

US West Coast Stocks

v4.25 (Dec-14-2017)

1. Albacore tuna North Pacific [ALBANPAC]
2. Arrowtooth flounder Pacific Coast [ARFLOUNDCOAST]
3. Aurora rockfish Pacific Coast [AUROCKPCOAST]
4. Blackgill rockfish Pacific Coast [BGROCKPCOAST]
5. Black rockfish California [BLACKROCKCAL]
6. Black rockfish Oregon [BLACKROCKORECOAST]
7. Black rockfish Washington [BLACKROCKWASH]
8. Blue rockfish California [BLUEROCKCAL]
9. Bank Rockfish California [BNKROCKCAL]
10. Bocaccio Southern Pacific Coast [BOCACCSPCOAST]
11. Brown rockfish Pacific Coast [BRNROCKPCOAST]
12. Cabezon Northern California [CABEZNCAL]
13. Cabezon Oregon Coast [CABEZORECOAST]
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15. California scorpionfish Southern California [CALSCORPSCAL]
16. Chilipepper Southern Pacific Coast [CHILISPCOAST]
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18. China rockfish Northern Pacific Coast [CHROCKNPCOAST]
19. China rockfish Southern Pacific Coast [CHROCKSPCOAST]
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21. Cowcod Southern California [COWCODSCAL]
22. Copper rockfish Pacific Coast [CPRROCKPCOAST]
23. Canary rockfish Pacific Coast [CROCKPCOAST]
24. Darkblotched rockfish Pacific Coast [DKROCKPCOAST]
25. Dover sole Pacific Coast [DSOLEPCOAST]
26. English sole Pacific Coast [ESOLEPCOAST]
27. Gopher rockfish Southern Pacific Coast [GOPHERSPCOAST]
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29. Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]
30. Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]
31. Kelp greenling Oregon Coast [KELPGREENLINGORECOAST]
32. Lingcod Northern Pacific Coast [LINGCODNPCOAST]
33. Lingcod Southern Pacific Coast [LINGCODSPCOAST]
34. Longnose skate Pacific Coast [LNOSEKAPCOAST]
35. Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]
36. Pacific Geoduck Washington [PGEODWA]
37. Pacific hake Pacific Coast [PHAKEPCOAST]
38. Pacific ocean perch Pacific Coast [POPERCHPCOAST]
39. Petrale sole Pacific Coast [PSOLEPCOAST]
40. Rex sole Pacific Coast [REXSOLEPCOAST]
41. Sablefish Pacific Coast [SABLEFPCOAST]
42. Pacific sardine Pacific Coast [SARDPCOAST]
43. Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]
44. Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]
45. Splitnose Rockfish Pacific Coast [SNROCKPCOAST]
46. Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]
47. Shortspine thornyhead Pacific Coast [SSTHORNHPCOAST]
48. Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]
49. Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]
50. Widow rockfish Pacific Coast [WROCKPCOAST]

- 51. Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]
- 52. Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

Albacore tuna North Pacific [ALBANPAC]

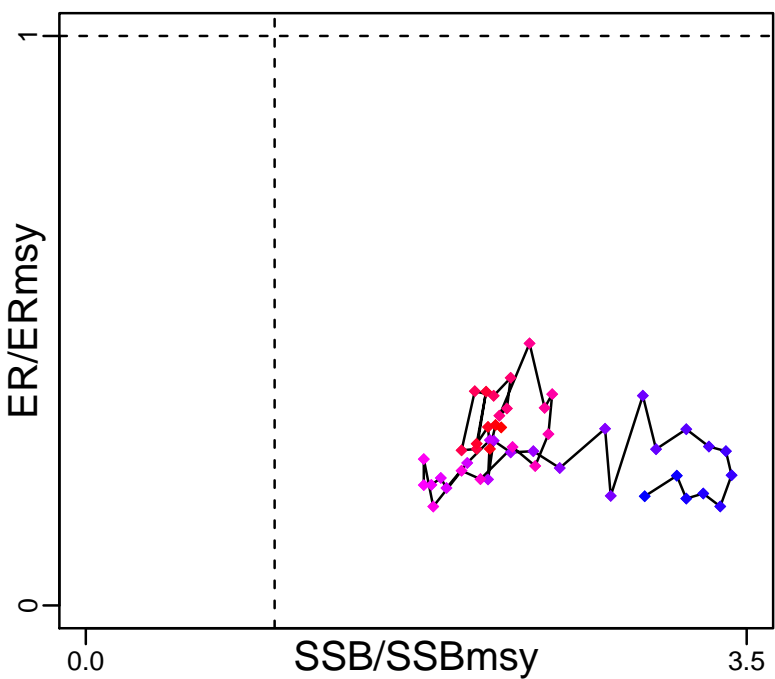
Metadata	
Scientific Name	Thunnus alalunga
Current Assess ID	ISC-ALBANPAC-1950-2012-PONS
Area	North Pacific Ocean
Management Authority	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
Assessor	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2012	49,680
Fmsy	-	-	-
ERmsy	ERmsy-conv-ratio	2012	0.38
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	105,571
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

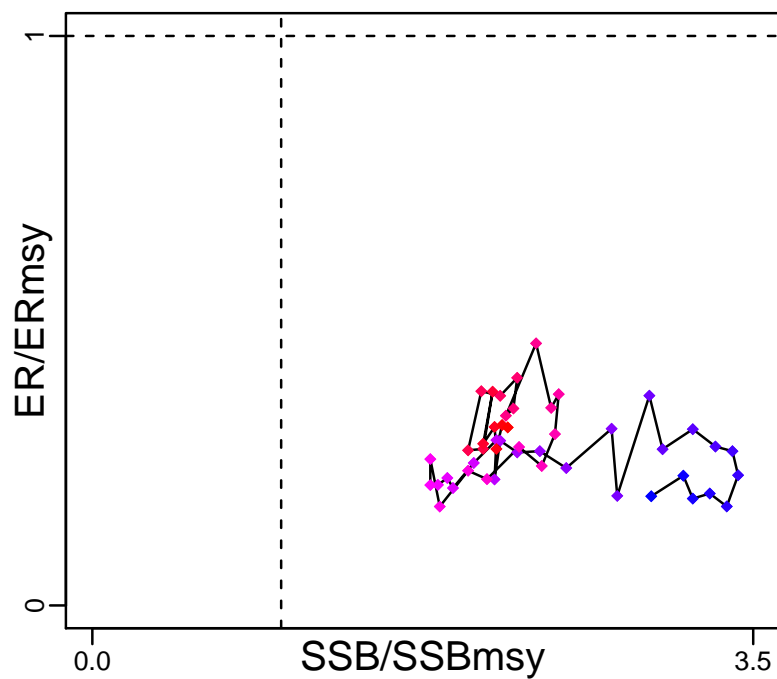
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	669,000	Both	1+
SSB	SSB-MT	2012	110,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2012	45,400,000	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	80,200	-	-
TL	-	-	-	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2012	2.2	-	-
F/Fmsy	FdivFmsy-dimensionless	2012	0.71	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2012	0.31	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Albacore tuna North Pacific [ALBANPAC]

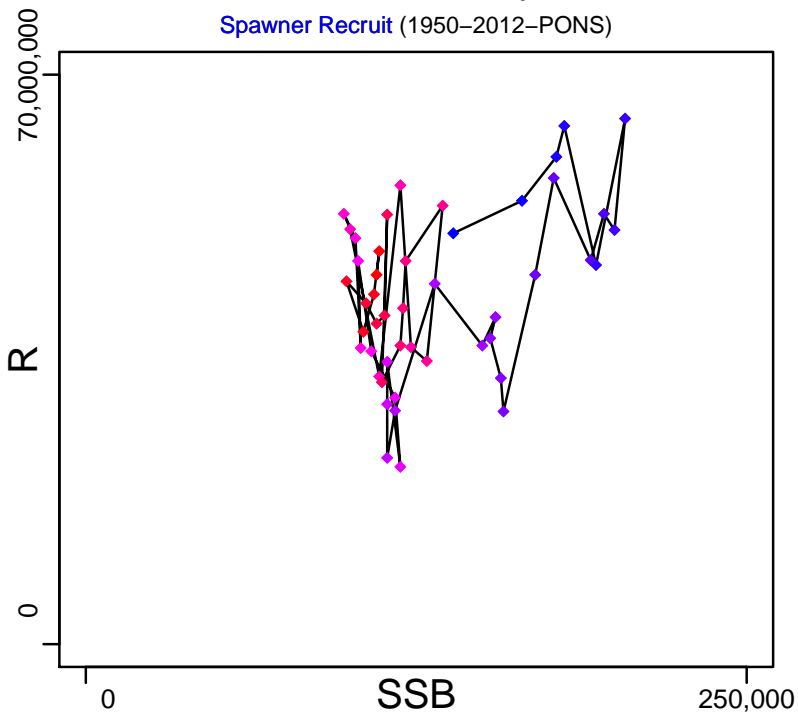
Kobe MSYpref (1950–2012–PONS)



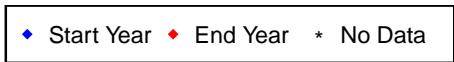
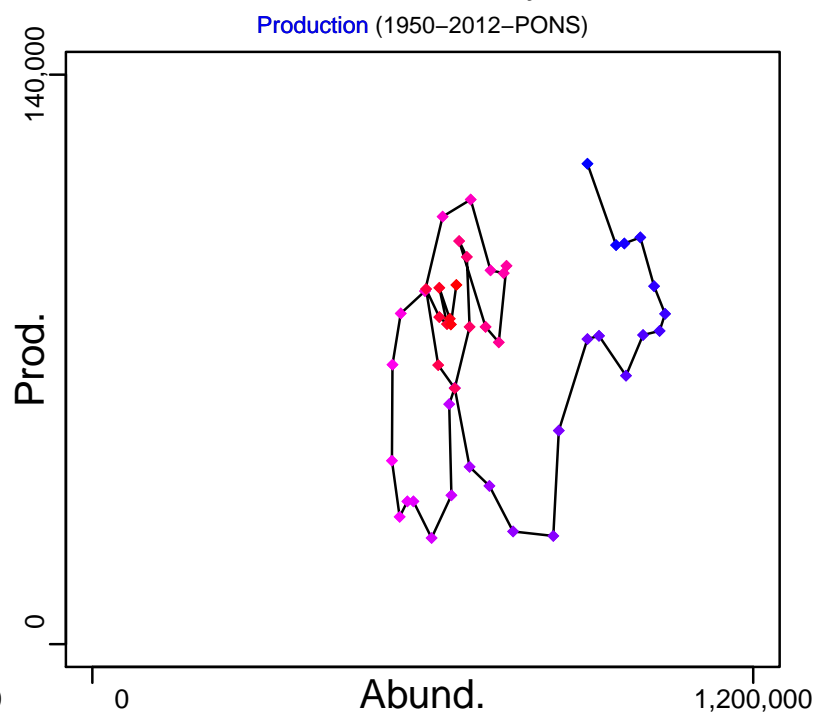
Kobe MGTpref (1950–2012–PONS)



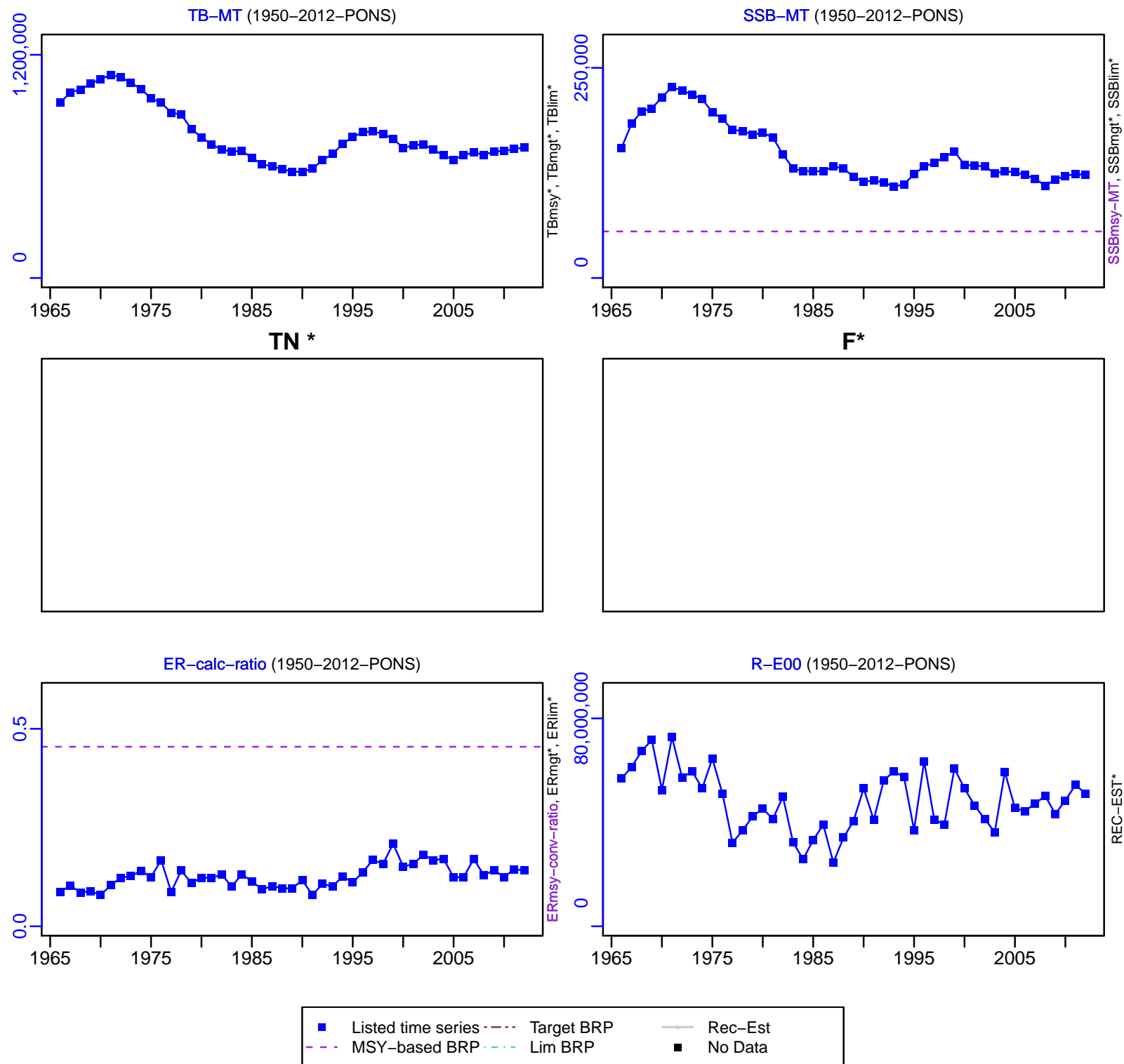
Spawner Recruit (1950–2012–PONS)



Production (1950–2012–PONS)



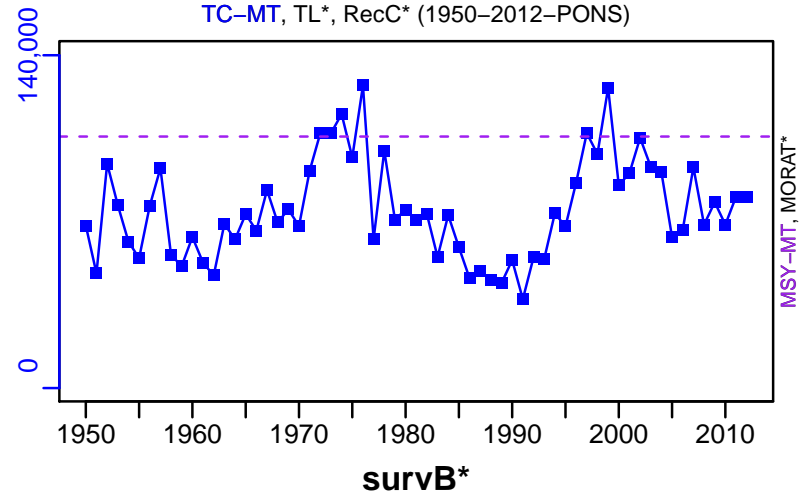
Albacore tuna North Pacific [ALBANPAC]



Albacore tuna North Pacific [ALBANPAC]

TC-MT, TL*, RecC* (1950-2012-PONS)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

■ 1st listed time series ▲ 3rd listed time series — MORAT
 ● 2nd listed time series - - - MSY * No Data

Arrowtooth flounder Pacific Coast [ARFLOUNDPCOAST]

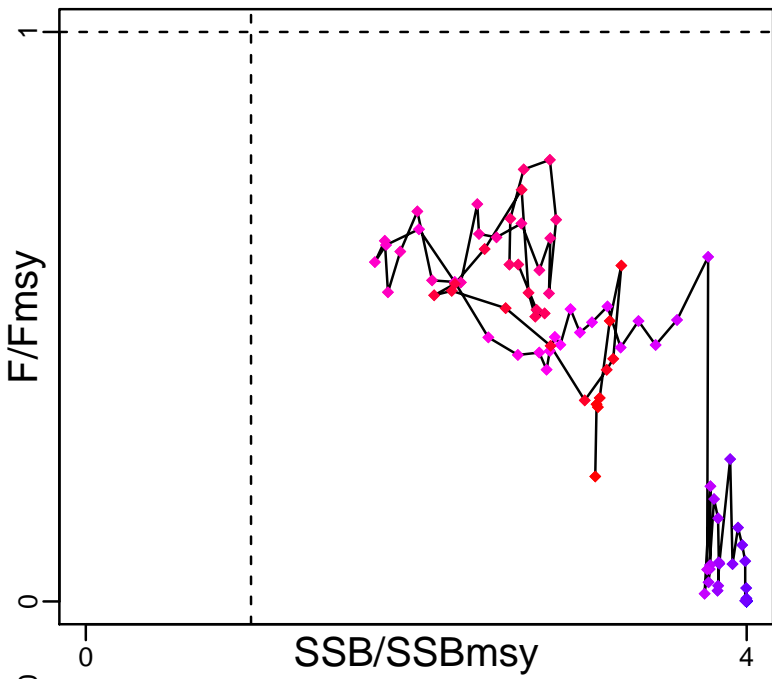
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	NWFSC-ARFLOUNDPCOAST-1914-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	20,078
Fmsy	Fmsy-1/yr	2015	0.7
ERmsy	ERmsy-ratio	2007	0.13
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	80,313
MSY	MSY-MT	2007	5844
M	M-1/yr	2007	0.17
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	10,039
Flim	Flim-1/yr	2015	0.7
ERlim	-	-	-

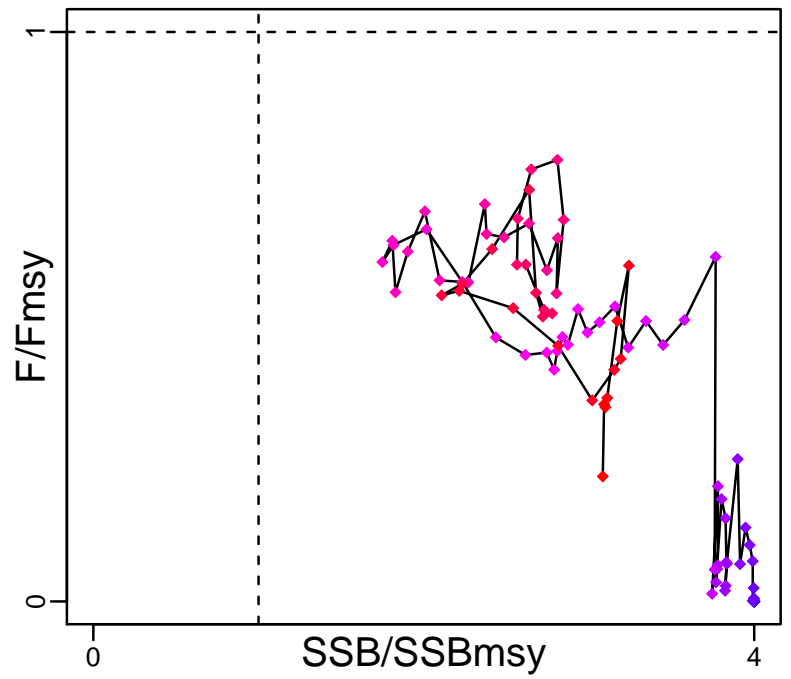
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	79,800	-	3+
SSB	SSB-MT	2015	62,600	Females	-
TN	-	-	-	-	-
R	R-E00	2015	28,300,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	1440		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	3.12		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.22		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Pacific Coast [ARFLOUNDPCOAST]

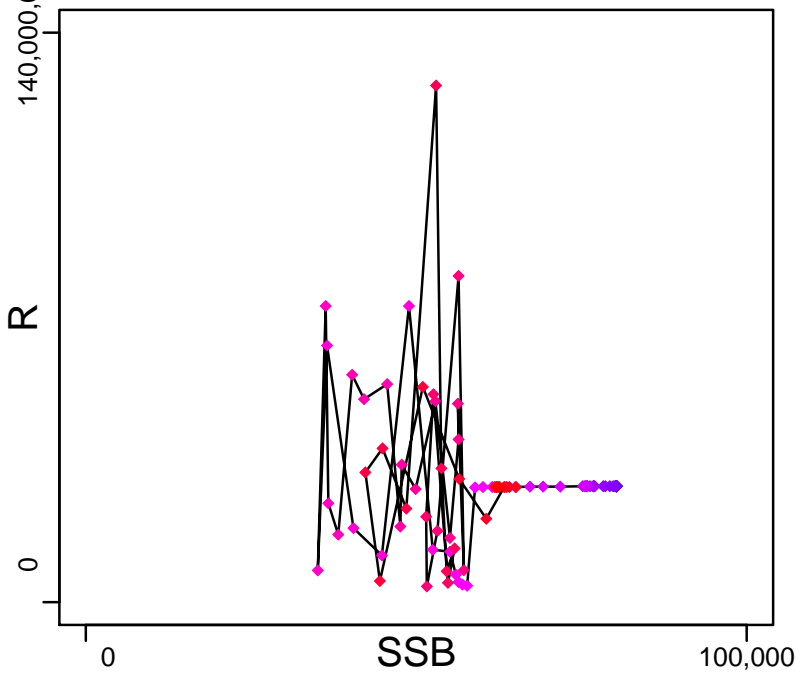
Kobe MSYpref (1914–2015–SISIMP2016)



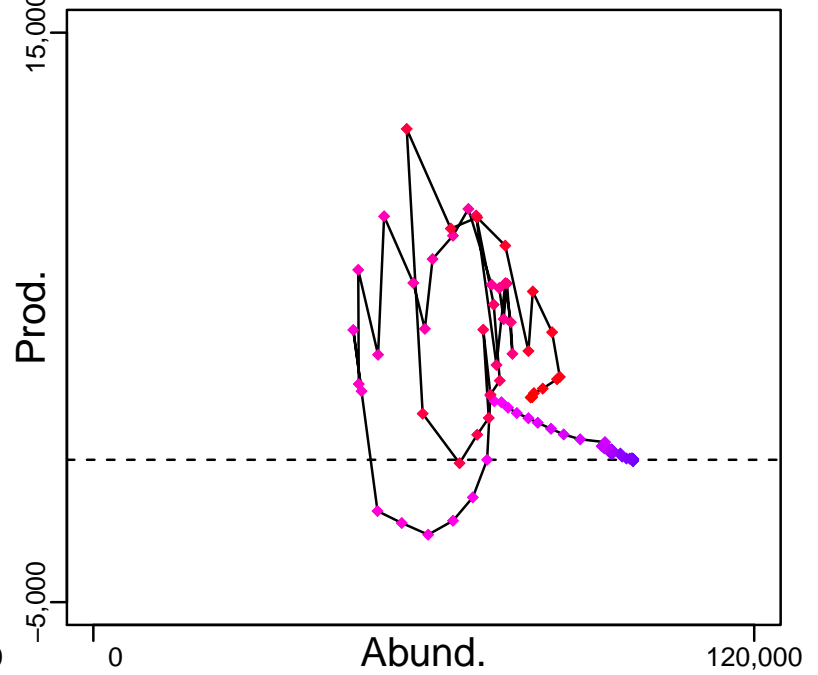
Kobe MGTpref (1914–2015–SISIMP2016)



Spawner Recruit (1914–2015–SISIMP2016)



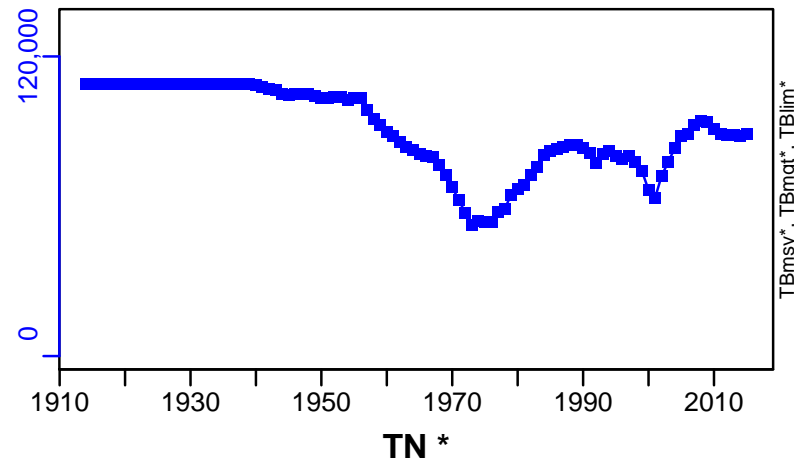
Production (1914–2015–SISIMP2016)



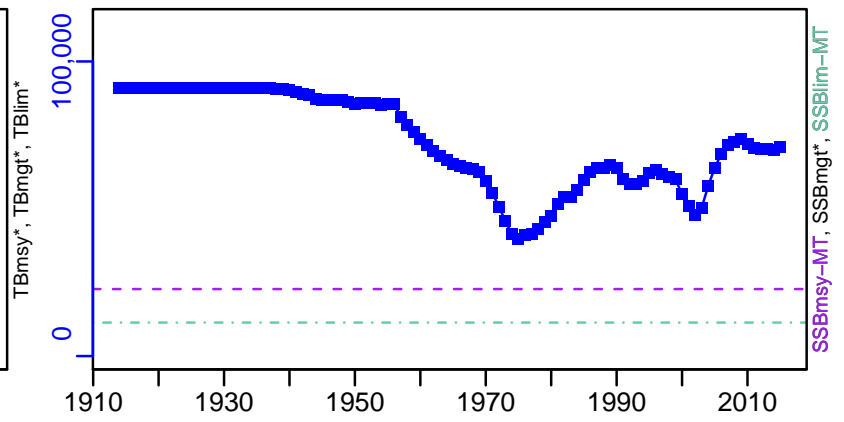
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Pacific Coast [ARFLOUNDCOAST]

TB-MT (1914–2015–SISIMP2016)

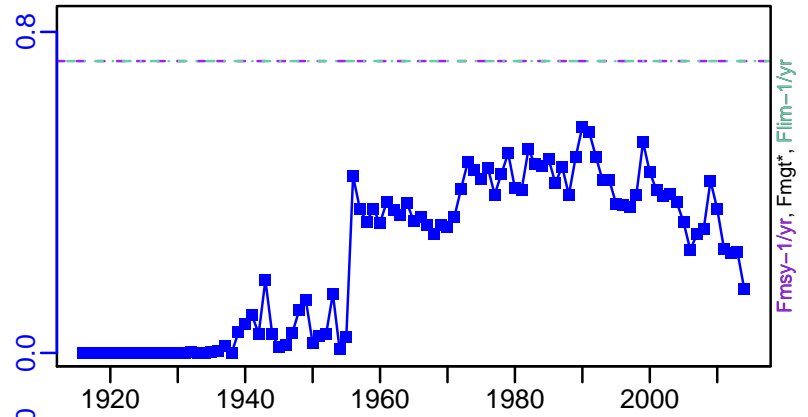
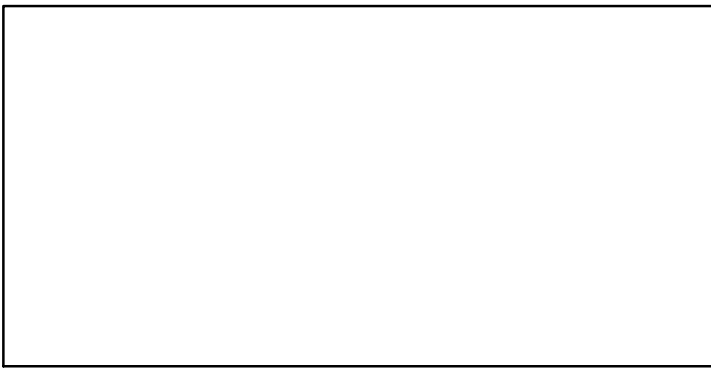


SSB-MT (1914–2015–SISIMP2016)

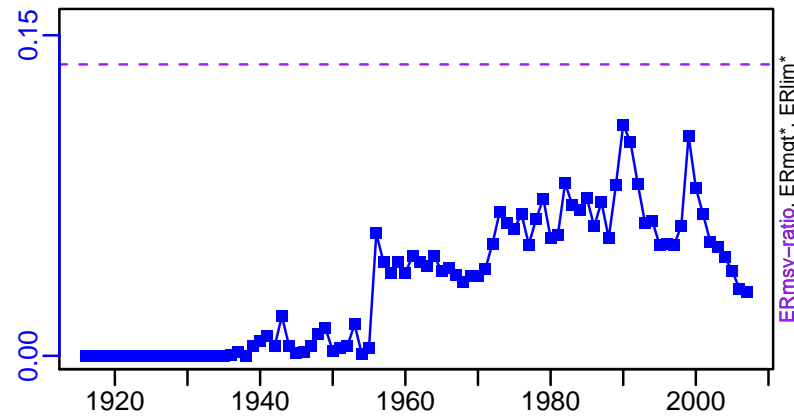


TN *

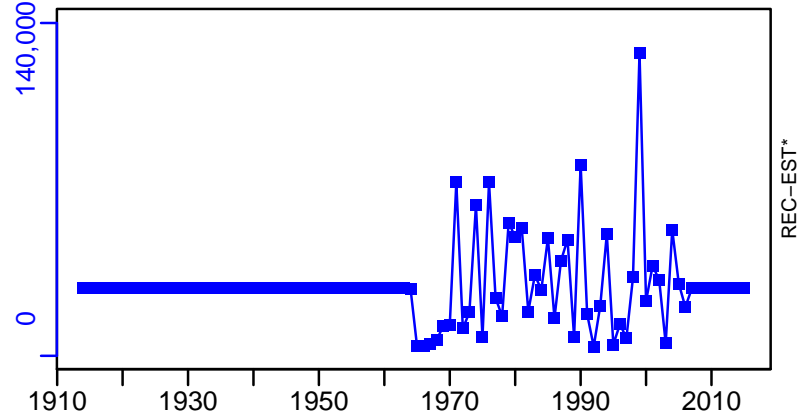
F-1/yr (1914–2015–SISIMP2016)



ER-ratio (1916–2007–BRANCH)



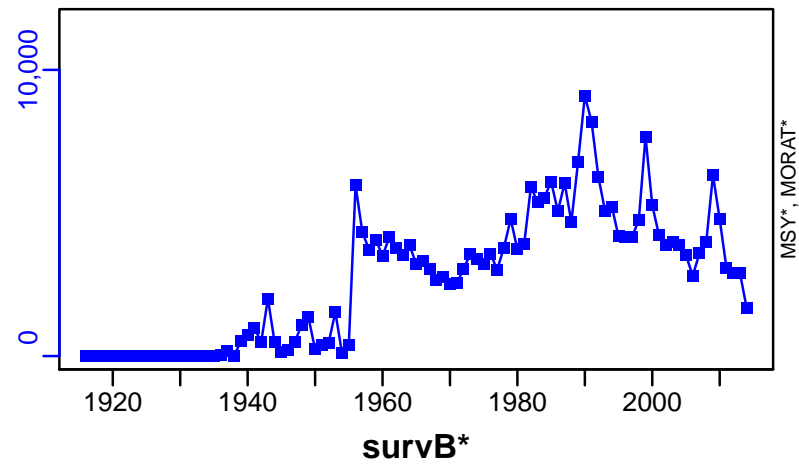
R-E00 (1914–2015–SISIMP2016)



Arrowtooth flounder Pacific Coast [ARFLOUNDP coast]

TC-MT, TL*, RecC* (1914-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Aurora rockfish Pacific Coast [AUROCKPCOAST]

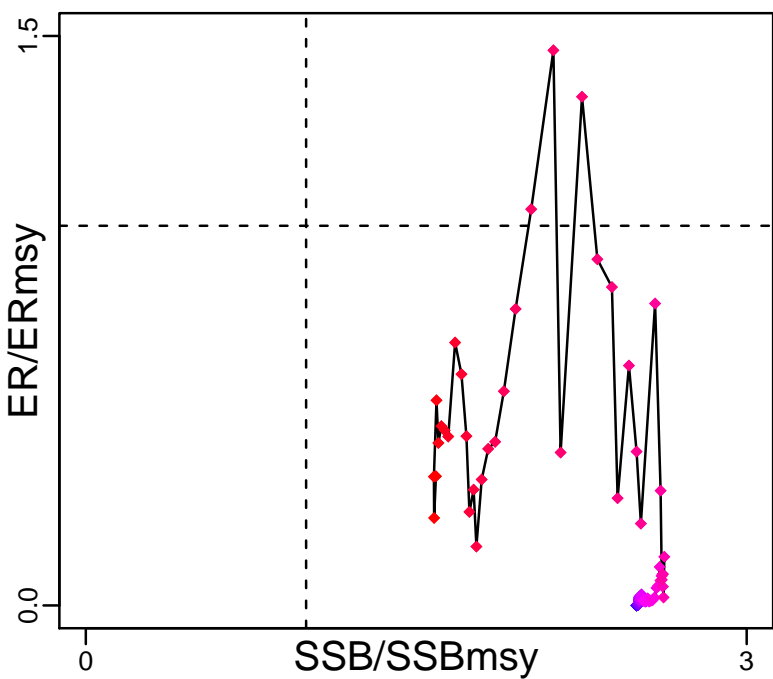
Metadata	
Scientific Name	Sebastes aurora
Current Assess ID	NWFSC-AUROCKPCOAST-1916-2013-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	1050
Fmsy	Fmsy-1/yr	2013	0.5
ERmsy	ERmsy-conv-ratio	2013	0.03
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	-	-	-

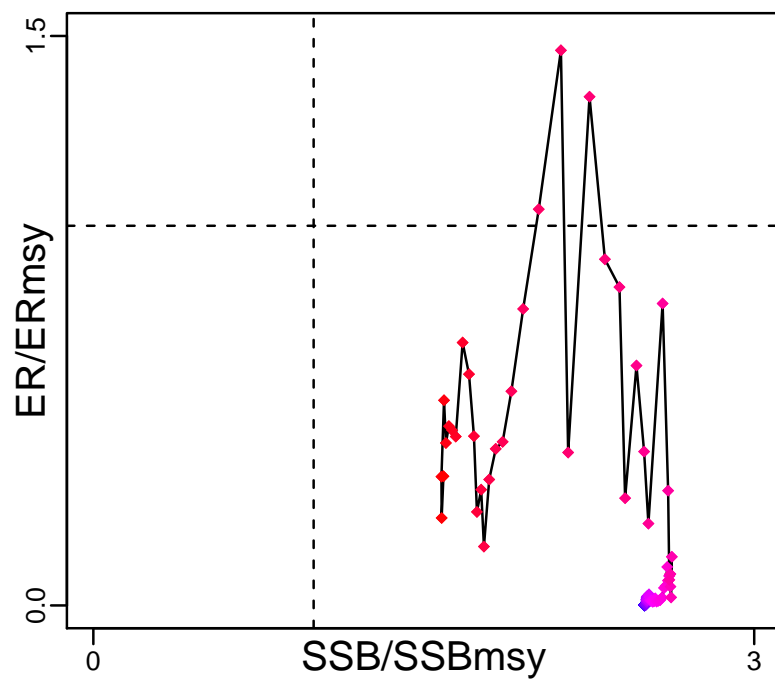
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	4370	-	0+
SSB	SSB-MT	2013	1670	Females	12.56
TN	-	-	-	-	-
R	R-E00	2013	736,000	-	0
F	F-1/yr	2013	0	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	42.7		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.59		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.61		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2013	0.34		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Aurora rockfish Pacific Coast [AUROCKPCOAST]

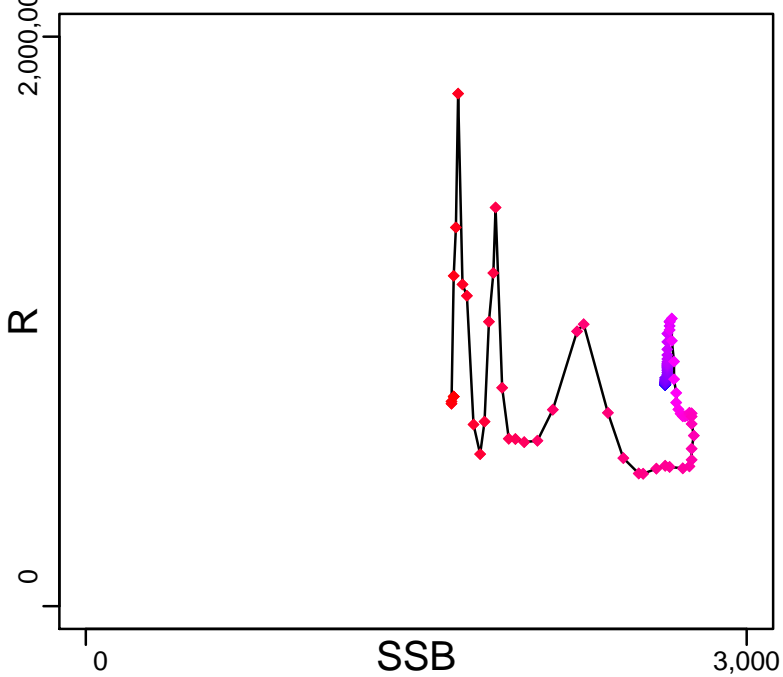
Kobe MSYpref (1916–2013–SISIMP2016)



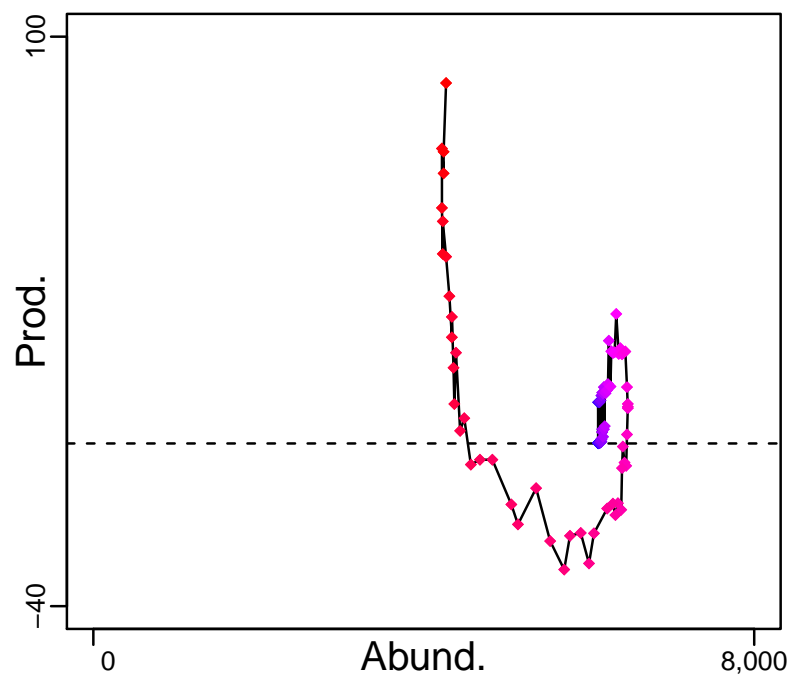
Kobe MGTpref (1916–2013–SISIMP2016)



Spawner Recruit (1916–2013–SISIMP2016)



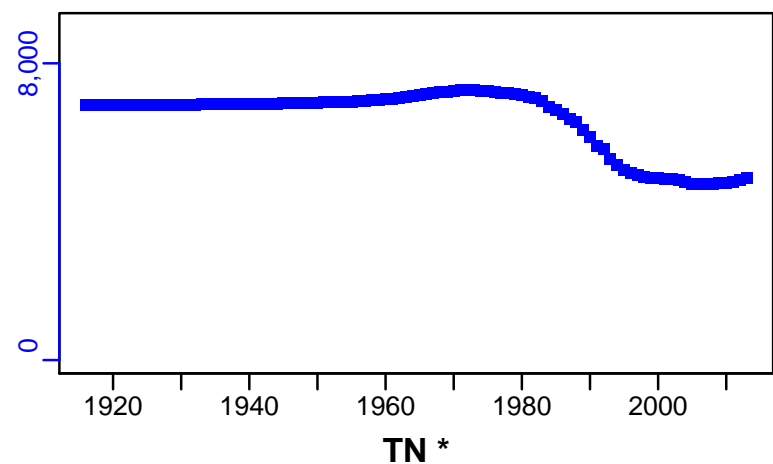
Production (1916–2013–SISIMP2016)



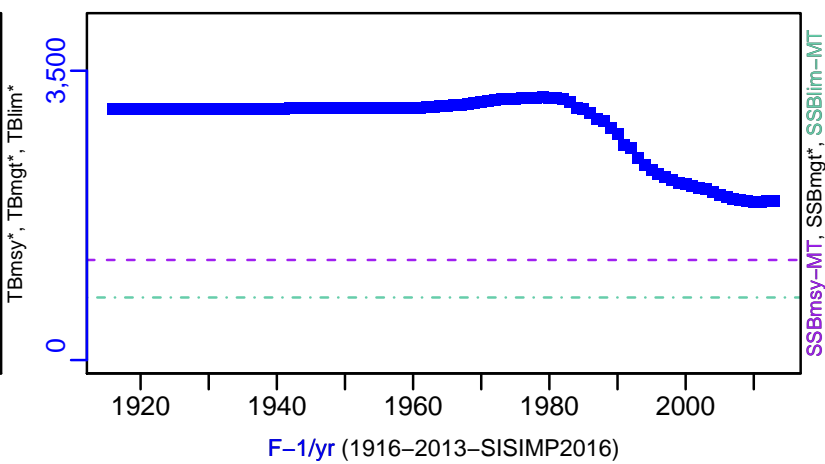
◆ Start Year ◆ End Year * No Data

Aurora rockfish Pacific Coast [AUROCKPCOAST]

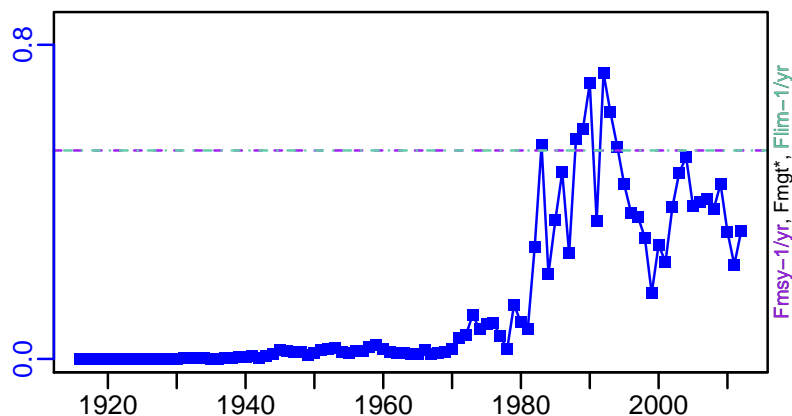
TB-MT (1916-2013-SISIMP2016)



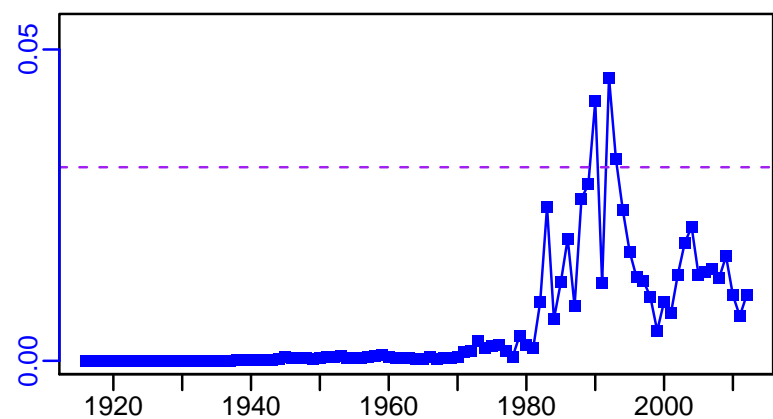
SSB-MT (1916-2013-SISIMP2016)



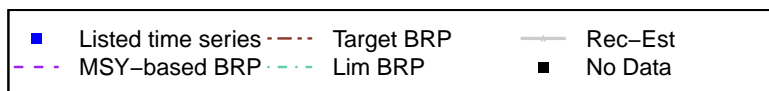
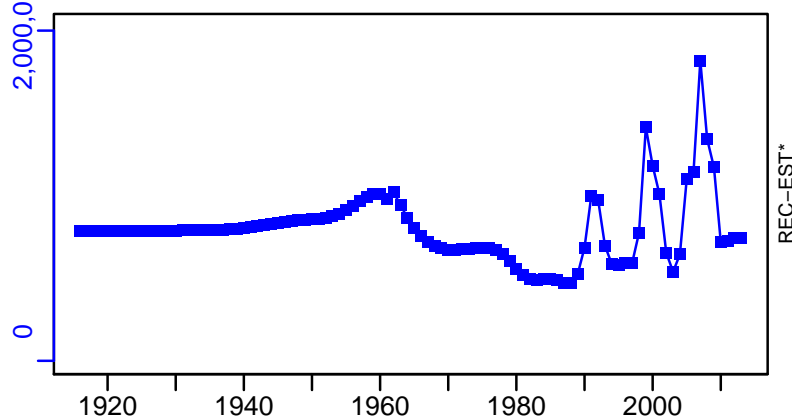
F-1/yr (1916-2013-SISIMP2016)



ER-calc-ratio (1916-2013-SISIMP2016)



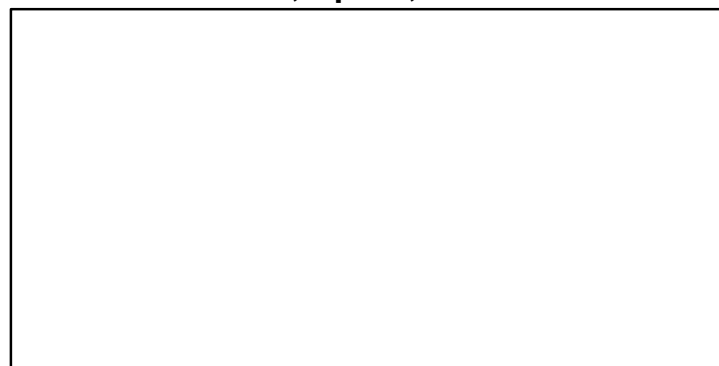
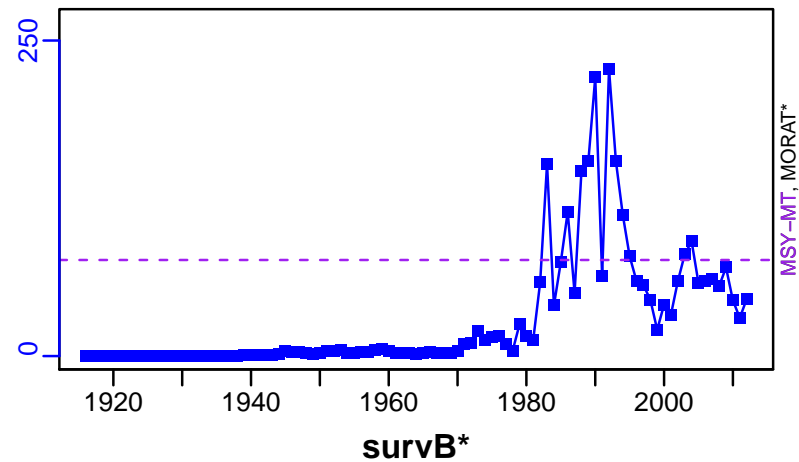
R-E00 (1916-2013-SISIMP2016)



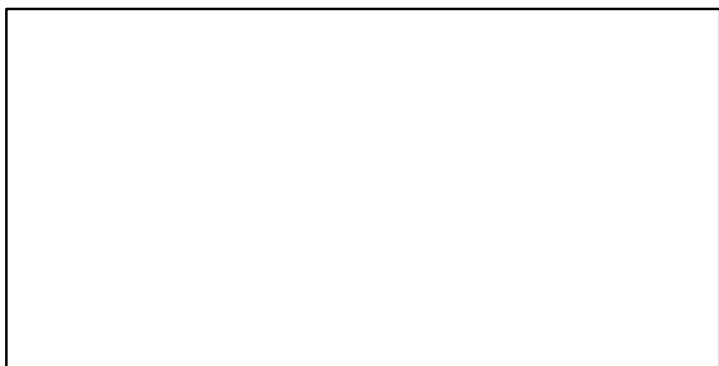
Aurora rockfish Pacific Coast [AUROCKPCOAST]

TC-MT, TL*, RecC* (1916-2013-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Blackgill rockfish Pacific Coast [BGROCKPCOAST]

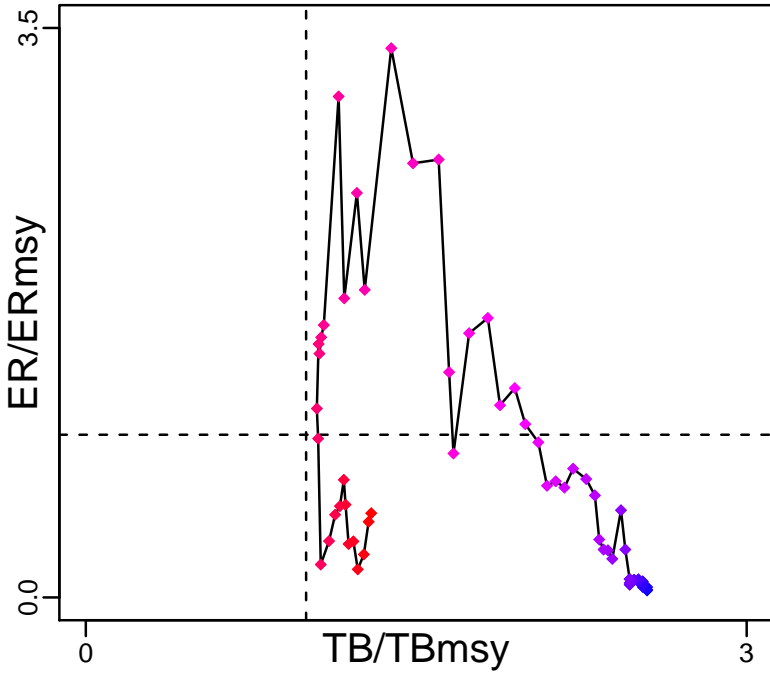
Metadata	
Scientific Name	Sebastes melanostomus
Current Assess ID	NWFSC-BGROCKPCOAST-1950-2011-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	5063
SSBmsy	SSBmsy-pr-E00larvae	2011	475,100
Fmsy	Fmsy-pr-1/yr	2011	0.02
ERmsy	ERmsy-ratio	2011	0.04
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	-	-	-

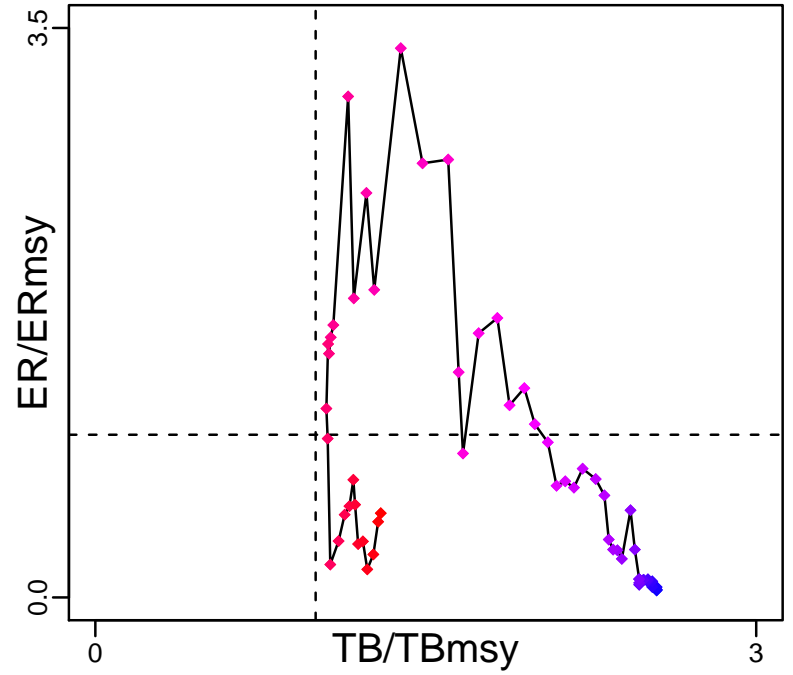
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	6590	-	0+
SSB	SSB-E00larvae	2011	359,000	Females	20+
TN	-	-	-	-	-
R	R-E00	2011	1,920,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2011	0	-	-
TC	TC-MT	2011	149		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.3		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-pr-E00larvae	2011	0.76		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.52		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blackgill rockfish Pacific Coast [BGROCKPCOAST]

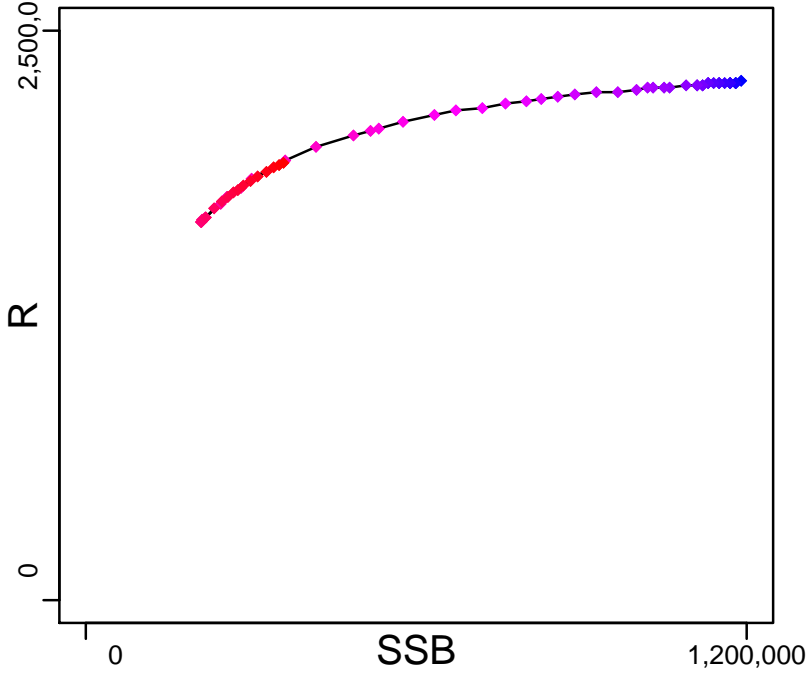
Kobe MSYpref (1950–2011–STACHURA)



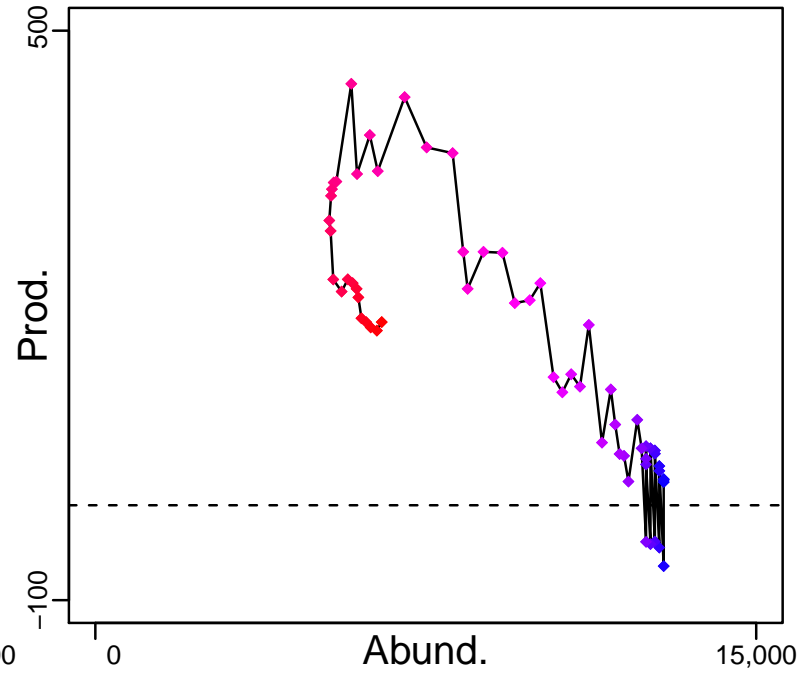
Kobe MGTpref (1950–2011–STACHURA)



Spawner Recruit (1950–2011–STACHURA)



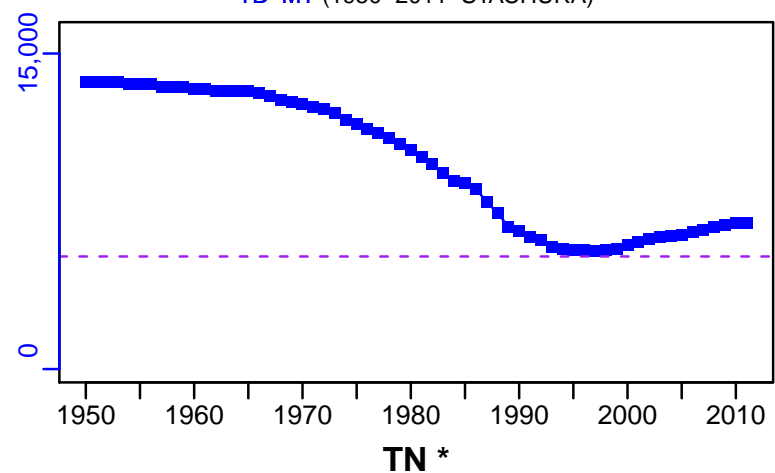
Production (1950–2011–STACHURA)



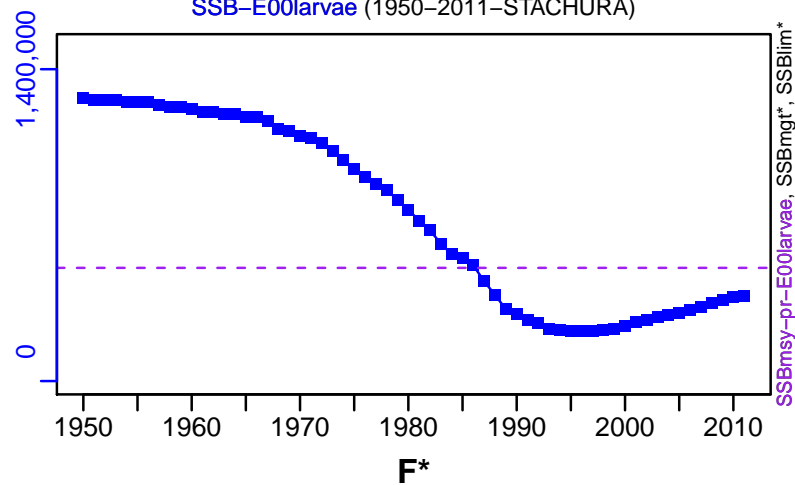
◆ Start Year ◆ End Year * No Data

Blackgill rockfish Pacific Coast [BGROCKPCOAST]

TB-MT (1950-2011-STACHURA)



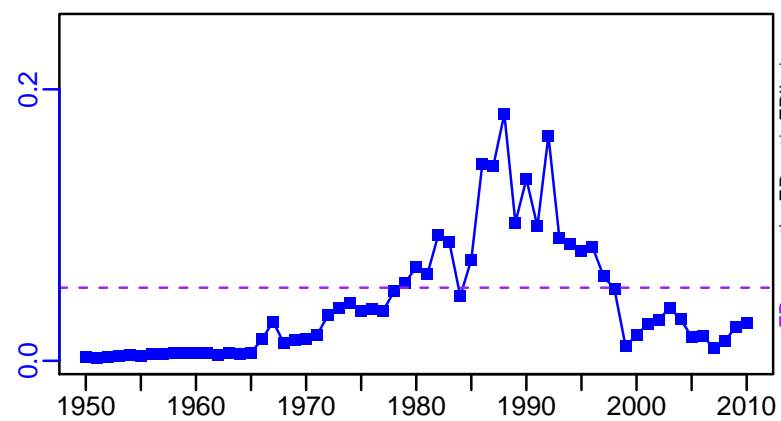
SSB-E00larvae (1950-2011-STACHURA)



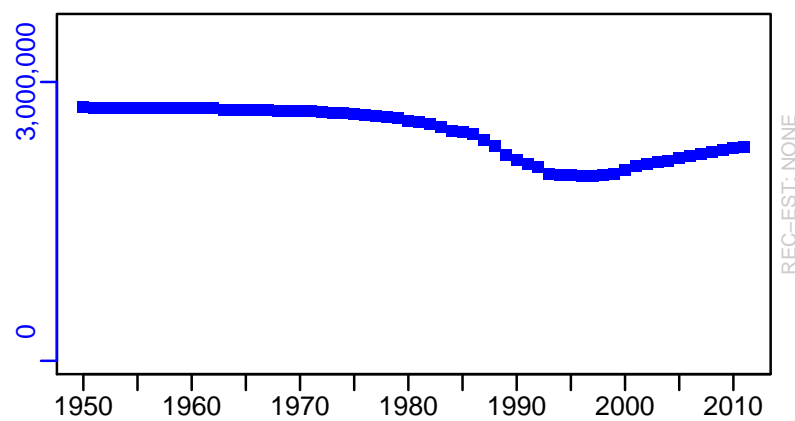
TN *

F*

ER-ratio (1950-2011-STACHURA)



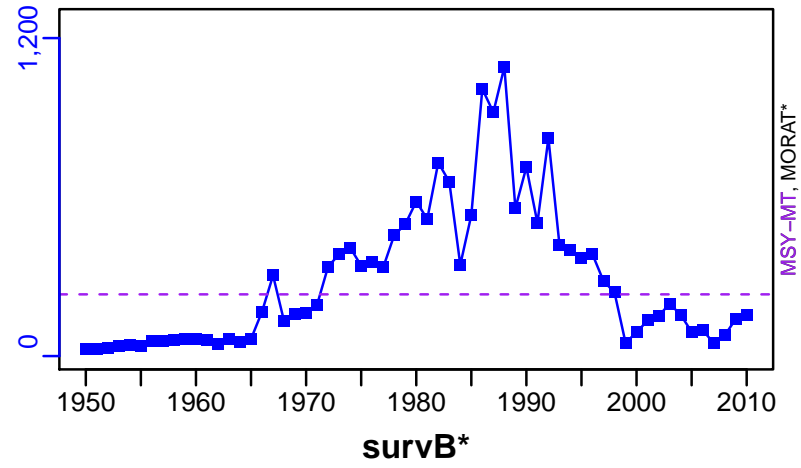
R-E00 (1950-2011-STACHURA)



Blackgill rockfish Pacific Coast [BGROCKPCOAST]

TC-MT, TL*, RecC* (1950-2011-STACHURA)

TAC*, Cpair*, Cadv*



EFFORT*



Black rockfish California [BLACKROCKCAL]

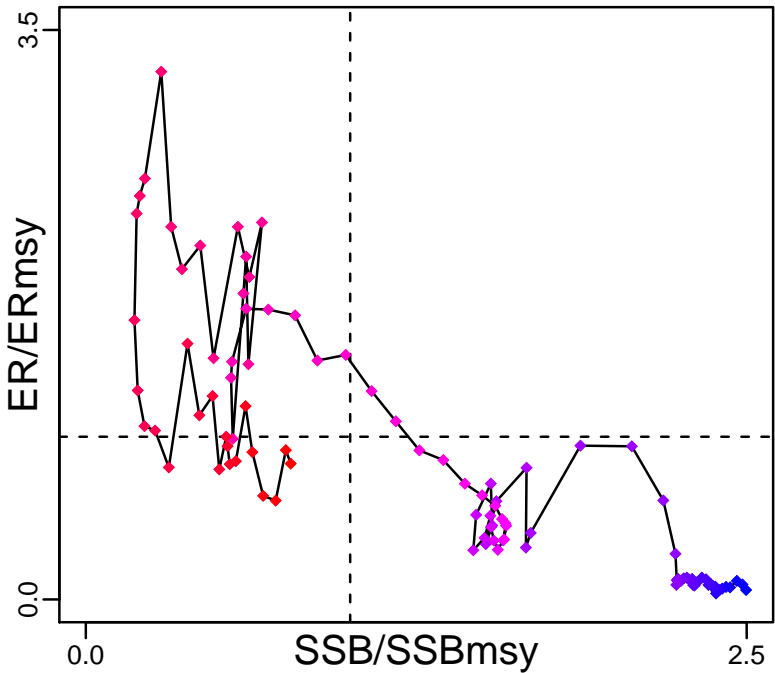
Metadata	
Scientific Name	Sebastes melanops
Current Assess ID	SWFSC-BLACKROCKCAL-1916-2015-SISIMP2016
Area	California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	425
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-conv-ratio	2015	0.08
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	343
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	266
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

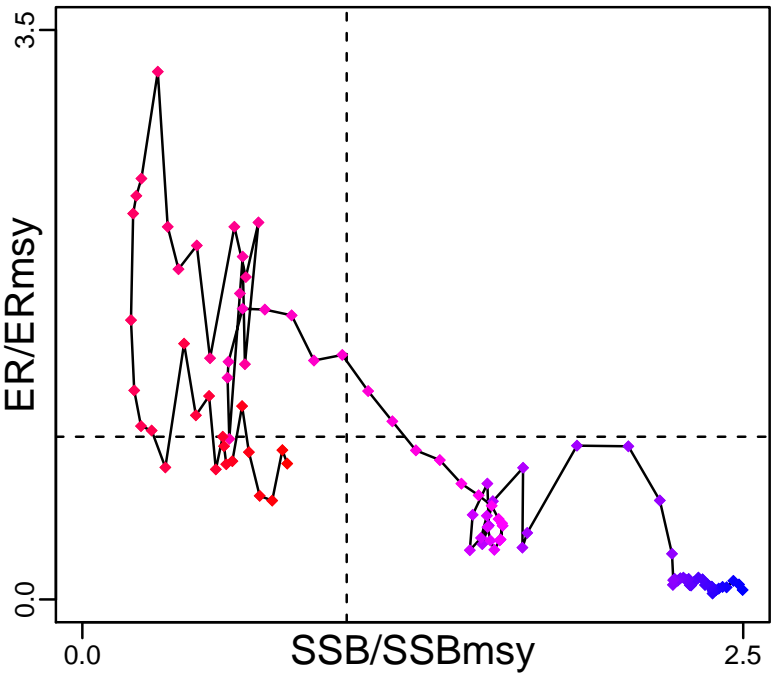
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	5770	-	3+
SSB	SSB-MT	2015	353	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	1,750,000	-	0
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.83		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.07		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2015	0.83		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish California [BLACKROCKCAL]

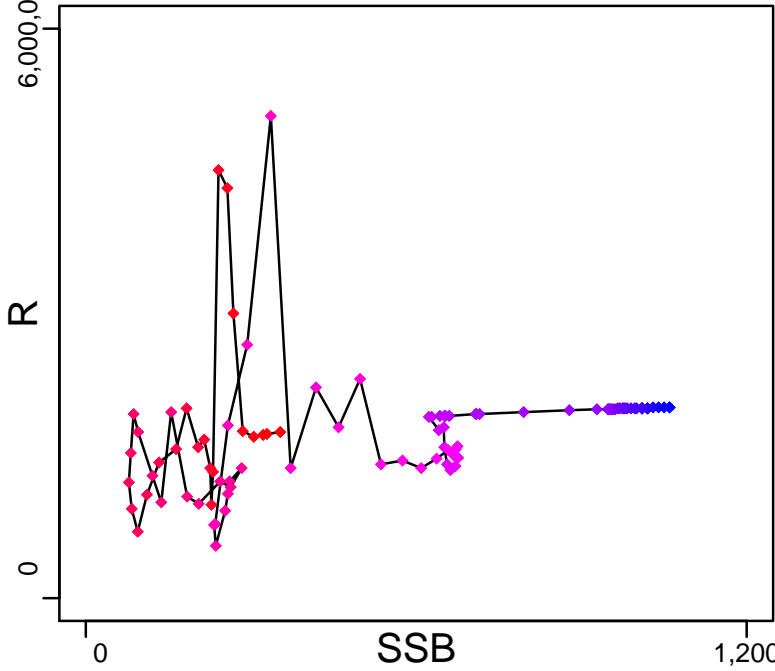
Kobe MSYpref (1916–2015–SISIMP2016)



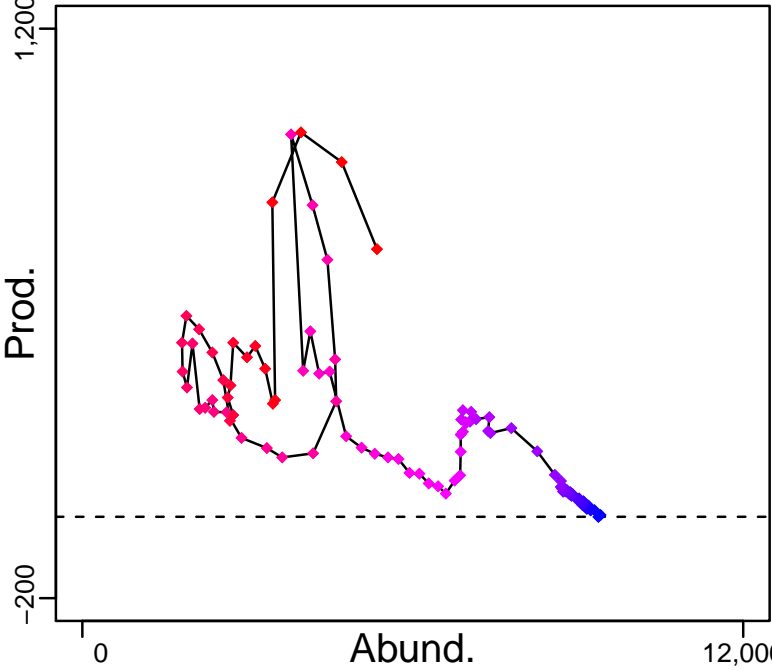
Kobe MGTpref (1916–2015–SISIMP2016)



Spawner Recruit (1916–2015–SISIMP2016)



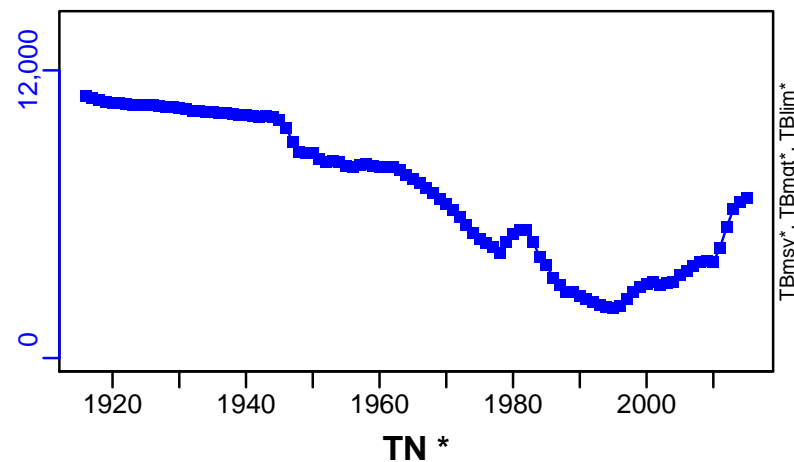
Production (1916–2015–SISIMP2016)



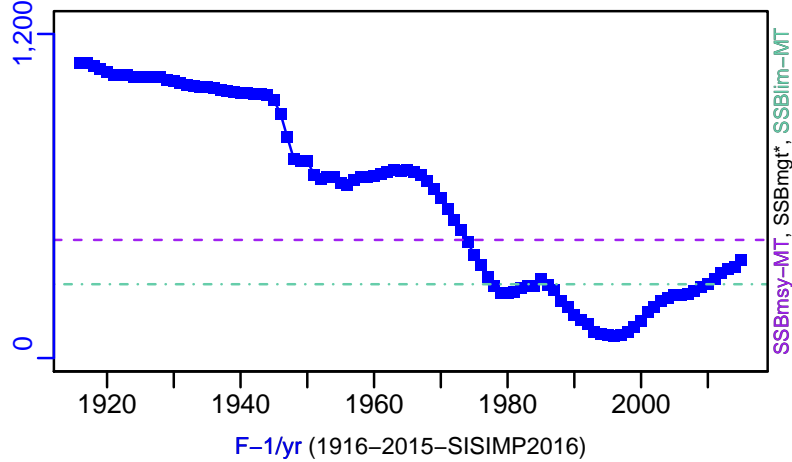
◆ Start Year ◆ End Year * No Data

Black rockfish California [BLACKROCKCAL]

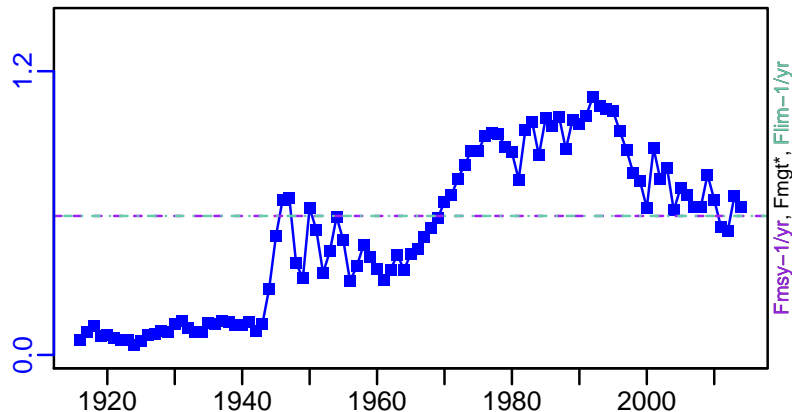
TB-MT (1916-2015-SISIMP2016)



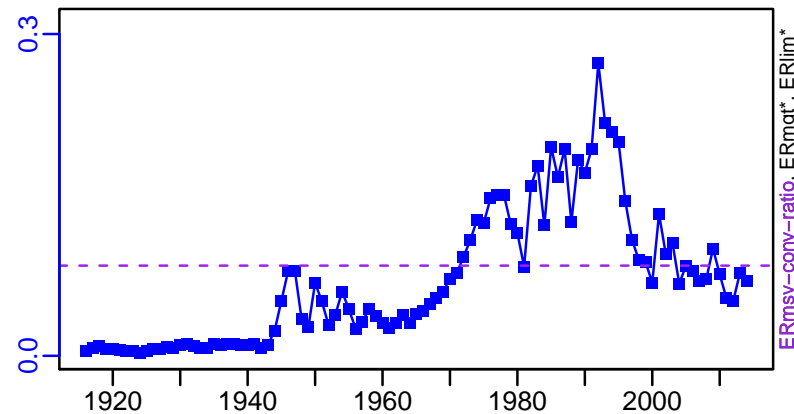
SSB-MT (1916-2015-SISIMP2016)



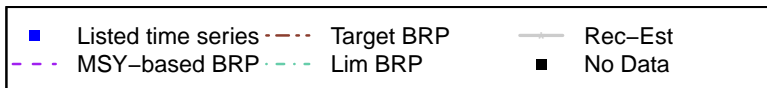
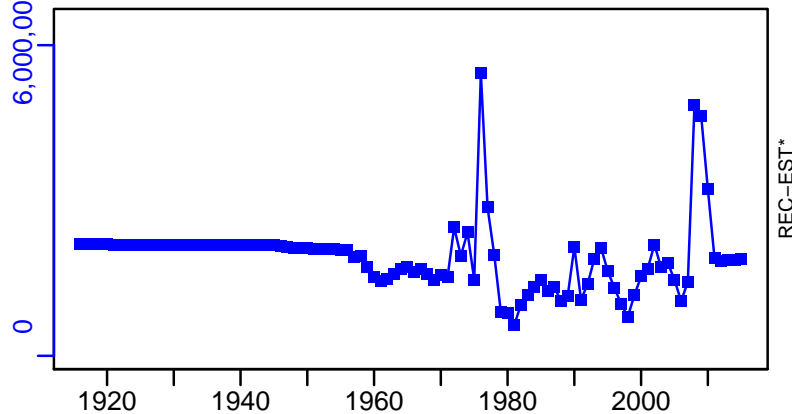
F-1/yr (1916-2015-SISIMP2016)



ER-calc-ratio (1916-2015-SISIMP2016)

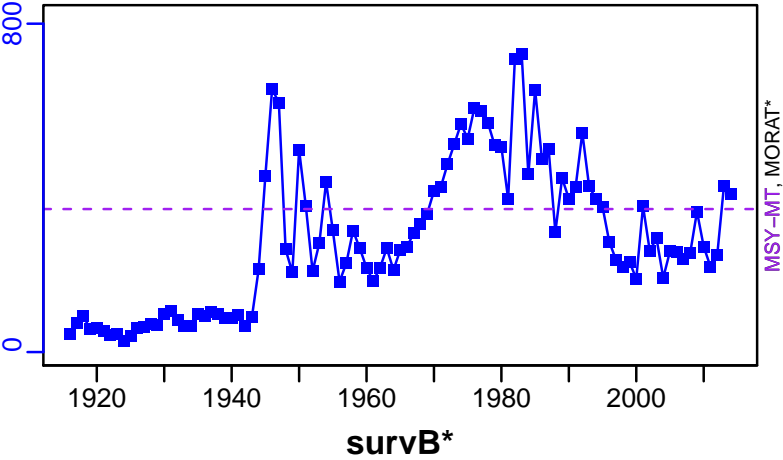


R-E00 (1916-2015-SISIMP2016)



Black rockfish California [BLACKROCKCAL]

TC-MT, TL*, RecC* (1916-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Black rockfish Oregon [BLACKROCKORECOAST]

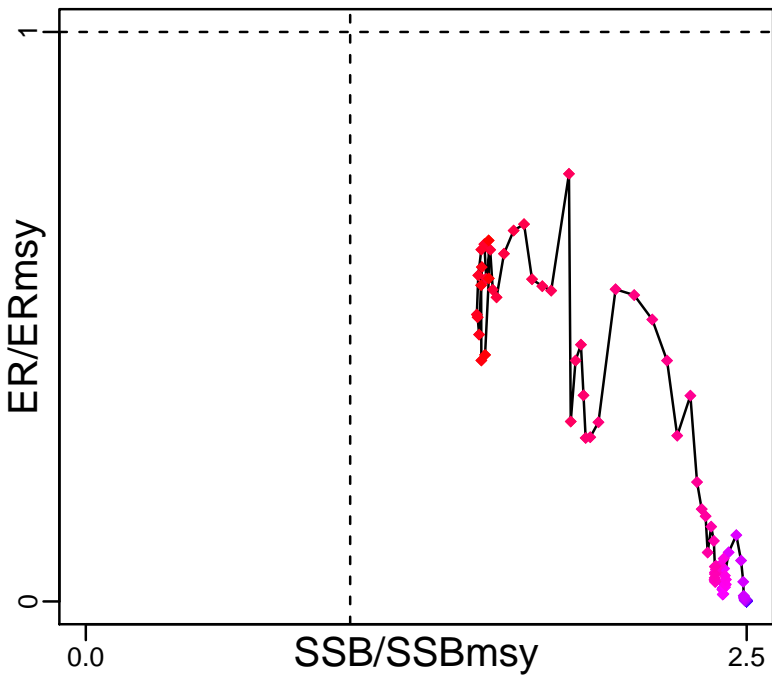
Metadata	
Scientific Name	Sebastes melanops
Current Assess ID	NWFSC-BLACKROCKORECOAST-1892-2015-SISIMP2016
Area	Oregon Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	554
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-conv-ratio	2015	0.09
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	-	-	-

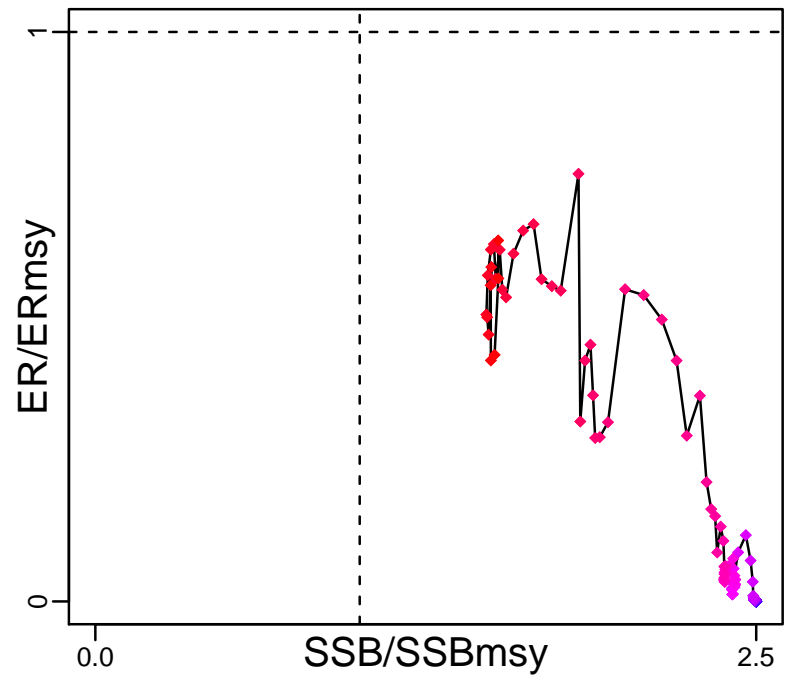
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	8060	-	3+
SSB	SSB-MT	2015	838	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	3,510,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	485		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.51		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.83		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2015	0.63		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish Oregon [BLACKROCKORECOAST]

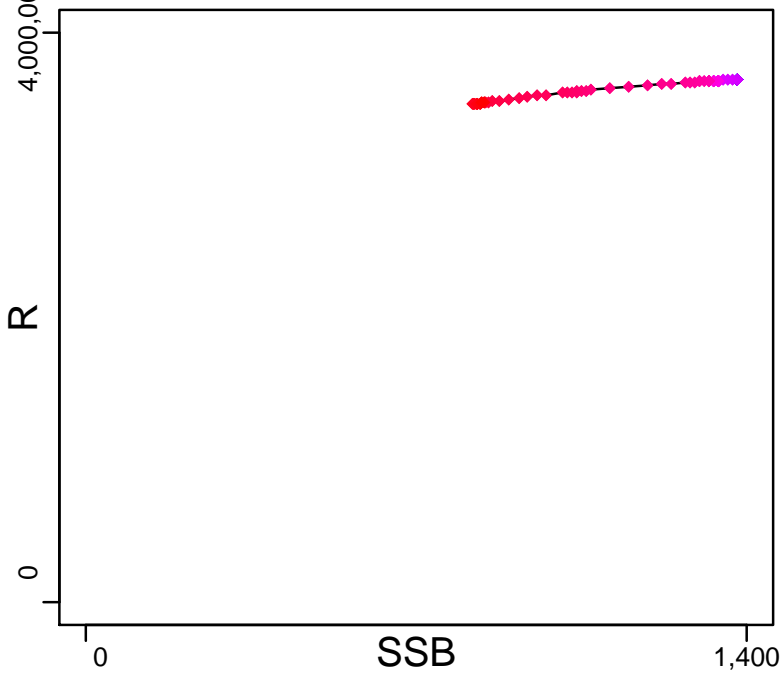
Kobe MSYpref (1892–2015–SISIMP2016)



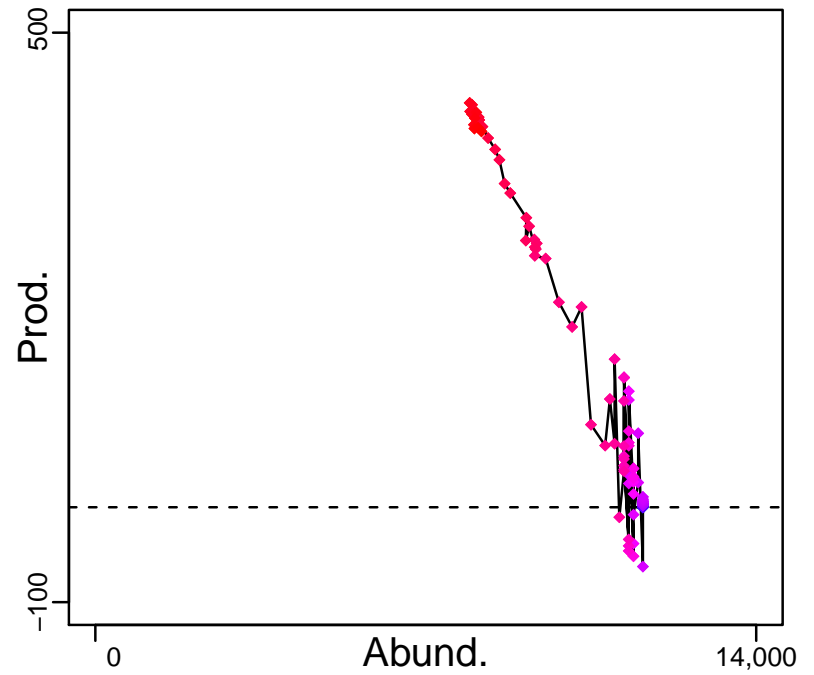
Kobe MGTpref (1892–2015–SISIMP2016)



Spawner Recruit (1892–2015–SISIMP2016)



Production (1892–2015–SISIMP2016)

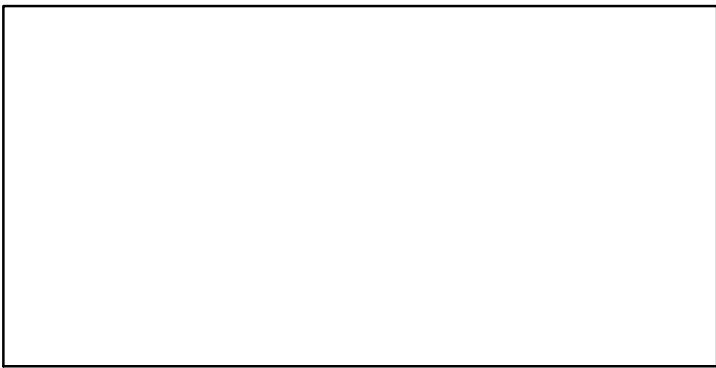
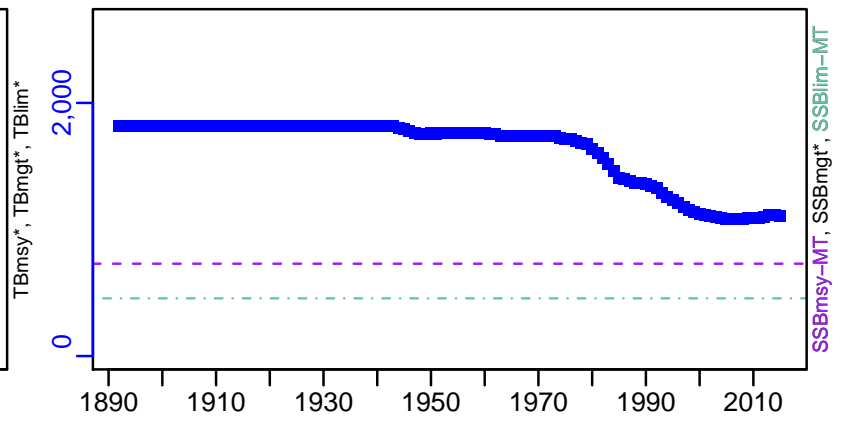
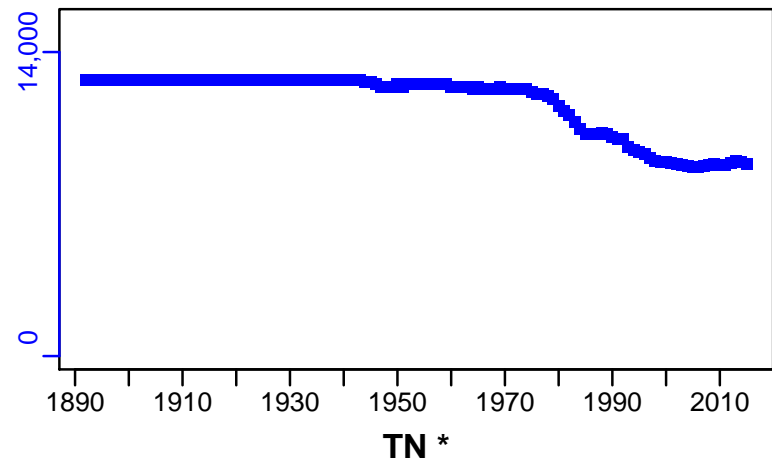


◆ Start Year ◆ End Year * No Data

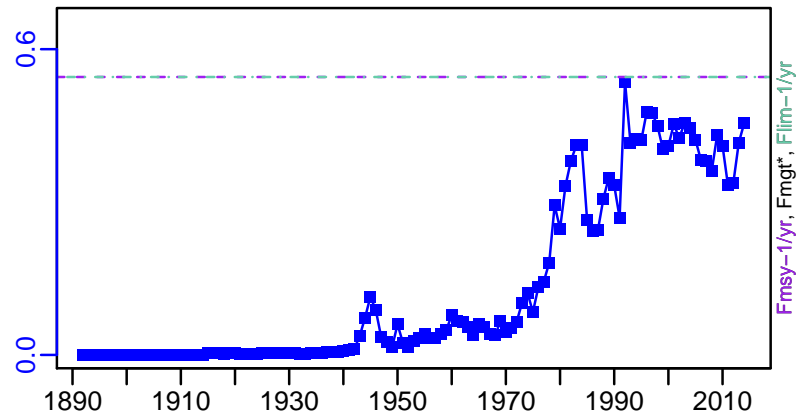
Black rockfish Oregon [BLACKROCKORECOAST]

TB-MT (1892-2015-SISIMP2016)

SSB-MT (1892-2015-SISIMP2016)

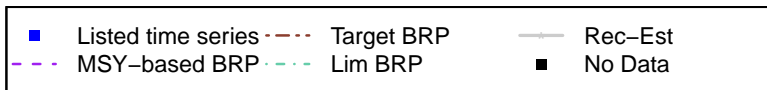
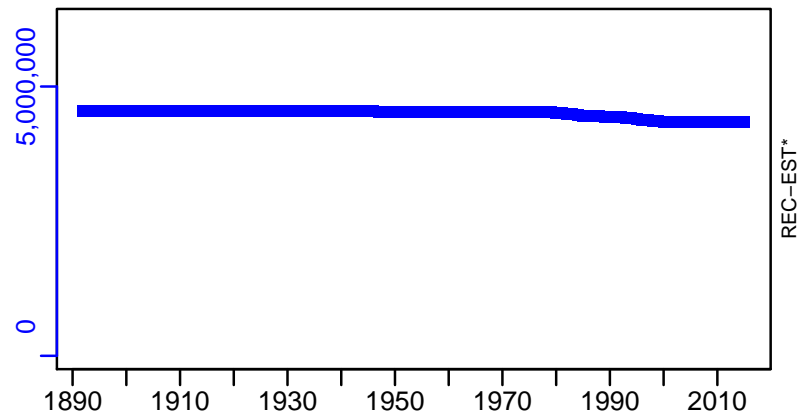
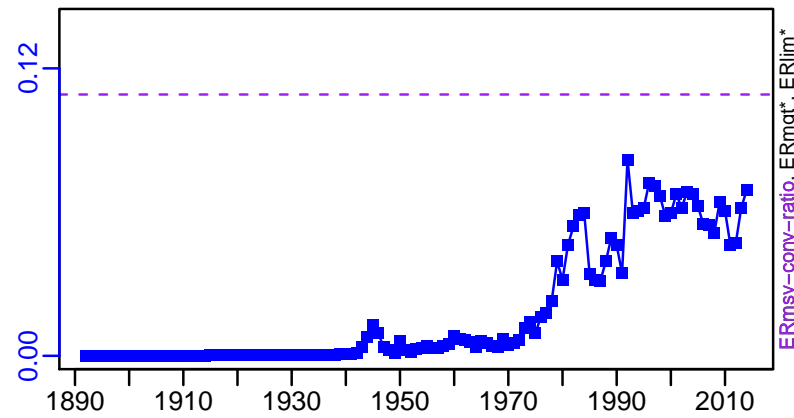


F-1/yr (1892-2015-SISIMP2016)



ER-calc-ratio (1892-2015-SISIMP2016)

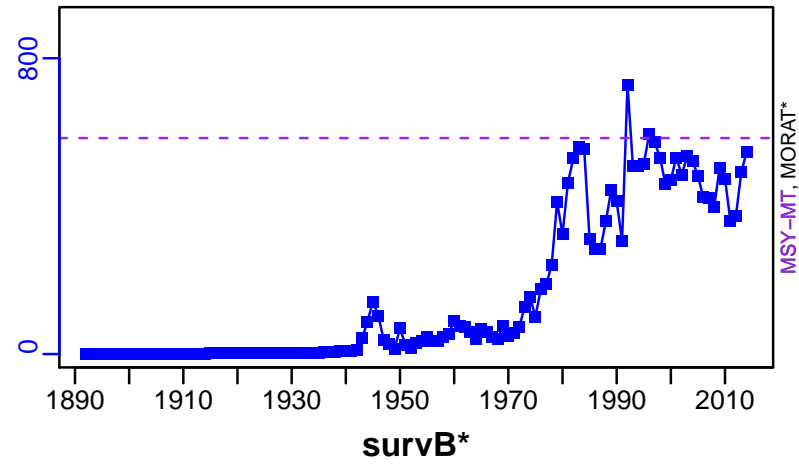
R-E00 (1892-2015-SISIMP2016)



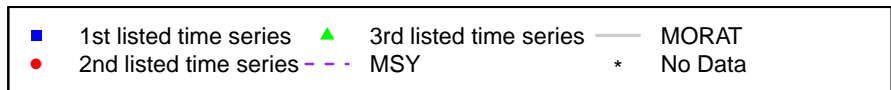
Black rockfish Oregon [BLACKROCKORECOAST]

TC-MT, TL*, RecC* (1892-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Black rockfish Washington [BLACKROCKWASH]

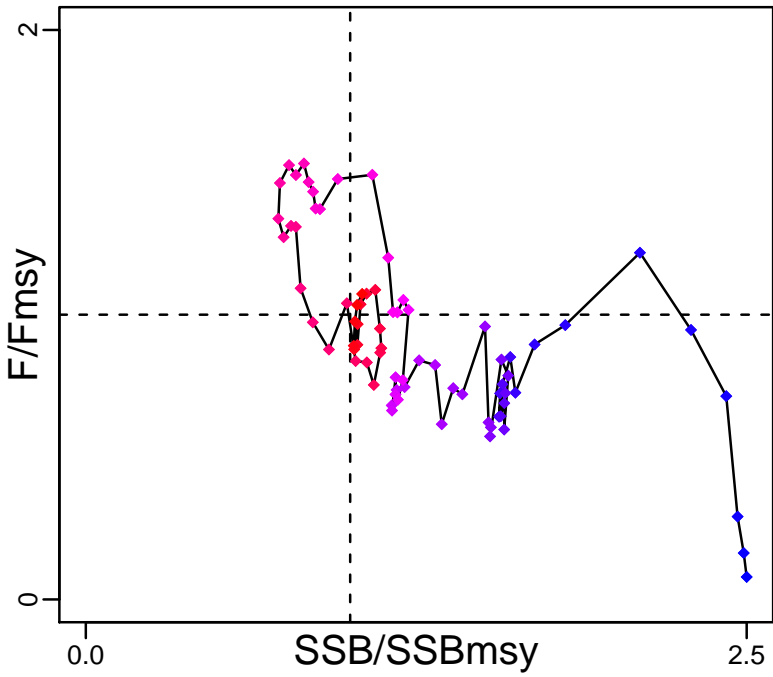
Metadata	
Scientific Name	Sebastes melanops
Current Assess ID	NWFSC-BLACKROCKWASH-1940-2015-SISIMP2016
Area	Washington
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	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	-	-	-

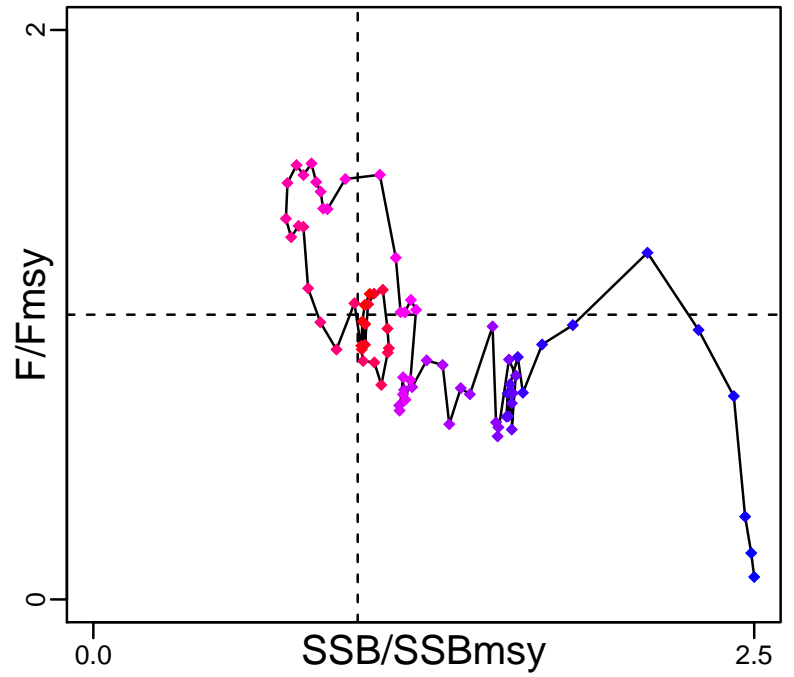
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	5640	-	3+
SSB	SSB-MT	2015	582	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	1,910,000	-	0
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	356		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.07		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.07		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black rockfish Washington [BLACKROCKWASH]

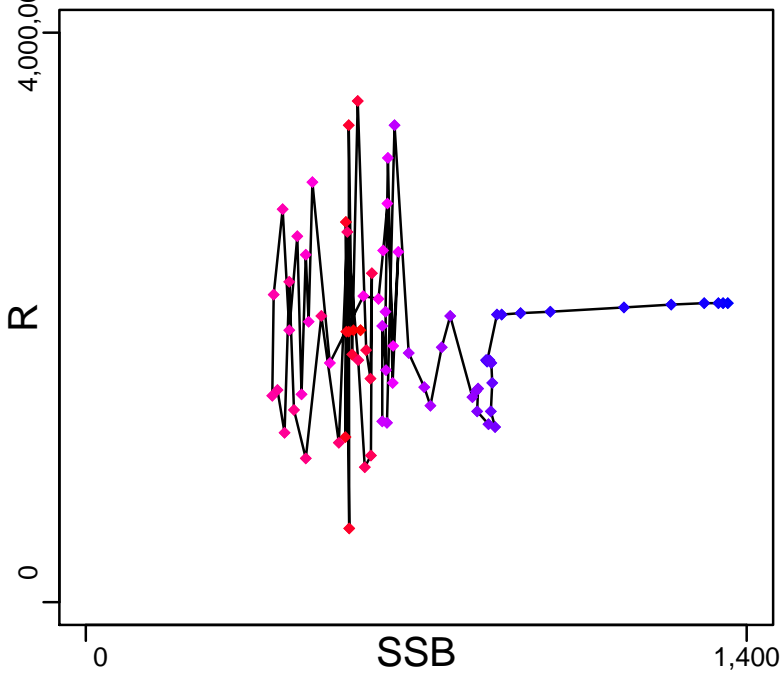
Kobe MSYpref (1940–2015–SISIMP2016)



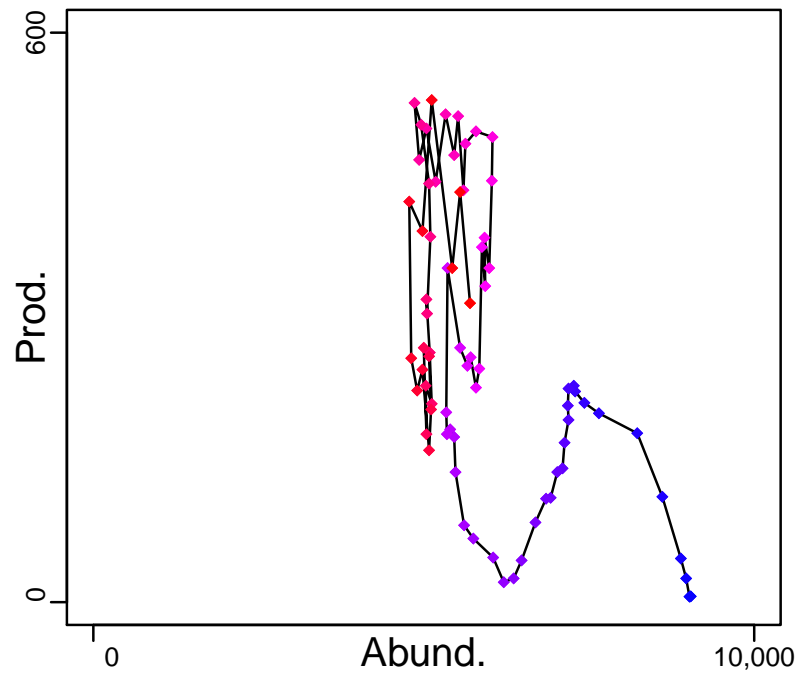
Kobe MGTpref (1940–2015–SISIMP2016)



Spawner Recruit (1940–2015–SISIMP2016)



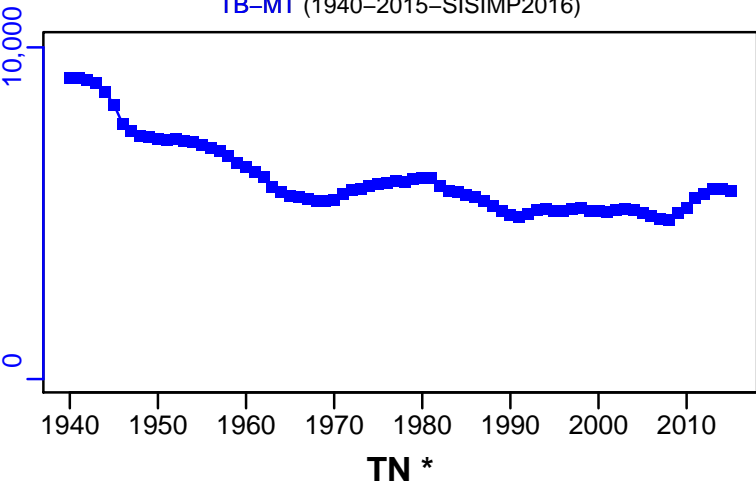
Production (1940–2015–SISIMP2016)



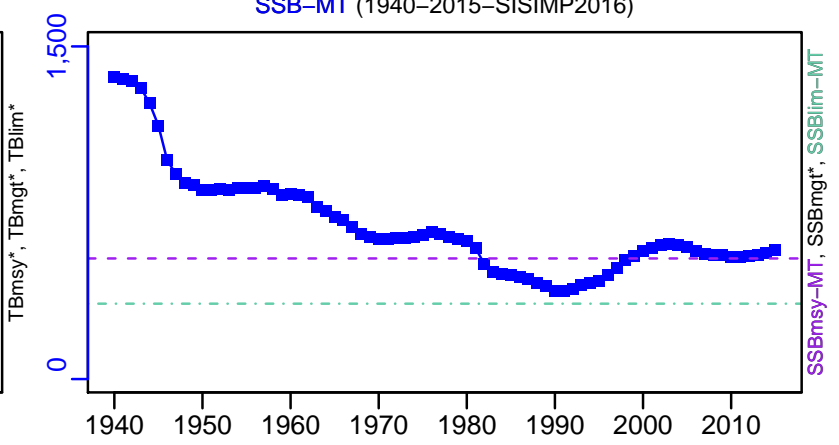
◆ Start Year ◆ End Year * No Data

Black rockfish Washington [BLACKROCKWASH]

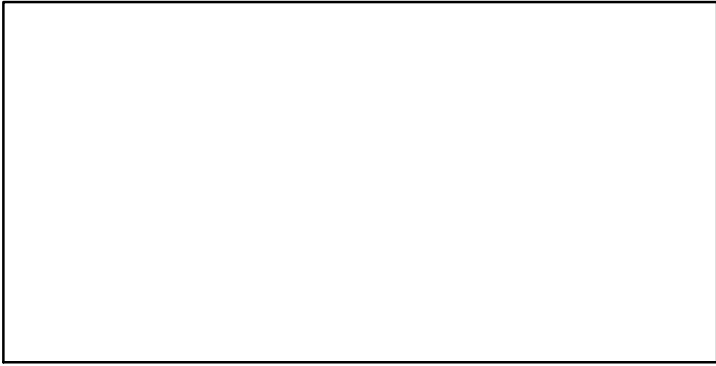
TB-MT (1940–2015–SISIMP2016)



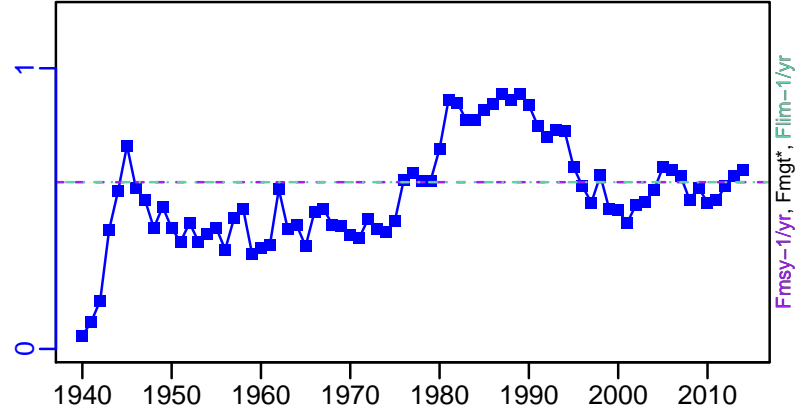
SSB-MT (1940–2015–SISIMP2016)



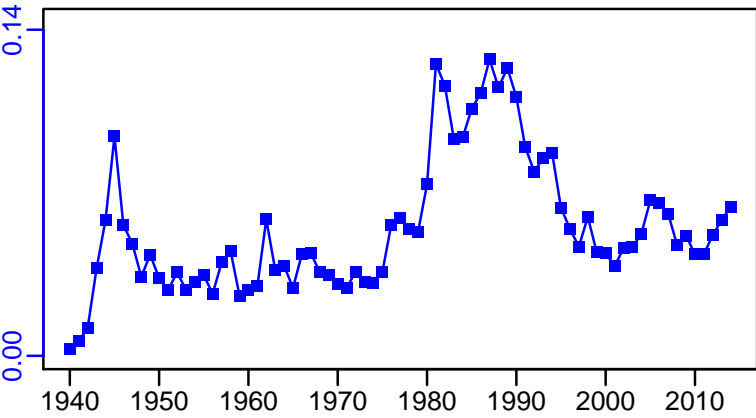
TN *



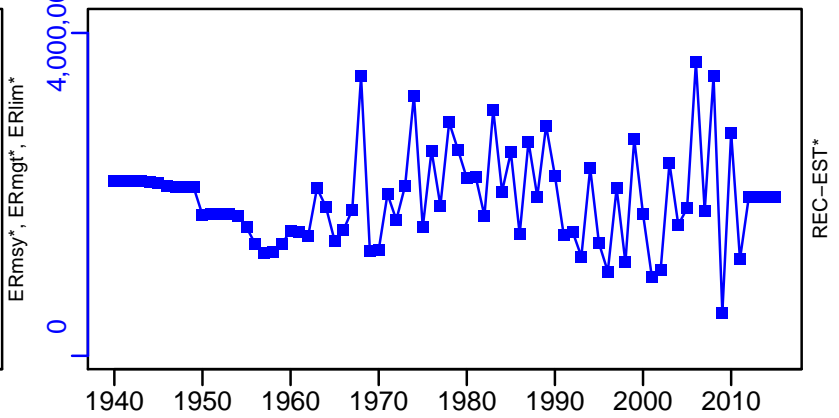
F-1/yr (1940–2015–SISIMP2016)



ER-calc-ratio (1940–2015–SISIMP2016)

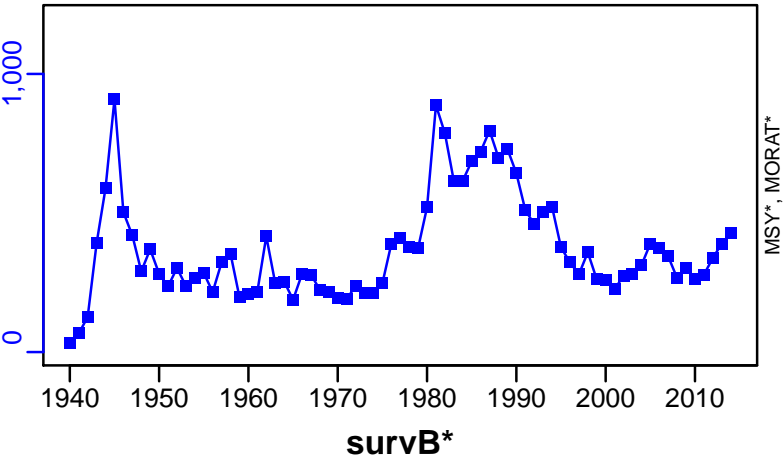


R-E00 (1940–2015–SISIMP2016)



Black rockfish Washington [BLACKROCKWASH]

TC-MT, TL*, RecC* (1940-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Blue rockfish California [BLUEROCKCAL]

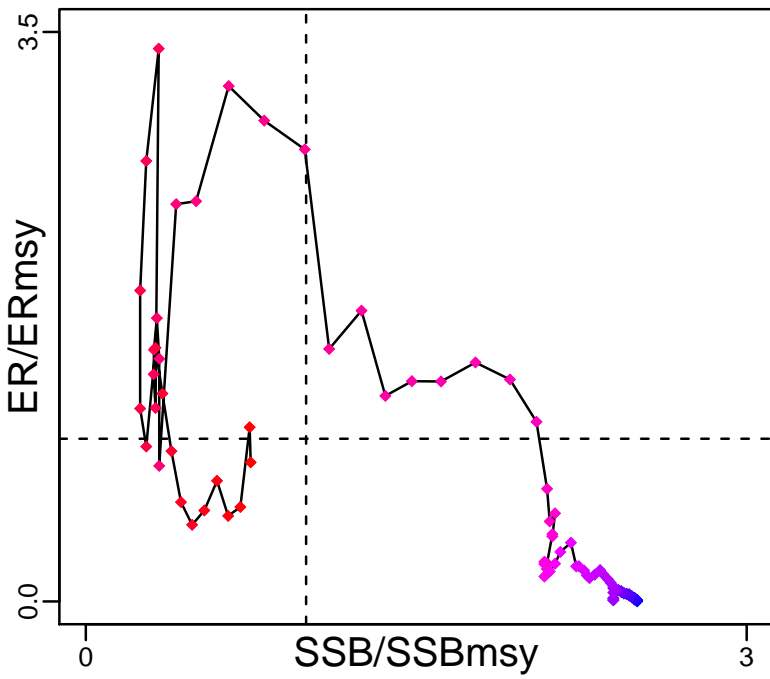
Metadata	
Scientific Name	Sebastes mystinus
Current Assess ID	NWFSC-BLUEROCKCAL-1916-2007-BRANCH
Area	California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-E00larvae	2007	8.31×10^8
Fmsy	Fmsy-pr-1/yr	2007	0.04
ERmsy	ERmsy-conv-ratio	2007	0.06
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	-	-	-

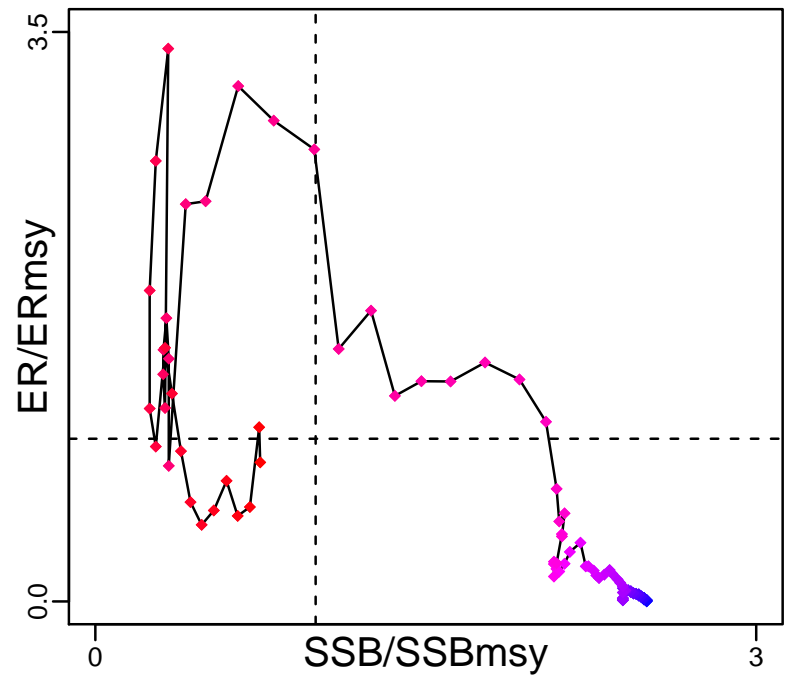
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	5450	-	1+
SSB	SSB-E00larvae	2007	6.22×10^8	Females	6+
TN	-	-	-	-	-
R	R-E00	2007	2,260,000	-	0
F	F-1/yr	2007	0	Both	1+
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	263		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-pr-E00larvae	2007	0.75		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2007	1.19		
ER/ERmsy	ER-ratio/ERmsy-conv-ratio	2007	0.85		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blue rockfish California [BLUEROCKCAL]

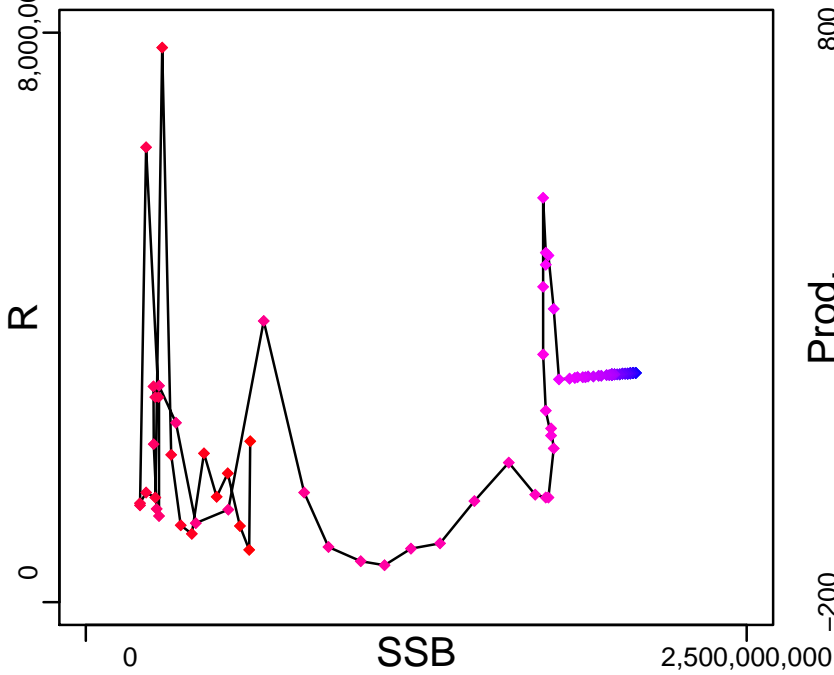
Kobe MSYpref (1916–2007–BRANCH)



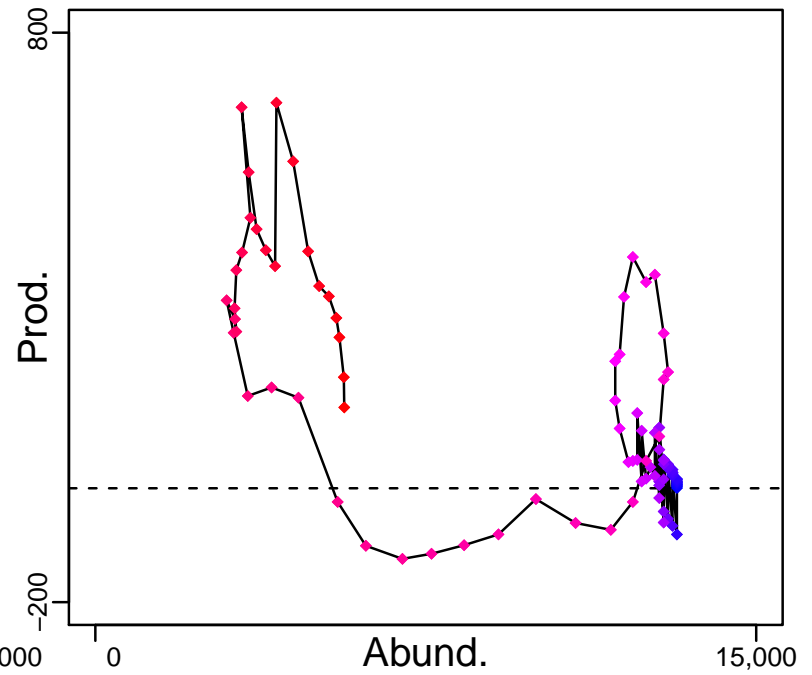
Kobe MGTpref (1916–2007–BRANCH)



Spawner Recruit (1916–2007–BRANCH)



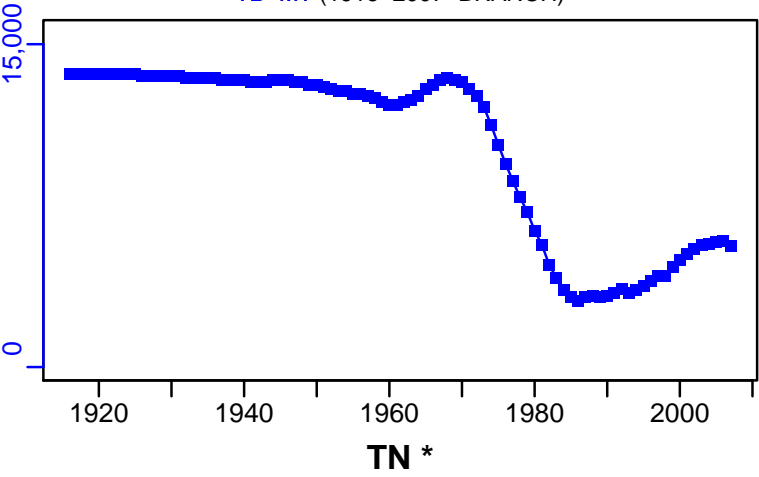
Production (1916–2007–BRANCH)



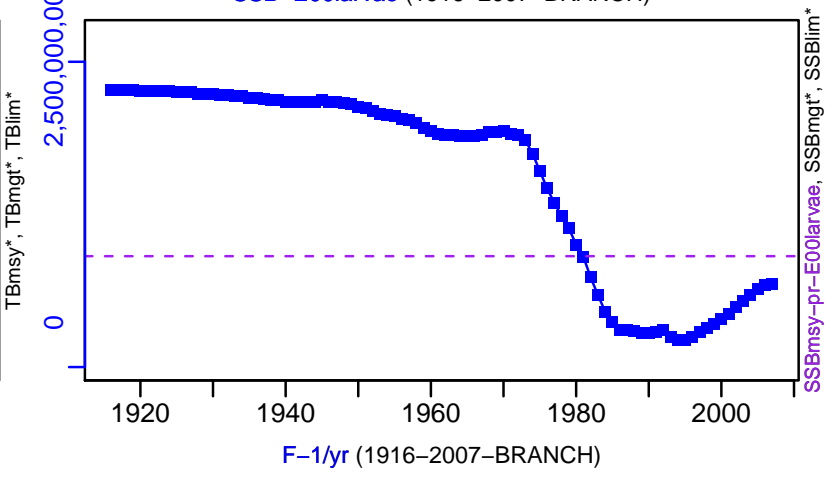
◆ Start Year ◆ End Year * No Data

Blue rockfish California [BLUEROCKCAL]

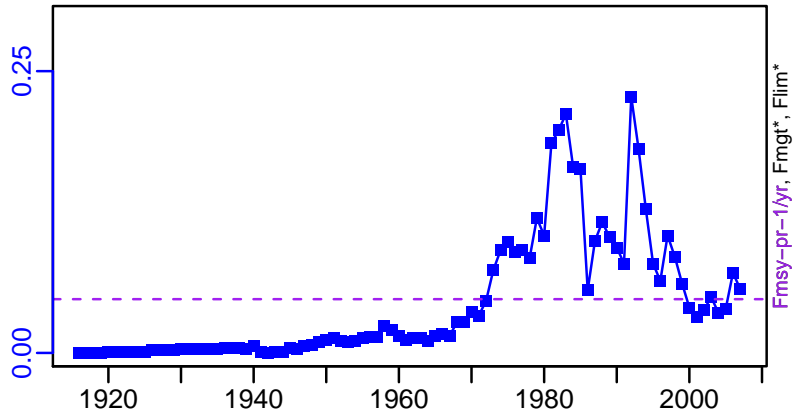
TB-MT (1916-2007-BRANCH)



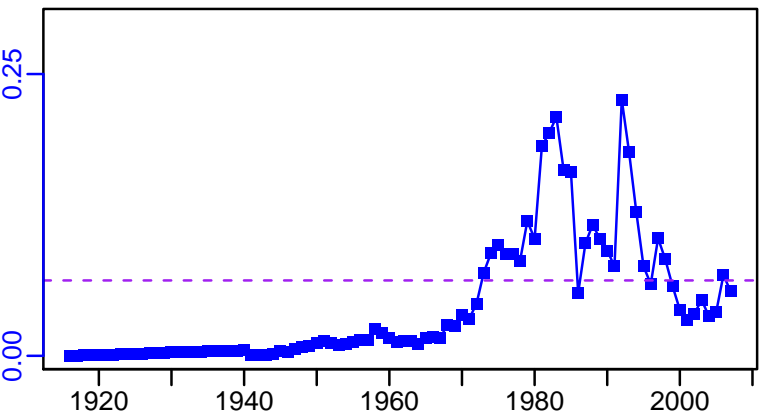
SSB-E00larvae (1916-2007-BRANCH)



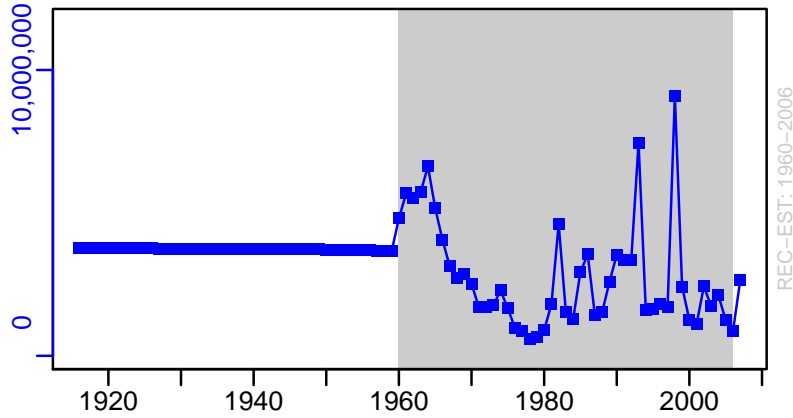
F-1/yr (1916-2007-BRANCH)



ER-ratio (1916-2007-BRANCH)

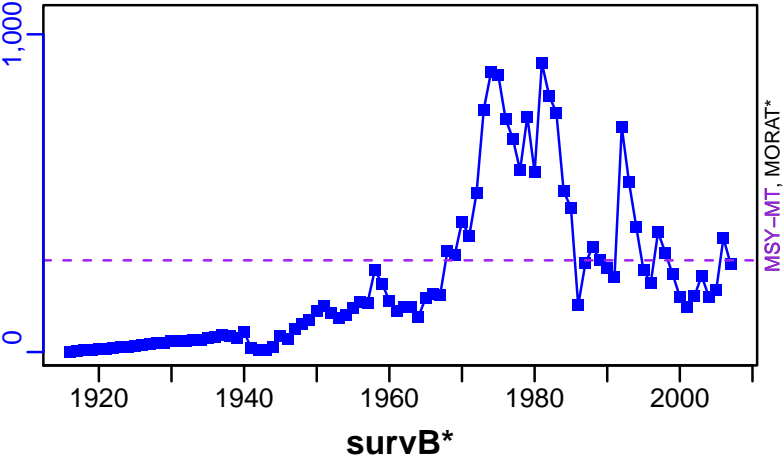


R-E00 (1916-2007-BRANCH)



Blue rockfish California [BLUEROCKCAL]

TC-MT, TL*, RecC* (1916-2007-BRANCH)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Bank Rockfish California [BNKROCKCAL]

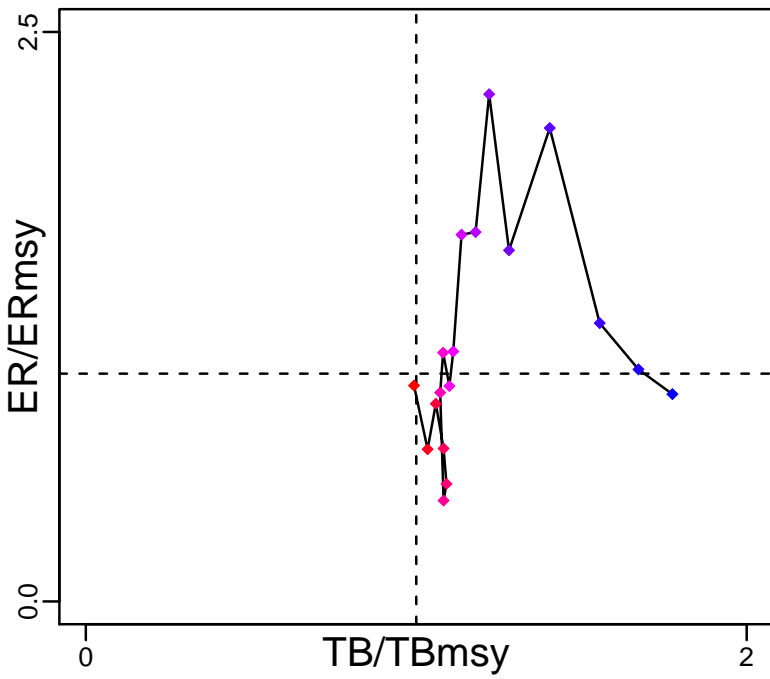
Metadata	
Scientific Name	Sebastes rufus
Current Assess ID	PFMC-BNKROCKCAL-1979-1999-CHING
Area	California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	1999

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	1999	6816
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	1999	0.09
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	1999	597
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

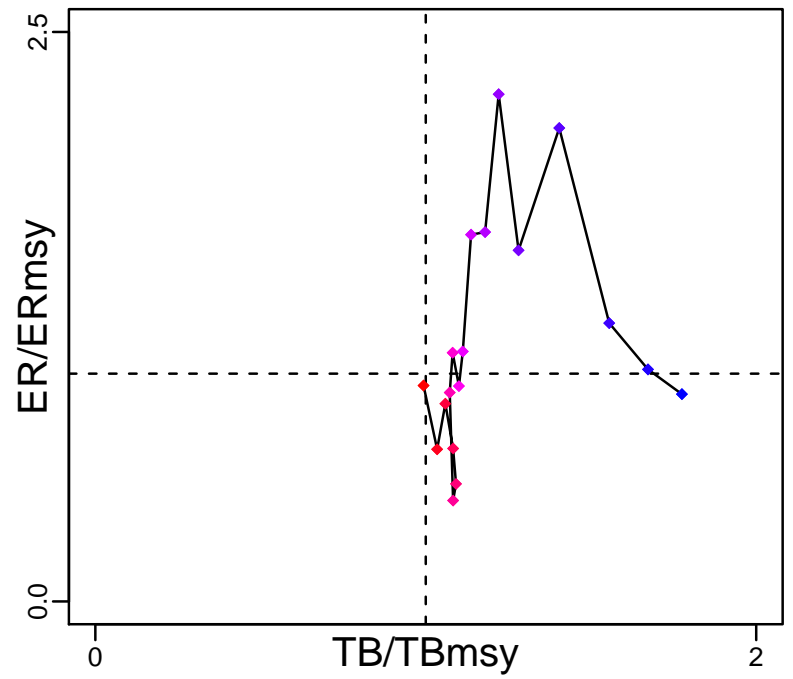
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	1999	6380	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	1999	0	-	-
TC	TC-MT	1999	562		
TL	TL-MT	1999	562		
TB/TBmsy	TB-MT/TBmsy-est-MT	1999	0.94		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	1999	0.95		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Bank Rockfish California [BNKROCKCAL]

Kobe MSYpref (1979–1999–CHING)



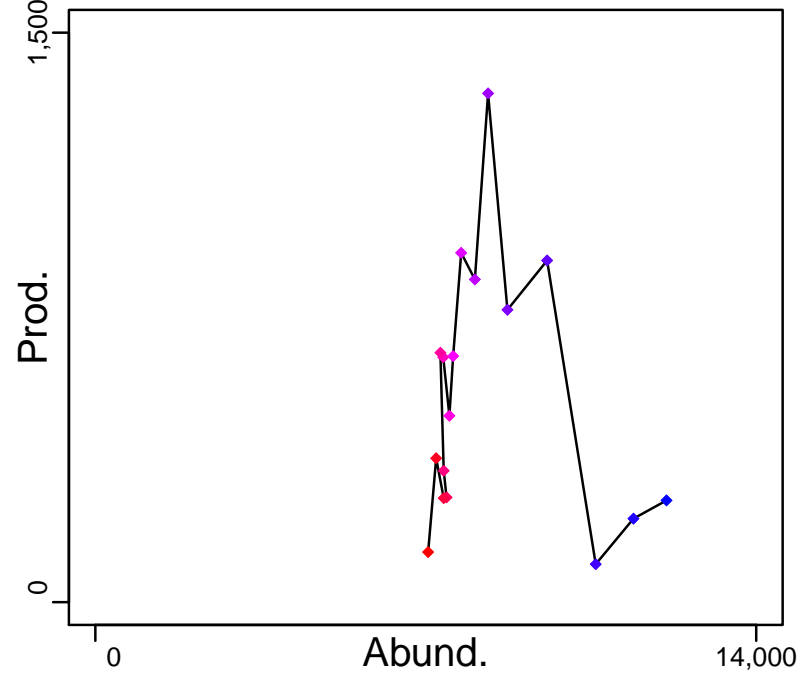
Kobe MGTpref (1979–1999–CHING)



Spawner Recruit*



Production (1979–1999–CHING)

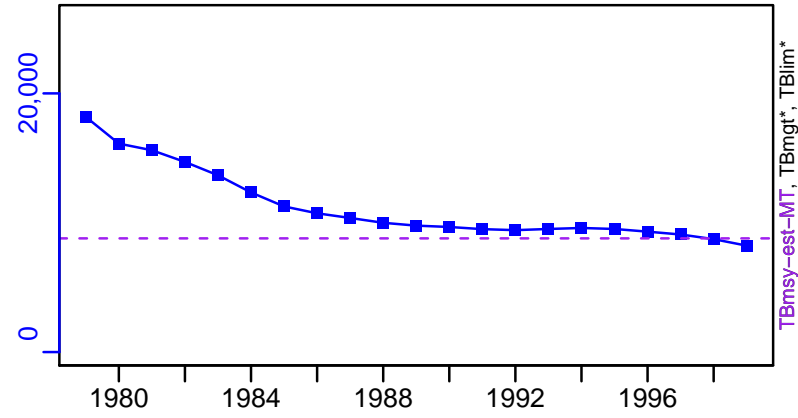


◆ Start Year ◆ End Year * No Data

Bank Rockfish California [BNKROCKCAL]

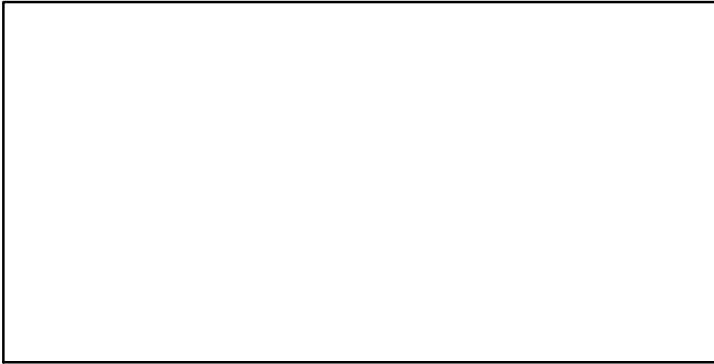
TB-MT (1979-1999-CHING)

SSB*



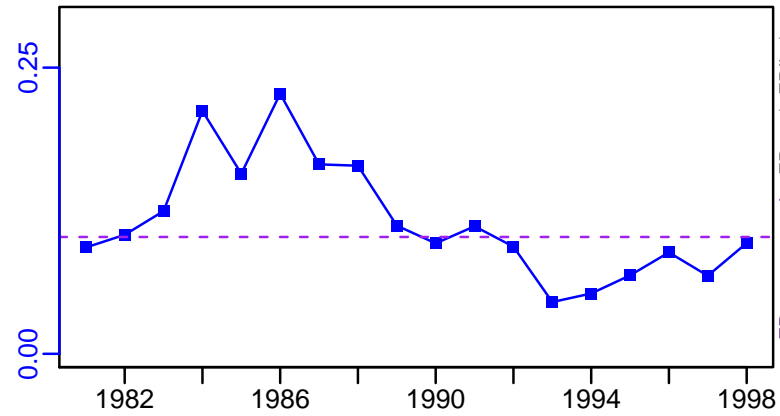
TN *

F*



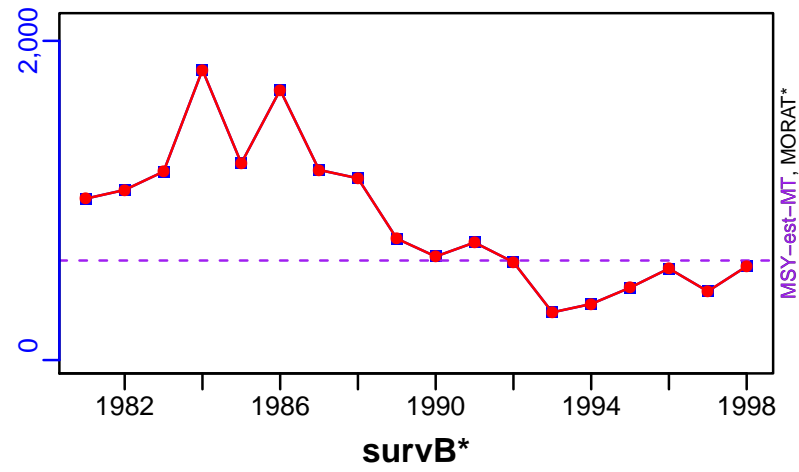
ER-ratio (1979-1999-CHING)

Recruits*



Bank Rockfish California [BNKROCKCAL]

TC-MT, TL-MT, RecC* (1979-1999-CHING)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Bocaccio Southern Pacific Coast [BOCACCSPCOAST]

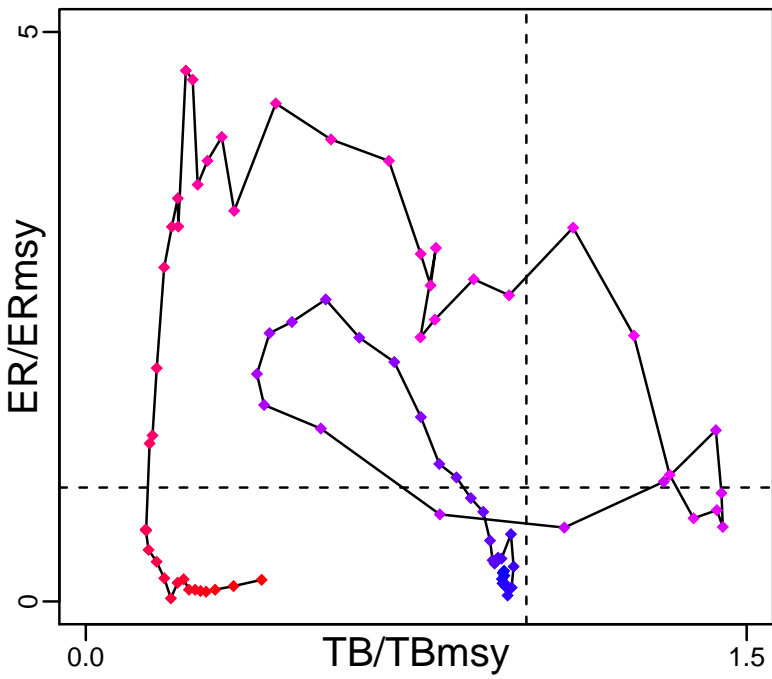
Metadata	
Scientific Name	Sebastes paucispinis
Current Assess ID	SWFSC-BOCACCSPCOAST-1935-2013-SISIMP2016
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2009, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	41,502
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2013	0.5
ERmsy	ERmsy-conv-ratio	2009	0.08
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2009	44,070
SSB0	-	-	-
MSY	MSY-MT	2013	1347
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2013	0.5
ERlim	-	-	-

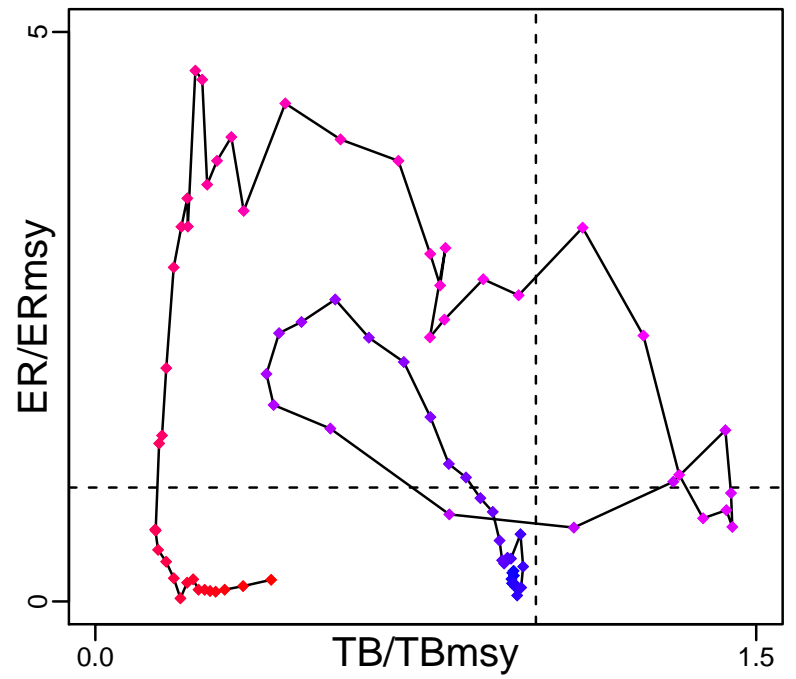
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	19,100	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2013	3,860,000	-	0
F	F-1/yr	2013	0	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	188		
TL	-	-	-		
TB/TBmsy	TB-MT/TB0-MT	2009	0.8		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.21		
ER/ERmsy	ER-ratio/ERmsy-conv-ratio	2009	0.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Bocaccio Southern Pacific Coast [BOCACCSPCOAST]

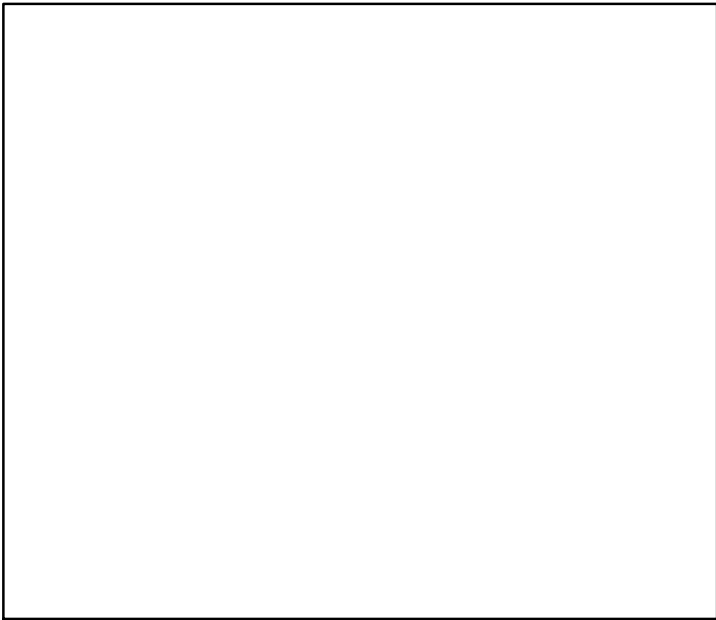
Kobe MSYpref (1935–2013–SISIMP2016)



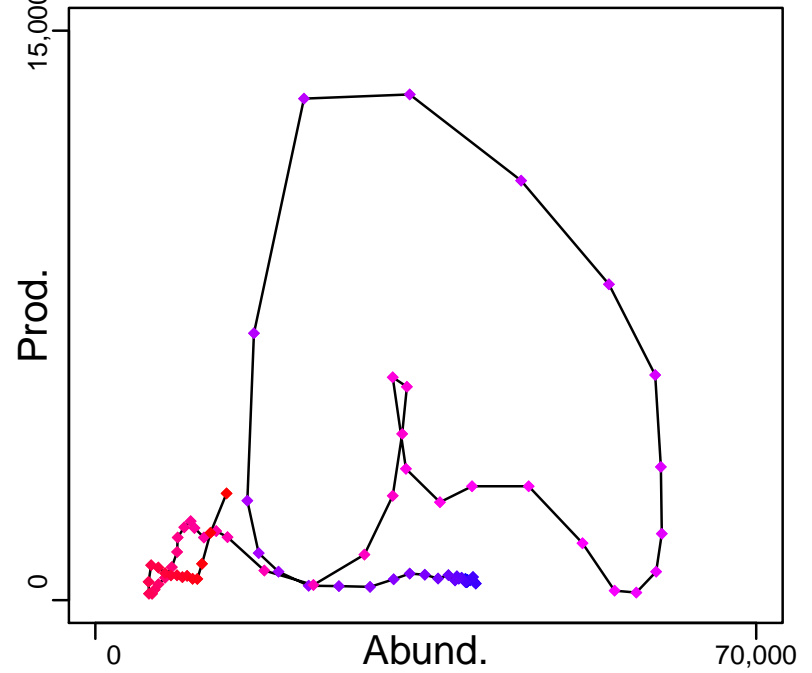
Kobe MGTpref (1935–2013–SISIMP2016)



Spawner Recruit*



Production (1935–2013–SISIMP2016)

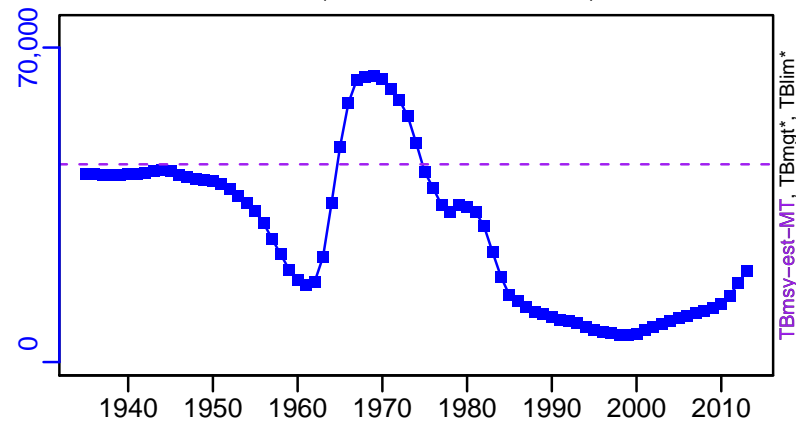


◆ Start Year ◆ End Year * No Data

Bocaccio Southern Pacific Coast [BOCACCSPCOAST]

TB-MT (1935–2013–SISIMP2016)

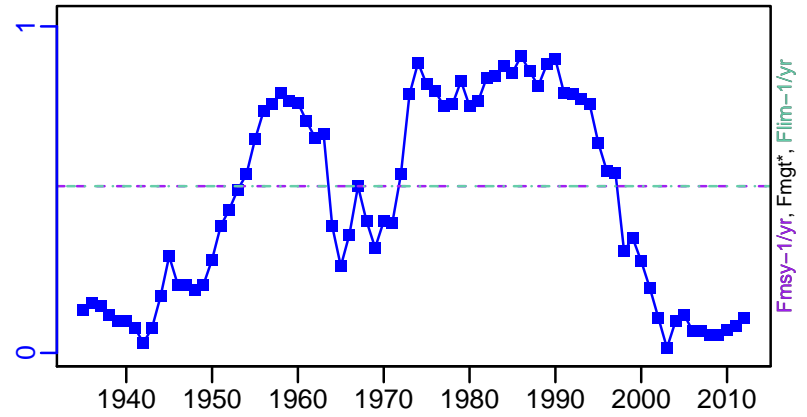
SSB*



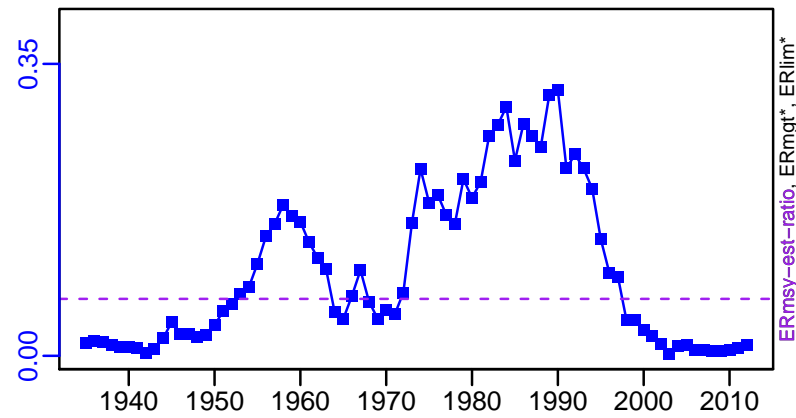
TN *



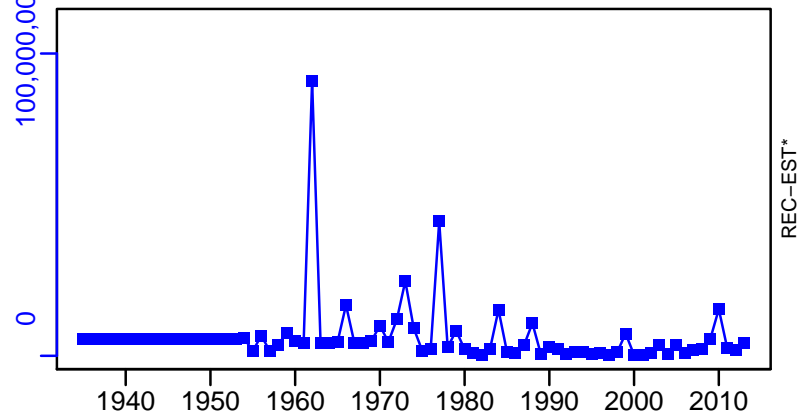
F-1/yr (1935–2013–SISIMP2016)



ER-calc-ratio (1935–2013–SISIMP2016)



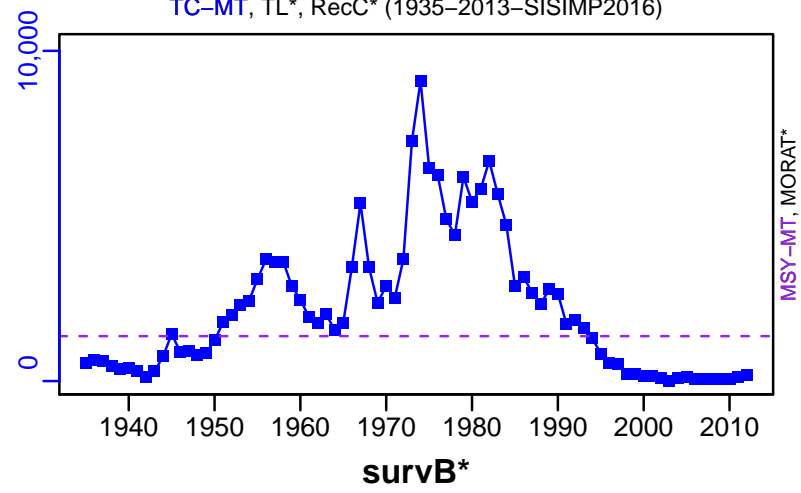
R-E00 (1935–2013–SISIMP2016)



Bocaccio Southern Pacific Coast [BOCACCSPCOAST]

TC-MT, TL*, RecC* (1935-2013-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Brown rockfish Pacific Coast [BRNROCKPCOAST]

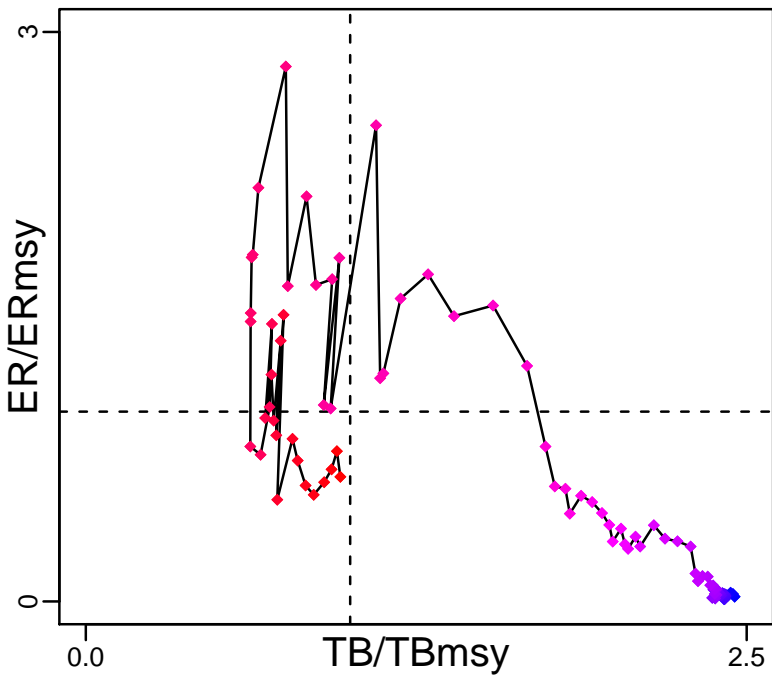
Metadata	
Scientific Name	Sebastes auriculatus
Current Assess ID	SWFSC-BRNROCKPCOAST-1916-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	1455
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2012	0.1
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	150
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2012	0.1

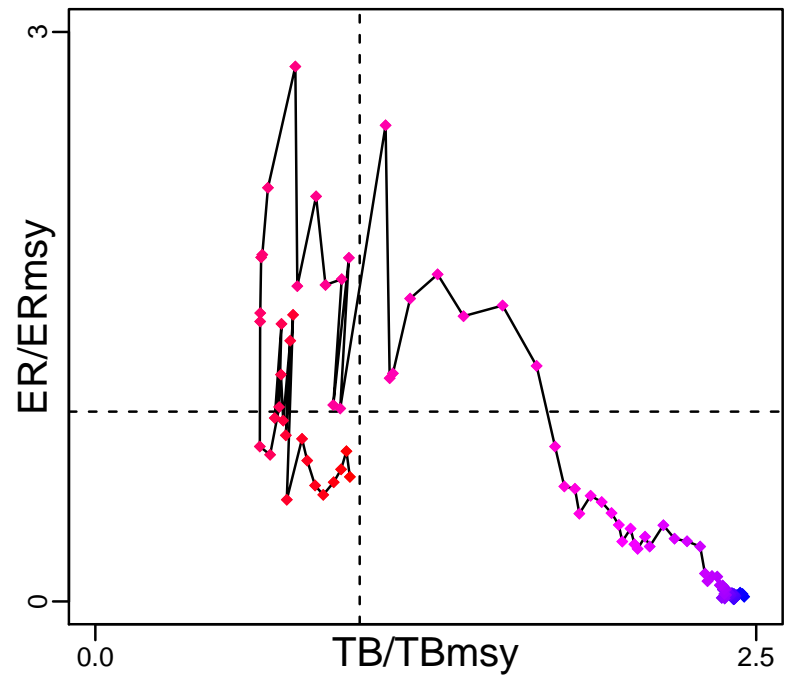
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	1450	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0	-	-
TC	TC-MT	2012	94.7	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.99	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.66	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Brown rockfish Pacific Coast [BRNROCKPCOAST]

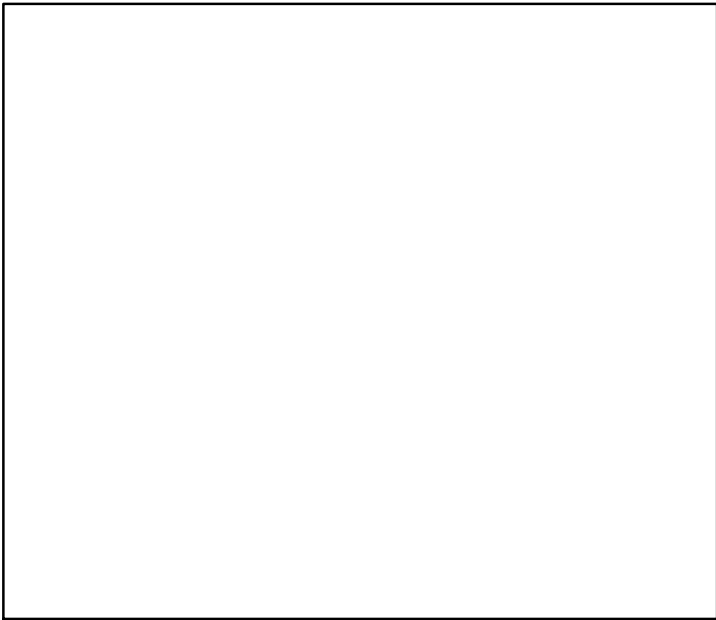
Kobe **MSY**pref (1916–2012–SISIMP2016)



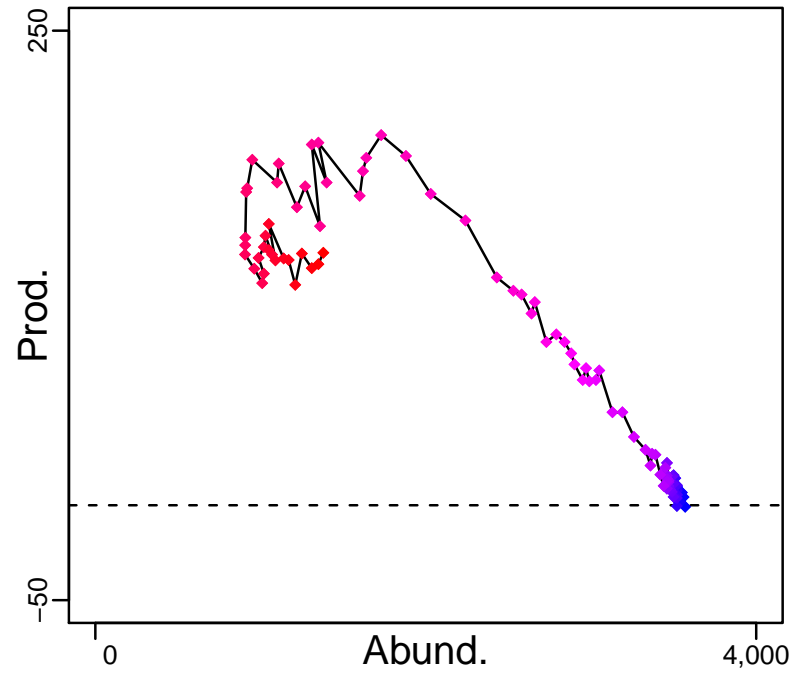
Kobe **MGTPref** (1916–2012–SISIMP2016)



Spawner Recruit*



Production (1916–2012–SISIMP2016)

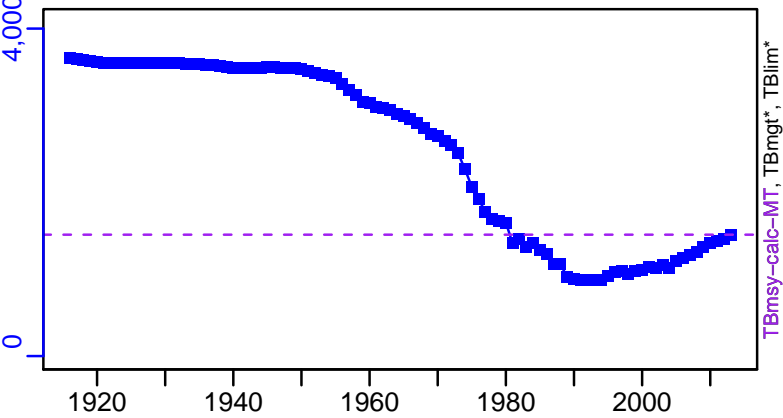


◆ Start Year ◆ End Year * No Data

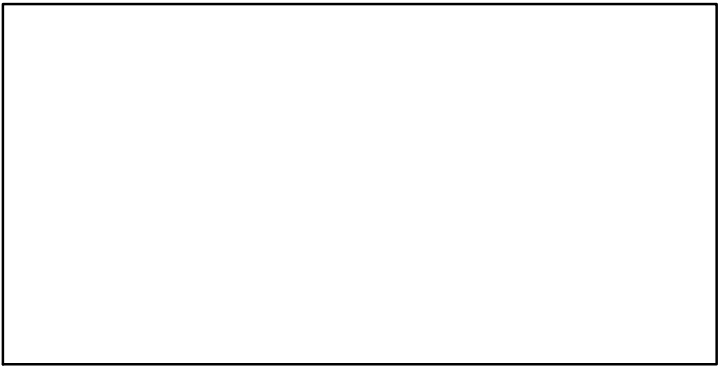
Brown rockfish Pacific Coast [BRNROCKPCOAST]

TB-MT (1916-2012-SISIMP2016)

SSB*

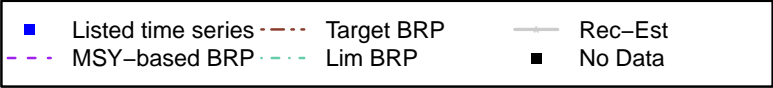
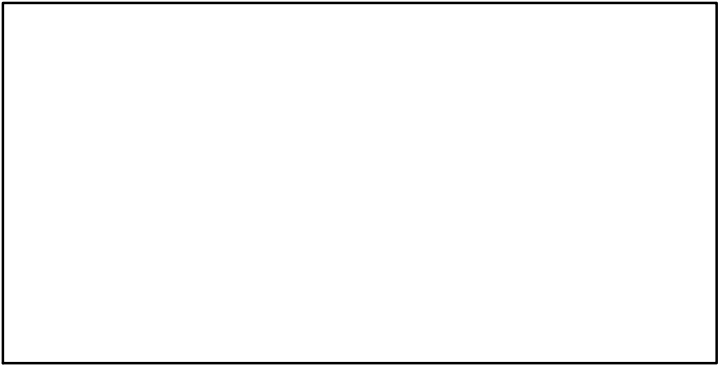
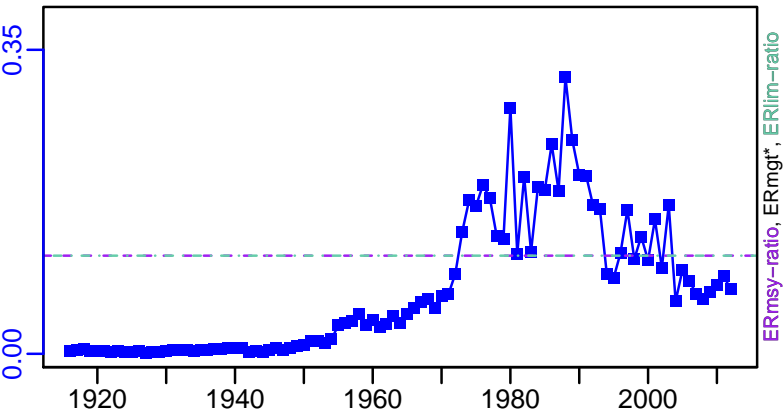


F*



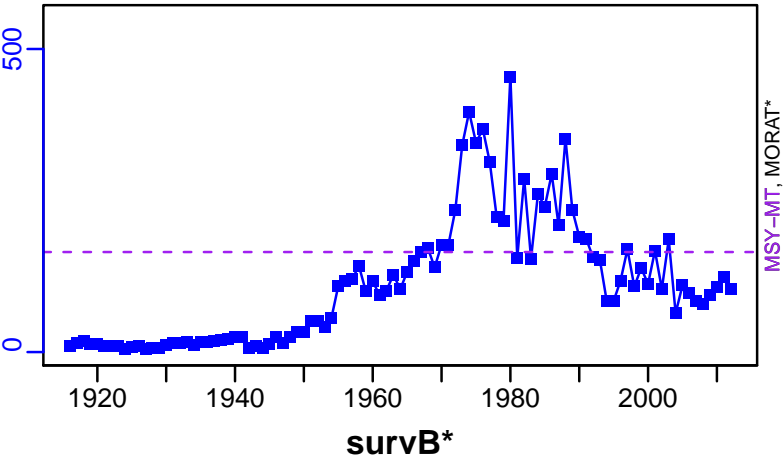
ER-ratio (1916-2012-SISIMP2016)

Recruits*



Brown rockfish Pacific Coast [BRNROCKPCOAST]

TC-MT, TL*, RecC* (1916-2012-SISIMP2016)



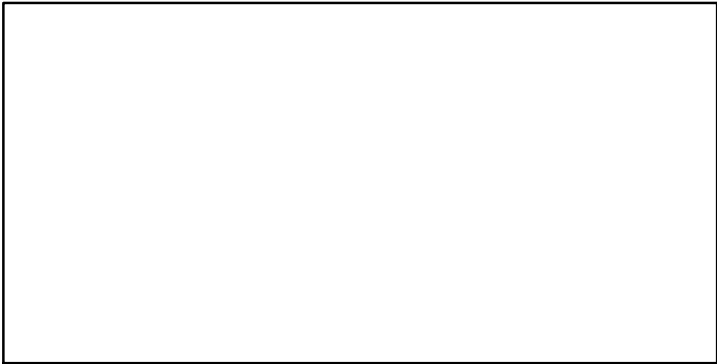
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Cabezon Northern California [CABEZNCAL]

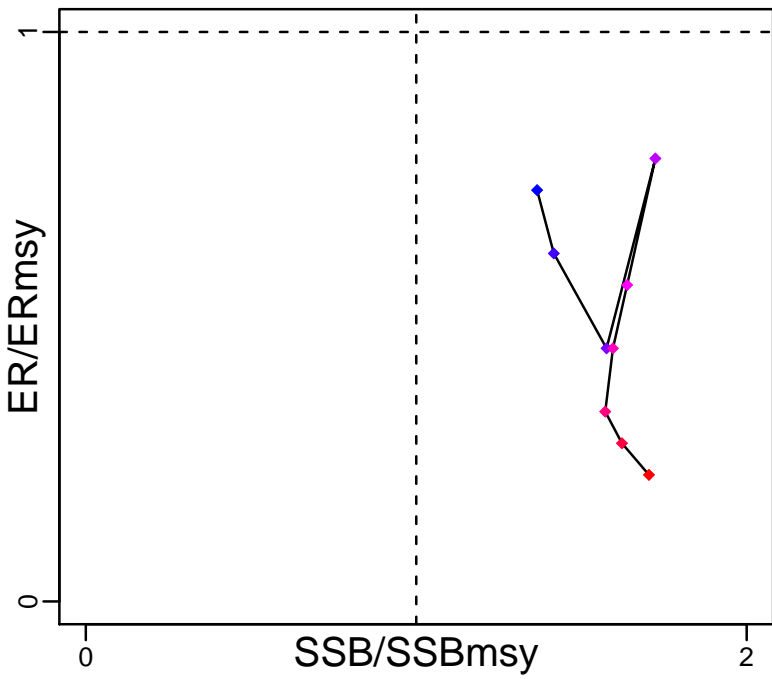
Metadata	
Scientific Name	Scorpaenichthys marmoratus
Current Assess ID	PFMC-CABEZNCAL-1930-2009-CHING
Area	Northern California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

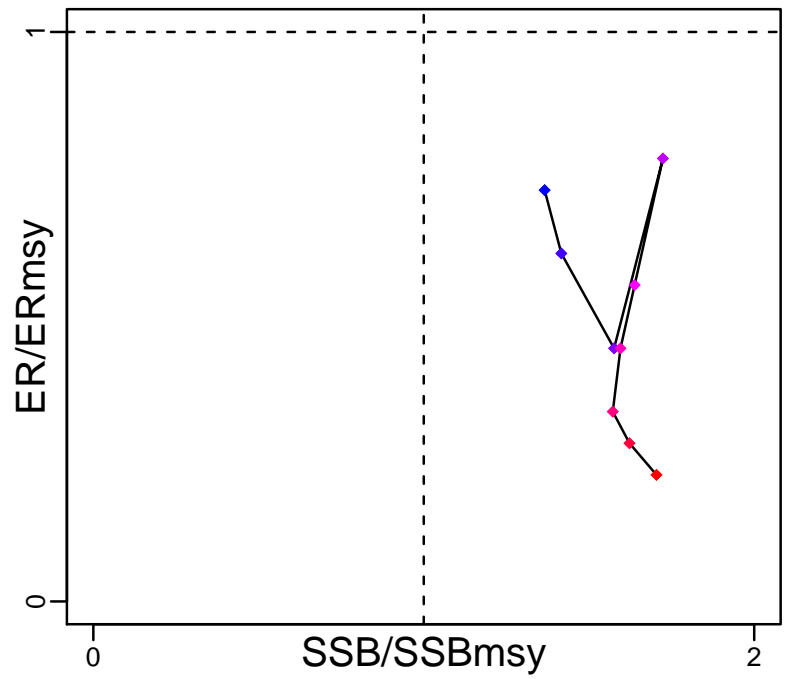
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	483	Both	2+
SSB	SSB-MT	2009	469	Females	3+
TN	-	-	-	-	-
R	R-E00	2009	776	-	-
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	39		
TL	TL-MT	2009	19.8		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.82		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cabazon Northern California [CABEZNCAL]

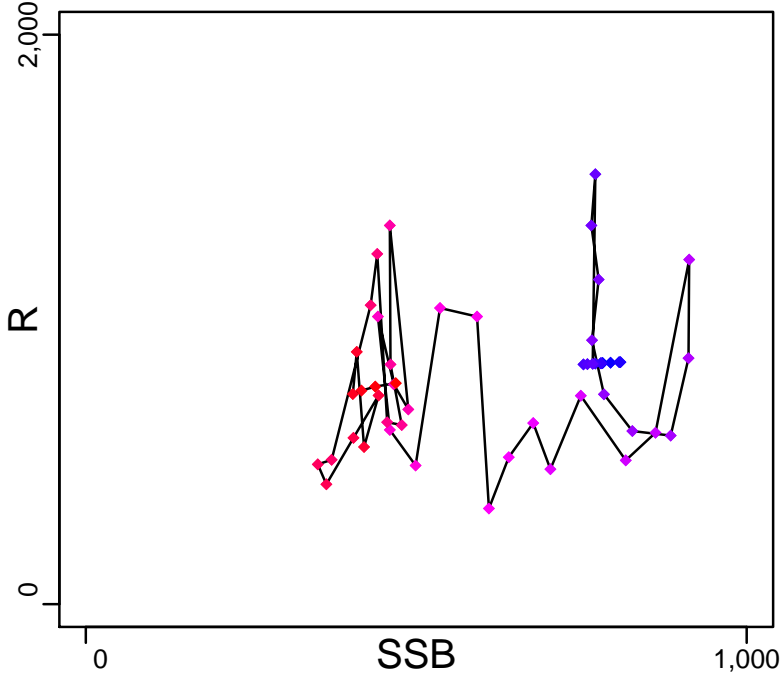
Kobe MSYpref (1930–2009–CHING)



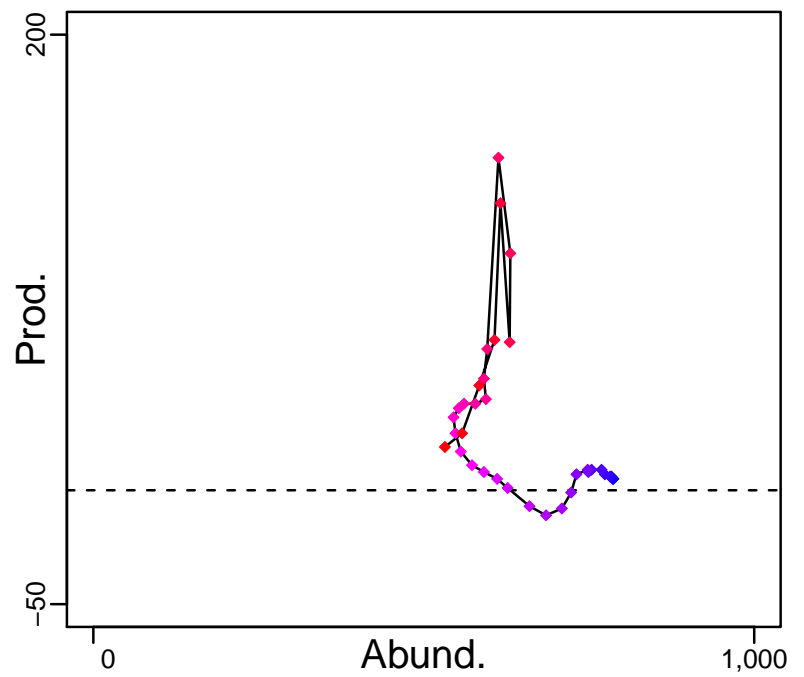
Kobe MGTpref (1930–2009–CHING)



Spawner Recruit (1930–2009–CHING)



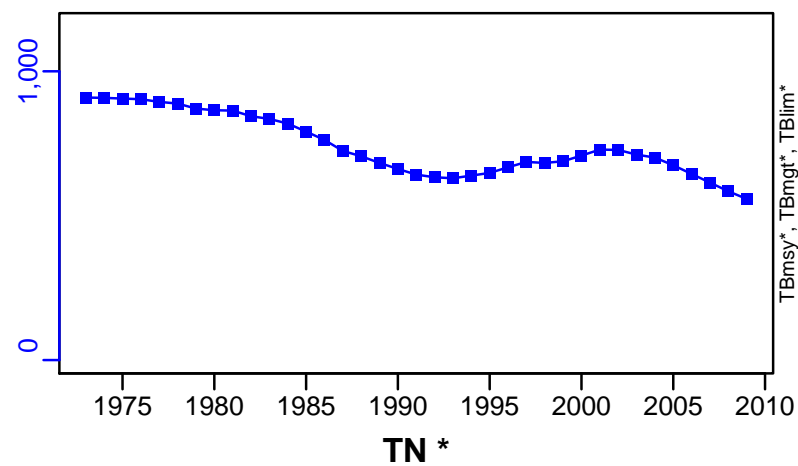
Production (1930–2009–CHING)



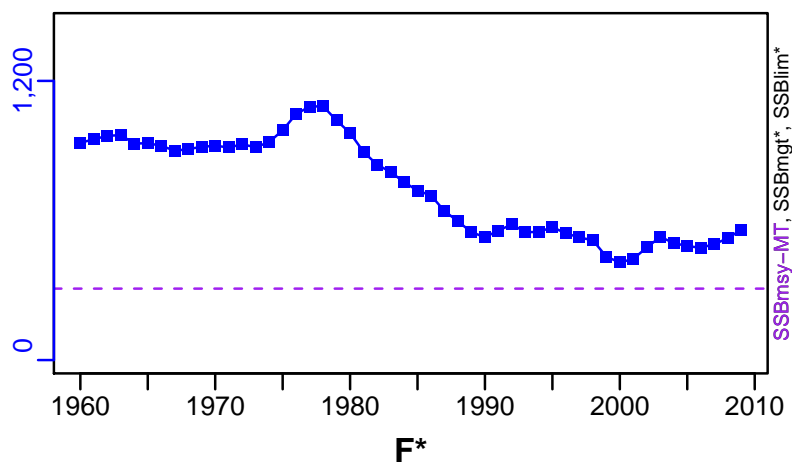
◆ Start Year ◆ End Year * No Data

Cabazon Northern California [CABEZNCAL]

TB-MT (1930-2009-CHING)



SSB-MT (1930-2009-CHING)

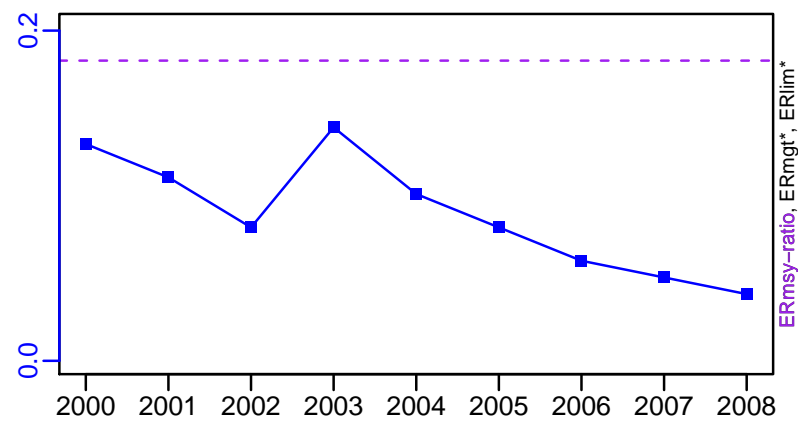


TN *

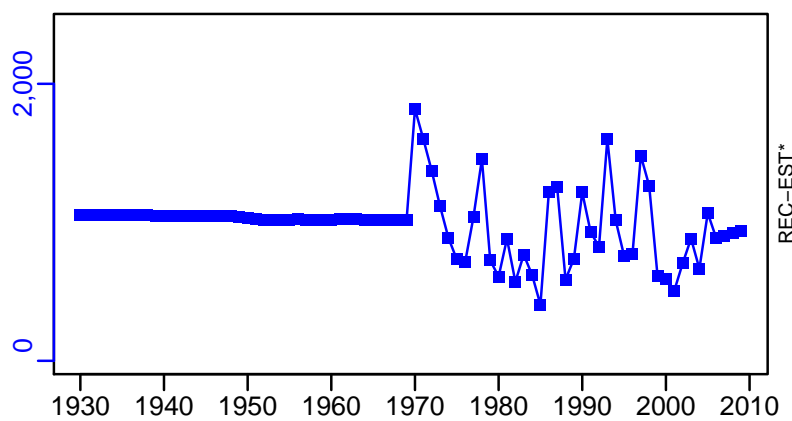
F*



ER-ratio (1930-2009-CHING)



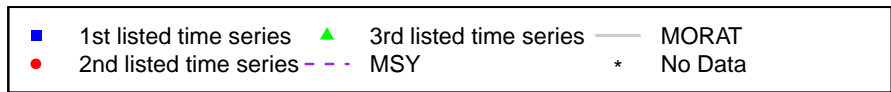
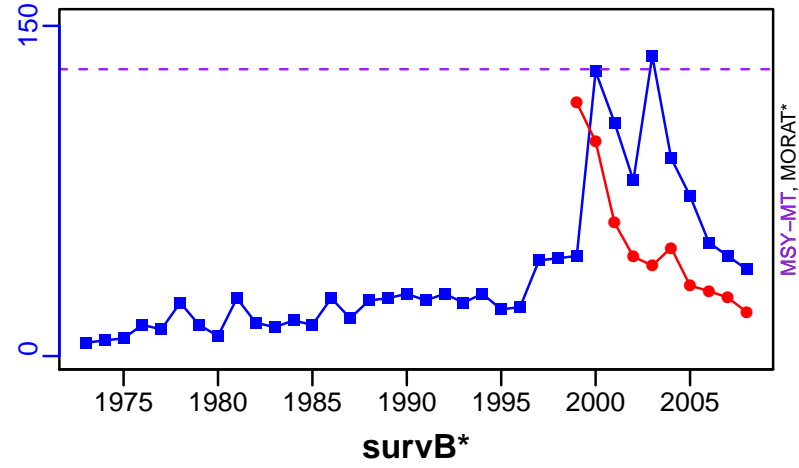
R-E00 (1930-2009-CHING)



Cabazon Northern California [CABEZNCAL]

TC-MT, TL-MT, RecC* (1930-2009-CHING)

TAC*, Cpair*, Cadv*



Cabezon Oregon Coast [CABEZORECOAST]

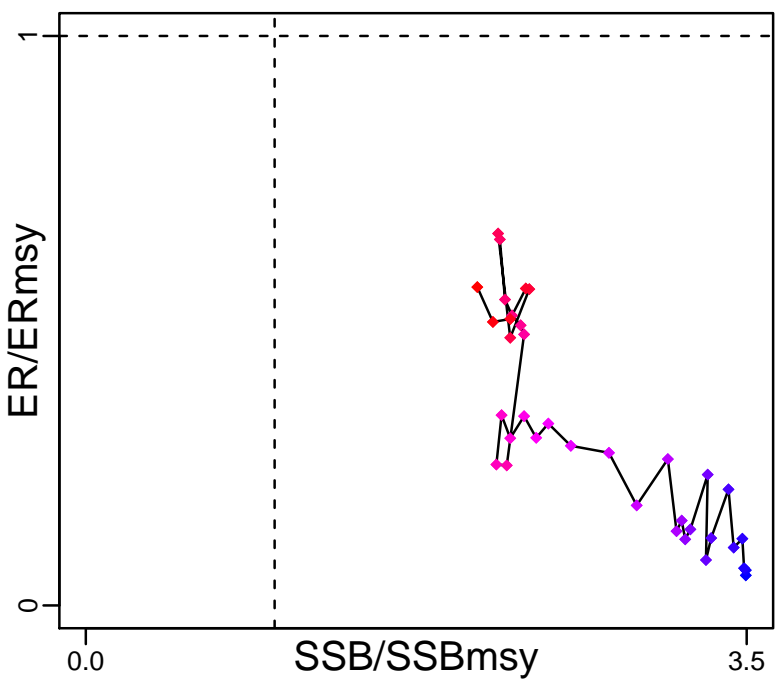
Metadata	
Scientific Name	Scorpaenichthys marmoratus
Current Assess ID	NWFSC-CABEZORECOAST-1973-2009-STACHURA
Area	Oregon Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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	-	-	-

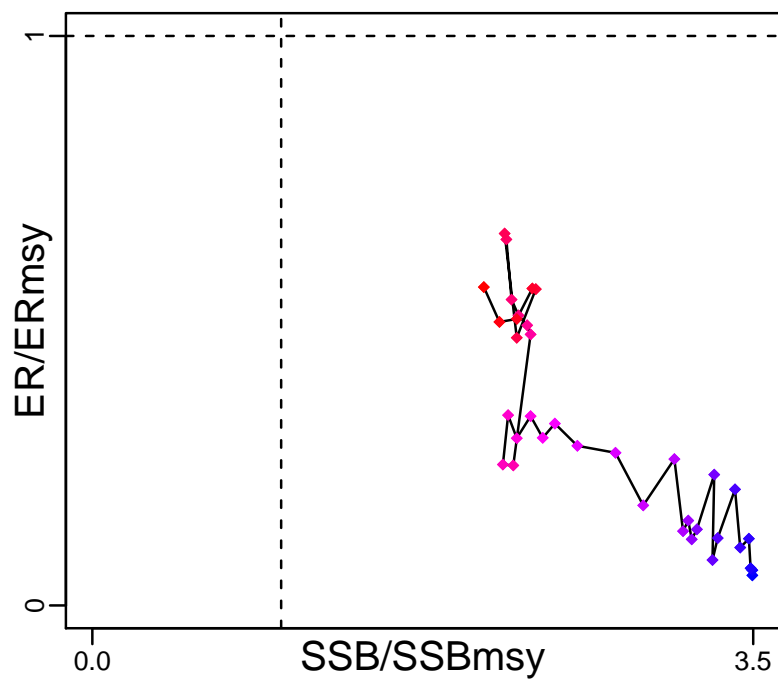
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	455	-	2+
SSB	SSB-MT	2009	214	Females	3.86
TN	-	-	-	-	-
R	R-E00	2009	178,000	-	0
F	F-1/yr	2009	1	-	-
ER	ER-calc-ratio	2009	0	-	-
TC	TC-MT	2009	43.2		
TL	TL-MT	2009	43.2		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.96		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2009	0.56		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cabezon Oregon Coast [CABEZORECOAST]

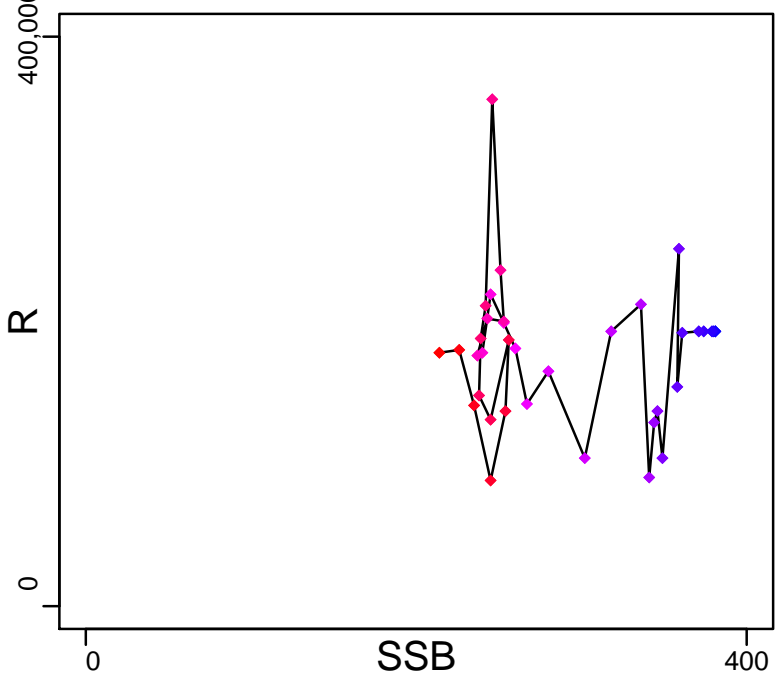
Kobe MSYpref (1973–2009–STACHURA)



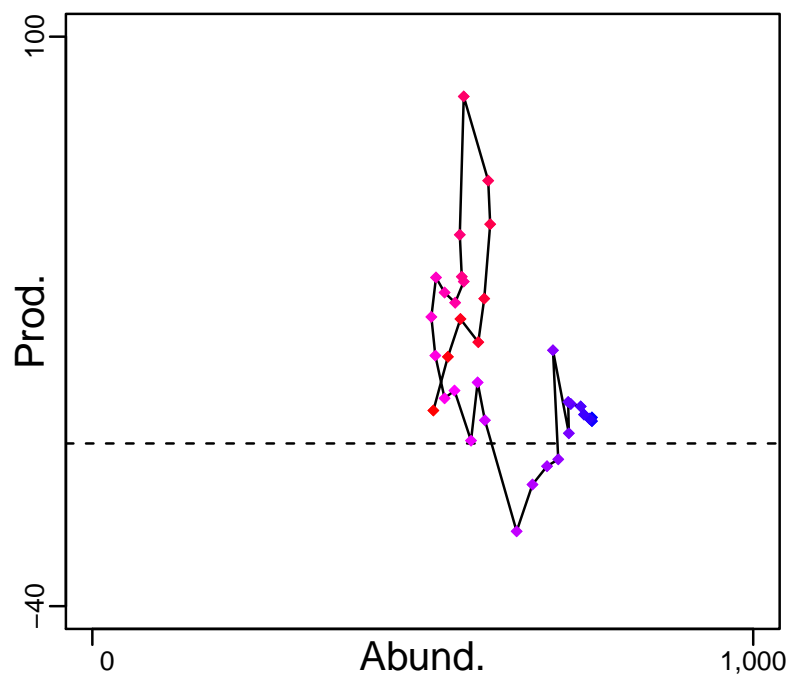
Kobe MGTpref (1973–2009–STACHURA)



Spawner Recruit (1973–2009–STACHURA)



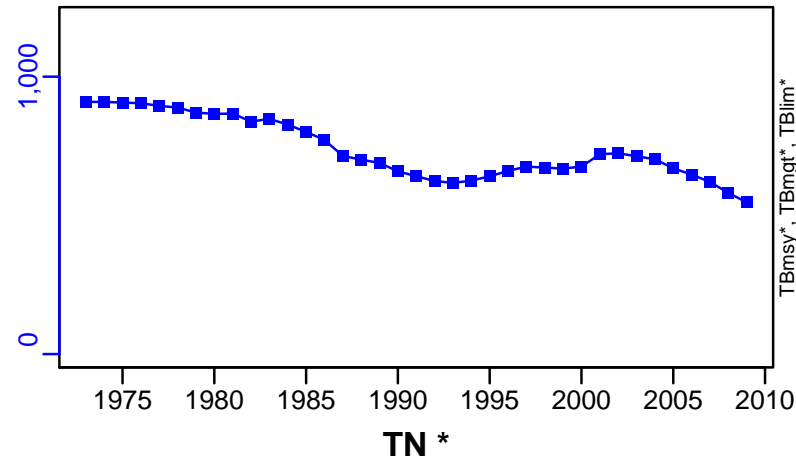
Production (1973–2009–STACHURA)



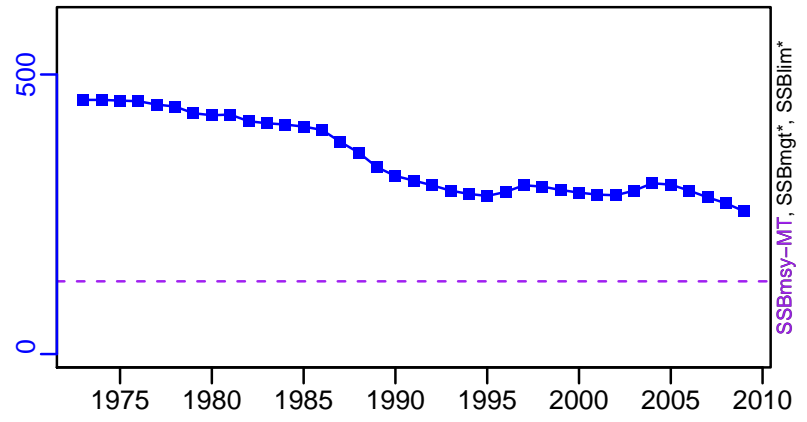
◆ Start Year ◆ End Year * No Data

Cabazon Oregon Coast [CABEZORECOAST]

TB-MT (1973-2009-STACHURA)



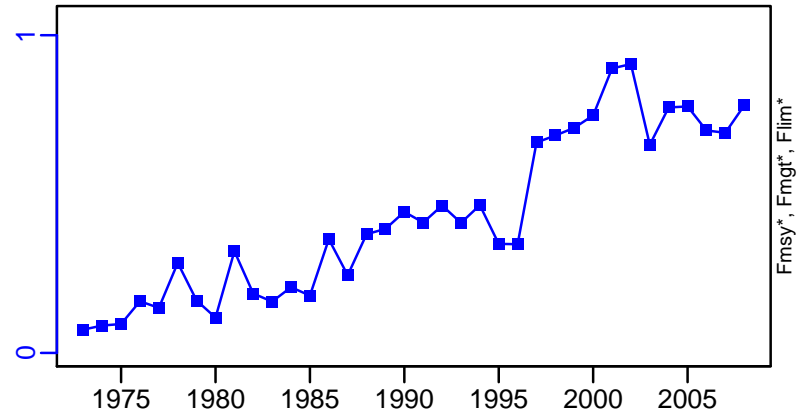
SSB-MT (1973-2009-STACHURA)



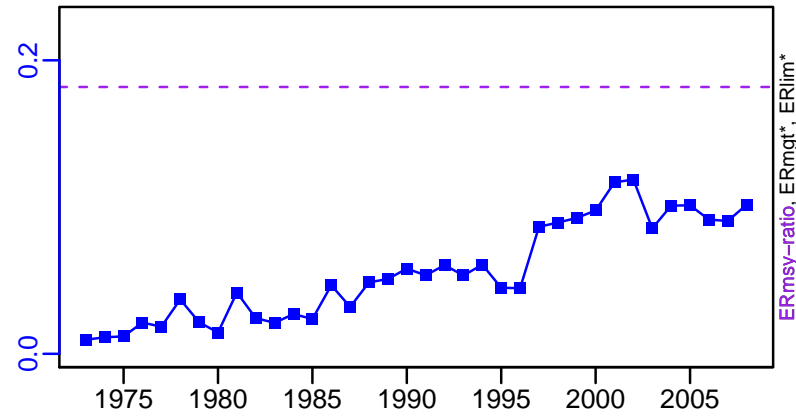
TN *



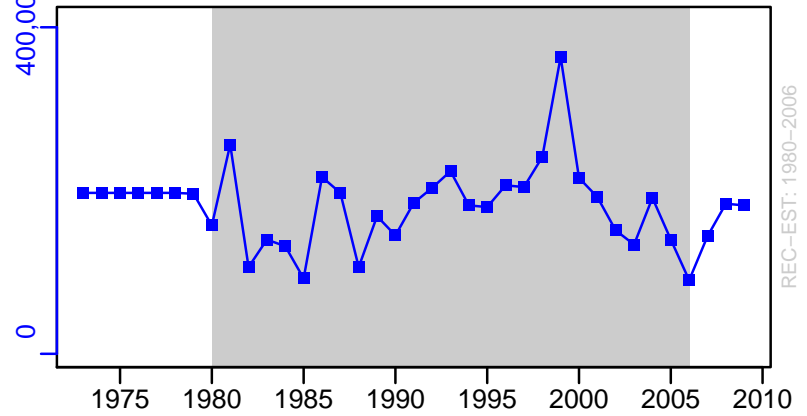
F-1/yr (1973-2009-STACHURA)



ER-calc-ratio (1973-2009-STACHURA)

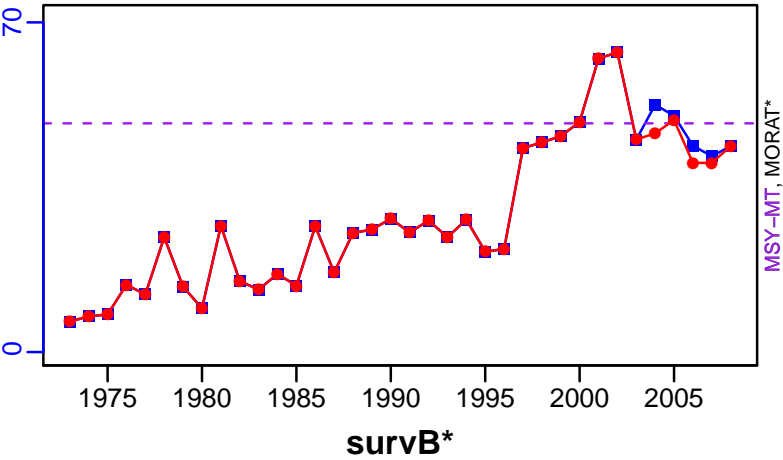


R-E00 (1973-2009-STACHURA)



Cabezon Oregon Coast [CABEZORECOAST]

TC-MT, TL-MT, RecC* (1973-2009-STACHURA)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Cabezon Southern California [CABEZSCAL]

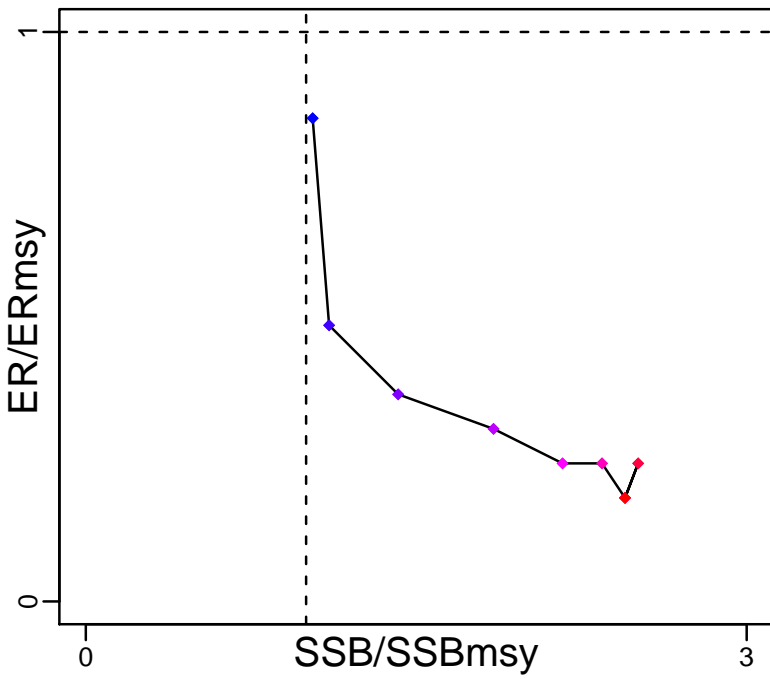
Metadata	
Scientific Name	Scorpaenichthys marmoratus
Current Assess ID	PFMC-CABEZSCAL-1930-2009-CHING
Area	Southern California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2009	67
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2009	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2009	470
SSB0	SSB0-MT	2009	263
MSY	MSY-MT	2009	30
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

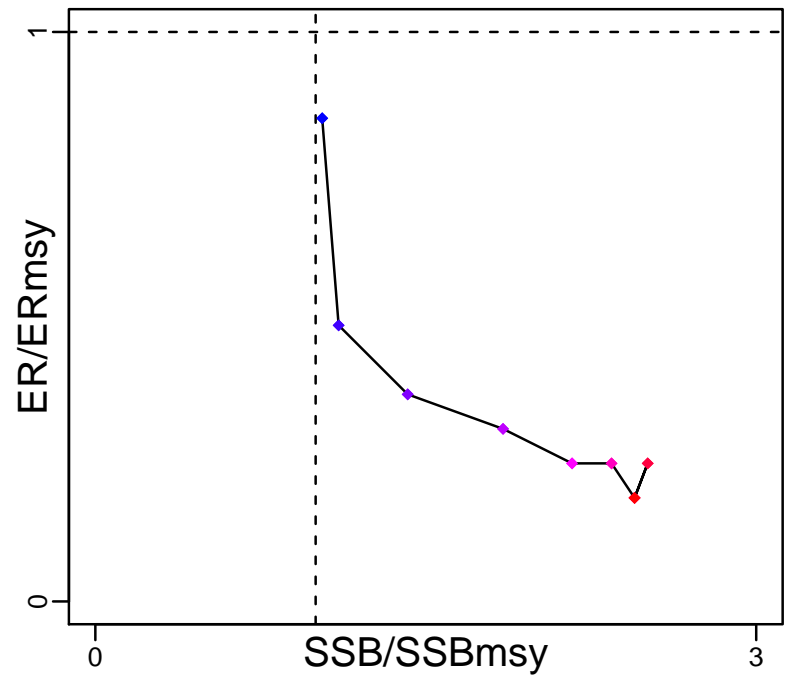
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	789	Both	2+
SSB	SSB-MT	2009	158	Females	3+
TN	-	-	-	-	-
R	R-E00	2009	192	-	-
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	10		
TL	TL-MT	2009	3.9		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	2.36		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cabazon Southern California [CABEZSCAL]

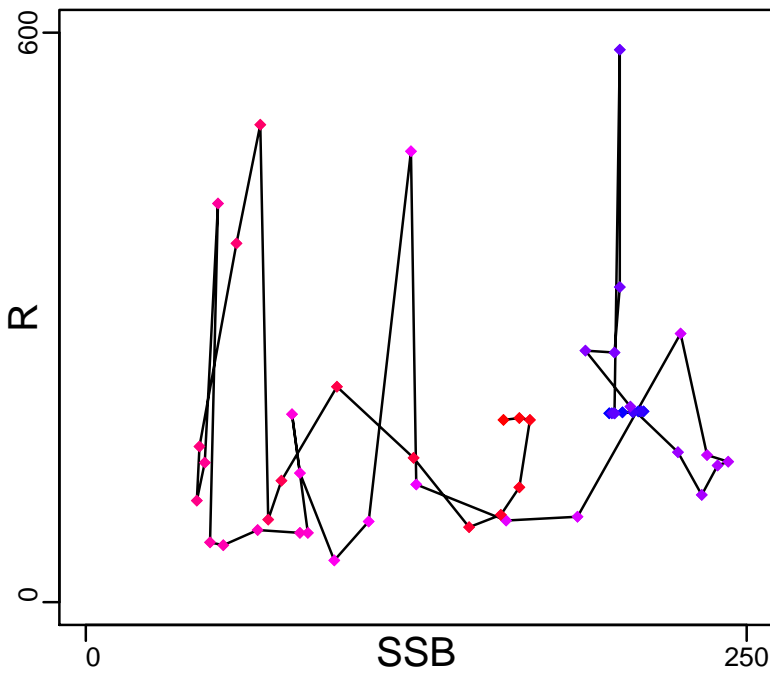
Kobe MSYpref (1930–2009–CHING)



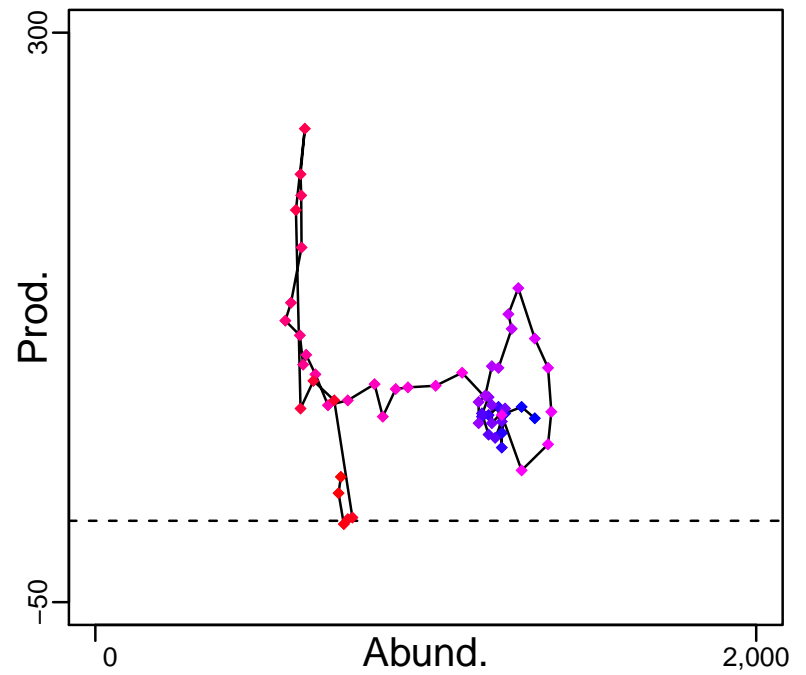
Kobe MGTpref (1930–2009–CHING)



Spawner Recruit (1930–2009–CHING)



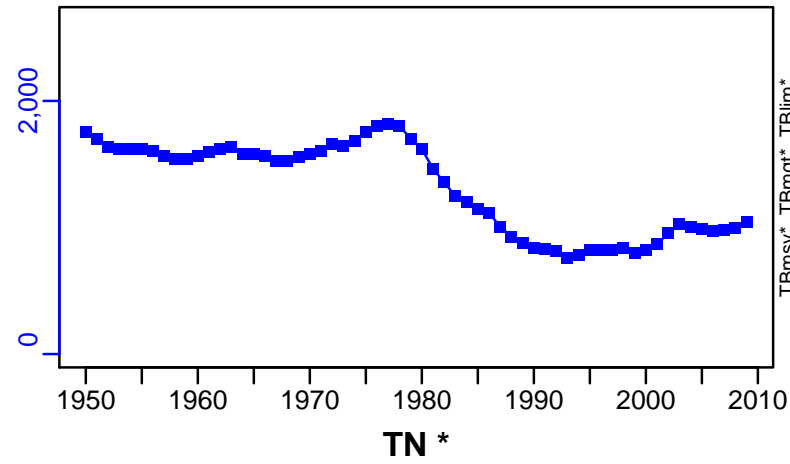
Production (1930–2009–CHING)



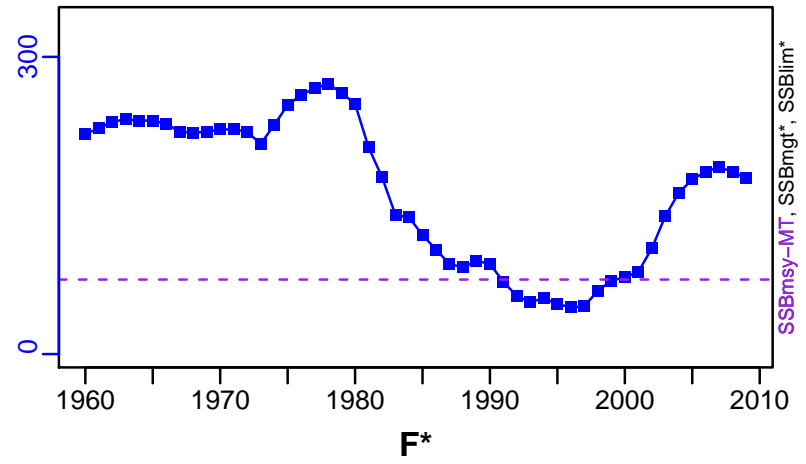
◆ Start Year ◆ End Year * No Data

Cabazon Southern California [CABEZSCAL]

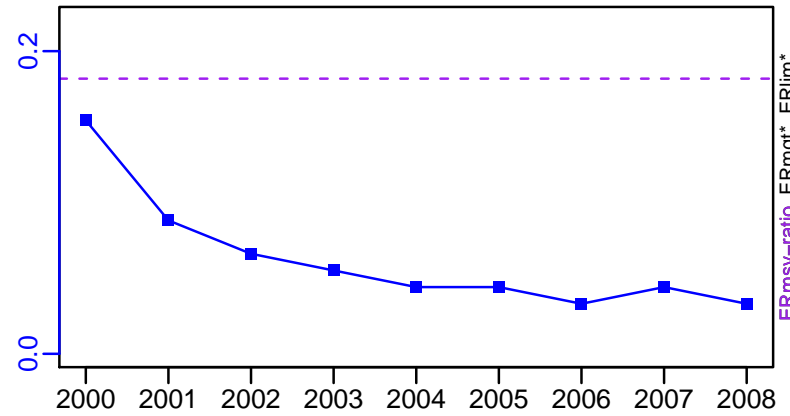
TB-MT (1930-2009-CHING)



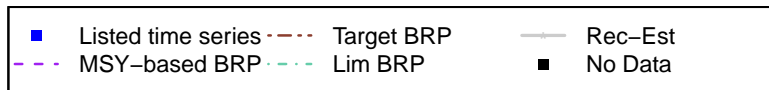
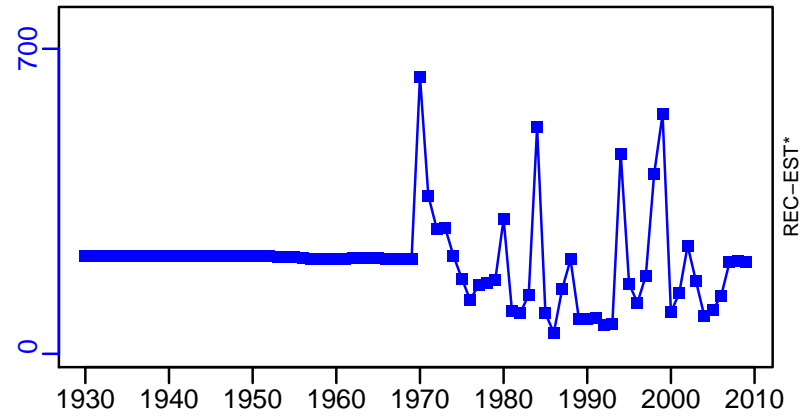
SSB-MT (1930-2009-CHING)



ER-ratio (1930-2009-CHING)



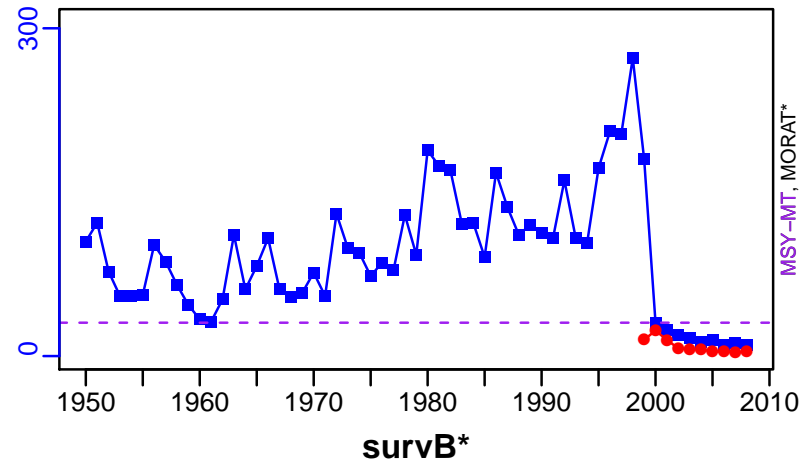
R-E00 (1930-2009-CHING)



Cabezon Southern California [CABEZSCAL]

TC-MT, TL-MT, RecC* (1930-2009-CHING)

TAC*, Cpair*, Cadv*



EFFORT*



California scorpionfish Southern California [CALSCORPSCAL]

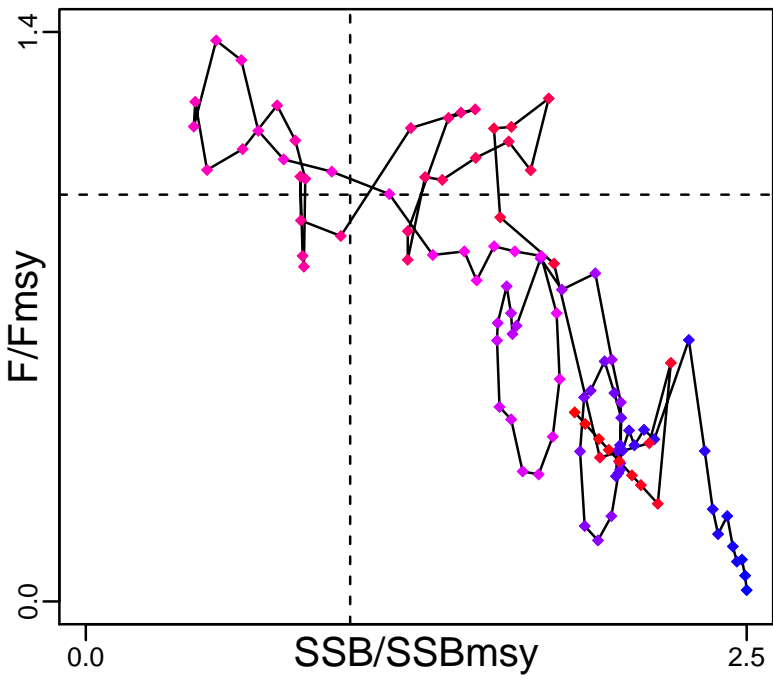
Metadata	
Scientific Name	Scorpaena guttata
Current Assess ID	SWFSC-CALSCORPSCAL-1914-2015-SISIMP2016
Area	Southern California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2015, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	392
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-ratio	2005	0.16
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	-	-	-

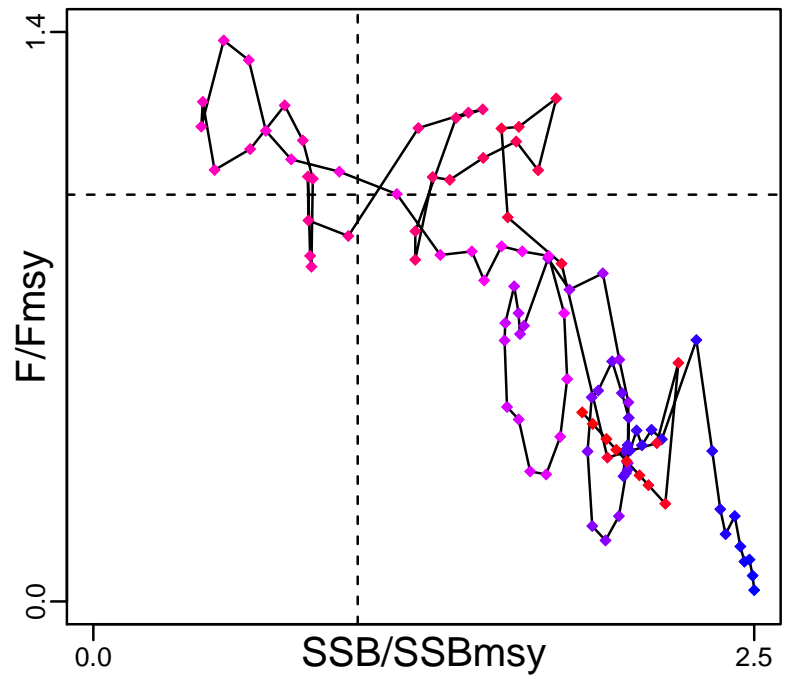
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1550	-	2+
SSB	SSB-MT	2015	708	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1900	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	124		
TL	TL-MT	2005	81		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.81		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.46		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.44		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

California scorpionfish Southern California [CALSCORPSCAL]

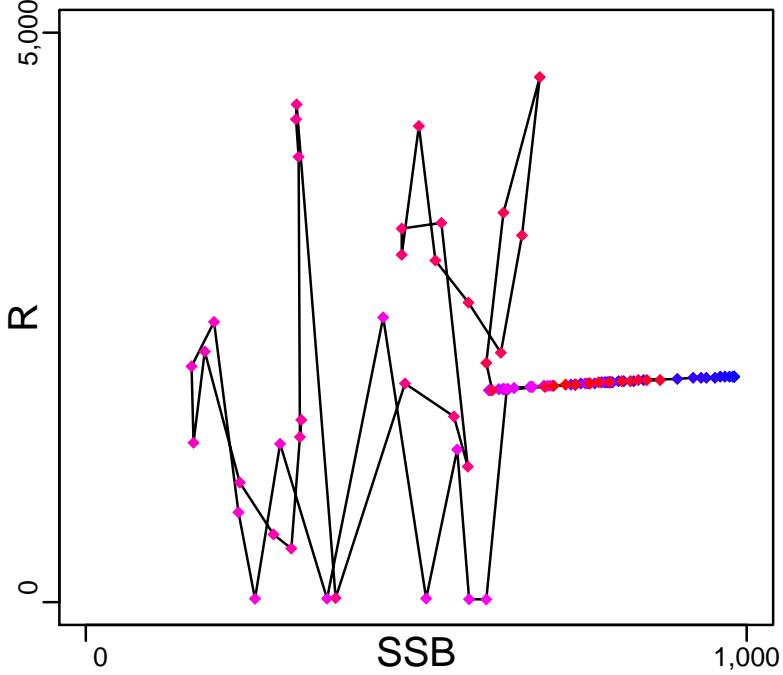
Kobe MSYpref (1914–2015–SISIMP2016)



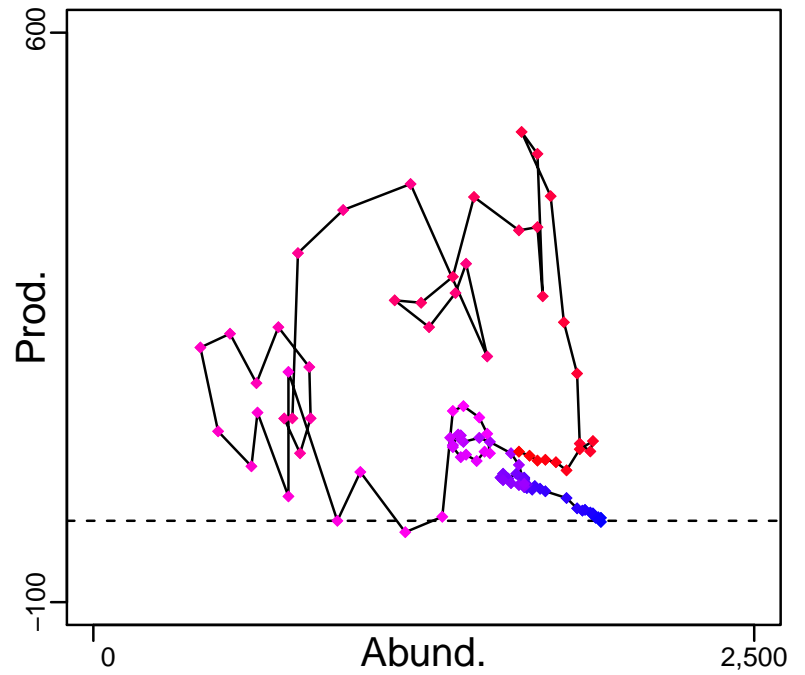
Kobe MGTpref (1914–2015–SISIMP2016)



Spawner Recruit (1914–2015–SISIMP2016)



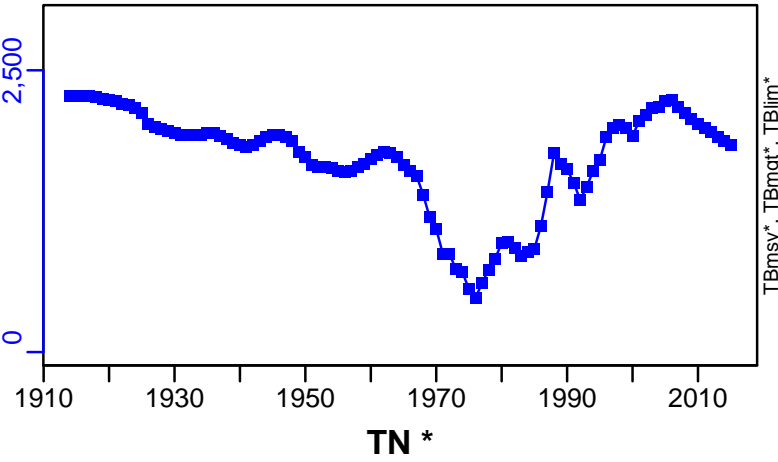
Production (1914–2015–SISIMP2016)



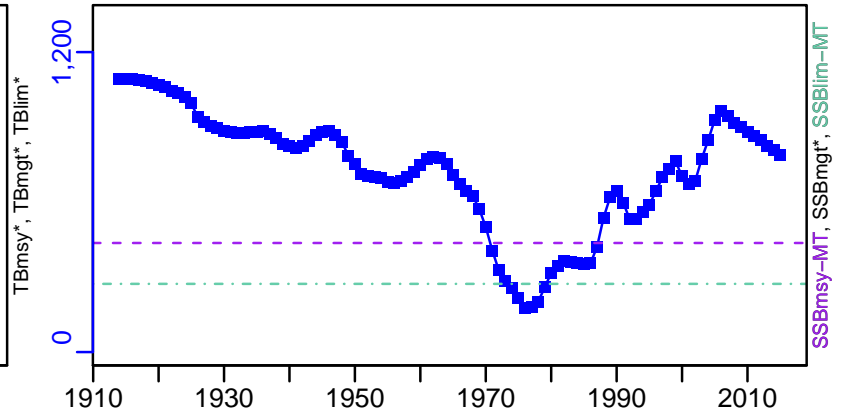
◆ Start Year ◆ End Year * No Data

California scorpionfish Southern California [CALSCORPSCAL]

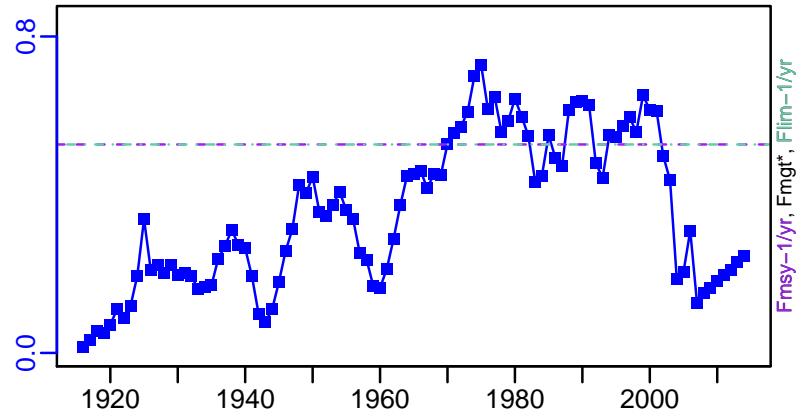
TB-MT (1914–2015–SISIMP2016)



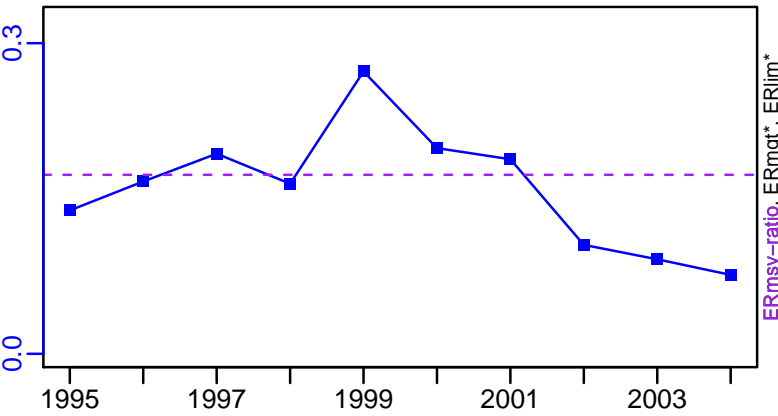
SSB-MT (1914–2015–SISIMP2016)



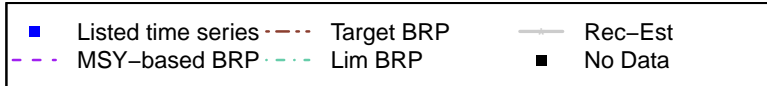
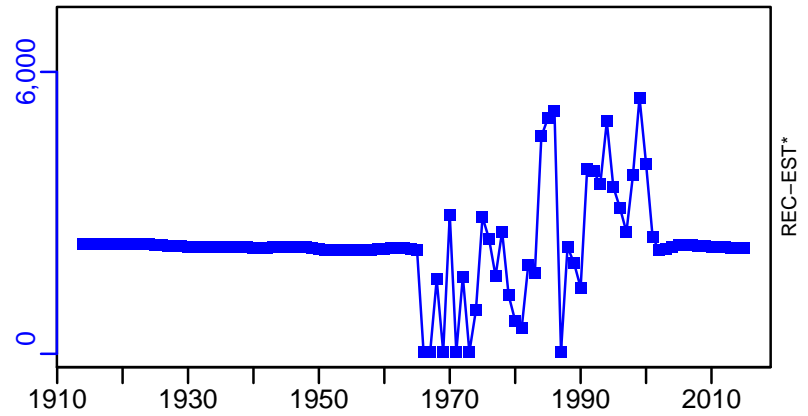
F-1/yr (1914–2015–SISIMP2016)



ER-ratio (1990–2005–STANTON)



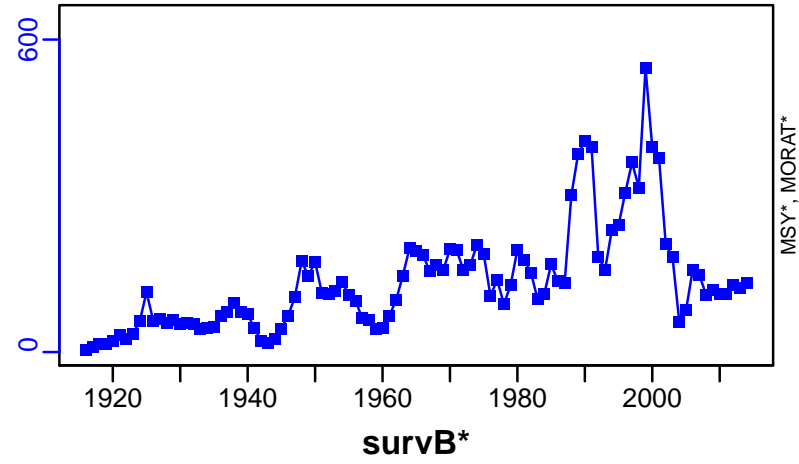
R-E00 (1914–2015–SISIMP2016)



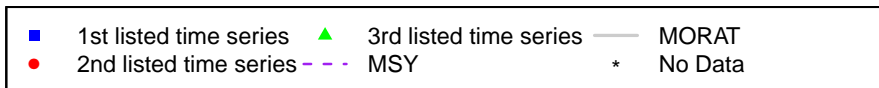
California scorpionfish Southern California [CALSCORPSCAL]

TC-MT, TL*, RecC* (1914-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Chilipepper Southern Pacific Coast [CHILISPCOAST]

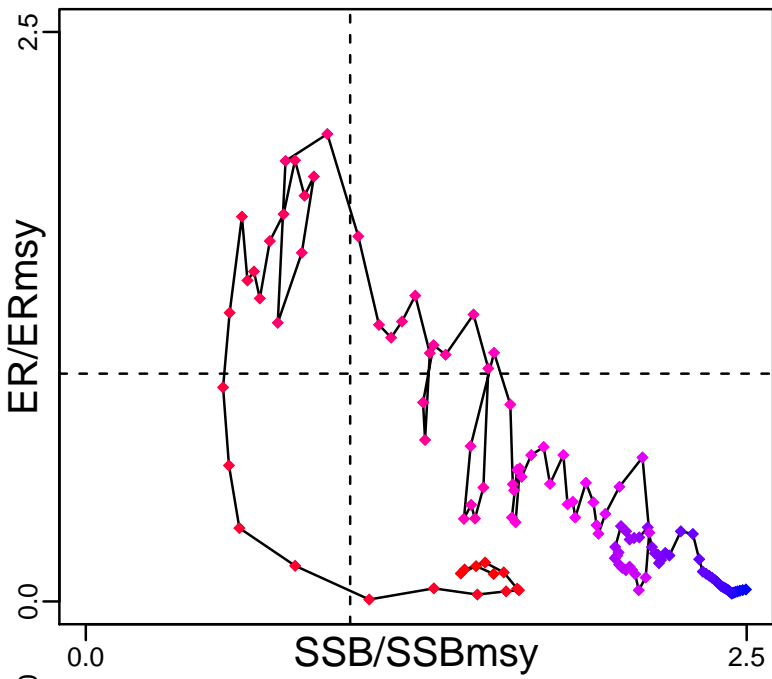
Metadata	
Scientific Name	Sebastes goodei
Current Assess ID	SWFSC-CHILISPCOAST-1892-2015-SISIMP2016
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2007, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	25,083
SSBmsy	SSBmsy-E00larvae	2015	2.82×10^9
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-ratio	2007	0.11
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	1.76×10^9
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

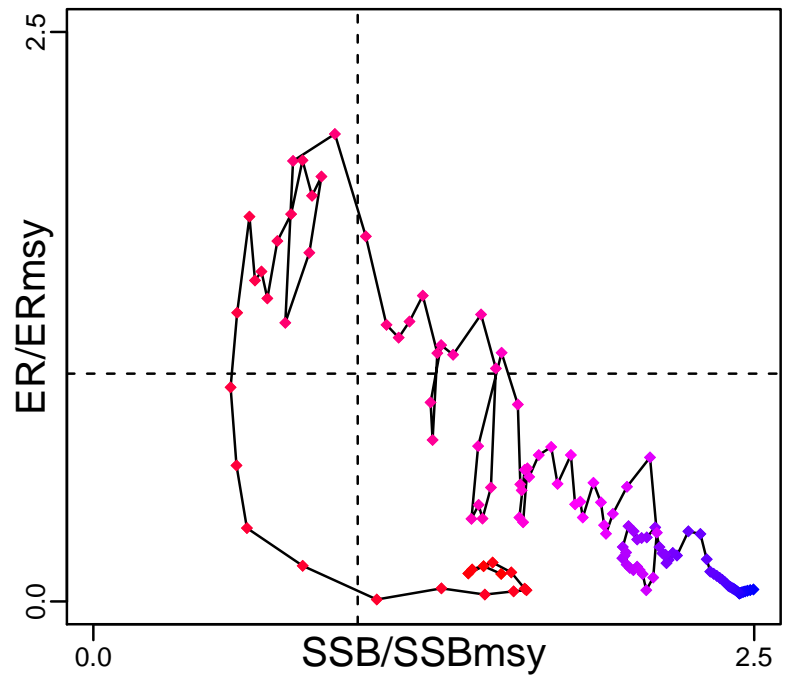
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	36,700	-	2+
SSB	SSB-E00larvae	2015	4.5×10^9	Females	-
TN	-	-	-	-	-
R	R-E00	2015	37,700,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	325		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.46		
SSB/SSBmsy	SSB-E00larvae/SSBmsy-E00larvae	2015	1.6		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.18		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.03		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Chilipepper Southern Pacific Coast [CHILISPCOAST]

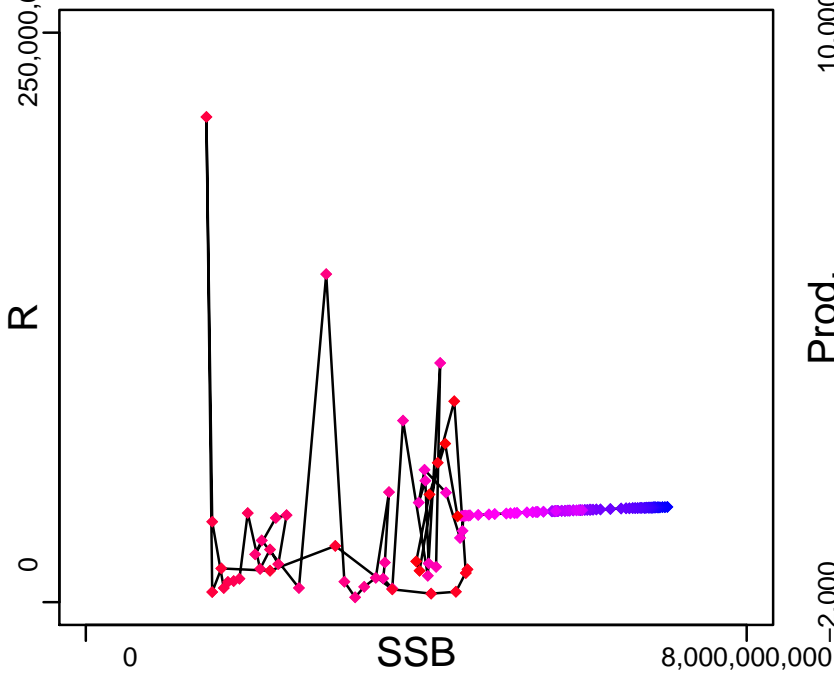
Kobe MSYpref (1892–2015–SISIMP2016)



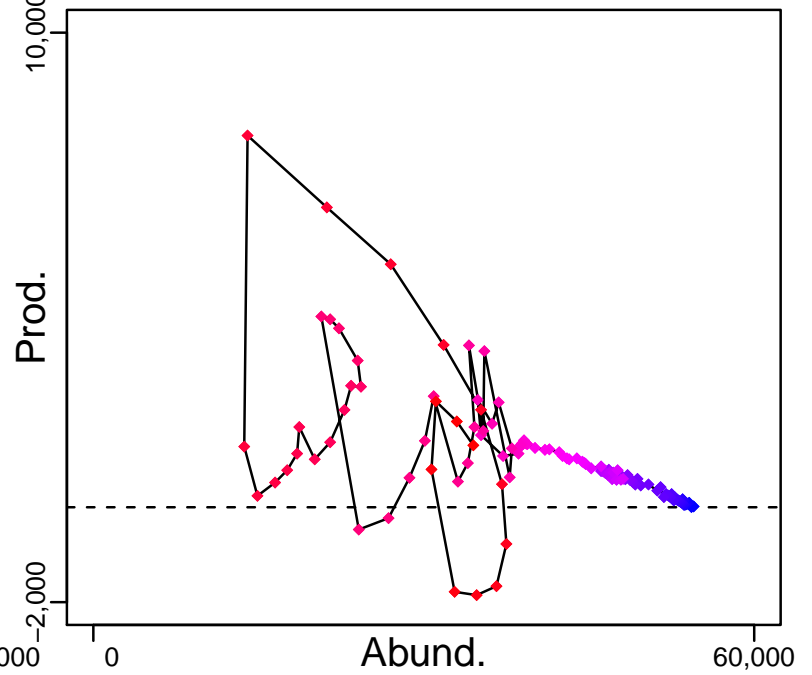
Kobe MGTpref (1892–2015–SISIMP2016)



Spawner Recruit (1892–2015–SISIMP2016)

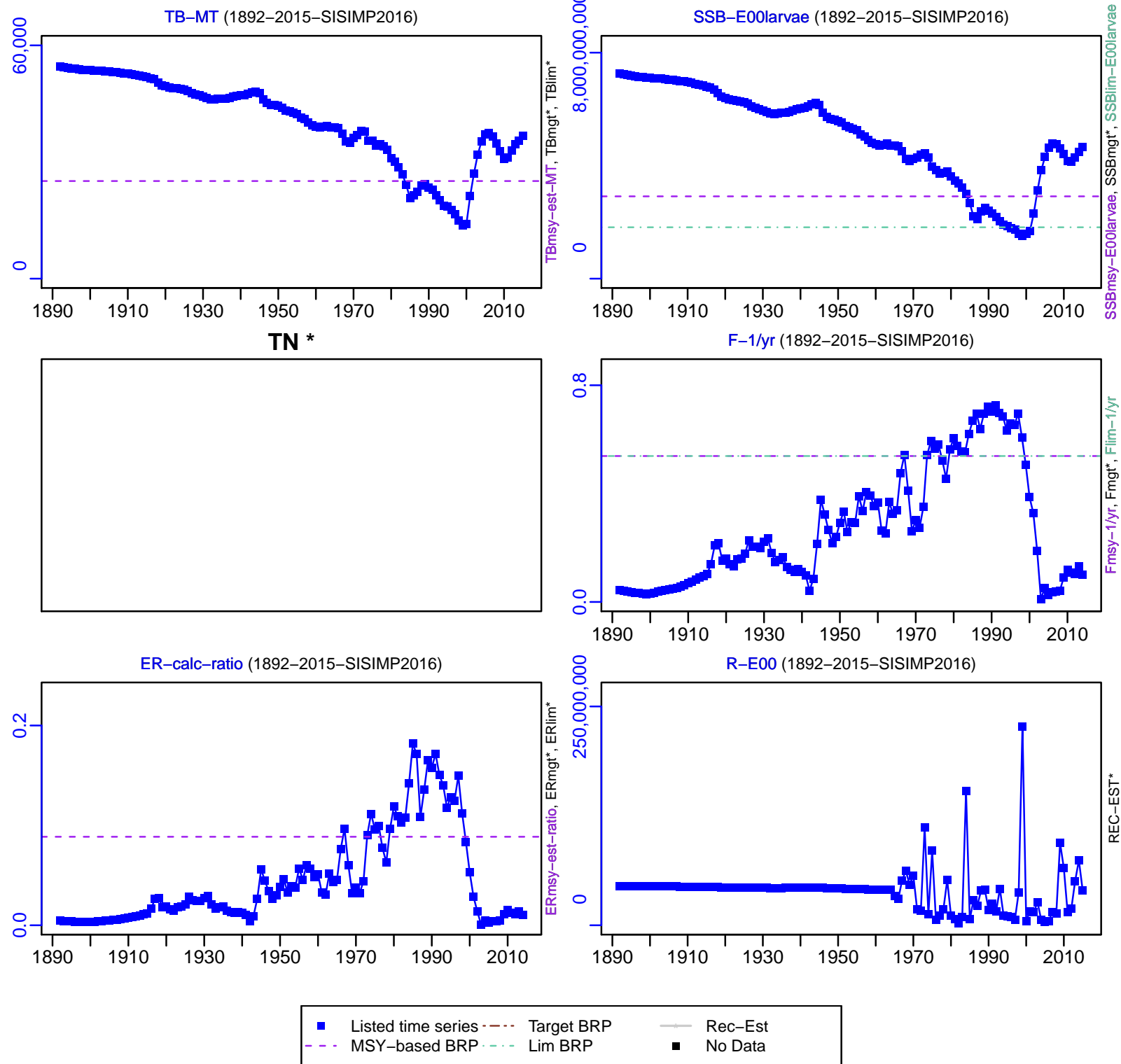


Production (1892–2015–SISIMP2016)



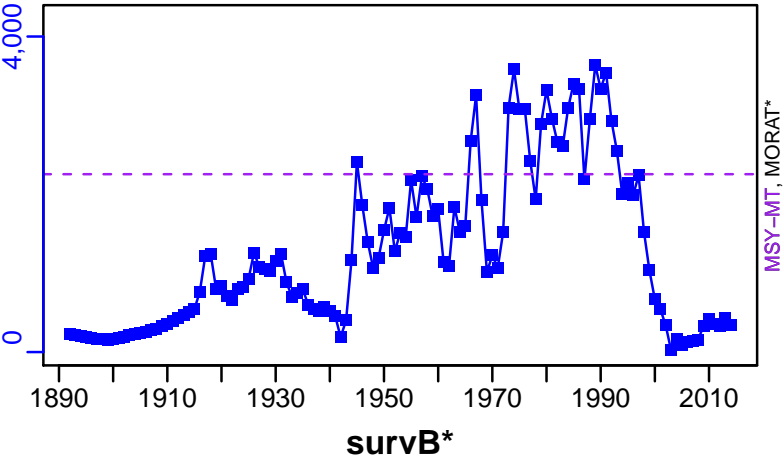
◆ Start Year ◆ End Year * No Data

Chilipepper Southern Pacific Coast [CHILISPCOAST]



Chilipepper Southern Pacific Coast [CHILISPCOAST]

TC-MT, TL*, RecC* (1892-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



China rockfish Central Pacific Coast [CHROCKCPCOAST]

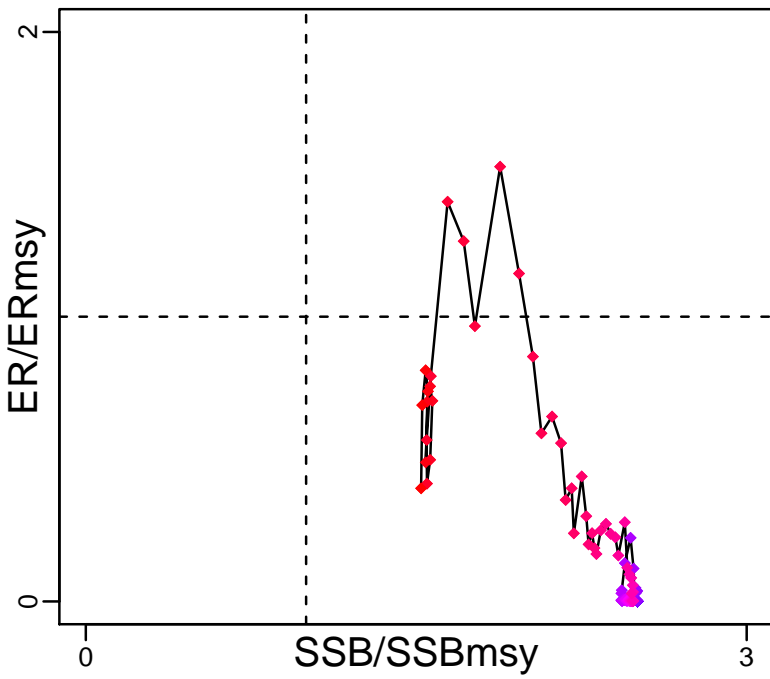
Metadata	
Scientific Name	Sebastes nebulosus
Current Assess ID	NWFSC-CHROCKCPCOAST-1900-2015-SISIMP2016
Area	Central Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	272
SSBmsy	SSBmsy-E00eggs	2015	2.6×10^{10}
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-est-ratio	2015	0.05
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	16
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	1.63×10^{10}
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

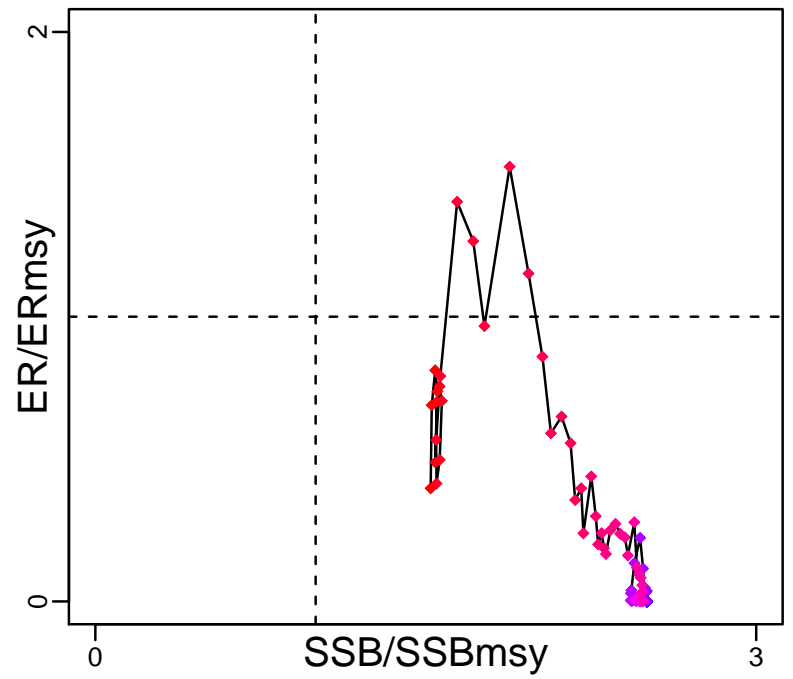
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	381	-	5+
SSB	SSB-E00eggs	2015	4×10^{10}	Females	-
TN	-	-	-	-	-
R	R-E00	2015	68,200	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	7.04		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.4		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.54		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.53		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.4		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

China rockfish Central Pacific Coast [CHROCKCPCOAST]

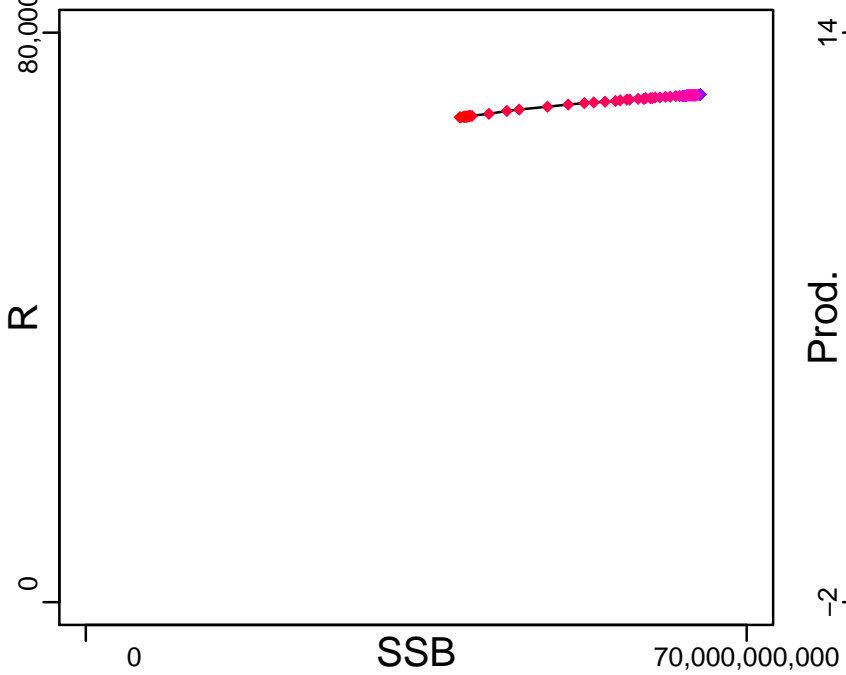
Kobe MSY_{pref} (1900–2015–SISIMP2016)



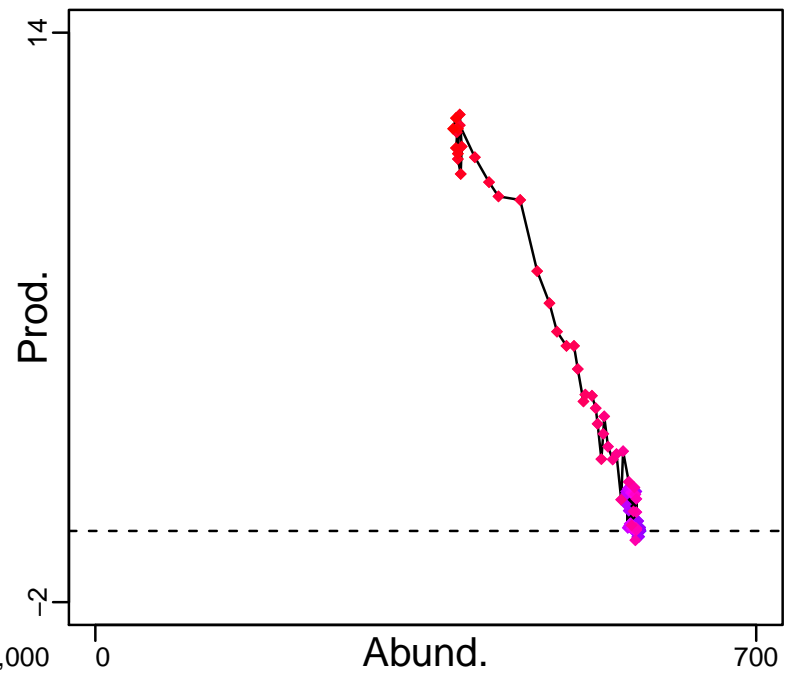
Kobe MGT_{pref} (1900–2015–SISIMP2016)



Spawner Recruit (1900–2015–SISIMP2016)

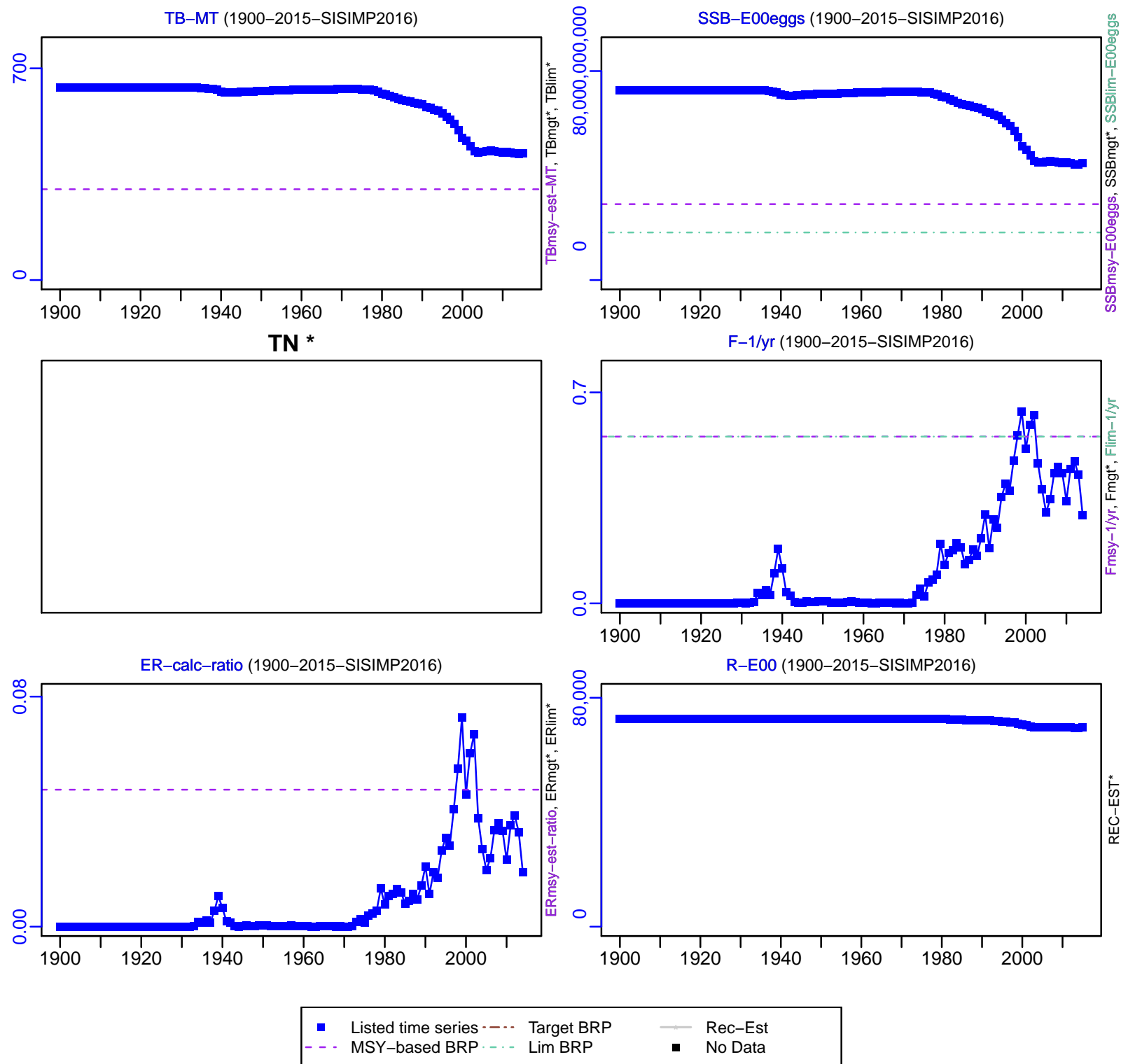


Production (1900–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

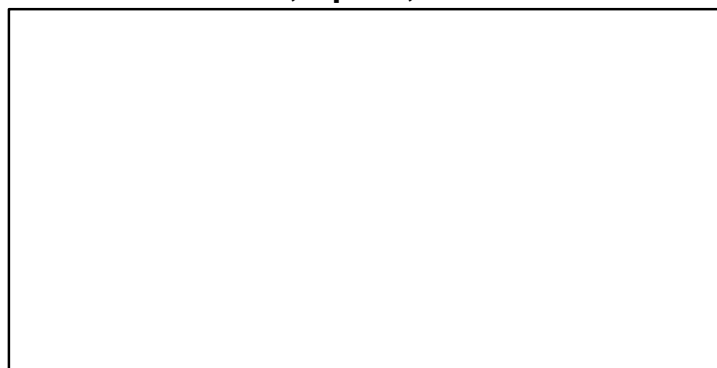
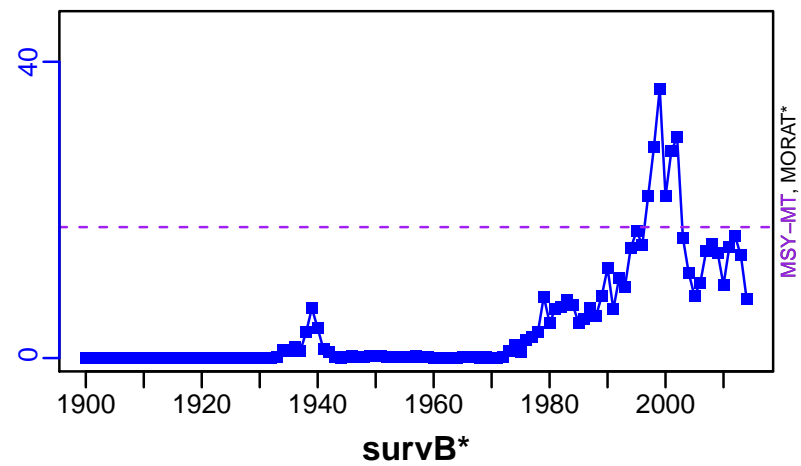
China rockfish Central Pacific Coast [CHROCKPCOAST]



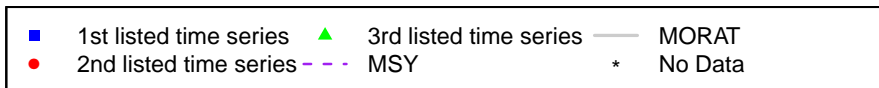
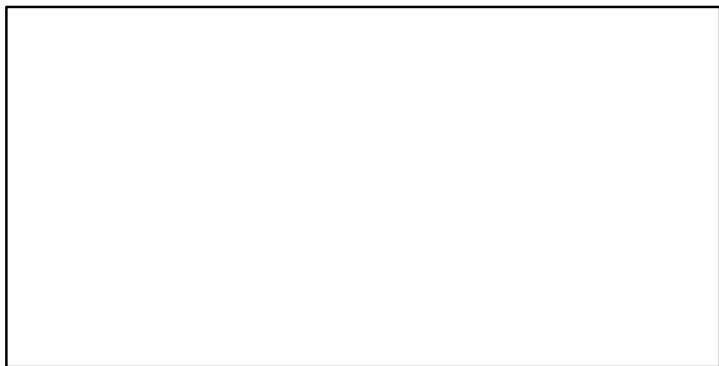
China rockfish Central Pacific Coast [CHROCKCPCOAST]

TC-MT, TL*, RecC* (1900-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



China rockfish Northern Pacific Coast [CHROCKNP COAST]

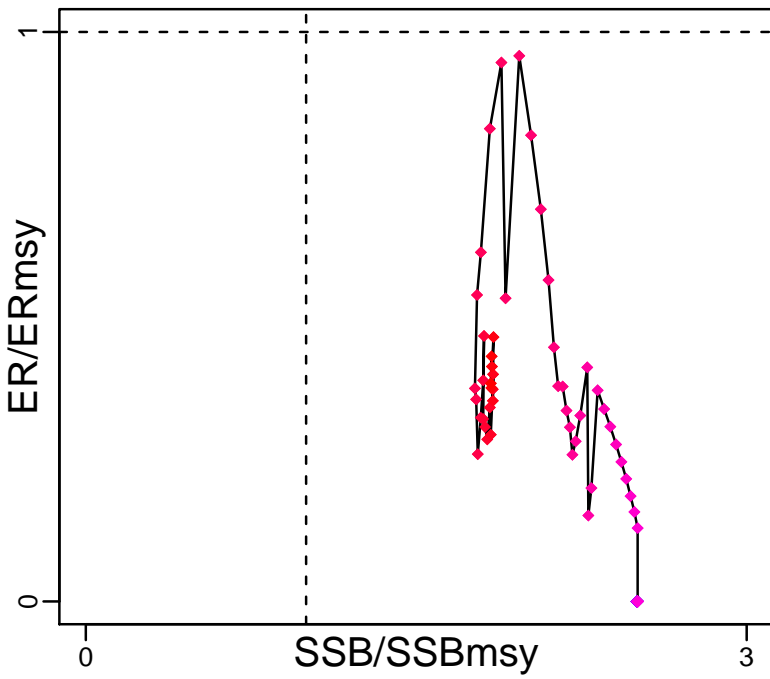
Metadata	
Scientific Name	Sebastes nebulosus
Current Assess ID	SWFSC-CHROCKNP COAST-1900-2015-SISIMP2016
Area	Northern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	111
SSBmsy	SSBmsy-E00eggs	2015	9.76×10^9
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-est-ratio	2015	0.04
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	5
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	6.13×10^9
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

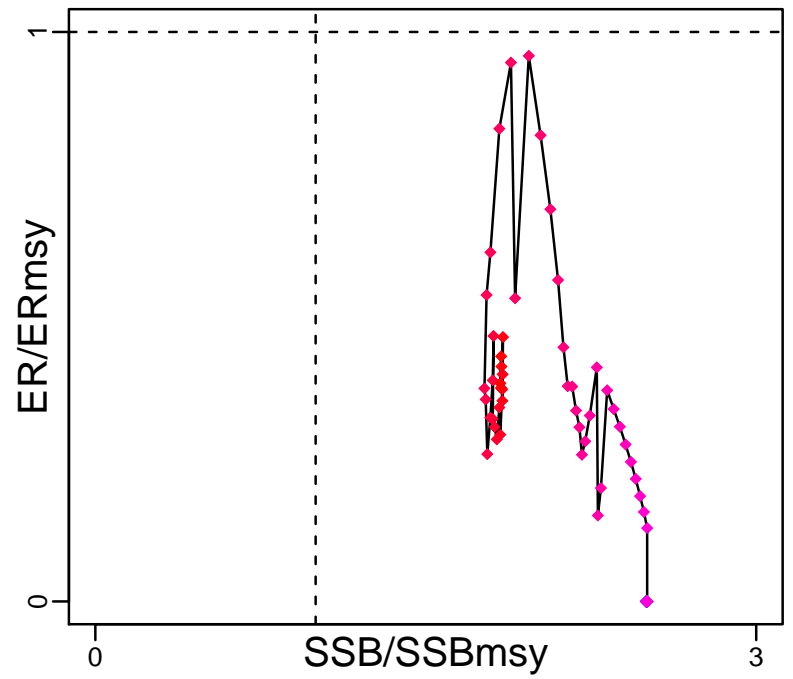
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	183	-	5+
SSB	SSB-E00eggs	2015	1.79×10^{10}	Females	-
TN	-	-	-	-	-
R	R-E00	2015	33,300	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	3.02		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.64		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.84		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.48		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.38		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

China rockfish Northern Pacific Coast [CHROCKNPCOAST]

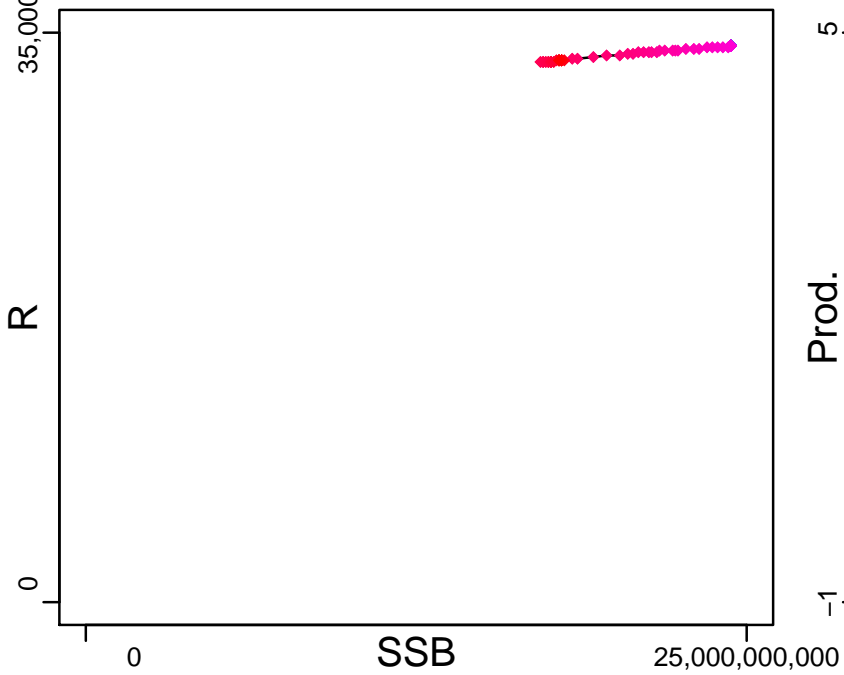
Kobe MSY_{pref} (1900–2015–SISIMP2016)



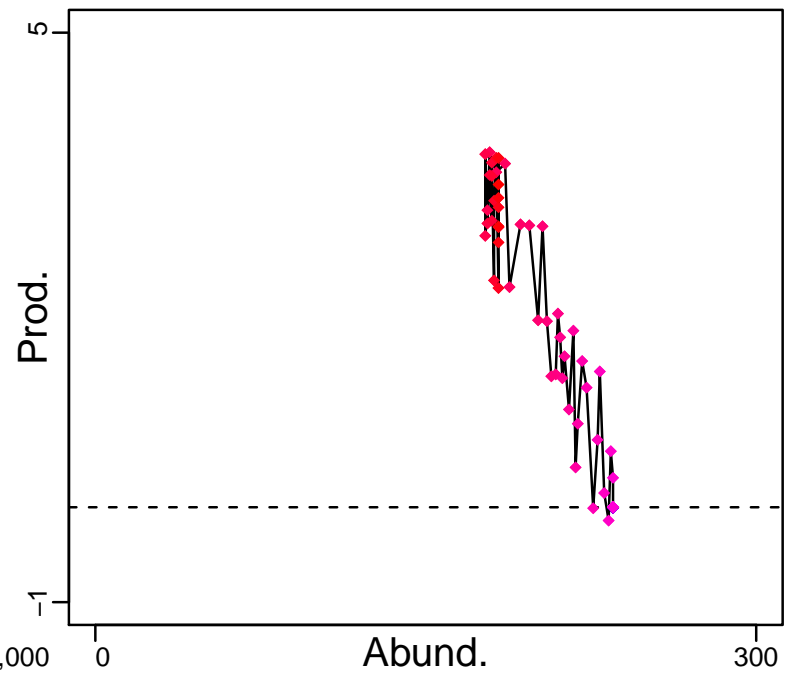
Kobe MGT_{pref} (1900–2015–SISIMP2016)



Spawner Recruit (1900–2015–SISIMP2016)

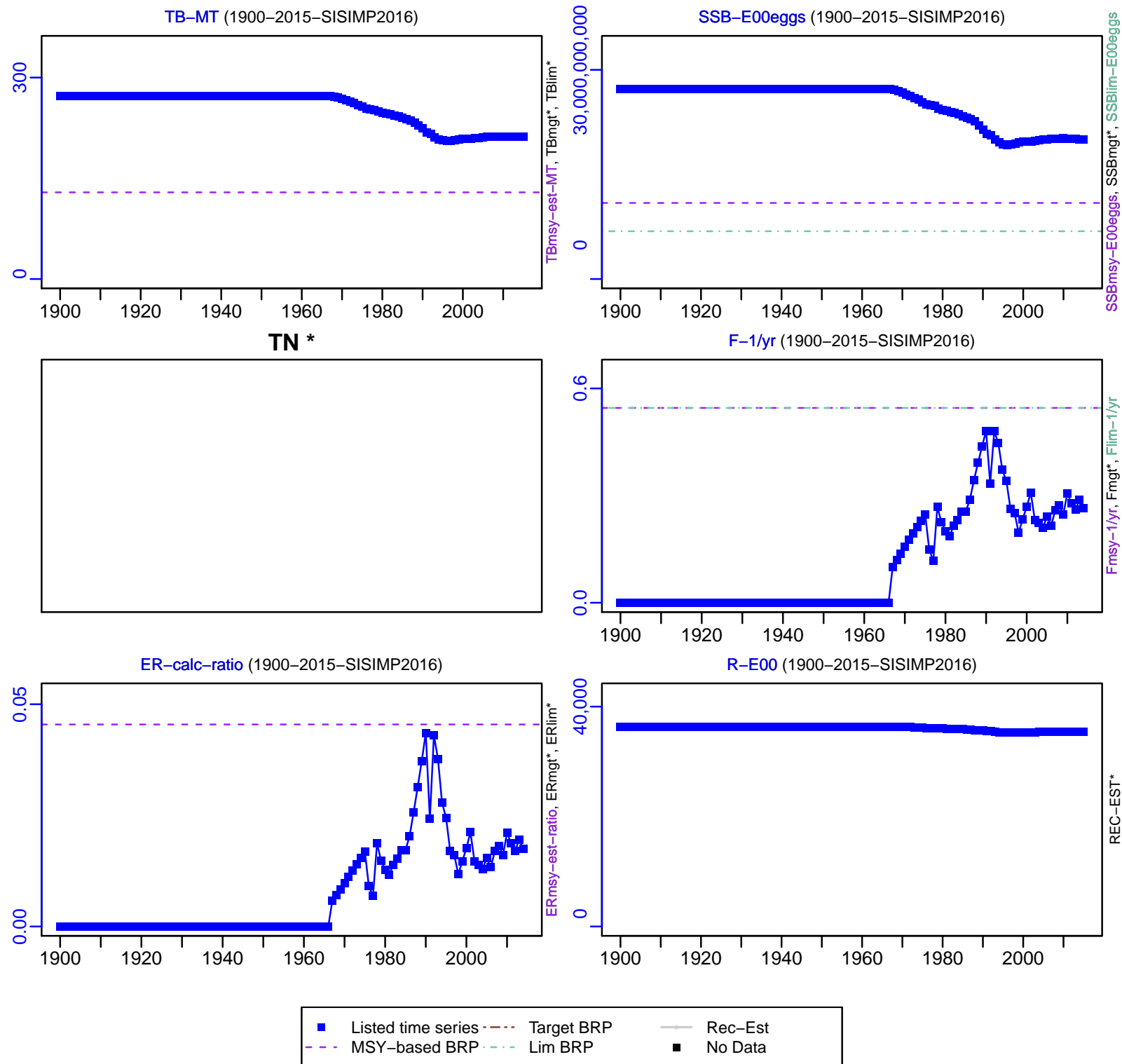


Production (1900–2015–SISIMP2016)



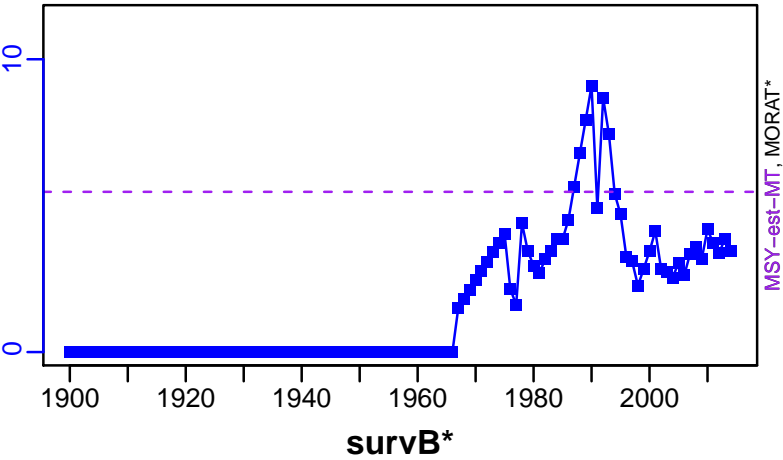
◆ Start Year ◆ End Year * No Data

China rockfish Northern Pacific Coast [CHROCKNP coast]



China rockfish Northern Pacific Coast [CHROCKNPCOAST]

TC-MT, TL*, RecC* (1900-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



China rockfish Southern Pacific Coast [CHROCKSPCOAST]

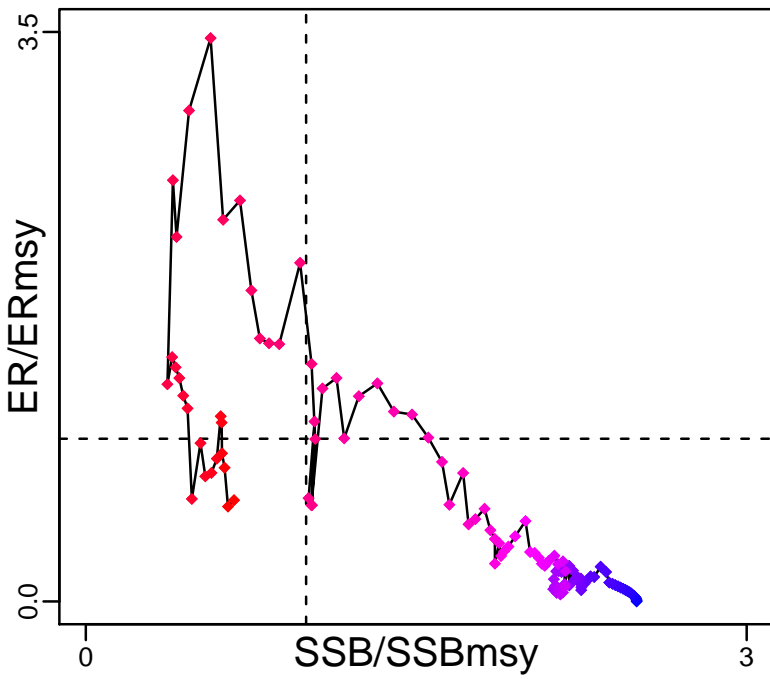
Metadata	
Scientific Name	Sebastes nebulosus
Current Assess ID	NWFSC-CHROCKSPCOAST-1900-2015-SISIMP2016
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	343
SSBmsy	SSBmsy-E00eggs	2015	2.66×10^{10}
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-est-ratio	2015	0.07
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	21
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	1.66×10^{10}
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

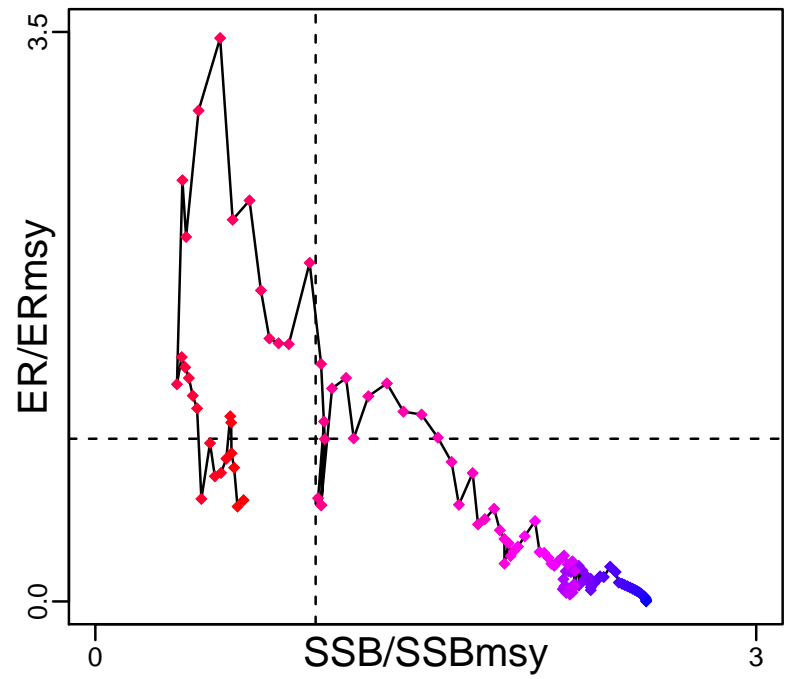
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	280	-	5+
SSB	SSB-E00eggs	2015	1.86×10^{10}	-	-
TN	-	-	-	-	-
R	R-E00	2015	130,000	-	0
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	12.4		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.82		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.7		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.04		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.62		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

China rockfish Southern Pacific Coast [CHROCKSPCOAST]

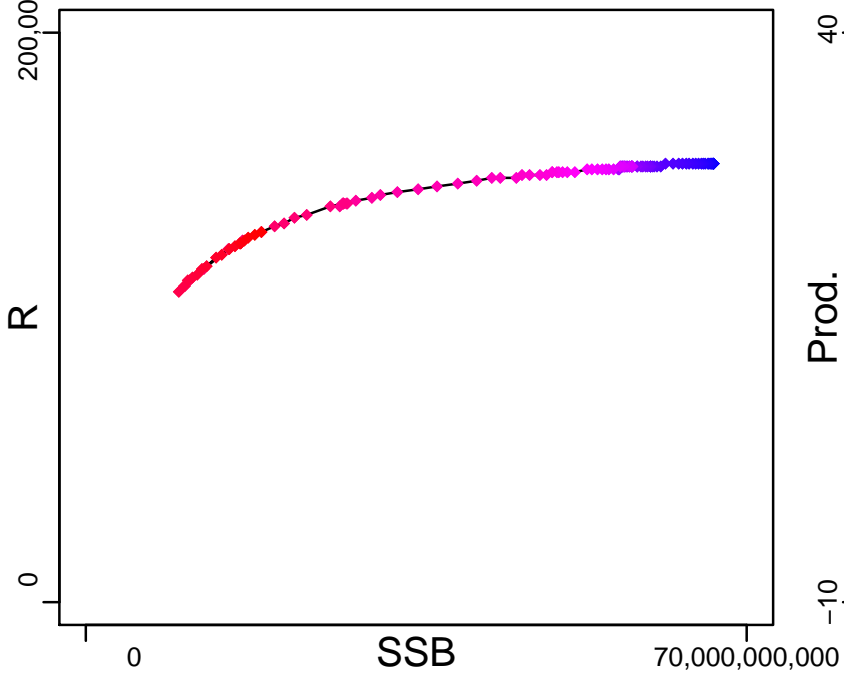
Kobe MSYpref (1900–2015–SISIMP2016)



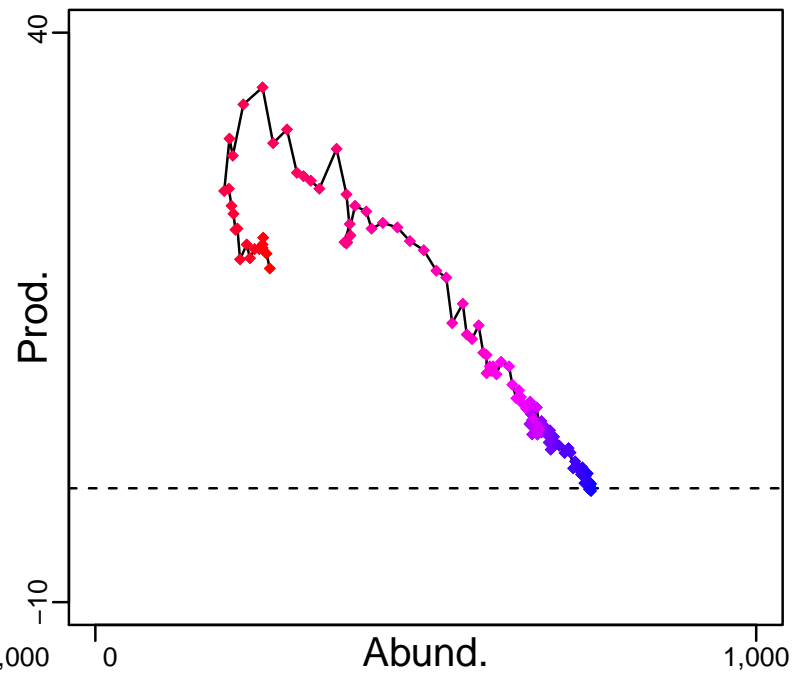
Kobe MGTpref (1900–2015–SISIMP2016)



Spawner Recruit (1900–2015–SISIMP2016)

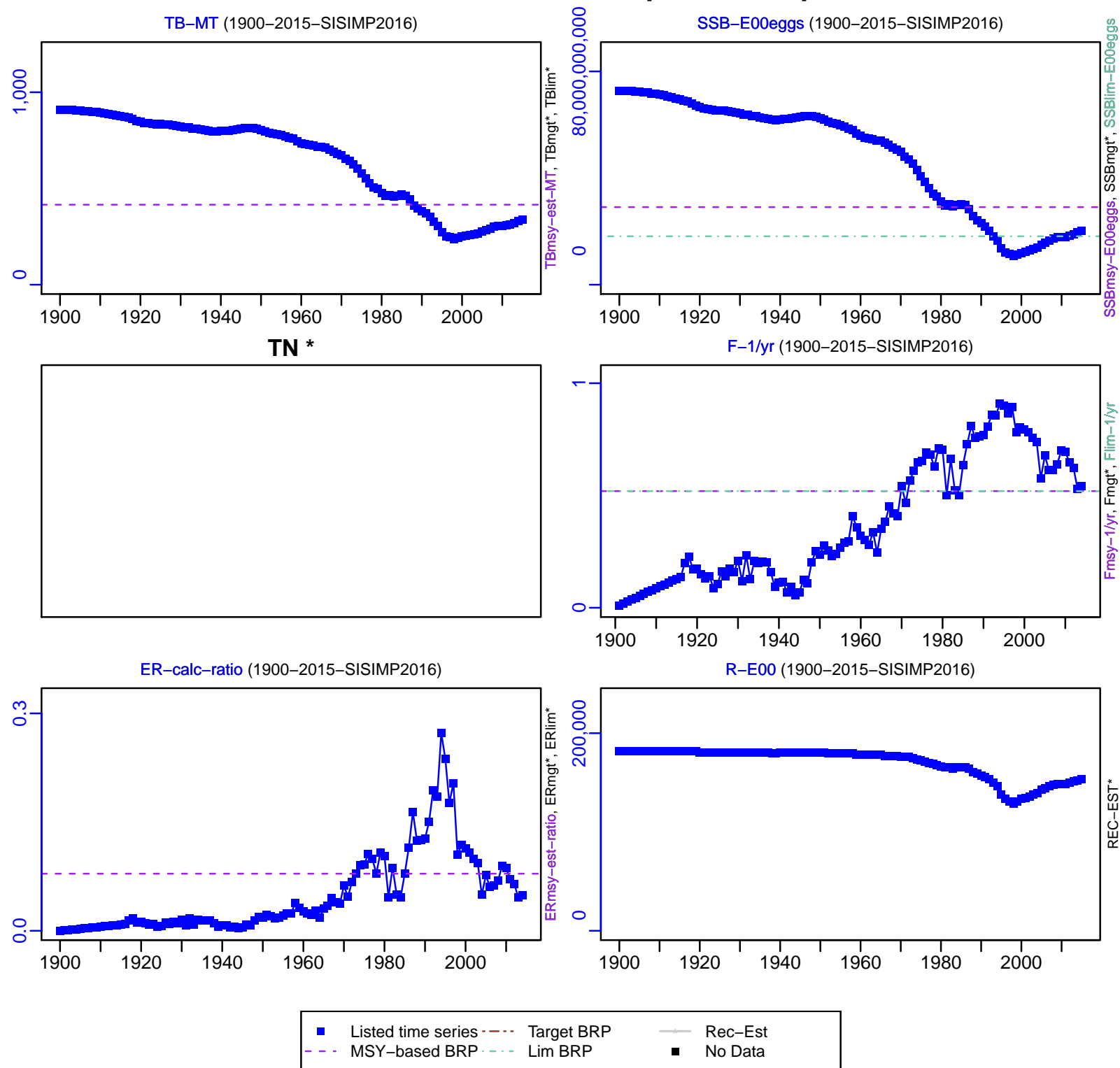


Production (1900–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

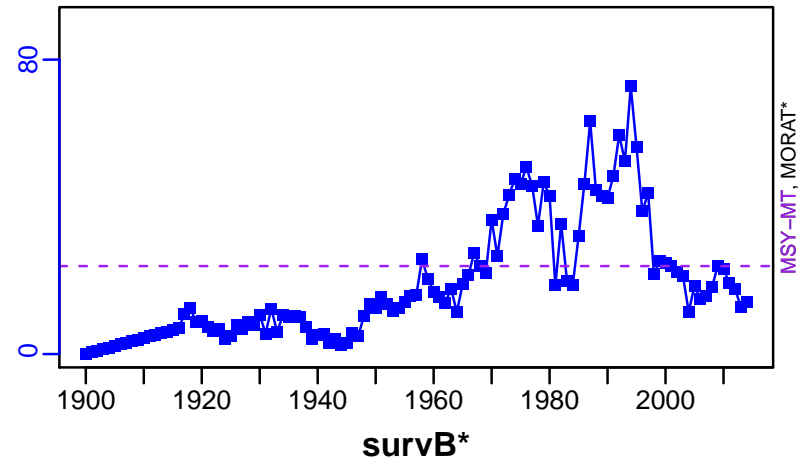
China rockfish Southern Pacific Coast [CHROCKSPCOAST]



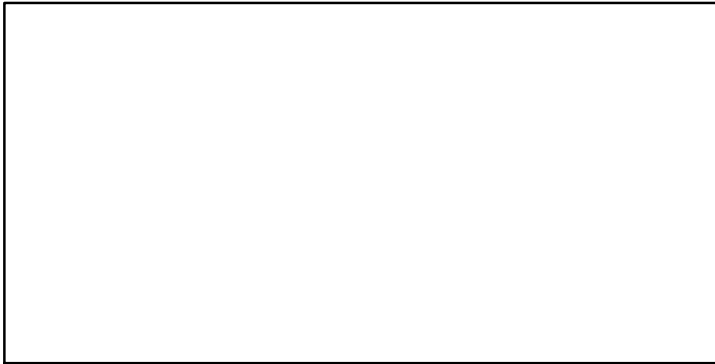
China rockfish Southern Pacific Coast [CHROCKSPCOAST]

TC-MT, TL*, RecC* (1900-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific chub mackerel Pacific Coast [CMACKPCOAST]

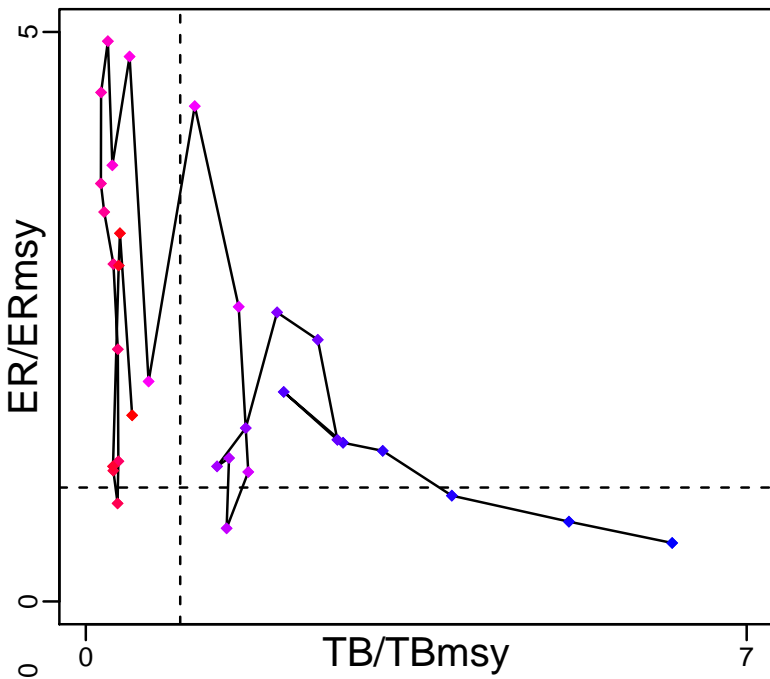
Metadata	
Scientific Name	Scomber japonicus
Current Assess ID	SWFSC-CMACKPCOAST-1983-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2008, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	198,392
SSBmsy	SSBmsy-MT	2008	122,357
Fmsy	Fmsy-1/yr	2008	0.14
ERmsy	ERmsy-ratio	2008	0.18
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2008	182,791
MSY	MSY-MT	2008	23,048
M	M-1/yr	2008	0.5
TBlim	TBlim-MT	2015	18,200
SSBlim	SSBlim-MT	2008	29,420
Flim	-	-	-
ERlim	-	-	-

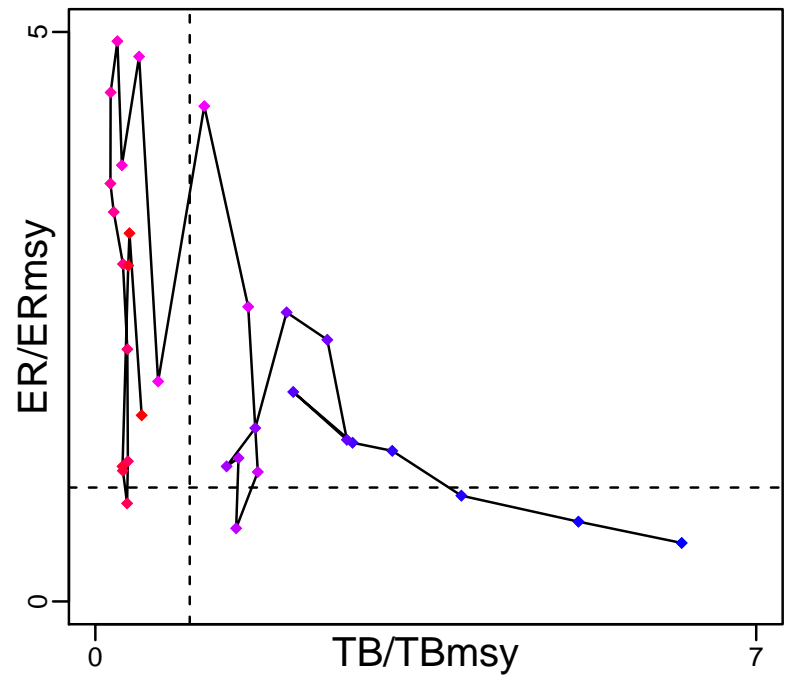
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	120,000	Both	1+
SSB	SSB-E00eggs	2015	40,800	Females	-
TN	-	-	-	-	-
R	R-E00	2015	3.01×10^8	-	0
F	F-1/yr	2008	0	-	-
ER	ER-ratio	2015	0	-	-
TC	TC-MT	2015	10,100		
TL	TL-MT	2008	13,700		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.61		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.68		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.63		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific chub mackerel Pacific Coast [CMACKPCOAST]

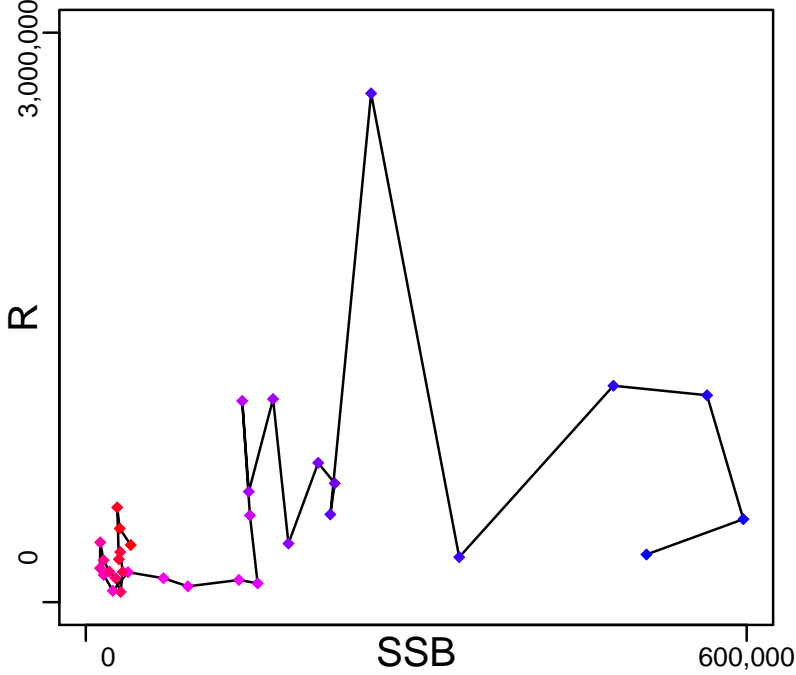
Kobe MSY_{pref} (1983–2015–SISIMP2016)



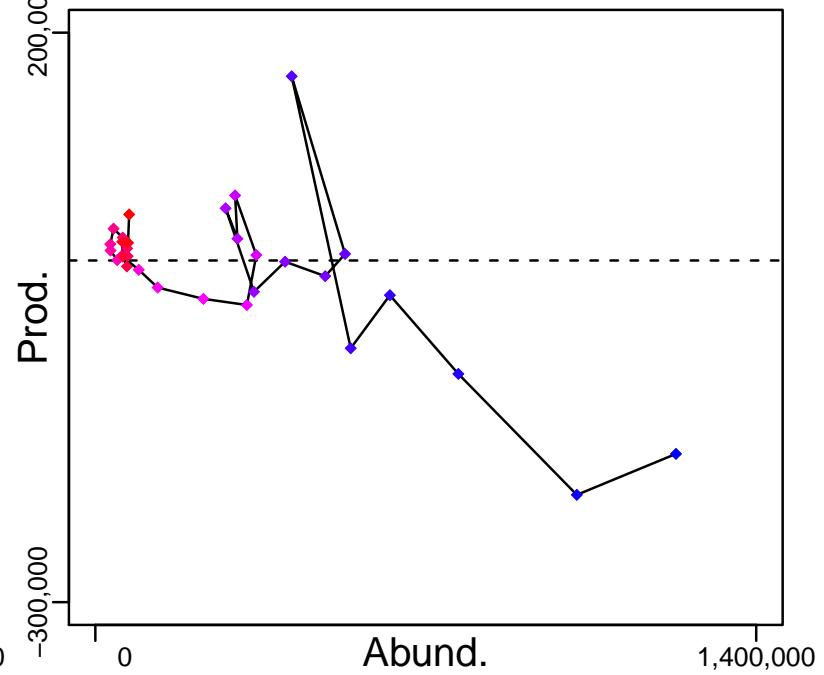
Kobe MGT_{pref} (1983–2015–SISIMP2016)



Spawner Recruit (1983–2015–SISIMP2016)



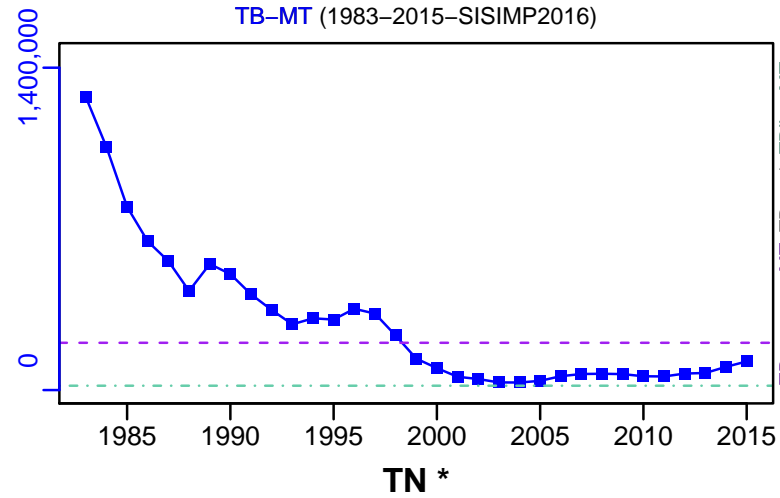
Production (1983–2015–SISIMP2016)



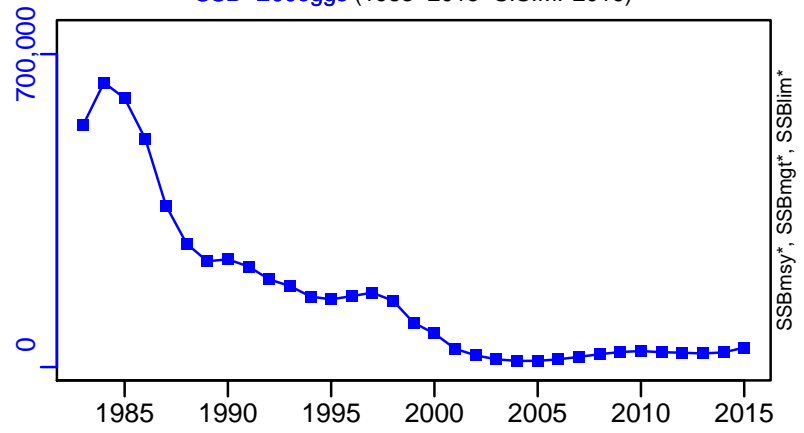
◆ Start Year ◆ End Year * No Data

Pacific chub mackerel Pacific Coast [CMACKPCOAST]

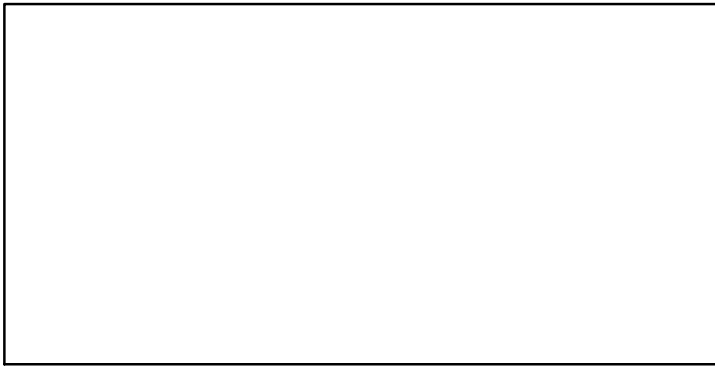
TB-MT (1983–2015–SISIMP2016)



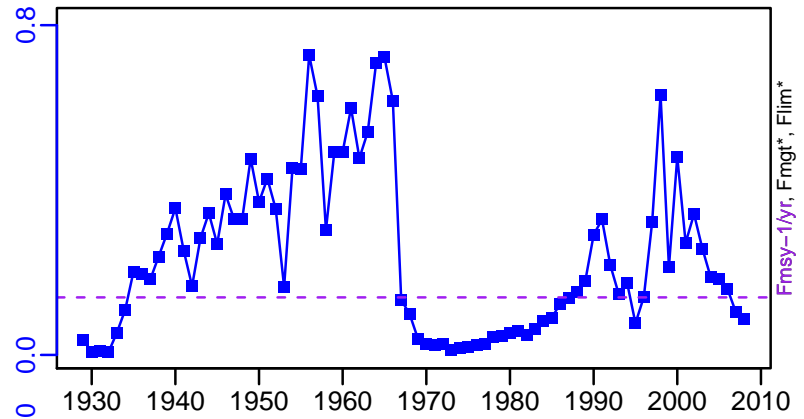
SSB-E00eggs (1983–2015–SISIMP2016)



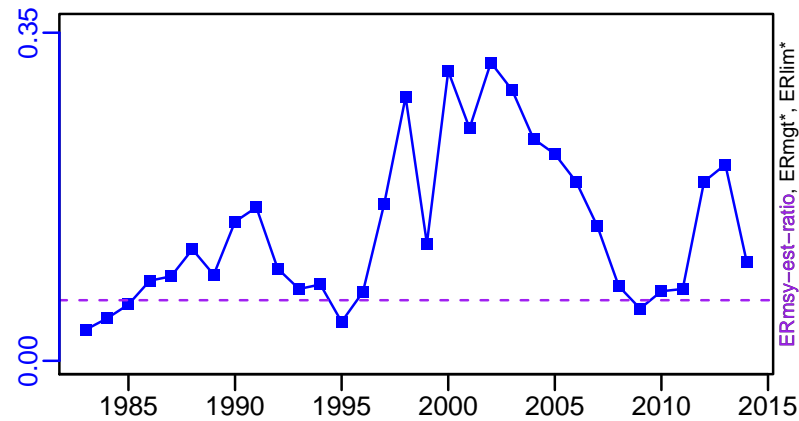
TN *



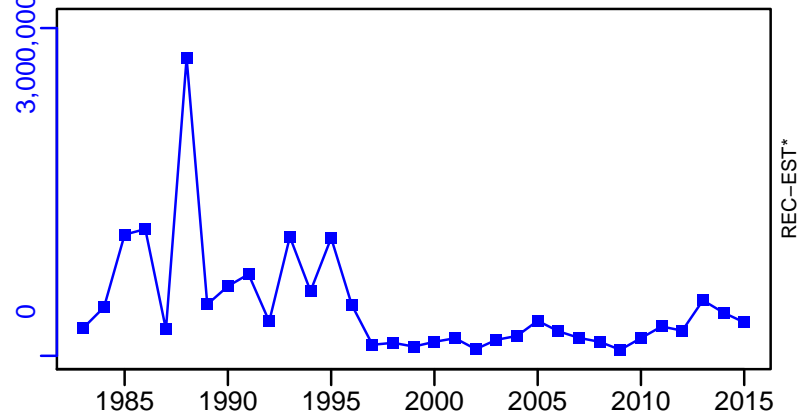
F-1/yr (1929–2008–PINSKY)



ER-ratio (1983–2015–SISIMP2016)



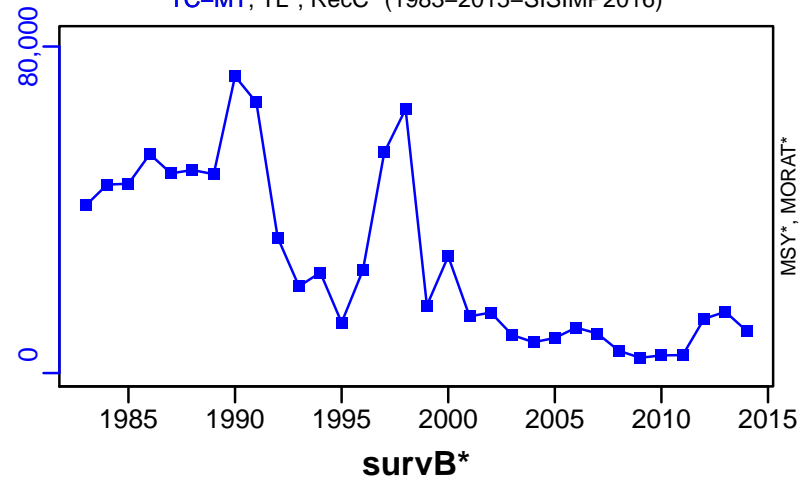
R-E00 (1983–2015–SISIMP2016)



Pacific chub mackerel Pacific Coast [CMACKPCOAST]

TC-MT, TL*, RecC* (1983-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Cowcod Southern California [COWCODSCAL]

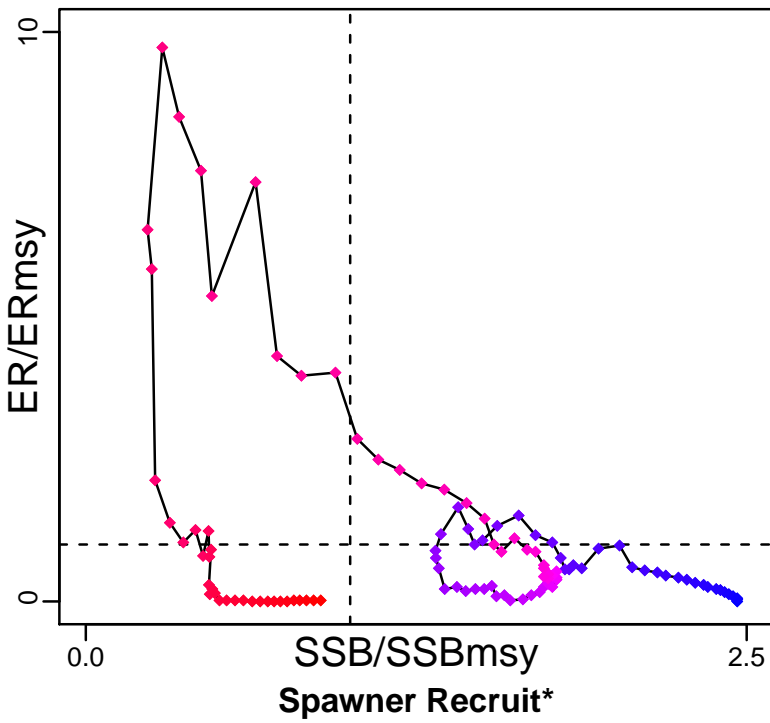
Metadata	
Scientific Name	Sebastes levis
Current Assess ID	PFMC-COWCODSCAL-1900-2015-HIVELY
Area	Southern California
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2015, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	1240
SSBmsy	SSBmsy-MT	2015	629
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.06
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

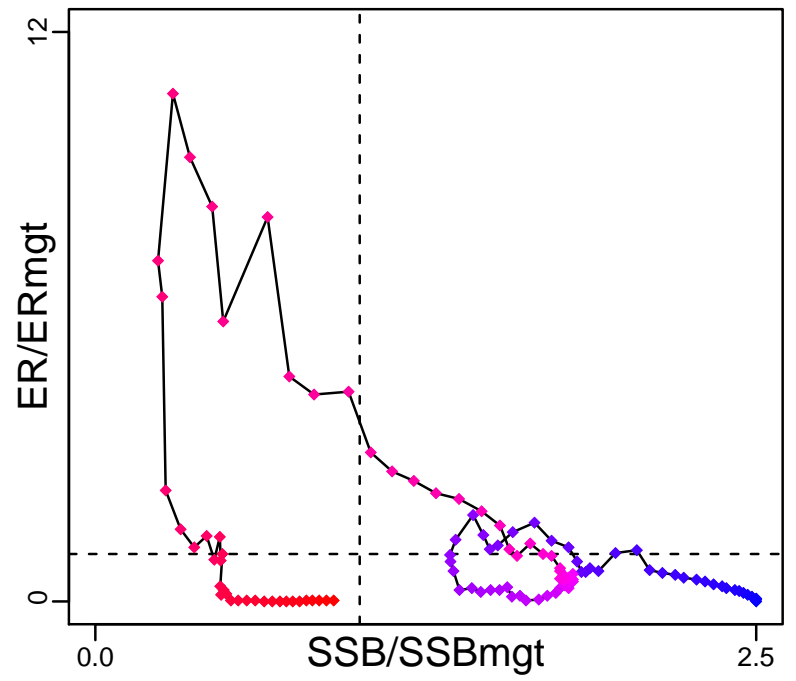
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1120	-	11+
SSB	SSB-MT	2015	559	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2015	0	-	-
TC	TC-MT	2015	1.5		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	0.85		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.89		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.02		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.9		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Cowcod Southern California [COWCODSCAL]

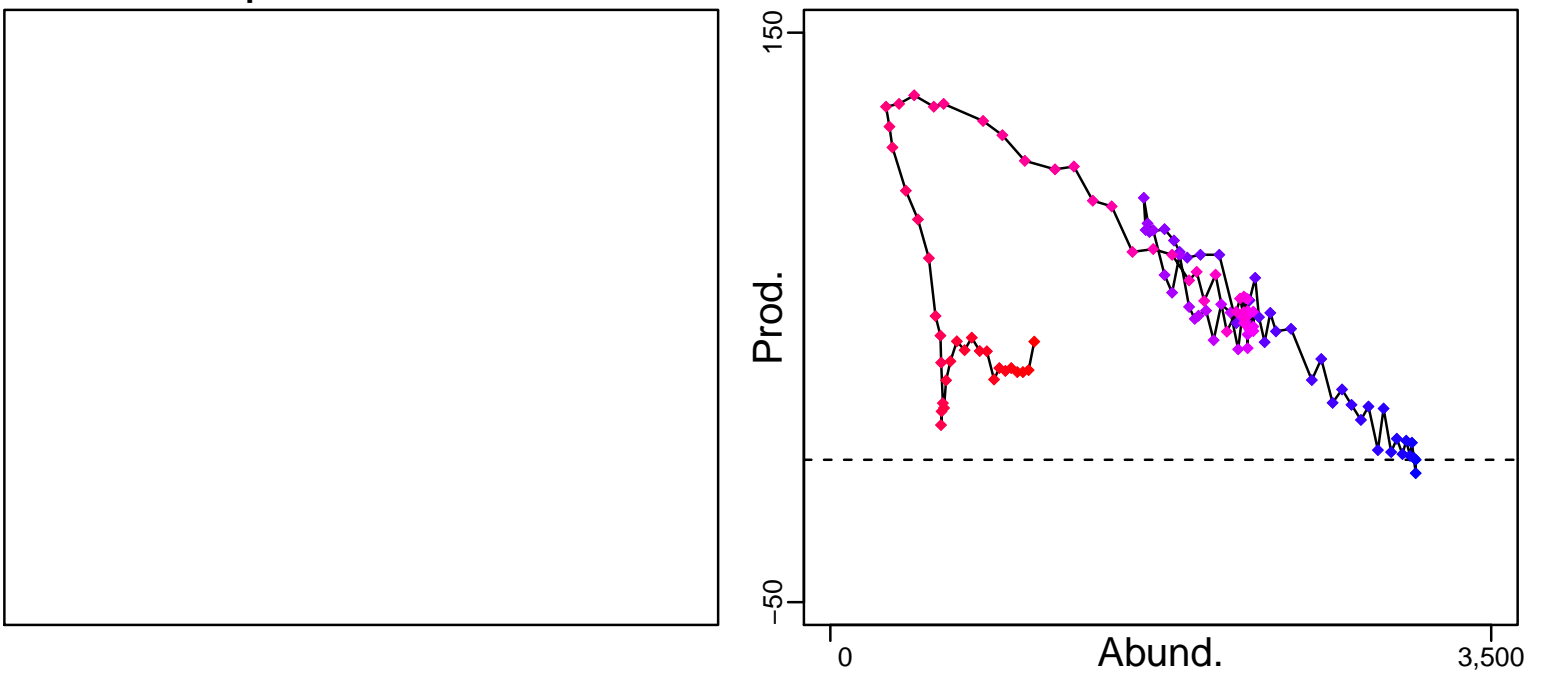
Kobe MSYpref (1900–2015–HIVELY)



Kobe MGTpref (1900–2015–HIVELY)



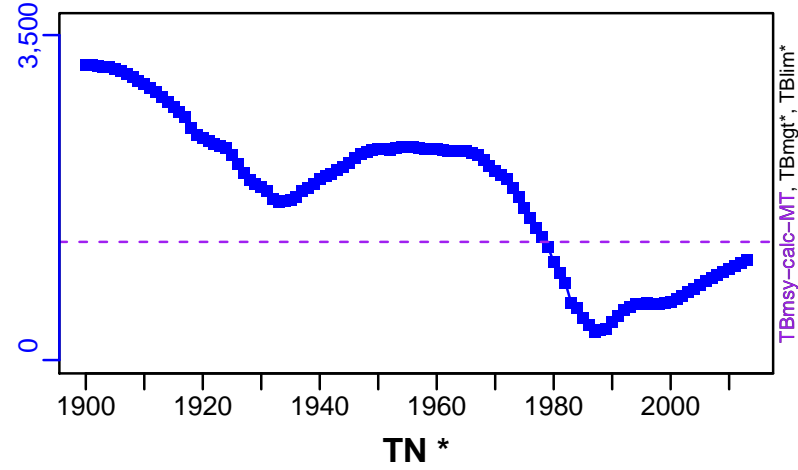
Production (1900–2015–HIVELY)



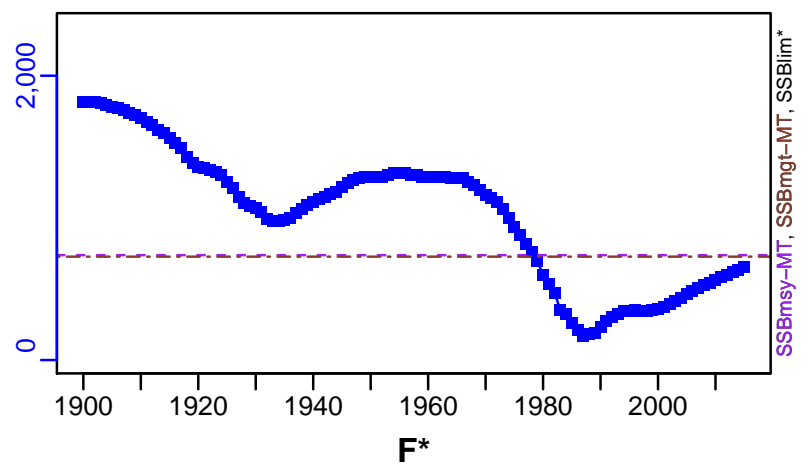
◆ Start Year ◆ End Year * No Data

Cowcod Southern California [COWCODSCAL]

TB-MT (1900–2012–SISIMP2016)

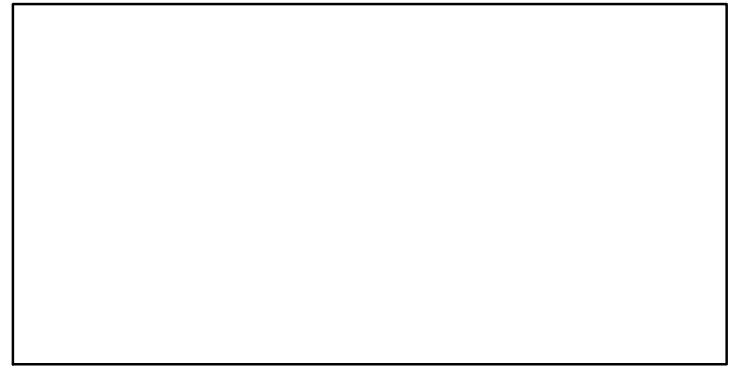
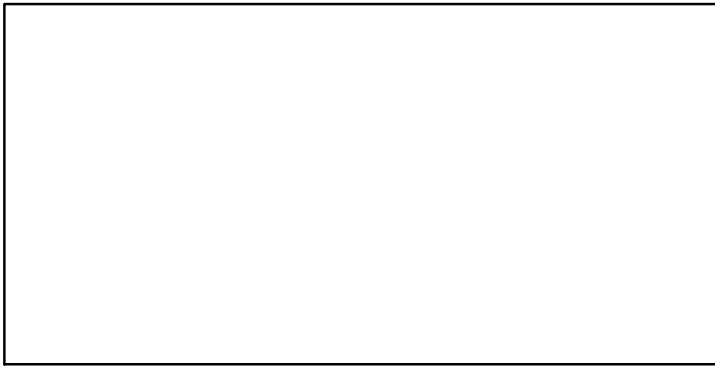


SSB-MT (1900–2015–HIVELY)

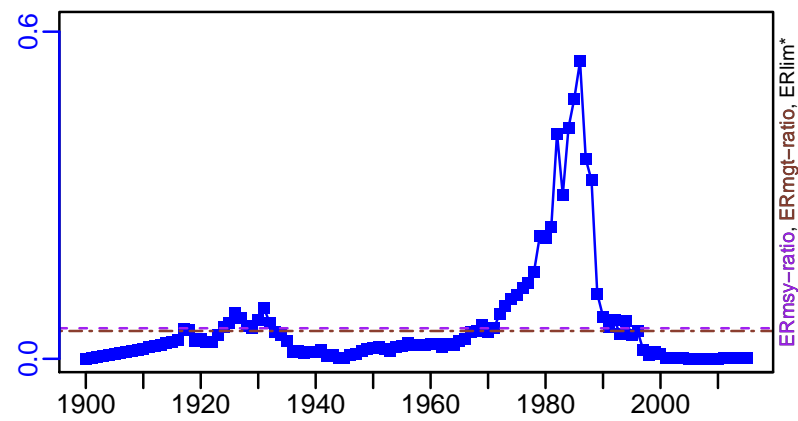


TN *

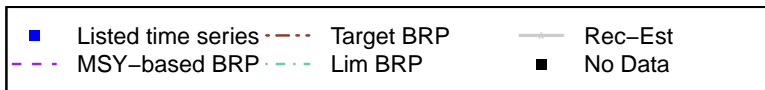
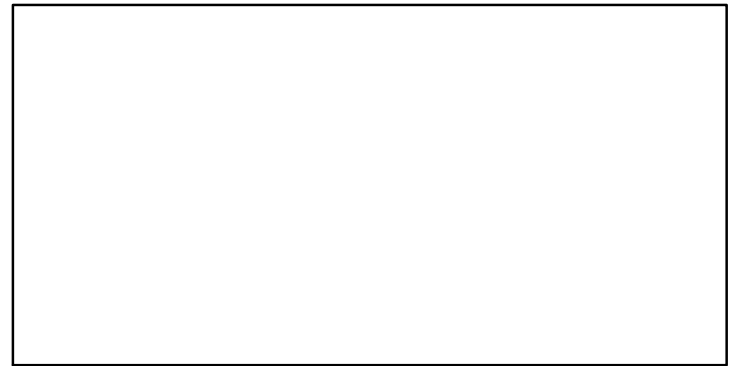
F*



ER-ratio (1900–2015–HIVELY)



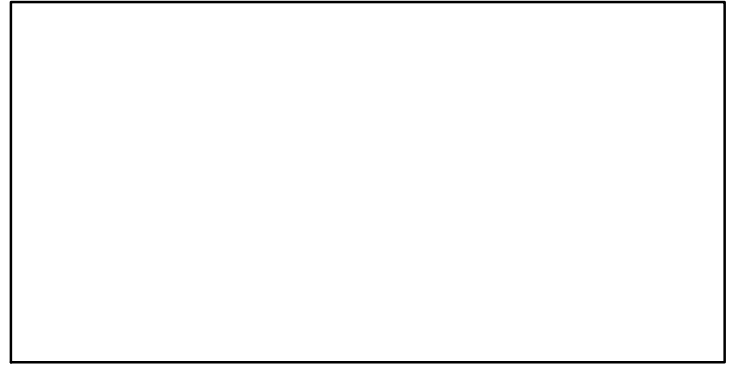
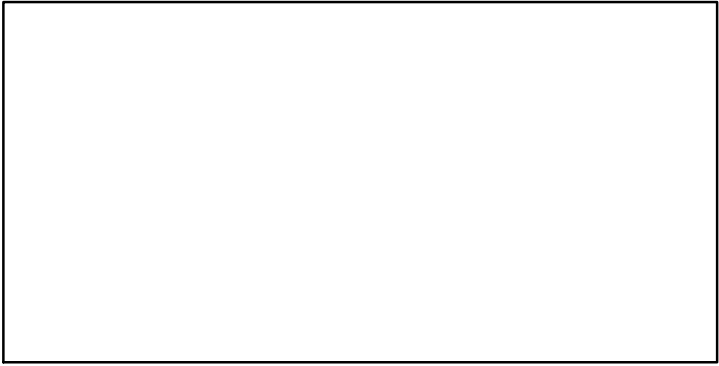
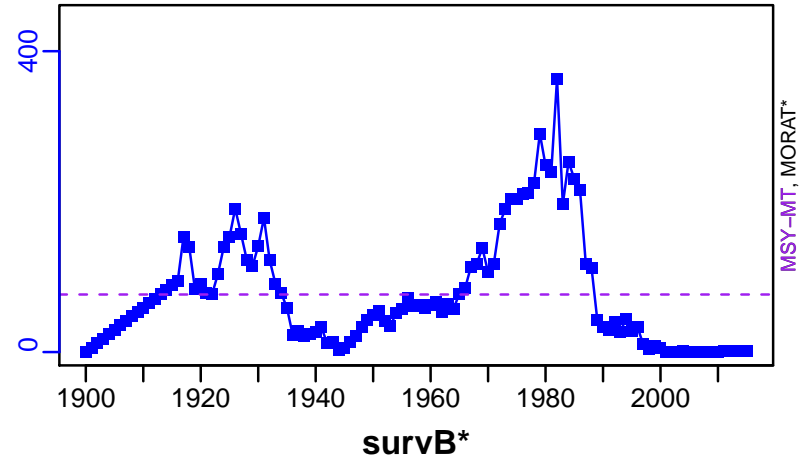
Recruits*



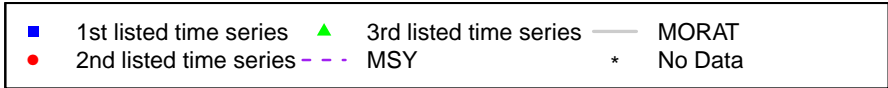
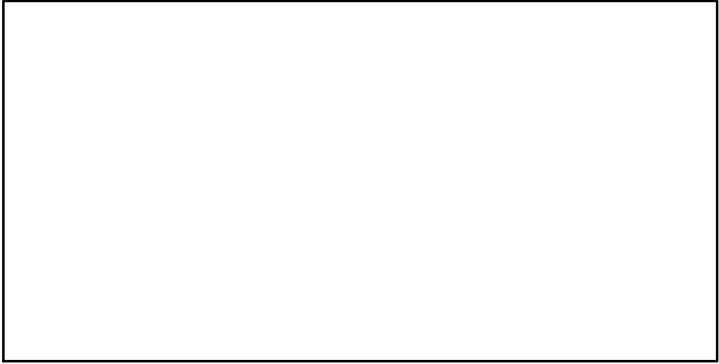
Cowcod Southern California [COWCODSCAL]

TC-MT, TL*, RecC* (1900-2015-HIVELY)

TAC*, Cpair*, Cadv*



EFFORT*



Copper rockfish Pacific Coast [CPRROCKPCOAST]

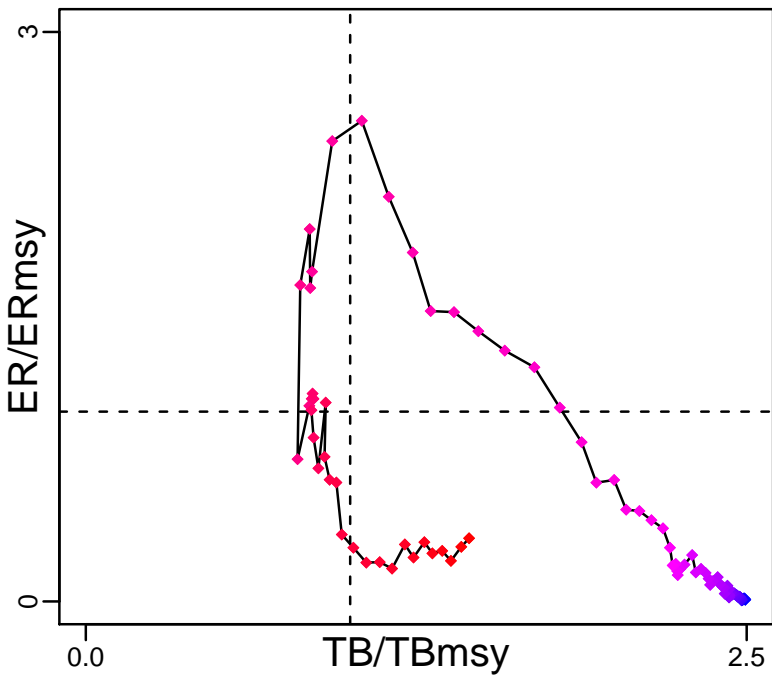
Metadata	
Scientific Name	Sebastes caurinus
Current Assess ID	SWFSC-CPRROCKPCOAST-1916-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	2238
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2012	0.09
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	197
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2012	0.09

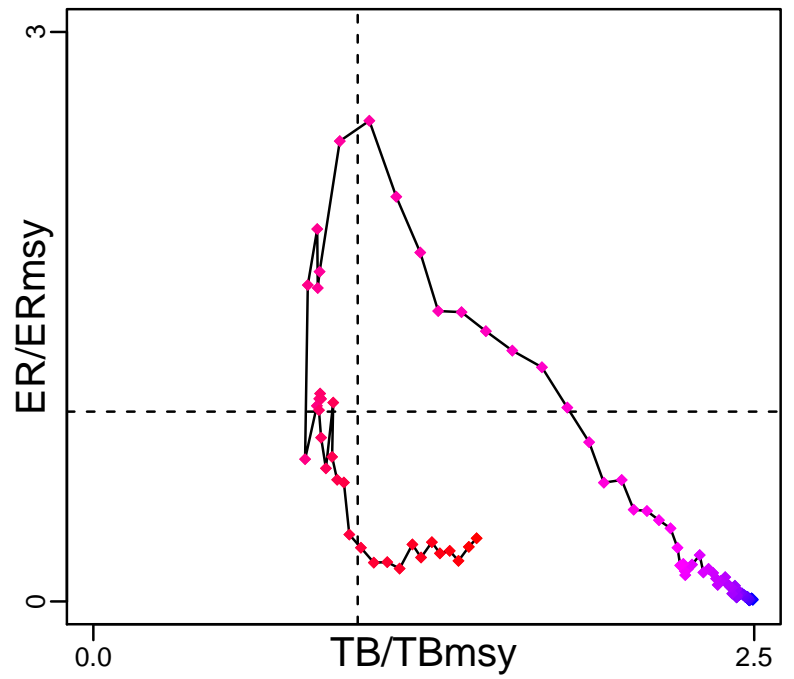
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	3290	-	6+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0	-	-
TC	TC-MT	2012	95.1	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-calc-MT	2012	1.47	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.33	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Copper rockfish Pacific Coast [CPRROCKPCOAST]

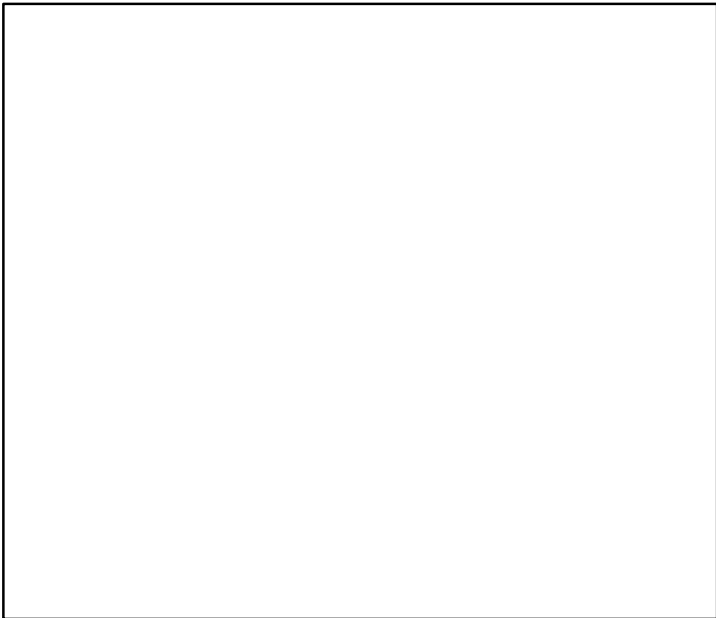
Kobe MSY_{pref} (1916–2012–SISIMP2016)



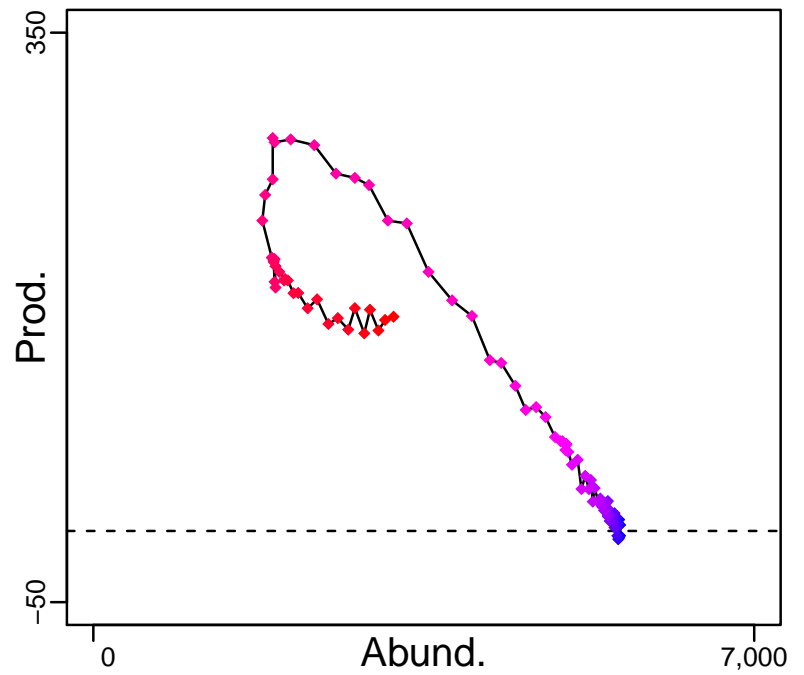
Kobe MGT_{pref} (1916–2012–SISIMP2016)



Spawner Recruit*



Production (1916–2012–SISIMP2016)

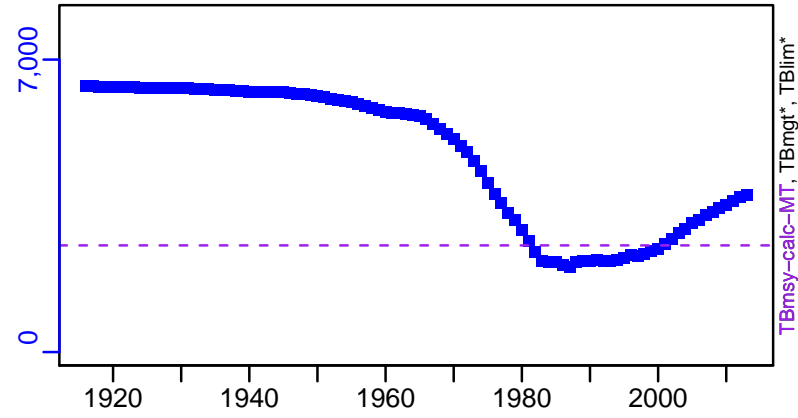


◆ Start Year ◆ End Year * No Data

Copper rockfish Pacific Coast [CPRROCKPCOAST]

TB-MT (1916-2012-SISIMP2016)

SSB*



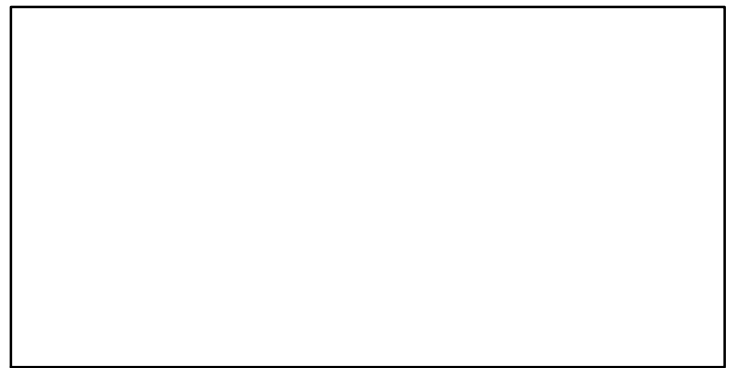
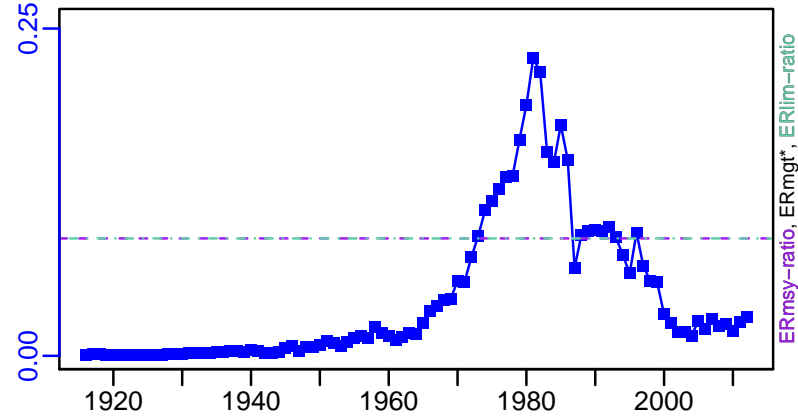
TN *

F*



ER-ratio (1916-2012-SISIMP2016)

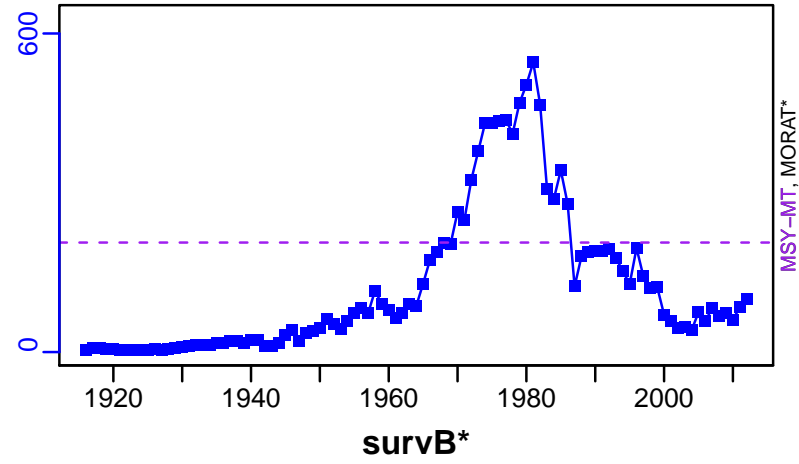
Recruits*



Copper rockfish Pacific Coast [CPRROCKPCOAST]

TC-MT, TL*, RecC* (1916-2012-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Canary rockfish Pacific Coast [CROCKPCOAST]

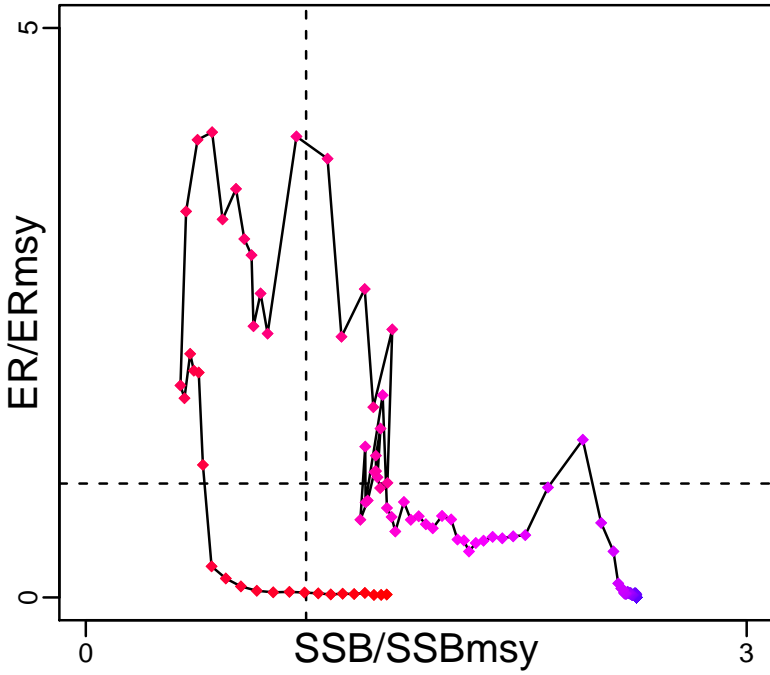
Metadata	
Scientific Name	Sebastes pinniger
Current Assess ID	NWFSC-CROCKPCOAST-1892-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	33,011
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
M	M-1/yr	2011	0.06
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	1,872,750,000
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

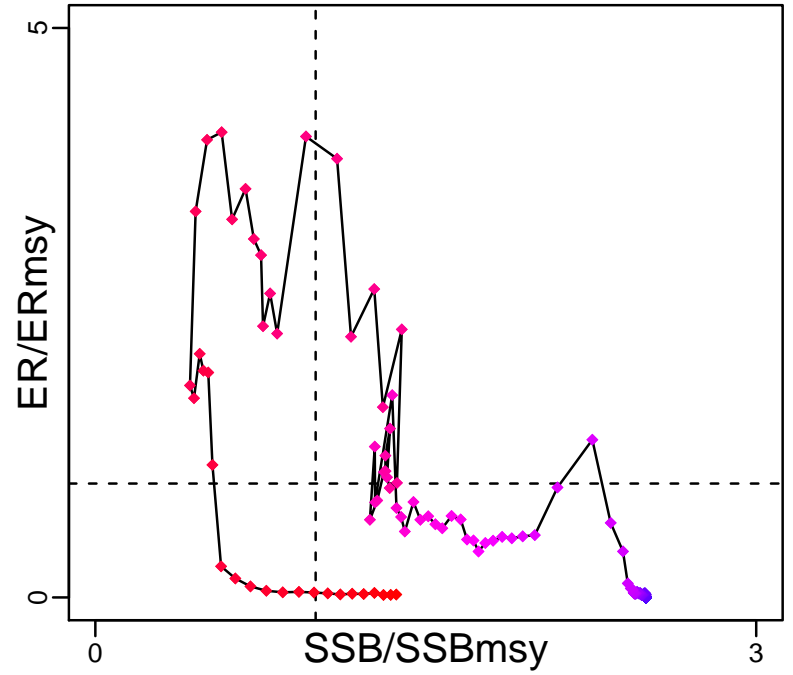
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	36,000	-	5+
SSB	SSB-E00eggs	2015	4.16×10^9	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2,700,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	41.6		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.09		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	1.39		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.05		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.17		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Canary rockfish Pacific Coast [CROCKPCOAST]

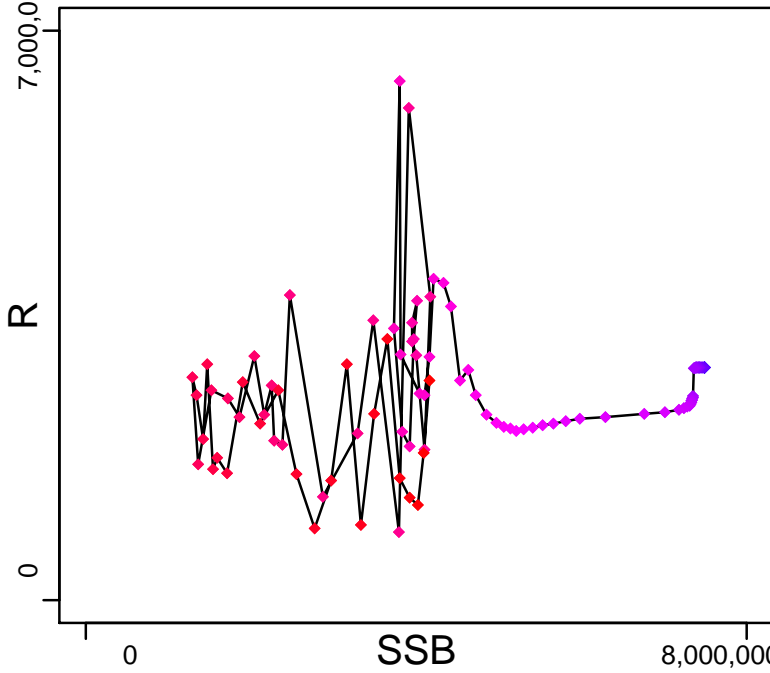
Kobe MSYpref (1892–2015–SISIMP2016)



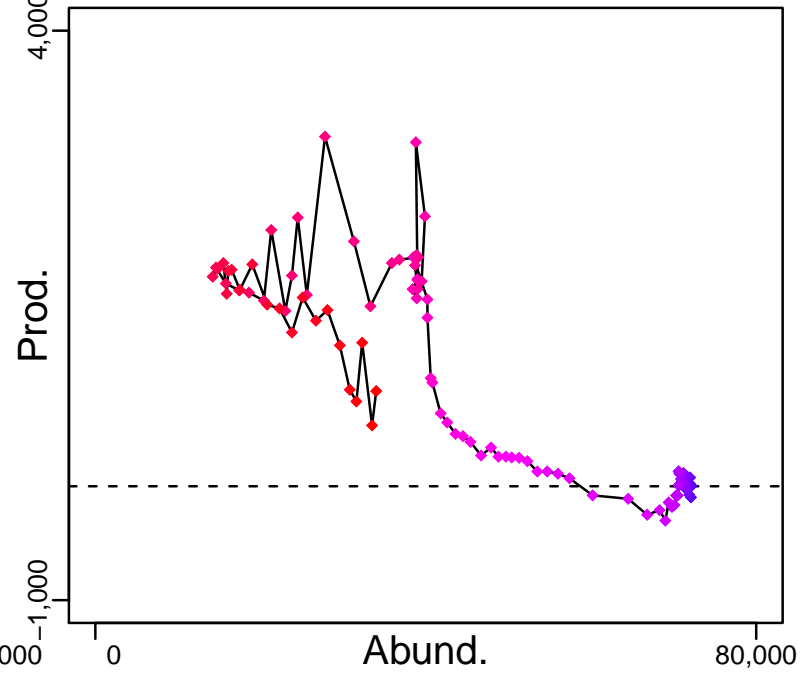
Kobe MGTpref (1892–2015–SISIMP2016)



Spawner Recruit (1892–2015–SISIMP2016)

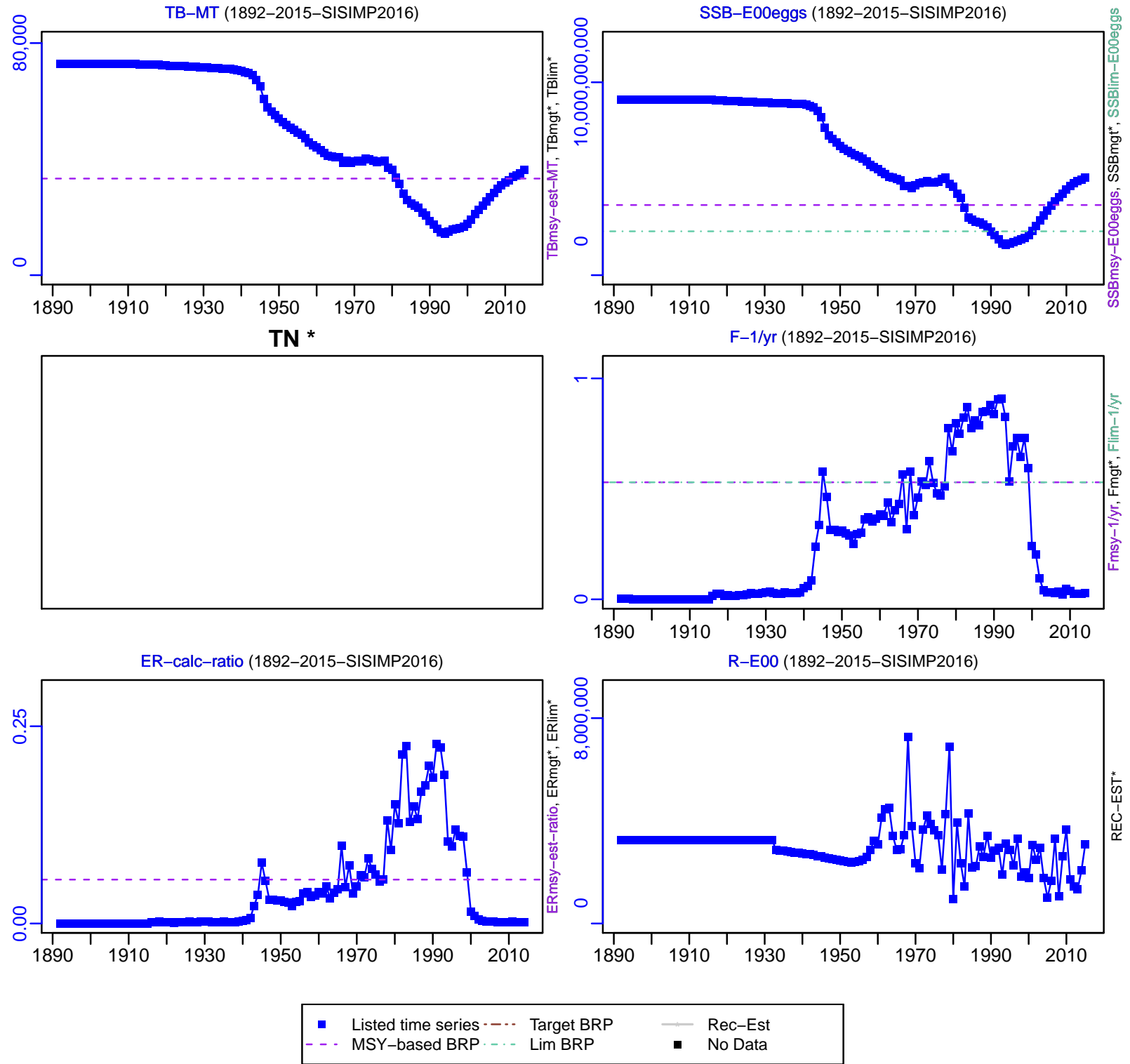


Production (1892–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

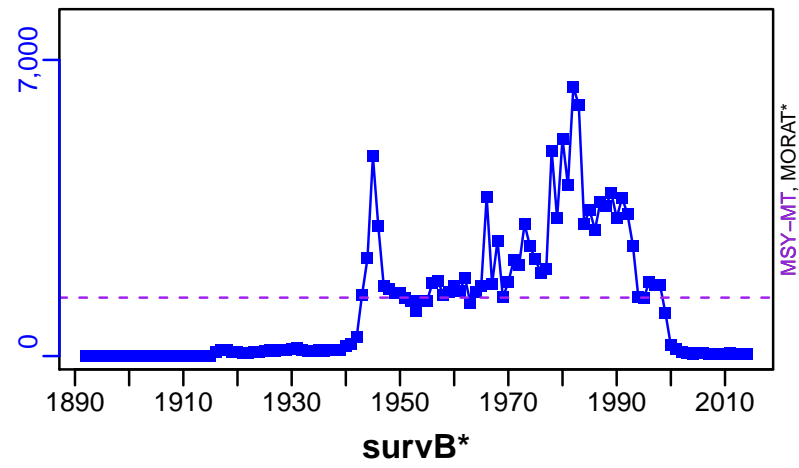
Canary rockfish Pacific Coast [CROCKPCOAST]



Canary rockfish Pacific Coast [CROCKPCOAST]

TC-MT, TL*, RecC* (1892-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

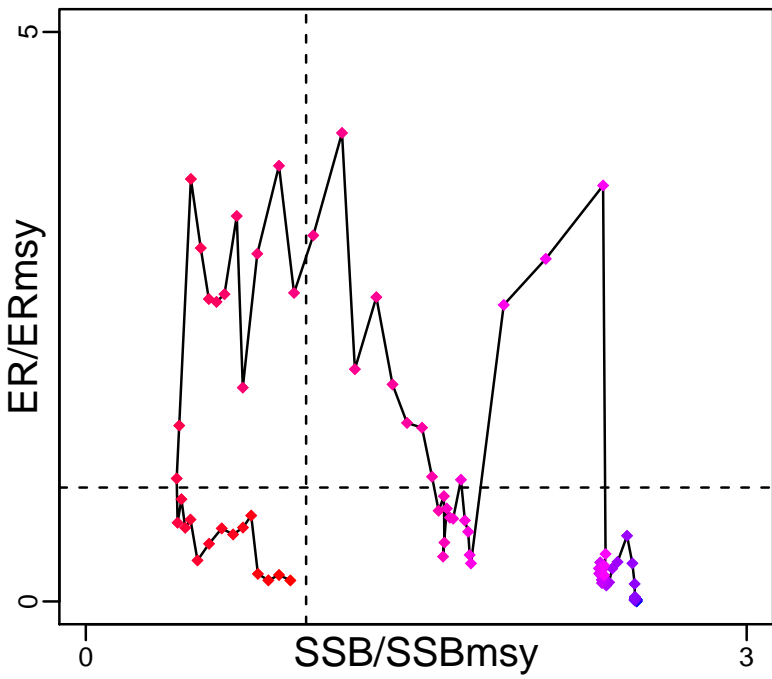
Metadata	
Scientific Name	Sebastes crameri
Current Assess ID	NWFSC-DKROCKPCOAST-1915-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	17,789
SSBmsy	SSBmsy-E00eggs	2015	1.28×10^9
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-conv-ratio	2011	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	32,710
SSB0	SSB0-E00eggs	2011	2.92×10^{12}
MSY	MSY-MT	2015	674
M	M-1/yr	2011	0.07
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	8×10^8
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

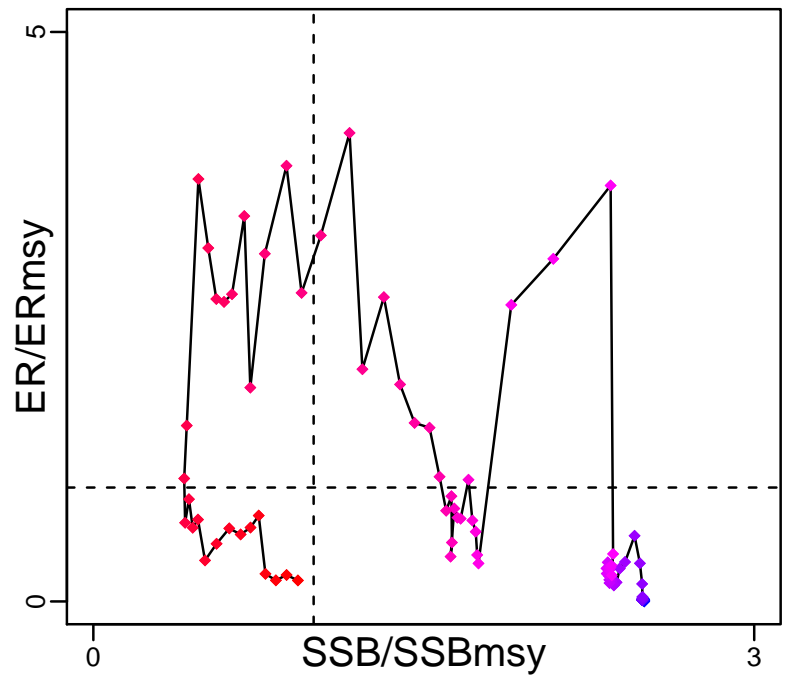
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	17,900	-	1+
SSB	SSB-E00eggs	2015	1.26×10^9	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2,490,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	104		
TL	TL-MT	2011	183		
TB/TBmsy	TB-MT/TB0-MT	2011	1.15		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.98		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.23		
ER/ERmsy	ER-ratio/ERmsy-conv-ratio	2011	0.21		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

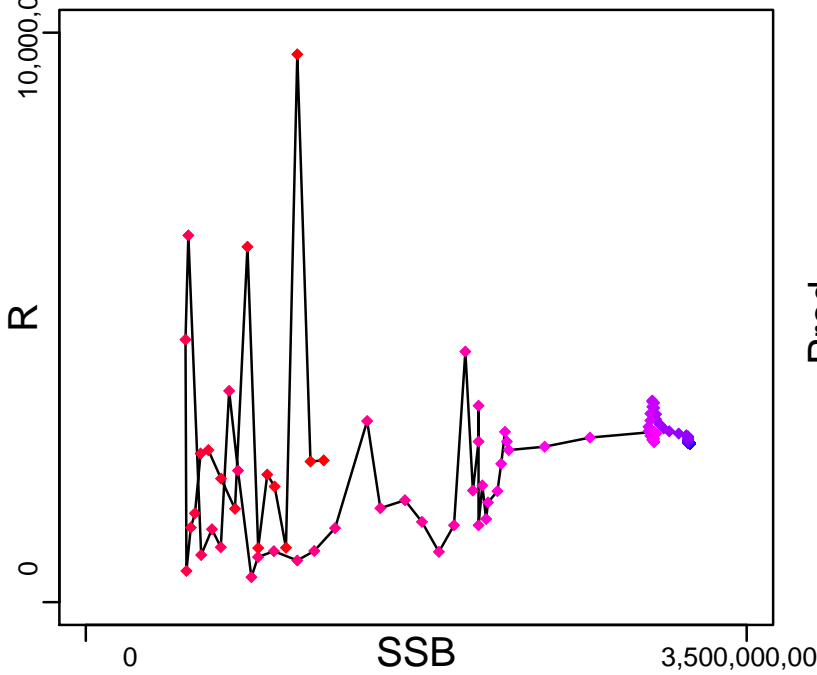
Kobe MSYpref (1915–2015–SISIMP2016)



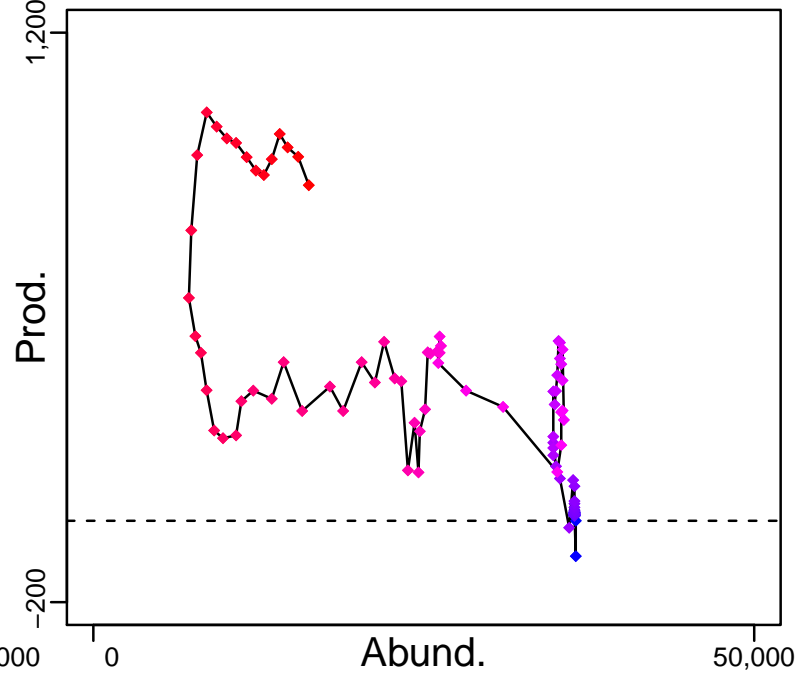
Kobe MGTpref (1915–2015–SISIMP2016)



Spawner Recruit (1915–2015–SISIMP2016)



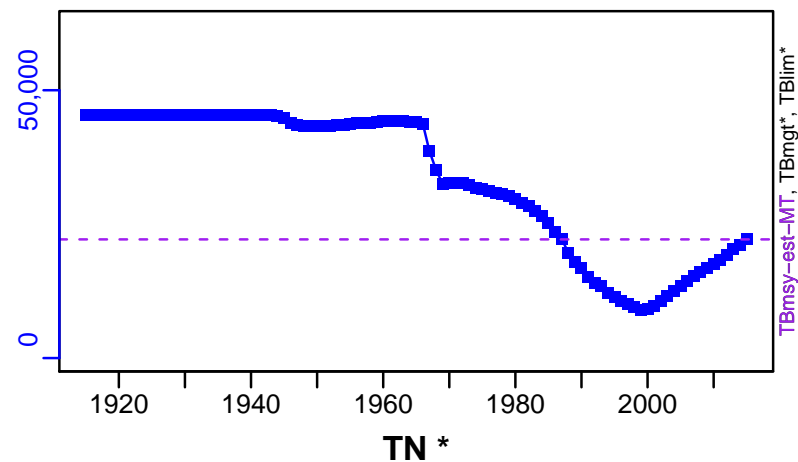
Production (1915–2015–SISIMP2016)



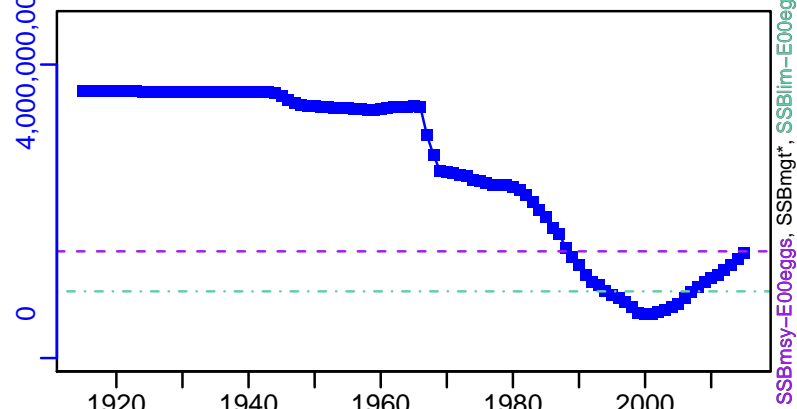
◆ Start Year ◆ End Year * No Data

Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

TB-MT (1915-2015-SISIMP2016)



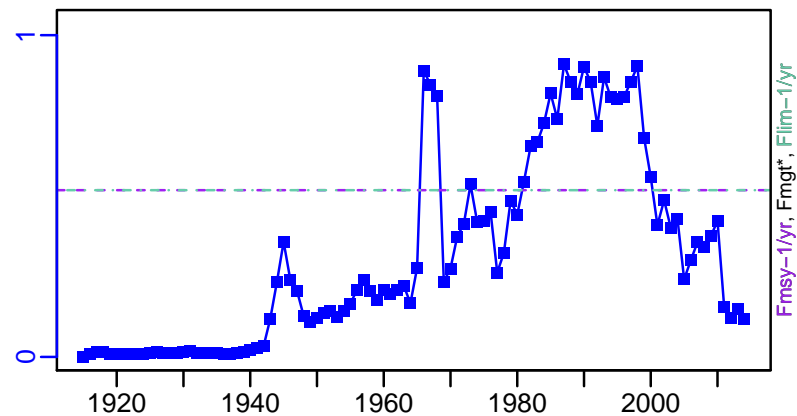
SSB-E00eggs (1915-2015-SISIMP2016)



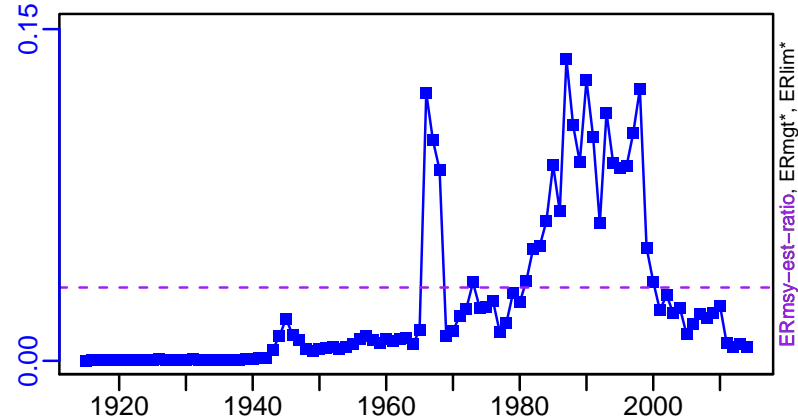
TN *



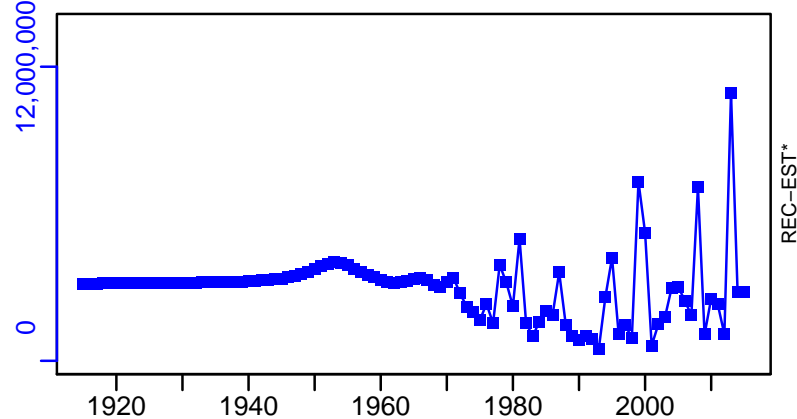
F-1/yr (1915-2015-SISIMP2016)



ER-calc-ratio (1915-2015-SISIMP2016)

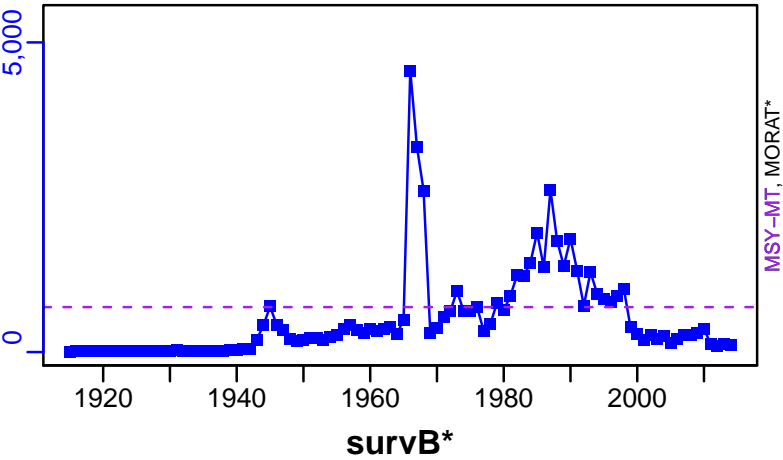


R-E00 (1915-2015-SISIMP2016)



Darkblotched rockfish Pacific Coast [DKROCKPCOAST]

TC-MT, TL*, RecC* (1915-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Dover sole Pacific Coast [DSOLEPCOAST]

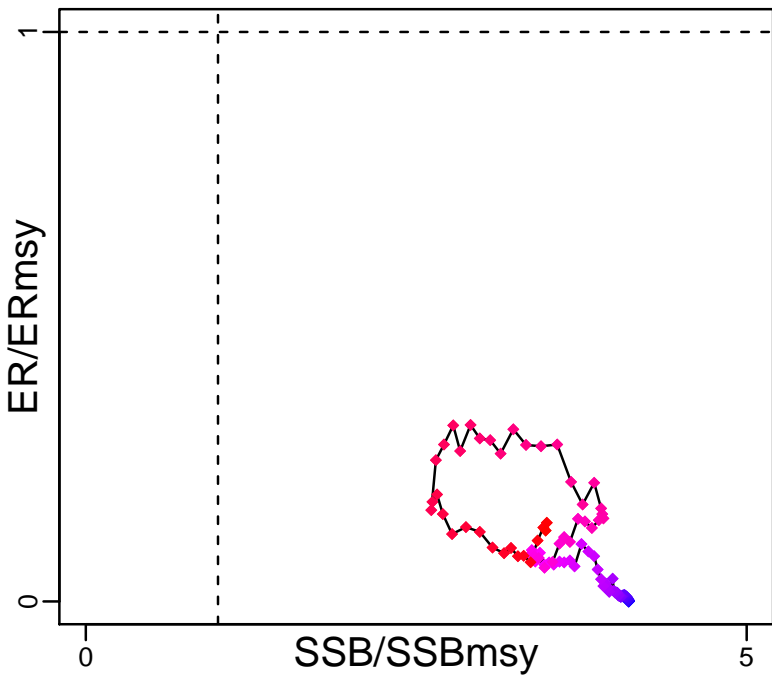
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	SWFSC-DSOLEPCOAST-1910-2011-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	114,398
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2011	0.13
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	821,271
SSB0	SSB0-MT	2011	469,866
MSY	MSY-MT	2011	34,757
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

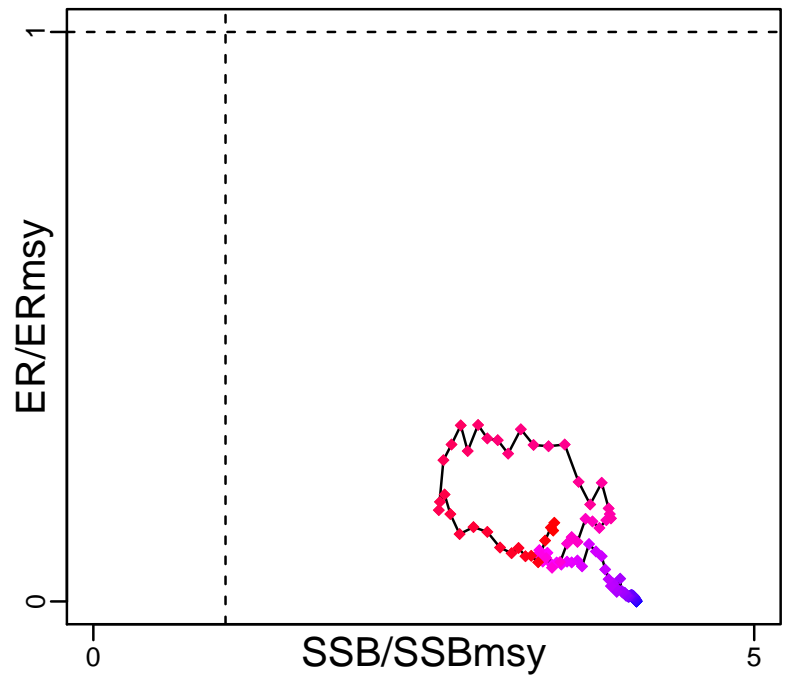
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	685,000	-	0+
SSB	SSB-MT	2011	394,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2011	376,000	-	0
F	F-1/yr	2011	0	Both	5+
ER	ER-ratio	2011	0	-	-
TC	TC-MT	2011	11,300		
TL	TL-MT	2011	10,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	3.44		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dover sole Pacific Coast [DSOLEPCOAST]

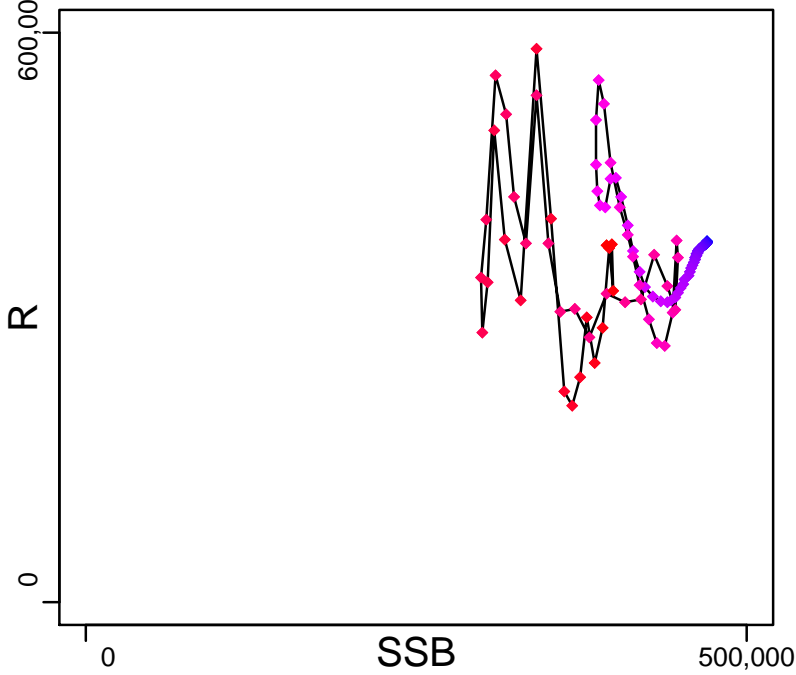
Kobe MSYpref (1910–2011–STACHURA)



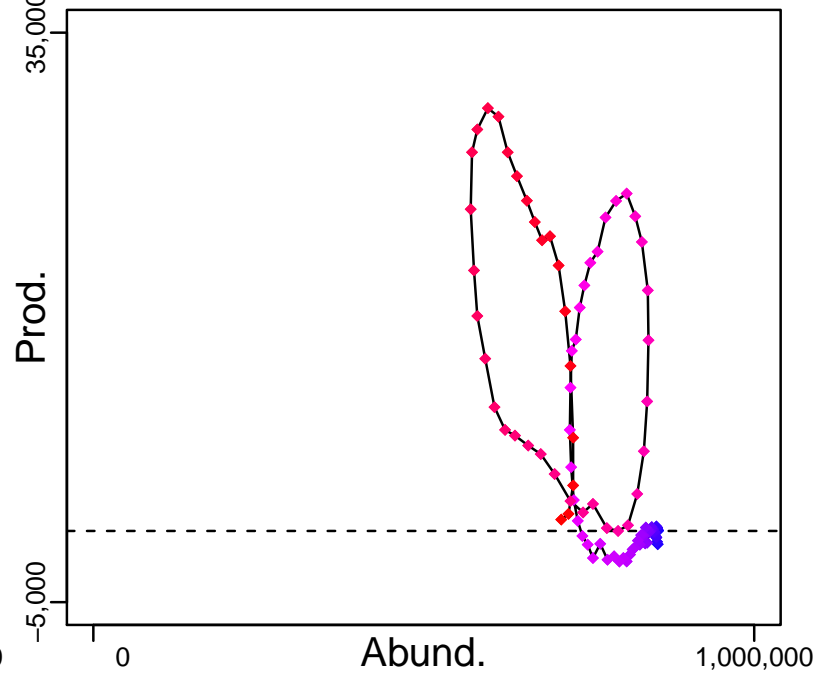
Kobe MGTpref (1910–2011–STACHURA)



Spawner Recruit (1910–2011–STACHURA)



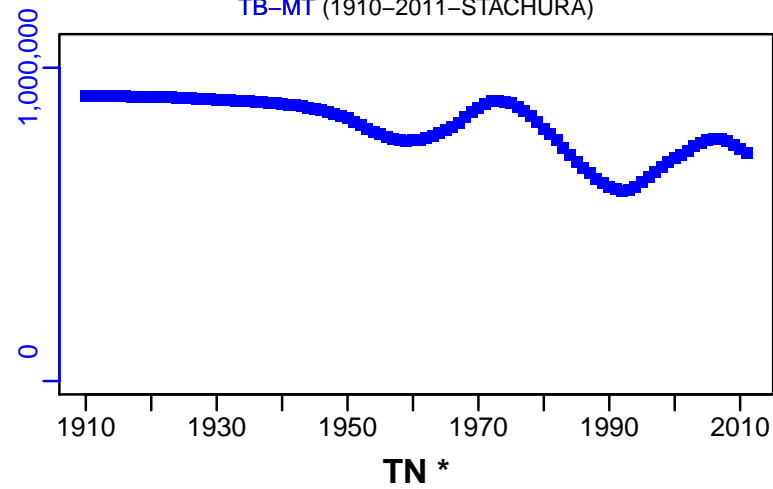
Production (1910–2011–STACHURA)



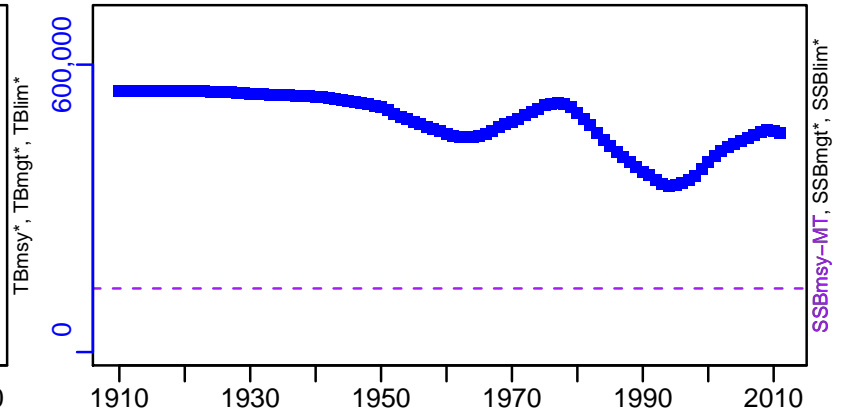
◆ Start Year ◆ End Year * No Data

Dover sole Pacific Coast [DSOLEPCOAST]

TB-MT (1910-2011-STACHURA)



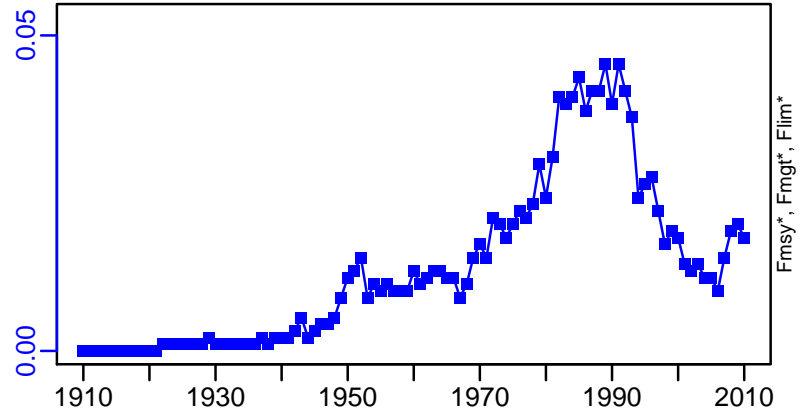
SSB-MT (1910-2011-STACHURA)



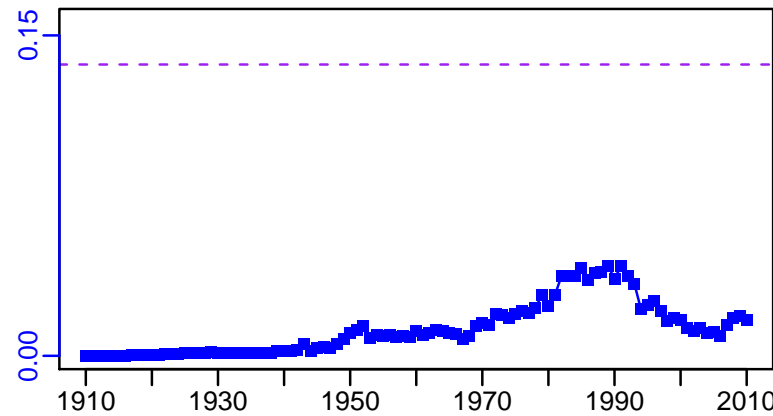
TN *



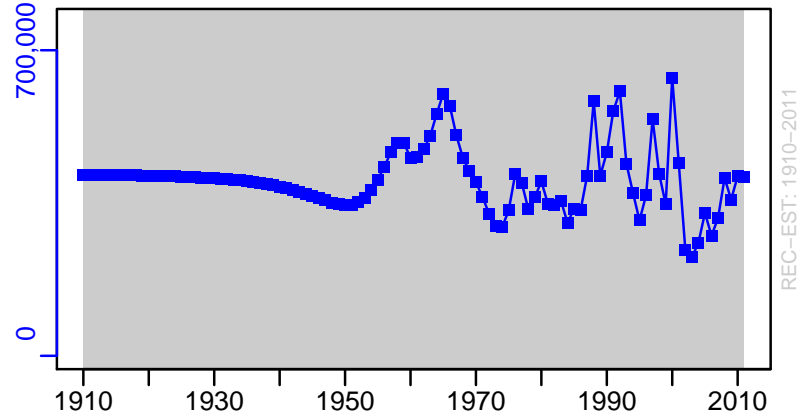
F-1/yr (1910-2011-STACHURA)



ER-ratio (1910-2011-STACHURA)



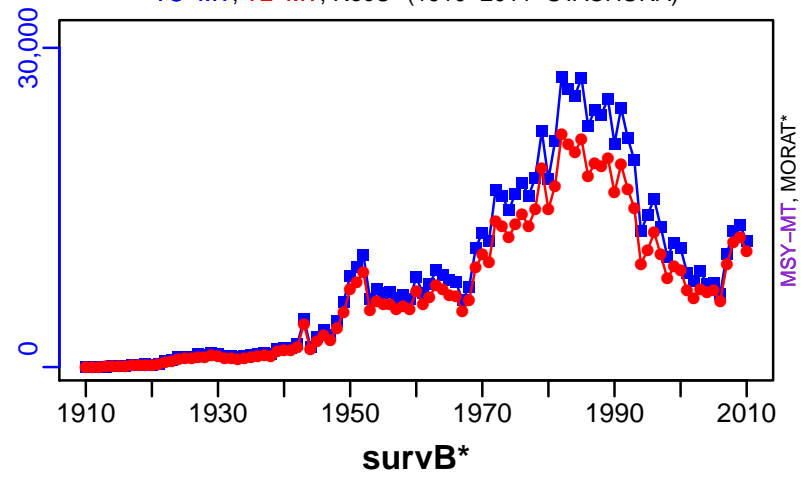
R-E00 (1910-2011-STACHURA)



Dover sole Pacific Coast [DSOLEPCOAST]

TC-MT, TL-MT, RecC* (1910-2011-STACHURA)

TAC*, Cpair*, Cadv*



EFFORT*



English sole Pacific Coast [ESOLEPCOAST]

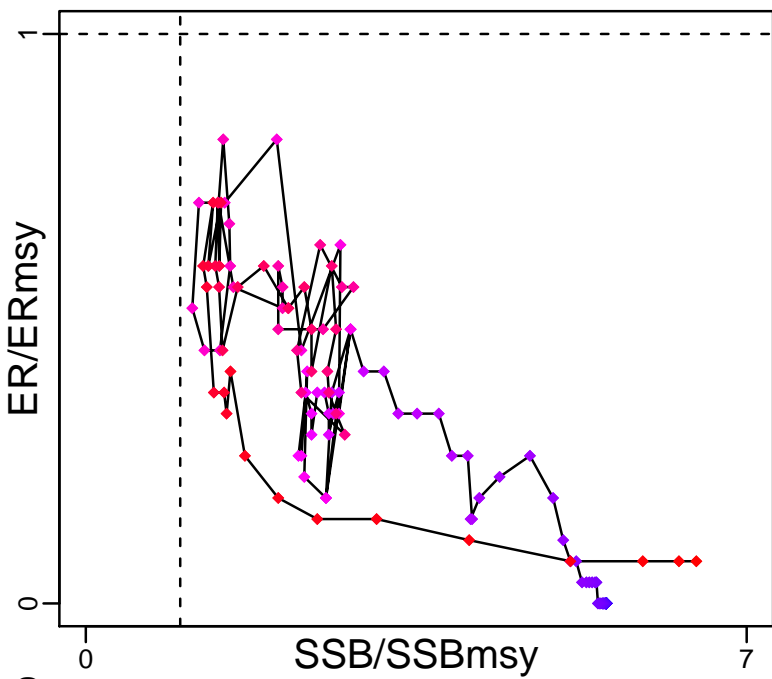
Metadata	
Scientific Name	Parophrys vetulus
Current Assess ID	NWFSC-ESOLEPCOAST-1876-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2007, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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	-	-	-

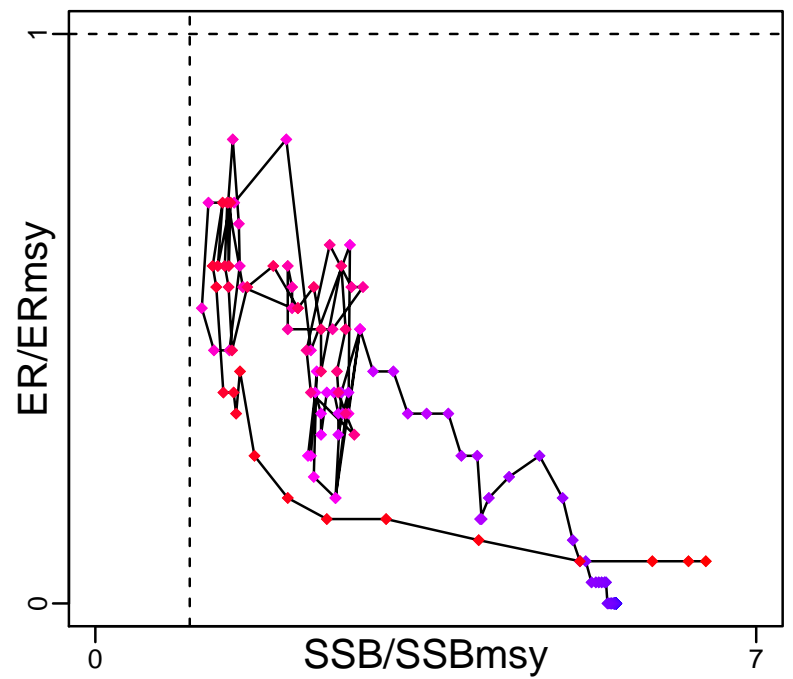
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	69,900	-	7.7+
SSB	SSB-MT	2007	41,900	Females	3+
TN	-	-	-	-	-
R	R-E00	2007	1.25×10^8	-	0
F	F-1/yr	2012	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	1080		
TL	TL-MT	2007	886		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	6.42		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.05		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.07		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

English sole Pacific Coast [ESOLEPCOAST]

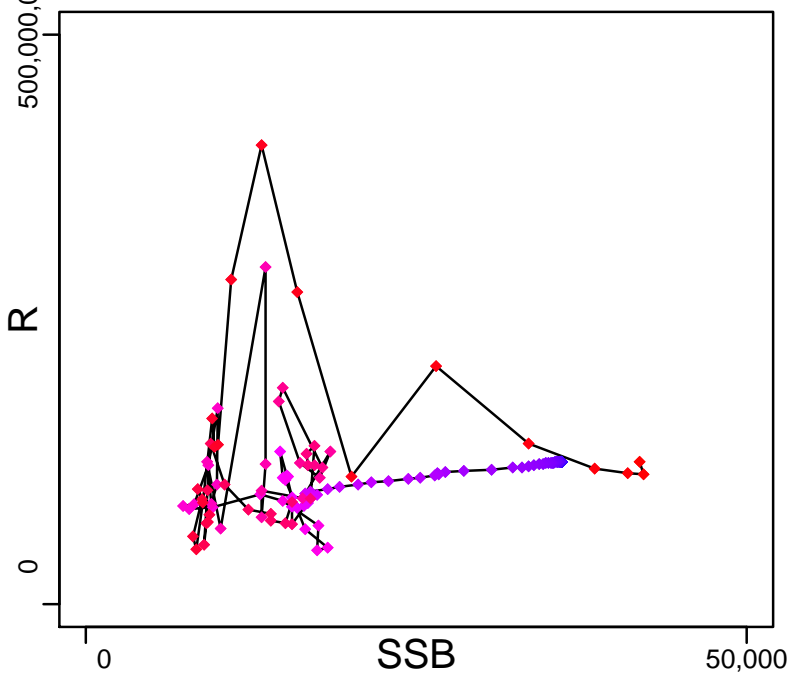
Kobe MSYpref (1876–2007–BRANCH)



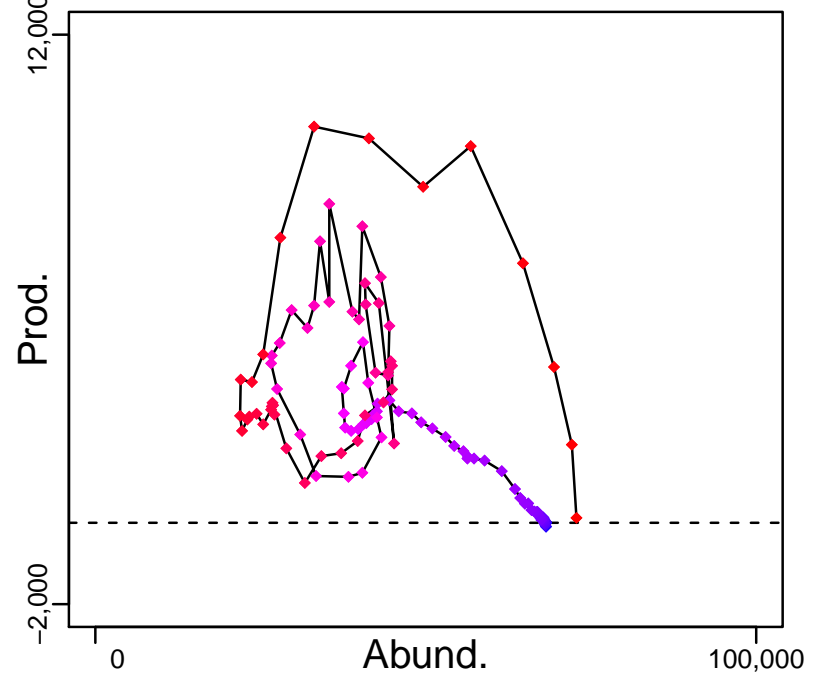
Kobe MGTpref (1876–2007–BRANCH)



Spawner Recruit (1876–2007–BRANCH)



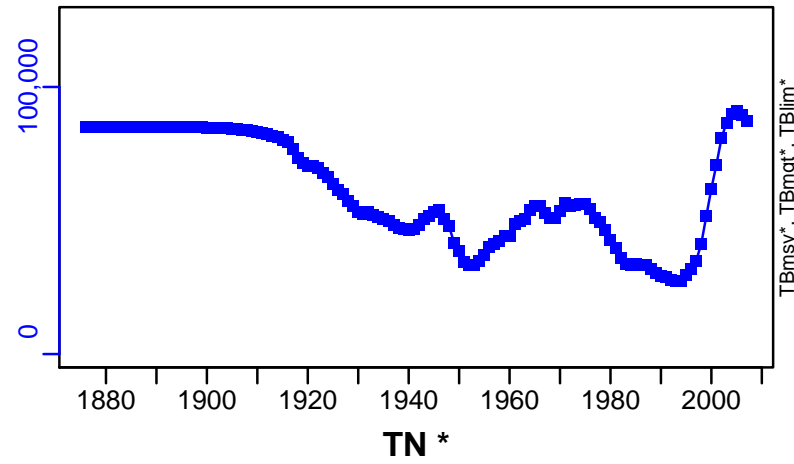
Production (1876–2007–BRANCH)



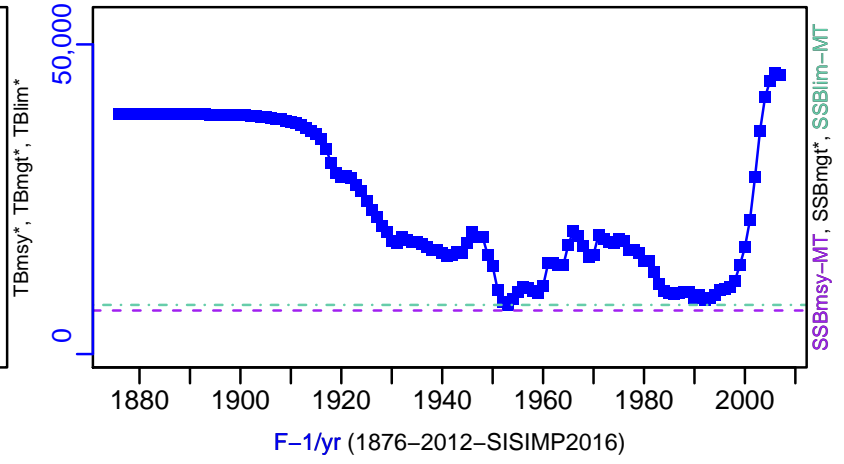
◆ Start Year ◆ End Year * No Data

English sole Pacific Coast [ESOLEPCOAST]

TB-MT (1876-2007-BRANCH)



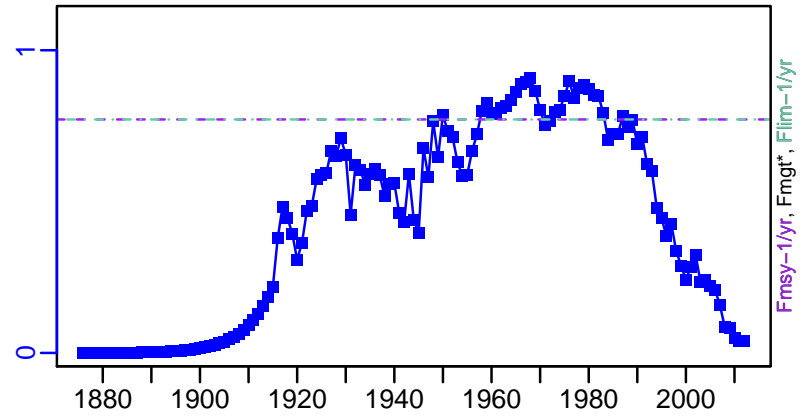
SSB-MT (1876-2007-BRANCH)



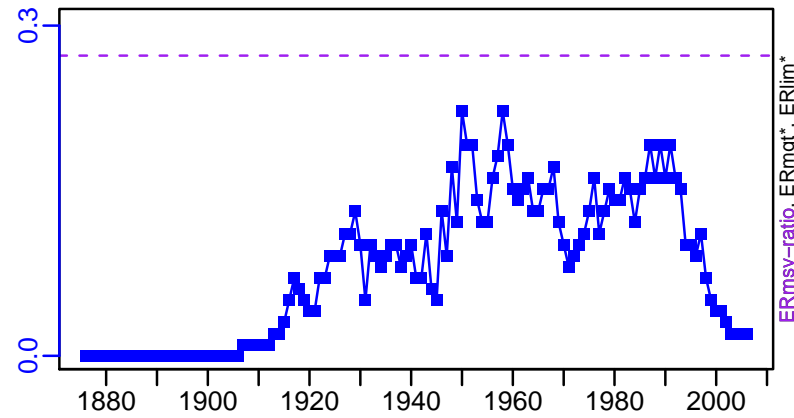
TN *



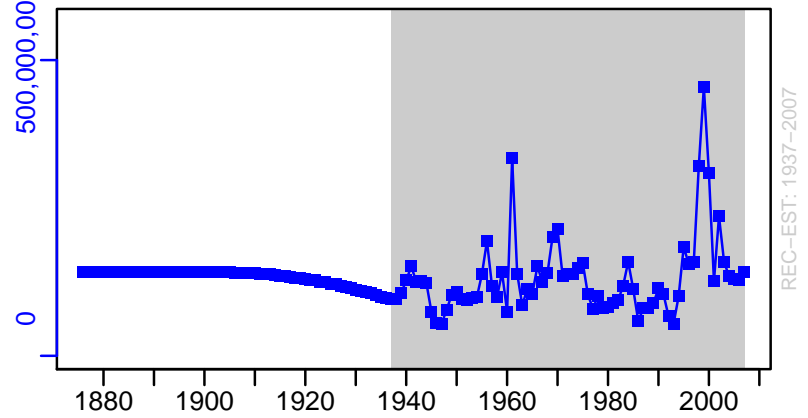
F-1/yr (1876-2012-SISIMP2016)



ER-ratio (1876-2007-BRANCH)



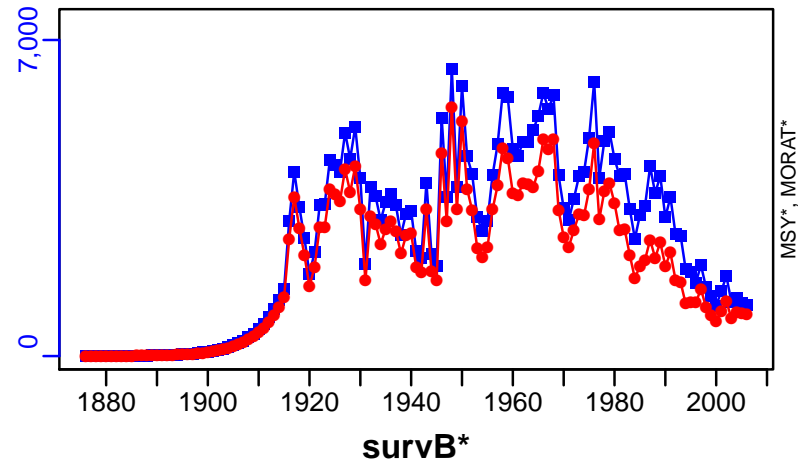
R-E00 (1876-2007-BRANCH)



English sole Pacific Coast [ESOLEPCOAST]

TC-MT, TL-MT, RecC* (1876-2007-BRANCH)

TAC*, Cpair*, Cadv*



EFFORT*



Gopher rockfish Southern Pacific Coast [GOPHERSPCOAST]

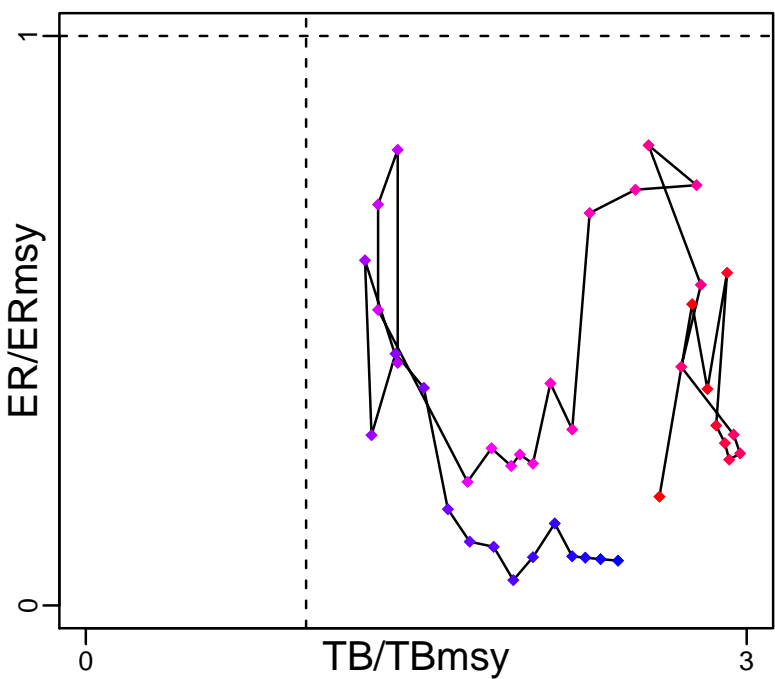
Metadata	
Scientific Name	Sebastes carnatus
Current Assess ID	SWFSC-GOPHERSPCOAST-1965-2005-STANTON
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

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

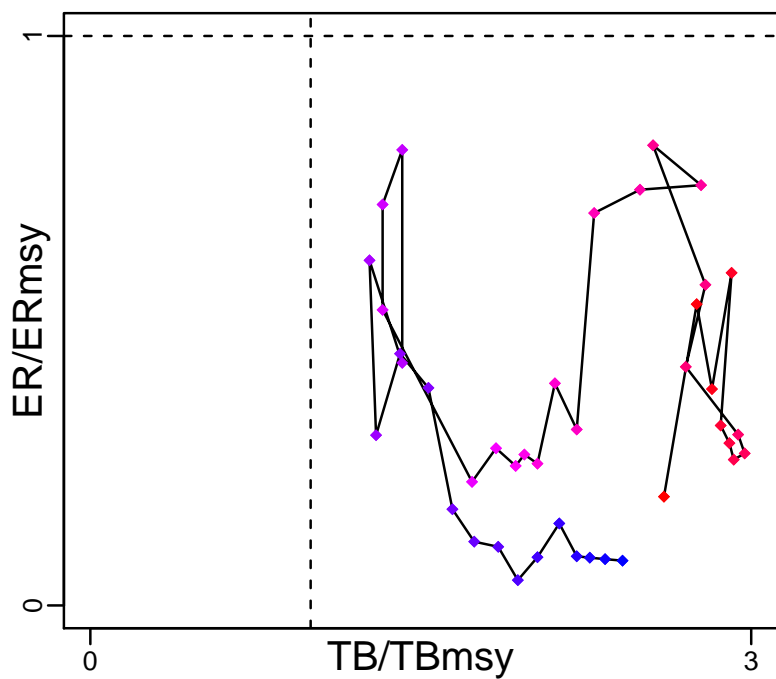
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2005	2570	-	1+
SSB	SSB-MT	2005	1900	Females	3+
TN	-	-	-	-	-
R	R-MT	2005	2730	-	0
F	-	-	-	-	-
ER	ER-ratio	2005	0	-	-
TC	TC-MT	2005	50.3		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2005	2.54		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2005	0.19		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Gopher rockfish Southern Pacific Coast [GOPHERSPCOAST]

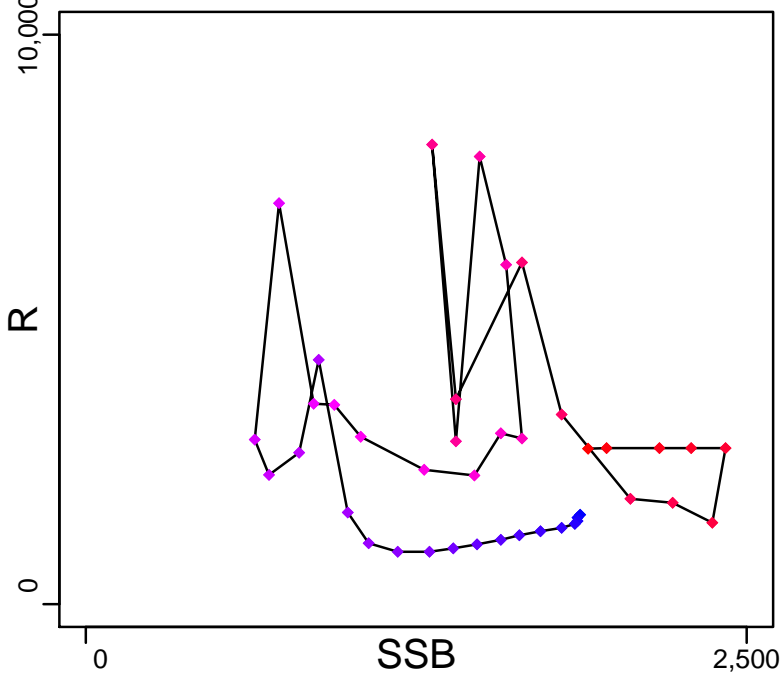
Kobe MSYpref (1965–2005–STANTON)



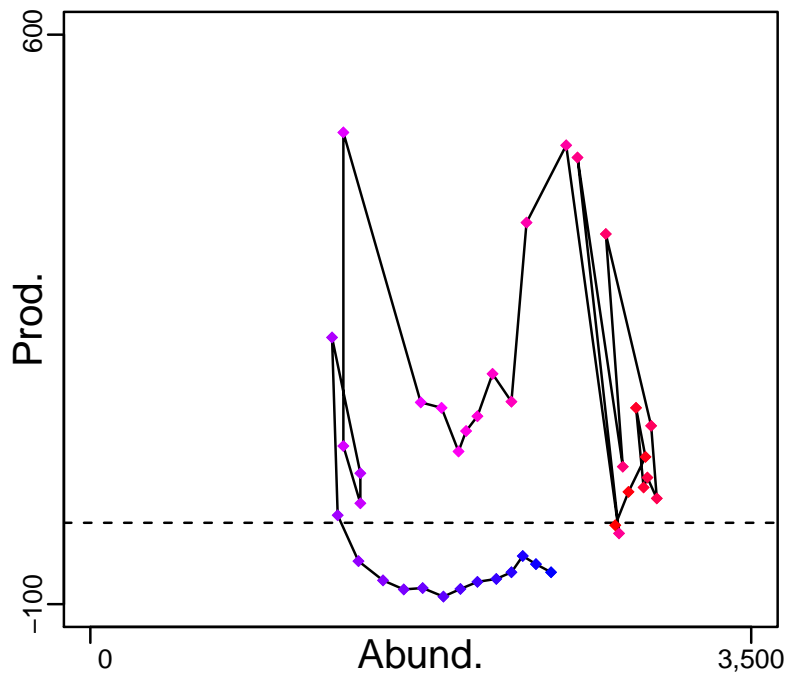
Kobe MGTpref (1965–2005–STANTON)



Spawner Recruit (1965–2005–STANTON)



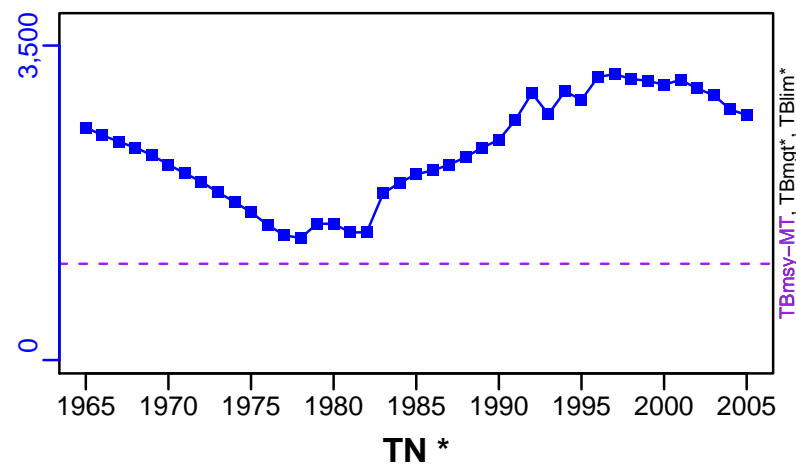
Production (1965–2005–STANTON)



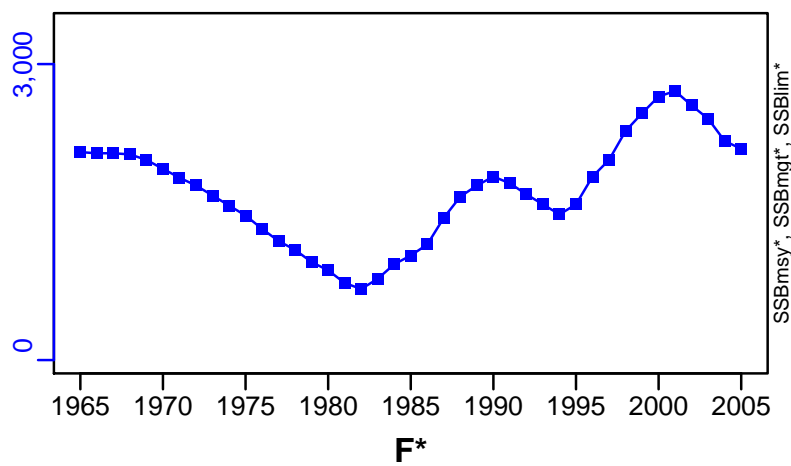
◆ Start Year ◆ End Year * No Data

Gopher rockfish Southern Pacific Coast [GOPHERSPCOAST]

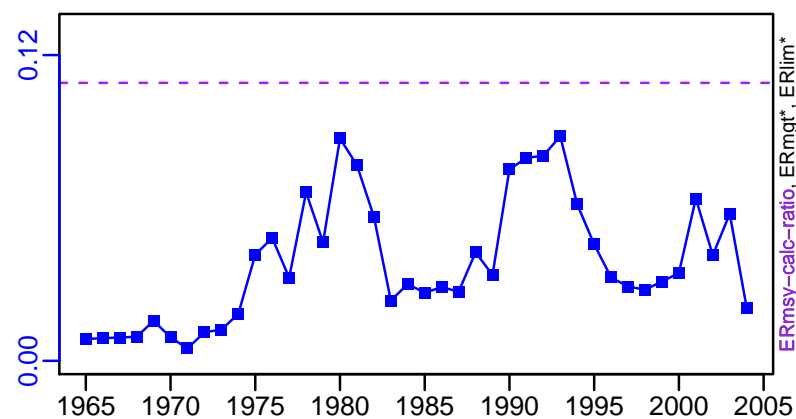
TB-MT (1965–2005–STANTON)



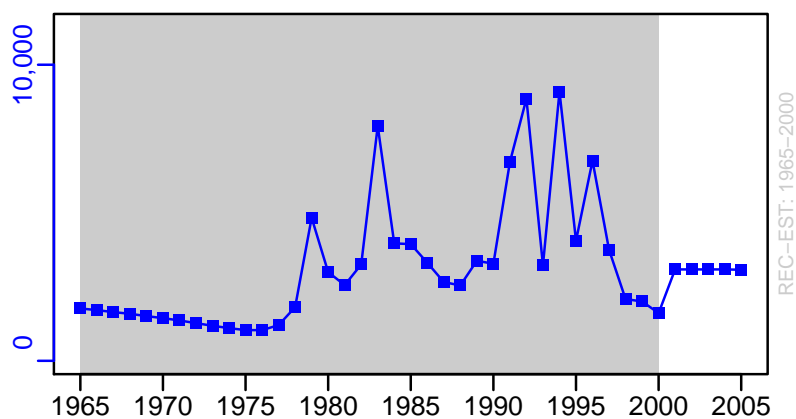
SSB-MT (1965–2005–STANTON)



ER-ratio (1965–2005–STANTON)

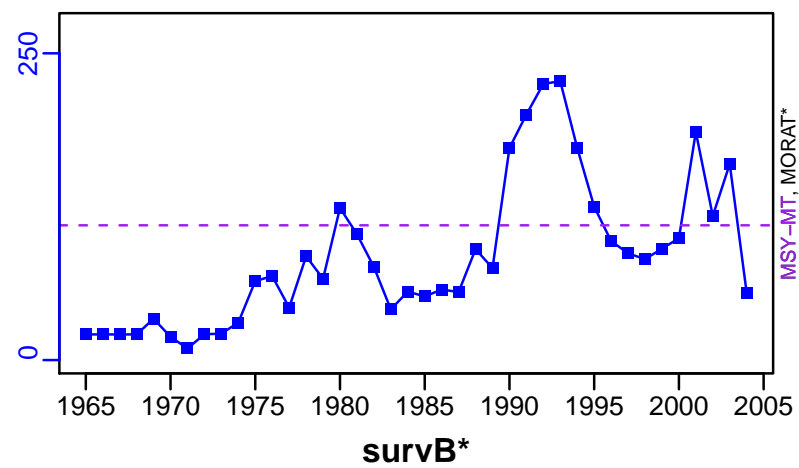


R-MT (1965–2005–STANTON)



Gopher rockfish Southern Pacific Coast [GOPHERSPCOAST]

TC-MT, TL*, RecC* (1965-2005-STANTON)



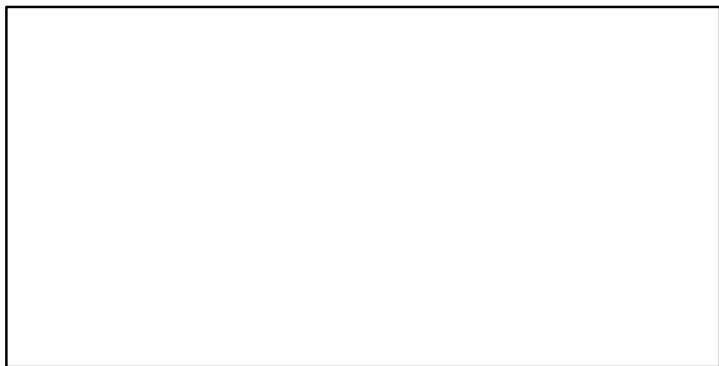
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

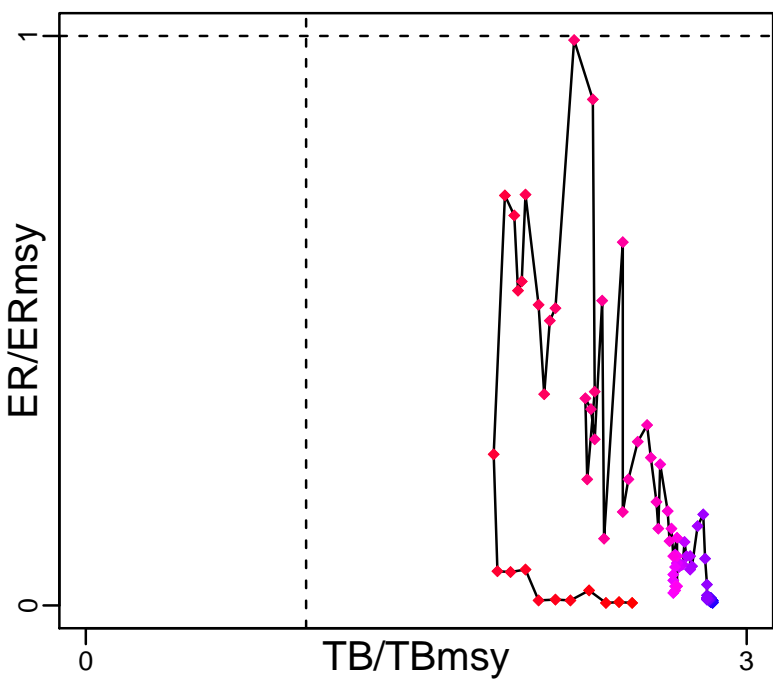
Metadata	
Scientific Name	Sebastes elongatus
Current Assess ID	PFMC-GRNSTROCKPCOAST-1916-2009-STANTON
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2009	11,774
SSBmsy	SSBmsy-E00eggs	2009	2.039×10^9
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2009	0.07
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2009	803
M	M-1/yr	2009	0.08
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

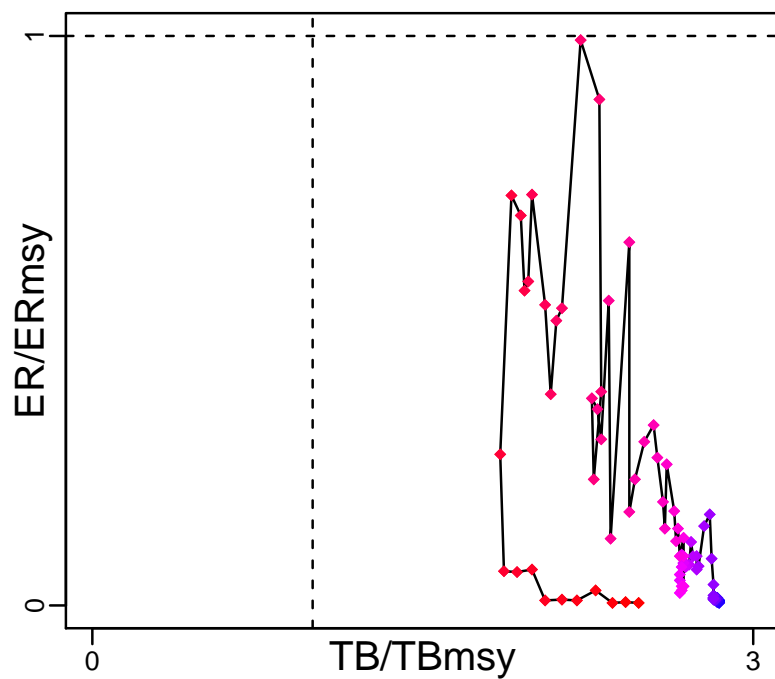
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	29,200	-	2+
SSB	SSB-E00eggs	2009	5.74×10^9	Females	-
TN	-	-	-	-	-
R	R-E00	2009	14,700	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	9.2		
TL	TL-MT	2009	3.39		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2009	2.48		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2009	2.82		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

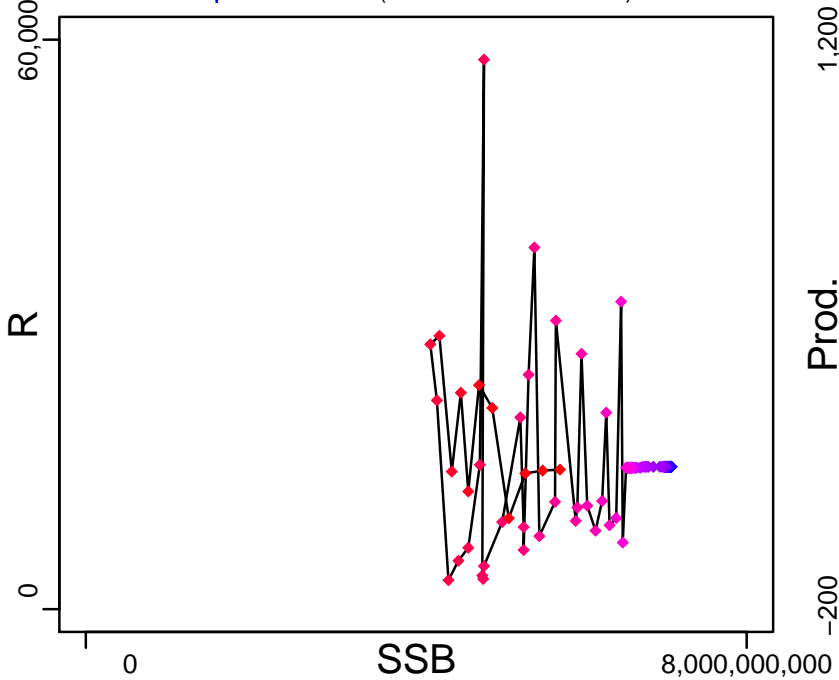
Kobe MSYpref (1916–2009–STANTON)



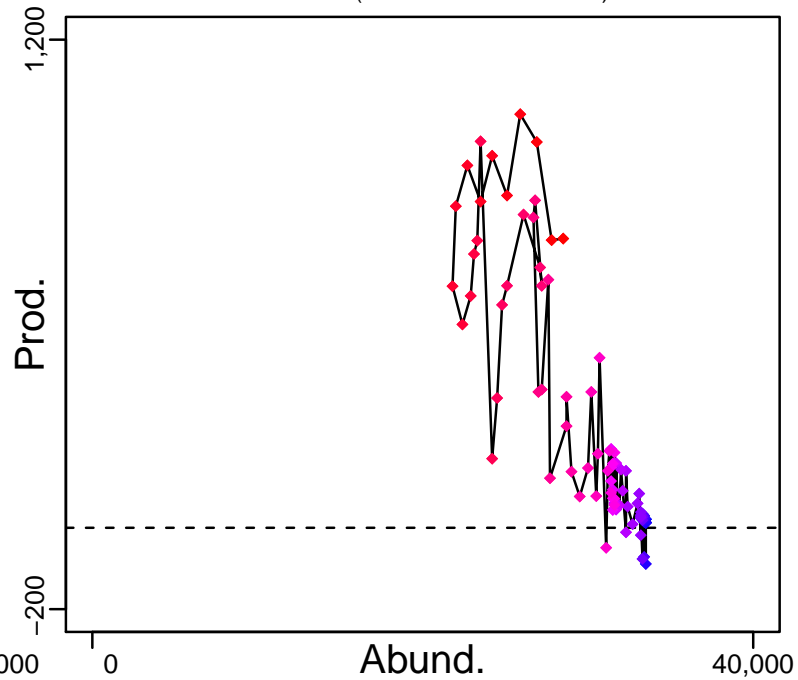
Kobe MGTpref (1916–2009–STANTON)



Spawner Recruit (1916–2009–STANTON)



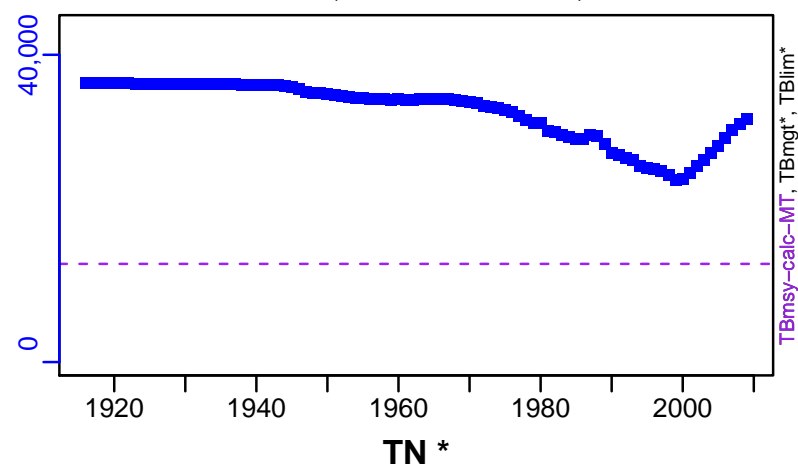
Production (1916–2009–STANTON)



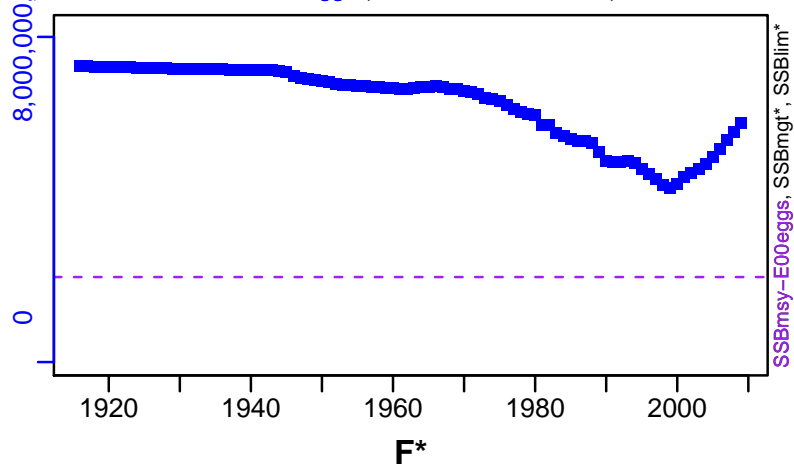
◆ Start Year ◆ End Year * No Data

Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

TB-MT (1916-2009-STANTON)



SSB-E00eggs (1916-2009-STANTON)



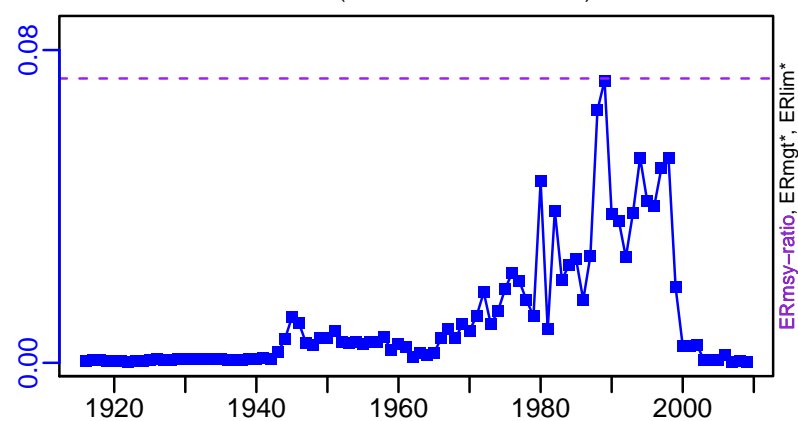
TN *



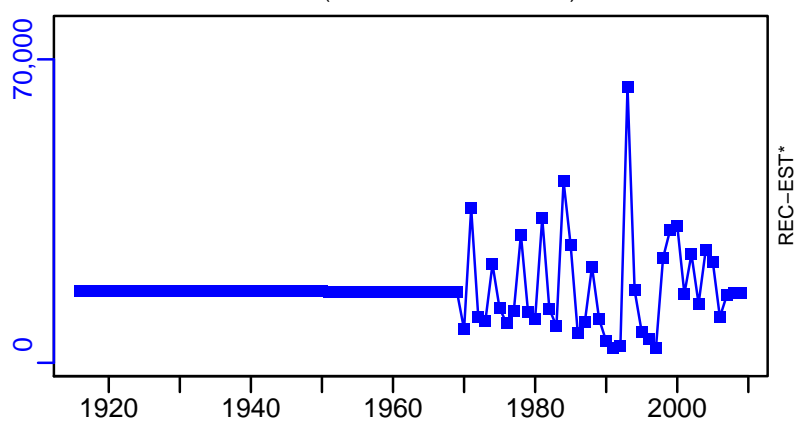
F*



ER-ratio (1916-2009-STANTON)



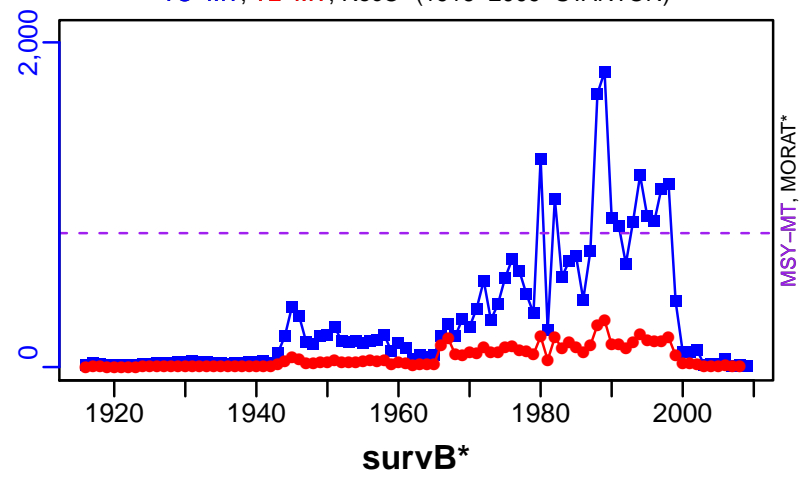
R-E00 (1916-2009-STANTON)



Greenstriped rockfish Pacific Coast [GRNSTROCKPCOAST]

TC-MT, TL-MT, RecC* (1916-2009-STANTON)

TAC*, Cpair*, Cadv*



EFFORT*



Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]

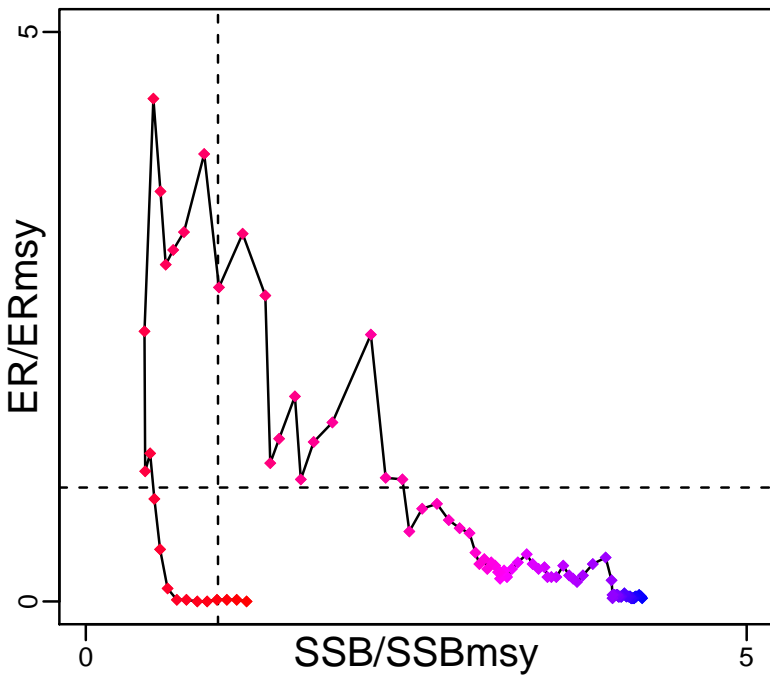
Metadata	
Scientific Name	Sebastes chlorostictus
Current Assess ID	SWFSC-GRSPROCKNCAL-1916-2010-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2010

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

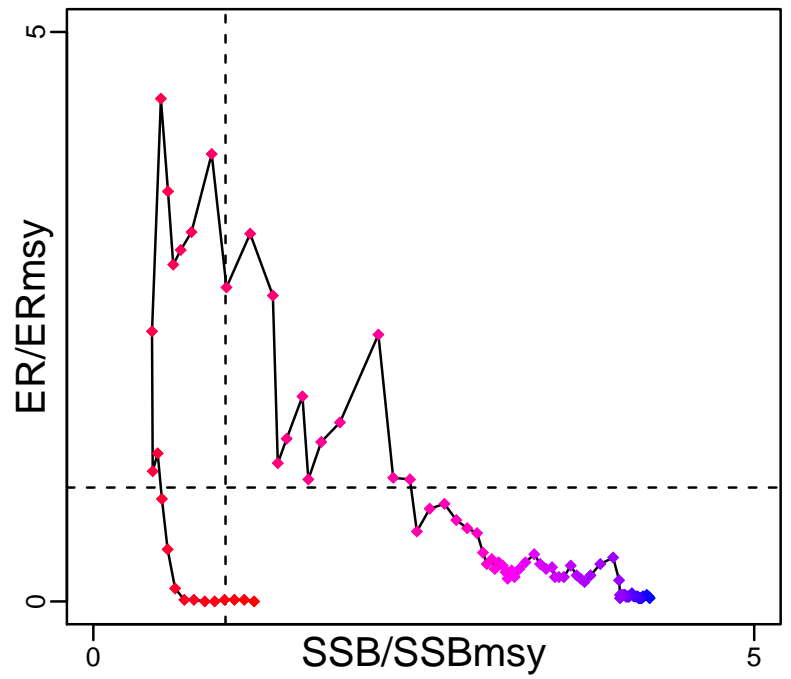
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	1190	-	0+
SSB	SSB-E00eggs	2010	1.63×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	391,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	0.4		
TL	TL-MT	2010	0.37		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2010	1.22		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]

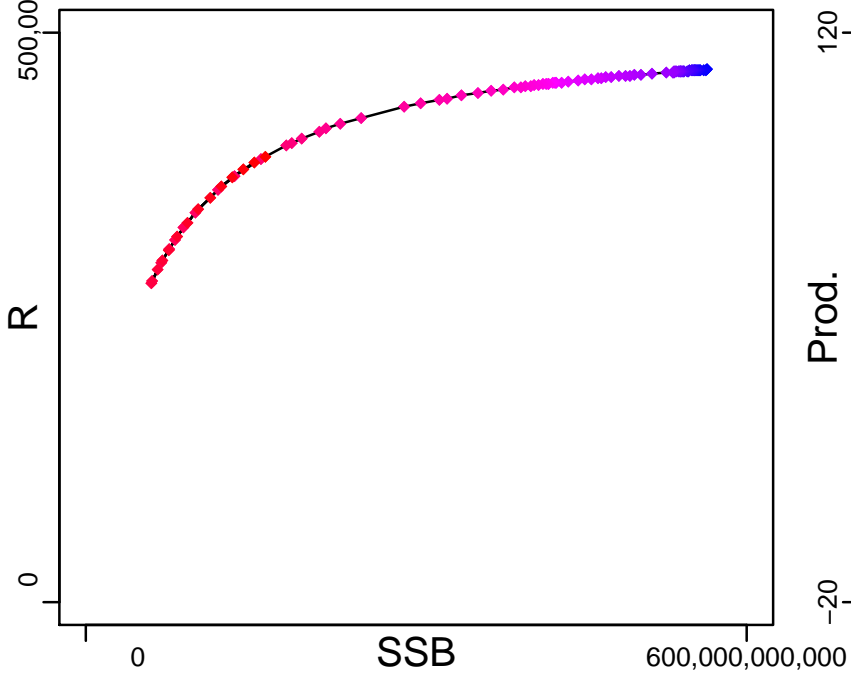
Kobe MSYpref (1916–2010–STACHURA)



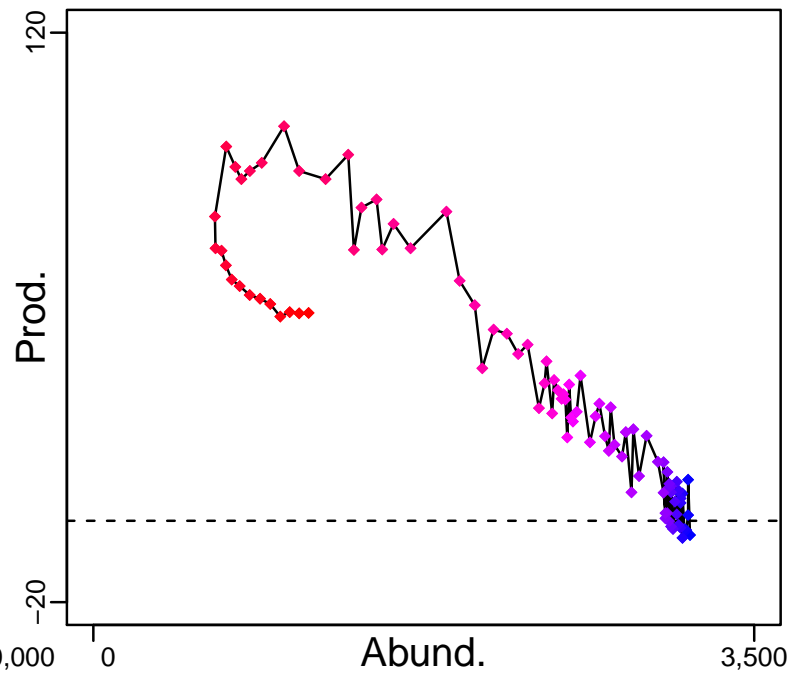
Kobe MGTpref (1916–2010–STACHURA)



Spawner Recruit (1916–2010–STACHURA)



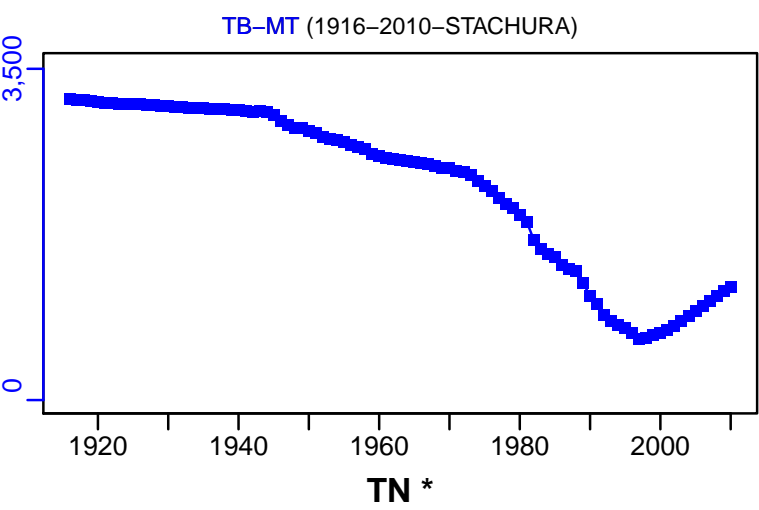
Production (1916–2010–STACHURA)



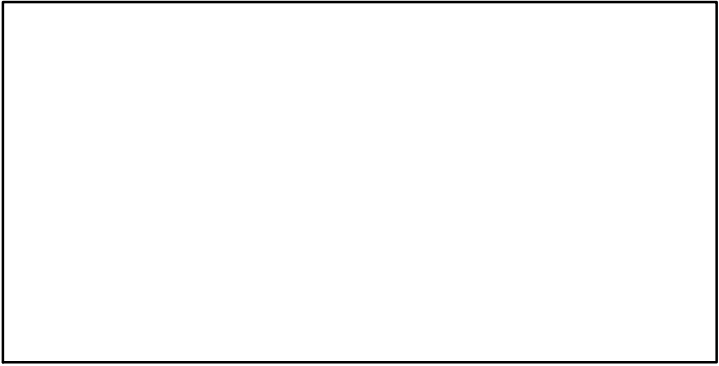
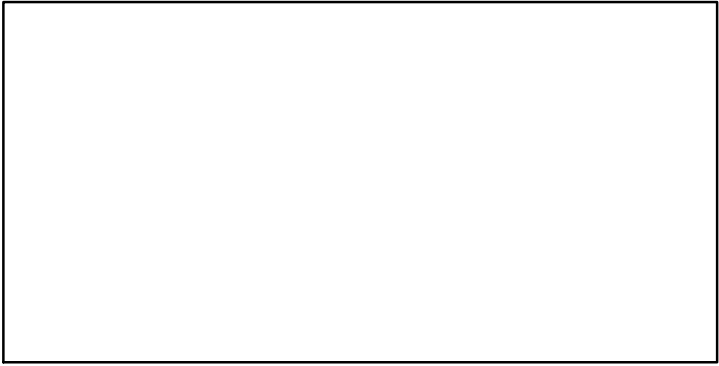
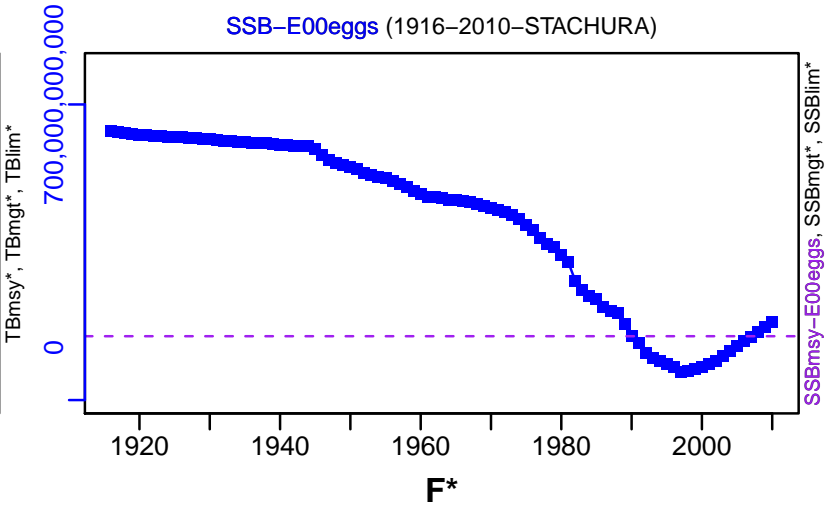
◆ Start Year ◆ End Year * No Data

Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]

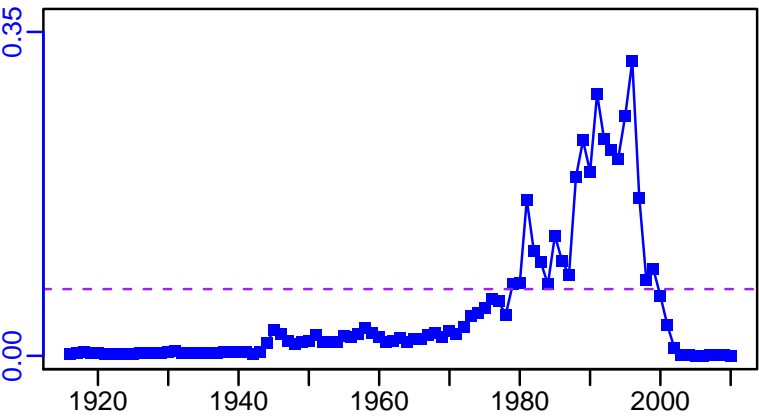
TB-MT (1916-2010-STACHURA)



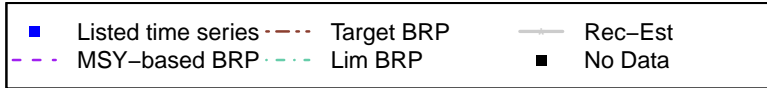
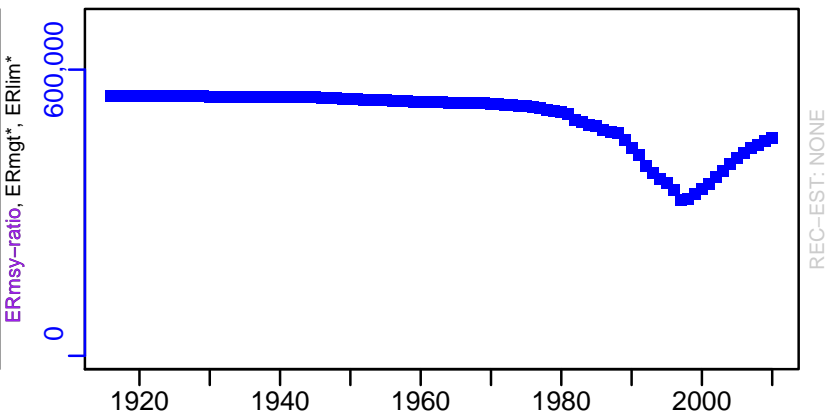
SSB-E00eggs (1916-2010-STACHURA)



ER-ratio (1916-2010-STACHURA)



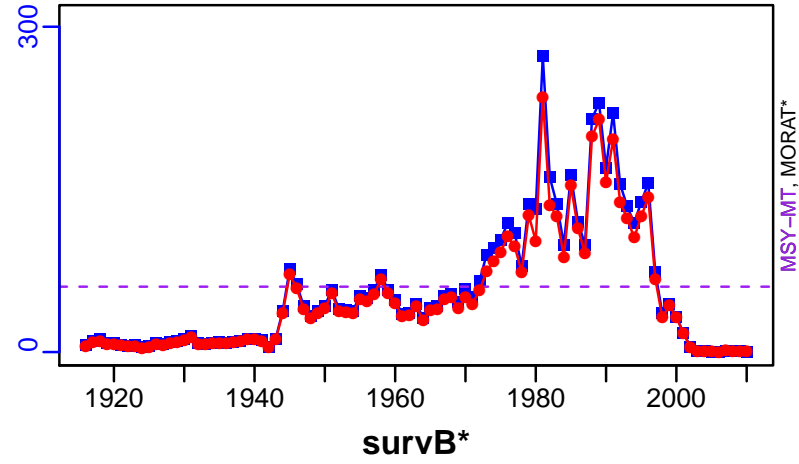
R-E00 (1916-2010-STACHURA)



Greenspotted rockfish Pacific Coast North [GRSPROCKNCAL]

TC-MT, TL-MT, RecC* (1916-2010-STACHURA)

TAC*, Cpair*, Cadv*



EFFORT*



Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]

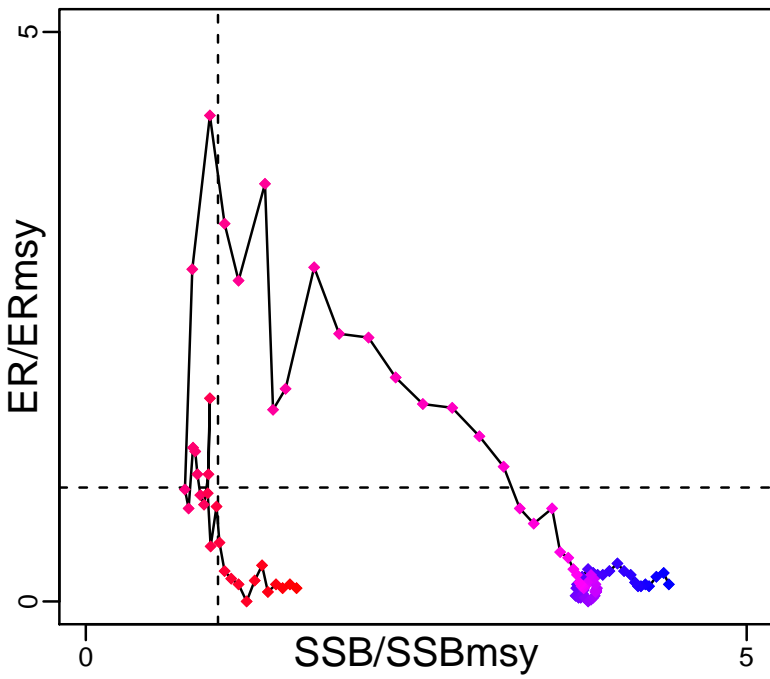
Metadata	
Scientific Name	Sebastes chlorostictus
Current Assess ID	SWFSC-GRSPROCKSCAL-1916-2010-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2010

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

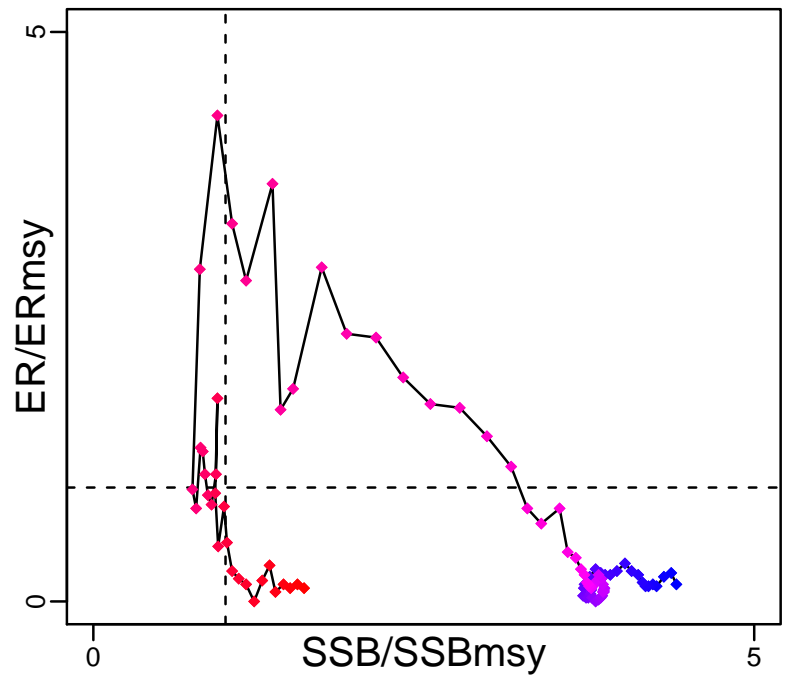
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	1920	-	0+
SSB	SSB-E00eggs	2010	2.87×10^{11}	Females	-
TN	-	-	-	-	-
R	R-E00	2010	681,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	11.3		
TL	TL-MT	2010	11.1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2010	1.59		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]

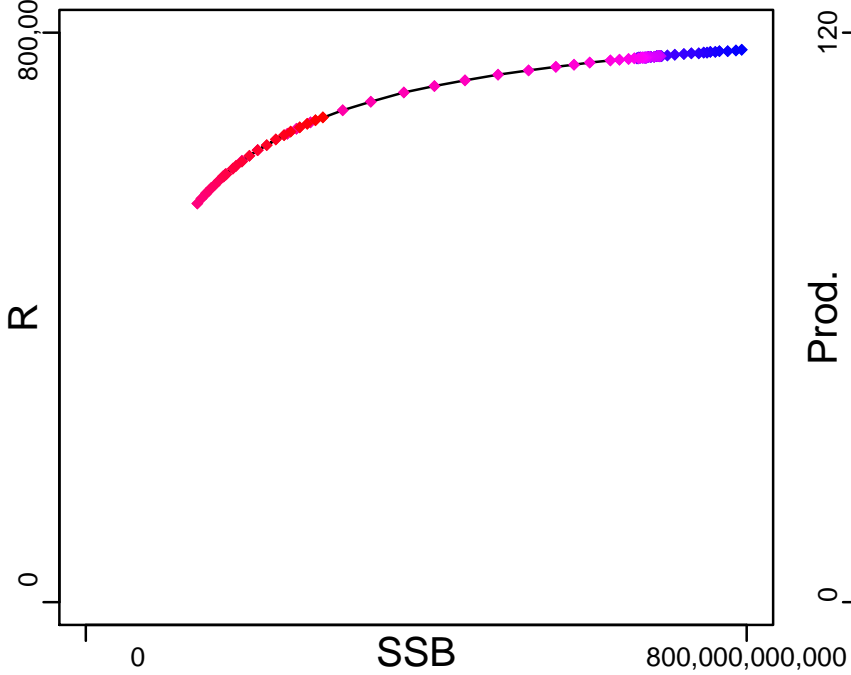
Kobe MSYpref (1916–2010–STACHURA)



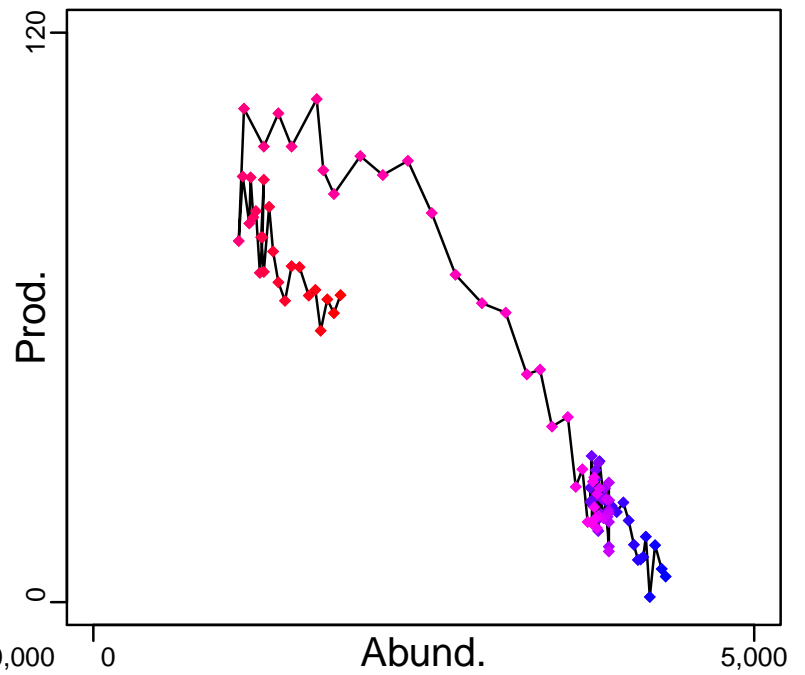
Kobe MGTpref (1916–2010–STACHURA)



Spawner Recruit (1916–2010–STACHURA)



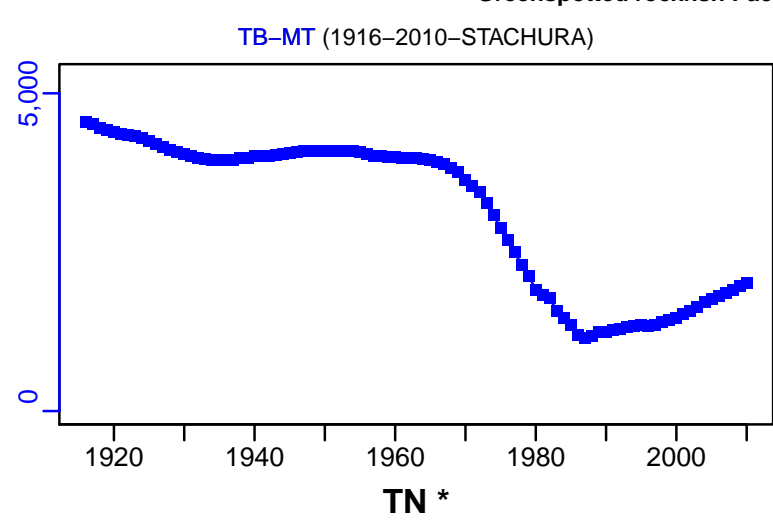
Production (1916–2010–STACHURA)



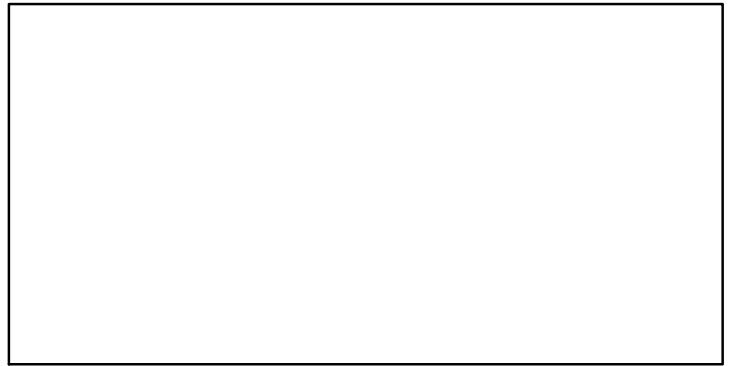
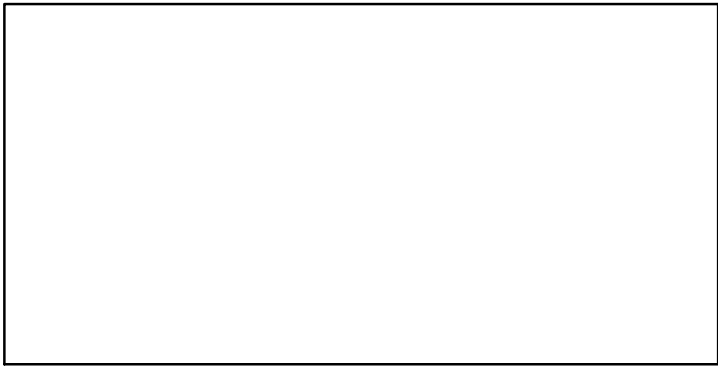
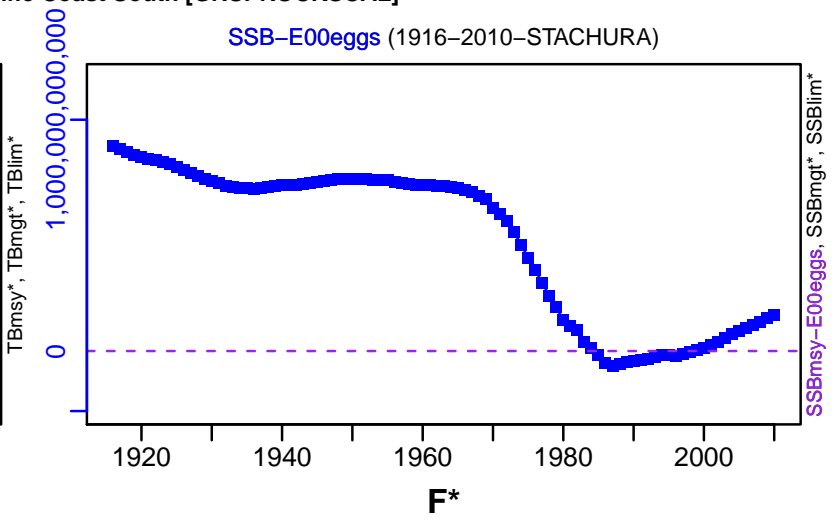
◆ Start Year ◆ End Year * No Data

Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]

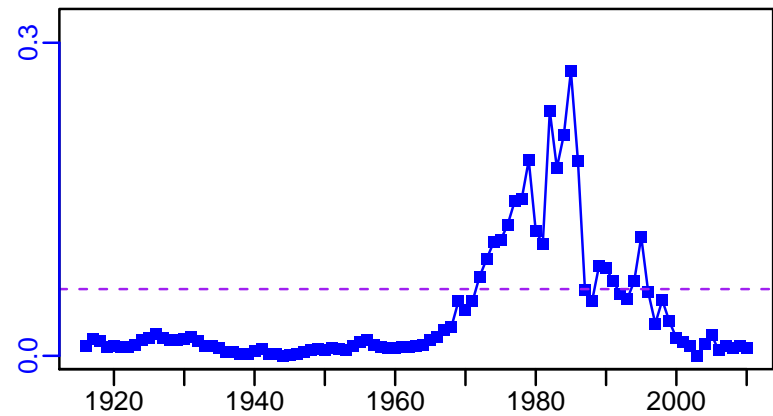
TB-MT (1916-2010-STACHURA)



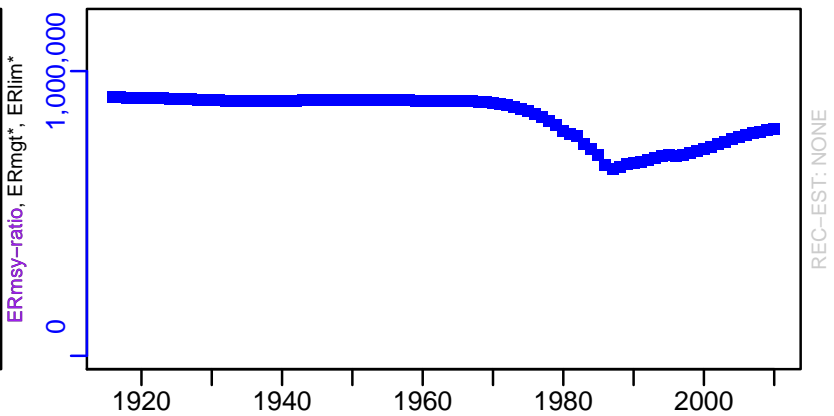
SSB-E00eggs (1916-2010-STACHURA)



ER-ratio (1916-2010-STACHURA)



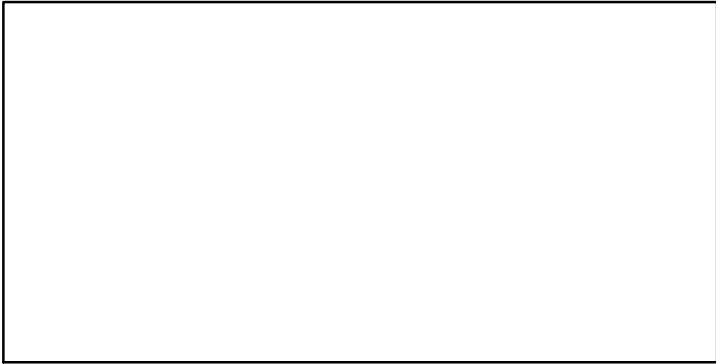
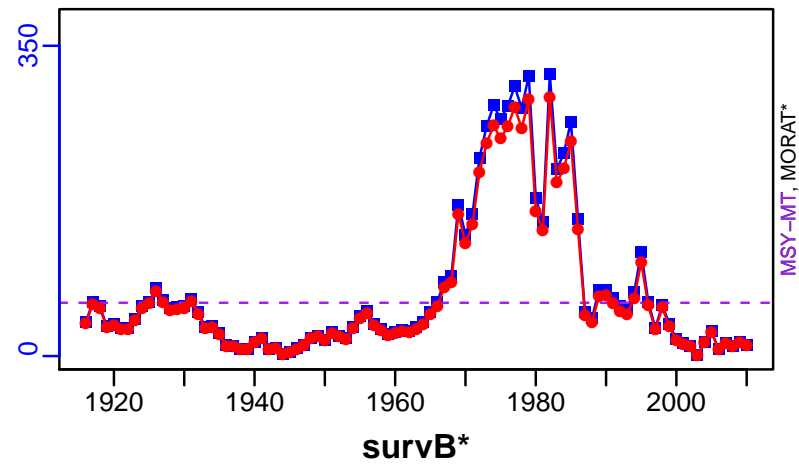
R-E00 (1916-2010-STACHURA)



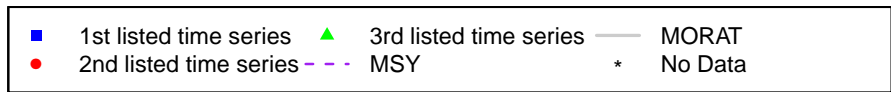
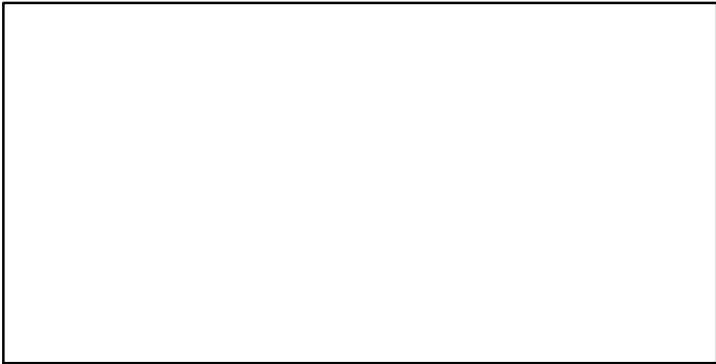
Greenspotted rockfish Pacific Coast South [GRSPROCKSCAL]

TC-MT, TL-MT, RecC* (1916-2010-STACHURA)

TAC*, Cpair*, Cadv*



EFFORT*



Kelp greenling Oregon Coast [KELPGREENLINGORECOAST]

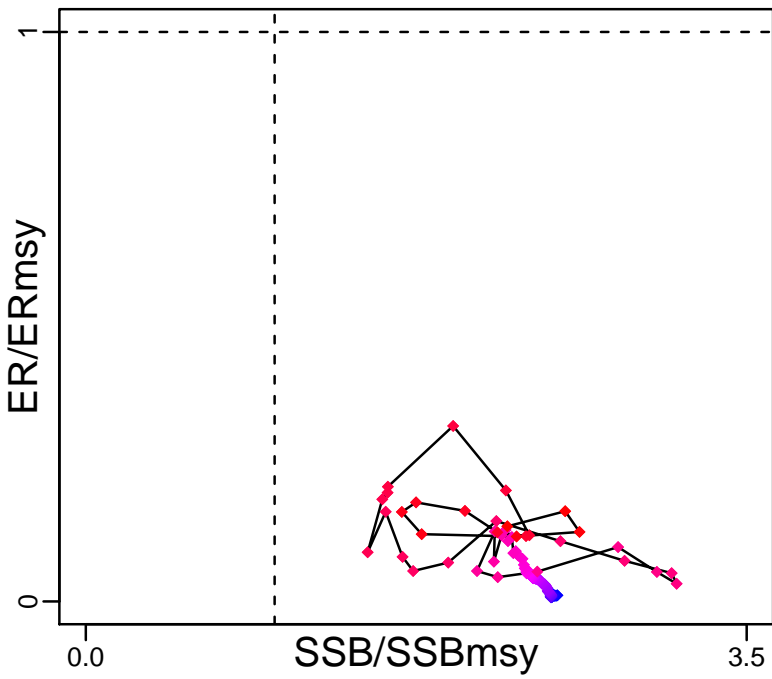
Metadata	
Scientific Name	Hexagrammos decagrammus
Current Assess ID	NWFSC-KELPGREENLINGORECOAST-1915-2015-SISIMP2016
Area	Oregon Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	159
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2005	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	1295
SSB0	SSB0-MT	2005	321
MSY	MSY-MT	2015	130
M	M-1/yr	2005	0.26
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	99
Flim	-	-	-
ERlim	-	-	-

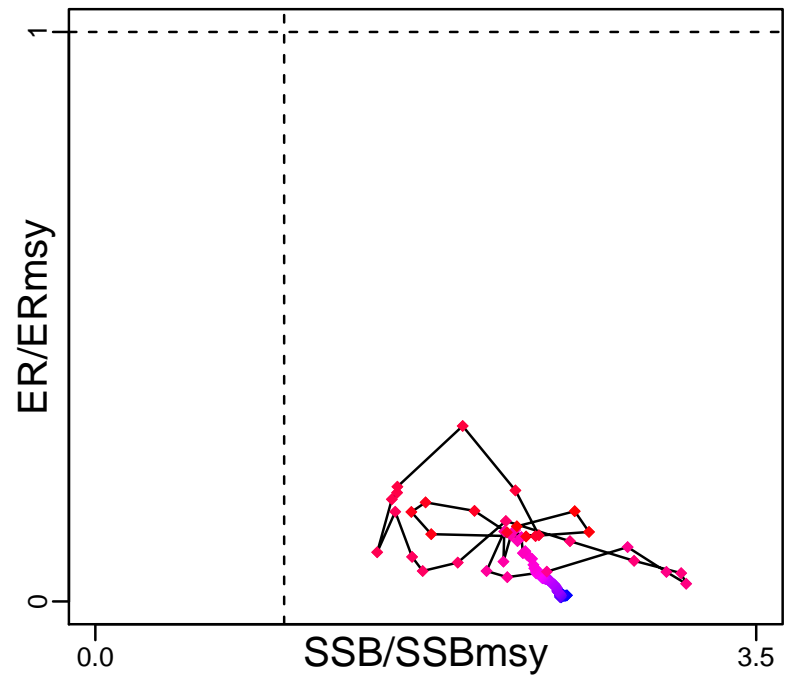
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1130	-	0+
SSB	SSB-MT	2015	316	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1,410,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	33.4		
TL	TL-MT	2005	51.8		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.99		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-pr-ratio	2005	0.59		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kelp greenling Oregon Coast [KELPGREENLINGORECOAST]

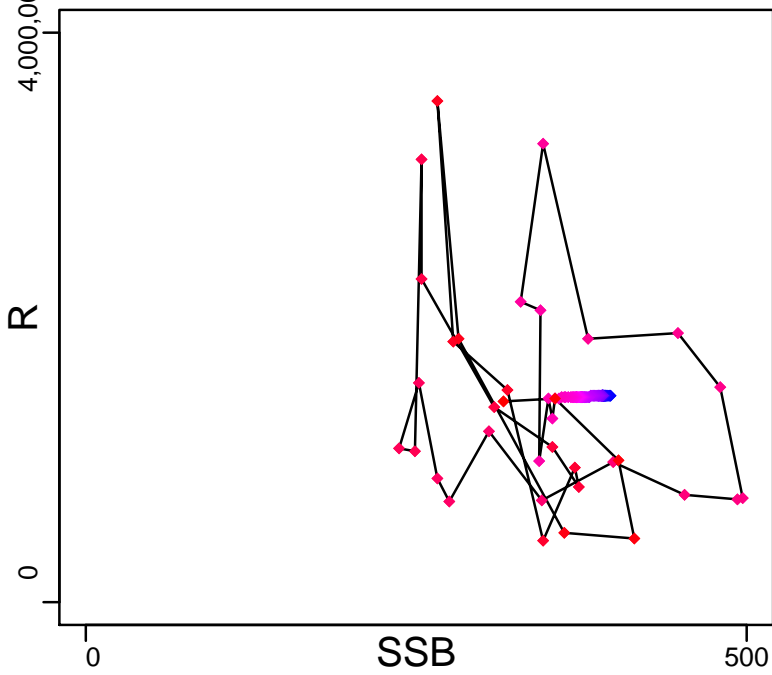
Kobe MSYpref (1915–2015–SISIMP2016)



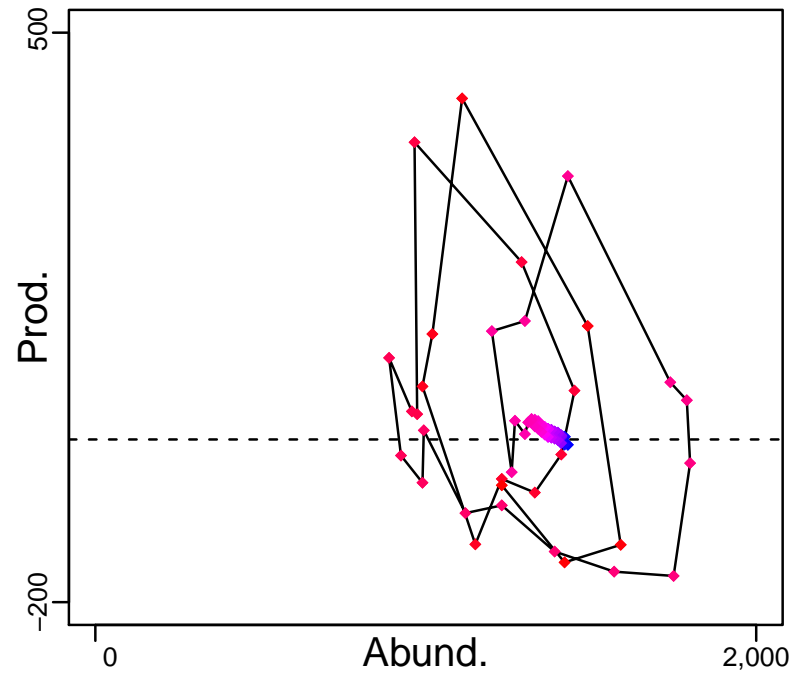
Kobe MGTpref (1915–2015–SISIMP2016)



Spawner Recruit (1915–2015–SISIMP2016)



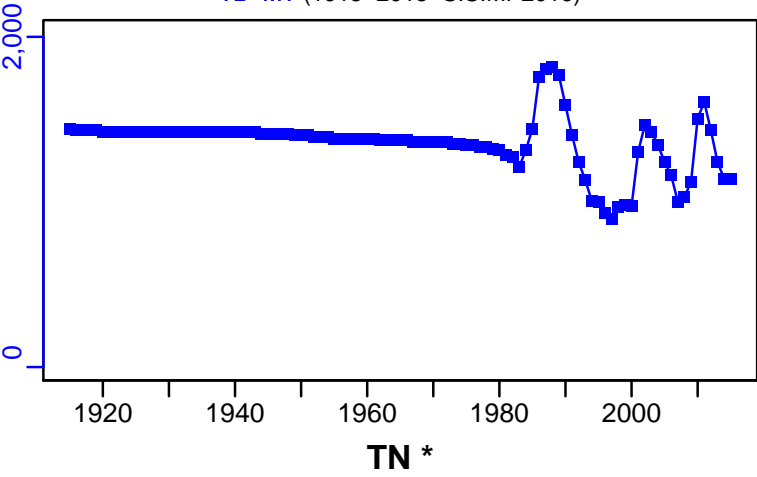
Production (1915–2015–SISIMP2016)



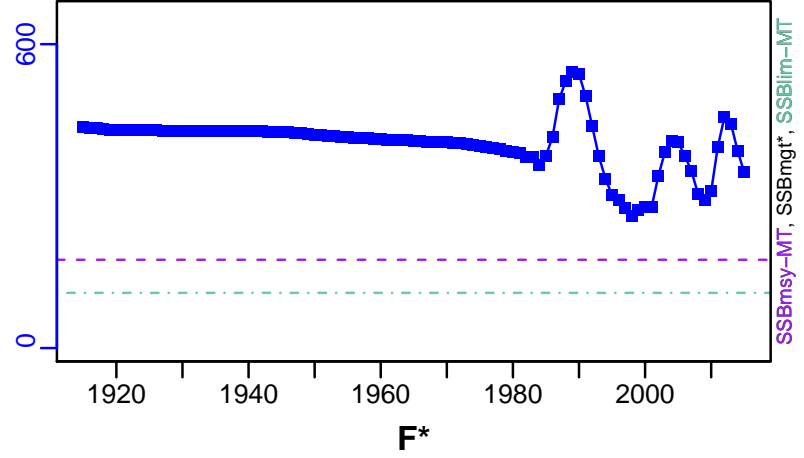
◆ Start Year ◆ End Year * No Data

Kelp greenling Oregon Coast [KELPGREENLINGORECOAST]

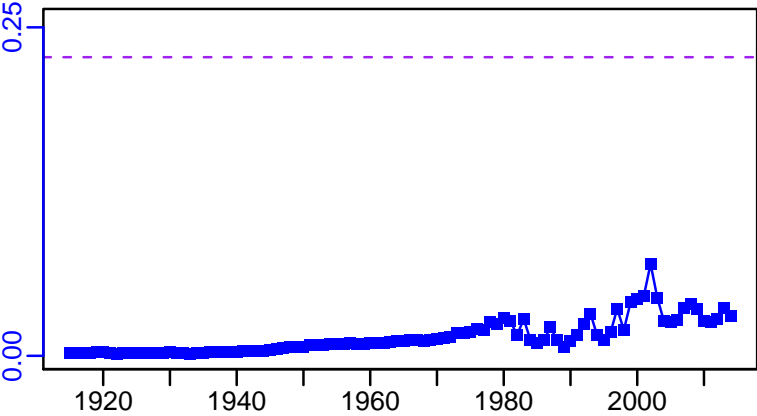
TB-MT (1915-2015-SISIMP2016)



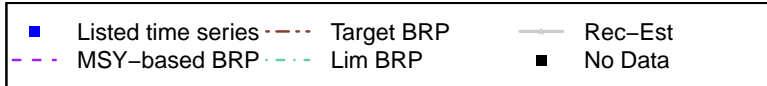
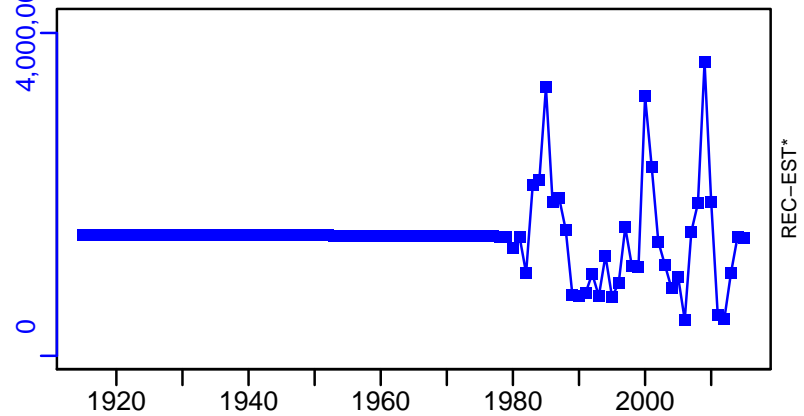
SSB-MT (1915-2015-SISIMP2016)



ER-calc-ratio (1915-2015-SISIMP2016)



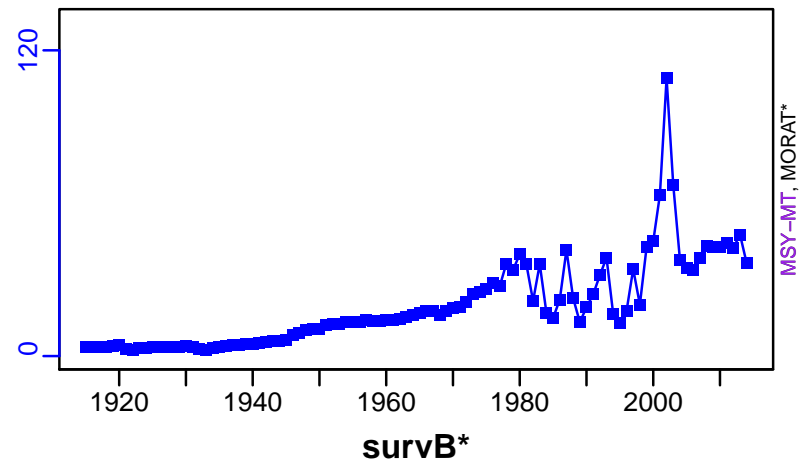
R-E00 (1915-2015-SISIMP2016)



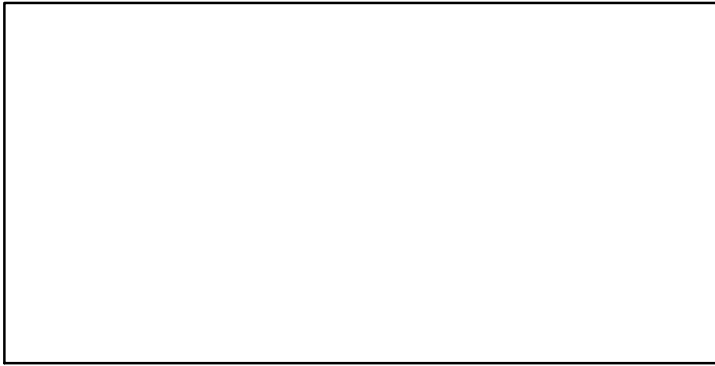
Kelp greenling Oregon Coast [KELPGREENLINGORECOAST]

TC-MT, TL*, RecC* (1915-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Lingcod Northern Pacific Coast [LINGCODNPCOAST]

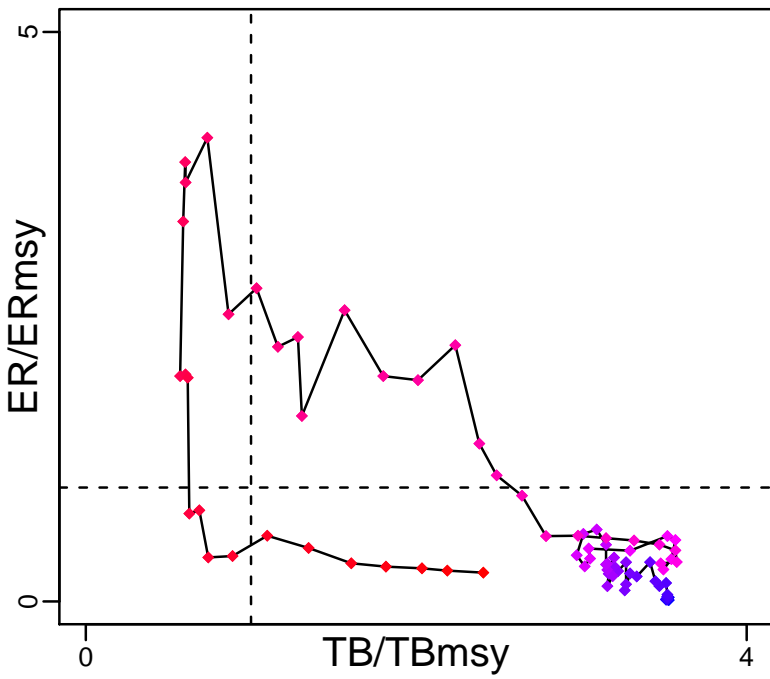
Metadata	
Scientific Name	Ophiodon elongatus
Current Assess ID	NWFSC-LINGCODNPCOAST-1928-2009-STACHURA
Area	Northern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2009

Reference Points			
Type	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
M	M-1/yr	2009	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

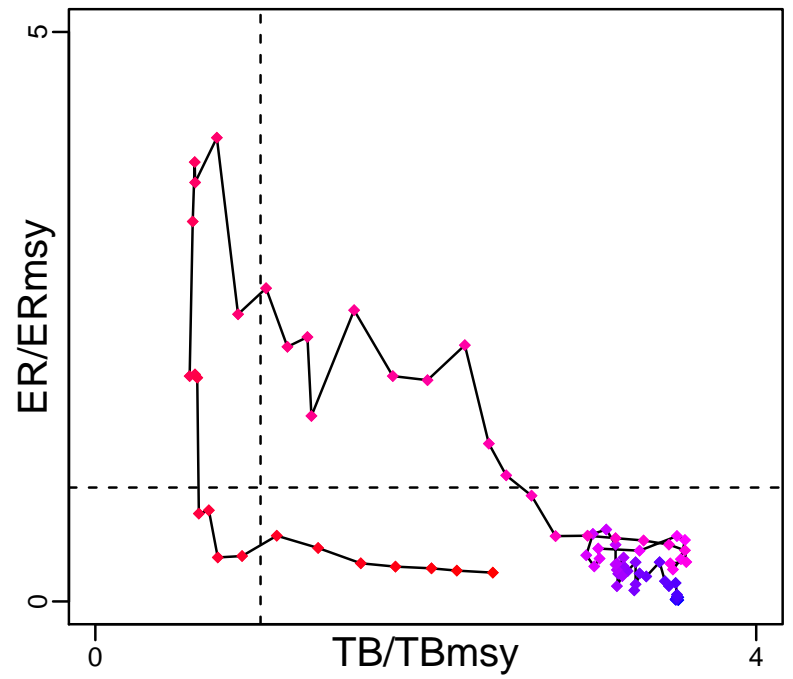
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	31,800	-	2+
SSB	SSB-MT	2009	20,500	Females	4.6
TN	-	-	-	-	-
R	R-E00	2009	3050	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	-	-	-		
TL	TL-MT	2009	350		
TB/TBmsy	TB-MT/TBmsy-MT	2009	2.57		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2009	1.55		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.25		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Lingcod Northern Pacific Coast [LINGCODNPCOAST]

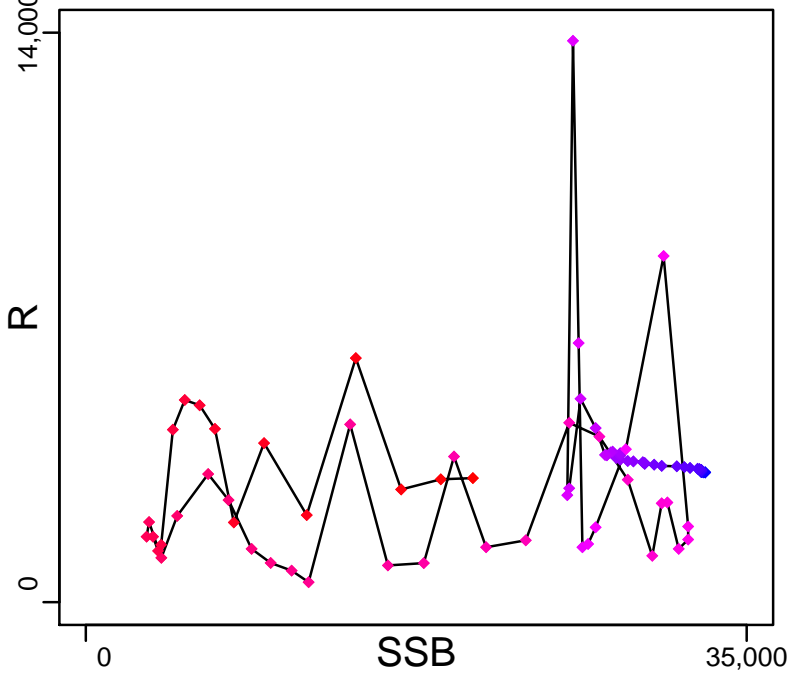
Kobe MSYpref (1928–2009–STACHURA)



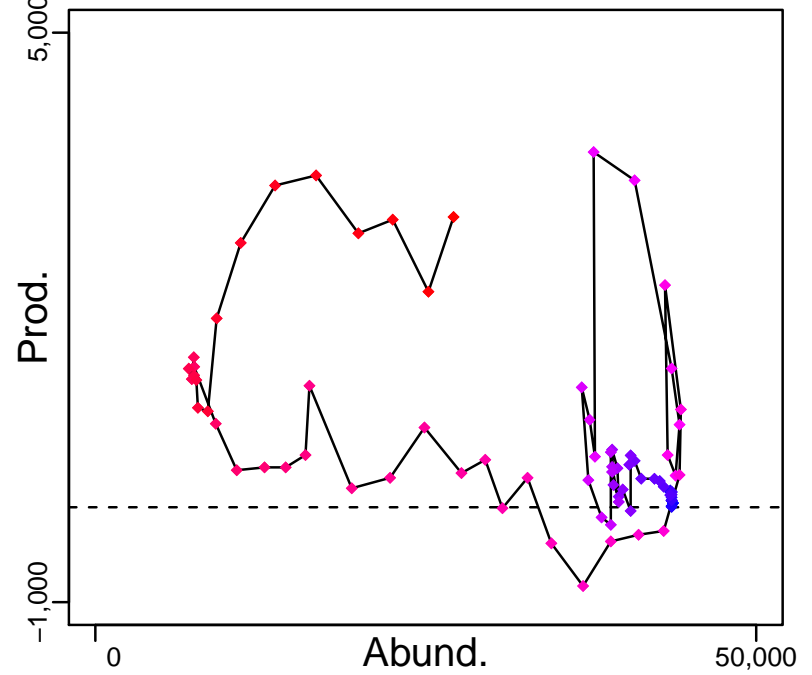
Kobe MGTpref (1928–2009–STACHURA)



Spawner Recruit (1928–2009–STACHURA)



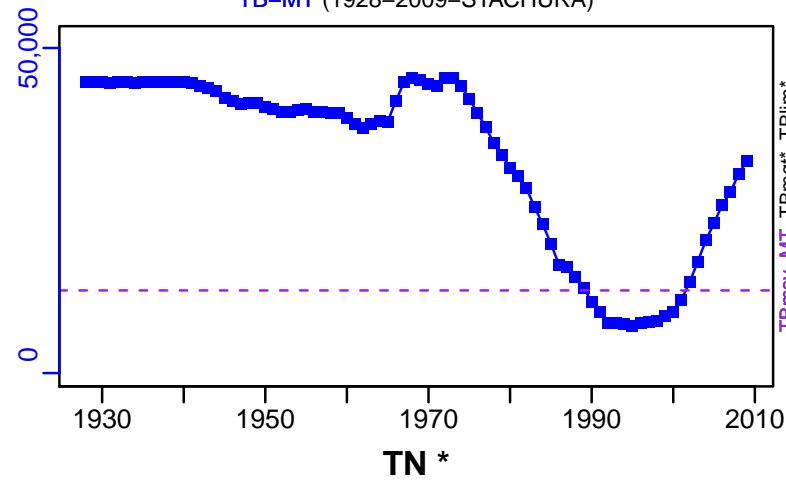
Production (1928–2009–STACHURA)



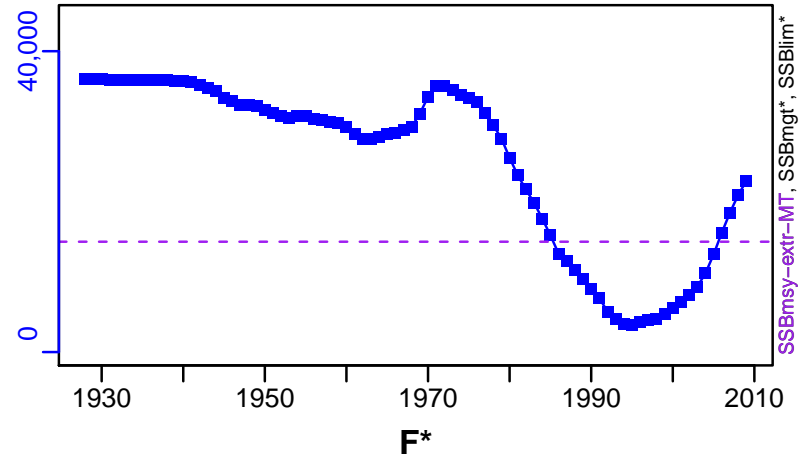
◆ Start Year ◆ End Year * No Data

Lingcod Northern Pacific Coast [LINGCODNPCOAST]

TB-MT (1928-2009-STACHURA)



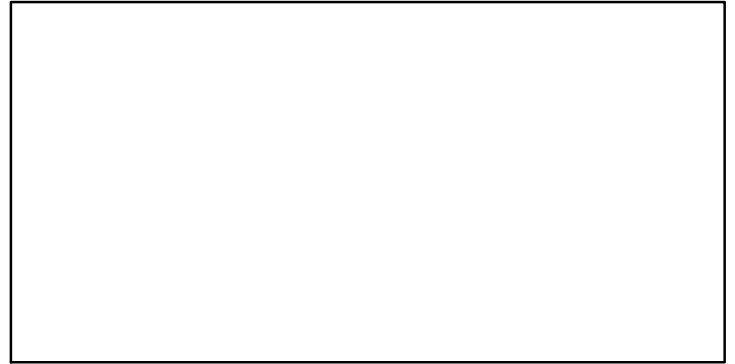
SSB-MT (1928-2009-STACHURA)



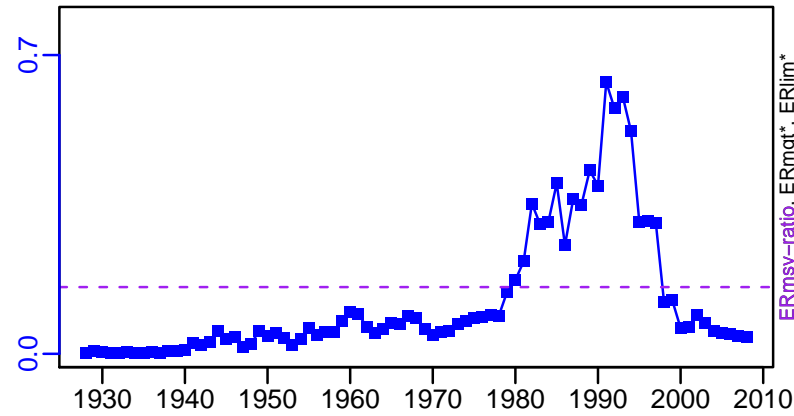
TN *



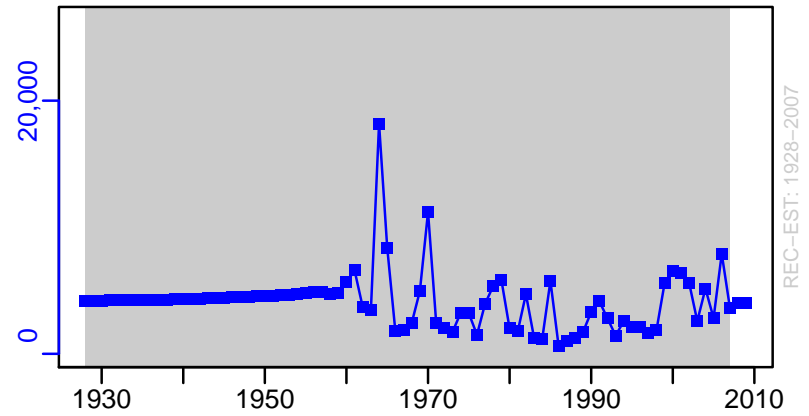
F*



ER-ratio (1928-2009-STACHURA)

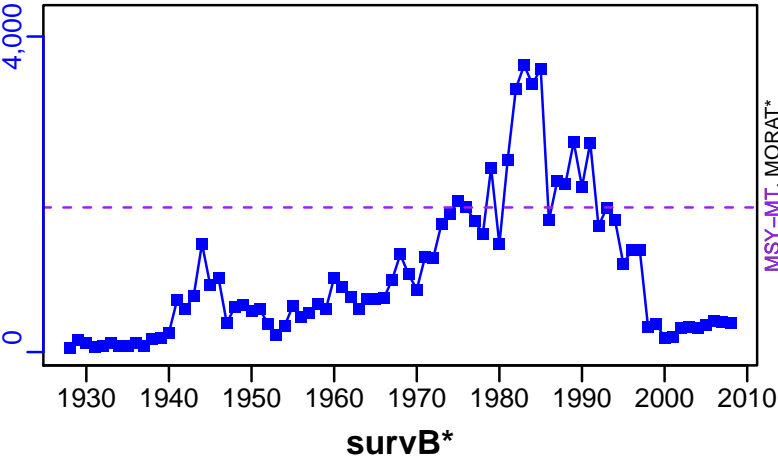


R-E00 (1928-2009-STACHURA)



Lingcod Northern Pacific Coast [LINGCODNPCOAST]

TL-MT, TC*, RecC* (1928-2009-STACHURA)



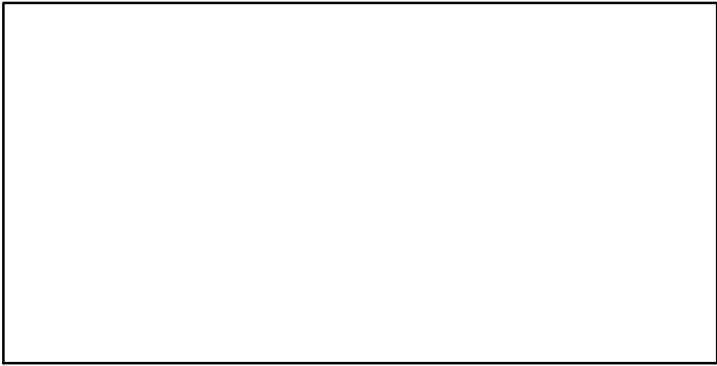
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Lingcod Southern Pacific Coast [LINGCODSPCOAST]

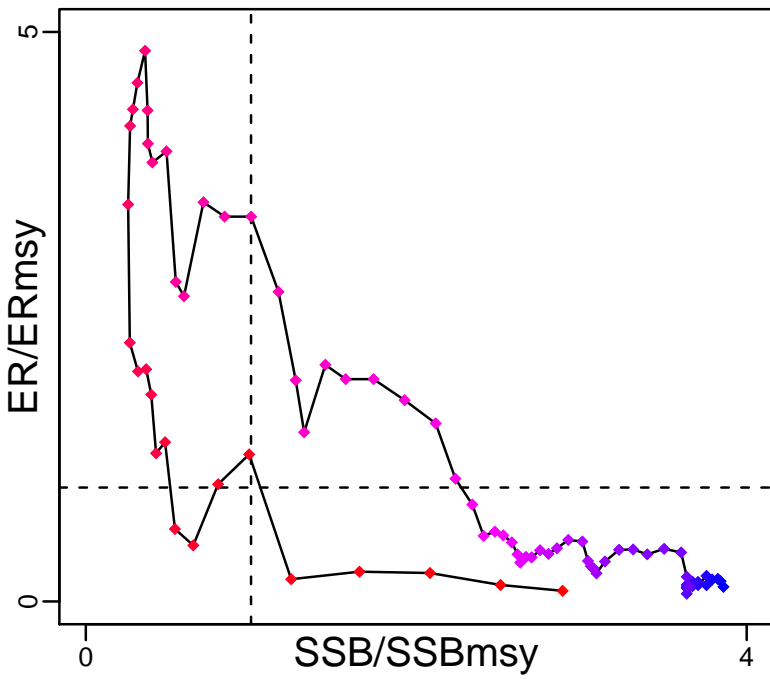
Metadata	
Scientific Name	Ophiodon elongatus
Current Assess ID	NWFSC-LINGCODSPCOAST-1928-2009-STACHURA
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2009	5856
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2009	0.1
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2009	25,311
MSY	MSY-MT	2009	1678
M	M-1/yr	2009	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

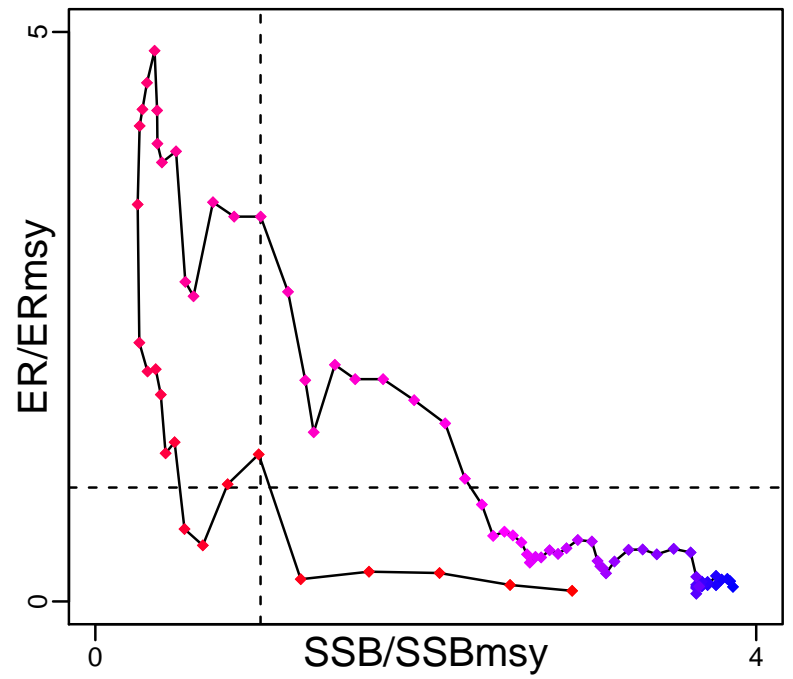
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	30,900	-	2+
SSB	SSB-MT	2009	18,700	Females	5
TN	-	-	-	-	-
R	R-E00	2009	3440	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2009	171	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	3.19	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.09	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Lingcod Southern Pacific Coast [LINGCODSPCOAST]

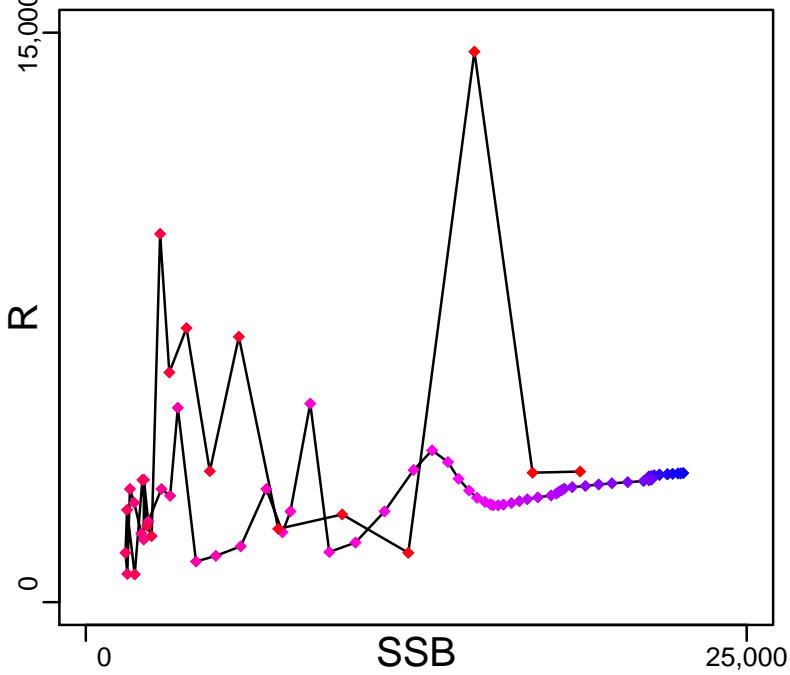
Kobe MSYpref (1928–2009–STACHURA)



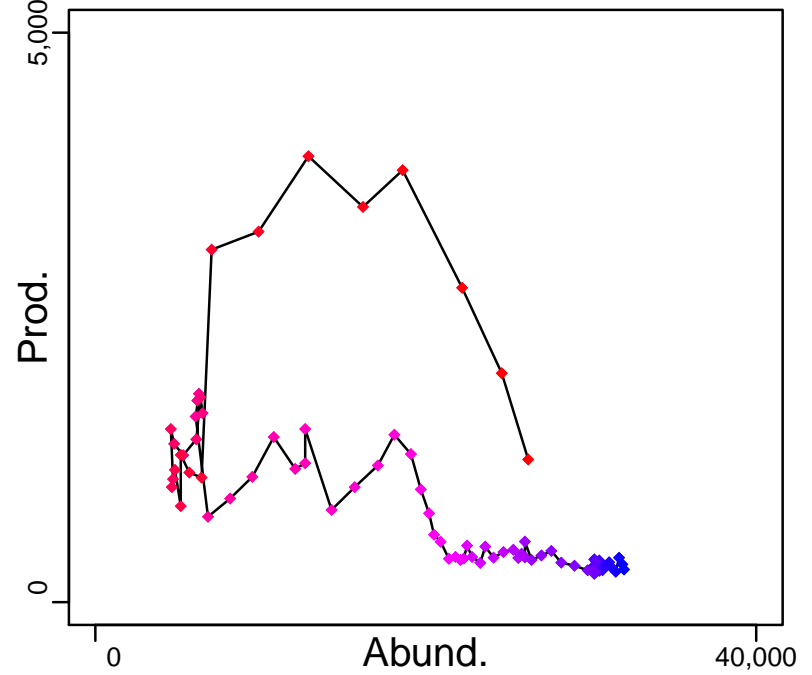
Kobe MGTpref (1928–2009–STACHURA)



Spawner Recruit (1928–2009–STACHURA)



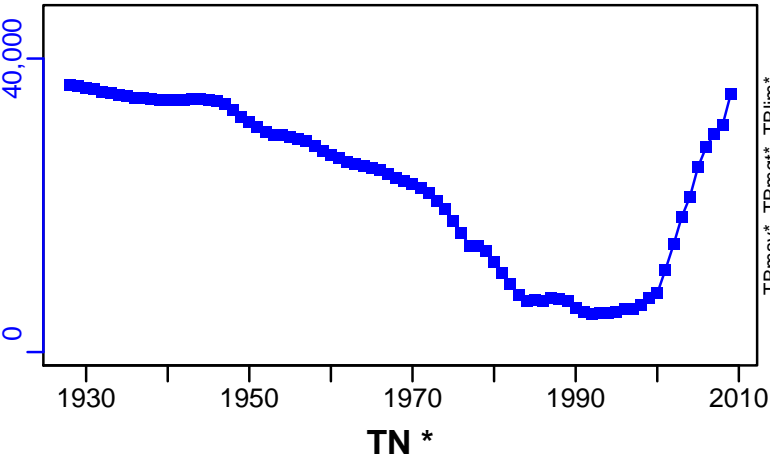
Production (1928–2009–STACHURA)



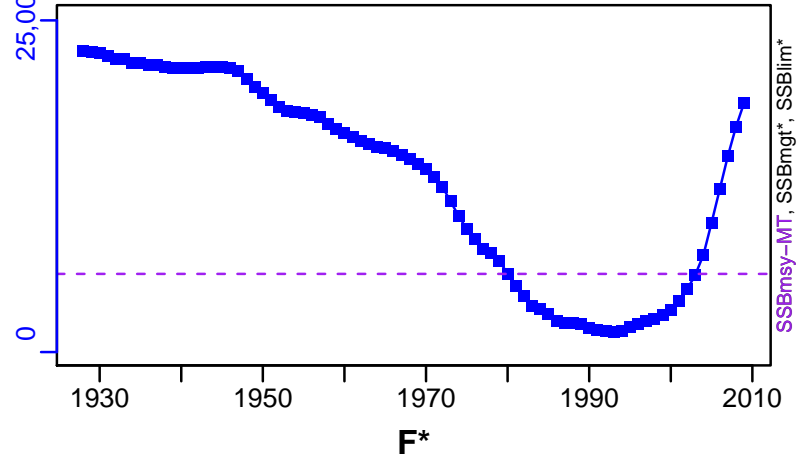
◆ Start Year ◆ End Year * No Data

Lingcod Southern Pacific Coast [LINGCODSPCOAST]

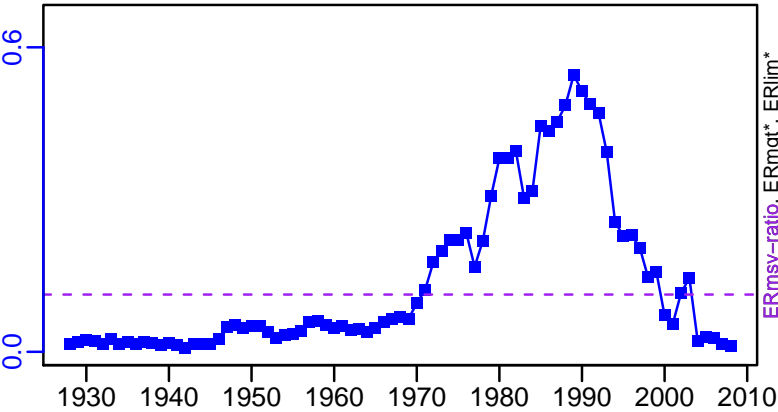
TB-MT (1928-2009-STACHURA)



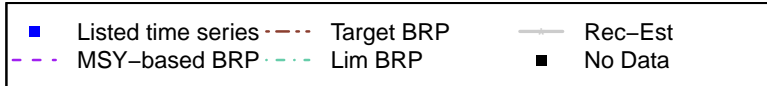
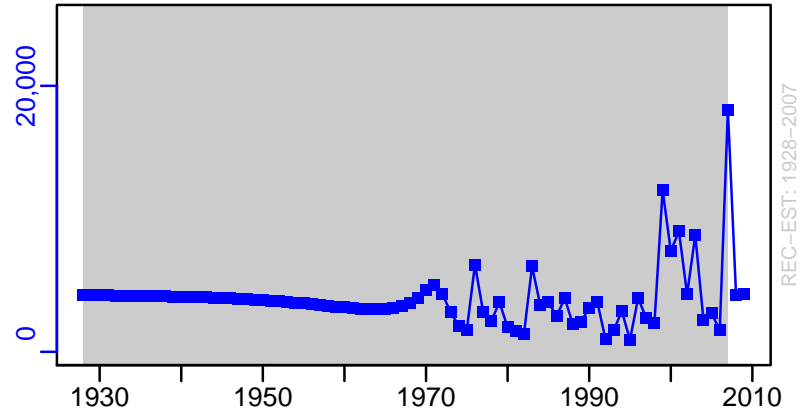
SSB-MT (1928-2009-STACHURA)



ER-ratio (1928-2009-STACHURA)



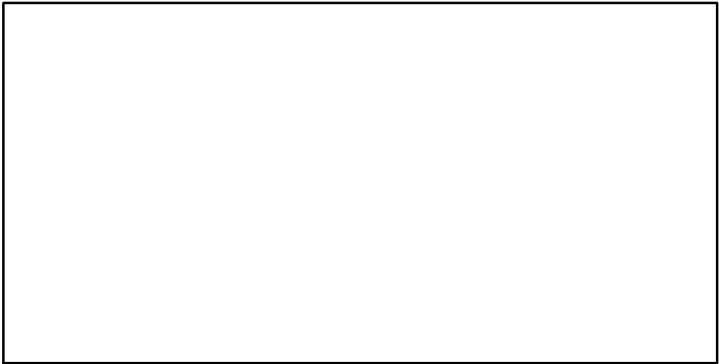
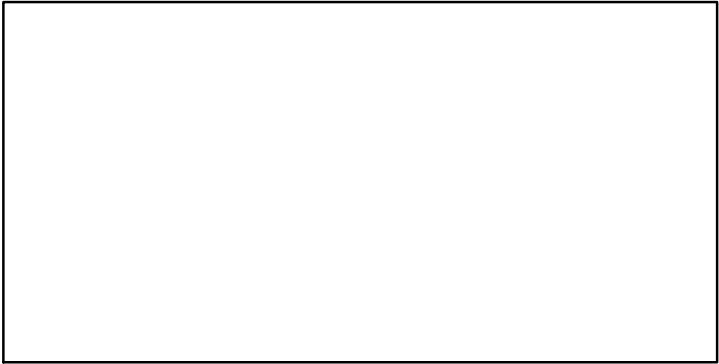
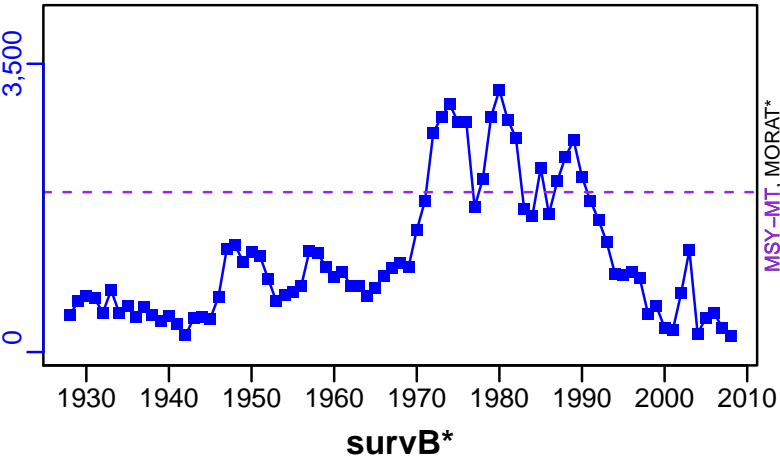
R-E00 (1928-2009-STACHURA)



Lingcod Southern Pacific Coast [LINGCODSPCOAST]

TL-MT, TC*, RecC* (1928-2009-STACHURA)

TAC*, Cpair*, Cadv*



Longnose skate Pacific Coast [LNOSESKAPCOAST]

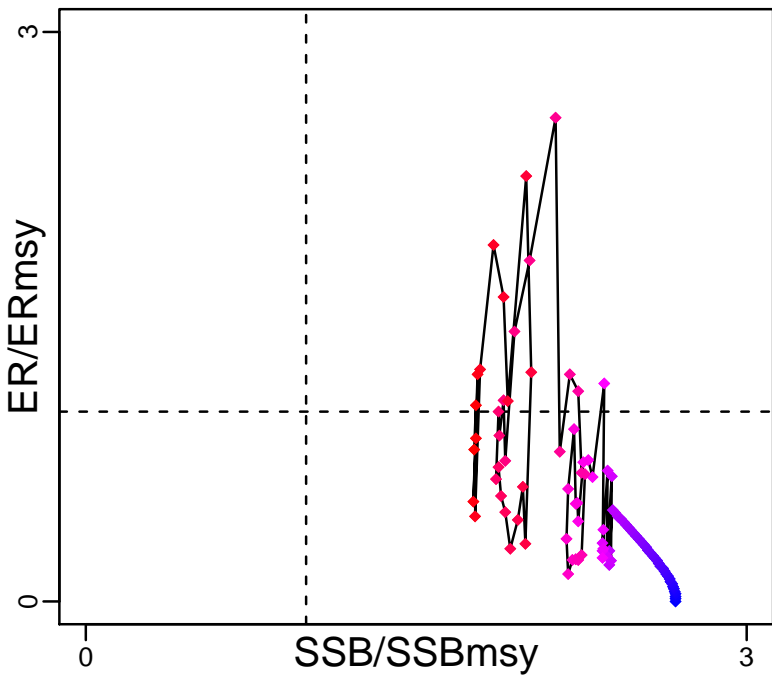
Metadata	
Scientific Name	Raja rhina
Current Assess ID	NWFSC-LNOSESKAPCOAST-1915-2007-BRANCH
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2007	2626
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	0.03
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	7034
MSY	MSY-MT	2007	1268
M	M-1/yr	2007	0.2
TBlim	TBlim-MT	2007	4617
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

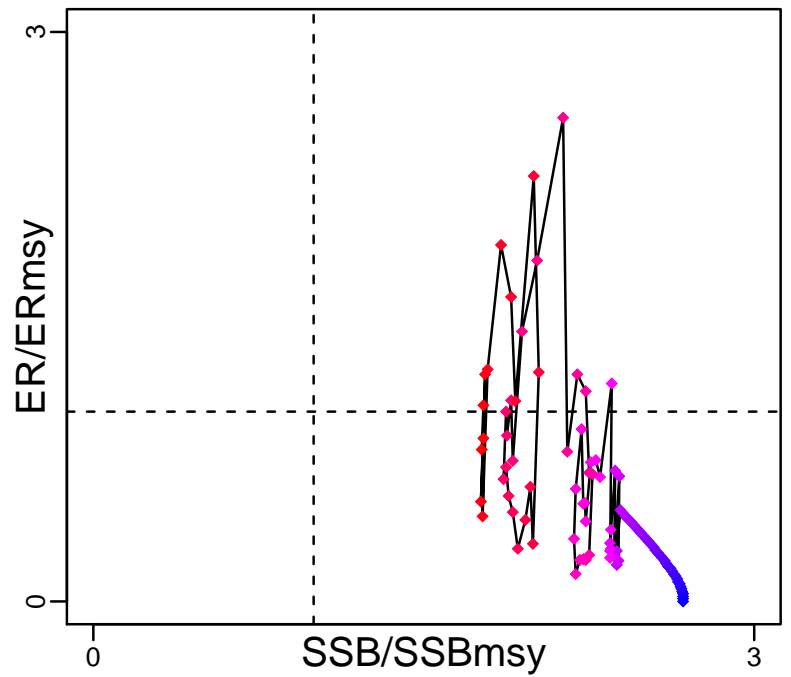
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	71,200	-	0+
SSB	SSB-MT	2007	4630	Females	-
TN	-	-	-	-	-
R	R-E00	2007	12,900,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	899		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	1.76		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.8		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Longnose skate Pacific Coast [LNOSESKAPCOAST]

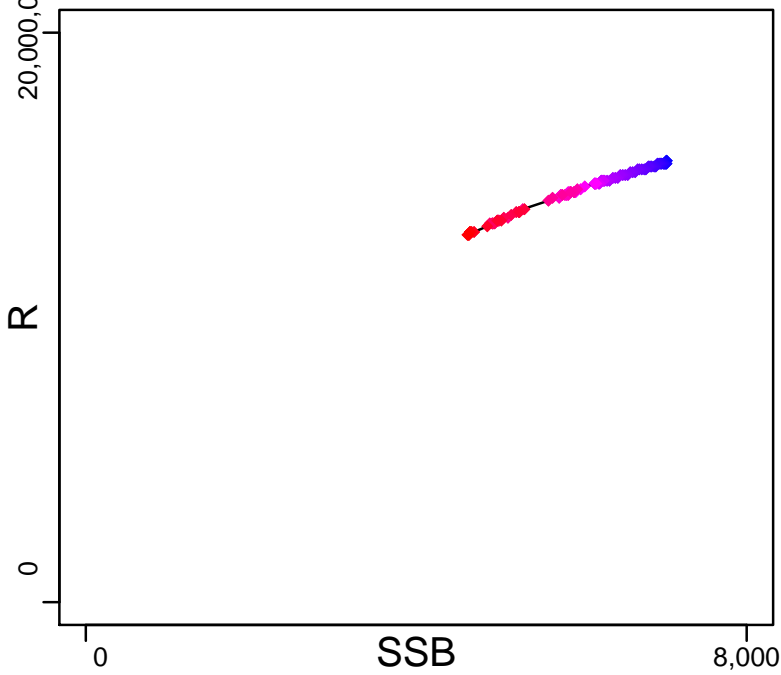
Kobe MSYpref (1915–2007–BRANCH)



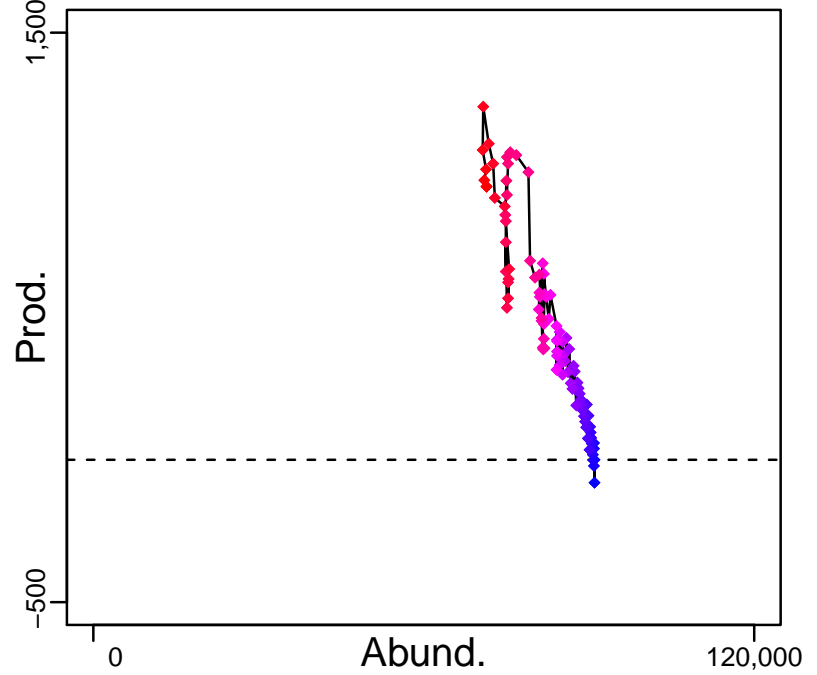
Kobe MGTpref (1915–2007–BRANCH)



Spawner Recruit (1915–2007–BRANCH)



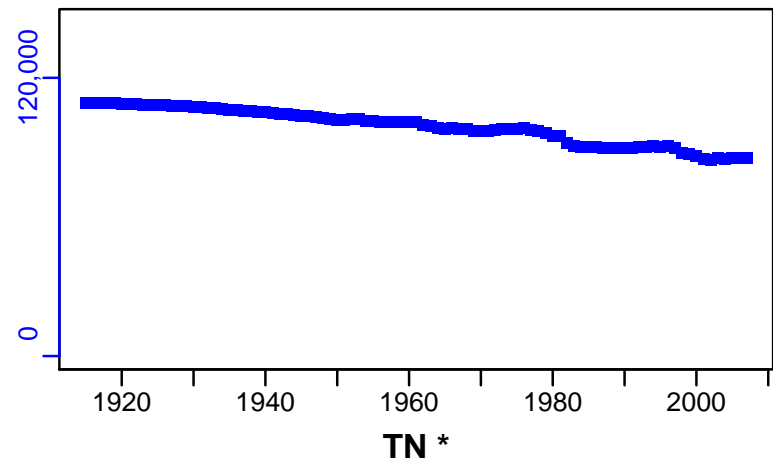
Production (1915–2007–BRANCH)



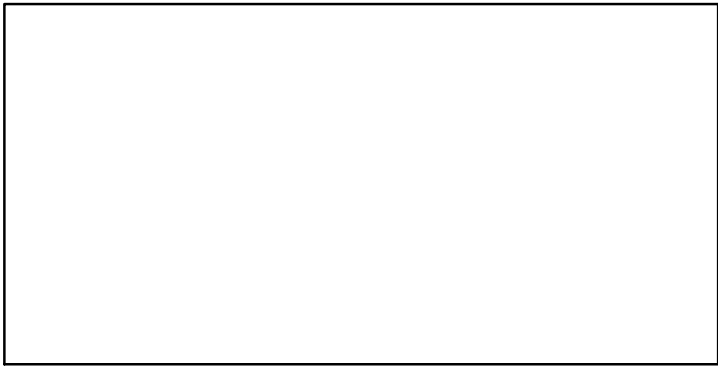
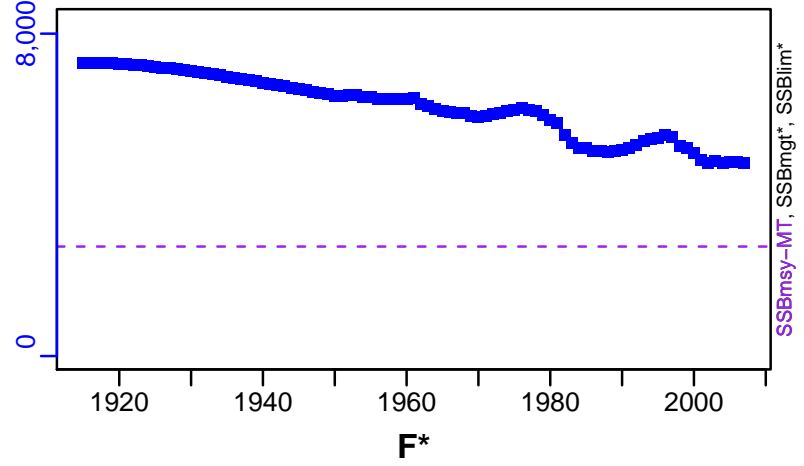
◆ Start Year ◆ End Year * No Data

Longnose skate Pacific Coast [LNOSESKAPCOAST]

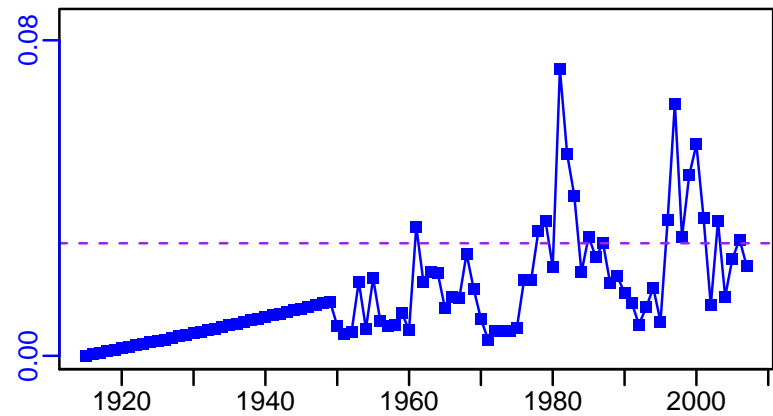
TB-MT (1915-2007-BRANCH)



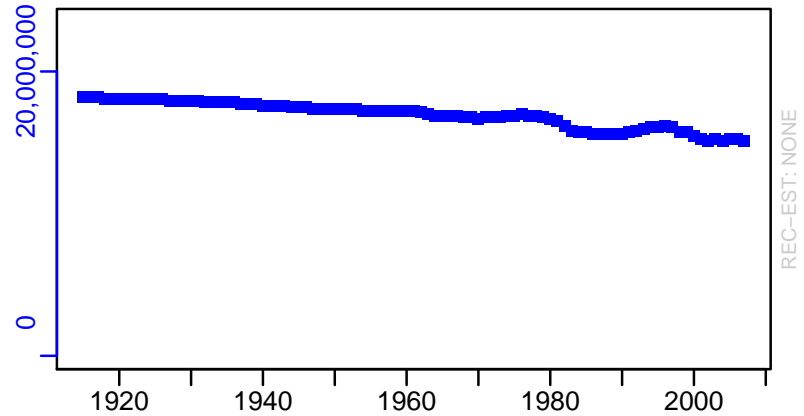
SSB-MT (1915-2007-BRANCH)



ER-ratio (1915-2007-BRANCH)



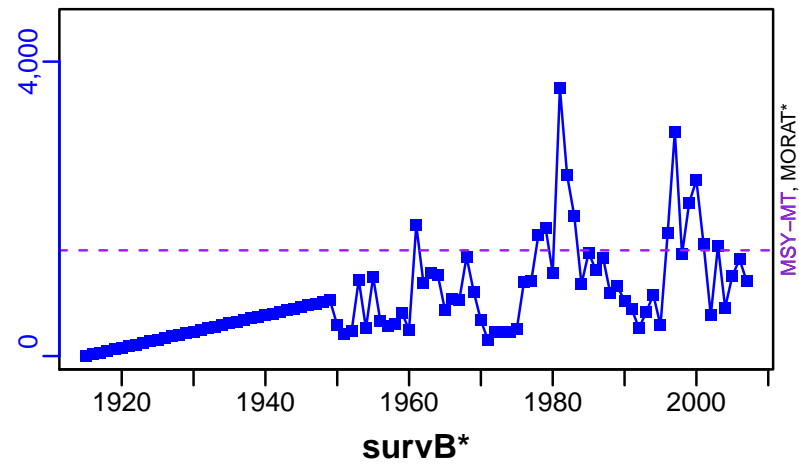
R-E00 (1915-2007-BRANCH)



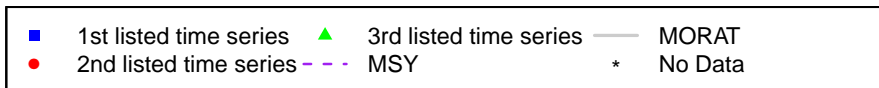
Longnose skate Pacific Coast [LNOSESKAPCOAST]

TC-MT, TL*, RecC* (1915-2007-BRANCH)

TAC*, Cpair*, Cadv*



EFFORT*



Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

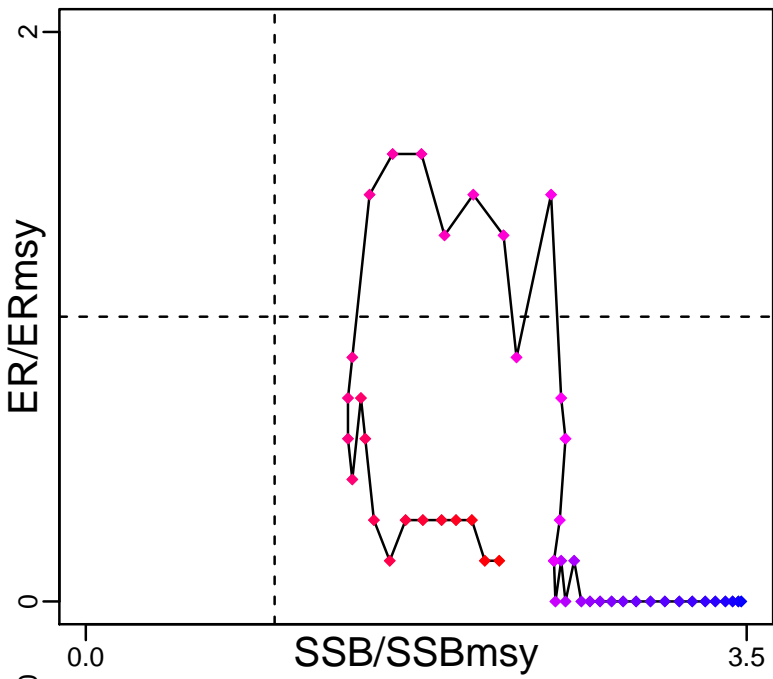
Metadata	
Scientific Name	Sebastolobus altivelis
Current Assess ID	NWFSC-LSTHORNHPCOAST-1964-2012-HIVELY
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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
M	M-1/yr	2012	0.11
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

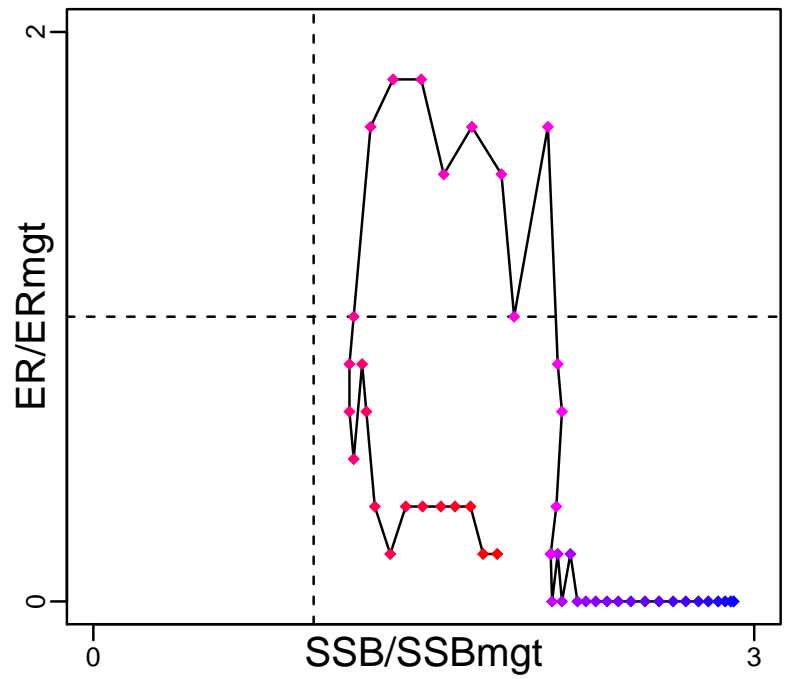
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	68,300	-	2+
SSB	SSB-MT	2012	28,700	Females	12 to 15
TN	-	-	-	-	-
R	R-E00	2012	1.33×10^8	-	0
F	-	-	-	-	-
ER	ER-ratio	2012	0	-	-
TC	TC-MT	2012	871		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	2.19		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.14		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.83		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

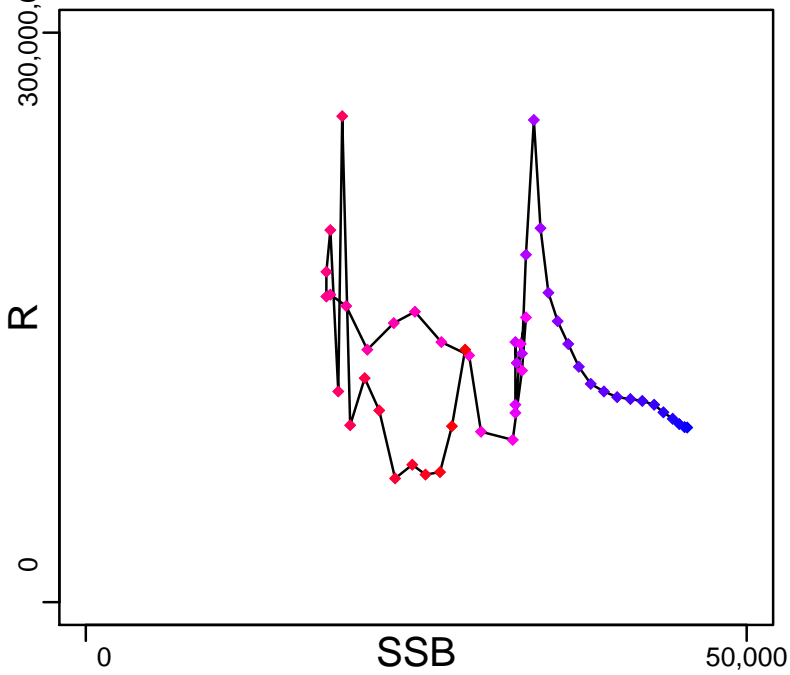
Kobe MSYpref (1964–2012–HIVELY)



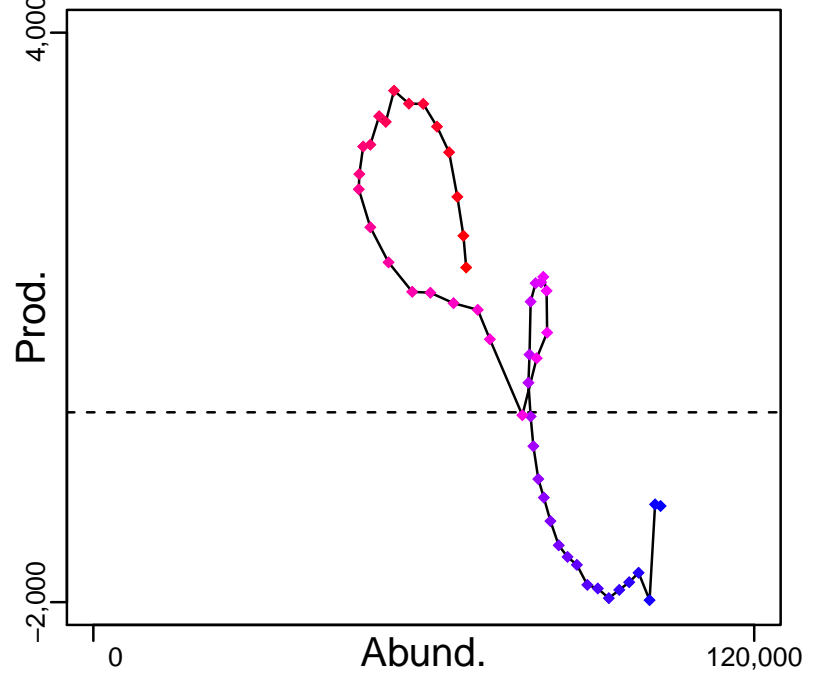
Kobe MGTpref (1964–2012–HIVELY)



Spawner Recruit (1964–2012–HIVELY)



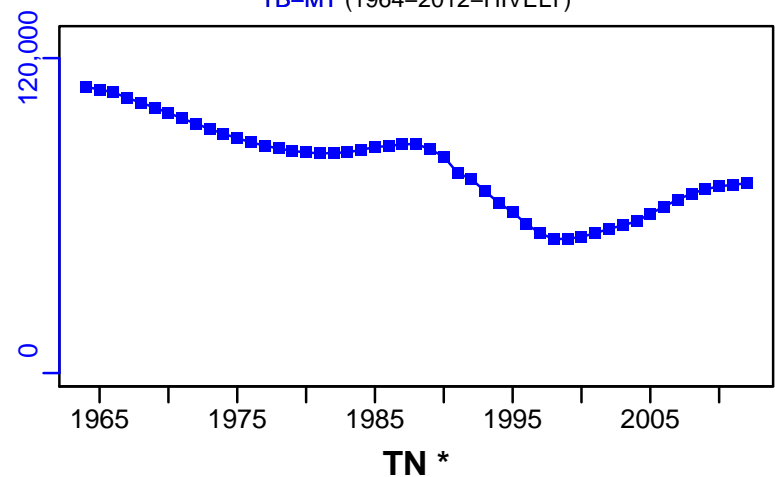
Production (1964–2012–HIVELY)



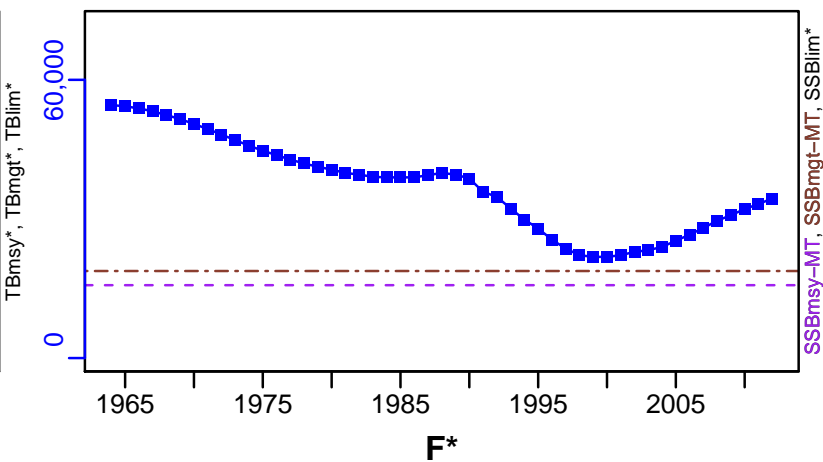
◆ Start Year ◆ End Year * No Data

Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

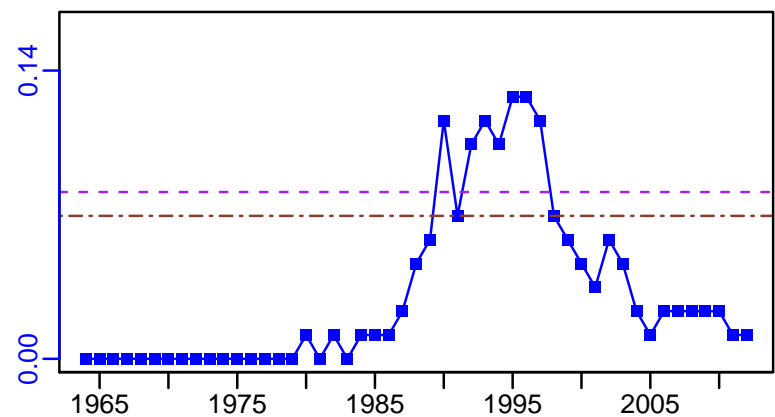
TB-MT (1964–2012–HIVELY)



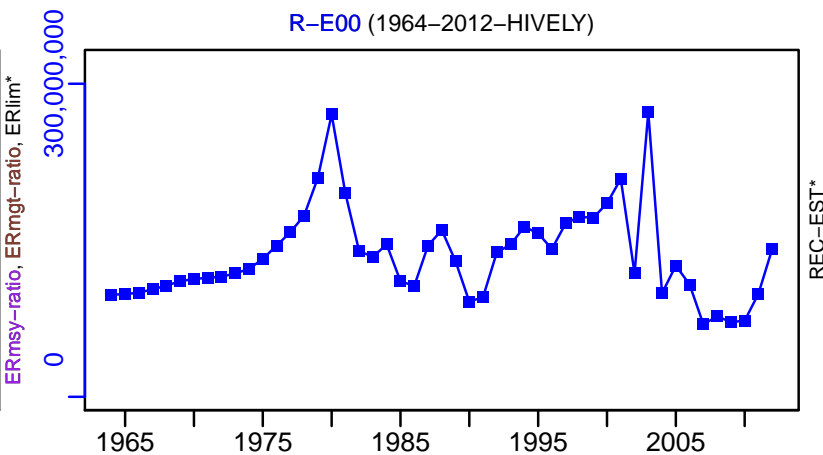
SSB-MT (1964–2012–HIVELY)



ER-ratio (1964–2012–HIVELY)

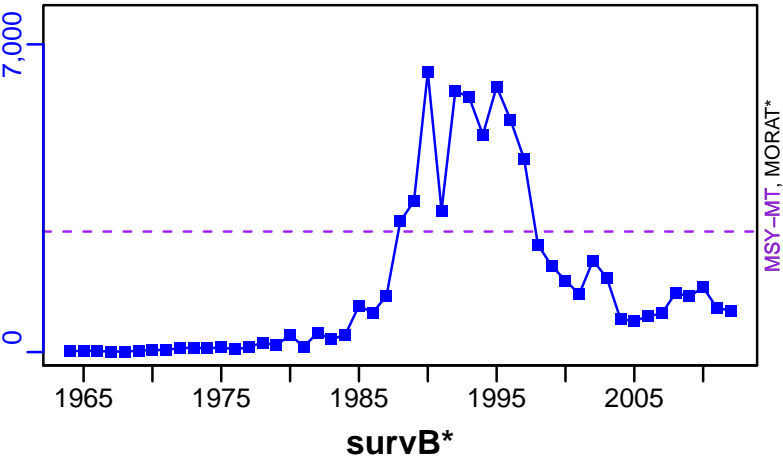


R-E00 (1964–2012–HIVELY)



Longspine thornyhead Pacific Coast [LSTHORNHPCOAST]

TC-MT, TL*, RecC* (1964-2012-HIVELY)



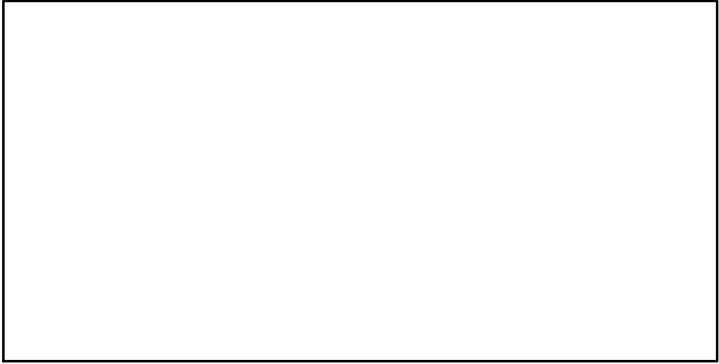
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Pacific Geoduck Washington [PGEODWA]

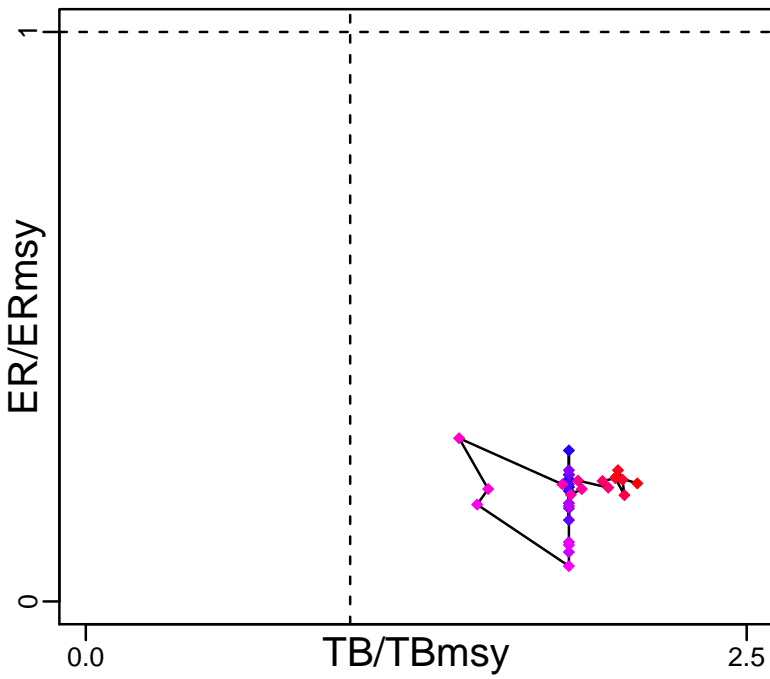
Metadata	
Scientific Name	Panopea generosa
Current Assess ID	WDFW-PGEODWA-1980-2010-HIVELY
Area	Washington
Management Authority	State of Washington
Assessor	Washington Department of Fish and Wildlife
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	40,932
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2010	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	4956
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

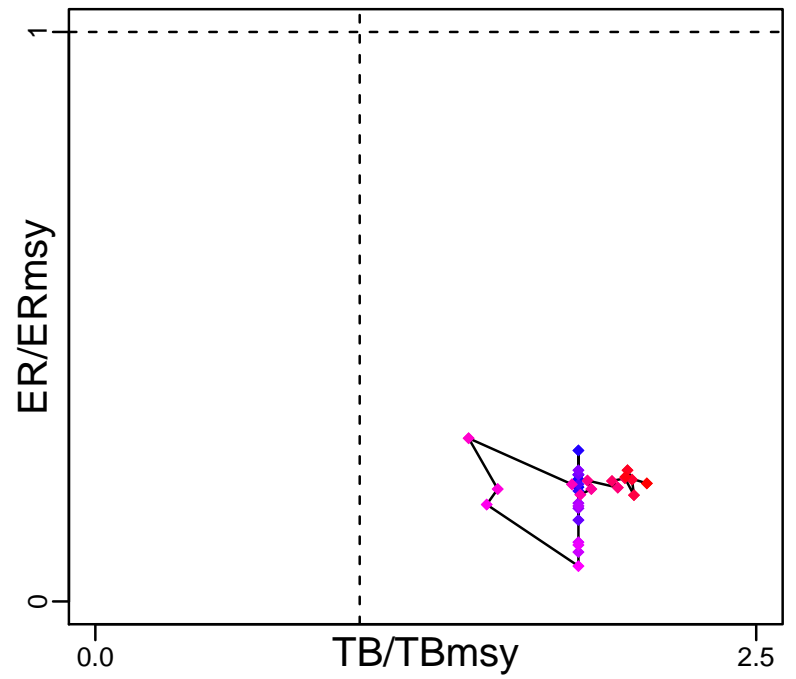
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	85,400	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2010	2150		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	2.09		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.21		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific Geoduck Washington [PGEODWA]

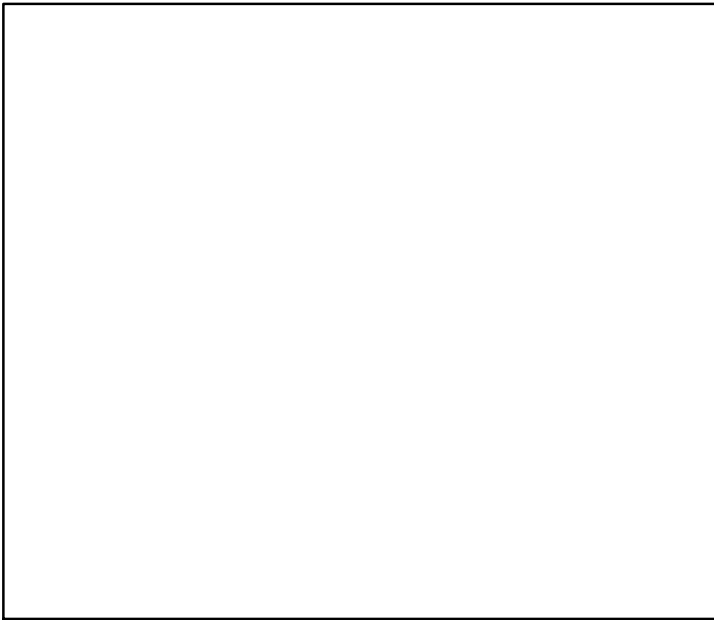
Kobe MSYpref (1980–2010–HIVELY)



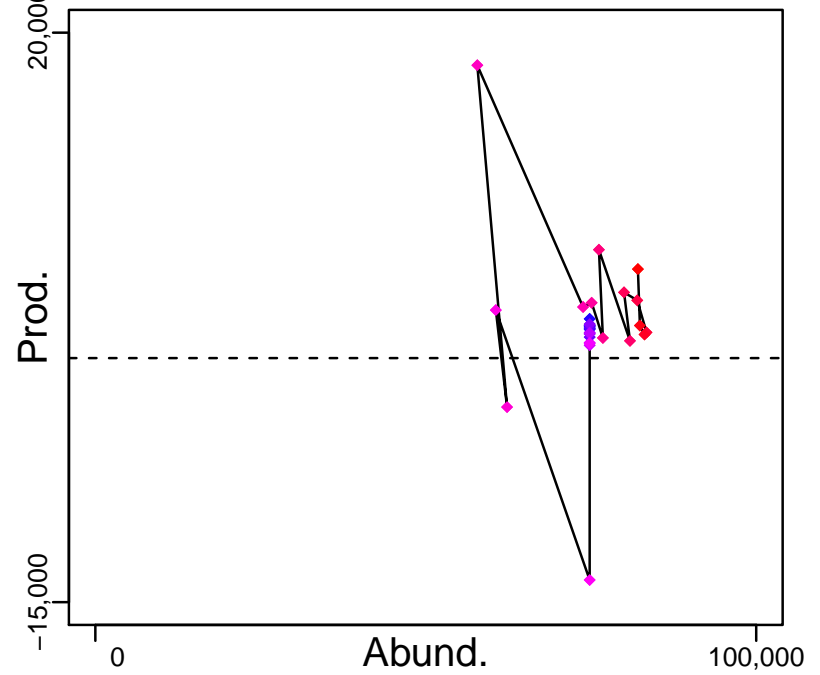
Kobe MGTpref (1980–2010–HIVELY)



Spawner Recruit*



Production (1980–2010–HIVELY)

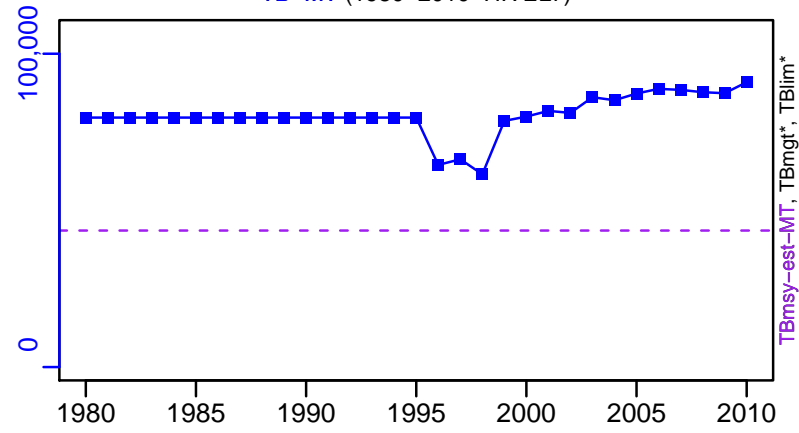


◆ Start Year ◆ End Year * No Data

Pacific Geoduck Washington [PGEODWA]

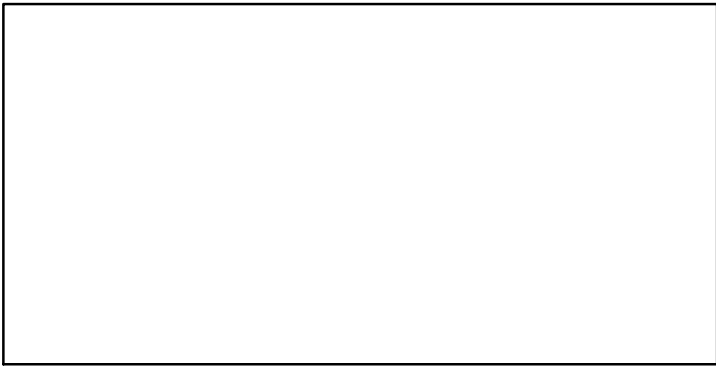
TB-MT (1980-2010-HIVELY)

SSB*



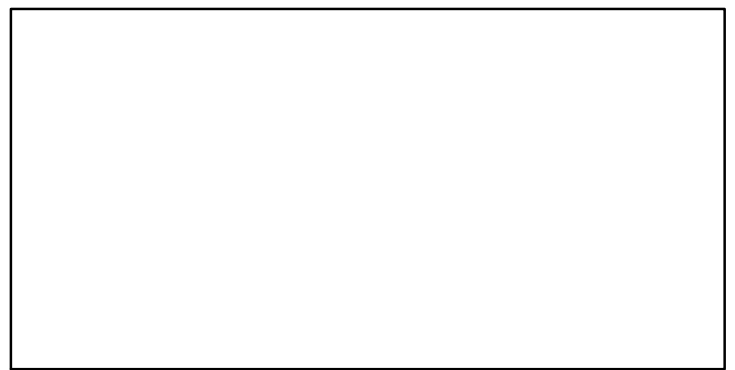
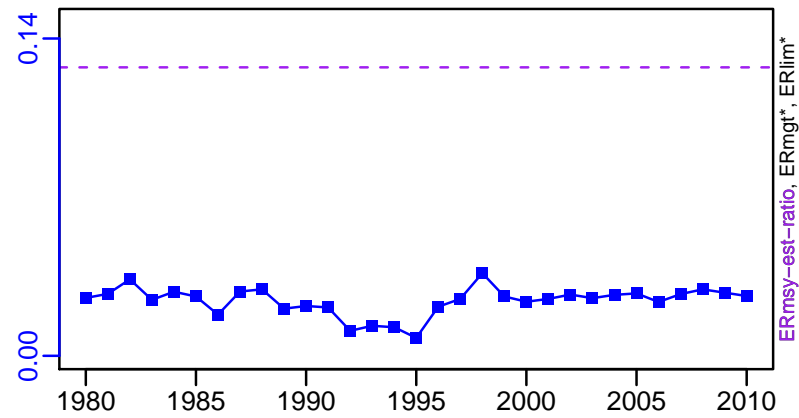
TN *

F*



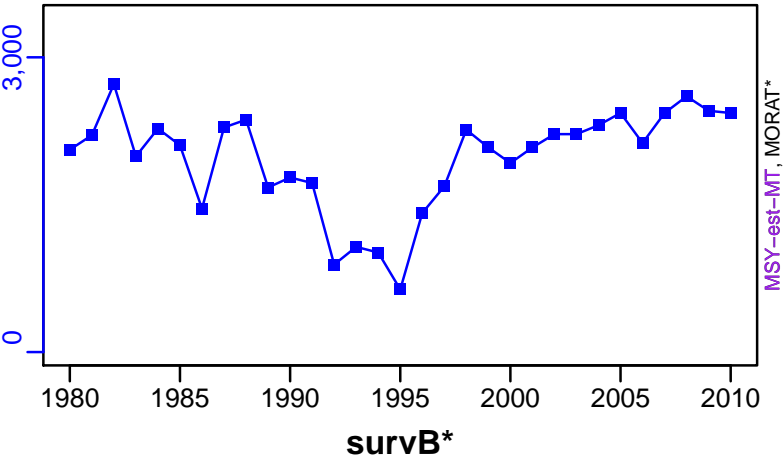
ER-ratio (1980-2010-HIVELY)

Recruits*



Pacific Geoduck Washington [PGEODWA]

TC-MT, TL*, RecC* (1980-2010-HIVELY)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Pacific hake Pacific Coast [PHAKEPCOAST]

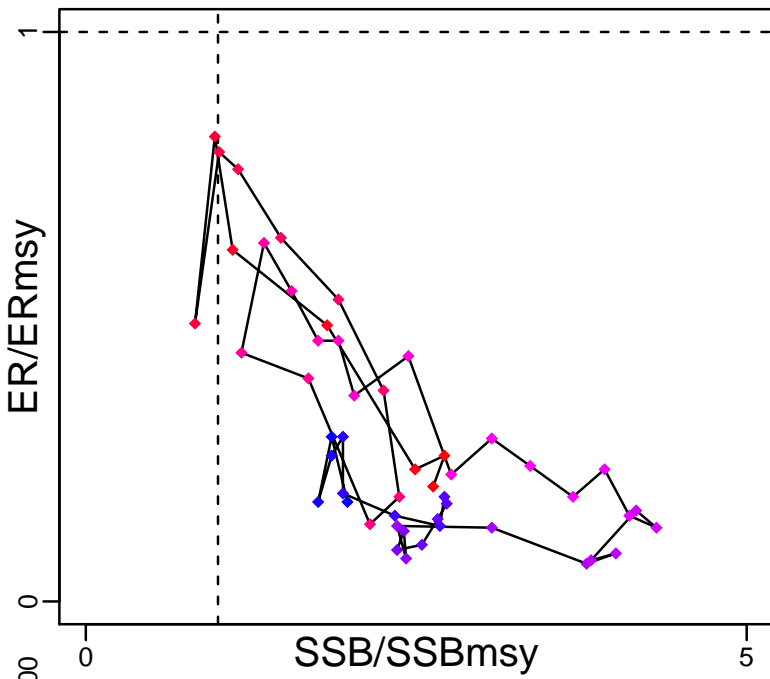
Metadata	
Scientific Name	Merluccius productus
Current Assess ID	PFMC-PHAKEPCOAST-1966-2016-WATSON
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	586,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.33
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	0.23
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

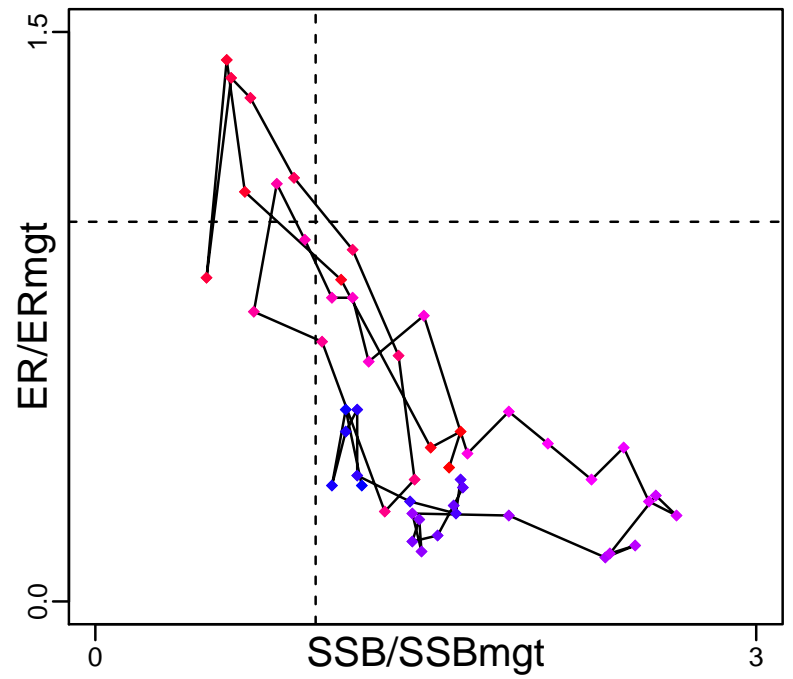
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	1,890,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	1.22×10^9	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0	-	-
TC	TC-MT	2016	191,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	3.23		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.2		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.97		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific hake Pacific Coast [PHAKEPCOAST]

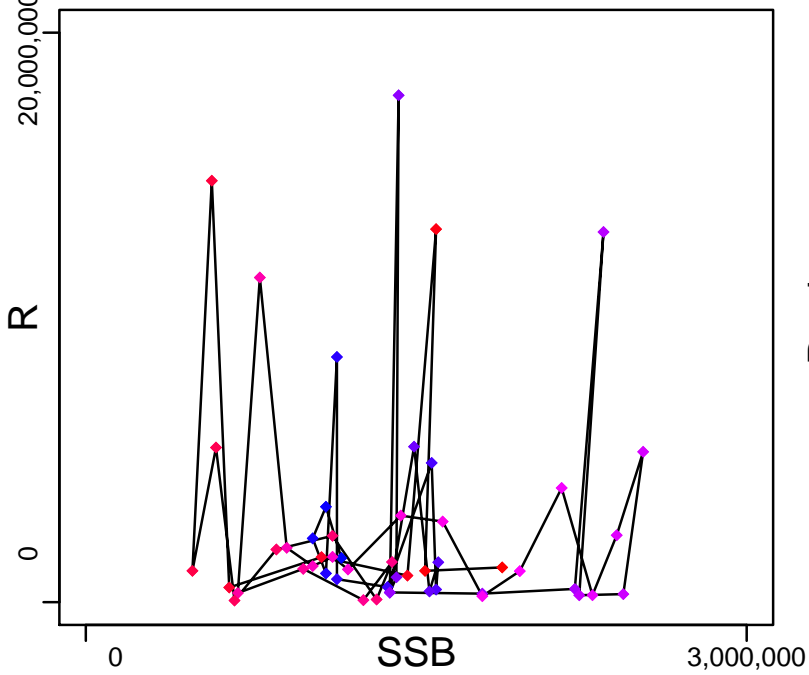
Kobe MSYpref (1966–2016–WATSON)



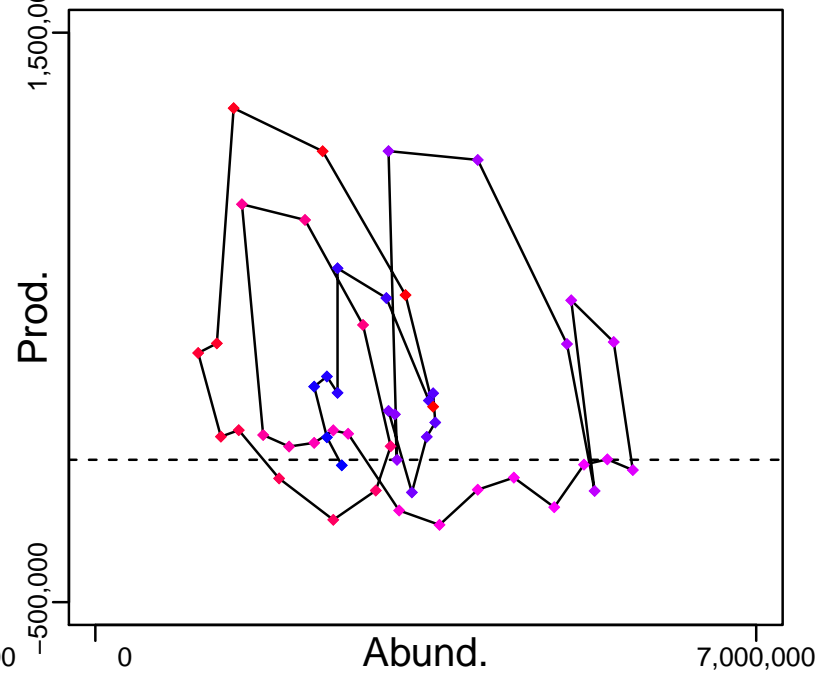
Kobe MGTpref (1966–2016–WATSON)



Spawner Recruit (1966–2016–WATSON)



Production (1966–2016–WATSON)



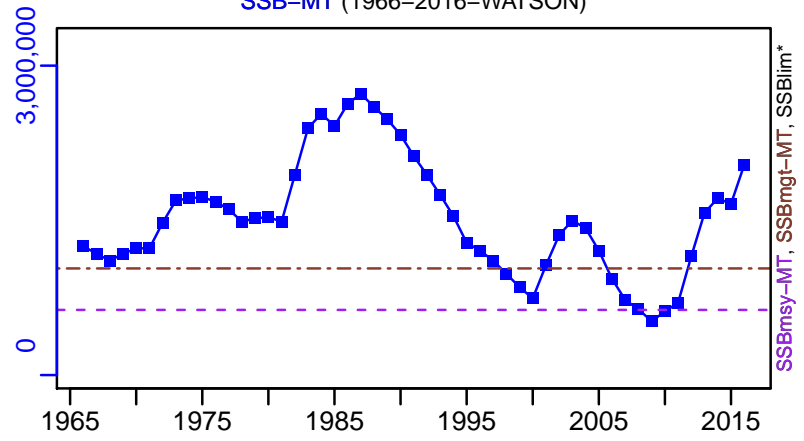
◆ Start Year ◆ End Year * No Data

Pacific hake Pacific Coast [PHAKEPCOAST]

TB*



SSB-MT (1966–2016–WATSON)



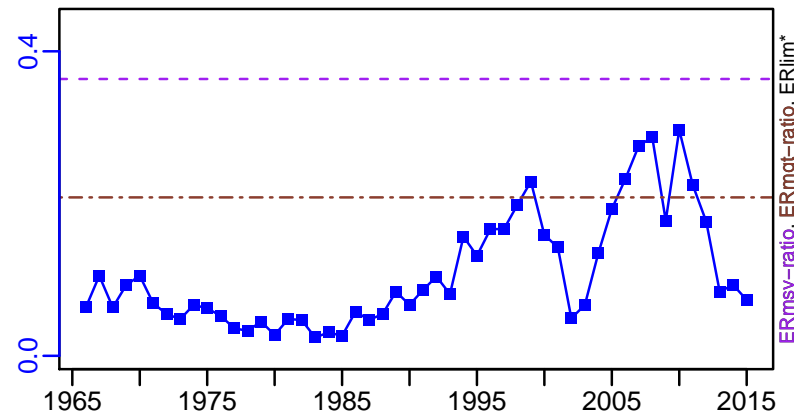
TN *



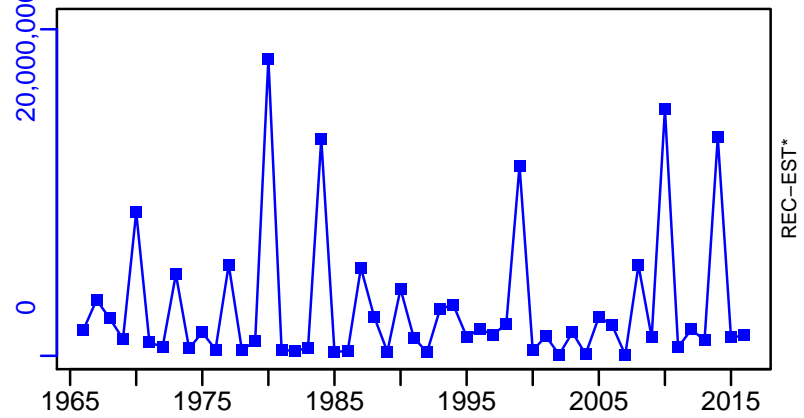
F*



ER-ratio (1966–2016–WATSON)



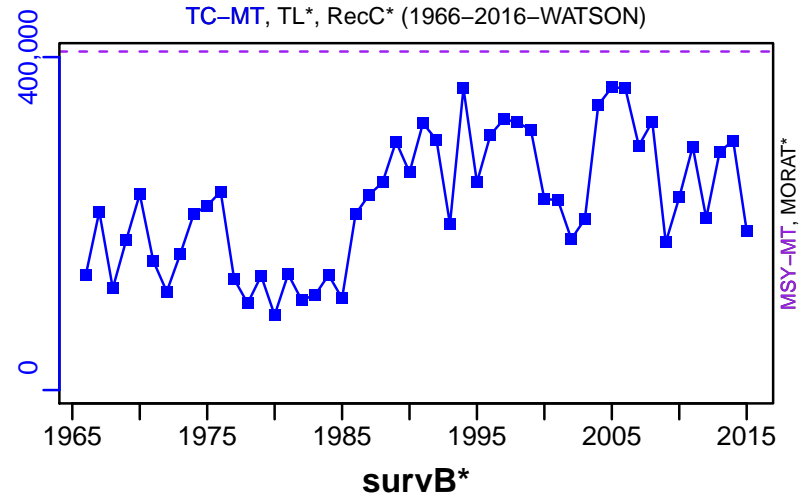
R-E00 (1966–2016–WATSON)



Pacific hake Pacific Coast [PHAKEPCOAST]

TC-MT, TL*, RecC* (1966-2016-WATSON)

TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Pacific ocean perch Pacific Coast [POPERCHPCOAST]

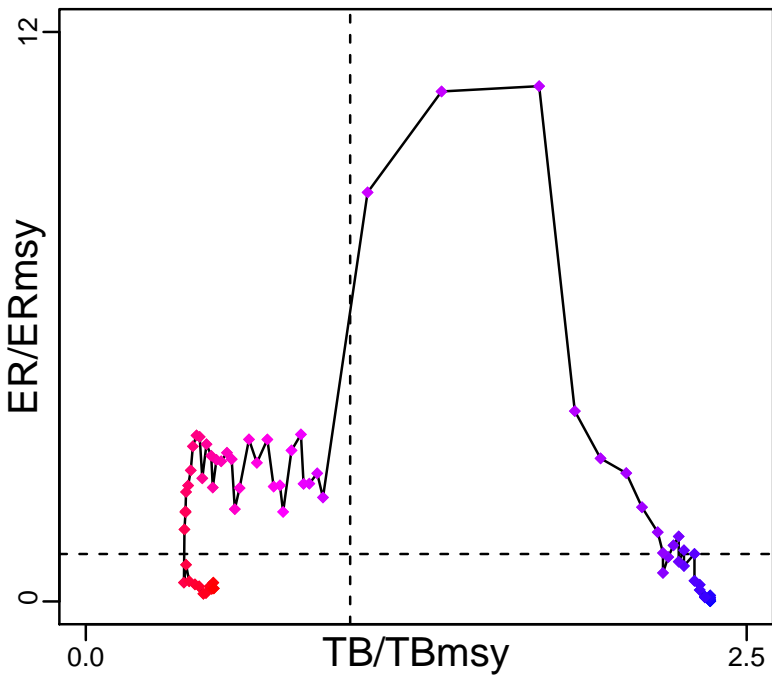
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	NWFSC-POPERCHPCOAST-1940-2011-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	50,381
SSBmsy	SSBmsy-E00eggs	2011	2.56×10^{12}
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2011	0.02
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-E00eggs	2011	6.56×10^{12}
MSY	MSY-MT	2011	1058
M	M-1/yr	2011	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

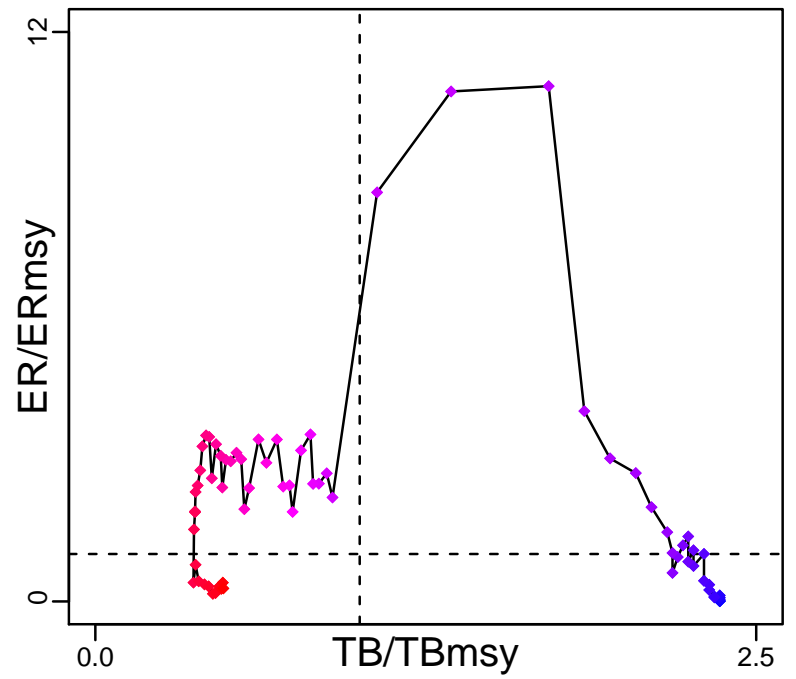
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	25,500	-	3+
SSB	SSB-E00eggs	2011	1.25×10^{12}	-	6+
TN	-	-	-	-	-
R	R-E00	2011	3,590,000	-	0
F	F-1/yr	2011	0	Both	3+
ER	ER-calc-ratio	2011	0	-	-
TC	TC-MT	2011	141		
TL	TL-MT	2011	91		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	0.51		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2011	0.49		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.28		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific ocean perch Pacific Coast [POPERCHPCOAST]

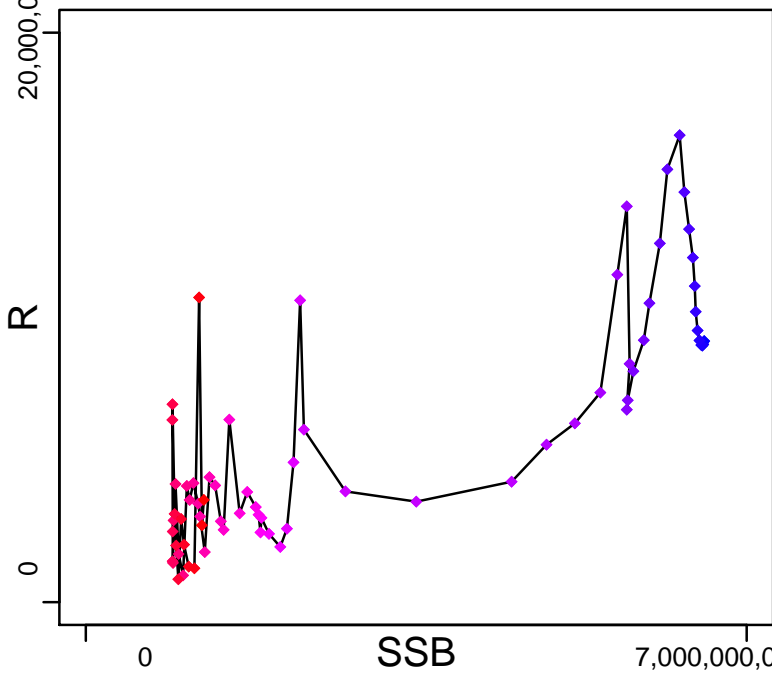
Kobe MSYpref (1940–2011–STACHURA)



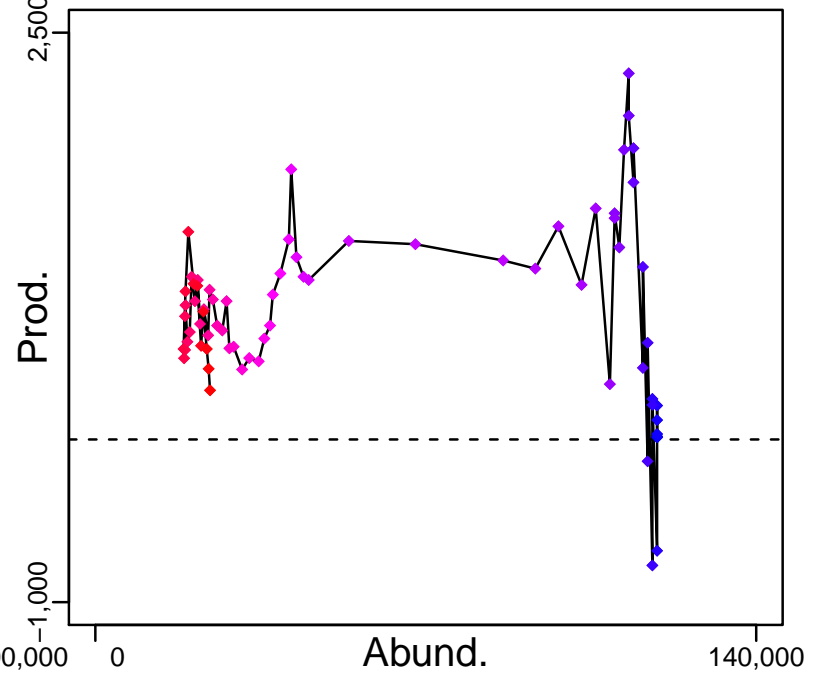
Kobe MGTpref (1940–2011–STACHURA)



Spawner Recruit (1940–2011–STACHURA)



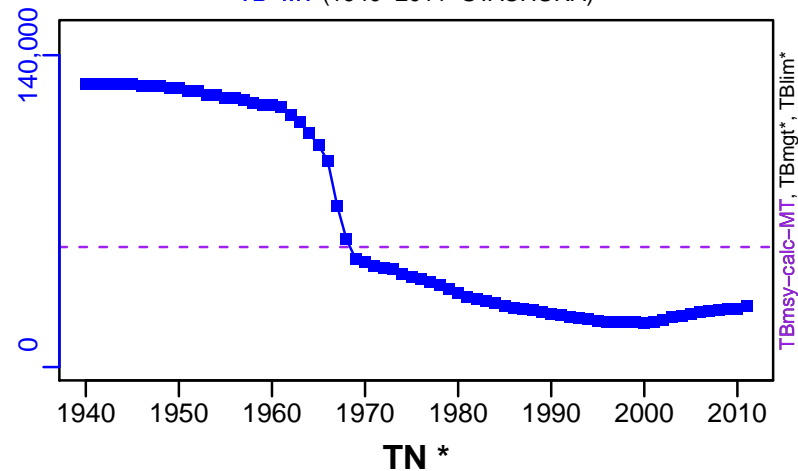
Production (1940–2011–STACHURA)



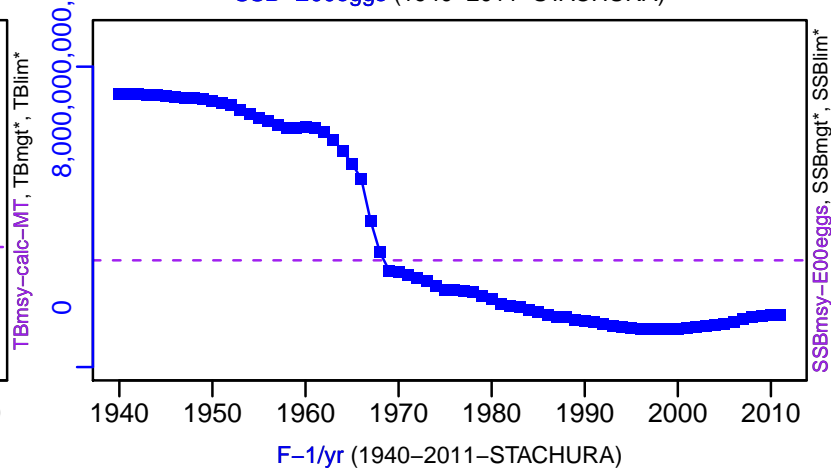
◆ Start Year ◆ End Year * No Data

Pacific ocean perch Pacific Coast [POPERCHPCOAST]

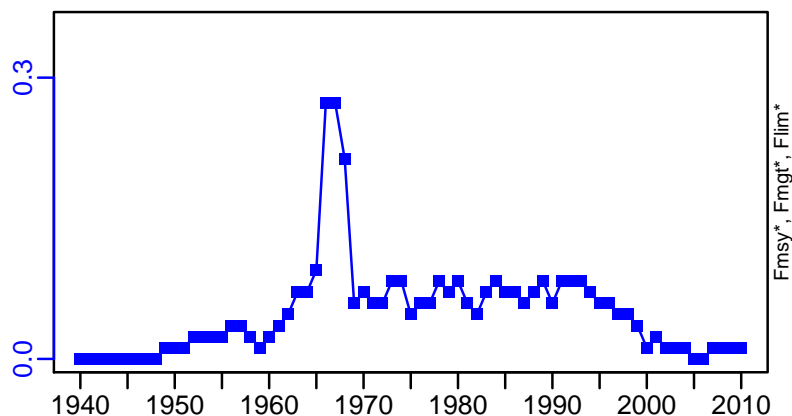
TB-MT (1940-2011-STACHURA)



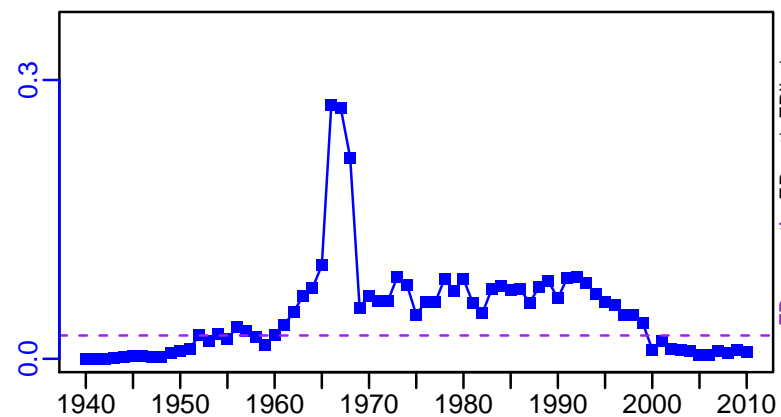
SSB-E00eggs (1940-2011-STACHURA)



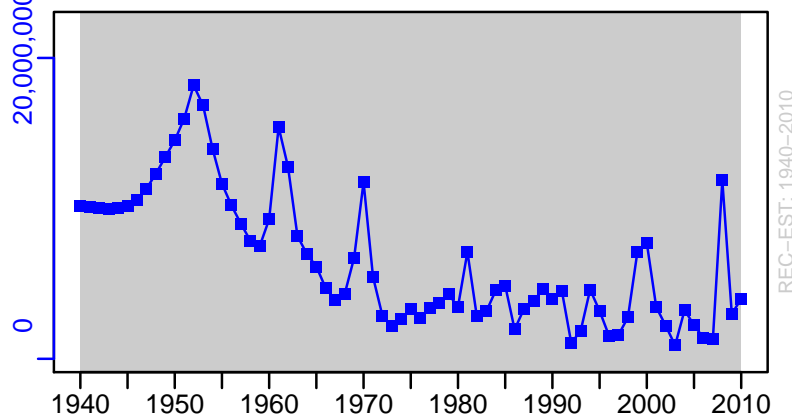
F-1/yr (1940-2011-STACHURA)



ER-calc-ratio (1940-2011-STACHURA)



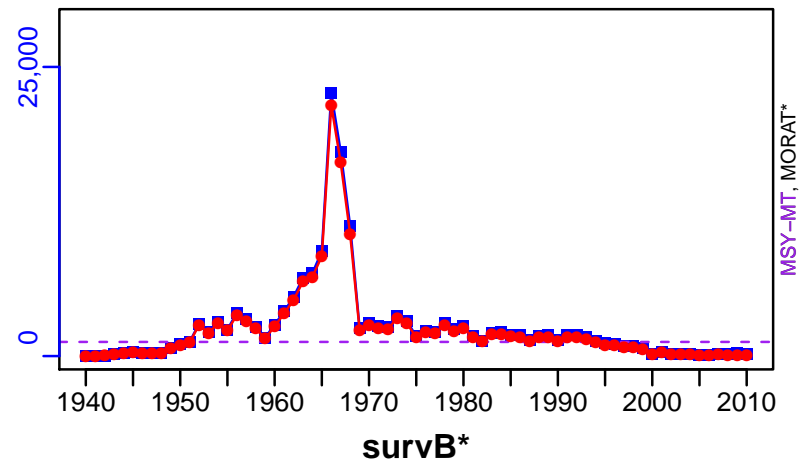
R-E00 (1940-2011-STACHURA)



Pacific ocean perch Pacific Coast [POPERCHPCOAST]

TC-MT, TL-MT, RecC* (1940-2011-STACHURA)

TAC*, Cpair*, Cadv*



EFFORT*



Petrale sole Pacific Coast [PSOLEPCOAST]

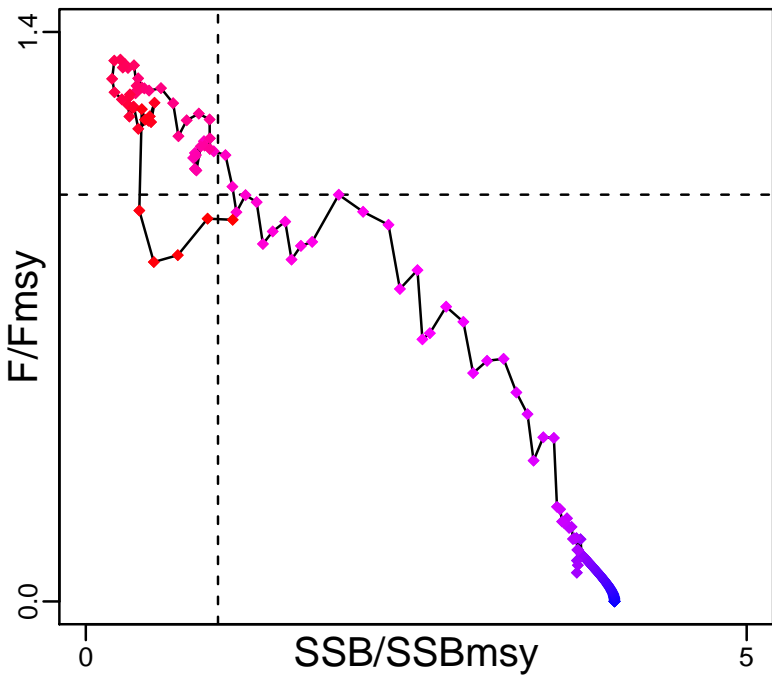
Metadata	
Scientific Name	Eopsetta jordani
Current Assess ID	NWFSC-PSOLEPCOAST-1876-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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	-	-	-

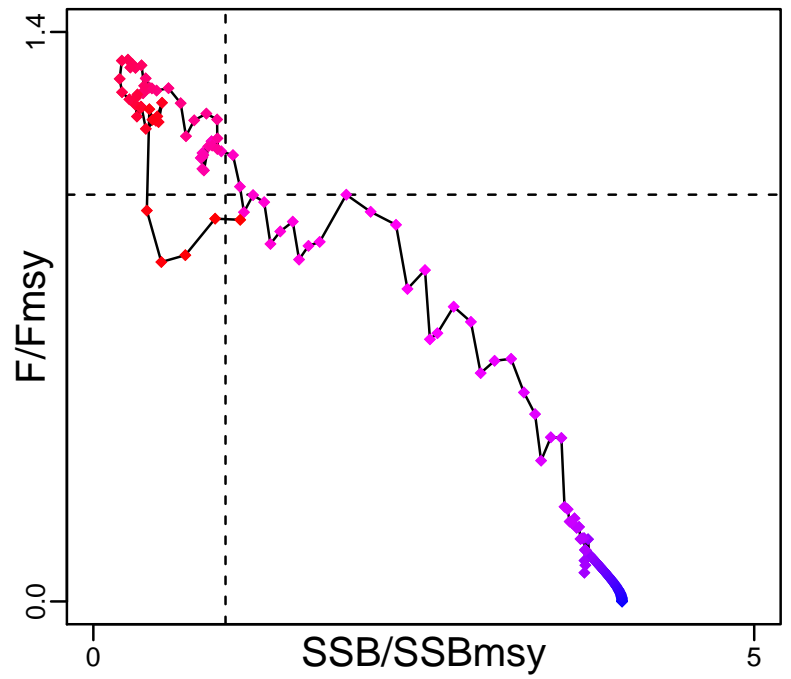
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	19,400	-	3+
SSB	SSB-MT	2015	10,300	Females	-
TN	-	-	-	-	-
R	R-E00	2015	14,600,000	-	0
F	F-1/yr	2015	1	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	2360		
TL	TL-MT	2011	701		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.23		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.94		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Petrale sole Pacific Coast [PSOLEPCOAST]

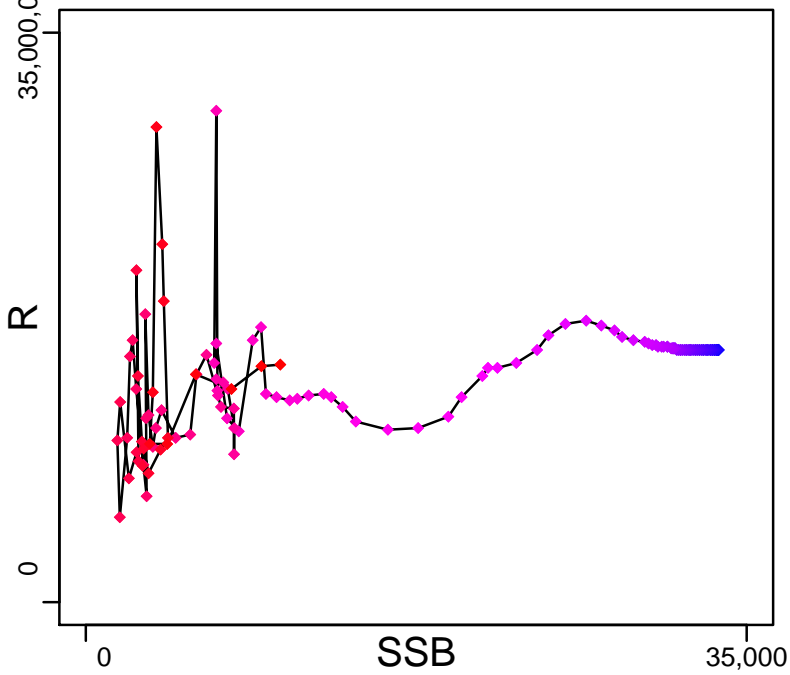
Kobe MSYpref (1876–2015–SISIMP2016)



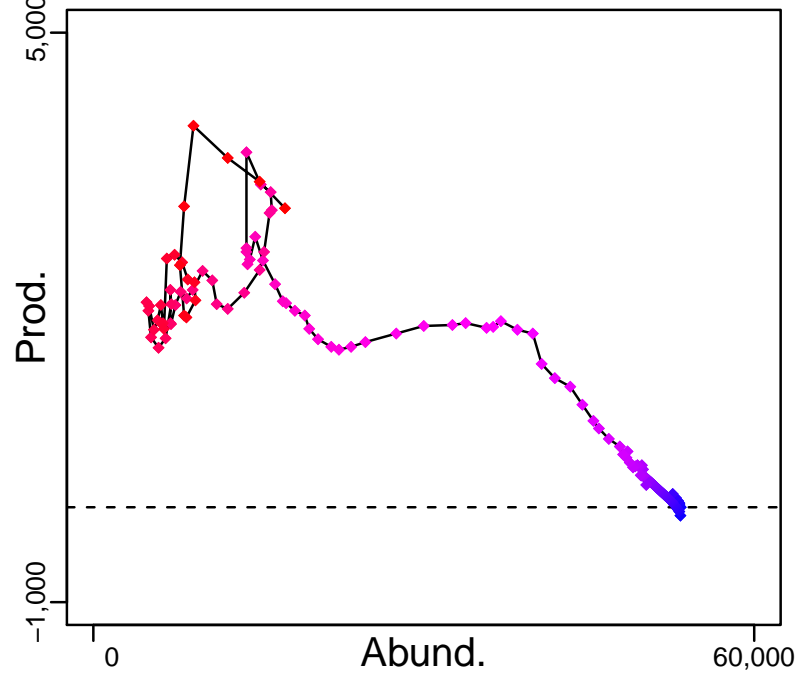
Kobe MGTpref (1876–2015–SISIMP2016)



Spawner Recruit (1876–2015–SISIMP2016)



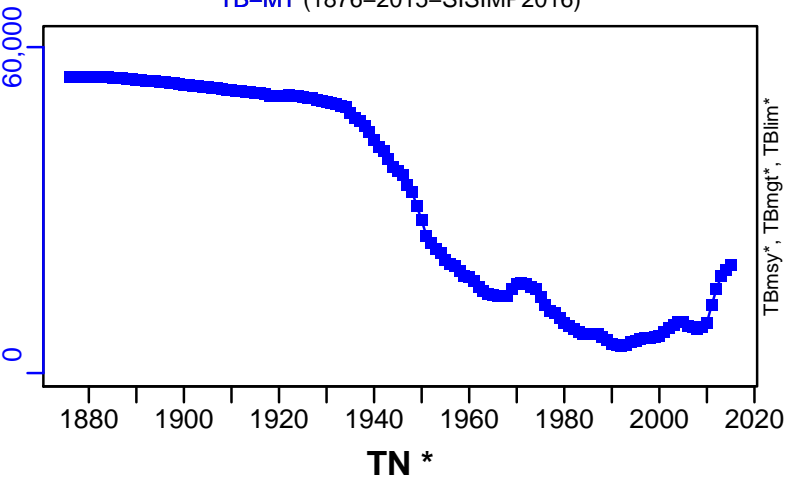
Production (1876–2015–SISIMP2016)



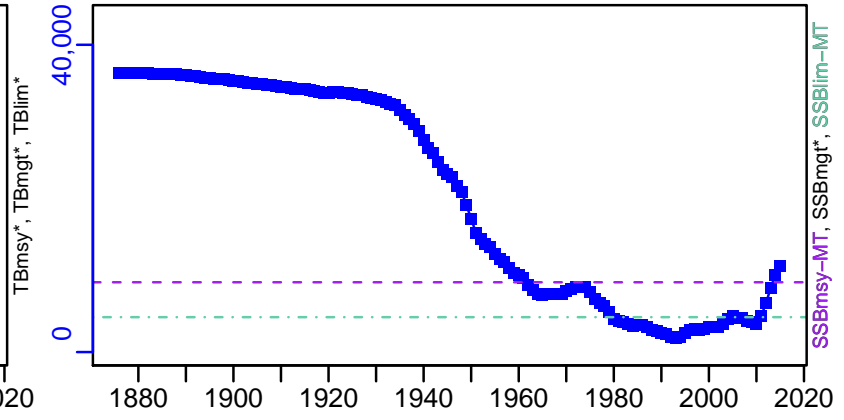
◆ Start Year ◆ End Year * No Data

Petrale sole Pacific Coast [PSOLEPCOAST]

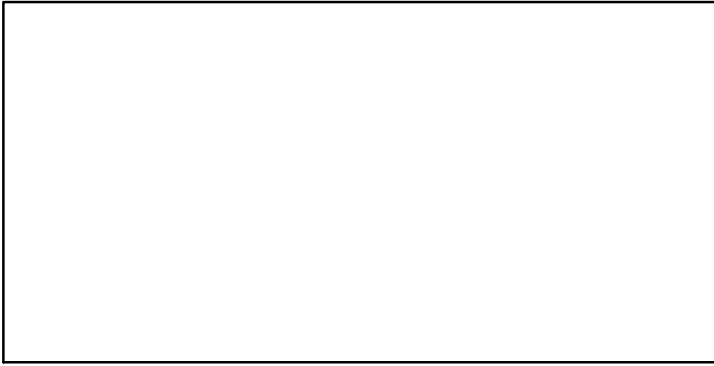
TB-MT (1876–2015–SISIMP2016)



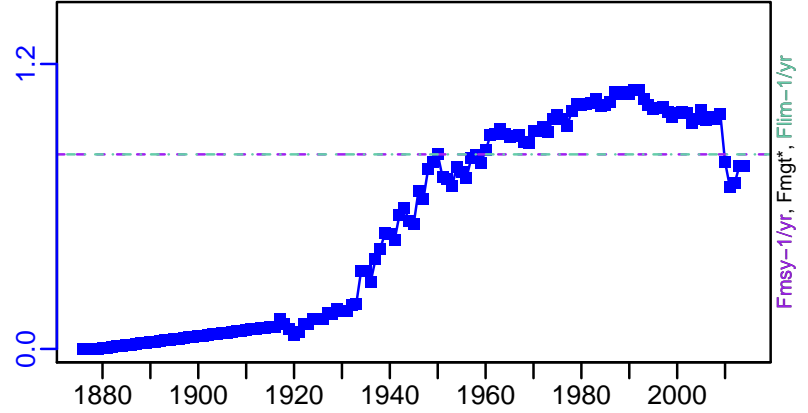
SSB-MT (1876–2015–SISIMP2016)



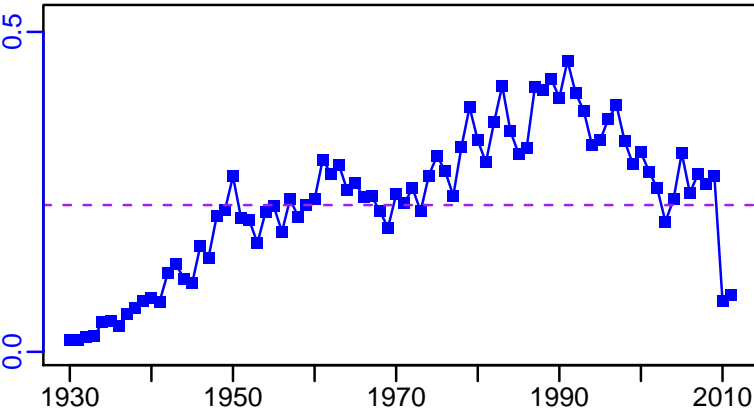
TN *



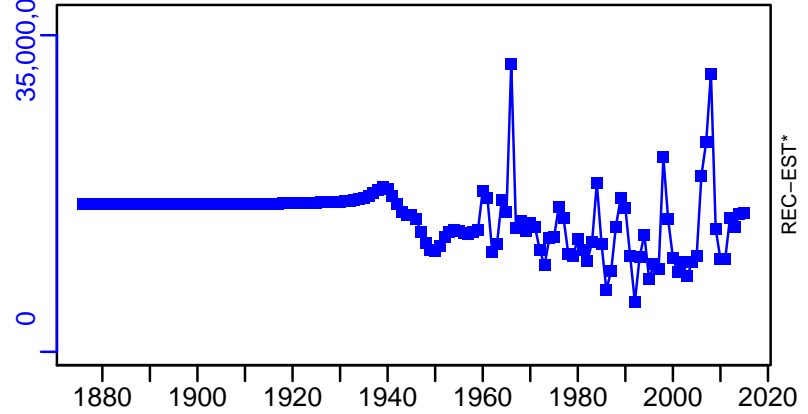
F-1/yr (1876–2015–SISIMP2016)



ER-ratio (1930–2011–CHING)



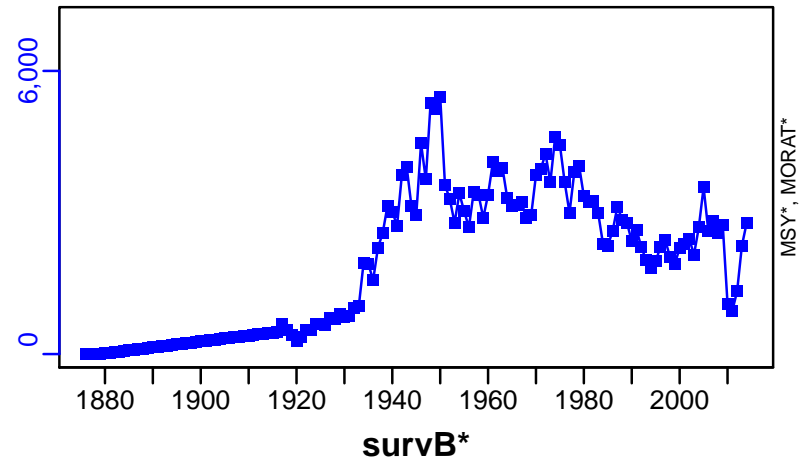
R-E00 (1876–2015–SISIMP2016)



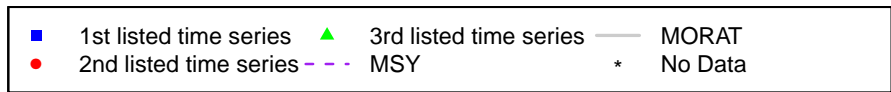
Petrale sole Pacific Coast [PSOLEPCOAST]

TC-MT, TL*, RecC* (1876-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Rex sole Pacific Coast [REXSOLEPCOAST]

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			
Type	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
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2012	0.7
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	18,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2012	0	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.19	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

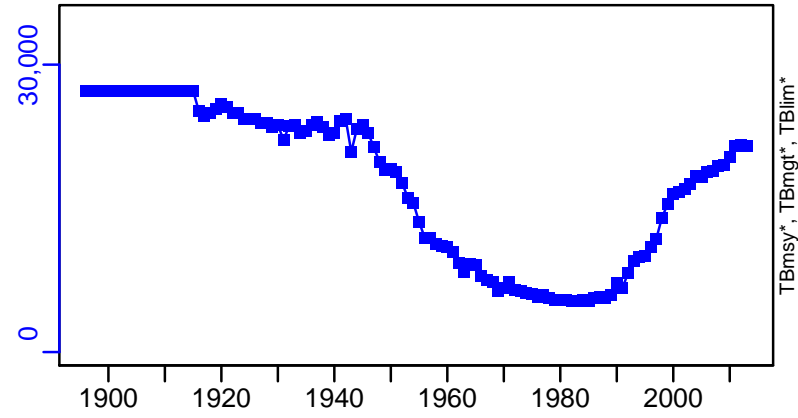


◆ Start Year ◆ End Year * No Data

Rex sole Pacific Coast [REXSOLEPCOAST]

TB-MT (1896–2012–SISIMP2016)

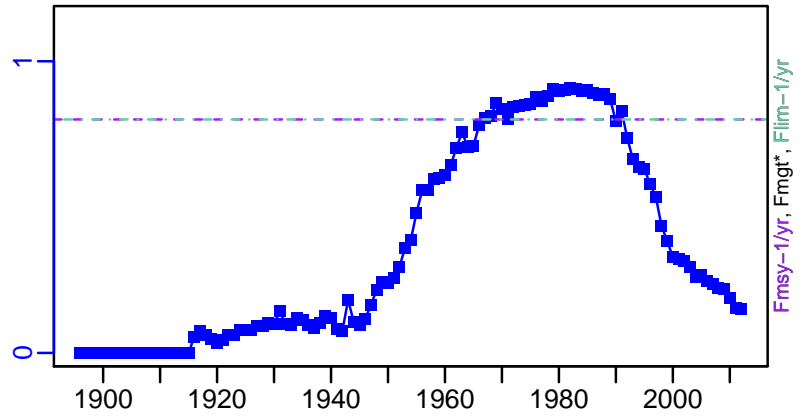
SSB*



TN *



F-1/yr (1896–2012–SISIMP2016)



ER*



Recruits*



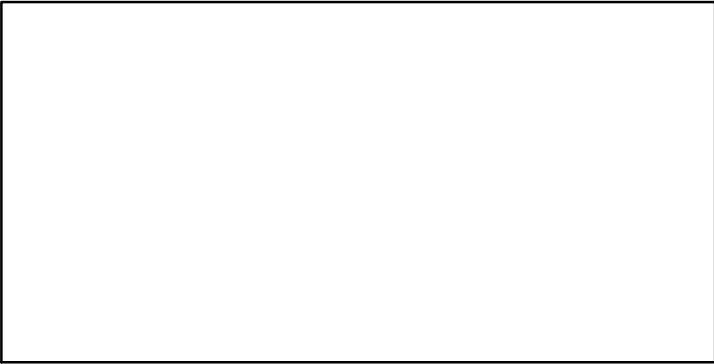
TC*, TL*, RecC*



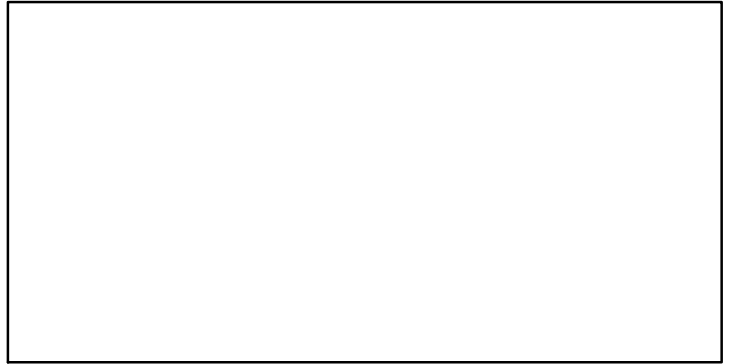
TAC*, Cpair*, Cadv*



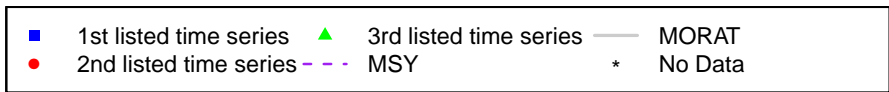
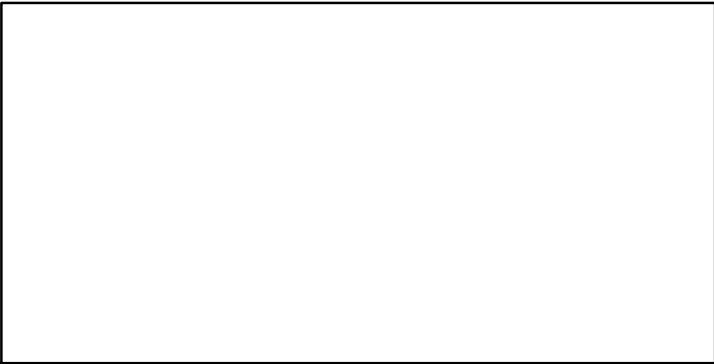
survB*



CPUE*



EFFORT*



Sablefish Pacific Coast [SABLEFPCOAST]

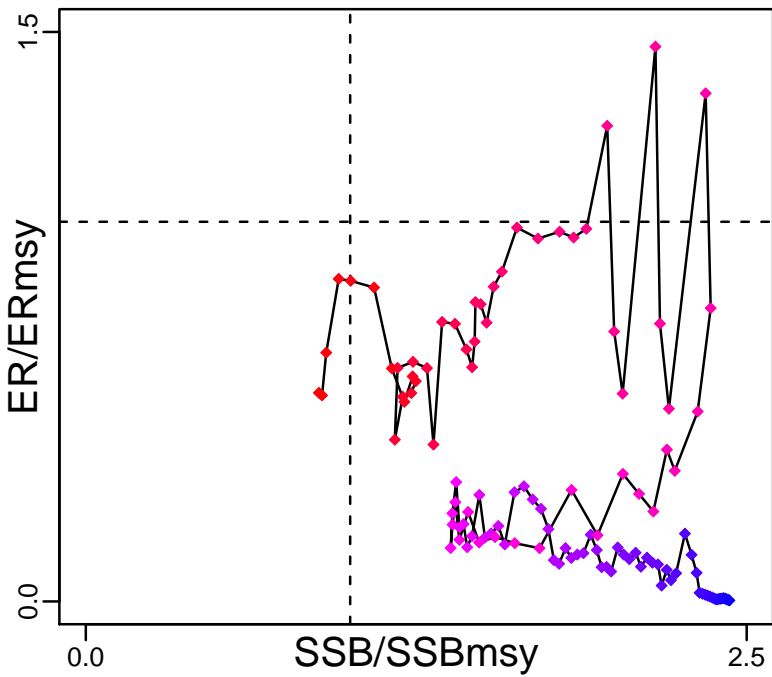
Metadata	
Scientific Name	Anoplopoma fimbria
Current Assess ID	NWFSC-SABLEFPCOAST-1900-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	60,249
Fmsy	Fmsy-1/yr	2015	0.55
ERmsy	ERmsy-conv-ratio	2015	0.05
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	-	-	-

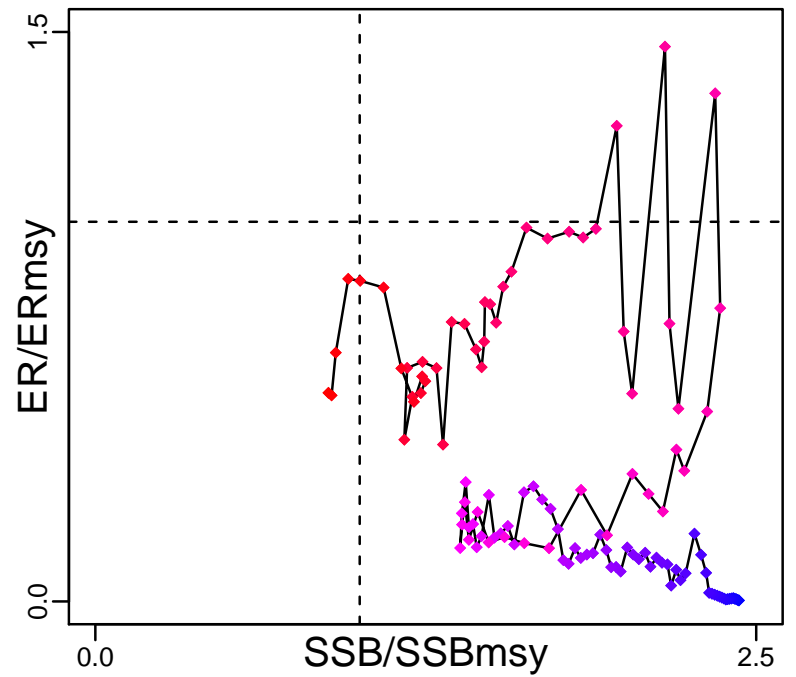
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	168,000	-	4+
SSB	SSB-MT	2015	52,000	Females	-
TN	-	-	-	-	-
R	R-E00	2015	13,100,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	4460		
TL	TL-MT	2011	6820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.86		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.82		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2015	0.55		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sablefish Pacific Coast [SABLEFPCOAST]

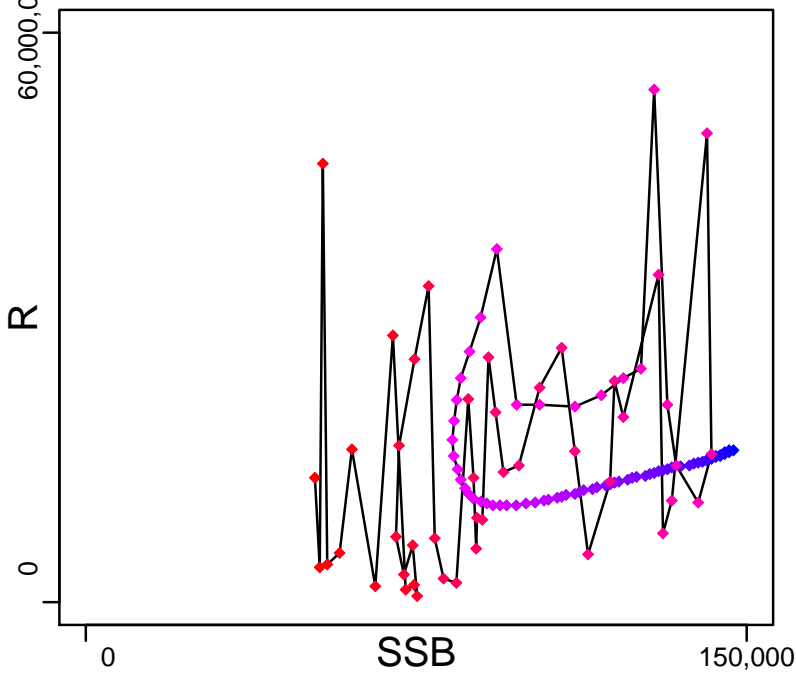
Kobe MSYpref (1900–2015–SISIMP2016)



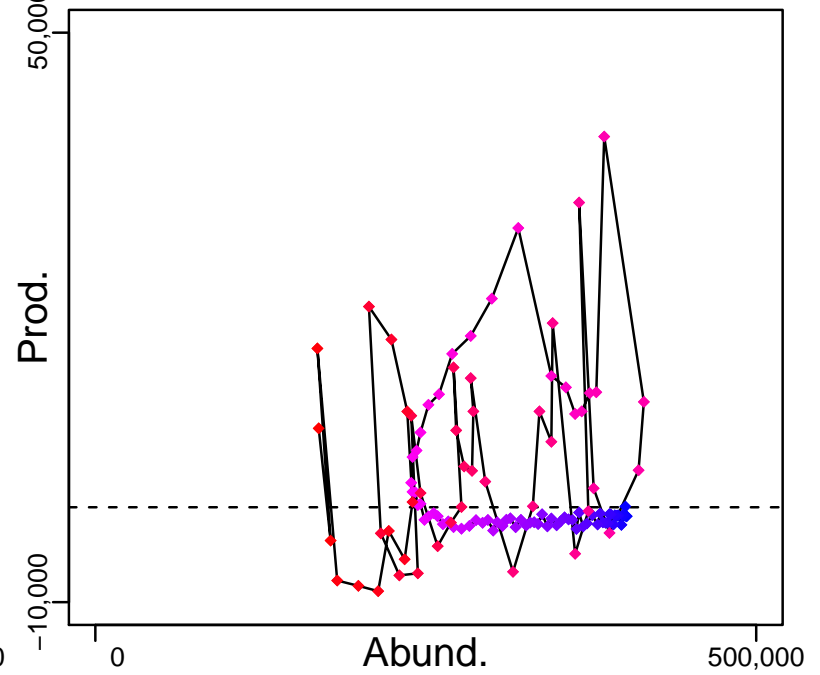
Kobe MGTpref (1900–2015–SISIMP2016)



Spawner Recruit (1900–2015–SISIMP2016)



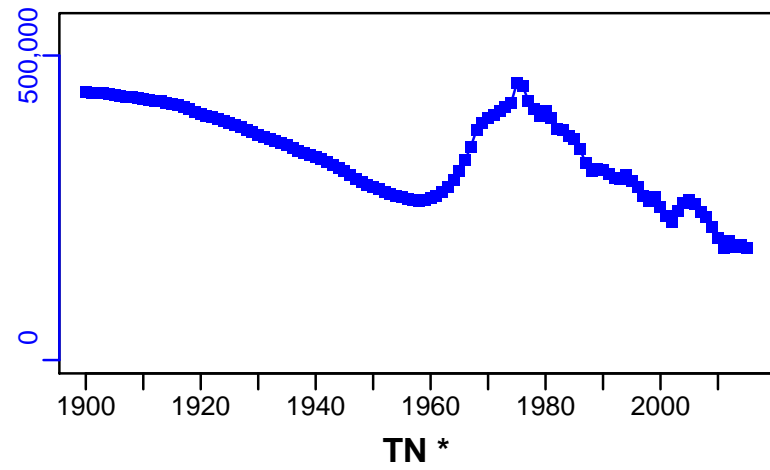
Production (1900–2015–SISIMP2016)



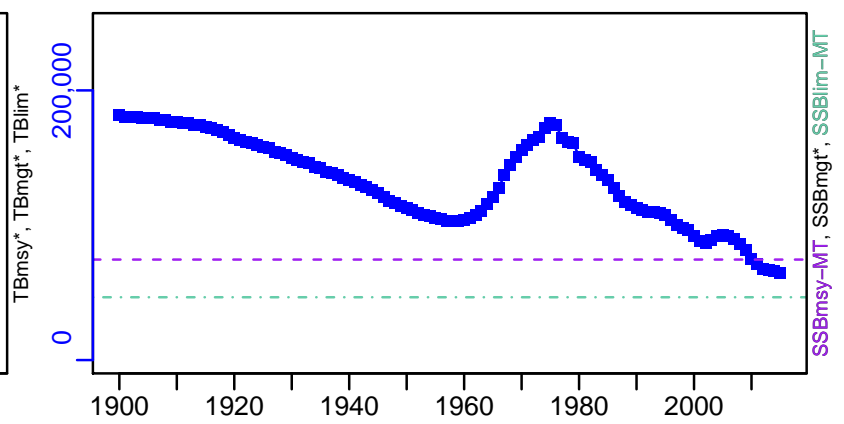
◆ Start Year ◆ End Year * No Data

Sablefish Pacific Coast [SABLEFPCOAST]

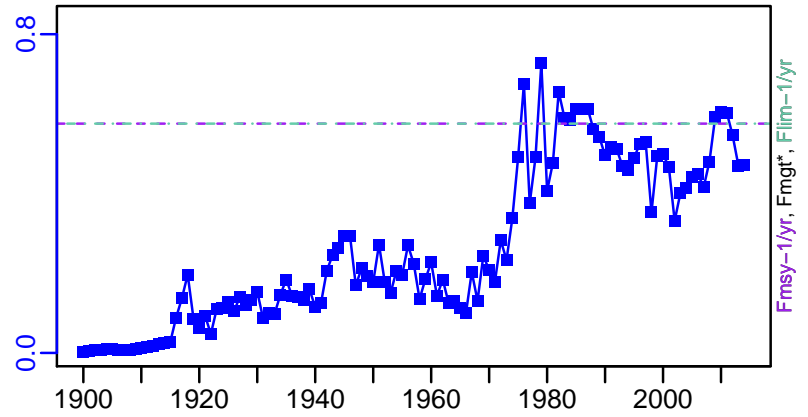
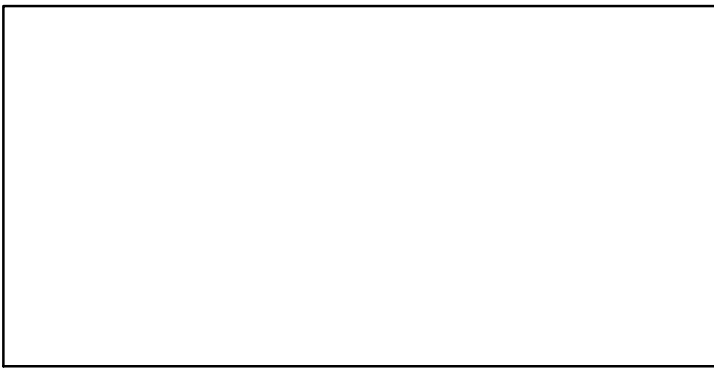
TB-MT (1900–2015–SISIMP2016)



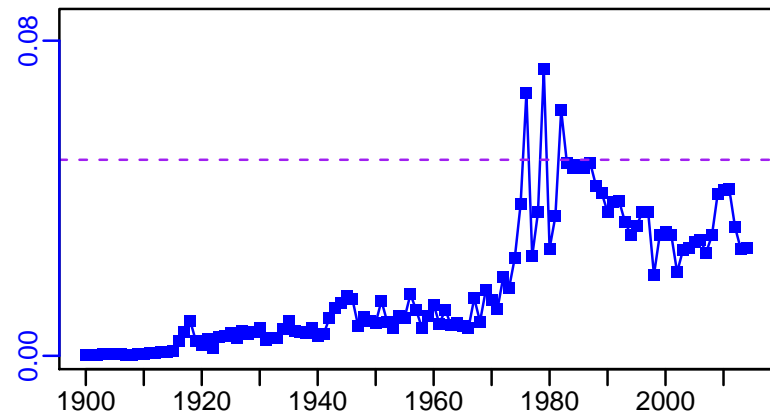
SSB-MT (1900–2015–SISIMP2016)



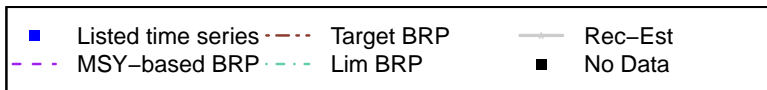
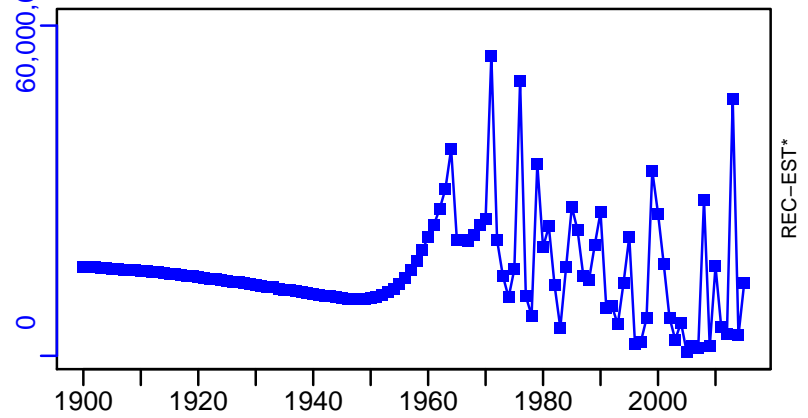
F-1/yr (1900–2015–SISIMP2016)



ER-calc-ratio (1900–2015–SISIMP2016)



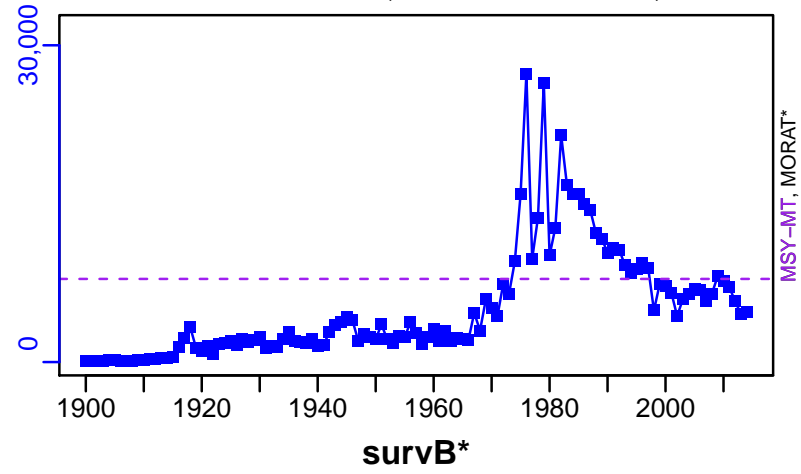
R-E00 (1900–2015–SISIMP2016)



Sablefish Pacific Coast [SABLEFPCOAST]

TC-MT, TL*, RecC* (1900-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Pacific sardine Pacific Coast [SARDPCOAST]

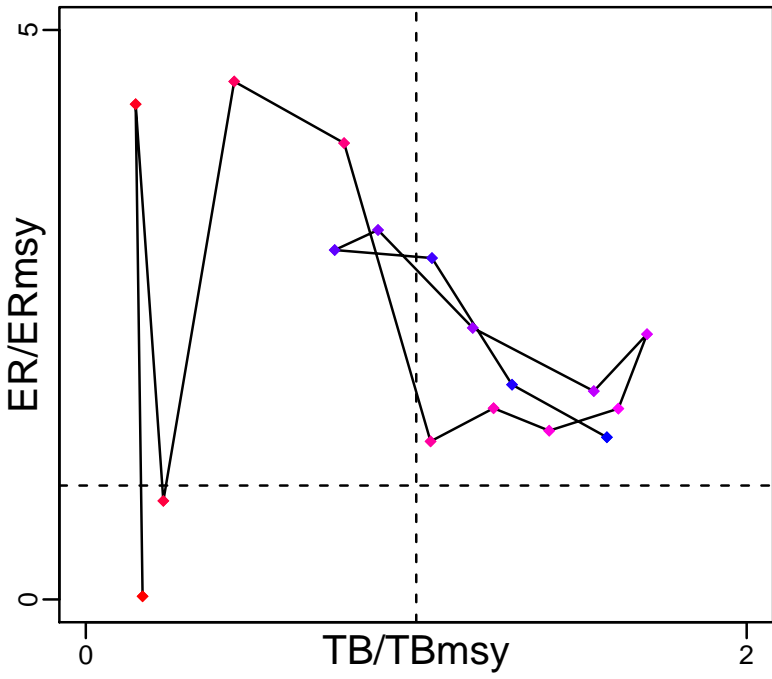
Metadata	
Scientific Name	Sardinops sagax
Current Assess ID	SWFSC-SARDPCOAST-1994-2016-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2007, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	575,022
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	32,285
M	M-1/yr	2007	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	50,000
Flim	-	-	-
ERlim	-	-	-

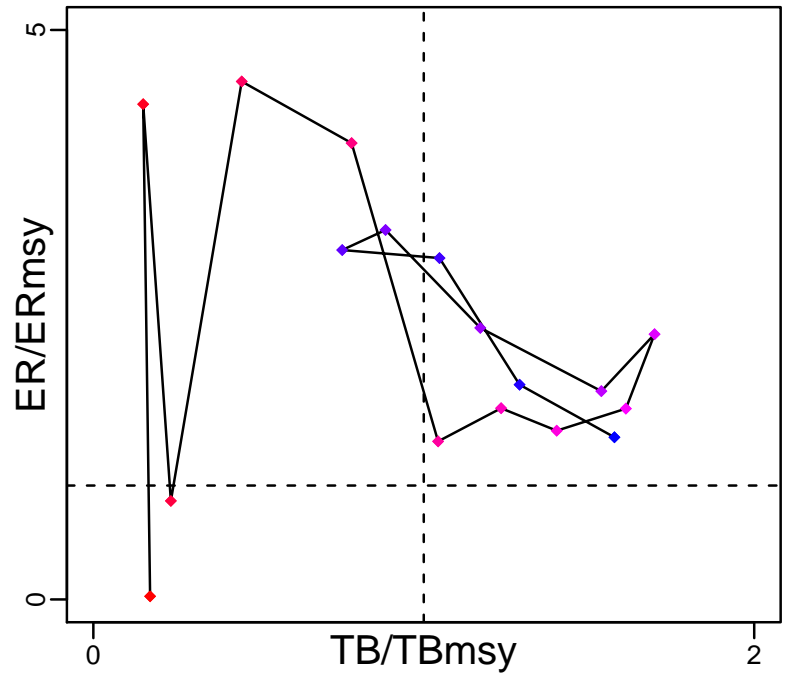
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	98,800	-	0+
SSB	SSB-MT	2016	65,100	-	-
TN	-	-	-	-	-
R	R-MT	2016	31,200	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	153	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.17	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.03	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Pacific sardine Pacific Coast [SARDPCOAST]

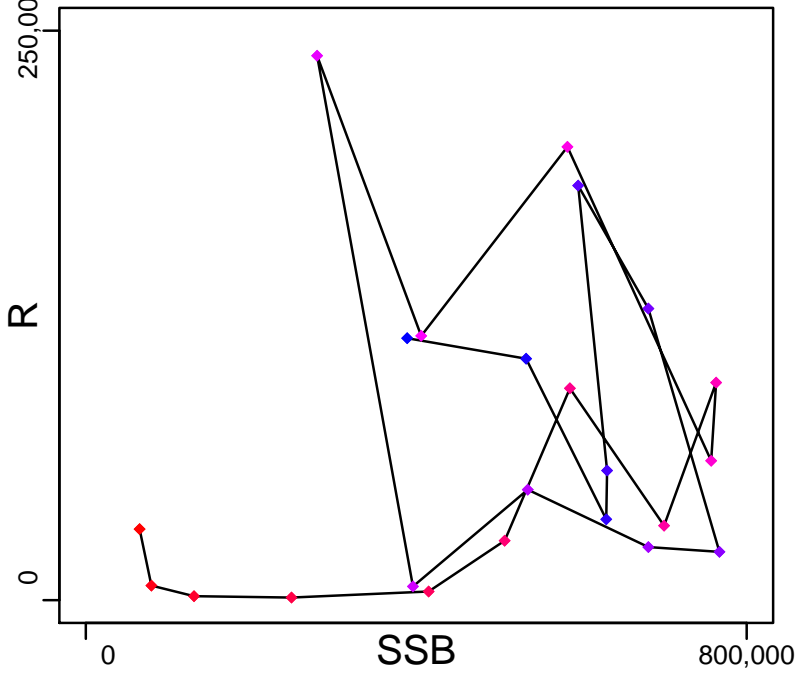
Kobe MSY_{pref} (1994–2016–SISIMP2016)



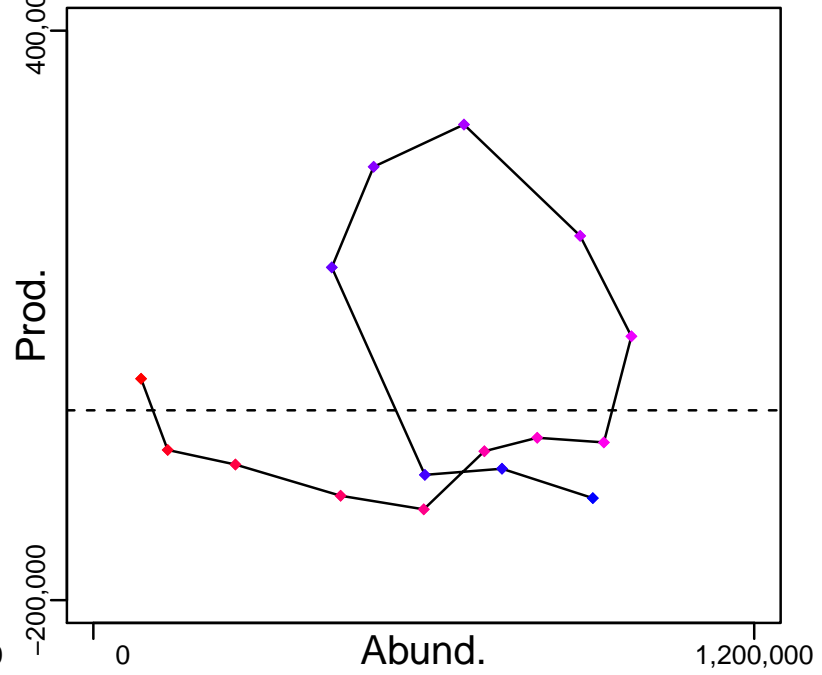
Kobe MGT_{pref} (1994–2016–SISIMP2016)



Spawner Recruit (1994–2016–SISIMP2016)



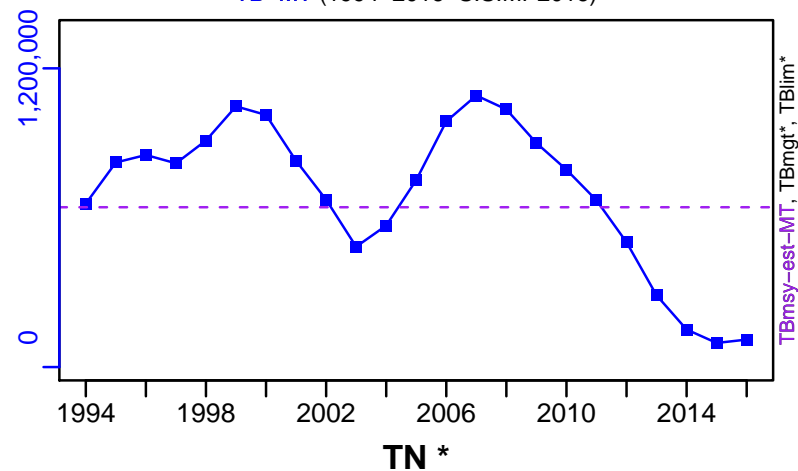
Production (1994–2016–SISIMP2016)



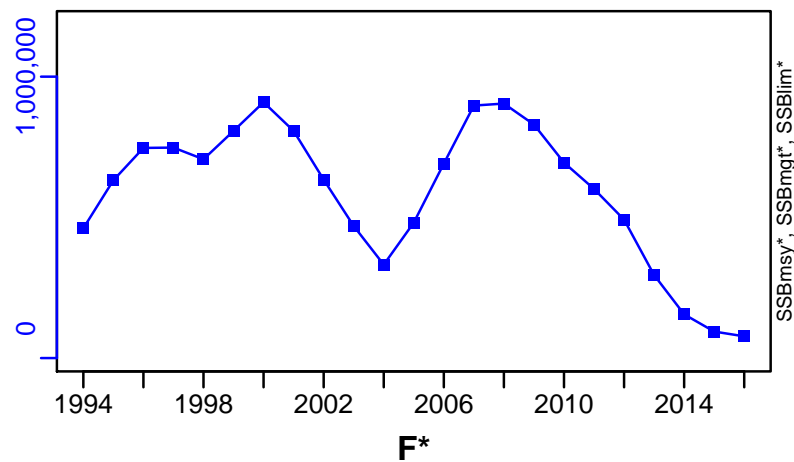
◆ Start Year ◆ End Year * No Data

Pacific sardine Pacific Coast [SARDPCOAST]

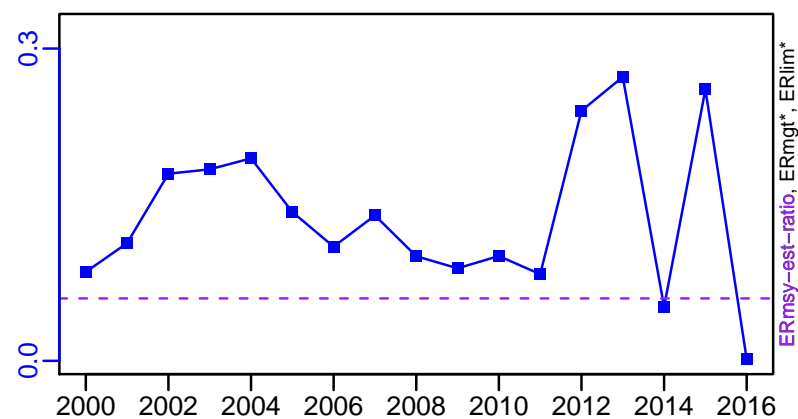
TB-MT (1994–2016–SISIMP2016)



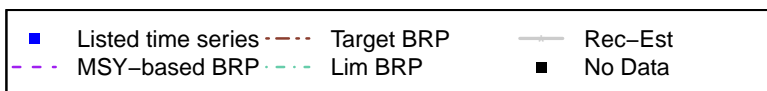
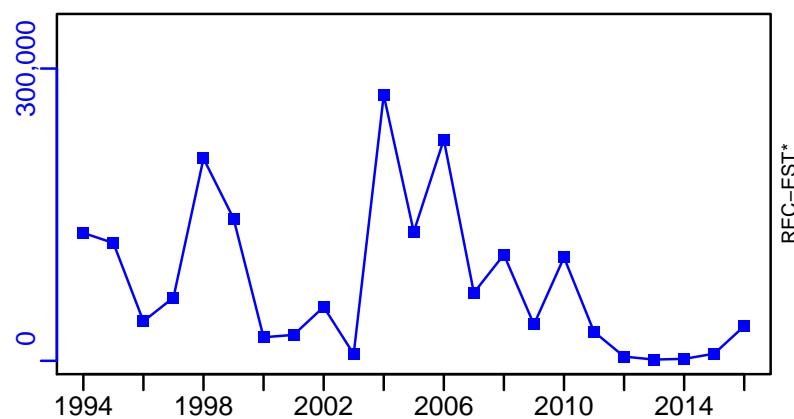
SSB-MT (1994–2016–SISIMP2016)



ER-calc-ratio (1994–2016–SISIMP2016)

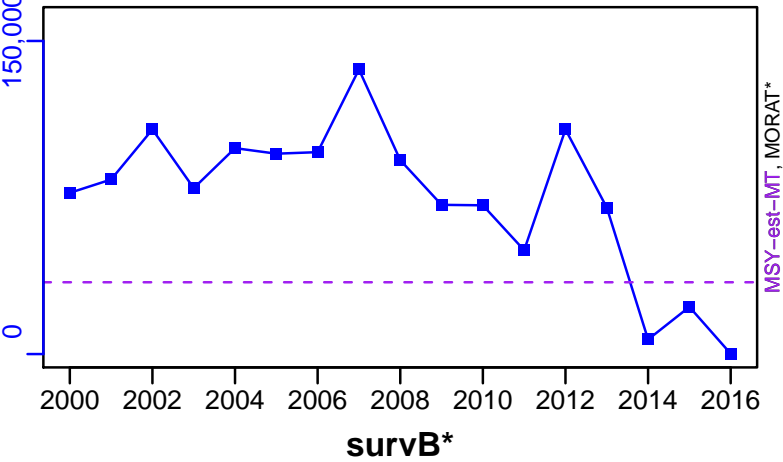


R-MT (1994–2016–SISIMP2016)



Pacific sardine Pacific Coast [SARDPCOAST]

TC-MT, TL*, RecC* (1994-2016-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

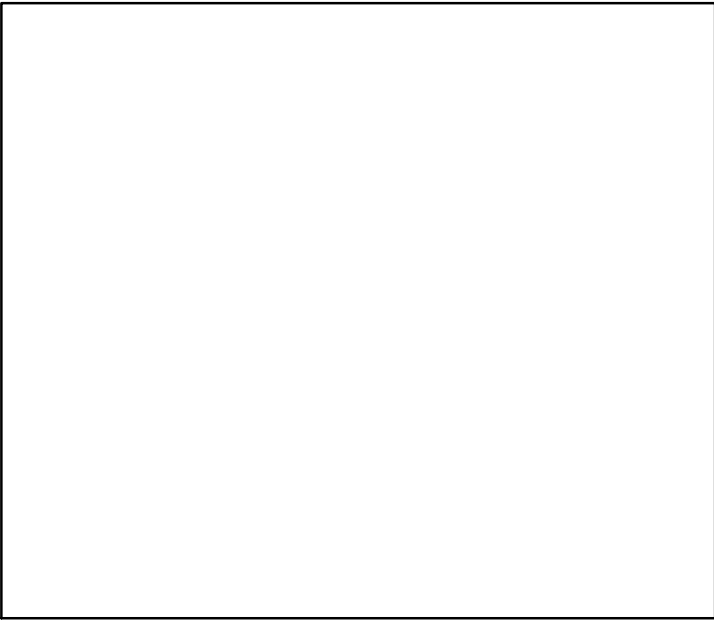
Metadata	
Scientific Name	Sebastes jordani
Current Assess ID	SWFSC-SBELLYROCKPCOAST-1950-2005-BRANCH
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	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	TB-MT/TB0-MT	2005	1.77		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

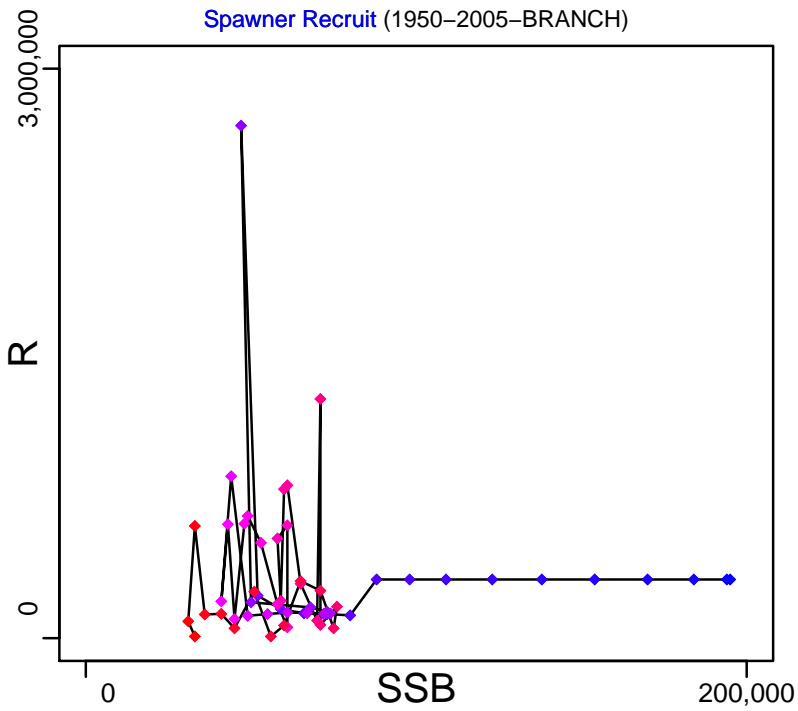
Kobe MSY*



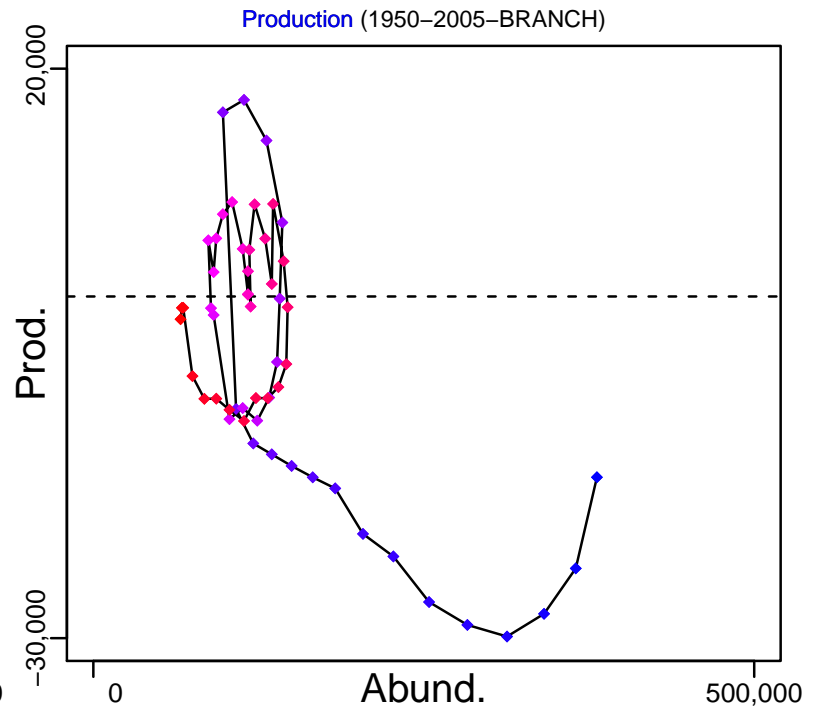
Kobe MGT*



Spawner Recruit (1950–2005–BRANCH)



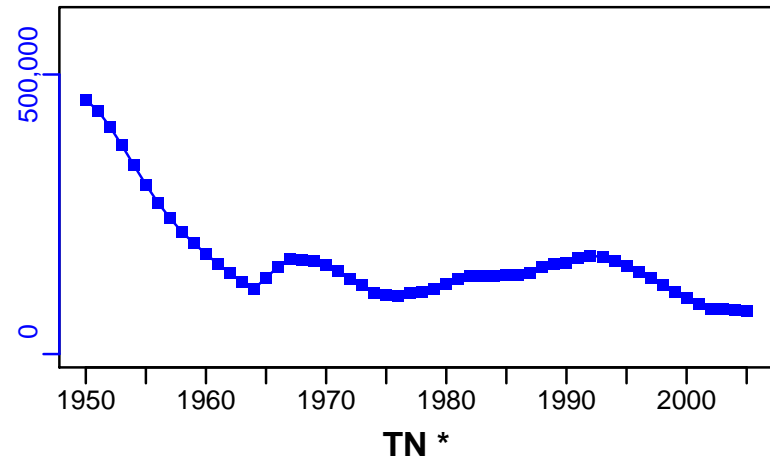
Production (1950–2005–BRANCH)



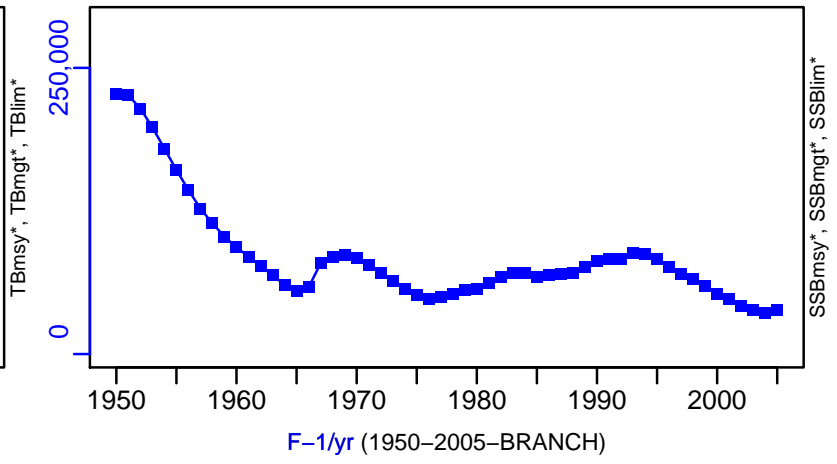
◆ Start Year ◆ End Year * No Data

Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

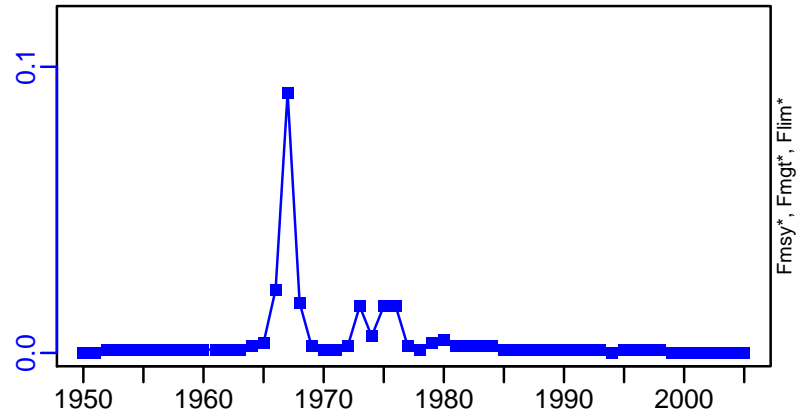
TB-MT (1950-2005-BRANCH)



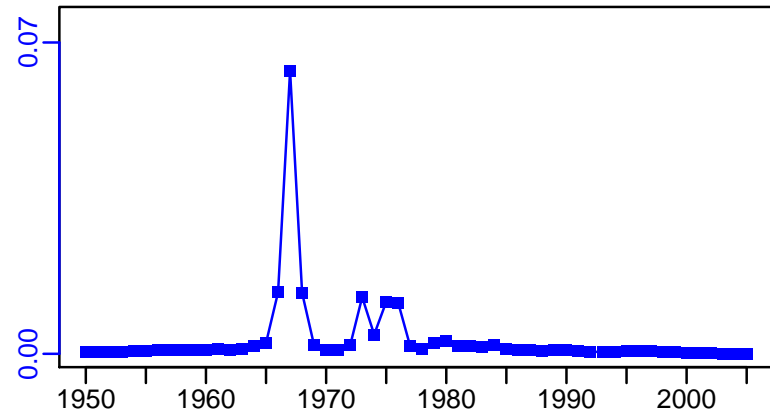
SSB-MT (1950-2005-BRANCH)



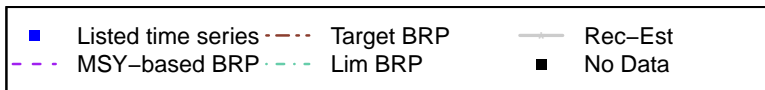
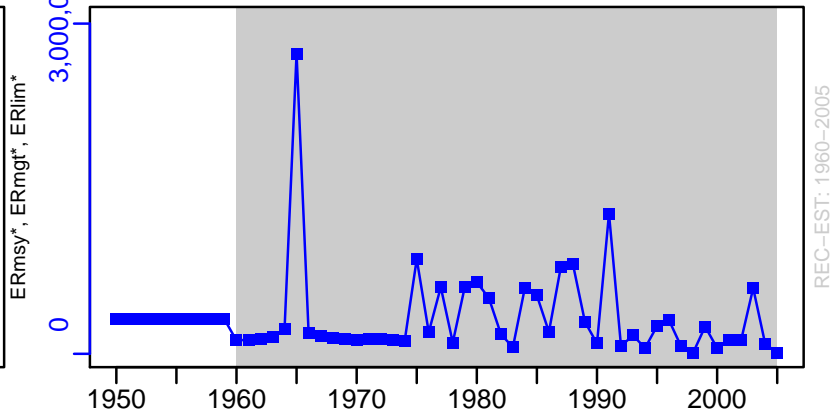
F-1/yr (1950-2005-BRANCH)



ER-ratio (1950-2005-BRANCH)



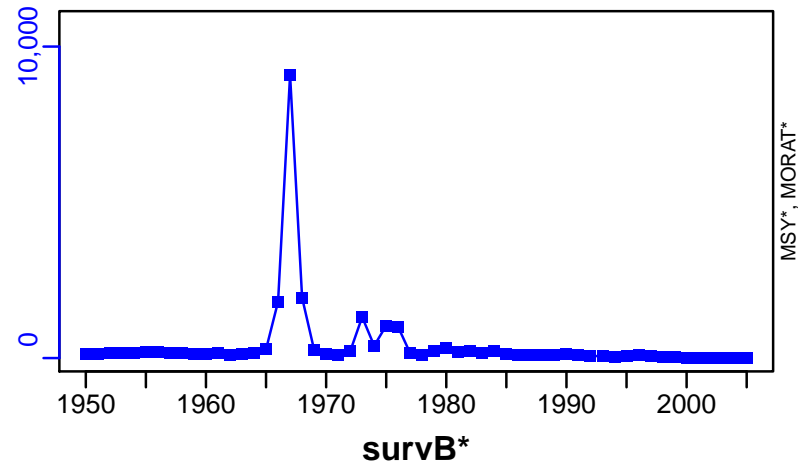
R-E00 (1950-2005-BRANCH)



Shortbelly rockfish Pacific Coast [SBELLYROCKPCOAST]

TC-MT, TL*, RecC* (1950-2005-BRANCH)

TAC*, Cpair*, Cadv*



EFFORT*



Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]

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

Reference Points			
Type	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	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	12,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2012	0	-	-
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	-	-	-		

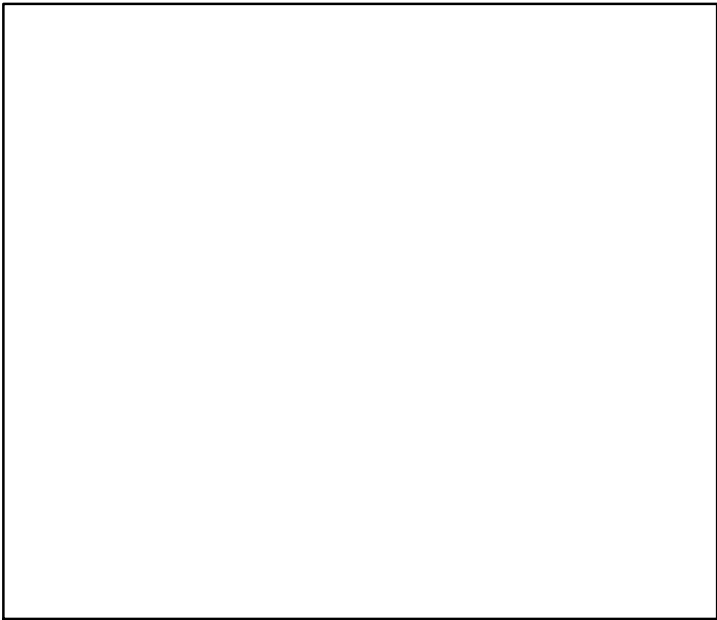
Kobe MSY*



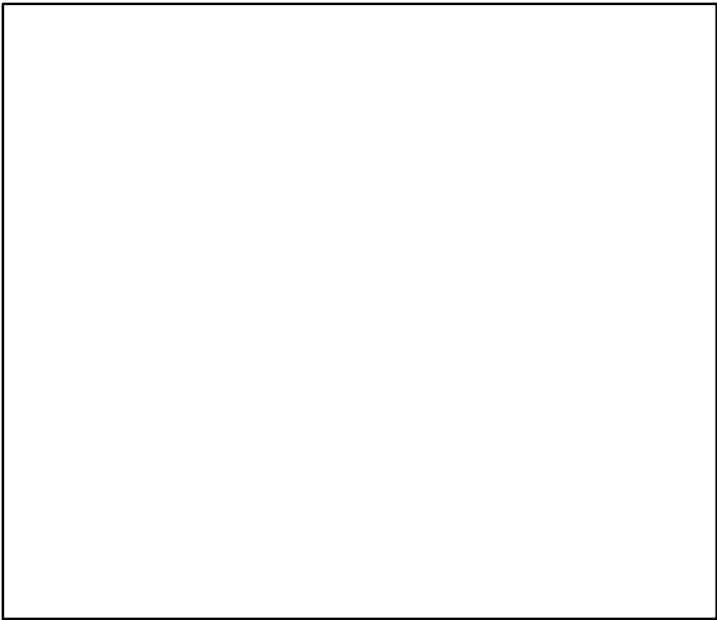
Kobe MGT*



Spawner Recruit*



Production*

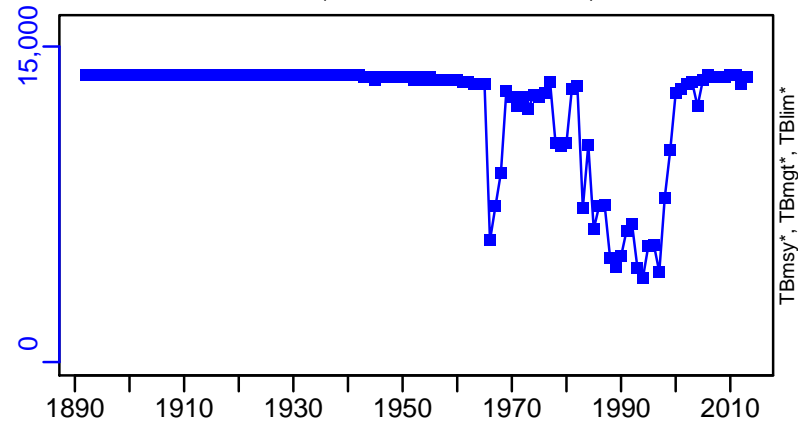


◆ Start Year ◆ End Year * No Data

Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]

TB-MT (1892-2012-SISIMP2016)

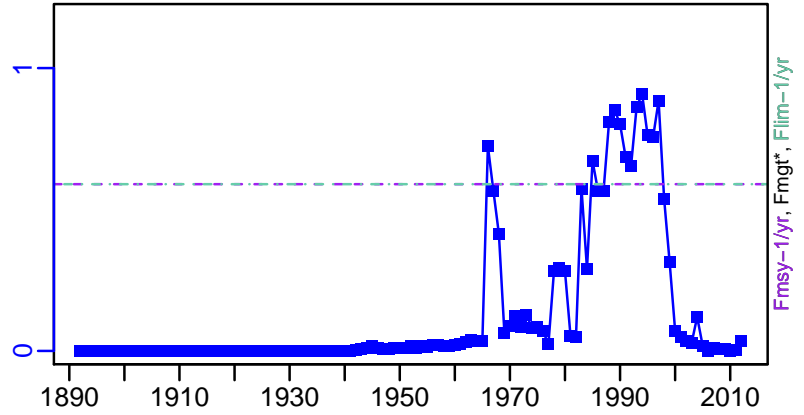
SSB*



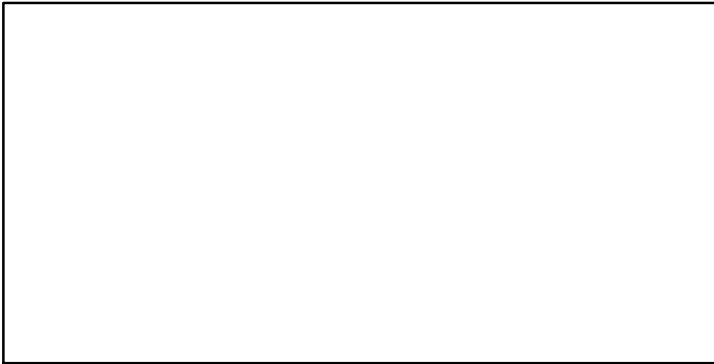
TN *



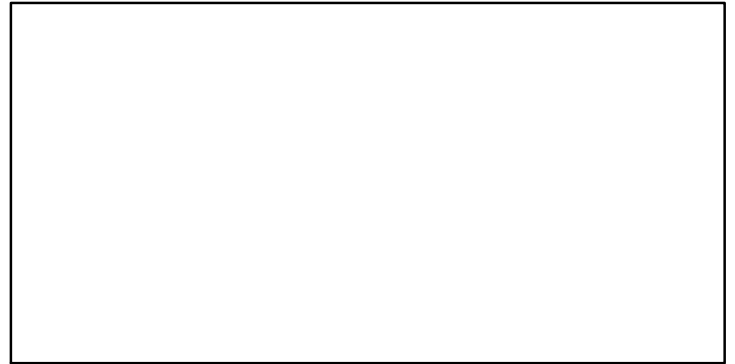
F-1/yr (1892-2012-SISIMP2016)



ER*

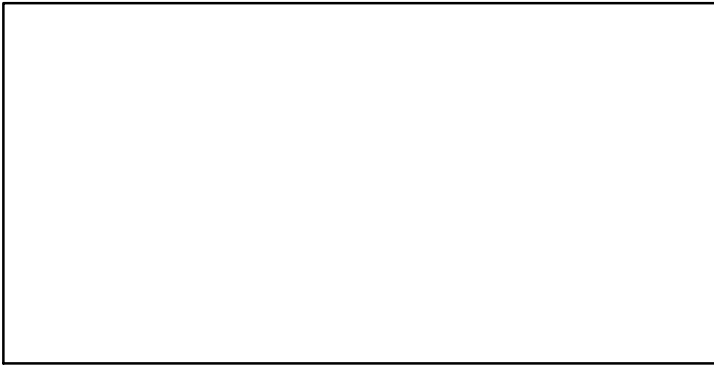


Recruits*

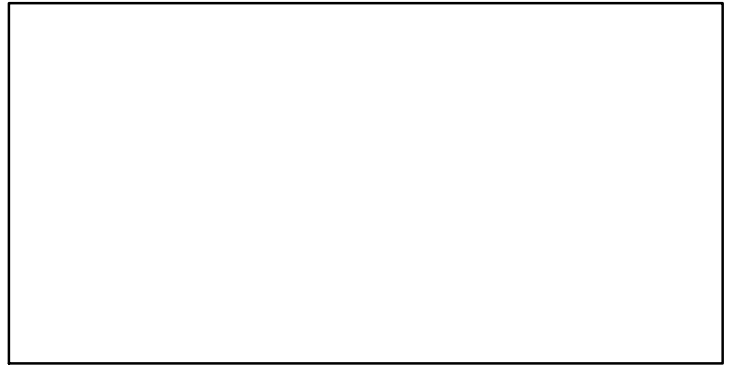


Sharpchin rockfish Pacific Coast [SHCROCKPCOAST]

TC*, TL*, RecC*



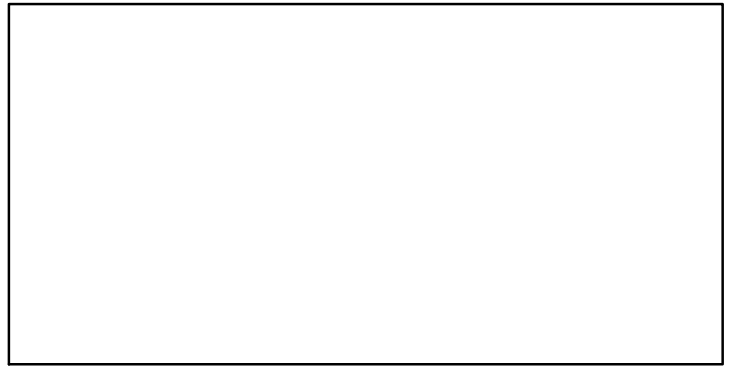
TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



Splitnose Rockfish Pacific Coast [SNROCKPCOAST]

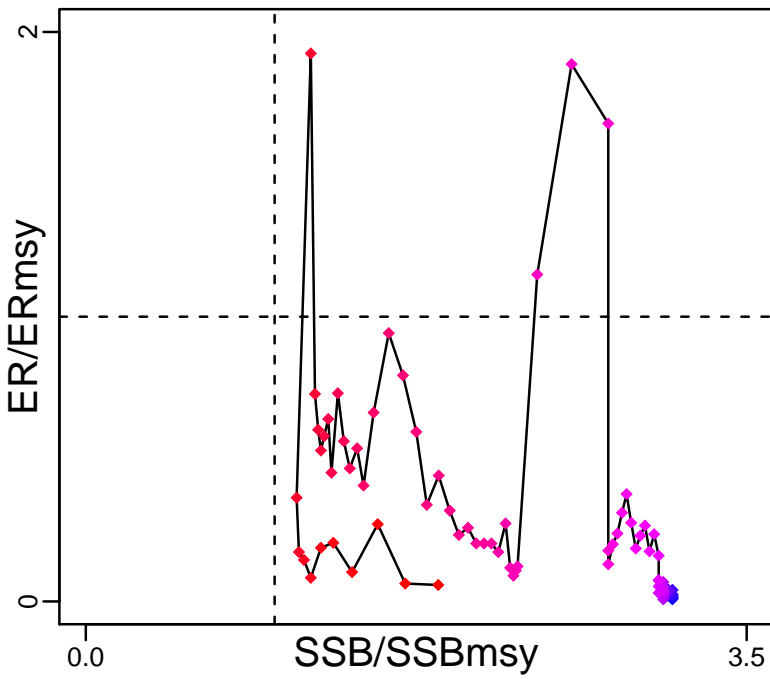
Metadata	
Scientific Name	Sebastes diploproa
Current Assess ID	NWFSC-SNROCKPCOAST-1905-2009-STANTON
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00eggs	2009	4.12×10^9
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2009	0.04
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2009	87,584
SSB0	-	-	-
MSY	MSY-MT	2009	1268
M	M-1/yr	2009	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

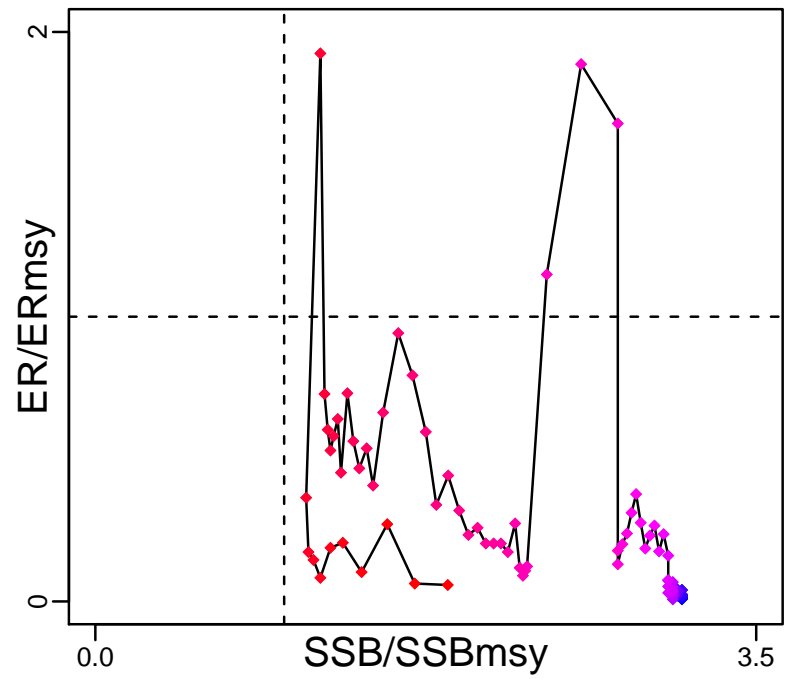
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	70,200	-	4+
SSB	SSB-E00eggs	2009	8.43×10^9	Females	-
TN	-	-	-	-	-
R	R-E00	2009	12,700,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	66		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2009	2.05		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Splitnose Rockfish Pacific Coast [SNROCKPCOAST]

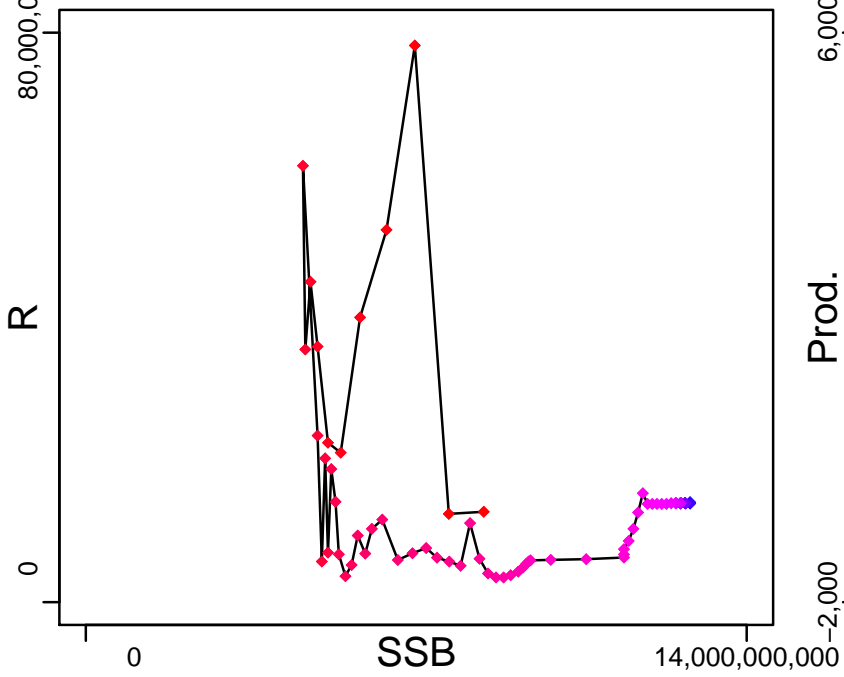
Kobe MSYpref (1905–2009–STANTON)



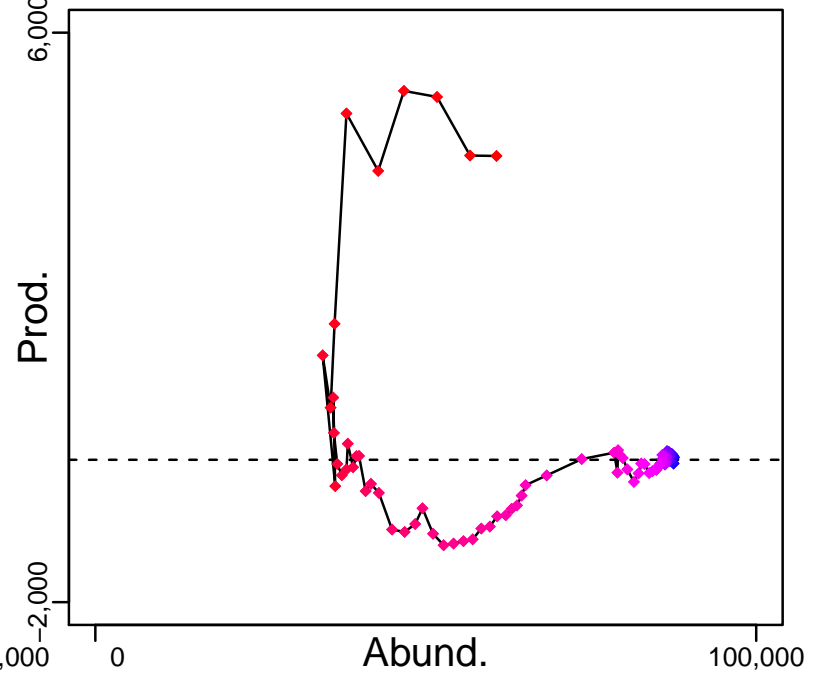
Kobe MGTpref (1905–2009–STANTON)



Spawner Recruit (1905–2009–STANTON)



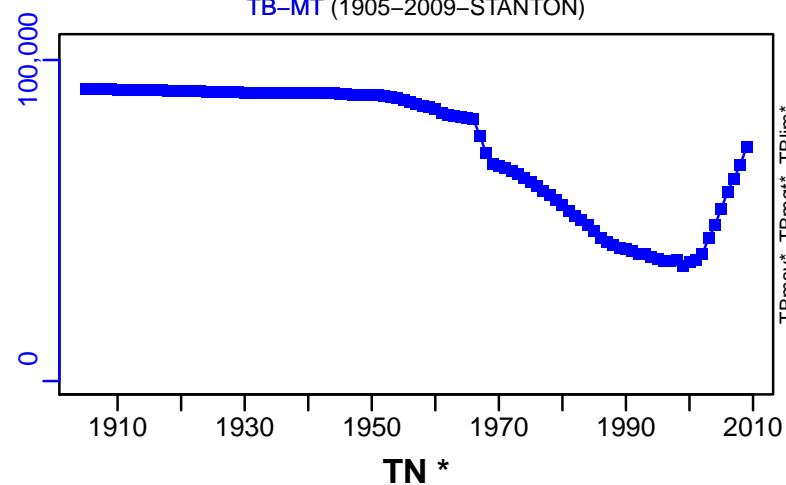
Production (1905–2009–STANTON)



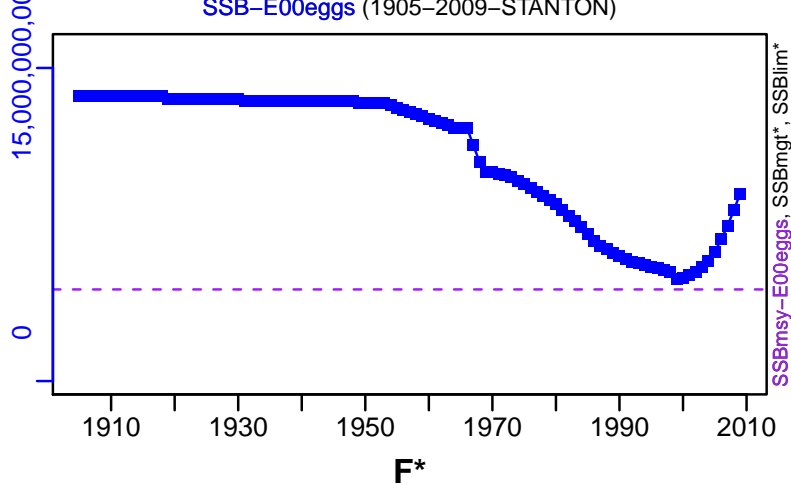
◆ Start Year ◆ End Year * No Data

Splitnose Rockfish Pacific Coast [SNROCKPCOAST]

TB-MT (1905-2009-STANTON)



SSB-E00eggs (1905-2009-STANTON)



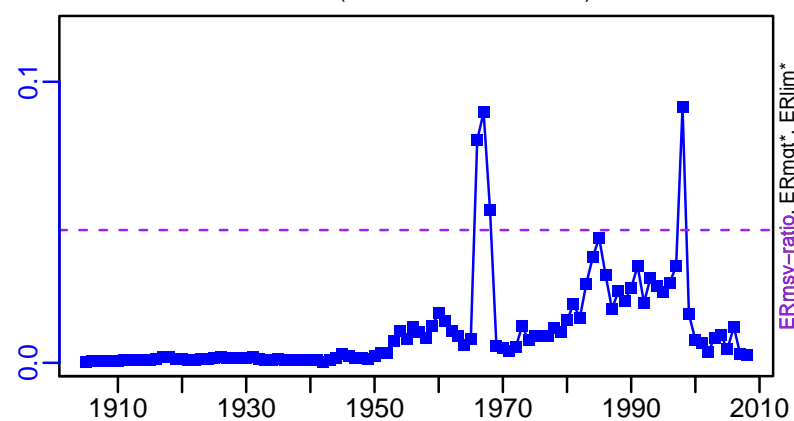
TN *



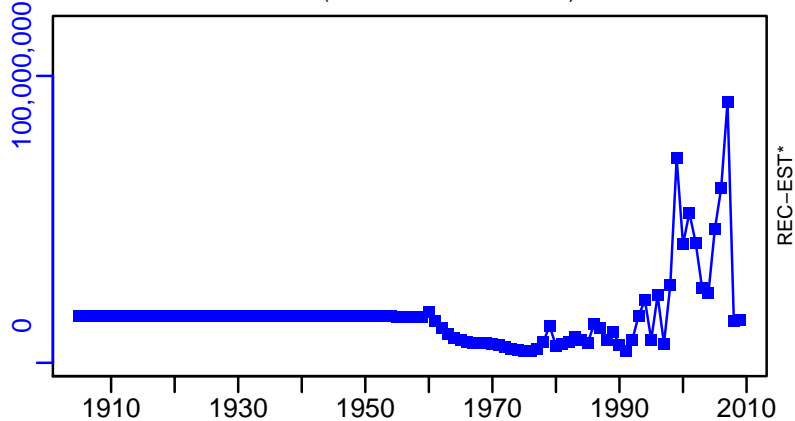
F*



ER-ratio (1905-2009-STANTON)



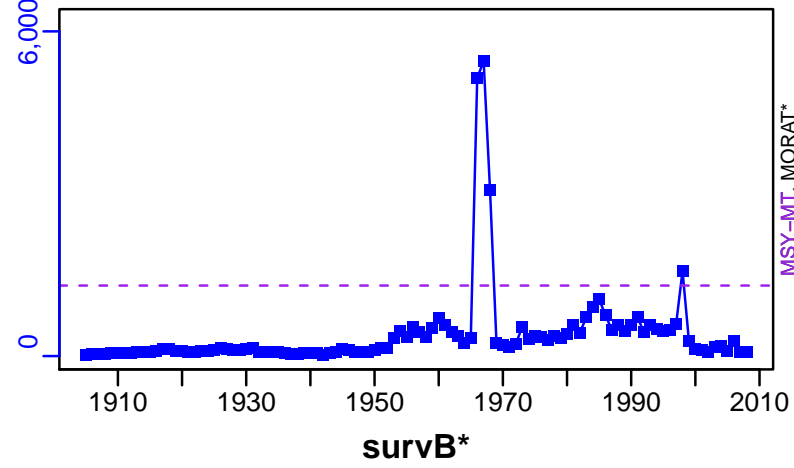
R-E00 (1905-2009-STANTON)



Splitnose Rockfish Pacific Coast [SNROCKPCOAST]

TC-MT, TL*, RecC* (1905-2009-STANTON)

TAC*, Cpair*, Cadv*



EFFORT*



Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

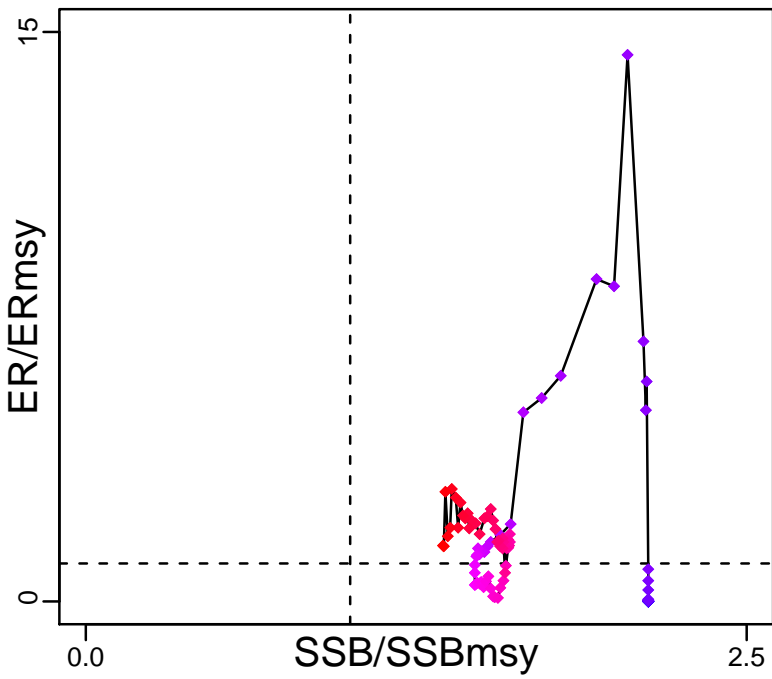
Metadata	
Scientific Name	Squalus suckleyi
Current Assess ID	NWFSC-SPSDOGPCOAST-1916-2011-STACHURA
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSFmsy-E00	2011	33,229,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2011	0.01
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	304,105
SSB0	-	-	-
MSY	MSY-MT	2011	848
M	M-1/yr	2011	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

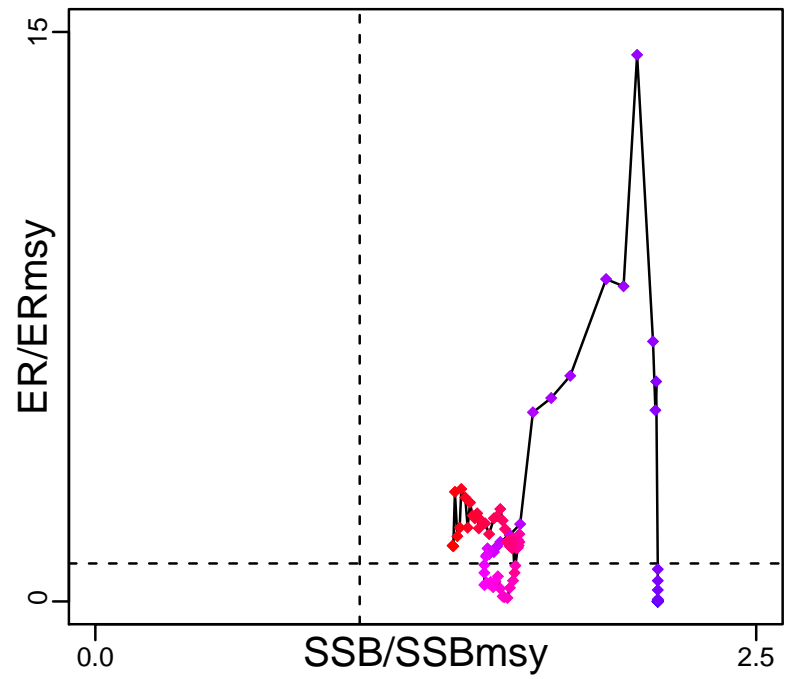
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	217,000	-	1+
SSB	SSF-E00	2011	44,600,000	Females	35.5+
TN	-	-	-	-	-
R	R-E00	2011	17,500,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2011	0	-	-
TC	TC-MT	2011	1160		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSF-E00/SSFmsy-E00	2011	1.34		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	1.47		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

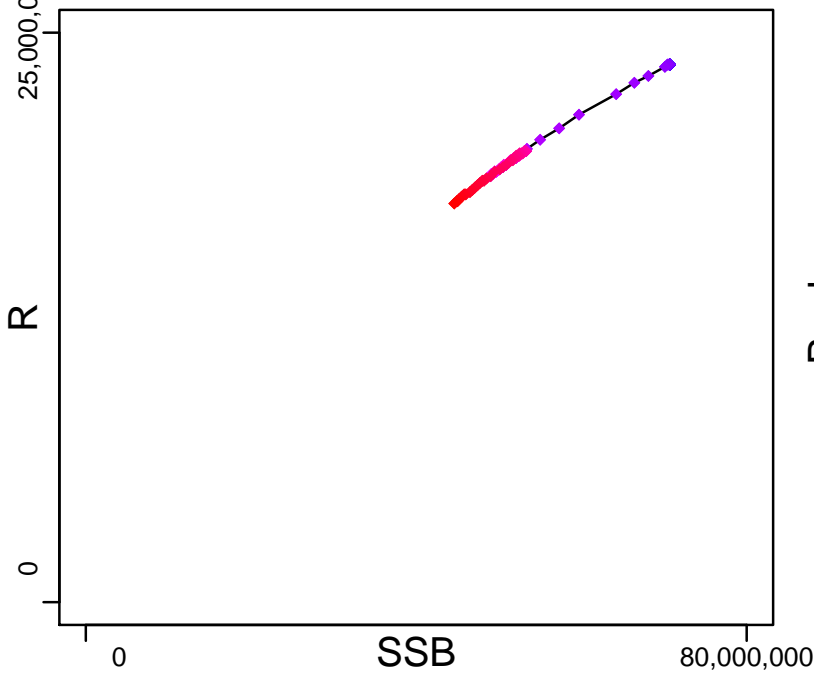
Kobe MSYpref (1916–2011–STACHURA)



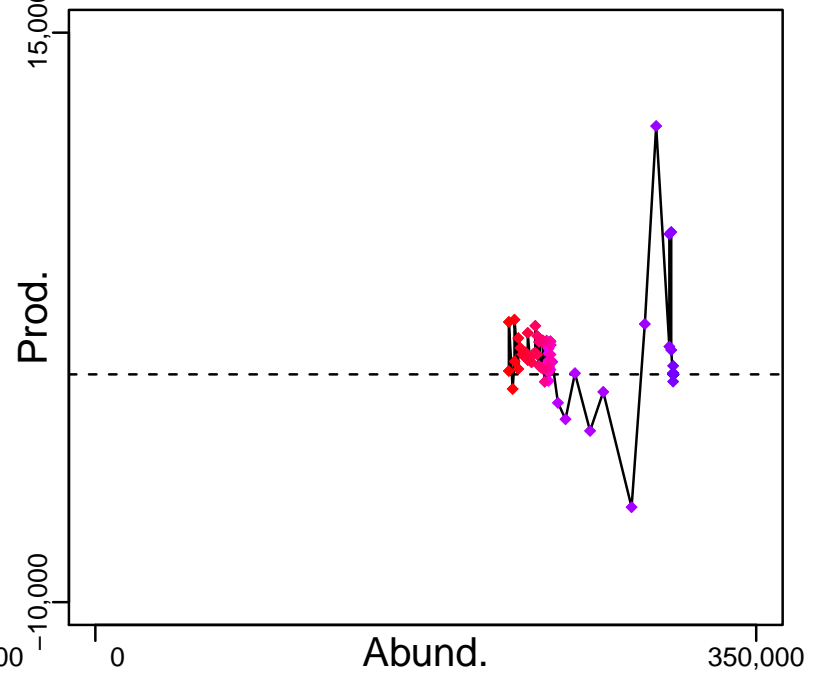
Kobe MGTpref (1916–2011–STACHURA)



Spawner Recruit (1916–2011–STACHURA)



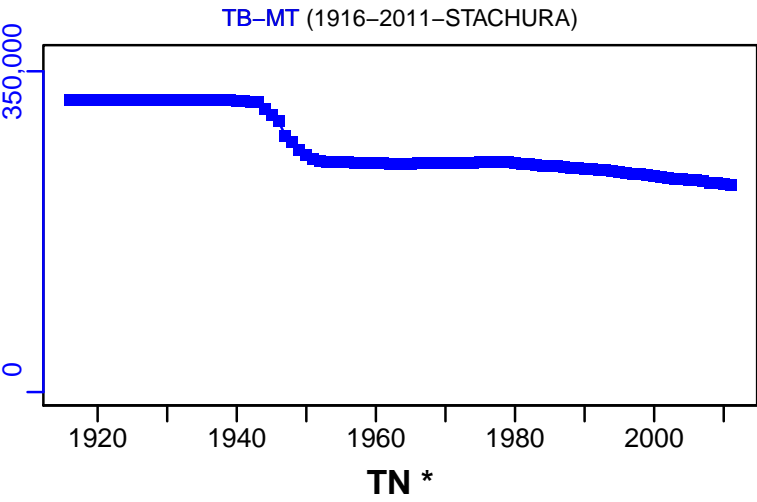
Production (1916–2011–STACHURA)



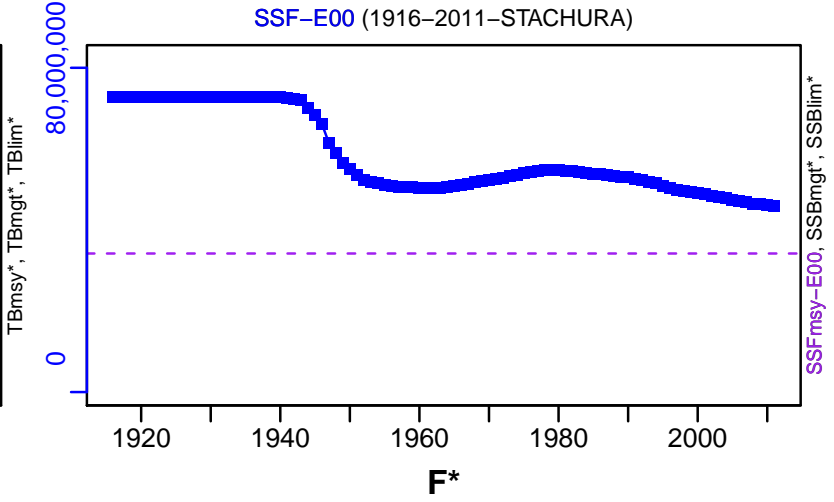
◆ Start Year ◆ End Year * No Data

Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

TB-MT (1916-2011-STACHURA)

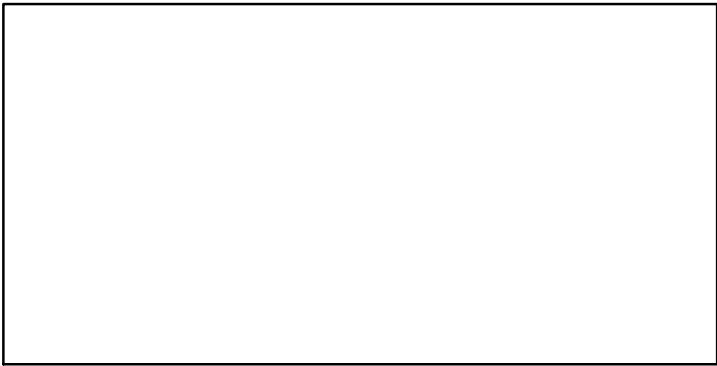


SSF-E00 (1916-2011-STACHURA)

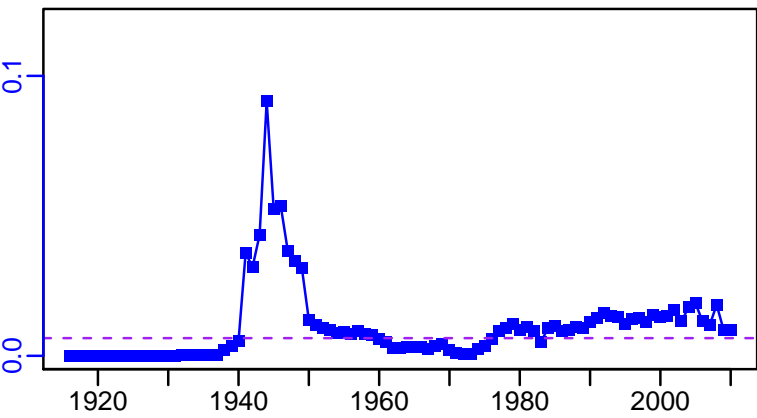


TN *

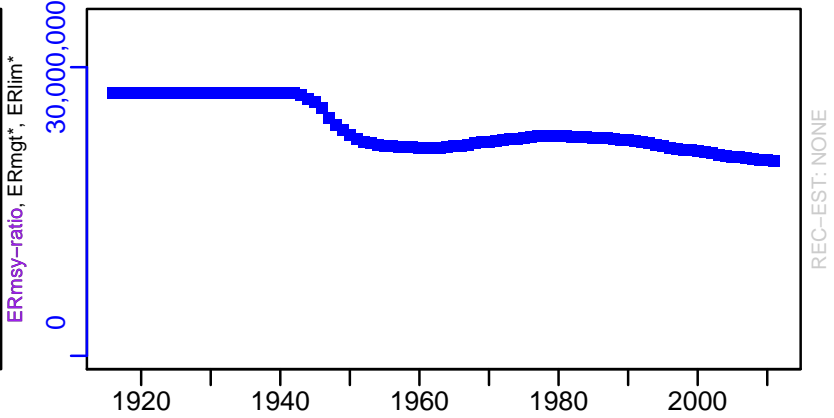
F*



ER-ratio (1916-2011-STACHURA)

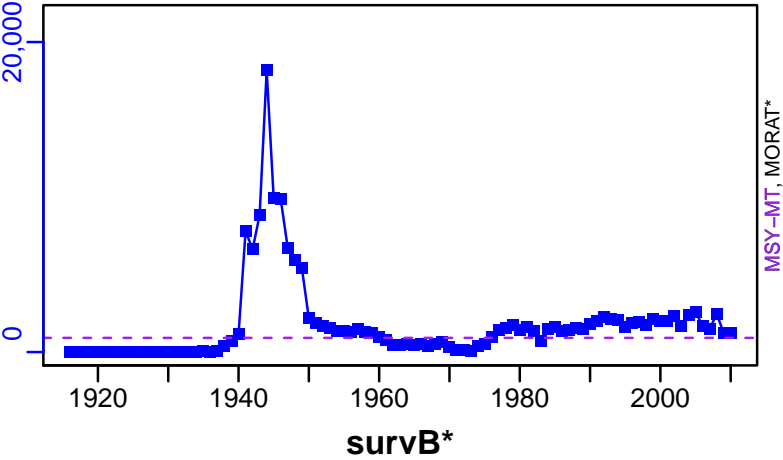


R-E00 (1916-2011-STACHURA)



Spotted spiny dogfish Pacific Coast [SPSDOGPCOAST]

TC-MT, TL*, RecC* (1916-2011-STACHURA)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Shortspine thornyhead Pacific Coast [SSTHORNHPCOAST]

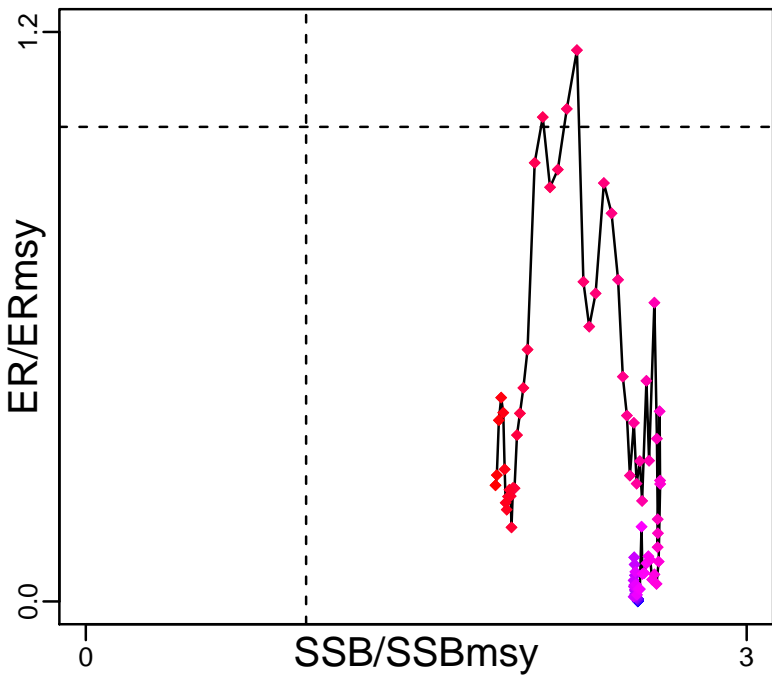
Metadata	
Scientific Name	Sebastes alascanus
Current Assess ID	NWFSC-SSTHORNHPCOAST-1901-2013-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2005, 2013

Reference Points			
Type	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	0.02
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	-	-	-

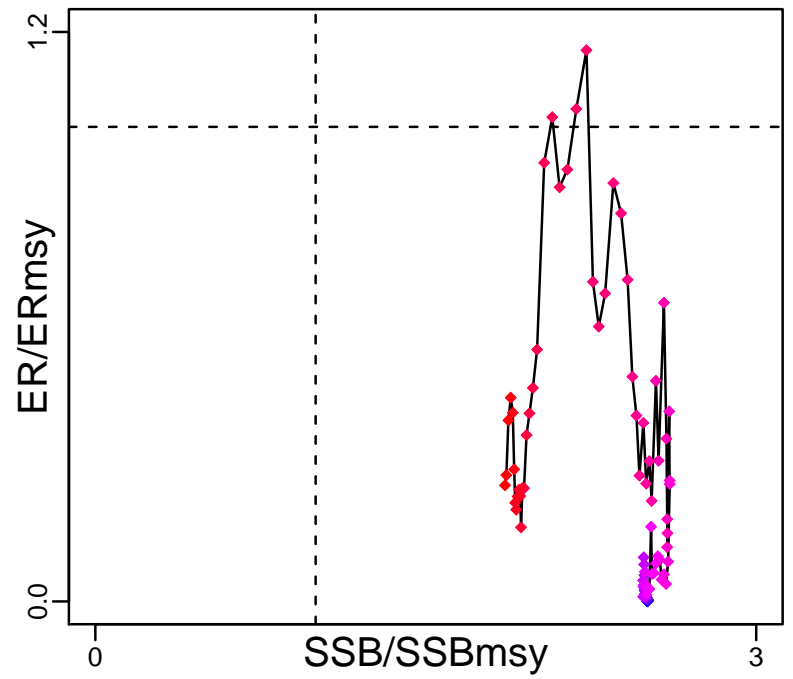
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	244,000	-	1+
SSB	SSB-MT	2013	141,000	Females	-
TN	-	-	-	-	-
R	R-E00	2013	28,800,000	-	0
F	F-1/yr	2013	0	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	911		
TL	TL-MT	2005	867		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.69		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.85		
F/Fmsy	F-1/yr/Fmsy-1/yr	2013	0.37		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.27		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortspine thornyhead Pacific Coast [SSTHORNHPCOAST]

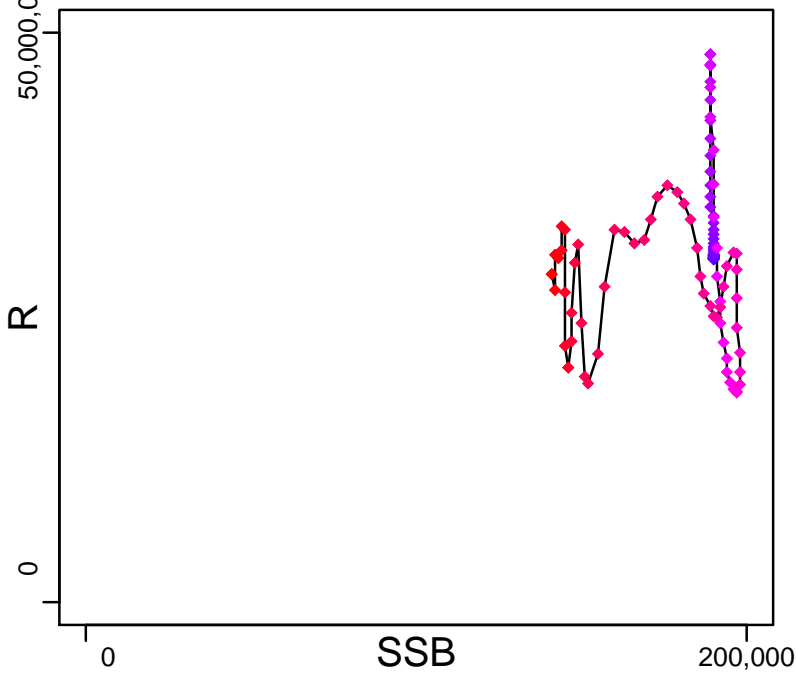
Kobe MSYpref (1901–2013–SISIMP2016)



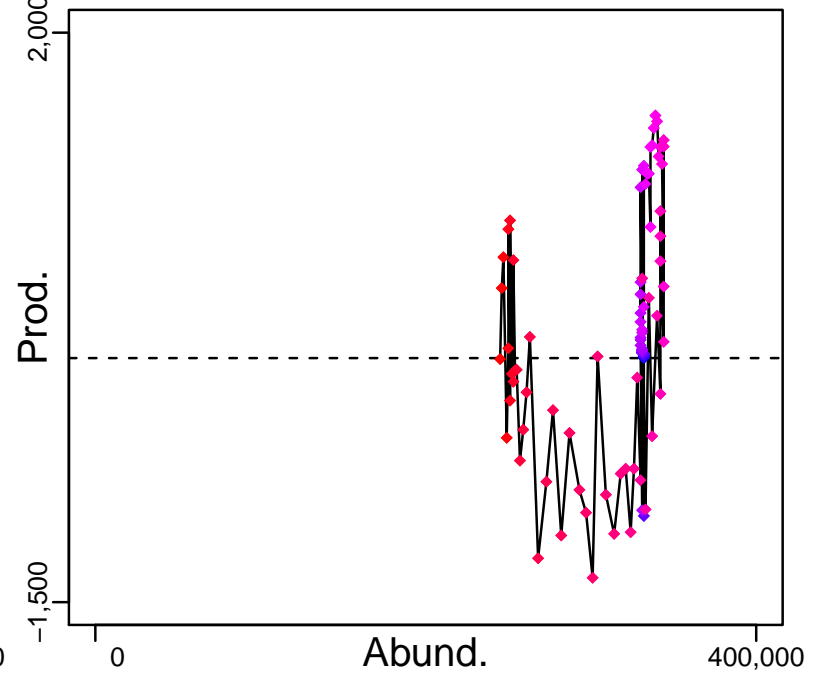
Kobe MGTpref (1901–2013–SISIMP2016)



Spawner Recruit (1901–2013–SISIMP2016)



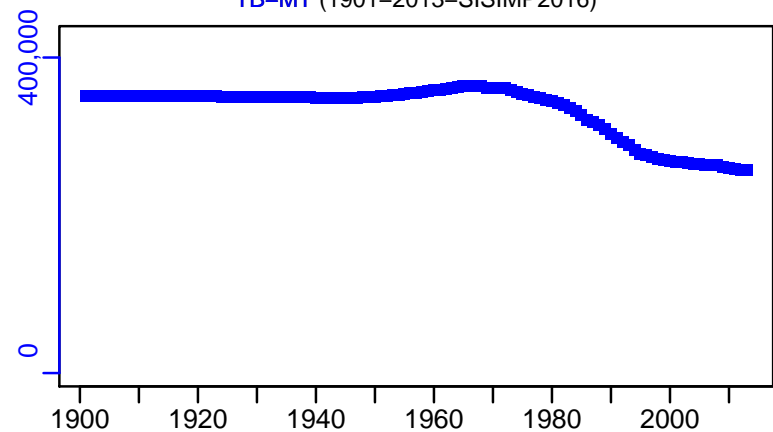
Production (1901–2013–SISIMP2016)



◆ Start Year ◆ End Year * No Data

Shortspine thornyhead Pacific Coast [SSTHORNHPCOAST]

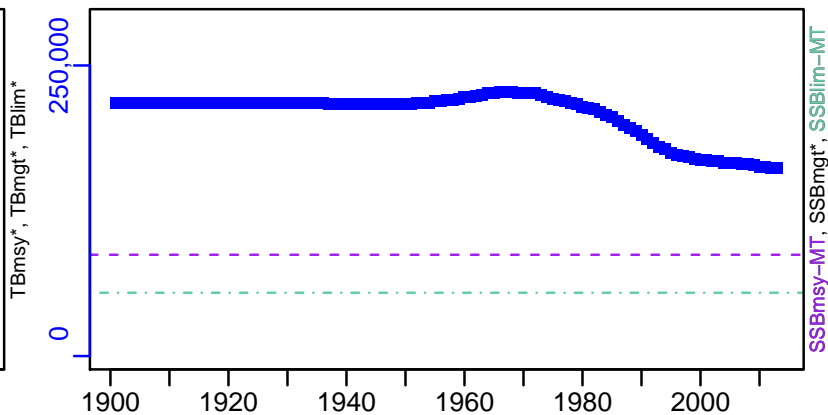
TB-MT (1901-2013-SISIMP2016)



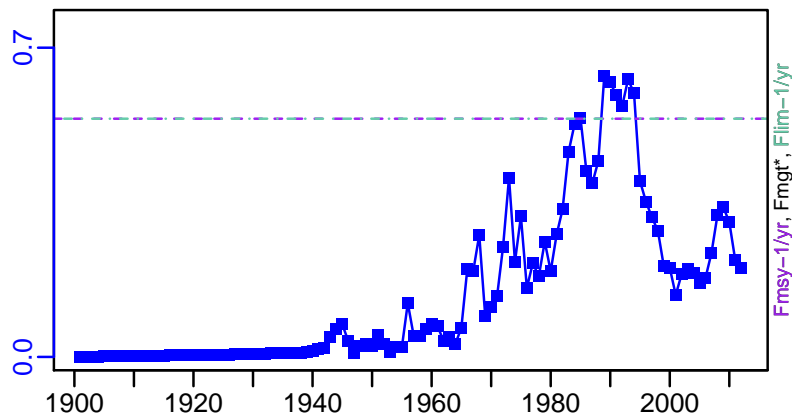
TN *



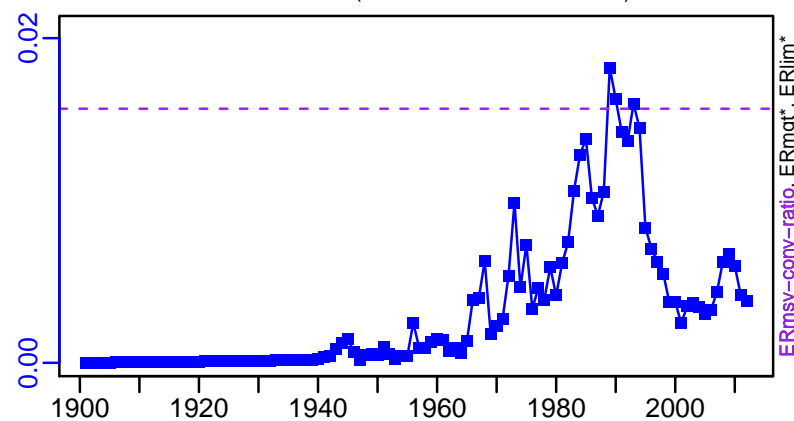
SSB-MT (1901-2013-SISIMP2016)



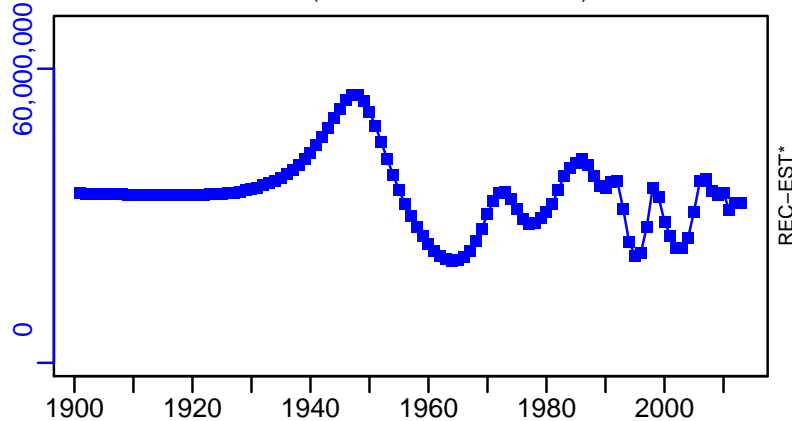
F-1/yr (1901-2013-SISIMP2016)



ER-calc-ratio (1901-2013-SISIMP2016)



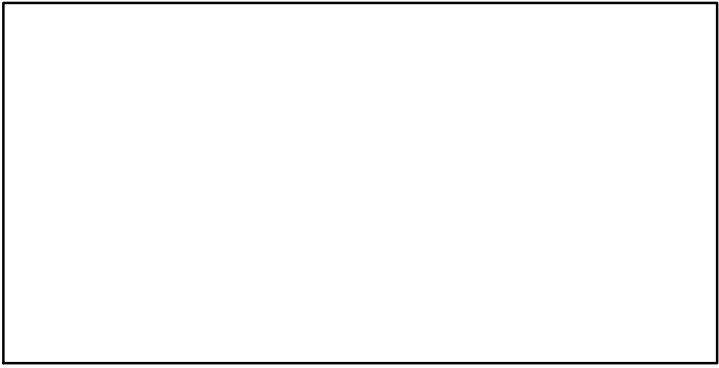
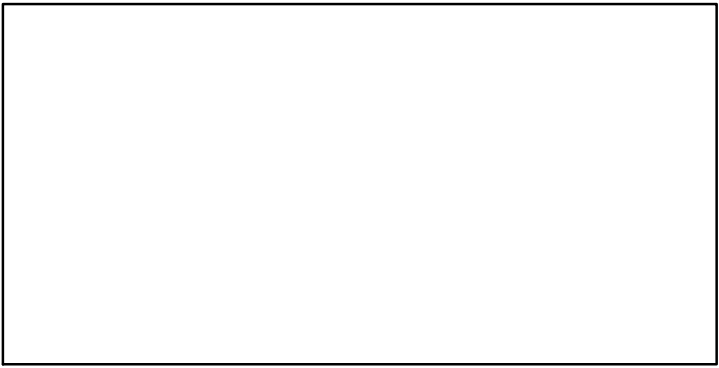
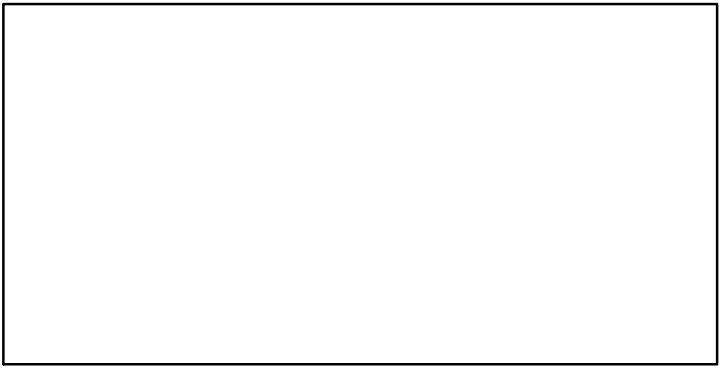
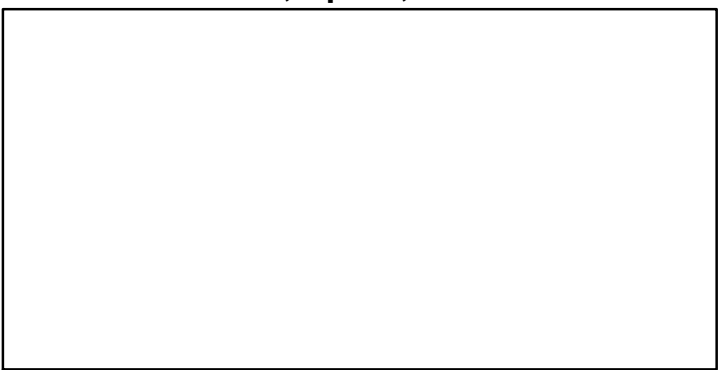
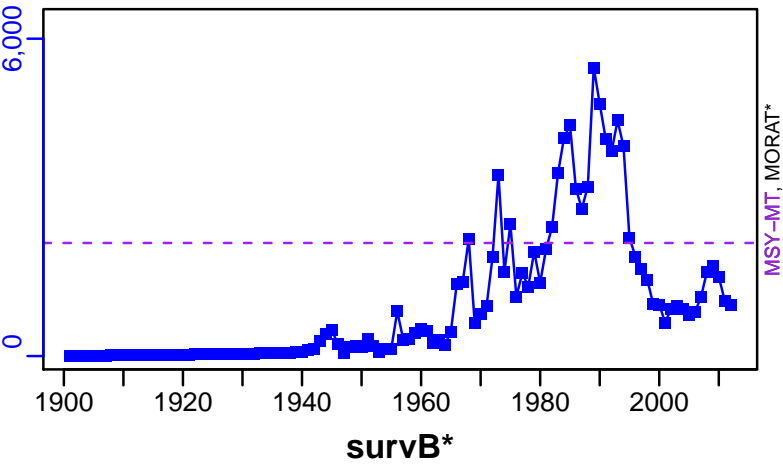
R-E00 (1901-2013-SISIMP2016)



Shortspine thornyhead Pacific Coast [SSTHORNHPCOAST]

TC-MT, TL*, RecC* (1901-2013-SISIMP2016)

TAC*, Cpair*, Cadv*



Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

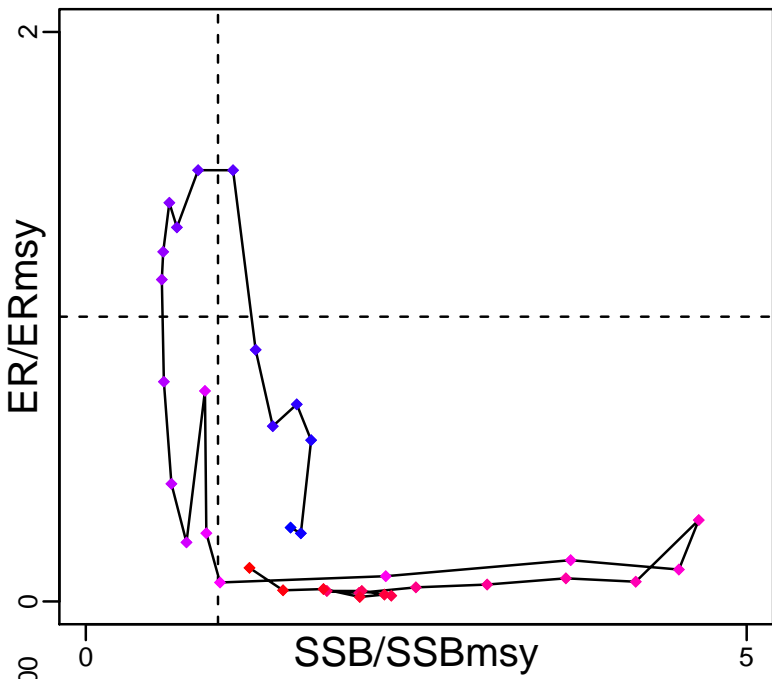
Metadata	
Scientific Name	Platichthys stellatus
Current Assess ID	SWFSC-STFLOUNNPCOAST-1970-2005-STANTON
Area	Northern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2005	1930
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2005	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	12,102
SSB0	SSB0-MT	2005	4824
MSY	MSY-MT	2005	818
M	M-1/yr	2005	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

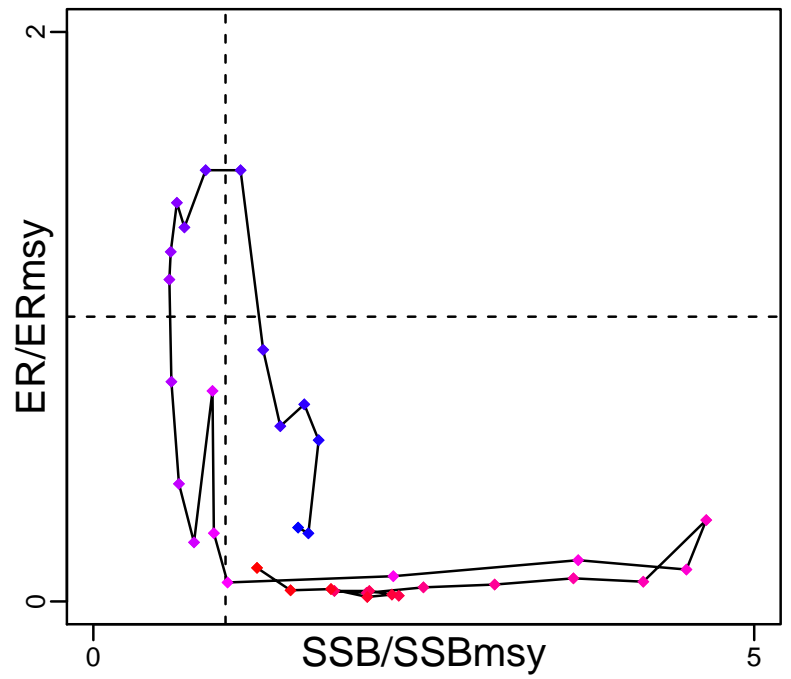
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2005	5440	-	2+
SSB	SSB-MT	2005	2120	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	1.6×10^9	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2005	0	-	-
TC	TC-MT	2005	104		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2005	1.1		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-pr-ratio	2005	0.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

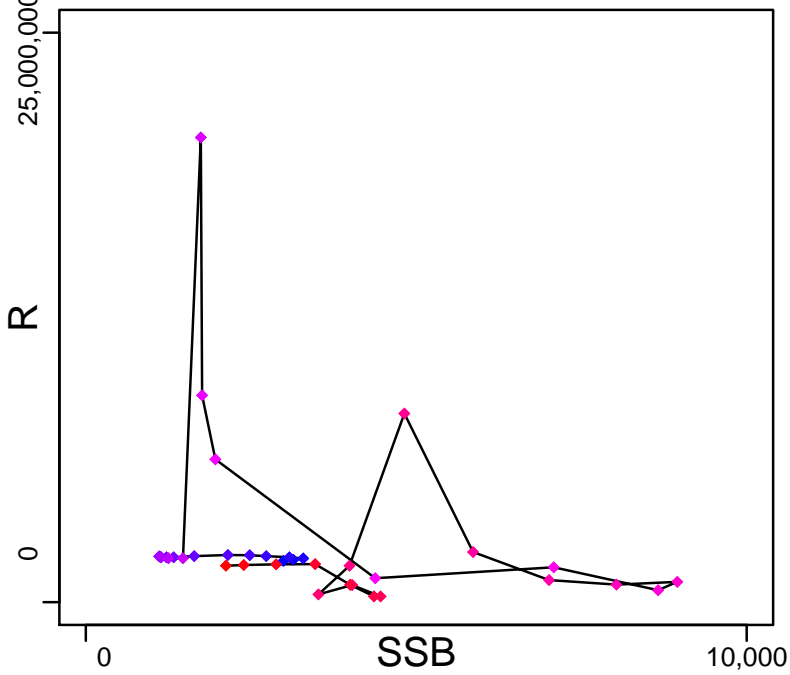
Kobe MSYpref (1970–2005–STANTON)



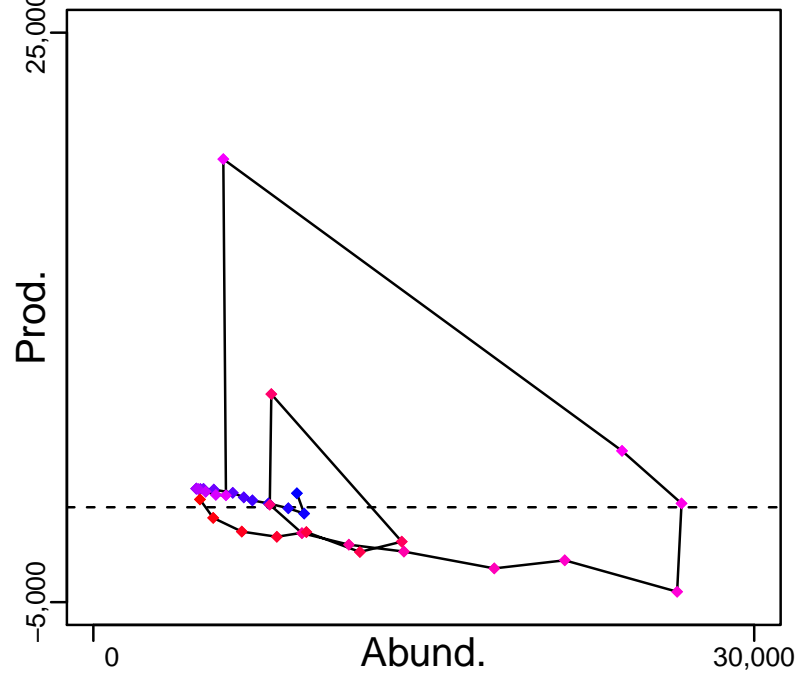
Kobe MGTpref (1970–2005–STANTON)



Spawner Recruit (1970–2005–STANTON)



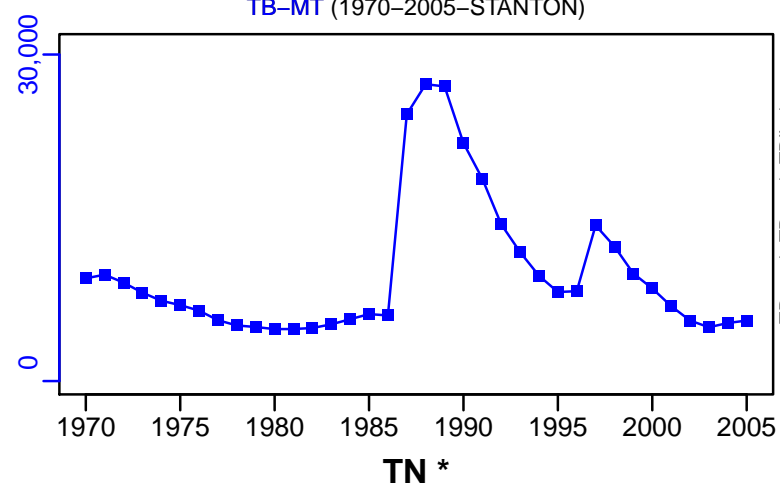
Production (1970–2005–STANTON)



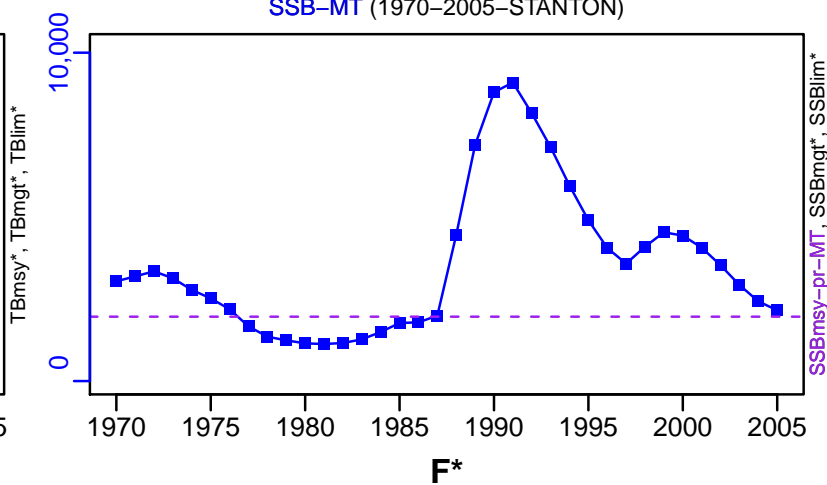
◆ Start Year ◆ End Year * No Data

Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

TB-MT (1970-2005-STANTON)



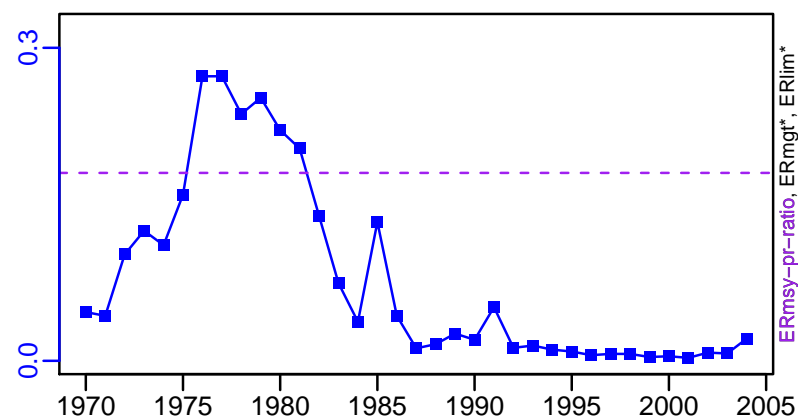
SSB-MT (1970-2005-STANTON)



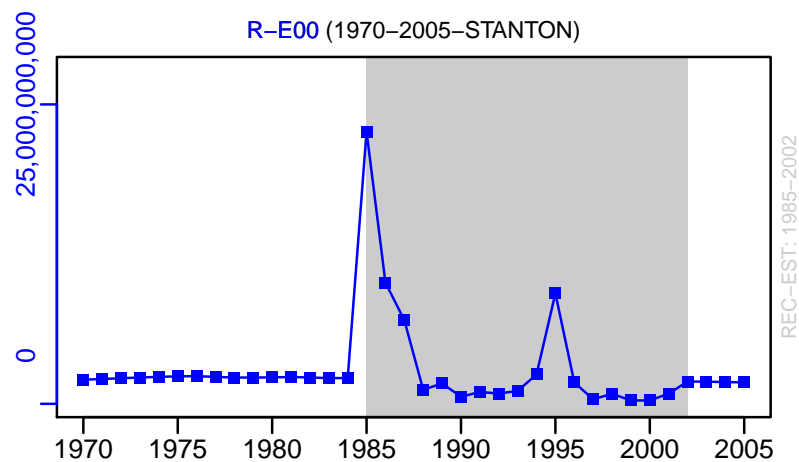
TN *

F*

ER-calc-ratio (1970-2005-STANTON)

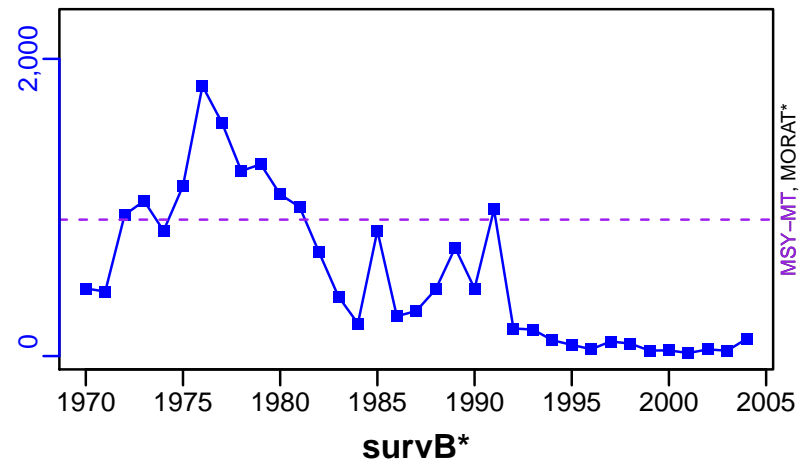


R-E00 (1970-2005-STANTON)



Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

TC-MT, TL*, RecC* (1970-2005-STANTON)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

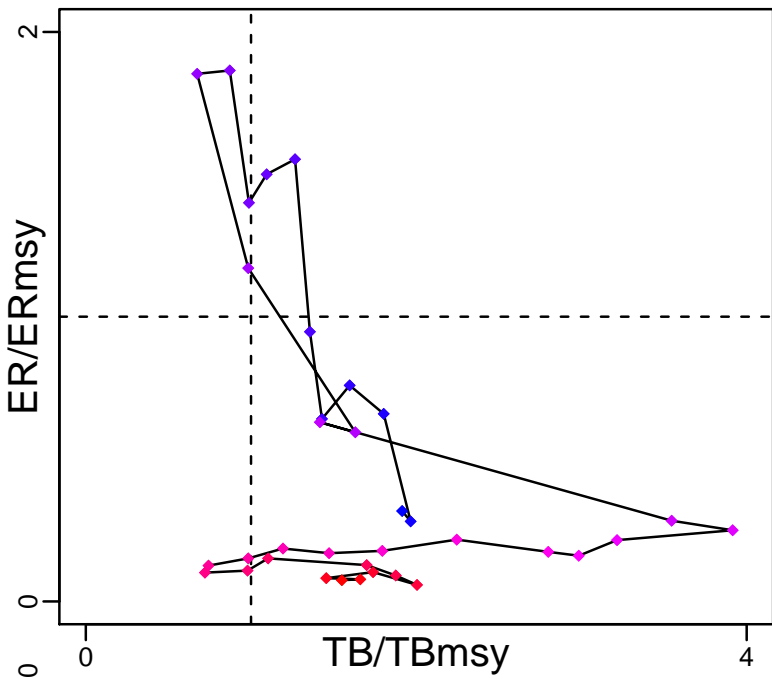
Metadata	
Scientific Name	Platichthys stellatus
Current Assess ID	SWFSC-STFLOUNSPCOAST-1970-2005-STANTON
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

Reference Points			
Type	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	-	-	-

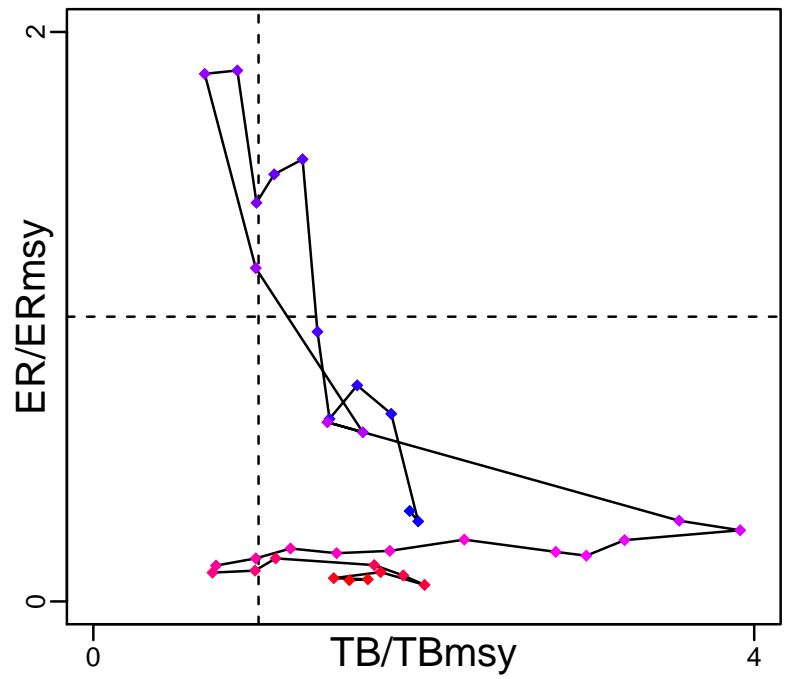
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2005	3460	-	2+
SSB	SSB-MT	2005	1450	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	8.07×10^8	-	0
F	-	-	-	-	-
ER	ER-ratio	2005	0	-	-
TC	TC-MT	2005	46		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.49		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2005	0.07		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

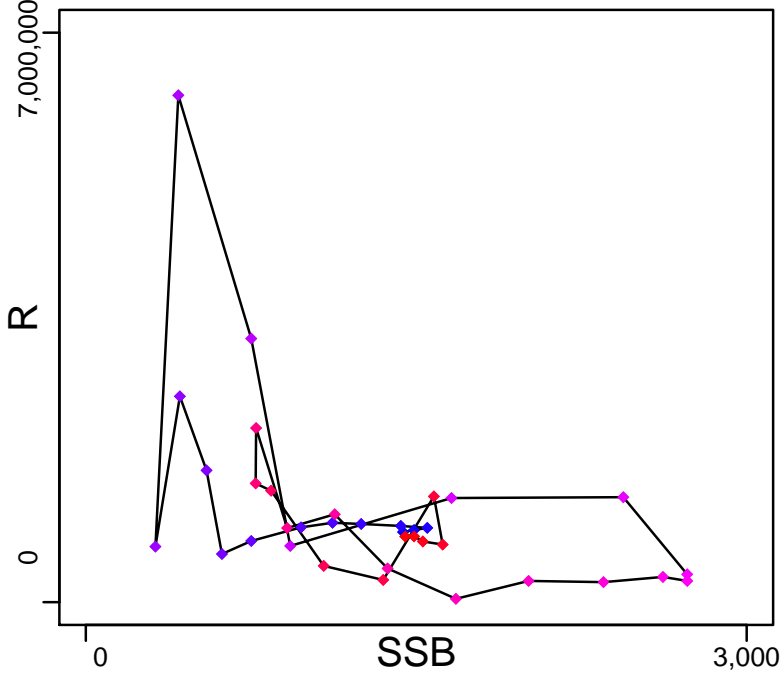
Kobe MSYpref (1970–2005–STANTON)



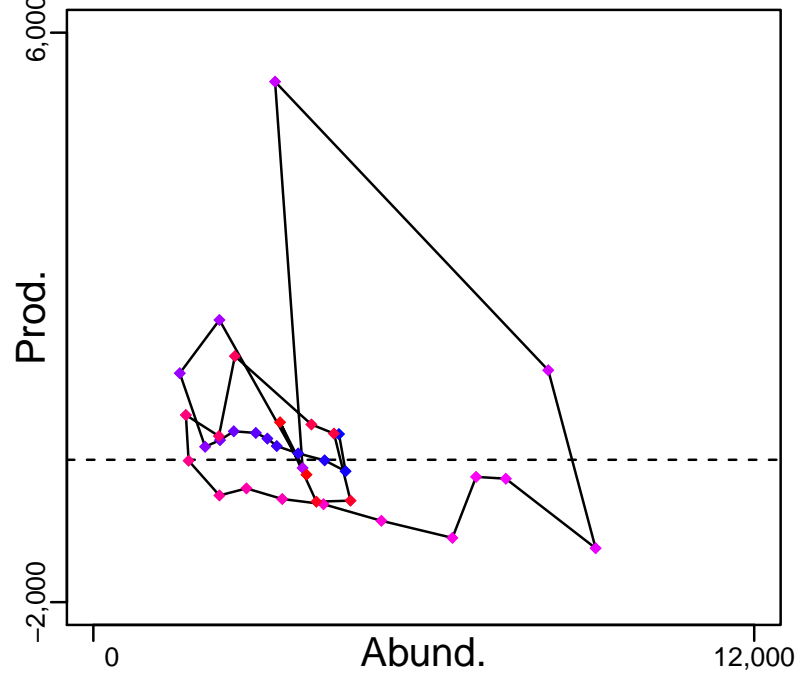
Kobe MGTpref (1970–2005–STANTON)



Spawner Recruit (1970–2005–STANTON)



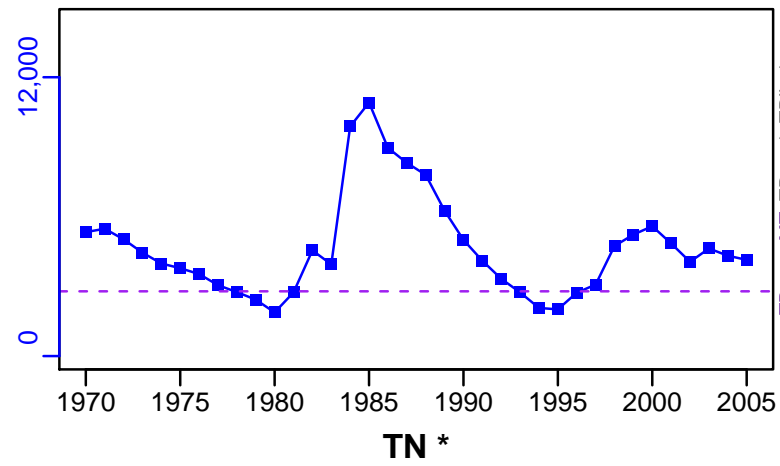
Production (1970–2005–STANTON)



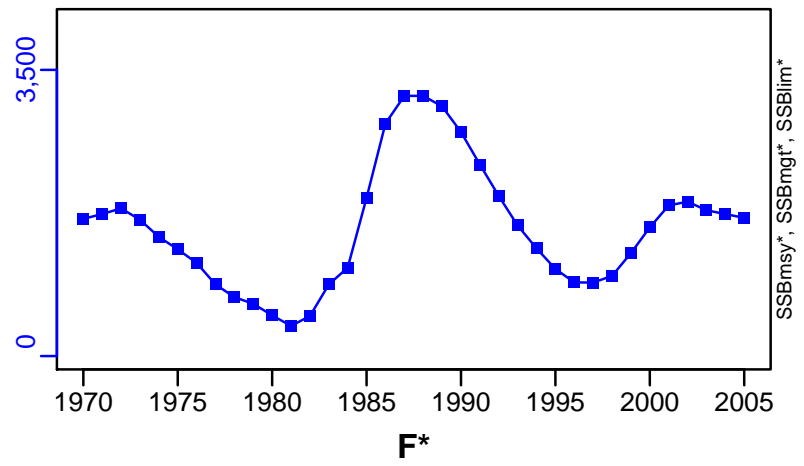
◆ Start Year ◆ End Year * No Data

Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

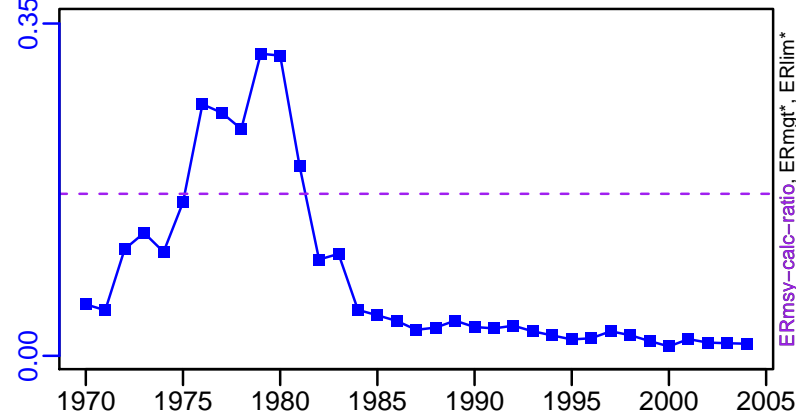
TB-MT (1970-2005-STANTON)



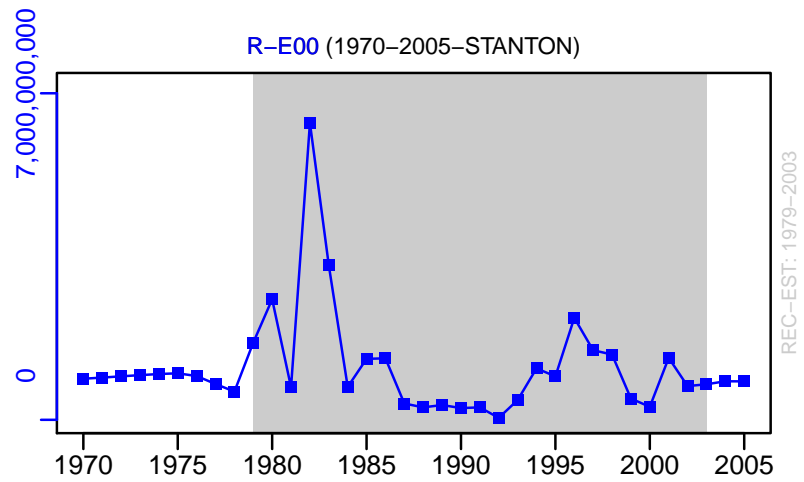
SSB-MT (1970-2005-STANTON)



ER-ratio (1970-2005-STANTON)



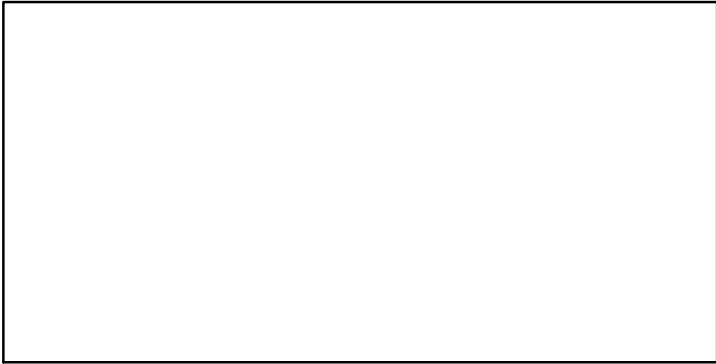
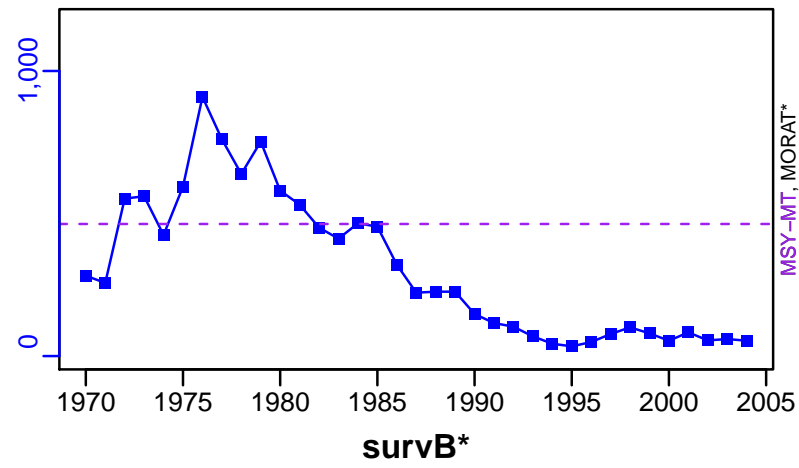
R-E00 (1970-2005-STANTON)



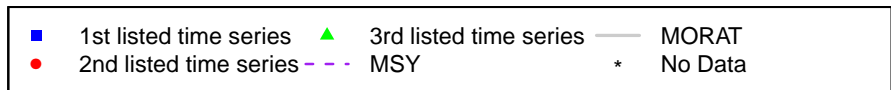
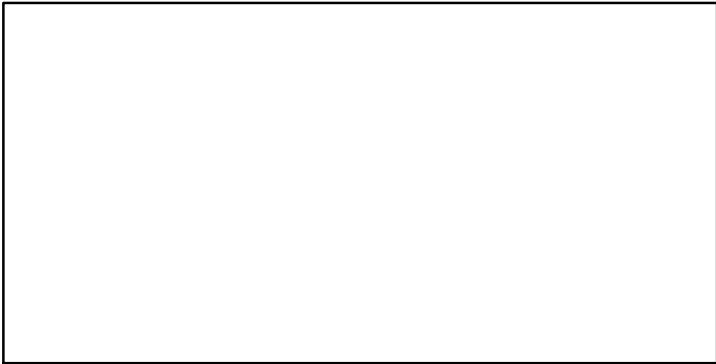
Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

TC-MT, TL*, RecC* (1970-2005-STANTON)

TAC*, Cpair*, Cadv*



EFFORT*



Widow rockfish Pacific Coast [WROCKPCOAST]

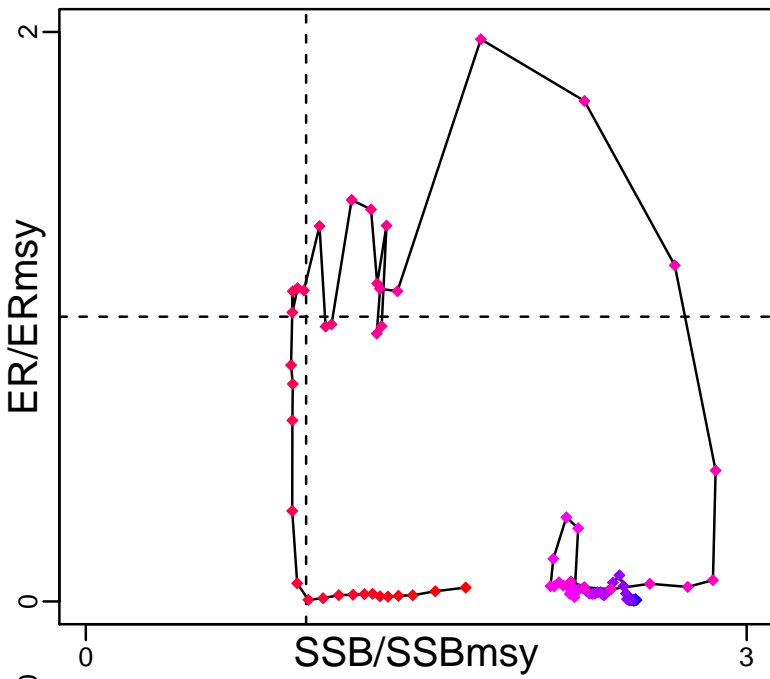
Metadata	
Scientific Name	Sebastes entomelas
Current Assess ID	NWFSC-WROCKPCOAST-1916-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
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	-	-	-

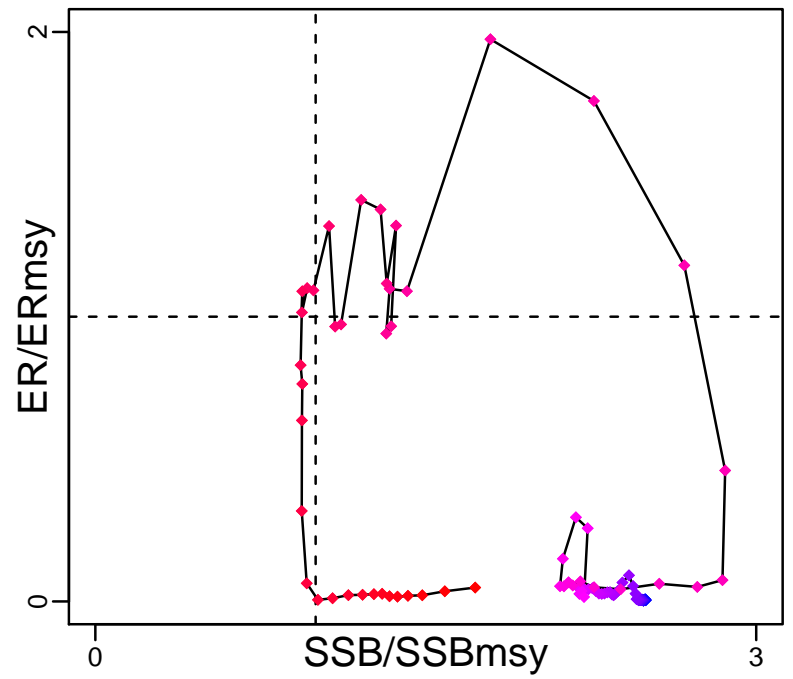
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	132,000	Both	4+
SSB	SSB-MT	2015	60,600	Females	-
TN	-	-	-	-	-
R	R-E00	2015	53,400,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	726		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.88		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.11		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.02		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	1.28		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Widow rockfish Pacific Coast [WROCKPCOAST]

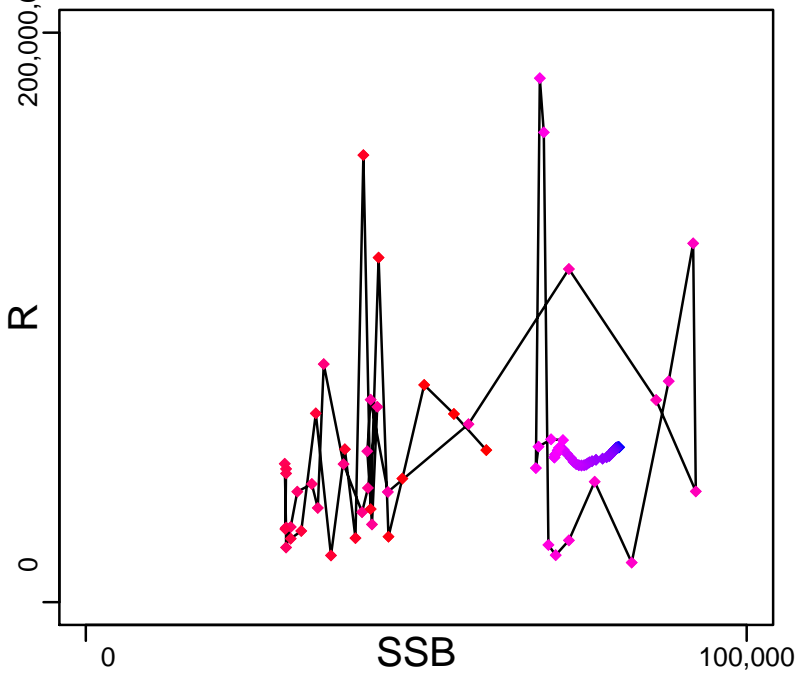
Kobe MSYpref (1916–2015–SISIMP2016)



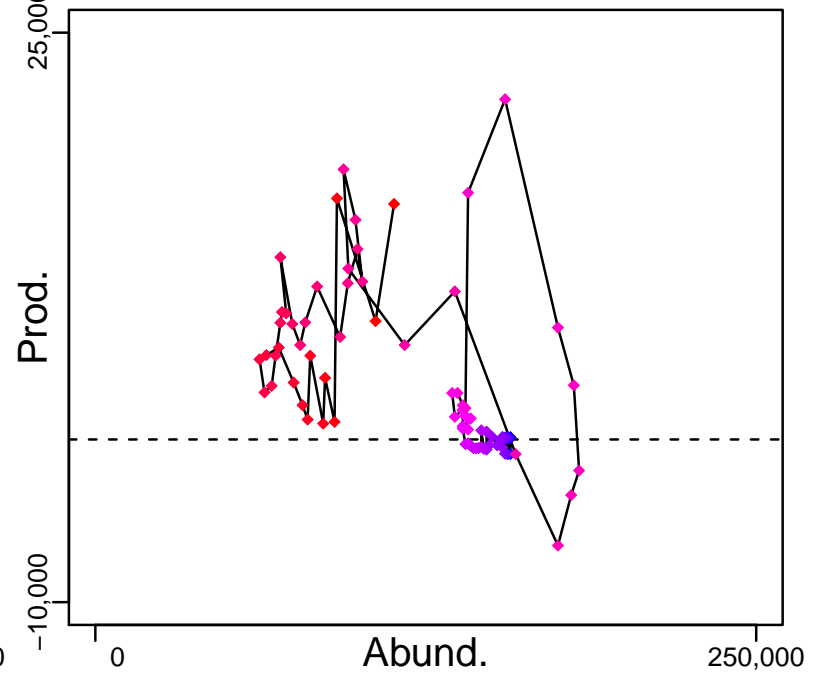
Kobe MGTpref (1916–2015–SISIMP2016)



Spawner Recruit (1916–2015–SISIMP2016)



Production (1916–2015–SISIMP2016)

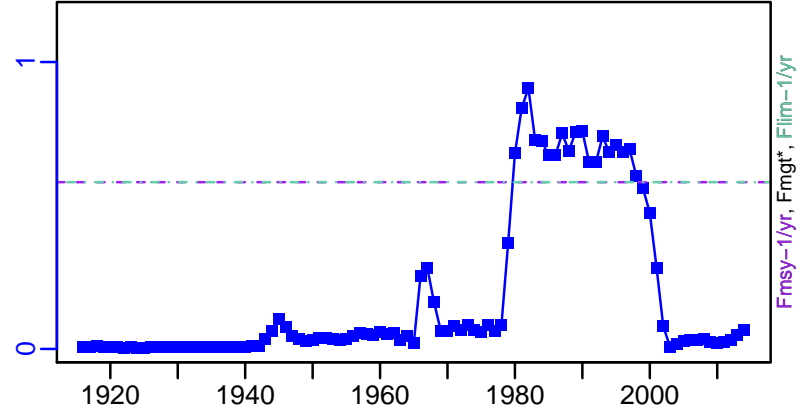
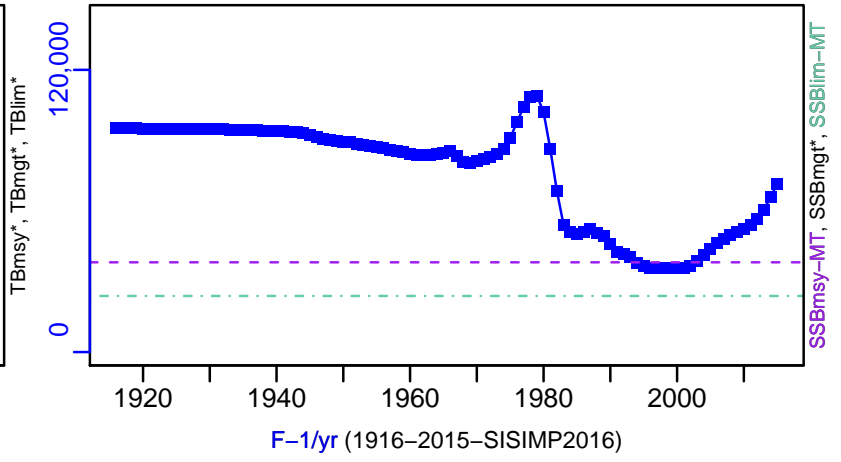
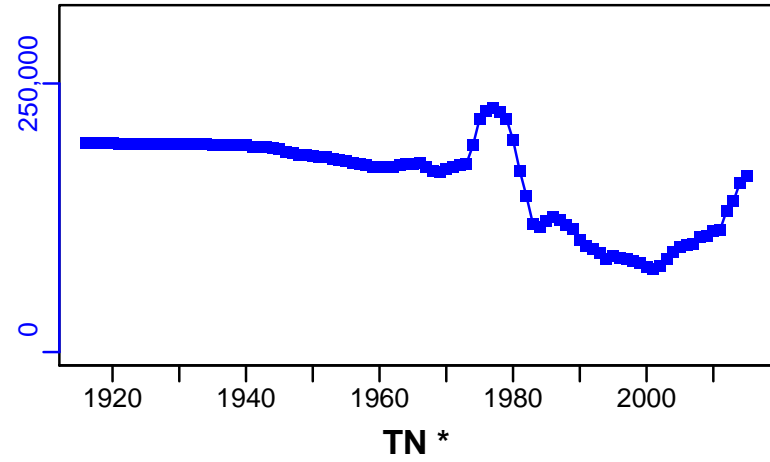


◆ Start Year ◆ End Year * No Data

Widow rockfish Pacific Coast [WROCKPCOAST]

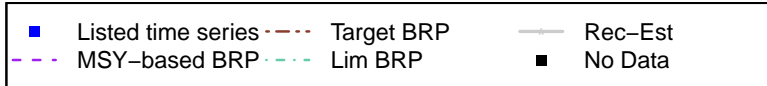
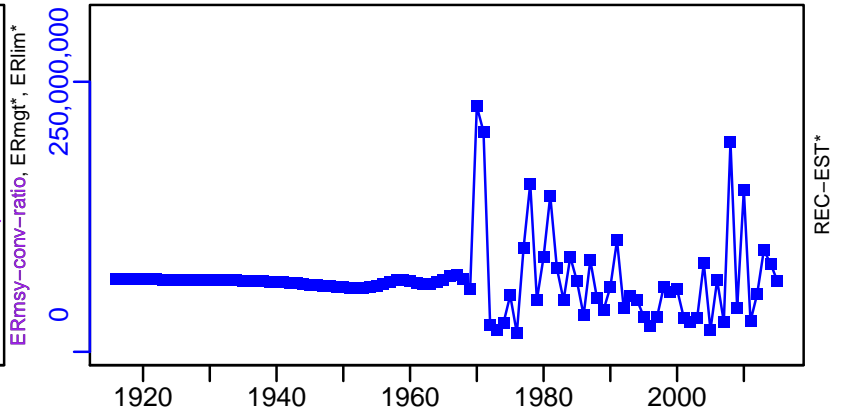
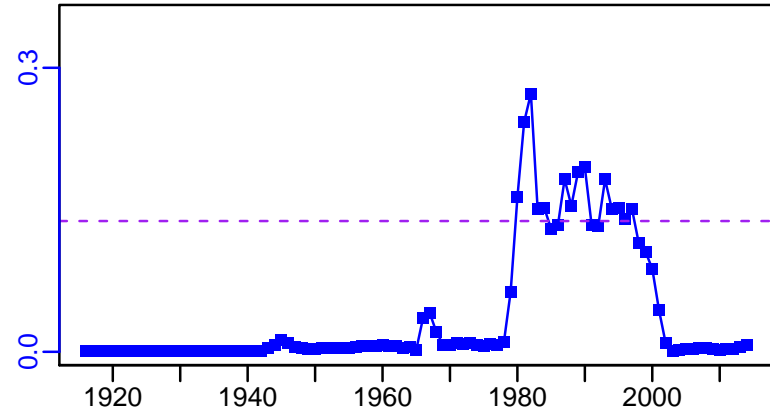
TB-MT (1916-2015-SISIMP2016)

SSB-MT (1916-2015-SISIMP2016)



ER-calc-ratio (1916-2015-SISIMP2016)

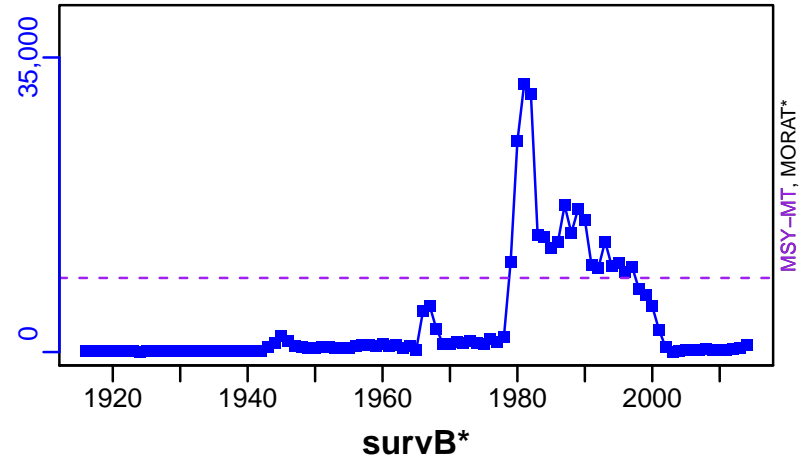
R-E00 (1916-2015-SISIMP2016)



Widow rockfish Pacific Coast [WROCKPCOAST]

TC-MT, TL*, RecC* (1916-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]

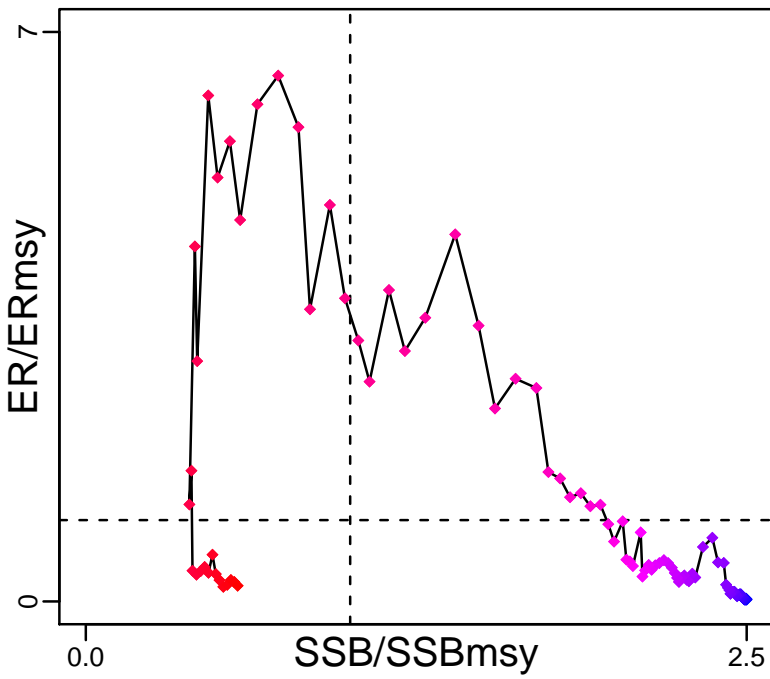
Metadata	
Scientific Name	Sebastes ruberrimus
Current Assess ID	NWFSC-YEYEROCKPCOAST-1916-2015-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	4112
SSBmsy	SSBmsy-E00eggs	2015	411,100,000
Fmsy	Fmsy-1/yr	2015	0.5
ERmsy	ERmsy-ratio	2011	0.02
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	8882
SSB0	SSB0-E00eggs	2011	1.03×10^9
MSY	MSY-MT	2011	63
M	M-1/yr	2011	0.05
TBlim	-	-	-
SSBlim	SSBlim-E00eggs	2015	256,900,000
Flim	Flim-1/yr	2015	0.5
ERlim	-	-	-

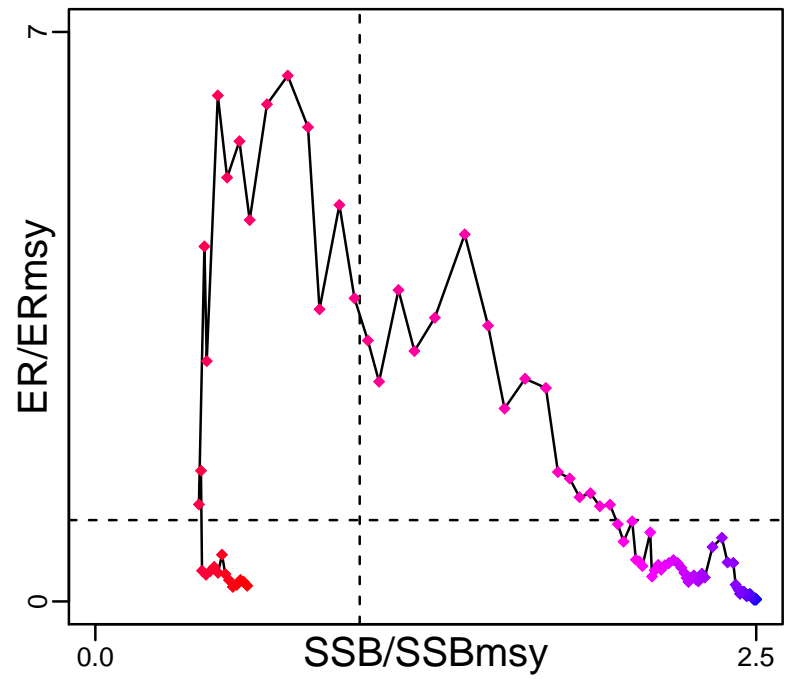
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2350	-	8+
SSB	SSB-E00eggs	2015	2.41×10^8	Females	-
TN	-	-	-	-	-
R	R-E00	2015	112,000	-	0
F	F-1/yr	2015	0	-	-
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	8.8		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.57		
SSB/SSBmsy	SSB-E00eggs/SSBmsy-E00eggs	2015	0.59		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.26		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2011	0.31		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]

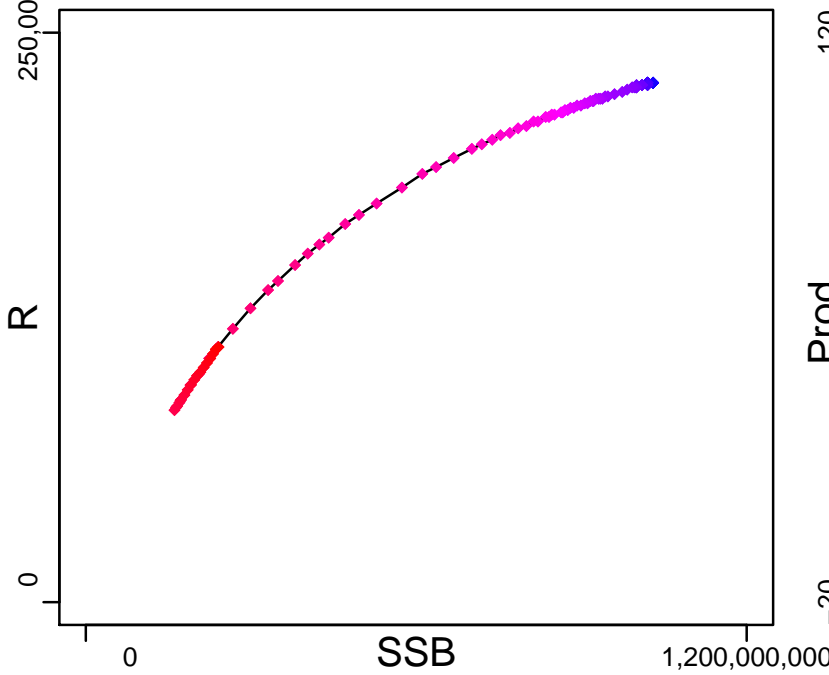
Kobe MSYpref (1916–2015–SISIMP2016)



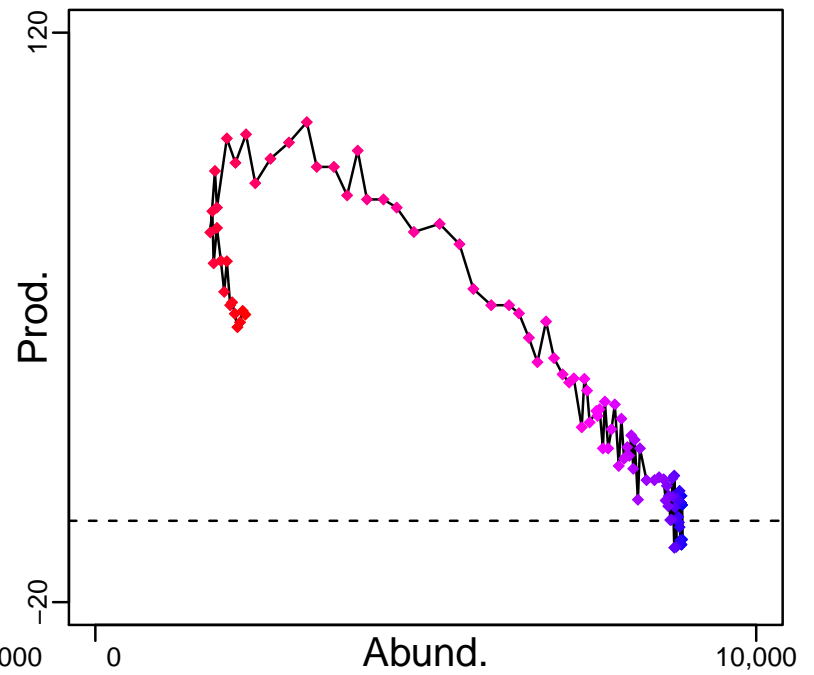
Kobe MGTpref (1916–2015–SISIMP2016)



Spawner Recruit (1916–2015–SISIMP2016)

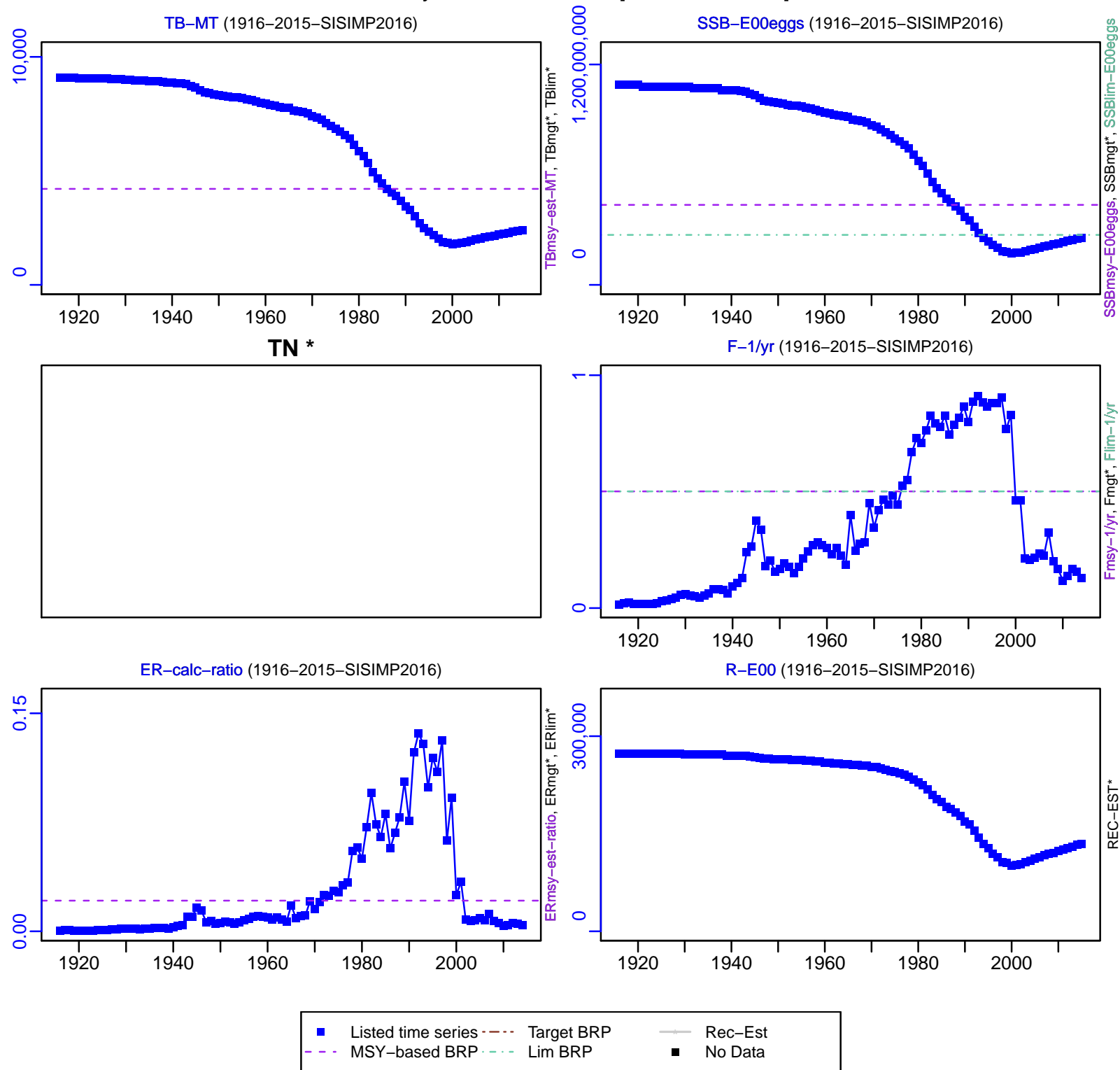


Production (1916–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

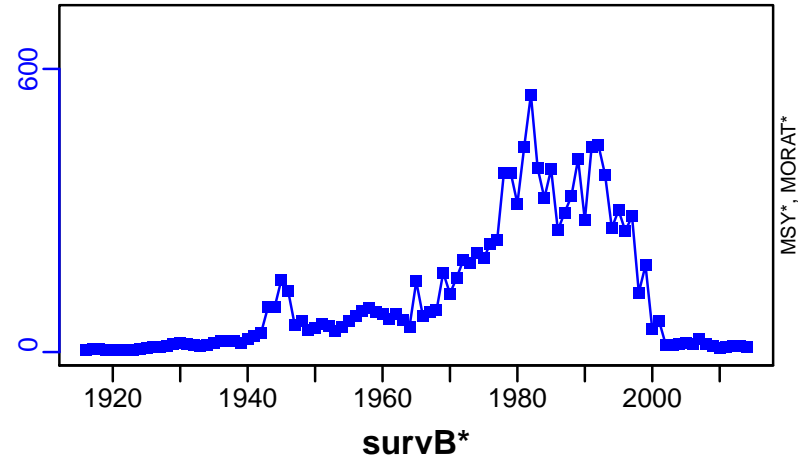
Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]



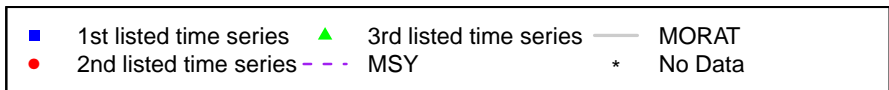
Yelloweye rockfish Pacific Coast [YEYEROCKPCOAST]

TC-MT, TL*, RecC* (1916-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

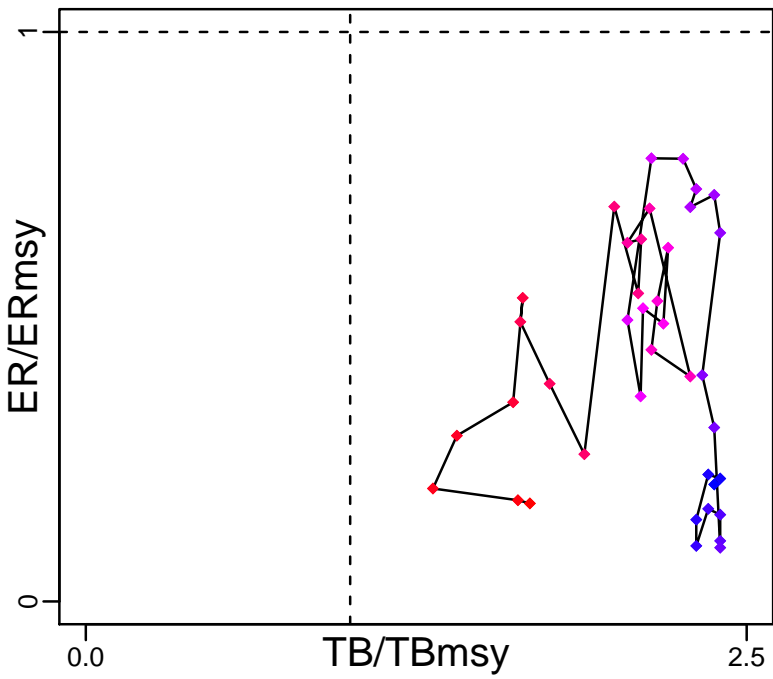
Metadata	
Scientific Name	Sebastes flavidus
Current Assess ID	NWFSC-YTROCKNPCOAST-1892-2012-SISIMP2016
Area	Northern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2012, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.5
ERmsy	ERmsy-ratio	2005	0.13
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	120,024
SSB0	SSB0-MT	2005	31,016
MSY	MSY-MT	2012	4805
M	M-1/yr	2005	0.11
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2012	0.5
ERlim	-	-	-

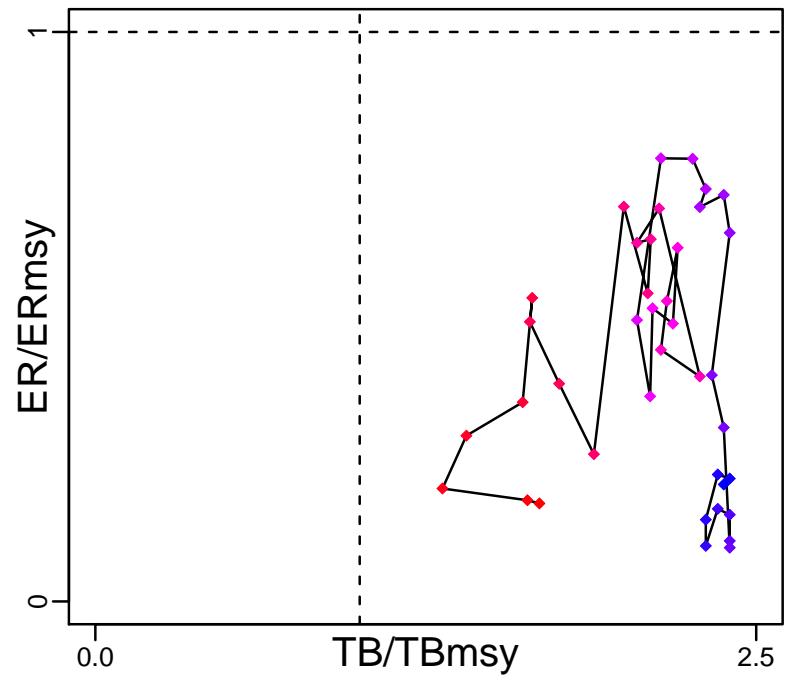
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	143,000	-	-
SSB	SSB-MT	2005	16,900	-	4+
TN	-	-	-	-	-
R	R-E00	2005	12,100,000	-	4
F	F-1/yr	2012	0	-	-
ER	ER-ratio	2005	0	-	-
TC	TC-MT	2005	1610		
TL	-	-	-		
TB/TBmsy	TB-MT/TB0-MT	2005	1.68		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.36		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	0.17		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

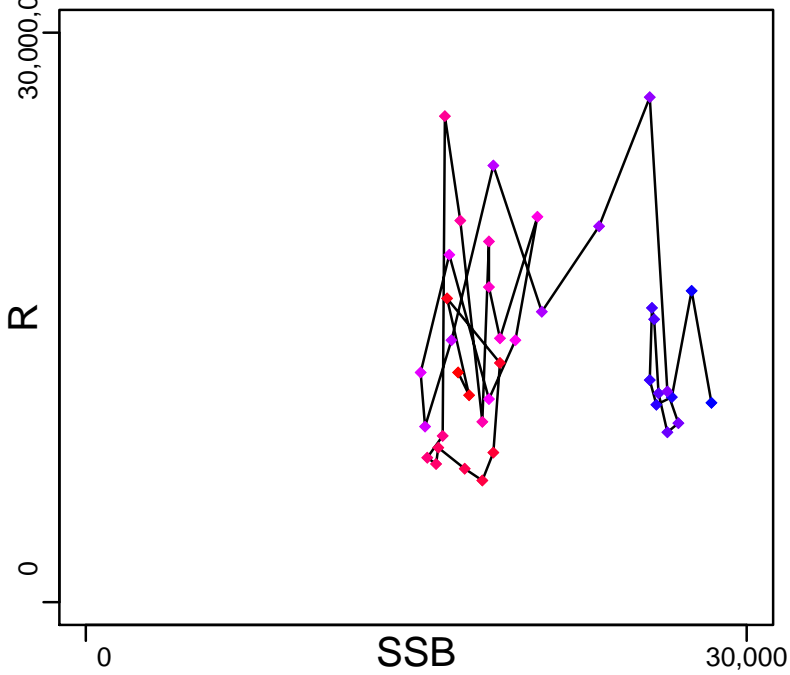
Kobe MSYpref (1967–2005–STANTON)



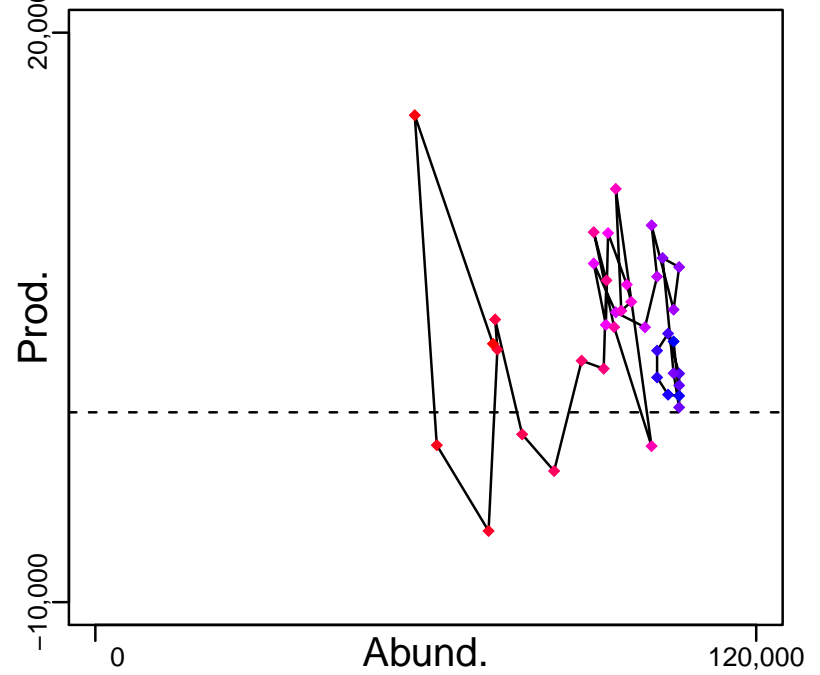
Kobe MGTpref (1967–2005–STANTON)



Spawner Recruit (1967–2005–STANTON)



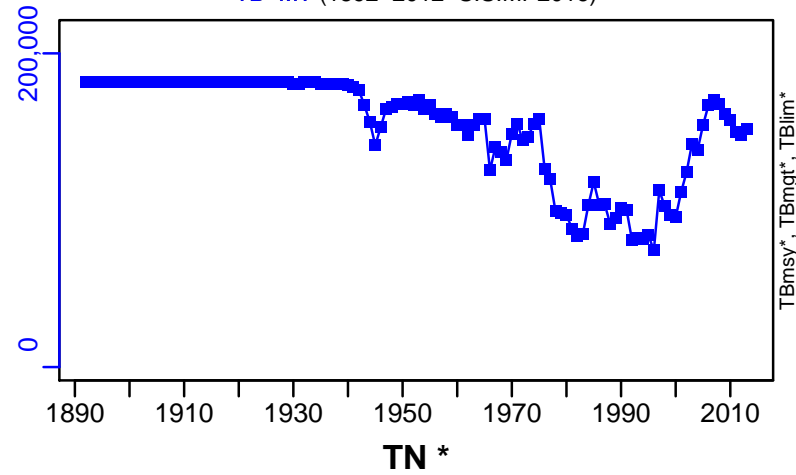
Production (1967–2005–STANTON)



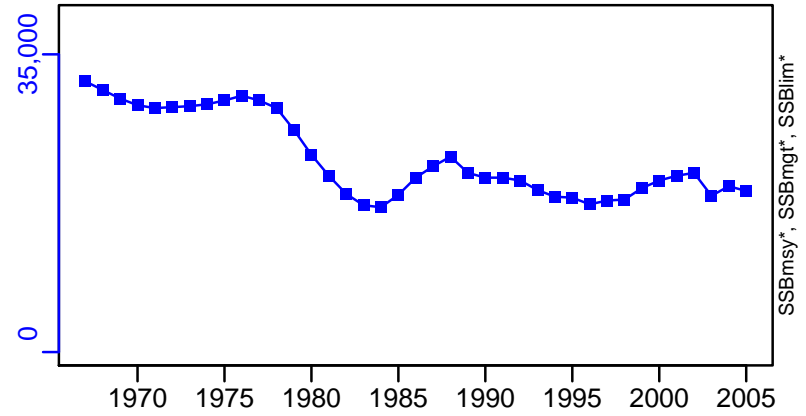
◆ Start Year ◆ End Year * No Data

Yellowtail rockfish Northern Pacific Coast [YTROCKNPNCOAST]

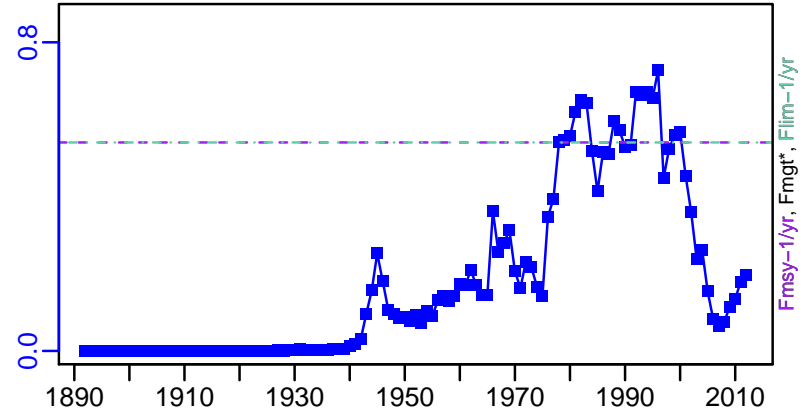
TB-MT (1892–2012–SISIMP2016)



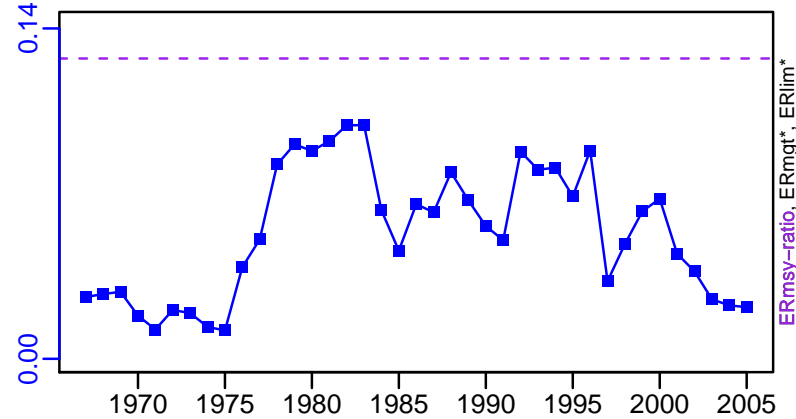
SSB-MT (1967–2005–STANTON)



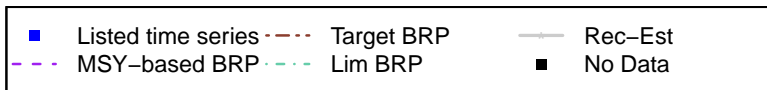
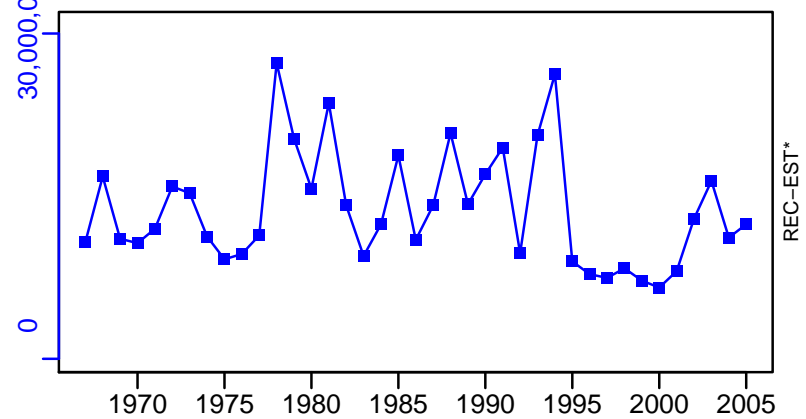
F-1/yr (1892–2012–SISIMP2016)



ER-ratio (1967–2005–STANTON)



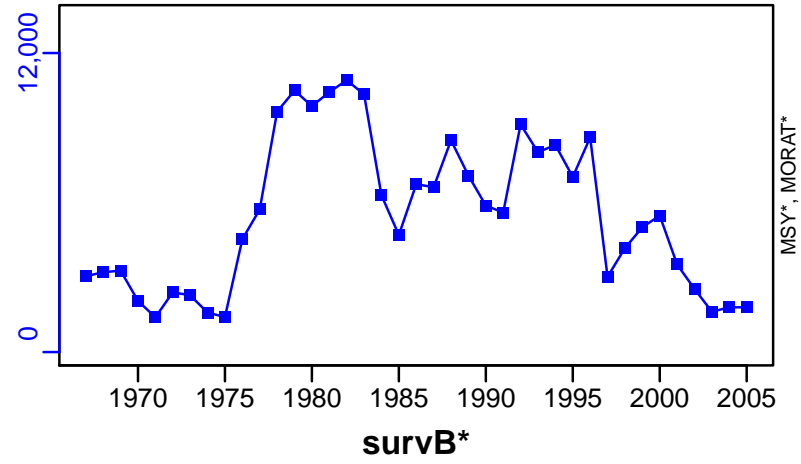
R-E00 (1967–2005–STANTON)



Yellowtail rockfish Northern Pacific Coast [YTROCKNPCOAST]

TC-MT, TL*, RecC* (1967-2005-STANTON)

TAC*, Cpair*, Cadv*



EFFORT*

