sebastids Stocks

v4.66 (Nov-03-2024)

Not present Present Preferred

	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. ACADRED2J3K [Acadian redfish NAFO Division 2J3K]	TB SSB	ER F	TB SSB	ER F
2. ACADREDGOMGB [Acadian redfish Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
3. ACADREDUT3 [Acadian redfish Unit 3]	TB SSB	ER F	TB SSB	ER F
4. AUROCKPCOAST [Aurora rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
5. BGROCKPCOAST [Blackgill rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
6. BLACKROCKCAL [Black rockfish California]	TB SSB	ER F	TB SSB	ER F
7. BLACKROCKORECOAST [Black rockfish Oregon Coast]	TB SSB	ER F	TB SSB	ER F
8. BLACKROCKWASH [Black rockfish Washington]	TB SSB	ER F	TB SSB	ER F
9. BLUEROCKCAL [Blue rockfish California]	TB SSB	ER F	TB SSB	ER F
10. BNKROCKCAL [Bank rockfish California]	TB SSB	ER F	TB SSB	ER F
11. BOCACCBCW [Bocaccio British Columbia Waters]	TB SSB	ER F	TB SSB	ER F
12. BOCACCSPCOAST [Bocaccio Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
13. BRNROCKPCOAST [Brown rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
14. CHILISPCOAST [Chilipepper Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
15. CHROCKCPCOAST [China rockfish Central Pacific Coast]	TB SSB	ER F	TB SSB	ER F
16. CHROCKNPCOAST [China rockfish Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
17. CHROCKSPCOAST [China rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
18. COWCODSCAL [Cowcod Southern California]	TB SSB	ER F	TB SSB	ER F
19. CPRROCKPCOAST [Copper rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
20. CROCKPCOAST [Canary rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
21. CROCKWCVANISOGQCI [Canary rockfish West Coast of Vancouver	TB SSB	ER F	TB SSB	ER F
Island and Strait of Georgia and Queen Charlotte Islands]				
22. DKROCKPCOAST [Darkblotched rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
23. DUSROCKGA [Dusky rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
24. GOLDREDNEAR [Golden redfish North-East Arctic]	TB SSB	ER F	TB SSB	ER F
25. GOLDREDV-VI-XII-XIV [Golden redfish ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
26. GOPHERSPCOAST [Gopher rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
27. GRNSTROCKPCOAST [Greenstriped rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
28. GRSPROCKNCAL [Greenspotted rockfish Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
29. GRSPROCKSCAL [Greenspotted rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
30. KCROCKNPAC [Kichiji rockfish North Pacific]	TB SSB	ER F	TB SSB	ER F
31. KCROCKOKS [Kichiji rockfish Okhotsk Sea]	TB SSB	ER F	TB SSB	ER F
32. KCROCKSWHOKK [Kichiji rockfish Southwestern coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
33. LSTHORNHPCOAST [Longspine thornyhead Pacific Coast]	TB SSB	ER F	TB SSB	ER F
34. NROCKBSAI [Northern rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
35. NROCKGA [Northern rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
36. PERCHEBSAI [Pacific ocean perch Eastern Bering Sea and Aleutian	TB SSB	ER F	TB SSB	ER F
Islands]				
37. PERCHHG [Pacific Ocean perch Haida Gwaii]	TB SSB	ER F	TB SSB	ER F

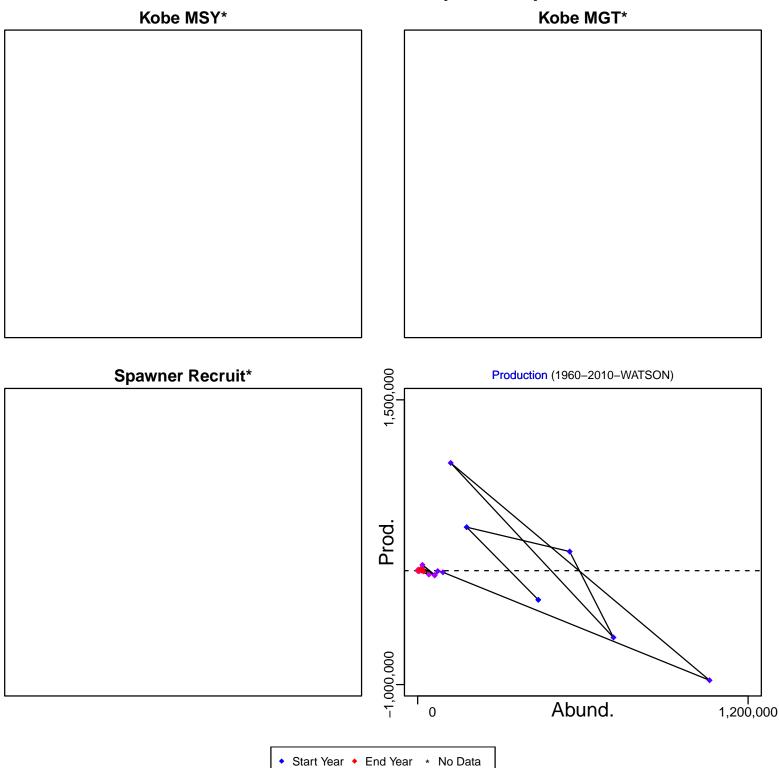
39. POPERCHGA [Pacific ocean perch Gulf of Alaska]	38. PERCHWCVANI [Pacific ocean perch West Coast of Vancouver Is-	TB SSB	ER F	TB SSB	ER F
40. POPERCHPCÓAST [Pacific ocean perch Pacific Coast] 41. OROCKPCOASTIN [Quillback rockfish Pacific Coast of Canada (Inside)] 42. QROCKPCOASTOUT [Quillback rockfish Pacific Coast of Canada (Inside)] 43. REDDEEPDP-1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and ITB SSB ER F ITB SSB ER F (Outside)] 44. REDDEEPDP-1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and ITB SSB ER F ITB SSB ER F NAFO Subareas 1-2 (deep)] 44. REDDEEPH-II [Deepwater redfish North-East Arctic] ITB SSB ER F ITB SSB ER F ITB SSB ER F NAFO Subareas 1-2 (shallow)] 46. REDDEEPSH-1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and ITB SSB ER F ITB	land]				
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48. REDFISHSPP3LN [Redfish species N and SW Grand Banks] 49. REDFISHSPP3M [Redfish species Flemish Cap] 50. REDFISHSPPUT1 [Redfish species Unit 1] 51. REDFISHSPPUT2 [Redfish species Unit 2] 52. REYEROCKBSAI [Rougheye rockfish Bering Sea and Aleutian Islands] 53. REYEROCKGA [Rougheye rockfish Gulf of Alaska] 54. RSROCKBCWN [Redstripe rockfish British Columbia Waters North] 55. RSROCKBCWS [Redstripe rockfish British Columbia Waters North] 56. SBELLYROCKPCOAST [Shortbelly rockfish Pacific Coast] 57. SHCROCKPCOAST [Shirtnaker rockfish Pacific Coast] 58. SNROCKBCSI [Shortraker rockfish Bering Sea and Aleutian Islands] 60. SRAKEROCKGA [Shortraker rockfish Gulf of Alaska] 61. SSTHORNHPCOAST [Shortspine thornyhead Gulf of Alaska] 62. SSTHORNHPCOAST [Shortspine thornyhead Pacific Coast] 63. WROCKBCW [Widow rockfish British Columbia Waters] 64. WROCKPCOAST [Shortspine thornyhead Pacific Coast] 65. SBELLYROCKGA [Shortraker rockfish Bering Sea and Aleutian Islands] 66. SRAKEROCKGA [Shortraker rockfish Bering Sea and Aleutian Islands] 67. YEYEROCKGA [Shortspine thornyhead Pacific Coast] 68. SRHORNHPCOAST [Shortspine thornyhead Pacific Coast] 69. SRAKEROCKGA [Shortraker rockfish Gulf of Alaska] 60. SRAKEROCKGA [Shortspine thornyhead Pacific Coast] 61. SSTHORNHPCOAST [Shortspine thornyhead Pacific Coast] 62. SSTHORNHPCOAST [Shortspine thornyhead Pacific Coast] 63. WROCKBCW [Widow rockfish British Columbia Waters] 64. WROCKPCOAST [Widow rockfish British Columbia Waters] 65. YEYEROCKPCOAST [Widow rockfish Pacific Coast] 66. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 67. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 68. SRB SR F TB SSB ER F 69. SRB SR F TB SSB ER F 60. SRB SR F TB SSB ER F 61. SSB ER F 62. SRB SR F 63. WROCKPCOAST [Widow rockfish Pacific Coast] 64. WROCKPCOAST [Widow rockfish Pacific Coast] 65. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 66. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 67. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 68. SRB ER F					I I
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51. REDFISHSPPUT2 [Redfish species Unit 2] 52. REYEROCKBSAI [Rougheye rockfish Bering Sea and Aleutian Islands] 53. REYEROCKGA [Rougheye rockfish Gulf of Alaska] 54. RSROCKBCWN [Redstripe rockfish British Columbia Waters North] 55. RSROCKBCWS [Redstripe rockfish British Columbia Waters South] 56. SBELLYROCKPCOAST [Shortbelly rockfish Pacific Coast] 57. SHCROCKPCOAST [Sharpchin rockfish Pacific Coast] 58. SNROCKPCOAST [Shirnose rockfish Pacific Coast] 59. SRAKEROCKBSAI [Shortraker rockfish Bering Sea and Aleutian Islands] 60. SRAKEROCKGA [Shortraker rockfish Gulf of Alaska] 61. SSTHORNHGA [Shortspine thornyhead Gulf of Alaska] 62. SSTHORNHPCOAST [Shortspine thornyhead Pacific Coast] 63. WROCKBCW [Widow rockfish British Columbia Waters] 64. WROCKPCOAST [Widow rockfish Gulf of Alaska] 65. TB SSB ER F 66. YEYEROCKPCOAST [Yelloweye rockfish Gulf of Alaska] 76. TB SSB ER F 77. TB SSB ER F 78. SSB ER F 78. SSB ER F 79. SSB ER F 70. TB SSB ER F 70. TB SSB ER F 71. TB SSB ER F 71. TB SSB ER F 71. TB SSB ER F 72. TB SSB ER F 73. TB SSB ER F 74. TB SSB ER F 75. TB SSB ER F 76. WROCKPCOAST [Widow rockfish British Columbia Waters] 76. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast] 78. SSB ER F 78. SSB ER F					
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67. YEYEROCKPCOASTIN [Yelloweye rockfish Pacific Coast of Canada TB SSB ER F (Inside)]	65. YEYEROCKGA [Yelloweye rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
(Inside)]	66. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast]	TB SSB	ER F		ER F
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Acadian redfish NAFO Division 2J3K [ACADRED2J3K]

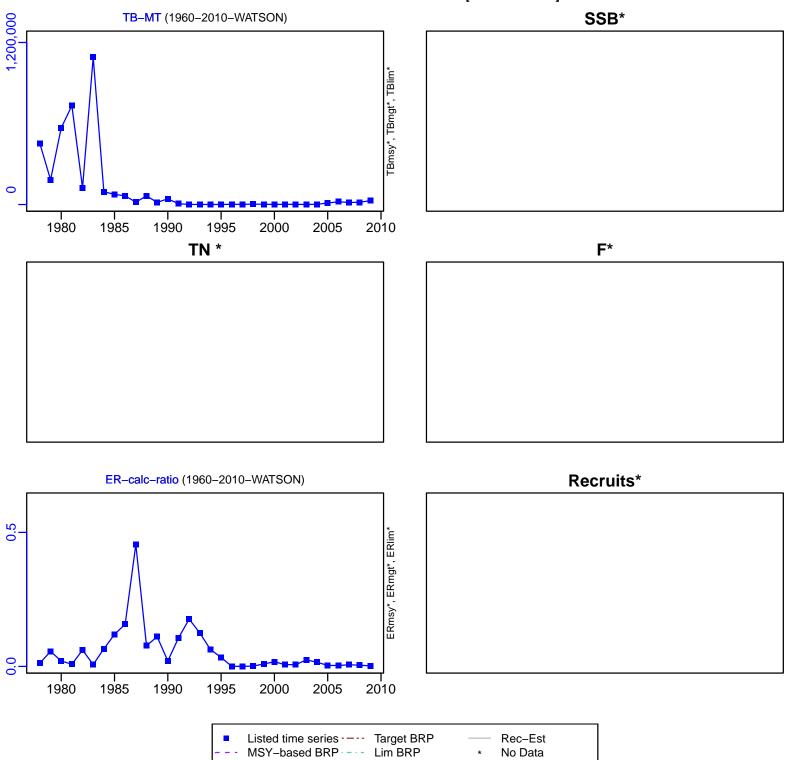
Metadata			
Scientific Name	Sebastes fasciatus		
Current Assess ID	DFO-ACADRED2J3K-1960-2010-WATSON		
Area	NAFO Division 2J3K		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2010		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	3000	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2010	27,600	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2010	0.002	-	-	
TC	TC-MT	2010	49			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

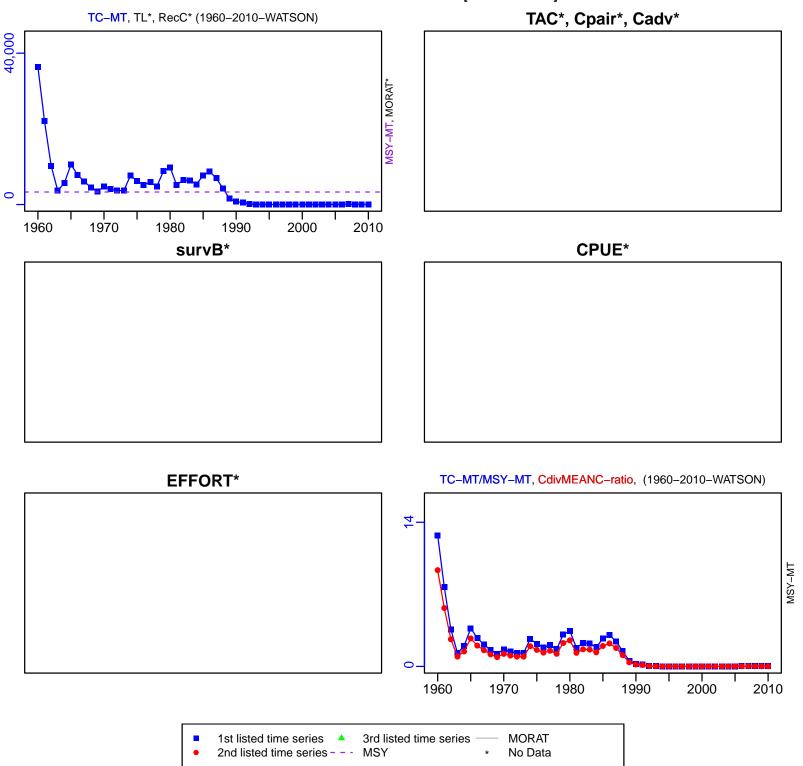


Acadian redfish NAFO Division 2J3K [ACADRED2J3K]



No Data

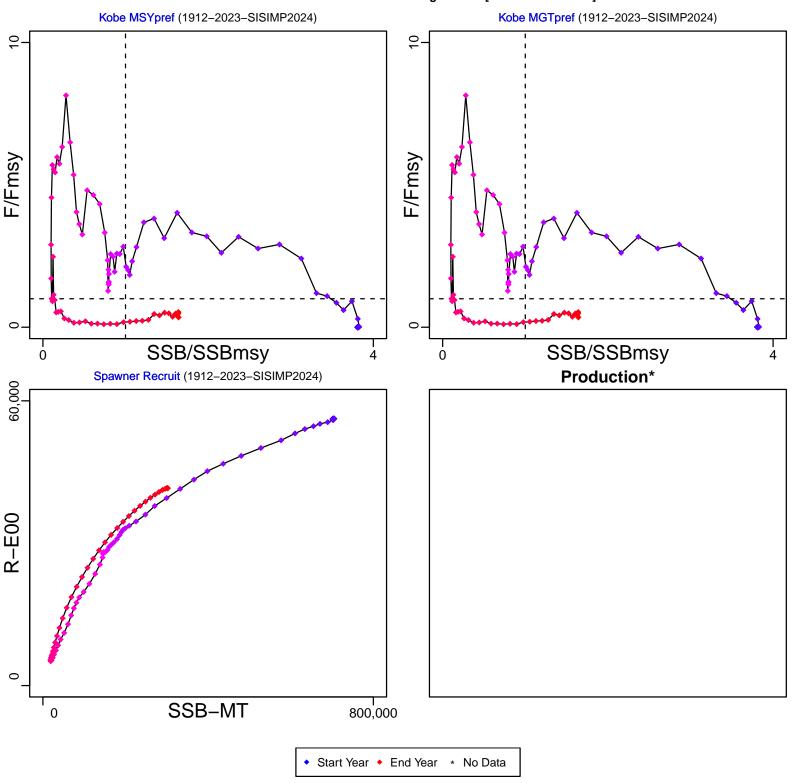
Acadian redfish NAFO Division 2J3K [ACADRED2J3K]

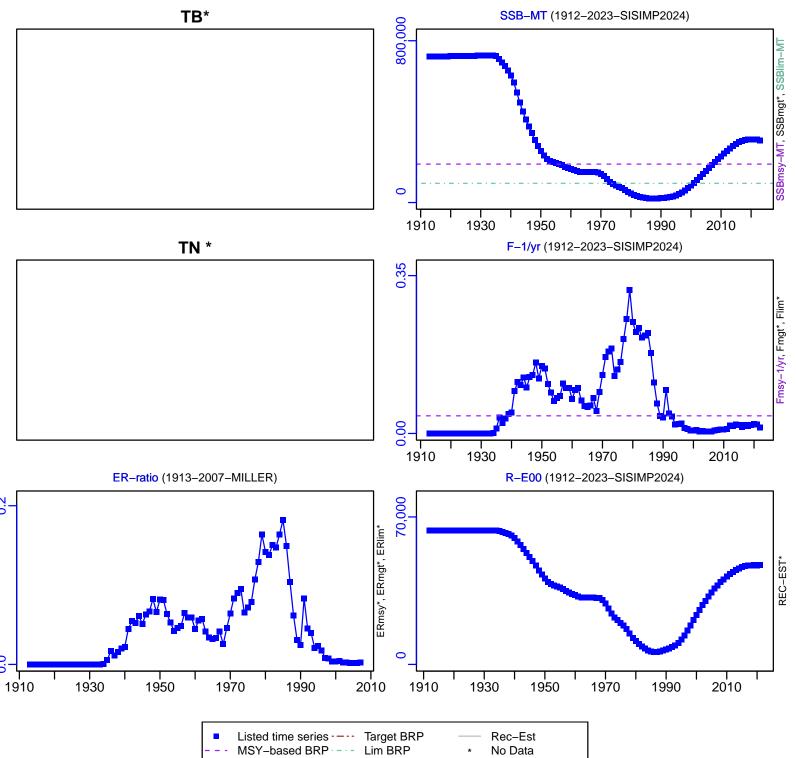


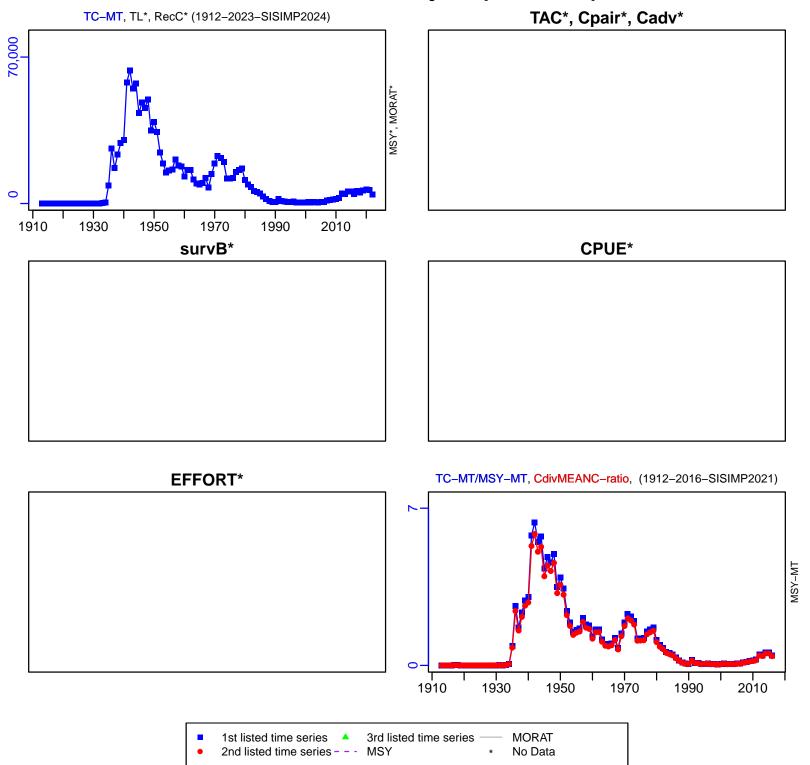
Metadata			
Scientific Name	Sebastes fasciatus		
Current Assess ID	NEFSC-ACADREDGOMGB-1912-2023-SISIMP2024		
Area	Gulf of Maine / Georges Bank		
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northeast Fisheries Science Center			
Asmts in RAM	2016, 2023, 2007, 2014, 2019		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2023	184,322		
Fmsy	Fmsy-1/yr	2023	0.037		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2016	9318		
M	M-1/yr	2007	0.05		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2023	92,161		
Flim	Flim-1/yr	2019	0.038		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	_	-
SSB	SSB-MT	2023	298,563	-	-
TN	-	-	-	-	-
R	R-E00	2023	41,646	-	1
F	F-1/yr	2023	0.013	-	-
ER	ER-ratio	2007	0.002	-	-
TC	TC-MT	2023	3823		
TL	TL-MT	2007	787		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2023	1.62		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.346		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





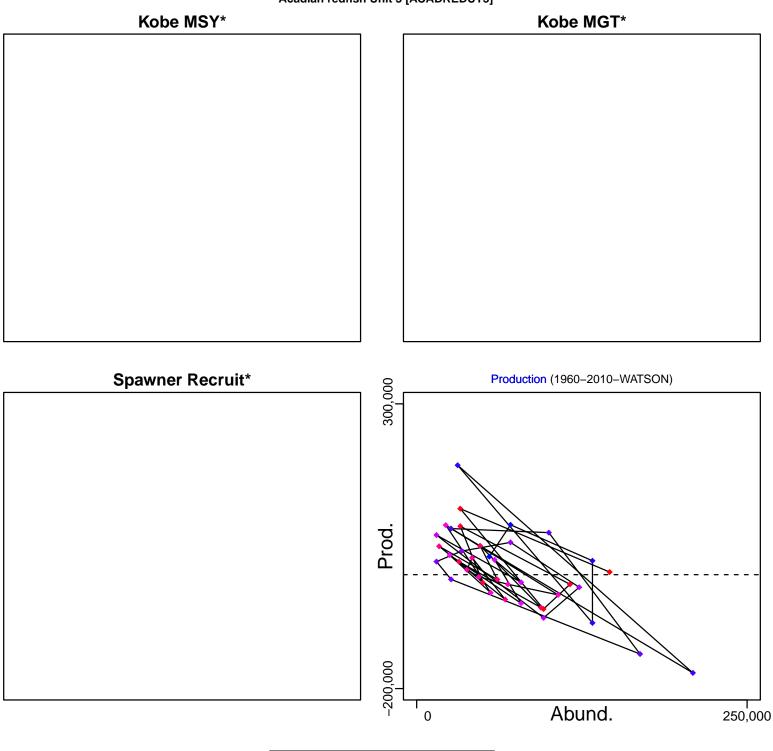


Acadian redfish Unit 3 [ACADREDUT3]

Metadata			
Scientific Name	Sebastes fasciatus		
Current Assess ID	DFO-ACADREDUT3-1960-2010-WATSON		
Area	Unit 3		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2010		

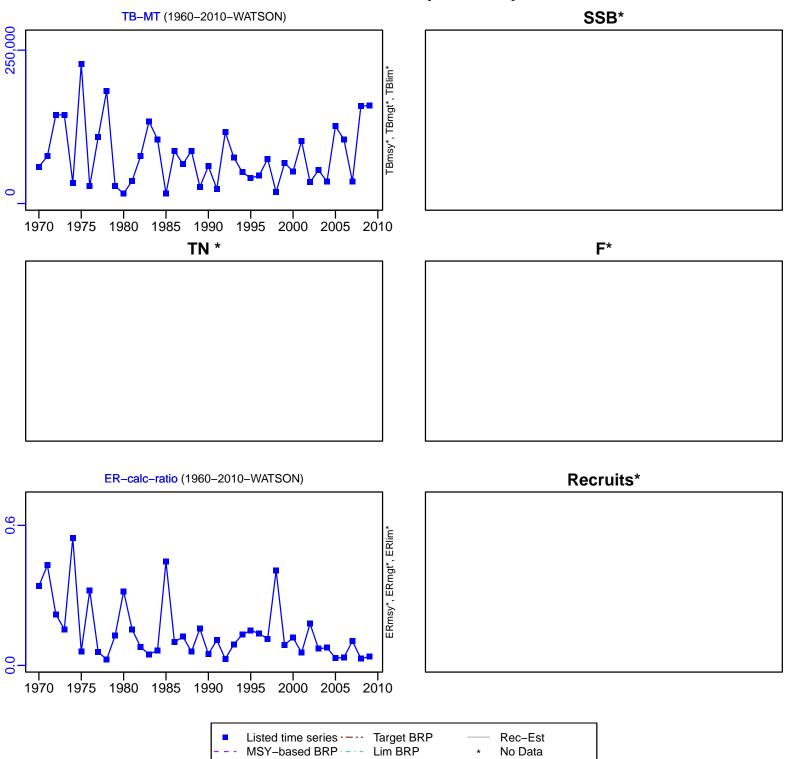
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	131,000		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2010	147,000	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2010	0.031	-	-	
TC	TC-MT	2010	5200			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



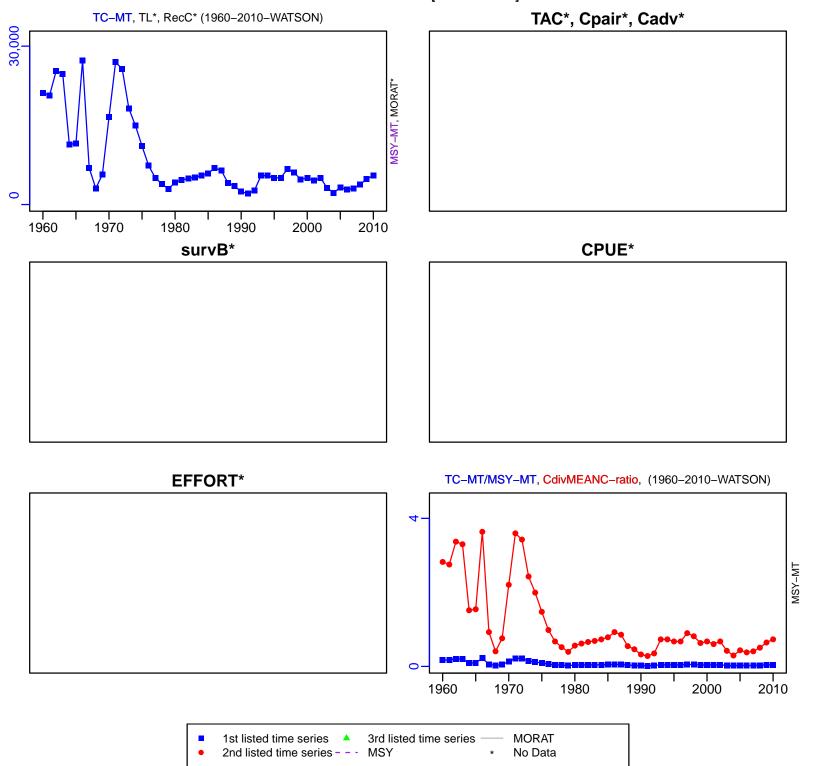
Start Year • End Year * No Data

Acadian redfish Unit 3 [ACADREDUT3]



No Data

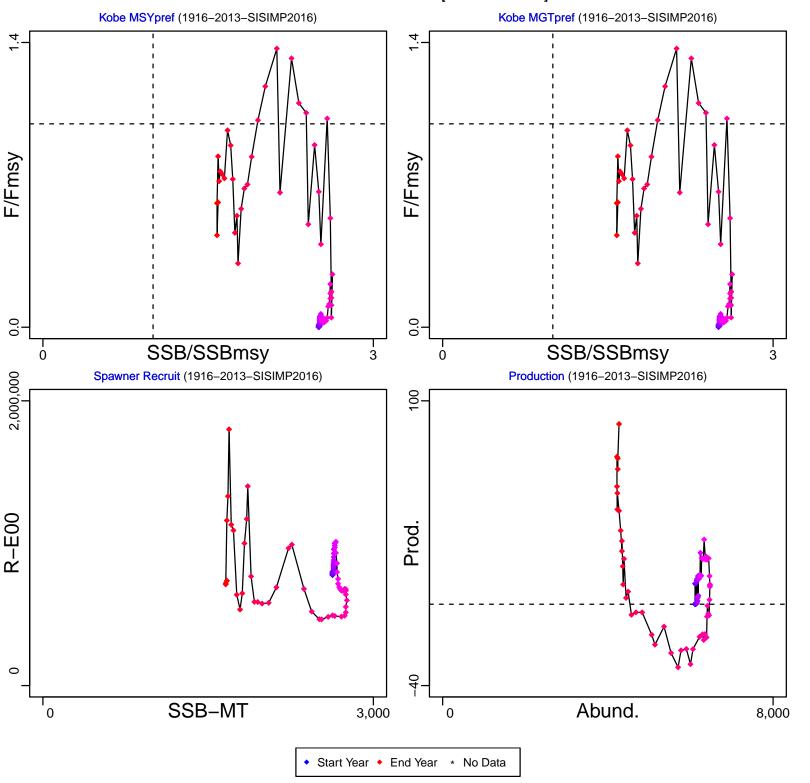
Acadian redfish Unit 3 [ACADREDUT3]

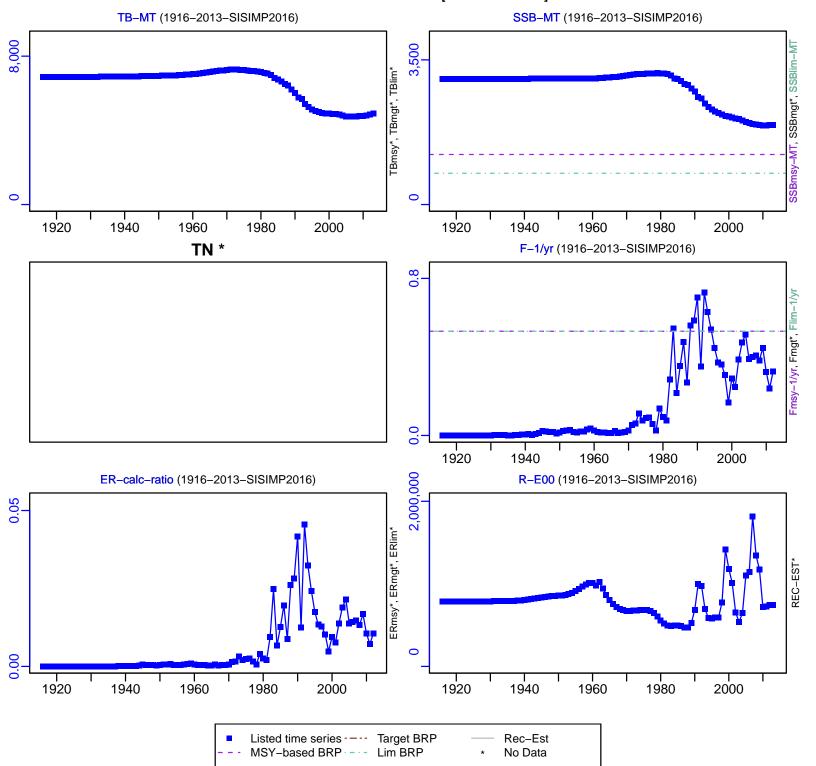


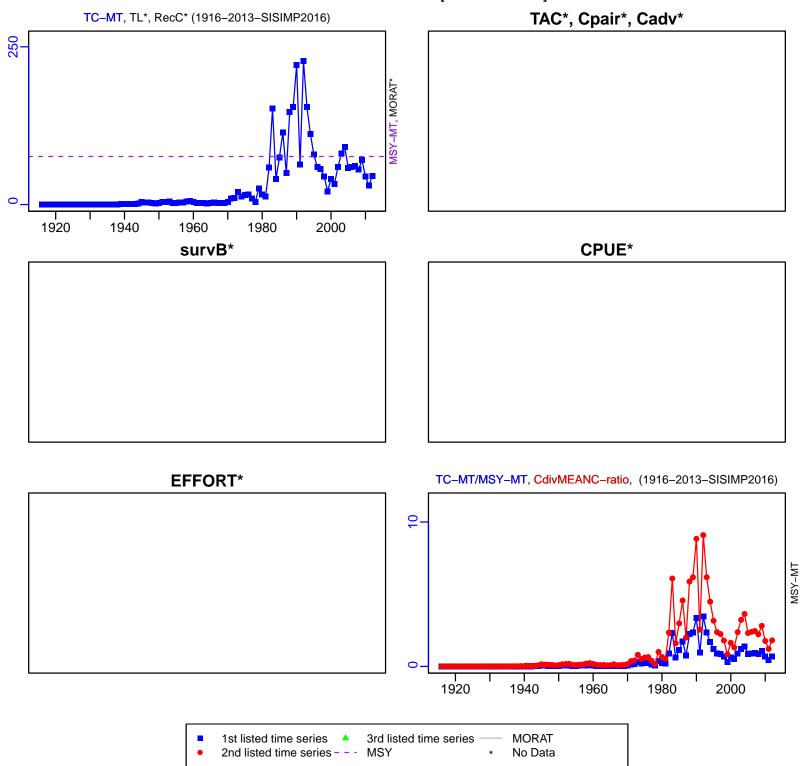
Metadata			
Scientific Name	Sebastes aurora		
Current Assess ID	NWFSC-AUROCKPCOAST-1916-2013-SISIMP2016		
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2013		

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	1050
Fmsy	Fmsy-1/yr	2013	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	72
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2013	657
Flim	Flim-1/yr	2013	0.5
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	4370	-	0+
SSB	SSB-MT	2013	1670	Females	12.56
TN	-	-	-	-	-
R	R-E00	2013	736,000	-	0
F	F-1/yr	2013	0.307	-	-
ER	ER-calc-ratio	2013	0.01	-	-
TC	TC-MT	2013	43		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.59		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.614		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







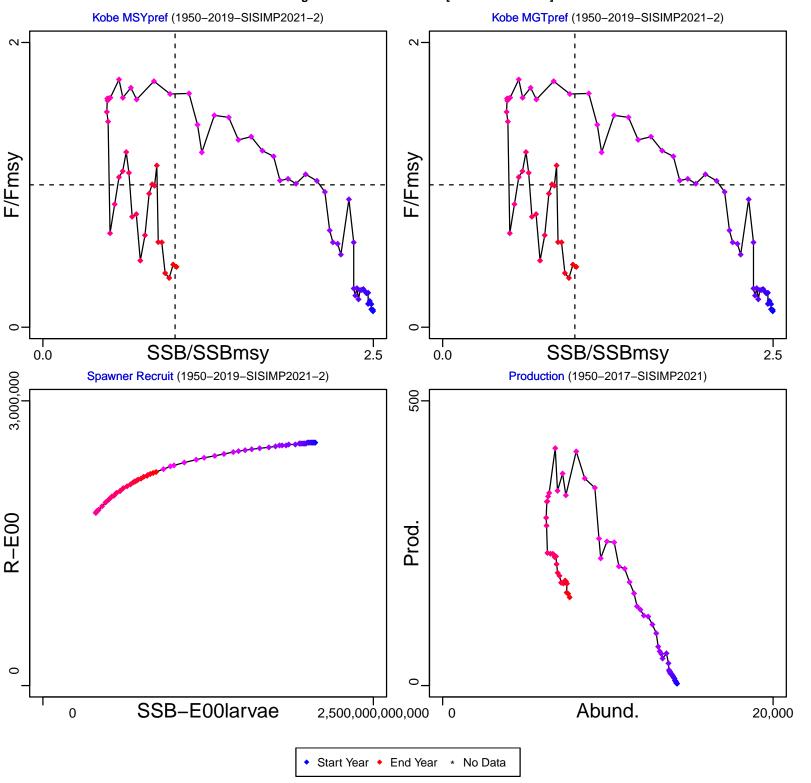
Blackgill rockfish Pacific Coast [BGROCKPCOAST]

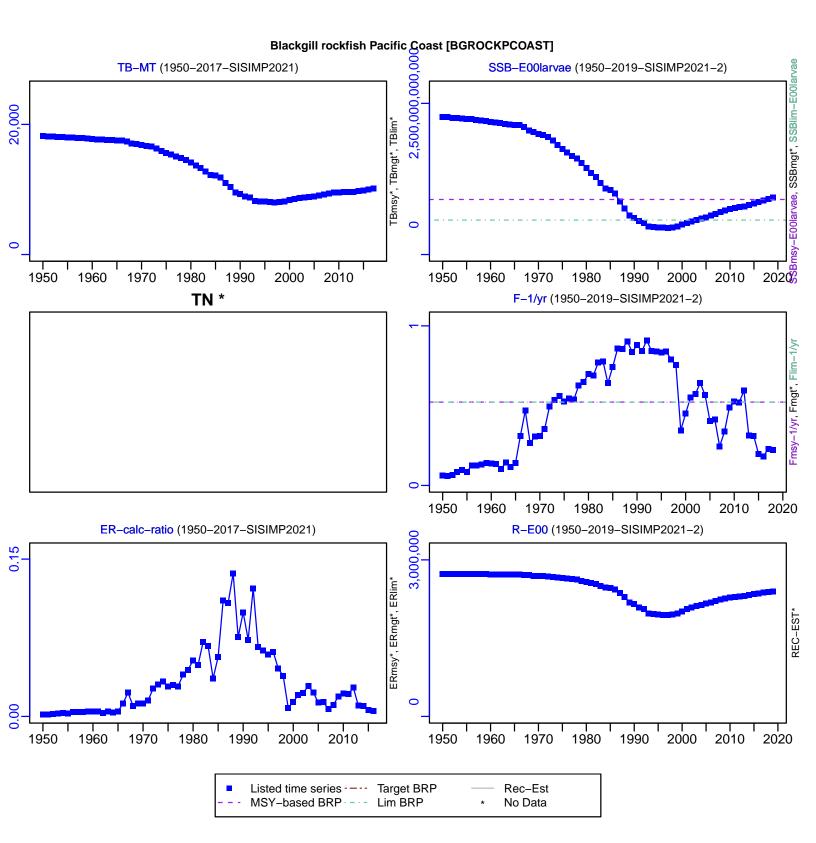
Metadata		
Scientific Name	Sebastes melanostomus	
Current Assess ID	NWFSC-BGROCKPCOAST-1950-2019-SISIMP2021-2	
Area	Pacific Coast	
Management Authority National Marine Fisheries Service, US national management		
Assessor	Assessor Northwest Fisheries Science Center	
Asmts in RAM	2011, 2017, 2019	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	5063
SSBmsy	SSBmsy-E00larvae	2019	8.25×10^{11}
Fmsy	Fmsy-1/yr	2019	0.5
ERmsy	ERmsy-pr-ratio	2011	0.022
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	12,927
SSB0	SSB0-E00larvae	2011	1,187,800
MSY	MSY-MT	2019	189
М	M-1/yr	2011	0.07
TBlim	-	-	-
SSBlim	SSBlim-E00larvae	2019	5.16×10^{11}
Flim	Flim-1/yr	2019	0.5
ERlim	-	-	-

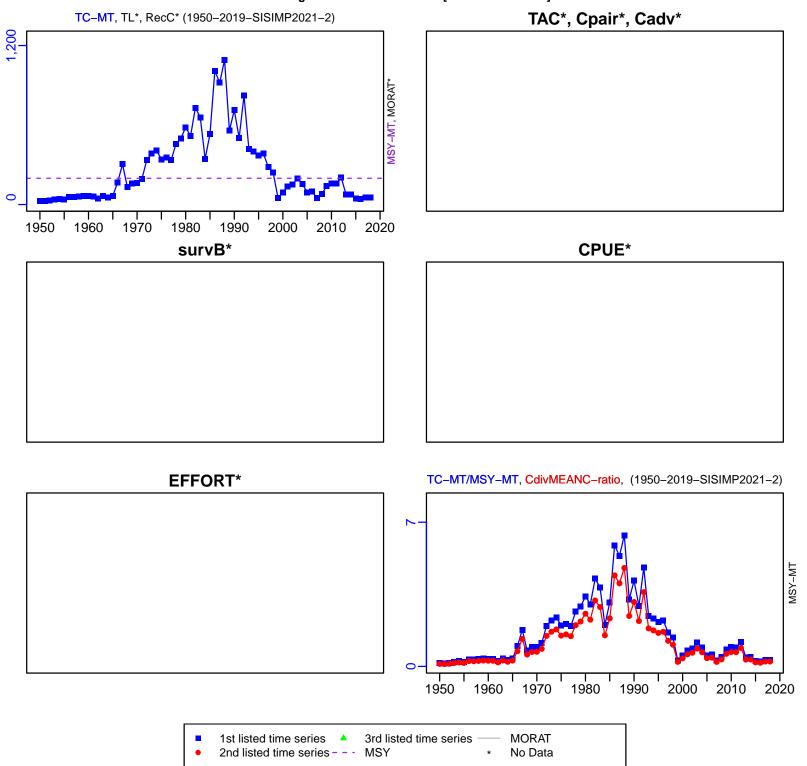
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	7910	-	-
SSB	SSB-E00larvae	2019	8.56×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,250,000	-	0
F	F-1/yr	2019	0.212	-	-
ER	ER-calc-ratio	2017	0.005	-	-
TC	TC-MT	2019	51		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.302]	
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae	2019	1.038]	
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.424]	
ER/ERmsy	ER-ratio/ERmsy-pr-ratio	2011	1.032		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blackgill rockfish Pacific Coast [BGROCKPCOAST]





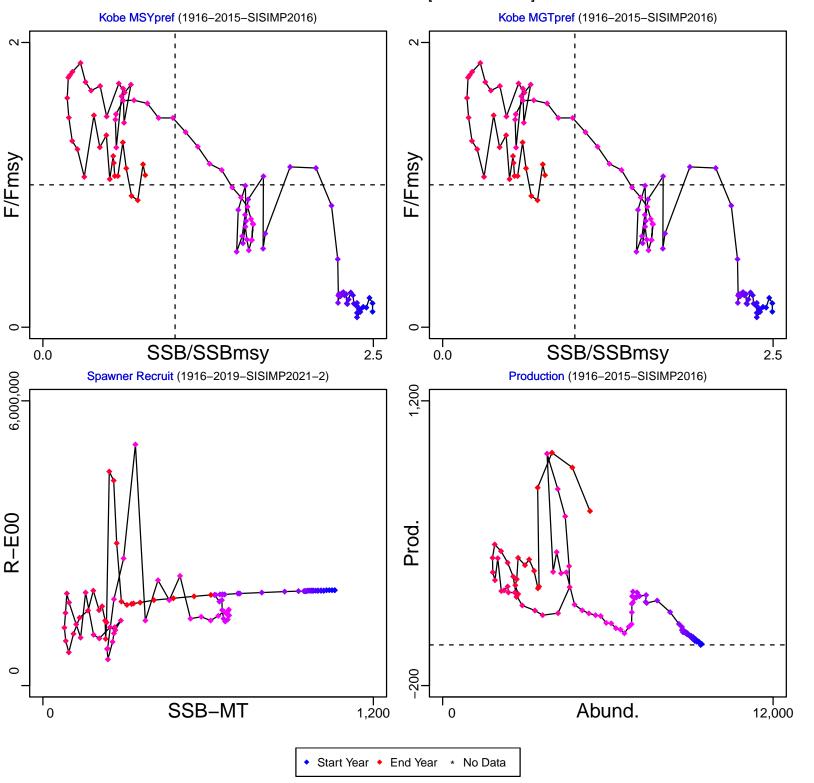
Blackgill rockfish Pacific Coast [BGROCKPCOAST]

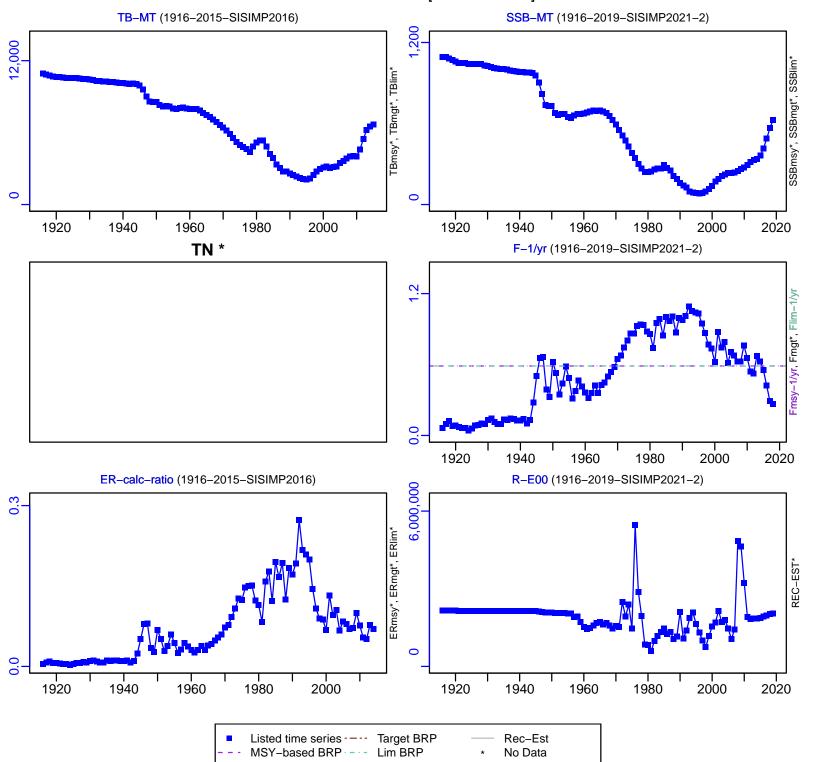


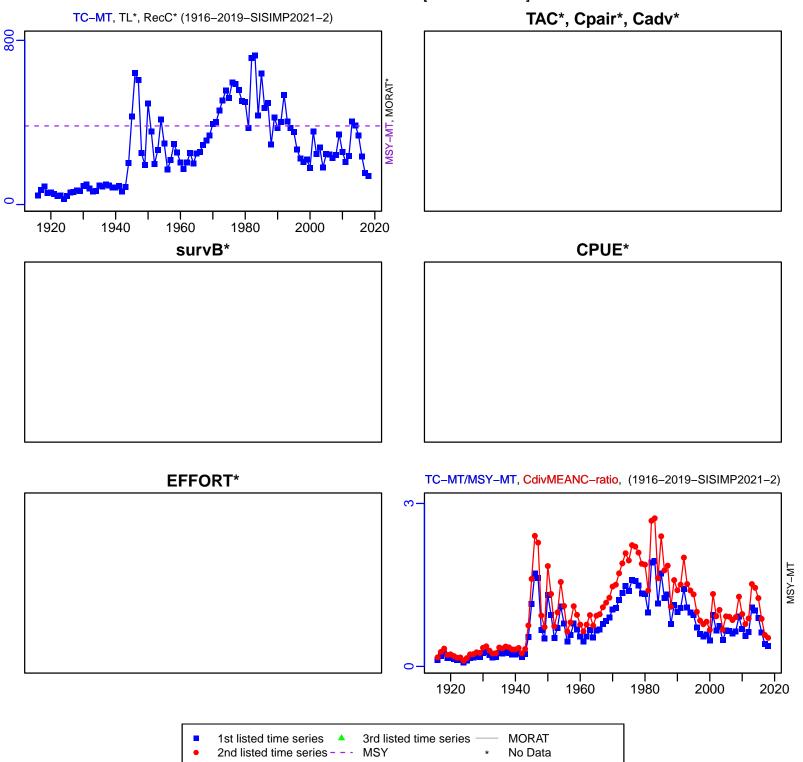
Metadata		
Scientific Name	Sebastes melanops	
Current Assess ID	SWFSC-BLACKROCKCAL-1916-2019-SISIMP2021-2	
Area	California	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Southwest Fisheries Science Center	
Asmts in RAM	2015, 2019	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	425
Fmsy	Fmsy-1/yr	2019	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	377
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	266
Flim	Flim-1/yr	2019	0.5
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5770	-	3+
SSB	SSB-MT	2019	610	-	-
TN	-	-	-	-	-
R	R-E00	2019	1,910,000	-	0
F	F-1/yr	2019	0.227	-	-
ER	ER-calc-ratio	2015	0.068	-	-
TC	TC-MT	2019	138		,,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.831		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.454		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







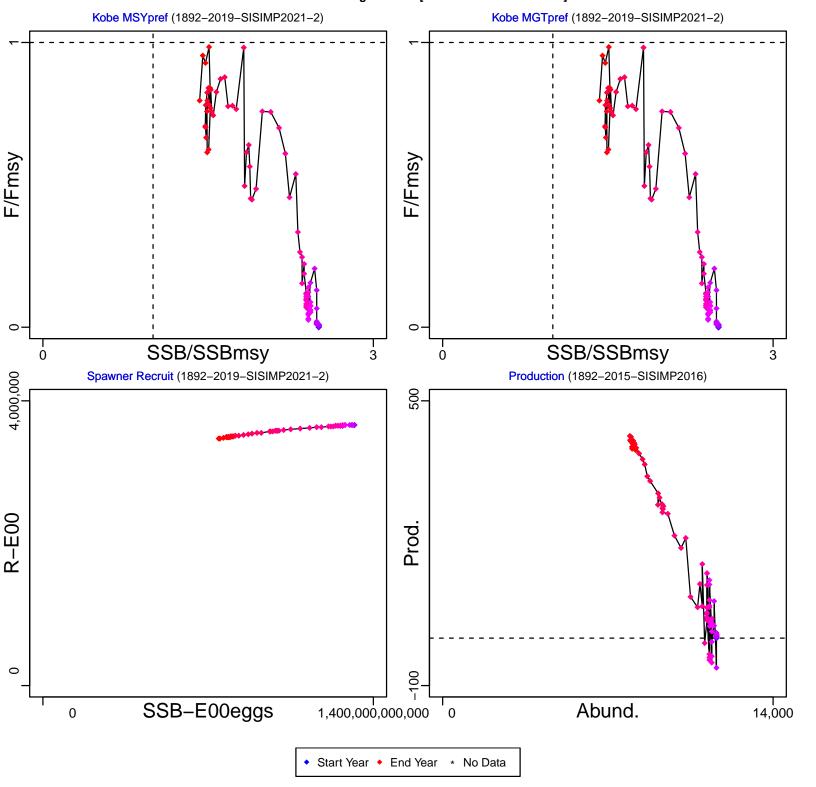
Black rockfish Oregon Coast [BLACKROCKORECOAST]

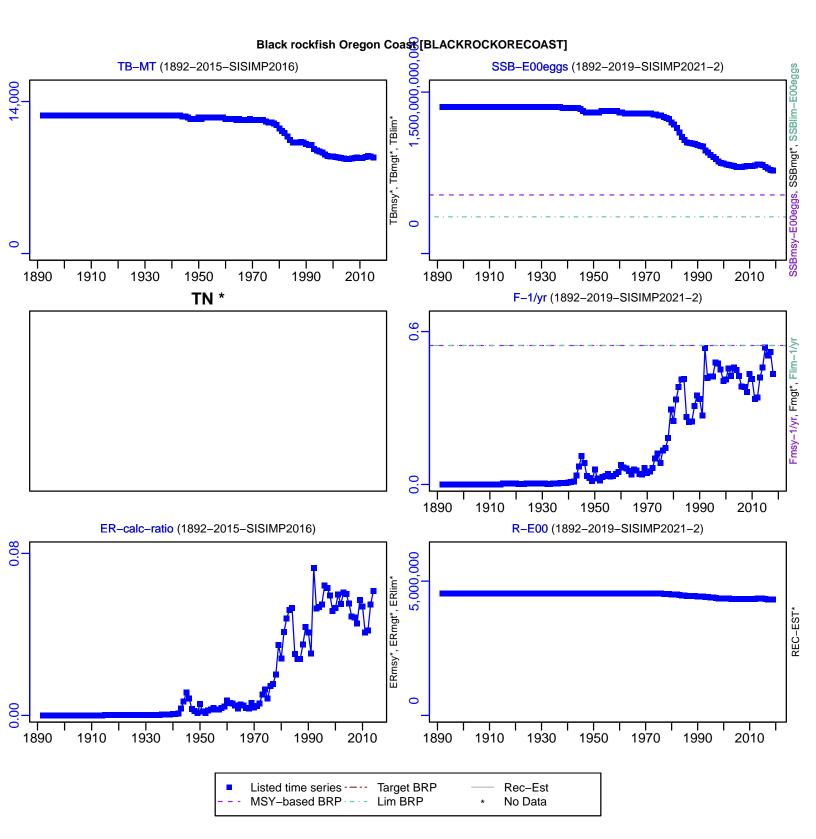
Metadata		
Scientific Name	Sebastes melanops	
Current Assess ID NWFSC-BLACKROCKORECOAST-1892-2019-SISIMP2021-		
Area	Oregon Coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2015, 2019	

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2019	5.27×10^{11}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	556	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2019	3.3×10^{11}	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

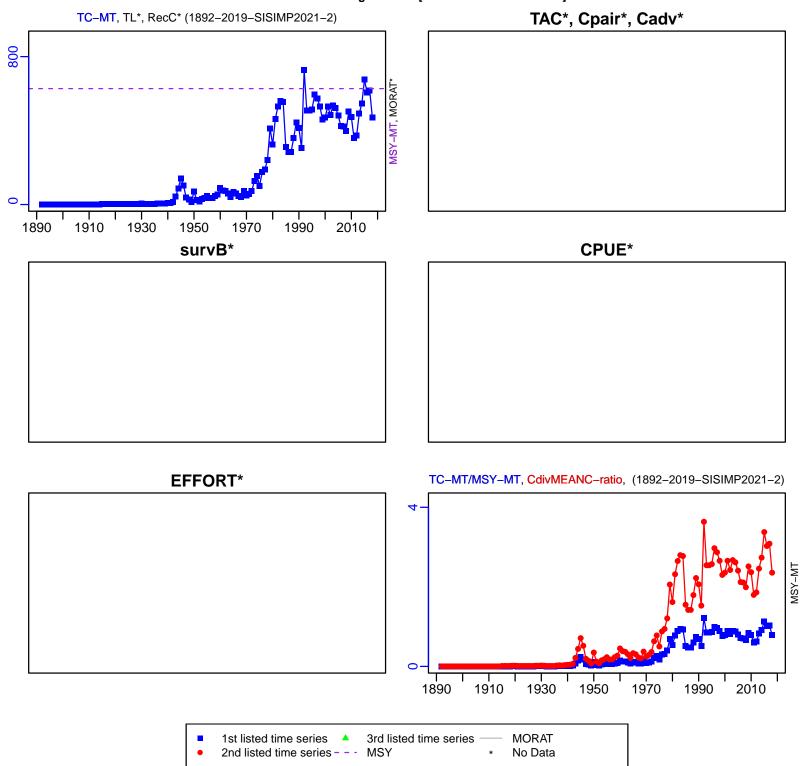
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	8060	-	3+
SSB	SSB-E00eggs	2019	7.45×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,470,000	-	0
F	F-1/yr	2019	0.398	-	-
ER	ER-calc-ratio	2015	0.06	-	-
TC	TC-MT	2019	418		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	1.414		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.796		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish Oregon Coast [BLACKROCKORECOAST]





Black rockfish Oregon Coast [BLACKROCKORECOAST]



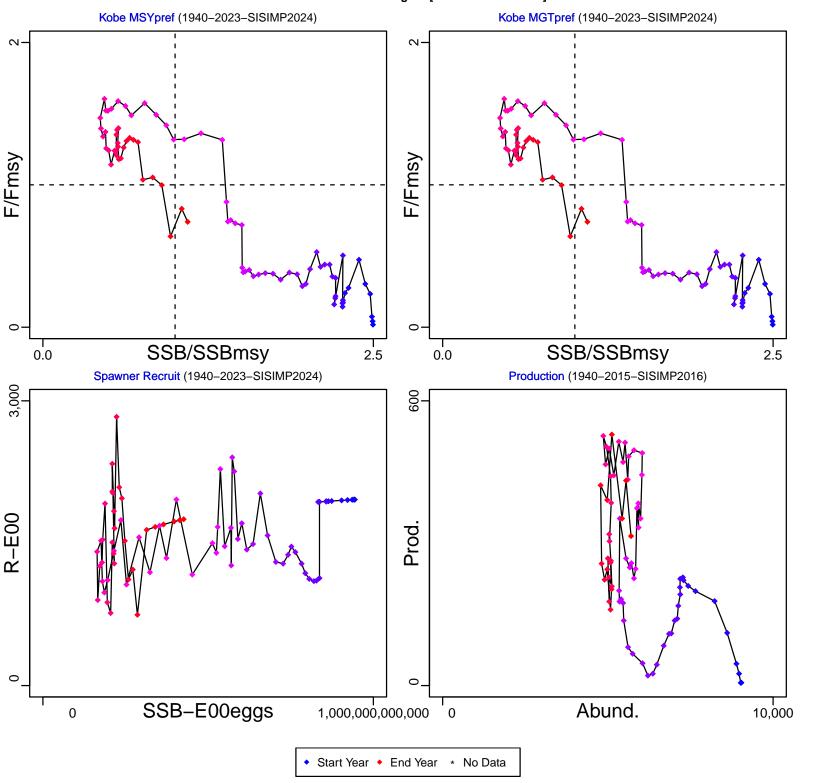
Black rockfish Washington [BLACKROCKWASH]

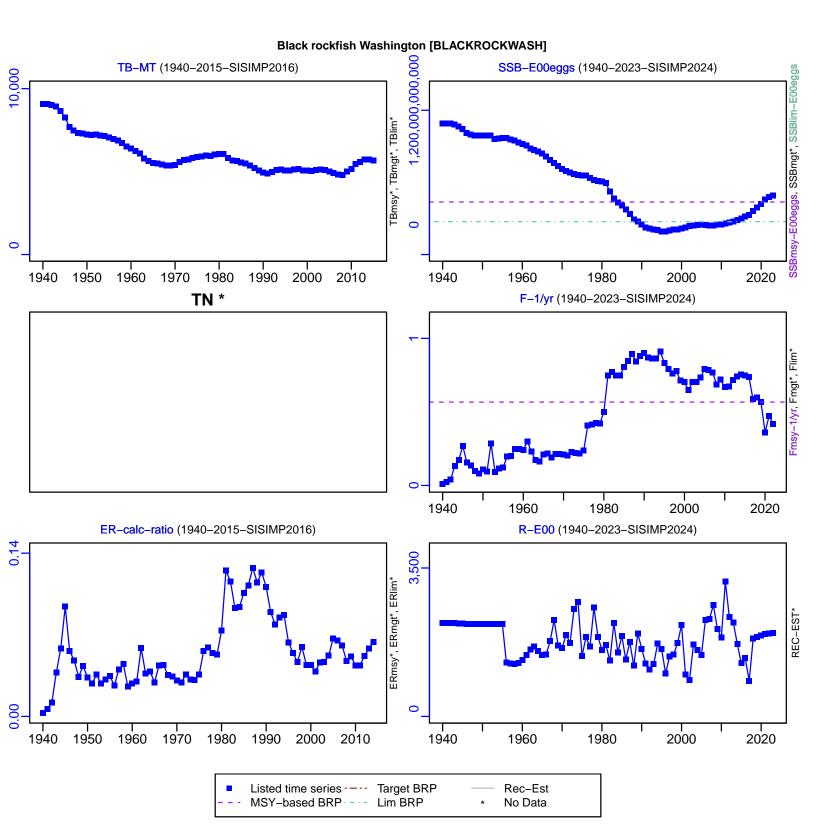
Metadata		
Scientific Name	Sebastes melanops	
Current Assess ID	NWFSC-BLACKROCKWASH-1940-2023-SISIMP2024	
Area	Washington	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2015, 2019, 2023	

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00eggs	2023	3.78×10^{11}
Fmsy	Fmsy-1/yr	2023	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2023	294
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2023	2.36×10^{11}
Flim	Flim-1/yr	2019	0.5
ERlim	-	-	-

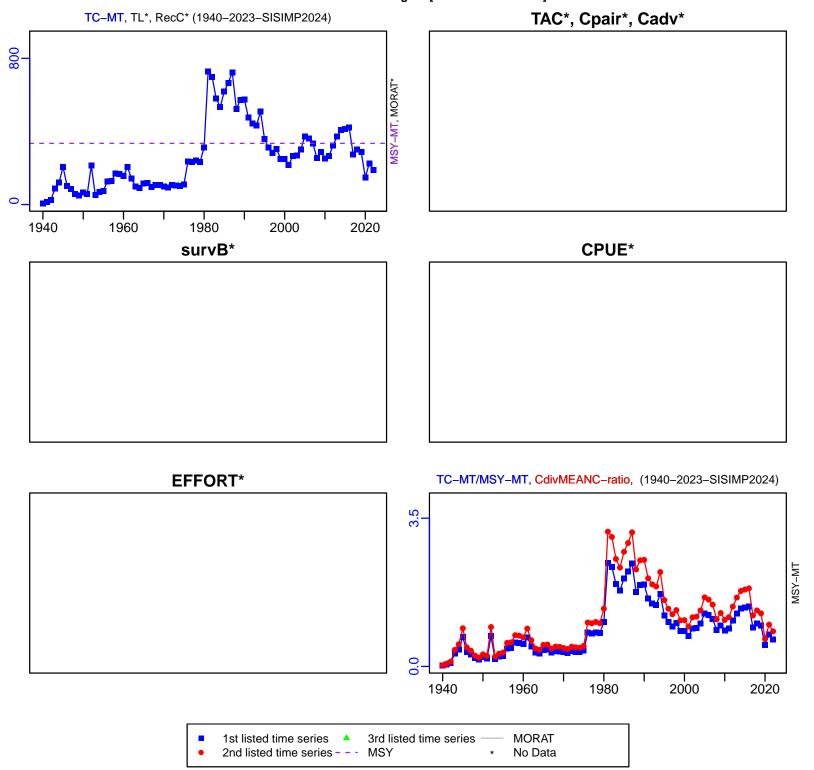
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5640	-	3+
SSB	SSB-E00eggs	2023	4.26×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2023	1753	-	0
F	F-1/yr	2023	0.37	-	-
ER	ER-calc-ratio	2015	0.063	-	-
TC	TC-MT	2023	166		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2023	1.127		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.74		
ER/ERmsy	1	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish Washington [BLACKROCKWASH]





Black rockfish Washington [BLACKROCKWASH]



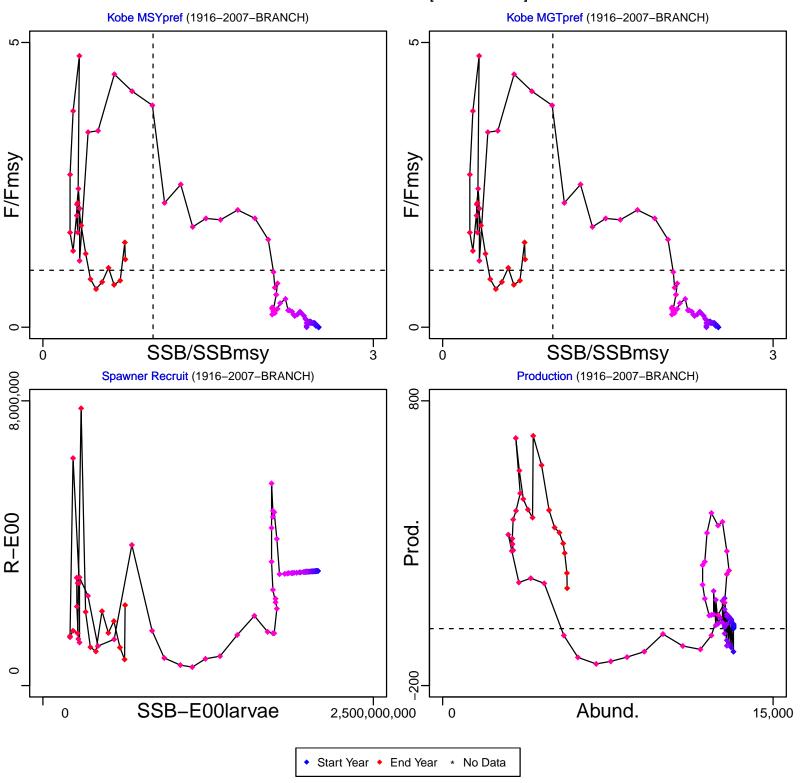
Blue rockfish California [BLUEROCKCAL]

Metadata		
Scientific Name	Sebastes mystinus	
Current Assess ID	NWFSC-BLUEROCKCAL-1916-2007-BRANCH	
Area	California	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2007	

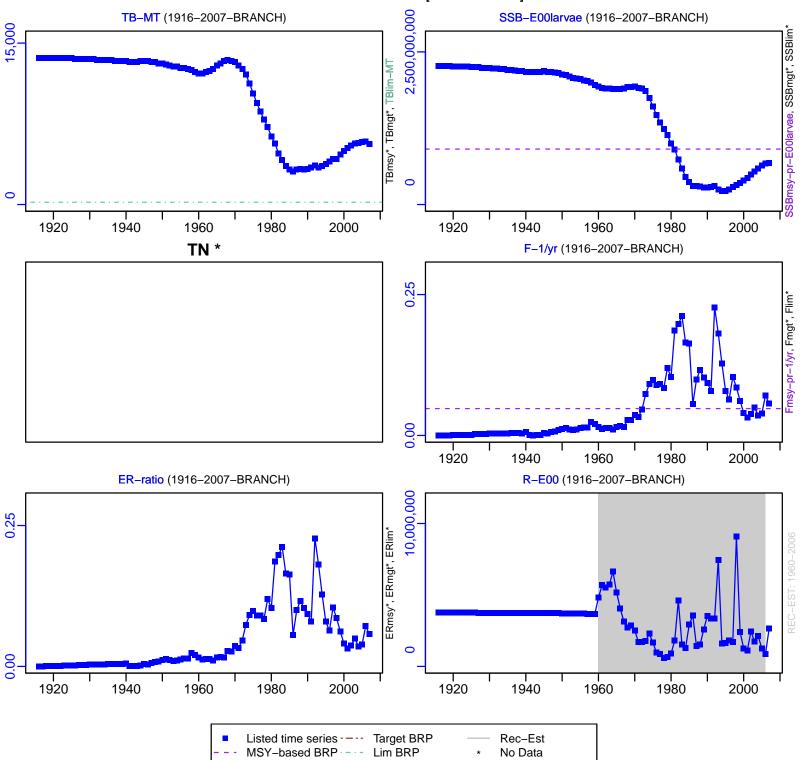
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-pr-E00larvae	2007	8.31×10^{8}	
Fmsy	Fmsy-pr-1/yr	2007	0.04	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2007	13,223	
SSB0	SSB0-MT	2007	2077	
MSY	MSY-MT	2007	275	
M	M-1/yr	2007	0.12	
TBlim	TBlim-MT	2007	205	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	5450	-	1+
SSB	SSB-E00larvae	2007	6.22×10^{8}	Females	6+
TN	-	-	-	-	-
R	R-E00	2007	2,260,000	-	0
F	F-1/yr	2007	0.048	Both	1+
ER	ER-ratio	2007	0.048	-	-
TC	TC-MT	2007	263		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-pr-E00larvae	2007	0.748		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2007	1.191		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

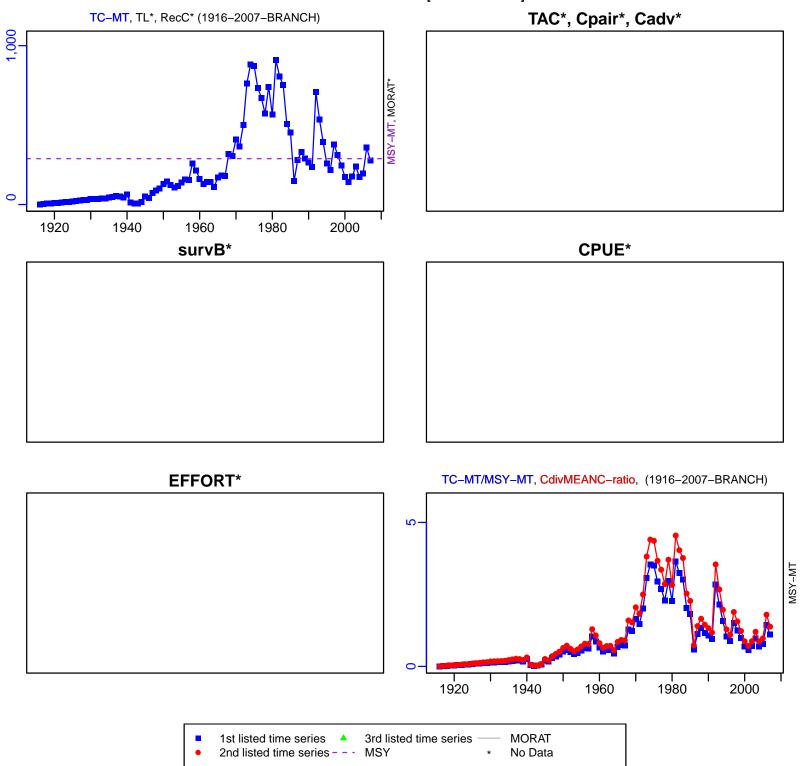
Blue rockfish California [BLUEROCKCAL]



Blue rockfish California [BLUEROCKCAL]



Blue rockfish California [BLUEROCKCAL]



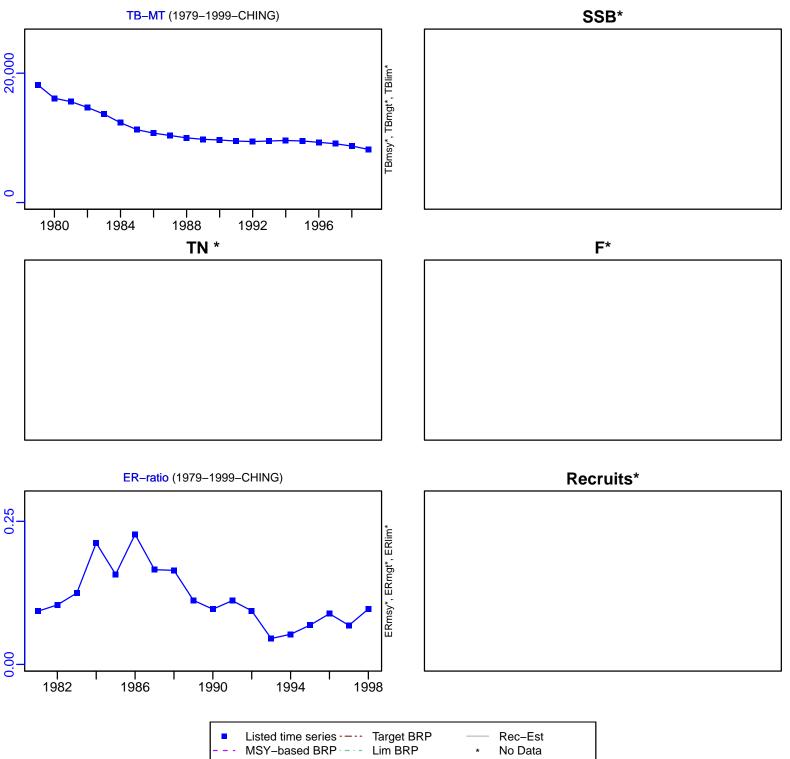
Metadata			
Scientific Name	Sebastes rufus		
Current Assess ID PFMC-BNKROCKCAL-1979-1999-CHING			
Area California			
Management Authority National Marine Fisheries Service, US national management			
Assessor Pacific Fishery Management Council			
Asmts in RAM	1999		

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

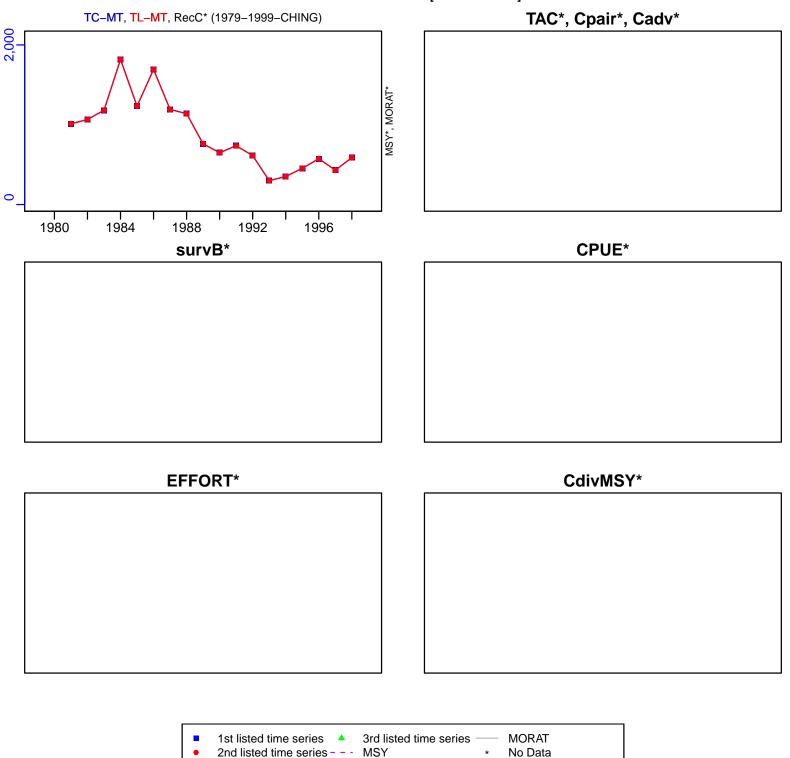
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	1999	6380	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	1999	0.083	-	-
TC	TC-MT	1999	562		
TL	TL-MT	1999	562		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



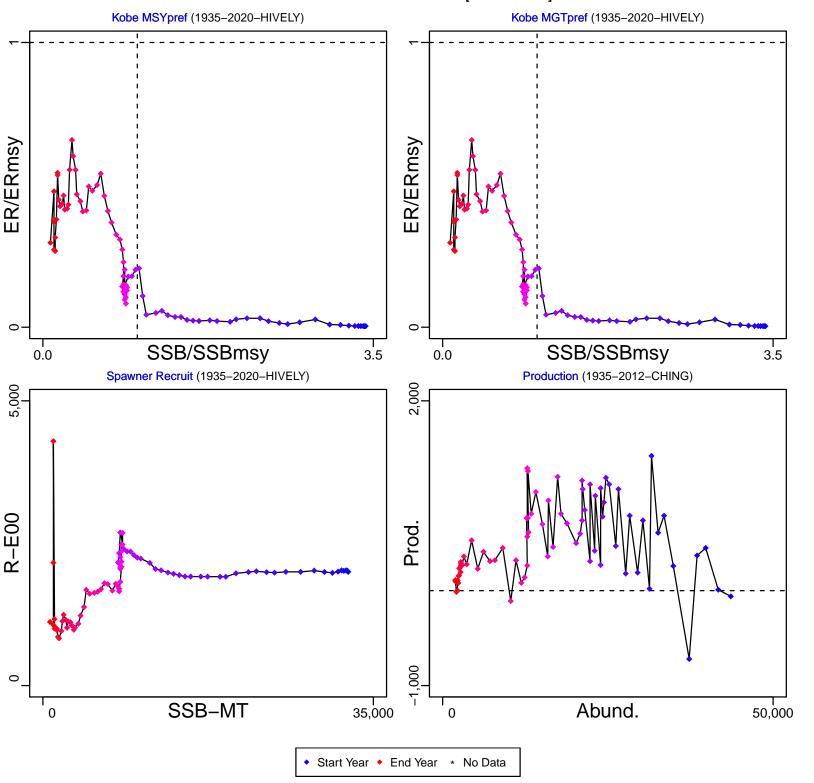
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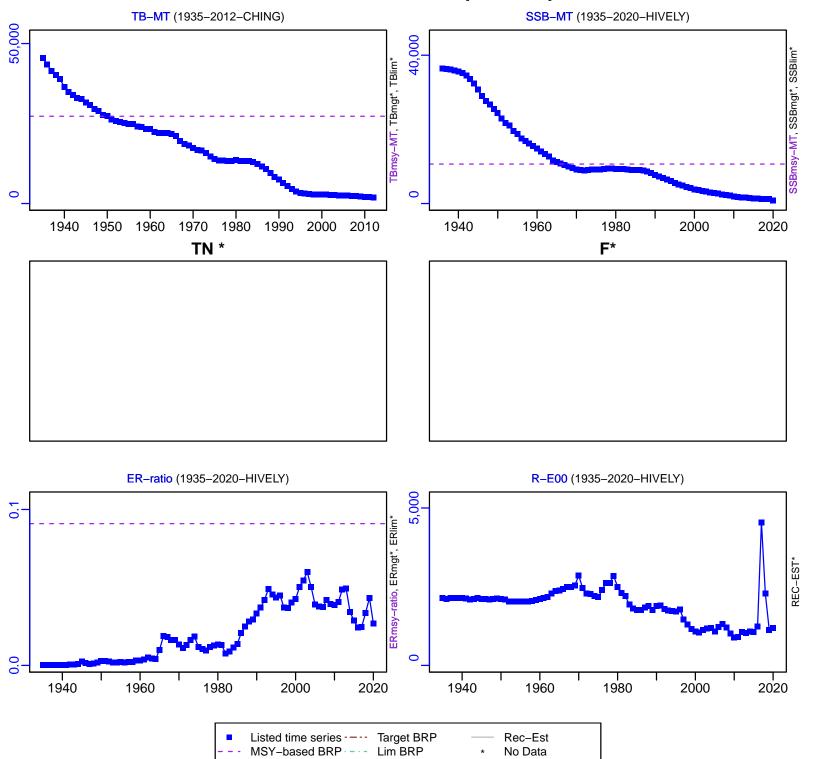


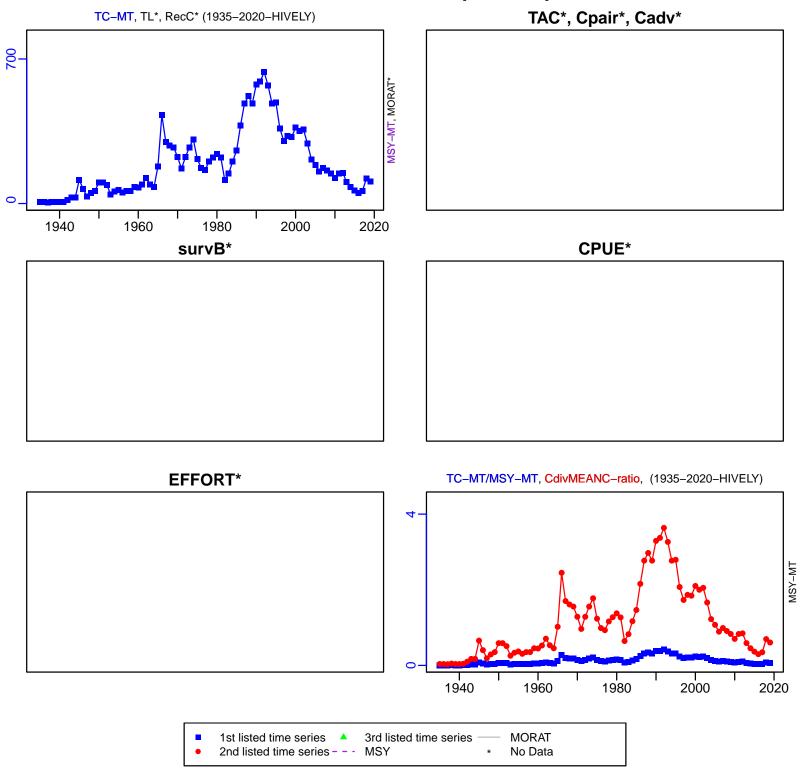
Metadata			
Scientific Name	Sebastes paucispinis		
Current Assess ID	DFO-PAC-BOCACCBCW-1935-2020-HIVELY		
Area	British Columbia Waters		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Pacific Region		
Asmts in RAM	2012, 2020		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2020	17,188		
SSBmsy	SSBmsy-MT	2020	9462		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2020	0.085		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2020	1461		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	ID Asmt Year Curr Value				
ТВ	TB-MT	2012	1880	-	-	
SSB	SSB-MT	2020	751	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	1117	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2020	0.025	-	-	
TC	TC-MT	2020	92		,	
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-MT	2012	0.072			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.079			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.297			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



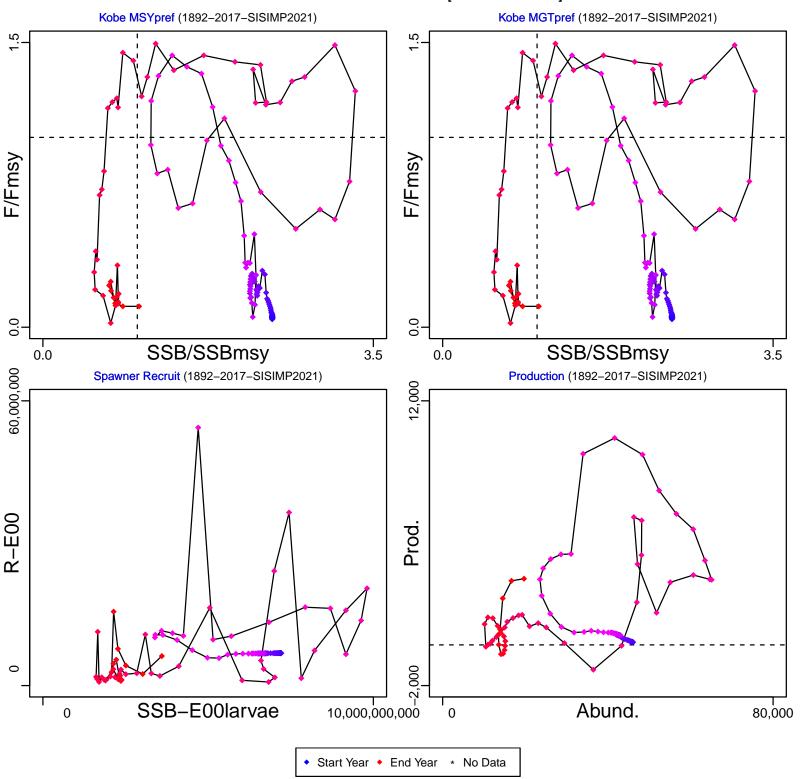


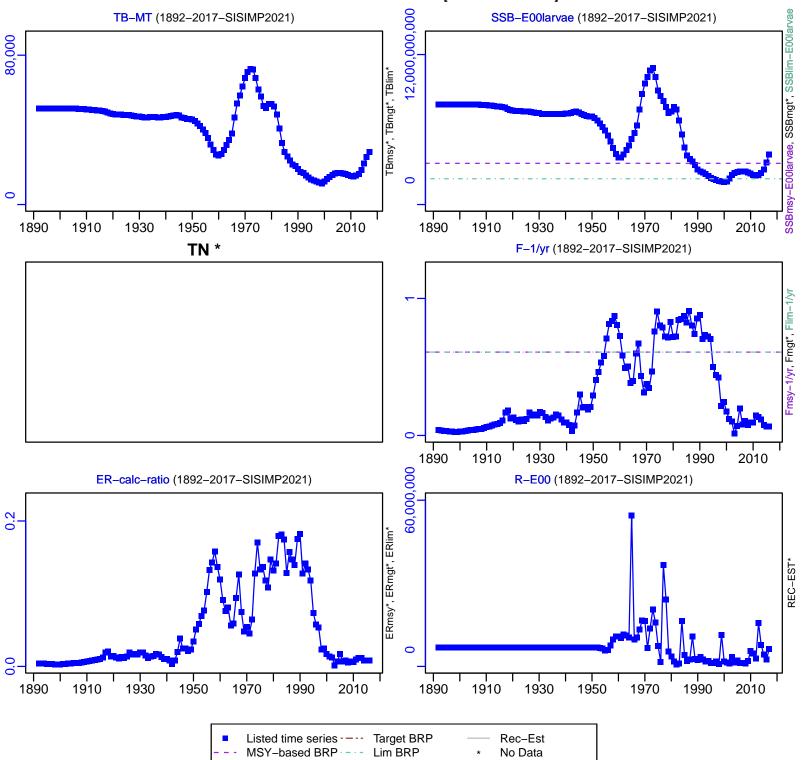


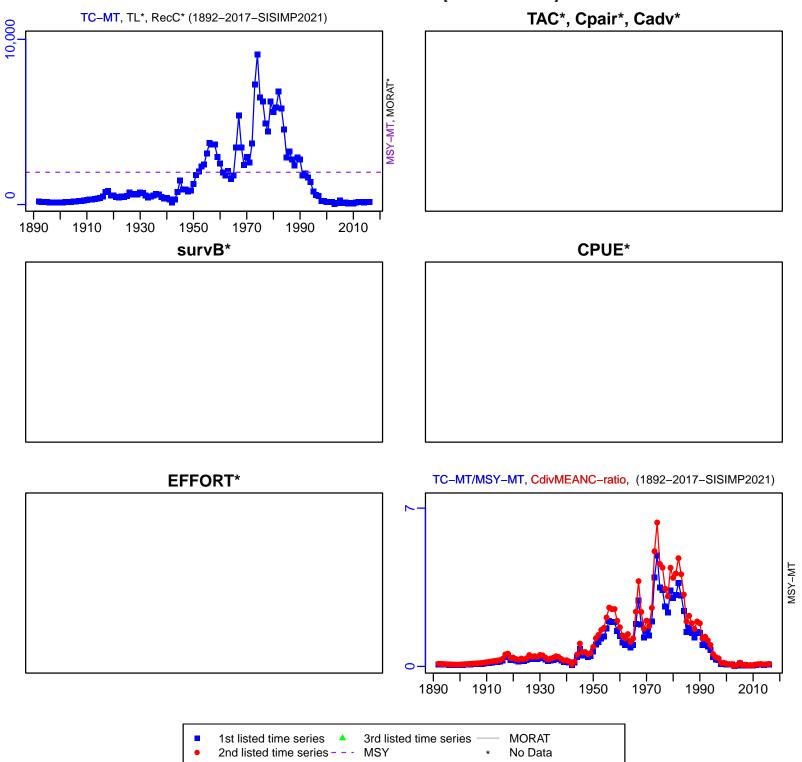
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Scientific Name	Sebastes paucispinis		
Current Assess ID SWFSC-BOCACCSPCOAST-1892-2017-SISIMP2021			
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2009, 2017, 2013		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-E00larvae	2017	2,964,399,902		
Fmsy	Fmsy-1/yr	2017	0.5		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2009	44,070		
SSB0	-	-	-		
MSY	MSY-MT	2017	1934		
М	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-E00larvae	2017	1,852,750,000		
Flim	Flim-1/yr	2017	0.5		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	25,293	-	-
SSB	SSB-E00larvae	2017	3.6×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2017	6,220,000	-	0
F	F-1/yr	2017	0.055	-	-
ER	ER-calc-ratio	2017	0.007	-	-
TC	TC-MT	2017	157		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae	2017	1.214		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.11		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



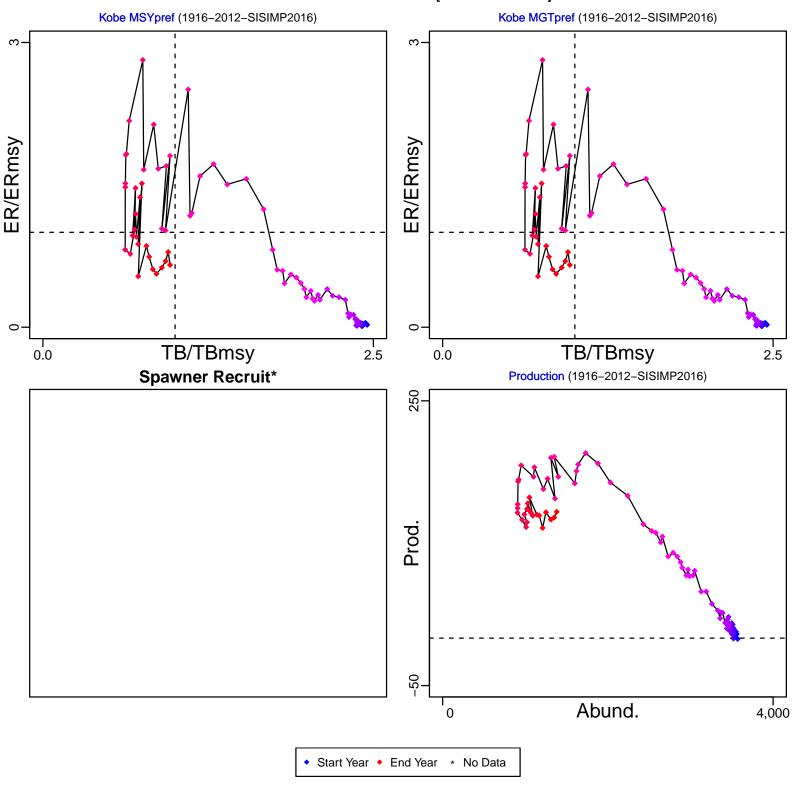


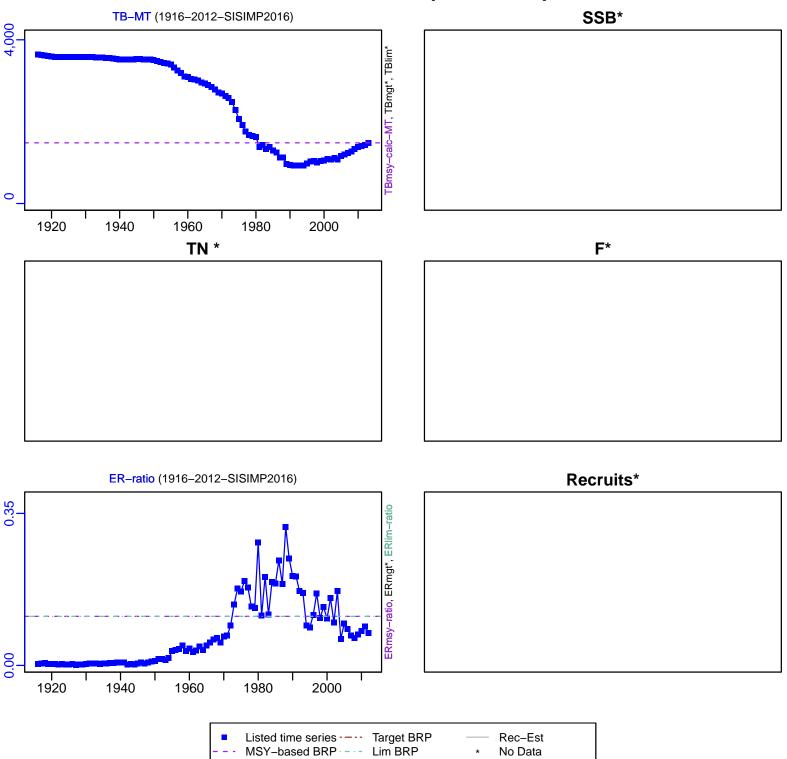


Metadata			
Scientific Name	Sebastes auriculatus		
Current Assess ID	SWFSC-BRNROCKPCOAST-1916-2012-SISIMP2016		
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national manager			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2012		

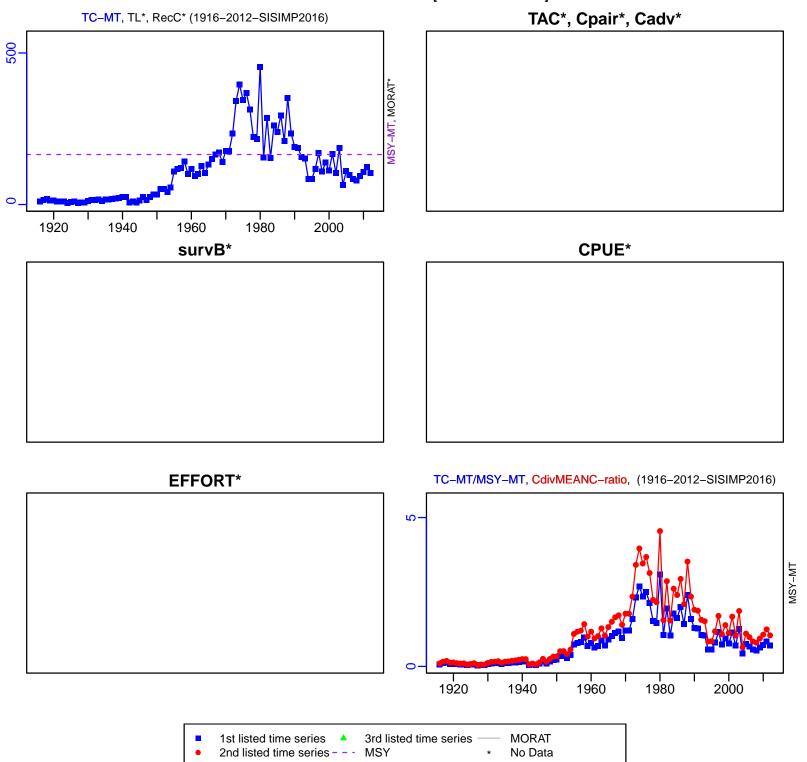
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2012	1455		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.103		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2012	150		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	ERlim-ratio	2012	0.103		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	1450	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.068	-	-
TC	TC-MT	2012	95		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.996		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.656		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



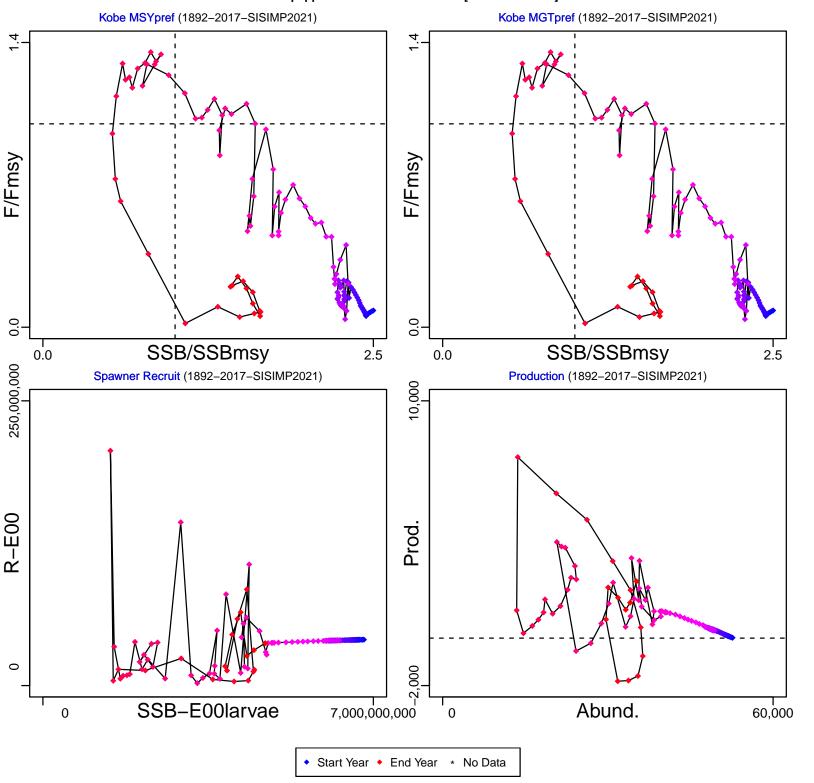
Chilipepper Southern Pacific Coast [CHILISPCOAST]

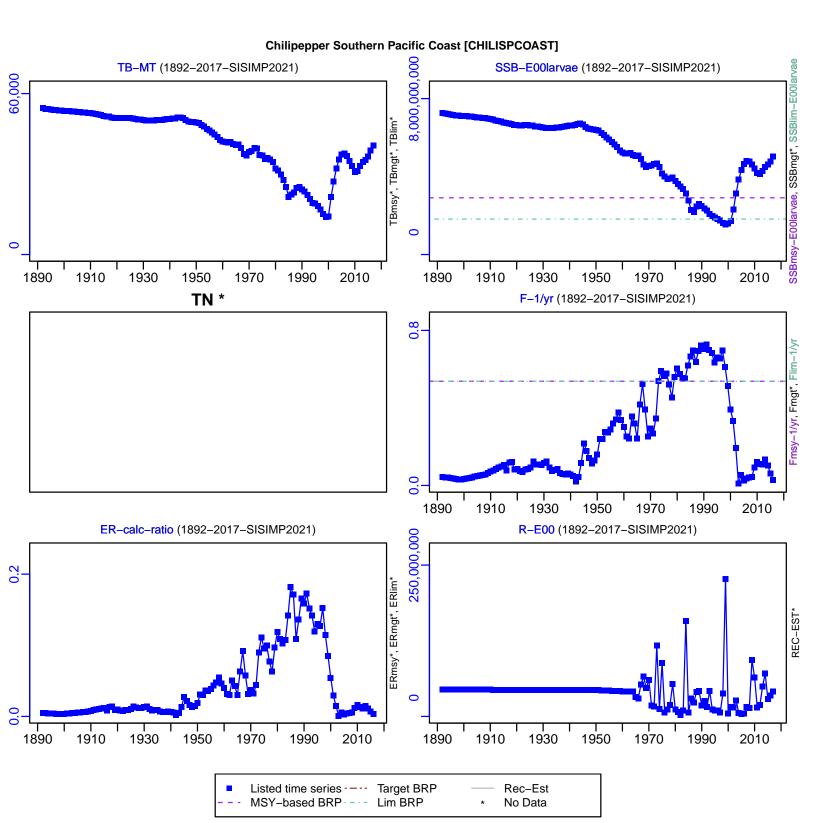
Metadata				
Scientific Name	Sebastes goodei			
Current Assess ID	SWFSC-CHILISPCOAST-1892-2017-SISIMP2021			
Area Southern Pacific Coast				
Management Authority National Marine Fisheries Service, US national manager				
Assessor Southwest Fisheries Science Center				
Asmts in RAM	2007, 2015, 2017			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	19,321	
SSBmsy	SSBmsy-E00larvae	2017	2.72×10^{9}	
Fmsy	Fmsy-1/yr	2017	0.5	
ERmsy	ERmsy-ratio	2007	0.112	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2007	45,057	
SSB0	SSB0-MT	2007	33,390	
MSY	MSY-MT	2017	2064	
M	M-1/yr	2007	0.16	
TBlim	TBlim-MT	2007	8666	
SSBlim	SSBlim-E00larvae	2017	1.7×10^9	
Flim	Flim-1/yr	2017	0.5	
ERlim	-	-	-	

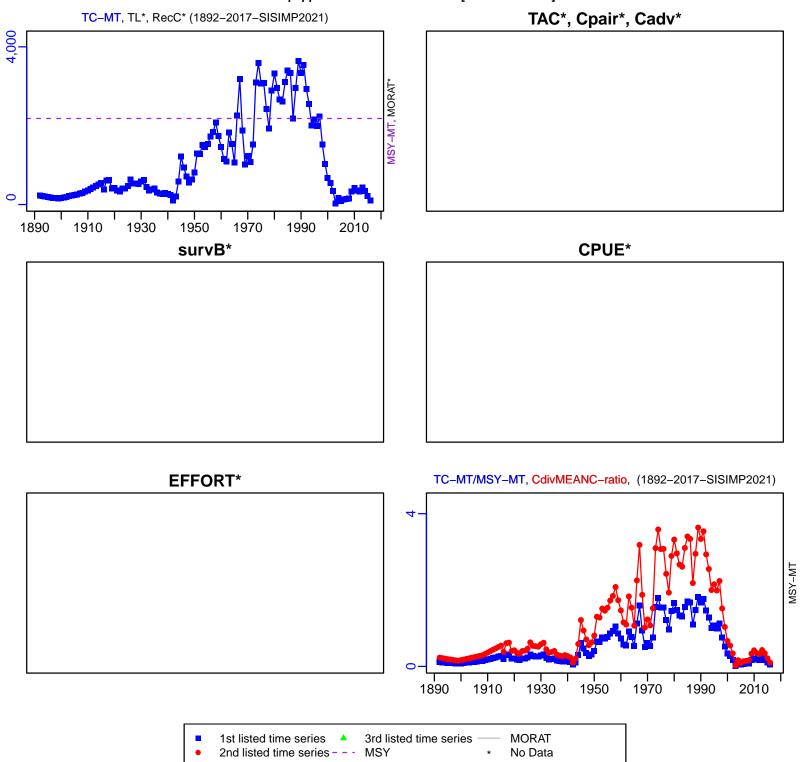
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	39,163	-	-
SSB	SSB-E00larvae	2017	4.71×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2017	37,210,400	-	0
F	F-1/yr	2017	0.027	-	-
ER	ER-calc-ratio	2017	0.003	-	-
TC	TC-MT	2017	97		
TL	-	-	-]	
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.739		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae	2017	1.732		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.055		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.035		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Chilipepper Southern Pacific Coast [CHILISPCOAST]





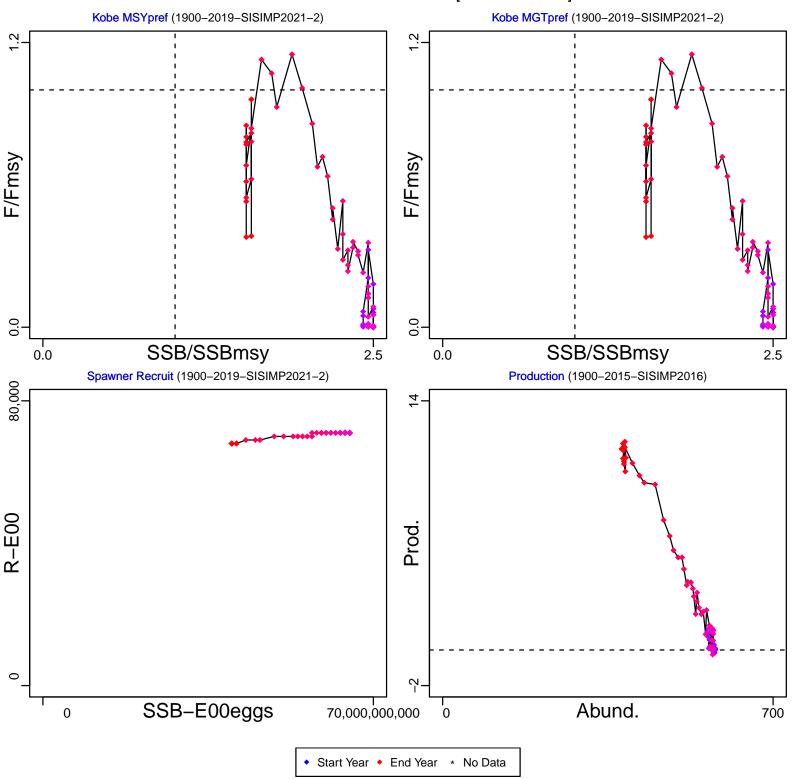
Chilipepper Southern Pacific Coast [CHILISPCOAST]

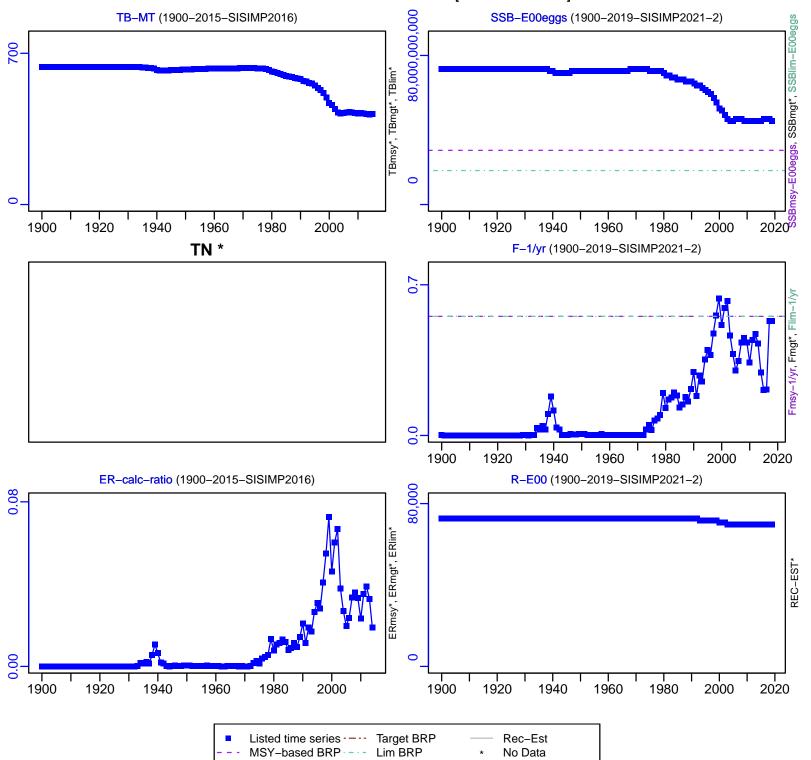


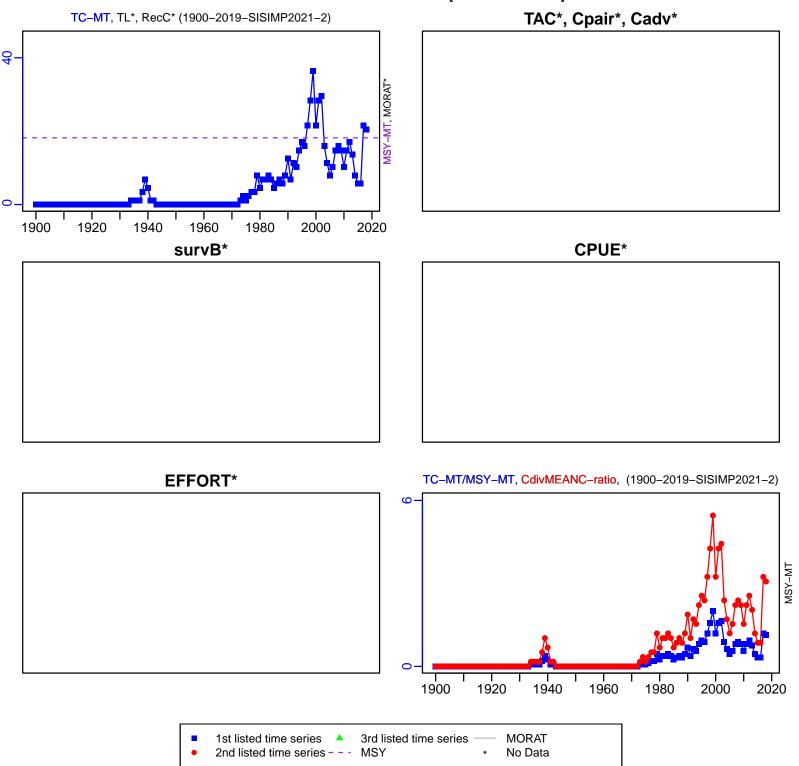
Metadata				
Scientific Name	Sebastes nebulosus			
Current Assess ID	NWFSC-CHROCKCPCOAST-1900-2019-SISIMP2021-2			
Area	Central Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2015, 2019			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2019	2.6×10^{10}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	16	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2019	1.63×10^{10}	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	381	-	5+
SSB	SSB-E00eggs	2019	4×10^{10}	-	-
TN	-	-	-	-	-
R	R-E00	2019	68,000	-	0
F	F-1/yr	2019	0.48	-	-
ER	ER-calc-ratio	2015	0.019	-	-
TC	TC-MT	2019	18		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	1.538		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.96		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



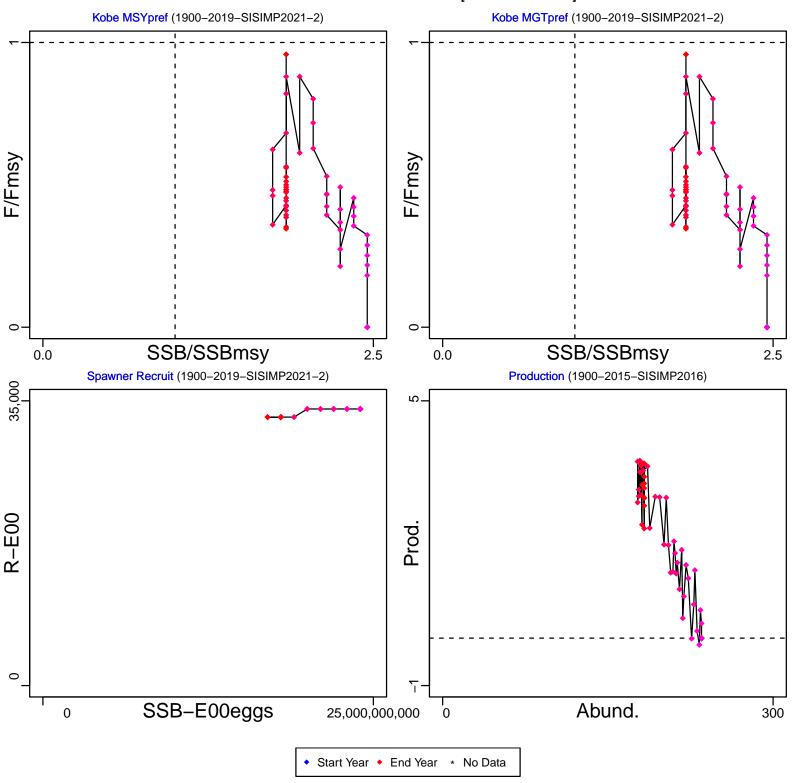


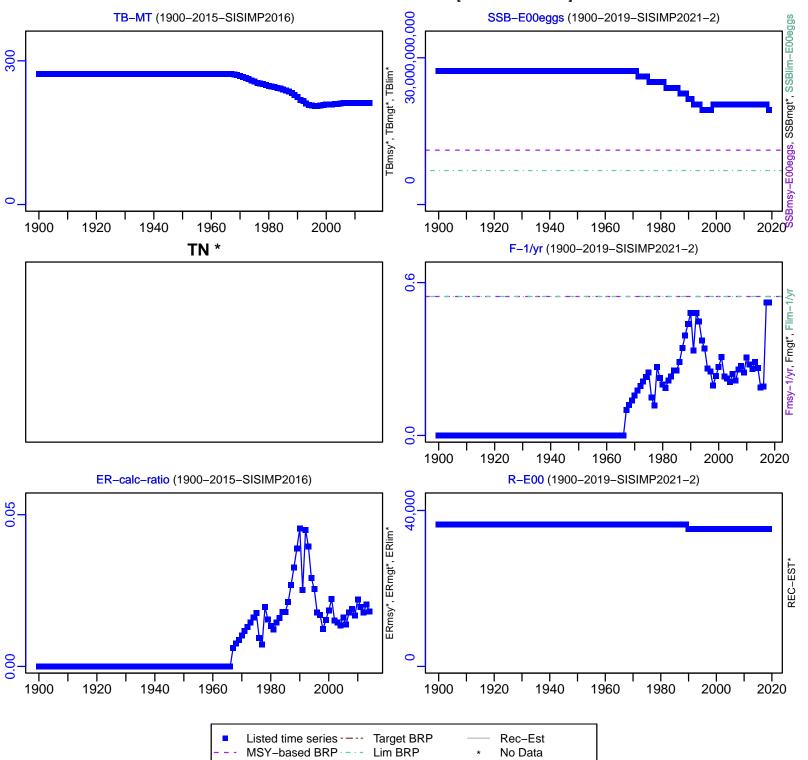


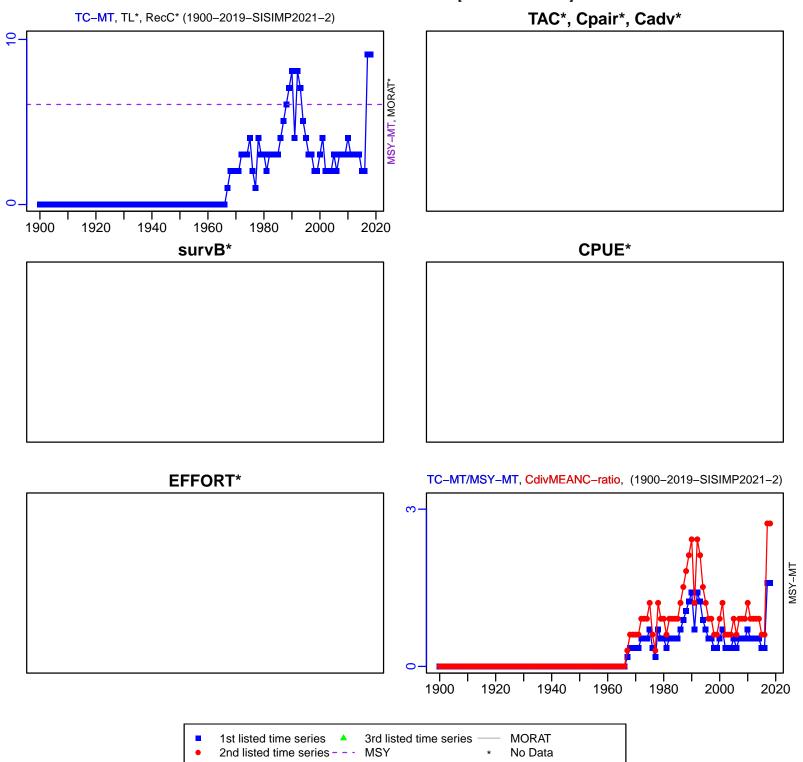
Metadata				
Scientific Name	Sebastes nebulosus			
Current Assess ID	SWFSC-CHROCKNPCOAST-1900-2019-SISIMP2021-2			
Area	Northern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor Southwest Fisheries Science Center				
Asmts in RAM	2015, 2019			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2019	9.78×10^{9}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	6	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2019	6.11×10^{9}	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	183	-	5+
SSB	SSB-E00eggs	2019	1.7×10^{10}	-	-
TN	-	-	-	-	-
R	R-E00	2019	33,000	-	0
F	F-1/yr	2019	0.479	-	-
ER	ER-calc-ratio	2015	0.017	-	-
TC	TC-MT	2019	9		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	1.738		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.958		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



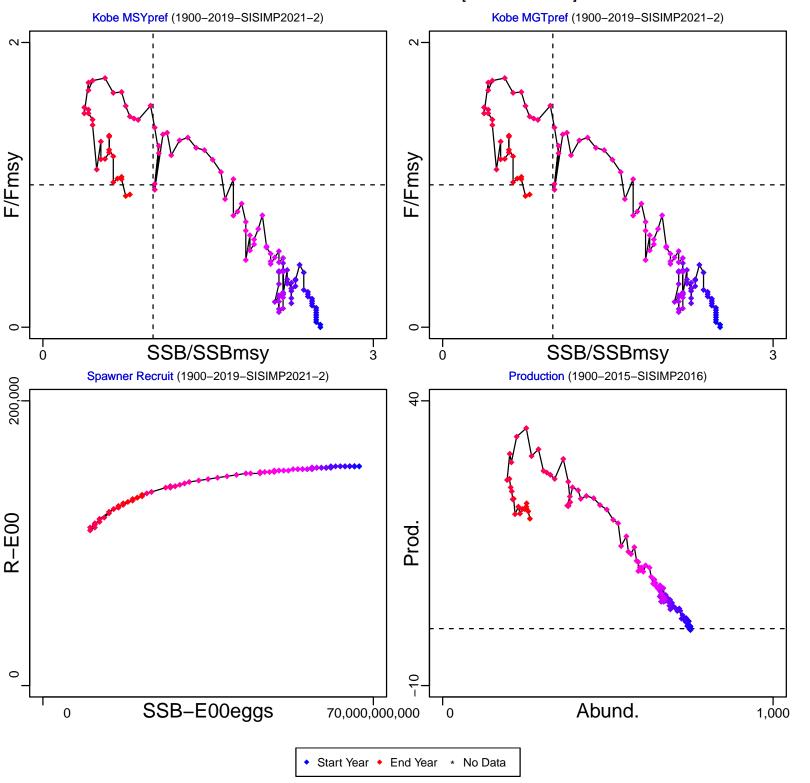


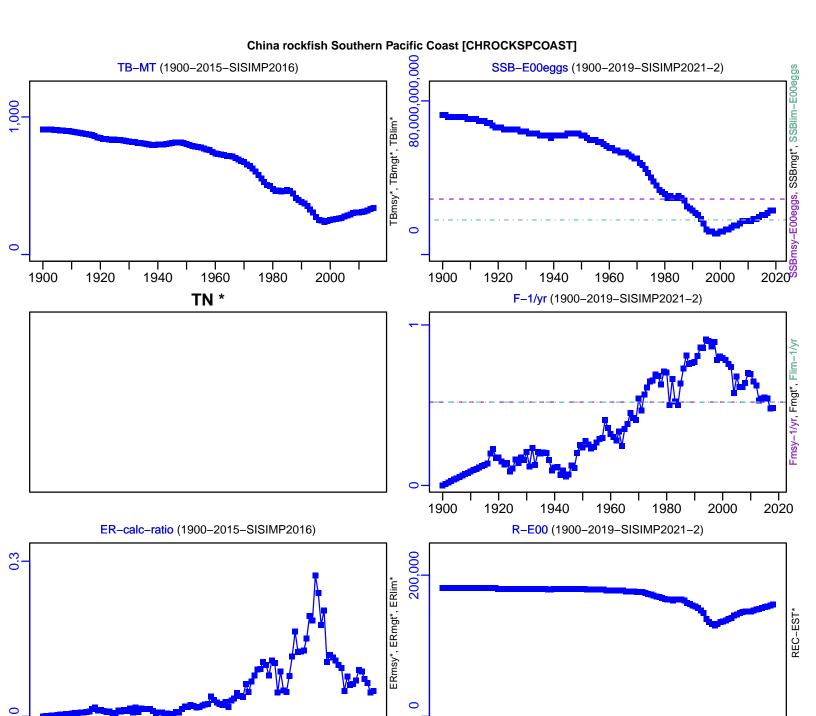


Metadata				
Scientific Name	Sebastes nebulosus			
Current Assess ID	NWFSC-CHROCKSPCOAST-1900-2019-SISIMP2021-2			
Area	Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center				
Asmts in RAM	2015, 2019			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2019	2.66×10^{10}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	21	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2019	1.66×10^{10}	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

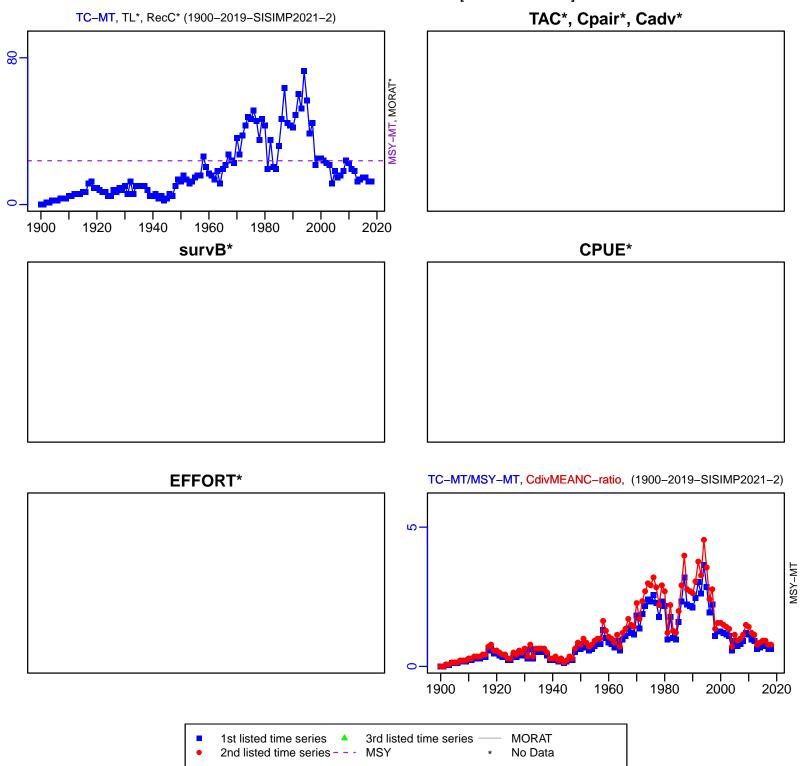
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	280	-	5+	
SSB	SSB-E00eggs	2019	2.1×10^{10}	-	-	
TN	-	-	-	-	-	
R	R-E00	2019	134,000	-	0	
F	F-1/yr	2019	0.466	-	-	
ER	ER-calc-ratio	2015	0.046	-	-	
TC	TC-MT	2019	11			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	0.789			
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.932			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





Rec-Est No Data

Listed time series ---- Target BRP MSY-based BRP ---- Lim BRP

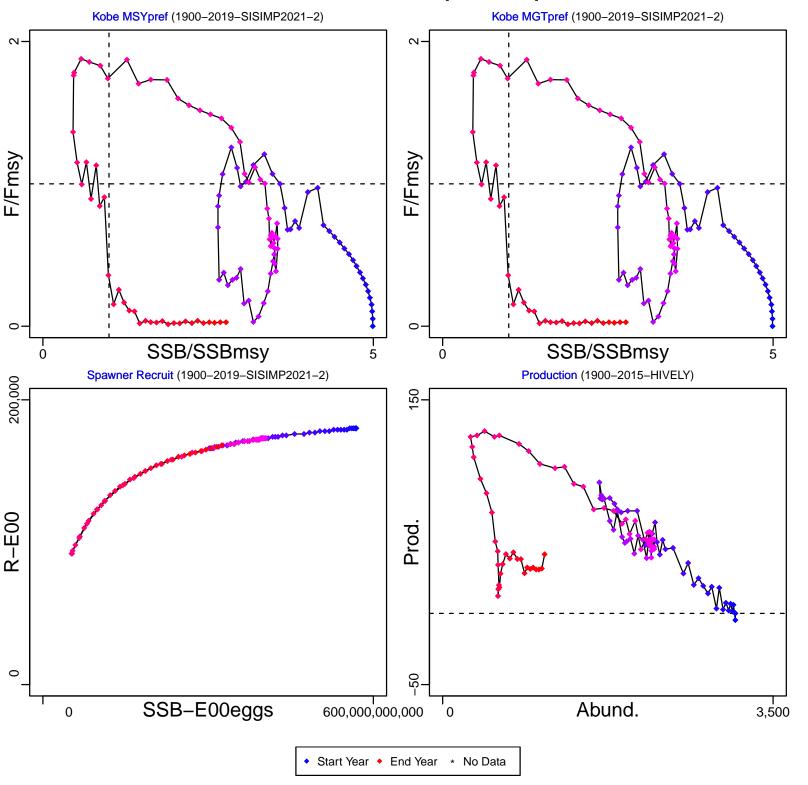


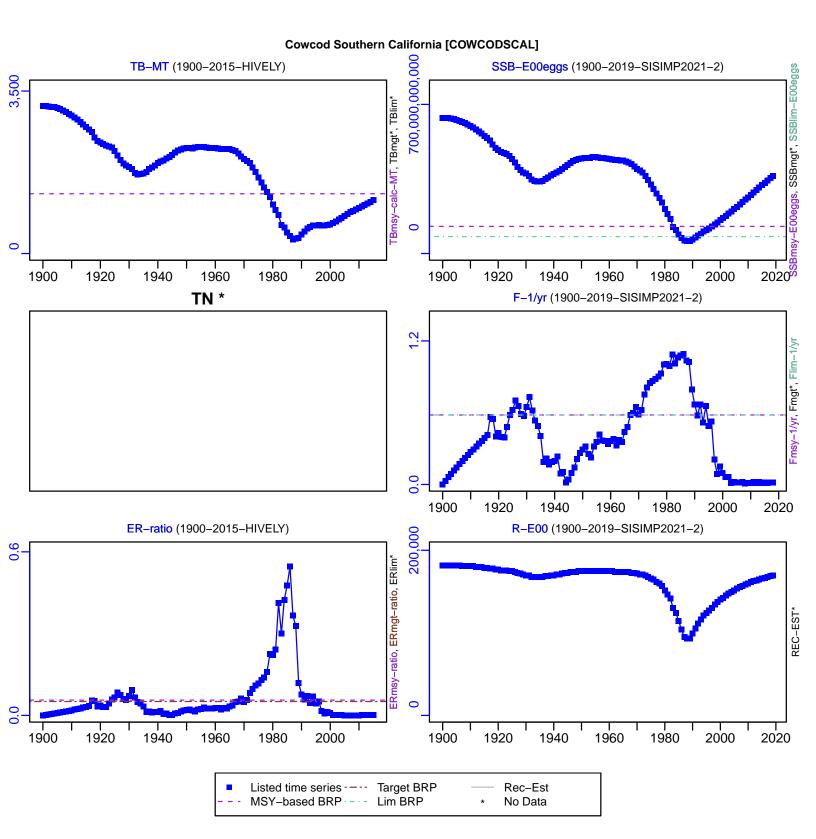
Cowcod Southern California [COWCODSCAL]

Metadata				
Scientific Name Sebastes levis				
Current Assess ID	PFMC-COWCODSCAL-1900-2019-SISIMP2021-2			
Area	Southern California			
Management Authority	National Marine Fisheries Service, US national management			
Assessor Pacific Fishery Management Council				
Asmts in RAM	2015, 2019, 2012			

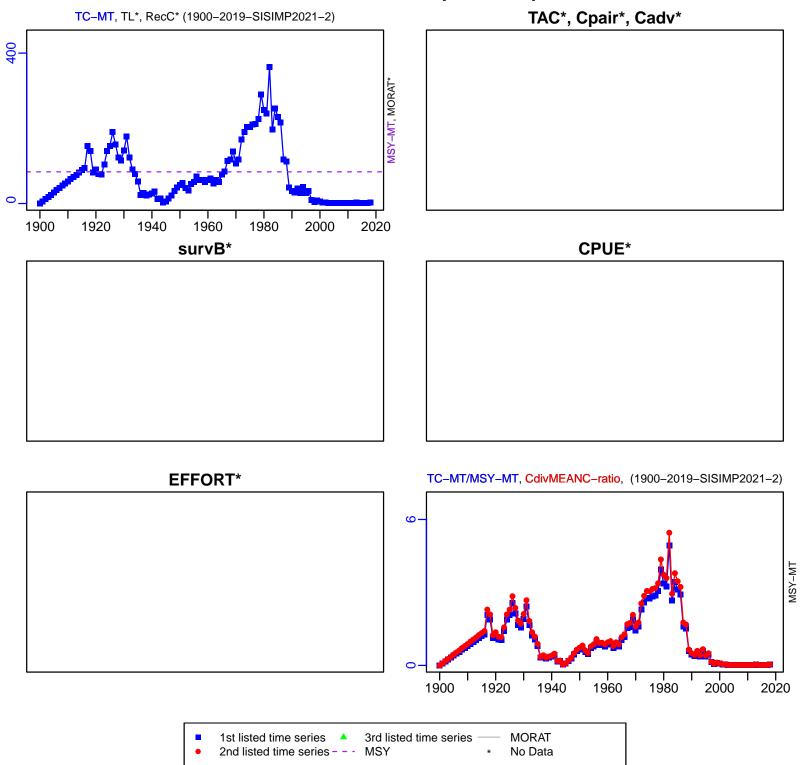
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2015	1255		
SSBmsy	SSBmsy-E00eggs	2019	1.14×10^{11}		
Fmsy	Fmsy-1/yr	2019	0.5		
ERmsy	ERmsy-ratio	2015	0.055		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2015	620		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2015	0.05		
TB0	TB0-MT	2015	3099		
SSB0	SSB0-MT	2015	1549		
MSY	MSY-MT	2019	76		
M	M-1/yr	2015	0.06		
TBlim	-	-	-		
SSBlim	SSBlim-E00eggs	2019	7.11×10^{10}		
Flim	Flim-1/yr	2019	0.5		
ERlim	ERlim-ratio	2012	0.05		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	1120	-	11+	
SSB	SSB-E00eggs	2019	3.25×10^{11}	-	-	
TN	-	-	-	-	-	
R	R-E00	2019	168,000	-	0	
F	F-1/yr	2019	0.014	-	-	
ER	ER-ratio	2015	0.001	-	-	
TC	TC-MT	2019	2			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2015	0.893			
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	2.851			
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.028			
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.018			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.902			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





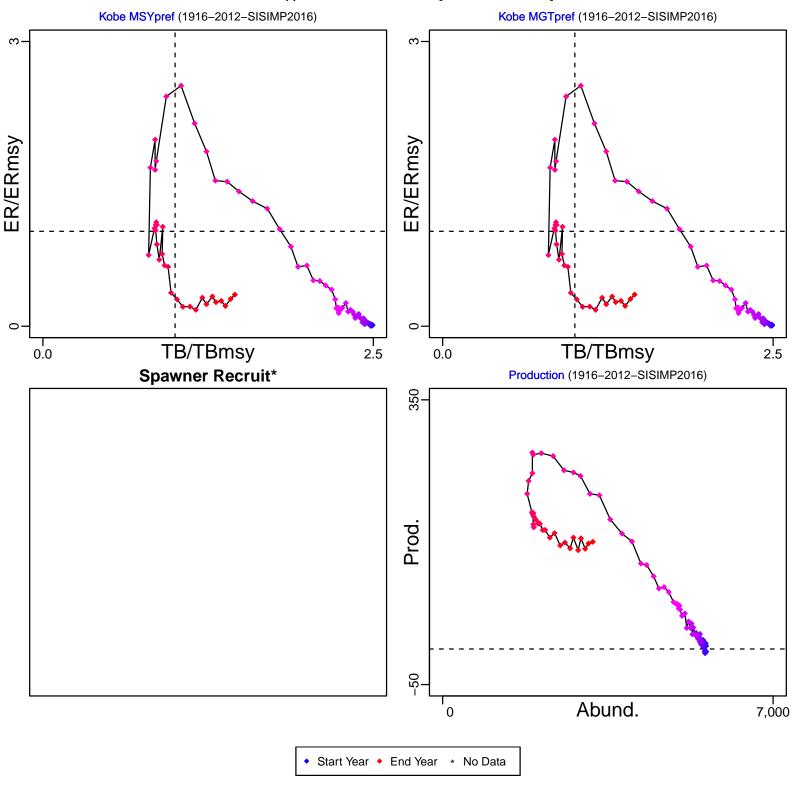
Cowcod Southern California [COWCODSCAL]

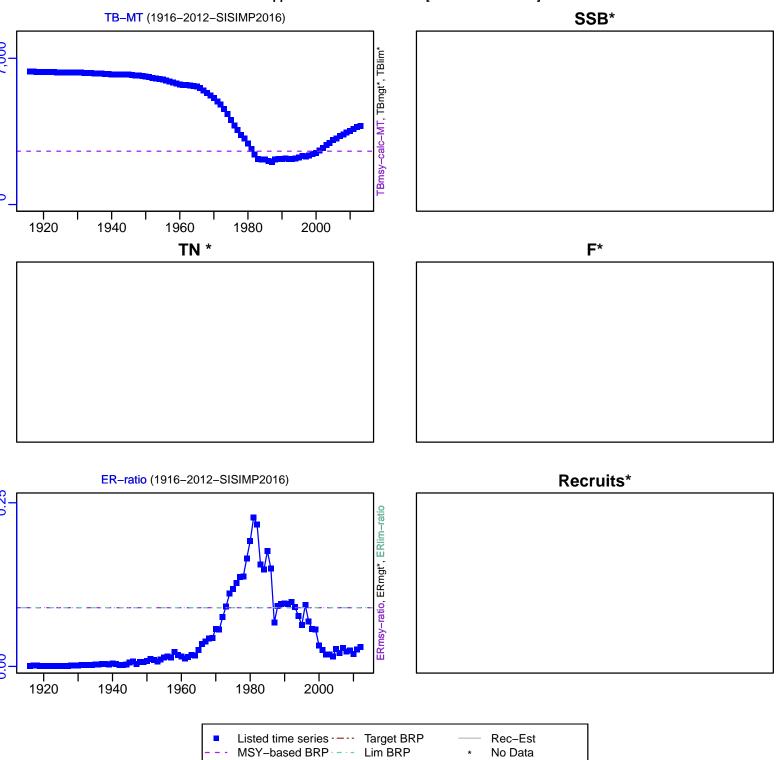


Metadata			
Scientific Name	Sebastes caurinus		
Current Assess ID	SWFSC-CPRROCKPCOAST-1916-2012-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Assessor Southwest Fisheries Science Center		
Asmts in RAM	2012		

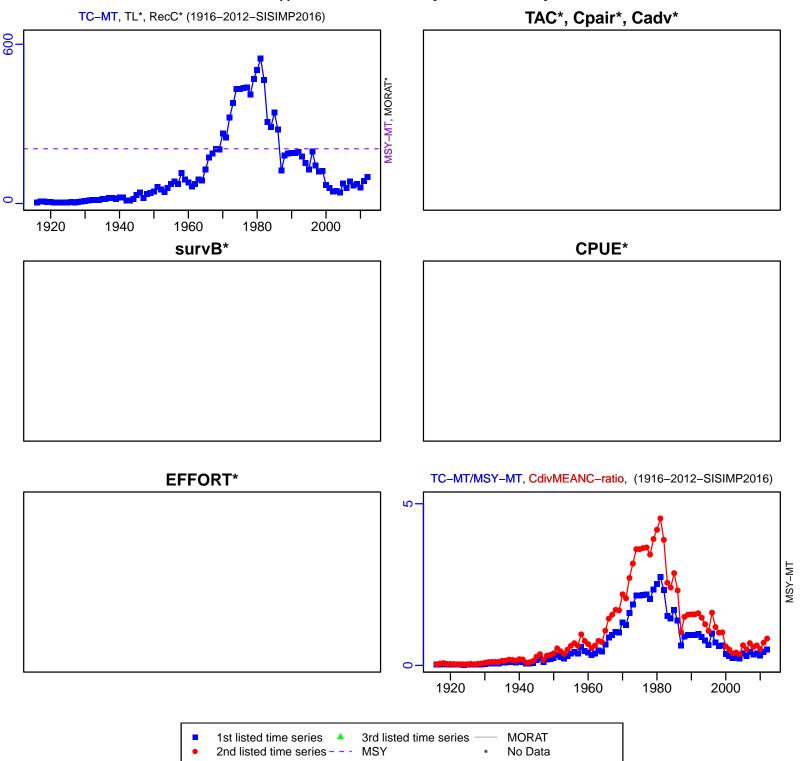
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2012	2238		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.088		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2012	197		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	ERlim-ratio	2012	0.088		

	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2012	3290	-	6+	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2012	0.029	-	-	
TC	TC-MT	2012	95			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	1.47			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.333			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





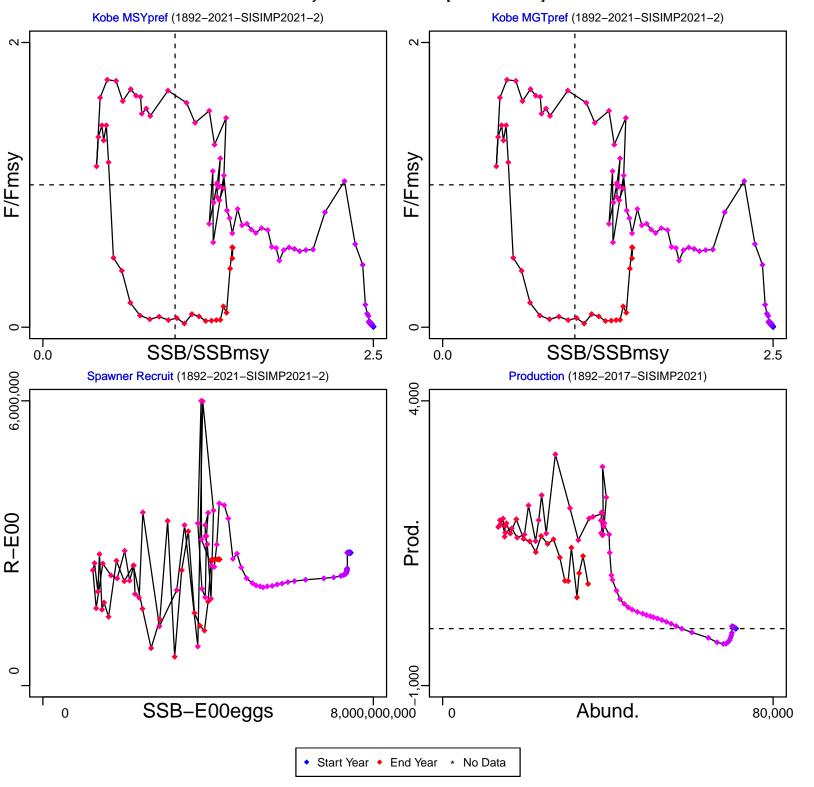
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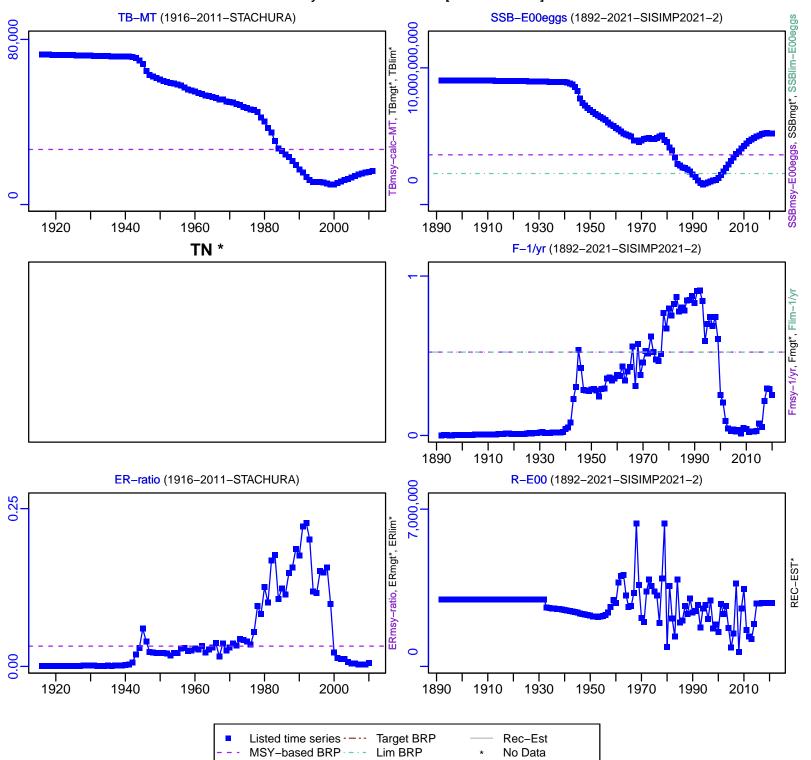


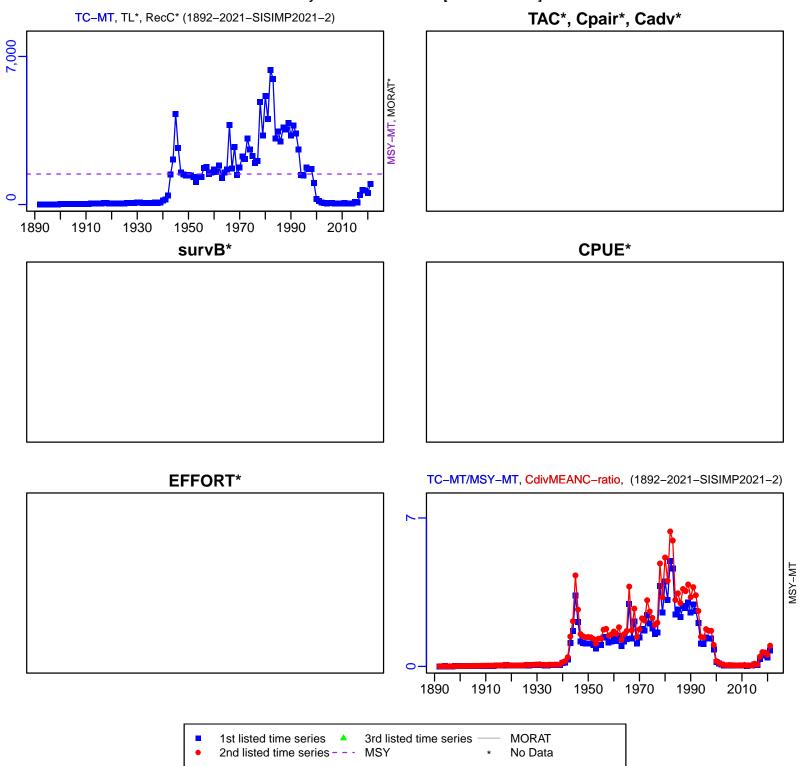
Metadata			
Scientific Name	Sebastes pinniger		
Current Assess ID NWFSC-CROCKPCOAST-1892-2021-SISIMP2021-2			
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2017, 2019, 2021, 2011		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	26,414	
SSBmsy	SSBmsy-E00eggs	2021	2.98×10^{9}	
Fmsy	Fmsy-1/yr	2021	0.5	
ERmsy	ERmsy-ratio	2011	0.03	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	70,664	
SSB0	SSB0-MT	2011	27,846	
MSY	MSY-MT	2021	1280	
М	M-1/yr	2011	0.06	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2021	1.86×10^{9}	
Flim	Flim-1/yr	2021	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	36,349	-	-
SSB	SSB-E00eggs	2021	4.26×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,660,000	-	0
F	F-1/yr	2021	0.242	-	-
ER	ER-calc-ratio	2017	0.003	-	-
TC	TC-MT	2021	867		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.61		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2021	1.43		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.484		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.171		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





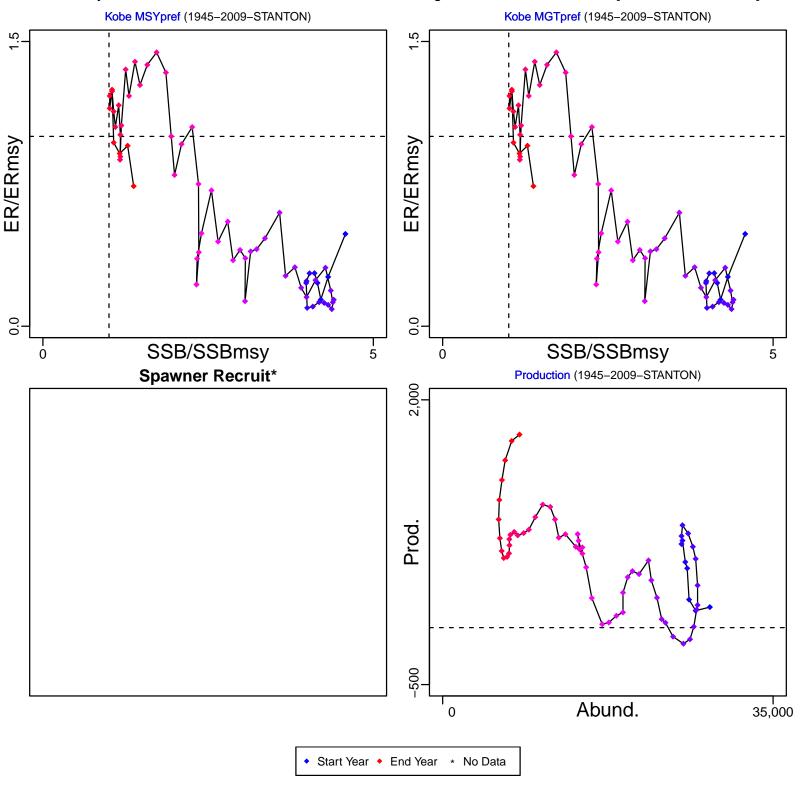


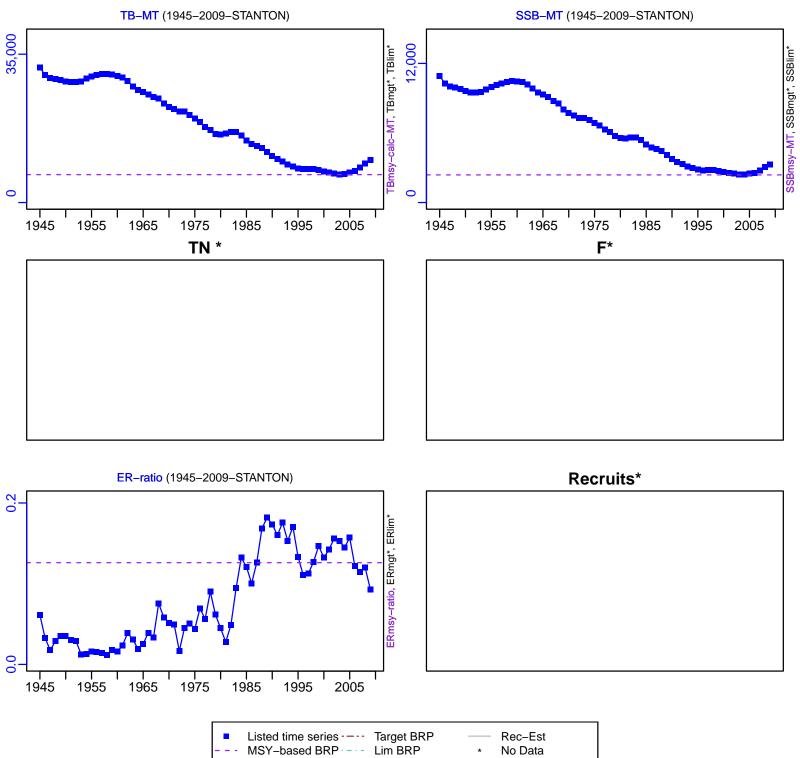
Canary rockfish West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands [CROCKWCVANISOGQCI]

Metadata			
Scientific Name	Sebastes pinniger		
Current Assess ID DFO-CROCKWCVANISOGQCI-1945-2009-STANTON			
Area West Coast of Vancouver Island and Strait of Georgia and Queen Charlotte Islands			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor Department of Fisheries and Oceans			
Asmts in RAM	2009		

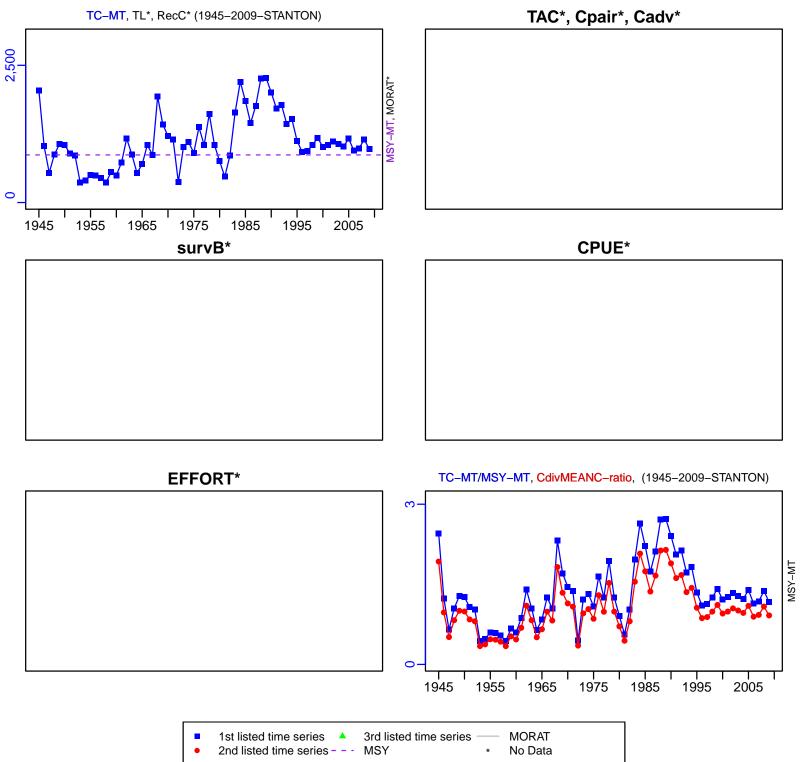
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2009	5851		
SSBmsy	SSBmsy-MT	2009	1988		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2009	0.122		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2009	714		
М	M-1/yr	2009	0.06		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2009	8890	-	14	
SSB	SSB-MT	2009	2730	Females	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-ratio	2009	0.09	-	-	
TC	TC-MT	2009	800			
TL	-	-	-			
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	1.519			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.373			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.738			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





No Data



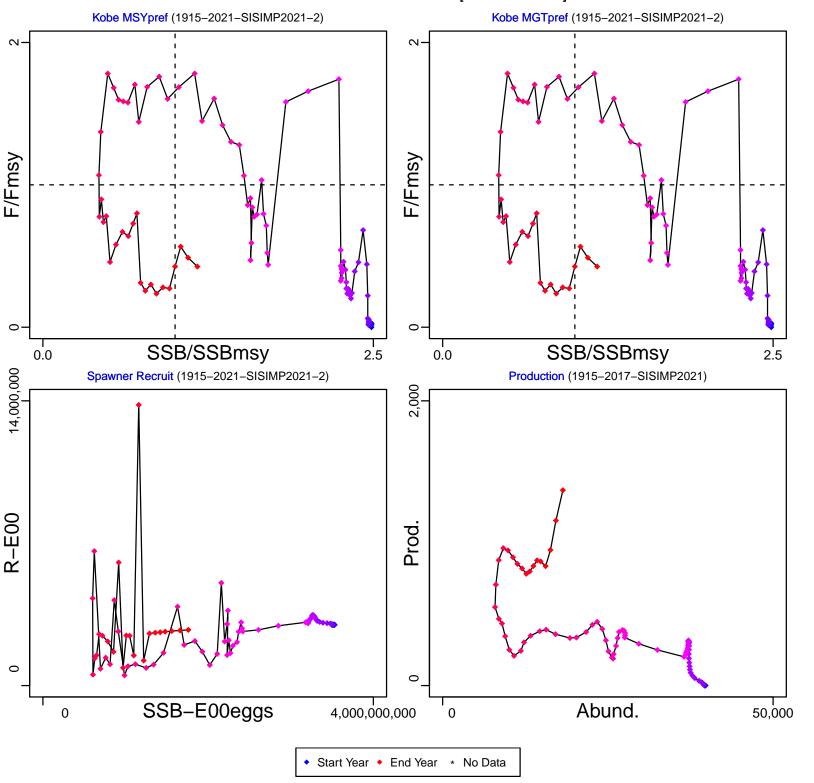
Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

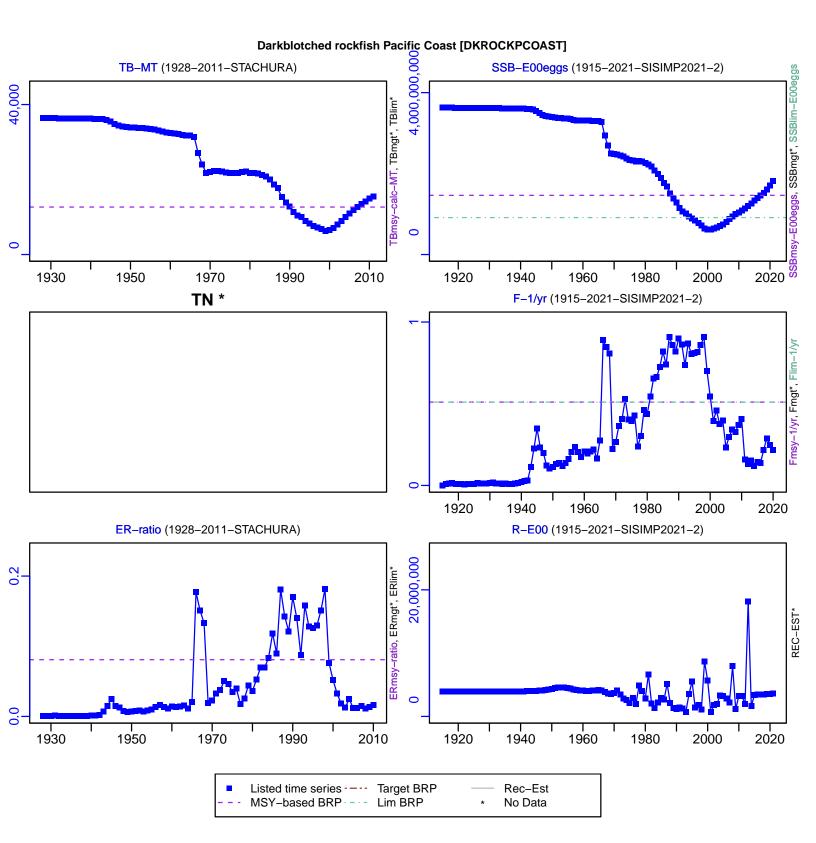
Metadata			
Scientific Name	Sebastes crameri		
Current Assess ID NWFSC-DKROCKPCOAST-1915-2021-SISIMP2021-2			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2017, 2019, 2021, 2011		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	11,382	
SSBmsy	SSBmsy-E00eggs	2021	1.42×10^{9}	
Fmsy	Fmsy-1/yr	2021	0.5	
ERmsy	ERmsy-ratio	2011	0.068	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	32,710	
SSB0	SSB0-E00eggs	2011	2.92×10^{12}	
MSY	MSY-MT	2021	639	
M	M-1/yr	2011	0.07	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2021	8.86×10^{8}	
Flim	Flim-1/yr	2021	0.5	
ERlim	-	-	-	

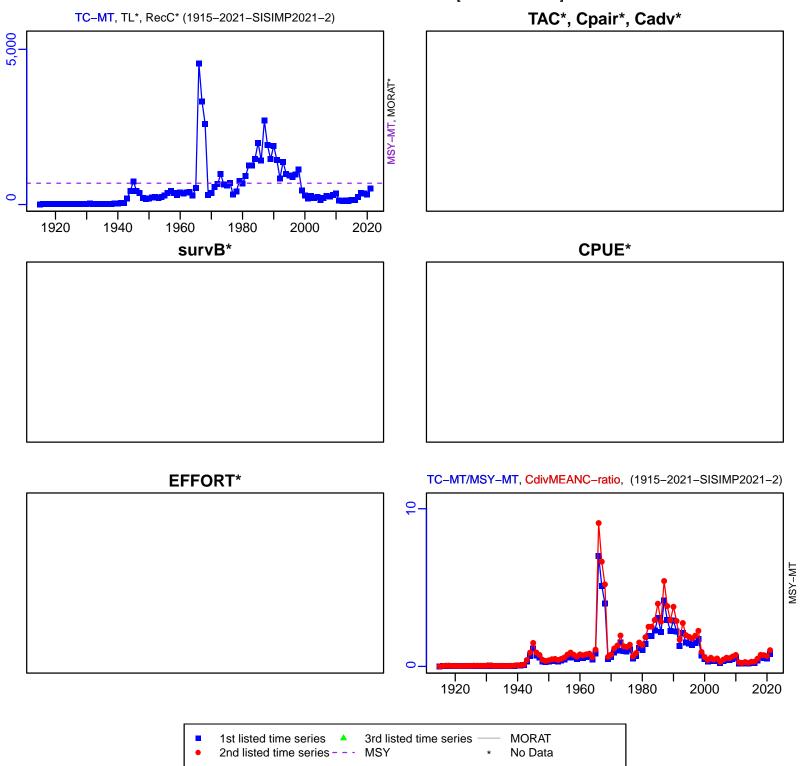
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	20,713	-	-
SSB	SSB-E00eggs	2021	1.76×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,740,000	-	0
F	F-1/yr	2021	0.213	-	-
ER	ER-calc-ratio	2017	0.007	-	-
TC	TC-MT	2021	479		
TL	TL-MT	2011	183		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.221		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2021	1.239		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.426		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.201]	
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Darkblotched rockfish Pacific Coast [DKROCKPCOAST]





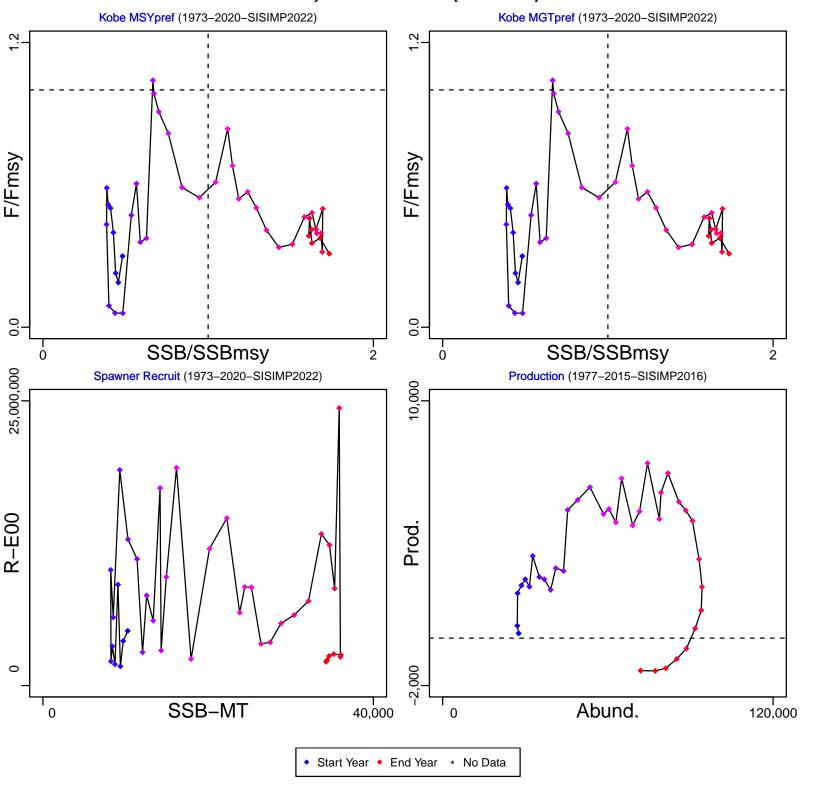
Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

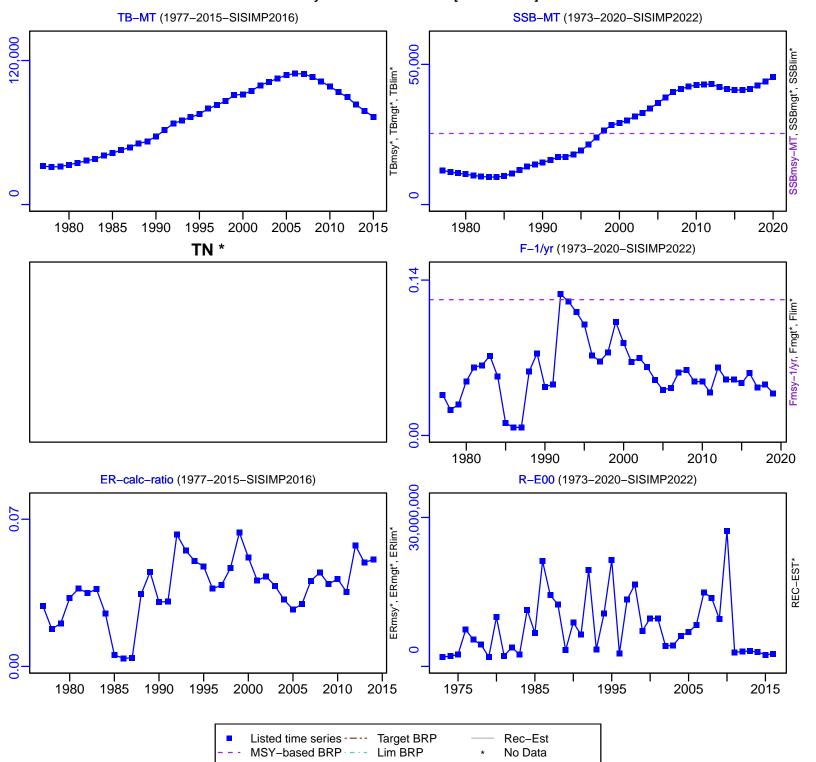


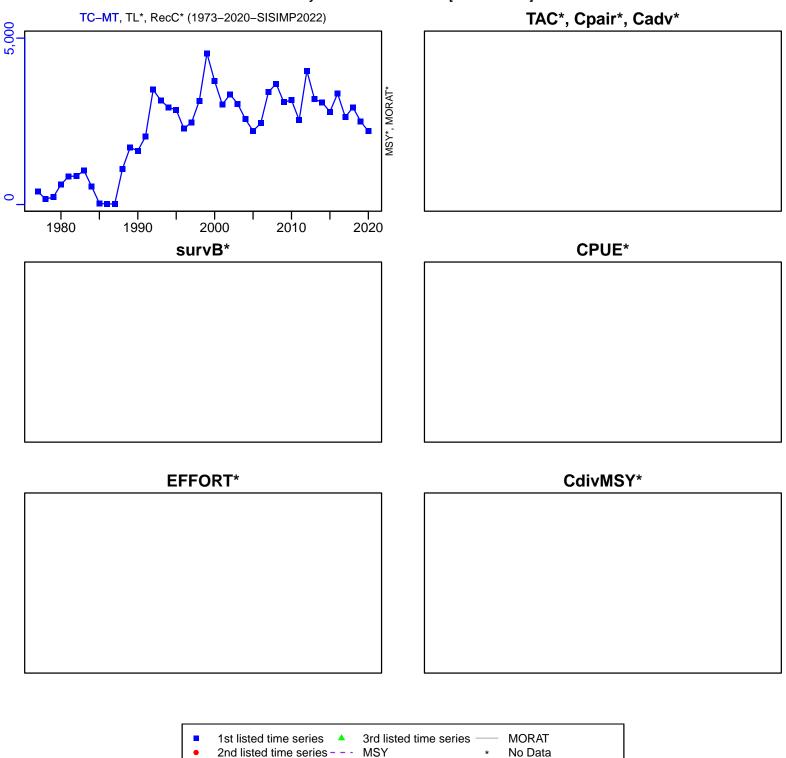
Metadata			
Scientific Name	Sebastes variabilis		
Current Assess ID	AFSC-DUSROCKGA-1973-2020-SISIMP2022		
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2016, 2018, 2020, 2015, 2018, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2020	21,299	
Fmsy	Fmsy-1/yr	2020	0.114	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2010	0.07	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2020	0.06	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	63,100	-	4+
SSB	SSB-MT	2020	38,202	Females	-
TN	-	-	-	-	-
R	R-E00	2020	2,220,000	-	4
F	F-1/yr	2020	0.035	-	-
ER	ER-calc-ratio	2015	0.045	-	-
TC	TC-MT	2020	2198		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.794		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.31		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





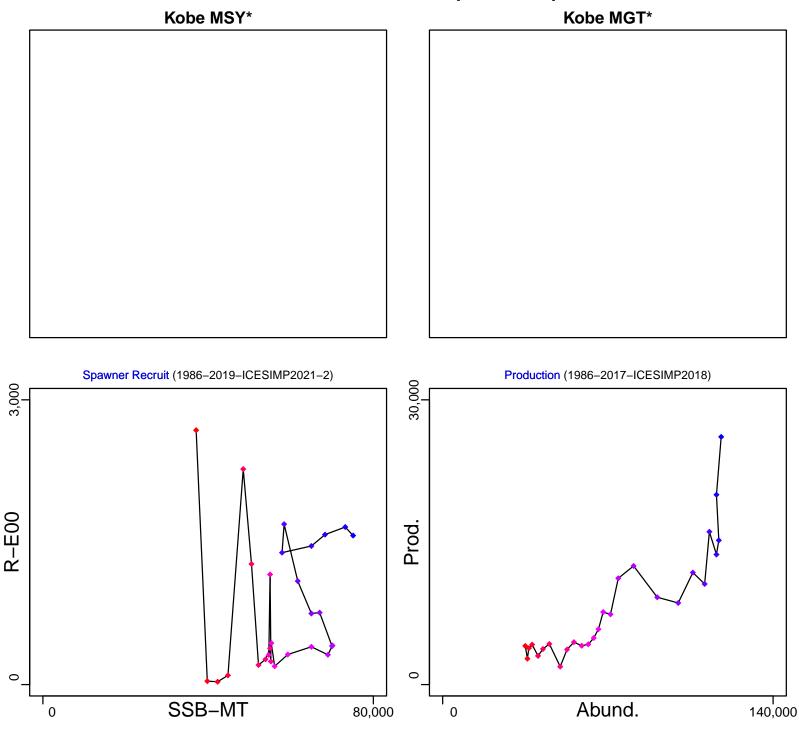


Golden redfish North-East Arctic [GOLDREDNEAR]

Metadata			
Scientific Name	Sebastes norvegicus		
Current Assess ID	AFWG-GOLDREDNEAR-1986-2019-ICESIMP2021-2		
Area North-East Arctic			
Management Authority	International Council for the Exploration of the Sea		
Assessor	Arctic Fisheries Working Group		
Asmts in RAM	2016, 2010, 2017, 2019		

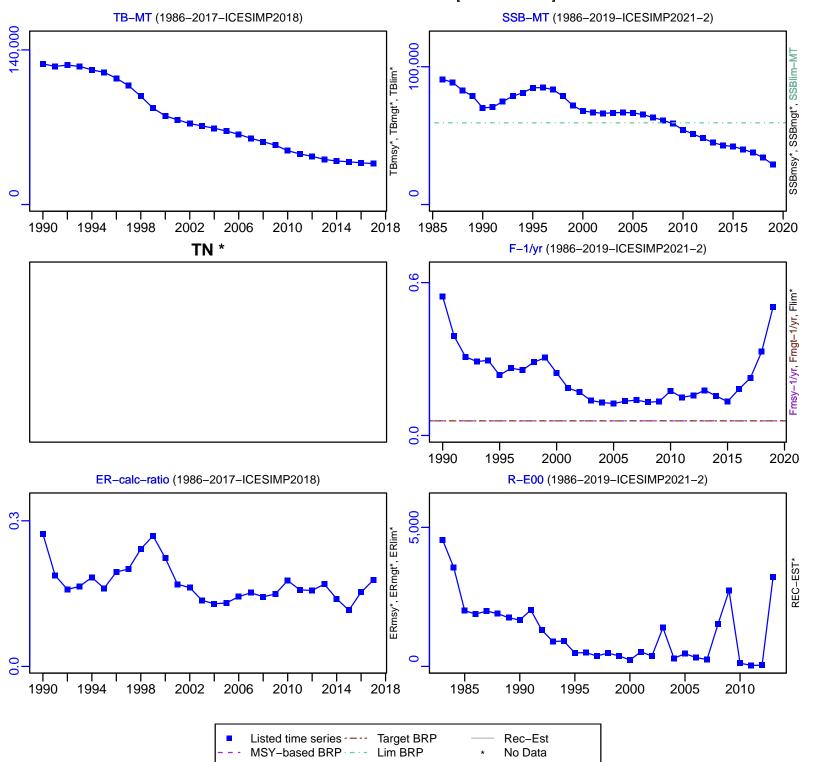
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2019	0.052		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	Fmgt-1/yr	2019	0.052		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2010	0.1		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2019	49,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	34,400	Both	-
SSB	SSB-MT	2019	23,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	2680	-	3
F	F-1/yr	2019	0.462	-	-
ER	ER-calc-ratio	2017	0.155	-	-
TC	TC-MT	2019	8280		
TL	TL-MT	2019	8280		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	8.805		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	8.805		
ER/ERmgt	-	-	-		

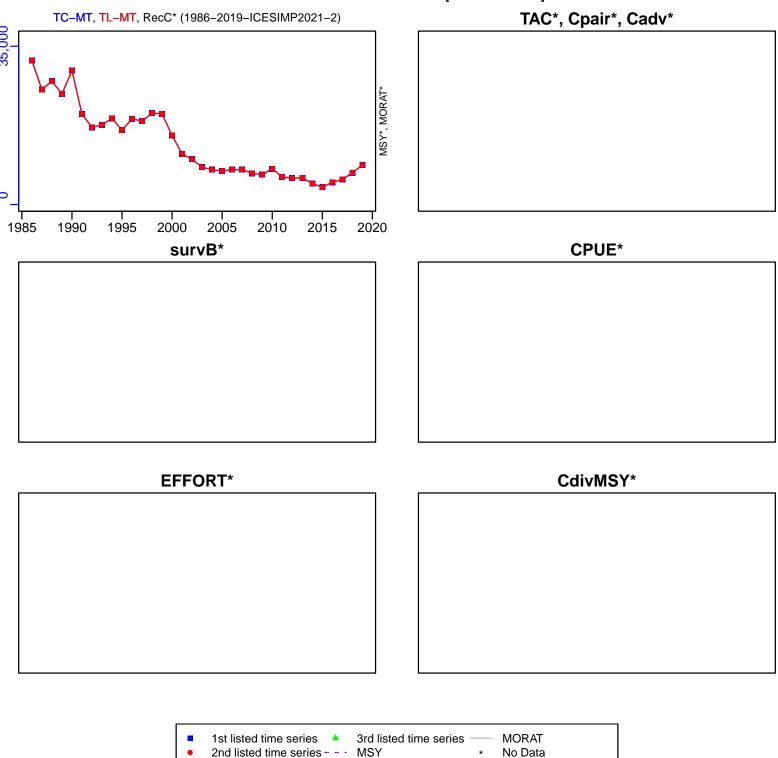


Start Year ◆ End Year * No Data

Golden redfish North-East Arctic [GOLDREDNEAR]



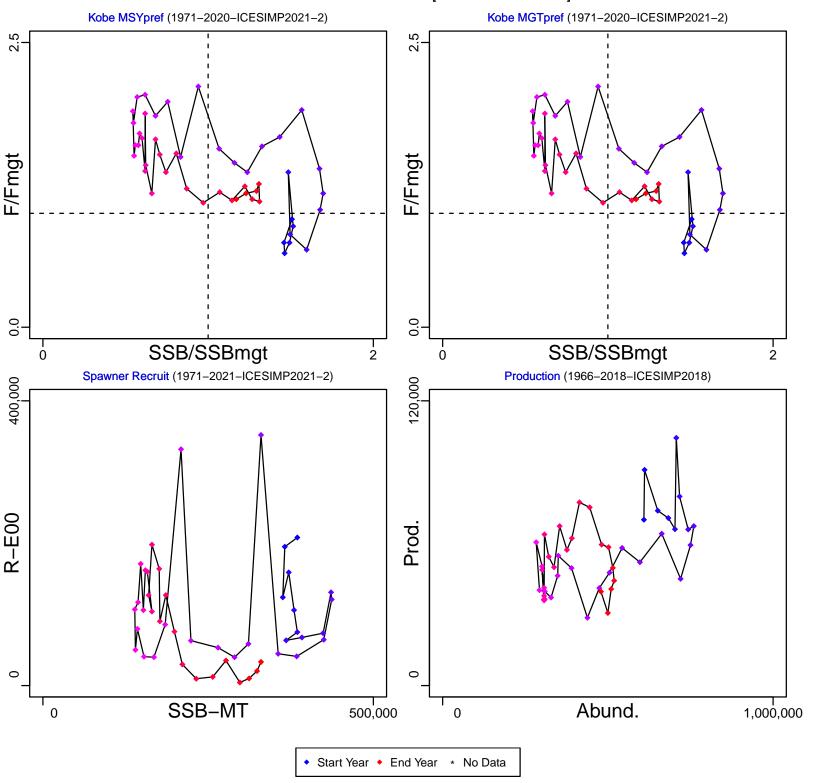
Golden redfish North-East Arctic [GOLDREDNEAR]

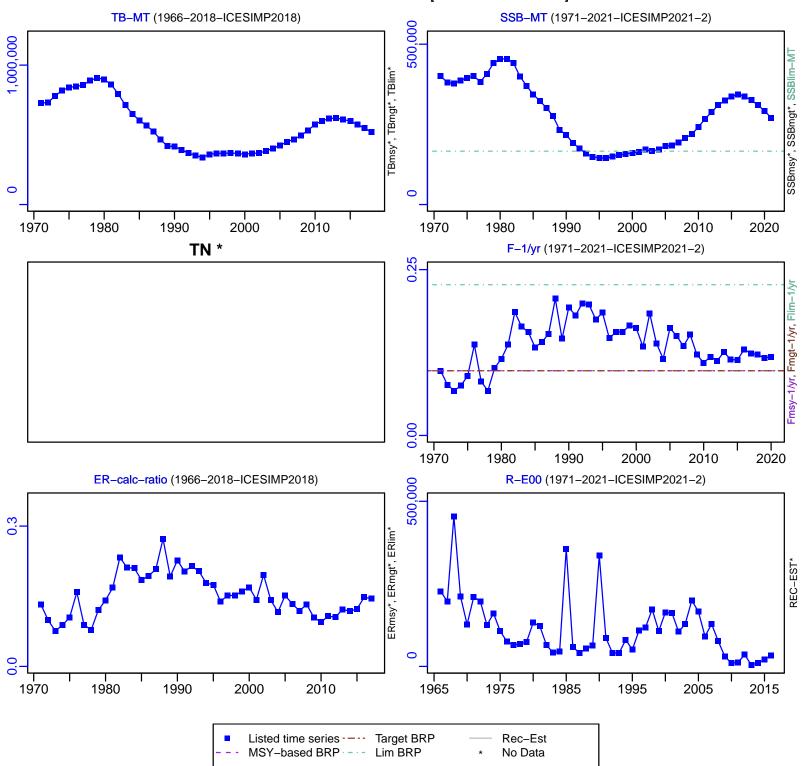


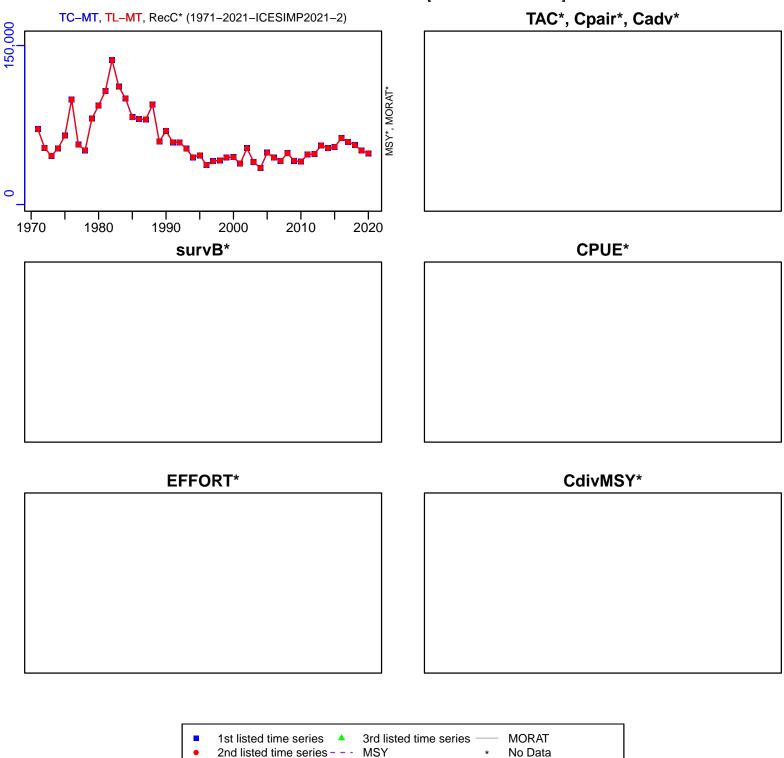
Metadata			
Scientific Name	Sebastes norvegicus		
Current Assess ID NWWG-GOLDREDV-VI-XII-XIV-1971-2021-ICESIMP2021-			
Area ICES 5-6-12-14			
Management Authority International Council for the Exploration of the Sea			
Assessor	North-Western Working Group		
Asmts in RAM	2014, 2017, 2018, 2015, 2016, 2019, 2020, 2021		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2021	0.097	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2020	270,000	
Fmgt	Fmgt-1/yr	2021	0.097	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2021	160,000	
Flim	Flim-1/yr	2021	0.226	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	434,000	Both	-
SSB	SSB-MT	2021	260,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	33,200	-	5
F	F-1/yr	2021	0.118	-	-
ER	ER-calc-ratio	2018	0.122	-	-
TC	TC-MT	2021	46,100		
TL	TL-MT	2021	46,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.216		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.1		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.216		
ER/ERmgt	-	-	-		



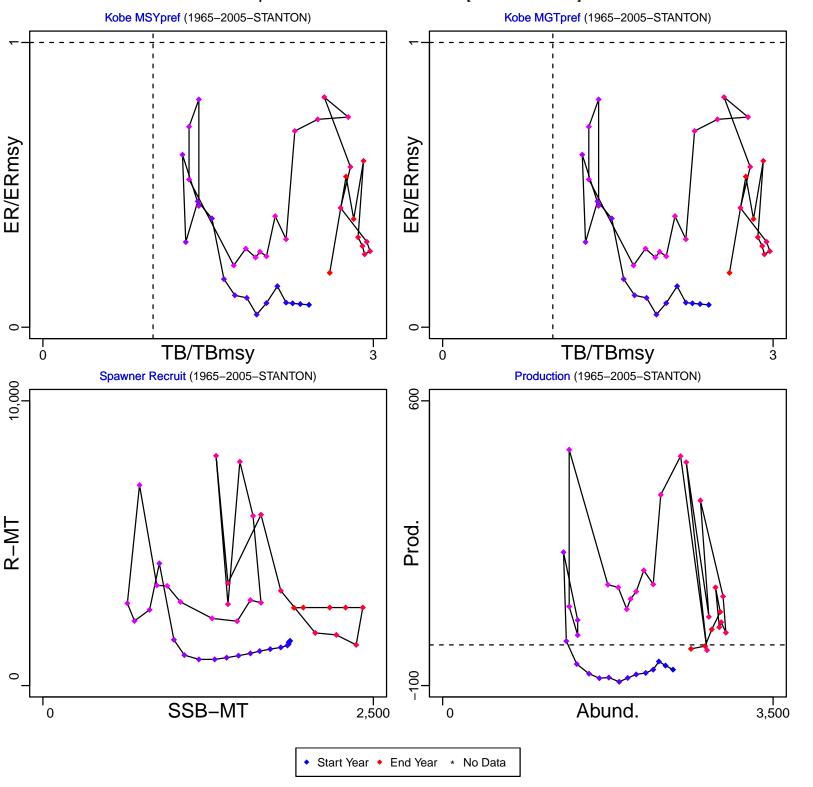


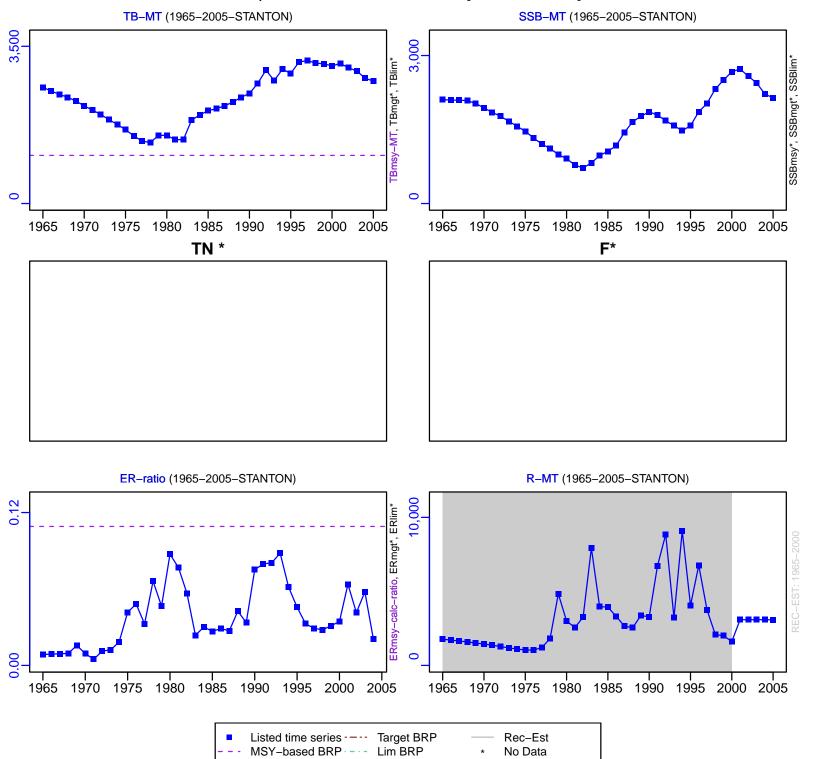


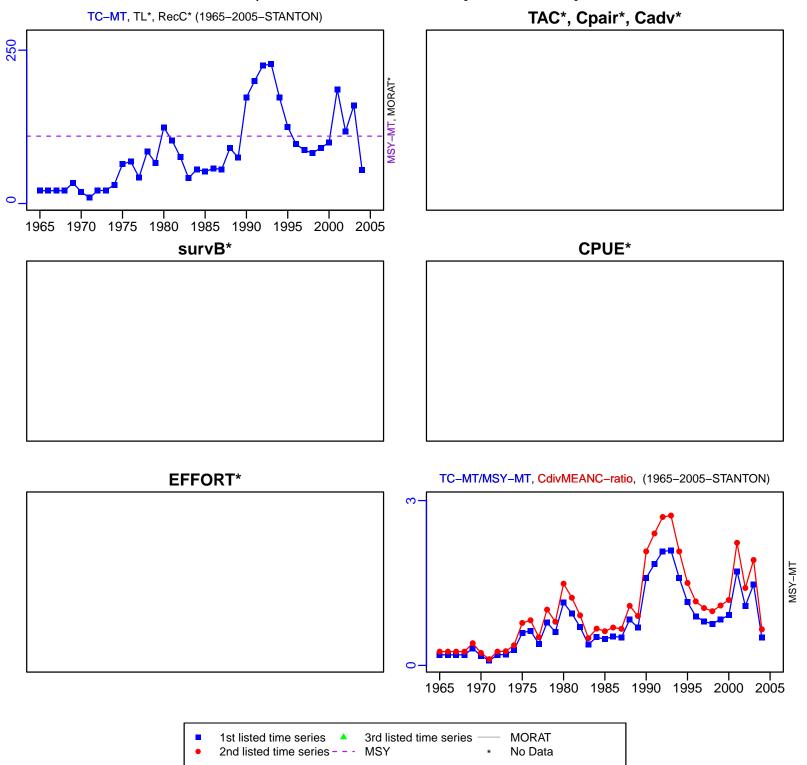
Metadata			
Scientific Name	Sebastes carnatus		
Current Assess ID SWFSC-GOPHERSPCOAST-1965-2005-STANTON			
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national manageme			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2005	1010		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-calc-ratio	2005	0.1		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2005	2440		
SSB0	SSB0-MT	2005	1995		
MSY	MSY-MT	2005	101		
M	M-1/yr	2005	0.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	2570	-	1+
SSB	SSB-MT	2005	1900	Females	3+
TN	-	-	-	-	-
R	R-MT	2005	2730	-	0
F	-	-	-	-	-
ER	ER-ratio	2005	0.019	-	-
TC	TC-MT	2005	50		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2005	2.545		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2005	0.191		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







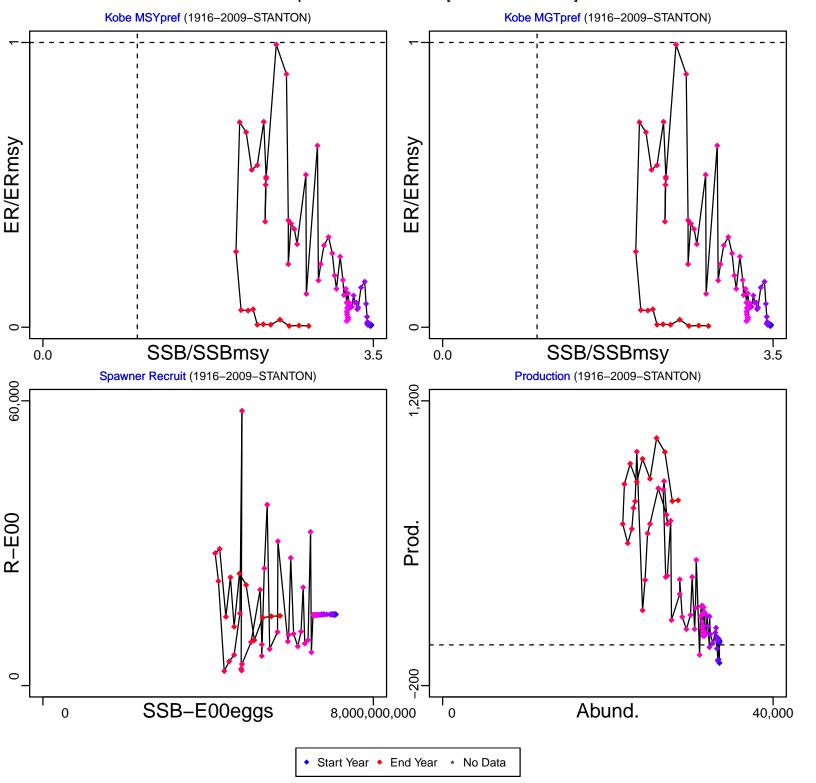
Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

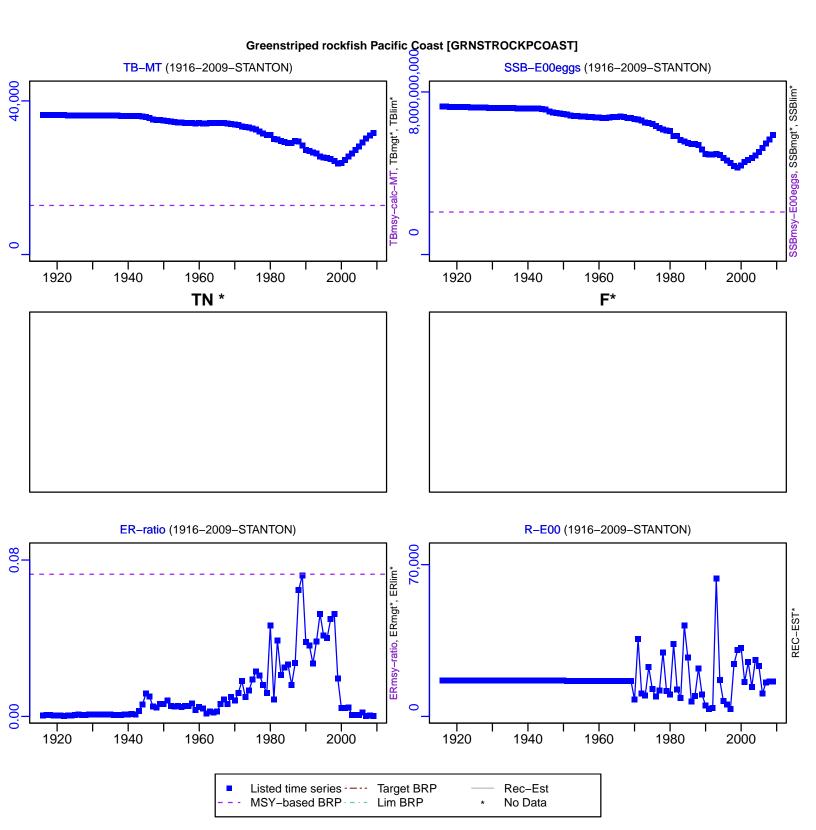
Metadata				
Scientific Name	Sebastes elongatus			
Current Assess ID	PFMC-GRNSTROCKPCOAST-1916-2009-STANTON			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Pacific Fishery Management Council			
Asmts in RAM	2009			

Reference Points						
Туре	ID	Asmt Year	r Value			
TBmsy	TBmsy-calc-MT	2009	11,774			
SSBmsy	SSBmsy-E00eggs	2009	2.039×10^{9}			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2009	0.068			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2009	803			
М	M-1/yr	2009	0.08			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

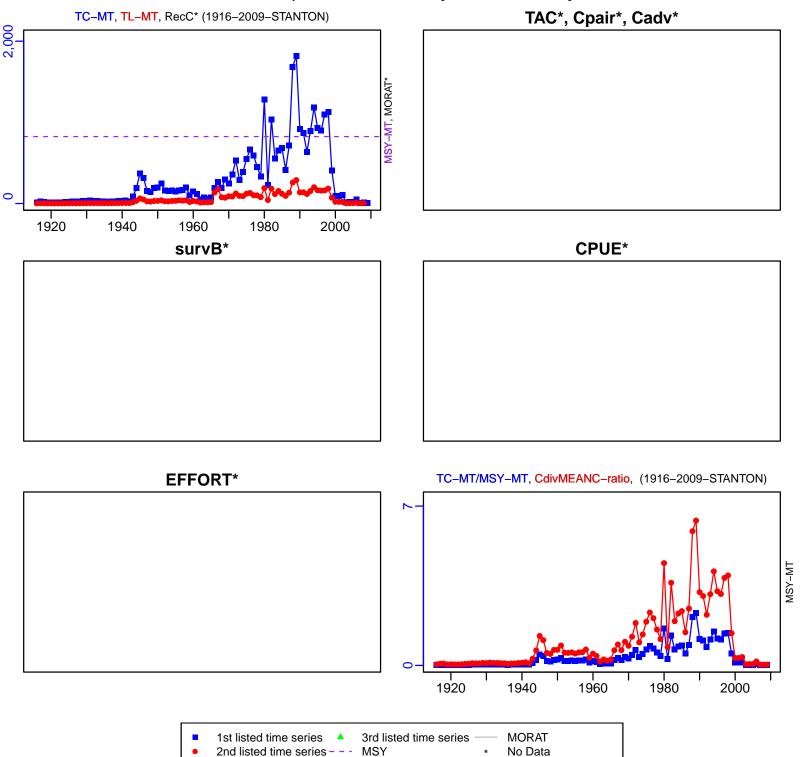
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2009	29,200	-	2+		
SSB	SSB-E00eggs	2009	5.74×10^{9}	Females	-		
TN	-	-	-	-	-		
R	R-E00	2009	14,700	-	0		
F	-	-	-	-	-		
ER	ER-ratio	2009	0	-	-		
TC	TC-MT	2009	9				
TL	TL-MT	2009	3.39				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.48				
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2009	2.815				
F/Fmsy	-	-	-				
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.004				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]





Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]



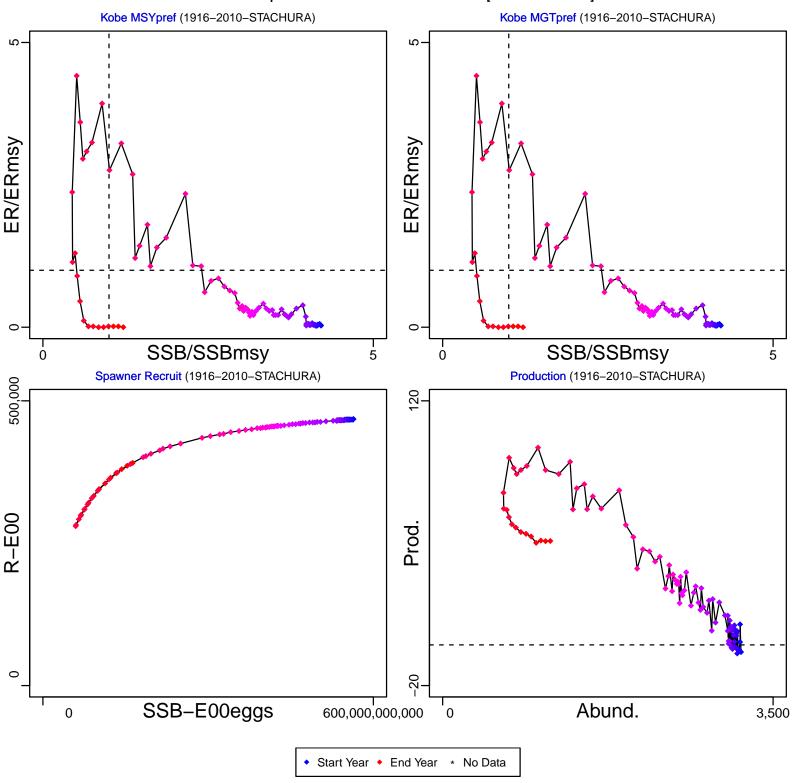
Greenspotted rockfish Northern Pacific Coast [GRSPROCKNCAL]

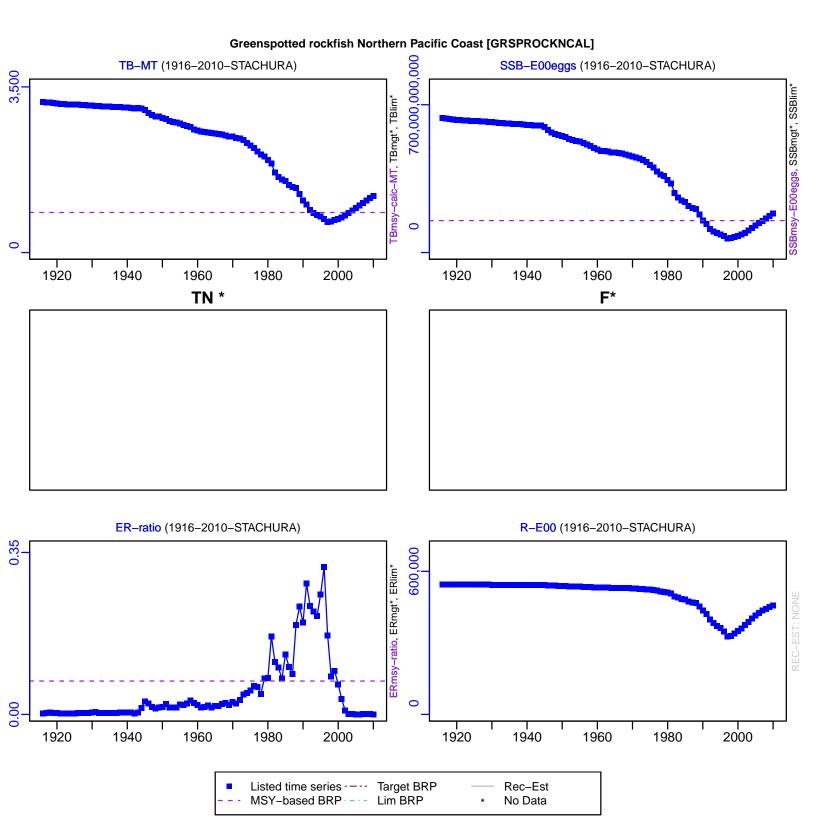
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID	SWFSC-GRSPROCKNCAL-1916-2010-STACHURA		
Area Northern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2010		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2010	840	
SSBmsy	SSBmsy-E00eggs	2010	1.34×10^{11}	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2010	0.07	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	3160	
SSB0	SSB0-E00eggs	2010	5.64×10^{9}	
MSY	MSY-MT	2010	59	
М	M-1/yr	2010	0.07	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

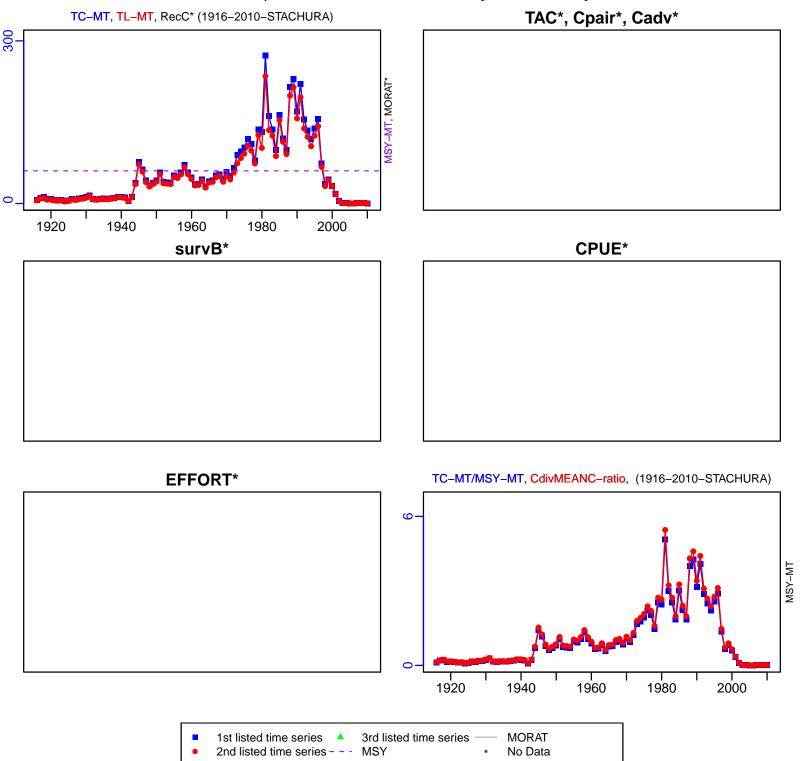
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1190	-	0+
SSB	SSB-E00eggs	2010	1.63×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	391,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	0.4		
TL	TL-MT	2010	0.37		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.417		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2010	1.216		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenspotted rockfish Northern Pacific Coast [GRSPROCKNCAL]





Greenspotted rockfish Northern Pacific Coast [GRSPROCKNCAL]



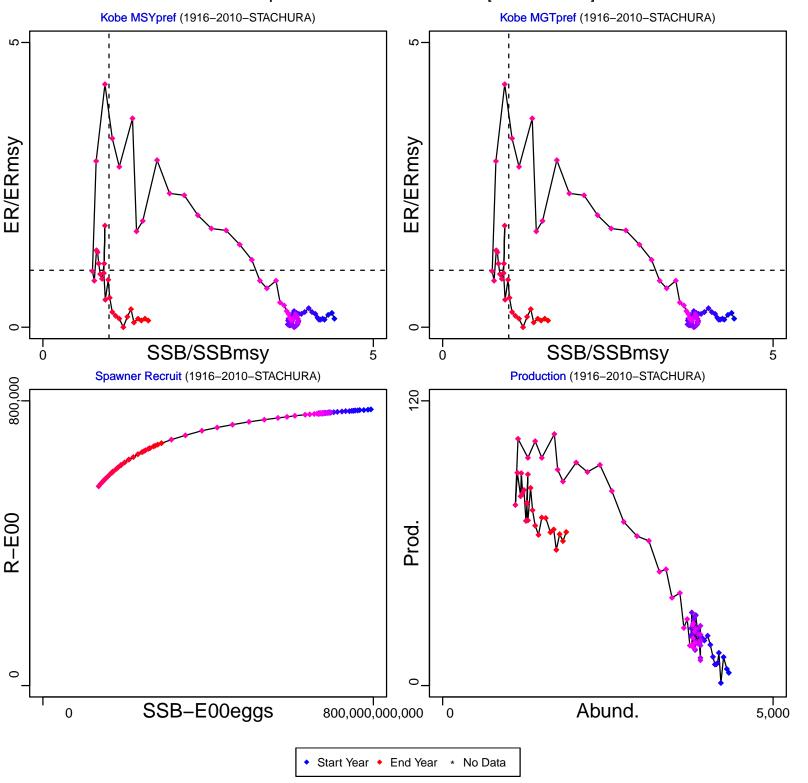
Greenspotted rockfish Southern Pacific Coast [GRSPROCKSCAL]

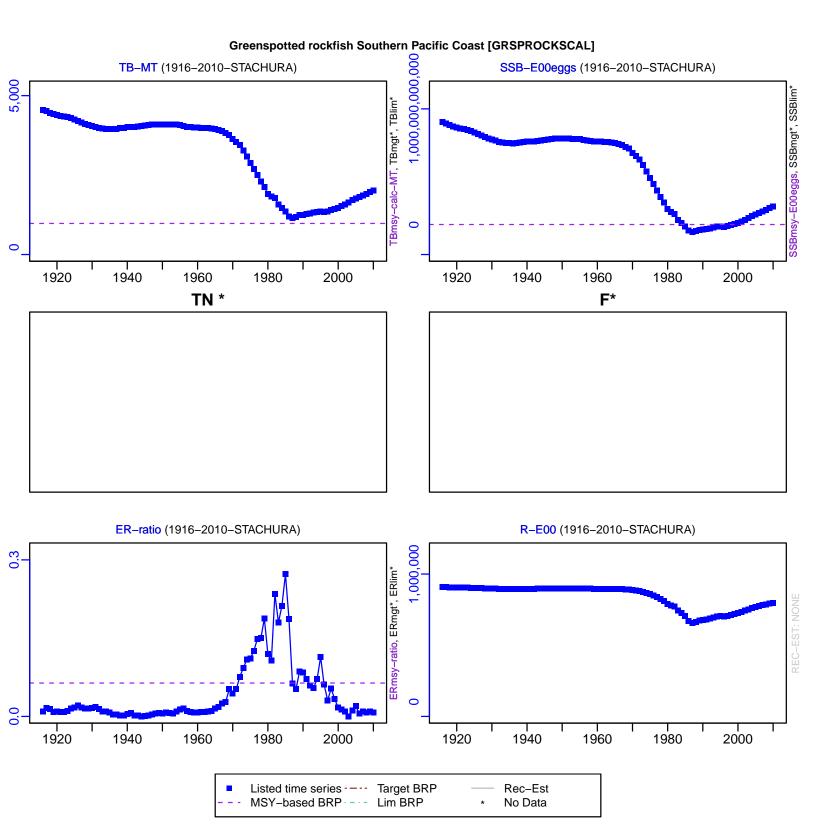
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID	SWFSC-GRSPROCKSCAL-1916-2010-STACHURA		
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2010		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2010	932	
SSBmsy	SSBmsy-E00eggs	2010	1.8×10^{11}	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2010	0.06	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	4331	
SSB0	SSB0-E00eggs	2010	7.94×10^{9}	
MSY	MSY-MT	2010	56	
M	M-1/yr	2010	0.07	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

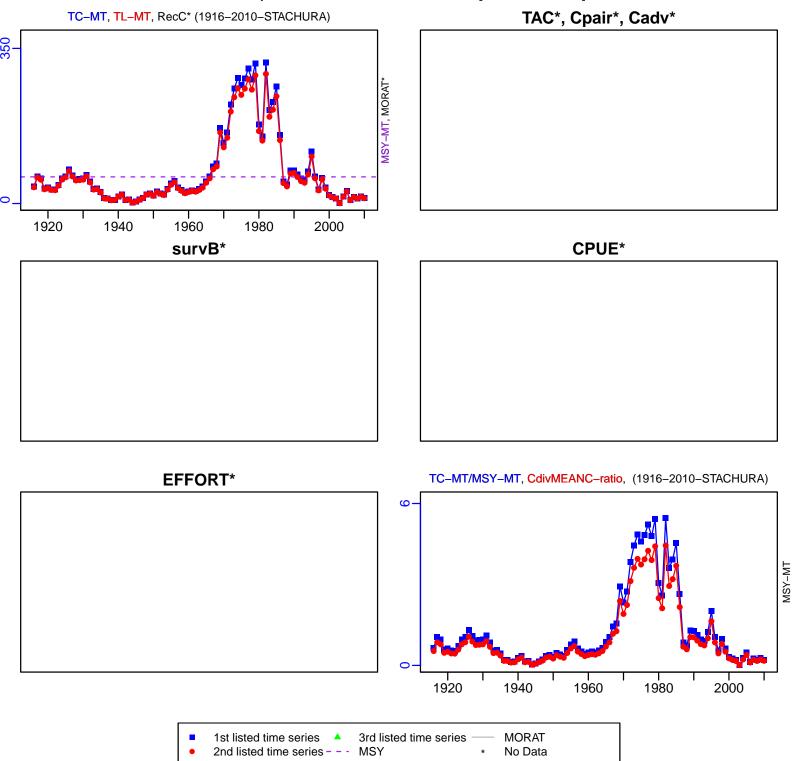
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1920	-	0+
SSB	SSB-E00eggs	2010	2.87×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	681,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0.007	-	-
TC	TC-MT	2010	11		
TL	TL-MT	2010	11		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.061		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2010	1.594		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.117		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenspotted rockfish Southern Pacific Coast [GRSPROCKSCAL]





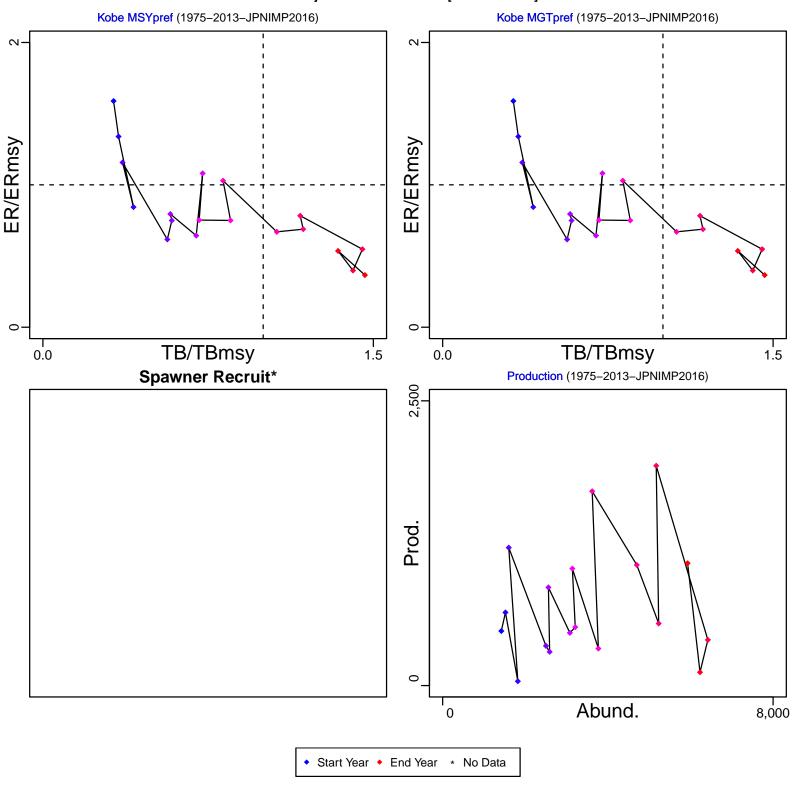
Greenspotted rockfish Southern Pacific Coast [GRSPROCKSCAL]

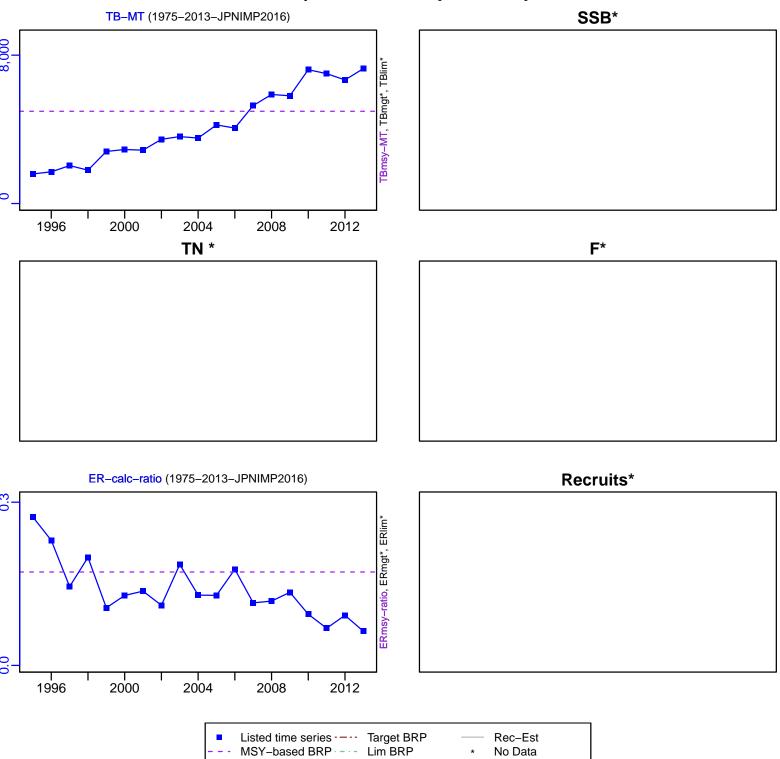


Metadata			
Scientific Name	Sebastolobus macrochir		
Current Assess ID FAFRFJ-KCROCKNPAC-1975-2013-JPNIMP2016			
Area North Pacific			
Management Authority	Fisheries Agency of Japan		
Assessor	Fisheries Agency and Fisheries Research Agency of Japan		
Asmts in RAM	2013		

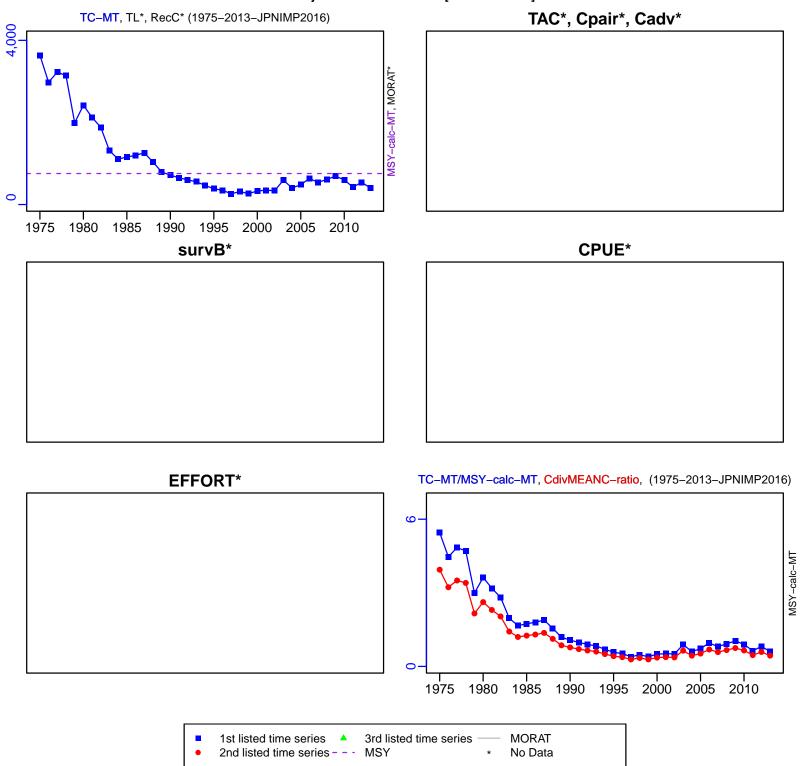
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2013	4426		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.168		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-				
MSY	MSY-calc-MT	2013	744		
M	M-1/yr	2013	0.125		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-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



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		

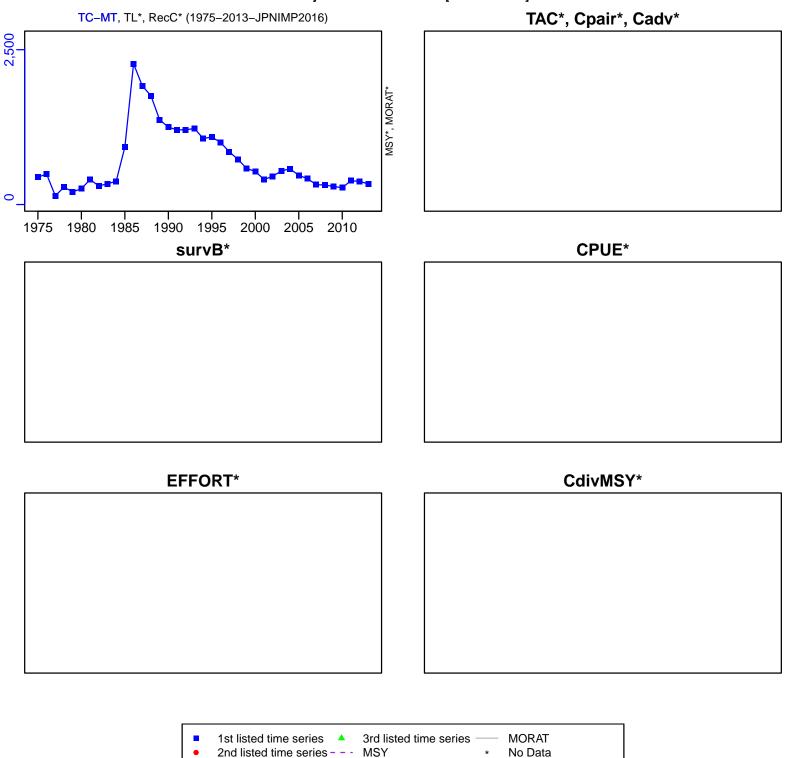
F	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2013	309			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	_	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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	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	

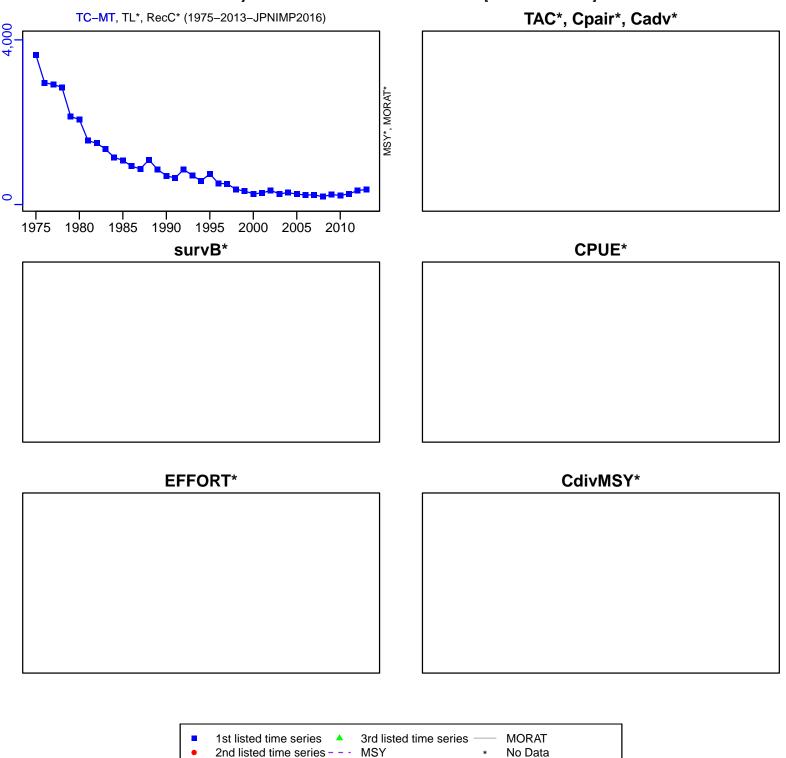
Reference Points					
Type ID Asmt Year Value					
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	363		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

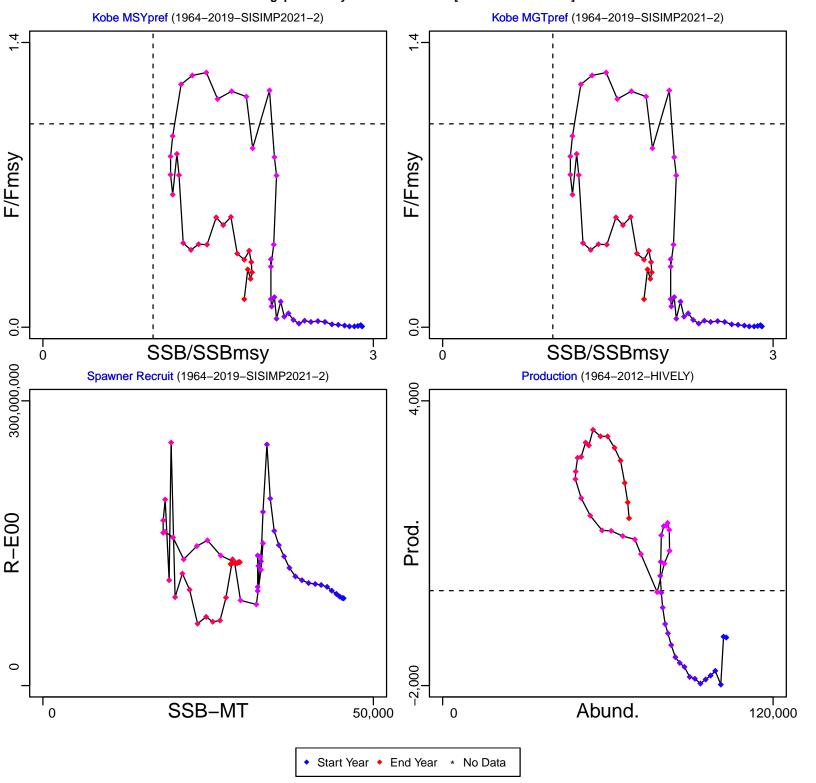
TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP * No Data

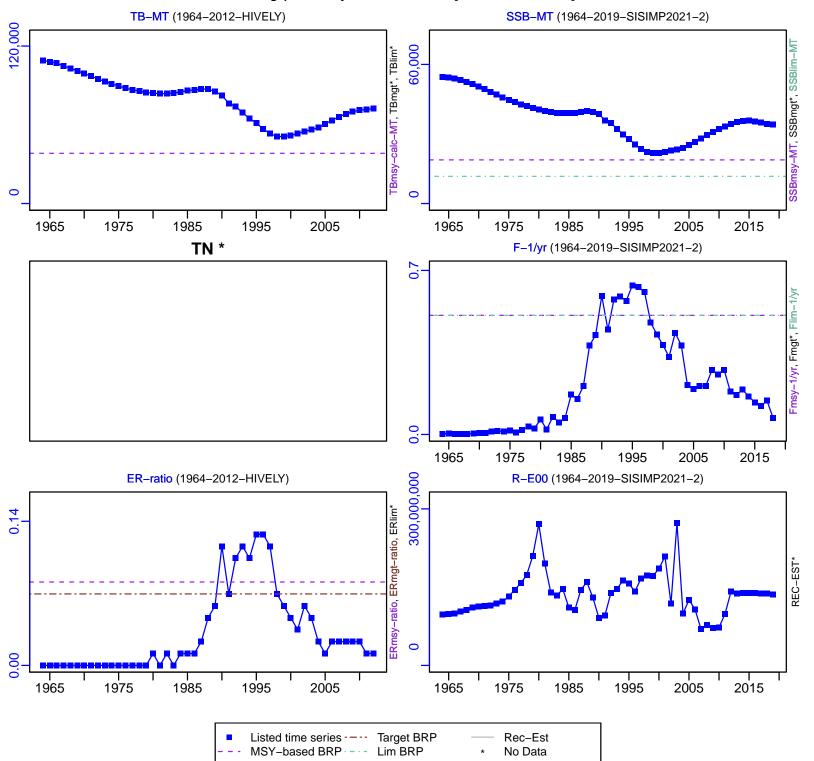


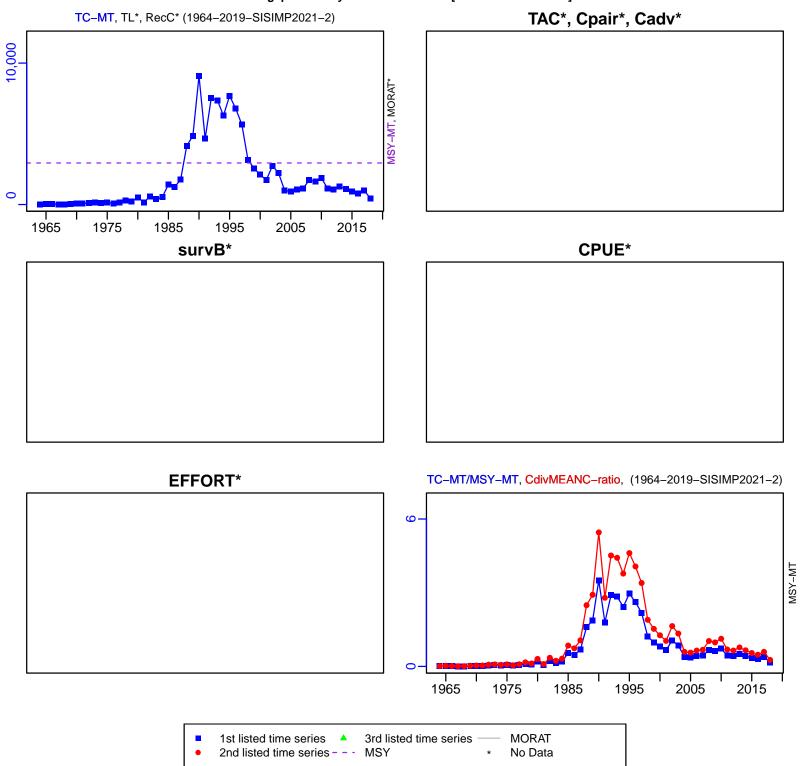
Metadata		
Scientific Name	Sebastolobus altivelis	
Current Assess ID	NWFSC-LSTHORNHPCOAST-1964-2019-SISIMP2021-2	
Area Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management	
Assessor Northwest Fisheries Science Center		
Asmts in RAM	2012, 2019	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	36,129
SSBmsy	SSBmsy-MT	2019	15,700
Fmsy	Fmsy-1/yr	2019	0.5
ERmsy	ERmsy-ratio	2012	0.07
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	15,654
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2012	0.06
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	2490
M	M-1/yr	2012	0.11
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	9780
Flim	Flim-1/yr	2019	0.5
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	68,300	-	2+
SSB	SSB-MT	2019	28,400	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.28×10^{8}	-	0
F	F-1/yr	2019	0.069	-	-
ER	ER-ratio	2012	0.01	-	-
TC	TC-MT	2019	371		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	1.89		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.809		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.138		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.143		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.833		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



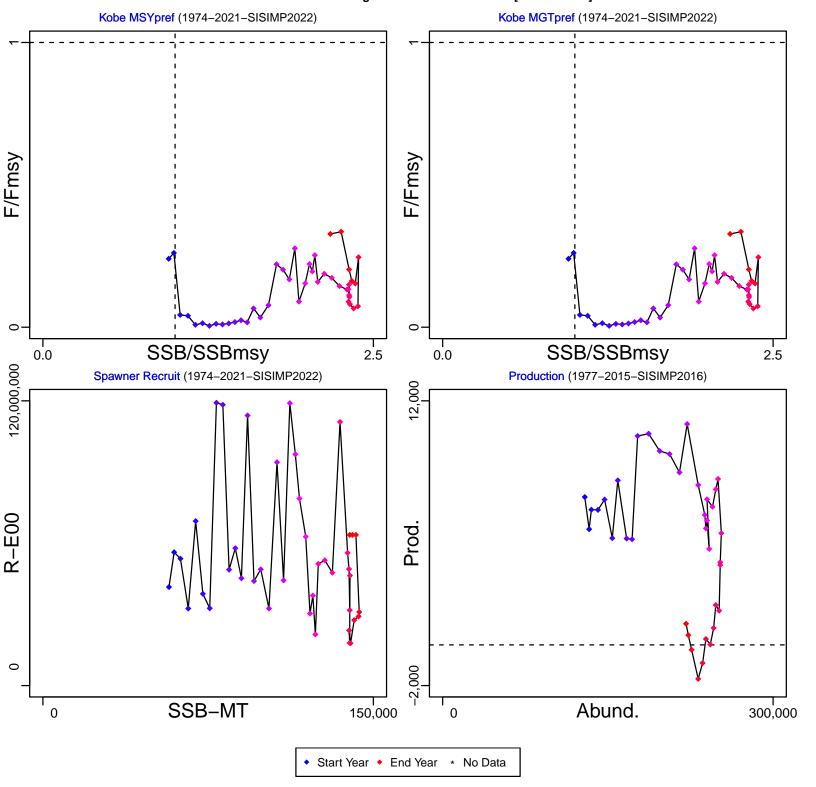


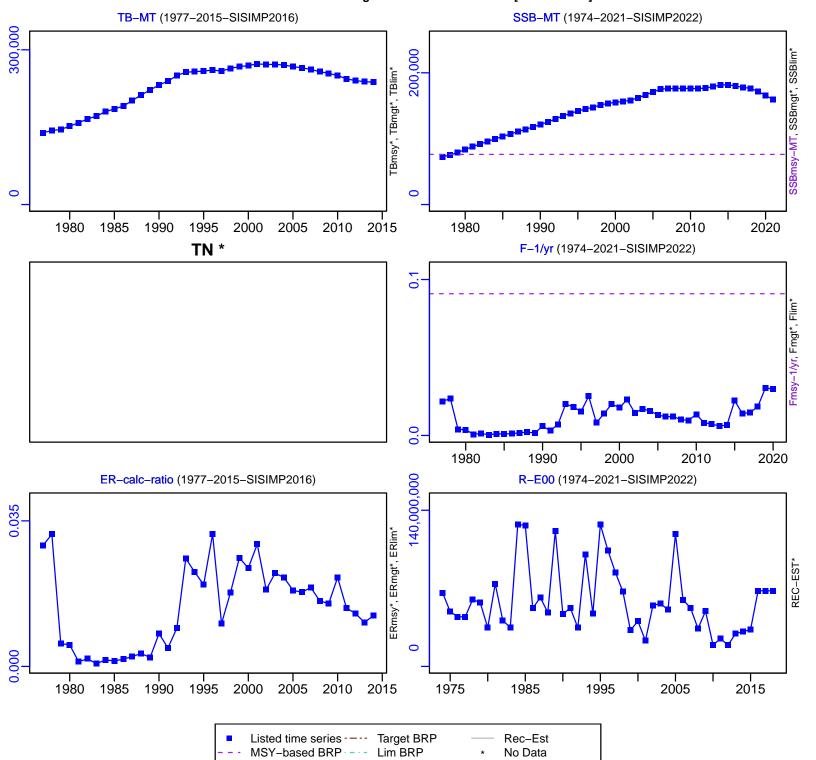


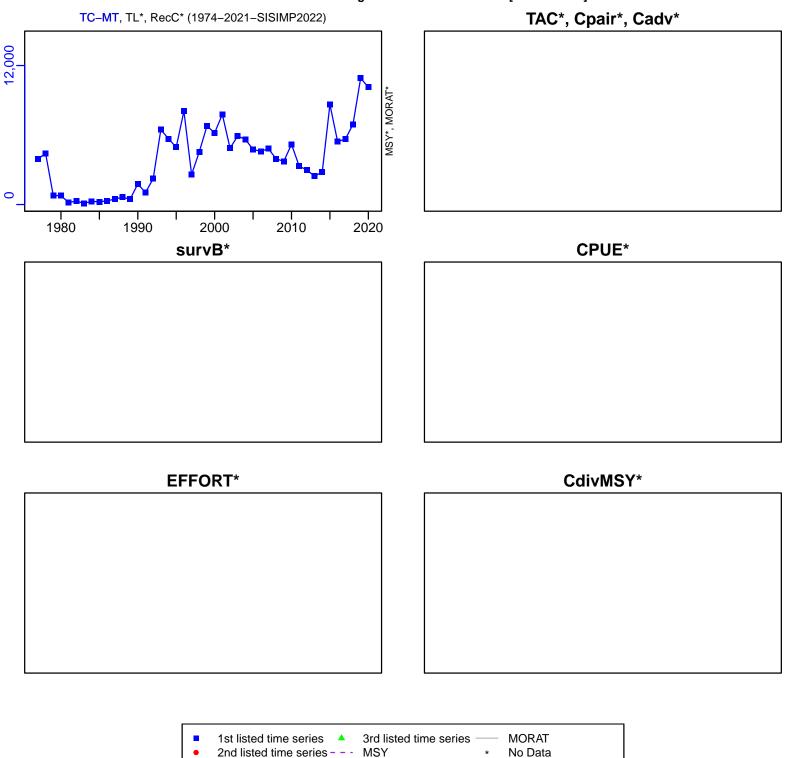
Metadata		
Scientific Name	Sebastes polyspinis	
Current Assess ID	AFSC-NROCKBSAI-1974-2021-SISIMP2022	
Area Bering Sea and Aleutian Islands		
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2011, 2016, 2017, 2018, 2021, 2015, 2019	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2021	60,119	
Fmsy	Fmsy-1/yr	2021	0.085	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2016	0.07	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2011	0.043	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2019	0.055	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	220,000	-	3+
SSB	SSB-MT	2021	125,932	-	-
TN	-	-	-	-	-
R	R-E00	2021	63,498,500	-	3
F	F-1/yr	2021	0.028	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2021	8443		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.095		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.328		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.295		
ER/ERmgt	-	-	-		



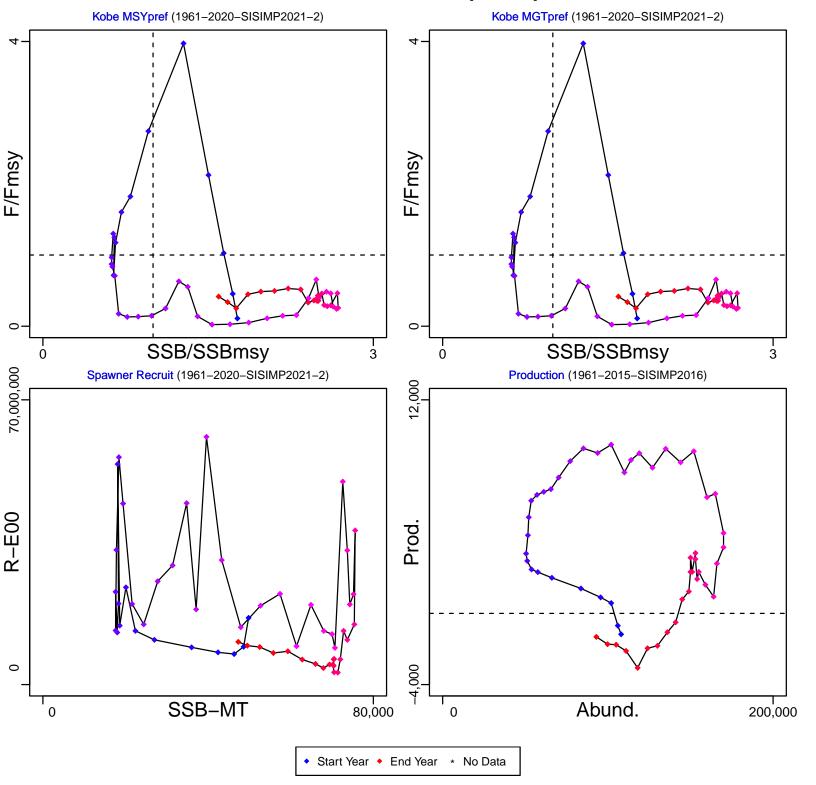


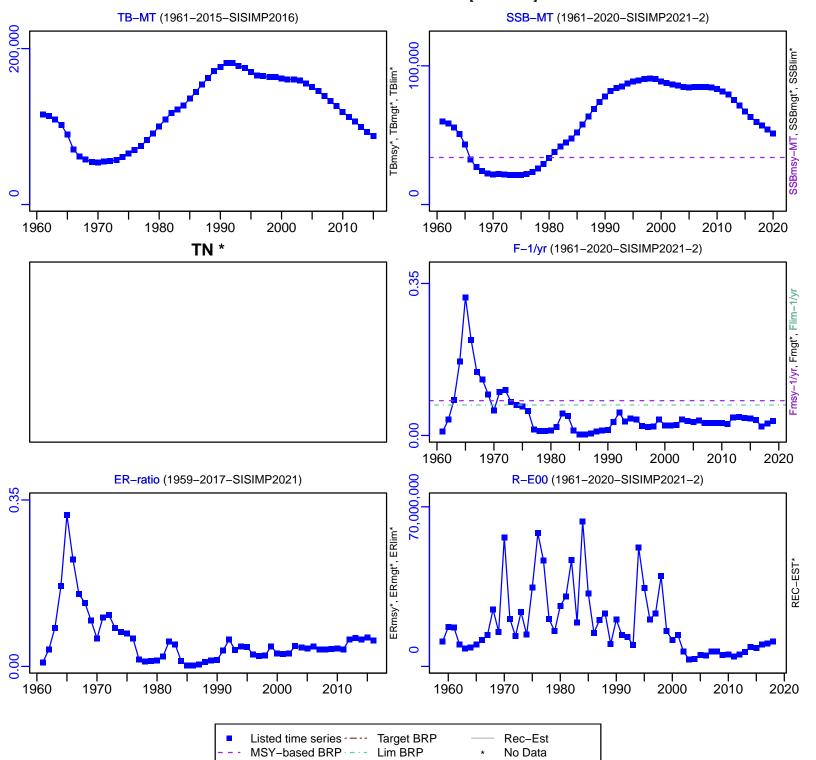


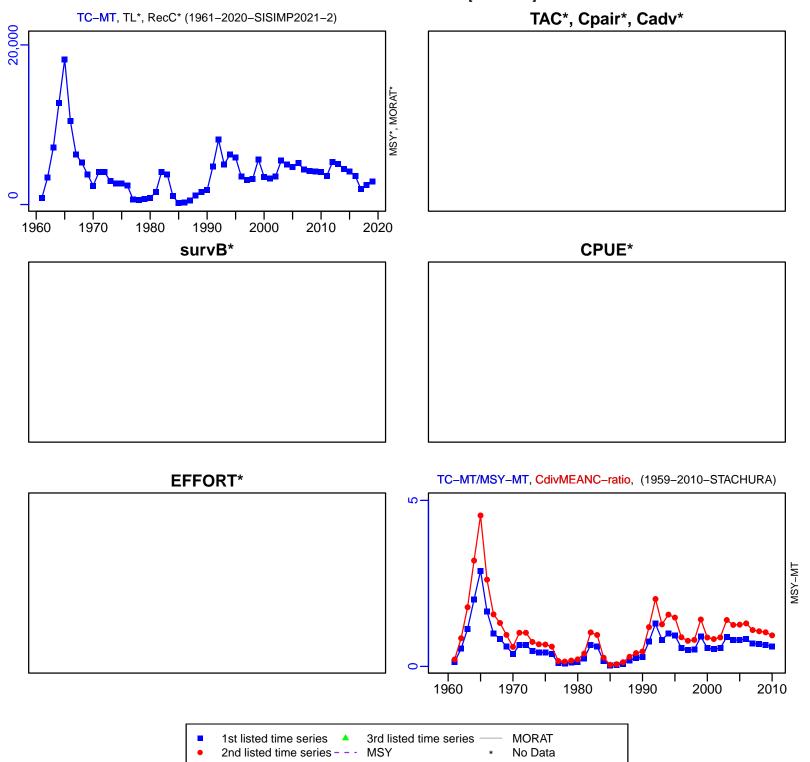
Metadata			
Scientific Name	Sebastes polyspinis		
Current Assess ID	AFSC-NROCKGA-1961-2020-SISIMP2021-2		
Area	Gulf of Alaska		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2016, 2017, 2018, 2015, 2018, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2010	64,270	
SSBmsy	SSBmsy-MT	2020	28,200	
Fmsy	Fmsy-1/yr	2020	0.073	
ERmsy	ERmsy-ratio	2010	0.094	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	6070	
М	M-1/yr	2010	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2020	0.064	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	81,900	-	2+
SSB	SSB-MT	2020	42,600	-	-
TN	-	-	-	-	-
R	R-E00	2020	10,500,000	-	2
F	F-1/yr	2020	0.03	-	-
ER	ER-ratio	2017	0.054	-	-
TC	TC-MT	2020	2750		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.603		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.511		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.416		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.366		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







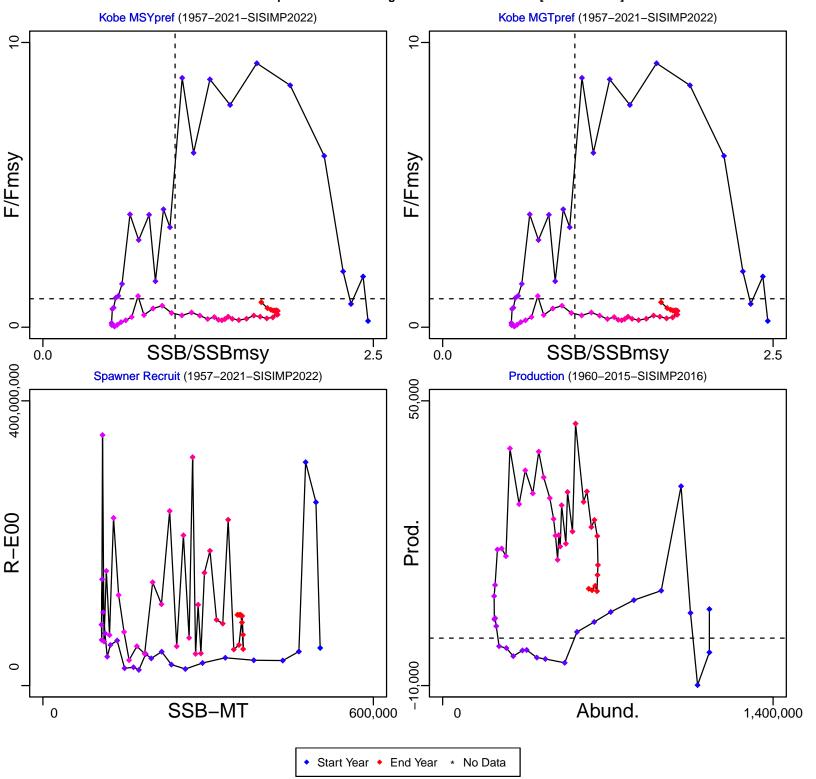
Pacific ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]

Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID	AFSC-PERCHEBSAI-1957-2021-SISIMP2022		
Area	ea Eastern Bering Sea and Aleutian Islands		
Management Authority National Marine Fisheries Service, US national management			
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2016, 2017, 2018, 2021, 2011, 2015, 2018, 2020		

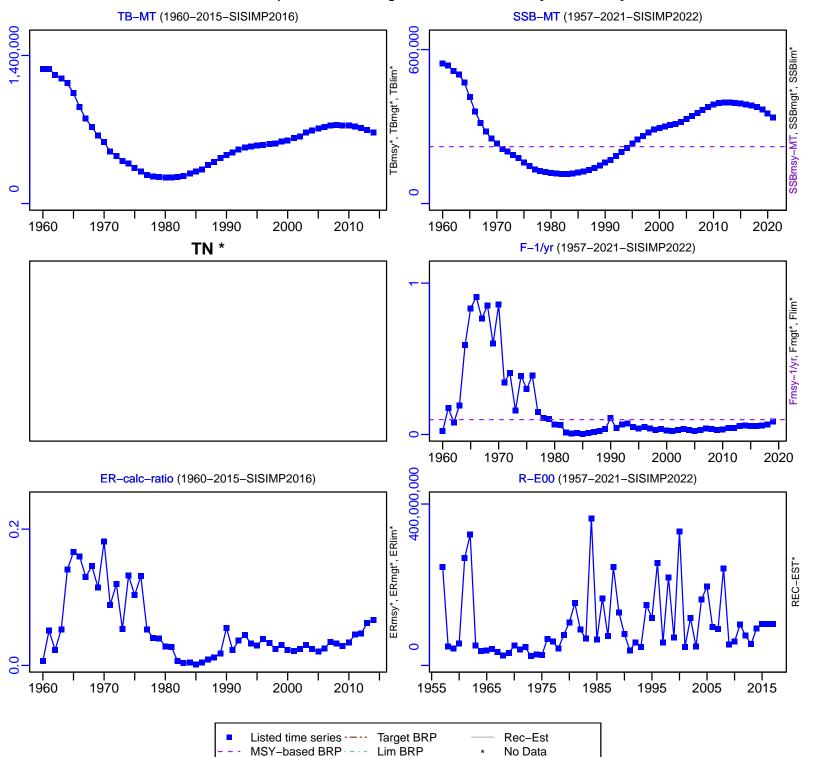
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2021	204,661		
Fmsy	Fmsy-1/yr	2021	0.089		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2011	0.062		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	Flim-1/yr	2020	0.111		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	598,000	Both	3+
SSB	SSB-MT	2021	310,036	Females	-
TN	-	-	-	-	-
R	R-E00	2021	99,395,000	-	3
F	F-1/yr	2021	0.078	-	-
ER	ER-calc-ratio	2015	0.054	-	-
TC	TC-MT	2021	40,417		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.515		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.877		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

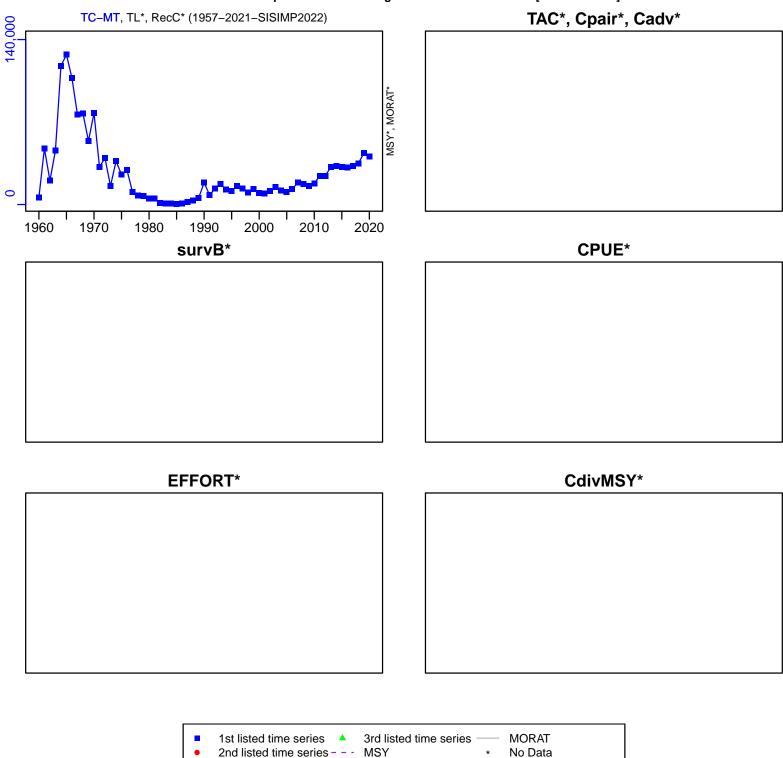
Pacific ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]



Pacific ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]



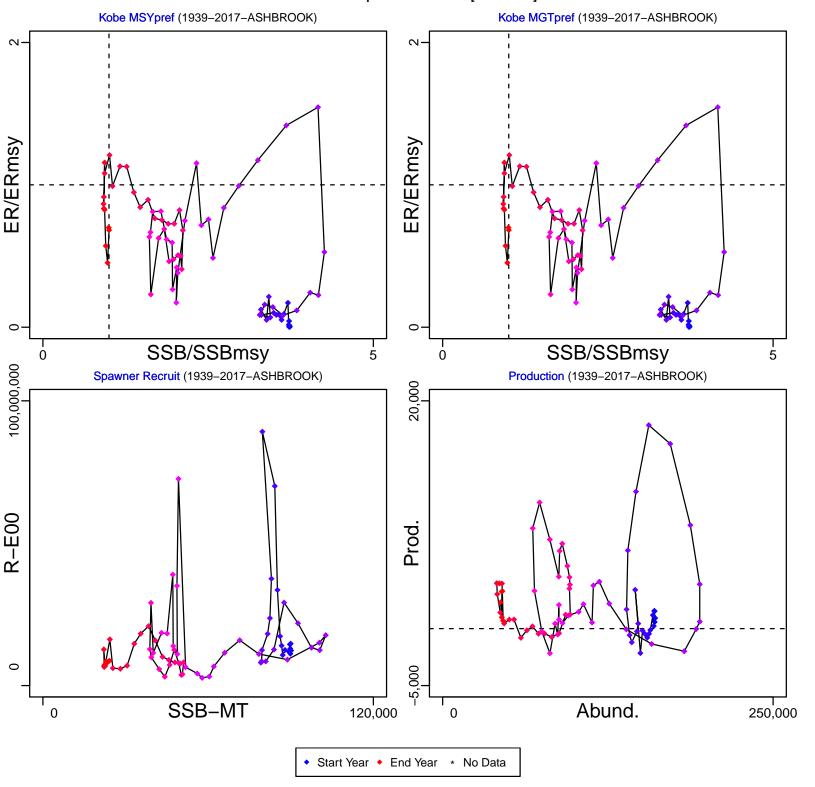
Pacific ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]

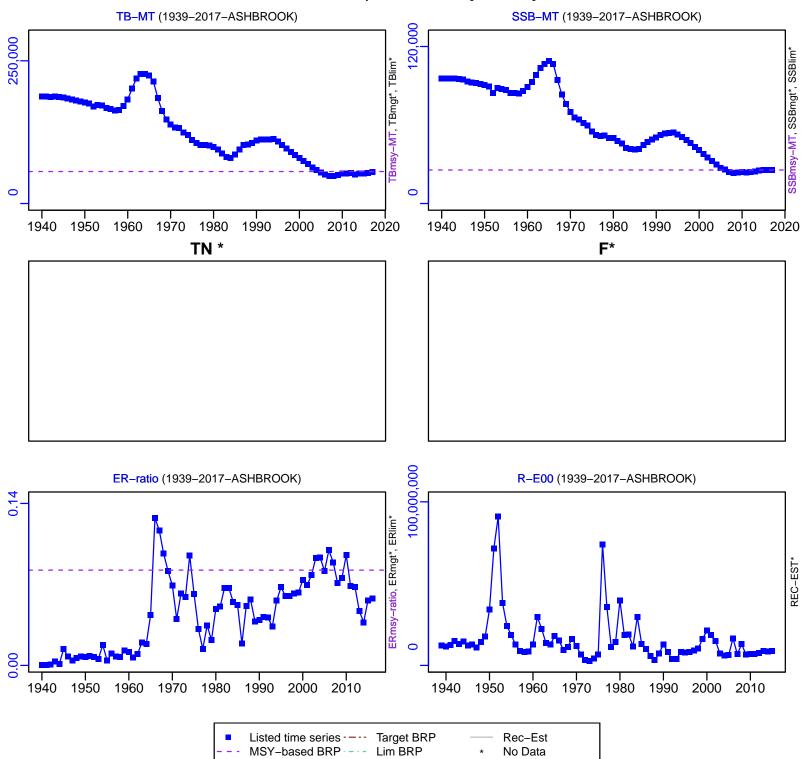


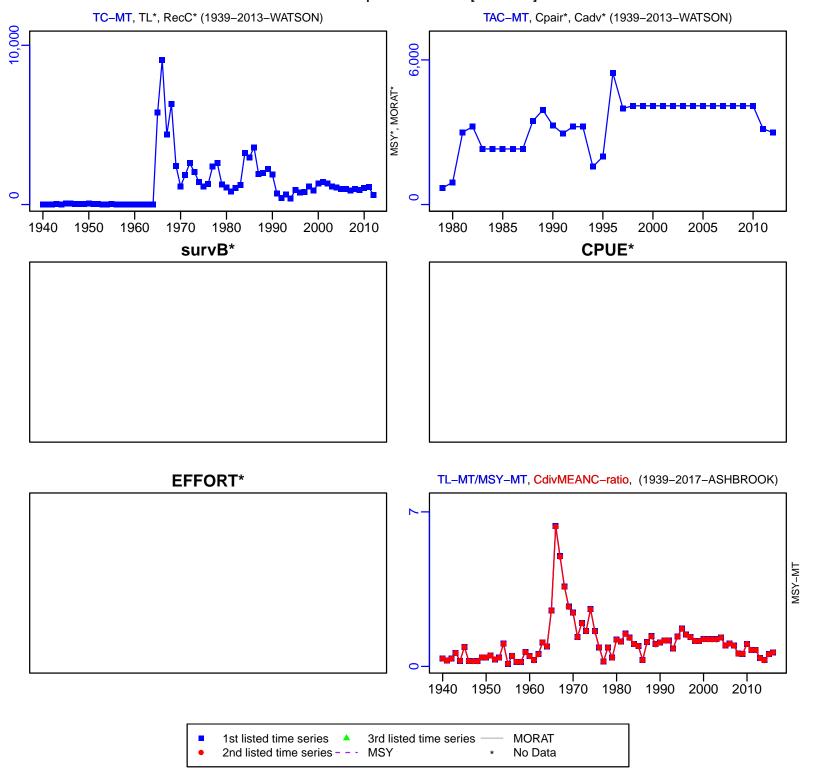
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID	DFO-PAC-PERCHHG-1939-2017-ASHBROOK		
Area Haida Gwaii			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Pacific Region		
Asmts in RAM	2017, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2017	47,982	
SSBmsy	SSBmsy-MT	2017	24,116	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2017	0.08	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2017	160,337	
SSB0	SSB0-MT	2017	89,993	
MSY	MSY-MT	2017	3843	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	47,272	Both	-
SSB	SSB-MT	2017	24,302	Both	-
TN	-	-	-	-	-
R	R-E00	2017	8,720,469	Both	1
F	-	-	-	-	-
ER	ER-ratio	2017	0.056	Both	-
TC	TC-MT	2013	584		
TL	TL-MT	2017	2279		
TB/TBmsy	TB-MT/TBmsy-MT	2017	0.985		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.008		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.7		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



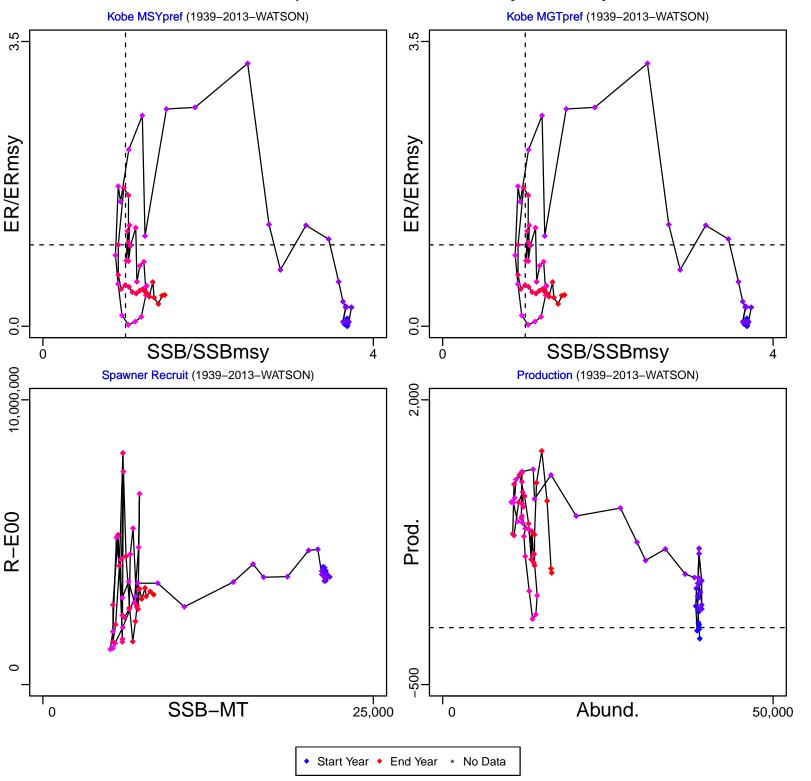


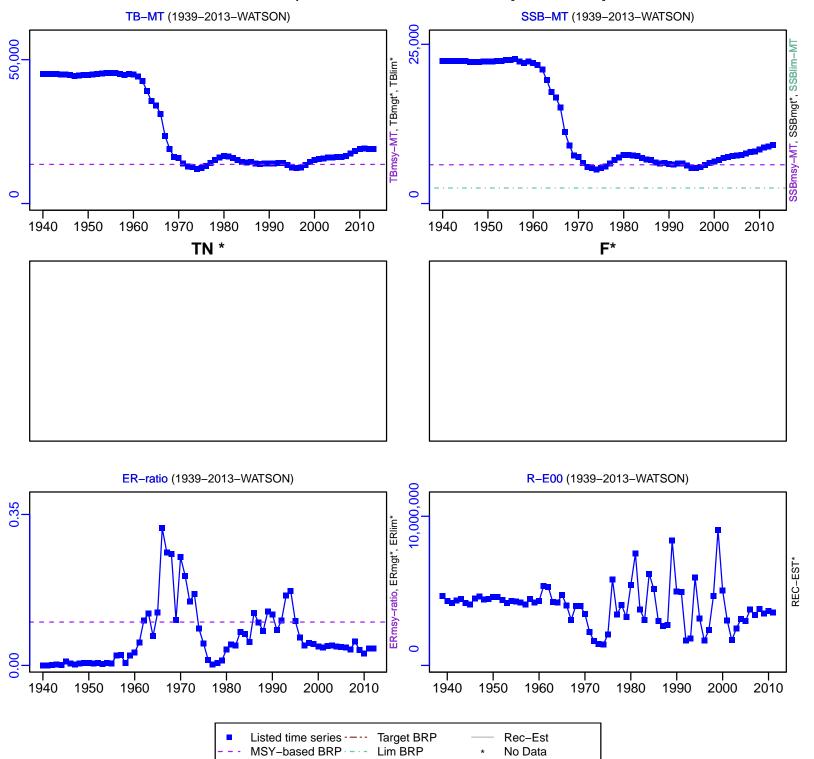


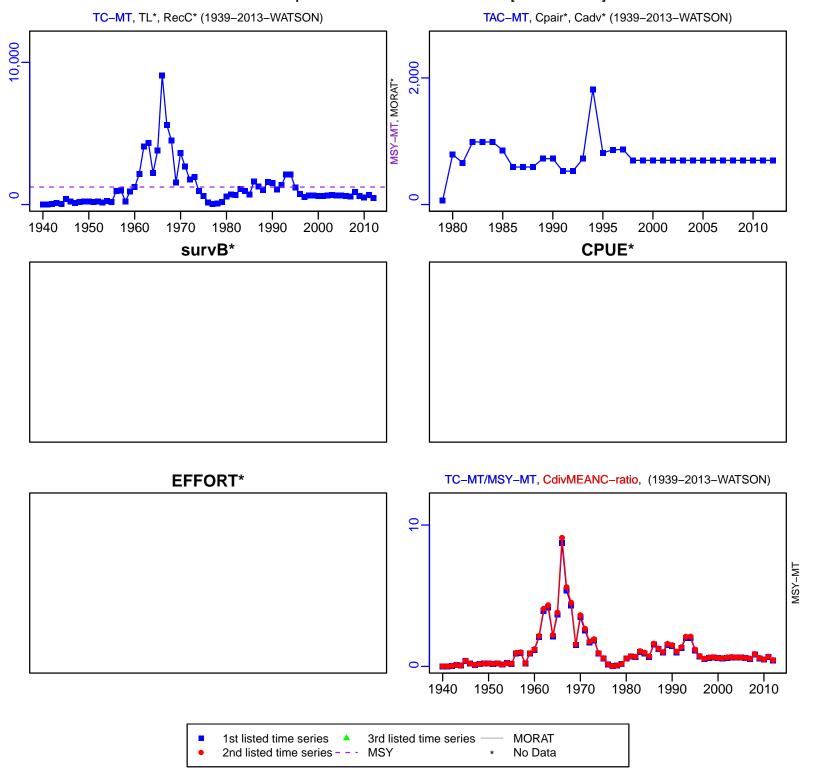
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID	DFO-PERCHWCVANI-1939-2013-WATSON		
Area West Coast of Vancouver Island			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2013		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2013	11,729		
SSBmsy	SSBmsy-MT	2013	5809		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.091		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2013	21,442		
MSY	MSY-MT	2013	1048		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2013	2324		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	16,400	Both	-
SSB	SSB-MT	2013	8740	Females	10 to 20
TN	-	-	-	-	-
R	R-E00	2013	3,160,000	-	1
F	-	-	-	-	-
ER	ER-ratio	2013	0.035	-	-
TC	TC-MT	2013	382		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.53		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.505		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2013	0.384		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



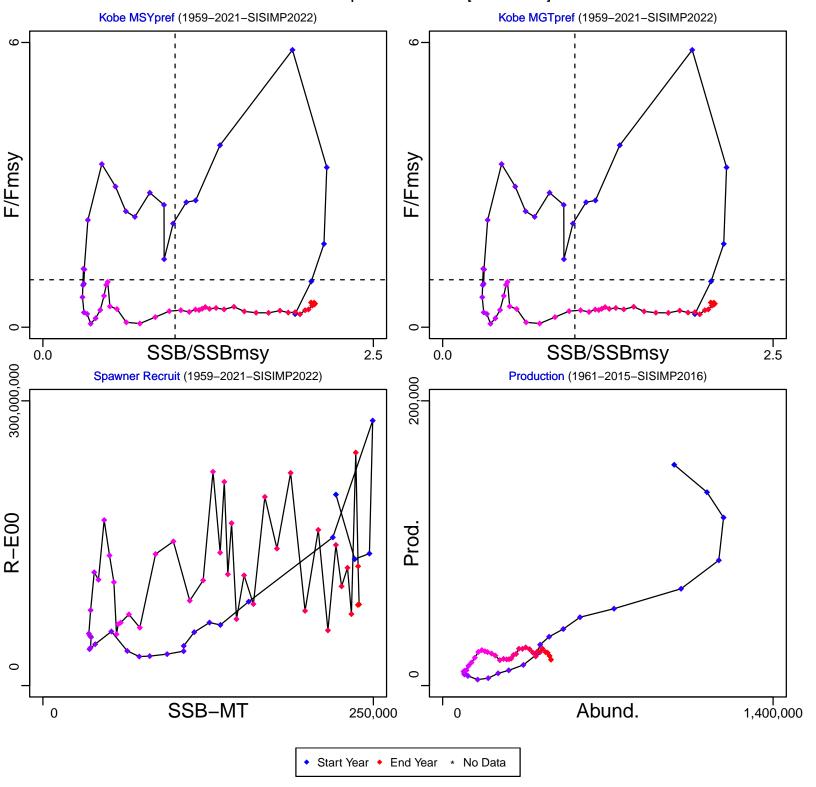


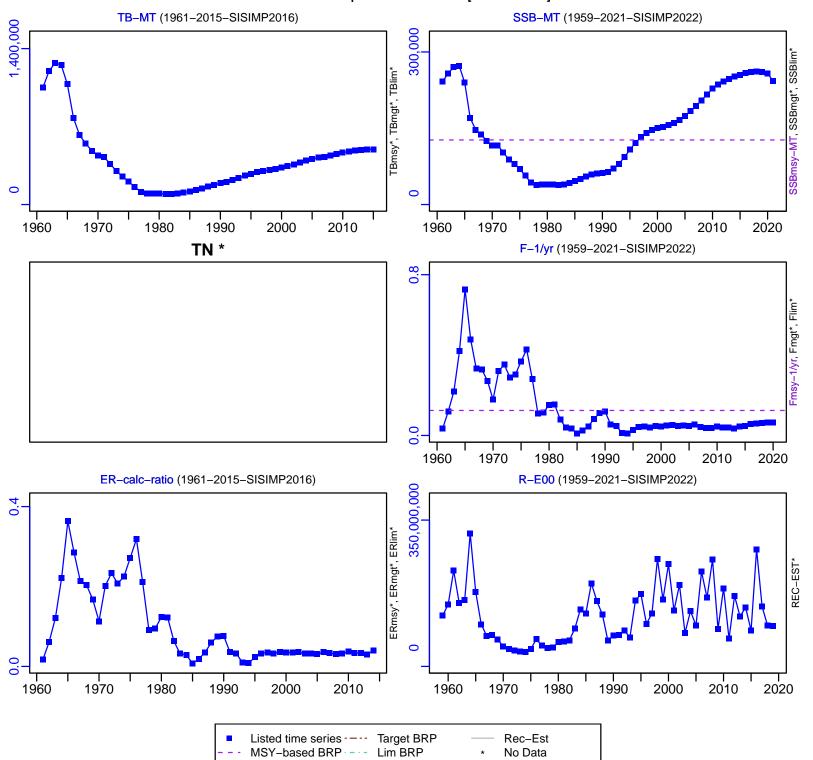


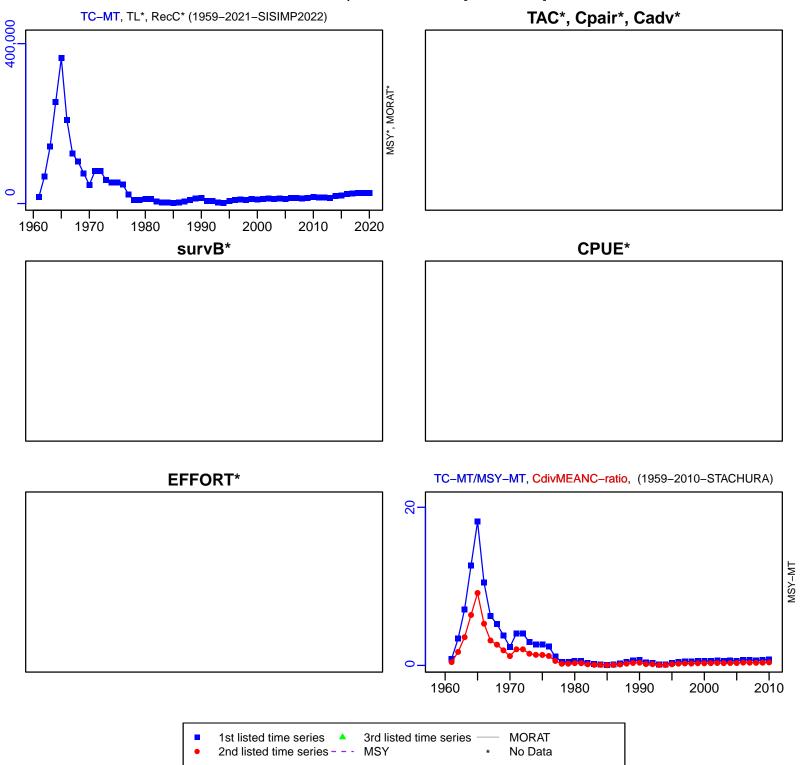
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID AFSC-POPERCHGA-1959-2021-SISIMP2022			
Area Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national manageme			
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2016, 2017, 2018, 2021, 2015, 2019, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2010	238,362	
SSBmsy	SSBmsy-MT	2021	116,171	
Fmsy	Fmsy-1/yr	2021	0.12	
ERmsy	ERmsy-ratio	2010	0.085	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	20,243	
М	M-1/yr	2010	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2020	0.1	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	462,000	Both	2+
SSB	SSB-MT	2021	222,301	-	-
TN	-	-	-	-	-
R	R-E00	2021	85,003,899	-	2
F	F-1/yr	2021	0.062	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2021	25,191		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.914		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.52		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.511		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







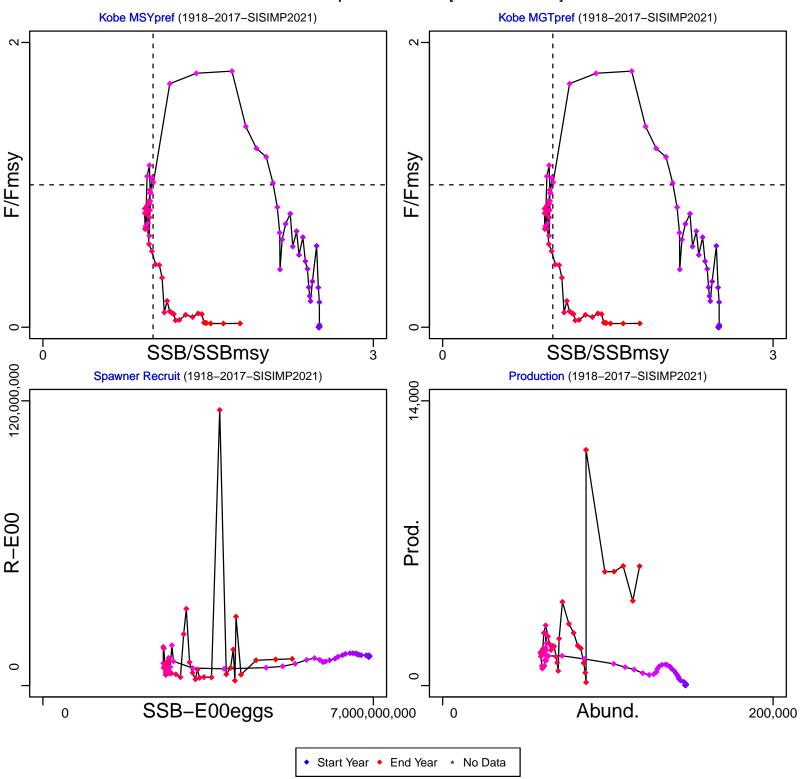
Pacific ocean perch Pacific Coast [POPERCHPCOAST]

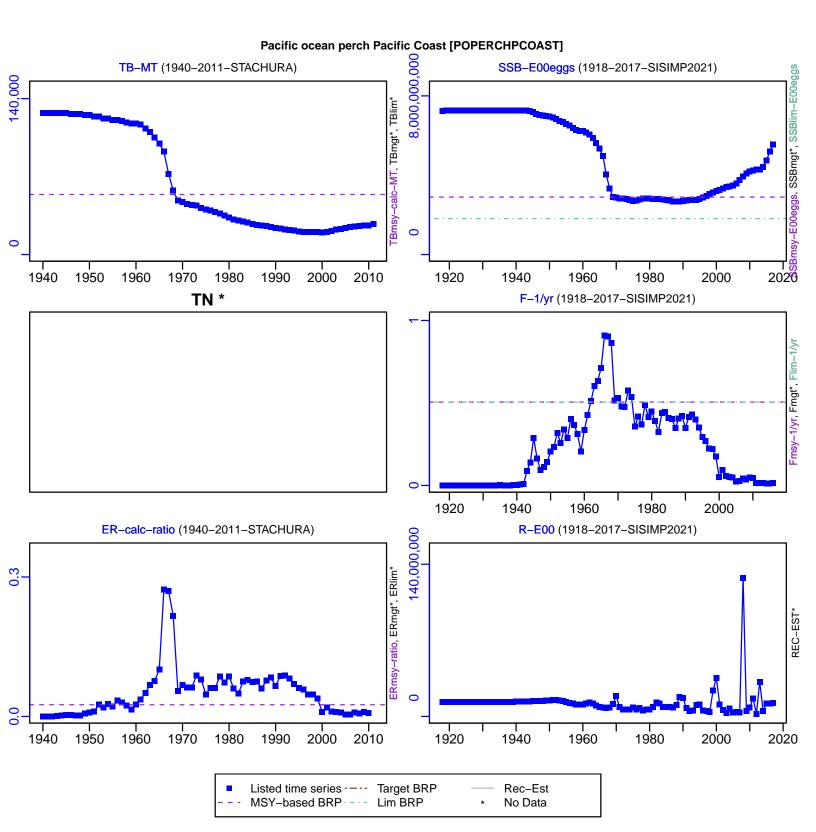
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID NWFSC-POPERCHPCOAST-1918-2017-SISIMP2021			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2017, 2011		

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	50,381
SSBmsy	SSBmsy-E00eggs	2017	2,755,667,969
Fmsy	Fmsy-1/yr	2017	0.5
ERmsy	ERmsy-ratio	2011	0.021
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-E00eggs	2011	6.56×10^{12}
MSY	MSY-MT	2017	1808
M	M-1/yr	2011	0.05
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2017	1,722,292,969
Flim	Flim-1/yr	2017	0.5
ERlim	-	-	-

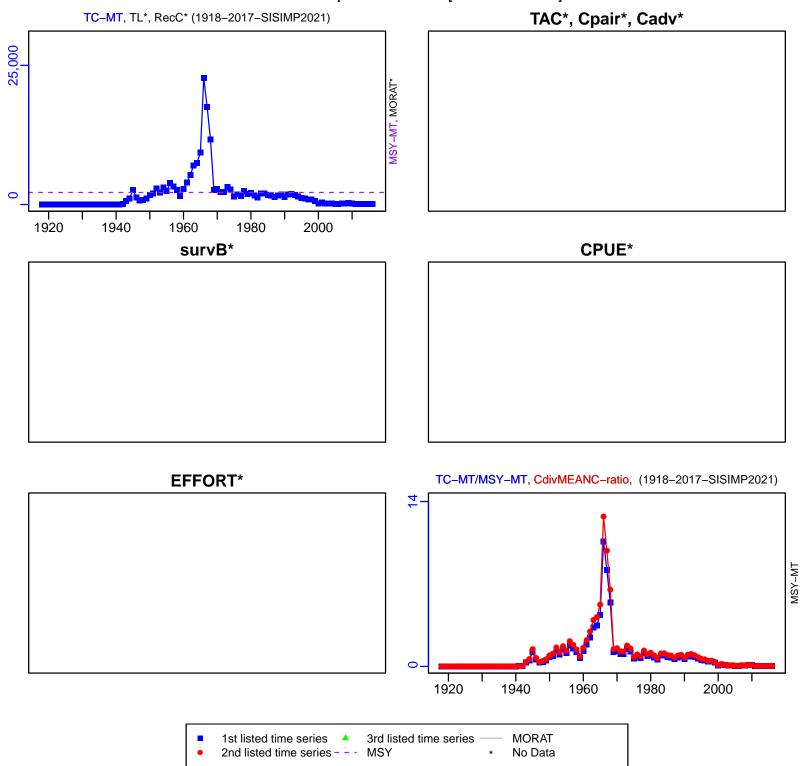
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	128,529	-	-
SSB	SSB-E00eggs	2017	5,280,380,000	-	-
TN	-	-	-	-	-
R	R-E00	2017	11,253,100	-	0
F	F-1/yr	2017	0.013	-	-
ER	ER-calc-ratio	2017	0.001	-	-
TC	TC-MT	2017	68		
TL	TL-MT	2011	91	1	
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.506		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2017	1.916		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.027		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.275		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific ocean perch Pacific Coast [POPERCHPCOAST]





Pacific ocean perch Pacific Coast [POPERCHPCOAST]



Metadata		
Scientific Name	Sebastes maliger	
Current Assess ID DFO-QROCKPCOASTIN-1918-2010-WATSON		
Area Pacific Coast of Canada (Inside)		
Management Authority Department of Fisheries and Oceans, Canada national management		
Assessor Department of Fisheries and Oceans		
Asmts in RAM	2010	

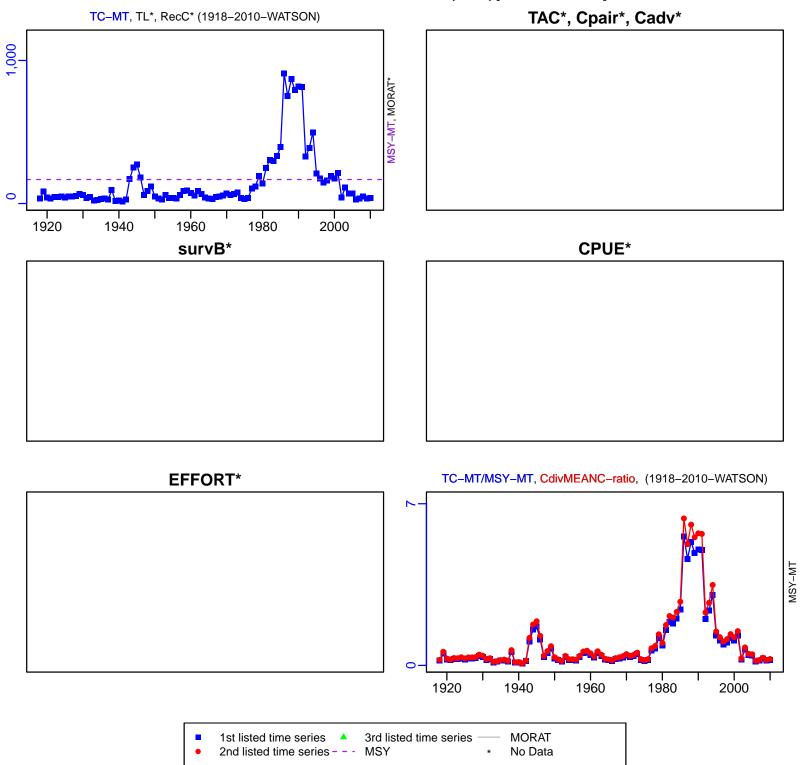
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	144	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	34		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata		
Scientific Name	Sebastes maliger	
Current Assess ID DFO-QROCKPCOASTOUT-1918-2010-WATSON		
Area Pacific Coast of Canada (Outside)		
Management Authority Department of Fisheries and Oceans, Canada national managem		
Assessor Department of Fisheries and Oceans		
Asmts in RAM	2010	

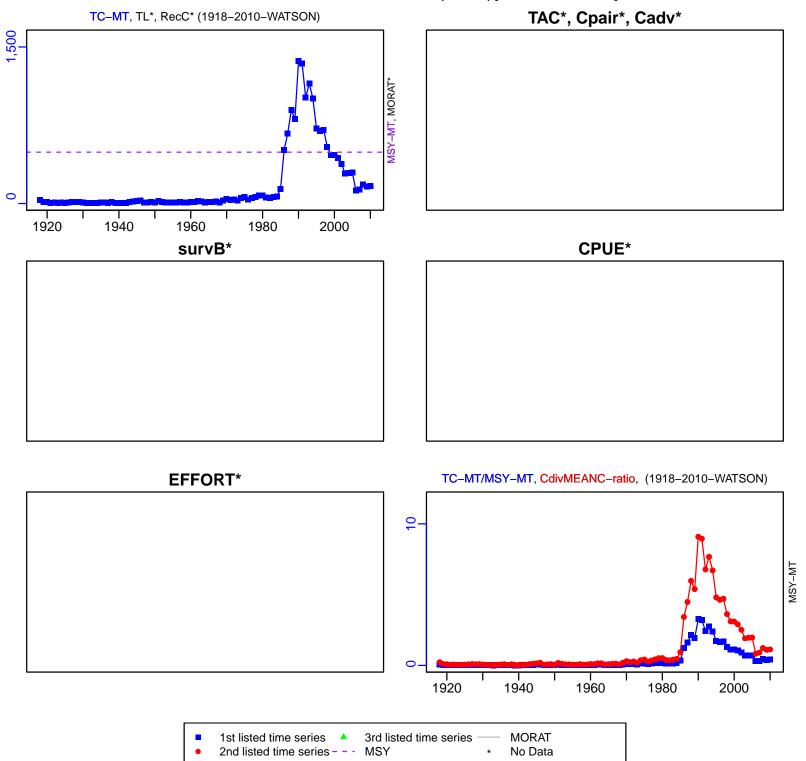
Reference Points					
Туре	Type ID Asmt Year				
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	462		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	159		
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 Lii	rrget BRP — Rec-Est m BRP * No Data

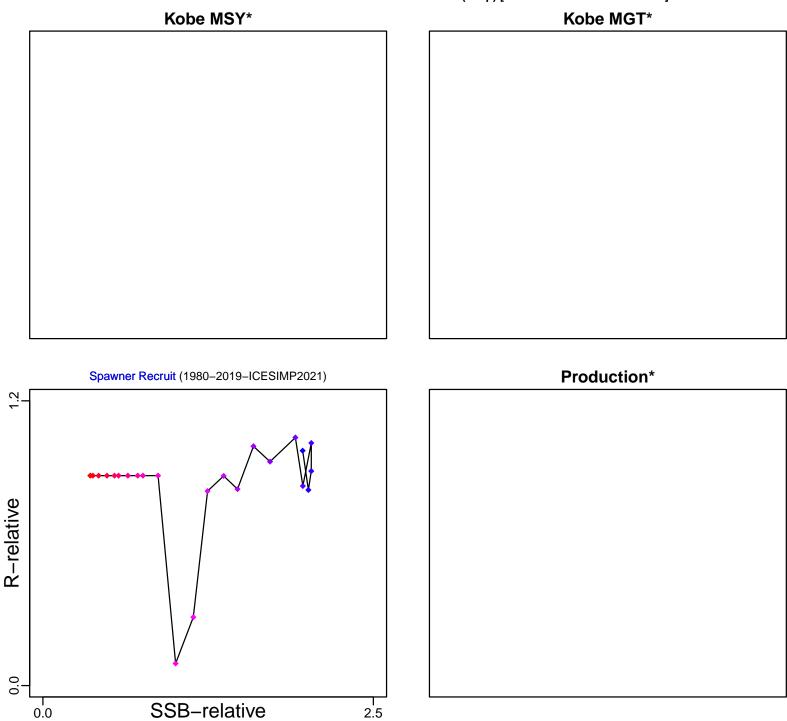


Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep) [REDDEEPDP-1-2-V-XII-XIV]

Metadata			
Scientific Name	Sebastes mentella		
Current Assess ID	urrent Assess ID NWWG-REDDEEPDP-1-2-V-XII-XIV-1980-2019-ICESIMP202		
Area ICES 5-12-14 and NAFO Subareas 1-2 (deep)			
Management Authority International Council for the Exploration of the Sea			
Assessor	North-Western Working Group		
Asmts in RAM	2016, 2019		

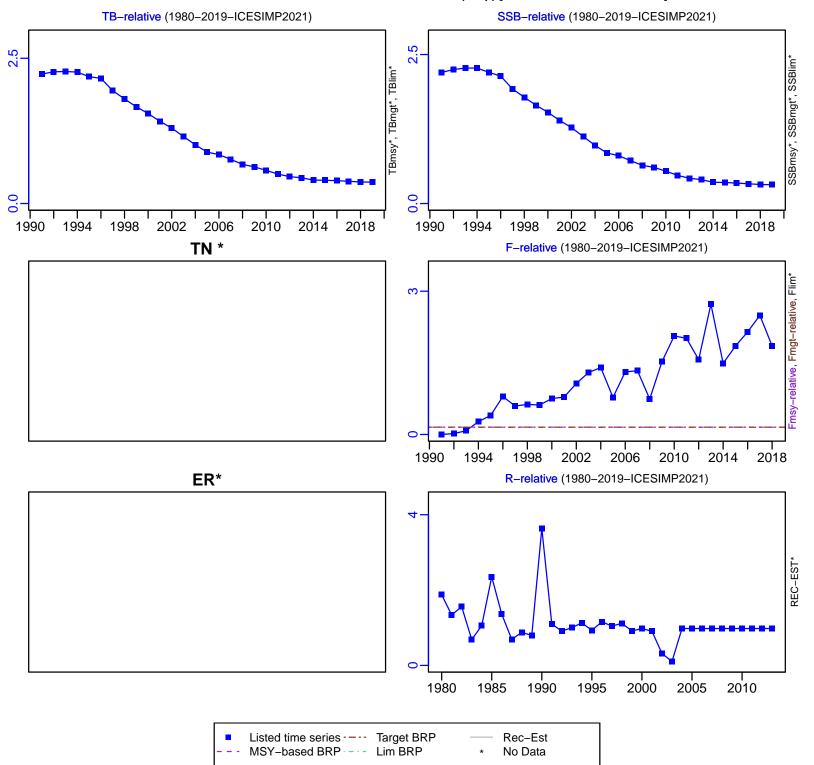
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-relative	2019	0.131	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-relative	2019	0.131	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-relative	2016	0.779	
Flim	Flim-relative	2016	0.24	
ERlim	-	-	-	

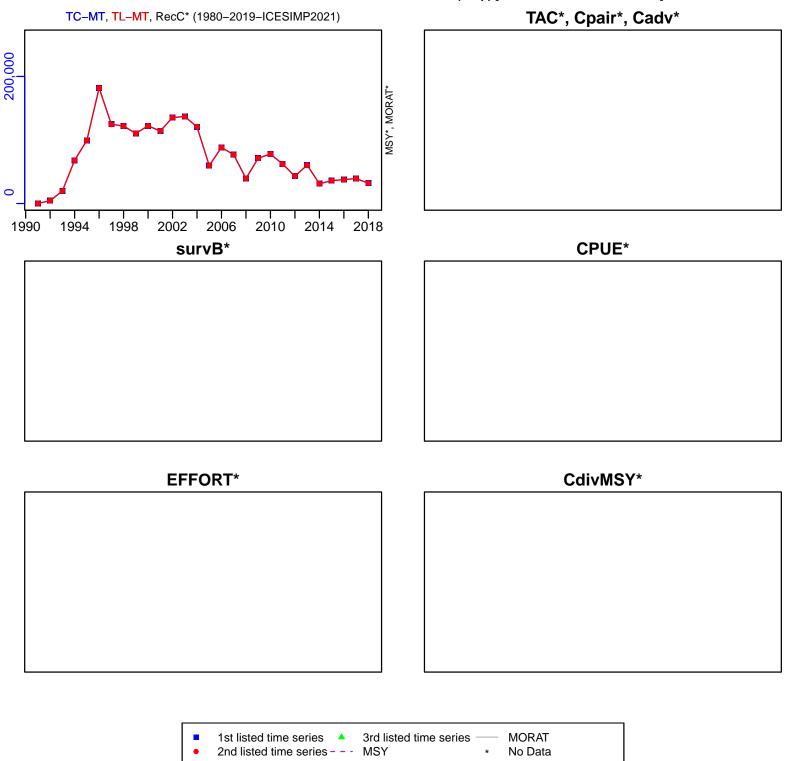
	Т	ime Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-relative	2019	0.321	-	-
SSB	SSB-relative	2019	0.282	-	-
TN	-	-	-	-	-
R	R-relative	2019	0.885	-	5
F	F-relative	2019	1.593	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	24,453		
TL	TL-MT	2019	24,453		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data

Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep) [REDDEEPDP-1-2-V-XII-XIV]



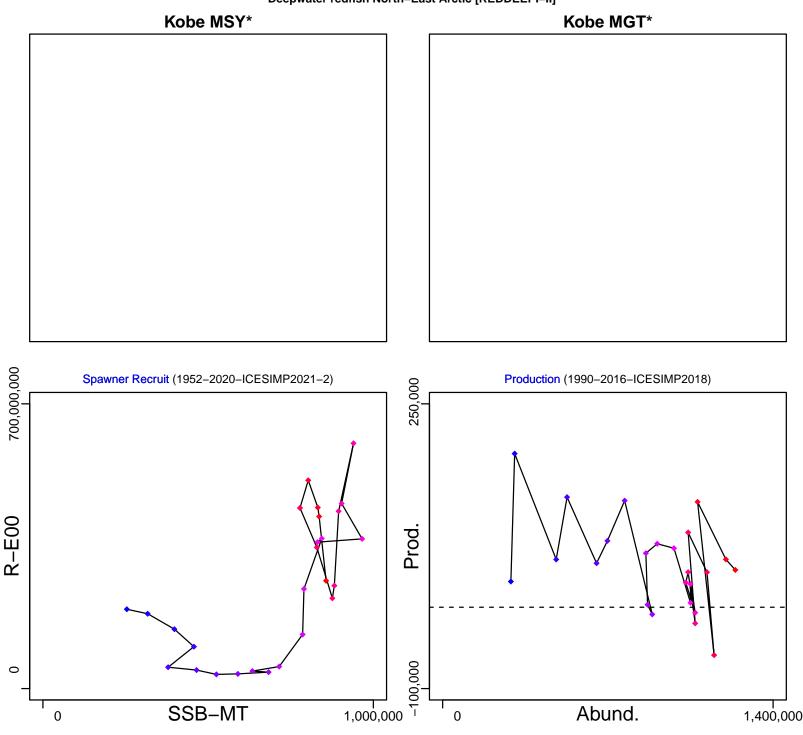


Deepwater redfish North-East Arctic [REDDEEPI-II]

	Metadata
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPI-II-1952-2020-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2006, 2018, 2020, 2014, 2016

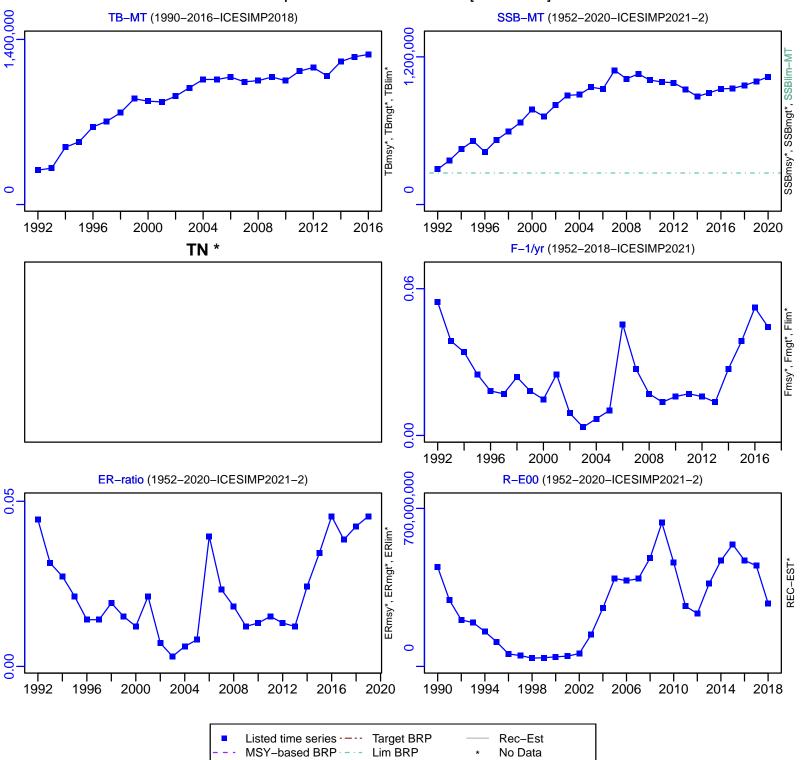
	Reference	e Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	227,000
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	1,260,000	Both	-
SSB	SSB-MT	2020	918,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.65×10^{8}	-	2
F	F-1/yr	2018	0.039	-	19+
ER	ER-ratio	2020	0.045	-	-
TC	TC-MT	2020	46,000		
TL	TL-MT	2018	31,201		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

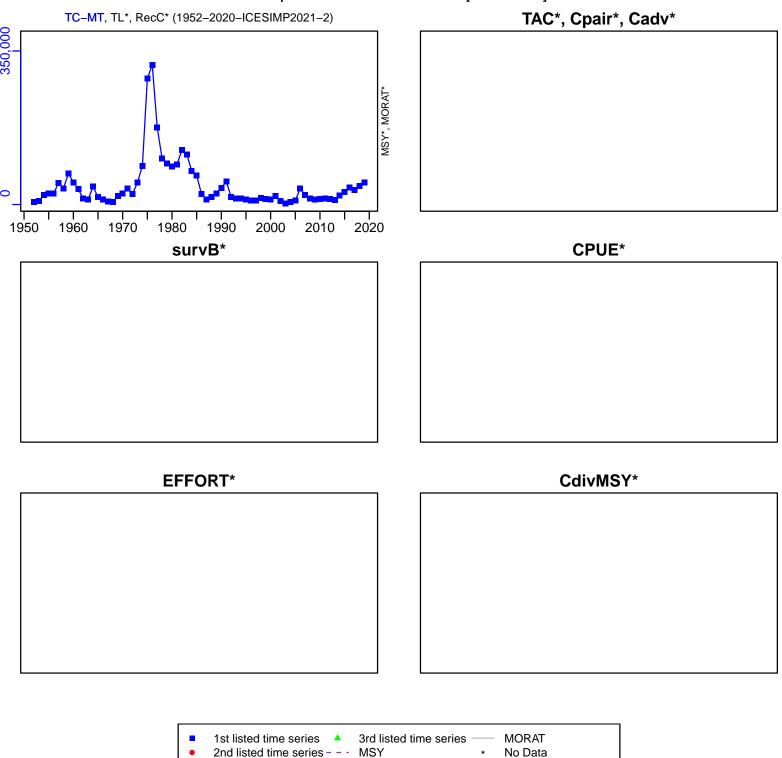


Start Year • End Year • No Data

Deepwater redfish North-East Arctic [REDDEEPI-II]



Deepwater redfish North-East Arctic [REDDEEPI-II]



Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (shallow) [REDDEEPSH1-2-V-XII-XIV]

Metadata		
Scientific Name	Sebastes mentella	
Current Assess ID	NWWG-REDDEEPSH1-2-V-XII-XIV-1982-2018-ICESIMP2021	
Area	ICES 5-12-14 and NAFO Subareas 1-2 (shallow)	
Management Authority	International Council for the Exploration of the Sea	
Assessor	North-Western Working Group	
Asmts in RAM	2016, 2018	

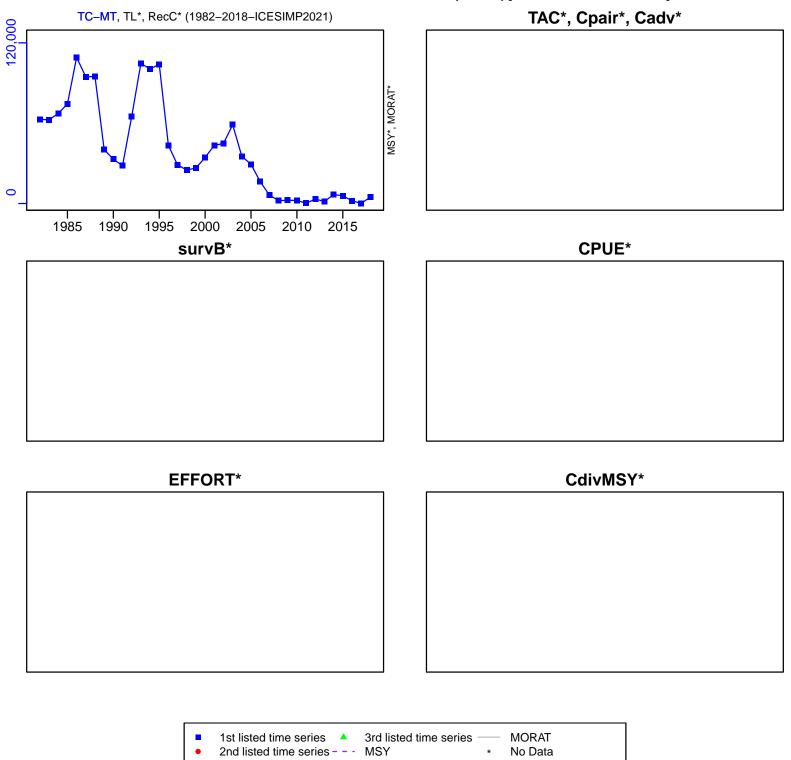
F	efere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-		-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	4599		
TL	TL-MT	2016	5600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
O D 144	.
Spawner Recruit*	Production*

◆ Start Year ◆ End Year ∗ No Data

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



Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPVa-XIV-1978-2017-ICESIMP2018
Area	ICES 5a-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016, 2016, 2017

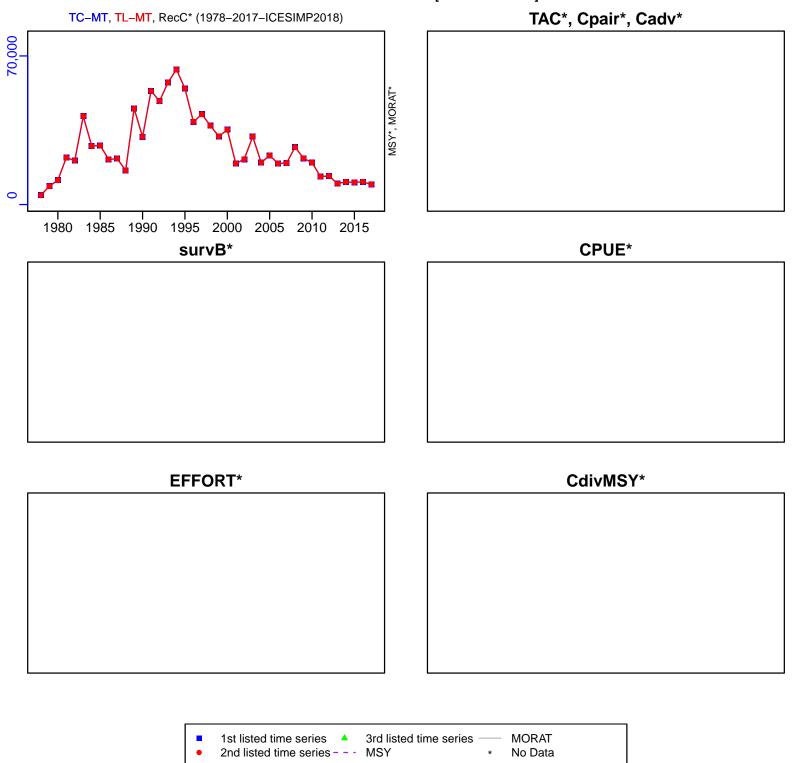
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	8370		
TL	TL-MT	2017	8370	1	
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 im BRP * No Data



Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPXIVb-1974-2017-ICESIMP2018
Area	Southeast Greenland
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016, 2016, 2017

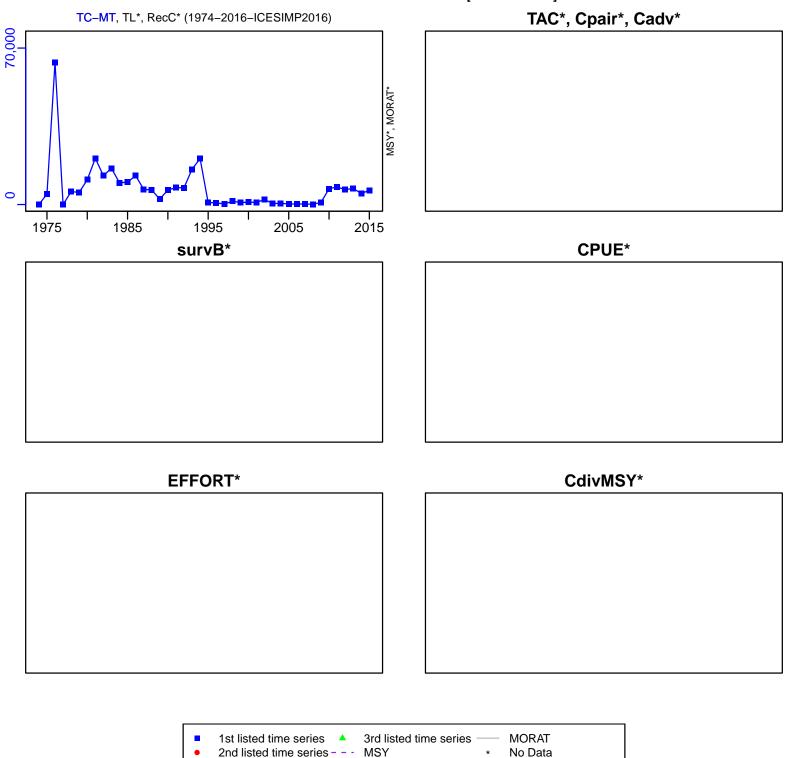
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5980		
TL	TL-MT	2017	3030		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

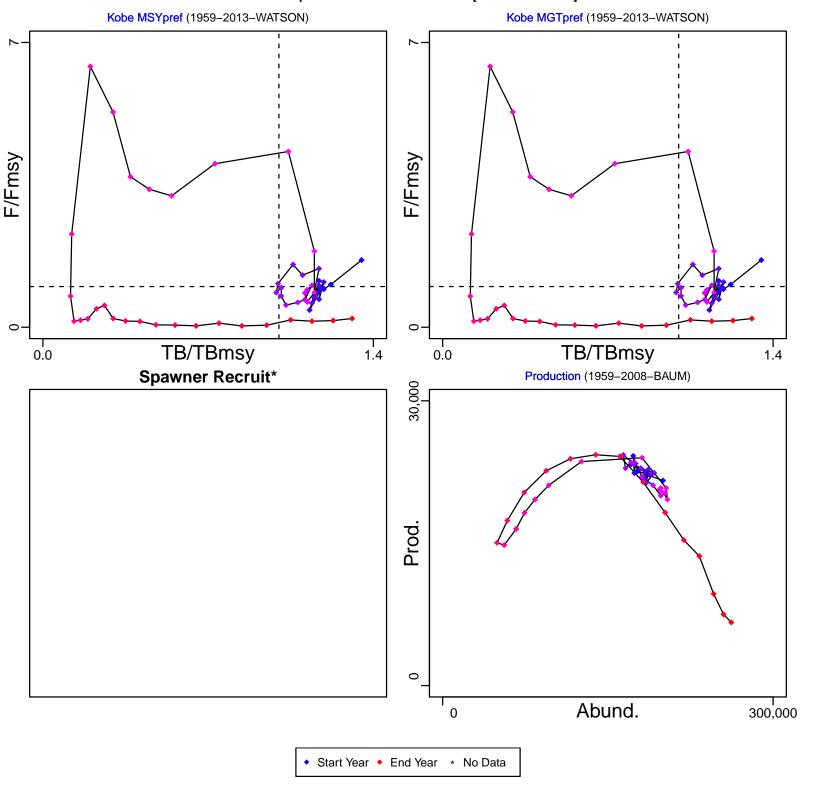
TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

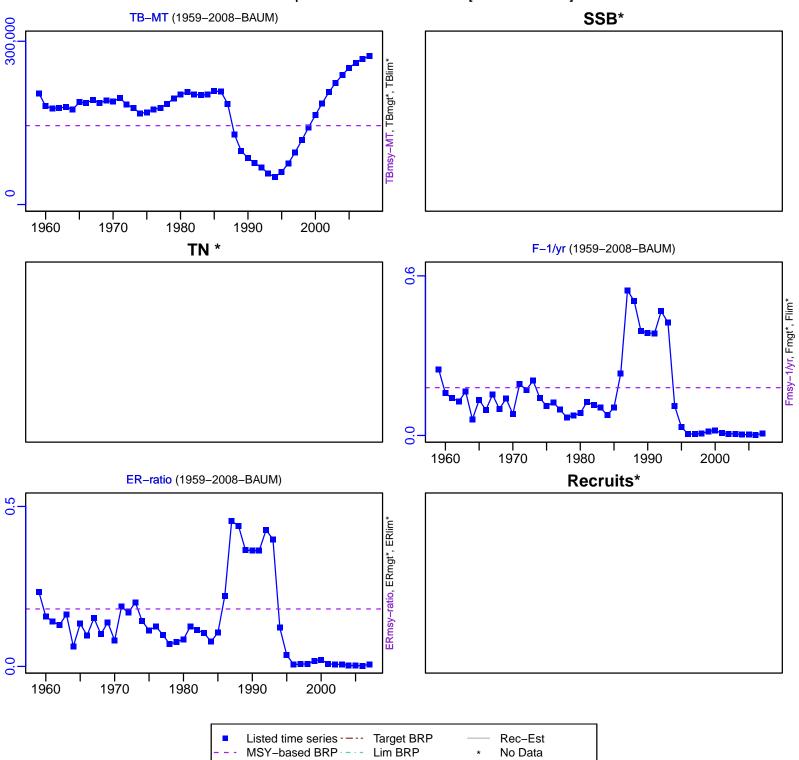


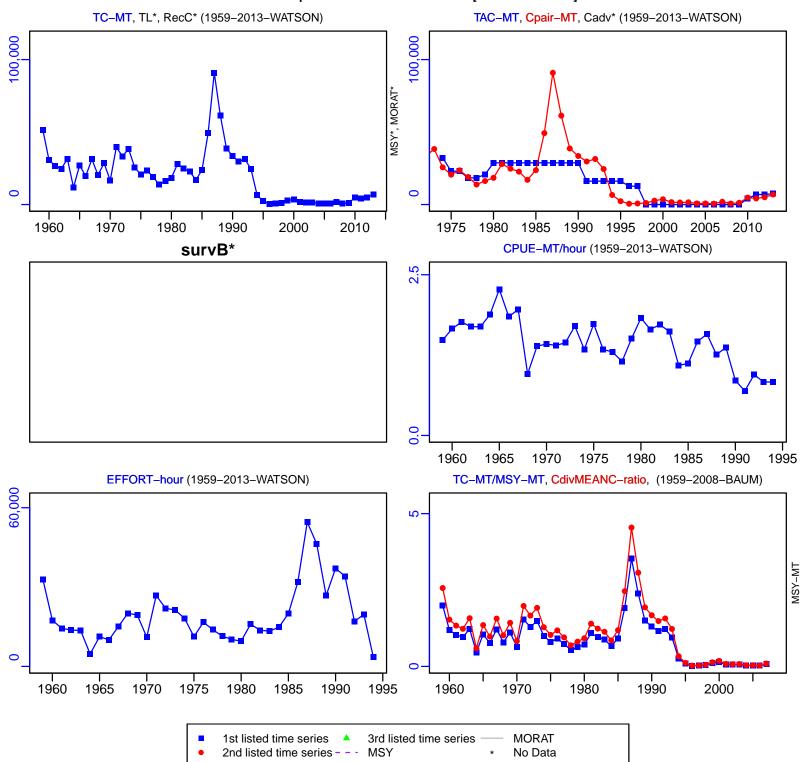
Metadata	
Scientific Name	Sebastes spp
Current Assess ID	NAFO-SC-REDFISHSPP3LN-1959-2013-WATSON
Area	N and SW Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2008, 2013

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2008	141,900		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2008	0.172		
ERmsy	ERmsy-ratio	2008	0.172		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2008	24,440		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	267,000	-	ALL AGES
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2008	0.007	Both	-
ER	ER-ratio	2008	0.006	-	-
TC	TC-MT	2013	6000		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.31		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2013	0.214		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.037		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





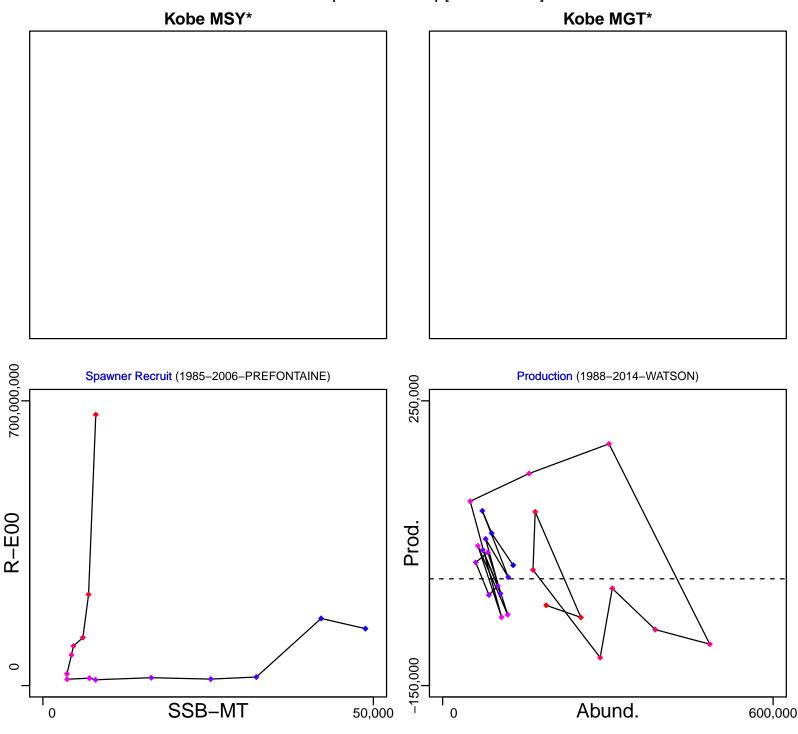


Redfish species Flemish Cap [REDFISHSPP3M]

Metadata			
Scientific Name	Sebastes spp		
Current Assess ID	NAFO-SC-REDFISHSPP3M-1988-2014-WATSON		
Area Flemish Cap			
Management Authority Northwest Atlantic Fisheries Organization			
Assessor NAFO Scientific Council			
Asmts in RAM 2006, 2014			

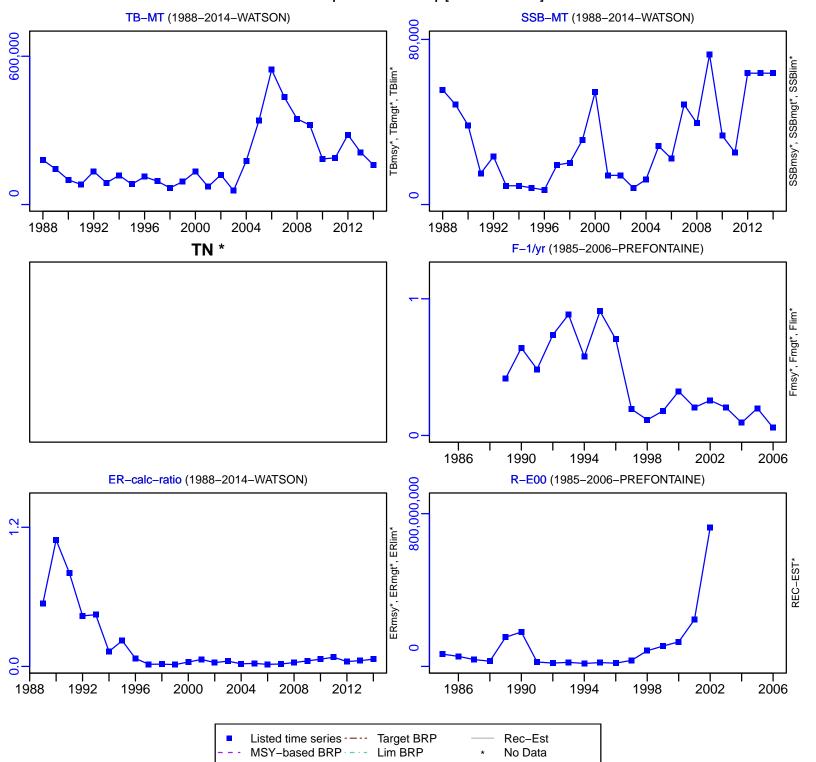
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2006	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	143,000	Both	-
SSB	SSB-MT	2014	63,000	Females	13+
TN	-	-	-	-	-
R	R-E00	2006	6.66×10^{8}	-	4
F	F-1/yr	2006	0.046	-	6 to 16
ER	ER-calc-ratio	2014	0.052	-	-
TC	TC-MT	2014	7400		
TL	TL-MT	2006	4120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

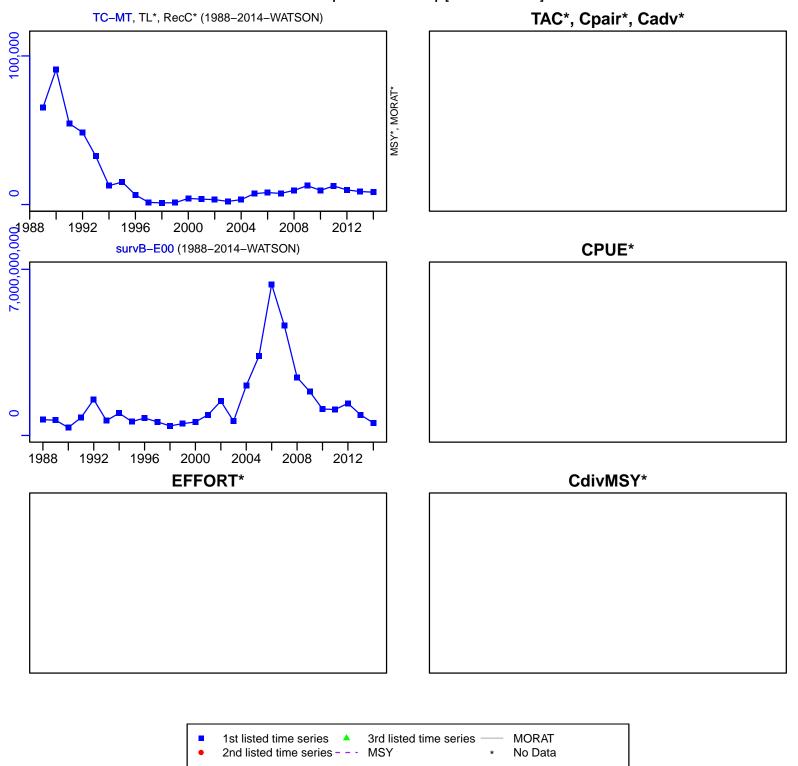


Start Year • End Year • No Data

Redfish species Flemish Cap [REDFISHSPP3M]



Redfish species Flemish Cap [REDFISHSPP3M]



Metadata		
Scientific Name	Sebastes spp	
Current Assess ID	DFO-REDFISHSPPUT1-1960-2017-ASHBROOK	
Area Unit 1		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor Department of Fisheries and Oceans		
Asmts in RAM	2017	

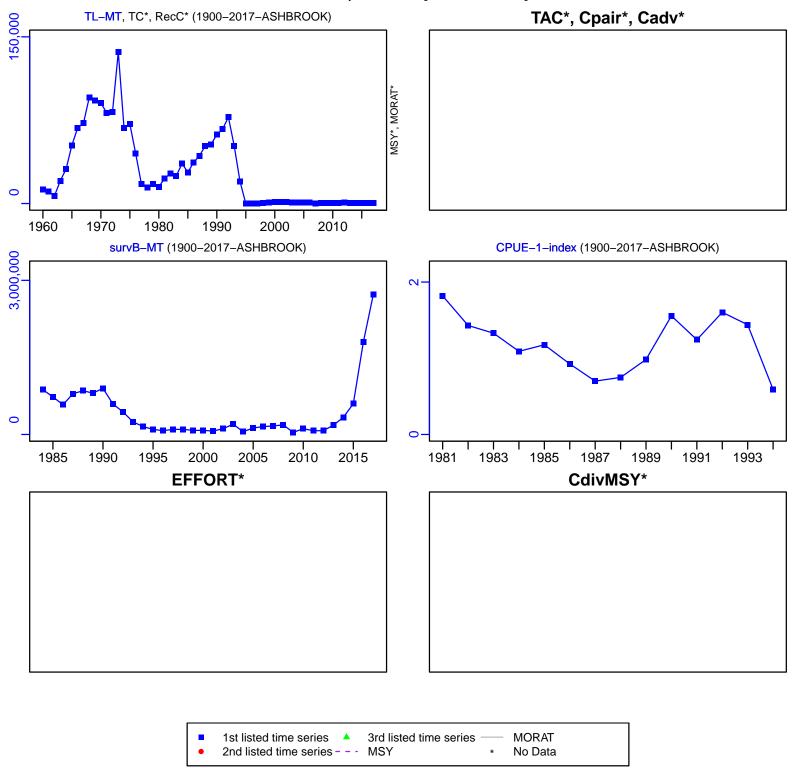
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	328		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata		
Scientific Name	Sebastes spp	
Current Assess ID	DFO-REDFISHSPPUT2-1960-2017-ASHBROOK	
Area	Unit 2	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2017	

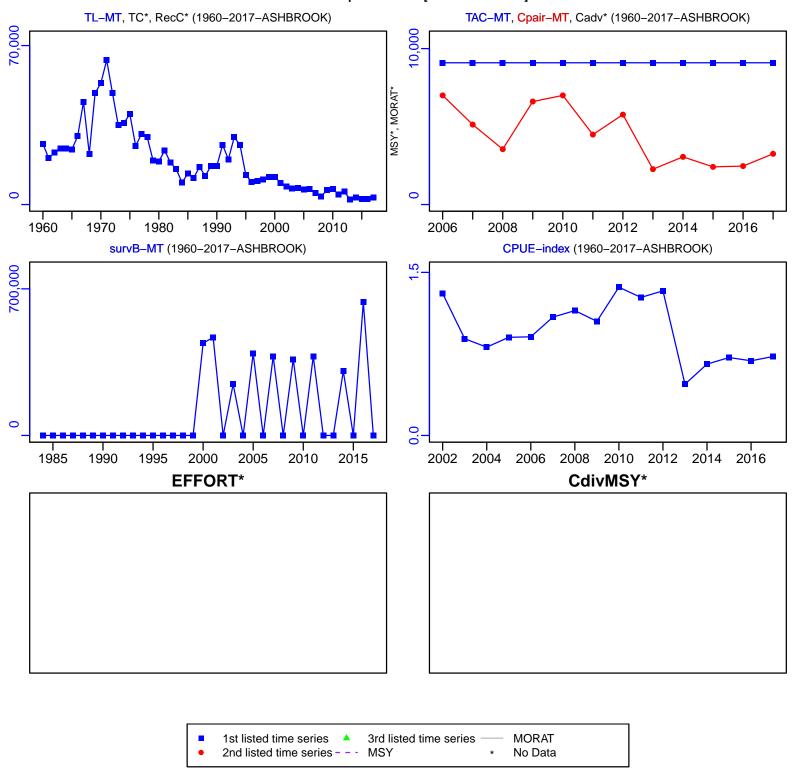
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	3042		
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

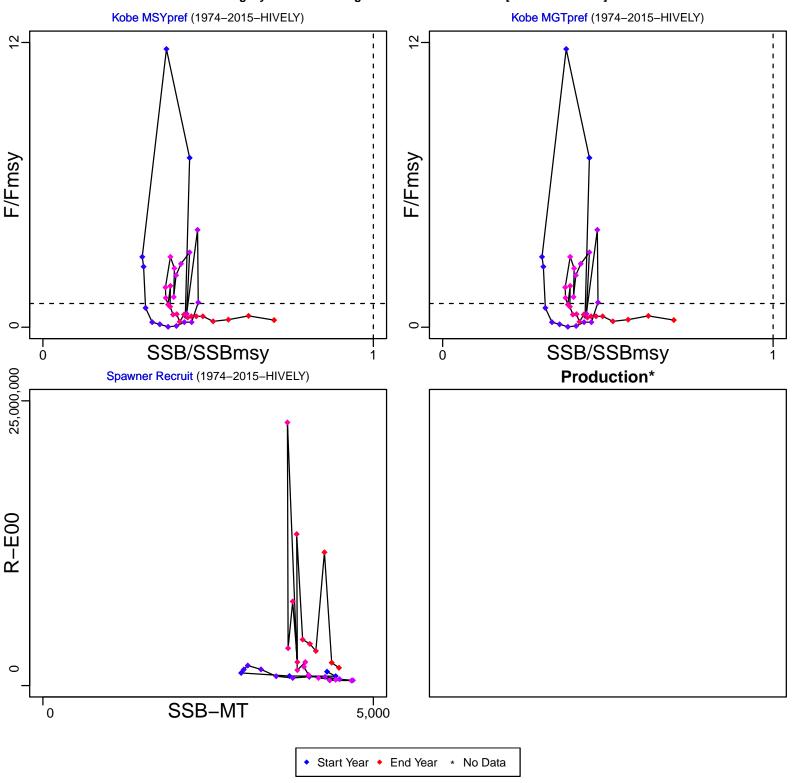
TB*	SSB*
Th	
TN *	F *
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

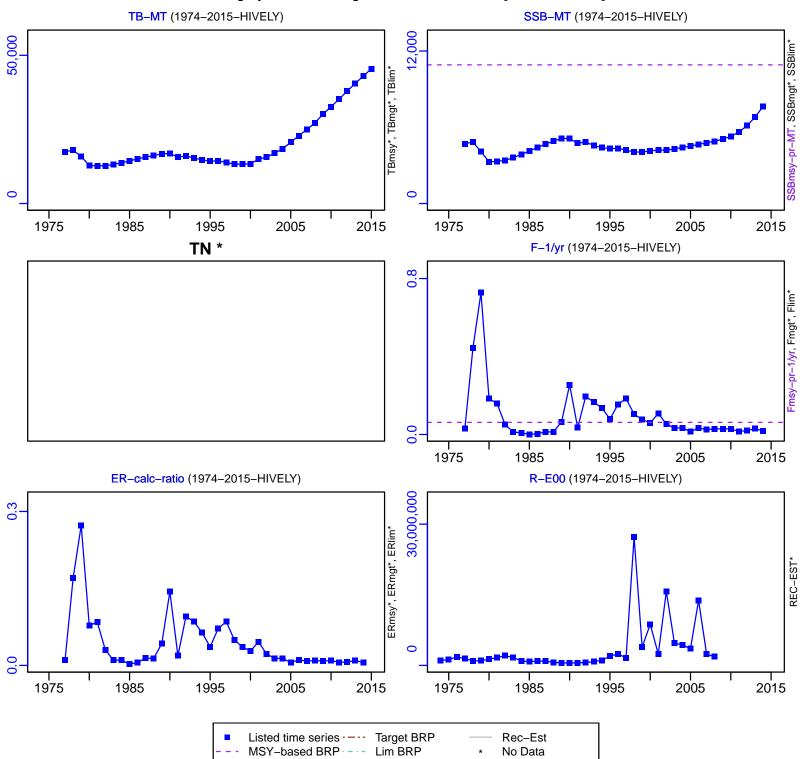


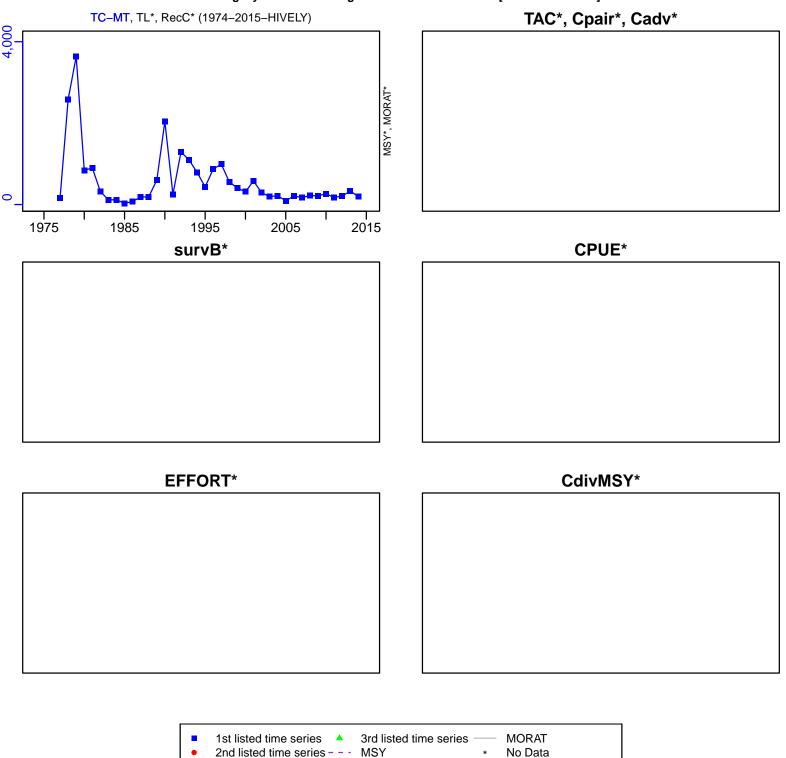
Metadata		
Scientific Name	Sebastes aleutianus	
Current Assess ID	AFSC-REYEROCKBSAI-1974-2015-HIVELY	
Area Bering Sea and Aleutian Islands		
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2015	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-pr-MT	2015	9977	
Fmsy	Fmsy-pr-1/yr	2015	0.058	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2015	0.03	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	40,400	Both	3+
SSB	SSB-MT	2015	6980	Females	3+
TN	-	-	-	-	-
R	R-E00	2015	1,560,000	-	3
F	F-1/yr	2015	0.017	-	-
ER	ER-calc-ratio	2015	0.005	-	-
TC	TC-MT	2015	194		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.7		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2015	0.3		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



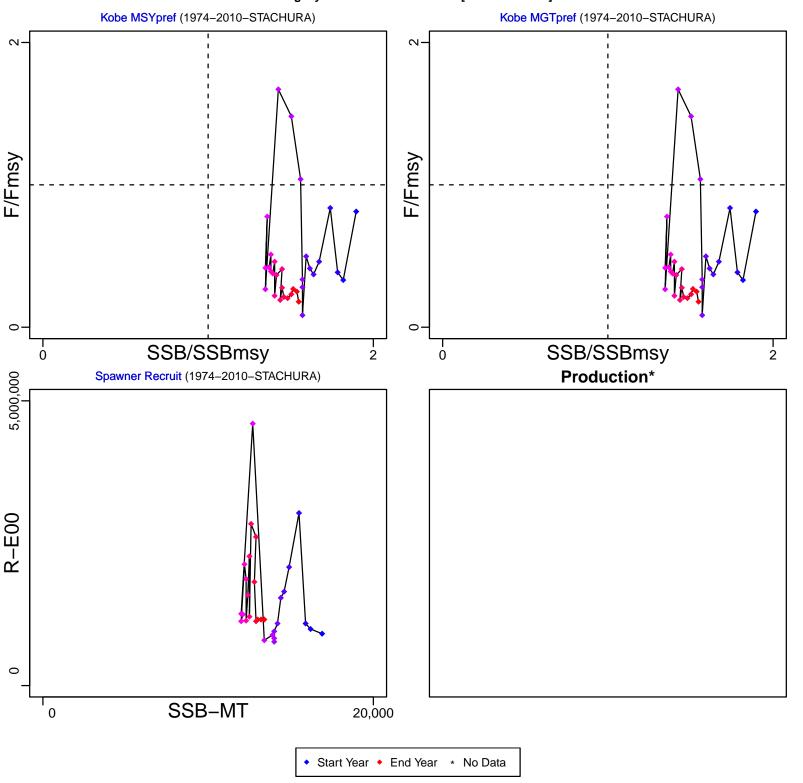


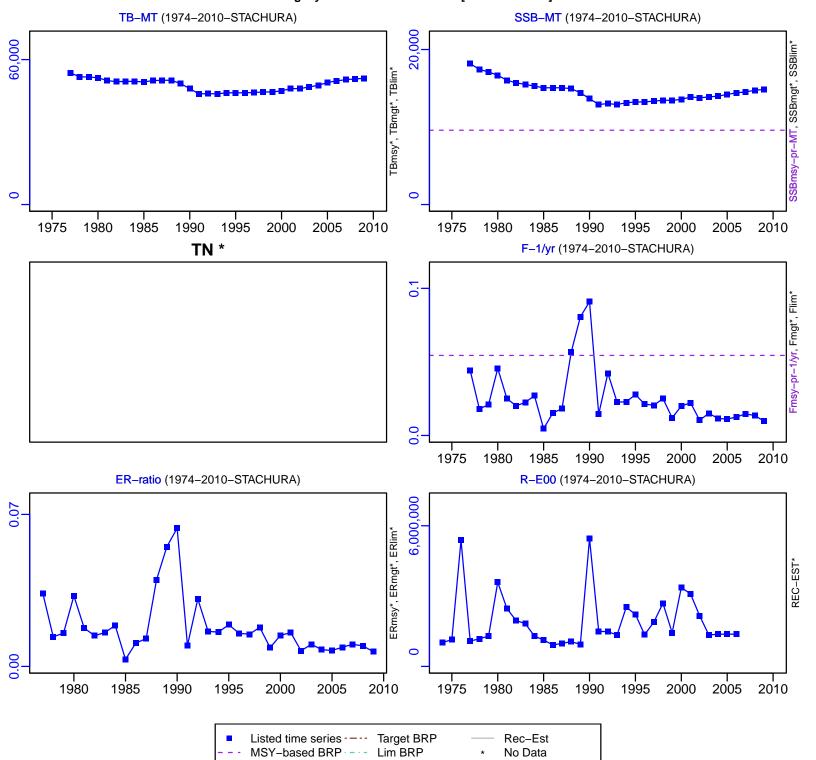


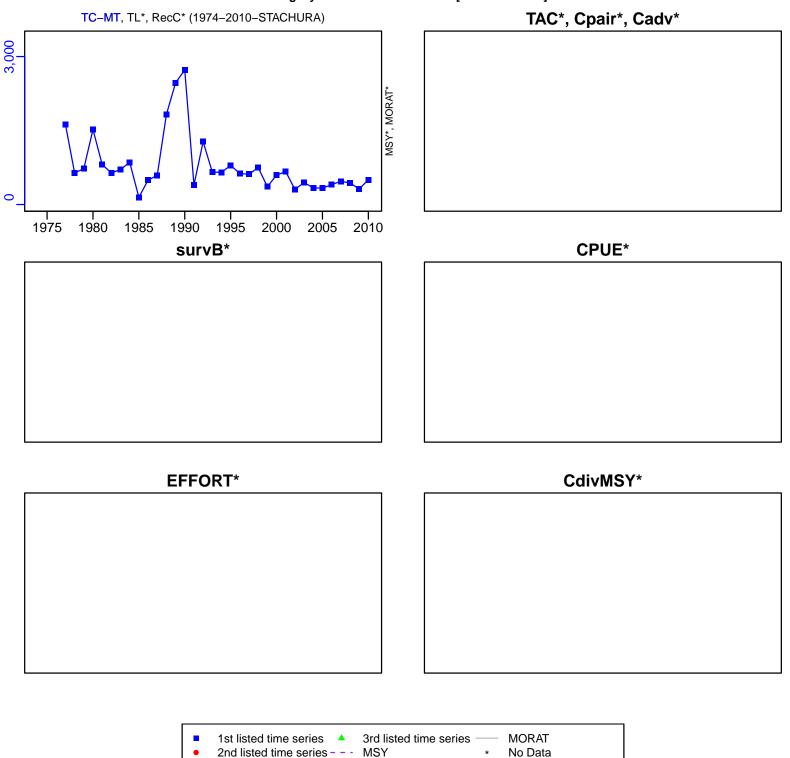
Metadata		
Scientific Name	Sebastes aleutianus	
Current Assess ID	AFSC-REYEROCKGA-1974-2010-STACHURA	
Area Gulf of Alaska		
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2010	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-pr-MT	2010	8912	
Fmsy	Fmsy-pr-1/yr	2010	0.048	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2010	0.034	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	45,400	-	-
SSB	SSB-MT	2010	13,800	Females	19+
TN	-	-	-	-	-
R	R-E00	2010	1,160,000	-	-
F	F-1/yr	2010	0.009	-	-
ER	ER-ratio	2010	0.006	-	-
TC	TC-MT	2010	445		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2010	1.548		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.179		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







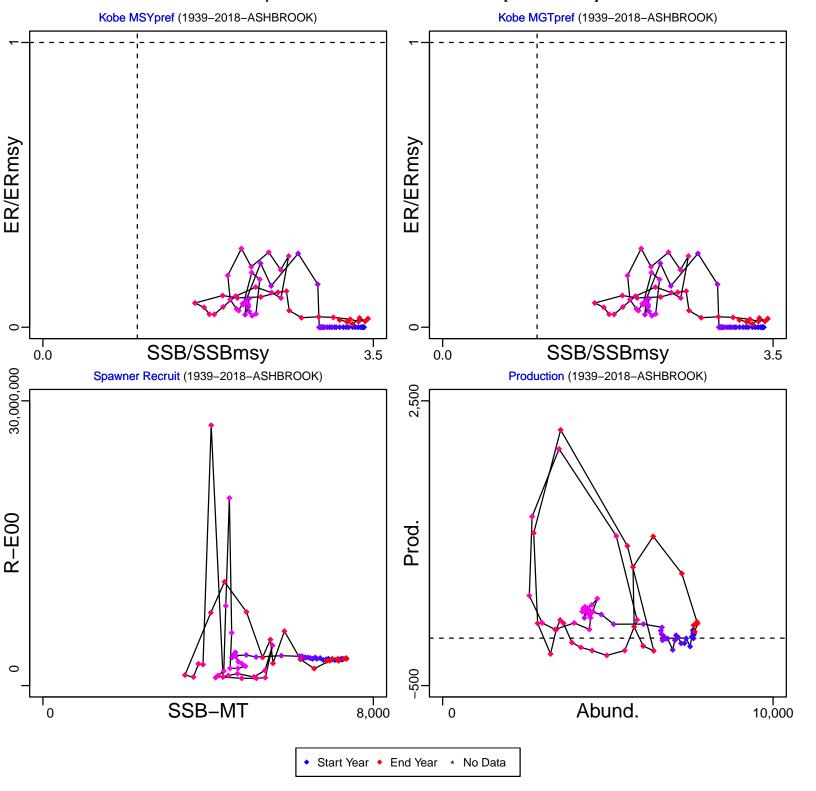
Redstripe rockfish British Columbia Waters North [RSROCKBCWN]

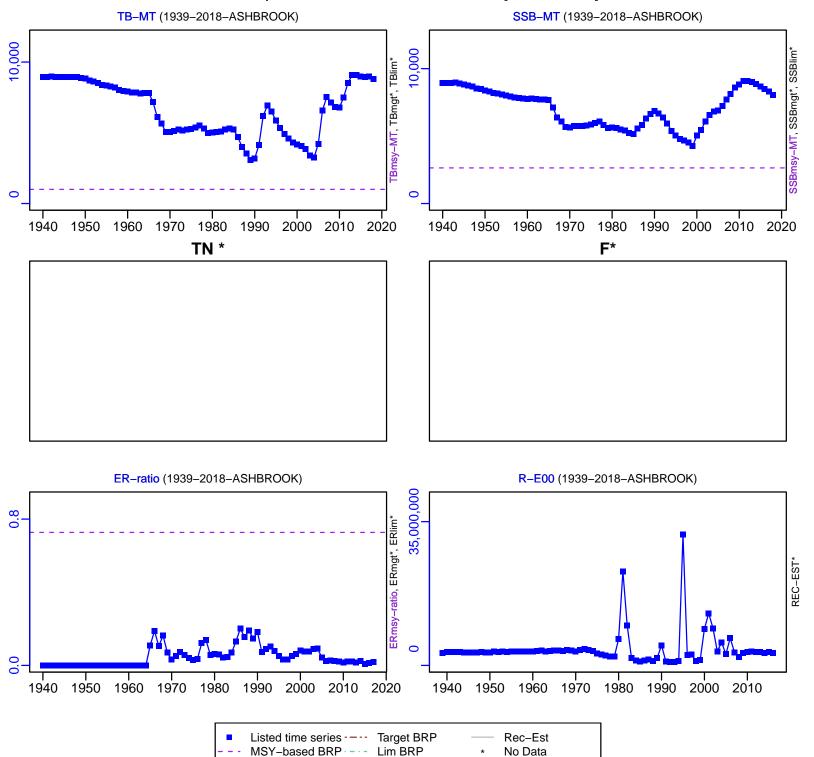
Metadata		
Scientific Name	Sebastes proriger	
Current Assess ID	DFO-PAC-RSROCKBCWN-1939-2018-ASHBROOK	
Area	British Columbia Waters North	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Pacific Region	
Asmts in RAM	2018	

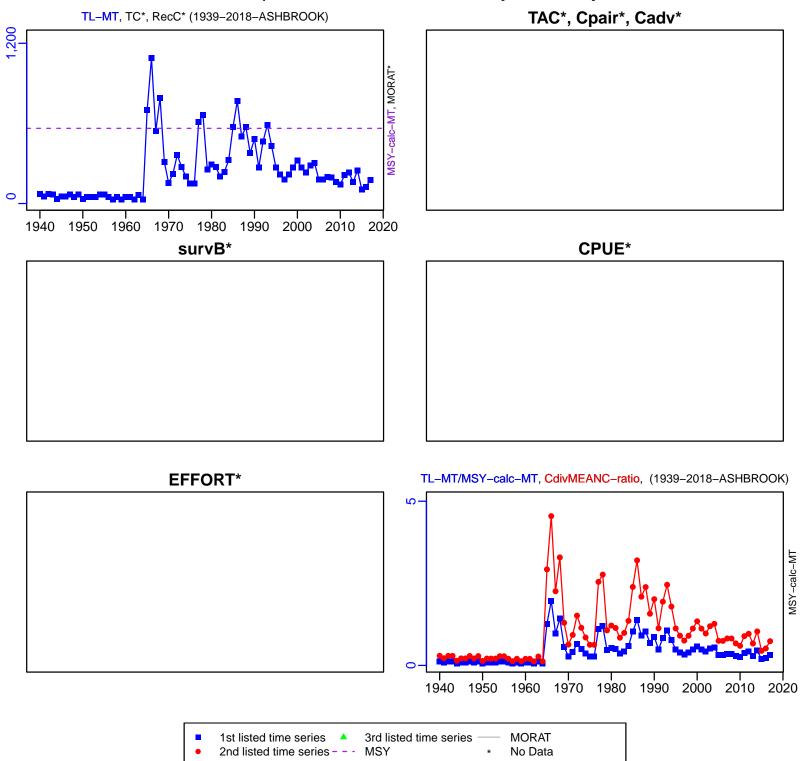
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2018	848	
SSBmsy	SSBmsy-MT	2018	2135	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.638	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2018	7216	
MSY	MSY-calc-MT	2018	541	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	7455	Both	-
SSB	SSB-MT	2018	6500	Females	-
TN	-	-	-	-	-
R	R-E00	2018	2,608,148	-	1
F	-	-	-	-	-
ER	ER-ratio	2018	0.016	-	-
TC	-	-	-		
TL	TL-MT	2018	170		
TB/TBmsy	TB-MT/TBmsy-MT	2018	8.791		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	3.044		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.026		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Redstripe rockfish British Columbia Waters North [RSROCKBCWN]



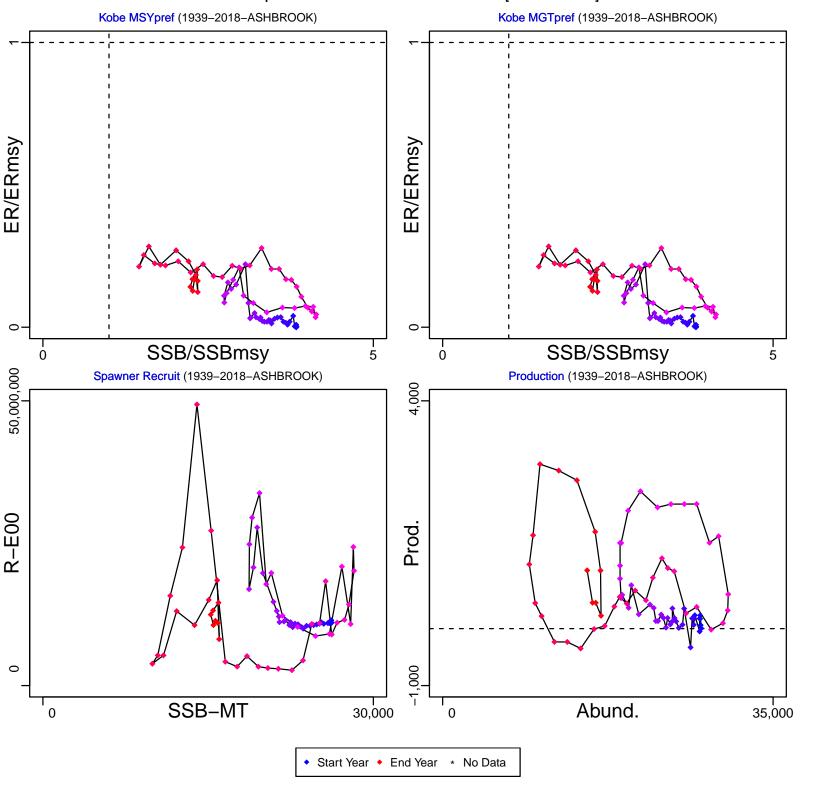


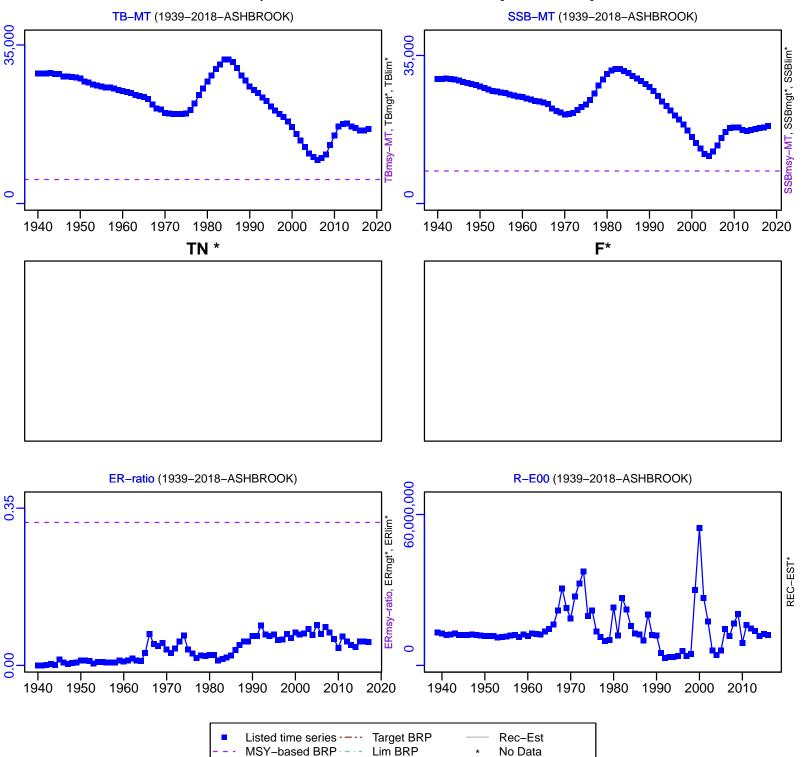


Metadata			
Scientific Name	Sebastes proriger		
Current Assess ID	DFO-PAC-RSROCKBCWS-1939-2018-ASHBROOK		
Area British Columbia Waters South			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Pacific Region		
Asmts in RAM	2018		

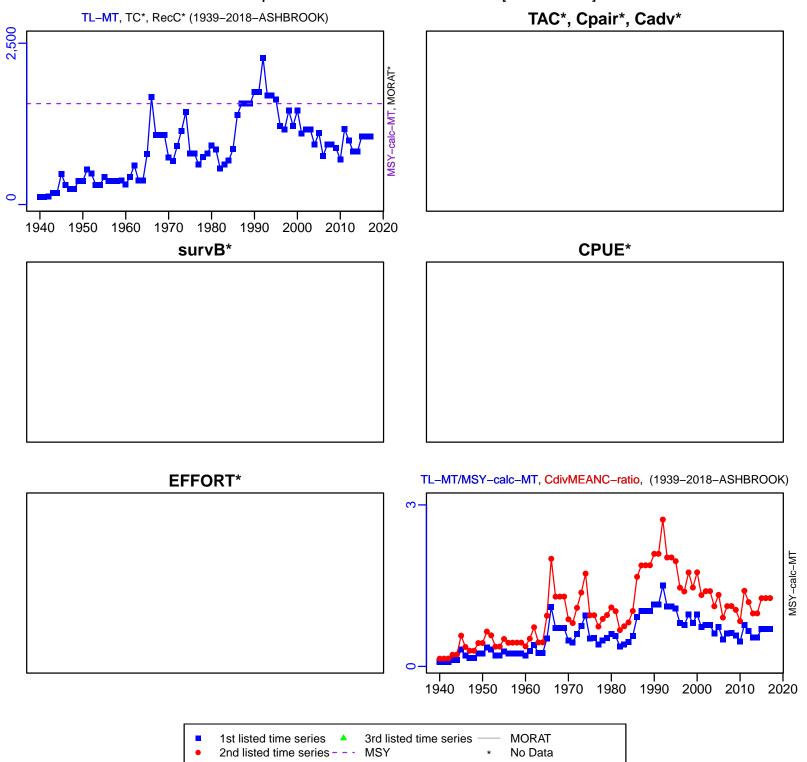
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2018	5043	
SSBmsy	SSBmsy-MT	2018	6830	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2018	0.3	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2018	26,149	
MSY	MSY-calc-MT	2018	1513	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	15,665	Both	-
SSB	SSB-MT	2018	16,235	Females	-
TN	-	-	-	-	-
R	R-E00	2018	10,994,945	-	-
F	-	-	-	-	-
ER	ER-ratio	2018	0.049	-	-
TC	-	-	-		
TL	TL-MT	2018	1023		
TB/TBmsy	TB-MT/TBmsy-MT	2018	3.106		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.377		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.163		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data

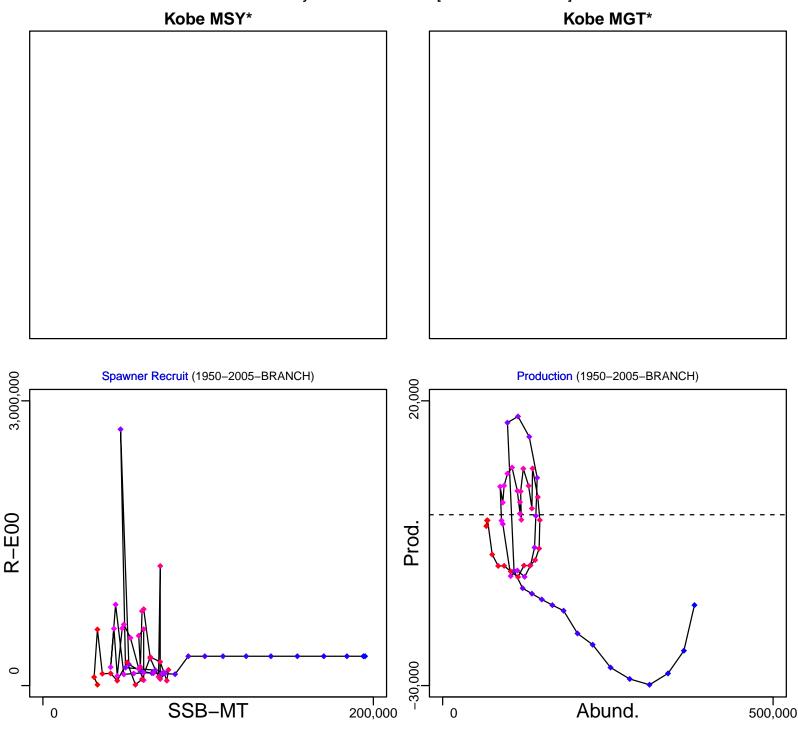


Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

Metadata			
Scientific Name	Sebastes jordani		
Current Assess ID	SWFSC-SBELLYROCKPCOAST-1950-2005-BRANCH		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

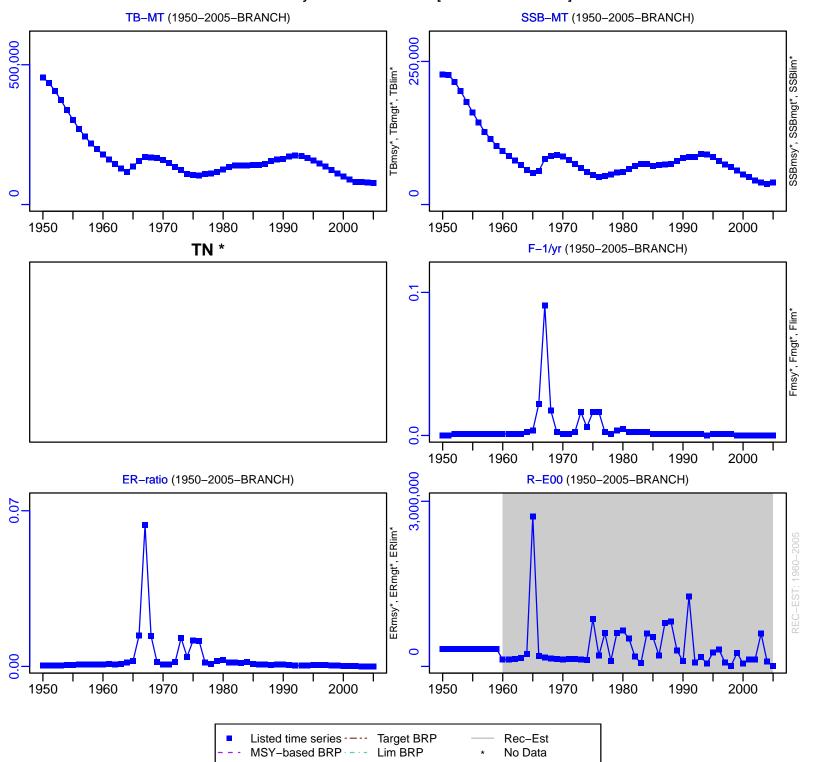
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2005	98,400		
SSB0	SSB0-MT	2005	49,500		
MSY	-	-	-		
M	M-1/yr	2005	0.26		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	64,000	-	1+
SSB	SSB-MT	2005	33,000	Females	2+
TN	-	-	-	-	-
R	R-E00	2005	9000	-	0
F	F-1/yr	2005	0	Both	1+
ER	ER-ratio	2005	0	-	-
TC	TC-MT	2005	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

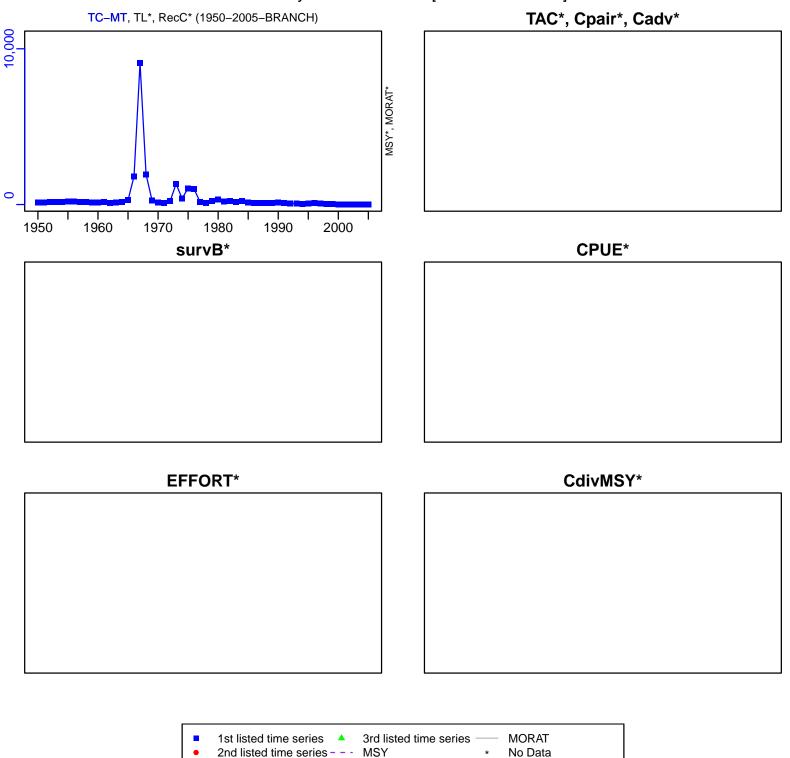


Start Year • End Year • No Data

Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]



Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

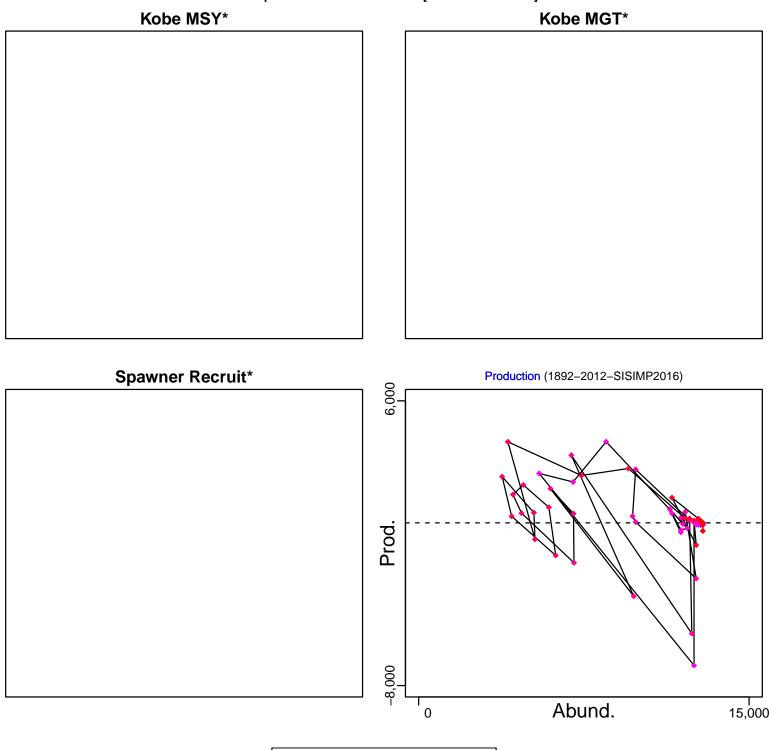


Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]

Metadata			
Scientific Name	Sebastes zacentrus		
Current Assess ID NWFSC-SHCROCKPCOAST-1892-2012-SISIMP2016			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national managen			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2012		

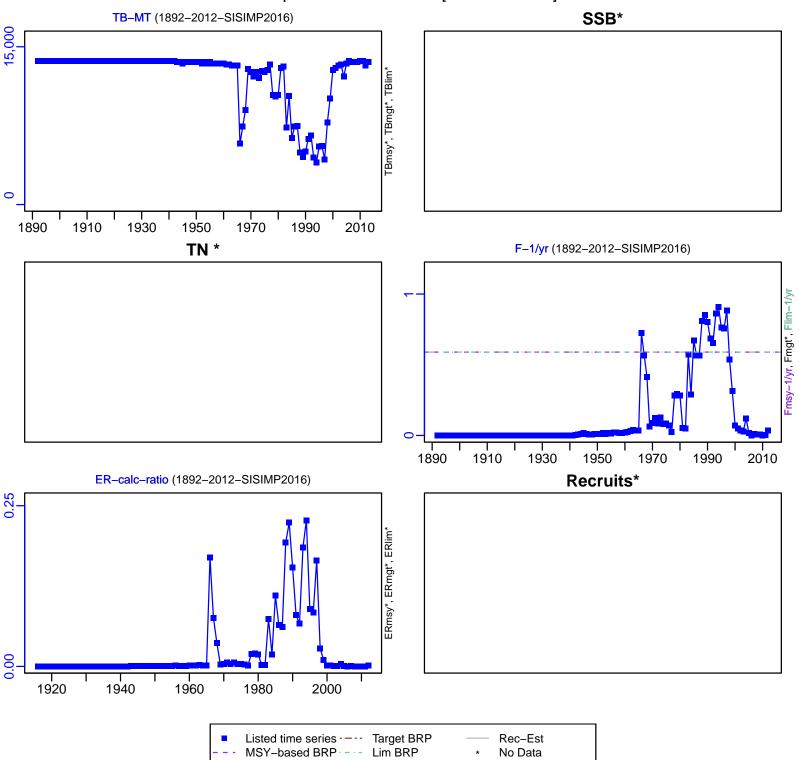
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2012	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-		
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	270	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2012	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	12,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2012	0.03	-	-
ER	ER-calc-ratio	2012	0.001	-	-
TC	TC-MT	2012	14		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.06		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

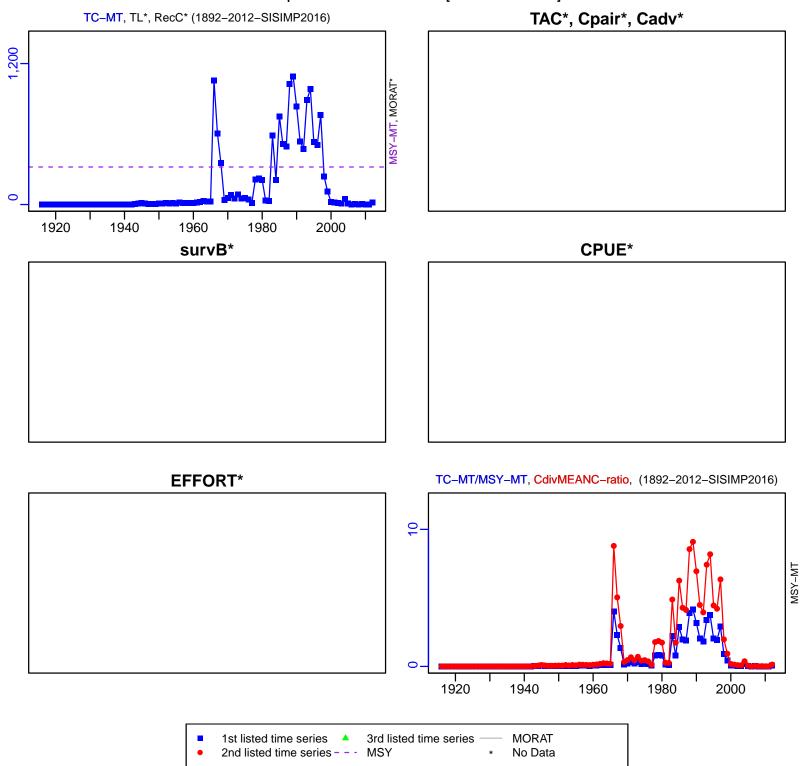


Start Year • End Year * No Data

Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]



Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]



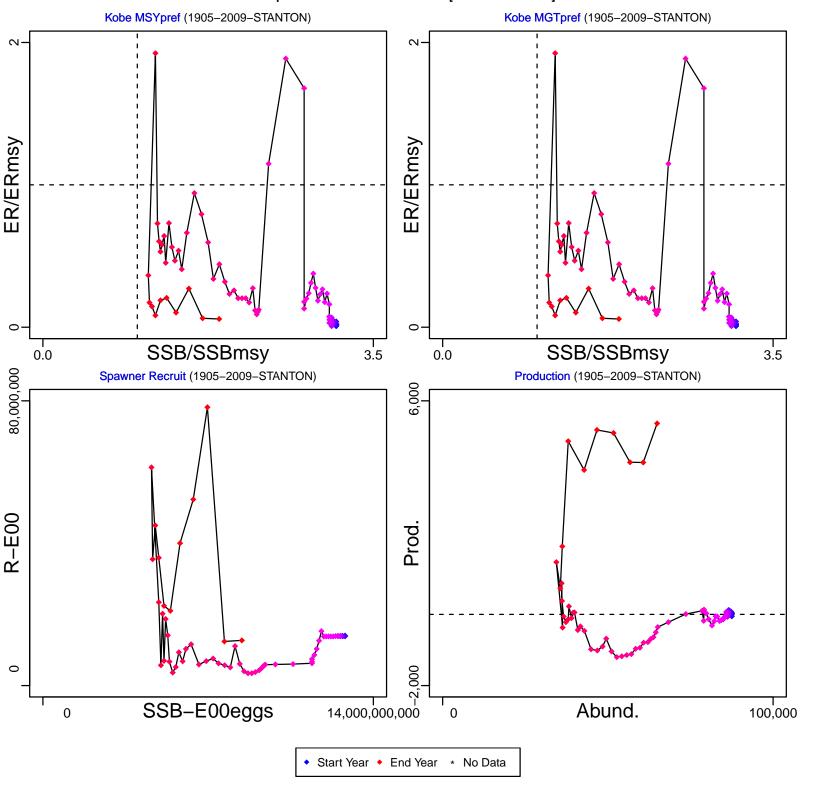
Splitnose rockfish Pacific Coast [SNROCKPCOAST]

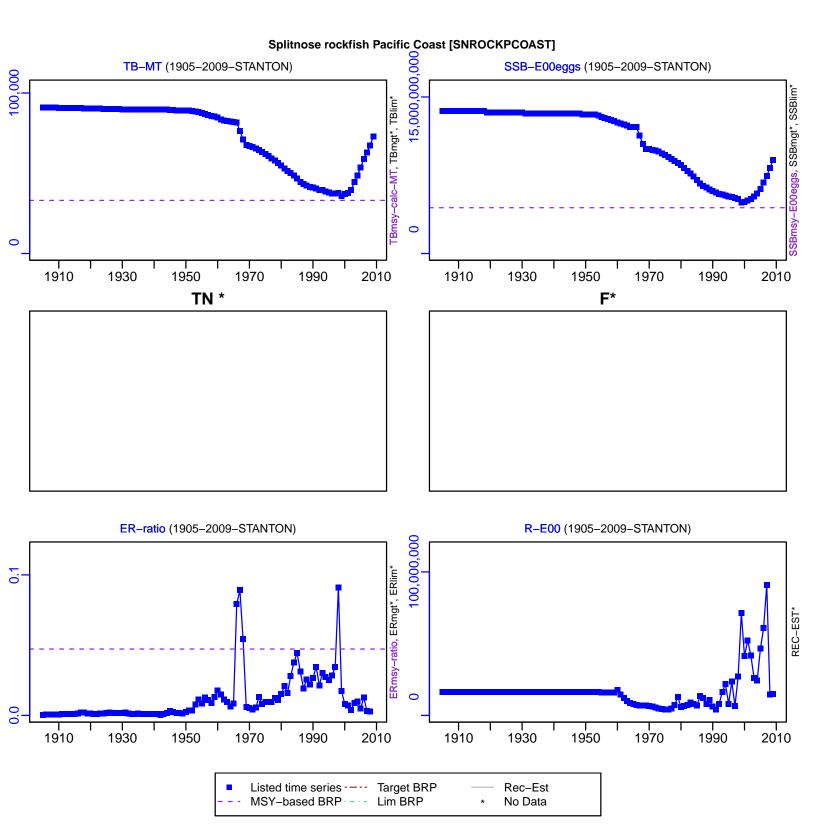
Metadata			
Scientific Name	Sebastes diploproa		
Current Assess ID NWFSC-SNROCKPCOAST-1905-2009-STANTON			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2009		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2009	31,859		
SSBmsy	SSBmsy-E00eggs	2009	4.12×10^{9}		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2009	0.04		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2009	87,584		
SSB0	-	-	-		
MSY	MSY-MT	2009	1268		
M	M-1/yr	2009	0.048		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

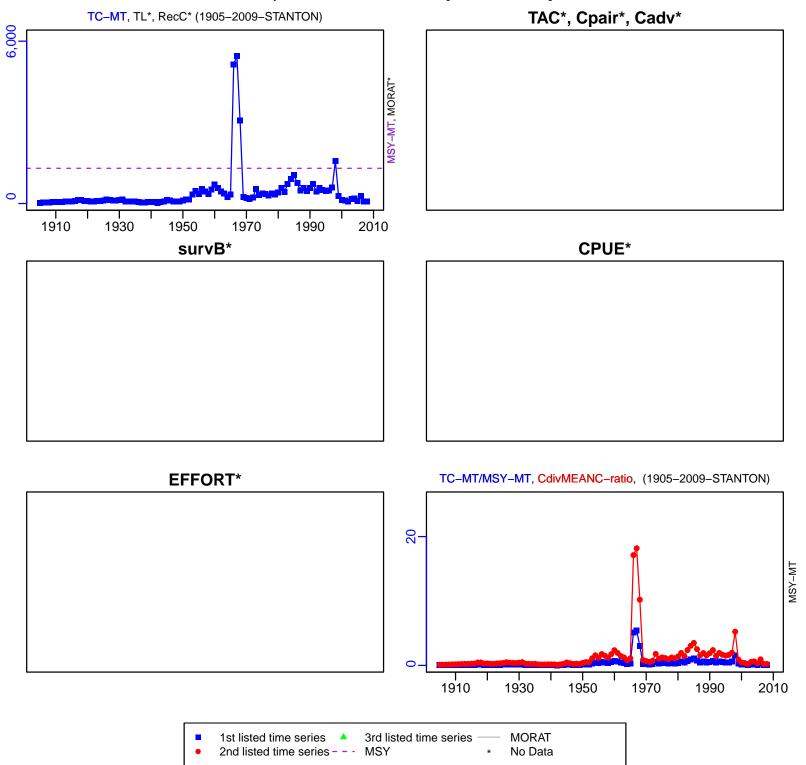
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	70,200	-	4+
SSB	SSB-E00eggs	2009	8.43×10^{9}	Females	-
TN	-	-	-	-	-
R	R-E00	2009	12,700,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0.002	-	-
TC	TC-MT	2009	66		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.203		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2009	2.046		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.058		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Splitnose rockfish Pacific Coast [SNROCKPCOAST]





Splitnose rockfish Pacific Coast [SNROCKPCOAST]

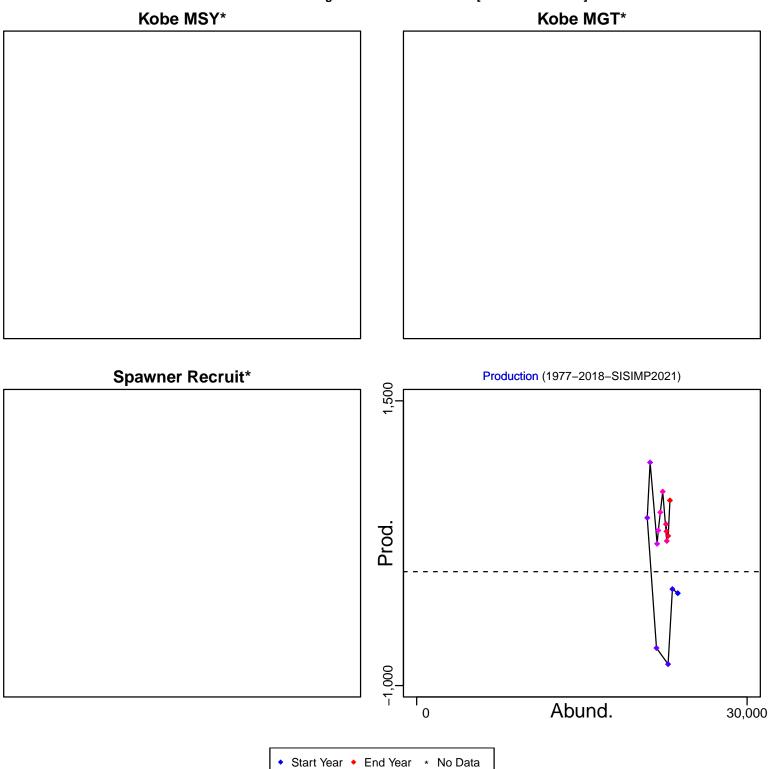


Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

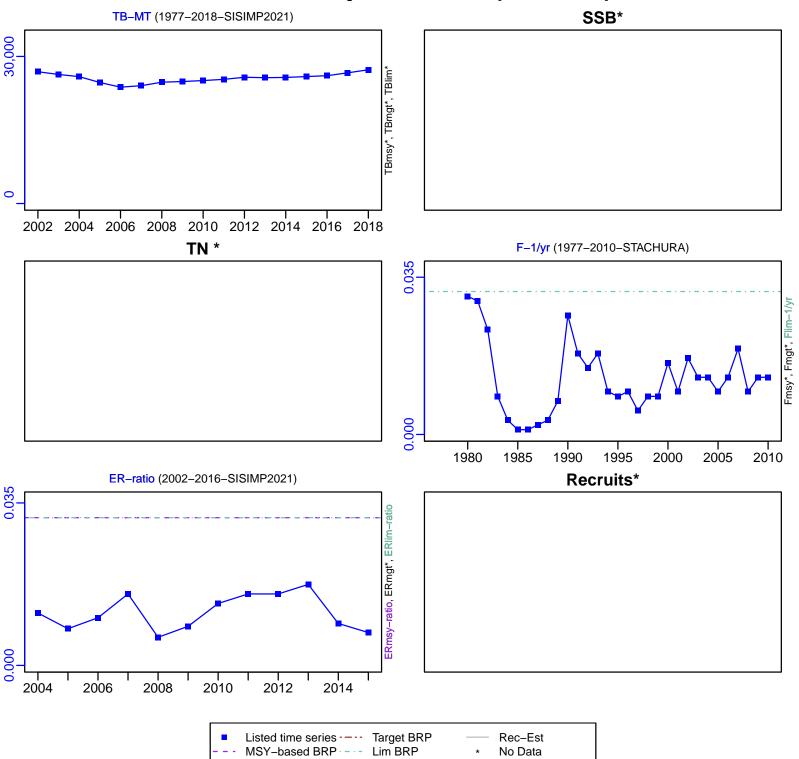
Metadata			
Scientific Name	Sebastes borealis		
Current Assess ID AFSC-SRAKEROCKBSAI-1977-2020-SISIMP2021-2			
Area Bering Sea and Aleutian Islands			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2010, 2018, 2020, 2016, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2016	0.031	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2010	0.03	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2010	0.03	
ERlim	ERlim-ratio	2016	0.031	

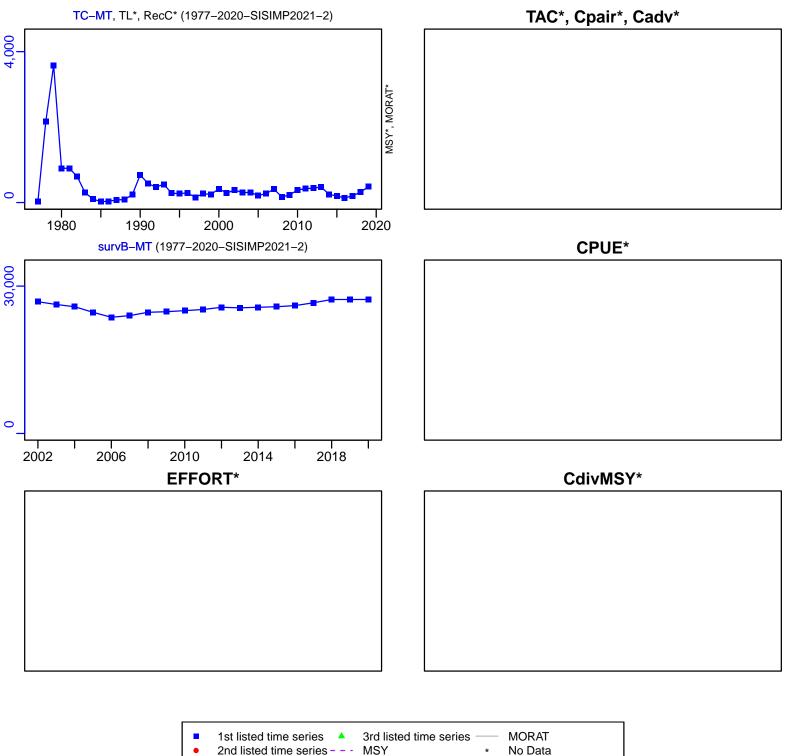
Time Series					
Туре	ID	Sex	Age		
ТВ	TB-MT	2018	24,055	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.012	Both	-
ER	ER-calc-ratio	2018	0.007	-	-
TC	TC-MT	2020	380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.223		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]



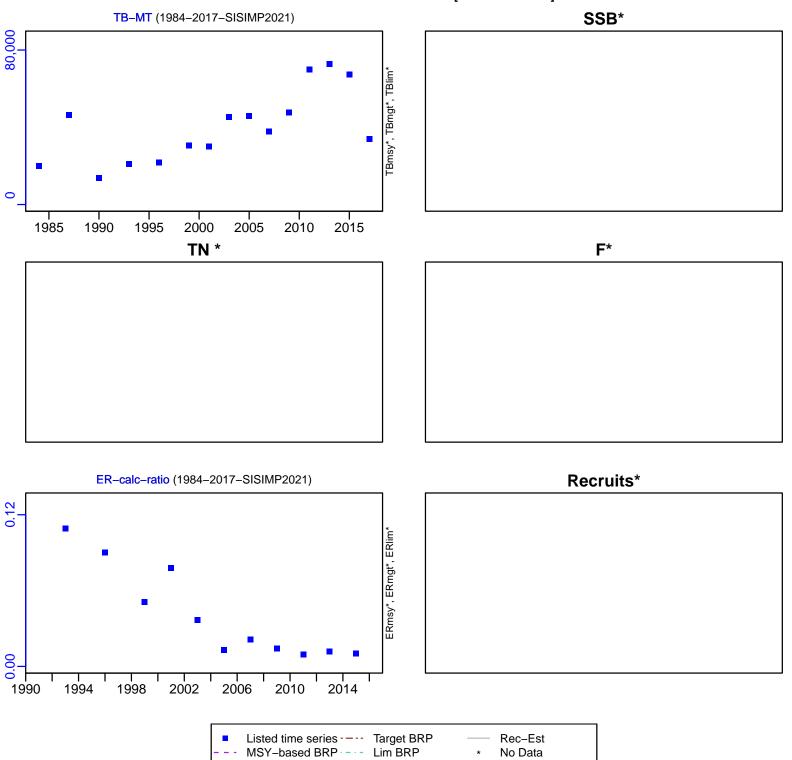
Metadata			
Scientific Name	Sebastes borealis		
Current Assess ID AFSC-SRAKEROCKGA-1991-2018-SISIMP2021-2			
Area Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2016, 2017, 2018, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2016	0.031	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2016	0.031	

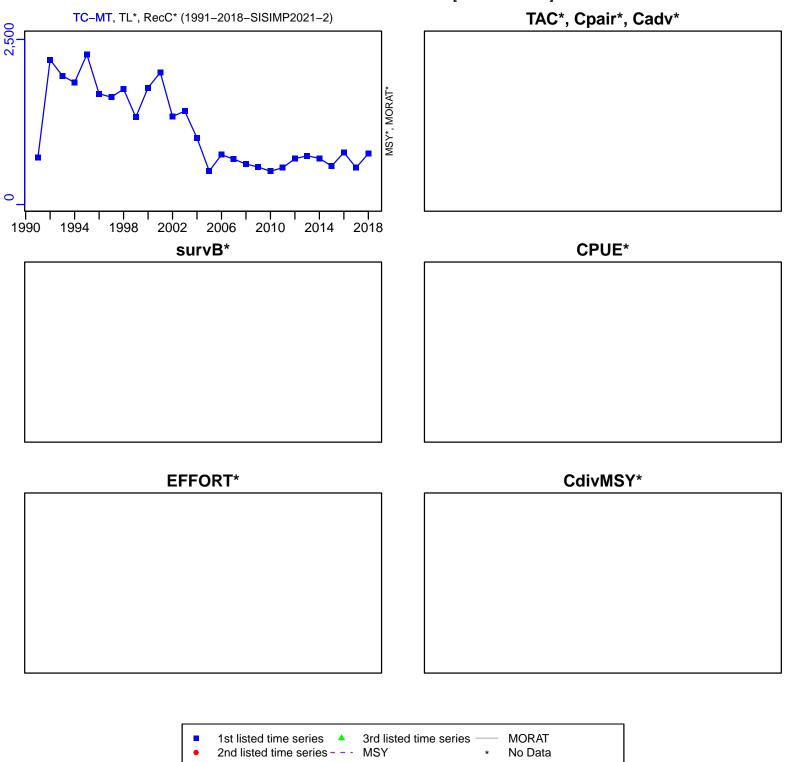
Time Series					
Туре	ID	ID Asmt Year Curr Value			
ТВ	TB-MT	2017	31,534	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2017	0.009	-	-
TC	TC-MT	2018	763		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.323		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



No Data

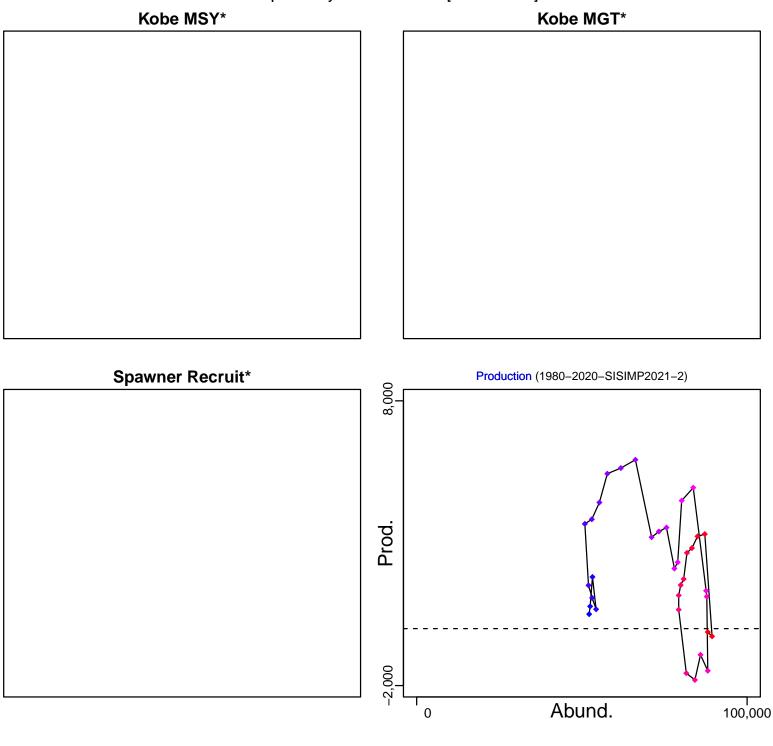


Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

Metadata			
Scientific Name	Sebastolobus alascanus		
Current Assess ID AFSC-SSTHORNHGA-1980-2020-SISIMP2021-2			
Area Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2014, 2016, 2017, 2020		

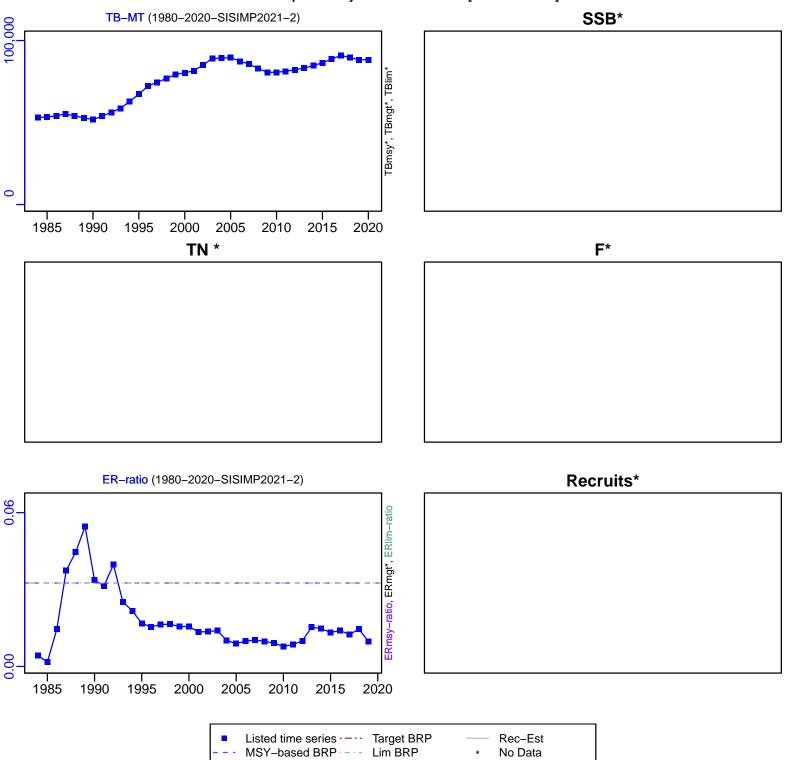
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2020	0.03	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2020	0.03	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	86,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.009	-	-
TC	TC-MT	2020	777		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.298		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



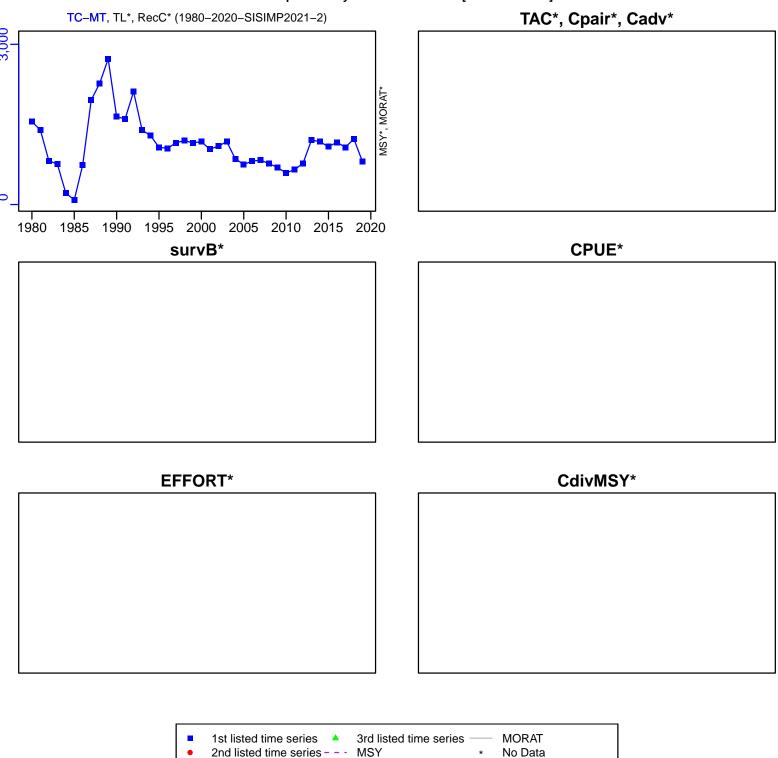
Start Year • End Year * No Data

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]



No Data

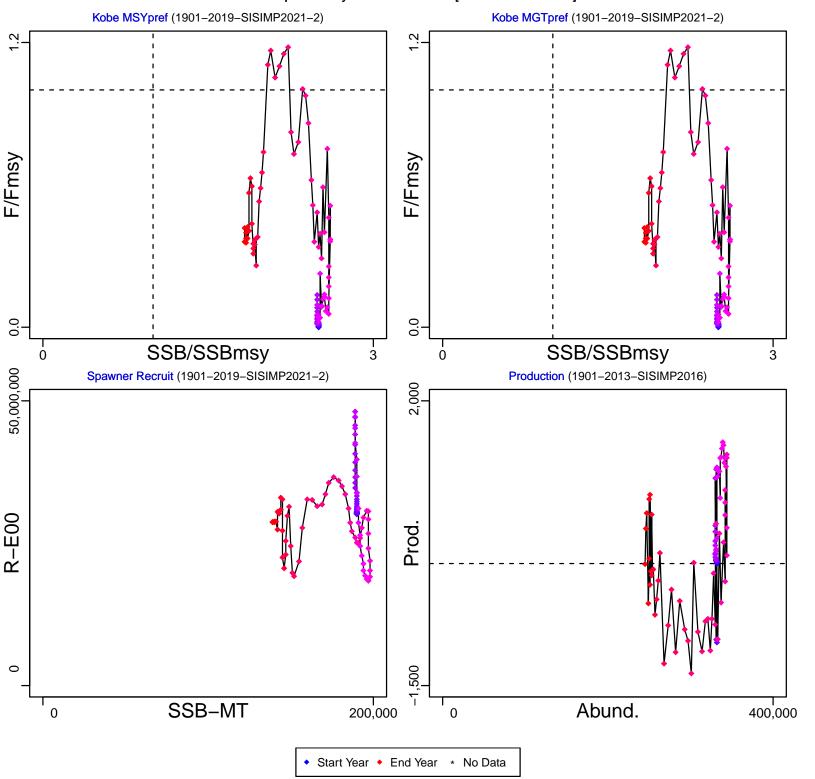
Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

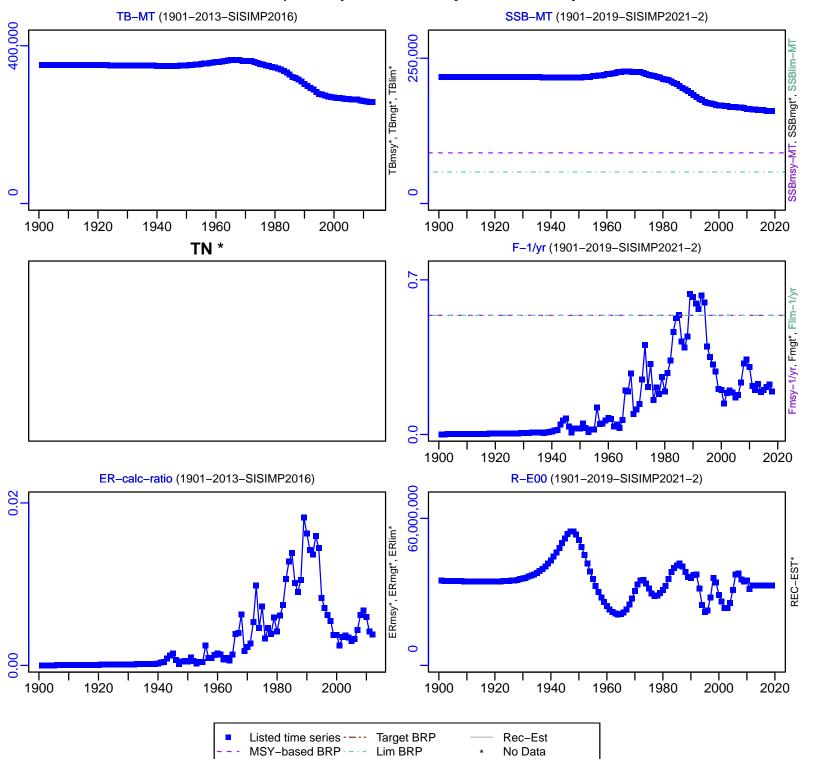


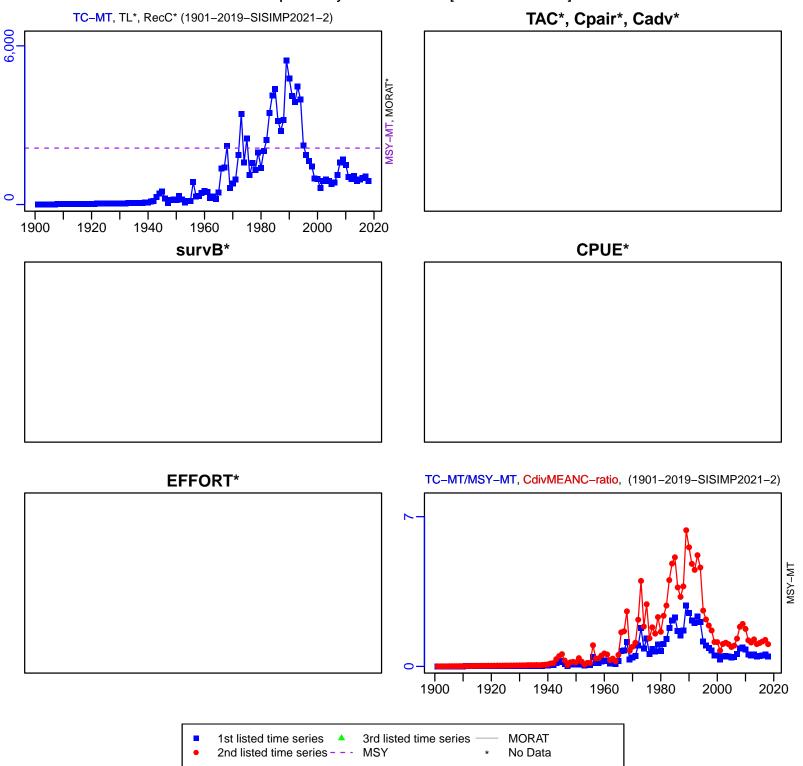
Metadata			
Scientific Name	Sebastolobus alascanus		
Current Assess ID NWFSC-SSTHORNHPCOAST-1901-2019-SISIMP2021-2			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2005, 2013, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2005	86,000	
SSBmsy	SSBmsy-MT	2019	75,900	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	ERmsy-ratio	2005	0.018	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	230,500	
SSB0	SSB0-MT	2005	130,646	
MSY	MSY-MT	2019	2030	
М	M-1/yr	2005	0.05	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	47,400	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2013	244,000	-	1+		
SSB	SSB-MT	2019	139,000	-	-		
TN	-	-	-	-	-		
R	R-E00	2019	28,700,000	-	0		
F	F-1/yr	2019	0.18	-	-		
ER	ER-calc-ratio	2013	0.004	-	-		
TC	TC-MT	2019	847				
TL	TL-MT	2005	867				
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.686				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.831				
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.36				
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.265				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				







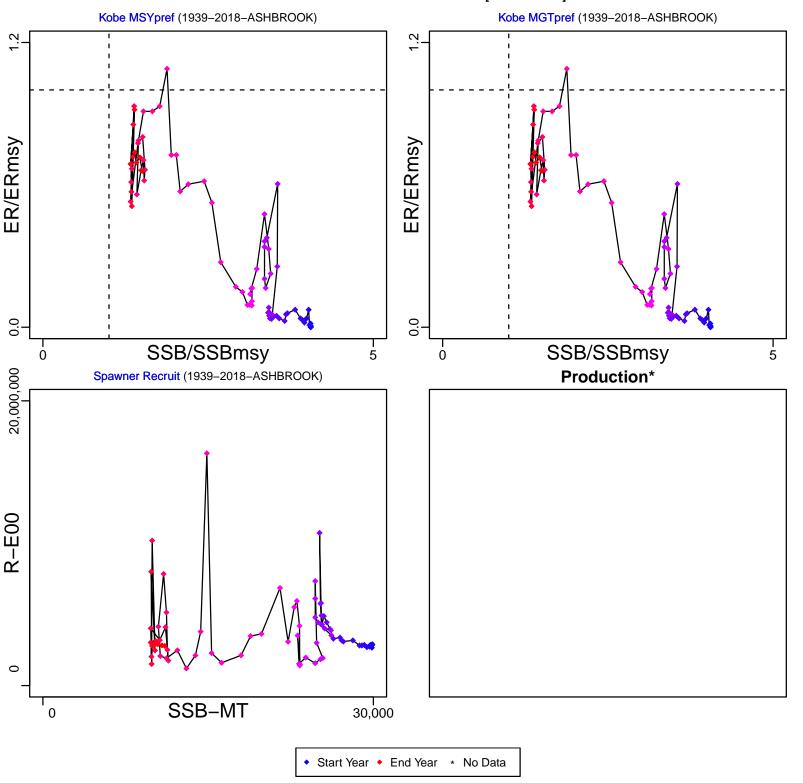
Widow rockfish British Columbia Waters [WROCKBCW]

Metadata			
Scientific Name	Sebastes entomelas		
Current Assess ID	DFO-PAC-WROCKBCW-1939-2018-ASHBROOK		
Area	British Columbia Waters		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Pacific Region		
Asmts in RAM	2018		

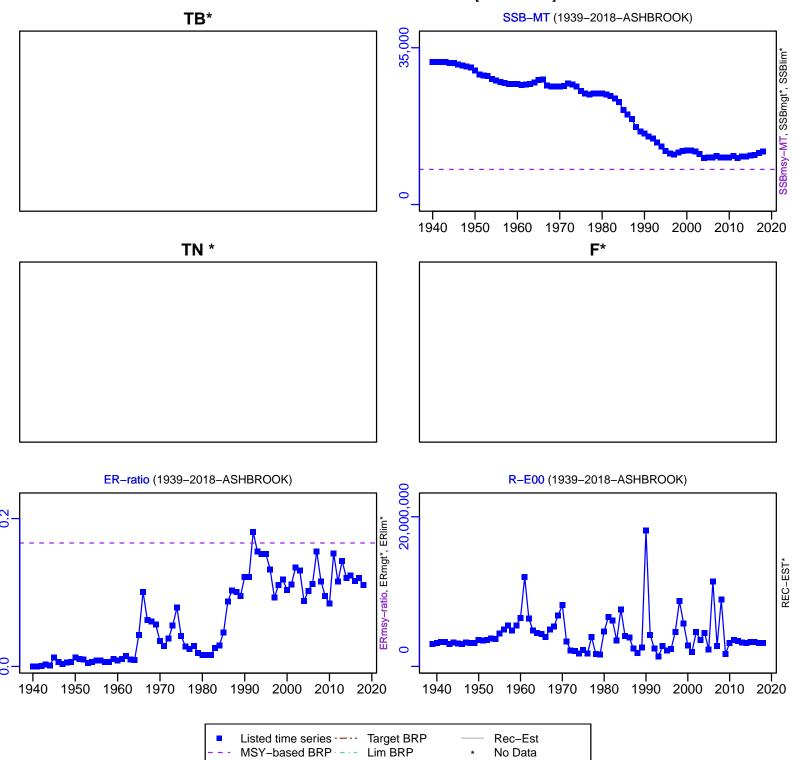
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2018	12,899		
SSBmsy	SSBmsy-MT	2018	7373		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2018	0.148		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2018	29,951		
MSY	MSY-MT	2018	1909		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	SSB-MT	2018	11,077	Females	-	
TN	-	-	-	-	-	
R	R-E00	2018	2,782,219	-	1	
F	-	-	-	-	-	
ER	ER-ratio	2018	0.098	-	-	
TC	-	-	-			
TL	TL-MT	2018	1909			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.502			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.659			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

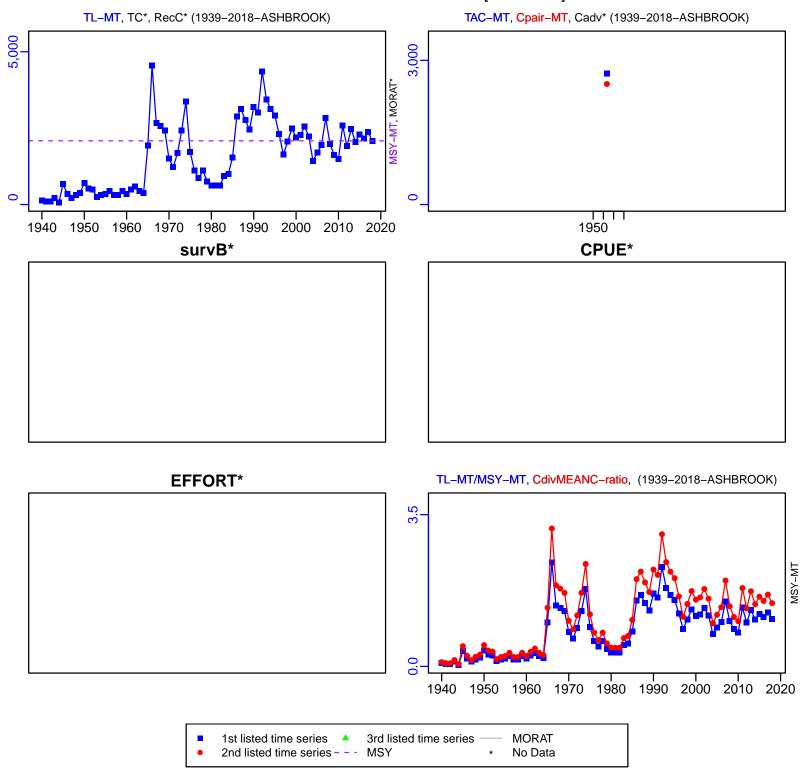
Widow rockfish British Columbia Waters [WROCKBCW]



Widow rockfish British Columbia Waters [WROCKBCW]



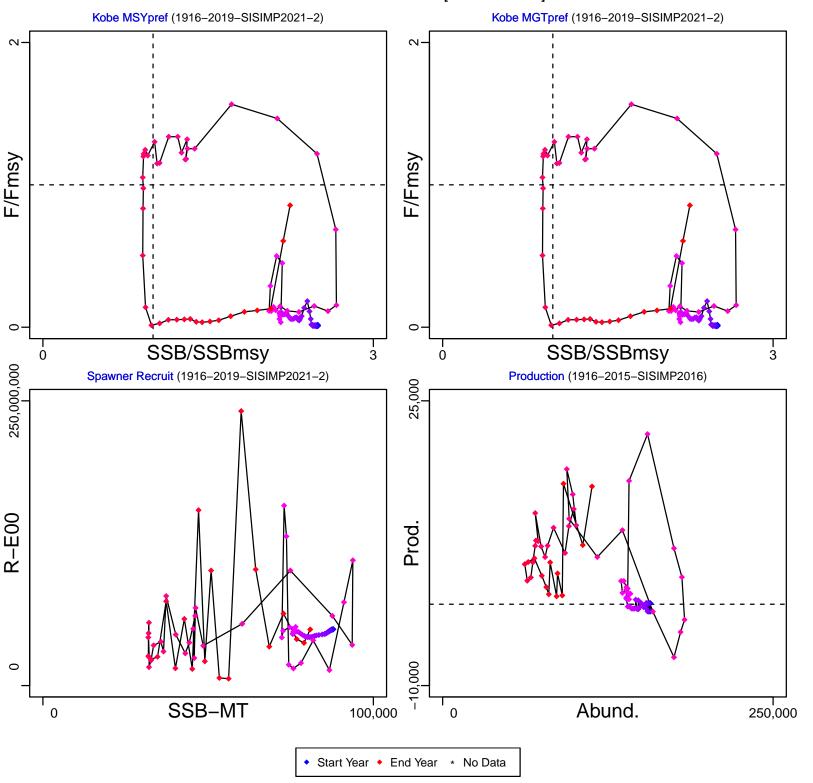
Widow rockfish British Columbia Waters [WROCKBCW]

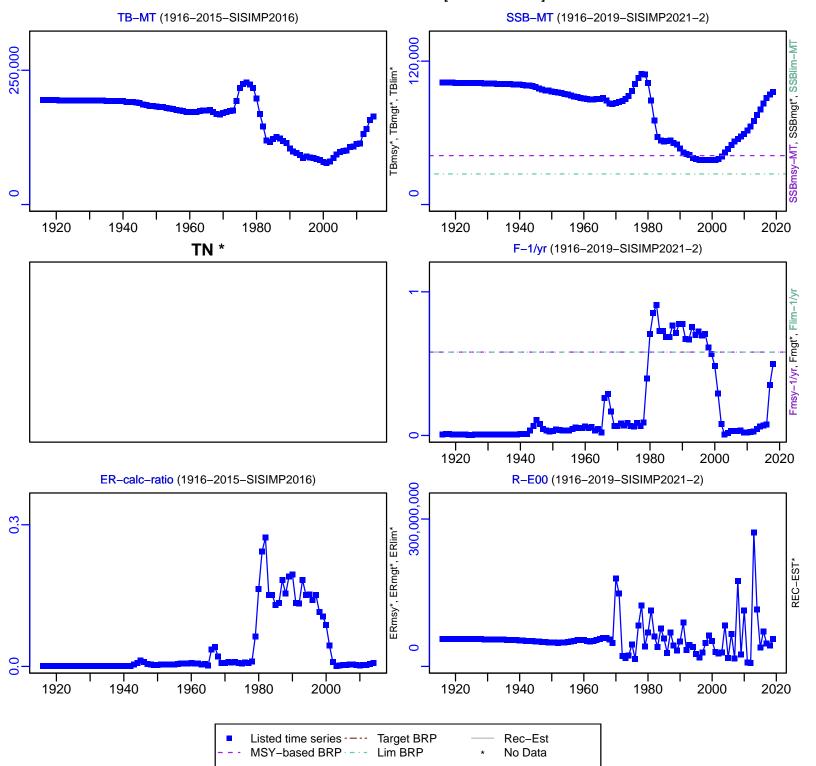


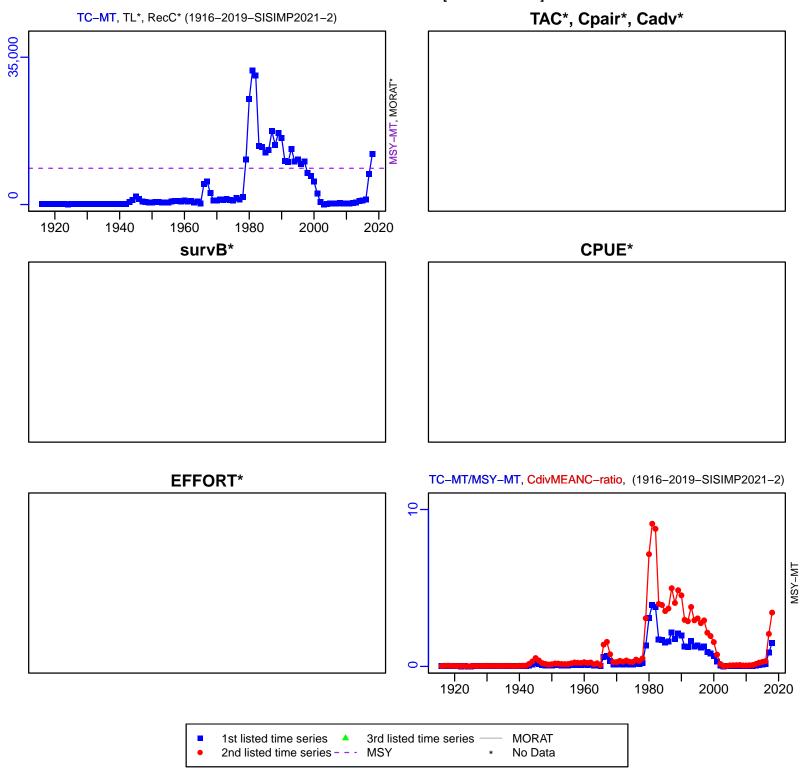
Metadata			
Scientific Name	Sebastes entomelas		
Current Assess ID NWFSC-WROCKPCOAST-1916-2019-SISIMP2021-2			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national managem			
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011, 2015, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	45,750	
SSBmsy	SSBmsy-MT	2019	35,200	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	ERmsy-ratio	2011	0.12	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2011	28,451	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2011	71,126	
MSY	MSY-MT	2019	7610	
М	M-1/yr	2011	0.12	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	22,000	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	132,000	Both	4+
SSB	SSB-MT	2019	80,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	49,300,000	-	0
F	F-1/yr	2019	0.428	-	-
ER	ER-calc-ratio	2015	0.006	-	-
TC	TC-MT	2019	10,600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.491		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.298		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.856		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.019		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	1.276		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





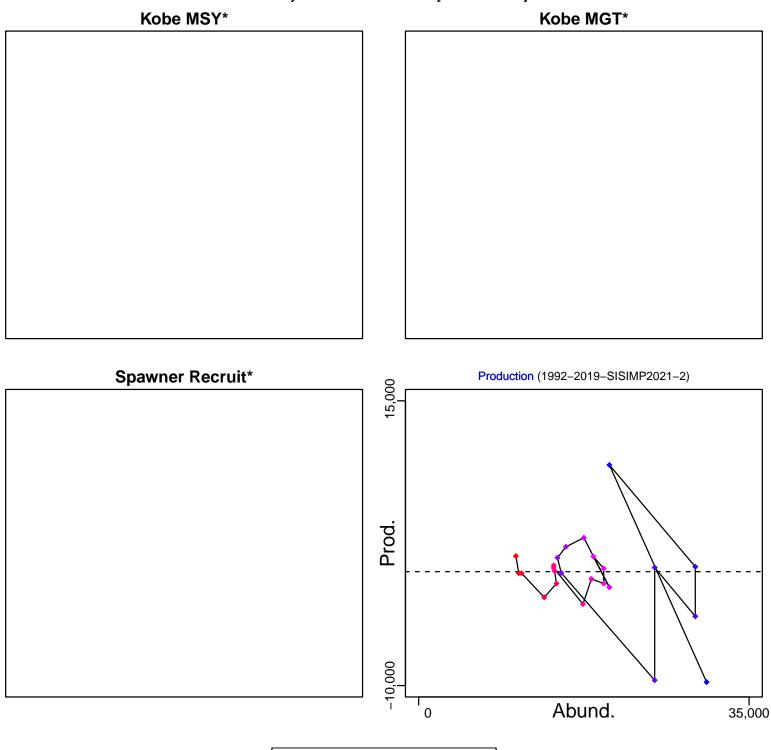


Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

Metadata			
Scientific Name	Sebastes ruberrimus		
Current Assess ID AFSC-YEYEROCKGA-1992-2020-SISIMP2021-2			
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2014, 2016, 2016, 2017, 2019, 2020		

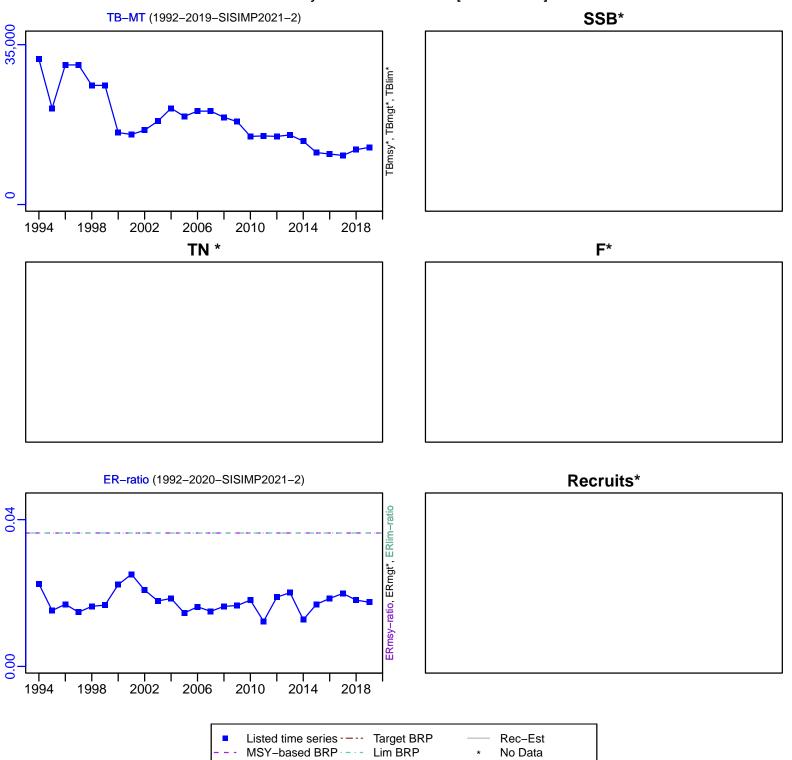
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2020	0.032		
TBmgt	-	-	-		
SSBmgt	-	-			
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	ERlim-ratio	2020	0.032		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	12,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.015	-	-
TC	TC-MT	2020	185		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.481		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



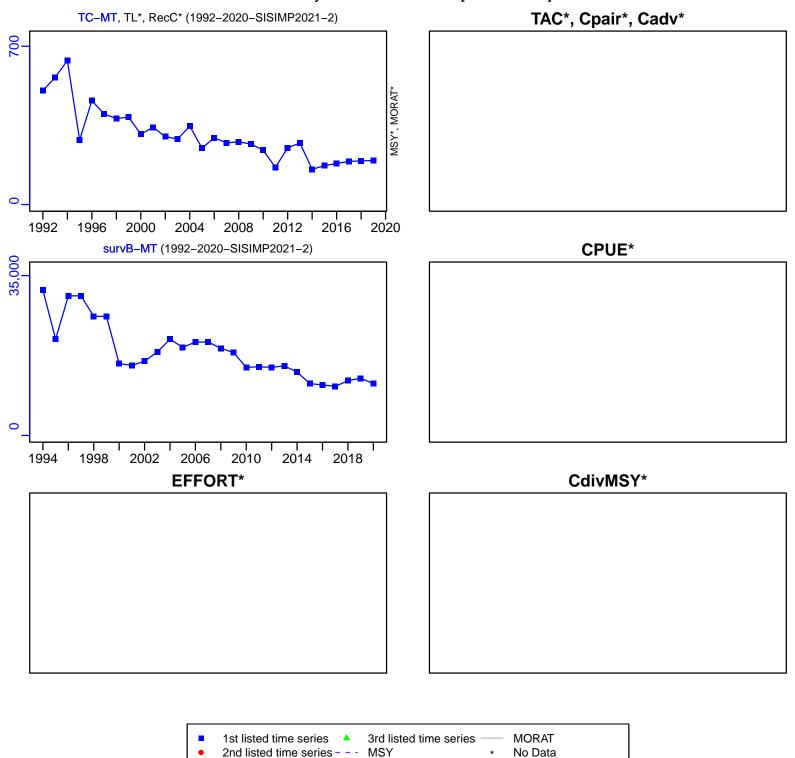
Start Year • End Year * No Data

Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]



No Data

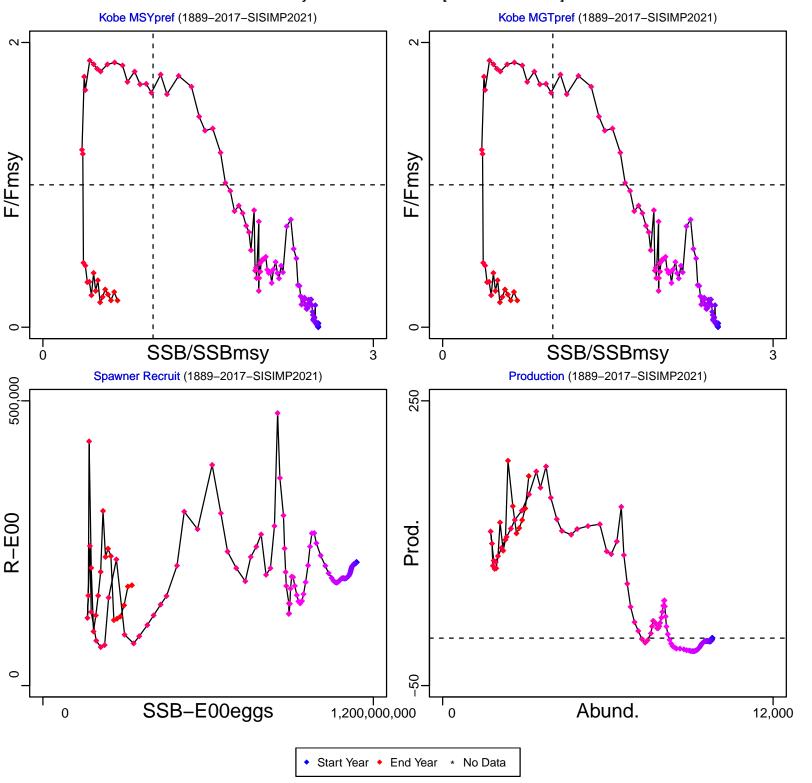
Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

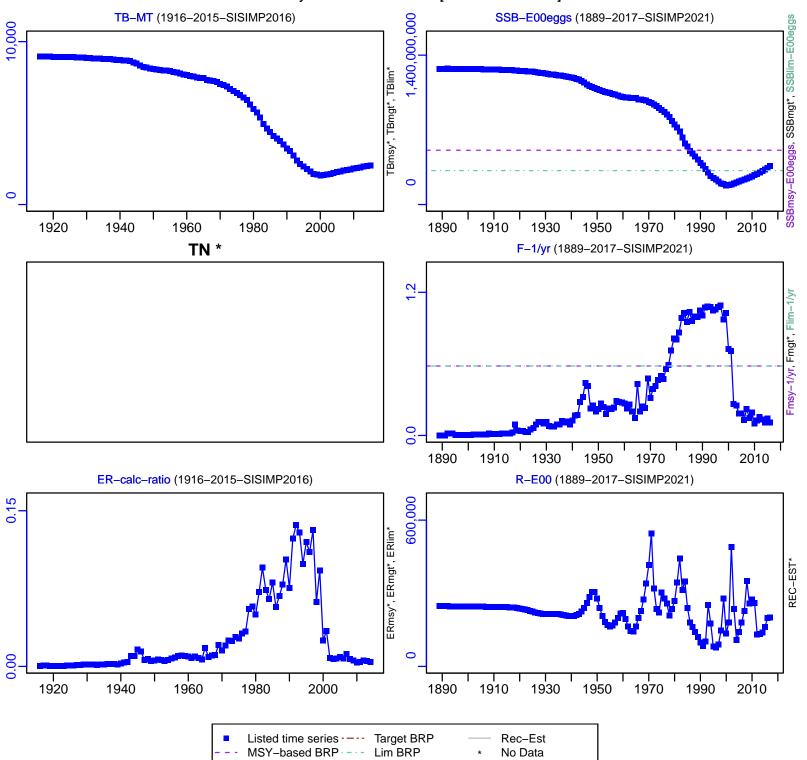


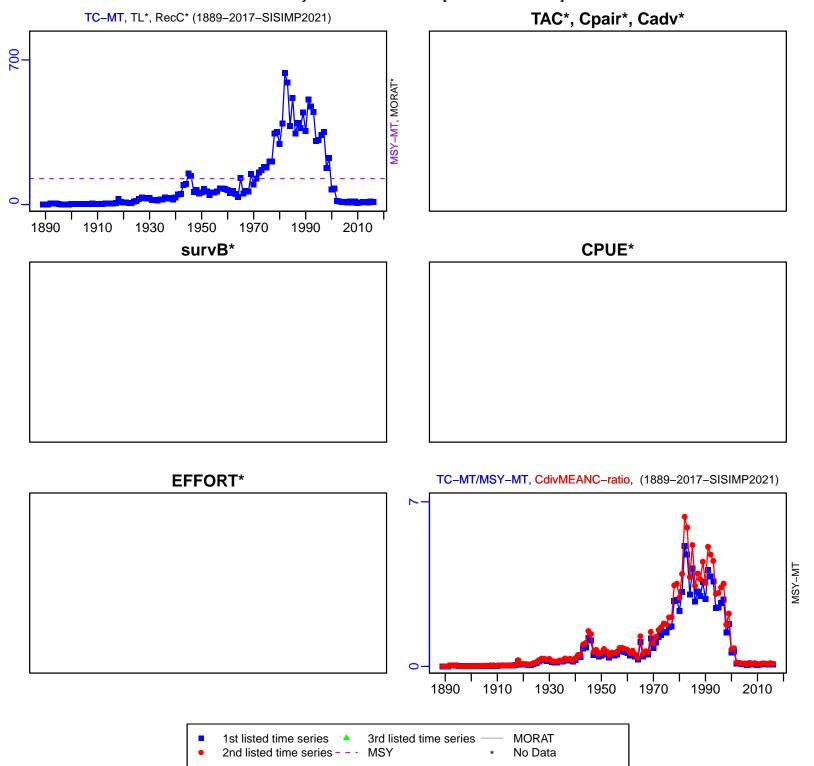
Metadata			
Scientific Name	Sebastes ruberrimus		
Current Assess ID NWFSC-YEYEROCKPCOAST-1889-2017-SISIMP2021			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2017, 2011, 2015		

Reference Points					
Туре	pe ID Asmt '		Value		
TBmsy	TBmsy-calc-MT	2011	3706		
SSBmsy	SSBmsy-E00eggs	2017	455,619,995		
Fmsy	Fmsy-1/yr	2017	0.5		
ERmsy	ERmsy-ratio	2011	0.017		
TBmgt	-		-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2011	8882		
SSB0	SSB0-E00eggs	2011	1.03×10^{9}		
MSY	MSY-MT	2017	109		
М	M-1/yr	2011	0.046		
TBlim	-	-	-		
SSBlim	SSBlim-E00eggs	2017	284,760,010		
Flim	Flim-1/yr	2017	0.5		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2017	3432	-	-	
SSB	SSB-E00eggs	2017	323,130,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2017	176,200	-	0	
F	F-1/yr	2017	0.094	-	-	
ER	ER-calc-ratio	2017	0.003	-	-	
TC	TC-MT	2017	10			
TL	-	-	-]		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.591]		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2017	0.709			
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.188			
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.312			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			







Metadata				
Scientific Name	Sebastes ruberrimus			
Current Assess ID DFO-YEYEROCKPCOASTIN-1918-2009-WATSON				
Area Pacific Coast of Canada (Inside)				
Management Authority Department of Fisheries and Oceans, Canada national management				
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2009			

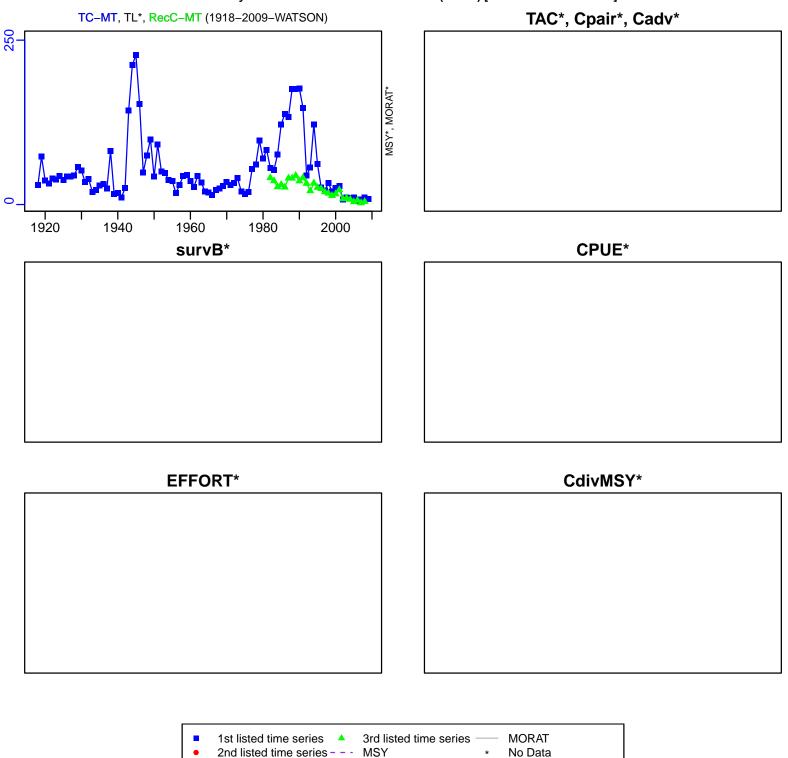
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	8		
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



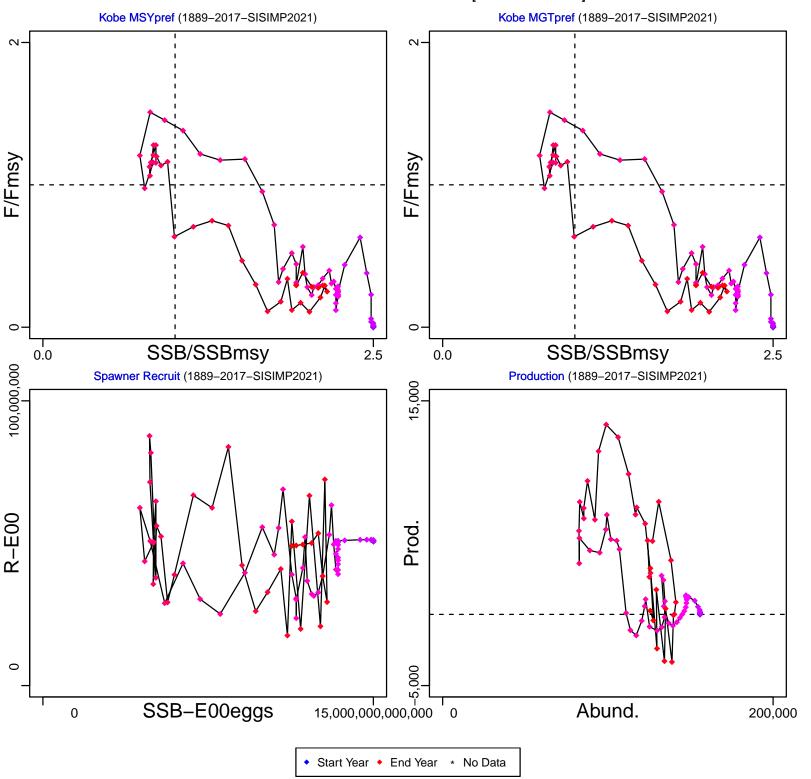
Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

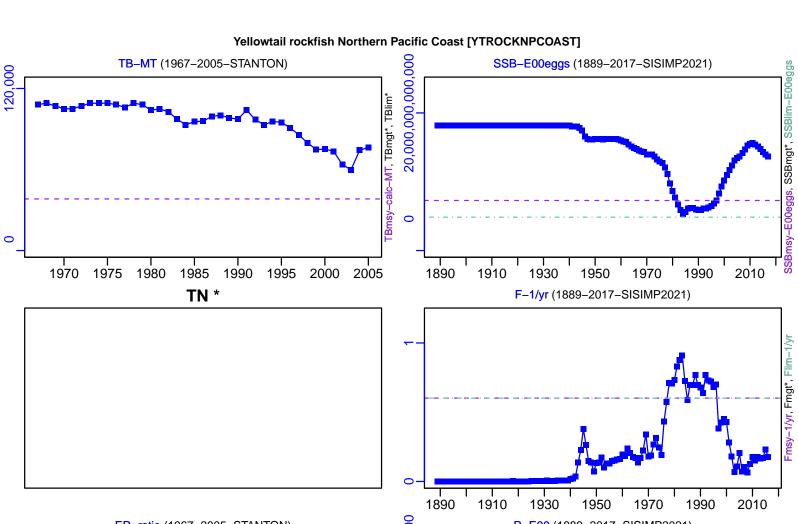
Metadata					
Scientific Name	Sebastes flavidus				
Current Assess ID	NWFSC-YTROCKNPCOAST-1889-2017-SISIMP2021				
Area	Northern Pacific Coast				
Management Authority	National Marine Fisheries Service, US national management				
Assessor	Northwest Fisheries Science Center				
Asmts in RAM	2017, 2012, 2005				

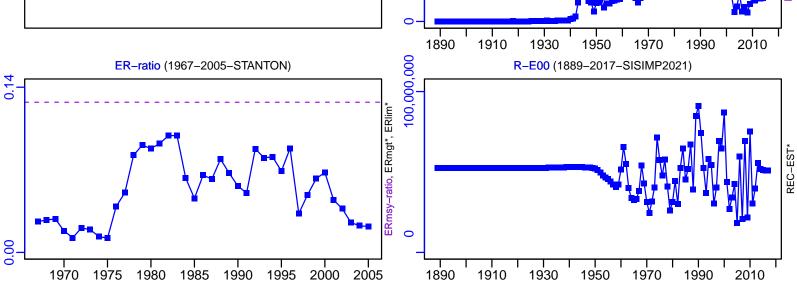
Reference Points						
Type	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2005	37,123			
SSBmsy	SSBmsy-E00eggs	2017	6×10^{12}			
Fmsy	Fmsy-1/yr	2017	0.5			
ERmsy	ERmsy-ratio	2005	0.126			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	TB0-MT	2005	120,024			
SSB0	SSB0-MT	2005	31,016			
MSY	MSY-MT	2017	5434			
M	M-1/yr	2005	0.11			
TBlim	-	-	-			
SSBlim	SSBlim-E00eggs	2017	4×10^{12}			
Flim	Flim-1/yr	2017	0.5			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2017	124,456	-	-		
SSB	SSB-E00eggs	2017	1.13×10^{13}	-	-		
TN	-	-	-	-	-		
R	R-E00	2017	49,090,800	-	0		
F	F-1/yr	2017	0.147	-	-		
ER	ER-calc-ratio	2017	0.012	-	-		
TC	TC-MT	2017	1449				
TL	-	-	-				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.999				
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2017	1.883				
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.294				
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.172				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]







Listed time series ---- Target BRP MSY-based BRP ---- Lim BRP

Rec-Est No Data

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