# **US West Coast Stocks**

v4.40 (Jun-04-2018)

## Not present Present Preferred

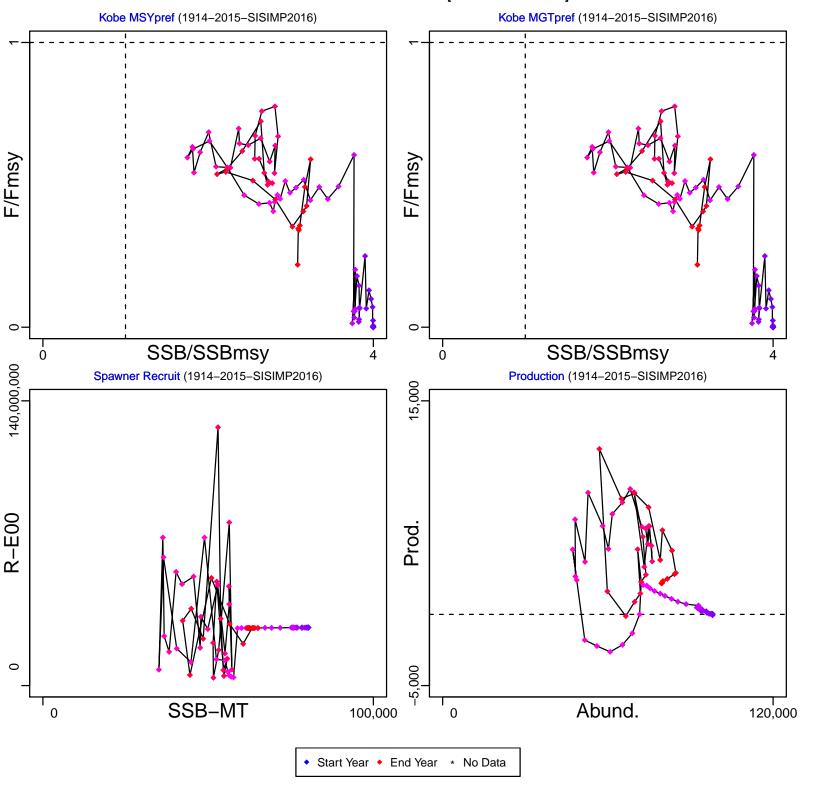
	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
ARFLOUNDPCOAST [Arrowtooth flounder Pacific Coast]	TB SSB	ER F	TB SSB	ER F
AUROCKPCOAST [Aurora rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
3. BGROCKPCOAST [Blackgill rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
4. BLACKROCKCAL [Black rockfish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

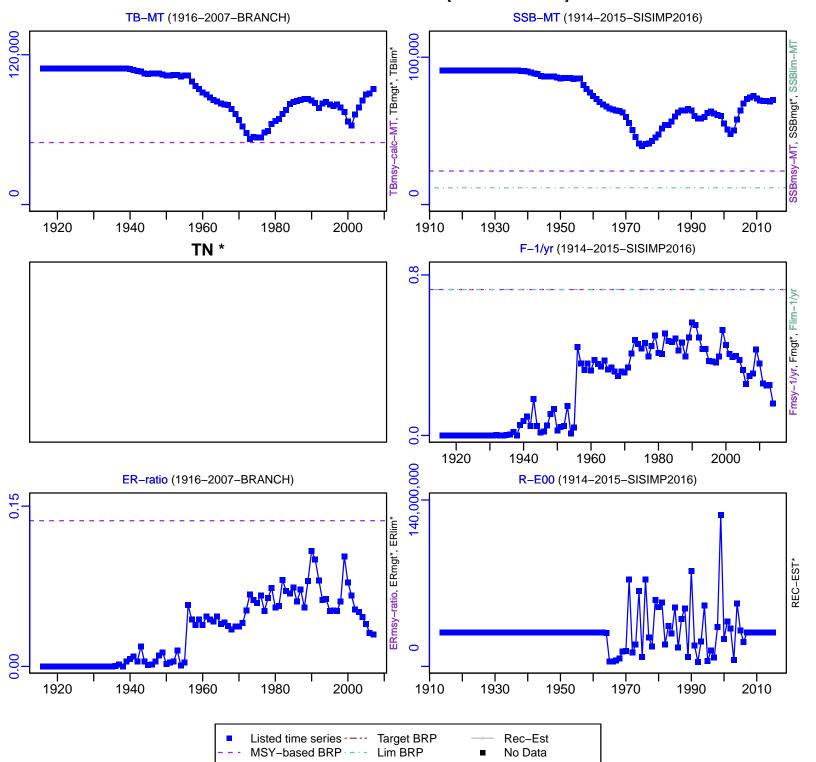
40. SABLEFPCOAST [Sablefish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
41. SARDPCOAST [Pacific sardine Pacific Coast]	TB SSB	ER F	TB SSB	ER F
42. SBELLYROCKPCOAST [Shortbelly rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
43. SHCROCKPCOAST [Sharpchin rockfish Pacific Coast]	TB SSB	ER F	TB SSB	ER F
44. SNROCKPCOAST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

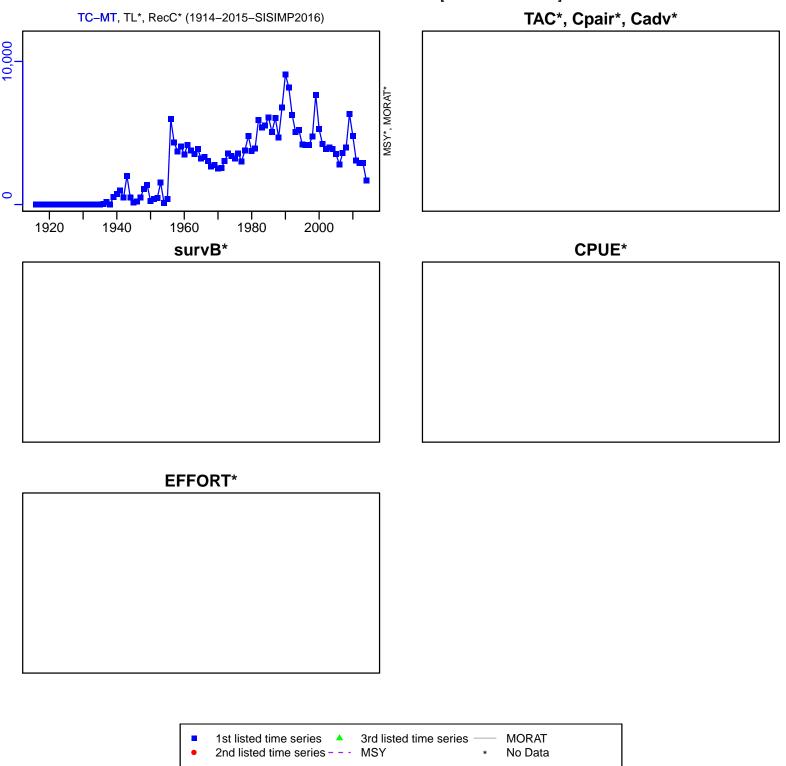
Metadata				
Scientific Name	Atheresthes stomias			
Current Assess ID	NWFSC-ARFLOUNDPCOAST-1914-2015-SISIMP2016			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2015, 2007			

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	44,591	
SSBmsy	SSBmsy-MT	2015	20,078	
Fmsy	Fmsy-1/yr	2015	0.7	
ERmsy	ERmsy-ratio	2007	0.131	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	80,313	
MSY	MSY-MT	2007	5844	
М	M-1/yr	2007	0.166	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2015	10,039	
Flim	Flim-1/yr	2015	0.7	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	79,800	-	3+
SSB	SSB-MT	2015	62,600	Females	-
TN	-	-	-	-	-
R	R-E00	2015	28,300,000	-	0
F	F-1/yr	2015	0.154	-	-
ER	ER-calc-ratio	2015	0.018	-	-
TC	TC-MT	2015	1440		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.868		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	3.119		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.219		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.218		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



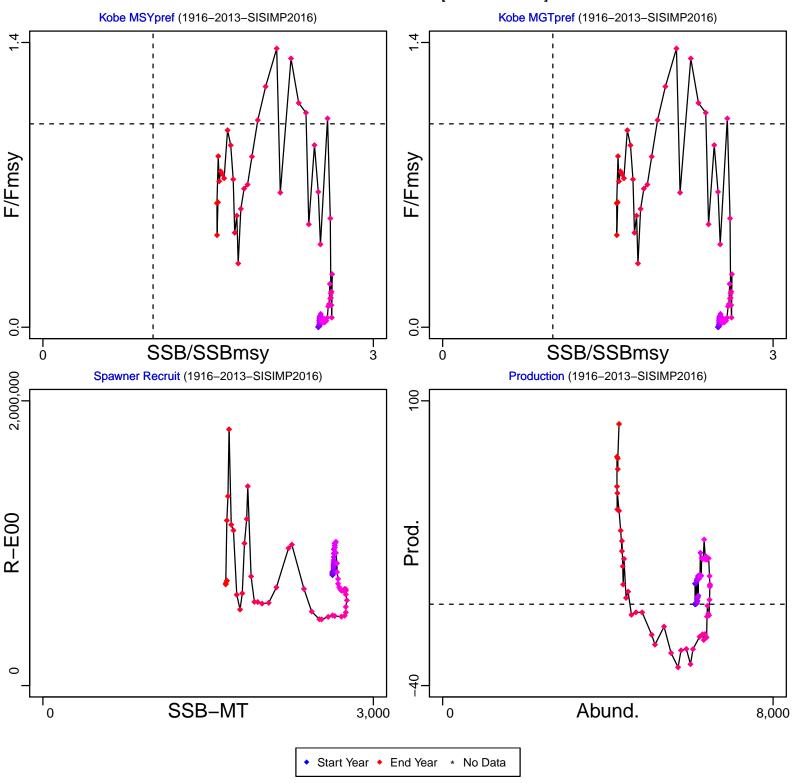


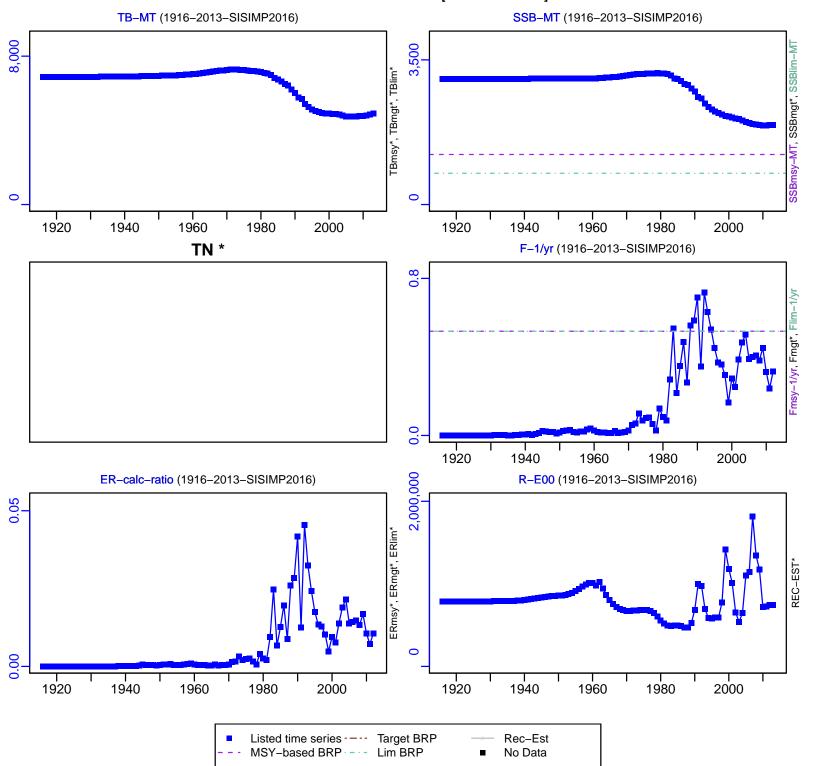


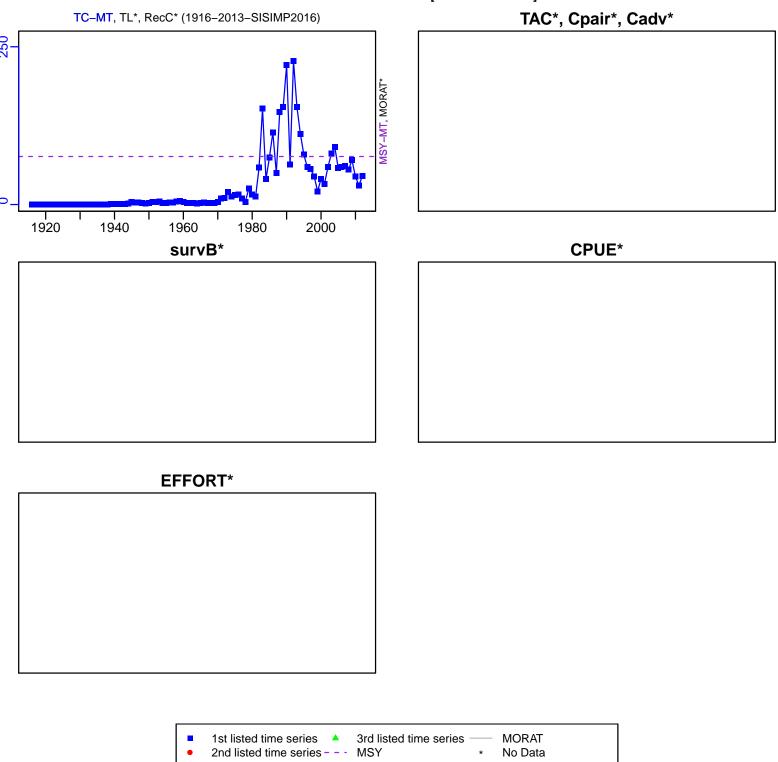
Metadata				
Scientific Name	Sebastes aurora			
Current Assess ID	NWFSC-AUROCKPCOAST-1916-2013-SISIMP2016			
Area	Pacific Coast			
Management Authority National Marine Fisheries Service, US national management				
Assessor Northwest Fisheries Science Center				
Asmts in RAM	2013			

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	1.594		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.614		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



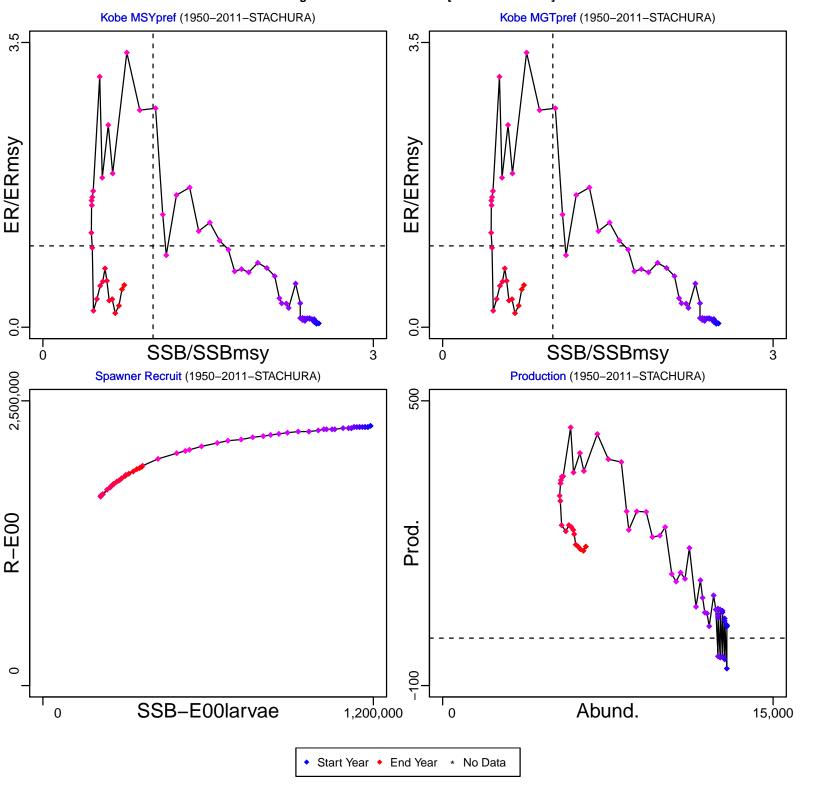


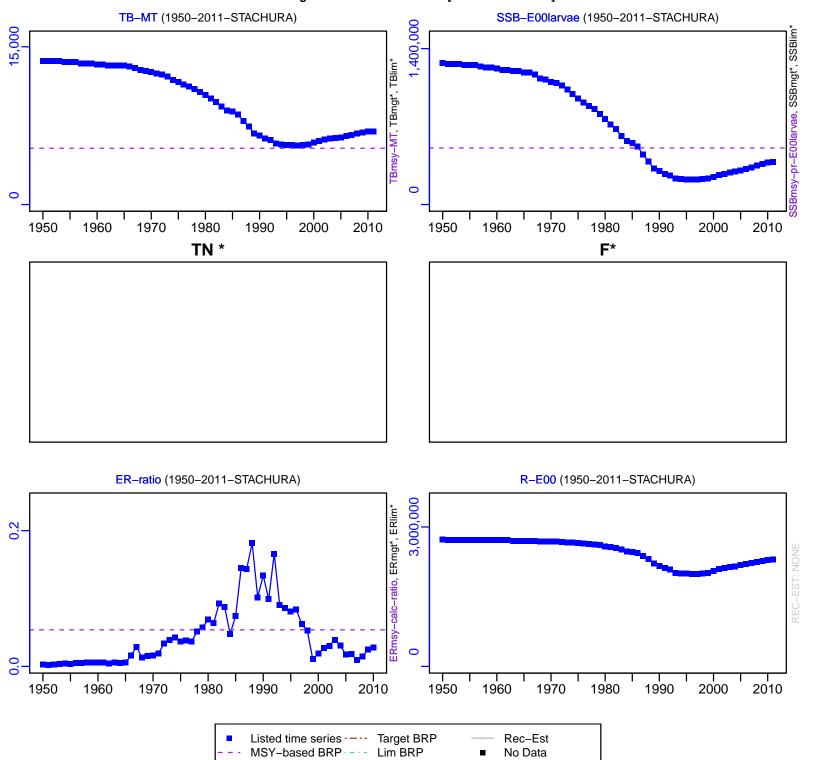


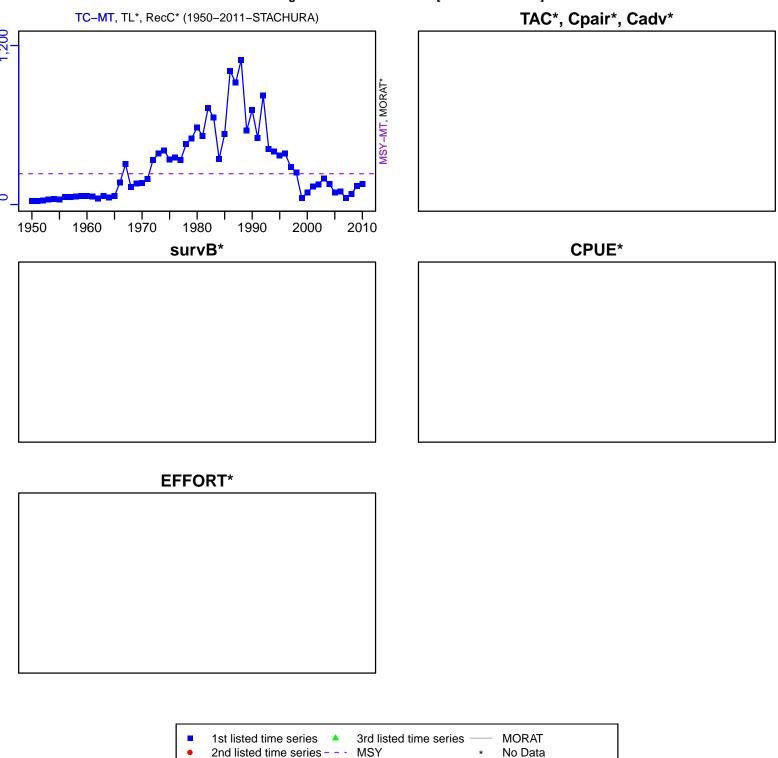
Metadata			
Scientific Name	Sebastes melanostomus		
Current Assess ID	NWFSC-BGROCKPCOAST-1950-2011-STACHURA		
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2011		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2011	5063		
SSBmsy	SSBmsy-pr-E00larvae	2011	475,100		
Fmsy	-	-	-		
ERmsy	ERmsy-calc-ratio	2011	0.044		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	TB0-MT	2011	12,927		
SSB0	SSB0-E00larvae	2011	1,187,800		
MSY	MSY-MT	2011	222		
M	M-1/yr	2011	0.07		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	6590	-	0+
SSB	SSB-E00larvae	2011	359,000	Females	20+
TN	-	-	-	-	-
R	R-E00	2011	1,920,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2011	0.023	Both	1+
TC	TC-MT	2011	149		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.302		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-pr-E00larvae	2011	0.756		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	0.518		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



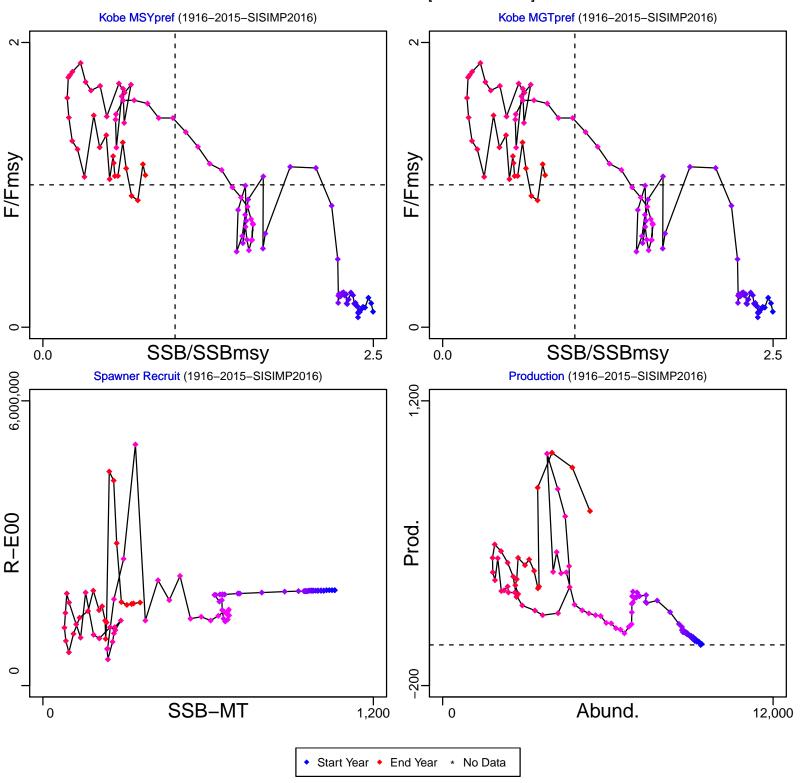


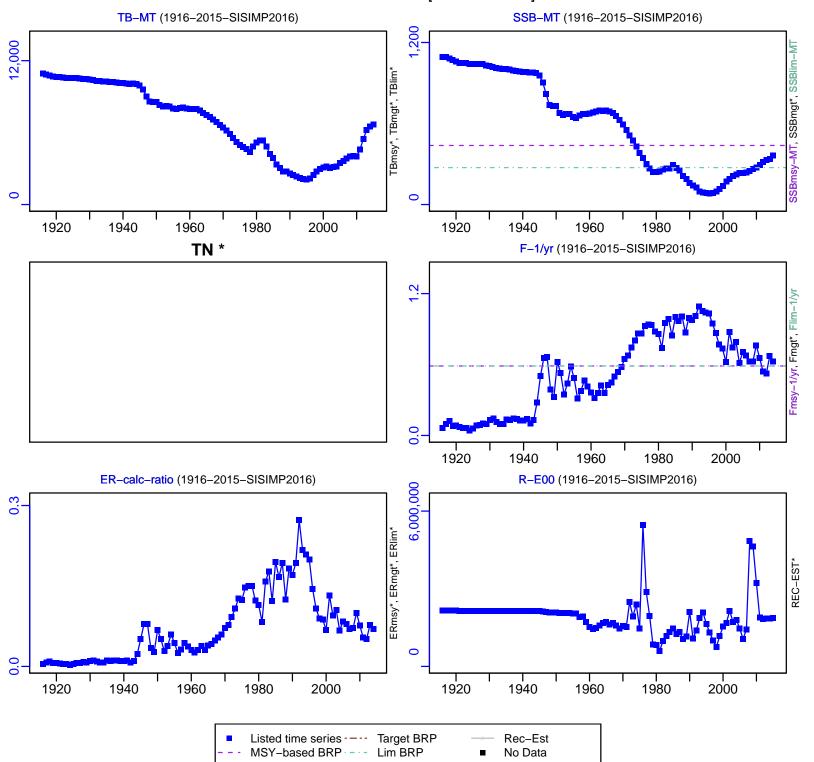


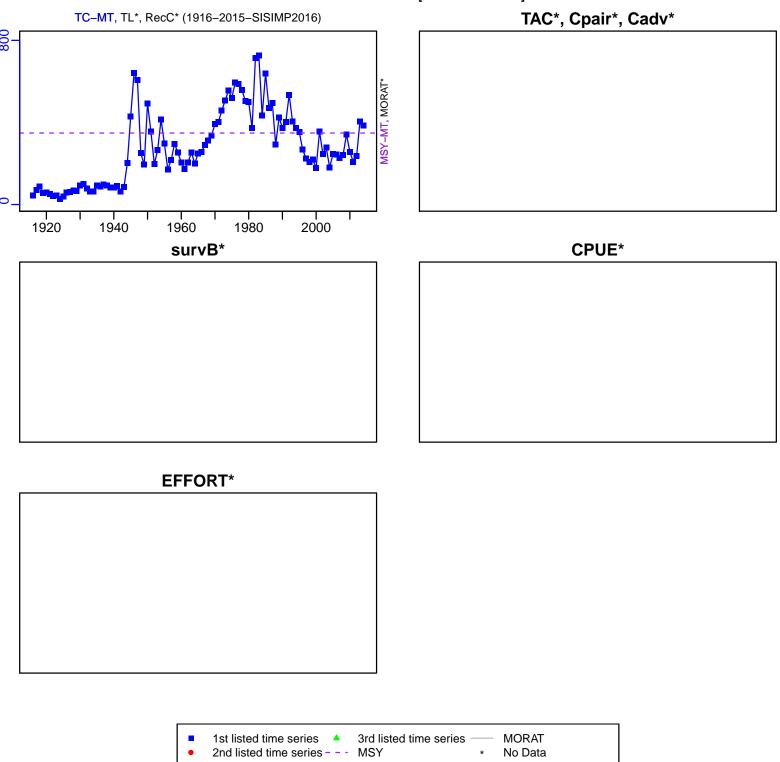
Metadata				
Scientific Name	Sebastes melanops			
Current Assess ID	SWFSC-BLACKROCKCAL-1916-2015-SISIMP2016			
Area	California			
Management Authority National Marine Fisheries Service, US national manageme				
Assessor	Southwest Fisheries Science Center			
Asmts in RAM	2015			

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	425
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	343
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	266
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5770	-	3+
SSB	SSB-MT	2015	353	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	1,750,000	-	0
F	F-1/yr	2015	0.534	-	-
ER	ER-calc-ratio	2015	0.068	-	-
TC	TC-MT	2015	380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.831		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.068		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



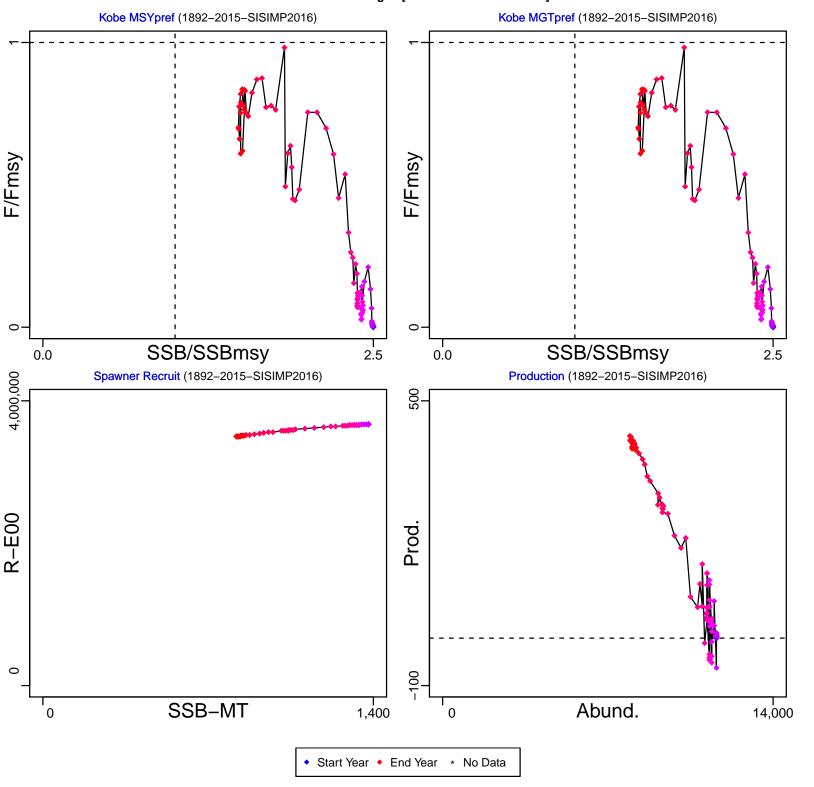


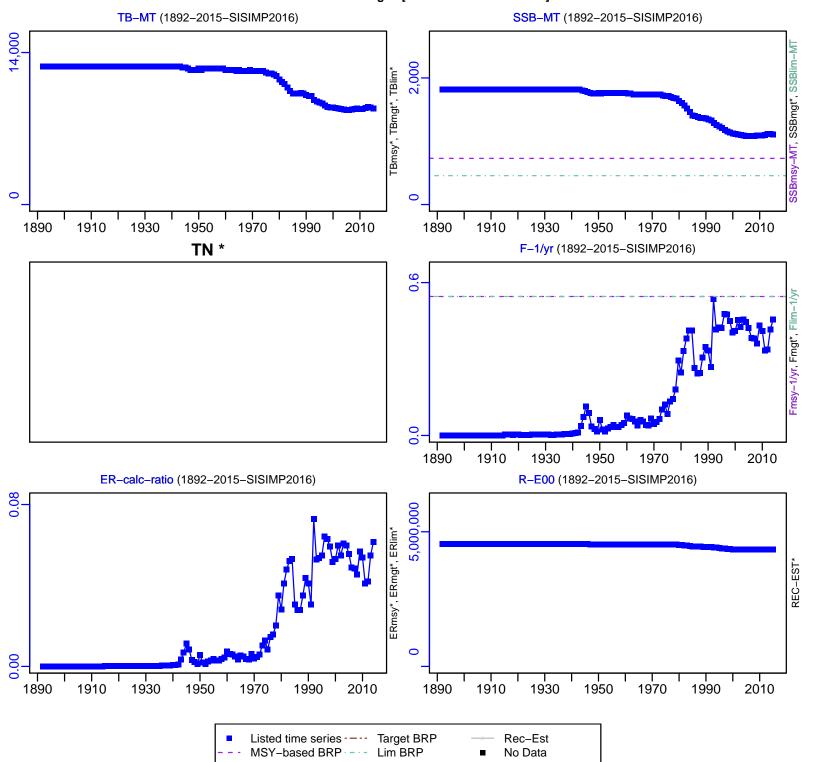


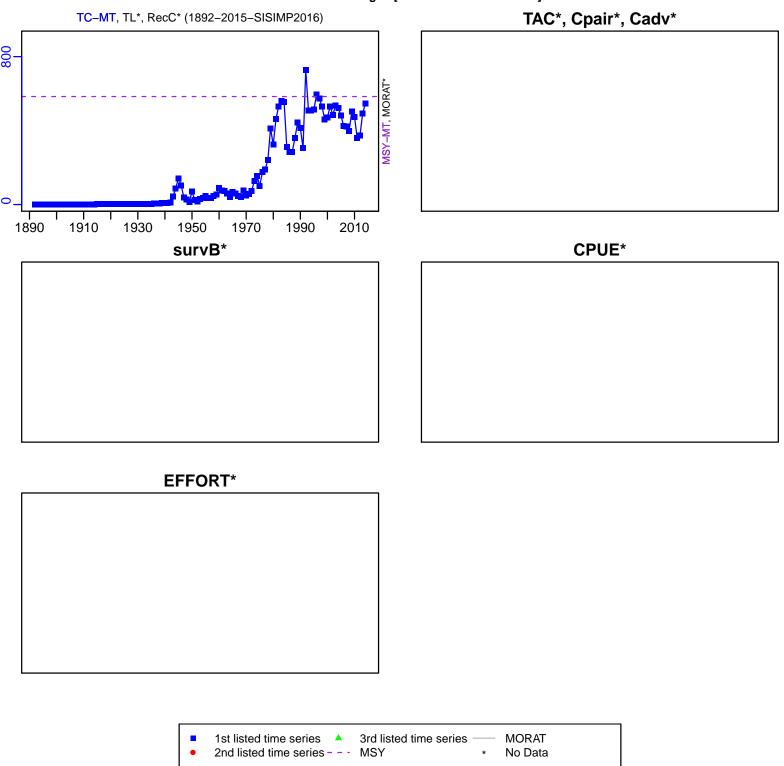
Metadata		
Scientific Name	Sebastes melanops	
Current Assess ID NWFSC-BLACKROCKORECOAST-1892-2015-SISIMP2016		
Area	Oregon Coast	
Management Authority National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2015	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	554
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	518
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	346
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	8060	-	3+
SSB	SSB-MT	2015	838	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	3,510,000	-	0
F	F-1/yr	2015	0.417	-	-
ER	ER-calc-ratio	2015	0.06	-	-
TC	TC-MT	2015	485		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.514		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.834		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



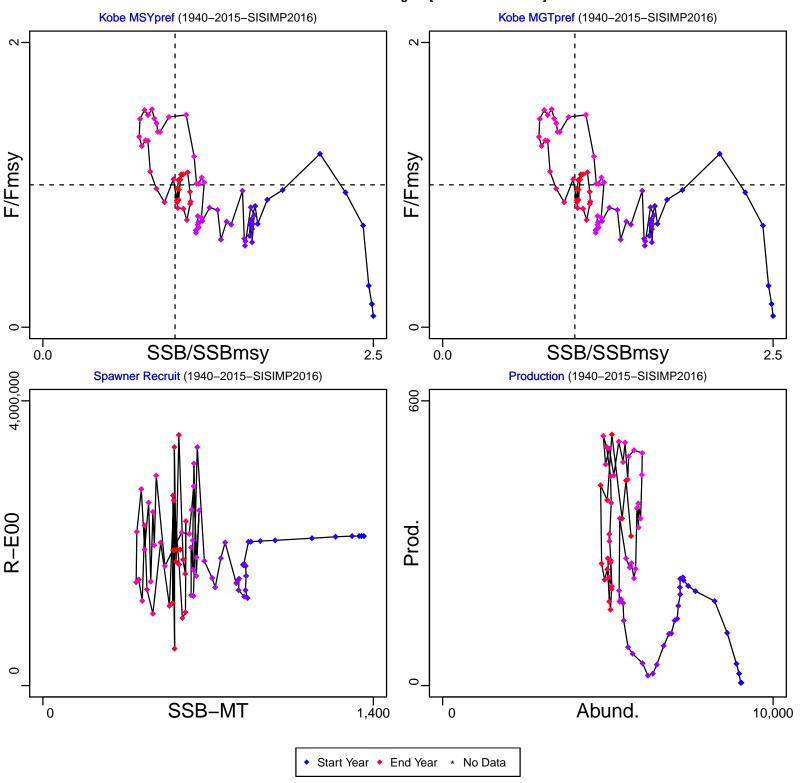


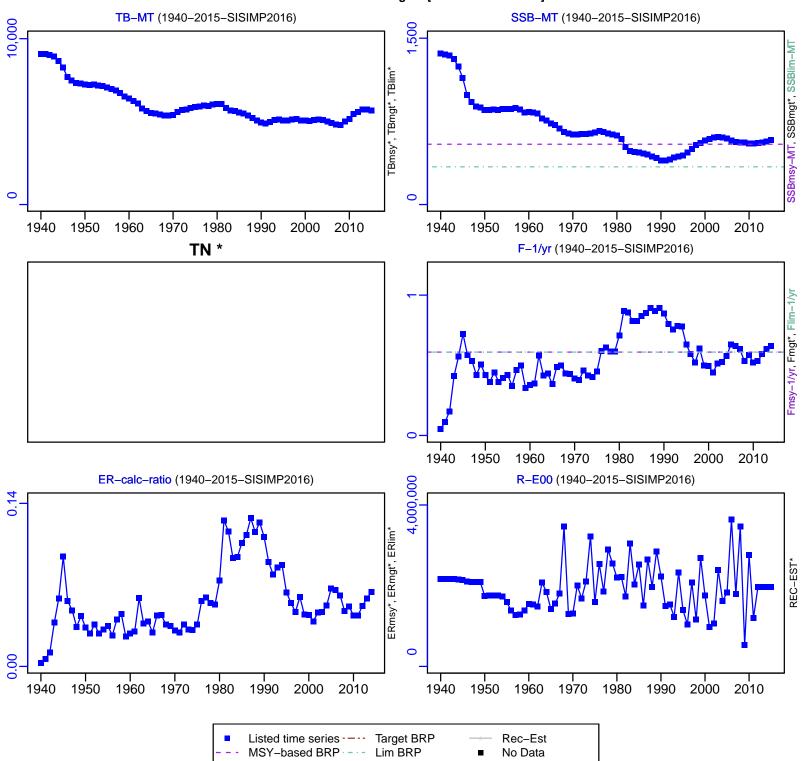


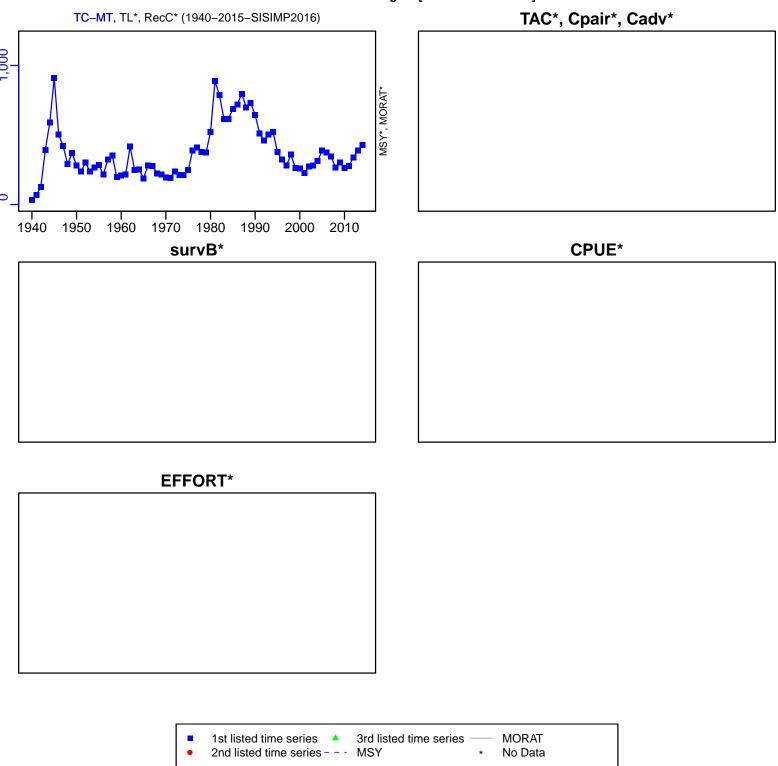
Metadata			
Scientific Name	Sebastes melanops		
Current Assess ID	Current Assess ID NWFSC-BLACKROCKWASH-1940-2015-SISIMP2016		
Area	Washington		
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2015		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	542
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	339
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5640	-	3+
SSB	SSB-MT	2015	582	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	1,910,000	-	0
F	F-1/yr	2015	0.536	-	-
ER	ER-calc-ratio	2015	0.063	-	-
TC	TC-MT	2015	356		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.074		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.073		
ER/ERmsy	•	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	•	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



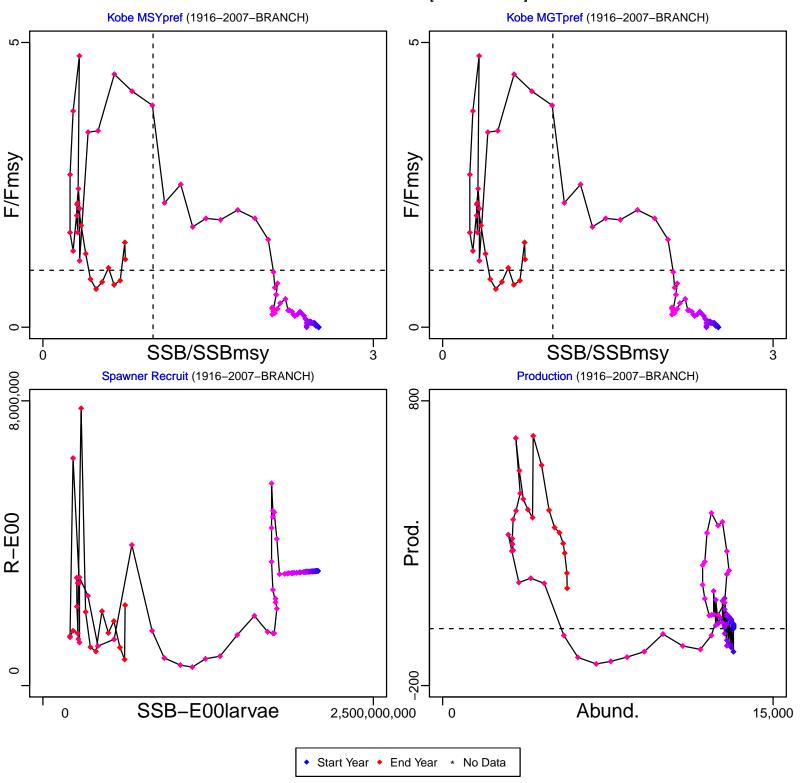


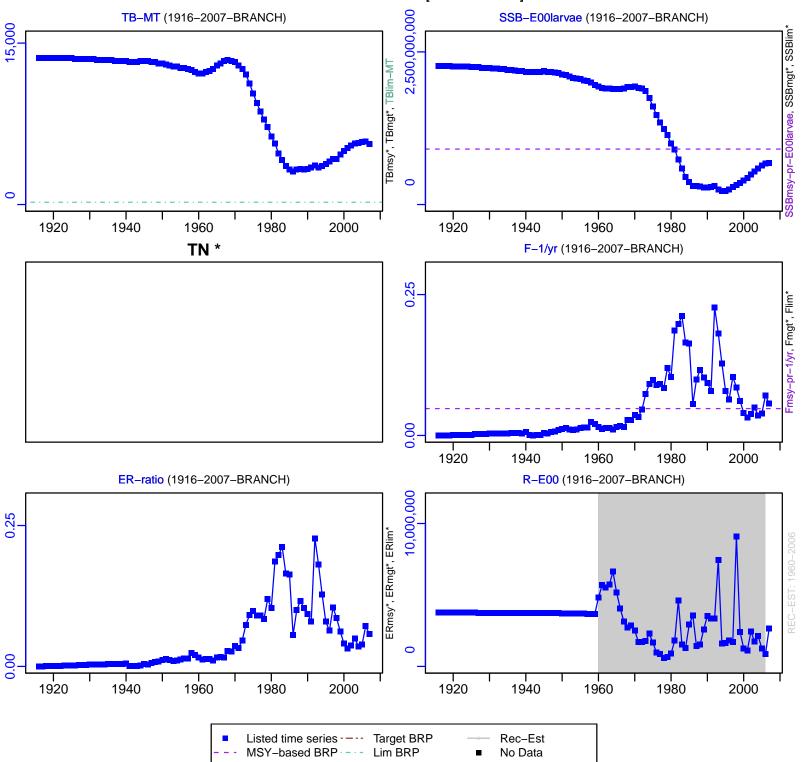


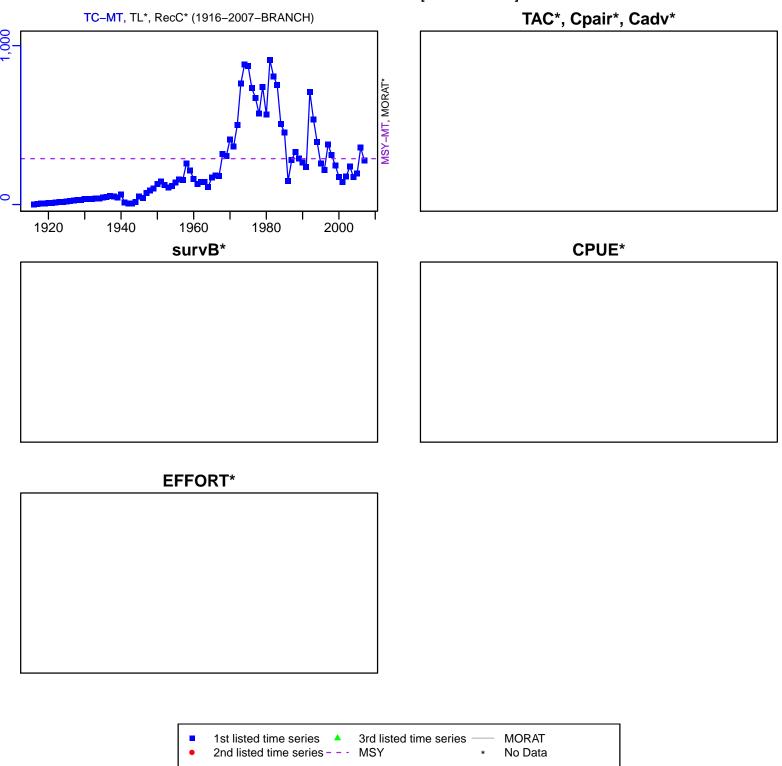
Metadata		
Scientific Name	Sebastes mystinus	
Current Assess ID NWFSC-BLUEROCKCAL-1916-2007-BRANCH		
Area	California	
Management Authority National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center		
Asmts in RAM	2007	

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

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	5450	-	1+
SSB	SSB-E00larvae	2007	$6.22 \times 10^{8}$	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	-	-	-		





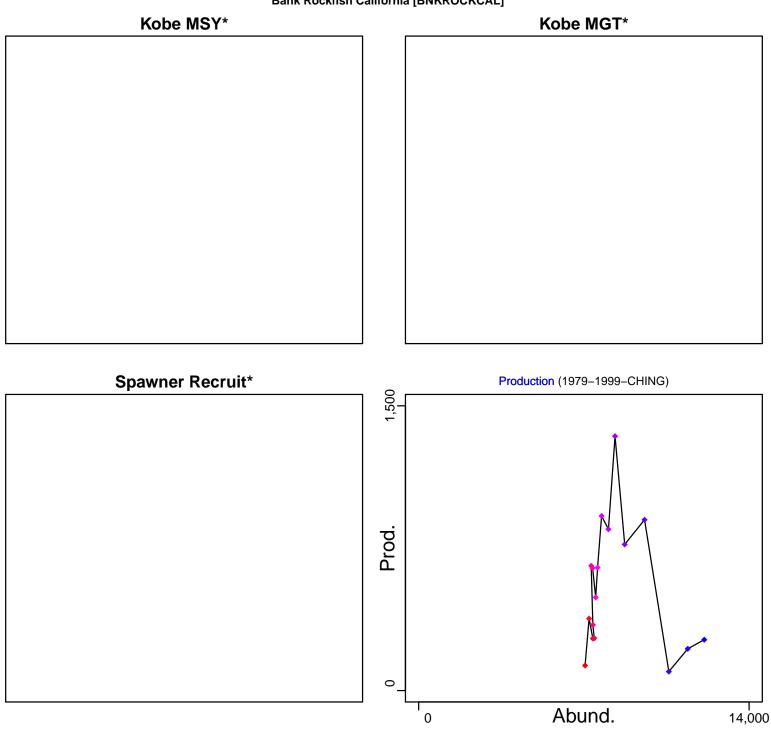


## Bank Rockfish California [BNKROCKCAL]

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

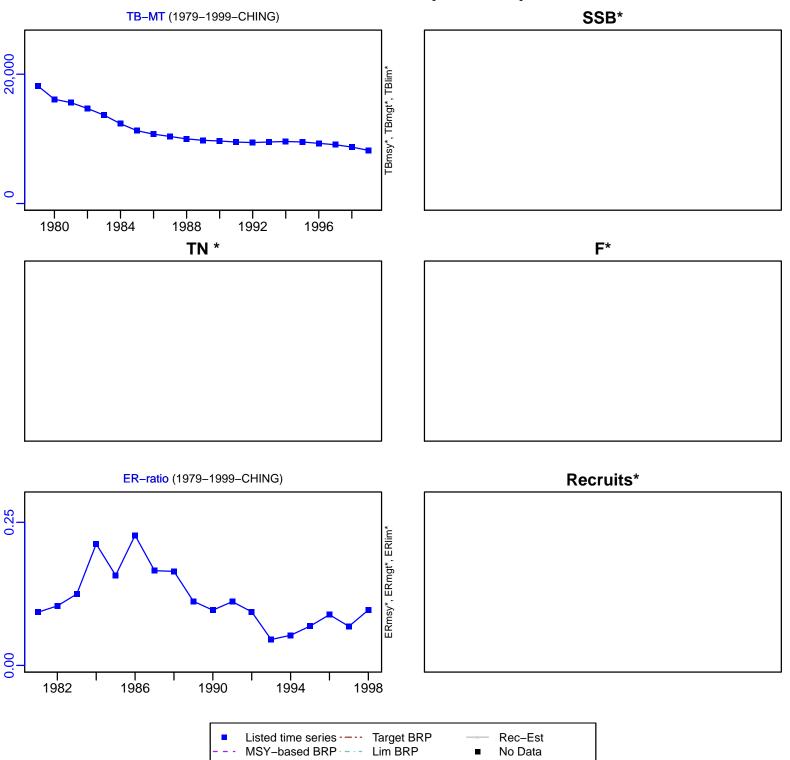
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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



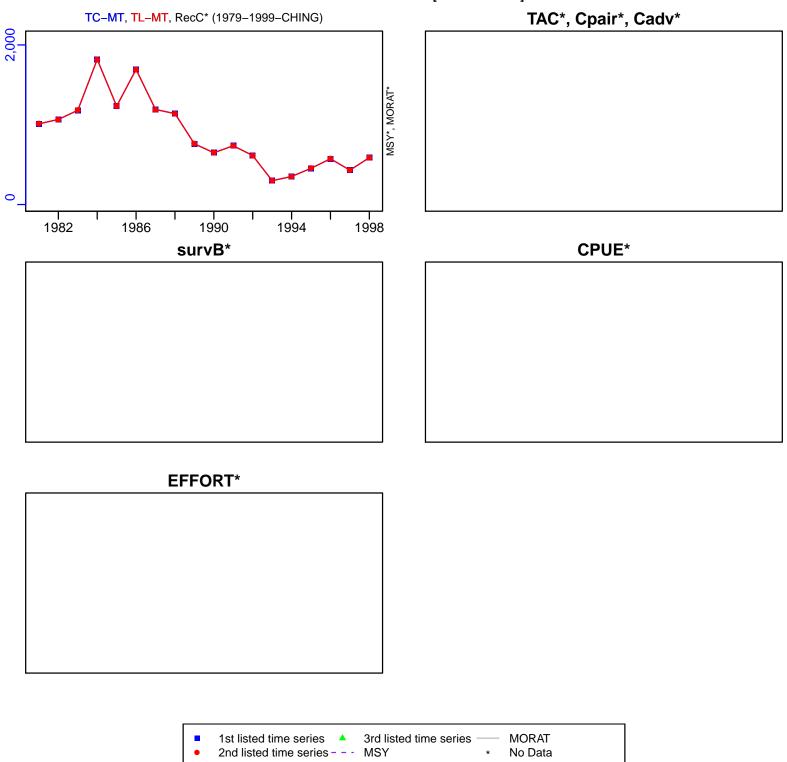
Start Year ◆ End Year \* No Data

### Bank Rockfish California [BNKROCKCAL]



No Data

## Bank Rockfish California [BNKROCKCAL]

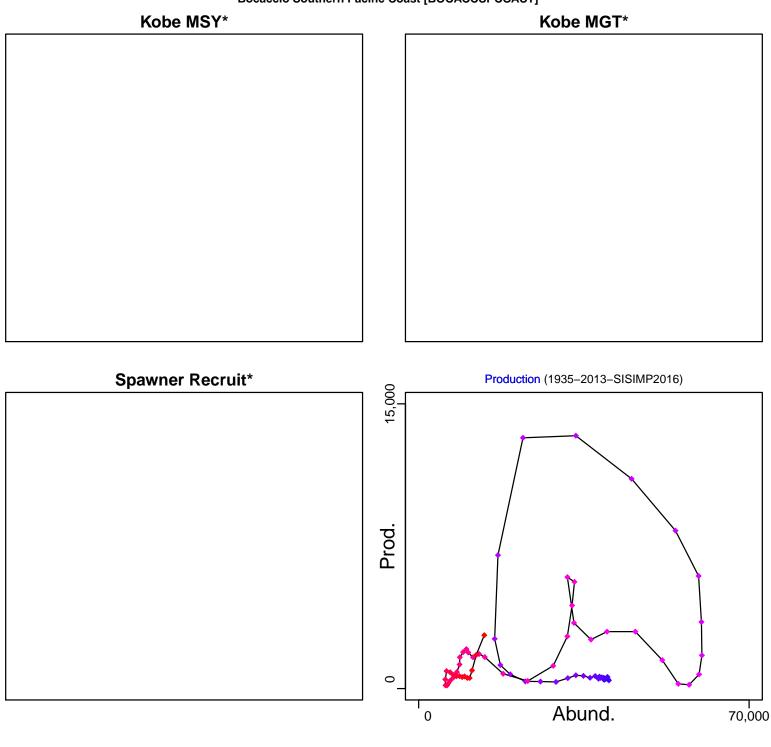


## **Bocaccio Southern Pacific Coast [BOCACCSPCOAST]**

Metadata			
Scientific Name	Sebastes paucispinis		
Current Assess ID	SWFSC-BOCACCSPCOAST-1935-2013-SISIMP2016		
Area	Southern Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2009, 2013		

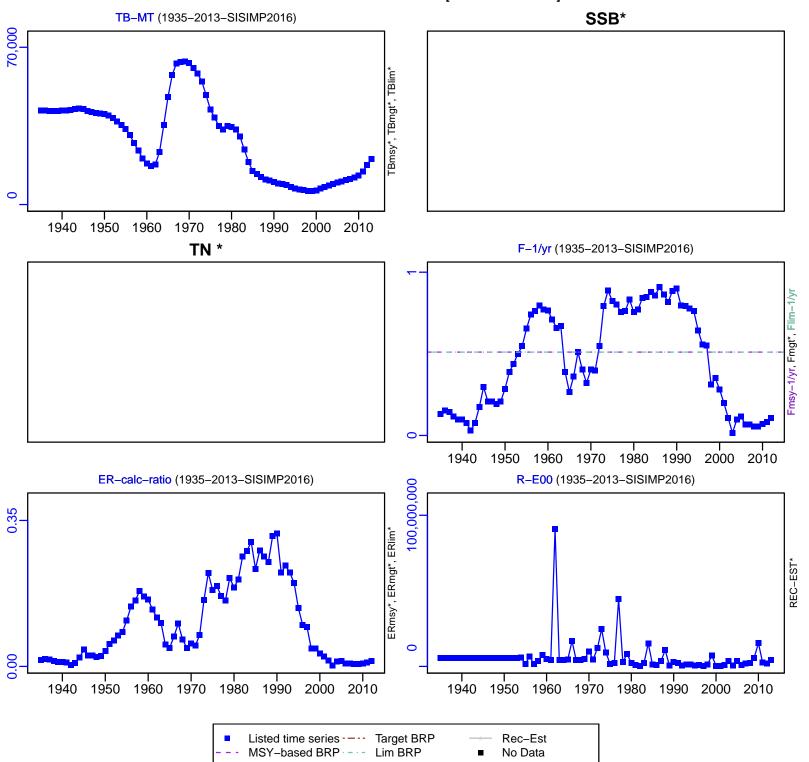
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2013	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2009	44,070	
SSB0	-	-	-	
MSY	MSY-MT	2013	1347	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2013	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	19,100	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2013	3,860,000	-	0
F	F-1/yr	2013	0.105	-	-
ER	ER-calc-ratio	2013	0.011	-	-
TC	TC-MT	2013	188		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.21		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

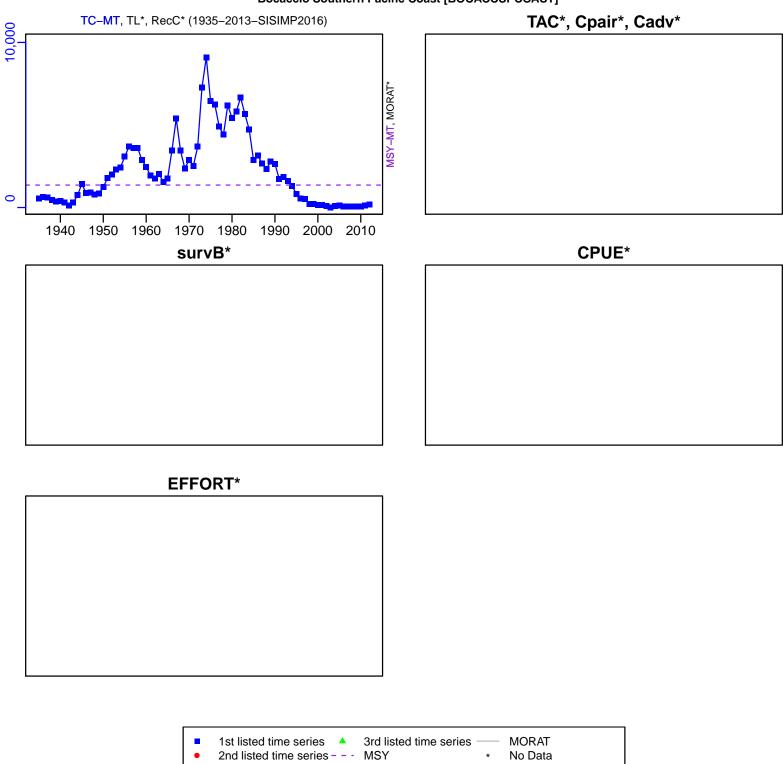


Start Year • End Year \* No Data

#### **Bocaccio Southern Pacific Coast [BOCACCSPCOAST]**



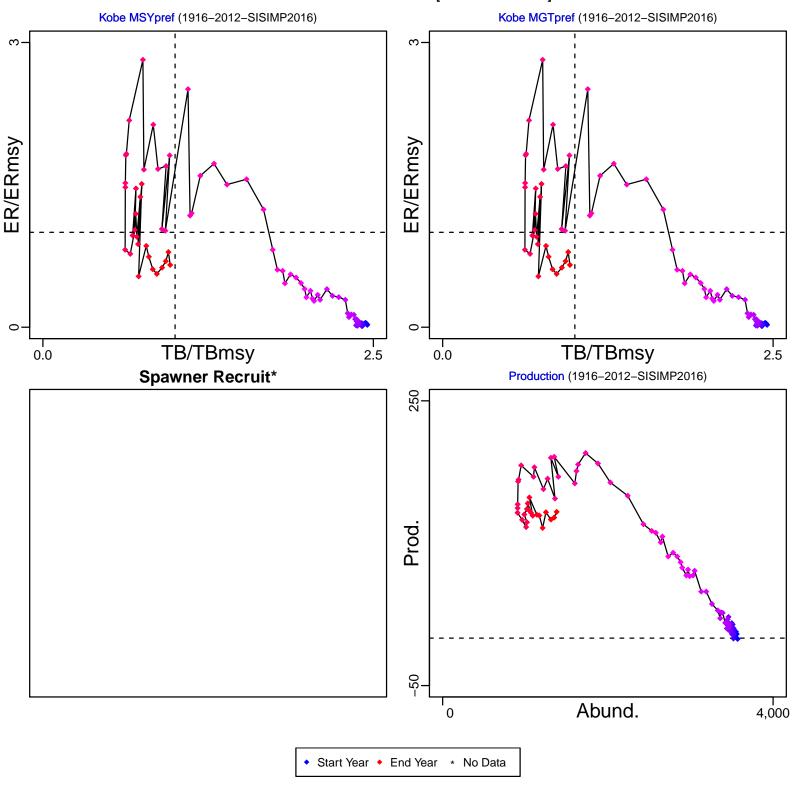
#### **Bocaccio Southern Pacific Coast [BOCACCSPCOAST]**

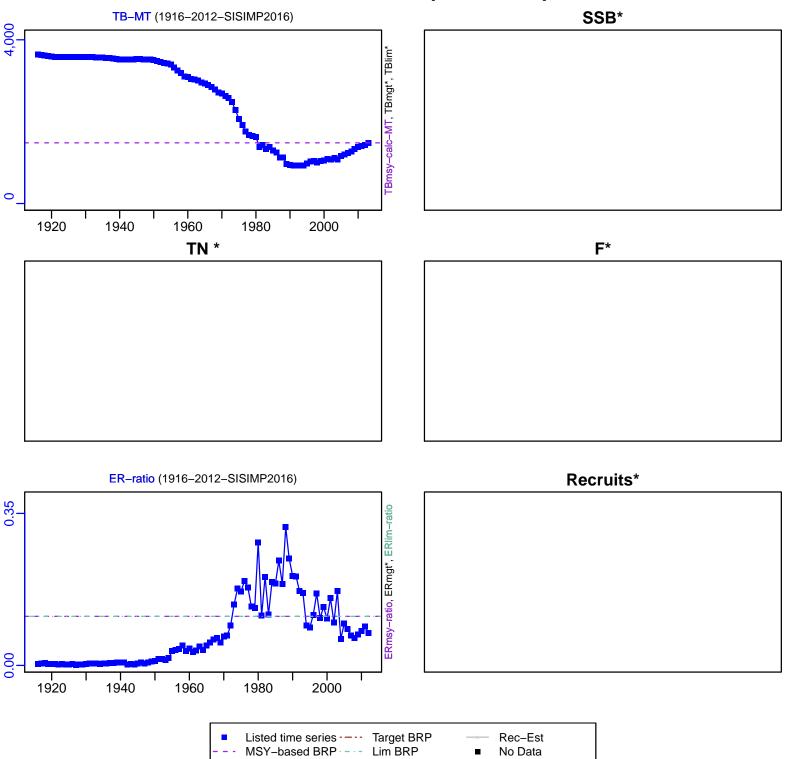


Metadata			
Scientific Name	Sebastes auriculatus		
Current Assess ID	SWFSC-BRNROCKPCOAST-1916-2012-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2012		

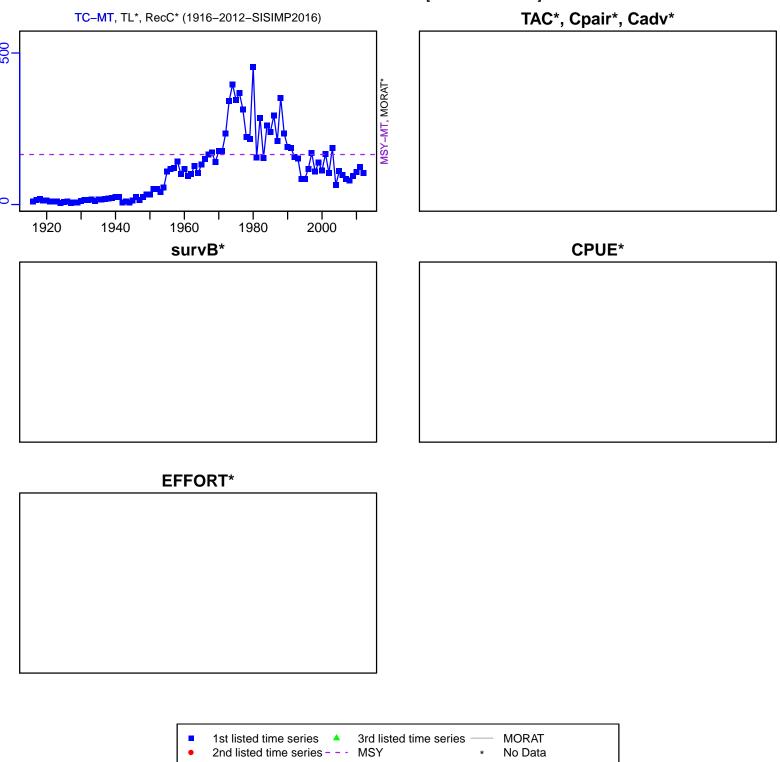
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	1455	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.103	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2012	150	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2012	0.103	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	1450	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.068	-	-
TC	TC-MT	2012	95		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.993		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.656		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





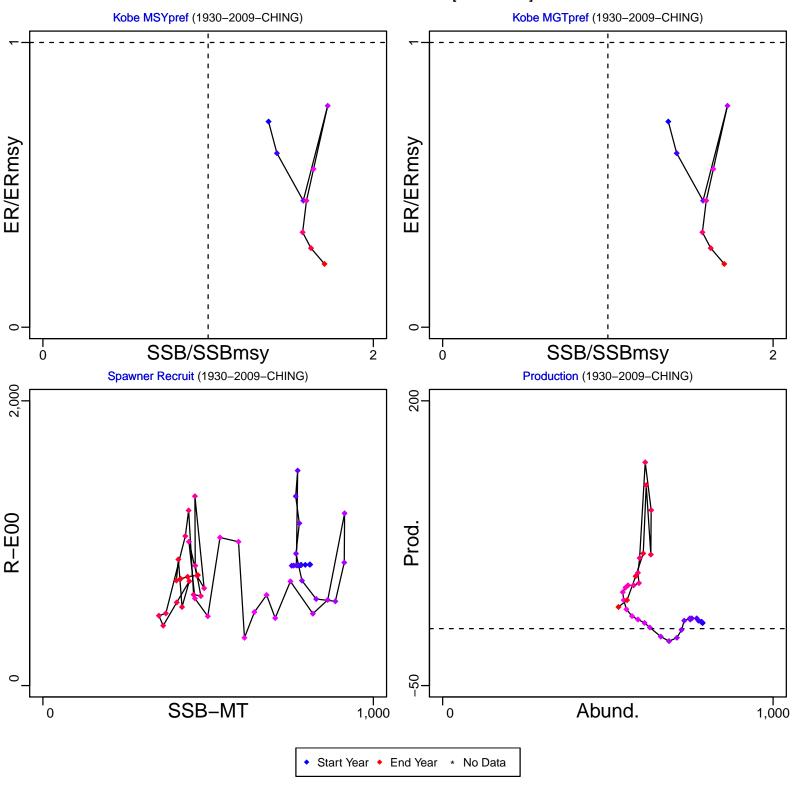
No Data

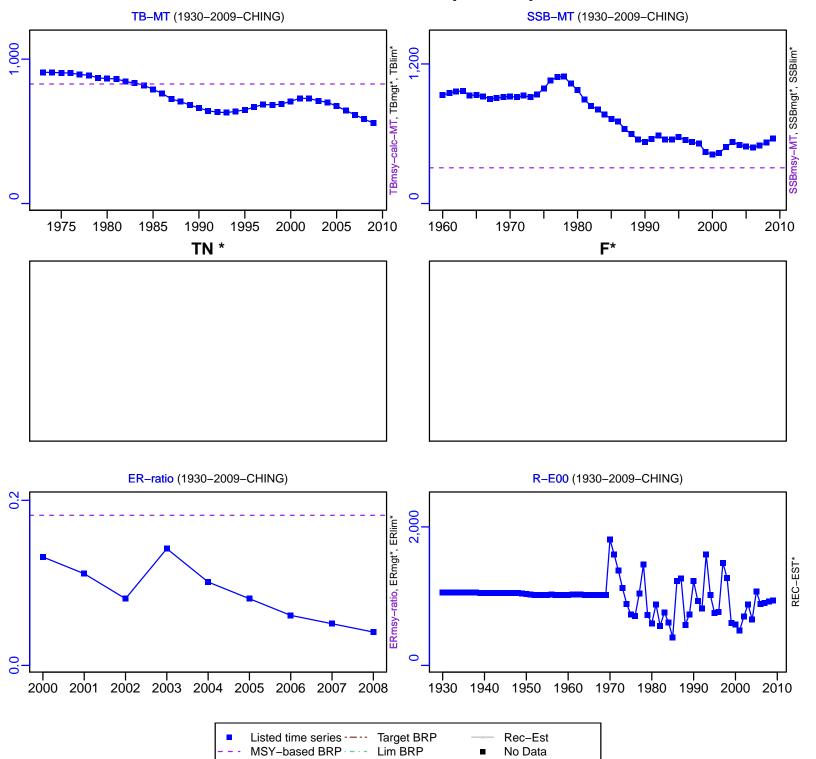


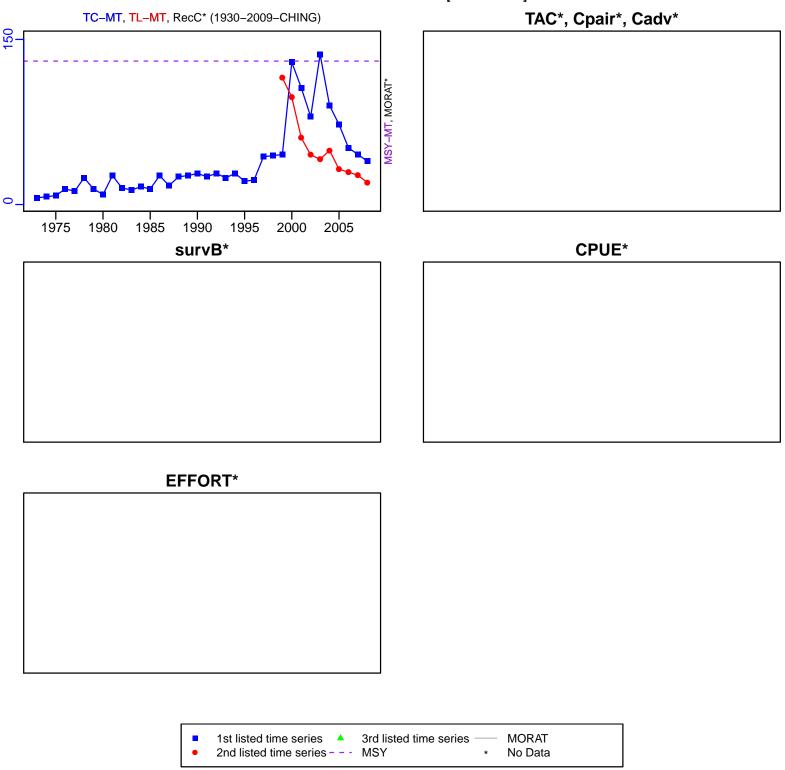
Metadata			
Scientific Name	Scorpaenichthys marmoratus		
Current Assess ID	PFMC-CABEZNCAL-1930-2009-CHING		
Area	Northern California		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Pacific Fishery Management Council		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2009	717	
SSBmsy	SSBmsy-MT	2009	257	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.18	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2009	1835	
SSB0	SSB0-MT	2009	1036	
MSY	MSY-MT	2009	129	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	483	Both	2+
SSB	SSB-MT	2009	469	Females	3+
TN	-	-	-	-	-
R	R-E00	2009	776	-	-
F	-	-	-	-	-
ER	ER-ratio	2009	0.04	-	-
TC	TC-MT	2009	39		
TL	TL-MT	2009	20		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	0.674		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.825		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.222		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



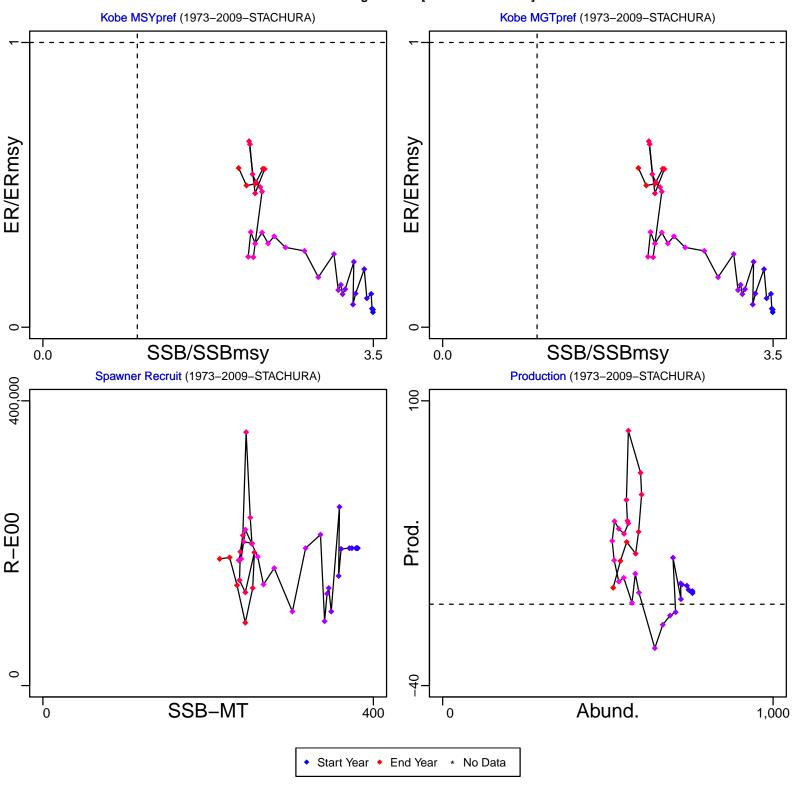


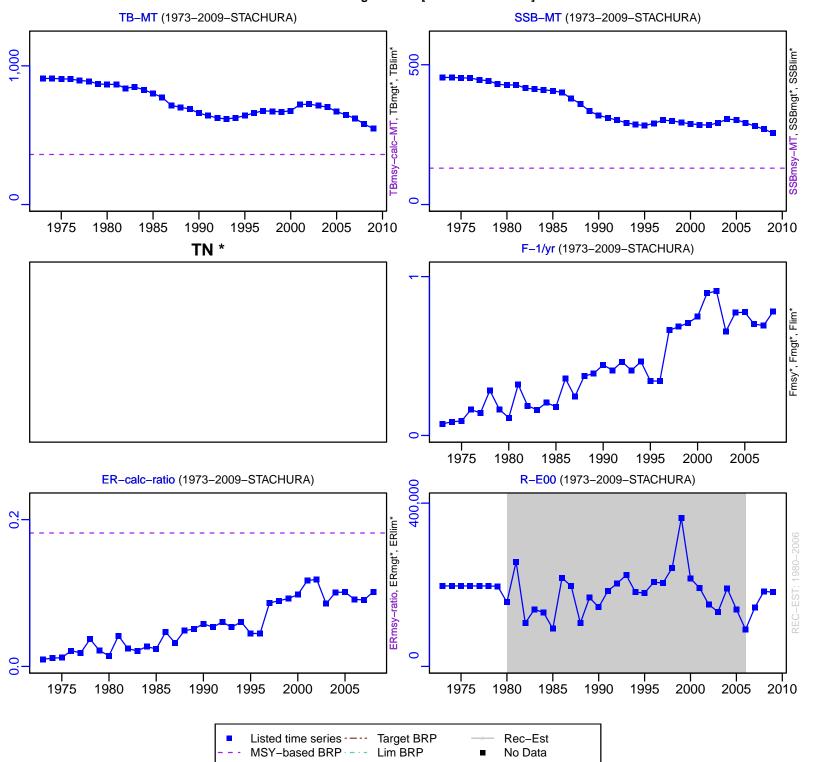


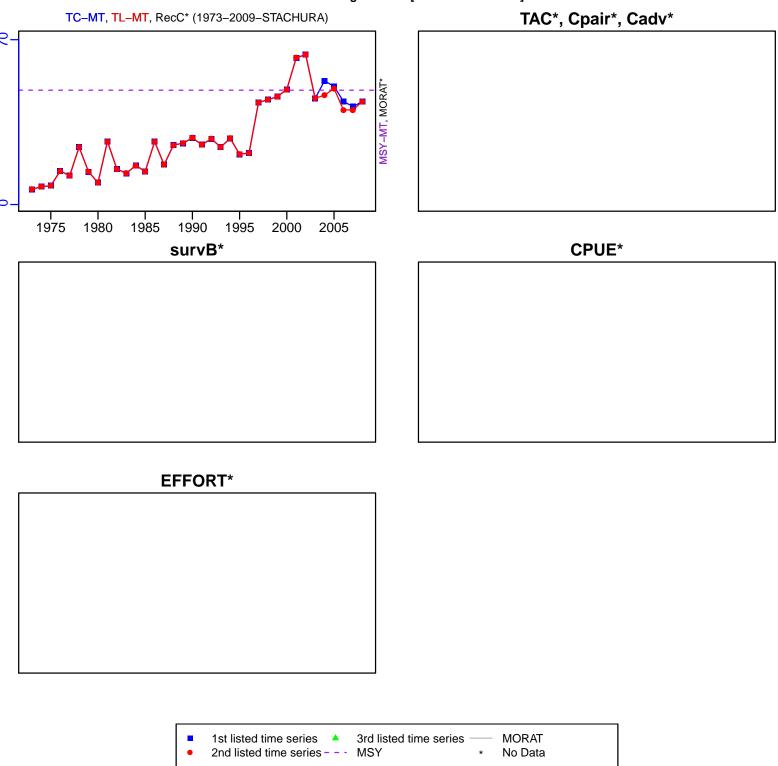
Metadata			
Scientific Name	Scorpaenichthys marmoratus		
Current Assess ID	NWFSC-CABEZORECOAST-1973-2009-STACHURA		
Area Oregon Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2009	300	
SSBmsy	SSBmsy-MT	2009	109	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.16	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	409	
MSY	MSY-MT	2009	48	
M	M-1/yr	2009	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	455	-	2+
SSB	SSB-MT	2009	214	Females	3.86
TN	-	-	-	-	-
R	R-E00	2009	178,000	-	0
F	F-1/yr	2009	0.742	-	-
ER	ER-calc-ratio	2009	0.089	-	-
TC	TC-MT	2009	43		
TL	TL-MT	2009	43		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	1.517		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.963		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2009	0.559		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



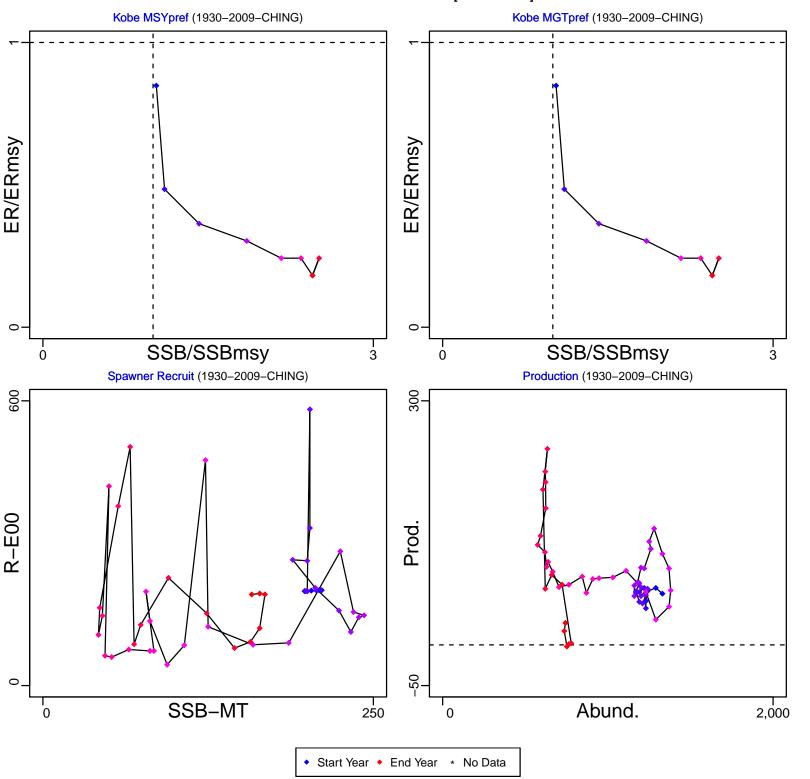


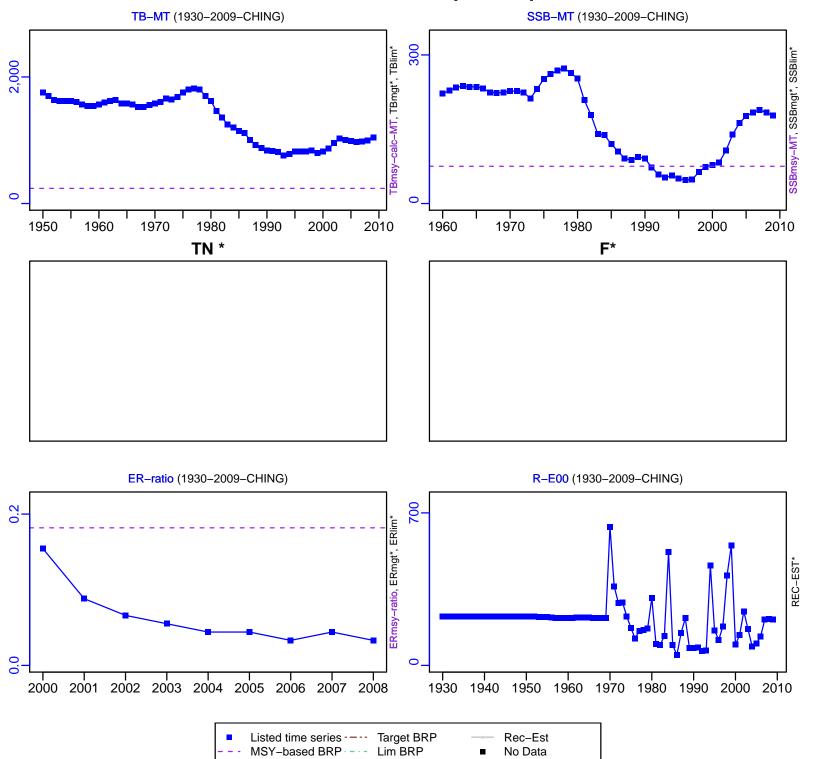


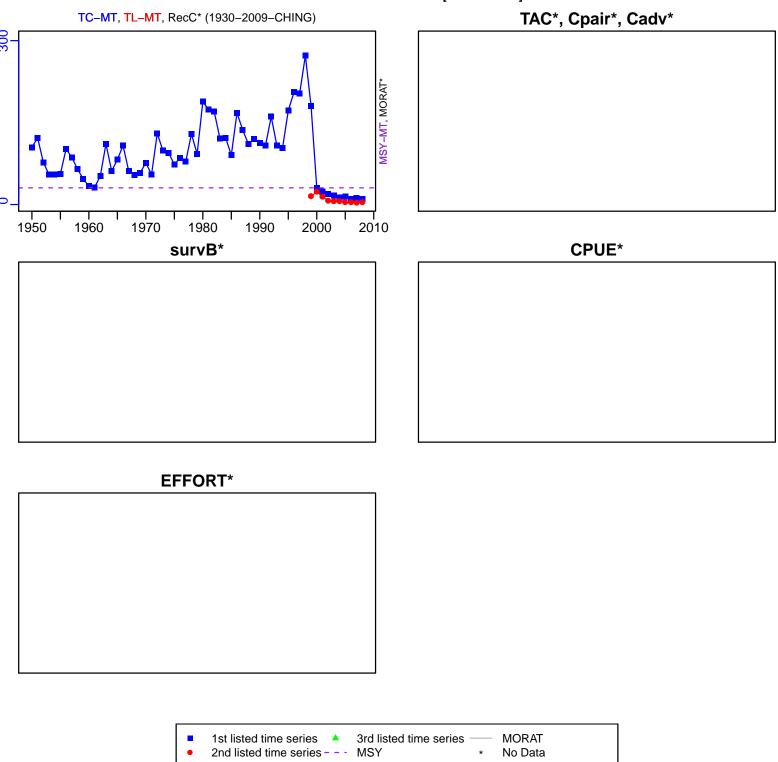
Metadata			
Scientific Name	Scorpaenichthys marmoratus		
Current Assess ID	PFMC-CABEZSCAL-1930-2009-CHING		
Area	Southern California		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Pacific Fishery Management Council		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2009	182	
SSBmsy	SSBmsy-MT	2009	67	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.165	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2009	470	
SSB0	SSB0-MT	2009	263	
MSY	MSY-MT	2009	30	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	789	Both	2+
SSB	SSB-MT	2009	158	Females	3+
TN	-	-	-	-	-
R	R-E00	2009	192	-	-
F	-	-	-	-	-
ER	ER-ratio	2009	0.03	-	-
TC	TC-MT	2009	10		
TL	TL-MT	2009	3.9		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	4.34		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	2.358		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.182		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



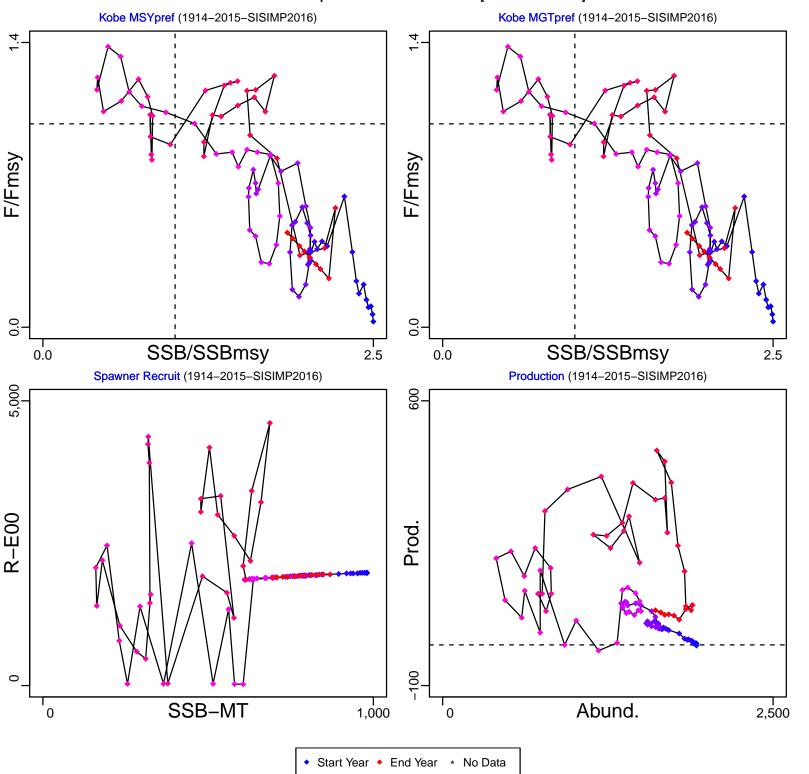


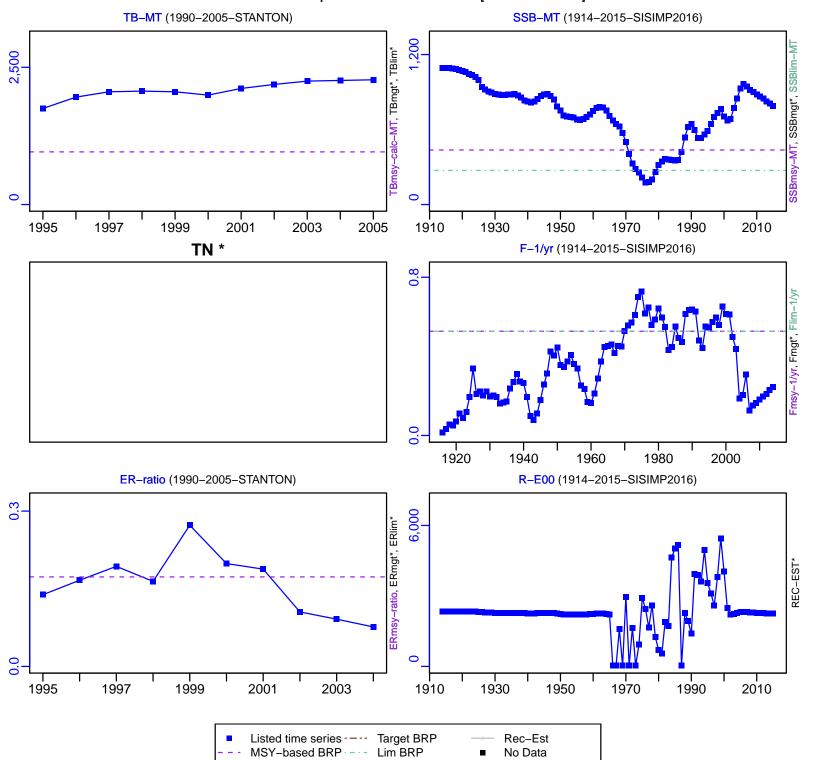


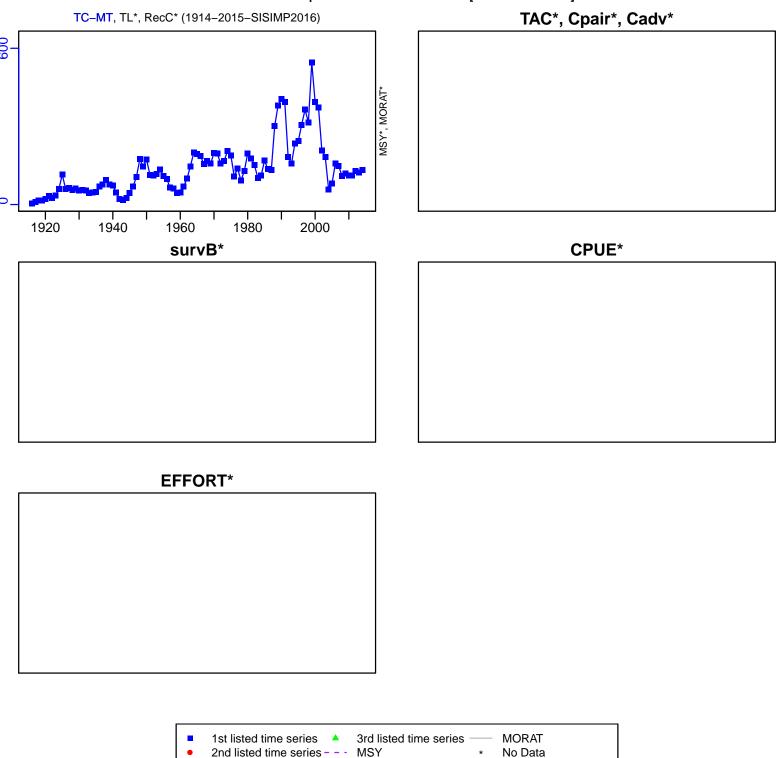
Metadata			
Scientific Name	Scorpaena guttata		
Current Assess ID SWFSC-CALSCORPSCAL-1914-2015-SISIMP2016			
Area Southern California			
Management Authority National Marine Fisheries Service, US national managen			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2015, 2005		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2005	789	
SSBmsy	SSBmsy-MT	2015	392	
Fmsy	Fmsy-1/yr	2015	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	2005	127	
M	M-1/yr	2005	0.25	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2015	245	
Flim	Flim-1/yr	2015	0.5	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1550	-	2+
SSB	SSB-MT	2015	708	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1900	-	0
F	F-1/yr	2015	0.232	-	-
ER	ER-calc-ratio	2015	0.078	-	-
TC	TC-MT	2015	124		
TL	TL-MT	2005	81		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	2.371		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.805		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.465		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.441		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







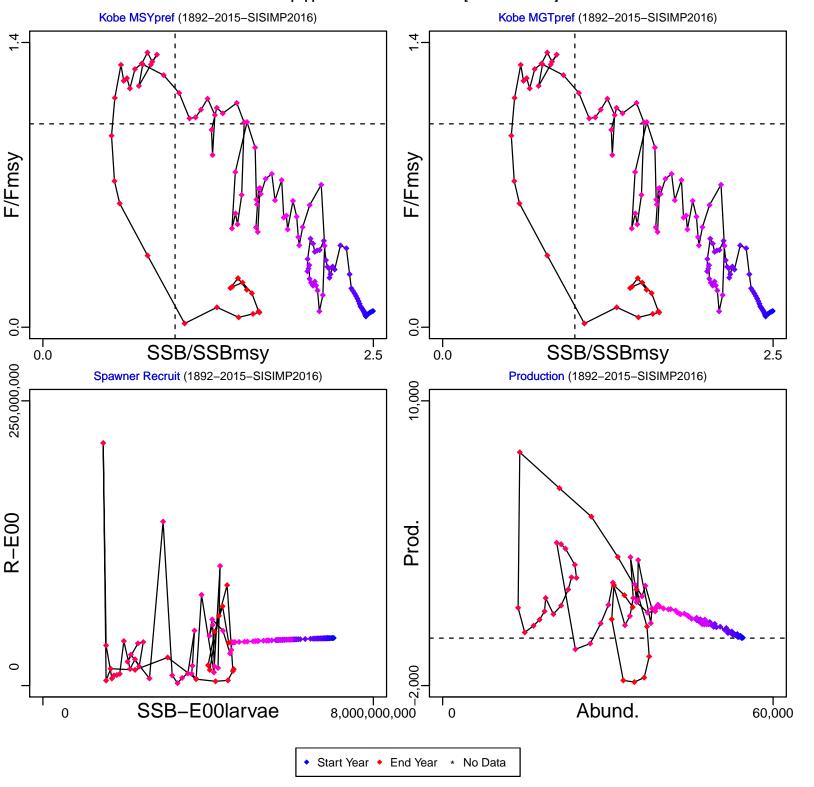
# **Chilipepper Southern Pacific Coast [CHILISPCOAST]**

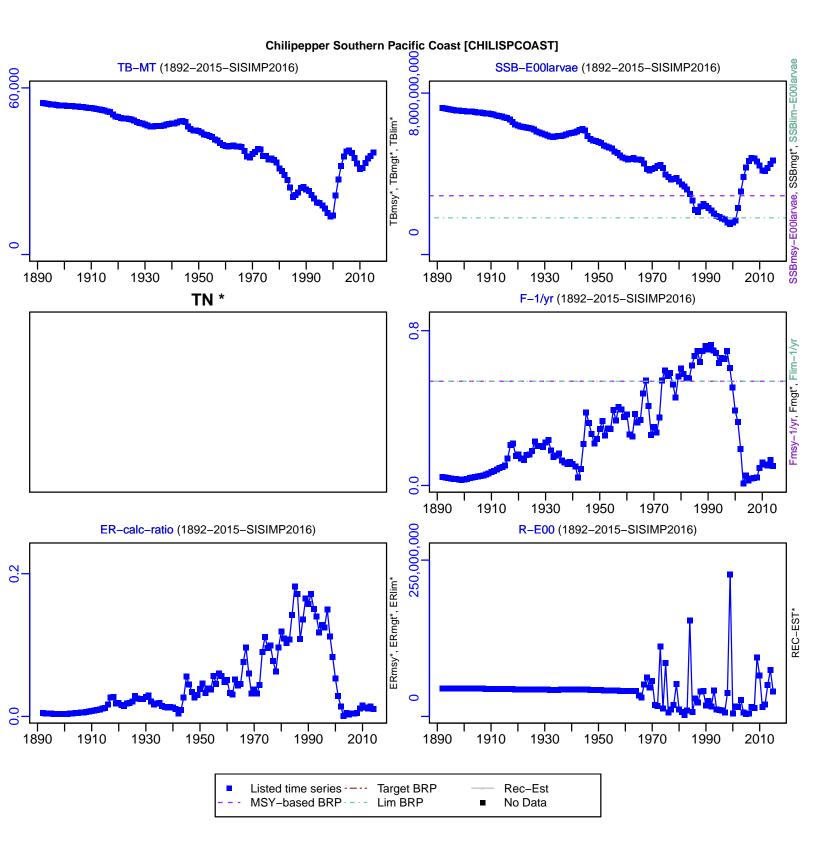
Metadata			
Scientific Name	Sebastes goodei		
Current Assess ID SWFSC-CHILISPCOAST-1892-2015-SISIMP2016			
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national manageme			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2007, 2015		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	19,321
SSBmsy	SSBmsy-E00larvae	2015	$2.82 \times 10^{9}$
Fmsy	Fmsy-1/yr	2015	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	2015	2133
M	M-1/yr	2007	0.16
TBlim	TBlim-MT	2007	8666
SSBlim	SSBlim-E00larvae	2015	$1.76 \times 10^{9}$
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

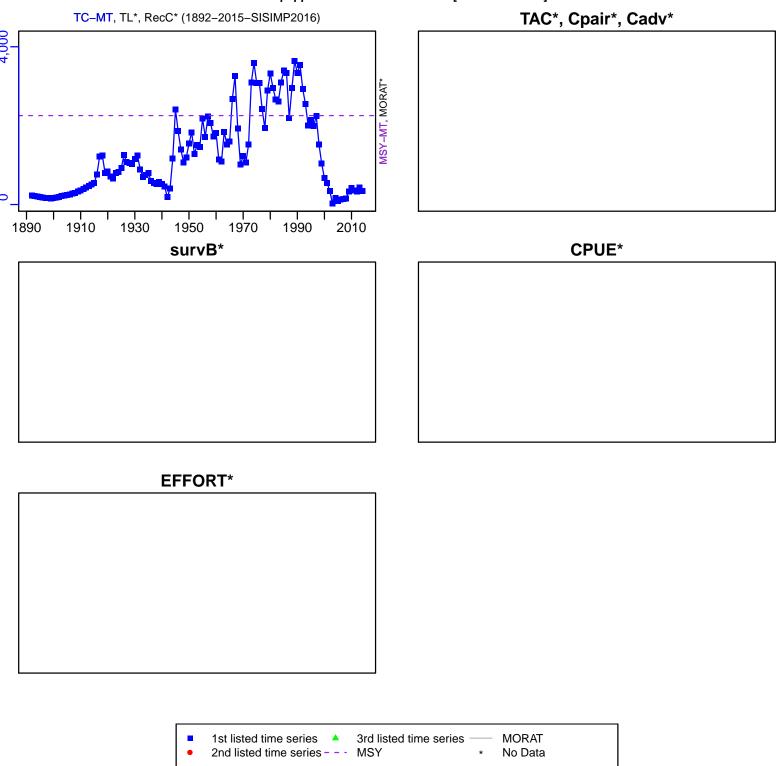
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	36,700	-	2+
SSB	SSB-E00larvae	2015	$4.5 \times 10^{9}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	37,700,000	-	0
F	F-1/yr	2015	0.092	-	-
ER	ER-calc-ratio	2015	0.009	-	-
TC	TC-MT	2015	325		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.739		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae	2015	1.597		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.184		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.035		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

#### Chilipepper Southern Pacific Coast [CHILISPCOAST]





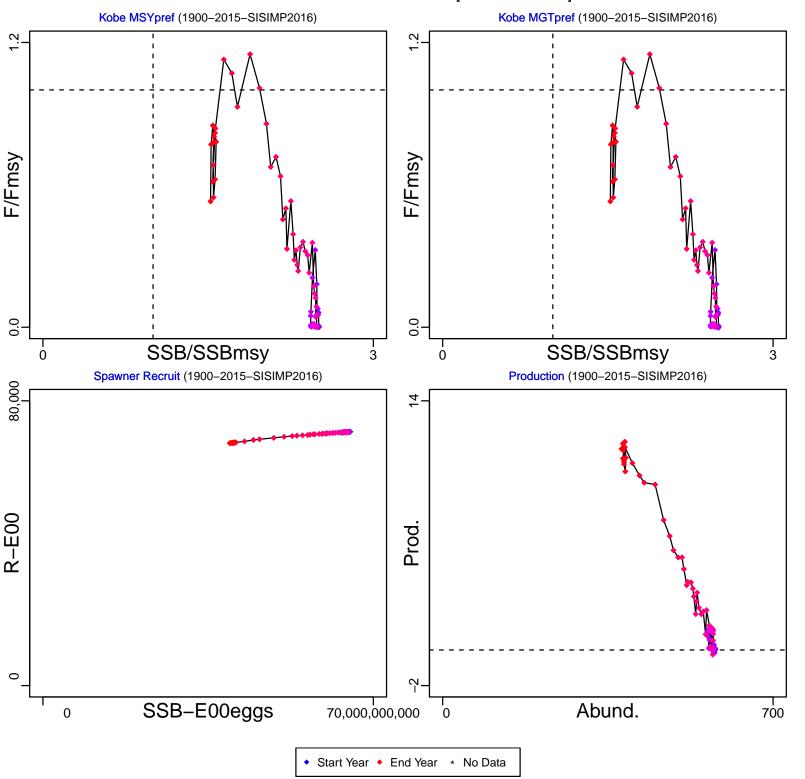
#### Chilipepper Southern Pacific Coast [CHILISPCOAST]

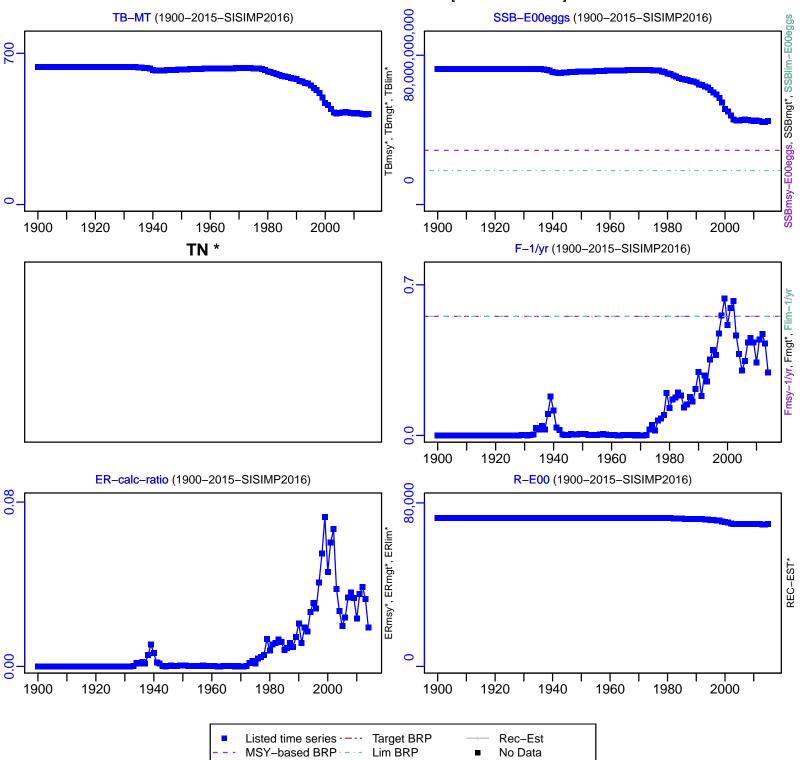


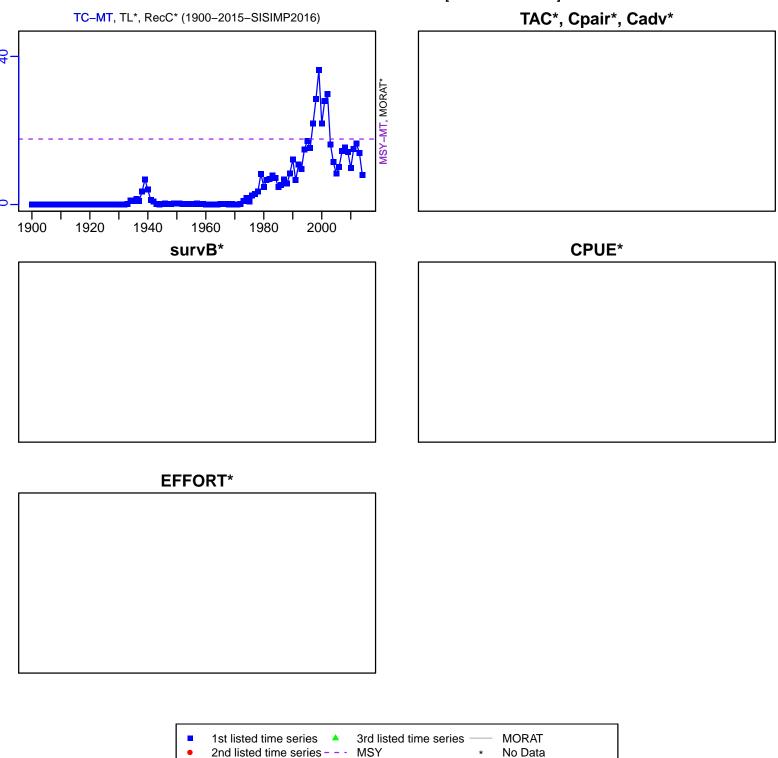
Metadata			
Scientific Name	Sebastes nebulosus		
Current Assess ID	NWFSC-CHROCKCPCOAST-1900-2015-SISIMP2016		
Area Central Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2015		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-E00eggs	2015	$2.6 \times 10^{10}$		
Fmsy	Fmsy-1/yr	2015	0.5		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2015	16		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-E00eggs	2015	$1.63 \times 10^{10}$		
Flim	Flim-1/yr	2015	0.5		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	381	-	5+
SSB	SSB-E00eggs	2015	$4 \times 10^{10}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	68,200	-	0
F	F-1/yr	2015	0.265	-	-
ER	ER-calc-ratio	2015	0.019	-	-
TC	TC-MT	2015	7		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.54		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.53		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



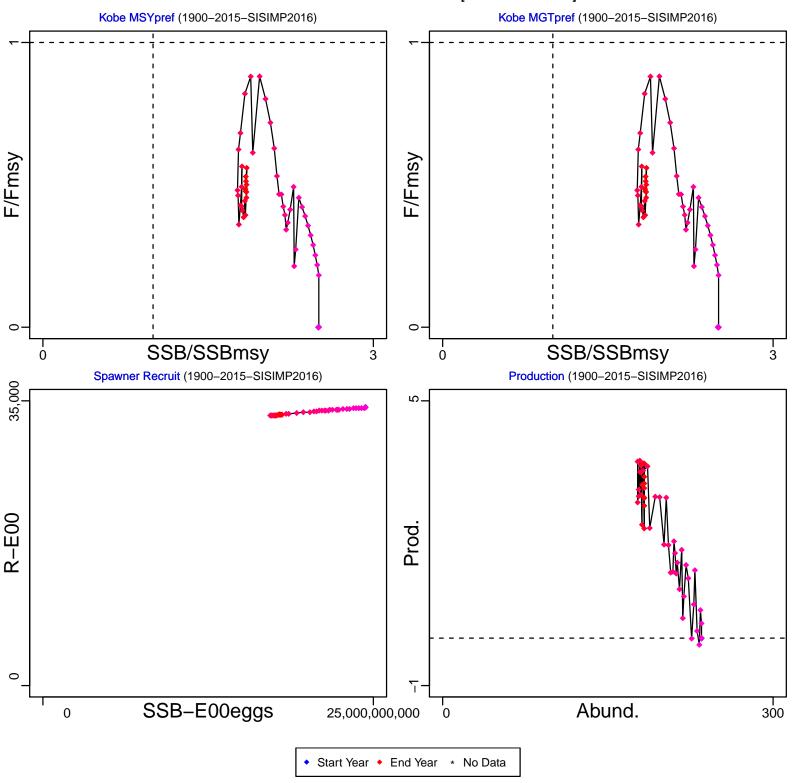


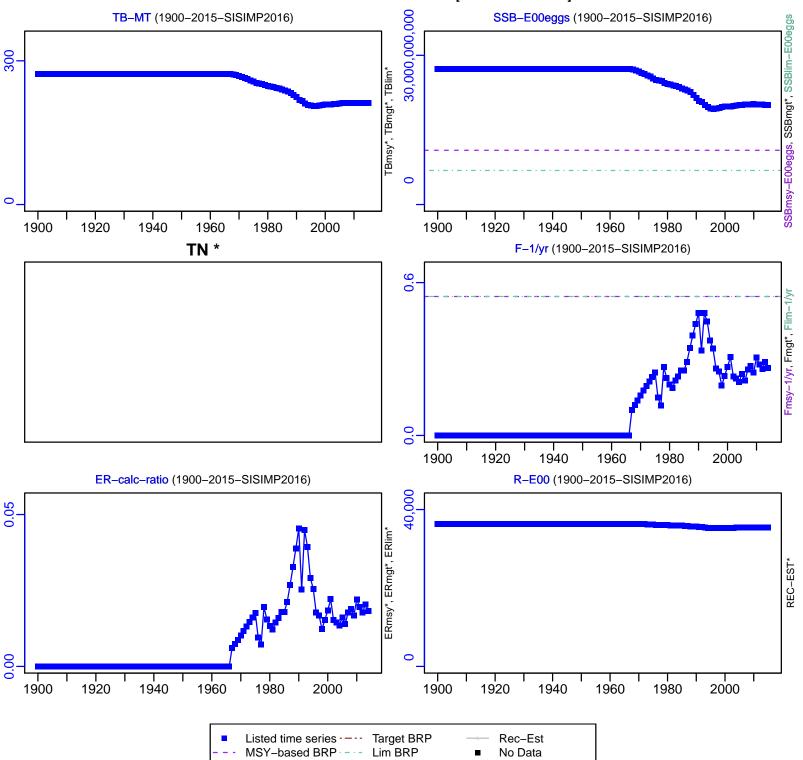


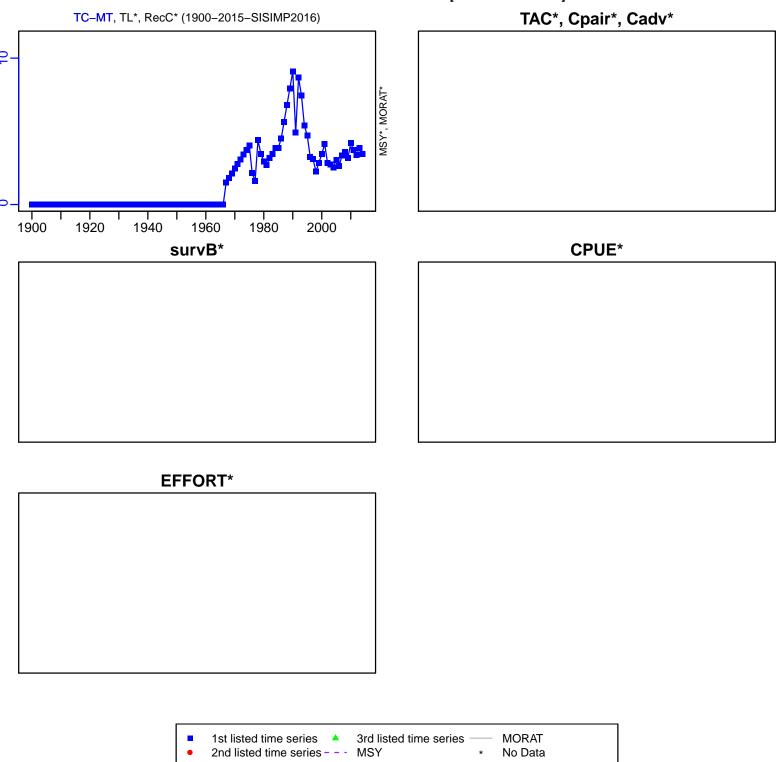
Metadata			
Scientific Name	Sebastes nebulosus		
Current Assess ID	SWFSC-CHROCKNPCOAST-1900-2015-SISIMP2016		
Area Northern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2015	$9.76 \times 10^{9}$	
Fmsy	Fmsy-1/yr	2015	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2015	$6.13 \times 10^{9}$	
Flim	Flim-1/yr	2015	0.5	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	183	-	5+
SSB	SSB-E00eggs	2015	$1.79 \times 10^{10}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	33,300	-	0
F	F-1/yr	2015	0.242	-	-
ER	ER-calc-ratio	2015	0.017	-	-
TC	TC-MT	2015	3.02		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.839		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.485		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



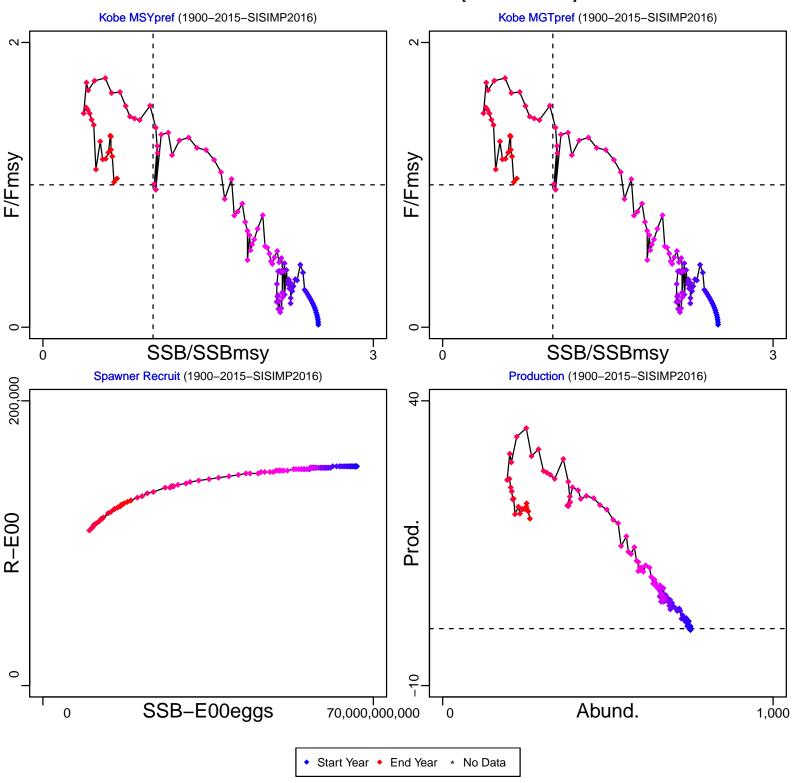


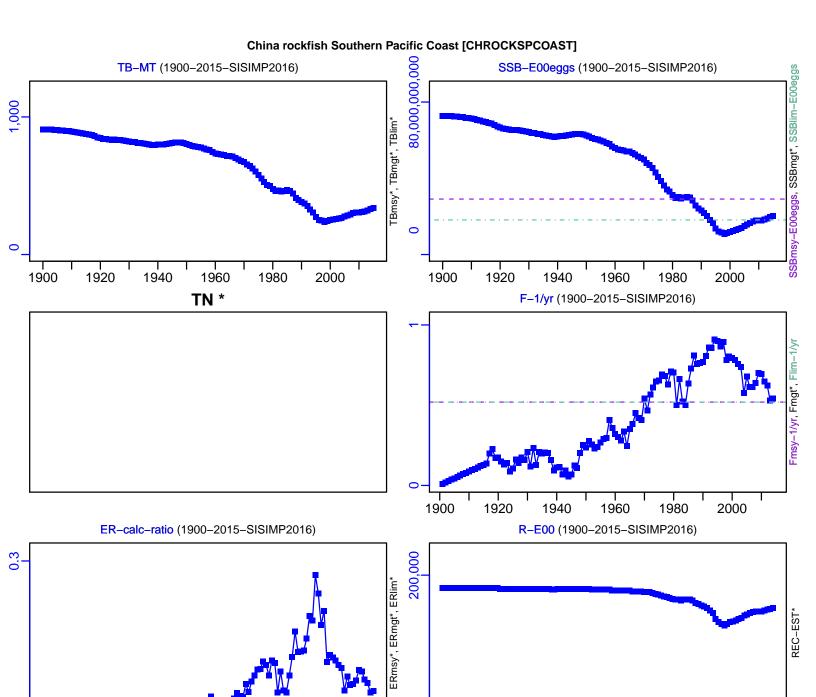


Metadata				
Scientific Name	Sebastes nebulosus			
Current Assess ID	NWFSC-CHROCKSPCOAST-1900-2015-SISIMP2016			
Area	Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center			
Asmts in RAM	2015			

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-E00eggs	2015	$2.66 \times 10^{10}$			
Fmsy	Fmsy-1/yr	2015	0.5			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2015	21			
М	-	-	-			
TBlim	-	-	-			
SSBlim	SSBlim-E00eggs	2015	$1.66\times10^{10}$			
Flim	Flim-1/yr	2015	0.5			
ERlim	-	-	-			

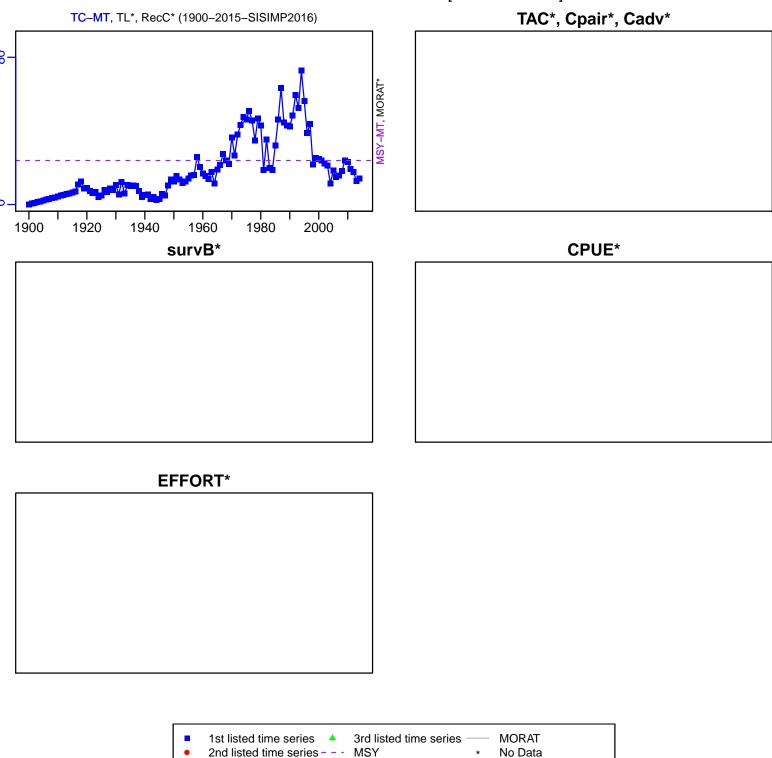
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2015	280	-	5+		
SSB	SSB-E00eggs	2015	$1.86 \times 10^{10}$	-	-		
TN	-	-	-	-	-		
R	R-E00	2015	130,000	-	0		
F	F-1/yr	2015	0.522	-	-		
ER	ER-calc-ratio	2015	0.046	-	-		
TC	TC-MT	2015	12				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.698				
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.044				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				





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

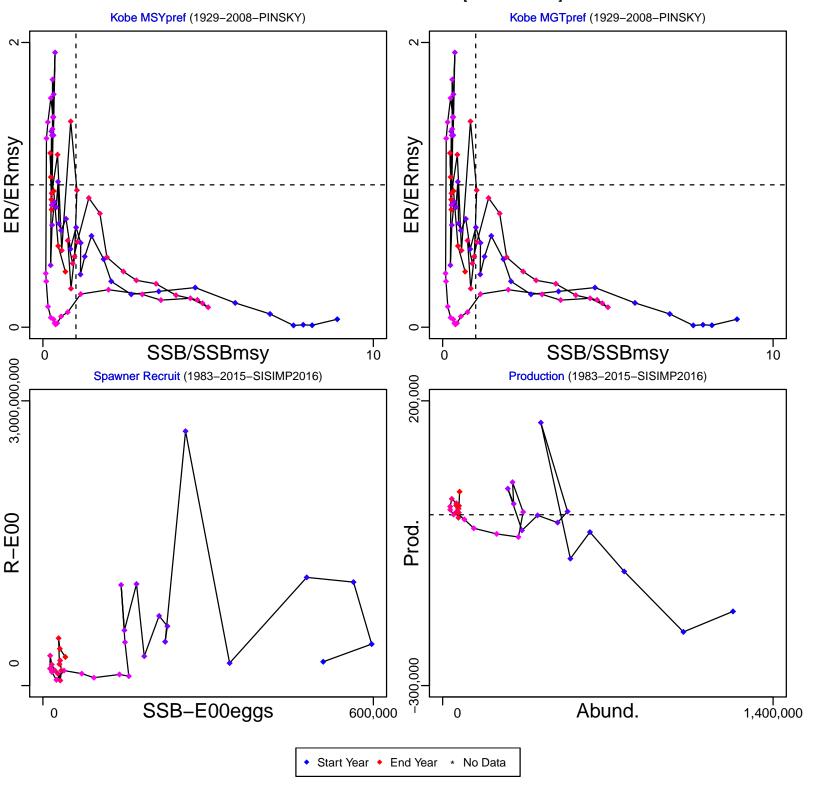
## China rockfish Southern Pacific Coast [CHROCKSPCOAST]

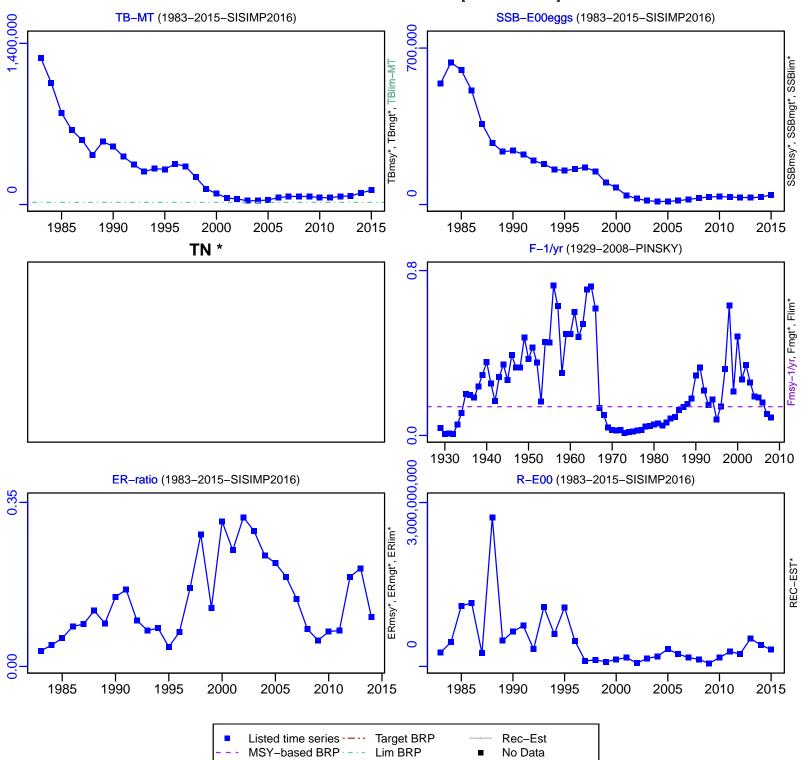


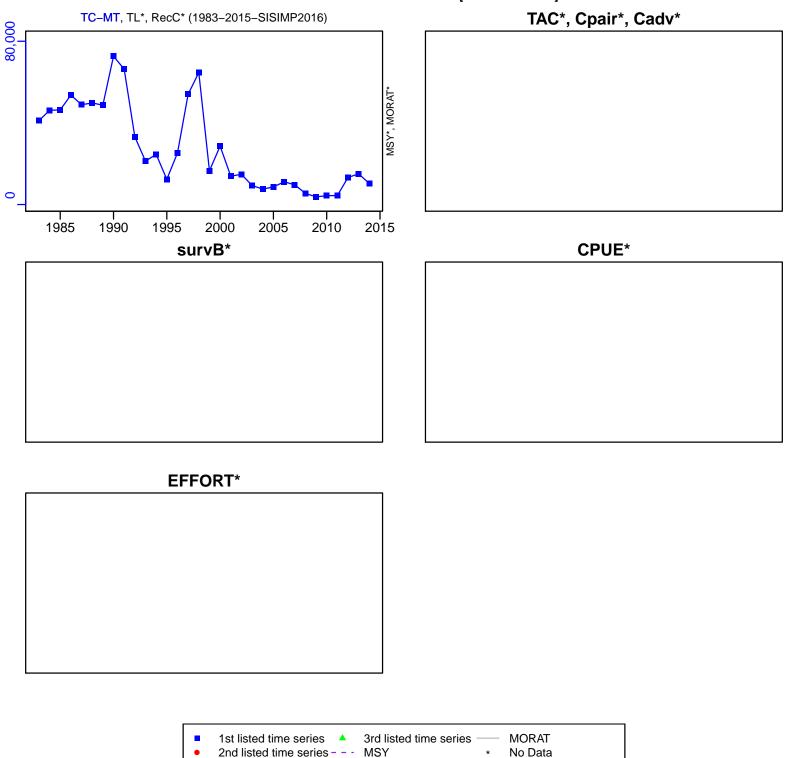
Metadata			
Scientific Name	Scomber japonicus		
Current Assess ID	SWFSC-CMACKPCOAST-1983-2015-SISIMP2016		
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2008, 2015		

	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	2015	18,200		
SSBlim	SSBlim-MT	2008	29,420		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	120,000	Both	1+
SSB	SSB-E00eggs	2015	40,800	Females	-
TN	-	-	-	-	-
R	R-E00	2015	$3.01 \times 10^{8}$	-	0
F	F-1/yr	2008	0.087	-	-
ER	ER-ratio	2015	0.104	-	-
TC	TC-MT	2015	10,100		1
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	-	-	-		



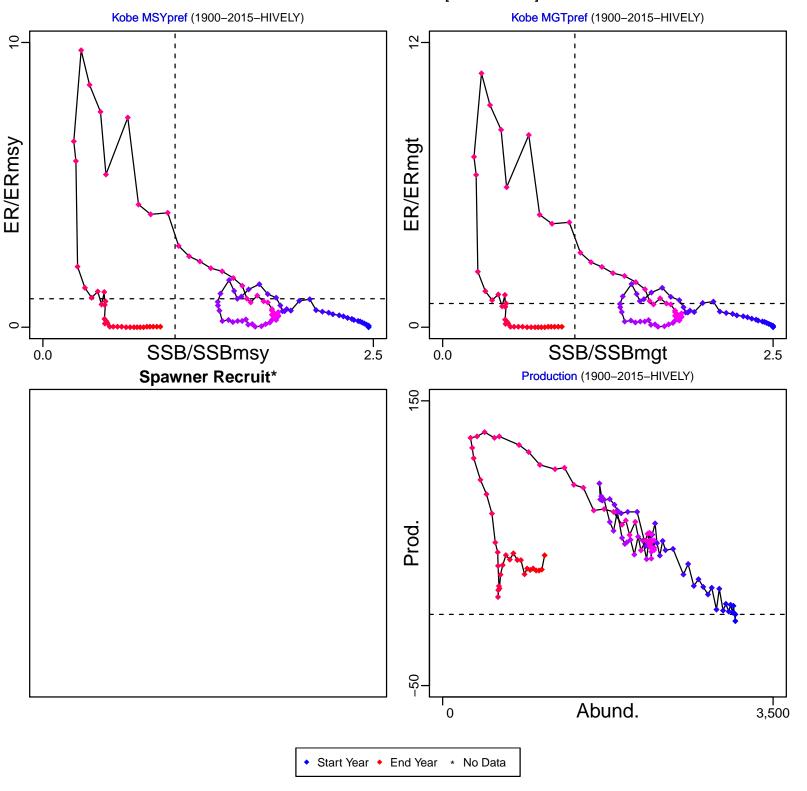


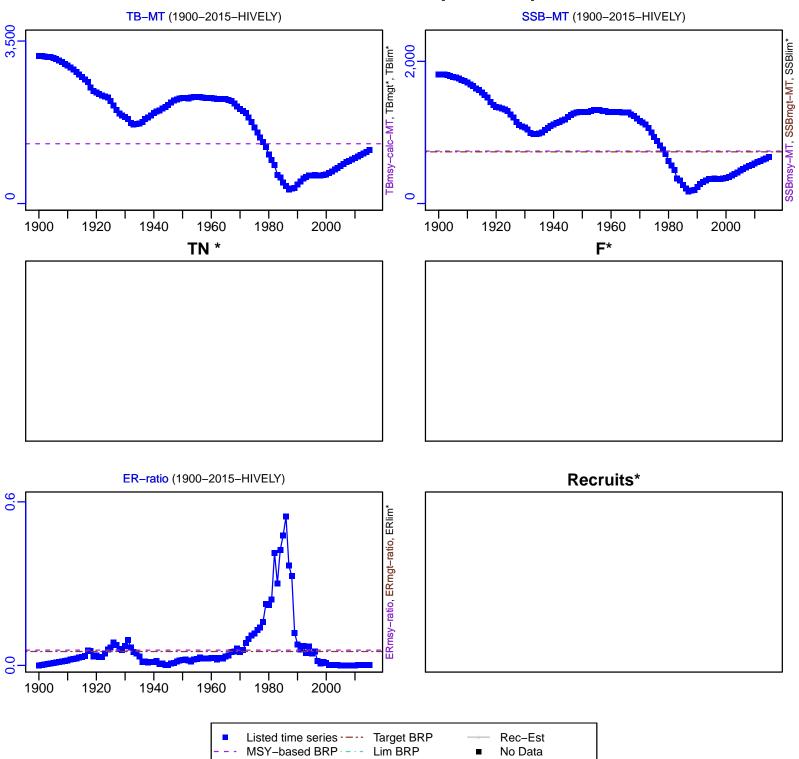


Metadata			
Scientific Name	Sebastes levis		
Current Assess ID PFMC-COWCODSCAL-1900-2015-HIVELY			
Area Southern California			
Management Authority National Marine Fisheries Service, US national managem			
Assessor Pacific Fishery Management Council			
Asmts in RAM	2015, 2012		

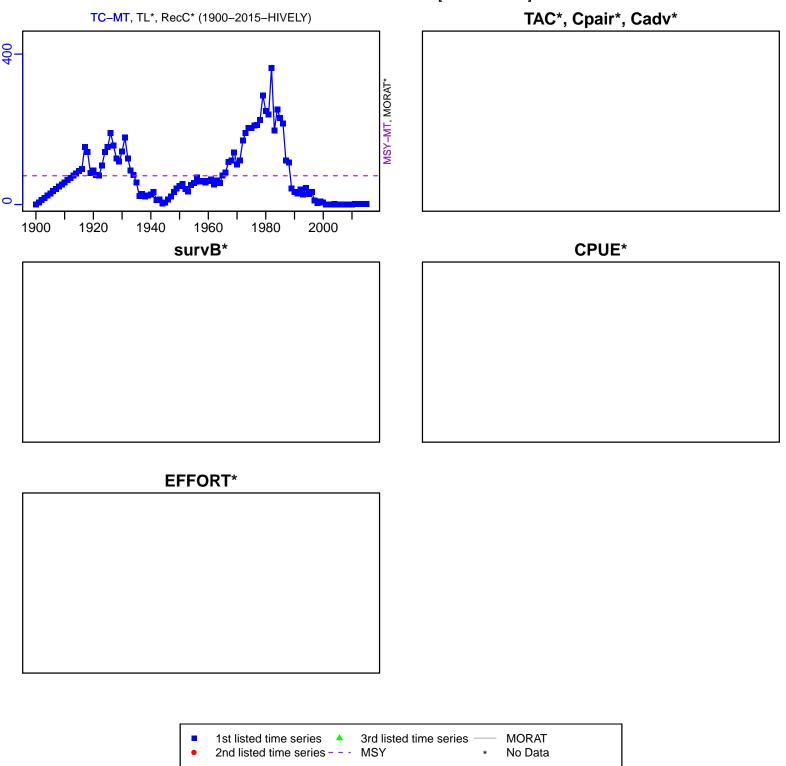
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2015	1255	
SSBmsy	SSBmsy-MT	2015	629	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2015	0.055	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2015	620	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2015	0.05	
TB0	TB0-MT	2015	3099	
SSB0	SSB0-MT	2015	1549	
MSY	MSY-MT	2015	69	
M	M-1/yr	2015	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2012	0.05	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1120	-	11+
SSB	SSB-MT	2015	559	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2015	0.001	-	-
TC	TC-MT	2015	1.5		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2015	0.893		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.889		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.018		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.902		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





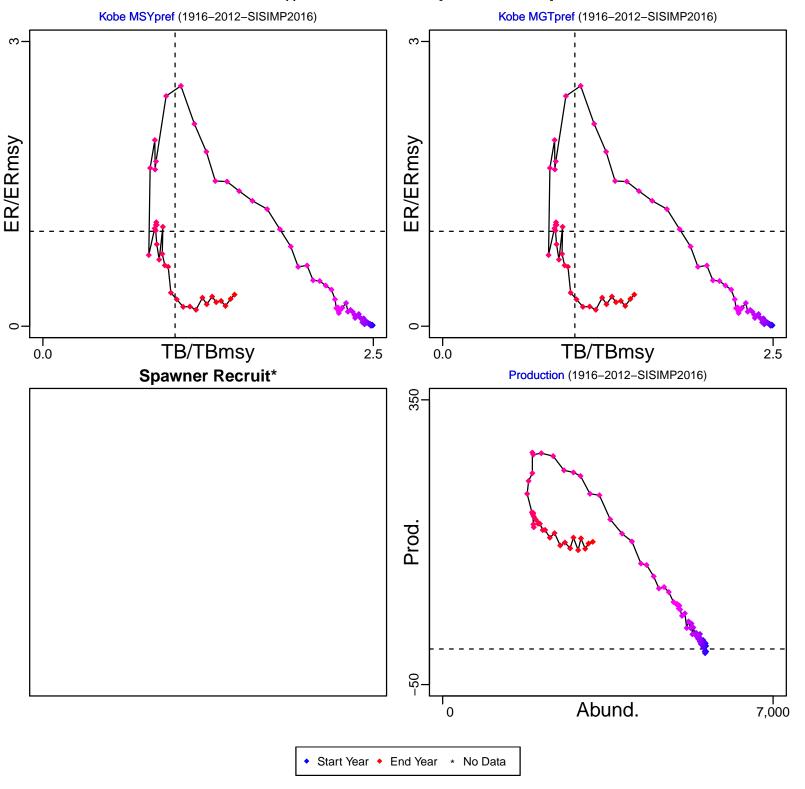
No Data

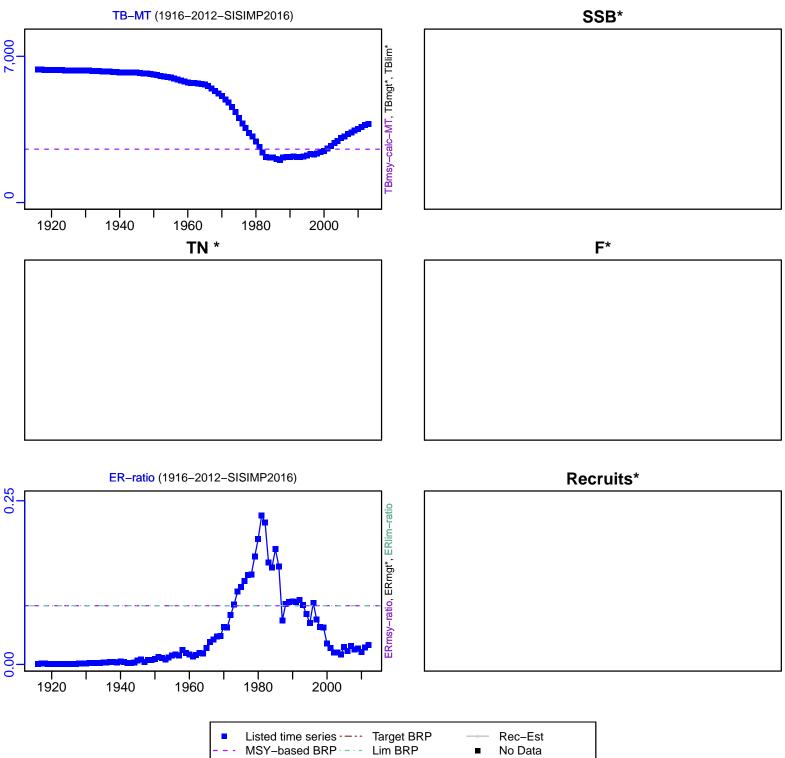


Metadata			
Scientific Name	Sebastes caurinus		
Current Assess ID	SWFSC-CPRROCKPCOAST-1916-2012-SISIMP2016		
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2012		

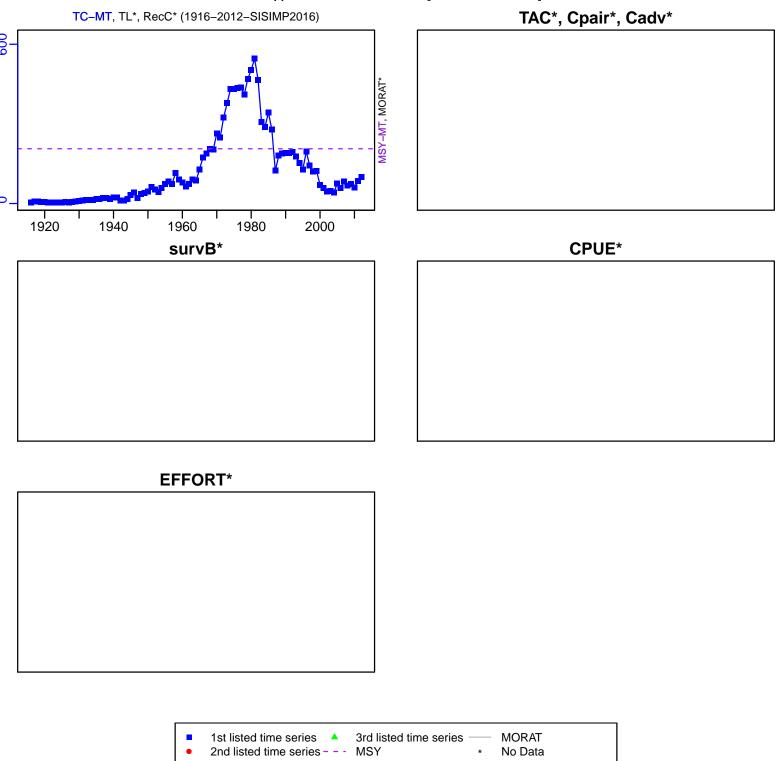
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2012	2238		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2012	0.088		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2012	197		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	ERlim-ratio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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	3290	-	6+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.029	-	-
TC	TC-MT	2012	95		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	1.468		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.333		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





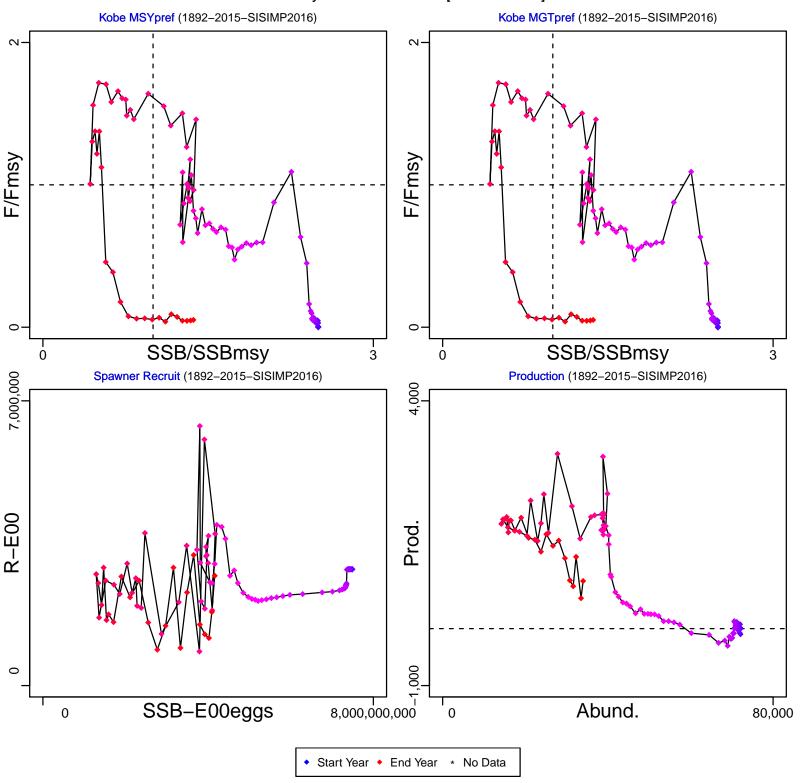
No Data

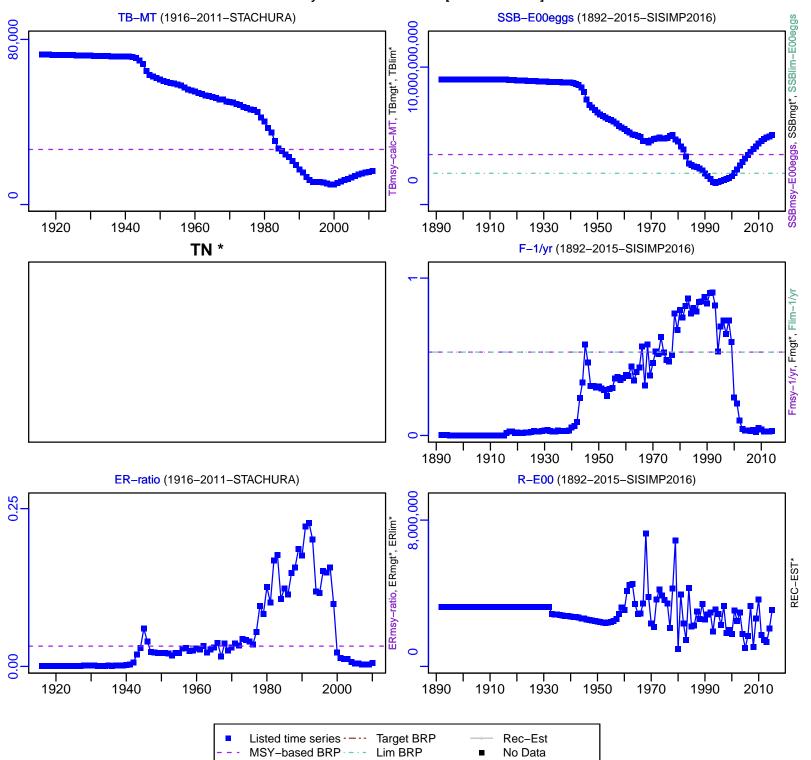


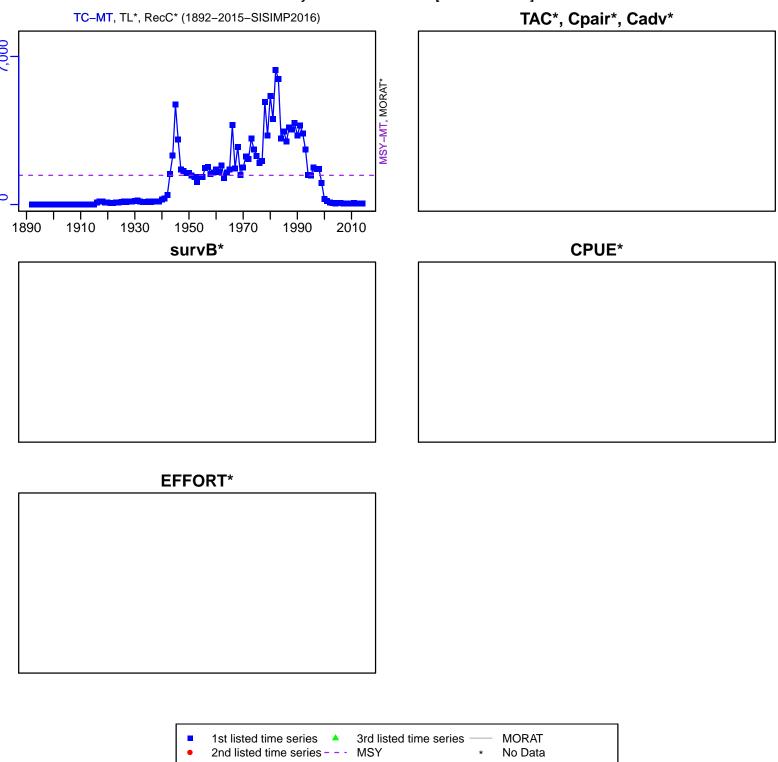
Metadata			
Scientific Name	Sebastes pinniger		
Current Assess ID NWFSC-CROCKPCOAST-1892-2015-SISIMP2016			
Area Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2011		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	26,414	
SSBmsy	SSBmsy-E00eggs	2015	2,996,400,000	
Fmsy	Fmsy-1/yr	2015	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	2015	1226	
М	M-1/yr	2011	0.06	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2015	1,872,750,000	
Flim	Flim-1/yr	2015	0.5	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	36,000	-	5+
SSB	SSB-E00eggs	2015	$4.16 \times 10^{9}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2,700,000	-	0
F	F-1/yr	2015	0.026	-	-
ER	ER-calc-ratio	2015	0.001	-	-
TC	TC-MT	2015	42		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.61		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.387		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.051		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.171		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



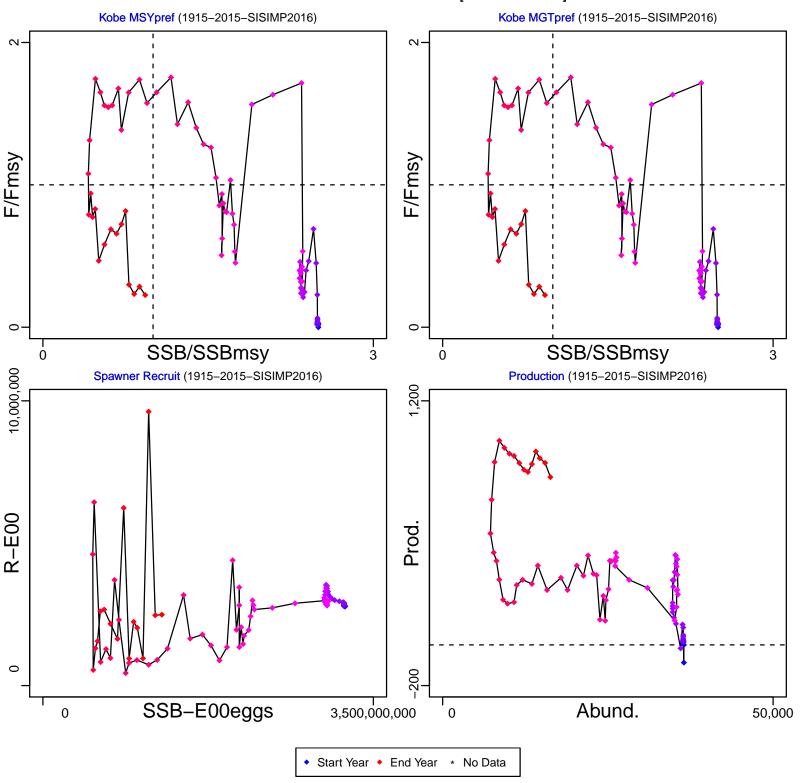


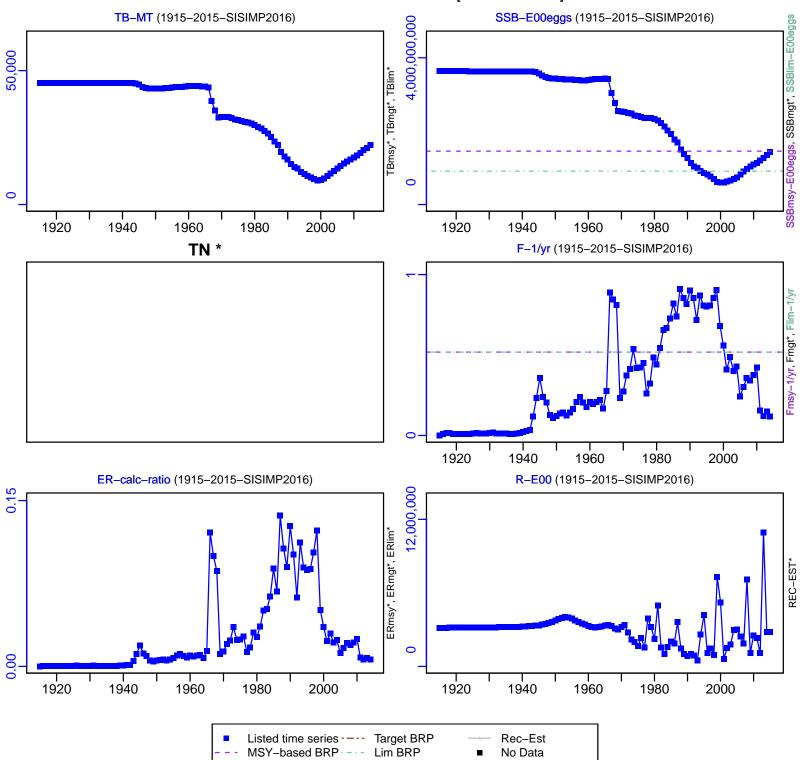


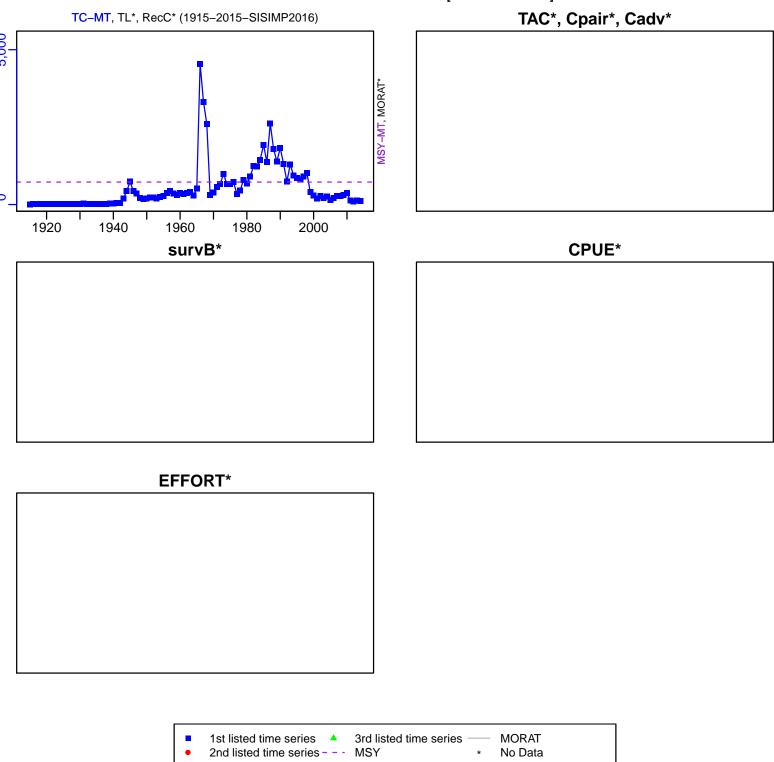
Metadata			
Scientific Name	Sebastes crameri		
Current Assess ID	NWFSC-DKROCKPCOAST-1915-2015-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2011		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00eggs	2015	$1.28 \times 10^{9}$	
Fmsy	Fmsy-1/yr	2015	0.5	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	32,710	
SSB0	SSB0-E00eggs	2011	$2.92 \times 10^{12}$	
MSY	MSY-MT	2015	674	
М	M-1/yr	2011	0.07	
TBlim	-	-	-	
SSBlim	SSBlim-E00eggs	2015	$8 \times 10^{8}$	
Flim	Flim-1/yr	2015	0.5	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	17,900	-	1+
SSB	SSB-E00eggs	2015	$1.26 \times 10^{9}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2,490,000	-	0
F	F-1/yr	2015	0.113	-	-
ER	ER-calc-ratio	2015	0.006	-	-
TC	TC-MT	2015	104		
TL	TL-MT	2011	183		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.985		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.226		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





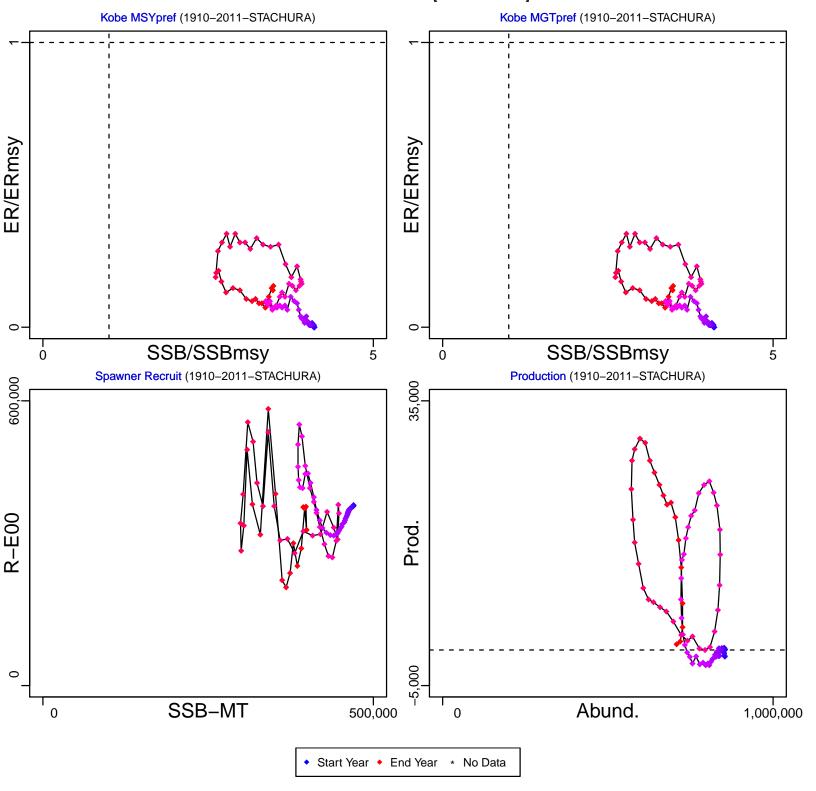


# **Dover sole Pacific Coast [DSOLEPCOAST]**

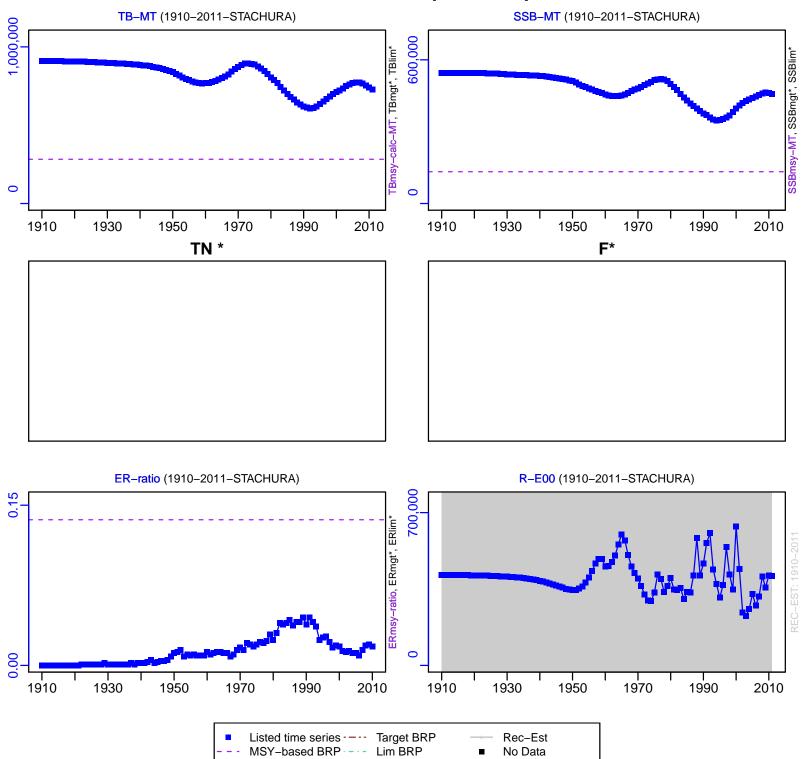
Metadata			
Scientific Name	Microstomus pacificus		
Current Assess ID	SWFSC-DSOLEPCOAST-1910-2011-STACHURA		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	265,321	
SSBmsy	SSBmsy-MT	2011	114,398	
Fmsy	-	-	-	
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	2011	34,757	
М	M-1/yr	2011	0.101	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

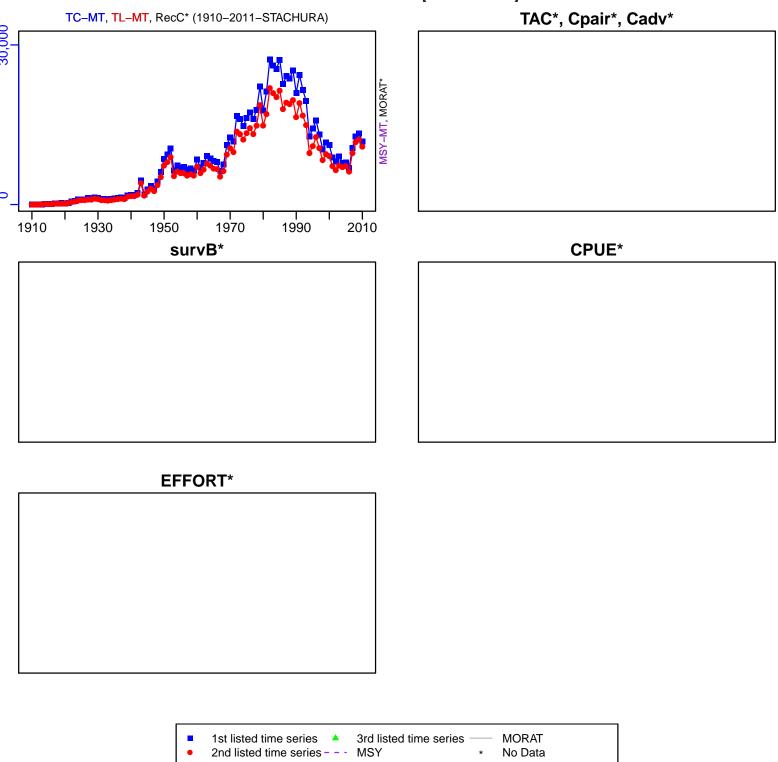
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	685,000	-	0+
SSB	SSB-MT	2011	394,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2011	376,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2011	0.017	Both	5+
TC	TC-MT	2011	11,300		
TL	TL-MT	2011	10,400		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	2.582		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	3.444		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### **Dover sole Pacific Coast [DSOLEPCOAST]**



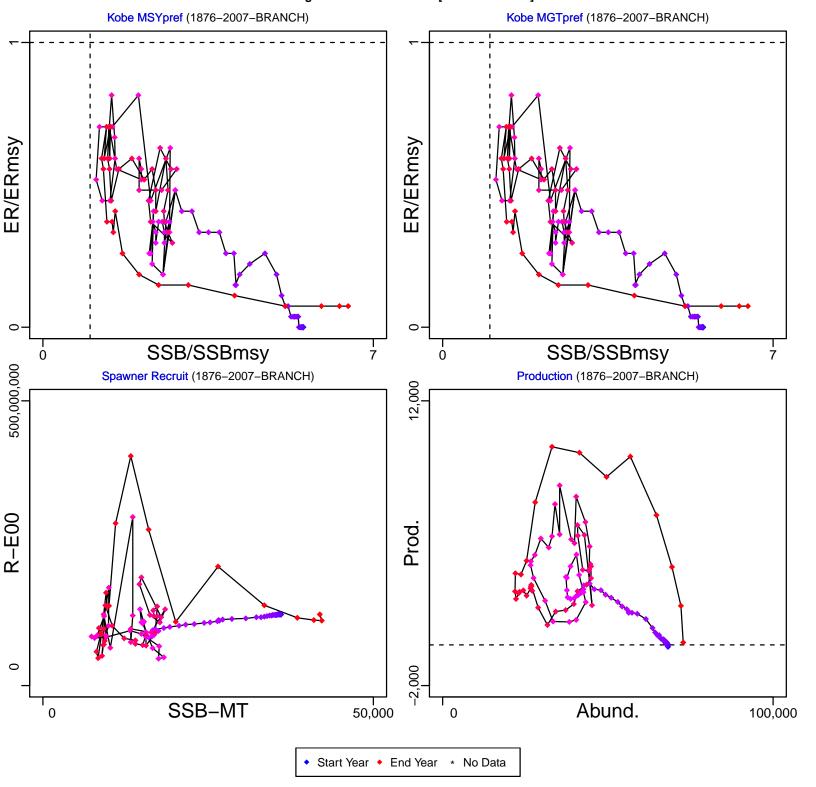
## **Dover sole Pacific Coast [DSOLEPCOAST]**

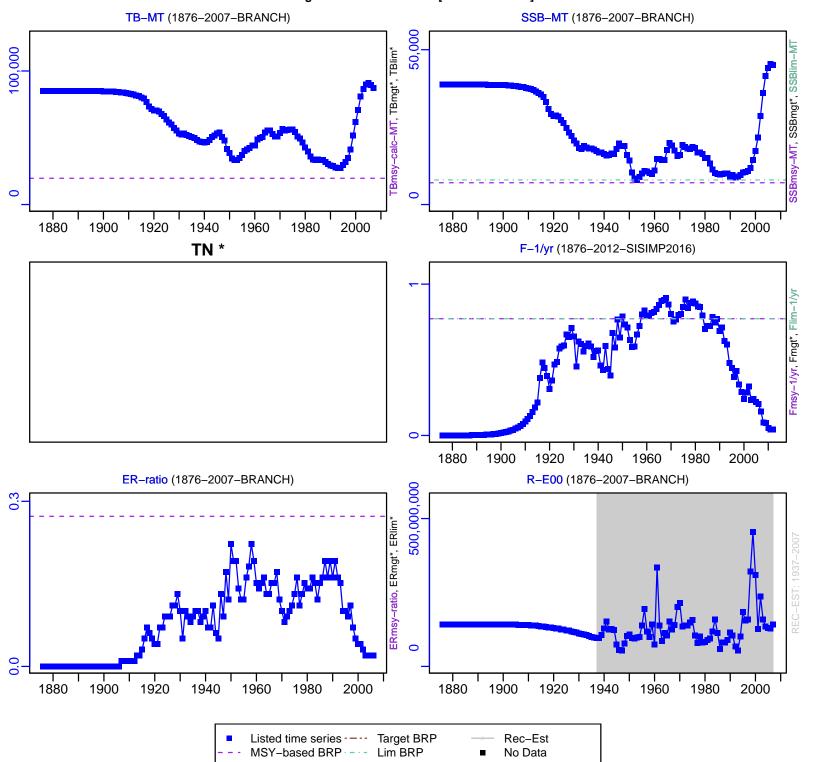


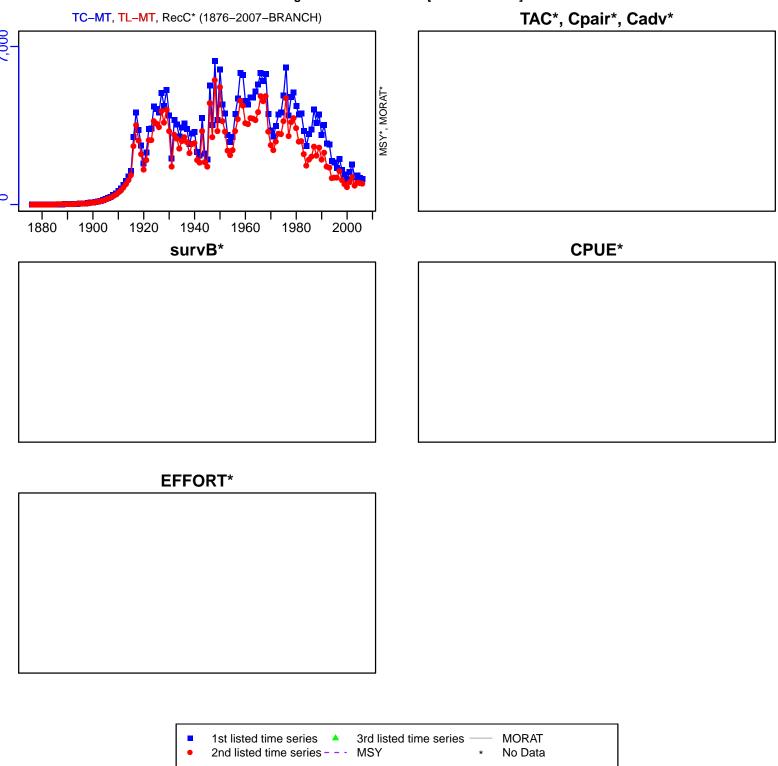
Metadata			
Scientific Name	Parophrys vetulus		
Current Assess ID	NWFSC-ESOLEPCOAST-1876-2012-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2007, 2012		

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	$1.25 \times 10^{8}$	-	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	-	-	-		



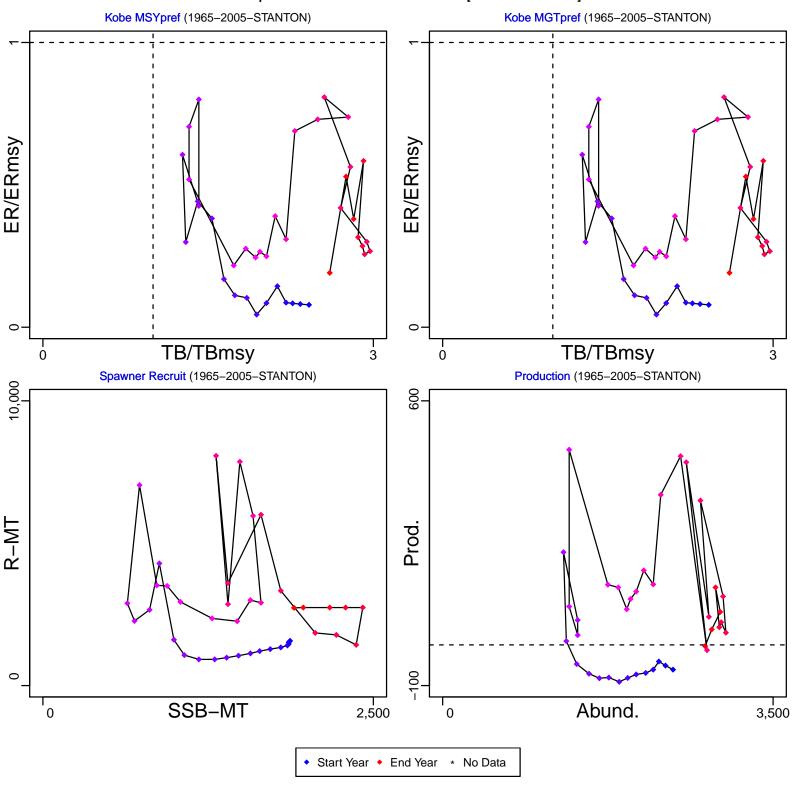


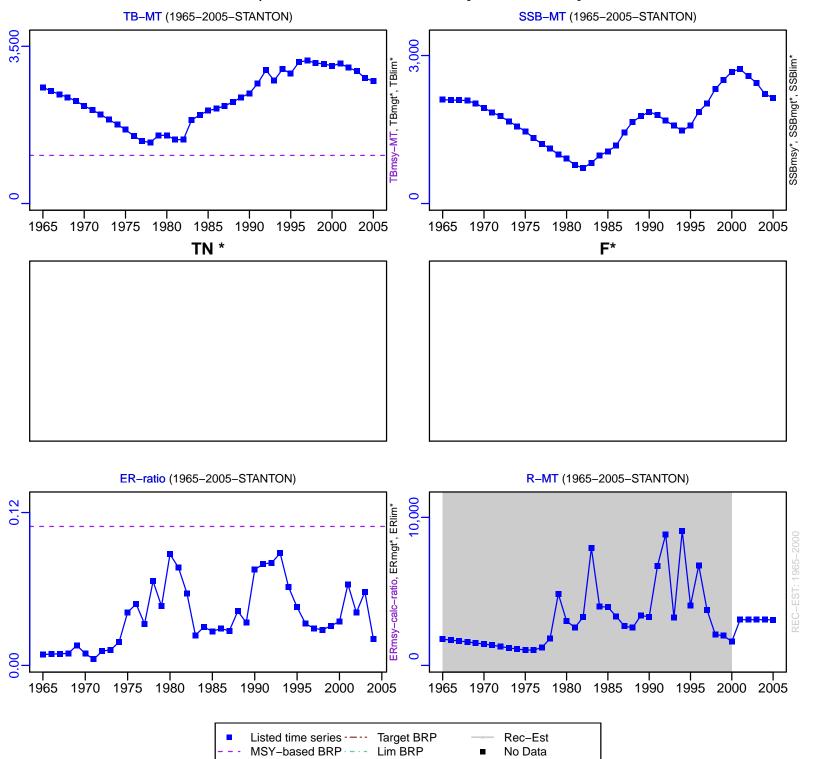


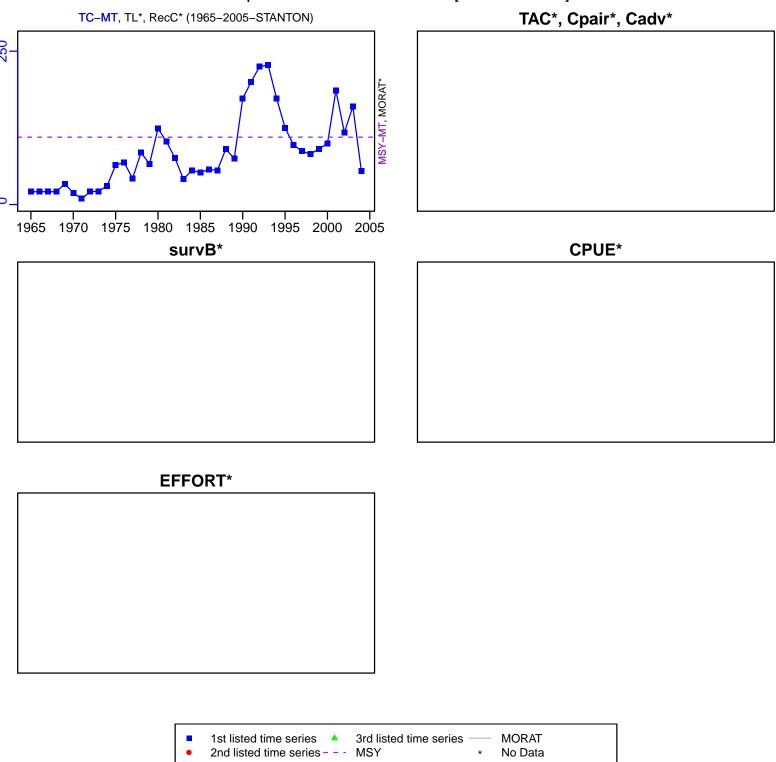
Metadata			
Scientific Name	Sebastes carnatus		
Current Assess ID	SWFSC-GOPHERSPCOAST-1965-2005-STANTON		
Area Southern Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

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	-	-	-		







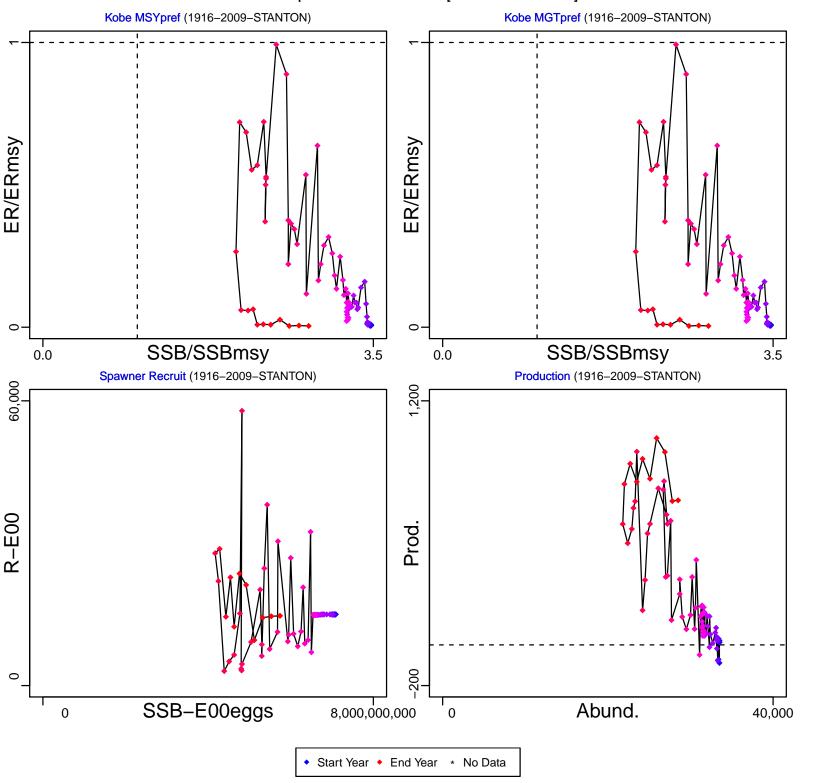
# **Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]**

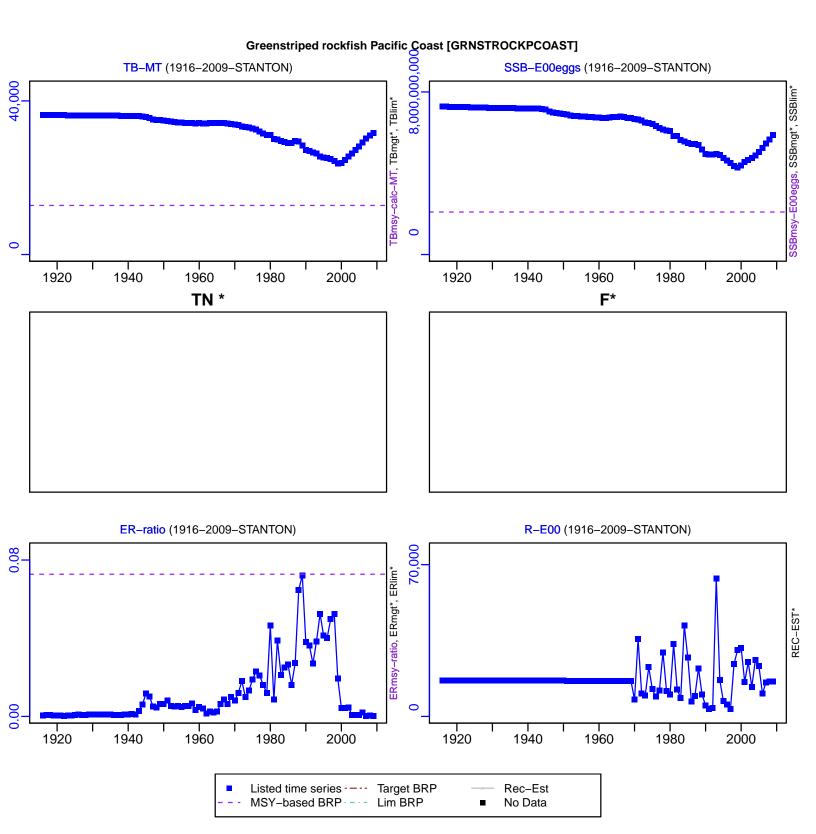
Metadata				
Scientific Name	Sebastes elongatus			
Current Assess ID	PFMC-GRNSTROCKPCOAST-1916-2009-STANTON			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Pacific Fishery Management Council			
Asmts in RAM	2009			

Reference Points						
Туре	ID	Asmt Year				
TBmsy	TBmsy-calc-MT	2009	11,774			
SSBmsy	SSBmsy-E00eggs	2009	$2.039 \times 10^{9}$			
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	-	-	-			

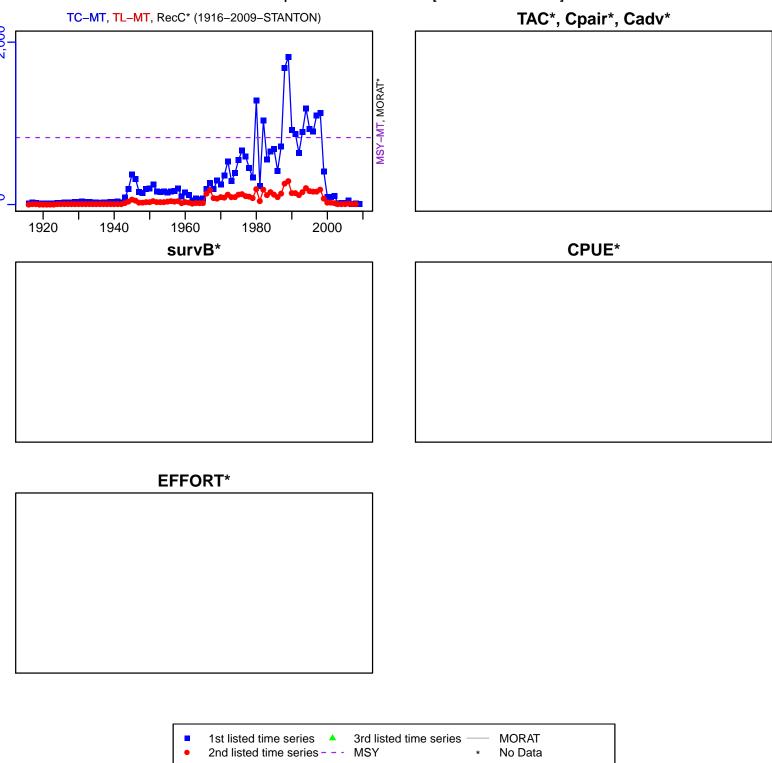
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2009	29,200	-	2+		
SSB	SSB-E00eggs	2009	$5.74 \times 10^{9}$	Females	-		
TN	-	-	-	-	-		
R	R-E00	2009	14,700	-	0		
F	-	-	-	-	-		
ER	ER-ratio	2009	0	-	-		
TC	TC-MT	2009	9				
TL	TL-MT	2009	3.39				
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.48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



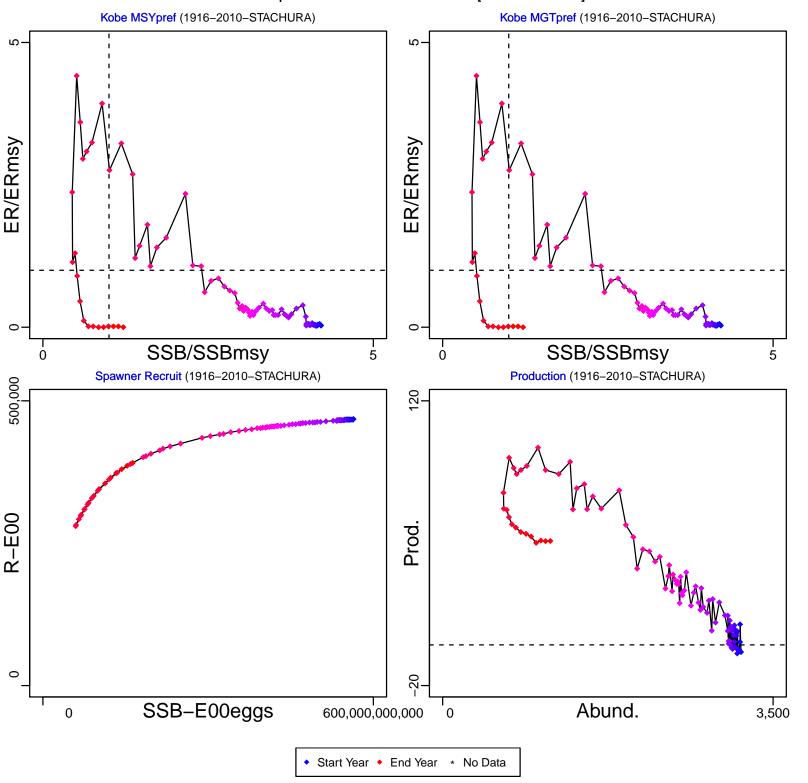
# **Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]**

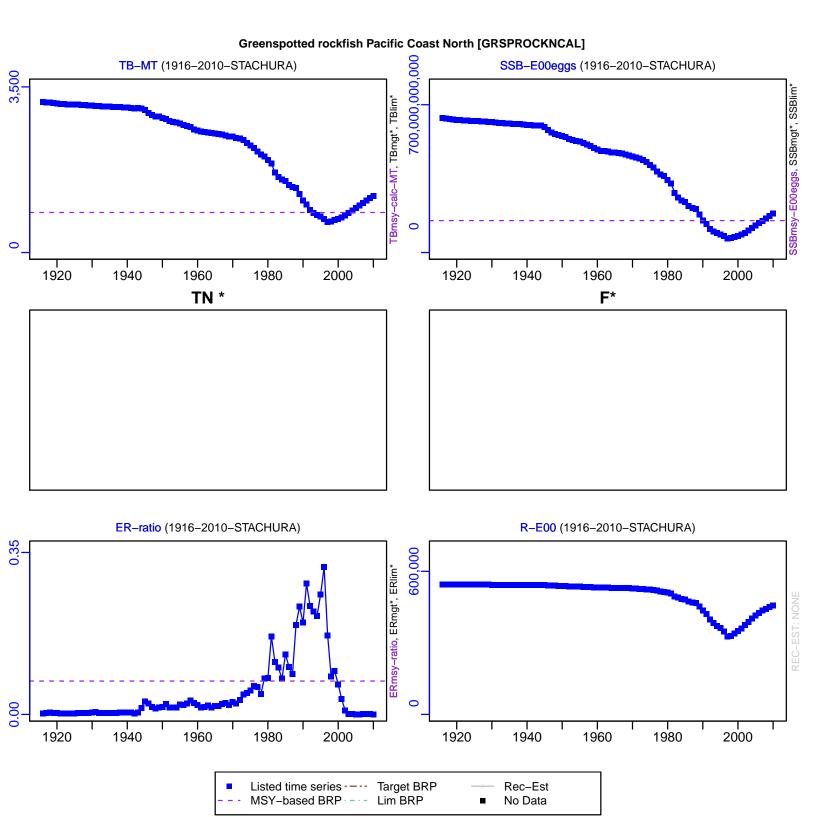
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID	SWFSC-GRSPROCKNCAL-1916-2010-STACHURA		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2010		

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

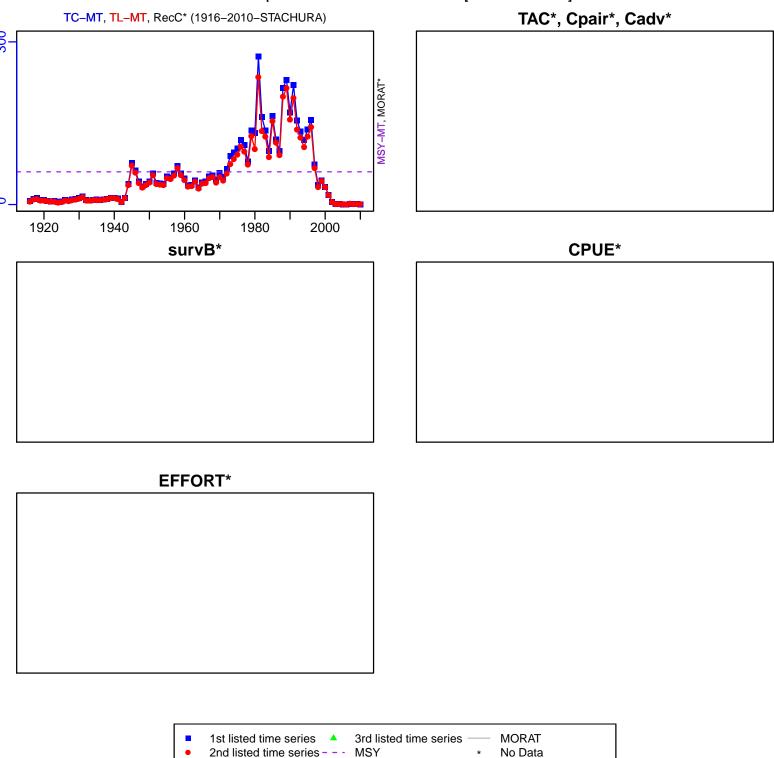
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1190	-	0+
SSB	SSB-E00eggs	2010	$1.63 \times 10^{11}$	Females	-
TN	-	-	-	-	-
R	R-E00	2010	391,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	0.4		
TL	TL-MT	2010	0.37		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.417		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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

#### Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]





### **Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]**



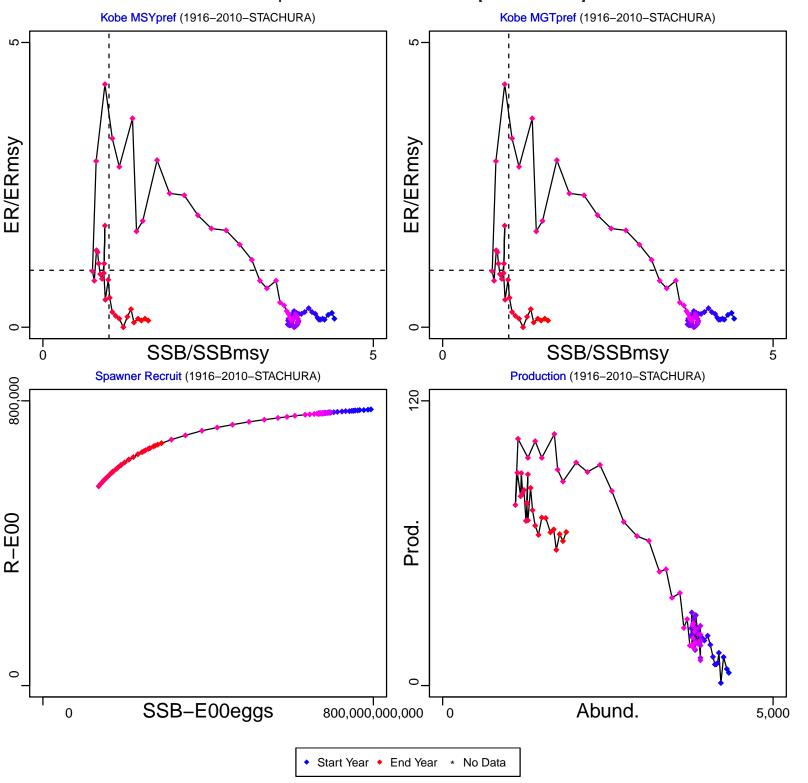
# **Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]**

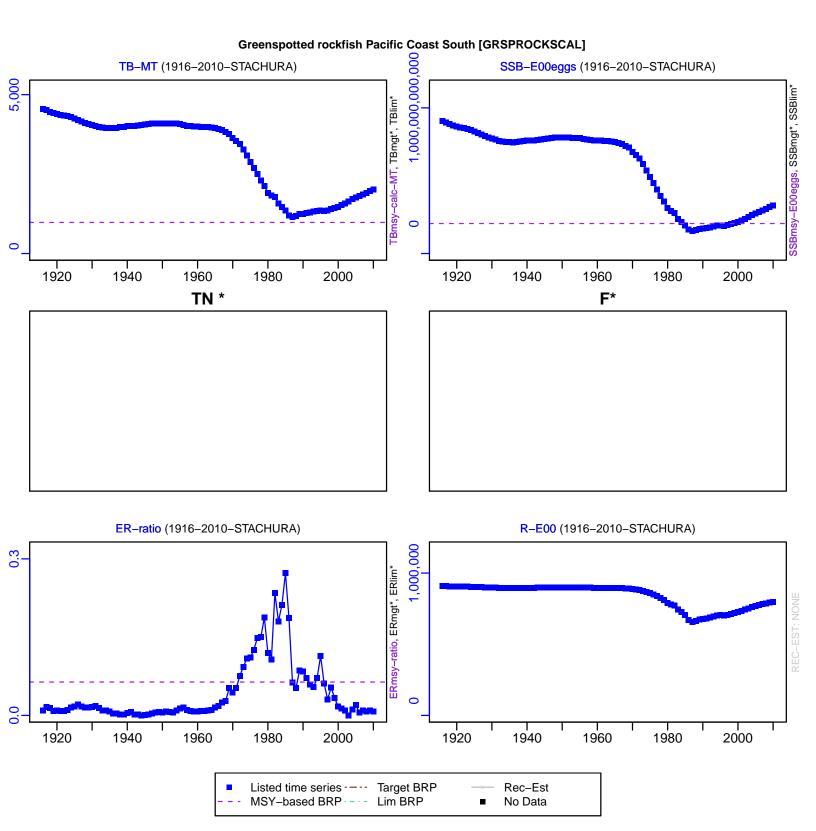
Metadata			
Scientific Name	Sebastes chlorostictus		
Current Assess ID	SWFSC-GRSPROCKSCAL-1916-2010-STACHURA		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2010		

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

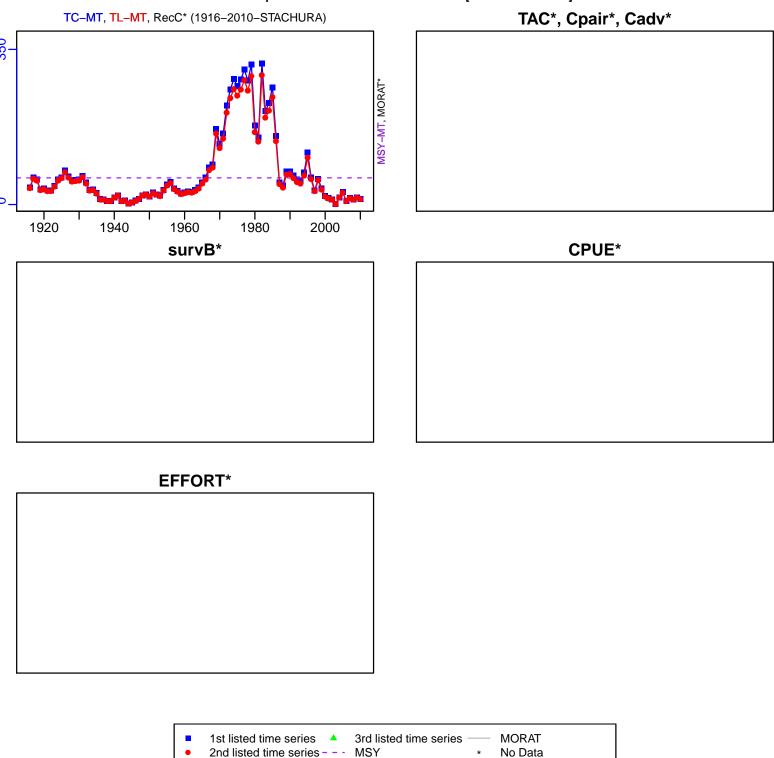
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	1920	-	0+
SSB	SSB-E00eggs	2010	$2.87 \times 10^{11}$	Females	-
TN	-	-	-	-	-
R	R-E00	2010	681,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0.007	-	-
TC	TC-MT	2010	11		
TL	TL-MT	2010	11		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.061		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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

#### Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]





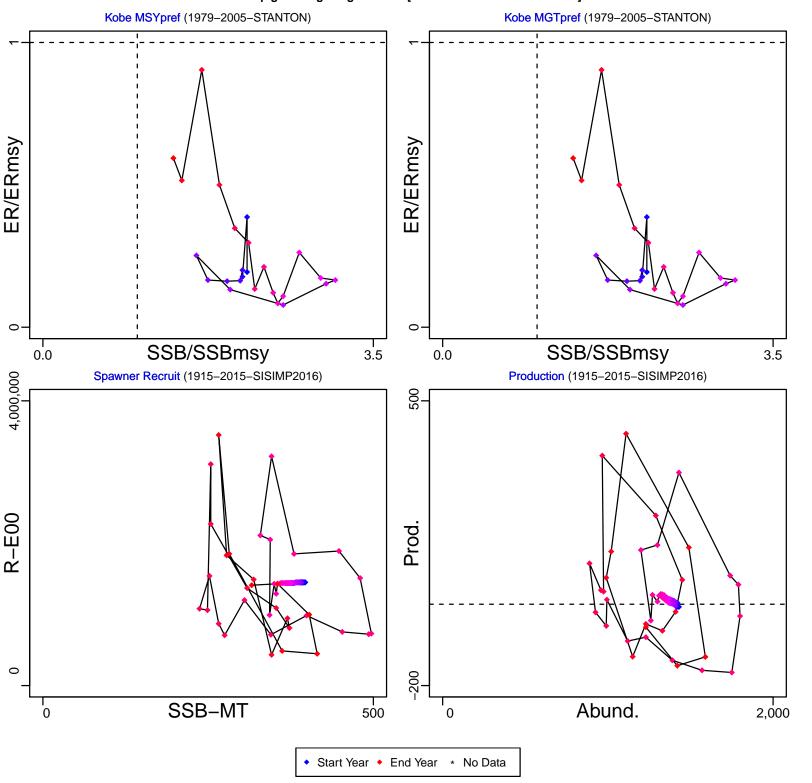
### Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]

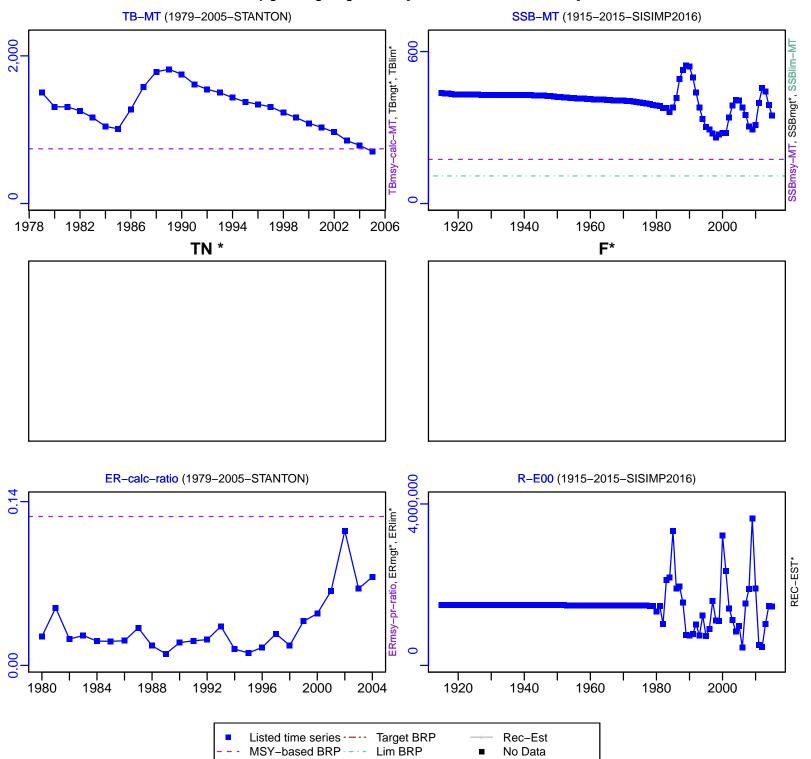


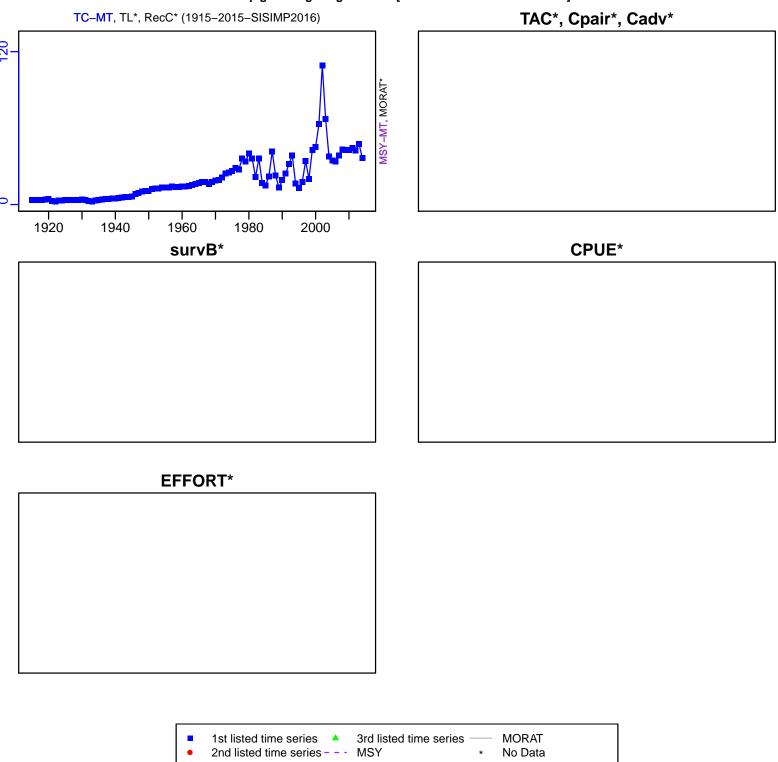
Metadata			
Scientific Name	Hexagrammos decagrammus		
Current Assess ID	NWFSC-KELPGREENLINGORECOAST-1915-2015-SISIMP2016		
Area Oregon Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2015, 2005		

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	-	-	-		



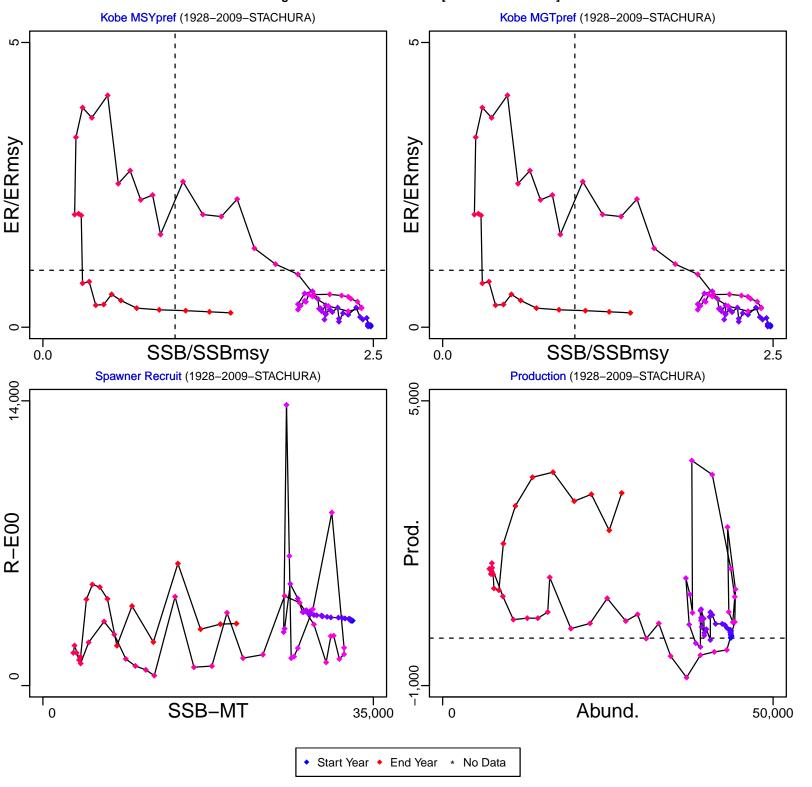


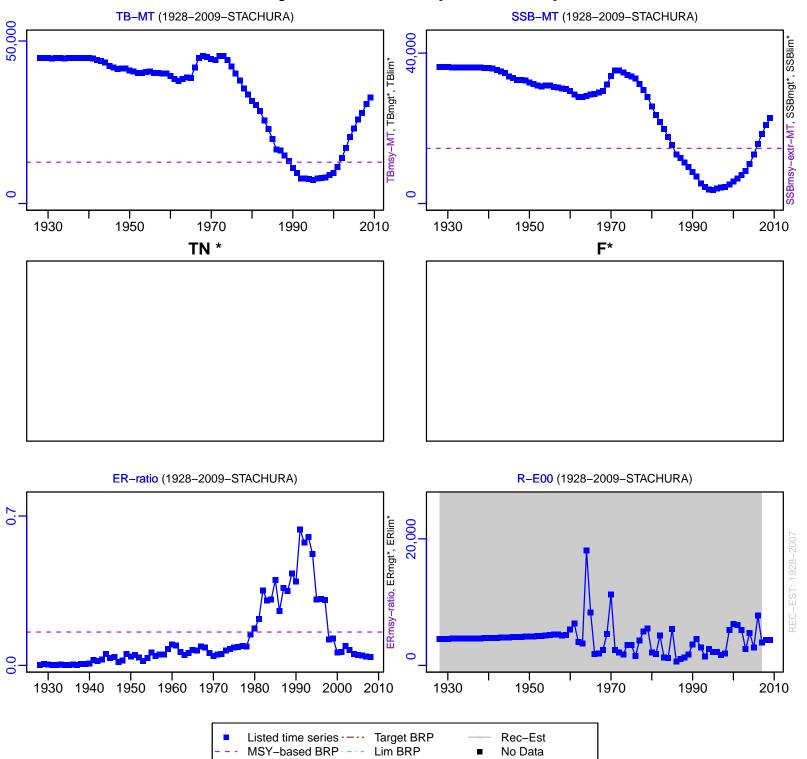


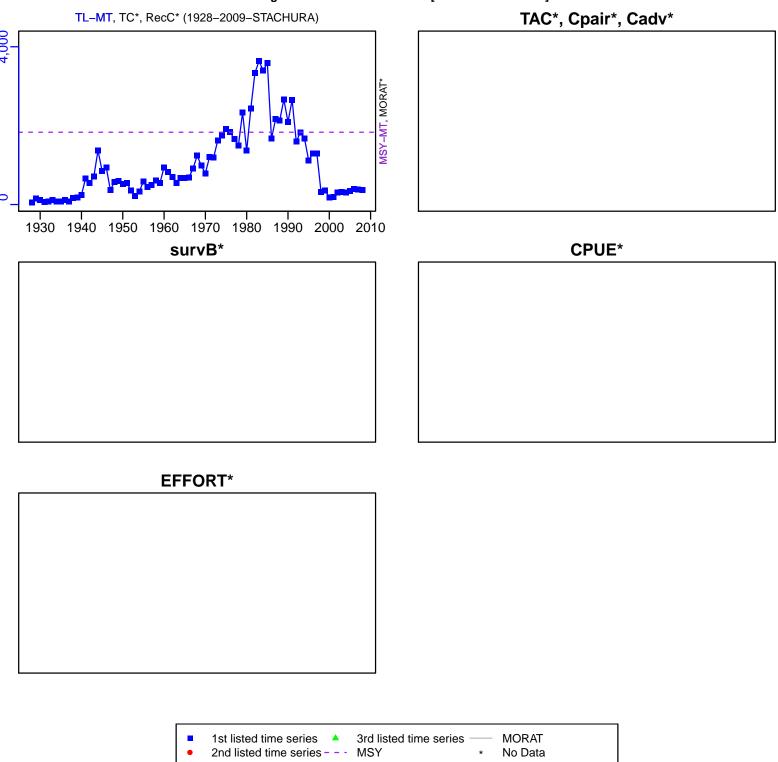
Metadata			
Scientific Name	Ophiodon elongatus		
Current Assess ID NWFSC-LINGCODNPCOAST-1928-2009-STACHURA			
Area Northern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Assessor Northwest Fisheries Science Center		
Asmts in RAM	2009		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2009	12,386	
SSBmsy	SSBmsy-extr-MT	2009	13,233	
Fmsy	-	-	-	
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	2009	1734	
М	M-1/yr	2009	0.18	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	31,800	-	2+
SSB	SSB-MT	2009	20,500	Females	4.6
TN	-	-	-	-	-
R	R-E00	2009	3050	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0.035	-	-
TC	-	-	-		
TL	TL-MT	2009	350		
TB/TBmsy	TB-MT/TBmsy-MT	2009	2.567		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2009	1.55		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.253		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



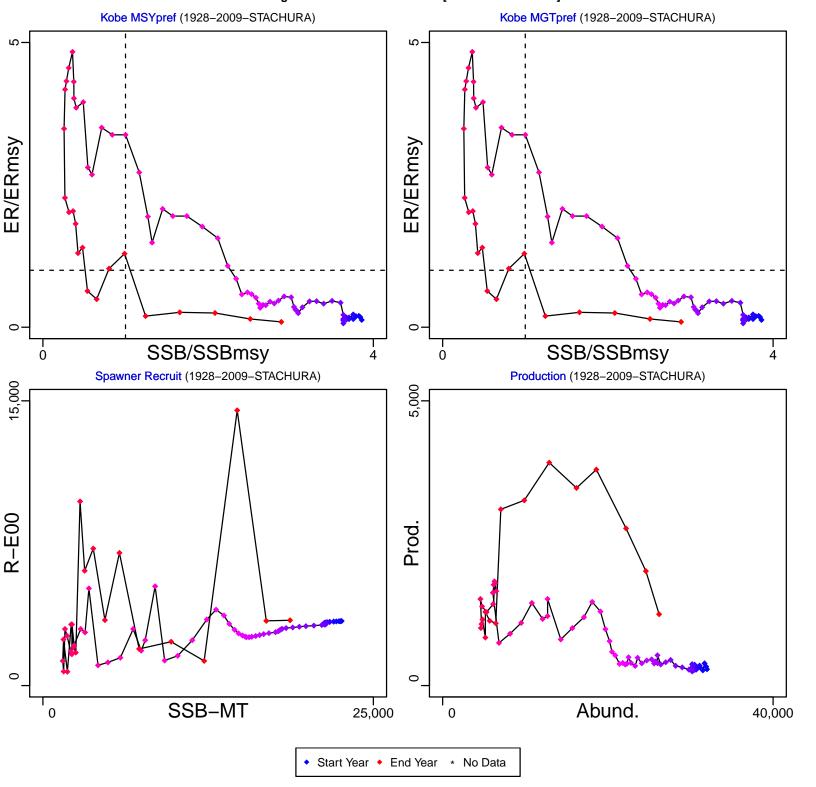


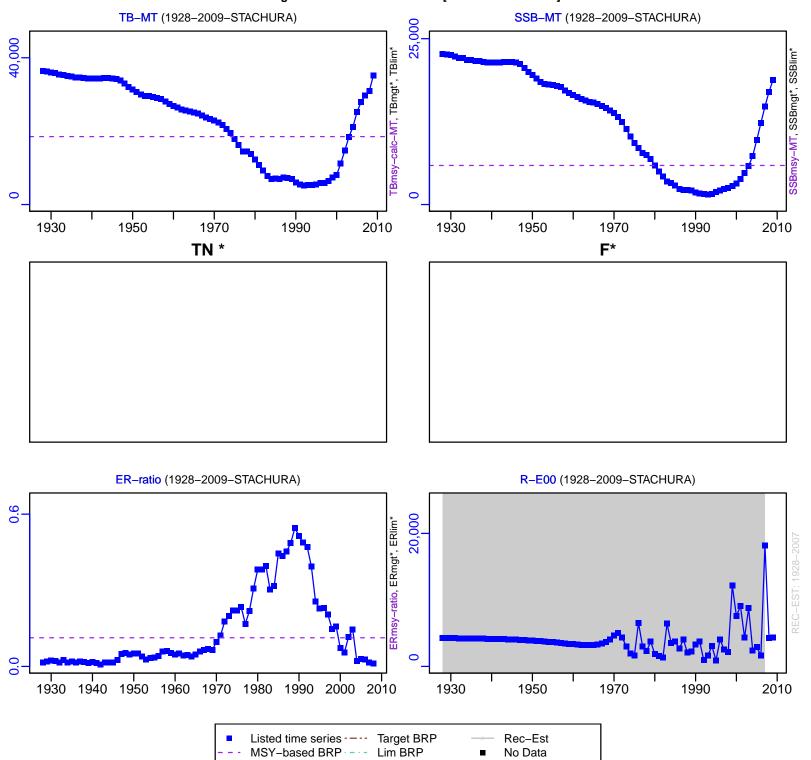


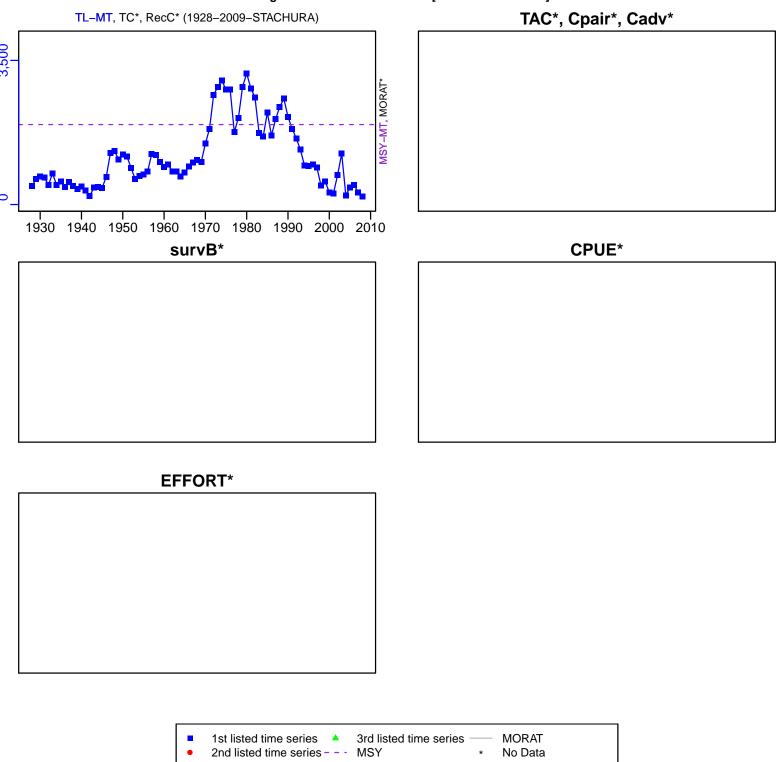
Metadata			
Scientific Name	Ophiodon elongatus		
Current Assess ID NWFSC-LINGCODSPCOAST-1928-2009-STACHURA			
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2009		

Reference Points					
Type	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2009	16,291		
SSBmsy	SSBmsy-MT	2009	5856		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2009	0.103		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2009	25,311		
MSY	MSY-MT	2009	1678		
М	M-1/yr	2009	0.18		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	30,900	-	2+
SSB	SSB-MT	2009	18,700	Females	5
TN	-	-	-	-	-
R	R-E00	2009	3440	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0.01	-	-
TC	-	-	-		
TL	TL-MT	2009	171		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	1.897		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	3.193		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.093		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



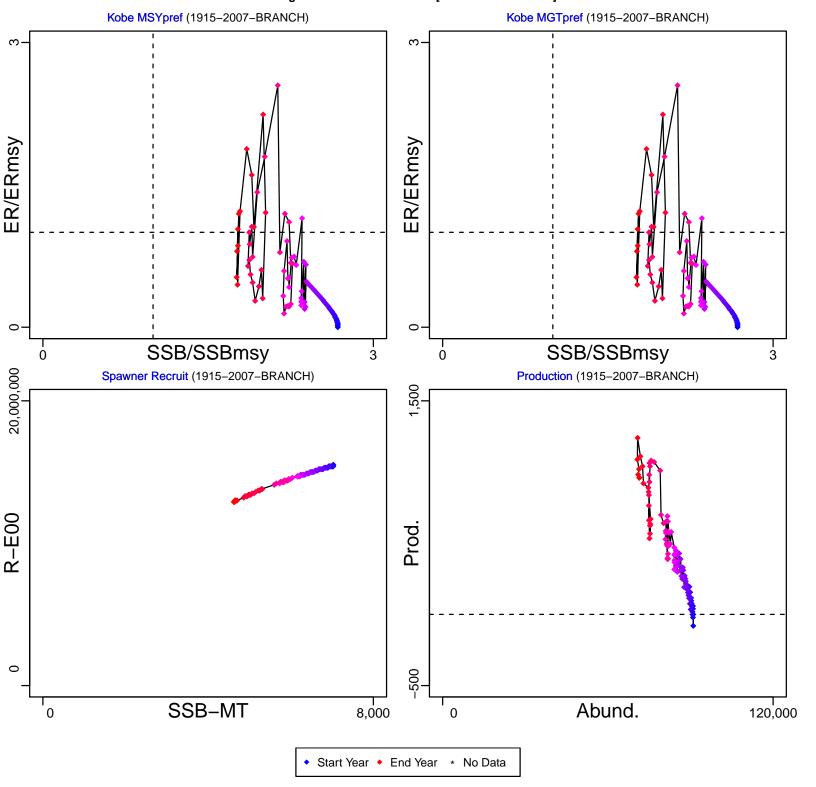


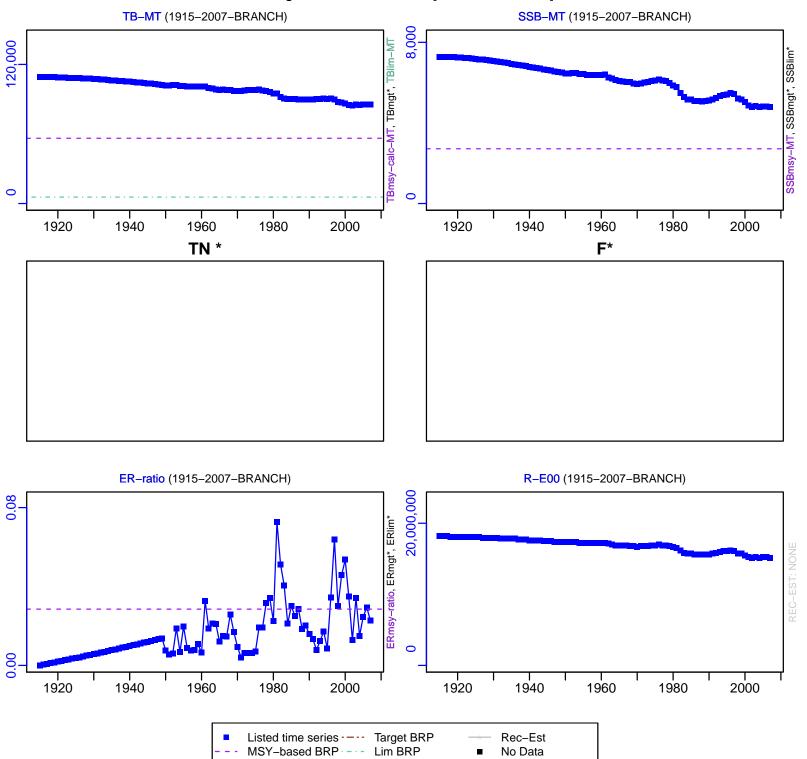


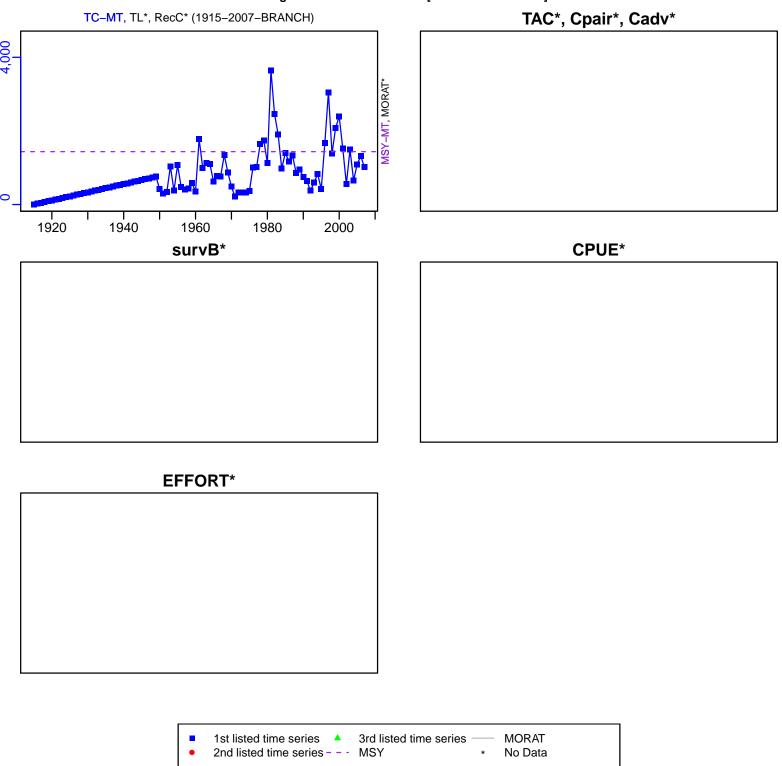
Metadata			
Scientific Name	Raja rhina		
Current Assess ID	NWFSC-LNOSESKAPCOAST-1915-2007-BRANCH		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2007		

Reference Points					
Type	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2007	46,963		
SSBmsy	SSBmsy-MT	2007	2626		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2007	0.027		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2007	7034		
MSY	MSY-MT	2007	1268		
М	M-1/yr	2007	0.2		
TBlim	TBlim-MT	2007	4617		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	71,200	-	0+
SSB	SSB-MT	2007	4630	Females	-
TN	-	-	-	-	-
R	R-E00	2007	12,900,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2007	0.022	-	-
TC	TC-MT	2007	899		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.516		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	1.763		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.8		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



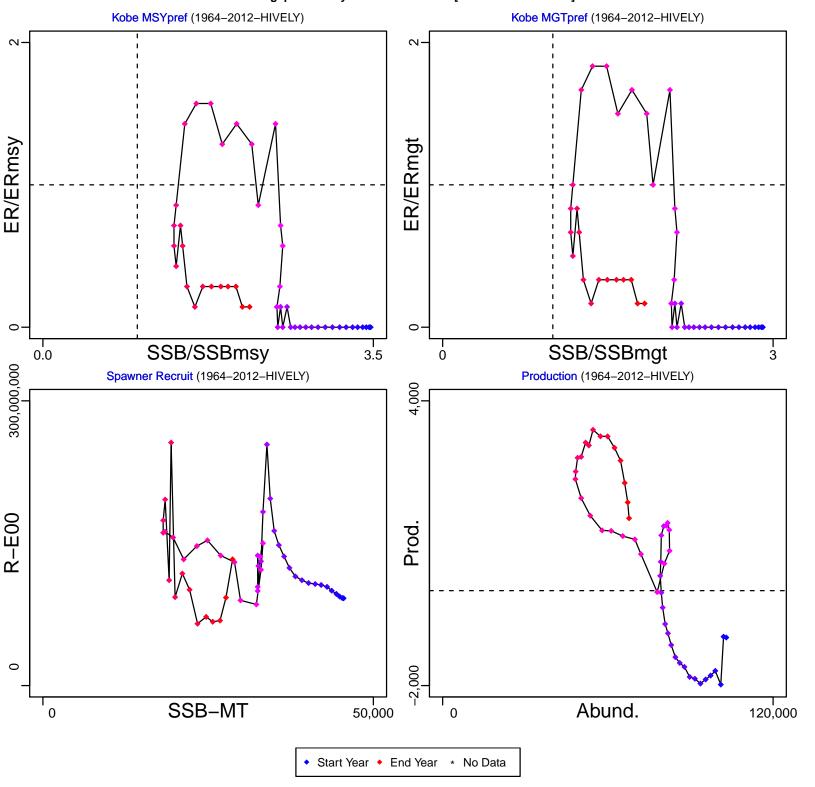


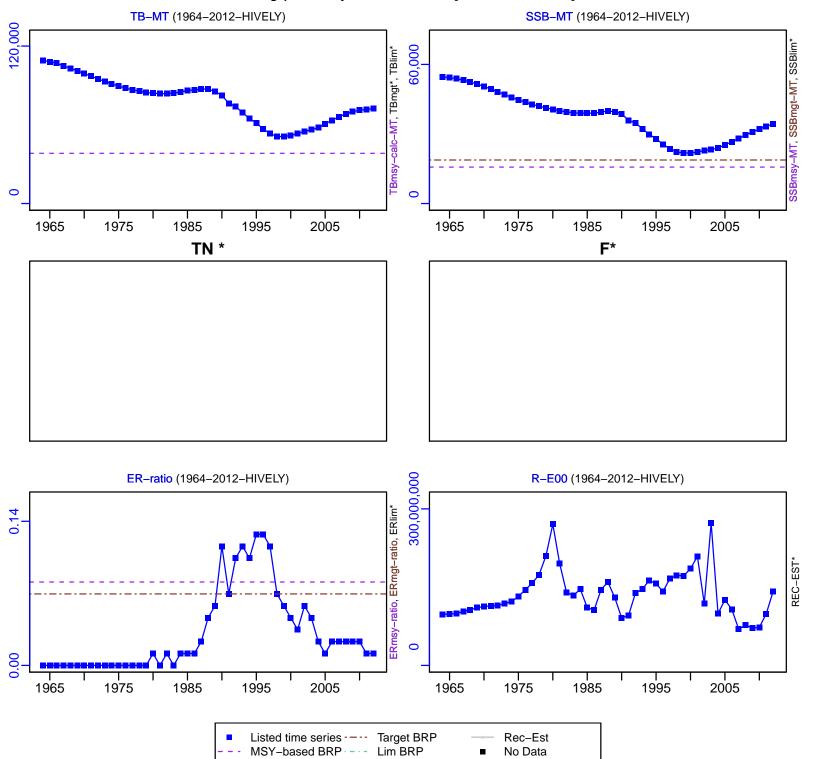


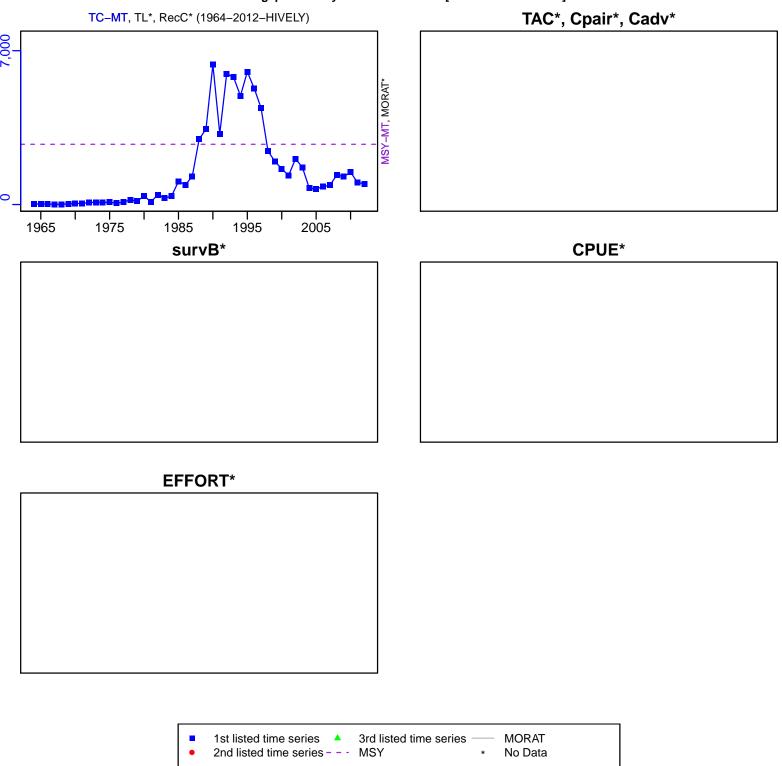
Metadata			
Scientific Name	Sebastolobus altivelis		
Current Assess ID NWFSC-LSTHORNHPCOAST-1964-2012-HIVELY			
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Northwest Fisheries Science Center			
Asmts in RAM	2012		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2012	36,129		
SSBmsy	SSBmsy-MT	2012	13,108		
Fmsy	-	-	-		
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	2012	2529		
М	M-1/yr	2012	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	68,300	-	2+
SSB	SSB-MT	2012	28,700	Females	12 to 15
TN	-	-	-	-	-
R	R-E00	2012	$1.33 \times 10^{8}$	-	0
F	-	-	-	-	-
ER	ER-ratio	2012	0.01	-	-
TC	TC-MT	2012	871		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	1.89		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	2.19		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.143		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.833		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





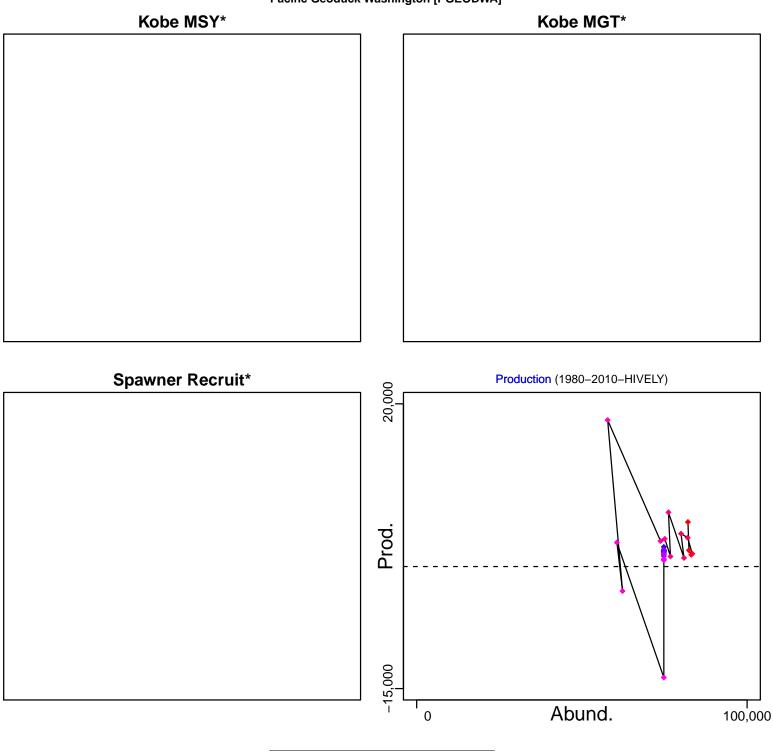


# Pacific Geoduck Washington [PGEODWA]

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		

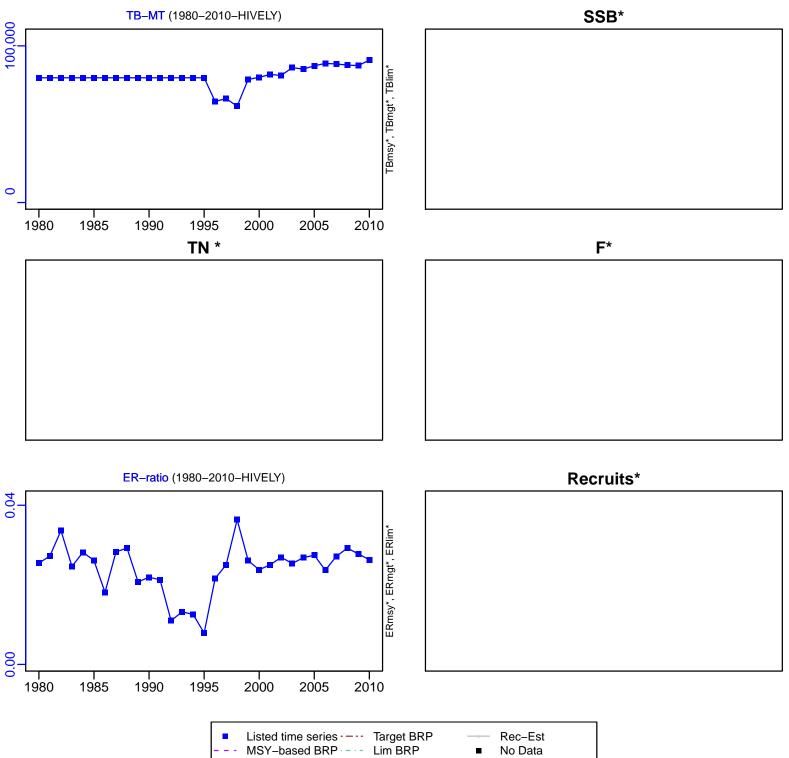
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-		



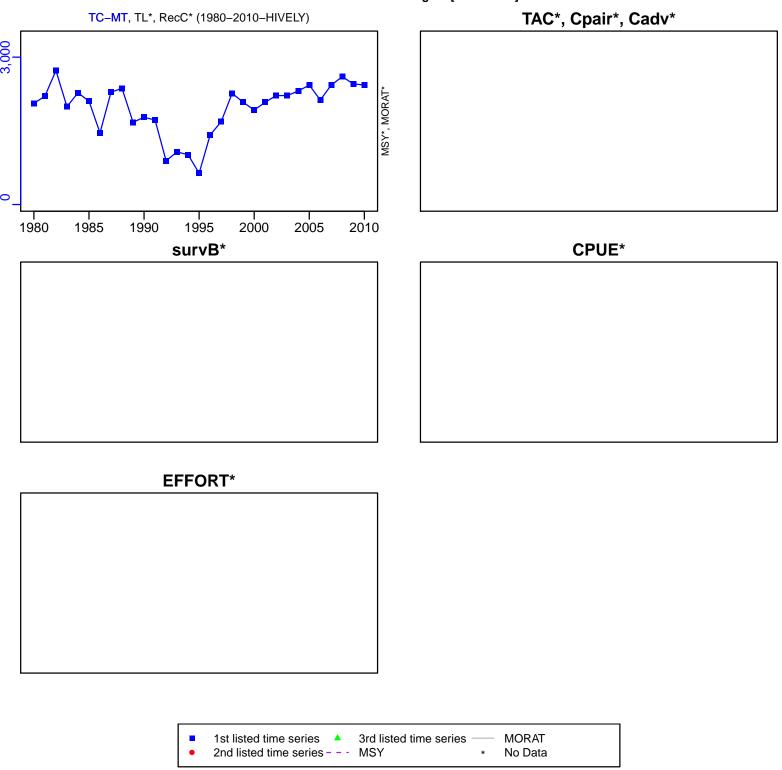
Start Year • End Year \* No Data

#### Pacific Geoduck Washington [PGEODWA]



No Data

## Pacific Geoduck Washington [PGEODWA]



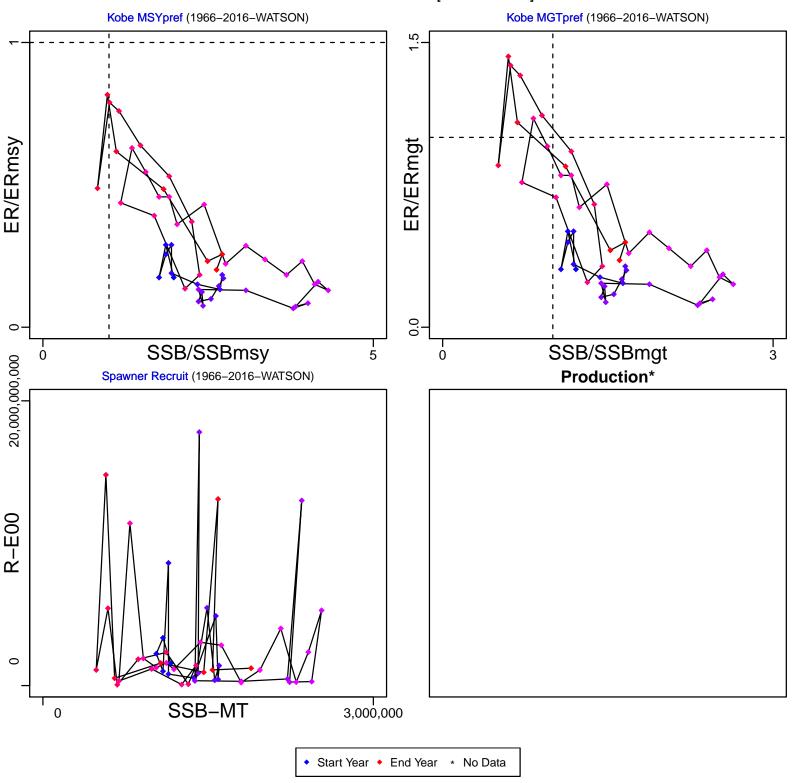
## Pacific hake Pacific Coast [PHAKEPCOAST]

Metadata				
Scientific Name	Merluccius productus			
Current Assess ID	PFMC-PHAKEPCOAST-1966-2016-WATSON			
Area	Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Pacific Fishery Management Council			
Asmts in RAM	2015, 2016			

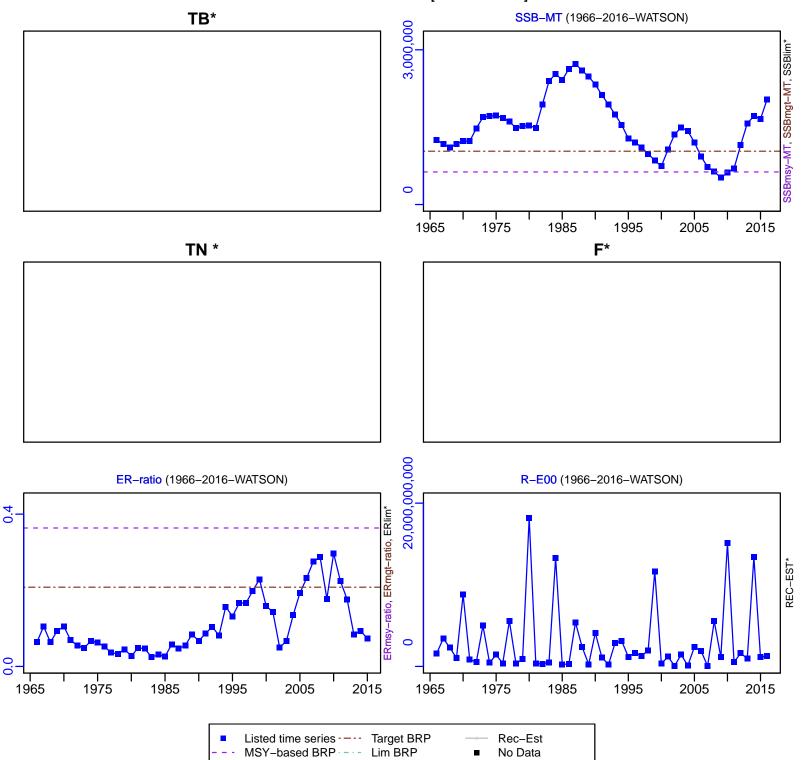
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2016	1,222,892			
SSBmsy	SSBmsy-MT	2016	586,000			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2016	0.332			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2016	959,000			
Fmgt	-	-	-			
ERmgt	ERmgt-ratio	2016	0.19			
TB0	-	-	-			
SSB0	SSB0-MT	2016	2,397,000			
MSY	MSY-MT	2016	406,000			
M	M-1/yr	2016	0.226			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERIIM	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2016	1,890,000	-	-		
TN	-	-	-	-	-		
R	R-E00	2016	$1.22 \times 10^{9}$	-	-		
F	-	-	-	-	-		
ER	ER-ratio	2016	0.067	-	-		
TC	TC-MT	2016	191,000				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	3.225				
F/Fmsy	-	-	-				
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.202				
TB/TBmgt	-	-	-	1			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.971	1			
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

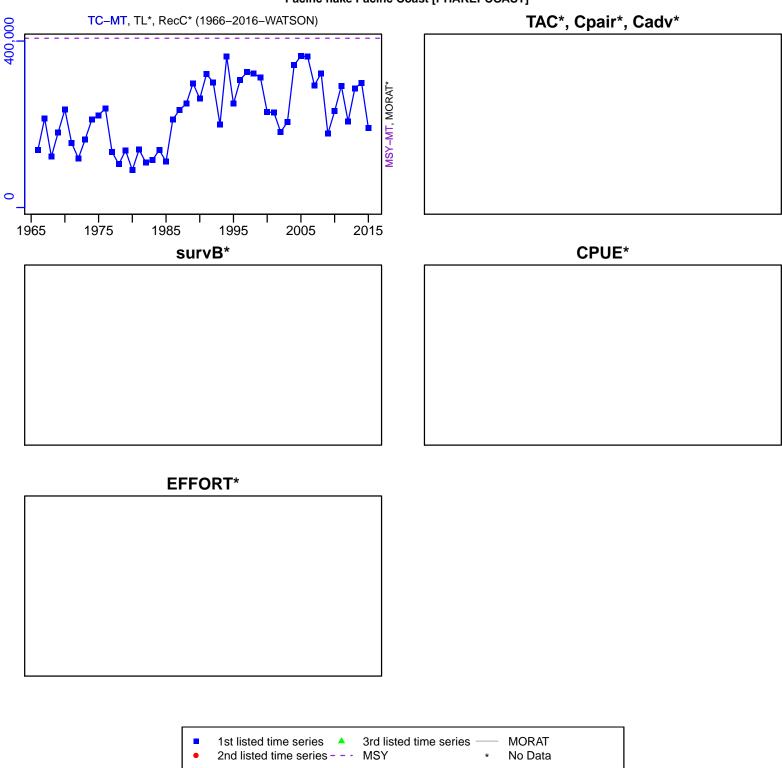
#### Pacific hake Pacific Coast [PHAKEPCOAST]



### Pacific hake Pacific Coast [PHAKEPCOAST]



### Pacific hake Pacific Coast [PHAKEPCOAST]



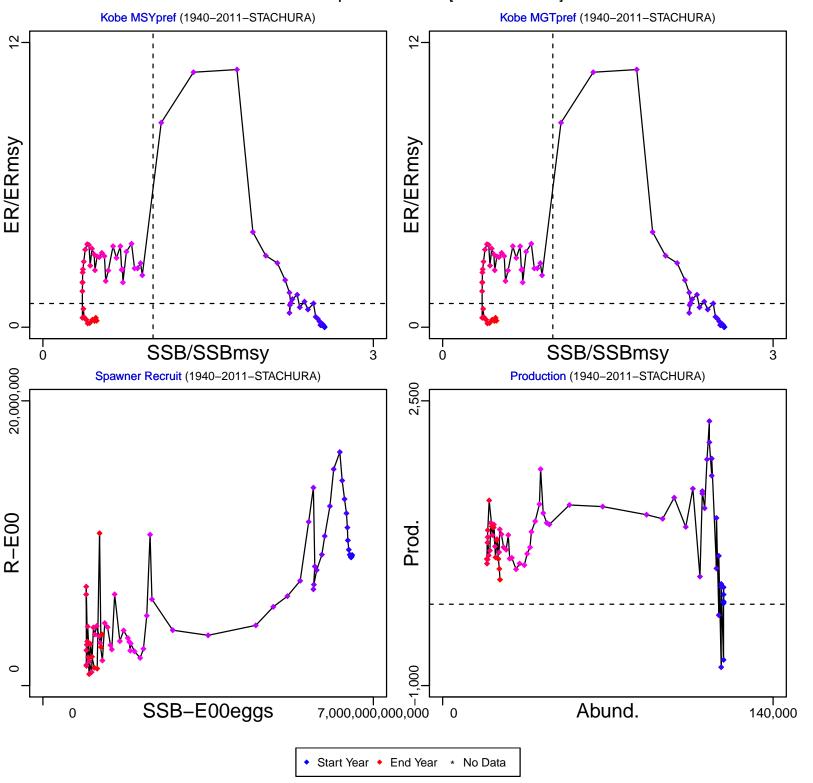
# Pacific ocean perch Pacific Coast [POPERCHPCOAST]

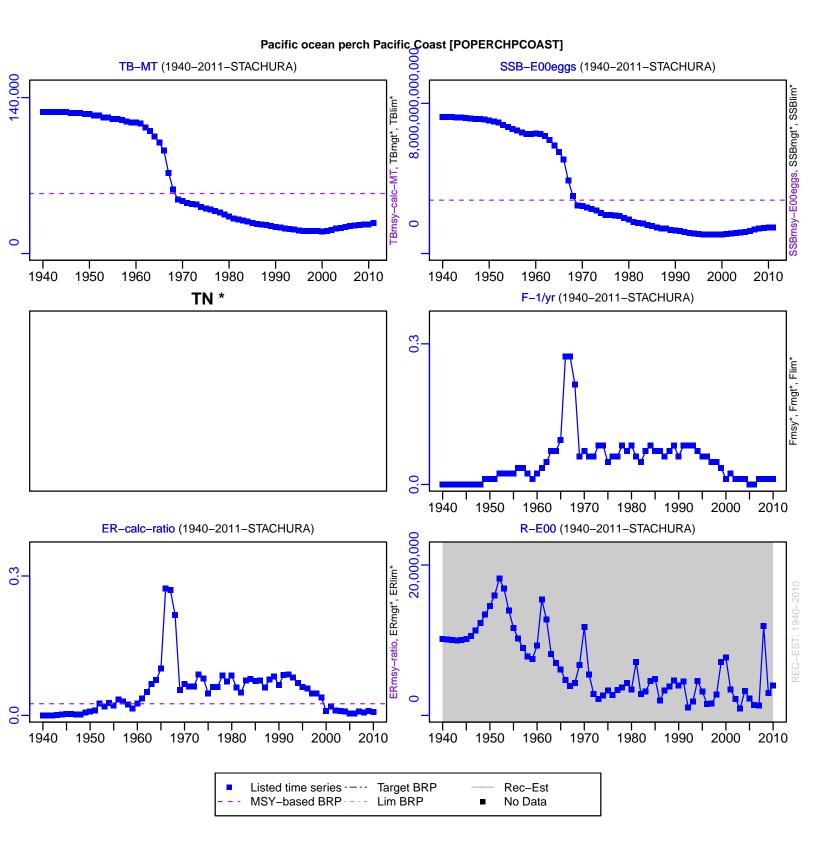
Metadata		
Scientific Name	Sebastes alutus	
Current Assess ID	NWFSC-POPERCHPCOAST-1940-2011-STACHURA	
Area	Pacific Coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	sessor Northwest Fisheries Science Center	
Asmts in RAM	2011	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	50,381
SSBmsy	SSBmsy-E00eggs	2011	$2.56 \times 10^{12}$
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2011	0.021
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-E00eggs	2011	$6.56 \times 10^{12}$
MSY	MSY-MT	2011	1058
М	M-1/yr	2011	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

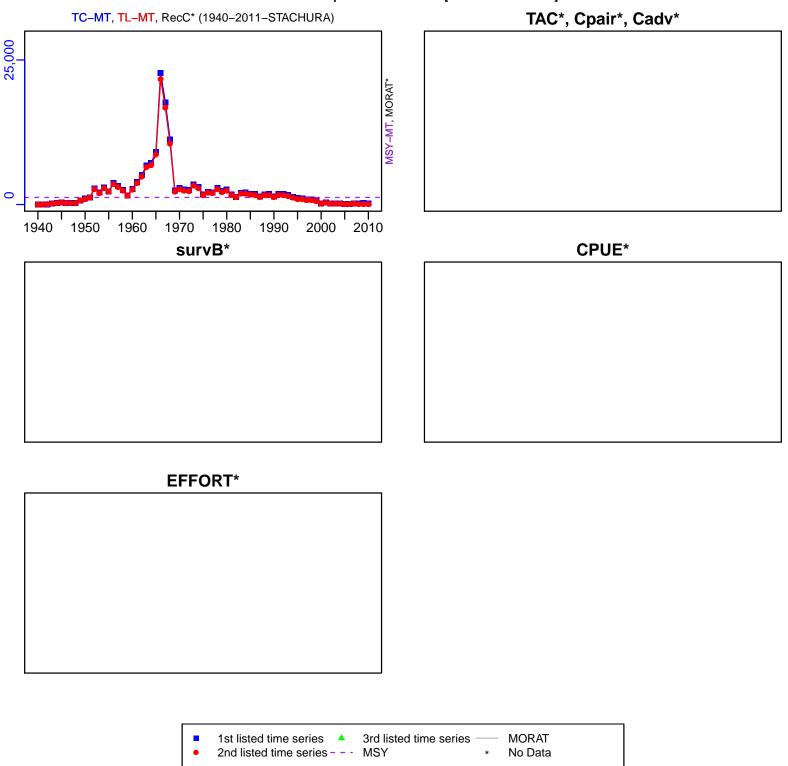
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	25,500	-	3+
SSB	SSB-E00eggs	2011	$1.25 \times 10^{12}$	-	6+
TN	-	-	-	-	-
R	R-E00	2011	3,590,000	-	0
F	F-1/yr	2011	0.01	Both	3+
ER	ER-calc-ratio	2011	0.006	-	-
TC	TC-MT	2011	141		
TL	TL-MT	2011	91		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.506		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2011	0.488		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.275		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

#### Pacific ocean perch Pacific Coast [POPERCHPCOAST]





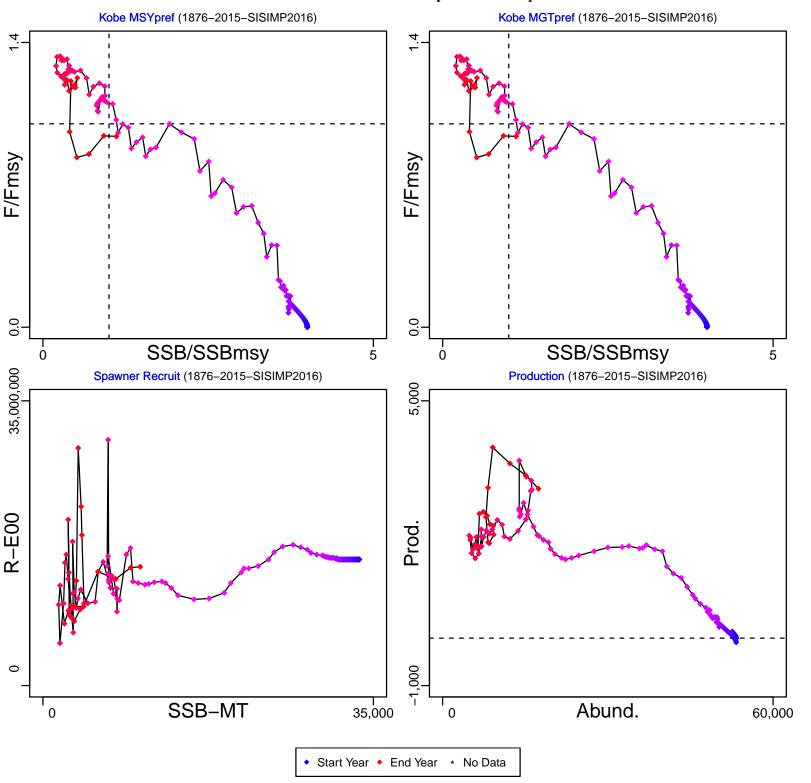
### Pacific ocean perch Pacific Coast [POPERCHPCOAST]

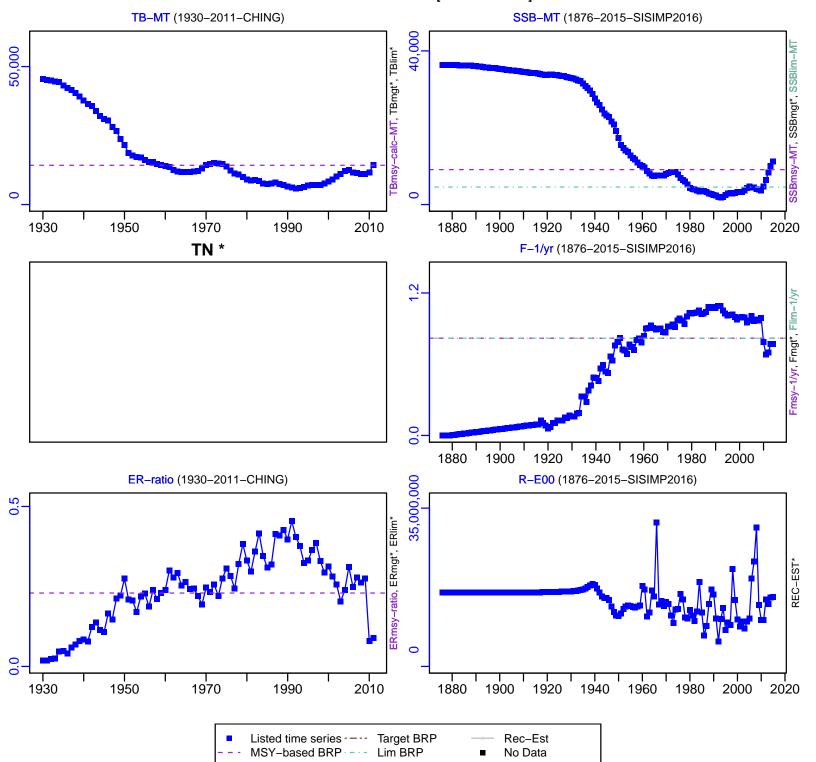


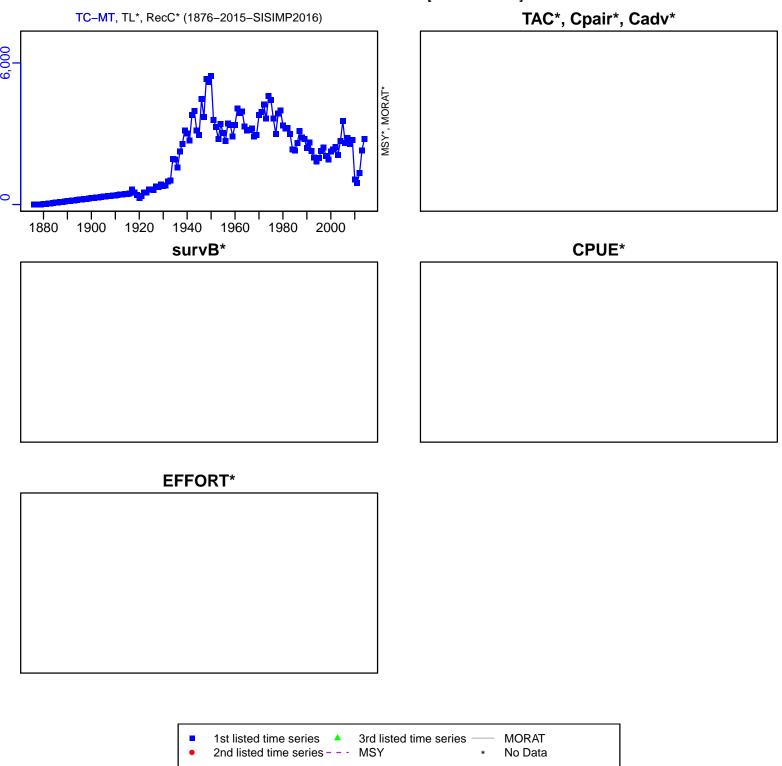
Metadata		
Scientific Name	Eopsetta jordani	
Current Assess ID	NWFSC-PSOLEPCOAST-1876-2015-SISIMP2016	
Area	Pacific Coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2015, 2011	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	11,764
SSBmsy	SSBmsy-MT	2015	8369
Fmsy	Fmsy-1/yr	2015	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	2011	2588
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	4185
Flim	Flim-1/yr	2015	0.7
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	19,400	-	3+
SSB	SSB-MT	2015	10,300	Females	-
TN	-	-	-	-	-
R	R-E00	2015	14,600,000	-	0
F	F-1/yr	2015	0.657	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2015	2360		
TL	TL-MT	2011	701		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.012		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.23		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.938		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.386		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







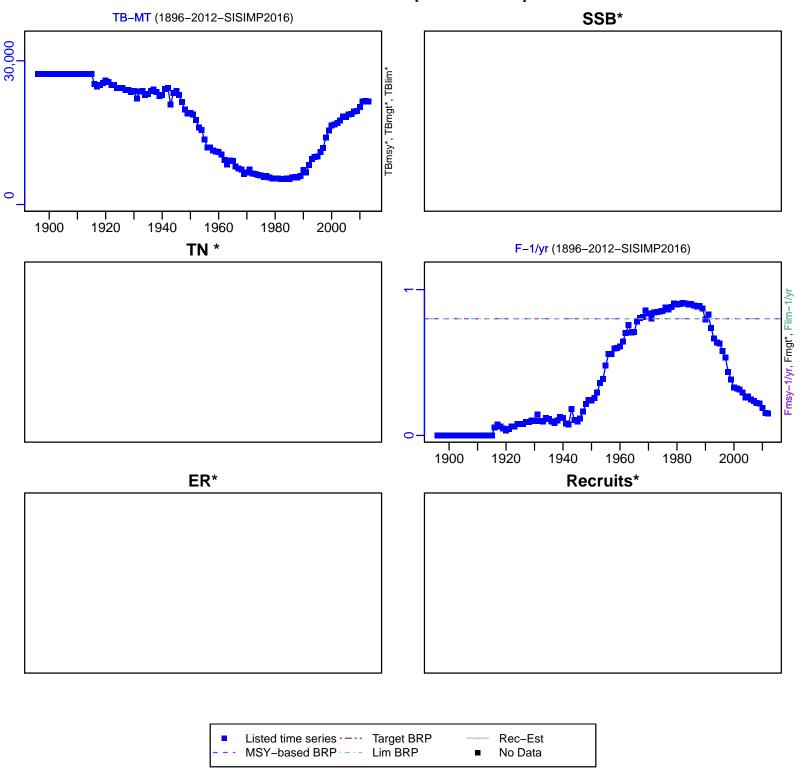
Metadata		
Scientific Name	Glyptocephalus zachirus	
Current Assess ID	NWFSC-REXSOLEPCOAST-1896-2012-SISIMP2016	
Area	Pacific Coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2012	

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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

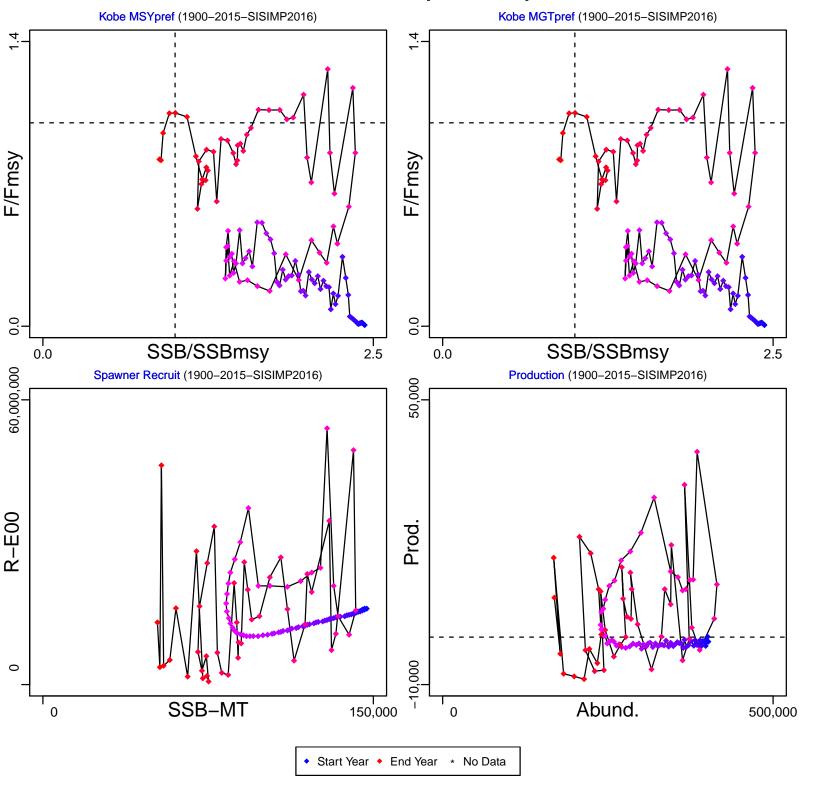


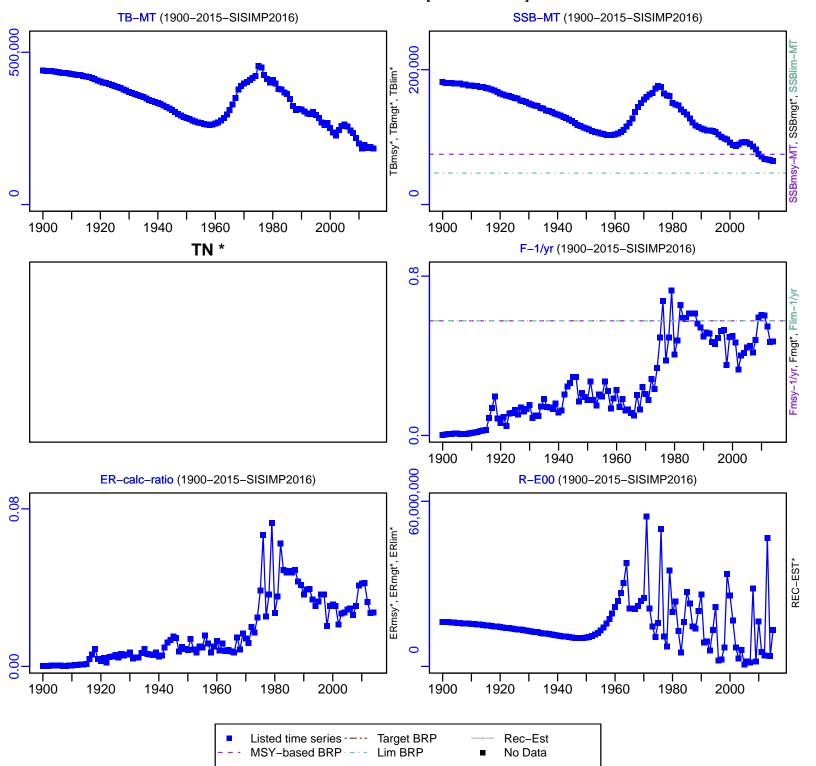
TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	
	listed time series — MORAT
2nd listed time series MS	Y * No Data

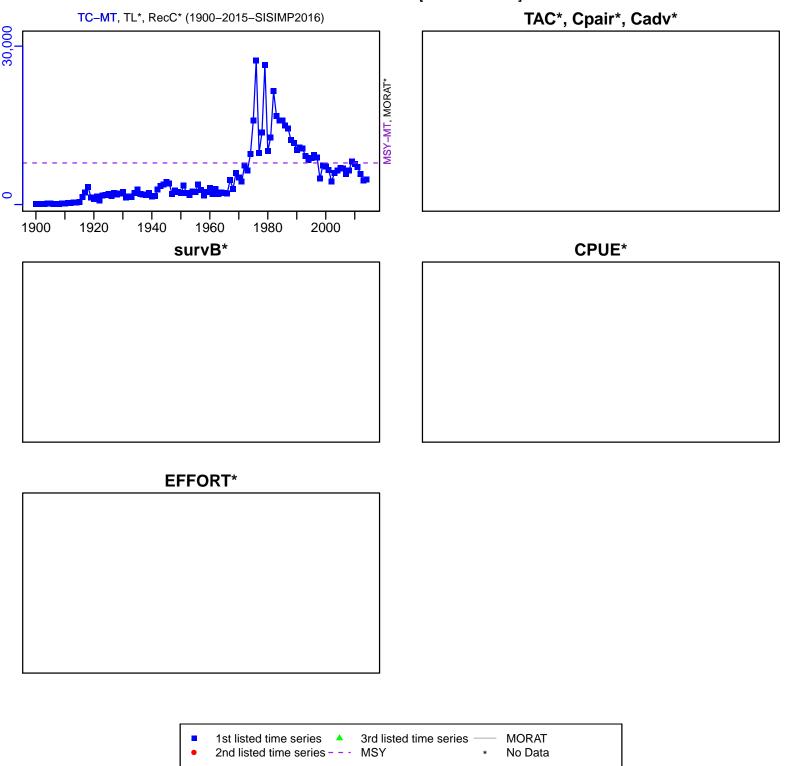
Metadata		
Scientific Name	Anoplopoma fimbria	
Current Assess ID	NWFSC-SABLEFPCOAST-1900-2015-SISIMP2016	
Area	Pacific Coast	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Northwest Fisheries Science Center	
Asmts in RAM	2011, 2015	

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2015	60,249	
Fmsy	Fmsy-1/yr	2015	0.55	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	537,893	
SSB0	SSB0-MT	2011	182,136	
MSY	MSY-MT	2015	7476	
M	M-1/yr	2011	0.08	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2015	37,656	
Flim	Flim-1/yr	2015	0.55	
ERlim	-	-	-	

	Tim	e Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	168,000	-	4+
SSB	SSB-MT	2015	52,000	Females	-
TN	-	-	-	-	-
R	R-E00	2015	13,100,000	-	0
F	F-1/yr	2015	0.451	-	-
ER	ER-calc-ratio	2015	0.026	-	-
TC	TC-MT	2015	4460		
TL	TL-MT	2011	6820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.863		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.82		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





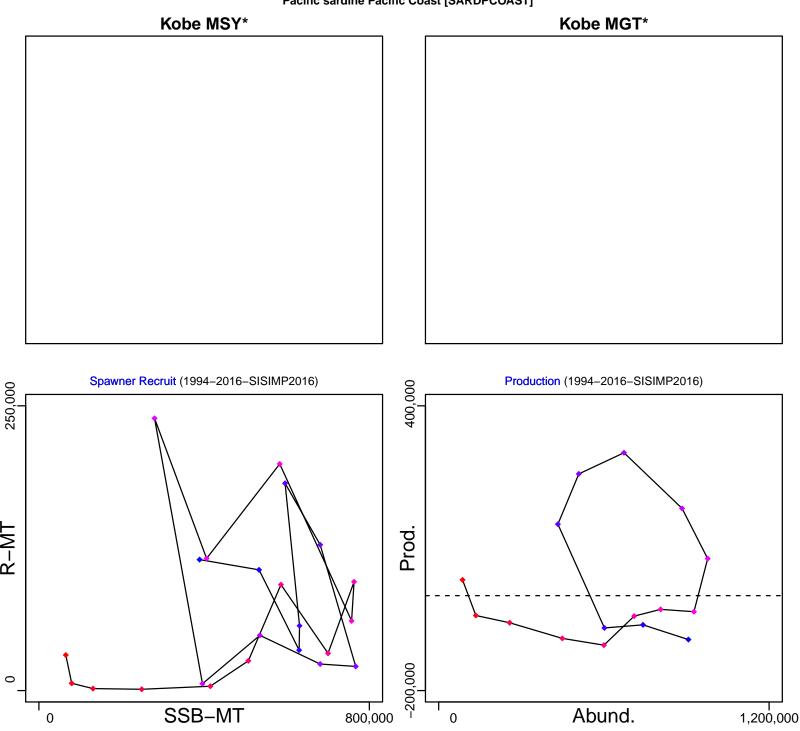


# Pacific sardine Pacific Coast [SARDPCOAST]

	Metadata
Scientific Name	Sardinops sagax
Current Assess ID	SWFSC-SARDPCOAST-1994-2016-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2007, 2016

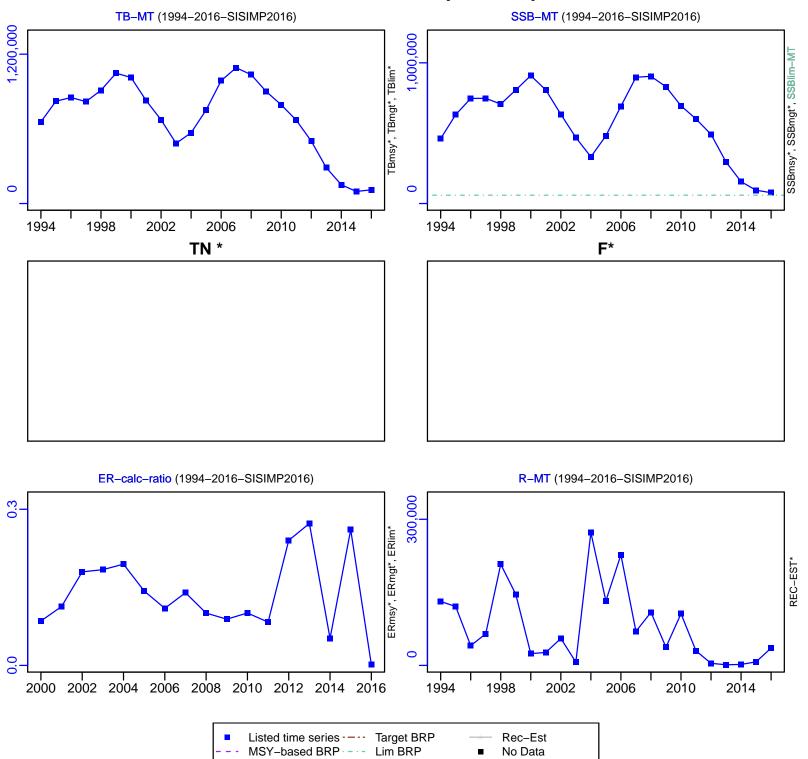
	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2007	0.4	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2016	50,000	
Flim	-	-	-	
ERlim	-	-	-	

	Ti	me Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	98,800	-	0+
SSB	SSB-MT	2016	65,100	-	-
TN	-	-	-	-	-
R	R-MT	2016	31,200	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2016	0.002	-	-
TC	TC-MT	2016	153		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

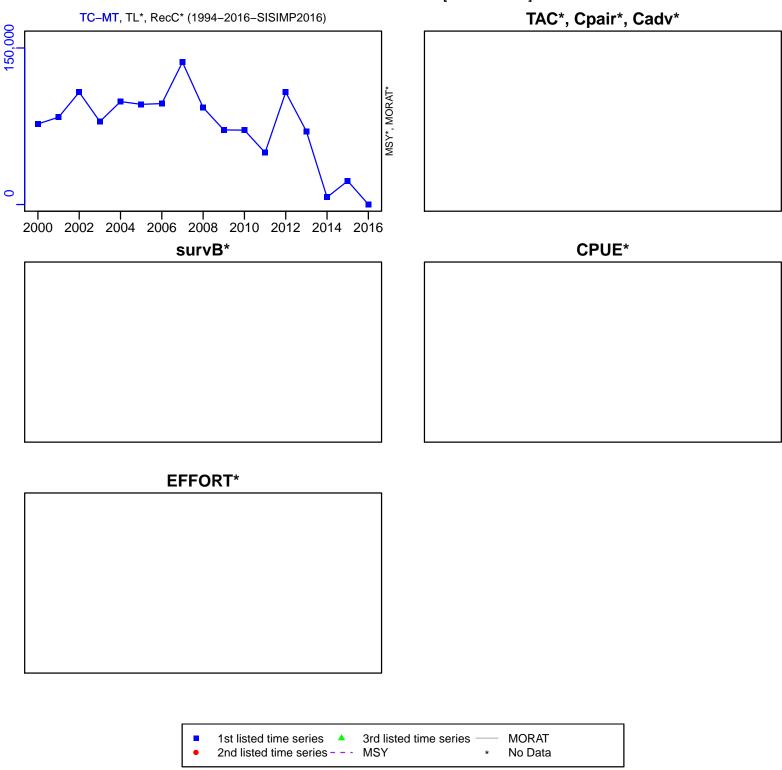


Start Year • End Year • No Data

#### Pacific sardine Pacific Coast [SARDPCOAST]



### Pacific sardine Pacific Coast [SARDPCOAST]

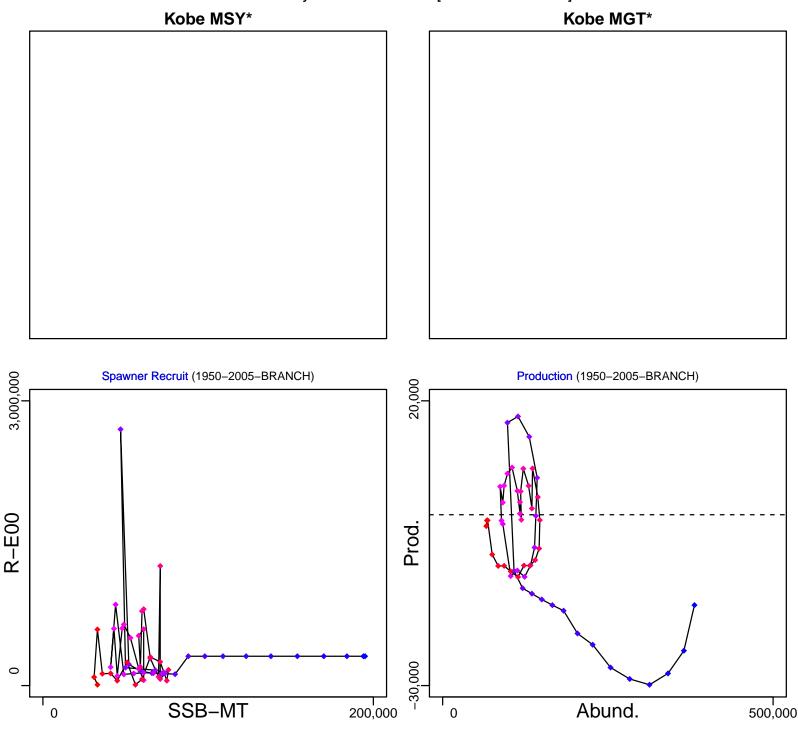


# **Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]**

	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

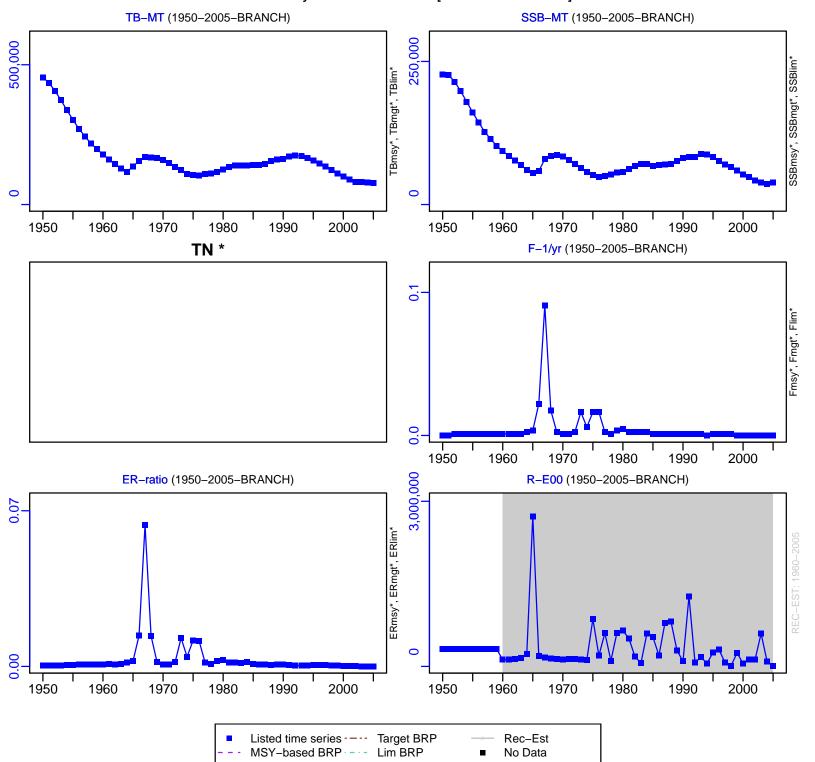
	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2005	98,400	
SSB0	SSB0-MT	2005	49,500	
MSY	-	-	-	
М	M-1/yr	2005	0.26	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	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	-	-	-		

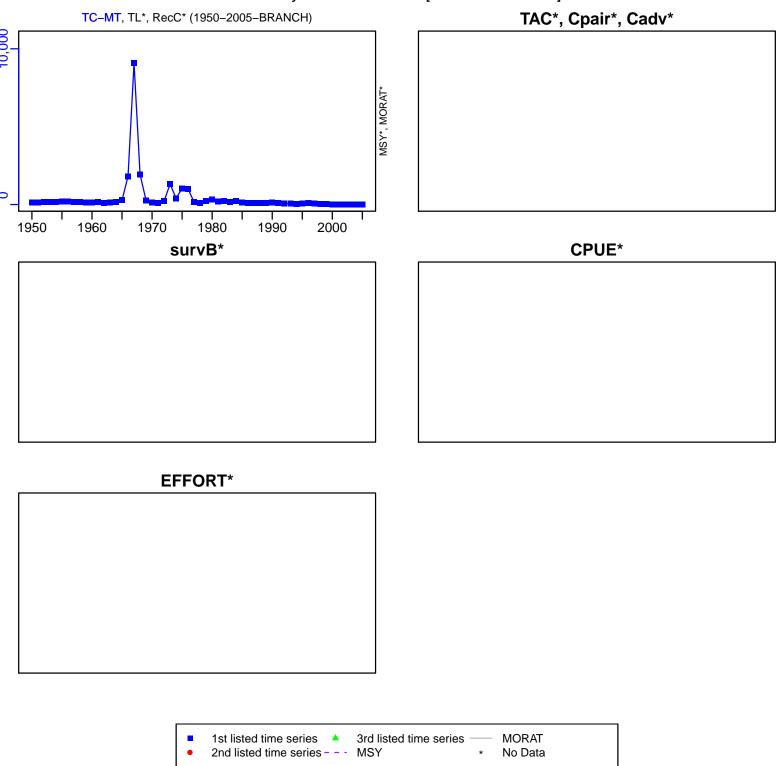


Start Year • End Year • No Data

#### Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]



## Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]



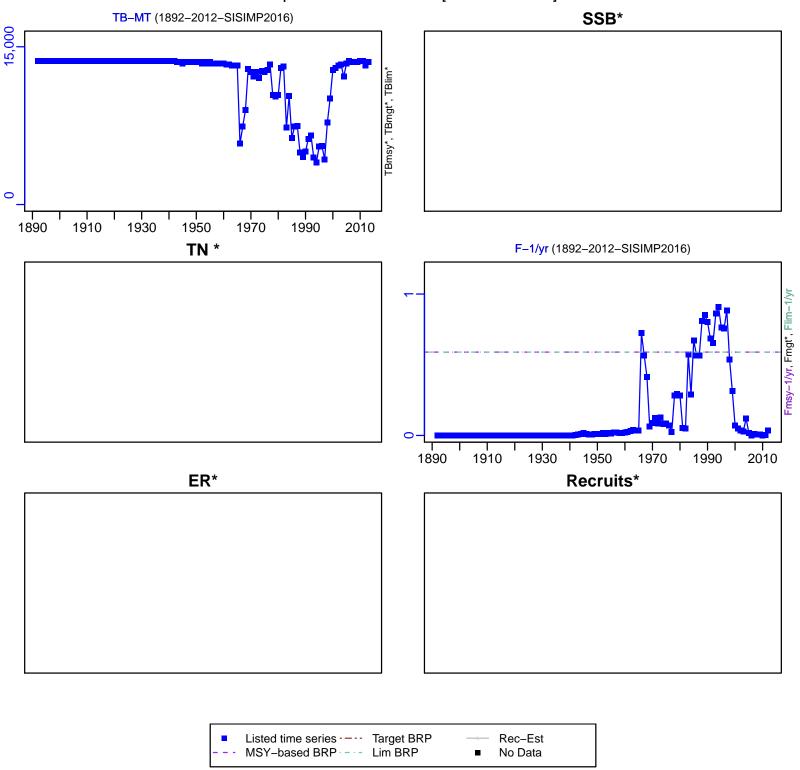
	Metadata
Scientific Name	Sebastes zacentrus
Current Assess ID	NWFSC-SHCROCKPCOAST-1892-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2012

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
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2012	0.5
ERlim	-	-	-

	Tim	e 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	-	-	-	-	-
TC	-	-	-		
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	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data



TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	
LITORI	
<ul> <li>1st listed time series A 3rd</li> <li>2nd listed time series MS*</li> </ul>	listed time series — MORAT Y * No Data

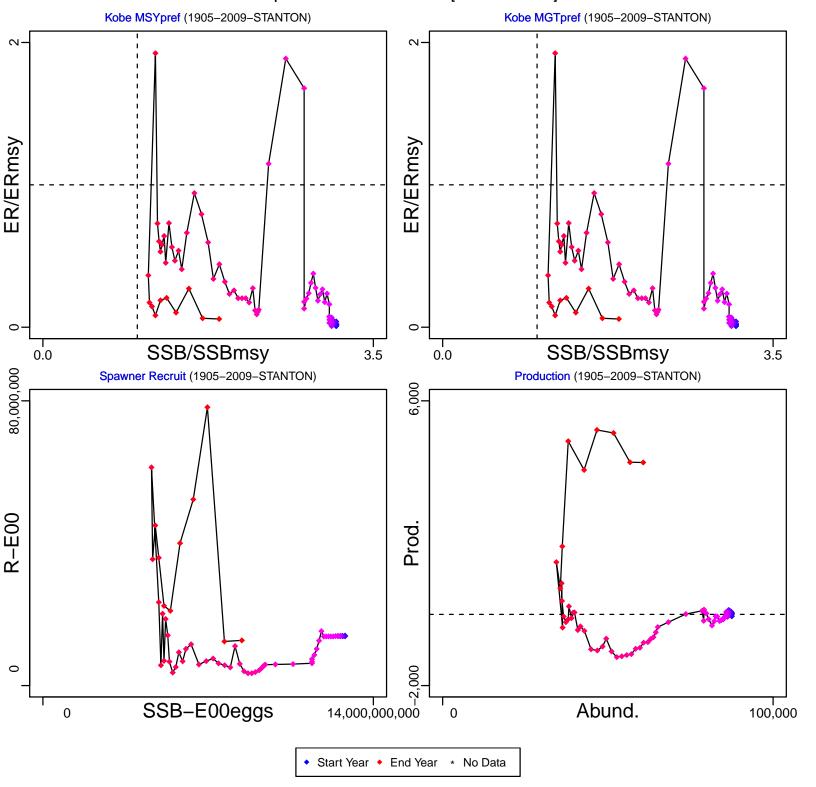
# Splitnose Rockfish Pacific Coast [SNROCKPCOAST]

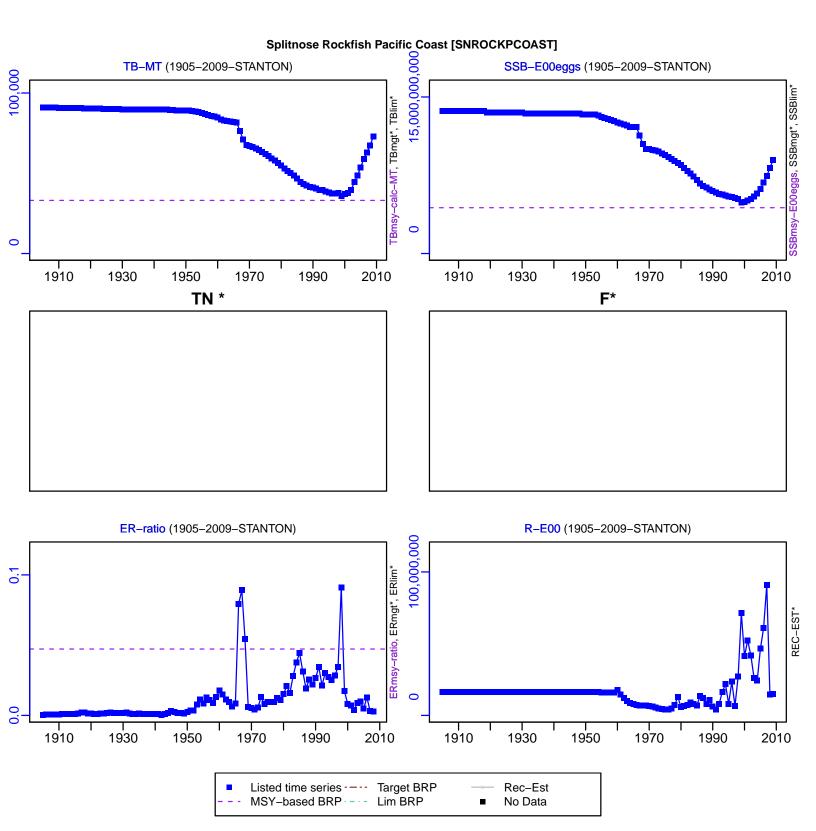
Metadata			
Scientific Name	Sebastes diploproa		
Current Assess ID	NWFSC-SNROCKPCOAST-1905-2009-STANTON		
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2009		

Reference Points			
Туре	ID		
TBmsy	TBmsy-calc-MT	2009	31,859
SSBmsy	SSBmsy-E00eggs	2009	$4.12 \times 10^{9}$
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	-	-	-

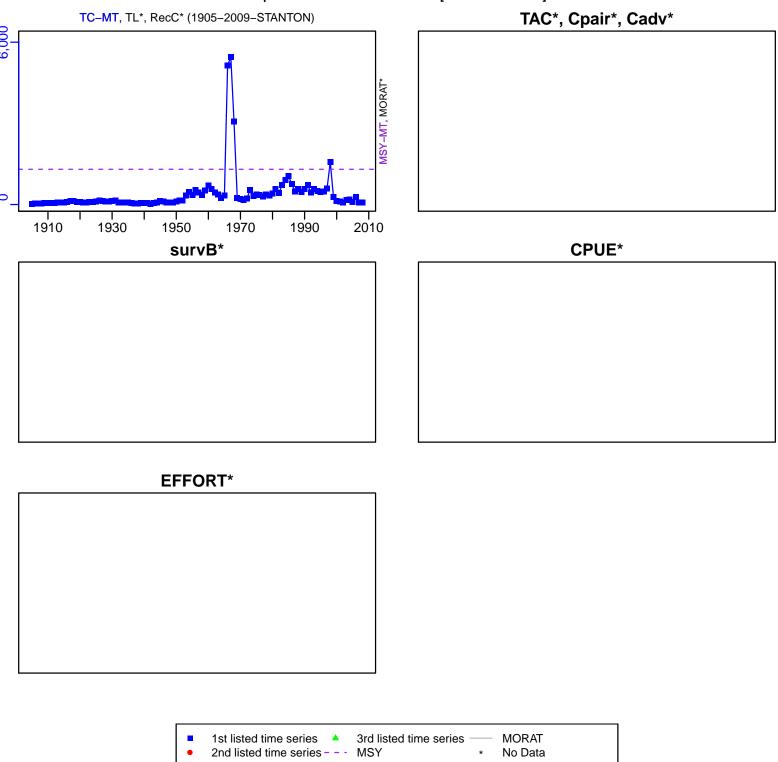
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	70,200	-	4+
SSB	SSB-E00eggs	2009	$8.43 \times 10^{9}$	Females	-
TN	-	-	-	-	-
R	R-E00	2009	12,700,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0.002	-	-
TC	TC-MT	2009	66		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.203		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs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



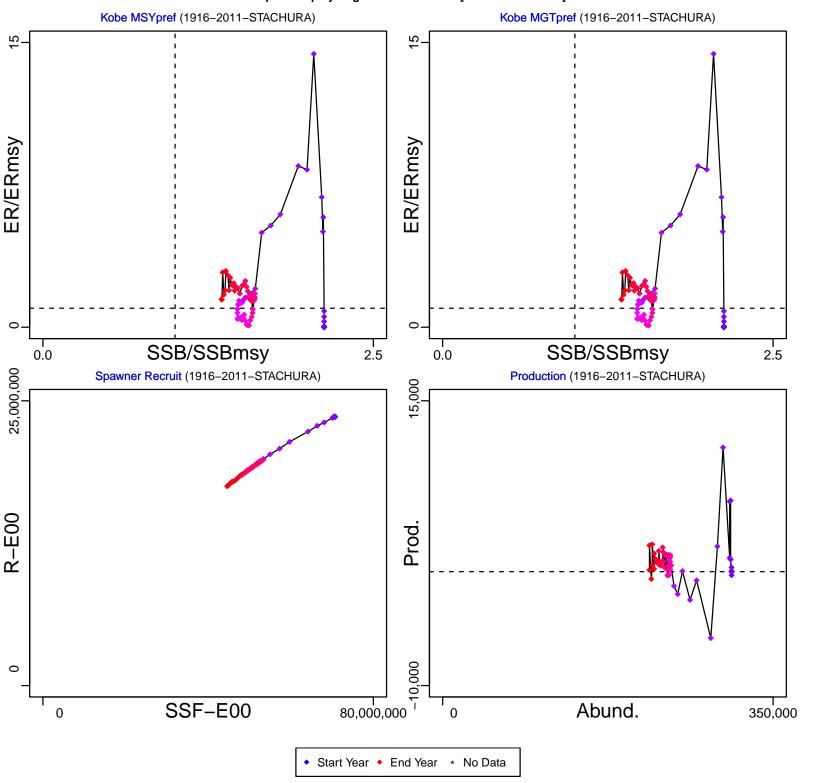
# Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

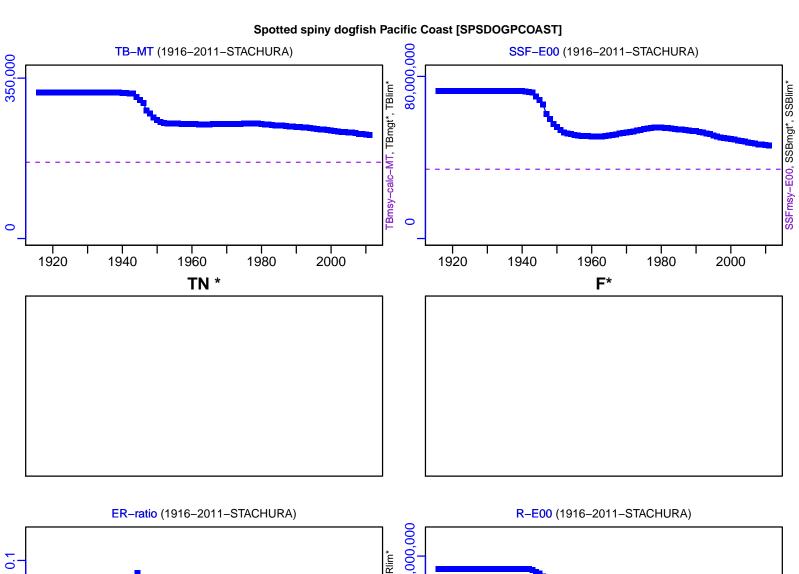
Metadata			
Scientific Name	Squalus suckleyi		
Current Assess ID	NWFSC-SPSDOGPCOAST-1916-2011-STACHURA		
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011		

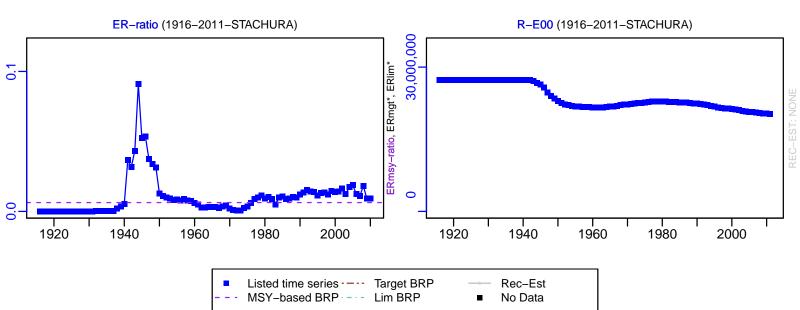
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	160,000	
SSBmsy	SSFmsy-E00	2011	33,229,000	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2011	0.005	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2011	304,105	
SSB0	-	-	-	
MSY	MSY-MT	2011	848	
M	M-1/yr	2011	0.064	
TBlim	-	-	-	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

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	-	-	-		

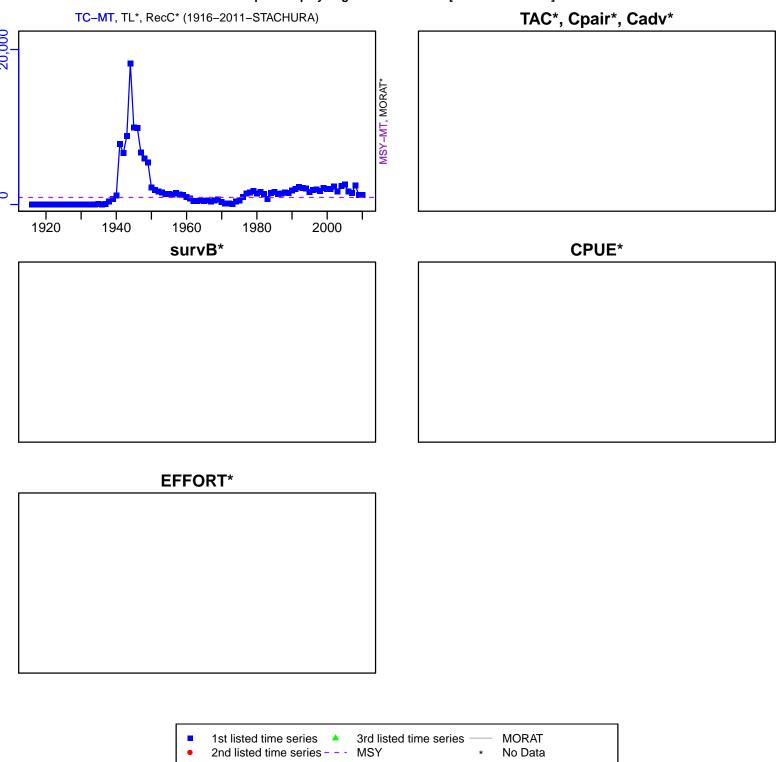
#### Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]







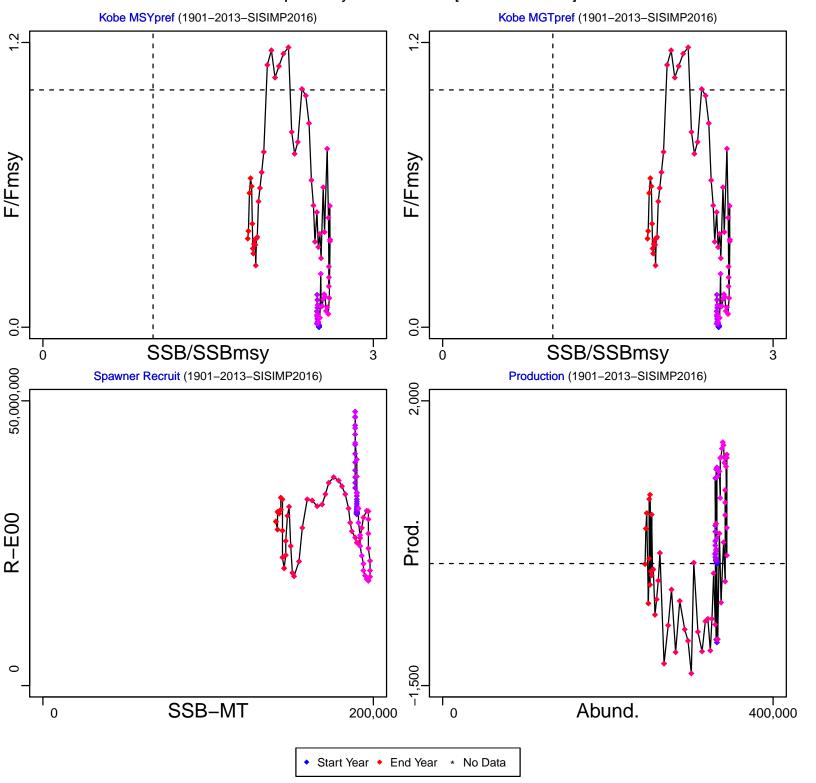
### Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

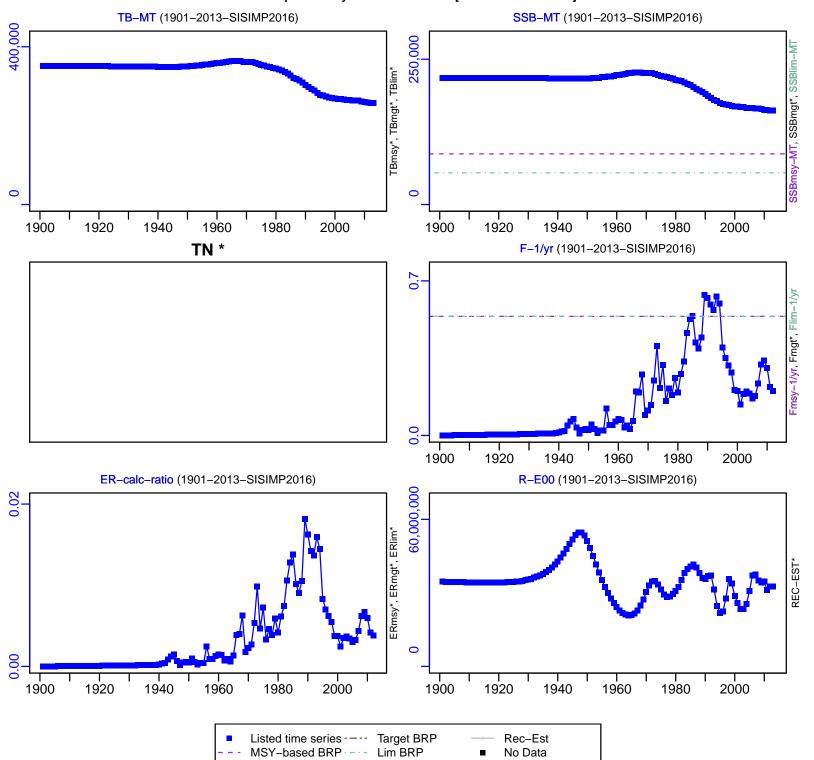


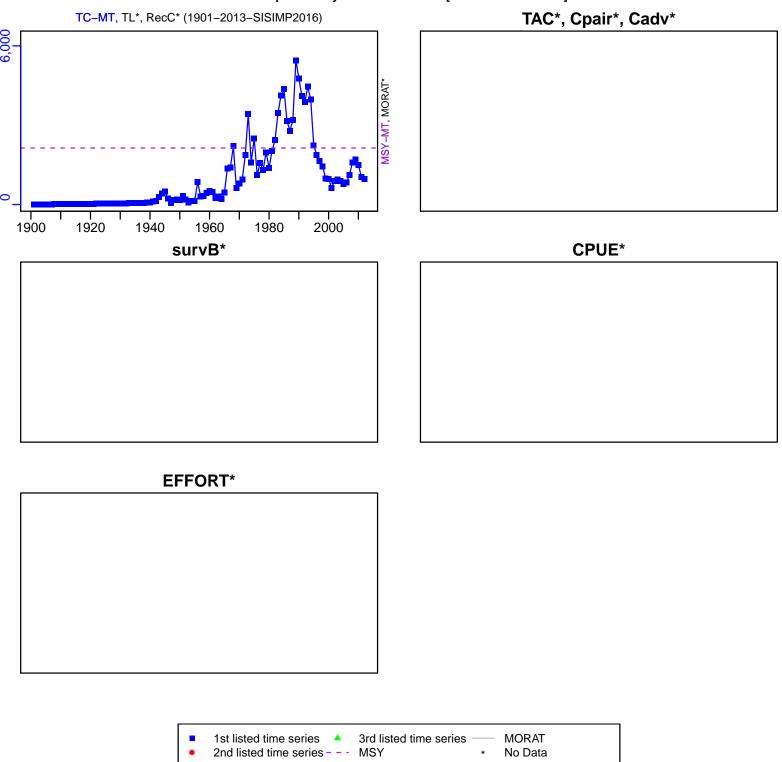
Metadata			
Scientific Name	Sebastolobus alascanus		
Current Assess ID	NWFSC-SSTHORNHPCOAST-1901-2013-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2005, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2005	86,000	
SSBmsy	SSBmsy-MT	2013	75,906	
Fmsy	Fmsy-1/yr	2013	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	2013	2034	
M	M-1/yr	2005	0.05	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2013	47,441	
Flim	Flim-1/yr	2013	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	244,000	-	1+
SSB	SSB-MT	2013	141,000	Females	-
TN	-	-	-	-	-
R	R-E00	2013	28,800,000	-	0
F	F-1/yr	2013	0.187	-	-
ER	ER-calc-ratio	2013	0.004	-	-
TC	TC-MT	2013	911		•
TL	TL-MT	2005	867		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.686		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.854		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.374		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.265		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



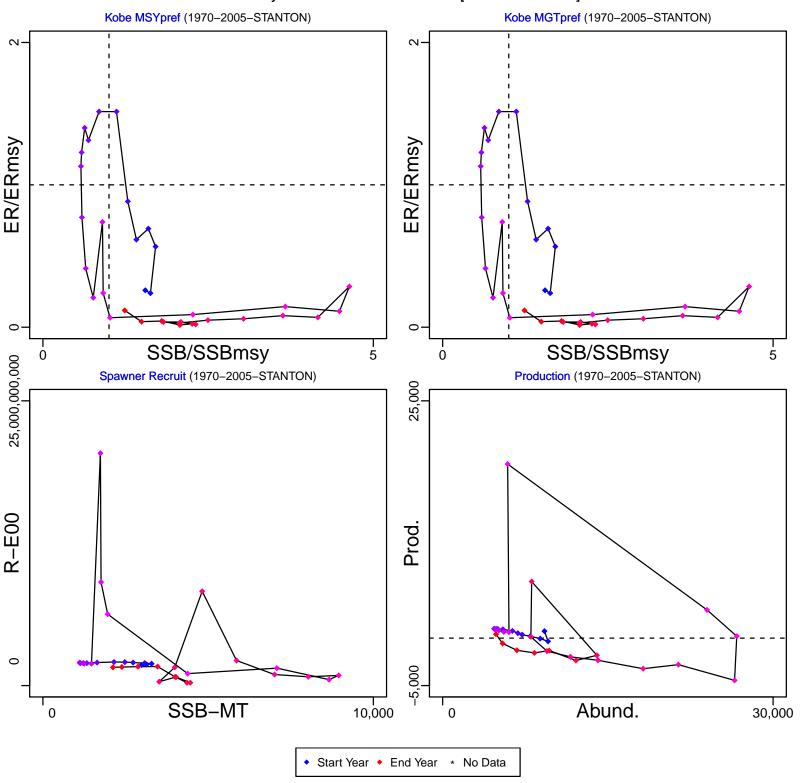


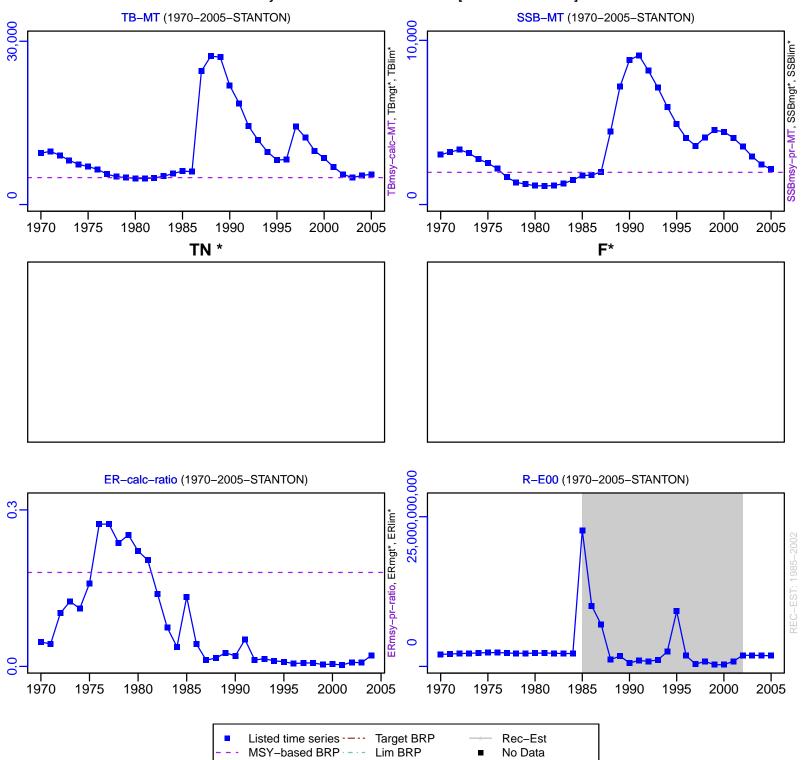


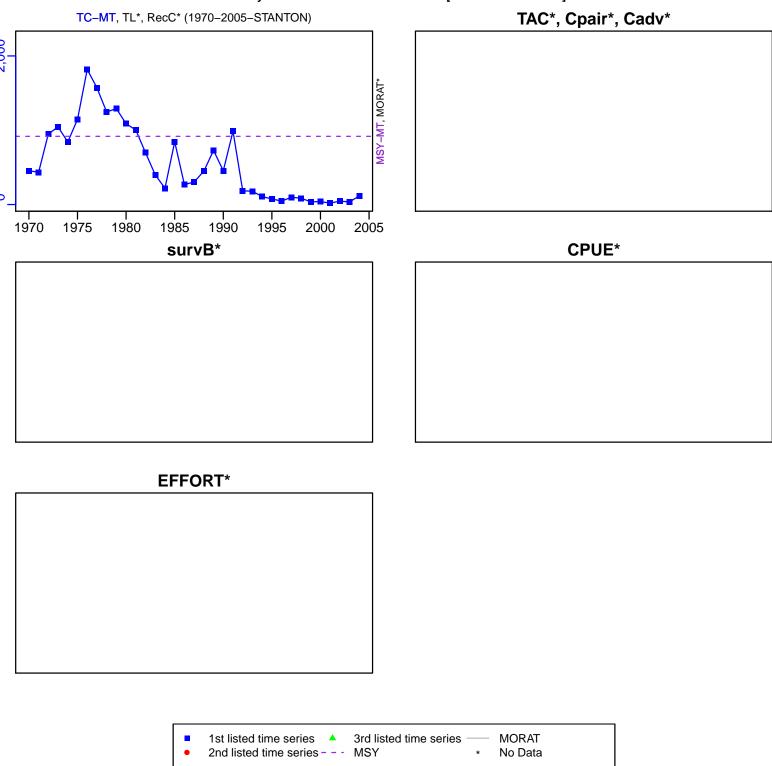
Metadata			
Scientific Name	Platichthys stellatus		
Current Assess ID	SWFSC-STFLOUNNPCOAST-1970-2005-STANTON		
Area Northern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Southwest Fisheries Science Center		
Asmts in RAM	2005		

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
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	5440	-	2+
SSB	SSB-MT	2005	2120	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	$1.6 \times 10^{9}$	-	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	-	-	-		



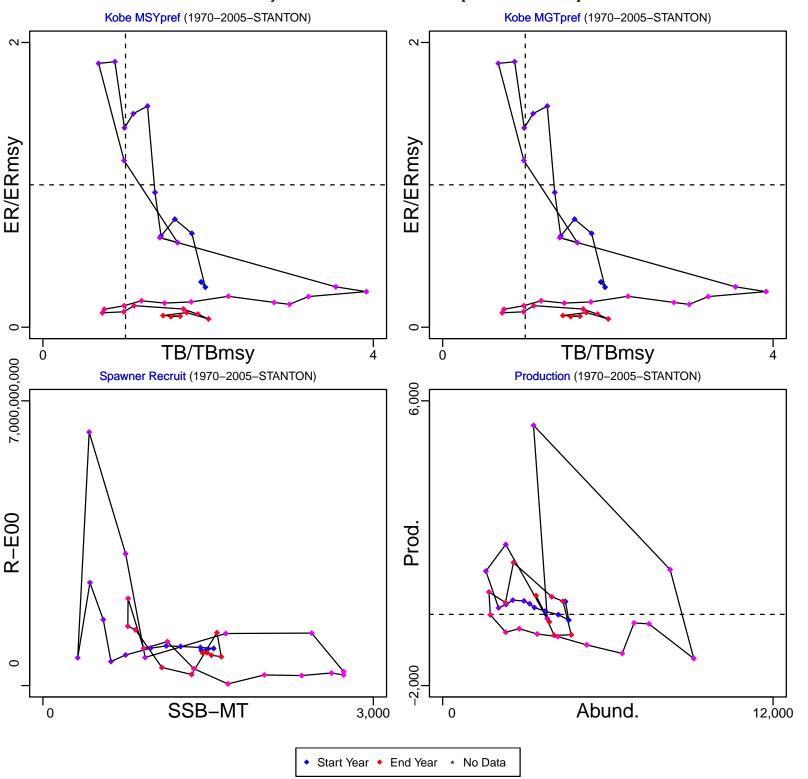


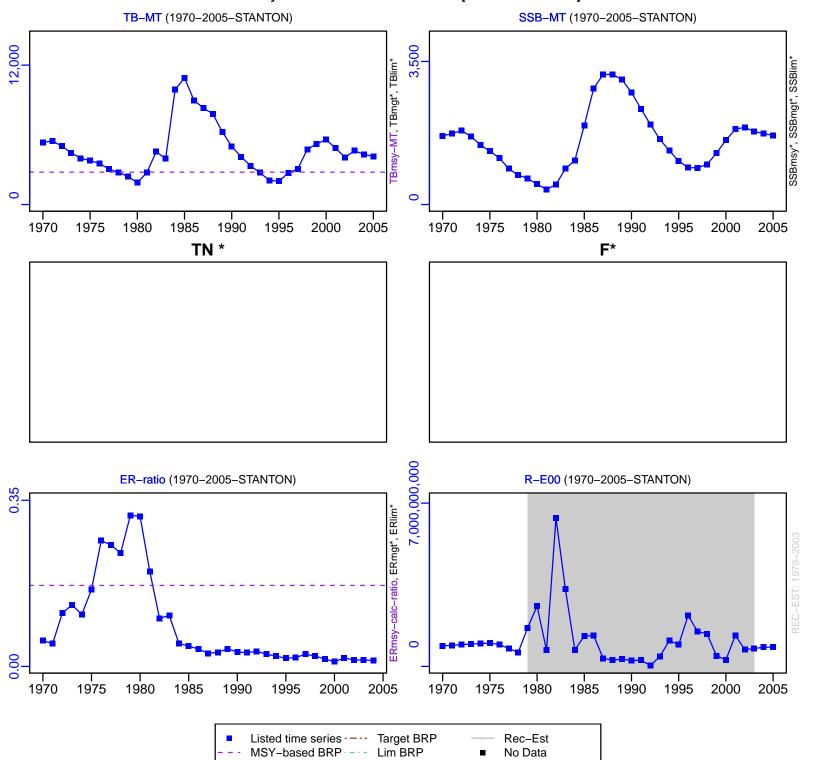


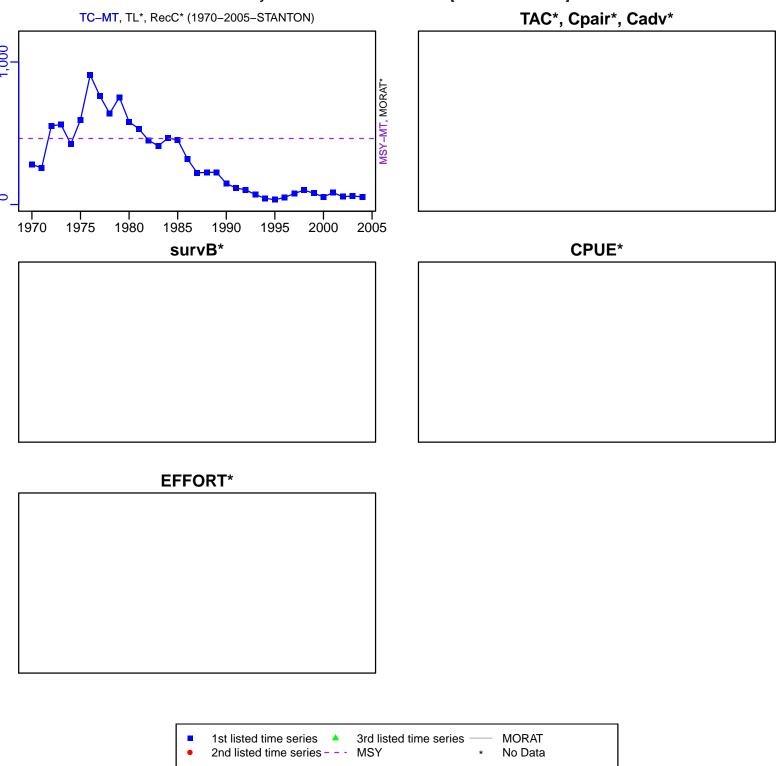
Metadata			
Scientific Name	Platichthys stellatus		
Current Assess ID	SWFSC-STFLOUNSPCOAST-1970-2005-STANTON		
Area Southern Pacific Coast			
Management Authority National Marine Fisheries Service, US national management			
Assessor Southwest Fisheries Science Center			
Asmts in RAM	2005		

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	
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	3460	-	2+
SSB	SSB-MT	2005	1450	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	$8.07 \times 10^{8}$	-	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	-	-	-		



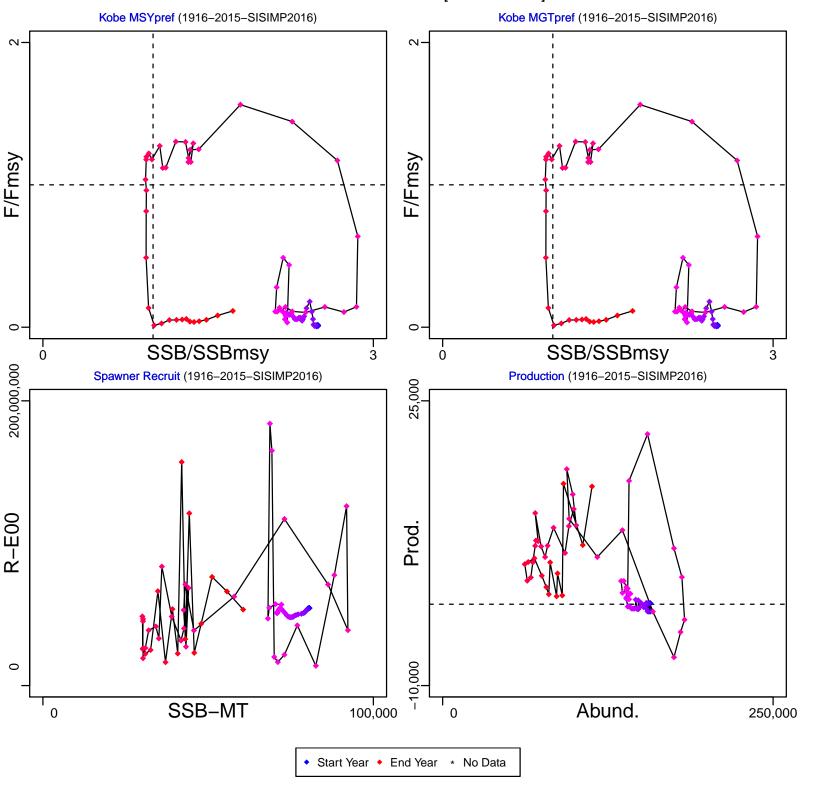


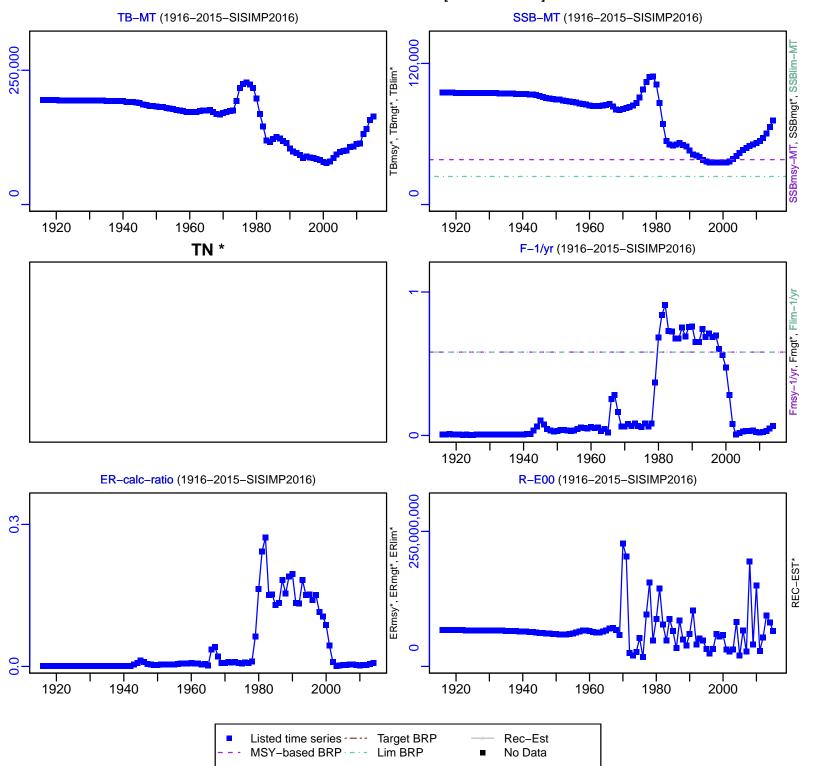


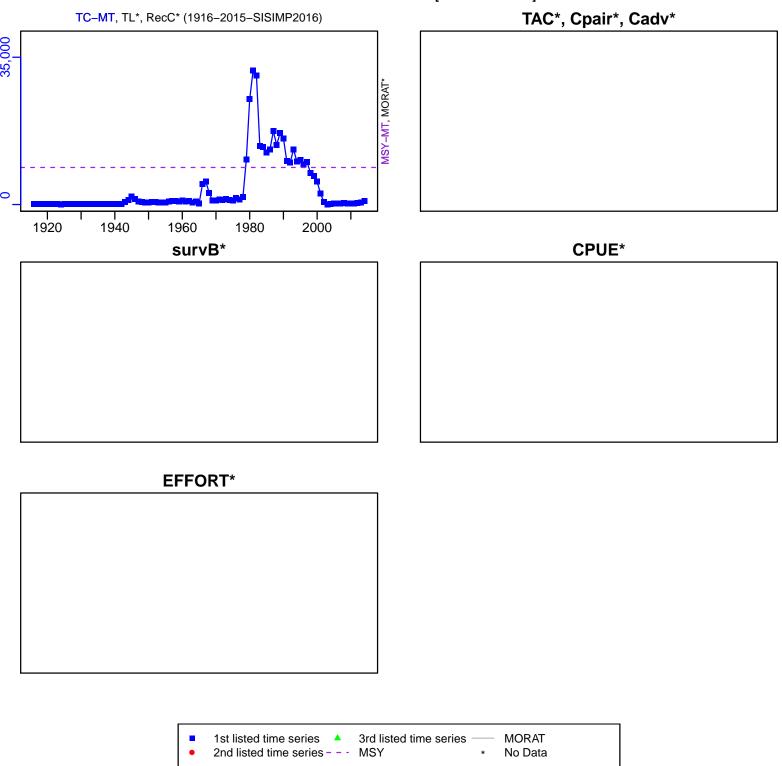
Metadata			
Scientific Name	Sebastes entomelas		
Current Assess ID	NWFSC-WROCKPCOAST-1916-2015-SISIMP2016		
Area Pacific Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	45,750	
SSBmsy	SSBmsy-MT	2015	32,283	
Fmsy	Fmsy-1/yr	2015	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	2015	7776	
M	M-1/yr	2011	0.12	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2015	20,177	
Flim	Flim-1/yr	2015	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	132,000	Both	4+
SSB	SSB-MT	2015	60,600	Females	-
TN	-	-	-	-	-
R	R-E00	2015	53,400,000	-	0
F	F-1/yr	2015	0.057	-	-
ER	ER-calc-ratio	2015	0.006	-	-
TC	TC-MT	2015	726		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.491		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.877		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.114		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.019		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	1.276		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







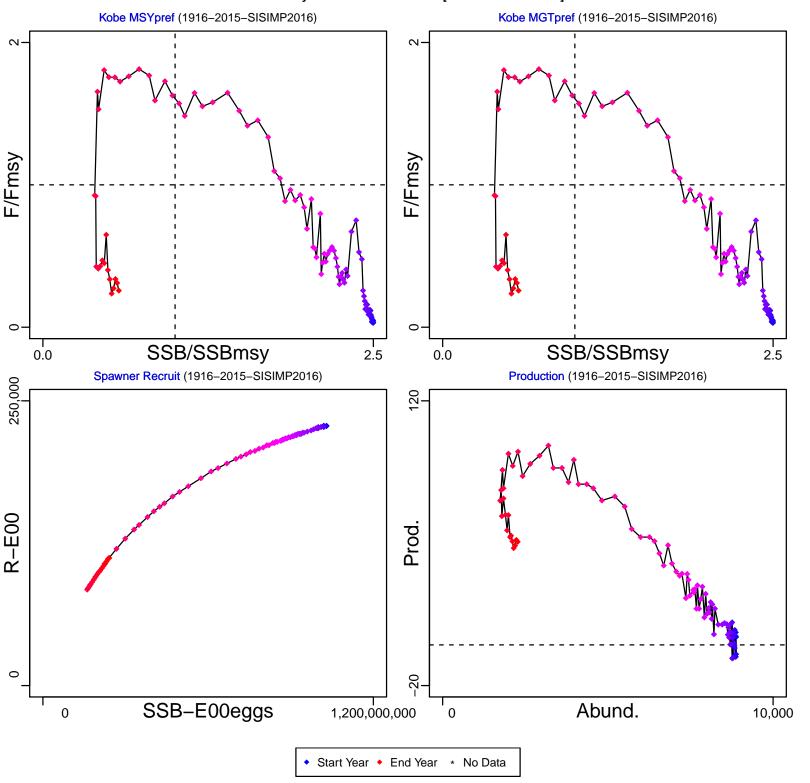
# Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]

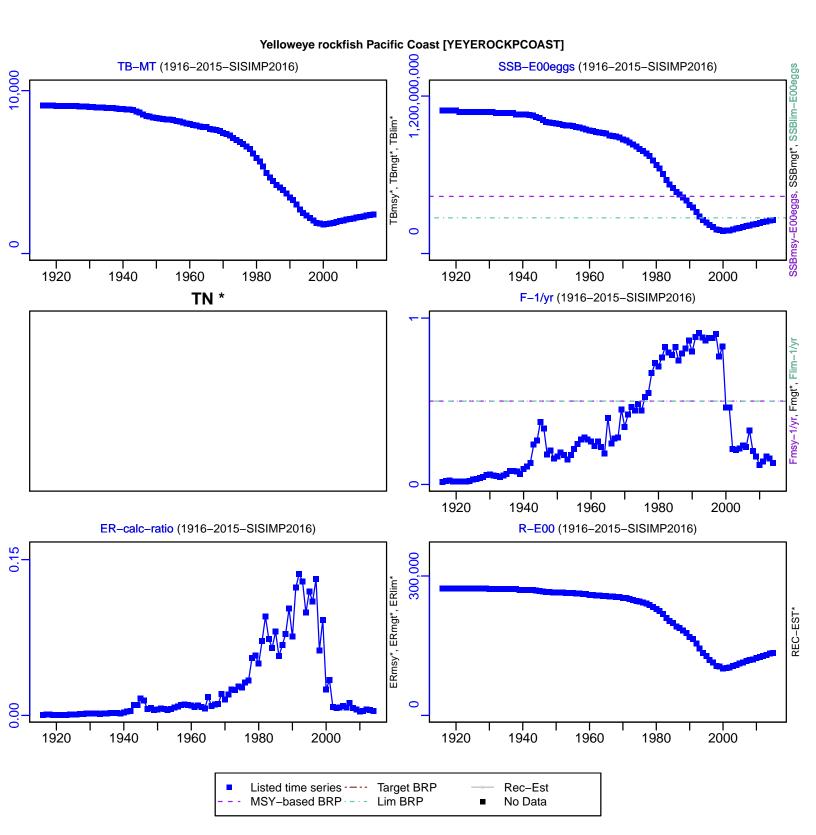
Metadata			
Scientific Name	Sebastes ruberrimus		
Current Assess ID	NWFSC-YEYEROCKPCOAST-1916-2015-SISIMP2016		
Area	Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2011, 2015		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	3706
SSBmsy	SSBmsy-E00eggs	2015	411,100,000
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-ratio	2011	0.017
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	8882
SSB0	SSB0-E00eggs	2011	$1.03 \times 10^{9}$
MSY	MSY-MT	2011	63
M	M-1/yr	2011	0.046
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	256,900,000
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

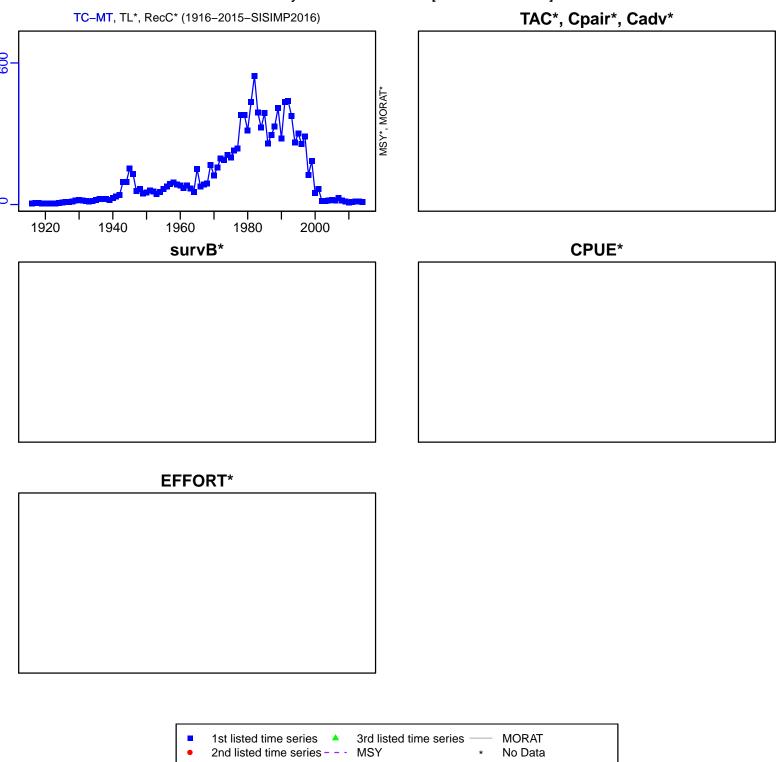
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	2350	-	8+
SSB	SSB-E00eggs	2015	$2.41 \times 10^{8}$	Females	-
TN	-	-	-	-	-
R	R-E00	2015	112,000	-	0
F	F-1/yr	2015	0.129	-	-
ER	ER-calc-ratio	2015	0.004	-	-
TC	TC-MT	2015	9		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.591		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.587		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.257		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.312		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

### Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]





## Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]



Metadata			
Scientific Name	Sebastes flavidus		
Current Assess ID	NWFSC-YTROCKNPCOAST-1892-2012-SISIMP2016		
Area	Northern Pacific Coast		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northwest Fisheries Science Center		
Asmts in RAM	2012, 2005		

Reference Points				
Туре	ID Asmt Year		Value	
TBmsy	TBmsy-calc-MT	2005	37,123	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2012	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	2012	4805	
М	M-1/yr	2005	0.11	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2012	0.5	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	143,000	-	-
SSB	SSB-MT	2005	16,900	-	4+
TN	-	-	-	-	-
R	R-E00	2005	12,100,000	-	4
F	F-1/yr	2012	0.182	-	-
ER	ER-ratio	2005	0.022	-	-
TC	TC-MT	2005	1610		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.999		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.364		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.172		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

