US West Coast Stocks

v4.61 (Apr-02-2023)

Not present Present Preferred

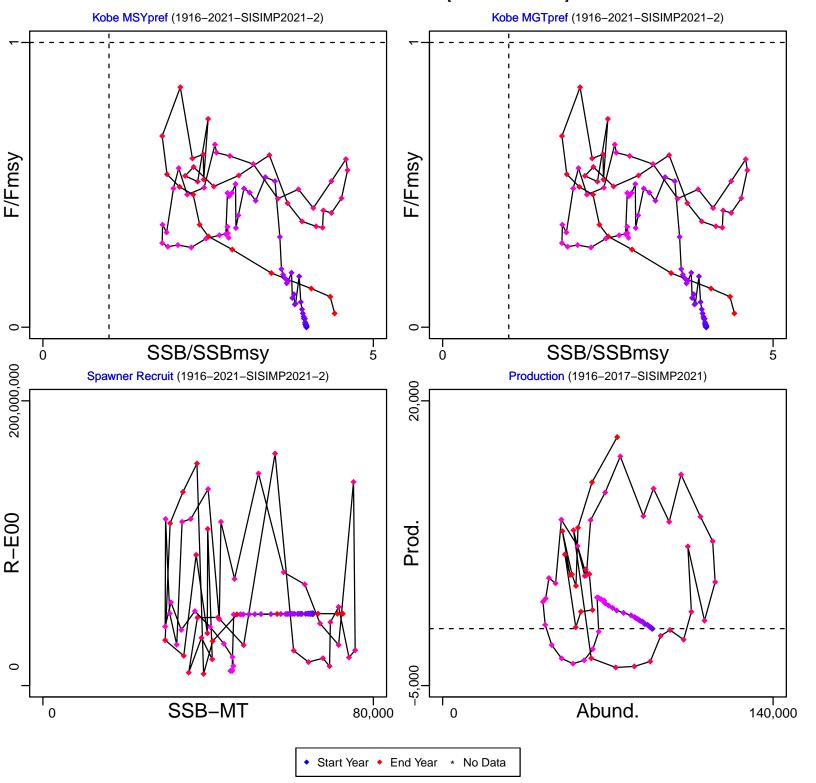
	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
ARFLOUNDPCOAST [Arrowtooth flounder Pacific Coast]	TB SSB	ER F	TB SSB	ER F
AUROCKPCOAST [Aurora rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
3. BGROCKPCOAST [Blackgill rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
BIGSKAPCOAST [Big skate Pacific Coast]	TB SSB	ER F	TB SSB	ER F
5. BLACKROCKCAL [Black rockfish California]	TB SSB	ER F	TB SSB	ER F
6. BLACKROCKORECOAST [Black rockfish Oregon Coast]	TB SSB	ER F	TB SSB	ER F
7. BLACKROCKWASH [Black rockfish Washington]	TB SSB	ER F	TB SSB	ER F
8. BLUEROCKCAL [Blue rockfish California]	TB SSB	ER F	TB SSB	ER F
9. BNKROCKCAL [Bank rockfish California]	TB SSB	ER F	TB SSB	ER F
10. BOCACCSPCOAST [Bocaccio Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
11. BRNROCKPCOAST [Brown rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
12. CABEZNCAL [Cabezon Northern California]	TB SSB	ER F	TB SSB	ER F
13. CABEZORECOAST [Cabezon Oregon Coast]	TB SSB	ER F	TB SSB	ER F
14. CABEZSCAL [Cabezon Southern California]	TB SSB	ER F	TB SSB	ER F
15. CABEZWASH [Cabezon Washington]	TB SSB	ER F	TB SSB	ER F
16. CALSCORPSCAL [California scorpionfish Southern California]	TB SSB	ER F	TB SSB	ER F
17. CHILISPCOAST [Chilipepper Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
18. CHROCKCPCOAST [China rockfish Central Pacific Coast]	TB SSB	ER F	TB SSB	ER F
19. CHROCKNPCOAST [China rockfish Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
20. CHROCKSPCOAST [China rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
21. CMACKPCOAST [Pacific chub mackerel Pacific Coast]	TB SSB	ER F	TB SSB	ER F
22. COWCODSCAL [Cowcod Southern California]	TB SSB	ER F	TB SSB	ER F
23. CPRROCKPCOAST [Copper rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
24. CROCKPCOAST [Canary rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
25. DKROCKPCOAST [Darkblotched rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
26. DSOLEPCOAST [Dover sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
27. ESOLEPCOAST [English sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
28. GOPHERSPCOAST [Gopher rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
29. GRNSTROCKPCOAST [Greenstriped rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
30. GRSPROCKNCAL [Greenspotted rockfish Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
31. GRSPROCKSCAL [Greenspotted rockfish Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
32. KELPGREENLINGORECOAST [Kelp greenling Oregon Coast]	TB SSB	ER F	TB SSB	ER F
33. LINGCODNPCOAST [Lingcod Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
34. LINGCODSPCOAST [Lingcod Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
35. LNOSESKAPCOAST [Longnose skate Pacific Coast]	TB SSB	ER F	TB SSB	ER F
36. LSTHORNHPCOAST [Longspine thornyhead Pacific Coast]	TB SSB	ER F	TB SSB	ER F
37. PGEODWA [Pacific geoduck Washington]	TB SSB	ER F	TB SSB	ER F
38. PHAKEPCOAST [Pacific hake Pacific Coast]	TB SSB	ER F	TB SSB	ER F
39. POPERCHPCOAST [Pacific ocean perch Pacific Coast]	TB SSB	ER F	TB SSB	ER F

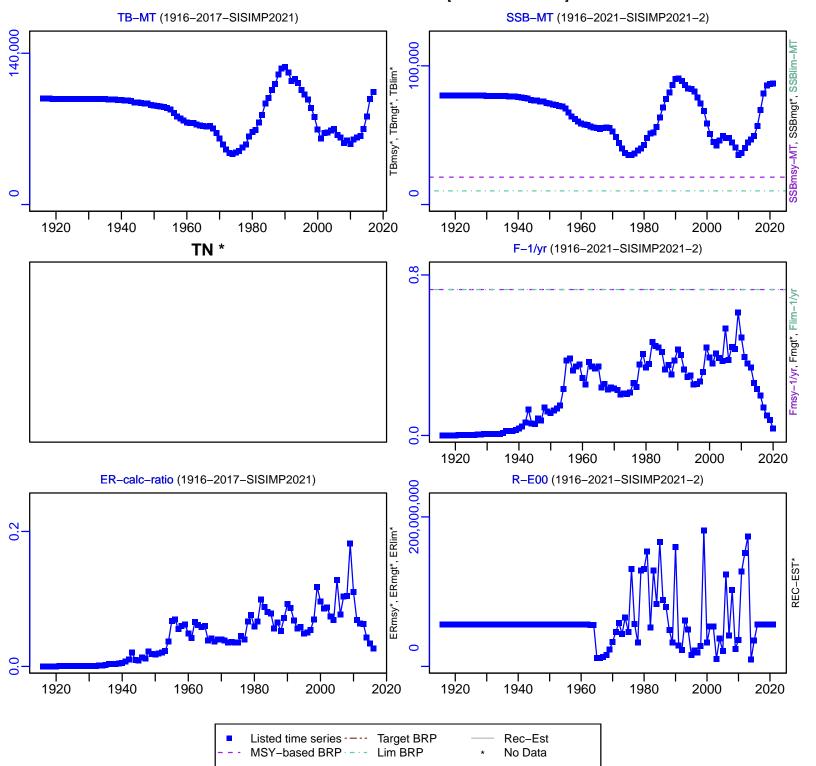
40. PSOLEPCOAST [Petrale sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
41. REXSOLEPCOAST [Rex sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
42. SABLEFPCOAST [Sablefish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
43. SARDPCOAST [Pacific sardine Pacific Coast]	TB SSB	ER F	TB SSB	ER F
44. SBELLYROCKPCOAST [Shortbelly rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
45. SHCROCKPCOAST [Sharpchin rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
46. SNROCKPCOAST [Splitnose rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
47. SPSDOGPCOAST [Spotted spiny dogfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
48. SSTHORNHPCOAST [Shortspine thornyhead Pacific Coast]	TB SSB	ER F	TB SSB	ER F
49. STFLOUNNPCOAST [Starry flounder Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
50. STFLOUNSPCOAST [Starry flounder Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
51. WROCKPCOAST [Widow rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
52. YEYEROCKPCOAST [Yelloweye rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
53. YTROCKNPCOAST [Yellowtail rockfish Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F

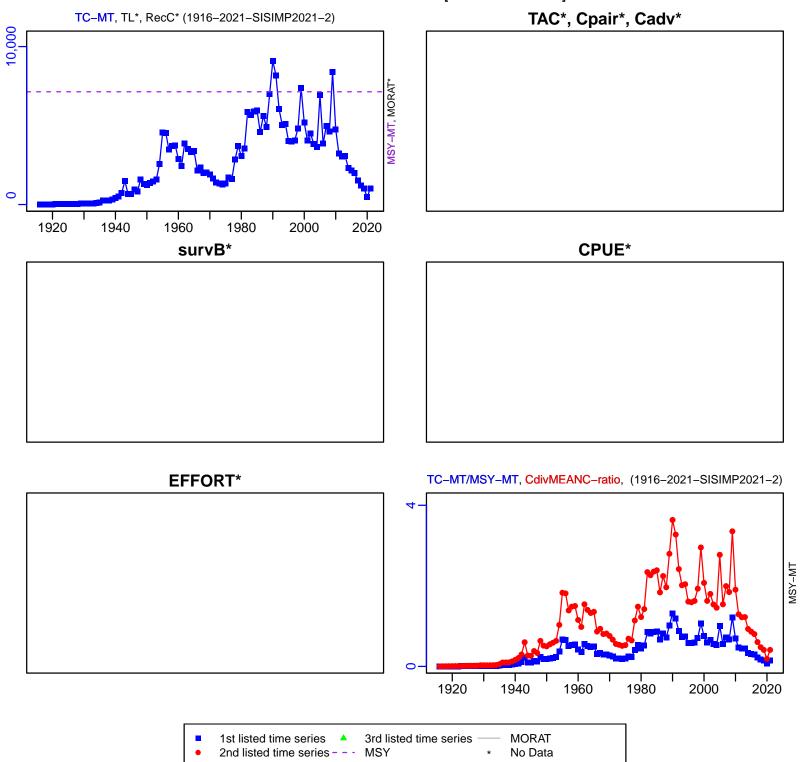
Metadata				
Scientific Name	Atheresthes stomias			
Current Assess ID	NWFSC-ARFLOUNDPCOAST-1916-2021-SISIMP2021-2			
Area	Pacific Coast			
Management Authority National Marine Fisheries Service, US national management				
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2015, 2007, 2017, 2021			

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	44,591	
SSBmsy	SSBmsy-MT	2021	16,400	
Fmsy	Fmsy-1/yr	2021	0.7	
ERmsy	ERmsy-ratio	2007	0.131	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	80,313	
MSY	MSY-MT	2021	6760	
M	M-1/yr	2007	0.166	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2021	8180	
Flim	Flim-1/yr	2021	0.7	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	94,534	-	-
SSB	SSB-MT	2021	72,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	50,500,000	-	0
F	F-1/yr	2021	0.034	-	-
ER	ER-calc-ratio	2017	0.021	-	-
TC	TC-MT	2021	970		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.868		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	4.427		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.049		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.218		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



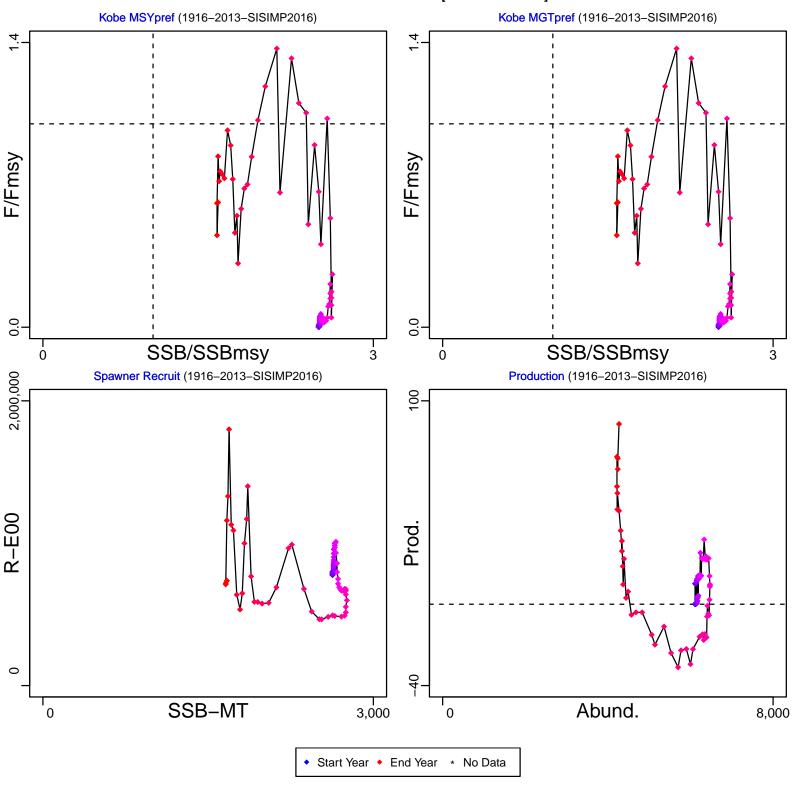


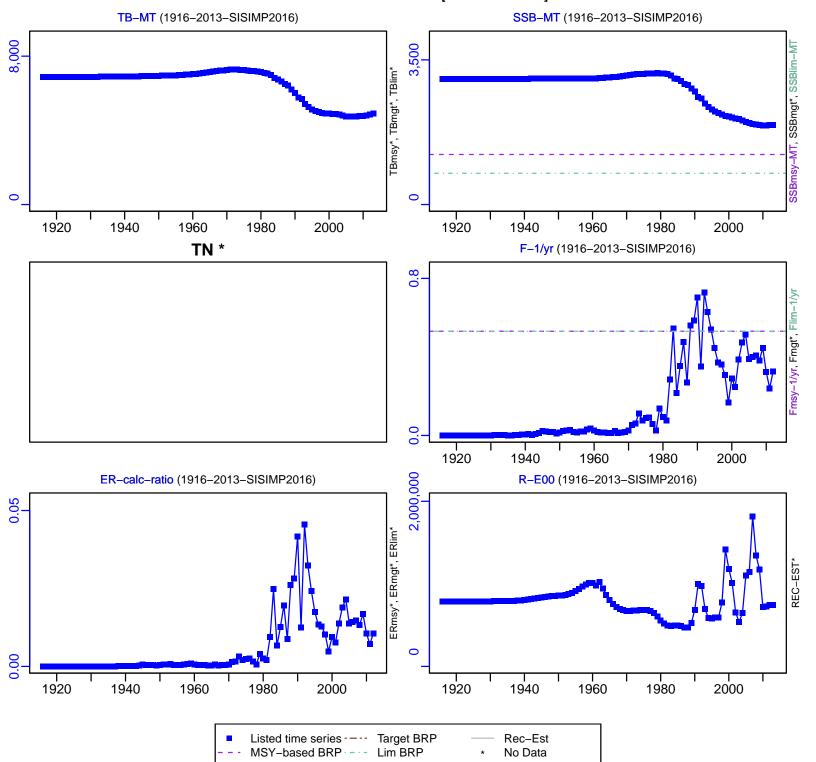


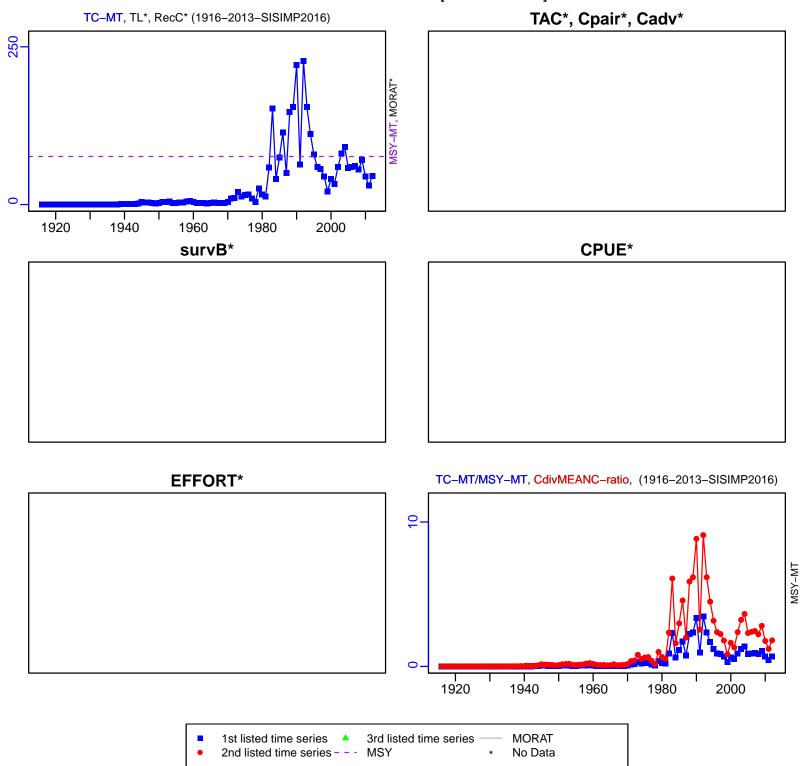
Metadata				
Scientific Name	Sebastes aurora			
Current Assess ID	NWFSC-AUROCKPCOAST-1916-2013-SISIMP2016			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2013			

Reference Points				
Туре	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	
M	-	-	-	
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	-	-	-			







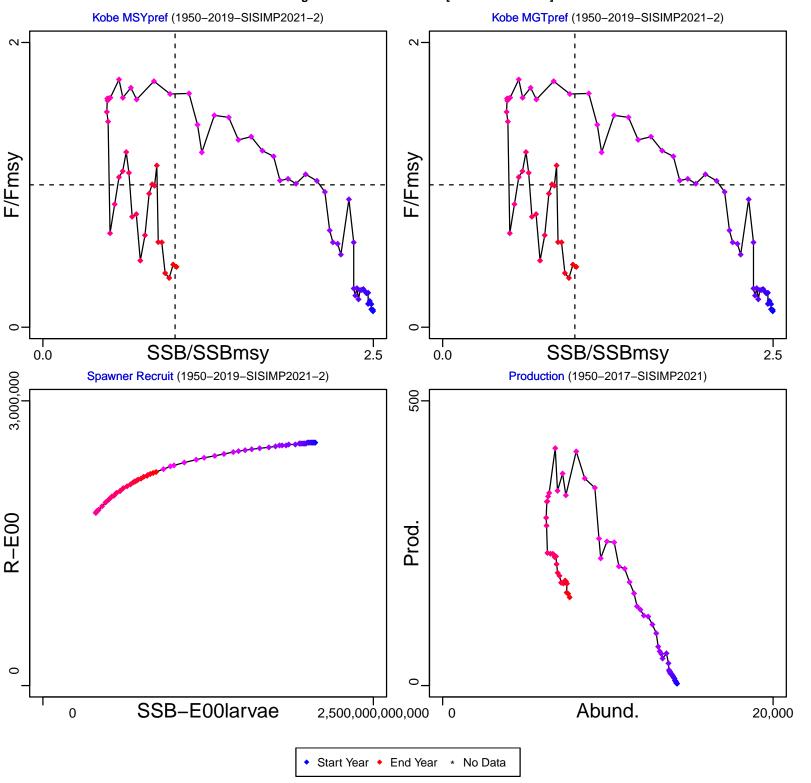
Blackgill rockfish Pacific Coast [BGROCKPCOAST]

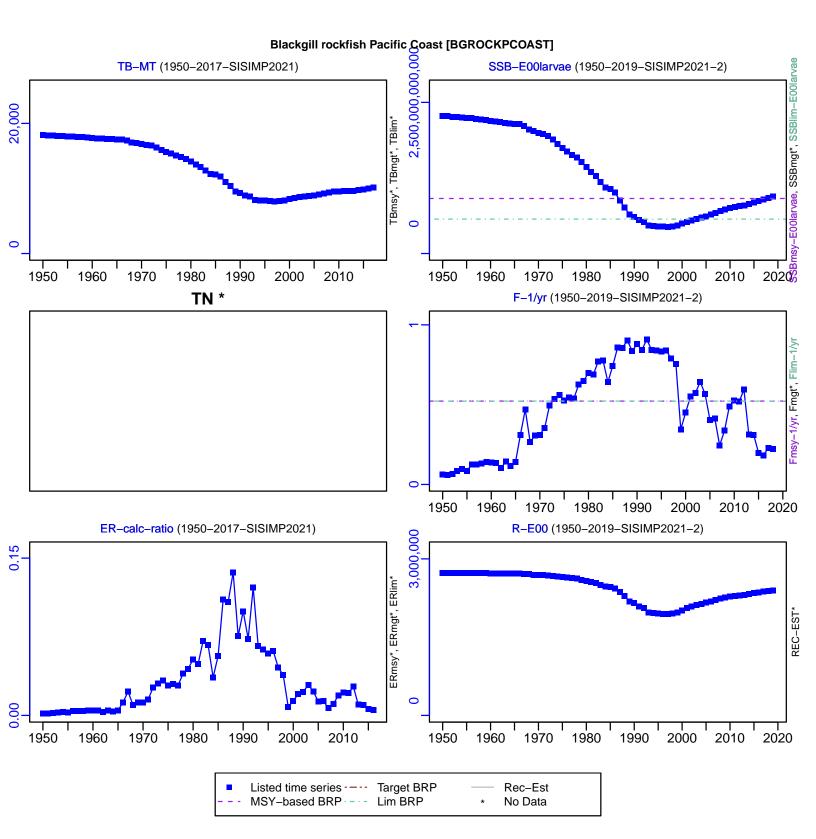
Metadata				
Scientific Name	Scientific Name Sebastes melanostomus			
Current Assess ID	Current Assess ID NWFSC-BGROCKPCOAST-1950-2019-SISIMP2021-2			
Area Pacific Coast				
Management Authority National Marine Fisheries Service, US national management				
Assessor Northwest Fisheries Science Center				
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		
M	M-1/yr	2011	0.07		
TBlim	-	-	-		
SSBlim	SSBlim-E00larvae	2019	5.16×10^{11}		
Flim	Flim-1/yr	2019	0.5		
ERlim	-	-	-		

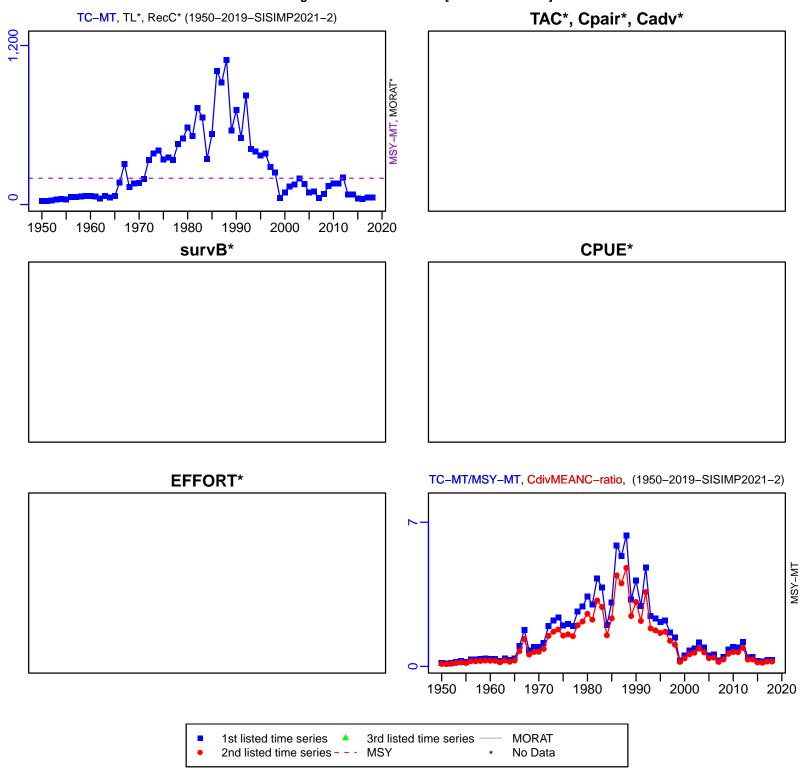
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	7910	-	-
SSB	SSB-E00larvae	2019	8.56×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,250,000	-	0
F	F-1/yr	2019	0.212	-	-
ER	ER-calc-ratio	2017	0.005	-	-
TC	TC-MT	2019	51		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.302		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae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

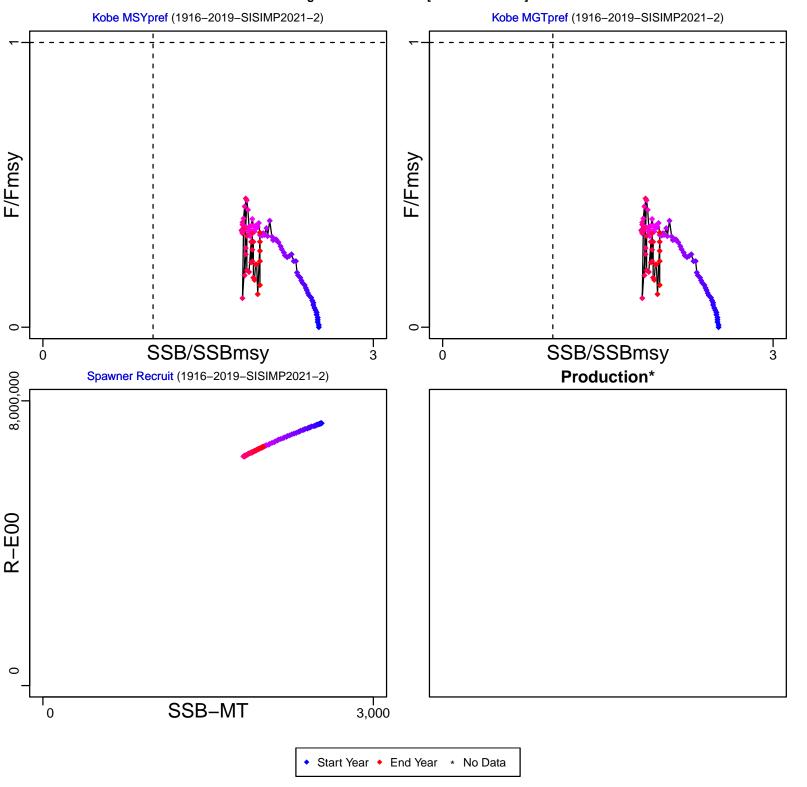


Big skate Pacific Coast [BIGSKAPCOAST]

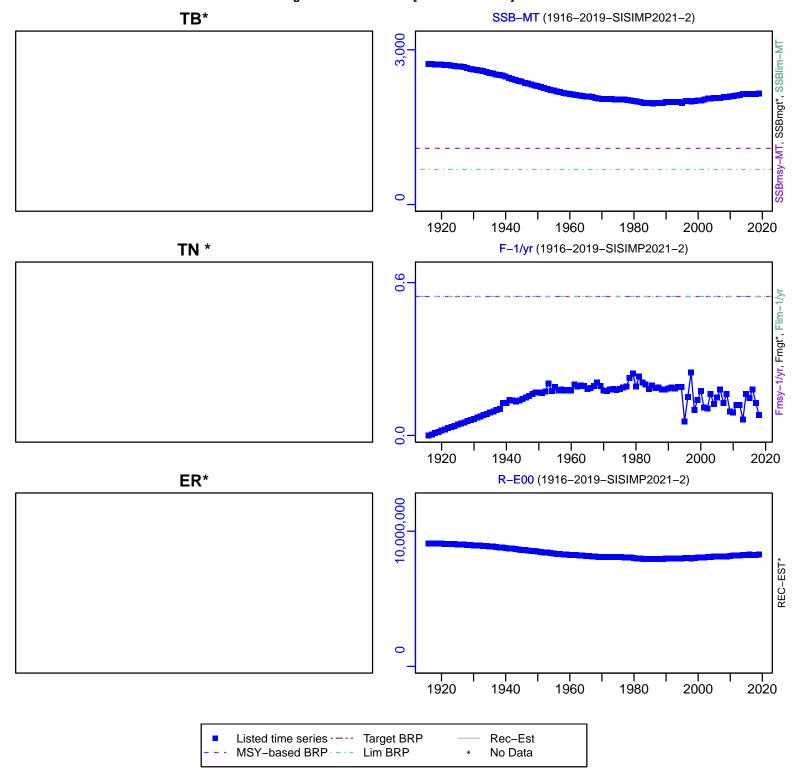
Metadata				
Scientific Name	Raja binoculata			
Current Assess ID	NWFSC-BIGSKAPCOAST-1916-2019-SISIMP2021-2			
Area	Pacific Coast			
Management Authority National Marine Fisheries Service, US national management				
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2019			

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	1010
Fmsy	Fmsy-1/yr	2019	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	703
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	631
Flim	Flim-1/yr	2019	0.5
ERlim	-	-	-

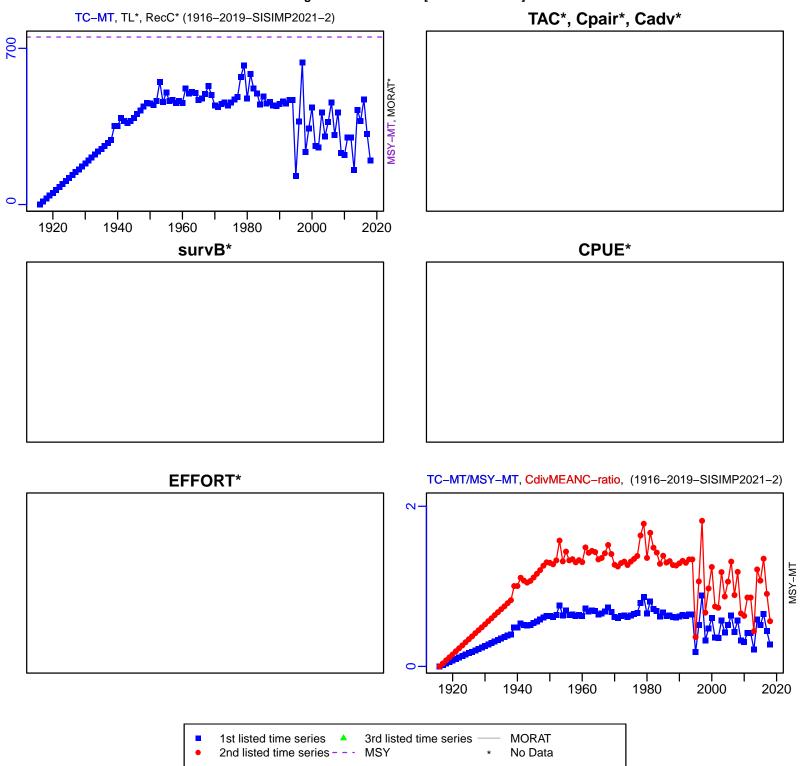
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	2000	-	-
TN	-	-	-	-	-
R	R-E00	2019	6,710,000	-	0
F	F-1/yr	2019	0.074	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	185		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.98		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.148		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Big skate Pacific Coast [BIGSKAPCOAST]



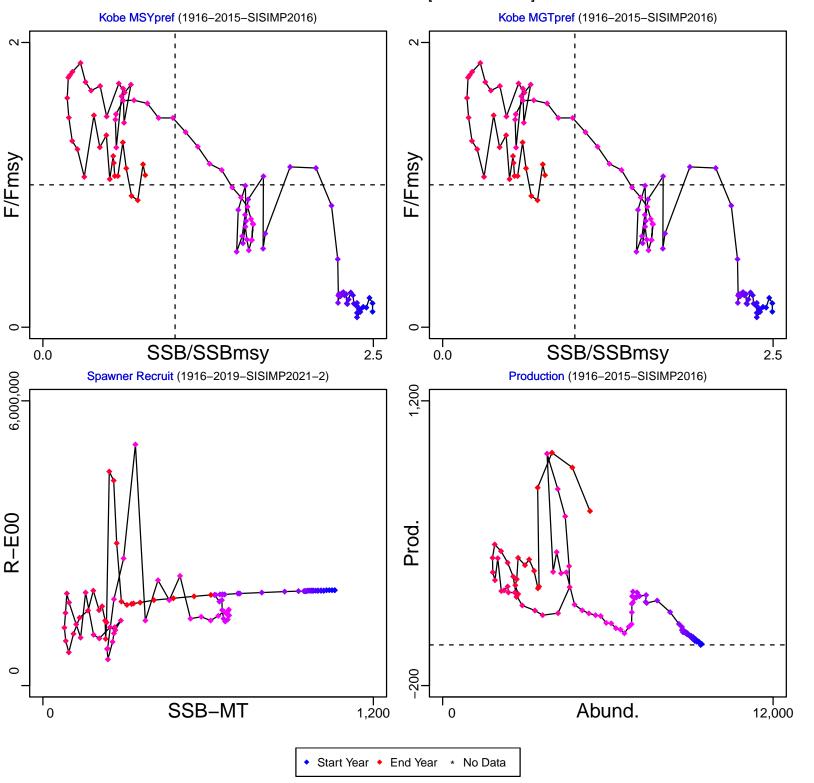
Big skate Pacific Coast [BIGSKAPCOAST]

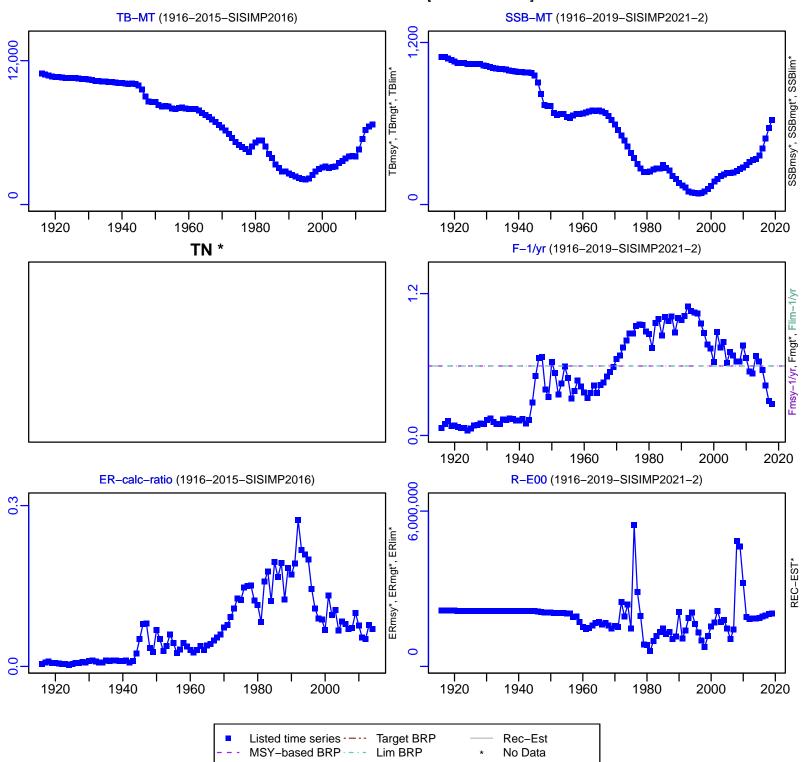


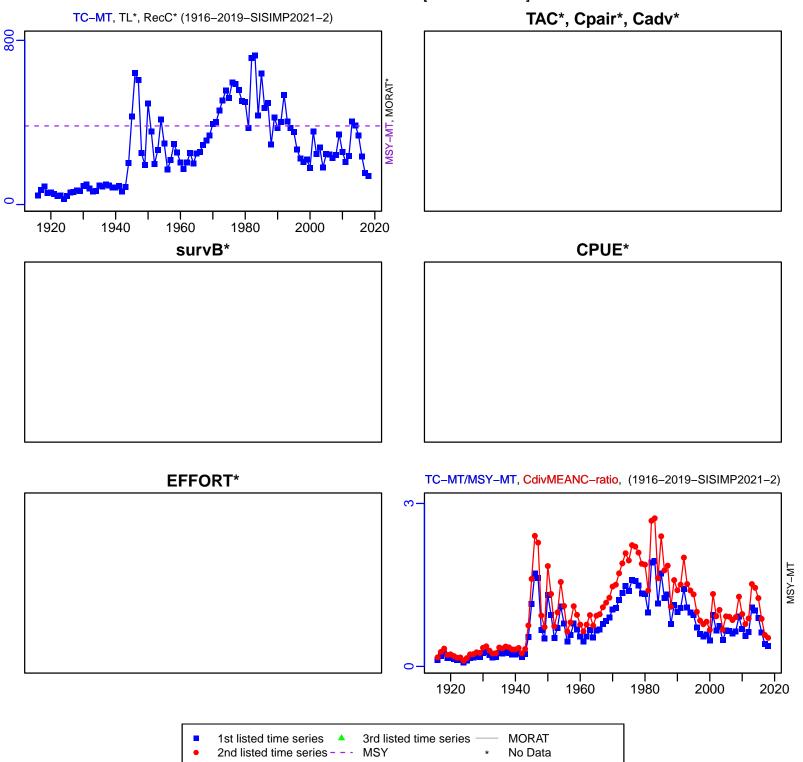
Metadata			
Scientific Name	Sebastes melanops		
Current Assess ID	SWFSC-BLACKROCKCAL-1916-2019-SISIMP2021-2		
Area	California		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2015, 2019		

	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	
М	-	-	-	
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	-	-	-		







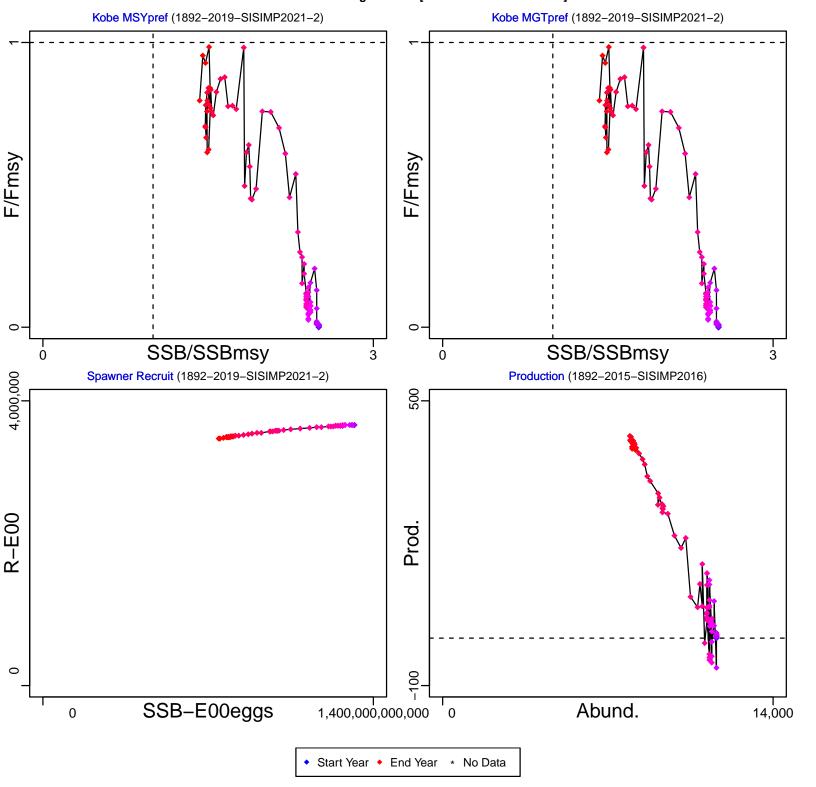
Black rockfish Oregon Coast [BLACKROCKORECOAST]

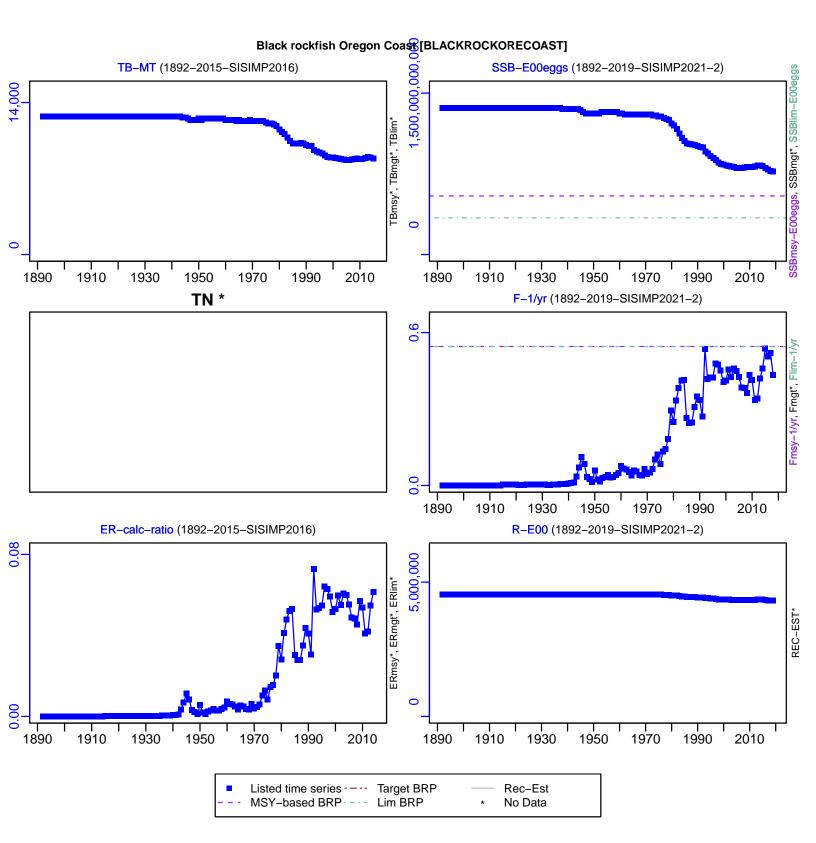
Metadata			
Scientific Name	Sebastes melanops		
Current Assess ID	NWFSC-BLACKROCKORECOAST-1892-2019-SISIMP2021-2		
Area	Oregon Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2019		

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	-	-	-

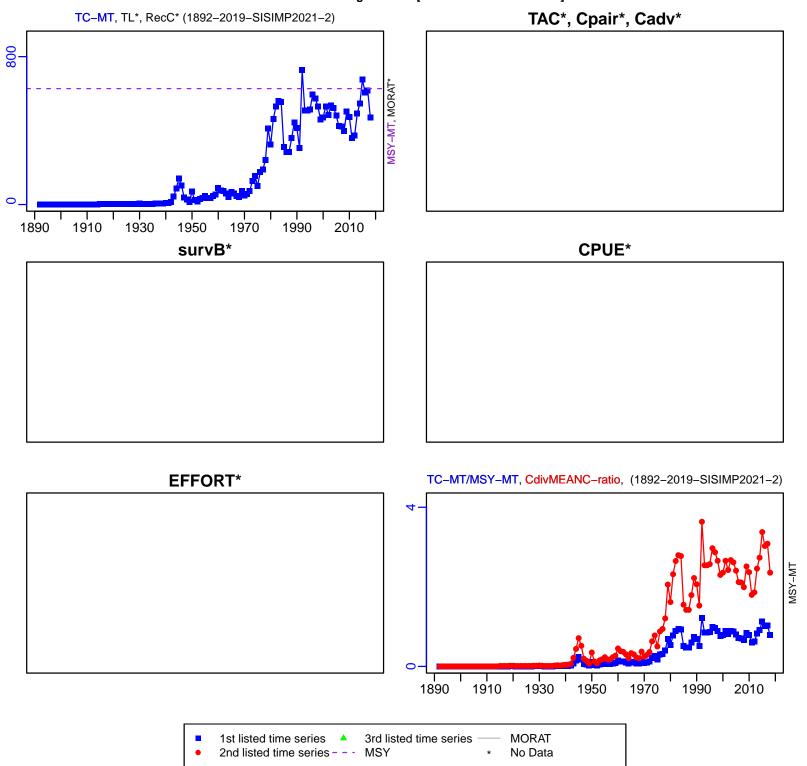
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	8060	-	3+
SSB	SSB-E00eggs	2019	7.45×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,470,000	-	0
F	F-1/yr	2019	0.398	-	-
ER	ER-calc-ratio	2015	0.06	-	-
TC	TC-MT	2019	418		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019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



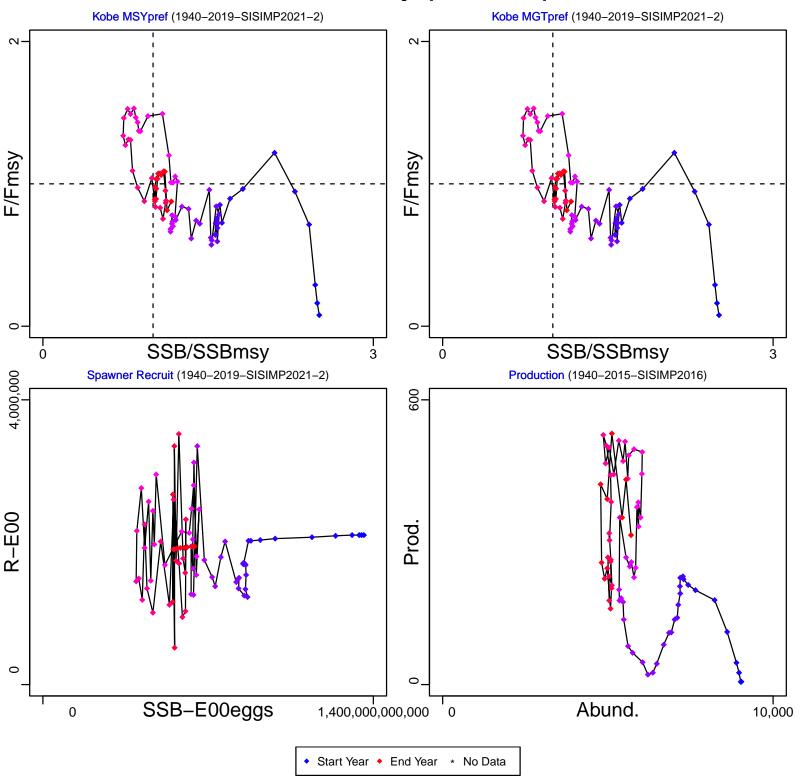
Black rockfish Washington [BLACKROCKWASH]

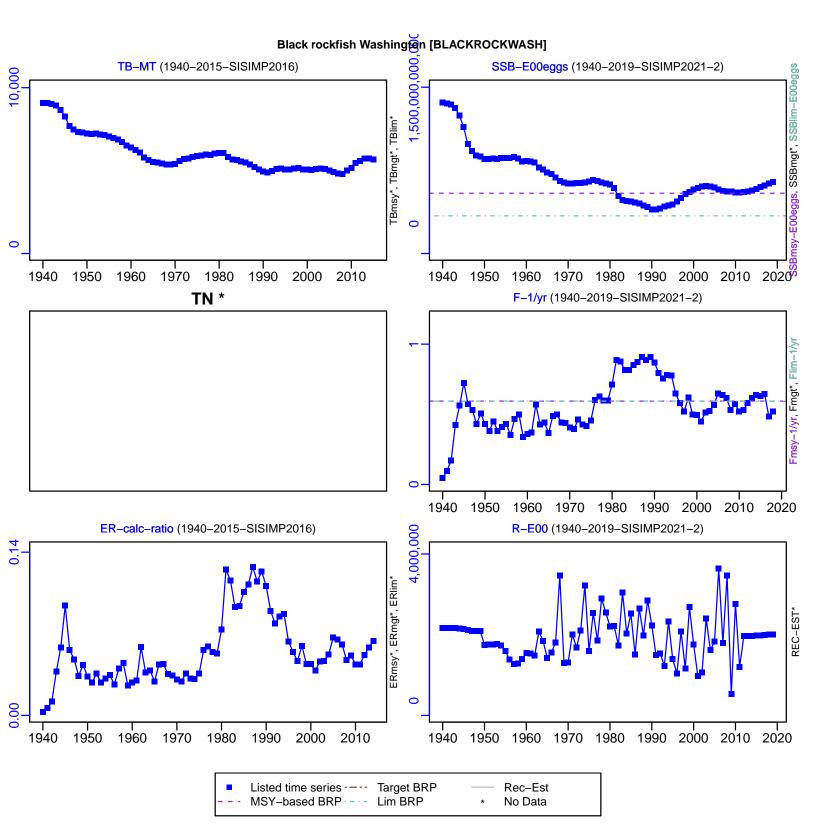
Metadata			
Scientific Name	Sebastes melanops		
Current Assess ID	NWFSC-BLACKROCKWASH-1940-2019-SISIMP2021-2		
Area	Washington		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2019		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2019	5.42×10^{11}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2019	337	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2019	3.39×10^{11}	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

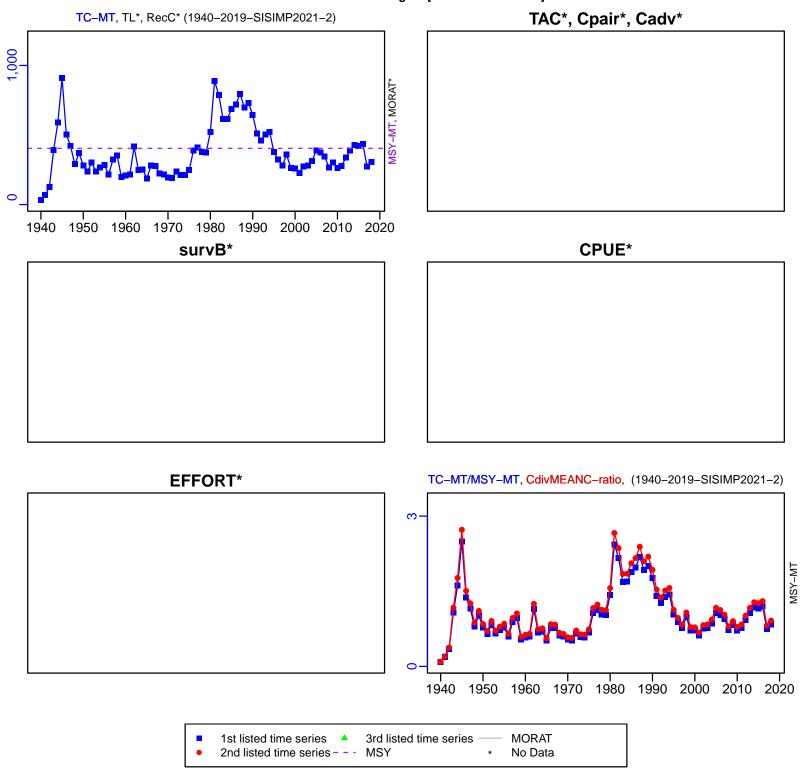
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5640	-	3+
SSB	SSB-E00eggs	2019	6.43×10^{11}	-	-
TN	-	-	-	-	-
R	R-E00	2019	1,940,000	-	0
F	F-1/yr	2019	0.438	-	-
ER	ER-calc-ratio	2015	0.063	-	-
TC	TC-MT	2019	254		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	1.186		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.876		
ER/ERmsy	1	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish Washington [BLACKROCKWASH]





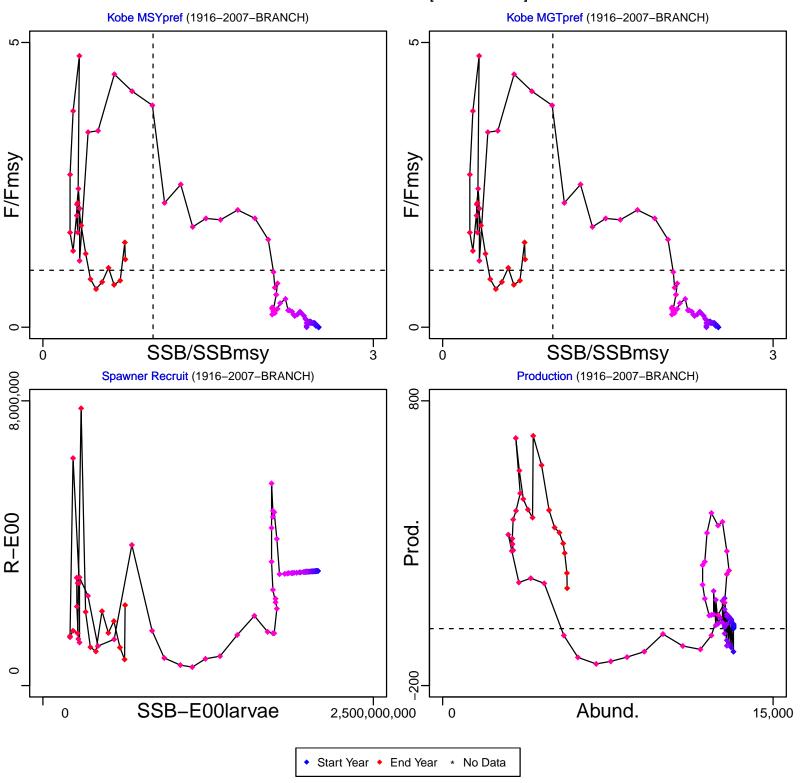
Black rockfish Washington [BLACKROCKWASH]

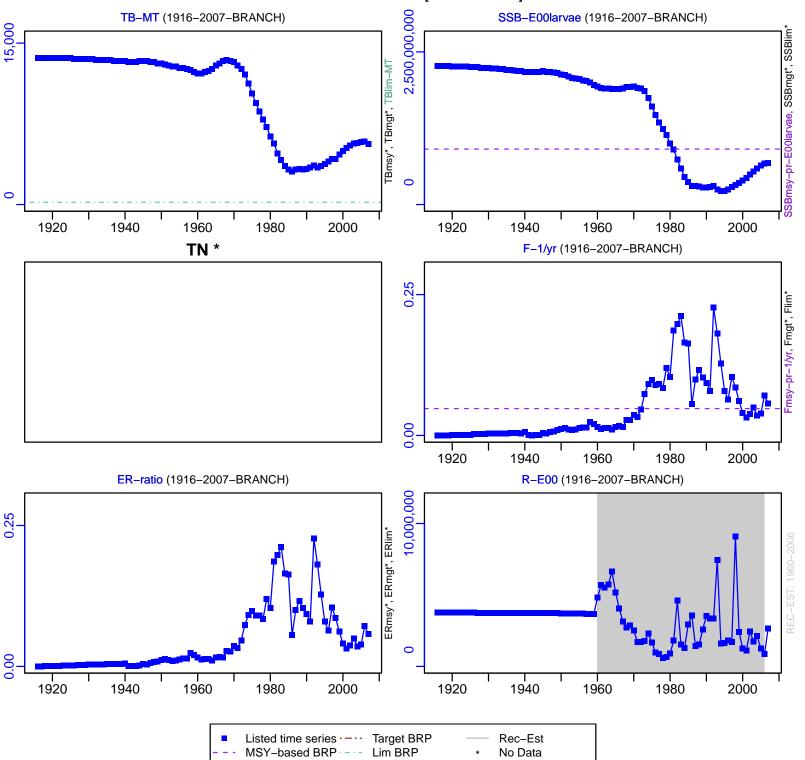


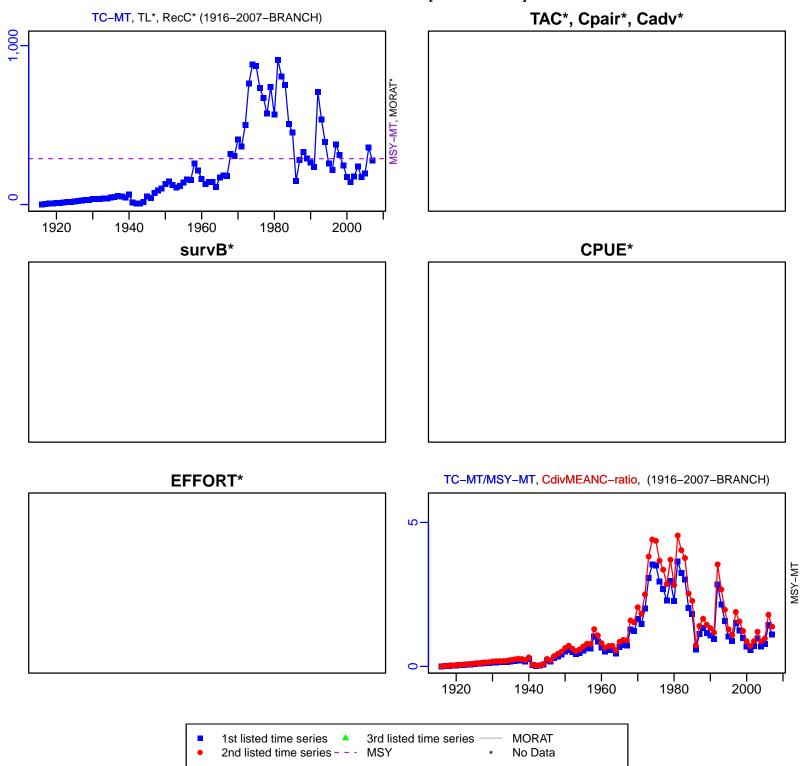
Metadata			
Scientific Name	Sebastes mystinus		
Current Assess ID	NWFSC-BLUEROCKCAL-1916-2007-BRANCH		
Area	California		
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2007		

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	
М	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	-	-	-		







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	

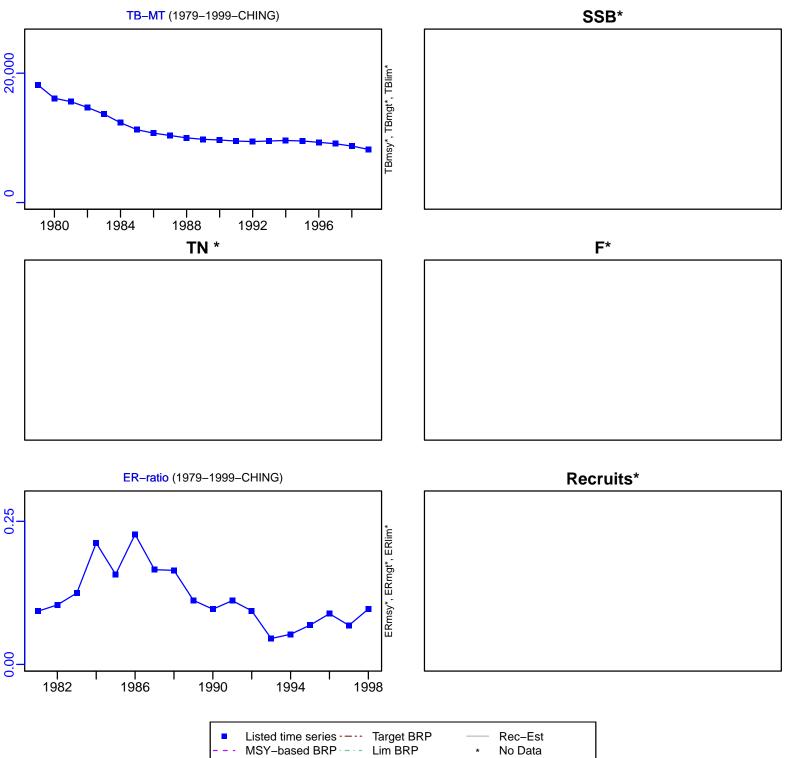
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
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*
L	
Spawner Recruit*	Production*

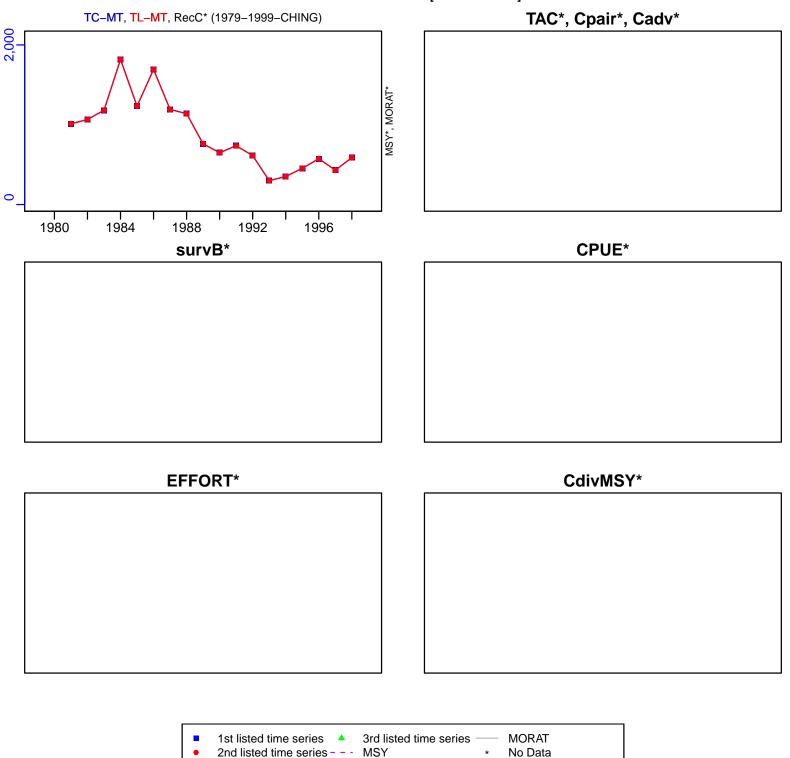
◆ Start Year ◆ End Year * No Data

Bank rockfish California [BNKROCKCAL]



No Data

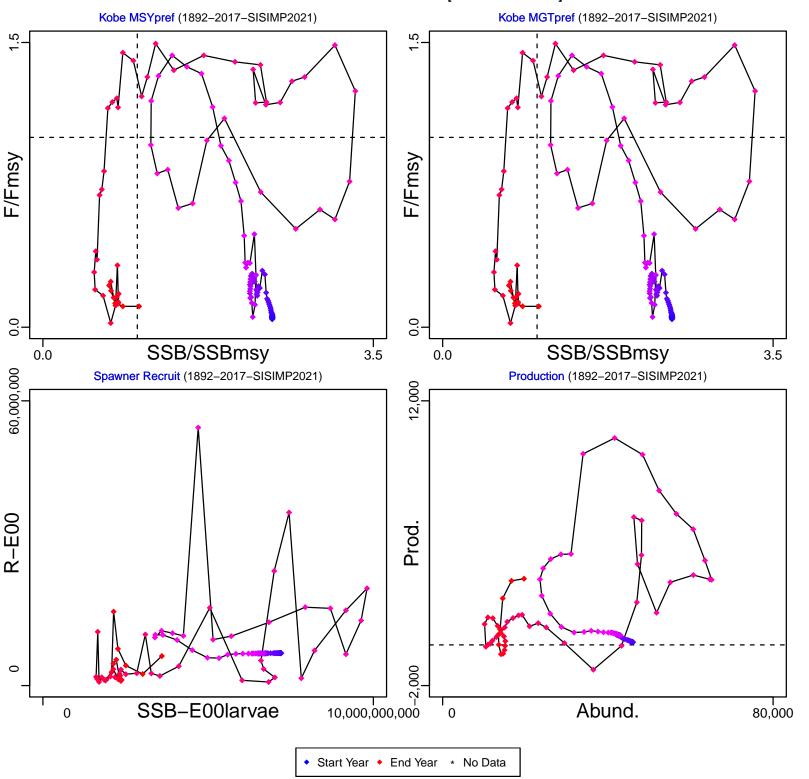
Bank rockfish California [BNKROCKCAL]

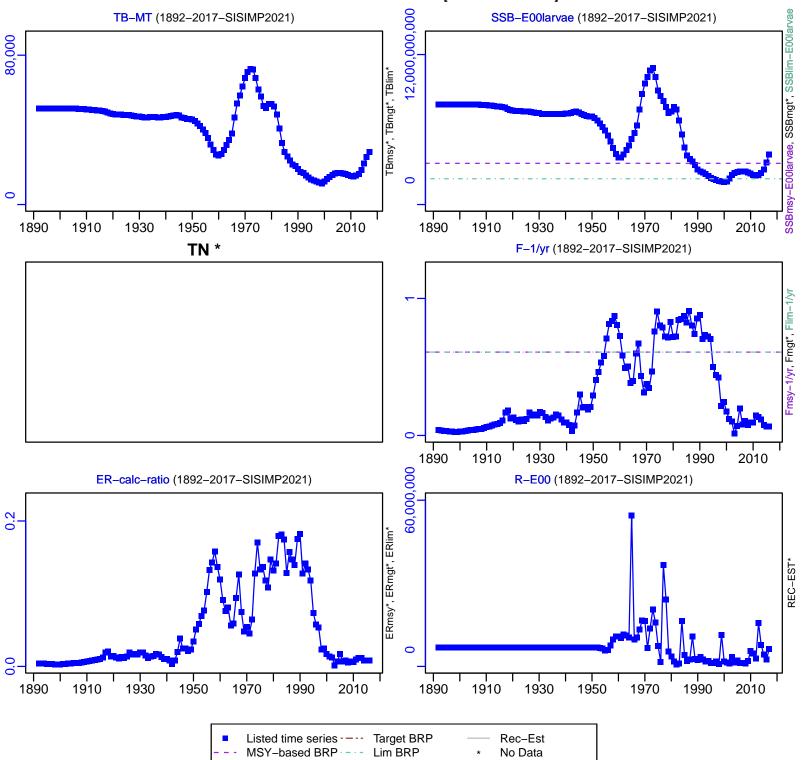


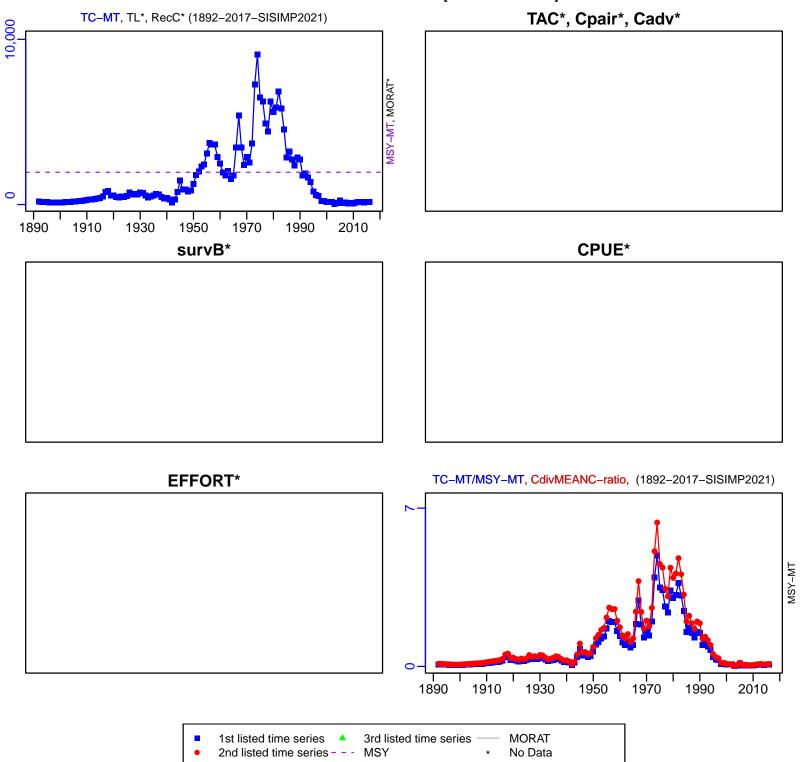
Metadata			
Scientific Name	Sebastes paucispinis		
Current Assess ID	SWFSC-BOCACCSPCOAST-1892-2017-SISIMP2021		
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2009, 2017, 2013		

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
M	-	-	-
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	-	-	-		



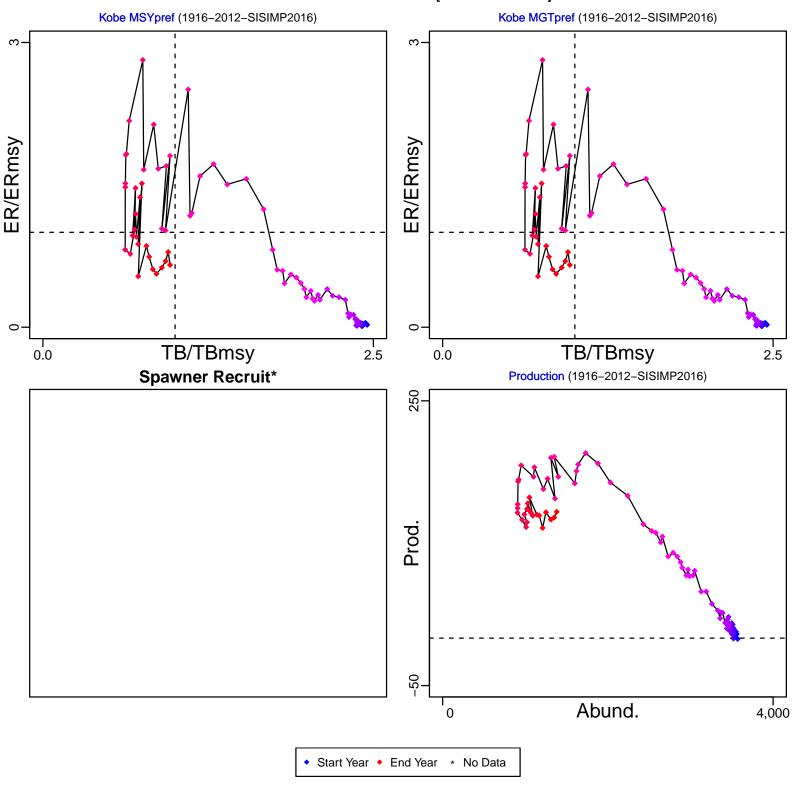


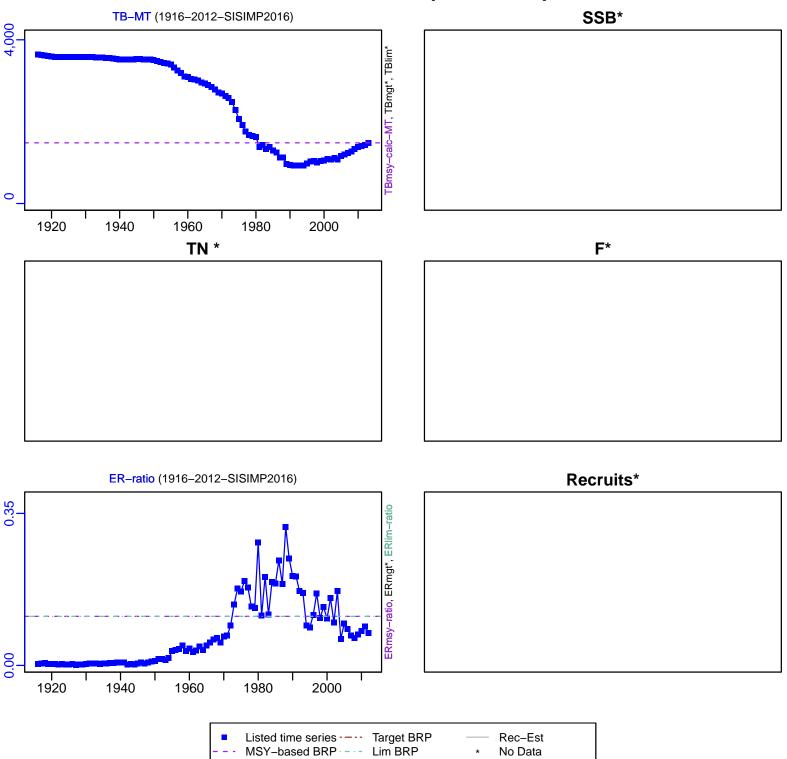


Metadata			
Scientific Name	Sebastes auriculatus		
Current Assess ID	SWFSC-BRNROCKPCOAST-1916-2012-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2012		

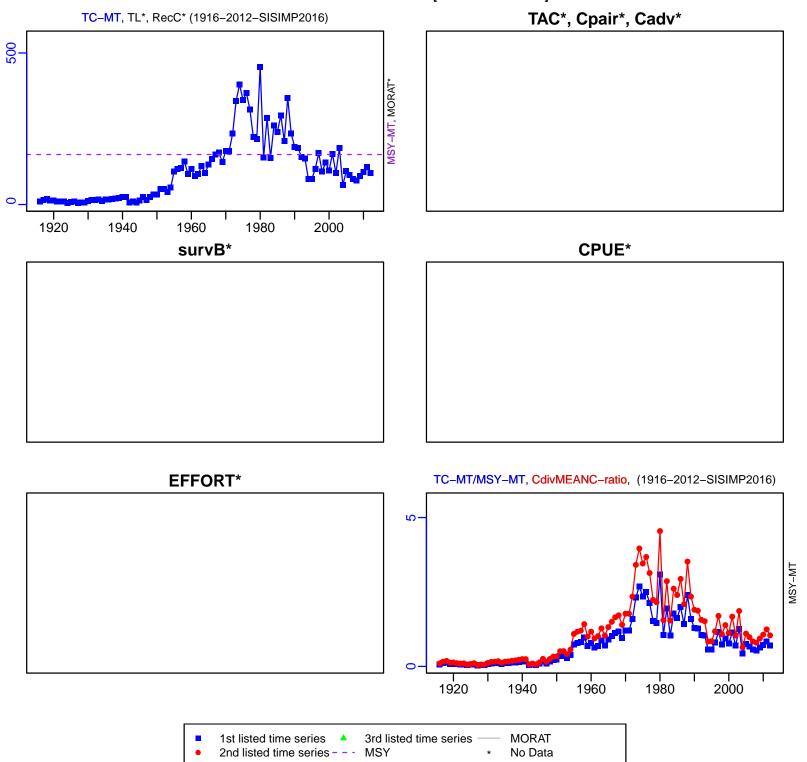
	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	1455	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.103	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	150	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2012	0.103	

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	-	-	-		





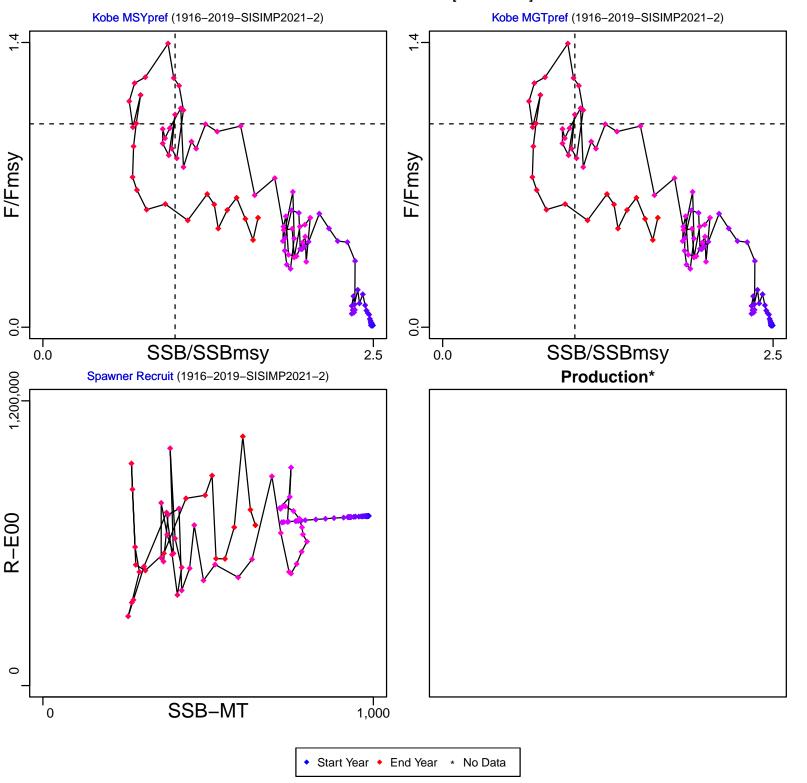
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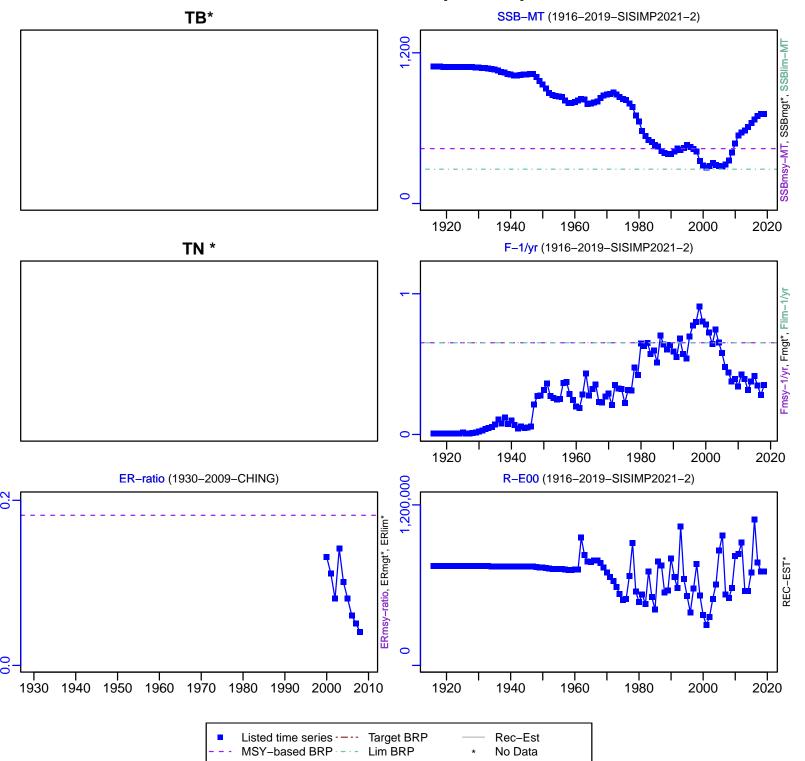


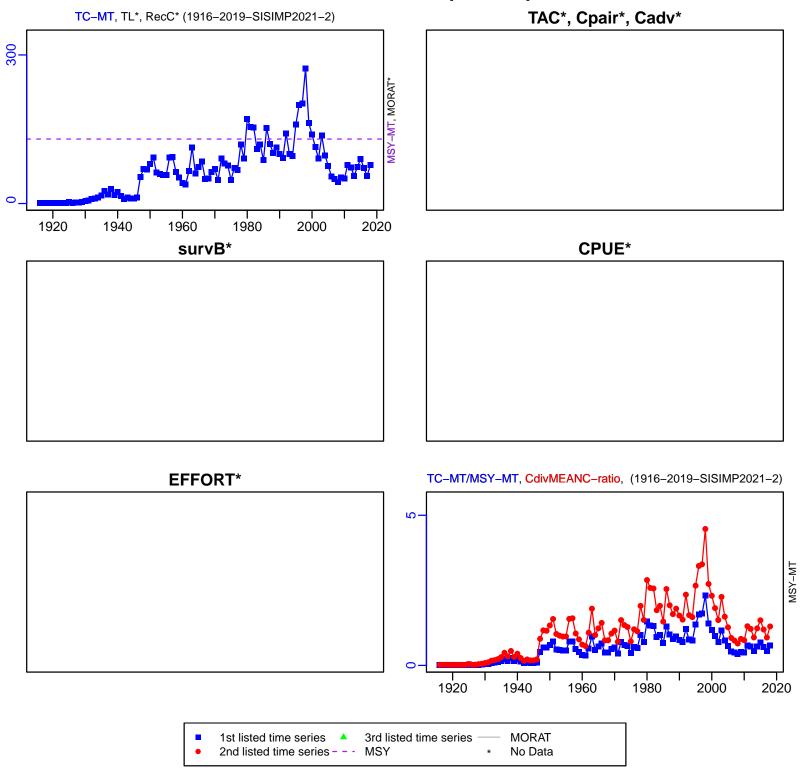
Metadata			
Scientific Name	Scorpaenichthys marmoratus		
Current Assess ID	PFMC-CABEZNCAL-1916-2019-SISIMP2021-2		
Area Northern California			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Pacific Fishery Management Council		
Asmts in RAM	2019, 2009		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2009	717	
SSBmsy	SSBmsy-MT	2019	395	
Fmsy	Fmsy-1/yr	2019	0.55	
ERmsy	ERmsy-ratio	2009	0.18	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2009	1835	
SSB0	SSB0-MT	2009	1036	
MSY	MSY-MT	2019	116	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	247	
Flim	Flim-1/yr	2019	0.55	
ERlim		-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	643	-	-
TN	-	-	-	-	-
R	R-E00	2019	676,000	-	0
F	F-1/yr	2019	0.296	-	-
ER	ER-ratio	2009	0.04	-	-
TC	TC-MT	2019	69		
TL	TL-MT	2009	20		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.628		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.538		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.222		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



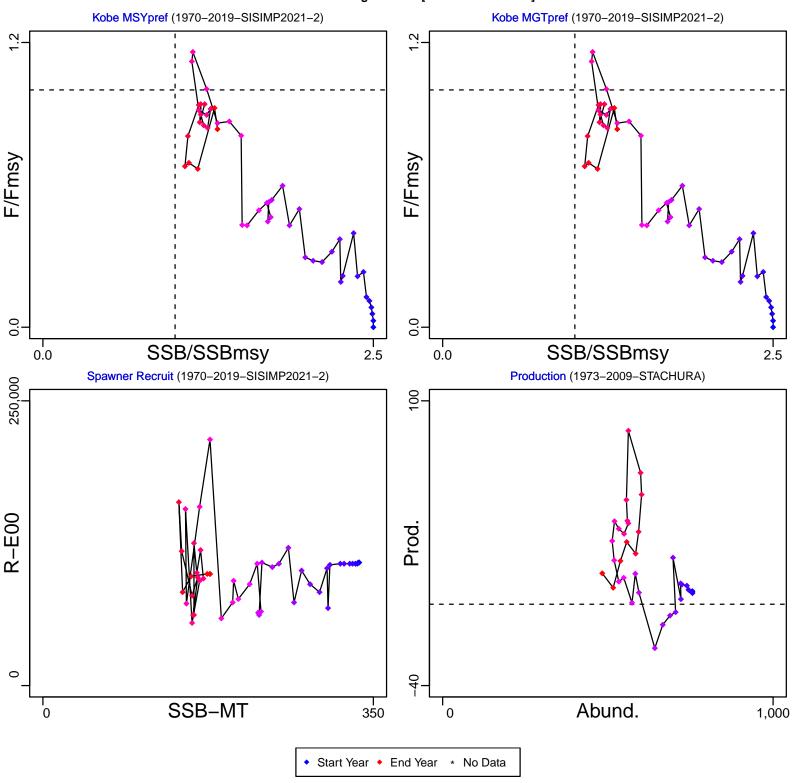


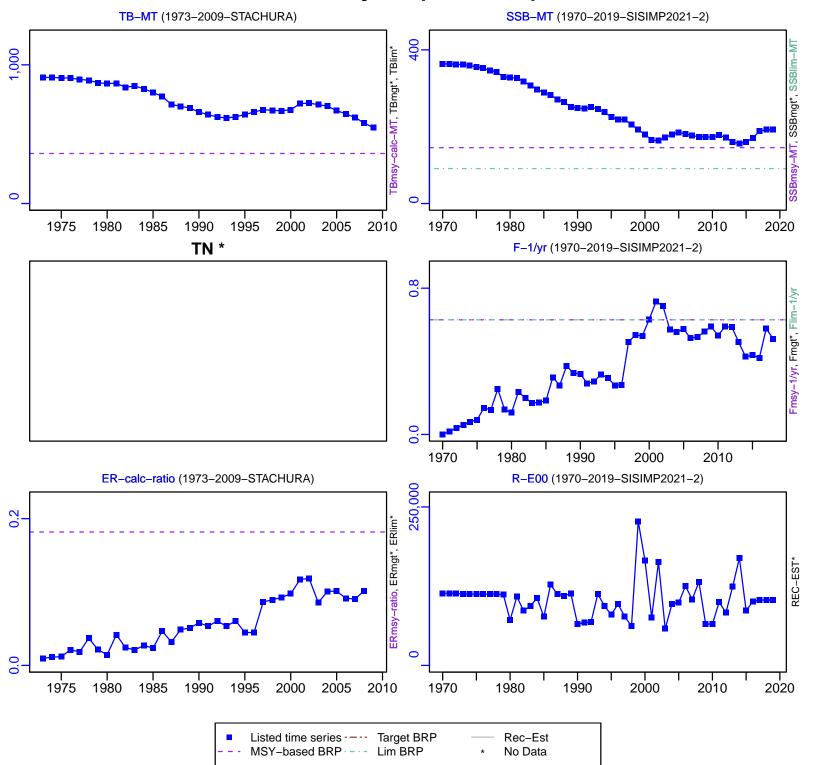


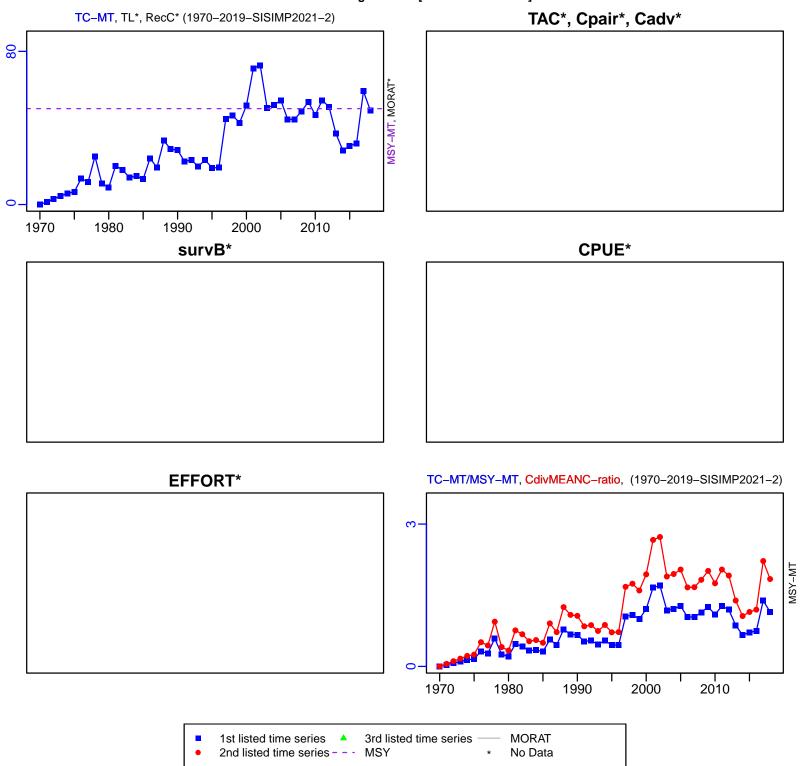
Metadata			
Scientific Name	Scorpaenichthys marmoratus		
Current Assess ID NWFSC-CABEZORECOAST-1970-2019-SISIMP2021-2			
Area Oregon Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2019, 2009		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2009	300
SSBmsy	SSBmsy-MT	2019	134
Fmsy	Fmsy-1/yr	2019	0.55
ERmsy	ERmsy-ratio	2009	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2009	409
MSY	MSY-MT	2019	46
M	M-1/yr	2009	0.25
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	84
Flim	Flim-1/yr	2019	0.55
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	455	-	2+
SSB	SSB-MT	2019	177	-	-
TN	-	-	-	-	-
R	R-E00	2019	98,000	-	0
F	F-1/yr	2019	0.459	-	-
ER	ER-calc-ratio	2009	0.089	-	-
TC	TC-MT	2019	45		
TL	TL-MT	2009	43		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	1.517		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.321		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.835		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2009	0.559		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



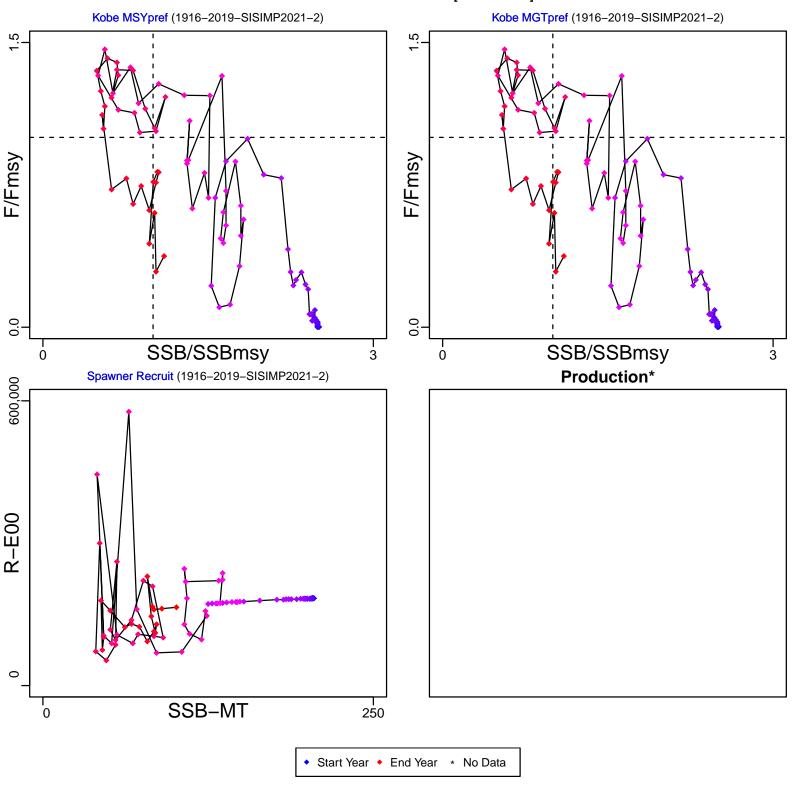


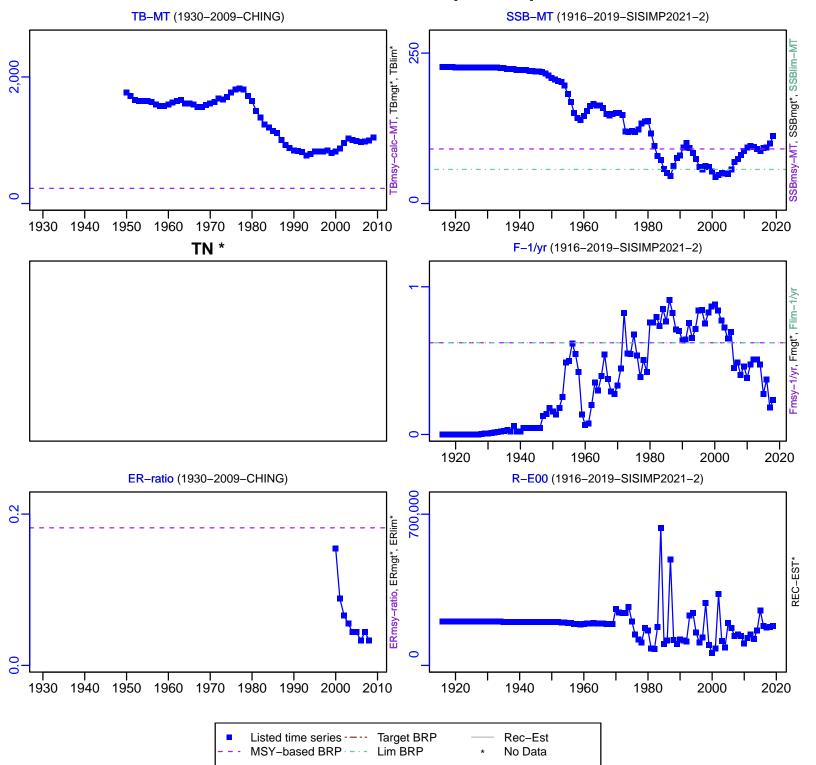


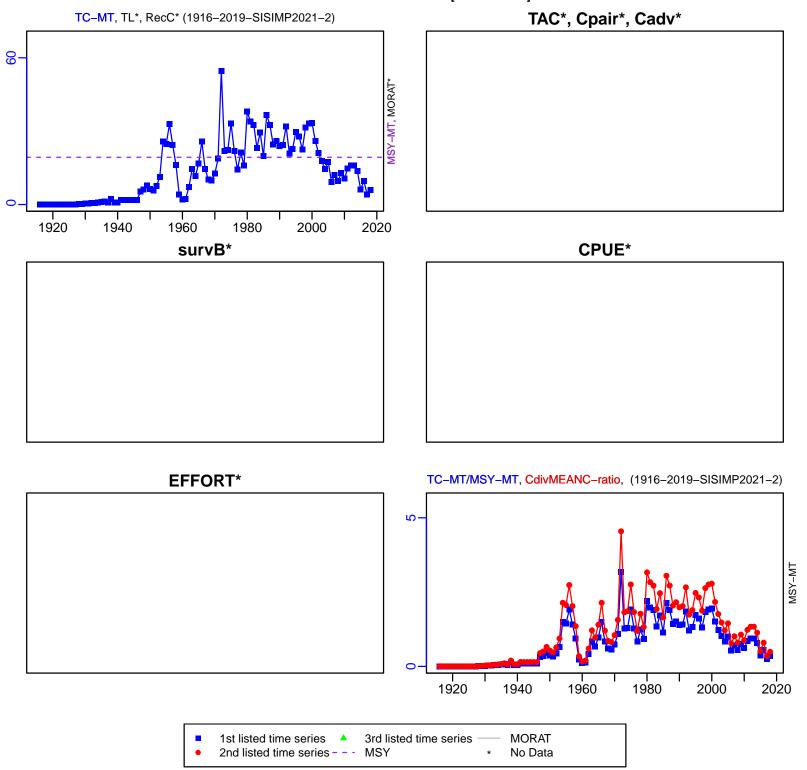
Metadata		
Scientific Name	Scorpaenichthys marmoratus	
Current Assess ID	PFMC-CABEZSCAL-1916-2019-SISIMP2021-2	
Area Southern California		
Management Authority National Marine Fisheries Service, US national management		
Assessor	Pacific Fishery Management Council	
Asmts in RAM	2019, 2009	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2009	182
SSBmsy	SSBmsy-MT	2019	82
Fmsy	Fmsy-1/yr	2019	0.55
ERmsy	ERmsy-ratio	2009	0.165
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2009	470
SSB0	SSB0-MT	2009	263
MSY	MSY-MT	2019	17
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	51
Flim	Flim-1/yr	2019	0.55
ERlim		-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	789	Both	2+
SSB	SSB-MT	2019	101	-	-
TN	-	-	-	-	-
R	R-E00	2019	165,000	-	0
F	F-1/yr	2019	0.206	-	-
ER	ER-ratio	2009	0.03	-	-
TC	TC-MT	2019	5		
TL	TL-MT	2009	3.9		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	4.34		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.235		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.375		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.182		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata		
Scientific Name	Scorpaenichthys marmoratus	
Current Assess ID	NWFSC-CABEZWASH-1963-2018-SISIMP2021-2	
Area Washington		
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2016, 2018	

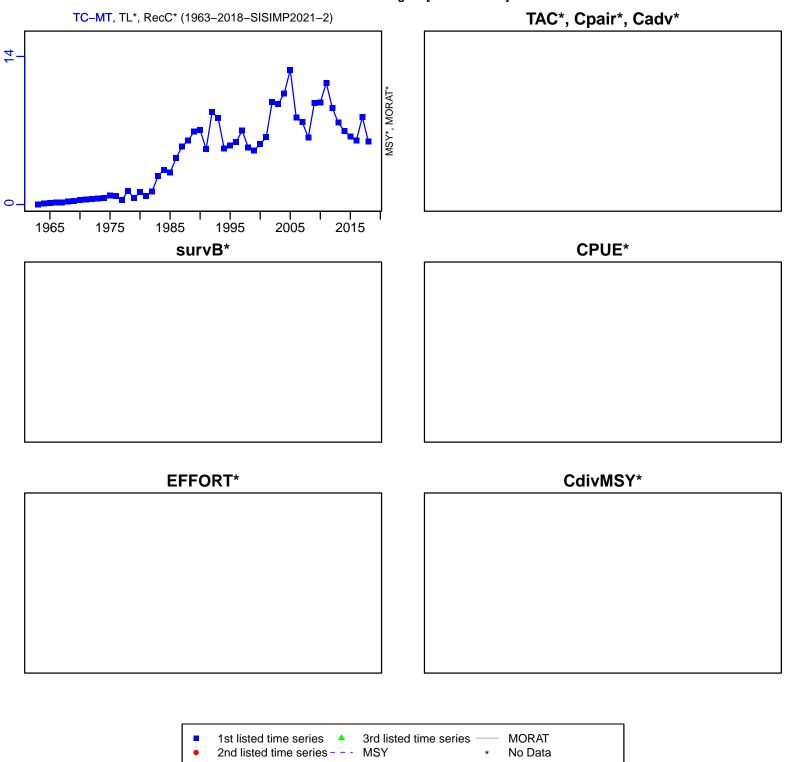
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	5		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

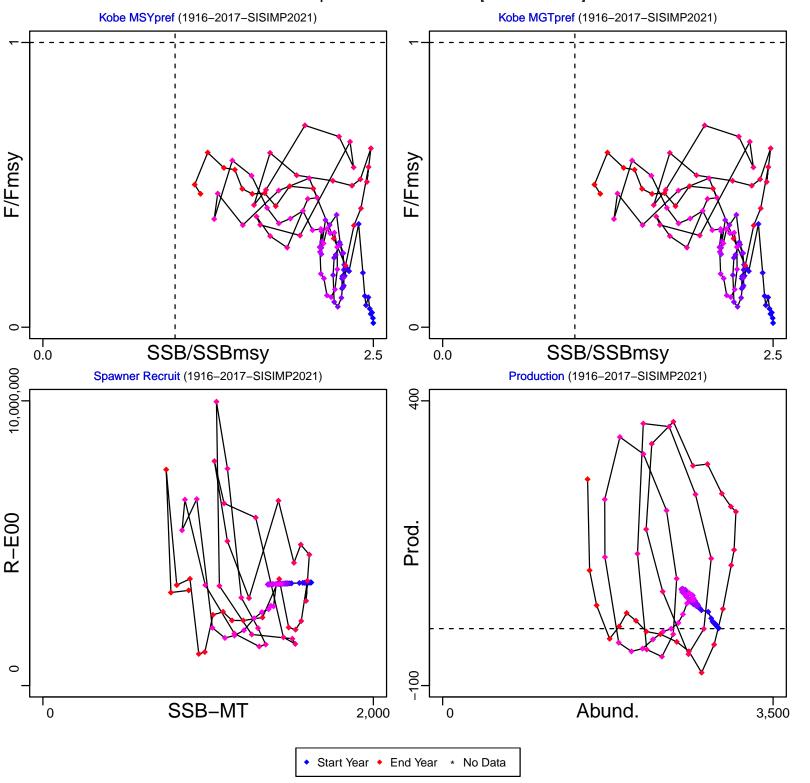
TB*	SSB*
TN *	F*
FD.	D 14 . W
ER*	Recruits*
■ Listed time series Ta	proof PPD —— Poc. Ect
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

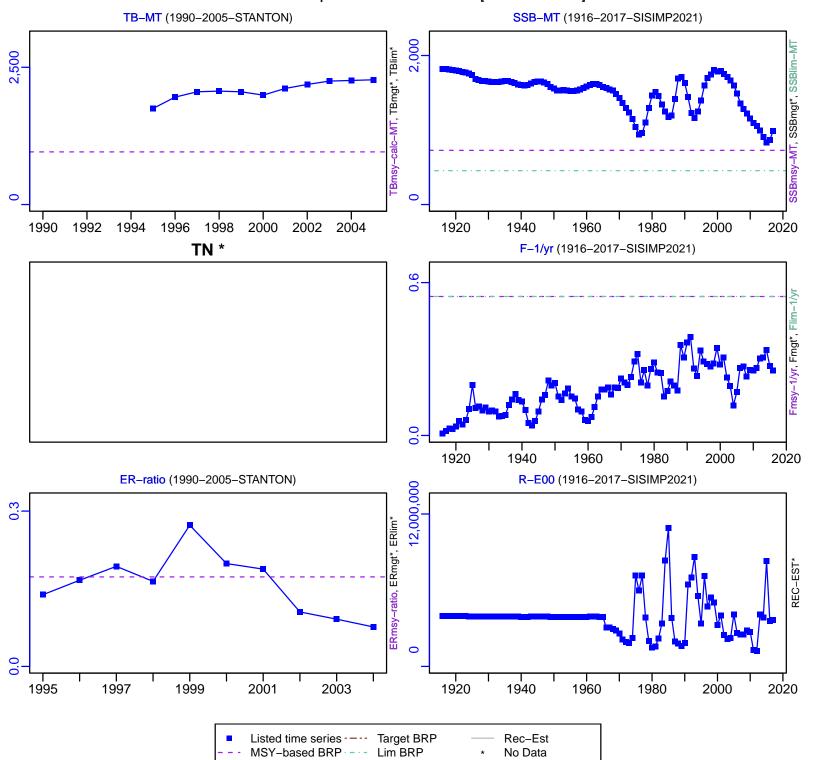


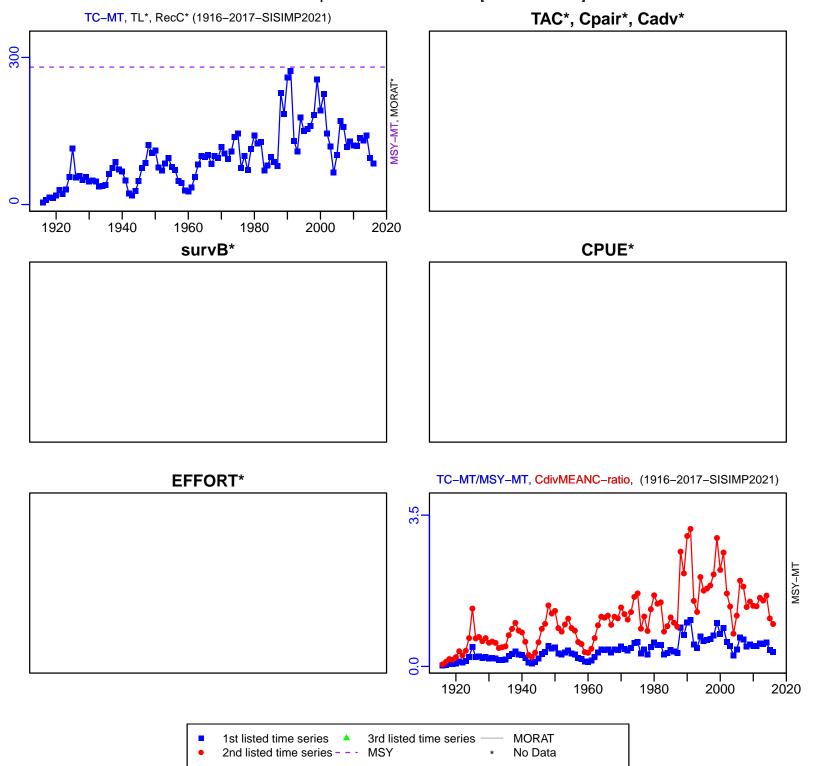
Metadata		
Scientific Name	Scorpaena guttata	
Current Assess ID	SWFSC-CALSCORPSCAL-1916-2017-SISIMP2021	
Area	Southern California	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Southwest Fisheries Science Center	
Asmts in RAM	2015, 2017, 2005	

Reference Points				
Туре	ID	Asmt Year	r Value	
TBmsy	TBmsy-calc-MT	2005	789	
SSBmsy	SSBmsy-MT	2017	650	
Fmsy	Fmsy-1/yr	2017	0.5	
ERmsy	ERmsy-ratio	2005	0.161	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	2007	
SSB0	SSB0-MT	2005	1024	
MSY	MSY-MT	2017	247	
М	M-1/yr	2005	0.25	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2017	406	
Flim	Flim-1/yr	2017	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	1915	-	-
SSB	SSB-MT	2017	882	-	-
TN	-	-	-	-	-
R	R-E00	2017	3,343,810	-	0
F	F-1/yr	2017	0.234	-	-
ER	ER-calc-ratio	2017	0.043	-	-
TC	TC-MT	2017	74		
TL	TL-MT	2005	81		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	2.371		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.358		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.469		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.441		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







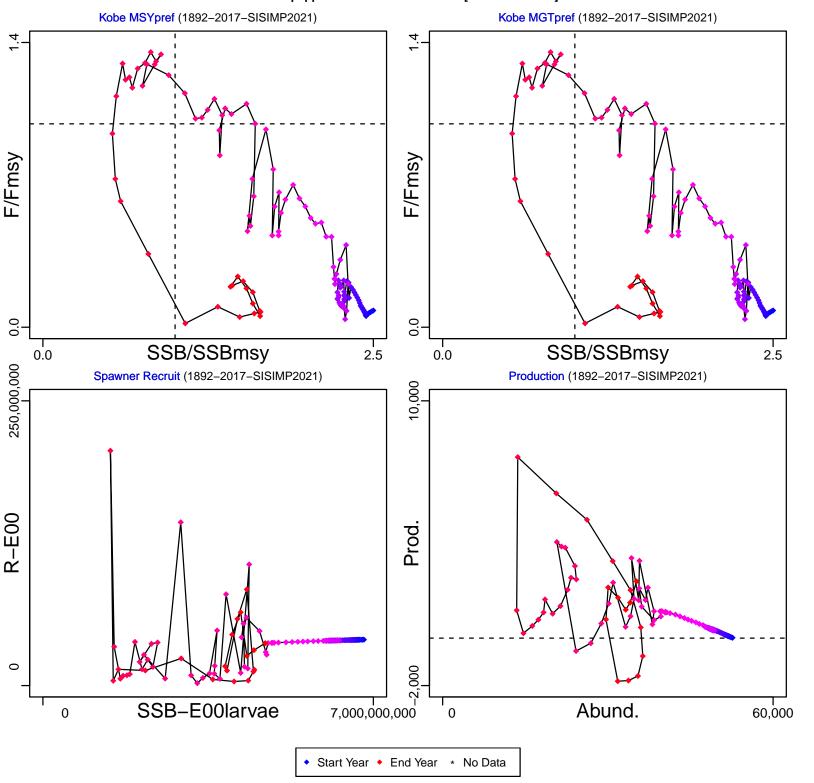
Chilipepper Southern Pacific Coast [CHILISPCOAST]

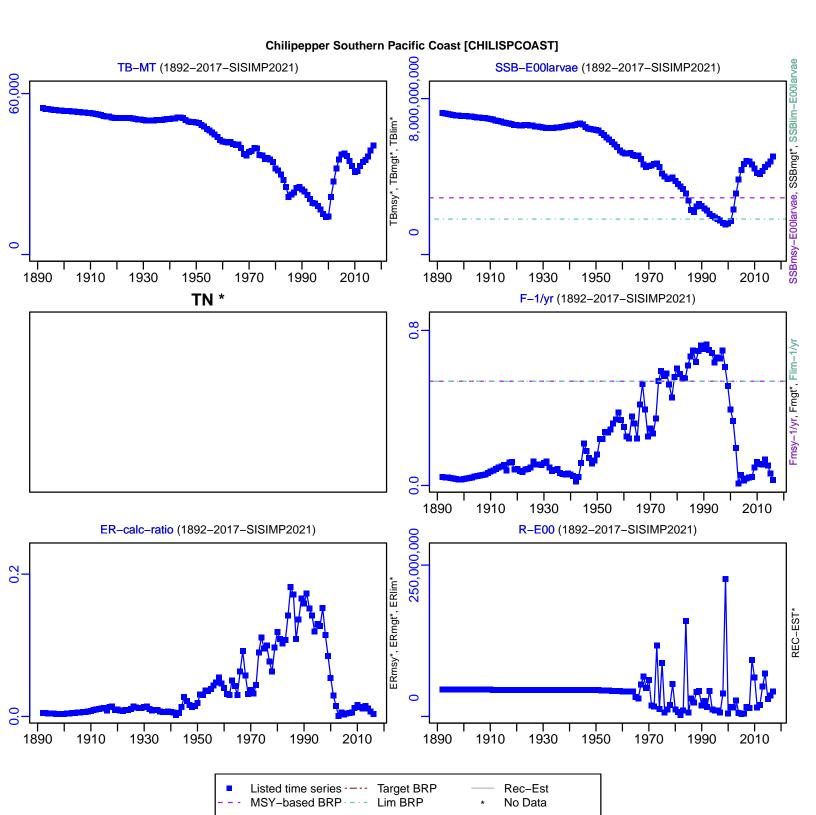
Metadata		
Scientific Name	Sebastes goodei	
Current Assess ID	SWFSC-CHILISPCOAST-1892-2017-SISIMP2021	
Area	Southern Pacific Coast	
Management Authority National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center	
Asmts in RAM	2007, 2015, 2017	

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	-	-	-	

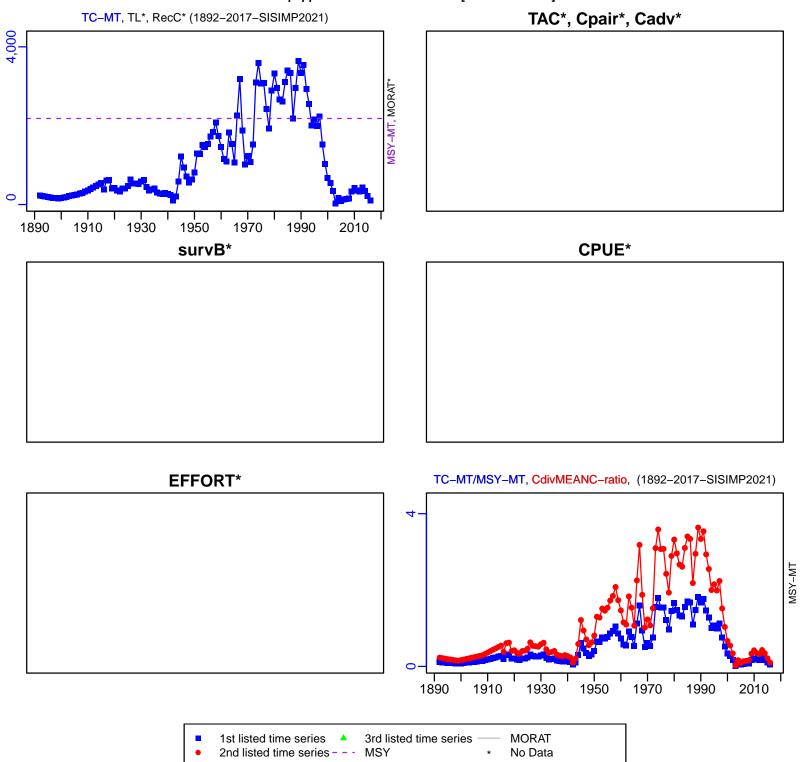
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	39,163	-	-
SSB	SSB-E00larvae	2017	4.71×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2017	37,210,400	-	0
F	F-1/yr	2017	0.027	-	-
ER	ER-calc-ratio	2017	0.003	-	-
TC	TC-MT	2017	97		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.739		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae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



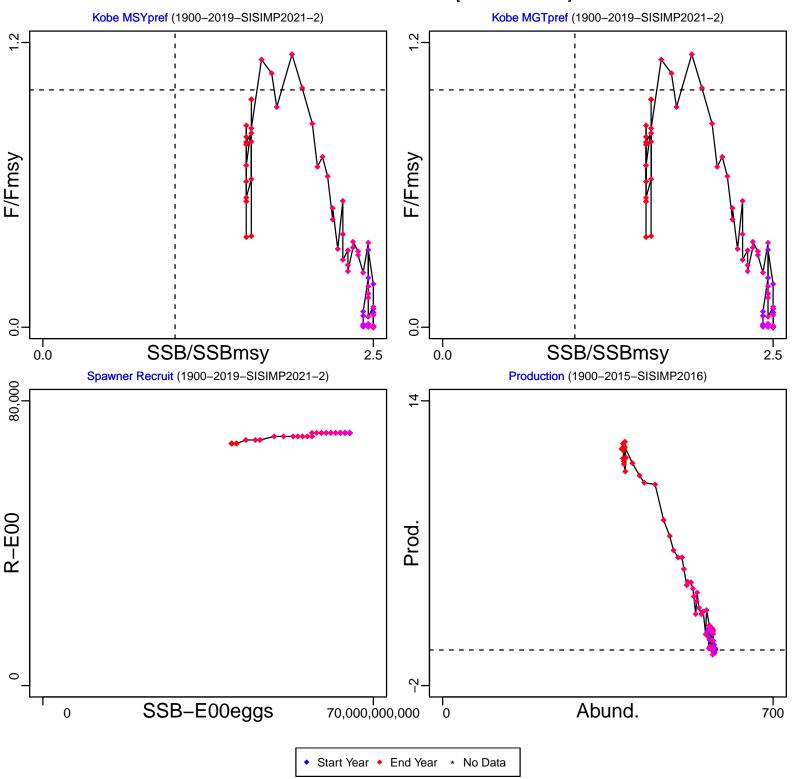
China rockfish Central Pacific Coast [CHROCKCPCOAST]

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

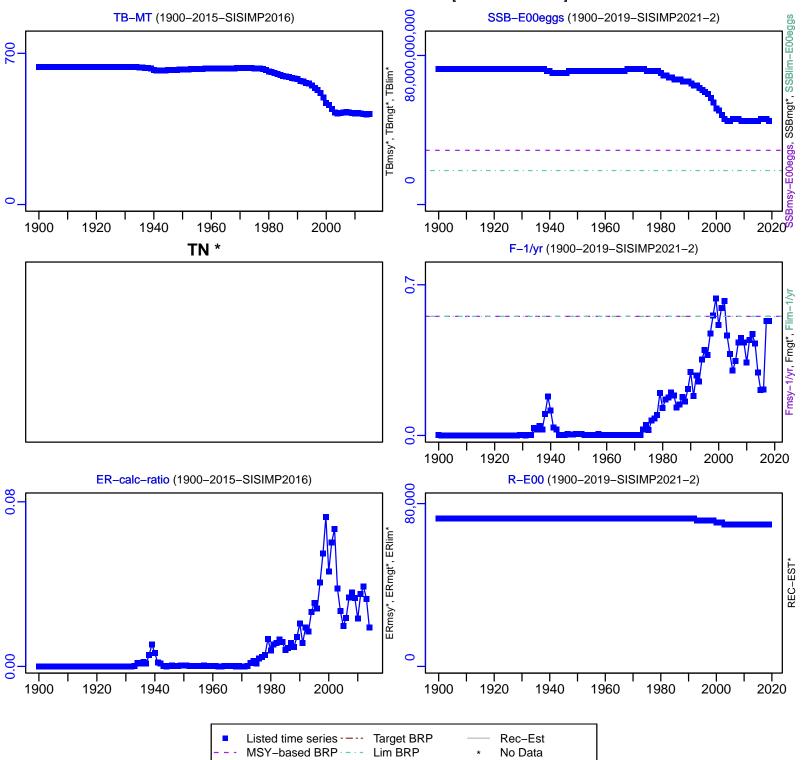
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00eggs	2019	2.6×10^{10}
Fmsy	Fmsy-1/yr	2019	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	16
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2019	1.63×10^{10}
Flim	Flim-1/yr	2019	0.5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

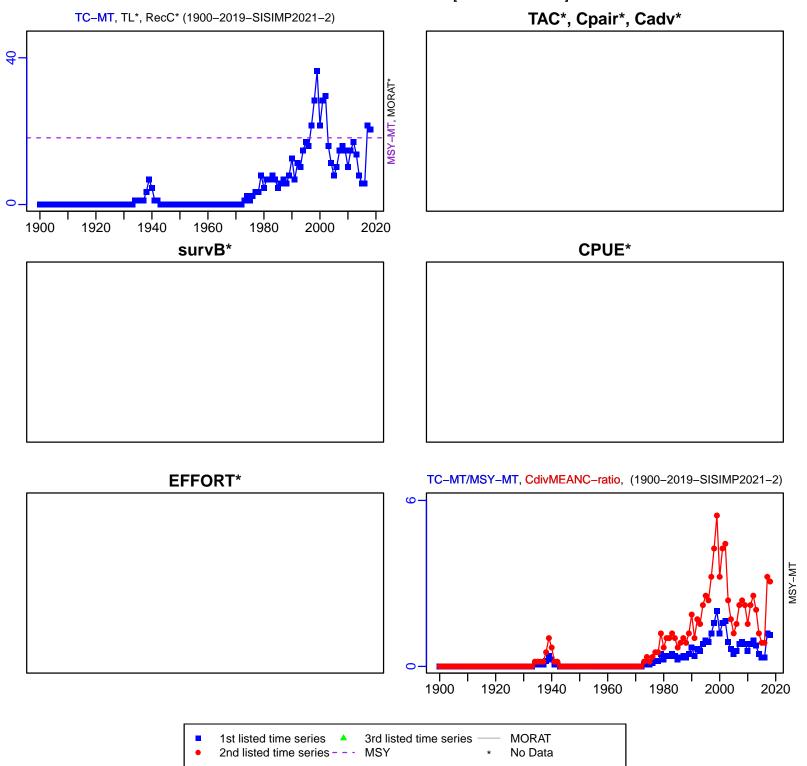
China rockfish Central Pacific Coast [CHROCKCPCOAST]



China rockfish Central Pacific Coast [CHROCKCPCOAST]



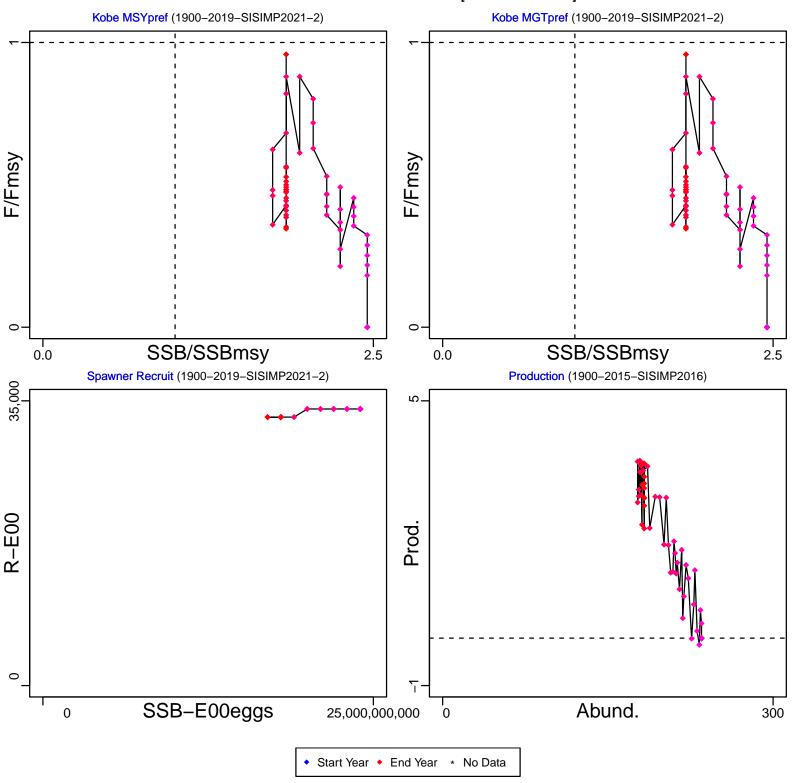
China rockfish Central Pacific Coast [CHROCKCPCOAST]

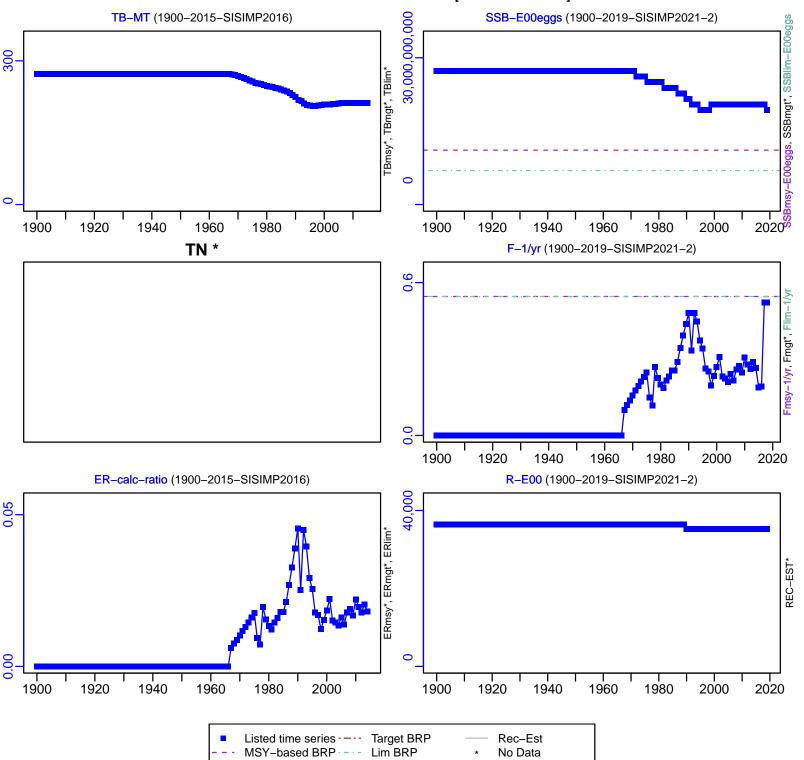


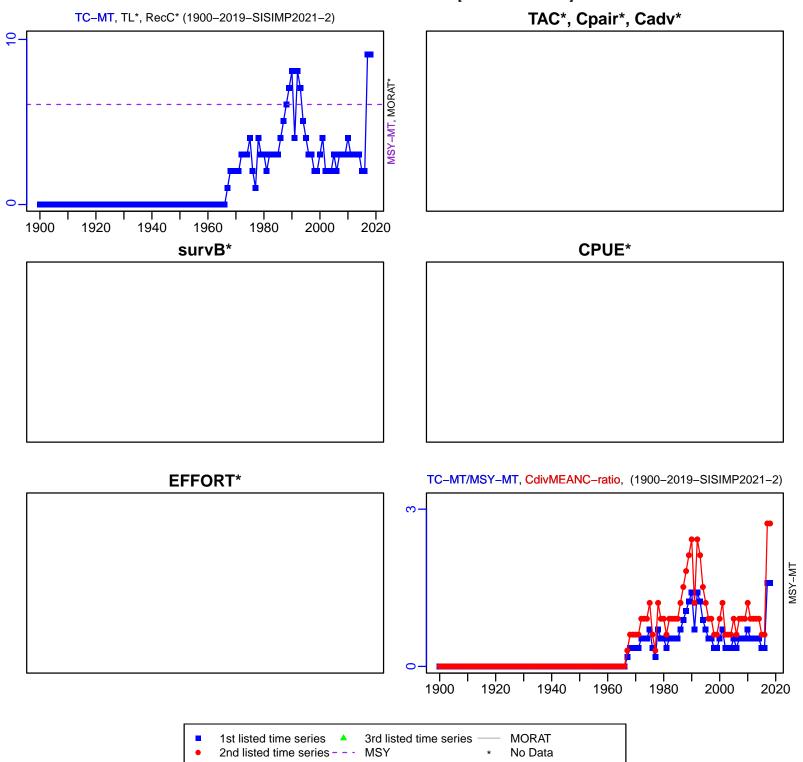
Metadata			
Scientific Name	Sebastes nebulosus		
Current Assess ID	SWFSC-CHROCKNPCOAST-1900-2019-SISIMP2021-2		
Area Northern Pacific Coast			
Management Authority National Marine Fisheries Service, US national manageme			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2015, 2019		

	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	
М	-	-	-	
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	-	-	-		



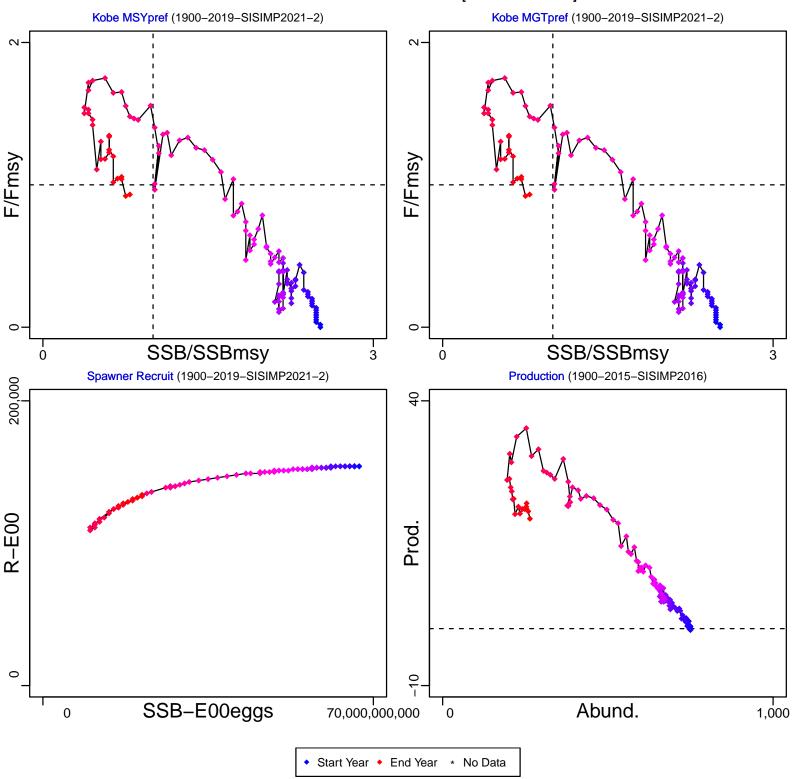


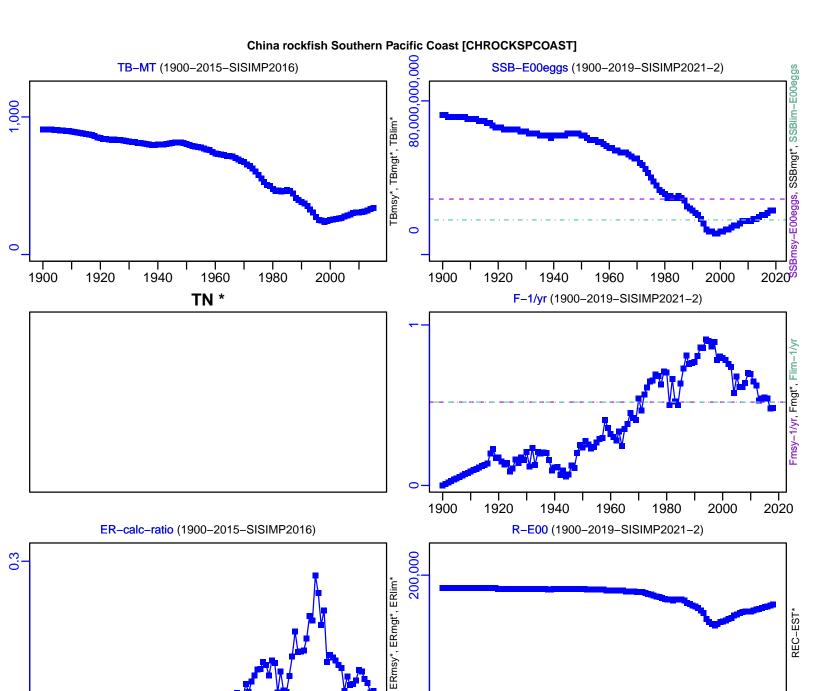


Metadata			
Scientific Name	Sebastes nebulosus		
Current Assess ID NWFSC-CHROCKSPCOAST-1900-2019-SISIMP2021-2			
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2015, 2019		

	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	-	-	-		

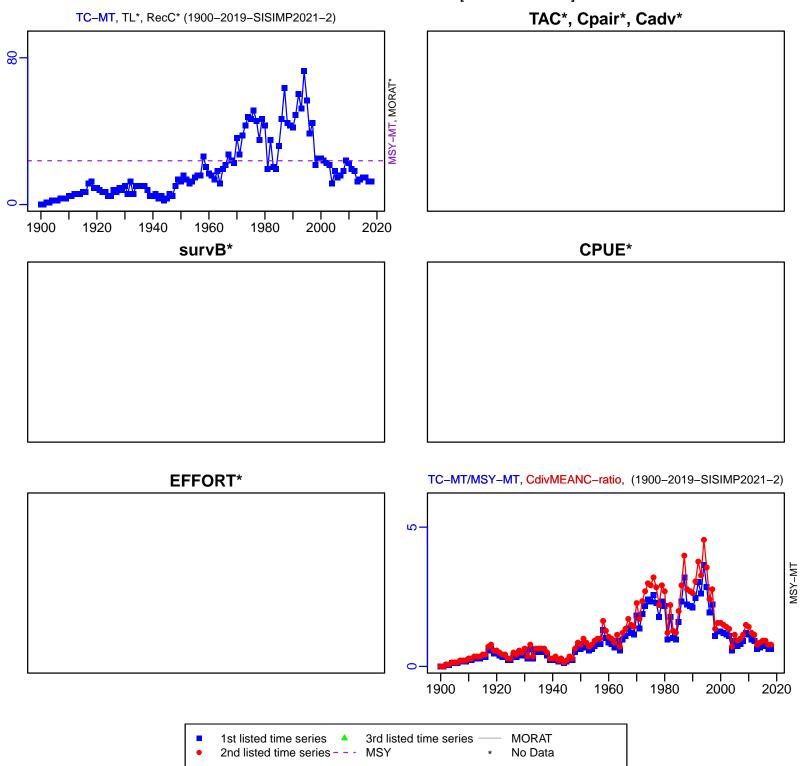
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	280	-	5+
SSB	SSB-E00eggs	2019	2.1×10^{10}	-	-
TN	-	-	-	-	-
R	R-E00	2019	134,000	-	0
F	F-1/yr	2019	0.466	-	-
ER	ER-calc-ratio	2015	0.046	-	-
TC	TC-MT	2019	11		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2019	0.789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







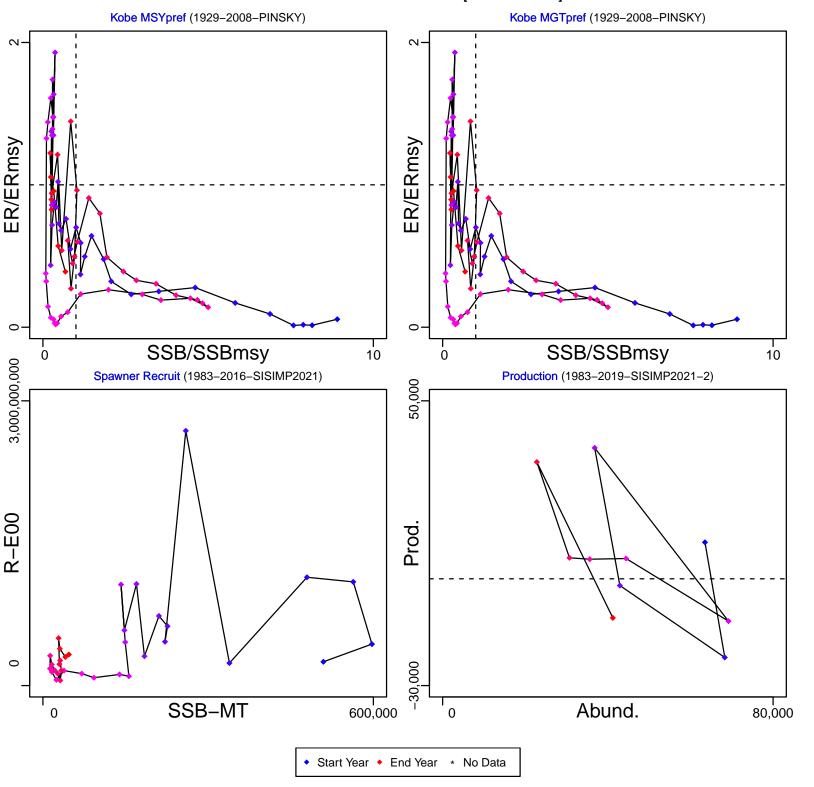
Rec-Est No Data Listed time series ---- Target BRP MSY-based BRP ---- Lim BRP

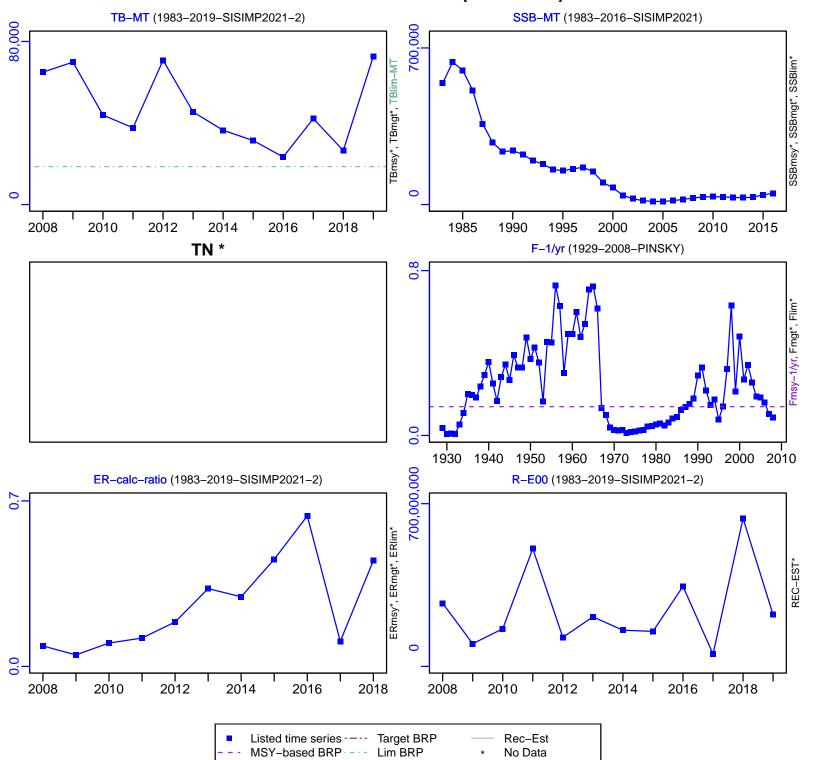


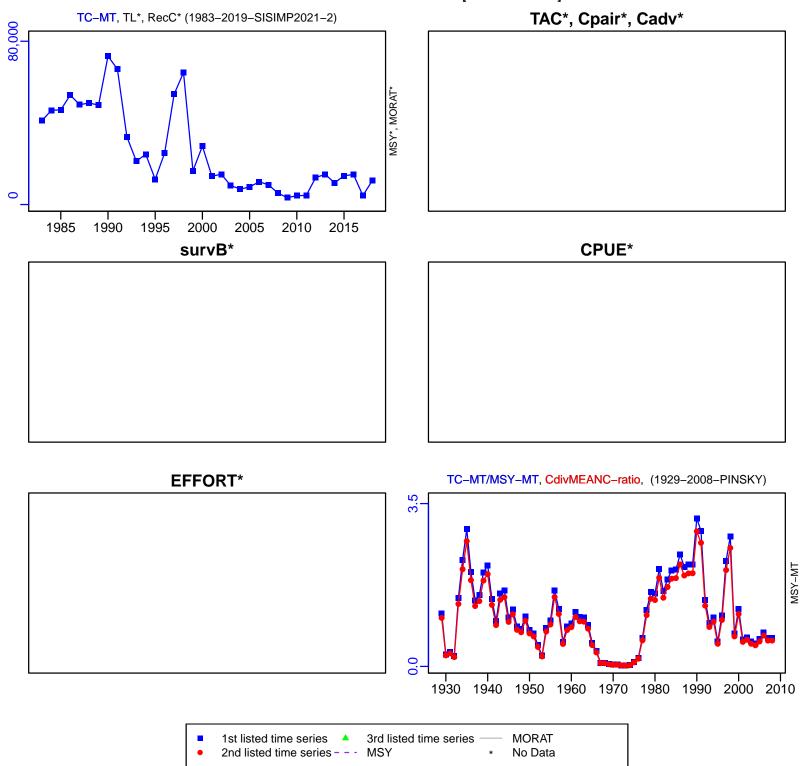
Metadata			
Scientific Name	Scomber japonicus		
Current Assess ID SWFSC-CMACKPCOAST-1983-2019-SISIMP2021-2			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2008, 2015, 2016, 2019		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2008	125,285		
SSBmsy	SSBmsy-MT	2008	122,357		
Fmsy	Fmsy-1/yr	2008	0.138		
ERmsy	ERmsy-ratio	2008	0.184		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2008	182,791		
MSY	MSY-MT	2008	23,048		
М	M-1/yr	2008	0.5		
TBlim	TBlim-MT	2019	18,200		
SSBlim	SSBlim-MT	2008	29,420		
Flim	-	-	-		
ERlim		-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	71,100	-	-
SSB	SSB-MT	2016	47,178	-	-
TN	-	-	-	-	-
R	R-E00	2019	2.17×10^{8}	-	0
F	F-1/yr	2008	0.087	-	-
ER	ER-calc-ratio	2019	0.444	-	-
TC	TC-MT	2019	11,500		
TL	TL-MT	2008	13,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.68		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.633		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





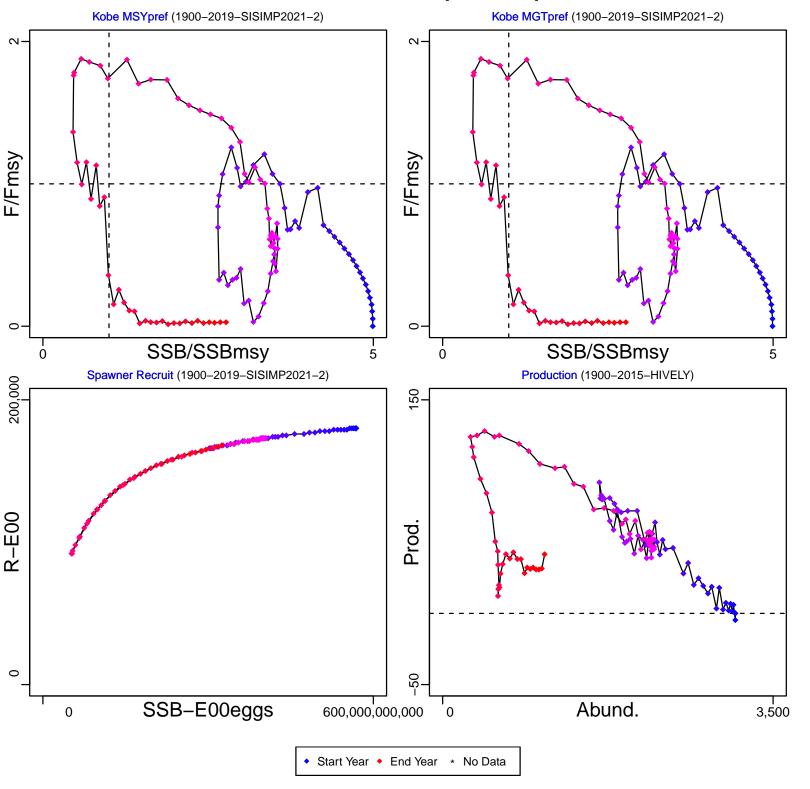


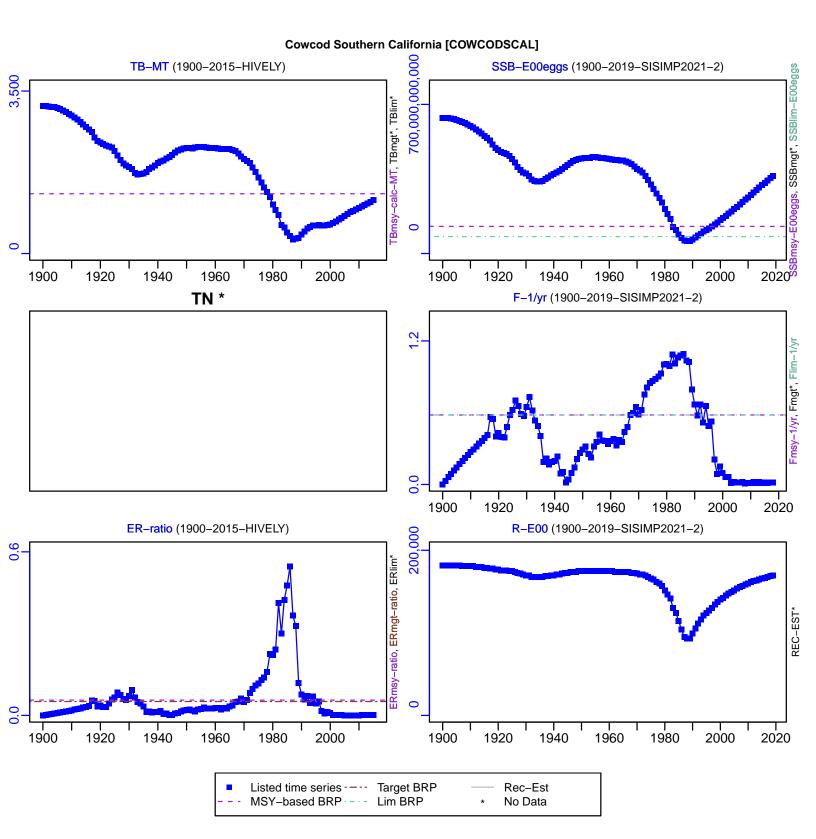
Cowcod Southern California [COWCODSCAL]

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 managem			
Assessor Pacific Fishery Management Council			
Asmts in RAM	2015, 2019, 2012		

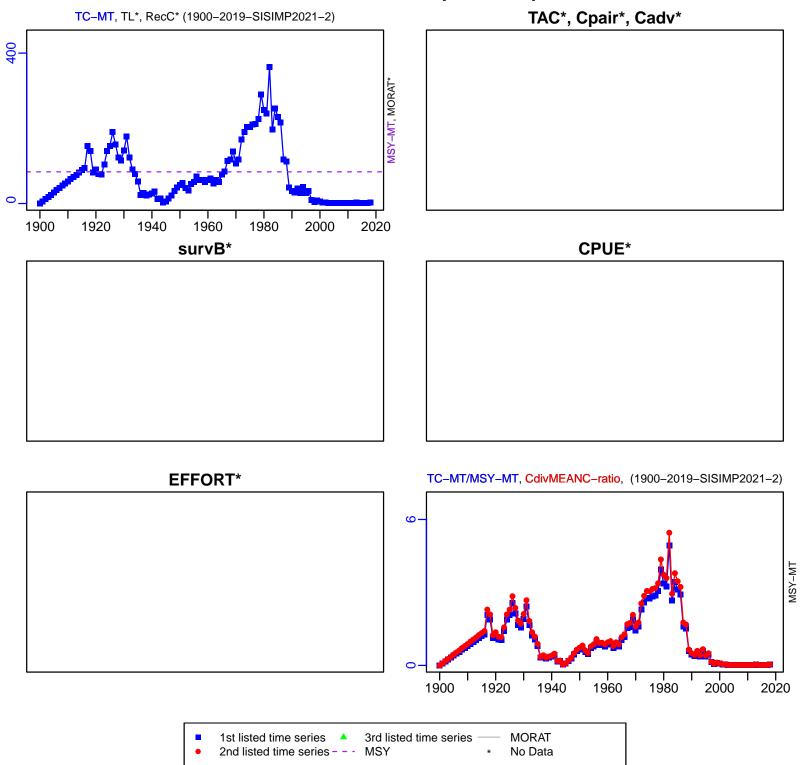
	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2015	1255	
SSBmsy	SSBmsy-E00eggs	2019	1.14×10^{11}	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	ERmsy-ratio	2015	0.055	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2015	620	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2015	0.05	
TB0	TB0-MT	2015	3099	
SSB0	SSB0-MT	2015	1549	
MSY	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	1	
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.028	1	
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.018		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.902		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





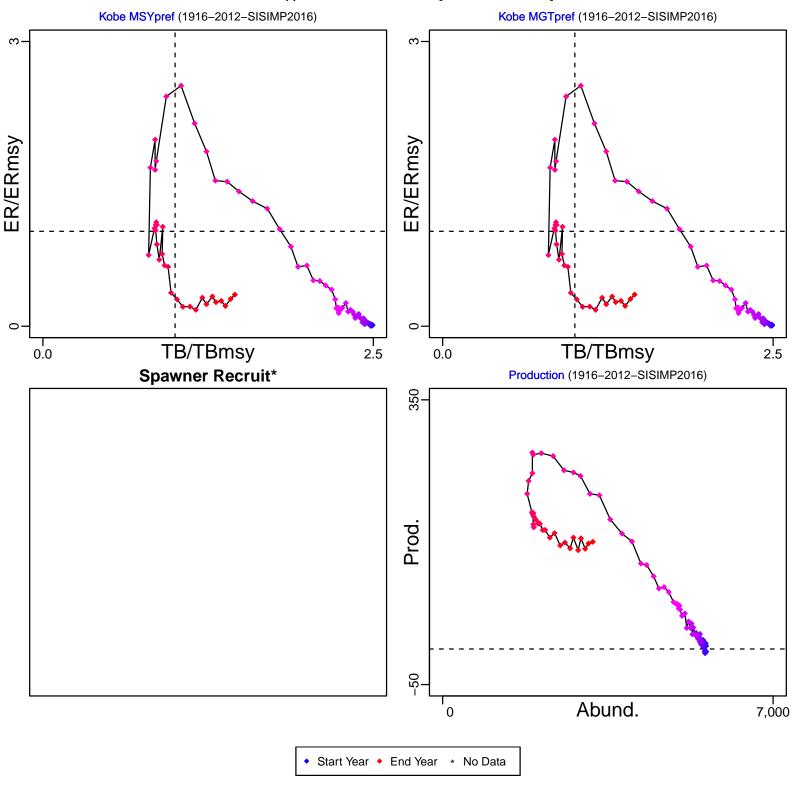
Cowcod Southern California [COWCODSCAL]

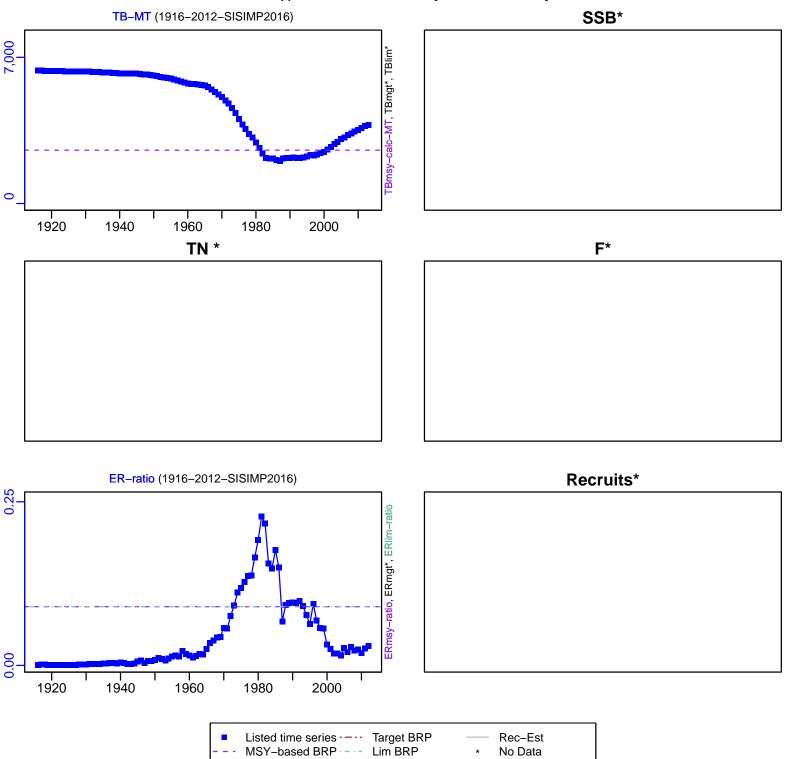


Metadata			
Scientific Name	Sebastes caurinus		
Current Assess ID SWFSC-CPRROCKPCOAST-1916-2012-SISIMP2016			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2012		

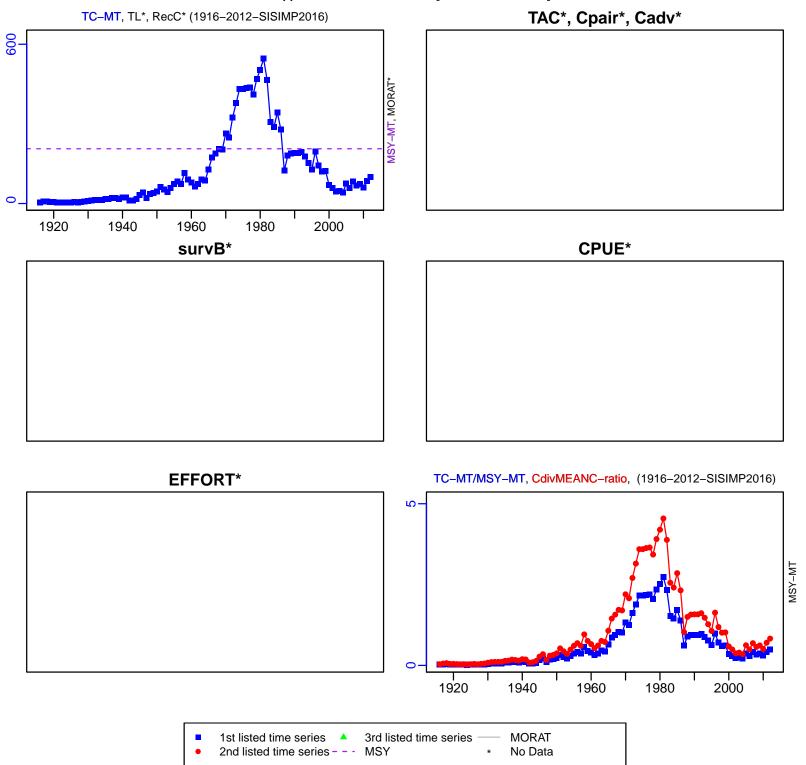
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	2238	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.088	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	197	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2012	0.088	

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	-	-	-		





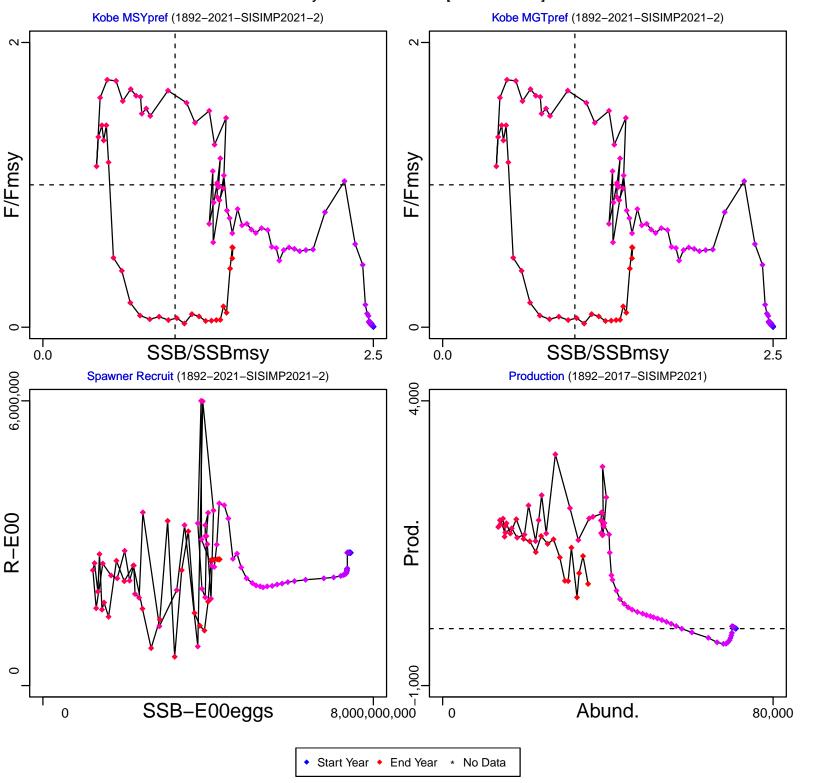
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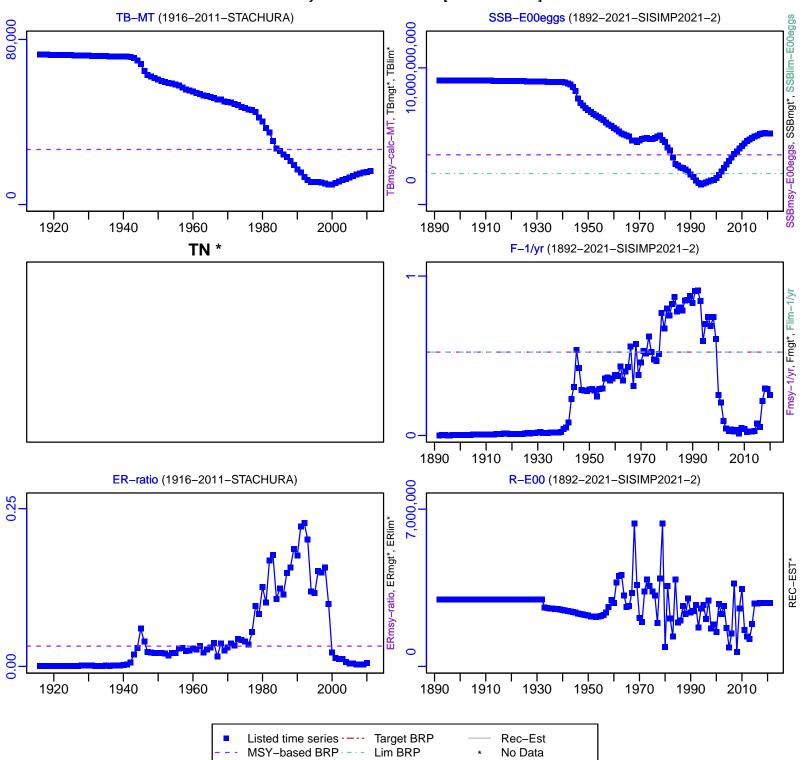


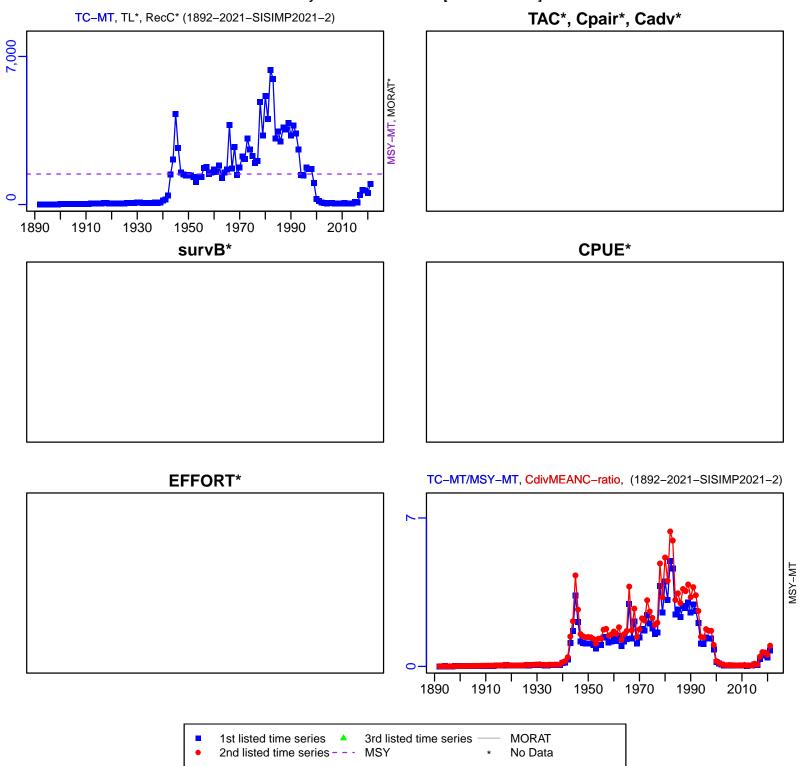
Metadata			
Scientific Name	Sebastes pinniger		
Current Assess ID NWFSC-CROCKPCOAST-1892-2021-SISIMP2021-2			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2017, 2019, 2021, 2011		

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	-	-	-			







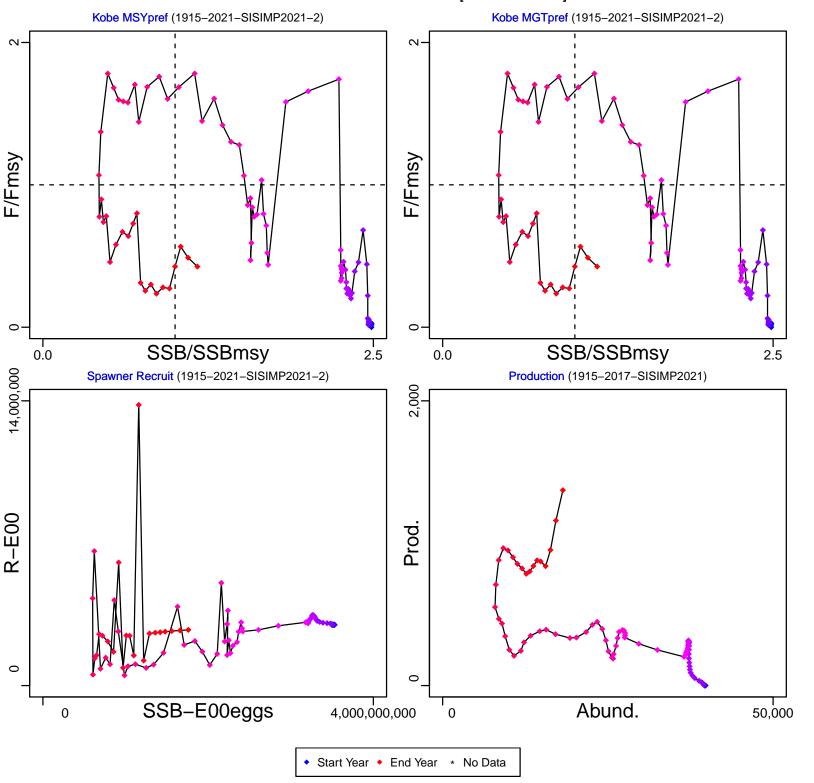
Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

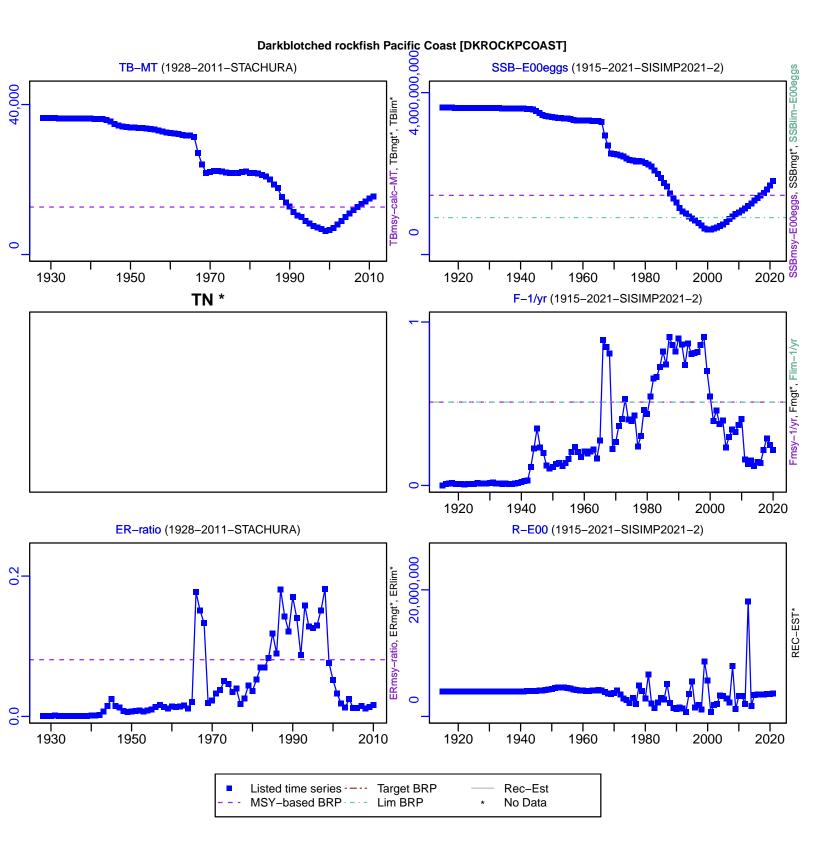
Metadata			
Scientific Name	Sebastes crameri		
Current Assess ID NWFSC-DKROCKPCOAST-1915-2021-SISIMP2021-2			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2017, 2019, 2021, 2011		

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	-	-	-

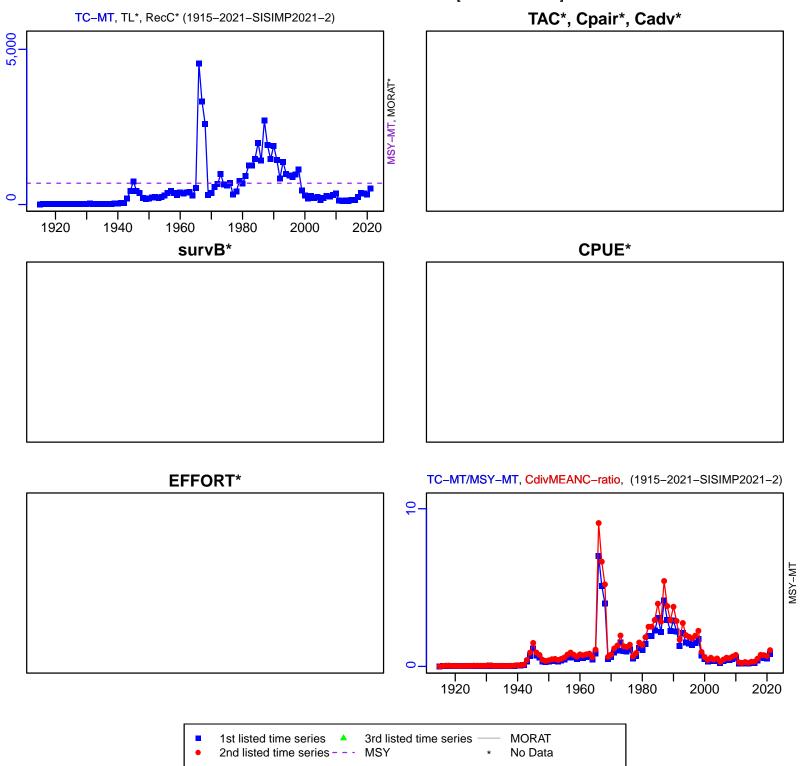
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	20,713	-	-
SSB	SSB-E00eggs	2021	1.76×10^{9}	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,740,000	-	0
F	F-1/yr	2021	0.213	-	-
ER	ER-calc-ratio	2017	0.007	-	-
TC	TC-MT	2021	479		
TL	TL-MT	2011	183		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.221		
SSB/SSBmsy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

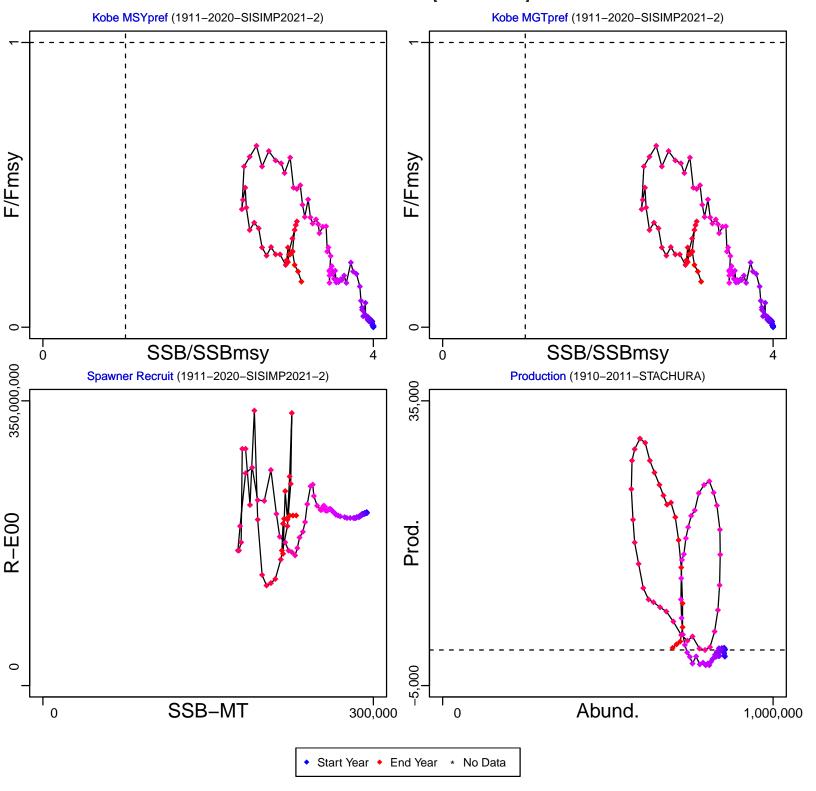


Dover sole Pacific Coast [DSOLEPCOAST]

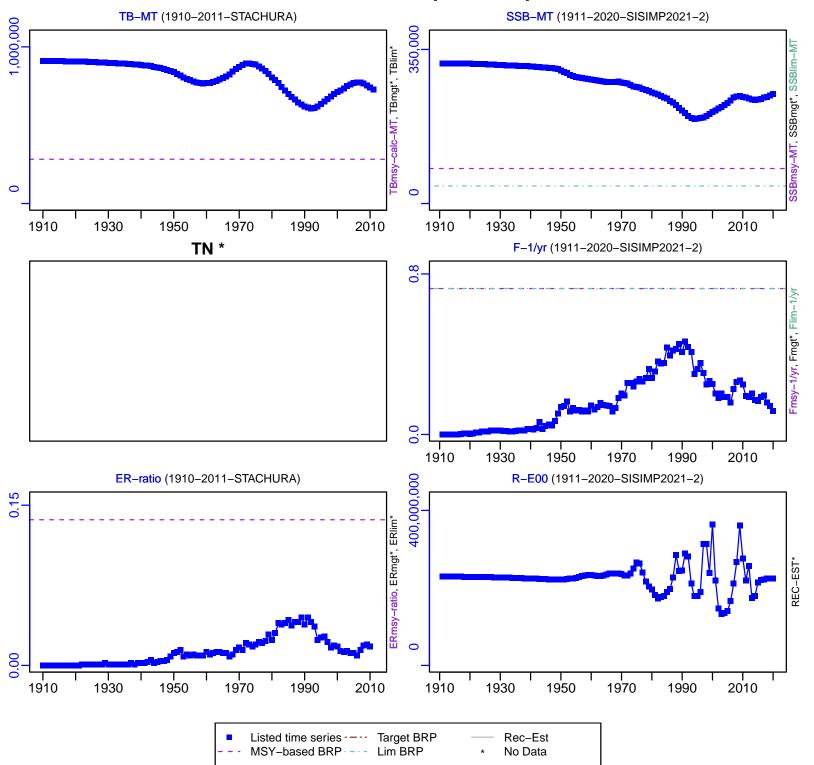
Metadata			
Scientific Name	Microstomus pacificus		
Current Assess ID SWFSC-DSOLEPCOAST-1911-2020-SISIMP2021-2			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2011, 2019, 2020		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	265,321	
SSBmsy	SSBmsy-MT	2020	73,500	
Fmsy	Fmsy-1/yr	2020	0.7	
ERmsy	ERmsy-ratio	2011	0.131	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	821,271	
SSB0	SSB0-MT	2011	469,866	
MSY	MSY-MT	2020	22,900	
М	M-1/yr	2011	0.101	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2020	36,800	
Flim	Flim-1/yr	2020	0.7	
ERlim	-	-	-	

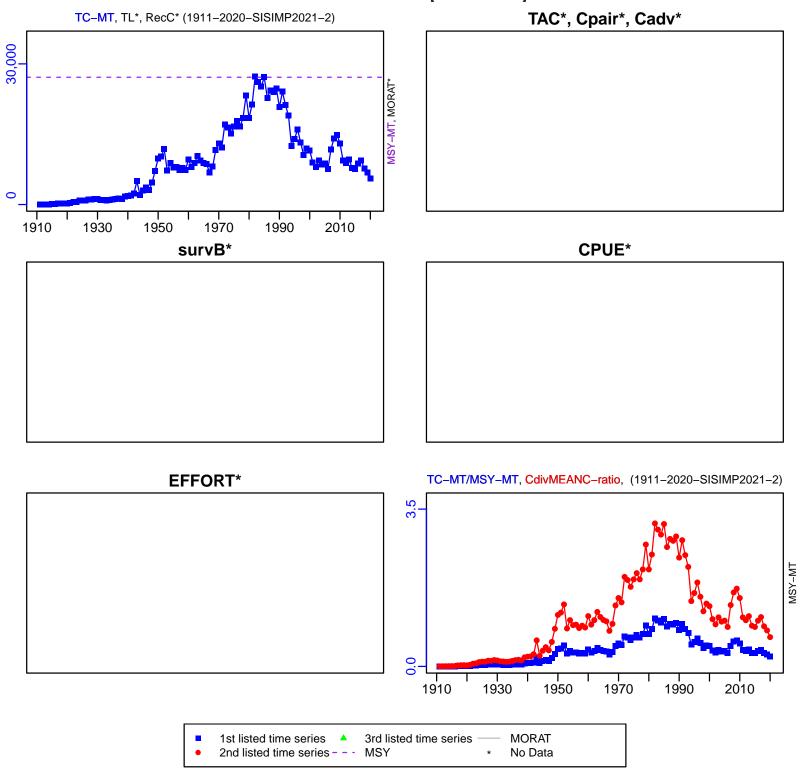
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	685,000	-	0+
SSB	SSB-MT	2020	230,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.09×10^{8}	-	0
F	F-1/yr	2020	0.112	-	-
ER	ER-ratio	2011	0.017	Both	5+
TC	TC-MT	2020	4710		
TL	TL-MT	2011	10,400		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	2.582		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	3.129		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.16		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Dover sole Pacific Coast [DSOLEPCOAST]



Dover sole Pacific Coast [DSOLEPCOAST]



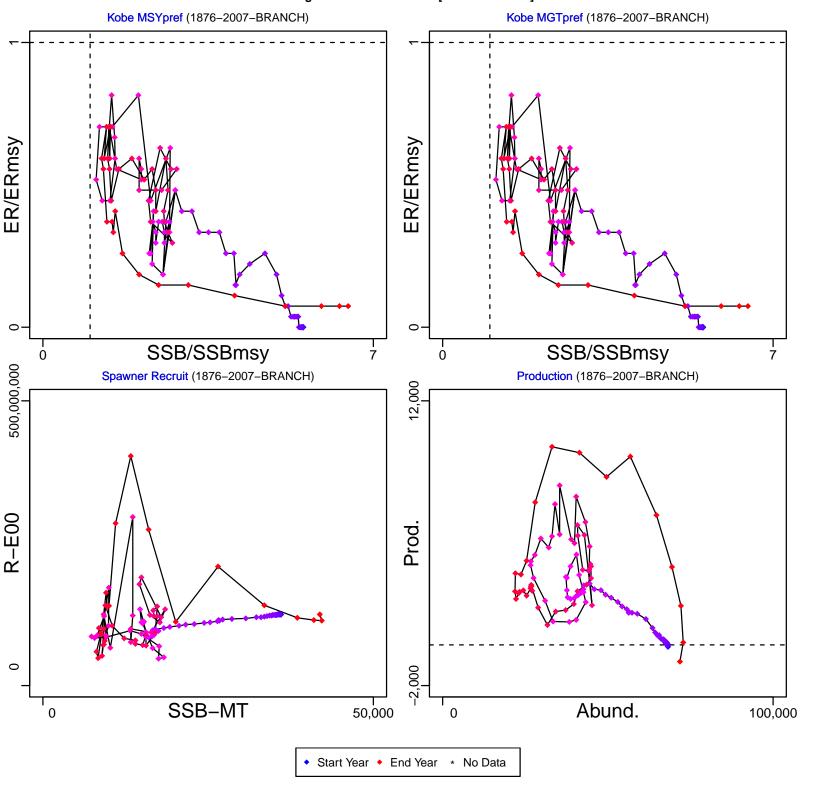
English sole Pacific Coast [ESOLEPCOAST]

Metadata				
Scientific Name	Parophrys vetulus			
Current Assess ID	NWFSC-ESOLEPCOAST-1876-2012-SISIMP2016			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2007, 2012			

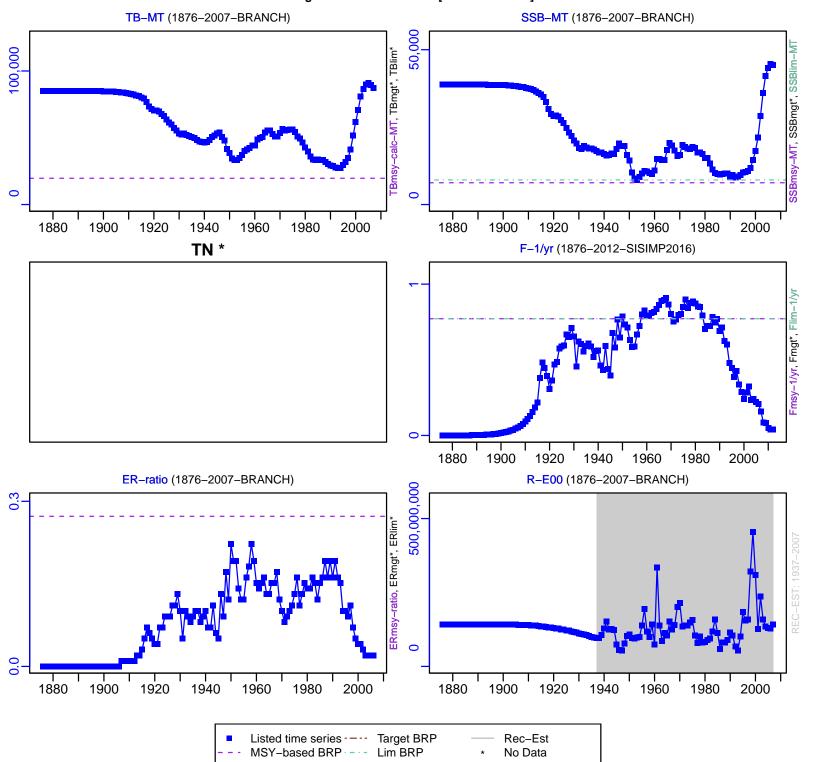
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2007	15,748			
SSBmsy	SSBmsy-MT	2007	6526			
Fmsy	Fmsy-1/yr	2012	0.7			
ERmsy	ERmsy-ratio	2007	0.27			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	SSB0-MT	2007	36,012			
MSY	MSY-MT	2012	3875			
M	-	-	-			
TBlim	-	-	-			
SSBlim	SSBlim-MT	2007	7364			
Flim	Flim-1/yr	2012	0.7			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2007	69,900	-	7.7+		
SSB	SSB-MT	2007	41,900	Females	3+		
TN	-	-	-	-	-		
R	R-E00	2007	1.25×10^{8}	-	0		
F	F-1/yr	2012	0.037	-	-		
ER	ER-ratio	2007	0.02	-	-		
TC	TC-MT	2007	1080				
TL	TL-MT	2007	886				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	4.439				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	6.42				
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.053				
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.074				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

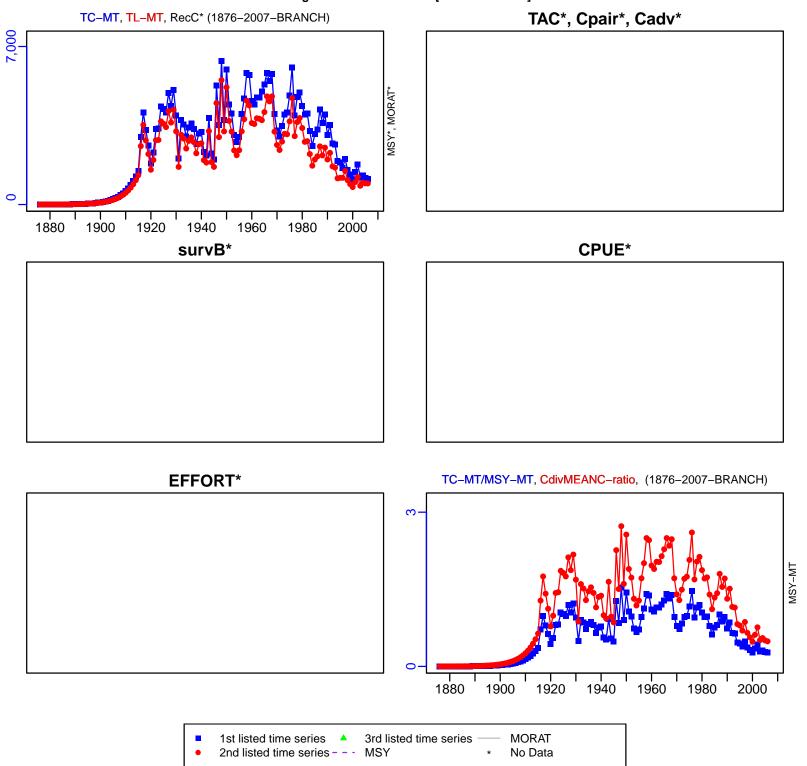
English sole Pacific Coast [ESOLEPCOAST]



English sole Pacific Coast [ESOLEPCOAST]



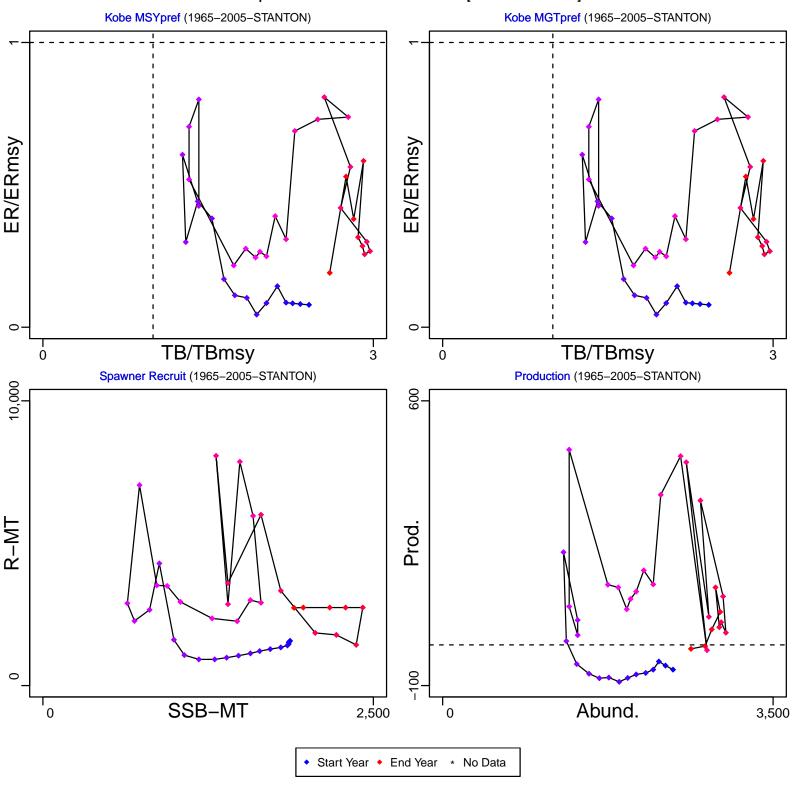
English sole Pacific Coast [ESOLEPCOAST]

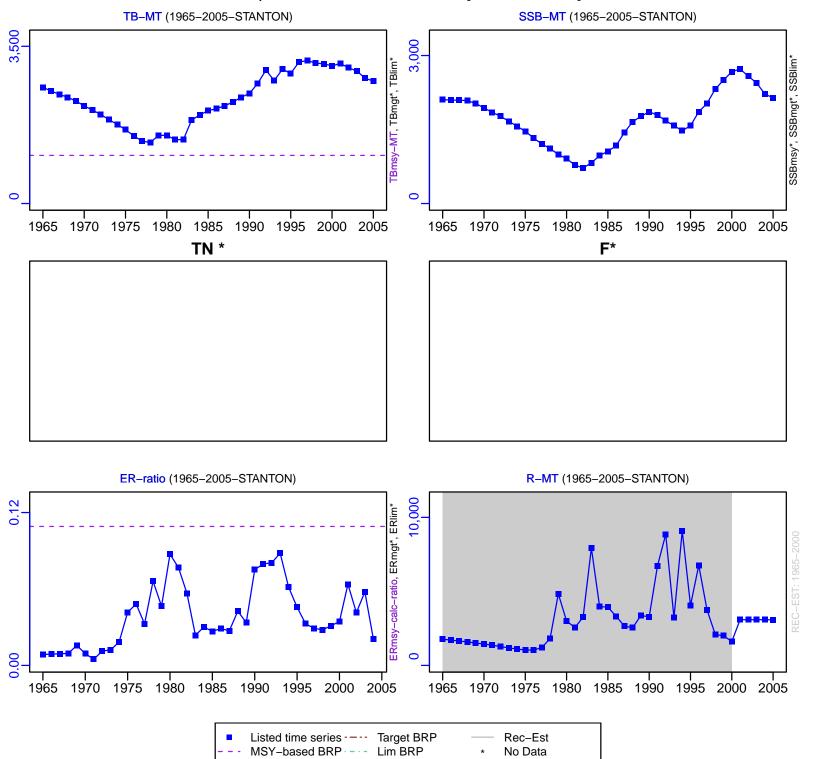


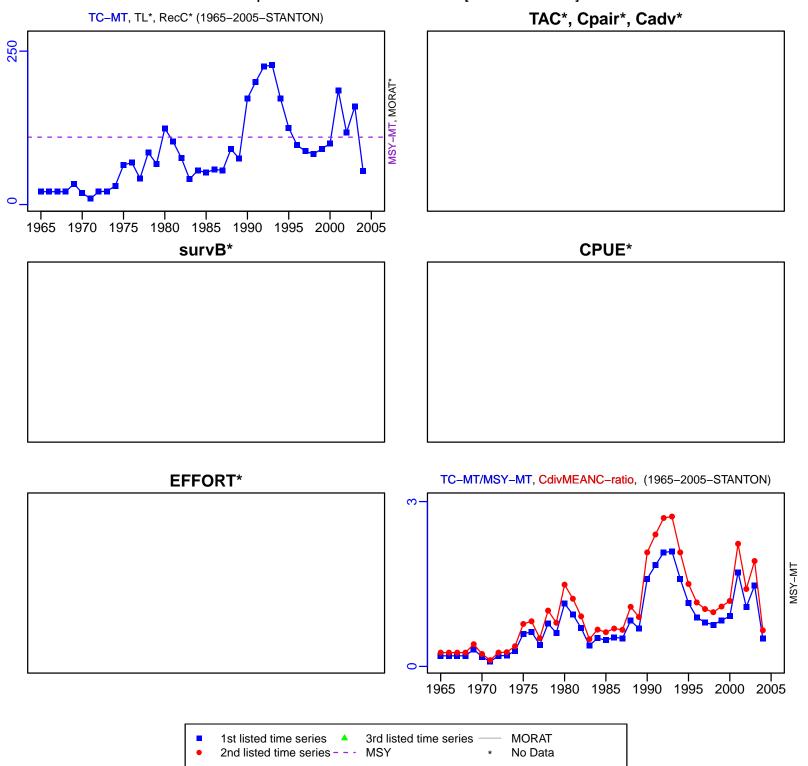
Metadata			
Scientific Name	Sebastes carnatus		
Current Assess ID	SWFSC-GOPHERSPCOAST-1965-2005-STANTON		
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

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	
М	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	-	-	-		







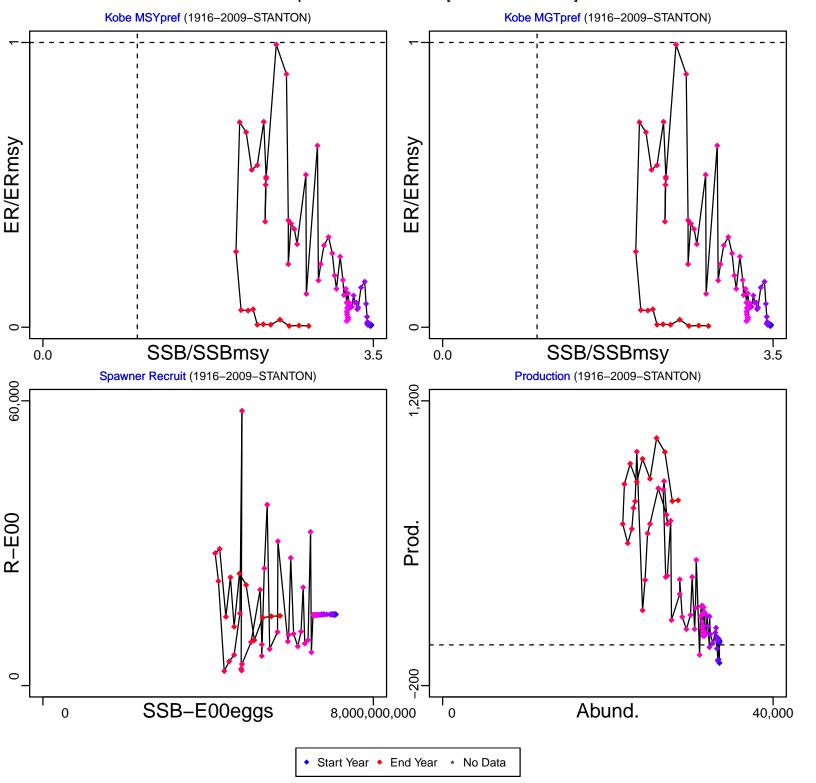
Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

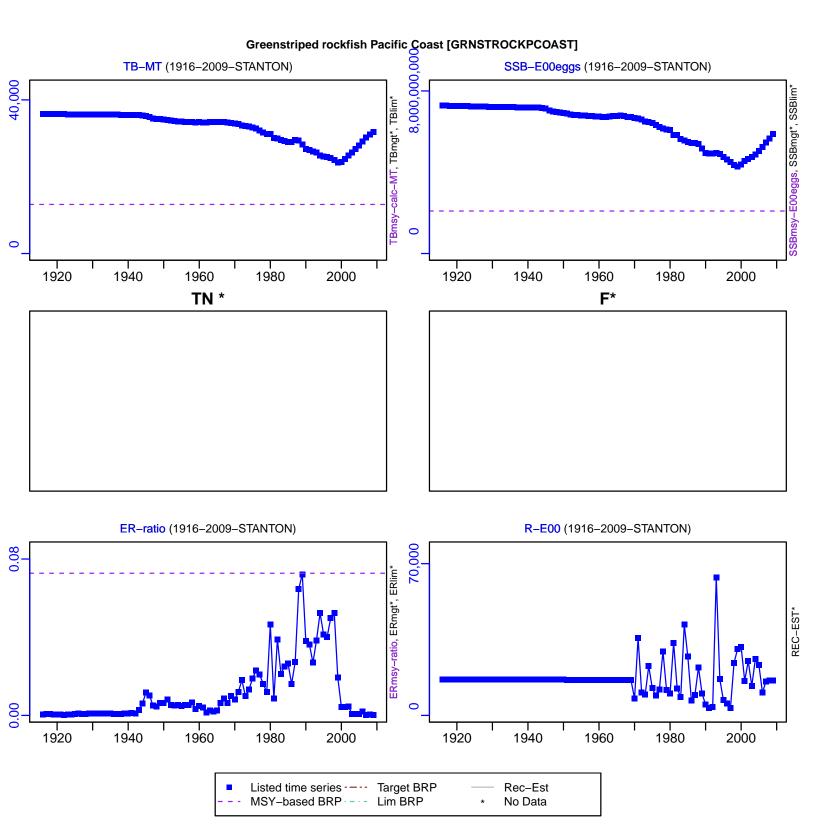
Metadata			
Scientific Name	Sebastes elongatus		
Current Assess ID	PFMC-GRNSTROCKPCOAST-1916-2009-STANTON		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Pacific Fishery Management Council		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	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	
M	M-1/yr	2009	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

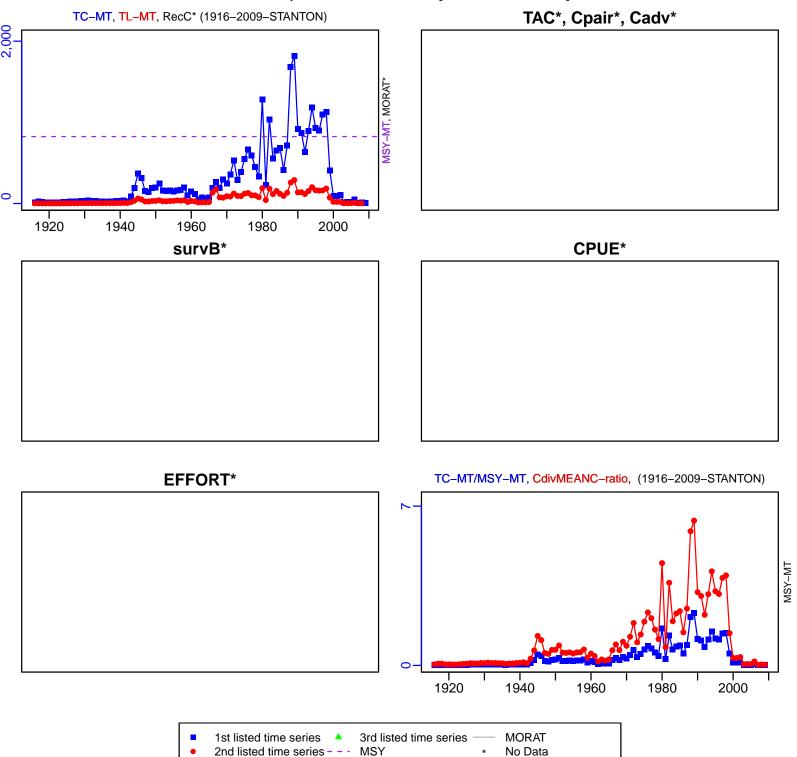
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	29,200	-	2+
SSB	SSB-E00eggs	2009	5.74×10^{9}	Females	-
TN	-	-	-	-	-
R	R-E00	2009	14,700	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	9		
TL	TL-MT	2009	3.39		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.48		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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



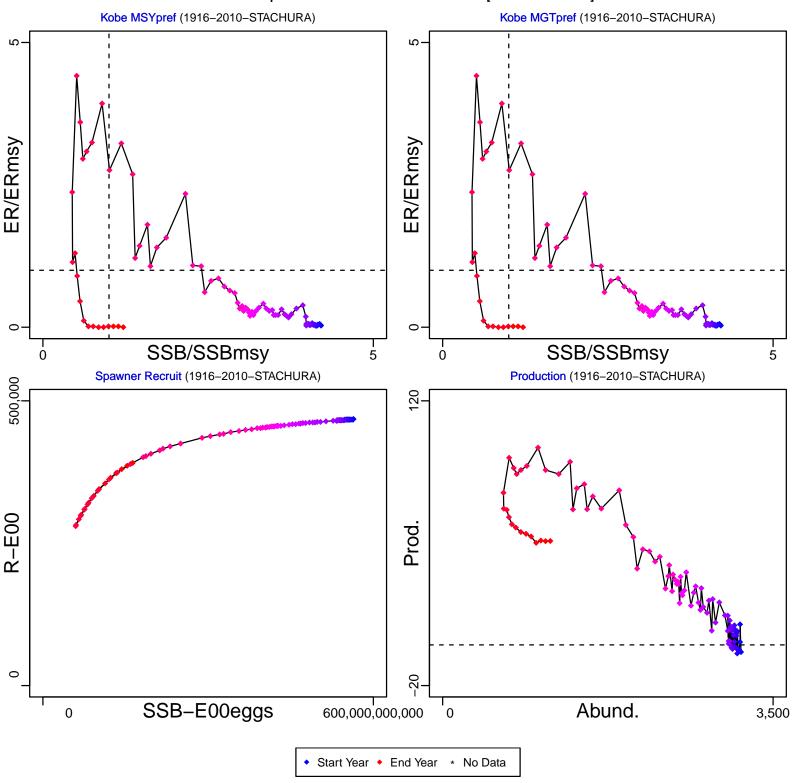
Greenspotted rockfish Northern Pacific Coast [GRSPROCKNCAL]

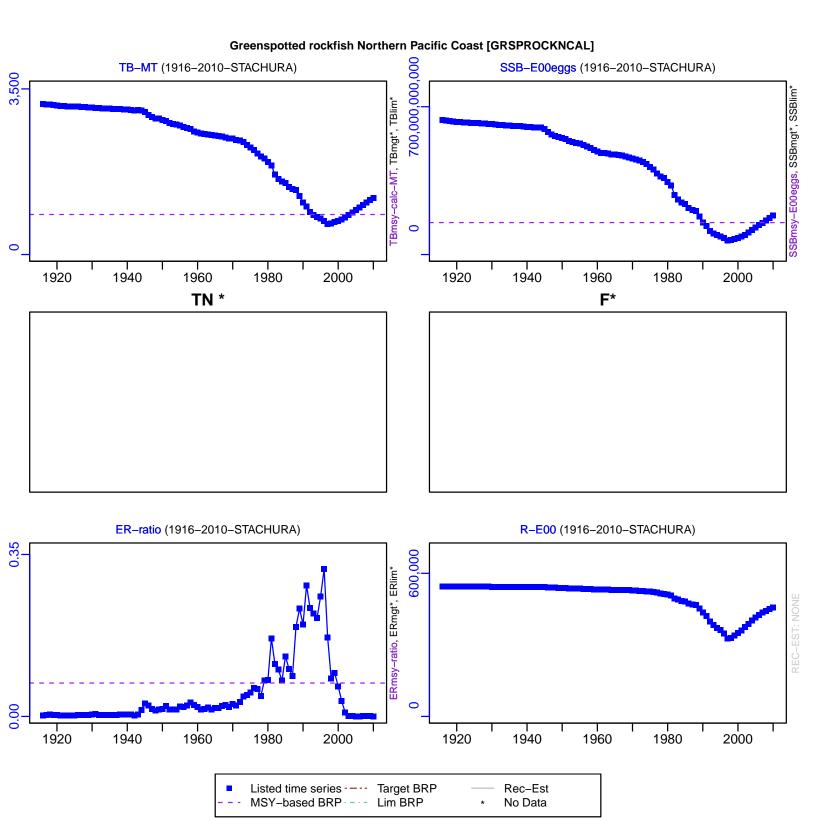
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID SWFSC-GRSPROCKNCAL-1916-2010-STACHURA			
Area Northern Pacific Coast			
Management Authority National Marine Fisheries Service, US national managem			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2010		

	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		
M	M-1/yr	2010	0.07		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

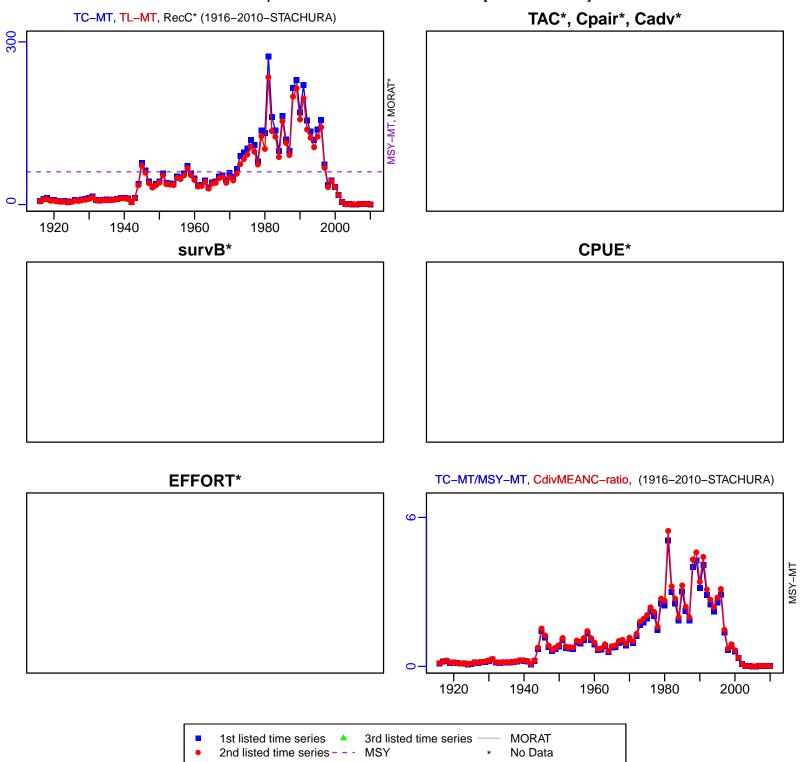
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1190	-	0+
SSB	SSB-E00eggs	2010	1.63×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	391,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	0.4		
TL	TL-MT	2010	0.37		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.417		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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



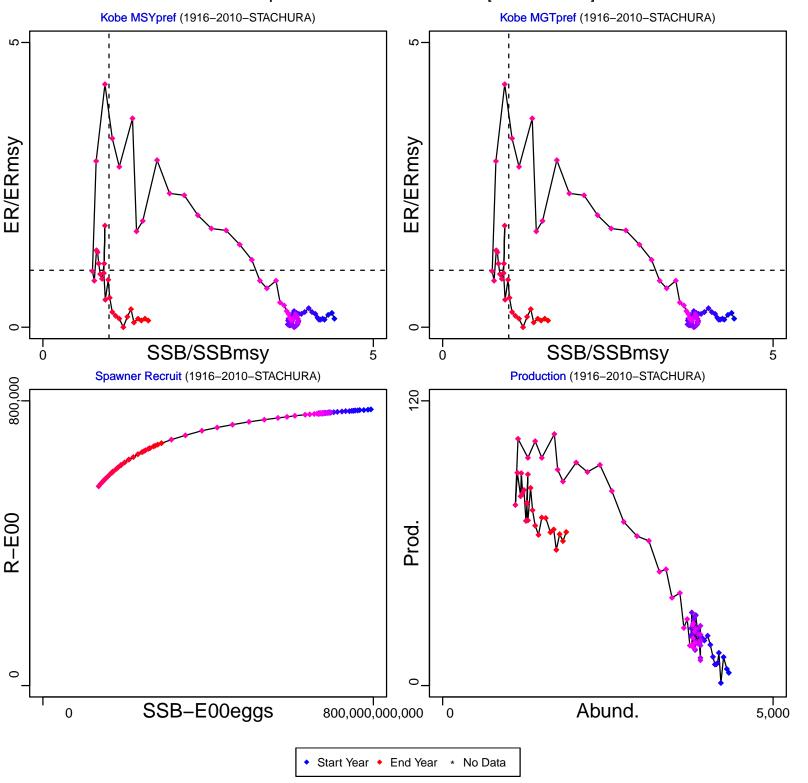
Greenspotted rockfish Southern Pacific Coast [GRSPROCKSCAL]

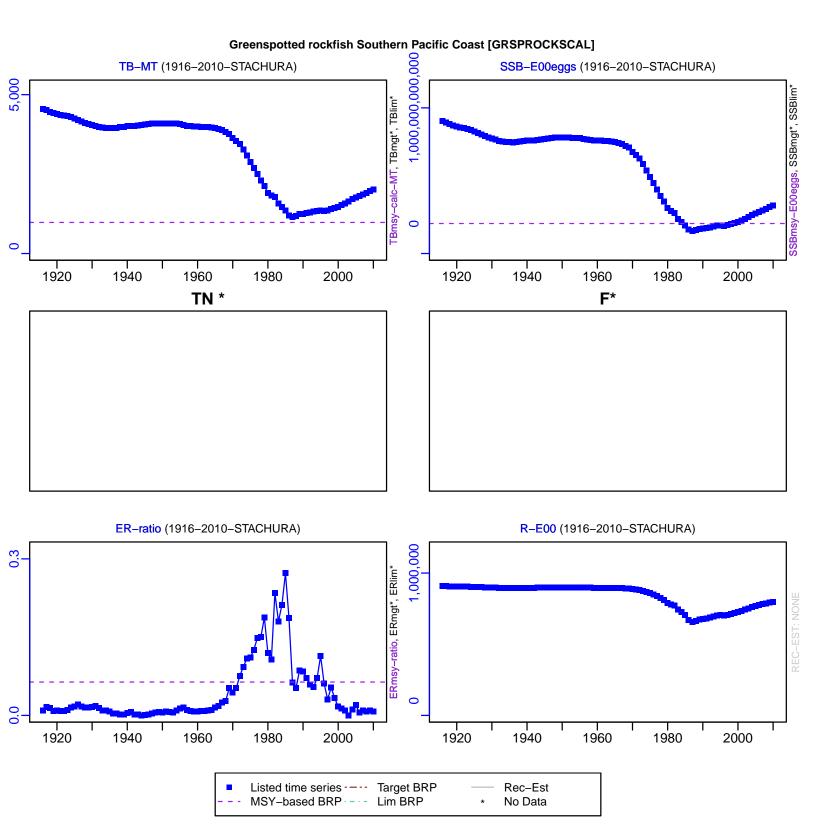
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID SWFSC-GRSPROCKSCAL-1916-2010-STACHURA			
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national managem			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2010		

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	-	-	-	

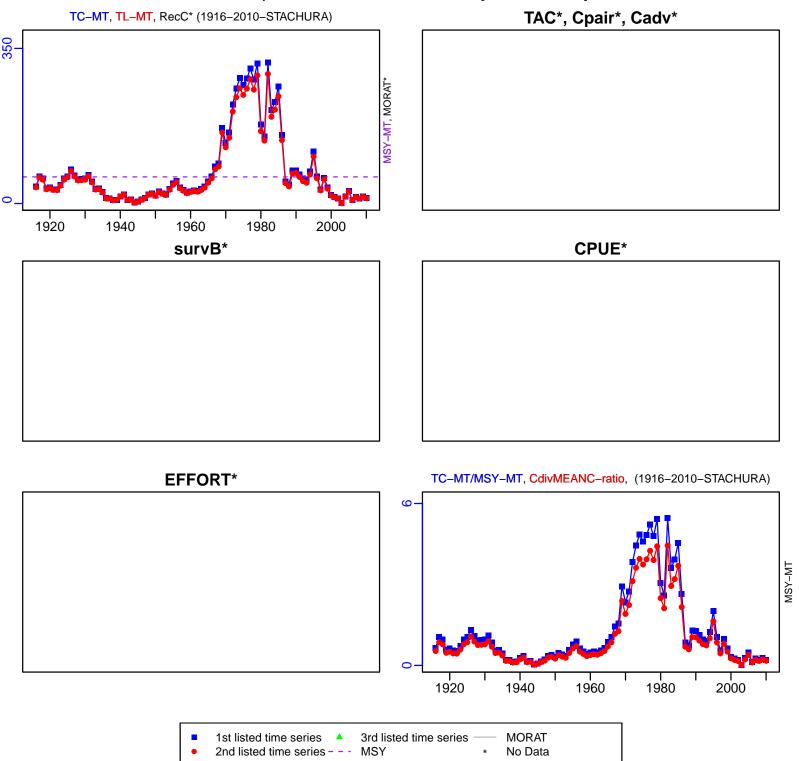
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1920	-	0+
SSB	SSB-E00eggs	2010	2.87×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	681,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0.007	-	-
TC	TC-MT	2010	11		
TL	TL-MT	2010	11		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.061		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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





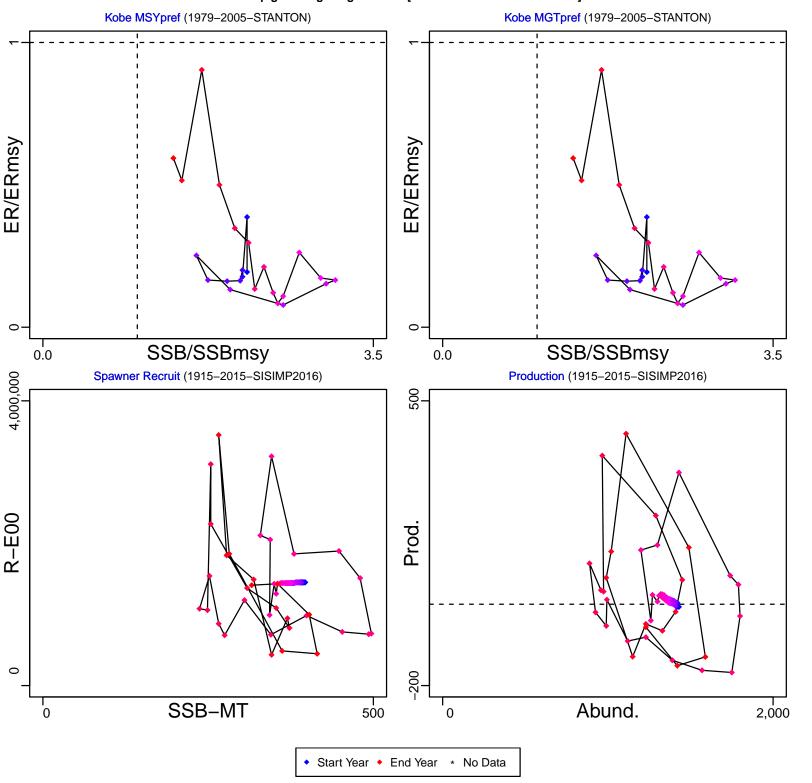
Greenspotted rockfish Southern Pacific Coast [GRSPROCKSCAL]

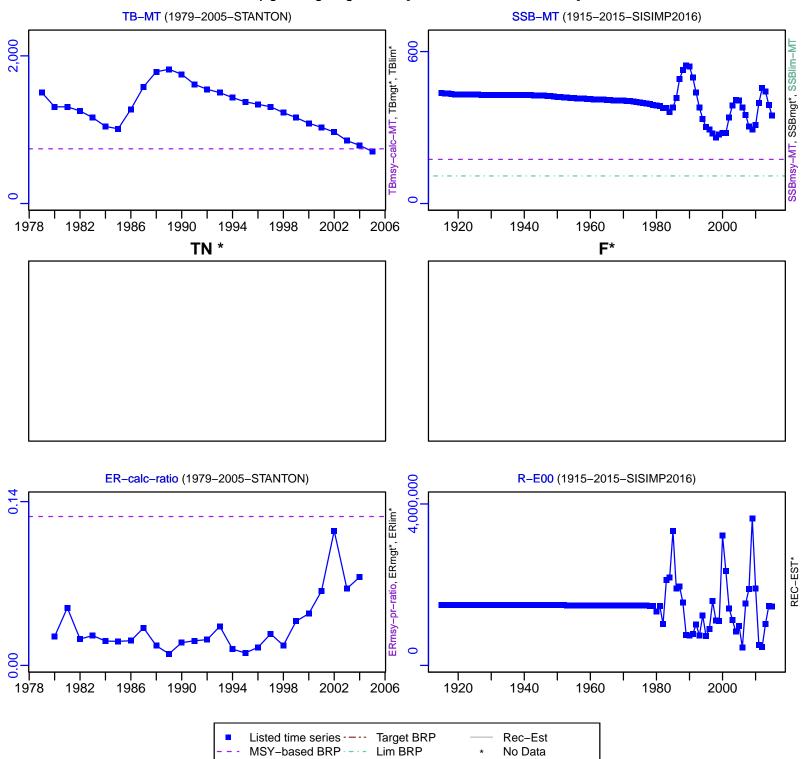


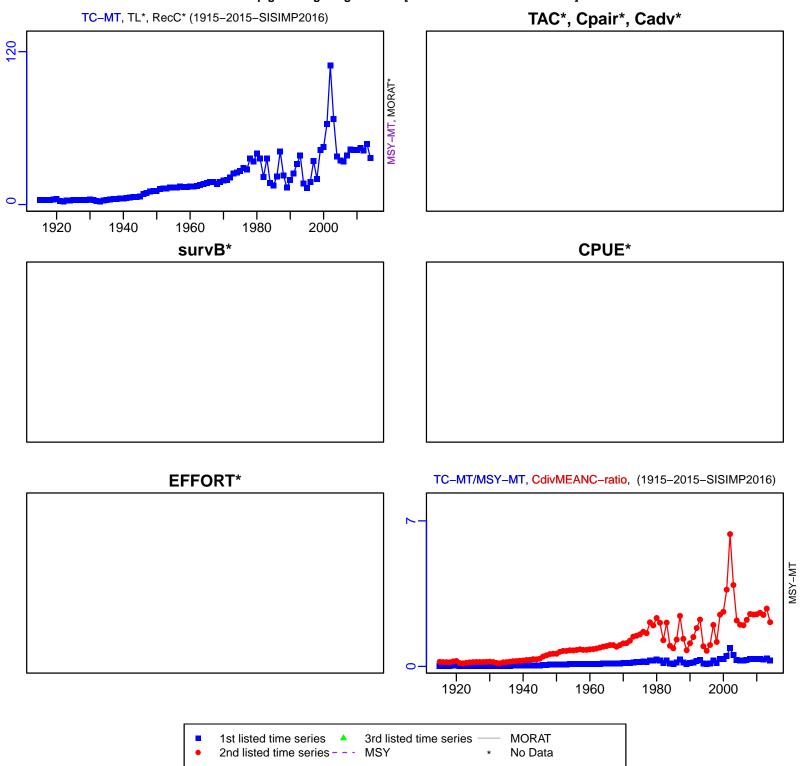
Metadata			
Scientific Name	Hexagrammos decagrammus		
Current Assess ID NWFSC-KELPGREENLINGORECOAST-1915-2015-SISIMP2016			
Area Oregon Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2005		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2005	656		
SSBmsy	SSBmsy-MT	2015	159		
Fmsy	-	-	-		
ERmsy	ERmsy-pr-ratio	2005	0.125		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2005	1295		
SSB0	SSB0-MT	2005	321		
MSY	MSY-MT	2015	130		
М	M-1/yr	2005	0.26		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2015	99		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1130	-	0+
SSB	SSB-MT	2015	316	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1,410,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0.03	-	-
TC	TC-MT	2015	33		
TL	TL-MT	2005	52		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	0.951		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.99		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-pr-ratio	2005	0.594		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



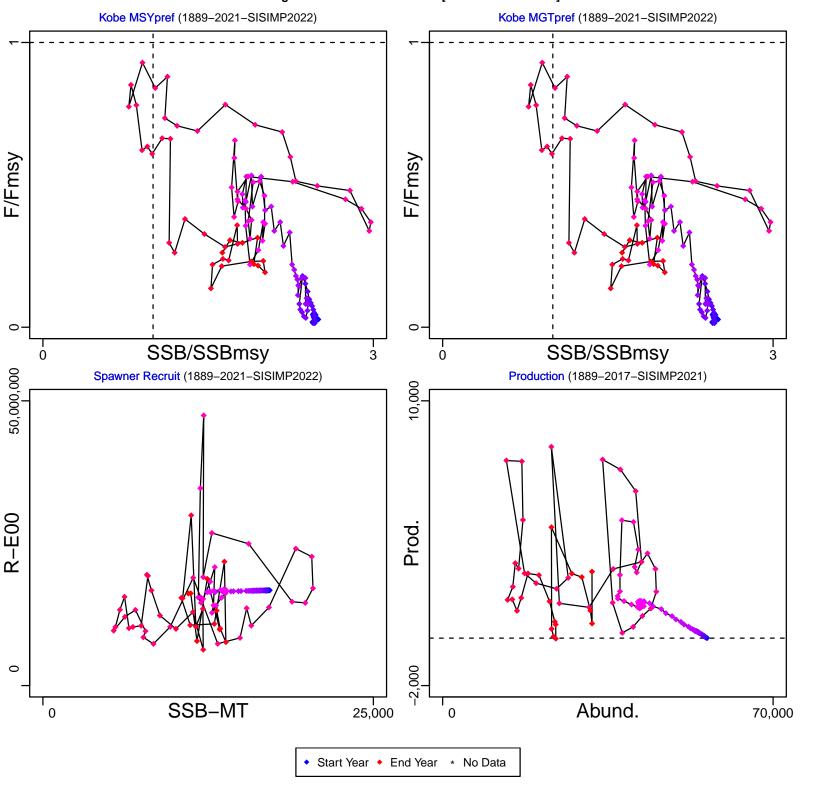


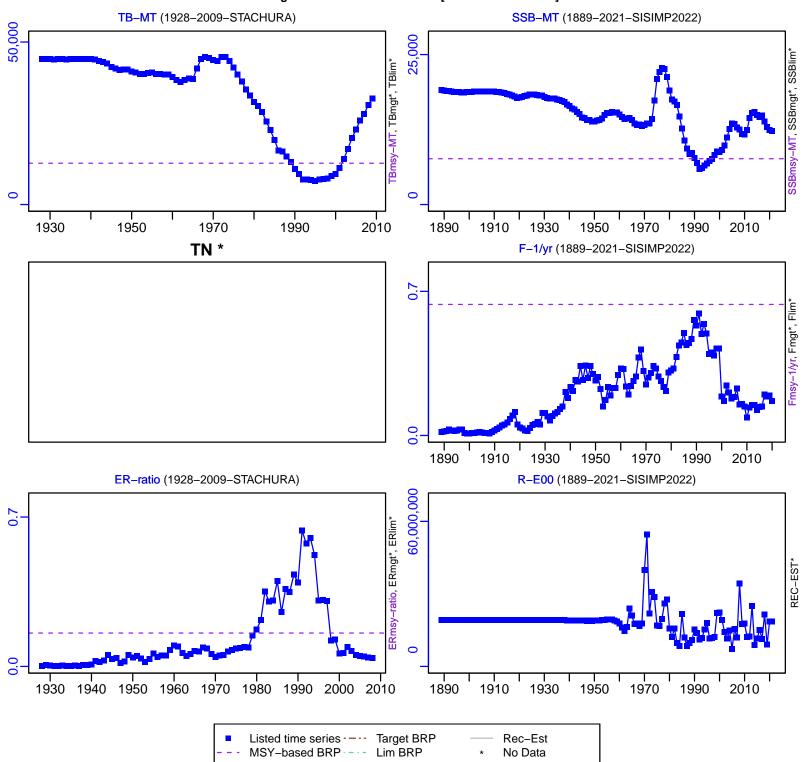


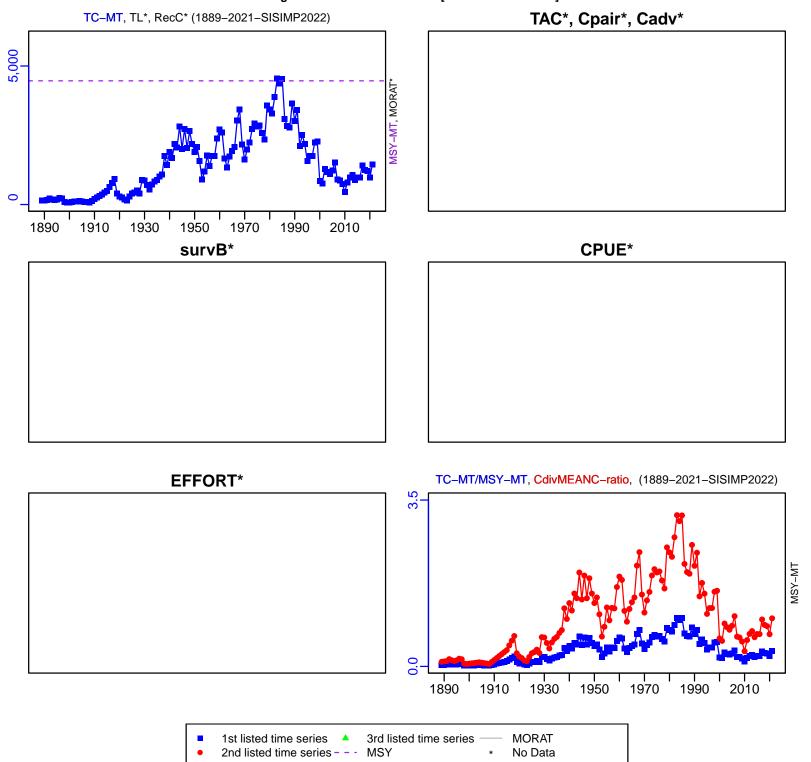
Metadata			
Scientific Name	Ophiodon elongatus		
Current Assess ID NWFSC-LINGCODNPCOAST-1889-2021-SISIMP2022			
Area Northern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2017, 2019, 2021, 2009		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2009	12,386		
SSBmsy	SSBmsy-MT	2021	6864		
Fmsy	Fmsy-1/yr	2021	0.55		
ERmsy	ERmsy-ratio	2009	0.14		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2009	44,536		
SSB0	SSB0-MT	2009	33,075		
MSY	MSY-MT	2021	3708		
M	M-1/yr	2009	0.18		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2019	9490		
Flim	Flim-1/yr	2019	0.55		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	34,064	-	-
SSB	SSB-MT	2021	11,010	-	-
TN	-	-	-	-	-
R	R-E00	2021	16,174,800	-	0
F	F-1/yr	2021	0.144	-	-
ER	ER-calc-ratio	2017	0.021	-	-
TC	TC-MT	2021	1200		
TL	TL-MT	2009	350		
TB/TBmsy	TB-MT/TBmsy-MT	2009	2.567		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.604		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.262		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.253		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



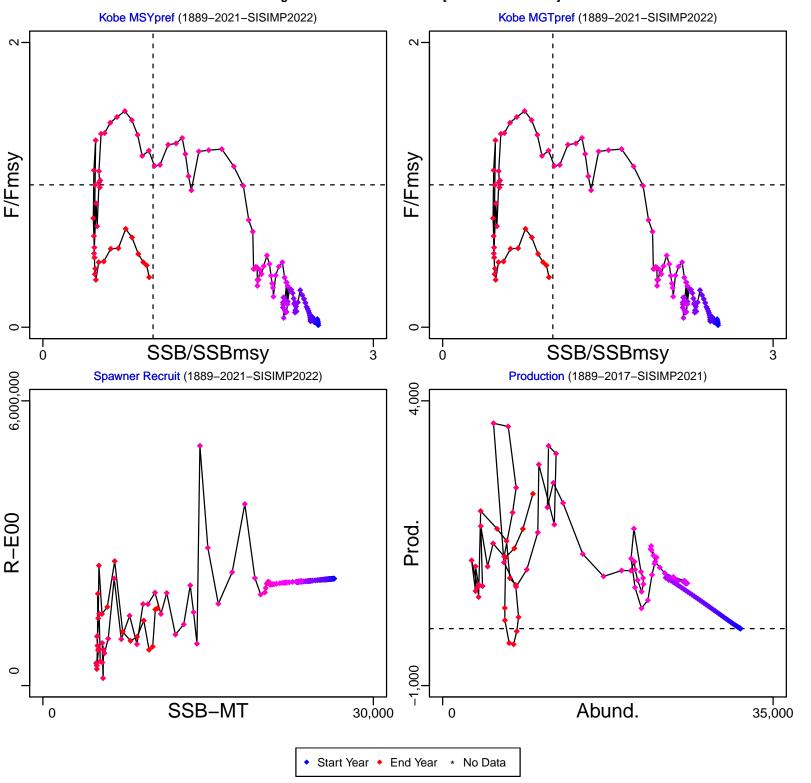


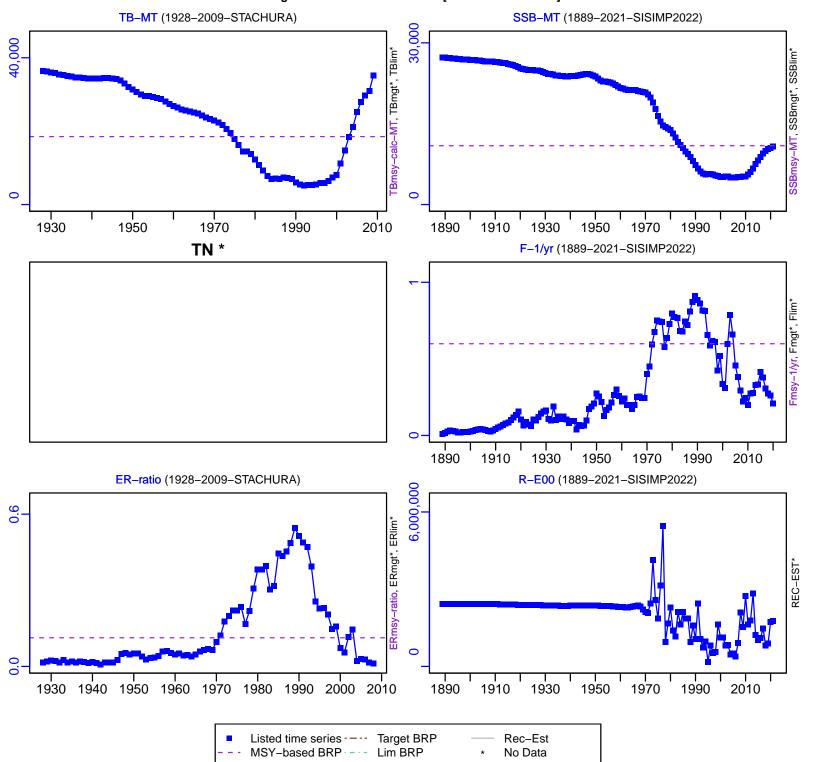


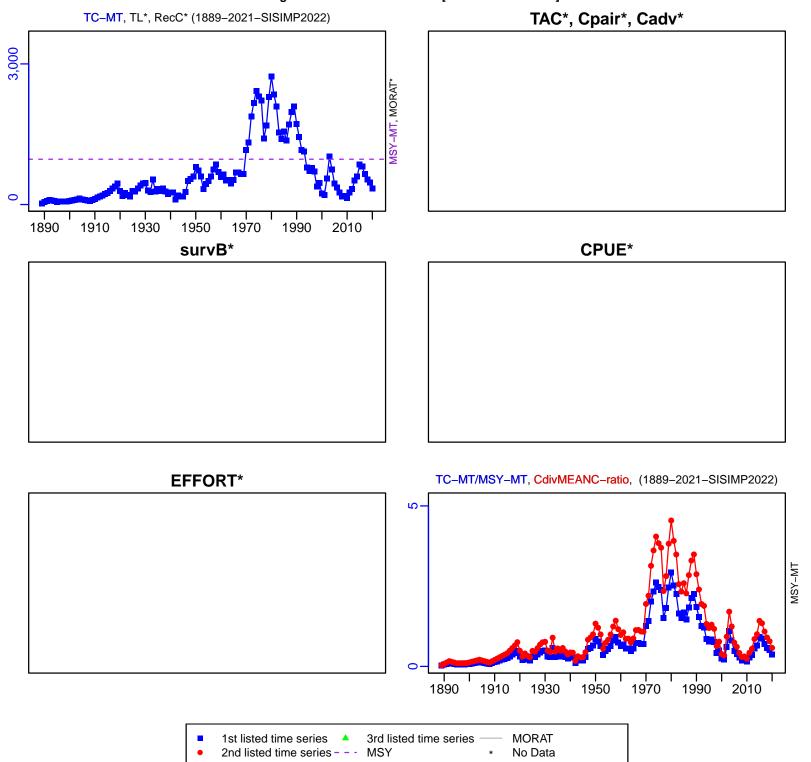
Metadata			
Scientific Name	Ophiodon elongatus		
Current Assess ID	NWFSC-LINGCODSPCOAST-1889-2021-SISIMP2022		
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2017, 2019, 2021, 2009		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2009	16,291	
SSBmsy	SSBmsy-MT	2021	10,577	
Fmsy	Fmsy-1/yr	2021	0.55	
ERmsy	ERmsy-ratio	2009	0.103	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	25,311	
MSY	MSY-MT	2021	815	
М	M-1/yr	2009	0.18	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	5060	
Flim	Flim-1/yr	2019	0.55	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	11,610	-	-
SSB	SSB-MT	2021	10,415	Females	-
TN	-	-	-	-	-
R	R-E00	2021	1,630,130	-	0
F	F-1/yr	2021	0.193	-	-
ER	ER-calc-ratio	2017	0.07	-	-
TC	TC-MT	2021	292		
TL	TL-MT	2009	171		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	1.897		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.985		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.351		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.093		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



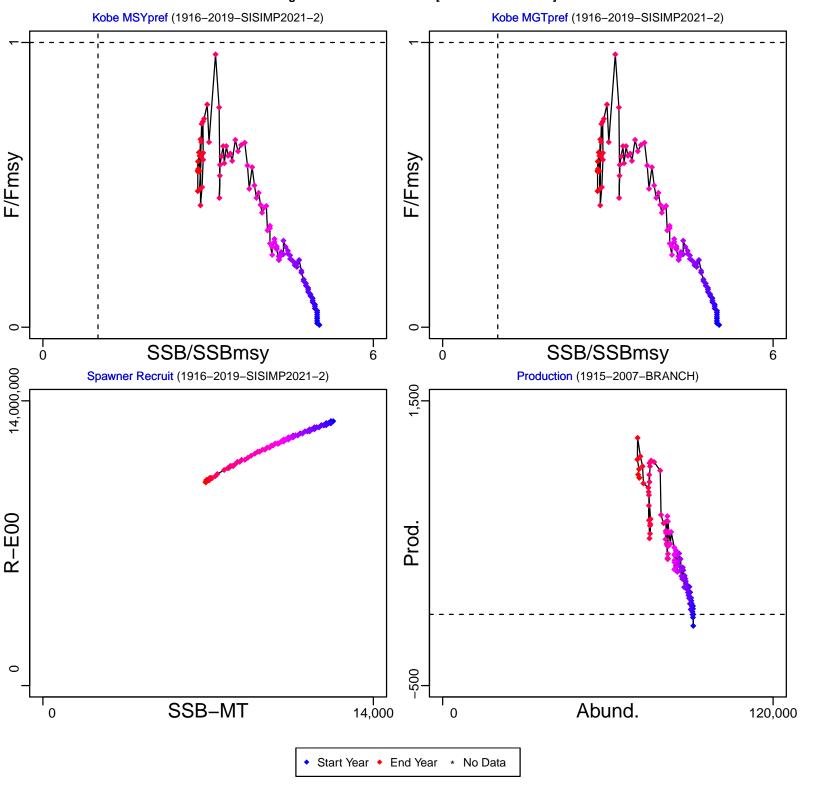


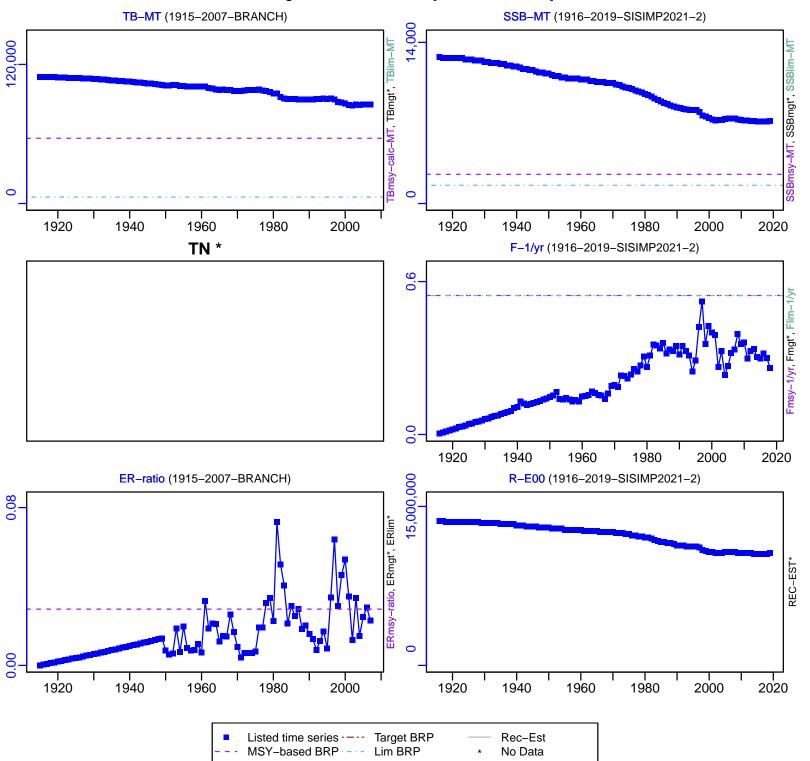


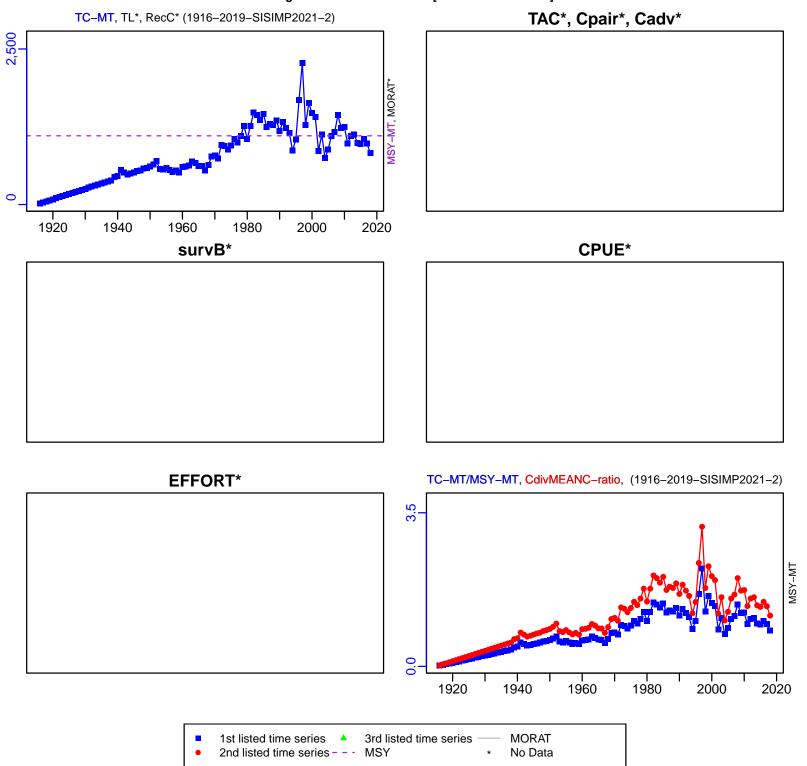
Metadata			
Scientific Name	Raja rhina		
Current Assess ID	NWFSC-LNOSESKAPCOAST-1916-2019-SISIMP2021-2		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2007, 2019		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	46,963	
SSBmsy	SSBmsy-MT	2019	2450	
Fmsy	Fmsy-1/yr	2019	0.5	
ERmsy	ERmsy-ratio	2007	0.027	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	7034	
MSY	MSY-MT	2019	1030	
M	M-1/yr	2007	0.2	
TBlim	TBlim-MT	2007	4617	
SSBlim	SSBlim-MT	2019	1530	
Flim	Flim-1/yr	2019	0.5	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	71,200	-	0+
SSB	SSB-MT	2019	6920	-	-
TN	-	-	-	-	-
R	R-E00	2019	10,100,000	-	0
F	F-1/yr	2019	0.239	-	-
ER	ER-ratio	2007	0.022	-	-
TC	TC-MT	2019	771		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.516		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.824		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.478		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.8		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







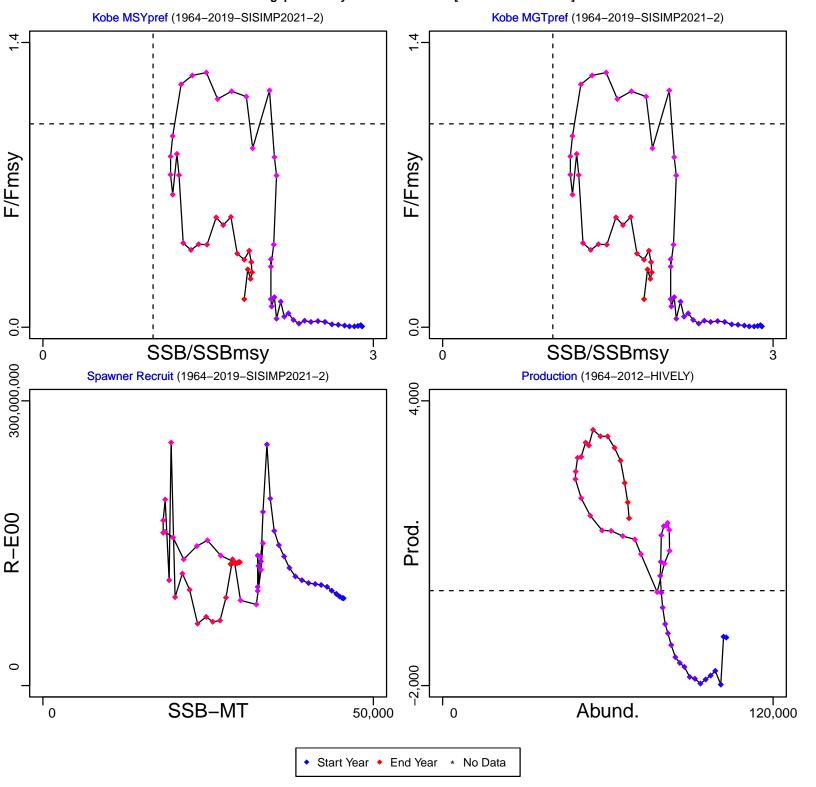
Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

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			

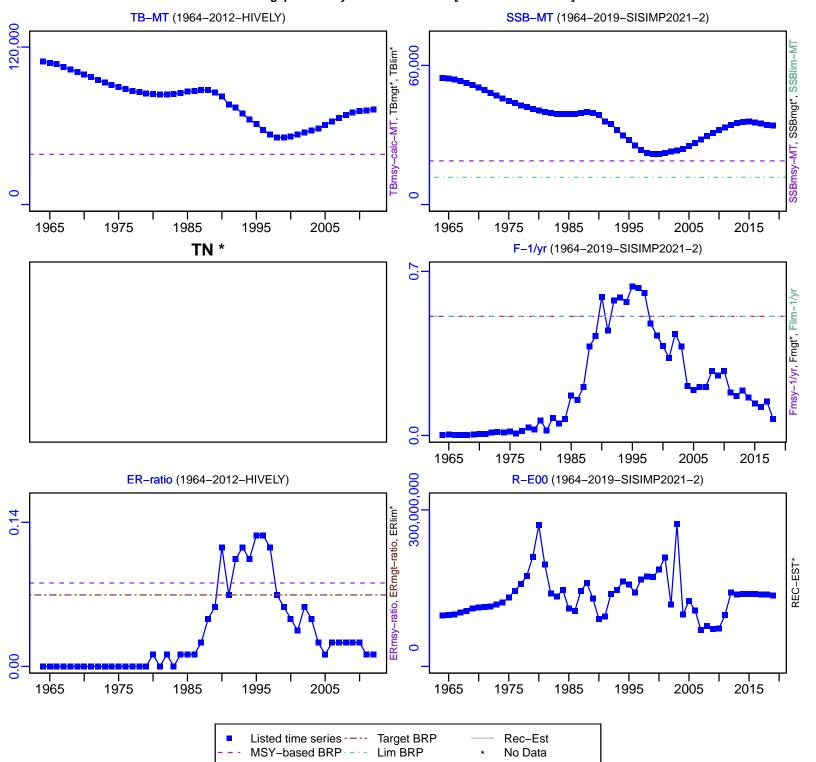
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2012	36,129			
SSBmsy	SSBmsy-MT	2019	15,700			
Fmsy	Fmsy-1/yr	2019	0.5			
ERmsy	ERmsy-ratio	2012	0.07			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2012	15,654			
Fmgt	-	-	-			
ERmgt	ERmgt-ratio	2012	0.06			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT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

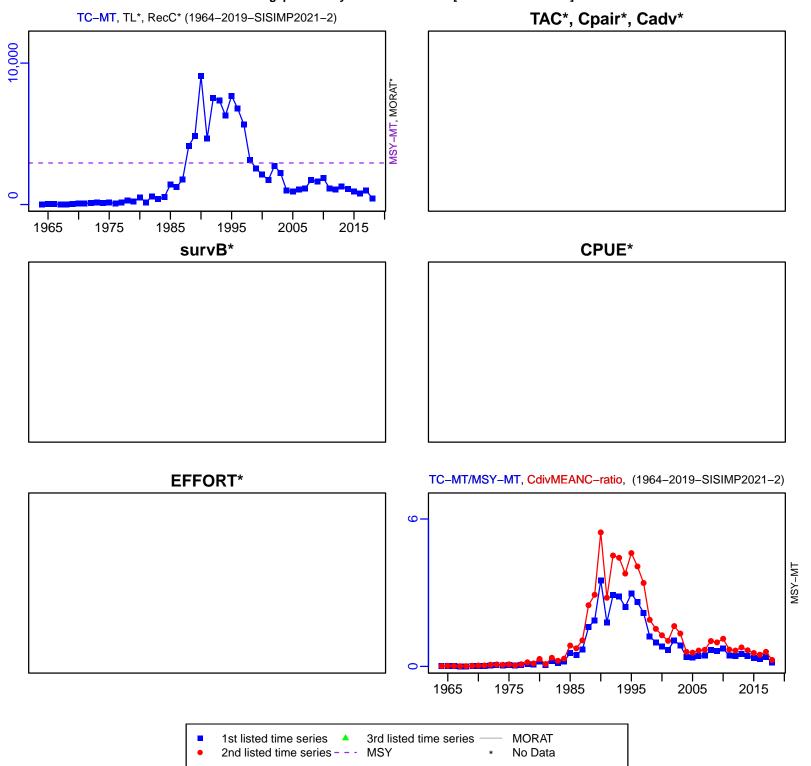
Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]



Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]



Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

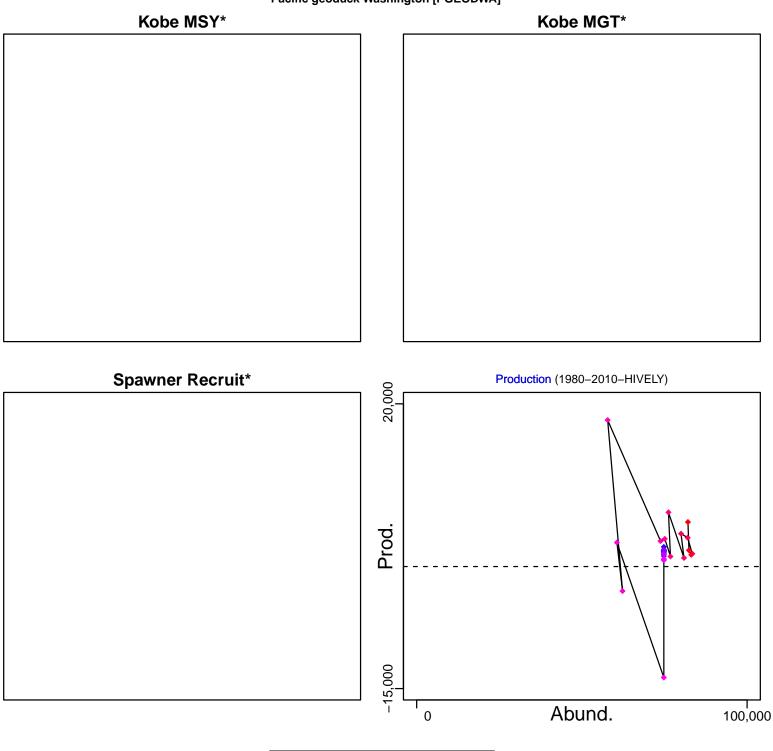


Pacific geoduck Washington [PGEODWA]

Metadata			
Scientific Name	Panopea generosa		
Current Assess ID WDFW-PGEODWA-1980-2010-HIVELY			
Area	Washington		
Management Authority	State of Washington		
Assessor	Washington Department of Fish and Wildlife		
Asmts in RAM	2010		

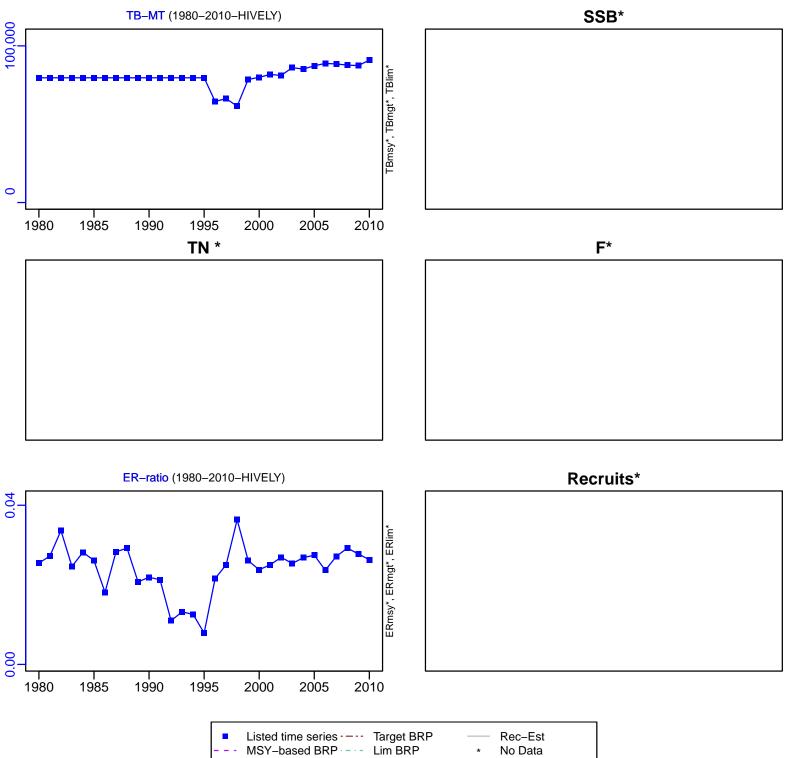
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	85,400	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.025	-	-
TC	TC-MT	2010	2150		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



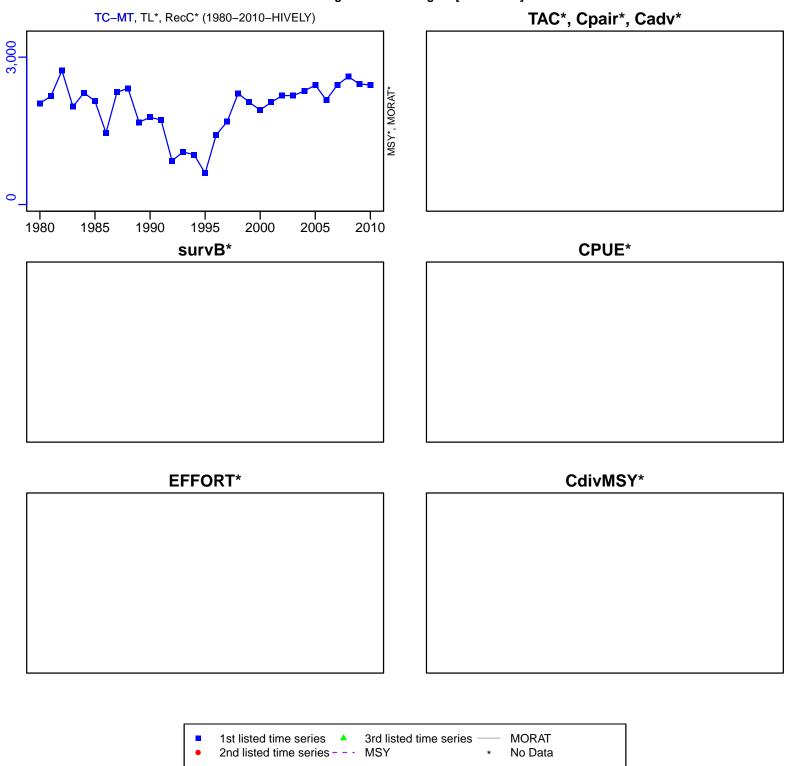
Start Year ◆ End Year * No Data

Pacific geoduck Washington [PGEODWA]



No Data

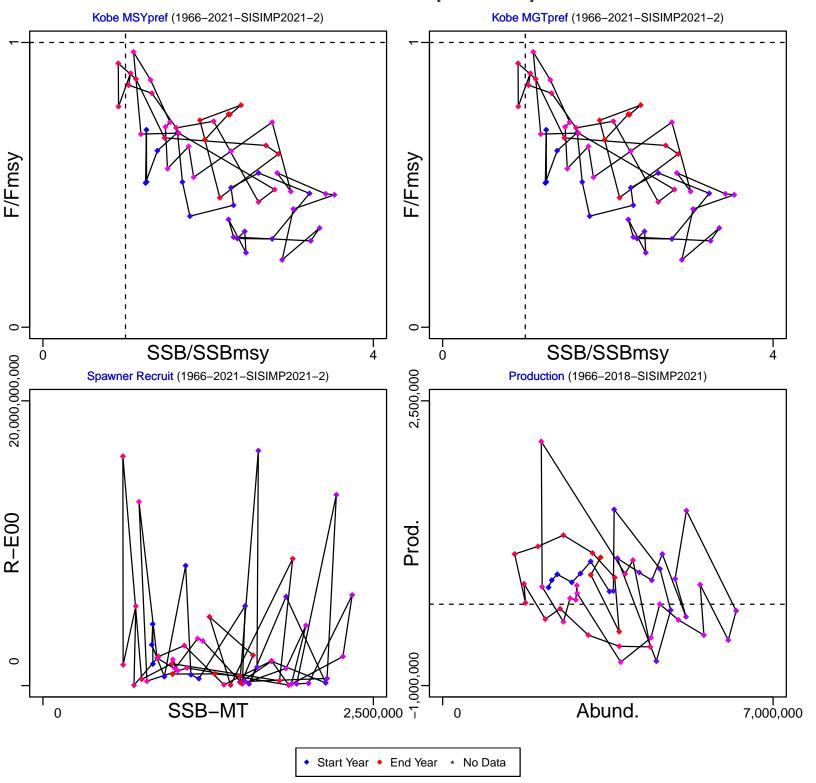
Pacific geoduck Washington [PGEODWA]

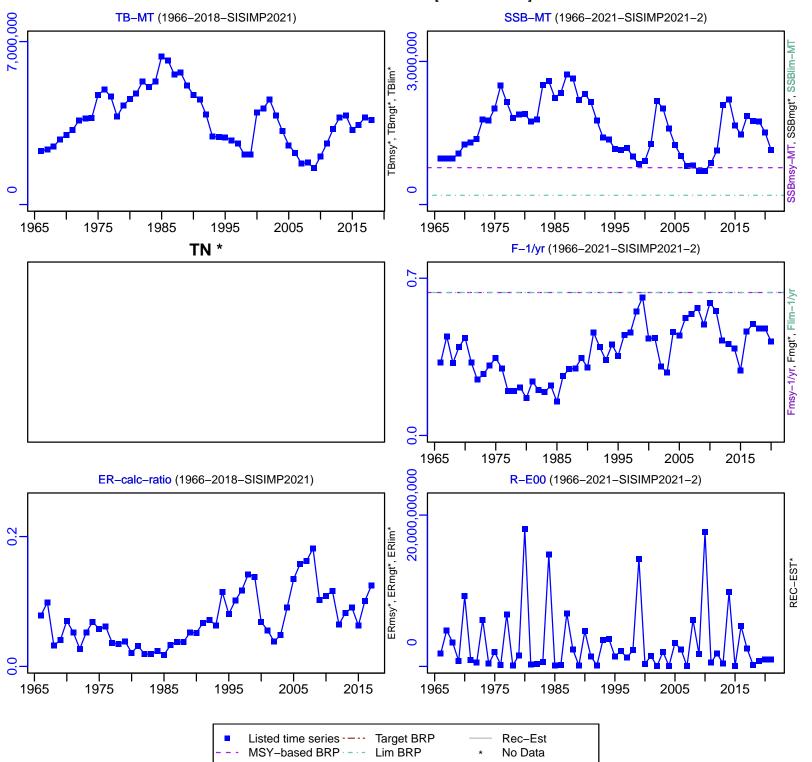


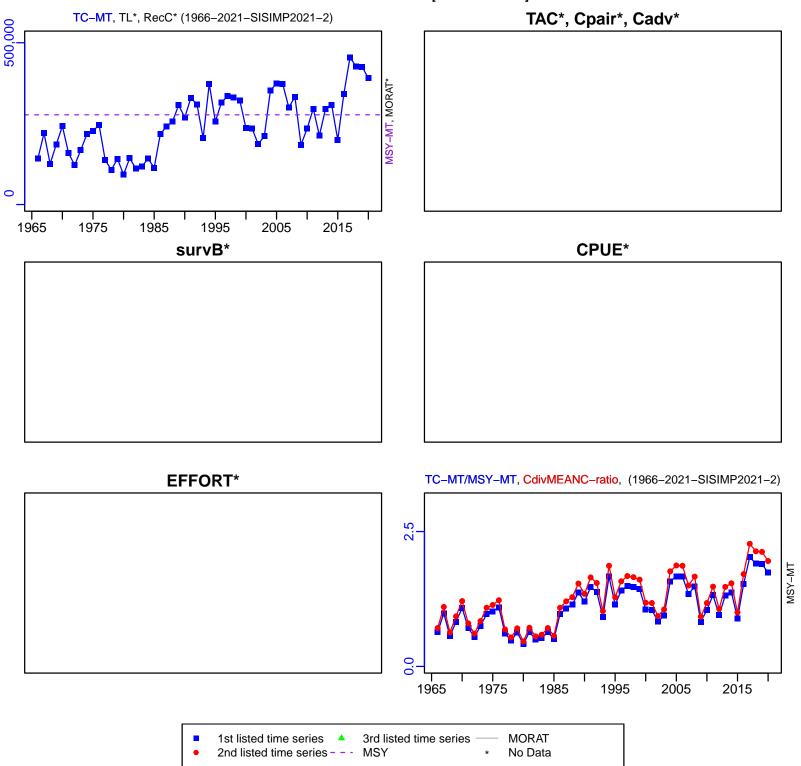
Metadata			
Scientific Name	Merluccius productus		
Current Assess ID PFMC-PHAKEPCOAST-1966-2021-SISIMP2021-2			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national managen			
Assessor	Pacific Fishery Management Council		
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2016	1,222,892		
SSBmsy	SSBmsy-MT	2021	663,000		
Fmsy	Fmsy-1/yr	2021	0.6		
ERmsy	ERmsy-ratio	2016	0.332		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2016	959,000		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2016	0.19		
TB0	-	-	-		
SSB0	SSB0-MT	2016	2,397,000		
MSY	MSY-MT	2021	269,000		
M	M-1/yr	2016	0.226		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2021	166,000		
Flim	Flim-1/yr	2021	0.6		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	3,557,240	-	-
SSB	SSB-MT	2021	981,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	8.1×10^{8}	-	0
F	F-1/yr	2021	0.395	-	-
ER	ER-calc-ratio	2018	0.097	-	-
TC	TC-MT	2021	379,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.48		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.658		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.202		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.971		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







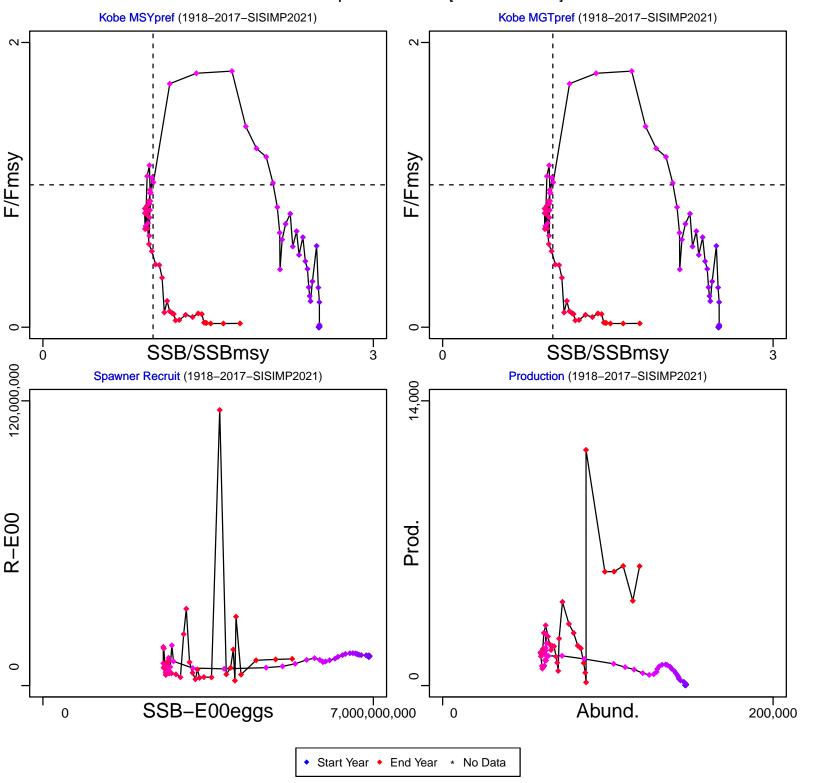
Pacific ocean perch Pacific Coast [POPERCHPCOAST]

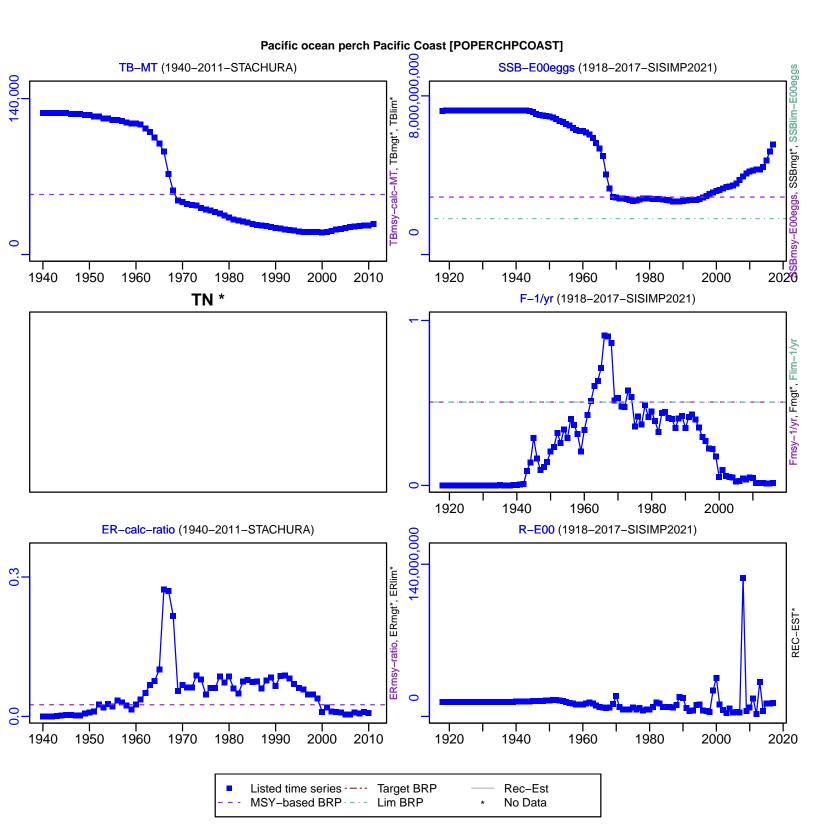
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID NWFSC-POPERCHPCOAST-1918-2017-SISIMP2021			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2017, 2011		

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	-	-	-	

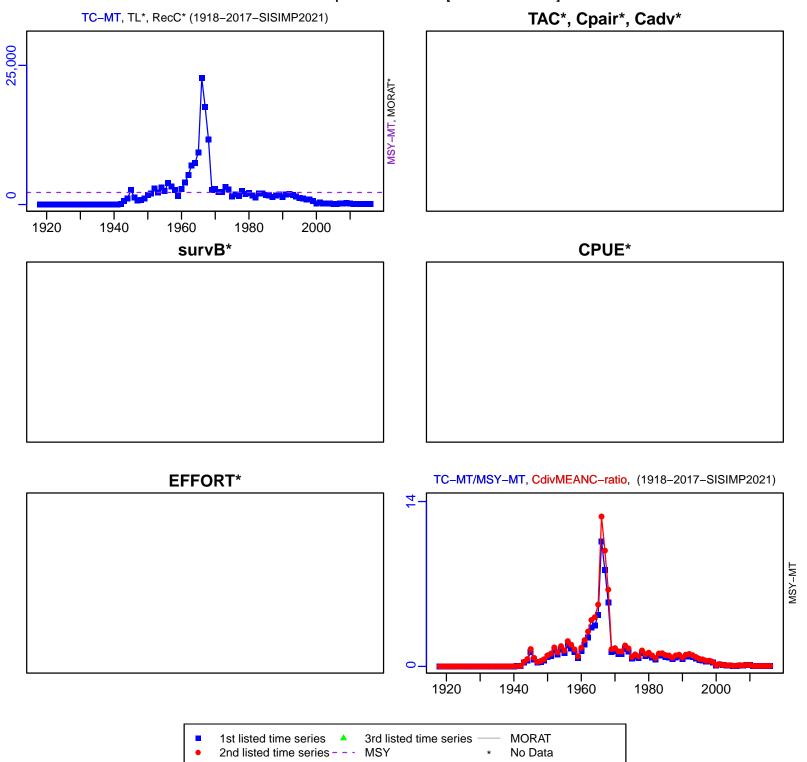
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2017	128,529	-	-
SSB	SSB-E00eggs	2017	5,280,380,000	-	-
TN	-	-	-	-	-
R	R-E00	2017	11,253,100	-	0
F	F-1/yr	2017	0.013	-	-
ER	ER-calc-ratio	2017	0.001	-	-
TC	TC-MT	2017	68		
TL	TL-MT	2011	91		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.506		
SSB/SSBmsy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





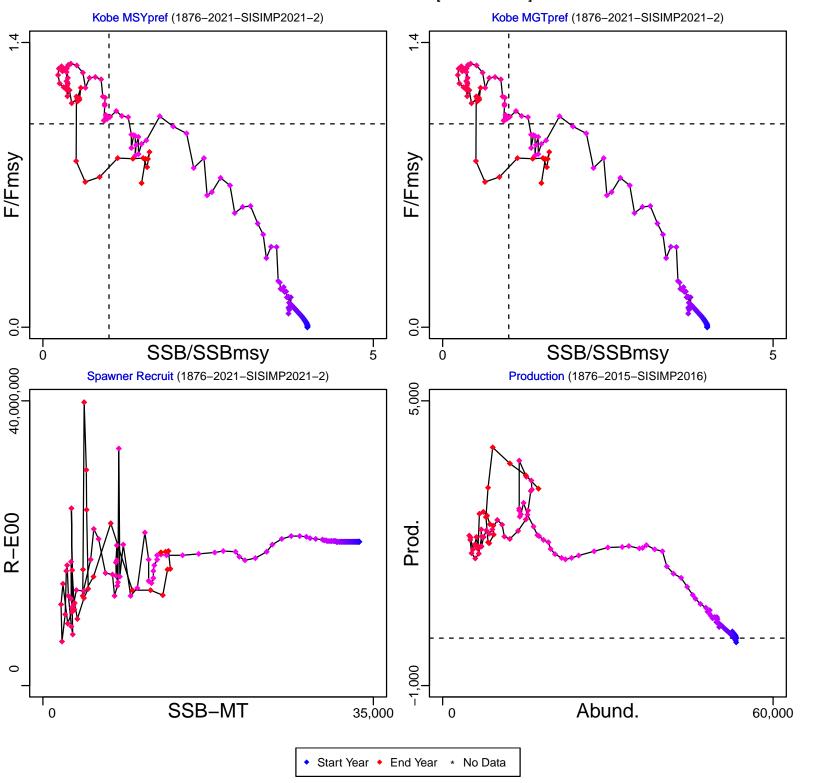
Pacific ocean perch Pacific Coast [POPERCHPCOAST]

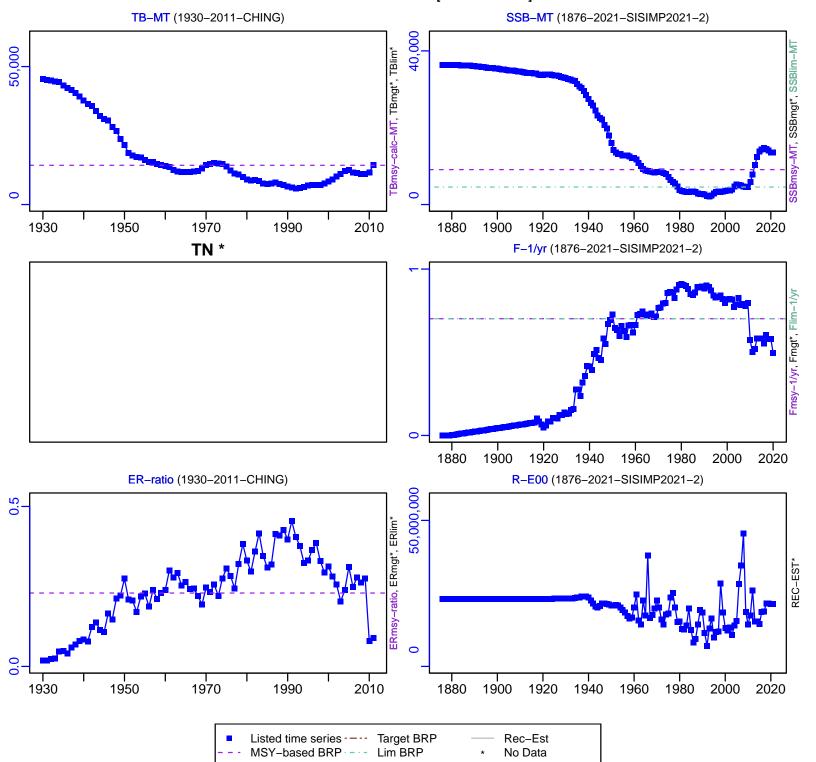


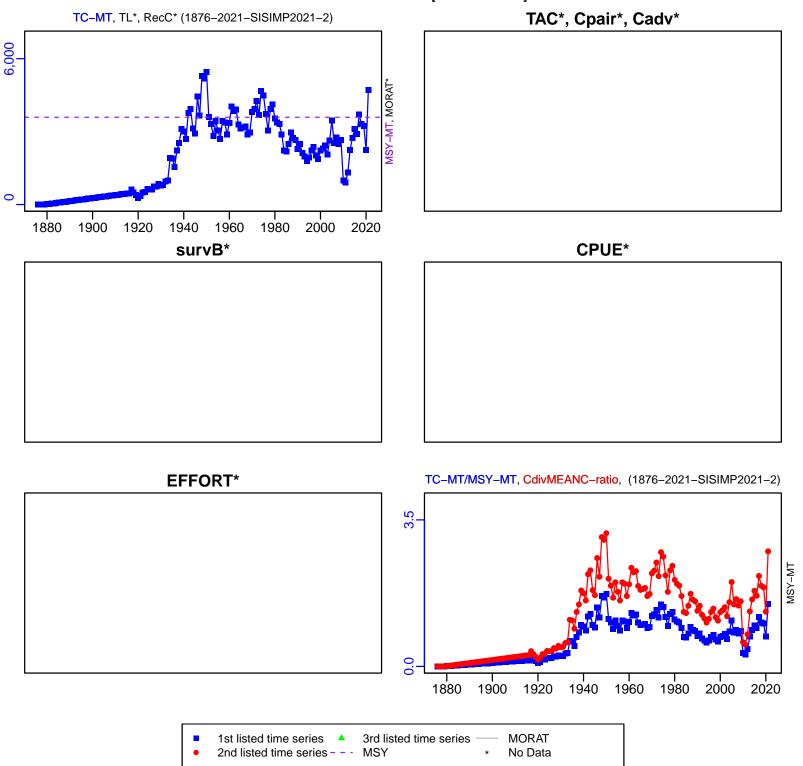
Metadata			
Scientific Name	Eopsetta jordani		
Current Assess ID NWFSC-PSOLEPCOAST-1876-2021-SISIMP2021-2			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2015, 2019, 2021, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	11,764	
SSBmsy	SSBmsy-MT	2021	8370	
Fmsy	Fmsy-1/yr	2021	0.7	
ERmsy	ERmsy-ratio	2011	0.22	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	41,352	
SSB0	SSB0-MT	2011	26,278	
MSY	MSY-MT	2021	3140	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2021	4190	
Flim	Flim-1/yr	2021	0.7	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	19,400	-	3+
SSB	SSB-MT	2021	12,500	-	-
TN	-	-	-	-	-
R	R-E00	2021	18,700,000	-	0
F	F-1/yr	2021	0.496	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2021	4120		
TL	TL-MT	2011	701		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.012		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.493		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.709		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.386		
TB/TBmgt	-	-	-	1	
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







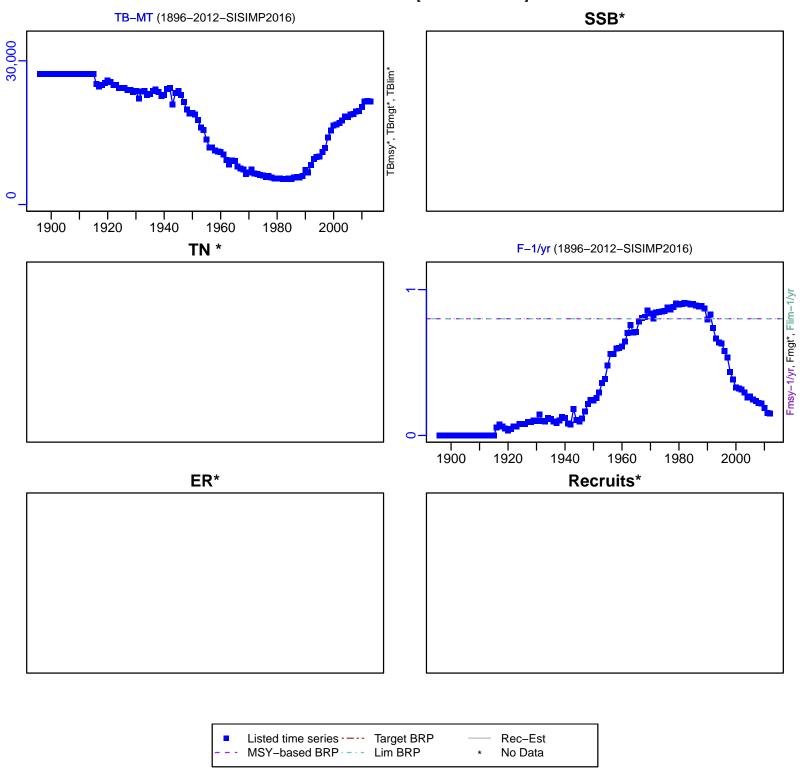
Metadata		
Scientific Name	Glyptocephalus zachirus	
Current Assess ID	NWFSC-REXSOLEPCOAST-1896-2012-SISIMP2016	
Area Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management	
Assessor Northwest Fisheries Science Center		
Asmts in RAM	2012	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.7
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	1646
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2012	0.7
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	18,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2012	0.131	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.187		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



TAC*, Cpair*, Cadv*
CPUE*
CdivMSY*
listed time series — MORAT

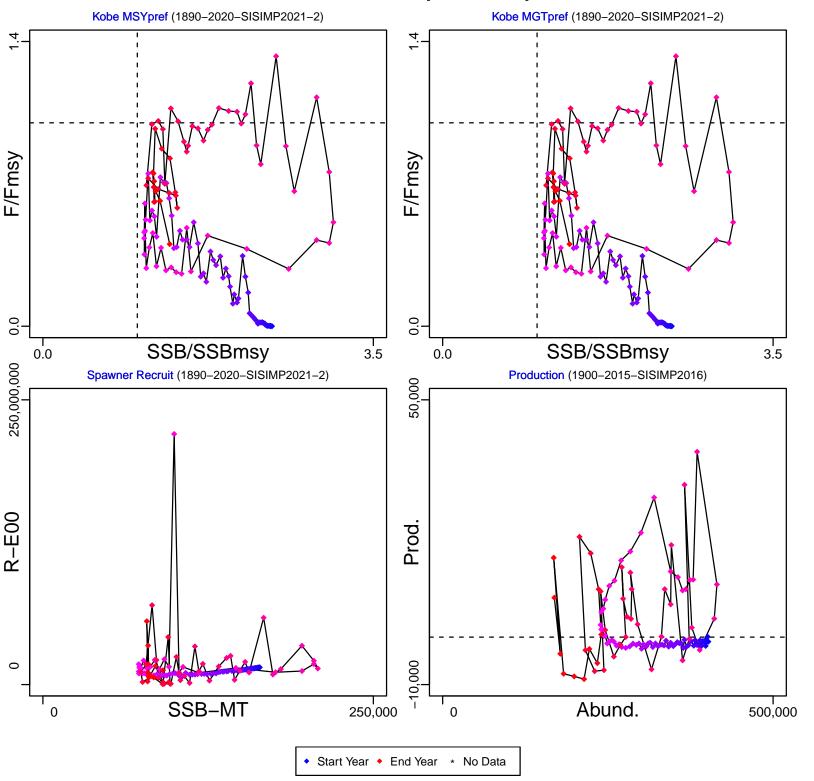
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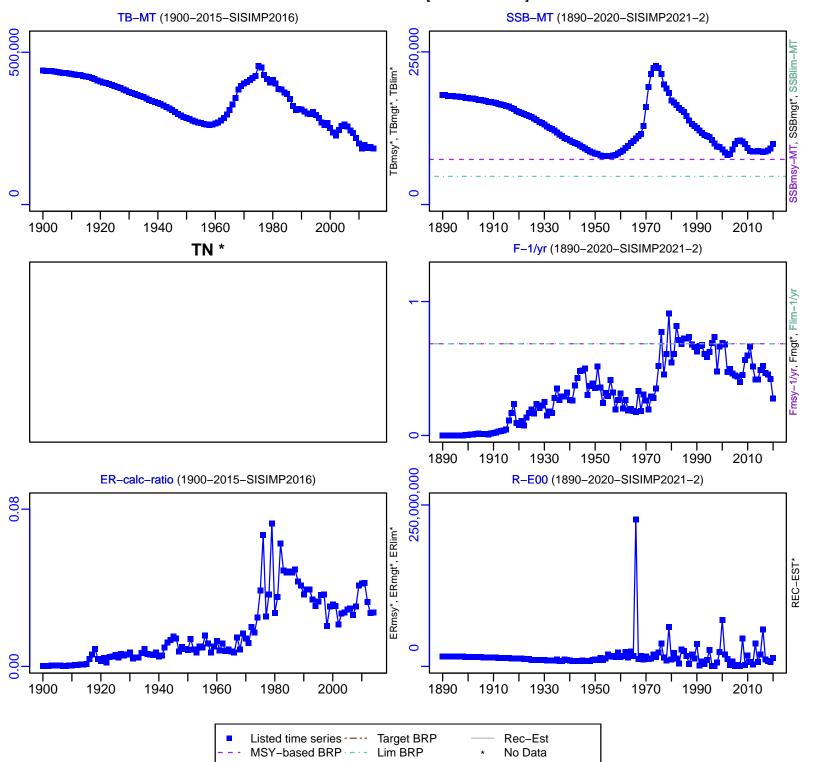
2nd listed time series - - - MSY

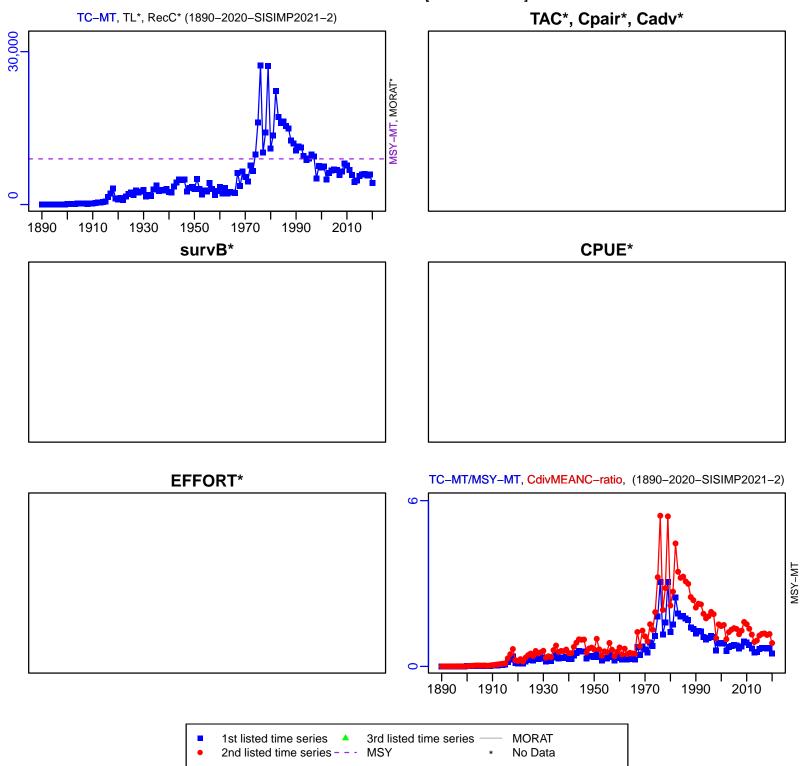
Metadata		
Scientific Name	Anoplopoma fimbria	
Current Assess ID	NWFSC-SABLEFPCOAST-1890-2020-SISIMP2021-2	
Area Pacific Coast		
Management Authority National Marine Fisheries Service, US national management		
Assessor	Assessor Northwest Fisheries Science Center	
Asmts in RAM	2019, 2020, 2011, 2015	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	67,600
Fmsy	Fmsy-1/yr	2020	0.55
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	537,893
SSB0	SSB0-MT	2011	182,136
MSY	MSY-MT	2020	8210
M	M-1/yr	2011	0.08
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	42,200
Flim	Flim-1/yr	2020	0.55
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	168,000	-	4+
SSB	SSB-MT	2020	90,800	-	-
TN	-	-	-	-	-
R	R-E00	2020	12,500,000	-	0
F	F-1/yr	2020	0.222	-	-
ER	ER-calc-ratio	2015	0.026	-	-
TC	TC-MT	2020	3880		
TL	TL-MT	2011	6820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.343		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.404		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





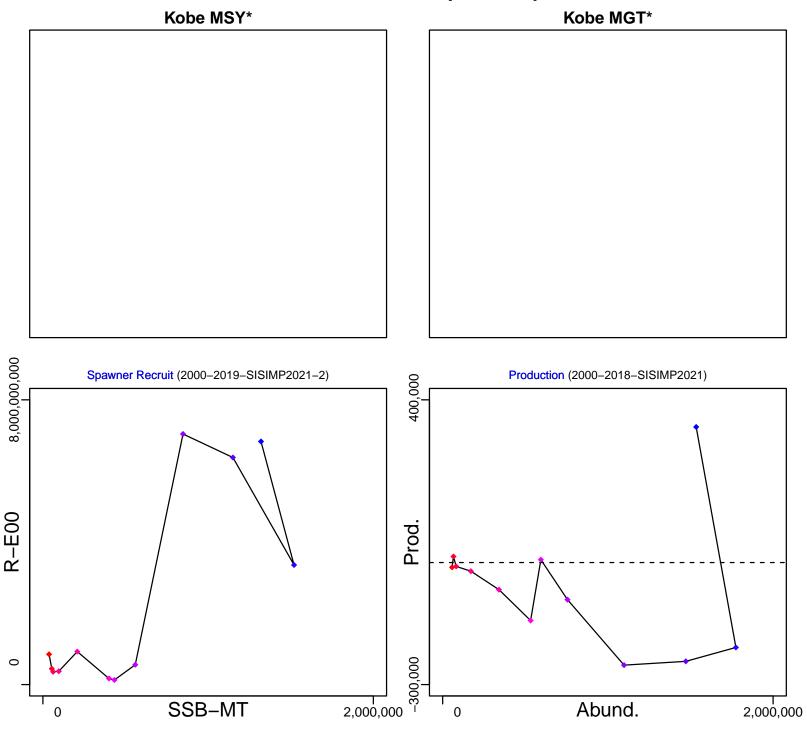


Pacific sardine Pacific Coast [SARDPCOAST]

Metadata		
Scientific Name	Sardinops sagax	
Current Assess ID	SWFSC-SARDPCOAST-2000-2019-SISIMP2021-2	
Area Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management	
Assessor Southwest Fisheries Science Center		
Asmts in RAM	2007, 2016, 2017, 2018, 2019	

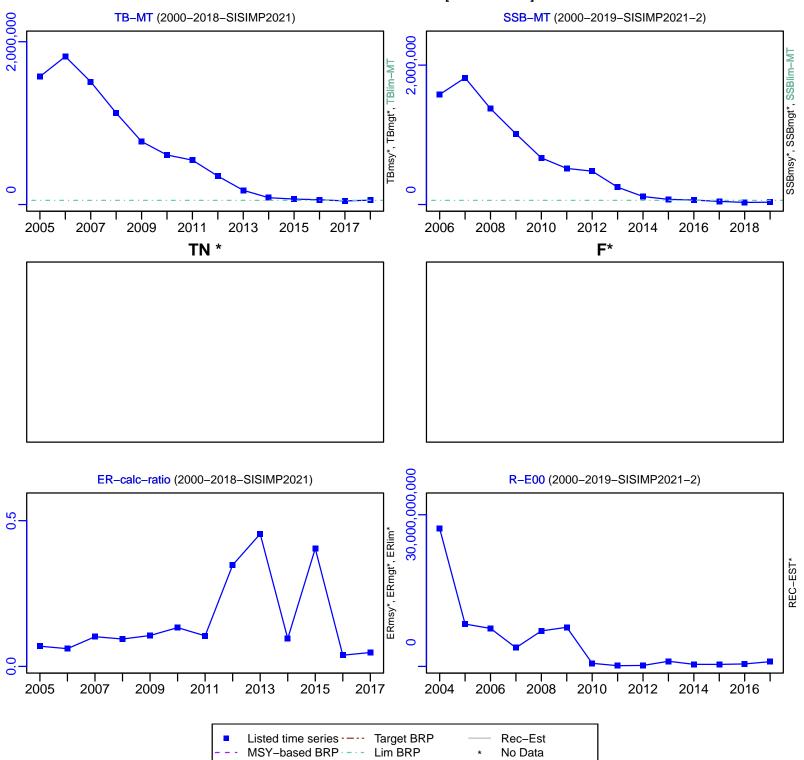
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.4
TBlim	TBlim-MT	2018	50,000
SSBlim	SSBlim-MT	2019	50,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	52,065	-	-
SSB	SSB-MT	2019	27,500	-	-
TN	-	-	-	-	-
R	R-E00	2019	8.51×10^{8}	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.042	-	-
TC	TC-MT	2019	372		
TL	-	-	-]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
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F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

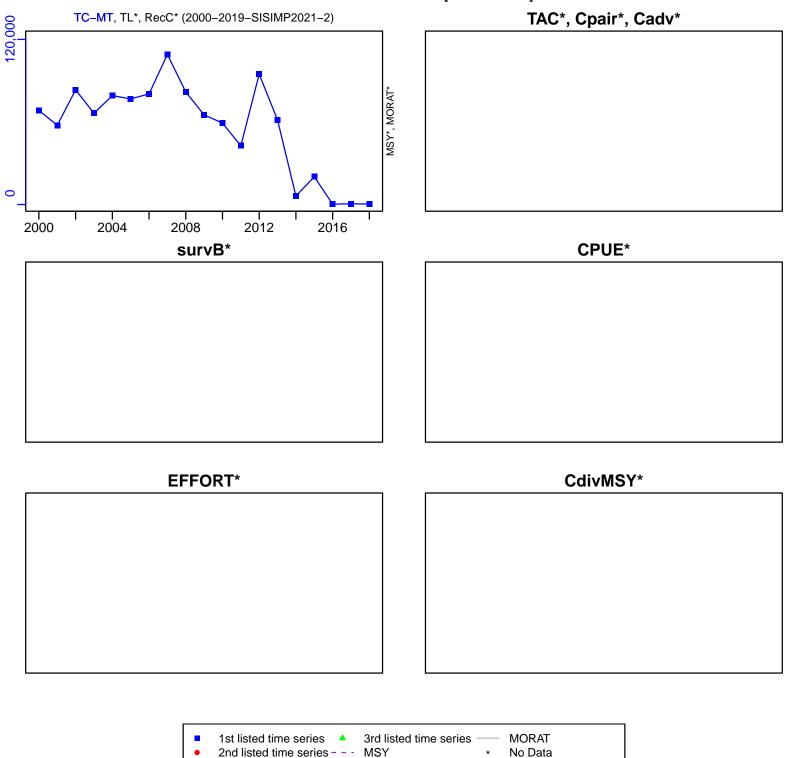


Start Year • End Year • No Data

Pacific sardine Pacific Coast [SARDPCOAST]



Pacific sardine Pacific Coast [SARDPCOAST]

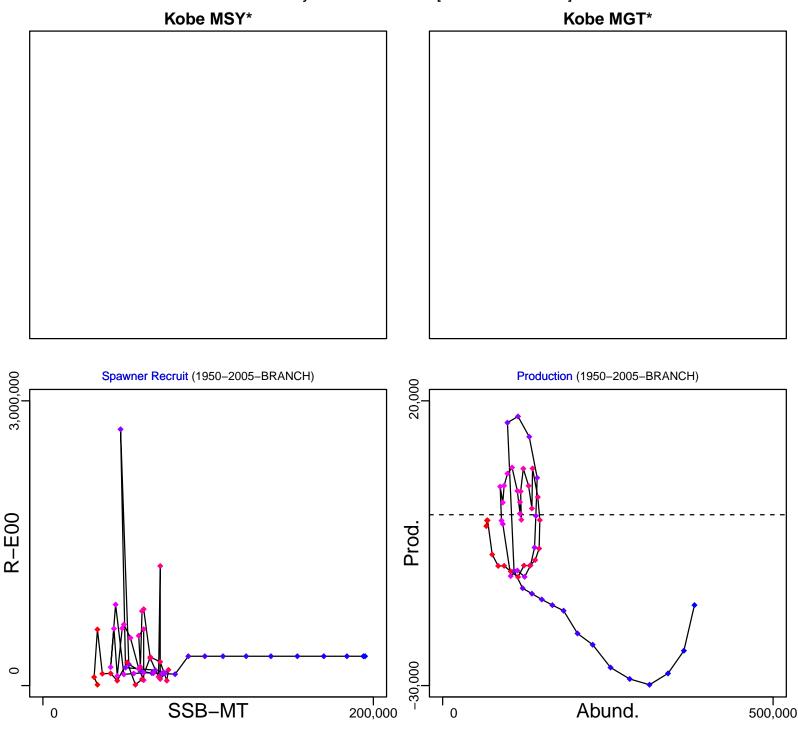


Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

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	

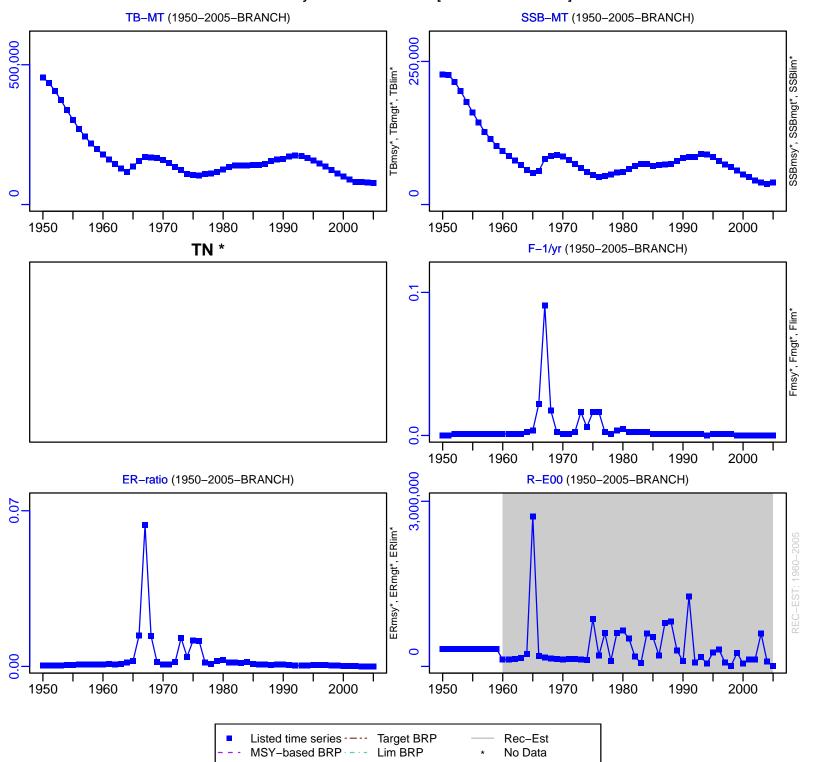
Reference Points				
Туре	ID Asmt Year		Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	98,400	
SSB0	SSB0-MT	2005	49,500	
MSY	-	-	-	
М	M-1/yr	2005	0.26	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-		

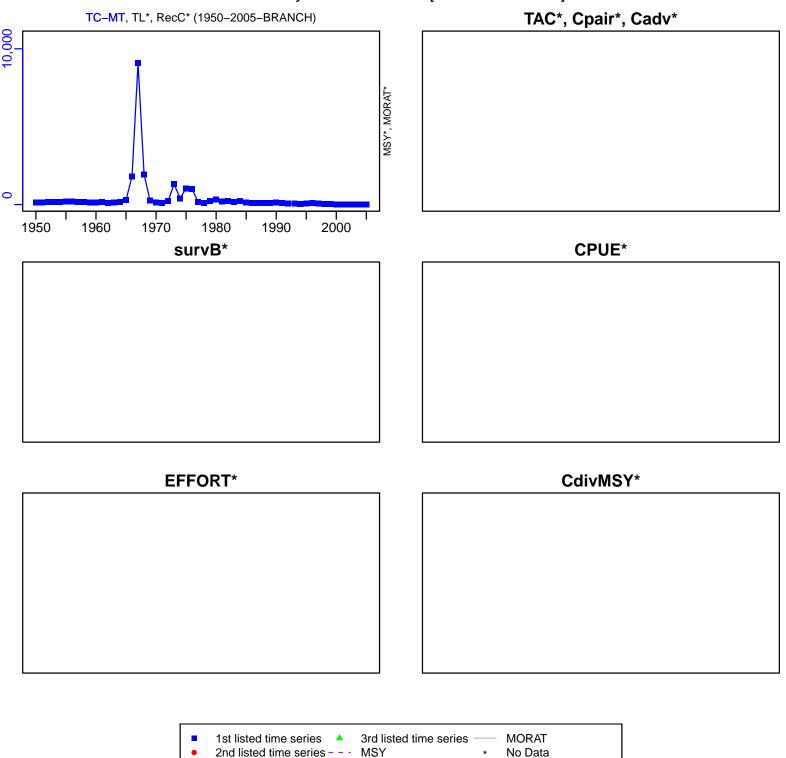


Start Year • End Year • No Data

Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]



Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

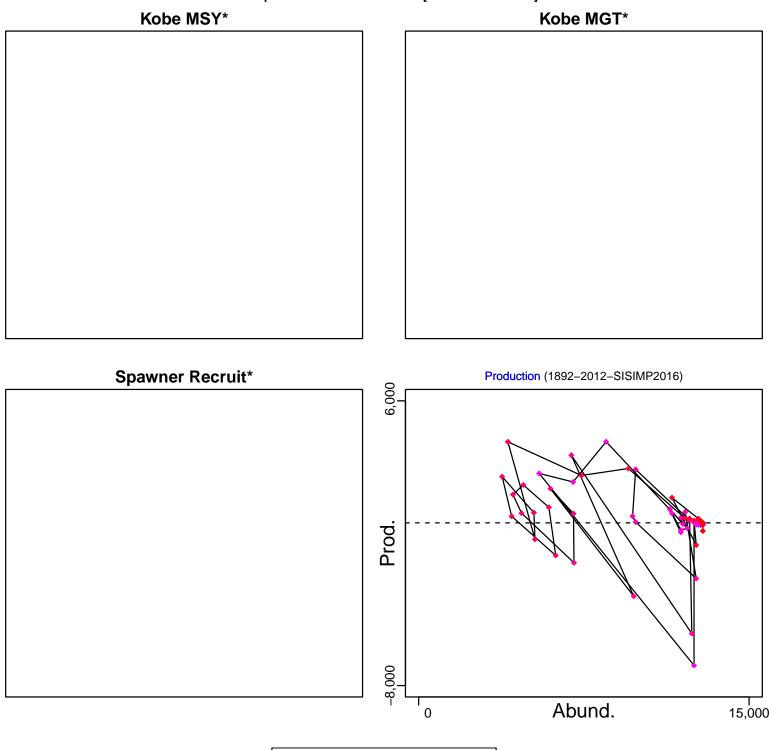


Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]

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

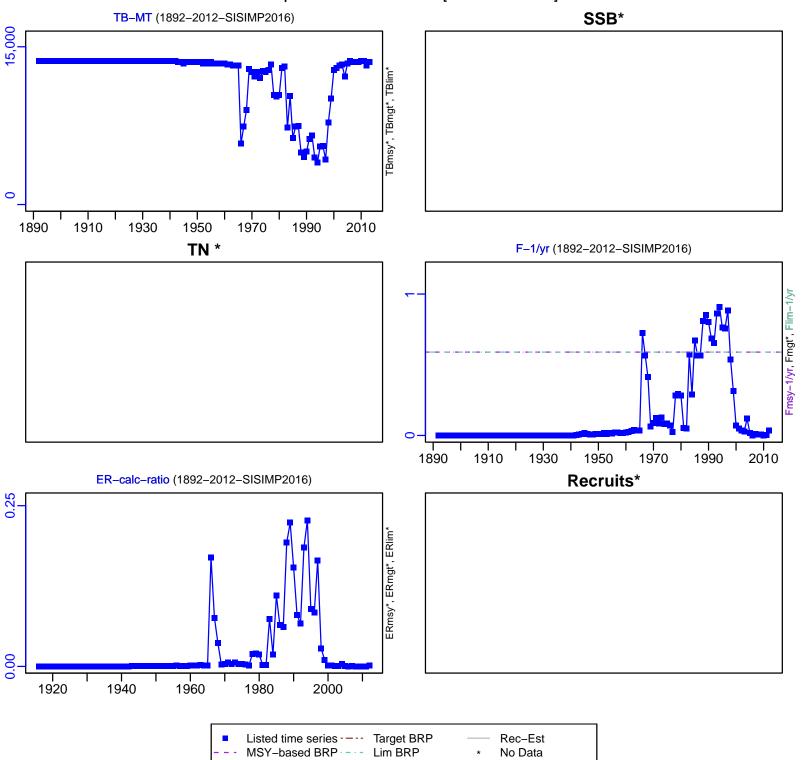
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2012	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	270	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2012	0.5	
ERlim	-	-	-	

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	-	-	-		

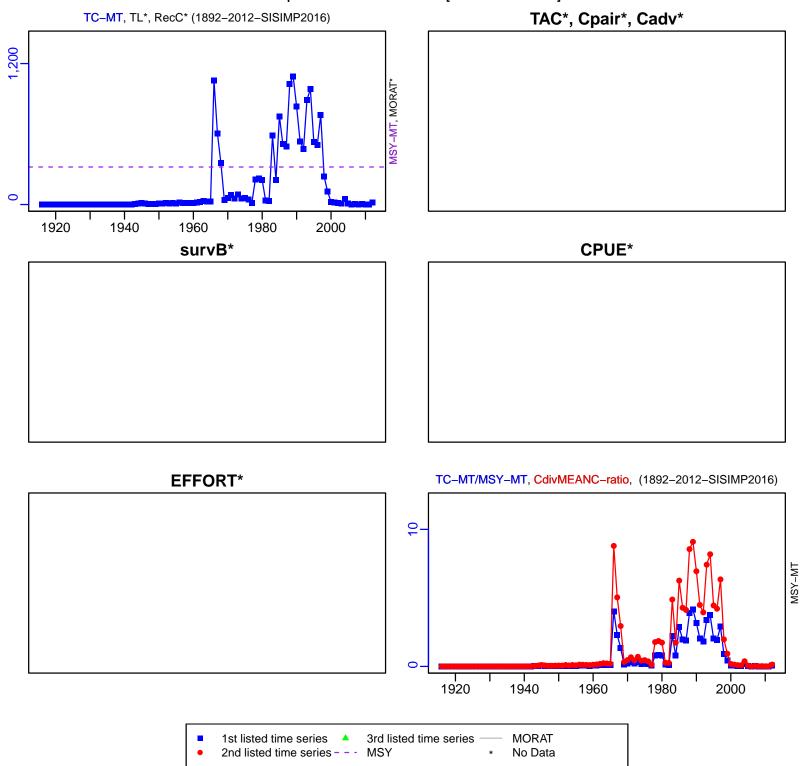


Start Year • End Year * No Data

Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]



Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]



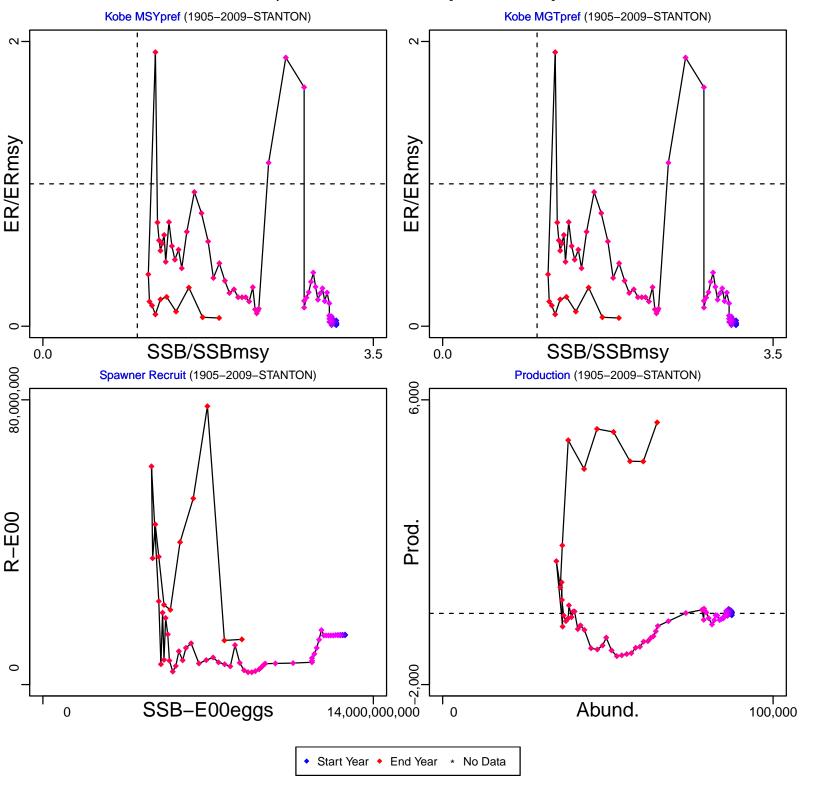
Splitnose rockfish Pacific Coast [SNROCKPCOAST]

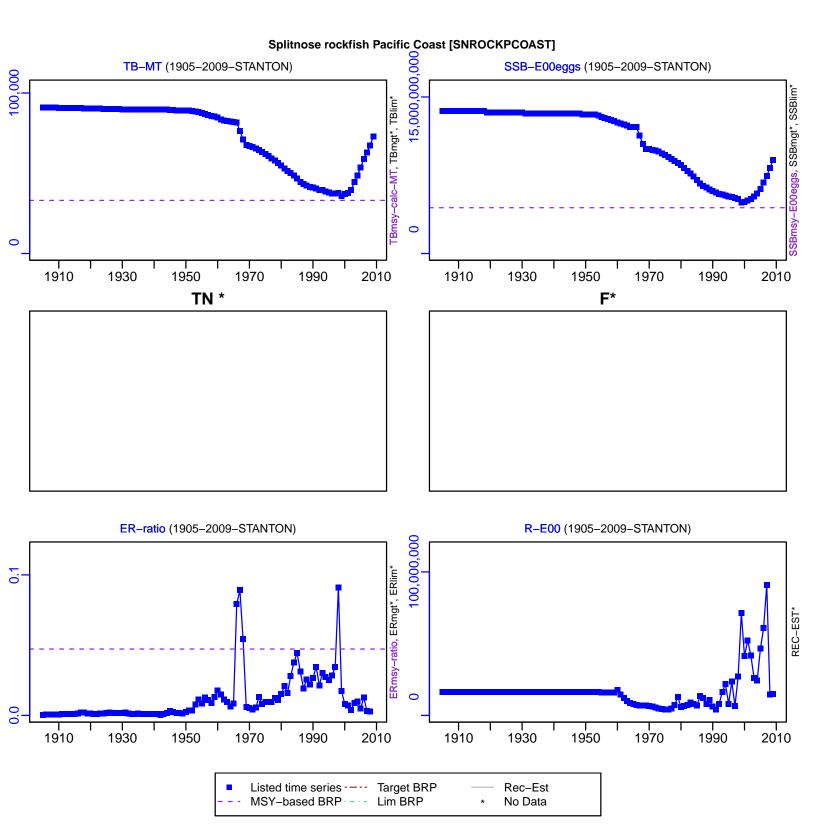
Metadata			
Scientific Name	Sebastes diploproa		
Current Assess ID	NWFSC-SNROCKPCOAST-1905-2009-STANTON		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2009		

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	-	-	-

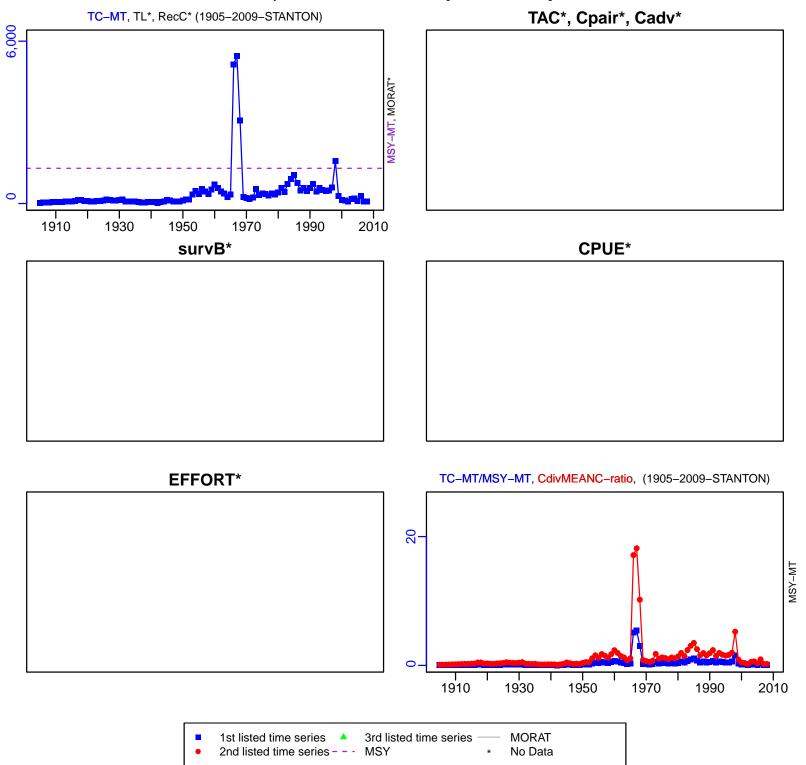
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	70,200	-	4+
SSB	SSB-E00eggs	2009	8.43×10^{9}	Females	-
TN	-	-	-	-	-
R	R-E00	2009	12,700,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0.002	-	-
TC	TC-MT	2009	66		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.203		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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



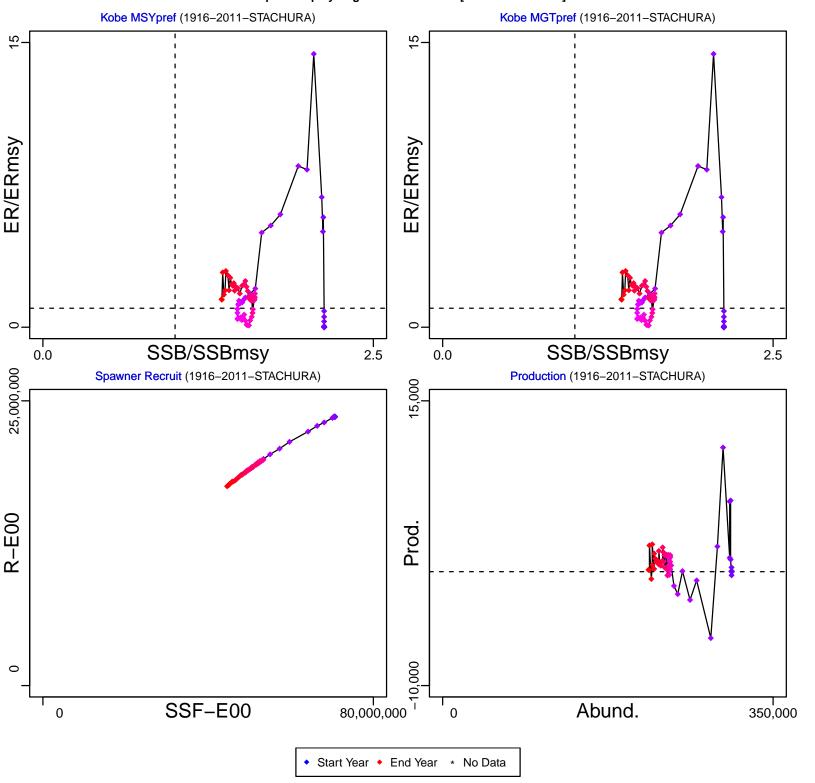
Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

Metadata			
Scientific Name	Squalus suckleyi		
Current Assess ID	NWFSC-SPSDOGPCOAST-1916-2011-STACHURA		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011		

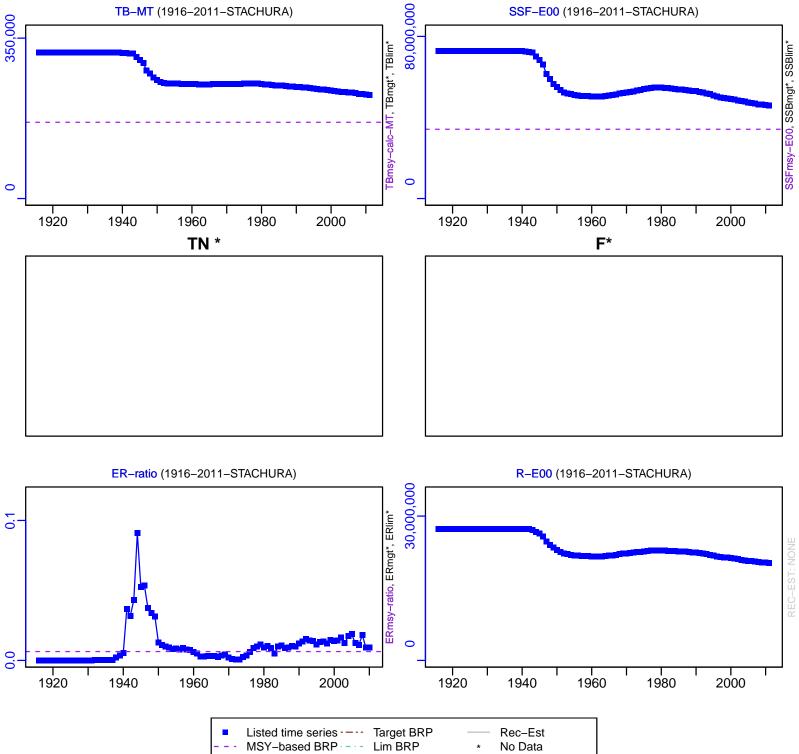
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	160,000	
SSBmsy	SSFmsy-E00	2011	33,229,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2011	0.005	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	304,105	
SSB0	-	-	-	
MSY	MSY-MT	2011	848	
М	M-1/yr	2011	0.064	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	217,000	-	1+
SSB	SSF-E00	2011	44,600,000	Females	35.5+
TN	-	-	-	-	-
R	R-E00	2011	17,500,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2011	0.008	-	-
TC	TC-MT	2011	1160		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.356		
SSB/SSBmsy	SSF-E00/SSFmsy-E00	2011	1.342		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	1.472		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

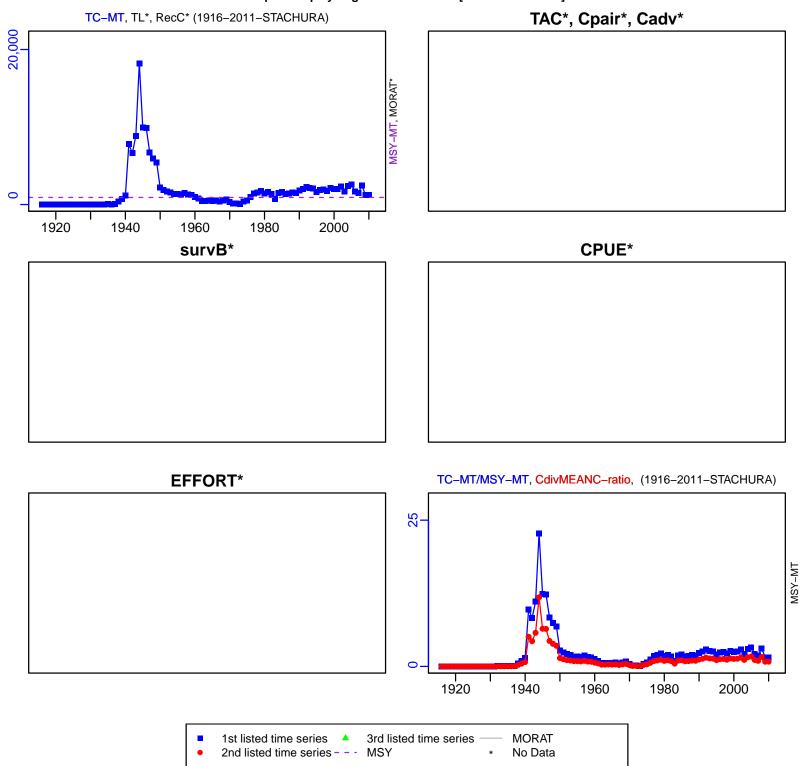






No Data

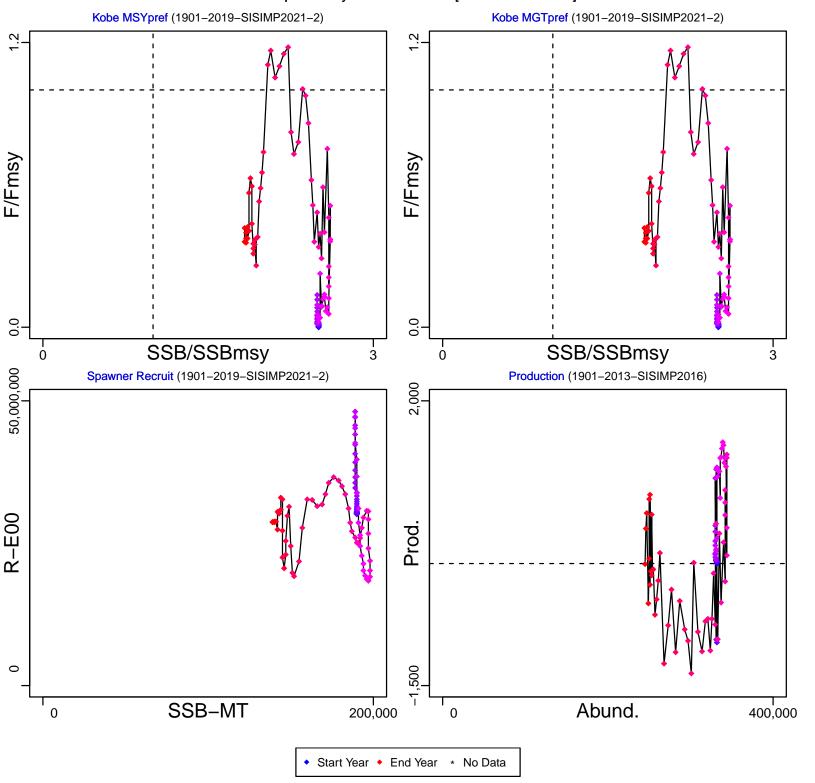
Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

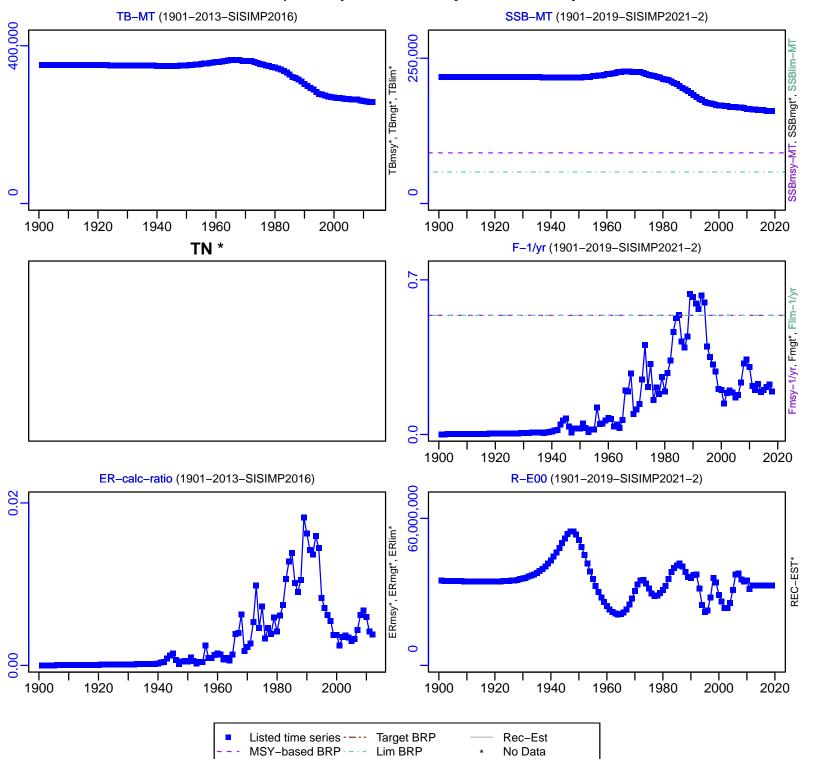


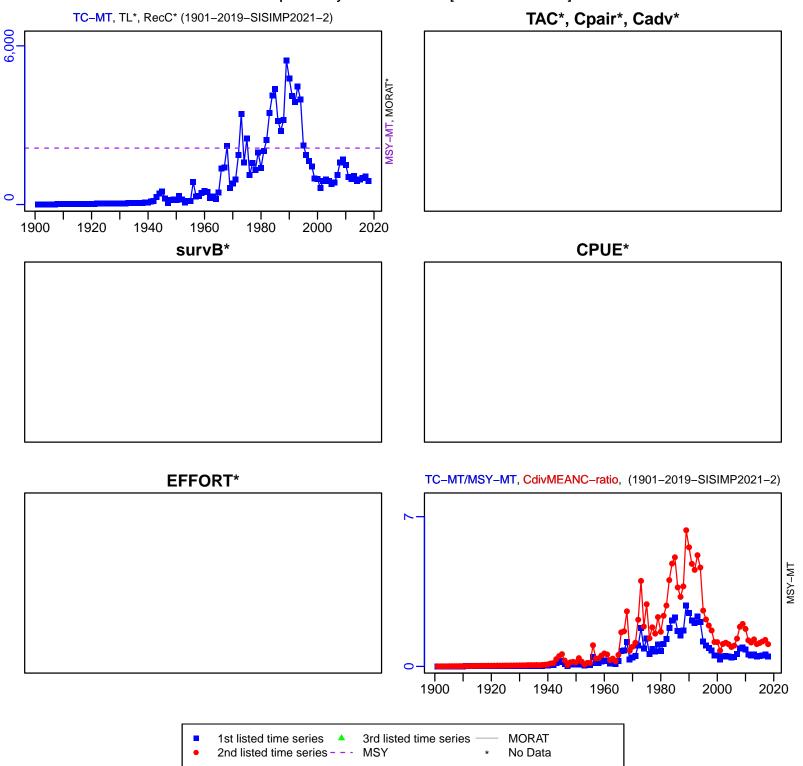
Metadata			
Scientific Name	Sebastolobus alascanus		
Current Assess ID	NWFSC-SSTHORNHPCOAST-1901-2019-SISIMP2021-2		
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2005, 2013, 2019		

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	-	-	-		



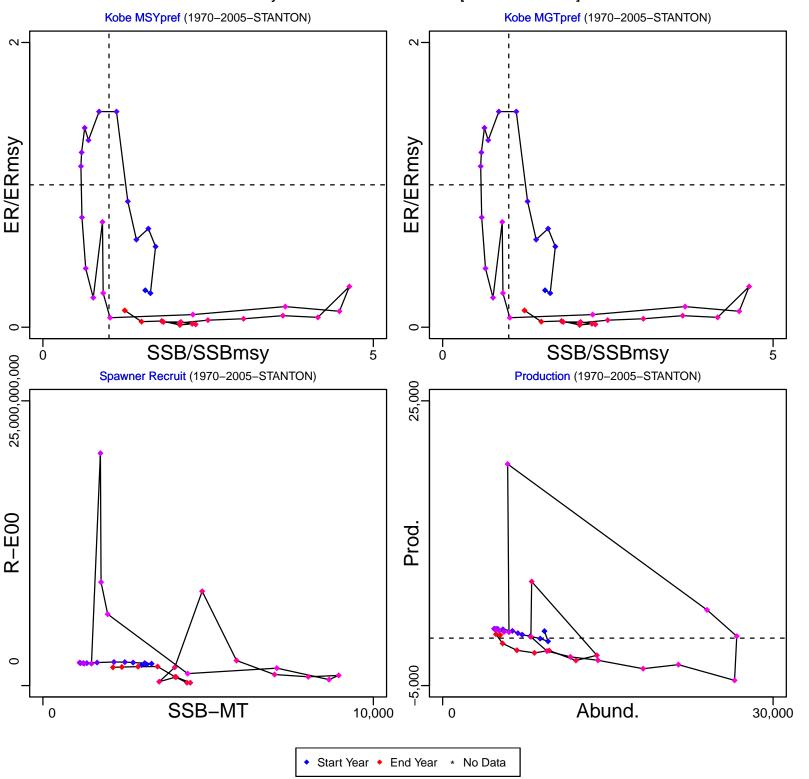


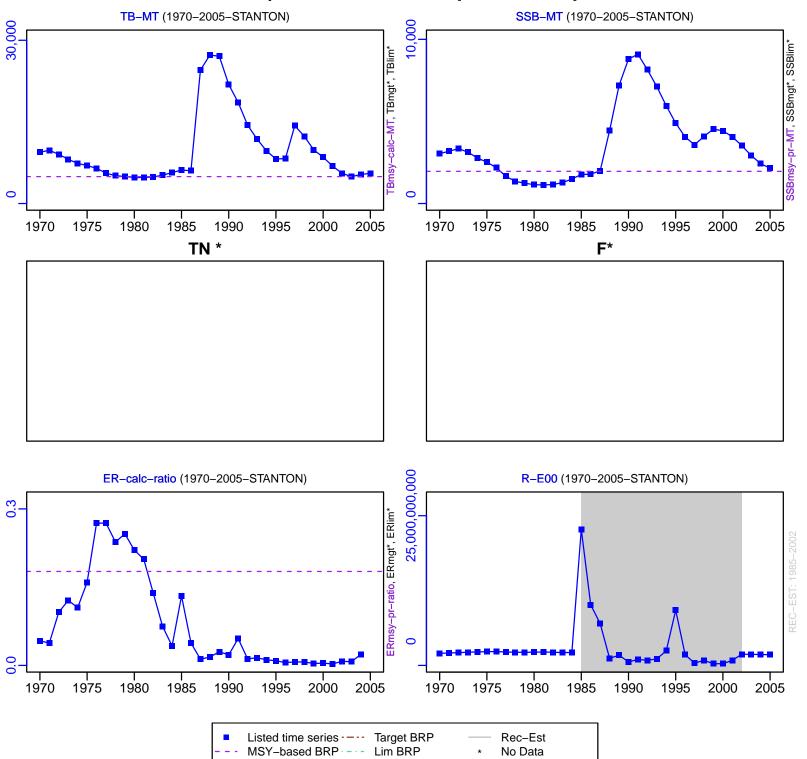


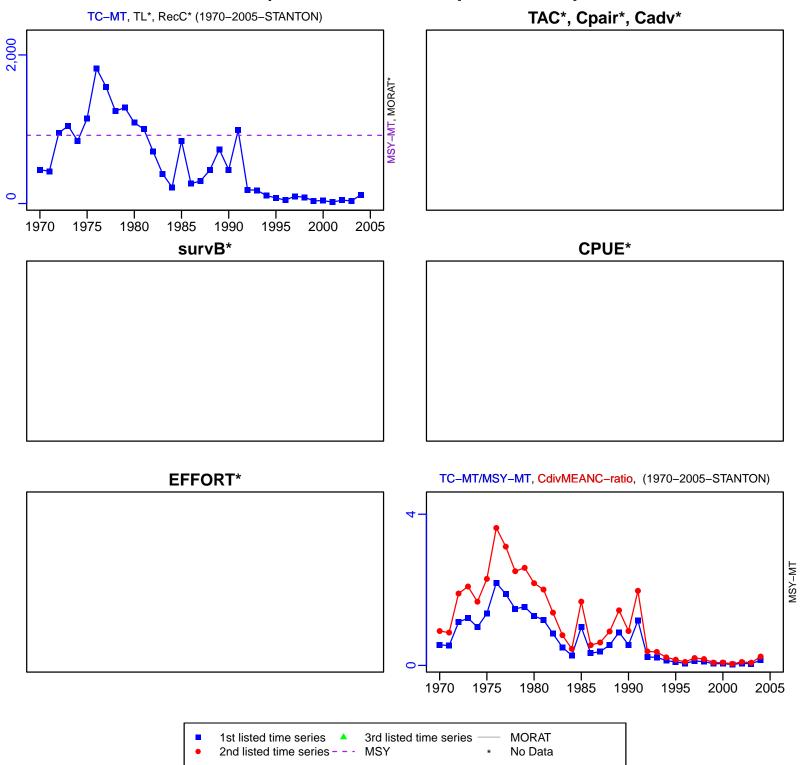
Metadata			
Scientific Name	Platichthys stellatus		
Current Assess ID	SWFSC-STFLOUNNPCOAST-1970-2005-STANTON		
Area Northern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2005		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2005	4840
SSBmsy	SSBmsy-pr-MT	2005	1930
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2005	0.169
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	12,102
SSB0	SSB0-MT	2005	4824
MSY	MSY-MT	2005	818
M	M-1/yr	2005	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	5440	-	2+
SSB	SSB-MT	2005	2120	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	1.6×10^{9}	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2005	0.02	-	-
TC	TC-MT	2005	104		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.124		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2005	1.098		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-pr-ratio	2005	0.118		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



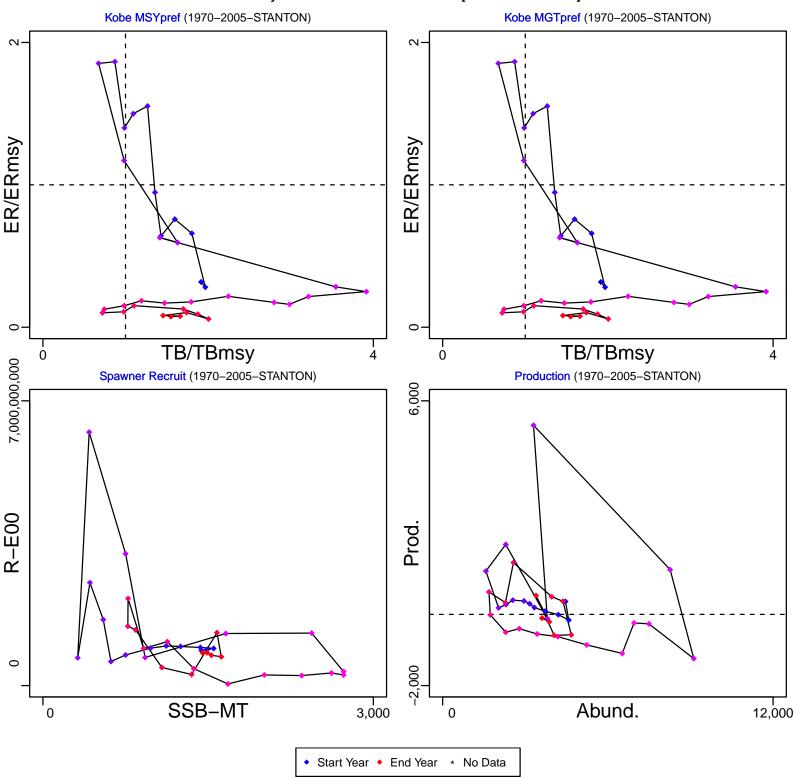


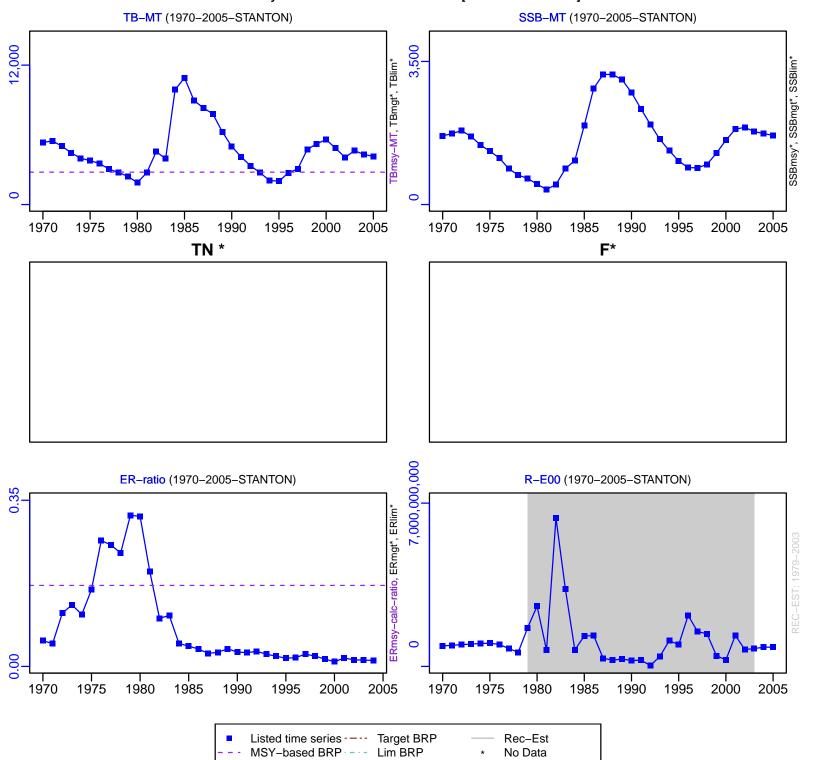


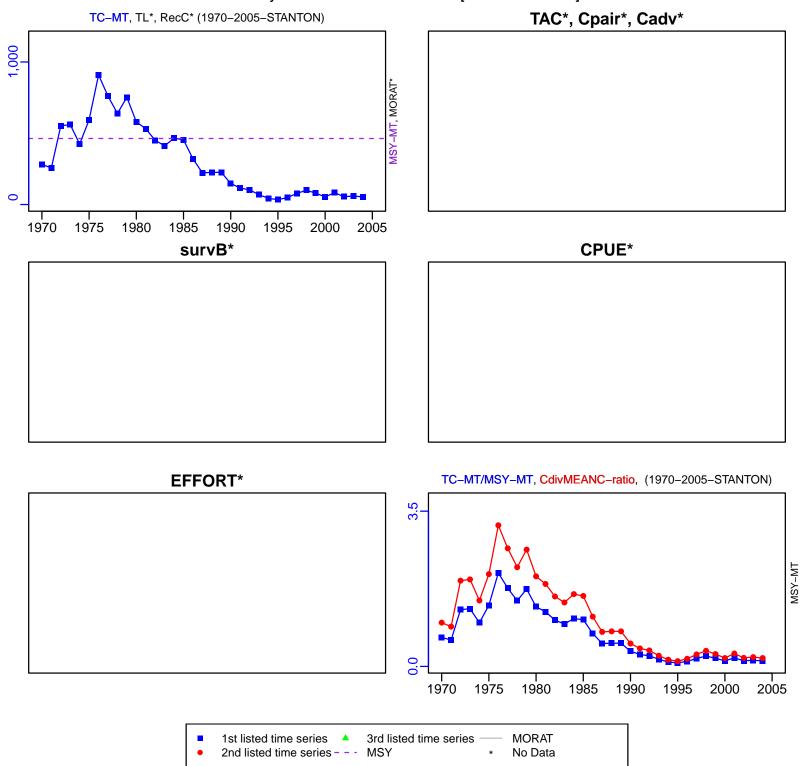
Metadata			
Scientific Name	Platichthys stellatus		
Current Assess ID	SWFSC-STFLOUNSPCOAST-1970-2005-STANTON		
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2005	2329	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2005	0.17	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	5854	
SSB0	SSB0-MT	2005	2334	
MSY	MSY-MT	2005	396	
М	M-1/yr	2005	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	3460	-	2+
SSB	SSB-MT	2005	1450	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	8.07×10^{8}	-	0
F	-	-	-	-	-
ER	ER-ratio	2005	0.013	-	-
TC	TC-MT	2005	46		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.485		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2005	0.075		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



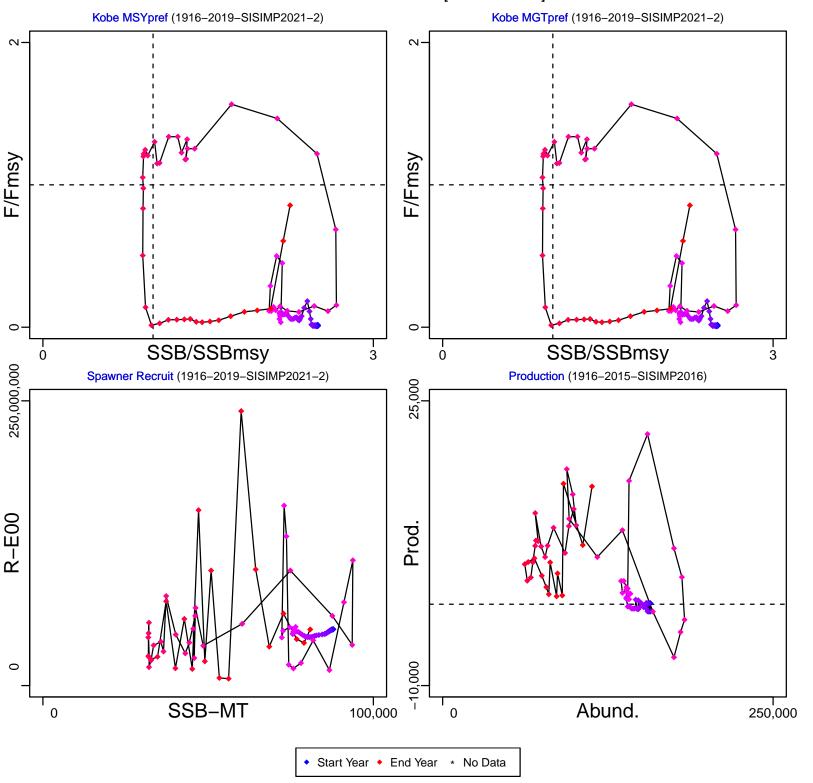


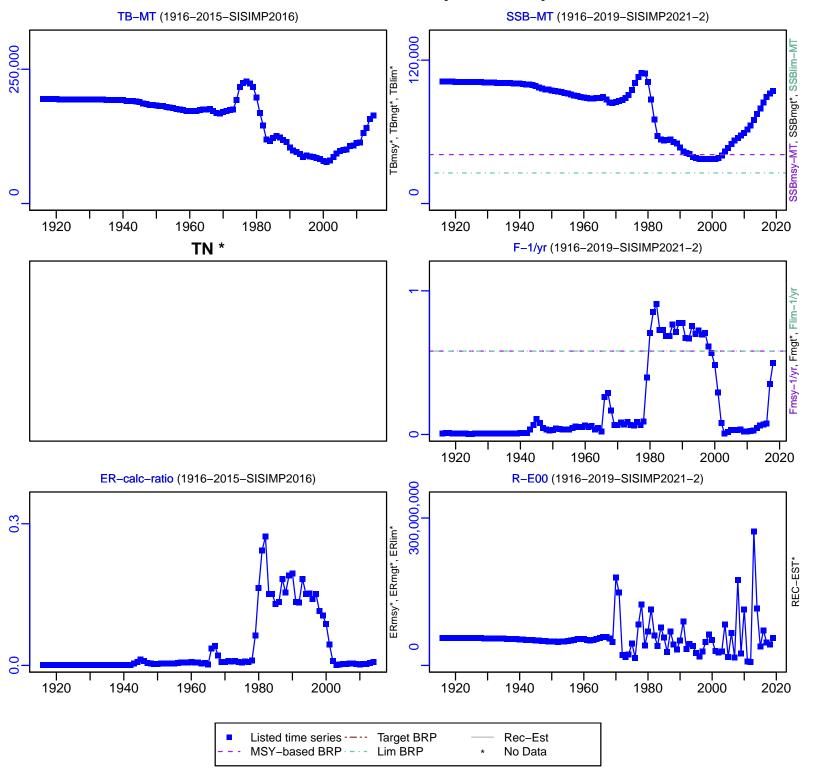


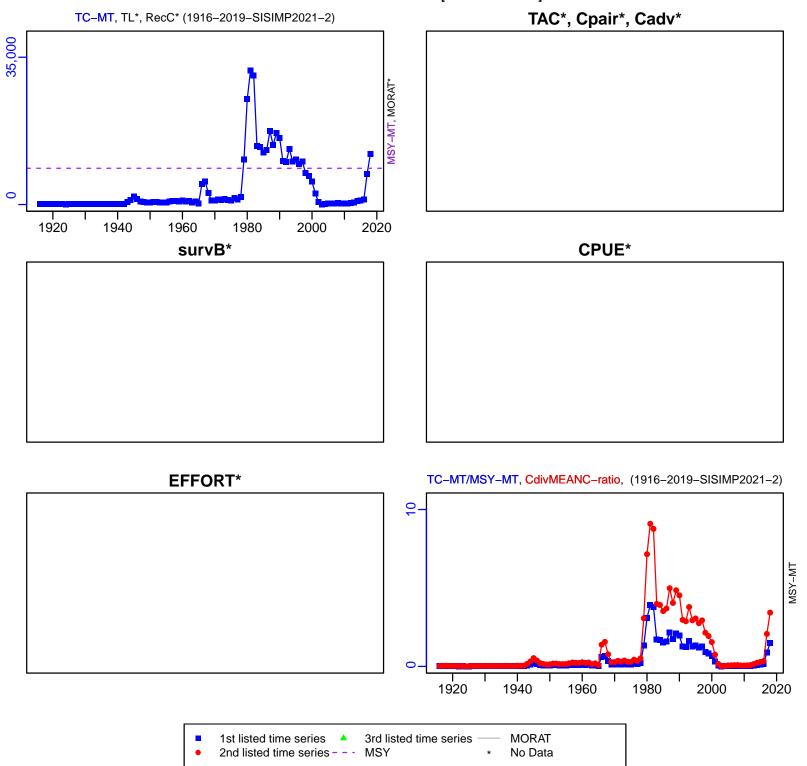
Metadata			
Scientific Name	Sebastes entomelas		
Current Assess ID	NWFSC-WROCKPCOAST-1916-2019-SISIMP2021-2		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011, 2015, 2019		

	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	-	-	-		



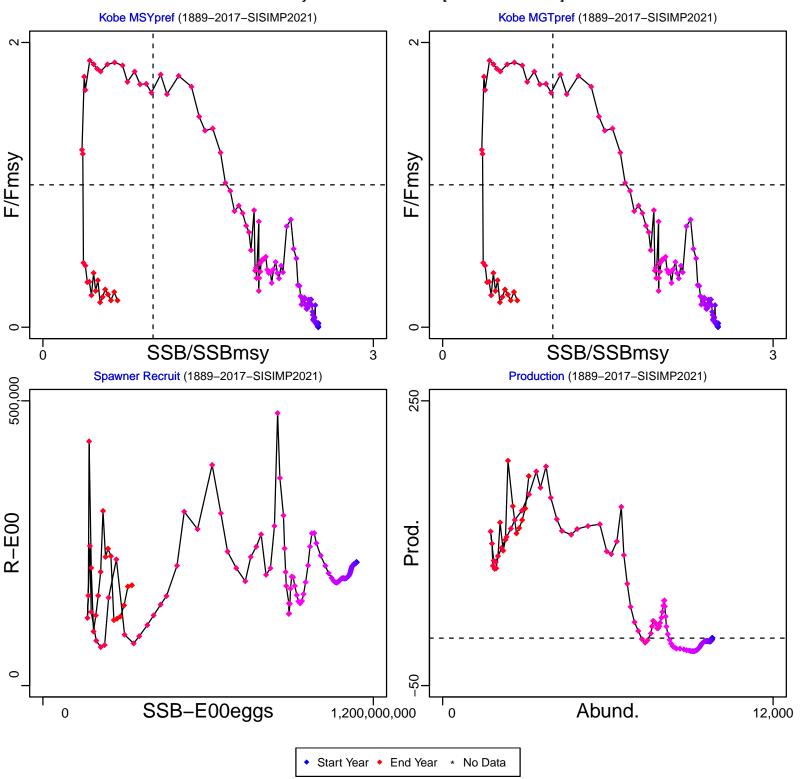


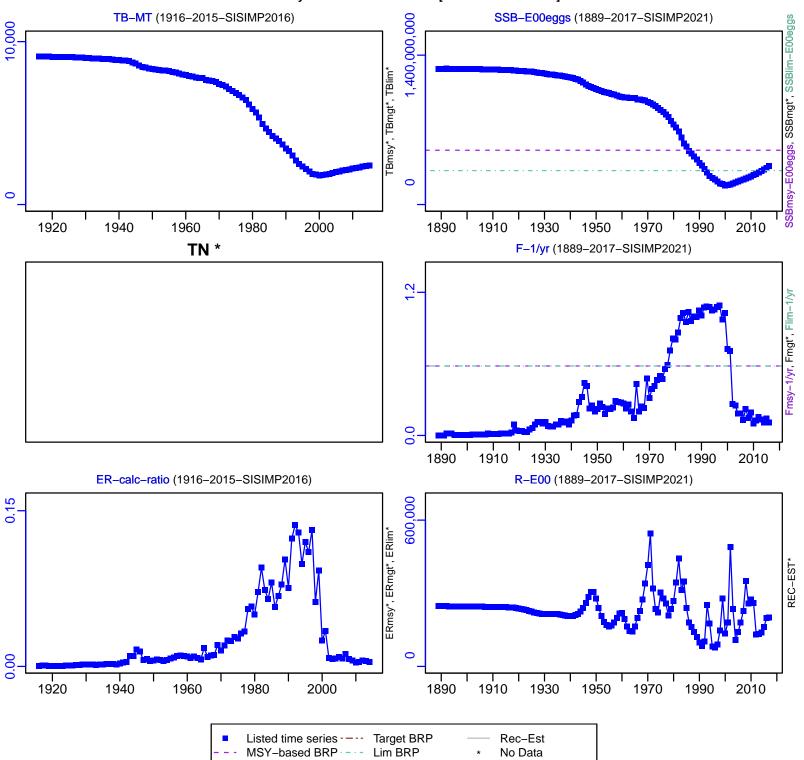


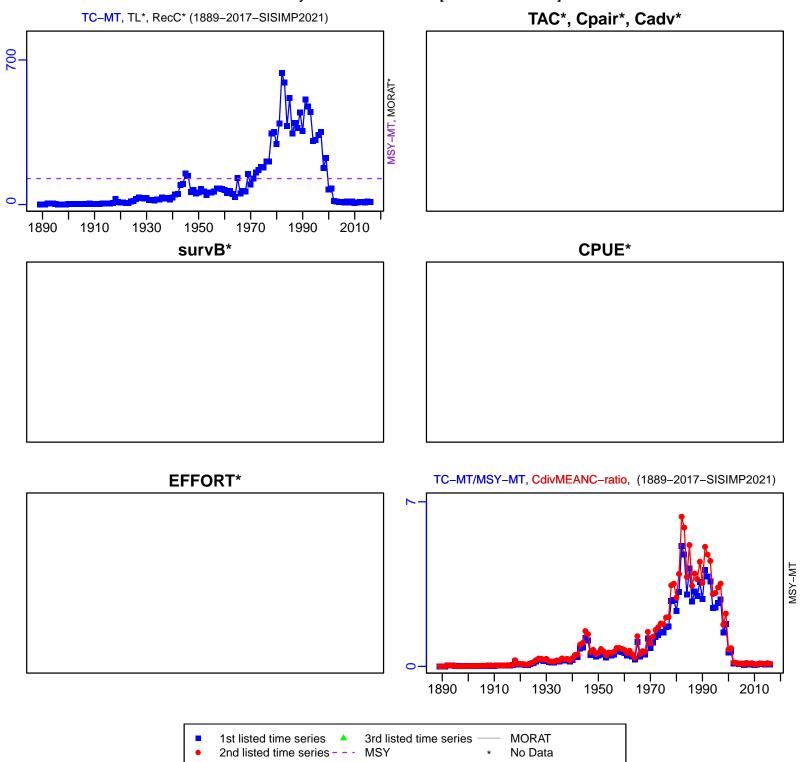
Metadata			
Scientific Name	Sebastes ruberrimus		
Current Assess ID	NWFSC-YEYEROCKPCOAST-1889-2017-SISIMP2021		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2017, 2011, 2015		

	Reference Points				
Туре	ID	Asmt Year	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	-	-	-			







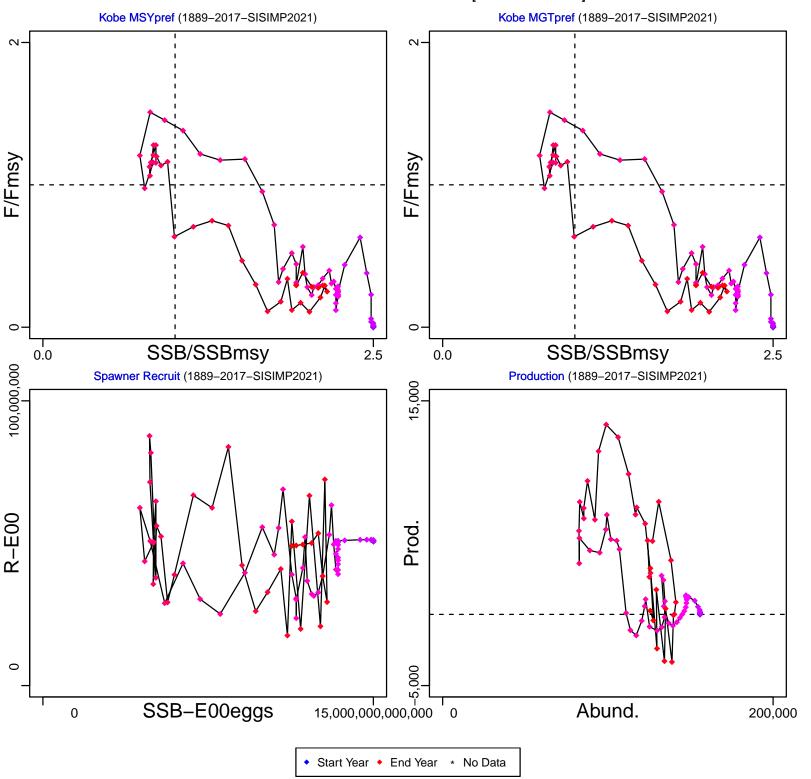
Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

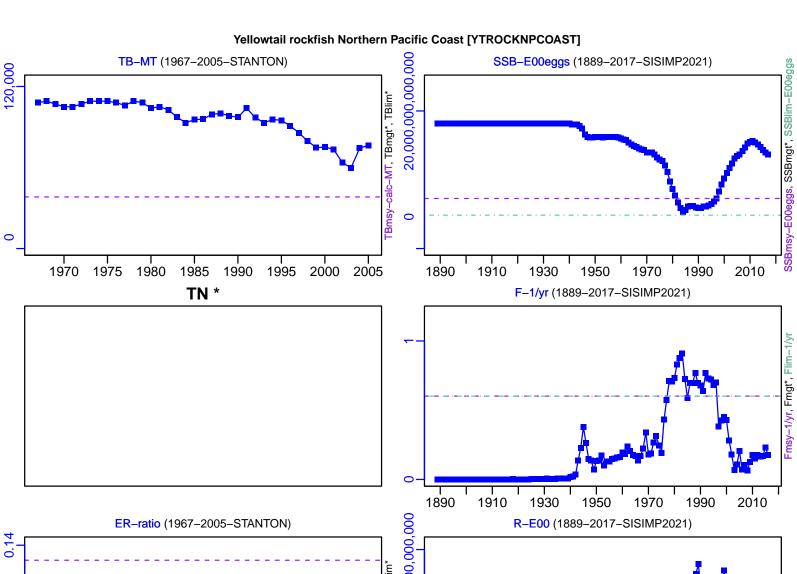
Metadata			
Scientific Name	Sebastes flavidus		
Current Assess ID NWFSC-YTROCKNPCOAST-1889-2017-SISIMP2021			
Area Northern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2017, 2012, 2005		

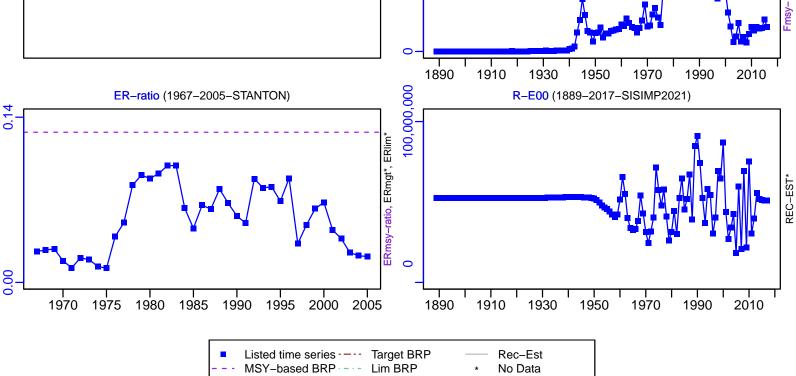
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2005	37,123	
SSBmsy	SSBmsy-E00eggs	2017	6×10^{12}	
Fmsy	Fmsy-1/yr	2017	0.5	
ERmsy	ERmsy-ratio	2005	0.126	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	120,024	
SSB0	SSB0-MT	2005	31,016	
MSY	MSY-MT	2017	5434	
M	M-1/yr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

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