# Japan Stocks v4.491 (Dec-21-2019)

## 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. RBRMECS [Red seabream East China Sea]	TB SSB	ER F	TB SSB	ER F
55. RBRMSETOE [Red seabream Inland Sea of Japan (East)]	TB SSB	ER F	TB SSB	ER F
56. RBRMSETOW [Red seabream Inland Sea of Japan (West)]	TB SSB	ER F	TB SSB	ER F
57. RHERRPAC [Round herring Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
58. RHERRTSST [Round herring Tsushima Strait]	TB SSB	ER F	TB SSB	ER F
59. RSFLOUNSOJ [Round nose flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
60. RSSOLENPAC [Roughscale sole North Pacific]	TB SSB	ER F	TB SSB	ER F
61. SAURNWPAC [Pacific saury Northwest Pacific]	TB SSB	ER F	TB SSB	ER F
62. SHAKOIMKB [Shako Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
63. SNOWCRABESJ [Snow crab Sea of Japan East]	TB SSB	ER F	TB SSB	ER F
64. SNOWCRABHOKK [Snow crab Hokkaido]	TB SSB	ER F	TB SSB	ER F
65. SNOWCRABNPAC [Snow crab North Pacific]	TB SSB	ER F	TB SSB	ER F
66. SNOWCRABOKS [Snow crab Okhotsk Sea]	TB SSB	ER F	TB SSB	ER F
67. SNOWCRABWSJ [Snow crab Sea of Japan West]	TB SSB	ER F	TB SSB	ER F
68. SPANMACKECS [Japanese Spanish mackerel East China Sea]	TB SSB	ER F	TB SSB	ER F
69. SPANMACKSETO [Japanese Spanish mackerel Inland Sea of	TB SSB	ER F	TB SSB	ER F
Japan]				
70. SPSQUIDPAC [Spear squid Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
71. SPSQUIDTSSTWC [Spear squid Tsushima warm current]	TB SSB	ER F	TB SSB	ER F
72. SSANDNSJ [Sailfin sandfish Sea of Japan North]	TB SSB	ER F	TB SSB	ER F
73. SSANDWSJ [Sailfin sandfish Sea of Japan West]	TB SSB	ER F	TB SSB	ER F
74. STSQUIDSOJECS [Swordtip squid Sea of Japan and East China	TB SSB	ER F	TB SSB	ER F
Sea]				
75. WLFLOUNNPAC [Willowy flounder North Pacific]	TB SSB	ER F	TB SSB	ER F
76. WSCONGIMKB [Whitespotted conger Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
77. YGSFISHNPAC [Yellow goosefish North Pacific]	TB SSB	ER F	TB SSB	ER F
78. YSFLOUNNHOKK [Yellow striped flounder North coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
79. YSFLOUNSOJ [Yellow striped flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F

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		

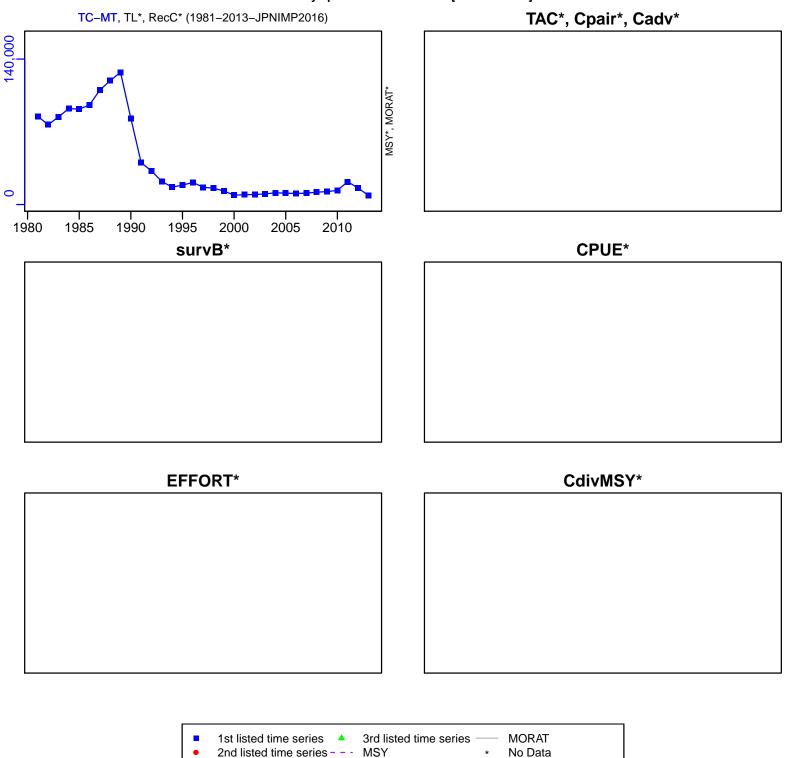
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*

◆ Start Year ◆ End Year \* No Data

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

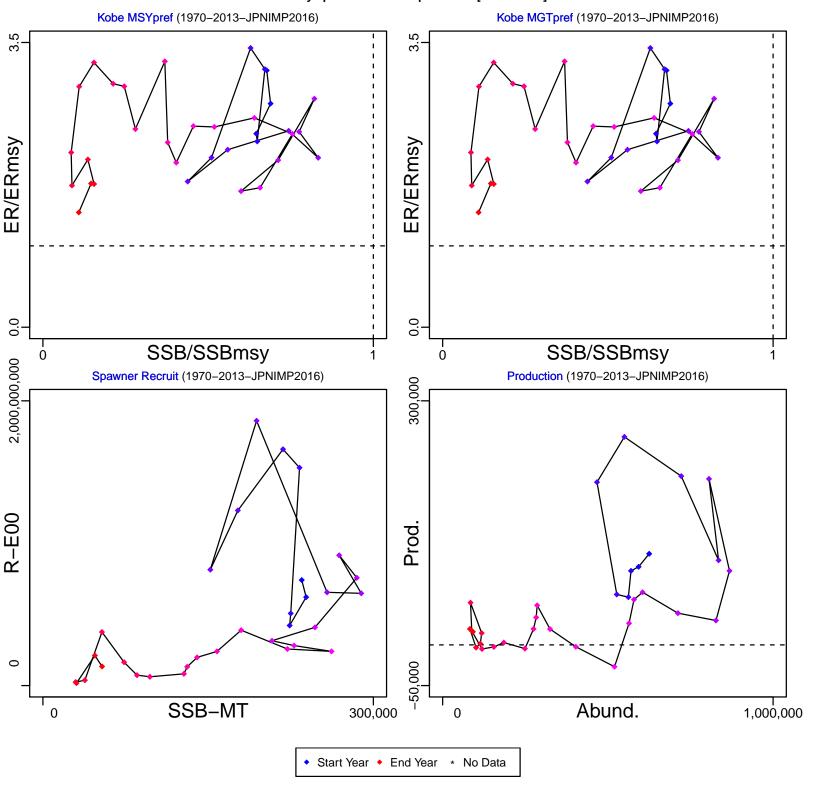


## Walleye pollock Sea of Japan North [APOLLNSJ]

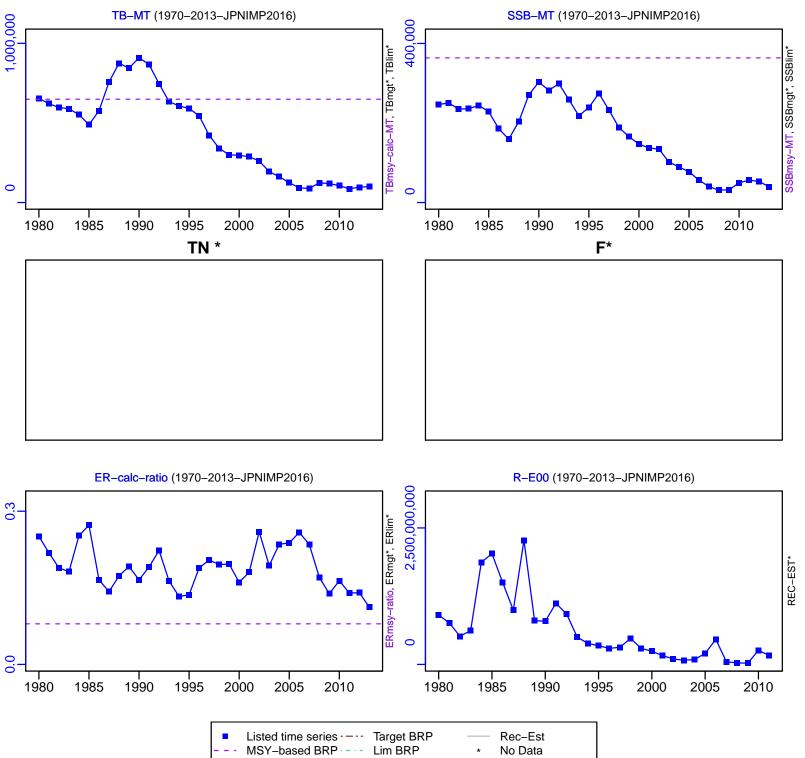
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID	FAFRFJ-APOLLNSJ-1970-2013-JPNIMP2016		
Area Sea of Japan North			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

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	-	-	-	

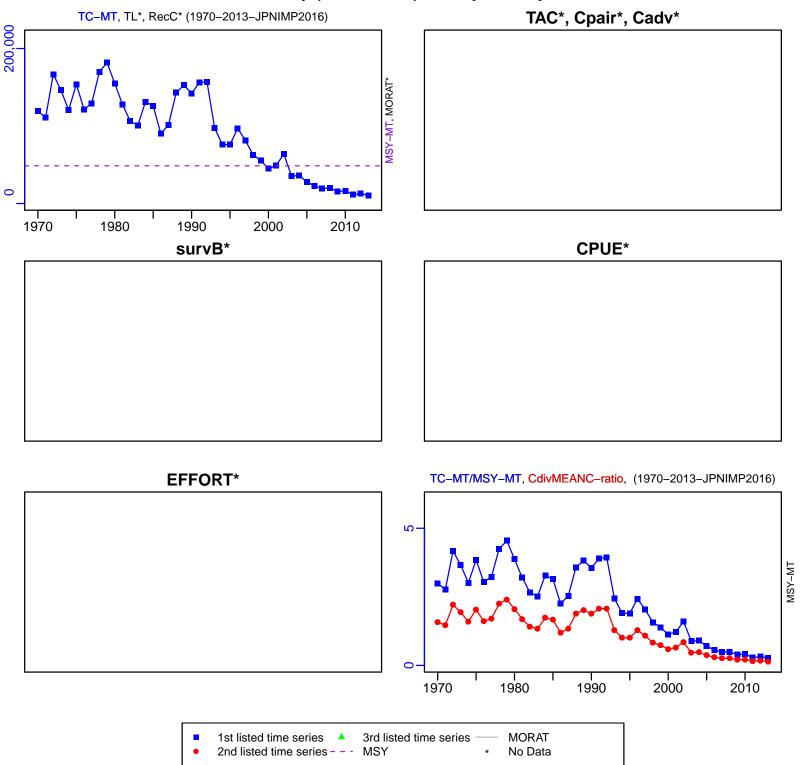
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	95,800	-	2
SSB	SSB-MT	2013	37,700	Both	4
TN	-	-	-	-	-
R	R-E00	2013	$1.34 \times 10^{8}$	-	2
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.103	-	-
TC	TC-MT	2013	9870		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.155		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	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		

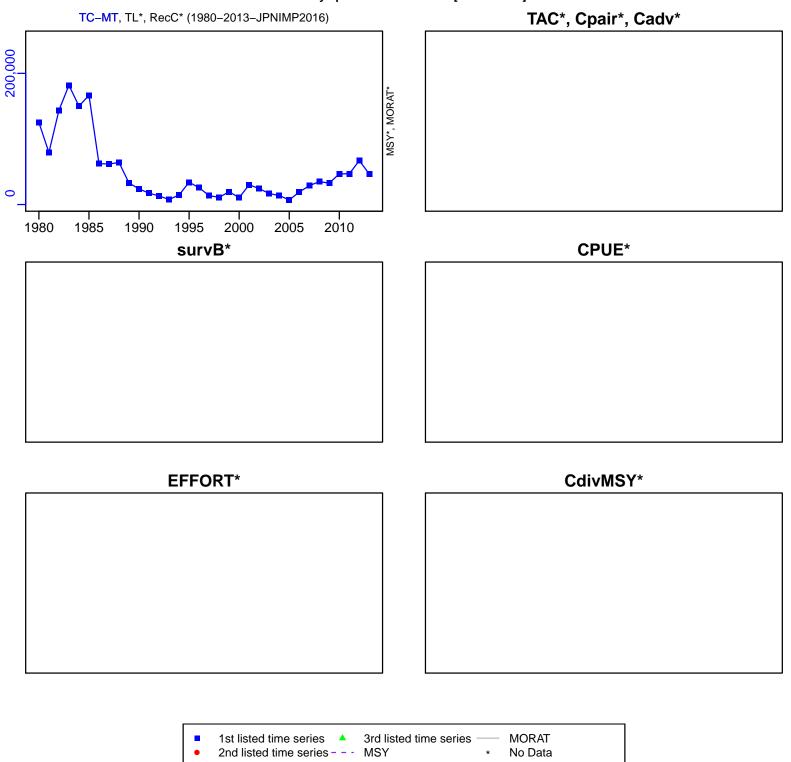
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

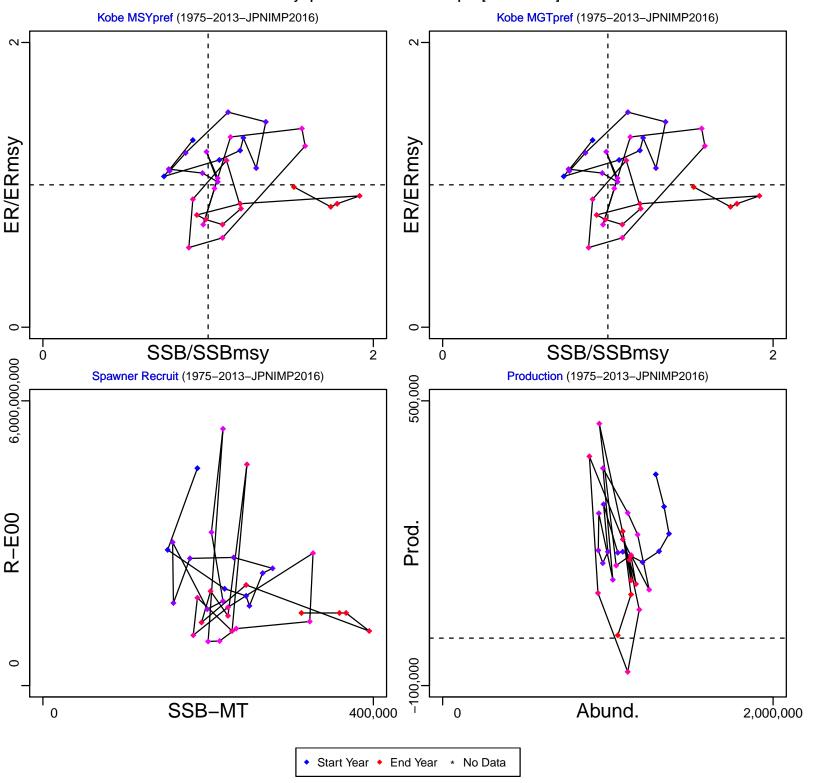
TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

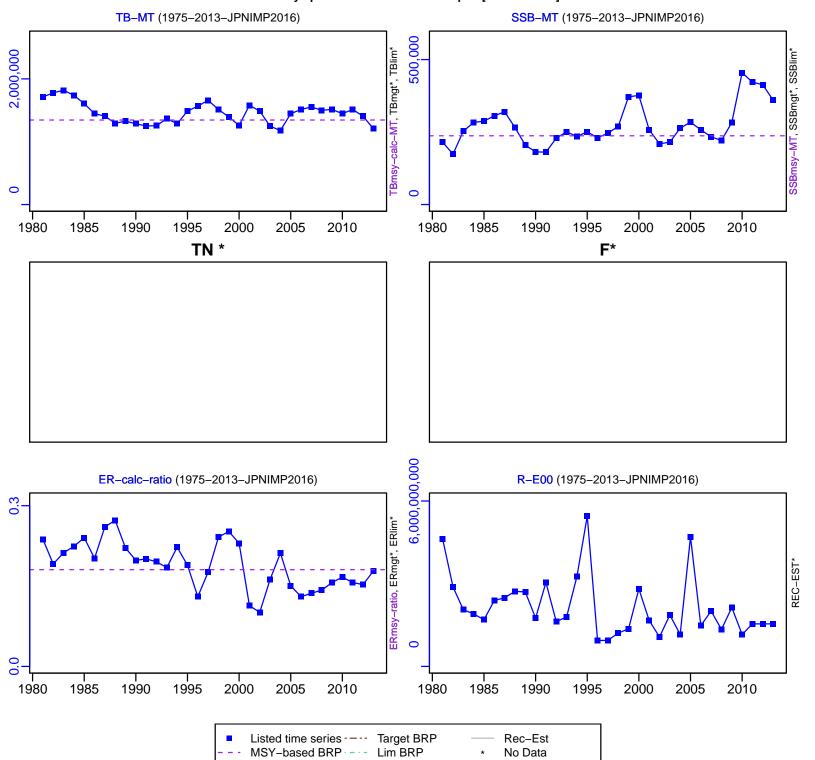


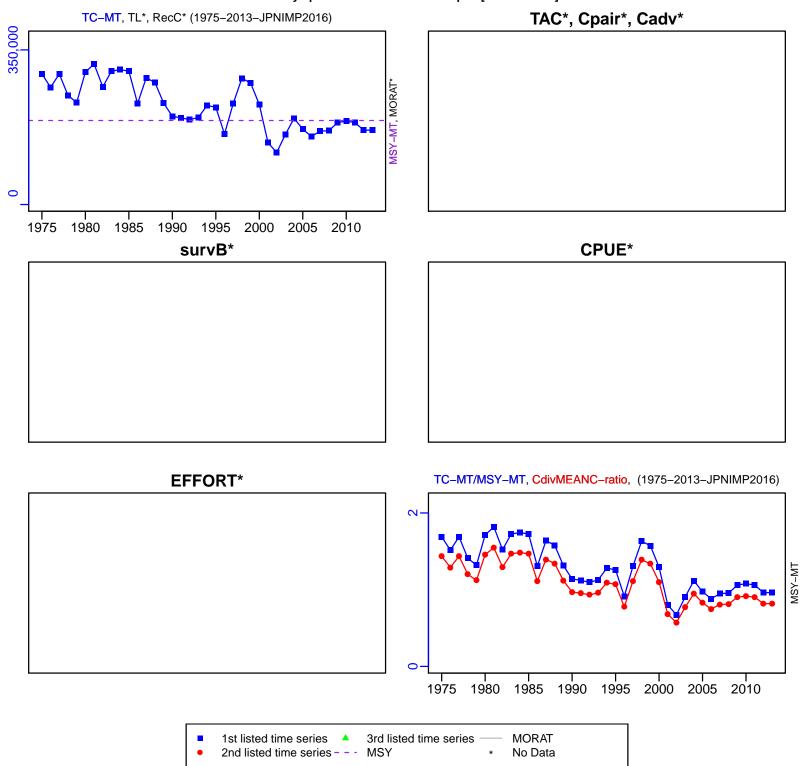
Metadata		
Scientific Name	Theragra chalcogramma	
Current Assess ID	FAFRFJ-APOLLPJPN-1975-2013-JPNIMP2016	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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	
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	910,000	-	0
SSB	SSB-MT	2013	313,000	Both	4
TN	-	-	-	-	-
R	R-E00	2013	$1.53 \times 10^{9}$	-	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	

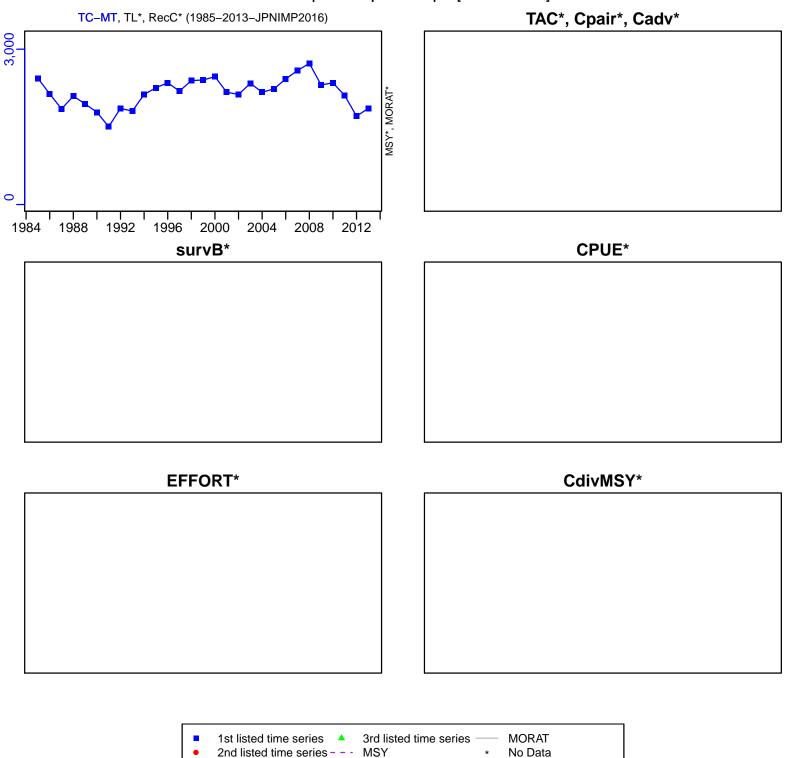
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

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



Metadata		
Scientific Name	Pleurogrammus azonus	
Current Assess ID	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	

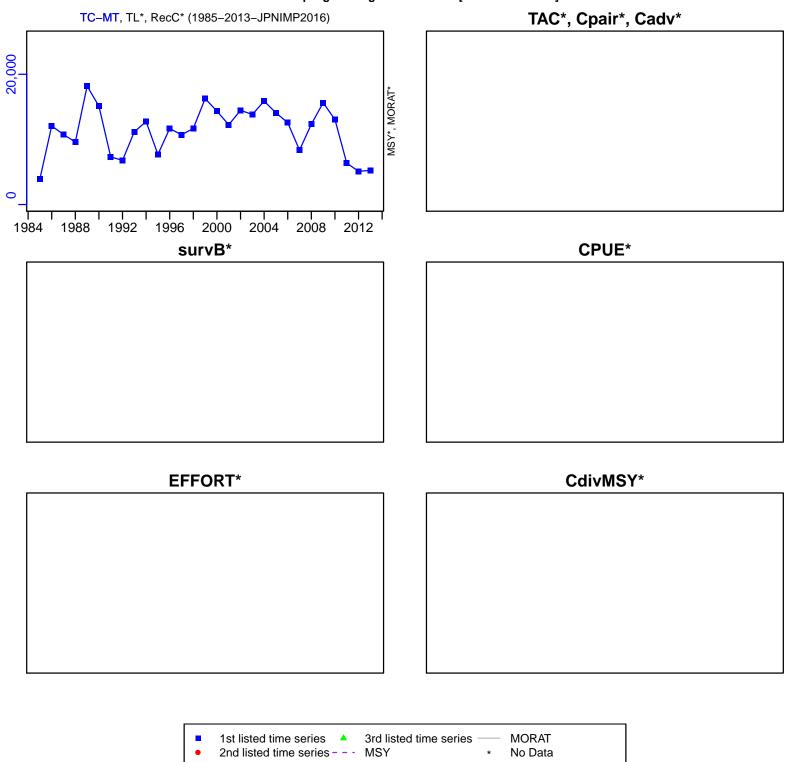
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

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

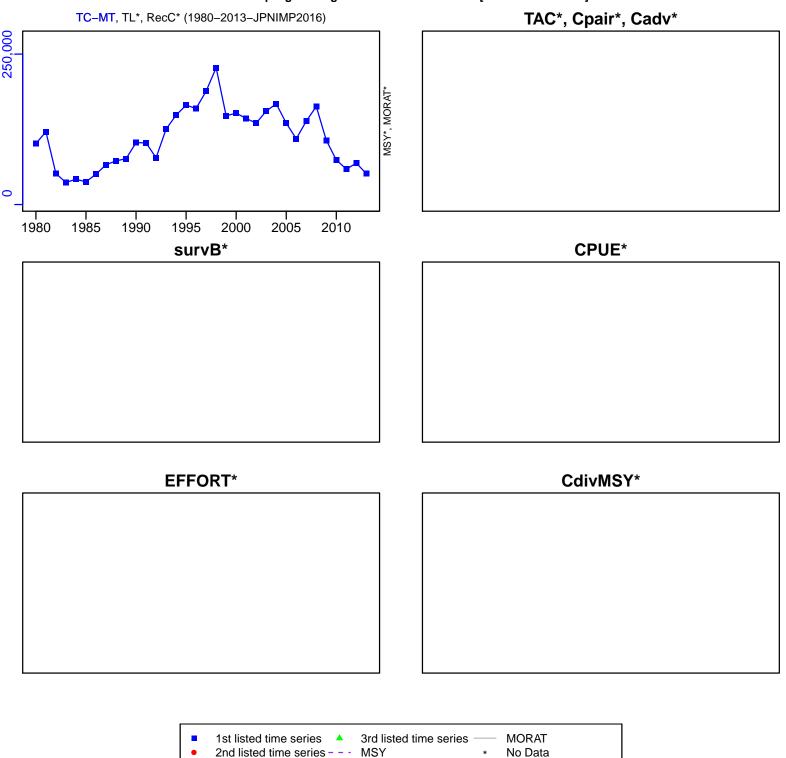
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
Opamier Reorait	1 Todastion

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	<b>F</b> *
ED*	Dooruito*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
<ul><li>Listed time series Ta</li><li> MSY-based BRP Li</li></ul>	m 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		

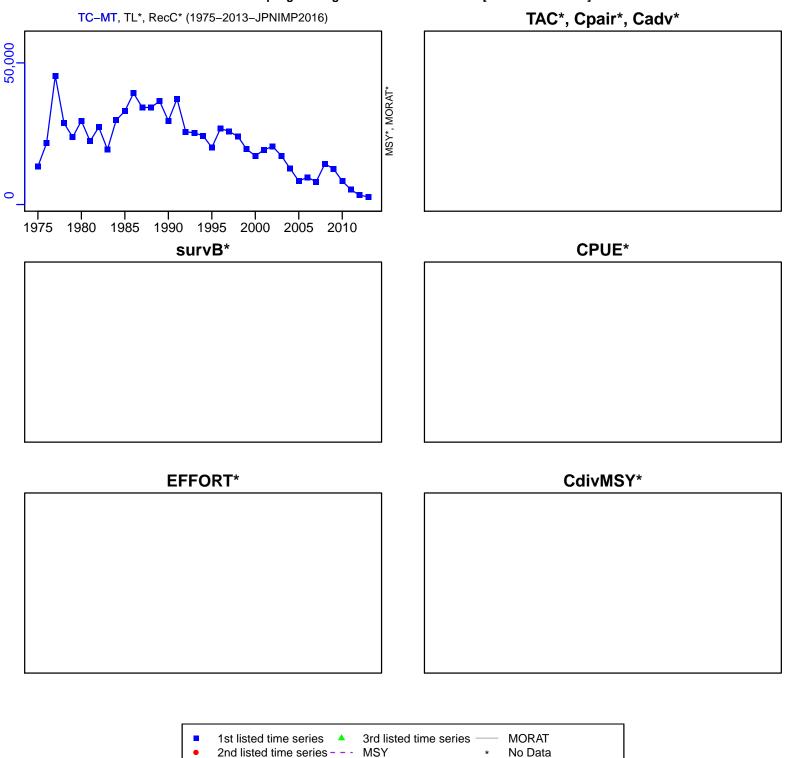
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ Start Year ◆ End Year ∗ No Data

TB*	SSB*
TN *	F*
ED*	Pooruito*
ER*	Recruits*
■ Linted time povice T	protect PPD ——————————————————————————————————
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-1973-2013-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	6780		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

### Amberstripe scad East China Sea [ASCADECS]

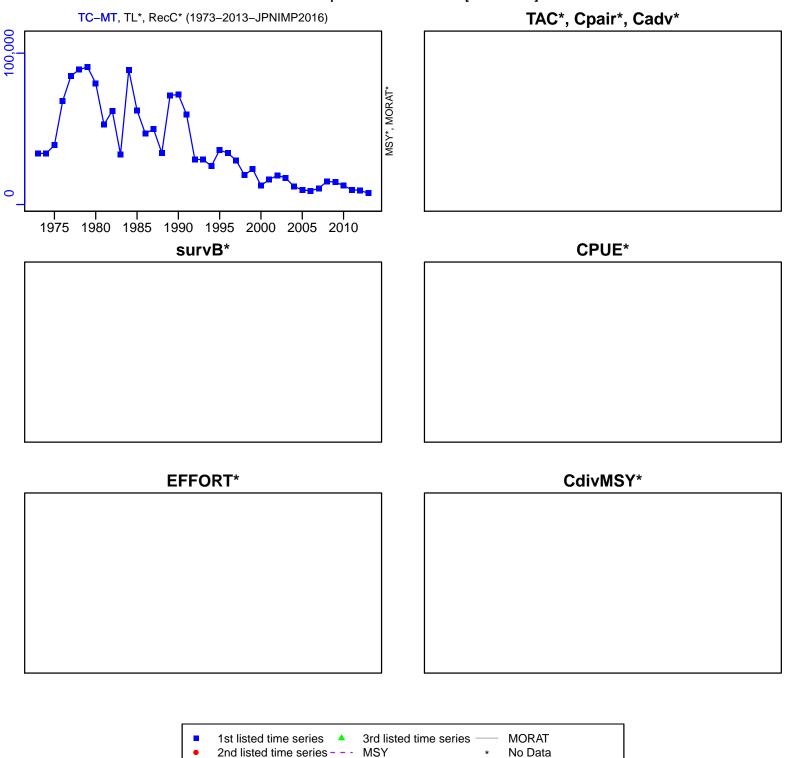
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Amberstripe scad East China Sea [ASCADECS]

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

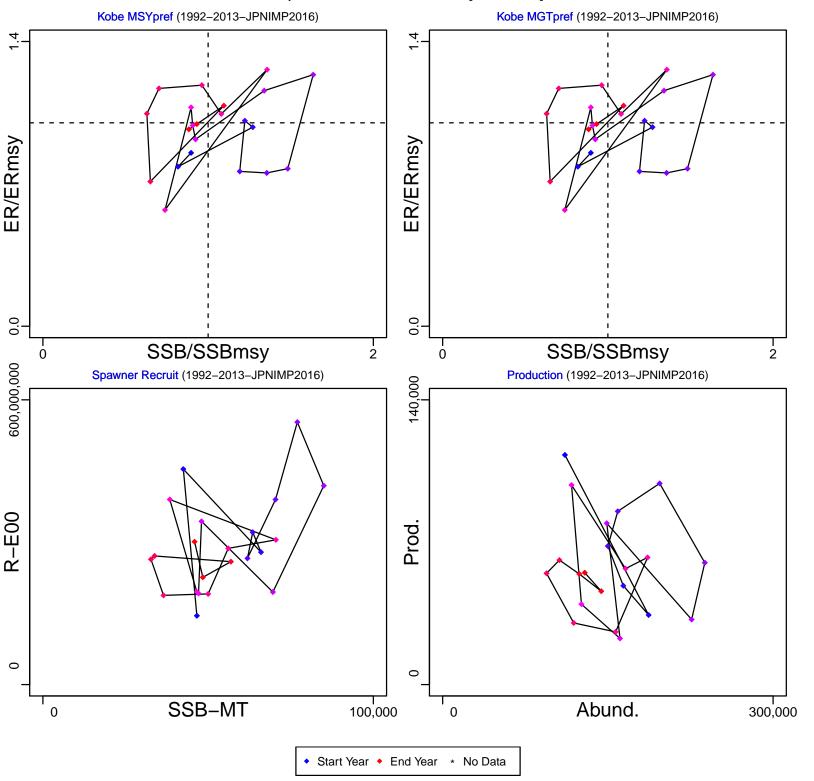
### Amberstripe scad East China Sea [ASCADECS]

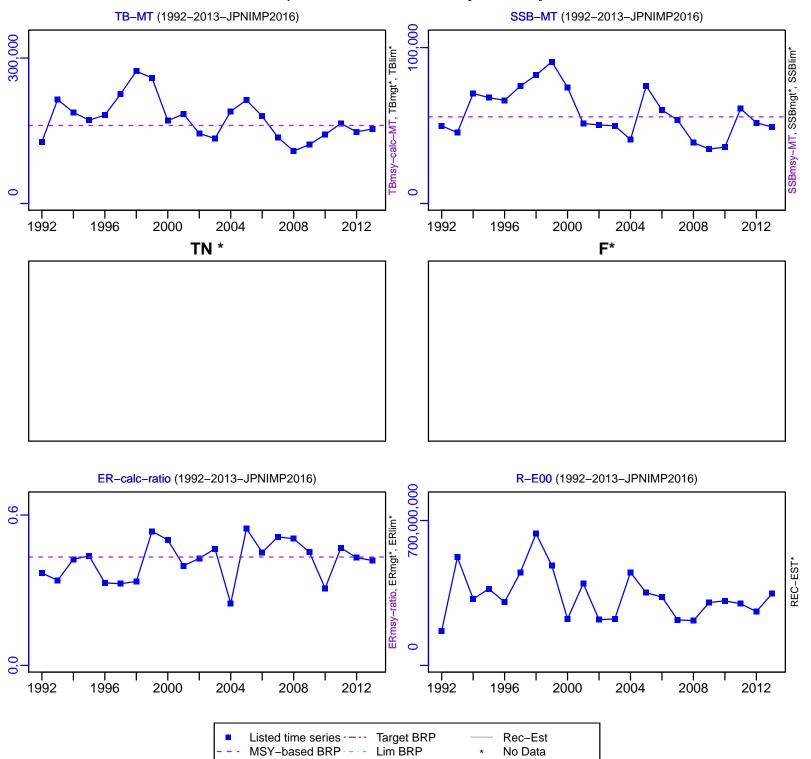


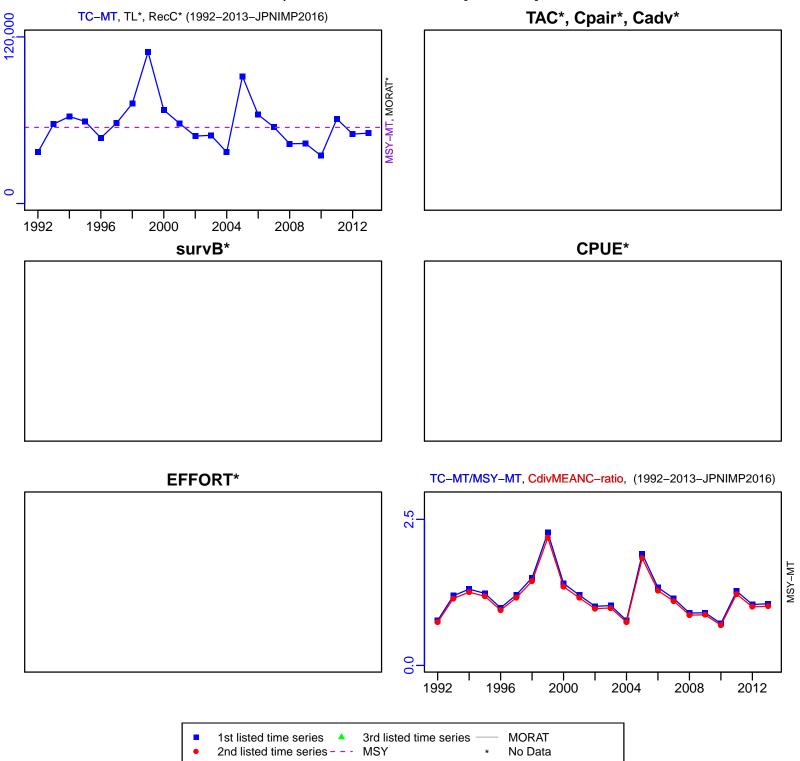
Metadata			
Scientific Name	Scomber australasicus		
Current Assess ID	FAFRFJ-BMACKECS-1992-2013-JPNIMP2016		
Area East China Sea			
Management Authority Fisheries Agency of Japan			
Assessor Fisheries Agency and Fisheries Research Agency of Japa			
Asmts in RAM	2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	140,403	
SSBmsy	SSBmsy-MT	2013	51,957	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.39	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	54,757	
М	M-1/yr	2013	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	134,000	-	0
SSB	SSB-MT	2013	45,900	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$3.01 \times 10^{8}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.378	-	-
TC	TC-MT	2013	50,600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.954		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.883		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.968		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



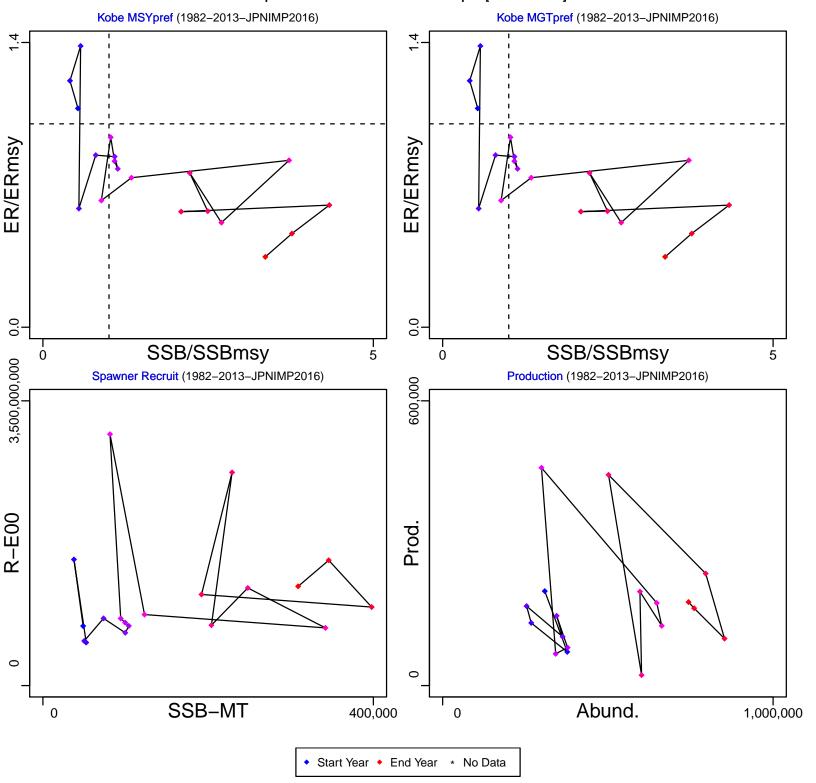


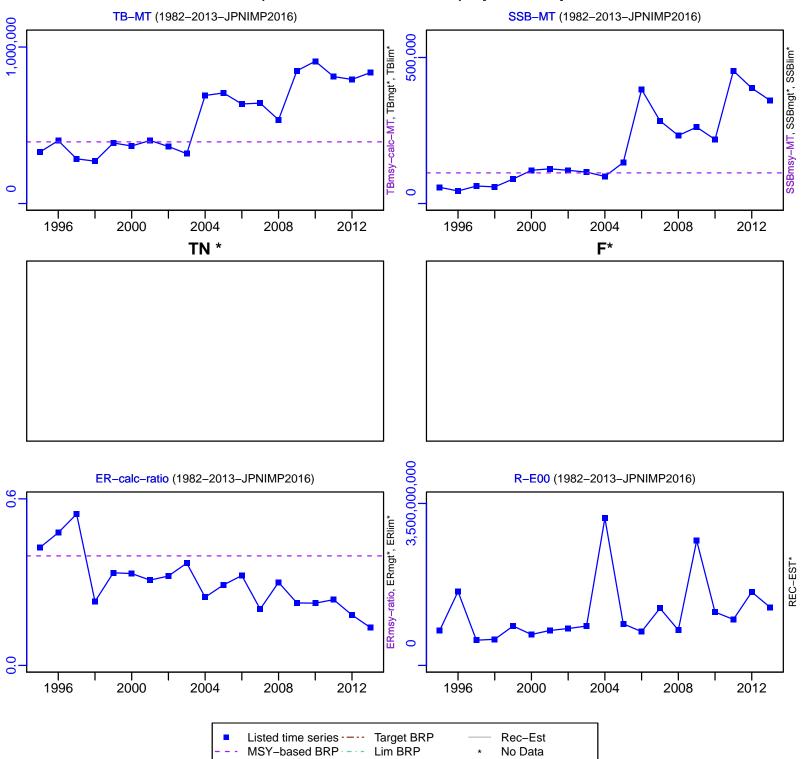


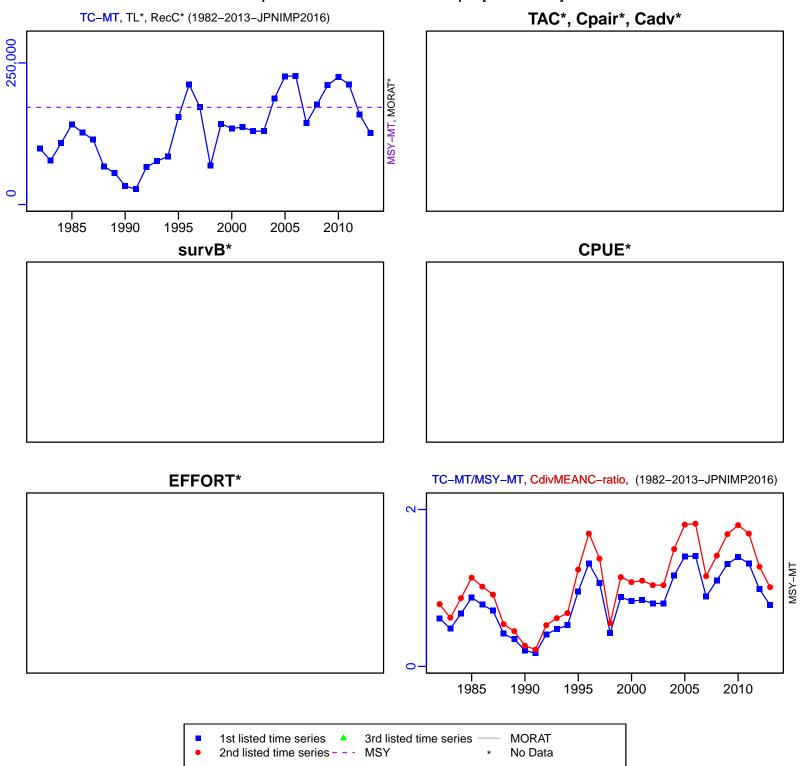
Metadata			
Scientific Name Scomber australasicus			
Current Assess ID FAFRFJ-BMACKPJPN-1982-2013-JPNIMP2016			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor Fisheries Agency and Fisheries Research Agency of Japar			
Asmts in RAM 2013			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	369,685	
SSBmsy	SSBmsy-MT	2013	91,814	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.394	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	145,656	
M	M-1/yr	2013	0.4	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	785,000	-	0
SSB	SSB-MT	2013	309,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$1.22 \times 10^{9}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.136	-	-
TC	TC-MT	2013	107,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	2.123		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	3.365		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.346		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





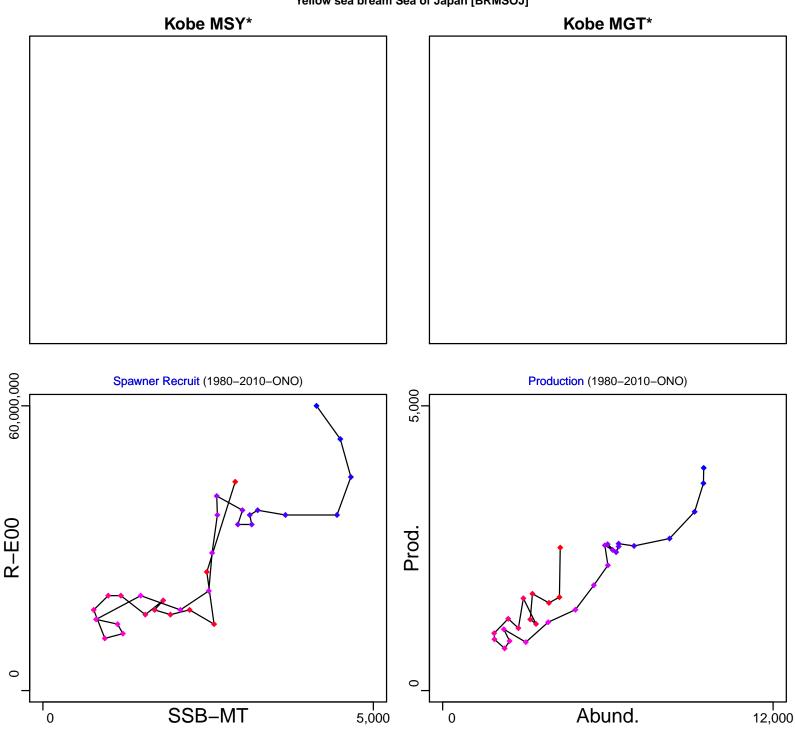


# Yellow sea bream Sea of Japan [BRMSOJ]

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			

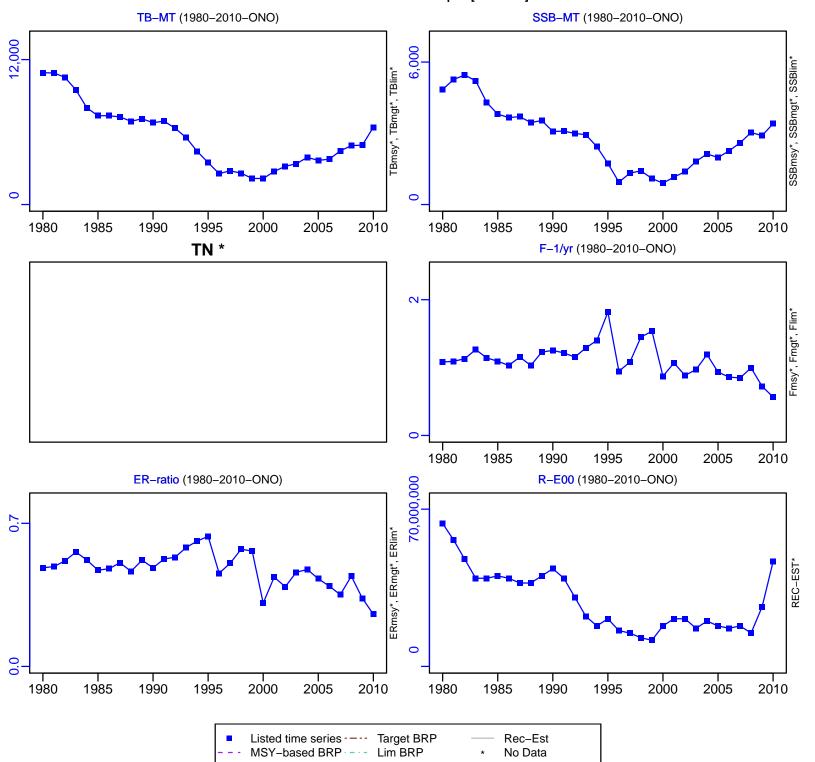
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.22		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	$4.4 \times 10^{7}$	-	-
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	-	-	-		

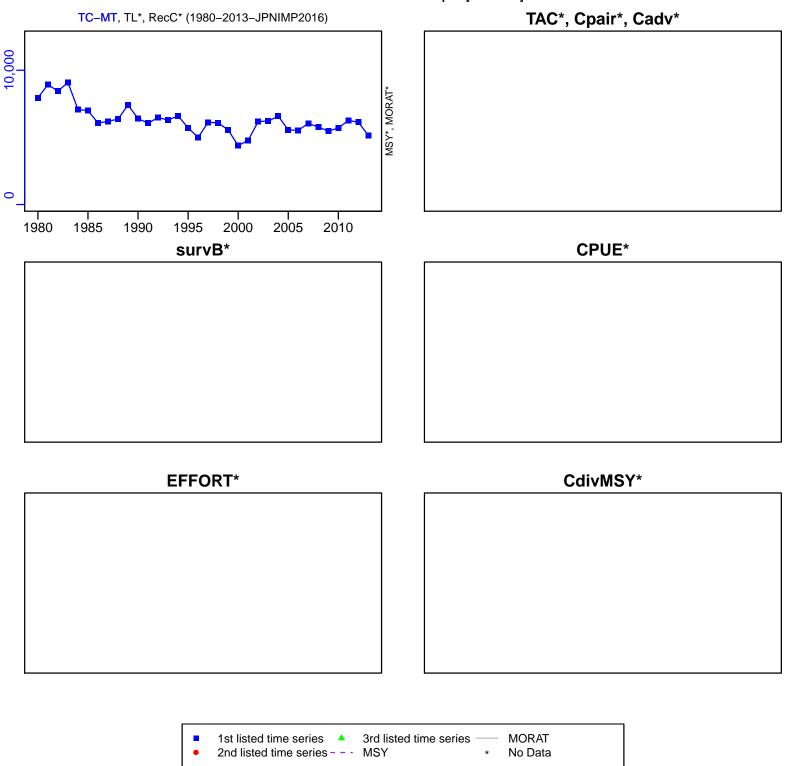


Start Year → End Year → No Data

#### 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			

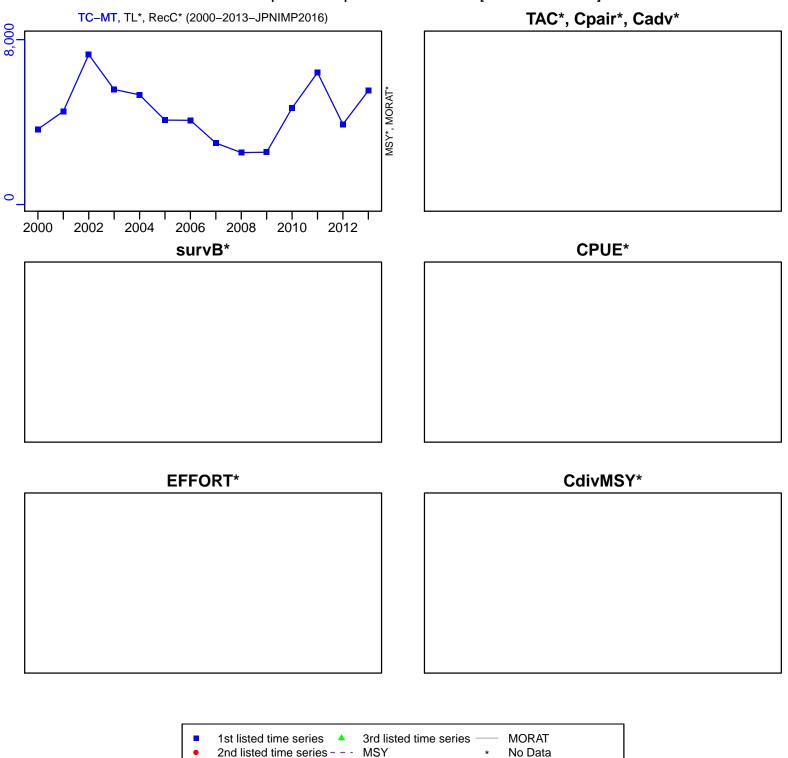
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

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



Metadata		
Scientific Name Chionoecetes japonicus		
Current Assess ID	urrent 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	

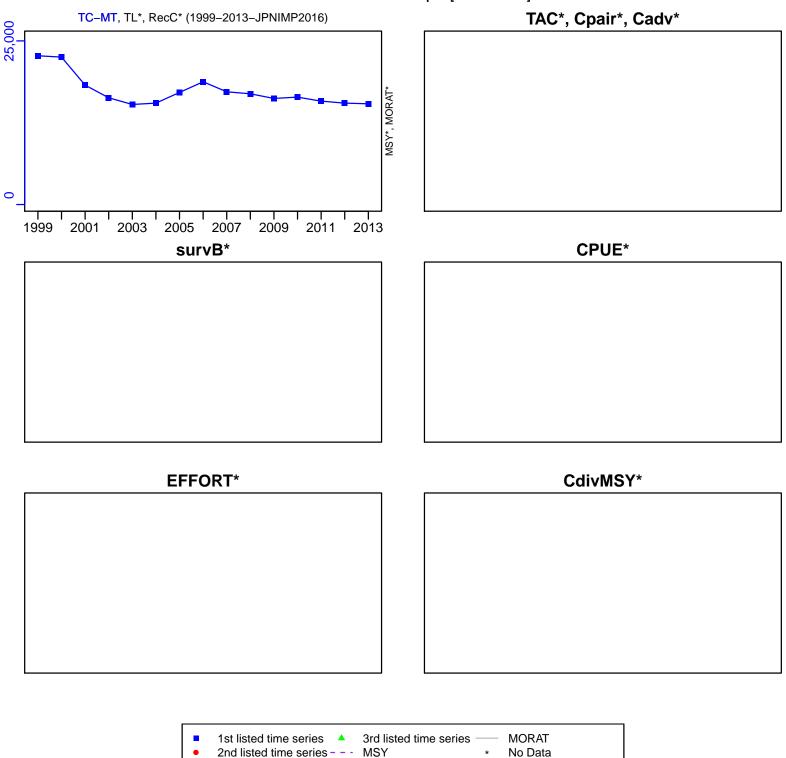
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	15,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

◆ Start Year ◆ End Year \* No Data

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



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

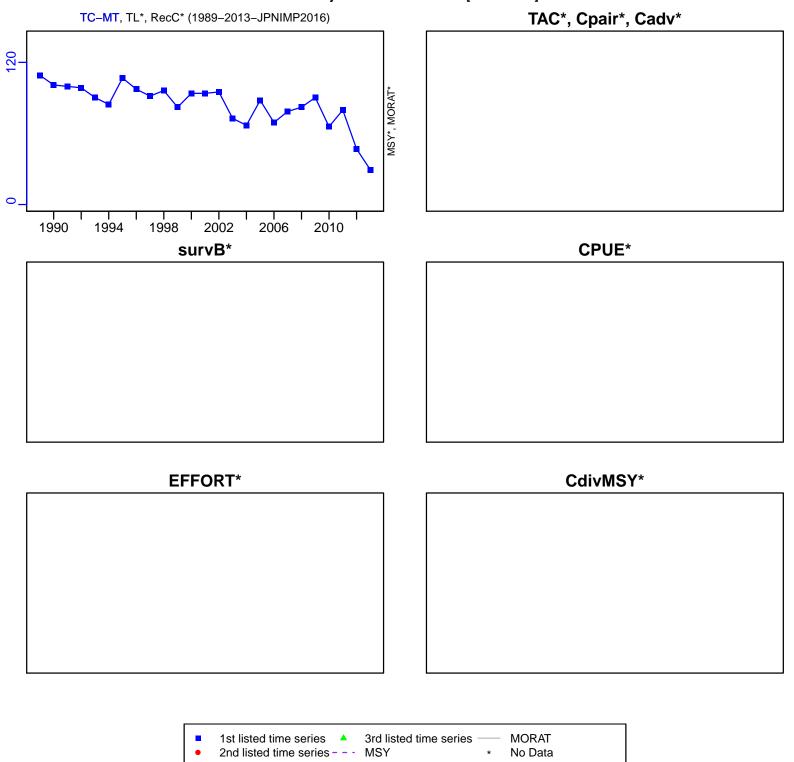
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

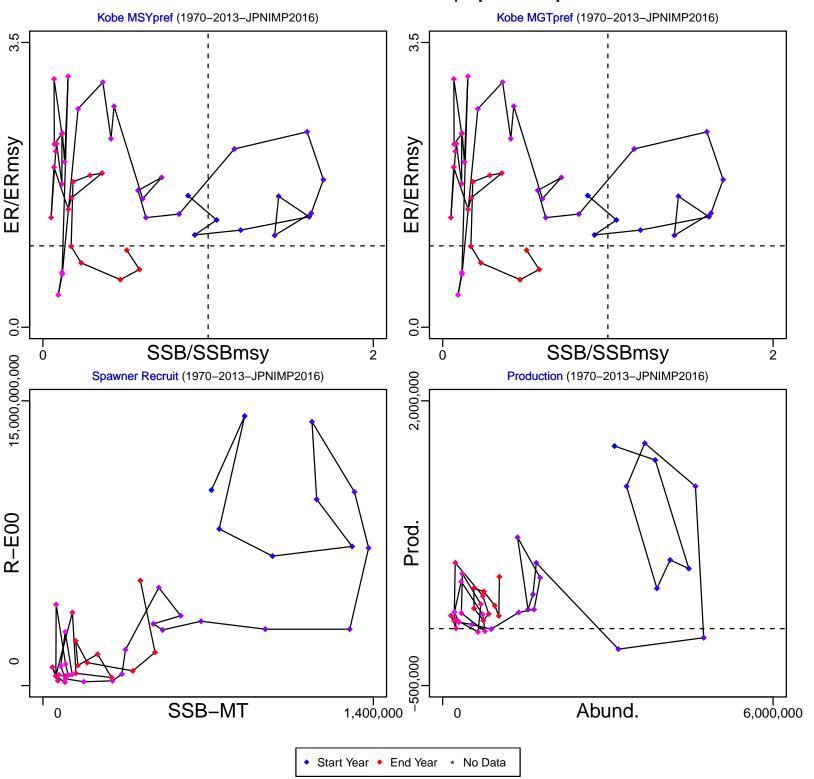
TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

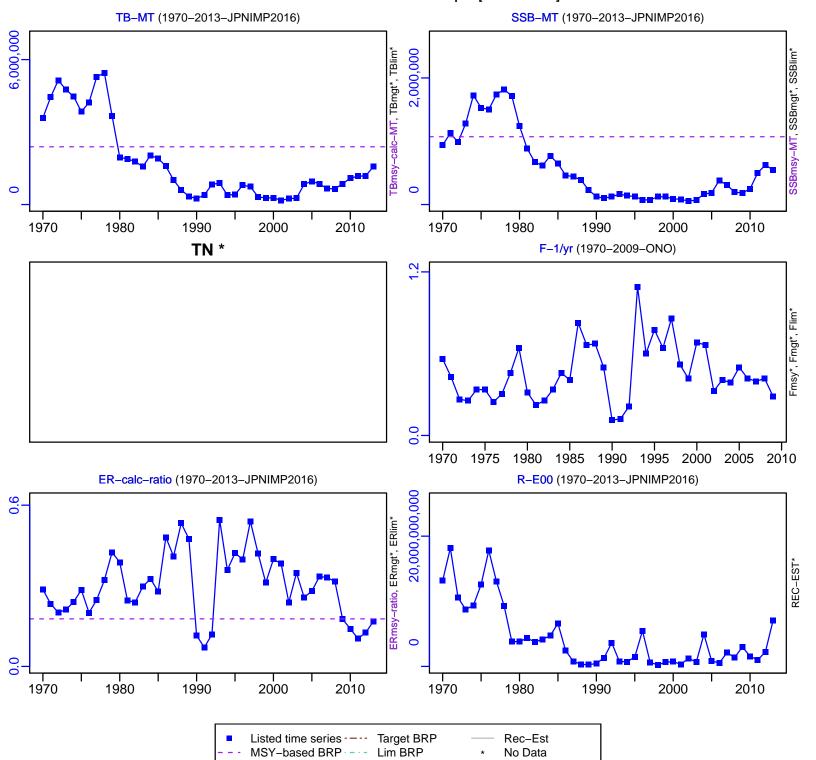


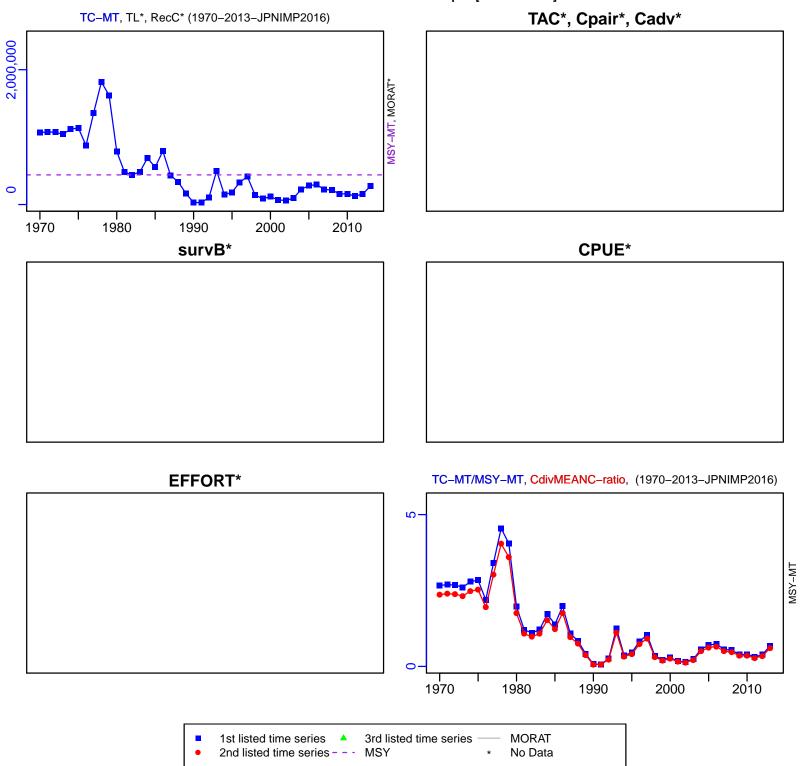
	Metadata
Scientific Name	Scomber japonicus
Current Assess ID	FAFRFJ-CMACKPJPN-1970-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2009, 2013

	Reference Points		
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	2,077,724
SSBmsy	SSBmsy-MT	2013	812,856
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.171
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	355,291
М	M-1/yr	2013	0.4
TBlim	TBlim-MT	2009	450
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time S	eries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	1,360,000	-	0
SSB	SSB-MT	2013	413,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$5.53 \times 10^{9}$	-	0
F	F-1/yr	2009	0.28	Both	0 to 5
ER	ER-calc-ratio	2013	0.162	-	-
TC	TC-MT	2013	220,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.655		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.508		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.946		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



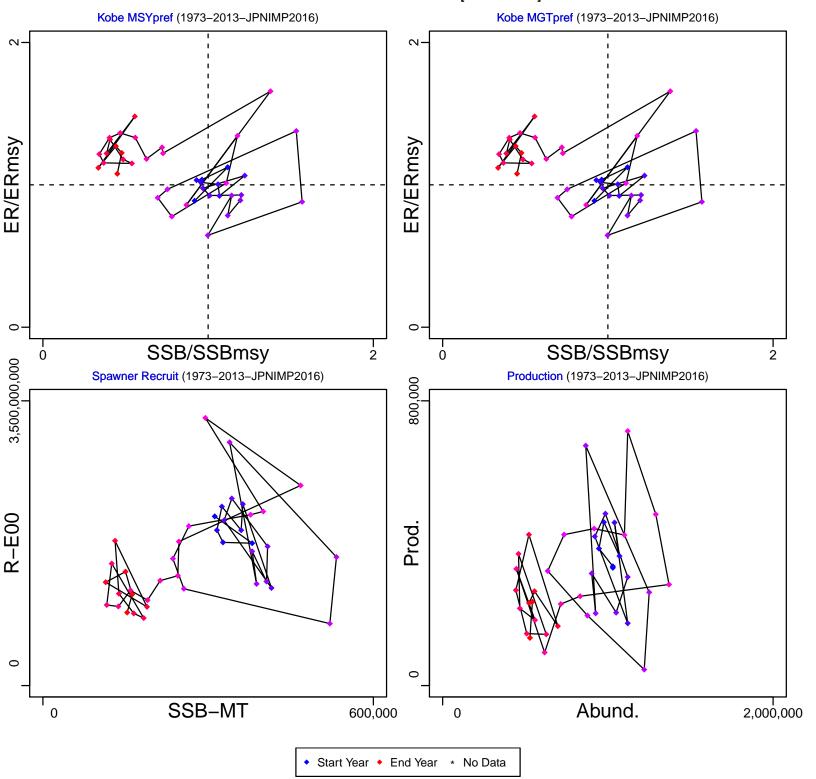


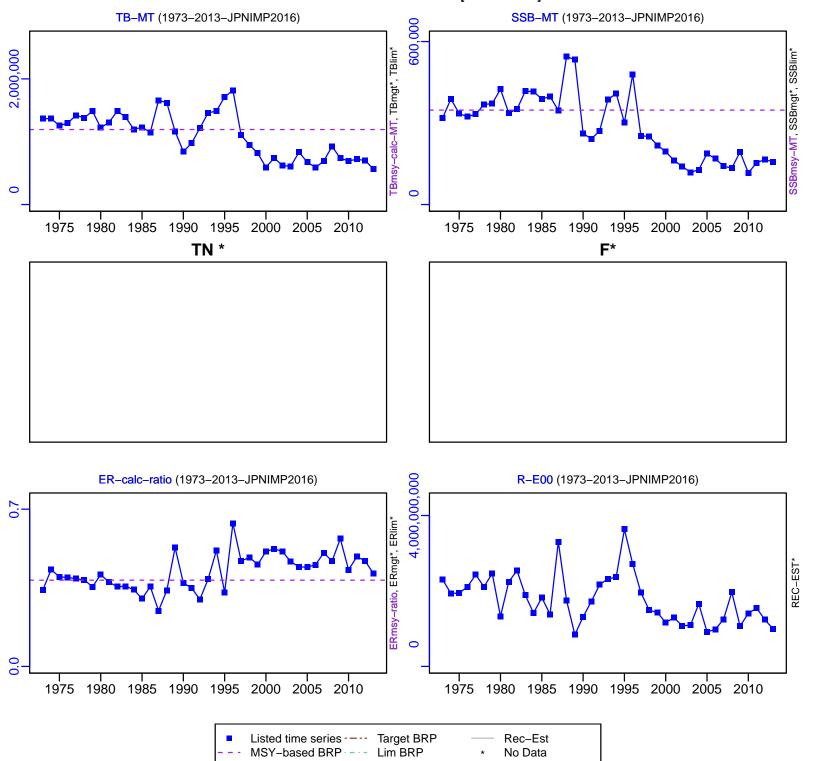


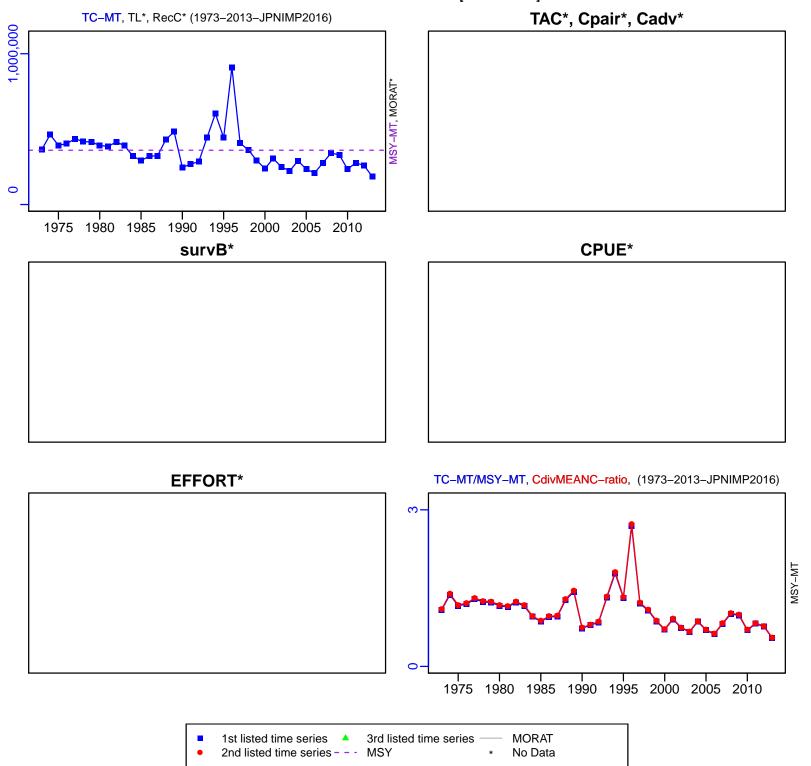
	Metadata
Scientific Name	Scomber japonicus
Current Assess ID	FAFRFJ-CMACKTSST-1973-2013-JPNIMP2016
Area	Tsushima Strait
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	899,288
SSBmsy	SSBmsy-MT	2013	339,714
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.362
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	325,542
М	M-1/yr	2013	0.4
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Se	eries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	428,000	-	0
SSB	SSB-MT	2013	153,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$8.98 \times 10^{8}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.39	-	-
TC	TC-MT	2013	167,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.476		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.45		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.078		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







# Deep sea smelt Pacific Ocean [DSSMELTPAC]

Metadata	
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAFRFJ-DSSMELTPAC-1980-2013-JPNIMP2016
Area	Pacific Ocean
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	599		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

## Deep sea smelt Pacific Ocean [DSSMELTPAC]

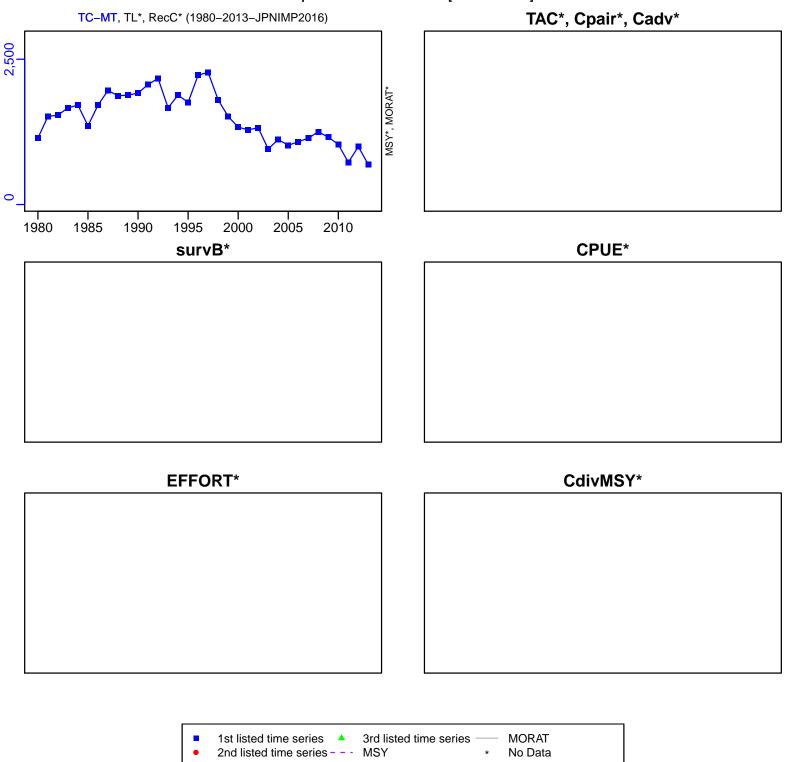
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

# Deep sea smelt Pacific Ocean [DSSMELTPAC]

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

## Deep sea smelt Pacific Ocean [DSSMELTPAC]



Metadata	
Scientific Name	Glossanodon semifasciatus
Current Assess ID	FAFRFJ-DSSMELTSOJ-1975-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

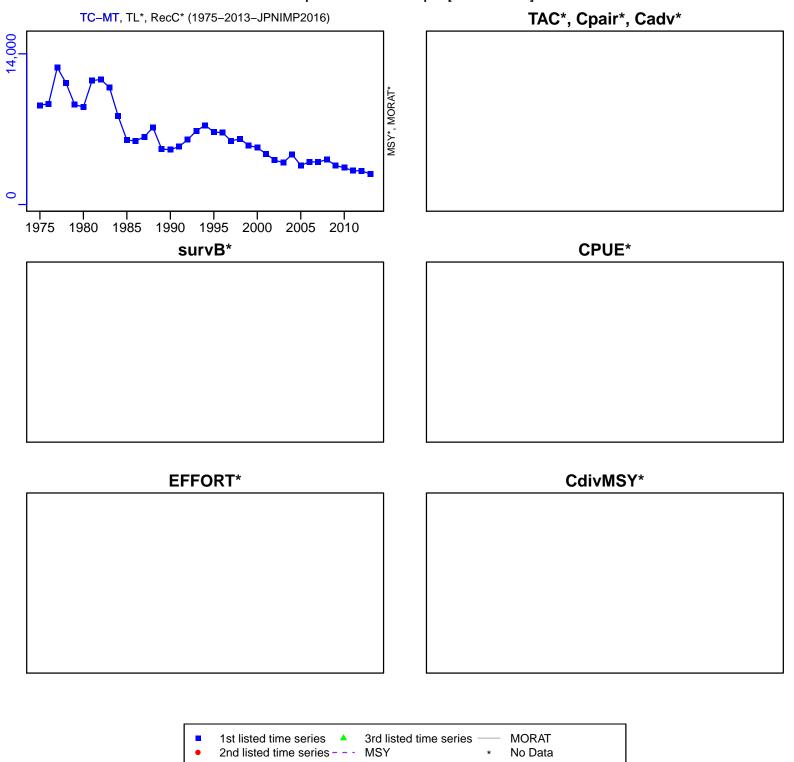
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2560		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spawner Recruit* Production*	

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est im BRP * No Data
I WO I -based DIVE	III DIA



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

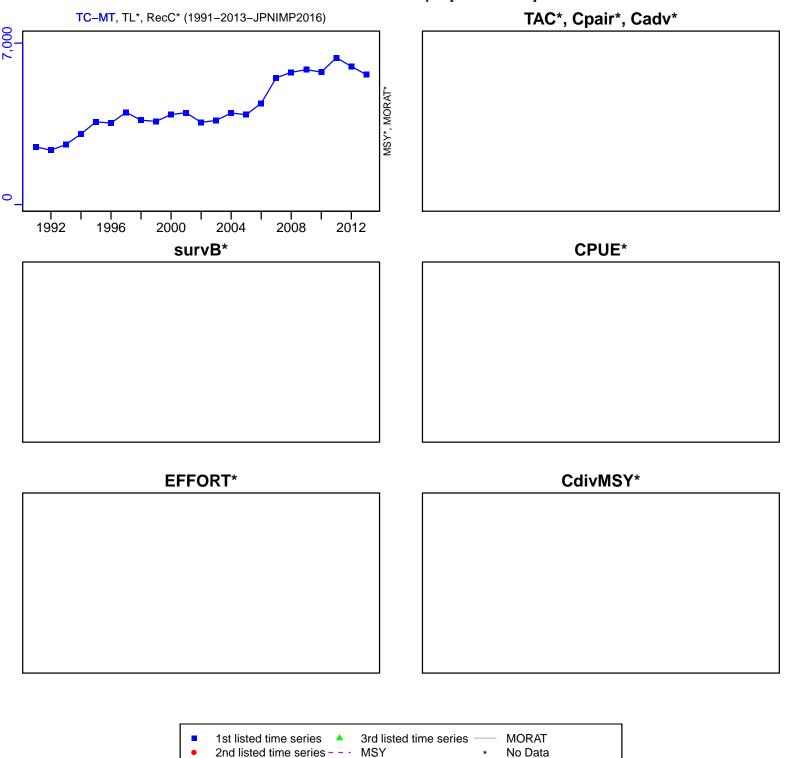
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
III	<u> </u>
ER*	Recruits*
■ Listed time series Ta	erget BRP — Rec-Est
Listed time series Ta	m 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

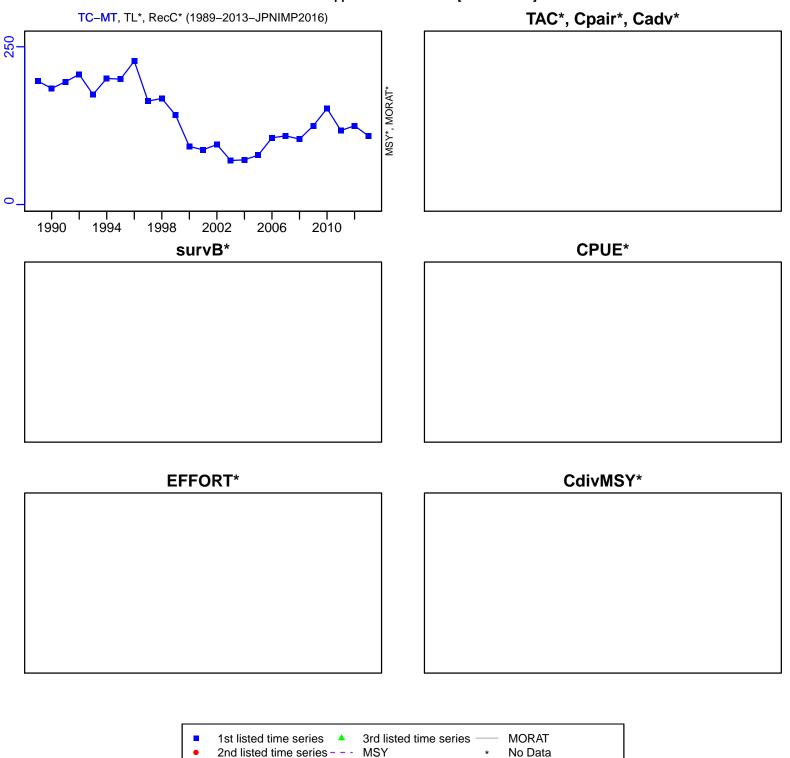
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

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



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

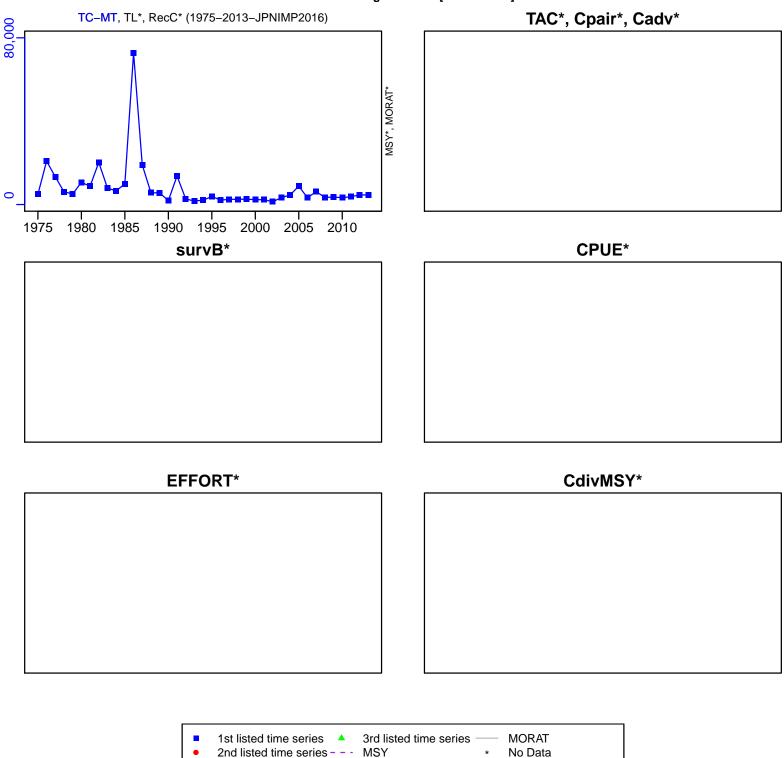
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	4600		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	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		

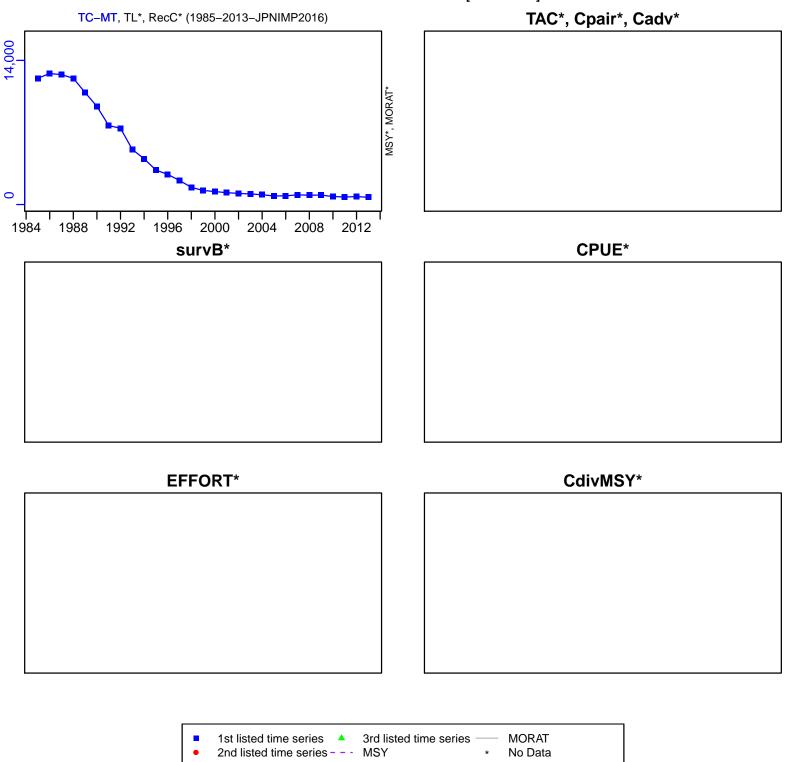
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	611		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ Start Year ◆ End Year \* No Data

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

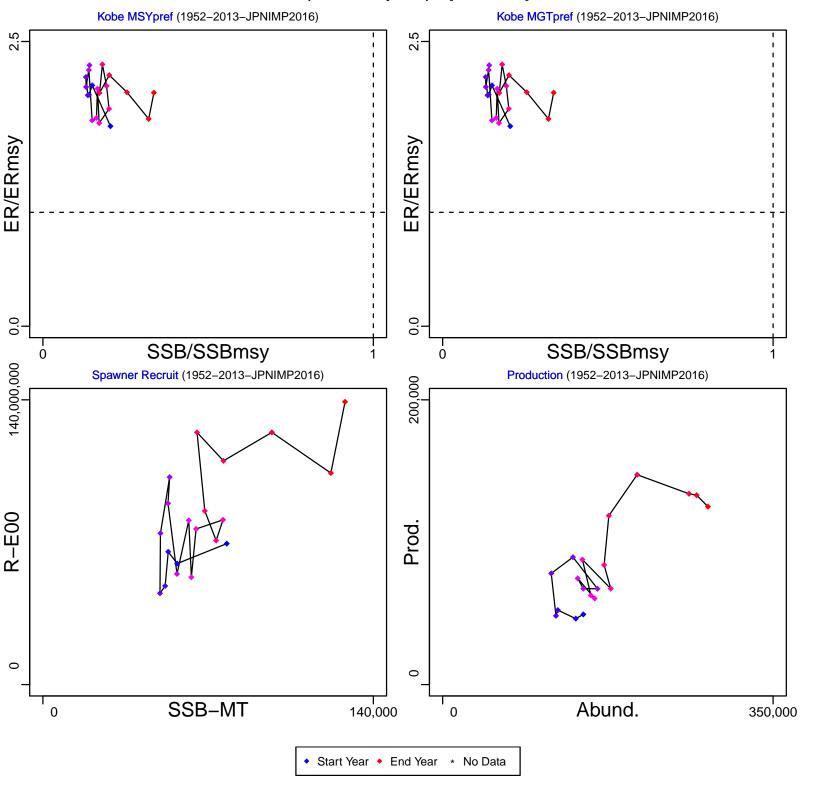


# Japanese amberjack Japan [JAMBERJPN]

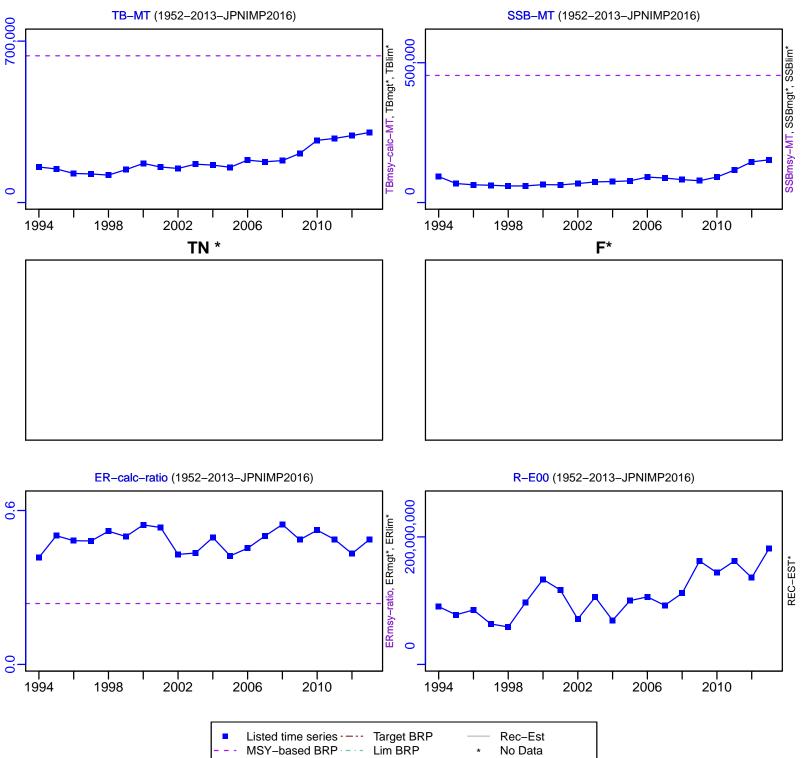
Metadata		
Scientific Name	Seriola quinqueradiata	
Current Assess ID	FAFRFJ-JAMBERJPN-1952-2013-JPNIMP2016	
Area	Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points			
Type	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	-	-	-

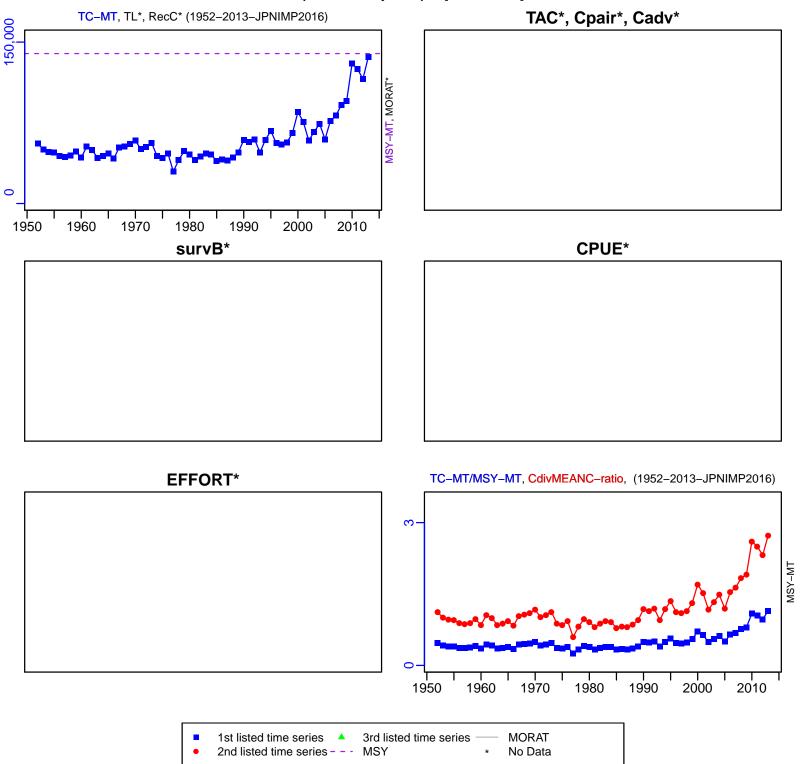
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	294,000	-	0
SSB	SSB-MT	2013	128,000	Both	2
TN	-	-	-	-	-
R	R-E00	2013	$1.39 \times 10^{8}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
TC	TC-MT	2013	132,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.477		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	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]



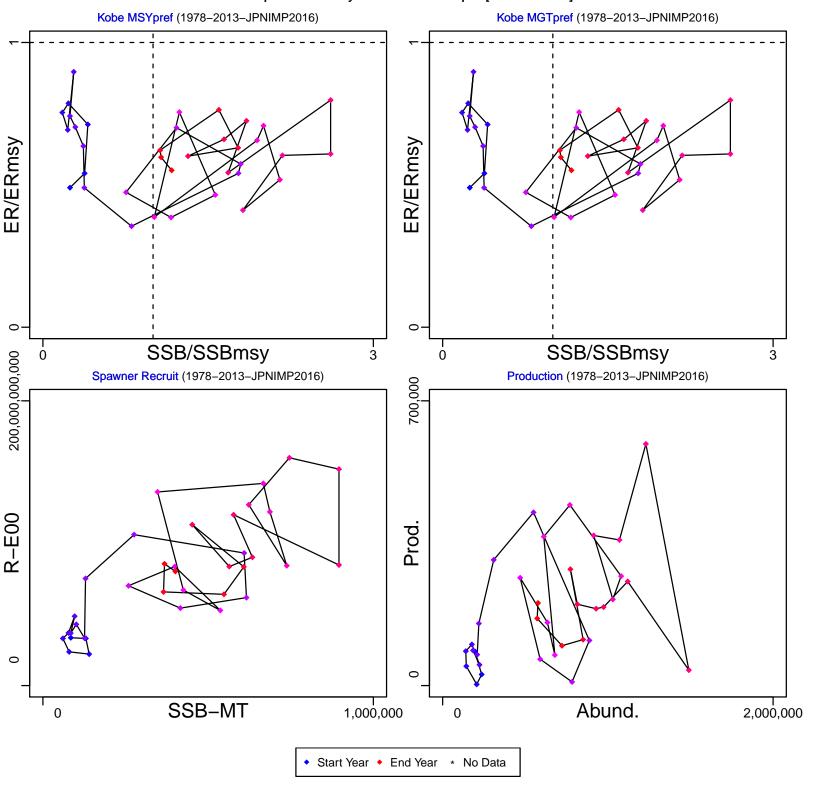
### Japanese amberjack Japan [JAMBERJPN]

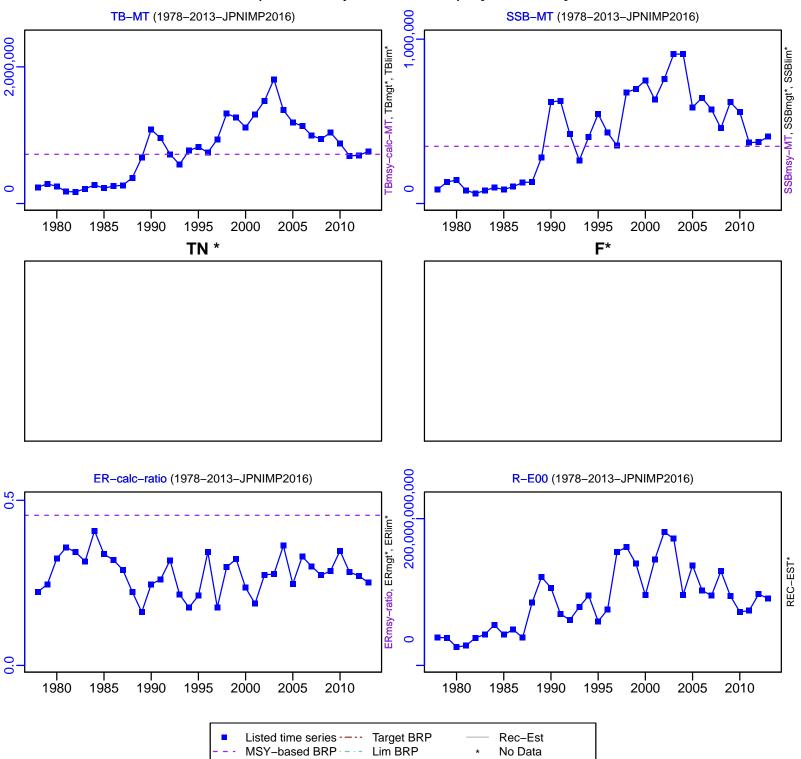


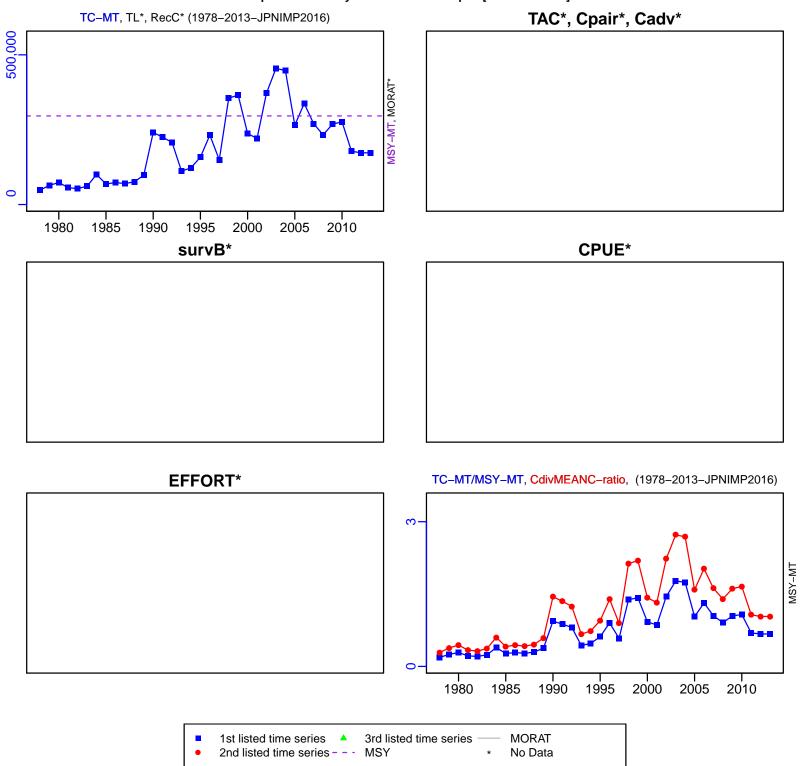
Metadata		
Scientific Name	Engraulis japonicus	
Current Assess ID	FAFRFJ-JANCHOPJPN-1978-2013-JPNIMP2016	
Area	Pacific Coast of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	625,000	-	0
SSB	SSB-MT	2013	401,000	-	1
TN	-	-	-	-	-
R	R-E00	2013	$8.02 \times 10^{10}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.248	-	-
TC	TC-MT	2013	155,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	1.059		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.169		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.551		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







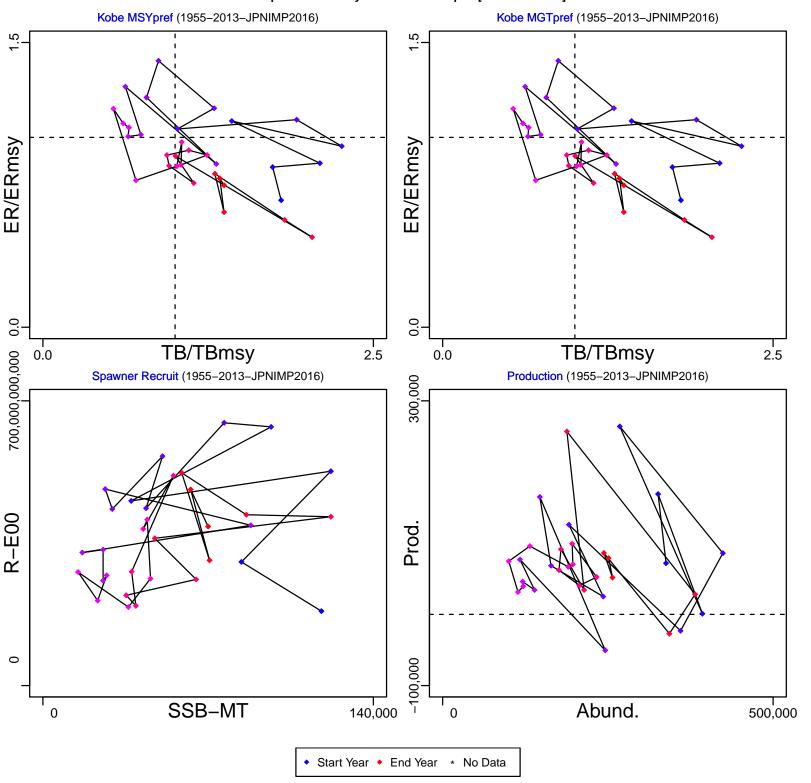
# Japanese anchovy Inland Sea of Japan [JANCHOSETO]

	Metadata
Scientific Name	Engraulis japonicus
Current Assess ID	FAFRFJ-JANCHOSETO-1955-2013-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

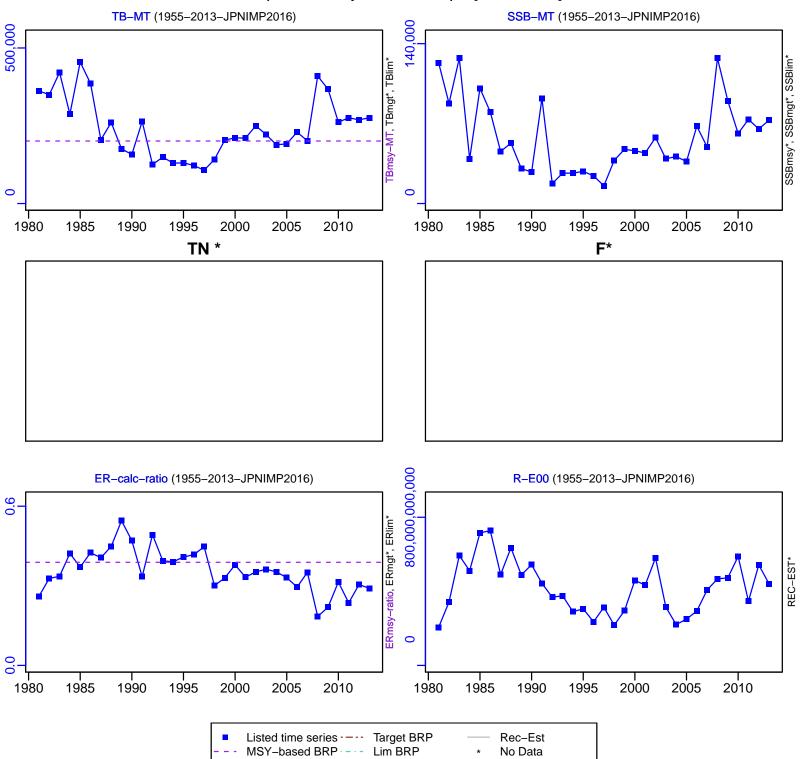
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	187,524
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.371
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	69,571
M	M-1/yr	2013	2.41
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

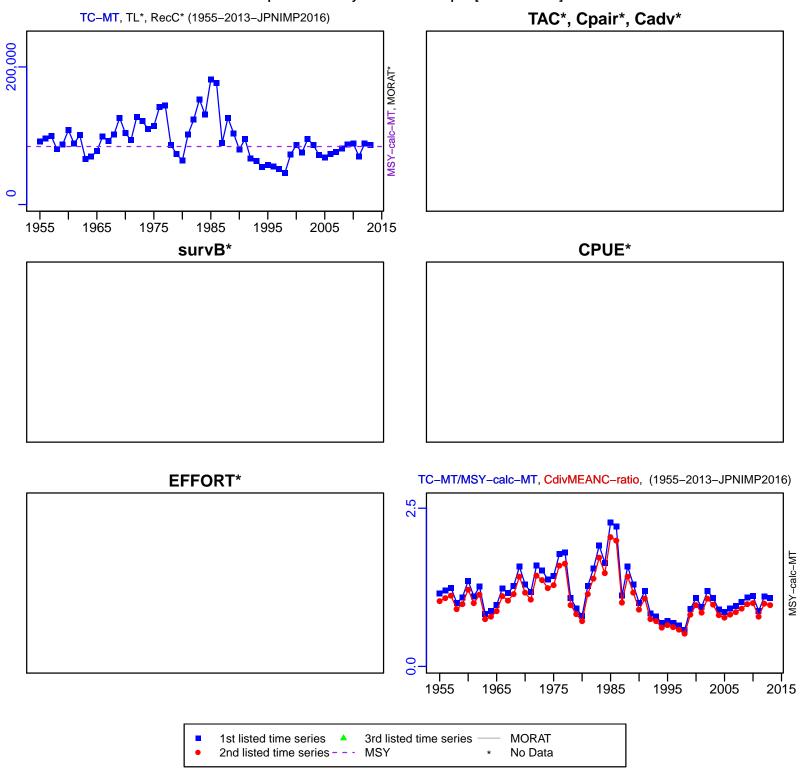
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	257,000	-	0
SSB	SSB-MT	2013	70,000	Both	0.4166667
TN	-	-	-	-	-
R	R-E00	2013	$3.91\times10^{11}$	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.277	-	-
TC	TC-MT	2013	71,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.37		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.748		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

### Japanese anchovy Inland Sea of Japan [JANCHOSETO]



#### Japanese anchovy Inland Sea of Japan [JANCHOSETO]





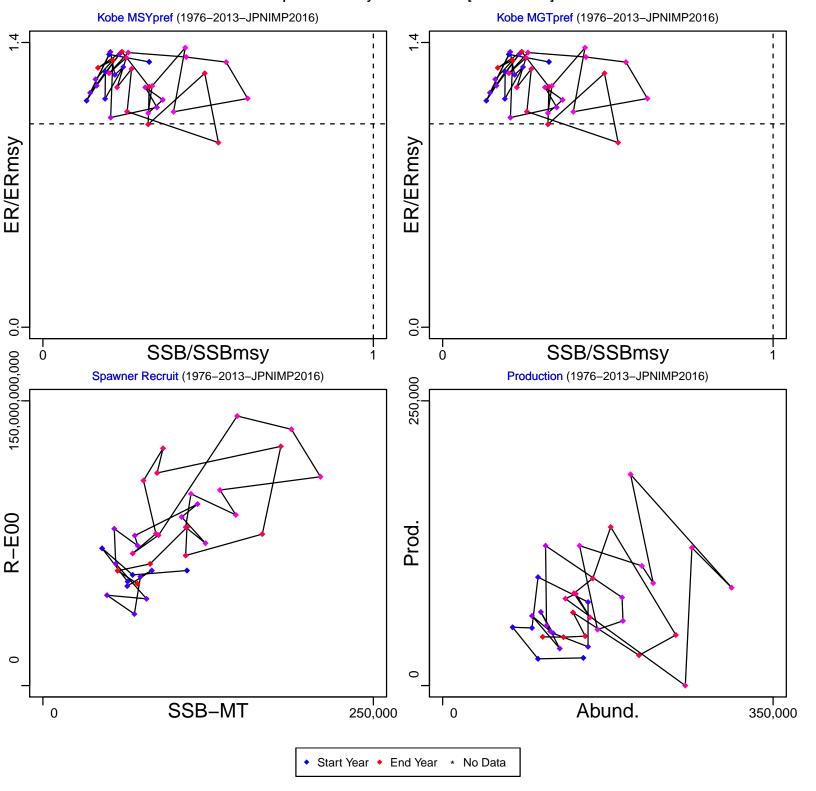
# Japanese anchovy Tsushima Strait [JANCHOTSST]

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

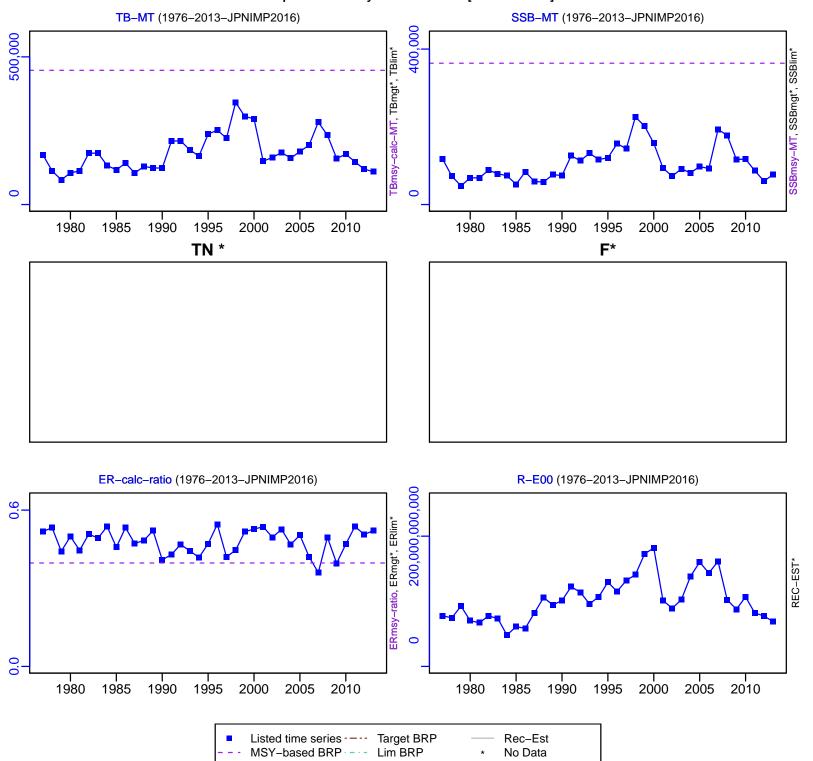
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2013	402,460			
SSBmsy	SSBmsy-MT	2013	338,932			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2013	0.372			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2013	149,715			
М	M-1/yr	2013	1			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2013	98,500	-	0		
SSB	SSB-MT	2013	71,500	Both	1		
TN	-	-	-	-	-		
R	R-E00	2013	$5.37 \times 10^{10}$	-	0		
F	-	-	-	-	-		
ER	ER-calc-ratio	2013	0.488	-	-		
TC	TC-MT	2013	48,100				
TL	-	-	-				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.245				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.211				
F/Fmsy	-	-	-				
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.313				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

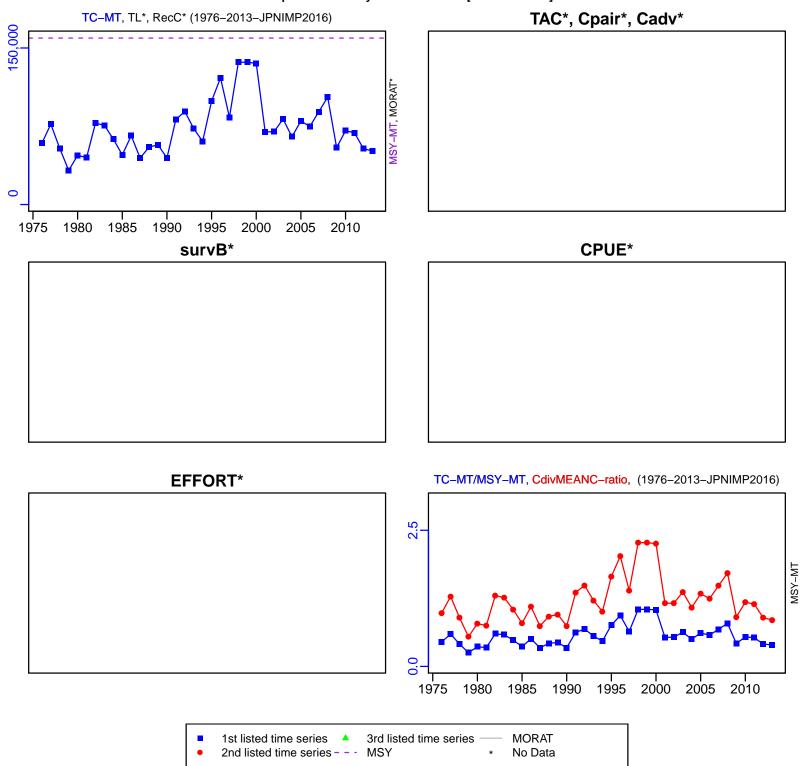
### Japanese anchovy Tsushima Strait [JANCHOTSST]



#### Japanese anchovy Tsushima Strait [JANCHOTSST]



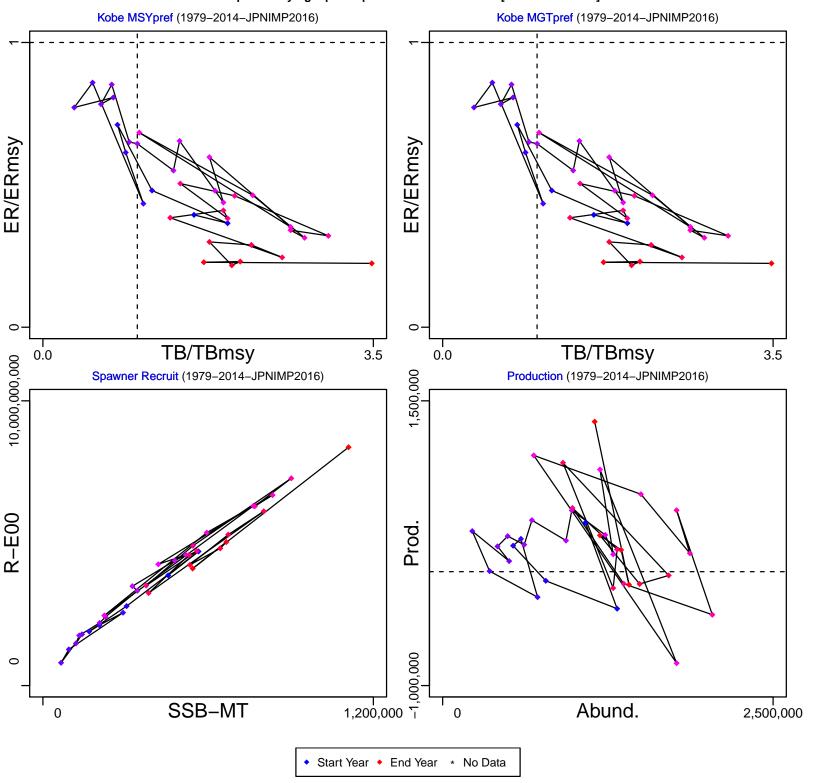
#### Japanese anchovy Tsushima Strait [JANCHOTSST]

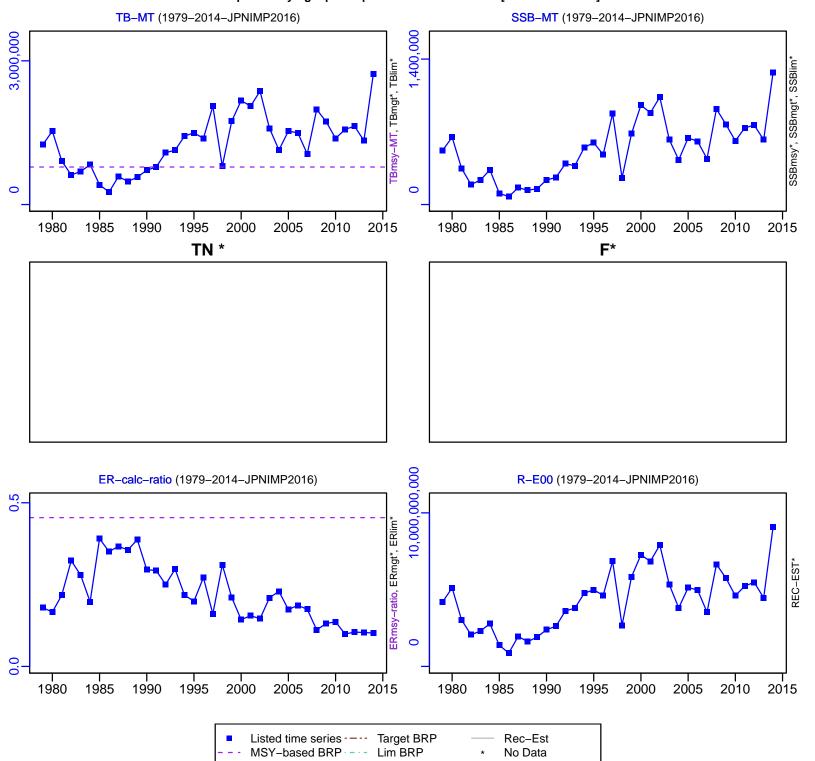


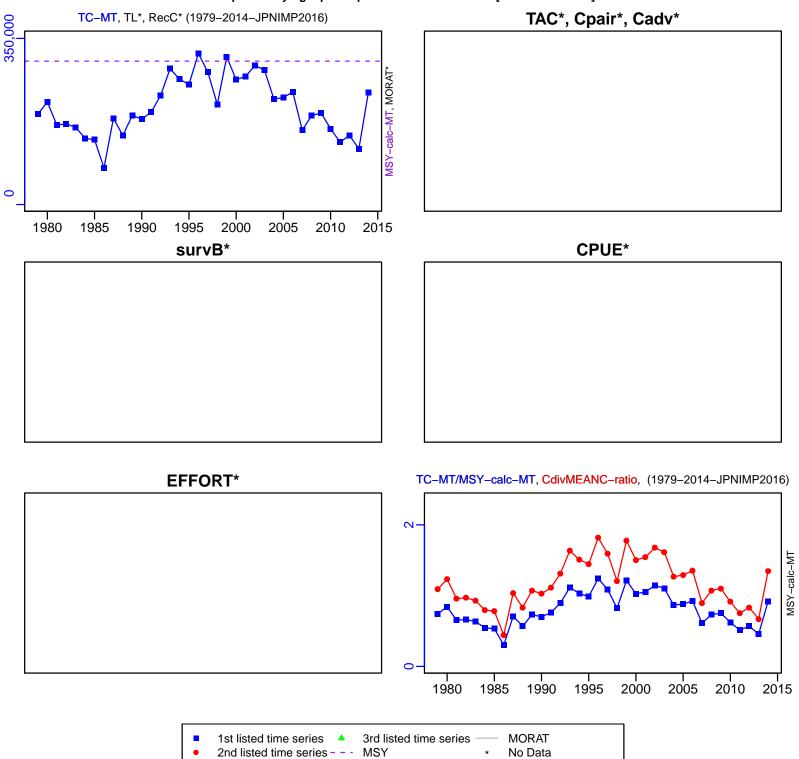
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID FAFRFJ-JCSQUIDJPNAR-1979-2014-JPNIMP2016			
Area Japan Autumn recruitment			
Management Authority	Fisheries Agency of Japan		
Assessor Fisheries Agency and Fisheries Research Agency of Jap			
Asmts in RAM	2014		

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	$8.37 \times 10^{9}$	-	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	-	-	-		



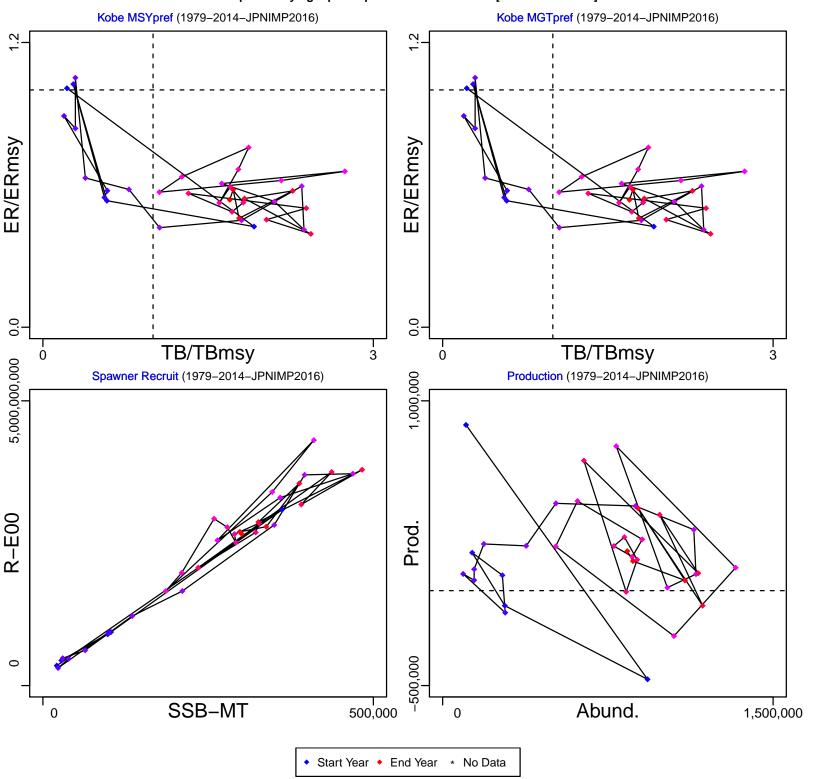


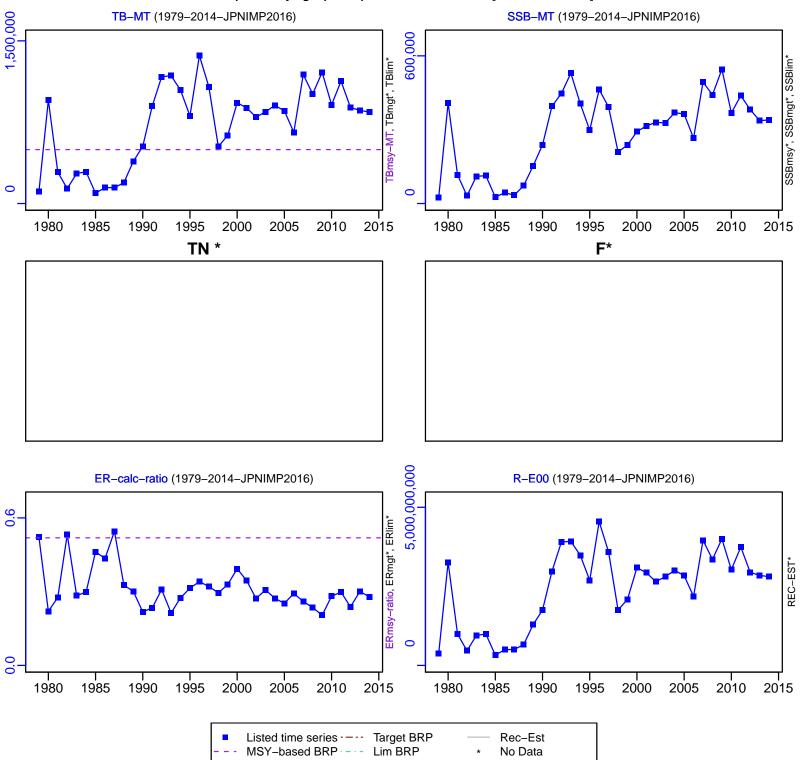


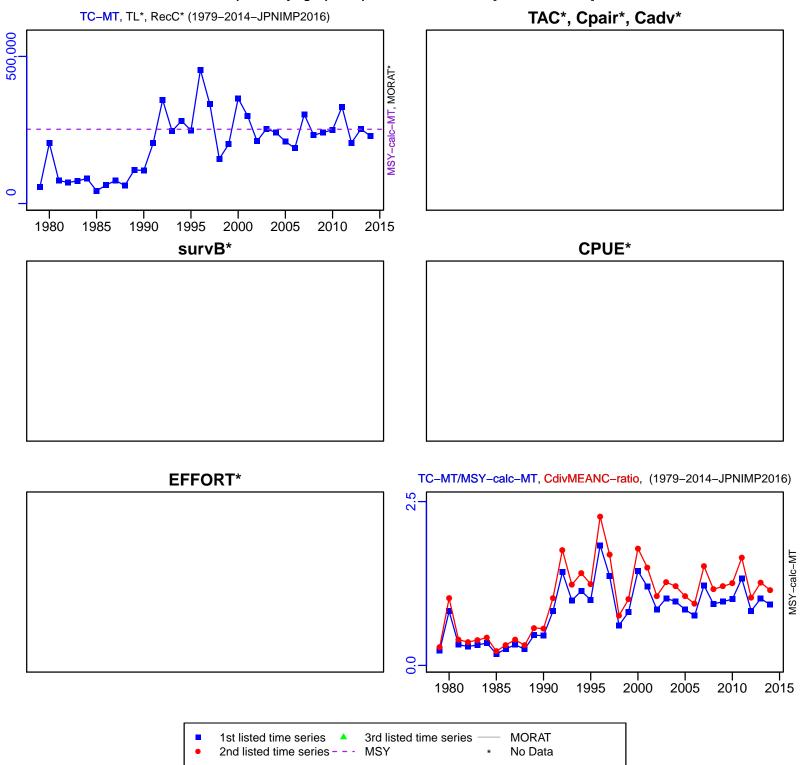
Metadata			
Scientific Name	Todarodes pacificus		
Current Assess ID FAFRFJ-JCSQUIDJPNWR-1979-2014-JPNIMP2016			
Area Japan Winter recruitment			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2014		

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

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	823,000	-	0.5
SSB	SSB-MT	2014	301,000	Both	0.5
TN	-	-	-	-	-
R	R-E00	2014	$2.66 \times 10^{9}$	-	0.5
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.247	-	-
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	-	-	-		



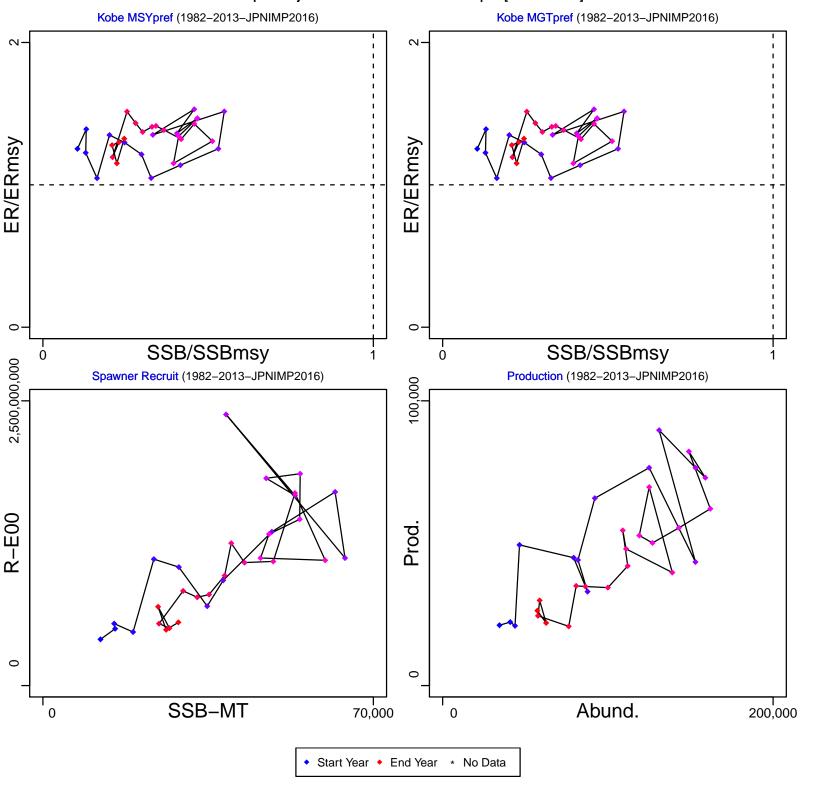


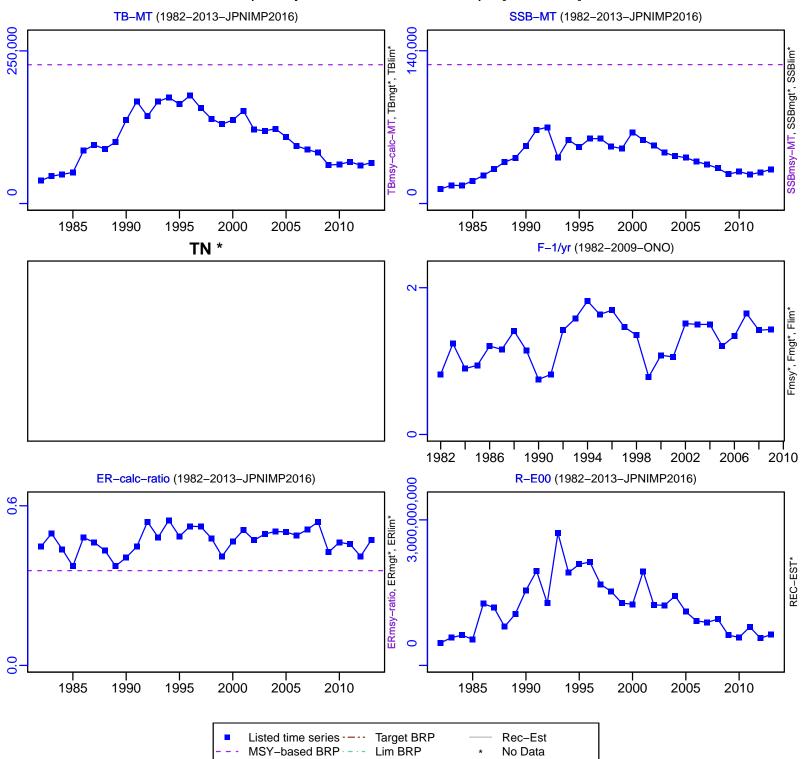


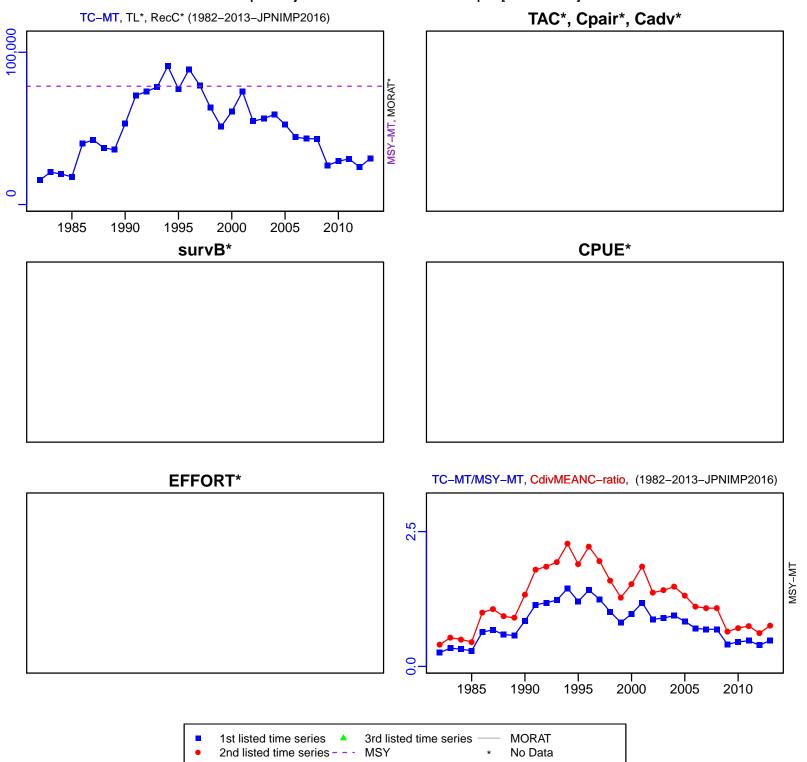
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKPJPN-1982-2013-JPNIMP2016			
Area Pacific Coast of Japan			
Management Authority Fisheries Agency of Japan			
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2009, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	208,037	
SSBmsy	SSBmsy-MT	2013	116,600	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.341	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	70,941	
M	M-1/yr	2013	0.5	
TBlim	TBlim-MT	2009	24	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	61,100	-	0
SSB	SSB-MT	2013	28,700	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.55 \times 10^{8}$	-	0
F	F-1/yr	2009	1.26	Both	0 to 2
ER	ER-calc-ratio	2013	0.452	-	-
TC	TC-MT	2013	27,600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.294		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.246		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.325		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



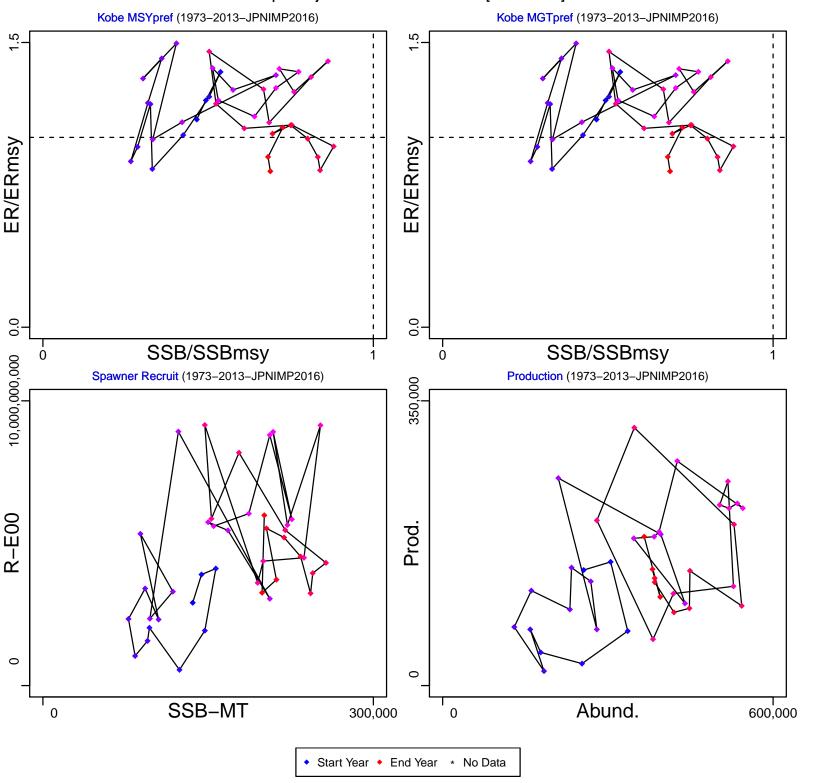


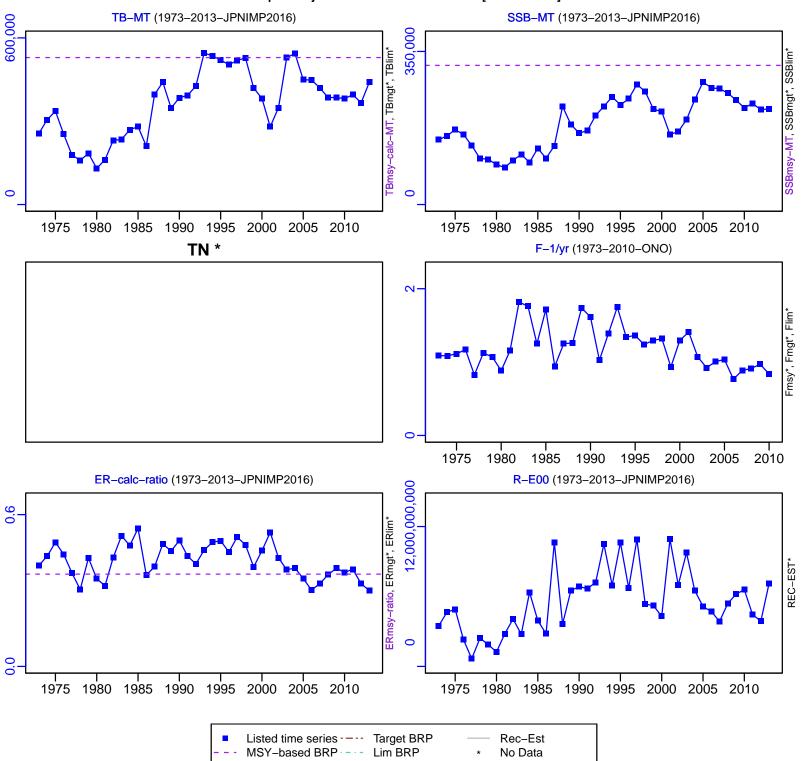


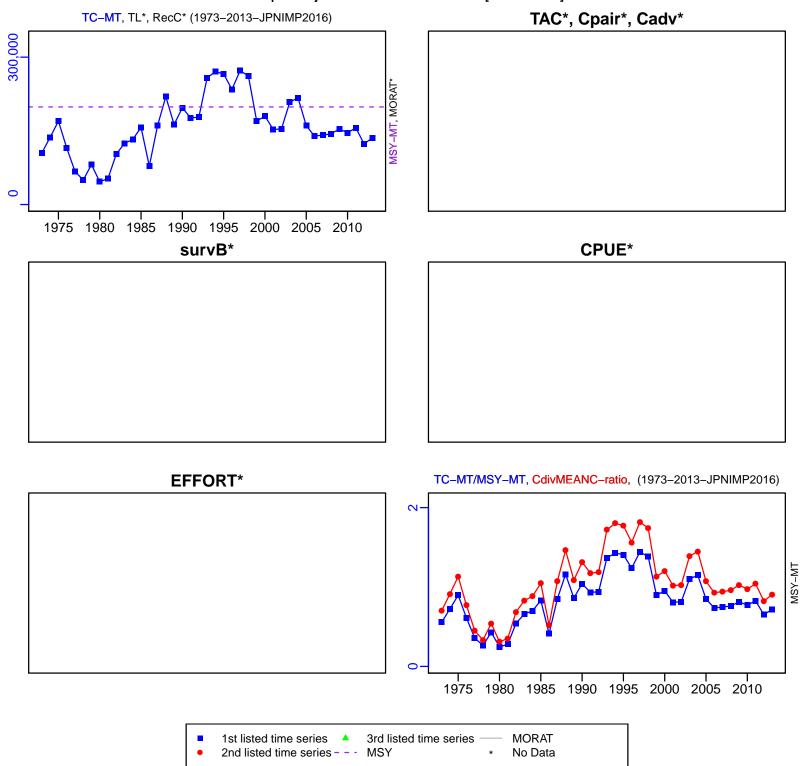
Metadata			
Scientific Name	Trachurus japonicus		
Current Assess ID FAFRFJ-JMACKTSST-1973-2013-JPNIMP2016			
Area Tsushima Strait			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	528,740	
SSBmsy	SSBmsy-MT	2013	292,056	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.332	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	175,542	
М	M-1/yr	2013	0.5	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	150,000	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	440,000	-	0
SSB	SSB-MT	2013	201,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.98 \times 10^{9}$	-	0
F	F-1/yr	2010	0.736	-	0 to 3
ER	ER-calc-ratio	2013	0.273	-	-
TC	TC-MT	2013	120,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.832		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.688		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.821		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



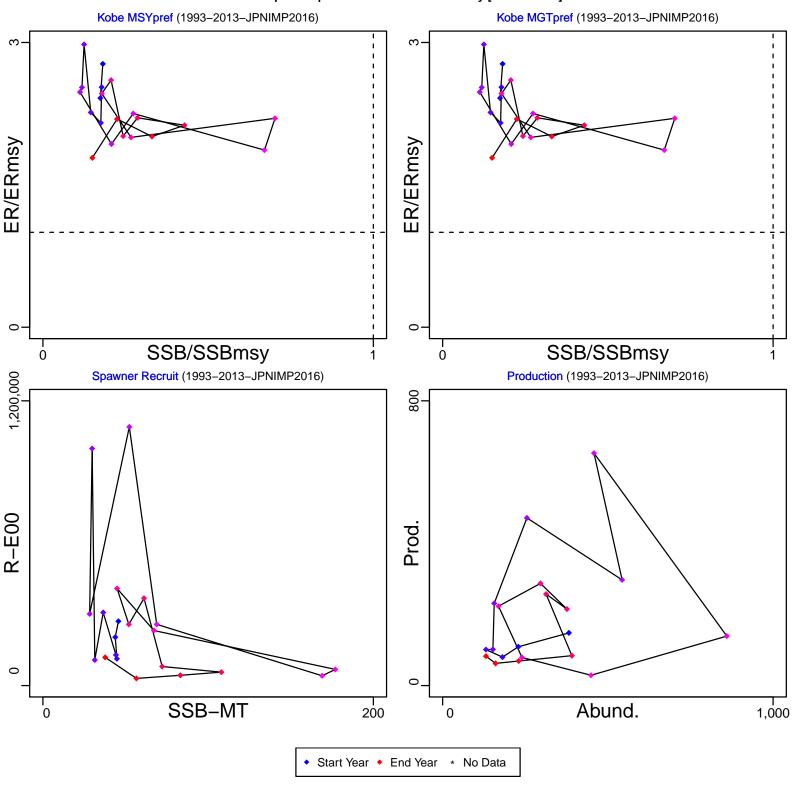


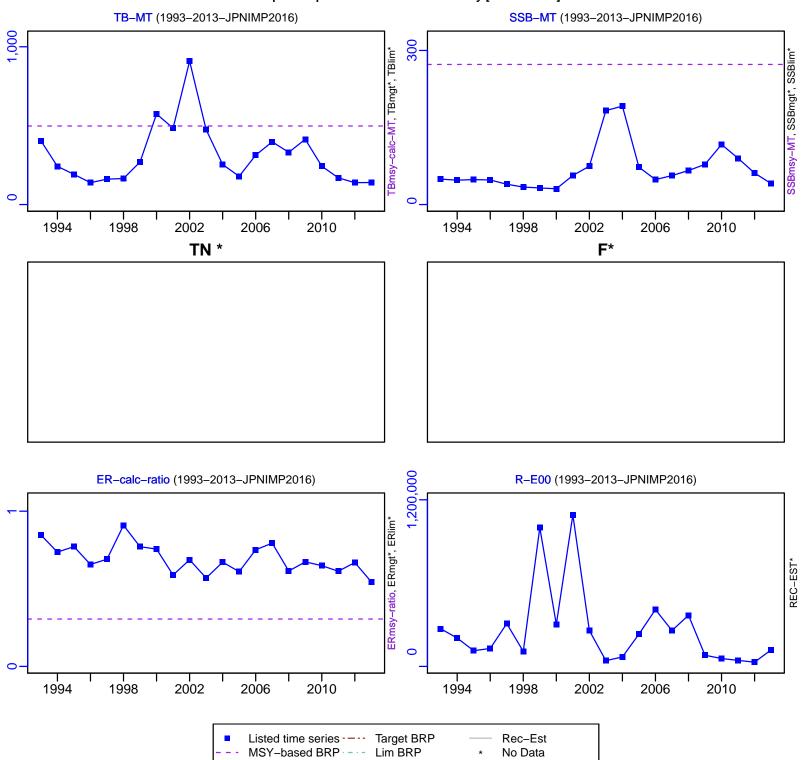


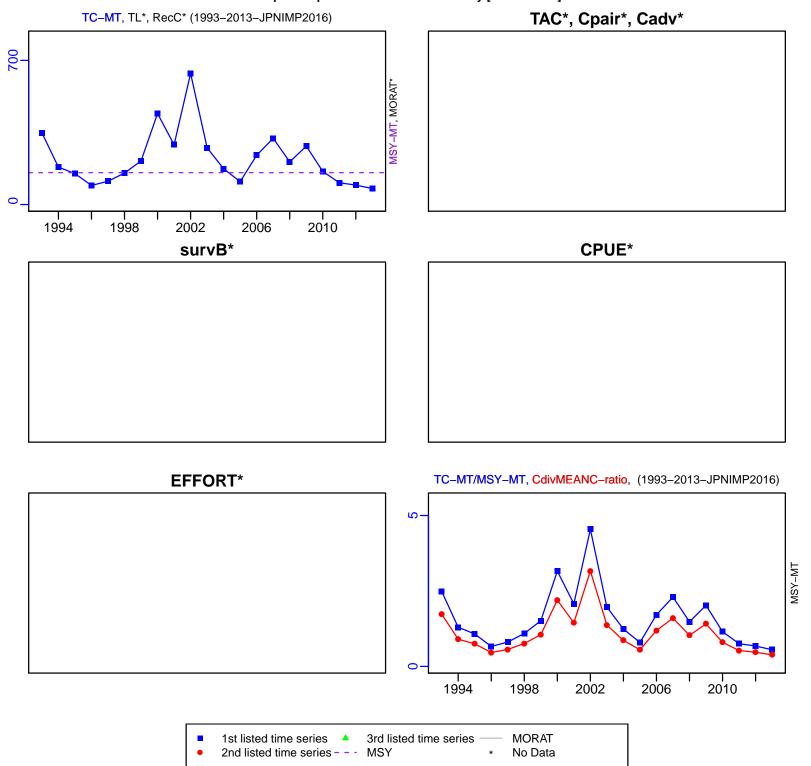
Metadata		
Scientific Name	Takifugu rubripes	
Current Assess ID	FAFRFJ-JPUFFIMKB-1993-2013-JPNIMP2016	
Area	Ise and Mikawa Bay	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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	-	-	-		







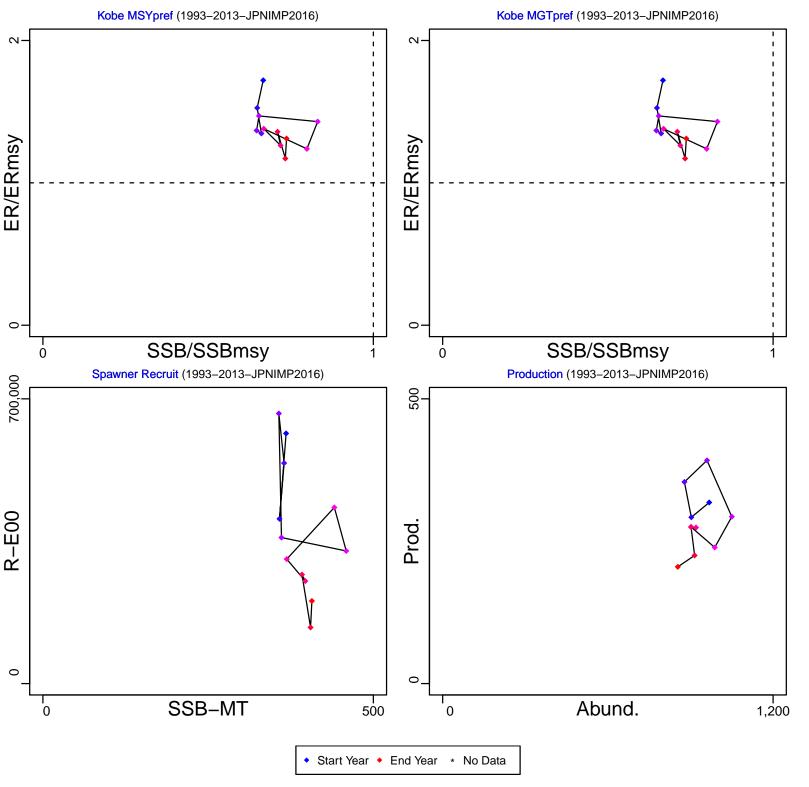
# Japanese pufferfish Sea of Japan and East China Sea and Seto Inland sea [JPUFFSOJECSSI]

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	

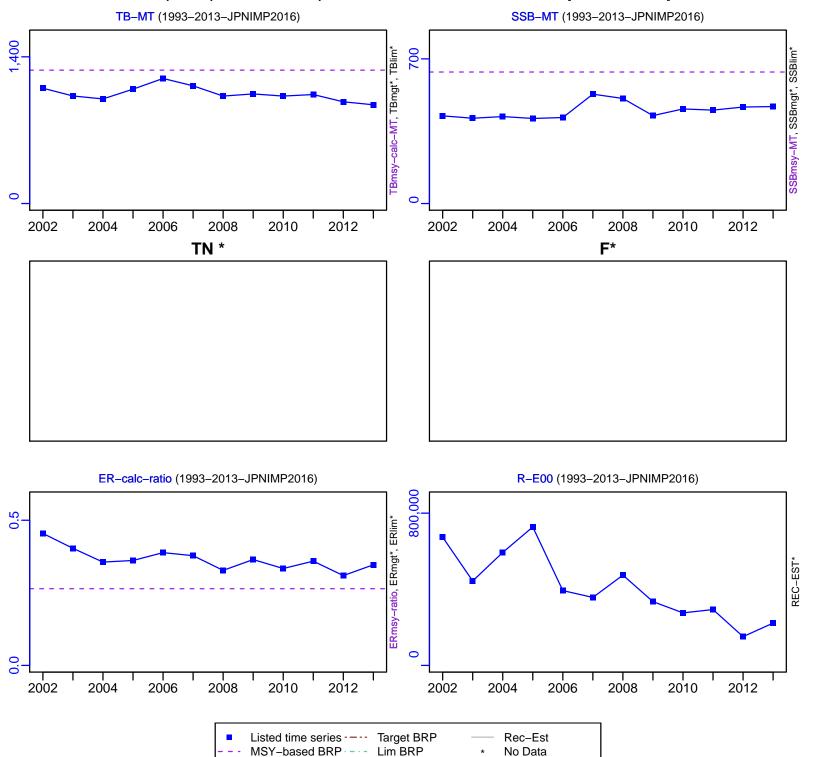
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	1120	
SSBmsy	SSBmsy-MT	2013	552	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.23	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	258	
M	M-1/yr	2013	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim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

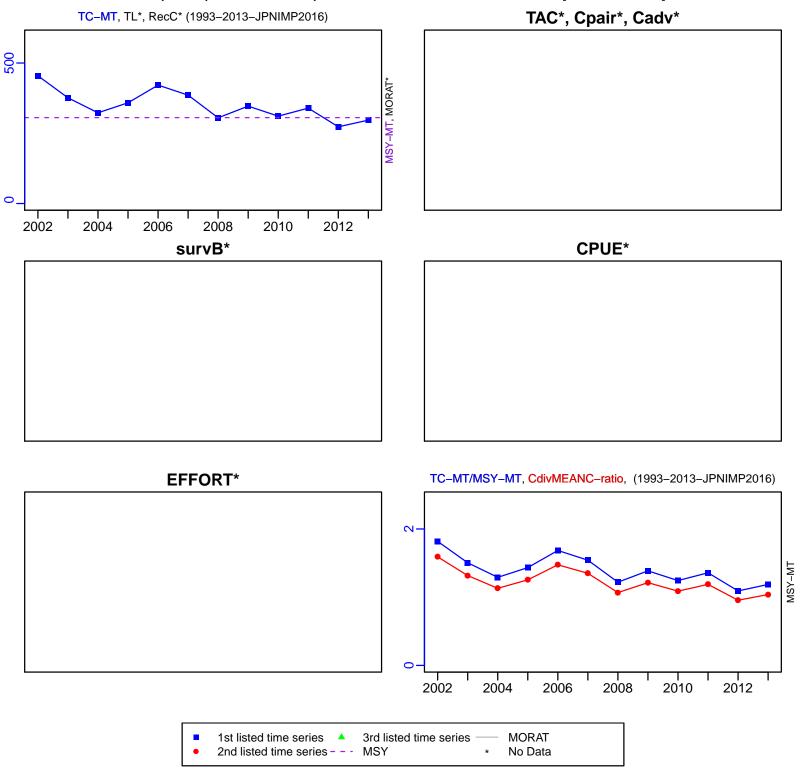
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	829	-	0
SSB	SSB-MT	2013	407	Both	3
TN	-	-	-	-	-
R	R-E00	2013	203,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.302	-	-
TC	TC-MT	2013	250		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.74		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.737		
F/Fmsy	-	-	-		
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	

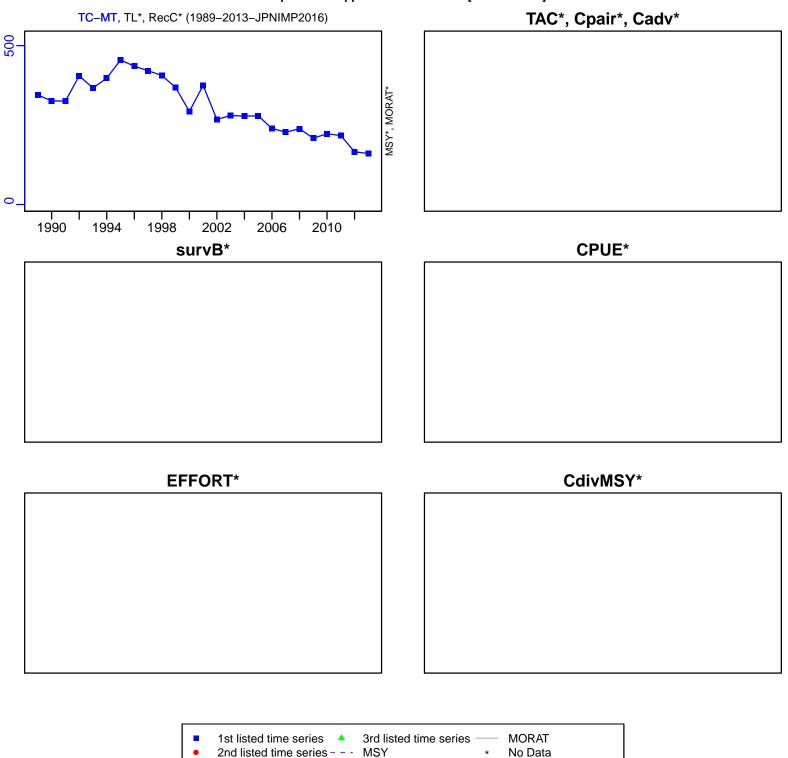
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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 MGT*
Production*

◆ Start Year ◆ End Year \* No Data

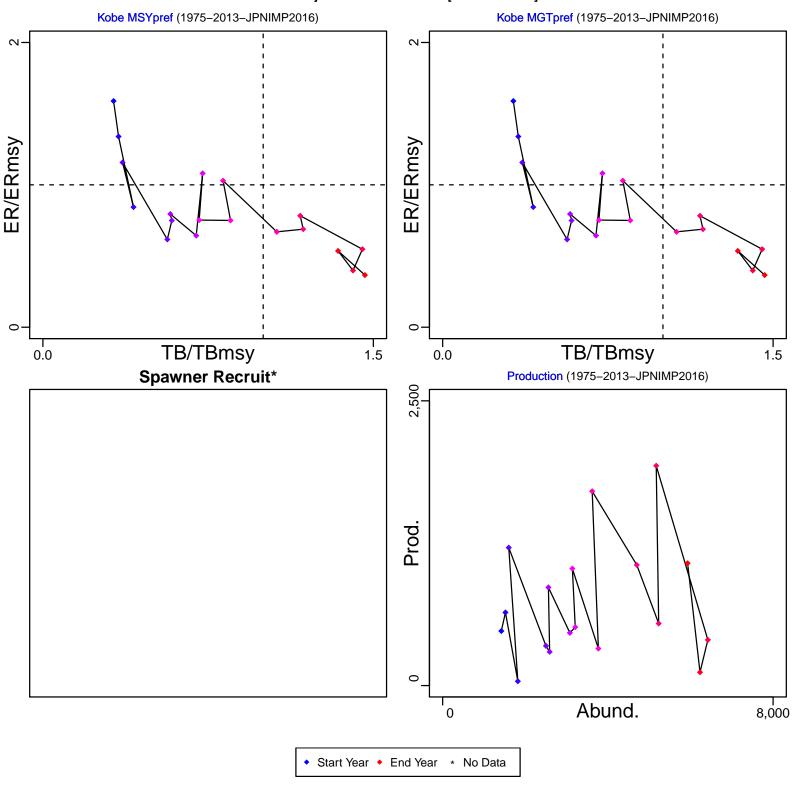
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	im BRP * No Data

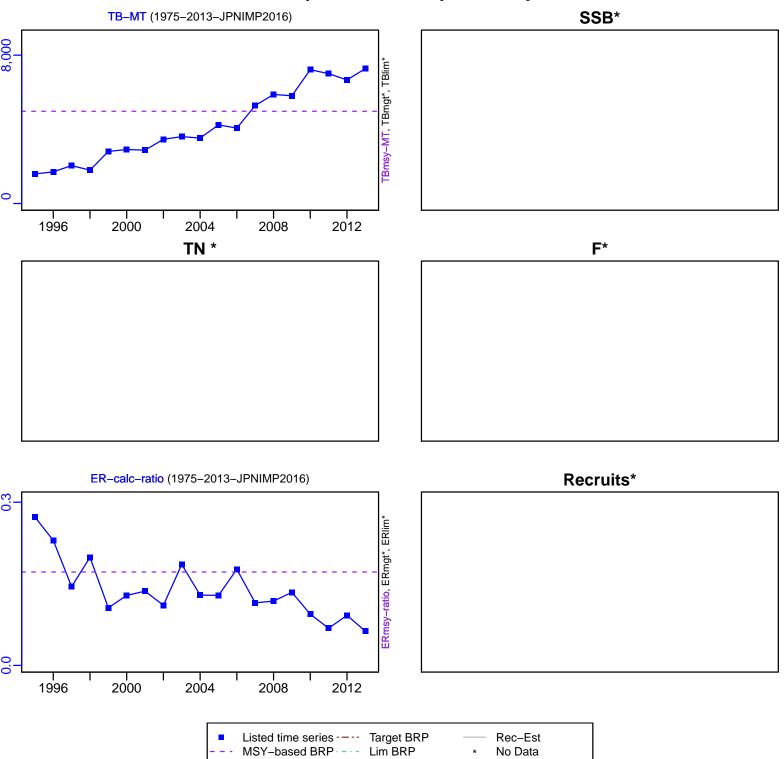


Metadata		
Scientific Name	Sebastolobus macrochir	
Current Assess ID	FAFRFJ-KCROCKNPAC-1975-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

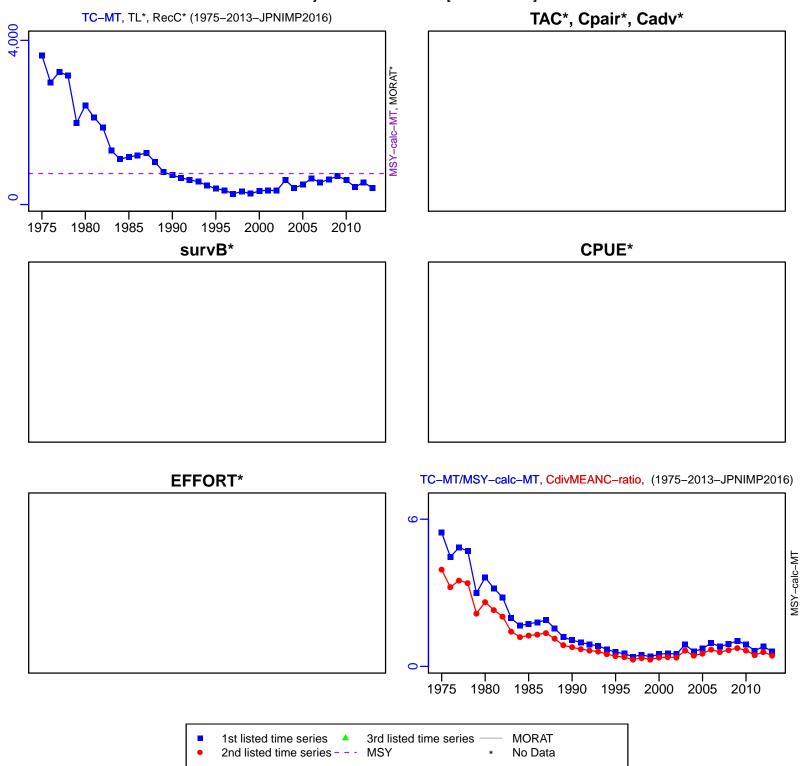
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	4426
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.168
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	744
M	M-1/yr	2013	0.125
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

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	309		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]

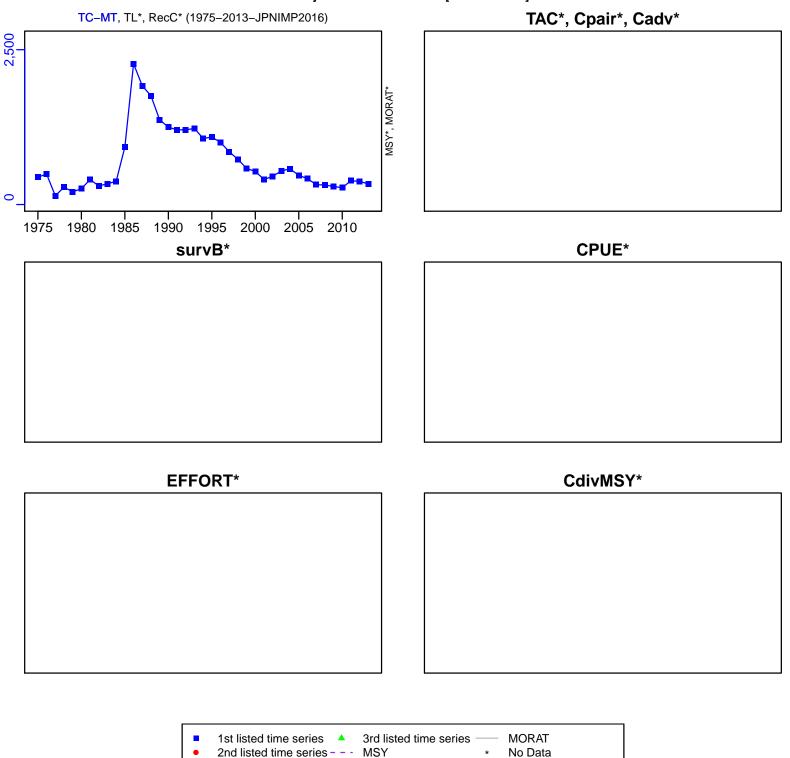
Kobe MSY*	Kobe MGT*
	J
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]

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

## Kichiji rockfish Okhotsk Sea [KCROCKOKS]



Metadata	
Scientific Name	Sebastolobus macrochir
Current Assess ID	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

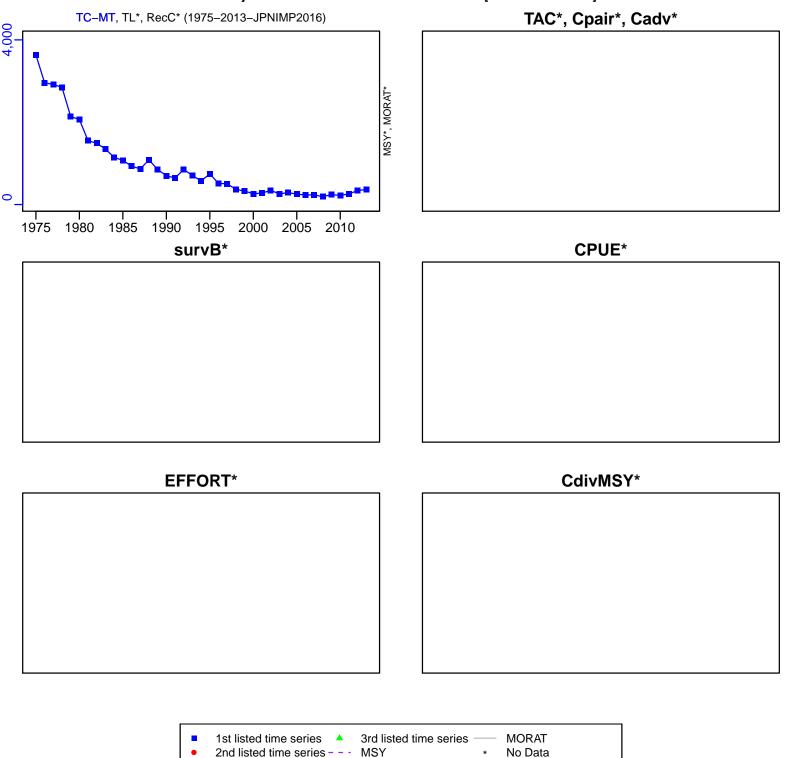
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	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*
ED*	Pooruito*
ER*	Recruits*
■ Linted time povice T	protect PPD ——————————————————————————————————
Listed time series Ta	arget BRP — Rec–Est 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

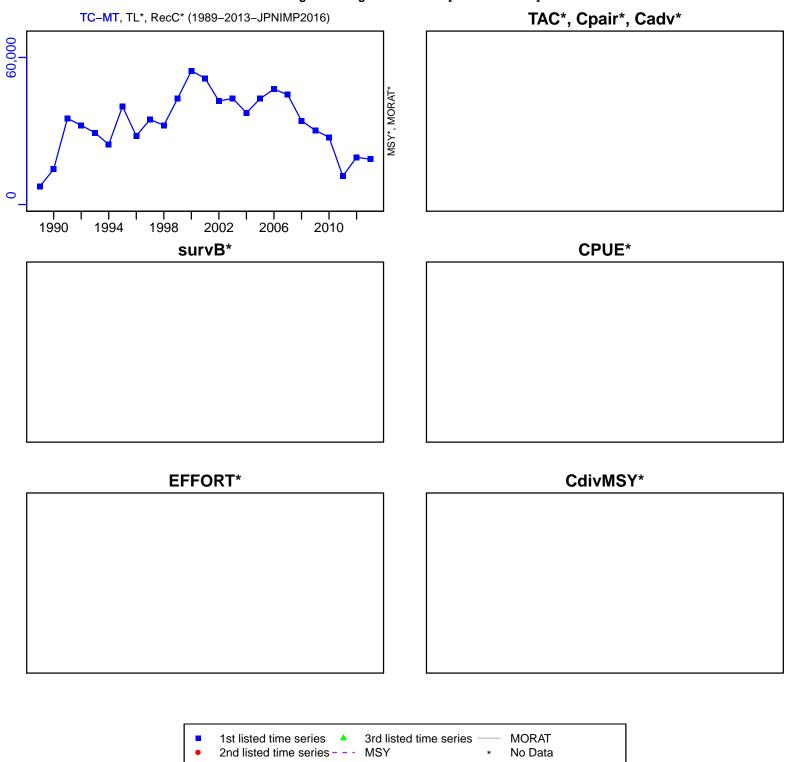
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

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



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

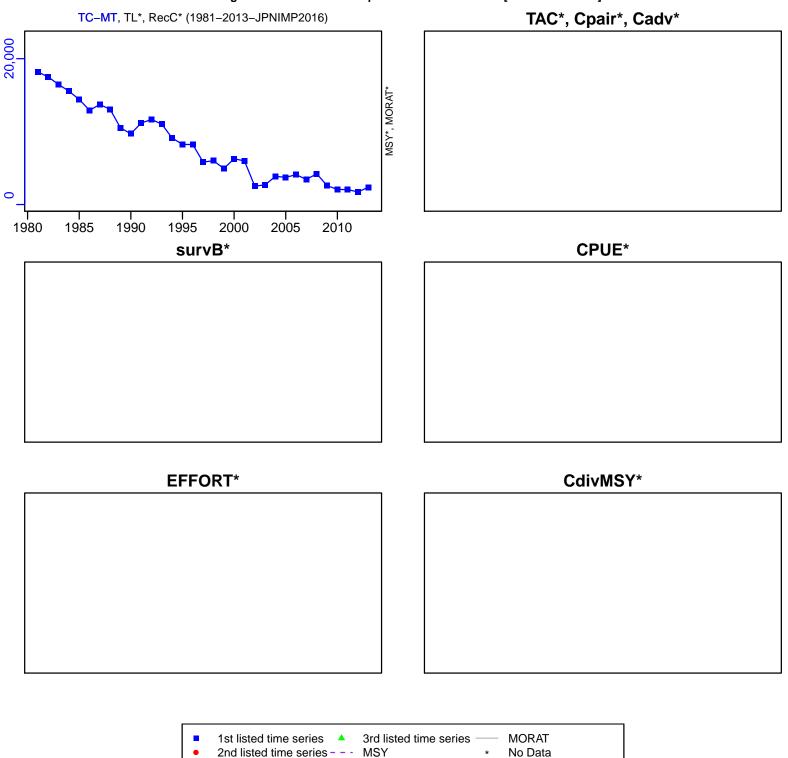
Reference Points							
Туре							
TBmsy	-	-	-				
SSBmsy	-	-	-				
Fmsy	-	-	-				
ERmsy	-	-	-				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	-	-	-				
M	-	-	-				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

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

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

◆ Start Year ◆ End Year \* No Data

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

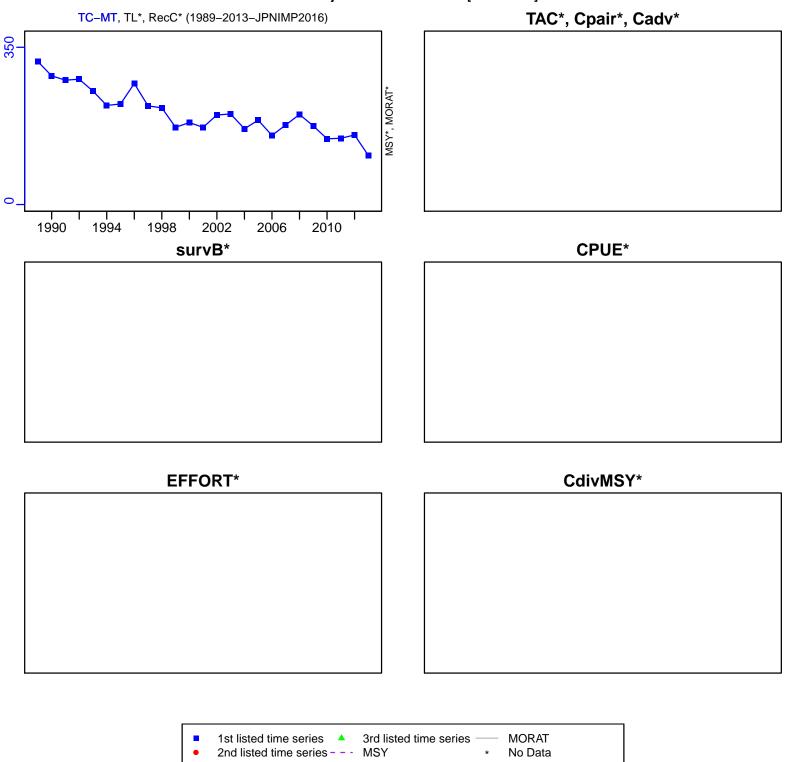
Reference Points						
Туре						
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	-	-	-			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

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

Kobe MSY*	Kobe MGT*
■ Lui	Dun desation *
Spawner Recruit*	Production*
Spawner Recruit*	Production*
Spawner Recruit*	Production
Spawner Recruit*	Production*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

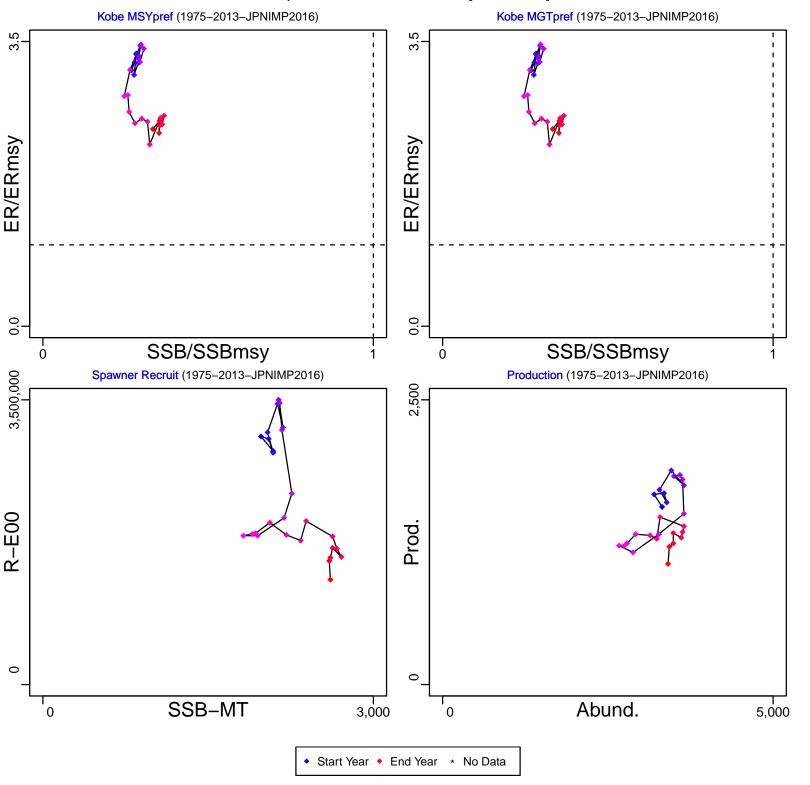
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

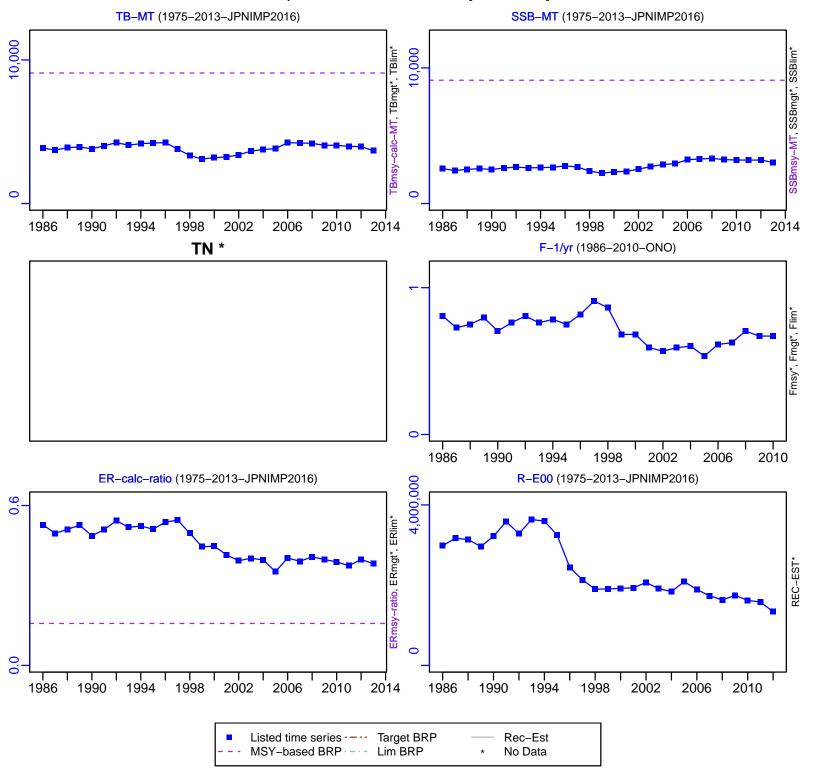


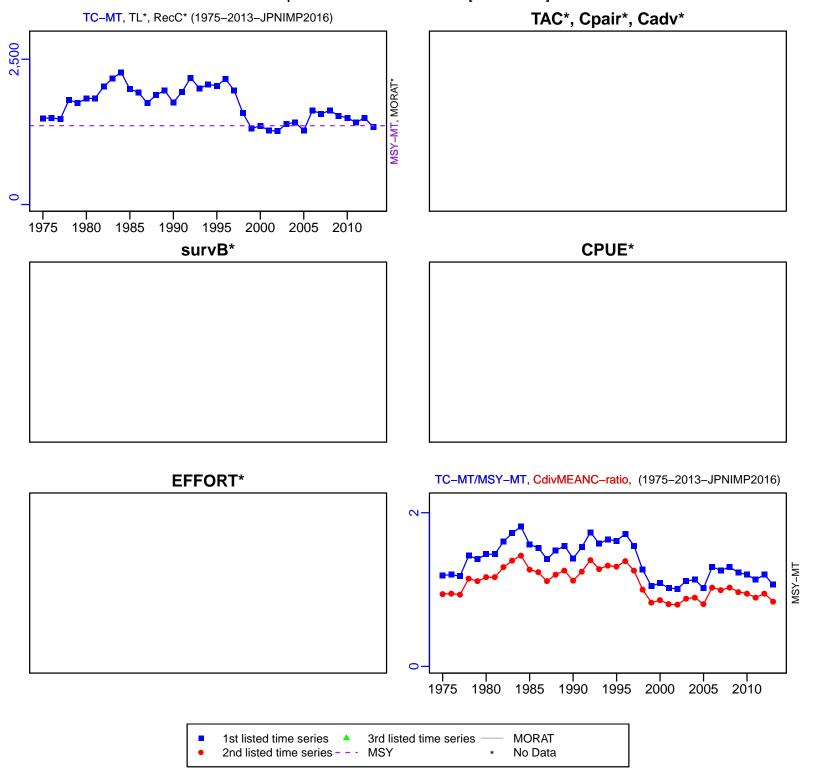
Metadata		
Scientific Name	Paralichthys olivaceus	
Current Assess ID	FAFRFJ-OFLOUNECS-1975-2013-JPNIMP2016	
Area	East China Sea	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013, 2010	

Reference Points						
Туре						
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	-	-	-		



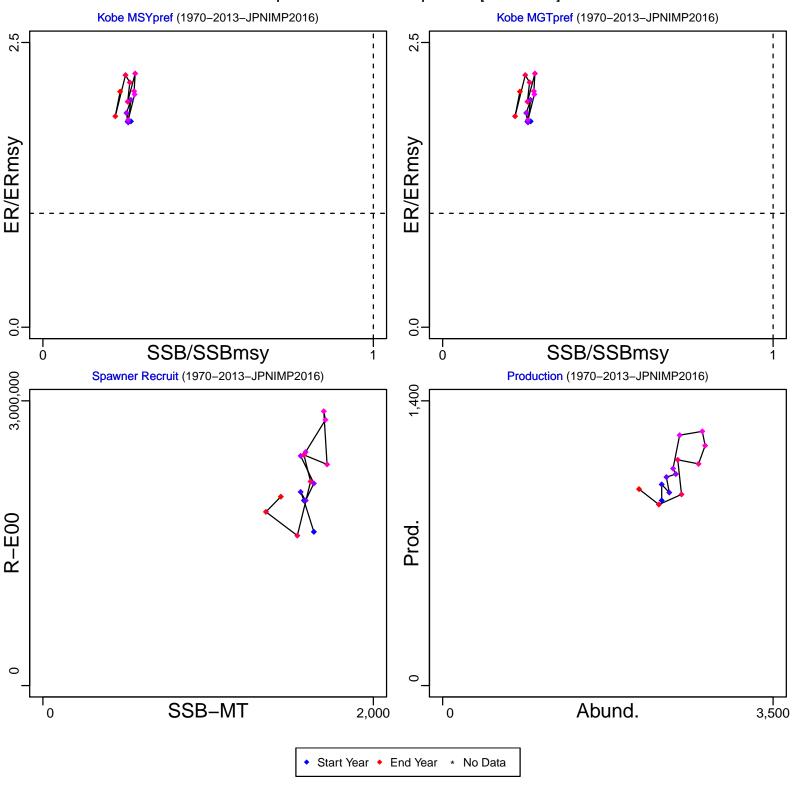


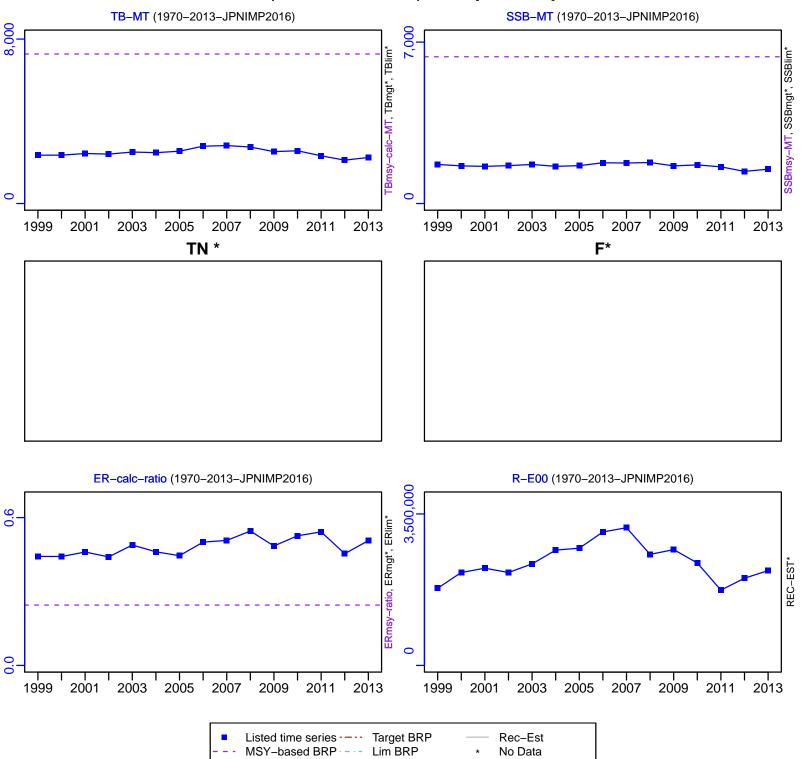


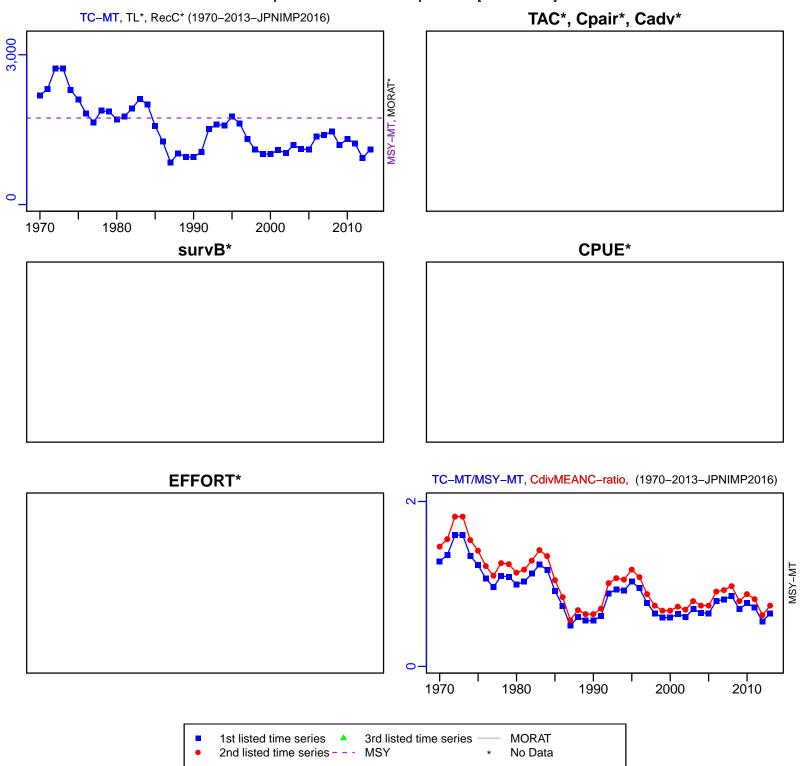
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID	FAFRFJ-OFLOUNNSJ-1970-2013-JPNIMP2016		
Area Sea of Japan North			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2010		

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2210	-	1
SSB	SSB-MT	2013	1440	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,990,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
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	-	-	-		



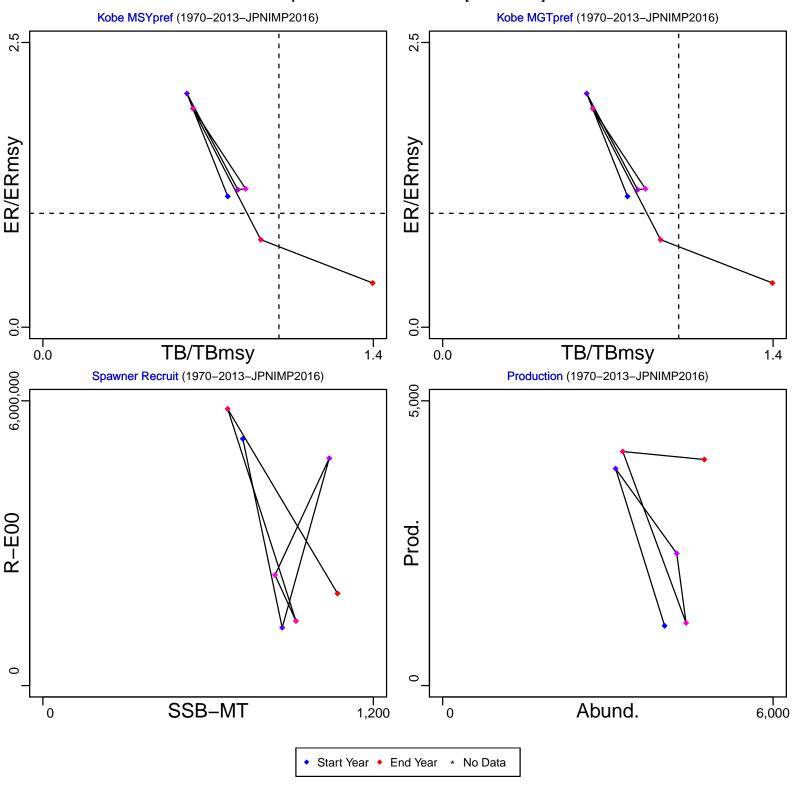


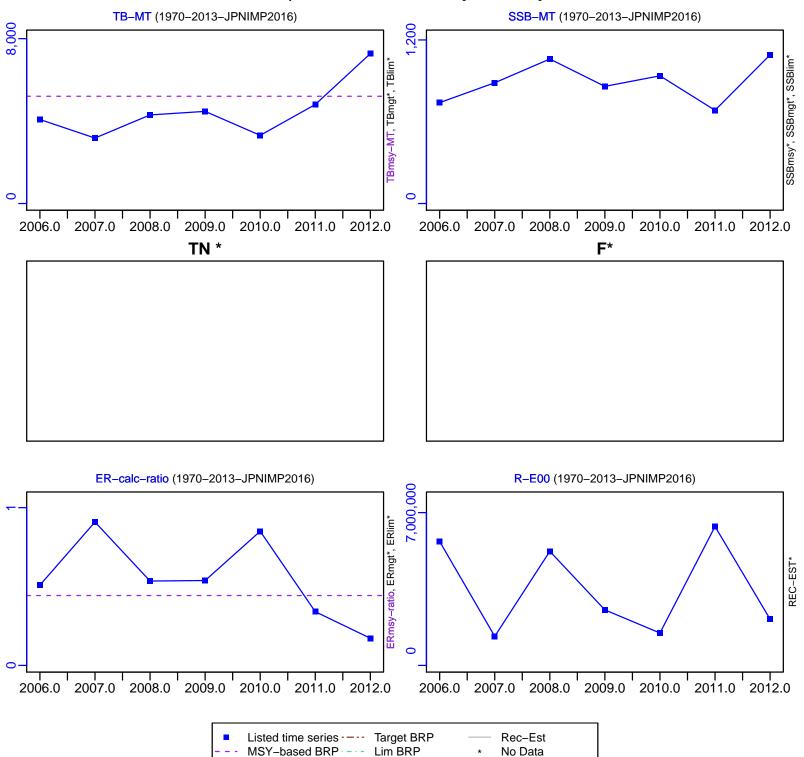


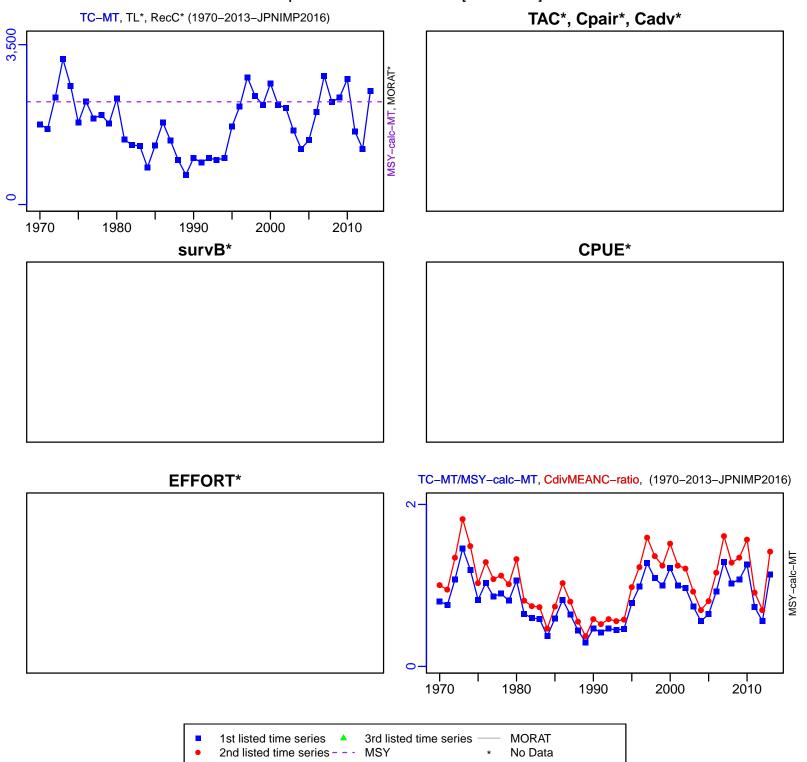
Metadata			
Scientific Name	Paralichthys olivaceus		
Current Assess ID	FAFRFJ-OFLOUNPAC-1970-2013-JPNIMP2016		
Area Pacific Ocean			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013, 2009		

Reference Points				
Type	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	-	-	-		







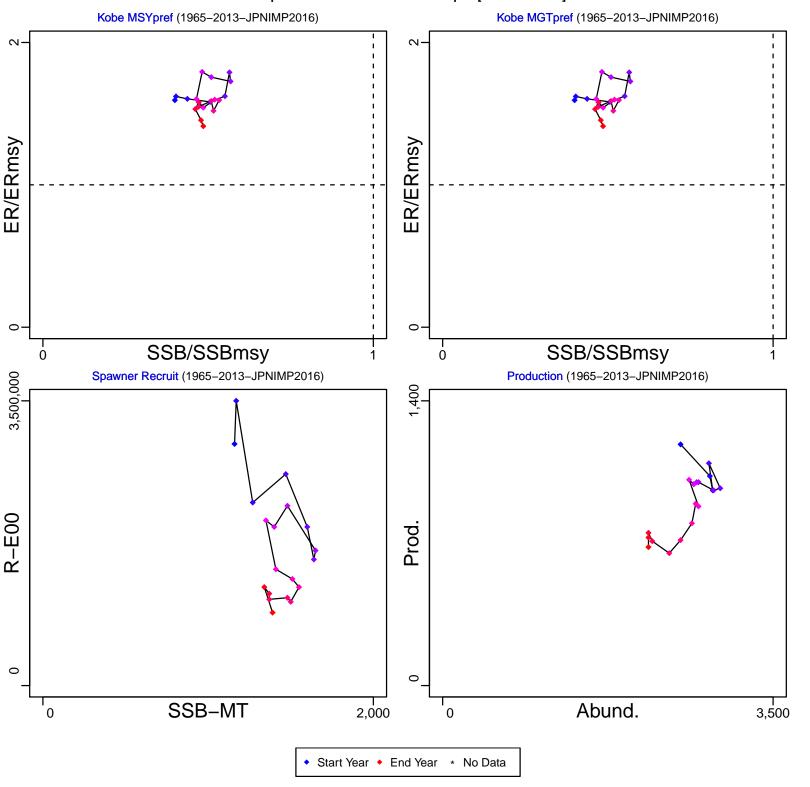
# Japanese flounder Inland Sea of Japan [OFLOUNSETO]

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		

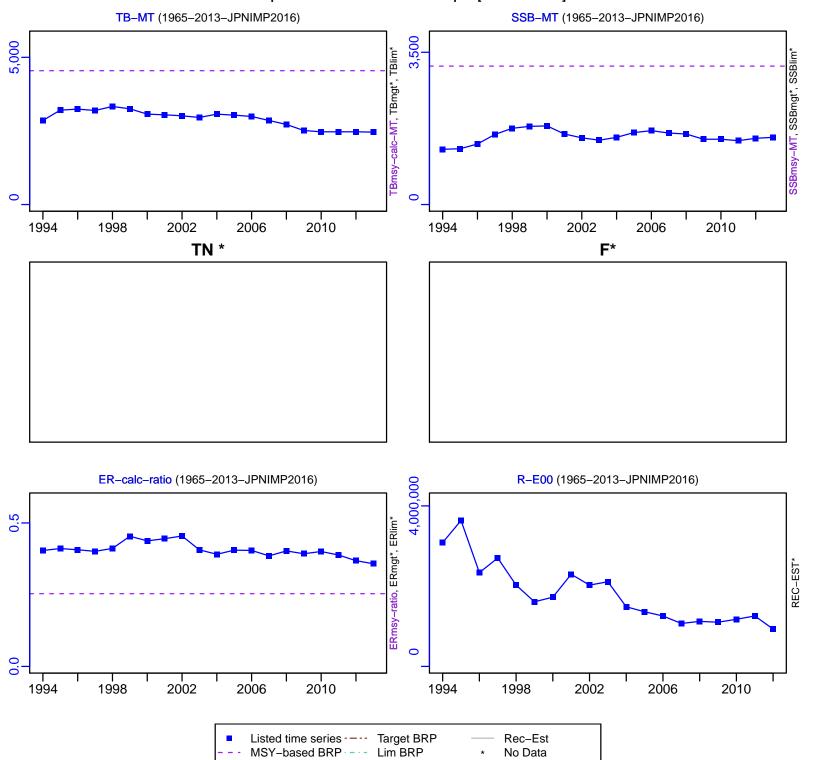
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	4012	
SSBmsy	SSBmsy-MT	2013	2905	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.218	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	875	
M	M-1/yr	2013	0.31	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	992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

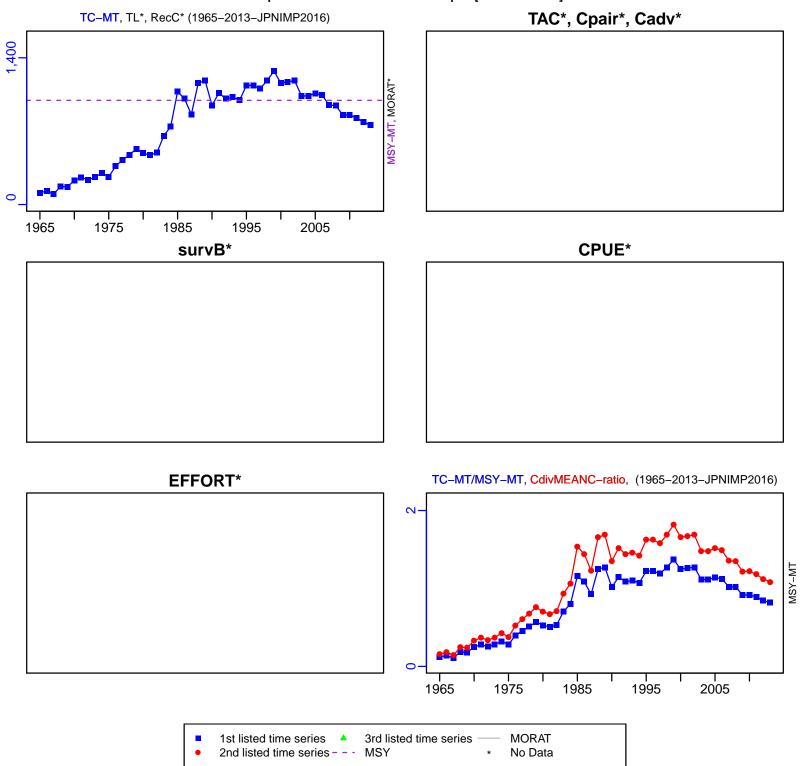
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2170	-	0
SSB	SSB-MT	2013	1410	Both	2
TN	-	-	-	-	-
R	R-E00	2013	897,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.308	-	-
TC	TC-MT	2013	668		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.541		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.485		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

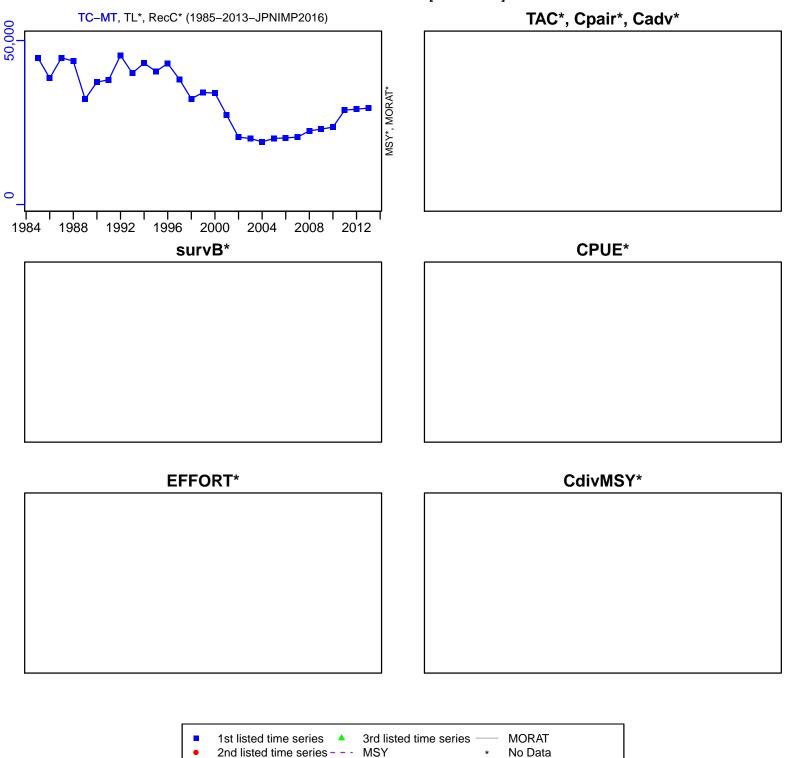
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

### Pacific cod Hokkaido [PCODHOKK]

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

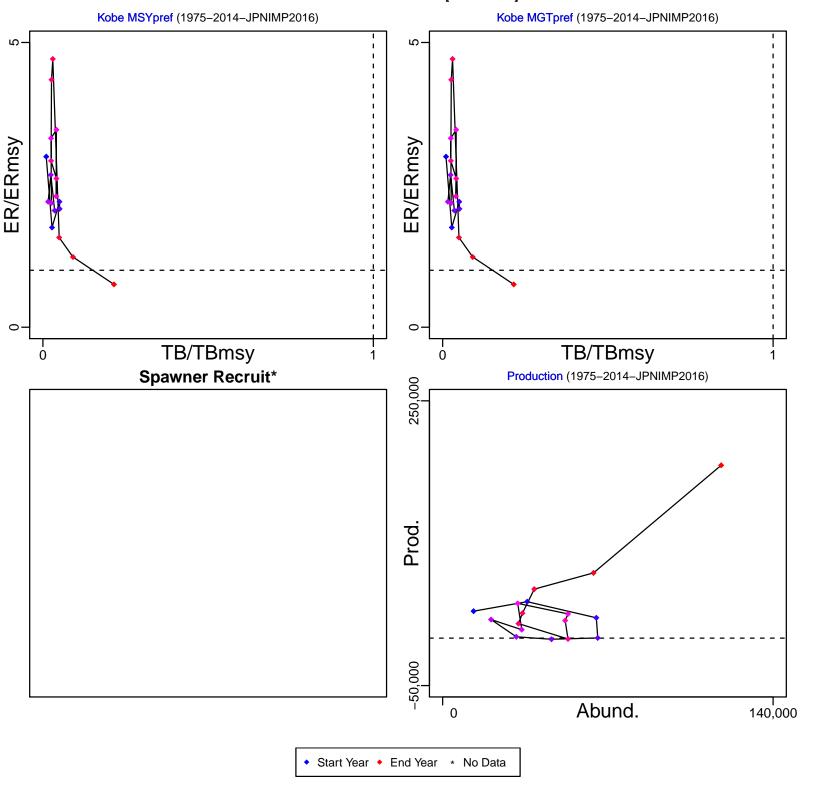
#### Pacific cod Hokkaido [PCODHOKK]

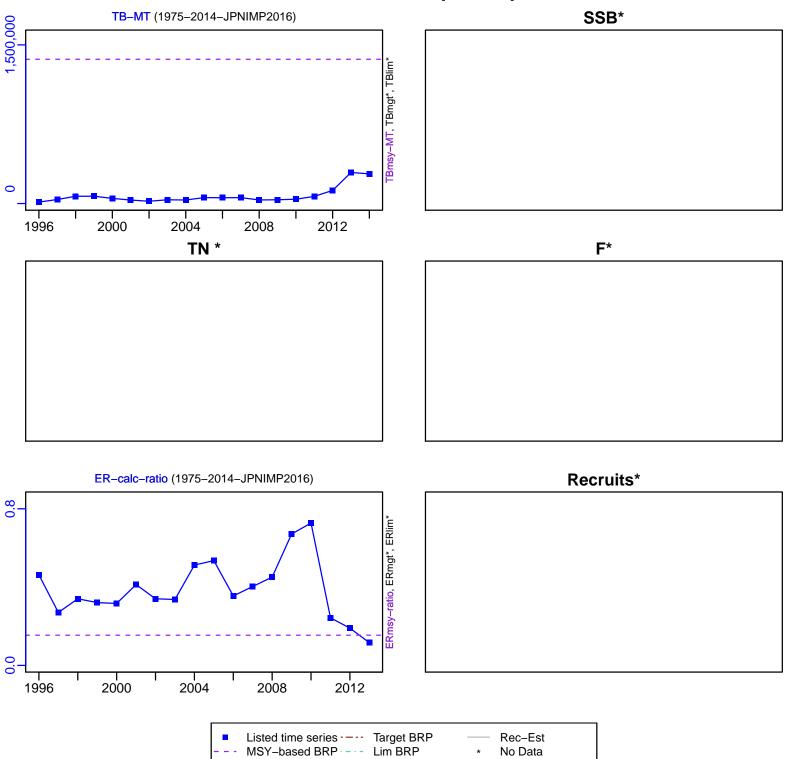


Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID	FAFRFJ-PCODNPAC-1975-2014-JPNIMP2016		
Area North Pacific			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2014		

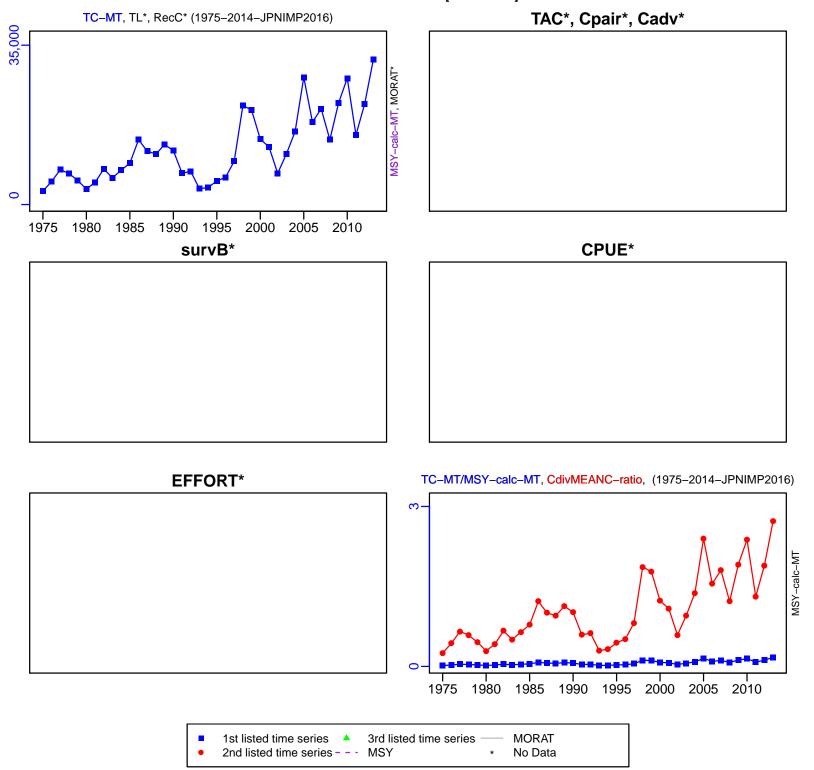
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2014	1,297,226		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2014	0.145		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2014	188,098		
М	M-1/yr	2014	0.313		
TBlim	-	-	-		
SSBlim	-	-	-		
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	-	-	-		
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		

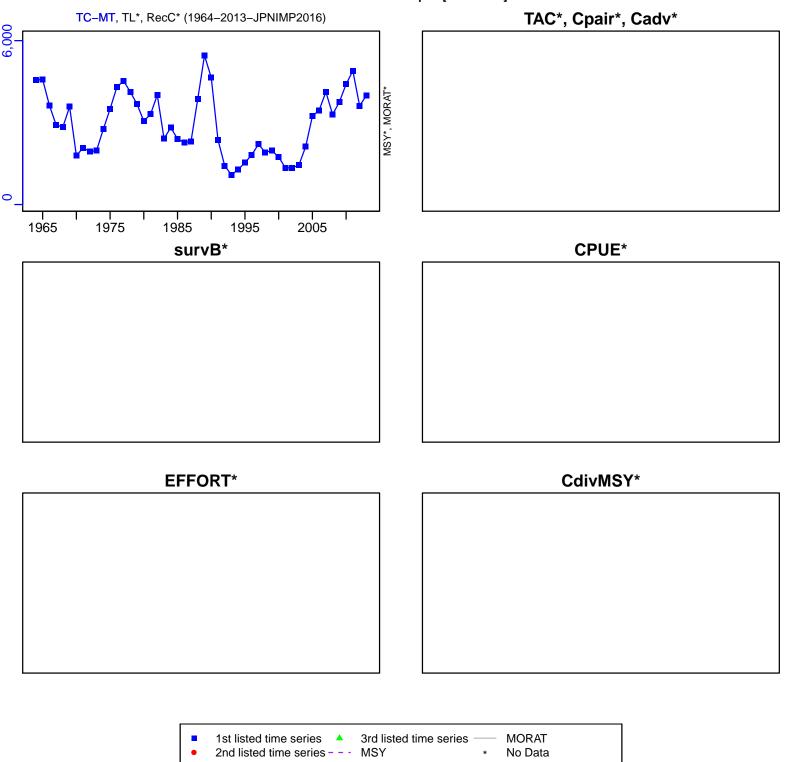
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.313		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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*
	<b>.</b>
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

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

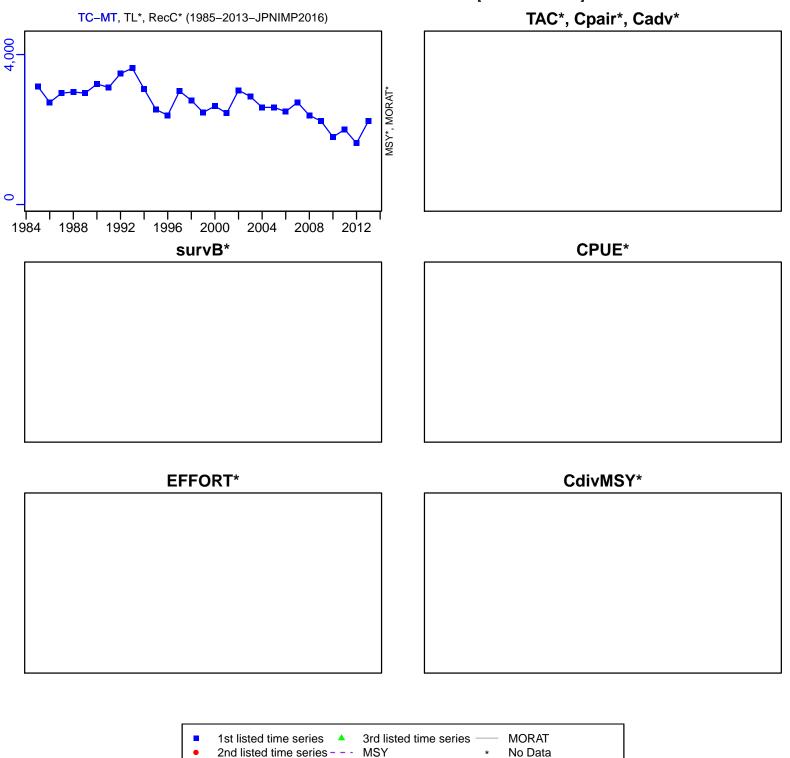
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2013	0.3		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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

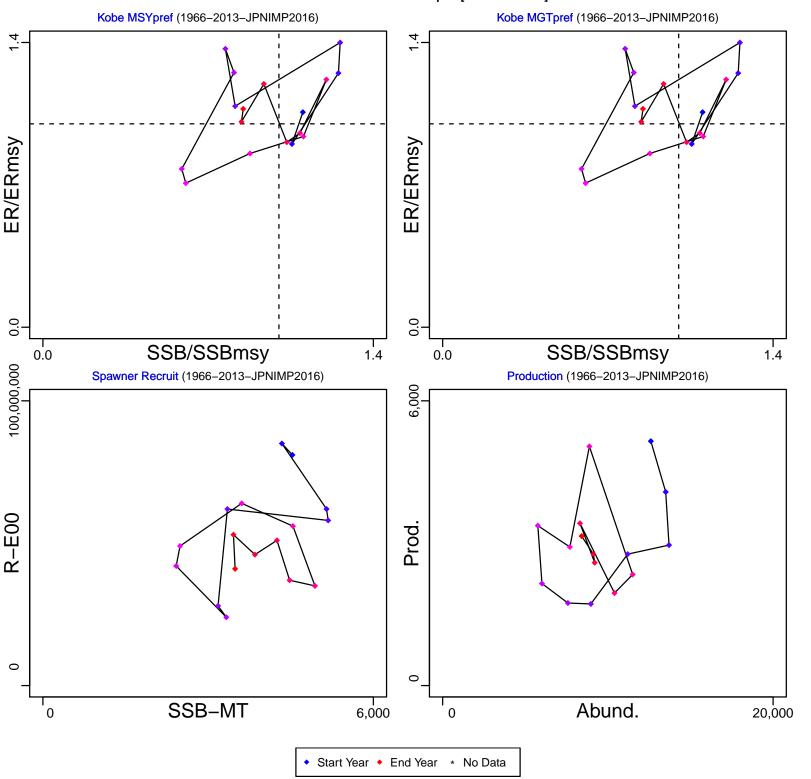
TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

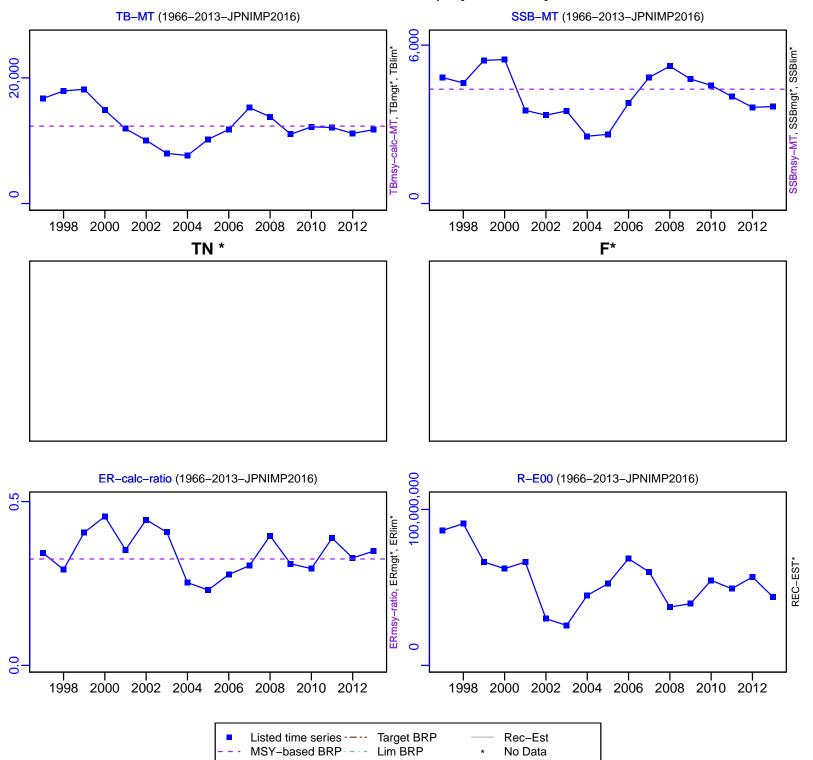


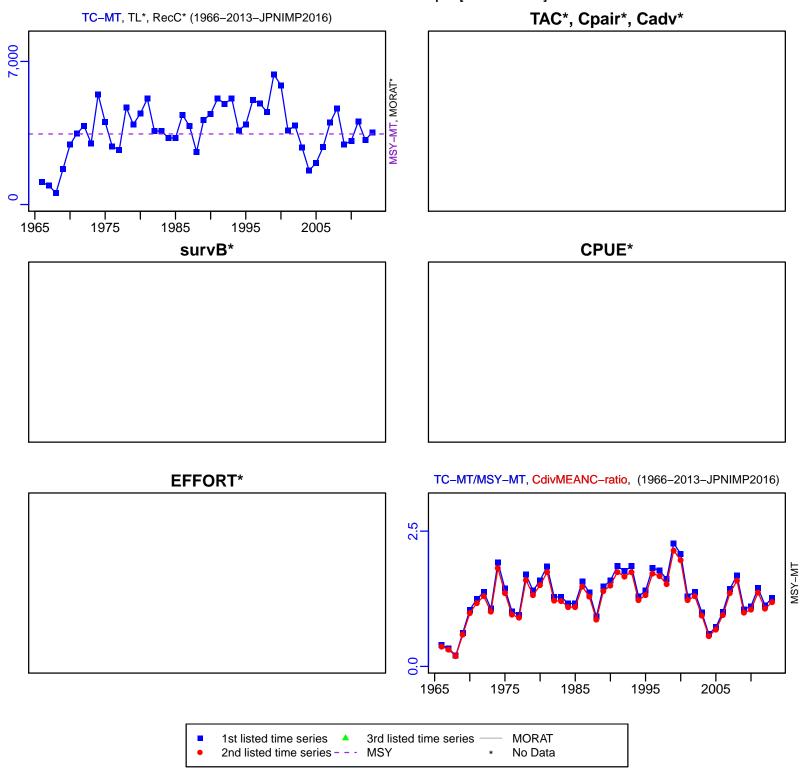
Metadata		
Scientific Name	Cleisthenes herzensteini	
Current Assess ID	FAFRFJ-PHFLOUNSOJ-1966-2013-JPNIMP2016	
Area	Sea of Japan	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

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
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	8850	-	1
SSB	SSB-MT	2013	3490	Both	3
TN	-	-	-	-	-
R	R-E00	2013	$4.1 \times 10^{7}$	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.342	-	-
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	-	-	-		



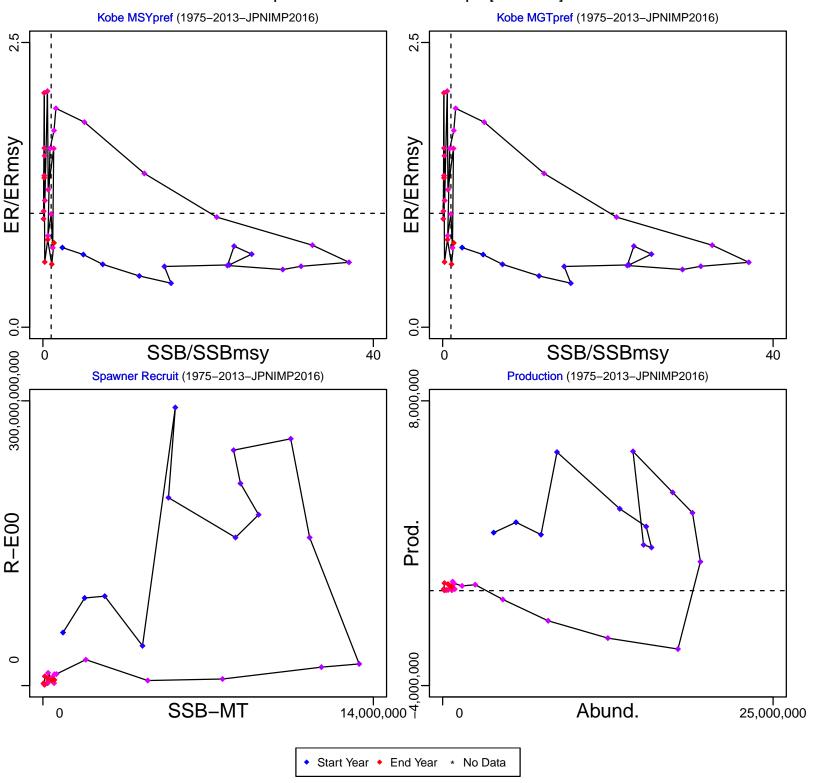


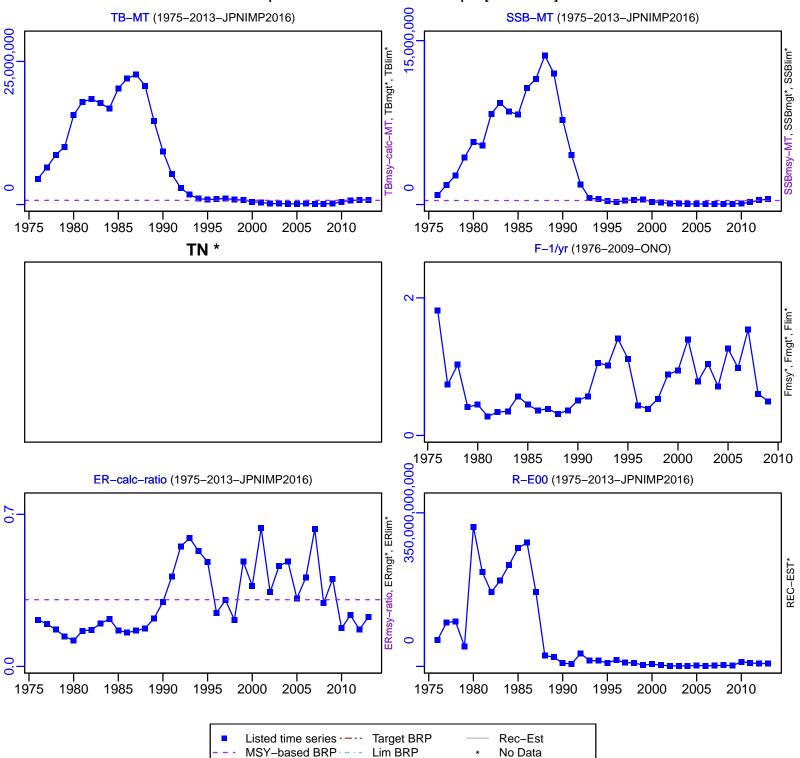


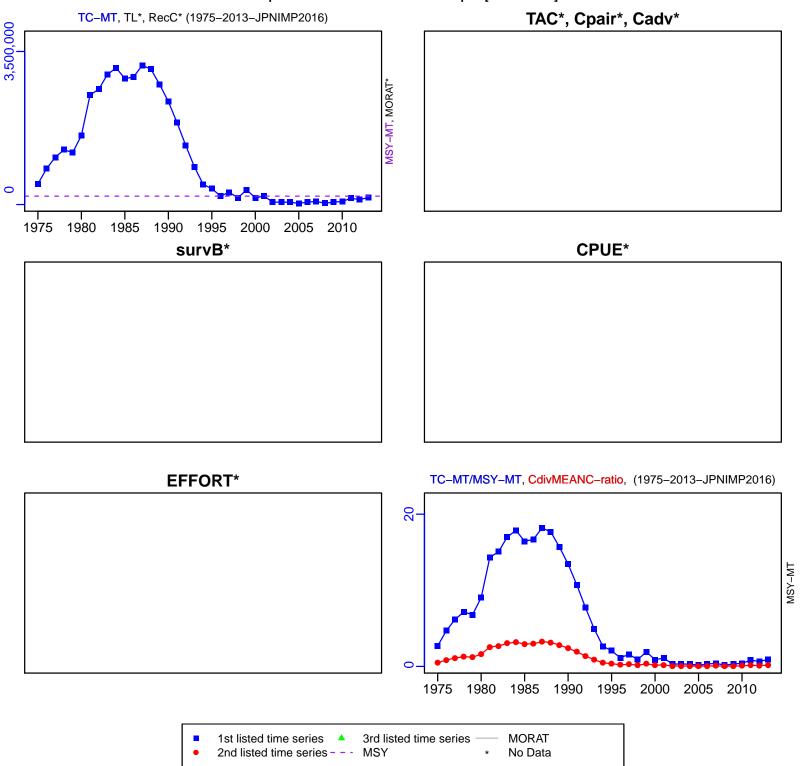
Metadata		
Scientific Name Sardinops melanostictus		
Current Assess ID	FAFRFJ-PILCHPJPN-1975-2013-JPNIMP2016	
Area Pacific Coast of Japan		
Management Authority Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013, 2009	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	628,366	
SSBmsy	SSBmsy-MT	2013	361,622	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.28	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	175,942	
M	M-1/yr	2013	0.4	
TBlim	TBlim-MT	2009	221	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	714,000	-	0
SSB	SSB-MT	2013	484,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.98 \times 10^{9}$	-	0
F	F-1/yr	2009	0.41	Both	0 to 4
ER	ER-calc-ratio	2013	0.207	-	-
TC	TC-MT	2013	148,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	1.136		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.338		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.74		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



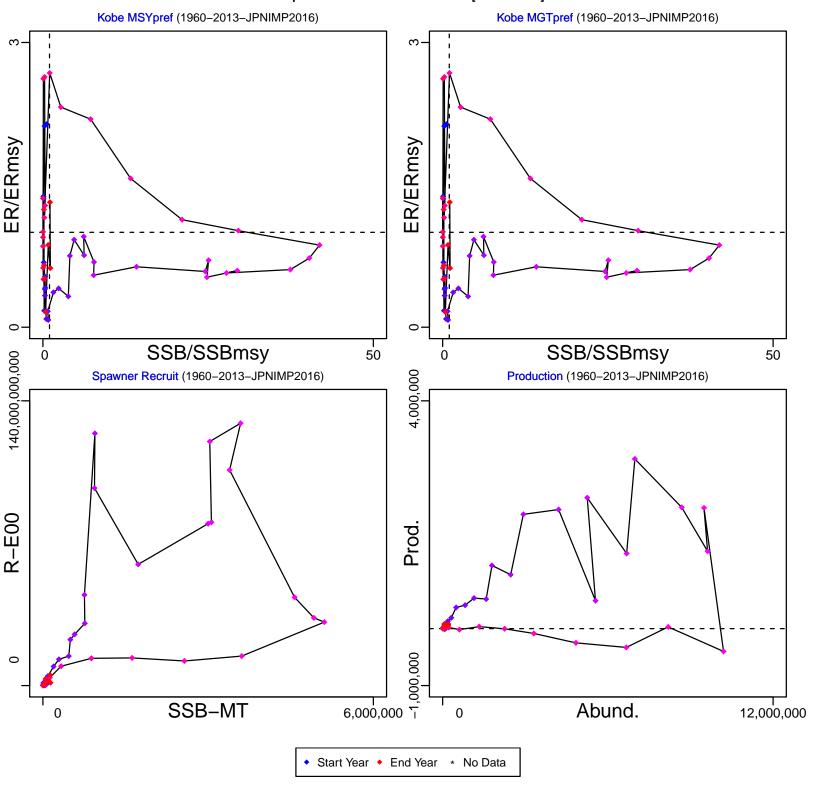


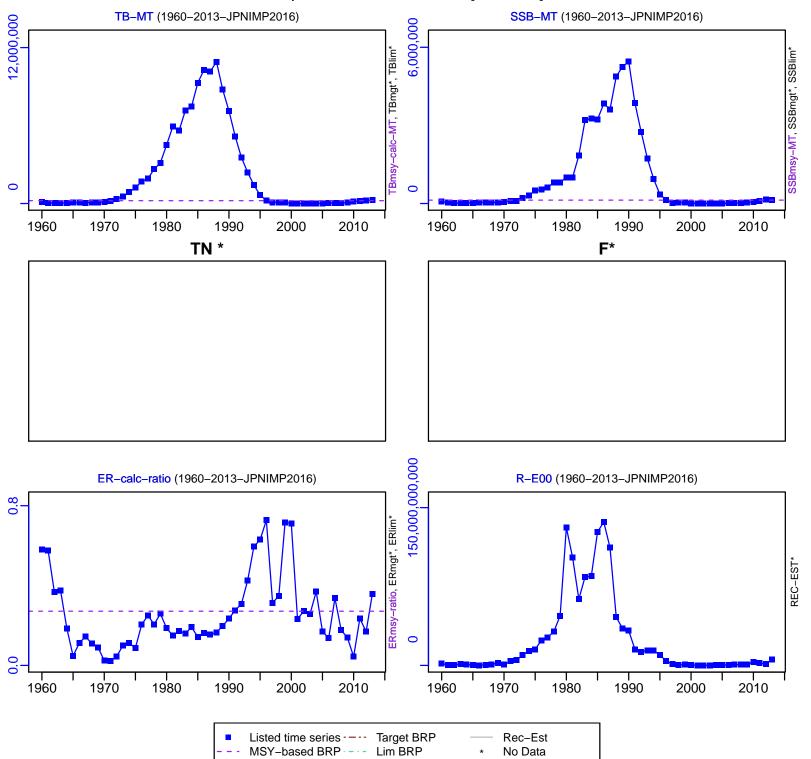


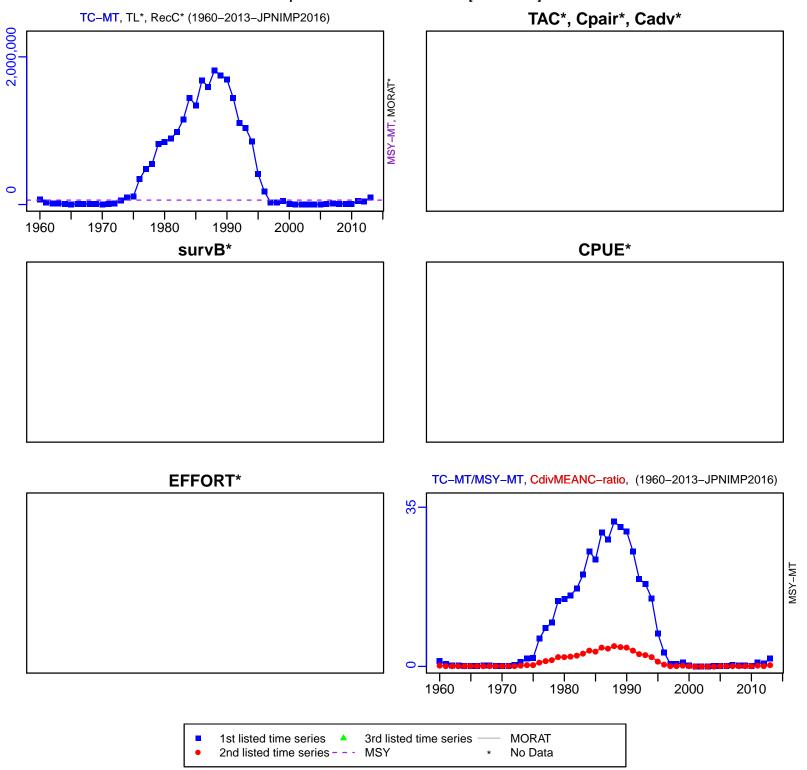
Metadata		
Scientific Name	Sardinops melanostictus	
Current Assess ID	FAFRFJ-PILCHTSST-1960-2013-JPNIMP2016	
Area	Tsushima Strait	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2010, 2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	203,892	
SSBmsy	SSBmsy-MT	2013	122,056	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.26	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	53,012	
М	M-1/yr	2013	0.4	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	10,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	252,000	-	0
SSB	SSB-MT	2013	131,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.17 \times 10^{9}$	-	0.00E+00
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.342	-	-
TC	TC-MT	2013	86,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	1.236		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.073		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.317		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







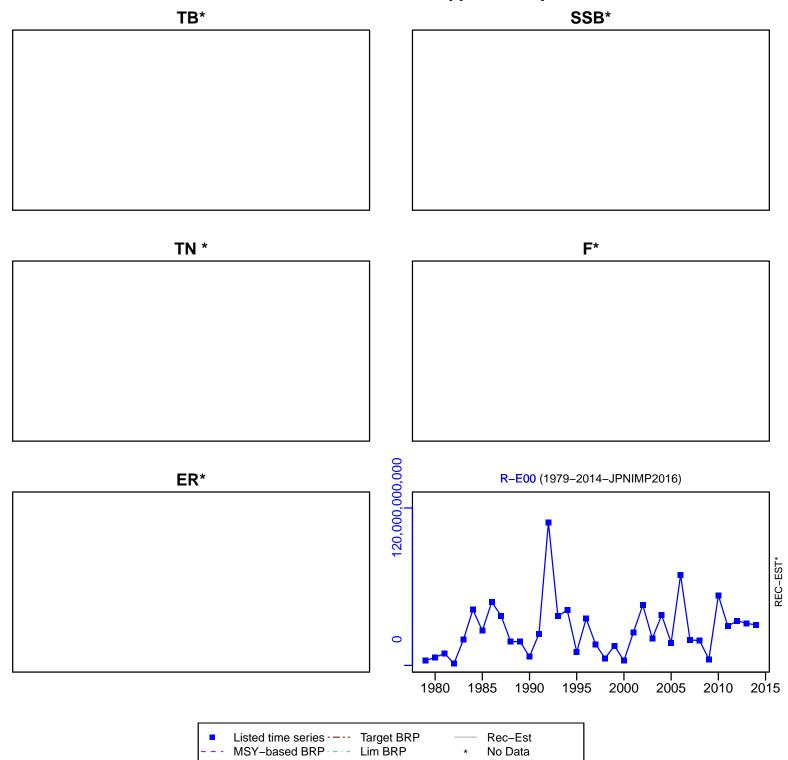
Metadata	
Scientific Name	Ammodytes personatus
Current Assess ID	FAFRFJ-PSANDLIMKB-1979-2014-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

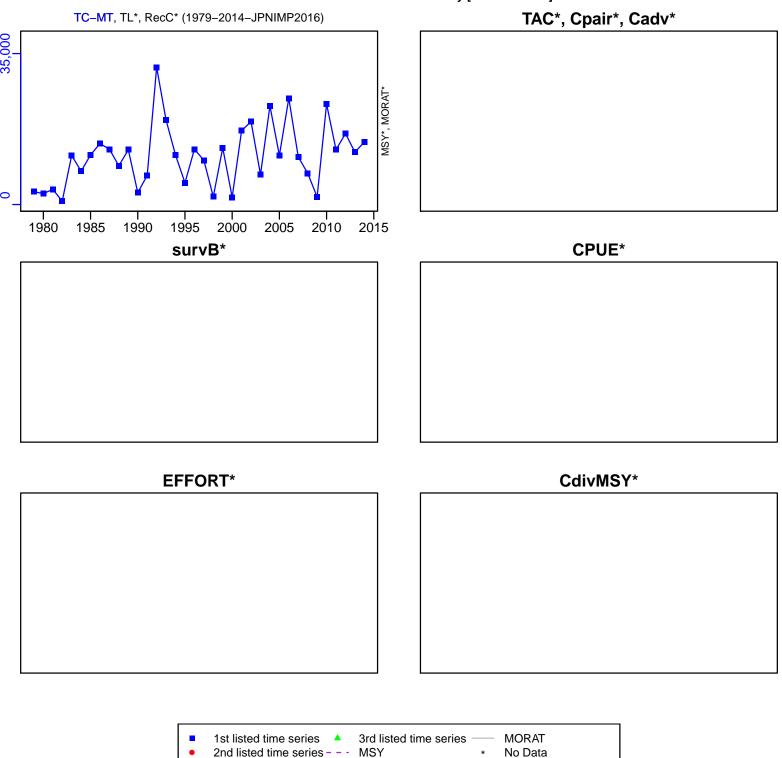
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	nt Year   Curr Value		Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	R-E00	2014	$2.92 \times 10^{10}$	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2014	13,100			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data





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

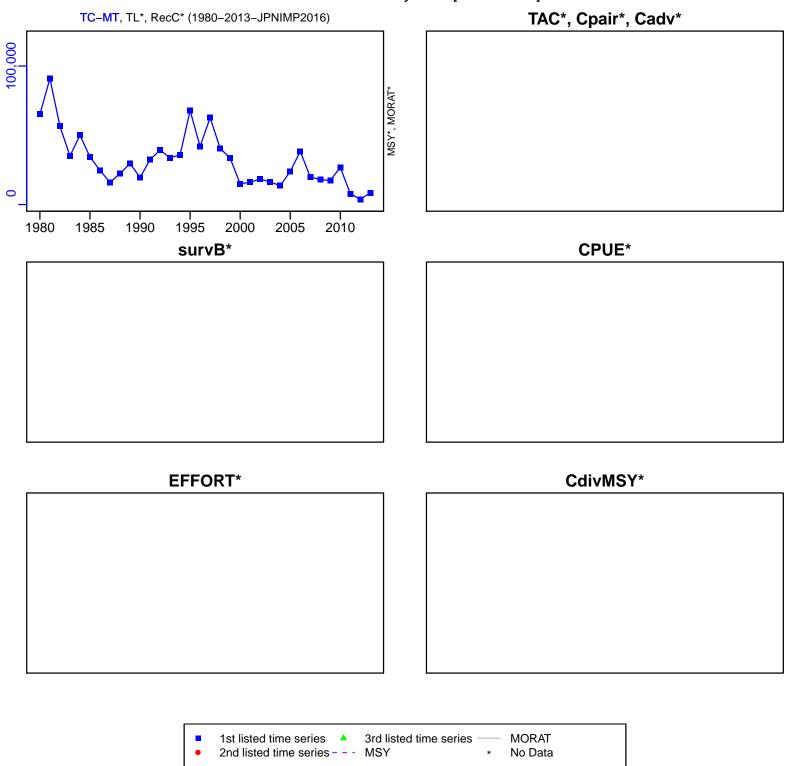
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Year   Curr Value		Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2013	7020			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

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

◆ Start Year ◆ End Year \* No Data

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



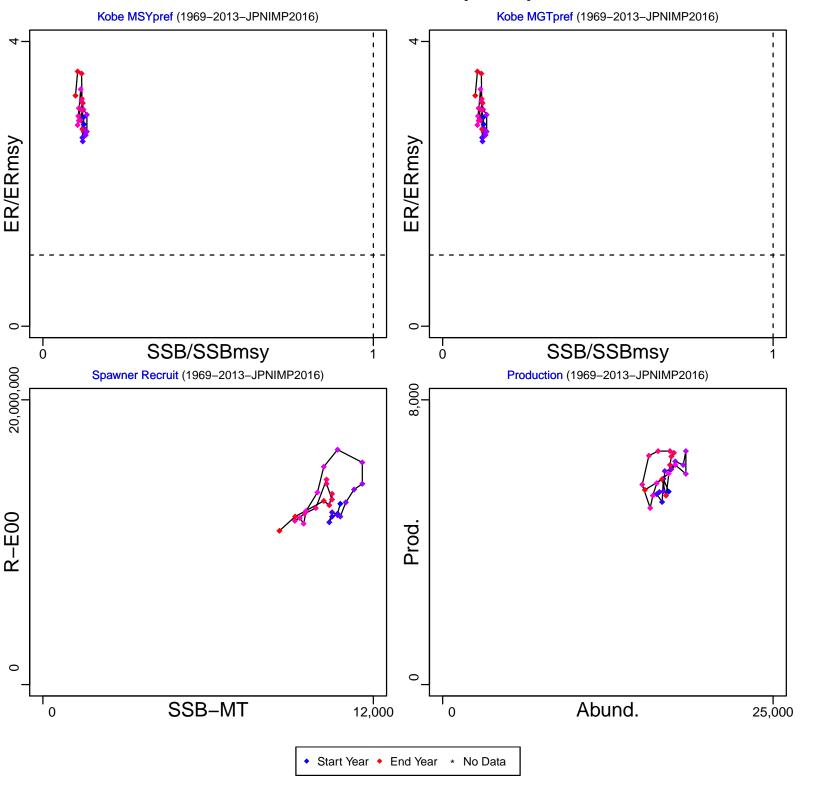
# Red seabream East China Sea [RBRMECS]

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	

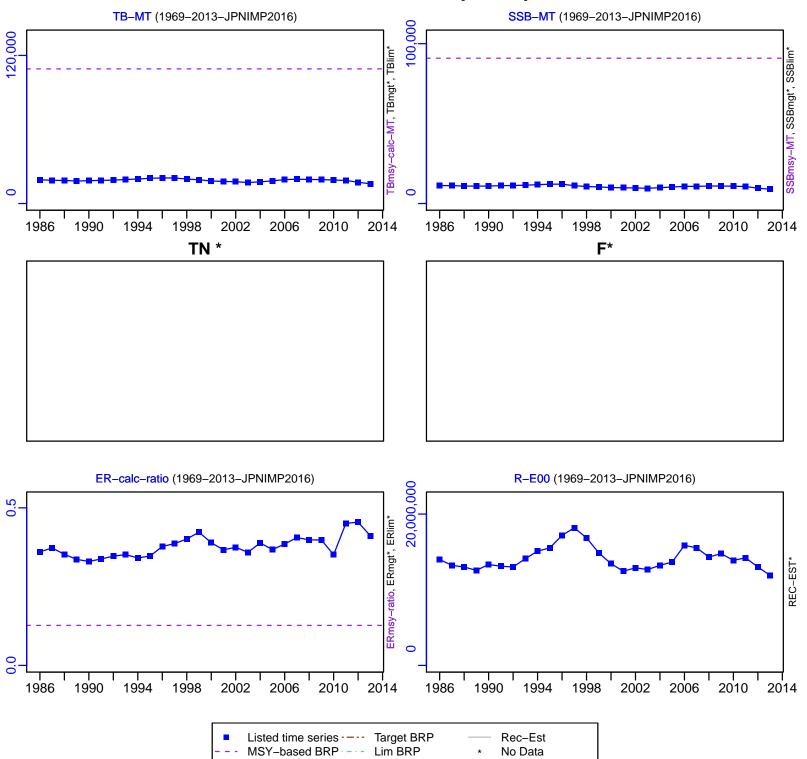
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2013	96,880		
SSBmsy	SSBmsy-MT	2013	87,132		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.12		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2013	11,626		
M	M-1/yr	2013	0.125		
TBlim	-	-	-		
SSBlim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

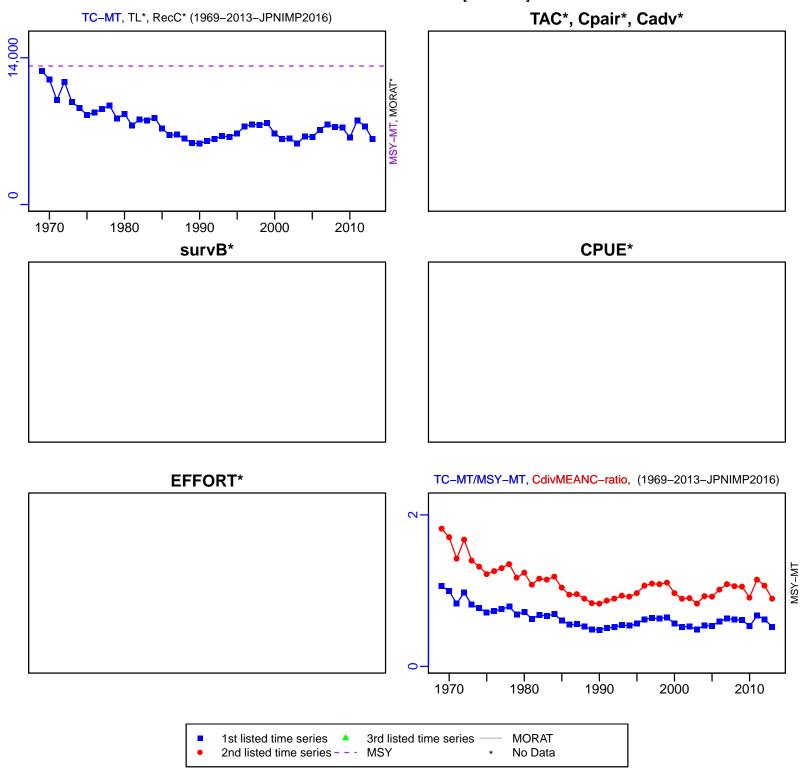
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2013	14,200	-	1	
SSB	SSB-MT	2013	8590	Both	3	
TN	-	-	-	-	-	
R	R-E00	2013	10,800,000	-	1	
F	-	-	-	-	-	
ER	ER-calc-ratio	2013	0.389	-	-	
TC	TC-MT	2013	5520			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.147			
SSB/SSBmsy	SSB-MT/SSBmsy-MT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





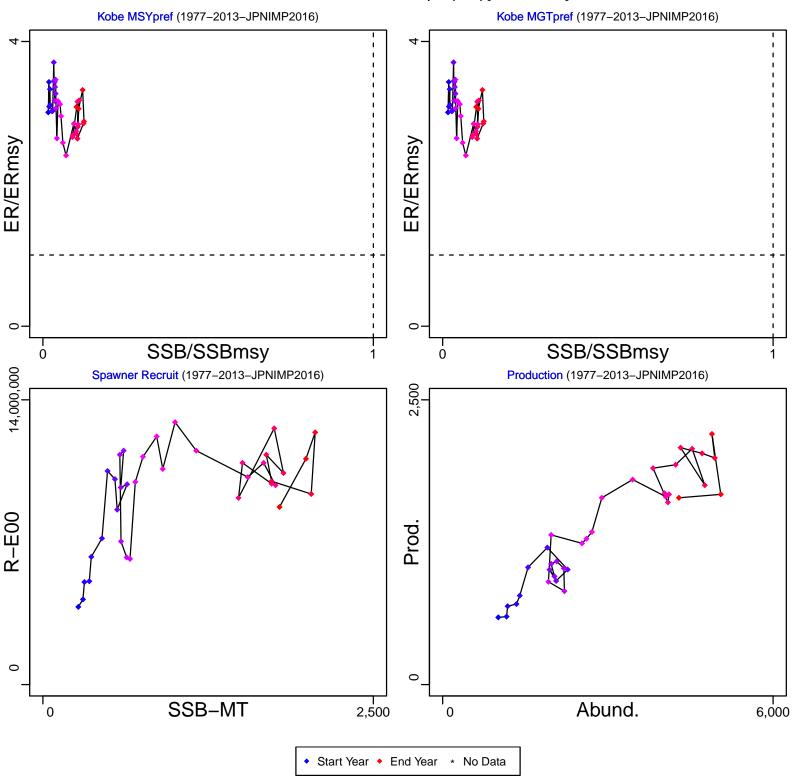
# Red seabream Inland Sea of Japan (East) [RBRMSETOE]

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	

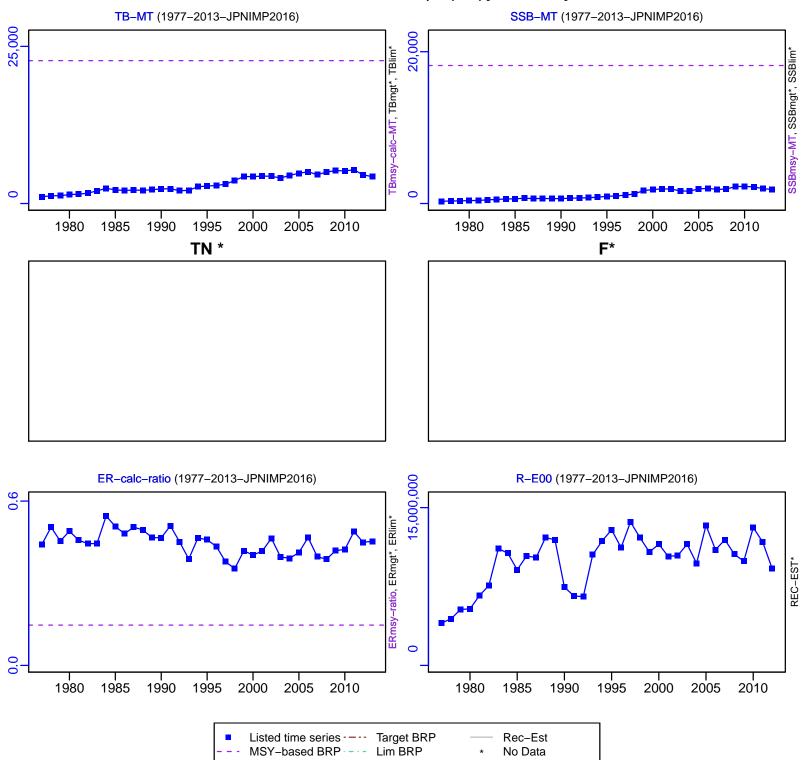
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	21,417
SSBmsy	SSBmsy-MT	2013	16,552
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.145
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	3106
M	M-1/yr	2013	0.24
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	304
Flim	-	-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

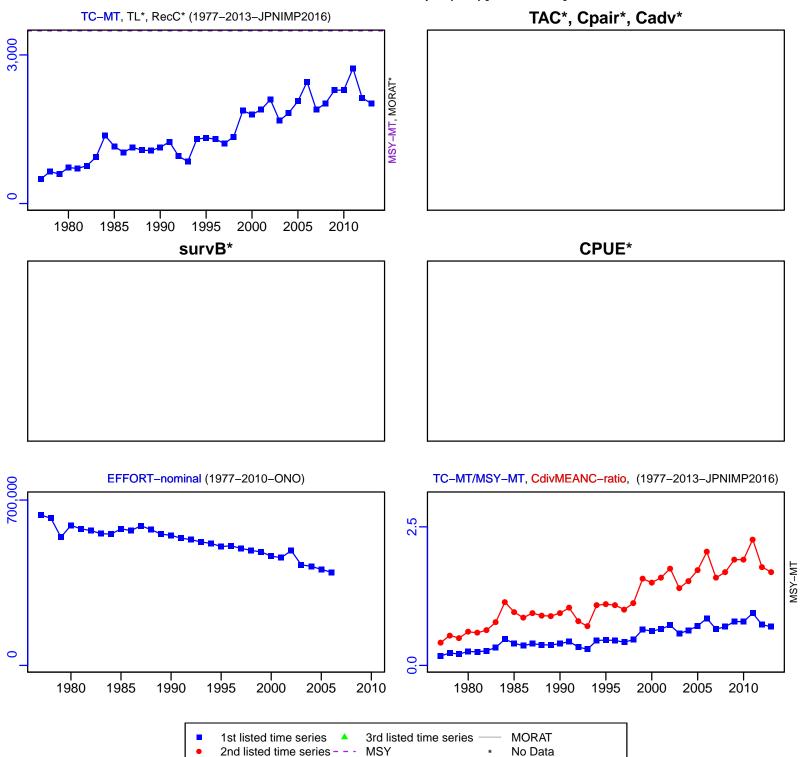
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	4030	-	0
SSB	SSB-MT	2013	1680	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,730,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.447	-	-
TC	TC-MT	2013	1800		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.188		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.101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





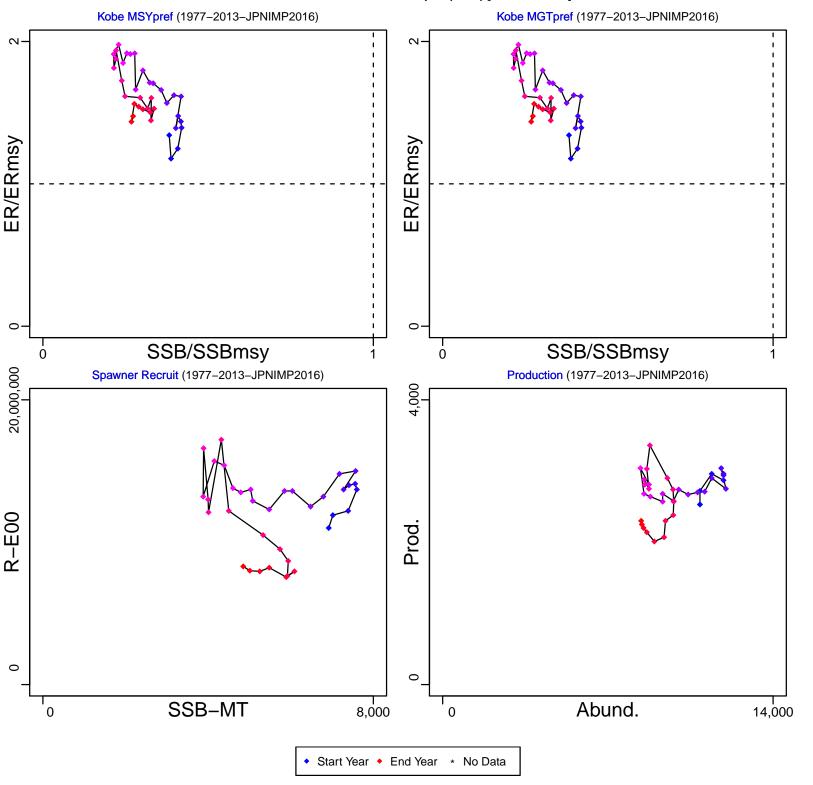
# Red seabream Inland Sea of Japan (West) [RBRMSETOW]

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	

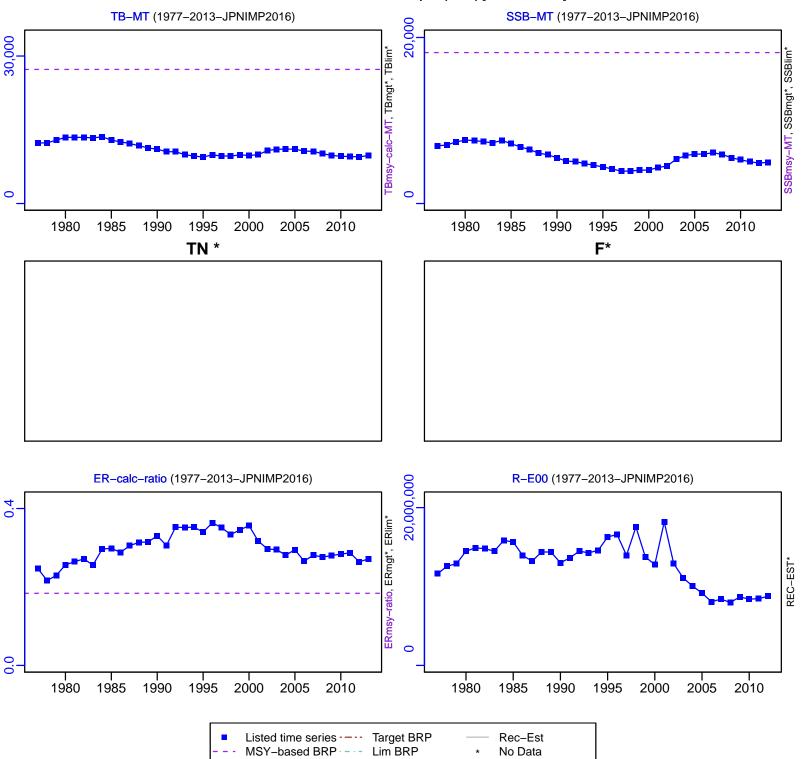
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	24,122	
SSBmsy	SSBmsy-MT	2013	18,103	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.173	
TBmgt		-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	4173	
M	M-1/yr	2013	0.24	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010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

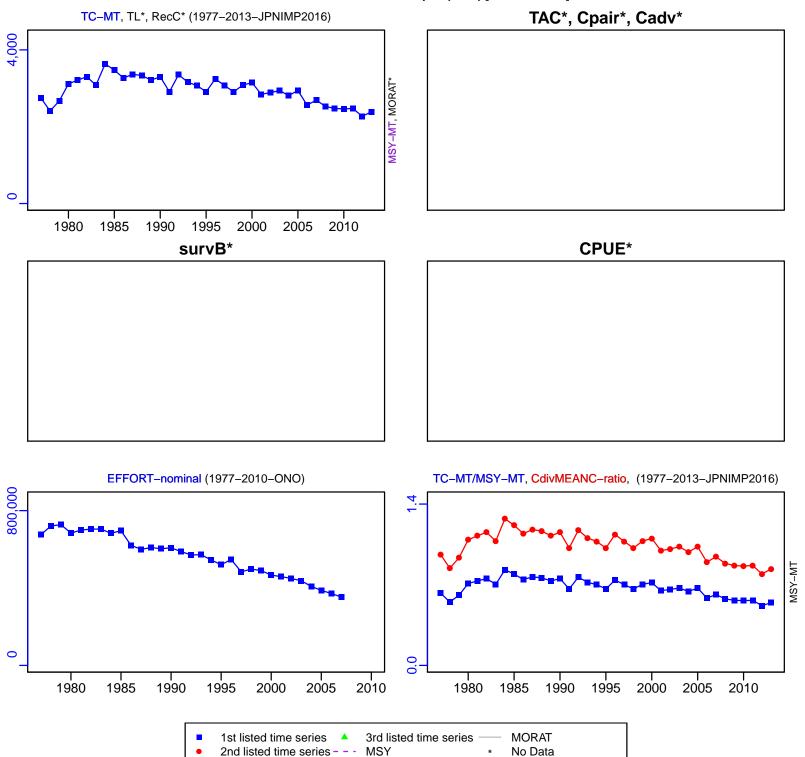
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	8620	-	0
SSB	SSB-MT	2013	4940	Both	3
TN	-	-	-	-	-
R	R-E00	2013	8,300,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.255	-	-
TC	TC-MT	2013	2200		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.357		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.273		
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-1985-2013-JPNIMP2016	
Area	Pacific Ocean	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

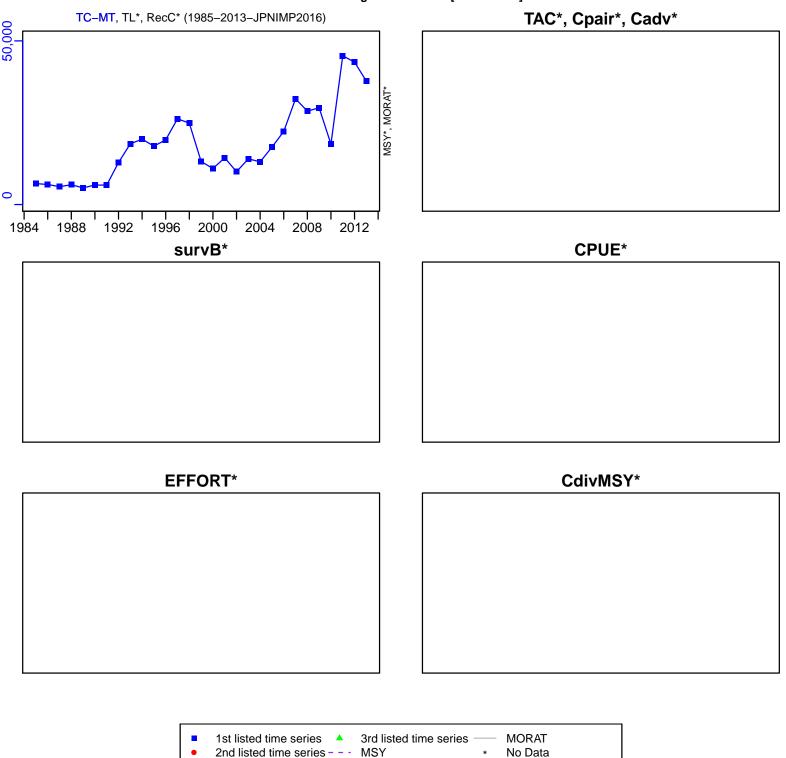
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2013	0.7	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

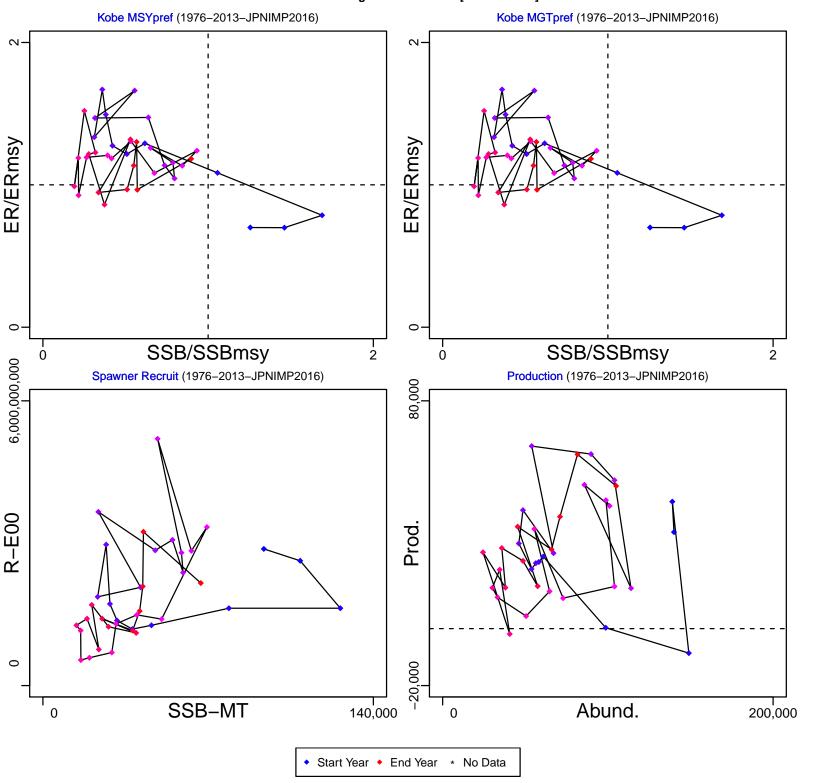
TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

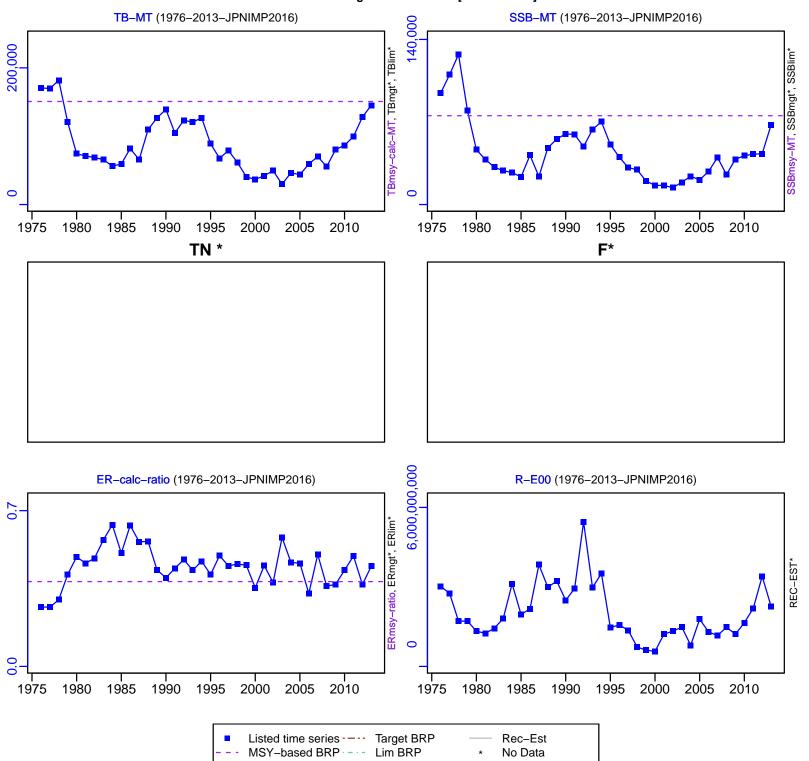


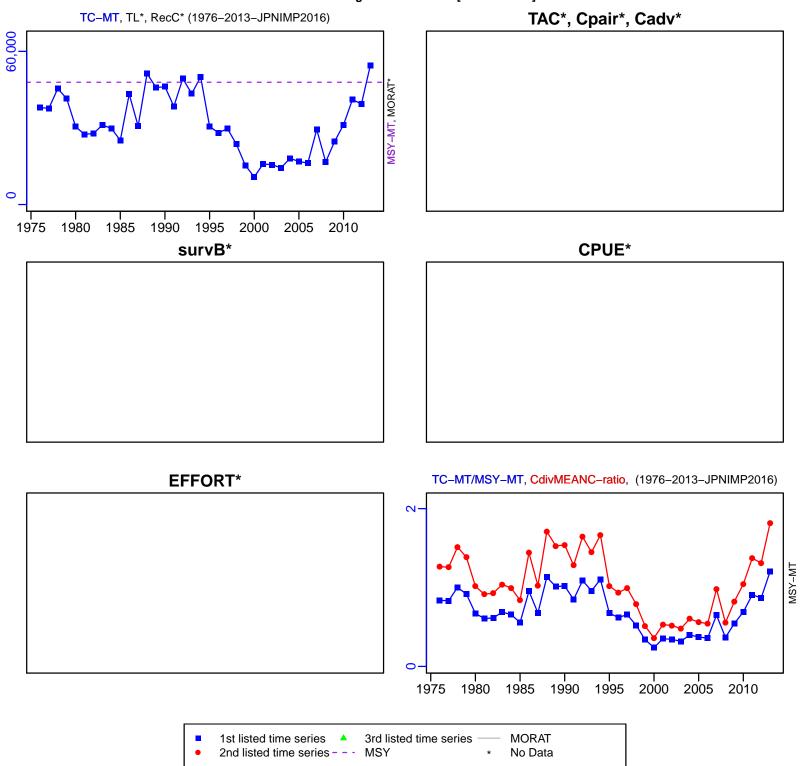
Metadata		
Scientific Name	Etrumeus teres	
Current Assess ID	FAFRFJ-RHERRTSST-1976-2013-JPNIMP2016	
Area	Tsushima Strait	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	123,572	
SSBmsy	SSBmsy-MT	2013	74,564	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.356	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	43,992	
M	M-1/yr	2013	0.7	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2013	119,000	-	0	
SSB	SSB-MT	2013	66,900	Both	1	
TN	-	-	-	-	-	
R	R-E00	2013	$2.16 \times 10^{9}$	-	0	
F	-	-	-	-	-	
ER	ER-calc-ratio	2013	0.421	-	-	
TC	TC-MT	2013	50,100			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.963			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.897			
F/Fmsy	-	-	-			
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.183			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			







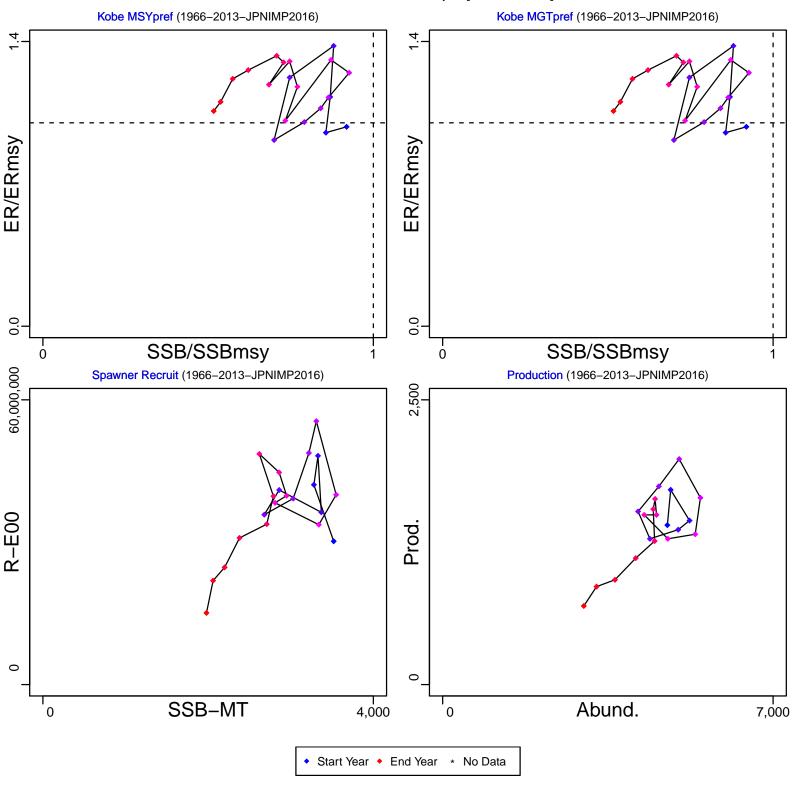
# Round nose flounder Sea of Japan [RSFLOUNSOJ]

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		

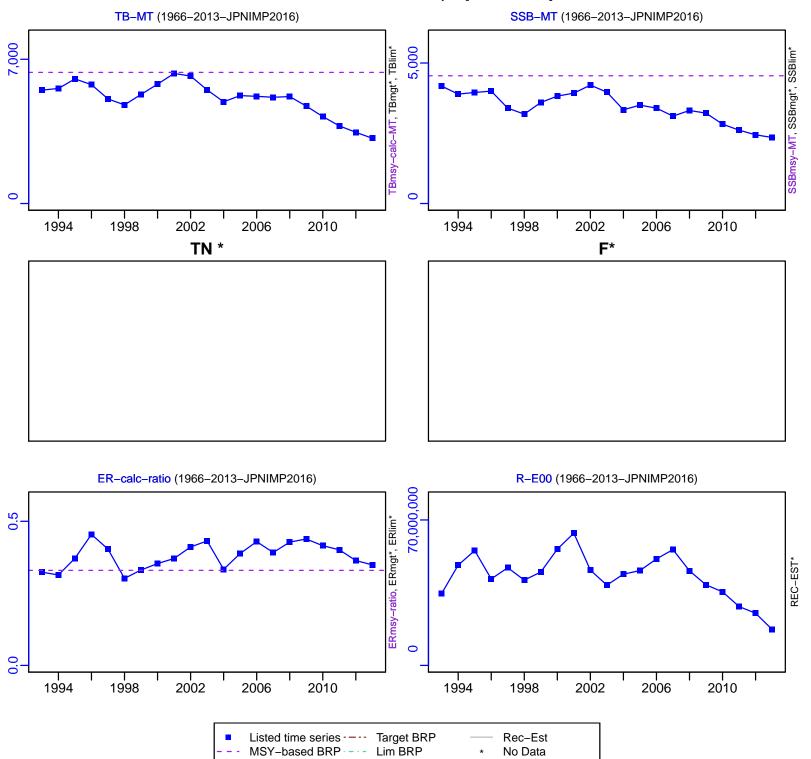
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	5504	
SSBmsy	SSBmsy-MT	2013	3830	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2013	0.285	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	1569	
М	M-1/yr	2013	0.35	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-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

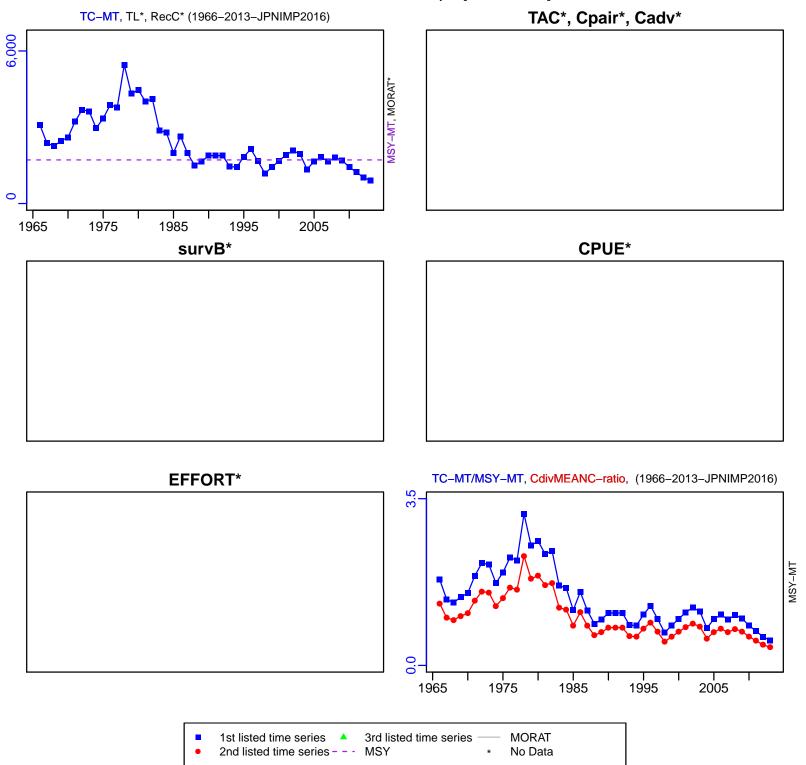
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2013	2740	-	1	
SSB	SSB-MT	2013	1980	Both	3	
TN	-	-	-	-	-	
R	R-E00	2013	15,100,000	-	1	
F	-	-	-	-	-	
ER	ER-calc-ratio	2013	0.301	-	-	
TC	TC-MT	2013	826			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.498			
SSB/SSBmsy	SSB-MT/SSBmsy-MT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

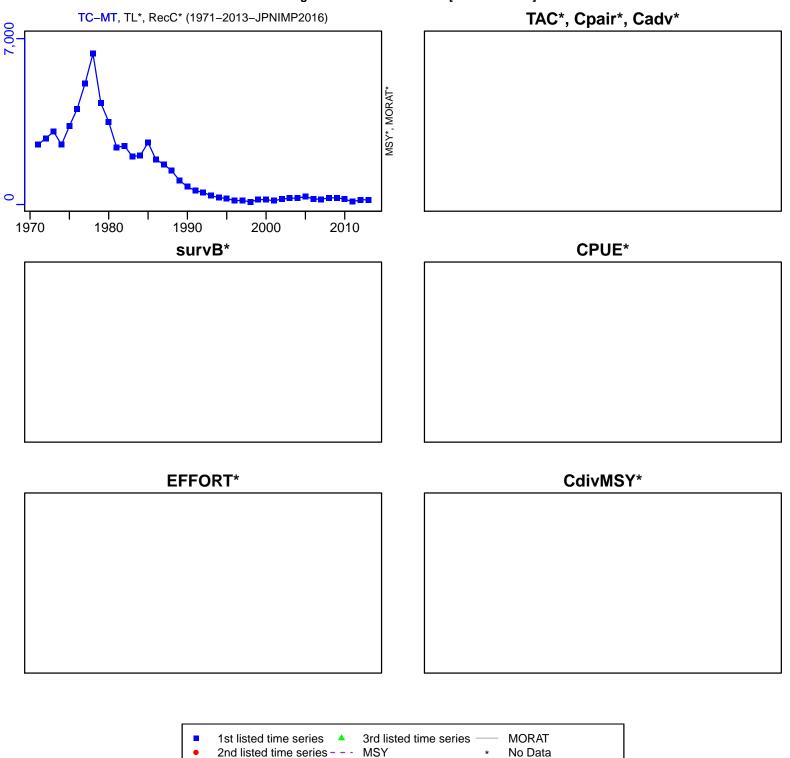
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

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

◆ Start Year ◆ End Year \* No Data

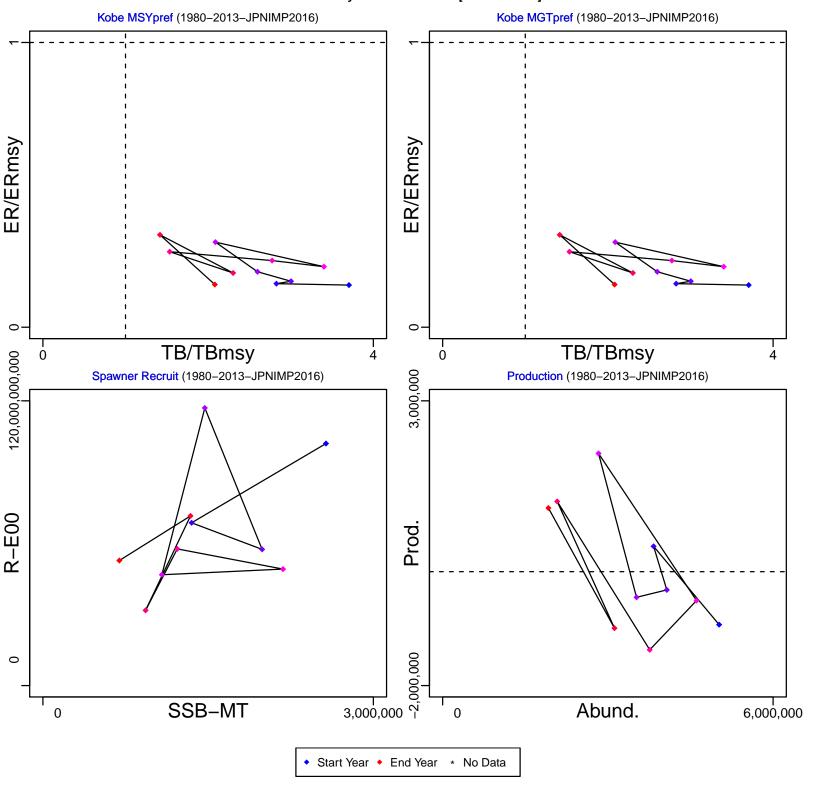
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

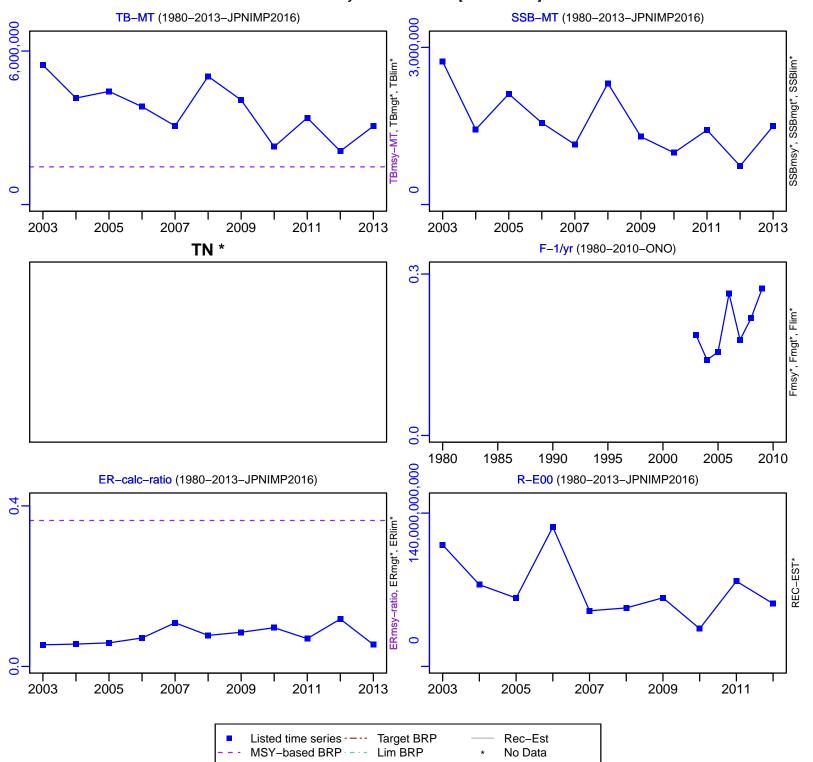


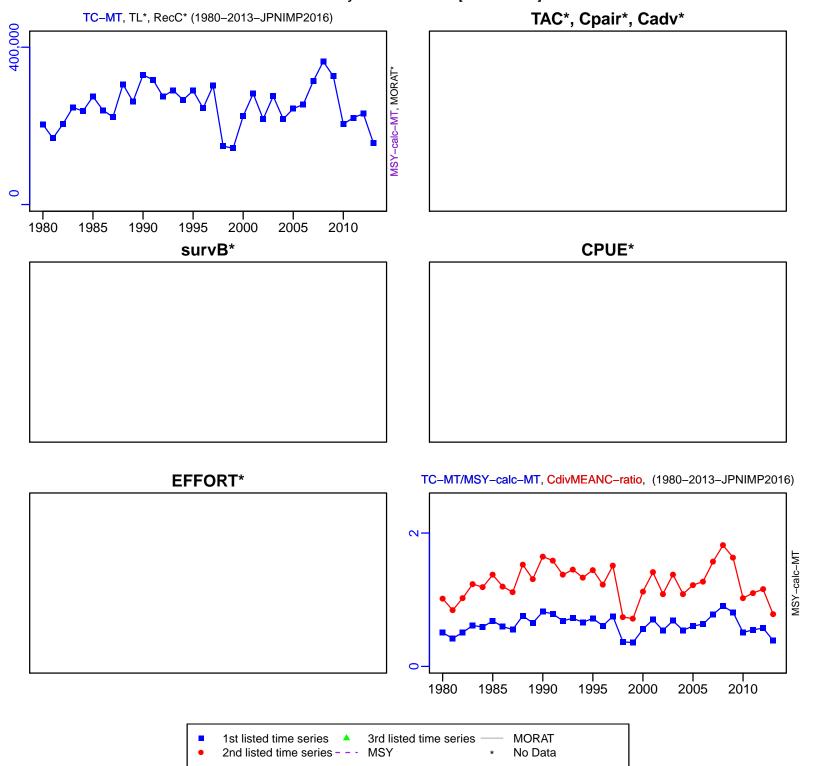
Metadata			
Scientific Name	Cololabis saira		
Current Assess ID	FAFRFJ-SAURNWPAC-1980-2013-JPNIMP2016		
Area Northwest Pacific			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2010, 2013		

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	2,820,000	-	0
SSB	SSB-MT	2013	1,410,000	Both	1
TN	-	-	-	-	-
R	R-E00	2013	$5.27 \times 10^{10}$	-	0
F	F-1/yr	2010	0.264	-	0 to 1
ER	ER-calc-ratio	2013	0.052	-	-
TC	TC-MT	2013	148,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	2.081		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.15		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata		
Scientific Name	Oratosquilla oratoria	
Current Assess ID	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	

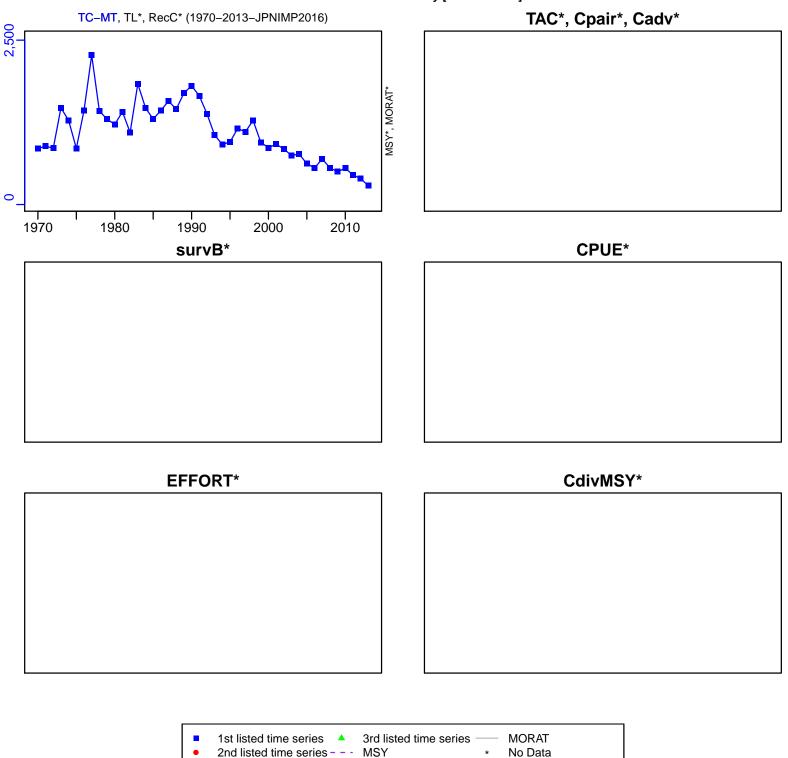
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	282		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
	<b>—</b> •
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

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



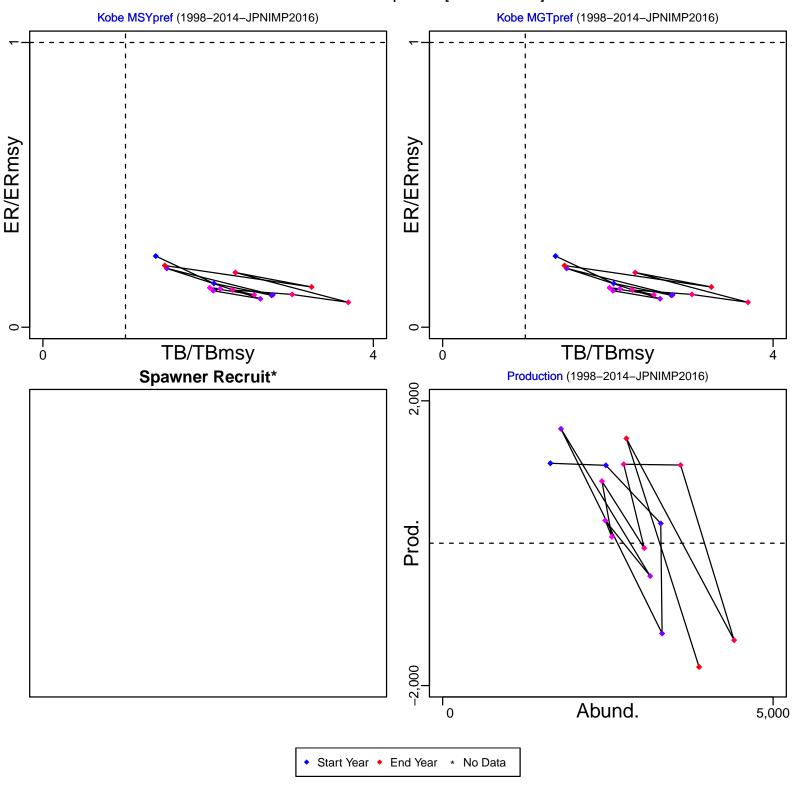
# Snow crab Sea of Japan East [SNOWCRABESJ]

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	

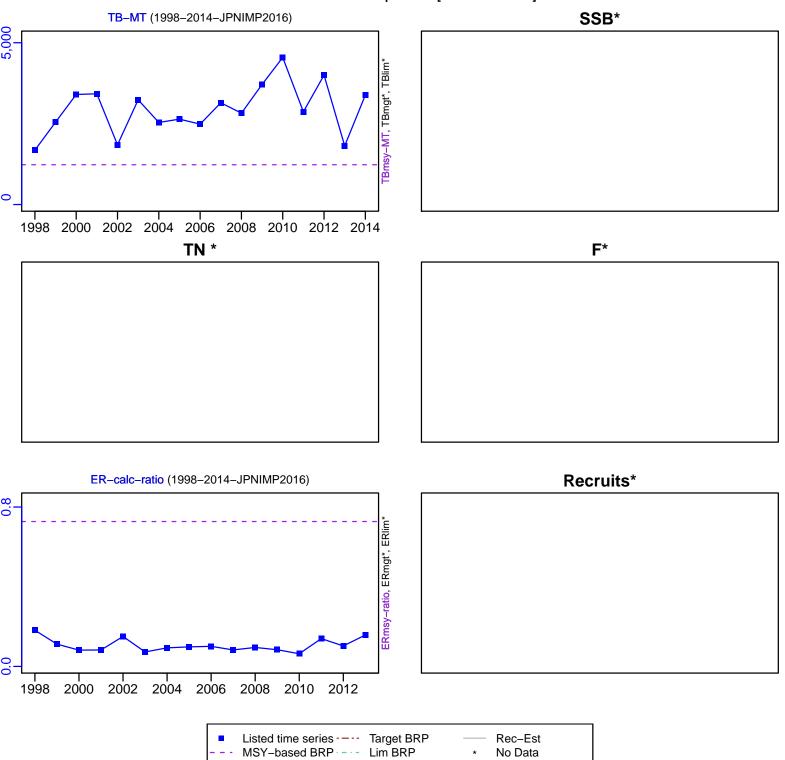
Reference Points					
Type	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2014	1193		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2014	0.695		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2014	829		
М	M-1/yr	2014	0.35		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
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	-	-	-		

### Snow crab Sea of Japan East [SNOWCRABESJ]

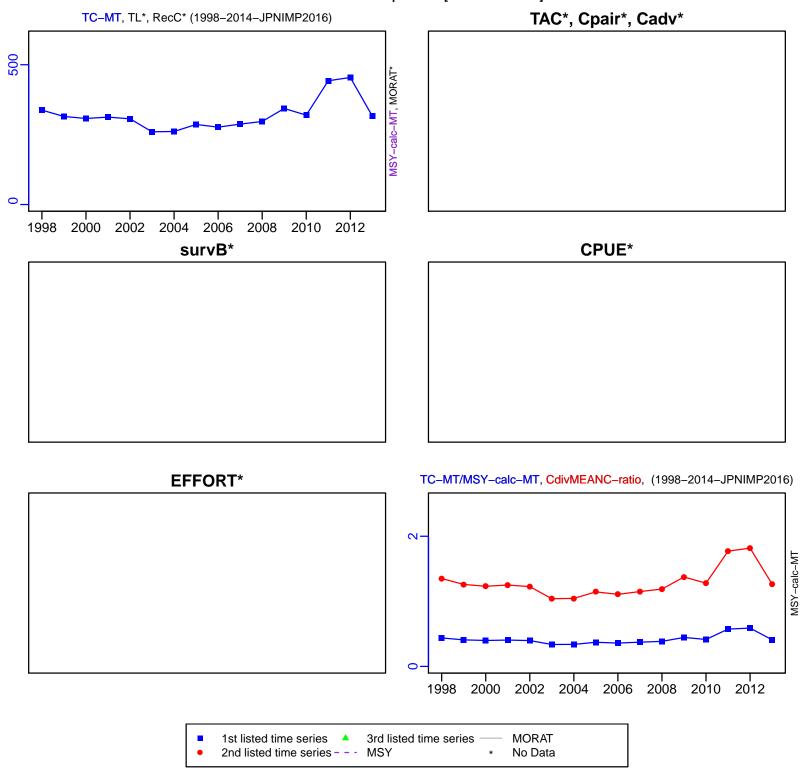


#### Snow crab Sea of Japan East [SNOWCRABESJ]



No Data

### Snow crab Sea of Japan East [SNOWCRABESJ]



	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

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

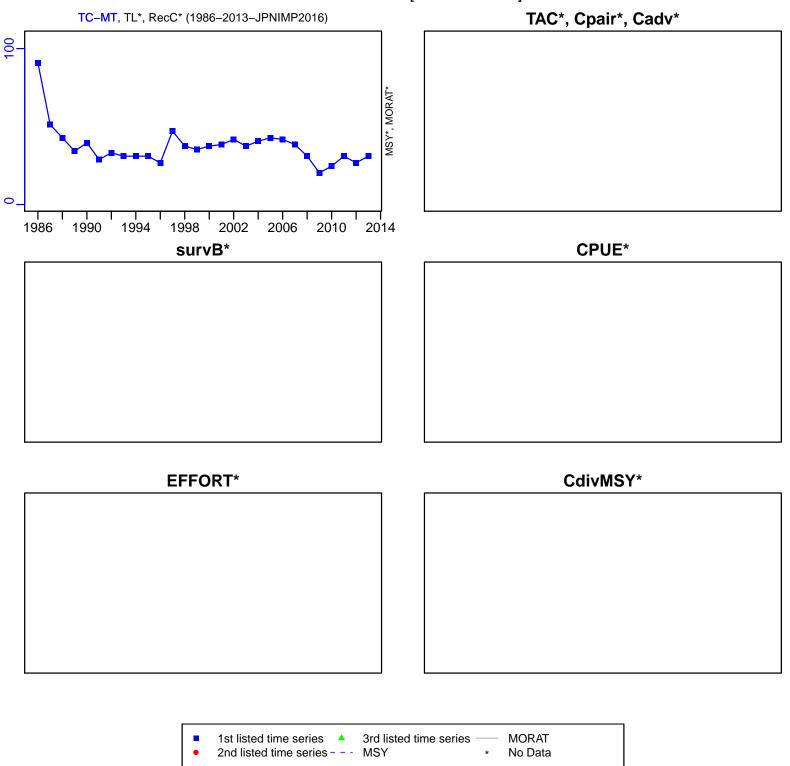
		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	29		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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 m BRP * No Data

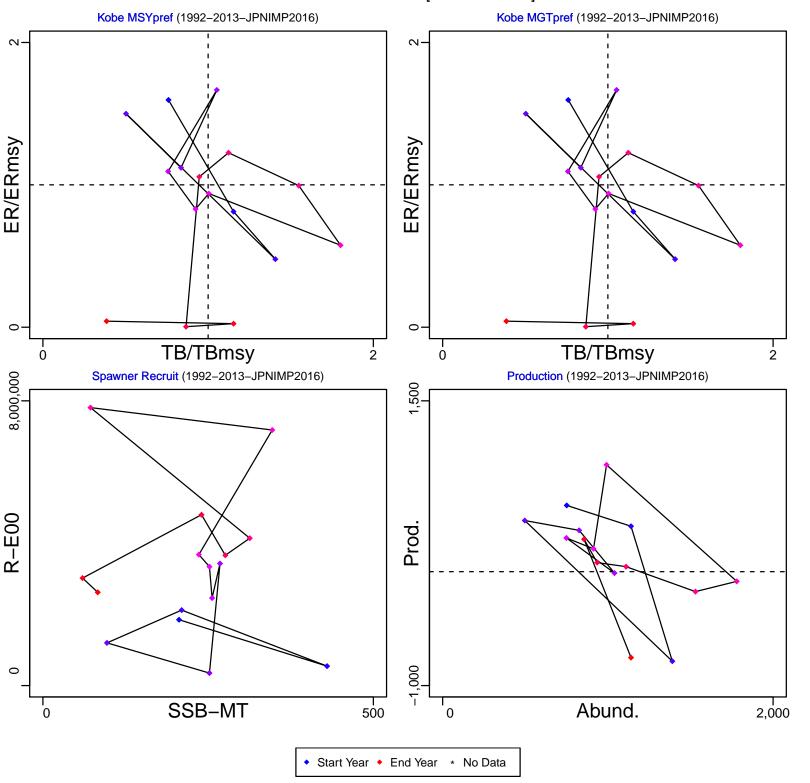
No Data

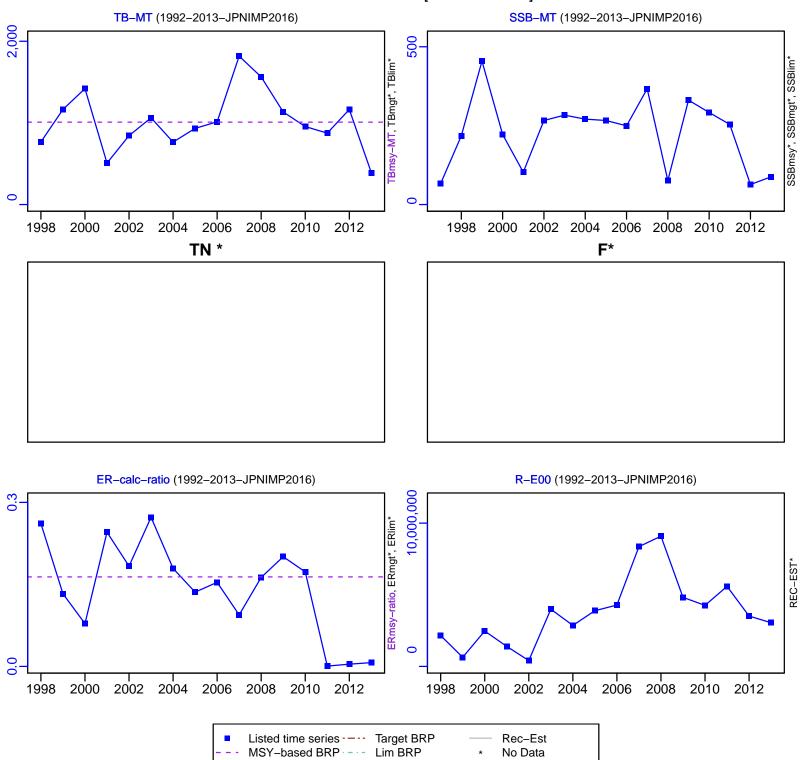


	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	FAFRFJ-SNOWCRABNPAC-1992-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

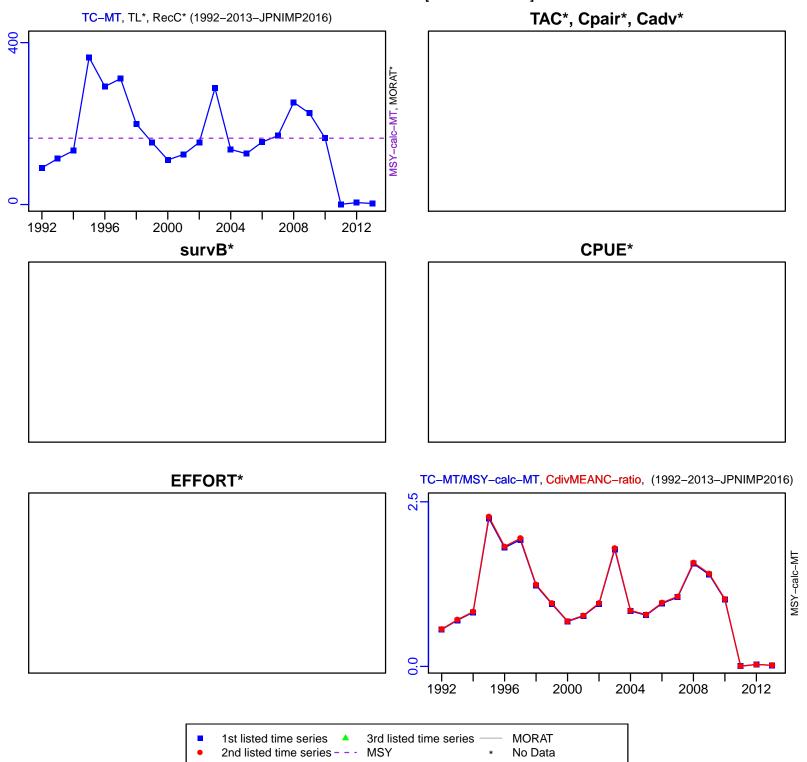
	Reference	Points	
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	988
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.161
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	159
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	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

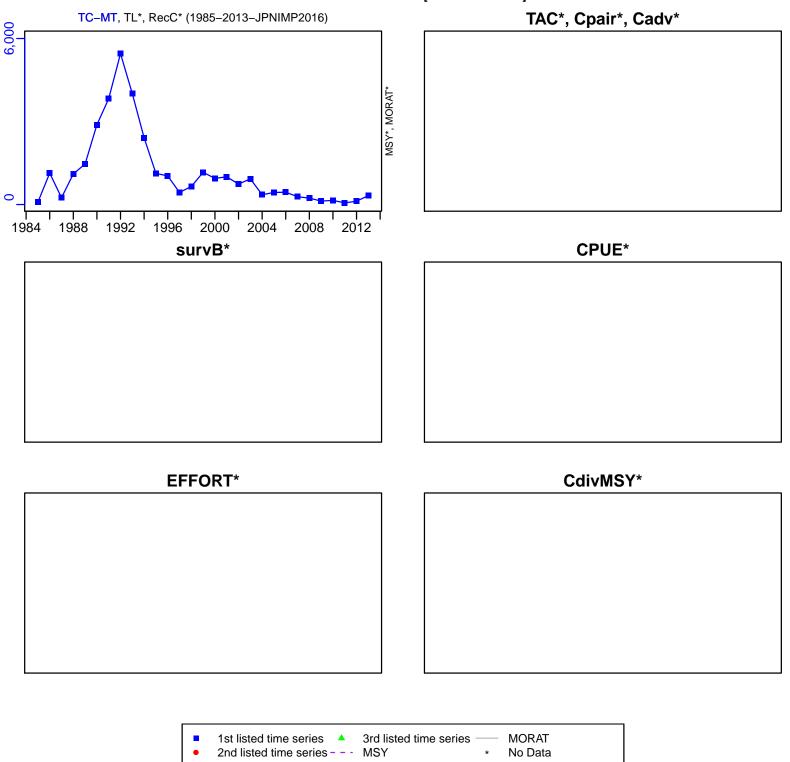
	Referen	ce Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		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 MSY-based BRP Li	arget BRP — Rec-Est m BRP * No Data



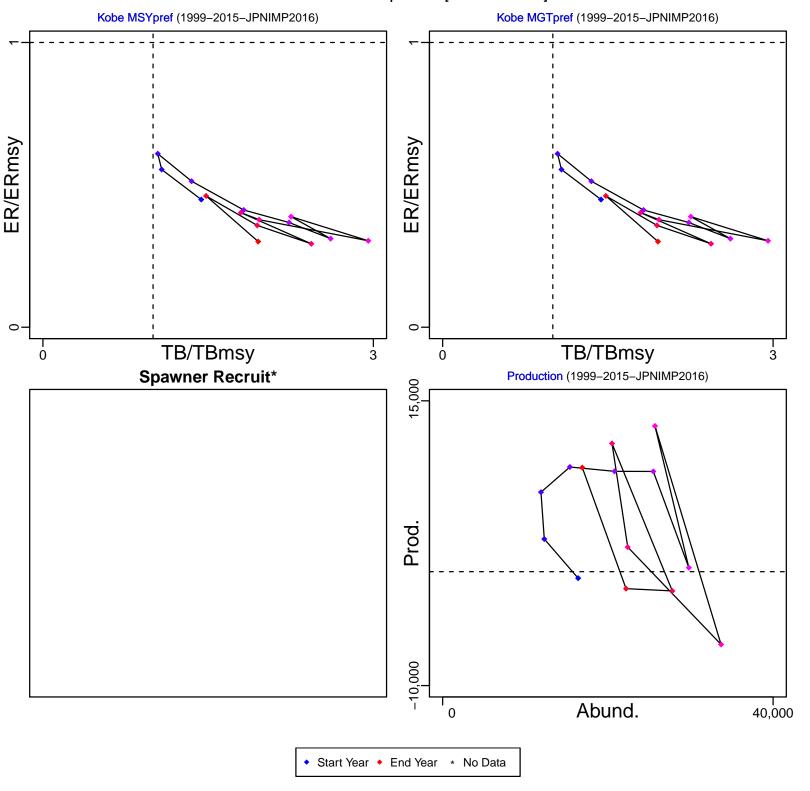
# Snow crab Sea of Japan West [SNOWCRABWSJ]

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	

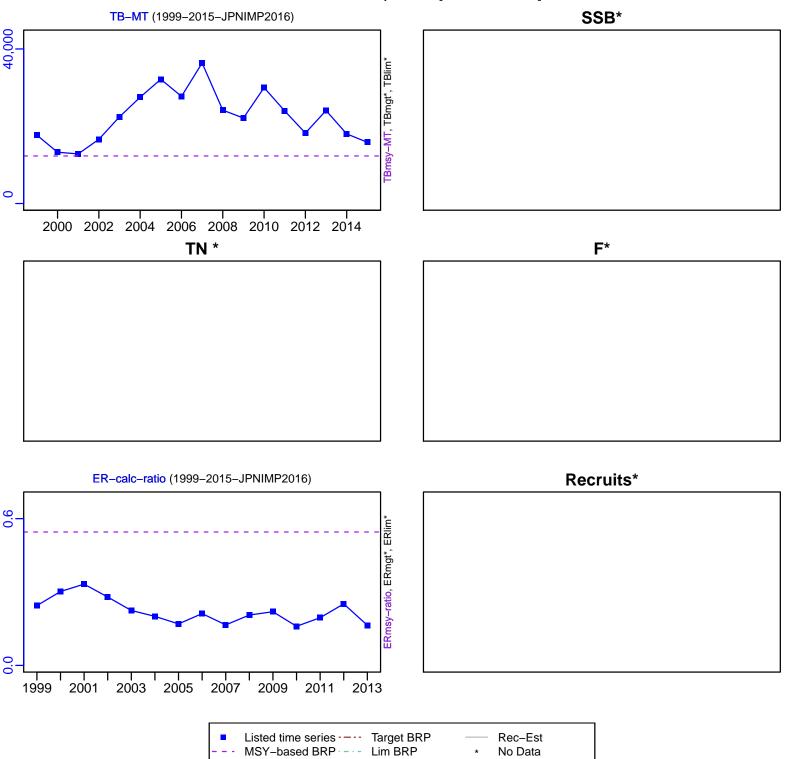
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2015	11,408		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2015	0.48		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2015	5476		
M	M-1/yr	2015	0.35		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-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

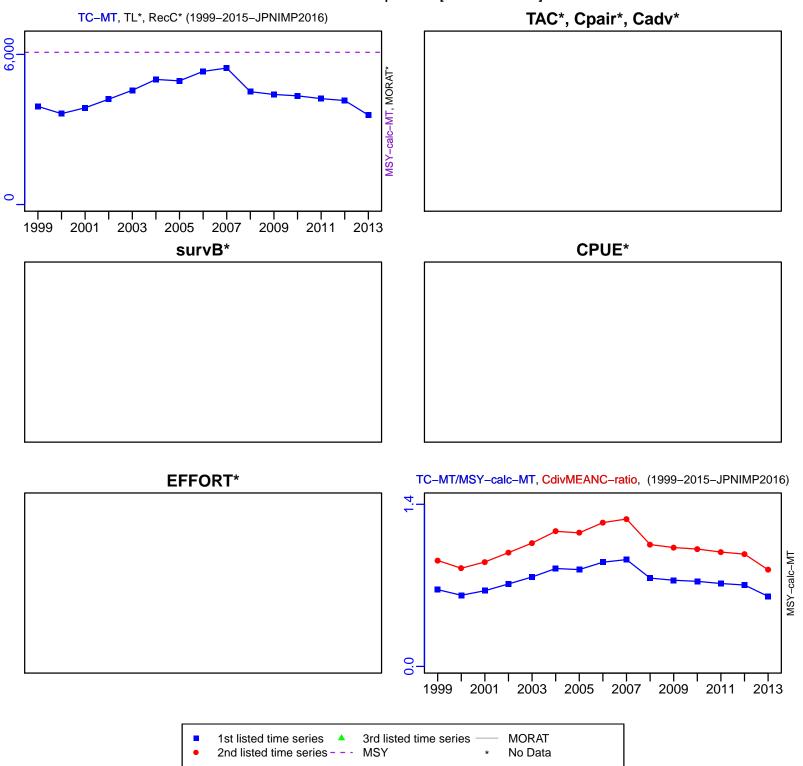
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	14,700	-	6
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0.144	-	-
TC	TC-MT	2015	3220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	1.289		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2015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

### Snow crab Sea of Japan West [SNOWCRABWSJ]



#### Snow crab Sea of Japan West [SNOWCRABWSJ]





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	

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	12,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
O., D.,	Production*
Spawner Recruit*	Production
Spawner Recruit <sup>*</sup>	Production
Spawner Recruit*	

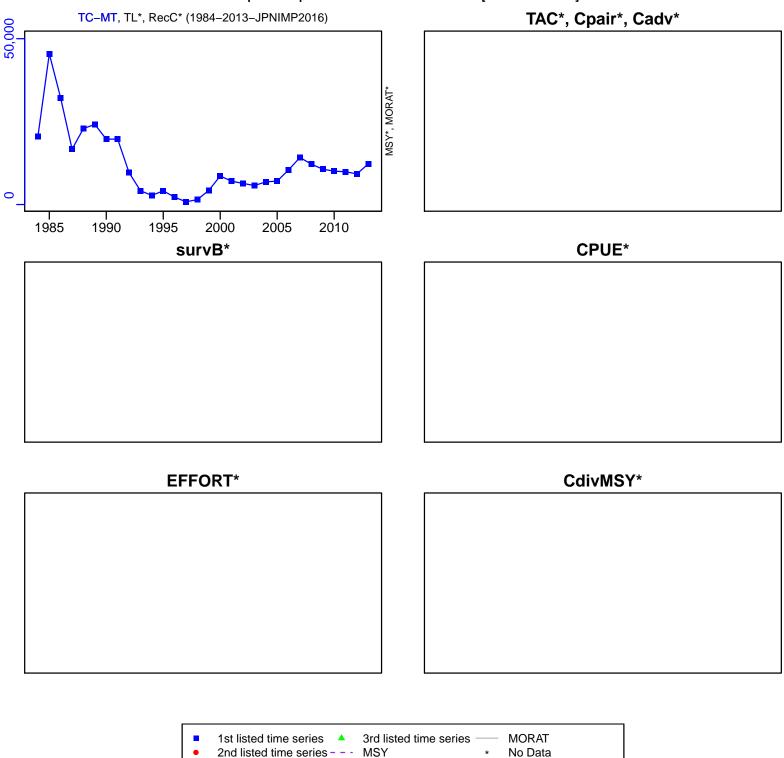
◆ Start Year ◆ End Year \* No Data

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

Lim BRP

No Data

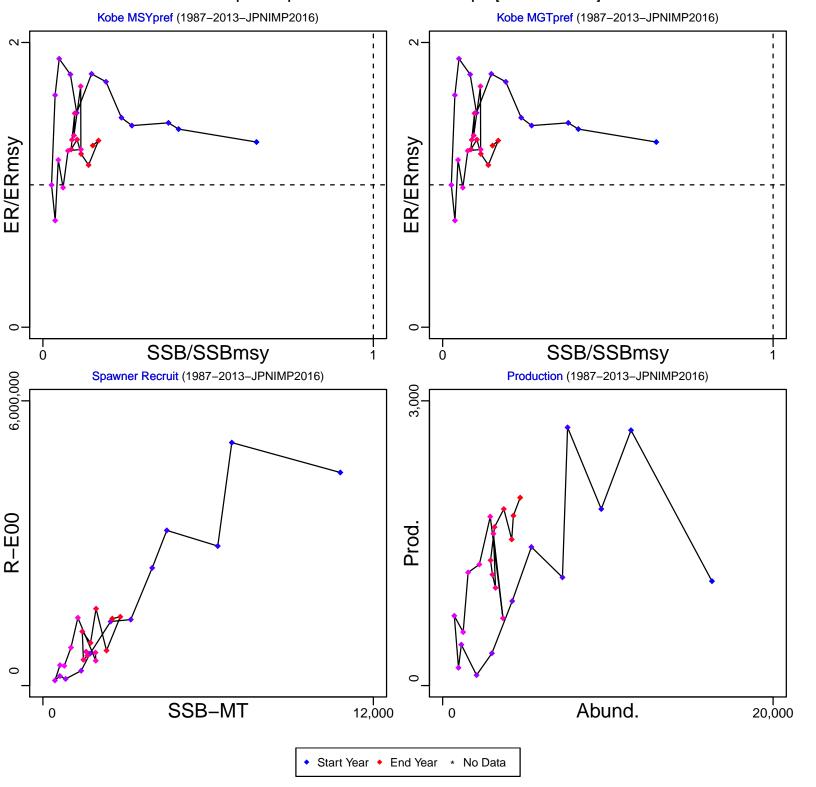
MSY-based BRP - - - -

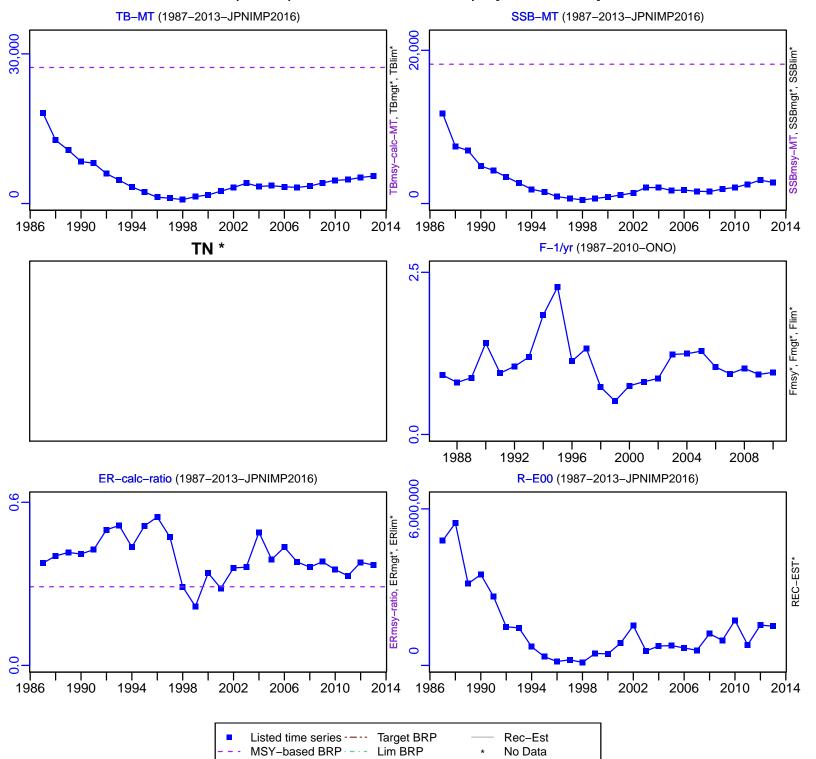


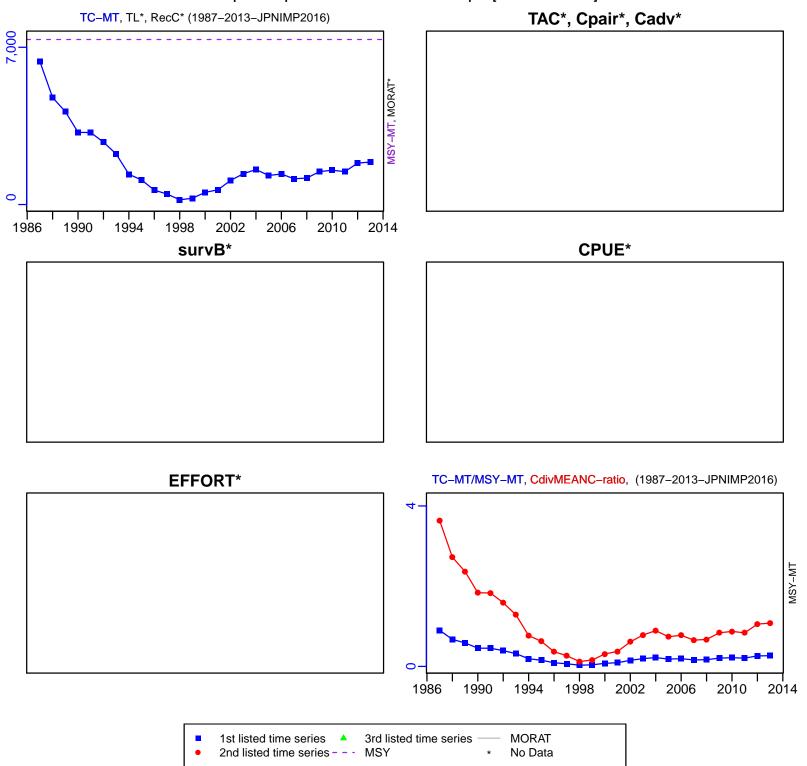
Metadata		
Scientific Name	Scomberomorus niphonius	
Current Assess ID	FAFRFJ-SPANMACKSETO-1987-2013-JPNIMP2016	
Area Inland Sea of Japan		
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2010, 2013	

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	

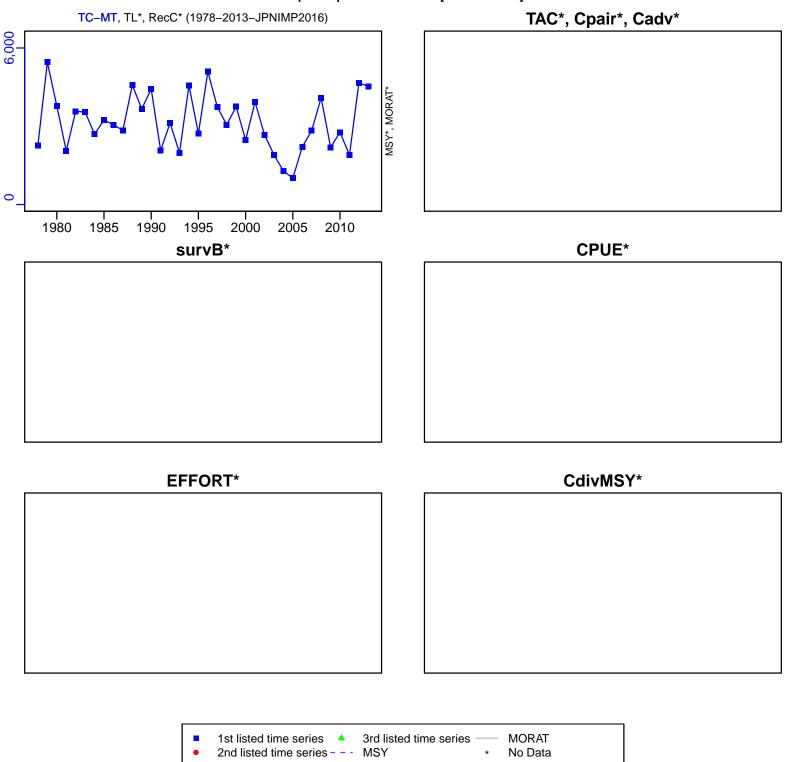
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data



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	

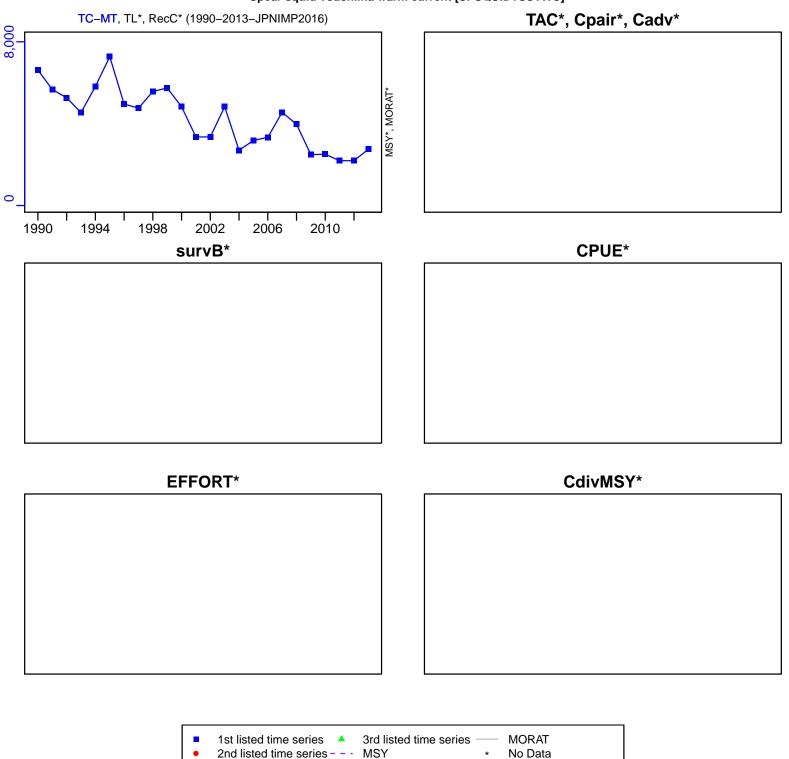
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-		

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 m BRP * No Data



# Sailfin sandfish Sea of Japan North [SSANDNSJ]

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	-	-	-		

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

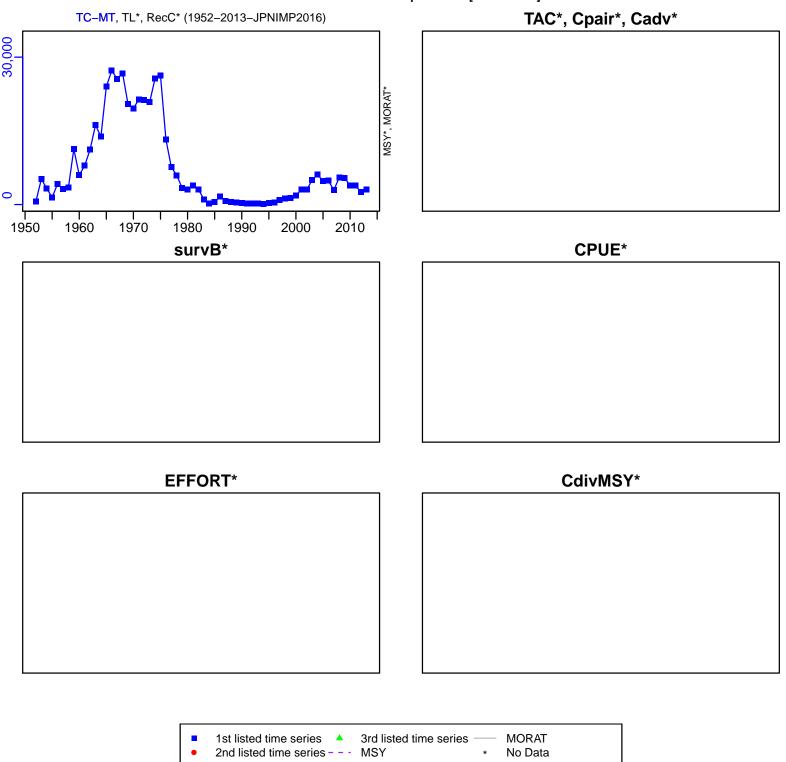
Kobe MSY*	Kobe MGT*		
	Production*		
Spawner Recruit*	Production*		

◆ Start Year ◆ End Year \* No Data

## Sailfin sandfish Sea of Japan North [SSANDNSJ]

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

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

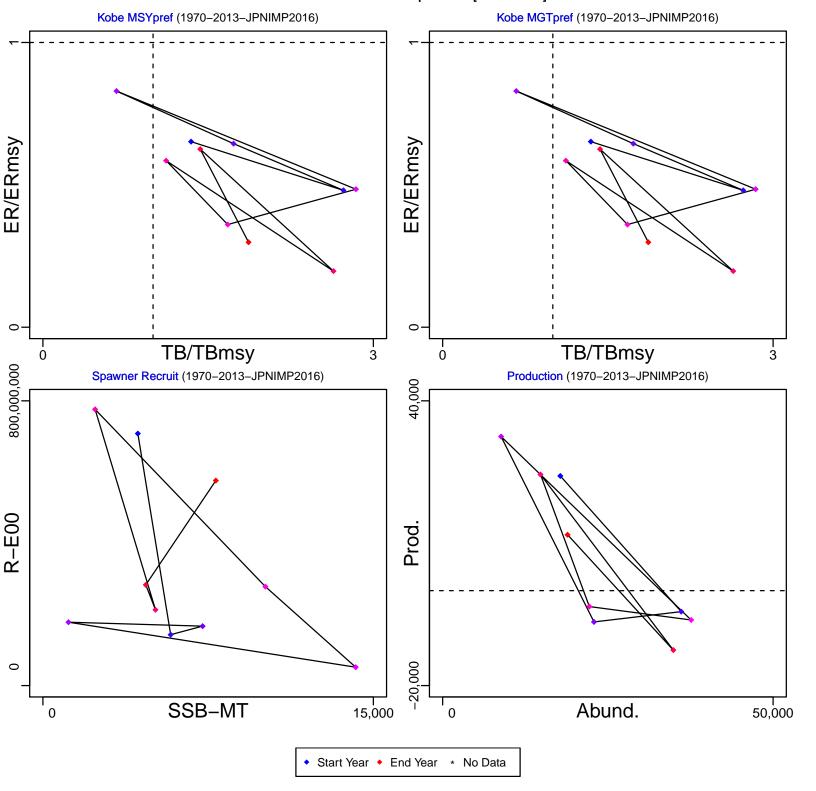


# Sailfin sandfish Sea of Japan West [SSANDWSJ]

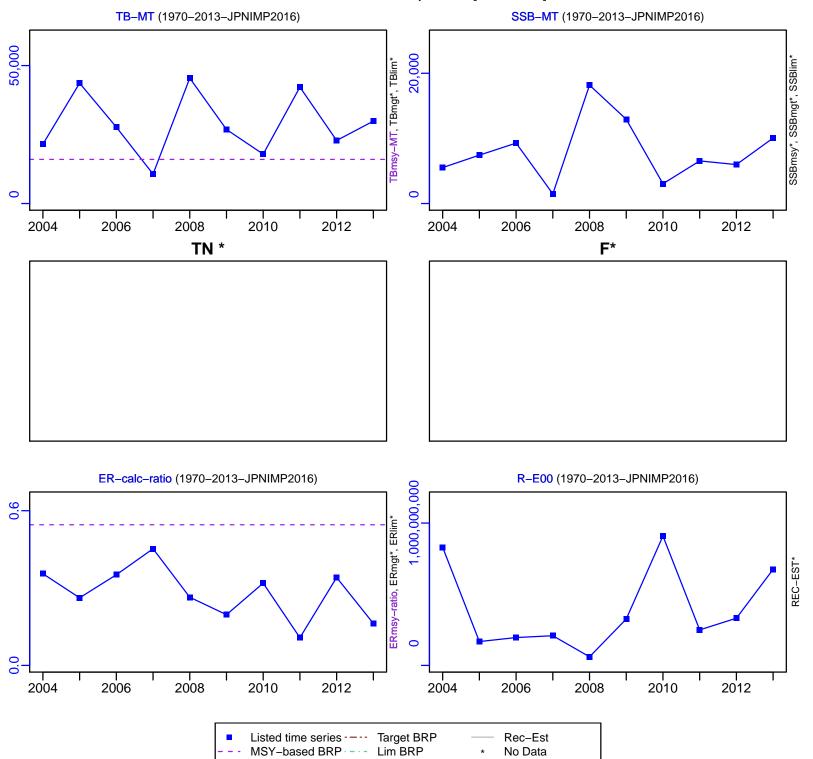
Metadata		
Scientific Name	Arctoscopus japonicus	
Current Assess ID	FAFRFJ-SSANDWSJ-1970-2013-JPNIMP2016	
Area	Sea of Japan West	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

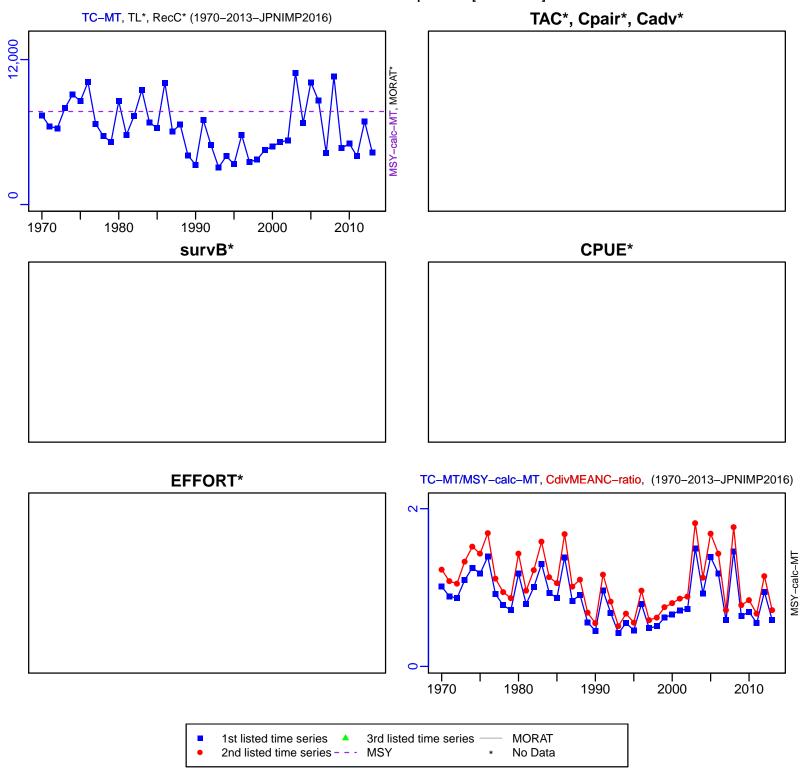
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2013	13,230		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.506		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-calc-MT	2013	6694		
M	M-1/yr	2013	0.5		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
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	$5.76 \times 10^{8}$	-	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	-	-	-		



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





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	

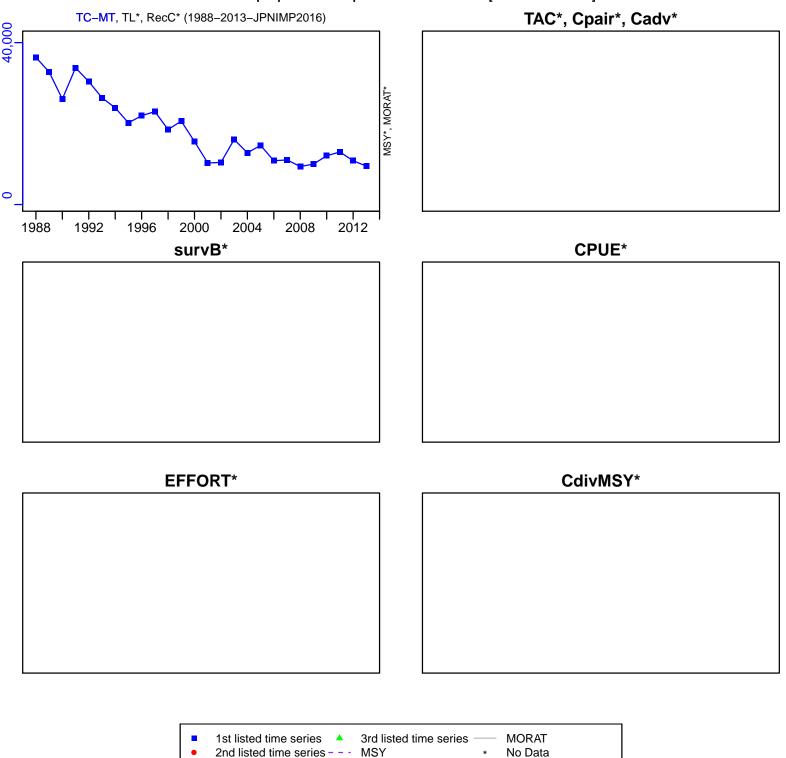
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
	<b>.</b>
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

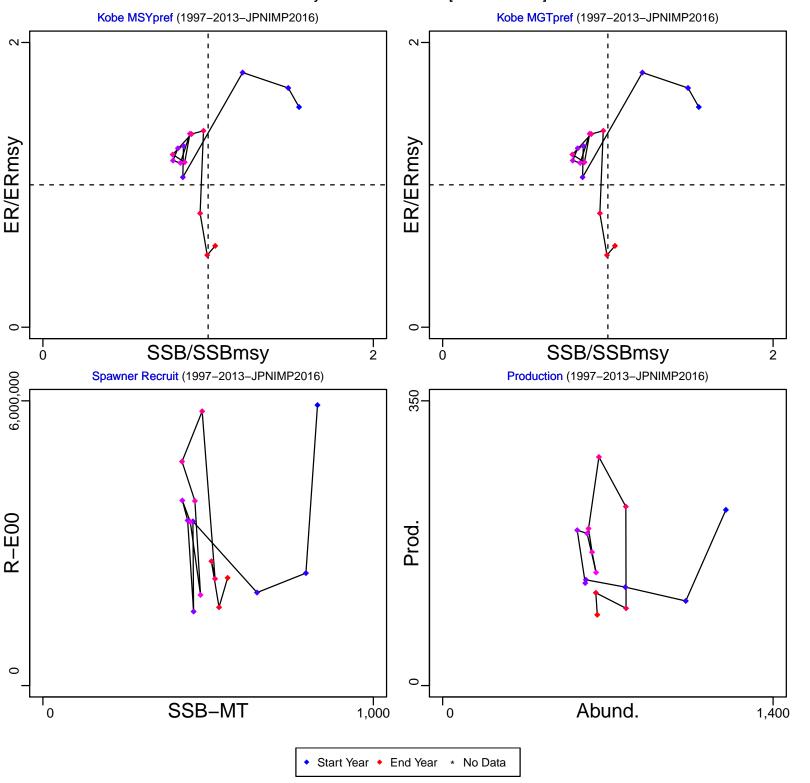
TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

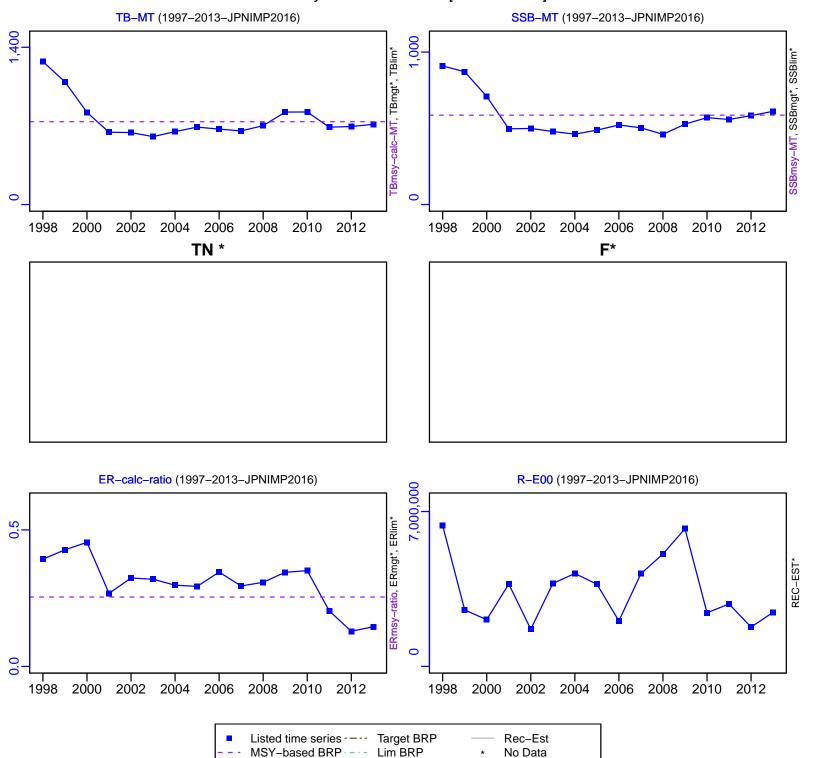


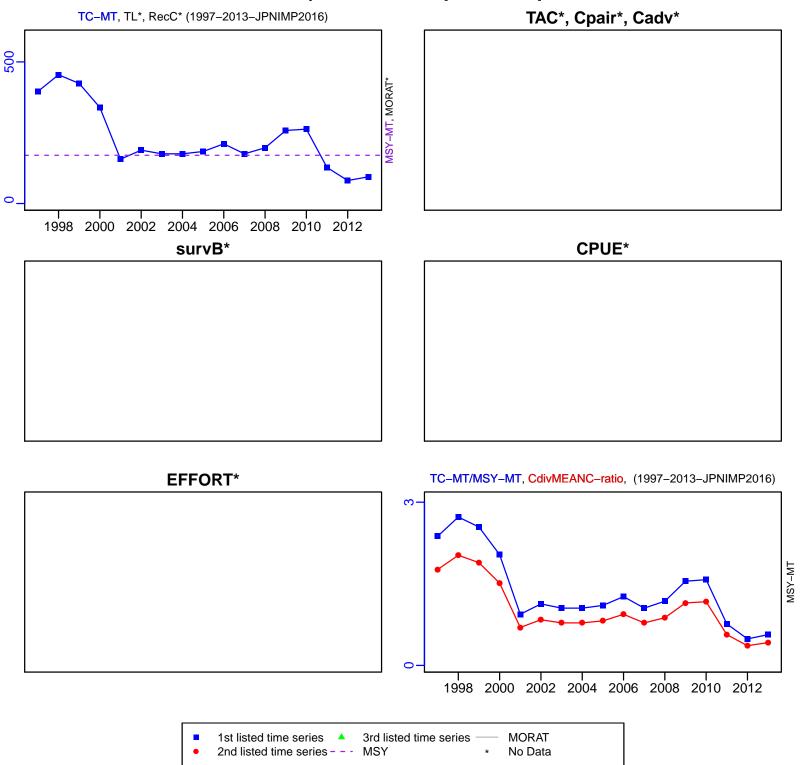
Metadata		
Scientific Name	Tanakius kitaharae	
Current Assess ID	FAFRFJ-WLFLOUNNPAC-1997-2013-JPNIMP2016	
Area	North Pacific	
Management Authority	Fisheries Agency of Japan	
Assessor	Fisheries Agency and Fisheries Research Agency of Japan	
Asmts in RAM	2013	

Reference Points				
Туре	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	

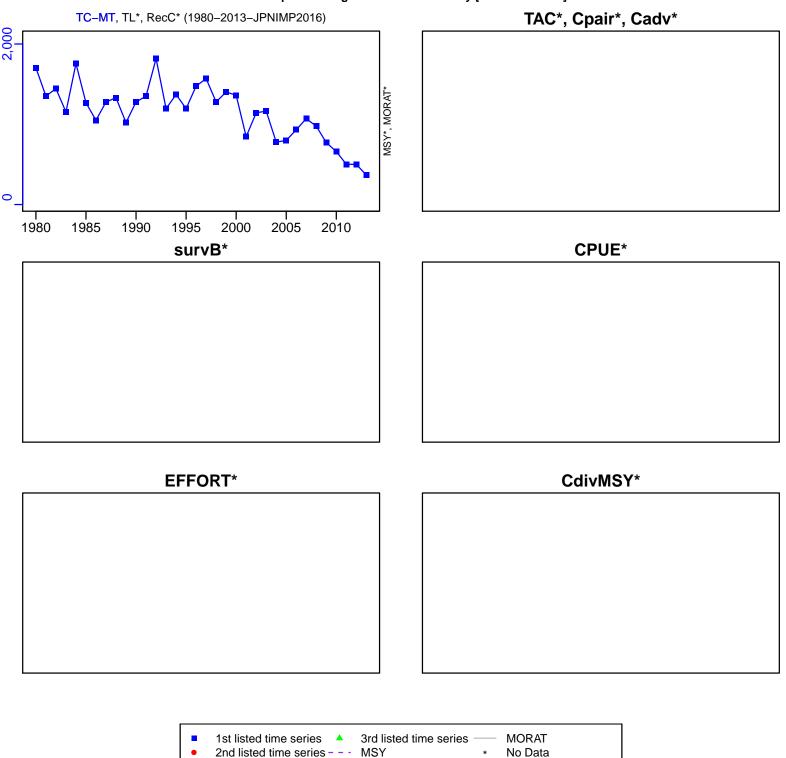
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
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	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	

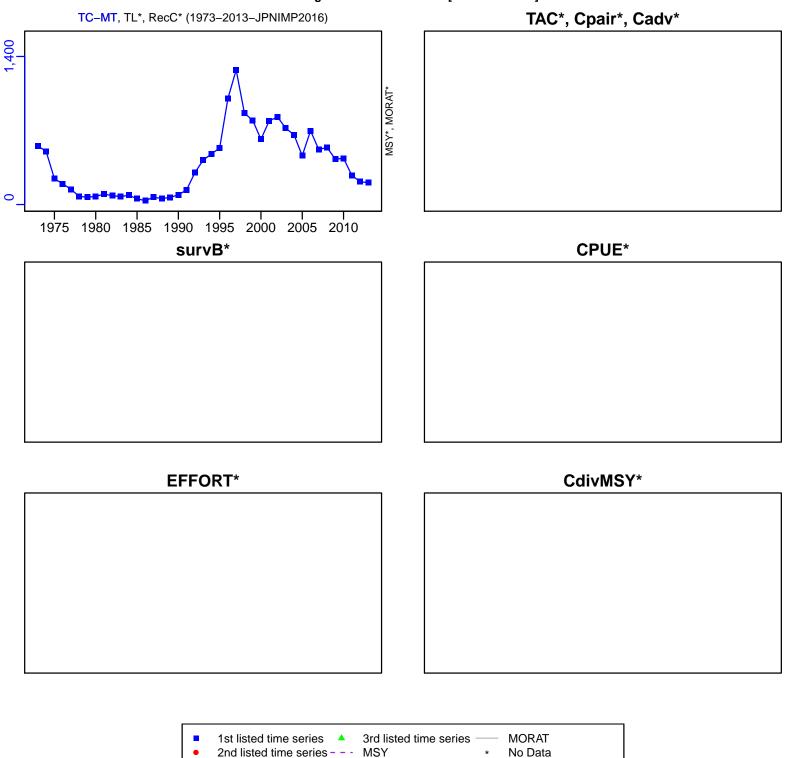
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	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	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		

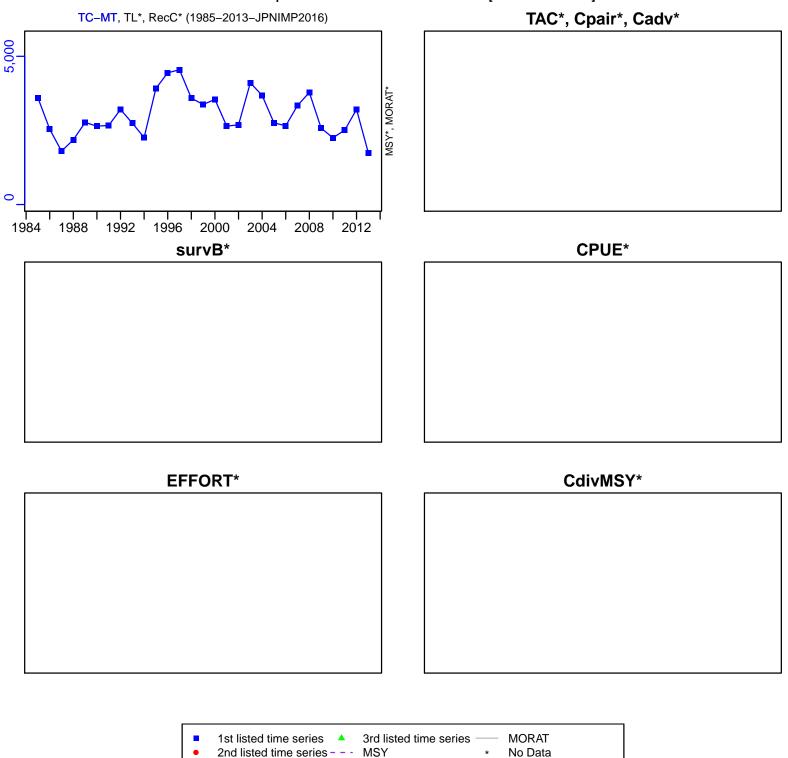
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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 *	<b>F</b> *
ER*	Recruits*
EK	Recruits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m 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	

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	240		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

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

