Japan Stocks v4.66 (Nov-03-2024)

Not present Present Preferred

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

38. LCODLINGPAC [Longfin codling Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
39. LHAIRTSOJECS [Largehead hairtail Sea of Japan and East China	TB SSB	ER F	TB SSB	ER F
Sea]				
40. LJOBOKWI [Lavender jobfish Okinawa Islands]	TB SSB	ER F	TB SSB	ER F
41. OFLOUNECS [Japanese flounder East China Sea]	TB SSB	ER F	TB SSB	ER F
42. OFLOUNNSJ [Japanese flounder Sea of Japan North]	TB SSB	ER F	TB SSB	ER F
43. OFLOUNPAC [Japanese flounder Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
44. OFLOUNSETO [Japanese flounder Inland Sea of Japan]	TB SSB	ER F	TB SSB	ER F
45. PCODHOKK [Pacific cod Hokkaido]	TB SSB	ER F	TB SSB	ER F
46. PCODNPAC [Pacific cod North Pacific]	TB SSB	ER F	TB SSB	ER F
47. PCODSOJ [Pacific cod Sea of Japan]	TB SSB	ER F	TB SSB	ER F
48. PHFLOUNNHOKK [Pointhead flounder North coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
49. PHFLOUNSOJ [Pointhead flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
50. PILCHPJPN [Japanese sardine Pacific Coast of Japan]	TB SSB	ER F	TB SSB	ER F
51. PILCHTSST [Japanese sardine Tsushima Strait]	TB SSB	ER F	TB SSB	ER F
52. PSANDLIMKB [Pacific sandlance Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
53. PSLANCESYS [Pacific sand lance Souya Strait]	TB SSB	ER F	TB SSB	ER F
54. PSLANDLSETOE [Pacific sandlance Inland Sea of Japan (East)]	TB SSB	ER F	TB SSB	ER F
55. RBRMECS [Red seabream East China Sea]	TB SSB	ER F	TB SSB	ER F
56. RBRMSETOE [Red seabream Inland Sea of Japan (East)]	TB SSB	ER F	TB SSB	ER F
57. RBRMSETOW [Red seabream Inland Sea of Japan (West)]	TB SSB	ER F	TB SSB	ER F
58. RHERRPAC [Round herring Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
59. RHERRTSST [Round herring Tsushima Strait]	TB SSB	ER F	TB SSB	ER F
60. RSFLOUNSOJ [Round nose flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
61. RSSOLENPAC [Roughscale sole North Pacific]	TB SSB	ER F	TB SSB	ER F
62. SAURNWPAC [Pacific saury Northwest Pacific]	TB SSB	ER F	TB SSB	ER F
63. SHAKOIMKB [Shako Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
64. SNOWCRABESJ [Snow crab Sea of Japan East]	TB SSB	ER F	TB SSB	ER F
65. SNOWCRABHOKK [Snow crab Hokkaido]	TB SSB	ER F	TB SSB	ER F
66. SNOWCRABNPAC [Snow crab North Pacific]	TB SSB	ER F	TB SSB	ER F
67. SNOWCRABOKS [Snow crab Okhotsk Sea]	TB SSB	ER F	TB SSB	ER F
68. SNOWCRABWSJ [Snow crab Sea of Japan West]	TB SSB	ER F	TB SSB	ER F
69. SPANMACKECS [Japanese Spanish mackerel East China Sea]	TB SSB	ER F	TB SSB	ER F
70. SPANMACKSETO [Japanese Spanish mackerel Inland Sea of	TB SSB	ER F	TB SSB	ER F
Japan]	. 2 002		.2 002	
71. SPSQUIDPAC [Spear squid Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
72. SPSQUIDTSSTWC [Spear squid Tsushima warm current]	TB SSB	ER F	TB SSB	ER F
73. SSANDNSJ [Sailfin sandfish Sea of Japan North]	TB SSB	ER F	TB SSB	ER F
74. SSANDWSJ [Sailfin sandfish Sea of Japan West]	TB SSB	ER F	TB SSB	ER F
75. STSQUIDSOJECS [Swordtip squid Sea of Japan and East China	TB SSB	ER F	TB SSB	ER F
Sea]	.5 005		1.5 005	
76. WLFLOUNNPAC [Willowy flounder North Pacific]	TB SSB	ER F	TB SSB	ER F
77. WSCONGIMKB [Whitespotted conger Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
78. YGSFISHNPAC [Yellow goosefish North Pacific]	TB SSB	ER F	TB SSB	ER F
79. YSFLOUNNHOKK [Yellow striped flounder North coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
80. YSFLOUNSOJ [Yellow striped flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
ou. Tot Loonood [Tollow Striped Hourider Ged of dapart]	ים ססם	<u> </u>	10 000	∠ 11.1

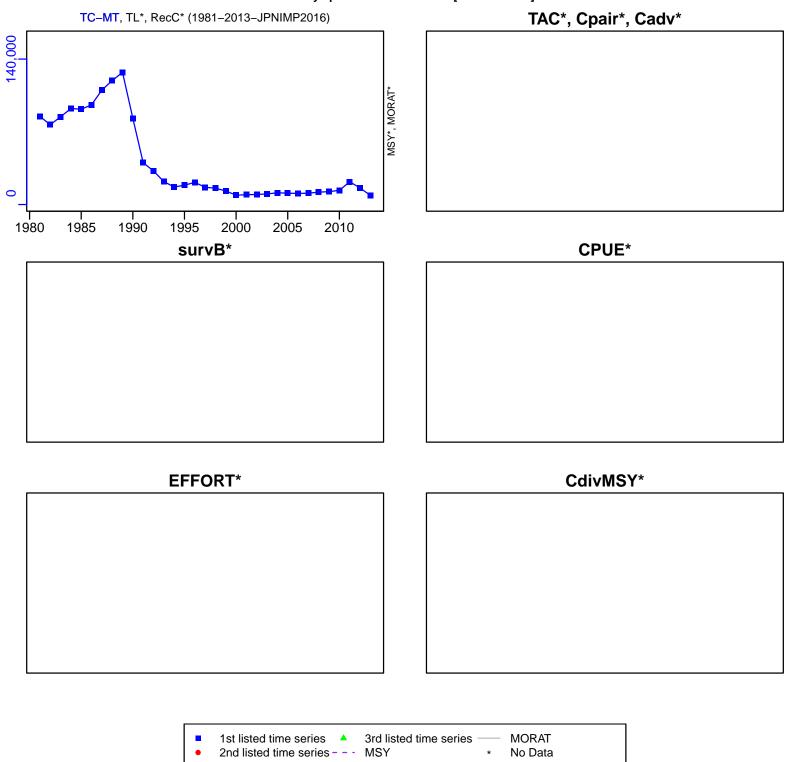
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	FAFRFJ-APOLLNEMS-1981-2013-JPNIMP2016		
Area Nemuro Strait			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

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

TB*	SSB*
TN *	F*
ER*	Recruits*
	I L
Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est

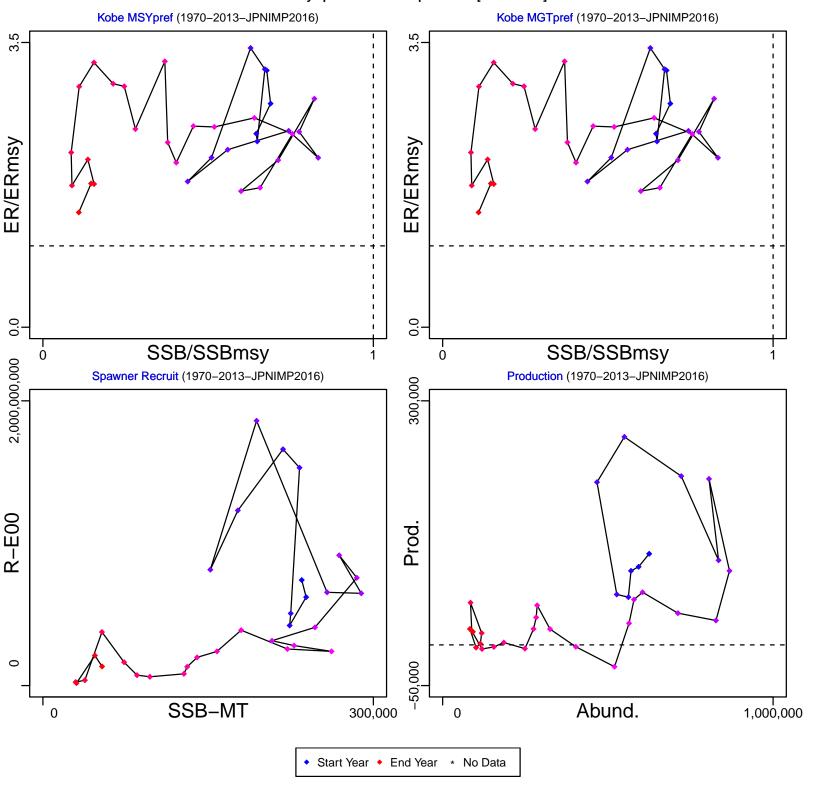


Walleye pollock Sea of Japan North [APOLLNSJ]

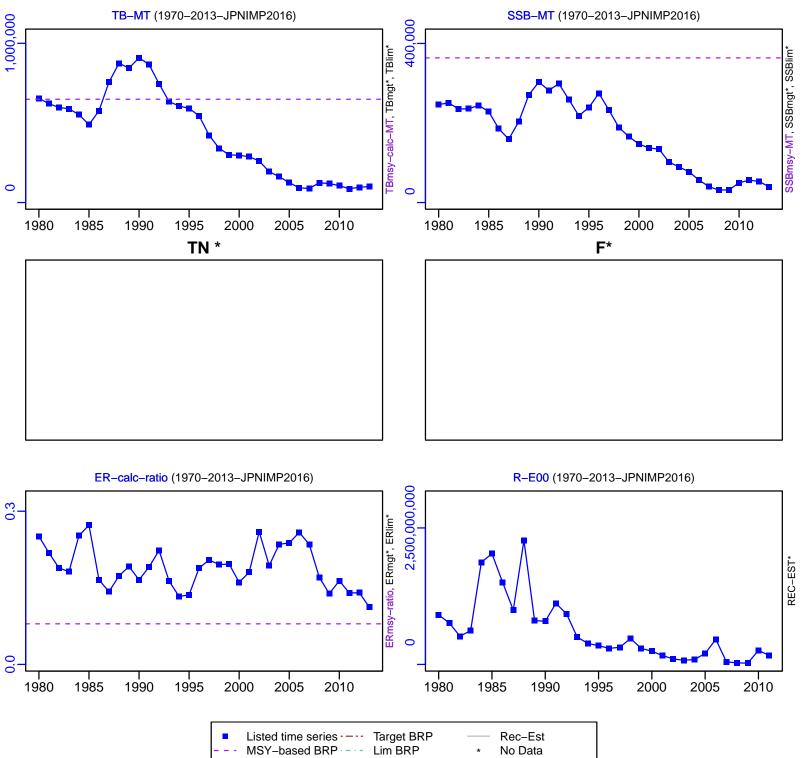
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	FAFRFJ-APOLLNSJ-1970-2013-JPNIMP2016		
Area	Sea of Japan North		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	619,267	
SSBmsy	SSBmsy-MT	2013	346,887	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.073	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	45,207	
М	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

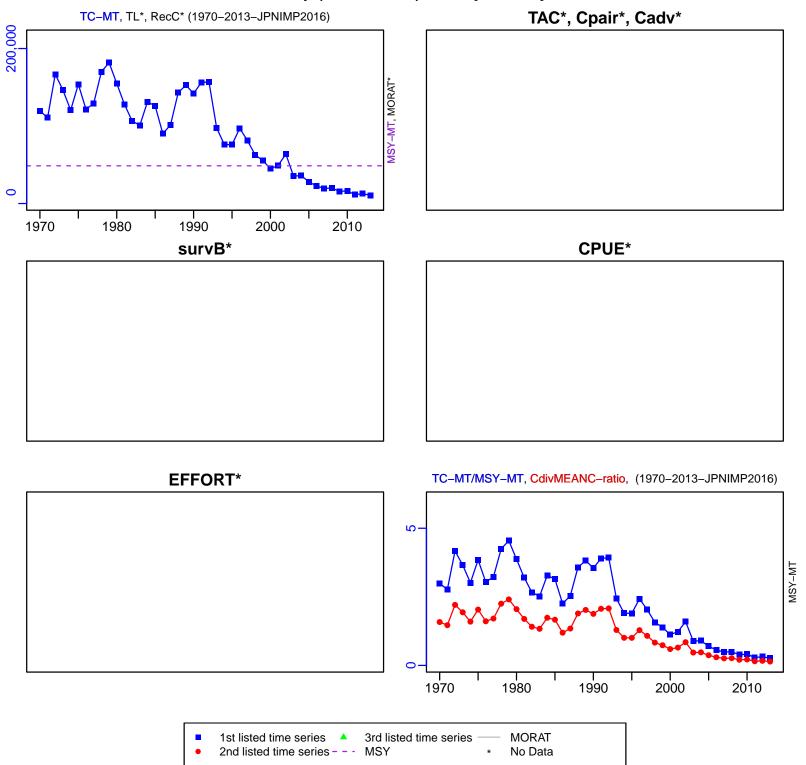
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	95,800	-	2
SSB	SSB-MT	2013	37,700	Both	4
TN	-	-	-	-	-
R	R-E00	2013	1.34×10^{8}	-	2
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.103	-	-
TC	TC-MT	2013	9870		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.155		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.109		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.411		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Walleye pollock Sea of Japan North [APOLLNSJ]



Walleye pollock Sea of Japan North [APOLLNSJ]



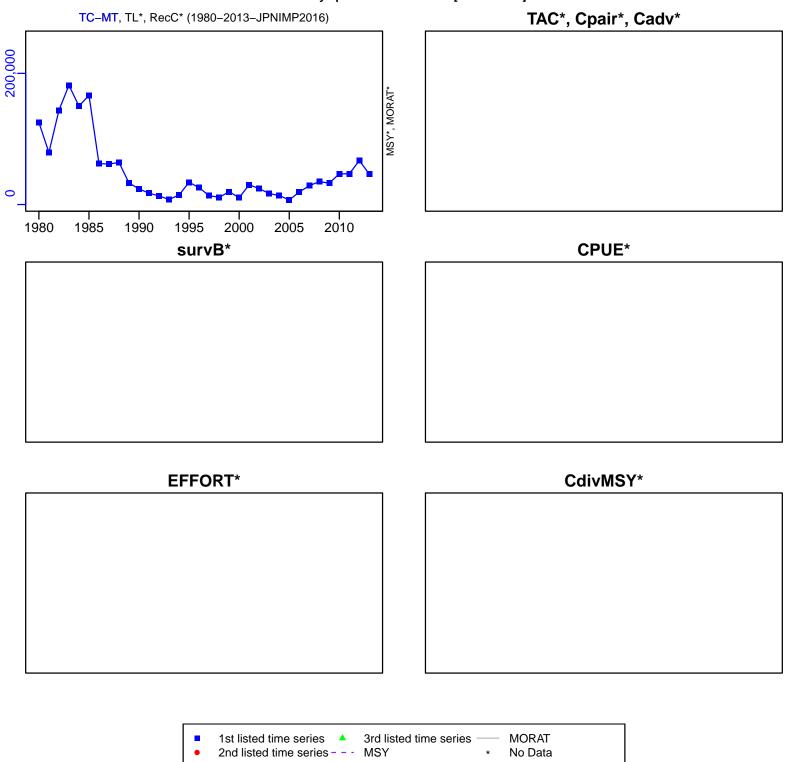
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	FAFRFJ-APOLLOKS-1980-2013-JPNIMP2016		
Area	Okhotsk Sea		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	0.25	
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*
L	
Spawner Recruit*	Production*

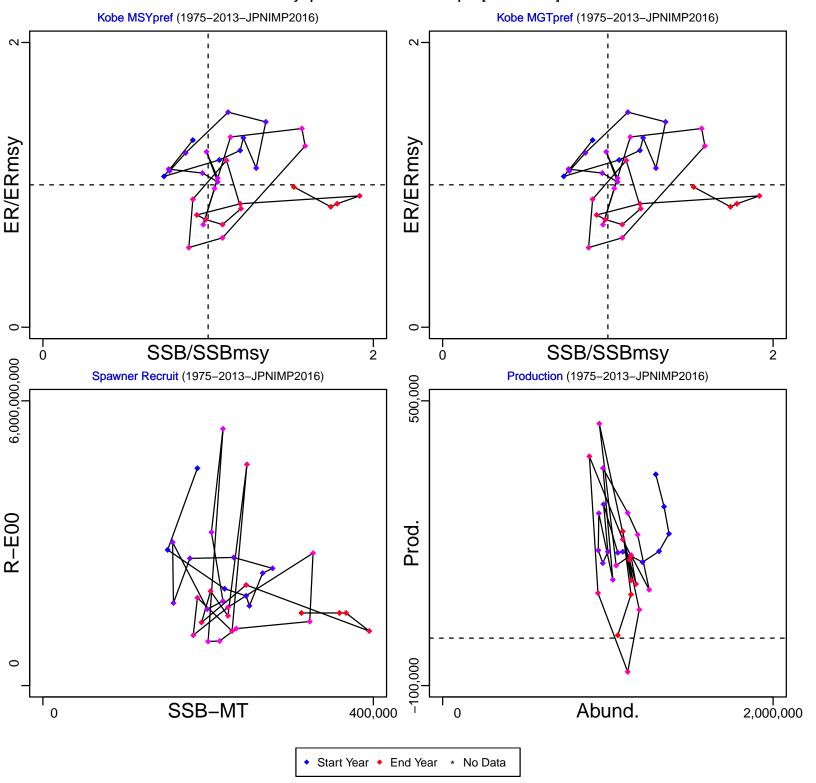
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series T	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

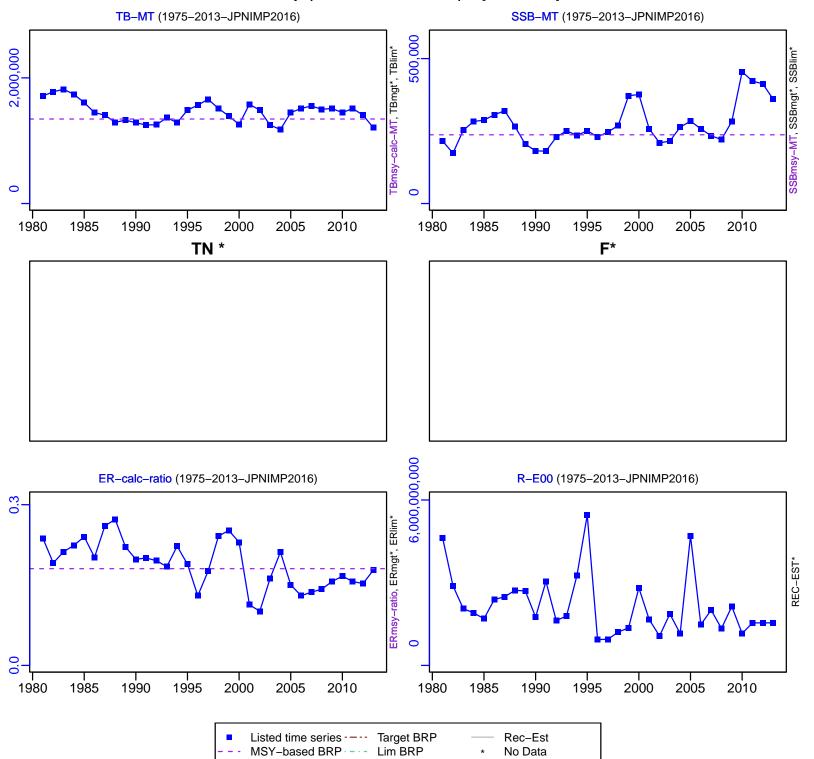


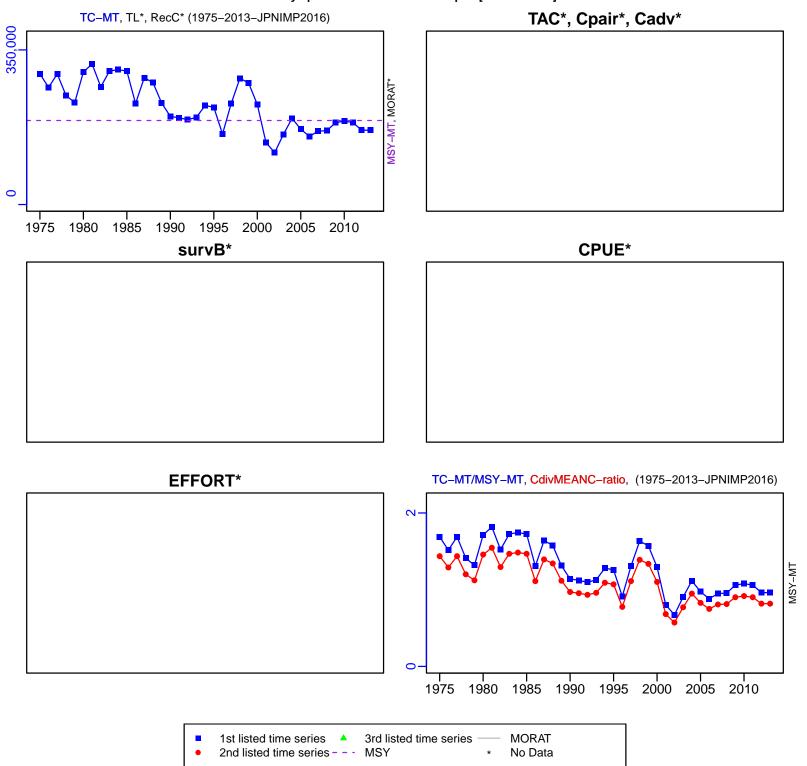
Metadata		
Scientific Name	Theragra chalcogramma	
Current Assess ID	FAFRFJ-APOLLPJPN-1975-2013-JPNIMP2016	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	1,013,493	
SSBmsy	SSBmsy-MT	2013	206,052	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.174	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	176,348	
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	910,000	-	0
SSB	SSB-MT	2013	313,000	Both	4
TN	-	-	-	-	-
R	R-E00	2013	1.53×10^{9}	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.171	-	-
TC	TC-MT	2013	156,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.898		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.519		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.985		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







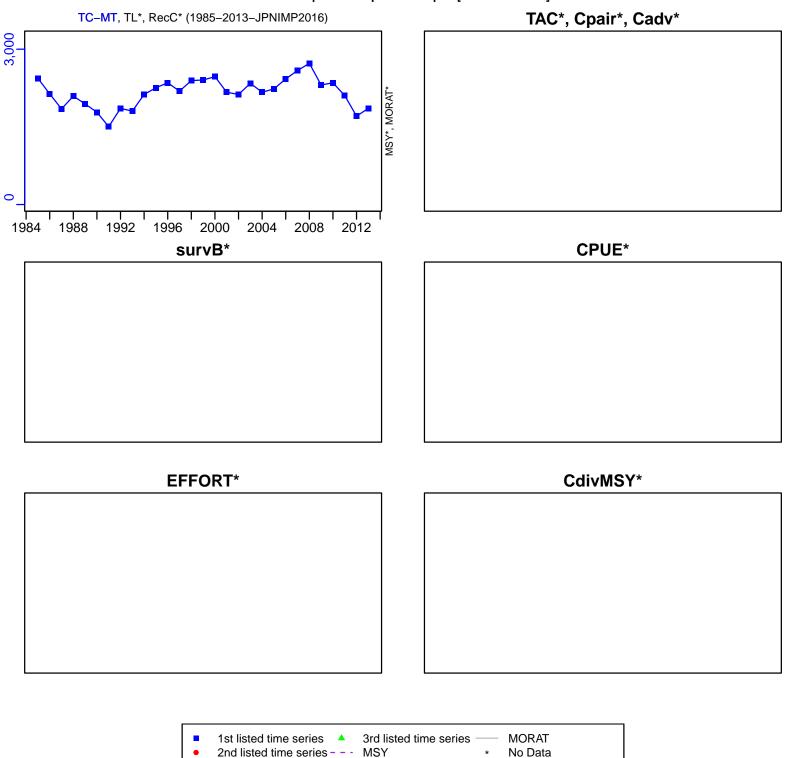
Metadata		
Scientific Name	Pandalus eous	
Current Assess ID	FAFRFJ-APSHRIMPSOJ-1985-2013-JPNIMP2016	
Area	Sea of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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	1730		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

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



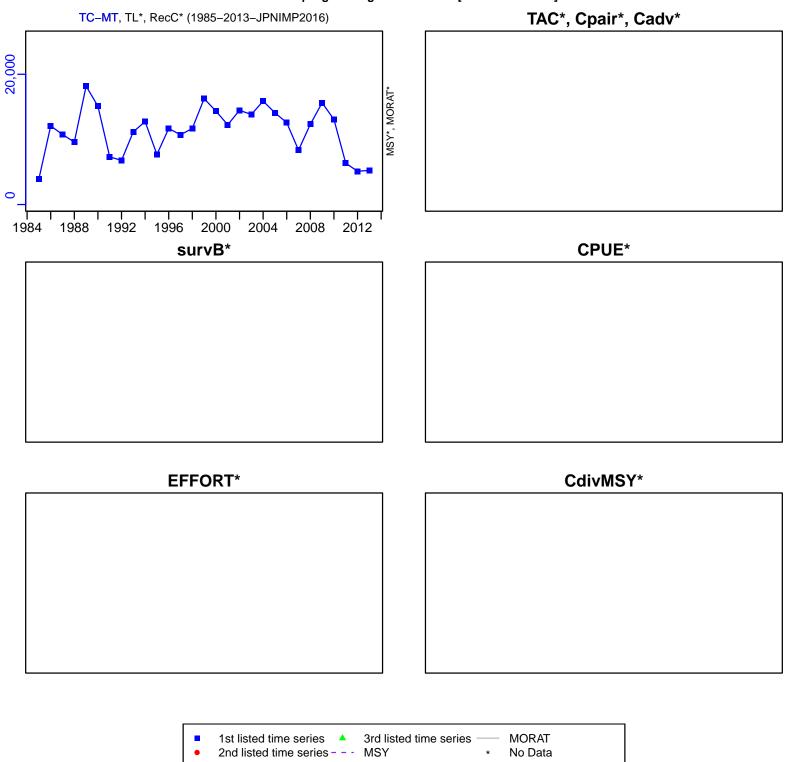
Metadata		
Scientific Name	Pleurogrammus azonus	
Current Assess ID	FAFRFJ-ARGREENNEMS-1985-2013-JPNIMP2016	
Area	Nemuro Strait	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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	4090		
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*	Production*

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



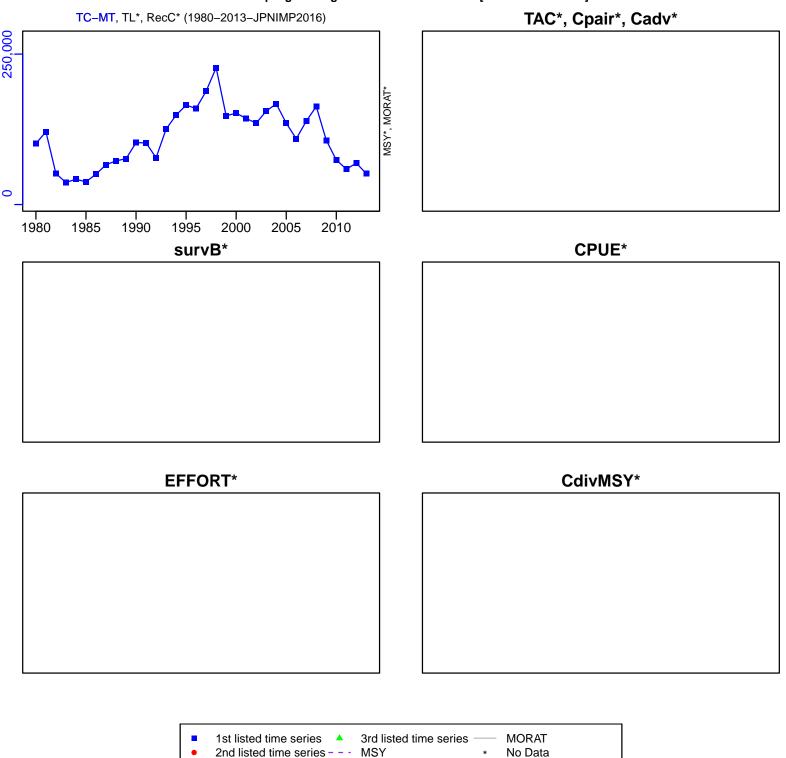
Metadata			
Scientific Name	Pleurogrammus azonus		
Current Assess ID	FAFRFJ-ARGREENNHOKK-1980-2013-JPNIMP2016		
Area North coast of Hokkaido			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

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	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*

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



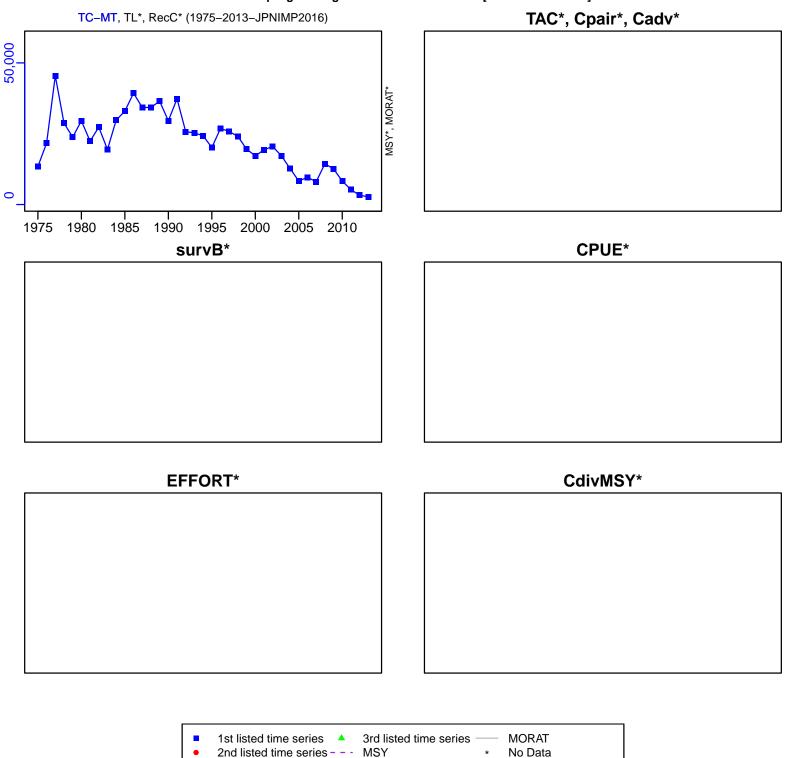
Metadata			
Scientific Name	Pleurogrammus azonus		
Current Assess ID	FAFRFJ-ARGREENSHOKK-1975-2013-JPNIMP2016		
Area South coast of Hokkaido			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

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	2300			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

TB*	SSB*
TN *	F*
FD.	D 14 . W
ER*	Recruits*
■ Listed time series Ta	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	FAFRFJ-ASCADECS-1973-2018-KUROTA
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

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			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	7727		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

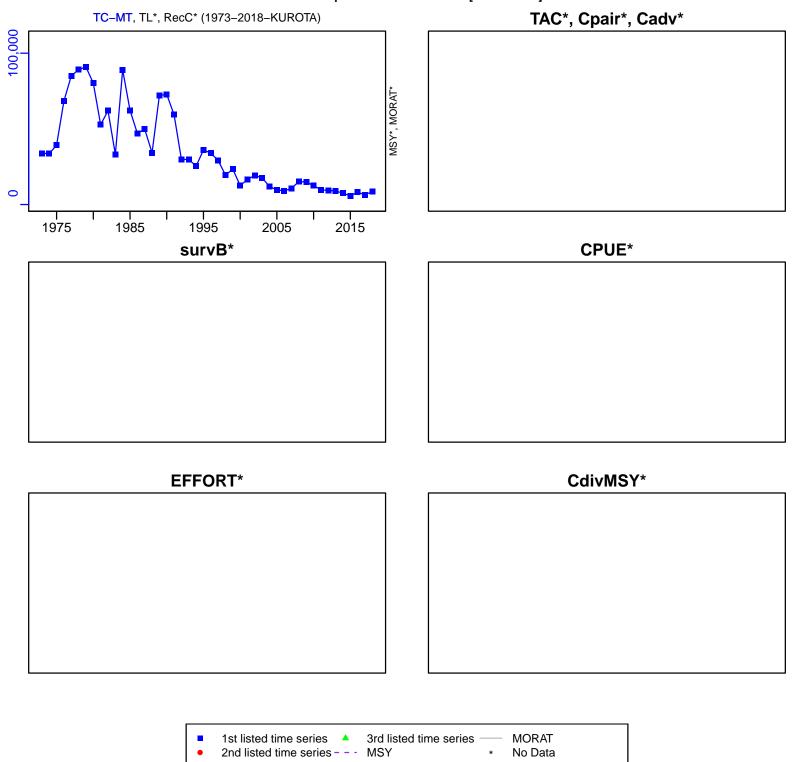
Amberstripe scad East China Sea [ASCADECS]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

Amberstripe scad East China Sea [ASCADECS]

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

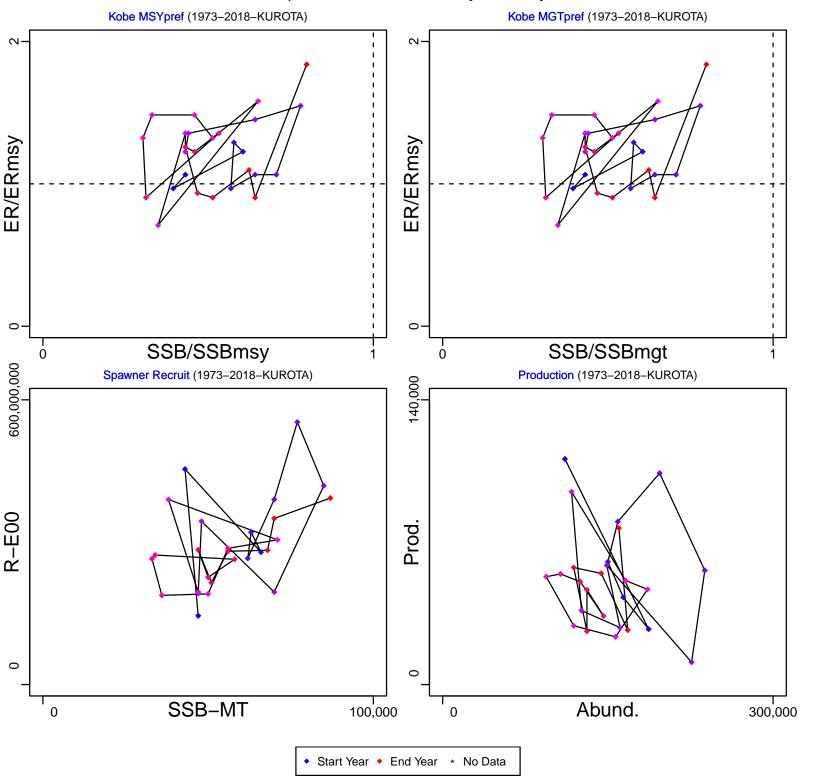
Amberstripe scad East China Sea [ASCADECS]

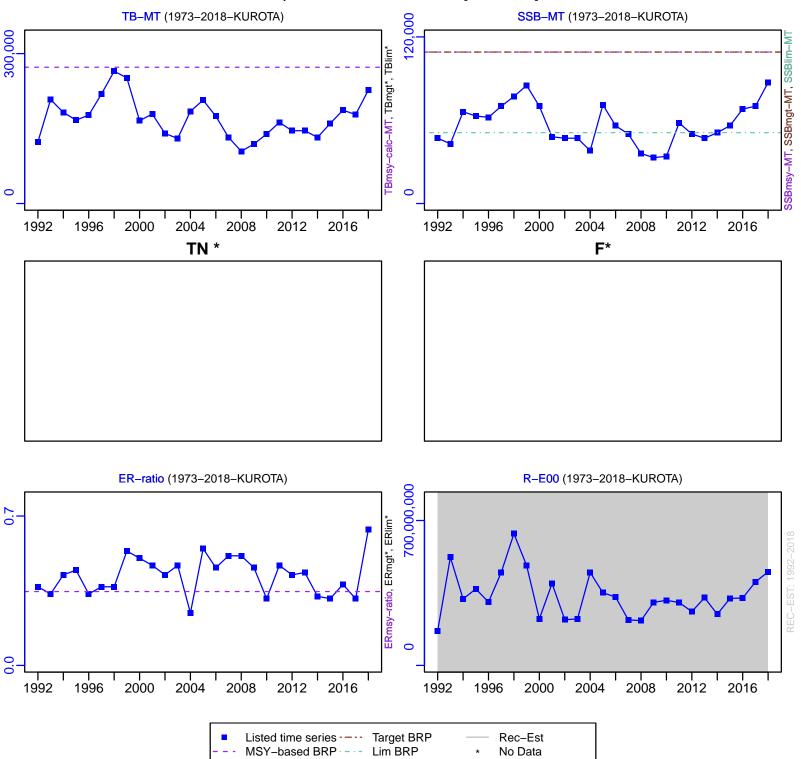


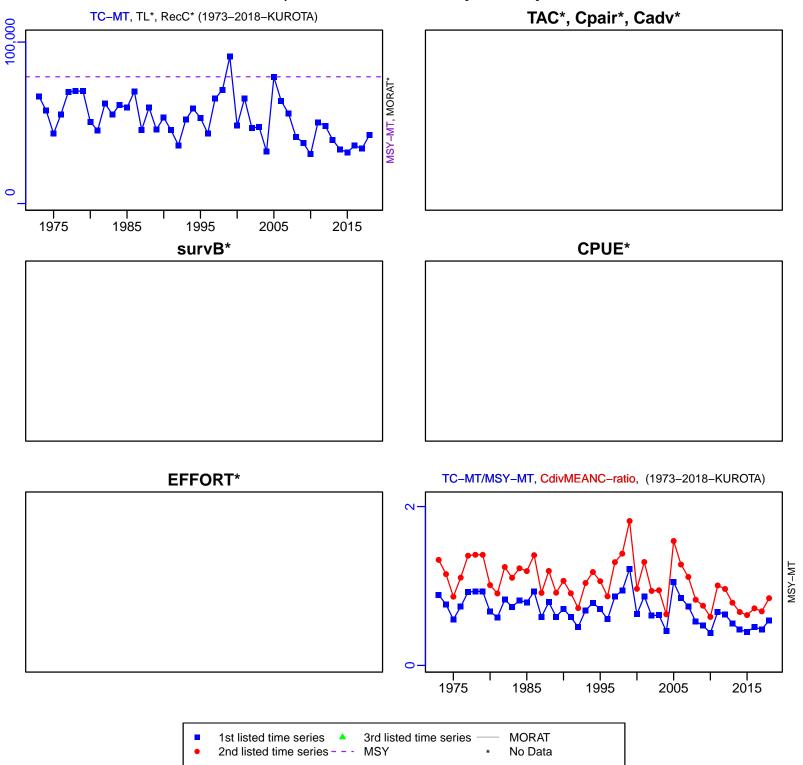
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID FAFRFJ-BMACKECS-1973-2018-KUROTA			
Area East China Sea			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2018, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2018	245,161	
SSBmsy	SSBmsy-MT	2018	109,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.31	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2018	109,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	76,000	
М	M-1/yr	2018	0.4	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2018	51,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	204,000	Both	0
SSB	SSB-MT	2018	87,000	Both	1
TN	-	-	-	-	-
R	R-E00	2018	3.93×10^{8}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.57	Both	-
TC	TC-MT	2018	40,966		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.832		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.798		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.839		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.798		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



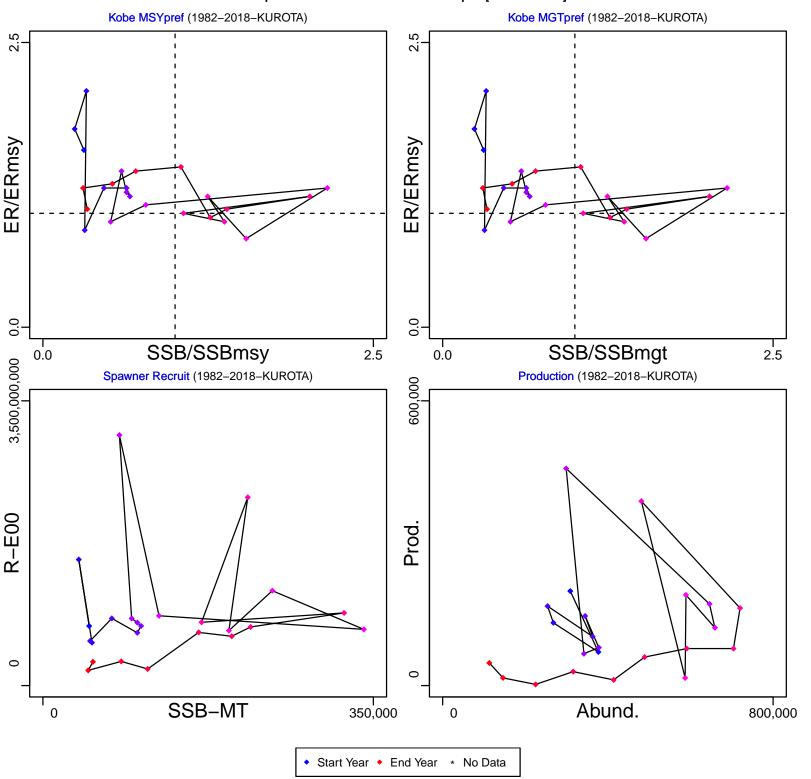


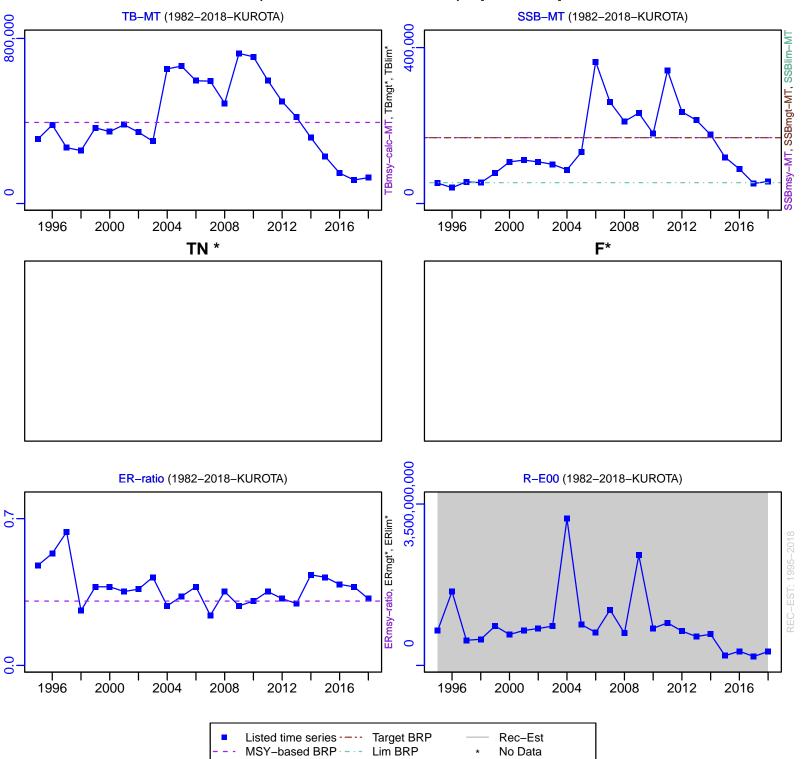


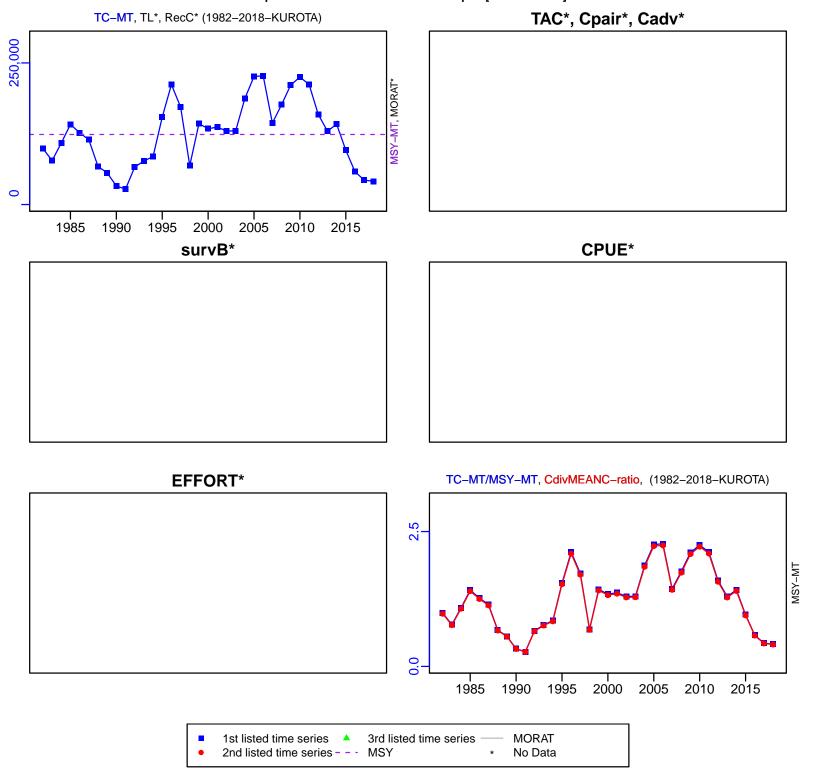
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID FAFRFJ-BMACKPJPN-1982-2018-KUROTA			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM 2013, 2018			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2018	388,889	
SSBmsy	SSBmsy-MT	2018	158,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.27	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2018	158,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2018	105,000	
М	M-1/yr	2018	0.4	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2018	50,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	124,000	Both	0
SSB	SSB-MT	2018	53,000	Both	2
TN	-	-	-	-	-
R	R-E00	2018	2.92×10^{8}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.28	Both	-
TC	TC-MT	2018	34,879		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.319		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.335		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.037		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.335		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





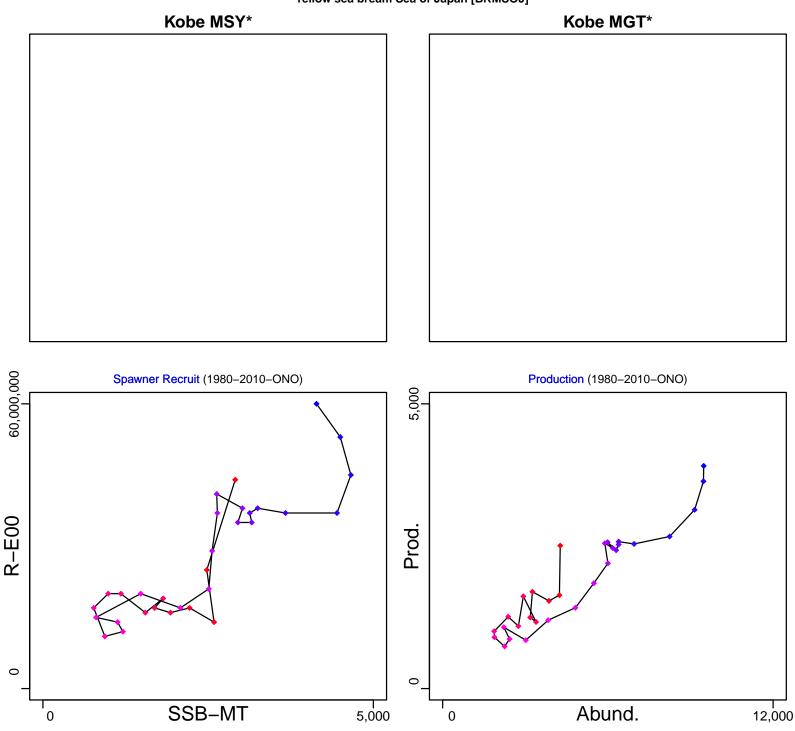


Yellow sea bream Sea of Japan [BRMSOJ]

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

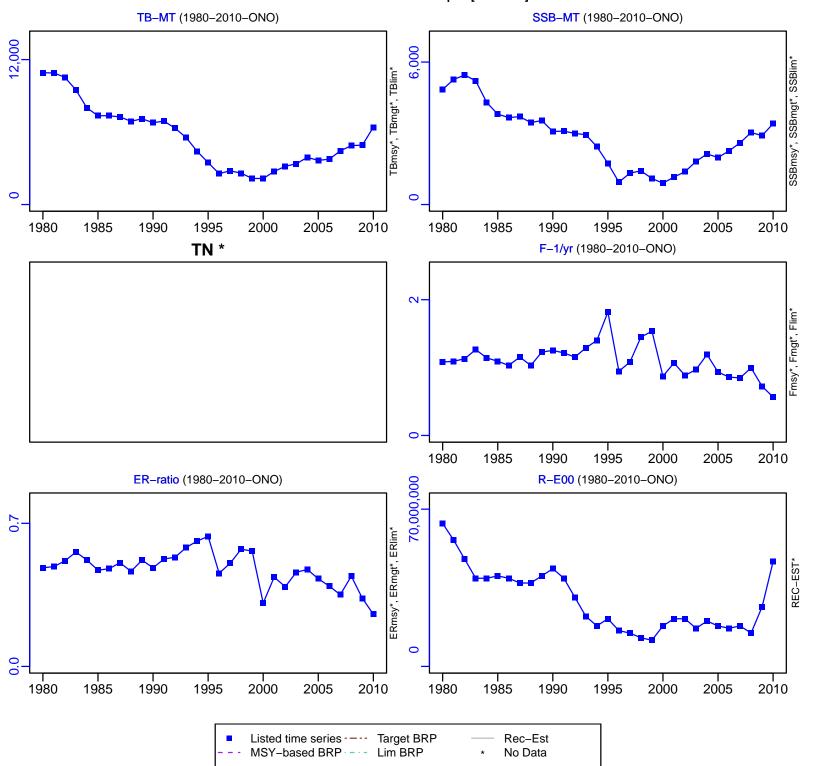
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	0.22	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	4.4×10^{7}	-	-
F	F-1/yr	2010	0.46	-	0 to 4
ER	ER-ratio	2010	0.219	-	-
TC	TC-MT	2013	4140		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

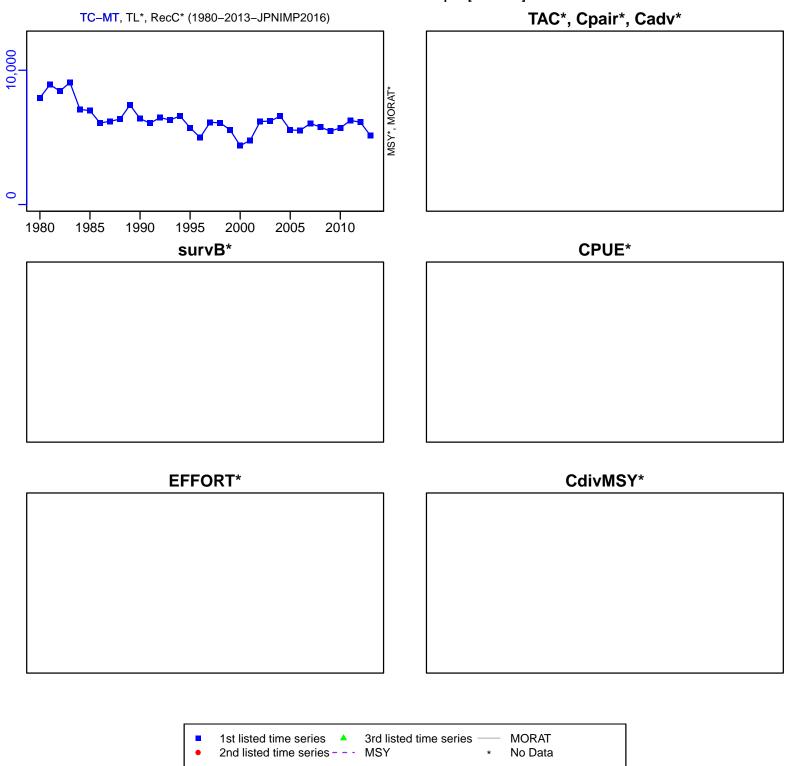


Start Year → End Year → No Data

Yellow sea bream Sea of Japan [BRMSOJ]



Yellow sea bream Sea of Japan [BRMSOJ]



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

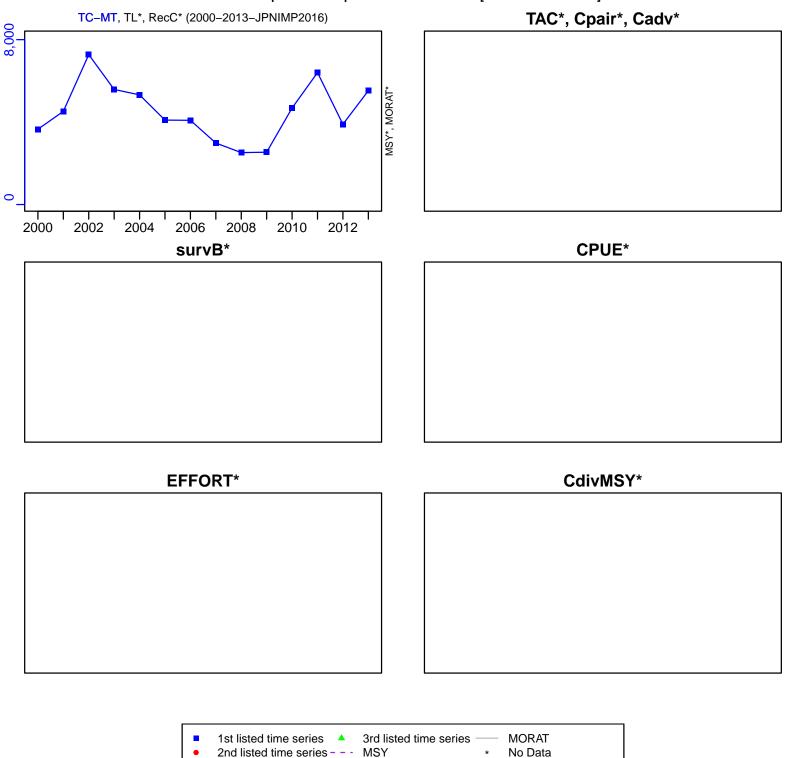
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	5460		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata		
Scientific Name	Chionoecetes japonicus	
Current Assess ID	FAFRFJ-BZCRABSOJ-1999-2013-JPNIMP2016	
Area	Sea of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

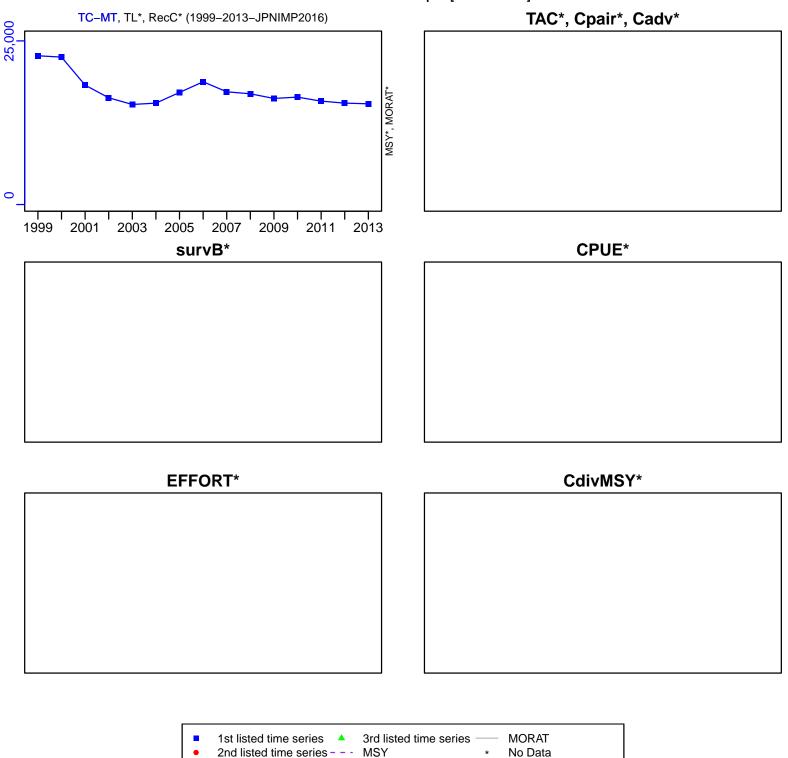
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
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*
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	Pristipomoides filamentosus
Current Assess ID	FAFRFJ-CJOBOKWI-1989-2013-JPNIMP2016
Area	Okinawa Islands
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

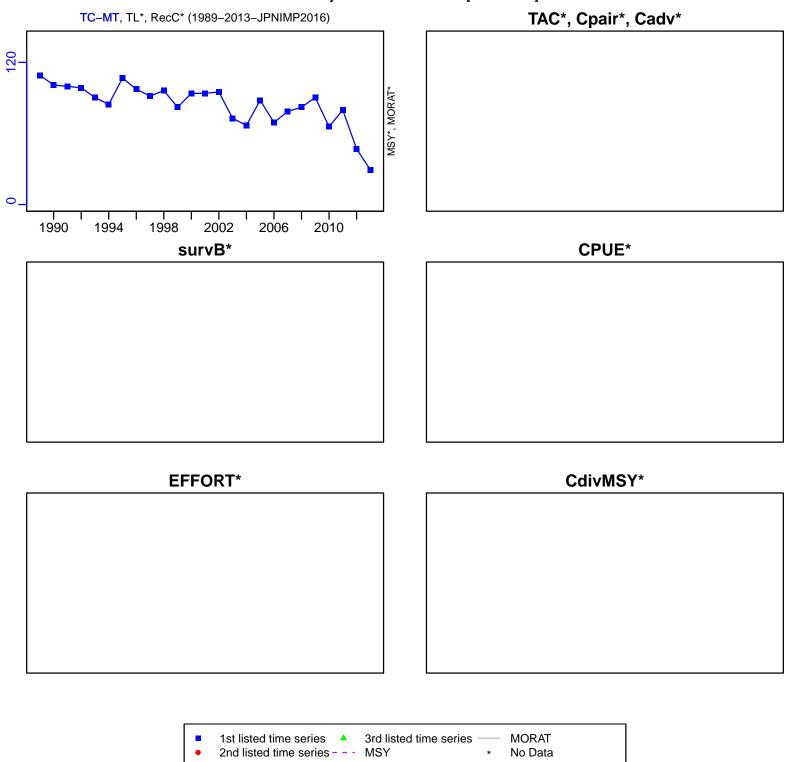
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	25		
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*	Production*

◆ Start Year ◆ End Year * No Data

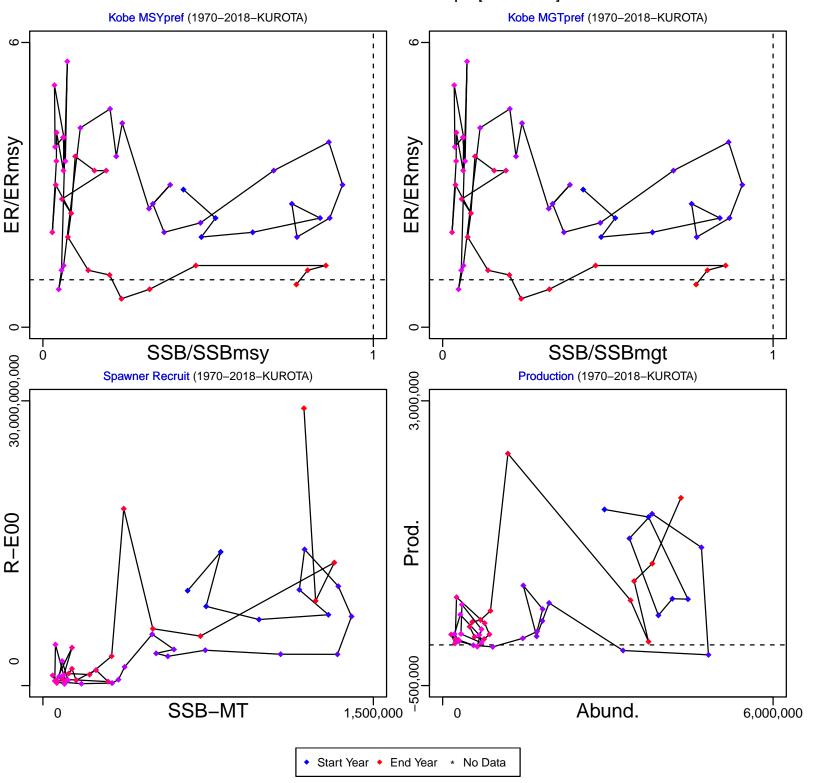
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series T	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

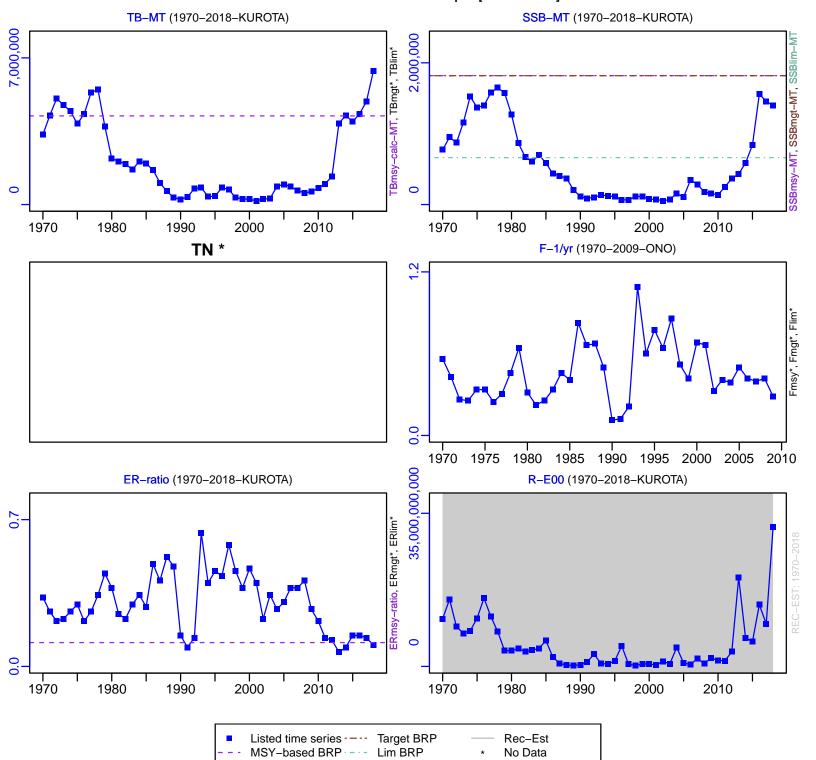


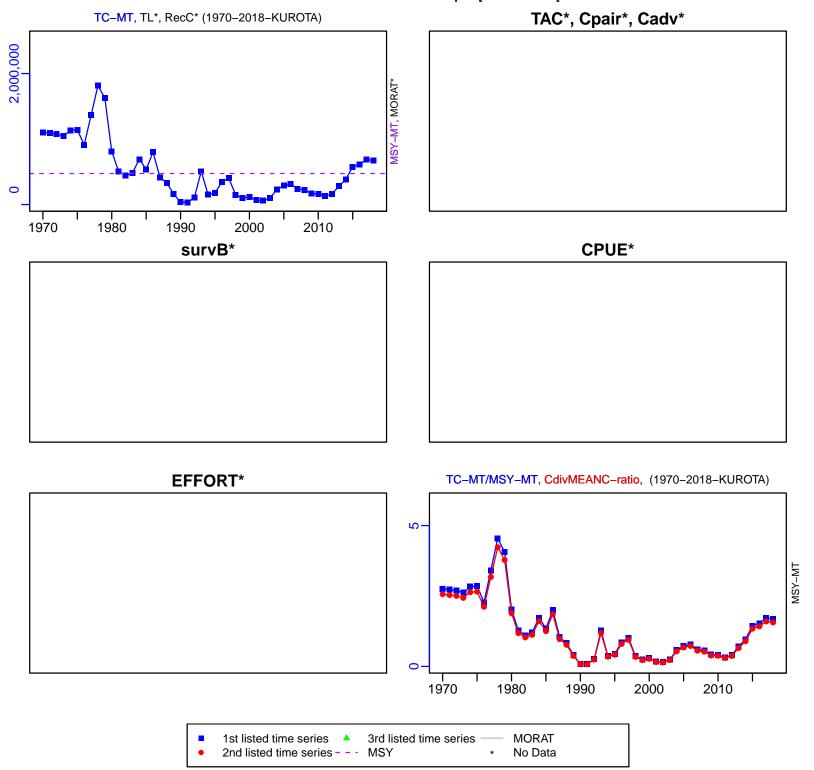
Metadata		
Scientific Name	Scomber japonicus	
Current Assess ID	FAFRFJ-CMACKPJPN-1970-2018-KUROTA	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2009, 2013, 2018	

	Reference Points		
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2018	3,720,000
SSBmsy	SSBmsy-MT	2018	1,545,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2018	0.1
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	1,545,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	372,000
М	M-1/yr	2018	0.4
TBlim	TBlim-MT	2009	450
SSBlim	SSBlim-MT	2018	562,000
Flim	-	-	-
ERlim	-	-	-

	Time	Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	5,595,000	Both	0
SSB	SSB-MT	2018	1,185,000	Both	2
TN	-	-	-	-	-
R	R-E00	2018	2.9212×10^{10}	Both	0
F	F-1/yr	2009	0.28	Both	0 to 5
ER	ER-ratio	2018	0.09	Both	-
TC	TC-MT	2018	526,573		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	1.504		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.767		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.9		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.767		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





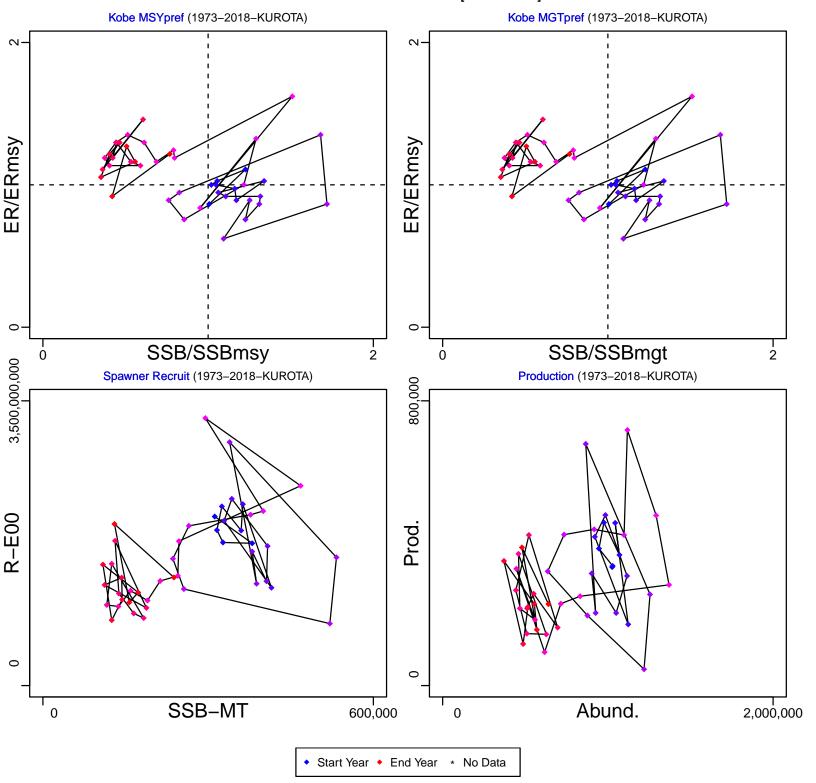


Chub mackerel Tsushima Strait [CMACKTSST]

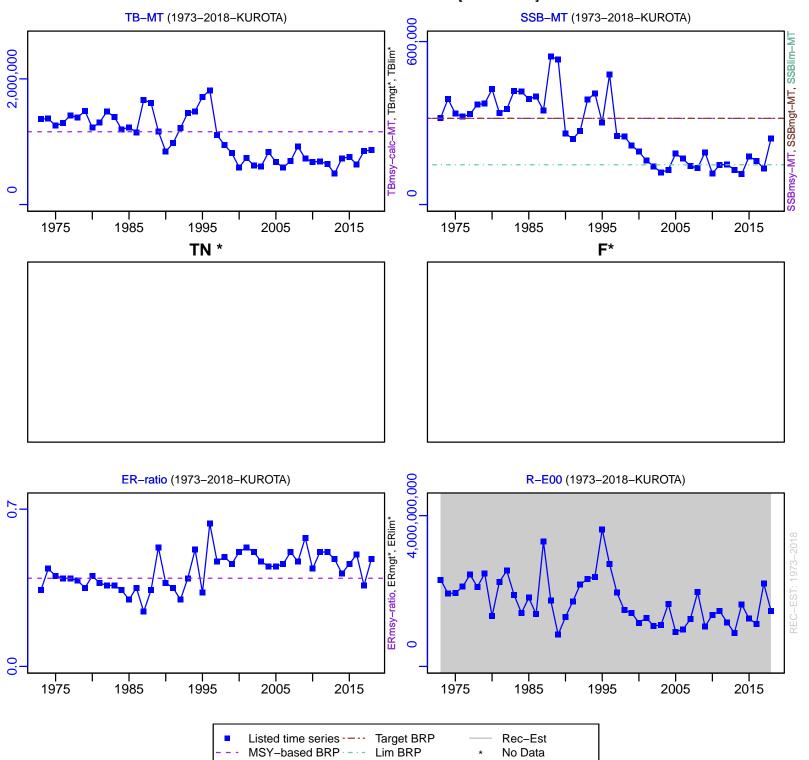
	Metadata
Scientific Name	Scomber japonicus
Current Assess ID	FAFRFJ-CMACKTSST-1973-2018-KUROTA
Area	Tsushima Strait
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2018	872,973
SSBmsy	SSBmsy-MT	2018	310,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2018	0.37
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	310,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	323,000
М	M-1/yr	2018	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	143,000
Flim	-	-	-
ERlim	-	-	-

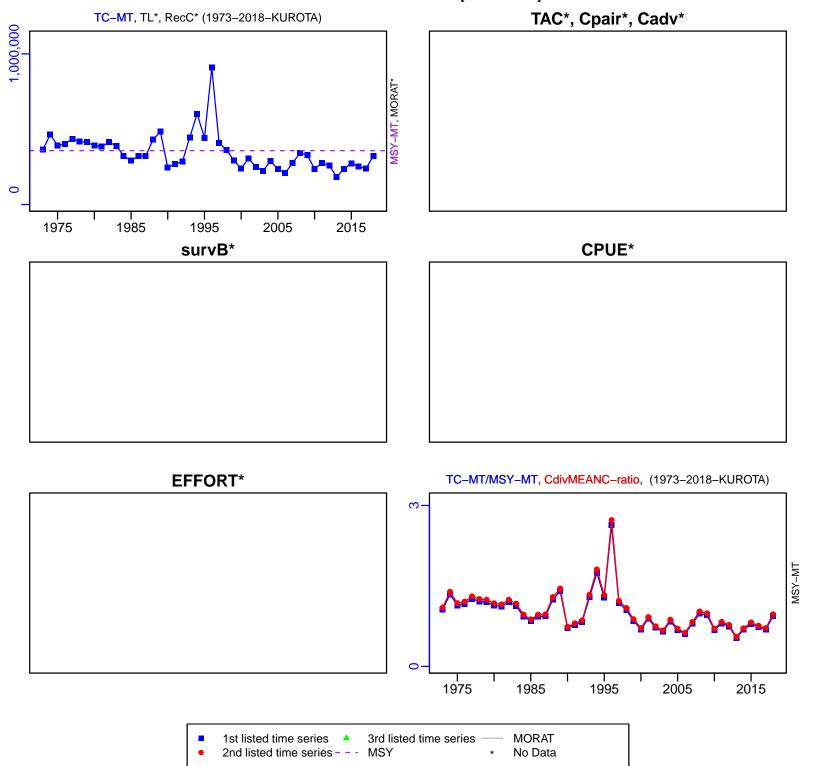
	Time S	Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	654,000	Both	0
SSB	SSB-MT	2018	238,000	Both	1
TN	-	-	-	-	-
R	R-E00	2018	1.329×10^{9}	Both	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.45	Both	-
TC	TC-MT	2018	292,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.749		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.768		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.216		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.768		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Chub mackerel Tsushima Strait [CMACKTSST]



Chub mackerel Tsushima Strait [CMACKTSST]



Deep sea smelt Pacific Ocean [DSSMELTPAC]

	Metadata
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAFRFJ-DSSMELTPAC-1980-2018-KUROTA
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

F	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	2018	552		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Deep sea smelt Pacific Ocean [DSSMELTPAC]

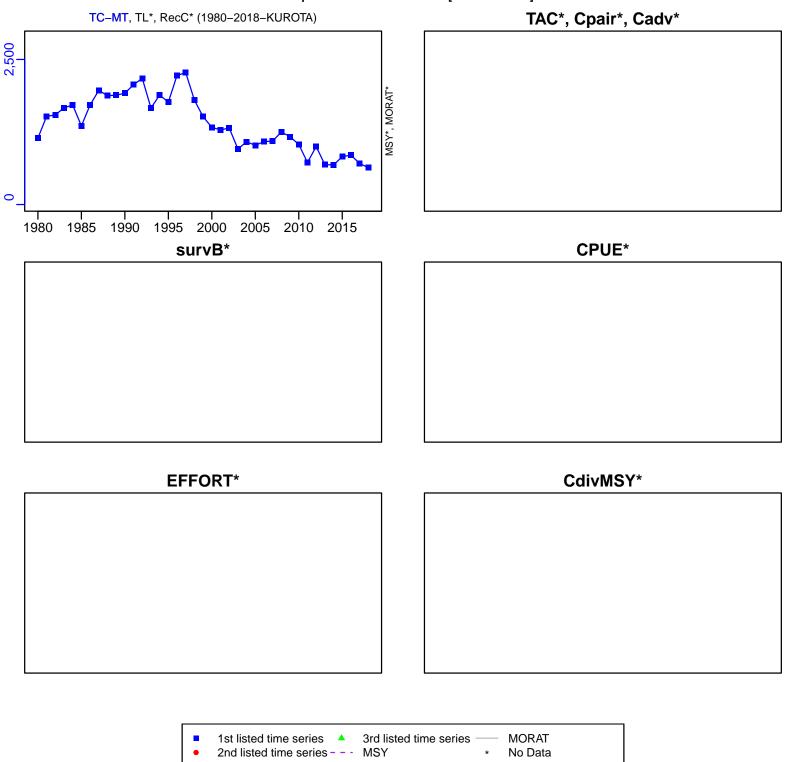
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Deep sea smelt Pacific Ocean [DSSMELTPAC]

TB*	SSB*
TN *	F*
ER*	Recruits*
	I L
Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est

Deep sea smelt Pacific Ocean [DSSMELTPAC]



Deep sea smelt Sea of Japan [DSSMELTSOJ]

Metadata	
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAFRFJ-DSSMELTSOJ-1975-2018-KUROTA
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

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	2018	2067		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

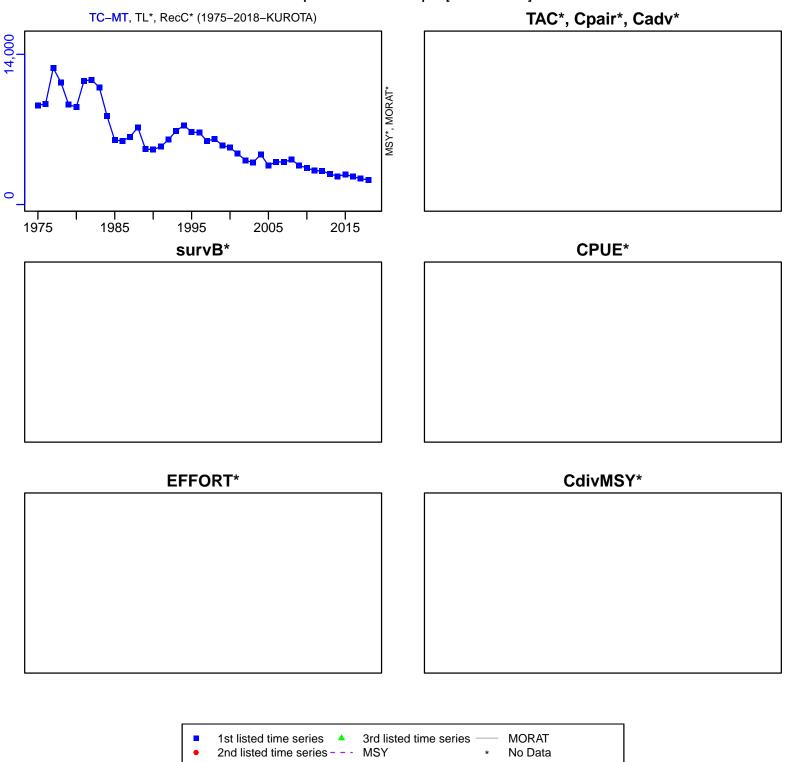
Deep sea smelt Sea of Japan [DSSMELTSOJ]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Deep sea smelt Sea of Japan [DSSMELTSOJ]

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



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

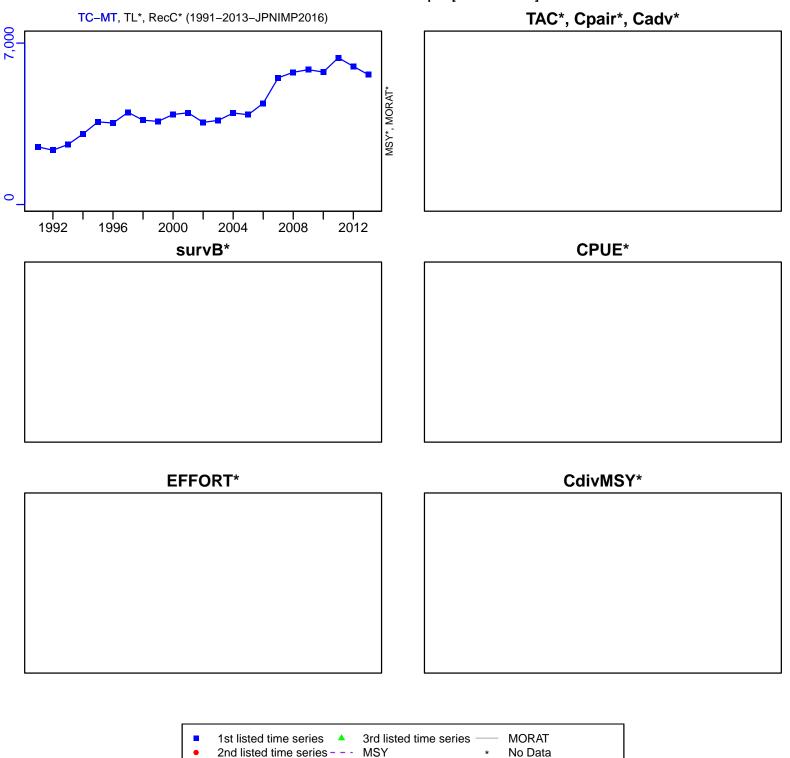
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*
Opawner Necruit	
Opawner Recruit	Troduction
Opawner Recruit	
Opawner rectuit	
Opawner recordit	

◆ Start Year ◆ End Year * No Data

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



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

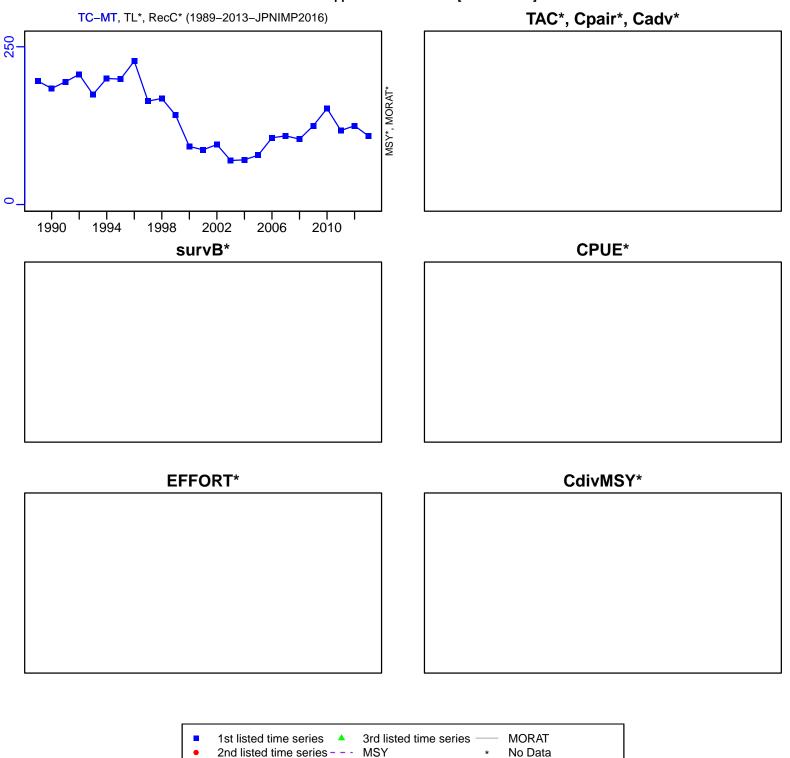
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J 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	FAFRFJ-HERRHOKK-1975-2018-KUROTA		
Area	Hokkaido		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2018		

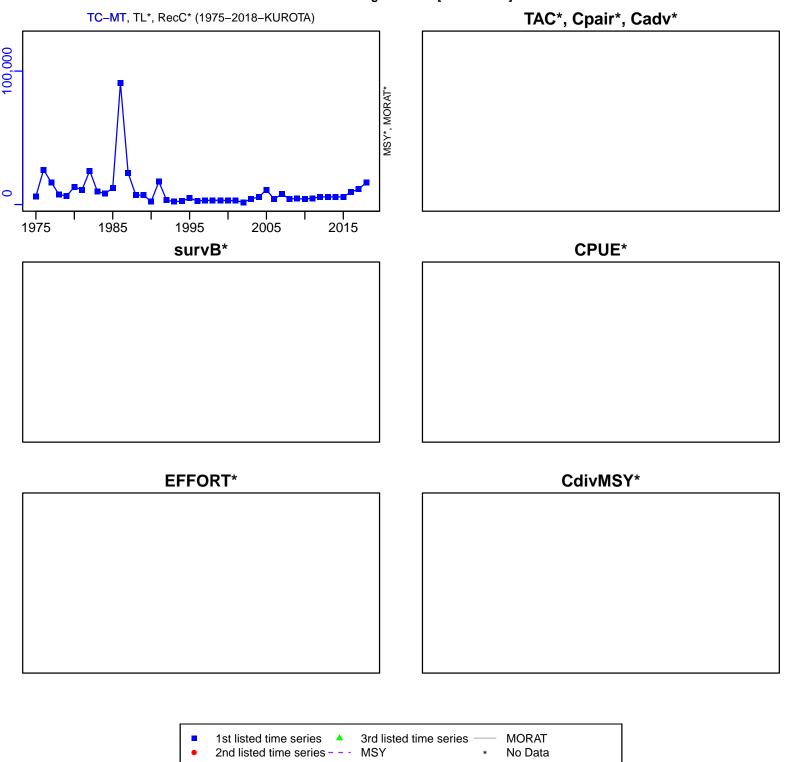
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	13,263		
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*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata			
Scientific Name	Branchiostegus japonicus		
Current Assess ID	FAFRFJ-HHTILEECS-1985-2013-JPNIMP2016		
Area	East China Sea		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

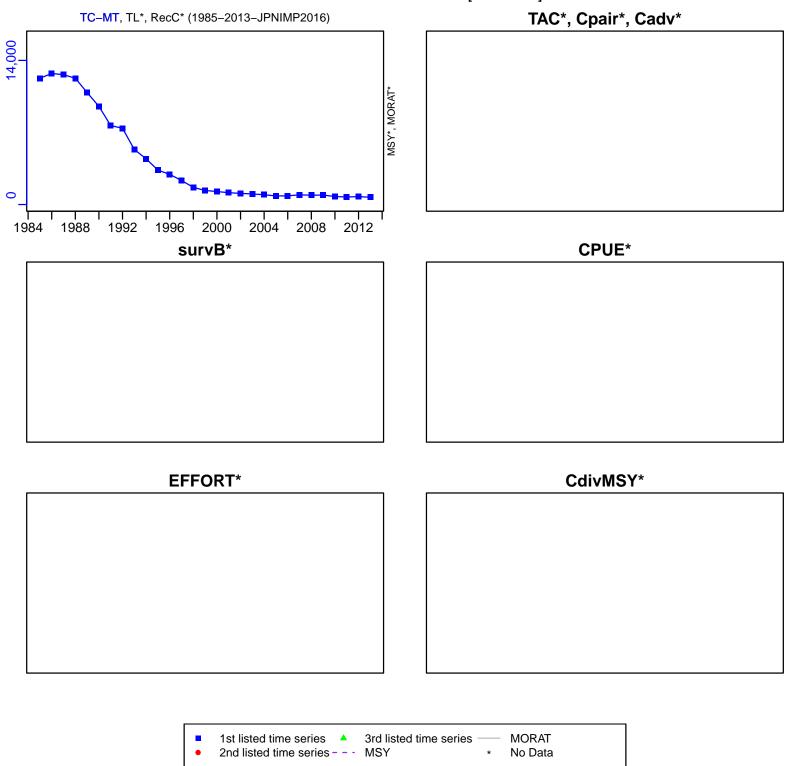
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	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*	Production*

◆ Start Year ◆ End Year * No Data

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

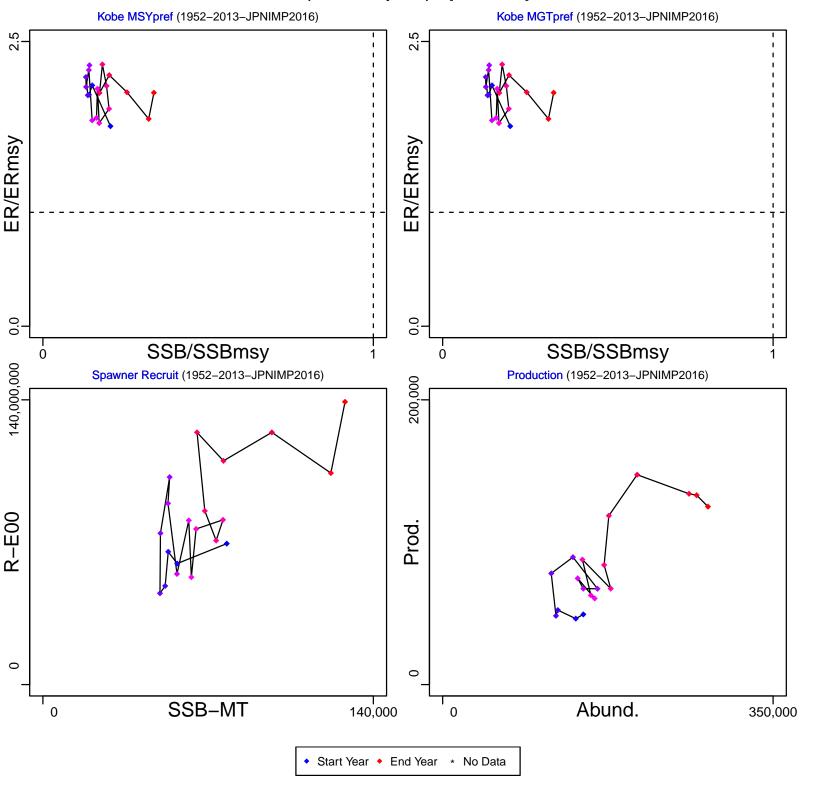


Japanese amberjack Japan [JAMBERJPN]

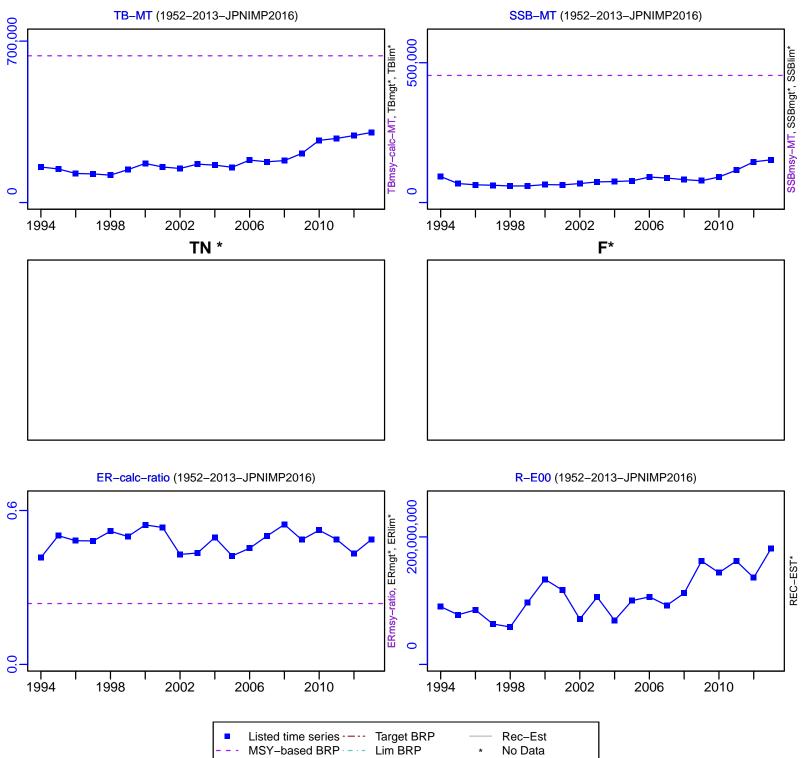
	Metadata
Scientific Name	Seriola quinqueradiata
Current Assess ID	FAFRFJ-JAMBERJPN-1952-2013-JPNIMP2016
Area	Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	615,892
SSBmsy	SSBmsy-MT	2013	381,043
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.219
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	134,880
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

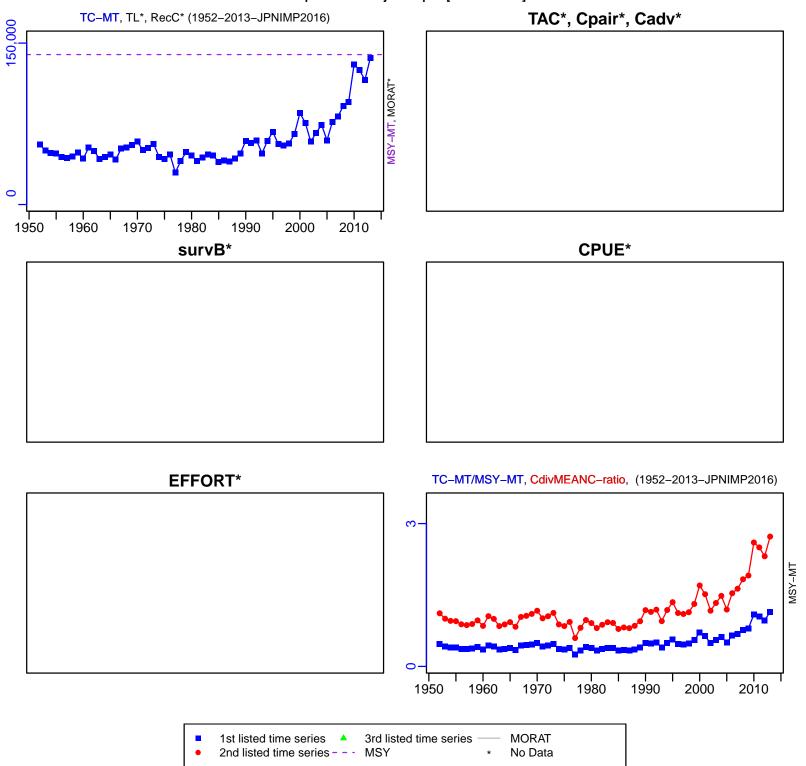
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	294,000	-	0
SSB	SSB-MT	2013	128,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1.39×10^{8}	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
TC	TC-MT	2013	132,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.477		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.336		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.05		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Japanese amberjack Japan [JAMBERJPN]



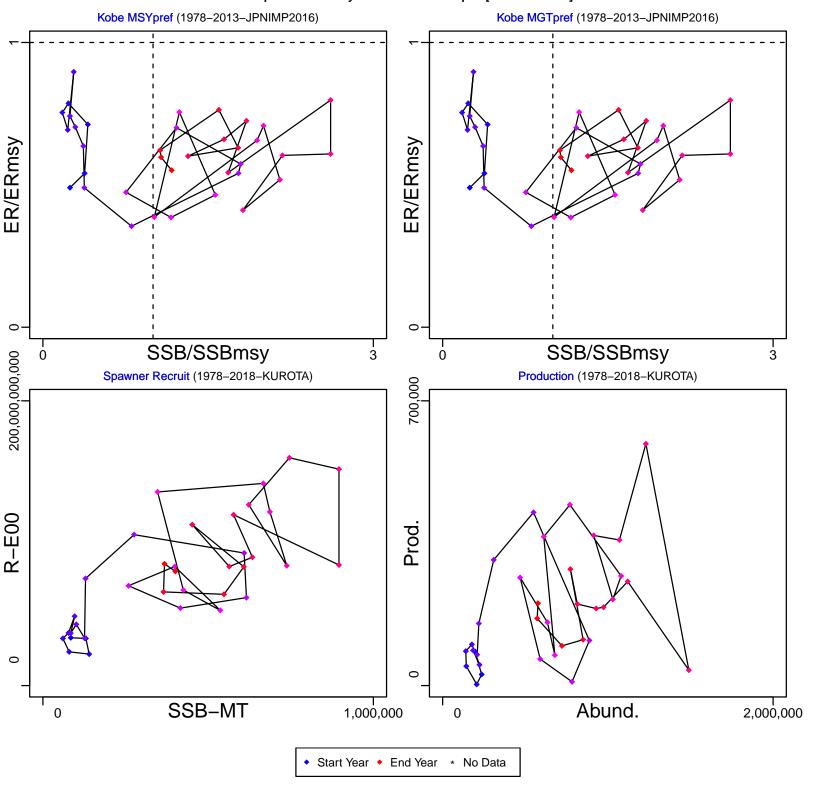
Japanese amberjack Japan [JAMBERJPN]

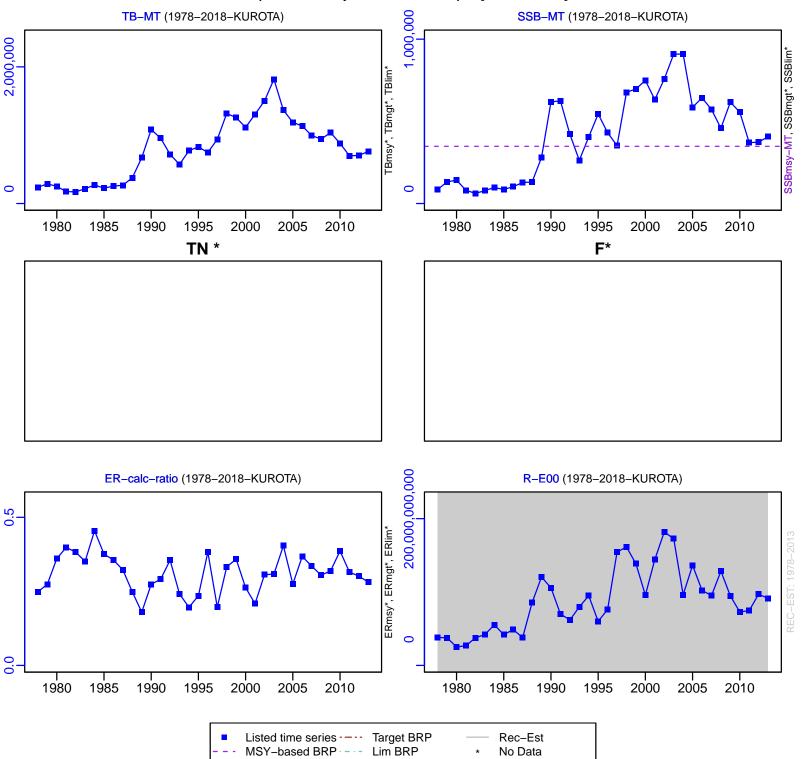


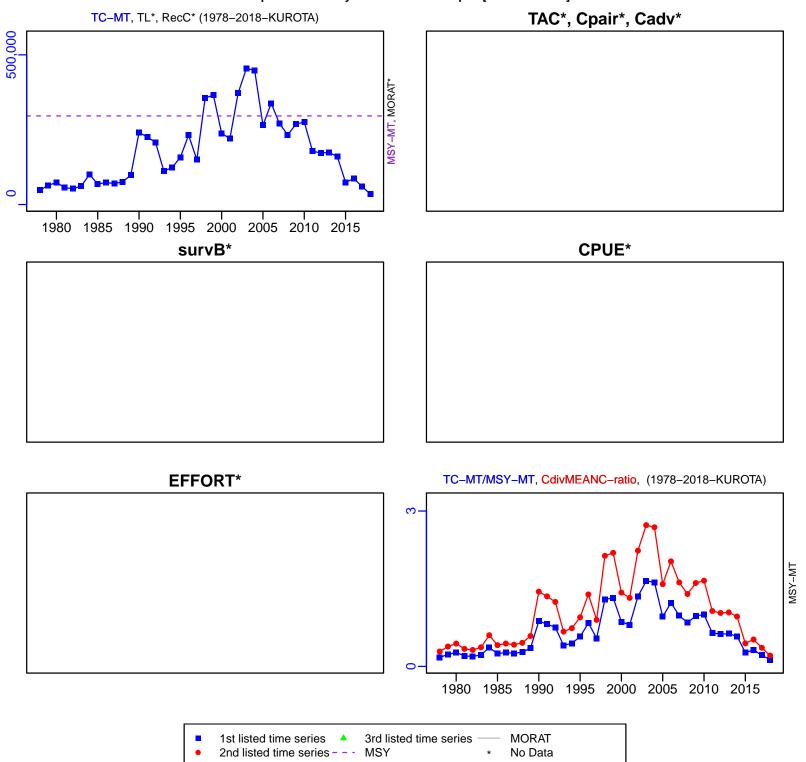
	Metadata
Scientific Name	Engraulis japonicus
Current Assess ID	FAFRFJ-JANCHOPJPN-1978-2018-KUROTA
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	590,244
SSBmsy	SSBmsy-MT	2018	343,019
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.45
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	265,610
M	M-1/yr	2018	1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	625,000	-	0
SSB	SSB-MT	2018	401,000	-	1
TN	-	-	-	-	-
R	R-E00	2018	8.02×10^{10}	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.25	-	-
TC	TC-MT	2018	31,250		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	1.059		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.169		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.551		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







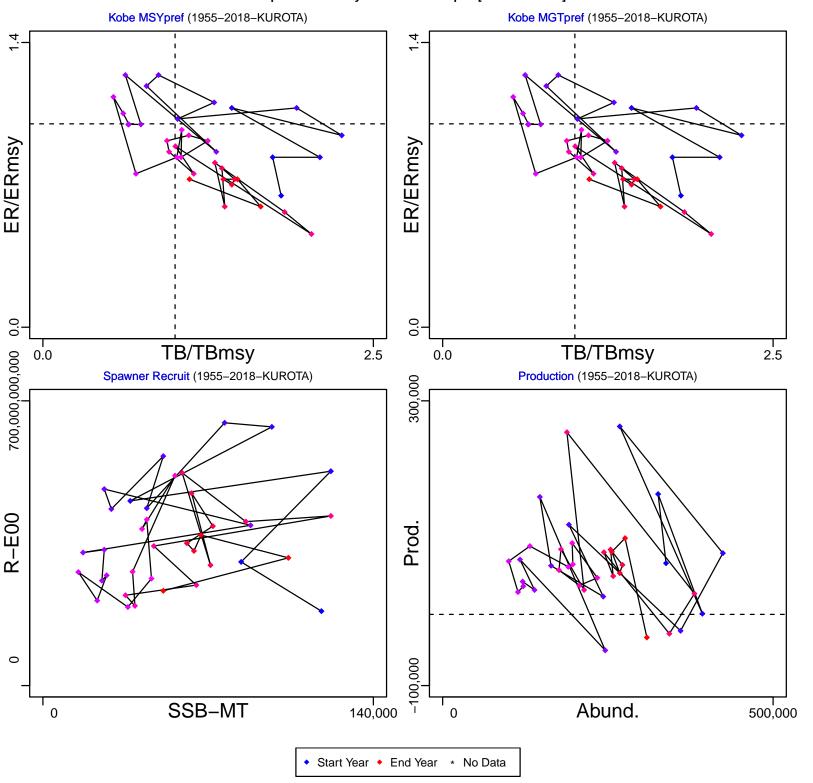
Japanese anchovy Inland Sea of Japan [JANCHOSETO]

	Metadata
Scientific Name	Engraulis japonicus
Current Assess ID	FAFRFJ-JANCHOSETO-1955-2018-KUROTA
Area	Inland Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

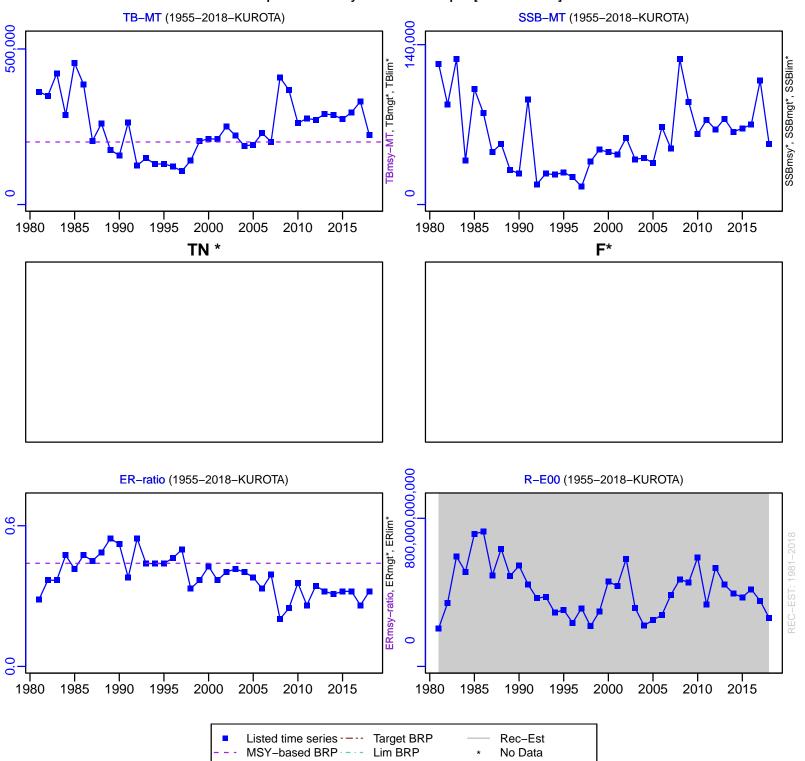
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2018	187,524
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2018	0.371
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2018	69,571
M	M-1/yr	2018	2.41
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

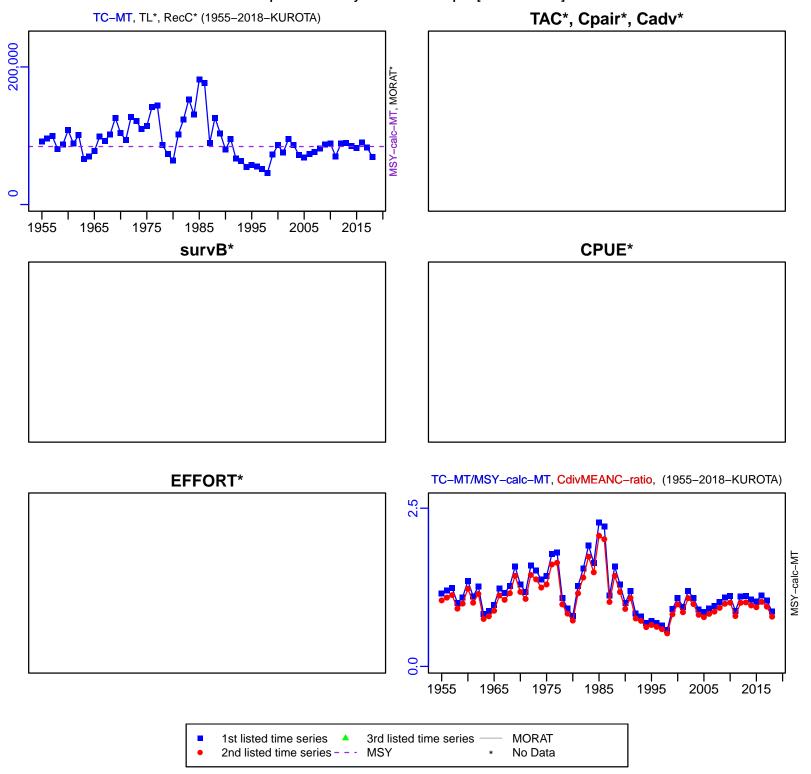
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	208,000	-	0
SSB	SSB-MT	2018	51,000	-	0.4166667
TN	-	-	-	-	-
R	R-E00	2018	2.33×10^{11}	-	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.27	-	-
TC	TC-MT	2018	57,100		
TL	-	-	-]	
TB/TBmsy	TB-MT/TBmsy-MT	2018	1.109]	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.728		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese anchovy Inland Sea of Japan [JANCHOSETO]



Japanese anchovy Inland Sea of Japan [JANCHOSETO]





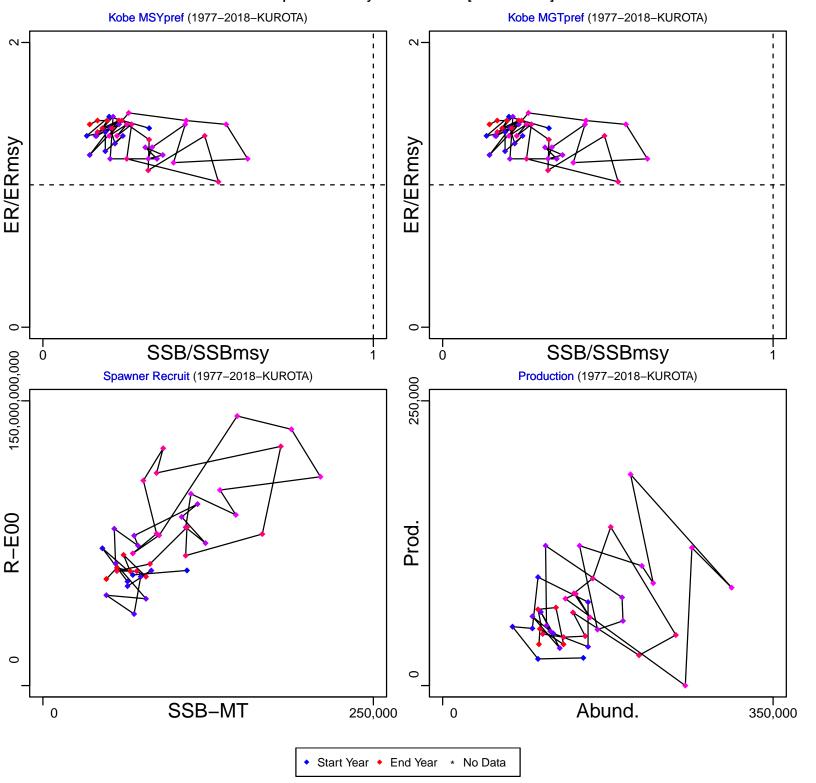
Japanese anchovy Tsushima Strait [JANCHOTSST]

	Metadata
Scientific Name	Engraulis japonicus
Current Assess ID	FAFRFJ-JANCHOTSST-1977-2018-KUROTA
Area	Tsushima Strait
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

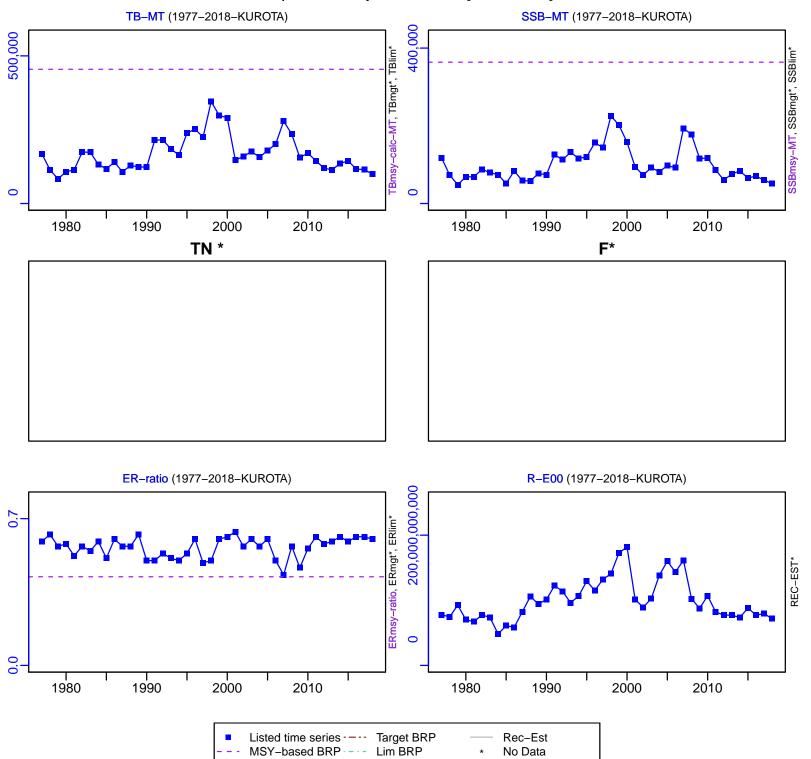
Reference Points						
Туре	ID	Asmt Year	r Value			
TBmsy	TBmsy-calc-MT	2018	402,460			
SSBmsy	SSBmsy-MT	2018	338,932			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2018	0.372			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2018	149,715			
М	M-1/yr	2018	1			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2018	88,000	Both	0		
SSB	SSB-MT	2018	48,000	Both	1		
TN	-	-	-	-	-		
R	R-E00	2018	5.6135×10^{10}	Both	0		
F	-	-	-	-	-		
ER	ER-ratio	2018	0.53	Both	-		
TC	TC-MT	2018	43,100				
TL	-	-	-				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.219				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.142				
F/Fmsy	-	-	-				
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.425				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

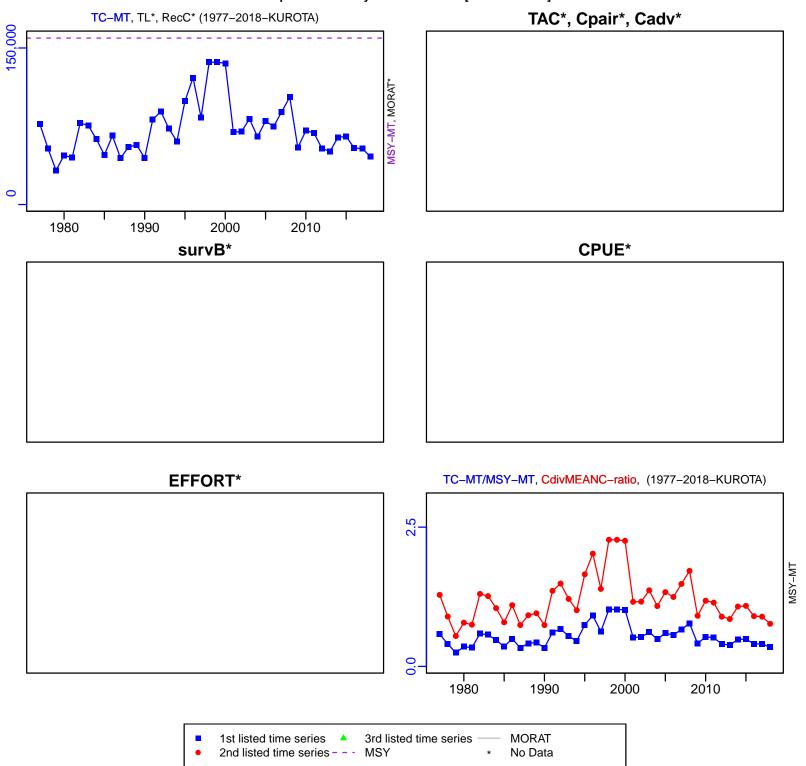
Japanese anchovy Tsushima Strait [JANCHOTSST]



Japanese anchovy Tsushima Strait [JANCHOTSST]



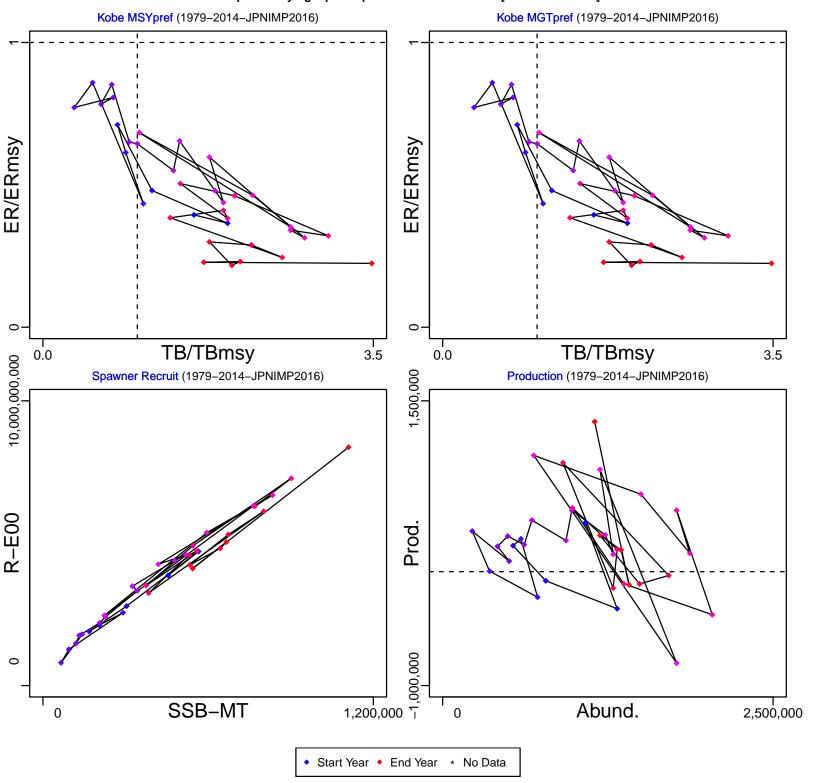
Japanese anchovy Tsushima Strait [JANCHOTSST]

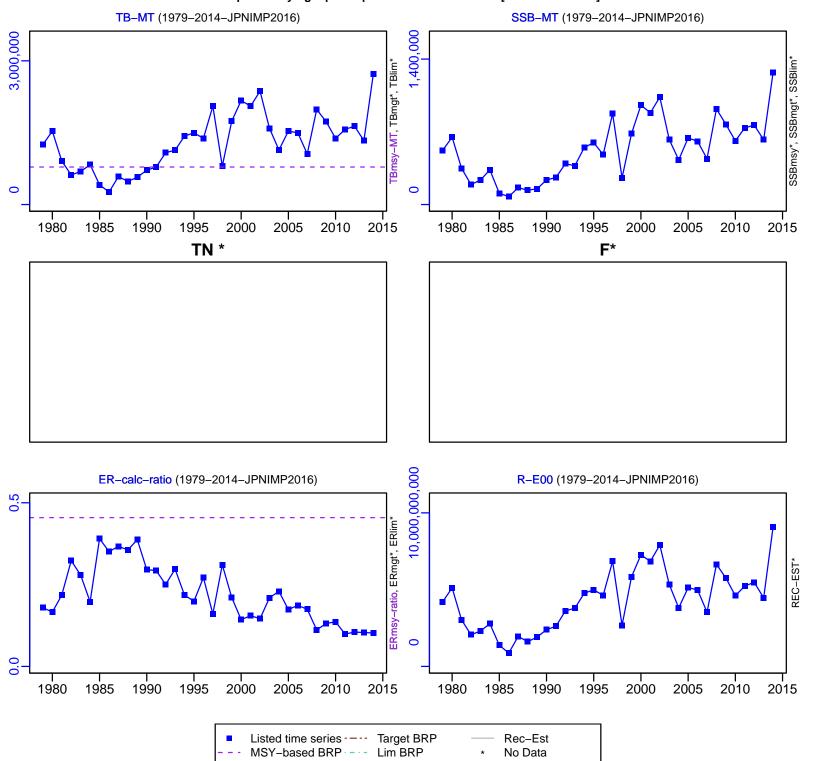


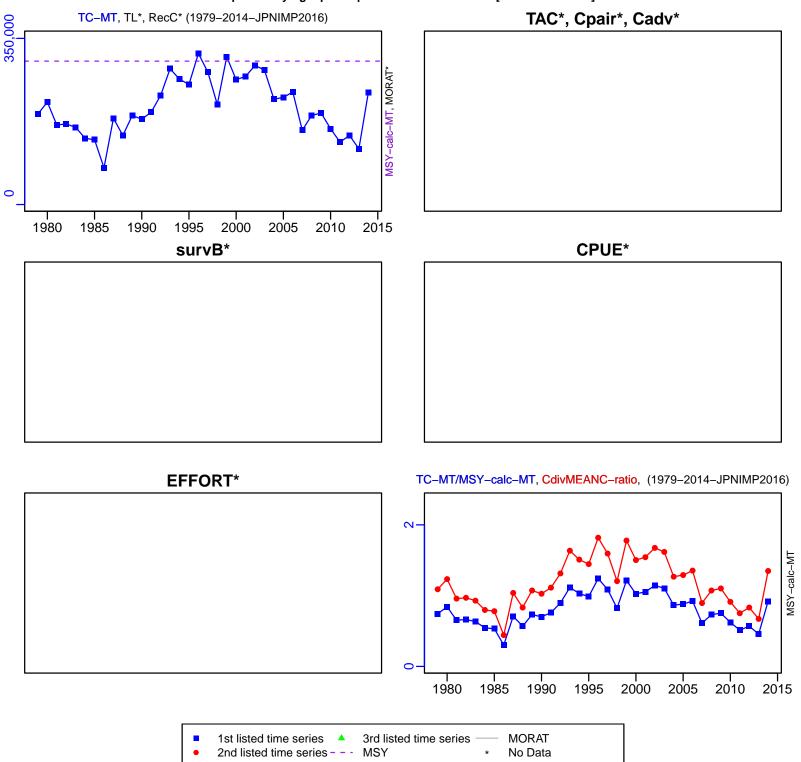
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID FAFRFJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016			
Area Japan Autumn recruitment			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2014		

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

	Time Series				
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	8.37×10^{9}	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.1	-	-
TC	TC-MT	2014	235,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	3.483		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.224		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



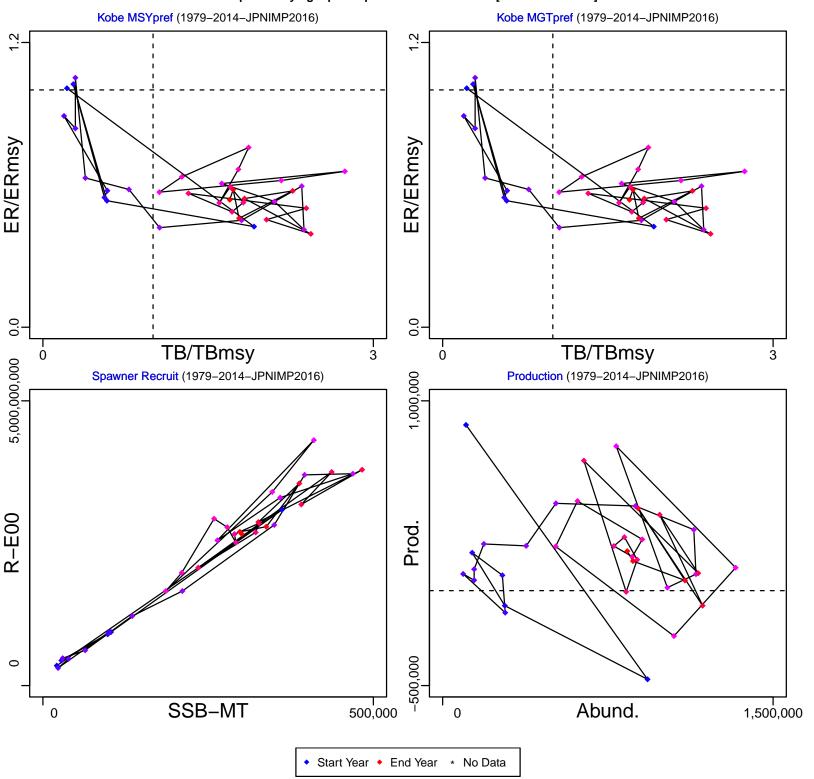


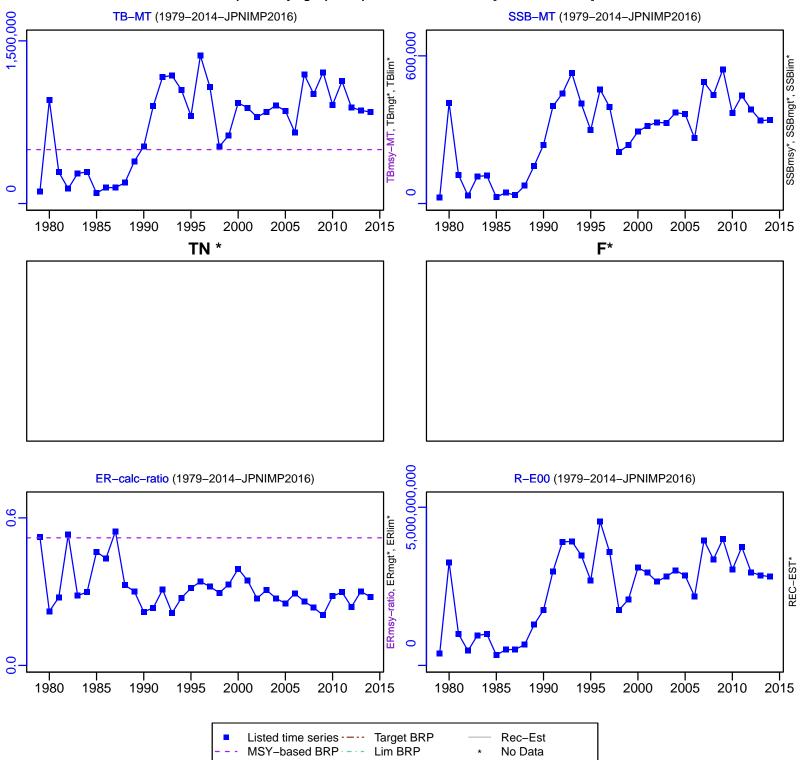


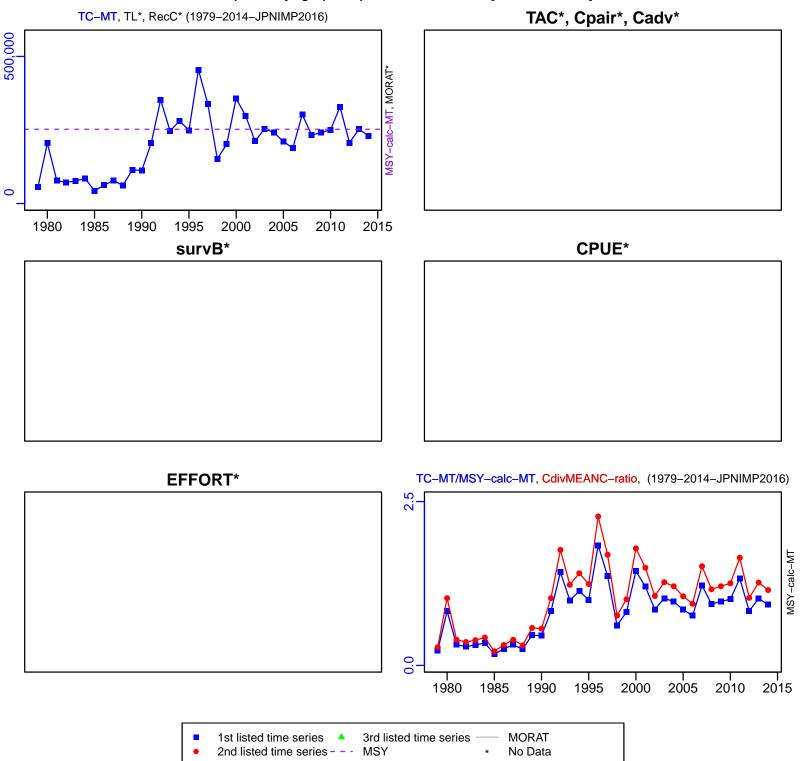
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID FAFRFJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016			
Area Japan Winter recruitment			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2014		

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

	Time Series				
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	2.66×10^{9}	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.247	-	-
TC	TC-MT	2014	203,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	1.696		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.537		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



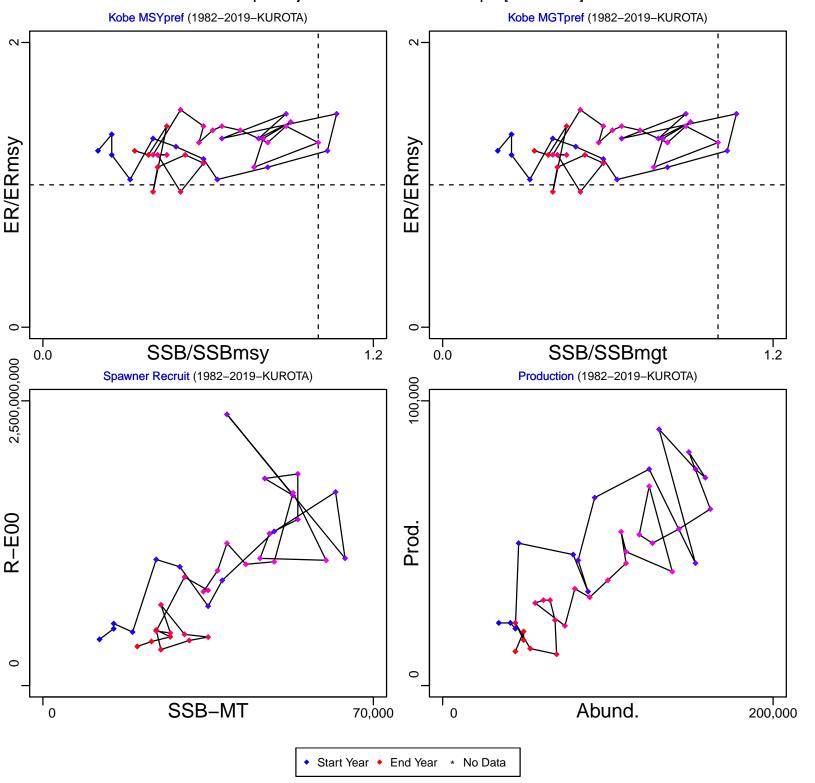


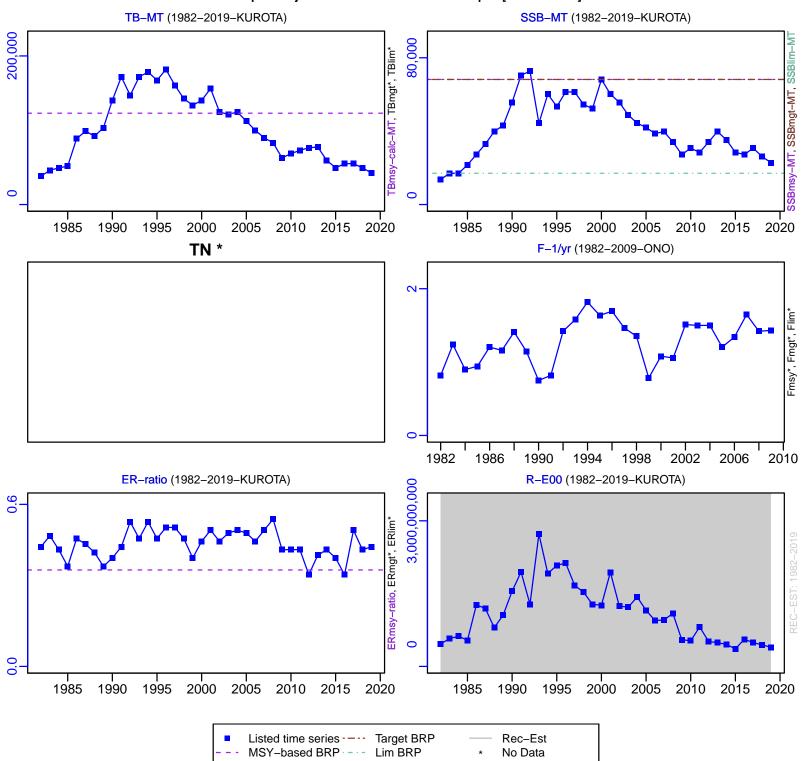


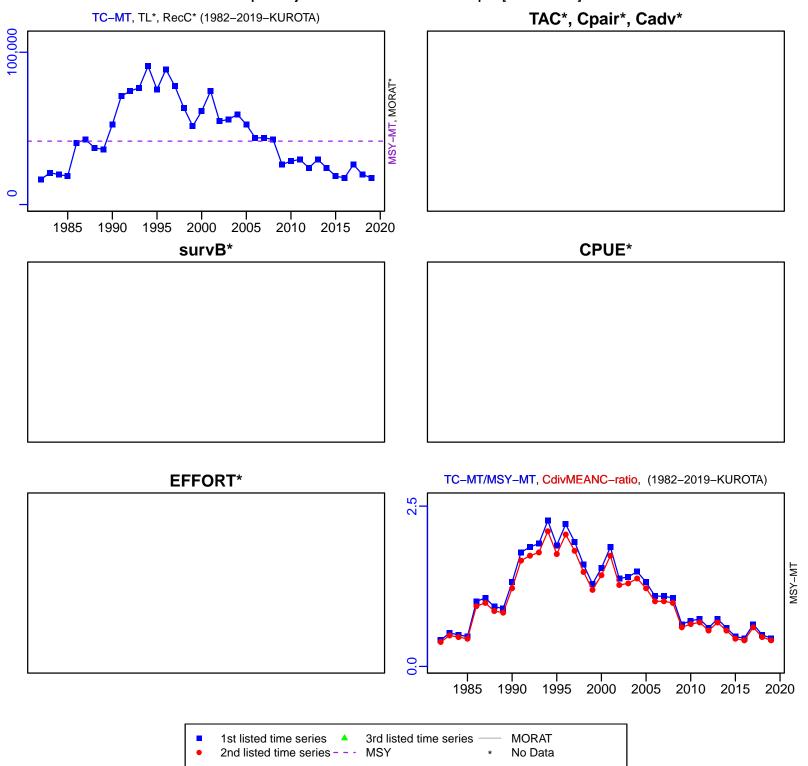
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKPJPN-1982-2019-KUROTA			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2009, 2013, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2019	109,510	
SSBmsy	SSBmsy-MT	2019	60,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2019	0.347	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2019	60,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	38,000	
М	M-1/yr	2019	0.5	
TBlim	TBlim-MT	2009	24	
SSBlim	SSBlim-MT	2019	15,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	38,000	Both	0
SSB	SSB-MT	2019	20,000	Both	1
TN	-	-	-	-	-
R	R-E00	2019	3.43×10^{8}	Both	0
F	F-1/yr	2009	1.26	Both	0 to 2
ER	ER-ratio	2019	0.43	Both	-
TC	TC-MT	2019	16,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	0.347		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.333		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	1.239		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.333		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



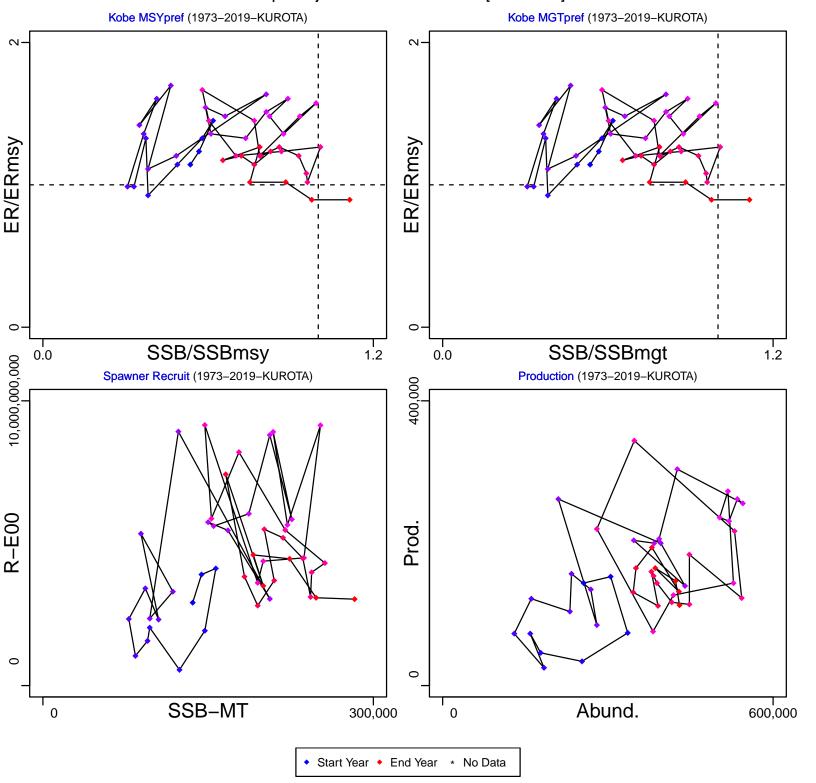


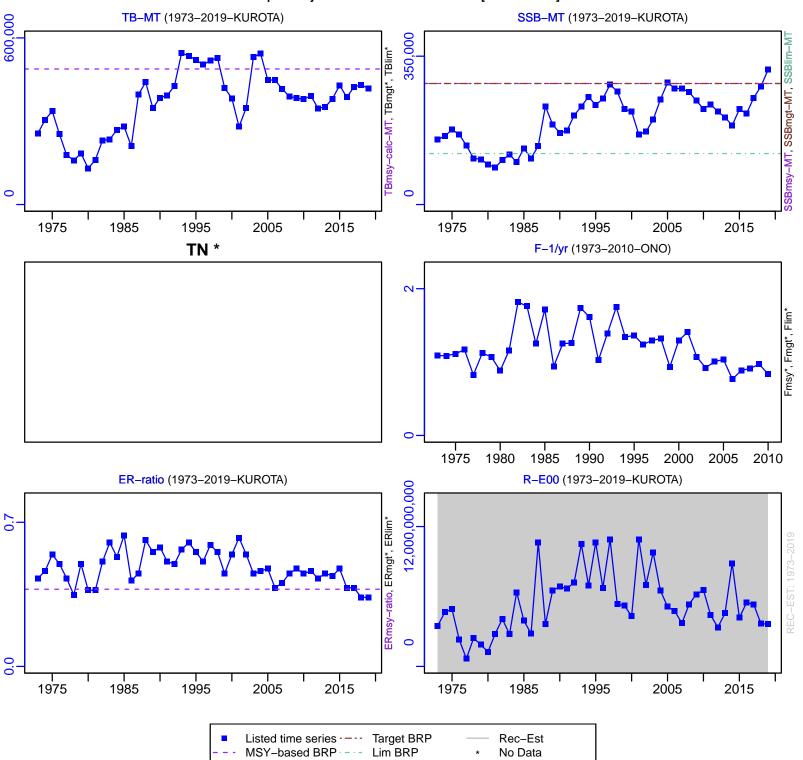


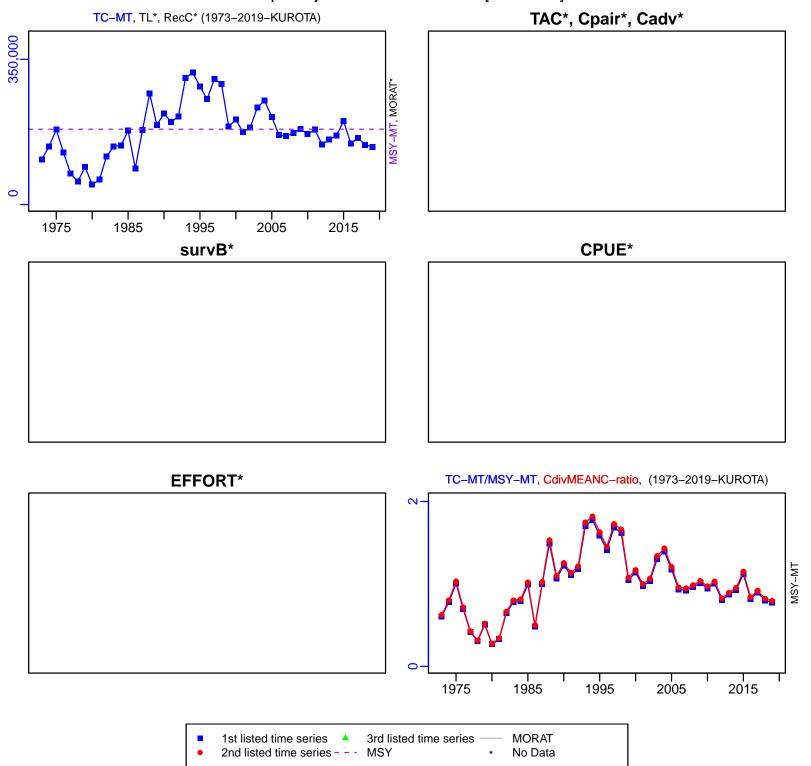
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKTSST-1973-2019-KUROTA			
Area Tsushima Strait			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013, 2019		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	487,654
SSBmsy	SSBmsy-MT	2019	254,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	0.324
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	254,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	158,000
М	M-1/yr	2019	0.5
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	107,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	418,000	Both	0
SSB	SSB-MT	2019	283,000	Both	1
TN	-	-	-	-	-
R	R-E00	2019	3.035×10^{9}	Both	0
F	F-1/yr	2010	0.736	-	0 to 3
ER	ER-ratio	2019	0.29	Both	-
TC	TC-MT	2019	121,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	0.857		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.114		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.895		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.114		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



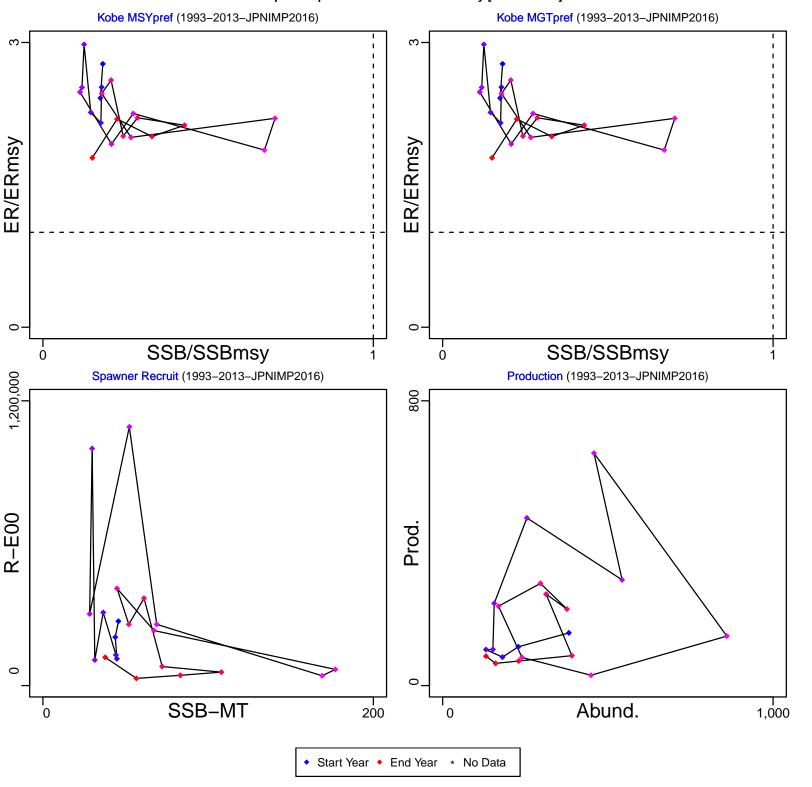


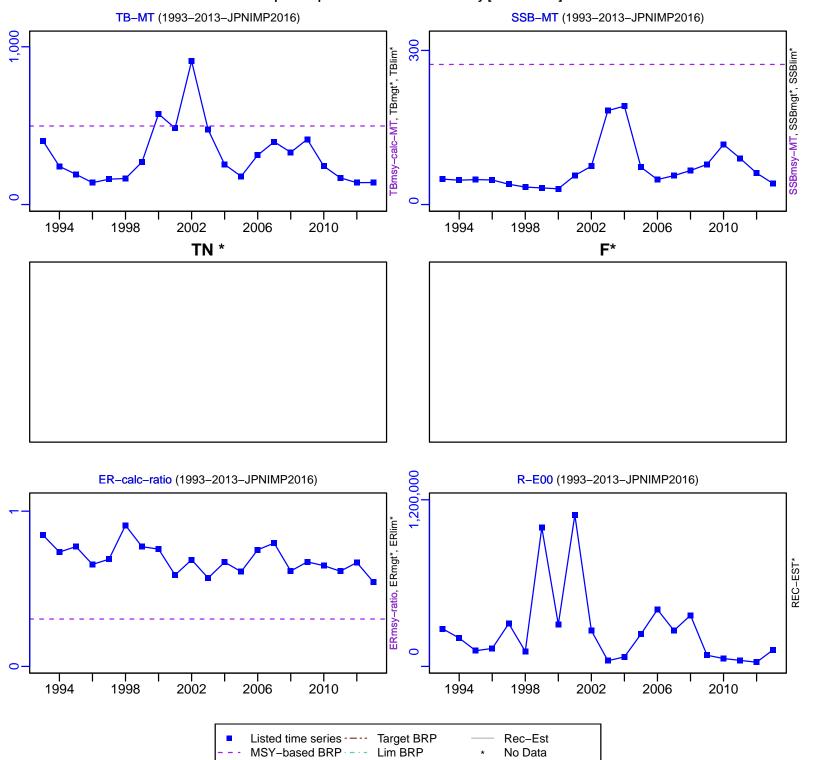


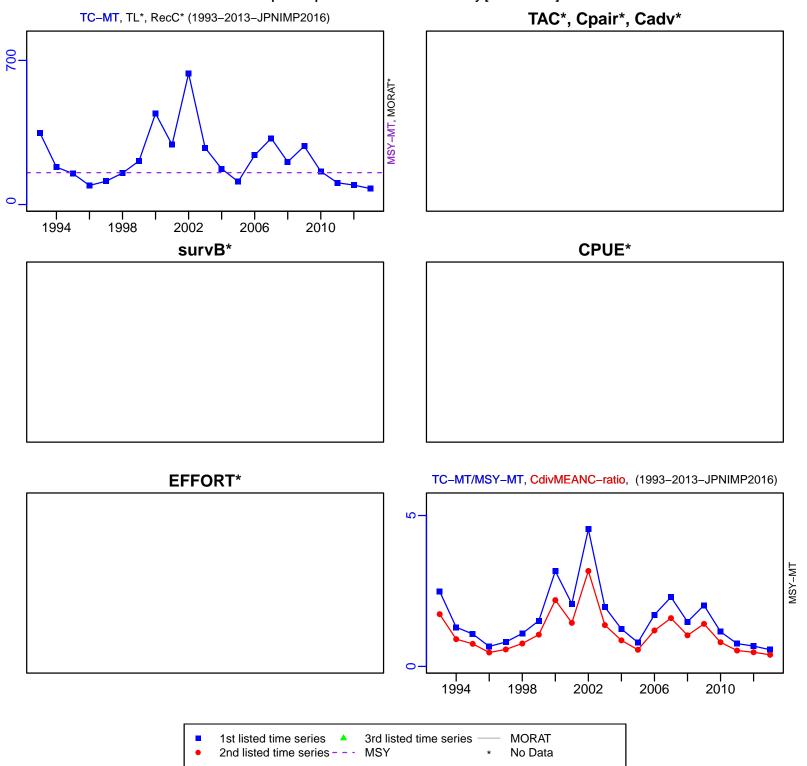
Metadata		
Scientific Name	Takifugu rubripes	
Current Assess ID	FAFRFJ-JPUFFIMKB-1993-2013-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	471	
SSBmsy	SSBmsy-MT	2013	252	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.284	
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	0.507	-	-
TC	TC-MT	2013	67		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.28		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.15		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.785		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







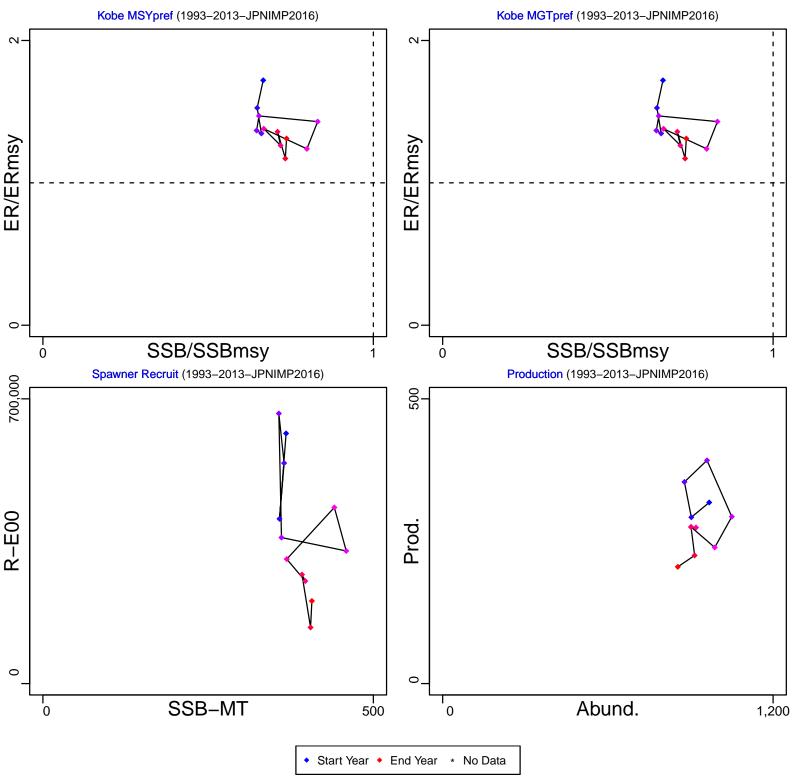
Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

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

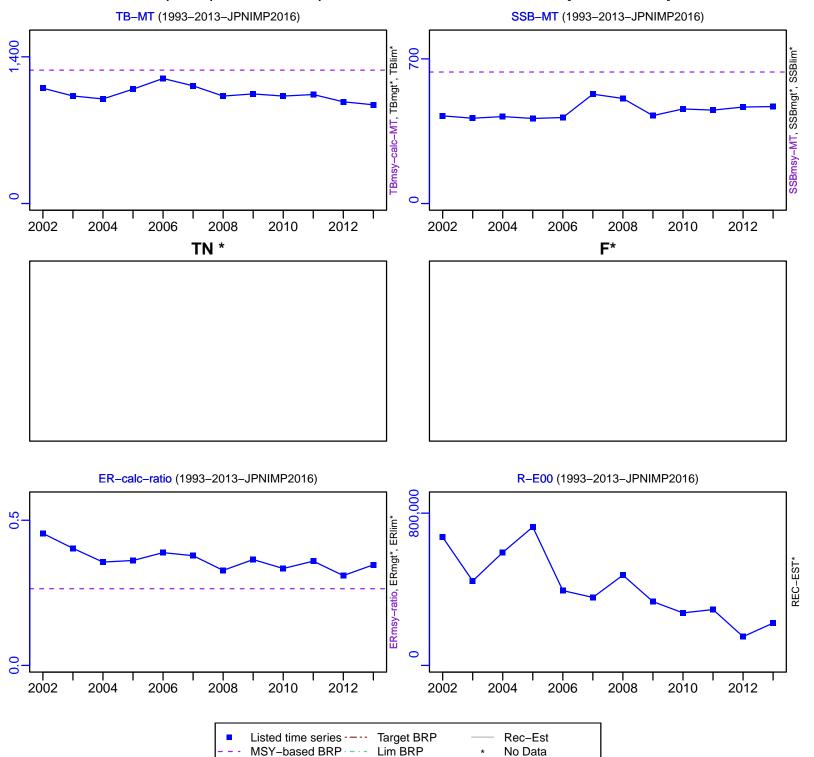
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	1120	
SSBmsy	SSBmsy-MT	2013	552	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.23	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	258	
М	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

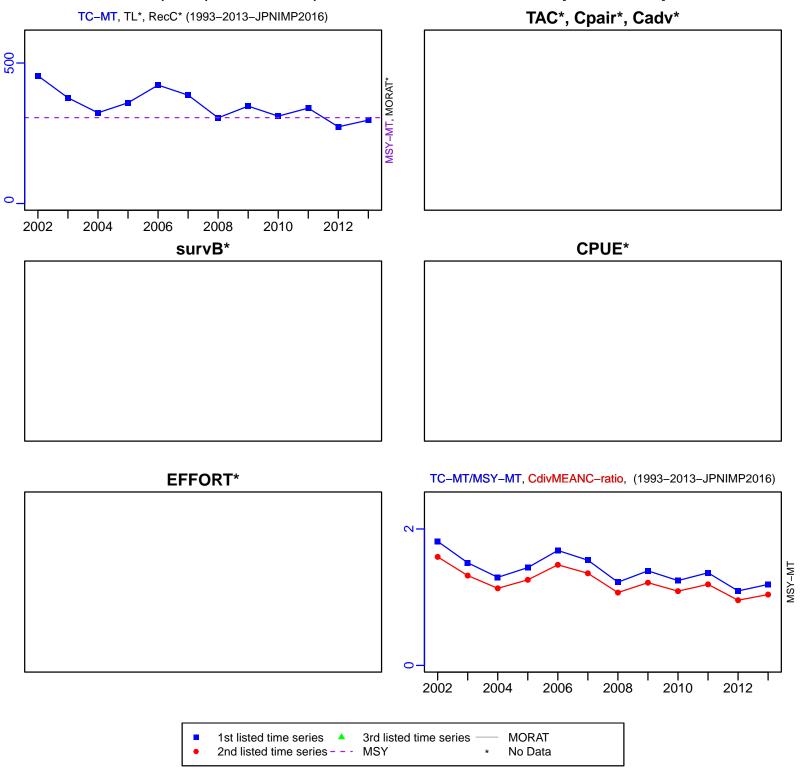
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	829	-	0
SSB	SSB-MT	2013	407	Both	3
TN	-	-	-	-	-
R	R-E00	2013	203,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.302	-	-
TC	TC-MT	2013	250		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.74		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.737		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.311		
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	FAFRFJ-JSNAPOKWI-1989-2013-JPNIMP2016	
Area	Okinawa Islands	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

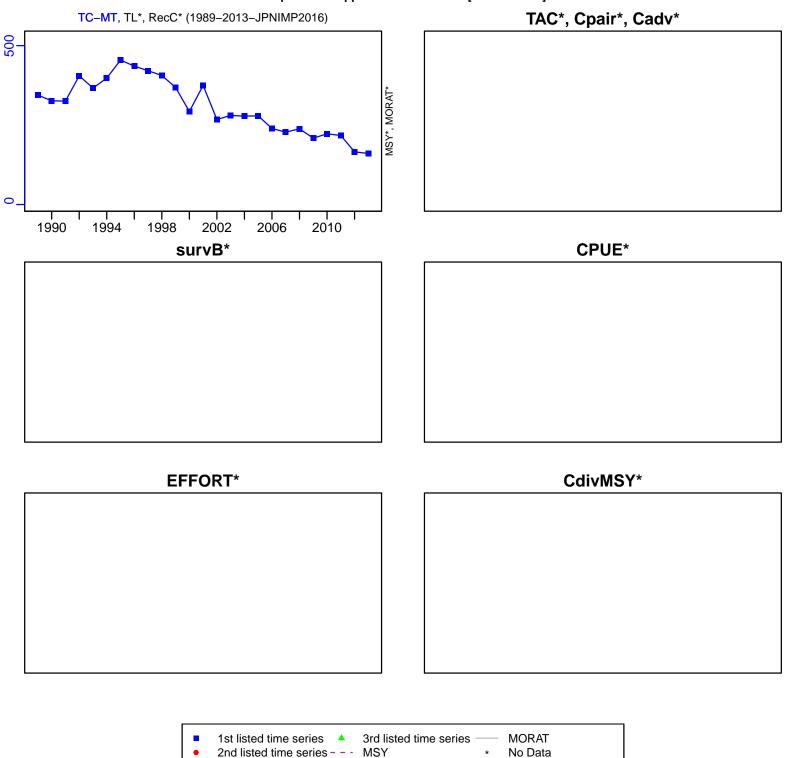
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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 MSY*	Kobe MGT*
Spawner Recruit*	Production*
- Opawner Regiant	1 Toddottott

◆ Start Year ◆ End Year * No Data

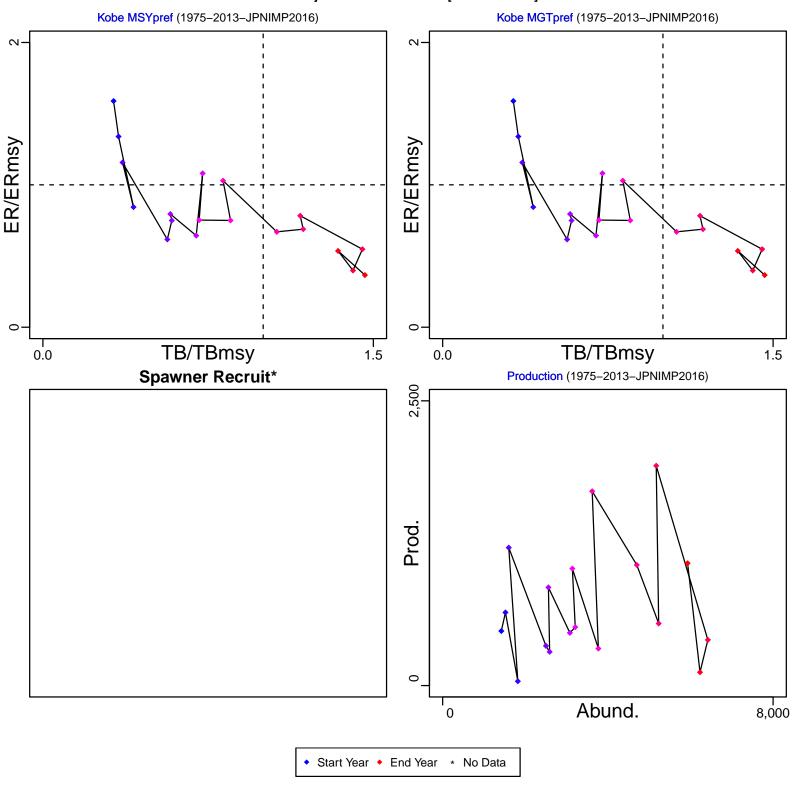
TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta MSY-based BRP Li	im BRP * No Data

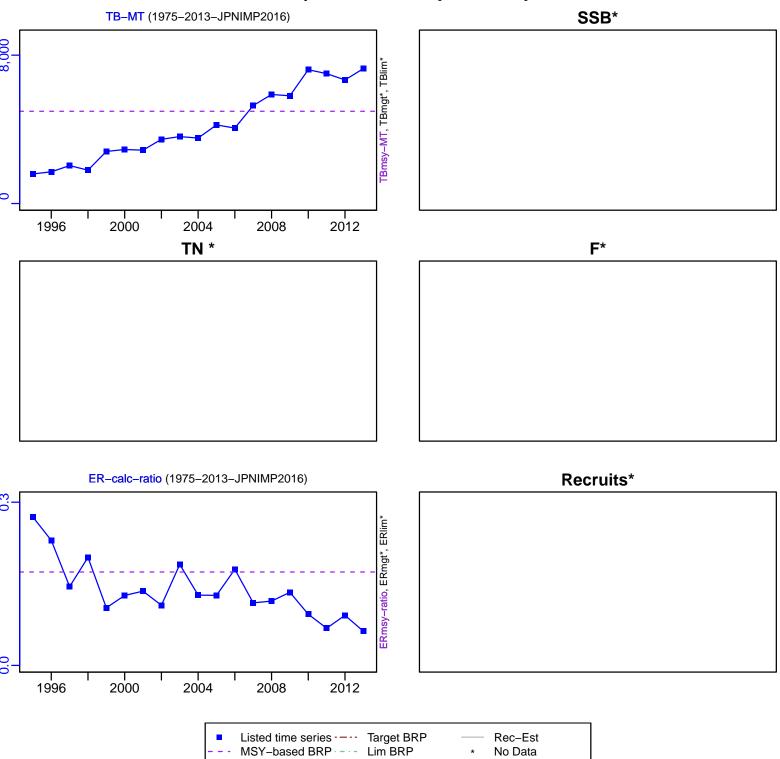


Metadata		
Scientific Name	Sebastolobus macrochir	
Current Assess ID	FAFRFJ-KCROCKNPAC-1975-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

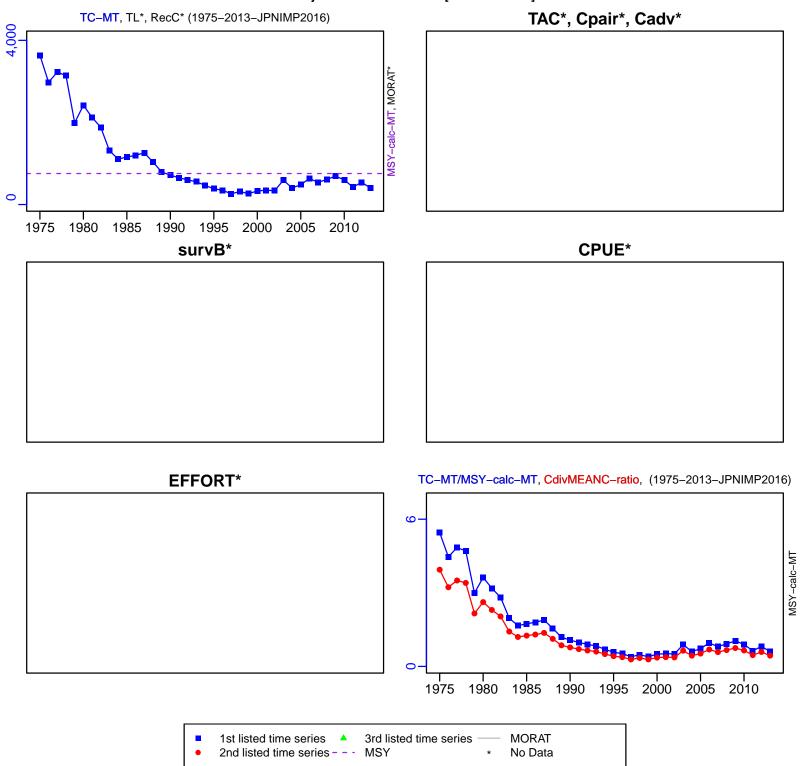
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2013	4426	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.168	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-calc-MT	2013	744	
М	M-1/yr	2013	0.125	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	6470	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.062	-	-
TC	TC-MT	2013	398		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.462		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.366		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



Kichiji rockfish Okhotsk Sea [KCROCKOKS]

Metadata		
Scientific Name	Sebastolobus macrochir	
Current Assess ID	FAFRFJ-KCROCKOKS-1975-2013-JPNIMP2016	
Area	Okhotsk Sea	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research 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	309		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Kichiji rockfish Okhotsk Sea [KCROCKOKS]

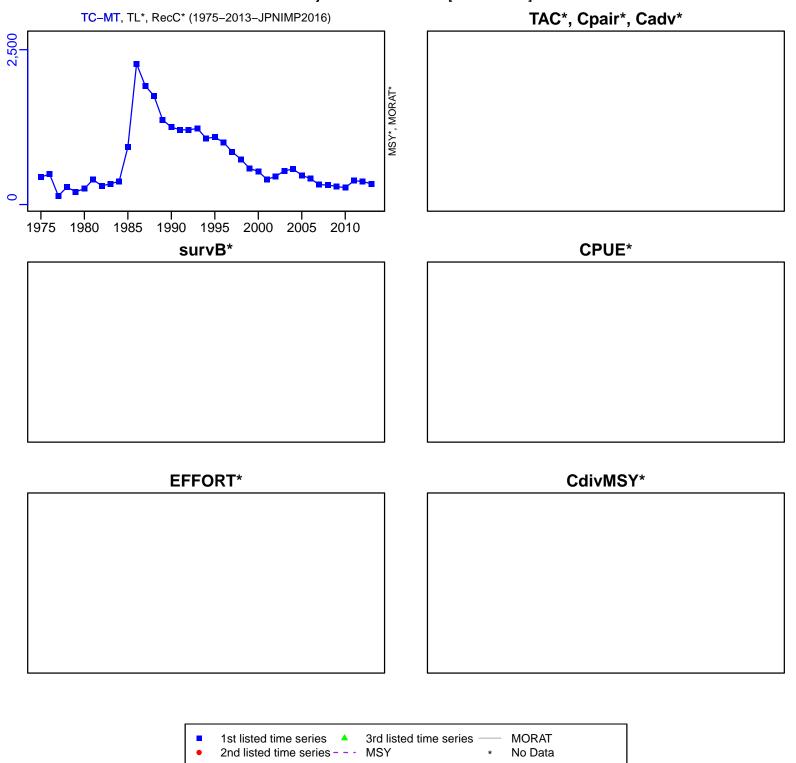
Kobe MGT*
Production*

◆ 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	FAFRFJ-KCROCKSWHOKK-1975-2013-JPNIMP2016
Area	Southwestern coast of Hokkaido
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

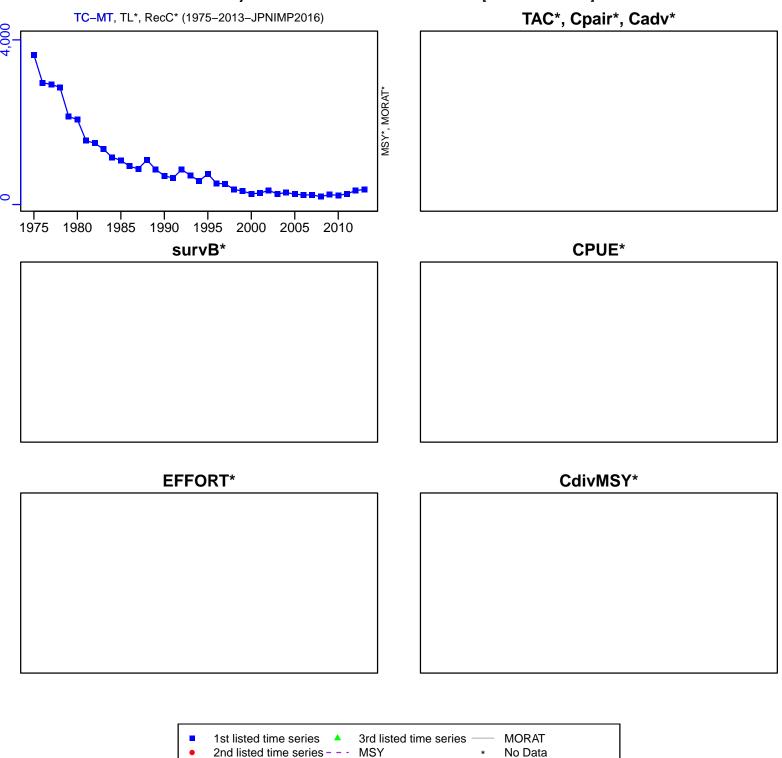
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	FAFRFJ-LCODLINGPAC-1989-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

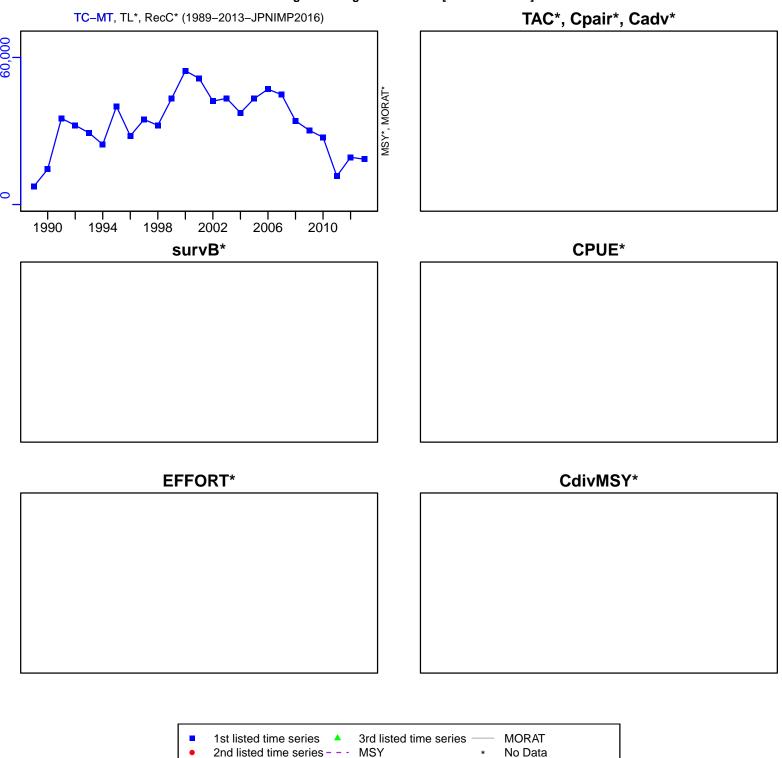
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
	-
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est



Metadata	
Scientific Name	Trichiurus lepturus
Current Assess ID	FAFRFJ-LHAIRTSOJECS-1981-2013-JPNIMP2016
Area	Sea of Japan and East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

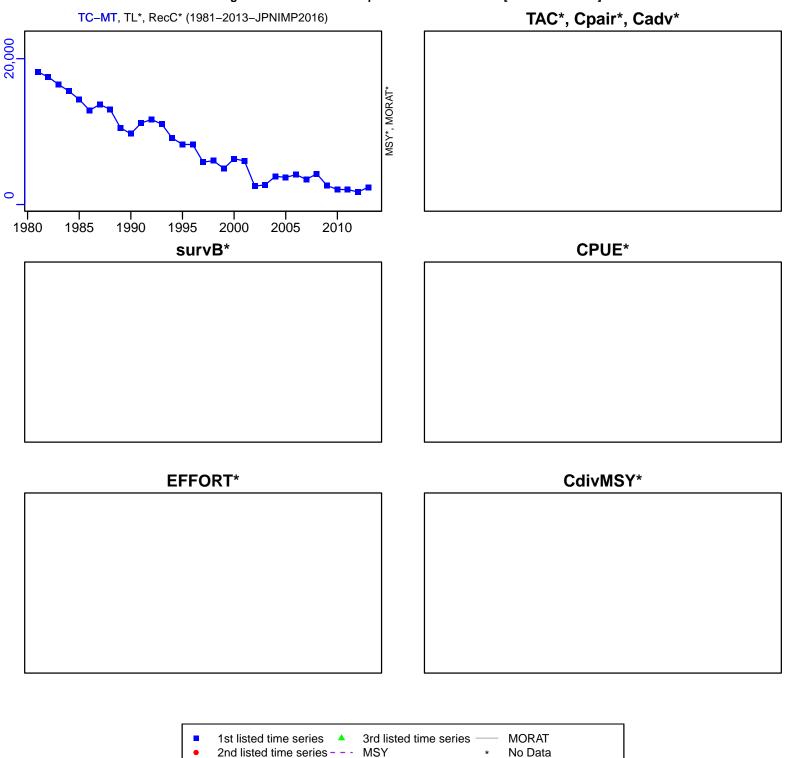
Reference Points								
Туре								
TBmsy	-	-	-					
SSBmsy	-	-	-					
Fmsy	-	-	-					
ERmsy	-	-	-					
TBmgt	-	-	-					
SSBmgt	-	-	-					
Fmgt	-	-	-					
ERmgt	-	-	-					
TB0	-	-	-					
SSB0	-	-	-					
MSY	-	-	-					
M	-	-	-					
TBlim	-	-	-					
SSBlim	-	-	-					
Flim	-	-	-					
ERlim	-	-	-					

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2070		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata		
Scientific Name	Pristipomoides sieboldii	
Current Assess ID	FAFRFJ-LJOBOKWI-1989-2013-JPNIMP2016	
Area Okinawa Islands		
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

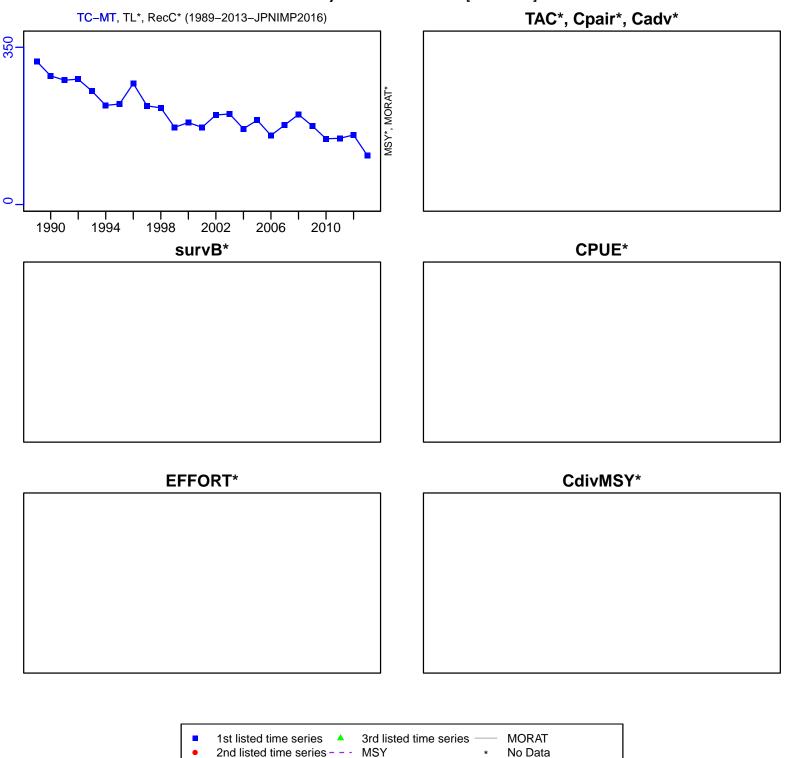
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID Asmt Year Curr Value Sex					
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*
a b 100	B. J. d *
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

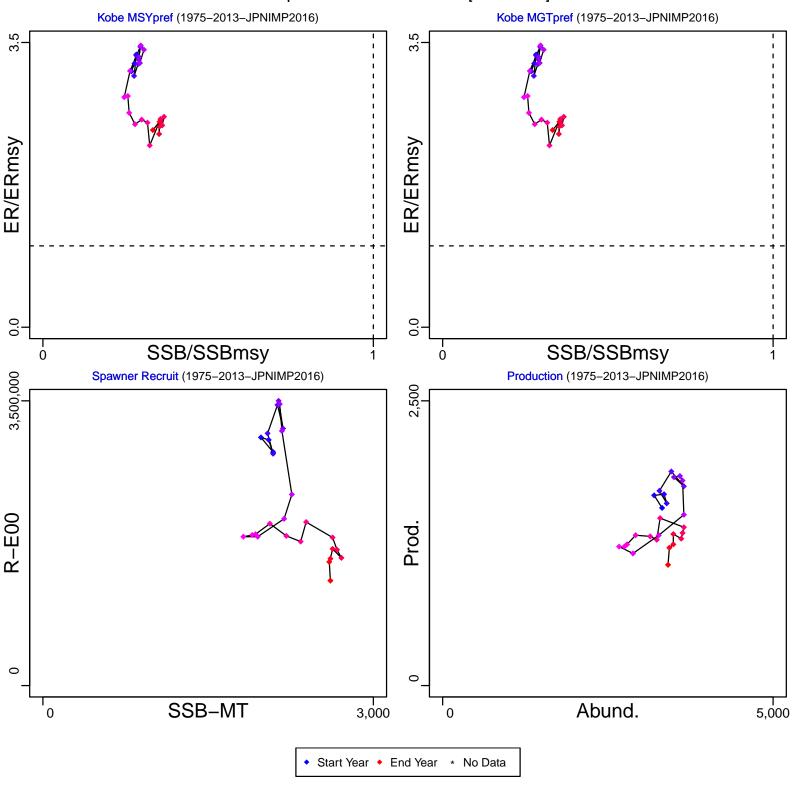
TB*	SSB*
TN *	F*
FD.	D 14 . W
ER*	Recruits*
■ Listed time series Ta	proof PPD —— Poc. Ect
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

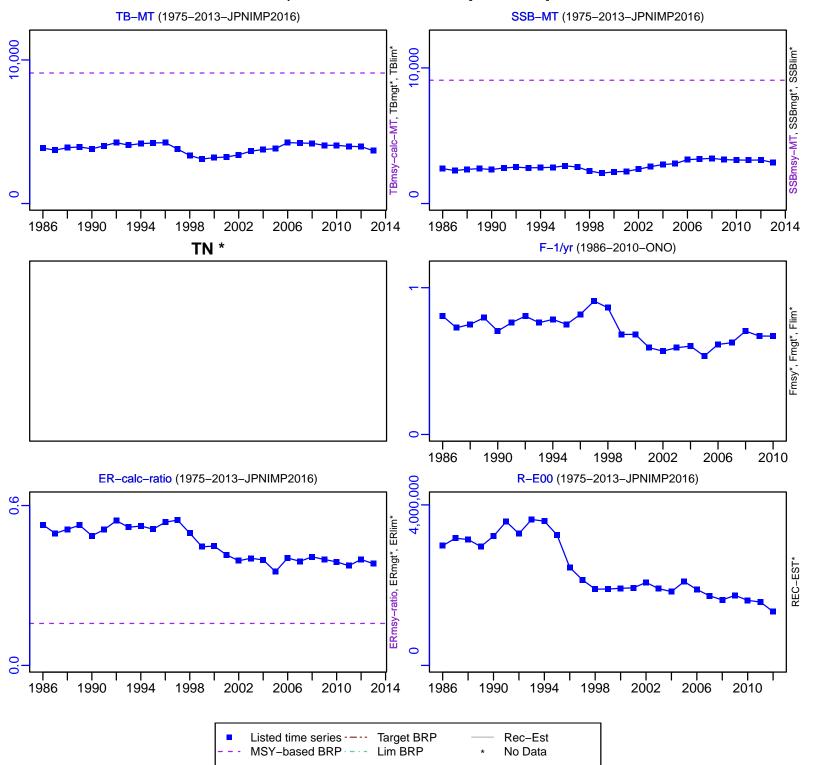


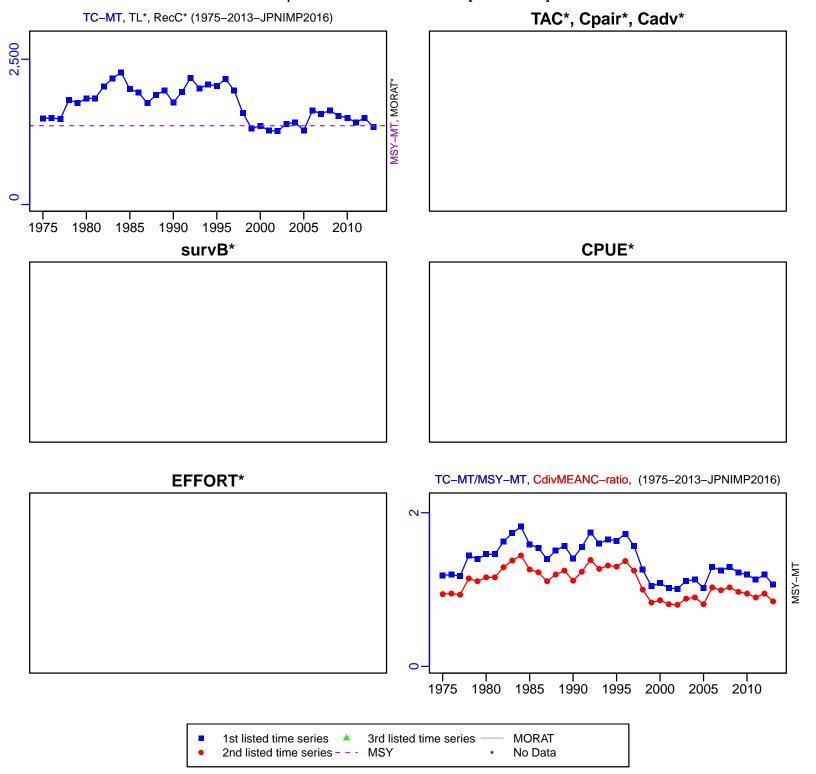
Metadata		
Scientific Name	Paralichthys olivaceus	
Current Assess ID	FAFRFJ-OFLOUNECS-1975-2013-JPNIMP2016	
Area East China Sea		
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013, 2010	

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	7826	
SSBmsy	SSBmsy-MT	2013	7393	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.151	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	1182	
M	M-1/yr	2013	0.208	
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	0.59	-	0 to 7
ER	ER-calc-ratio	2013	0.366	-	-
TC	TC-MT	2013	1160		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.333		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.423		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







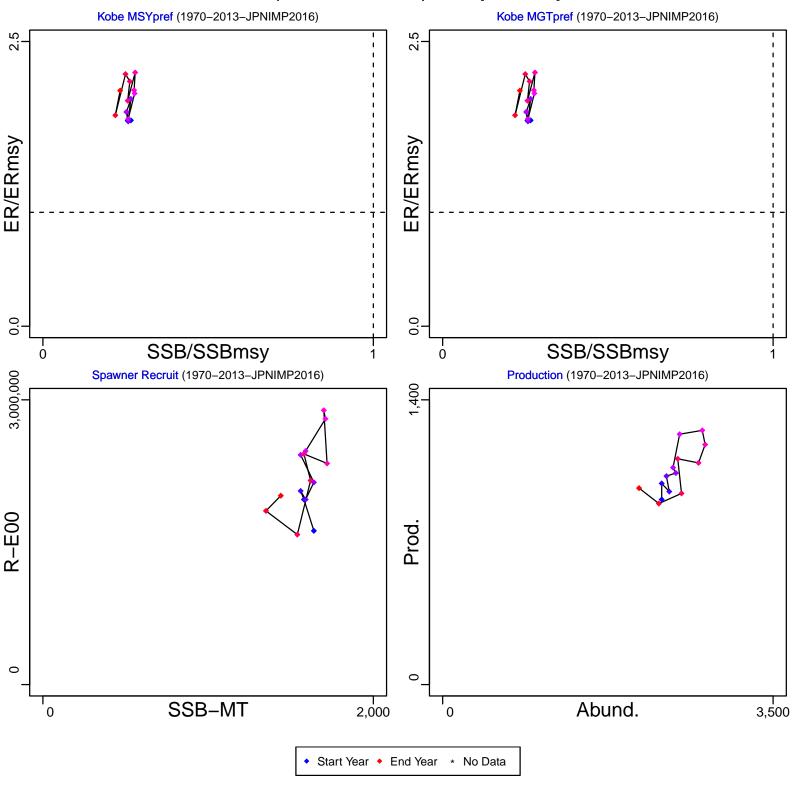
Japanese flounder Sea of Japan North [OFLOUNNSJ]

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

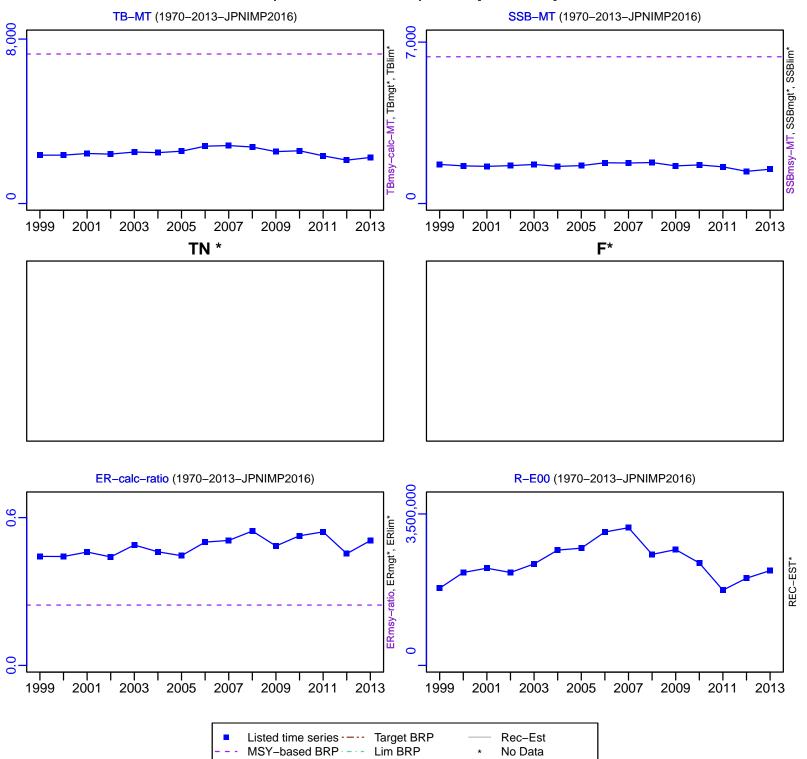
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	7172	
SSBmsy	SSBmsy-MT	2013	6160	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.217	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	1556	
M	M-1/yr	2013	0.2	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	2900	
Flim	-	-	-	
ERlim	-	-	-	

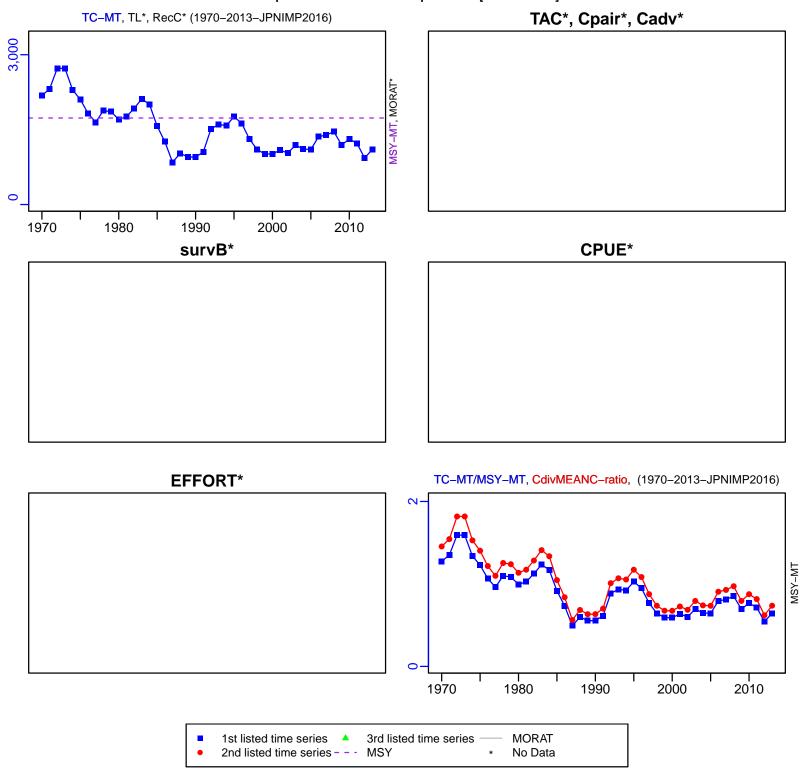
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2210	-	1
SSB	SSB-MT	2013	1440	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,990,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
TC	TC-MT	2013	992		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.308		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.234		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.069		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Sea of Japan North [OFLOUNNSJ]



Japanese flounder Sea of Japan North [OFLOUNNSJ]

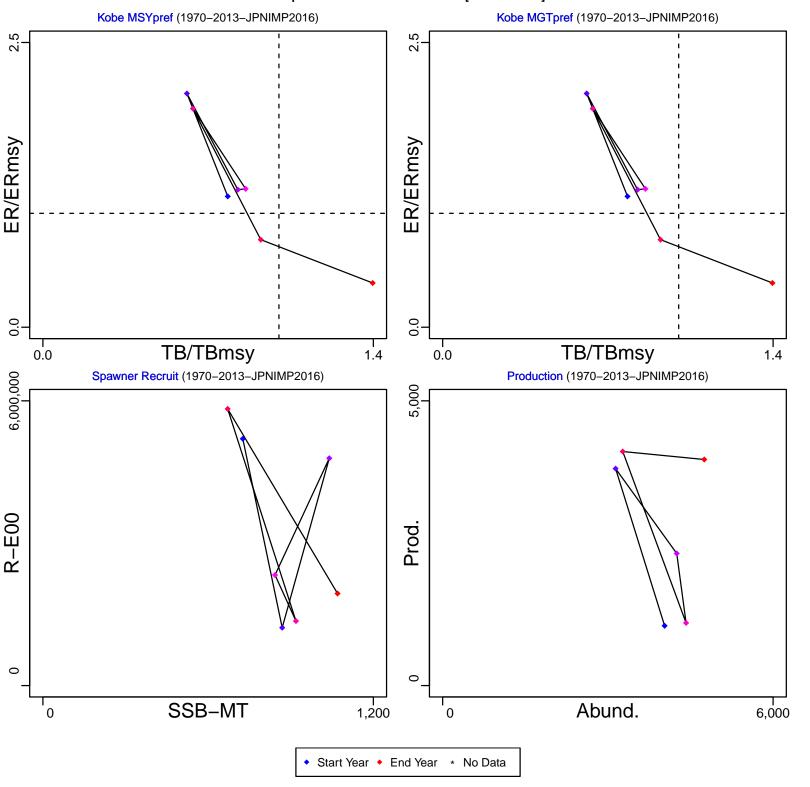


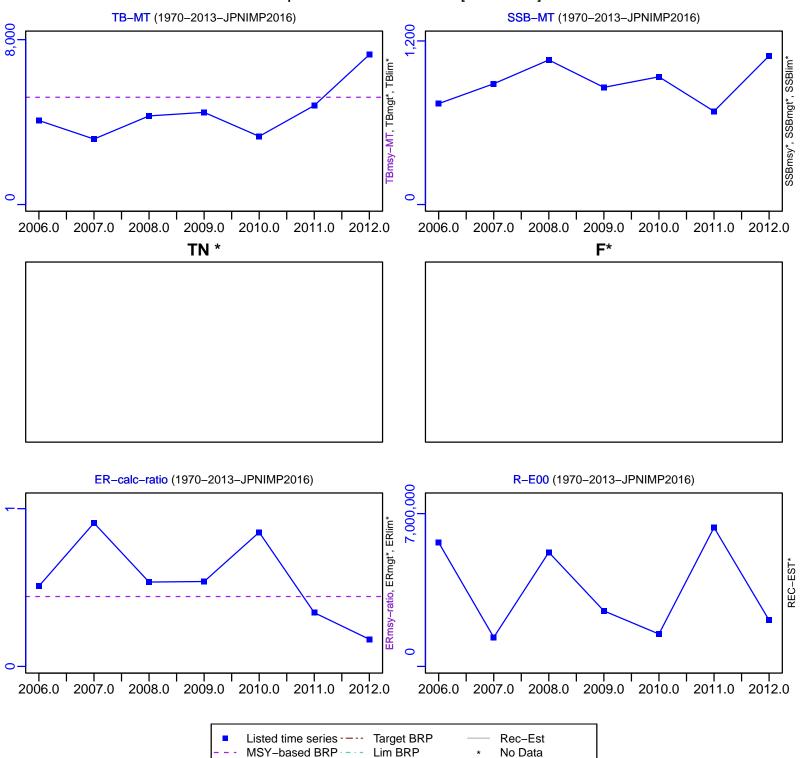


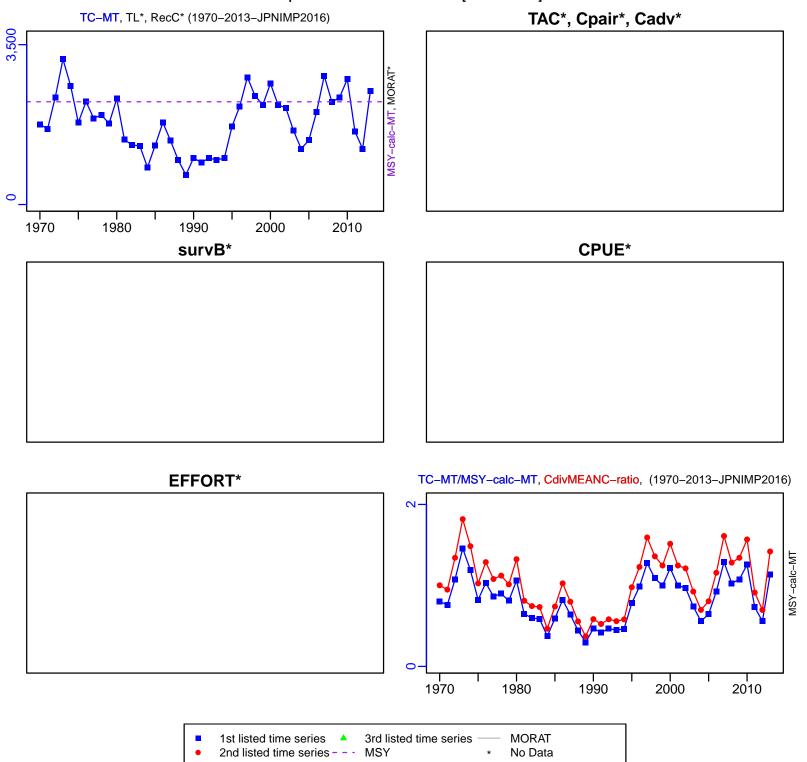
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID FAFRFJ-OFLOUNPAC-1970-2013-JPNIMP2016			
Area Pacific Ocean			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2013	5146	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.419	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-calc-MT	2013	2156	
M	M-1/yr	2013	0.21	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2009	1600	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
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	0.163	-	-
TC	TC-MT	2013	2380		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.397		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.388		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







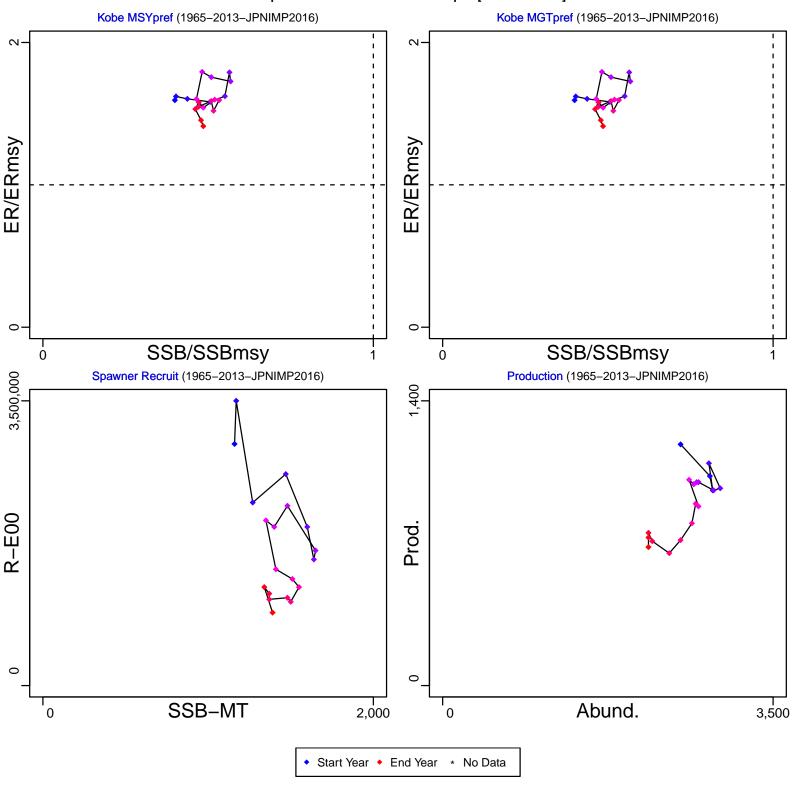
Japanese flounder Inland Sea of Japan [OFLOUNSETO]

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

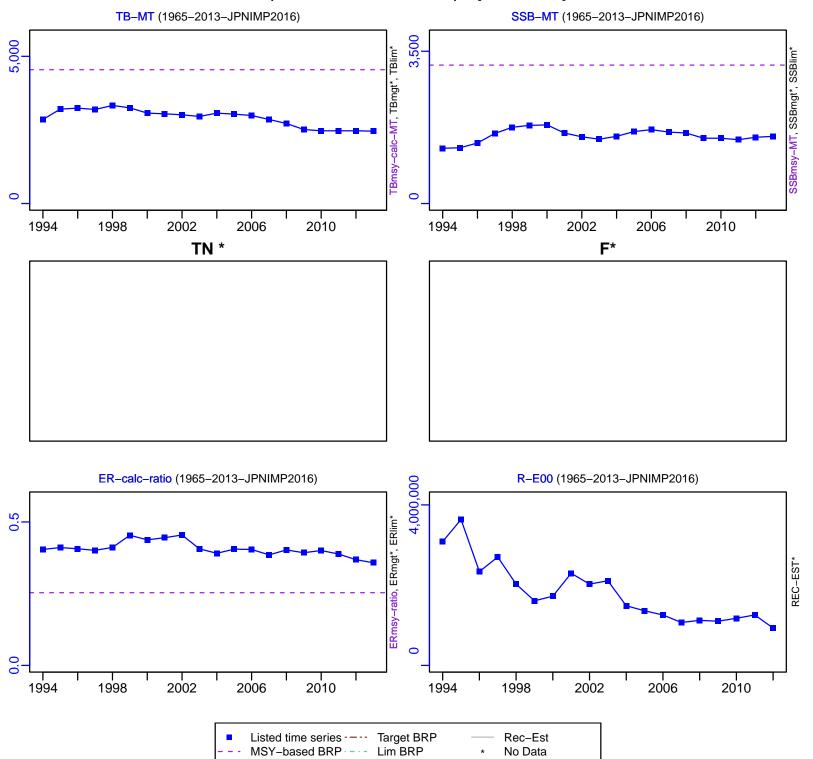
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	4012	
SSBmsy	SSBmsy-MT	2013	2905	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.218	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	875	
M	M-1/yr	2013	0.31	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	992	
Flim	-	-	-	
ERlim	-	-	-	

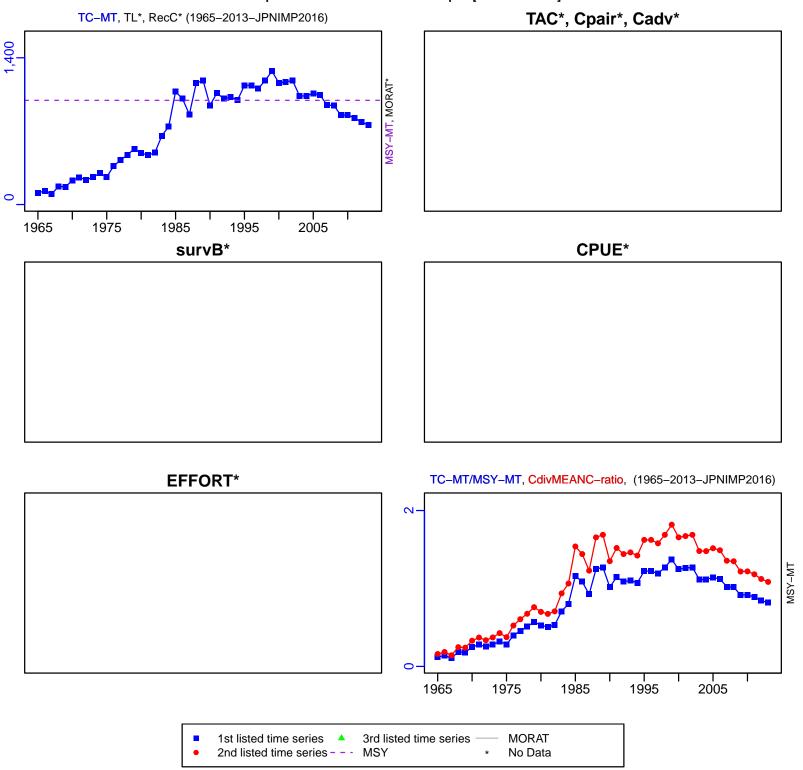
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2170	-	0
SSB	SSB-MT	2013	1410	Both	2
TN	-	-	-	-	-
R	R-E00	2013	897,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.308	-	-
TC	TC-MT	2013	668		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.541		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.485		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.412		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Inland Sea of Japan [OFLOUNSETO]



Japanese flounder Inland Sea of Japan [OFLOUNSETO]





Pacific cod Hokkaido [PCODHOKK]

Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID	FAFRFJ-PCODHOKK-1985-2013-JPNIMP2016		
Area Hokkaido			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research 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	0.313	
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]

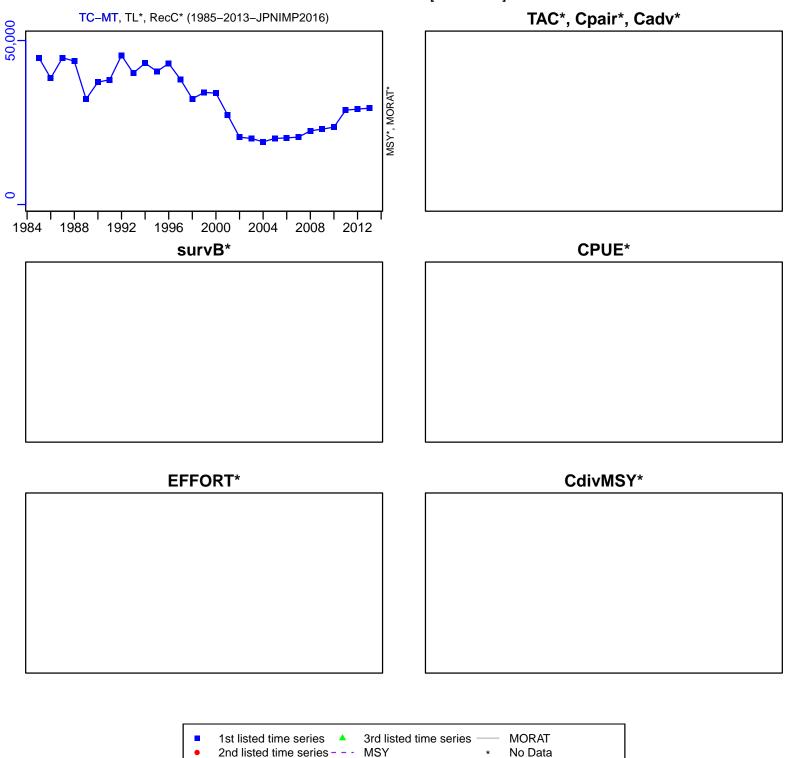
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Pacific cod Hokkaido [PCODHOKK]

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

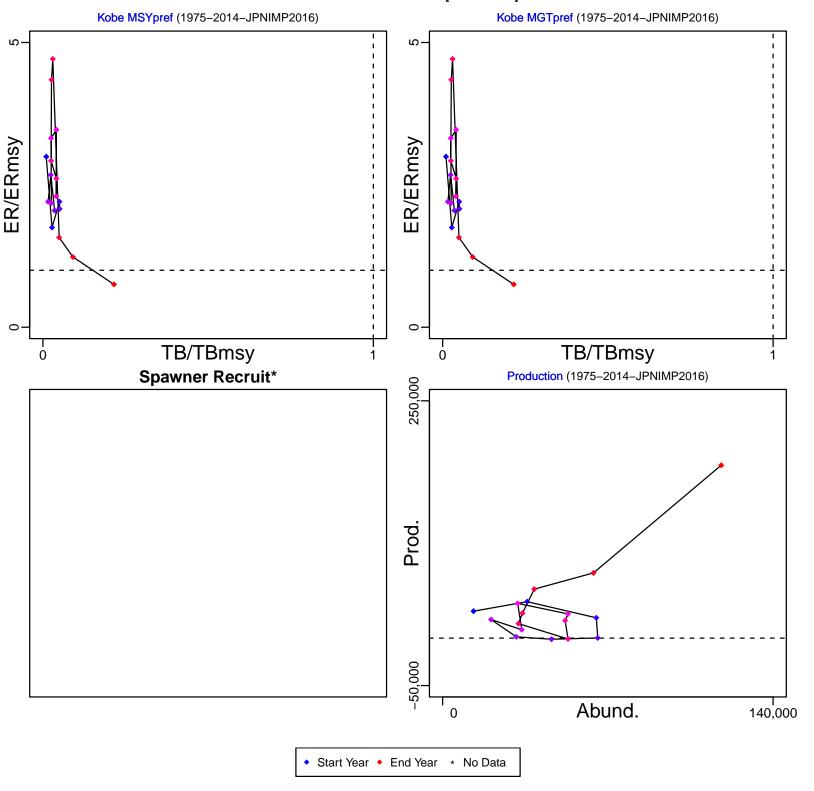
Pacific cod Hokkaido [PCODHOKK]

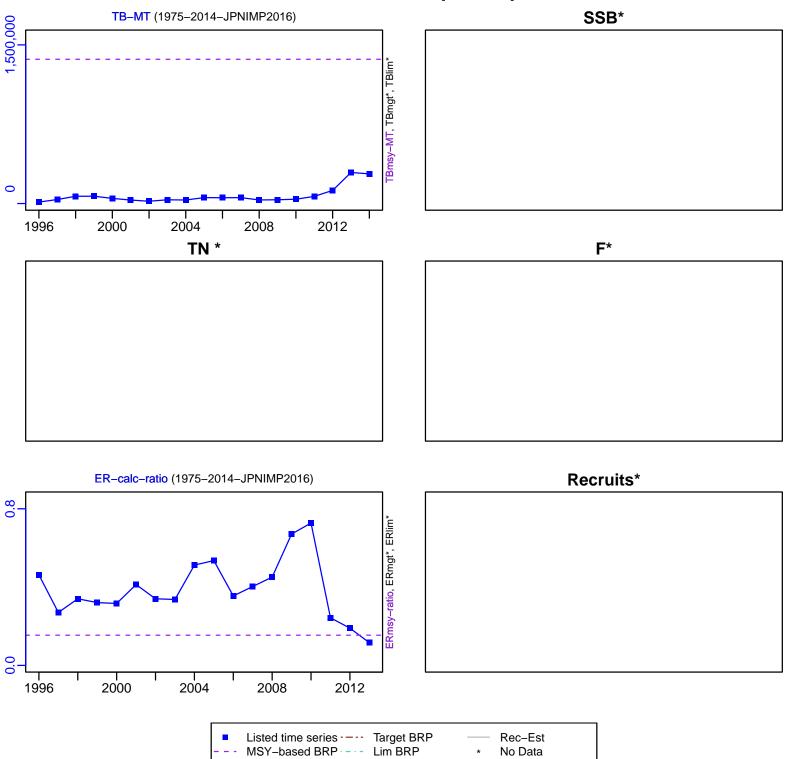


Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID	FAFRFJ-PCODNPAC-1975-2014-JPNIMP2016		
Area North Pacific			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2014		

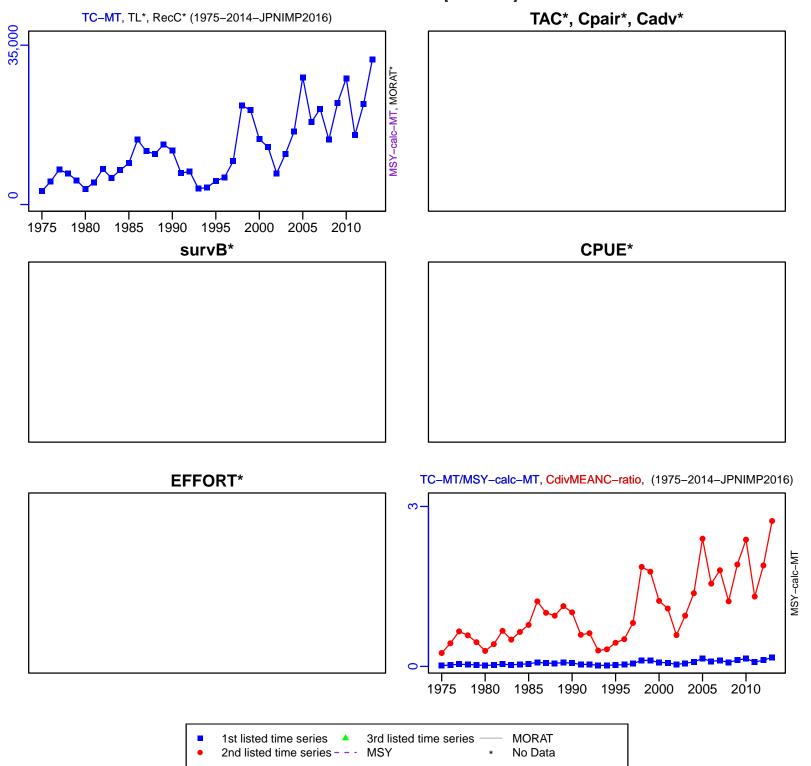
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2014	1,297,226		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2014	0.145		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2014	188,098		
М	M-1/yr	2014	0.313		
TBlim	-	-	-		
SSBlim	-	-	-		
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	0.109	-	-
TC	TC-MT	2014	30,400		
TL	-	-	-	1	
TB/TBmsy	TB-MT/TBmsy-MT	2014	0.206		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.751		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID FAFRFJ-PCODSOJ-1964-2013-JPNIMP2016			
Area Sea of Japan			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

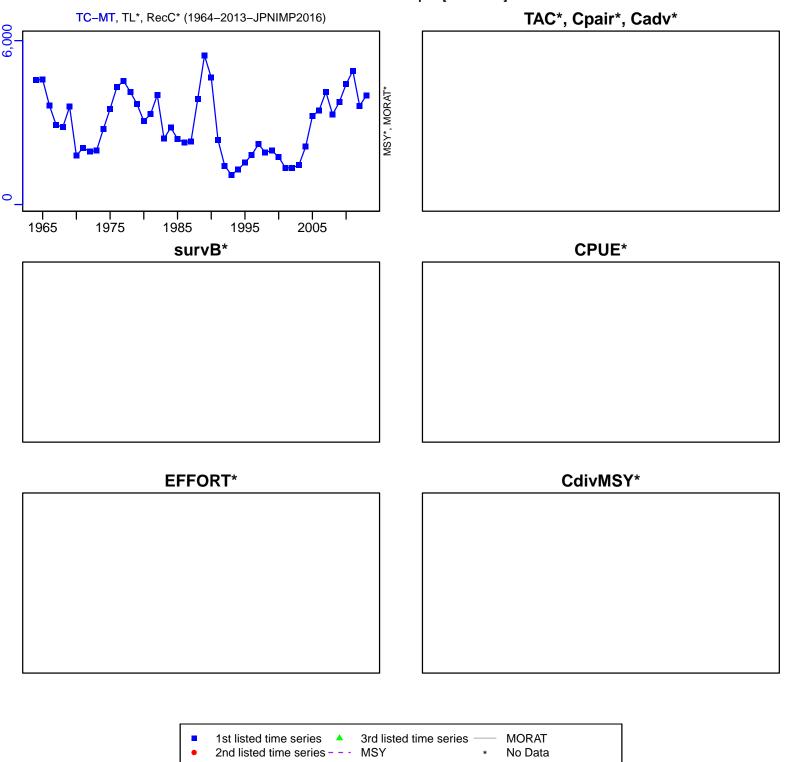
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.313		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	FAFRFJ-PHFLOUNNHOKK-1985-2013-JPNIMP2016		
Area North coast of Hokkaido			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

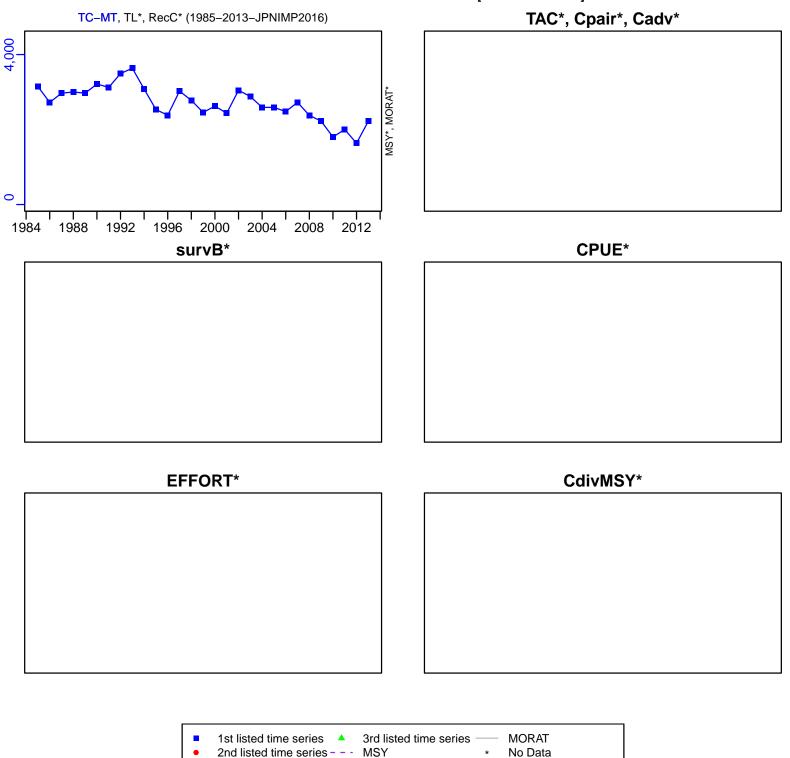
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.3		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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

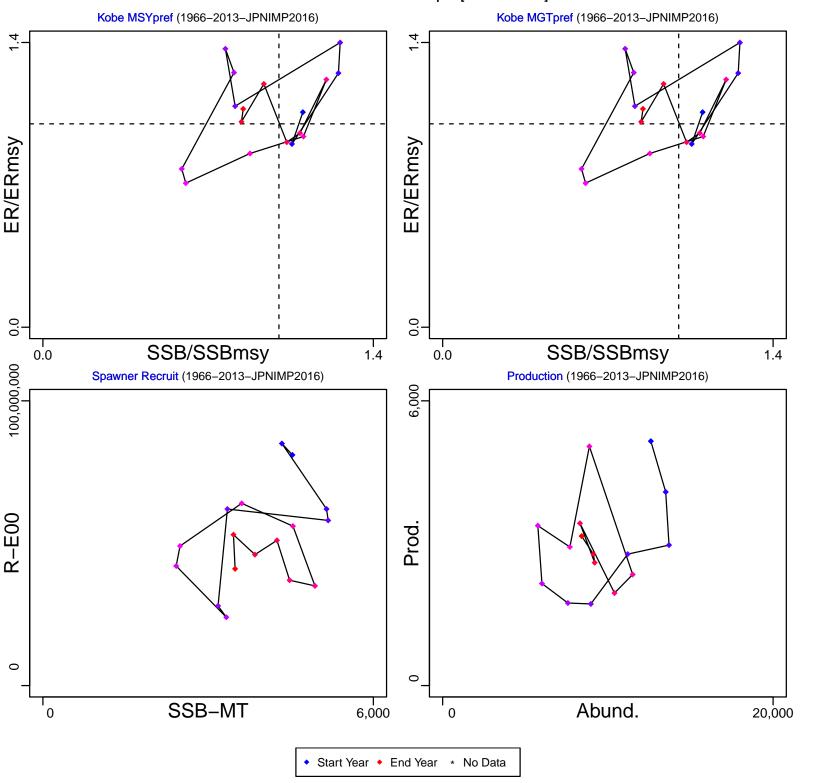
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

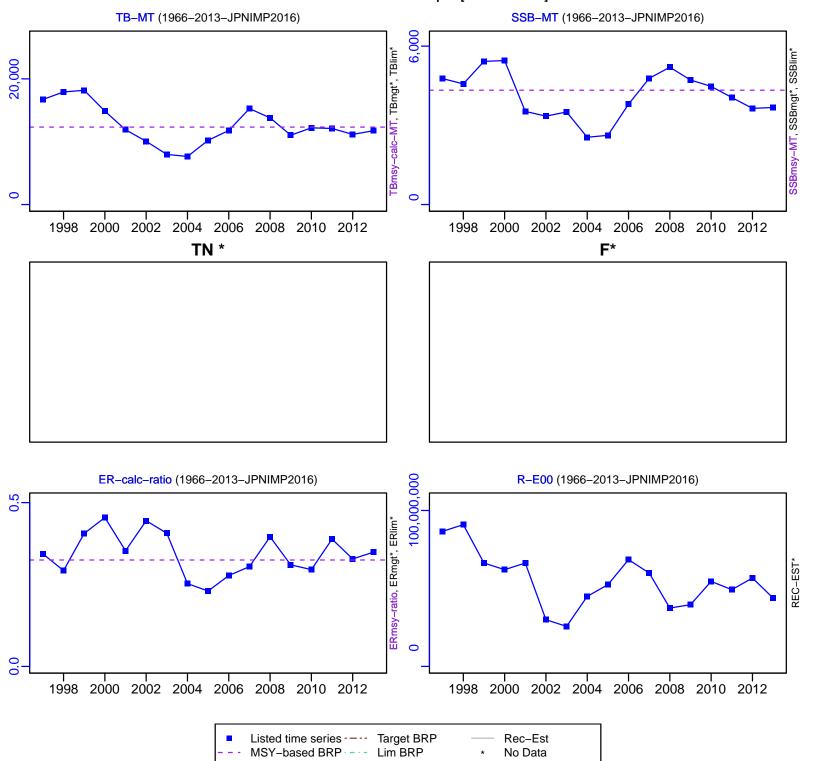


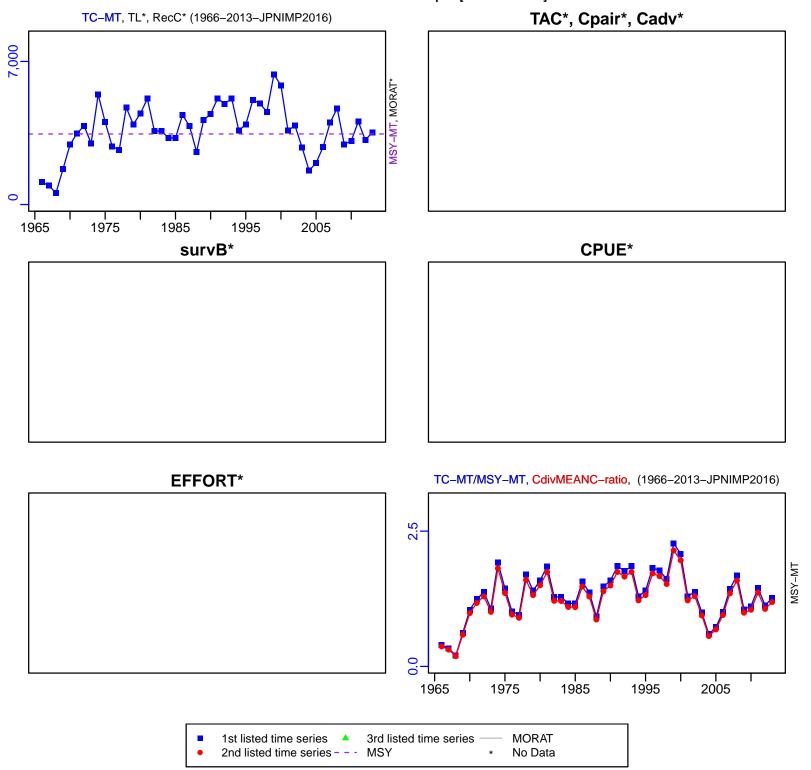
Metadata		
Scientific Name	Cleisthenes herzensteini	
Current Assess ID	FAFRFJ-PHFLOUNSOJ-1966-2013-JPNIMP2016	
Area	Sea of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	9285
SSBmsy	SSBmsy-MT	2013	4113
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.319
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	2962
М	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Se	eries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	8850	-	1
SSB	SSB-MT	2013	3490	Both	3
TN	-	-	-	-	-
R	R-E00	2013	4.1×10^{7}	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.342	-	-
TC	TC-MT	2013	3030		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.953		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.849		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.073		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







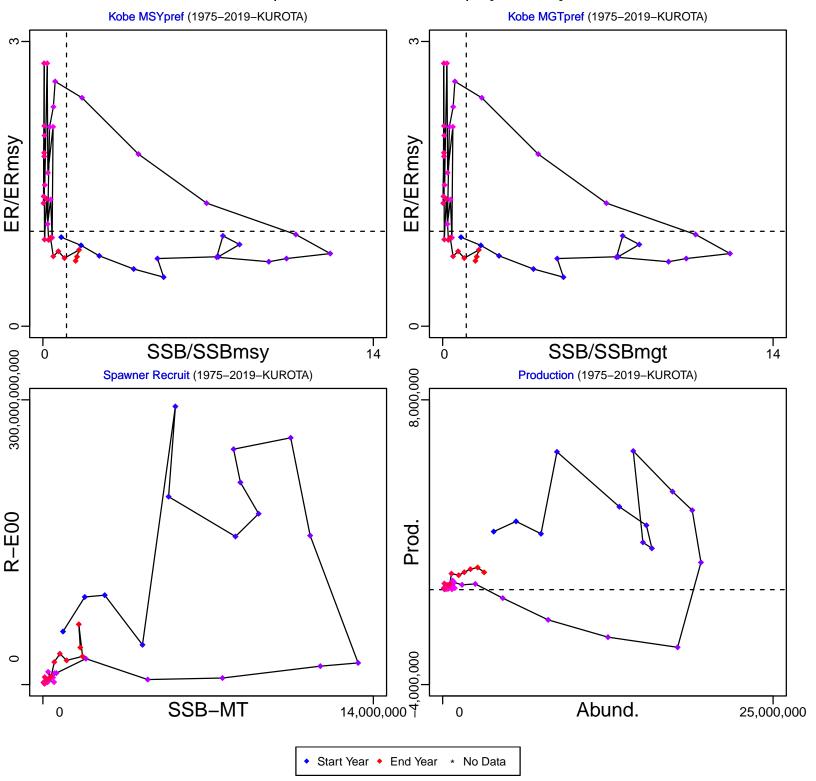
Japanese sardine Pacific Coast of Japan [PILCHPJPN]

Metadata		
Scientific Name	Sardinops melanostictus	
Current Assess ID	FAFRFJ-PILCHPJPN-1975-2019-KUROTA	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013, 2019, 2009	

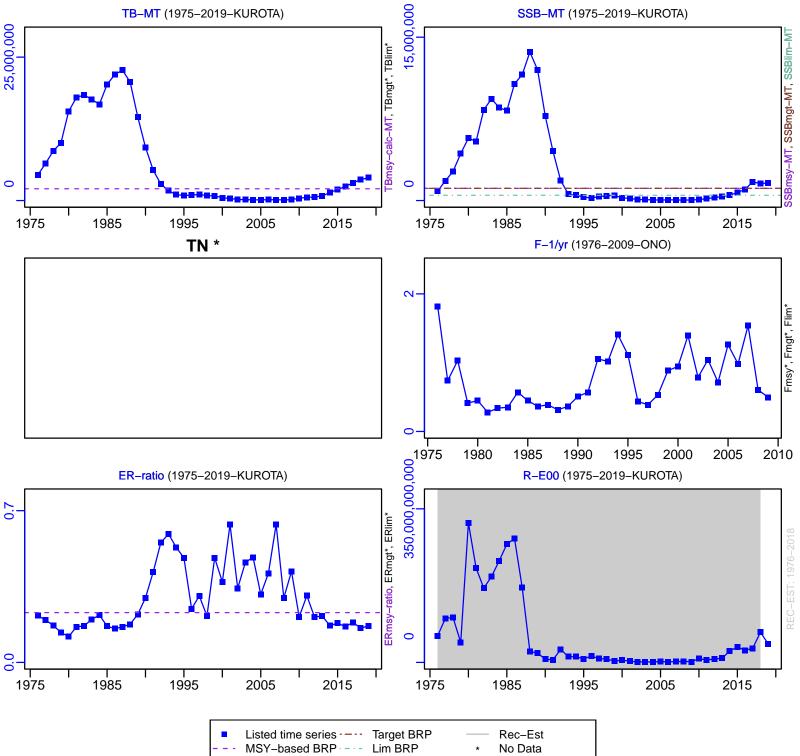
Reference Points			
Туре	ID Asn		Value
TBmsy	TBmsy-calc-MT	2019	1,760,766
SSBmsy	SSBmsy-MT	2019	1,097,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	0.209
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	1,097,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	368,000
M	M-1/yr	2019	0.4
TBlim	TBlim-MT	2009	221
SSBlim	SSBlim-MT	2019	471,000
Flim	-	-	-
ERlim	-	-	-

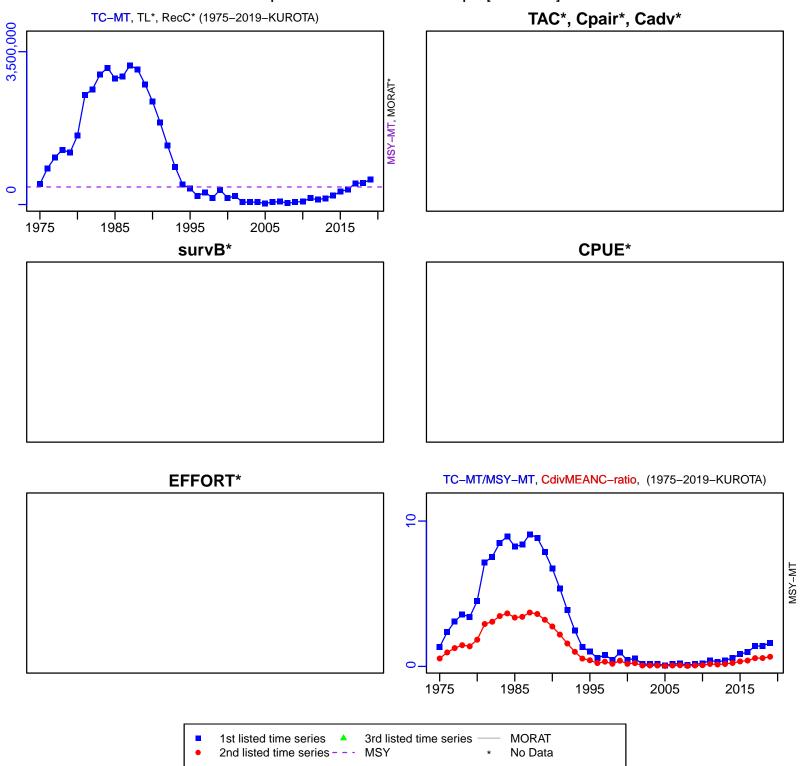
	Time	Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	3,415,000	-	0
SSB	SSB-MT	2019	1,585,000	-	1
TN	-	-	-	-	-
R	R-E00	2019	3.91×10^{10}	-	0
F	F-1/yr	2009	0.41	Both	0 to 4
ER	ER-ratio	2019	0.153	-	-
TC	TC-MT	2019	521,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	1.939		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.445		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.732		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.445		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese sardine Pacific Coast of Japan [PILCHPJPN]



Japanese sardine Pacific Coast of Japan [PILCHPJPN]

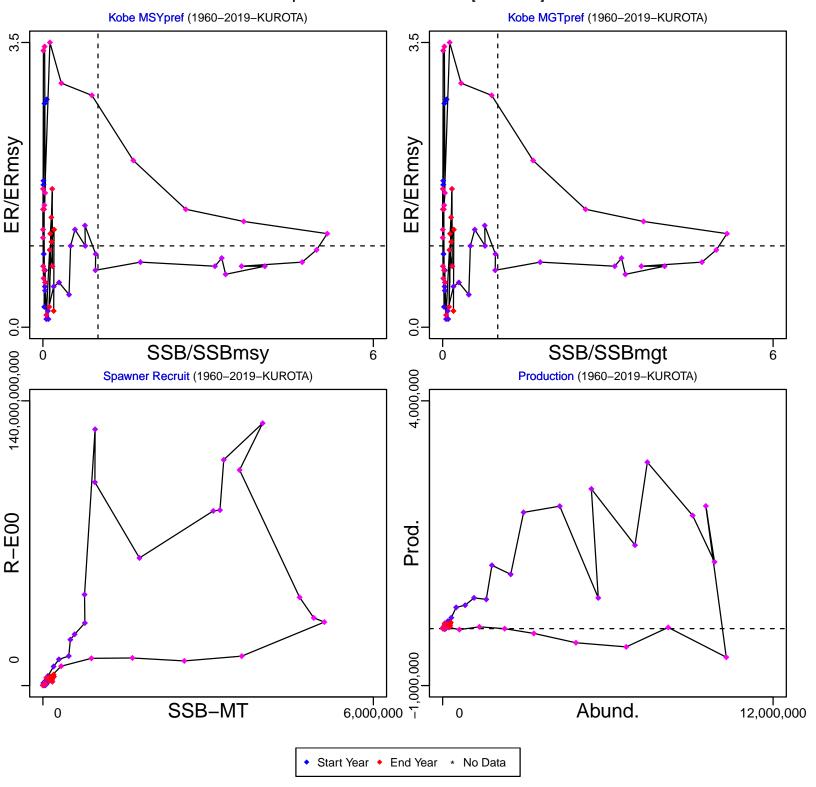


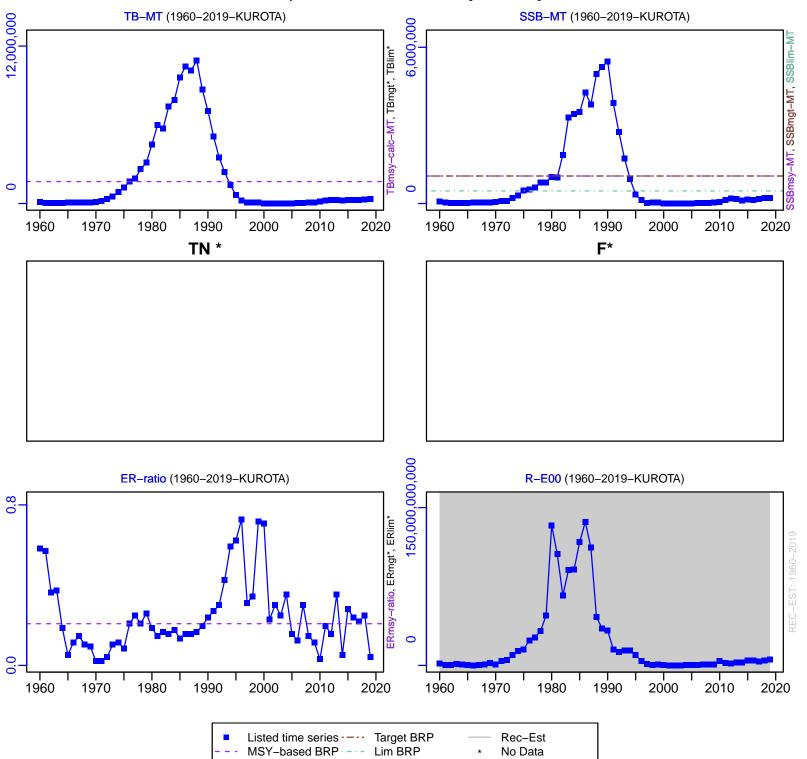


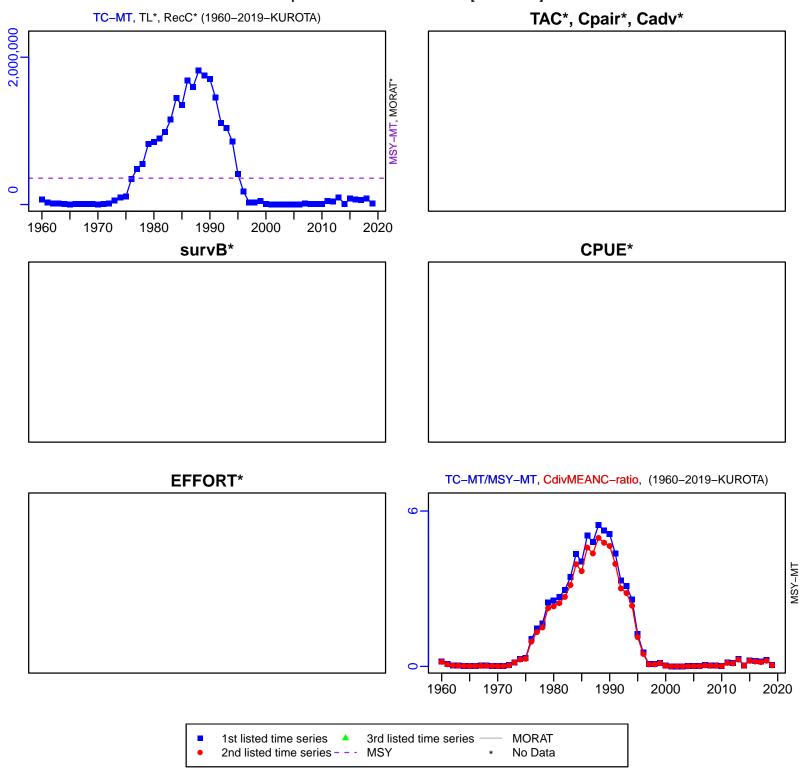
Metadata		
Scientific Name	Sardinops melanostictus	
Current Assess ID	FAFRFJ-PILCHTSST-1960-2019-KUROTA	
Area	Tsushima Strait	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2010, 2013, 2019	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	1,580,000
SSBmsy	SSBmsy-MT	2019	990,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	0.2
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	990,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	316,000
М	M-1/yr	2019	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	454,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	329,000	-	0
SSB	SSB-MT	2019	194,000	-	1
TN	-	-	-	-	-
R	R-E00	2019	5.374×10^{9}	-	0.00E+00
F	-	-	-	-	-
ER	ER-ratio	2019	0.04	-	-
TC	TC-MT	2019	14,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2019	0.208		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.196		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.2		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.196		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







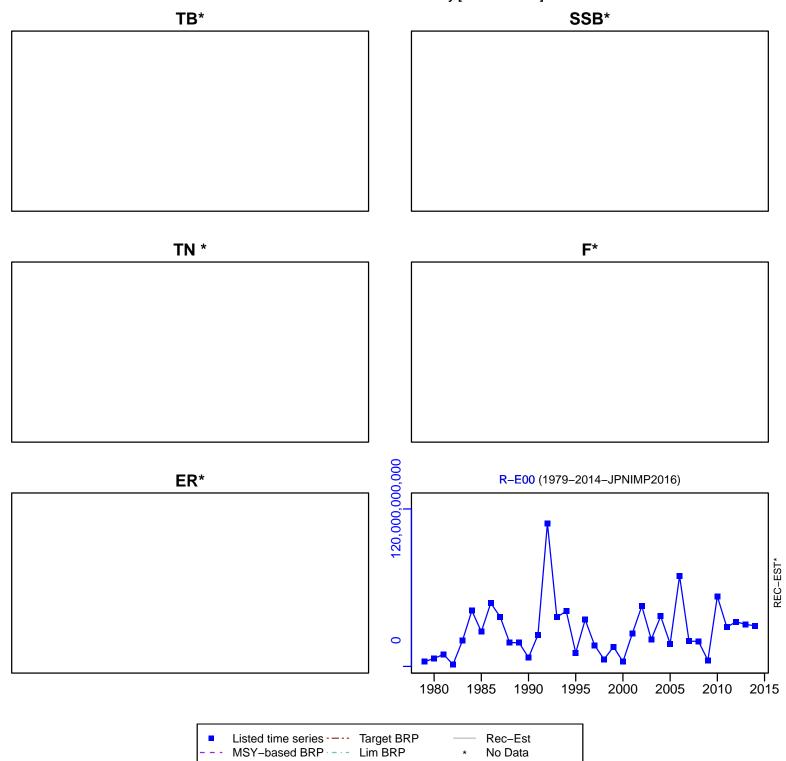
Metadata		
Scientific Name	Ammodytes personatus	
Current Assess ID	FAFRFJ-PSANDLIMKB-1979-2019-KUROTA	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2014, 2019	

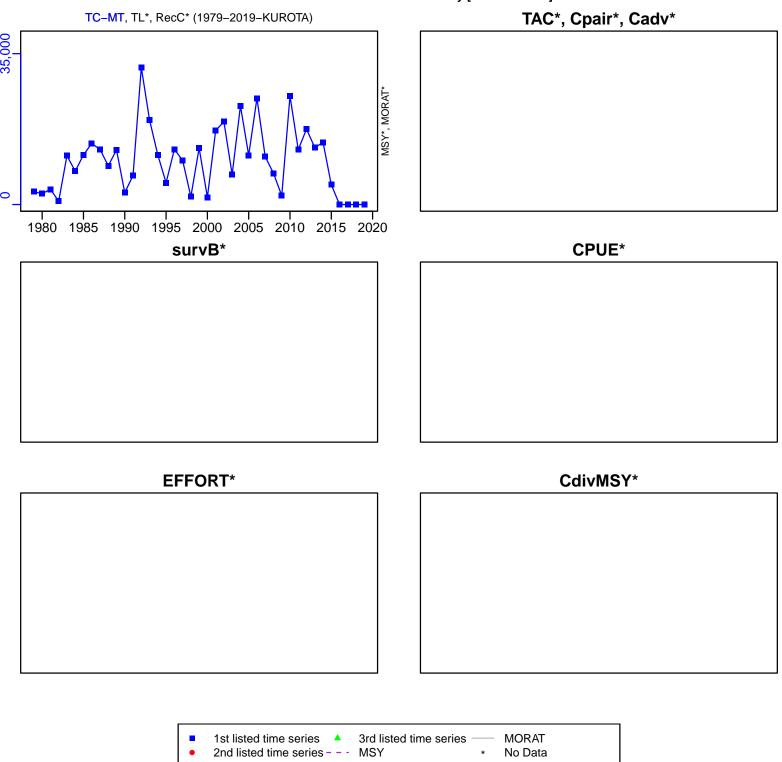
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2014	2.92×10^{10}	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	0		
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





	Metadata
Scientific Name	Ammodytes hexapterus
Current Assess ID	FAFRFJ-PSLANCESYS-1980-2018-KUROTA
Area	Souya Strait
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2018

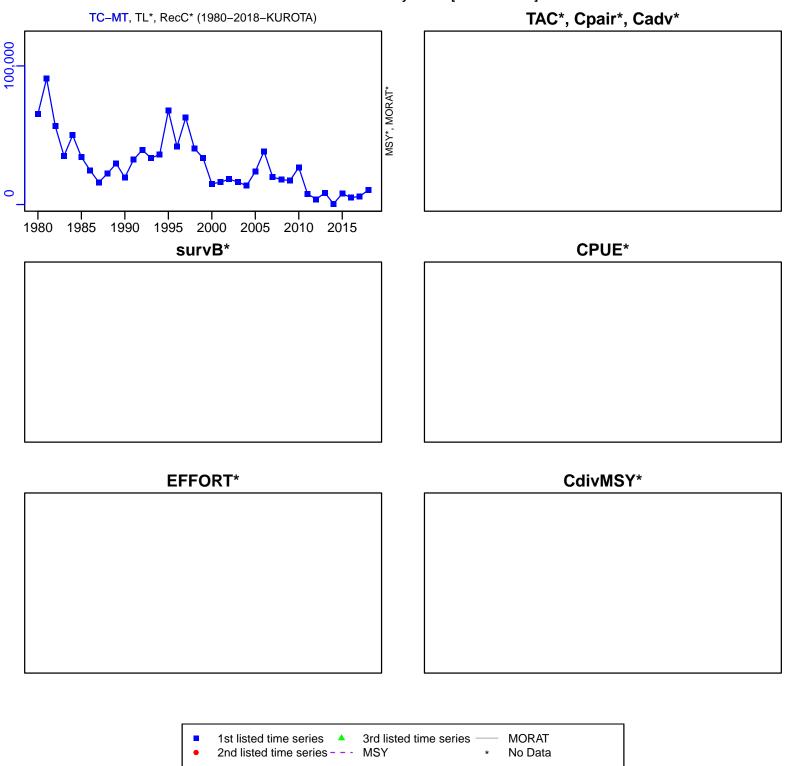
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	8729		
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*	Pooruito*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	m BRP * No Data



Pacific sandlance Inland Sea of Japan (East) [PSLANDLSETOE]

Metadata		
Scientific Name	Ammodytes personatus	
Current Assess ID	FAFRFJ-PSLANDLSETOE-1952-2018-KUROTA	
Area	Inland Sea of Japan (East)	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2018	

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			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	2623		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific sandlance Inland Sea of Japan (East) [PSLANDLSETOE]

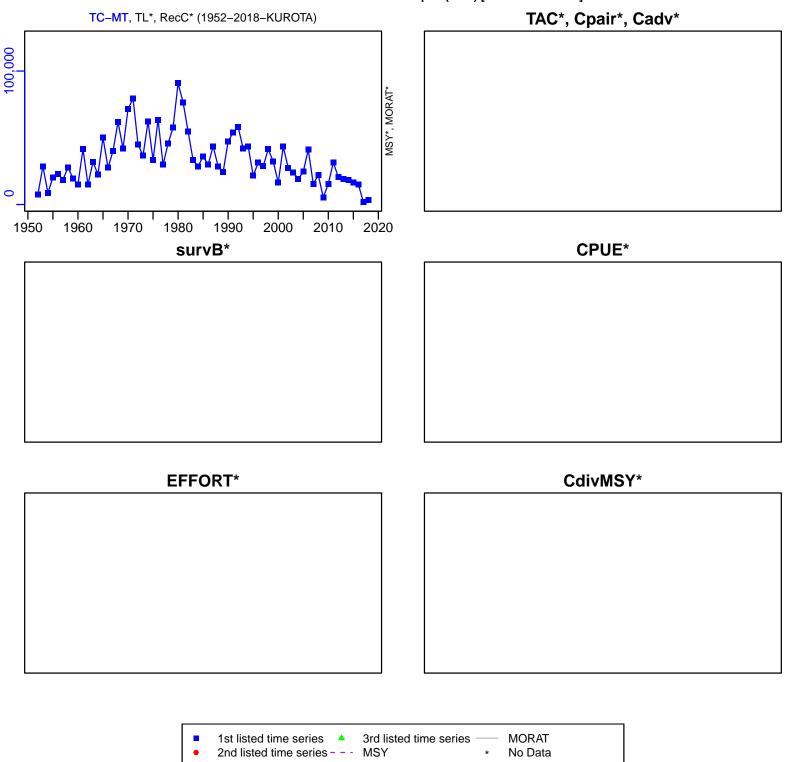
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Pacific sandlance Inland Sea of Japan (East) [PSLANDLSETOE]

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

Pacific sandlance Inland Sea of Japan (East) [PSLANDLSETOE]



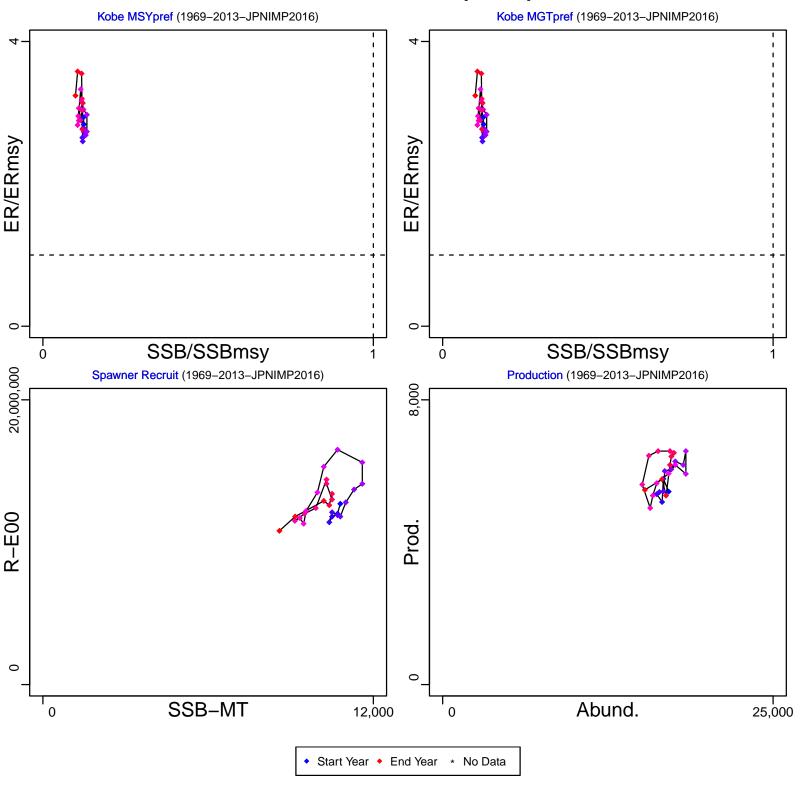
Red seabream East China Sea [RBRMECS]

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

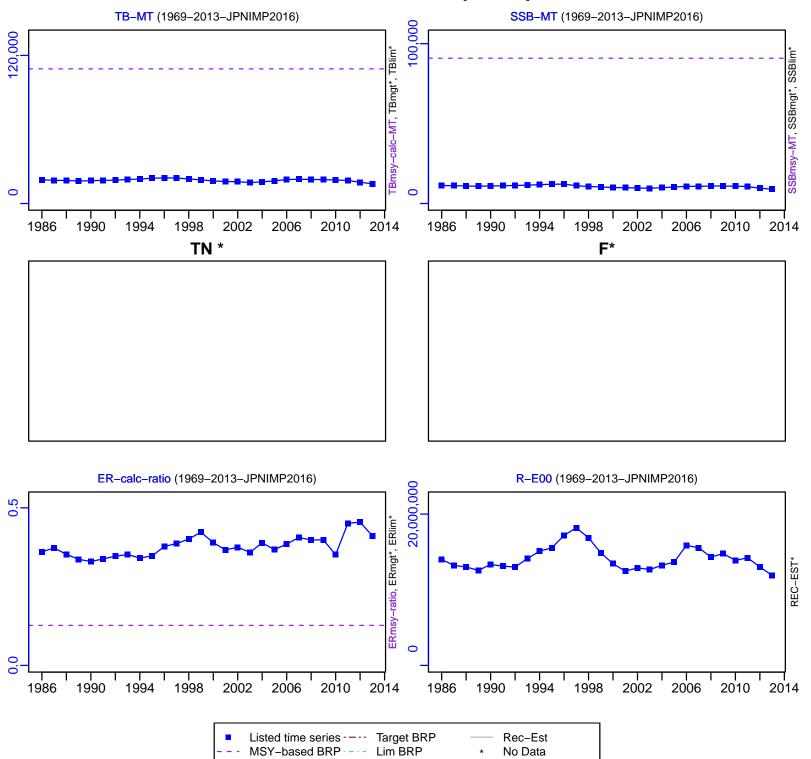
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	96,880	
SSBmsy	SSBmsy-MT	2013	87,132	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.12	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	11,626	
М	M-1/yr	2013	0.125	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	9900	
Flim	-	-	-	
ERlim	-	-	-	

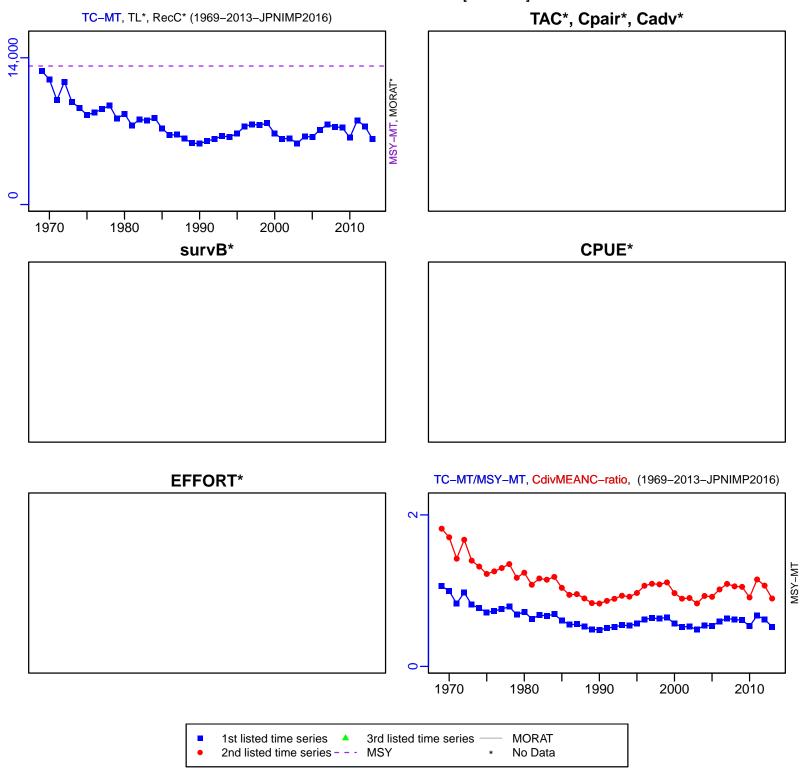
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	14,200	-	1
SSB	SSB-MT	2013	8590	Both	3
TN	-	-	-	-	-
R	R-E00	2013	10,800,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.389	-	-
TC	TC-MT	2013	5520		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.147		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.099		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	3.239		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red seabream East China Sea [RBRMECS]



Red seabream East China Sea [RBRMECS]





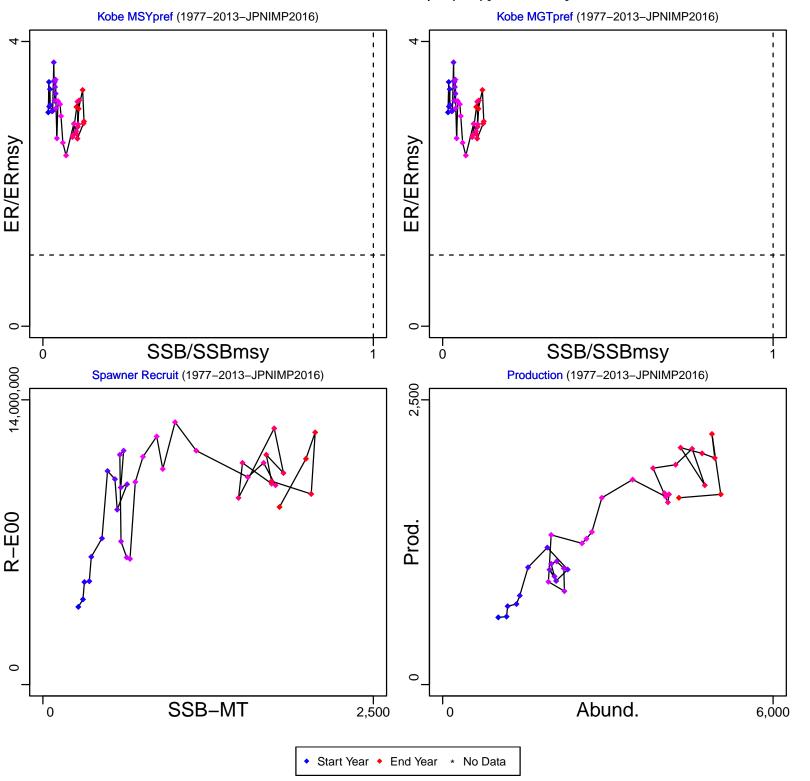
Red seabream Inland Sea of Japan (East) [RBRMSETOE]

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

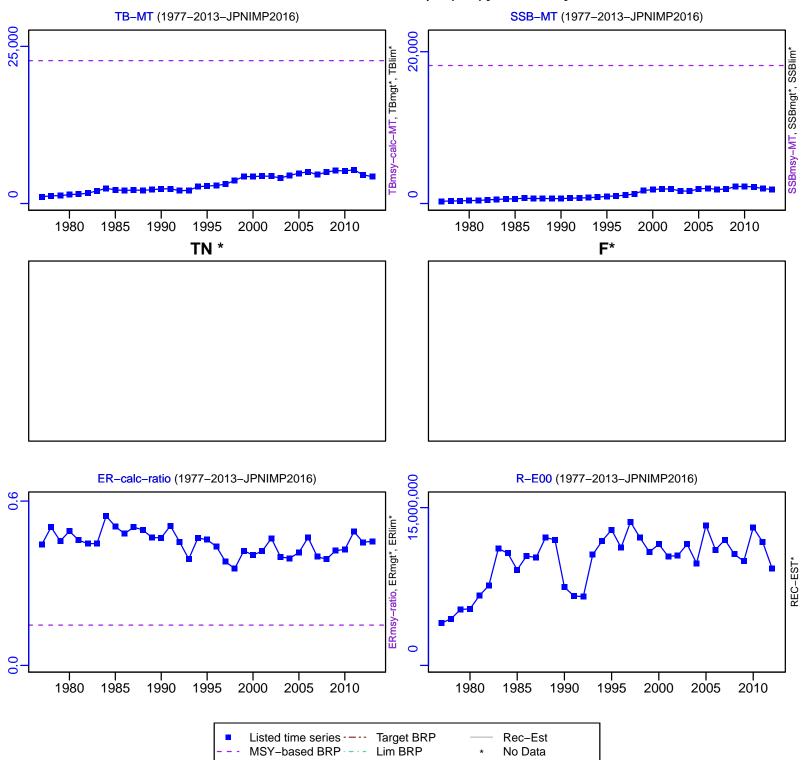
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	21,417	
SSBmsy	SSBmsy-MT	2013	16,552	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.145	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	3106	
М	M-1/yr	2013	0.24	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	304	
Flim	-	-	-	
ERlim	-	-	-	

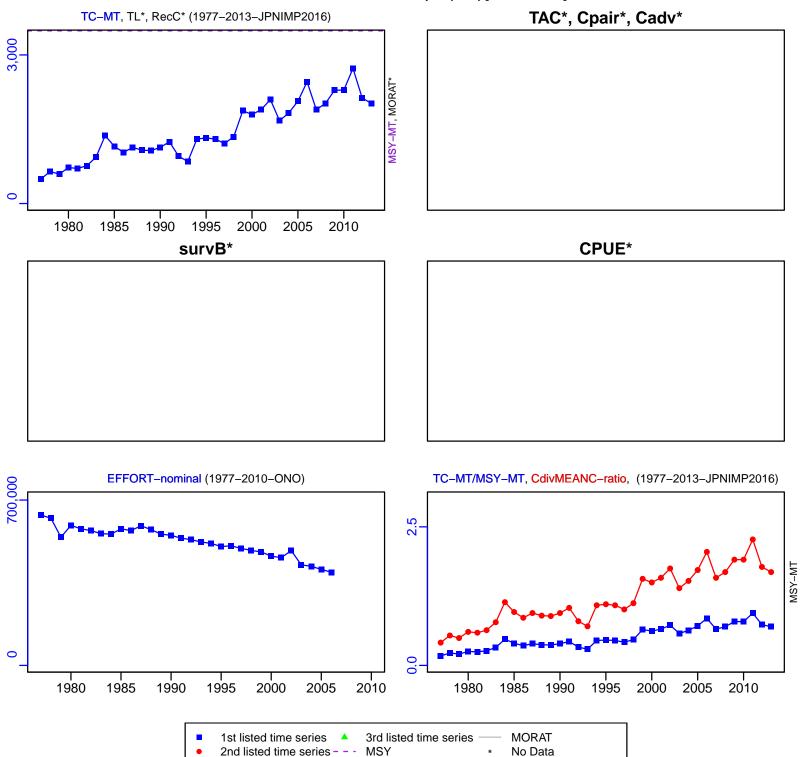
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	4030	-	0
SSB	SSB-MT	2013	1680	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,730,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.447	-	-
TC	TC-MT	2013	1800		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.188		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.101		
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]





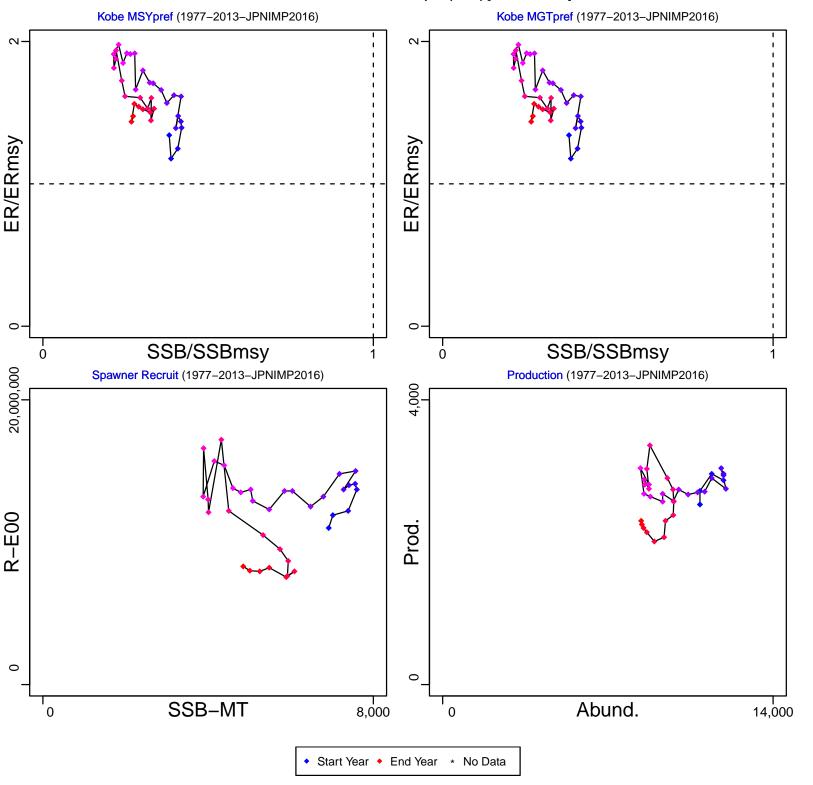
Red seabream Inland Sea of Japan (West) [RBRMSETOW]

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

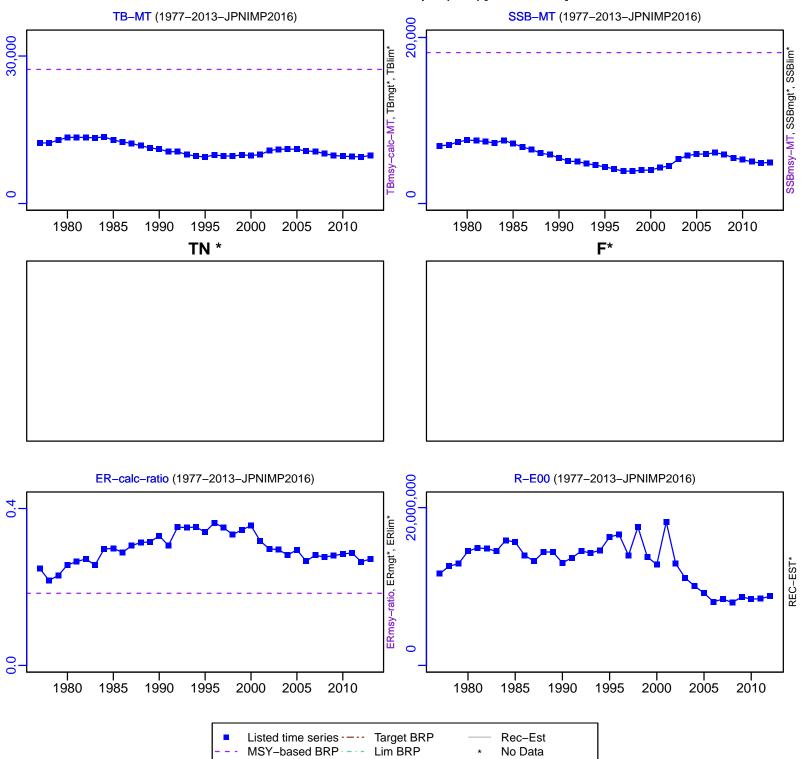
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	24,122	
SSBmsy	SSBmsy-MT	2013	18,103	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.173	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	4173	
М	M-1/yr	2013	0.24	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	4212	
Flim	-	-	-	
ERlim	-	-	-	

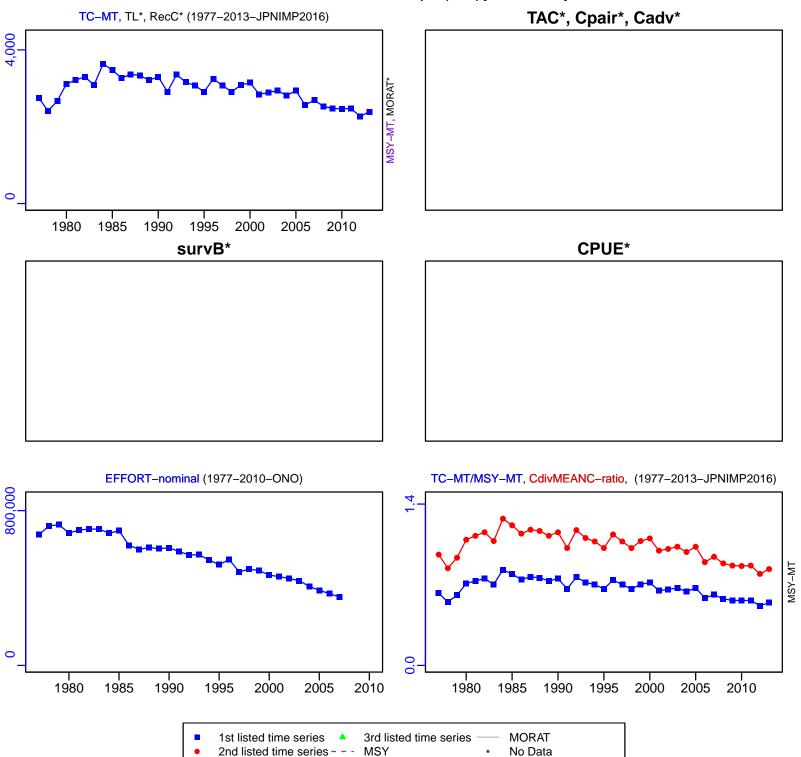
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	8620	-	0
SSB	SSB-MT	2013	4940	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,300,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.255	-	-
TC	TC-MT	2013	2200		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.357		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.273		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.475		
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	FAFRFJ-RHERRPAC-1985-2018-KUROTA		
Area	Pacific Ocean		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2018		

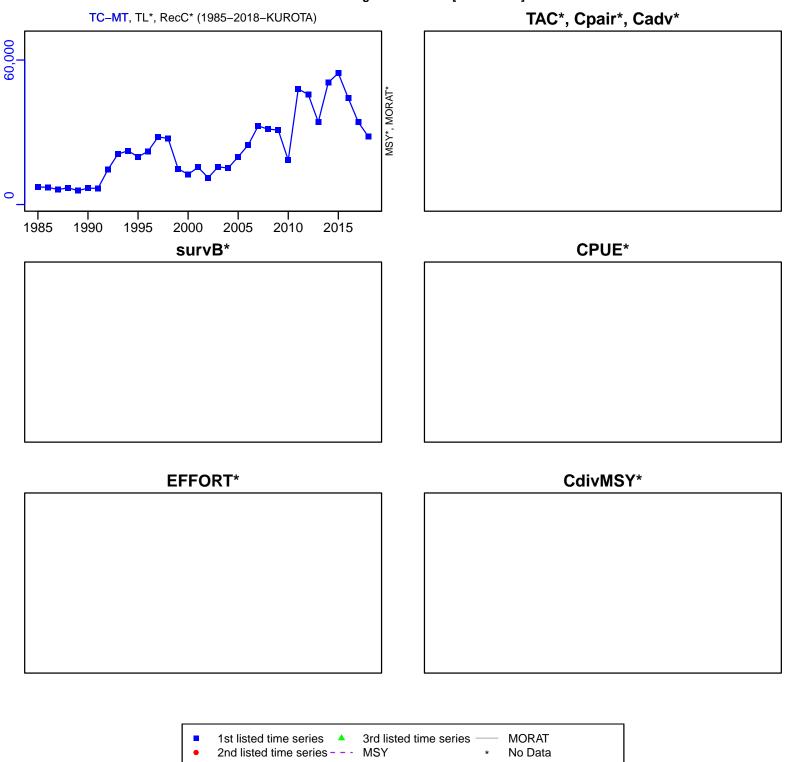
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2018	0.7	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2018	24,466			
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

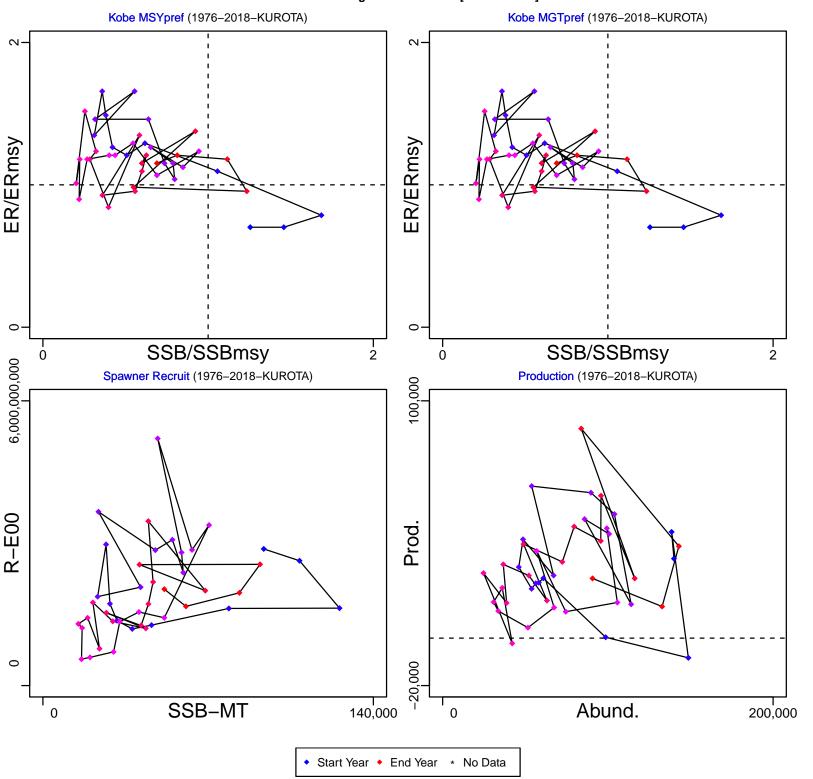
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

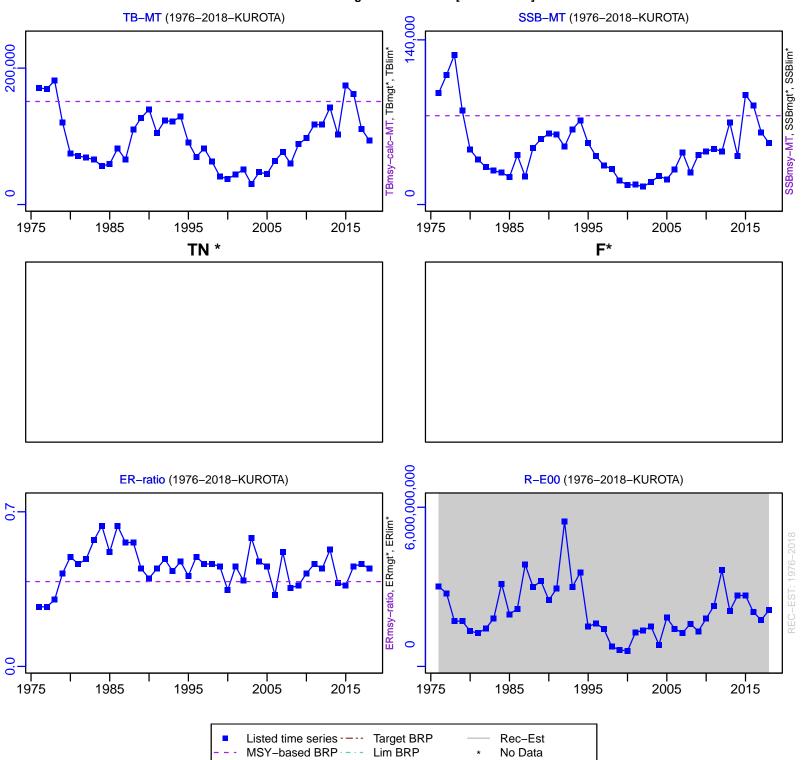


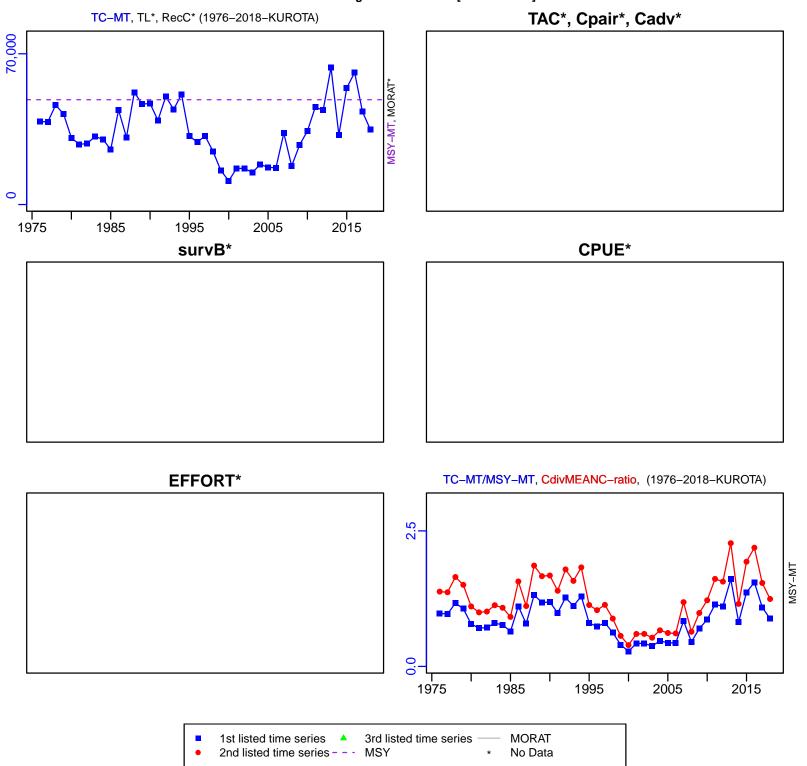
Metadata			
Scientific Name	Etrumeus teres		
Current Assess ID	FAFRFJ-RHERRTSST-1976-2018-KUROTA		
Area	Tsushima Strait		
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2018		

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2018	123,572			
SSBmsy	SSBmsy-MT	2018	74,564			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2018	0.356			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2018	43,992			
М	M-1/yr	2018	0.7			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	76,901	Both	0
SSB	SSB-MT	2018	51,446	Both	1
TN	-	-	-	-	-
R	R-E00	2018	2,031,250,000	Both	0
F	-	-	-	-	-
ER	ER-ratio	2018	0.41	Both	-
TC	TC-MT	2018	31,481		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2018	0.622		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.69		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	1.152		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







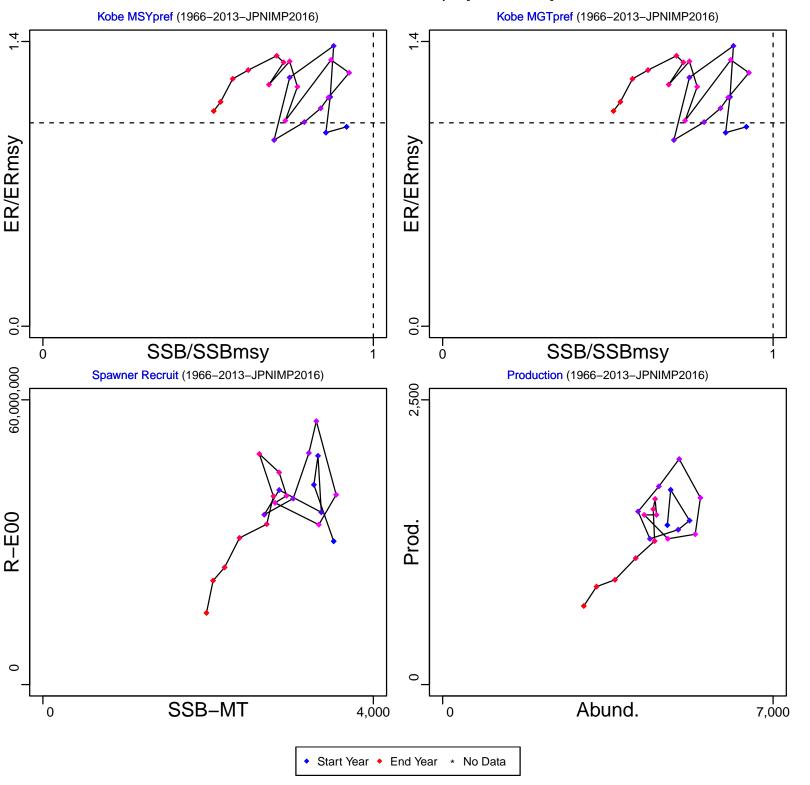
Round nose flounder Sea of Japan [RSFLOUNSOJ]

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

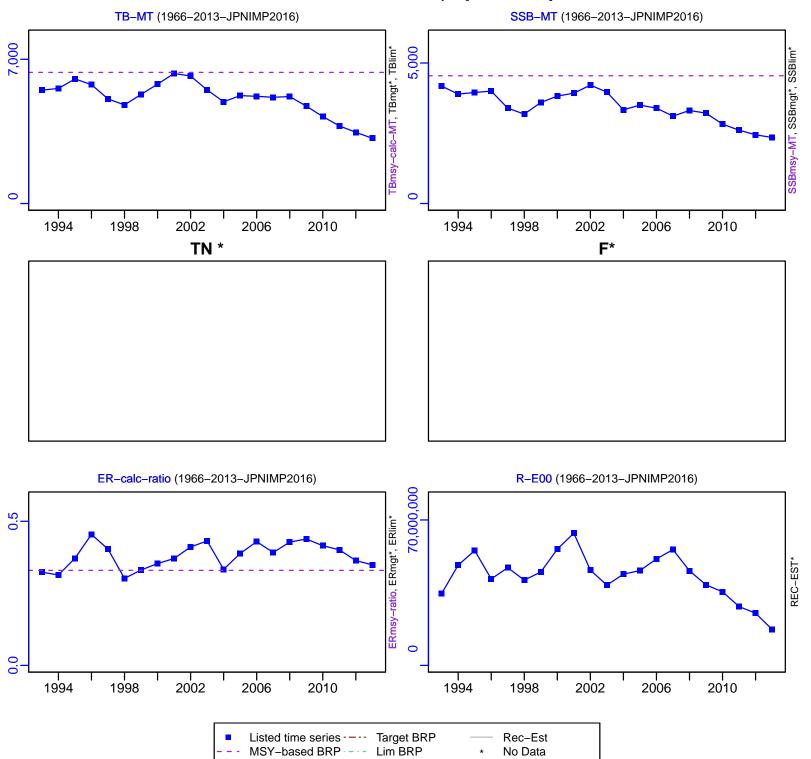
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2013	5504			
SSBmsy	SSBmsy-MT	2013	3830			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2013	0.285			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2013	1569			
М	M-1/yr	2013	0.35			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

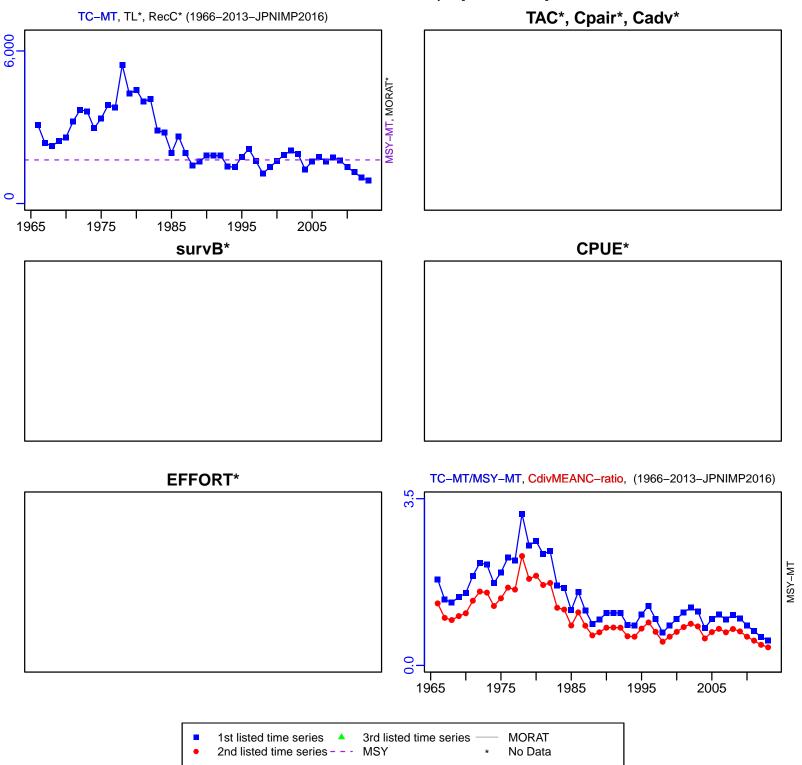
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2013	2740	-	1	
SSB	SSB-MT	2013	1980	Both	3	
TN	-	-	-	-	-	
R	R-E00	2013	15,100,000	-	1	
F	-	-	-	-	-	
ER	ER-calc-ratio	2013	0.301	-	-	
TC	TC-MT	2013	826			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.498			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.517			
F/Fmsy	-	-	-			
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.058			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Round nose flounder Sea of Japan [RSFLOUNSOJ]



Round nose flounder Sea of Japan [RSFLOUNSOJ]





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

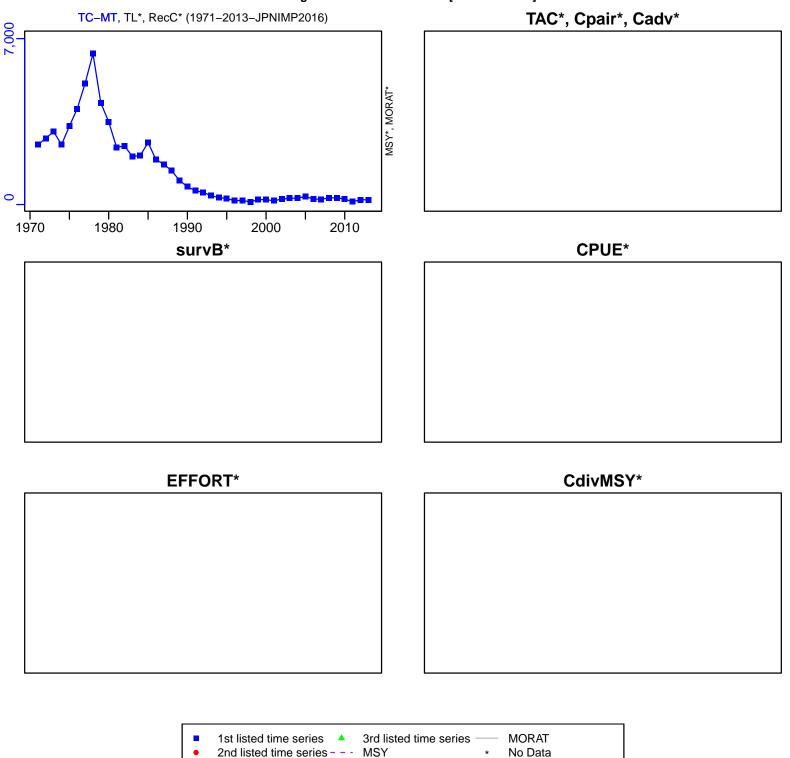
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2013	197			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spannor Restain	1 1044511611
opannor reorait	
opannor recordic	
opannor nooran	
opannor nooran	
opannor nooran	

◆ Start Year ◆ End Year * No Data

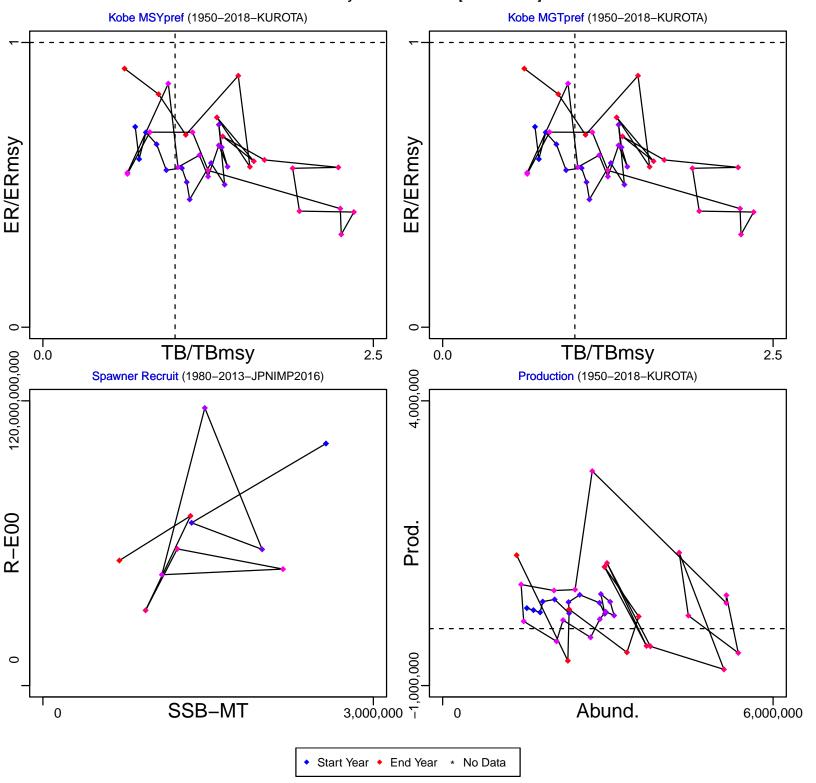
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m BRP * No Data

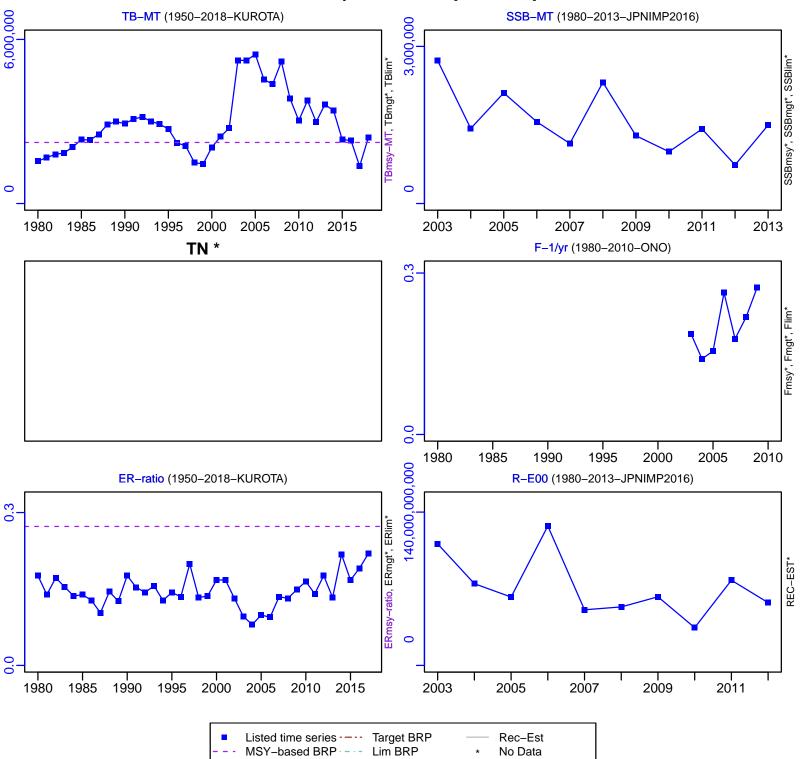


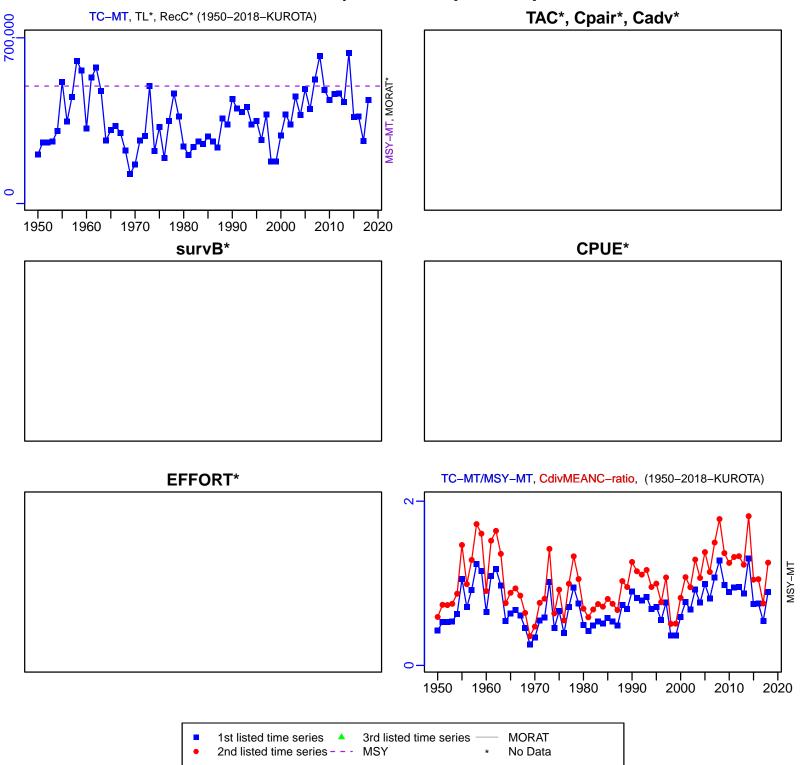
	Metadata
Scientific Name	Cololabis saira
Current Assess ID	NPFC-SAURNWPAC-1950-2018-KUROTA
Area	Northwest Pacific
Management Authority	North Pacific Fisheries Commission
Assessor	North Pacific Fisheries Commission
Asmts in RAM	2018, 2010, 2013

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2018	2,197,000
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2018	0.25
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	493,000
M	M-1/yr	2013	1.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Se	ries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	2,370,522	-	0
SSB	SSB-MT	2013	1,410,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	5.27×10^{10}	-	0
F	F-1/yr	2010	0.264	-	0 to 1
ER	ER-ratio	2018	0.201	-	-
TC	TC-MT	2018	435,351		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2018	0.985		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2018	0.908		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Shako Ise and Mikawa Bay [SHAKOIMKB]

Metadata		
Scientific Name	Oratosquilla oratoria	
Current Assess ID	FAFRFJ-SHAKOIMKB-1970-2013-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research 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			
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	282		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shako Ise and Mikawa Bay [SHAKOIMKB]

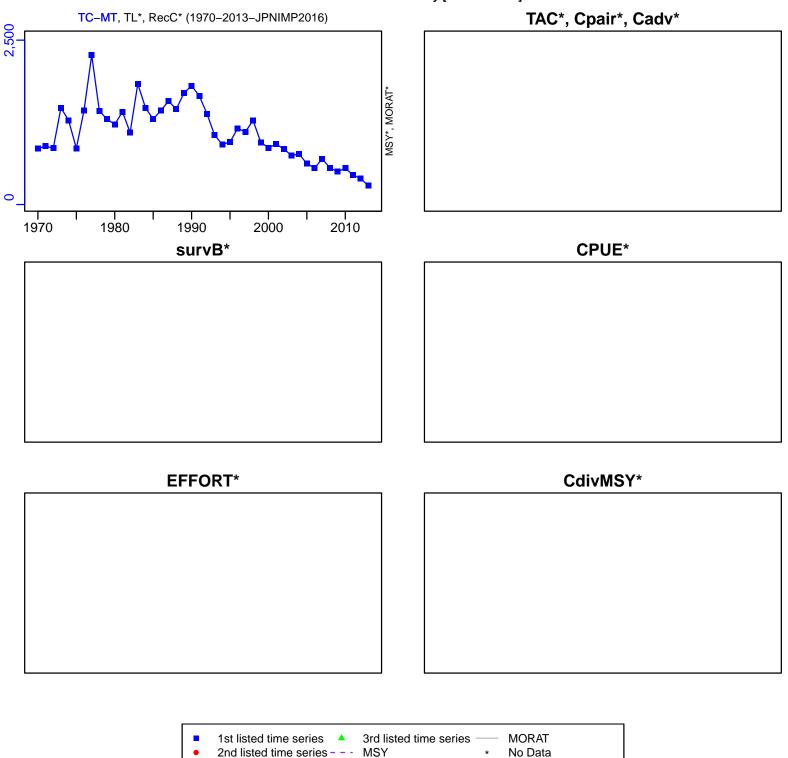
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
-	

◆ Start Year ◆ End Year * No Data

Shako Ise and Mikawa Bay [SHAKOIMKB]

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

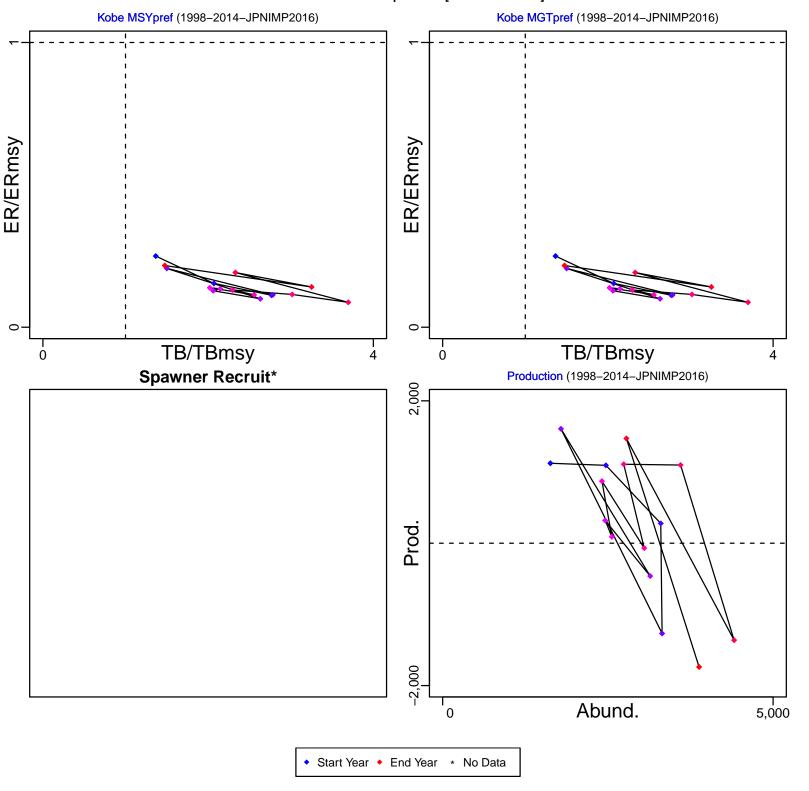
Shako Ise and Mikawa Bay [SHAKOIMKB]

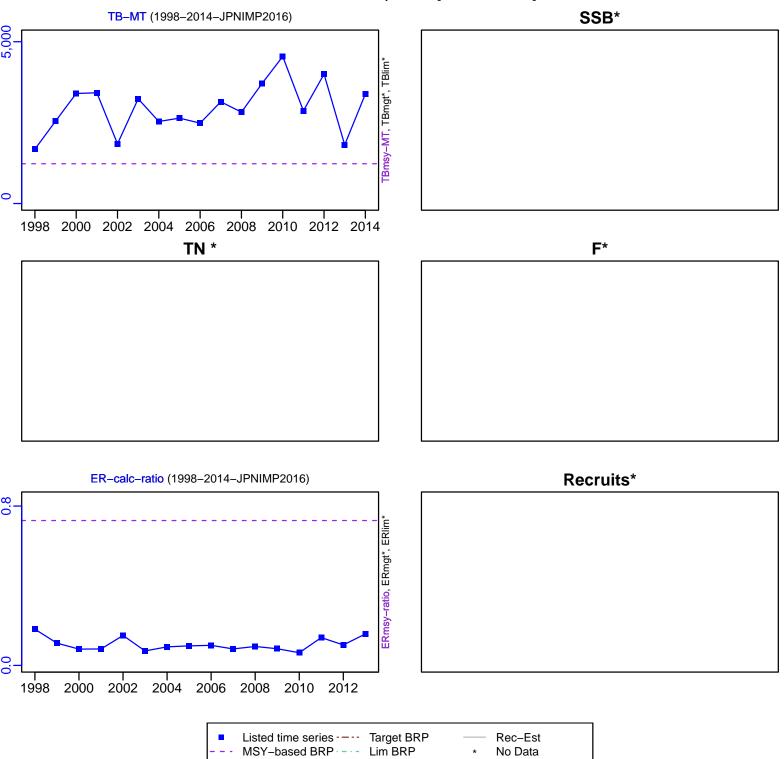


Metadata		
Scientific Name	Chionoecetes opilio	
Current Assess ID	FAFRFJ-SNOWCRABESJ-1998-2014-JPNIMP2016	
Area Sea of Japan East		
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2014	

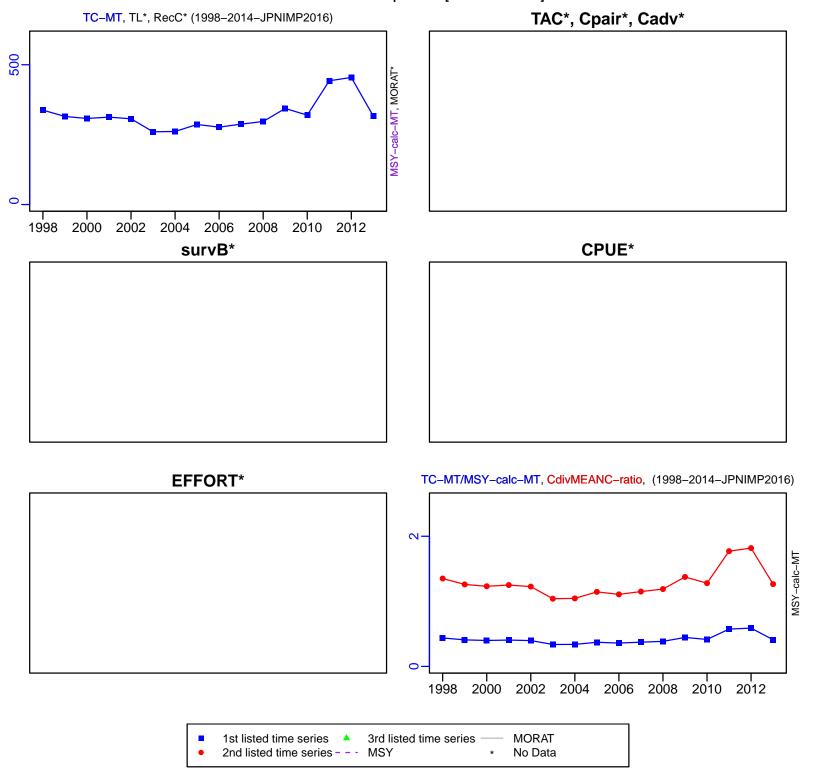
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2014	1193		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2014	0.695		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2014	829		
М	M-1/yr	2014	0.35		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
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	0.151	-	-
TC	TC-MT	2014	265		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	2.749		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.217		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



Metadata		
Scientific Name	Chionoecetes opilio	
Current Assess ID	FAFRFJ-SNOWCRABHOKK-1986-2013-JPNIMP2016	
Area Hokkaido		
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

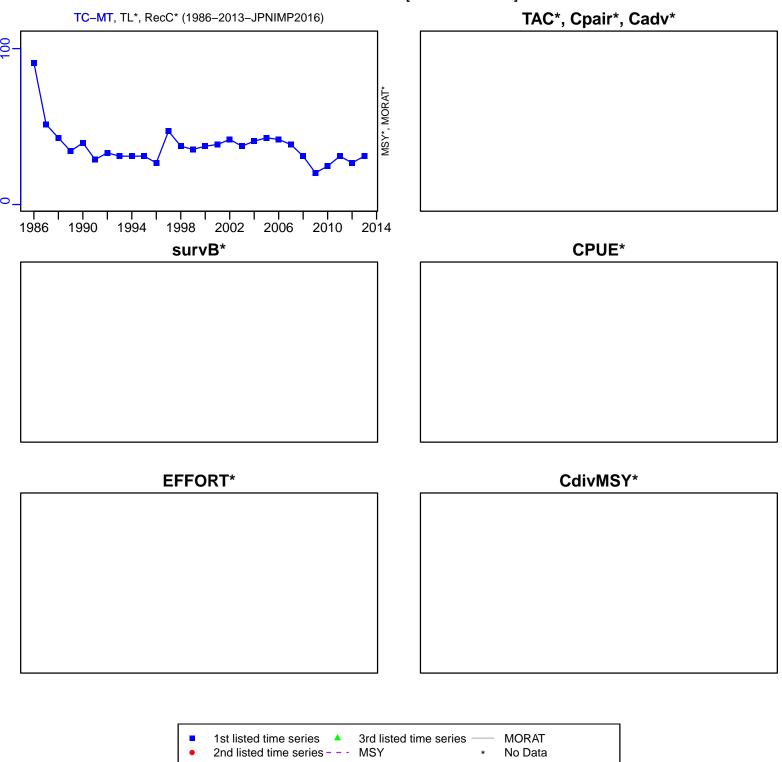
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.35		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	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

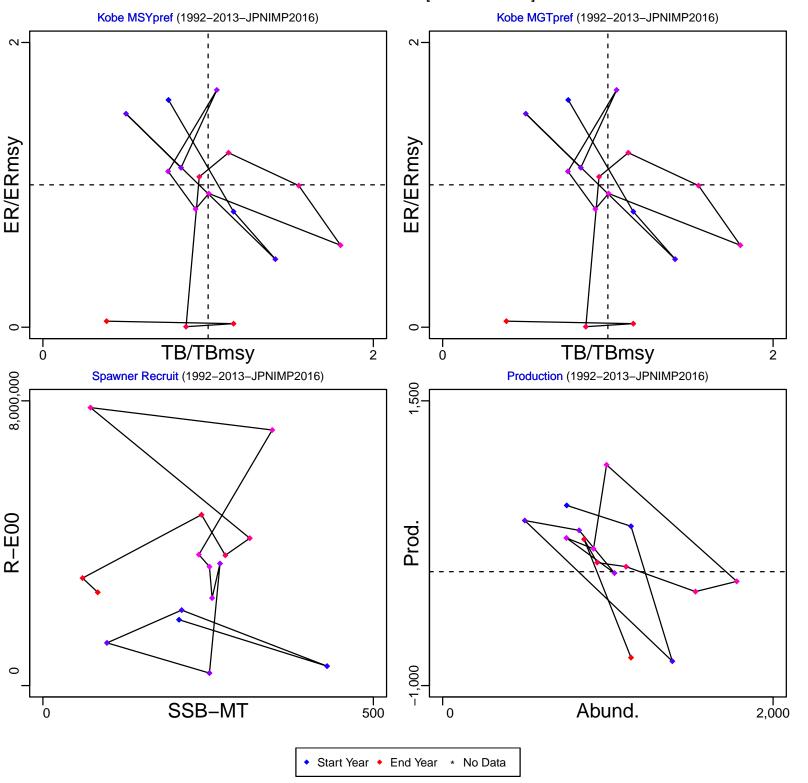
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

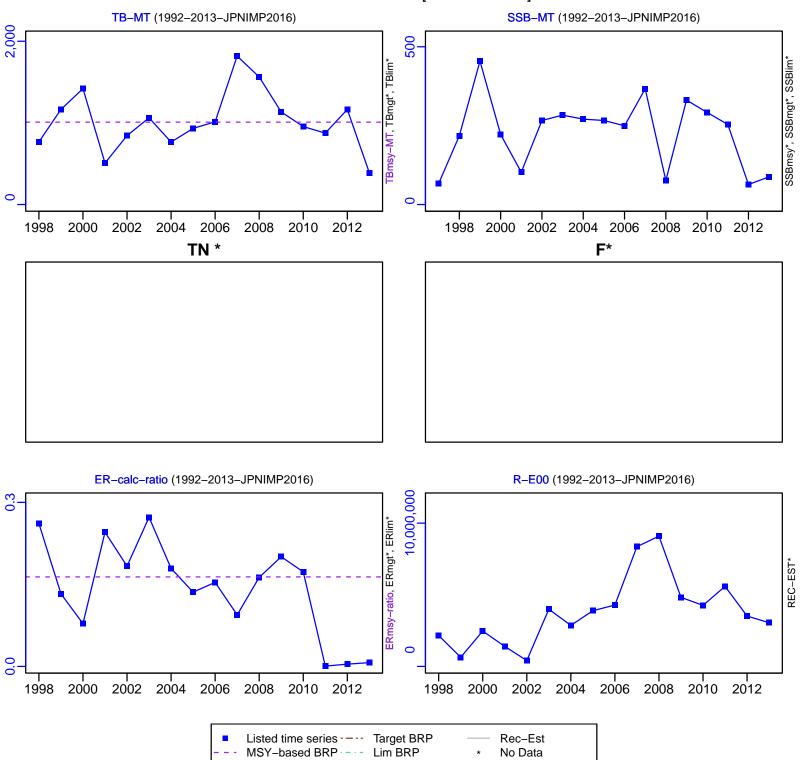


Metadata		
Scientific Name	Chionoecetes opilio	
Current Assess ID	FAFRFJ-SNOWCRABNPAC-1992-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

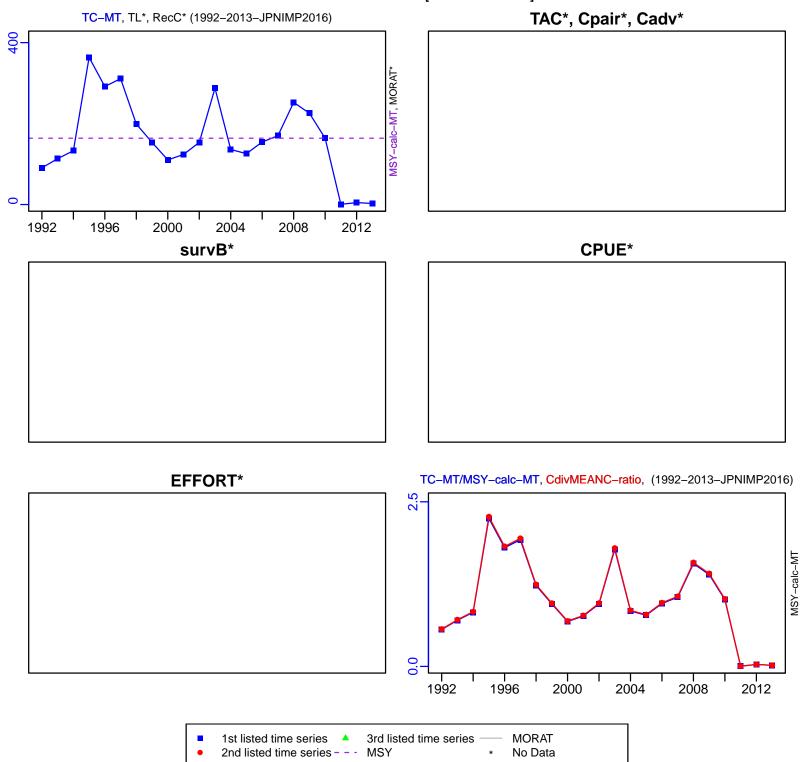
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2013	988	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.161	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-calc-MT	2013	159	
M	M-1/yr	2013	0.35	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.007	-	-
TC	TC-MT	2013	2.6		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	0.386		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.042		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	FAFRFJ-SNOWCRABOKS-1985-2013-JPNIMP2016
Area	Okhotsk Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

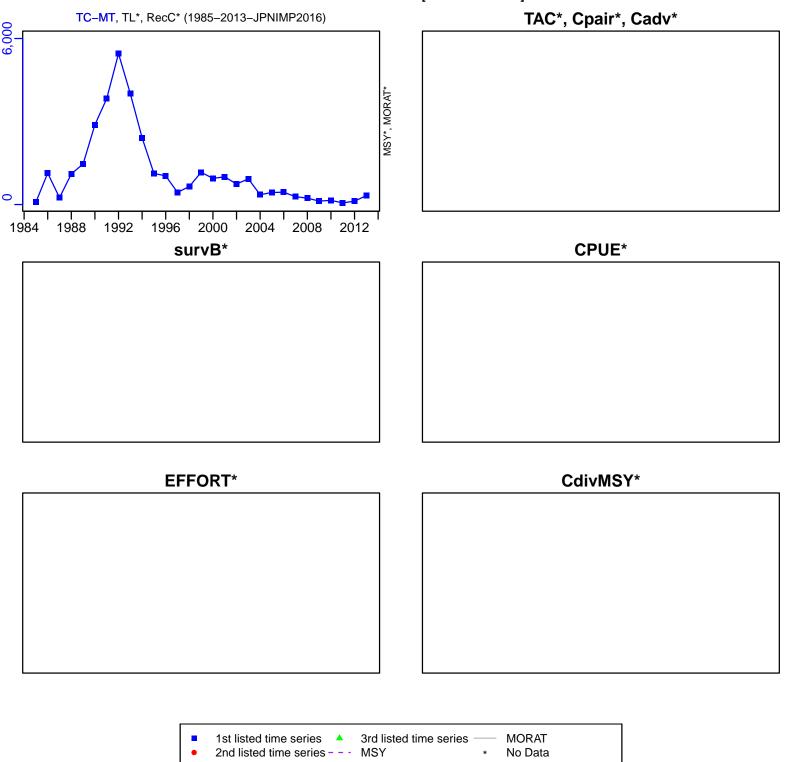
	Referen	ce Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		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*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

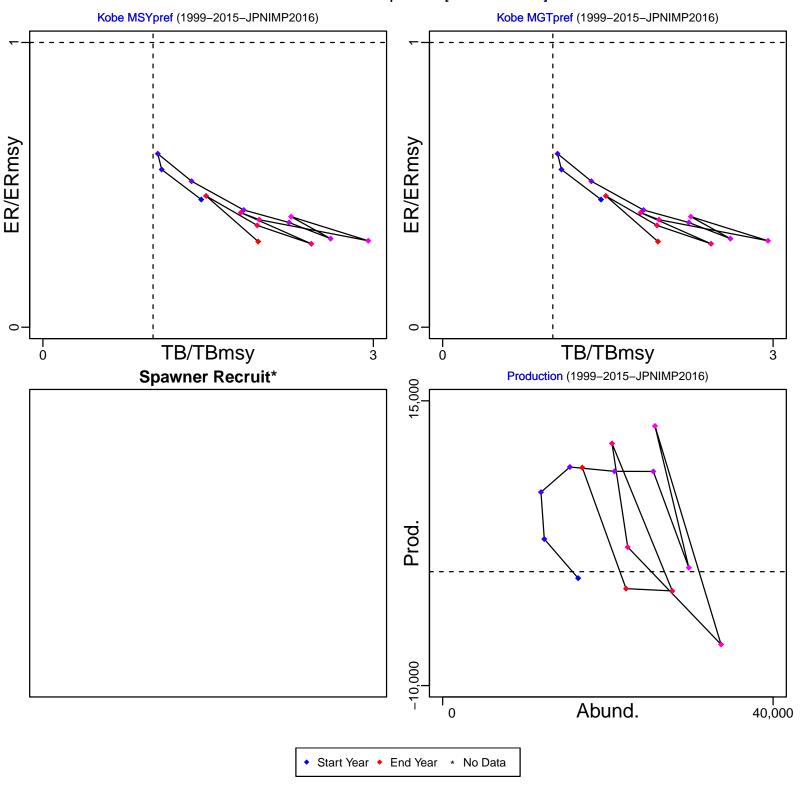
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

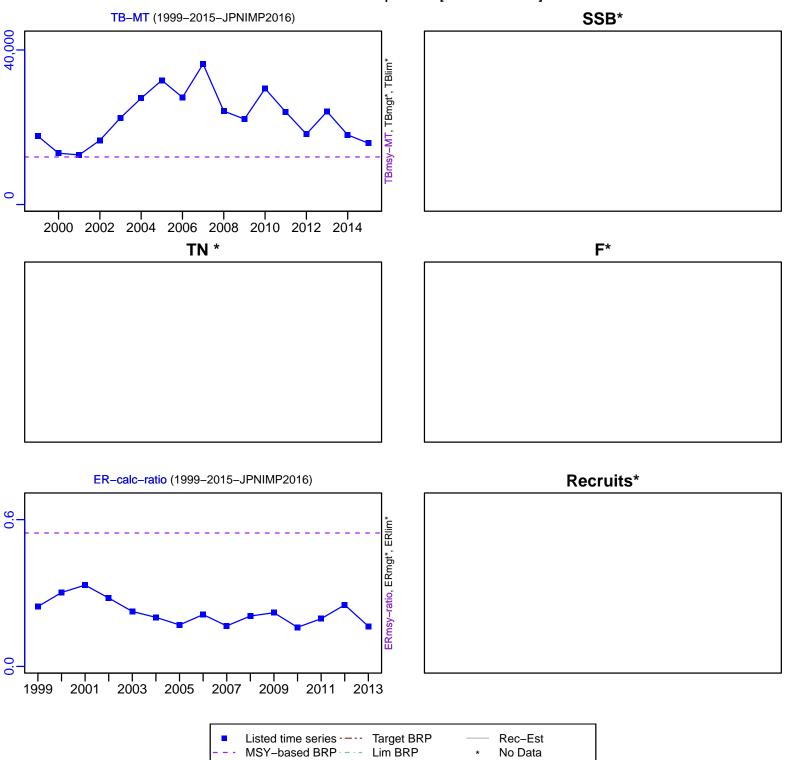


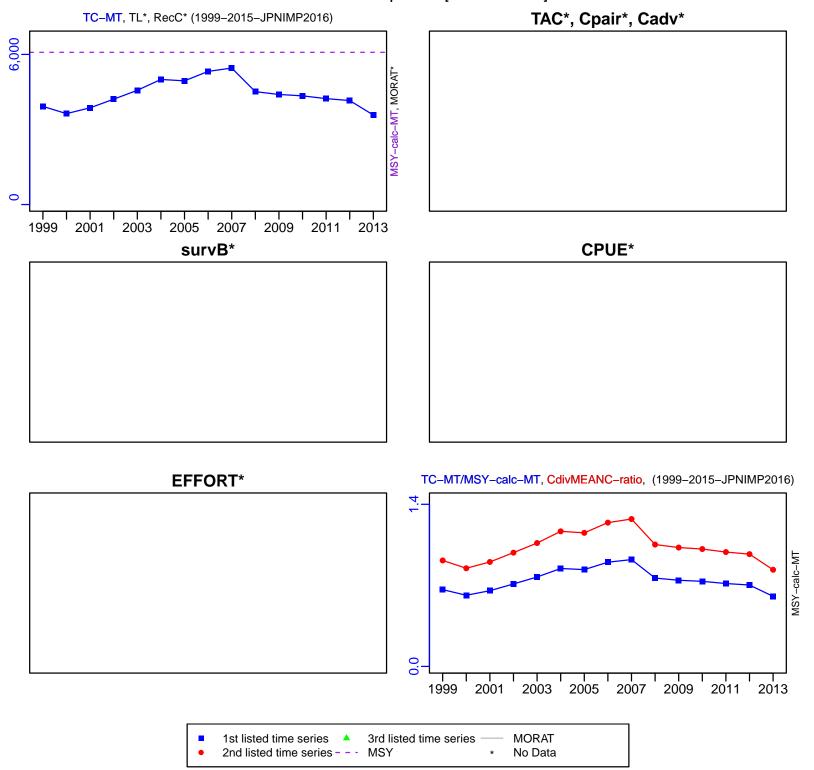
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	FAFRFJ-SNOWCRABWSJ-1999-2015-JPNIMP2016
Area	Sea of Japan West
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2015

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	
M	M-1/yr	2015	0.35	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Se	ries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	14,700	-	6
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0.144	-	-
TC	TC-MT	2015	3220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	1.289		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2015	0.301		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







	Metadata
Scientific Name	Scomberomorus niphonius
Current Assess ID	FAFRFJ-SPANMACKECS-1984-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

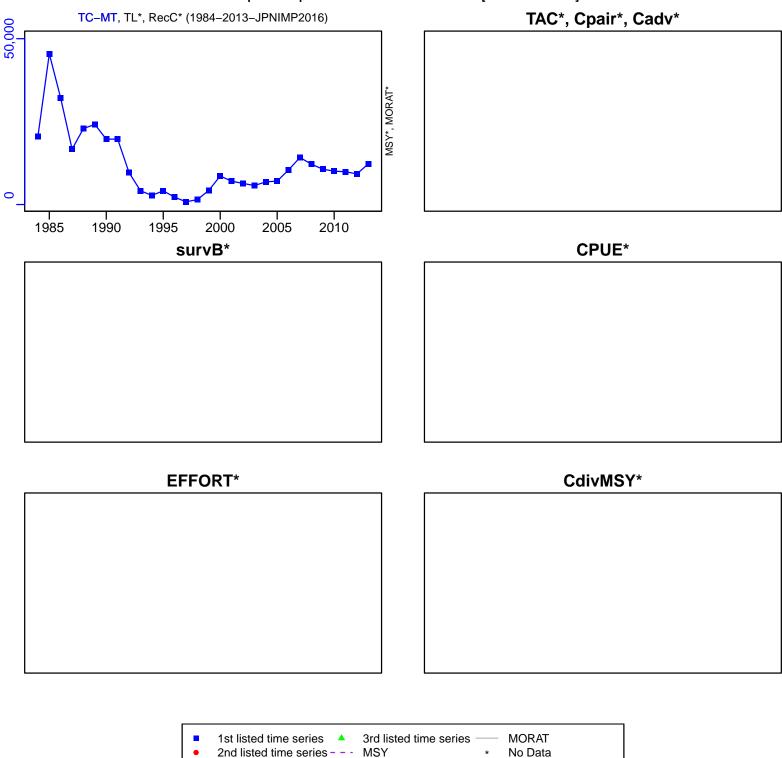
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
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*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

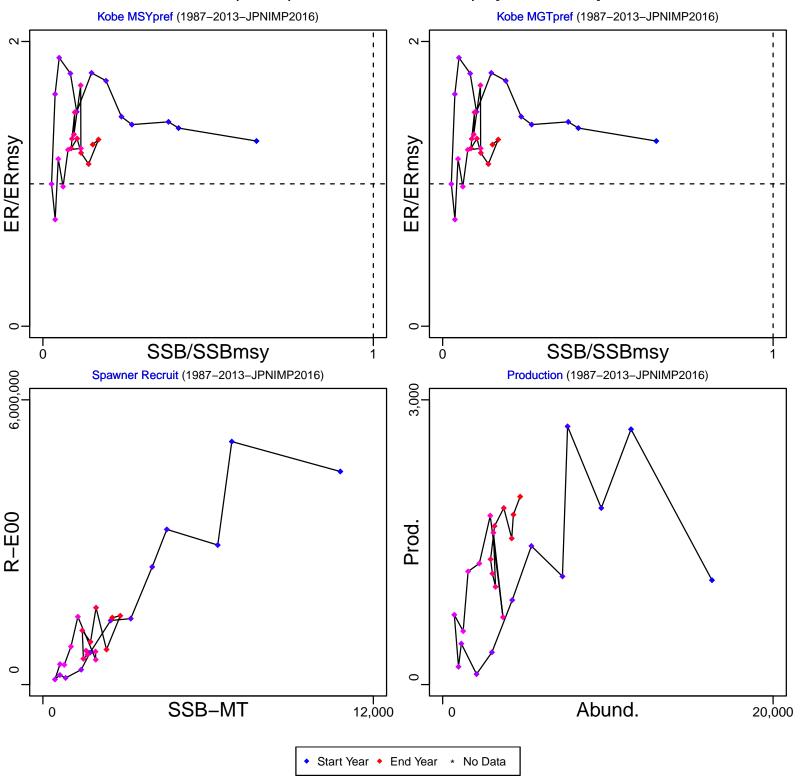
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

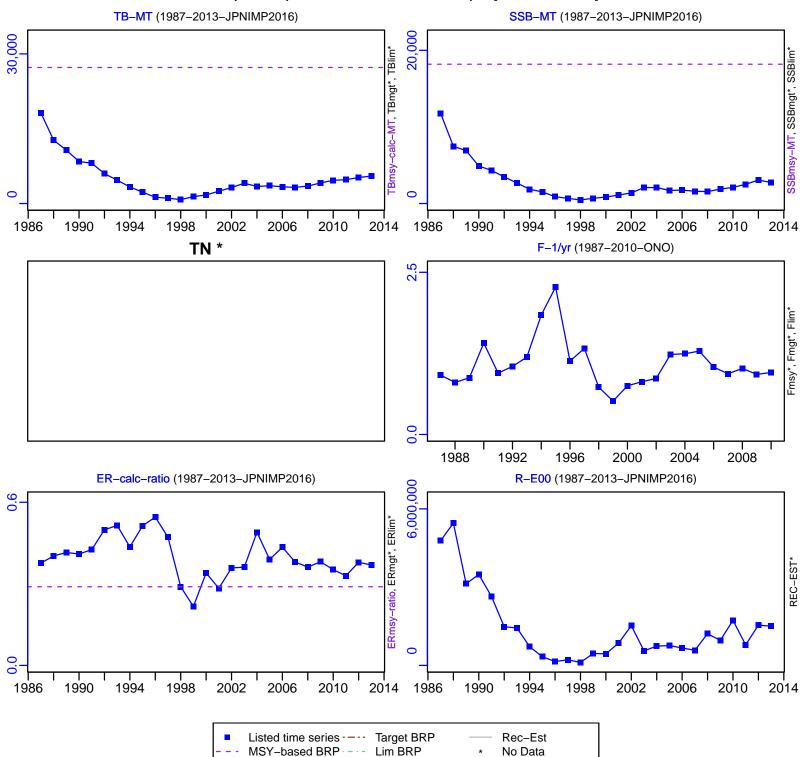


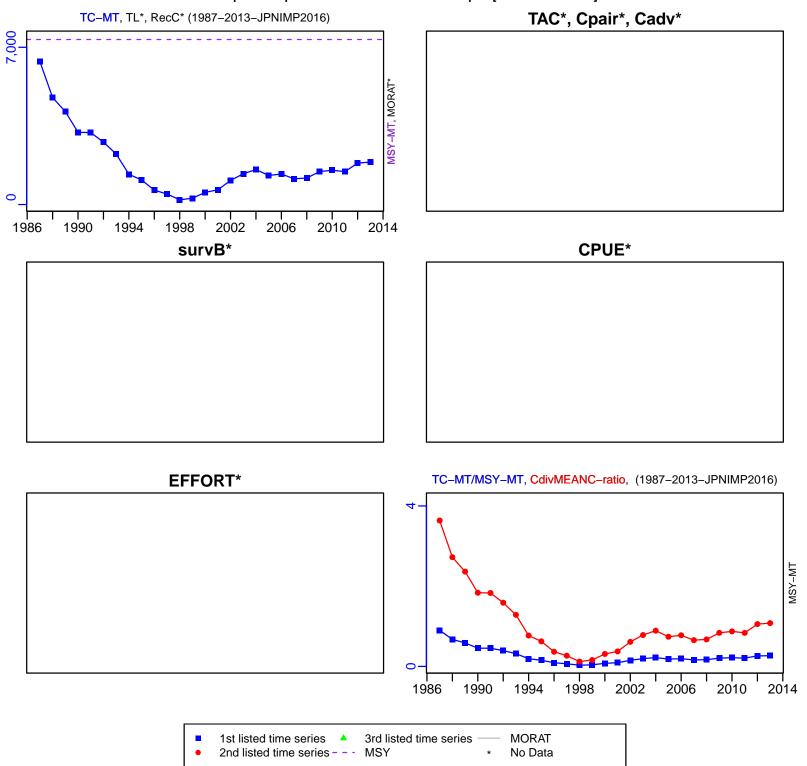
Metadata			
Scientific Name	Scomberomorus niphonius		
Current Assess ID FAFRFJ-SPANMACKSETO-1987-2013-JPNIMP2016			
Area Inland Sea of Japan			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2013	24,474		
SSBmsy	SSBmsy-MT	2013	16,707		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.283		
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	0.93	-	0 to 5	
ER	ER-calc-ratio	2013	0.361	-	-	
TC	TC-MT	2013	1780			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.201			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.151			
F/Fmsy	-	-	-			
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.276			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			







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

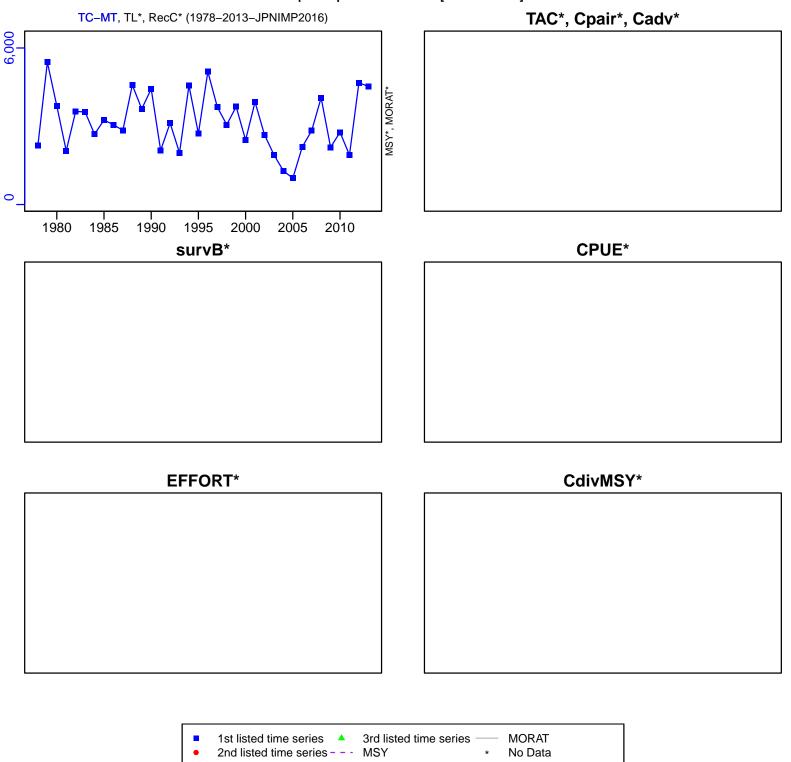
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	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*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data



Spear squid Tsushima warm current [SPSQUIDTSSTWC]

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

Reference Points					
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	2700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Spear squid Tsushima warm current [SPSQUIDTSSTWC]

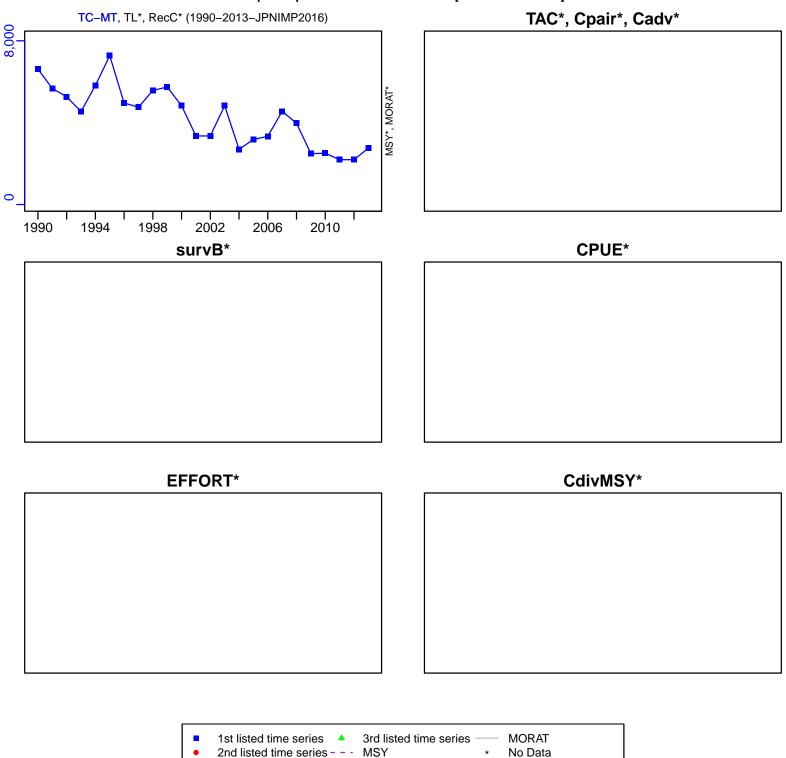
Kobe MGT*
Production*

◆ Start Year ◆ End Year * No Data

Spear squid Tsushima warm current [SPSQUIDTSSTWC]

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

Spear squid Tsushima warm current [SPSQUIDTSSTWC]



Metadata			
Scientific Name	Arctoscopus japonicus		
Current Assess ID FAFRFJ-SSANDNSJ-1952-2013-JPNIMP2016			
Area Sea of Japan North			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

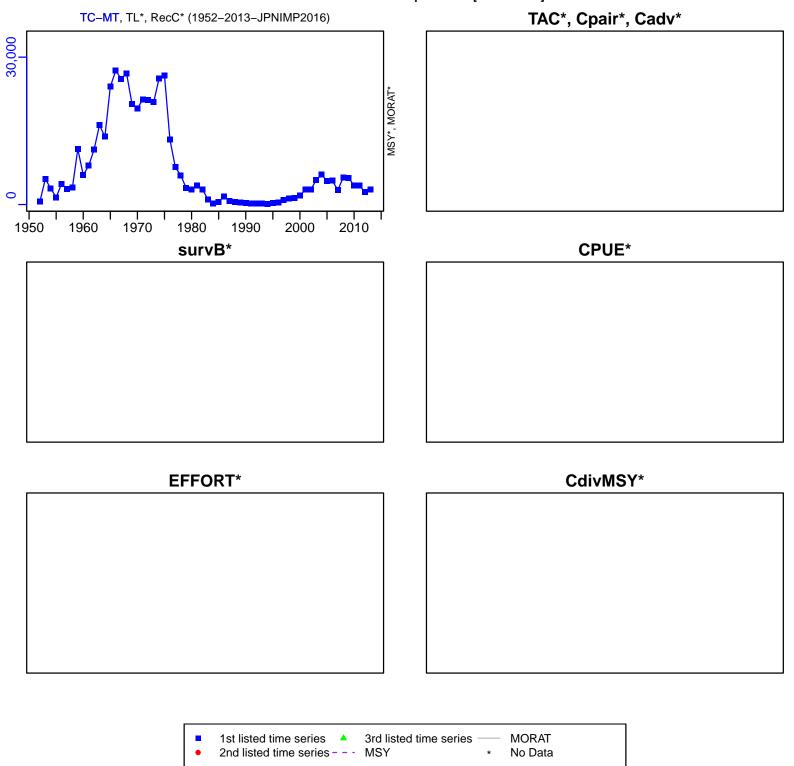
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.5		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

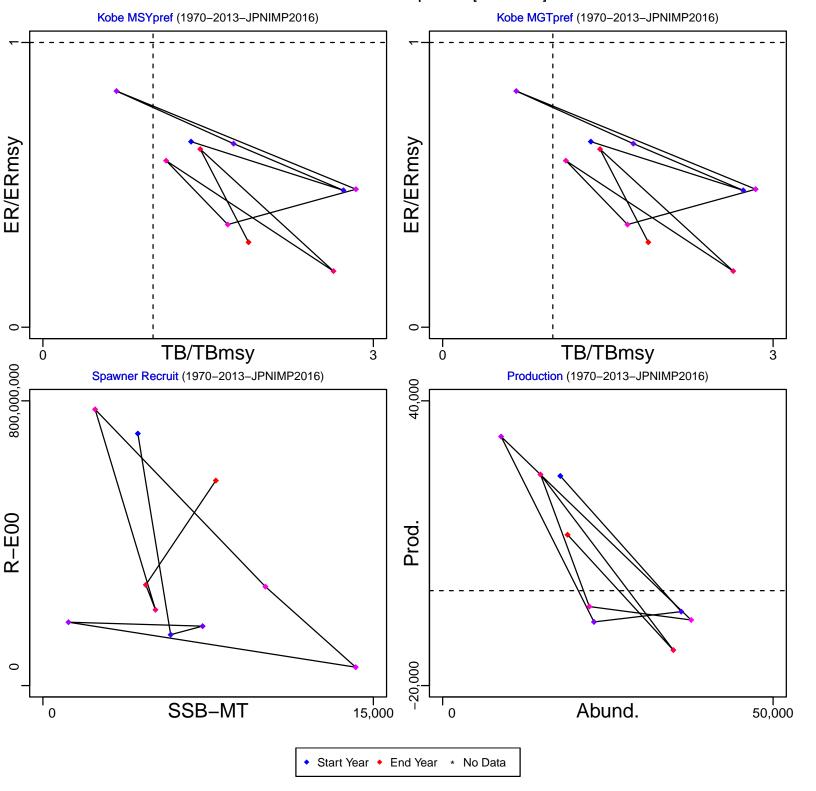
TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

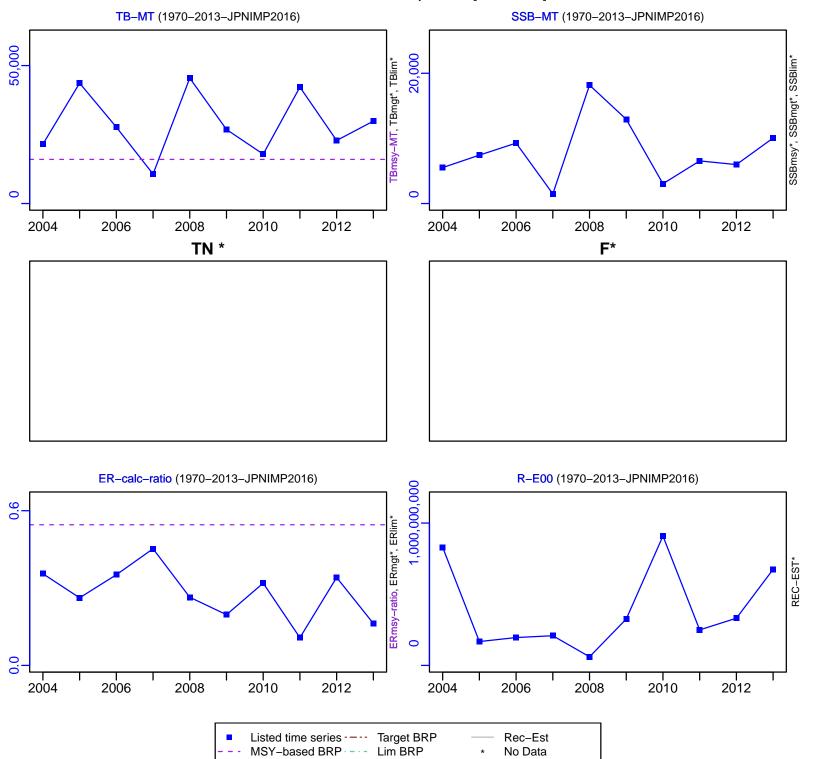


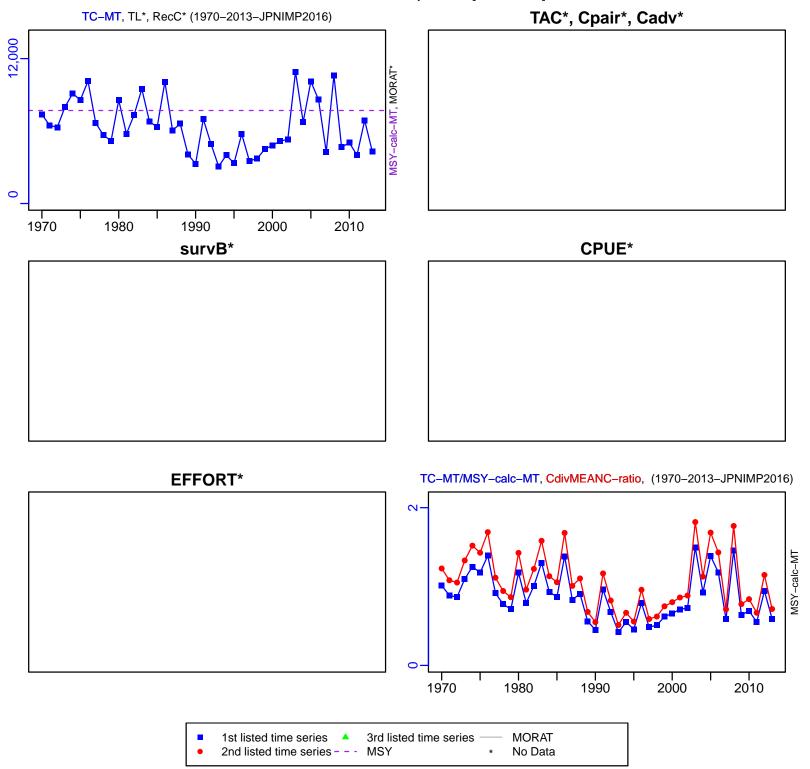
Metadata			
Scientific Name	Arctoscopus japonicus		
Current Assess ID FAFRFJ-SSANDWSJ-1970-2013-JPNIMP2016			
Area Sea of Japan West			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2013	13,230	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.506	
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	5.76×10^{8}	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.151	-	-
TC	TC-MT	2013	3730		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.867		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.298		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







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

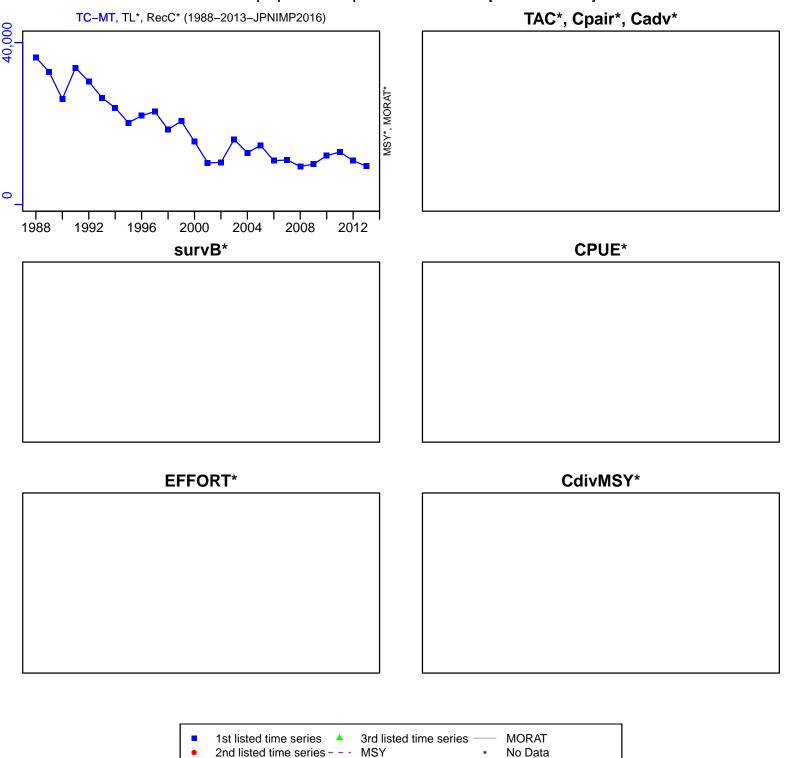
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

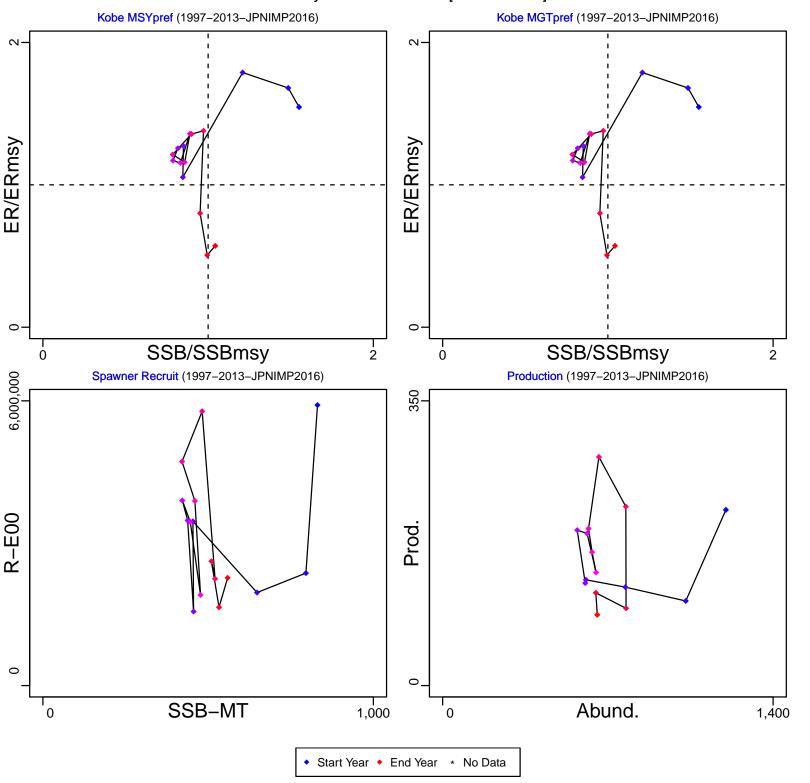
TB*	SSB*
TN *	F*
FD.	D 14 . W
ER*	Recruits*
■ Listed time series Ta	proof PPD —— Poc. Ect
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

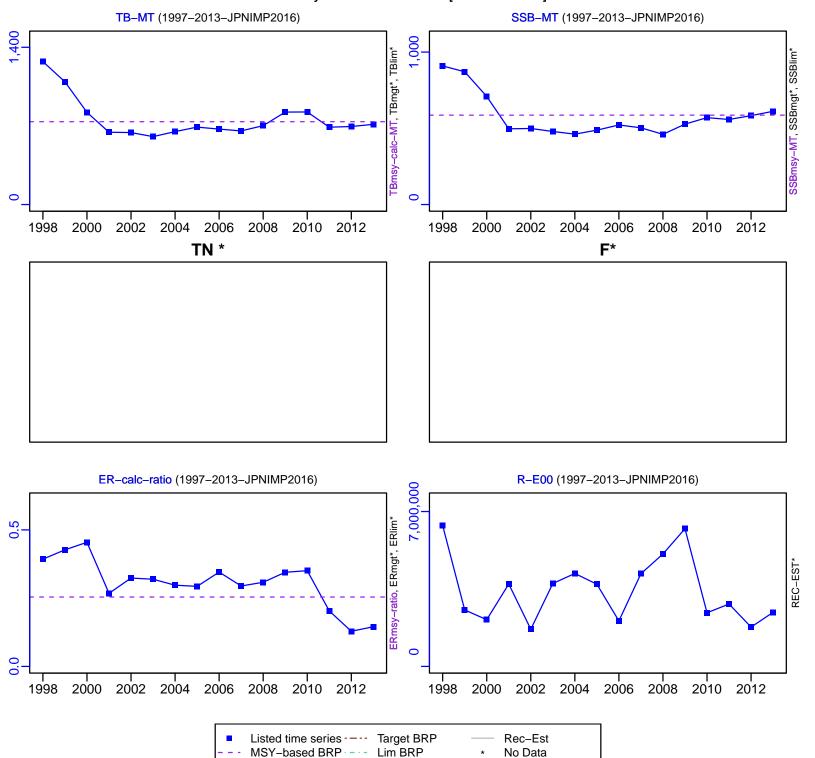


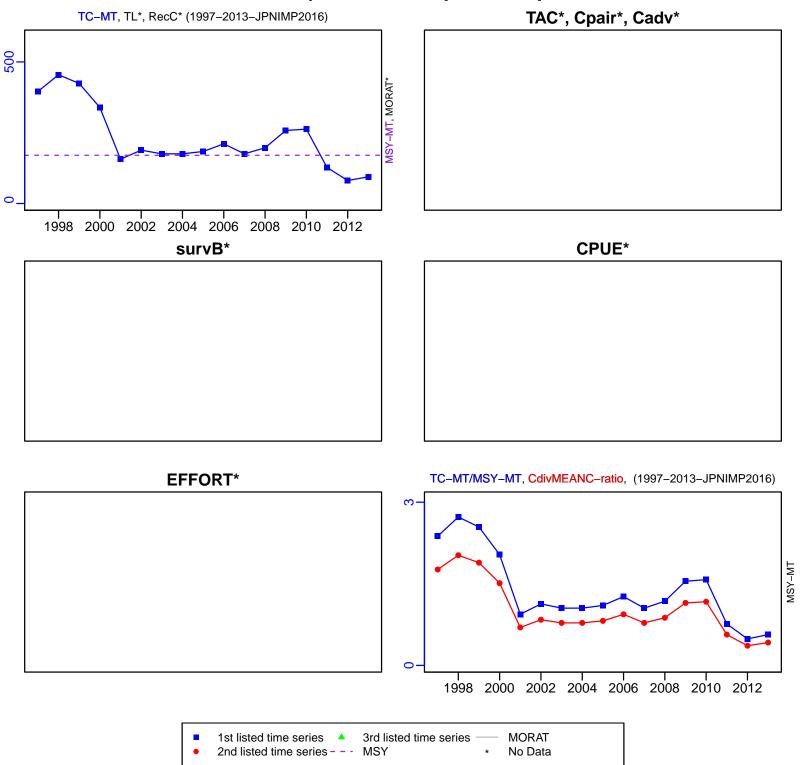
Metadata		
Scientific Name	Tanakius kitaharae	
Current Assess ID	FAFRFJ-WLFLOUNNPAC-1997-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	695
SSBmsy	SSBmsy-MT	2013	536
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.208
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	0.119	-	-
TC	TC-MT	2013	80		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.968		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.043		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.571		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata		
Scientific Name	Conger myriaster	
Current Assess ID	FAFRFJ-WSCONGIMKB-1980-2013-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

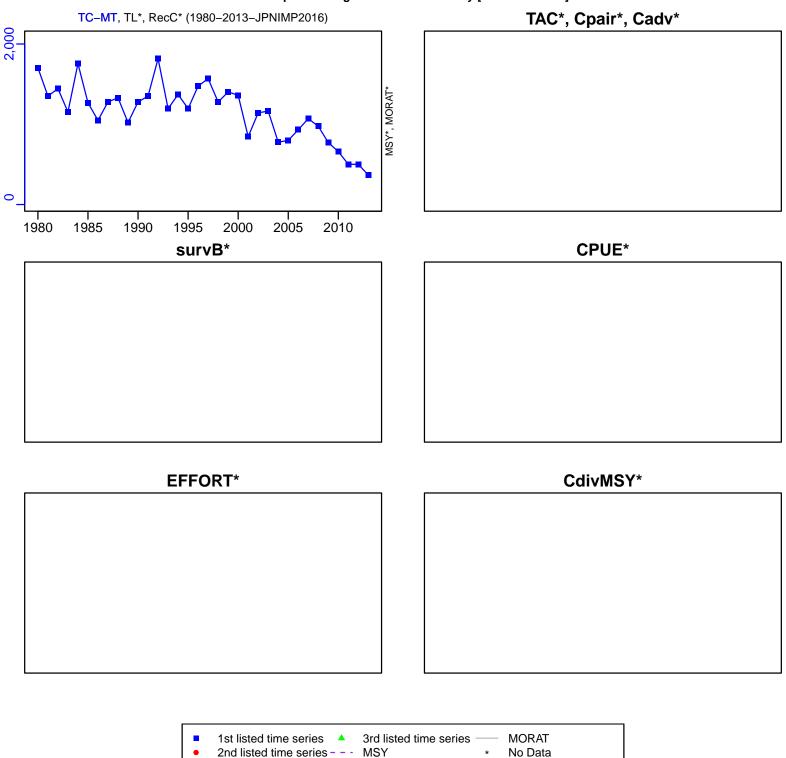
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	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*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data



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

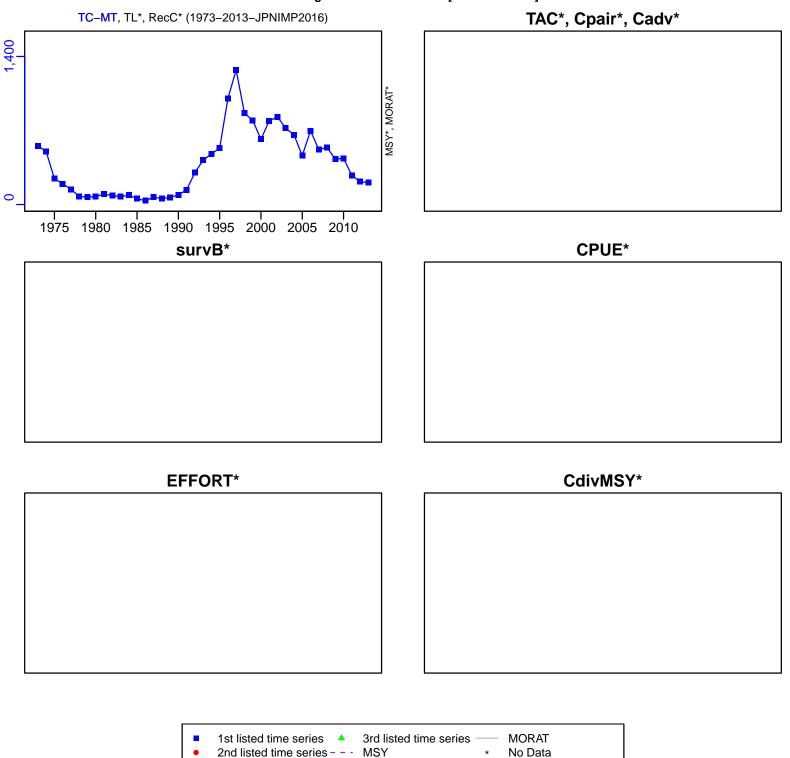
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	183		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
ER*	Recruits*



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

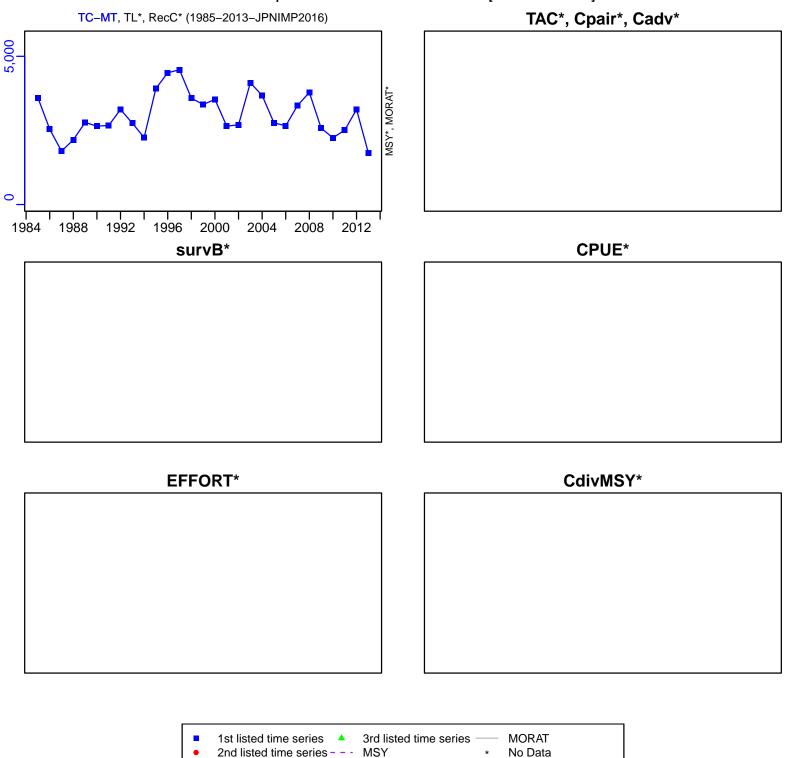
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		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*
IN	<u>r</u>
ER*	Recruits*
LIK	
■ Listed time series Ta	arget BRP — Rec-Est
■ Listed time series Ta MSY-based BRP Li	im BRP * No Data



	Metadata
Scientific Name	Pseudopleuronectes herzensteini
Current Assess ID	FAFRFJ-YSFLOUNSOJ-1980-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research 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			
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 MSY*	Kobe MGT*
O D !#	Dua desation#
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*
- Listed time series Terral DDD Dec Est	
Listed time series Target BRP — Rec-Est MSY-based BRP Lim BRP * No Data	

