

US Alaska Stocks

v4.495 (Apr-17-2021)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. ALPLAICBSAI [Alaska plaice Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
2. ALSKABSAI [Alaska skate Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
3. ARFLOUNDBSAI [Arrowtooth flounder Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
4. ARFLOUNDGA [Arrowtooth flounder Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
5. ATKABSAI [Atka mackerel Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
6. ATKAGA [Atka mackerel Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
7. BKINGCRABPI [Blue king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
8. BKINGCRABSMI [Blue king crab Saint Matthews Island]	TB SSB	ER F	TB SSB	ER F
9. DSOLEGA [Dover sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
10. DUSROCKGA [Dusky rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
11. FLSOLEBSAI [Flathead sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
12. FLSOLEGA [Flathead sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
13. GHALBSAI [Greenland halibut Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
14. GKCRABAIES [Golden king crab Aleutian Islands Eastern segment]	TB SSB	ER F	TB SSB	ER F
15. GKCRABAIWS [Golden king crab Aleutian Islands Western segment]	TB SSB	ER F	TB SSB	ER F
16. GKCRABPI [Golden king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
17. GPOCTOBSAI [Giant Pacific octopus Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
18. GPOCTOGA [Giant Pacific octopus Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
19. HERRPWS [Pacific herring Prince William Sound]	TB SSB	ER F	TB SSB	ER F
20. HERRSITKA [Pacific herring Sitka]	TB SSB	ER F	TB SSB	ER F
21. HERRTOG [Pacific herring Togiak District]	TB SSB	ER F	TB SSB	ER F
22. KMFLOUNBSAI [Kamchatka flounder Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
23. NROCKBSAI [Northern rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
24. NROCKGA [Northern rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
25. NRSOLEEBSAI [Northern rock sole Eastern Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
26. NRSOLEGA [Northern rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
27. PCODAI [Pacific cod Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
28. PCODBS [Pacific cod Bering Sea]	TB SSB	ER F	TB SSB	ER F
29. PCODGA [Pacific cod Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
30. PERCHEBSAI [Pacific ocean perch Eastern Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
31. PHALNPAC [Pacific halibut North Pacific]	TB SSB	ER F	TB SSB	ER F
32. POPERCHGA [Pacific ocean perch Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
33. REXSOLEGA [Rex sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
34. REYEROCKBSAI [Rougheye rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F

35. REYEROCKGA [Rougheye rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
36. RKCRAIBAIWS [Red king crab Aleutian Islands Western segment]	TB SSB	ER F	TB SSB	ER F
37. RKCRAIBBB [Red king crab Bristol Bay]	TB SSB	ER F	TB SSB	ER F
38. RKCRAIBNS [Red king crab Norton Sound]	TB SSB	ER F	TB SSB	ER F
39. RKCRAIBPI [Red king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
40. RSOLEGA [Rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
41. SABLEFEBSAIGA [Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
42. SNOWCRABBS [Snow crab Bering Sea]	TB SSB	ER F	TB SSB	ER F
43. SRAKEROCKBSAI [Shortraker rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
44. SRAKEROCKGA [Shortraker rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
45. SSTHORNHGA [Shortspine thornyhead Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
46. TANNERCRABBSAI [Tanner crab Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
47. WPOLLAI [Walleye pollock Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
48. WPOLLBOGO [Walleye pollock Bogoslof]	TB SSB	ER F	TB SSB	ER F
49. WPOLLEBS [Walleye pollock Eastern Bering Sea]	TB SSB	ER F	TB SSB	ER F
50. WPOLLGA [Walleye pollock Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
51. WVSCALLALASKA [Weathervane scallop Alaska]	TB SSB	ER F	TB SSB	ER F
52. YEYEROCKGA [Yelloweye rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
53. YSOLEBSAI [Yellowfin sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

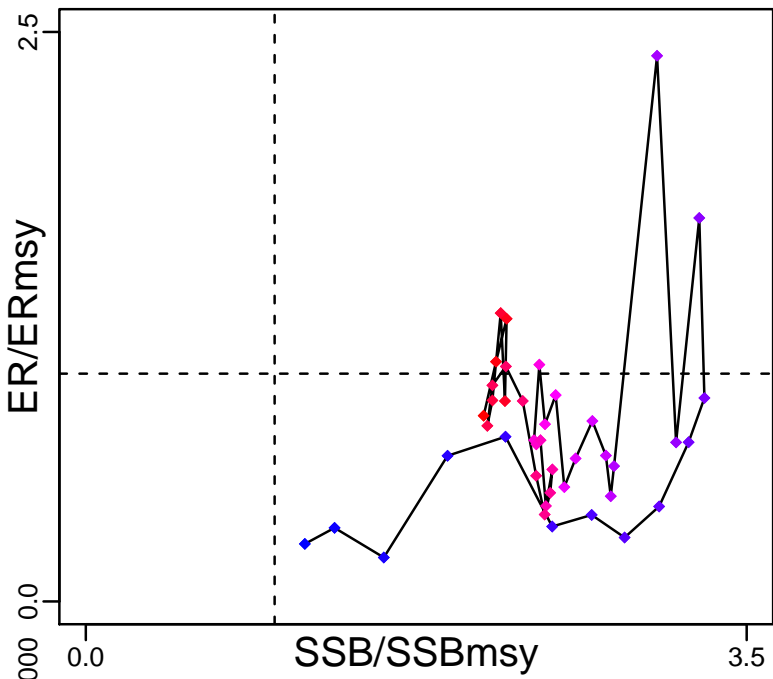
Metadata	
Scientific Name	Pleuronectes quadrituberculatus
Current Assess ID	AFSC-ALPLAICBSAI-1974-2016-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	96,700
Fmsy	Fmsy-pr-1/yr	2010	0.19
ERmsy	ERmsy-est-ratio	2016	0.037
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	8506
M	M-1/yr	2010	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.18
ERlim	-	-	-

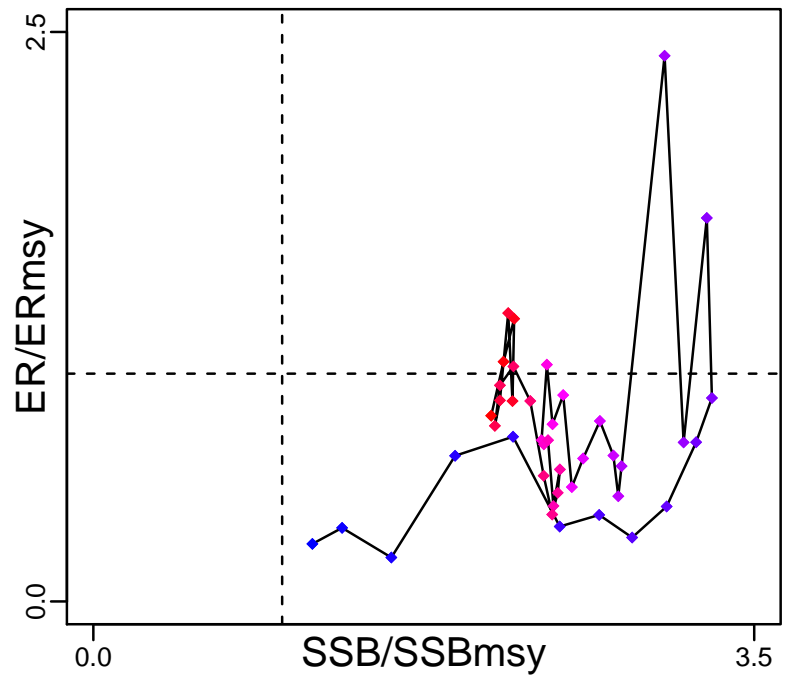
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	485,000	Both	1+
SSB	SSB-MT	2016	196,345	-	-
TN	-	-	-	-	-
R	R-E00	2016	6.18×10^{11}	-	1
F	F-1/yr	2016	0.044	-	-
ER	ER-calc-ratio	2016	0.03	-	-
TC	TC-MT	2016	14,614		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.03		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.176		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.815		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

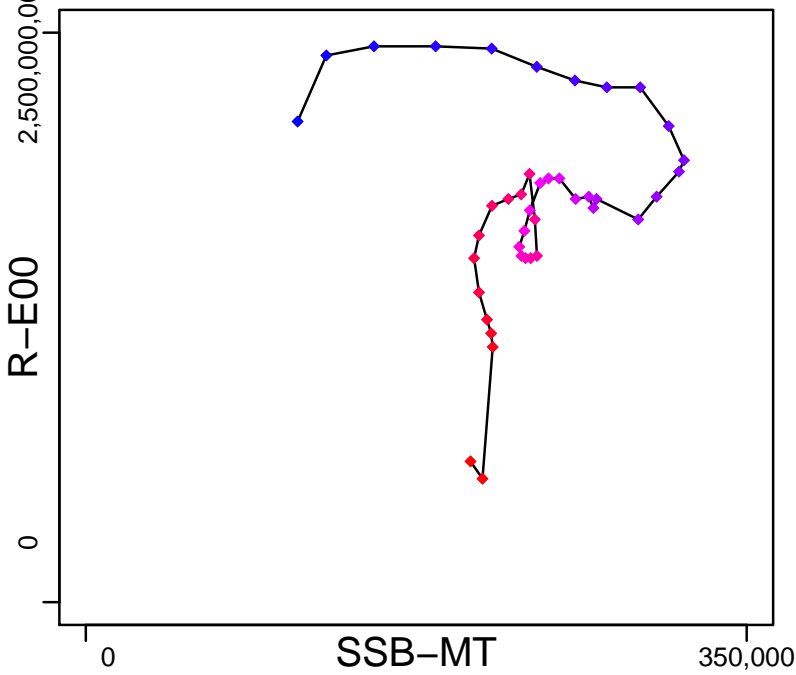
Kobe MSYpref (1974–2016–SISIMP2021)



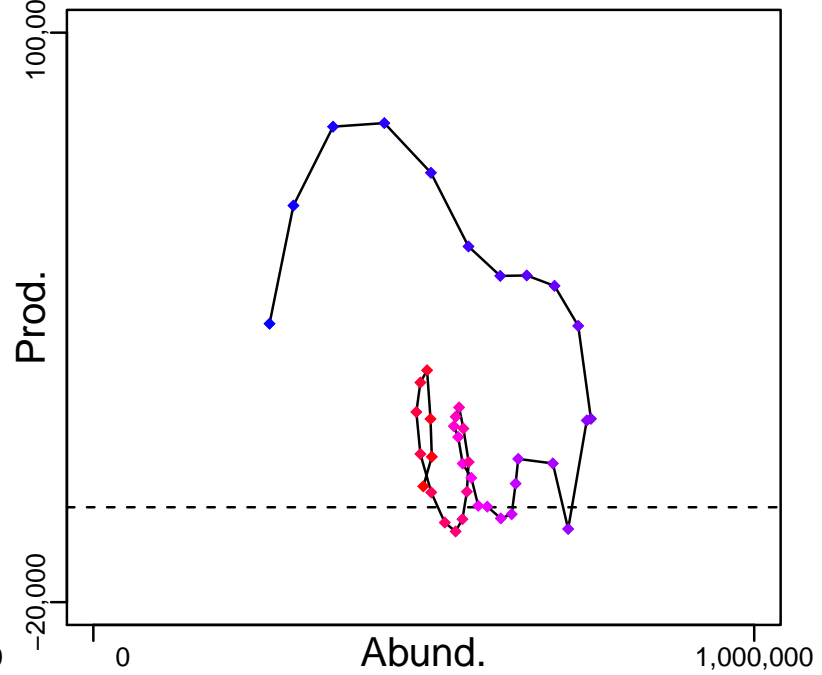
Kobe MGTpref (1974–2016–SISIMP2021)



Spawner Recruit (1974–2016–SISIMP2021)

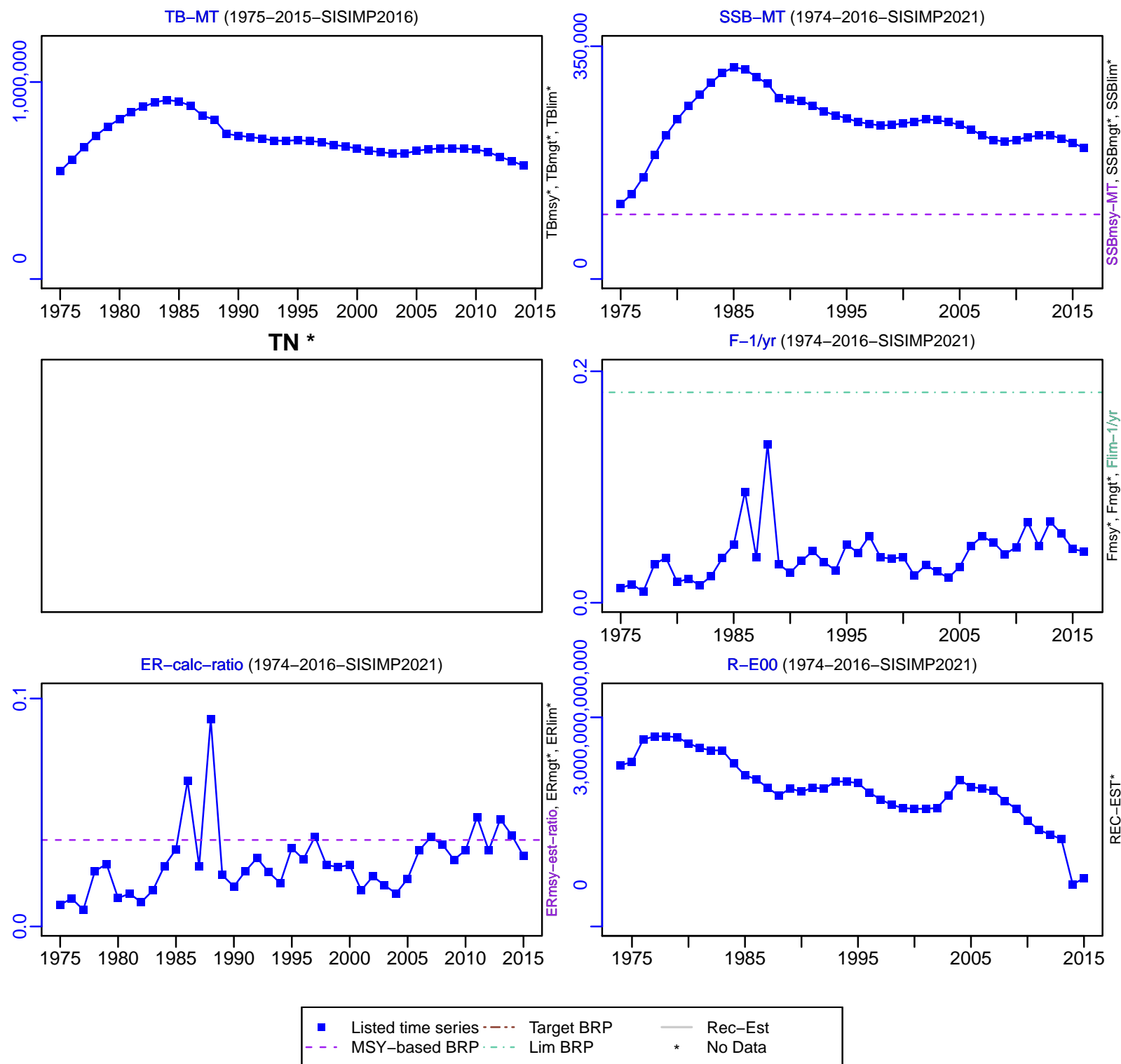


Production (1974–2016–SISIMP2021)



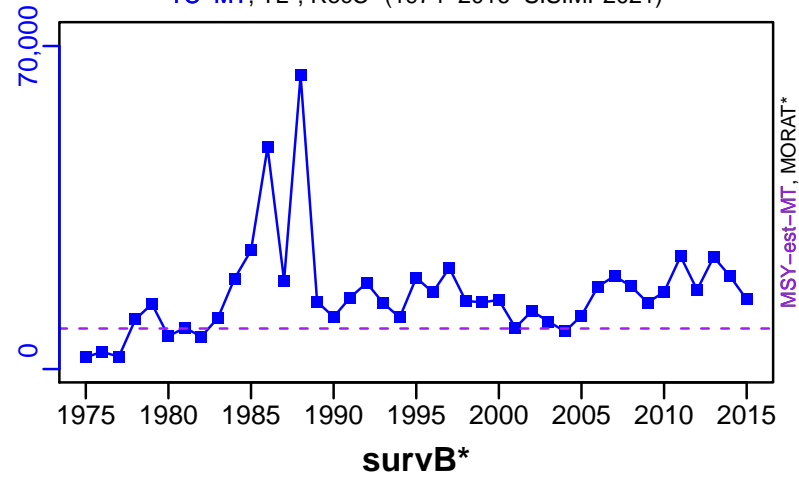
◆ Start Year ◆ End Year * No Data

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]



Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

TC-MT, TL*, RecC* (1974-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



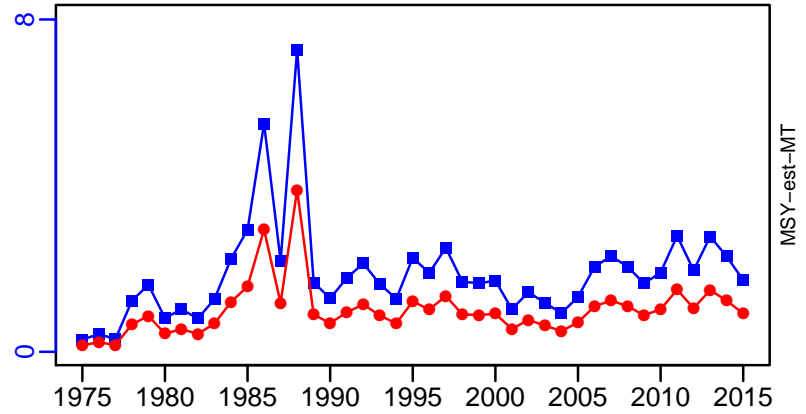
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1974-2016-SISIMP2021)



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

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

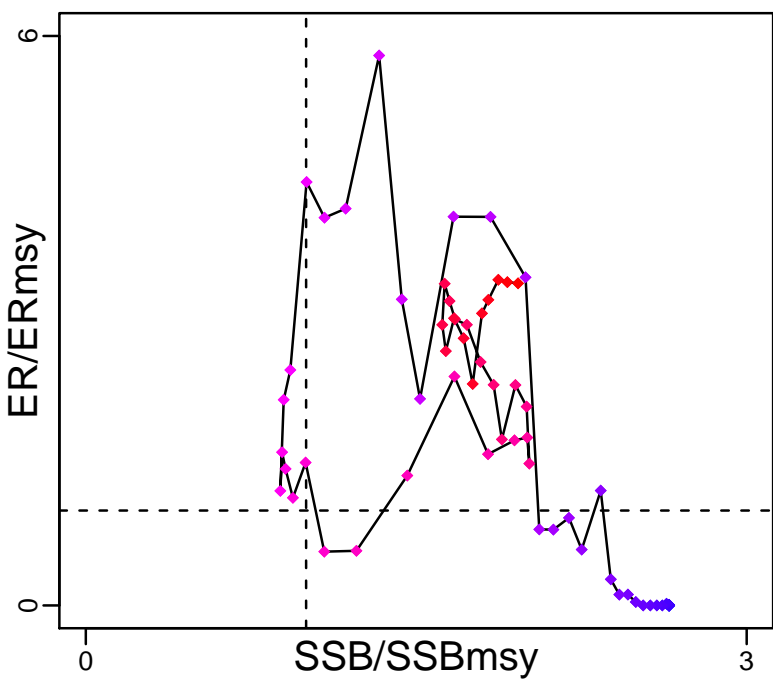
Metadata	
Scientific Name	Bathyraja parmifera
Current Assess ID	AFSC-ALSKABSAI-1950-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2018, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	126,388
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.012
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	3815
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.084
ERlim	-	-	-

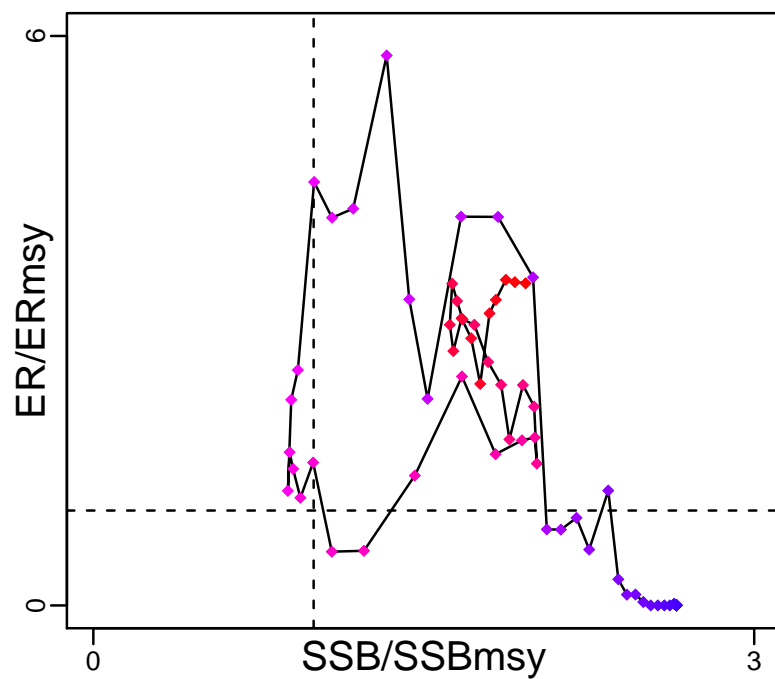
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	519,000	Both	0+
SSB	SSB-MT	2018	268,836	-	-
TN	-	-	-	-	-
R	R-E00	2018	22,516,000	-	0
F	F-1/yr	2016	0.056	-	-
ER	ER-ratio	2018	0.052	-	-
TC	TC-MT	2018	24,668		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	1.986		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	3.394		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

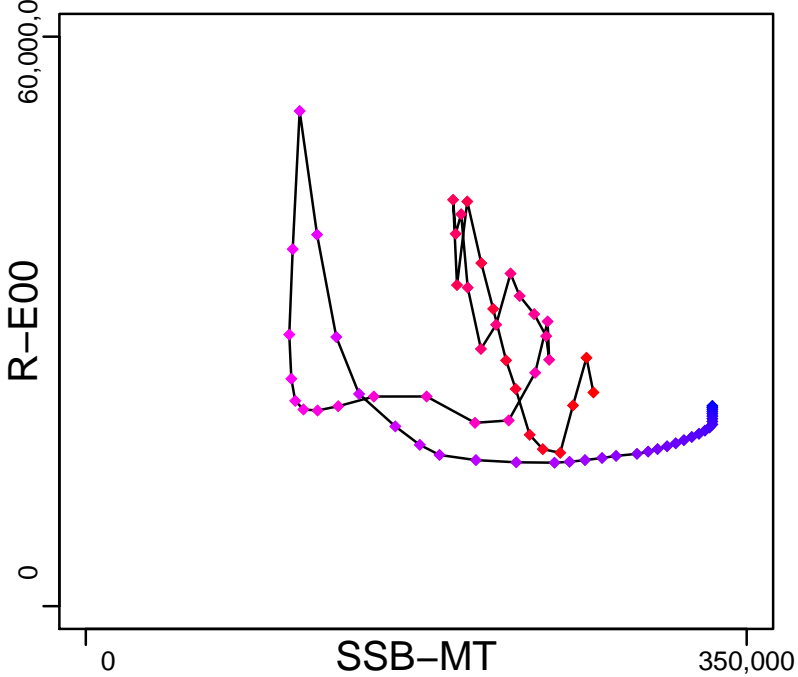
Kobe MSYpref (1950–2016–SISIMP2021)



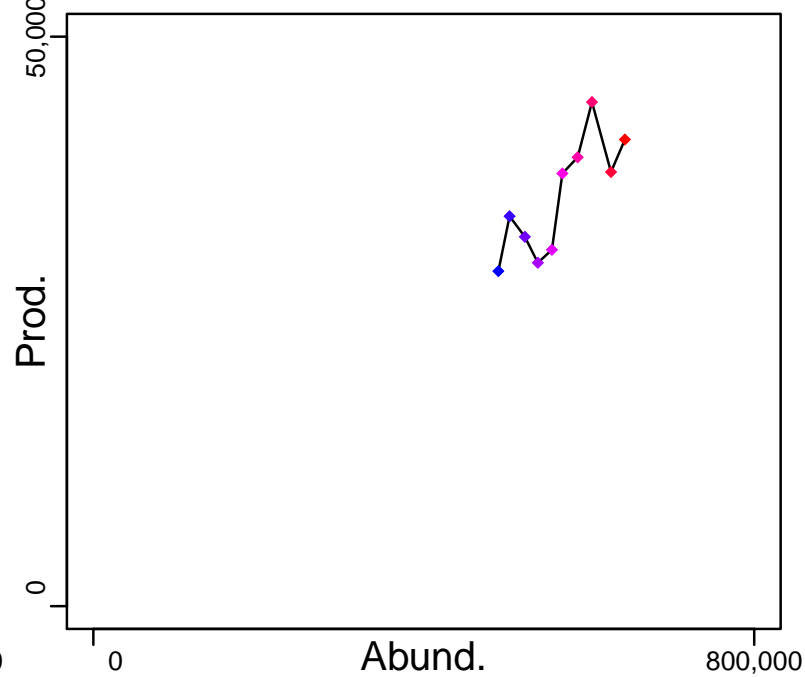
Kobe MGTpref (1950–2016–SISIMP2021)



Spawner Recruit (1950–2018–SISIMP2021)



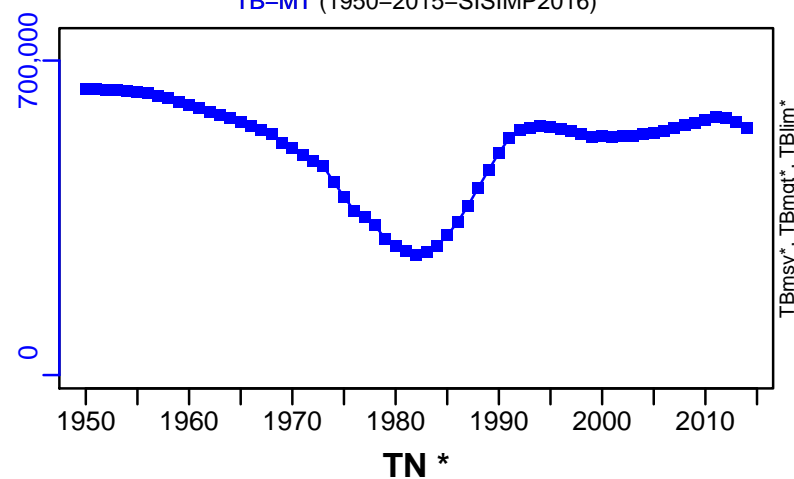
Production (1950–2018–SISIMP2021)



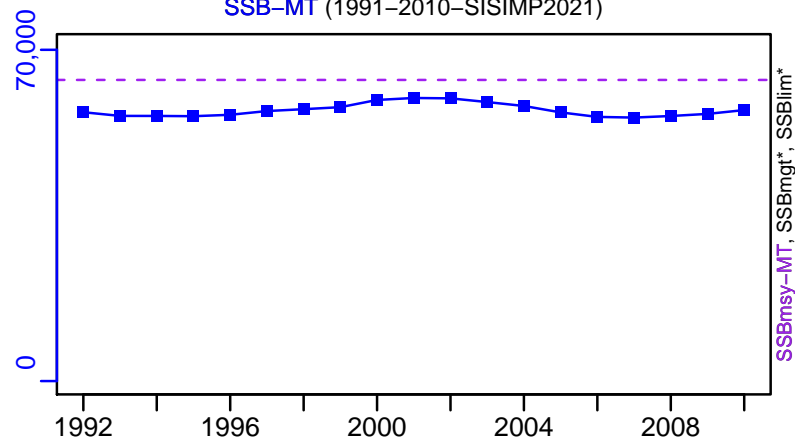
◆ Start Year ◆ End Year * No Data

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

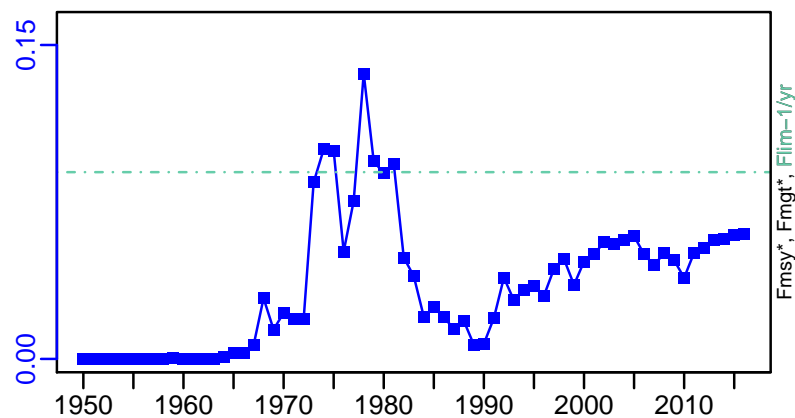
TB-MT (1950–2015–SISIMP2016)



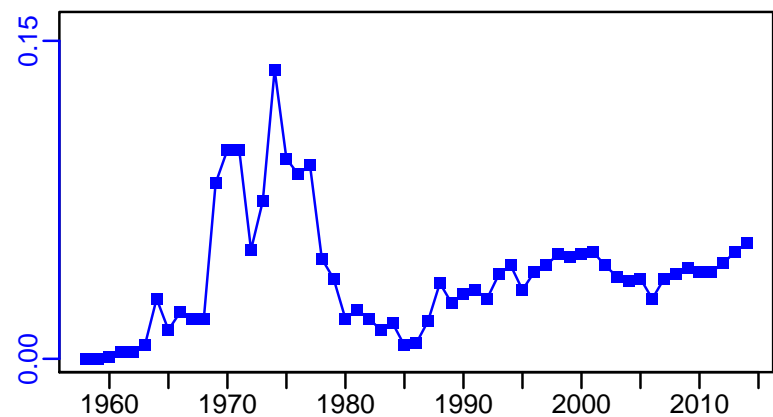
SSB-MT (1991–2010–SISIMP2021)



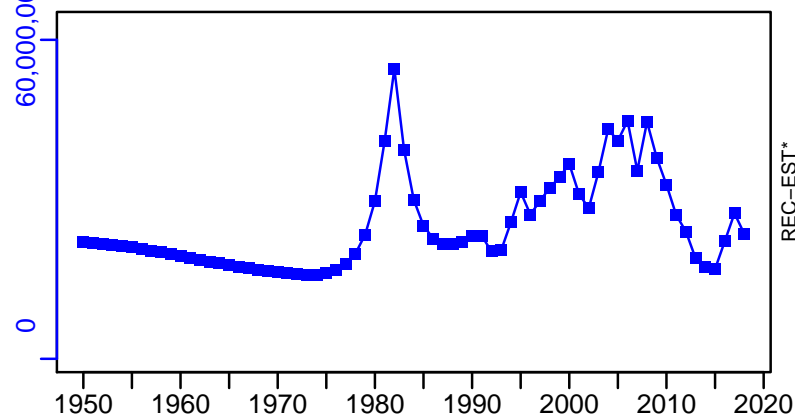
F-1/yr (1950–2016–SISIMP2021)



ER-ratio (1950–2018–SISIMP2021)



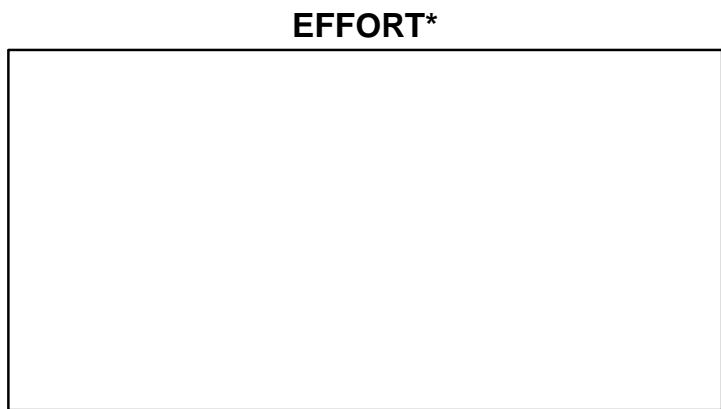
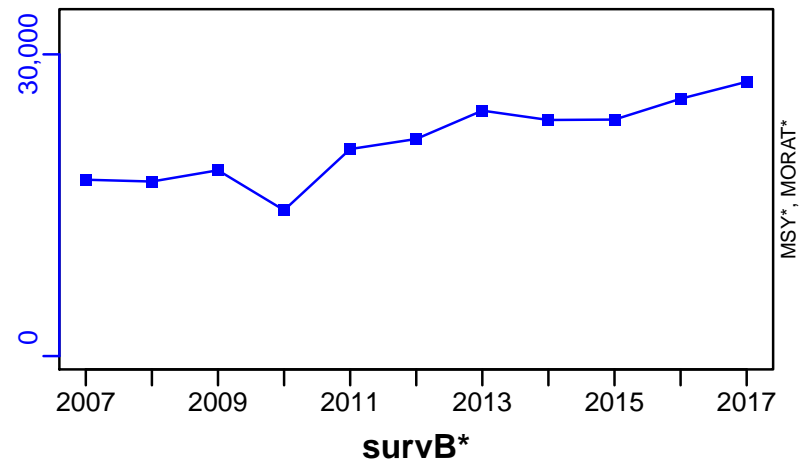
R-E00 (1950–2018–SISIMP2021)



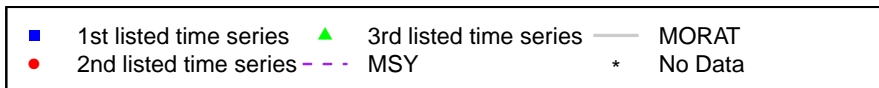
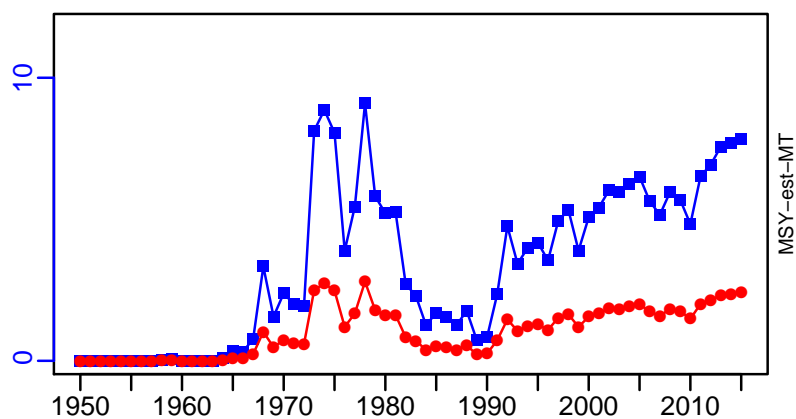
Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

TC-MT, TL*, RecC* (1950-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1950-2016-SISIMP2021)



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

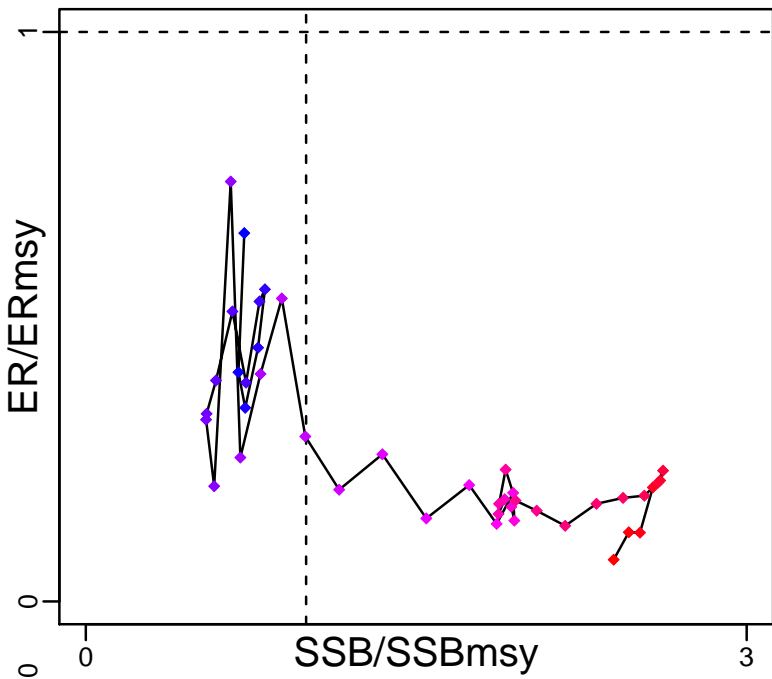
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDBSAI-1975-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	212,183
Fmsy	Fmsy-pr-1/yr	2010	0.29
ERmsy	ERmsy-est-ratio	2018	0.092
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	37,091
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.148
ERlim	-	-	-

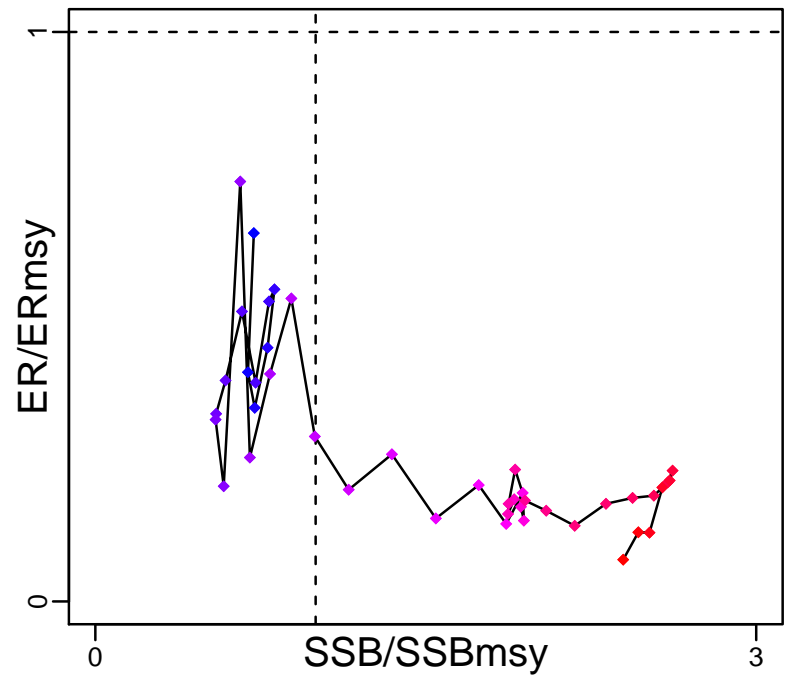
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	908,000	Both	1+
SSB	SSB-MT	2018	497,583	-	-
TN	-	-	-	-	-
R	R-E00	2018	670,048,000	-	1
F	F-1/yr	2018	0.012	-	-
ER	ER-calc-ratio	2018	0.007	-	-
TC	TC-MT	2018	6518		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.345		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.076		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.073		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

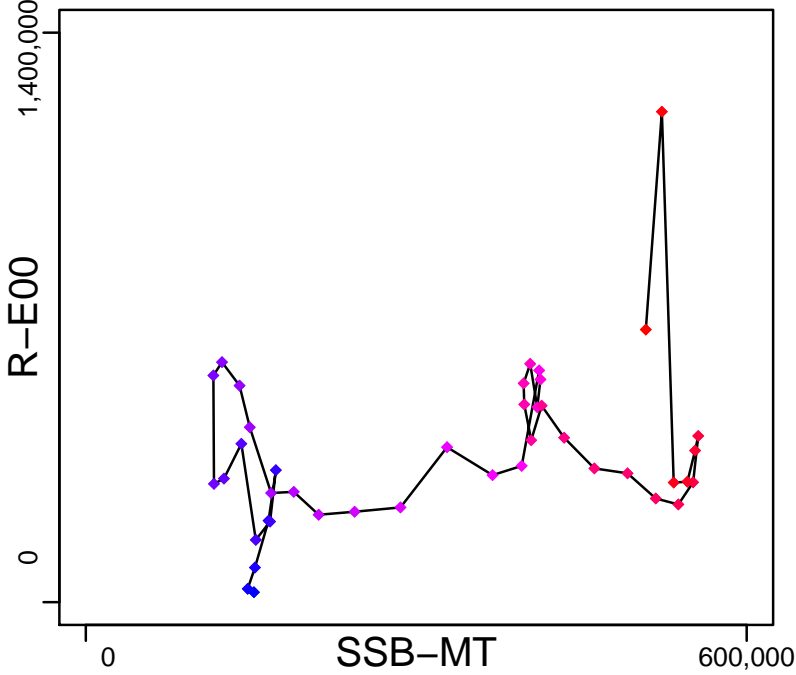
Kobe MSYpref (1975–2018–SISIMP2021)



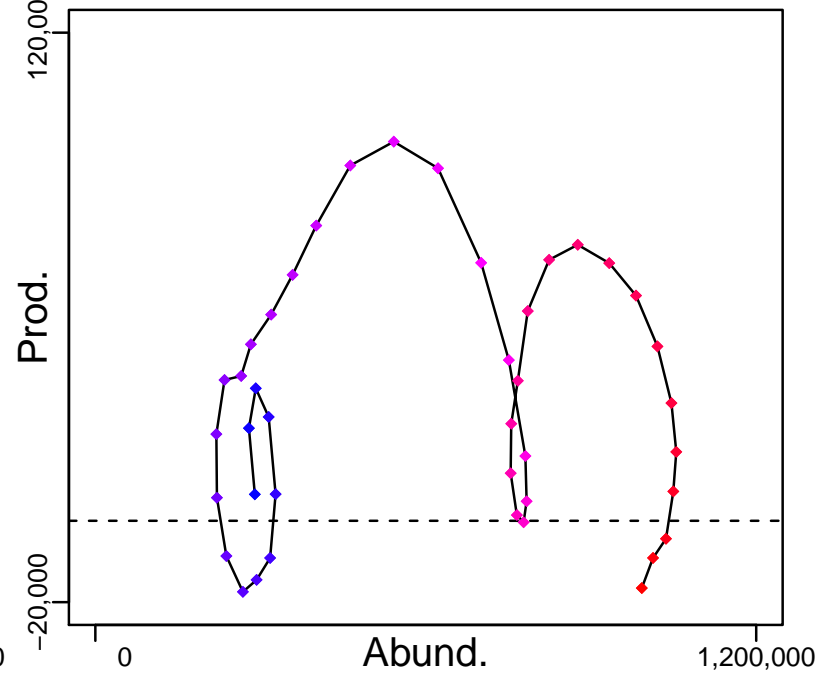
Kobe MGTpref (1975–2018–SISIMP2021)



Spawner Recruit (1975–2018–SISIMP2021)



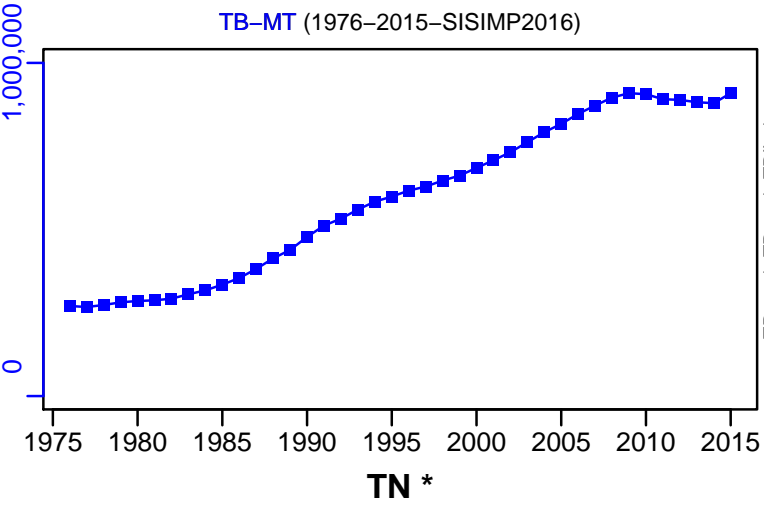
Production (1975–2018–SISIMP2021)



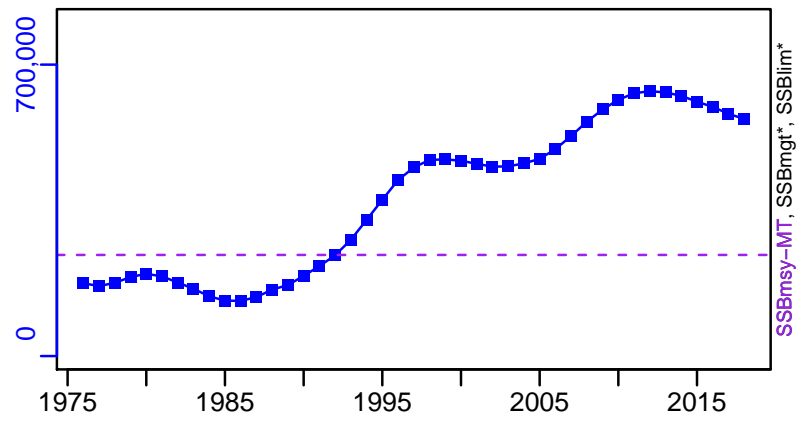
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

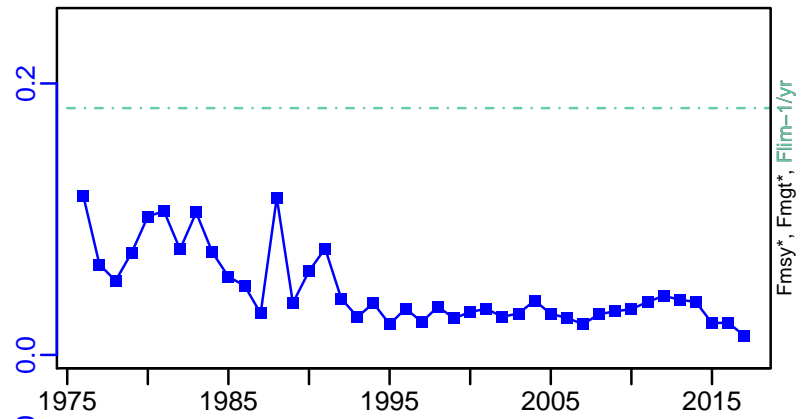
TB-MT (1976–2015–SISIMP2016)



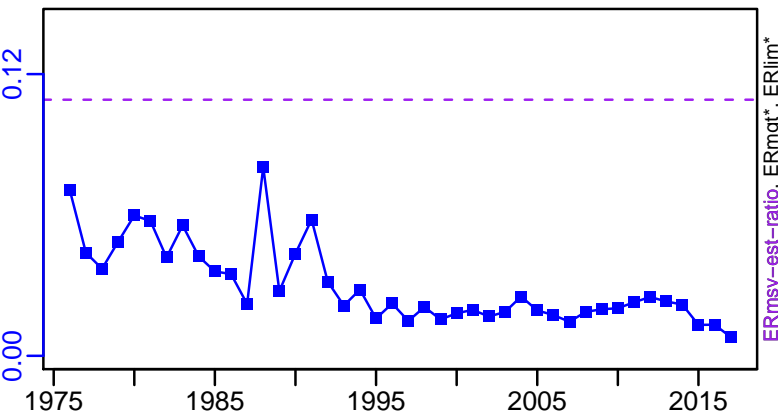
SSB-MT (1975–2018–SISIMP2021)



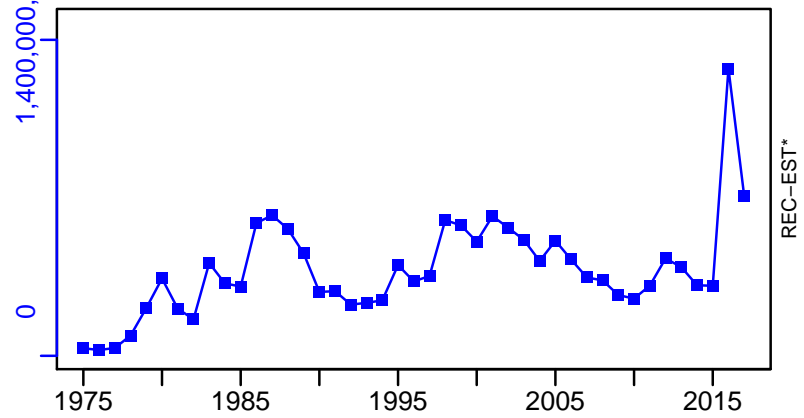
F-1/yr (1975–2018–SISIMP2021)



ER-calc-ratio (1975–2018–SISIMP2021)



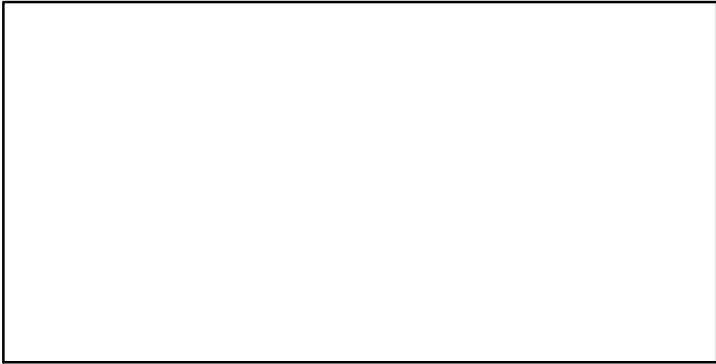
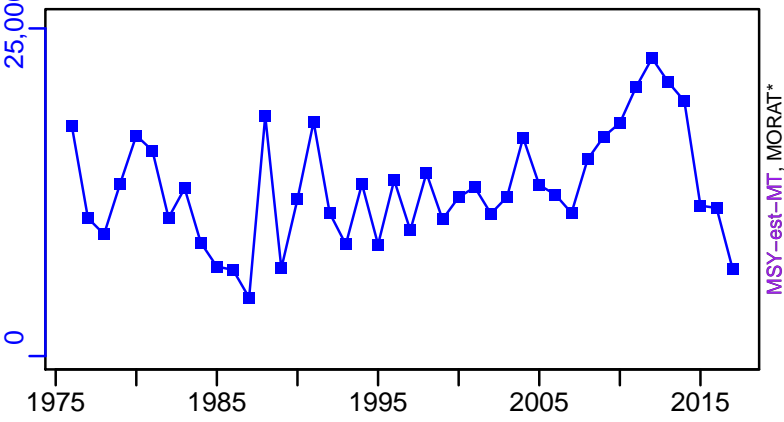
R-E00 (1975–2018–SISIMP2021)



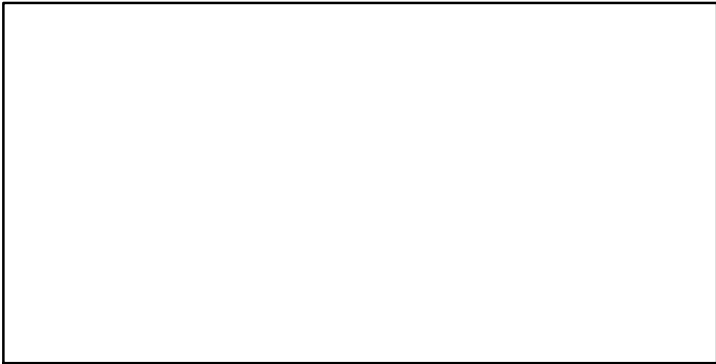
Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

TC-MT, TL*, RecC* (1975-2018-SISIMP2021)

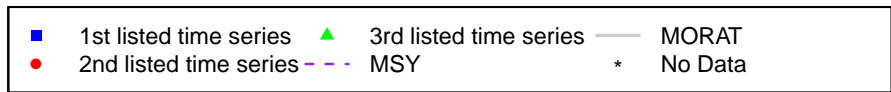
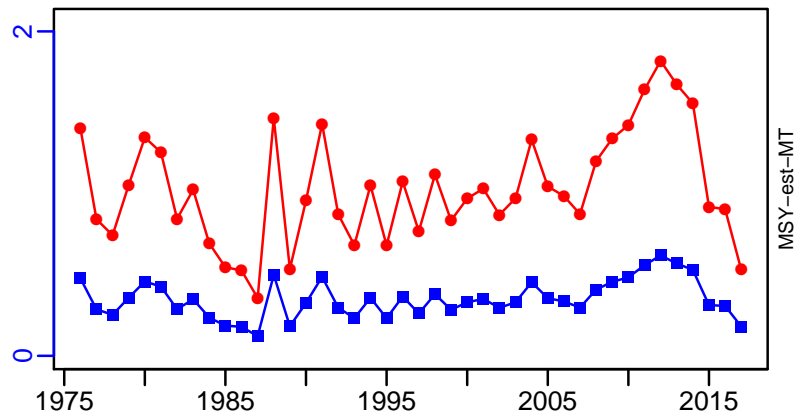
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1975-2018-SISIMP2021)



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

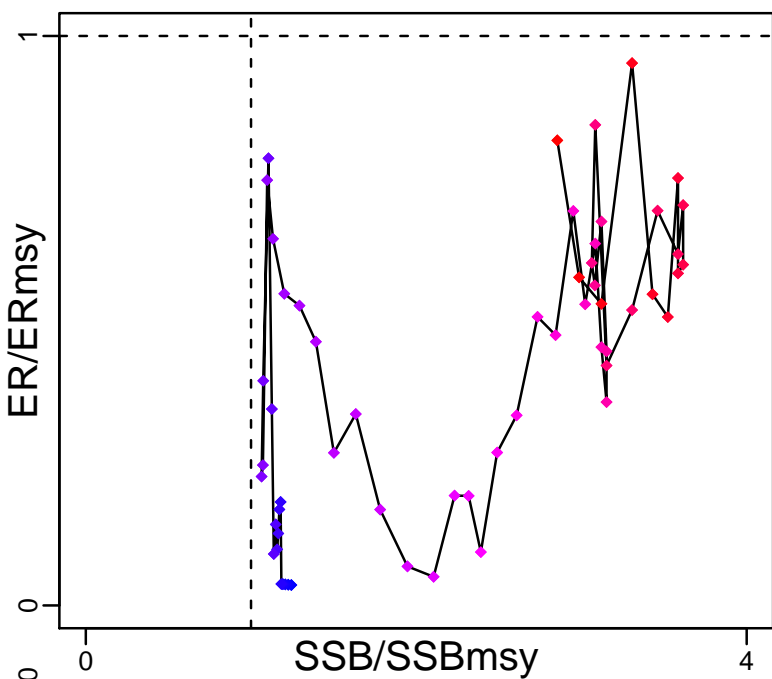
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDGA-1960-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	1,125,923
SSBmsy	SSBmsy-MT	2017	323,625
Fmsy	Fmsy-pr-1/yr	2010	0.219
ERmsy	ERmsy-ratio	2010	0.226
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	254,271
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.204
ERlim	-	-	-

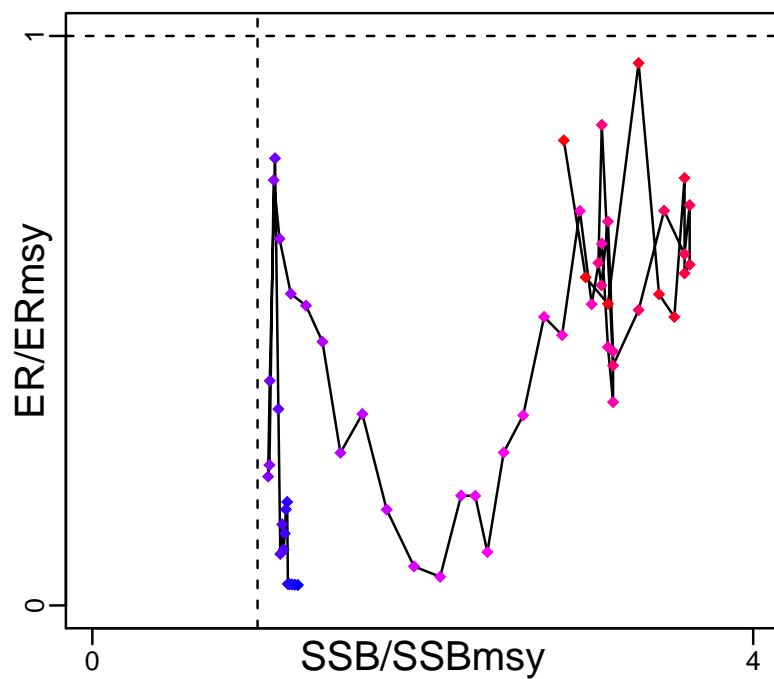
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,090,000	-	1+
SSB	SSB-MT	2017	923,548	-	-
TN	-	-	-	-	-
R	R-E00	2017	4.36×10^8	-	1
F	F-1/yr	2017	0.021	-	-
ER	ER-calc-ratio	2017	0.015	-	-
TC	TC-MT	2017	26,865		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.901		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.854		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.079		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.046		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

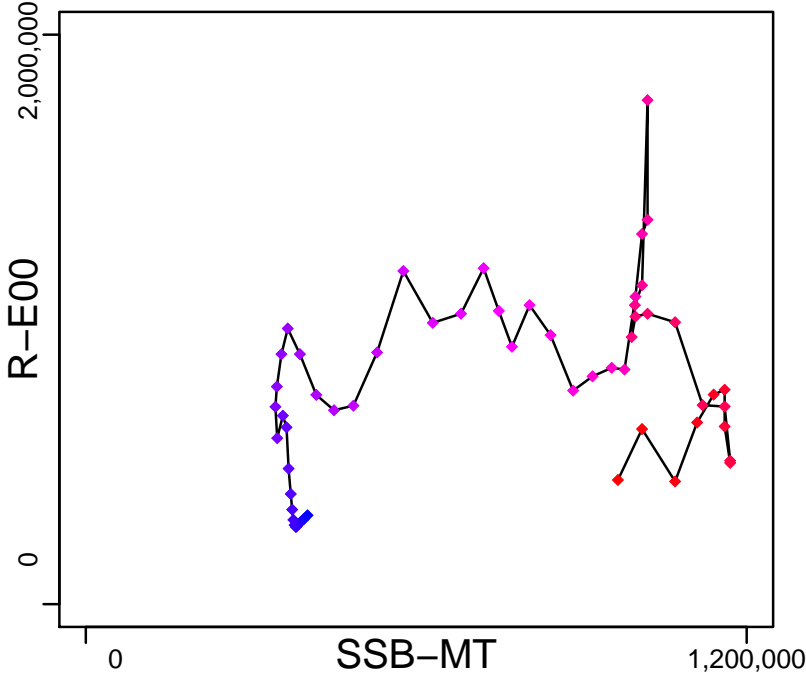
Kobe MSYpref (1960–2017–SISIMP2021)



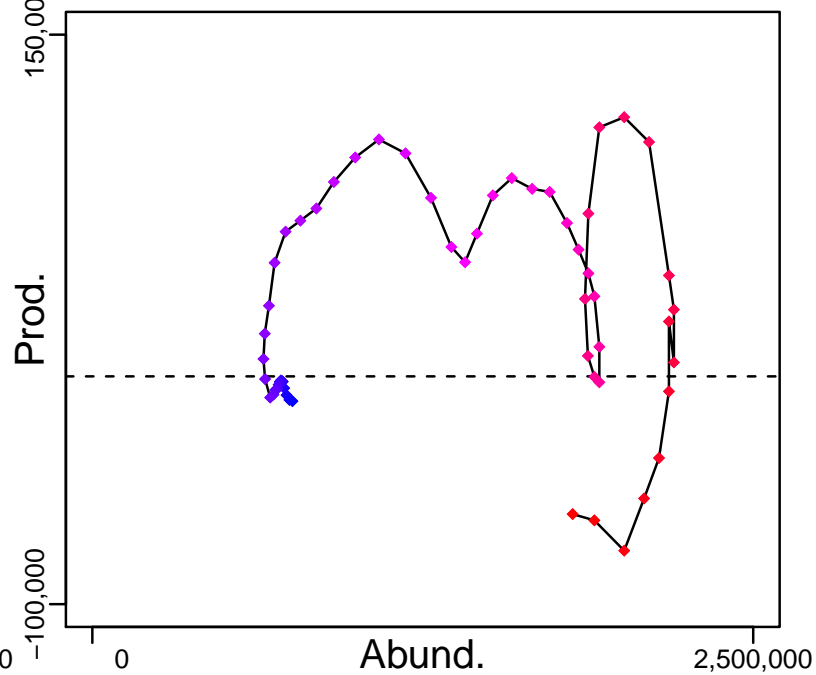
Kobe MGTpref (1960–2017–SISIMP2021)



Spawner Recruit (1960–2017–SISIMP2021)



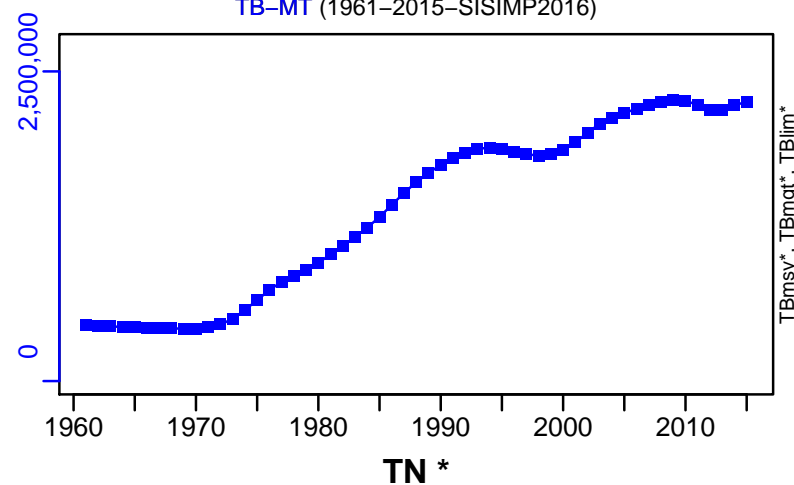
Production (1960–2017–SISIMP2021)



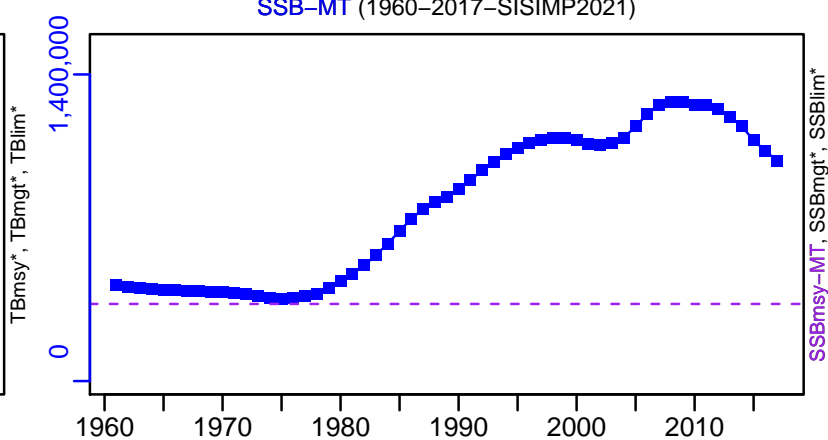
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

TB-MT (1961–2015–SISIMP2016)



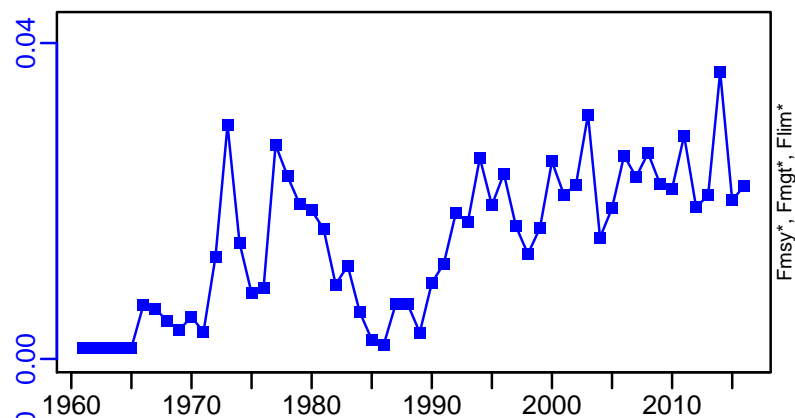
SSB-MT (1960–2017–SISIMP2021)



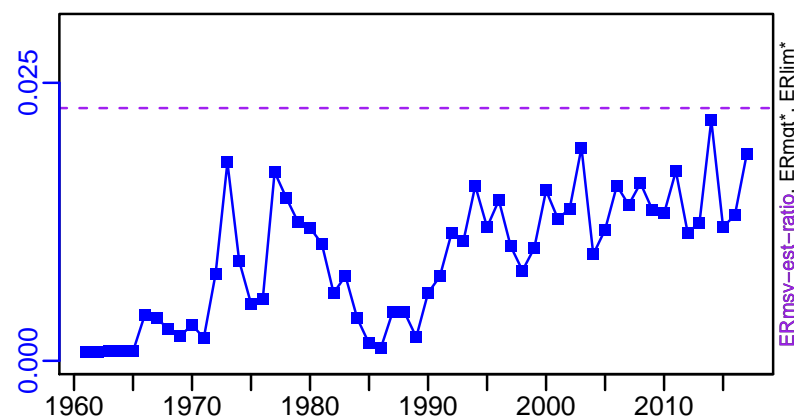
TN *



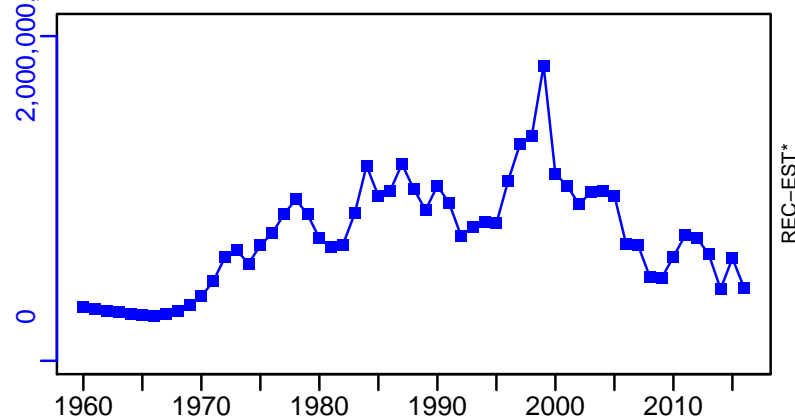
F-1/yr (1960–2017–SISIMP2021)



ER-calc-ratio (1960–2017–SISIMP2021)

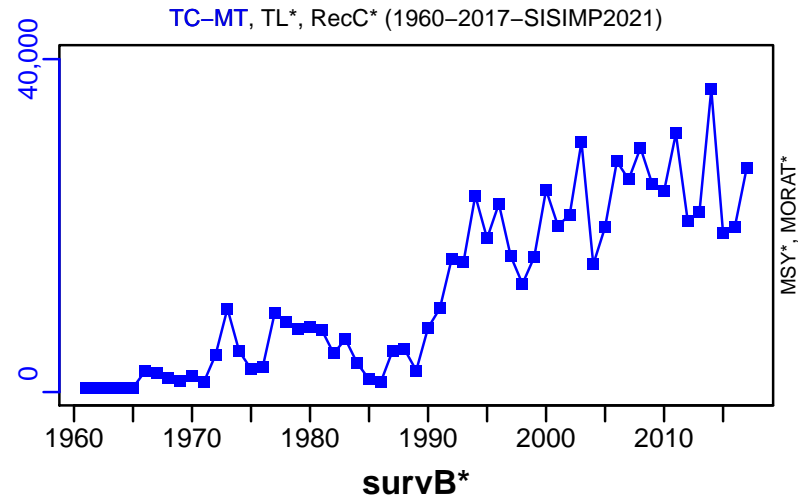


R-E00 (1960–2017–SISIMP2021)



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

TC-MT, TL*, RecC* (1960–2017–SISIMP2021)



TAC*, Cpair*, Cadv*



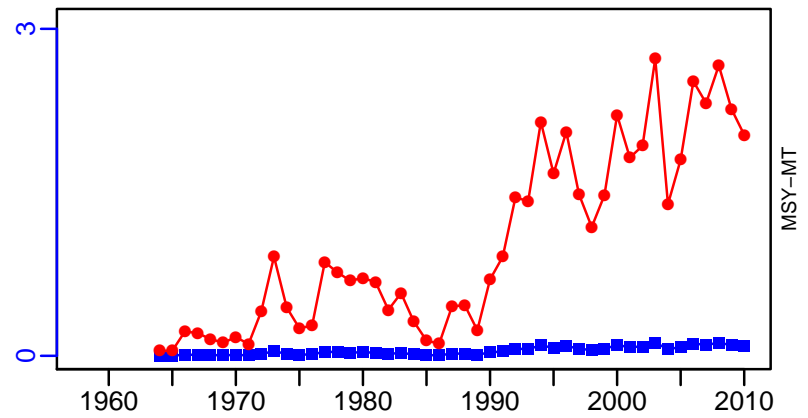
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1958–2010–STACHURA)



Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

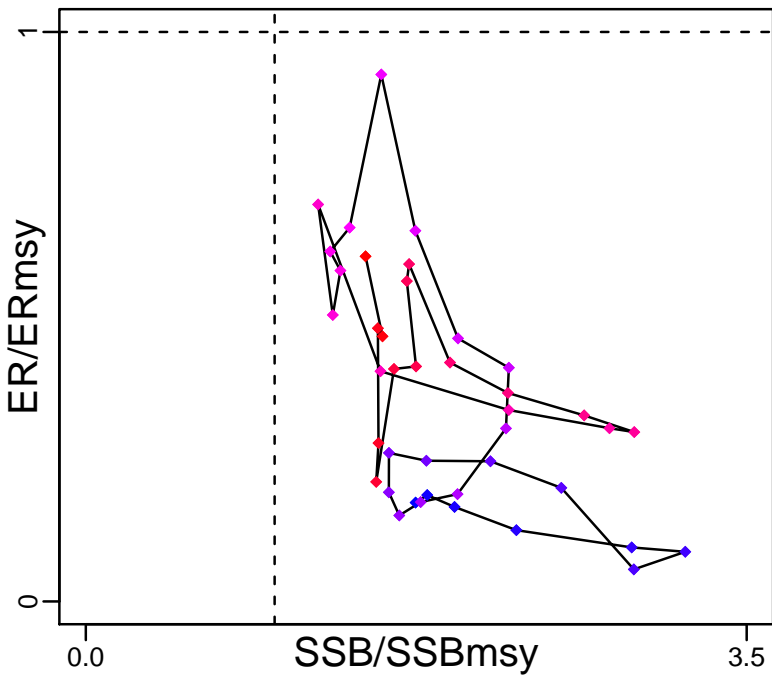
Metadata	
Scientific Name	Pleurogrammus monopterygius
Current Assess ID	AFSC-ATKABSAI-1976-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	99,320
Fmsy	Fmsy-pr-1/yr	2011	0.468
ERmsy	ERmsy-est-ratio	2018	0.227
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	71,785
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2017	0.4
ERlim	-	-	-

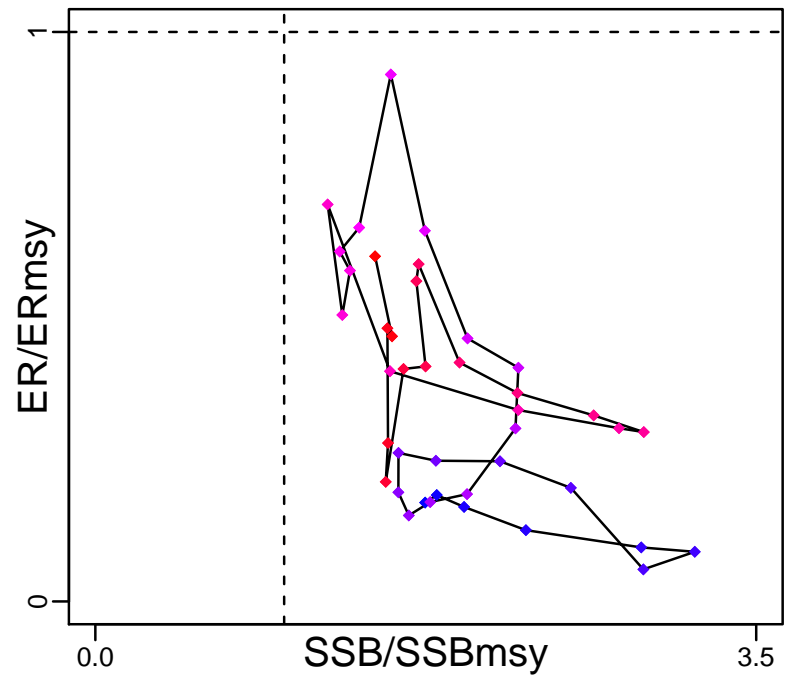
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	589,000	-	1+
SSB	SSB-MT	2018	123,188	-	-
TN	-	-	-	-	-
R	R-E00	2018	470,657	-	1
F	F-1/yr	2018	0.292	-	-
ER	ER-calc-ratio	2018	0.137	-	-
TC	TC-MT	2018	64,451		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.24		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.665		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.606		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

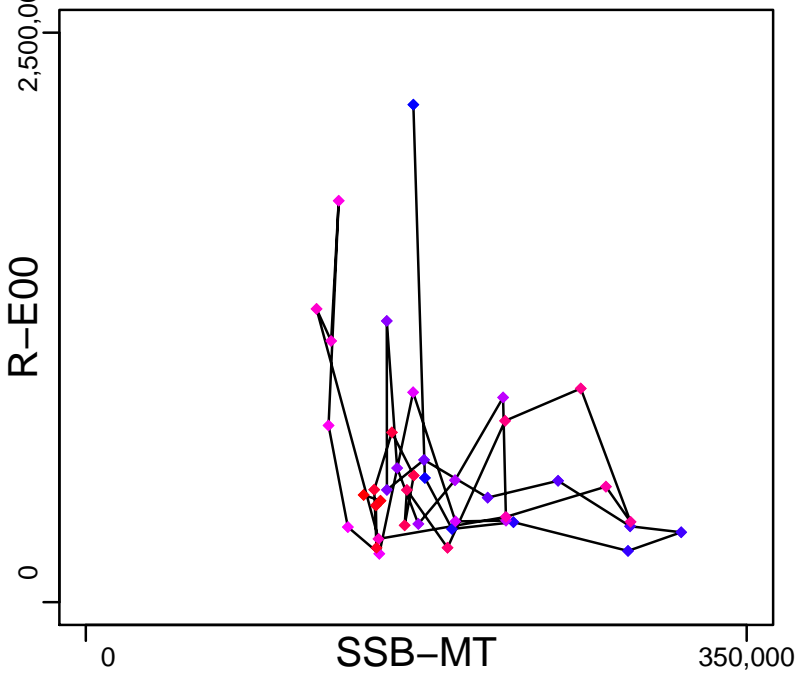
Kobe MSY_{pref} (1976–2018–SISIMP2021)



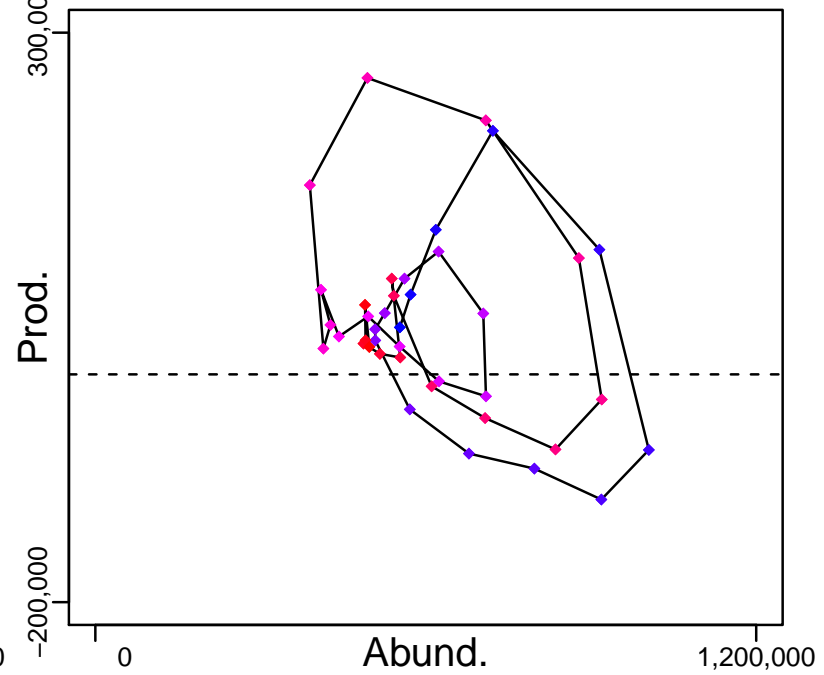
Kobe MGT_{pref} (1976–2018–SISIMP2021)



Spawner Recruit (1976–2018–SISIMP2021)

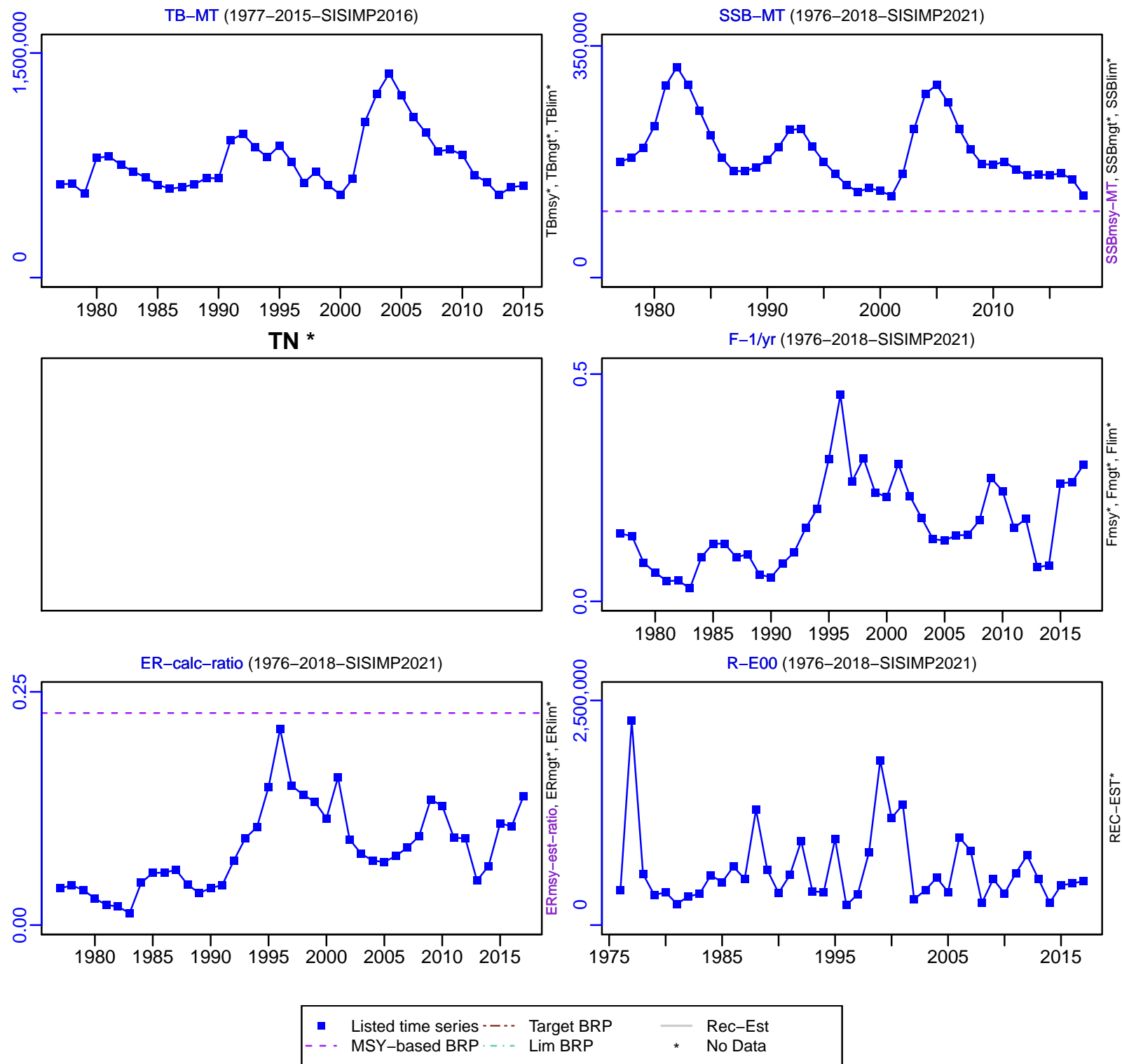


Production (1976–2018–SISIMP2021)



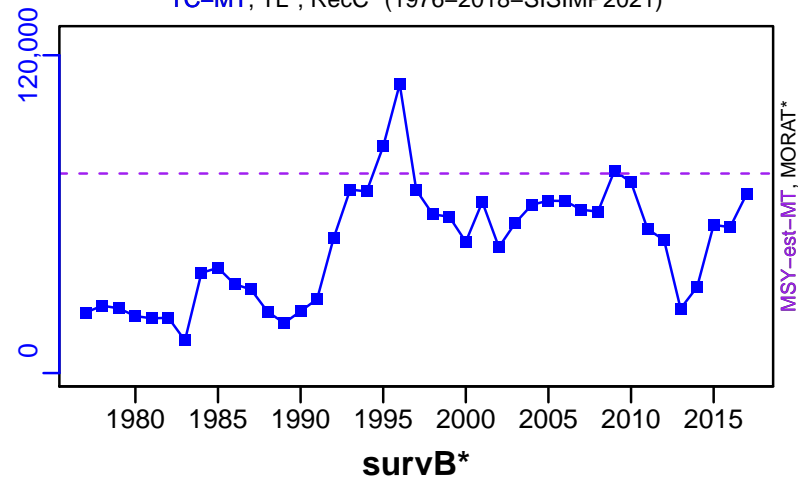
◆ Start Year ◆ End Year * No Data

Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]



Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

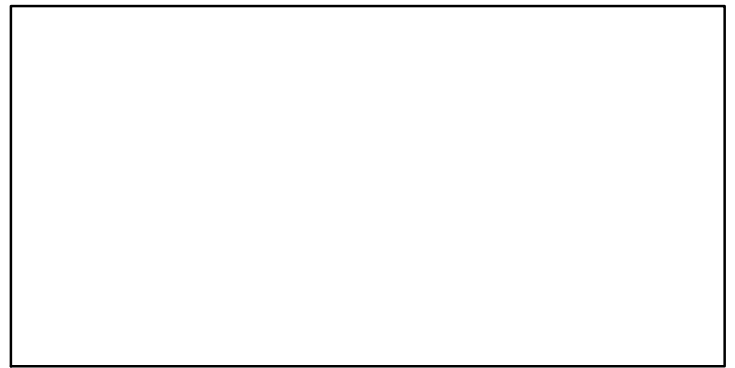
TC-MT, TL*, RecC* (1976–2018–SISIMP2021)



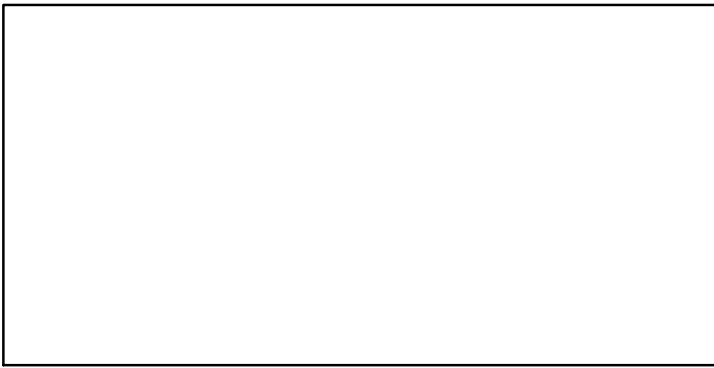
TAC*, Cpair*, Cadv*



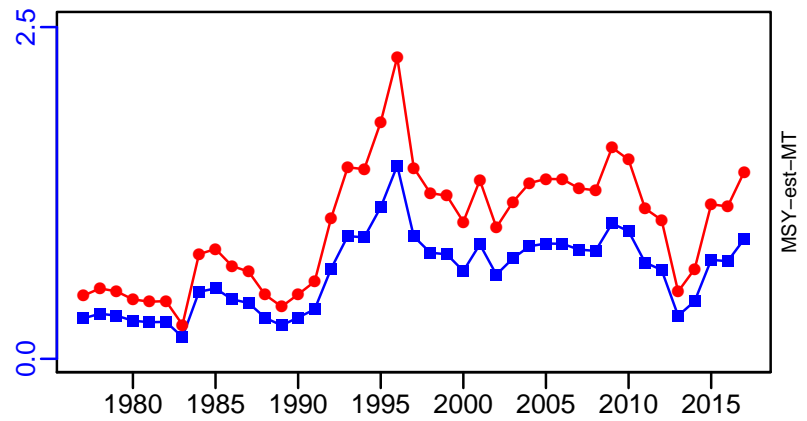
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1976–2018–SISIMP2021)



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

Atka mackerel Gulf of Alaska [ATKAGA]

Metadata	
Scientific Name	Pleurogrammus monopterygius
Current Assess ID	AFSC-ATKAGA-1977-2015-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	1228		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Atka mackerel Gulf of Alaska [ATKAGA]

TB*



SSB*



TN *



F*



ER*



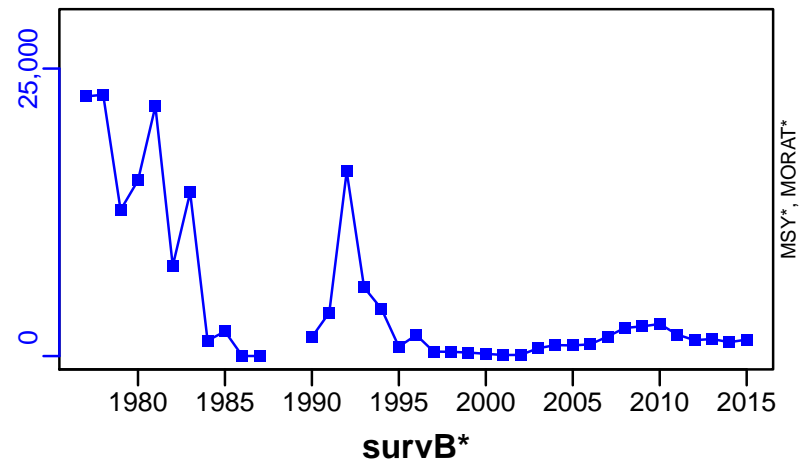
Recruits*



Atka mackerel Gulf of Alaska [ATKAGA]

TC-MT, TL*, RecC* (1977-2015-SISIMP2021)

TAC*, Cpair*, Cadv*



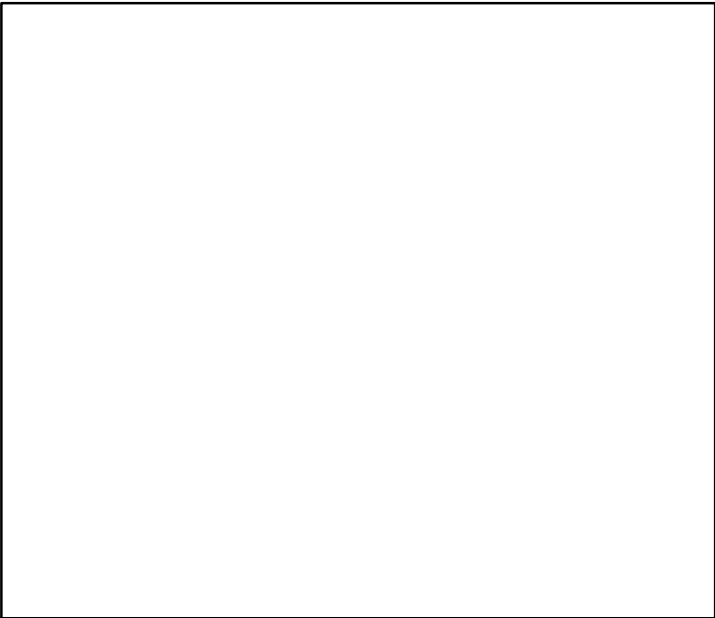
Blue king crab Pribilof Islands [BKINGCRABPI]

Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABPI-1975-2017-SISIMP2021
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2017, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	4209
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	594	-	-
SSB	SSB-MT	2008	345	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0	-	-
TC	TC-MT	2017	0.38		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.082		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

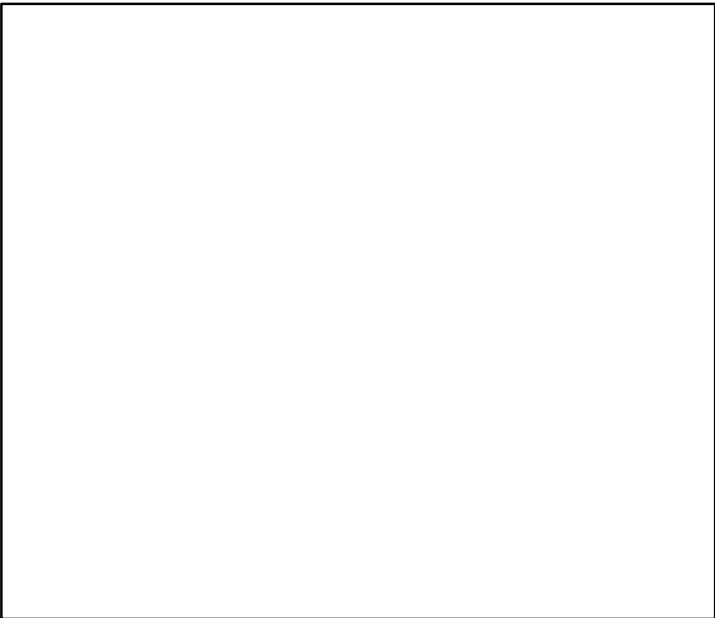
Kobe MSY*



Kobe MGT*



Spawner Recruit*



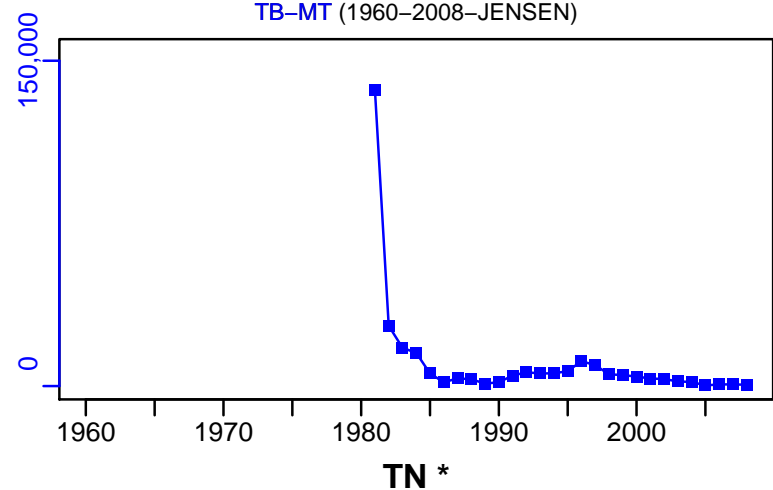
Production*



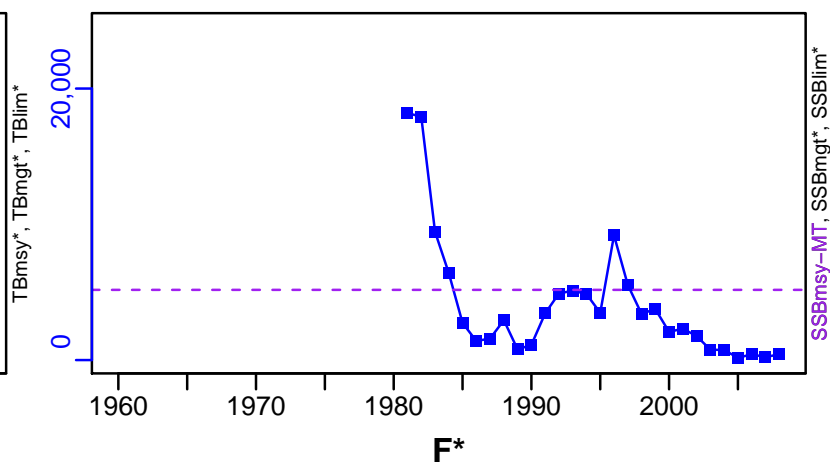
◆ Start Year ◆ End Year * No Data

Blue king crab Pribilof Islands [BKINGCRABPI]

TB-MT (1960-2008-JENSEN)



SSB-MT (1960-2008-JENSEN)



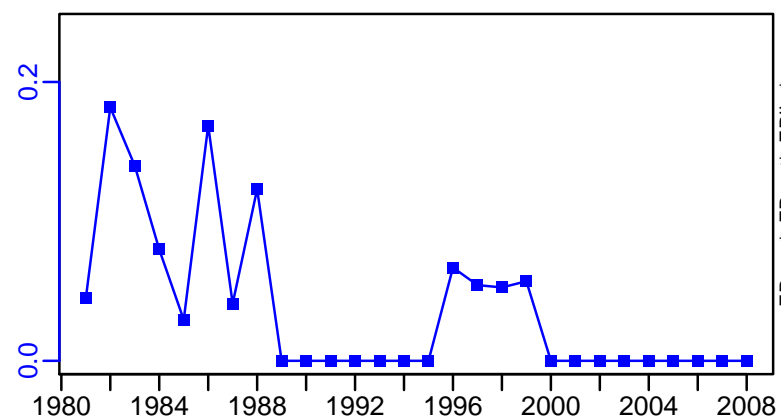
TN *



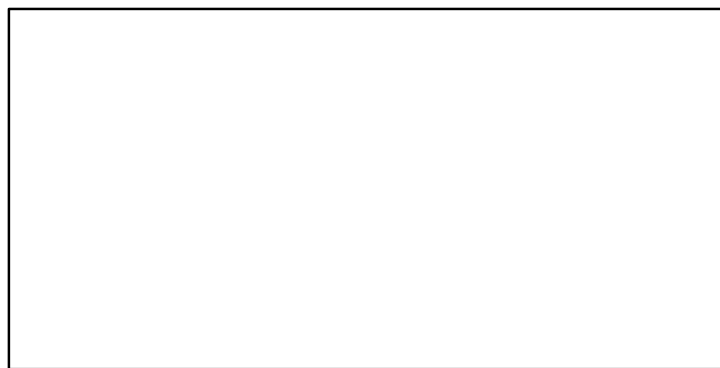
F*



ER-ratio (1960-2008-JENSEN)

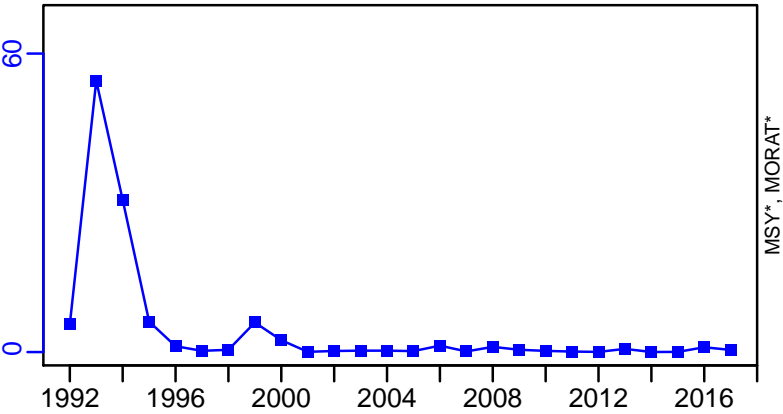


Recruits*



Blue king crab Pribilof Islands [BKINGCRABPI]

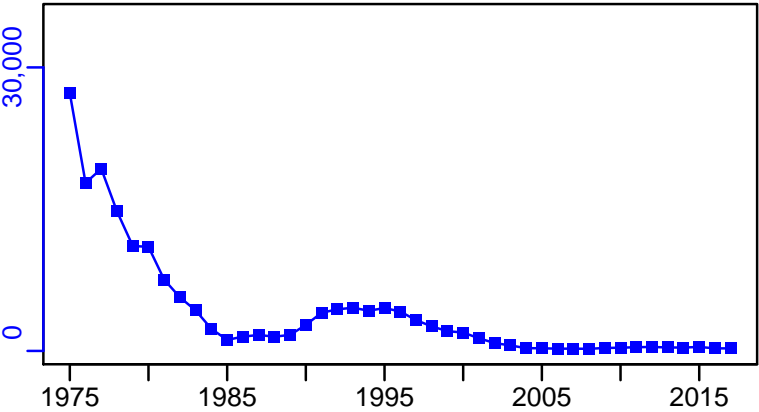
TC-MT, TL*, RecC* (1975-2017-SISIMP2021)



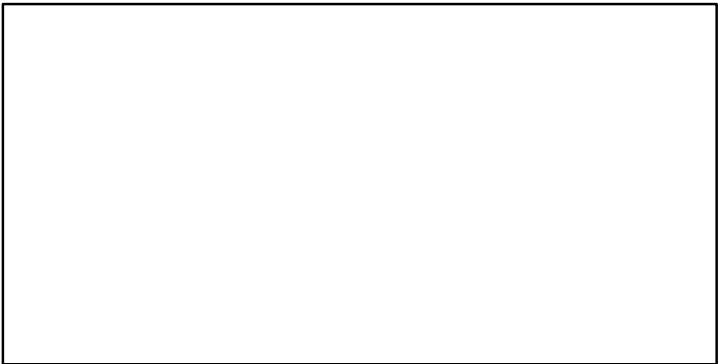
TAC*, Cpair*, Cadv*



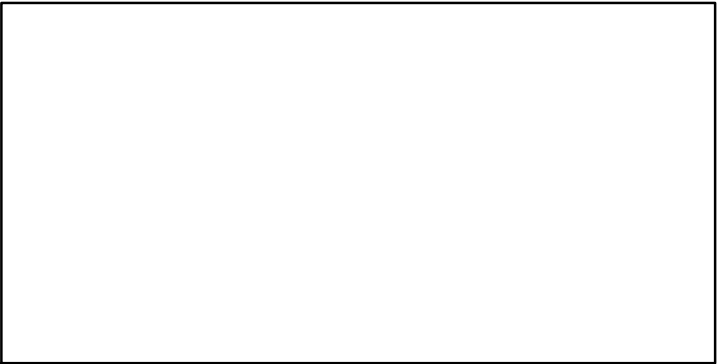
survB-MT (1975-2017-SISIMP2021)



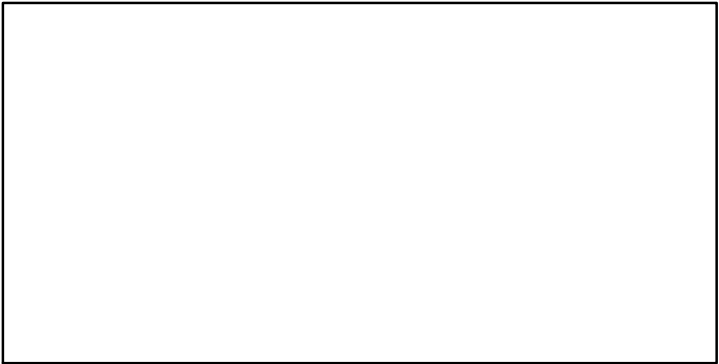
CPUE*



EFFORT*



CdivMSY*



Blue king crab Saint Matthews Island [BKINGCRABSMI]

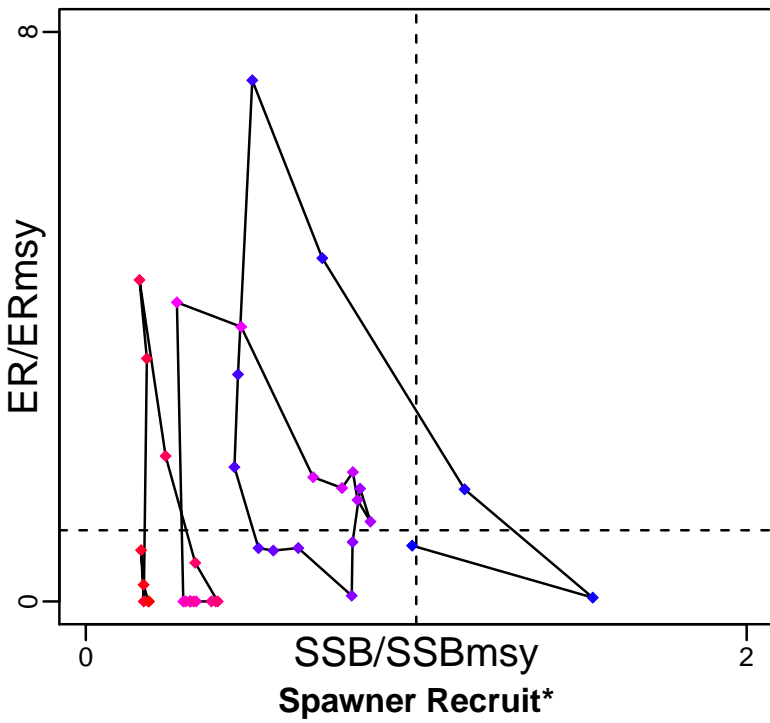
Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABSMI-1978-2018-SISIMP2021
Area	Saint Matthews Island
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	3351
Fmsy	Fmsy-pr-1/yr	2008	0.18
ERmsy	ERmsy-est-ratio	2018	0.157
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	1163
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

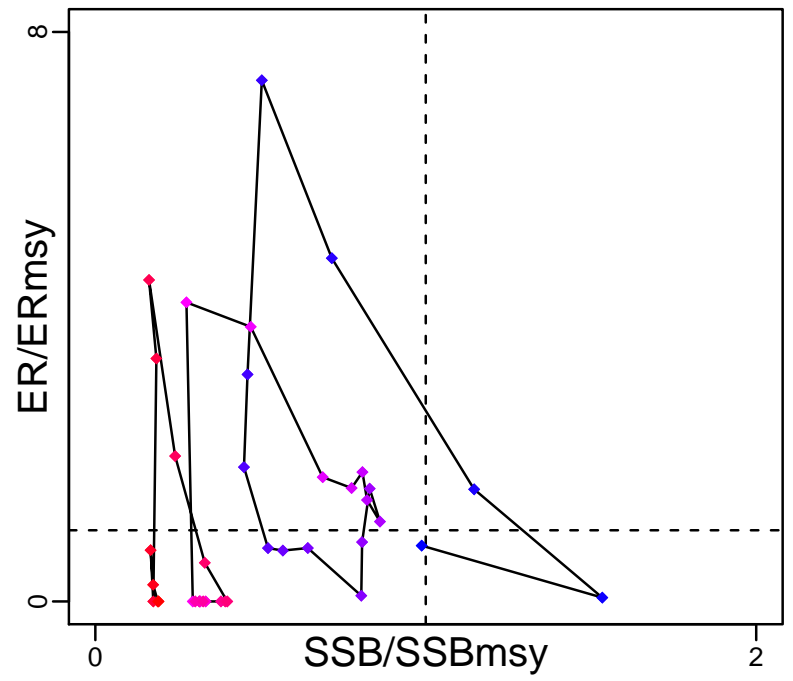
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	1309	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0	-	-
TC	TC-MT	2018	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.453		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blue king crab Saint Matthews Island [BKINGCRABSMI]

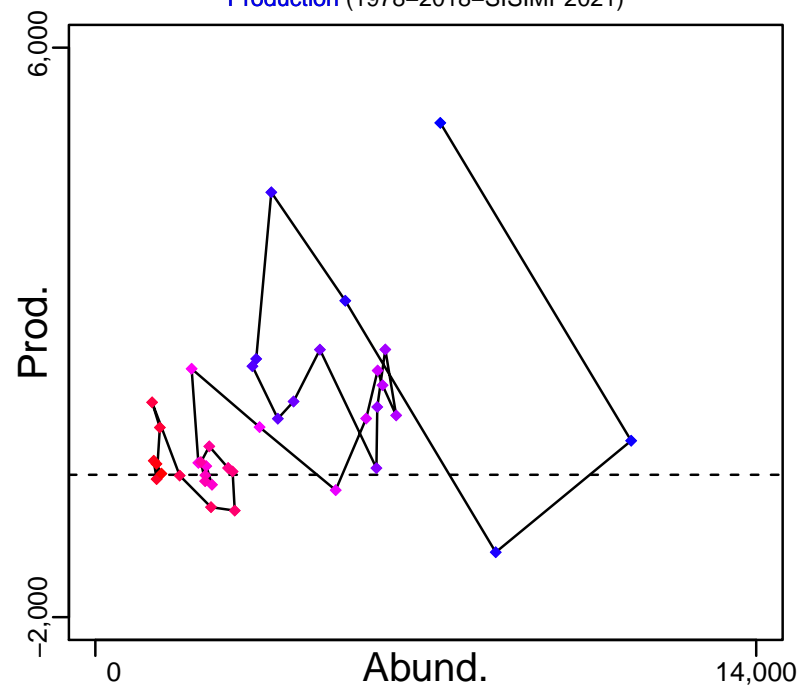
Kobe MSY_{pref} (1978–2018–SISIMP2021)



Kobe MGT_{pref} (1978–2018–SISIMP2021)



Production (1978–2018–SISIMP2021)



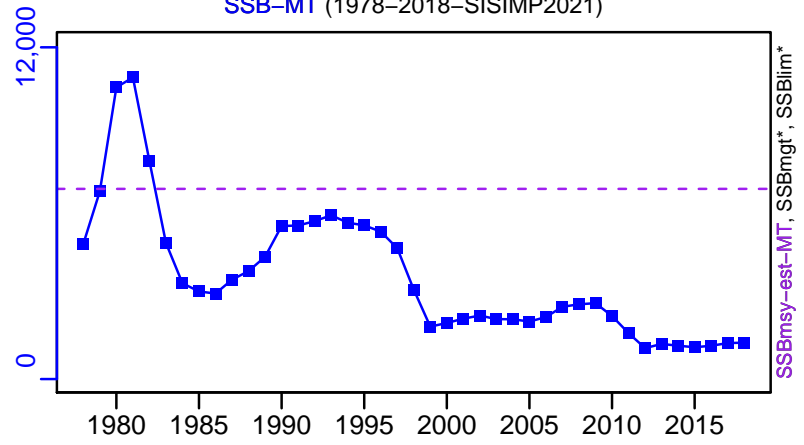
◆ Start Year ◆ End Year * No Data

Blue king crab Saint Matthews Island [BKINGCRABSMI]

TB*



SSB-MT (1978-2018-SISIMP2021)



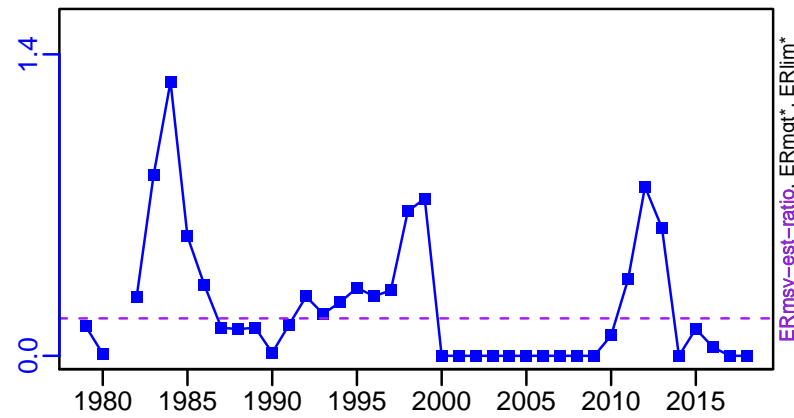
TN *



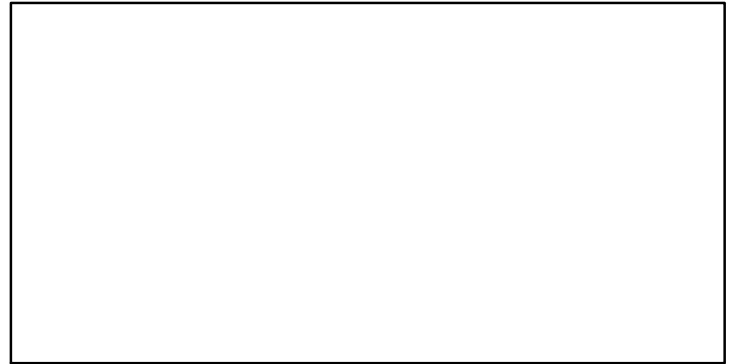
F*



ER-calc-ratio (1978-2018-SISIMP2021)

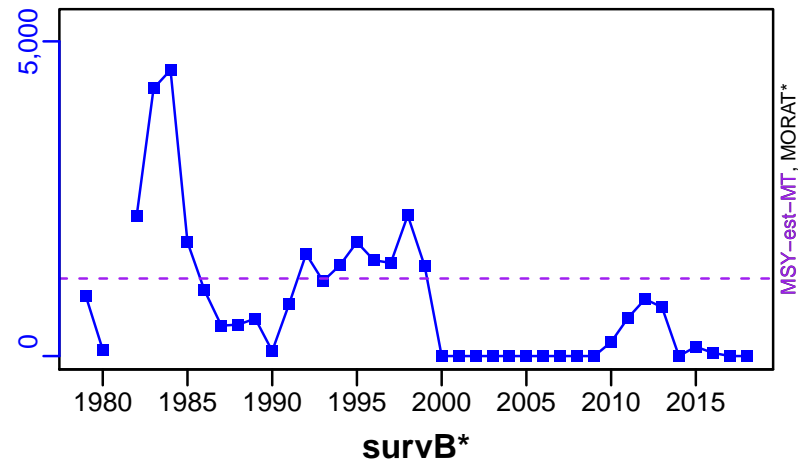


Recruits*



Blue king crab Saint Matthews Island [BKINGCRABSMI]

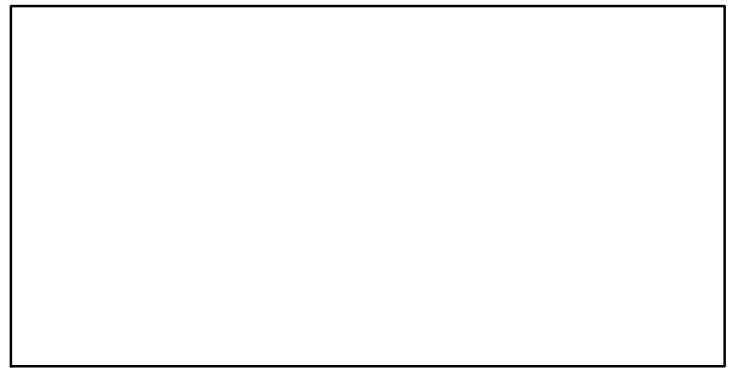
TC-MT, TL*, RecC* (1978-2018-SISIMP2021)



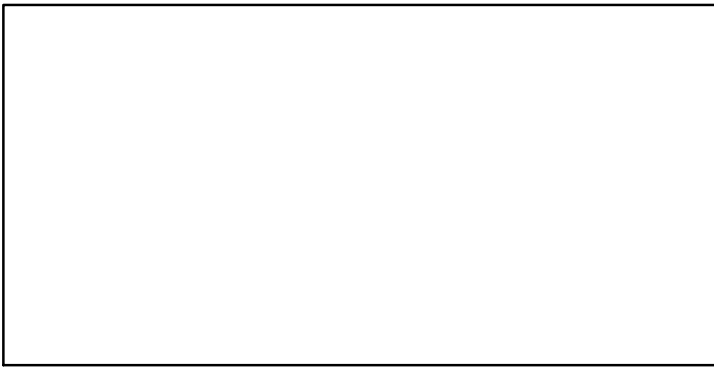
TAC*, Cpair*, Cadv*



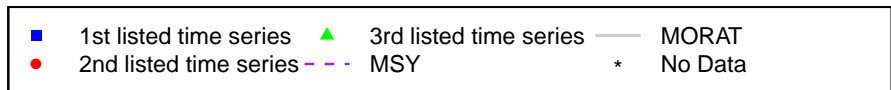
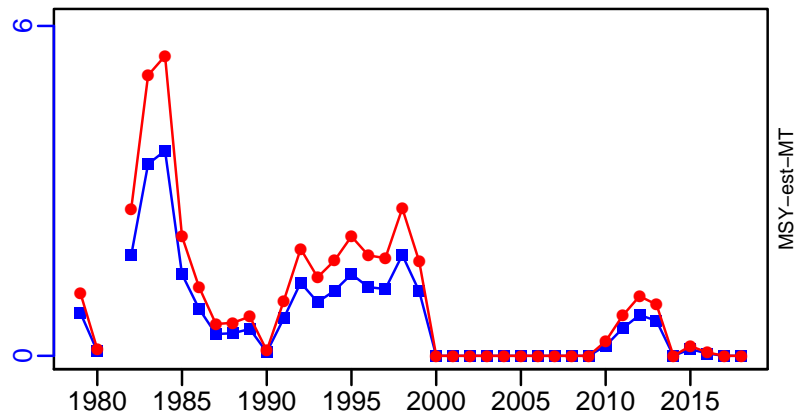
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2018-SISIMP2021)



Dover sole Gulf of Alaska [DSOLEGA]

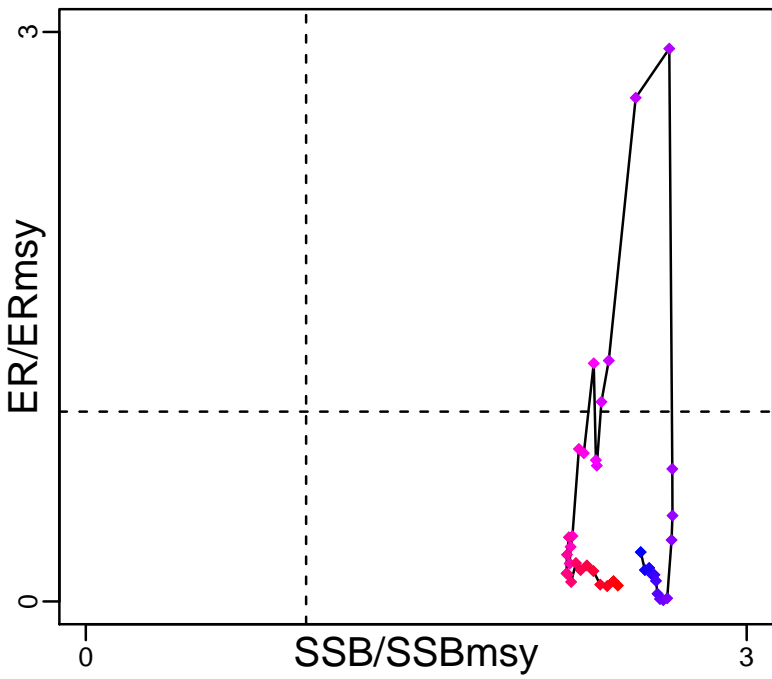
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	AFSC-DSOLEGA-1978-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	20,255
Fmsy	Fmsy-pr-1/yr	2009	0.149
ERmsy	ERmsy-est-ratio	2016	0.023
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1263
M	M-1/yr	2009	0.085
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.12
ERlim	-	-	-

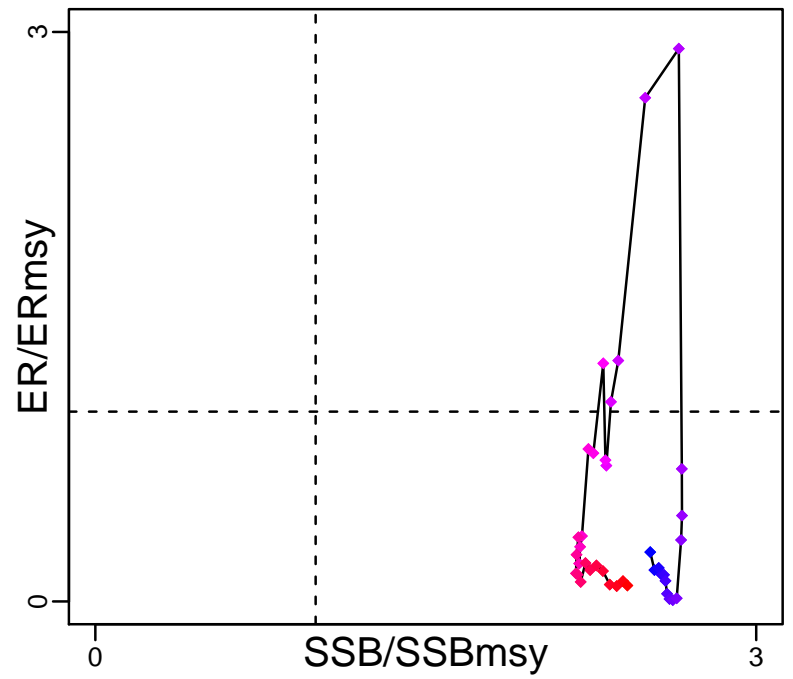
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	141,000	-	0+
SSB	SSB-MT	2016	49,180	-	-
TN	-	-	-	-	-
R	R-E00	2016	19,451,520	-	0
F	F-1/yr	2016	0.002	-	-
ER	ER-calc-ratio	2016	0.002	-	-
TC	TC-MT	2017	253		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.428		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2009	0.048		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.084		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dover sole Gulf of Alaska [DSOLEGA]

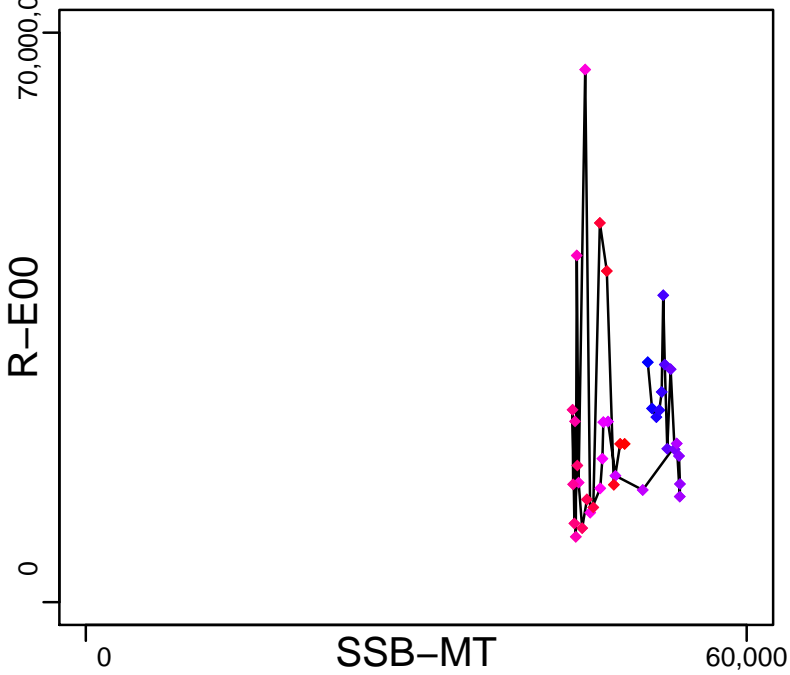
Kobe MSY_{pref} (1978–2016–SISIMP2021)



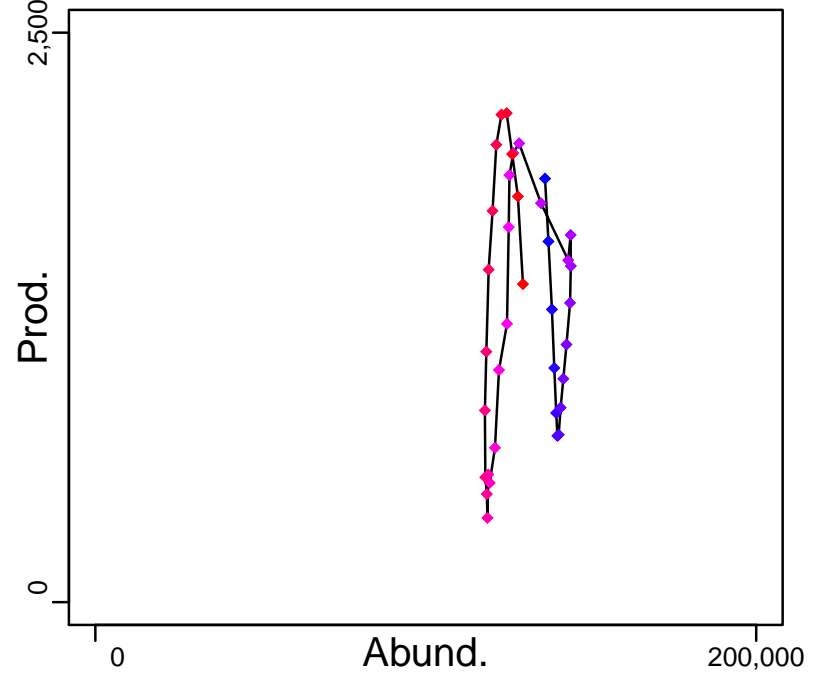
Kobe MGT_{pref} (1978–2016–SISIMP2021)



Spawner Recruit (1978–2016–SISIMP2021)



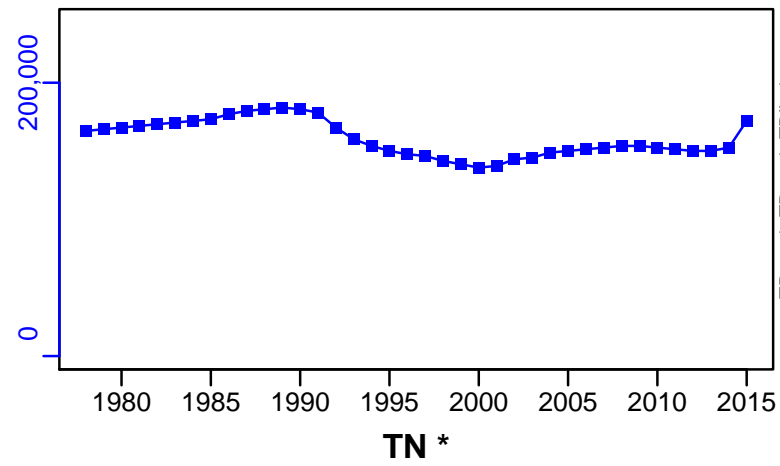
Production (1978–2016–SISIMP2021)



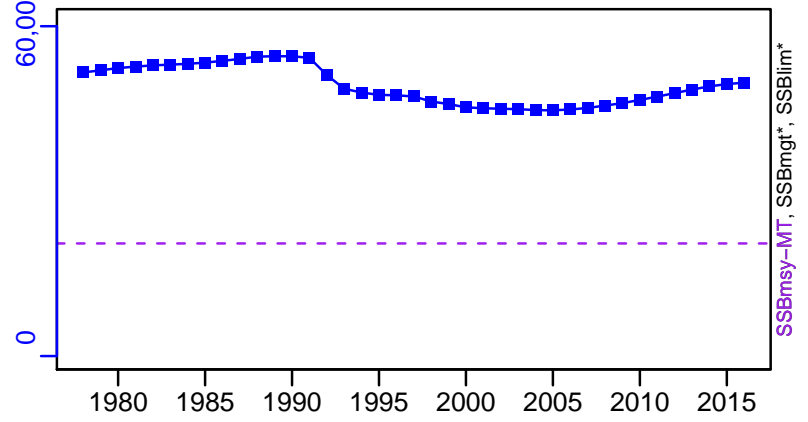
◆ Start Year ◆ End Year * No Data

Dover sole Gulf of Alaska [DSOLEGA]

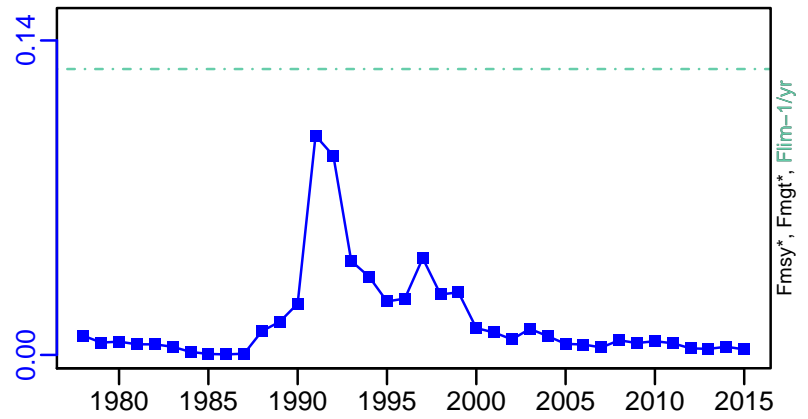
TB-MT (1978–2015–SISIMP2016)



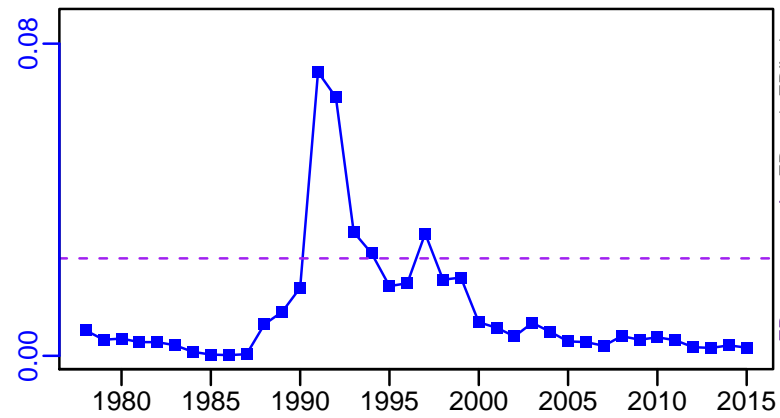
SSB-MT (1978–2016–SISIMP2021)



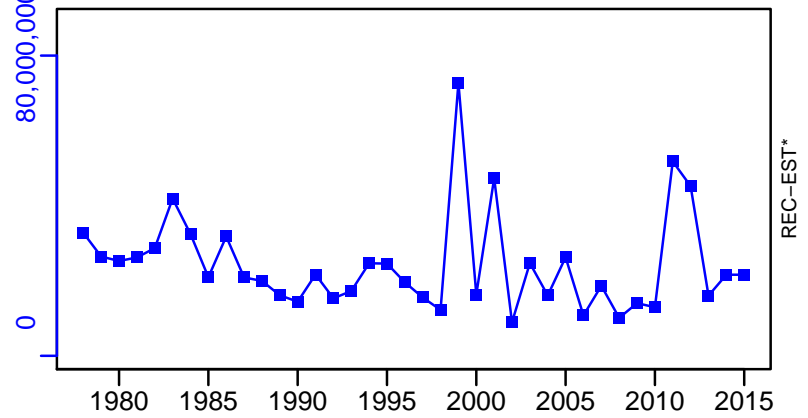
F-1/yr (1978–2016–SISIMP2021)



ER-calc-ratio (1978–2016–SISIMP2021)



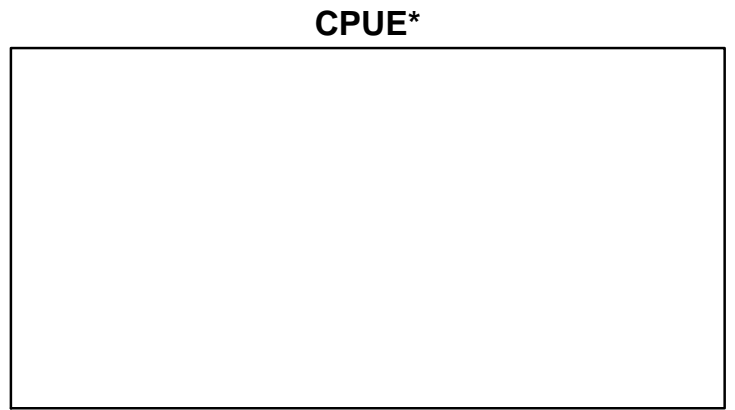
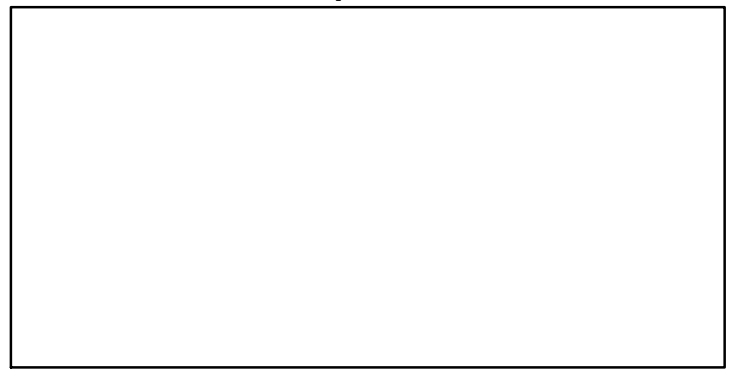
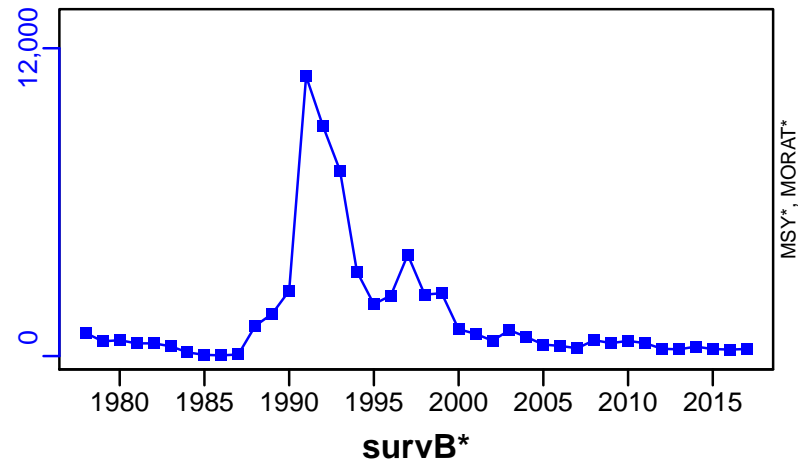
R-E00 (1978–2016–SISIMP2021)



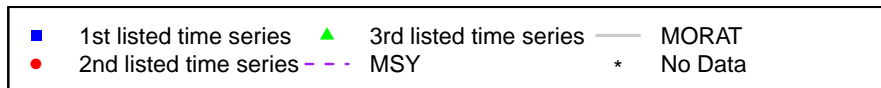
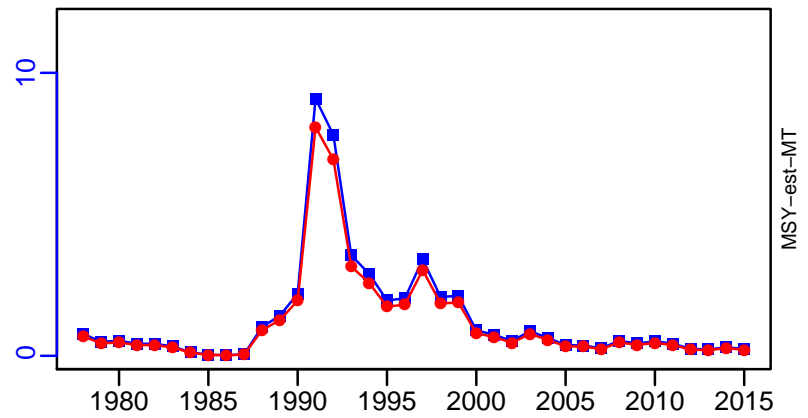
Dover sole Gulf of Alaska [DSOLEGA]

TC-MT, TL*, RecC* (1978-2017-SISIMP2021)

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2016-SISIMP2021)



Dusky rockfish Gulf of Alaska [DUSROCKGA]

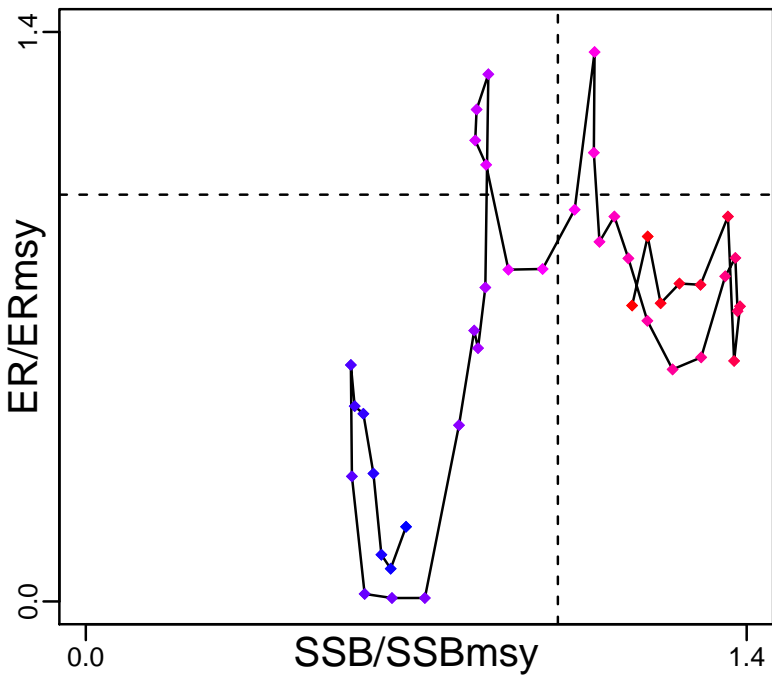
Metadata	
Scientific Name	Sebastes variabilis
Current Assess ID	AFSC-DUSROCKGA-1973-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	18,535
Fmsy	Fmsy-1/yr	2010	0.087
ERmsy	ERmsy-est-ratio	2018	0.053
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	3116
M	M-1/yr	2010	0.07
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.122
ERlim	-	-	-

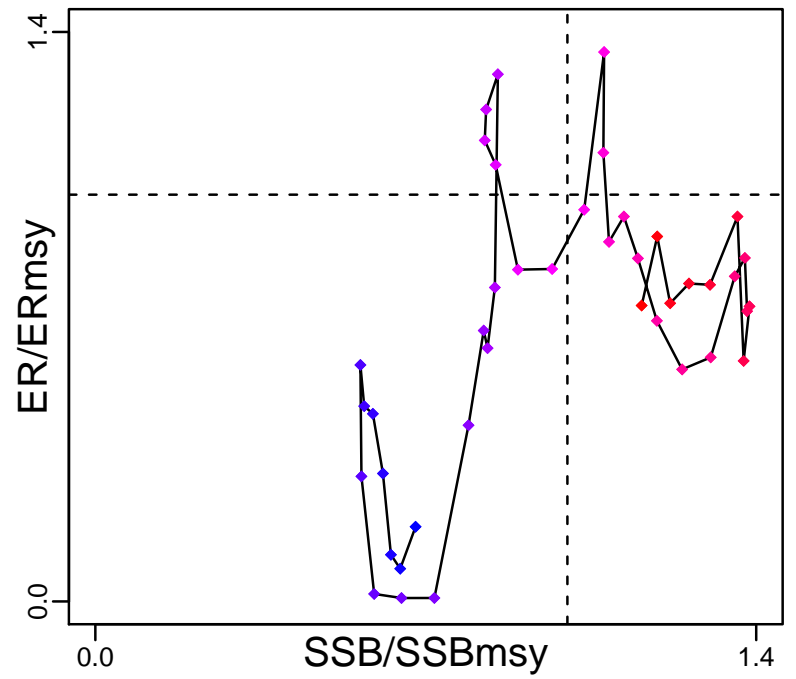
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	63,100	-	4+
SSB	SSB-MT	2018	21,203	-	-
TN	-	-	-	-	-
R	R-E00	2018	2,435,860	-	4
F	F-1/yr	2018	0.065	-	-
ER	ER-calc-ratio	2018	0.039	-	-
TC	TC-MT	2018	2623		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.144		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.546		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.727		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dusky rockfish Gulf of Alaska [DUSROCKGA]

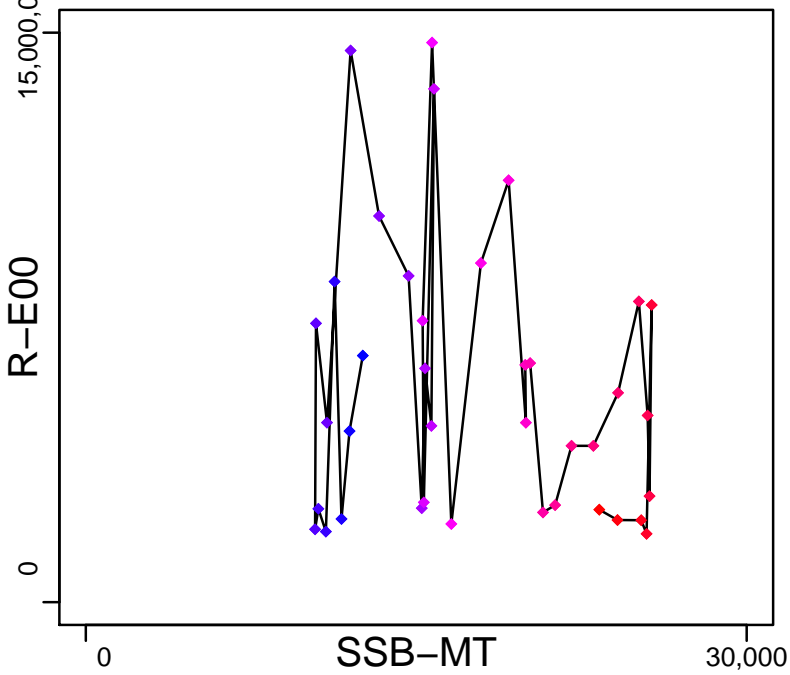
Kobe MSYpref (1973–2018–SISIMP2021)



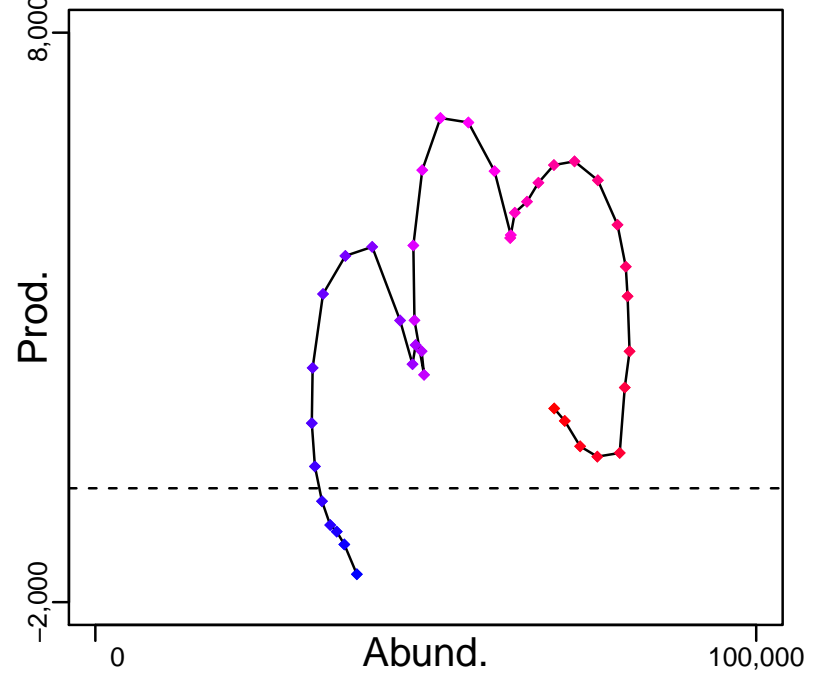
Kobe MGTpref (1973–2018–SISIMP2021)



Spawner Recruit (1973–2018–SISIMP2021)



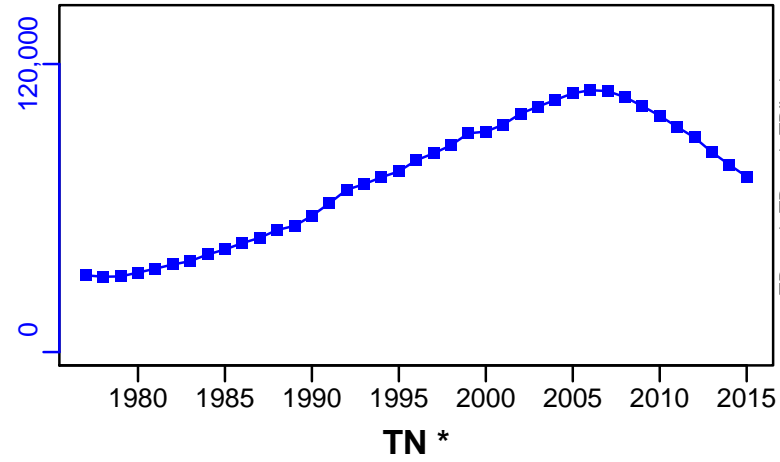
Production (1973–2018–SISIMP2021)



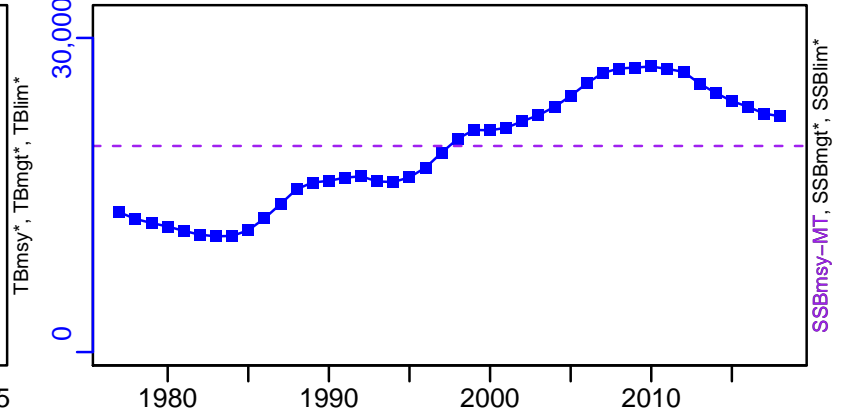
◆ Start Year ◆ End Year * No Data

Dusky rockfish Gulf of Alaska [DUSROCKGA]

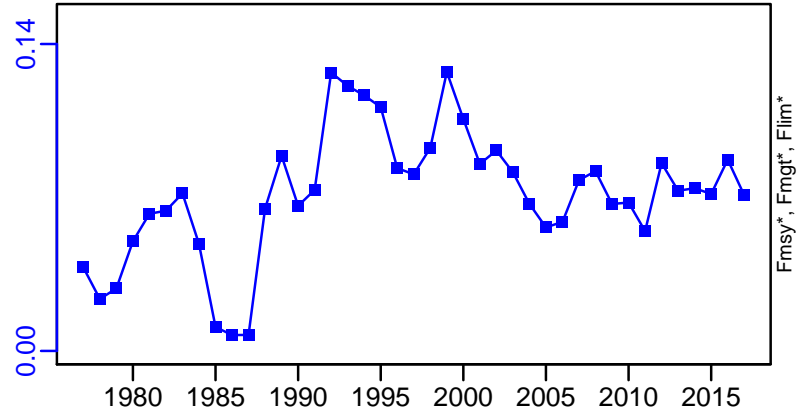
TB-MT (1977–2015–SISIMP2016)



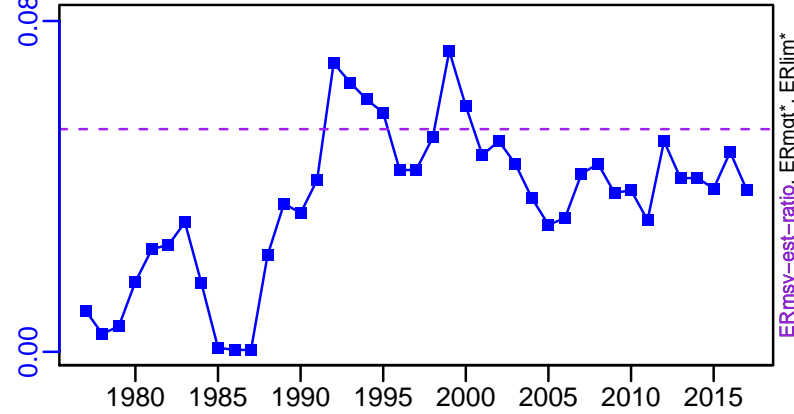
SSB-MT (1973–2018–SISIMP2021)



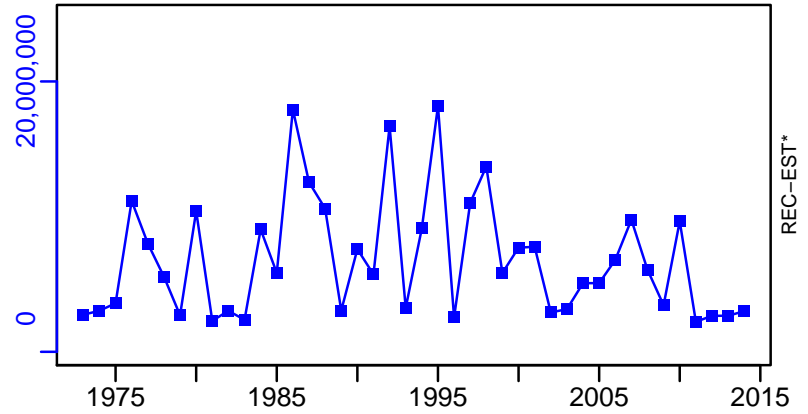
F-1/yr (1973–2018–SISIMP2021)



ER-calc-ratio (1973–2018–SISIMP2021)

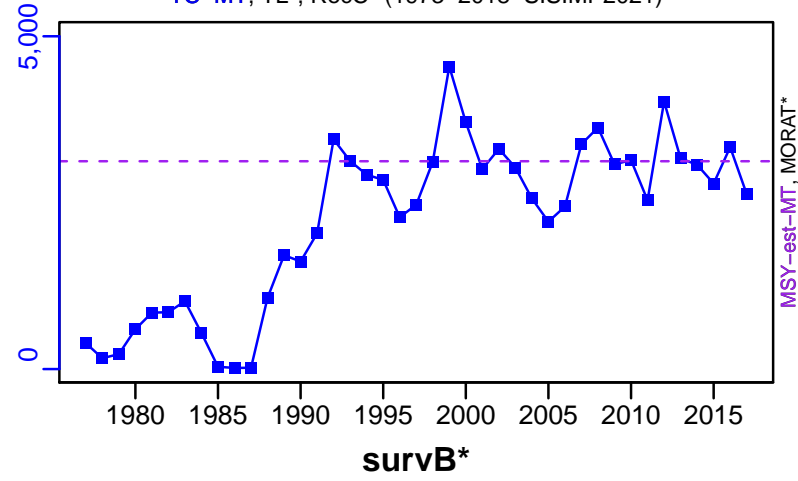


R-E00 (1973–2018–SISIMP2021)



Dusky rockfish Gulf of Alaska [DUSROCKGA]

TC-MT, TL*, RecC* (1973–2018–SISIMP2021)



TAC*, Cpair*, Cadv*



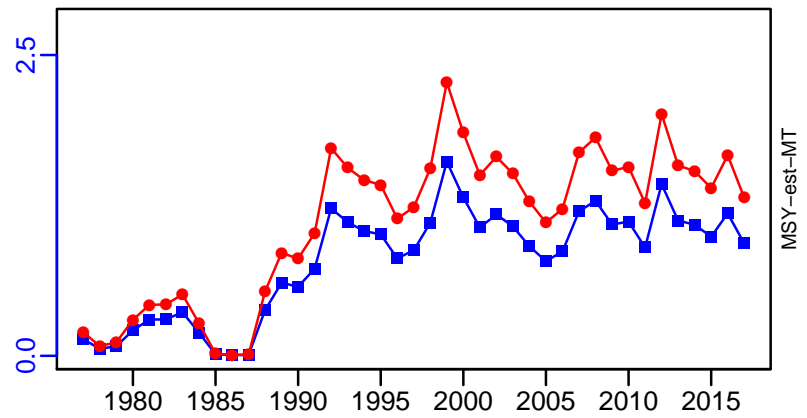
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1973–2018–SISIMP2021)



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

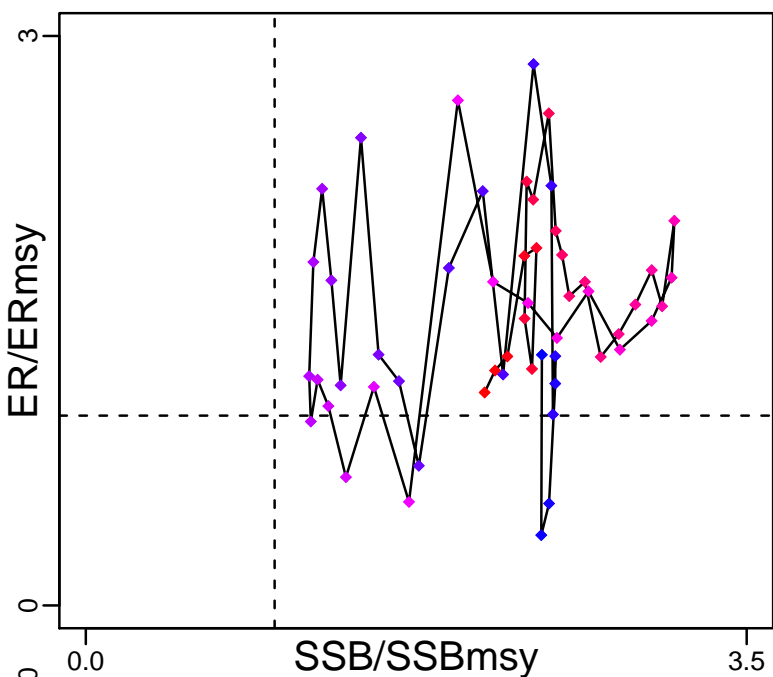
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEBSAI-1961-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2018, 2010, 2016, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	74,221
Fmsy	Fmsy-pr-1/yr	2010	0.342
ERmsy	ERmsy-est-ratio	2018	0.014
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2010	336,027
MSY	MSY-MT	2010	83,321
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.432
ERlim	-	-	-

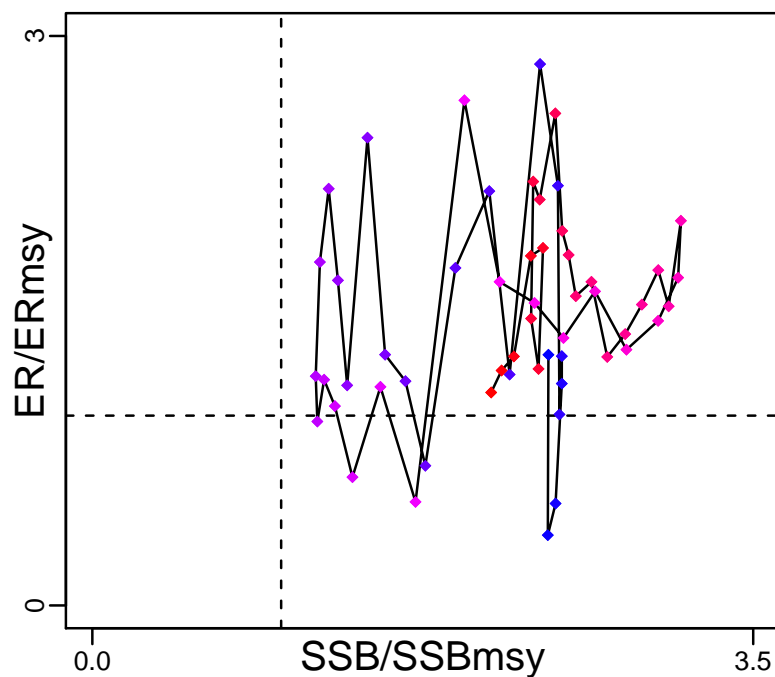
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	738,000	-	3+
SSB	SSB-MT	2018	154,356	-	-
TN	-	-	-	-	-
R	R-E00	2018	970,941,000	-	3
F	F-1/yr	2018	0.049	-	-
ER	ER-calc-ratio	2018	0.016	-	-
TC	TC-MT	2018	9149		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.08		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.166		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	1.122		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

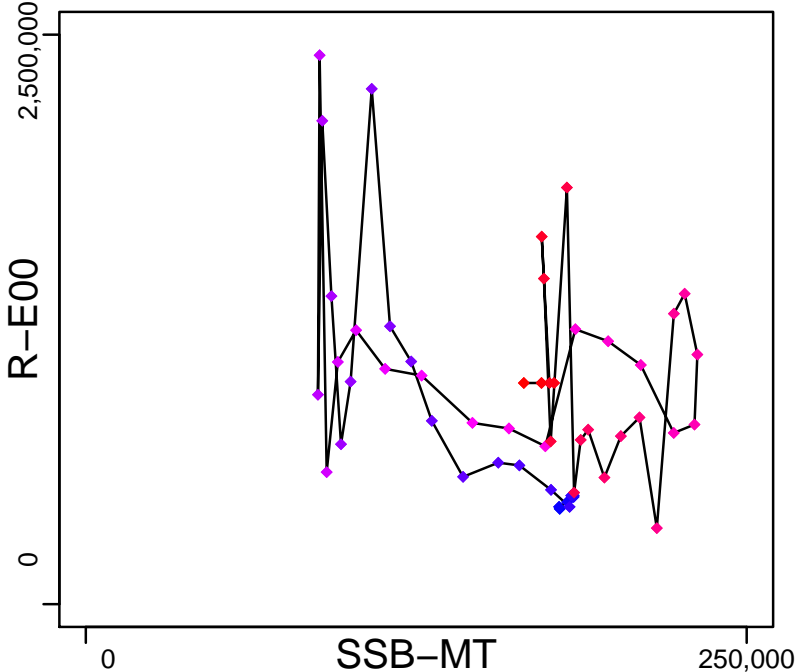
Kobe MSYpref (1961–2018–SISIMP2021)



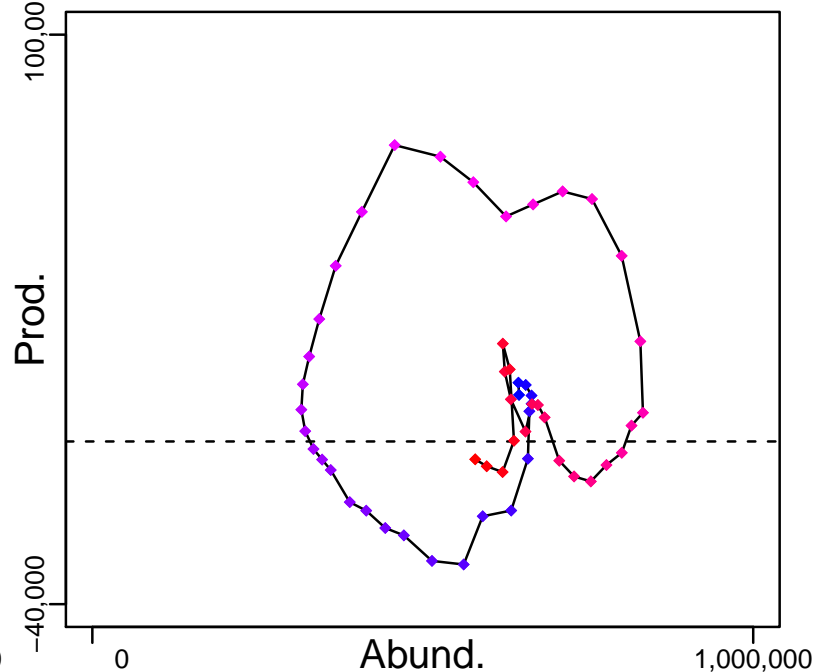
Kobe MGTpref (1961–2018–SISIMP2021)



Spawner Recruit (1961–2018–SISIMP2021)



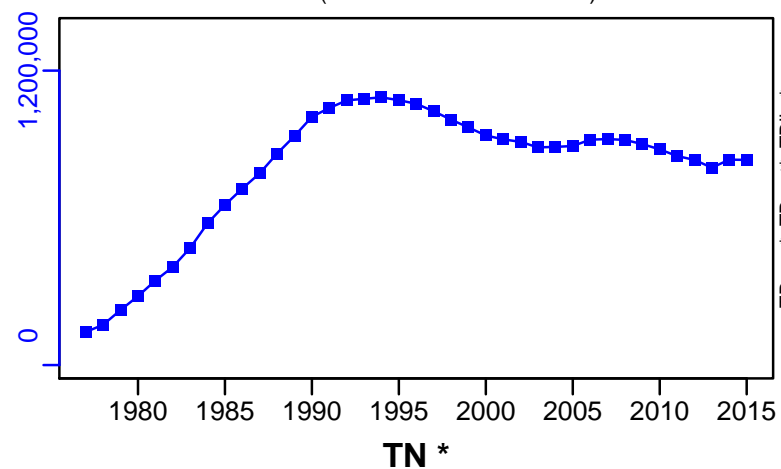
Production (1961–2018–SISIMP2021)



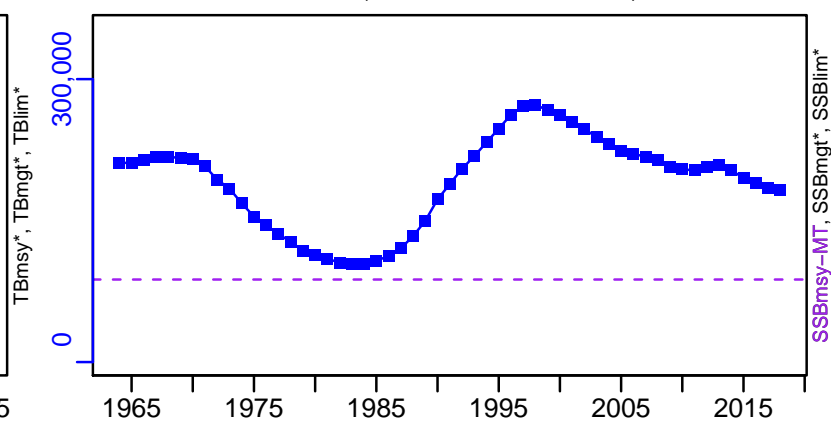
◆ Start Year ◆ End Year * No Data

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

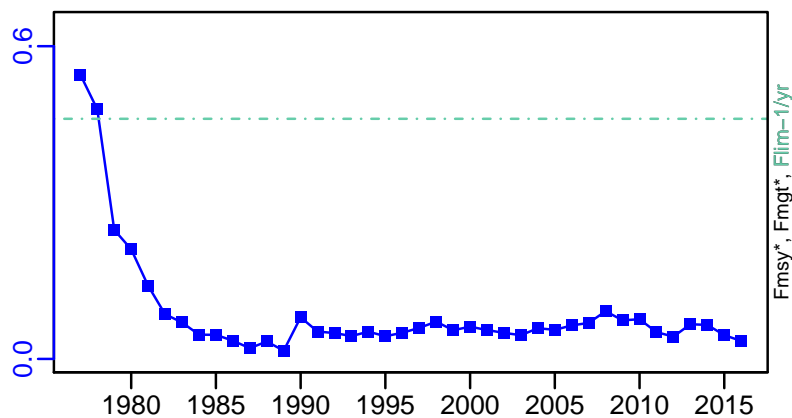
TB-MT (1977–2015–SISIMP2016)



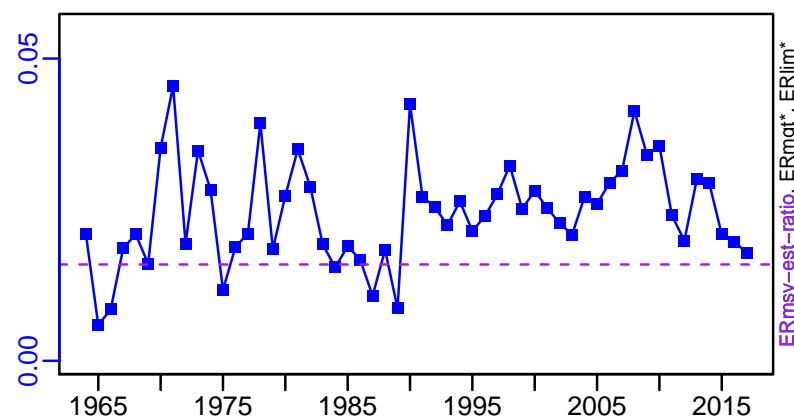
SSB-MT (1961–2018–SISIMP2021)



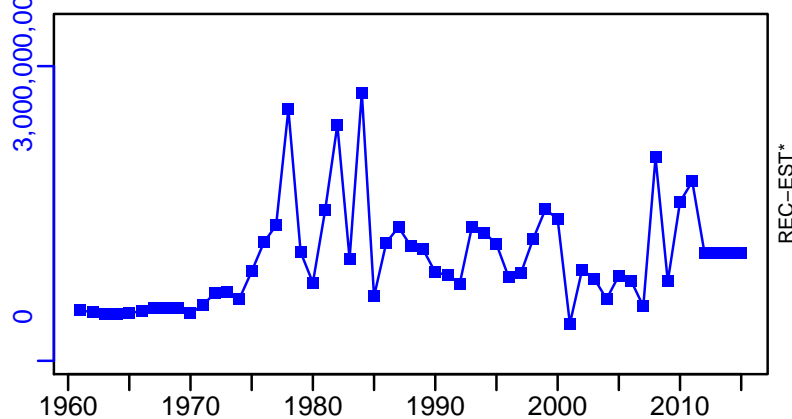
F-1/yr (1974–2016–SISIMP2021)



ER-calc-ratio (1961–2018–SISIMP2021)

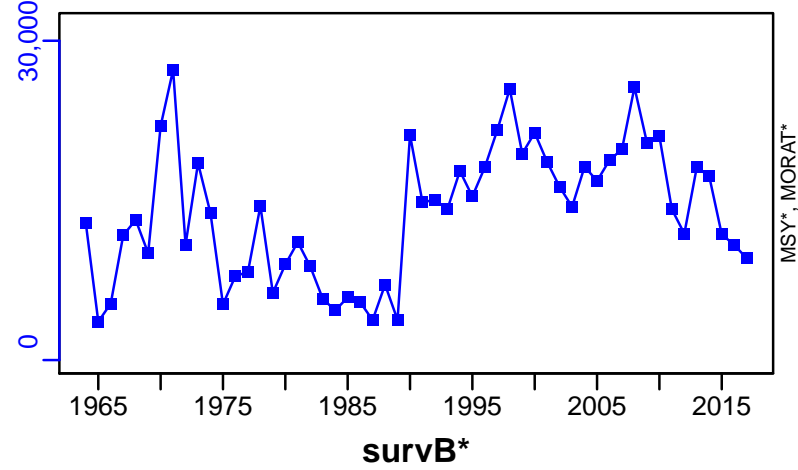


R-E00 (1961–2018–SISIMP2021)



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

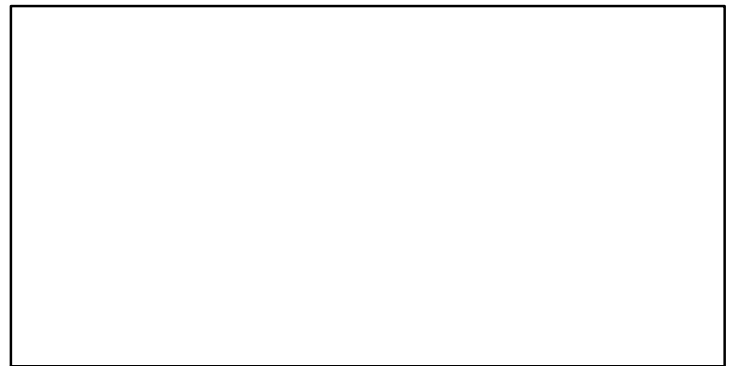
TC-MT, TL*, RecC* (1961–2018–SISIMP2021)



TAC*, Cpair*, Cadv*



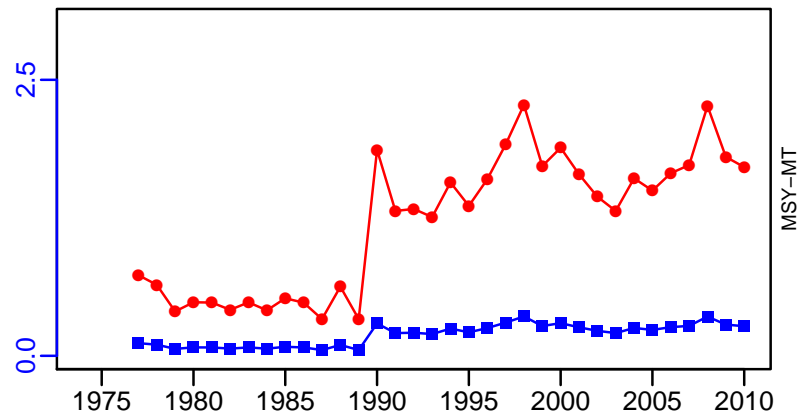
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1974–2010–STACHURA)



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

Flathead sole Gulf of Alaska [FLSOLEGA]

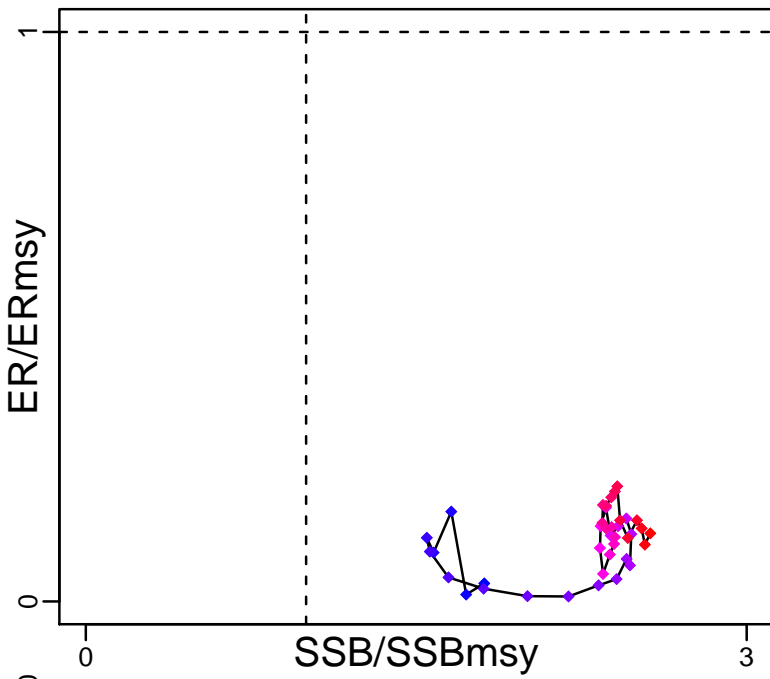
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEGA-1978-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	32,043
Fmsy	Fmsy-pr-1/yr	2010	0.481
ERmsy	ERmsy-est-ratio	2017	0.073
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2017	7902
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2017	0.4
ERlim	-	-	-

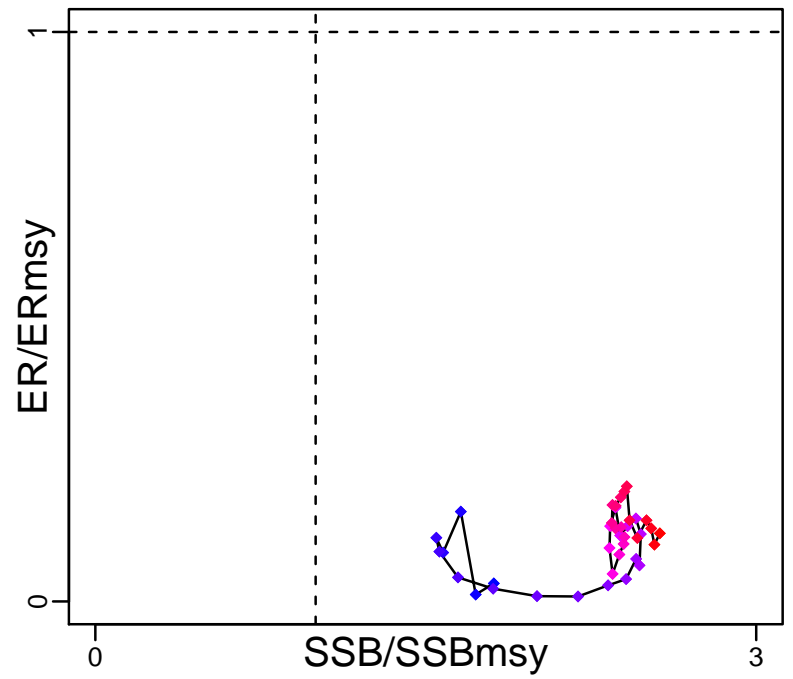
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	258,000	-	3+
SSB	SSB-MT	2017	83,296	-	-
TN	-	-	-	-	-
R	R-E00	2017	370,248,000	-	0
F	F-1/yr	2017	0.011	-	-
ER	ER-calc-ratio	2017	0.009	-	-
TC	TC-MT	2017	2421		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.6		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.036		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2017	0.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Gulf of Alaska [FLSOLEGA]

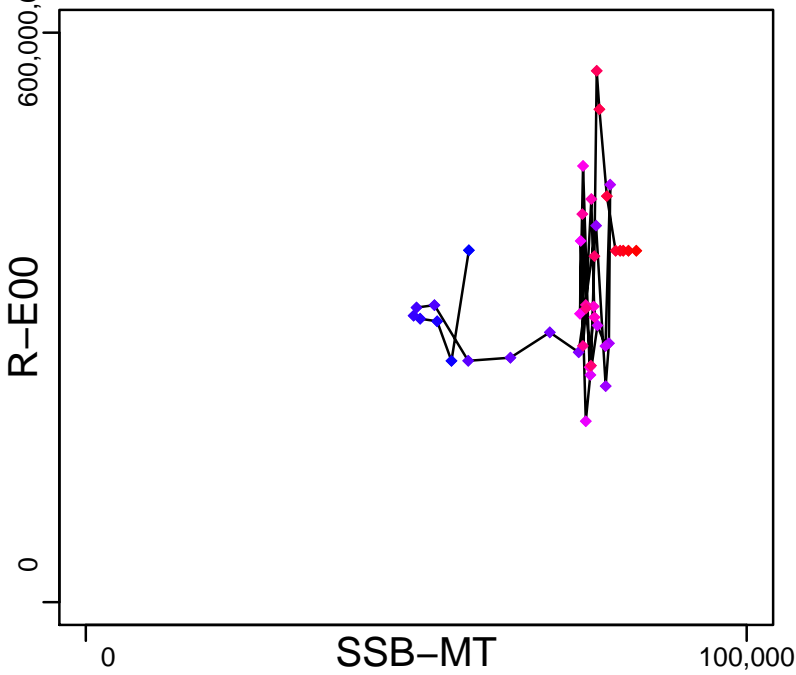
Kobe MSY_{pref} (1978–2017–SISIMP2021)



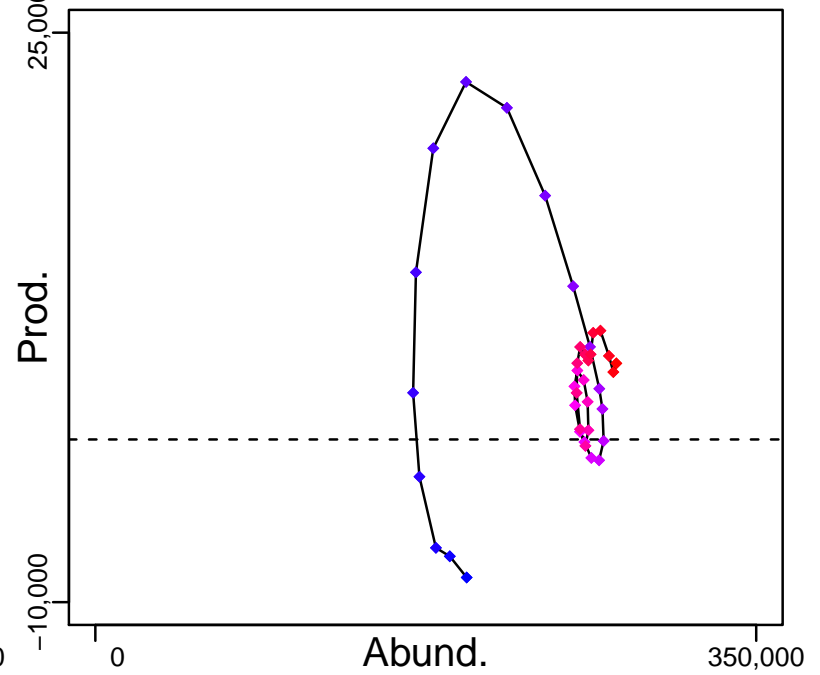
Kobe MGT_{pref} (1978–2017–SISIMP2021)



Spawner Recruit (1978–2017–SISIMP2021)



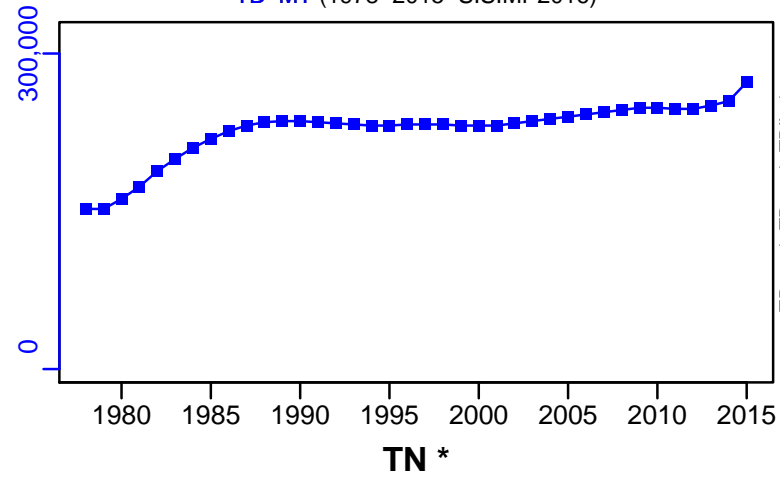
Production (1978–2017–SISIMP2021)



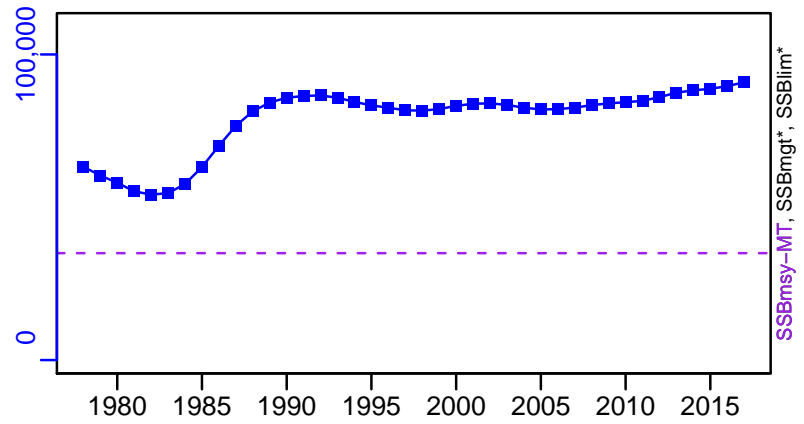
◆ Start Year ◆ End Year * No Data

Flathead sole Gulf of Alaska [FLSOLEGA]

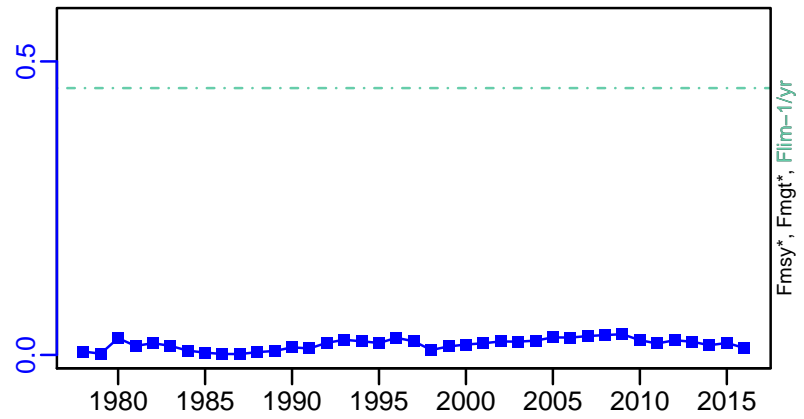
TB-MT (1978–2015–SISIMP2016)



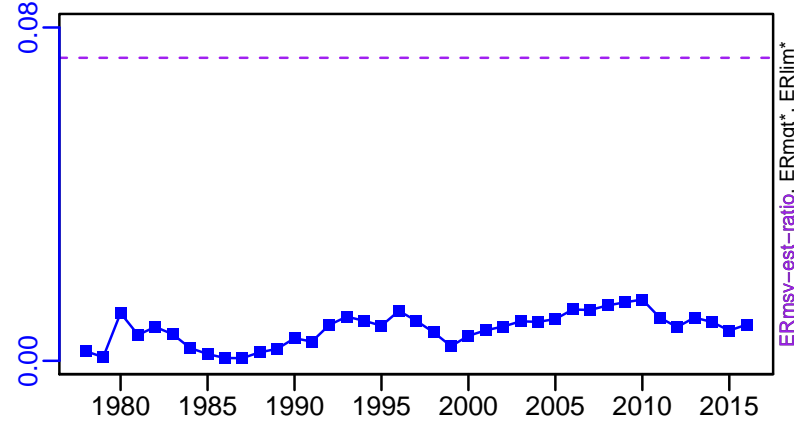
SSB-MT (1978–2017–SISIMP2021)



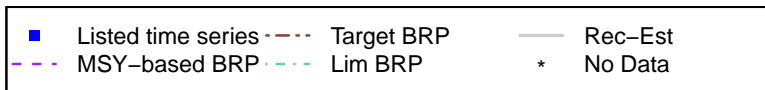
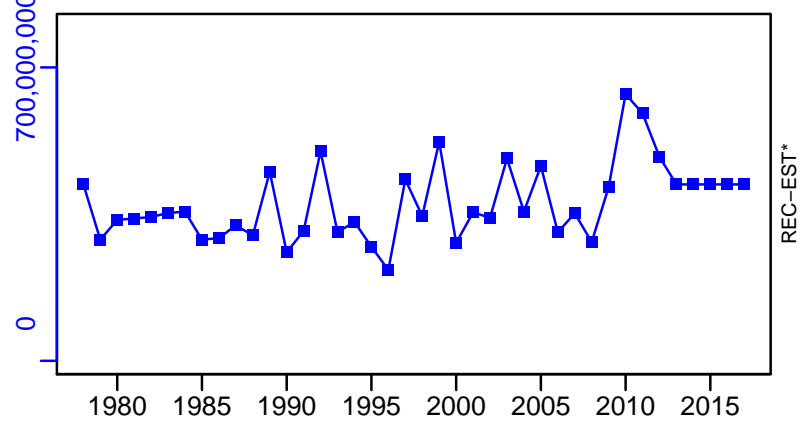
F-1/yr (1978–2017–SISIMP2021)



ER-calc-ratio (1978–2017–SISIMP2021)

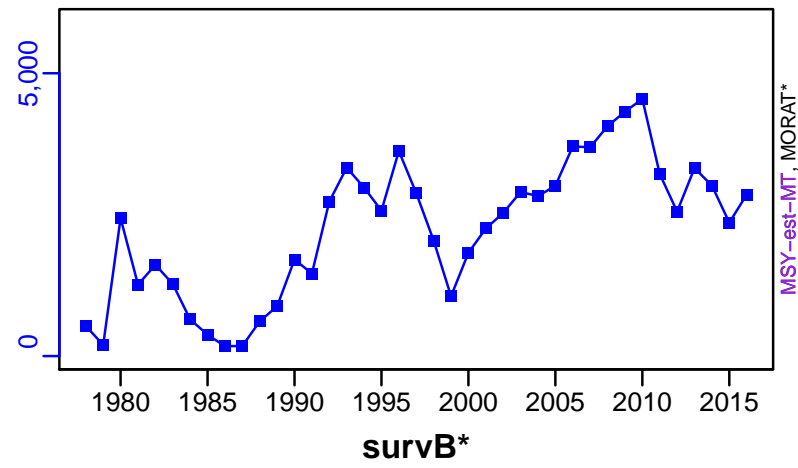


R-E00 (1978–2017–SISIMP2021)



Flathead sole Gulf of Alaska [FLSOLEGA]

TC-MT, TL*, RecC* (1978-2017-SISIMP2021)



TAC*, Cpair*, Cadv*



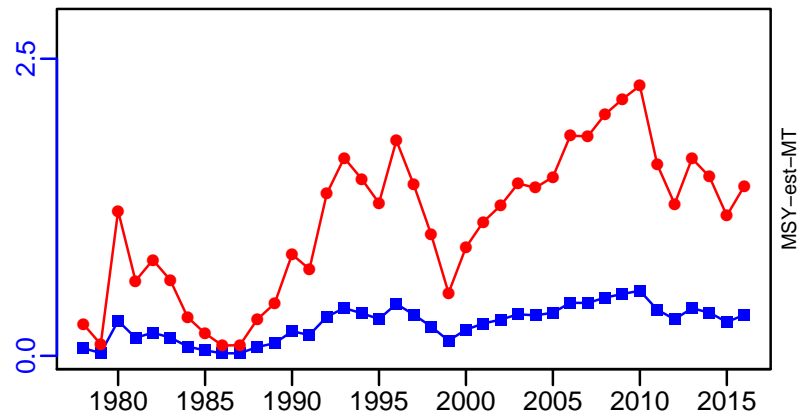
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2017-SISIMP2021)



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

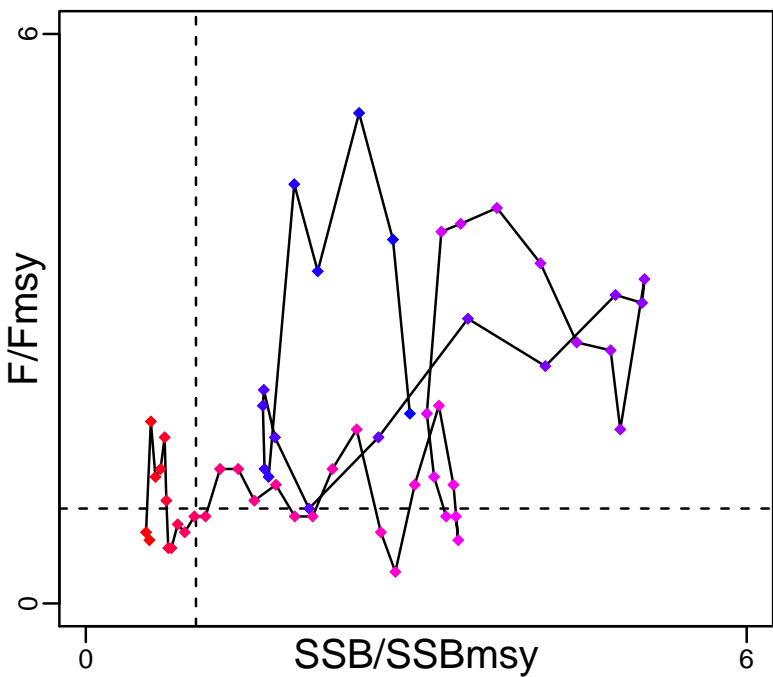
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	AFSC-GHALBSAI-1945-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	31,687
Fmsy	Fmsy-pr-1/yr	2015	0.12
ERmsy	ERmsy-est-ratio	2015	0.022
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	2666
M	M-1/yr	2015	0.11
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2017	0.29
ERlim	-	-	-

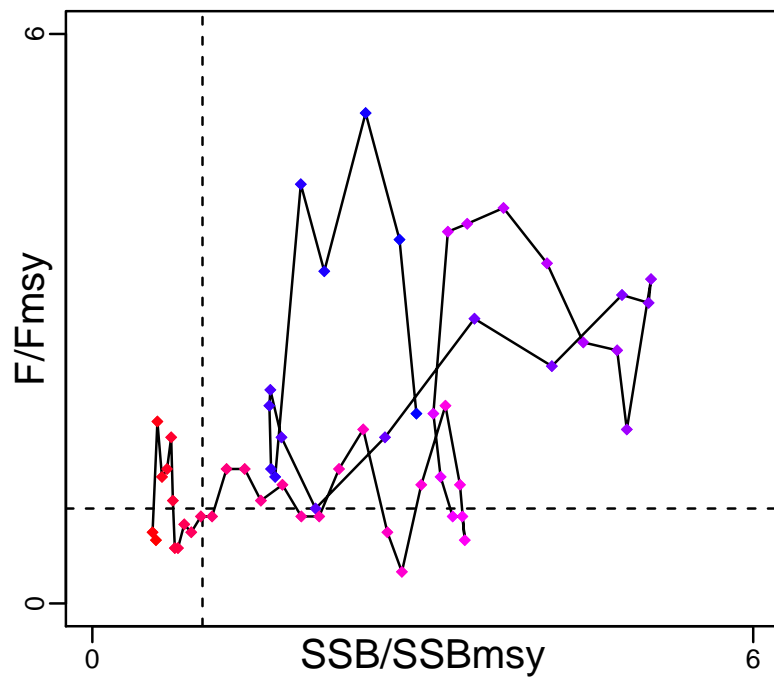
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	122,000	-	1+
SSB	SSB-MT	2018	50,465	-	-
TN	-	-	-	-	-
R	R-E00	2018	6,040,920	-	0
F	F-1/yr	2018	0.058	-	-
ER	ER-calc-ratio	2018	0.024	-	-
TC	TC-MT	2018	2834		
TL	TL-MT	2015	1650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.593		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2015	0.667		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2015	0.924		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

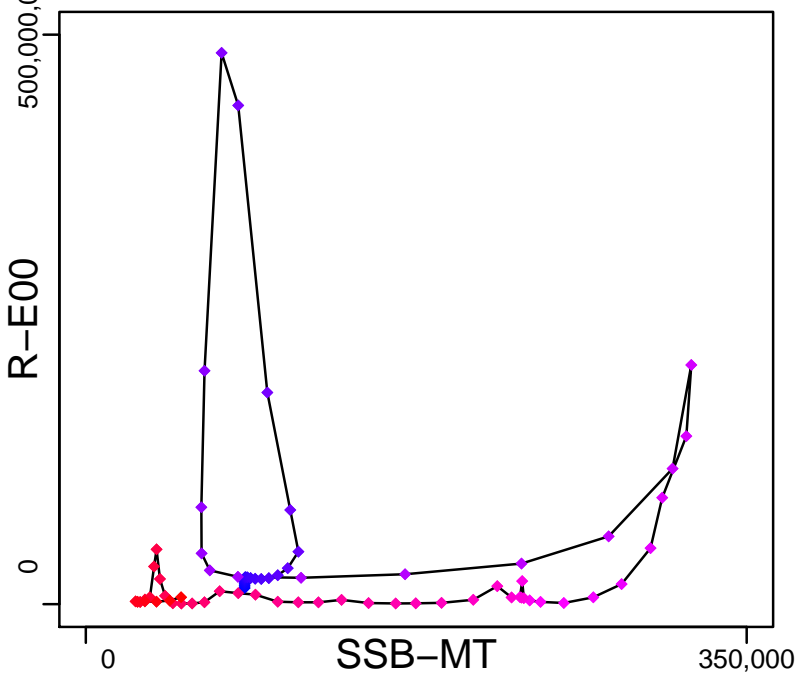
Kobe MSYpref (1960–2015–HIVELY)



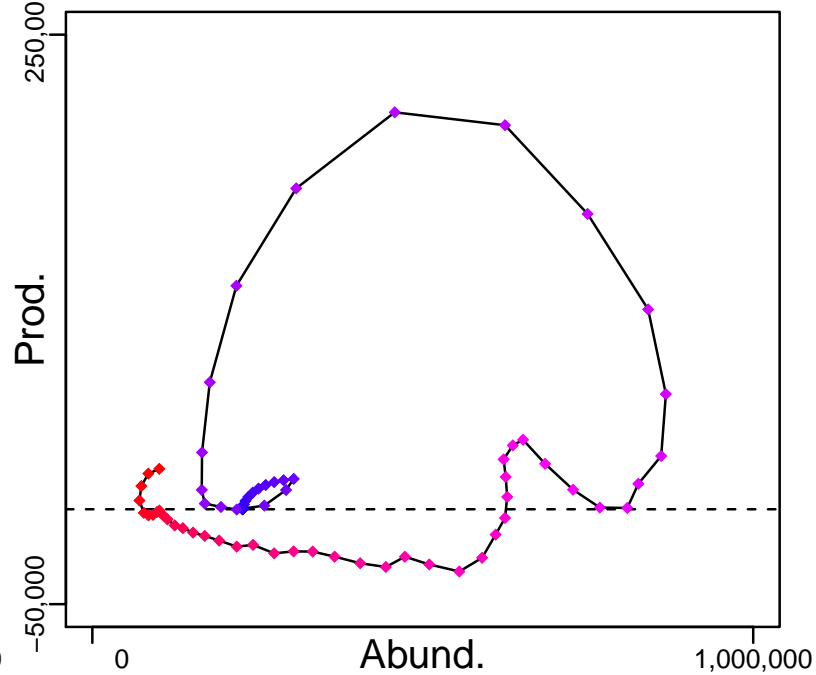
Kobe MGTpref (1960–2015–HIVELY)



Spawner Recruit (1945–2018–SISIMP2021)



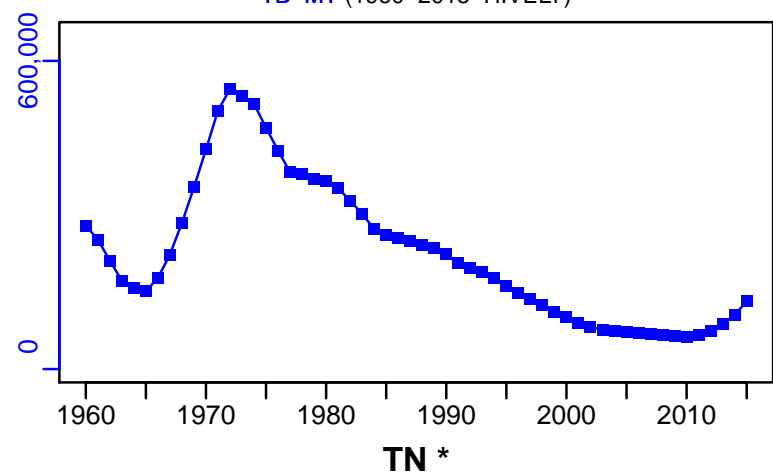
Production (1945–2018–SISIMP2021)



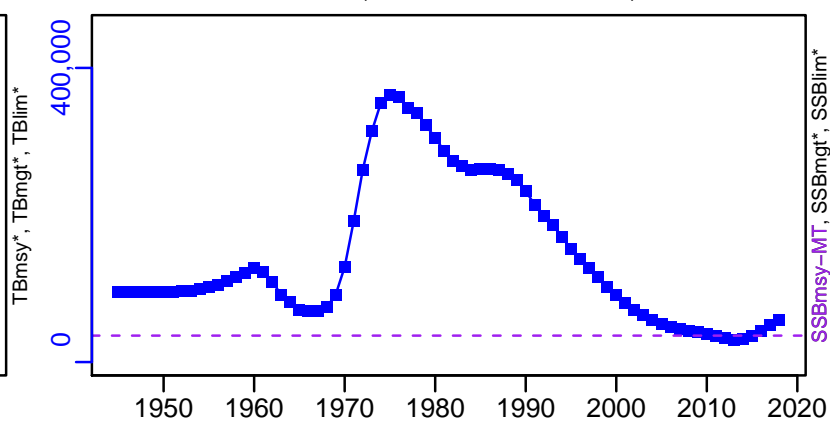
◆ Start Year ◆ End Year * No Data

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TB-MT (1960–2015–HIVELY)



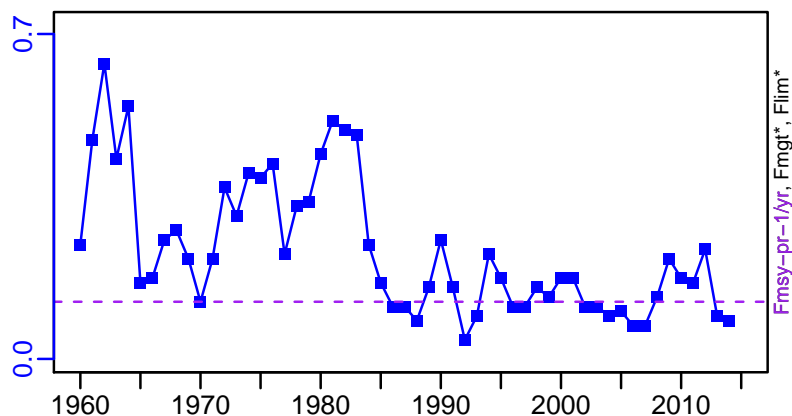
SSB-MT (1945–2018–SISIMP2021)



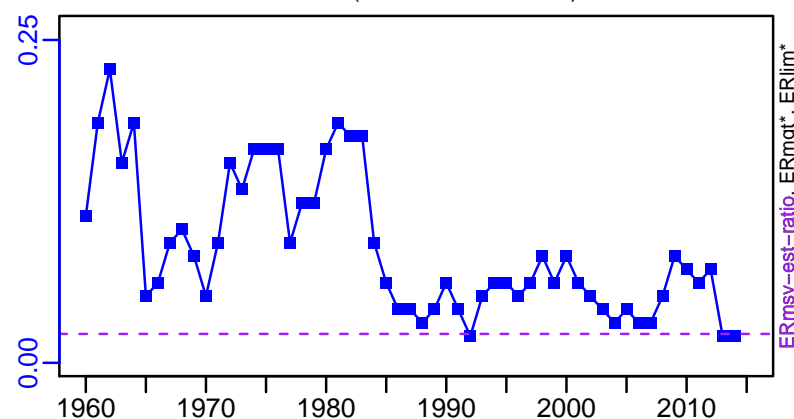
TN *



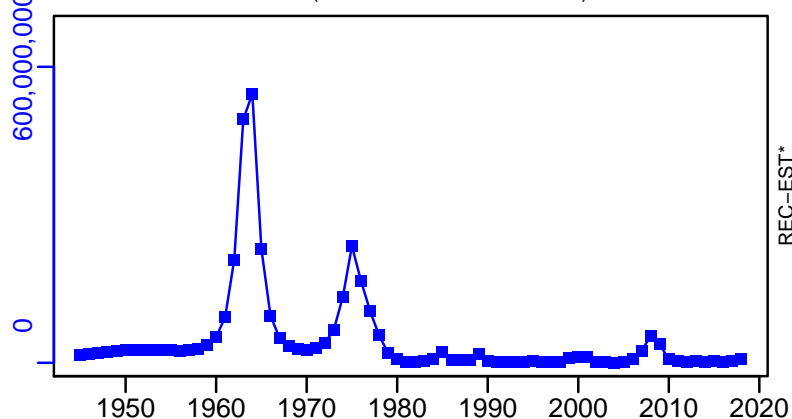
F-1/yr (1960–2015–HIVELY)



ER-ratio (1960–2015–HIVELY)



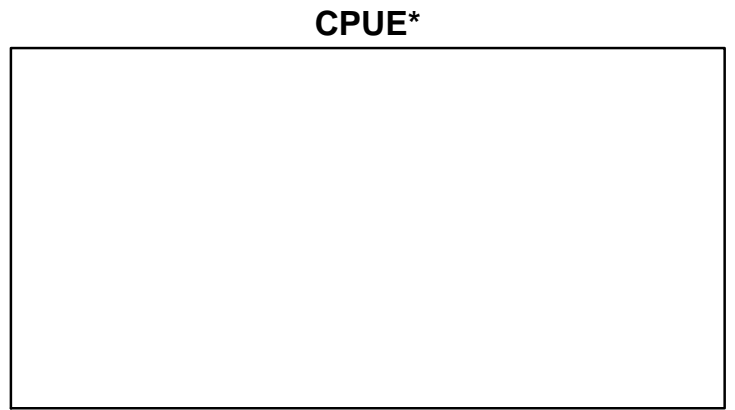
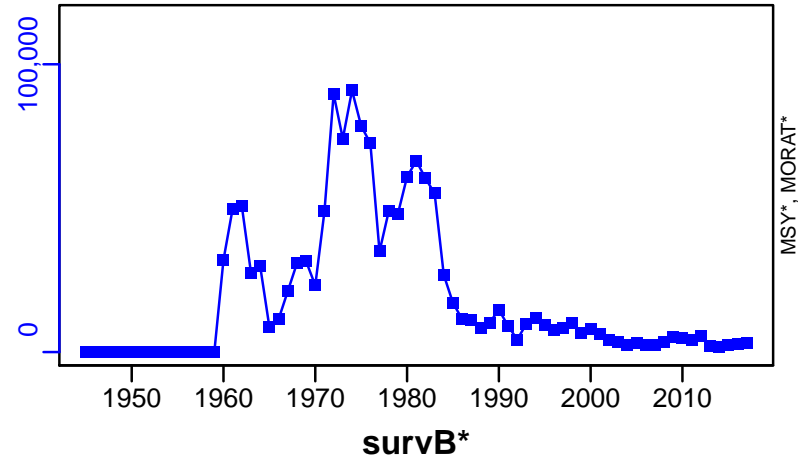
R-E00 (1945–2018–SISIMP2021)



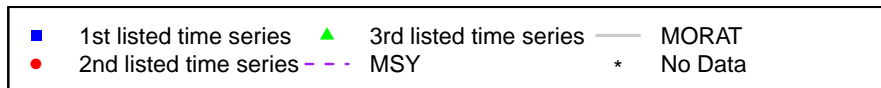
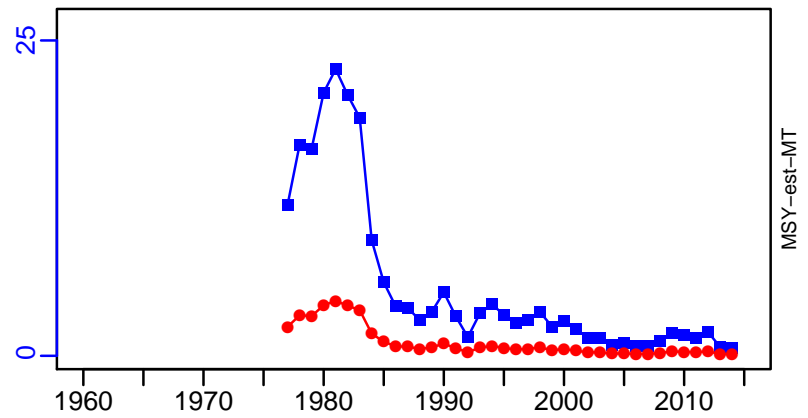
Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TC-MT, TL*, RecC* (1945-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1960-2015-HIVELY)



Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

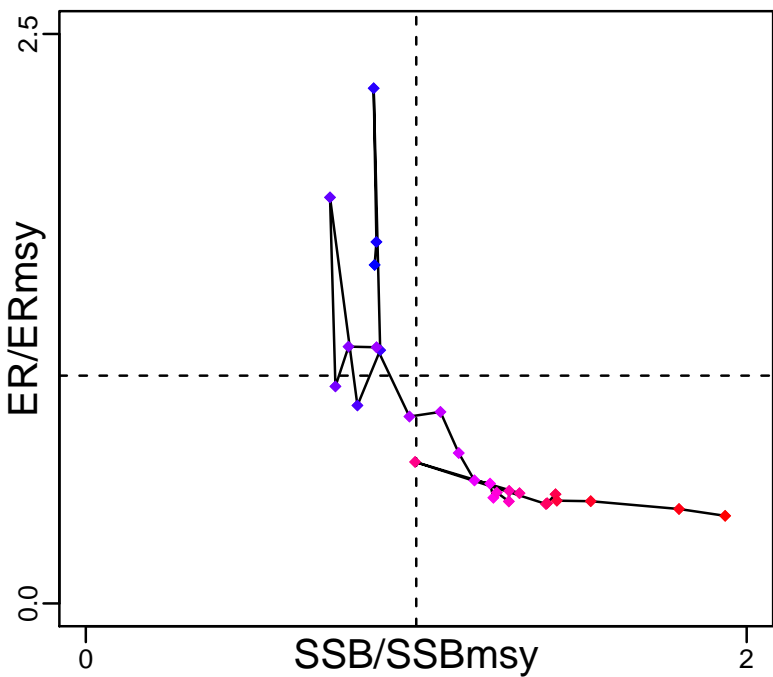
Metadata	
Scientific Name	Lithodes aequispinus
Current Assess ID	AFSC-GKCRABAIES-1985-2017-SISIMP2021
Area	Aleutian Islands Eastern segment
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	6954
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2017	0.336
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2017	2827
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

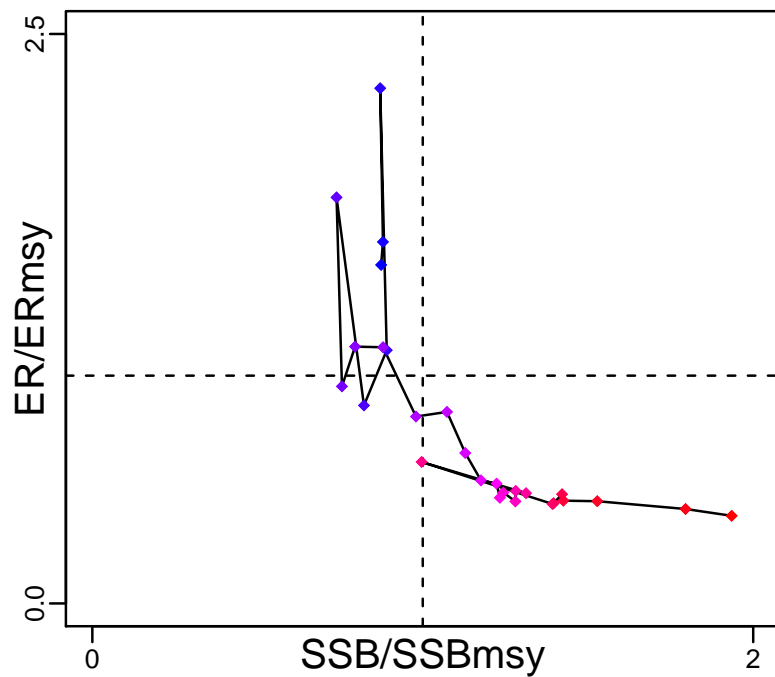
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	13,455	-	-
TN	-	-	-	-	-
R	R-E00	2017	4,700,000	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2017	0.129	-	-
TC	TC-MT	2017	2104		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.935		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2017	0.385		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

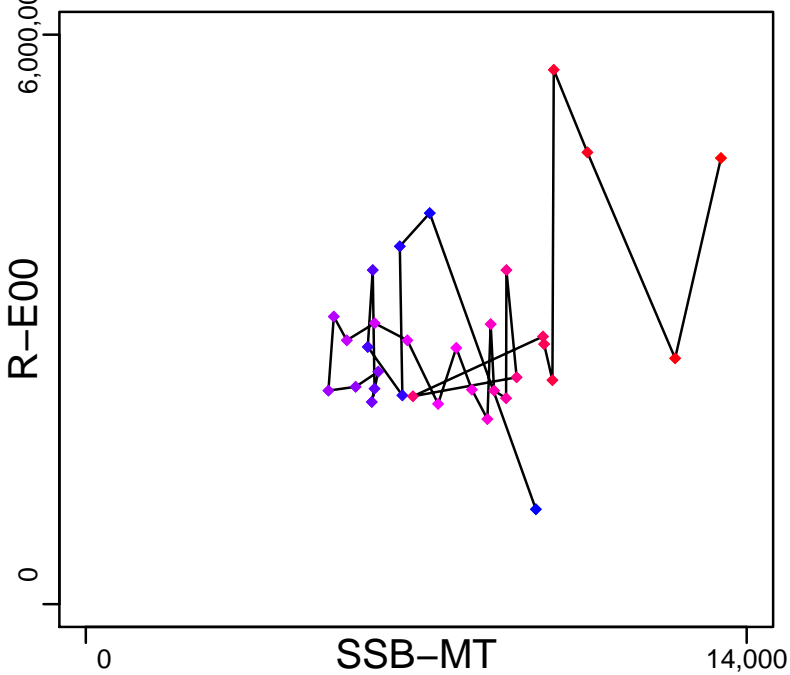
Kobe MSY_{pref} (1985–2017–SISIMP2021)



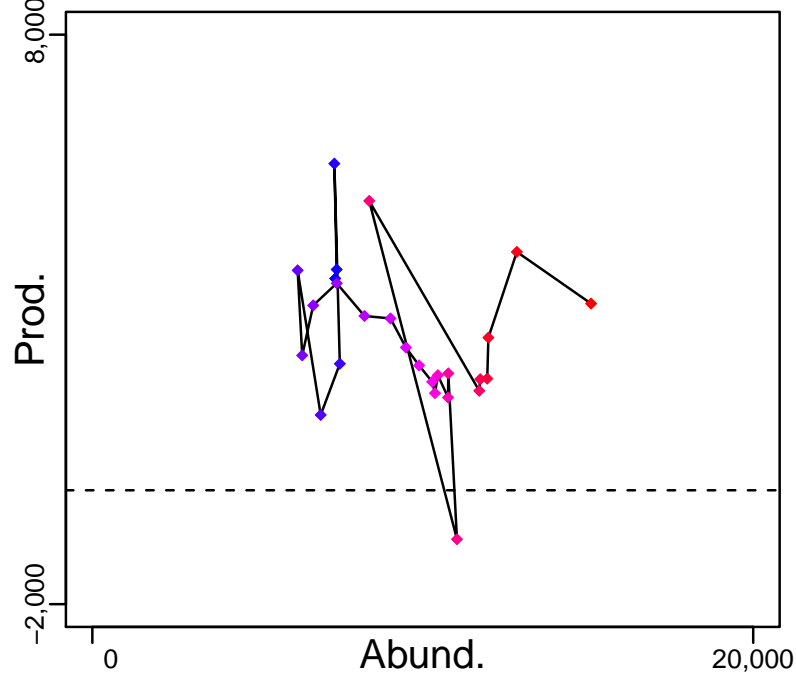
Kobe MGT_{pref} (1985–2017–SISIMP2021)



Spawner Recruit (1985–2017–SISIMP2021)



Production (1985–2017–SISIMP2021)



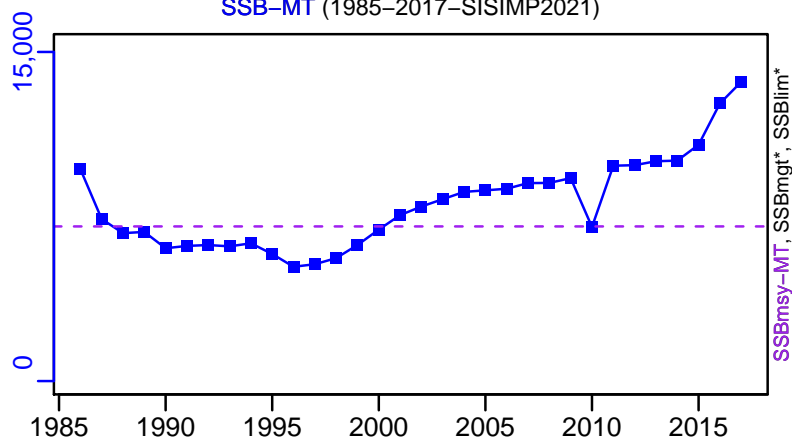
◆ Start Year ◆ End Year * No Data

Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

TB*



SSB-MT (1985-2017-SISIMP2021)



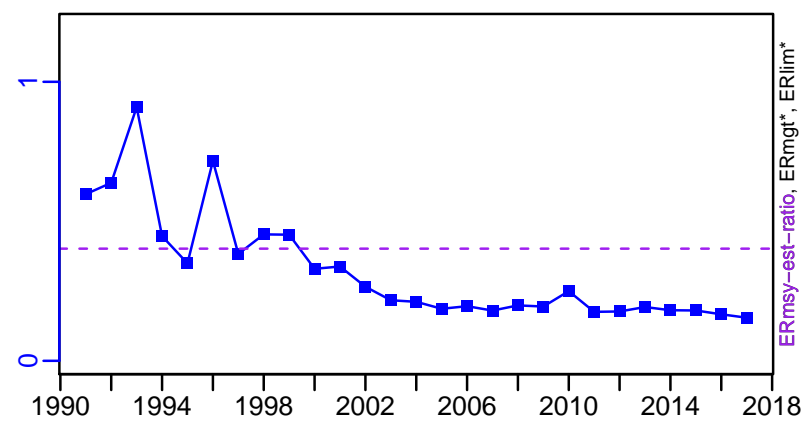
TN *



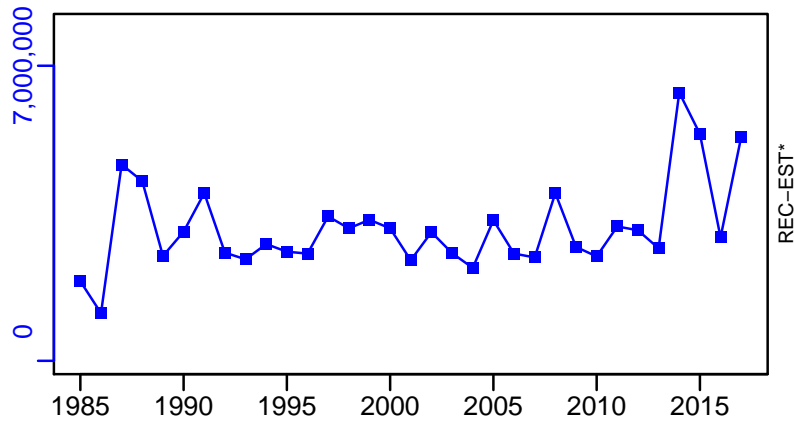
F*



ER-calc-ratio (1985-2017-SISIMP2021)



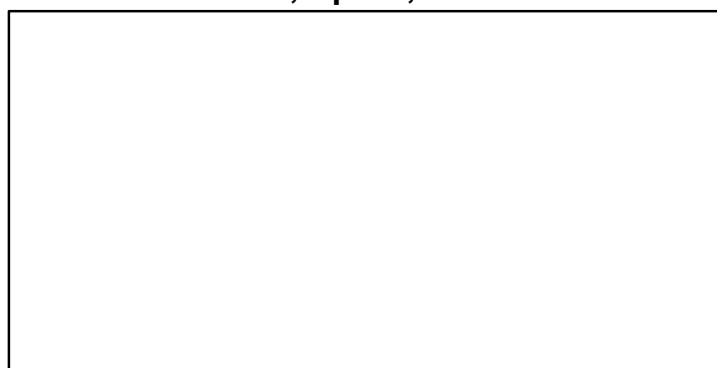
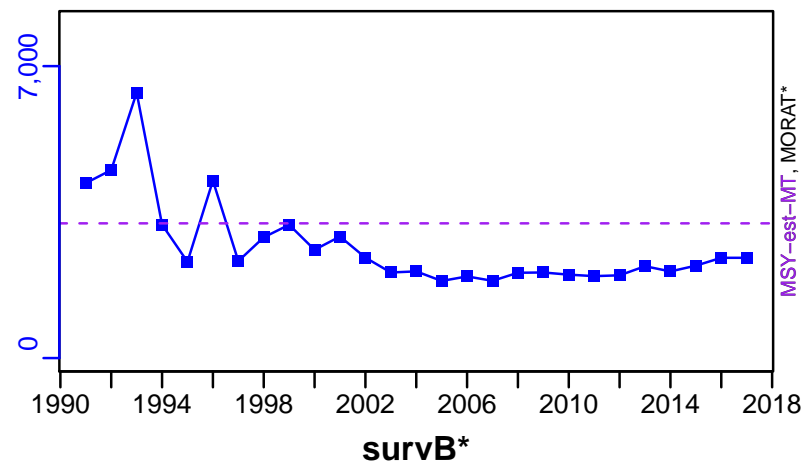
R-E00 (1985-2017-SISIMP2021)



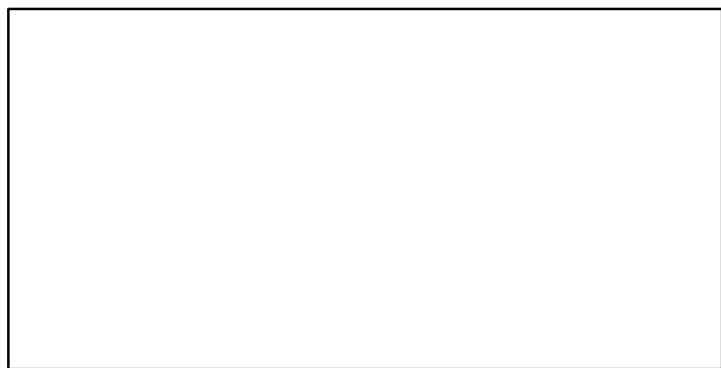
Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

TC-MT, TL*, RecC* (1985-2017-SISIMP2021)

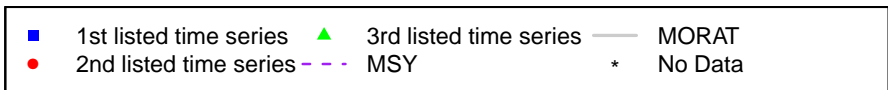
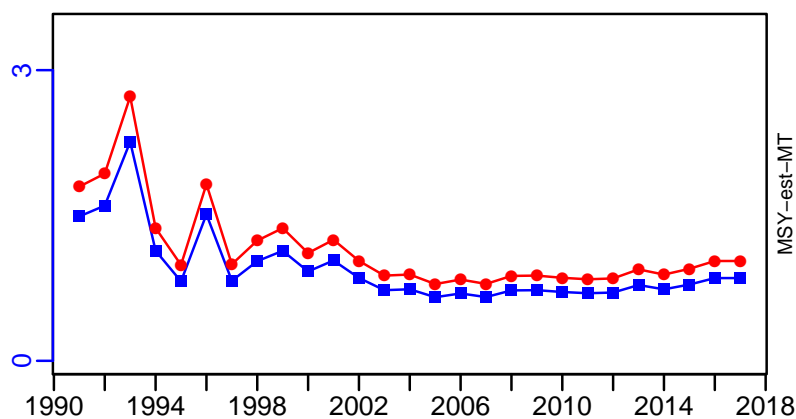
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1985-2017-SISIMP2021)



Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

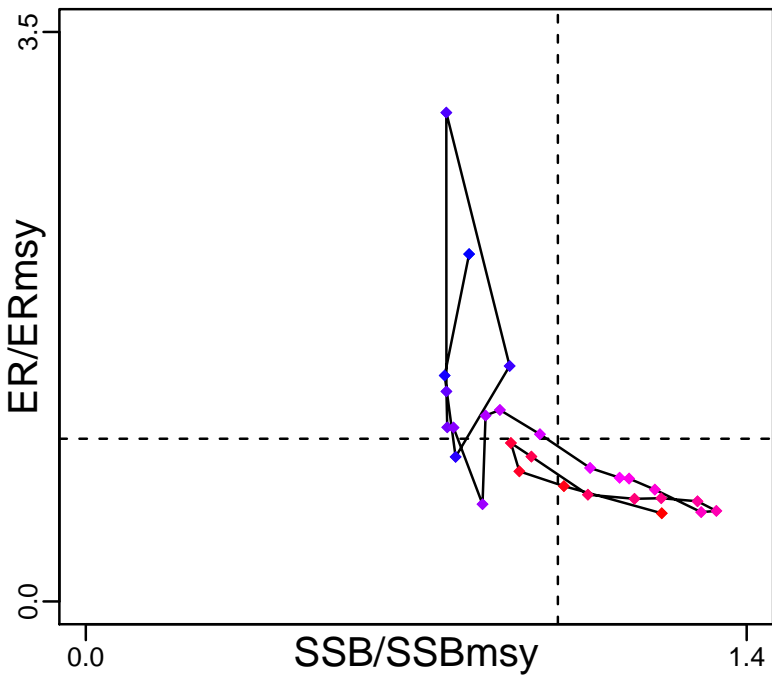
Metadata	
Scientific Name	Lithodes aequispinus
Current Assess ID	AFSC-GKCRABAIWS-1985-2017-SISIMP2021
Area	Aleutian Islands Western segment
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	5138
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2017	0.347
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2017	2155
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

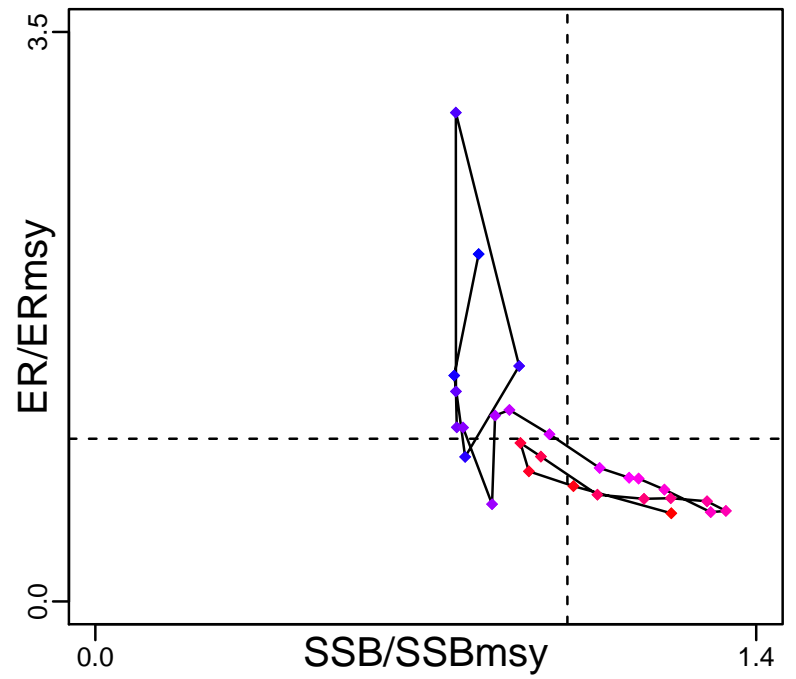
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	6269	-	-
TN	-	-	-	-	-
R	R-E00	2017	2,060,000	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2017	0.188	-	-
TC	TC-MT	2017	1425		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.22		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2017	0.542		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

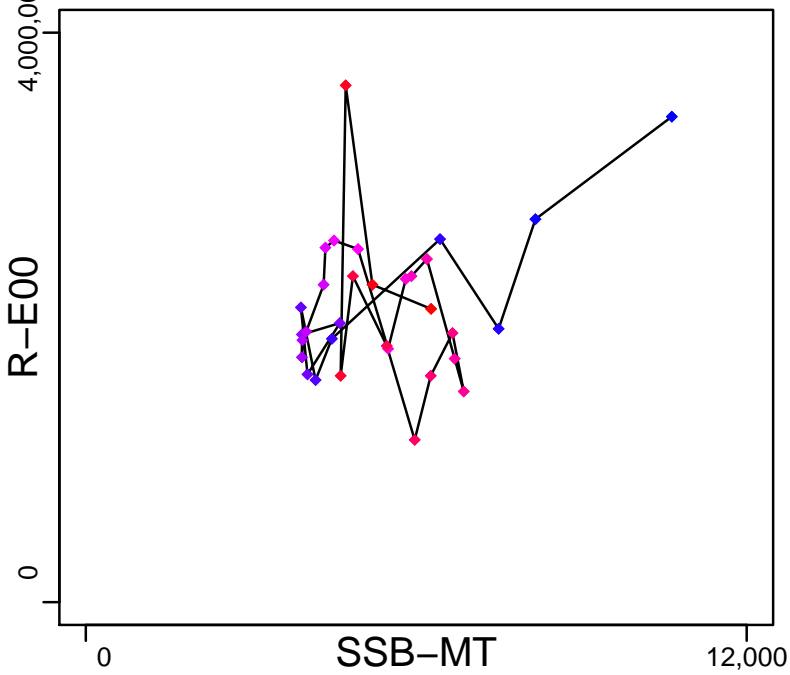
Kobe MSY_{pref} (1985–2017–SISIMP2021)



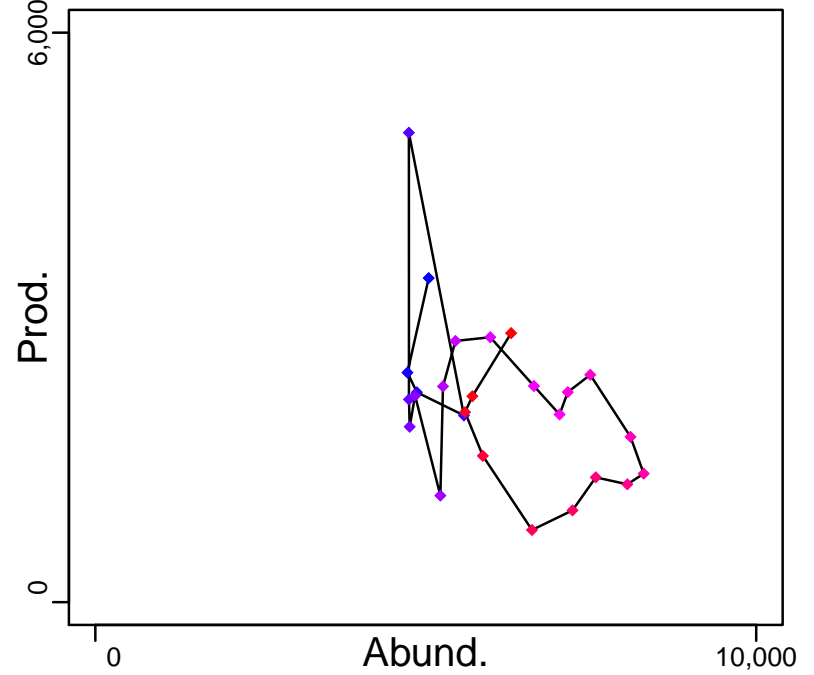
Kobe MGT_{pref} (1985–2017–SISIMP2021)



Spawner Recruit (1985–2017–SISIMP2021)



Production (1985–2017–SISIMP2021)



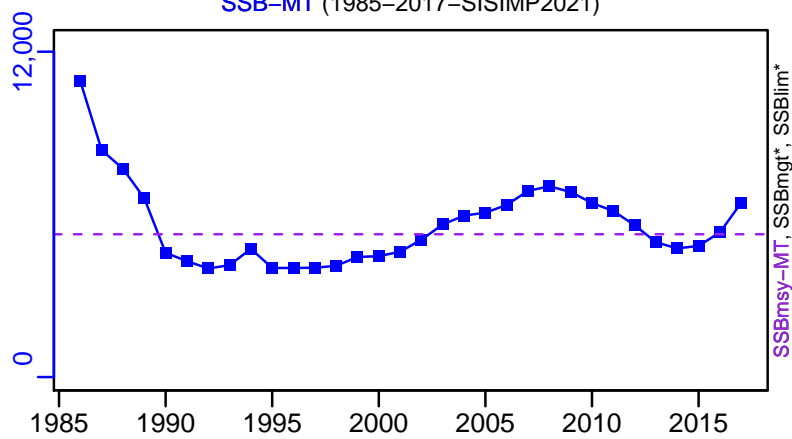
◆ Start Year ◆ End Year * No Data

Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

TB*



SSB-MT (1985-2017-SISIMP2021)



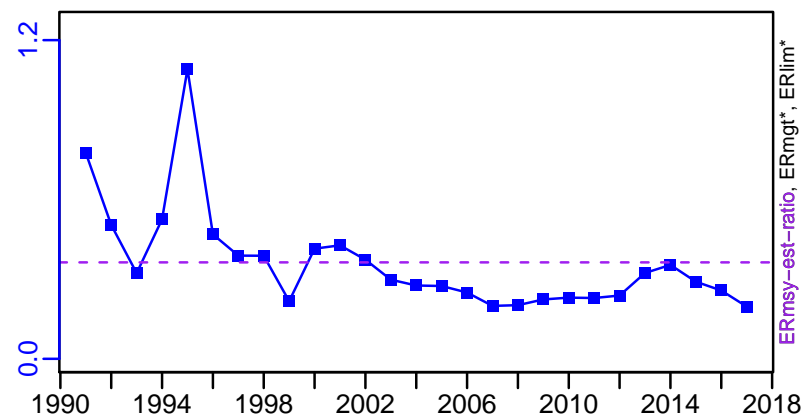
TN *



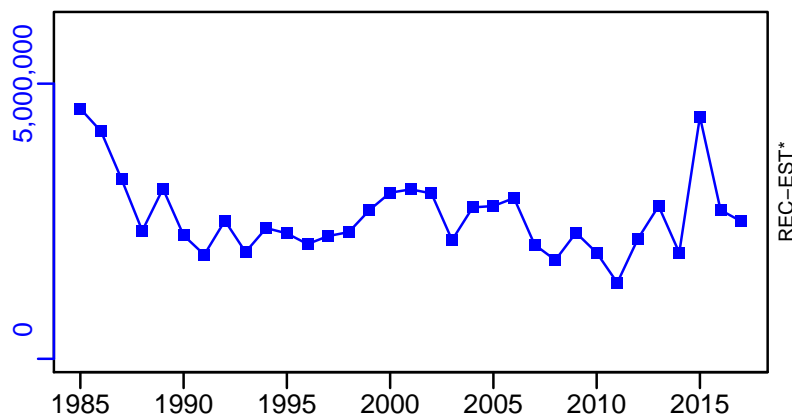
F*



ER-calc-ratio (1985-2017-SISIMP2021)



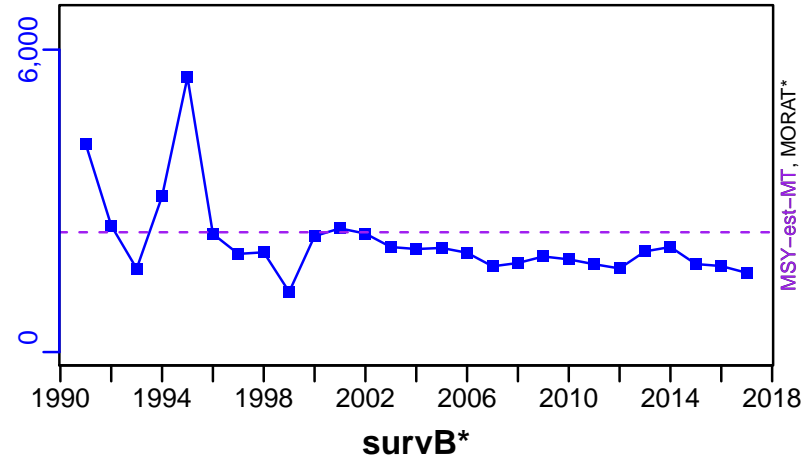
R-E00 (1985-2017-SISIMP2021)



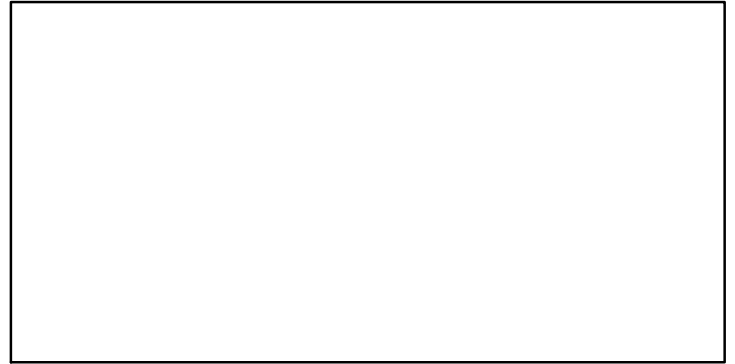
Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

TC-MT, TL*, RecC* (1985-2017-SISIMP2021)

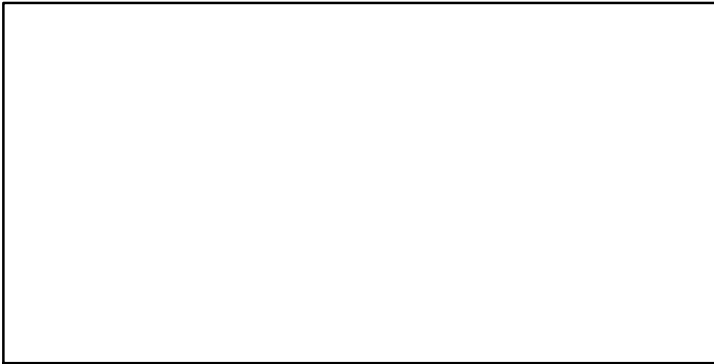
TAC*, Cpair*, Cadv*



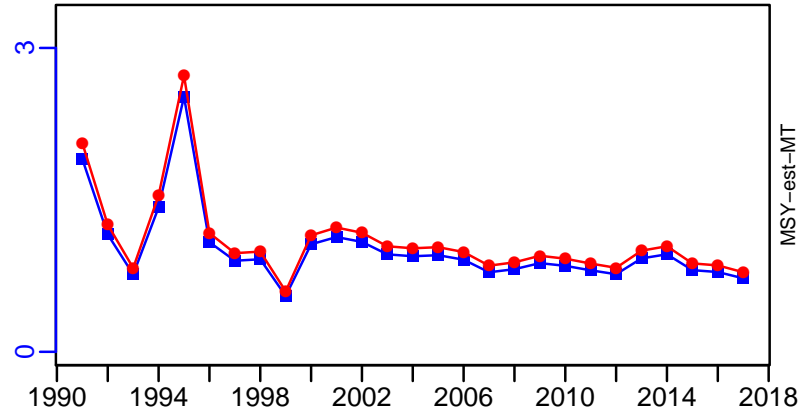
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1985-2017-SISIMP2021)



Golden king crab Pribilof Islands [GKCRABPI]

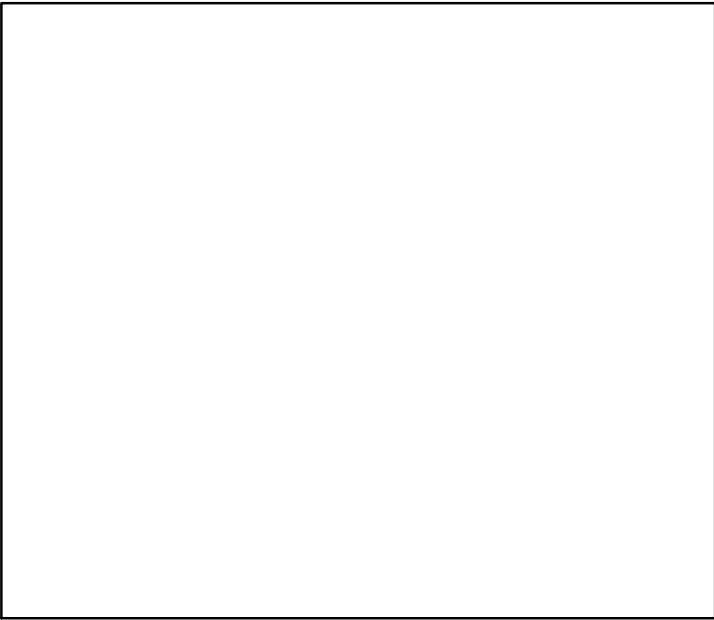
Metadata	
Scientific Name	Lithodes aequispinus
Current Assess ID	AFSC-GKCRABPI-1982-2016-SISIMP2021
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2009

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

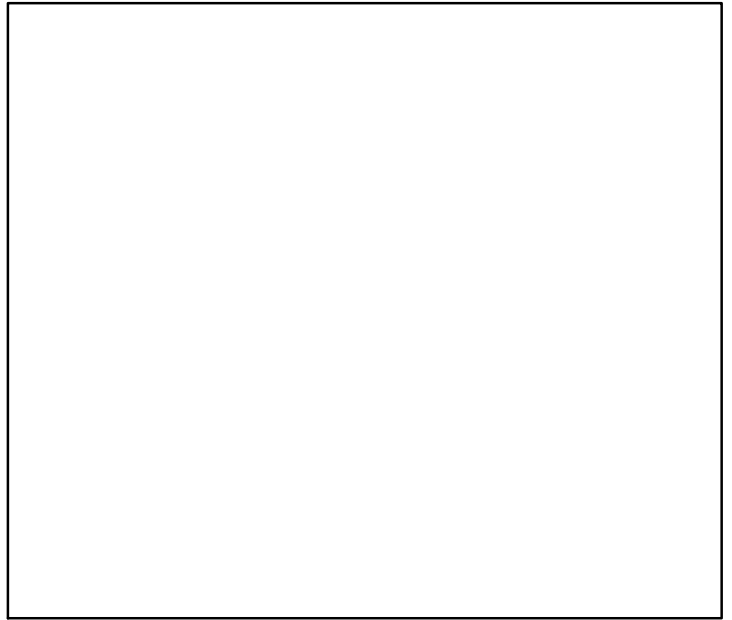
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Golden king crab Pribilof Islands [GKCRABPI]

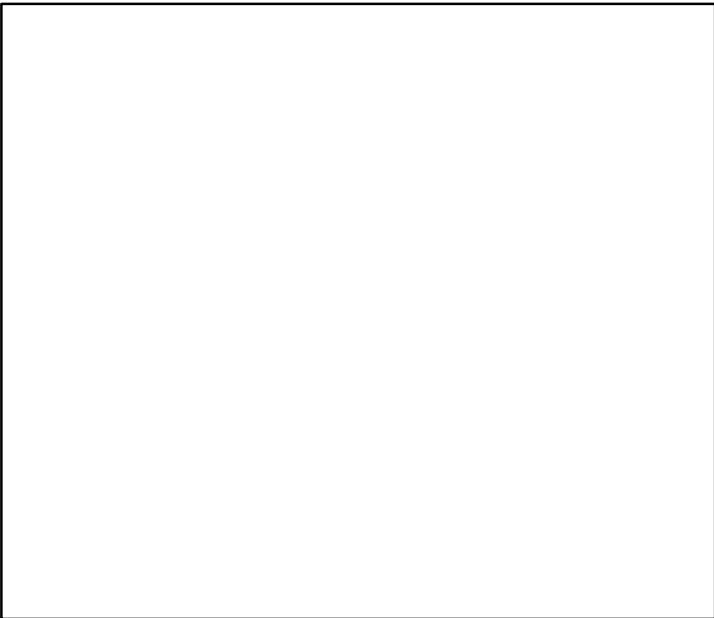
Kobe MSY*



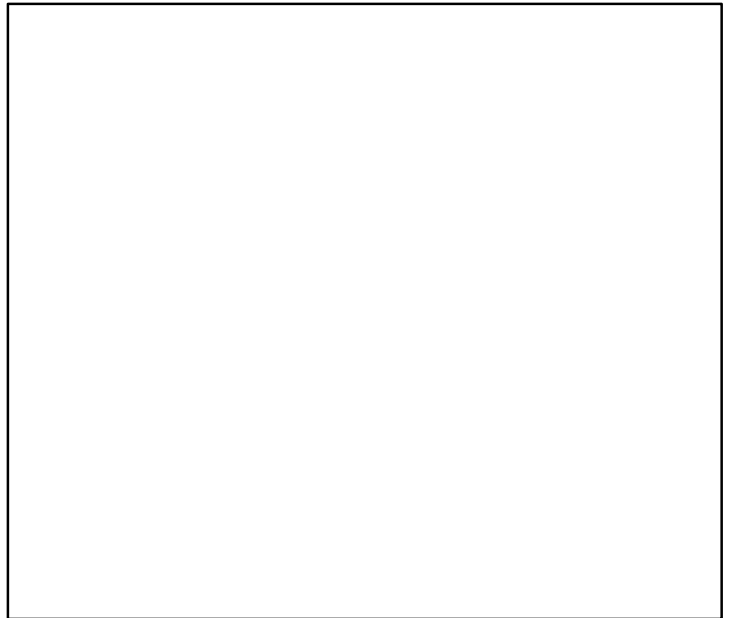
Kobe MGT*



Spawner Recruit*



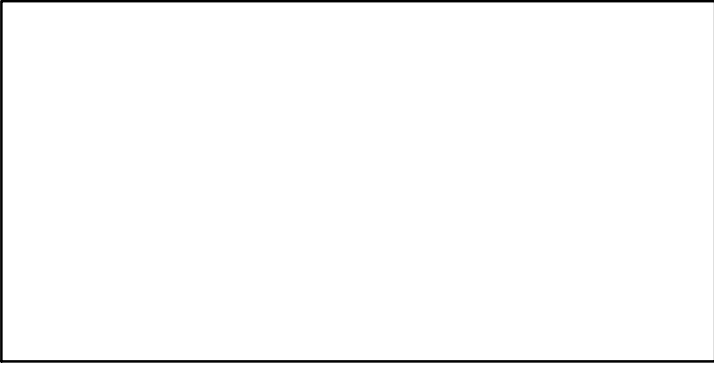
Production*



◆ Start Year ◆ End Year * No Data

Golden king crab Pribilof Islands [GKCRABPI]

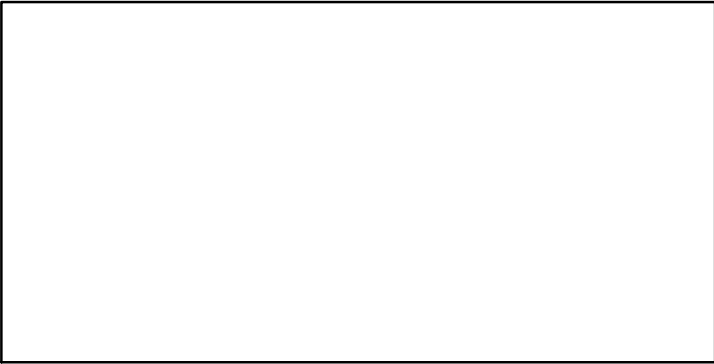
TB*



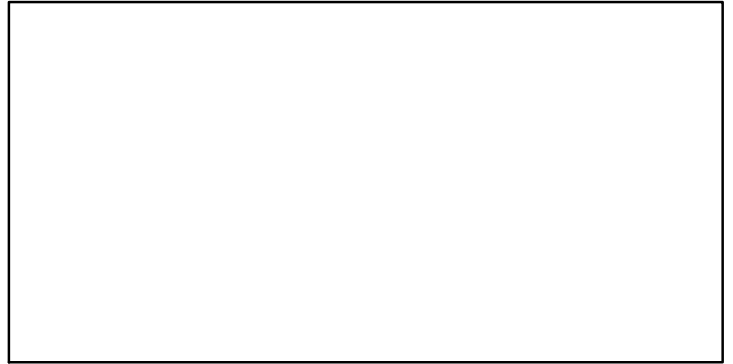
SSB*



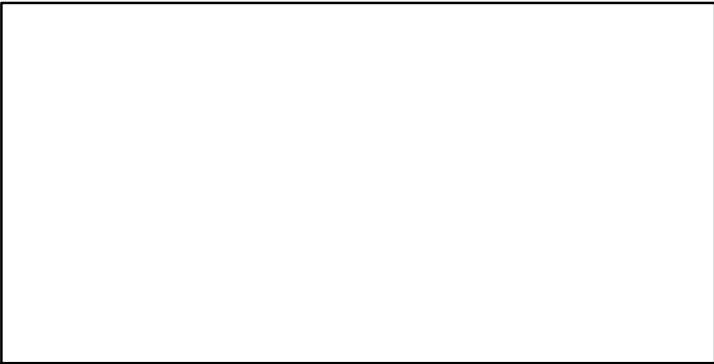
TN *



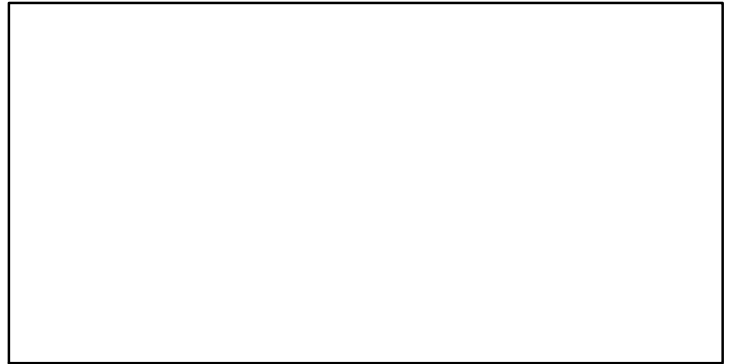
F*



ER*

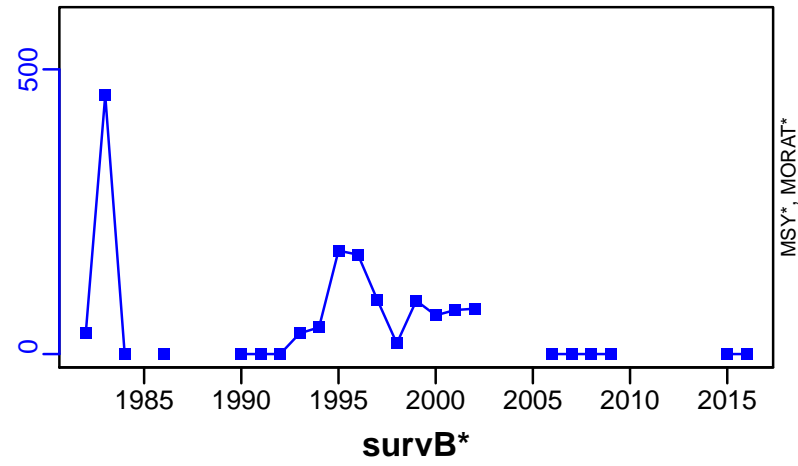


Recruits*



Golden king crab Pribilof Islands [GKCRABPI]

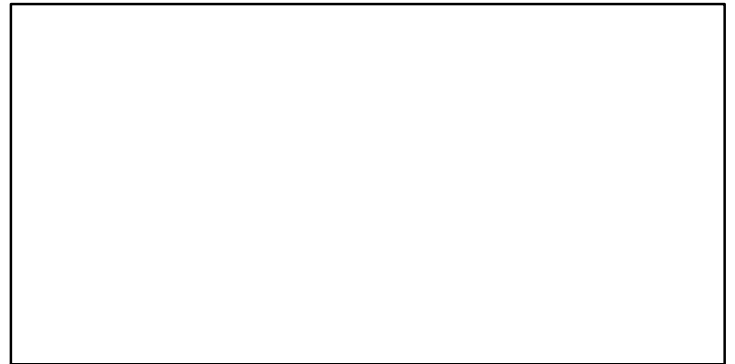
TC-MT, TL*, RecC* (1982-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



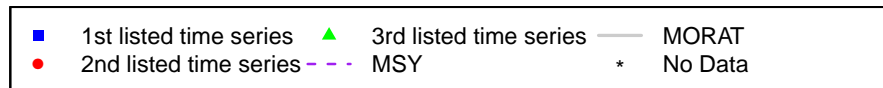
CPUE*



EFFORT*



CdivMSY*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOBSAI-1997-2017-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	281		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



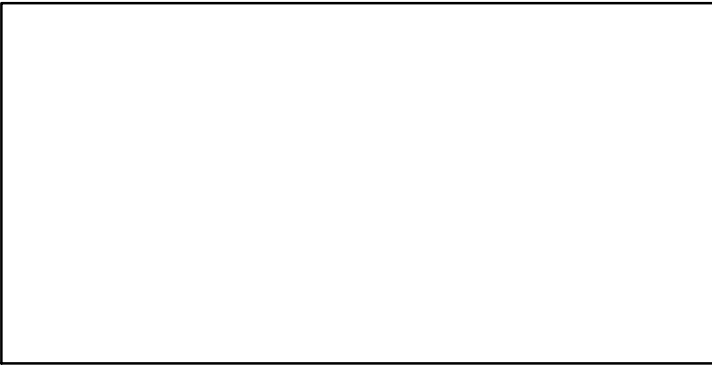
Production*



◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

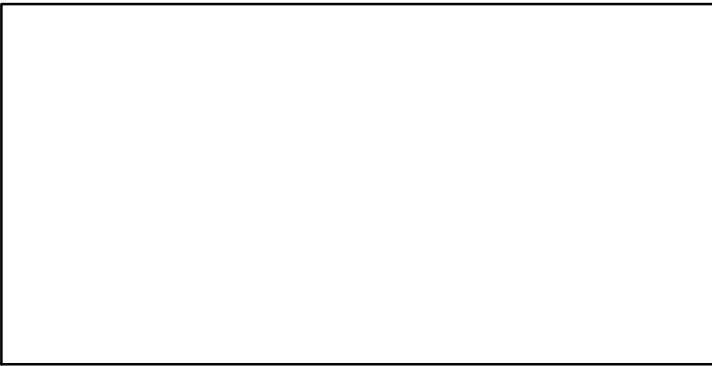
TB*



SSB*



TN *



F*



ER*



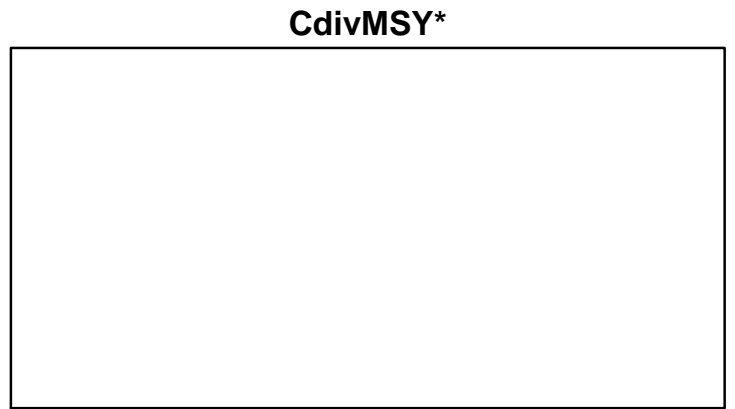
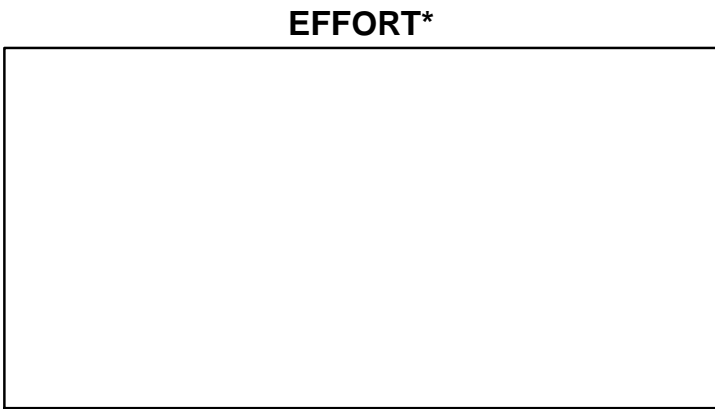
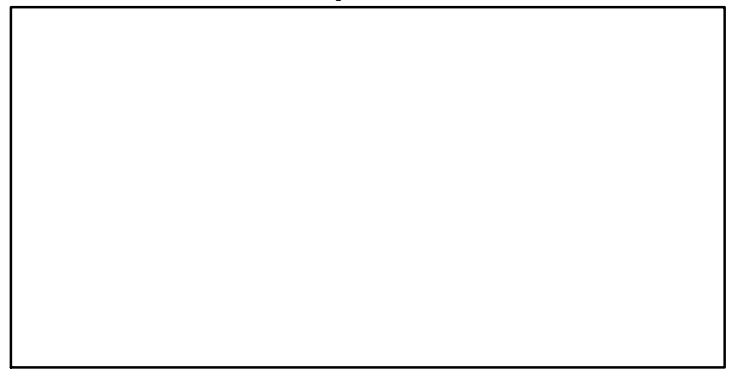
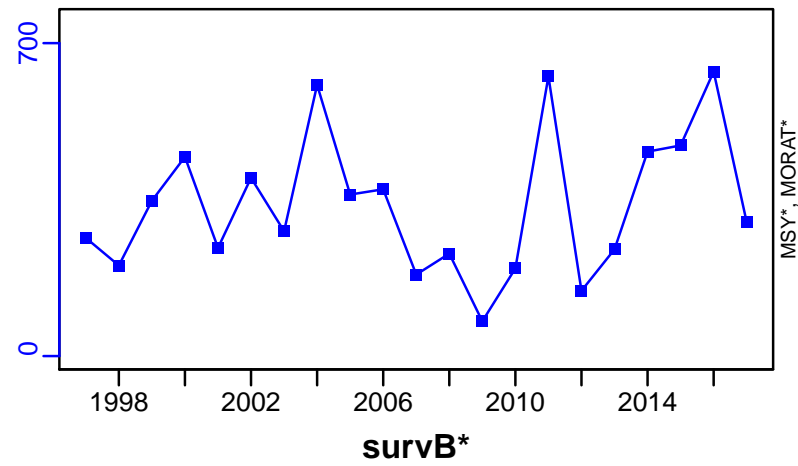
Recruits*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TC-MT, TL*, RecC* (1997-2017-SISIMP2021)

TAC*, Cpair*, Cadv*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

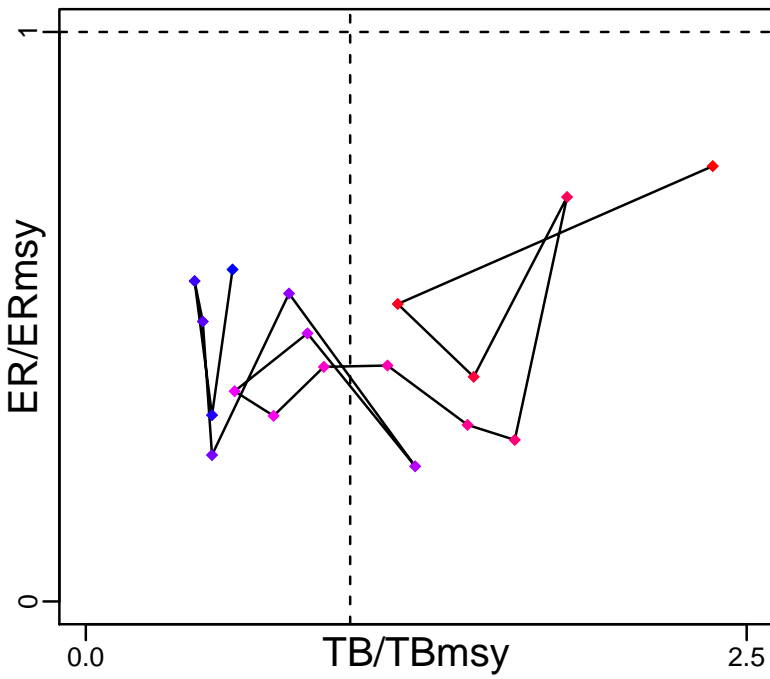
Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOGA-1997-2016-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	2576
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2014	0.278
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	717
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

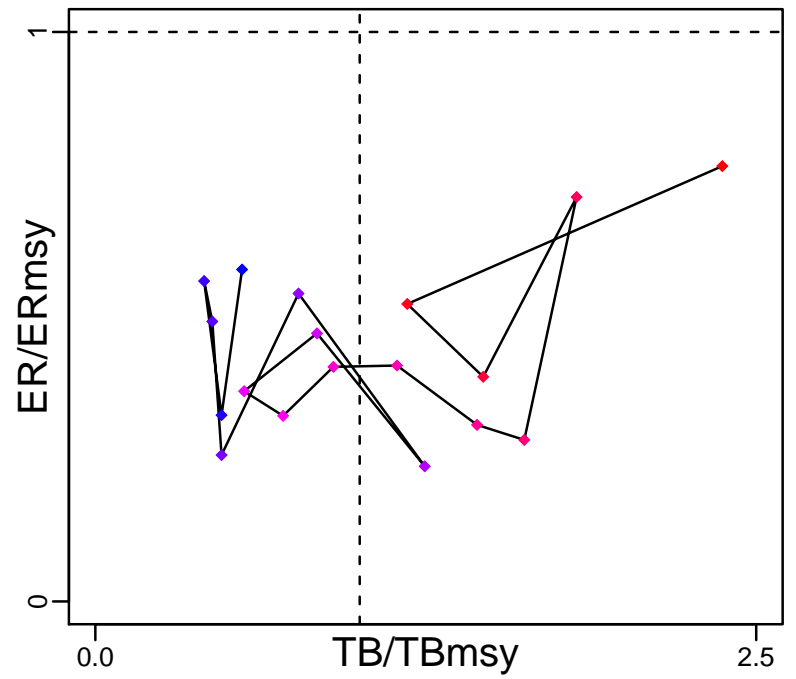
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	12,300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.213	-	-
TC	TC-MT	2016	382		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	4.775		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2014	0.764		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

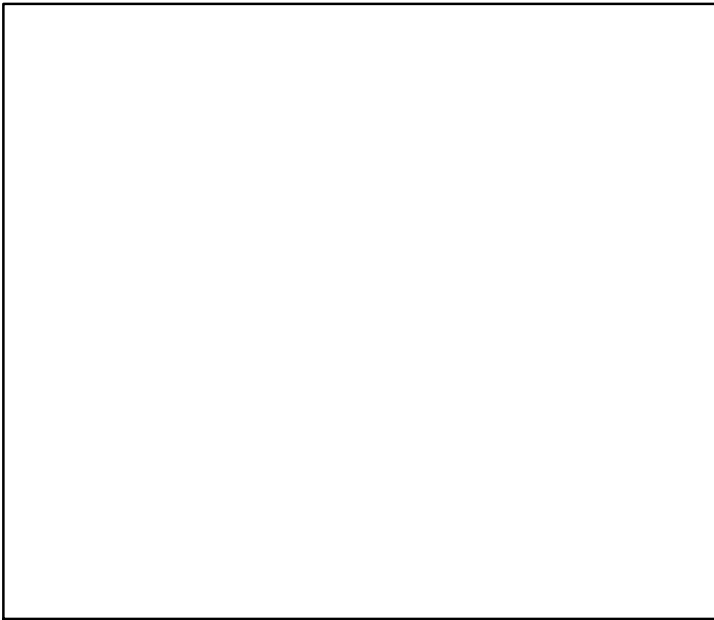
Kobe MSY_{pref} (1997–2014–SISIMP2016)



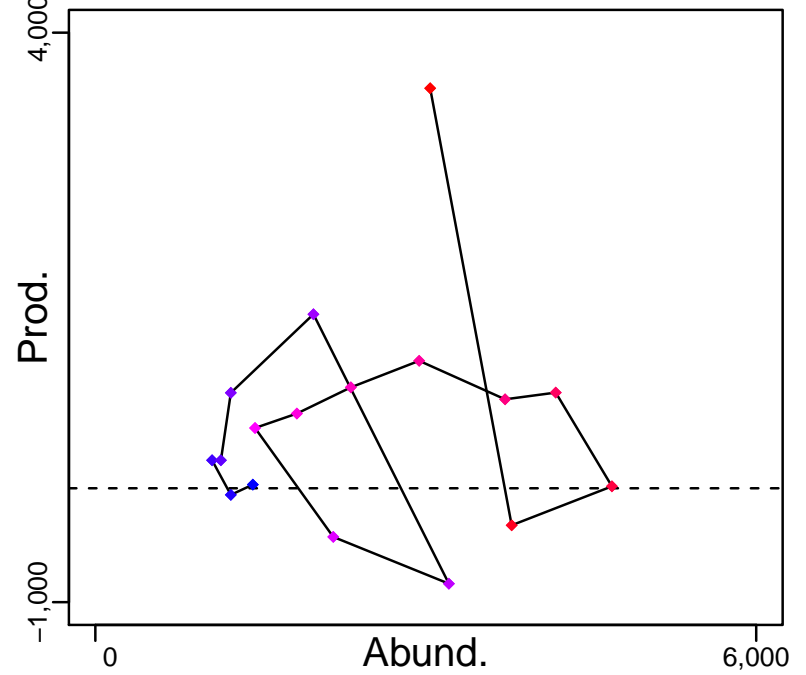
Kobe MGT_{pref} (1997–2014–SISIMP2016)



Spawner Recruit*



Production (1997–2014–SISIMP2016)

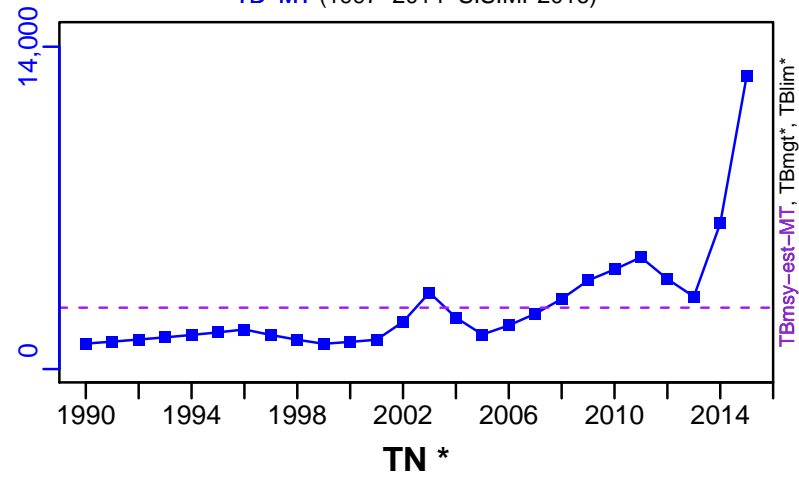


◆ Start Year ◆ End Year * No Data

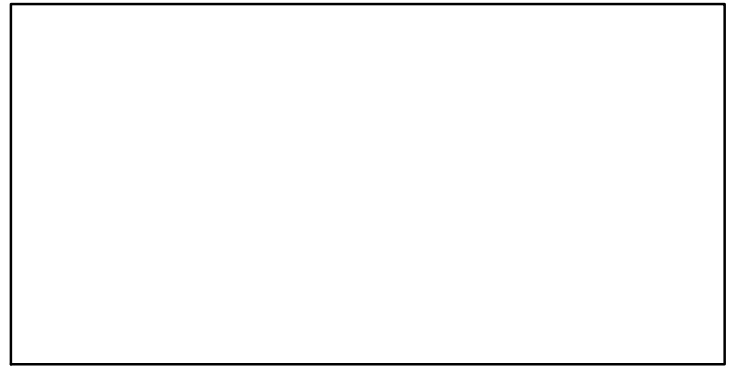
Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TB-MT (1997-2014-SISIMP2016)

SSB*

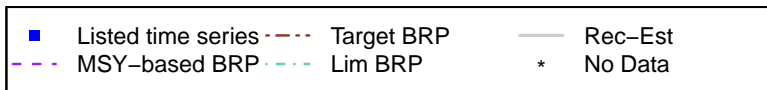
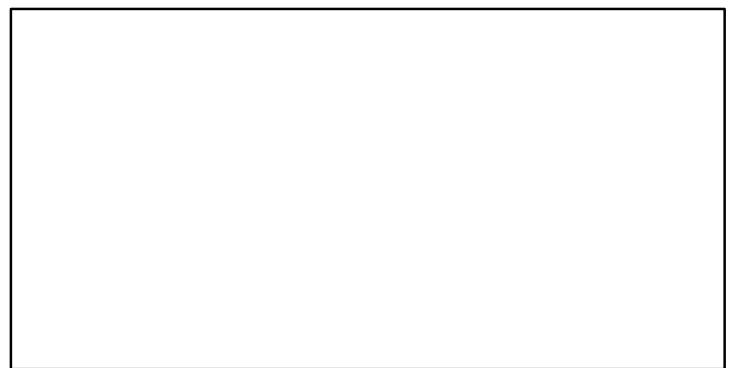
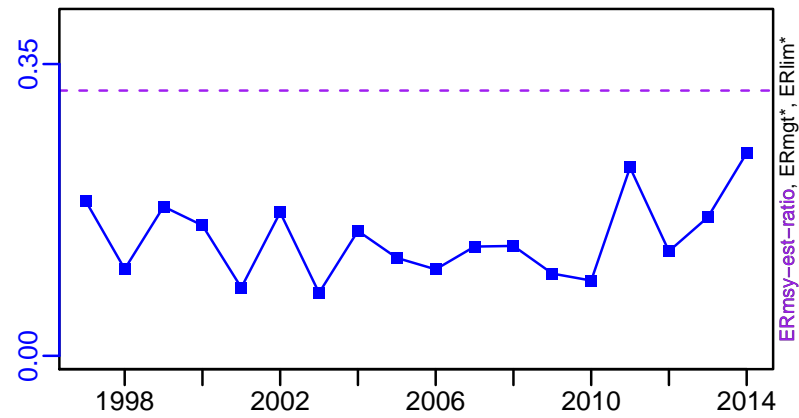


F*



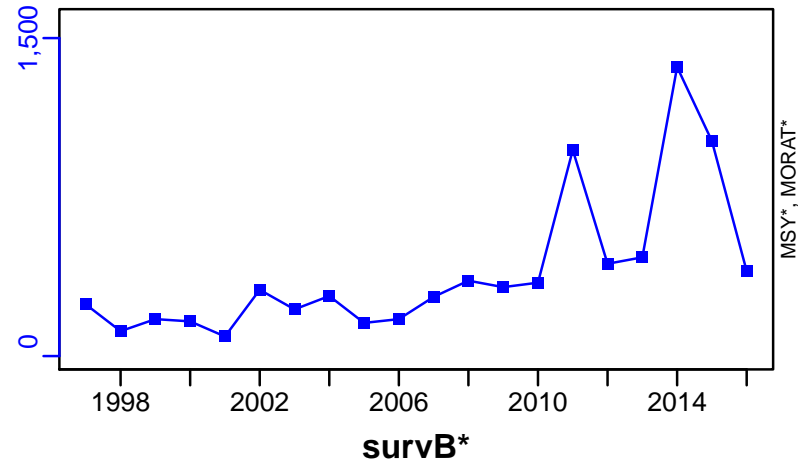
ER-calc-ratio (1997-2014-SISIMP2016)

Recruits*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TC-MT, TL*, RecC* (1997-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



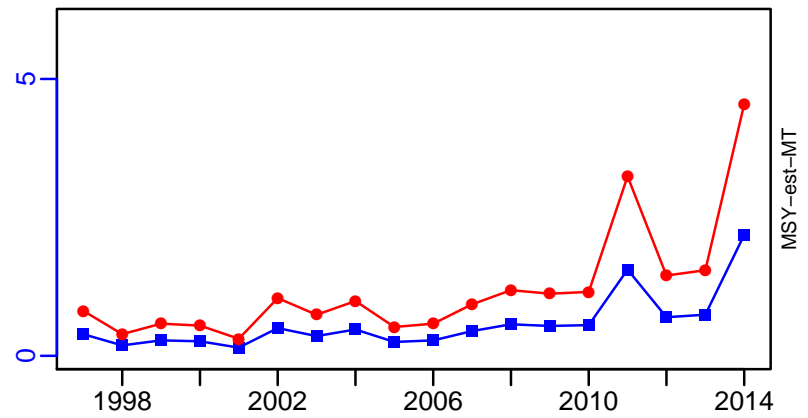
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1997-2014-SISIMP2016)



Pacific herring Prince William Sound [HERRPWS]

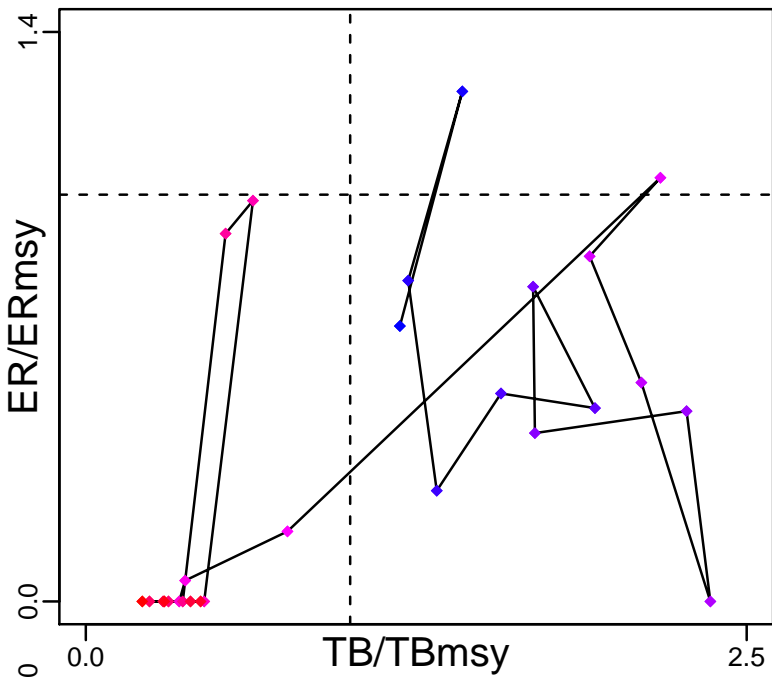
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	ADFG-HERRPWS-1980-2006-COLLIE
Area	Prince William Sound
Management Authority	State of Alaska
Assessor	Alaska Department of Fish and Game
Asmts in RAM	2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2006	44,442
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2006	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2006	7111
M	M-1/yr	2006	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

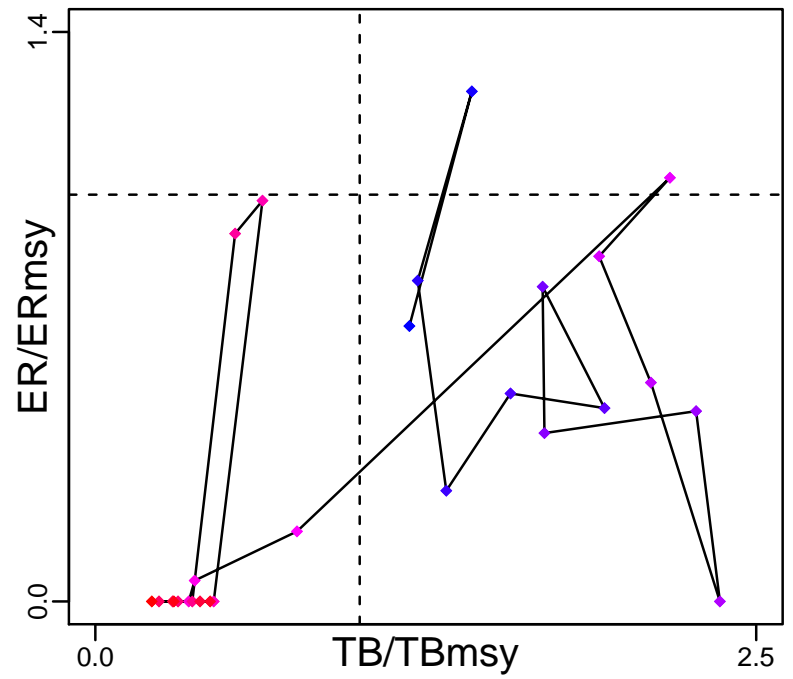
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	9500	-	3+
SSB	SSB-MT	2006	9500	Both	3+
TN	-	-	-	-	-
R	R-E00	2006	30,300,000	-	3
F	F-1/yr	2006	0	Both	3+
ER	ER-calc-ratio	2006	0	-	-
TC	TC-E00	2006	0		
TL	TL-MT	2006	0		
TB/TBmsy	TB-MT/TBmsy-est-MT	2006	0.214		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2006	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Prince William Sound [HERRPWS]

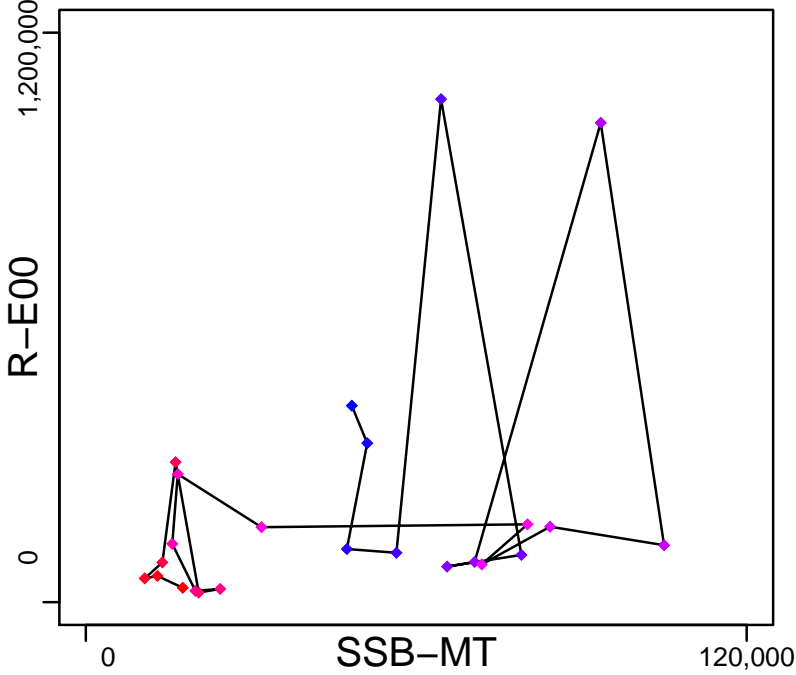
Kobe MSYpref (1980–2006–COLLIE)



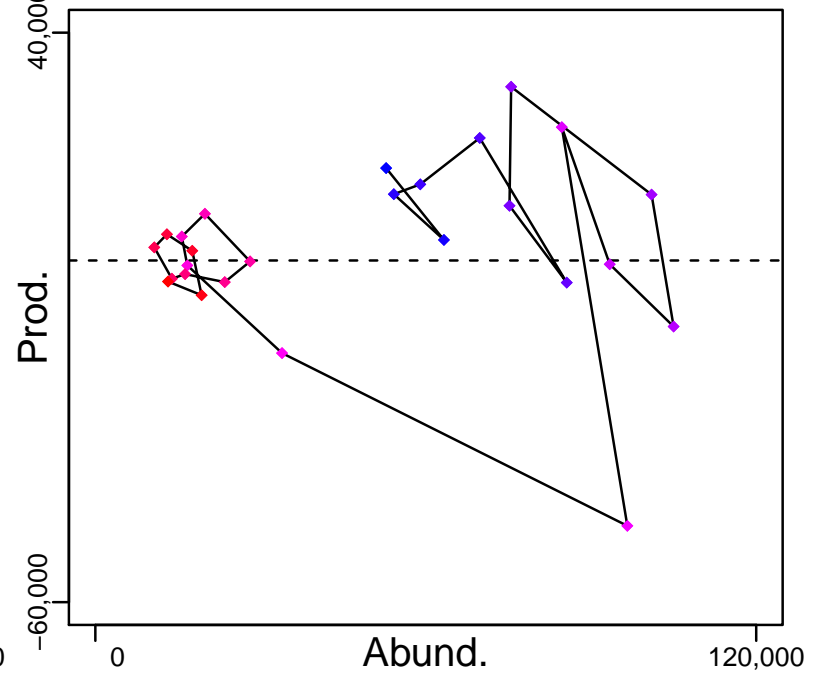
Kobe MGTpref (1980–2006–COLLIE)



Spawner Recruit (1980–2006–COLLIE)



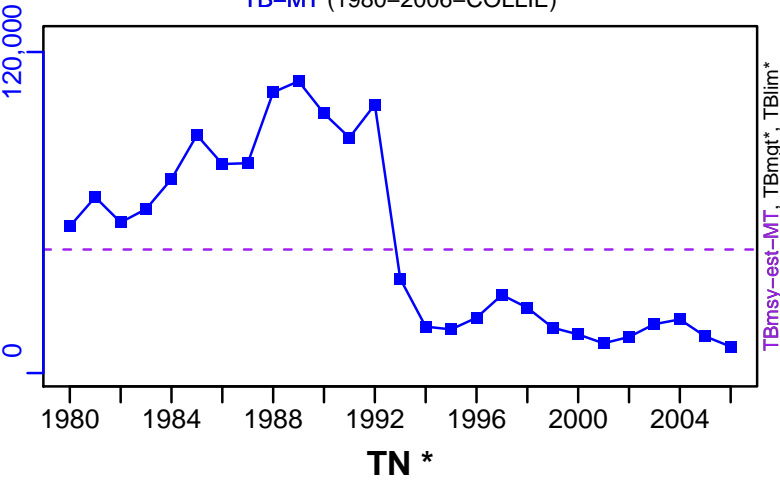
Production (1980–2006–COLLIE)



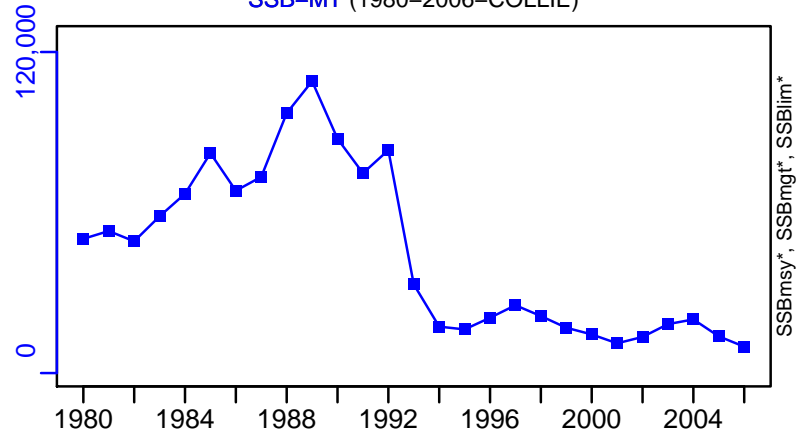
◆ Start Year ◆ End Year * No Data

Pacific herring Prince William Sound [HERRPWS]

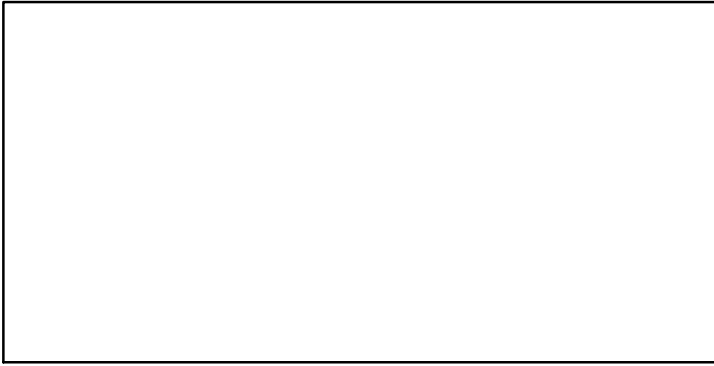
TB-MT (1980-2006-COLLIE)



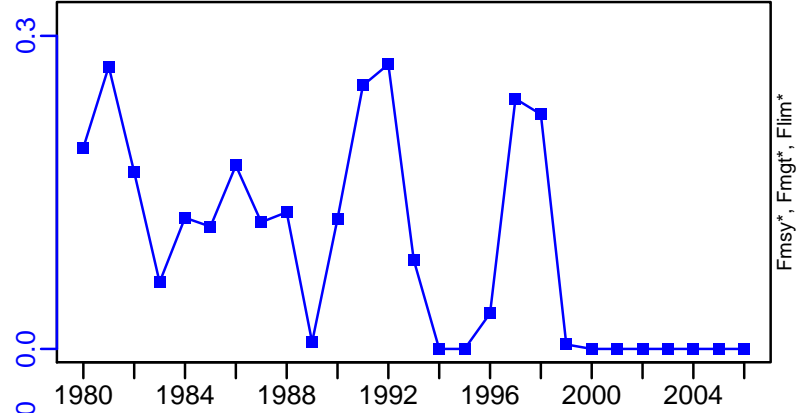
SSB-MT (1980-2006-COLLIE)



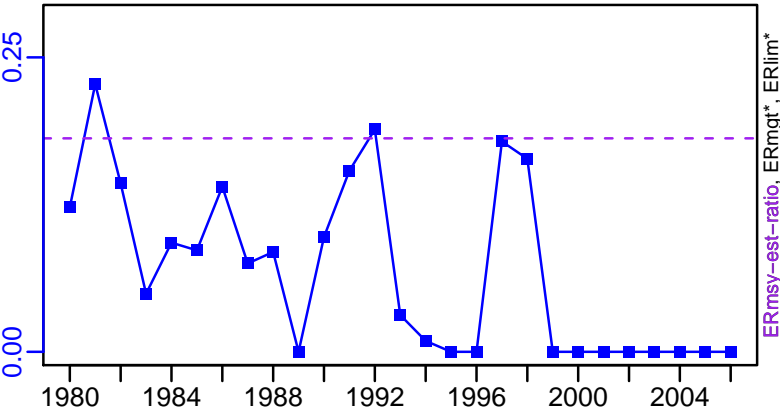
TN *



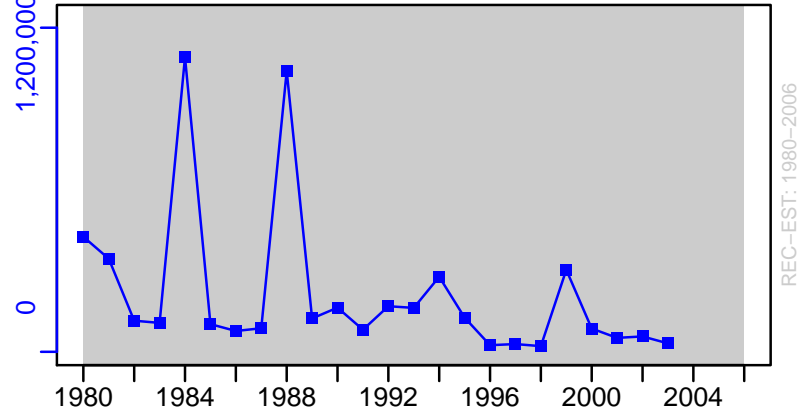
F-1/yr (1980-2006-COLLIE)



ER-calc-ratio (1980-2006-COLLIE)

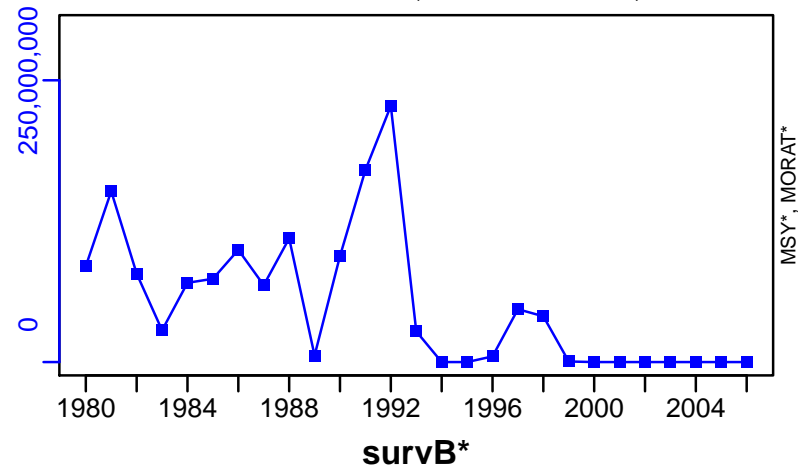


R-E00 (1980-2006-COLLIE)



Pacific herring Prince William Sound [HERRPWS]

TC-E00, TL*, RecC* (1980-2006-COLLIE)



TAC*, Cpair*, Cadv*



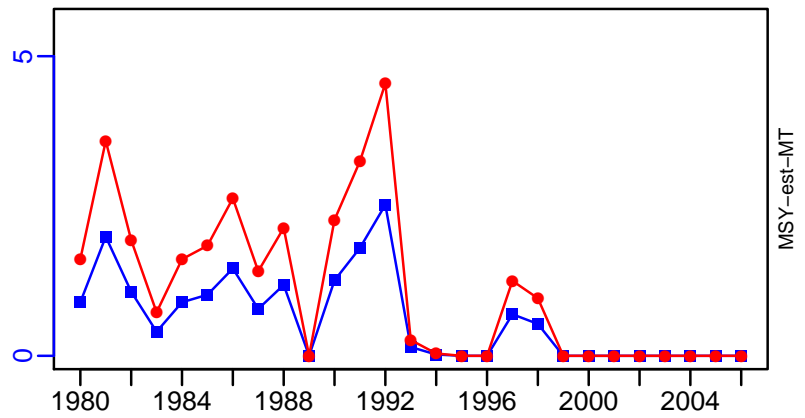
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1980-2006-COLLIE)



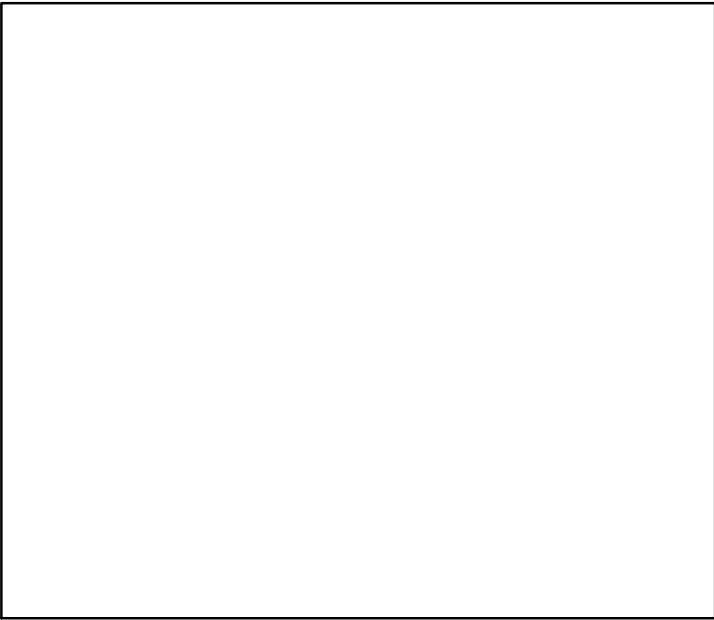
Pacific herring Sitka [HERRSITKA]

Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	ADFG-HERRSITKA-1978-2007-COLLIE
Area	Sitka
Management Authority	State of Alaska
Assessor	Alaska Department of Fish and Game
Asmts in RAM	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	98,400	-	3+
SSB	SSB-MT	2007	82,900	Both	3+
TN	-	-	-	-	-
R	R-E00	2007	1.14×10^8	-	3
F	F-1/yr	2007	0.118	Both	3+
ER	-	-	-	-	-
TC	TC-E00	2007	69,600,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

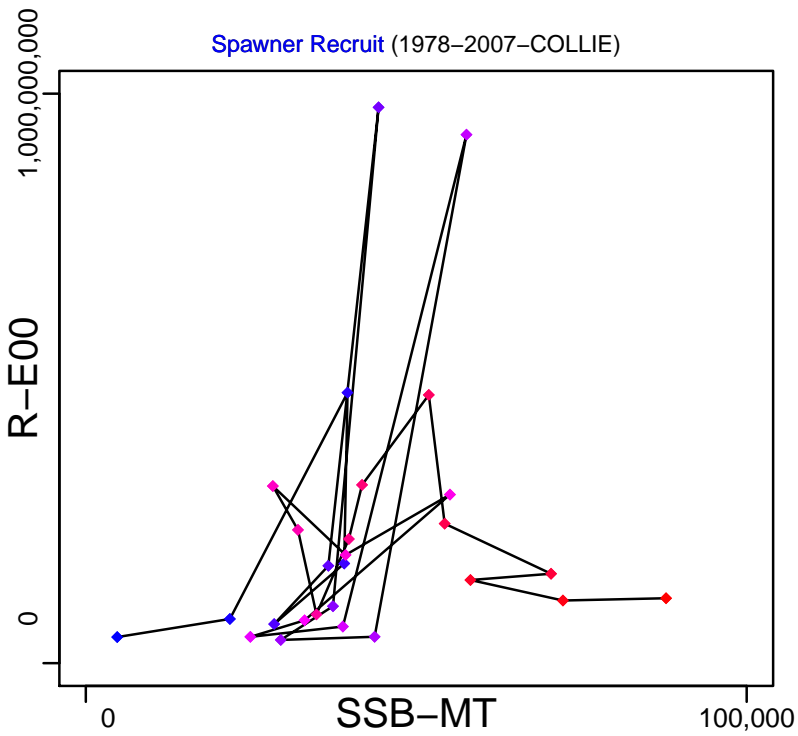
Kobe MSY*



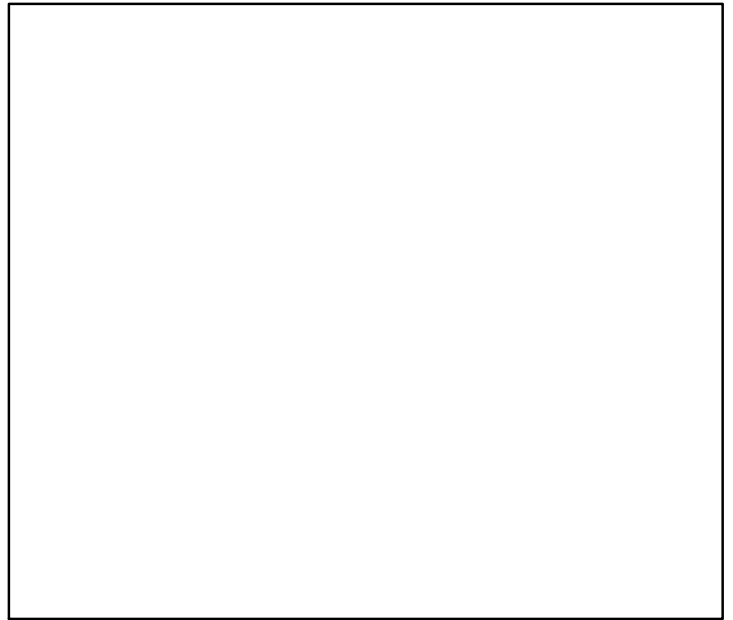
Kobe MGT*



Spawner Recruit (1978–2007–COLLIE)



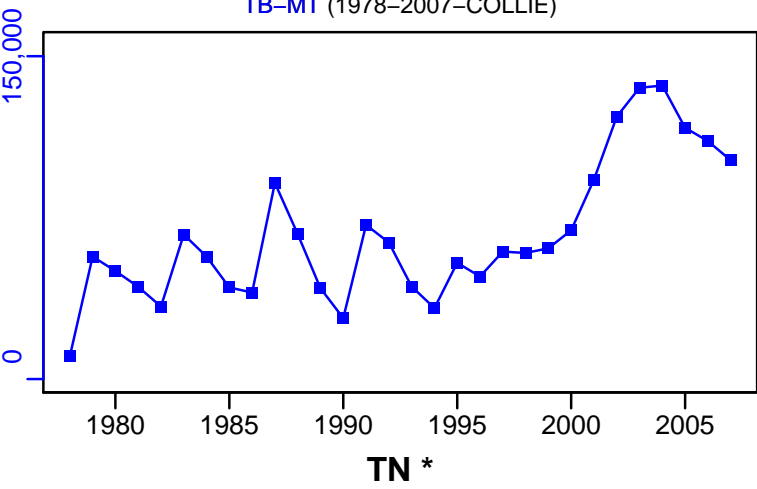
Production*



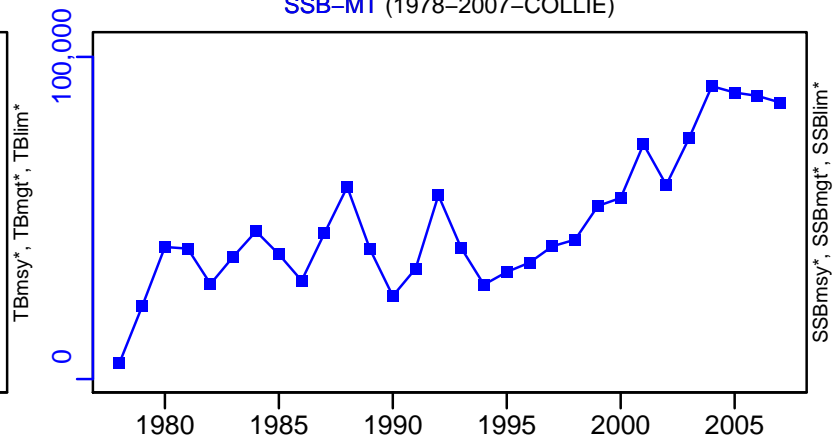
◆ Start Year ◆ End Year * No Data

Pacific herring Sitka [HERRSITKA]

TB-MT (1978-2007-COLLIE)



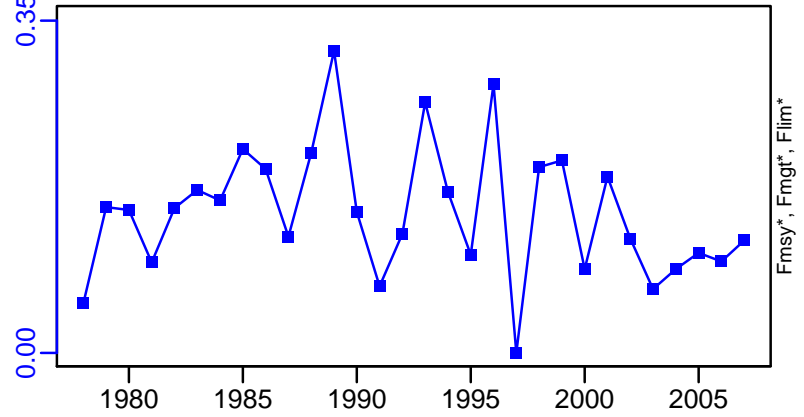
SSB-MT (1978-2007-COLLIE)



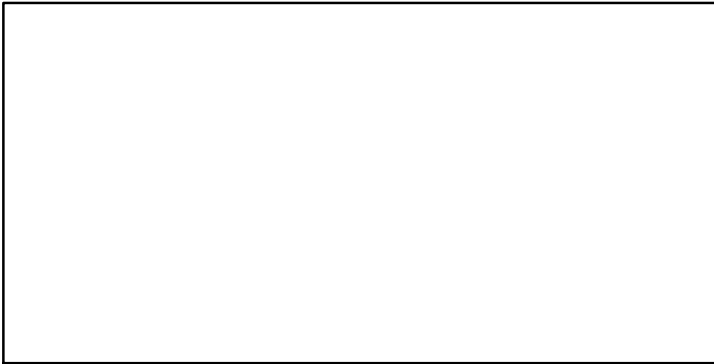
TN *



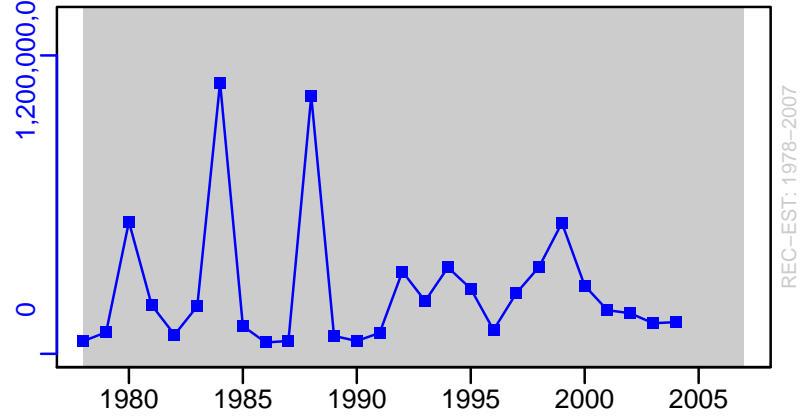
F-1/yr (1978-2007-COLLIE)



ER*

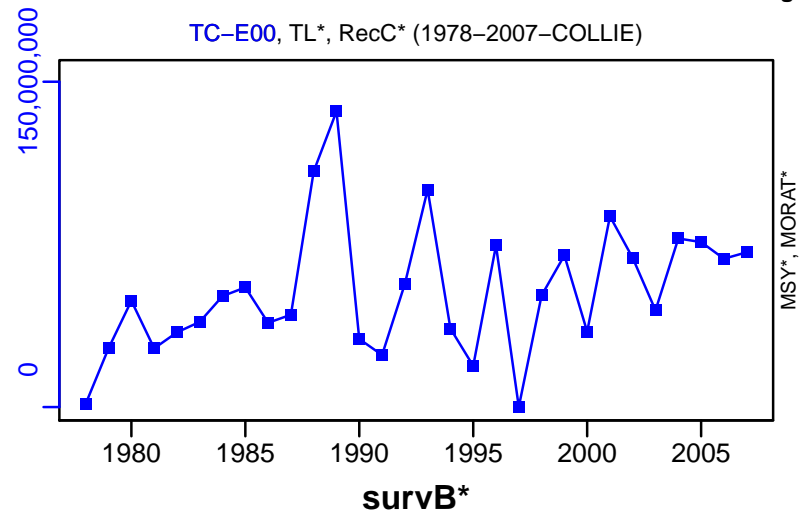


R-E00 (1978-2007-COLLIE)



Pacific herring Sitka [HERRSITKA]

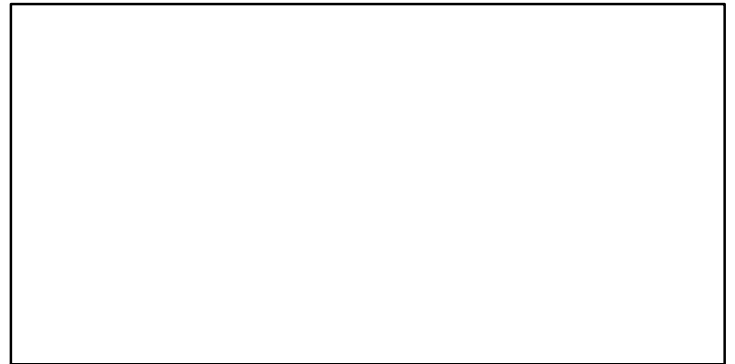
TC-E00, TL*, RecC* (1978-2007-COLLIE)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Pacific herring Togiak District [HERRTOG]

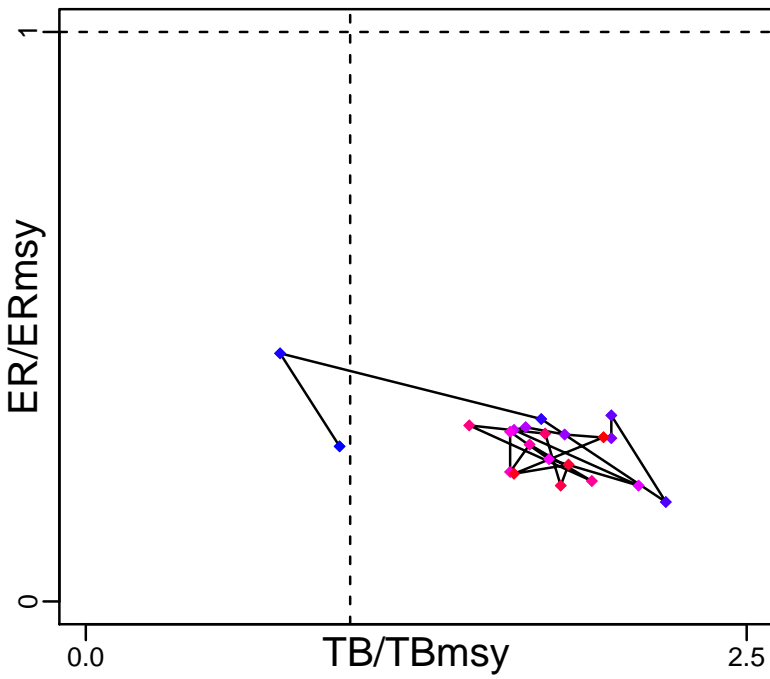
Metadata	
Scientific Name	Clupea pallasii
Current Assess ID	ADFG-HERRTOG-1990-2010-HIVELY
Area	Togiak District
Management Authority	State of Alaska
Assessor	Alaska Department of Fish and Game
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	67,908
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2010	0.624
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	42,397
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

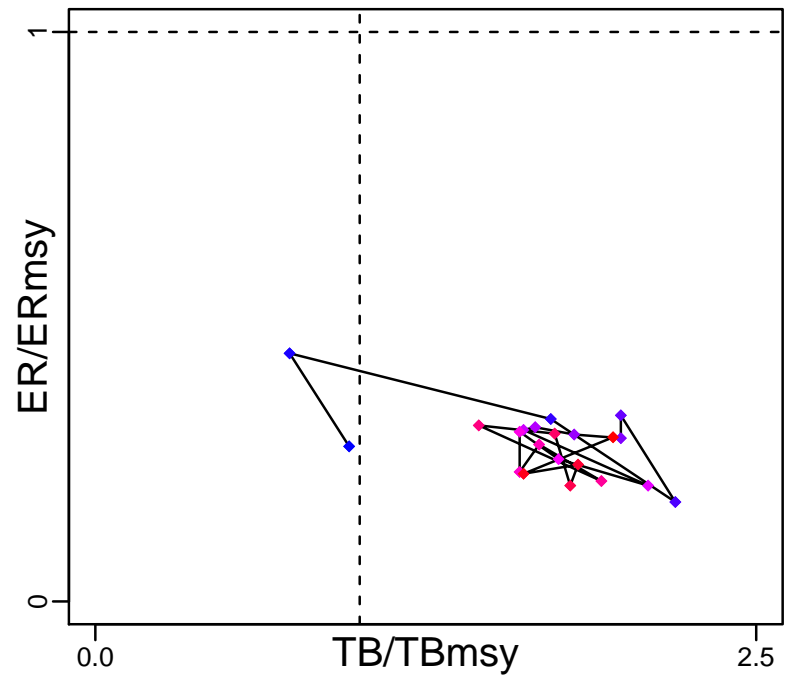
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	133,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.18	-	-
TC	TC-MT	2010	23,900		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	1.959		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.288		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Togiak District [HERRTOG]

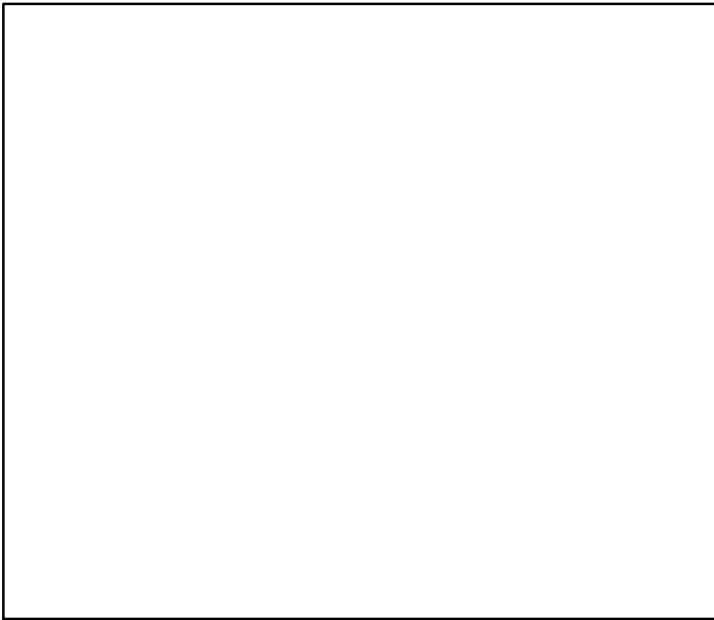
Kobe MSYpref (1990–2010–HIVELY)



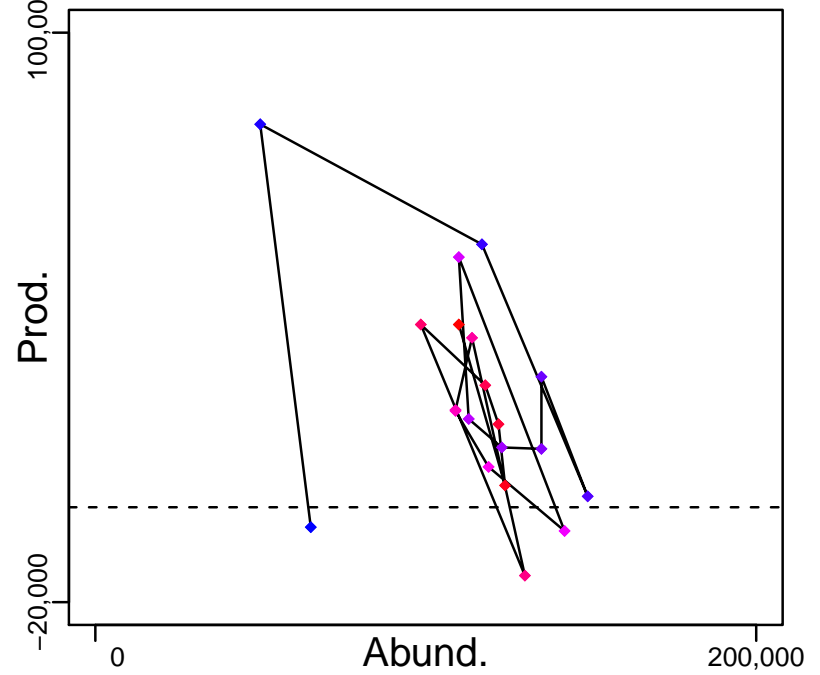
Kobe MGTpref (1990–2010–HIVELY)



Spawner Recruit*



Production (1990–2010–HIVELY)

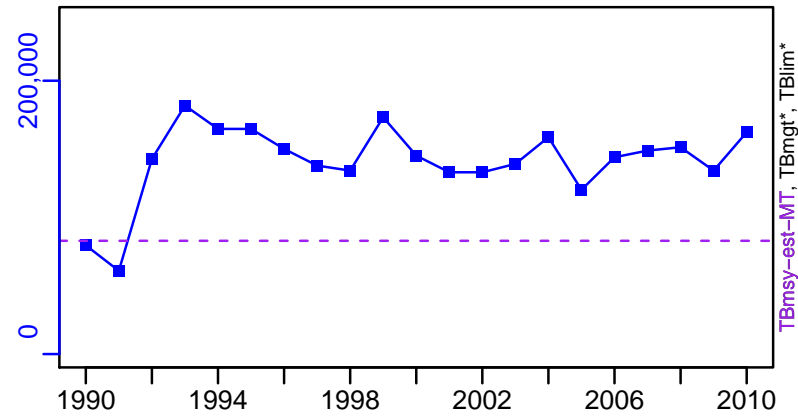


◆ Start Year ◆ End Year * No Data

Pacific herring Togiak District [HERRTOG]

TB-MT (1990-2010-HIVELY)

SSB*



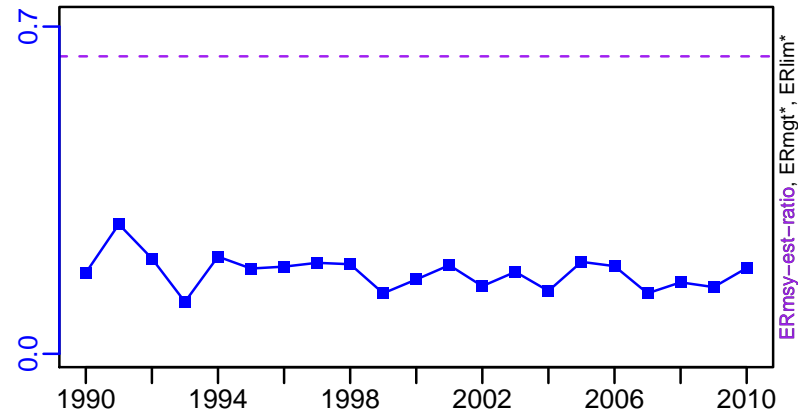
TN *

F*



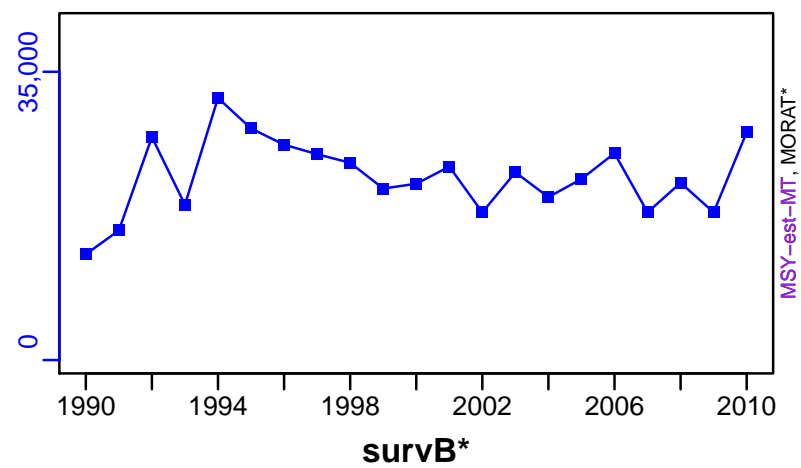
ER-ratio (1990-2010-HIVELY)

Recruits*



Pacific herring Togiak District [HERRTOG]

TC-MT, TL*, RecC* (1990-2010-HIVELY)



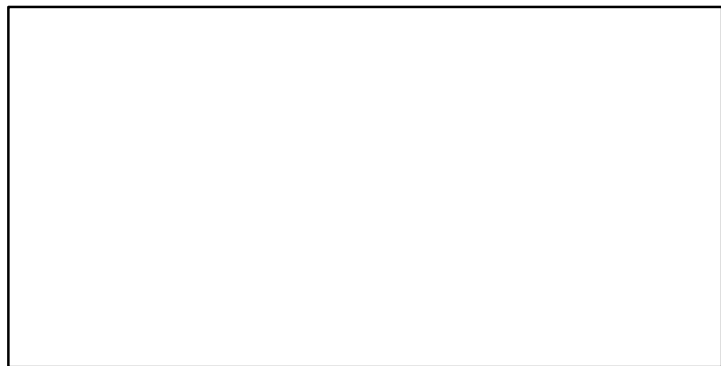
TAC*, Cpair*, Cadv*



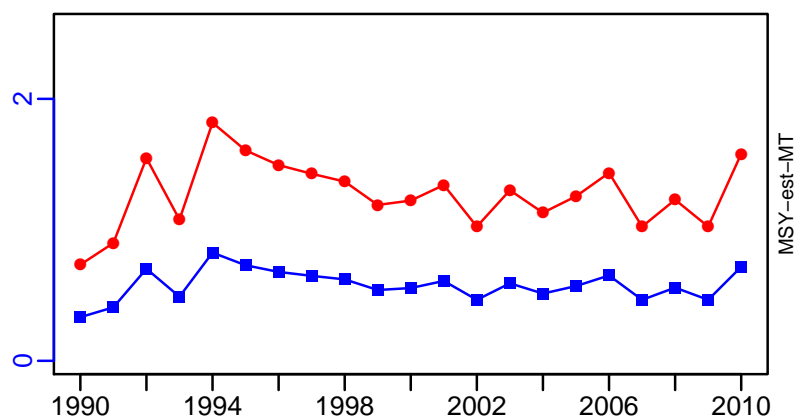
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1990-2010-HIVELY)



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

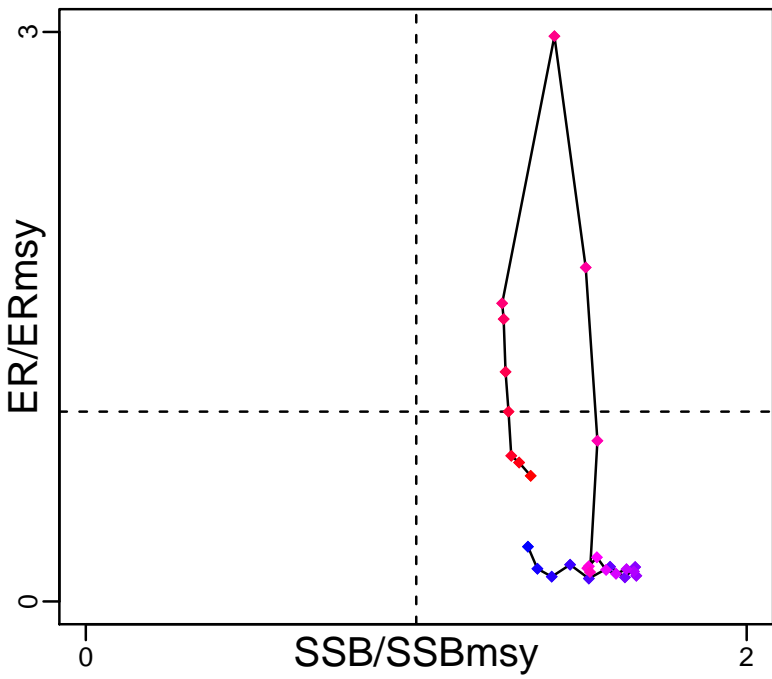
Metadata	
Scientific Name	Atheresthes evermanni
Current Assess ID	AFSC-KMFLOUNBSAI-1990-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	37,685
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2018	0.053
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	5055
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.232
ERlim	-	-	-

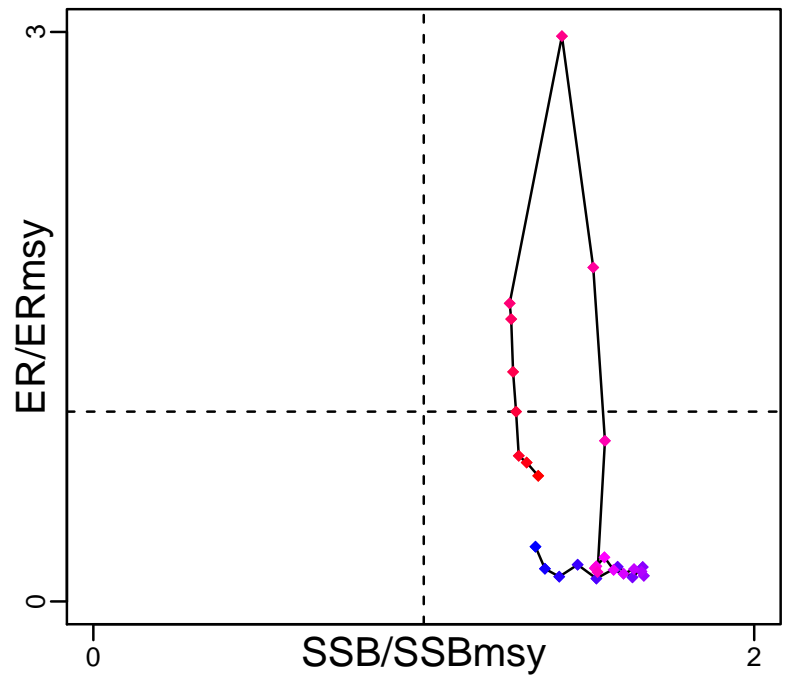
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	168,000	Both	2+
SSB	SSB-MT	2018	52,843	-	-
TN	-	-	-	-	-
R	R-E00	2018	33,700,300	-	1
F	F-1/yr	2018	0.048	-	-
ER	ER-calc-ratio	2018	0.035	-	-
TC	TC-MT	2018	4503		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.402		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.662		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

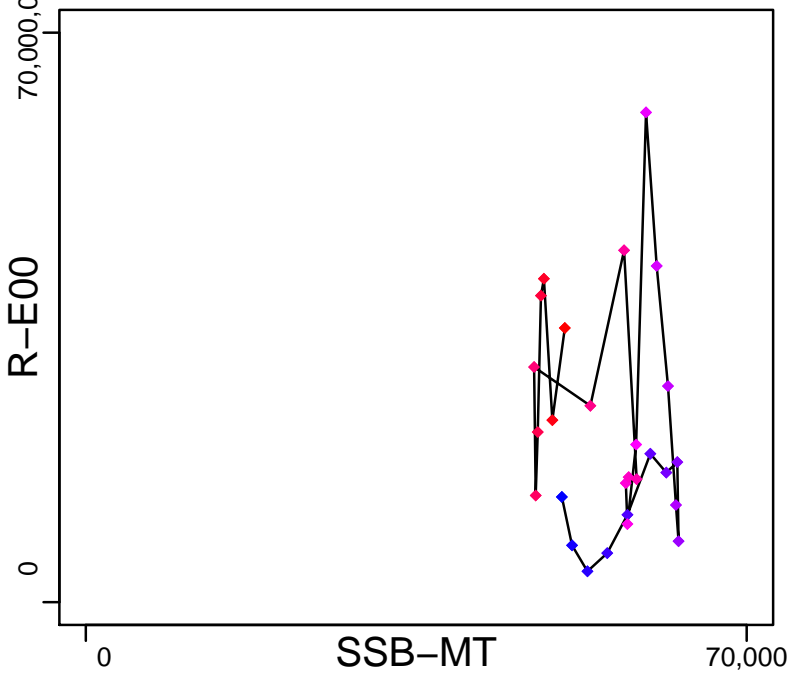
Kobe MSY_{pref} (1990–2018–SISIMP2021)



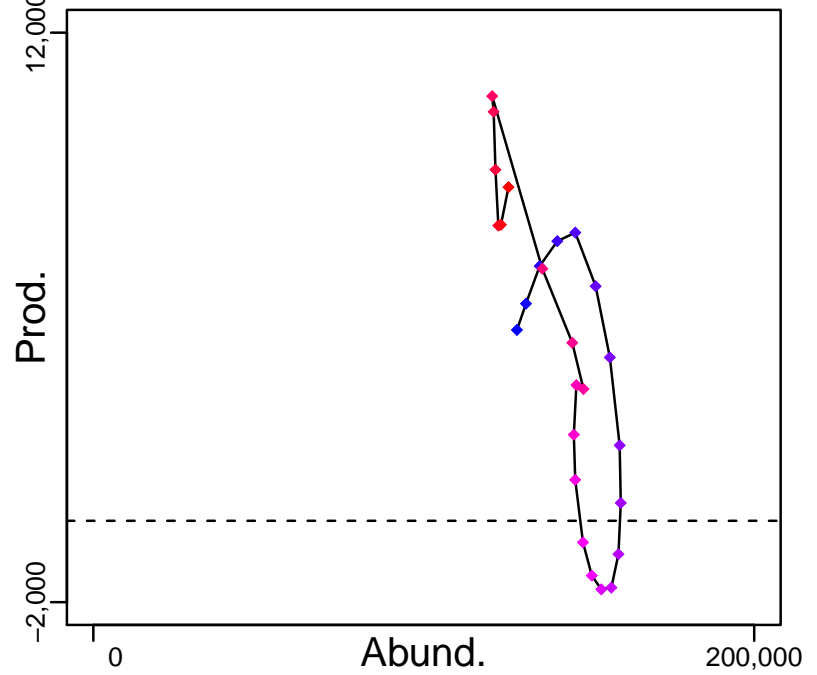
Kobe MGT_{pref} (1990–2018–SISIMP2021)



Spawner Recruit (1990–2018–SISIMP2021)



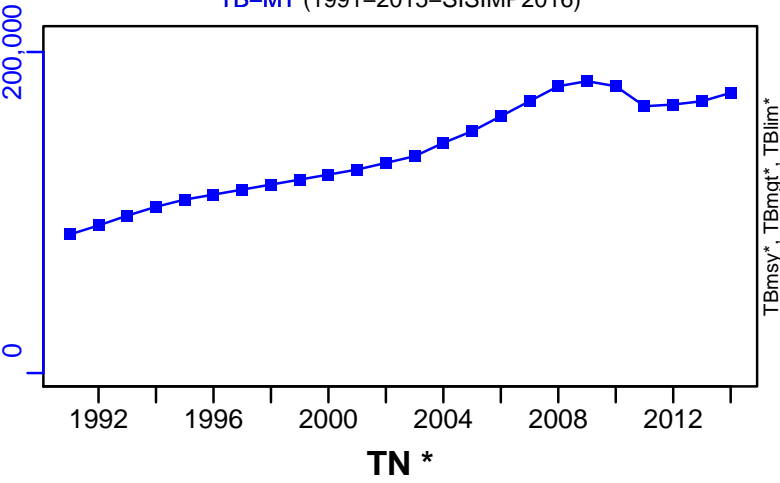
Production (1990–2018–SISIMP2021)



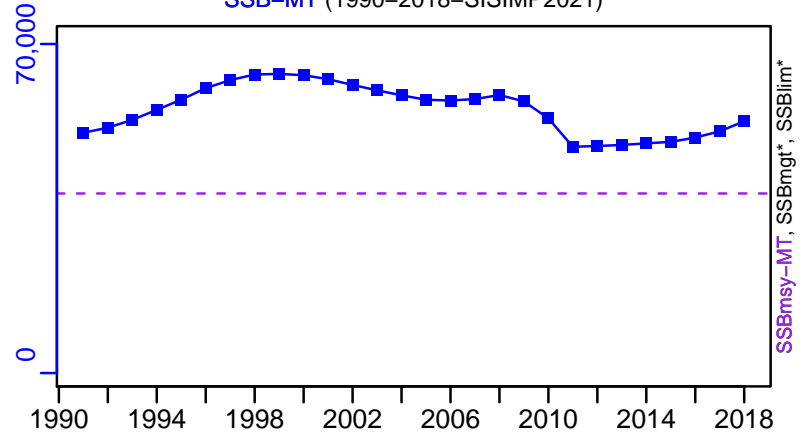
◆ Start Year ◆ End Year * No Data

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

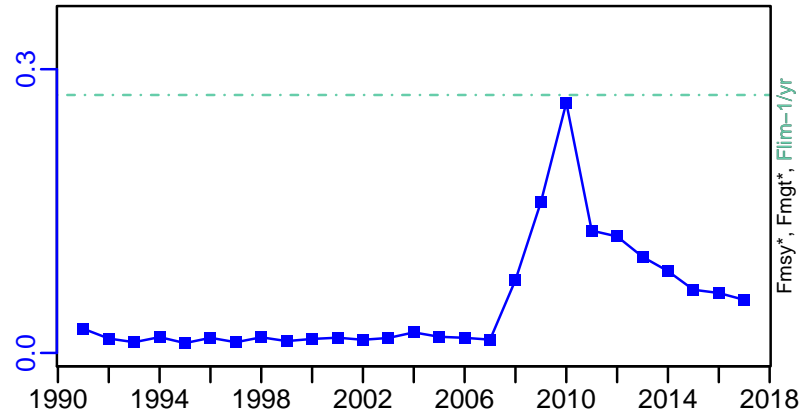
TB-MT (1991–2015–SISIMP2016)



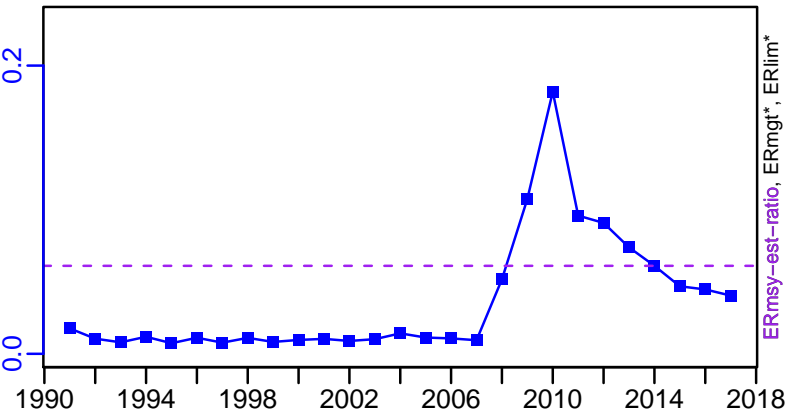
SSB-MT (1990–2018–SISIMP2021)



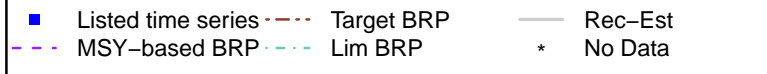
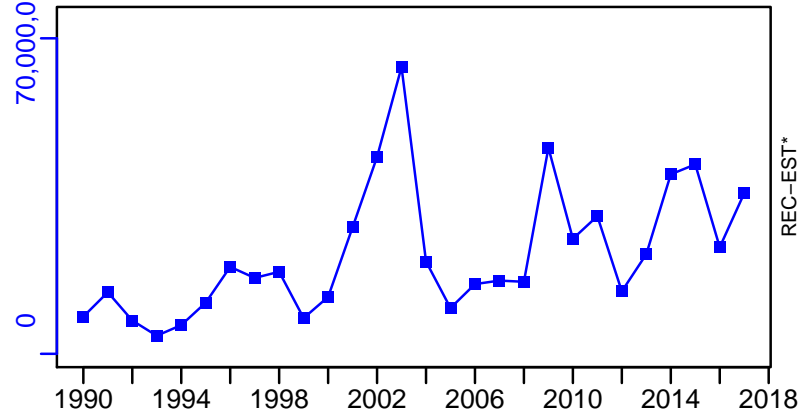
F-1/yr (1990–2018–SISIMP2021)



ER-calc-ratio (1990–2018–SISIMP2021)



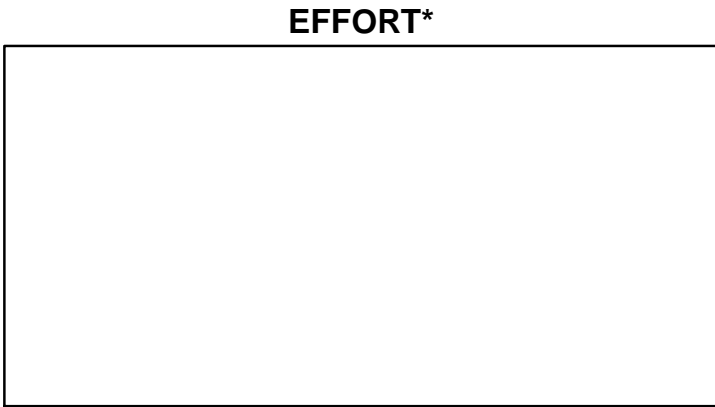
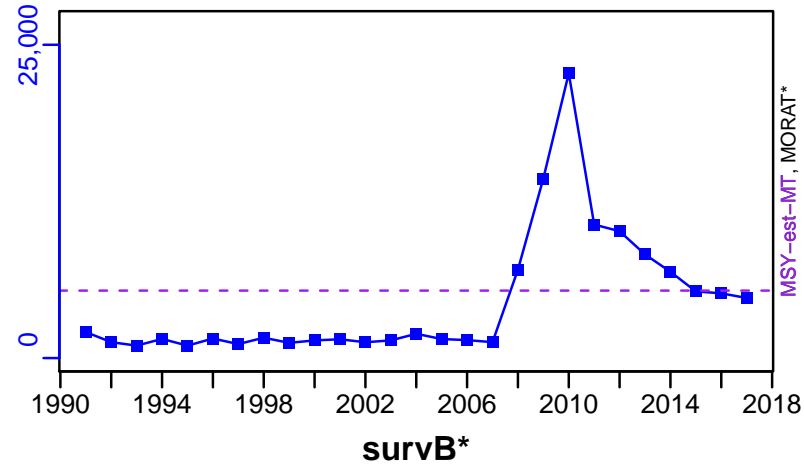
R-E00 (1990–2018–SISIMP2021)



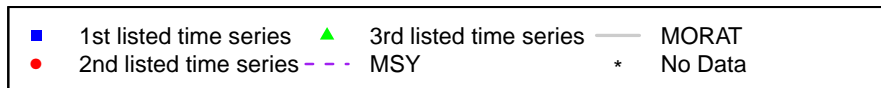
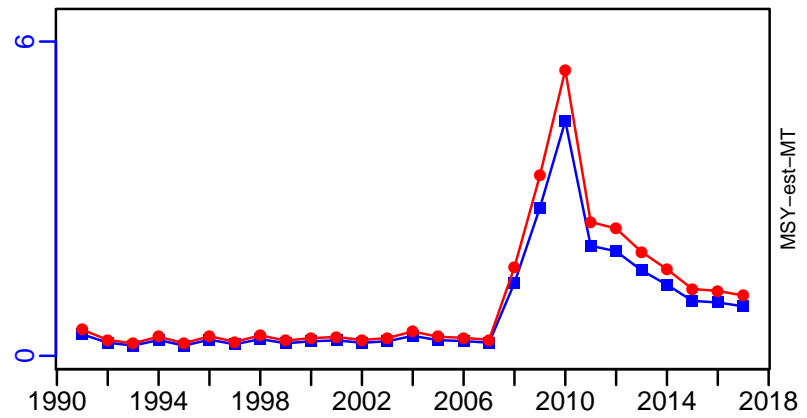
Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

TC-MT, TL*, RecC* (1990-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1990-2018-SISIMP2021)



Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

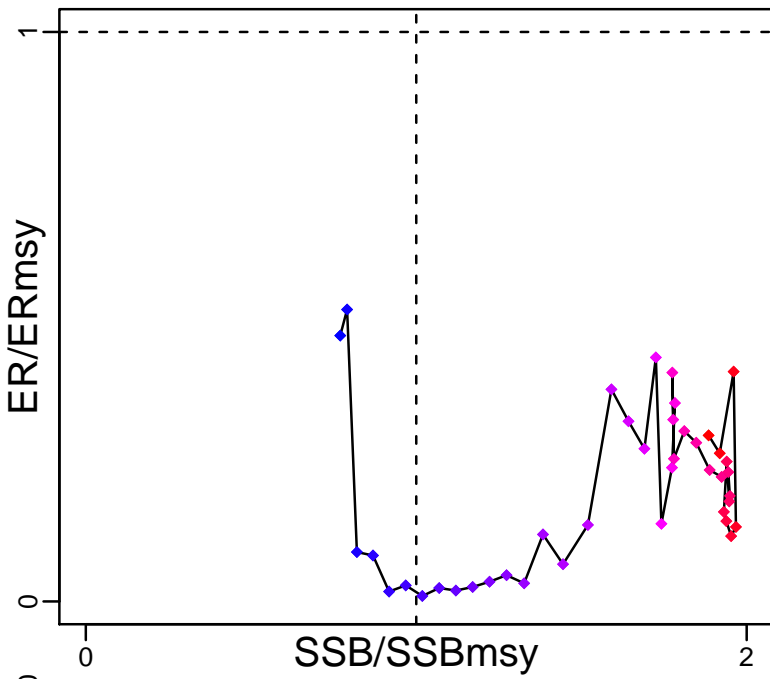
Metadata	
Scientific Name	Sebastes polyspinis
Current Assess ID	AFSC-NROCKBSAI-1974-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	57,636
Fmsy	Fmsy-pr-1/yr	2011	0.071
ERmsy	ERmsy-est-ratio	2018	0.064
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	0.07
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	9097
M	M-1/yr	2011	0.043
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.08
ERlim	-	-	-

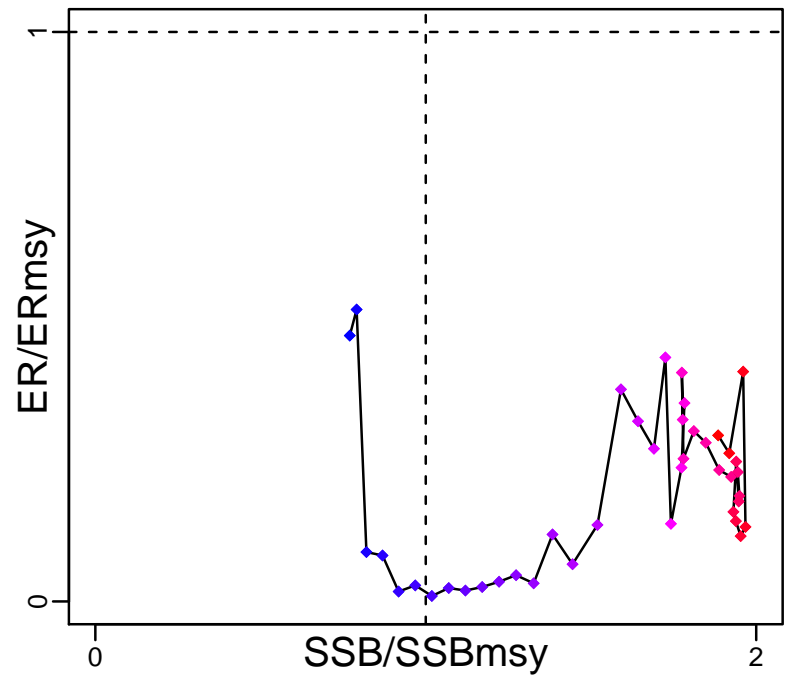
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	220,000	-	3+
SSB	SSB-MT	2018	108,630	-	-
TN	-	-	-	-	-
R	R-E00	2018	42,940,900	-	3
F	F-1/yr	2018	0.021	-	-
ER	ER-calc-ratio	2018	0.019	-	-
TC	TC-MT	2018	5000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.885		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.313		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.292		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.295		
ER/ERmgt	-	-	-		

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

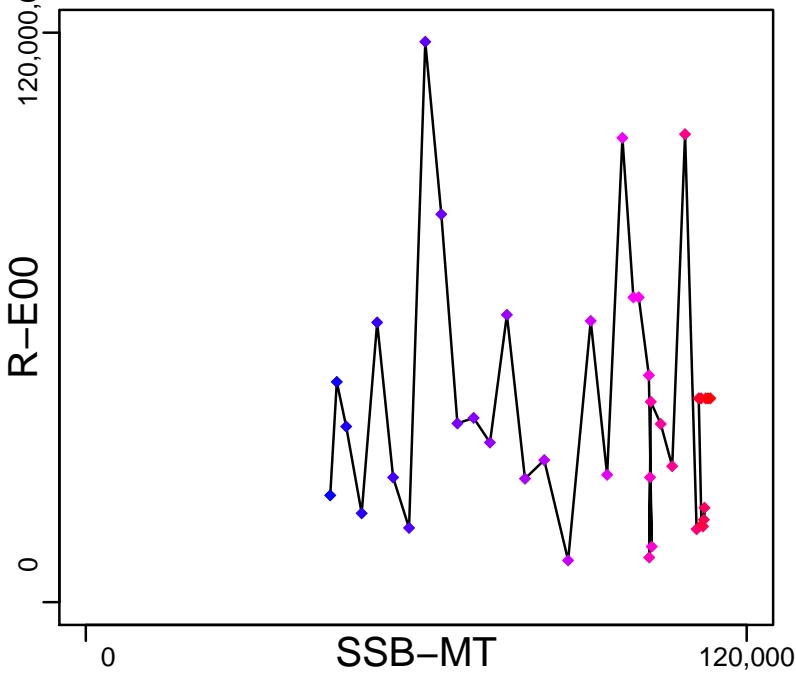
Kobe MSY_{pref} (1974–2018–SISIMP2021)



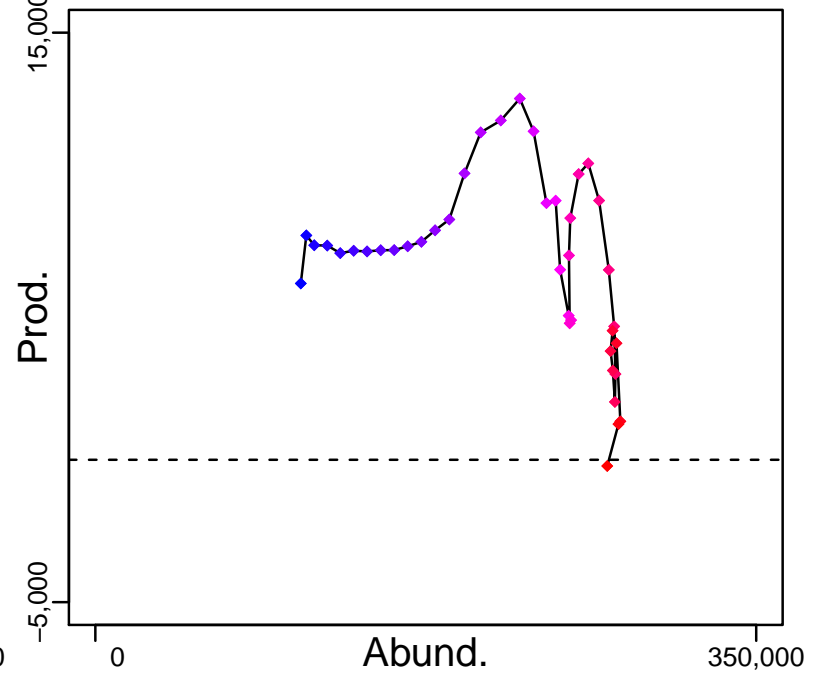
Kobe MGT_{pref} (1974–2018–SISIMP2021)



Spawner Recruit (1974–2018–SISIMP2021)



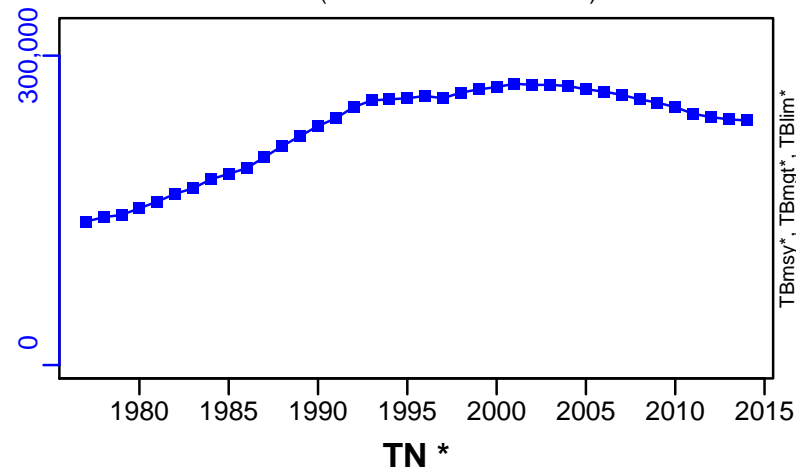
Production (1974–2018–SISIMP2021)



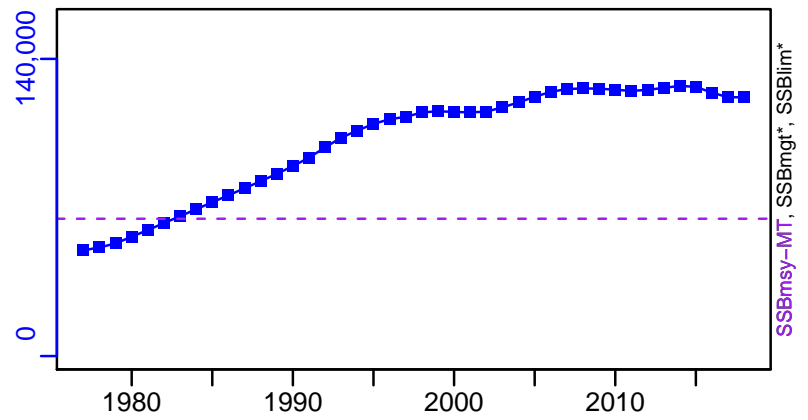
◆ Start Year ◆ End Year * No Data

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

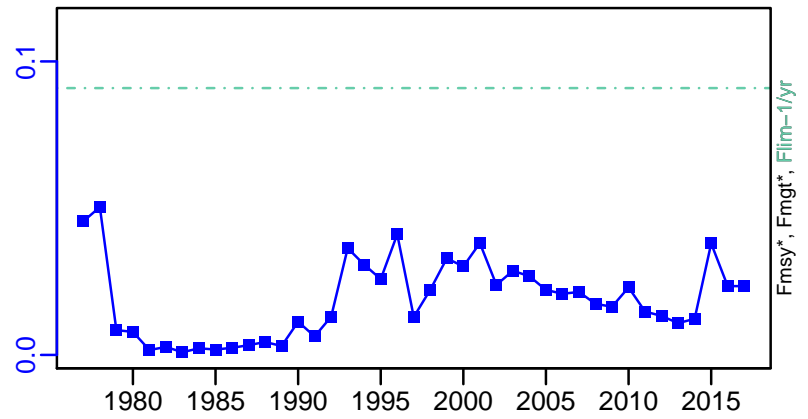
TB-MT (1977–2015–SISIMP2016)



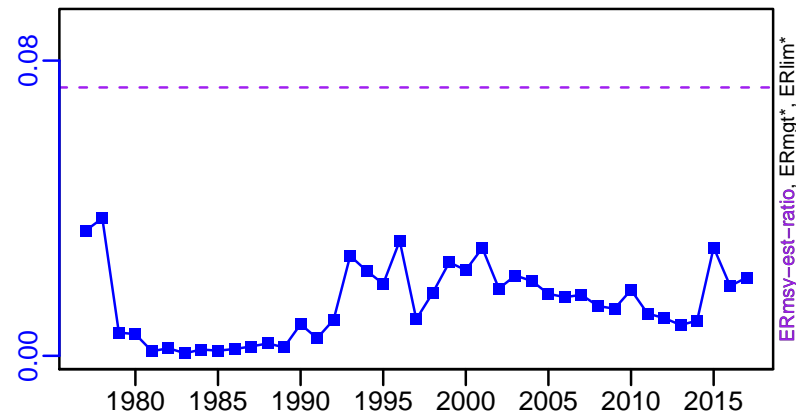
SSB-MT (1974–2018–SISIMP2021)



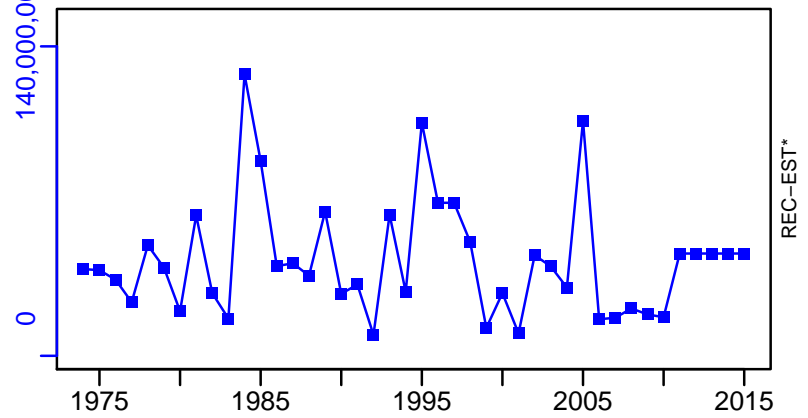
F-1/yr (1974–2018–SISIMP2021)



ER-calc-ratio (1974–2018–SISIMP2021)



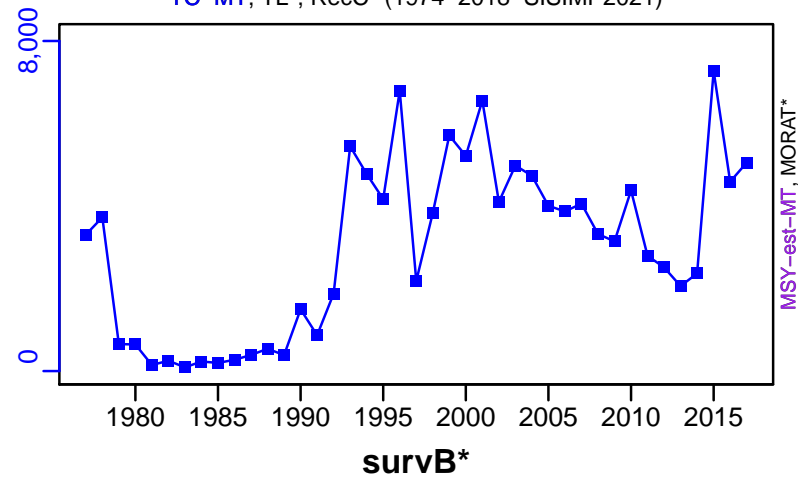
R-E00 (1974–2018–SISIMP2021)



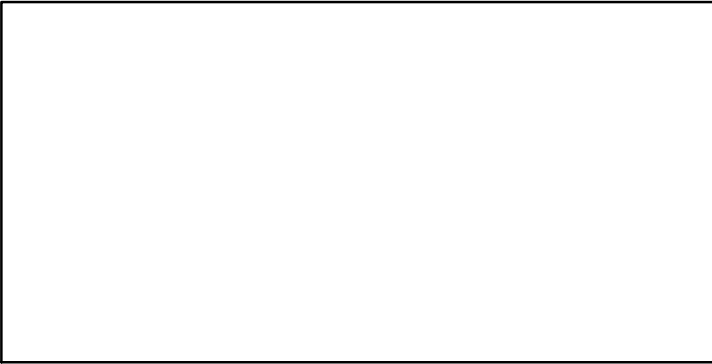
Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

TC-MT, TL*, RecC* (1974-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



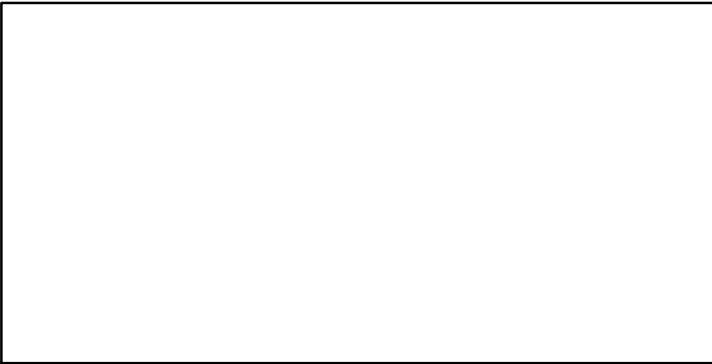
survB*



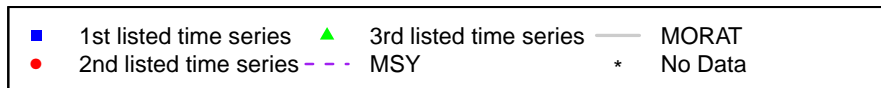
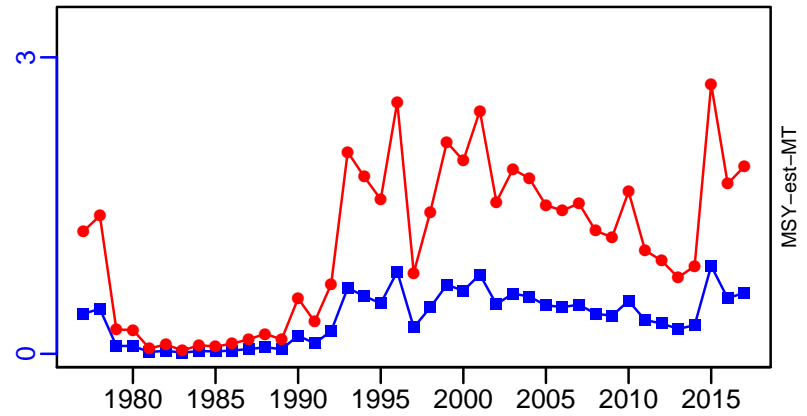
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1974-2018-SISIMP2021)



Northern rockfish Gulf of Alaska [NROCKGA]

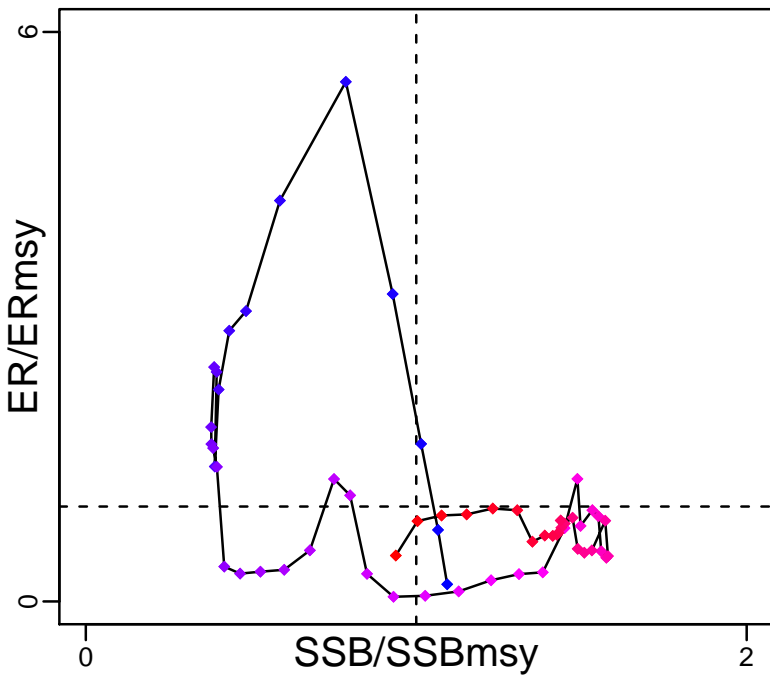
Metadata	
Scientific Name	Sebastes polyspinis
Current Assess ID	AFSC-NROCKGA-1959-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	64,270
SSBmsy	SSBmsy-MT	2017	24,485
Fmsy	Fmsy-pr-1/yr	2010	0.071
ERmsy	ERmsy-ratio	2010	0.094
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	6070
M	M-1/yr	2010	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.073
ERlim	-	-	-

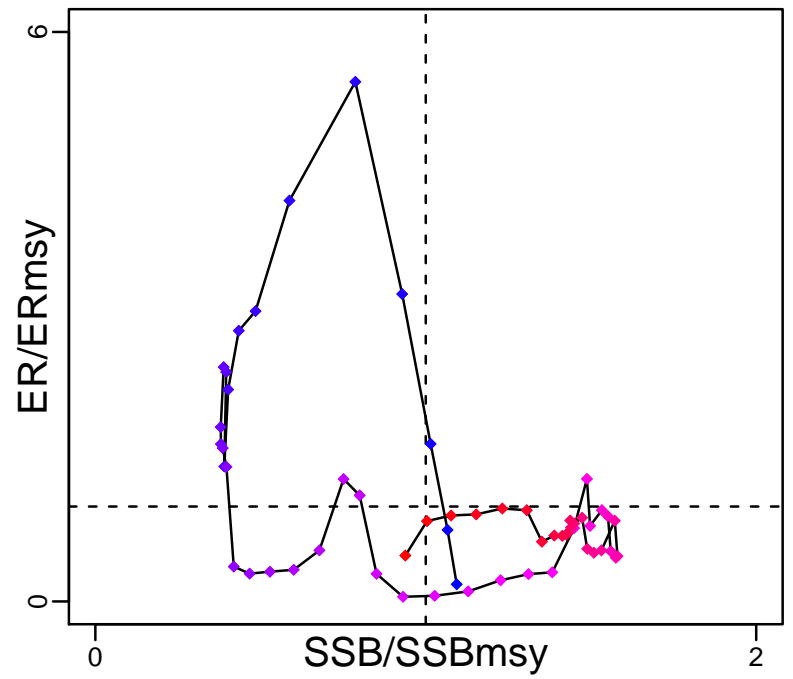
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	81,900	-	2+
SSB	SSB-MT	2018	39,819	-	-
TN	-	-	-	-	-
R	R-E00	2018	9,922,190	-	2
F	F-1/yr	2018	0.022	-	-
ER	ER-calc-ratio	2018	0.015	-	-
TC	TC-MT	2018	1836		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.603		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.204		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.596		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.366		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rockfish Gulf of Alaska [NROCKGA]

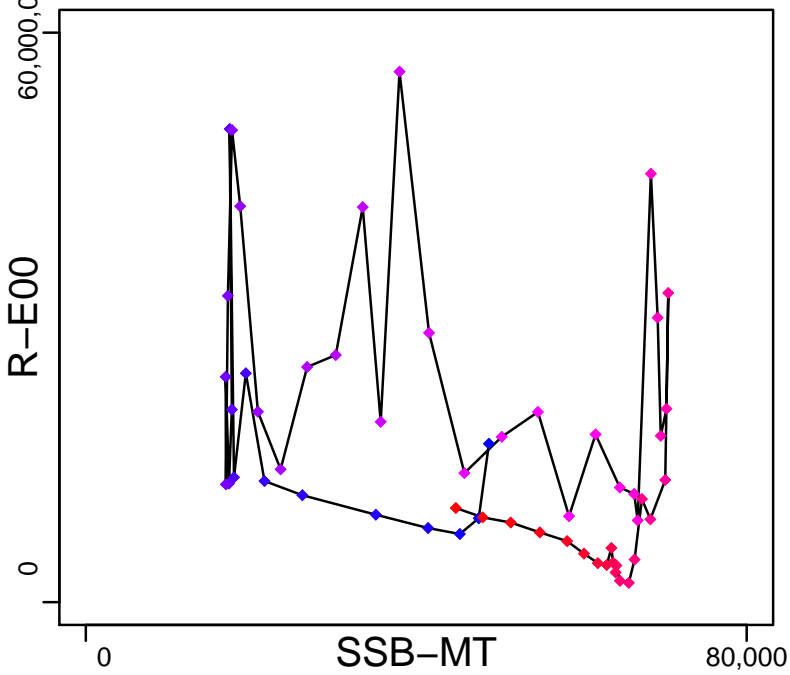
Kobe MSYpref (1959–2018–SISIMP2021)



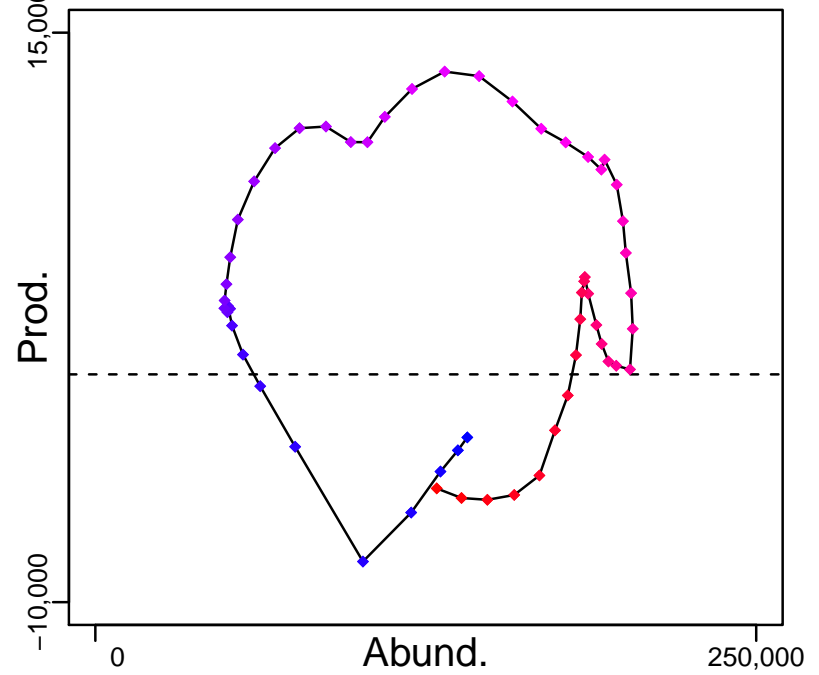
Kobe MGTpref (1959–2018–SISIMP2021)



Spawner Recruit (1959–2018–SISIMP2021)



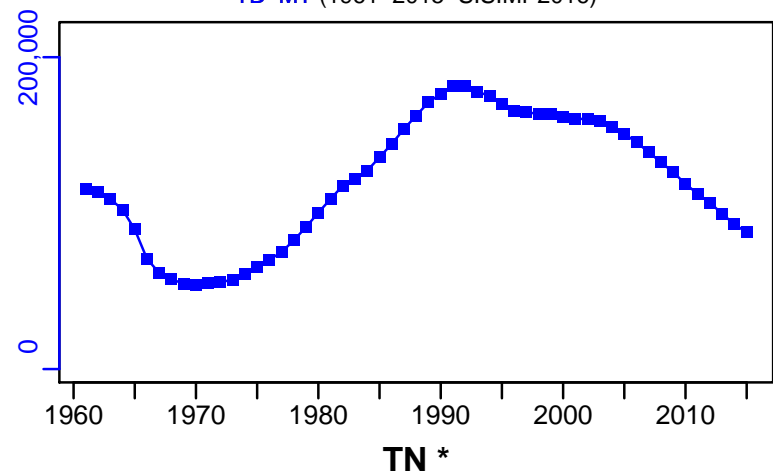
Production (1959–2018–SISIMP2021)



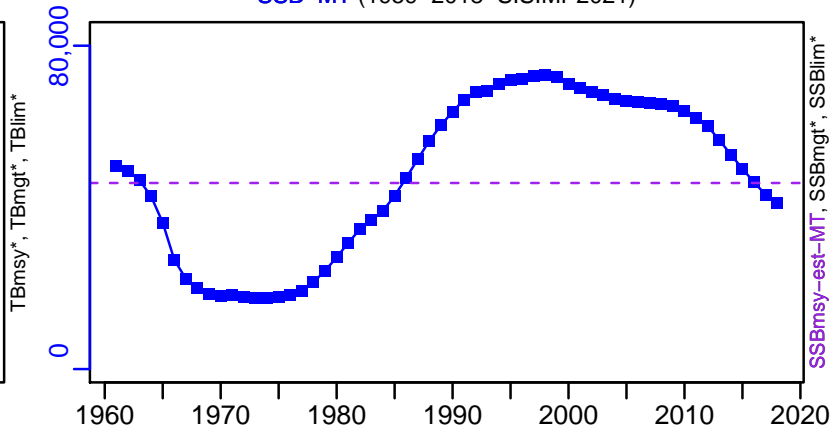
◆ Start Year ◆ End Year * No Data

Northern rockfish Gulf of Alaska [NROCKGA]

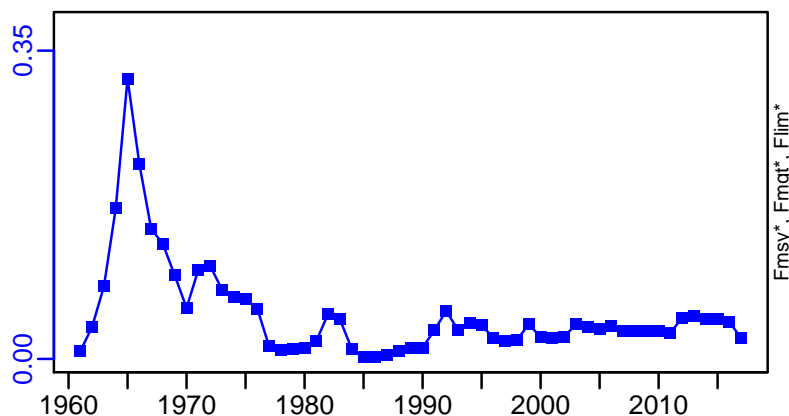
TB-MT (1961–2015–SISIMP2016)



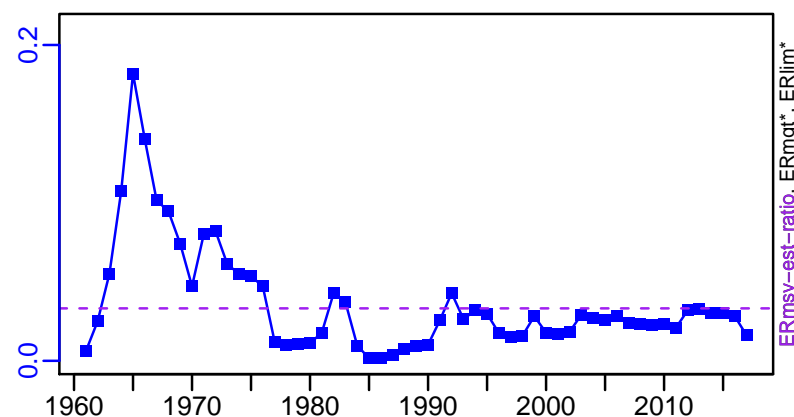
SSB-MT (1959–2018–SISIMP2021)



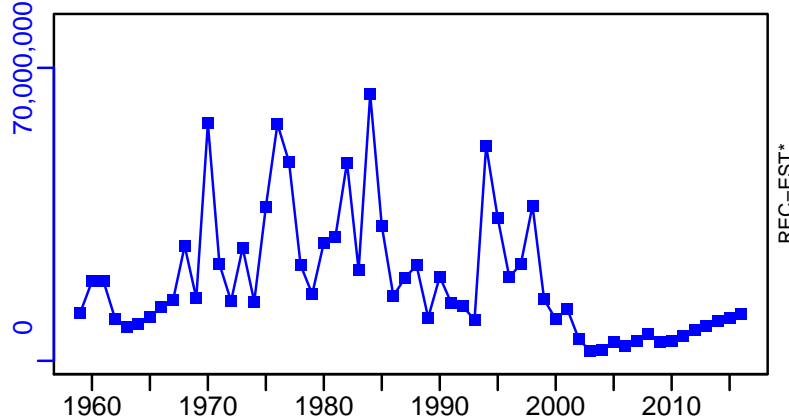
F-1/yr (1959–2018–SISIMP2021)



ER-calc-ratio (1959–2018–SISIMP2021)



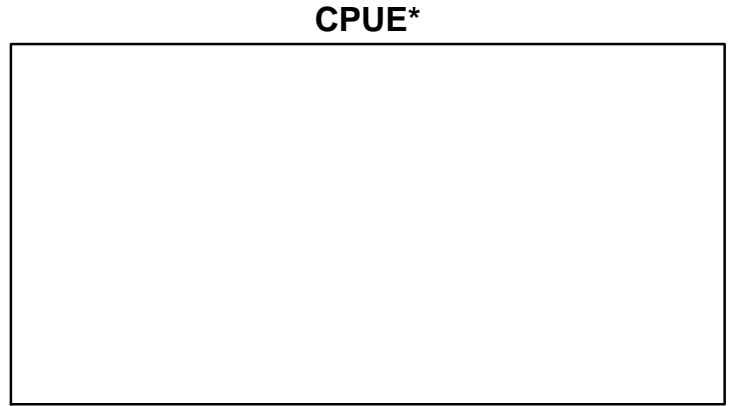
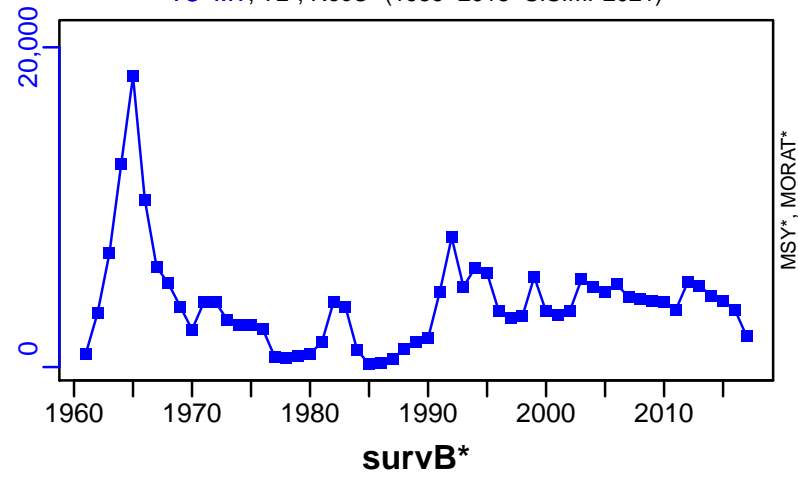
R-E00 (1959–2018–SISIMP2021)



Northern rockfish Gulf of Alaska [NROCKGA]

TC-MT, TL*, RecC* (1959-2018-SISIMP2021)

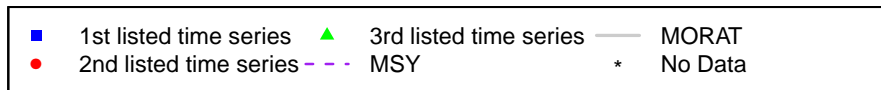
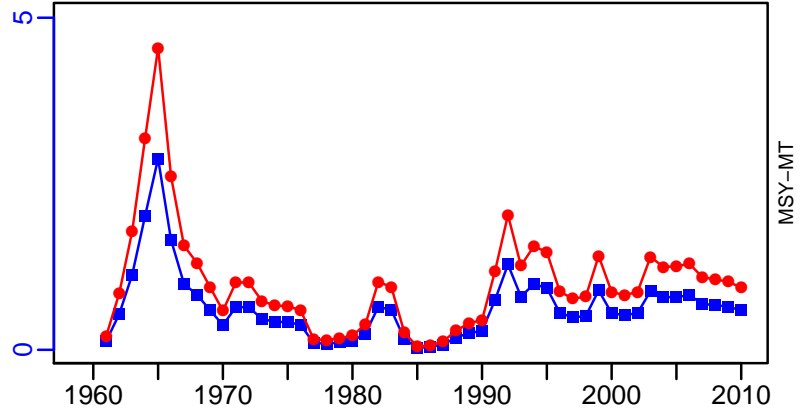
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1959-2010-STACHURA)



Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

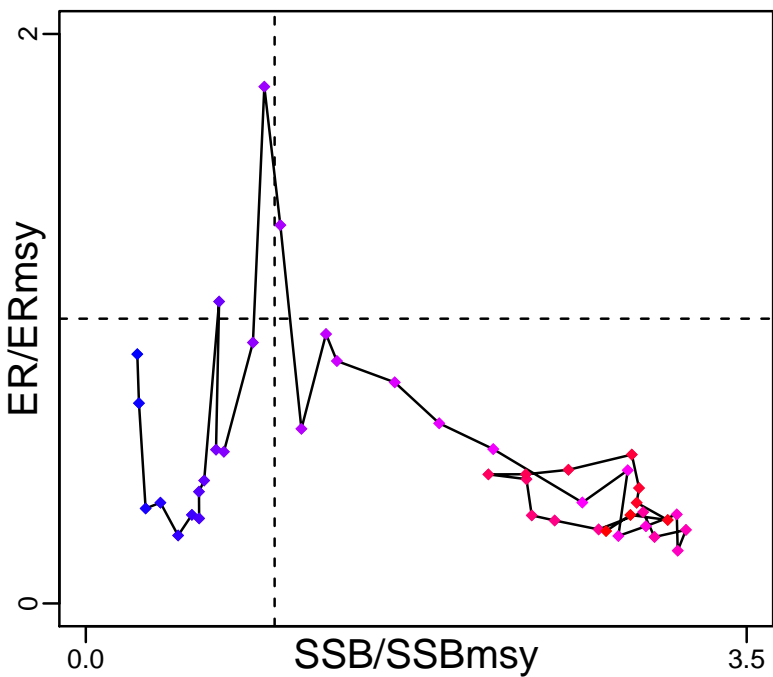
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEEBSAI-1974-2018-SISIMP2021
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2018, 2012, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	186,000
Fmsy	Fmsy-pr-1/yr	2012	0.164
ERmsy	ERmsy-est-ratio	2018	0.104
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	259,310
M	M-1/yr	2012	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.194
ERlim	-	-	-

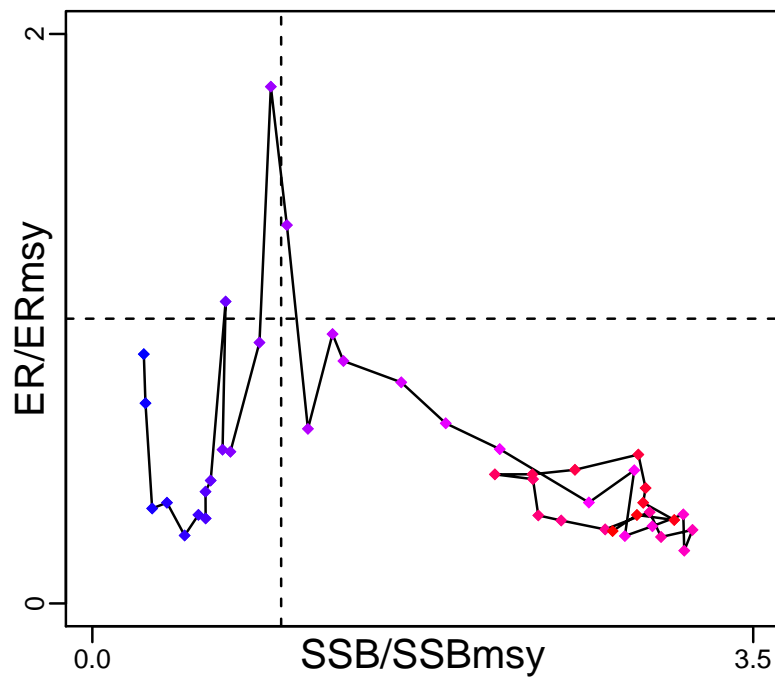
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,270,000	-	2+
SSB	SSB-MT	2018	458,572	-	-
TN	-	-	-	-	-
R	R-E00	2018	1,034,960	-	1
F	F-1/yr	2018	0.051	-	-
ER	ER-calc-ratio	2018	0.027	-	-
TC	TC-MT	2018	35,272		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.465		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2012	0.366		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.254		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

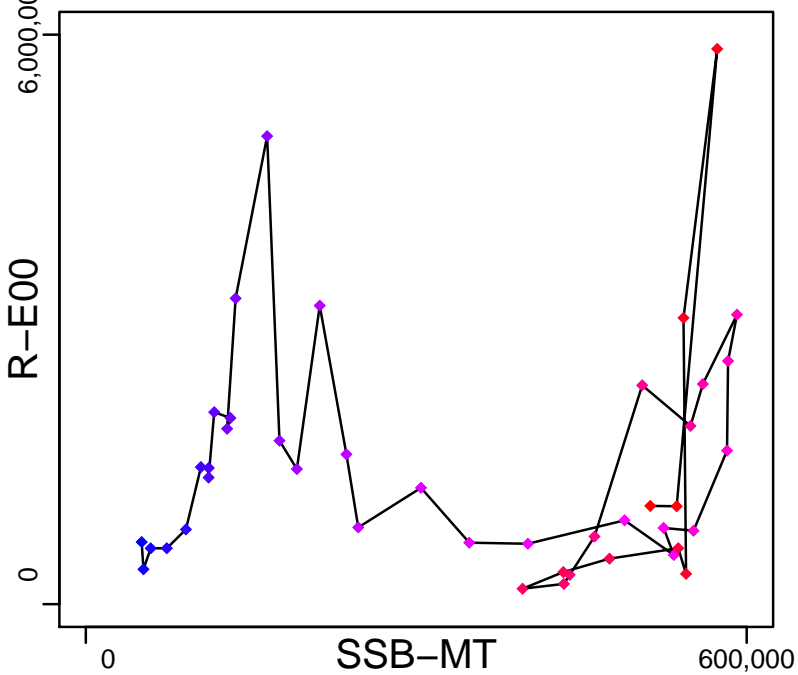
Kobe MSYpref (1974–2018–SISIMP2021)



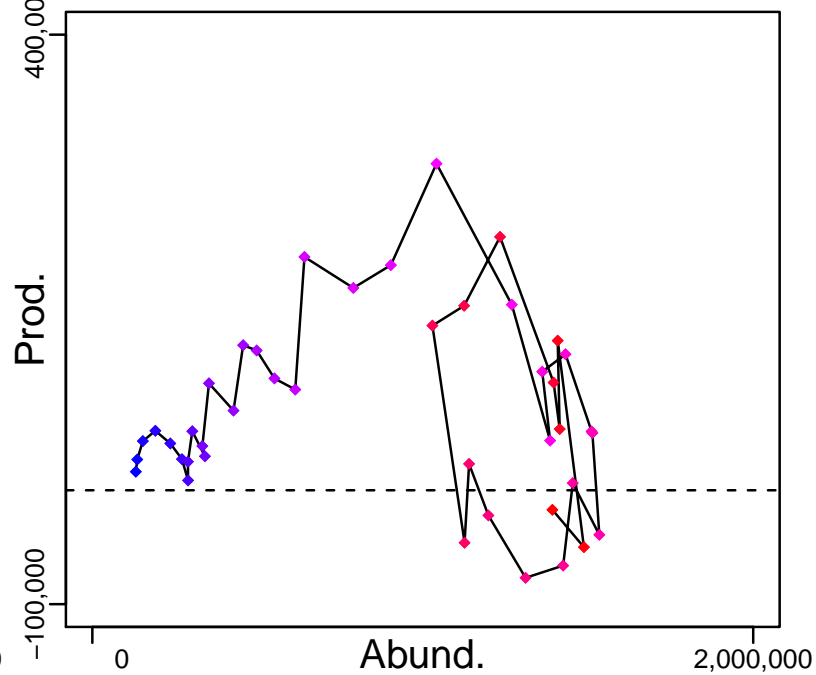
Kobe MGTpref (1974–2018–SISIMP2021)



Spawner Recruit (1974–2018–SISIMP2021)



Production (1974–2018–SISIMP2021)

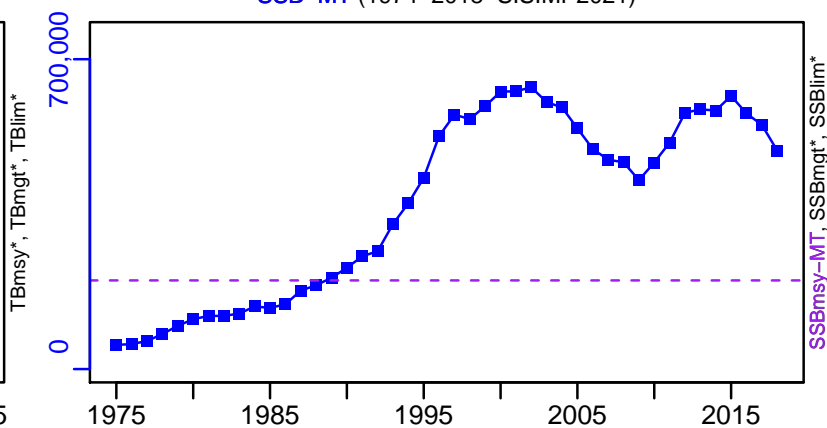
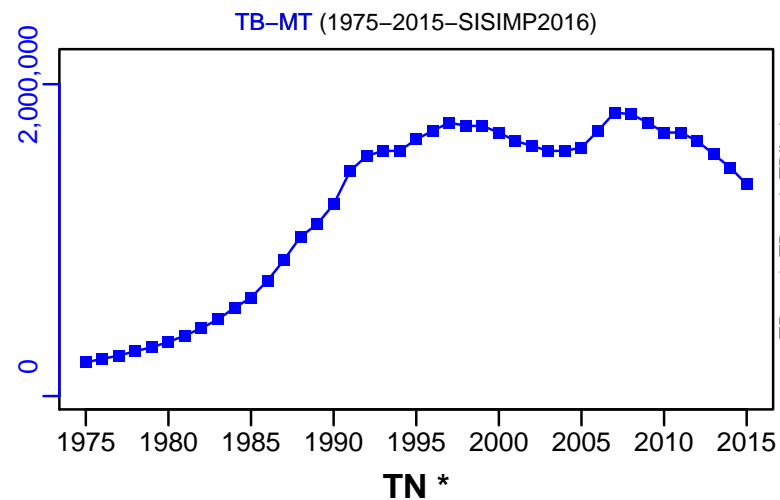


◆ Start Year ◆ End Year * No Data

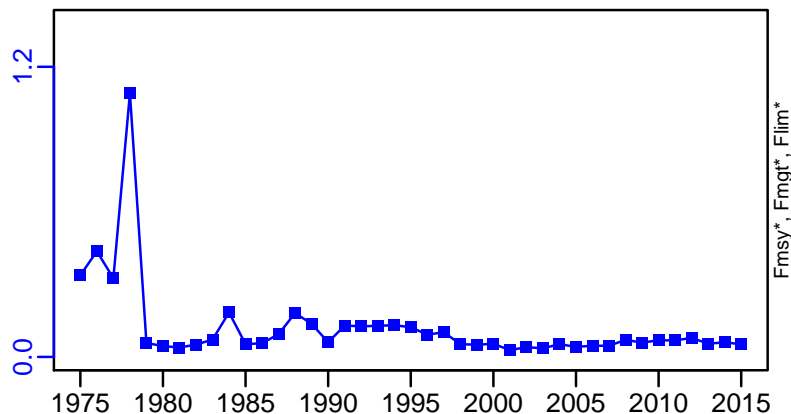
Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

TB-MT (1975–2015–SISIMP2016)

SSB-MT (1974–2018–SISIMP2021)

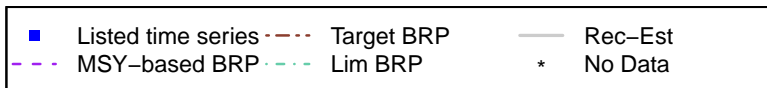
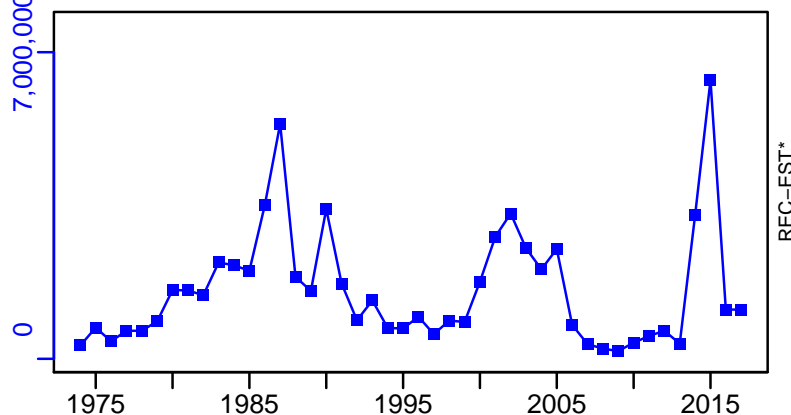
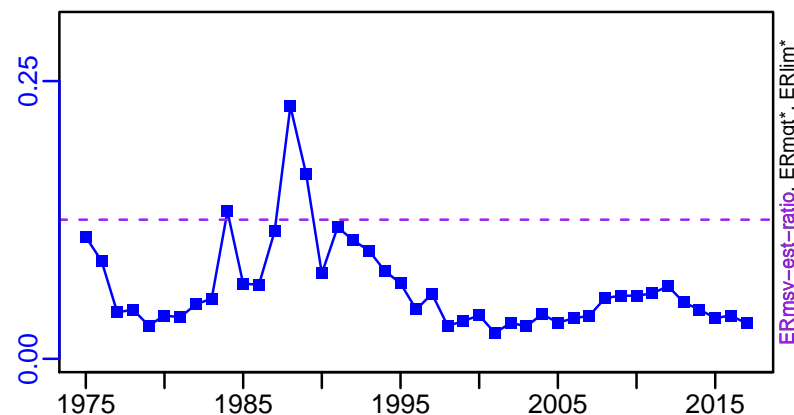


F-1/yr (1975–2015–SISIMP2016)



ER-calc-ratio (1974–2018–SISIMP2021)

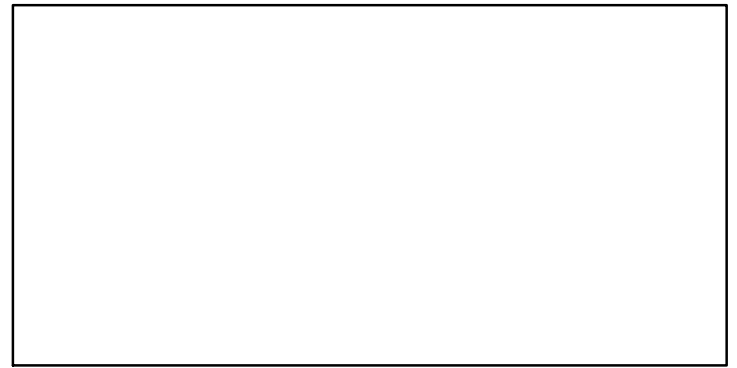
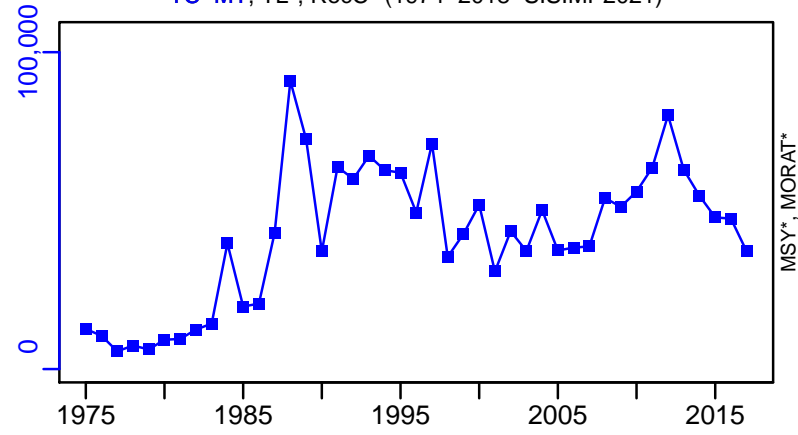
R-E00 (1974–2018–SISIMP2021)



Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

TC-MT, TL*, RecC* (1974-2018-SISIMP2021)

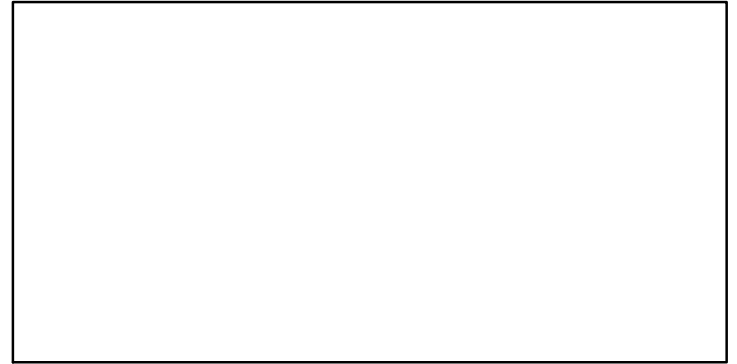
TAC*, Cpair*, Cadv*



survB*



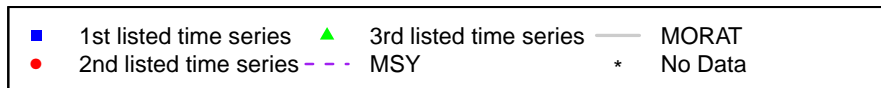
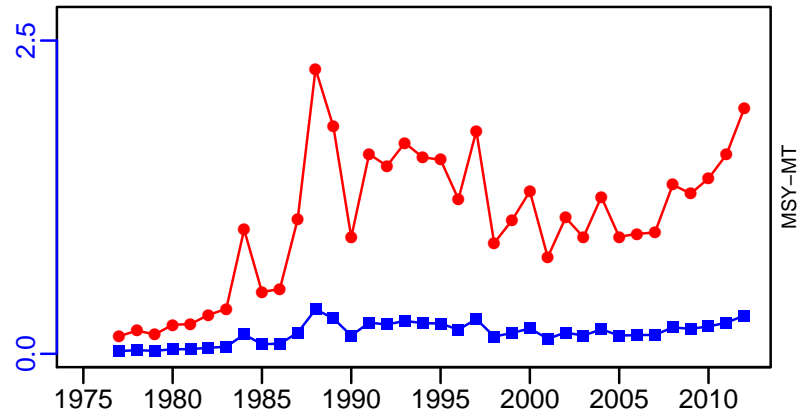
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2012-HIVELY)



Northern rock sole Gulf of Alaska [NRSOLEGA]

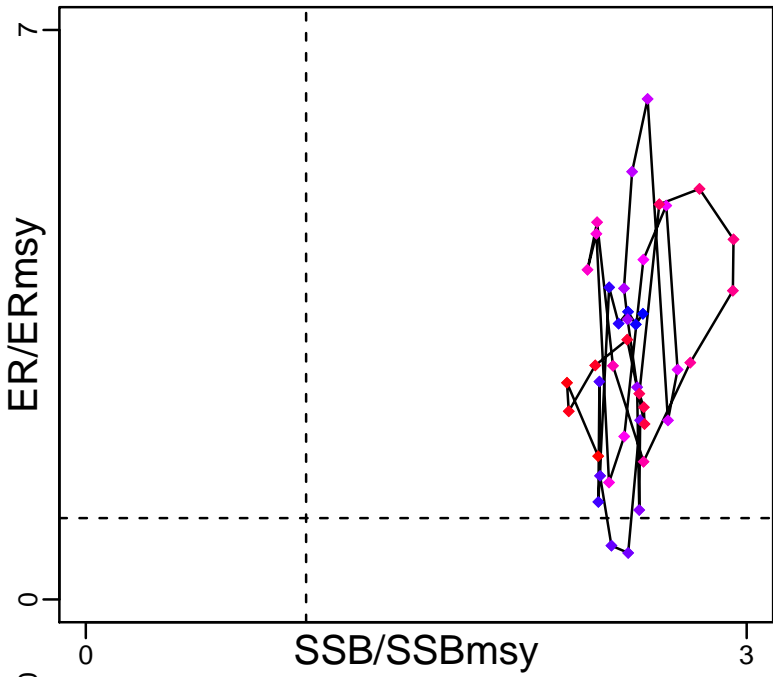
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEGA-1977-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	17,985
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2018	0.006
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	259
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.462
ERlim	-	-	-

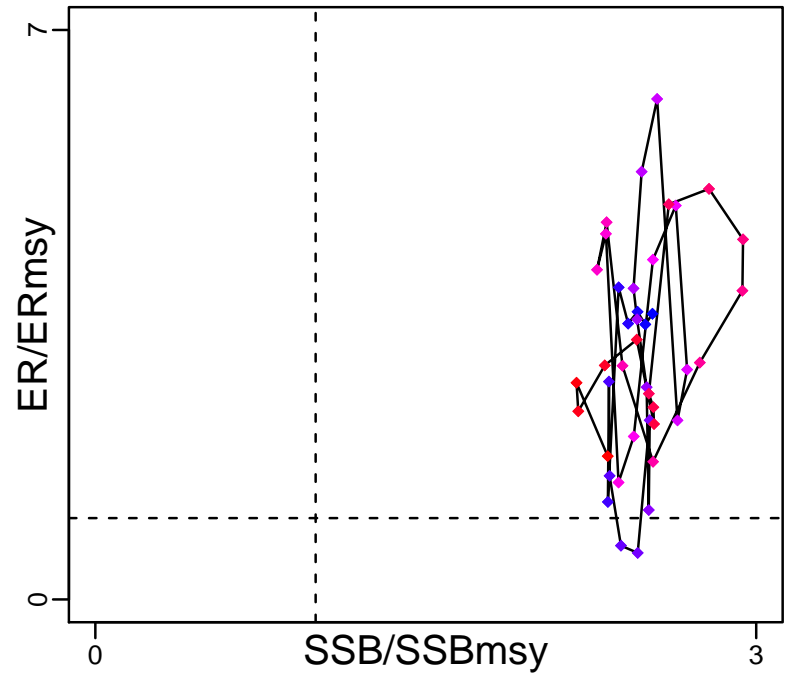
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	75,600	-	3+
SSB	SSB-MT	2018	44,662	-	-
TN	-	-	-	-	-
R	R-E00	2018	127,100,400	-	0
F	F-1/yr	2018	0.023	-	-
ER	ER-calc-ratio	2018	0.011	-	-
TC	TC-MT	2018	1059		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	2.483		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	1.761		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rock sole Gulf of Alaska [NRSOLEGA]

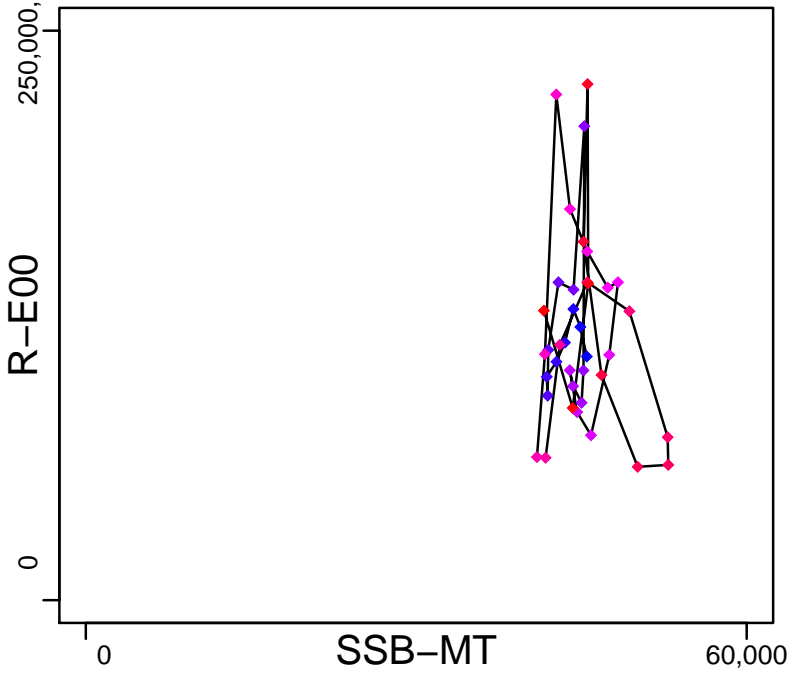
Kobe MSYpref (1977–2018–SISIMP2021)



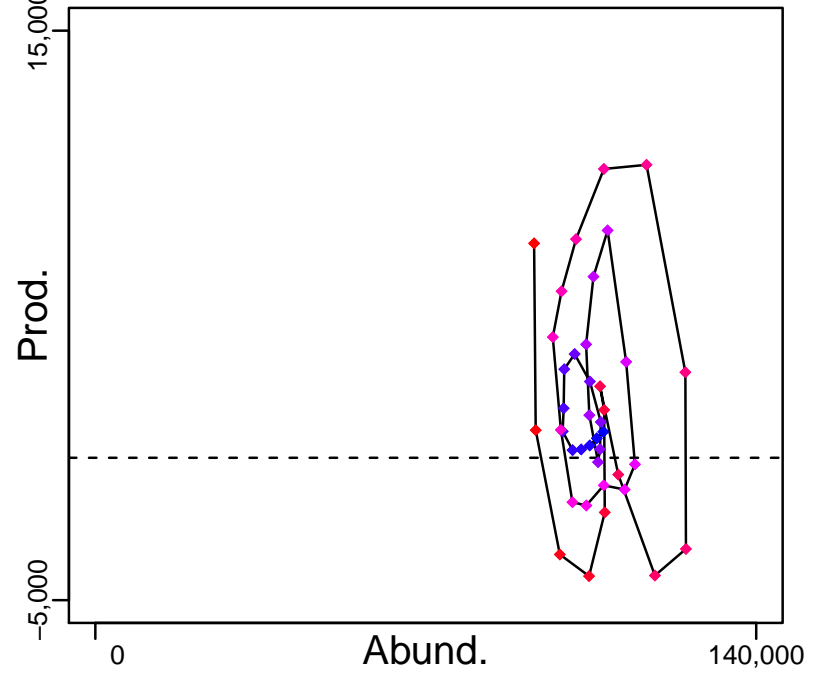
Kobe MGTpref (1977–2018–SISIMP2021)



Spawner Recruit (1977–2018–SISIMP2021)



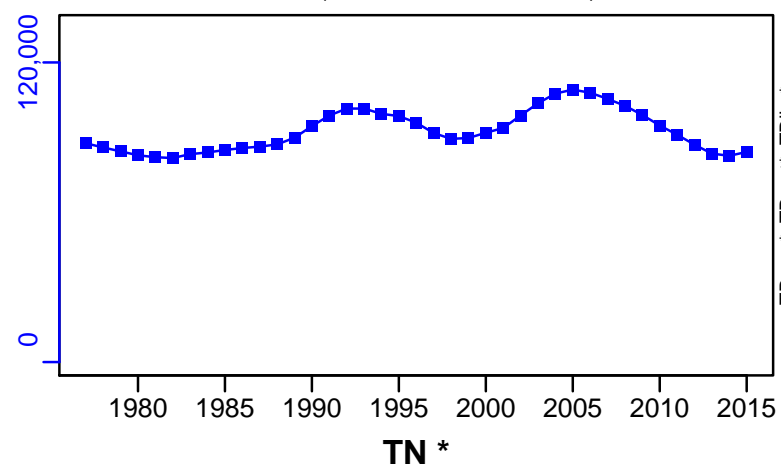
Production (1977–2018–SISIMP2021)



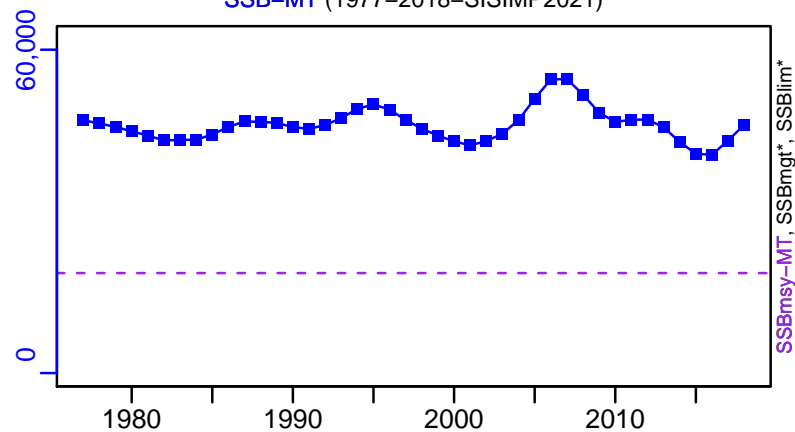
◆ Start Year ◆ End Year * No Data

Northern rock sole Gulf of Alaska [NRSOLEGA]

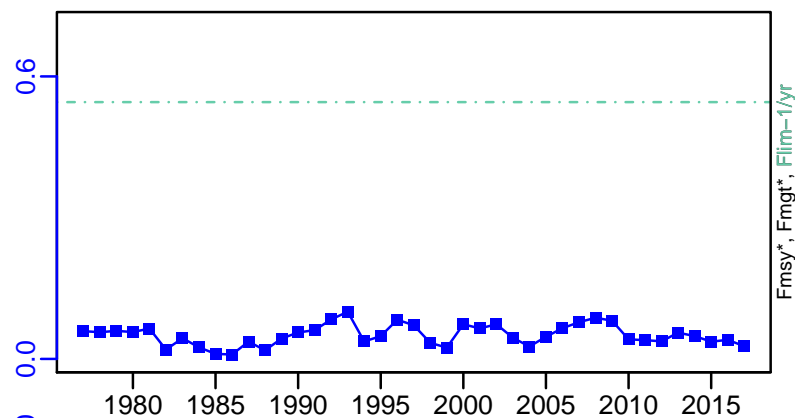
TB-MT (1977-2015-SISIMP2016)



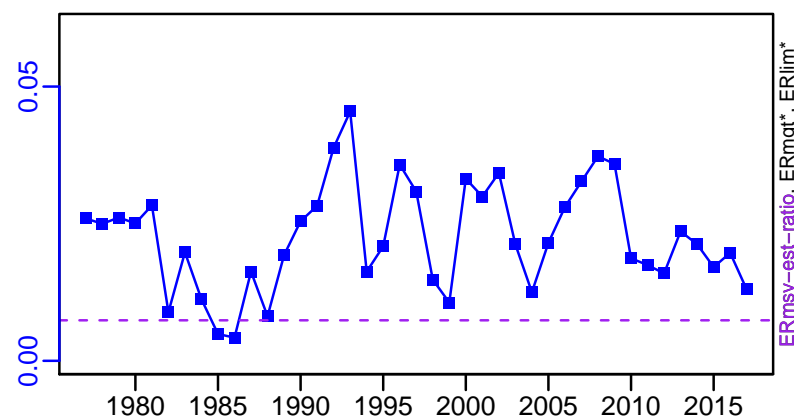
SSB-MT (1977-2018-SISIMP2021)



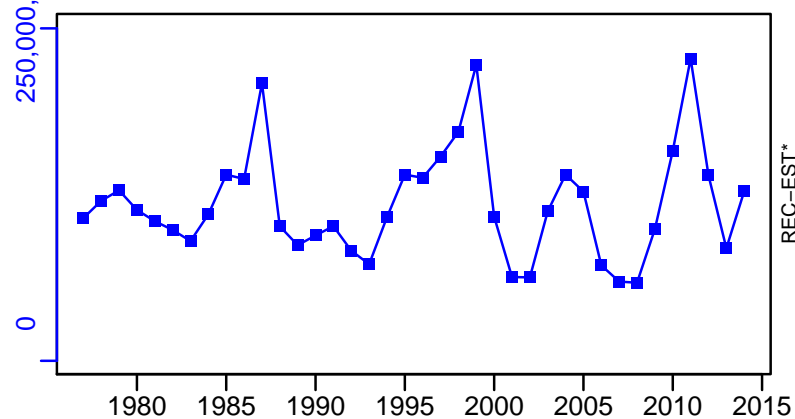
F-1/yr (1977-2018-SISIMP2021)



ER-calc-ratio (1977-2018-SISIMP2021)

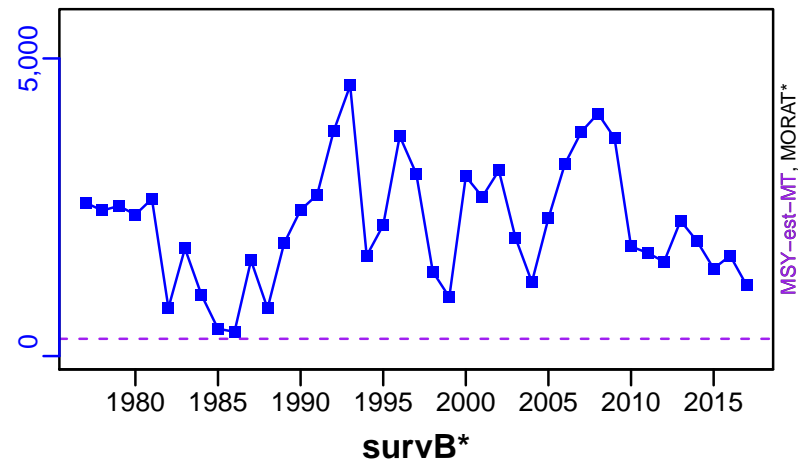


R-E00 (1977-2018-SISIMP2021)



Northern rock sole Gulf of Alaska [NRSOLEGA]

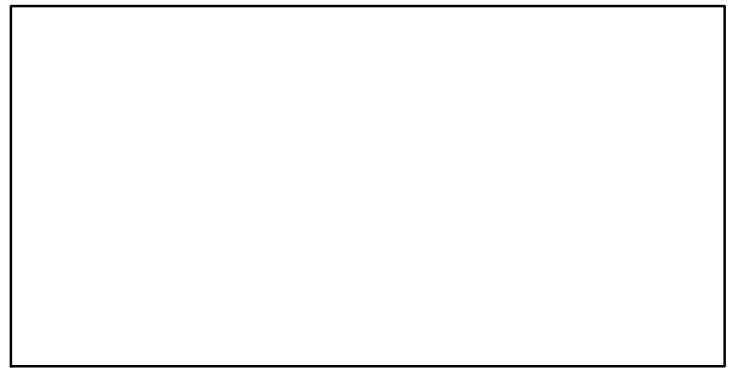
TC-MT, TL*, RecC* (1977-2018-SISIMP2021)



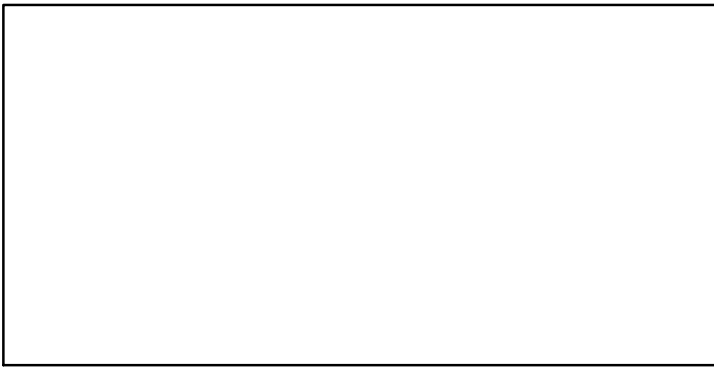
TAC*, Cpair*, Cadv*



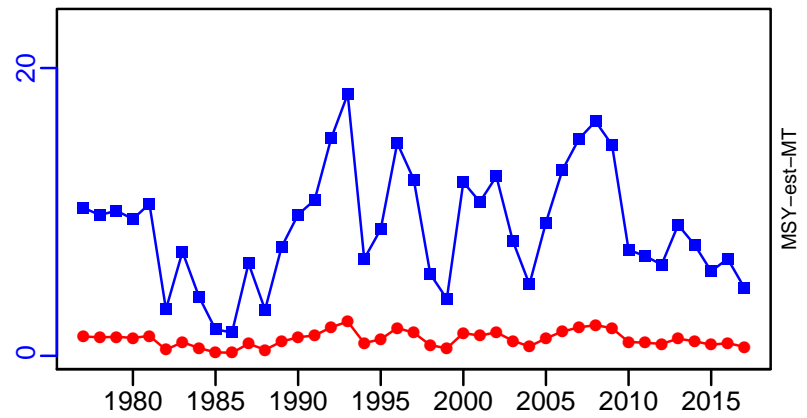
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2018-SISIMP2021)



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

Pacific cod Aleutian Islands [PCODAI]

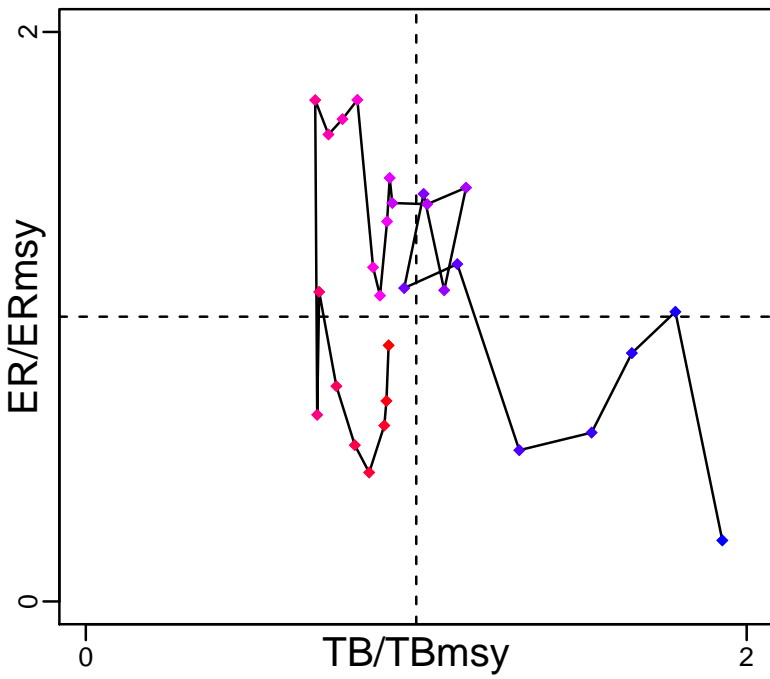
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODAI-1991-2018-SISIMP2021
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2018	88,063
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2018	0.269
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	23,732
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

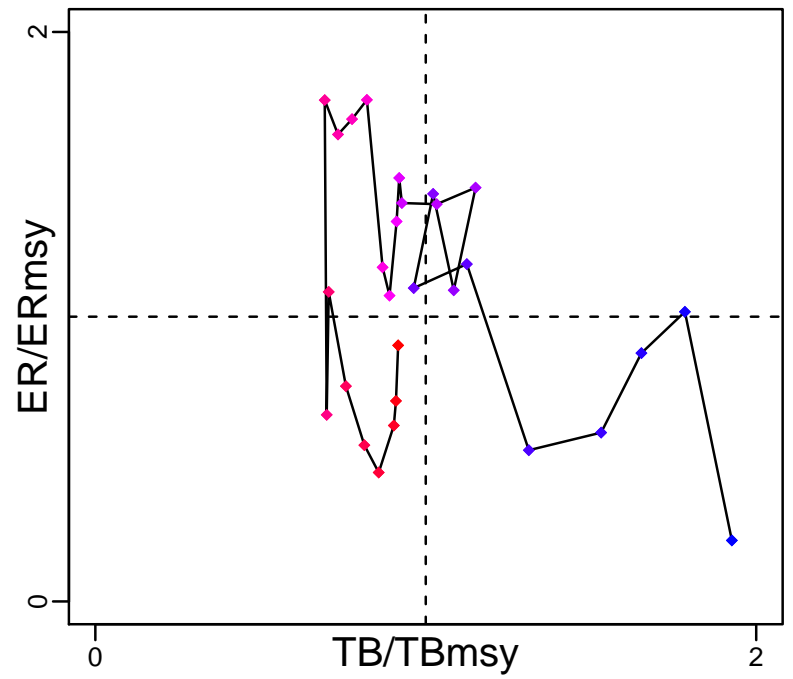
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	80,696	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.242	-	-
TC	TC-MT	2018	19,558		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2018	0.916		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.899		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Aleutian Islands [PCODAI]

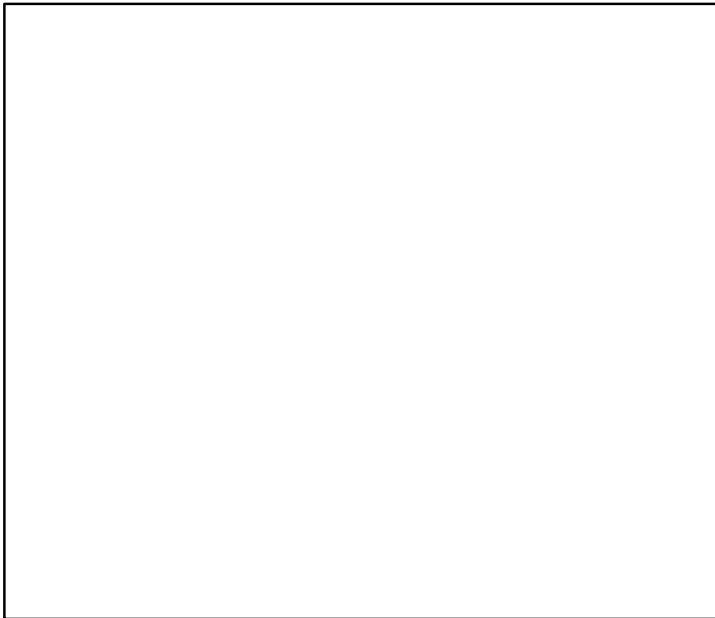
Kobe MSY_{pref} (1991–2018–SISIMP2021)



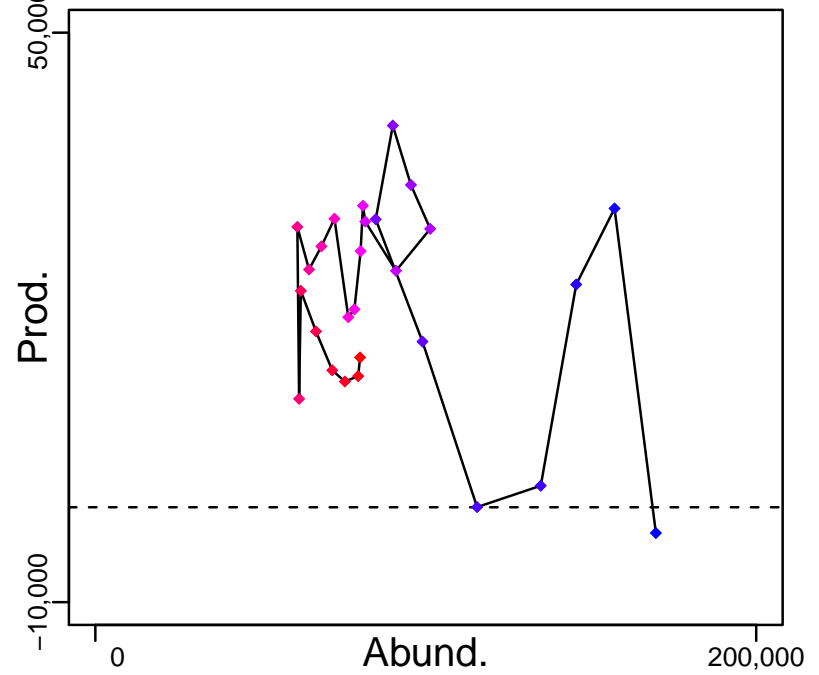
Kobe MGT_{pref} (1991–2018–SISIMP2021)



Spawner Recruit*



Production (1991–2018–SISIMP2021)

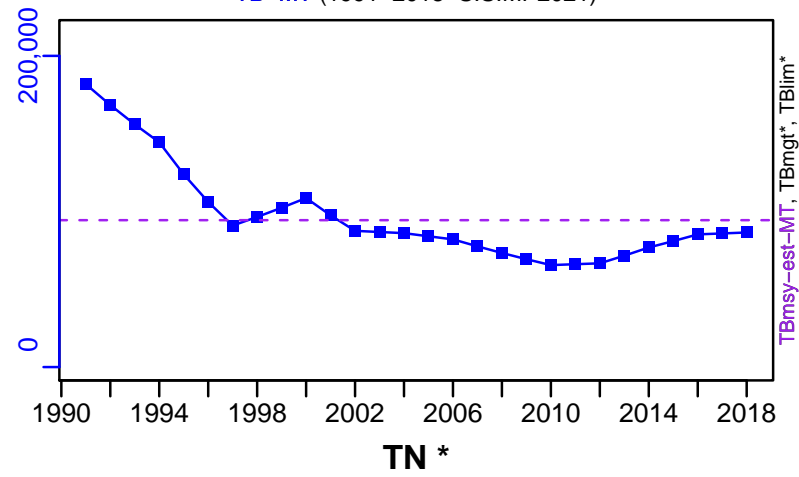


◆ Start Year ◆ End Year * No Data

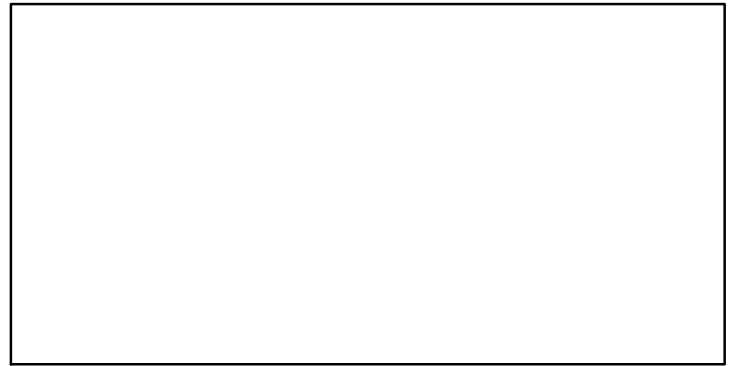
Pacific cod Aleutian Islands [PCODAI]

TB-MT (1991–2018–SISIMP2021)

SSB*

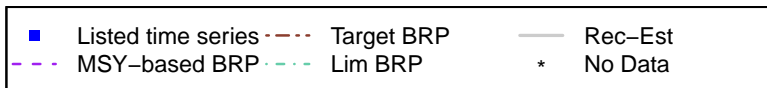
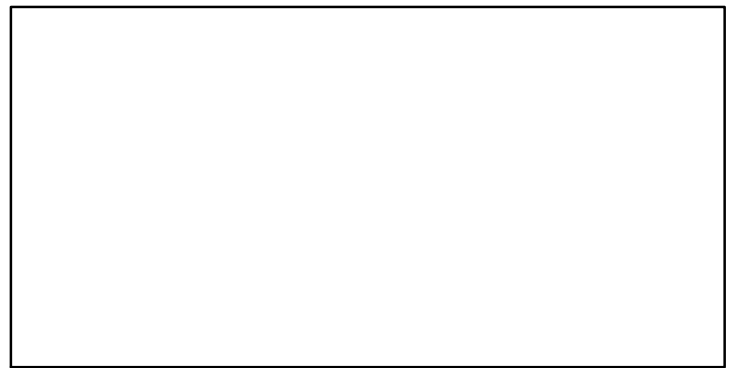
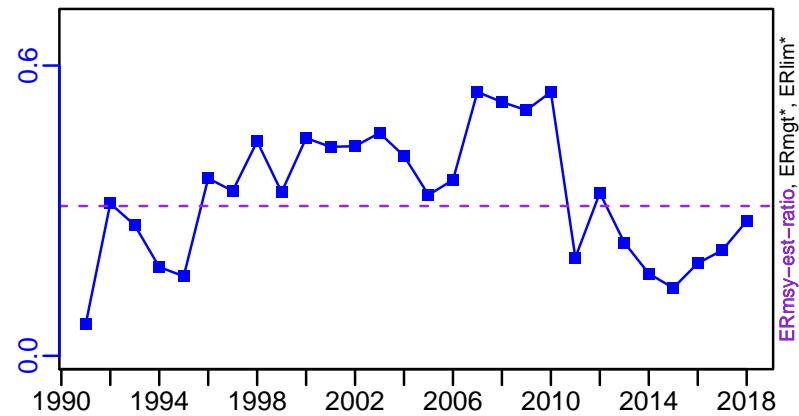


F*



ER-calc-ratio (1991–2018–SISIMP2021)

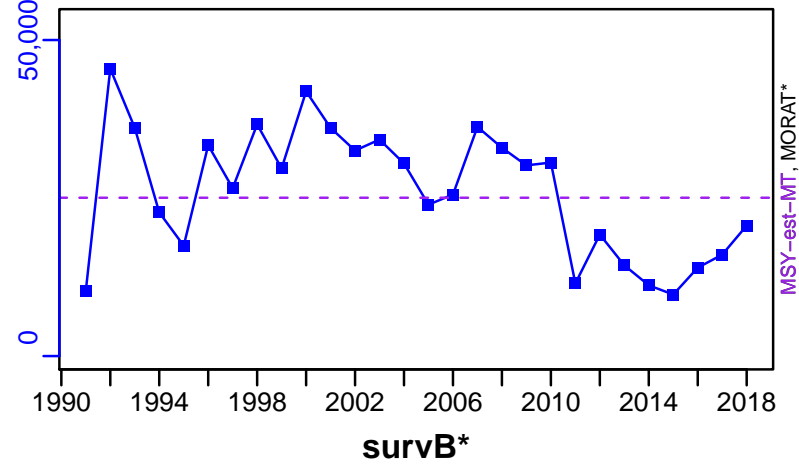
Recruits*



Pacific cod Aleutian Islands [PCODAI]

TC-MT, TL*, RecC* (1991-2018-SISIMP2021)

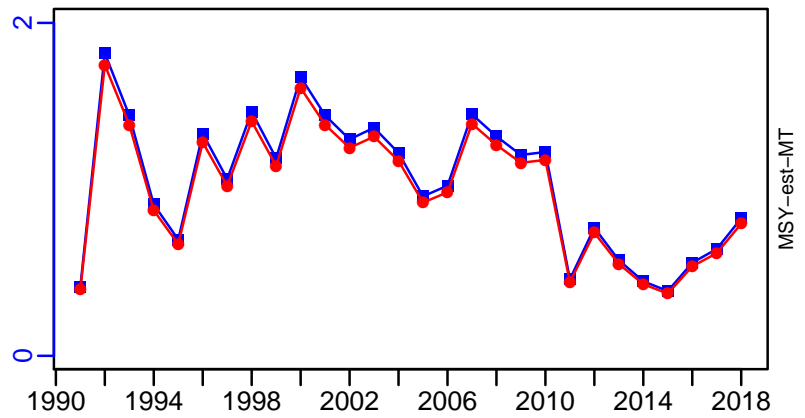
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1991-2018-SISIMP2021)



Pacific cod Bering Sea [PCODBS]

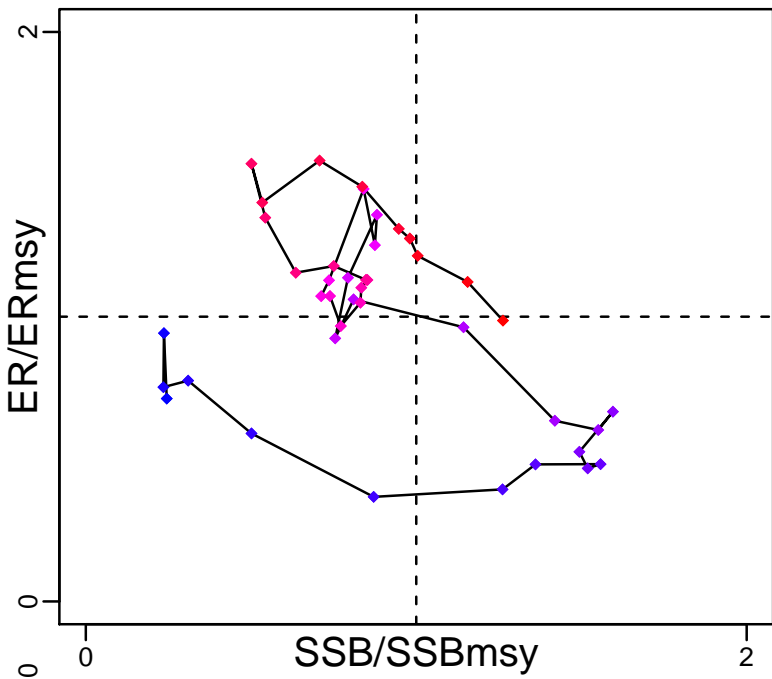
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODBS-1977-2018-SISIMP2021
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	230,000
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2018	0.229
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	190,996
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.474
ERlim	-	-	-

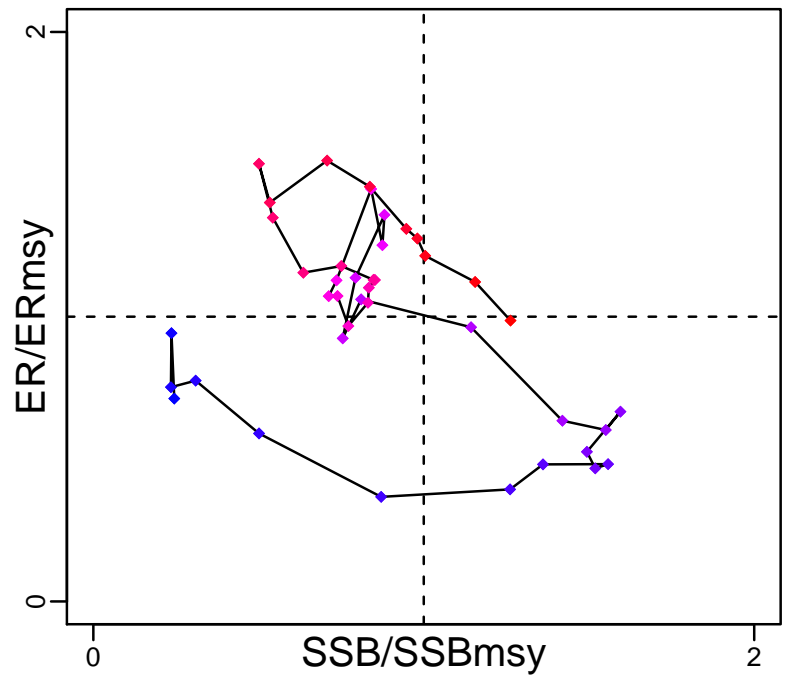
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,670,000	-	0+
SSB	SSB-MT	2018	303,676	-	-
TN	-	-	-	-	-
R	R-E00	2018	435,409,000	-	0
F	F-1/yr	2018	0.384	-	-
ER	ER-calc-ratio	2018	0.226	-	-
TC	TC-MT	2018	237,858		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.32		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.986		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Bering Sea [PCODBS]

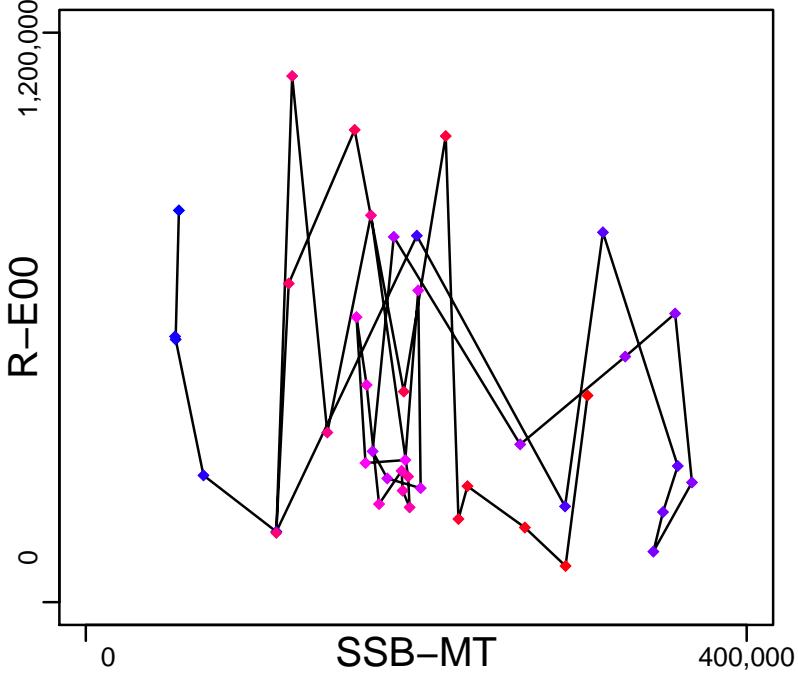
Kobe MSYpref (1977–2018–SISIMP2021)



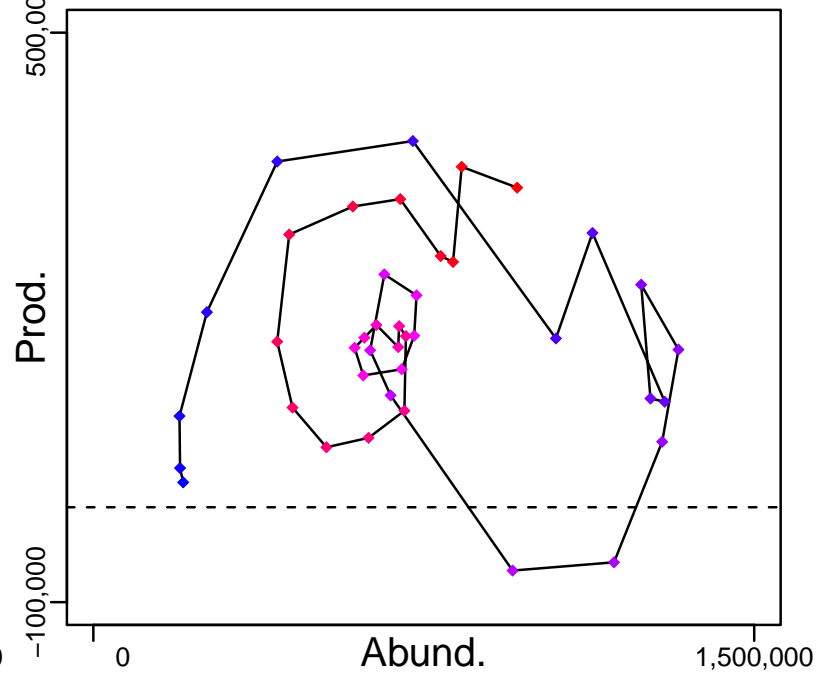
Kobe MGTpref (1977–2018–SISIMP2021)



Spawner Recruit (1977–2018–SISIMP2021)



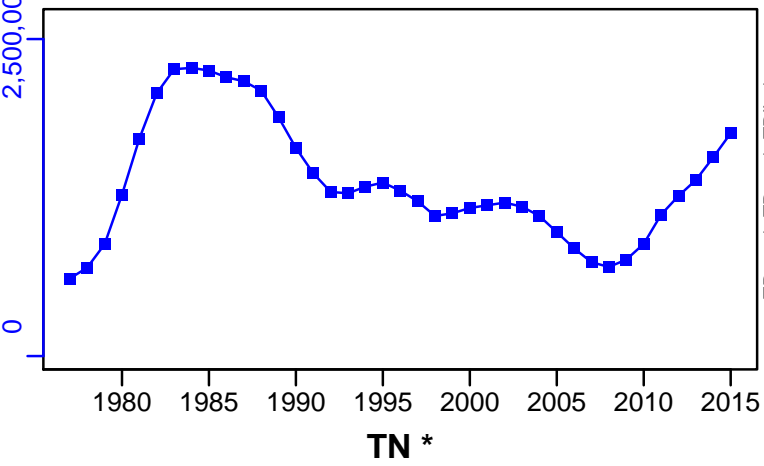
Production (1977–2018–SISIMP2021)



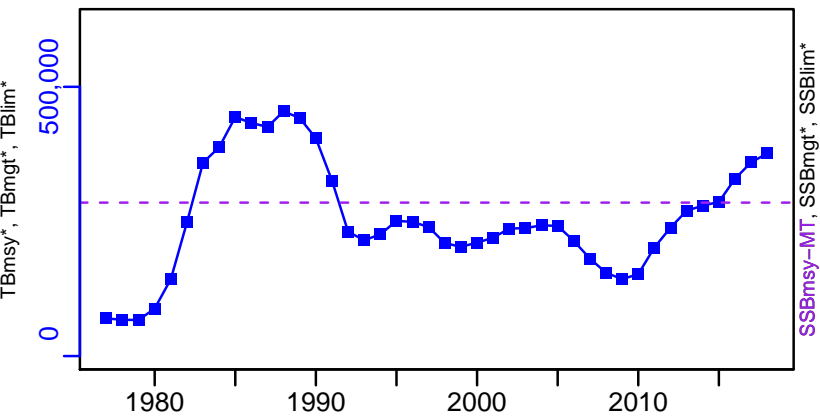
◆ Start Year ◆ End Year * No Data

Pacific cod Bering Sea [PCODBS]

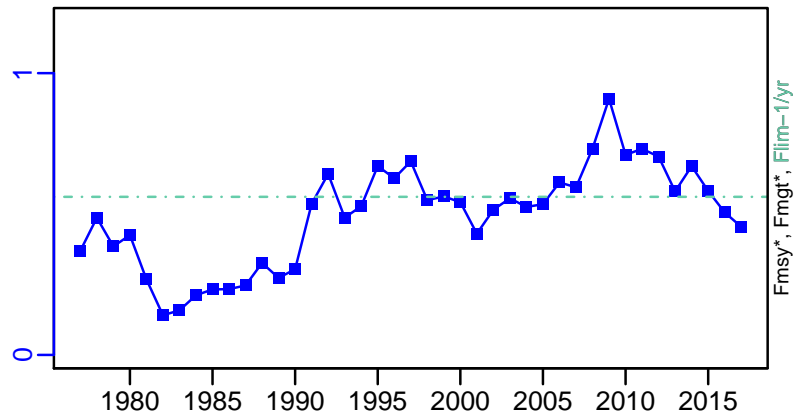
TB-MT (1977–2015–SISIMP2016)



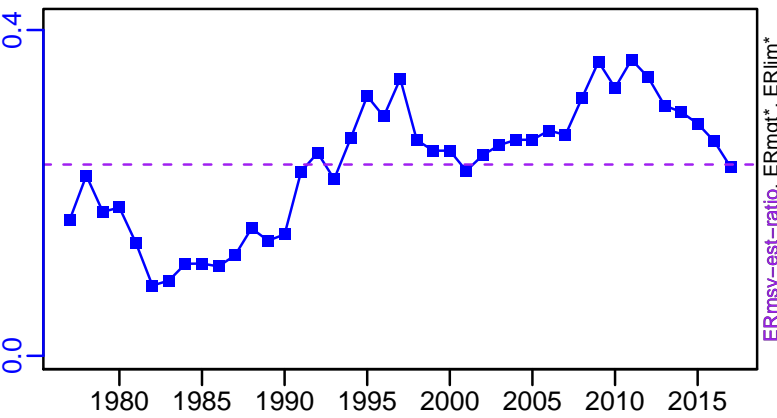
SSB-MT (1977–2018–SISIMP2021)



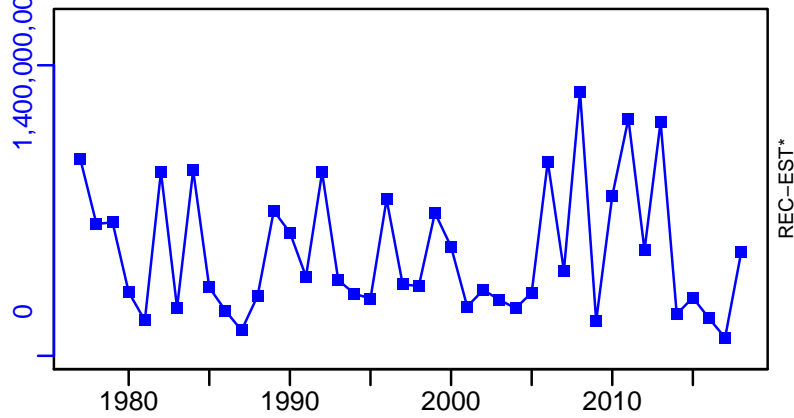
F-1/yr (1977–2018–SISIMP2021)



ER-calc-ratio (1977–2018–SISIMP2021)



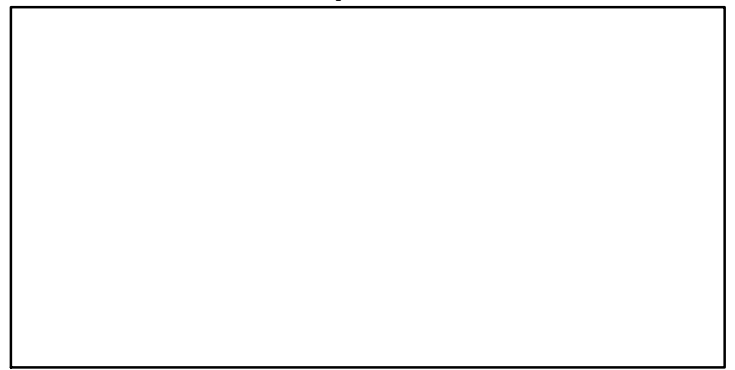
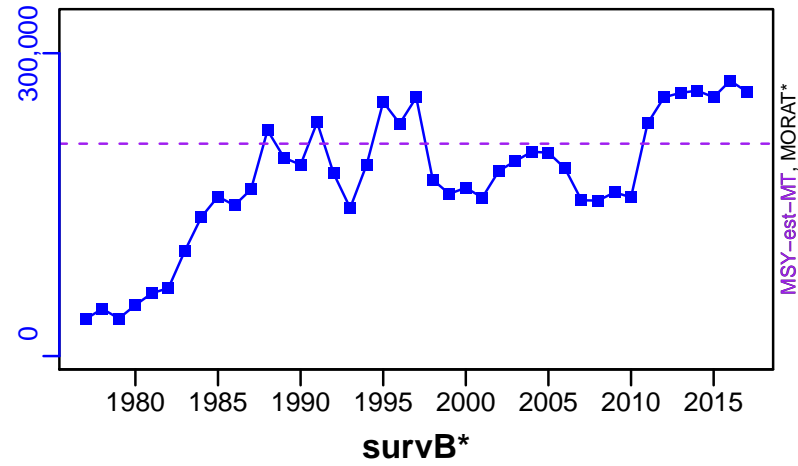
R-E00 (1977–2018–SISIMP2021)



Pacific cod Bering Sea [PCODBS]

TC-MT, TL*, RecC* (1977-2018-SISIMP2021)

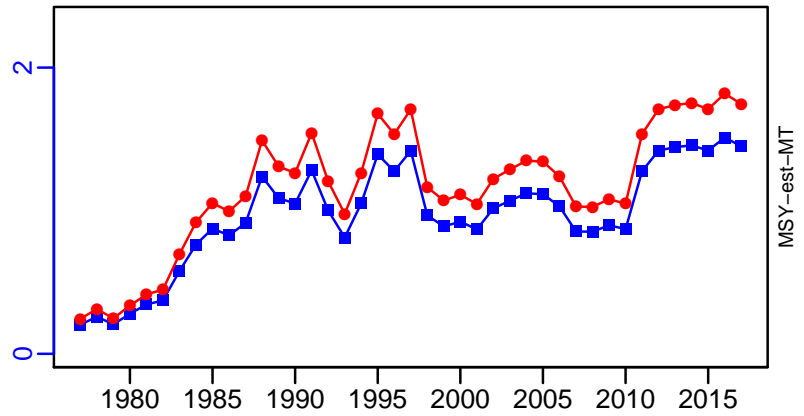
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2018-SISIMP2021)



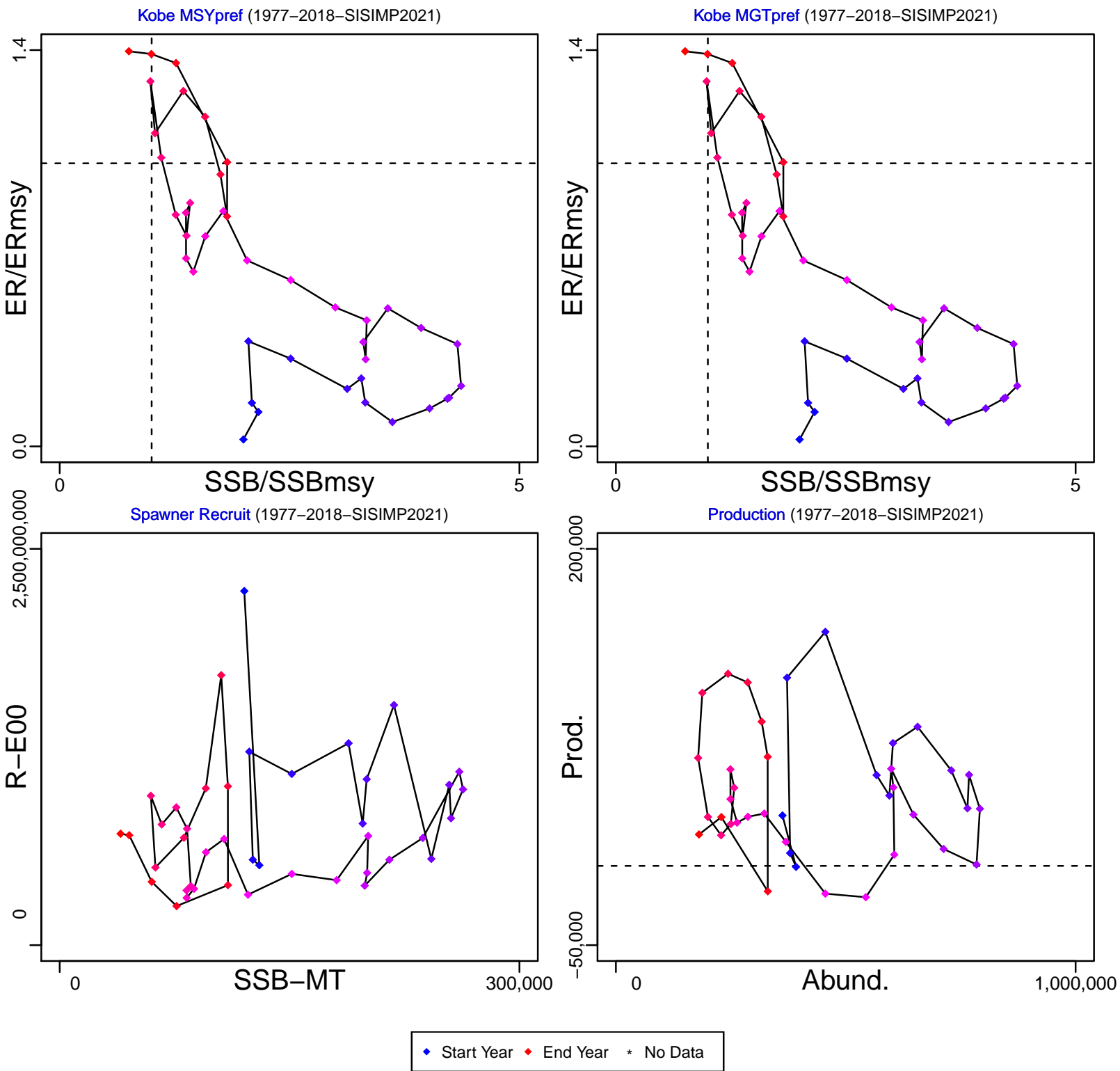
Pacific cod Gulf of Alaska [PCODGA]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODGA-1977-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	60,284
Fmsy	Fmsy-pr-1/yr	2014	0.69
ERmsy	ERmsy-est-ratio	2018	0.256
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	91,100
Fmgt	Fmgt-1/yr	2015	0.495
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	46,390
M	M-1/yr	2014	0.38
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.593
ERlim	-	-	-

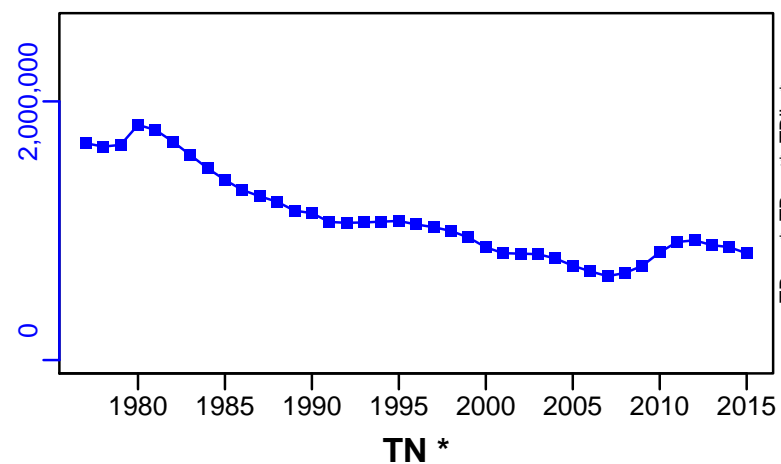
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	640,000	-	3+
SSB	SSB-MT	2018	39,723	-	-
TN	-	-	-	-	-
R	R-E00	2018	702,851,000	-	0
F	F-1/yr	2018	0.732	-	-
ER	ER-calc-ratio	2018	0.357	-	-
TC	TC-MT	2018	48,734		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.659		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2014	0.549		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	1.396		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.614		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.218		
ER/ERmgt	-	-	-		

Pacific cod Gulf of Alaska [PCODGA]

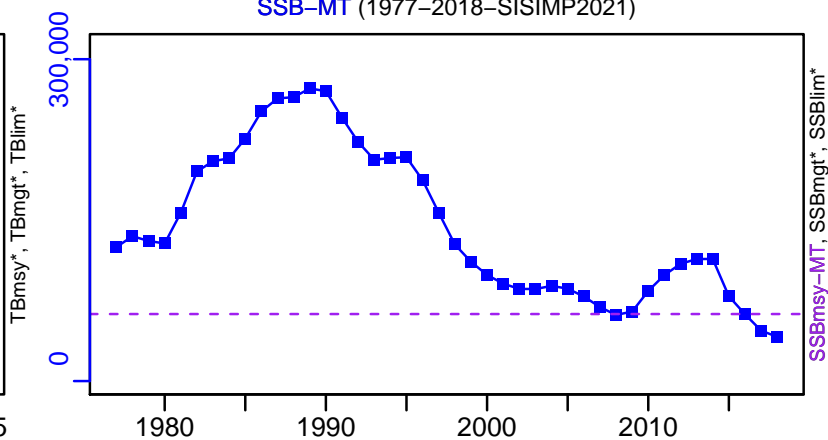


Pacific cod Gulf of Alaska [PCODGA]

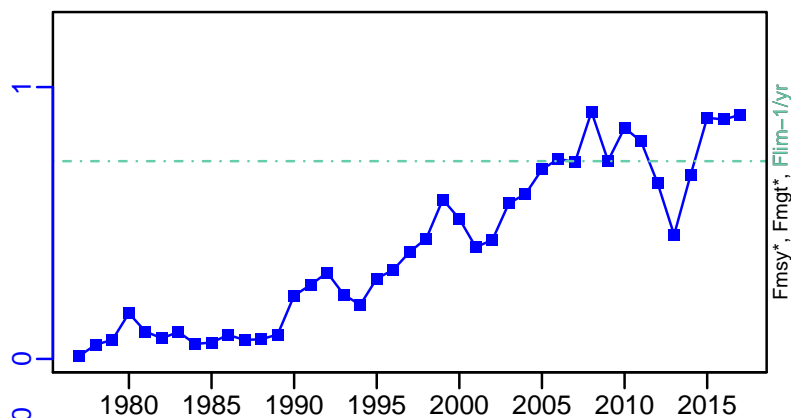
TB-MT (1977–2015–SISIMP2016)



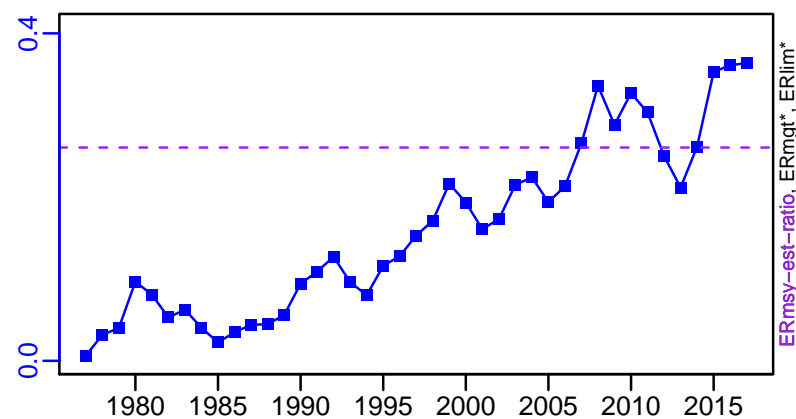
SSB-MT (1977–2018–SISIMP2021)



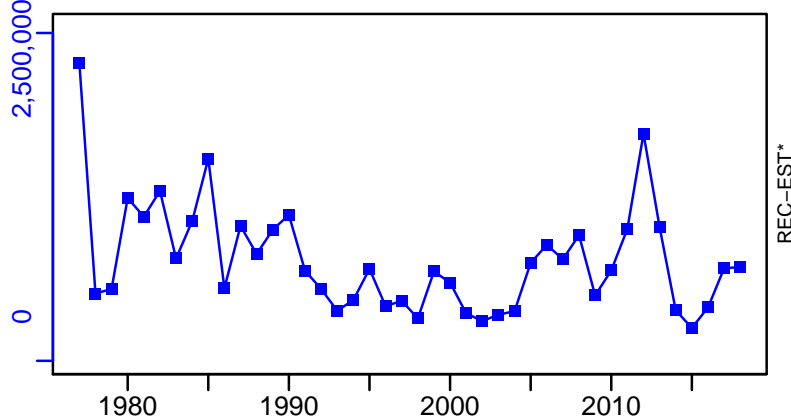
F-1/yr (1977–2018–SISIMP2021)



ER-calc-ratio (1977–2018–SISIMP2021)



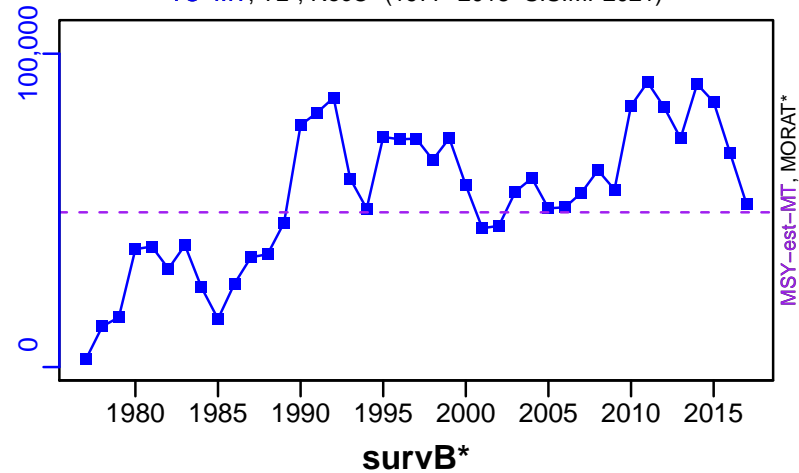
R-E00 (1977–2018–SISIMP2021)



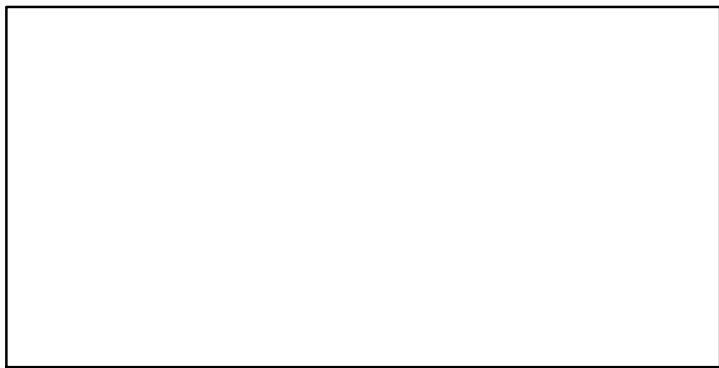
Pacific cod Gulf of Alaska [PCODGA]

TC-MT, TL*, RecC* (1977-2018-SISIMP2021)

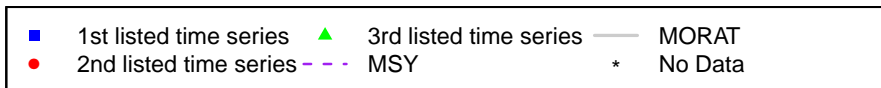
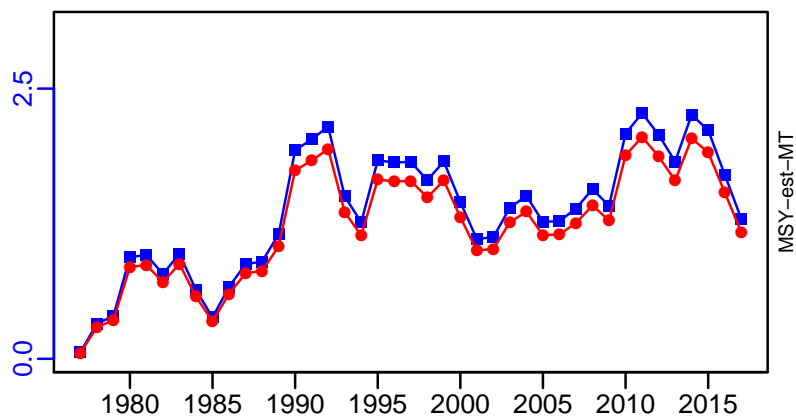
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2018-SISIMP2021)



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

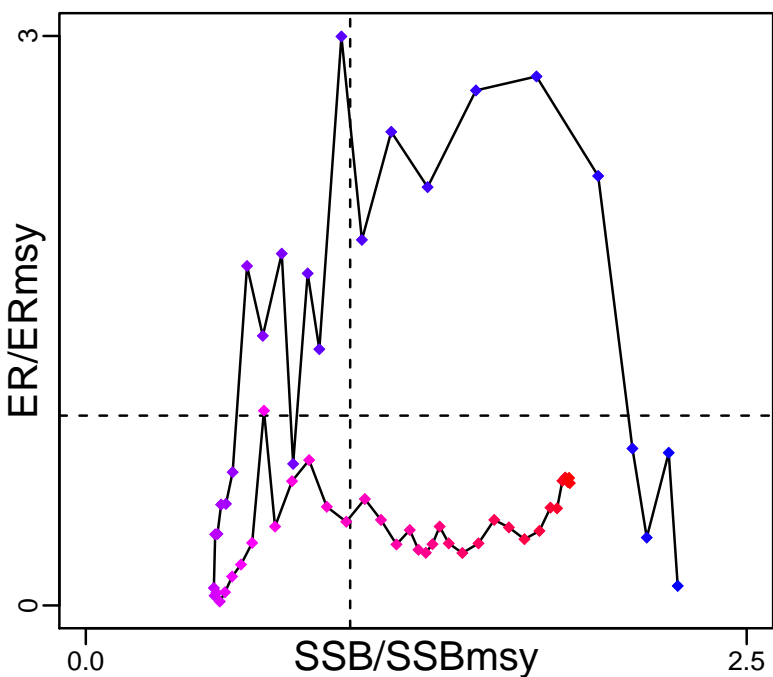
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-PERCHEBSAI-1957-2018-SISIMP2021
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	226,008
Fmsy	Fmsy-pr-1/yr	2011	0.074
ERmsy	ERmsy-est-ratio	2018	0.049
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	26,500
M	M-1/yr	2011	0.062
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.082
ERlim	-	-	-

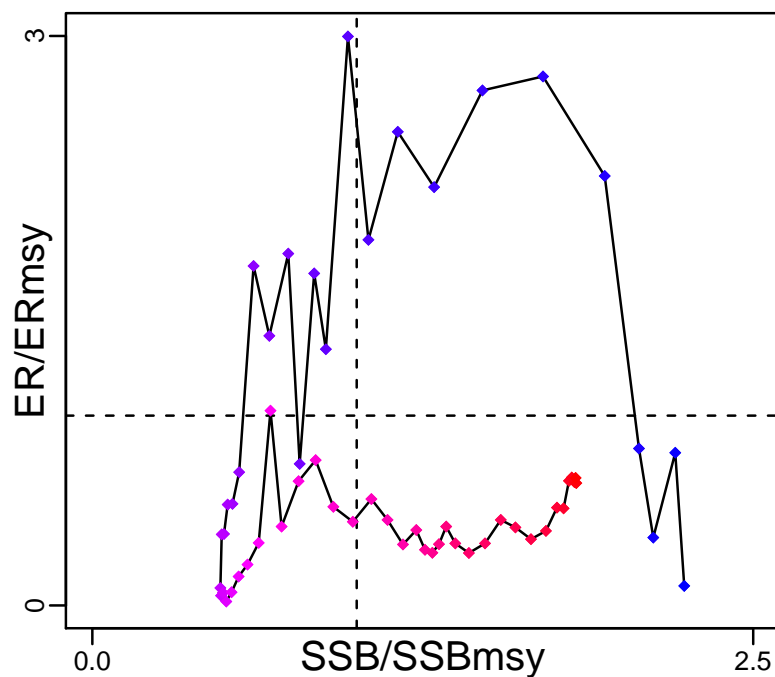
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	598,000	Both	3+
SSB	SSB-MT	2018	408,484	-	-
TN	-	-	-	-	-
R	R-E00	2018	101,724,000	-	3
F	F-1/yr	2018	0.05	-	-
ER	ER-calc-ratio	2018	0.033	-	-
TC	TC-MT	2018	32,543		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.807		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.345		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.672		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

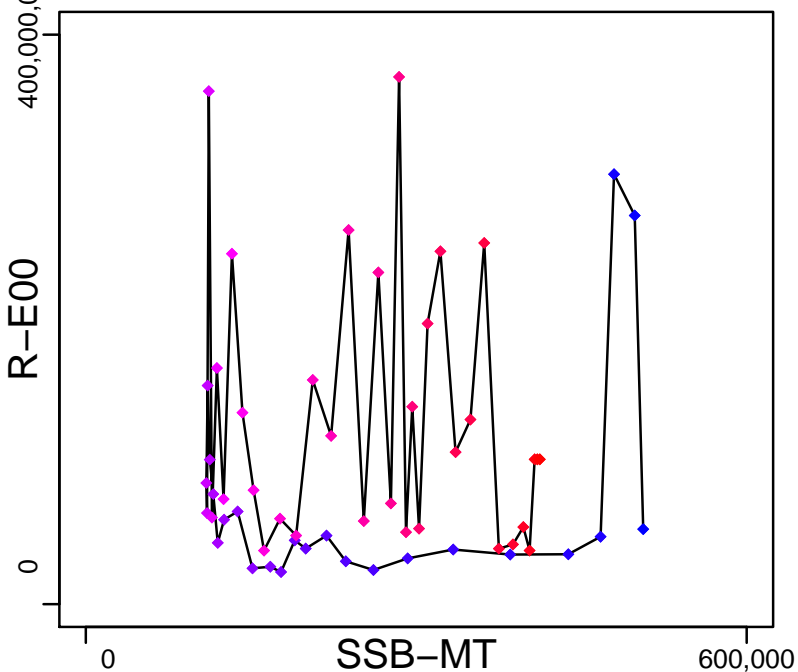
Kobe MSY_{pref} (1957–2018–SISIMP2021)



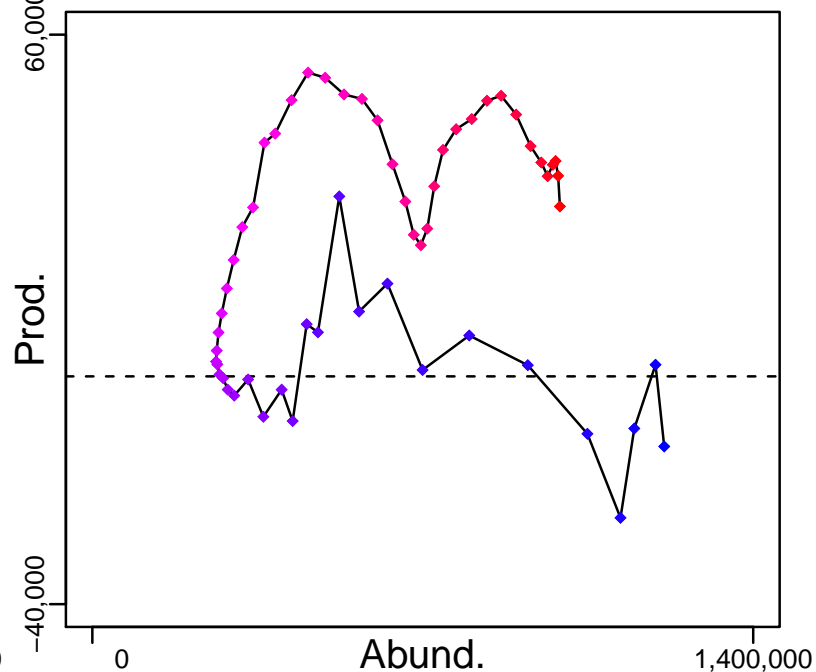
Kobe MGT_{pref} (1957–2018–SISIMP2021)



Spawner Recruit (1957–2018–SISIMP2021)



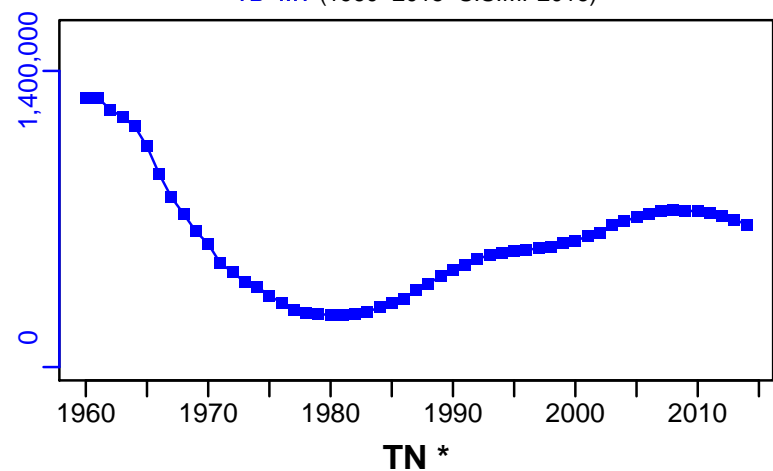
Production (1957–2018–SISIMP2021)



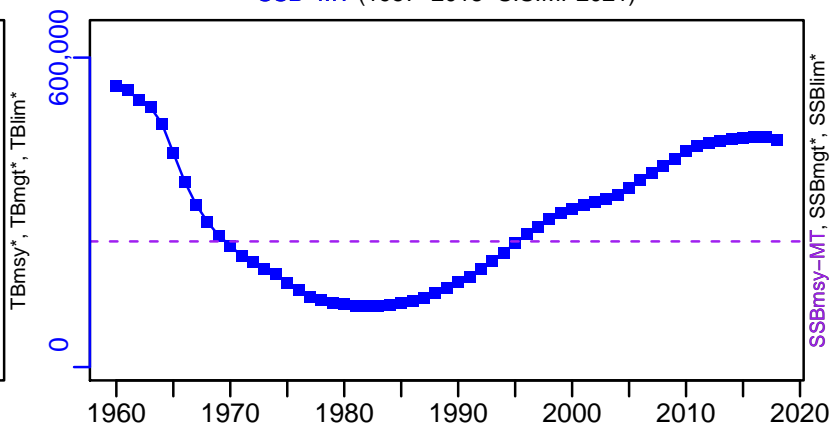
◆ Start Year ◆ End Year * No Data

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

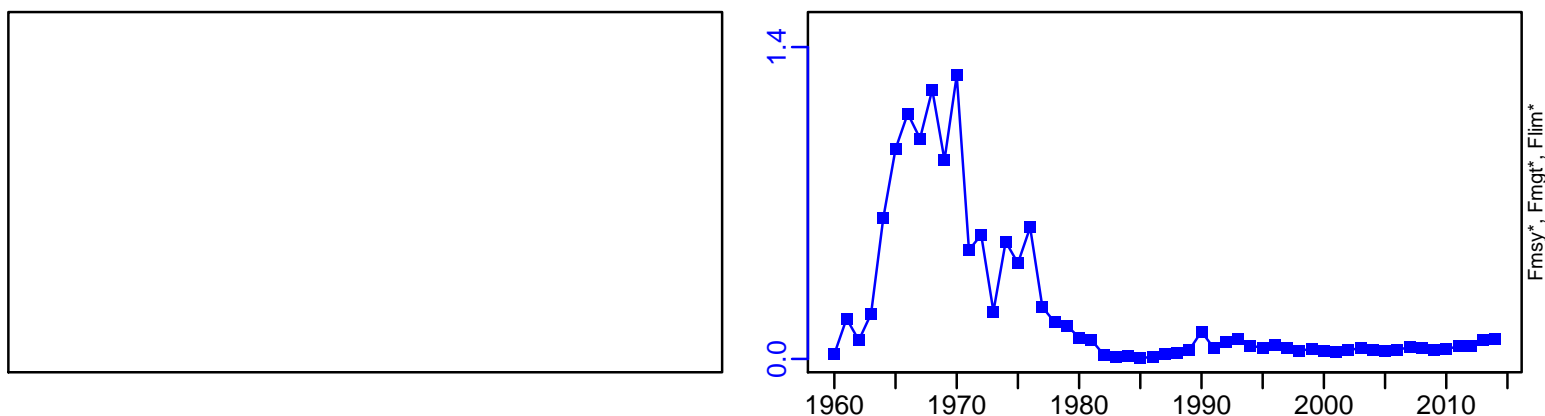
TB-MT (1960–2015–SISIMP2016)



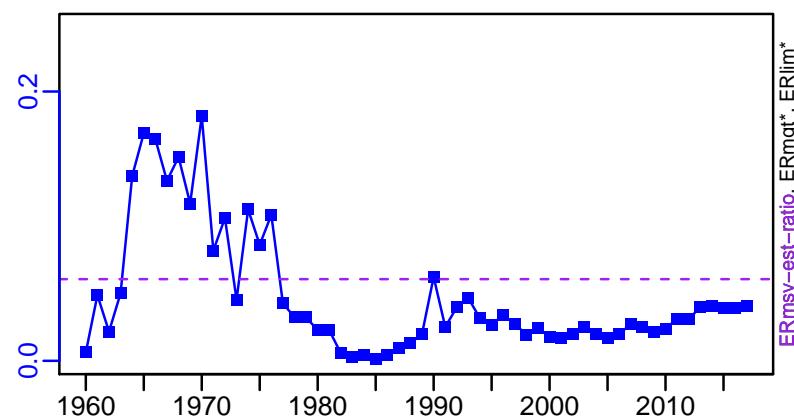
SSB-MT (1957–2018–SISIMP2021)



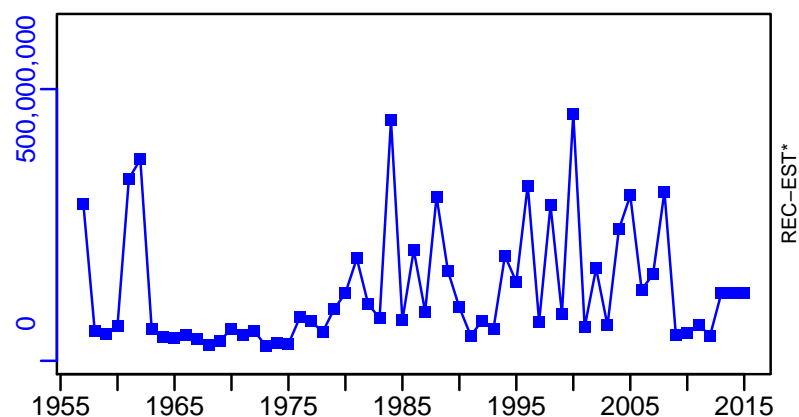
F-1/yr (1960–2015–SISIMP2016)



ER-calc-ratio (1957–2018–SISIMP2021)

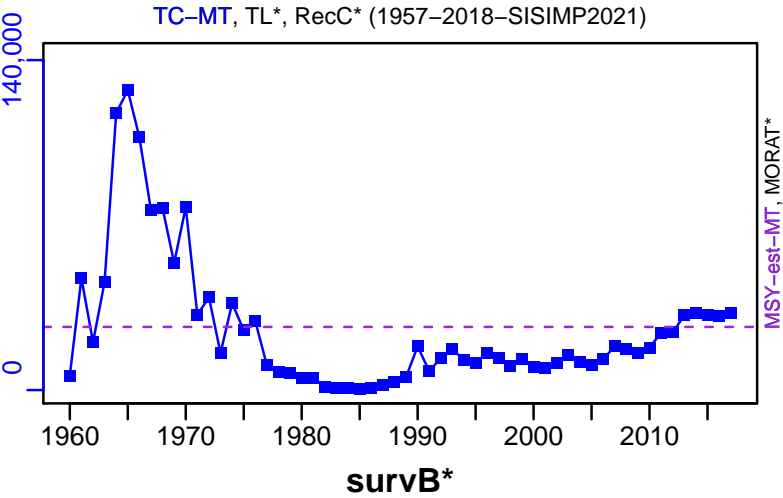


R-E00 (1957–2018–SISIMP2021)



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

TC-MT, TL*, RecC* (1957-2018-SISIMP2021)



TAC*, Cpair*, Cadv*



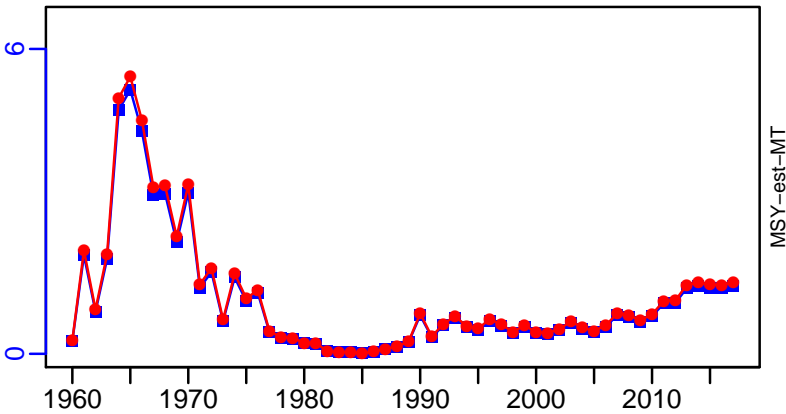
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1957-2018-SISIMP2021)



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

Pacific halibut North Pacific [PHALNPAC]

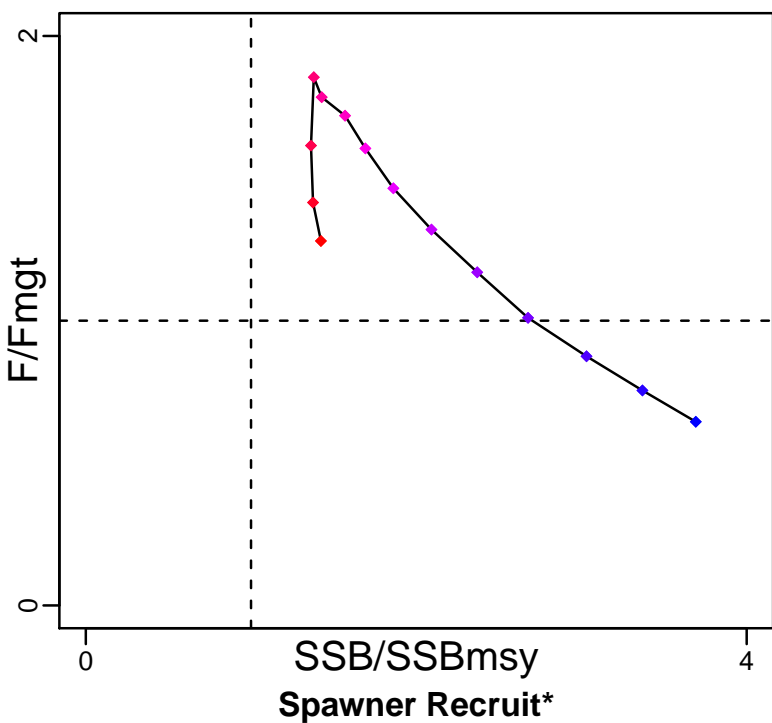
Metadata	
Scientific Name	Hippoglossus stenolepis
Current Assess ID	IPHC-PHALNPAC-1888-2014-HIVELY
Area	North Pacific
Management Authority	International Pacific Halibut Commission
Assessor	International Pacific Halibut Commission
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2014	65,004
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	65,004
Fmgt	Fmgt-1/yr	2014	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

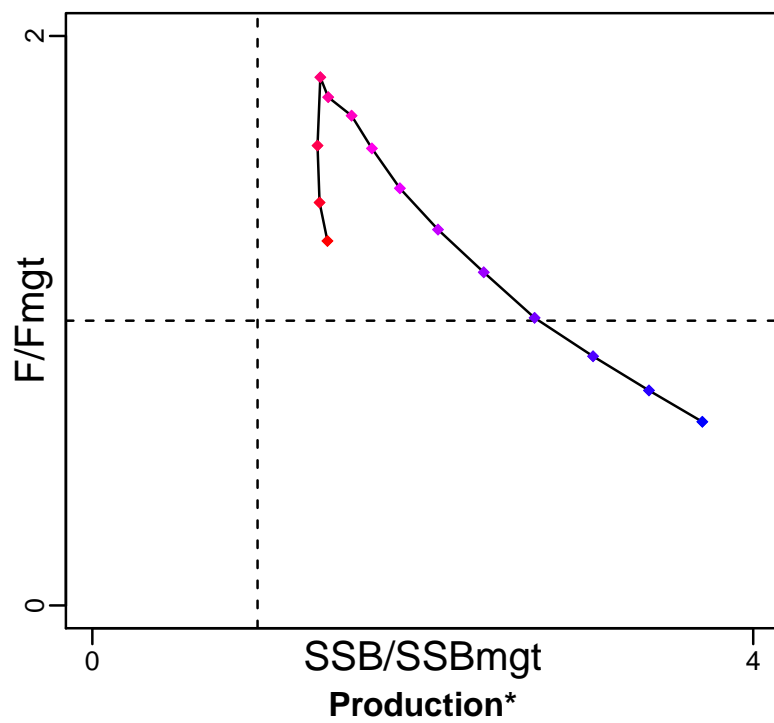
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	77,000	-	-
SSB	SSB-MT	2014	94,600	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2014	0.256	-	-
ER	ER-calc-ratio	2014	0.139	-	-
TC	TC-MT	2014	10,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2014	1.455		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.455		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.28		
ER/ERmgt	-	-	-		

Pacific halibut North Pacific [PHALNPAC]

Kobe MSYpref (1888–2014–HIVELY)



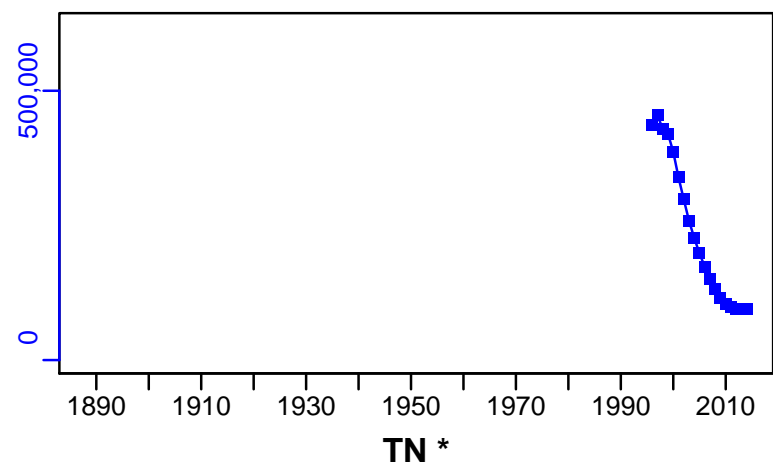
Kobe MGTpref (1888–2014–HIVELY)



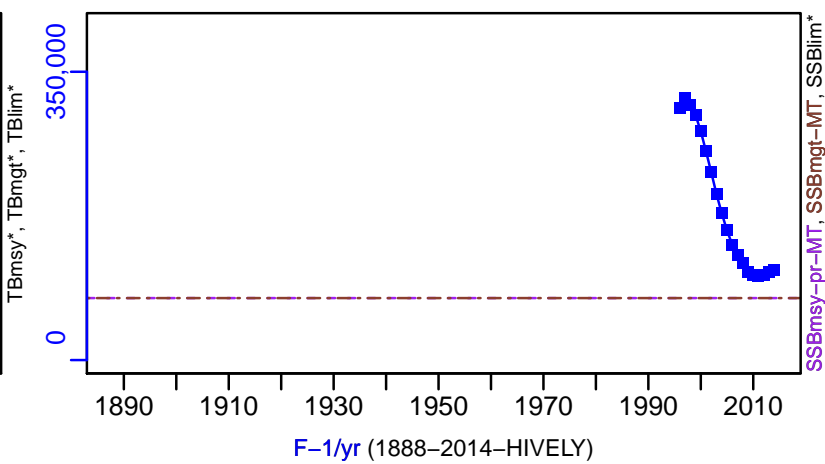
◆ Start Year ◆ End Year * No Data

Pacific halibut North Pacific [PHALNPAC]

TB-MT (1888–2014–HIVELY)



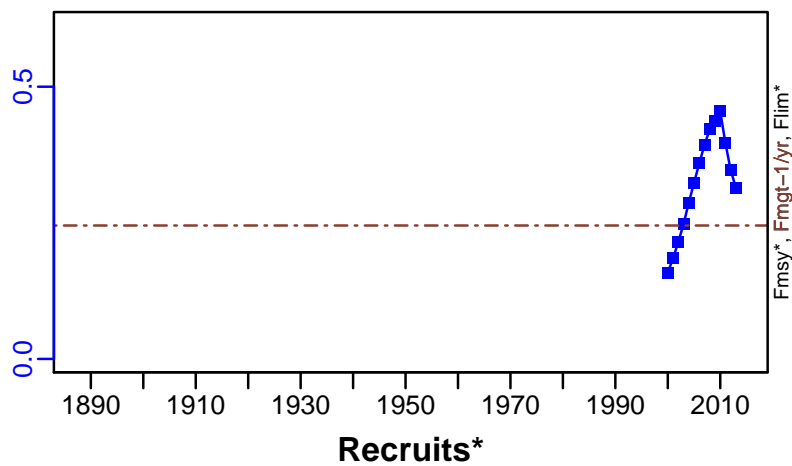
SSB-MT (1888–2014–HIVELY)



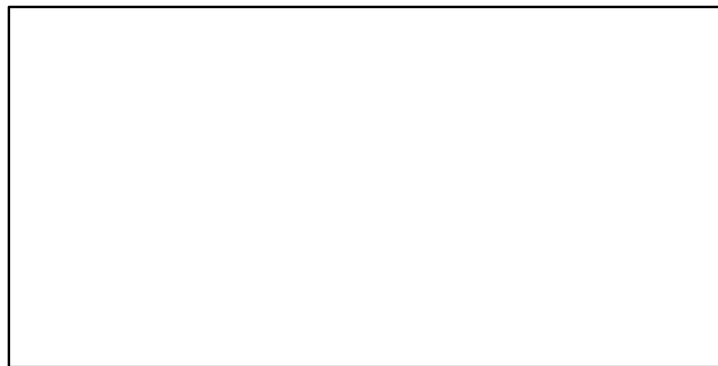
TN *



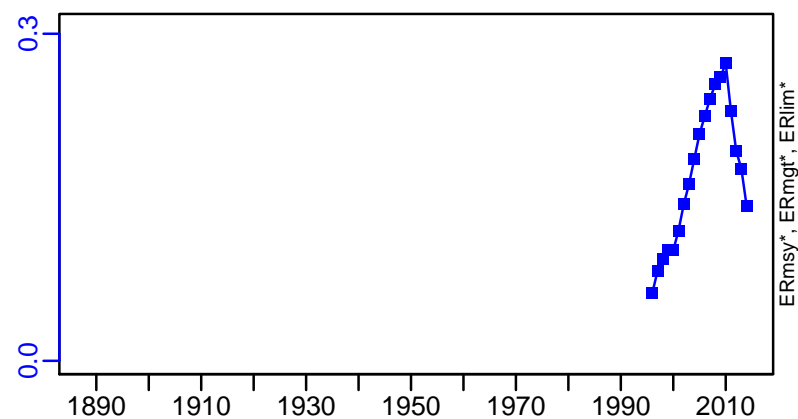
F-1/yr (1888–2014–HIVELY)



Recruits*



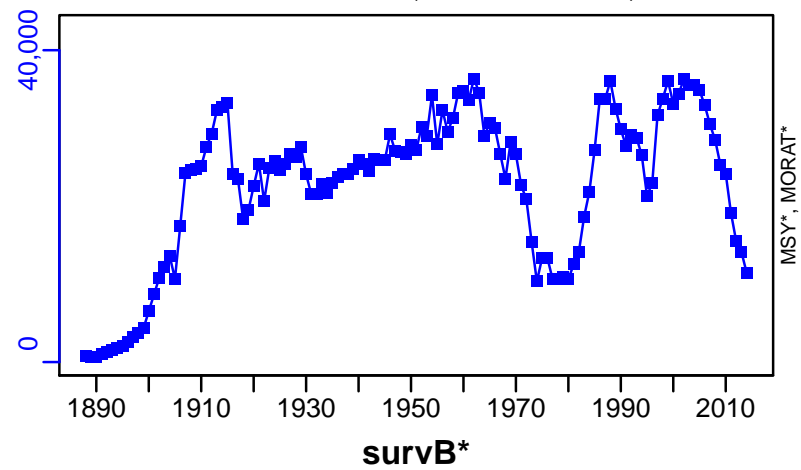
ER-calc-ratio (1888–2014–HIVELY)



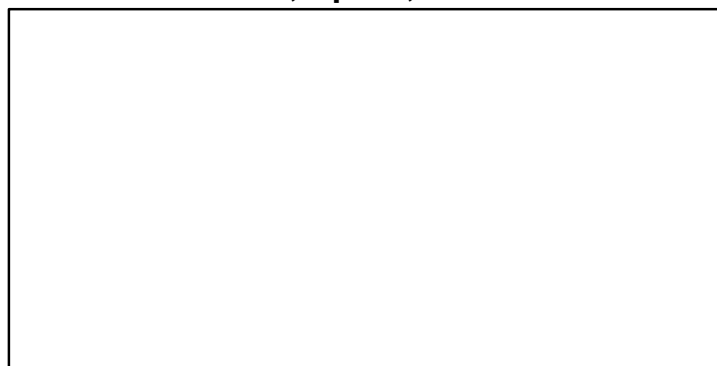
Pacific halibut North Pacific [PHALNPAC]

TC-MT, TL*, RecC* (1888–2014–HIVELY)

TAC*, Cpair*, Cadv*



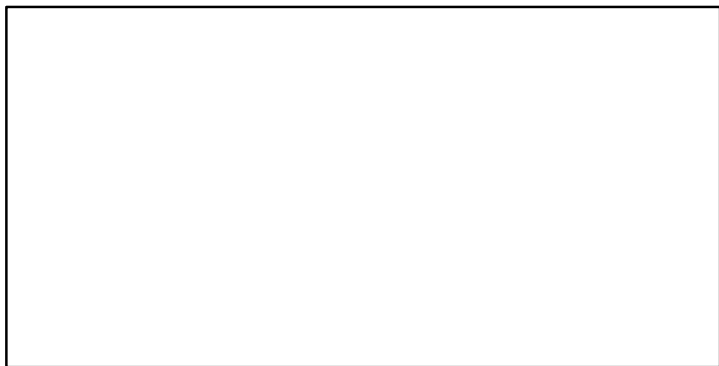
MSY*, MORAT*



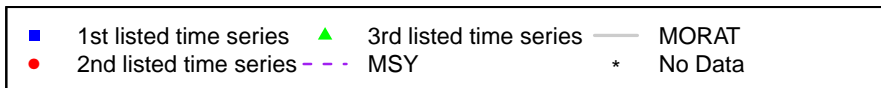
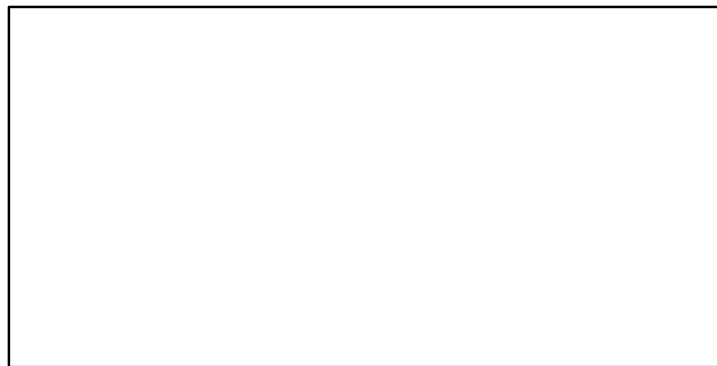
CPUE*



EFFORT*



CdivMSY*



Pacific ocean perch Gulf of Alaska [POPERCHGA]

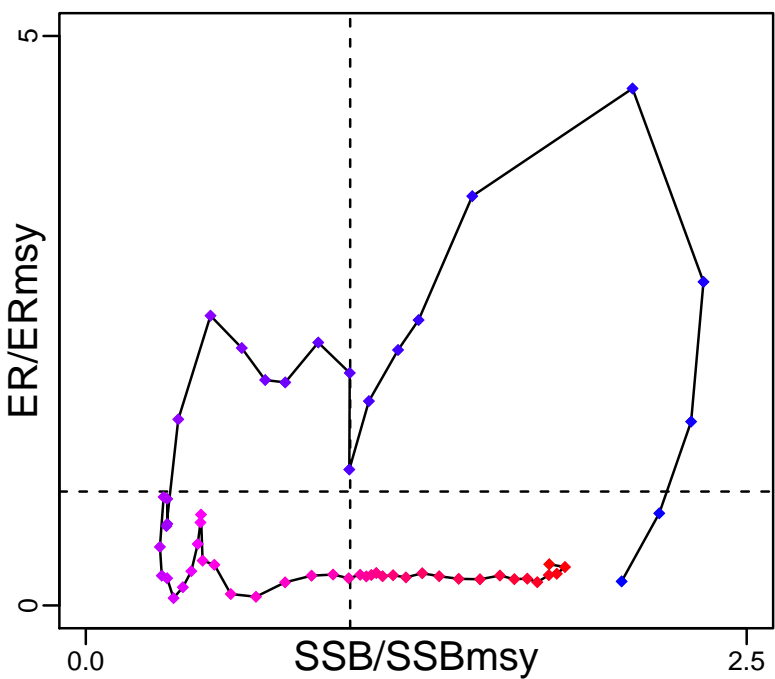
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-POPERCHGA-1959-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	238,362
SSBmsy	SSBmsy-MT	2018	102,767
Fmsy	Fmsy-pr-1/yr	2010	0.142
ERmsy	ERmsy-ratio	2010	0.085
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	20,243
M	M-1/yr	2010	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.091
ERlim	-	-	-

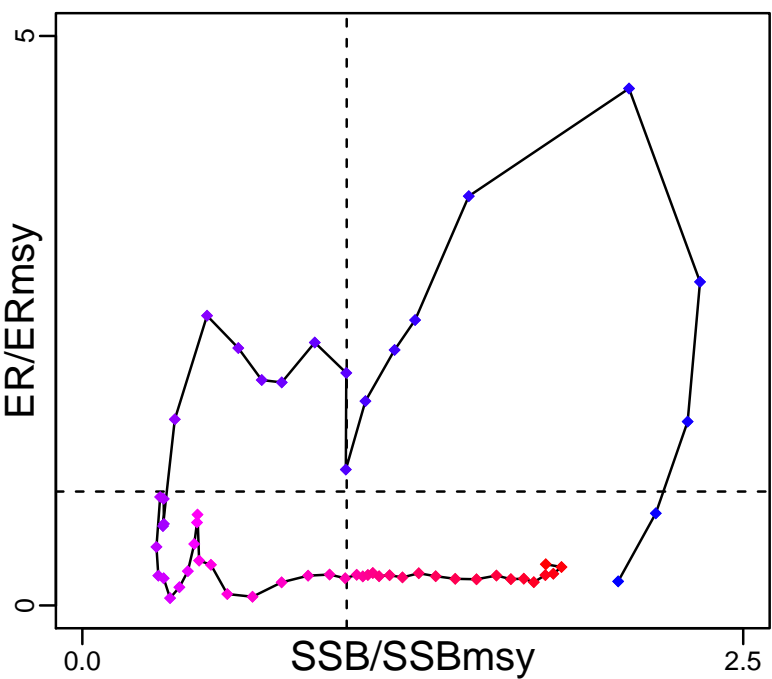
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	462,000	Both	2+
SSB	SSB-MT	2018	180,010	-	-
TN	-	-	-	-	-
R	R-E00	2018	61,032,400	-	2
F	F-1/yr	2018	0.07	-	-
ER	ER-calc-ratio	2018	0.055	-	-
TC	TC-MT	2018	23,880		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.752		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.615		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.511		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific ocean perch Gulf of Alaska [POPERCHGA]

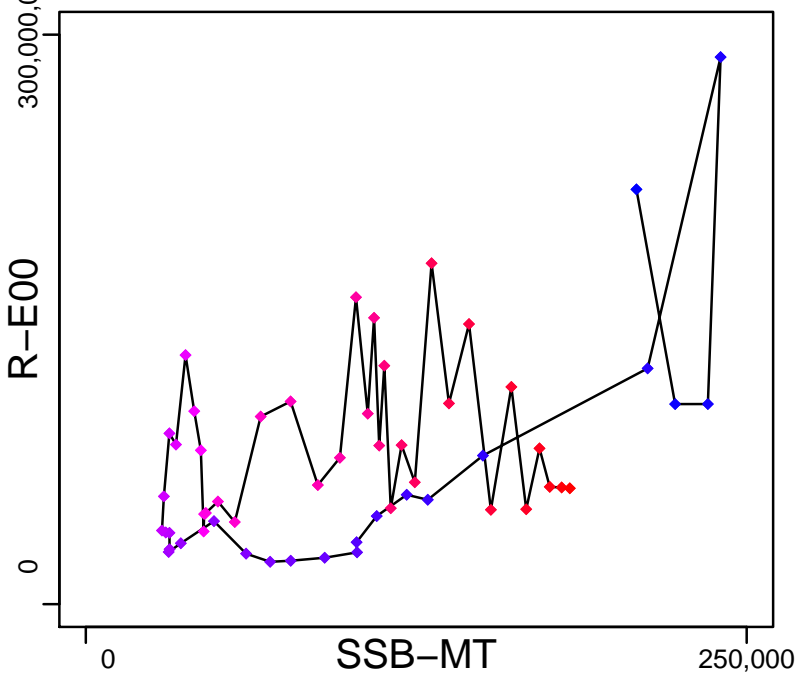
Kobe MSYpref (1959–2018–SISIMP2021)



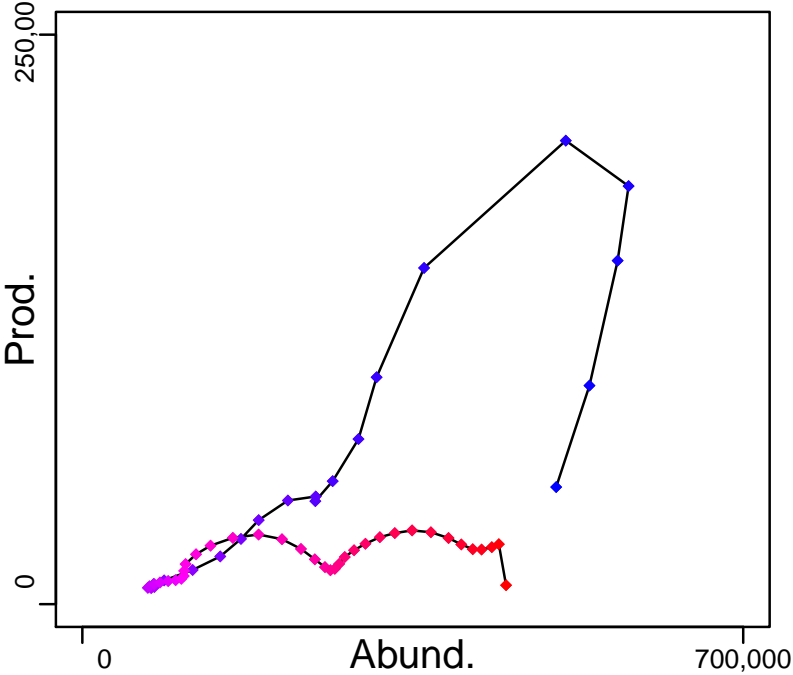
Kobe MGTpref (1959–2018–SISIMP2021)



Spawner Recruit (1959–2018–SISIMP2021)



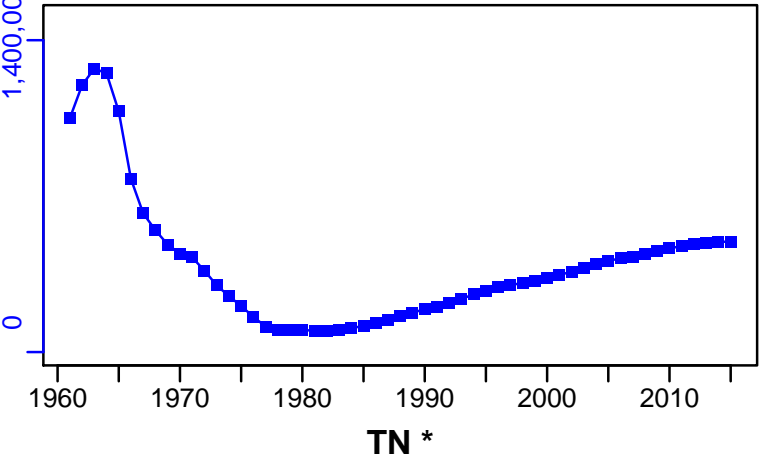
Production (1959–2018–SISIMP2021)



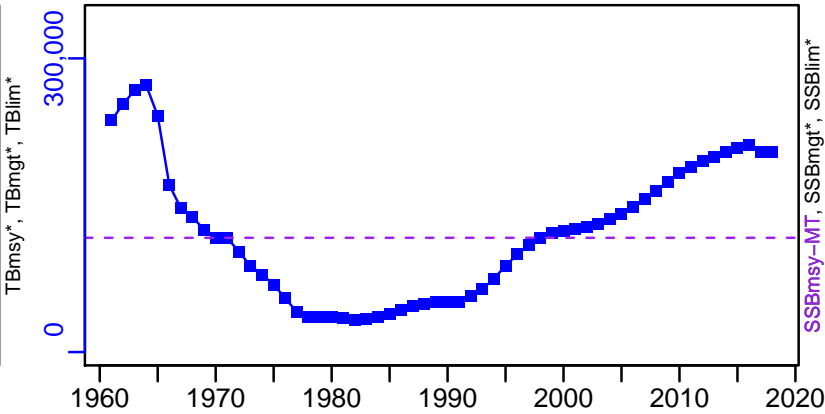
◆ Start Year ◆ End Year * No Data

Pacific ocean perch Gulf of Alaska [POPERCHGA]

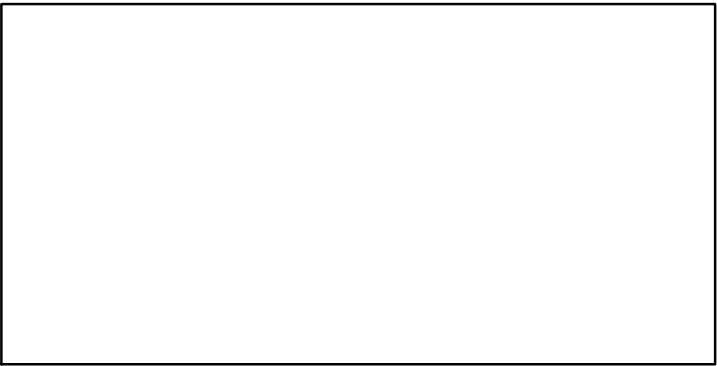
TB-MT (1961–2015–SISIMP2016)



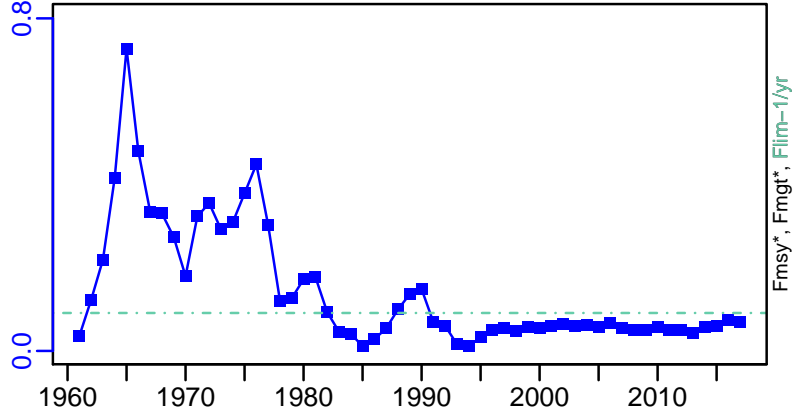
SSB-MT (1959–2018–SISIMP2021)



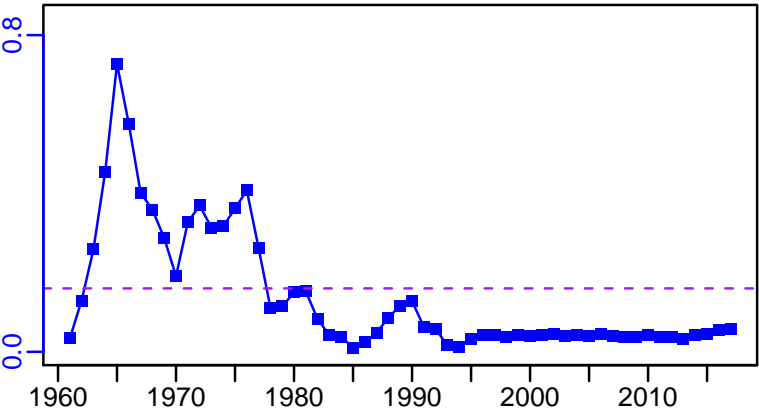
TN *



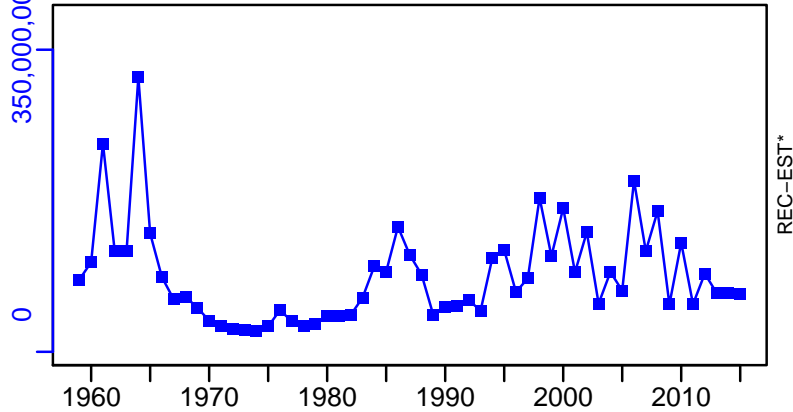
F-1/yr (1959–2018–SISIMP2021)



ER-calc-ratio (1959–2018–SISIMP2021)

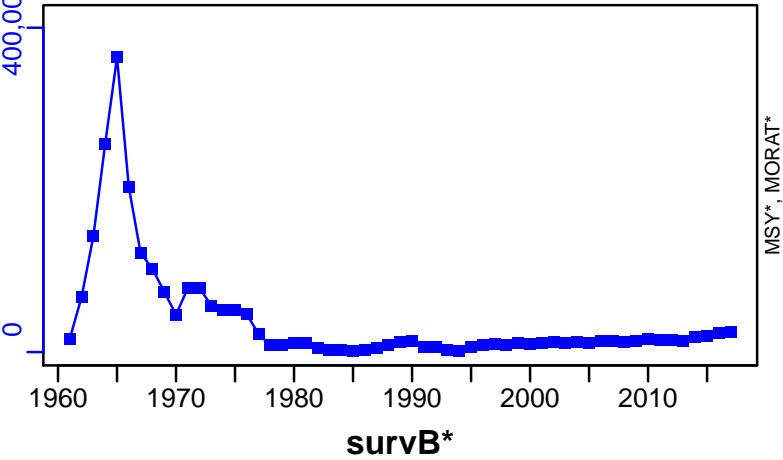


R-E00 (1959–2018–SISIMP2021)



Pacific ocean perch Gulf of Alaska [POPERCHGA]

TC-MT, TL*, RecC* (1959-2018-SISIMP2021)



TAC*, Cpair*, Cadv*



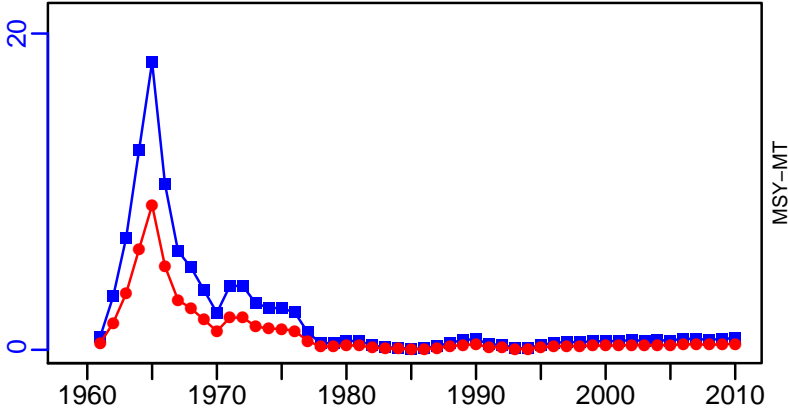
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1959-2010-STACHURA)



Rex sole Gulf of Alaska [REXSOLEGA]

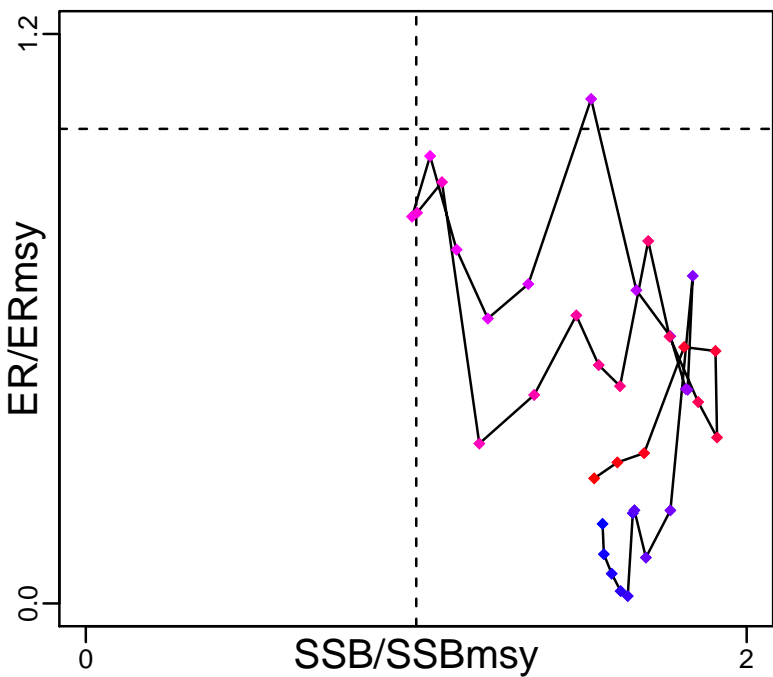
Metadata	
Scientific Name	Glyptocephalus zachirus
Current Assess ID	AFSC-REXSOLEGA-1982-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2014, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2016	19,896
SSBmsy	SSBmsy-MT	2017	19,896
Fmsy	Fmsy-1/yr	2017	0.128
ERmsy	ERmsy-ratio	2016	0.29
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.128
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2016	5770
M	M-1/yr	2011	0.17
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2017	0.17
ERlim	ERlim-ratio	2016	0.29

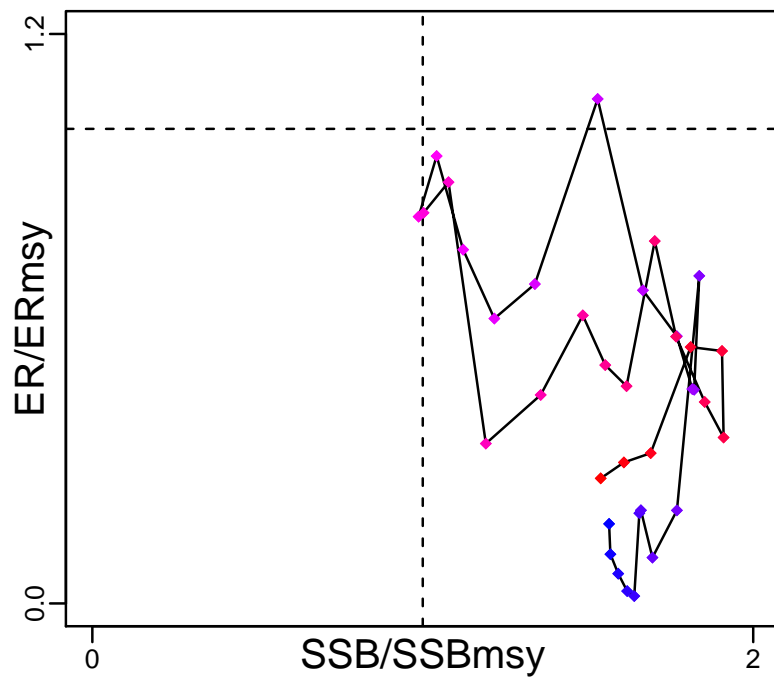
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	43,731	-	-
SSB	SSB-MT	2018	36,411	-	-
TN	-	-	-	-	-
R	R-E00	2018	78,656,292	-	0
F	F-1/yr	2018	0.025	-	-
ER	ER-calc-ratio	2018	0.017	-	-
TC	TC-MT	2018	1483		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2016	2.198		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.408		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.508		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.162		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.767		
ER/ERmgt	-	-	-		

Rex sole Gulf of Alaska [REXSOLEGA]

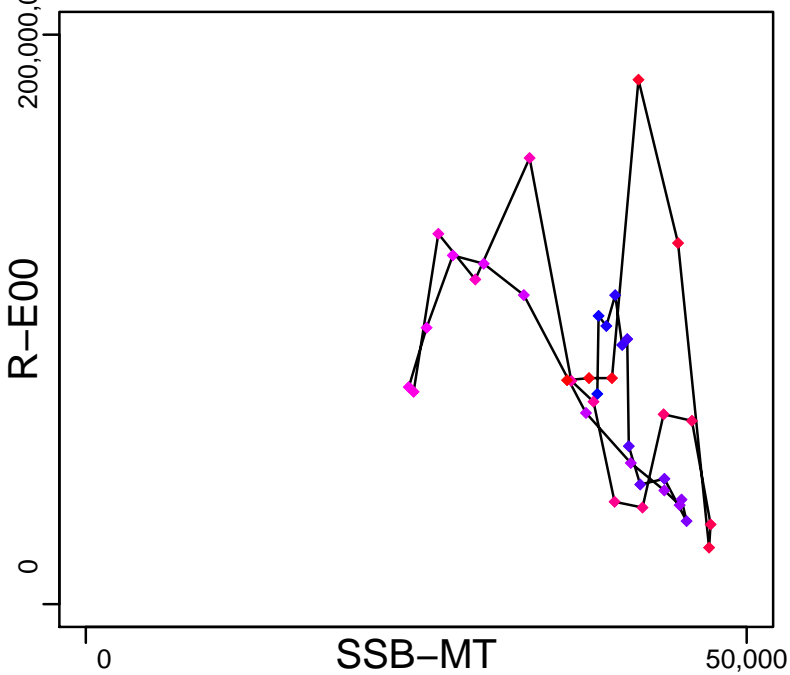
Kobe MSY_{pref} (1982–2018–SISIMP2021)



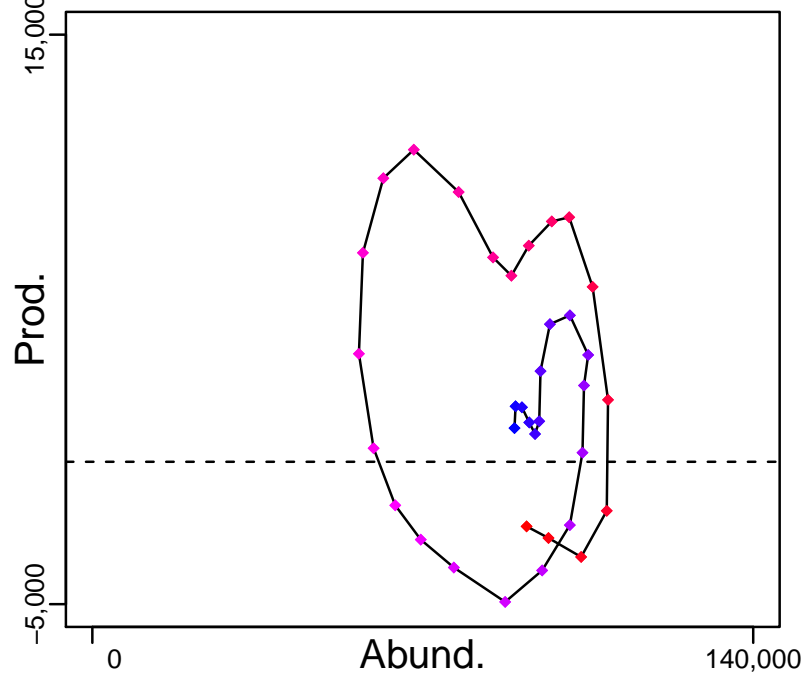
Kobe MGT_{pref} (1982–2018–SISIMP2021)



Spawner Recruit (1982–2018–SISIMP2021)



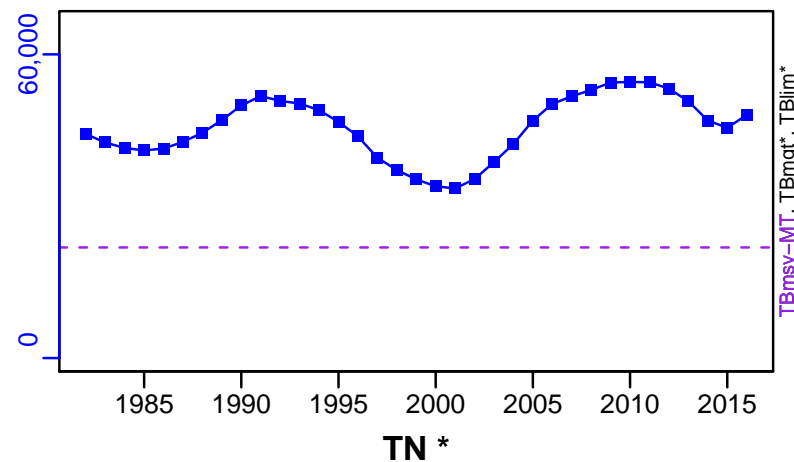
Production (1982–2018–SISIMP2021)



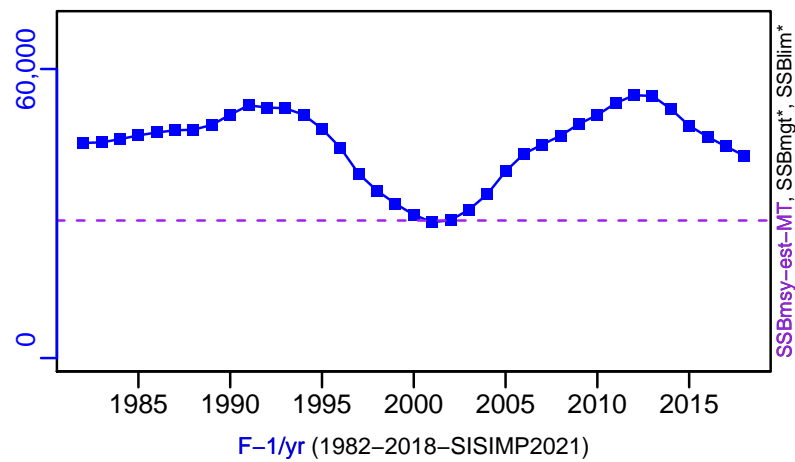
◆ Start Year ◆ End Year * No Data

Rex sole Gulf of Alaska [REXSOLEGA]

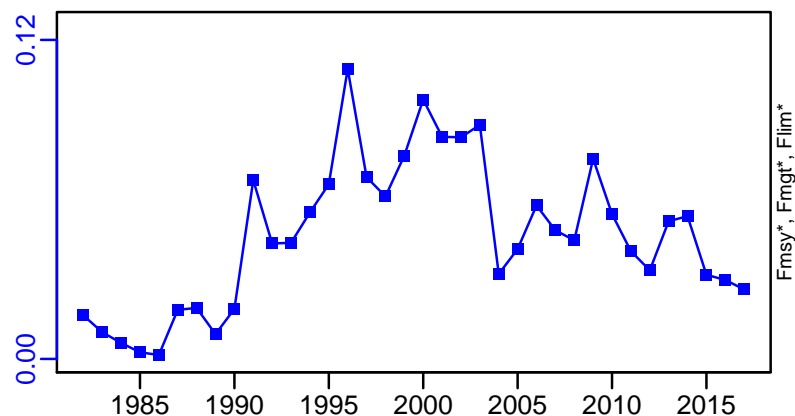
TB-MT (1982-2016-SISIMP2021)



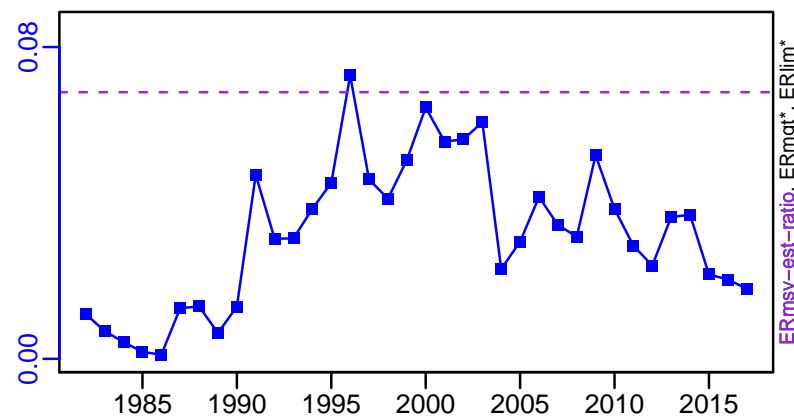
SSB-MT (1982-2018-SISIMP2021)



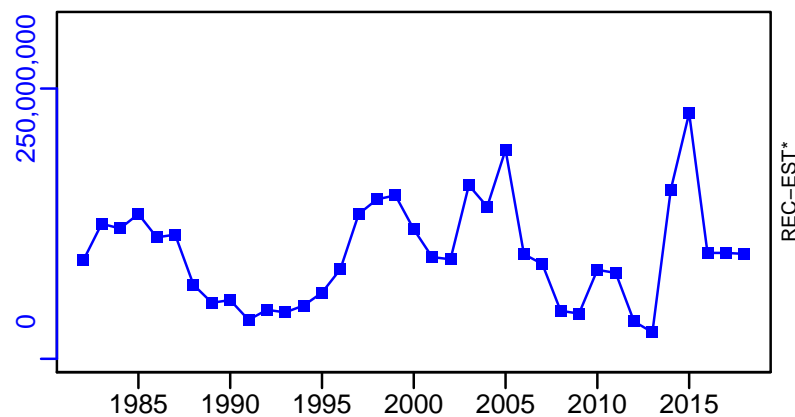
F-1/yr (1982-2018-SISIMP2021)



ER-calc-ratio (1982-2018-SISIMP2021)

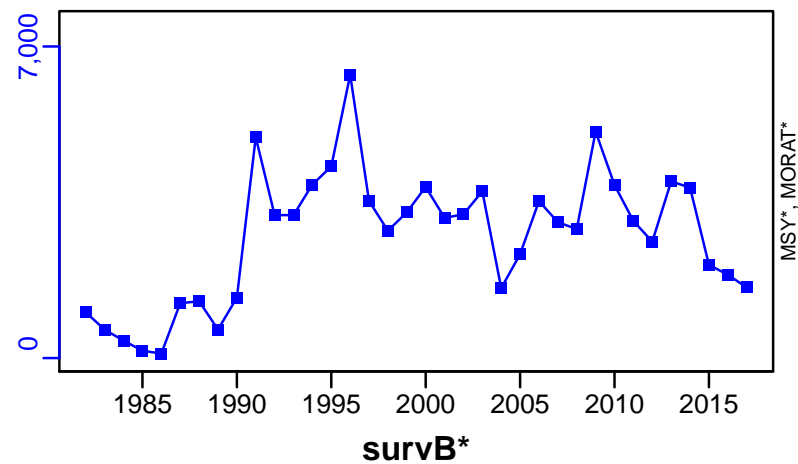


R-E00 (1982-2018-SISIMP2021)



Rex sole Gulf of Alaska [REXSOLEGA]

TC-MT, TL*, RecC* (1982-2018-SISIMP2021)



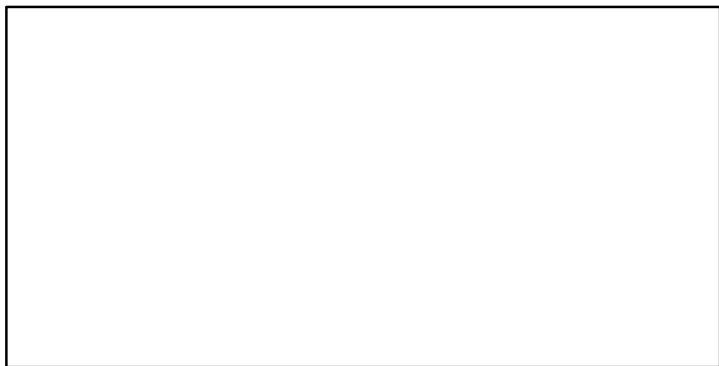
TAC*, Cpair*, Cadv*



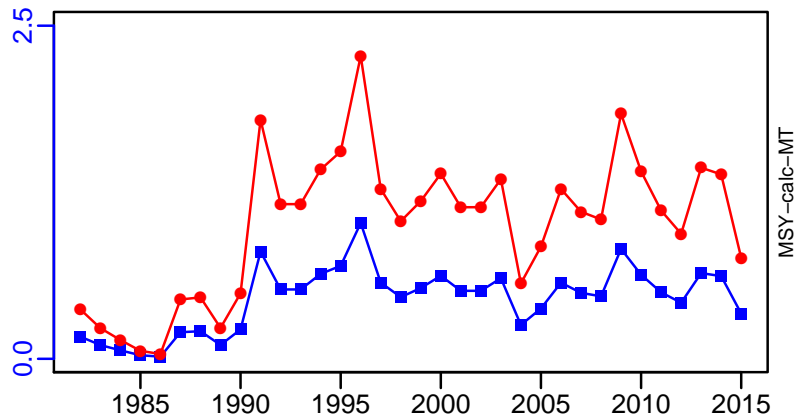
CPUE*



EFFORT*



TC-MT/MSY-calc-MT, CdivMEANC-ratio, (1982-2016-SISIMP2021)



- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

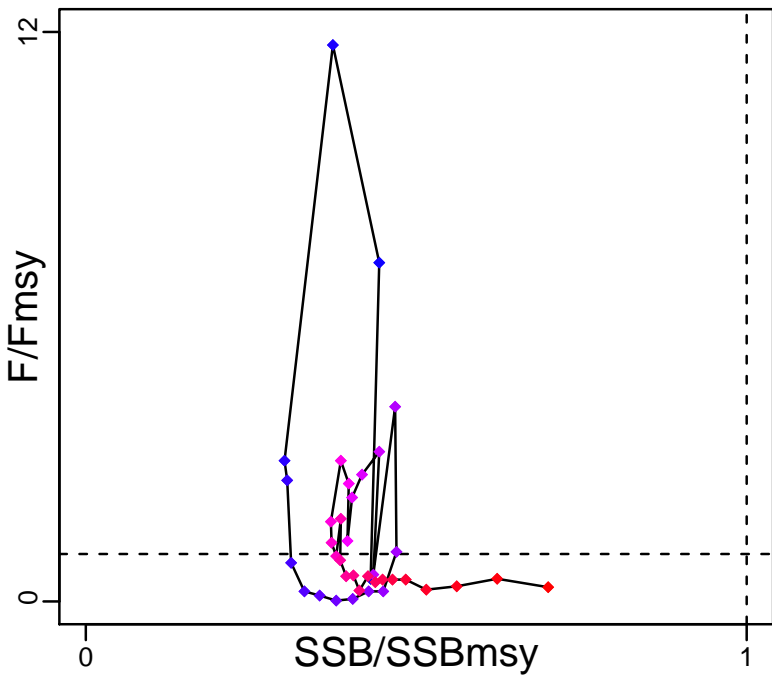
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKBSAI-1974-2015-HIVELY
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2015	9977
Fmsy	Fmsy-pr-1/yr	2015	0.058
ERmsy	ERmsy-est-ratio	2015	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	1408
M	M-1/yr	2015	0.03
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

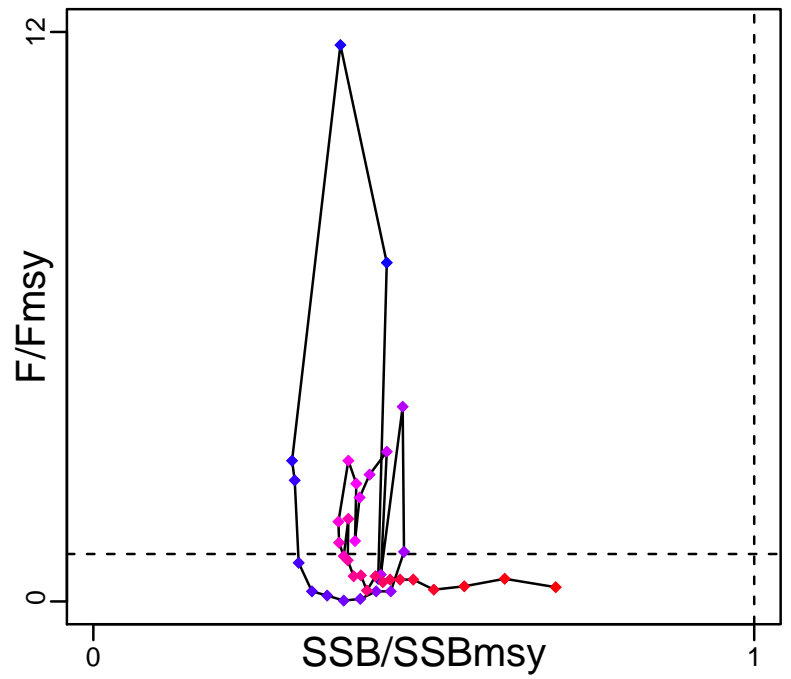
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	40,400	Both	3+
SSB	SSB-MT	2015	6980	Females	3+
TN	-	-	-	-	-
R	R-E00	2015	1,560,000	-	3
F	F-1/yr	2015	0.017	-	-
ER	ER-calc-ratio	2015	0.005	-	-
TC	TC-MT	2015	194		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.7		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2015	0.3		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.084		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

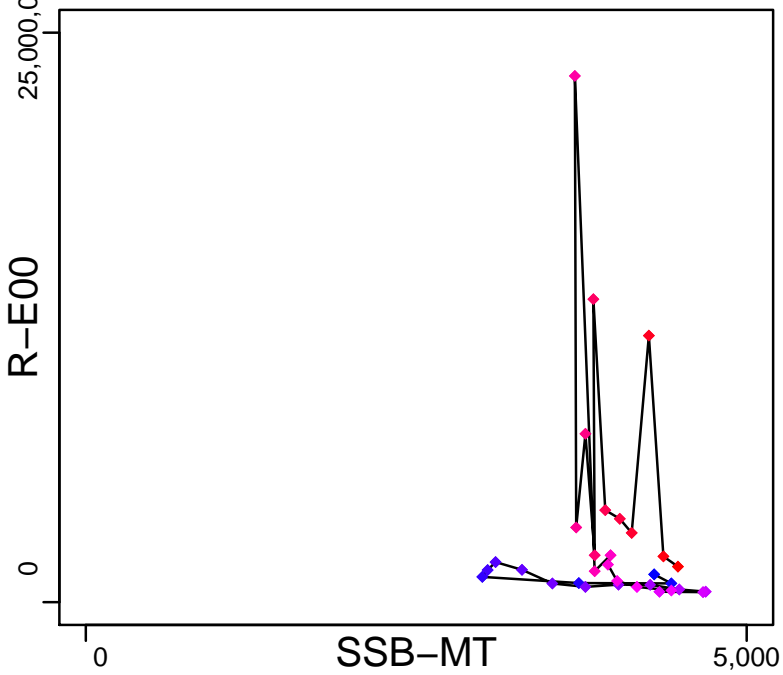
Kobe MSYpref (1974–2015–HIVELY)



Kobe MGTpref (1974–2015–HIVELY)



Spawner Recruit (1974–2015–HIVELY)



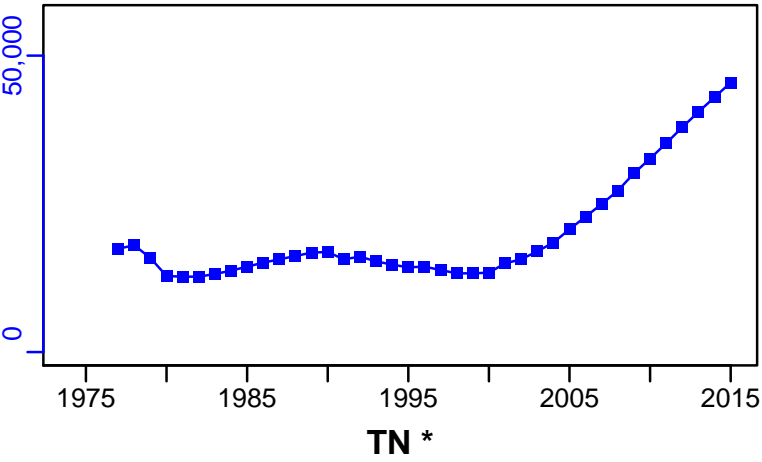
Production*



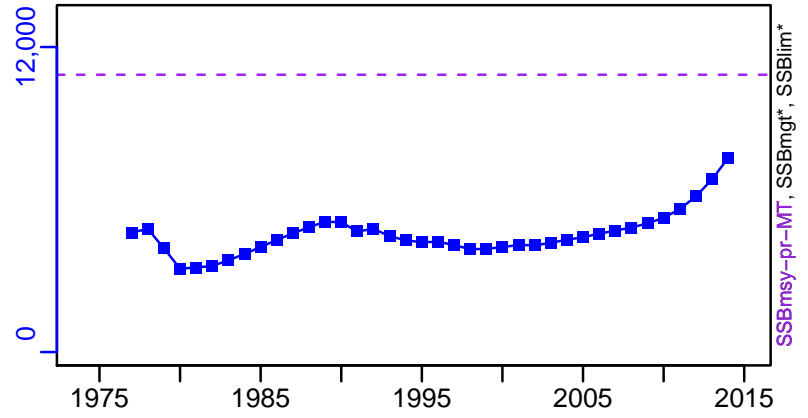
◆ Start Year ◆ End Year * No Data

Roughye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

TB-MT (1974–2015–HIVELY)



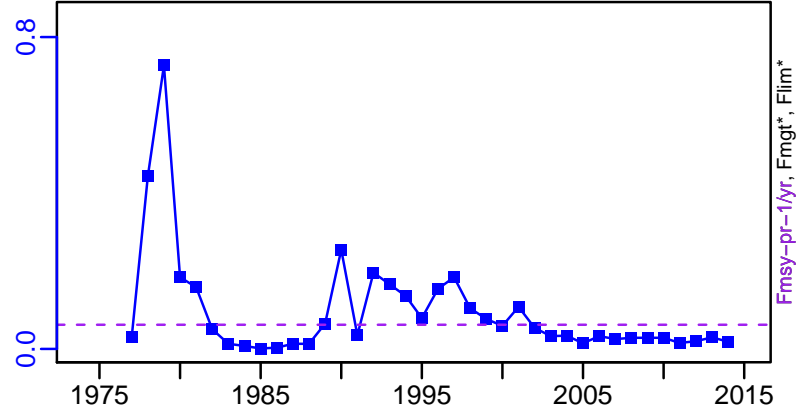
SSB-MT (1974–2015–HIVELY)



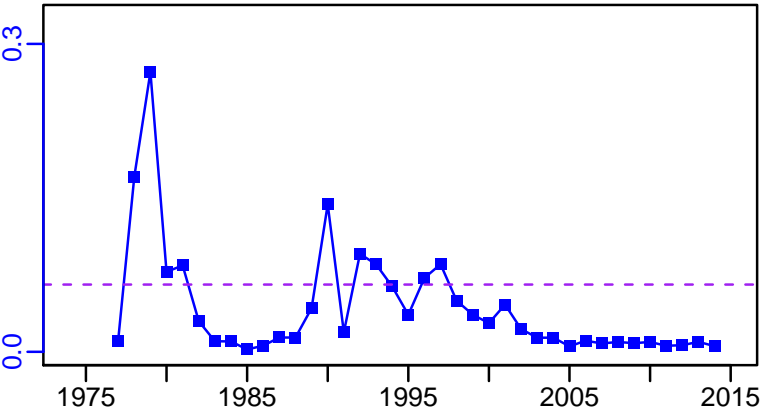
TN *



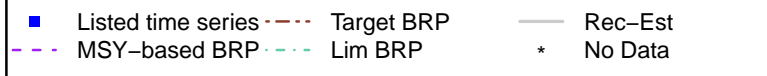
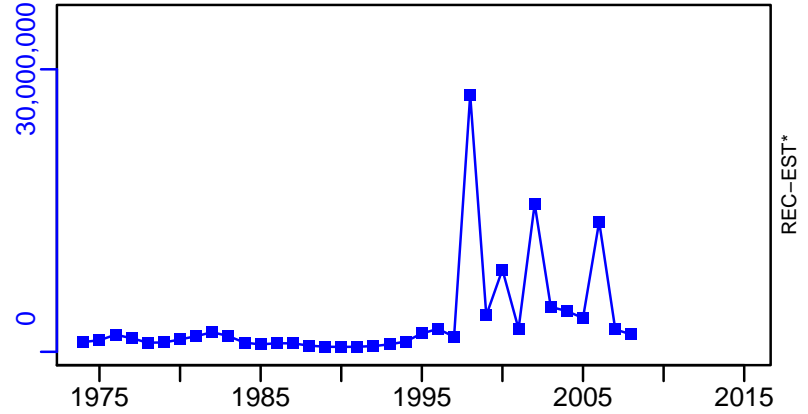
F-1/yr (1974–2015–HIVELY)



ER-calc-ratio (1974–2015–HIVELY)



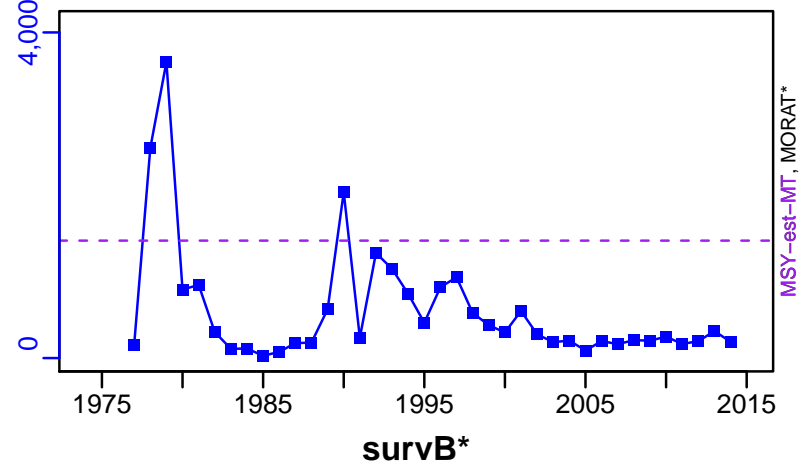
R-E00 (1974–2015–HIVELY)



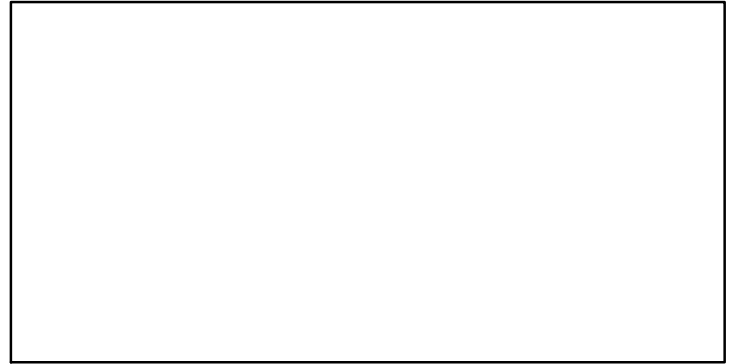
Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

TC-MT, TL*, RecC* (1974-2015-HIVELY)

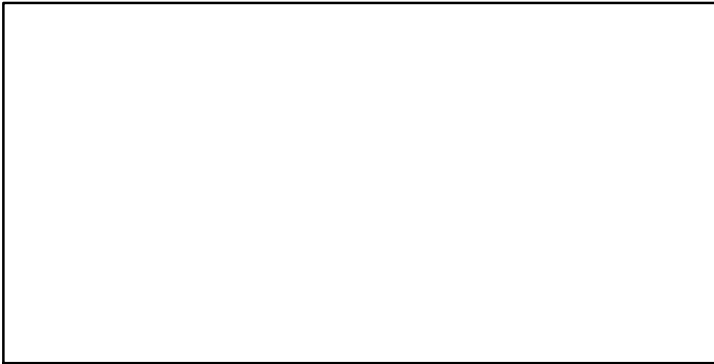
TAC*, Cpair*, Cadv*



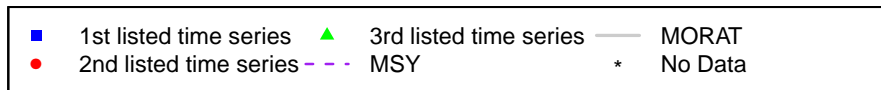
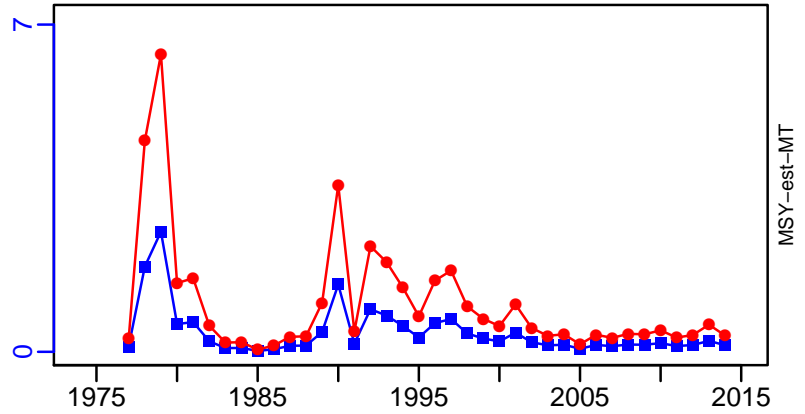
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1974-2015-HIVELY)



Rougheye rockfish Gulf of Alaska [REYEROCKGA]

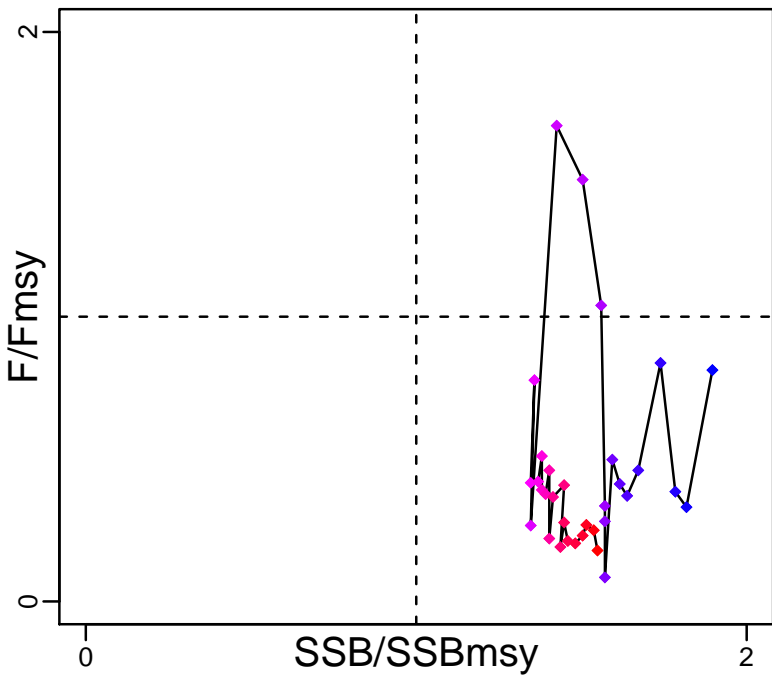
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKGA-1974-2010-STACHURA
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2010	8912
Fmsy	Fmsy-pr-1/yr	2010	0.048
ERmsy	ERmsy-est-ratio	2010	0.014
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	661
M	M-1/yr	2010	0.034
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

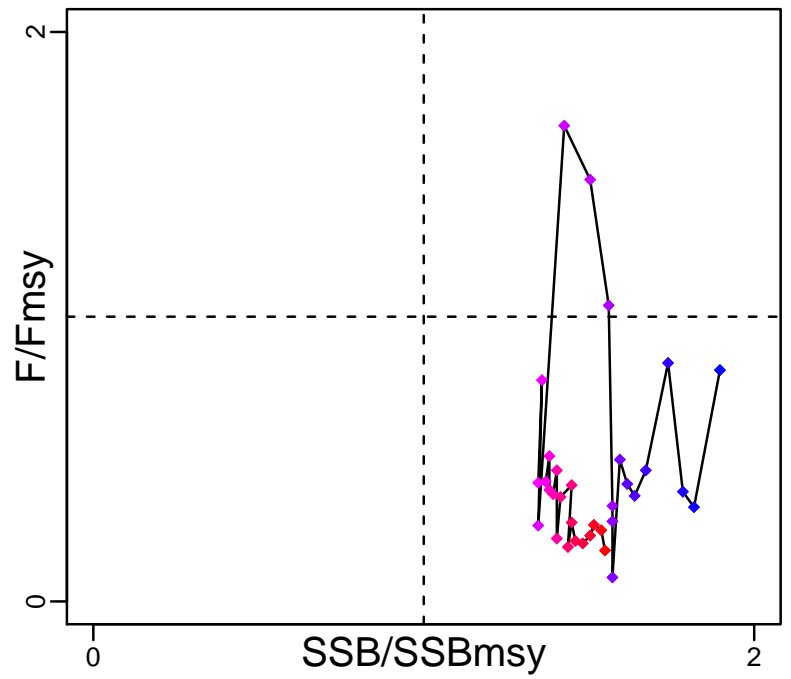
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	45,400	-	-
SSB	SSB-MT	2010	13,800	Females	19+
TN	-	-	-	-	-
R	R-E00	2010	1,160,000	-	-
F	F-1/yr	2010	0.009	-	-
ER	ER-ratio	2010	0.006	-	-
TC	TC-MT	2010	445		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2010	1.548		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.179		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.448		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rougheye rockfish Gulf of Alaska [REYEROCKGA]

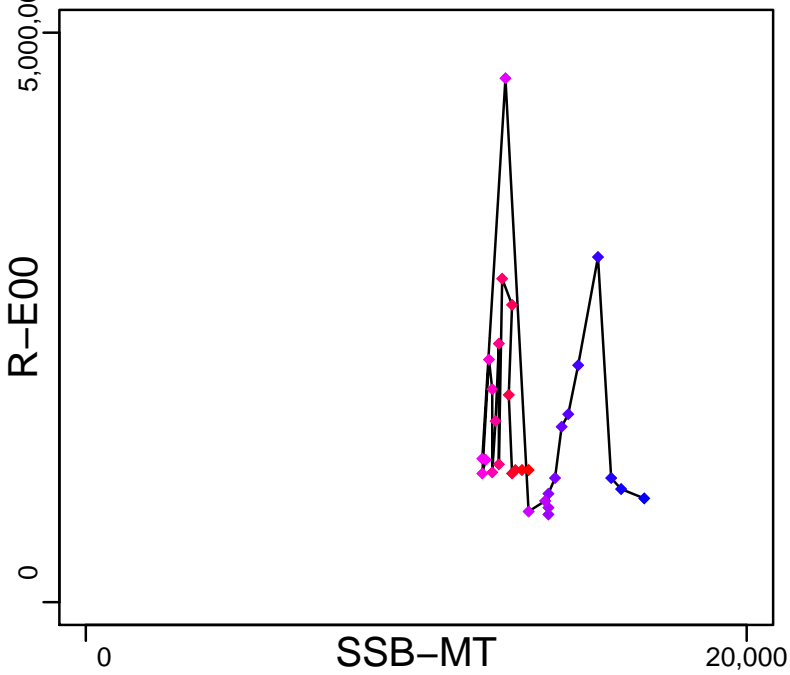
Kobe MSYpref (1974–2010–STACHURA)



Kobe MGTpref (1974–2010–STACHURA)



Spawner Recruit (1974–2010–STACHURA)



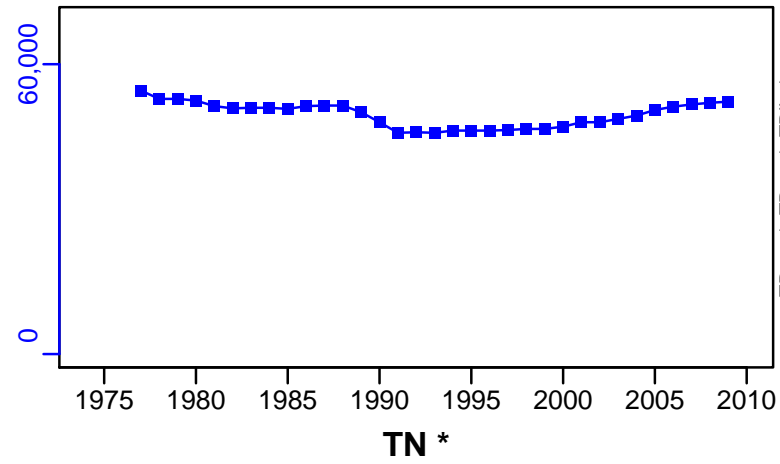
Production*



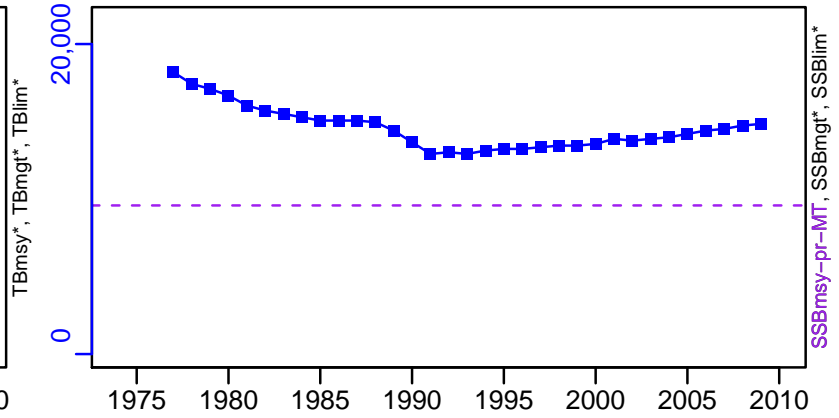
◆ Start Year ◆ End Year * No Data

Rougheye rockfish Gulf of Alaska [REYEROCKGA]

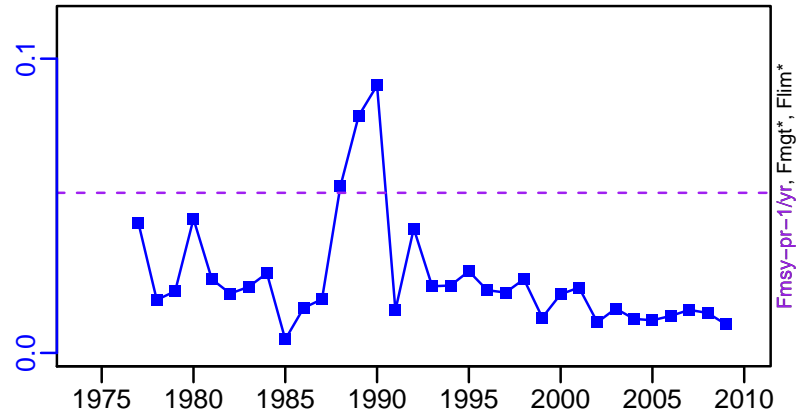
TB-MT (1974–2010–STACHURA)



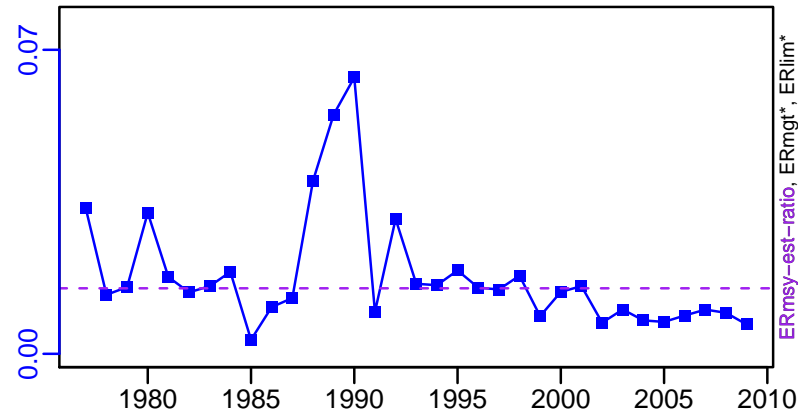
SSB-MT (1974–2010–STACHURA)



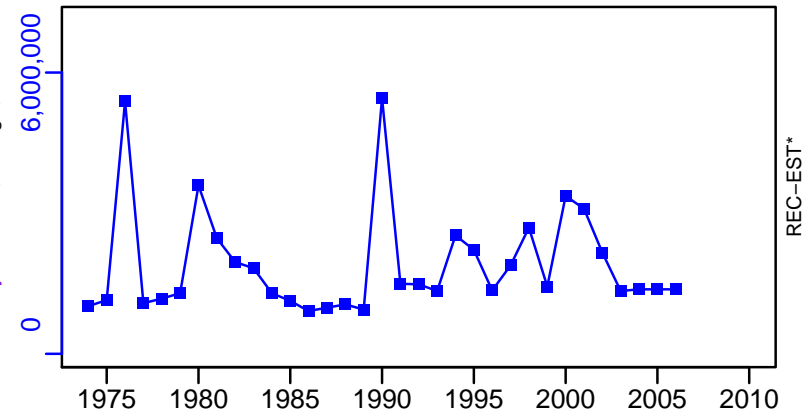
F-1/yr (1974–2010–STACHURA)



ER-ratio (1974–2010–STACHURA)

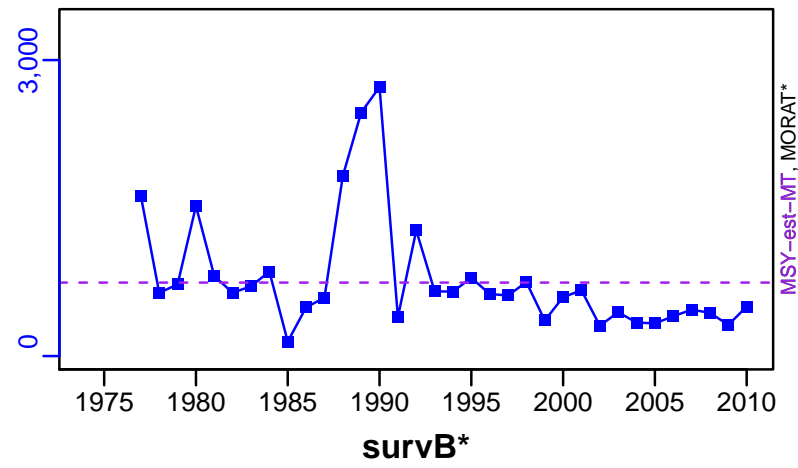


R-E00 (1974–2010–STACHURA)



Roughey rockfish Gulf of Alaska [REYEROCKGA]

TC-MT, TL*, RecC* (1974-2010-STACHURA)



TAC*, Cpair*, Cadv*



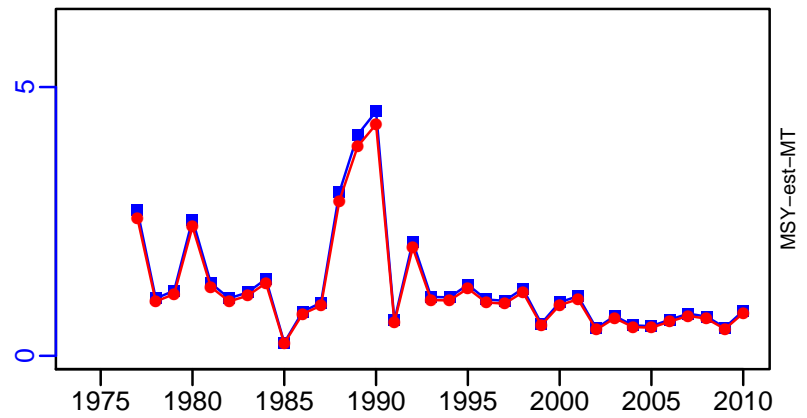
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1974-2010-STACHURA)



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

Red king crab Aleutian Islands Western segment [RKCRAIBAIWS]

Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRAIBAIWS-1961-2017-SISIMP2021
Area	Aleutian Islands Western segment
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2017, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



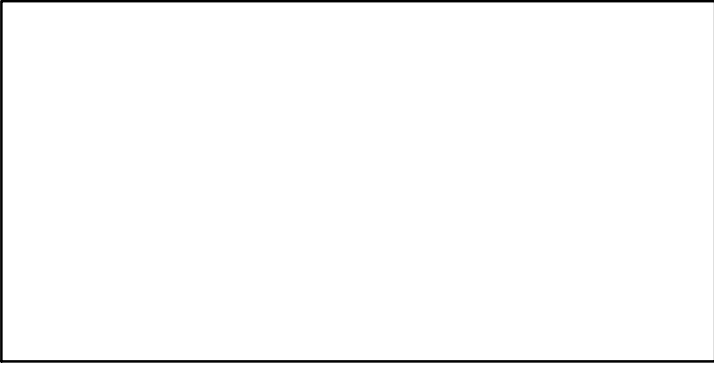
Production*



◆ Start Year ◆ End Year * No Data

Red king crab Aleutian Islands Western segment [RKCRABAIWS]

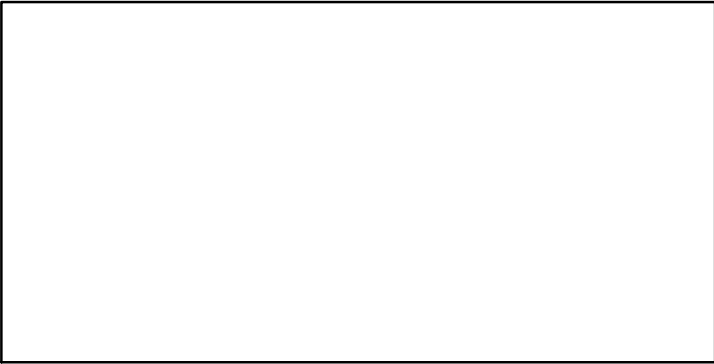
TB*



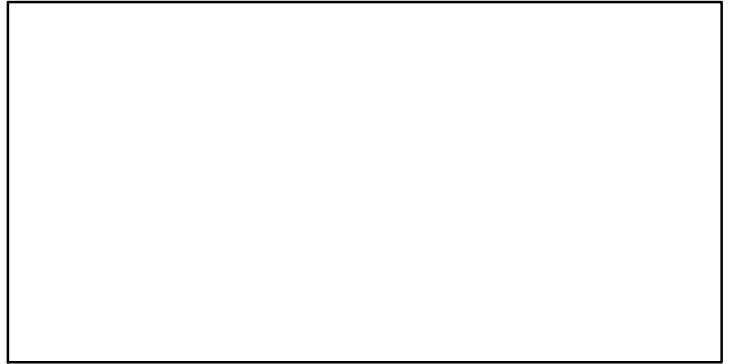
SSB*



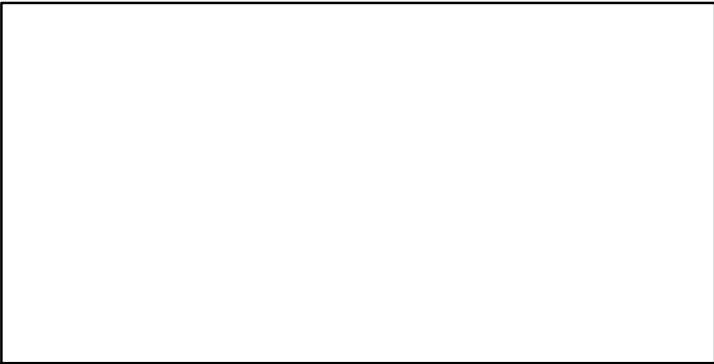
TN *



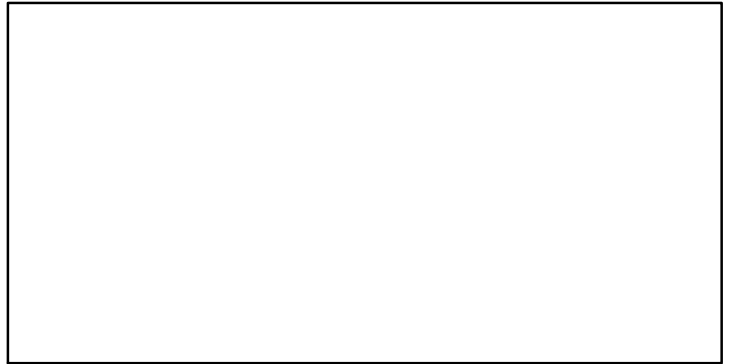
F*



ER*



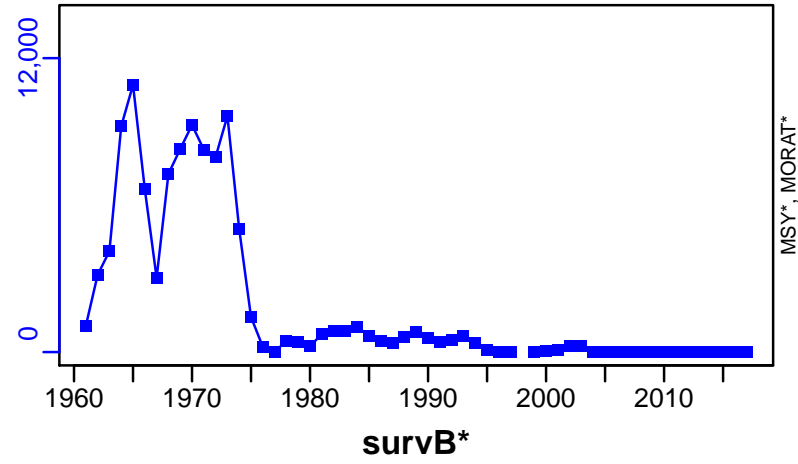
Recruits*



Red king crab Aleutian Islands Western segment [RKCRABAIWS]

TC-MT, TL*, RecC* (1961-2017-SISIMP2021)

TAC*, Cpair*, Cadv*



Red king crab Bristol Bay [RKCRA BBB]

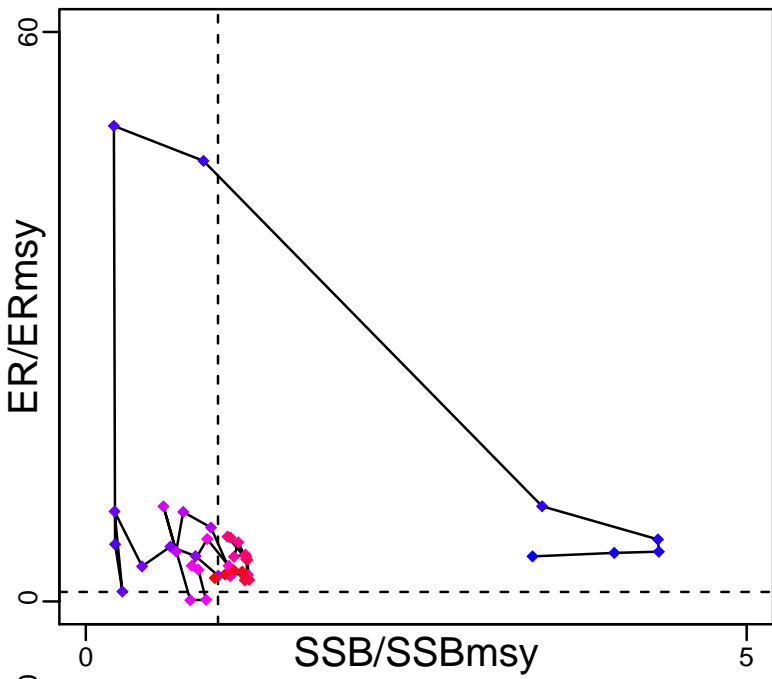
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRA BBB-1953-2018-SISIMP2021
Area	Bristol Bay
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2018, 2008, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	26,100
SSBmsy	SSBmsy-MT	2018	25,500
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2008	0.33
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2008	23,646
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	12,740
Flim	-	-	-
ERlim	-	-	-

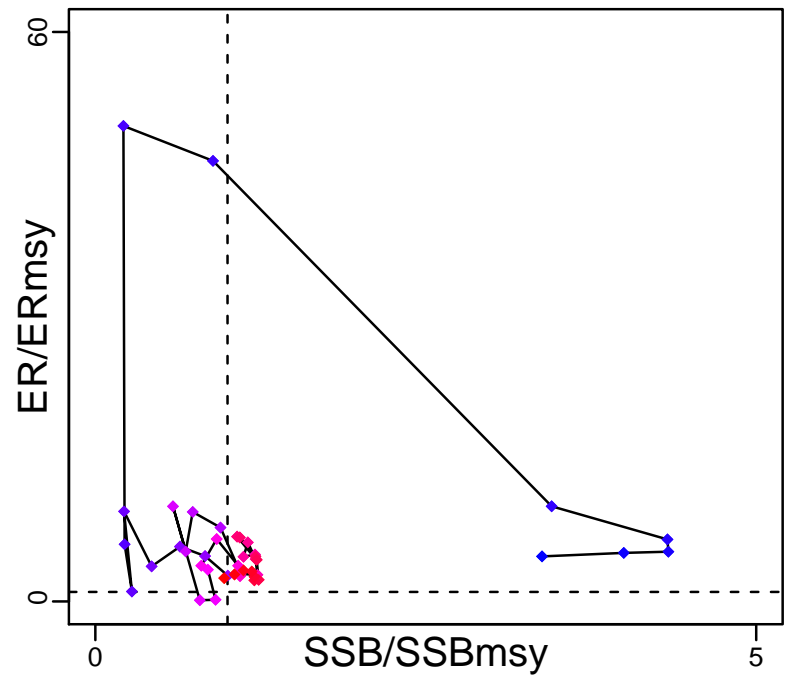
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	86,100	-	-
SSB	SSB-MT	2018	20,804	-	-
TN	-	-	-	-	-
R	R-E00	2018	14,641,000	-	-
F	F-1/yr	2016	0.167	-	-
ER	ER-calc-ratio	2018	0.173	-	-
TC	TC-MT	2018	3481		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	3.299		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.816		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-pr-ratio	2008	1.055		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Bristol Bay [RKCRA BBB]

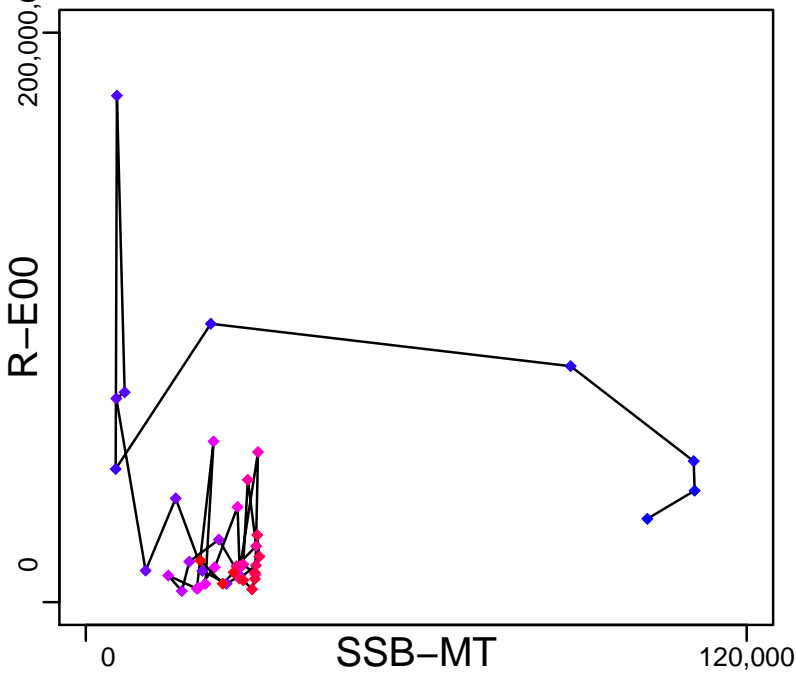
Kobe MSYpref (1953–2018–SISIMP2021)



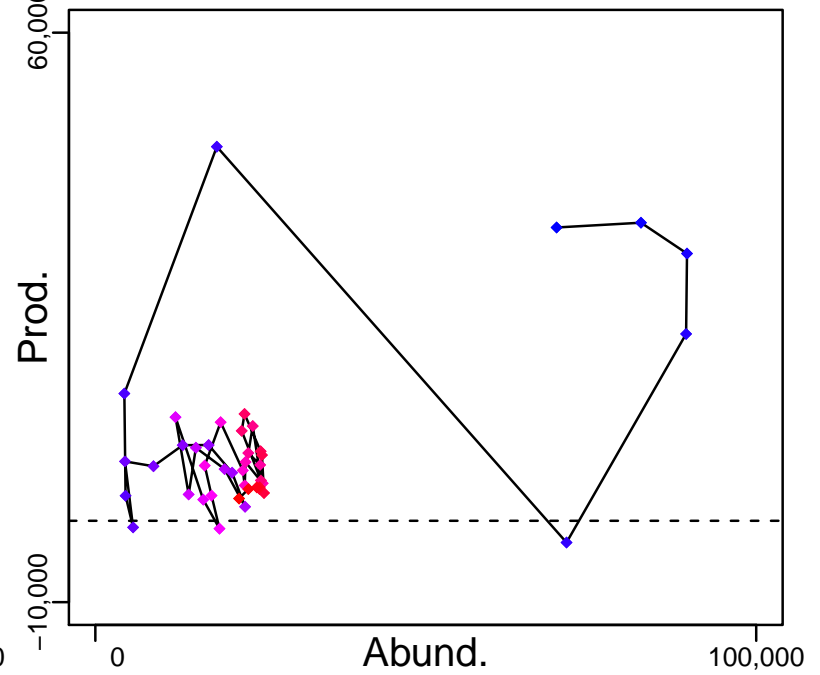
Kobe MGTpref (1953–2018–SISIMP2021)



Spawner Recruit (1953–2018–SISIMP2021)



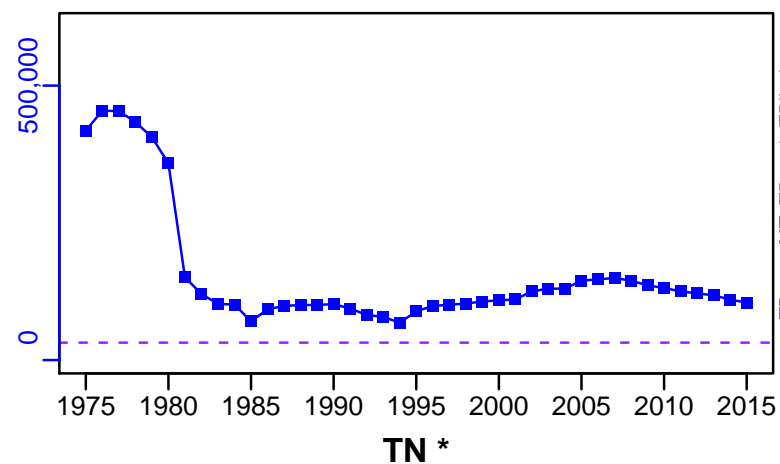
Production (1953–2018–SISIMP2021)



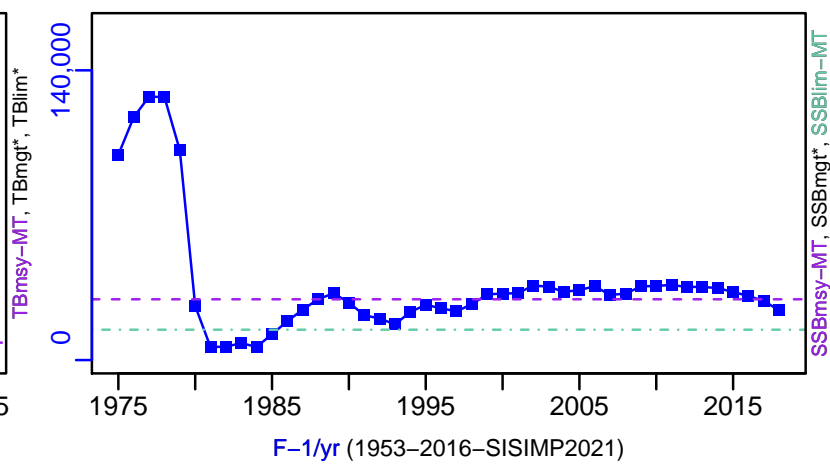
◆ Start Year ◆ End Year * No Data

Red king crab Bristol Bay [RKCRABBB]

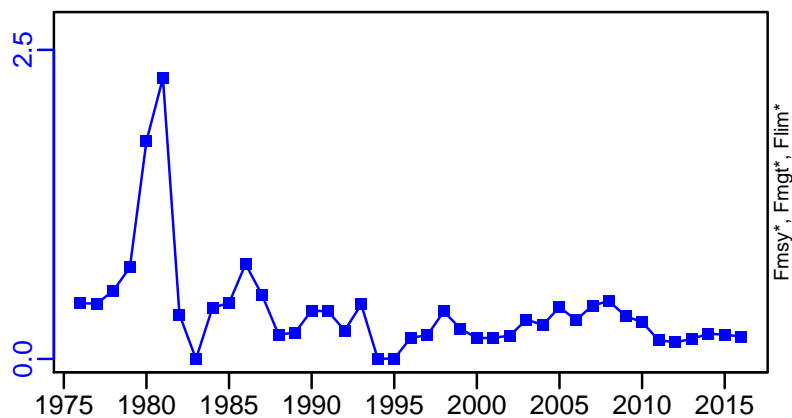
TB-MT (1975–2015–SISIMP2016)



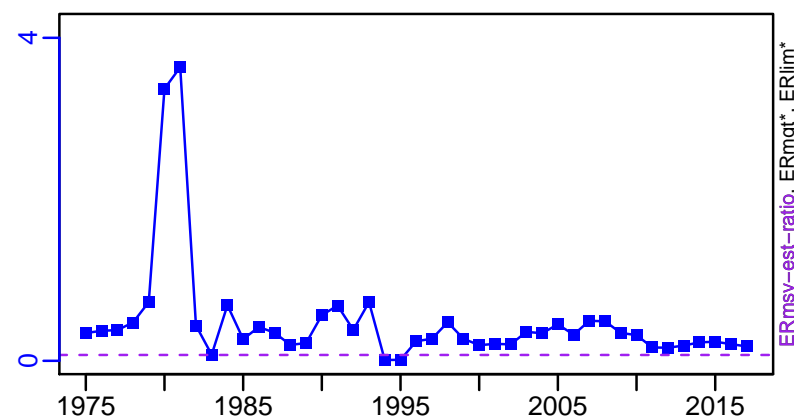
SSB-MT (1953–2018–SISIMP2021)



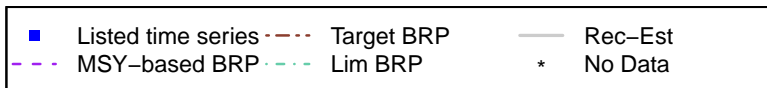
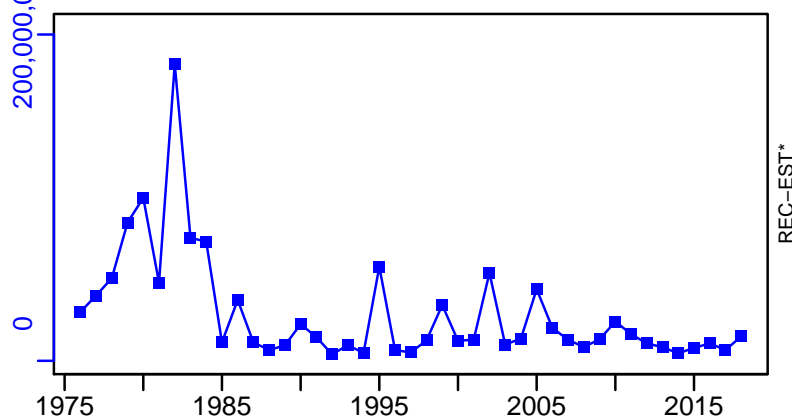
F-1/yr (1953–2016–SISIMP2021)



ER-calc-ratio (1953–2018–SISIMP2021)

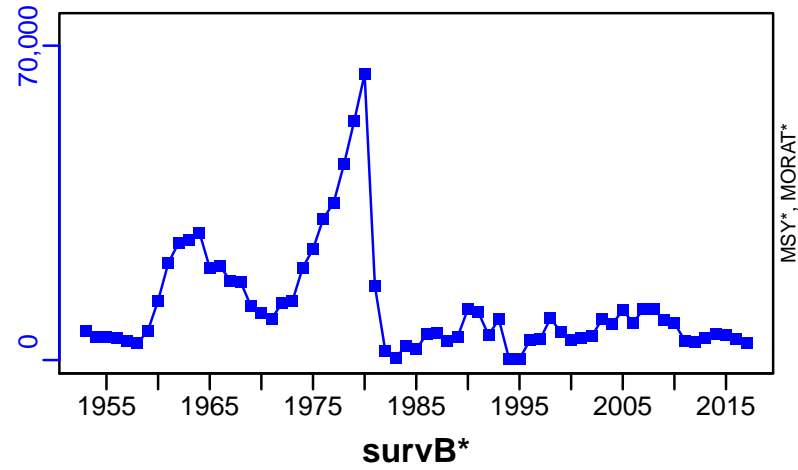


R-E00 (1953–2018–SISIMP2021)



Red king crab Bristol Bay [RKCRA BBB]

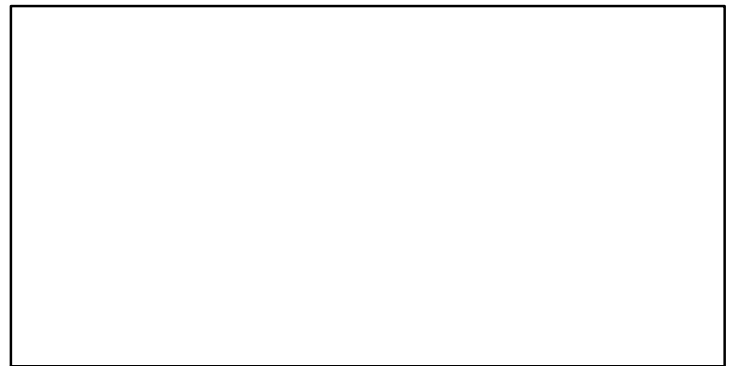
TC-MT, TL*, RecC* (1953-2018-SISIMP2021)



TAC*, Cpair*, Cadv*



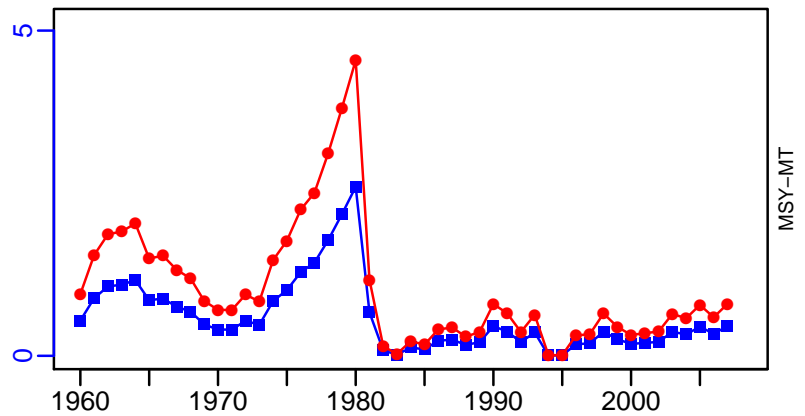
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1960-2008-JENSEN)



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

Red king crab Norton Sound [RKCABNS]

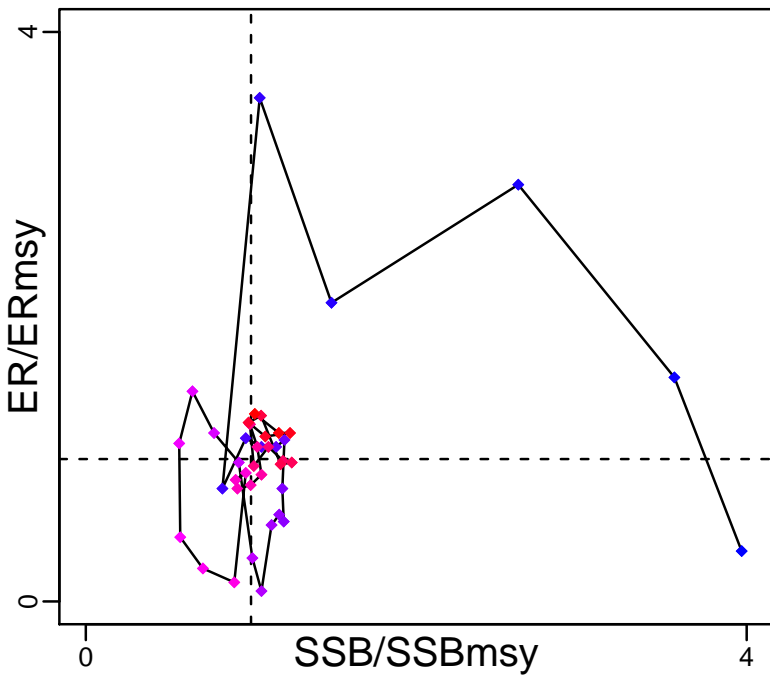
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCABNS-1976-2017-SISIMP2021
Area	Norton Sound
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	1618
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2017	0.082
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2017	322,584
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

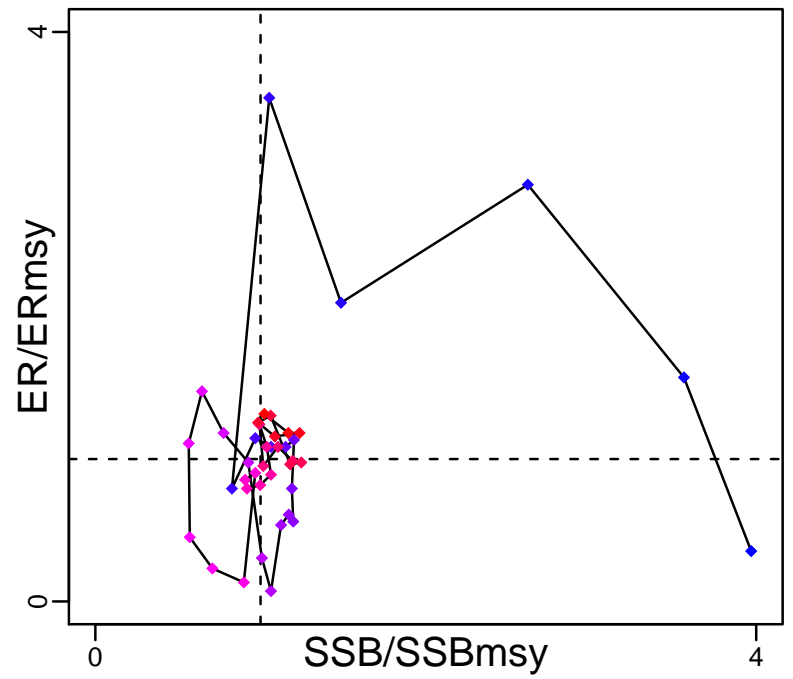
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	4,850,000	-	-
TN	-	-	-	-	-
R	R-E00	2017	720,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.108	-	-
TC	TC-MT	2017	522,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.471		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2017	1.317		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Norton Sound [RKCRABNS]

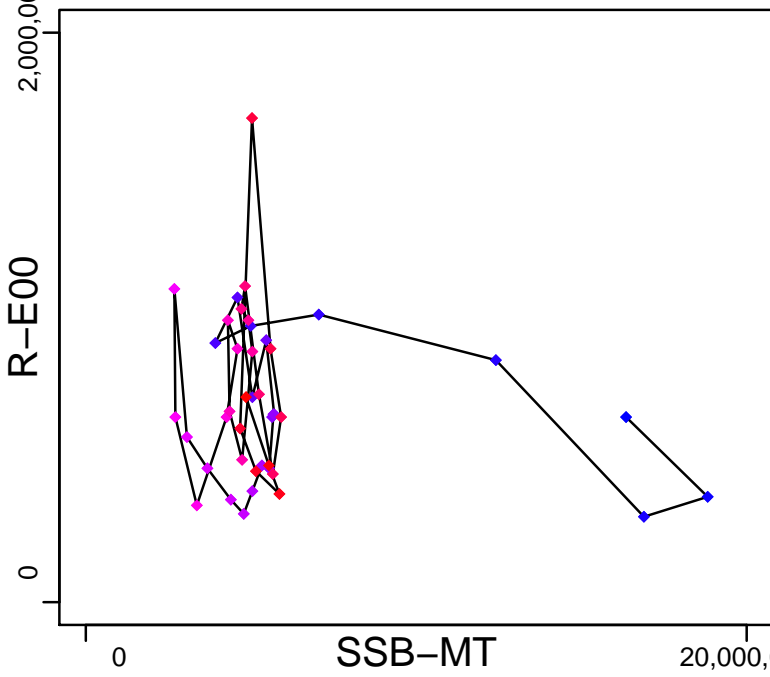
Kobe MSYpref (1976–2017–SISIMP2021)



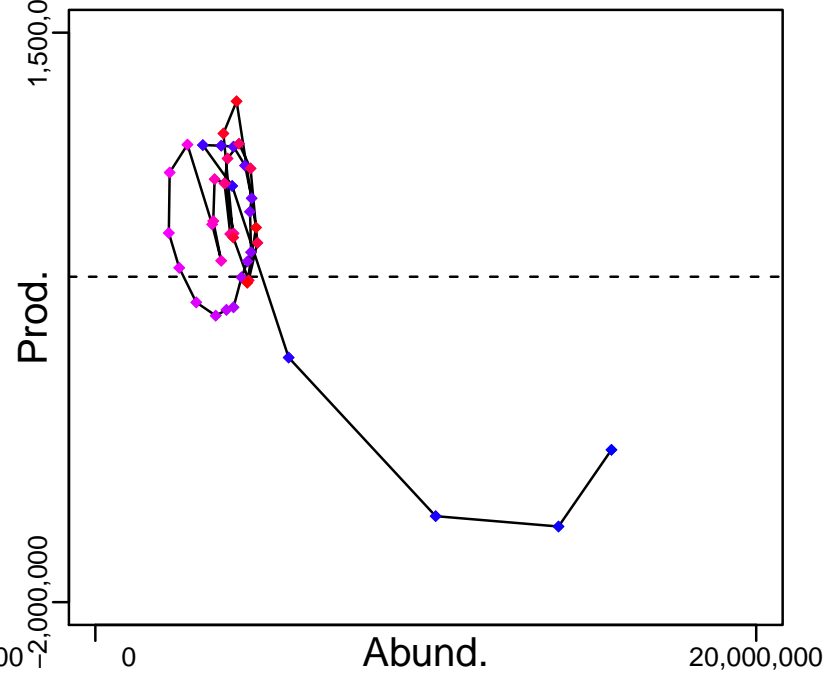
Kobe MGTpref (1976–2017–SISIMP2021)



Spawner Recruit (1976–2017–SISIMP2021)



Production (1976–2017–SISIMP2021)



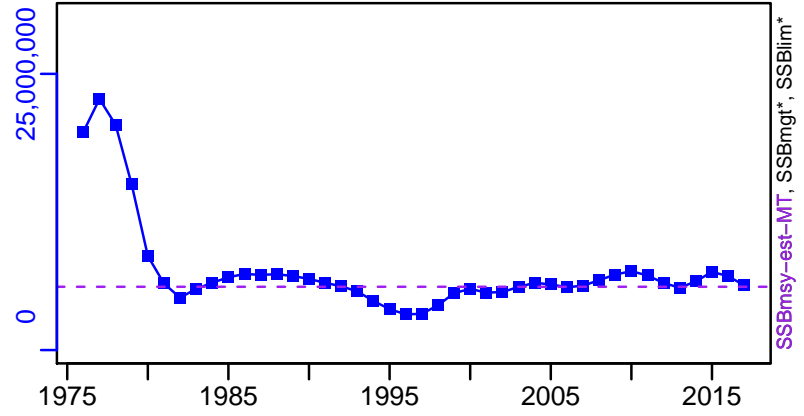
◆ Start Year ◆ End Year * No Data

Red king crab Norton Sound [RKCRABNS]

TB*



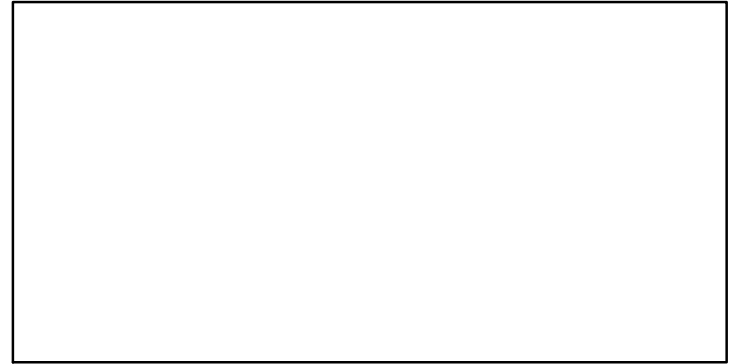
SSB-MT (1976–2017–SISIMP2021)



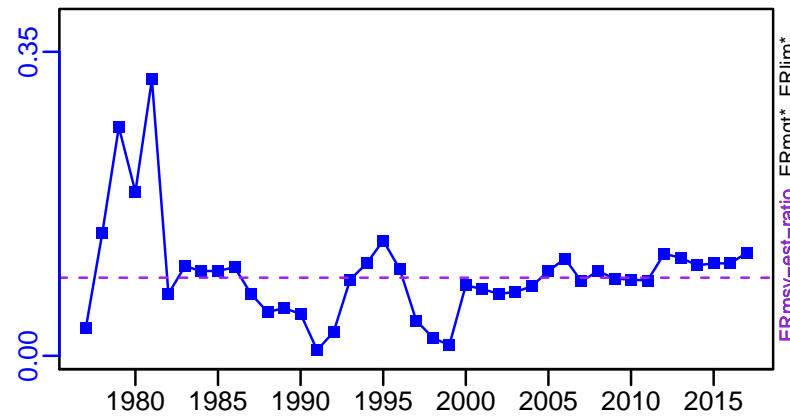
TN *



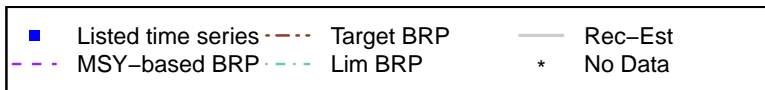
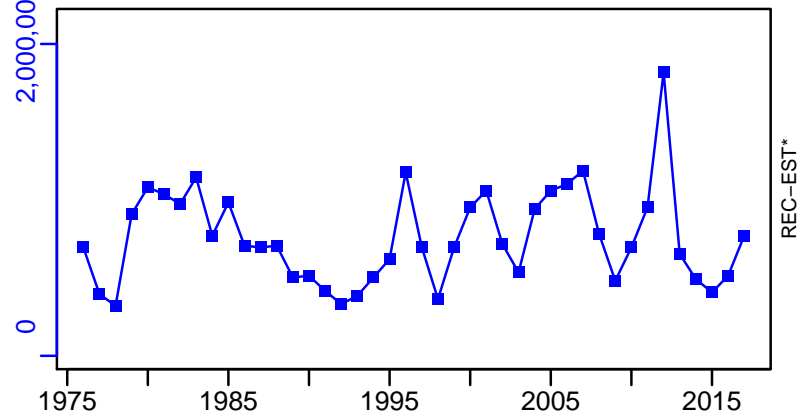
F*



ER-ratio (1976–2017–SISIMP2021)



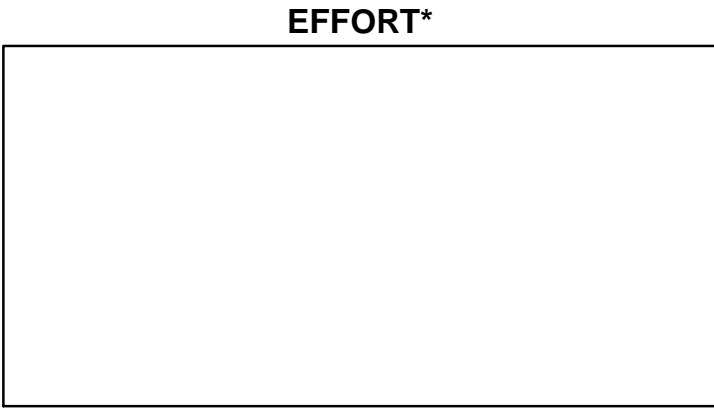
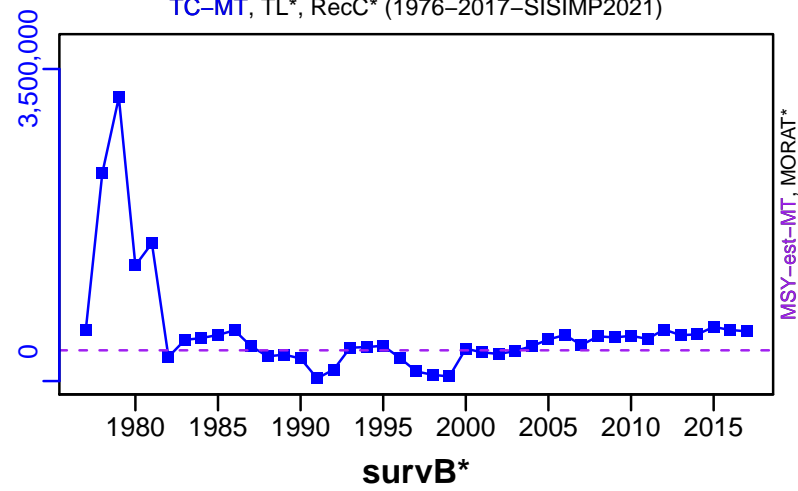
R-E00 (1976–2017–SISIMP2021)



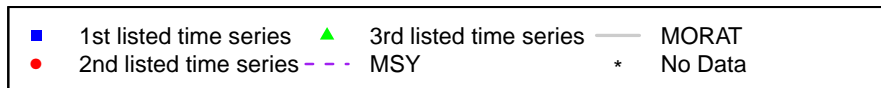
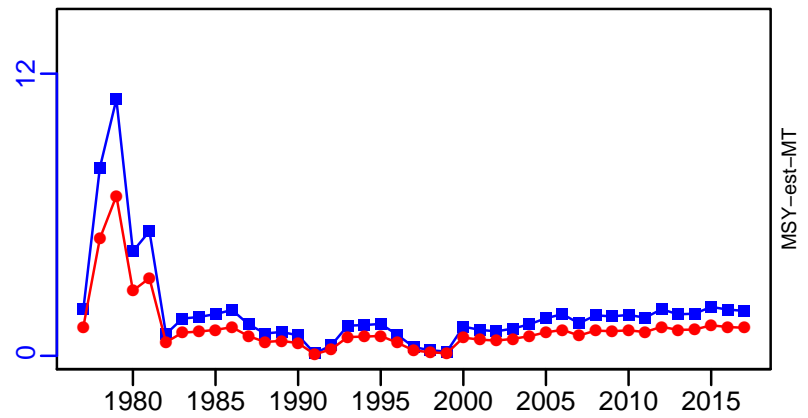
Red king crab Norton Sound [RKCRABNS]

TC-MT, TL*, RecC* (1976-2017-SISIMP2021)

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1976-2017-SISIMP2021)



Red king crab Pribilof Islands [RKCRAPI]

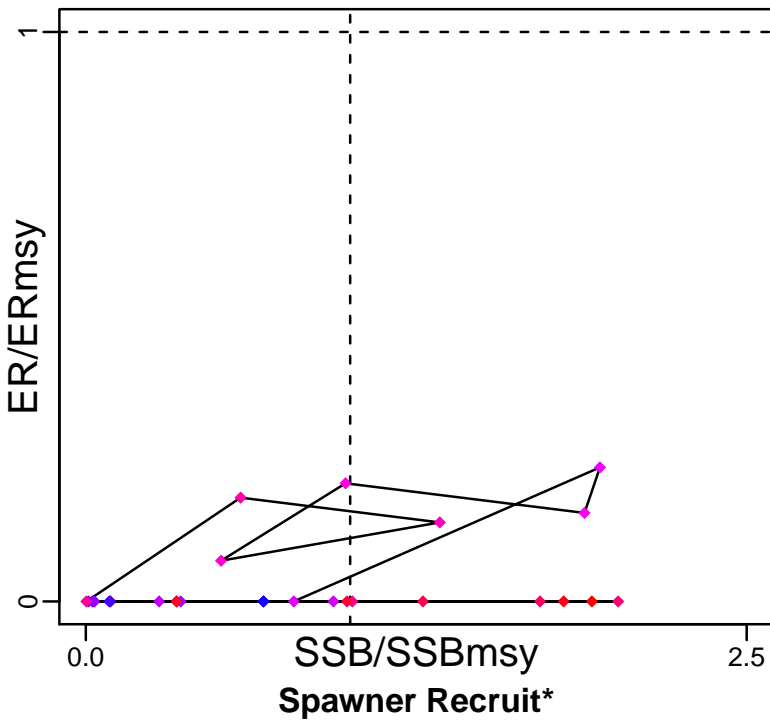
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRAPI-1991-2016-SISIMP2021
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009, 2016, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2009	3928
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2009	0.392
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2009	1485
M	M-1/yr	2009	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

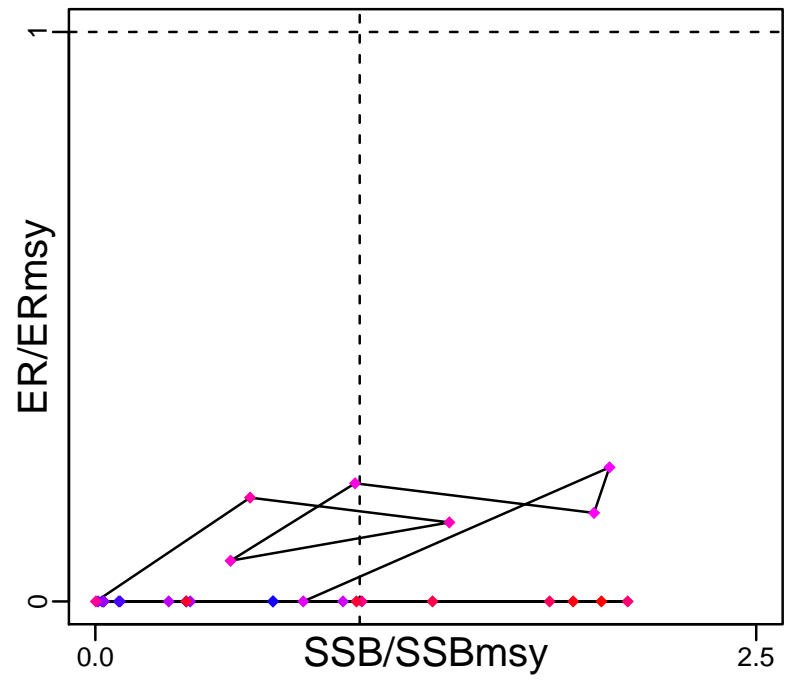
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	7790	-	-
SSB	SSB-MT	2009	5670	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2009	0	-	-
TC	TC-MT	2016	0.49		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.443		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2009	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Pribilof Islands [RKCRAPI]

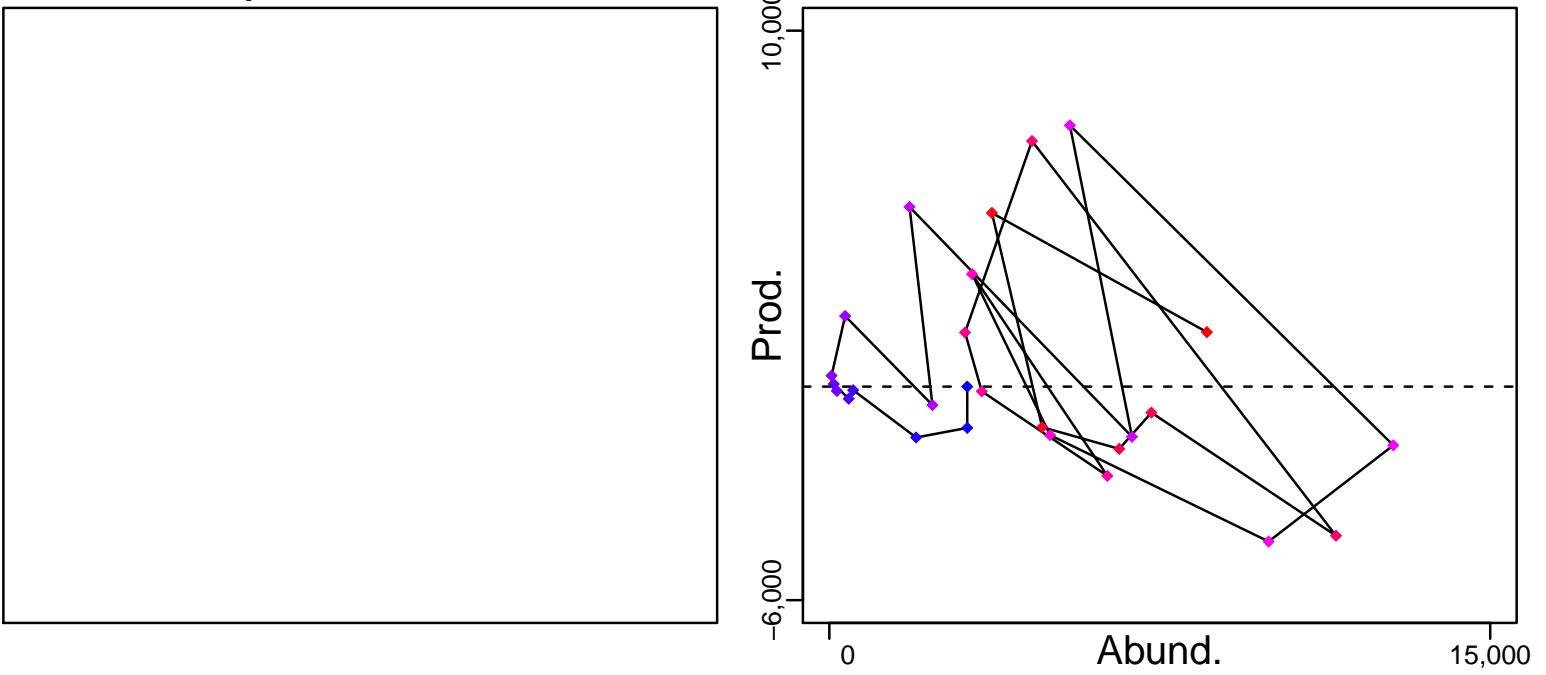
Kobe MSYpref (1981–2009–JENSEN)



Kobe MGTpref (1981–2009–JENSEN)



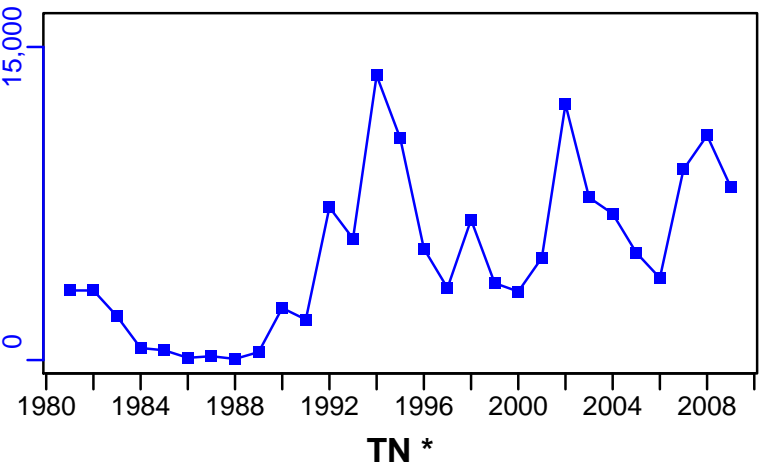
Production (1981–2009–JENSEN)



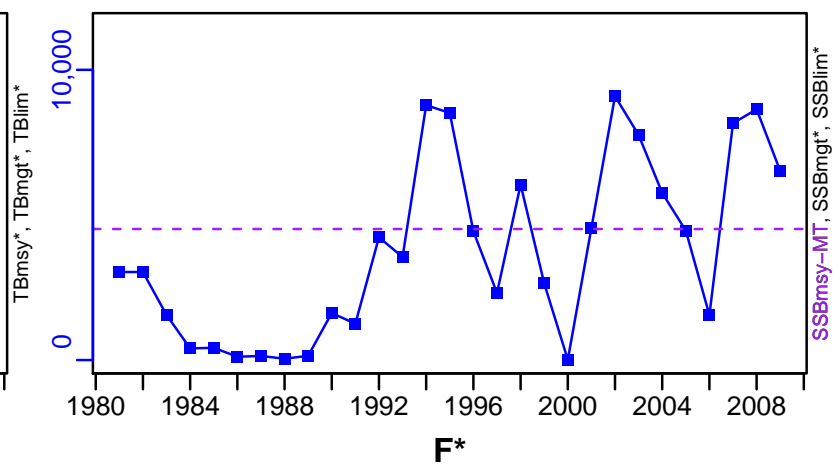
◆ Start Year ◆ End Year * No Data

Red king crab Pribilof Islands [RKCRABPI]

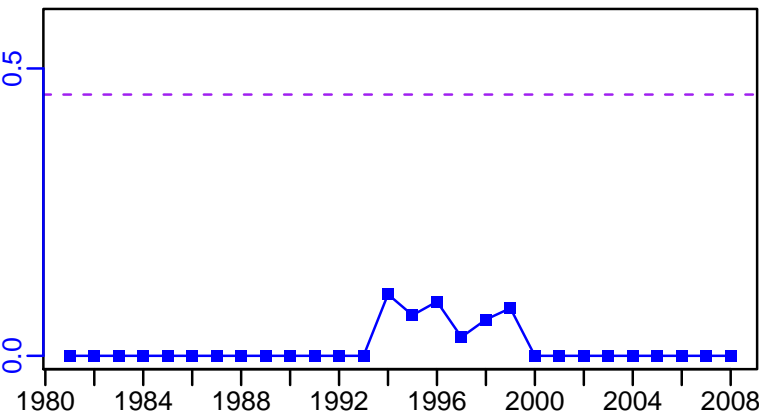
TB-MT (1981-2009-JENSEN)



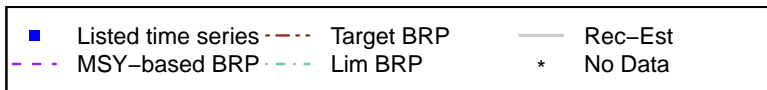
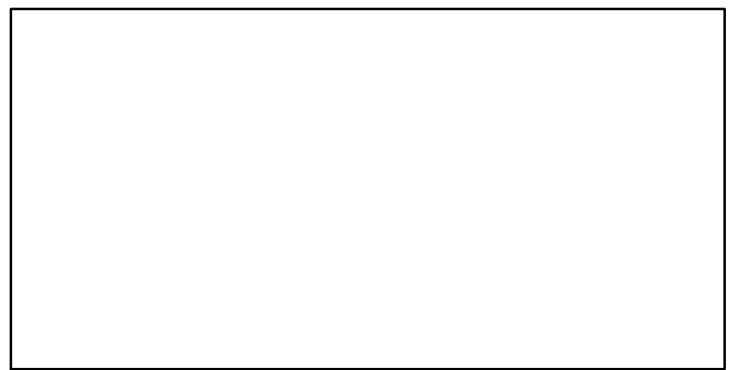
SSB-MT (1981-2009-JENSEN)



ER-calc-ratio (1981-2009-JENSEN)

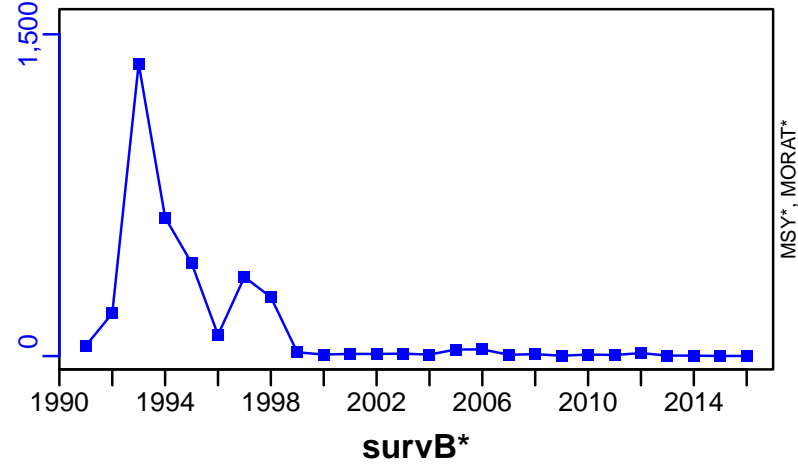


Recruits*



Red king crab Pribilof Islands [RKCRABPI]

TC-MT, TL*, RecC* (1991-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



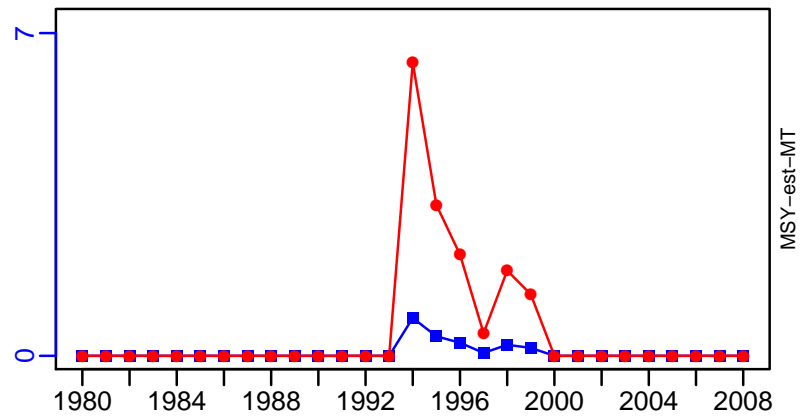
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1981-2009-JENSEN)



Rock sole Gulf of Alaska [RSOLEGA]

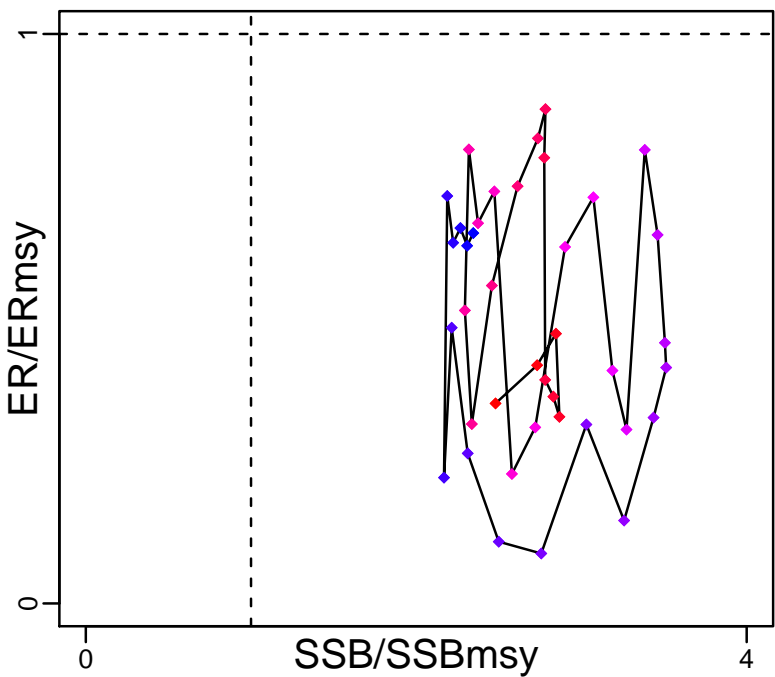
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	AFSC-RSOLEGA-1977-2016-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	32,700
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.029
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1505
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.243
ERlim	-	-	-

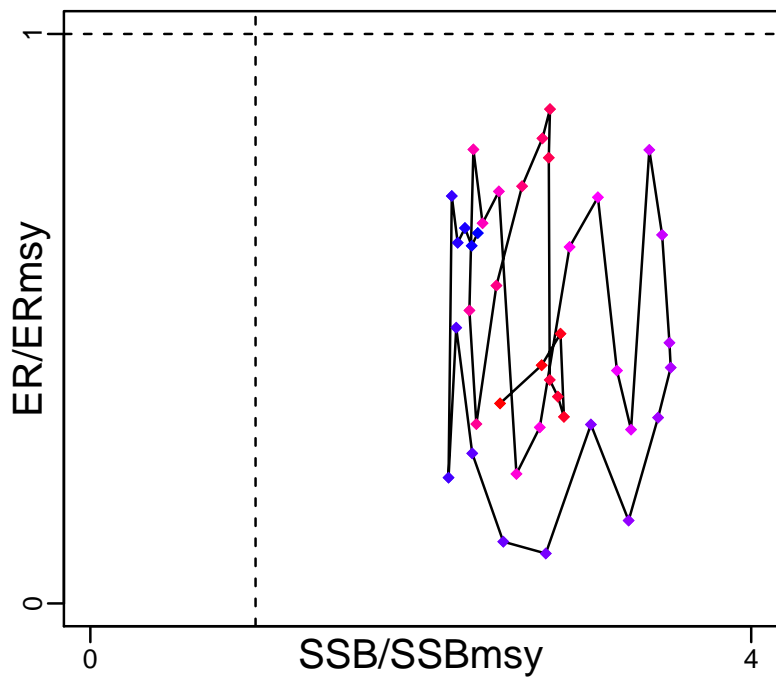
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	156,000	-	3+
SSB	SSB-MT	2016	75,853	-	-
TN	-	-	-	-	-
R	R-E00	2016	221,642,000	-	0
F	F-1/yr	2016	0.014	-	-
ER	ER-calc-ratio	2016	0.01	-	-
TC	TC-MT	2016	1311		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.32		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.351		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Gulf of Alaska [RSOLEGA]

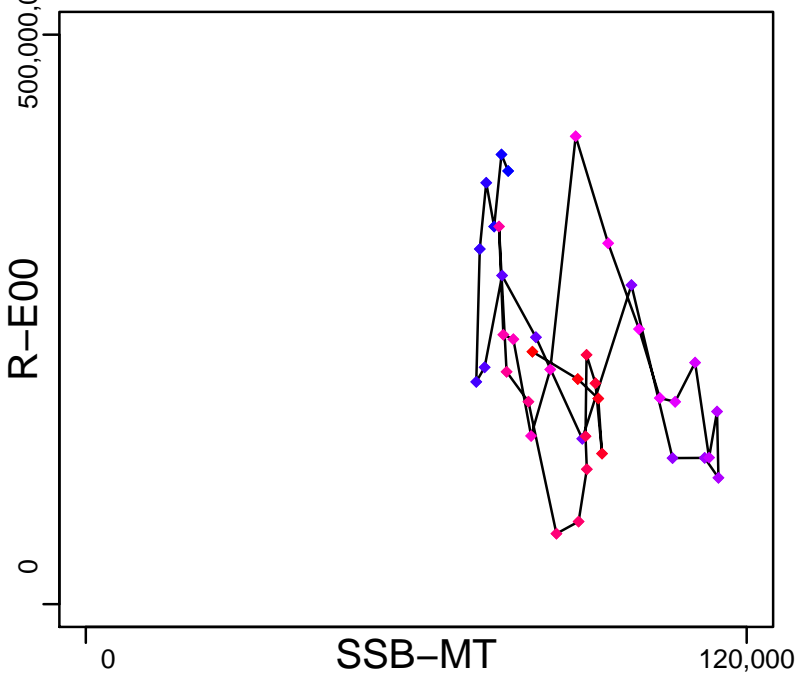
Kobe MSY_{pref} (1977–2016–SISIMP2021)



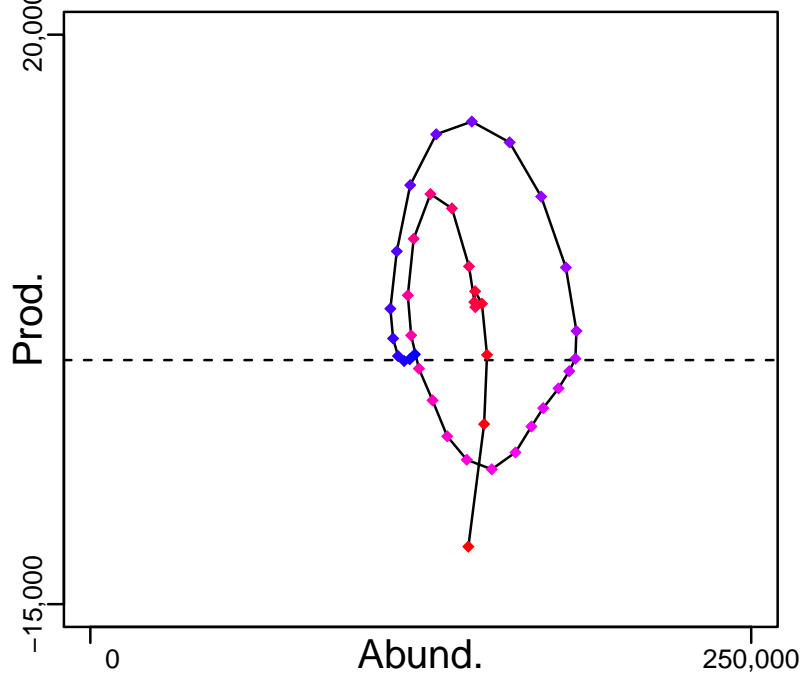
Kobe MGT_{pref} (1977–2016–SISIMP2021)



Spawner Recruit (1977–2016–SISIMP2021)



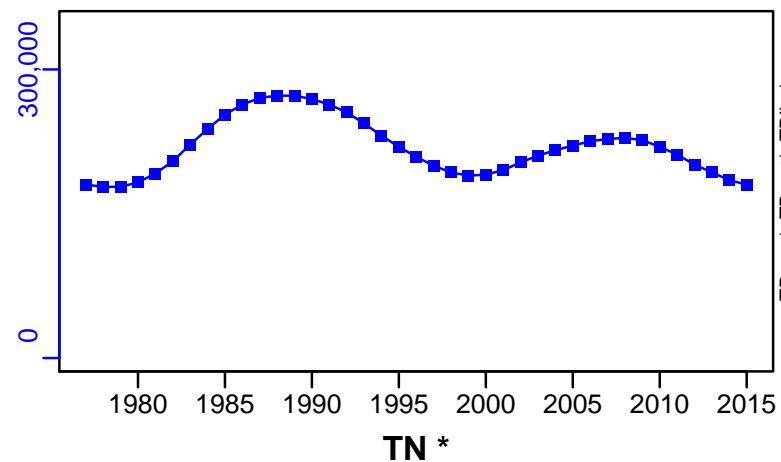
Production (1977–2016–SISIMP2021)



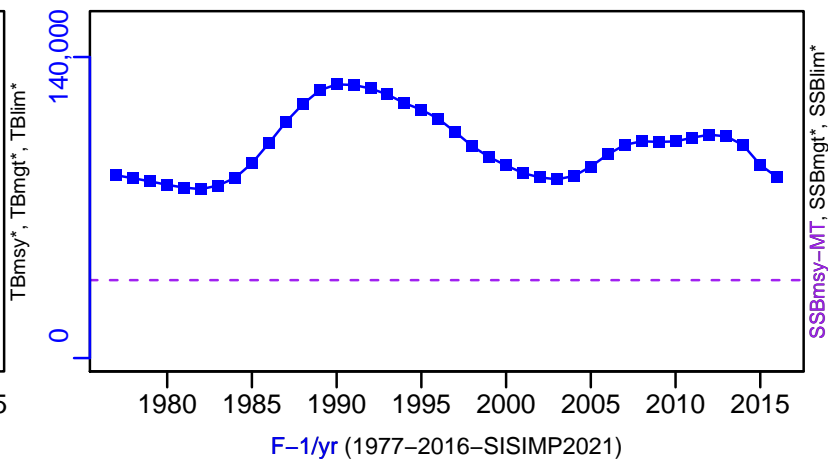
◆ Start Year ◆ End Year * No Data

Rock sole Gulf of Alaska [RSOLEGA]

TB-MT (1977-2015-SISIMP2016)



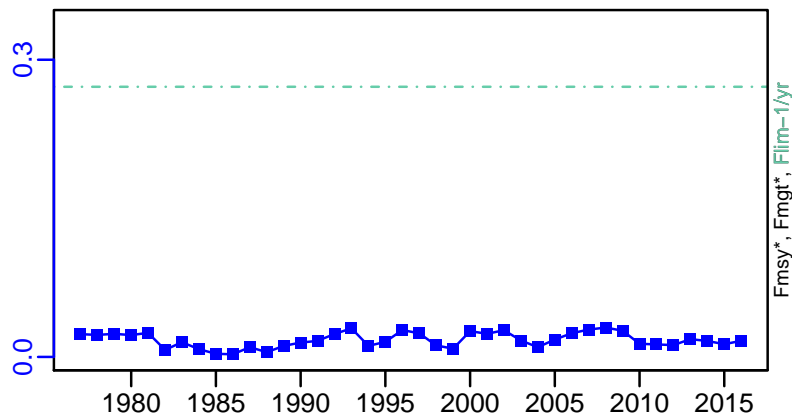
SSB-MT (1977-2016-SISIMP2021)



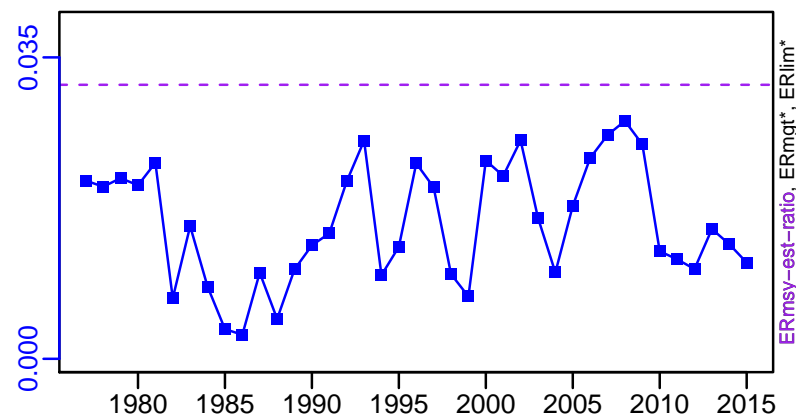
TN *



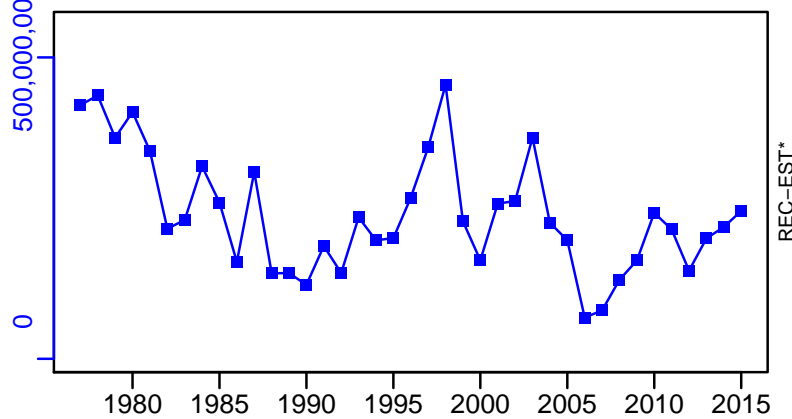
F-1/yr (1977-2016-SISIMP2021)



ER-calc-ratio (1977-2016-SISIMP2021)



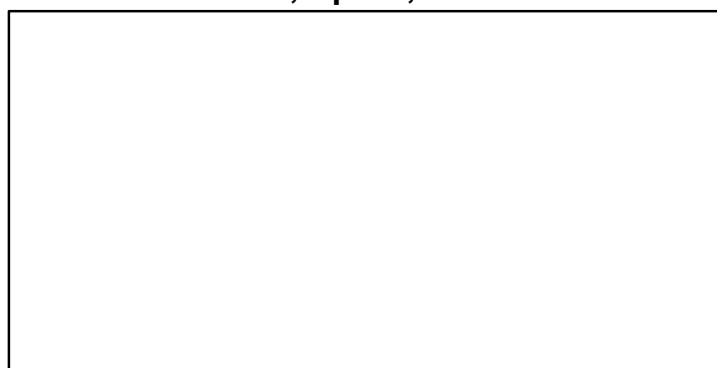
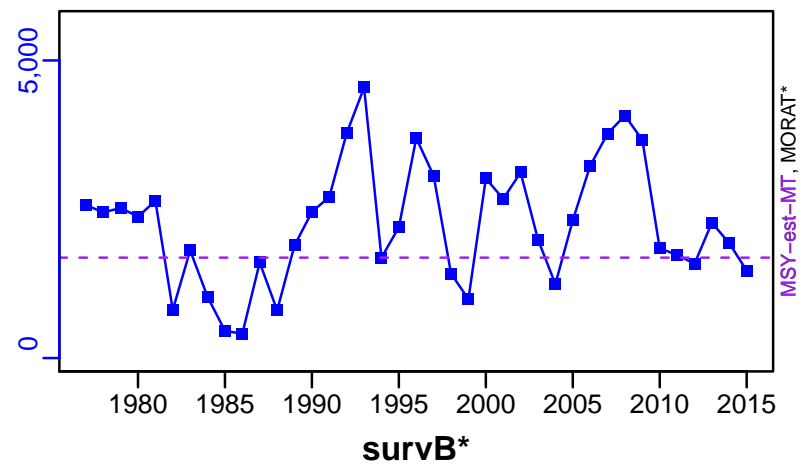
R-E00 (1977-2016-SISIMP2021)



Rock sole Gulf of Alaska [RSOLEGA]

TC-MT, TL*, RecC* (1977-2016-SISIMP2021)

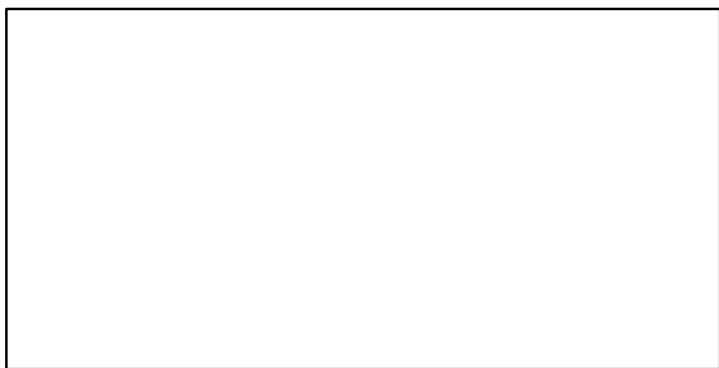
TAC*, Cpair*, Cadv*



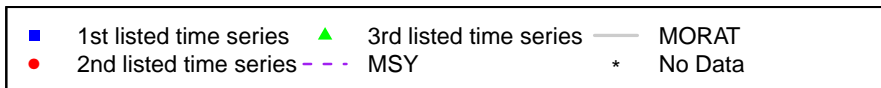
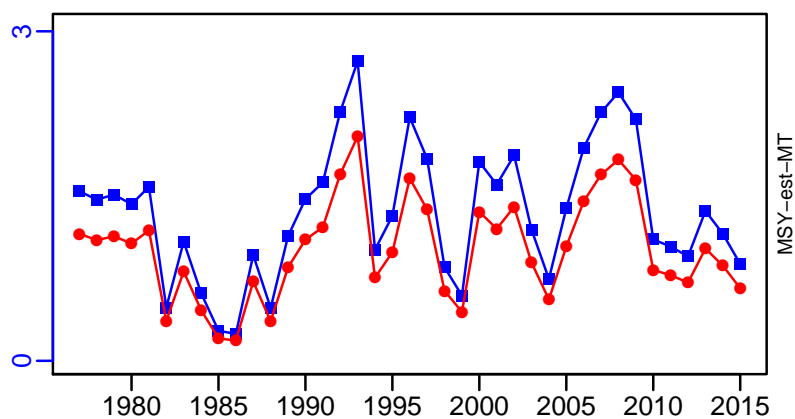
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2016-SISIMP2021)



Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska
[SABLEFEBSAIGA]

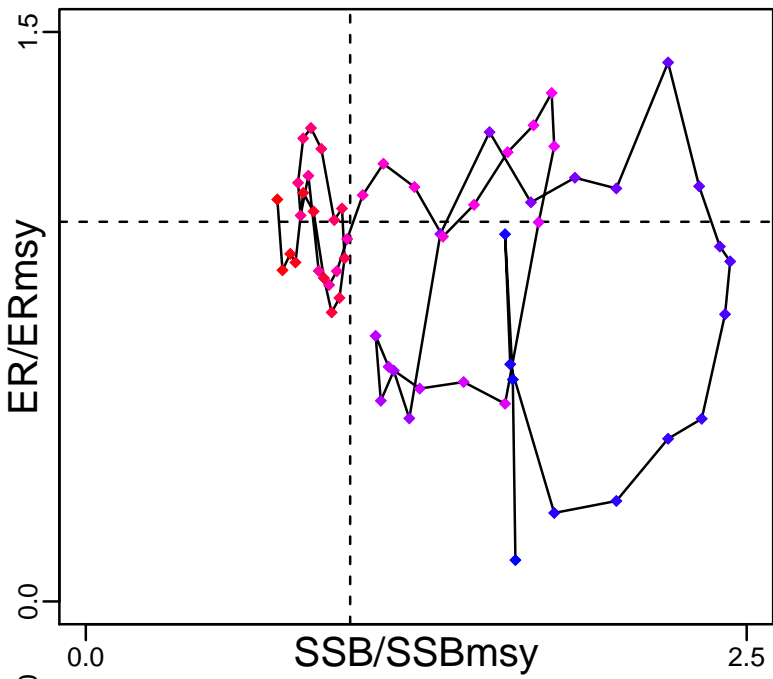
Metadata	
Scientific Name	Anoplopoma fimbria
Current Assess ID	AFSC-SABLEFEBSAIGA-1958-2018-SISIMP2021
Area	Eastern Bering Sea / Aleutian Islands / Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	96,345
SSBmsy	SSBmsy-MT	2018	102,146
Fmsy	Fmsy-pr-1/yr	2010	0.106
ERmsy	ERmsy-ratio	2010	0.197
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2010	275,270
MSY	MSY-MT	2010	18,950
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.099
ERlim	-	-	-

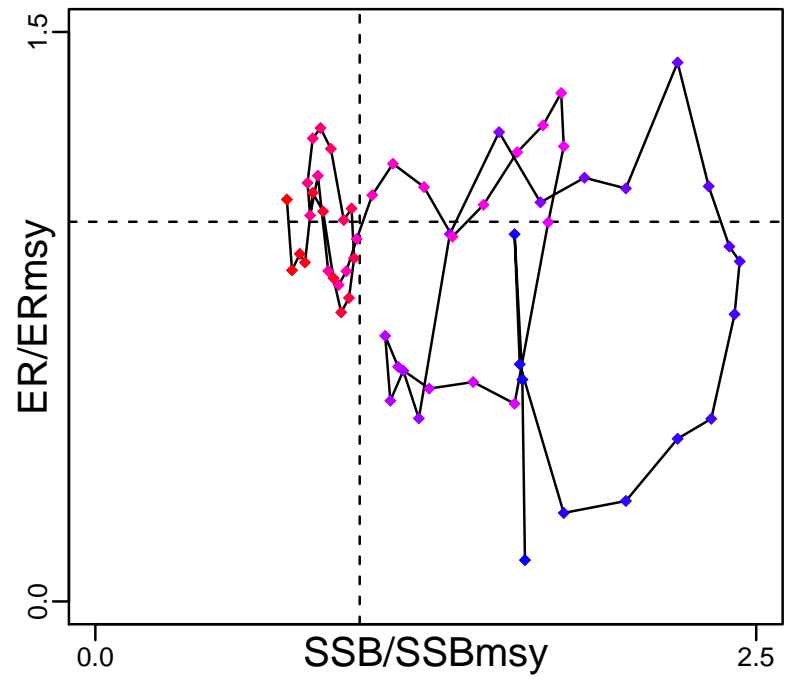
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	202,000	Both	2+
SSB	SSB-MT	2018	79,000	-	-
TN	-	-	-	-	-
R	R-E00	2018	12,491,200	-	2
F	F-1/yr	2018	0.081	-	-
ER	ER-calc-ratio	2018	0.081	-	-
TC	TC-MT	2018	13,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.283		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.773		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.585		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2010	0.261		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska [SABLEFEBSAIGA]

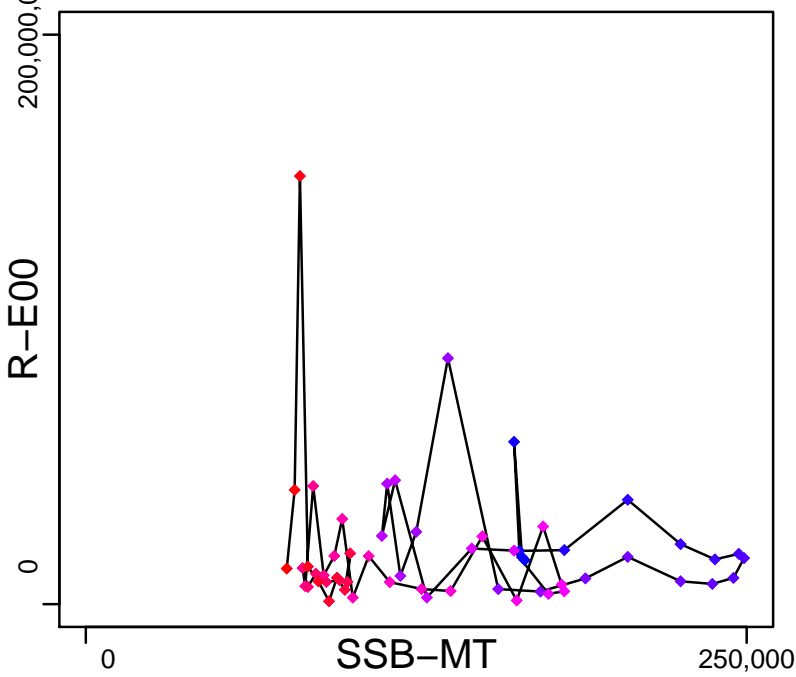
Kobe MSYpref (1958–2018–SISIMP2021)



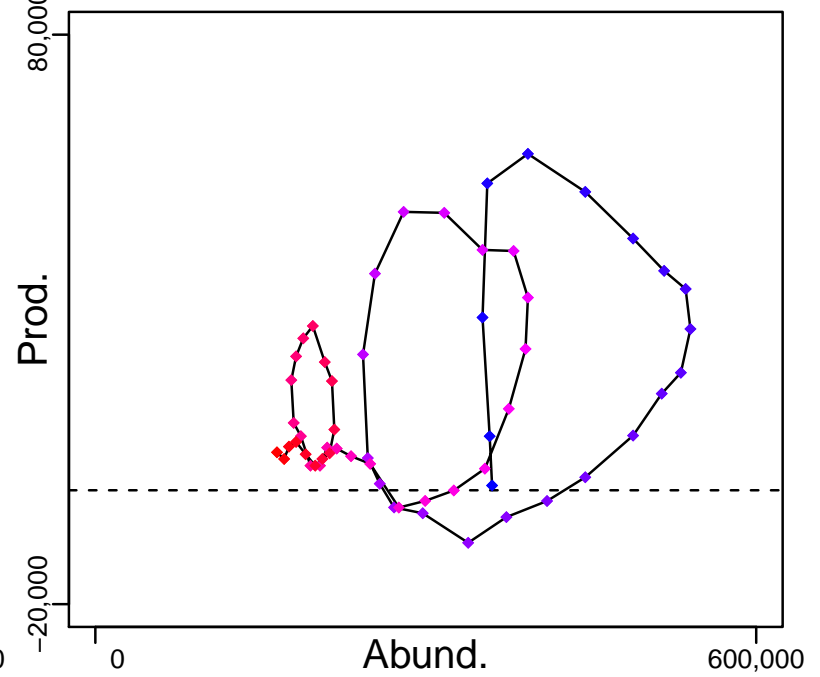
Kobe MGTpref (1958–2018–SISIMP2021)



Spawner Recruit (1958–2018–SISIMP2021)



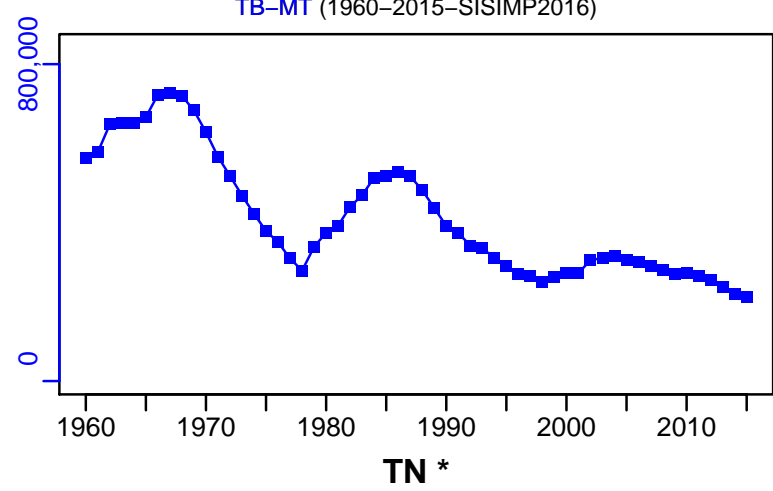
Production (1958–2018–SISIMP2021)



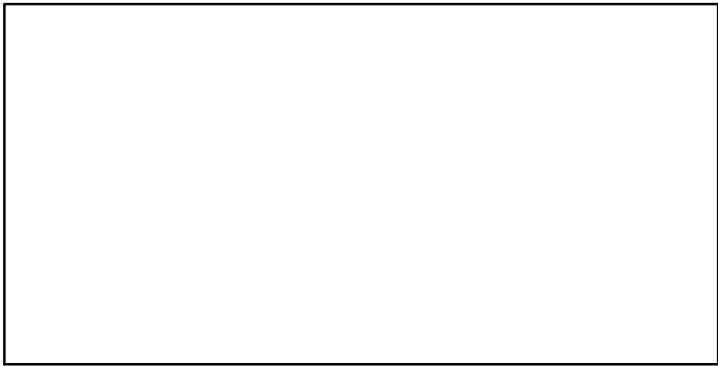
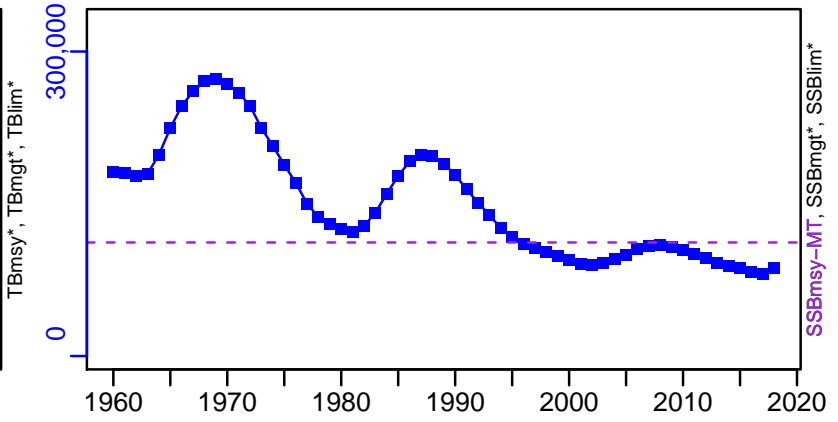
◆ Start Year ◆ End Year * No Data

Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska [SABLEFEBSAIGA]

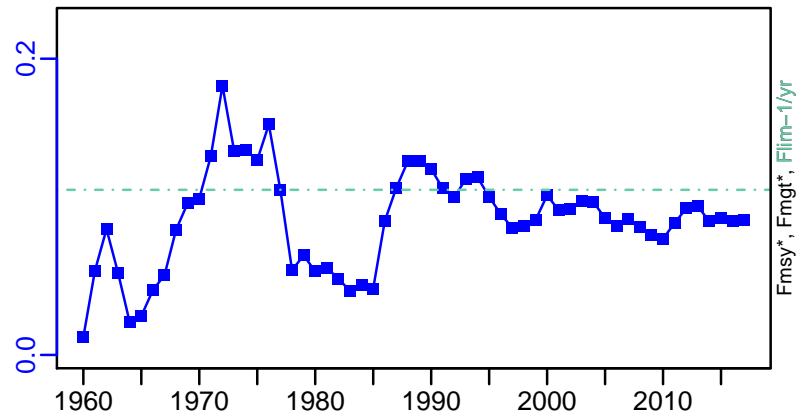
TB-MT (1960–2015–SISIMP2016)



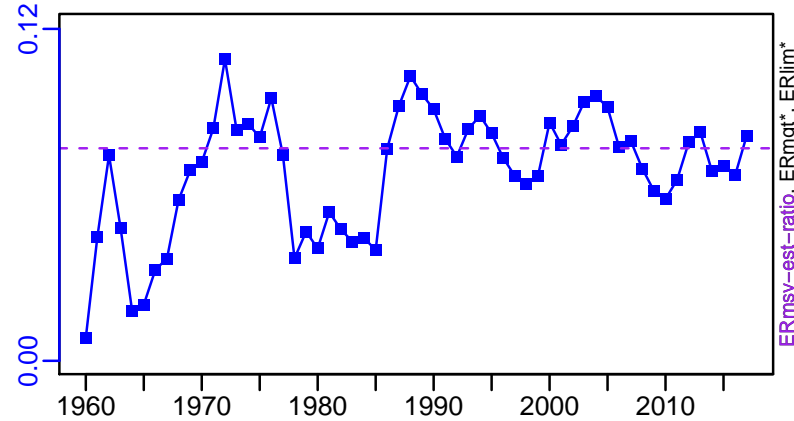
SSB-MT (1958–2018–SISIMP2021)



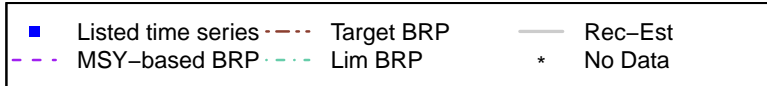
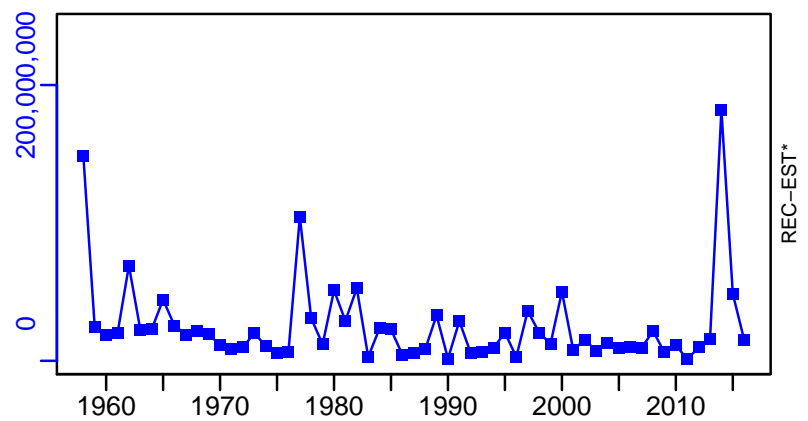
F-1/yr (1958–2018–SISIMP2021)



ER-calc-ratio (1958–2018–SISIMP2021)



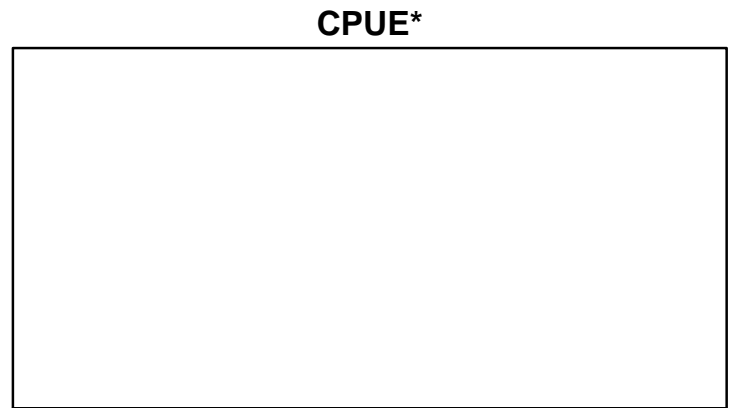
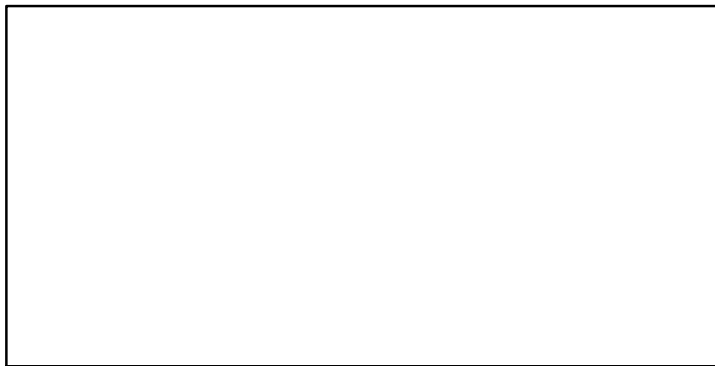
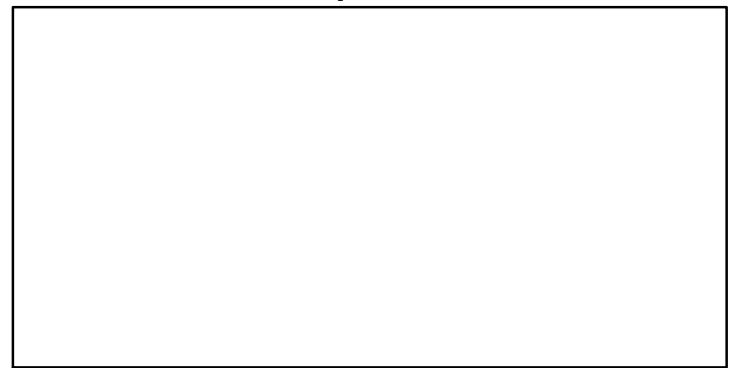
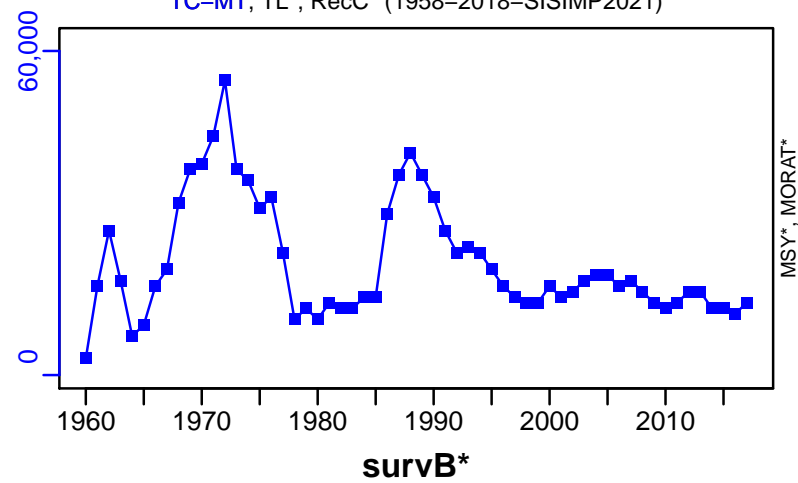
R-E00 (1958–2018–SISIMP2021)



Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska [SABLEFEBSAIGA]

TC-MT, TL*, RecC* (1958-2018-SISIMP2021)

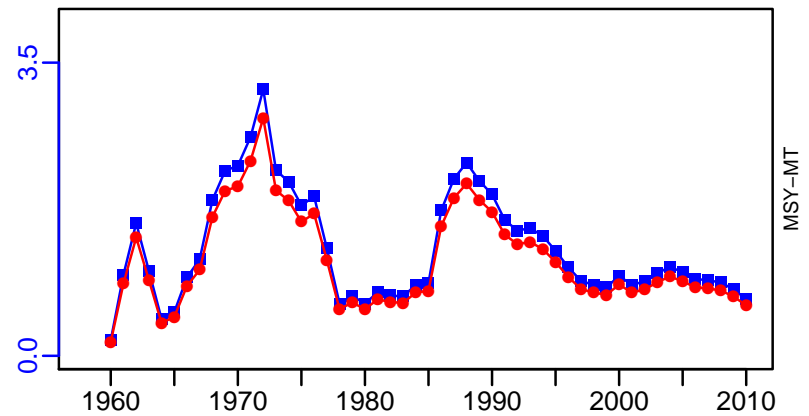
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1958-2010-STACHURA)



Snow crab Bering Sea [SNOWCRABBS]

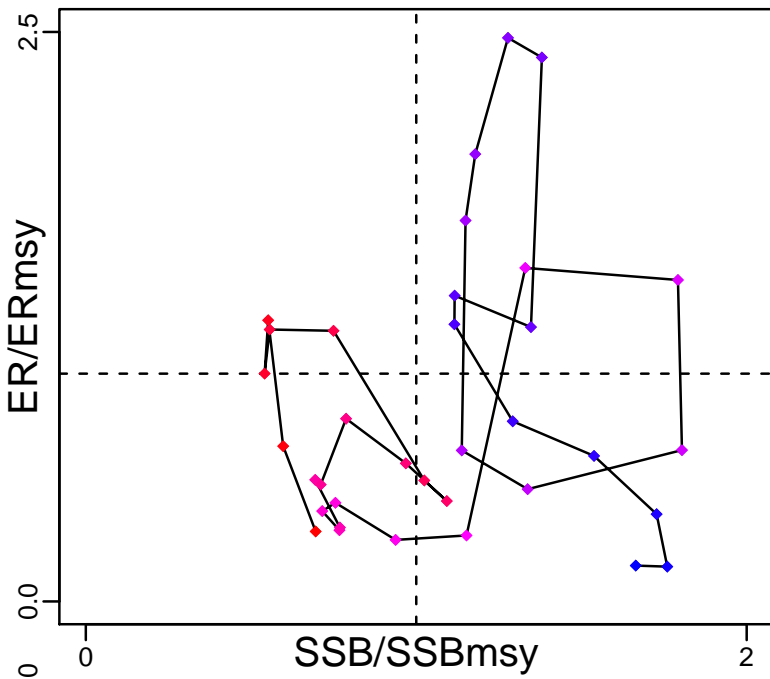
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	AFSC-SNOWCRABBS-1982-2017-SISIMP2021
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2016, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	146,357
SSBmsy	SSBmsy-MT	2016	139,400
Fmsy	Fmsy-pr-1/yr	2013	1.58
ERmsy	ERmsy-est-ratio	2016	0.454
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	45,238
M	M-1/yr	2013	0.18
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	69,700
Flim	Flim-1/yr	2017	1.04
ERlim	-	-	-

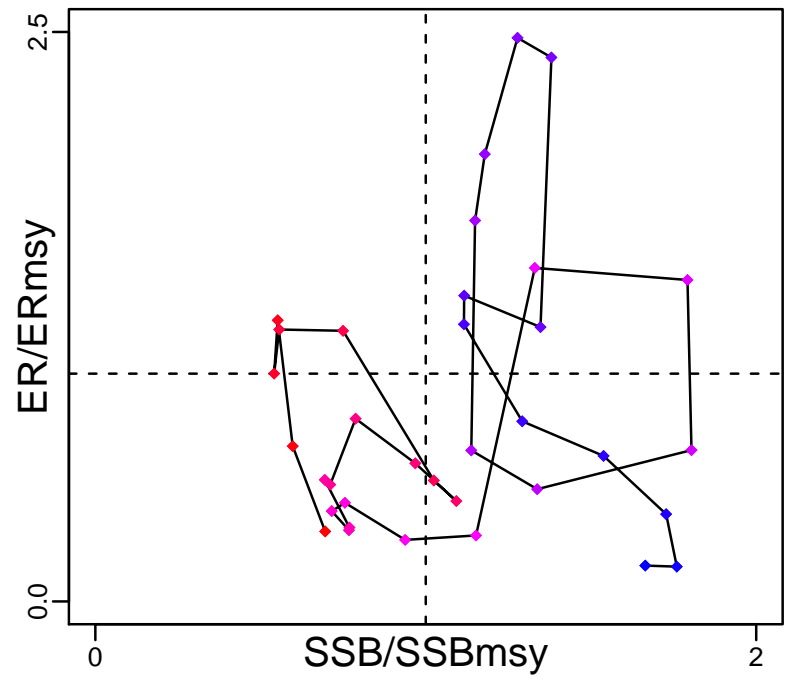
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	777,000	-	-
SSB	SSB-MT	2016	96,970	-	-
TN	-	-	-	-	-
R	R-E00	2017	6×10^8	-	-
F	F-1/yr	2017	0.44	-	-
ER	ER-calc-ratio	2016	0.139	-	-
TC	TC-MT	2017	8600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	5.309		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.696		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0.373		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.307		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab Bering Sea [SNOWCRABBS]

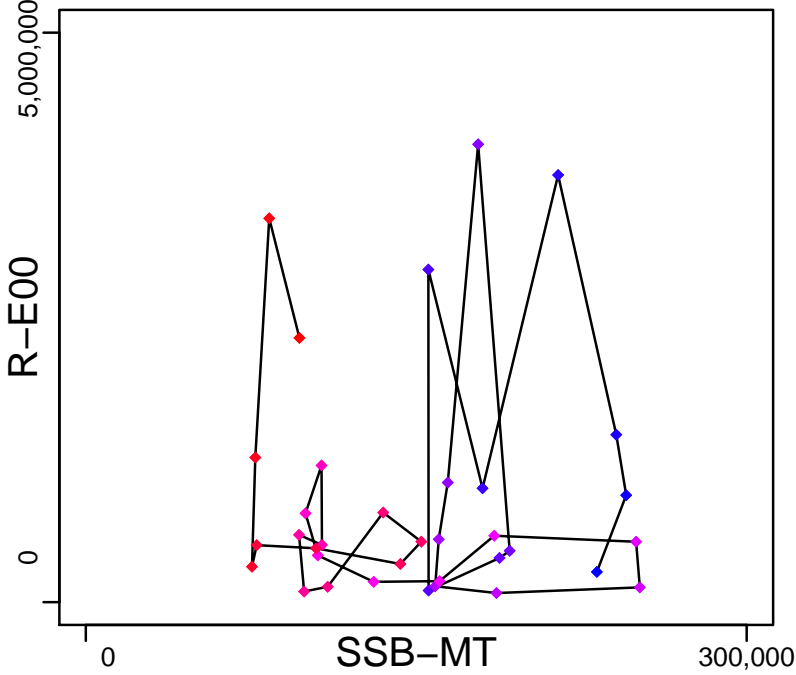
Kobe MSYpref (1978–2016–SISIMP2021)



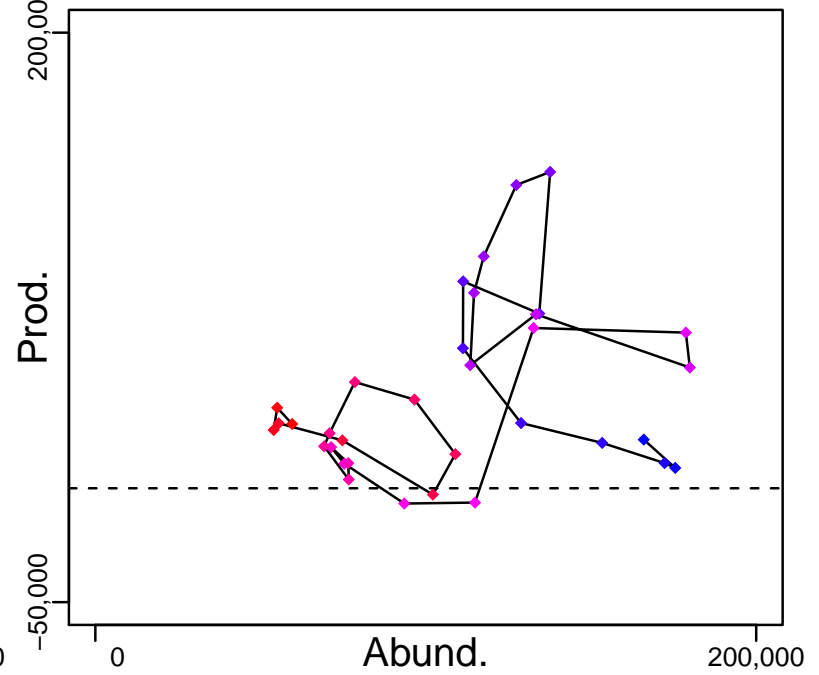
Kobe MGTpref (1978–2016–SISIMP2021)



Spawner Recruit (1978–2016–SISIMP2021)



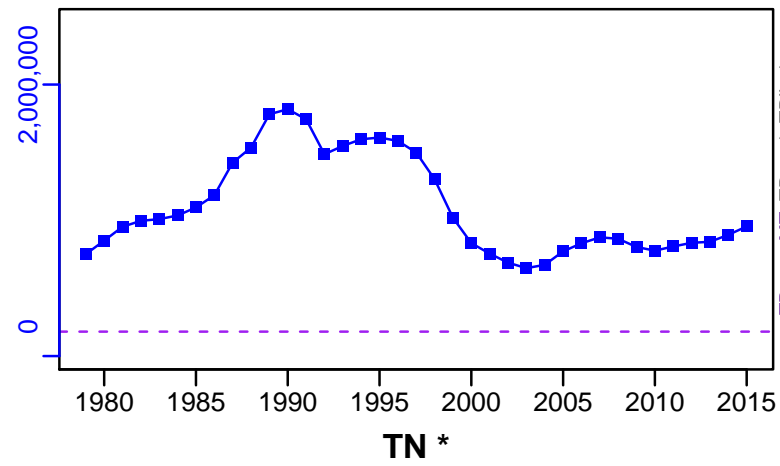
Production (1978–2016–SISIMP2021)



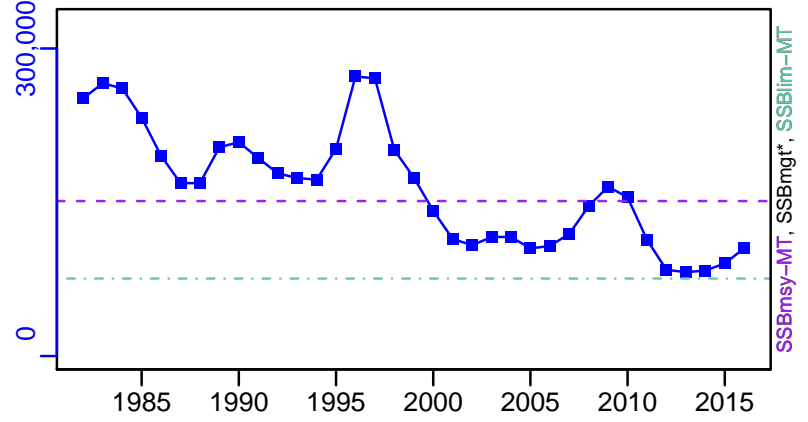
◆ Start Year ◆ End Year * No Data

Snow crab Bering Sea [SNOWCRABBS]

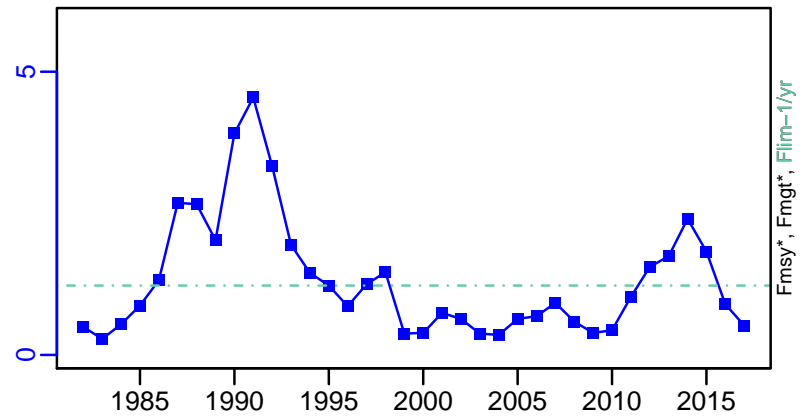
TB-MT (1979–2015–SISIMP2016)



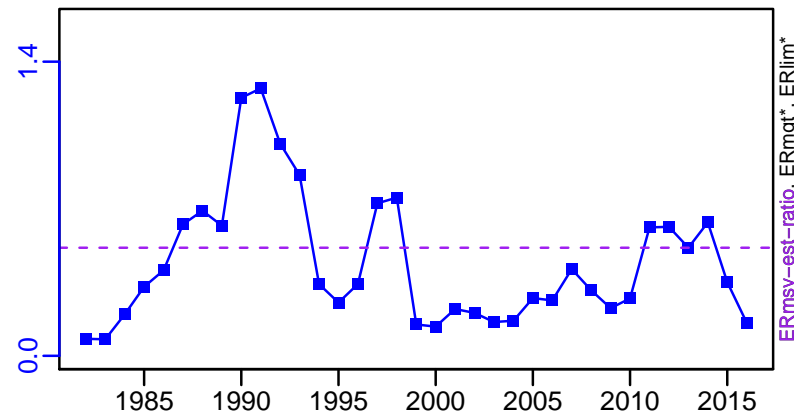
SSB-MT (1978–2016–SISIMP2021)



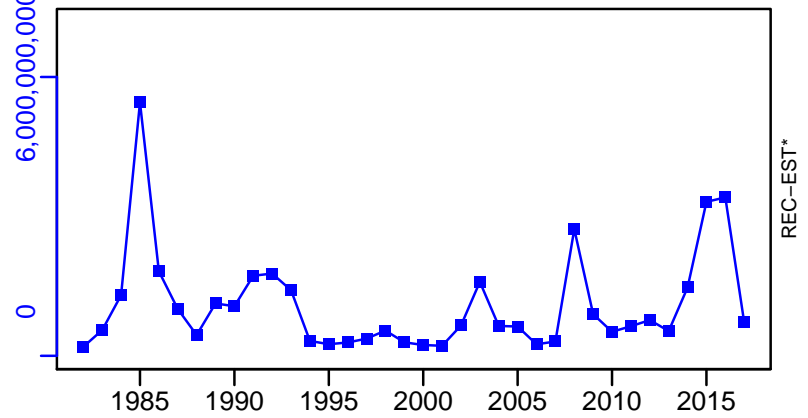
F-1/yr (1982–2017–SISIMP2021)



ER-calc-ratio (1978–2016–SISIMP2021)

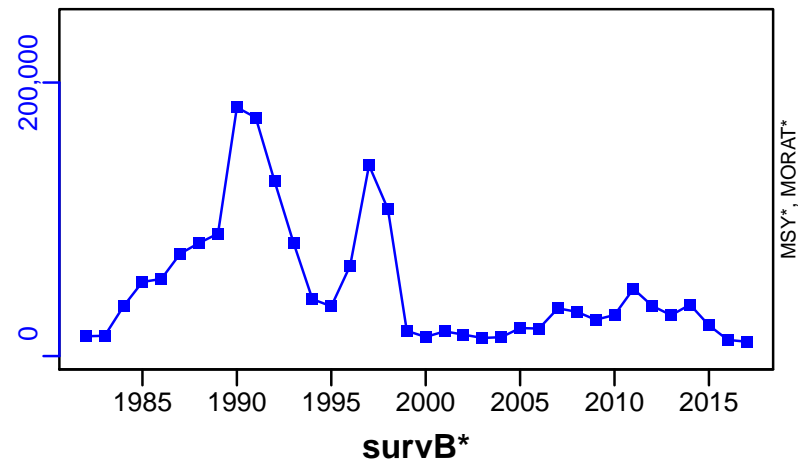


R-E00 (1982–2017–SISIMP2021)



Snow crab Bering Sea [SNOWCRABBS]

TC-MT, TL*, RecC* (1982-2017-SISIMP2021)



TAC*, Cpair*, Cadv*



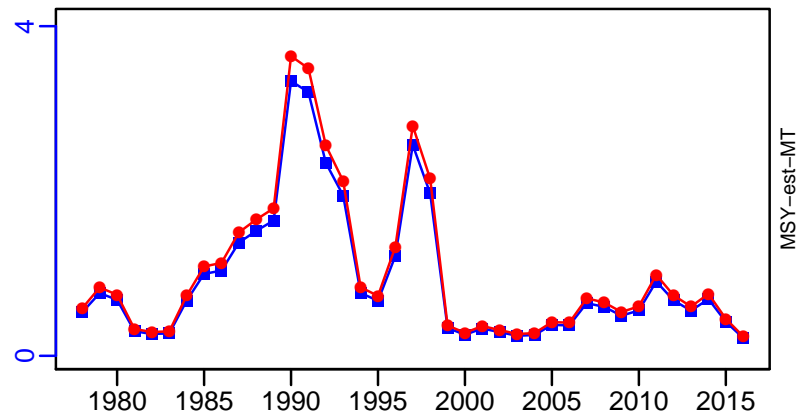
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2016-SISIMP2021)



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

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

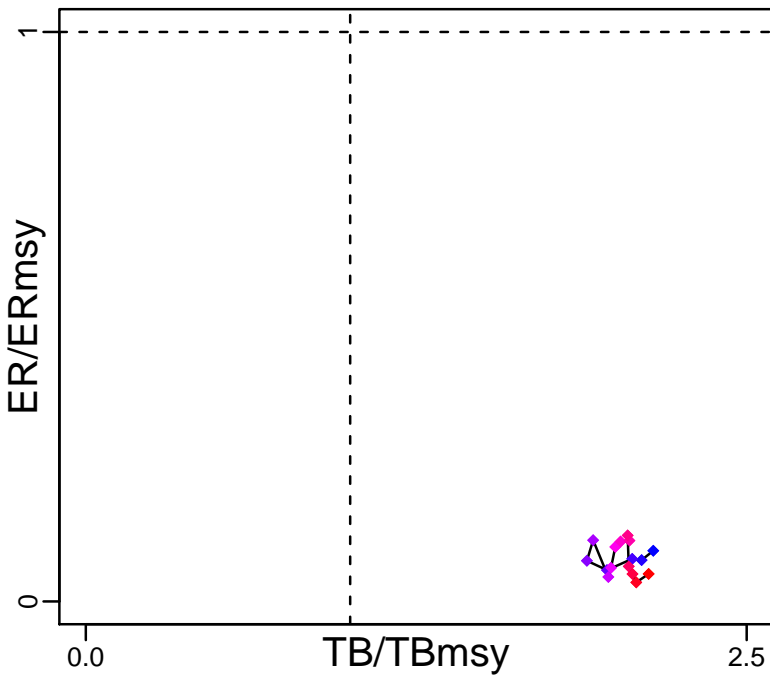
Metadata	
Scientific Name	Sebastes borealis
Current Assess ID	AFSC-SRAKEROCKBSAI-1977-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2018, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2018	11,043
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.031
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	1565
M	M-1/yr	2010	0.03
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.03
ERlim	ERlim-ratio	2016	0.031

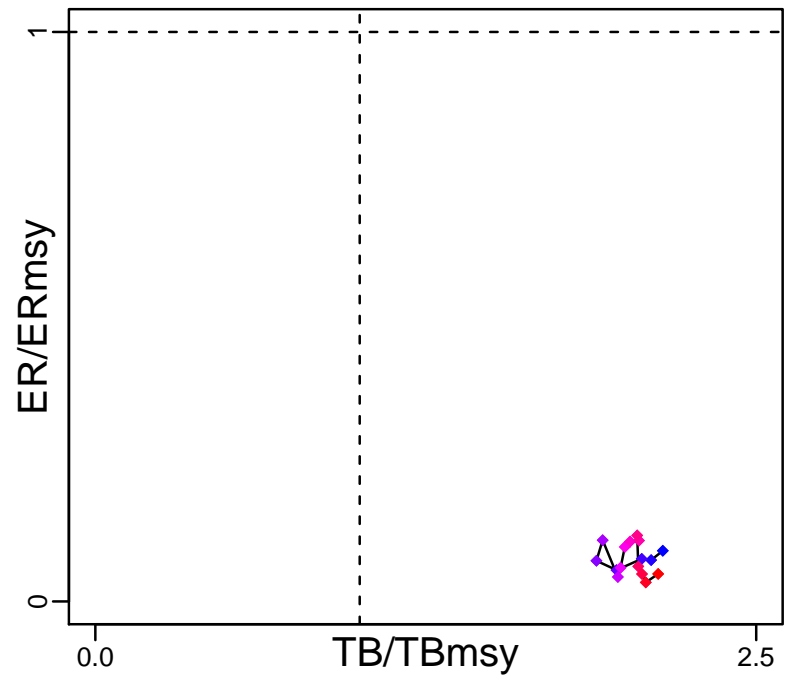
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	24,055	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.012	Both	-
ER	ER-calc-ratio	2018	0.007	-	-
TC	TC-MT	2018	161		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2018	2.178		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.223		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

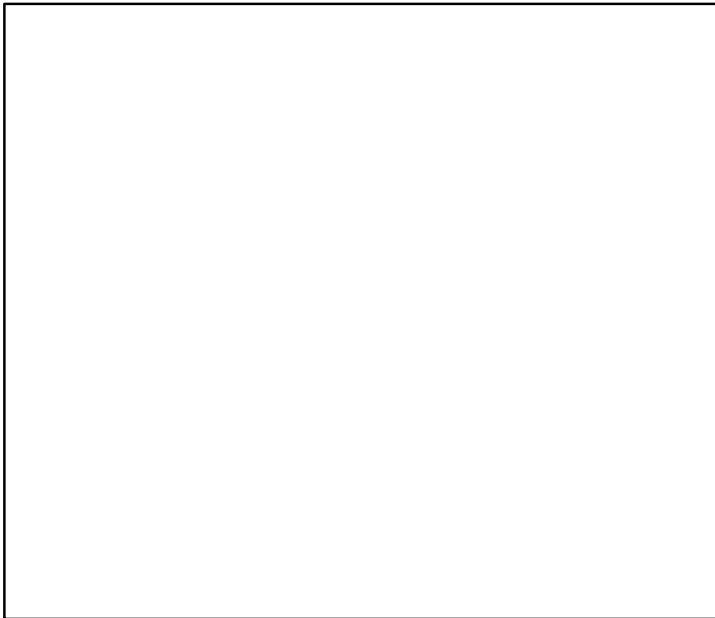
Kobe MSY_{pref} (1977–2018–SISIMP2021)



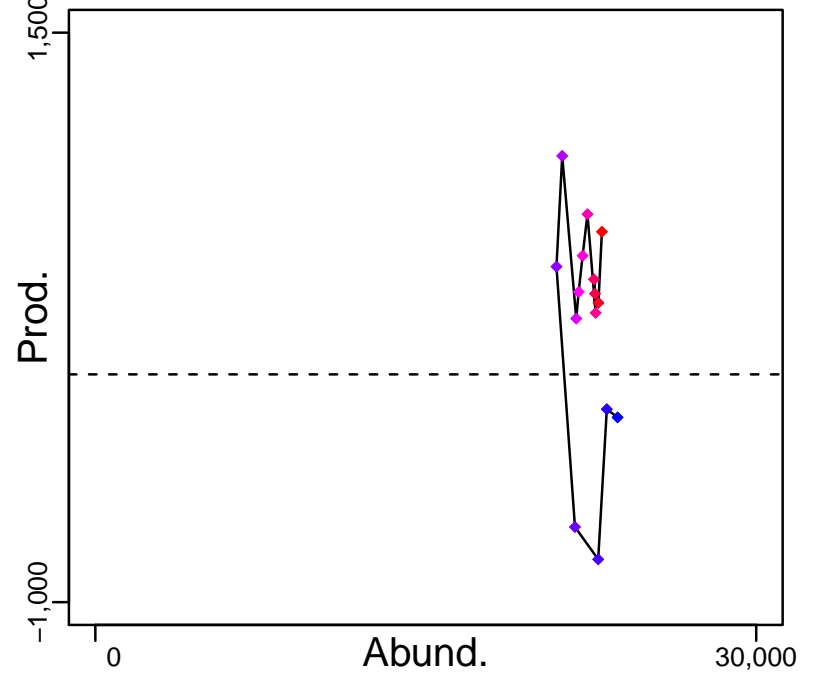
Kobe MGT_{pref} (1977–2018–SISIMP2021)



Spawner Recruit*



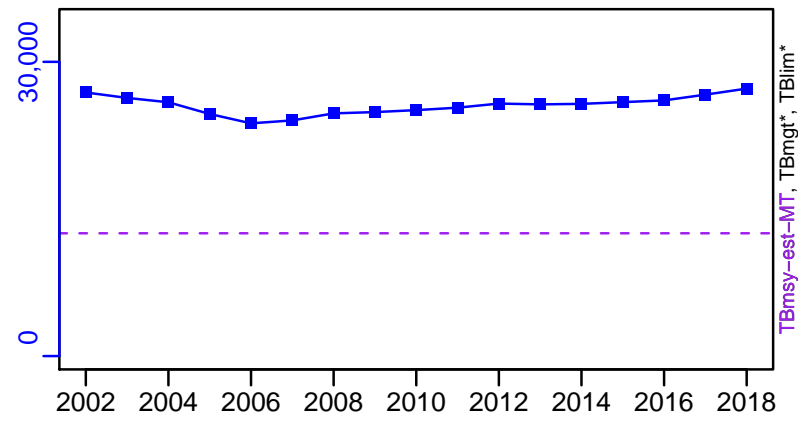
Production (1977–2018–SISIMP2021)



◆ Start Year ◆ End Year * No Data

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

TB-MT (1977–2018–SISIMP2021)



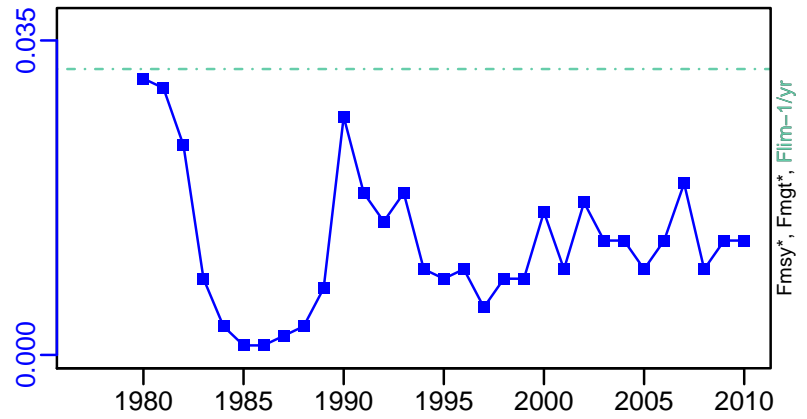
SSB*



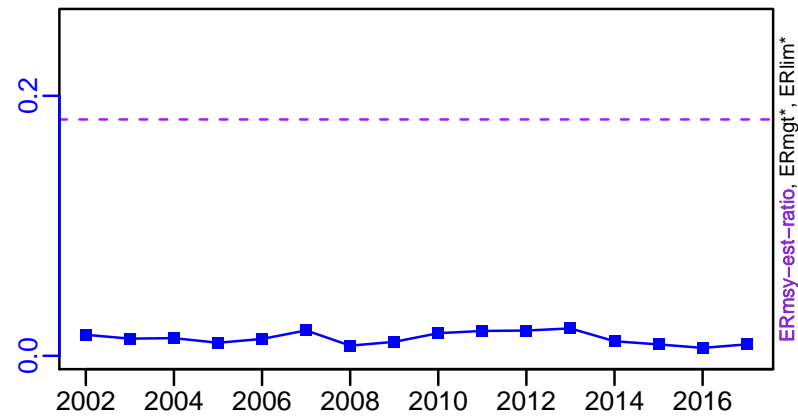
TN *



F-1/yr (1977–2010–STACHURA)



ER-calc-ratio (1977–2018–SISIMP2021)

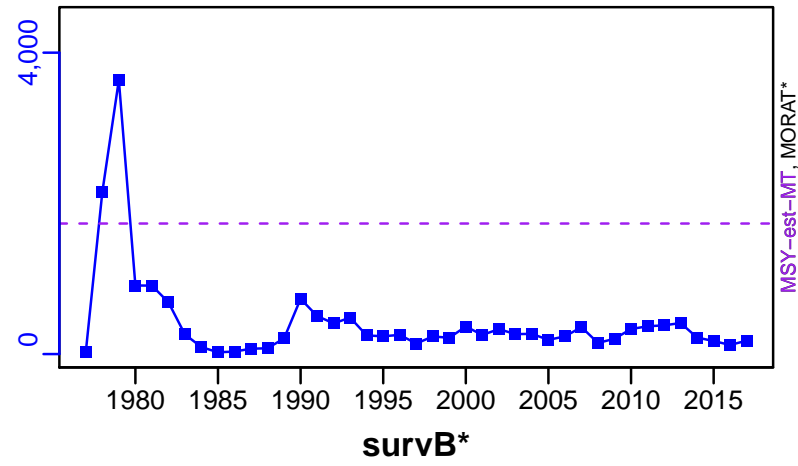


Recruits*



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

TC-MT, TL*, RecC* (1977-2018-SISIMP2021)



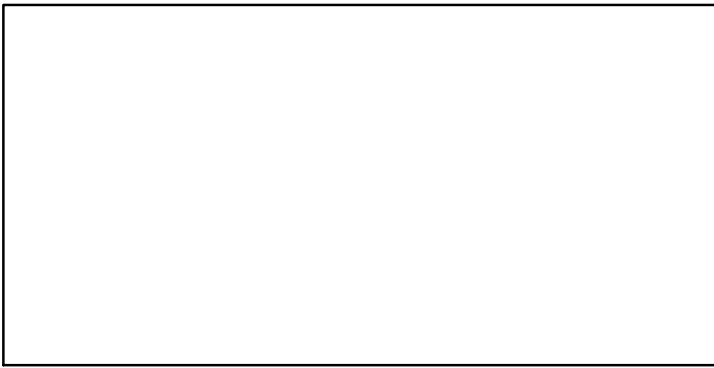
TAC*, Cpair*, Cadv*



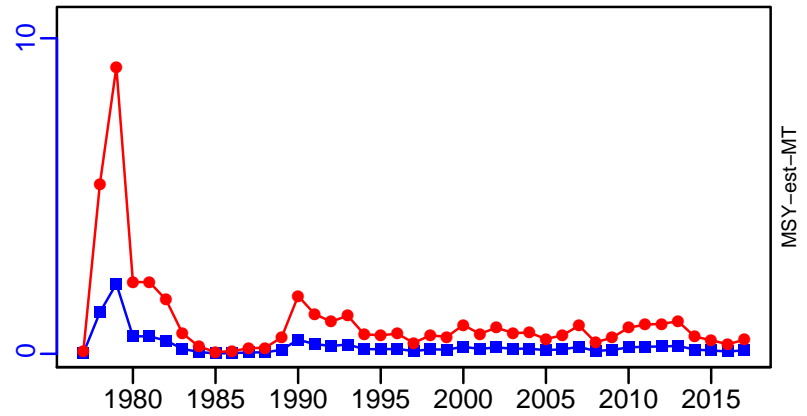
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2018-SISIMP2021)



- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

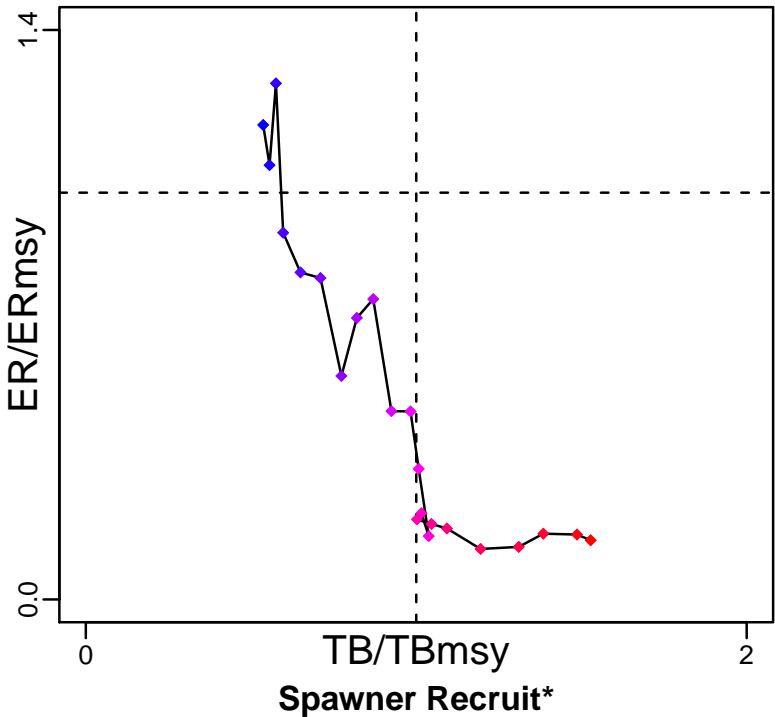
Metadata	
Scientific Name	Sebastes borealis
Current Assess ID	AFSC-SRAKEROCKGA-1984-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	36,329
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.031
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	3083
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2016	0.031

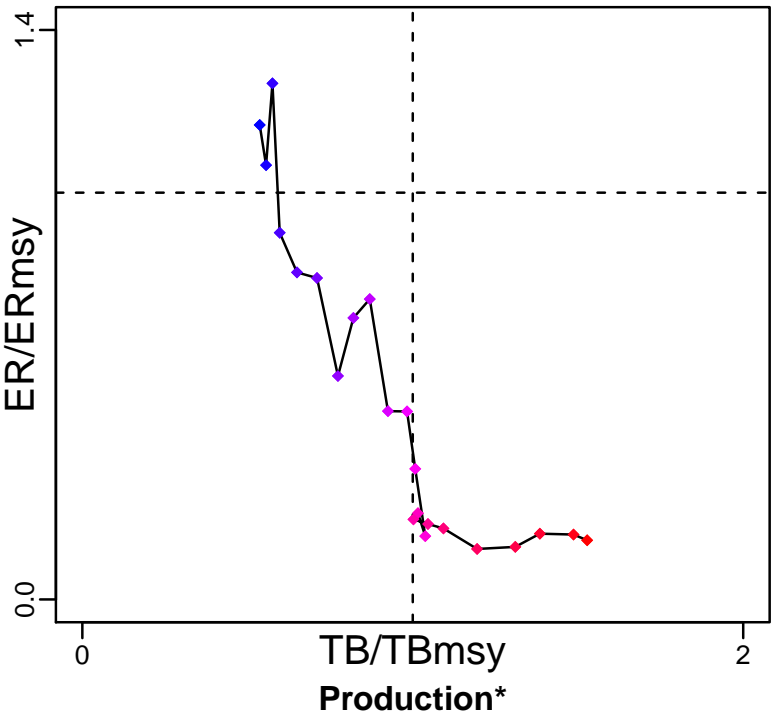
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	31,534	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2017	0.009	-	-
TC	TC-MT	2017	776		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.575		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.323		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

Kobe MSYpref (1993–2014–SISIMP2016)



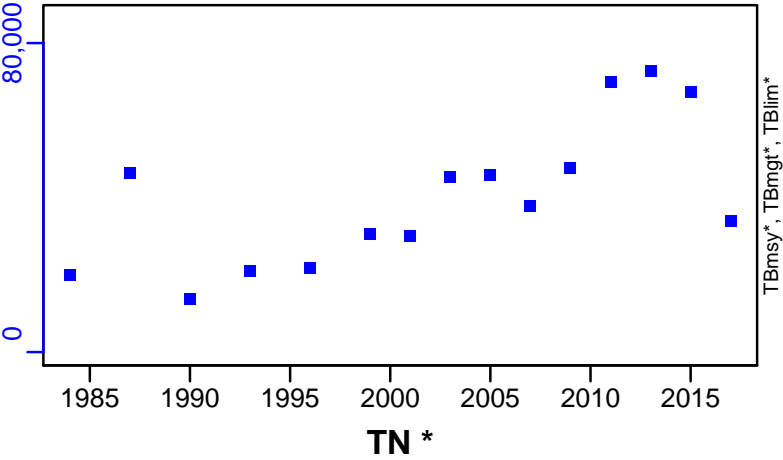
Kobe MGTpref (1993–2014–SISIMP2016)



◆ Start Year ◆ End Year * No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

TB-MT (1984-2017-SISIMP2021)



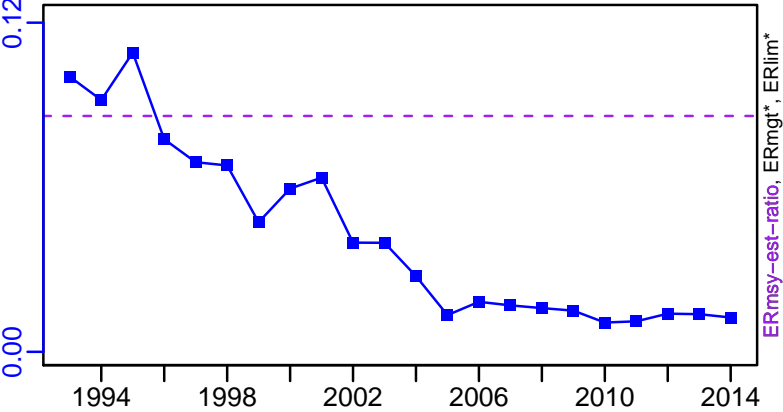
SSB*



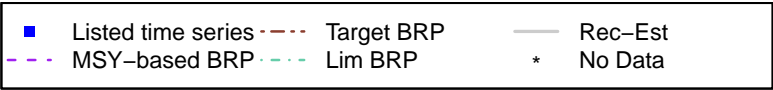
F*



ER-calc-ratio (1993-2014-SISIMP2016)



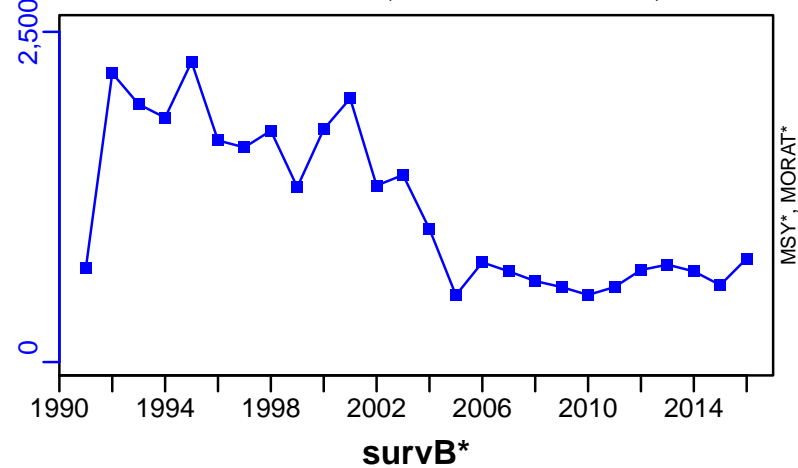
Recruits*



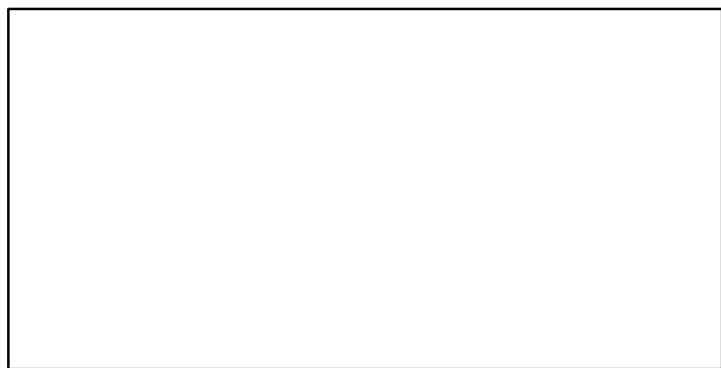
Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

TC-MT, TL*, RecC* (1984-2017-SISIMP2021)

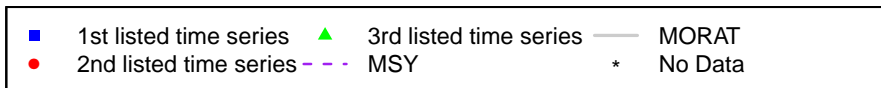
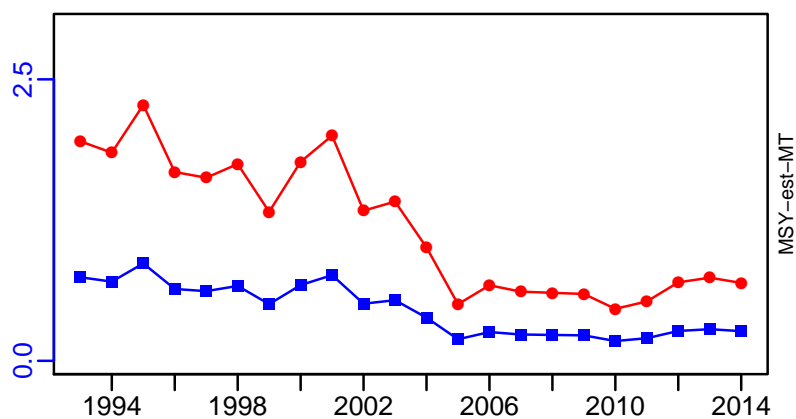
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1993-2014-SISIMP2016)



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

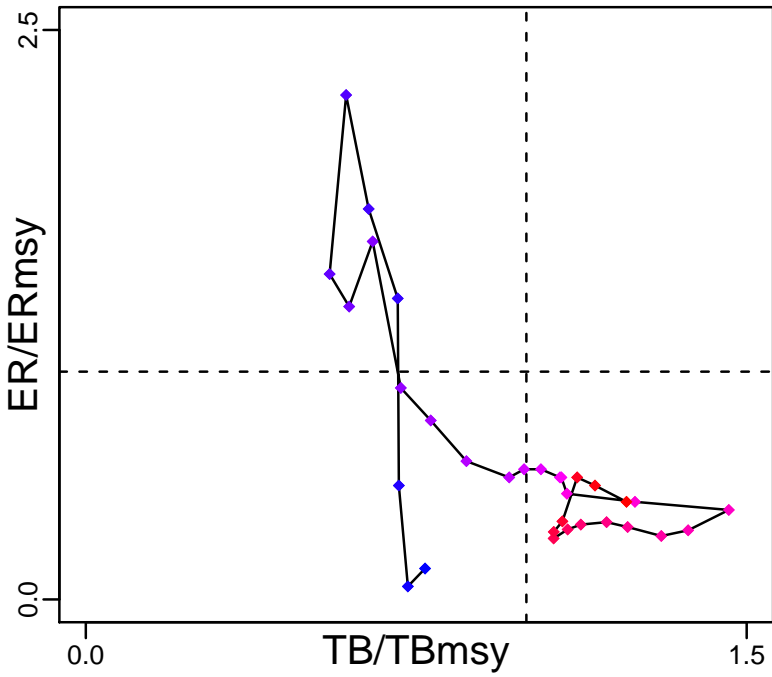
Metadata	
Scientific Name	Sebastolobus alascanus
Current Assess ID	AFSC-SSTHORNHGA-1980-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	71,015
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.028
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1988
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2016	0.028

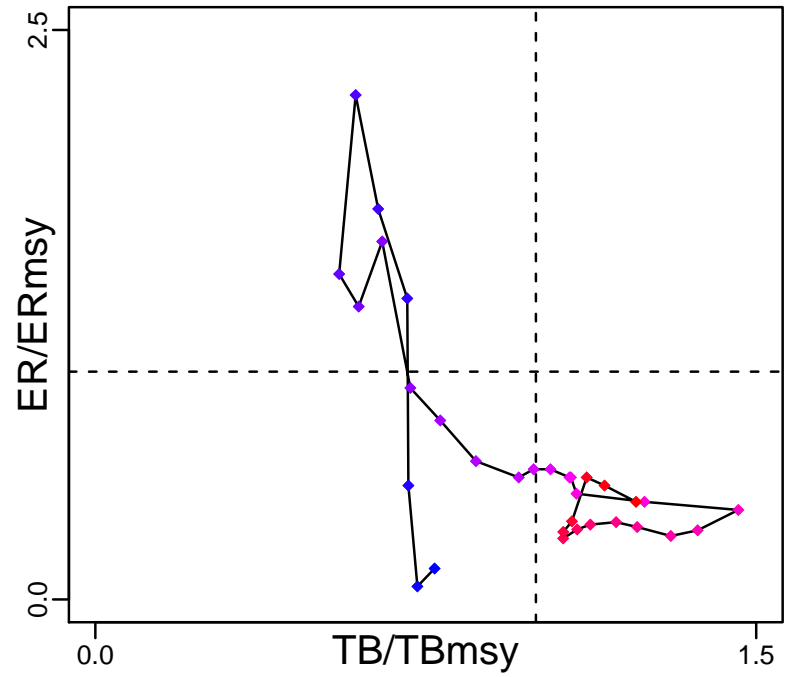
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	87,150	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.012	-	-
TC	TC-MT	2017	1021		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.227		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.429		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

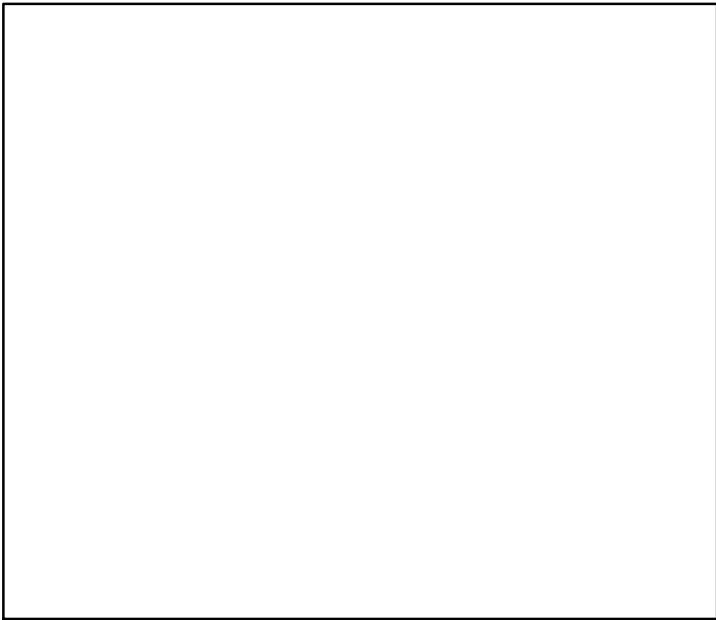
Kobe MSYpref (1980–2016–SISIMP2021)



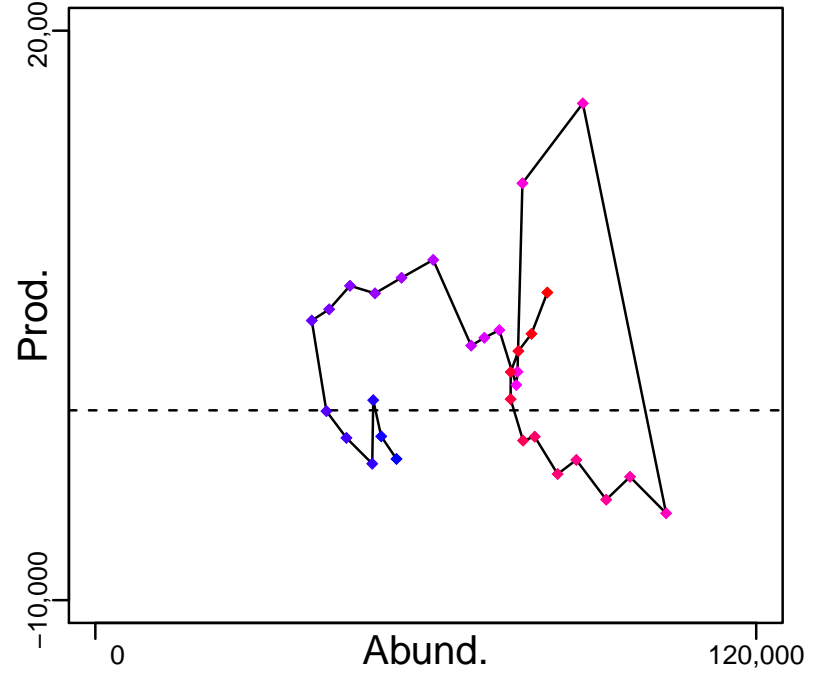
Kobe MGTpref (1980–2016–SISIMP2021)



Spawner Recruit*



Production (1980–2016–SISIMP2021)

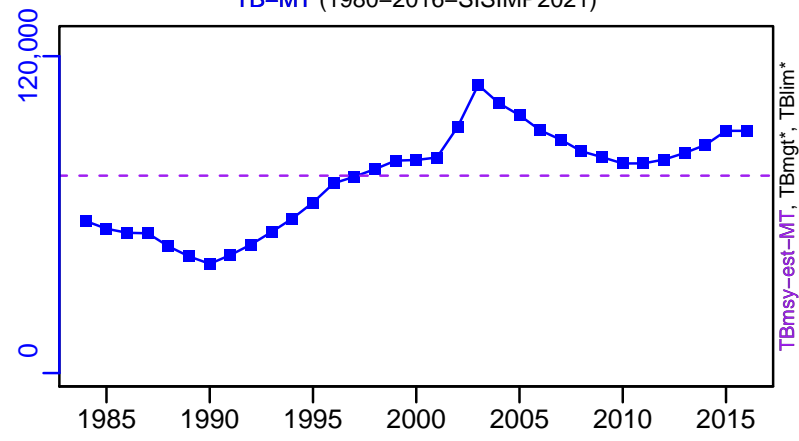


◆ Start Year ◆ End Year * No Data

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

TB-MT (1980-2016-SISIMP2021)

SSB*



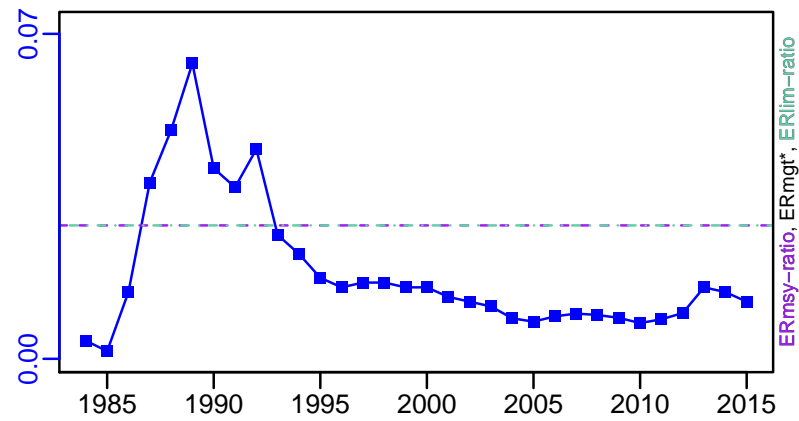
TN *

F*



ER-ratio (1980-2016-SISIMP2021)

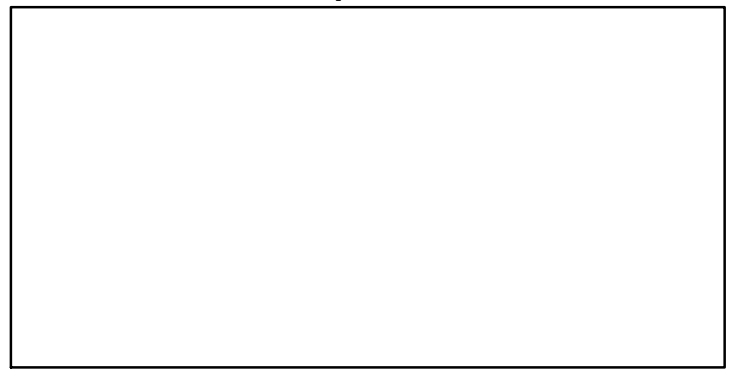
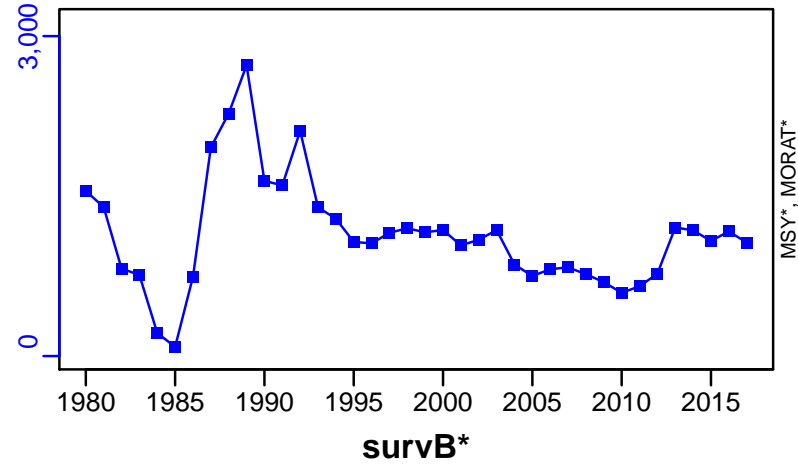
Recruits*



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

TC-MT, TL*, RecC* (1980-2017-SISIMP2021)

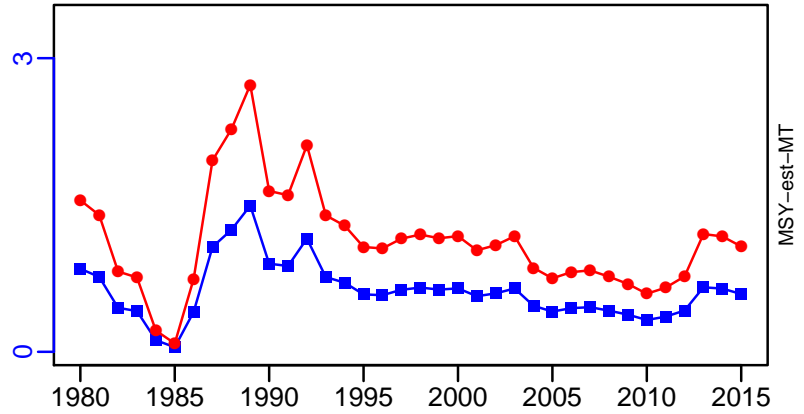
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1980-2016-SISIMP2021)



Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

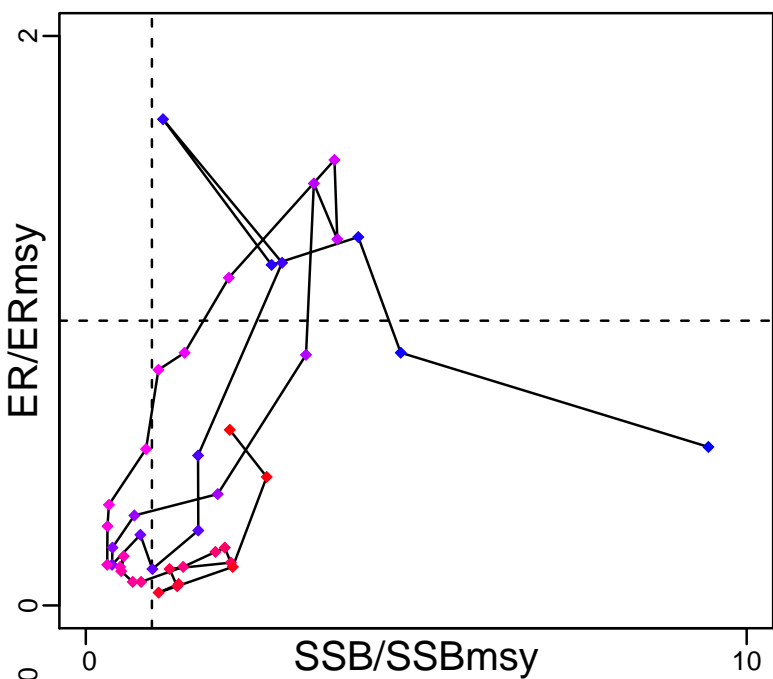
Metadata	
Scientific Name	Chionoecetes bairdi
Current Assess ID	AFSC-TANNERCRABBSAI-1948-2017-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2017, 2013, 2016, 2017, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	26,791
SSBmsy	SSBmsy-MT	2017	29,170
Fmsy	Fmsy-pr-1/yr	2013	0.73
ERmsy	ERmsy-conv-ratio	2017	0.532
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	33,540
Fmgt	Fmgt-1/yr	2013	0.73
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	12,250
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	14,580
Flim	-	-	-
ERlim	-	-	-

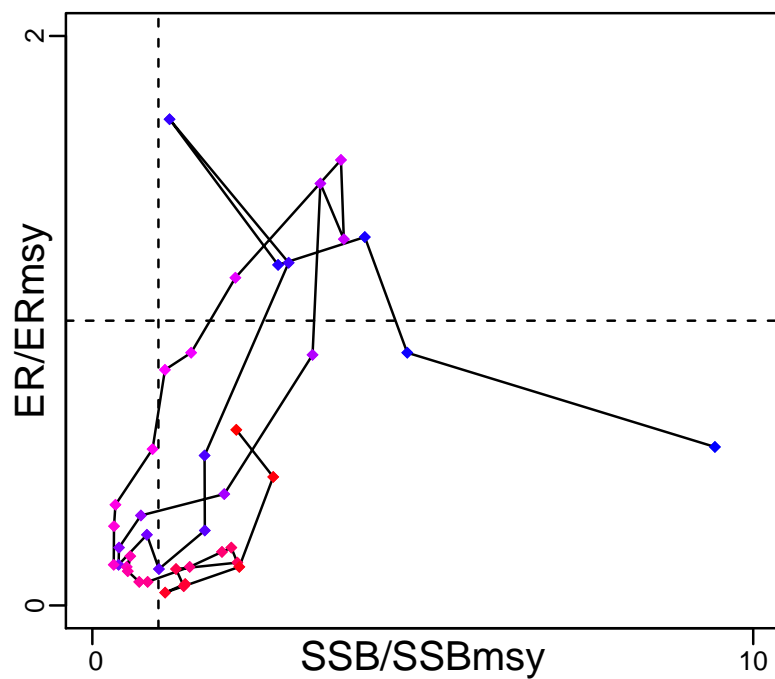
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	137,000	-	-
SSB	SSB-MT	2016	53,700	-	-
TN	-	-	-	-	-
R	R-E00	2017	662,470,000	-	-
F	F-1/yr	2015	0.144	-	-
ER	ER-ratio	2016	0.082	-	-
TC	TC-MT	2017	3620		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	5.114		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.004		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2016	0.617		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.771		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	0		
ER/ERmgt	-	-	-		

Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

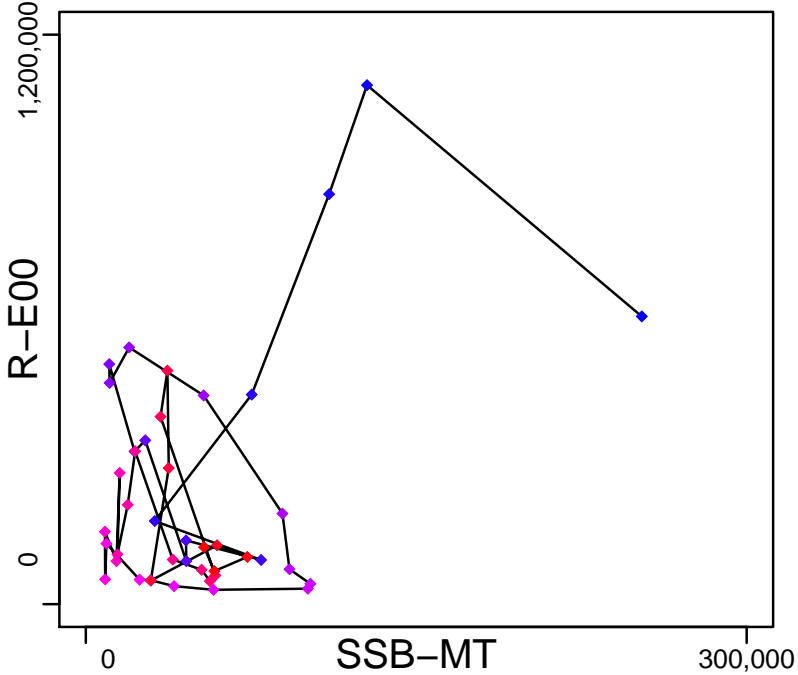
Kobe MSY_{pref} (1949–2016–SISIMP2021)



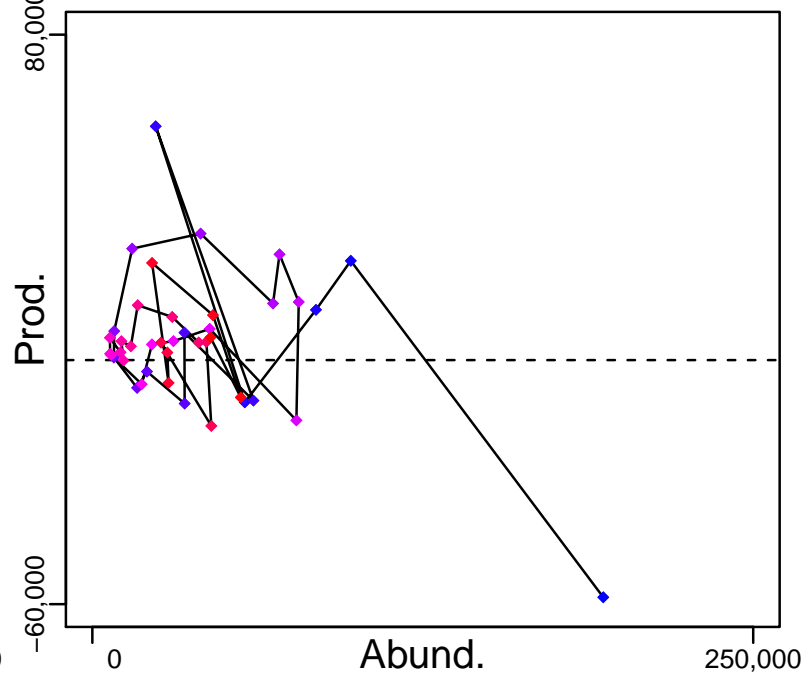
Kobe MGT_{pref} (1949–2016–SISIMP2021)



Spawner Recruit (1949–2016–SISIMP2021)



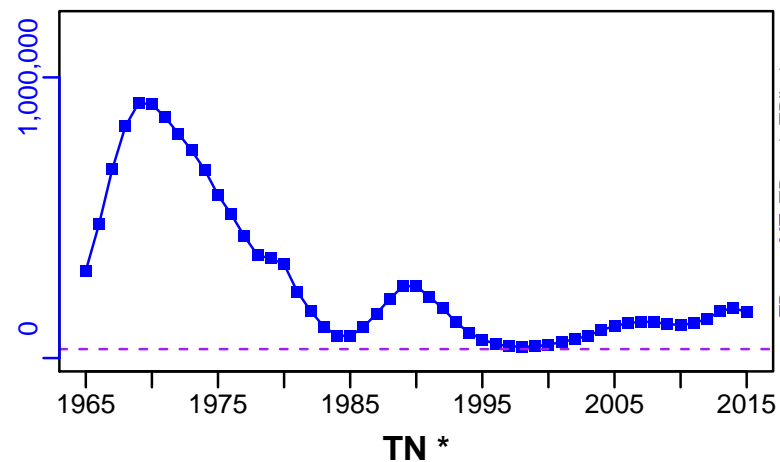
Production (1949–2016–SISIMP2021)



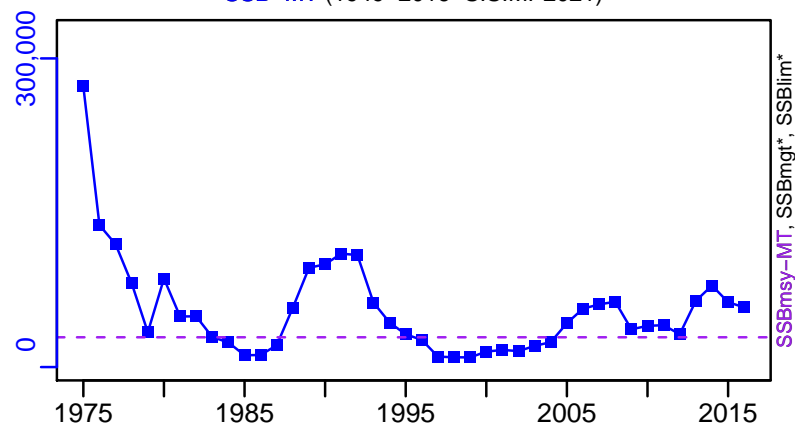
◆ Start Year ◆ End Year * No Data

Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

TB-MT (1965–2015–SISIMP2016)



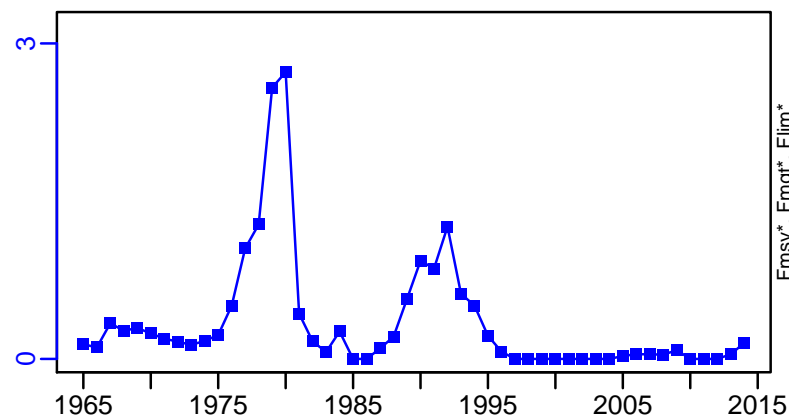
SSB-MT (1949–2016–SISIMP2021)



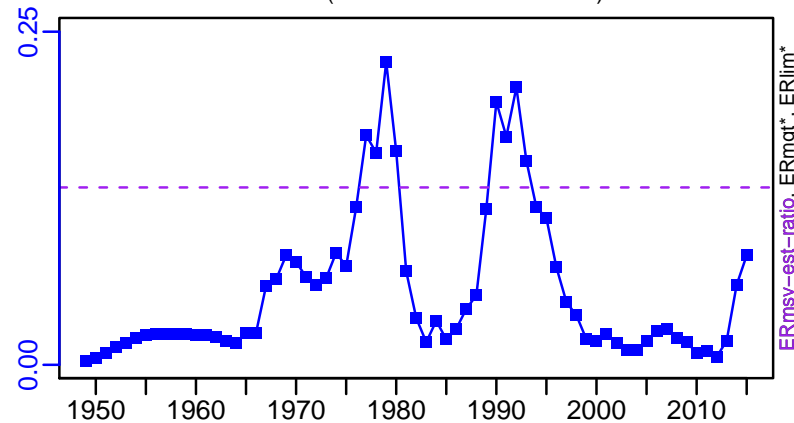
TN *



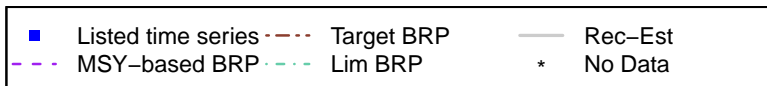
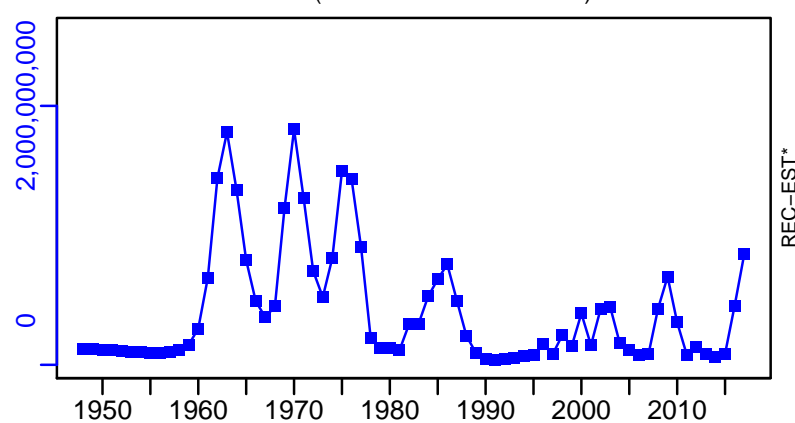
F-1/yr (1965–2015–SISIMP2016)



ER-ratio (1949–2016–SISIMP2021)



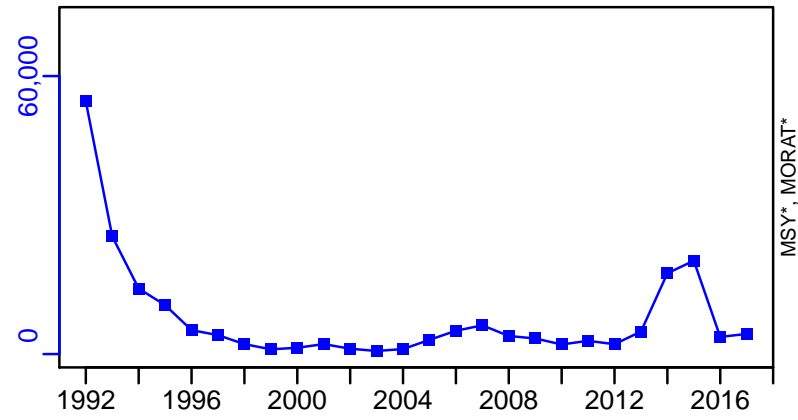
R-E00 (1948–2017–SISIMP2021)



Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

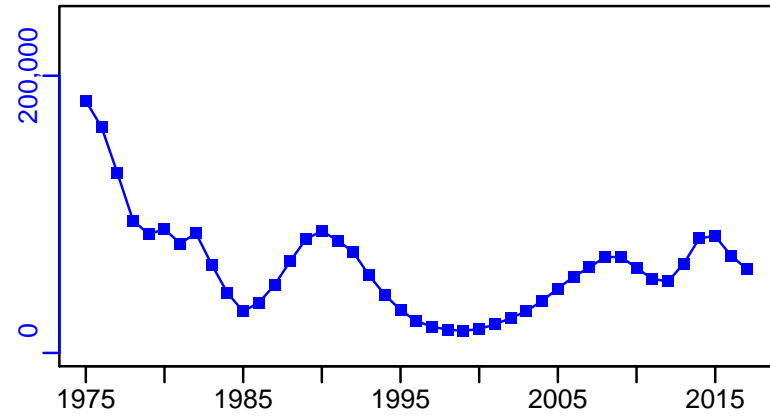
TC-MT, TL*, RecC* (1948–2017–SISIMP2021)

TAC*, Cpair*, Cadv*

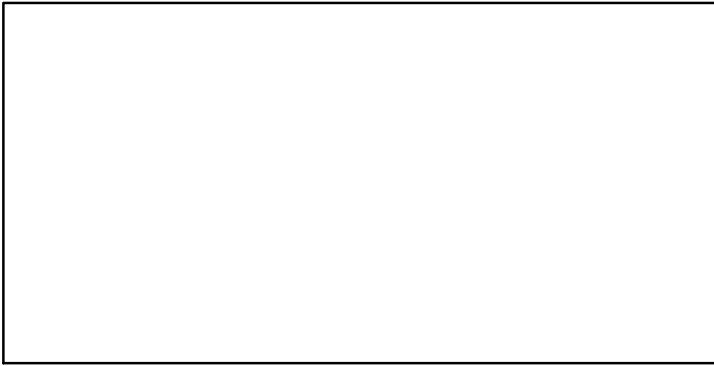


survB-MT (1949–2017–SISIMP2021)

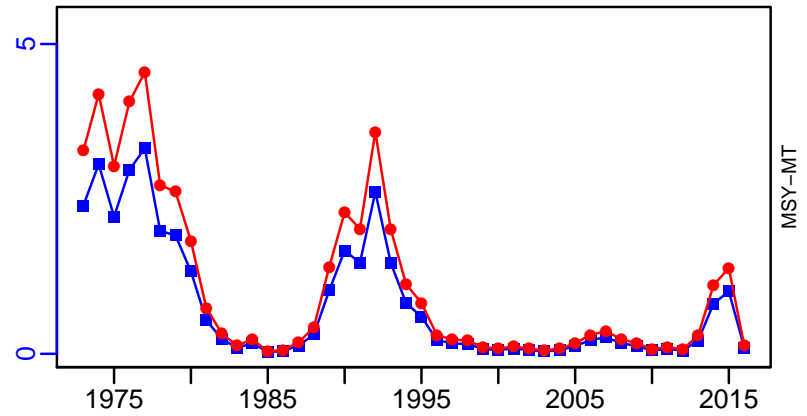
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1949–2017–SISIMP2021)



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

Walleye pollock Aleutian Islands [WPOLLAI]

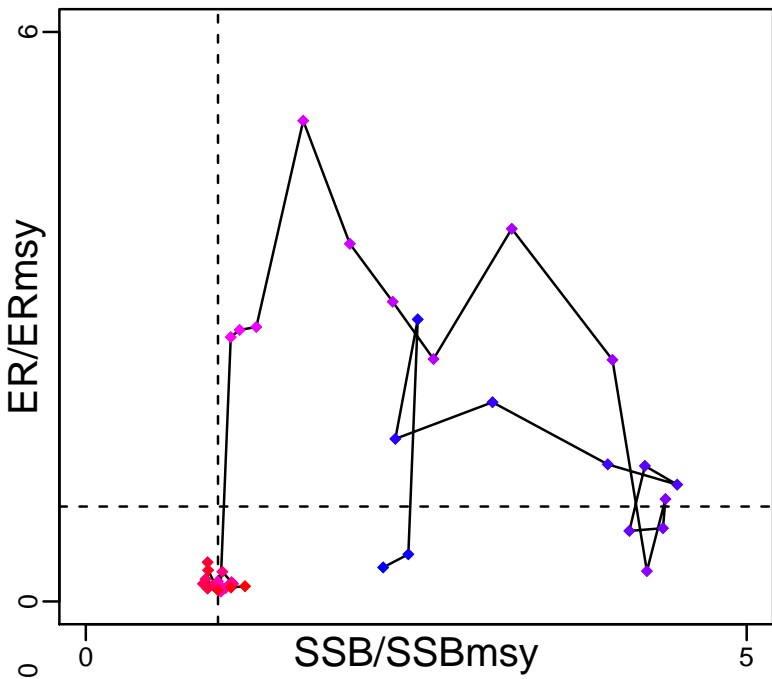
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLAI-1978-2018-SISIMP2021
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	71,148
Fmsy	Fmsy-pr-1/yr	2013	0.34
ERmsy	ERmsy-est-ratio	2018	0.033
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	7792
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.232
ERlim	-	-	-

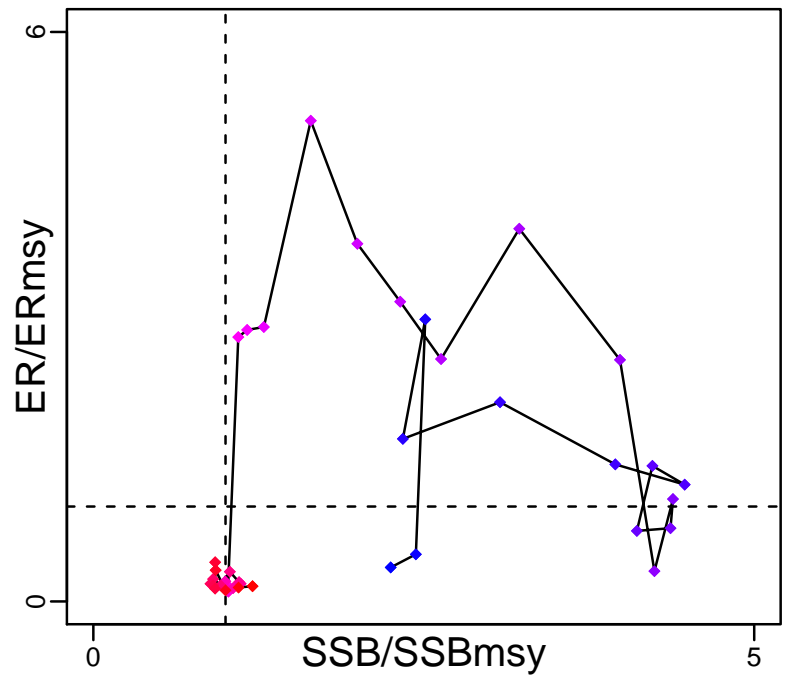
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	216,000	-	1+
SSB	SSB-MT	2018	89,844	-	-
TN	-	-	-	-	-
R	R-E00	2018	81,377,500	-	0
F	F-1/yr	2018	0.006	-	-
ER	ER-calc-ratio	2018	0.005	-	-
TC	TC-MT	2018	1507		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.263		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0.021		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.161		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.035		
ER/ERmgt	-	-	-		

Walleye pollock Aleutian Islands [WPOLLAI]

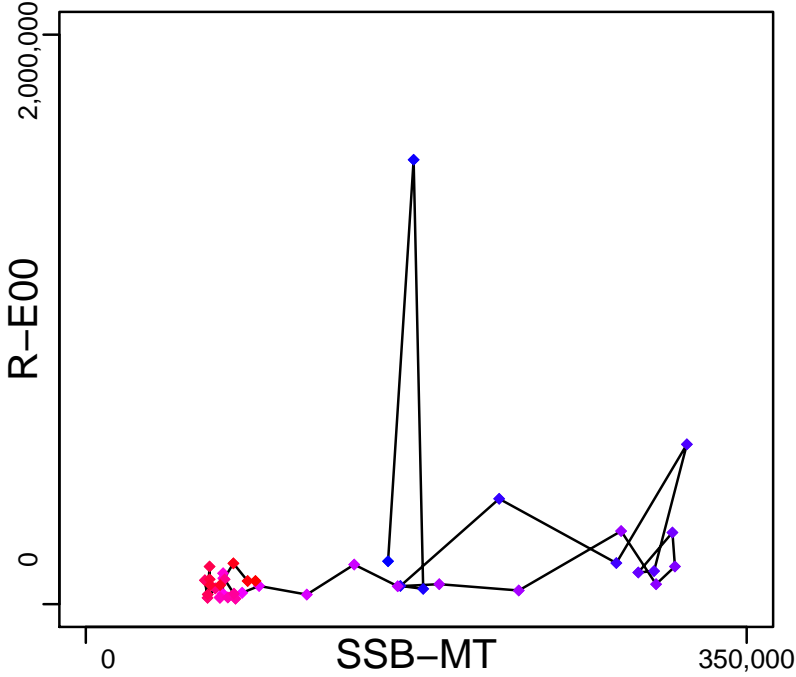
Kobe MSY_{pref} (1978–2018–SISIMP2021)



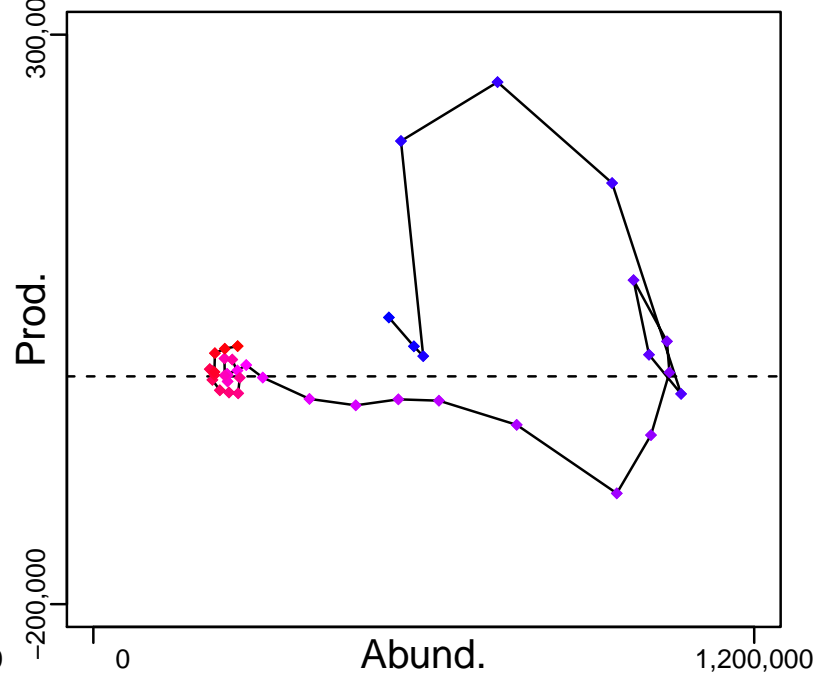
Kobe MGT_{pref} (1978–2018–SISIMP2021)



Spawner Recruit (1978–2018–SISIMP2021)

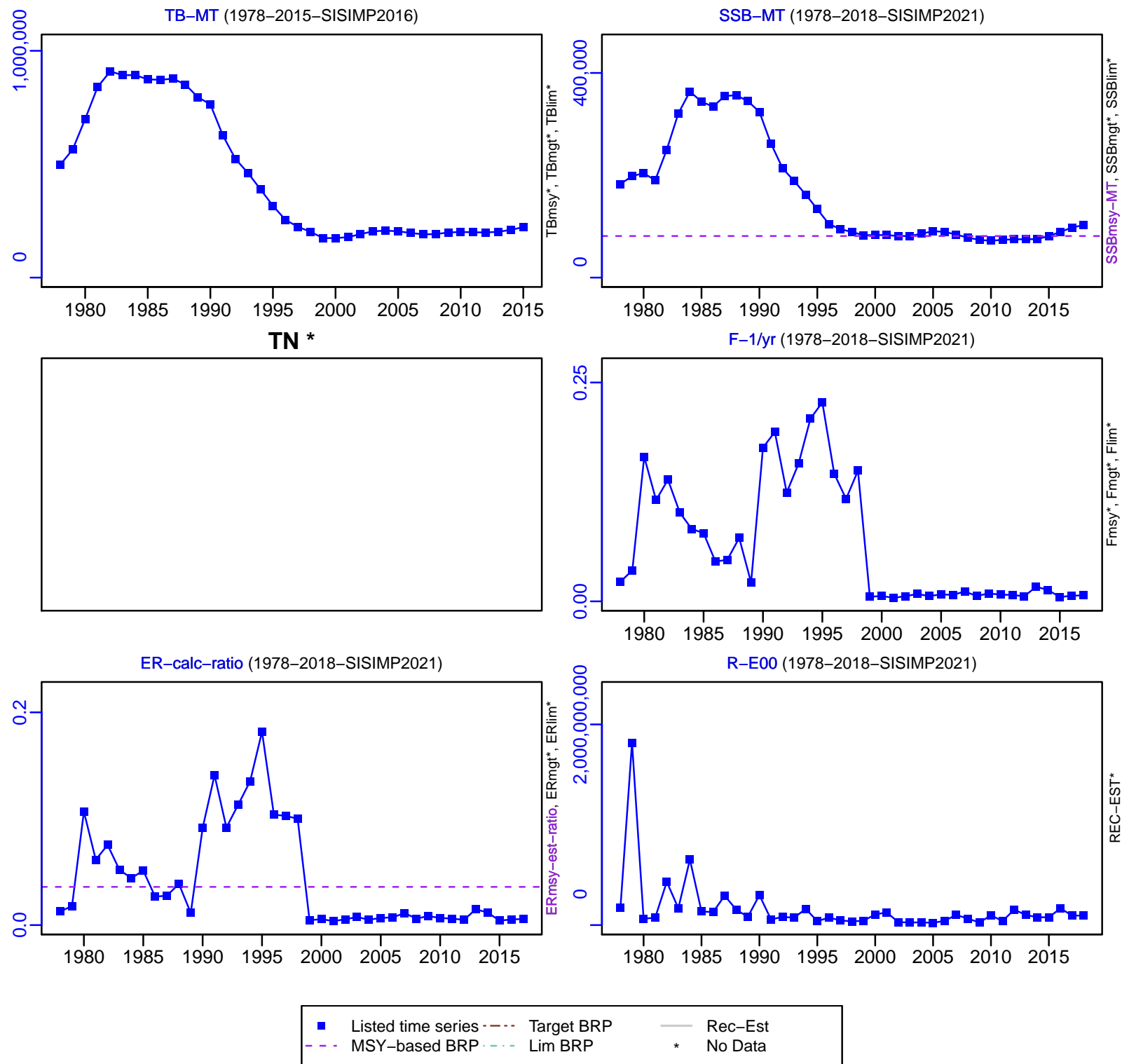


Production (1978–2018–SISIMP2021)



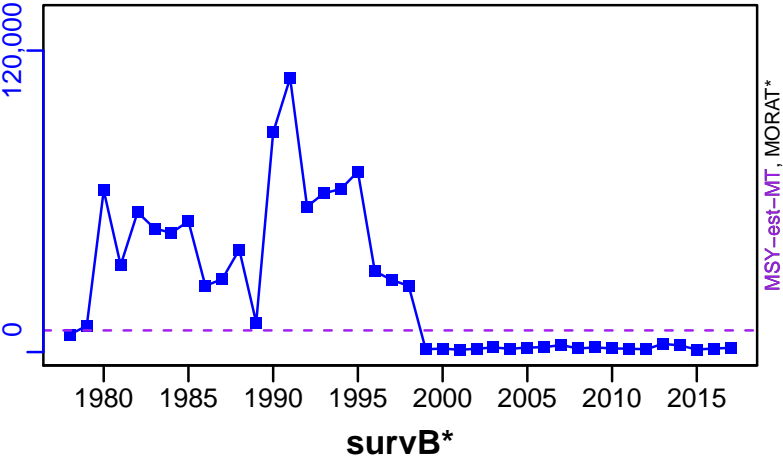
◆ Start Year ◆ End Year * No Data

Walleye pollock Aleutian Islands [WPOLLAI]



Walleye pollock Aleutian Islands [WPOLLAI]

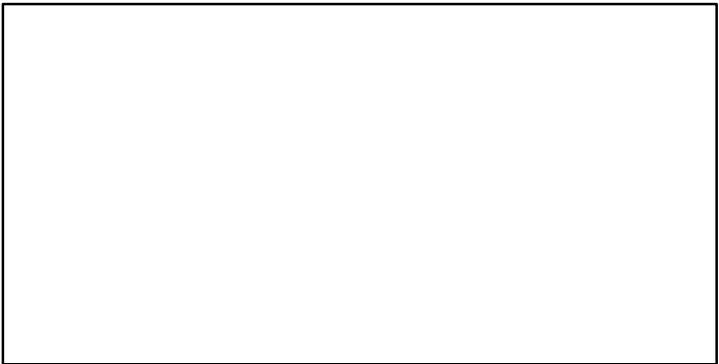
TC-MT, TL*, RecC* (1978-2018-SISIMP2021)



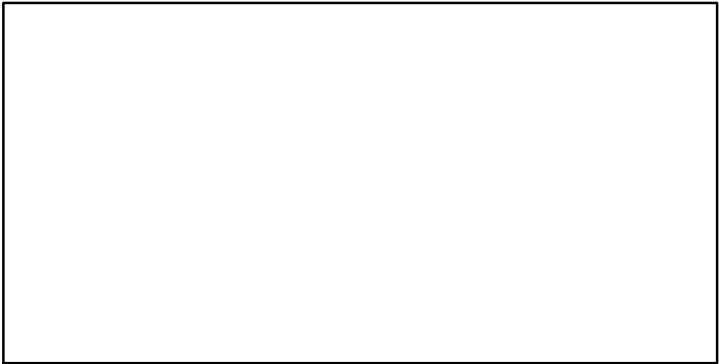
TAC*, Cpair*, Cadv*



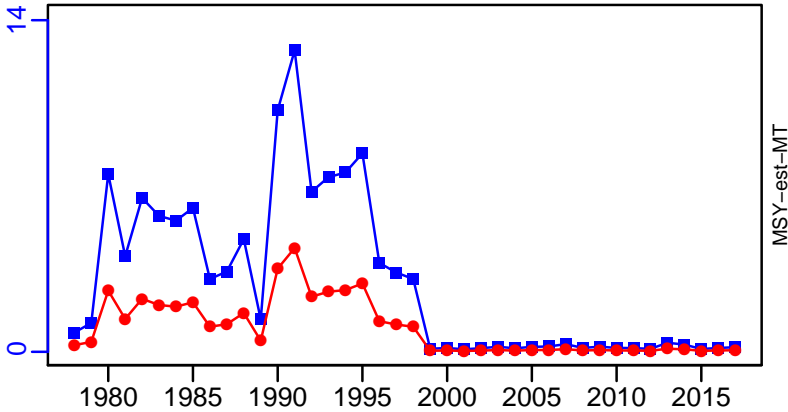
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2018-SISIMP2021)



Walleye pollock Bogoslof [WPOLLBOGO]

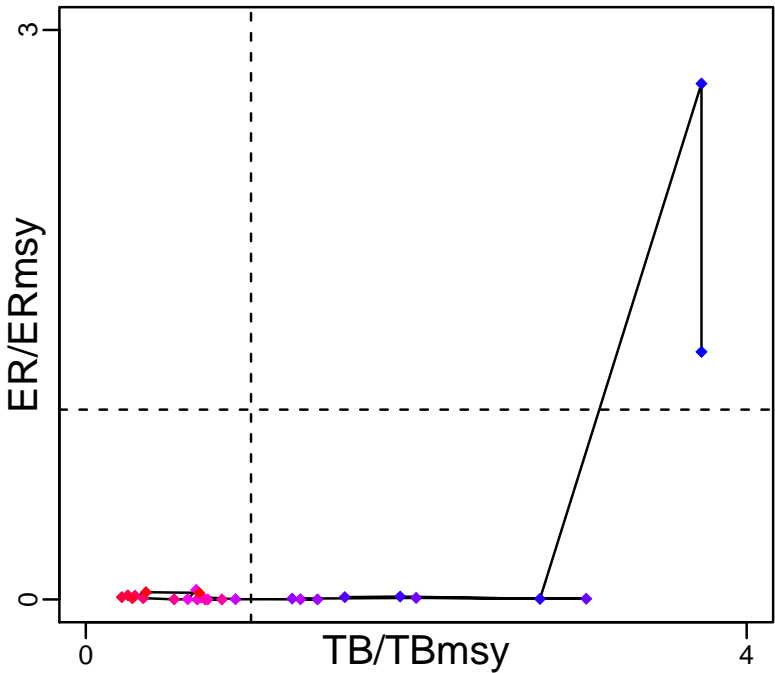
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLBOGO-1977-2017-SISIMP2021
Area	Bogoslof
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2017	336,827
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2017	0.092
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2017	30,988
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2017	0.092

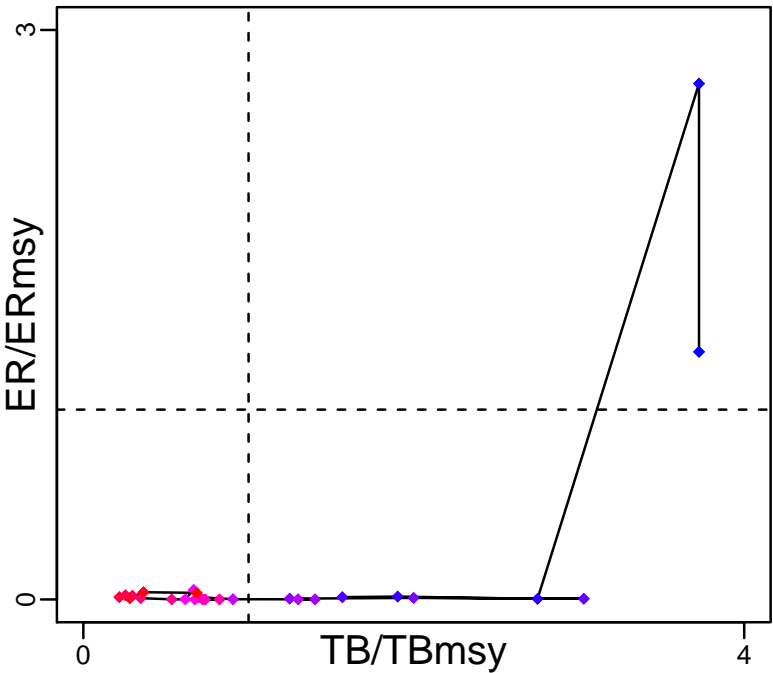
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	434,760	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.003	-	-
TC	TC-MT	2017	733		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2017	1.291		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.035		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Bogoslof [WPOLLBOGO]

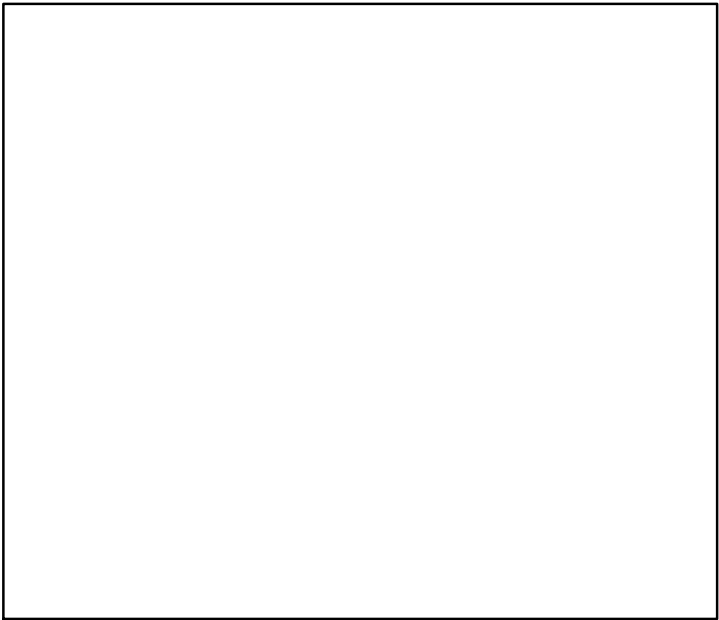
Kobe MSYpref (1977–2017–SISIMP2021)



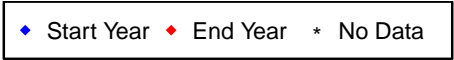
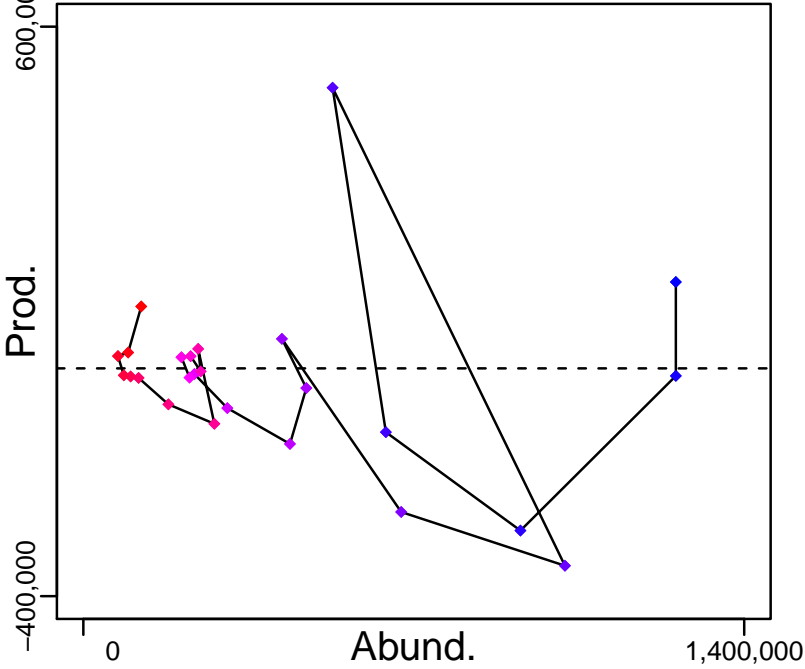
Kobe MGTpref (1977–2017–SISIMP2021)



Spawner Recruit*

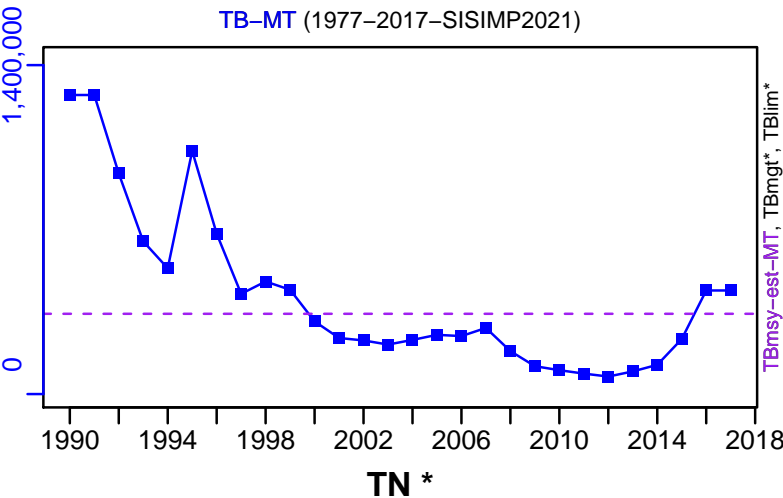


Production (1977–2017–SISIMP2021)



Walleye pollock Bogoslof [WPOLLBOGO]

TB-MT (1977-2017-SISIMP2021)



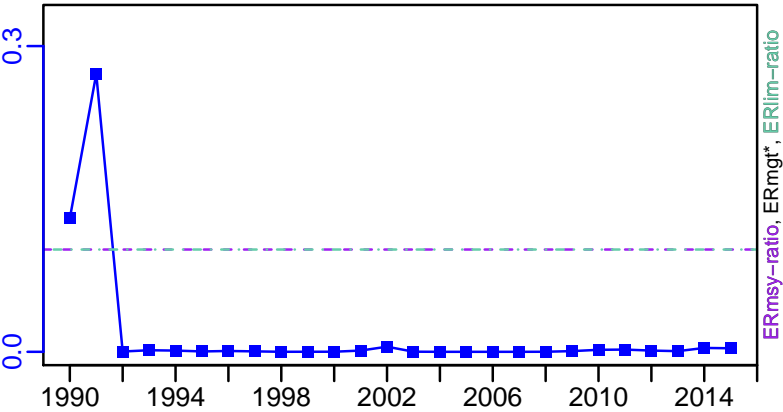
SSB*



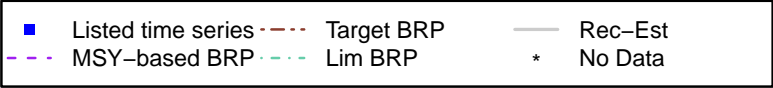
F*



ER-ratio (1977-2017-SISIMP2021)

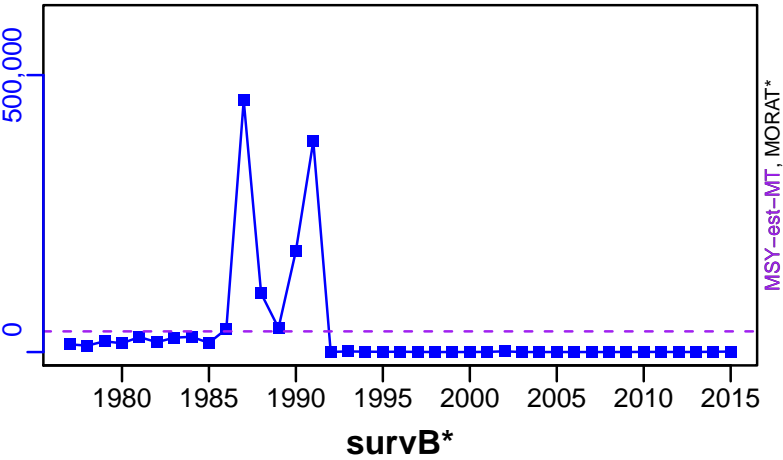


Recruits*



Walleye pollock Bogoslof [WPOLLBOGO]

TC-MT, TL*, RecC* (1977-2017-SISIMP2021)



TAC*, Cpair*, Cadv*



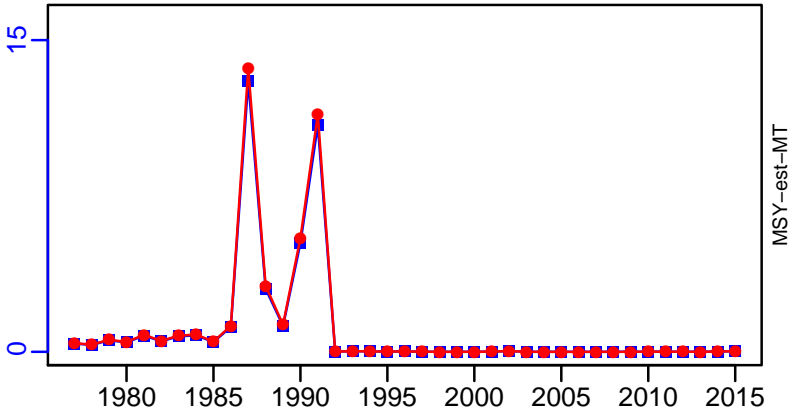
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977-2017-SISIMP2021)



Walleye pollock Eastern Bering Sea [WPOLLEBS]

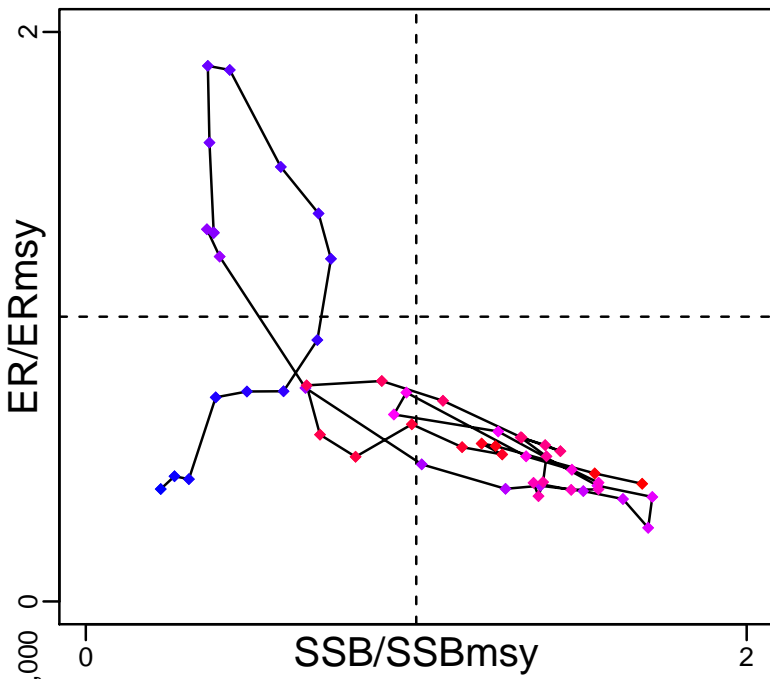
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLEBS-1963-2018-SISIMP2021
Area	Eastern Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	2,280,000
Fmsy	Fmsy-1/yr	2015	0.587
ERmsy	ERmsy-conv-ratio	2018	0.292
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2015	5,162,000
MSY	MSY-MT	2018	1,953,300
M	M-1/yr	2015	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.636
ERlim	-	-	-

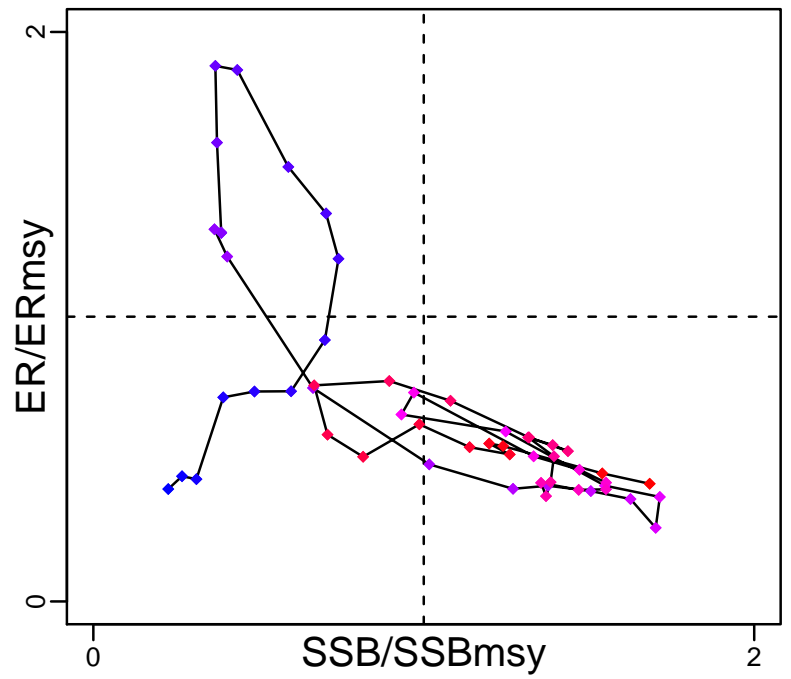
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	7,780,000	-	3+
SSB	SSB-MT	2018	3,552,790	-	-
TN	-	-	-	-	-
R	R-E00	2018	1.74×10^{13}	-	1
F	F-1/yr	2018	0.318	-	-
ER	ER-calc-ratio	2018	0.12	-	-
TC	TC-MT	2018	1,359,270		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.558		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.353		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2018	0.413		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Eastern Bering Sea [WPOLLEBS]

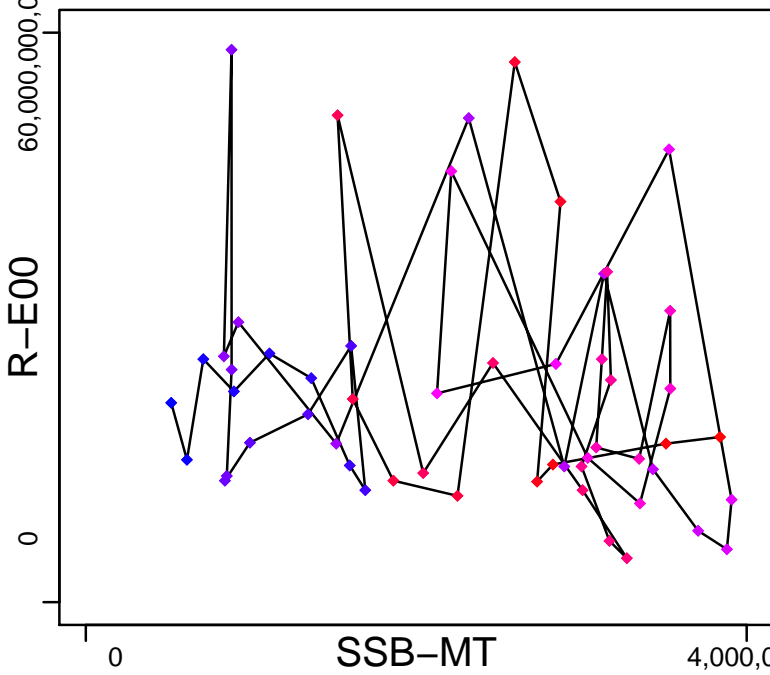
Kobe MSYpref (1963–2018–SISIMP2021)



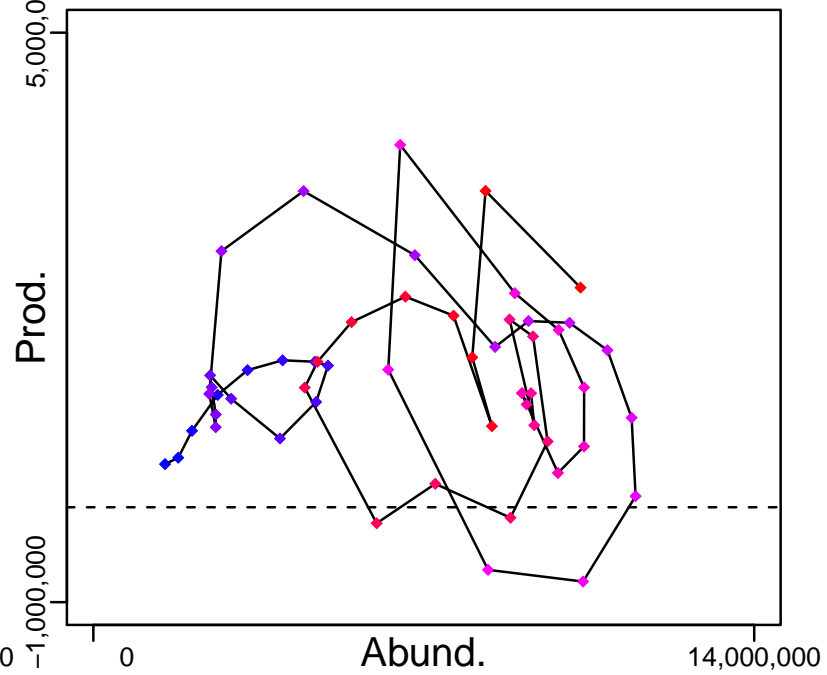
Kobe MGTpref (1963–2018–SISIMP2021)



Spawner Recruit (1963–2018–SISIMP2021)

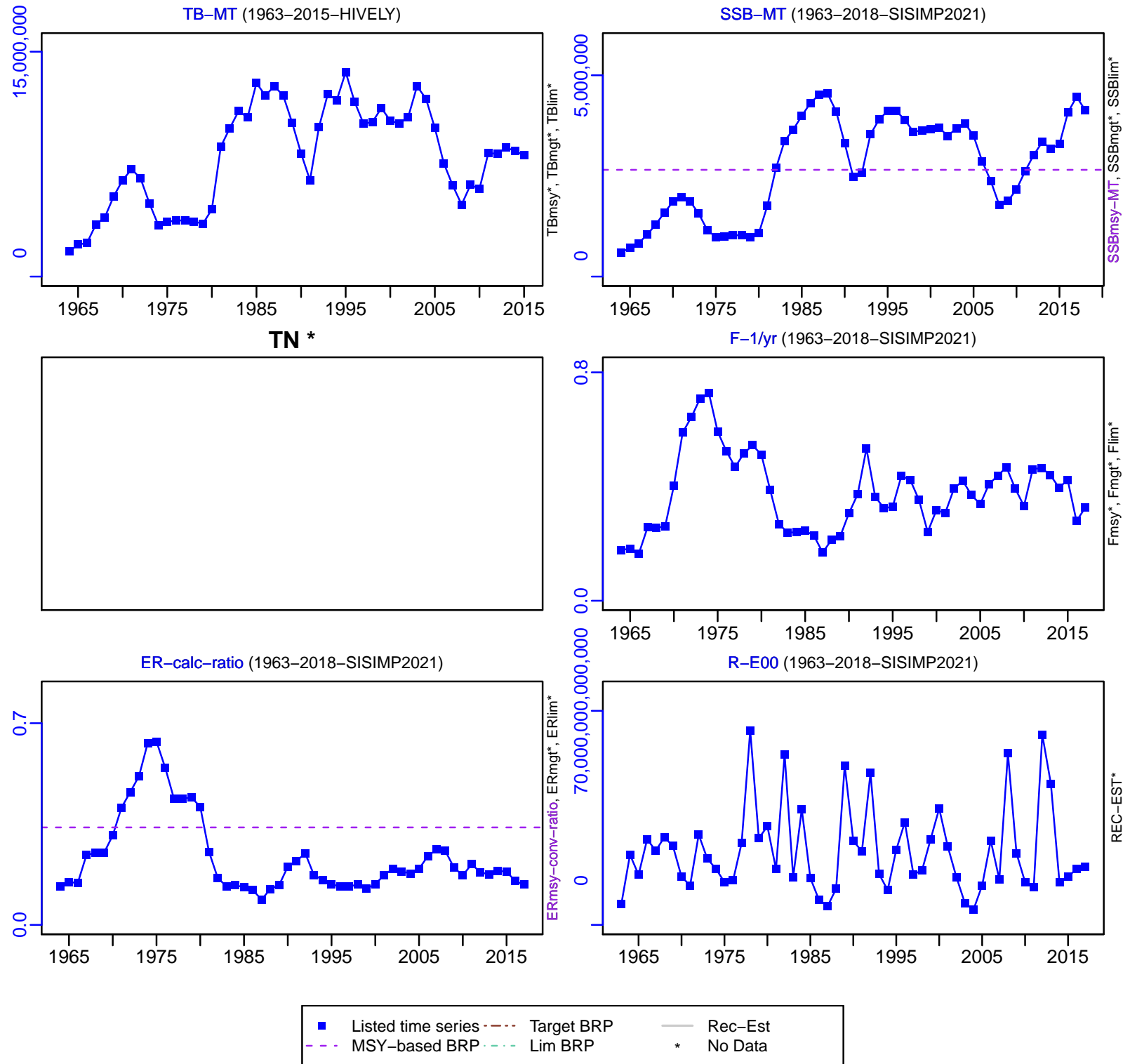


Production (1963–2018–SISIMP2021)



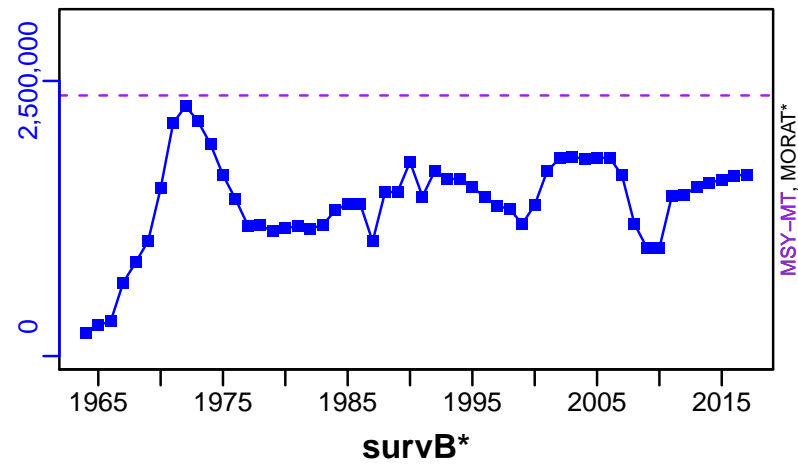
◆ Start Year ◆ End Year * No Data

Walleye pollock Eastern Bering Sea [WPOLLEBS]



Walleye pollock Eastern Bering Sea [WPOLLEBS]

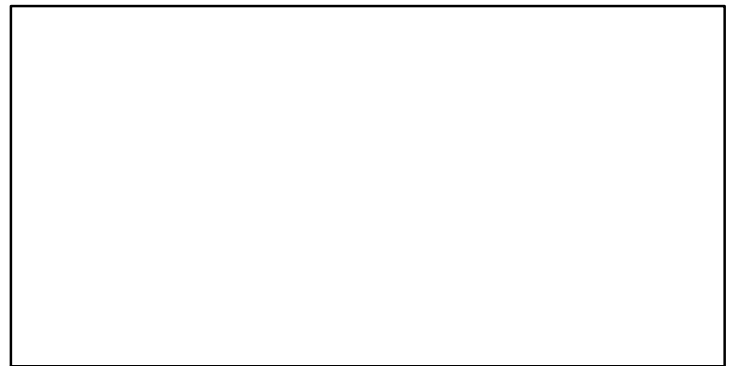
TC-MT, TL*, RecC* (1963–2018–SISIMP2021)



TAC*, Cpair*, Cadv*



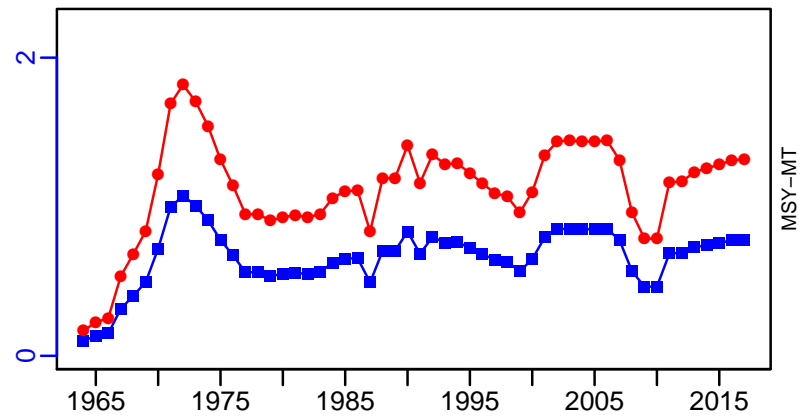
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1963–2018–SISIMP2021)



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

Walleye pollock Gulf of Alaska [WPOLLGA]

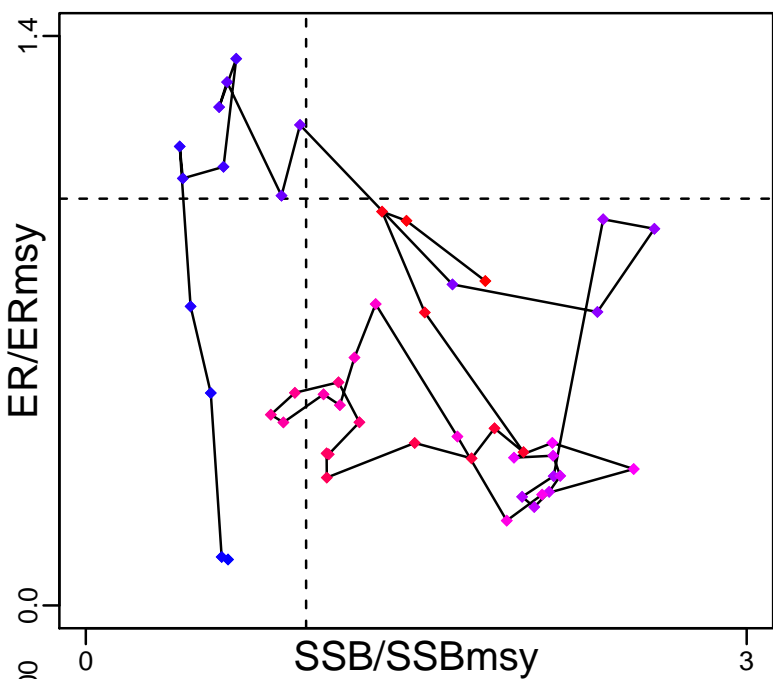
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLGA-1969-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	194,000
Fmsy	Fmsy-pr-1/yr	2014	0.285
ERmsy	ERmsy-est-ratio	2018	0.211
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	312,000
Fmgt	Fmgt-1/yr	2015	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	128,689
M	M-1/yr	2014	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.237
ERlim	-	-	-

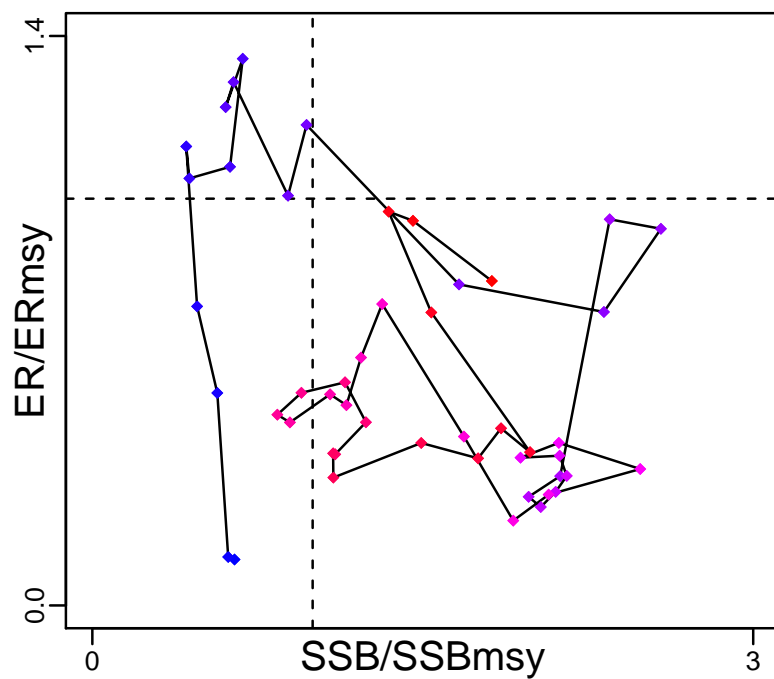
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,730,000	-	3+
SSB	SSB-MT	2018	325,544	-	-
TN	-	-	-	-	-
R	R-E00	2018	5,414,880,000	-	1
F	F-1/yr	2018	0.182	-	-
ER	ER-calc-ratio	2018	0.168	-	-
TC	TC-MT	2018	186,157		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.678		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2014	0.621		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.798		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.09		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.838		
ER/ERmgt	-	-	-		

Walleye pollock Gulf of Alaska [WPOLLGA]

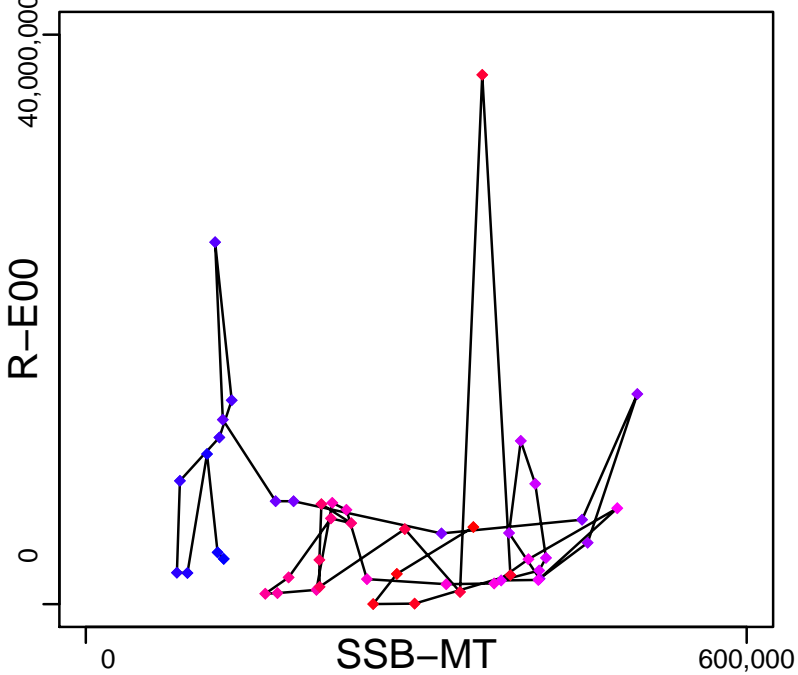
Kobe MSYpref (1969–2018–SISIMP2021)



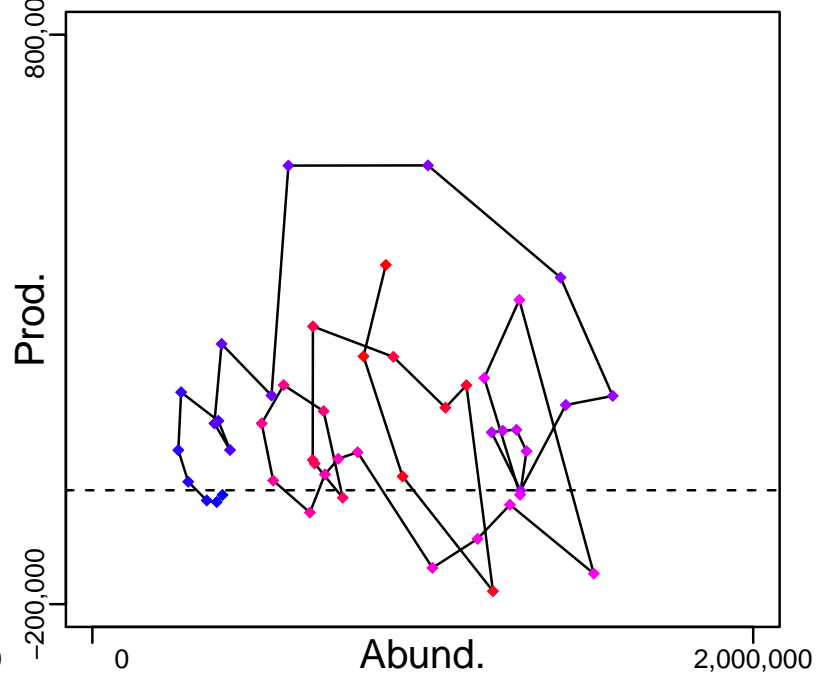
Kobe MGTpref (1969–2018–SISIMP2021)



Spawner Recruit (1969–2018–SISIMP2021)

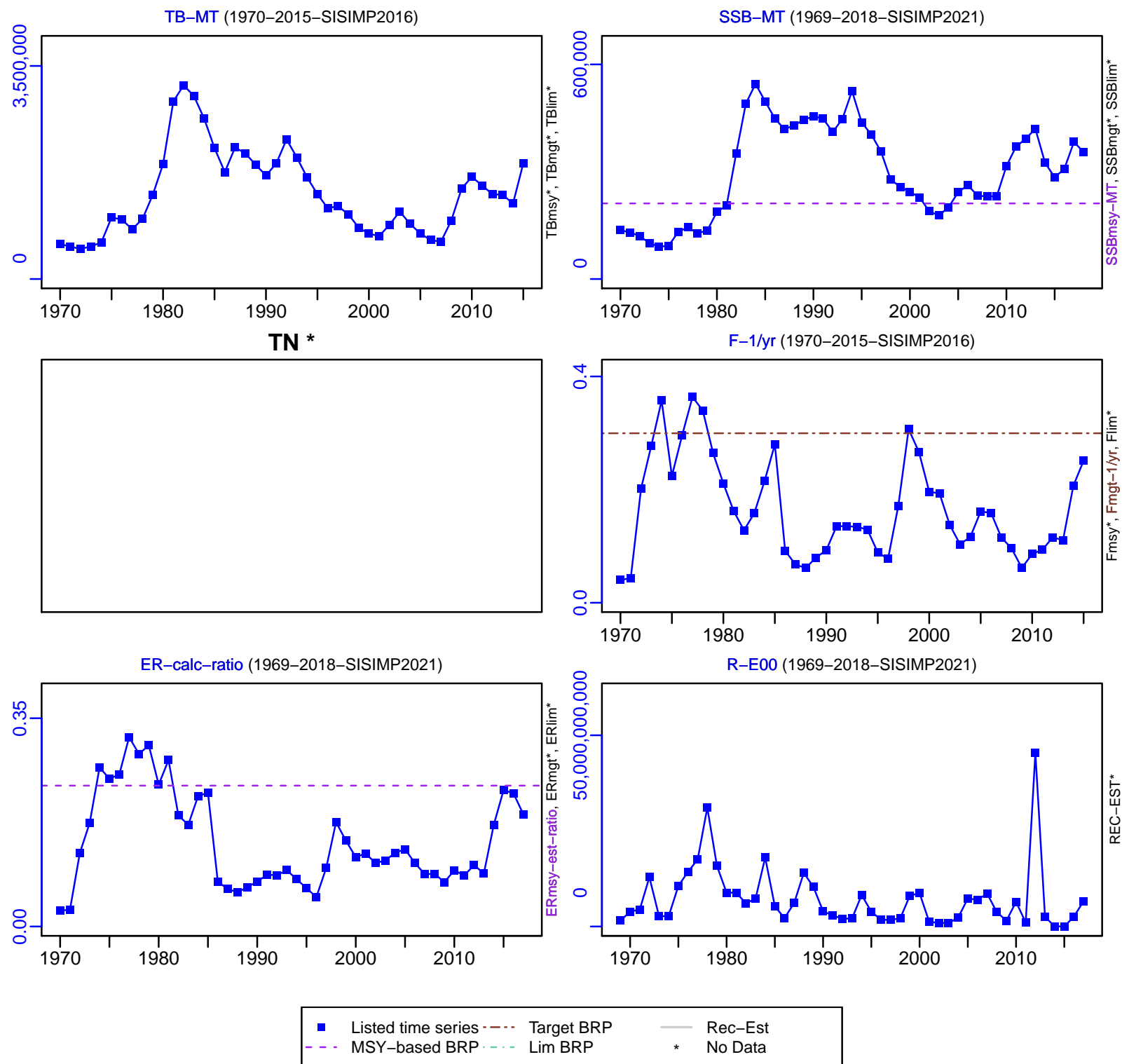


Production (1969–2018–SISIMP2021)



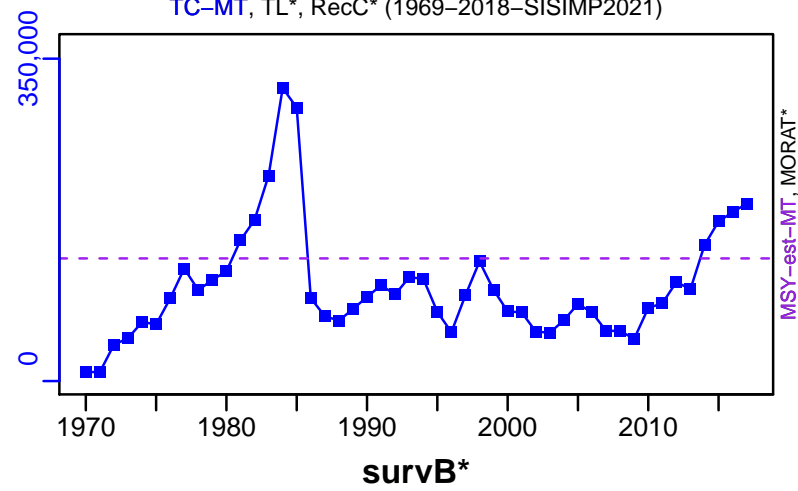
◆ Start Year ◆ End Year * No Data

Walleye pollock Gulf of Alaska [WPOLLGA]



Walleye pollock Gulf of Alaska [WPOLLGA]

TC-MT, TL*, RecC* (1969-2018-SISIMP2021)



TAC*, Cpair*, Cadv*



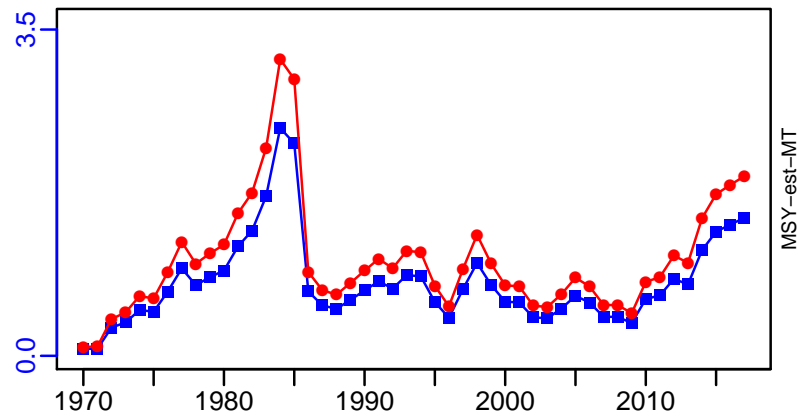
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1969-2018-SISIMP2021)



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

Weathervane scallop Alaska [WVSCALLALASKA]

Metadata	
Scientific Name	Patinopecten caurinus
Current Assess ID	AFSC-WVSCALLALASKA-1994-2017-SISIMP2021
Area	Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	582
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	106		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Weathervane scallop Alaska [WVSCALLALASKA]

TB*



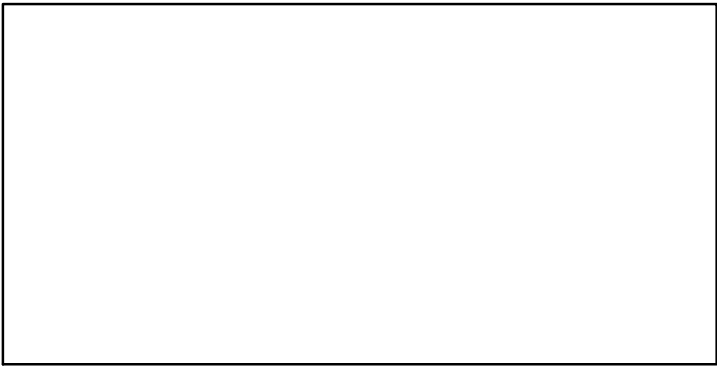
SSB*



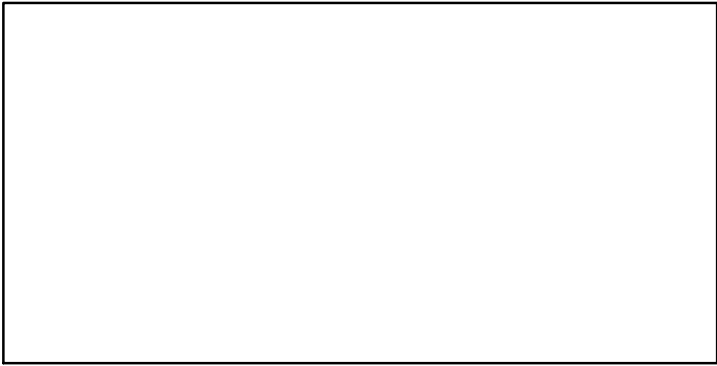
TN *



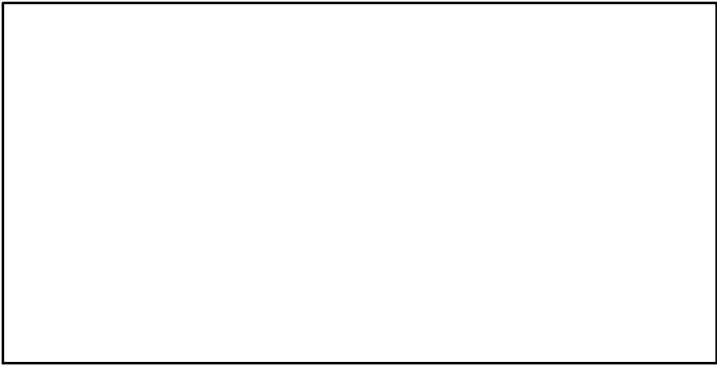
F*



ER*

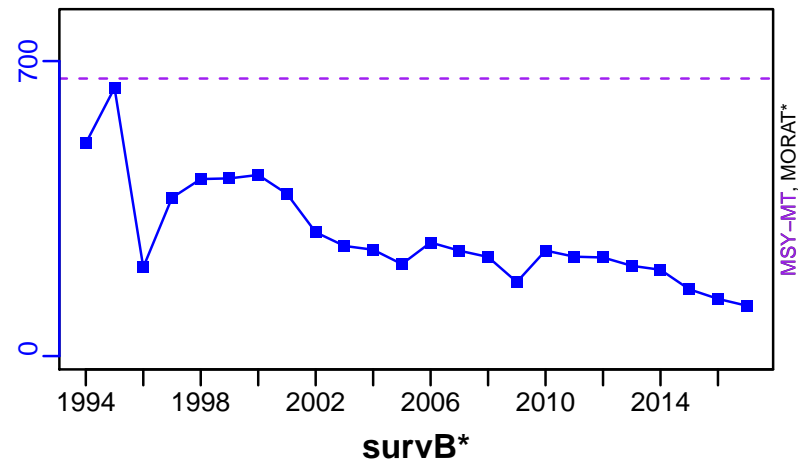


Recruits*



Weathervane scallop Alaska [WVSCALLALASKA]

TC-MT, TL*, RecC* (1994–2017–SISIMP2021)



TAC*, Cpair*, Cadv*



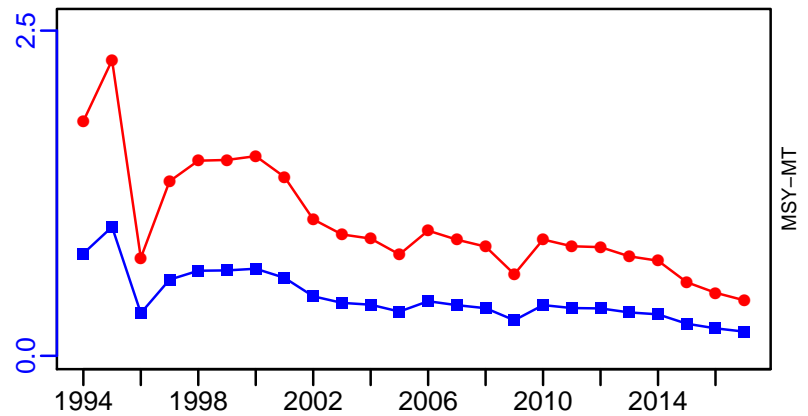
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1994–2017–SISIMP2021)



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

Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

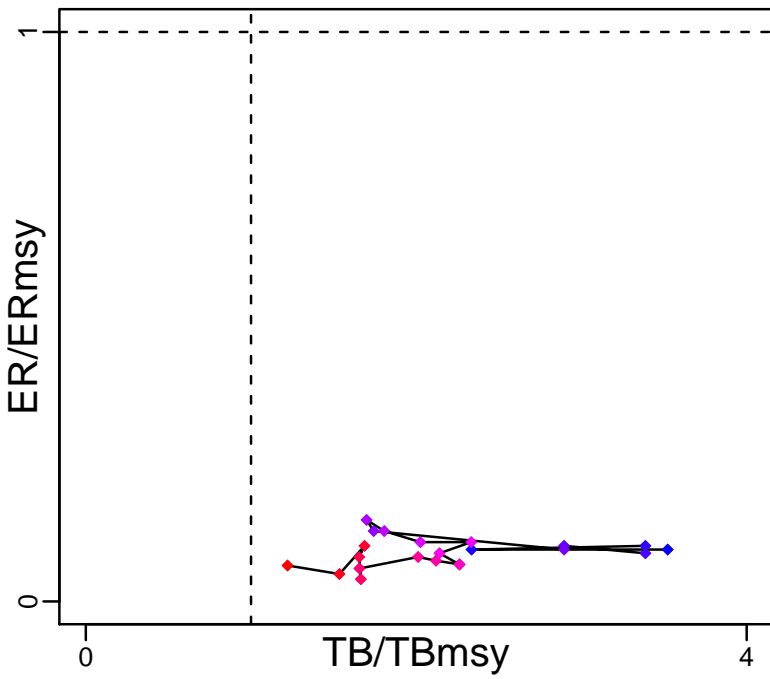
Metadata	
Scientific Name	Sebastes ruberrimus
Current Assess ID	AFSC-YEYEROCKGA-1992-2017-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2016, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	8647
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.154
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1329
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2016	0.034

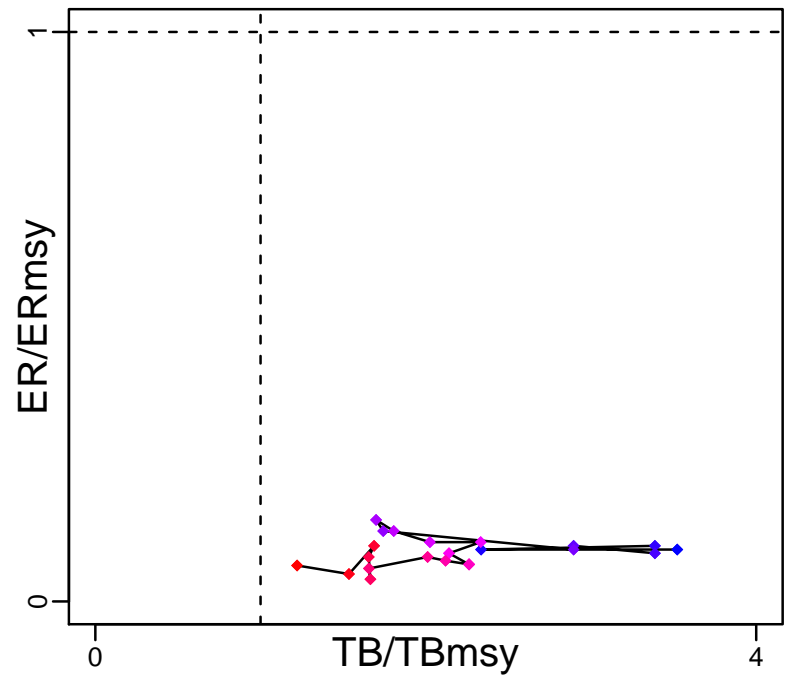
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	10,347	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.01	-	-
TC	TC-MT	2017	181		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.197		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2016	0.063		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

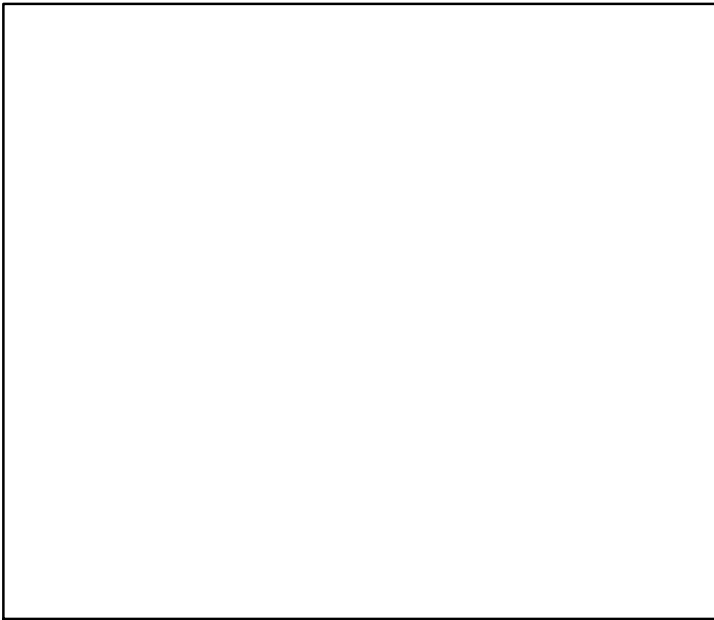
Kobe MSY_{pref} (1990–2016–SISIMP2021)



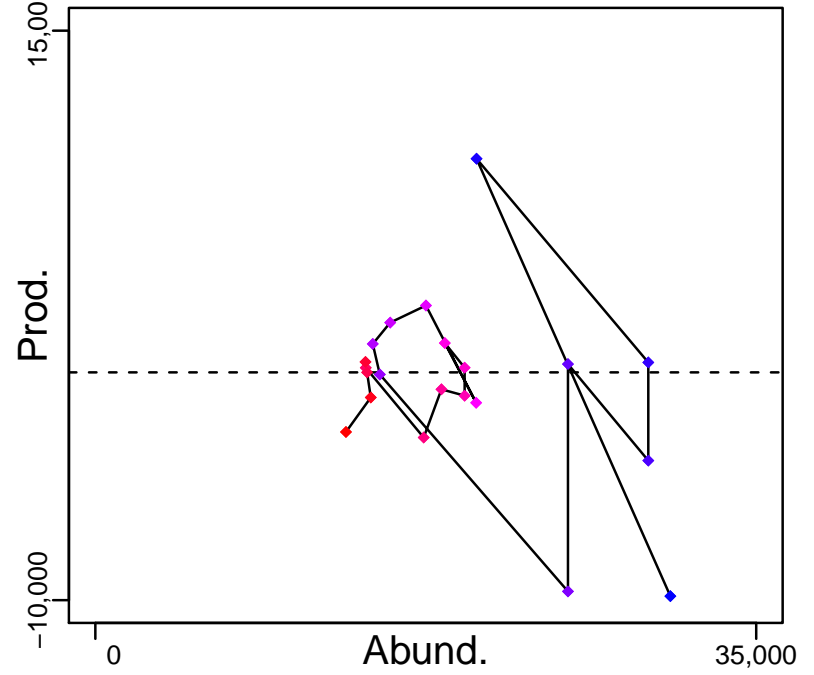
Kobe MGT_{pref} (1990–2016–SISIMP2021)



Spawner Recruit*



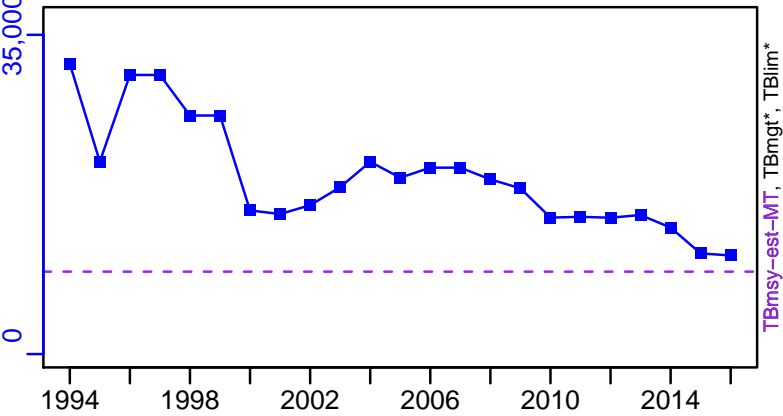
Production (1990–2016–SISIMP2021)



◆ Start Year ◆ End Year * No Data

Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

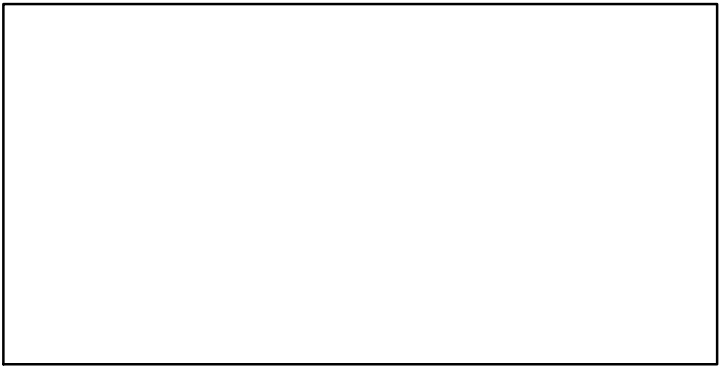
TB-MT (1990-2016-SISIMP2021)



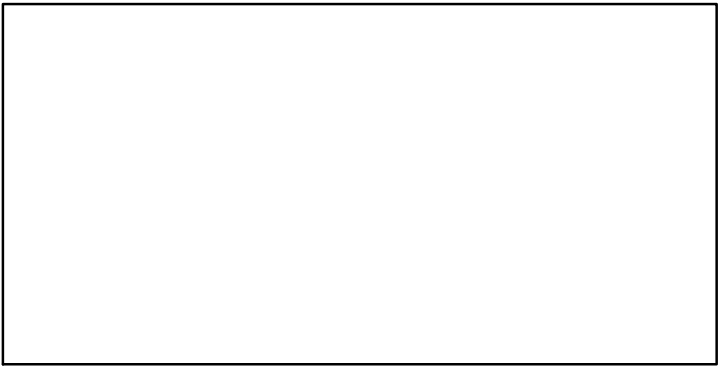
SSB*



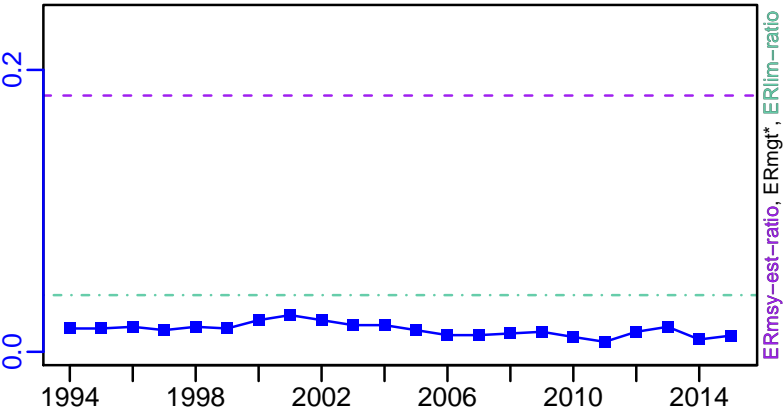
TN *



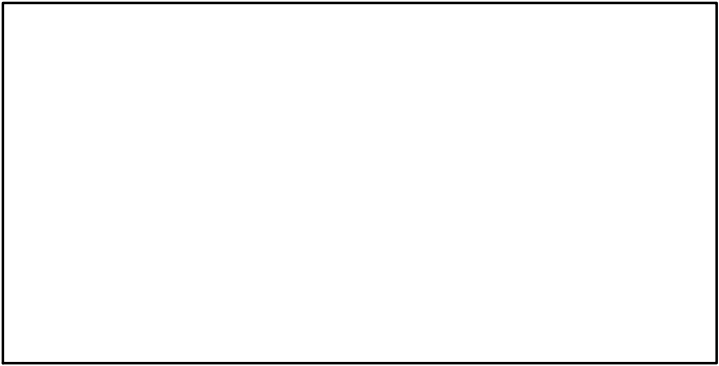
F*



ER-ratio (1990-2016-SISIMP2021)



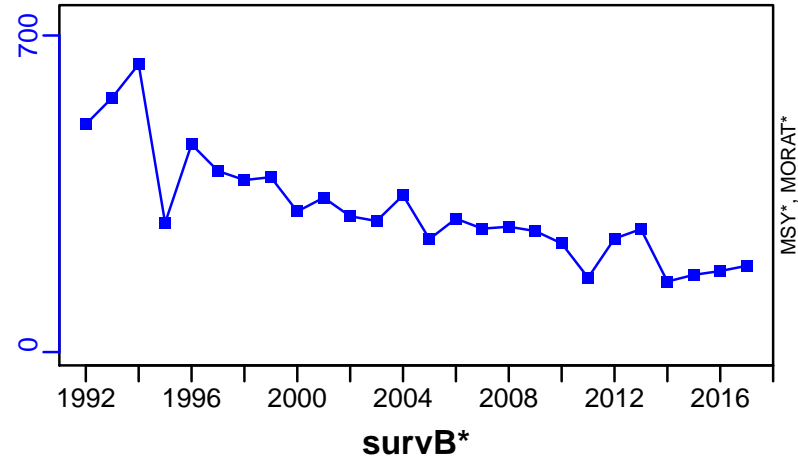
Recruits*



Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

TC-MT, TL*, RecC* (1992-2017-SISIMP2021)

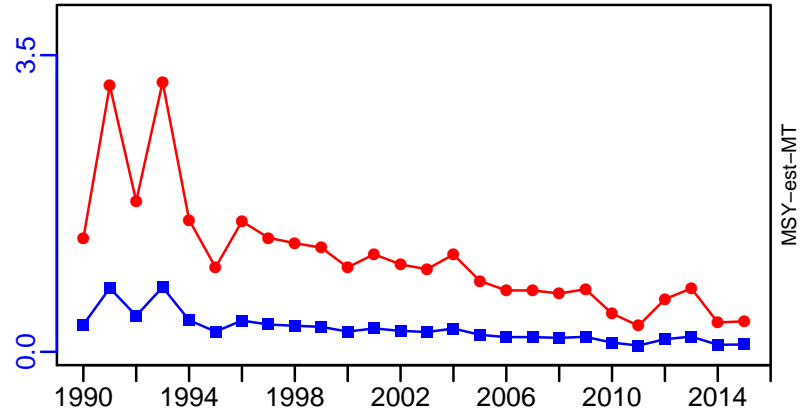
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1990-2016-SISIMP2021)



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

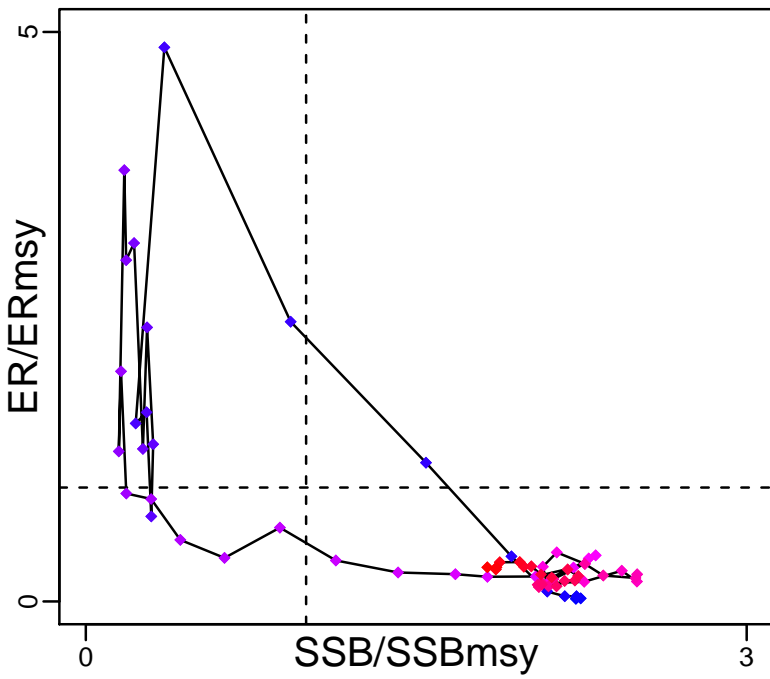
Metadata	
Scientific Name	Limanda aspera
Current Assess ID	AFSC-YSOLEBSAI-1953-2018-SISIMP2021
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	460,800
Fmsy	Fmsy-pr-1/yr	2010	0.13
ERmsy	ERmsy-est-ratio	2018	0.106
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	242,467
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.17
ERlim	-	-	-

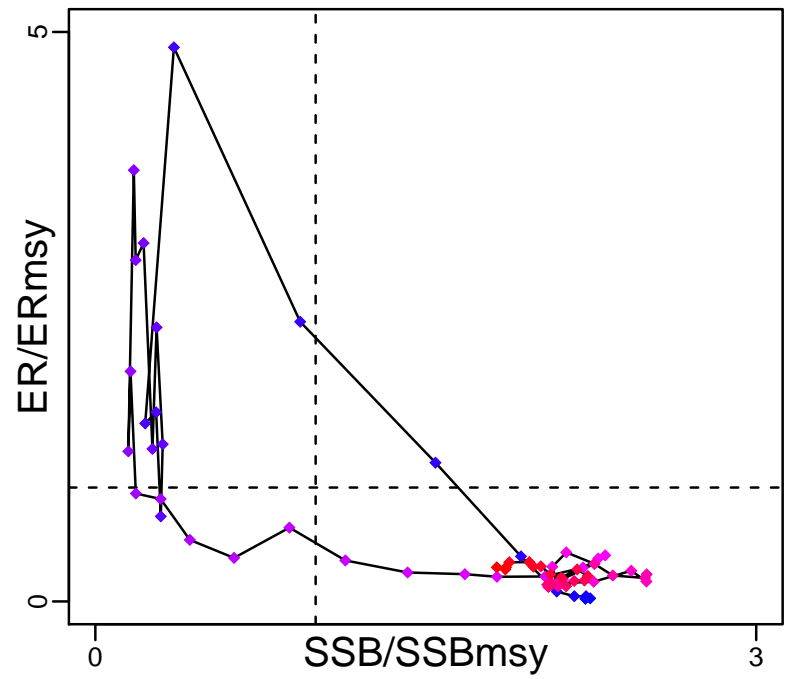
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,310,000	-	1+
SSB	SSB-MT	2018	835,050	-	-
TN	-	-	-	-	-
R	R-E00	2018	2,303,240	-	1
F	F-1/yr	2018	0.078	-	-
ER	ER-calc-ratio	2018	0.032	-	-
TC	TC-MT	2018	132,297		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.812		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.615		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.299		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

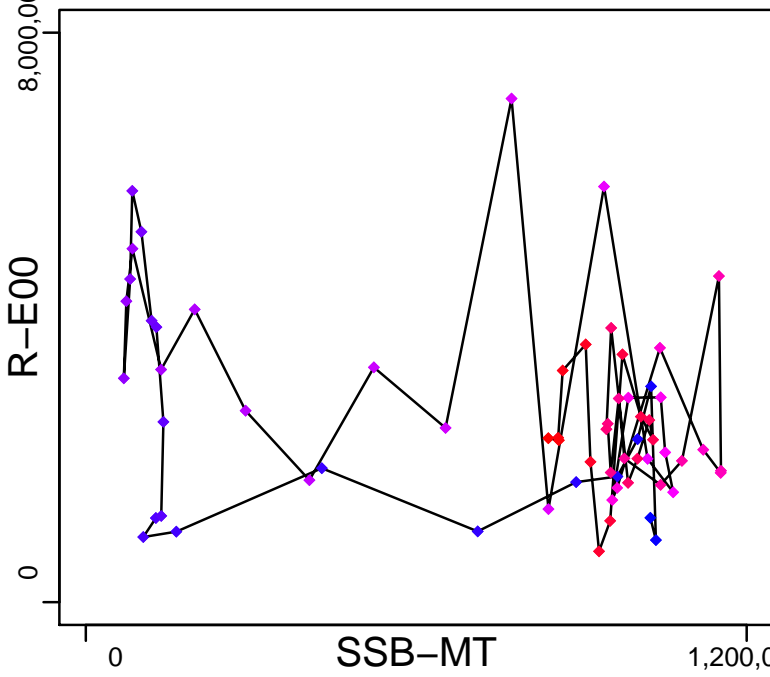
Kobe MSY_{pref} (1953–2018–SISIMP2021)



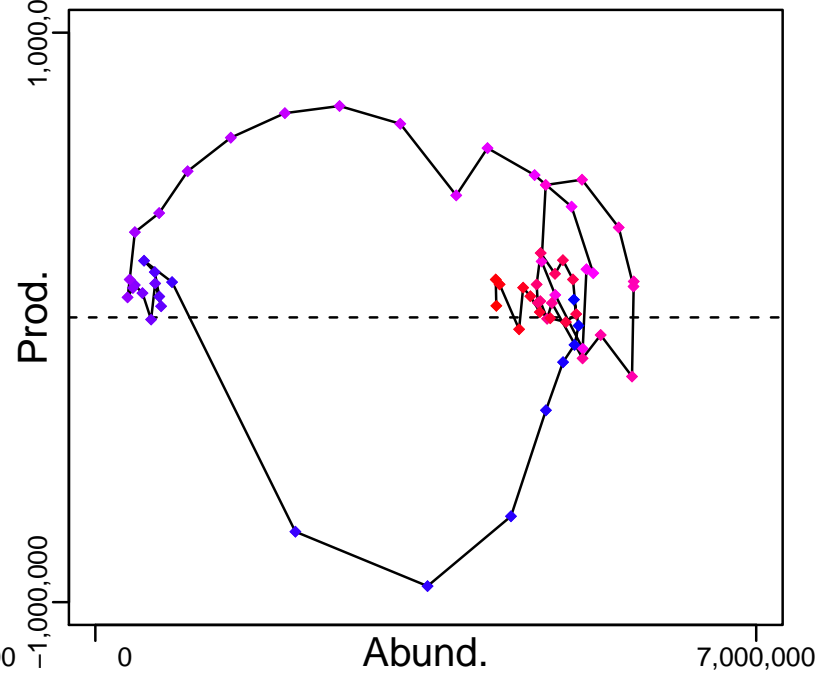
Kobe MGT_{pref} (1953–2018–SISIMP2021)



Spawner Recruit (1953–2018–SISIMP2021)



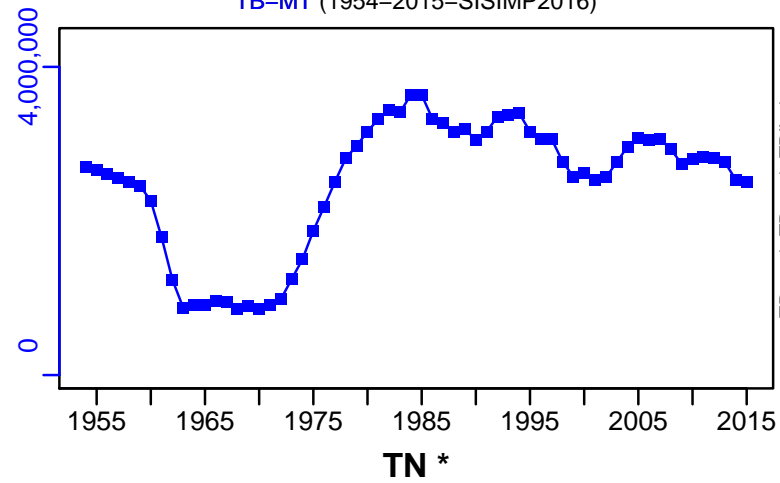
Production (1953–2018–SISIMP2021)



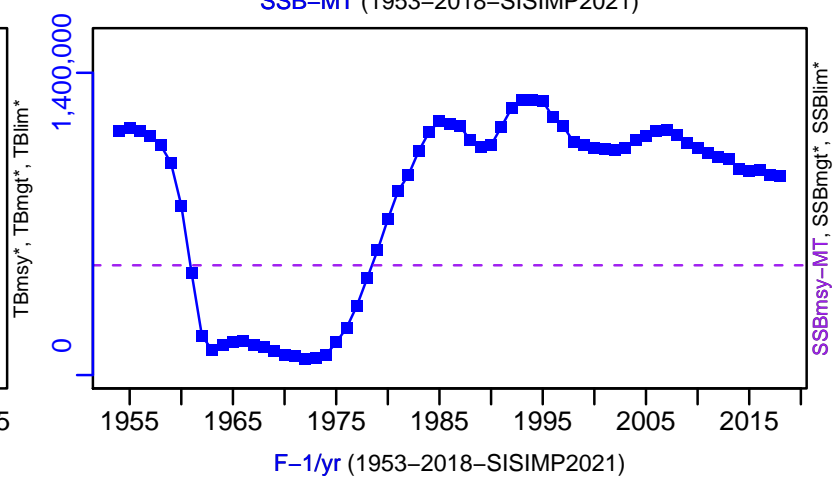
◆ Start Year ◆ End Year * No Data

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

TB-MT (1954–2015–SISIMP2016)



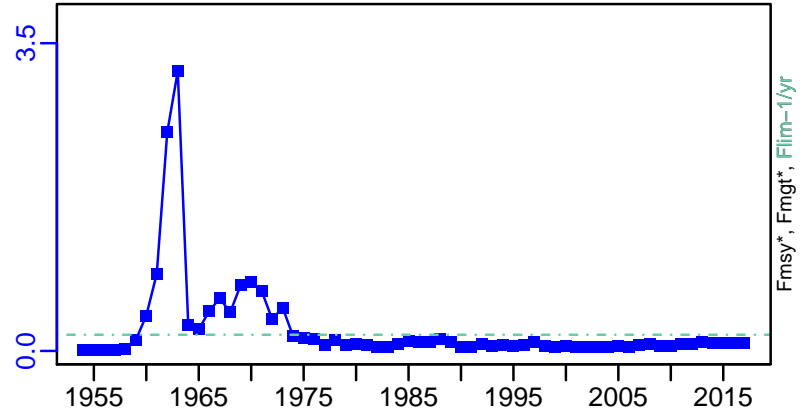
SSB-MT (1953–2018–SISIMP2021)



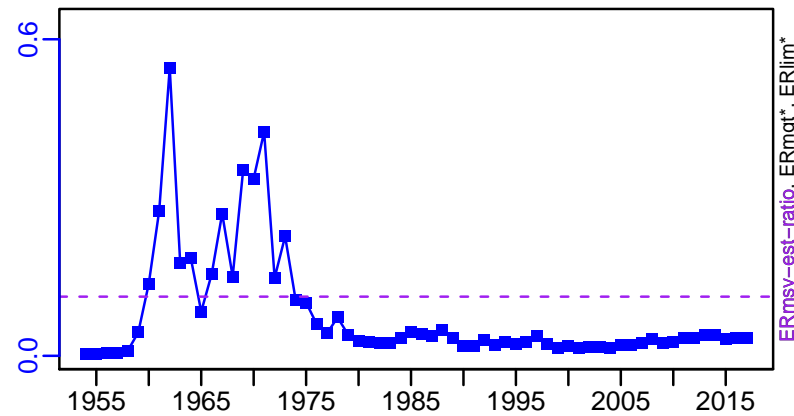
TN *



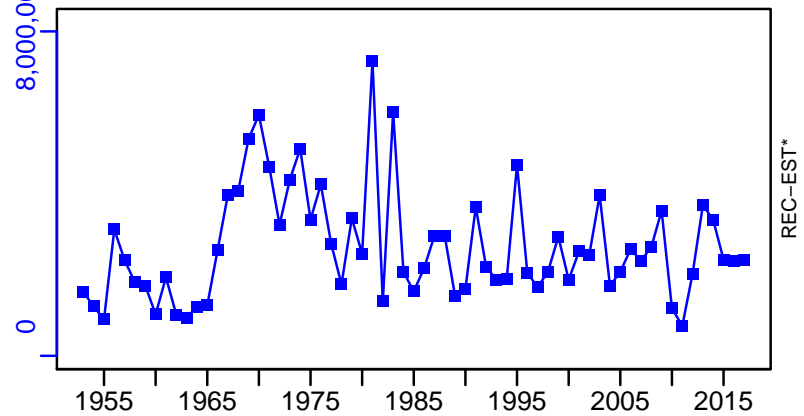
F-1/yr (1953–2018–SISIMP2021)



ER-calc-ratio (1953–2018–SISIMP2021)



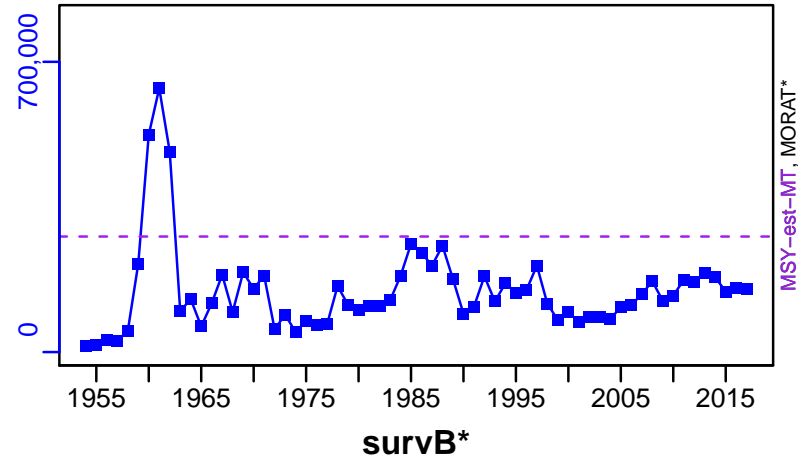
R-E00 (1953–2018–SISIMP2021)



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

TC-MT, TL*, RecC* (1953-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1953-2018-SISIMP2021)

