

US Alaska Stocks

v4.66 (Nov-03-2024)

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. BIGSKAGA [Big skate Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
8. BKINGCRABPI [Blue king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
9. BKINGCRABSMI [Blue king crab Saint Matthews Island]	TB SSB	ER F	TB SSB	ER F
10. DSOLEGA [Dover sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
11. DUSROCKGA [Dusky rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
12. FLSOLEBSAI [Flathead sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
13. FLSOLEGA [Flathead sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
14. GHALBSAI [Greenland halibut Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
15. GKCRABAIES [Golden king crab Aleutian Islands Eastern segment]	TB SSB	ER F	TB SSB	ER F
16. GKCRABAIWS [Golden king crab Aleutian Islands Western segment]	TB SSB	ER F	TB SSB	ER F
17. GKCRABPI [Golden king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
18. GPOCTOBSAI [Giant Pacific octopus Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
19. GPOCTOGA [Giant Pacific octopus Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
20. HERRPWS [Pacific herring Prince William Sound]	TB SSB	ER F	TB SSB	ER F
21. HERRSITKA [Pacific herring Sitka]	TB SSB	ER F	TB SSB	ER F
22. HERRTOG [Pacific herring Togiak District]	TB SSB	ER F	TB SSB	ER F
23. KMFLOUNBSAI [Kamchatka flounder Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
24. LNOSESKAGA [Longnose skate Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
25. NROCKBSAI [Northern rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
26. NROCKGA [Northern rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
27. NRSOLEEBSAI [Northern rock sole Eastern Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
28. NRSOLEGA [Northern rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
29. PCODAI [Pacific cod Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
30. PCODBS [Pacific cod Bering Sea]	TB SSB	ER F	TB SSB	ER F
31. PCODGA [Pacific cod Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
32. PERCHEBSAI [Pacific ocean perch Eastern Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
33. PHALNPAC [Pacific halibut North Pacific]	TB SSB	ER F	TB SSB	ER F
34. POPERCHGA [Pacific ocean perch Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F

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

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

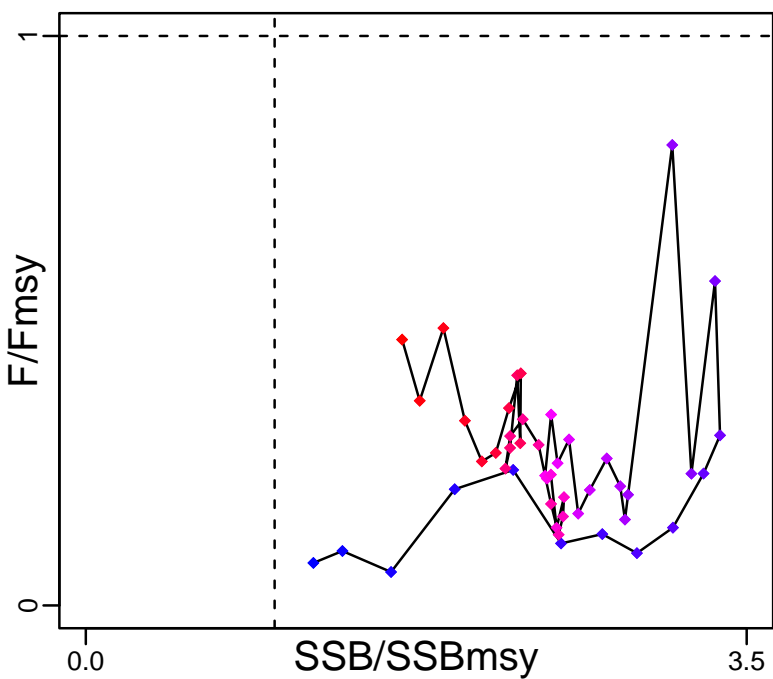
Metadata	
Scientific Name	Pleuronectes quadrituberculatus
Current Assess ID	AFSC-ALPLAICBSAI-1974-2021-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2021, 2015, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	100,306
Fmsy	Fmsy-1/yr	2021	0.17
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2019	0.147
ERlim	-	-	-

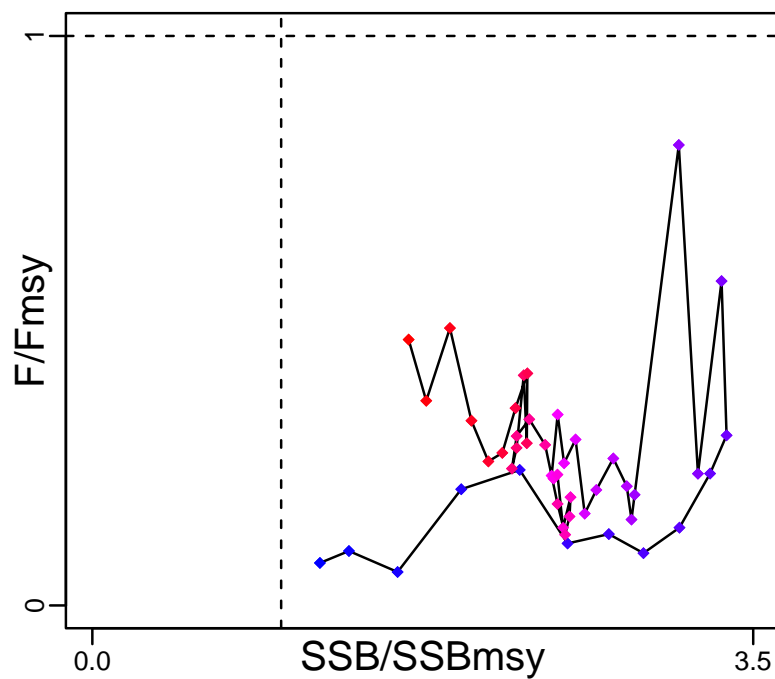
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	485,000	Both	1+
SSB	SSB-MT	2021	158,325	Females	-
TN	-	-	-	-	-
R	R-E00	2021	412,768	-	1
F	F-1/yr	2021	0.079	-	-
ER	ER-calc-ratio	2015	0.04	-	-
TC	TC-MT	2021	20,078		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.578		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.467		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

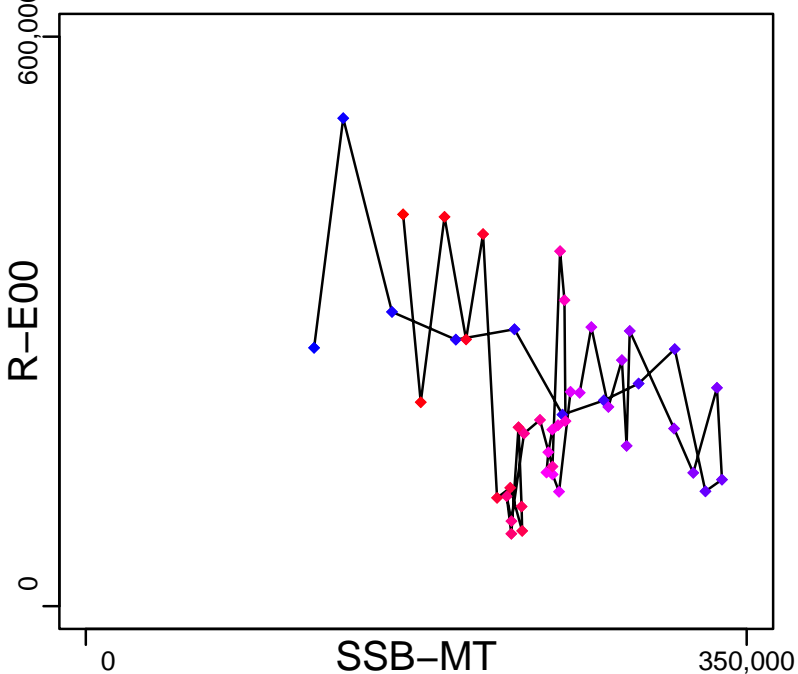
Kobe MSYpref (1974–2021–SISIMP2022)



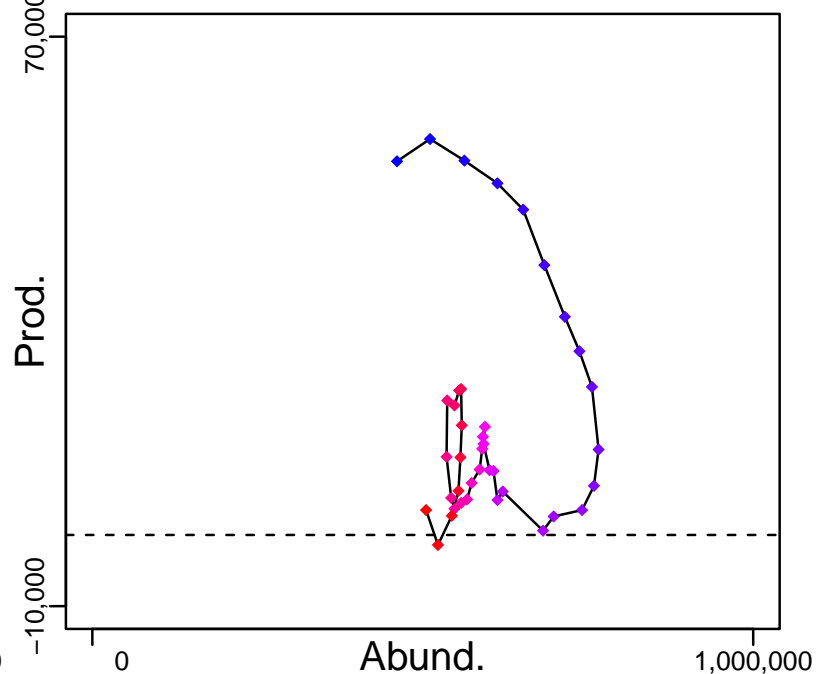
Kobe MGTpref (1974–2021–SISIMP2022)



Spawner Recruit (1974–2021–SISIMP2022)



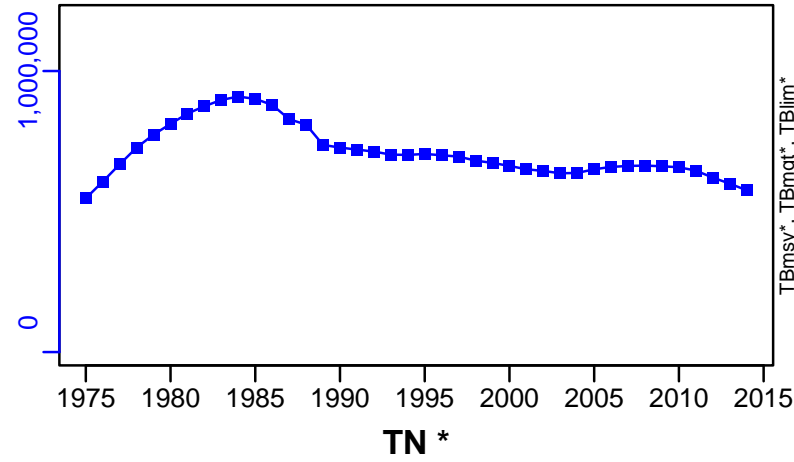
Production (1975–2015–SISIMP2016)



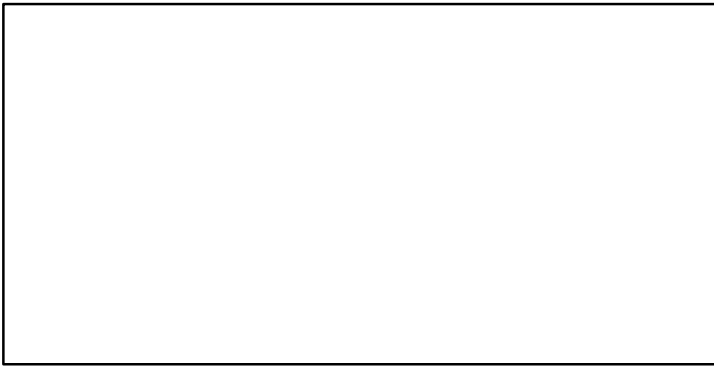
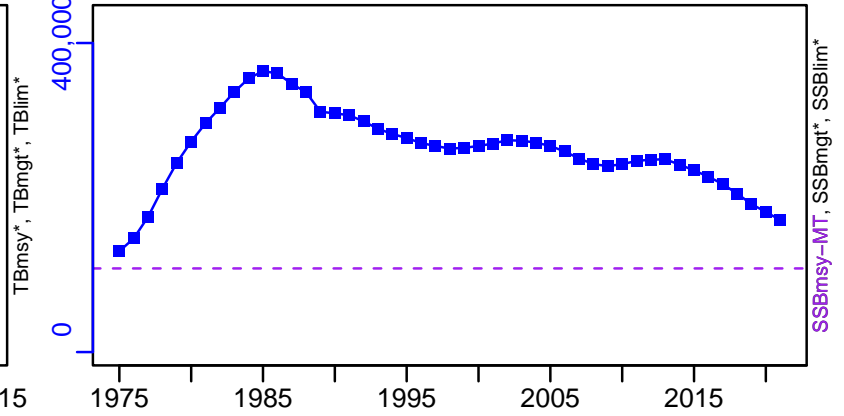
◆ Start Year ◆ End Year * No Data

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

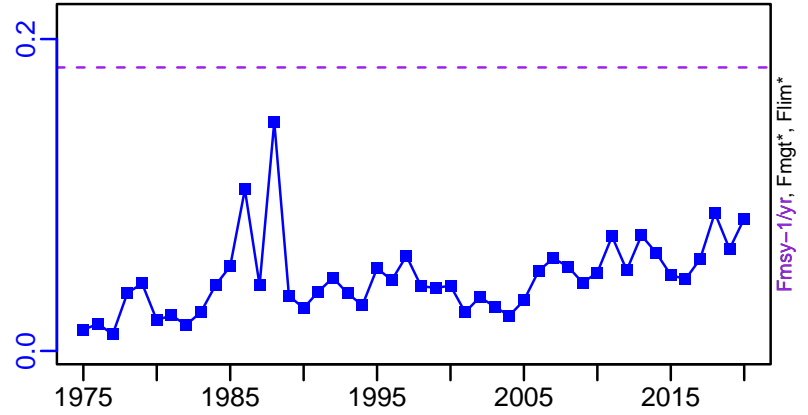
TB-MT (1975–2015–SISIMP2016)



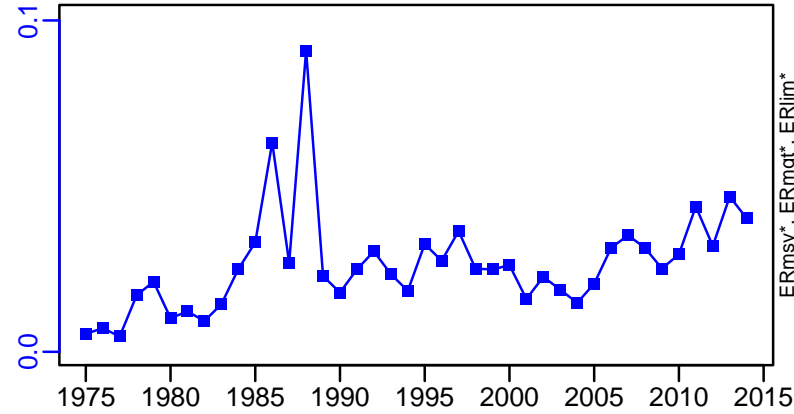
SSB-MT (1974–2021–SISIMP2022)



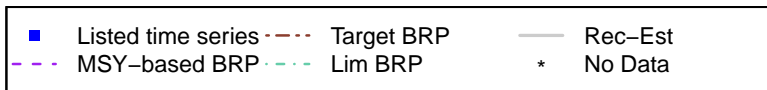
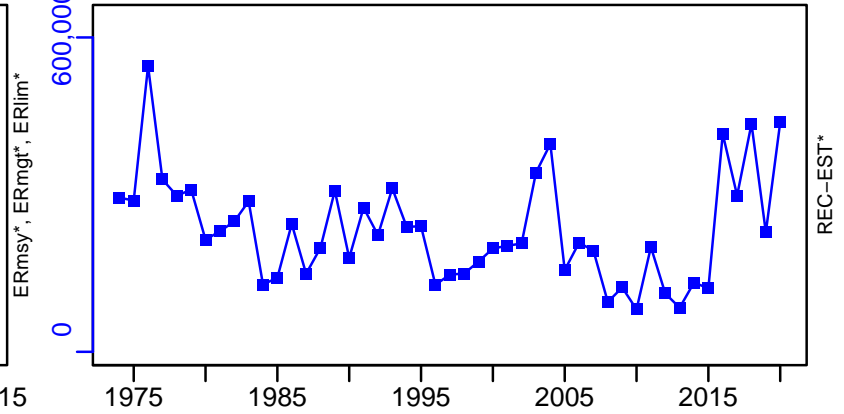
F-1/yr (1974–2021–SISIMP2022)



ER-calc-ratio (1975–2015–SISIMP2016)

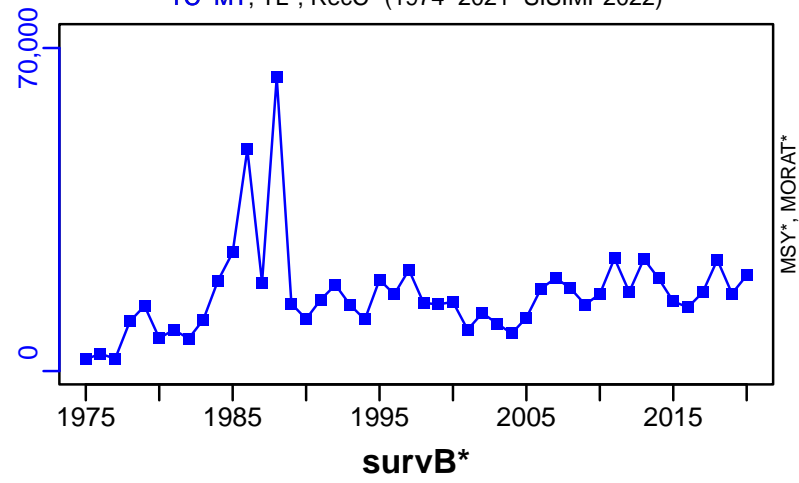


R-E00 (1974–2021–SISIMP2022)



Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

TC-MT, TL*, RecC* (1974-2021-SISIMP2022)



TAC*, Cpair*, Cadv*



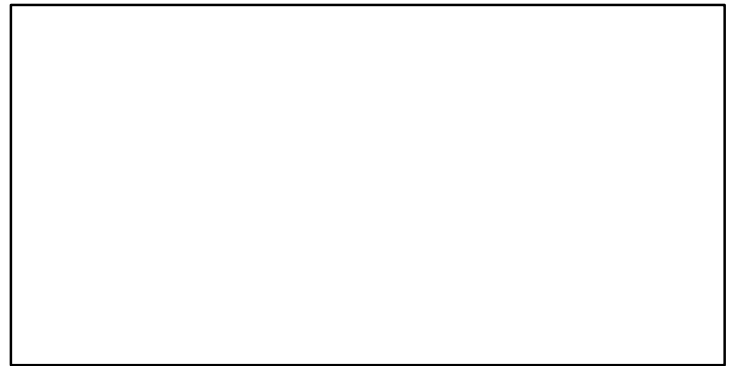
CPUE*



EFFORT*



CdivMSY*



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

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

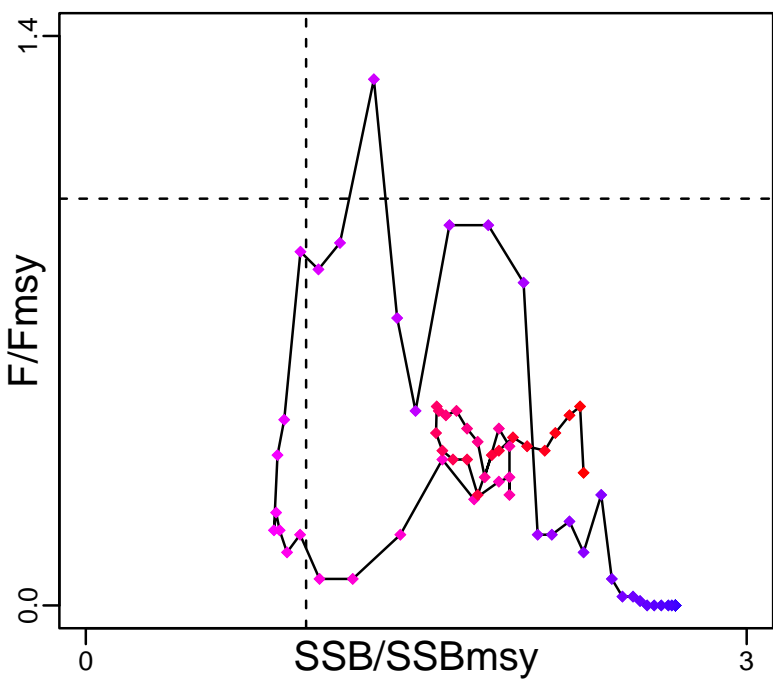
Metadata	
Scientific Name	Bathyraja parmifera
Current Assess ID	AFSC-ALSKABSAI-1950-2020-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2018, 2020, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	62,400
Fmsy	Fmsy-1/yr	2020	0.092
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.078
ERlim	-	-	-

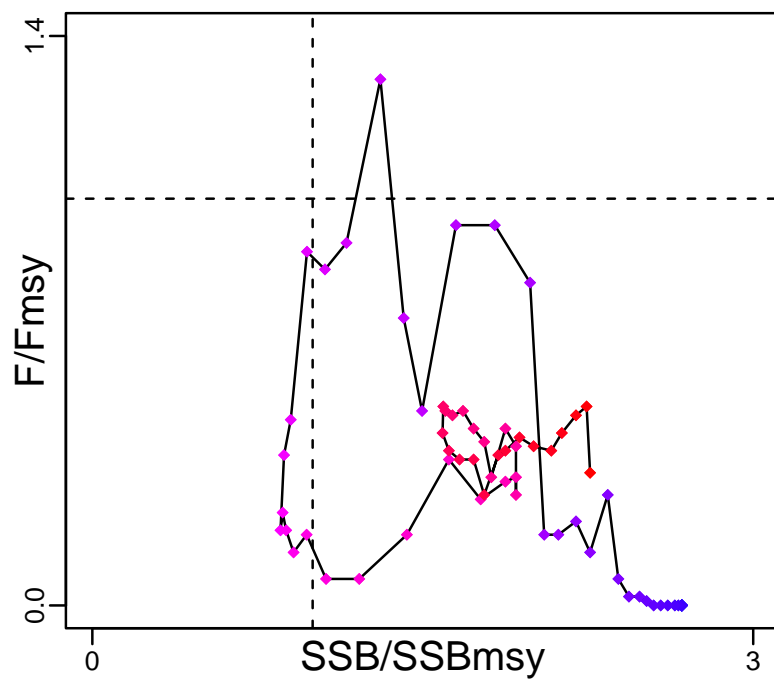
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	519,000	Both	0+
SSB	SSB-MT	2020	142,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	24,900,000	-	1
F	F-1/yr	2020	0.03	-	-
ER	ER-ratio	2018	0.052	-	-
TC	TC-MT	2020	15,500		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.276		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.326		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

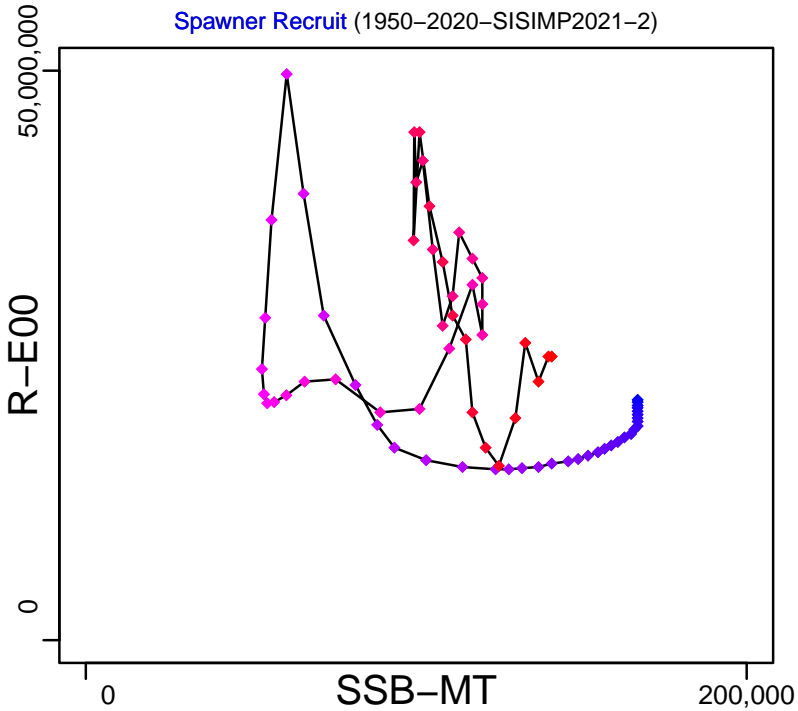
Kobe MSYpref (1950–2020–SISIMP2021–2)



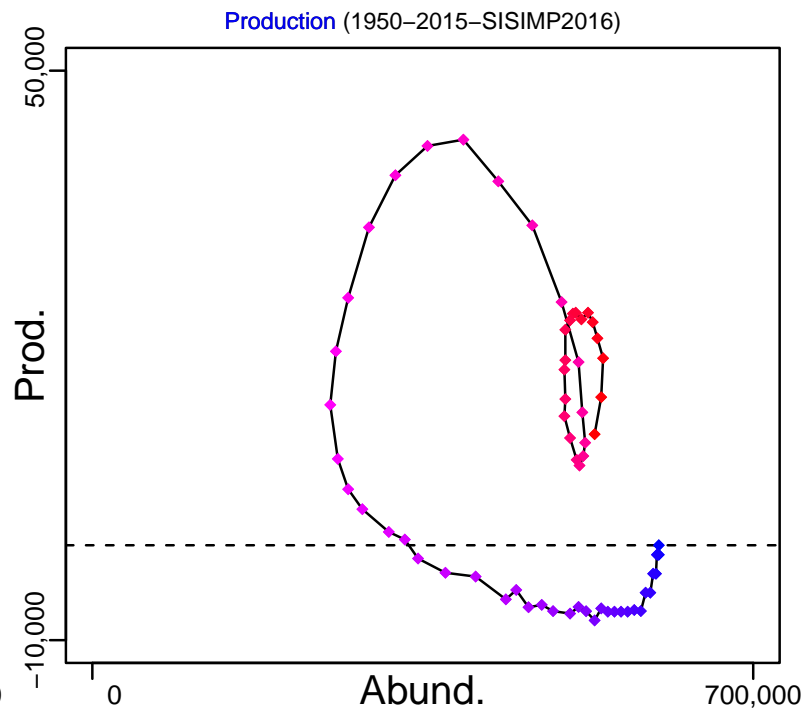
Kobe MGTpref (1950–2020–SISIMP2021–2)



Spawner Recruit (1950–2020–SISIMP2021–2)



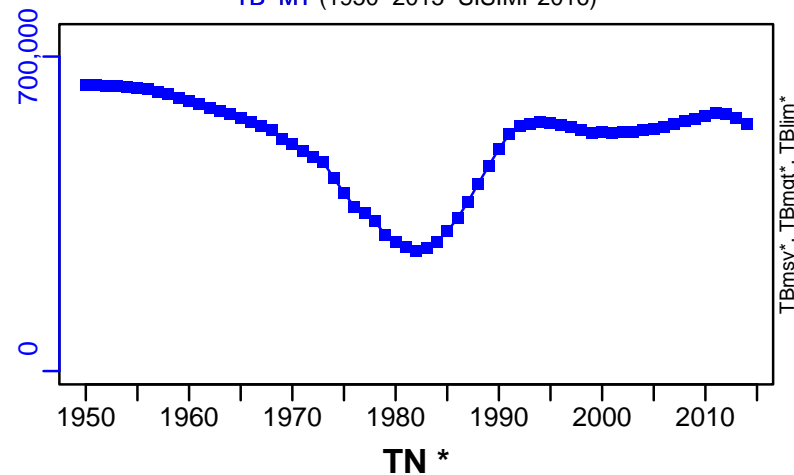
Production (1950–2015–SISIMP2016)



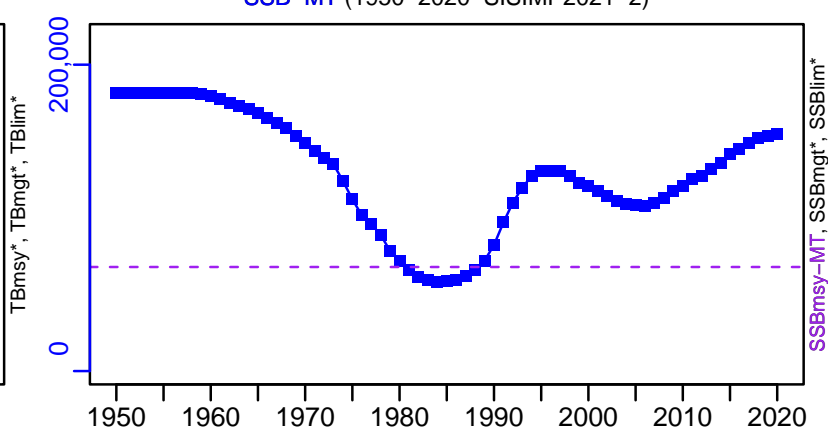
◆ Start Year ◆ End Year * No Data

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

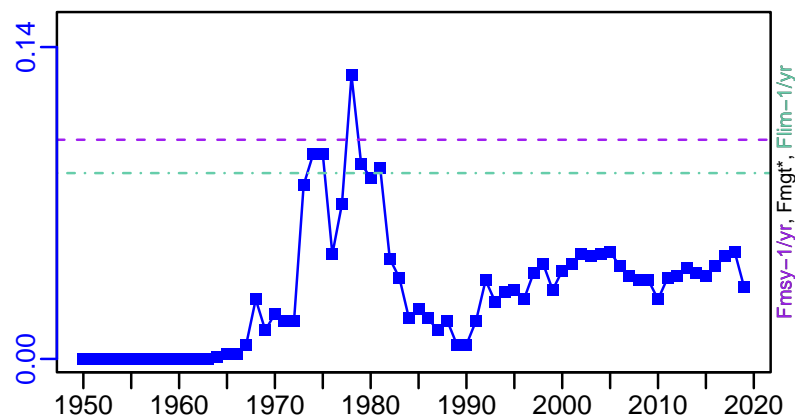
TB-MT (1950–2015–SISIMP2016)



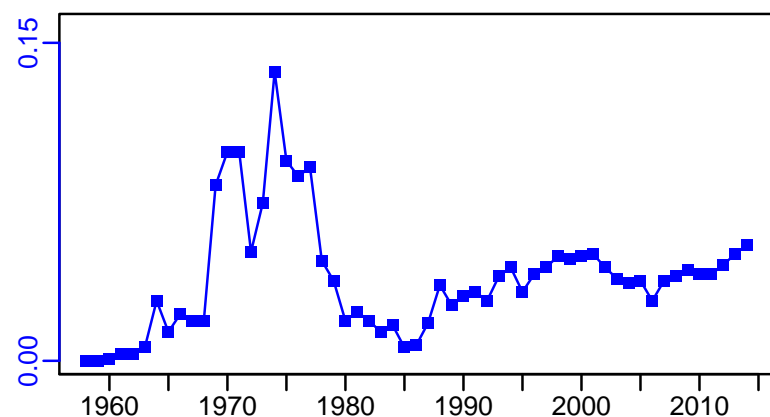
SSB-MT (1950–2020–SISIMP2021–2)



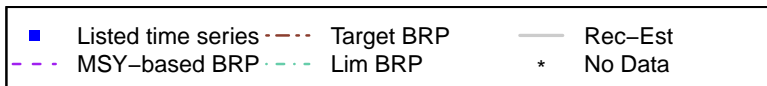
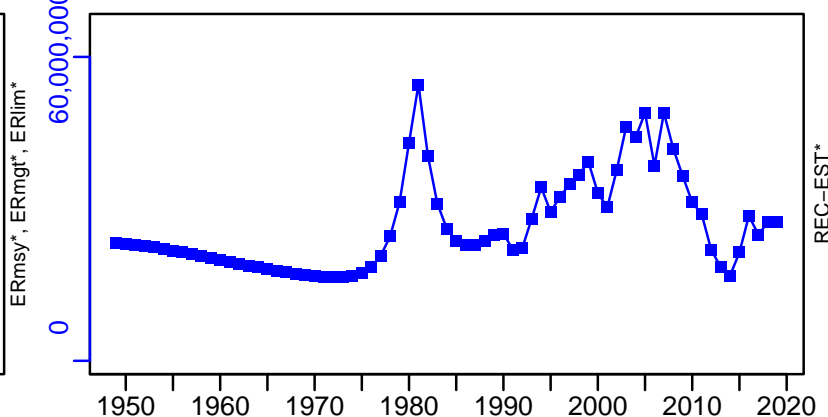
F-1/yr (1950–2020–SISIMP2021–2)



ER-ratio (1950–2018–SISIMP2021)



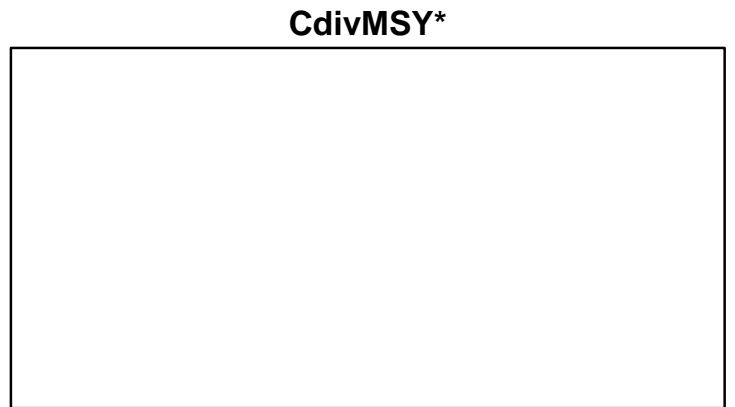
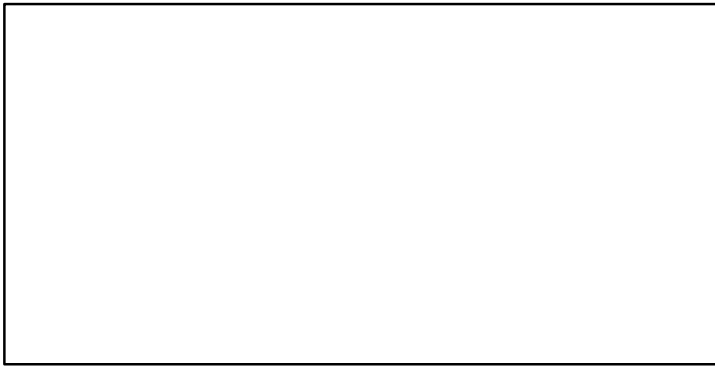
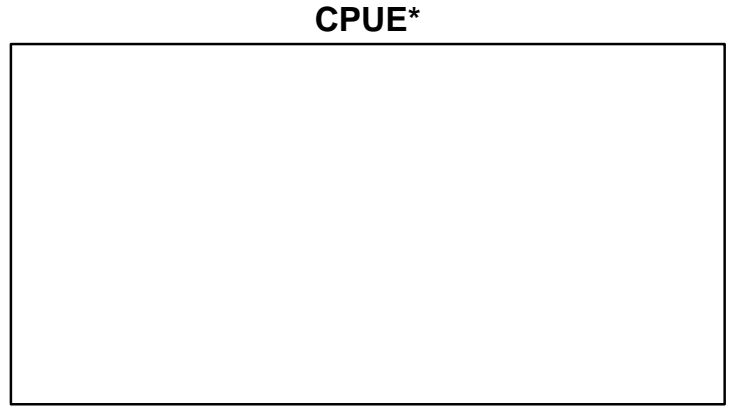
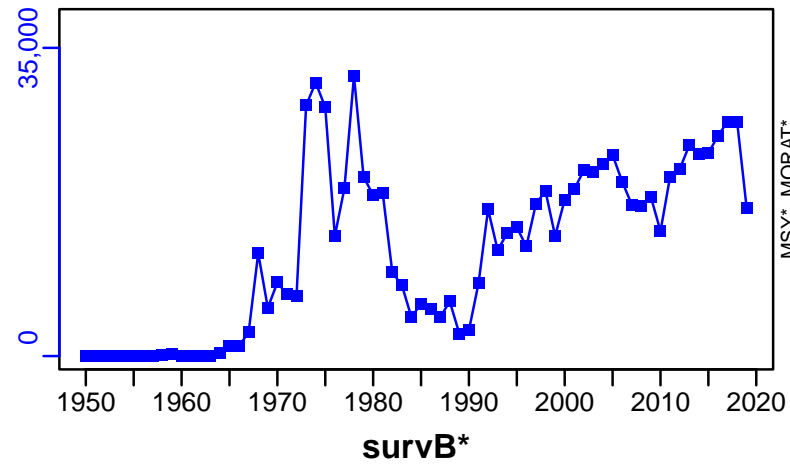
R-E00 (1950–2020–SISIMP2021–2)



Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

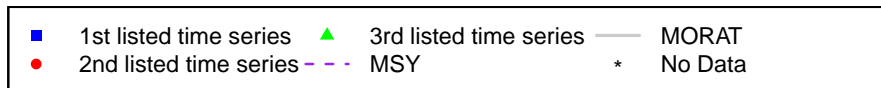
TC-MT, TL*, RecC* (1950-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

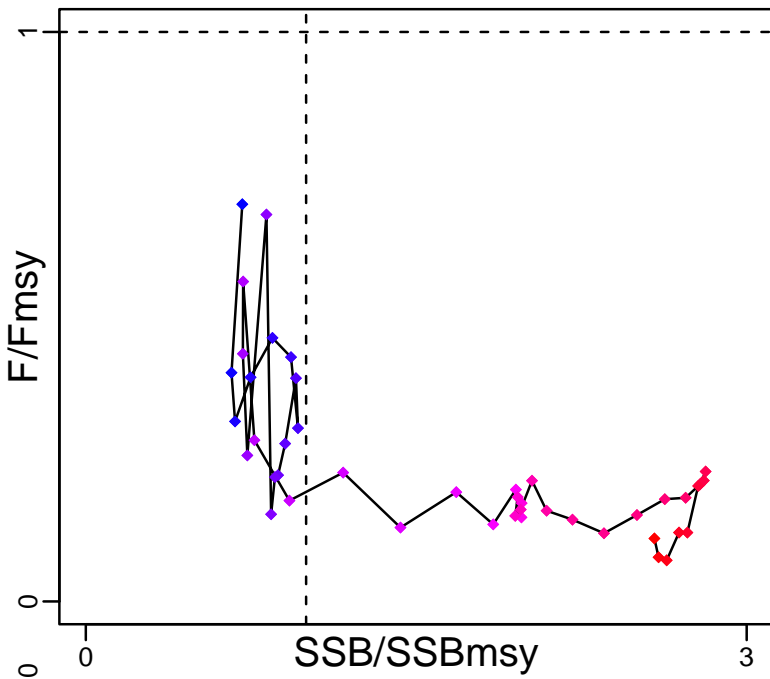
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDBSAI-1975-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2020, 2015, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	195,589
Fmsy	Fmsy-1/yr	2020	0.16
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.152
ERlim	-	-	-

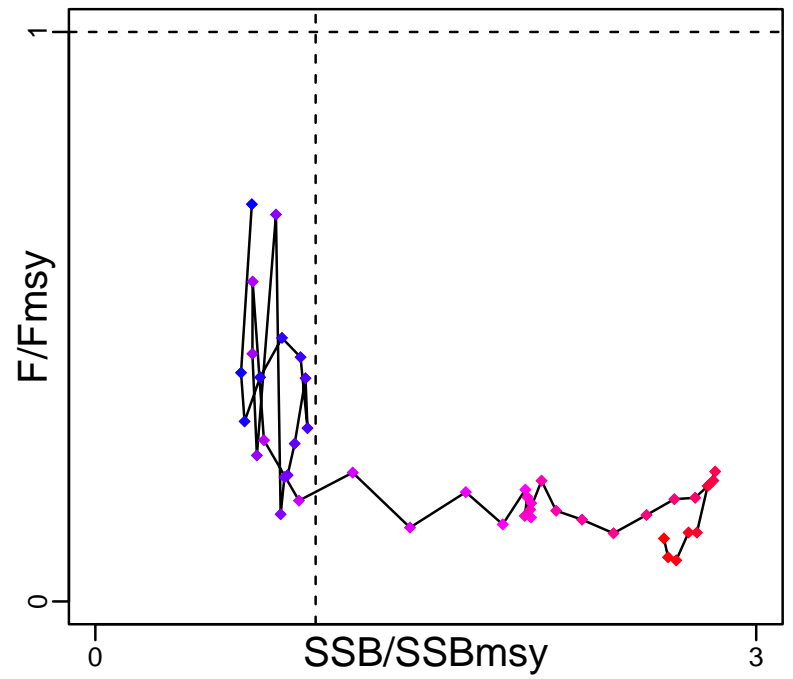
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	908,000	Both	1+
SSB	SSB-MT	2020	503,360	Females	-
TN	-	-	-	-	-
R	R-E00	2020	209,624,992	-	1
F	F-1/yr	2020	0.018	-	-
ER	ER-calc-ratio	2015	0.022	-	-
TC	TC-MT	2020	10,681		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.574		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.111		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

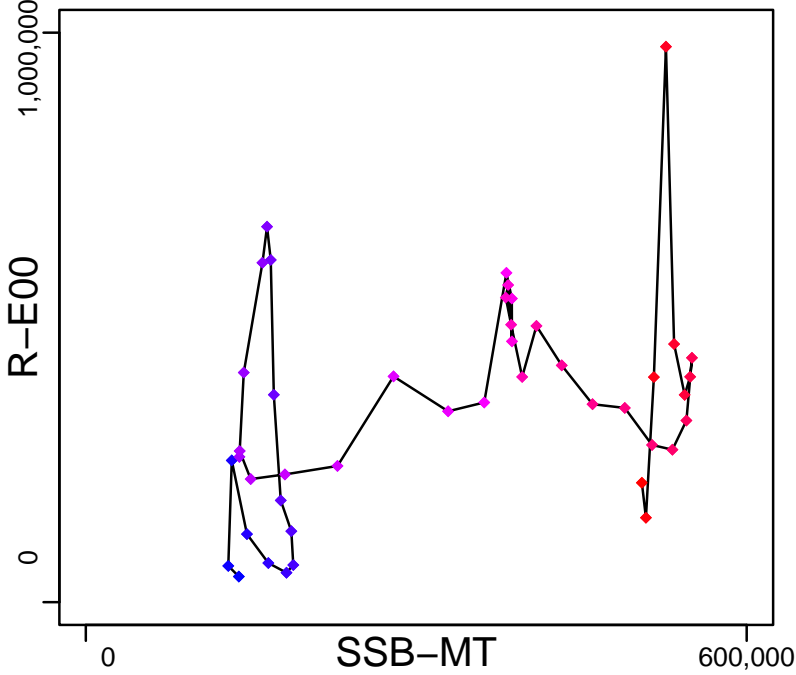
Kobe MSY_{pref} (1975–2020–SISIMP2022)



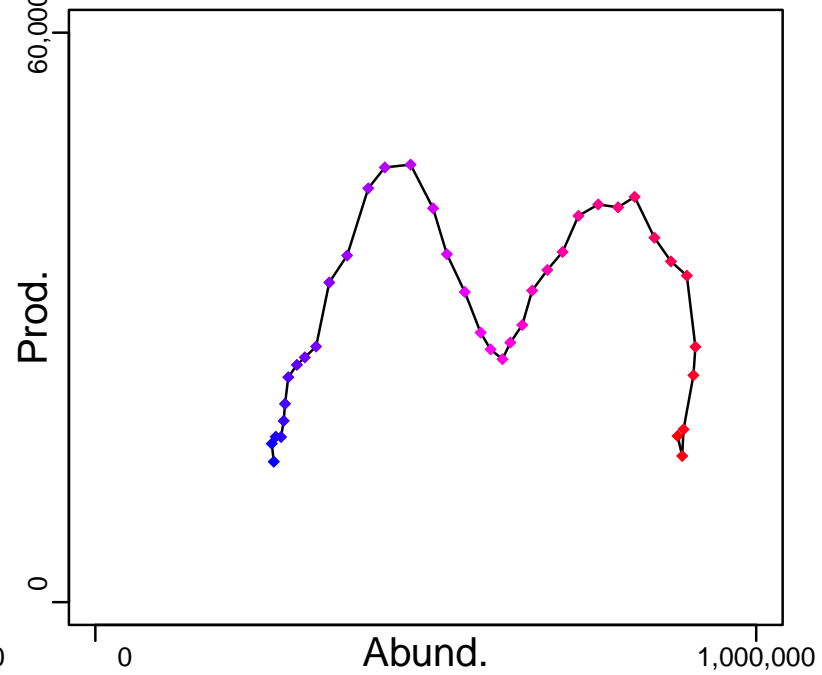
Kobe MGT_{pref} (1975–2020–SISIMP2022)



Spawner Recruit (1975–2020–SISIMP2022)



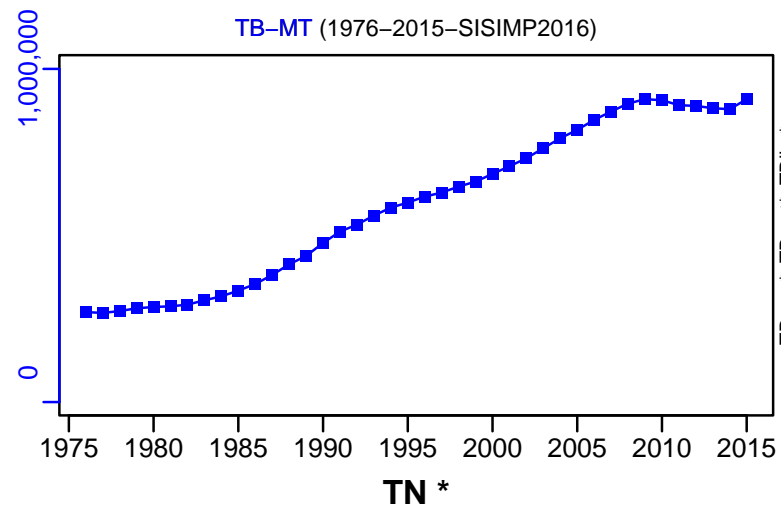
Production (1976–2015–SISIMP2016)



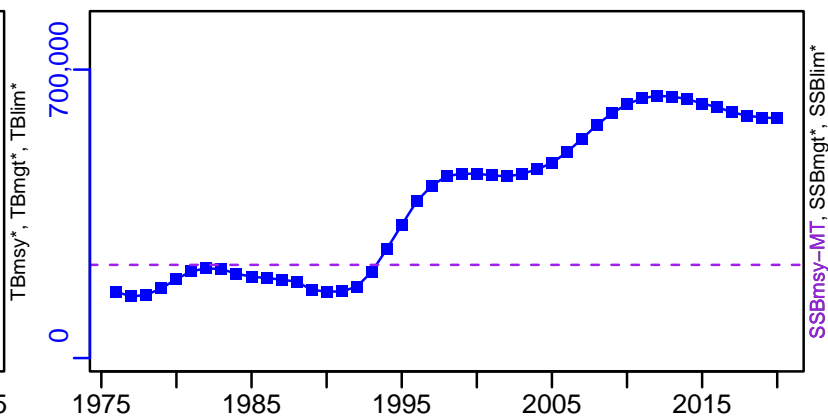
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

TB-MT (1976–2015–SISIMP2016)



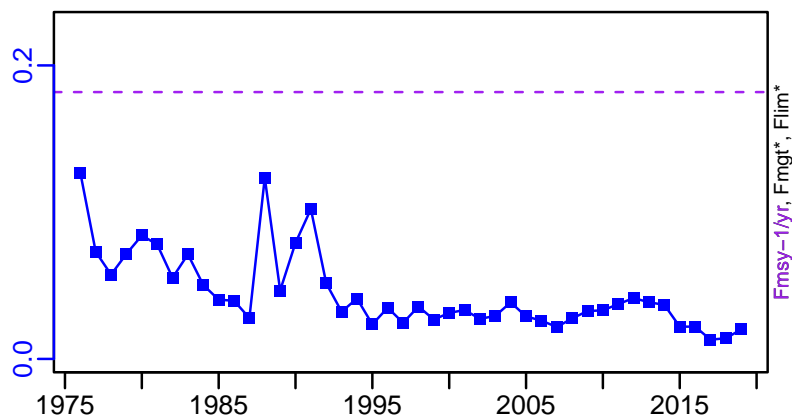
SSB-MT (1975–2020–SISIMP2022)



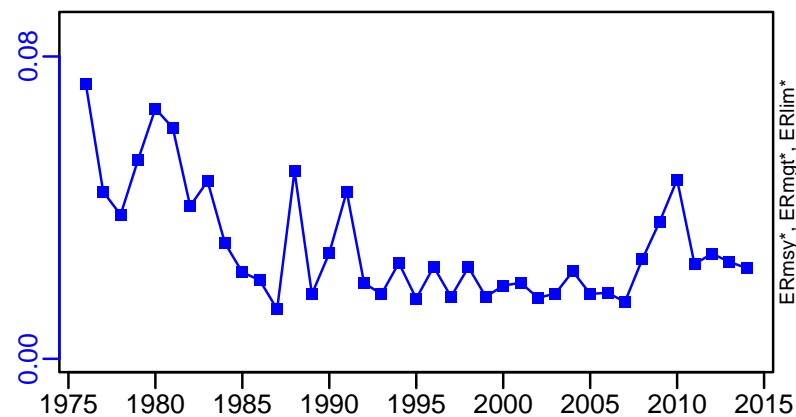
TN *



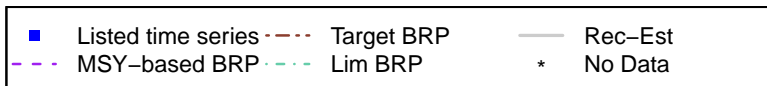
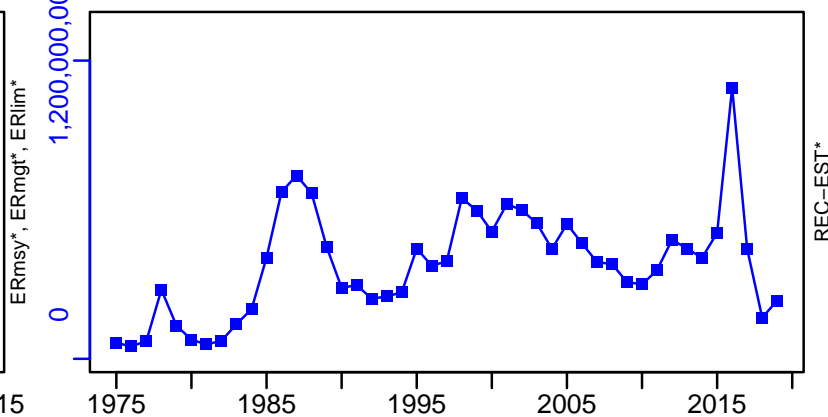
F-1/yr (1975–2020–SISIMP2022)



ER-calc-ratio (1976–2015–SISIMP2016)



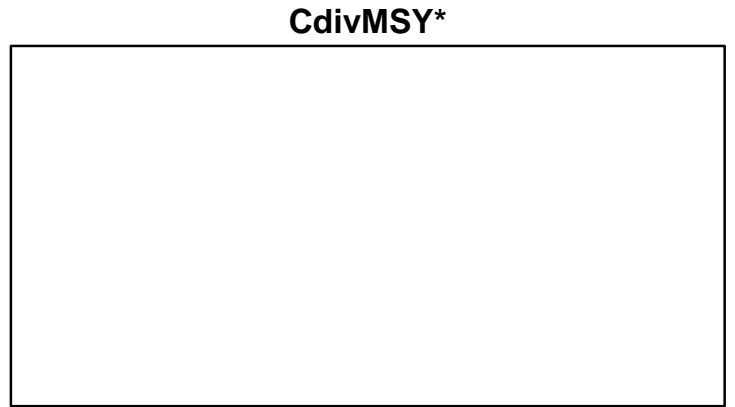
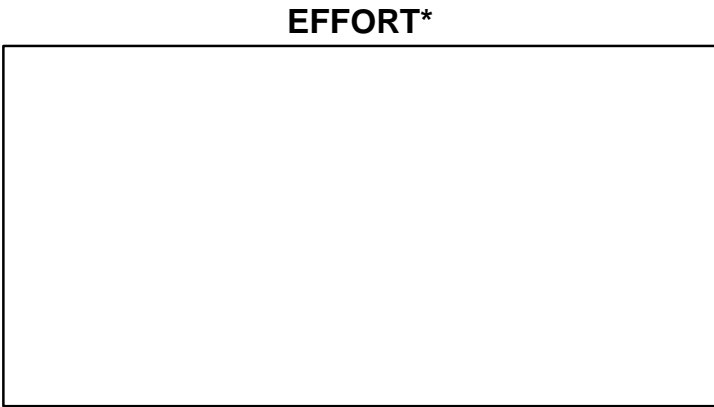
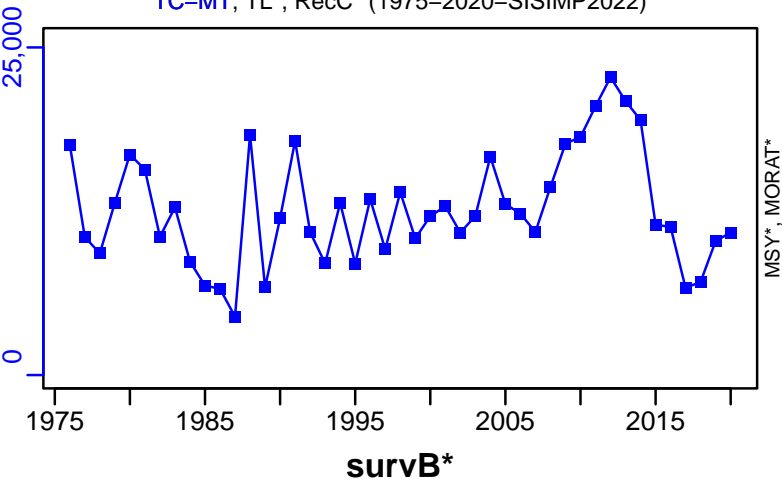
R-E00 (1975–2020–SISIMP2022)



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

TC-MT, TL*, RecC* (1975-2020-SISIMP2022)

TAC*, Cpair*, Cadv*



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

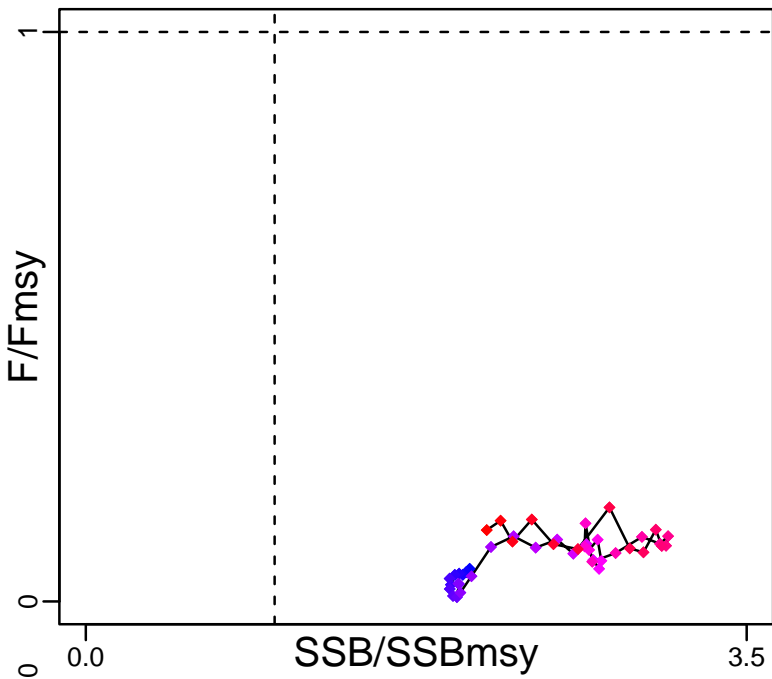
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Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDGA-1976-2021-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2015, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	356,544
Fmsy	Fmsy-1/yr	2021	0.225
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2019	0.21
ERlim	-	-	-

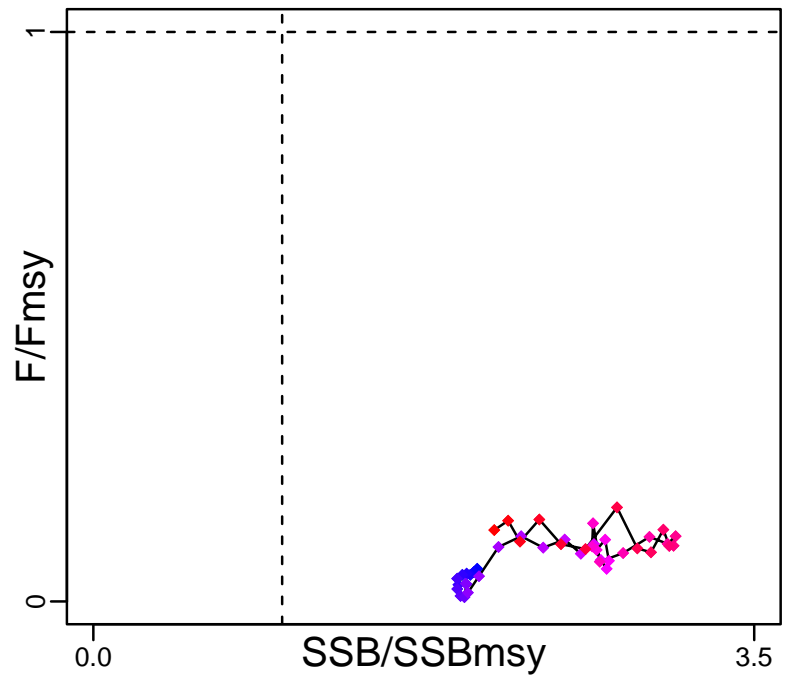
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,090,000	-	1+
SSB	SSB-MT	2021	730,753	Females	-
TN	-	-	-	-	-
R	R-E00	2021	4.36×10^8	-	1
F	F-1/yr	2021	0.028	-	-
ER	ER-calc-ratio	2015	0.018	-	-
TC	TC-MT	2021	21,122		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.05		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.125		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

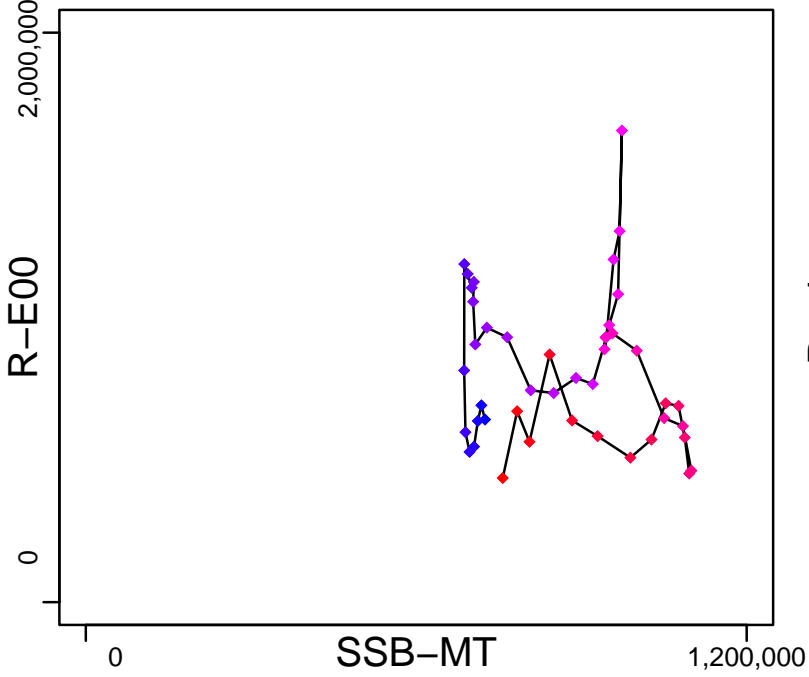
Kobe MSYpref (1976–2021–SISIMP2022)



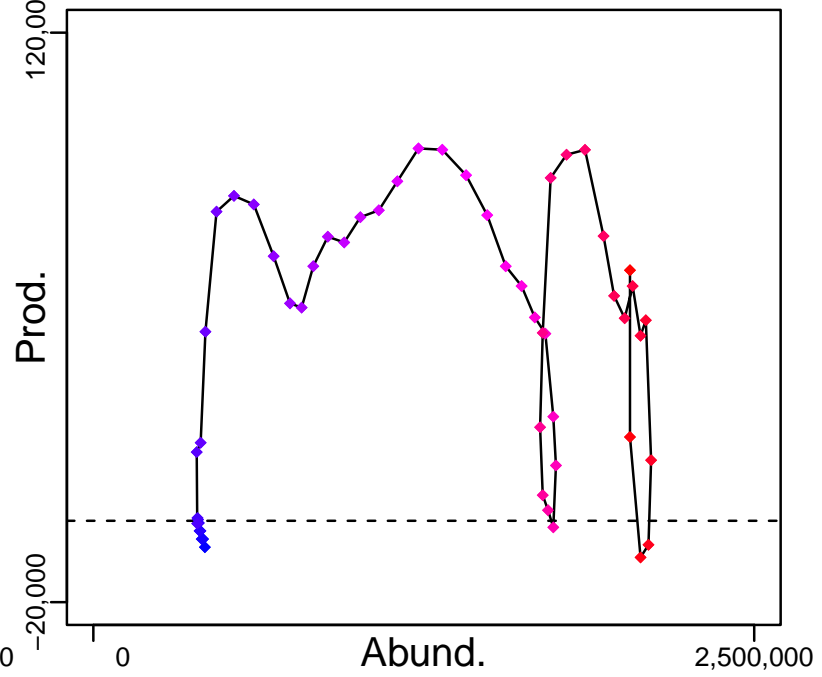
Kobe MGTpref (1976–2021–SISIMP2022)



Spawner Recruit (1976–2021–SISIMP2022)



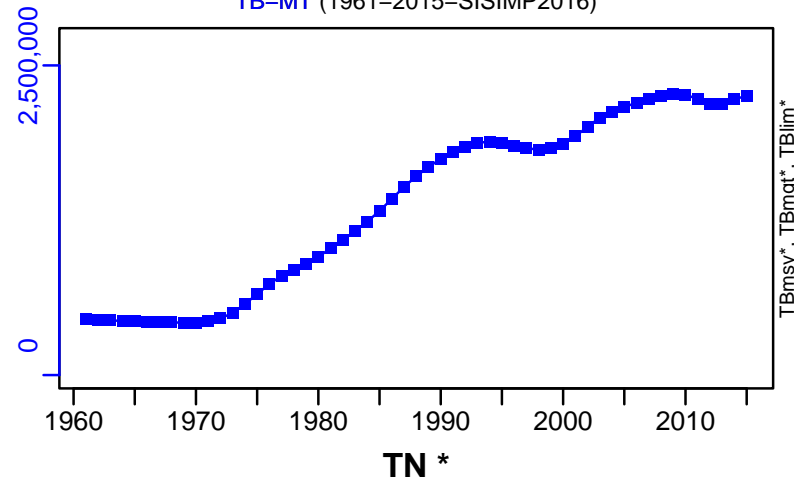
Production (1961–2015–SISIMP2016)



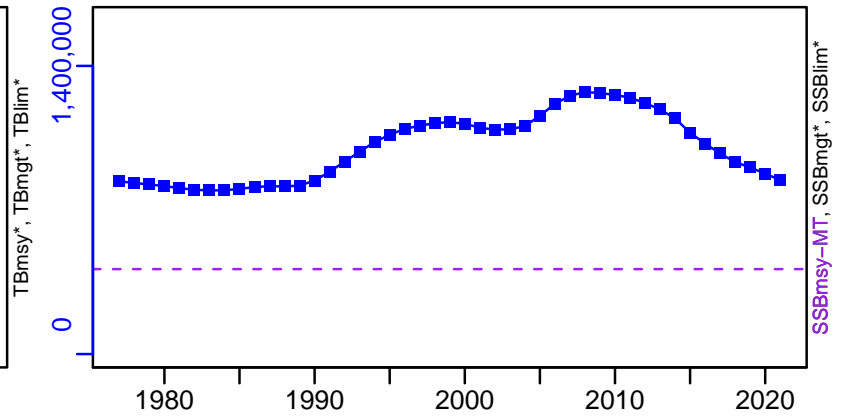
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

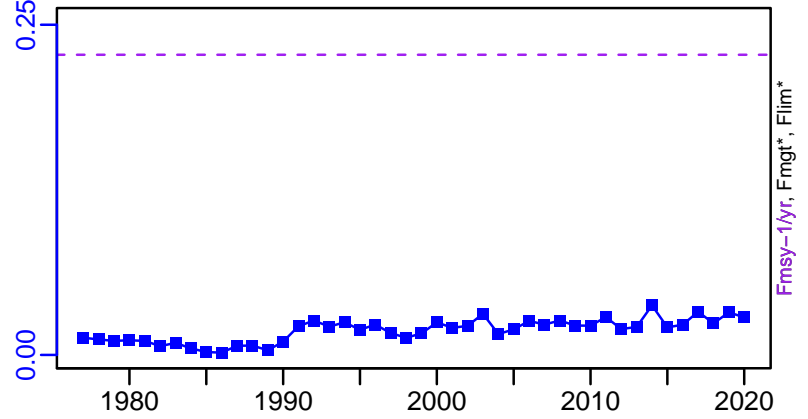
TB-MT (1961–2015–SISIMP2016)



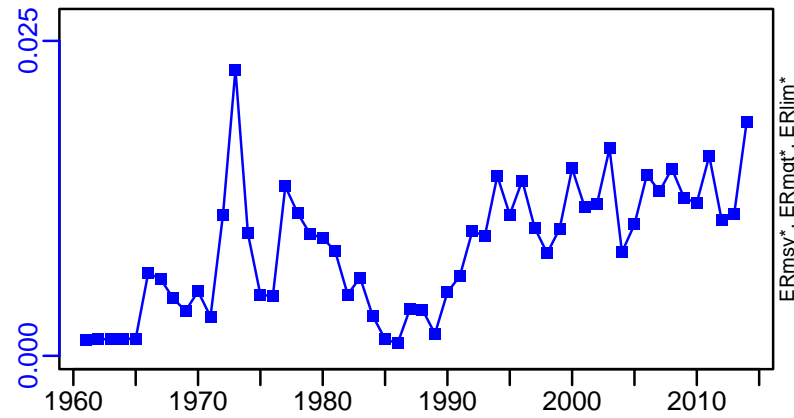
SSB-MT (1976–2021–SISIMP2022)



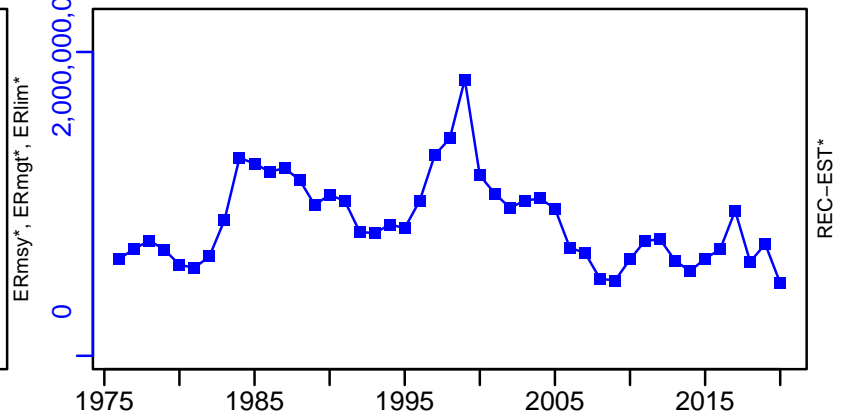
F-1/yr (1976–2021–SISIMP2022)



ER-calc-ratio (1961–2015–SISIMP2016)



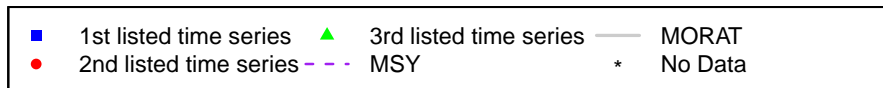
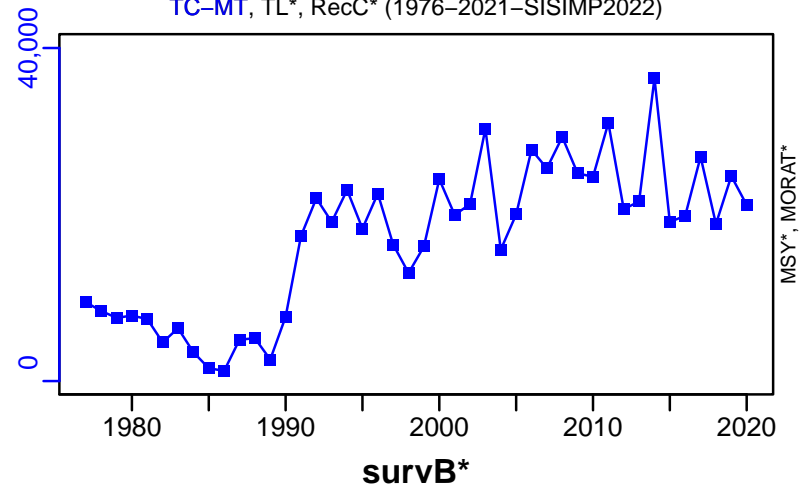
R-E00 (1976–2021–SISIMP2022)



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

TC-MT, TL*, RecC* (1976-2021-SISIMP2022)

TAC*, Cpair*, Cadv*



Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

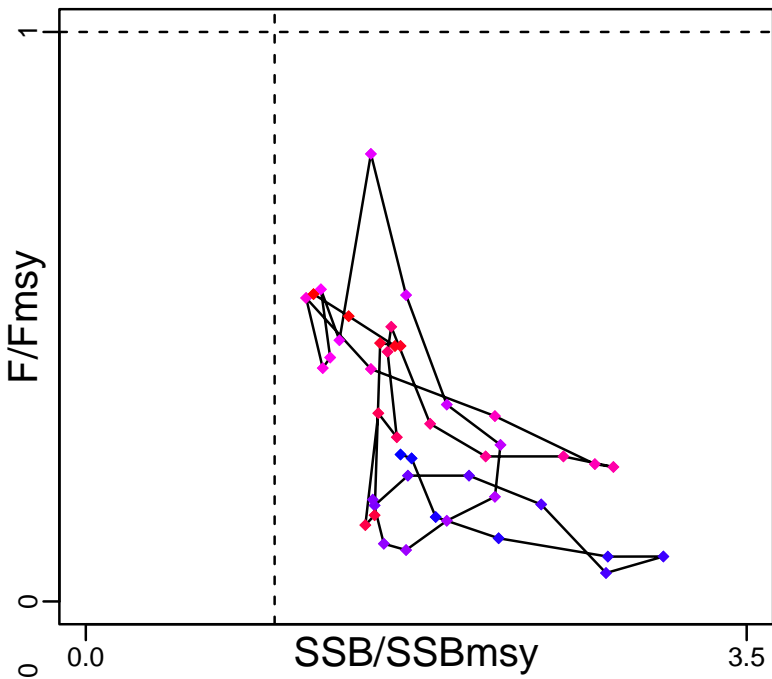
Metadata	
Scientific Name	Pleurogrammus monopterygius
Current Assess ID	AFSC-ATKABSAI-1977-2020-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2016, 2017, 2018, 2015, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	102,000
Fmsy	Fmsy-1/yr	2020	0.593
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.464
ERlim	-	-	-

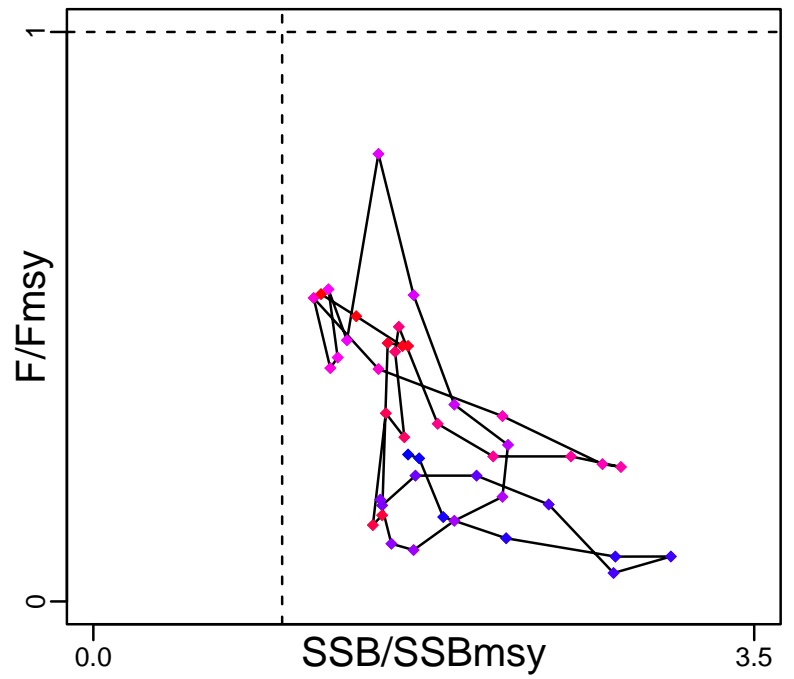
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	589,000	-	1+
SSB	SSB-MT	2020	114,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	4.47×10^8	-	1
F	F-1/yr	2020	0.32	-	-
ER	ER-calc-ratio	2015	0.053	-	-
TC	TC-MT	2020	57,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.118		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.54		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

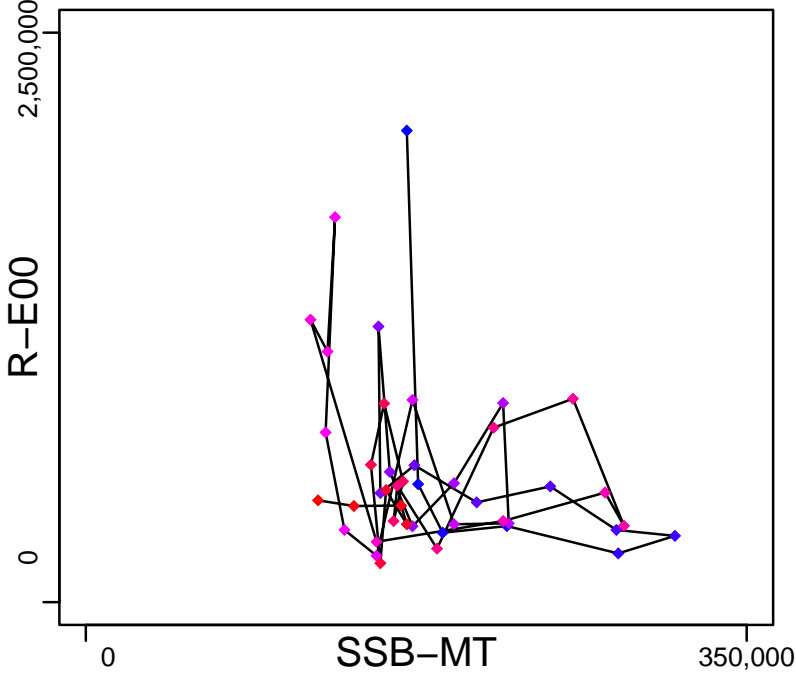
Kobe MSYpref (1977–2020–SISIMP2021–2)



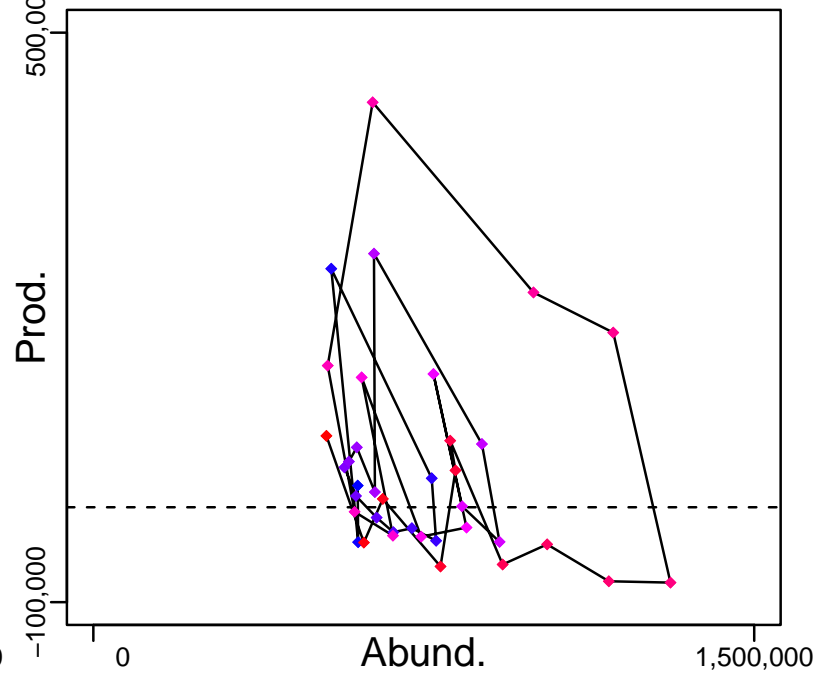
Kobe MGTpref (1977–2020–SISIMP2021–2)



Spawner Recruit (1977–2020–SISIMP2021–2)

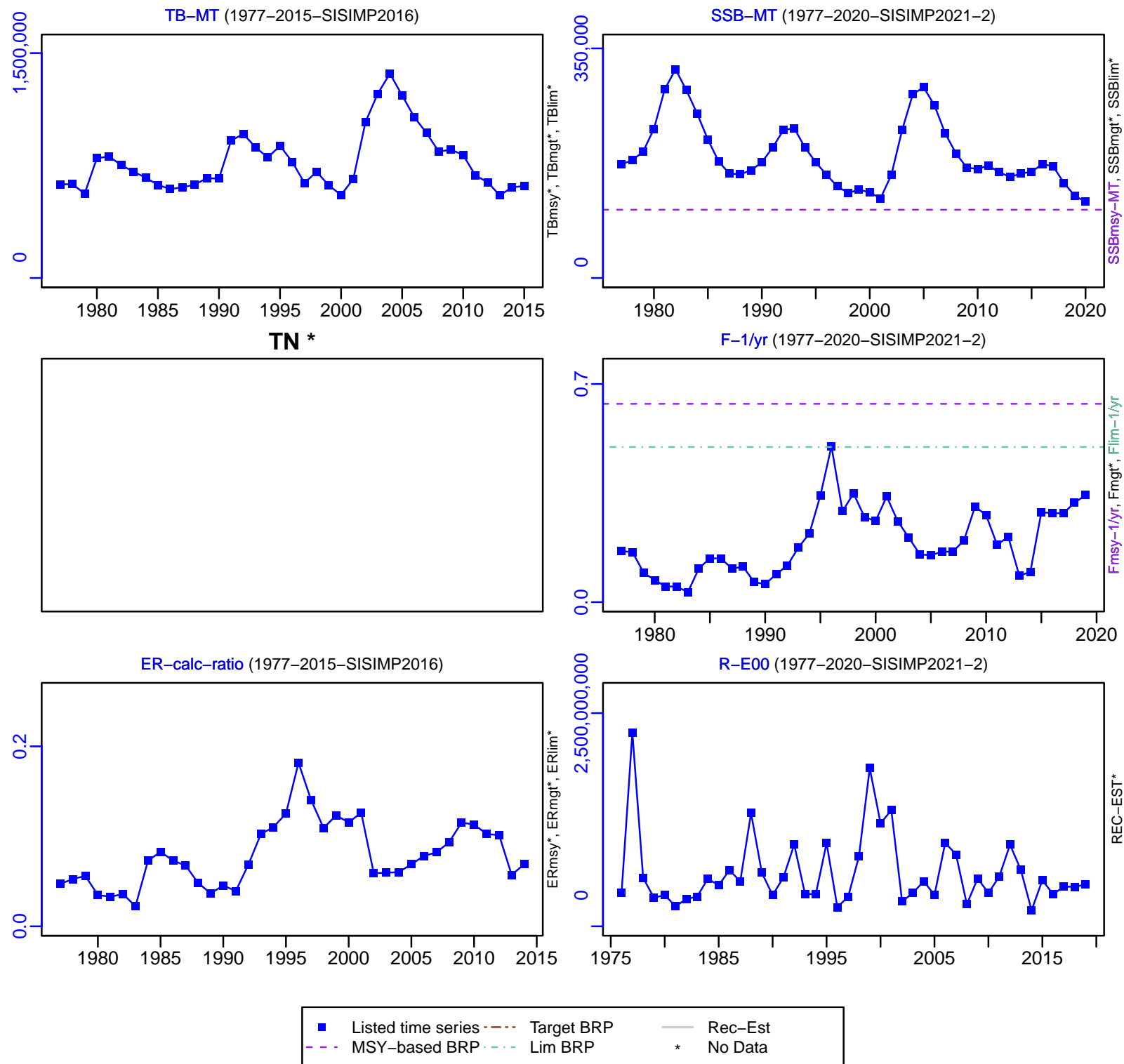


Production (1977–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

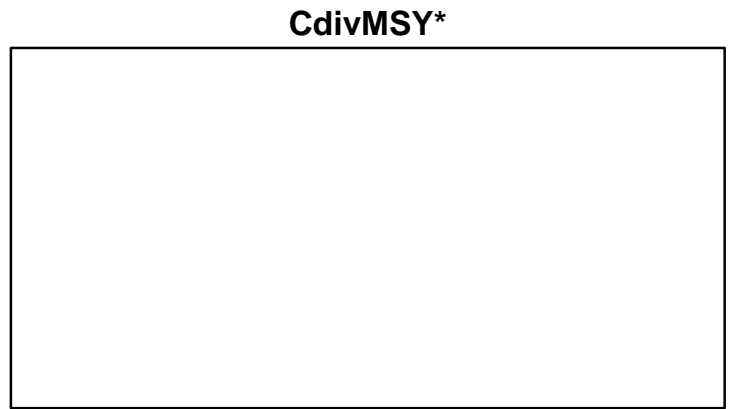
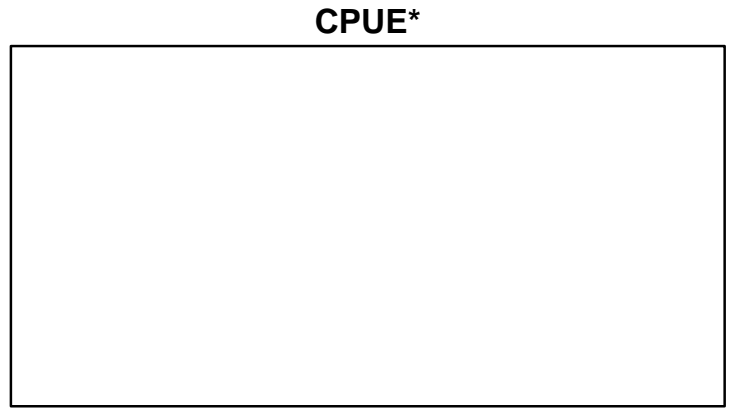
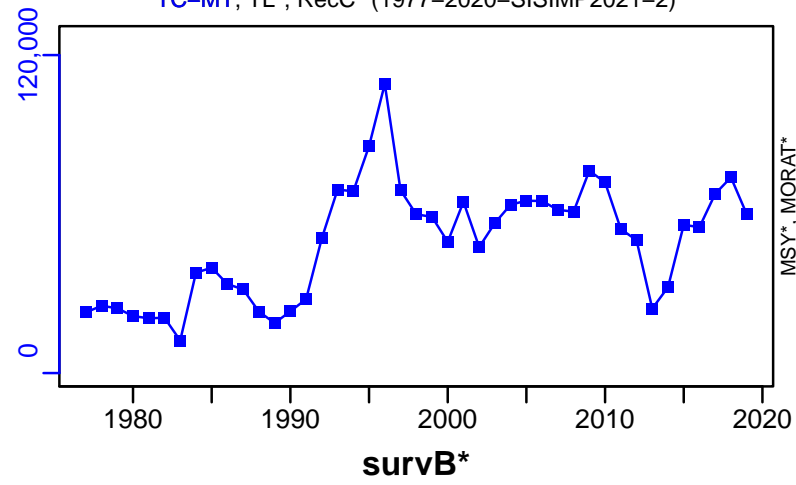
Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]



Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

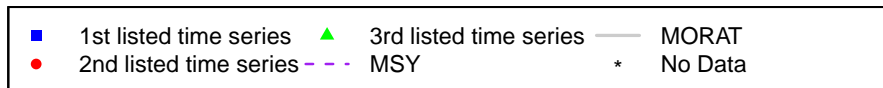
TC-MT, TL*, RecC* (1977-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



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*

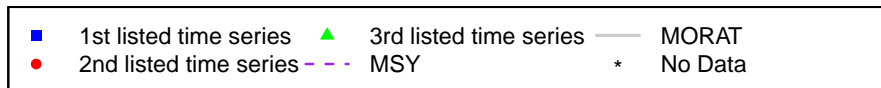
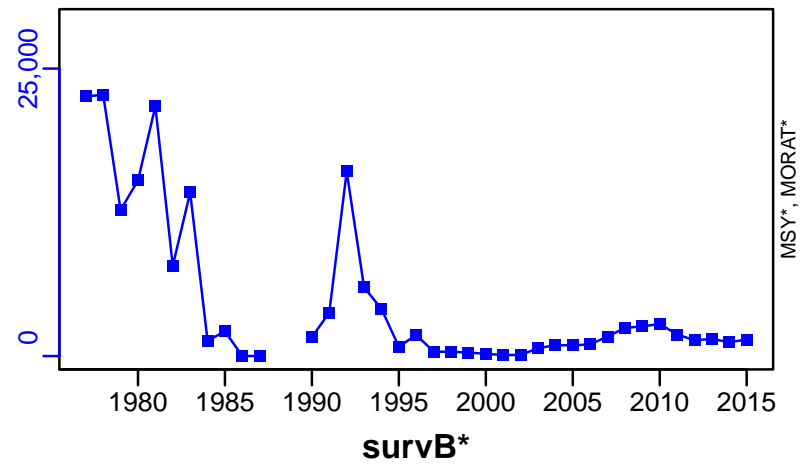


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

Atka mackerel Gulf of Alaska [ATKAGA]

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

TAC*, Cpair*, Cadv*

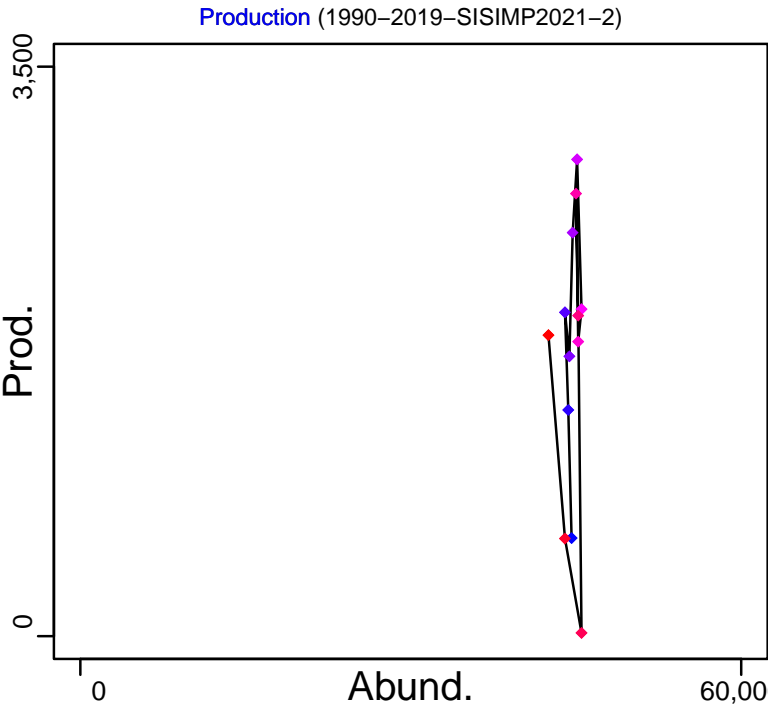
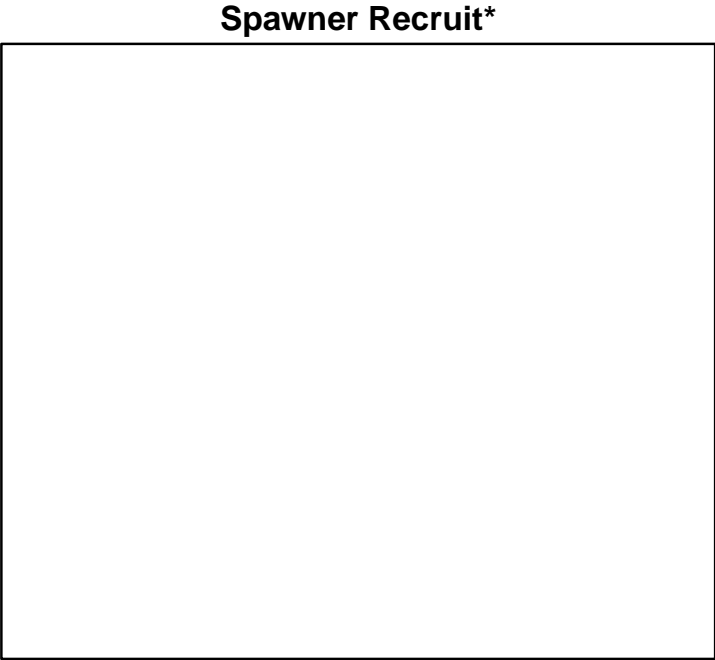
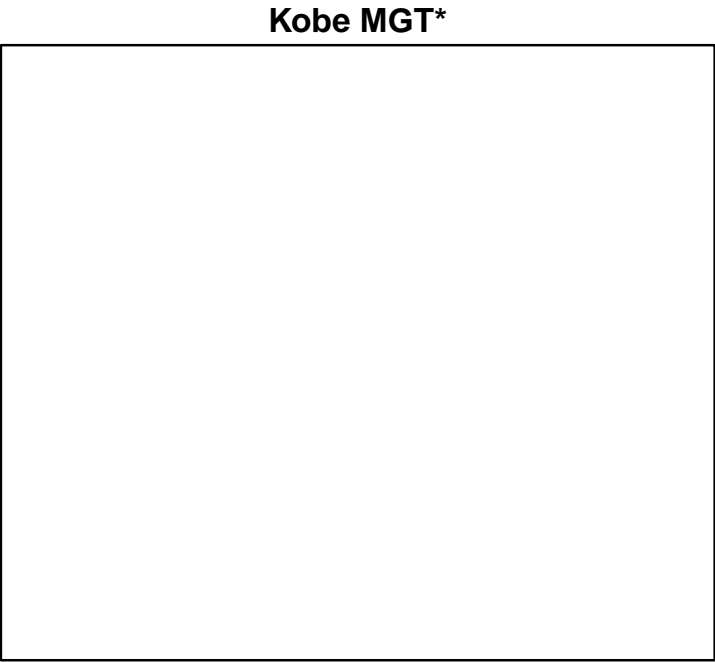
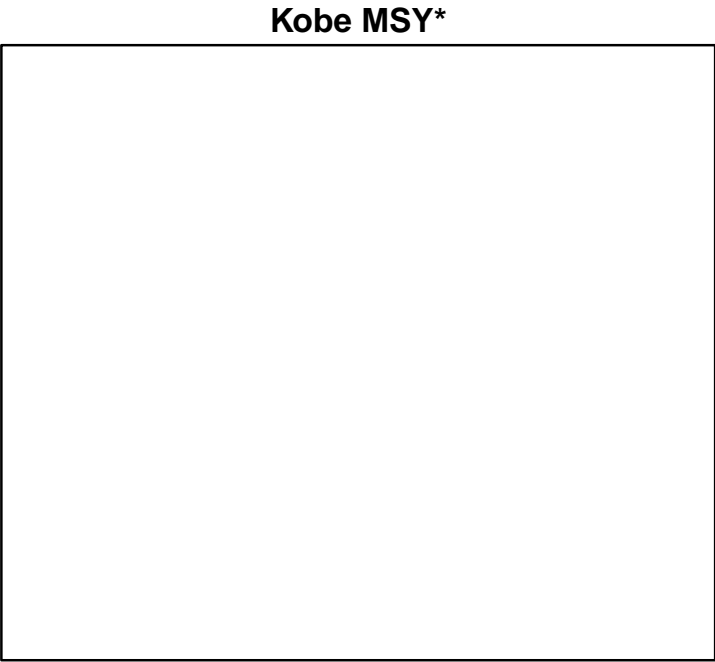


Big skate Gulf of Alaska [BIGSKAGA]

Metadata	
Scientific Name	Raja binoculata
Current Assess ID	AFSC-BIGSKAGA-1990-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	0.1
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	0.1

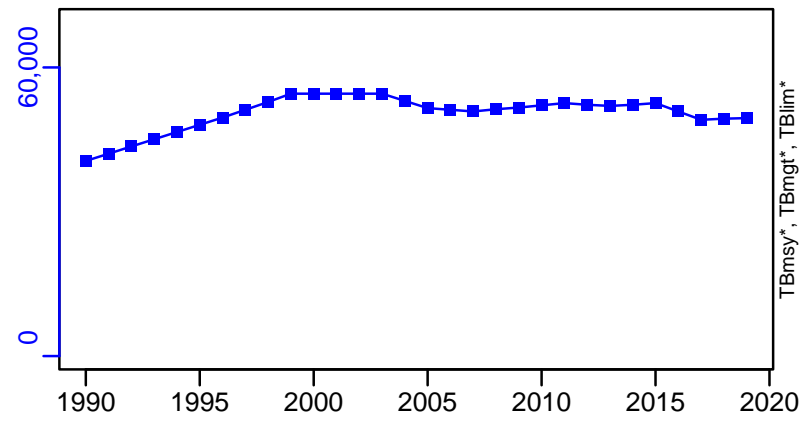
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	42,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.03	-	-
TC	TC-MT	2019	1370		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.3		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



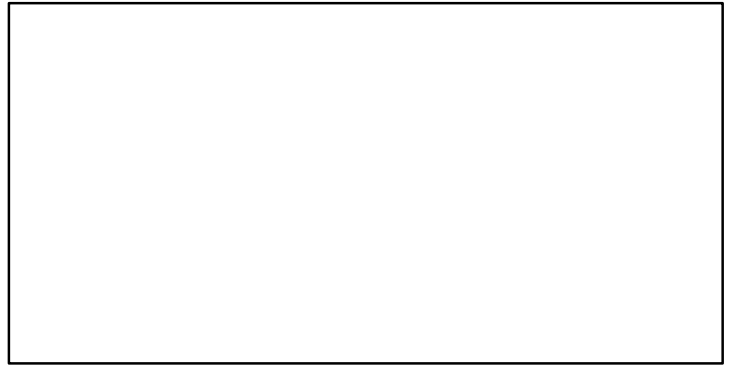
◆ Start Year ◆ End Year * No Data

Big skate Gulf of Alaska [BIGSKAGA]

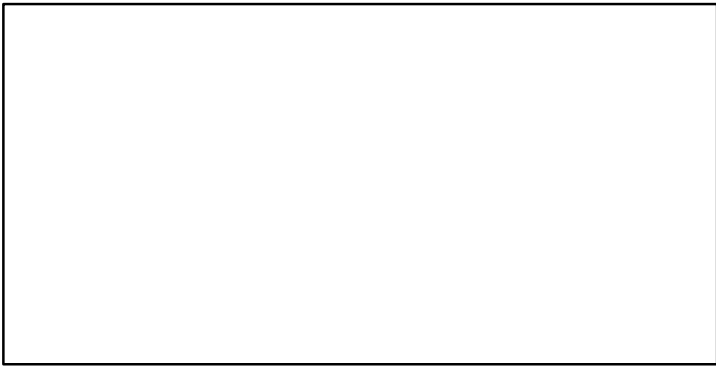
TB-MT (1990-2019-SISIMP2021-2)



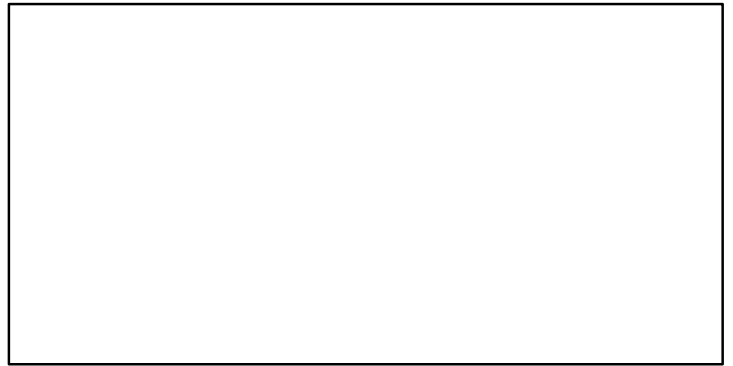
SSB*



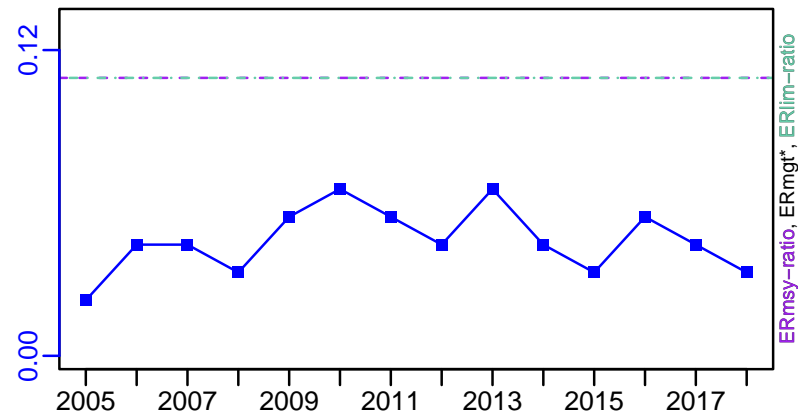
TN *



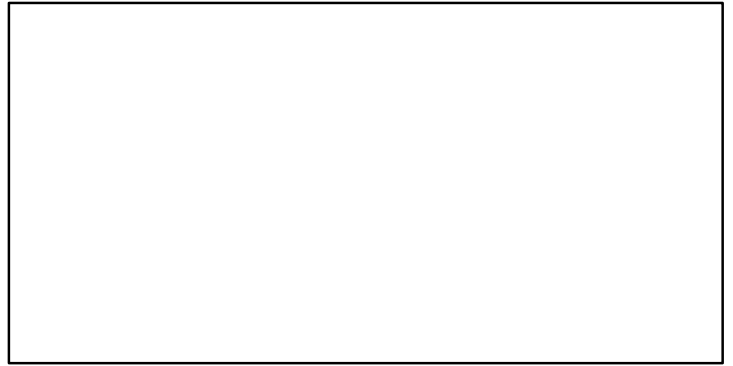
F*



ER-ratio (1990-2019-SISIMP2021-2)



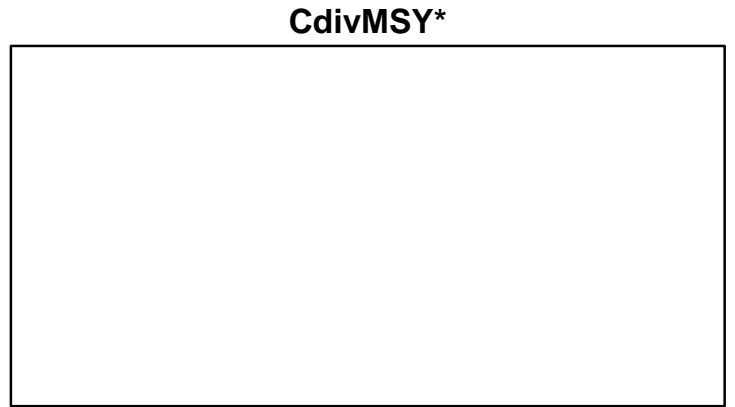
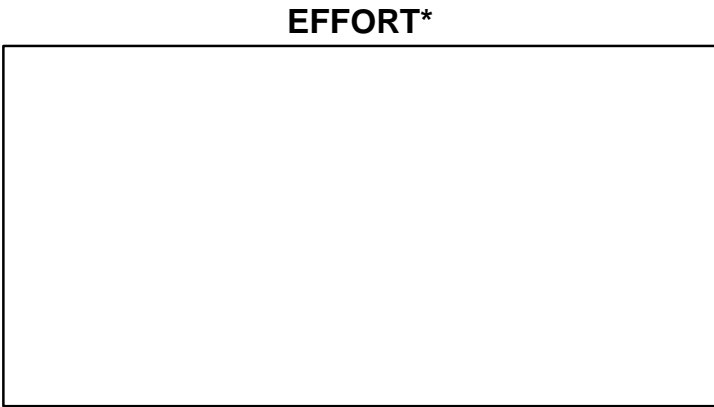
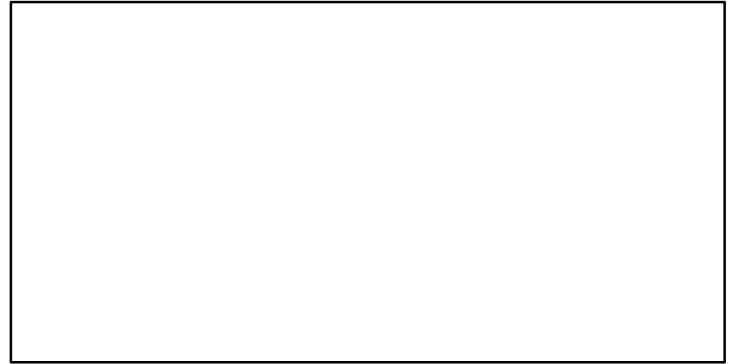
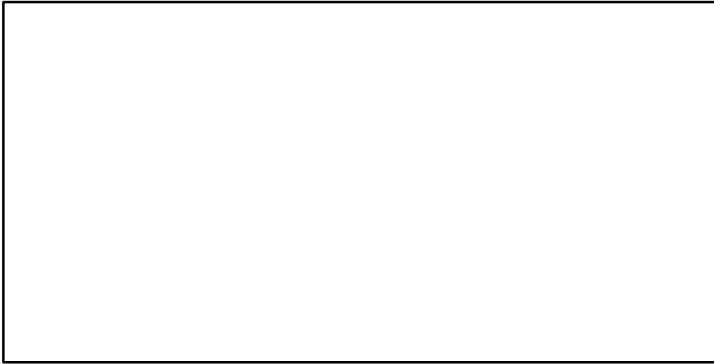
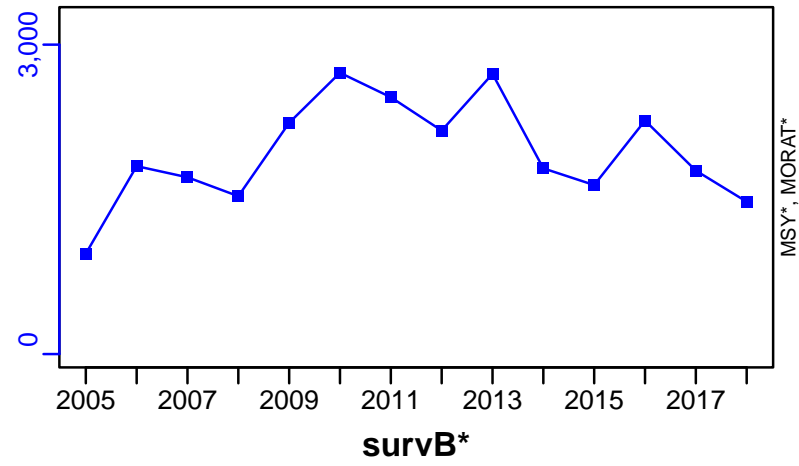
Recruits*



Big skate Gulf of Alaska [BIGSKAGA]

TC-MT, TL*, RecC* (1990-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Blue king crab Pribilof Islands [BKINGCRABPI]

Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABPI-1974-2021-SISIMP2021-2
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2019, 2021, 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	2021	0		
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*



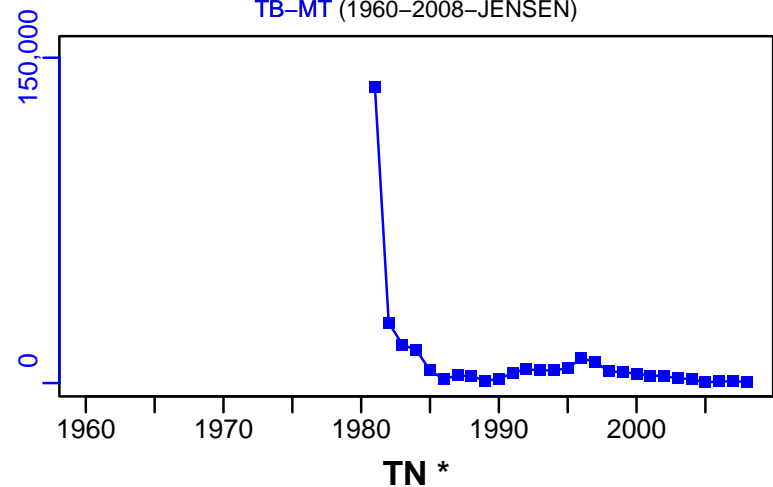
Production*



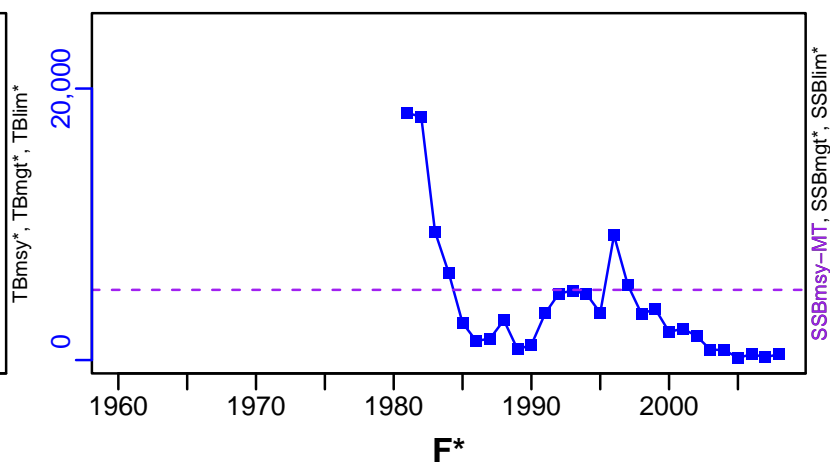
◆ Start Year ◆ End Year * No Data

Blue king crab Pribilof Islands [BKINGCRABPI]

TB-MT (1960-2008-JENSEN)



SSB-MT (1960-2008-JENSEN)



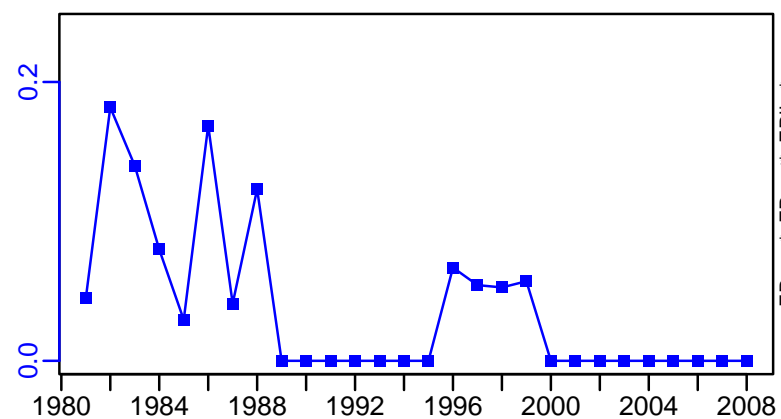
TN *



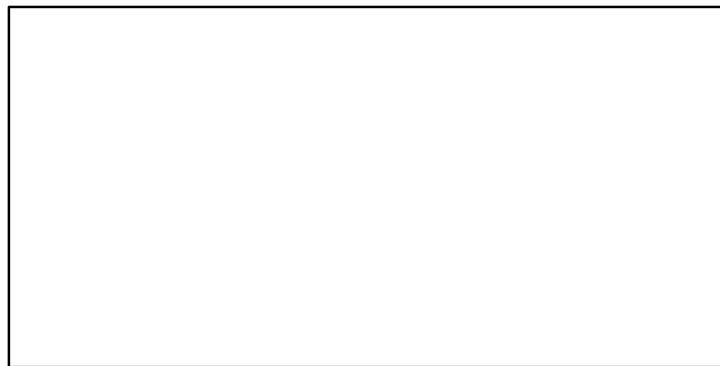
F*



ER-ratio (1960-2008-JENSEN)

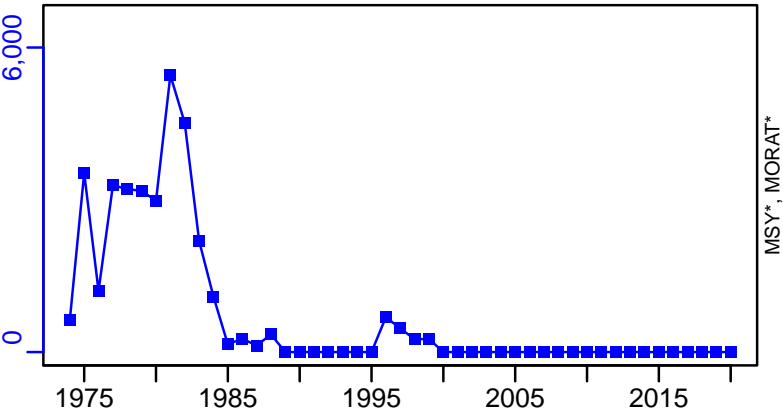


Recruits*



Blue king crab Pribilof Islands [BKINGCRABPI]

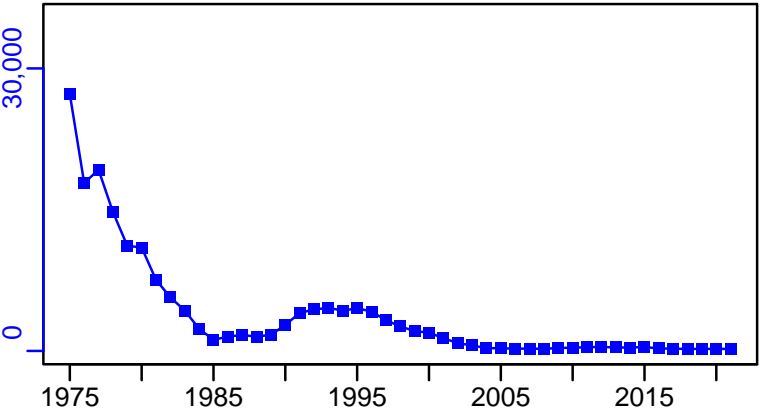
TC-MT, TL*, RecC* (1974-2021-SISIMP2021-2)



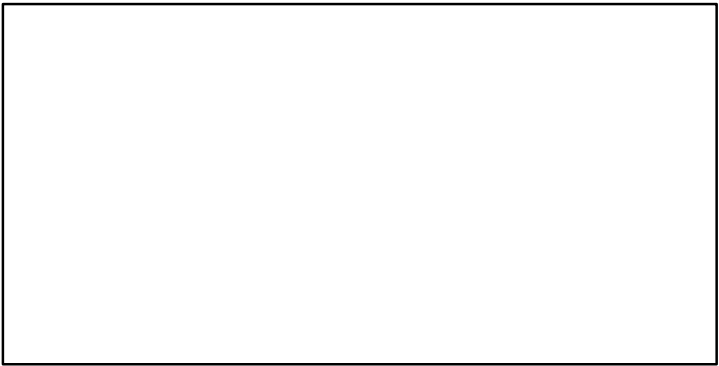
TAC*, Cpair*, Cadv*



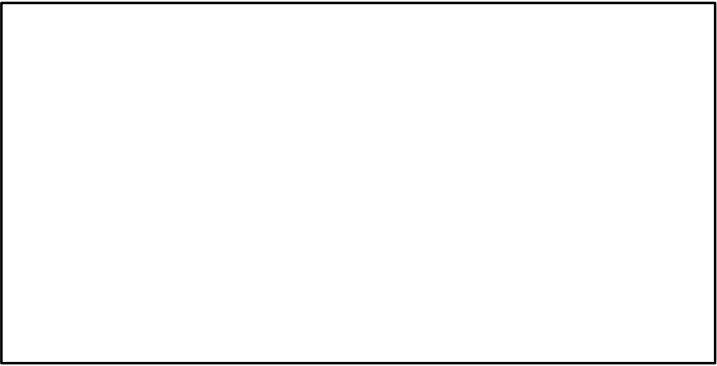
survB-MT (1974-2021-SISIMP2021-2)



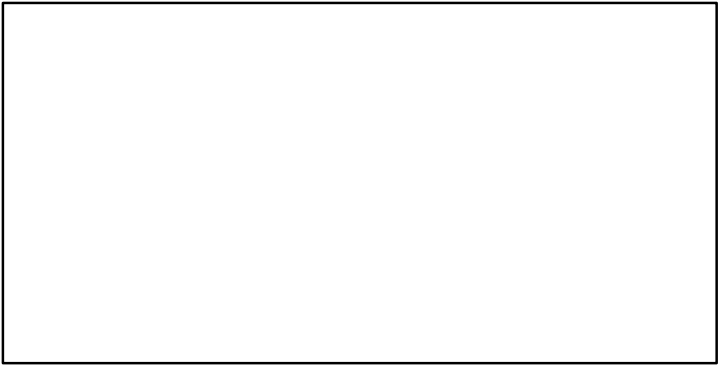
CPUE*



EFFORT*



CdivMSY*

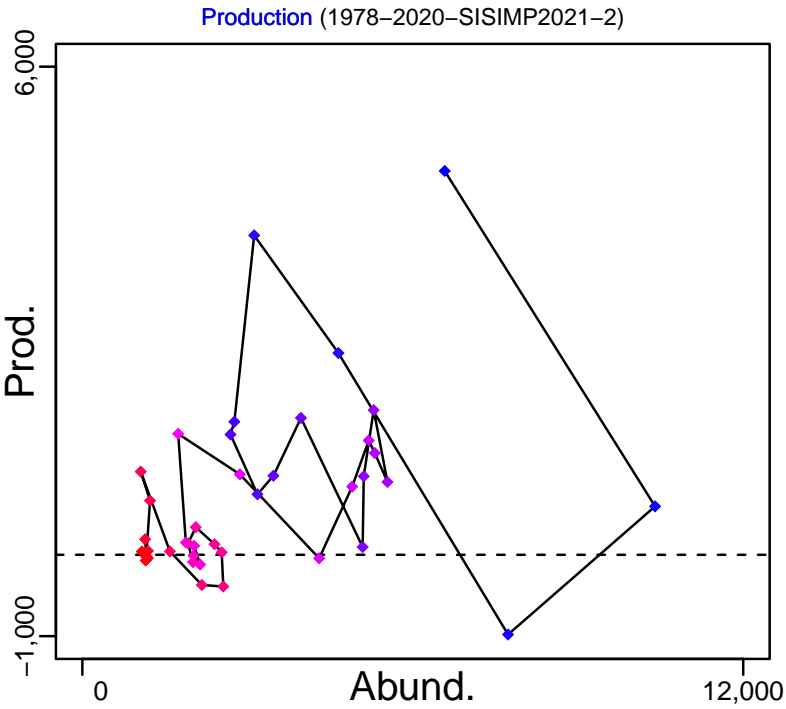
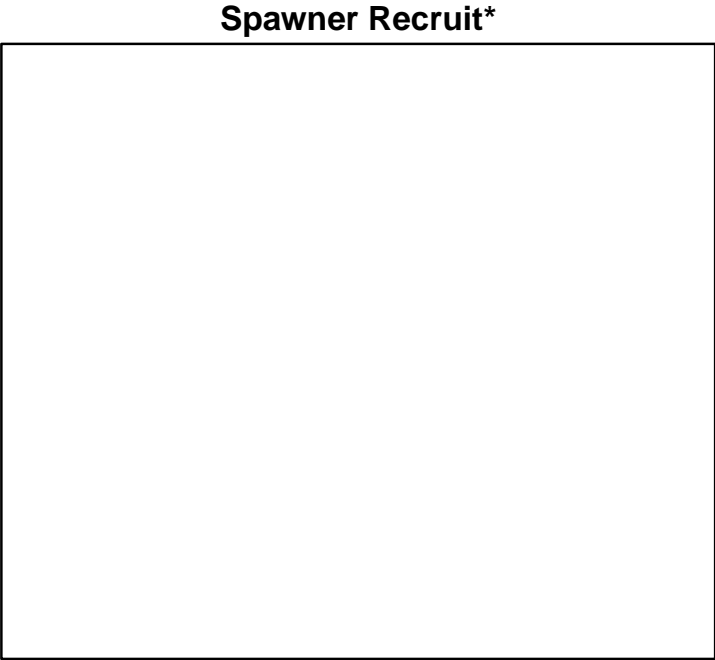
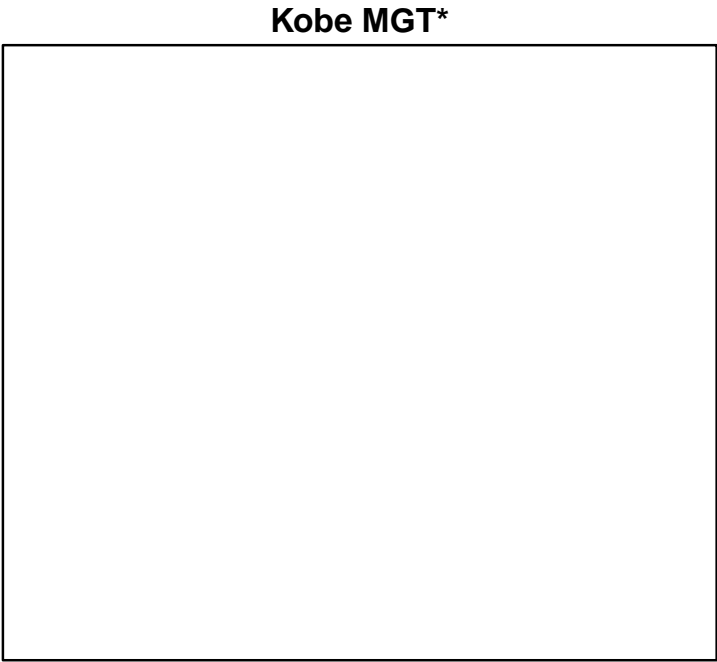
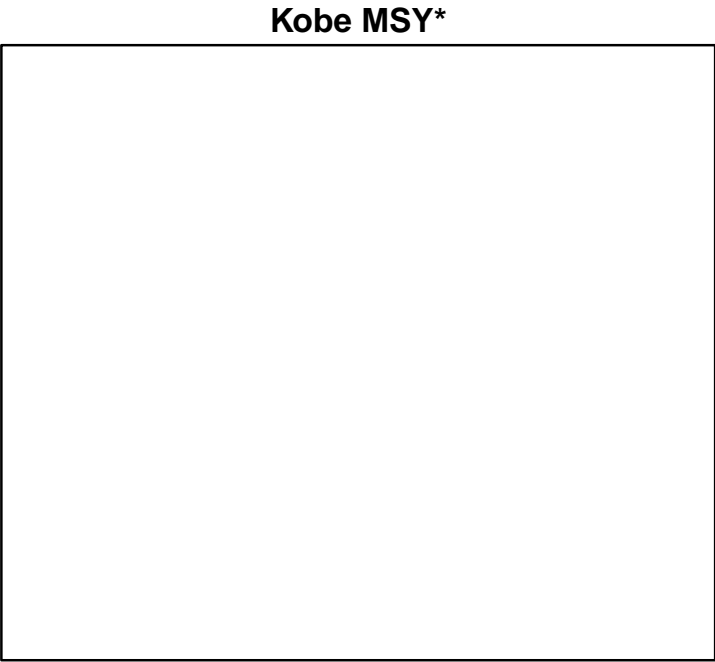


Blue king crab Saint Matthews Island [BKINGCRABSMI]

Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABSMI-1978-2020-SISIMP2021-2
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, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	3340
SSBmsy	SSBmsy-MT	2008	3351
Fmsy	Fmsy-pr-1/yr	2008	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2020	1670
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

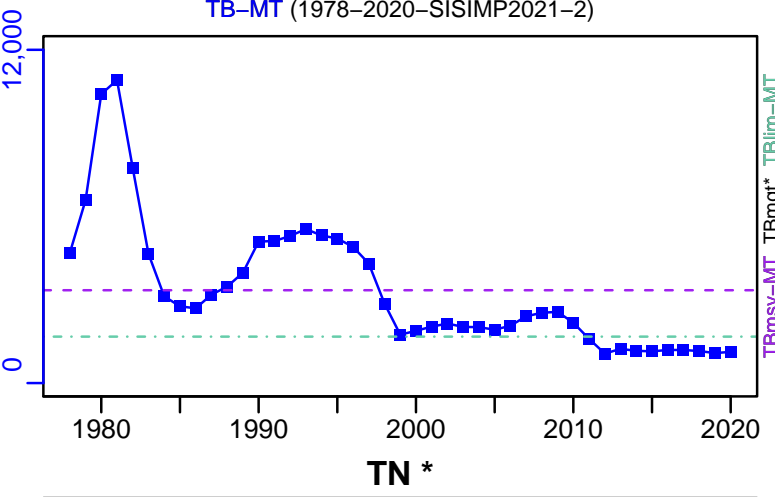
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	1120	-	-
SSB	SSB-MT	2018	1309	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2020	0	-	-
TC	TC-MT	2020	0		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2020	0.335		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.453		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



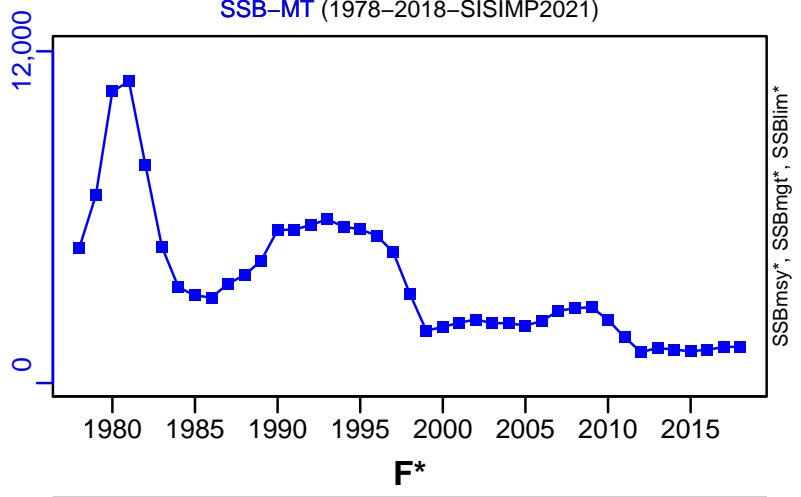
◆ Start Year ◆ End Year * No Data

Blue king crab Saint Matthews Island [BKINGCRABSMI]

TB-MT (1978-2020-SISIMP2021-2)



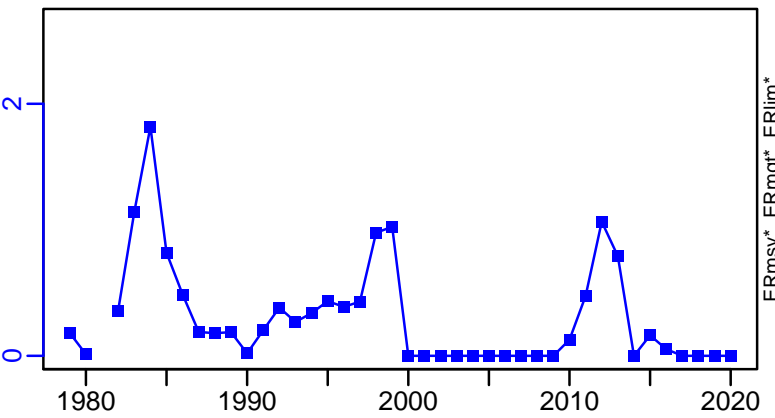
SSB-MT (1978-2018-SISIMP2021)



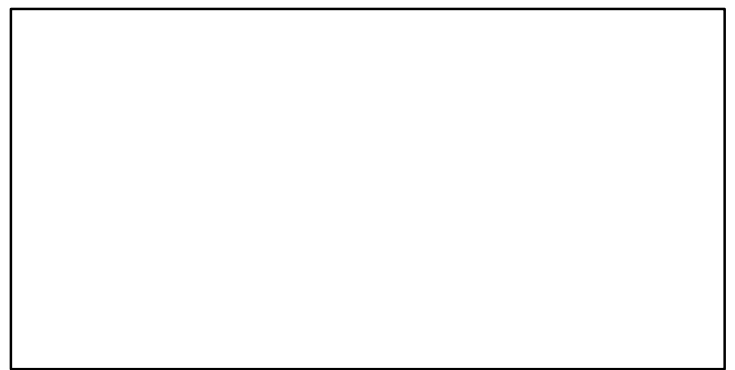
TN *

F*

ER-calc-ratio (1978-2020-SISIMP2021-2)

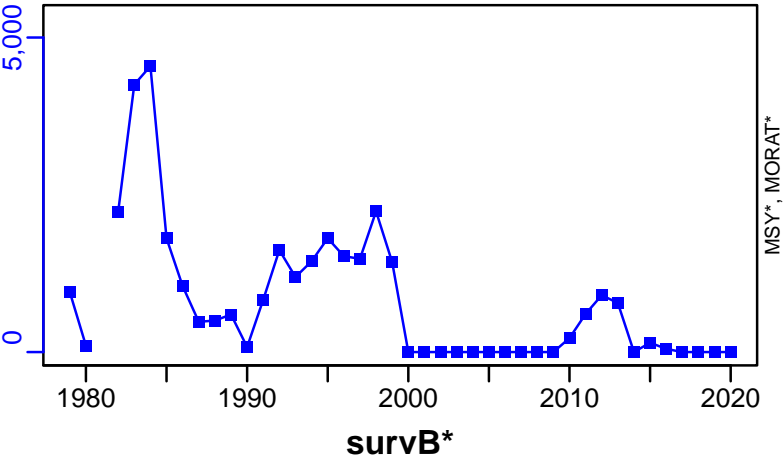


Recruits*



Blue king crab Saint Matthews Island [BKINGCRABSMI]

TC-MT, TL*, RecC* (1978-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Dover sole Gulf of Alaska [DSOLEGA]

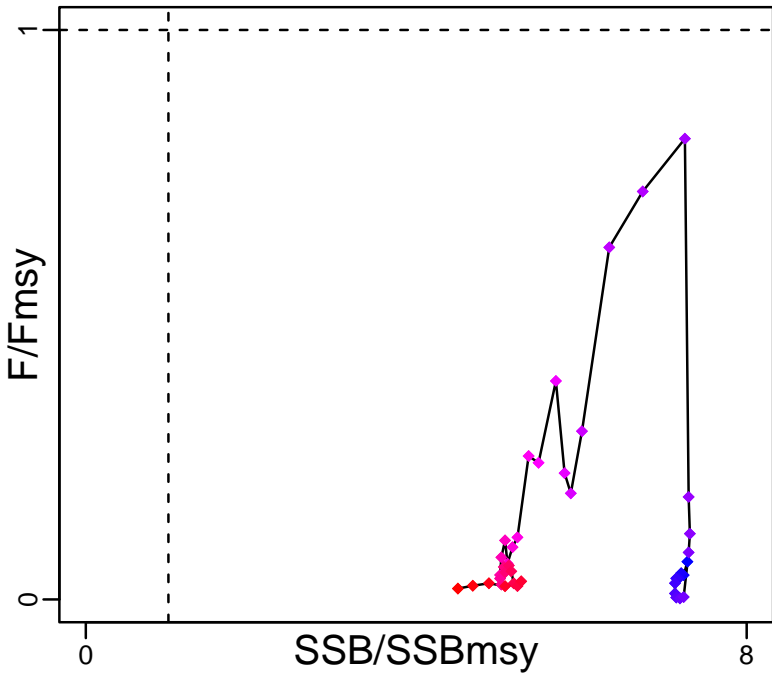
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	AFSC-DSOLEGA-1978-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009, 2015, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	6660
Fmsy	Fmsy-1/yr	2019	0.11
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2009	0.085
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2019	0.177
ERlim	-	-	-

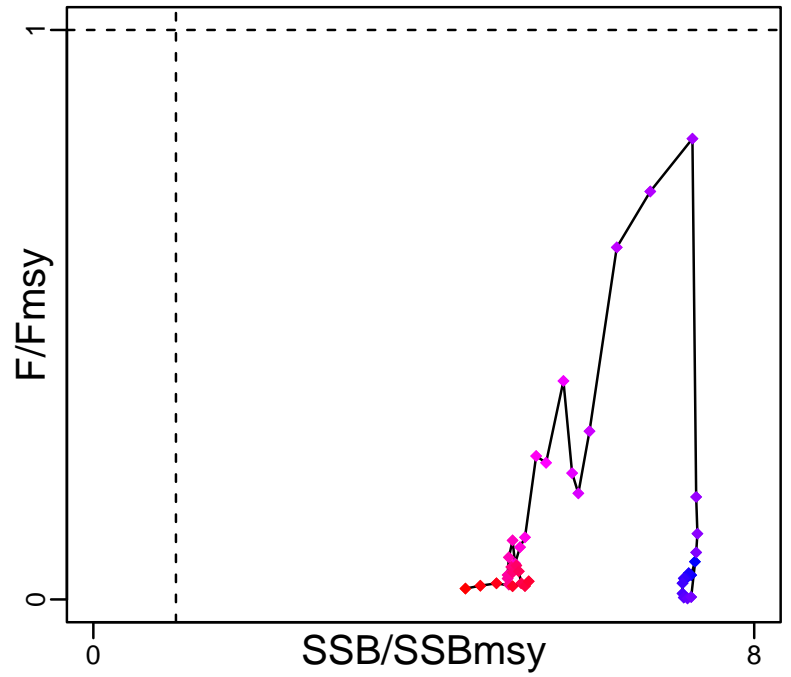
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	141,000	-	0+
SSB	SSB-MT	2019	28,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	11,600,000	-	0
F	F-1/yr	2019	0.002	-	-
ER	ER-calc-ratio	2015	0.003	-	-
TC	TC-MT	2019	144		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	4.339		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.019		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dover sole Gulf of Alaska [DSOLEGA]

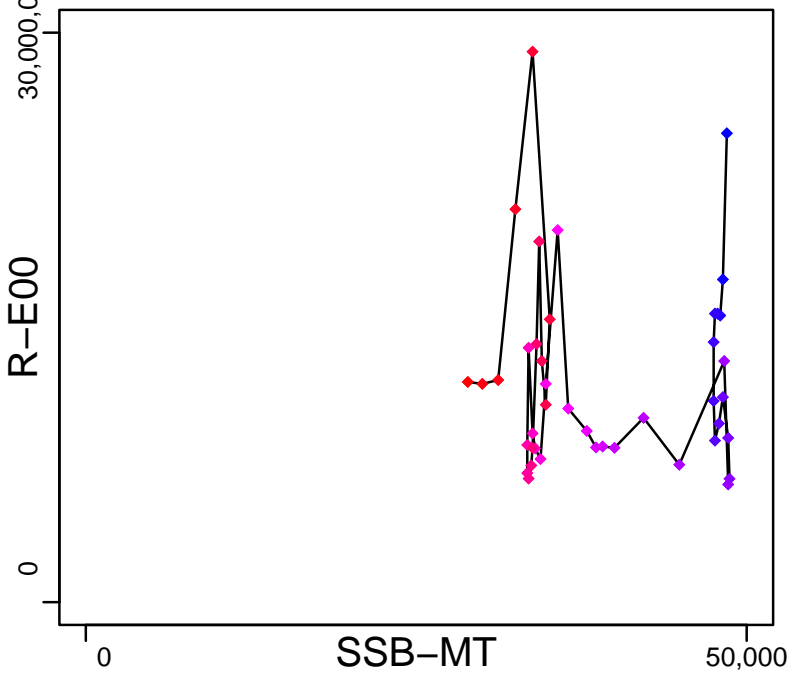
Kobe MSYpref (1978–2019–SISIMP2021–2)



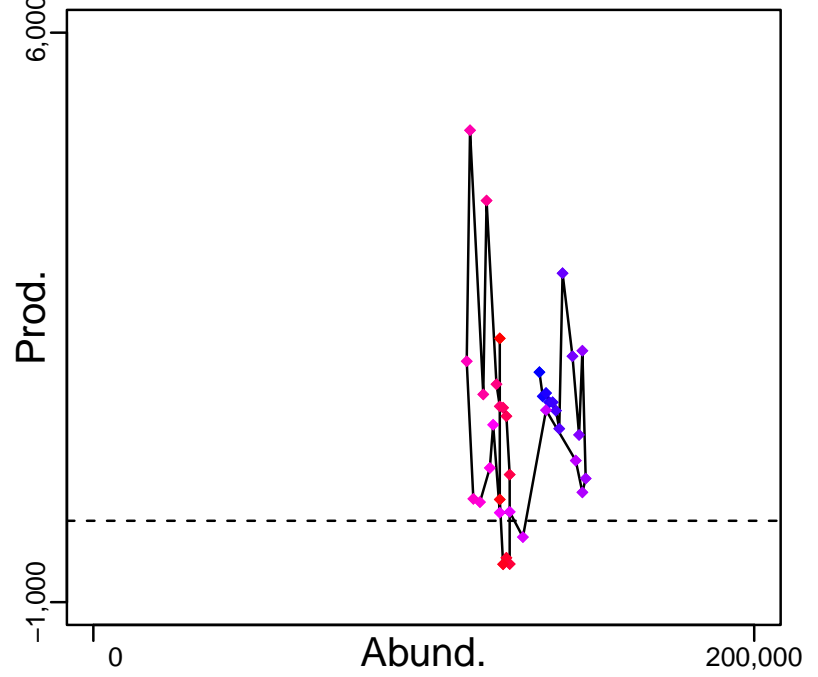
Kobe MGTpref (1978–2019–SISIMP2021–2)



Spawner Recruit (1978–2019–SISIMP2021–2)



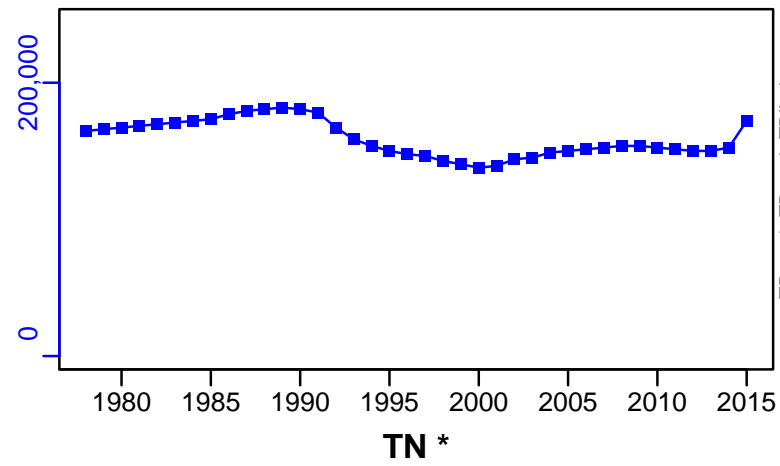
Production (1978–2015–SISIMP2016)



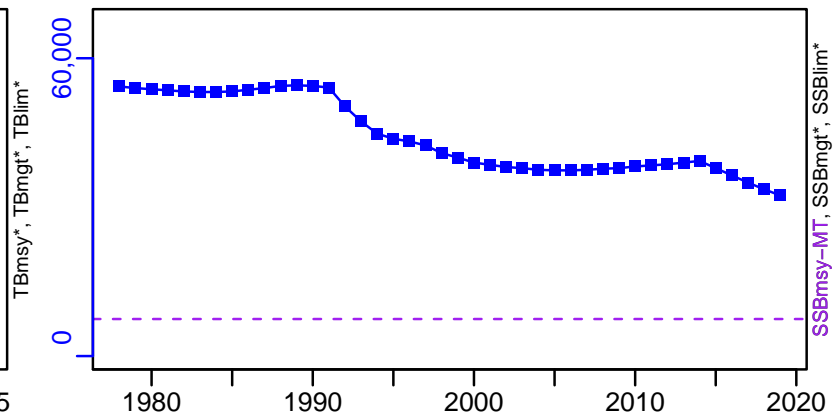
◆ Start Year ◆ End Year * No Data

Dover sole Gulf of Alaska [DSOLEGA]

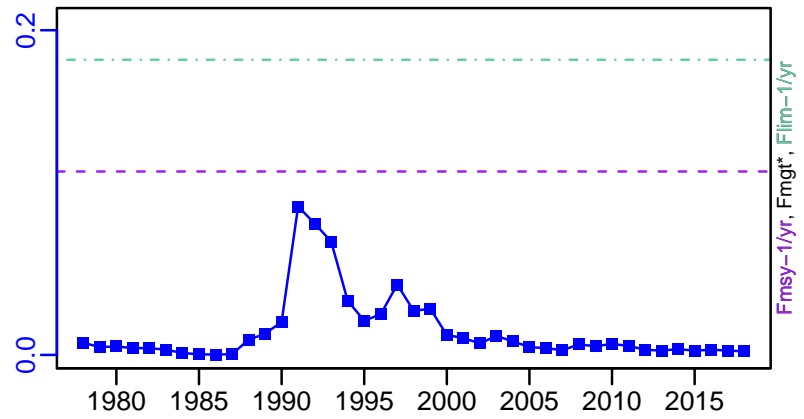
TB-MT (1978–2015–SISIMP2016)



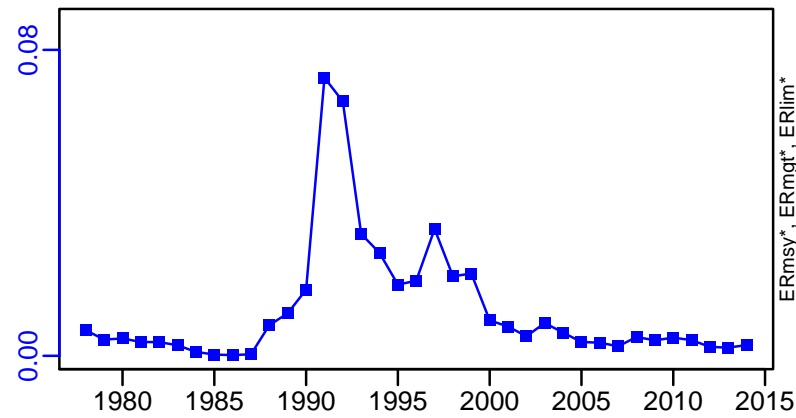
SSB-MT (1978–2019–SISIMP2021–2)



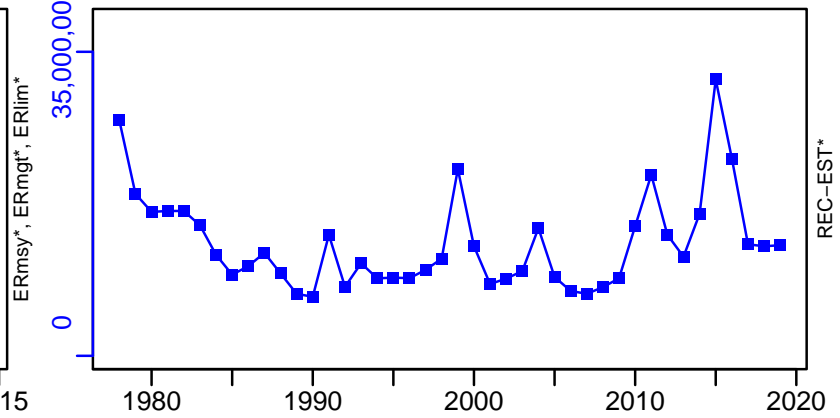
F-1/yr (1978–2019–SISIMP2021–2)



ER-calc-ratio (1978–2015–SISIMP2016)



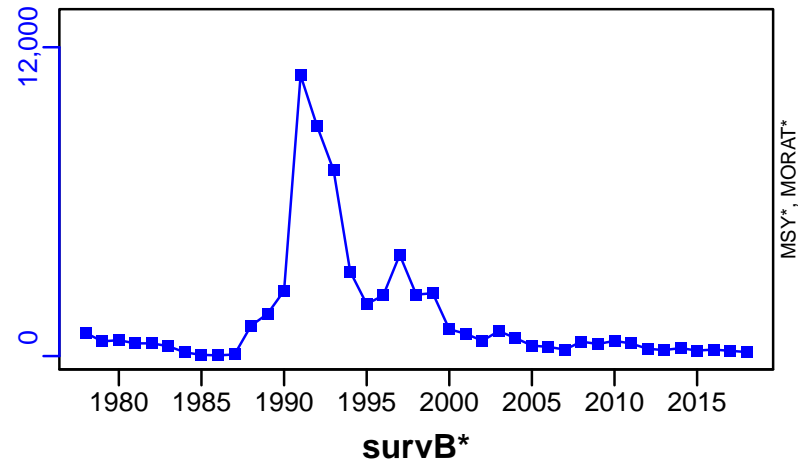
R-E00 (1978–2019–SISIMP2021–2)



Dover sole Gulf of Alaska [DSOLEGA]

TC-MT, TL*, RecC* (1978-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Dusky rockfish Gulf of Alaska [DUSROCKGA]

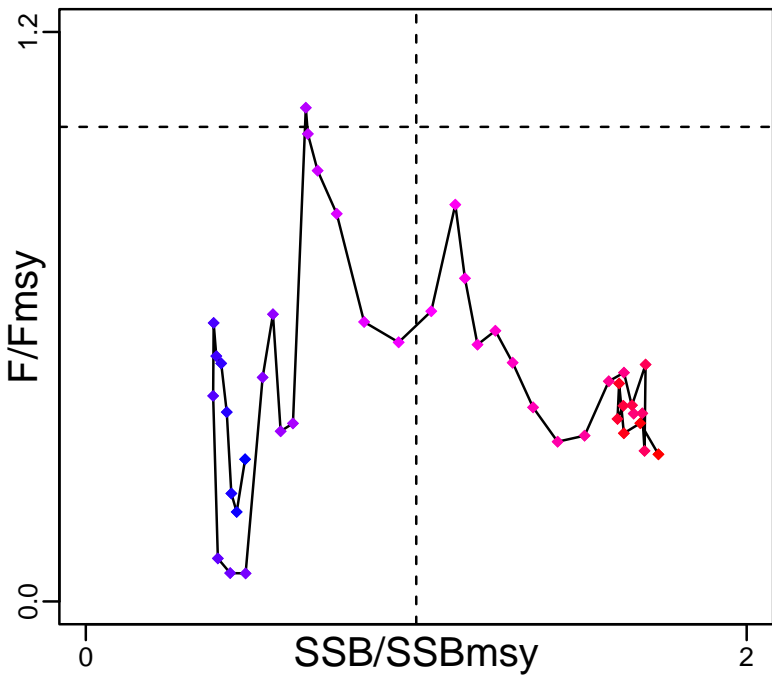
Metadata	
Scientific Name	Sebastes variabilis
Current Assess ID	AFSC-DUSROCKGA-1973-2020-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2018, 2020, 2015, 2018, 2020

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

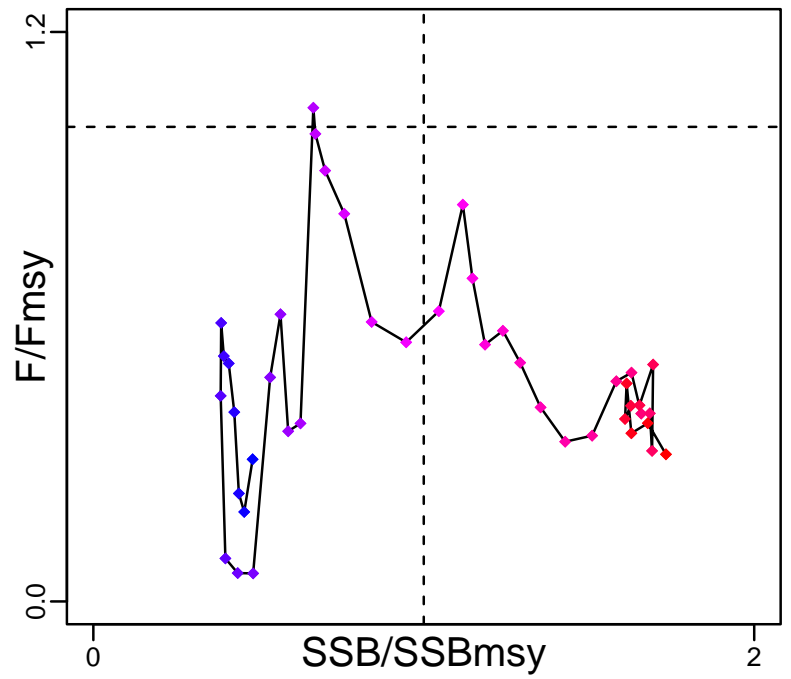
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	63,100	-	4+
SSB	SSB-MT	2020	38,202	Females	-
TN	-	-	-	-	-
R	R-E00	2020	2,220,000	-	4
F	F-1/yr	2020	0.035	-	-
ER	ER-calc-ratio	2015	0.045	-	-
TC	TC-MT	2020	2198		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.794		
F/Fmsy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

Dusky rockfish Gulf of Alaska [DUSROCKGA]

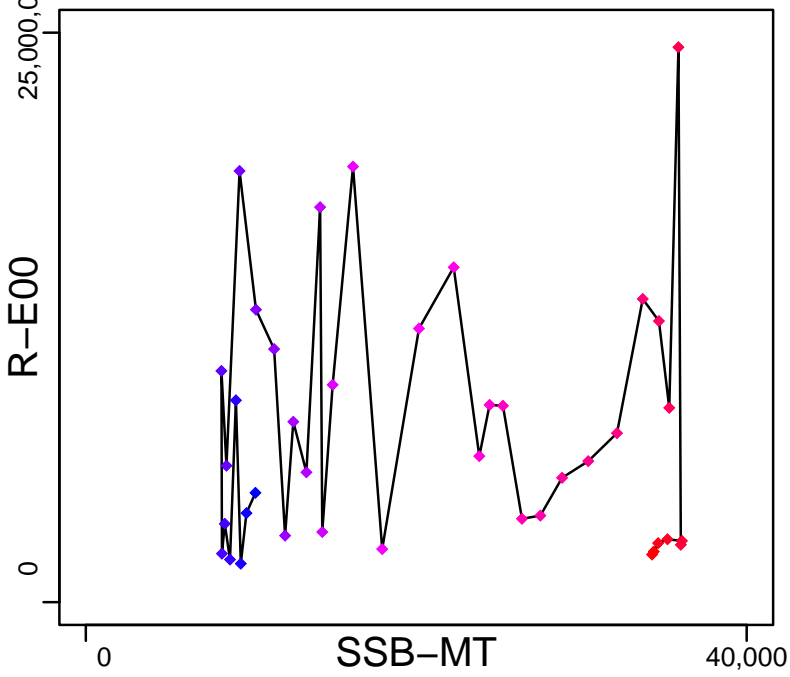
Kobe MSYpref (1973–2020–SISIMP2022)



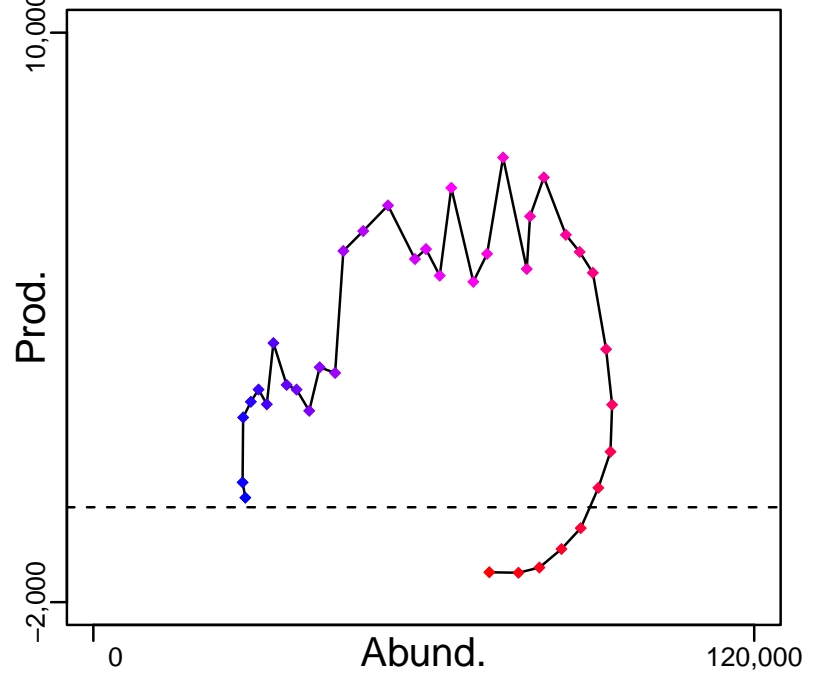
Kobe MGTpref (1973–2020–SISIMP2022)



Spawner Recruit (1973–2020–SISIMP2022)



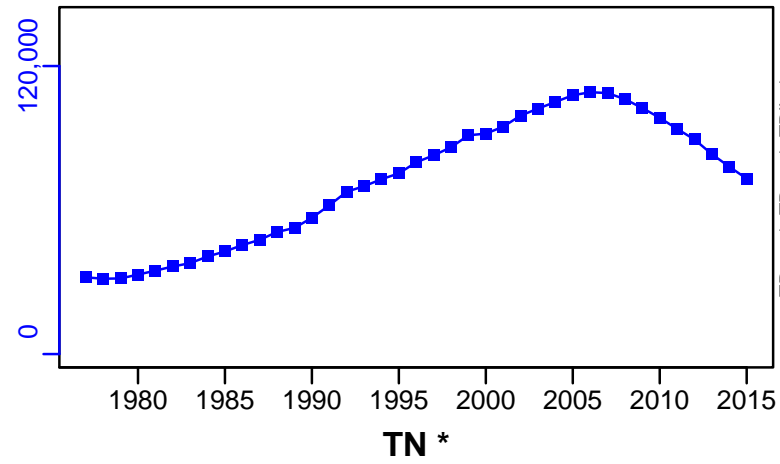
Production (1977–2015–SISIMP2016)



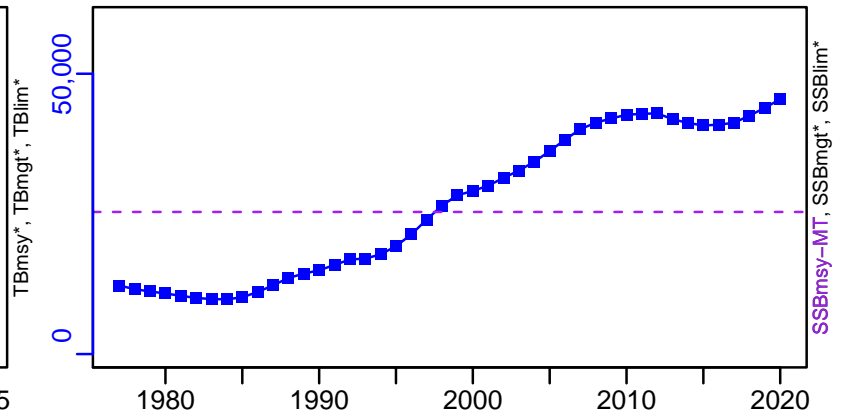
◆ Start Year ◆ End Year * No Data

Dusky rockfish Gulf of Alaska [DUSROCKGA]

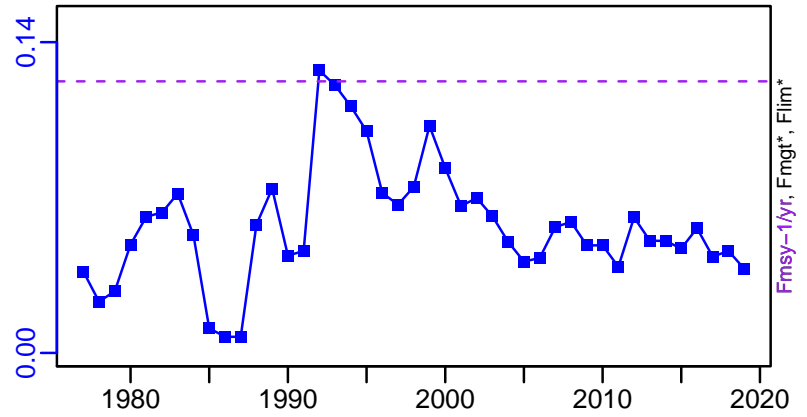
TB-MT (1977–2015–SISIMP2016)



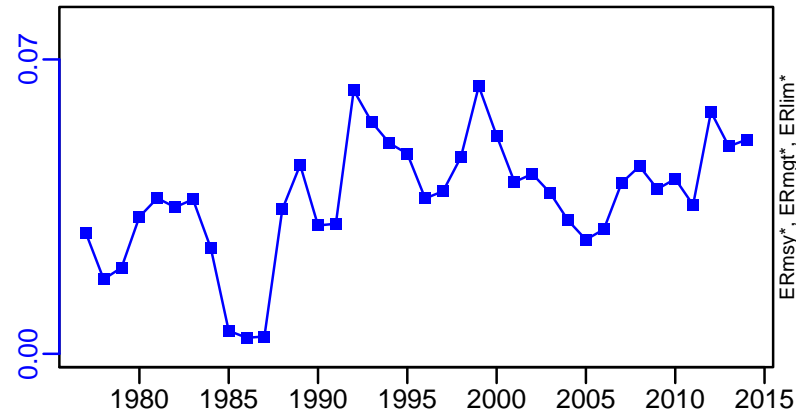
SSB-MT (1973–2020–SISIMP2022)



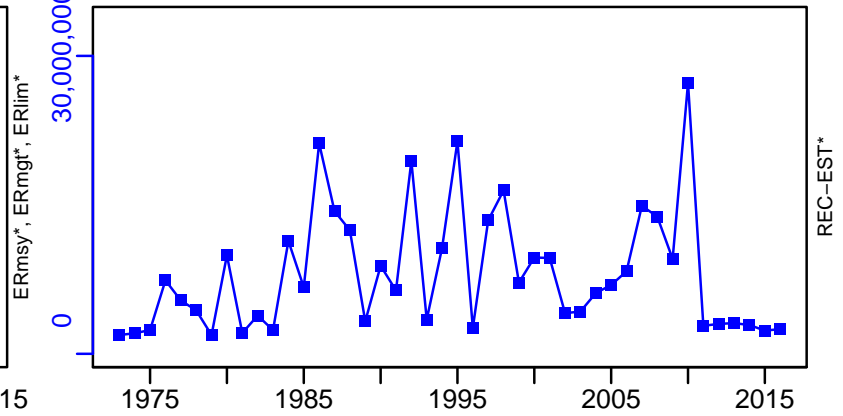
F-1/yr (1973–2020–SISIMP2022)



ER-calc-ratio (1977–2015–SISIMP2016)



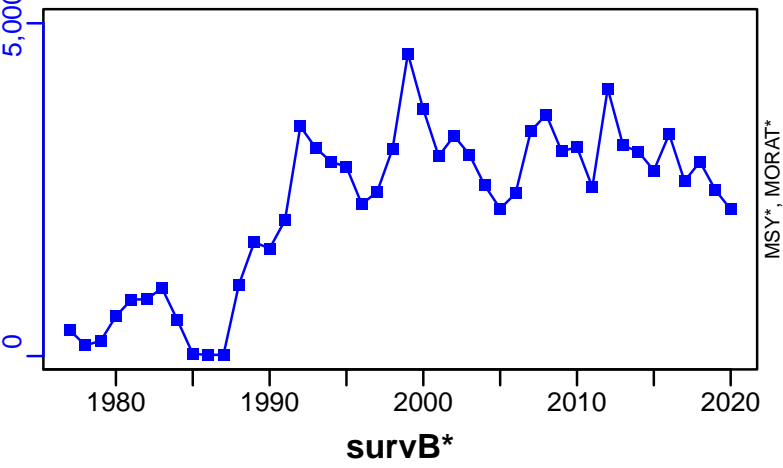
R-E00 (1973–2020–SISIMP2022)



Dusky rockfish Gulf of Alaska [DUSROCKGA]

TC-MT, TL*, RecC* (1973-2020-SISIMP2022)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

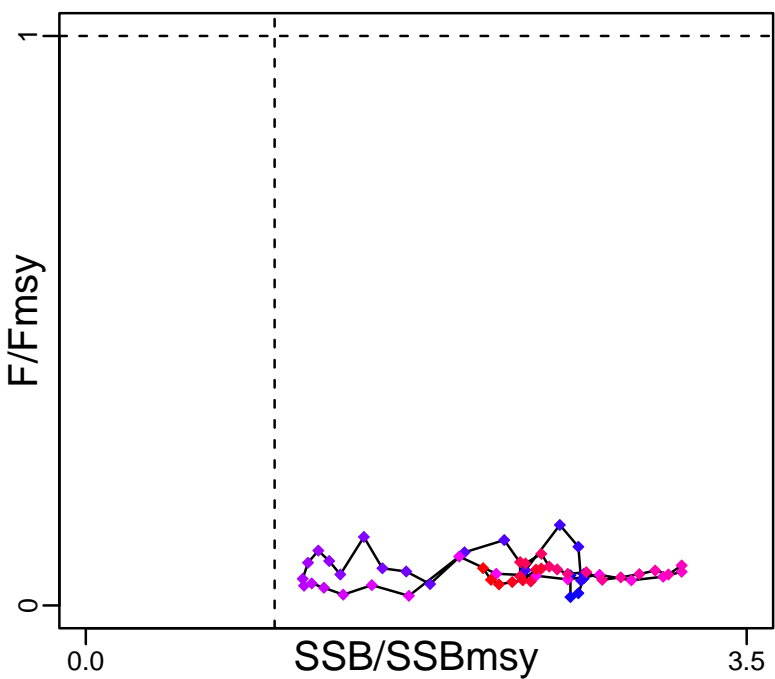
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEBSAI-1964-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2018, 2018, 2020, 2020, 2010, 2016, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	71,300
Fmsy	Fmsy-1/yr	2020	0.46
ERmsy	-	-	-
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	2020	0.495
ERlim	-	-	-

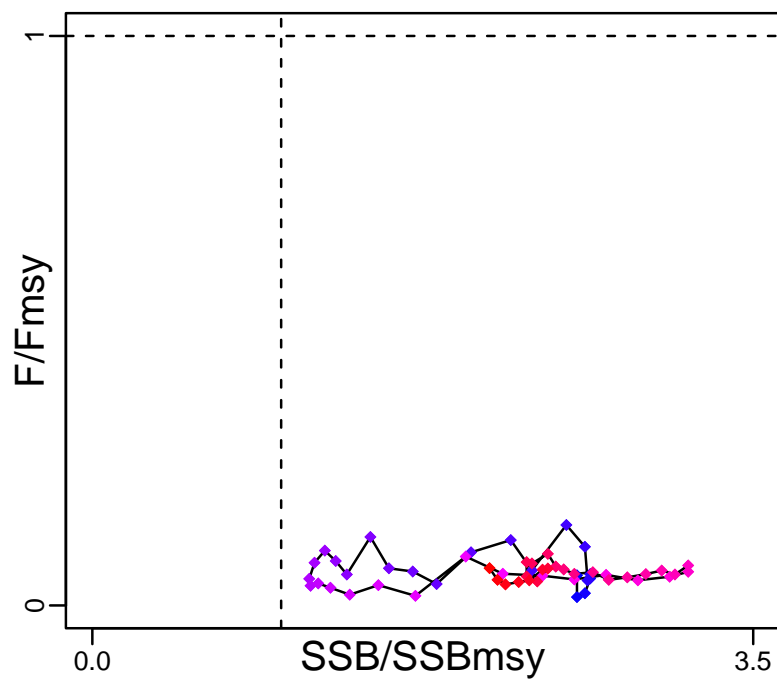
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	738,000	-	3+
SSB	SSB-MT	2020	148,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	958,000	-	0
F	F-1/yr	2020	0.03	-	-
ER	ER-calc-ratio	2015	0.021	-	-
TC	TC-MT	2020	15,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.076		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.065		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

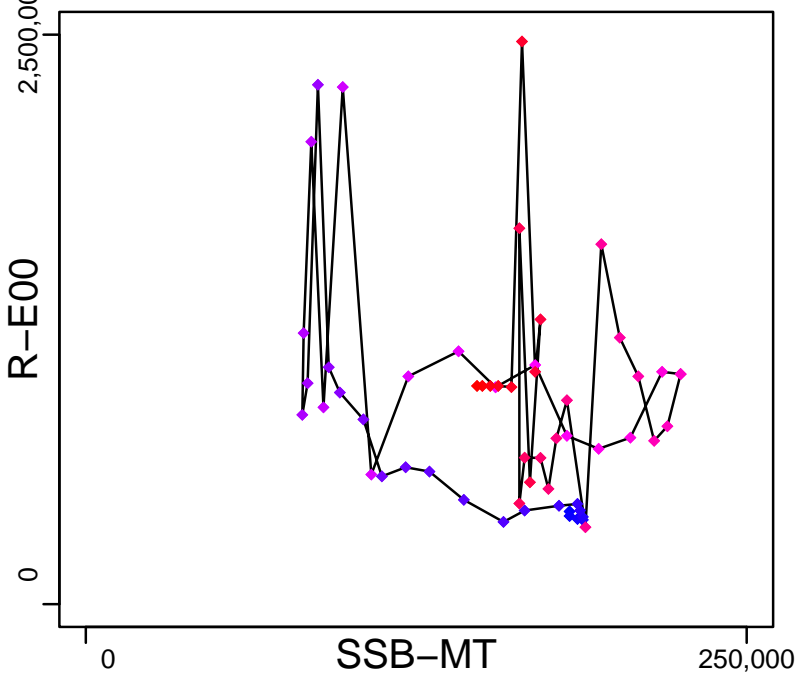
Kobe MSYpref (1964–2020–SISIMP2021–2)



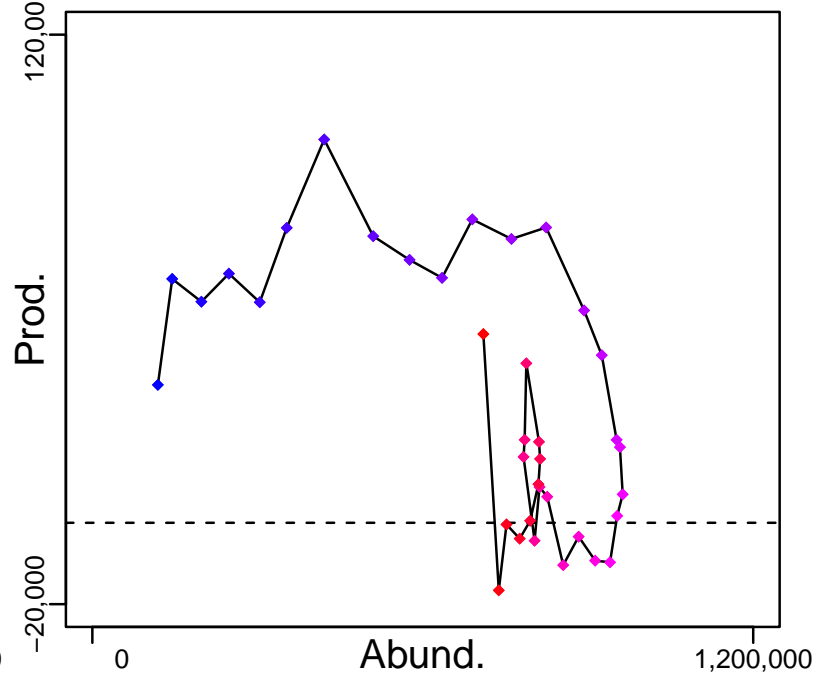
Kobe MGTpref (1964–2020–SISIMP2021–2)



Spawner Recruit (1964–2020–SISIMP2021–2)

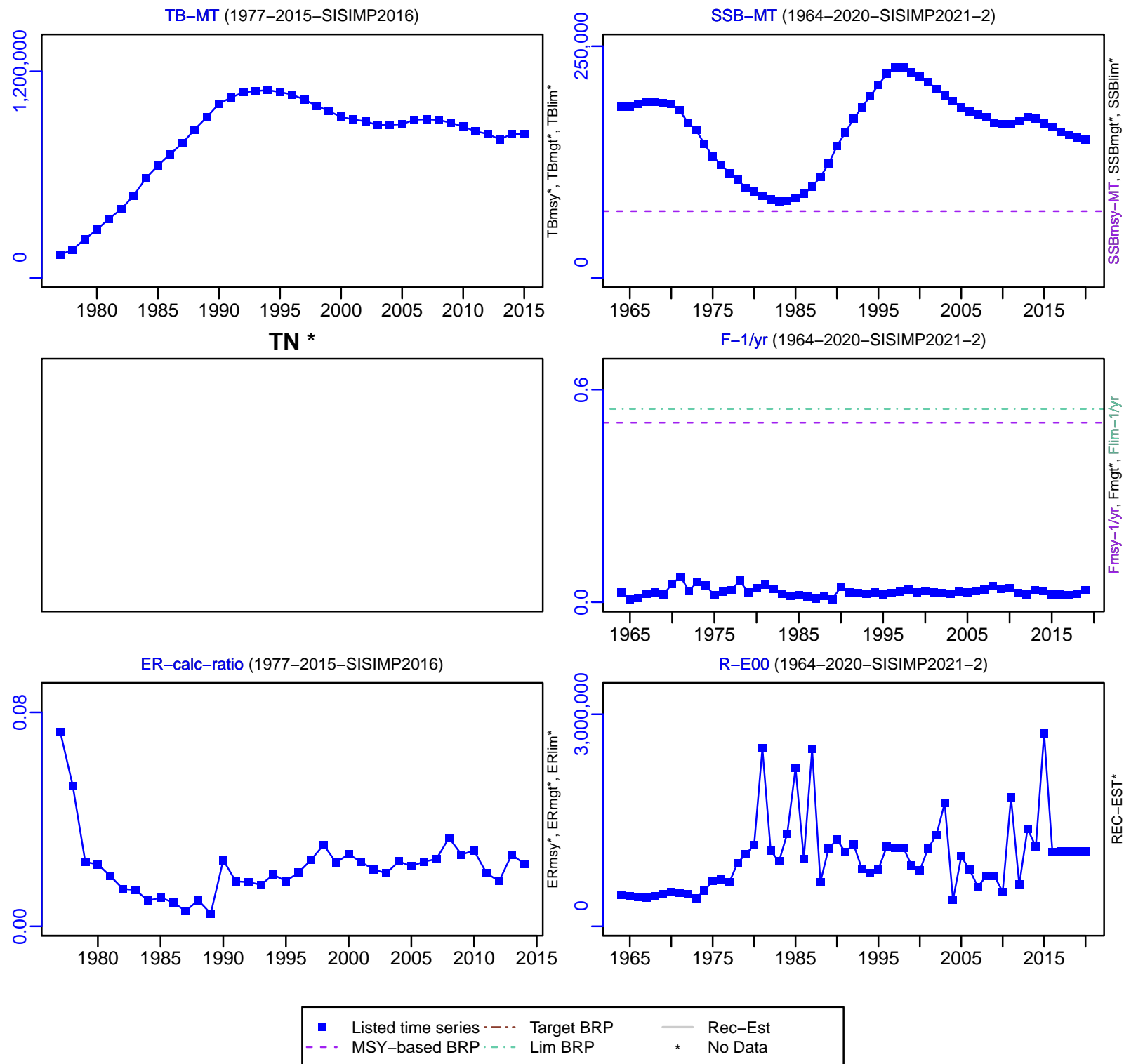


Production (1977–2015–SISIMP2016)



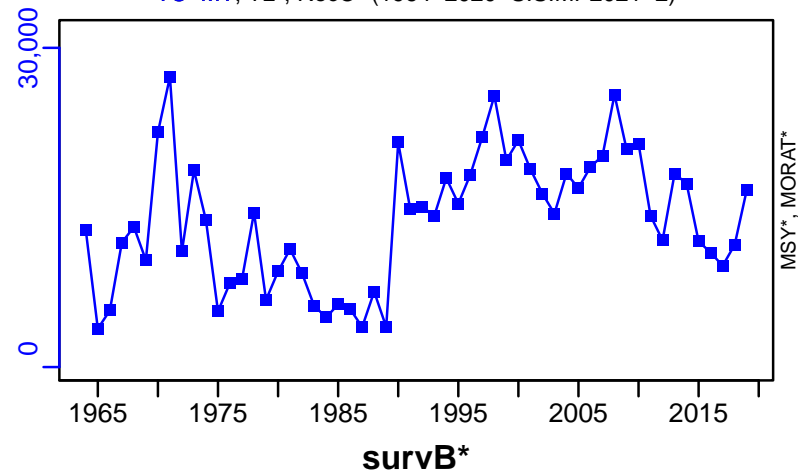
◆ Start Year ◆ End Year * No Data

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

TC-MT, TL*, RecC* (1964-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



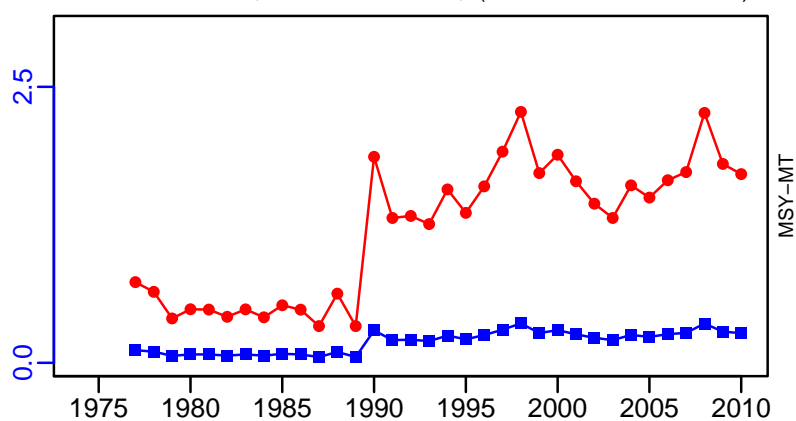
CPUE*



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]

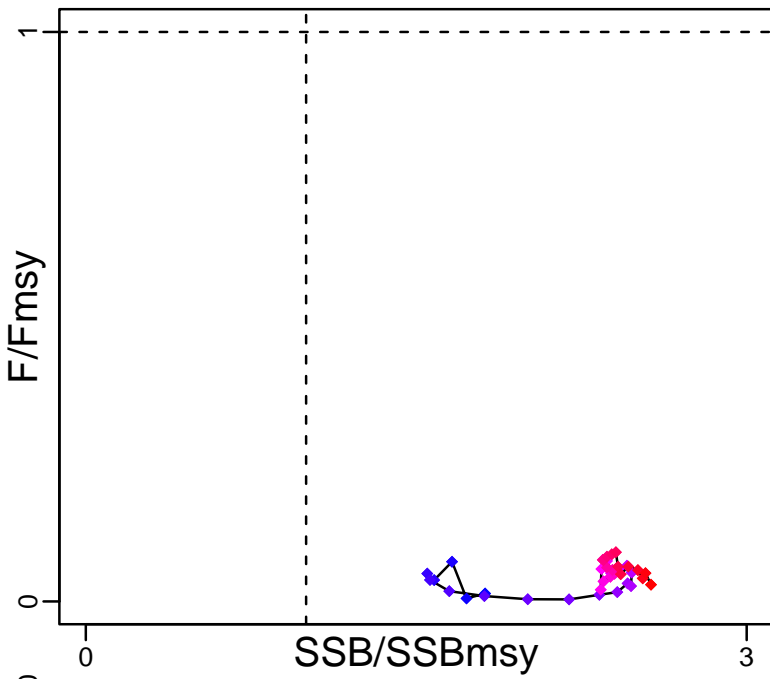
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEGA-1978-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	32,000
Fmsy	Fmsy-1/yr	2019	0.36
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2019	0.36
ERlim	-	-	-

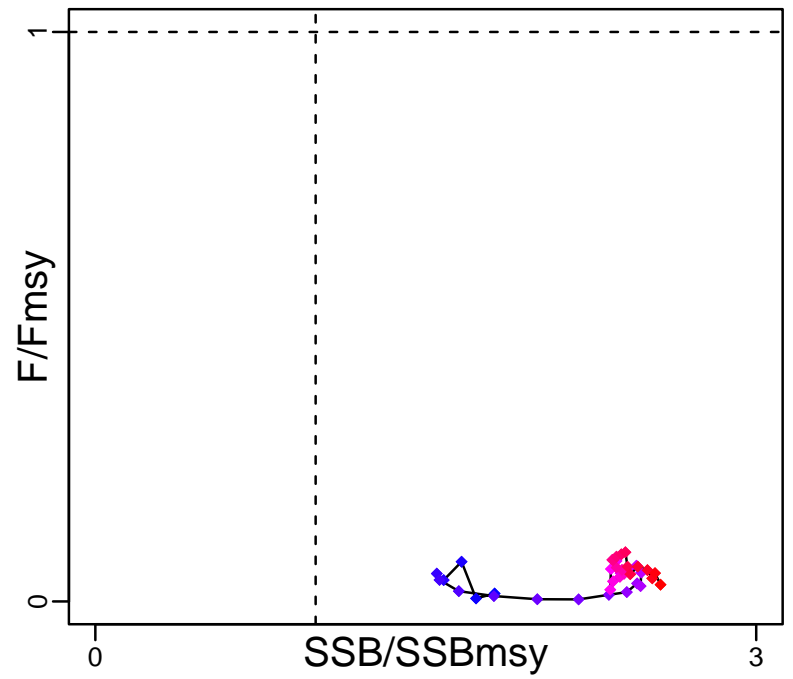
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	258,000	-	3+
SSB	SSB-MT	2019	83,300	-	-
TN	-	-	-	-	-
R	R-E00	2019	3.7×10^8	-	0
F	F-1/yr	2019	0.011	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2019	2670		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.603		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.029		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Gulf of Alaska [FLSOLEGA]

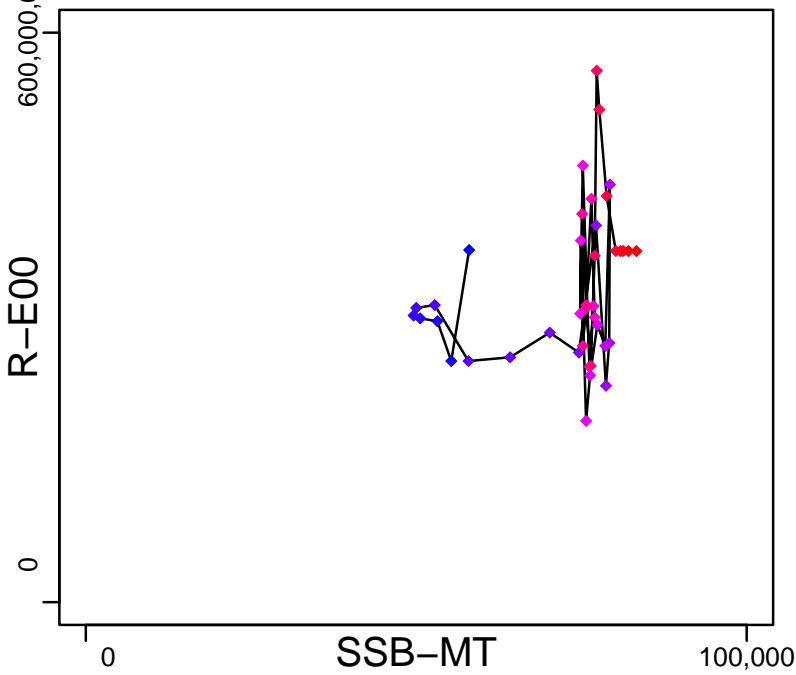
Kobe MSYpref (1978–2019–SISIMP2021–2)



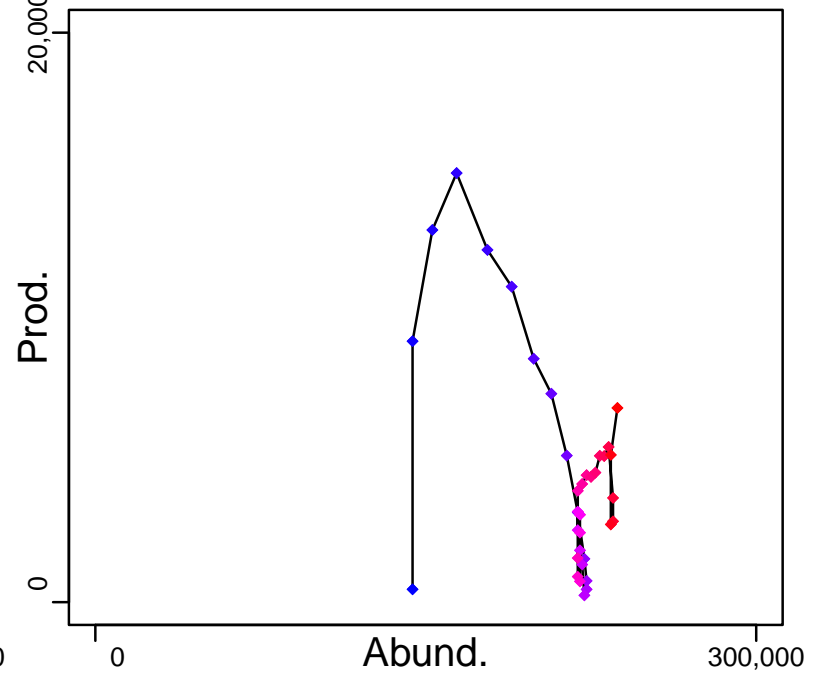
Kobe MGTpref (1978–2019–SISIMP2021–2)



Spawner Recruit (1978–2019–SISIMP2021–2)



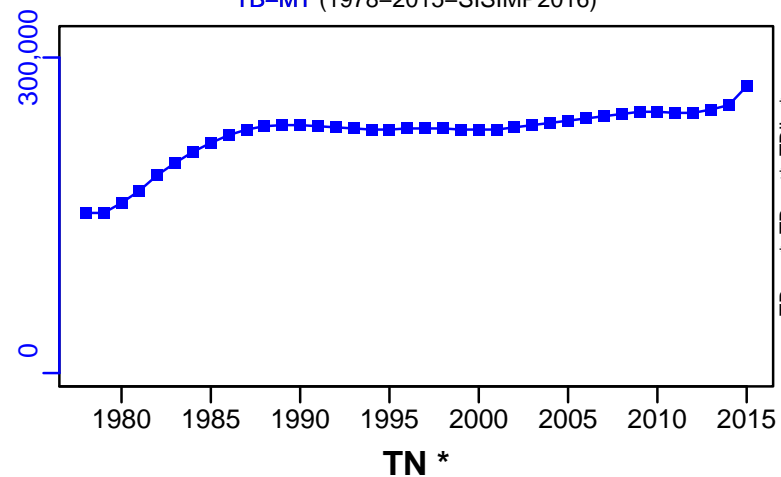
Production (1978–2015–SISIMP2016)



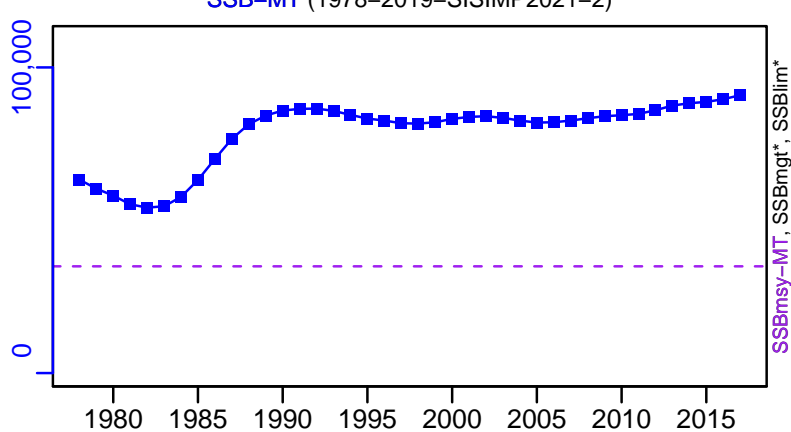
◆ Start Year ◆ End Year * No Data

Flathead sole Gulf of Alaska [FLSOLEGA]

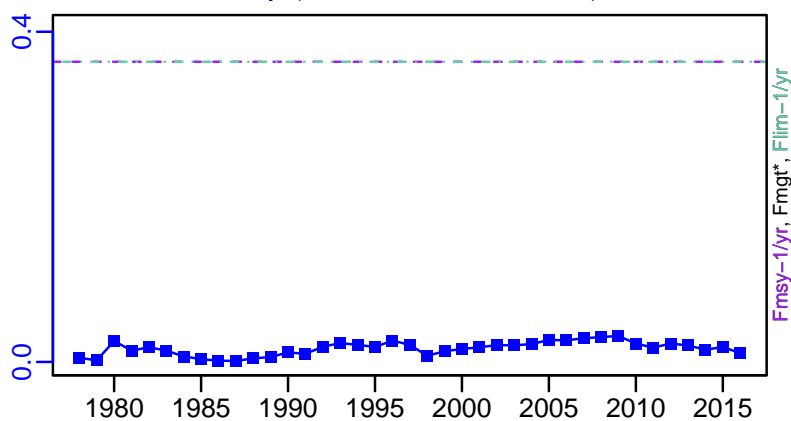
TB-MT (1978–2015–SISIMP2016)



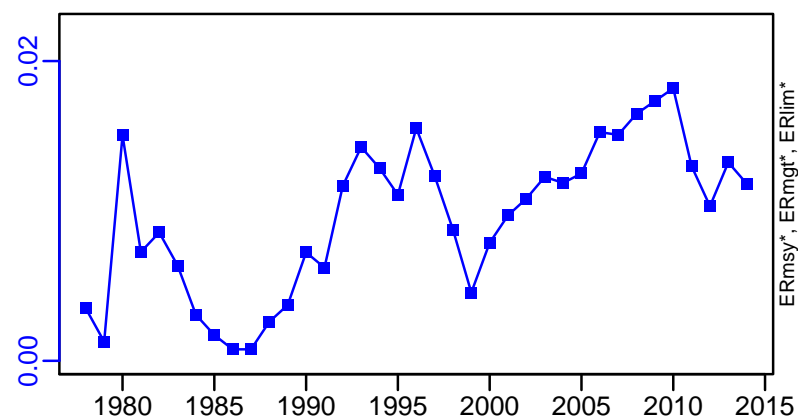
SSB-MT (1978–2019–SISIMP2021–2)



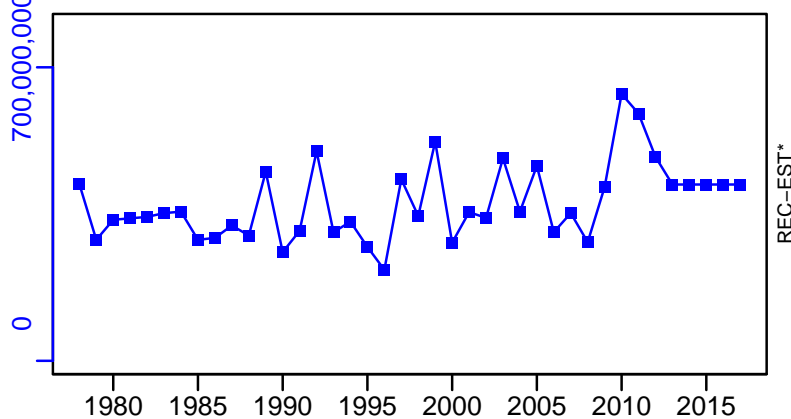
F-1/yr (1978–2019–SISIMP2021–2)



ER-calc-ratio (1978–2015–SISIMP2016)



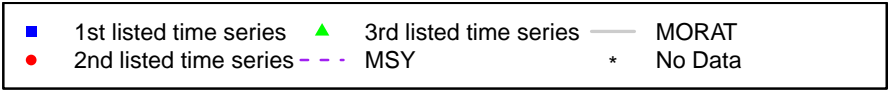
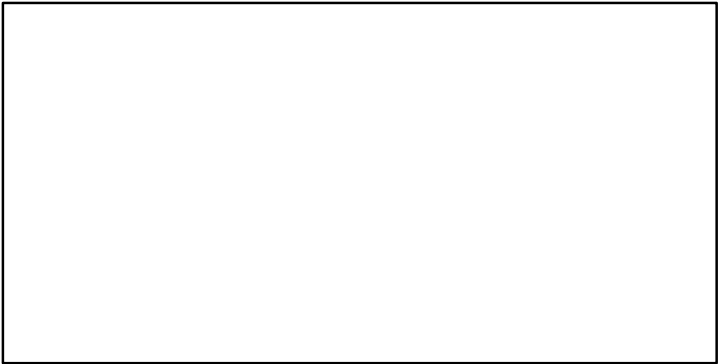
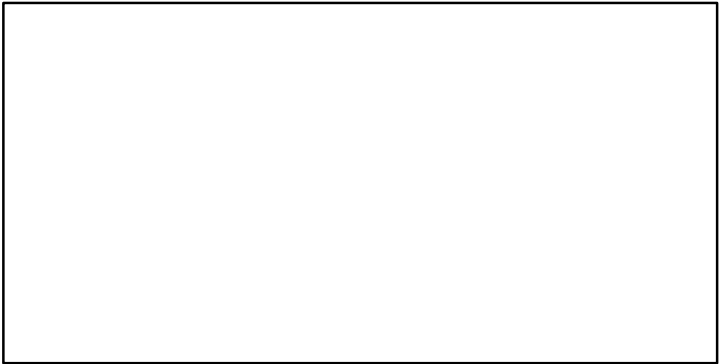
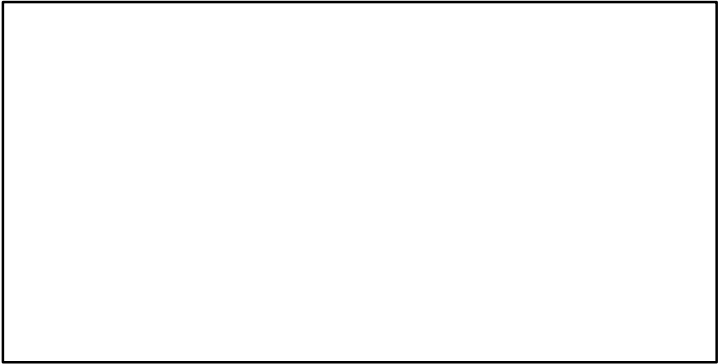
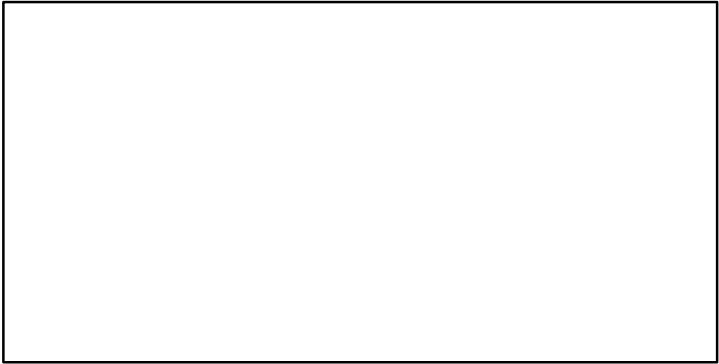
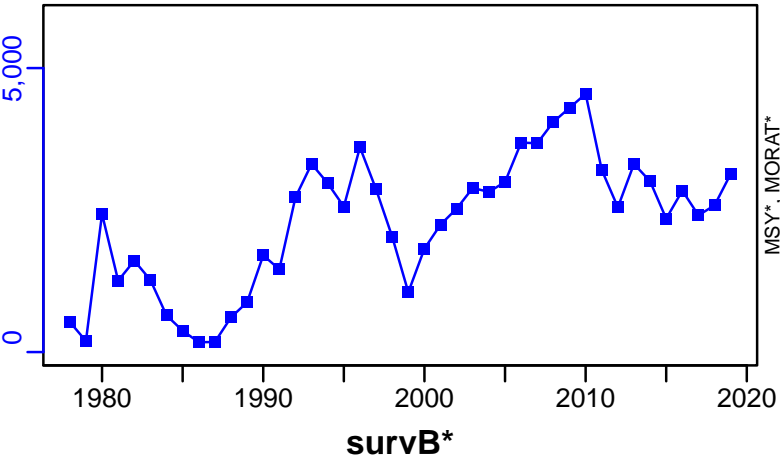
R-E00 (1978–2019–SISIMP2021–2)



Flathead sole Gulf of Alaska [FLSOLEGA]

TC-MT, TL*, RecC* (1978-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

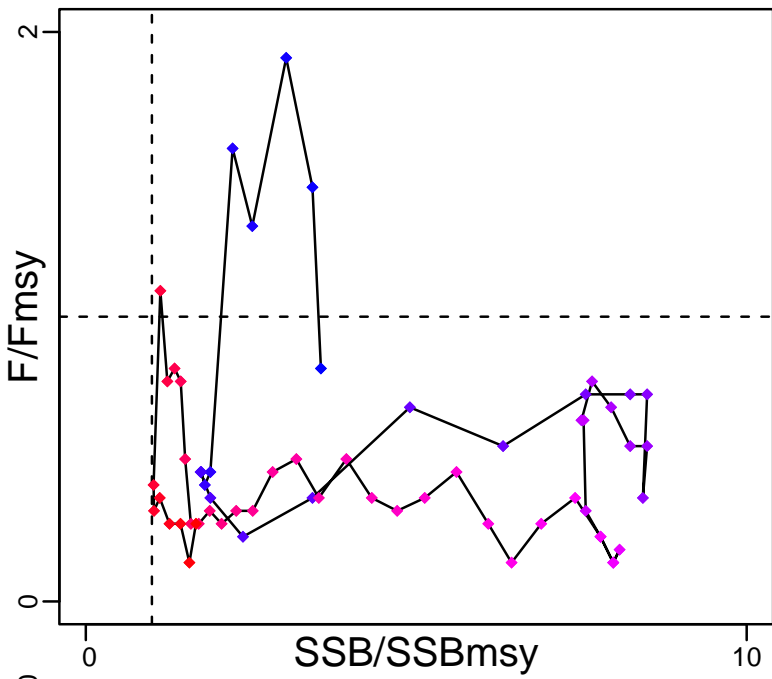
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	AFSC-GHALBSAI-1960-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2018, 2015, 2020, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	31,200
Fmsy	Fmsy-1/yr	2020	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2015	0.11
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.245
ERlim	-	-	-

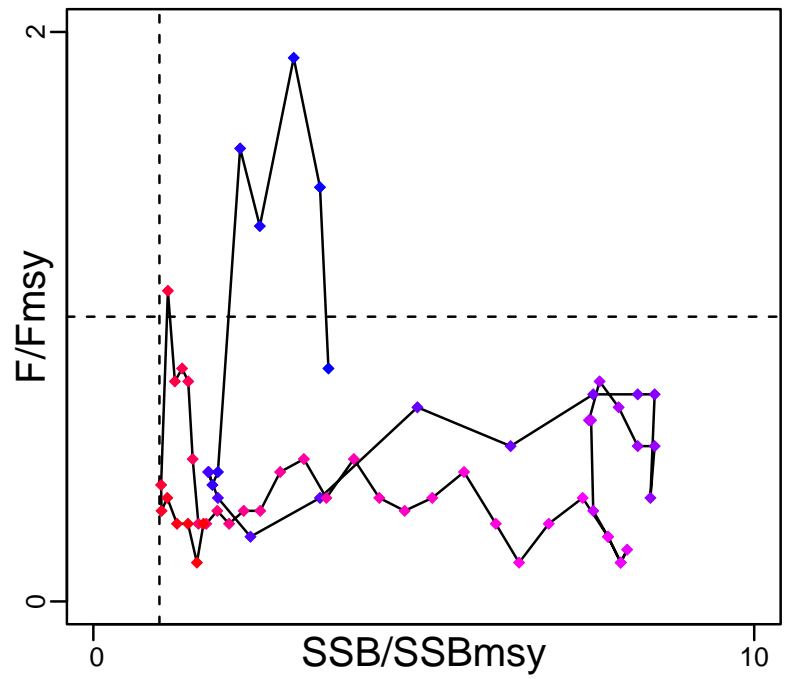
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	122,000	-	1+
SSB	SSB-MT	2020	52,900	-	-
TN	-	-	-	-	-
R	R-E00	2020	6,840,000	-	0
F	F-1/yr	2020	0.06	-	-
ER	ER-ratio	2015	0.02	-	-
TC	TC-MT	2020	2850		
TL	TL-MT	2015	1650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.696		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.273		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

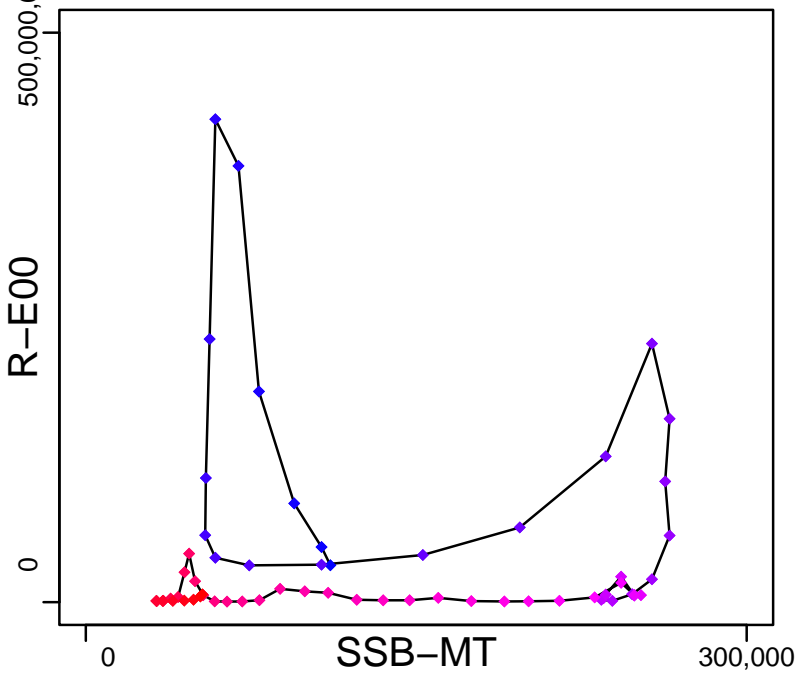
Kobe MSYpref (1960–2020–SISIMP2021–2)



Kobe MGTpref (1960–2020–SISIMP2021–2)



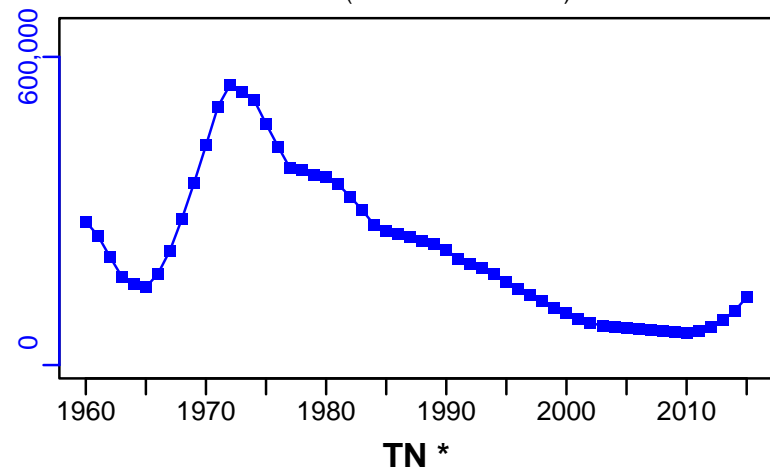
Spawner Recruit (1960–2020–SISIMP2021–2)



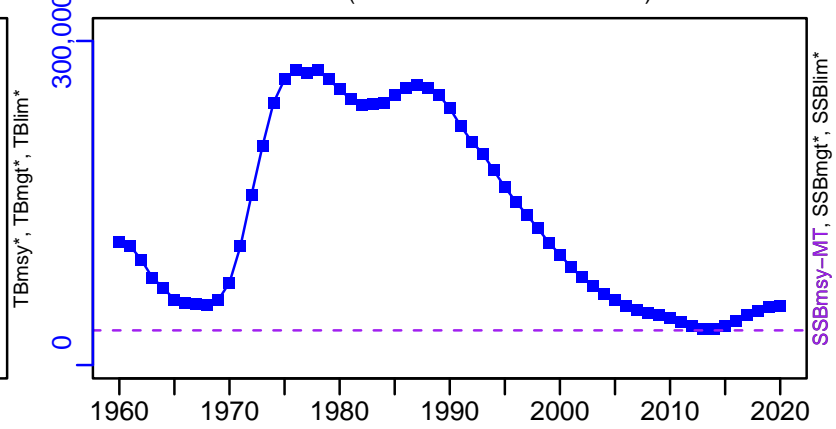
◆ Start Year ◆ End Year * No Data

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

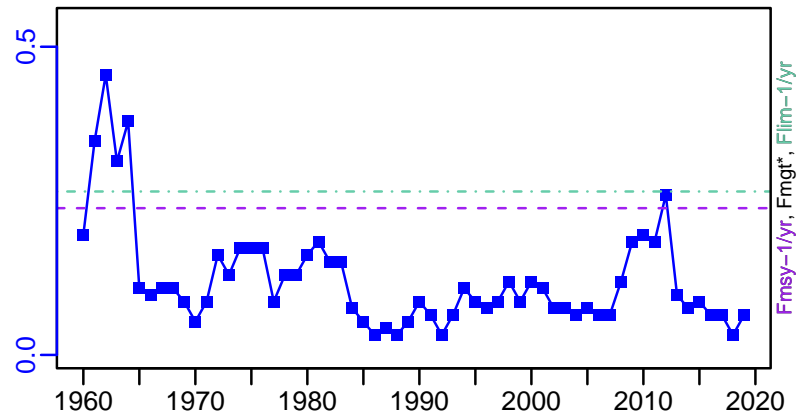
TB-MT (1960–2015–HIVELY)



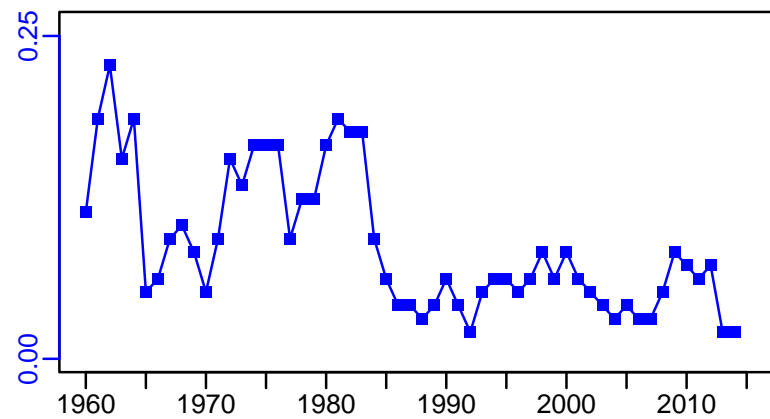
SSB-MT (1960–2020–SISIMP2021–2)



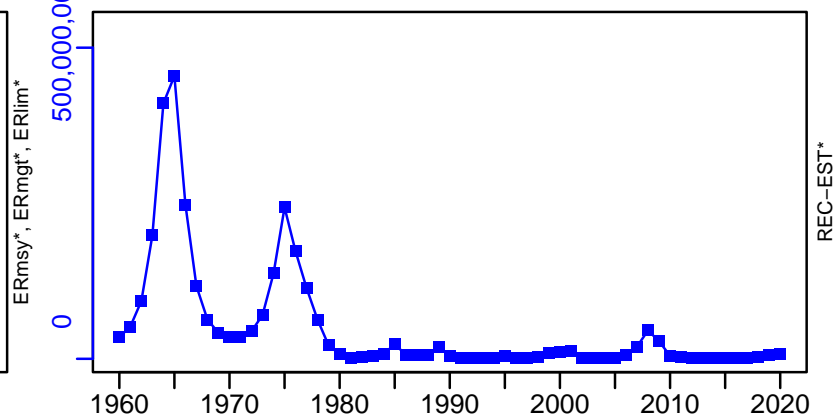
F-1/yr (1960–2020–SISIMP2021–2)



ER-ratio (1960–2015–HIVELY)

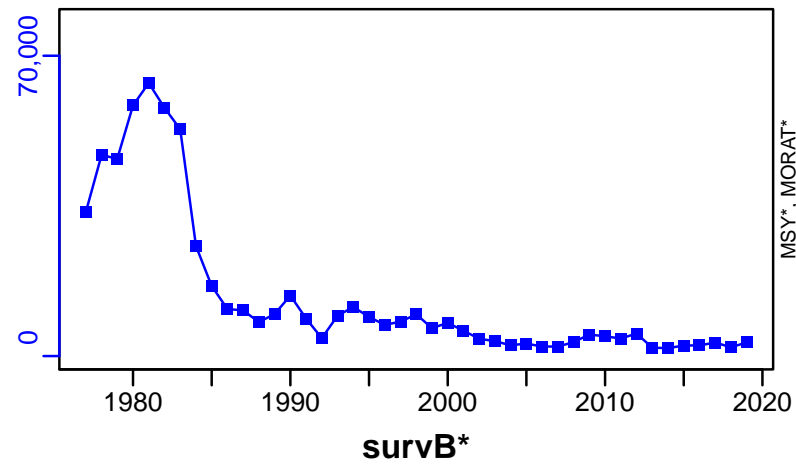


R-E00 (1960–2020–SISIMP2021–2)



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TC-MT, TL*, RecC* (1960-2020-SISIMP2021-2)



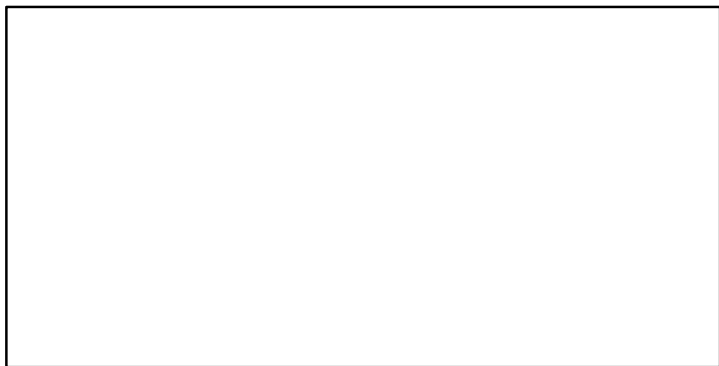
TAC*, Cpair*, Cadv*



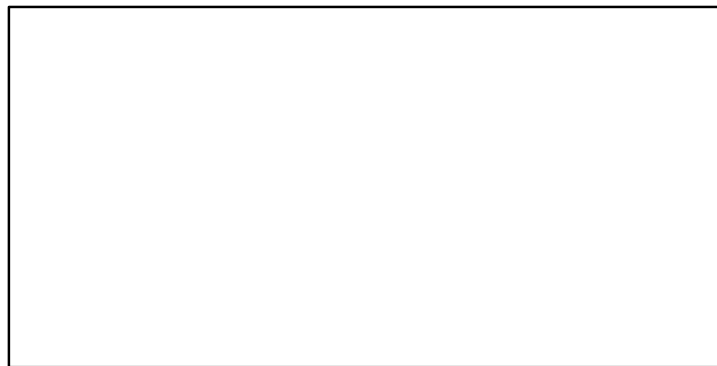
CPUE*



EFFORT*



CdivMSY*



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

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	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

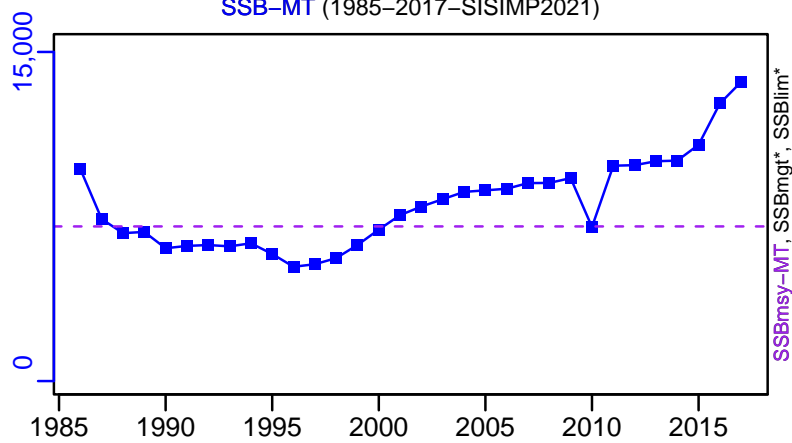
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	13,455	-	-
TN	-	-	-	-	-
R	R-E00	2017	4,700,000	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	2104		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.935		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

TB*



SSB-MT (1985-2017-SISIMP2021)



TN *



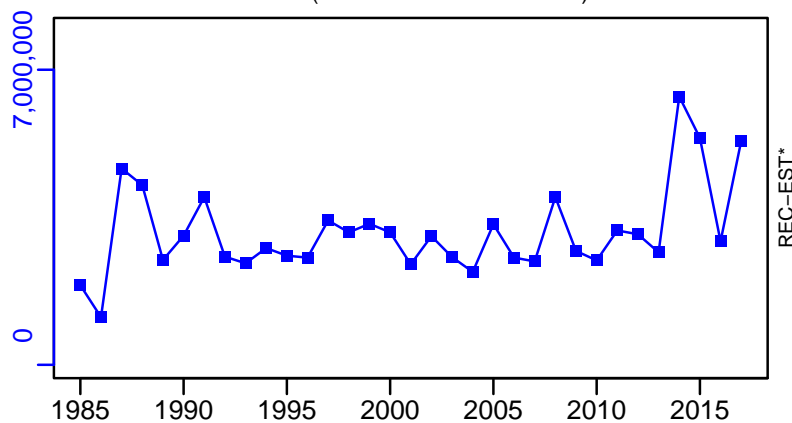
F*



ER*



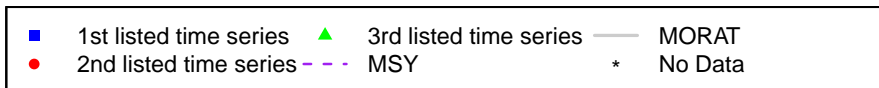
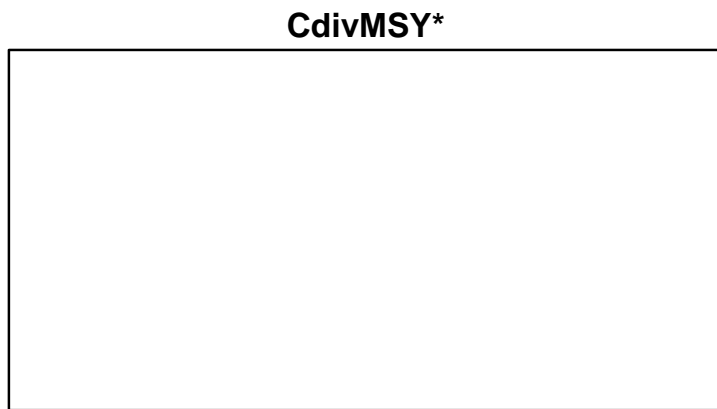
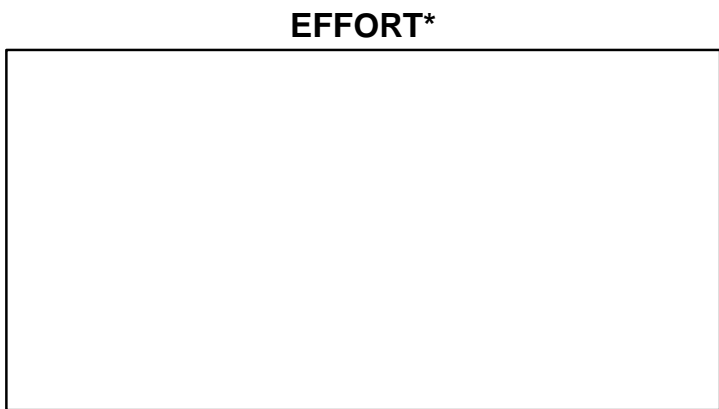
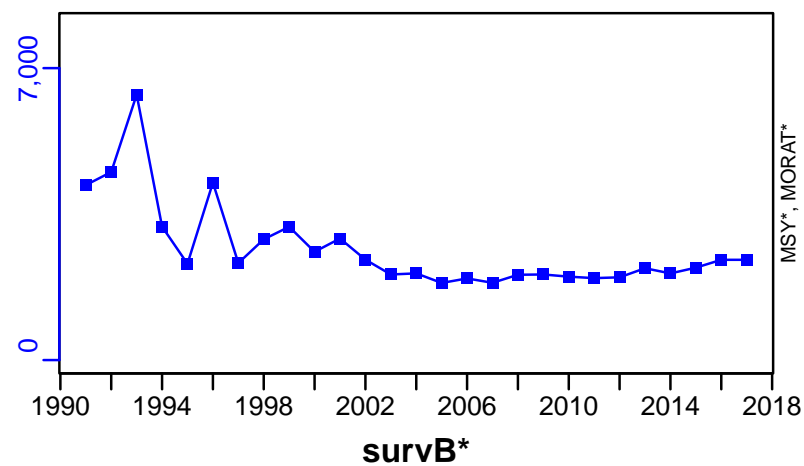
R-E00 (1985-2017-SISIMP2021)



Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

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

TAC*, Cpair*, Cadv*



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	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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	-	-	-	-	-
TC	TC-MT	2017	1425		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.22		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

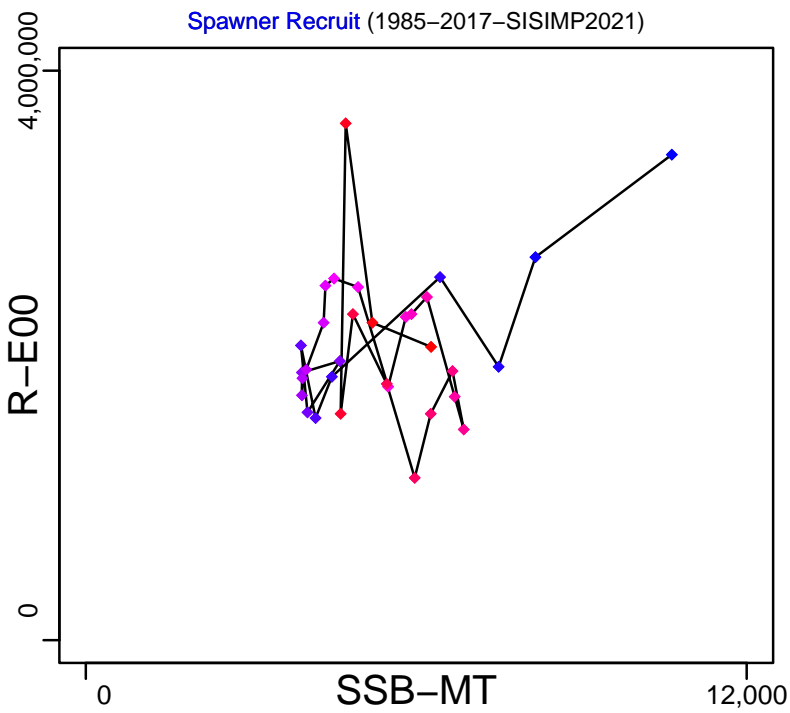
Kobe MSY*



Kobe MGT*



Spawner Recruit (1985–2017–SISIMP2021)



Production*



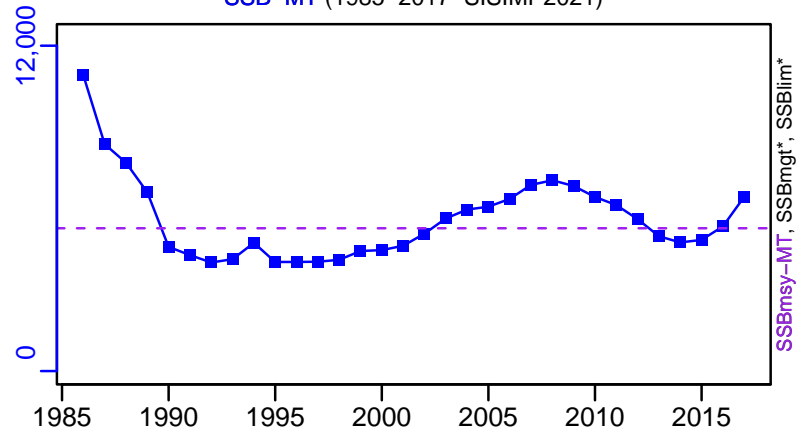
◆ Start Year ◆ End Year * No Data

Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

TB*



SSB-MT (1985–2017–SISIMP2021)



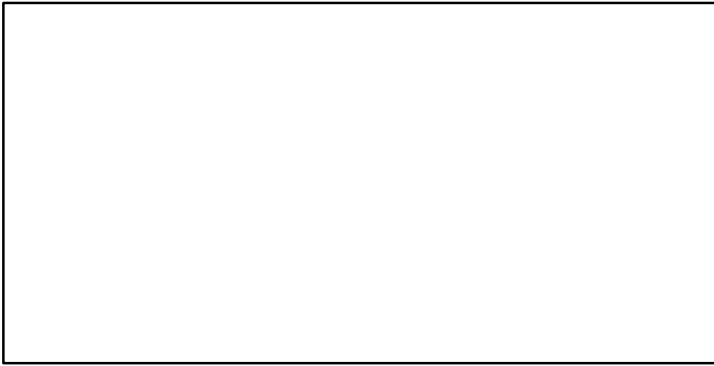
TN *



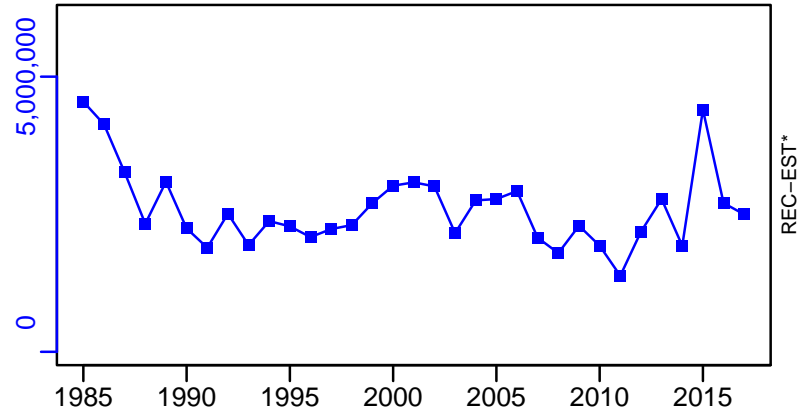
F*



ER*



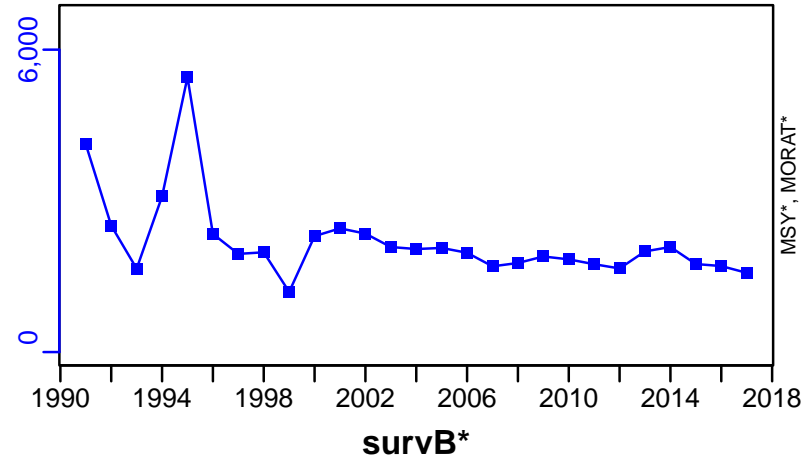
R-E00 (1985–2017–SISIMP2021)



Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

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

TAC*, Cpair*, Cadv*



Golden king crab Pribilof Islands [GKCRABPI]

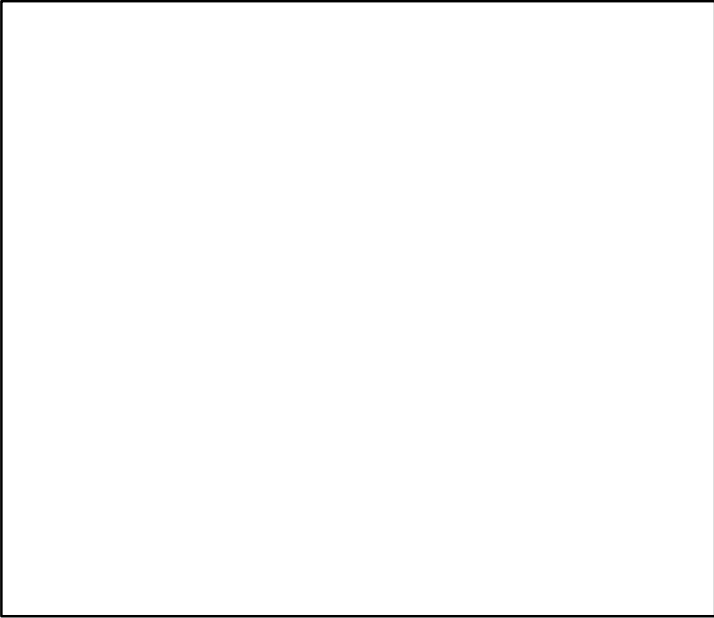
Metadata	
Scientific Name	Lithodes aequispinus
Current Assess ID	AFSC-GKCRABPI-1982-2016-SISIMP2021
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2009

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

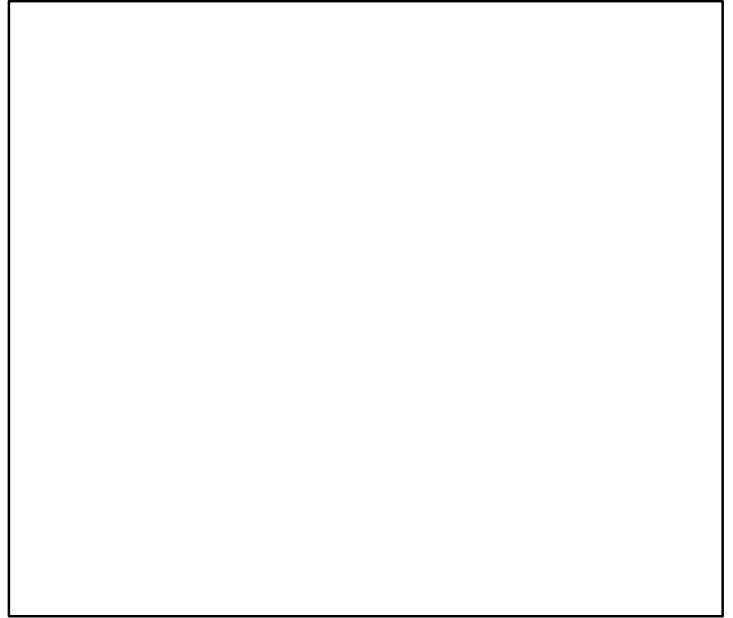
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Golden king crab Pribilof Islands [GKCRABPI]

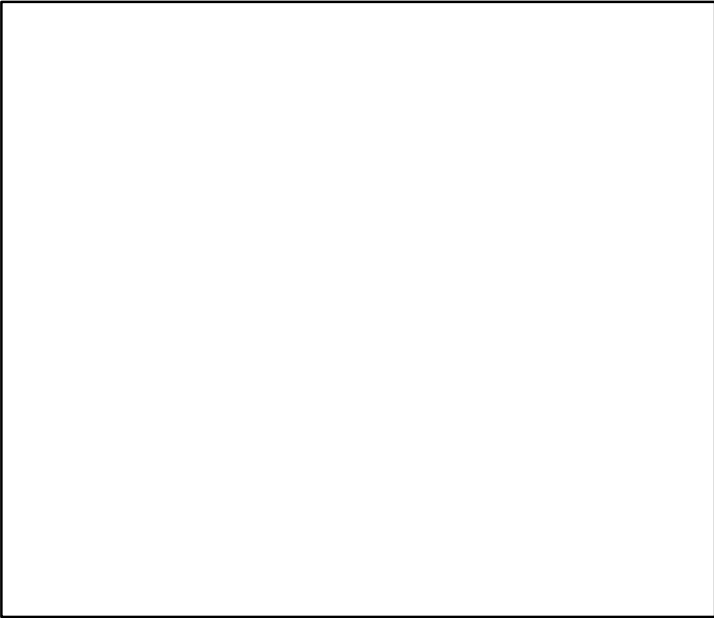
Kobe MSY*



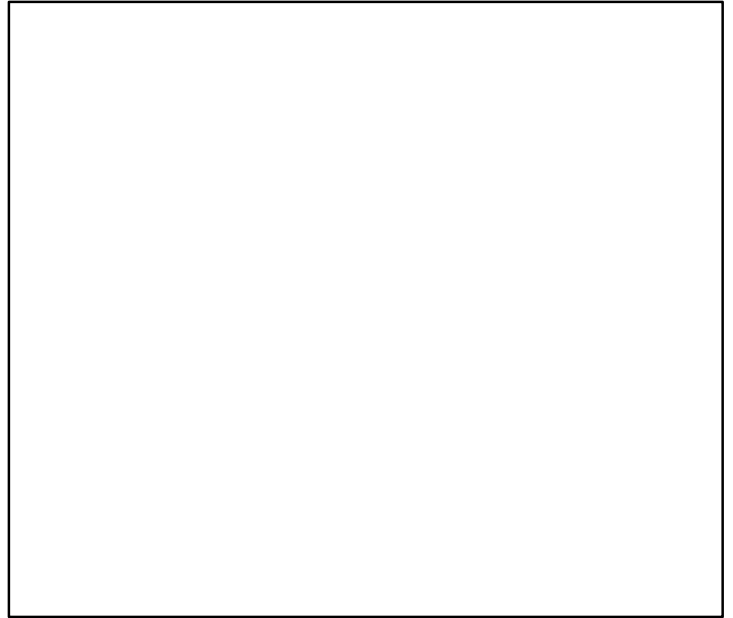
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Golden king crab Pribilof Islands [GKCRABPI]

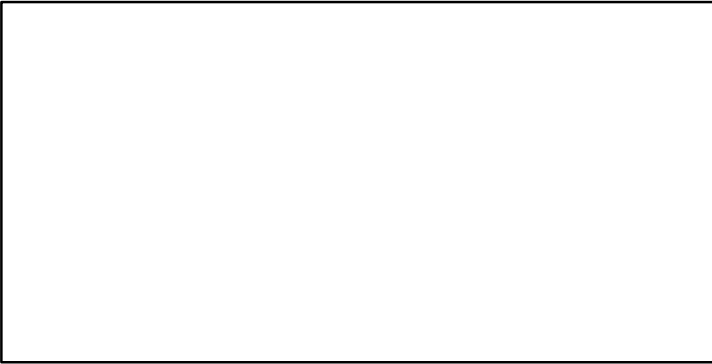
TB*



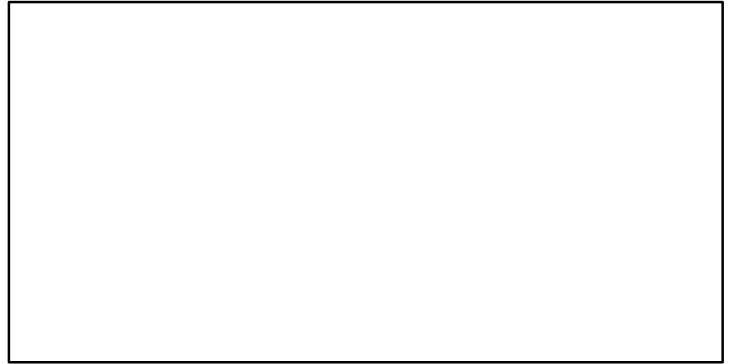
SSB*



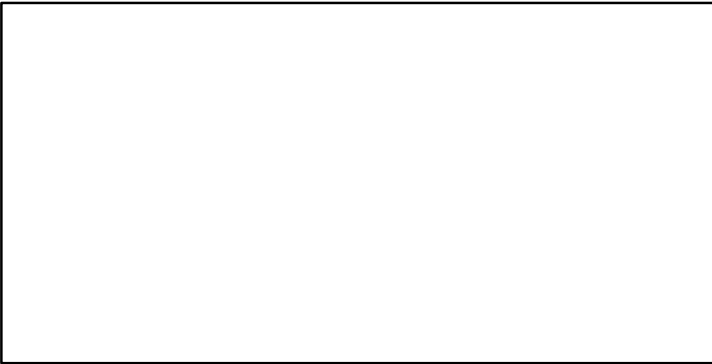
TN *



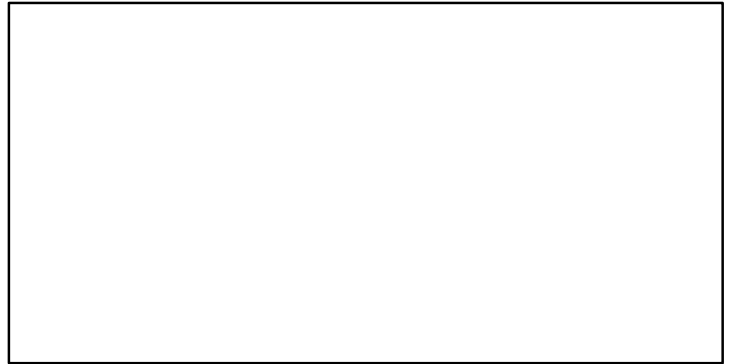
F*



ER*

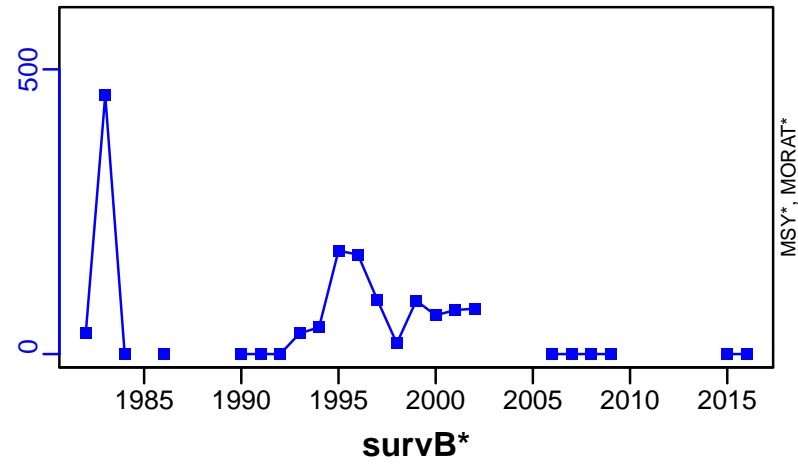


Recruits*



Golden king crab Pribilof Islands [GKCRABPI]

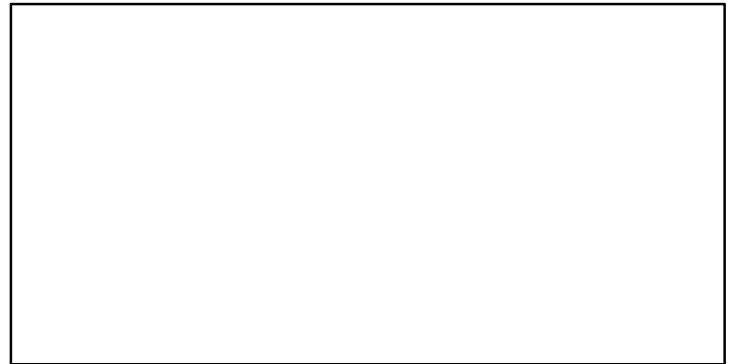
TC-MT, TL*, RecC* (1982-2016-SISIMP2021)



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-1997-2019-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2017, 2019

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	2019	268		
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*



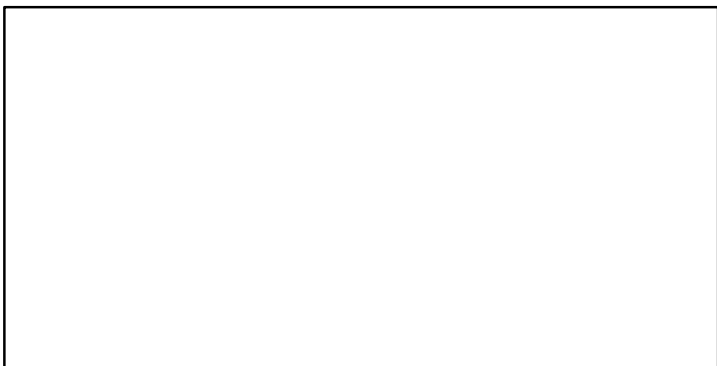
Production*



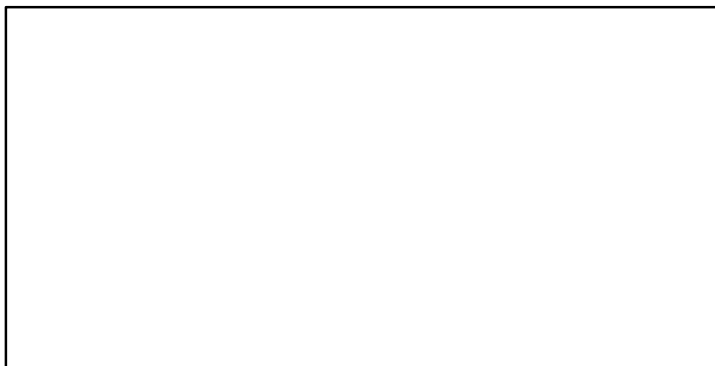
◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TB*



SSB*



TN *



F*



ER*



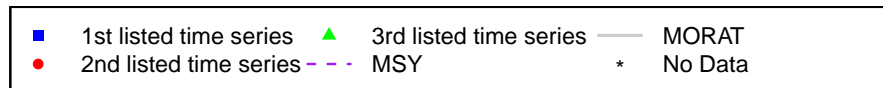
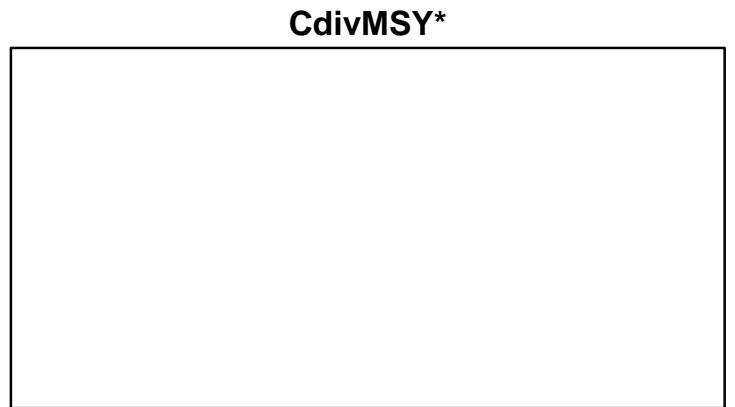
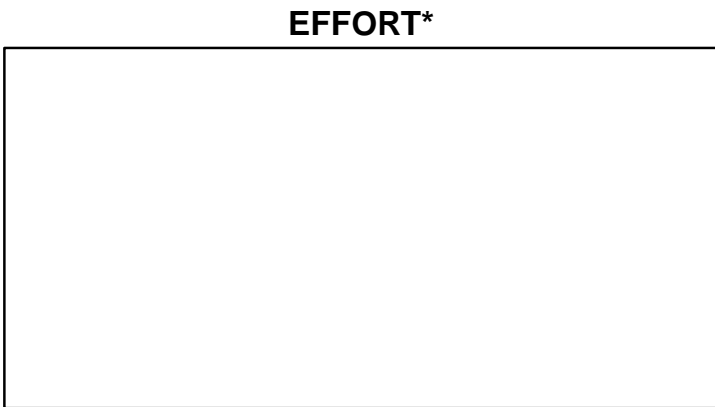
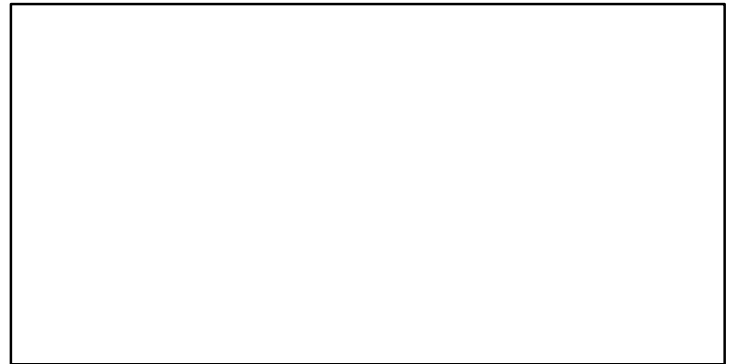
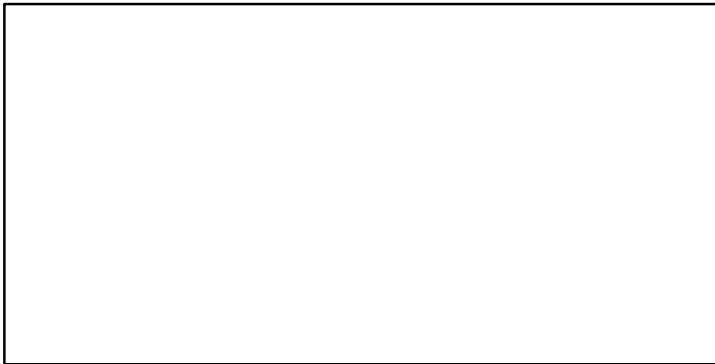
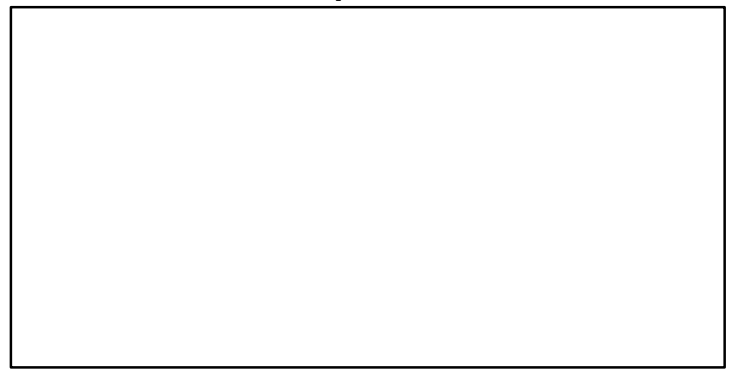
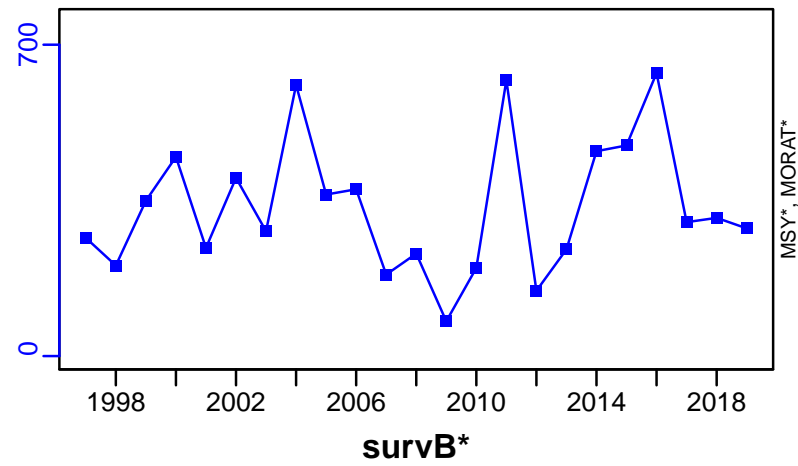
Recruits*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TC-MT, TL*, RecC* (1997-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

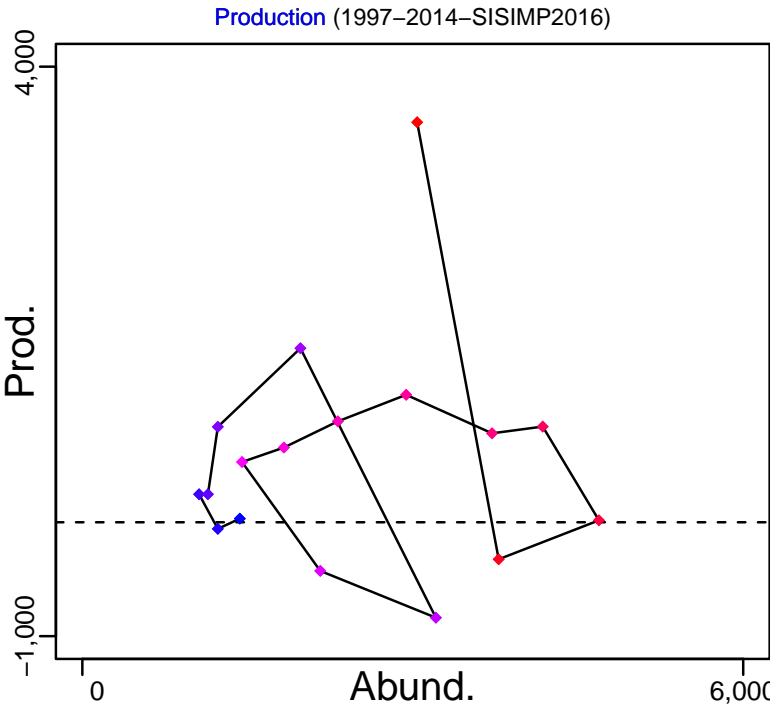
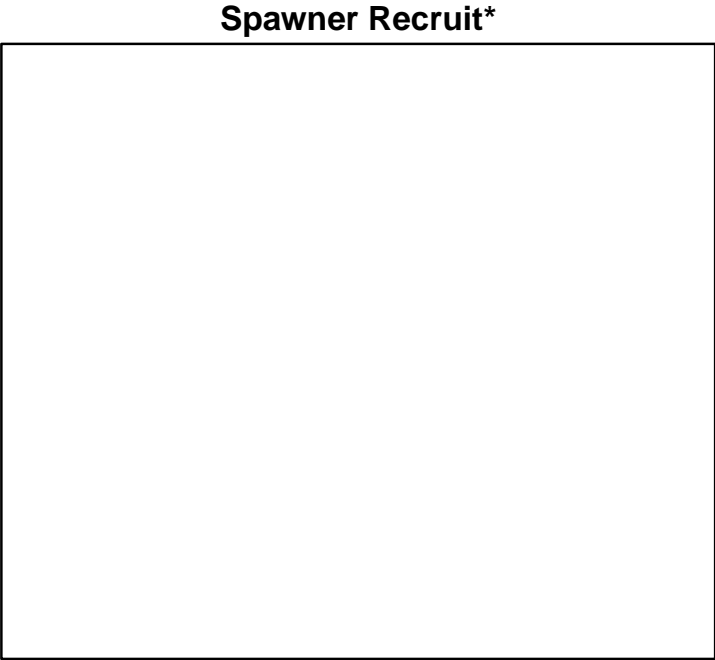
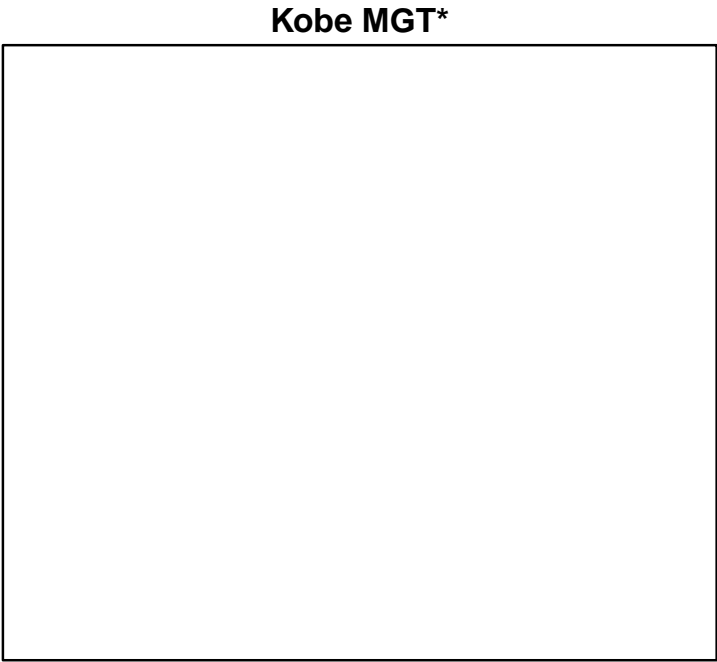
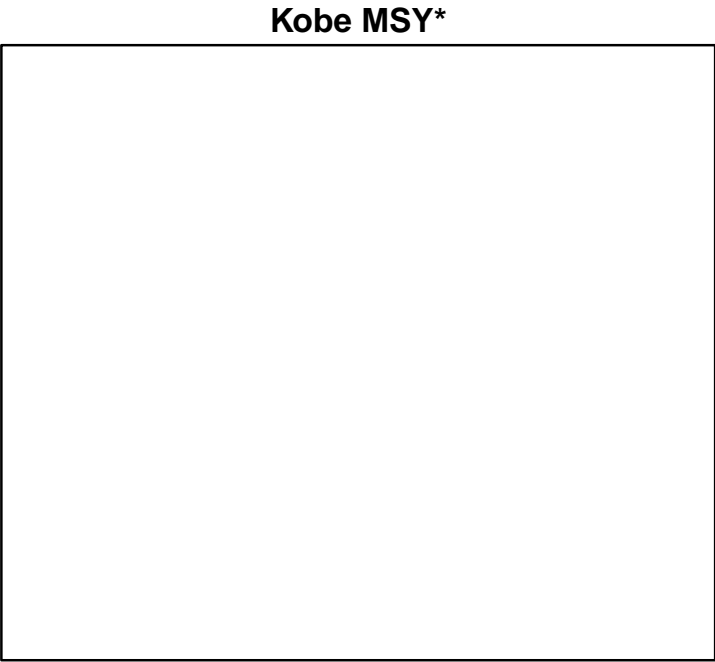


Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

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	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

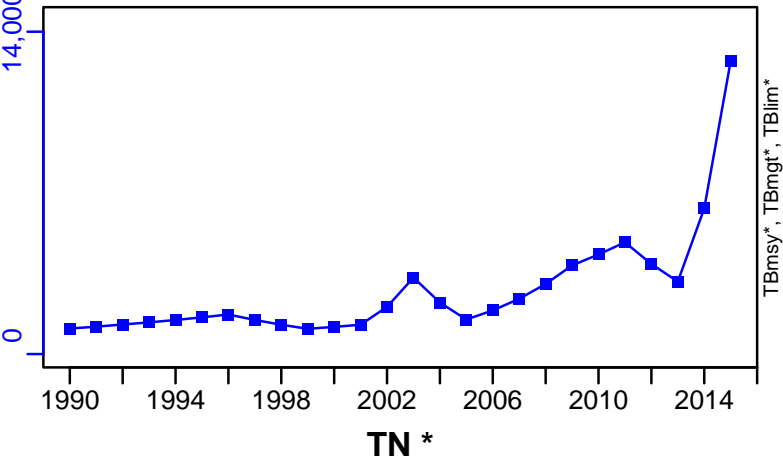
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	12,300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.213	-	-
TC	TC-MT	2016	382		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt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



◆ Start Year ◆ End Year * No Data

Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

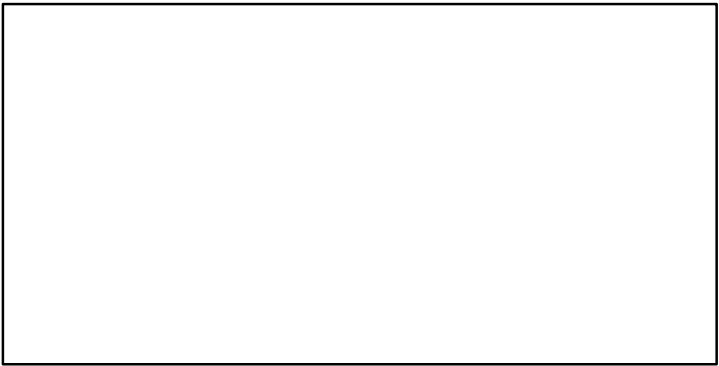
TB-MT (1997–2014–SISIMP2016)



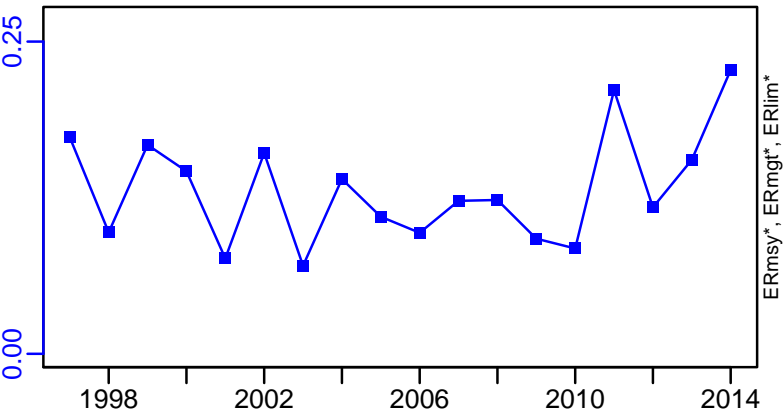
SSB*



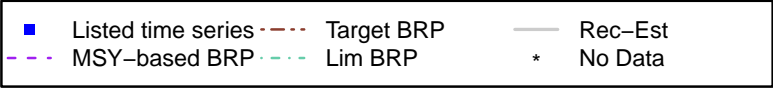
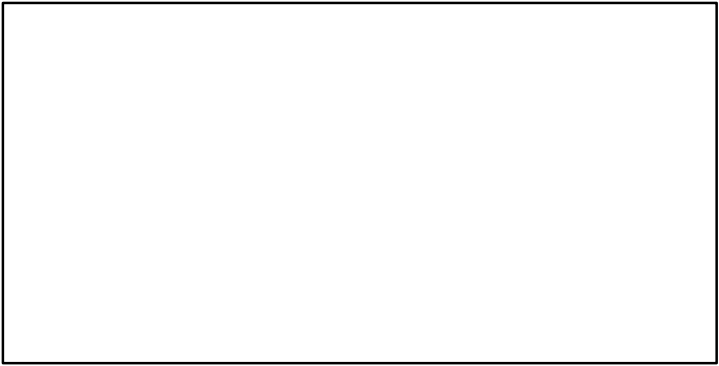
F*



ER-calc-ratio (1997–2014–SISIMP2016)

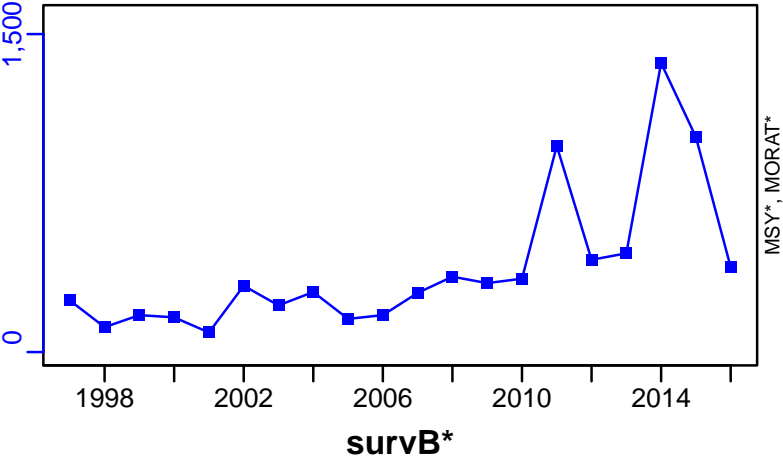


Recruits*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2006	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
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	-	-	-	-	-
TC	TC-E00	2006	0		
TL	TL-MT	2006	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

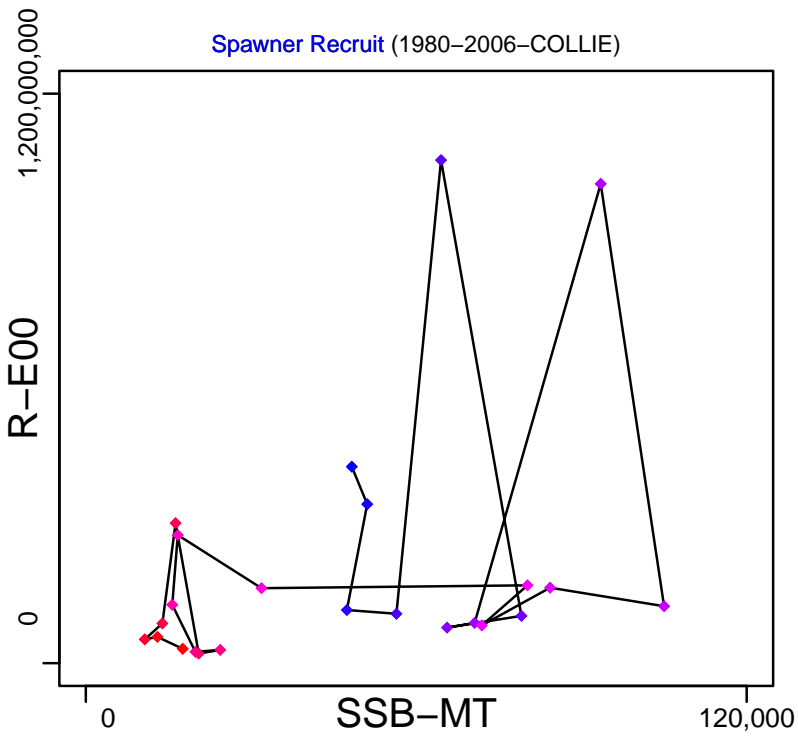
Kobe MSY*



Kobe MGT*



Spawner Recruit (1980–2006–COLLIE)



Production*



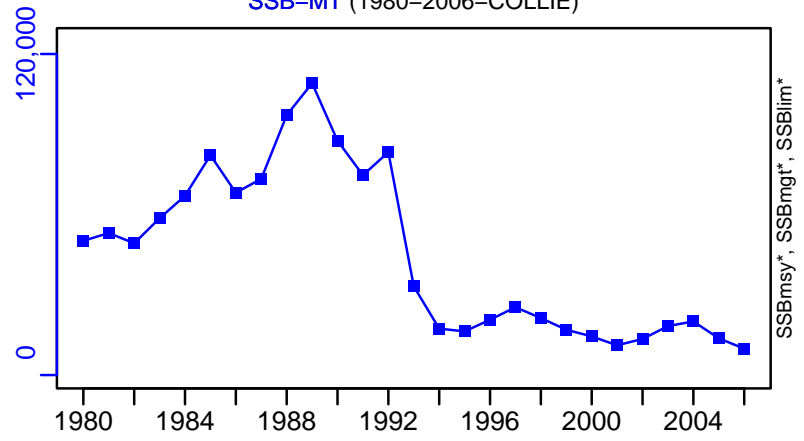
◆ Start Year ◆ End Year * No Data

Pacific herring Prince William Sound [HERRPWS]

TB*



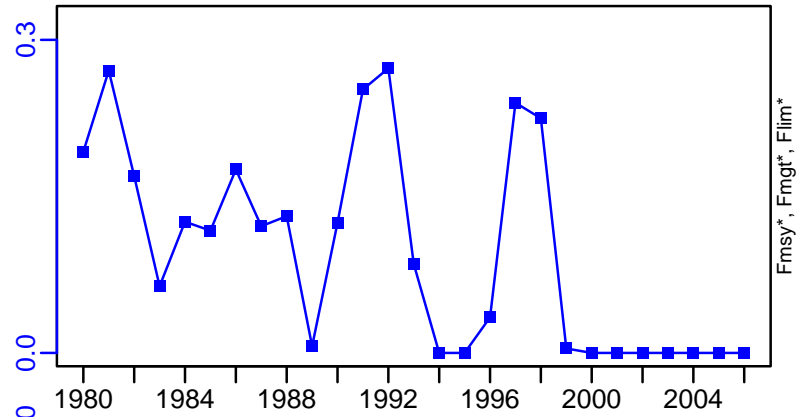
SSB-MT (1980-2006-COLLIE)



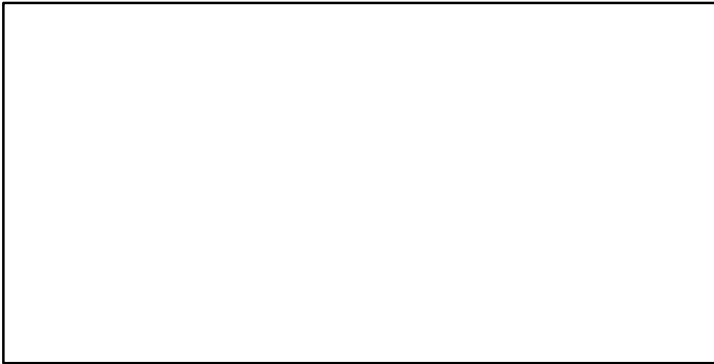
TN *



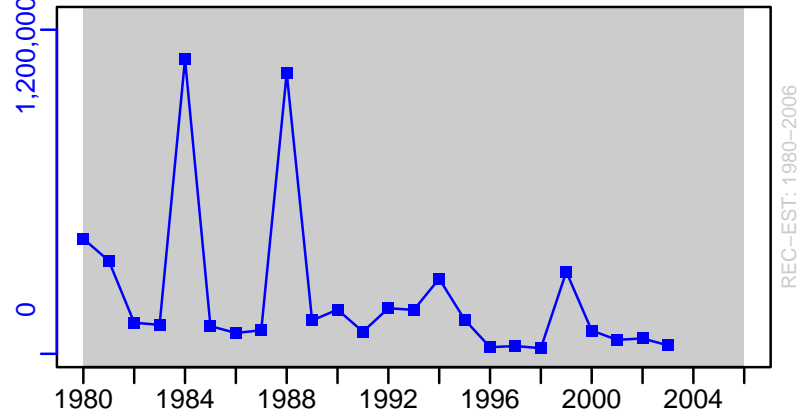
F-1/yr (1980-2006-COLLIE)



ER*



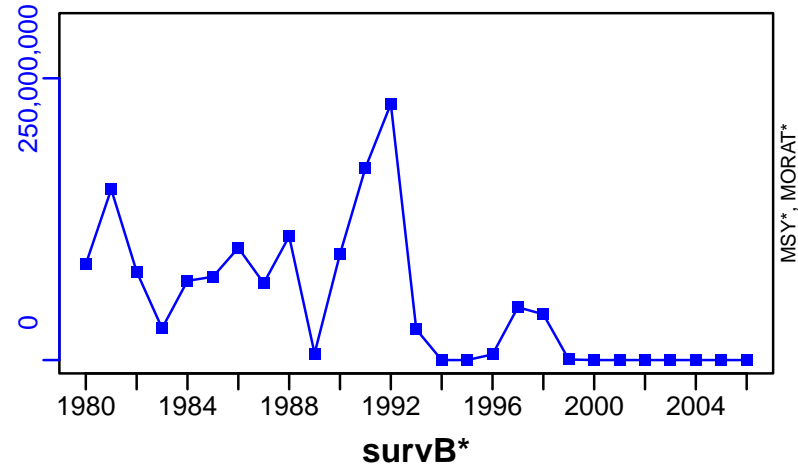
R-E00 (1980-2006-COLLIE)



Pacific herring Prince William Sound [HERRPWS]

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

TAC*, Cpair*, Cadv*



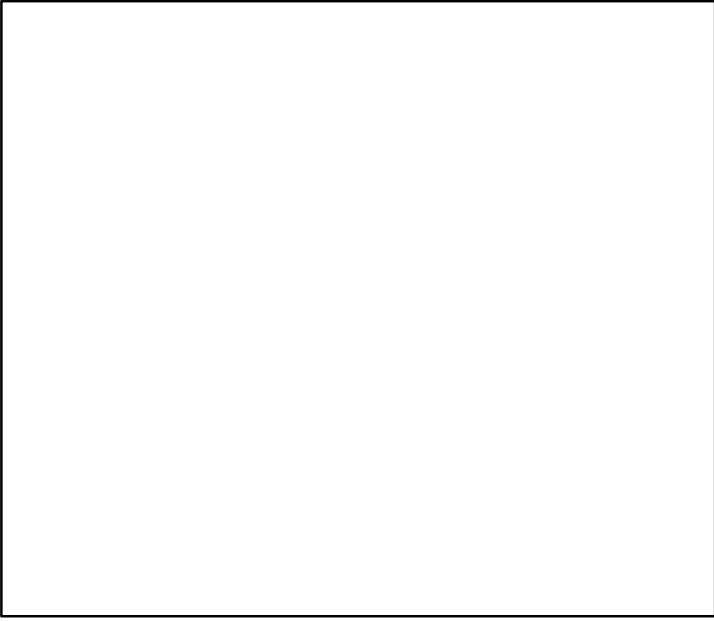
Pacific herring Sitka [HERRSITKA]

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

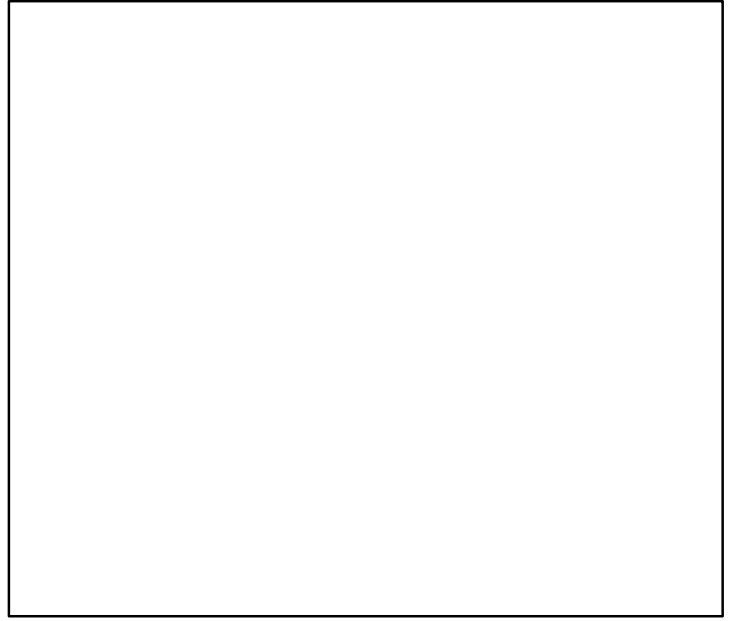
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

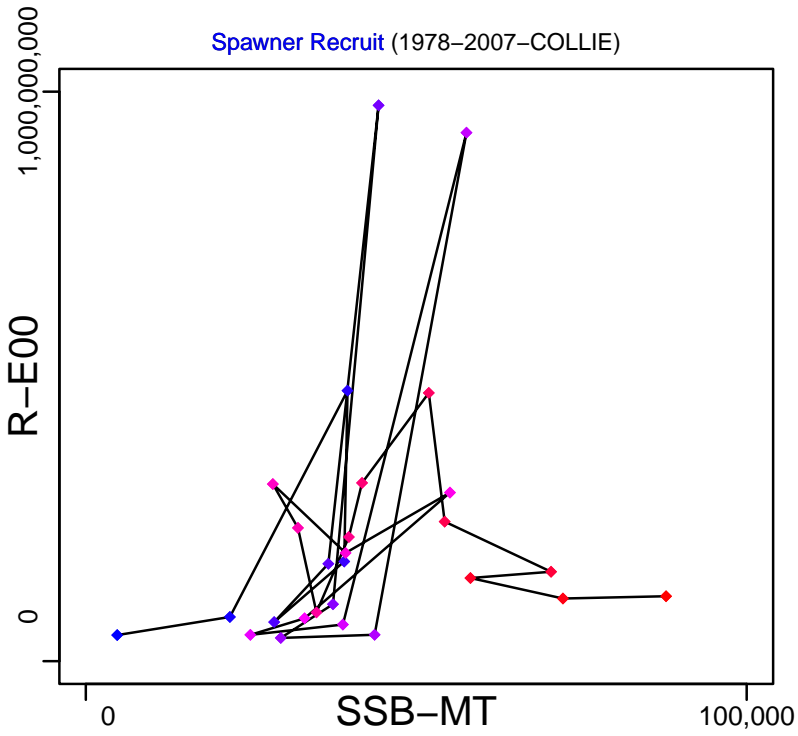
Kobe MSY*



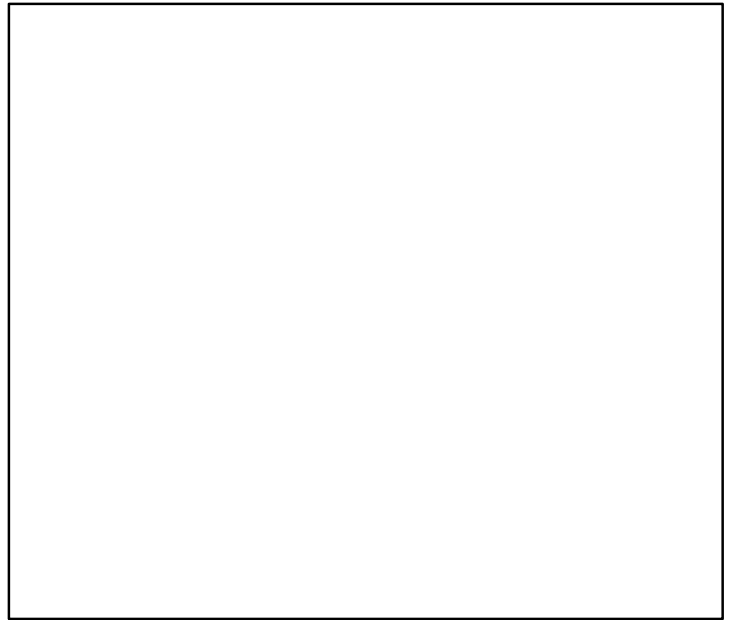
Kobe MGT*



Spawner Recruit (1978–2007–COLLIE)



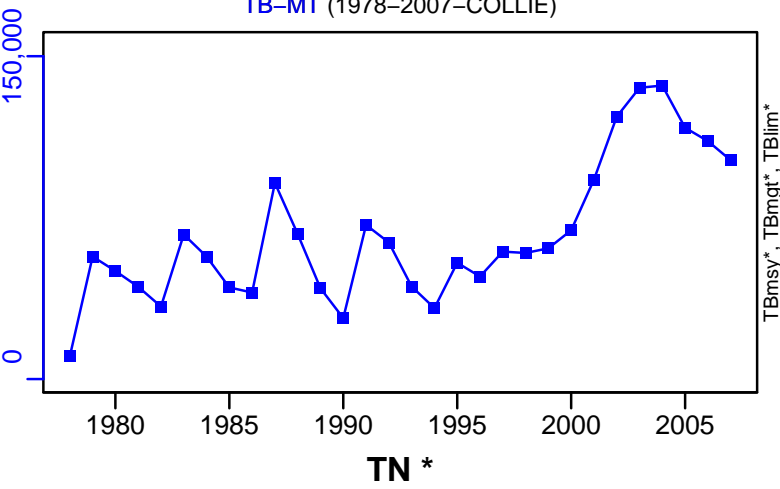
Production*



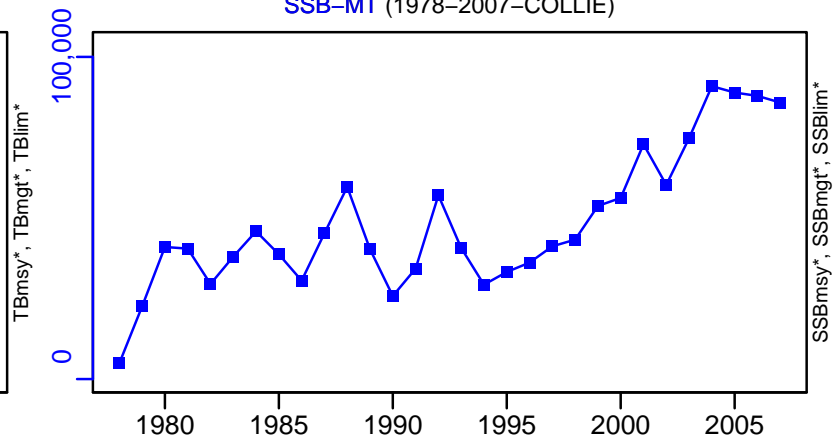
◆ Start Year ◆ End Year * No Data

Pacific herring Sitka [HERRSITKA]

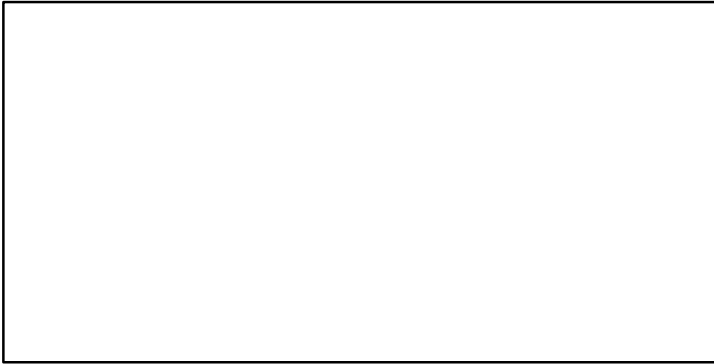
TB-MT (1978–2007–COLLIE)



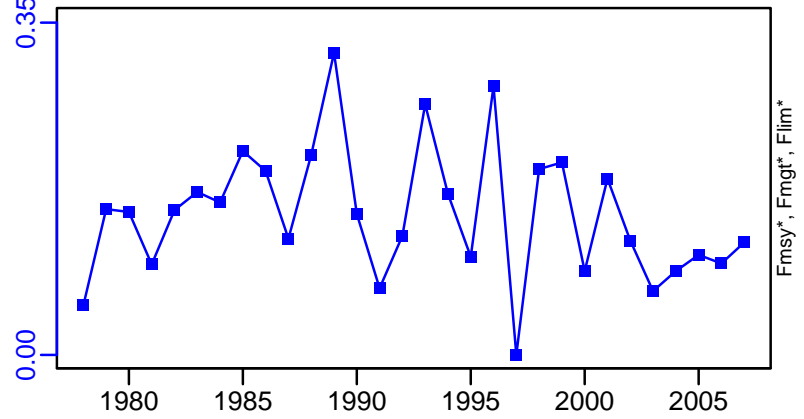
SSB-MT (1978–2007–COLLIE)



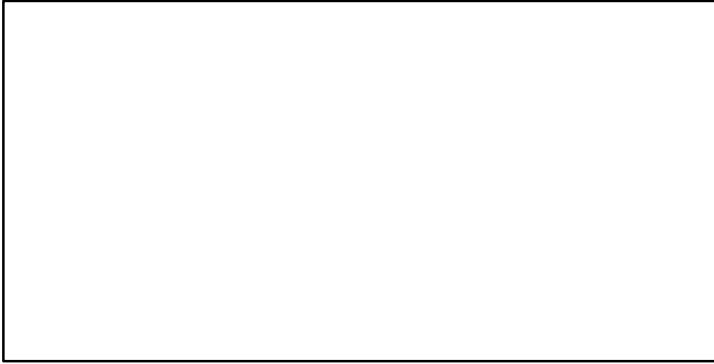
TN *



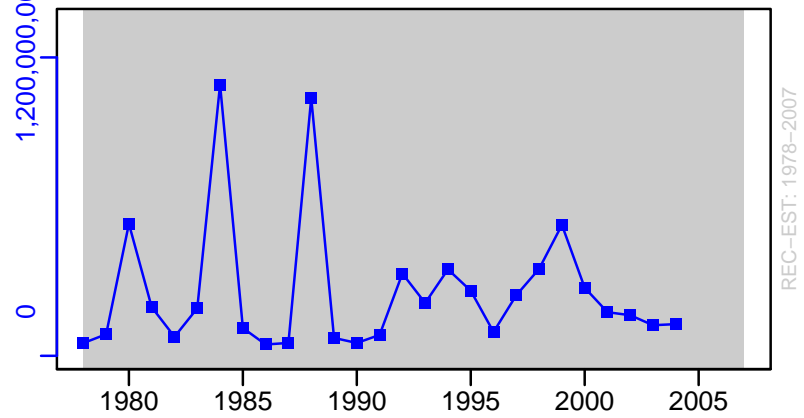
F-1/yr (1978–2007–COLLIE)



ER*



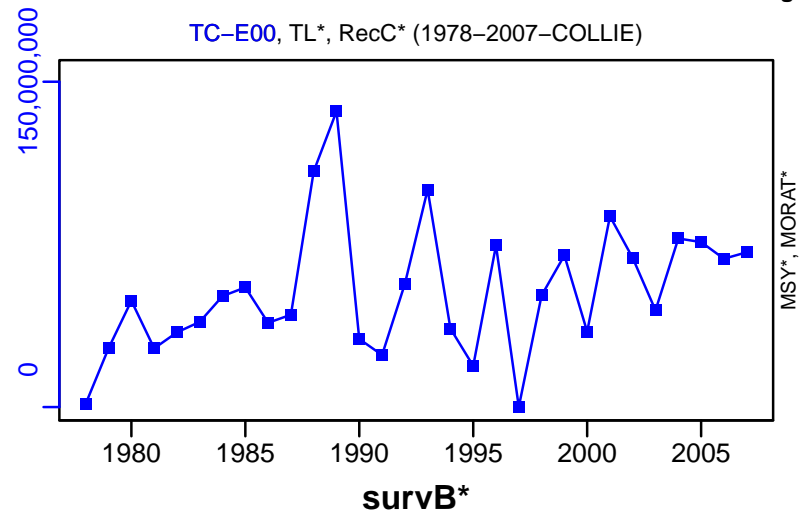
R-E00 (1978–2007–COLLIE)



Pacific herring Sitka [HERRSITKA]

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

TAC*, Cpair*, Cadv*



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

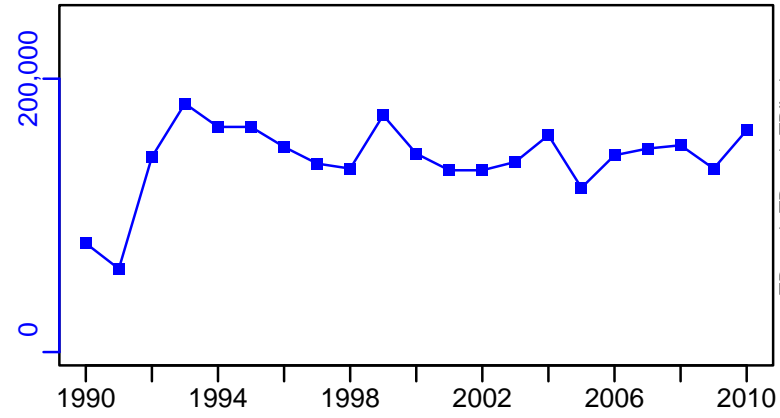
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Pacific herring Togiak District [HERRTOG]

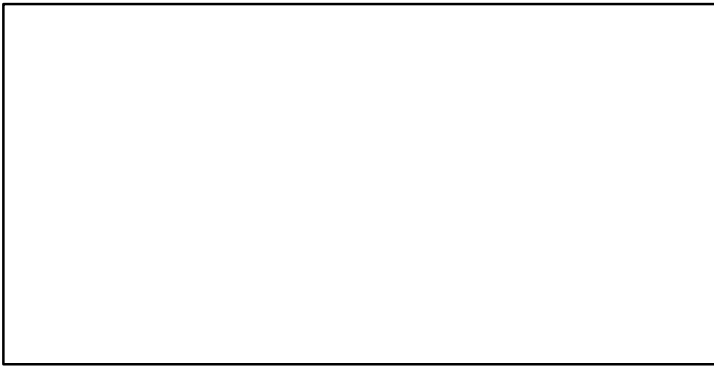
TB-MT (1990-2010-HIVELY)

SSB*



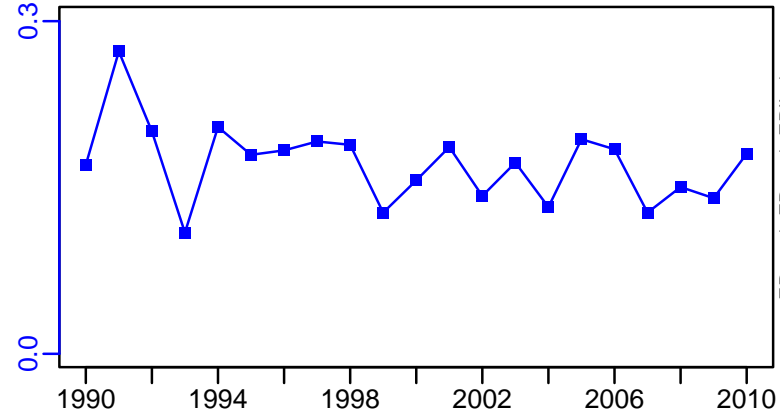
TN *

F*



ER-ratio (1990-2010-HIVELY)

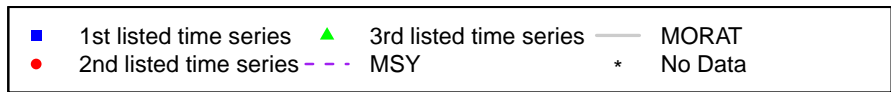
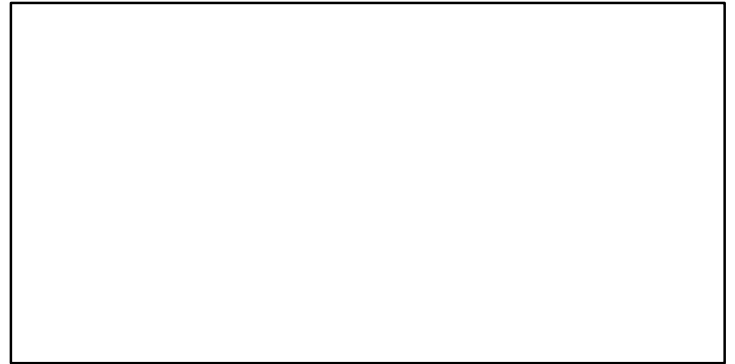
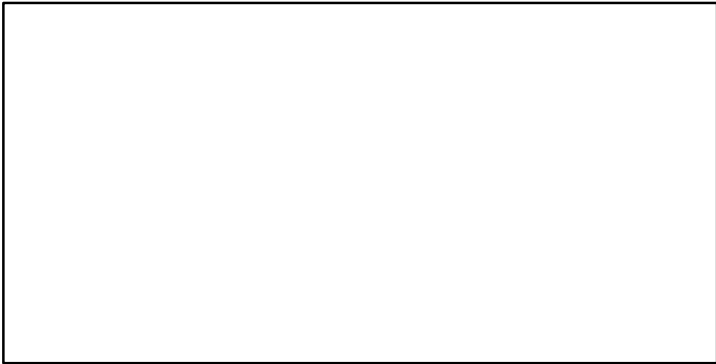
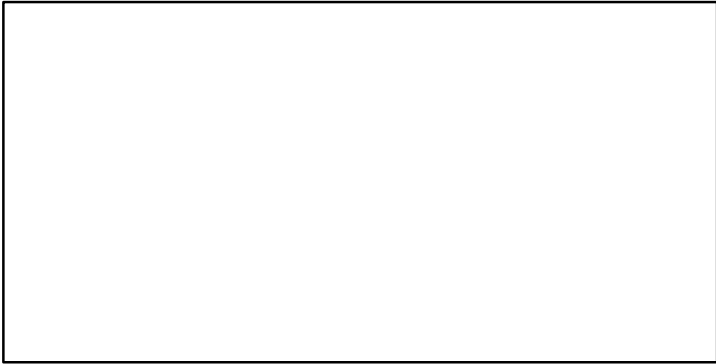
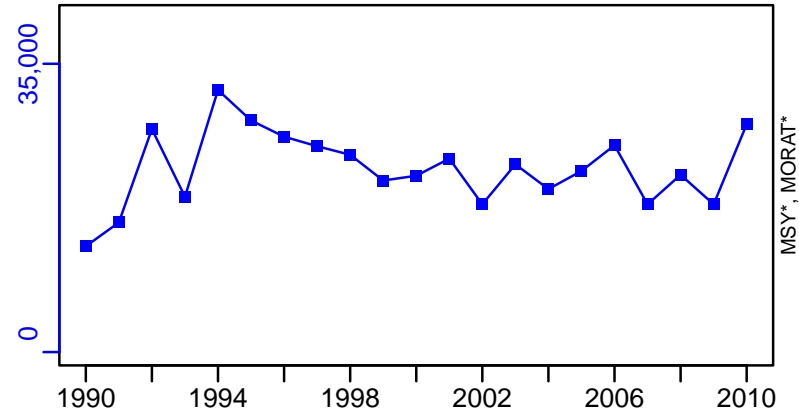
Recruits*



Pacific herring Togiak District [HERRTOG]

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

TAC*, Cpair*, Cadv*



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

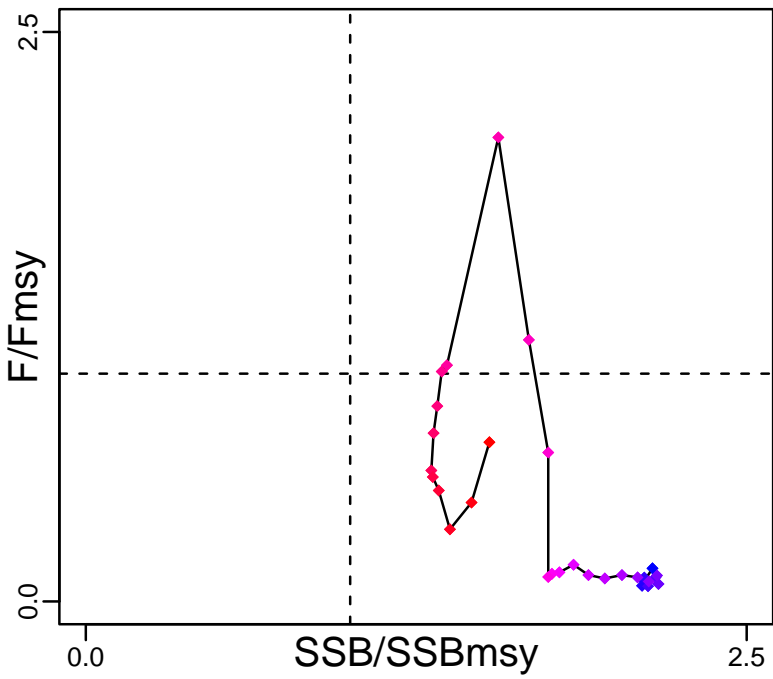
Metadata	
Scientific Name	Atheresthes evermanni
Current Assess ID	AFSC-KMFLOUNBSAI-1991-2020-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2015, 2018, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	35,500
Fmsy	Fmsy-1/yr	2020	0.108
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.123
ERlim	-	-	-

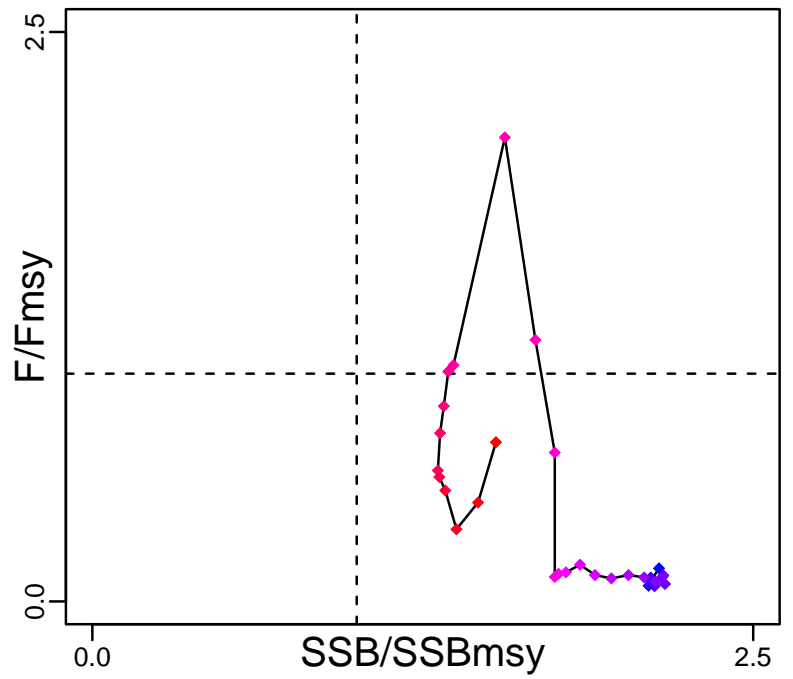
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	168,000	Both	2+
SSB	SSB-MT	2020	54,200	-	-
TN	-	-	-	-	-
R	R-E00	2020	11,700,000	-	2
F	F-1/yr	2020	0.076	-	-
ER	ER-ratio	2017	0.032	-	-
TC	TC-MT	2020	4490		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.527		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.699		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

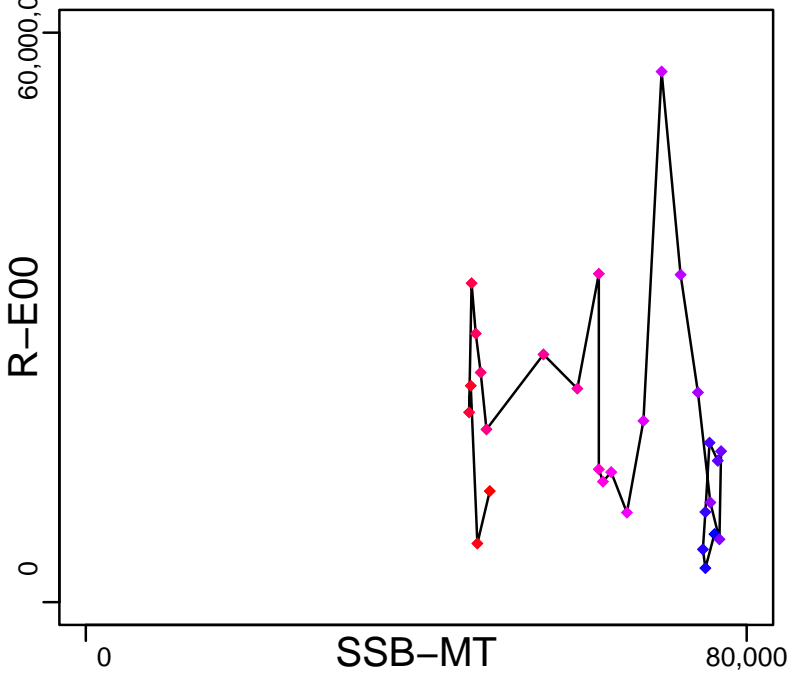
Kobe MSYpref (1991–2020–SISIMP2021–2)



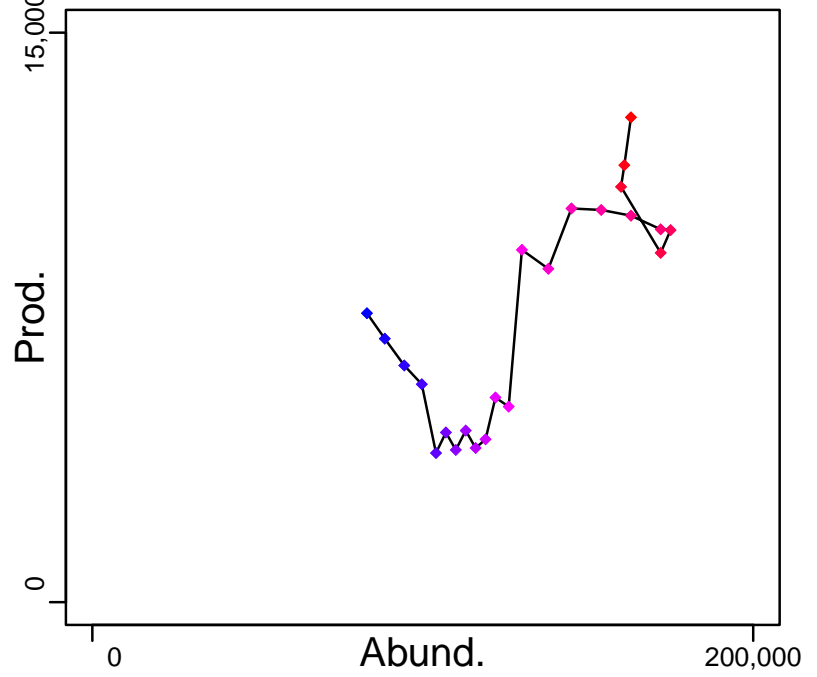
Kobe MGTpref (1991–2020–SISIMP2021–2)



Spawner Recruit (1991–2020–SISIMP2021–2)



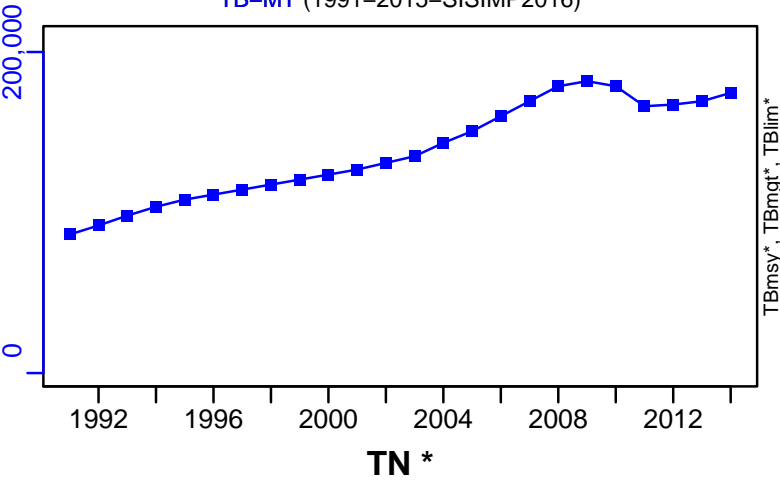
Production (1991–2015–SISIMP2016)



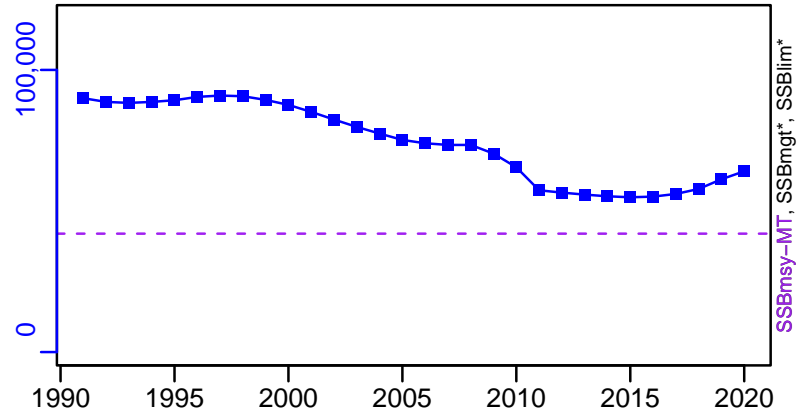
◆ Start Year ◆ End Year * No Data

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

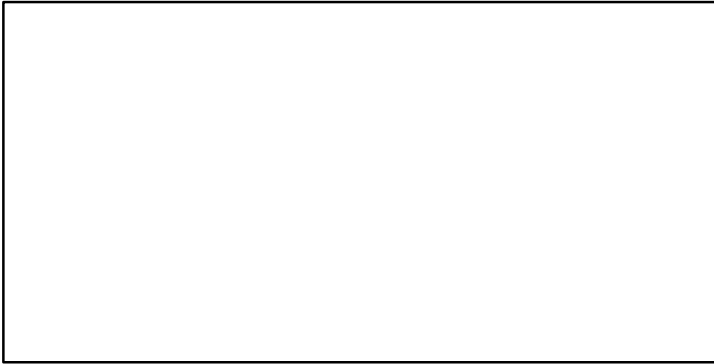
TB-MT (1991–2015–SISIMP2016)



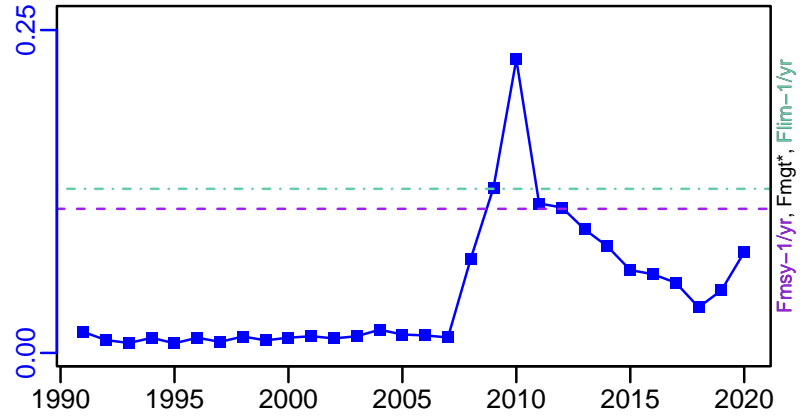
SSB-MT (1991–2020–SISIMP2021–2)



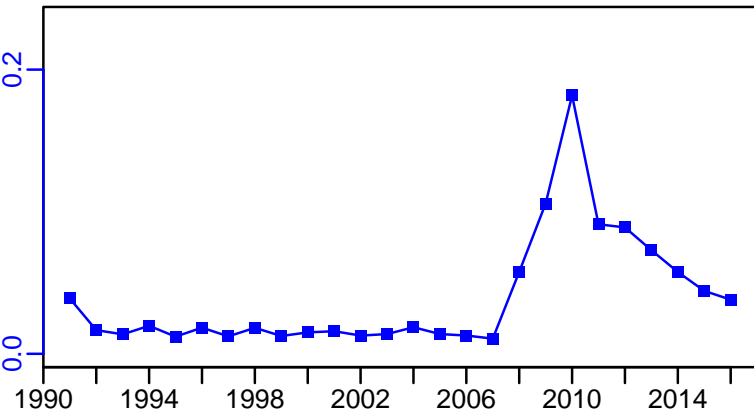
TN *



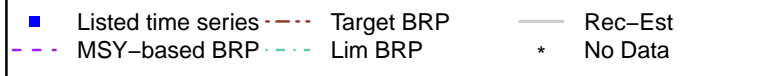
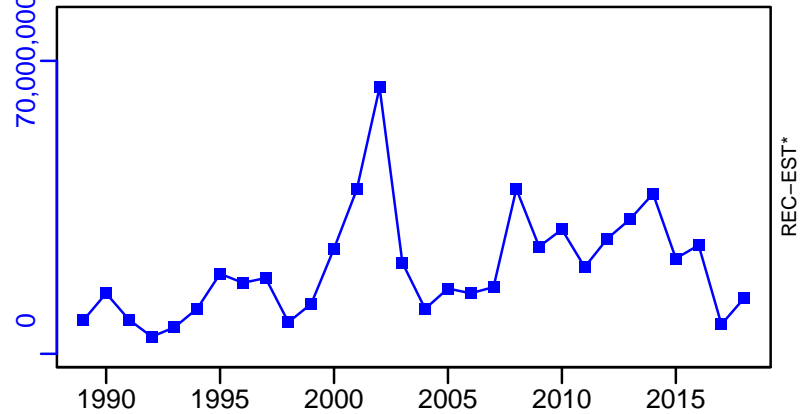
F-1/yr (1991–2020–SISIMP2021–2)



ER-ratio (1990–2017–SISIMP2021)



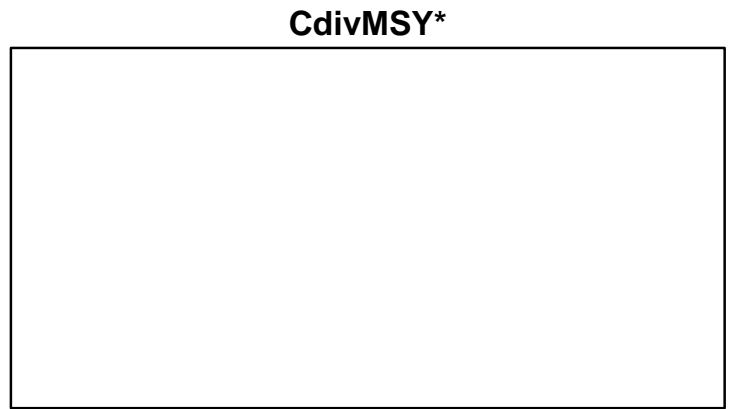
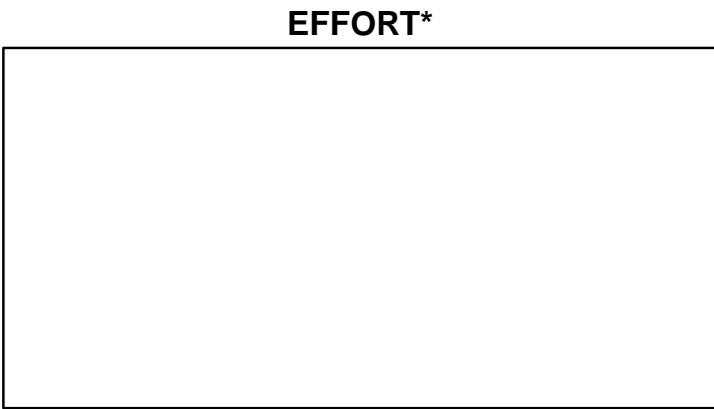
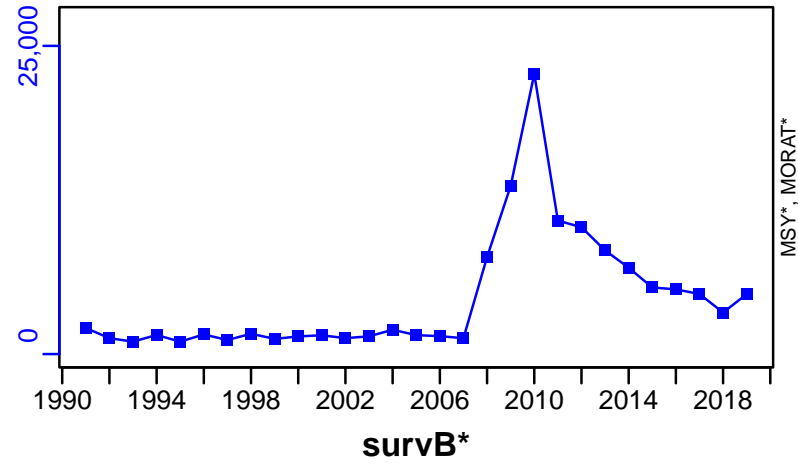
R-E00 (1991–2020–SISIMP2021–2)



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

TC-MT, TL*, RecC* (1991-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*

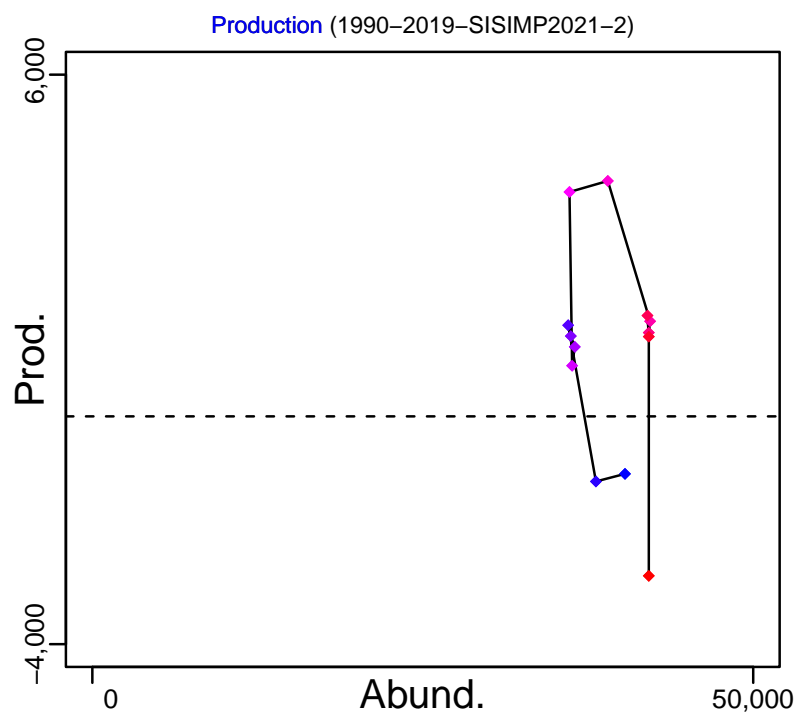


Longnose skate Gulf of Alaska [LNOSESKAGA]

Metadata	
Scientific Name	Raja rhina
Current Assess ID	AFSC-LNOSESKAGA-1990-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2019

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	TB-MT	2019	34,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2019	0.024	-	-
TC	TC-MT	2019	914		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

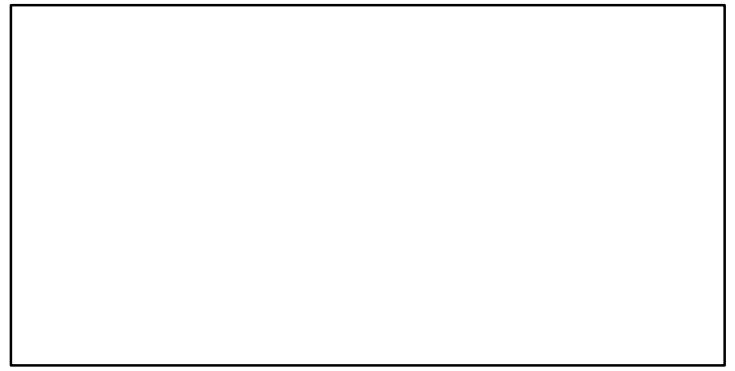
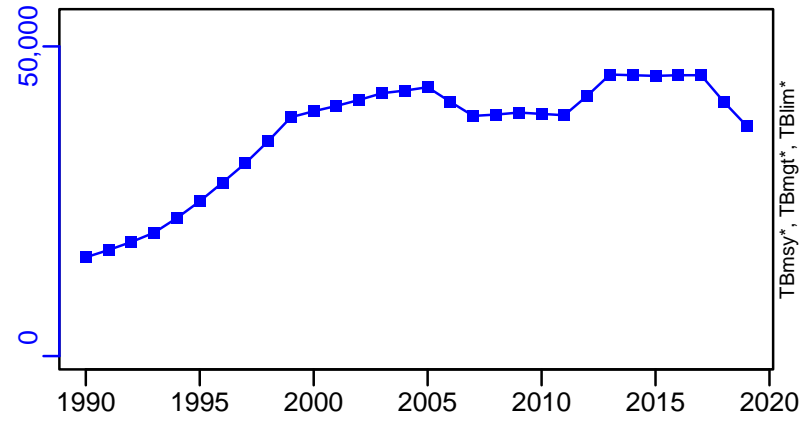
Kobe MSY***Kobe MGT*****Spawner Recruit***

◆ Start Year ◆ End Year * No Data

Longnose skate Gulf of Alaska [LNOSESKAGA]

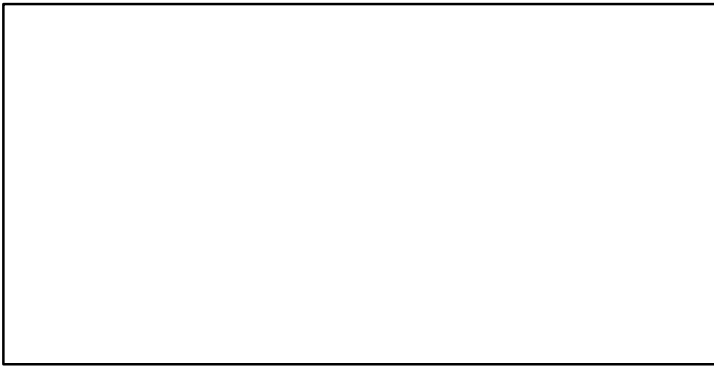
TB-MT (1990-2019-SISIMP2021-2)

SSB*



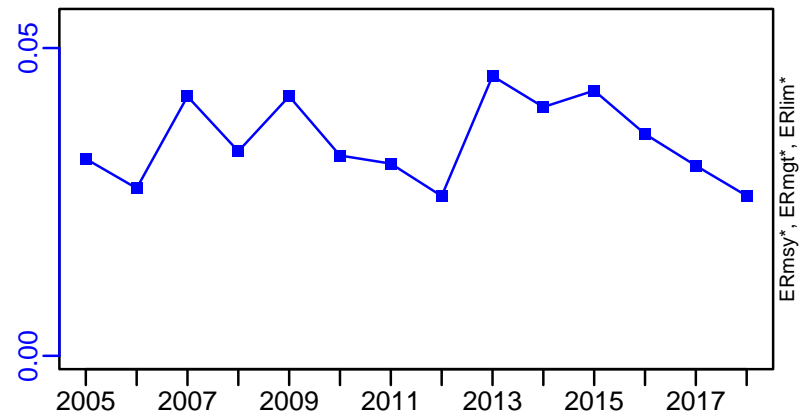
TN *

F*



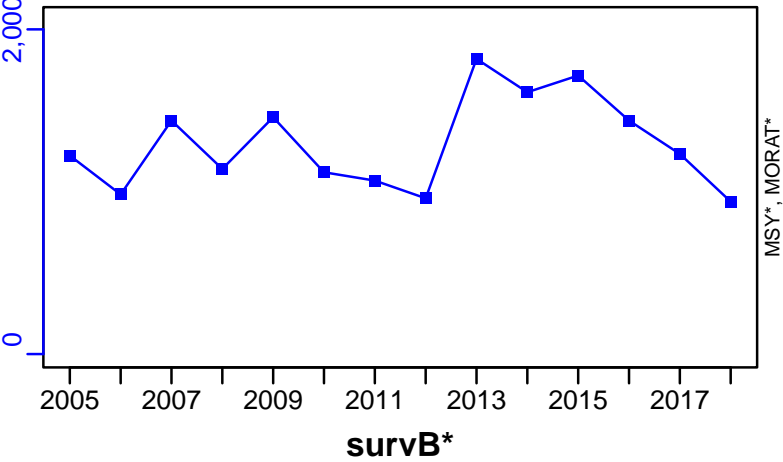
ER-calc-ratio (1990-2019-SISIMP2021-2)

Recruits*



Longnose skate Gulf of Alaska [LNOSESKAGA]

TC-MT, TL*, RecC* (1990-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

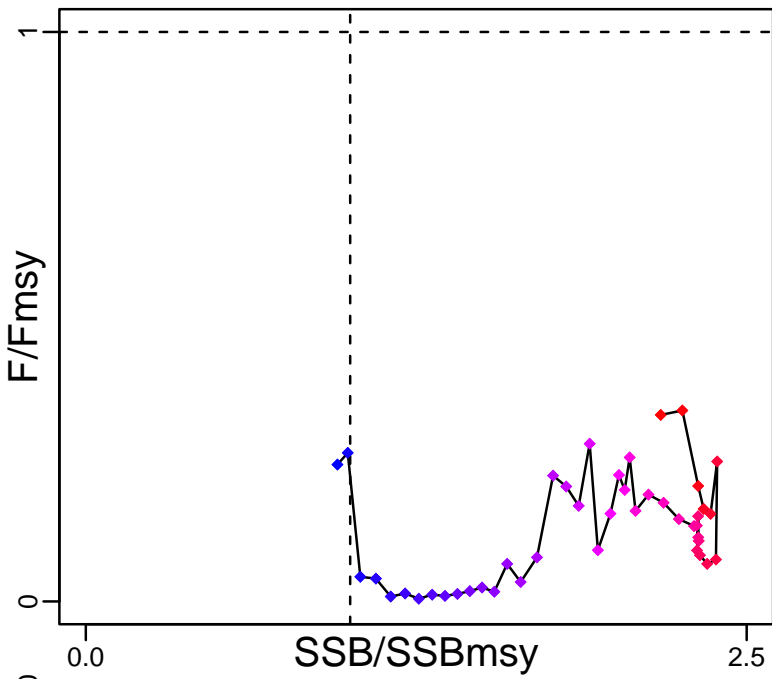
Metadata	
Scientific Name	Sebastes polypsinis
Current Assess ID	AFSC-NROCKBSAI-1974-2021-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2016, 2017, 2018, 2021, 2015,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

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

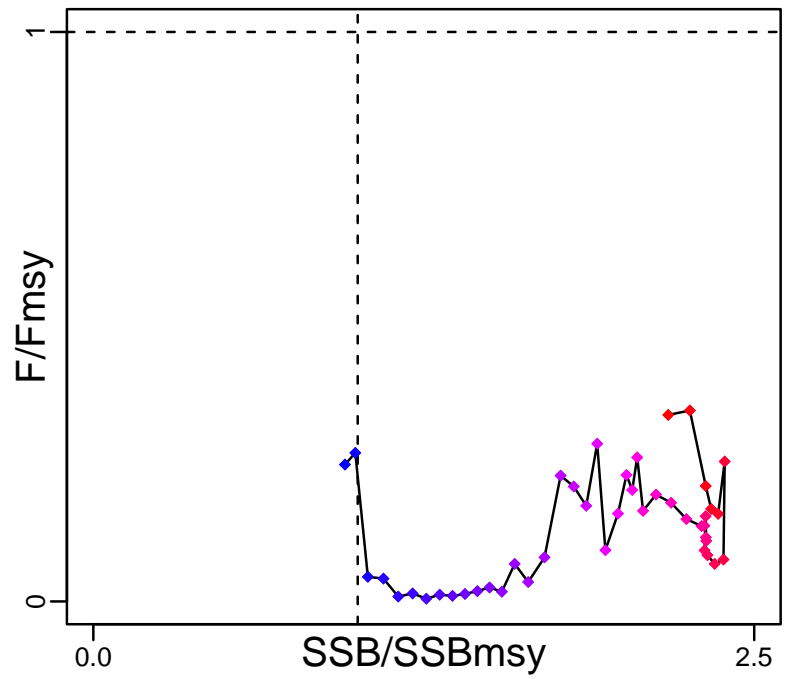
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	220,000	-	3+
SSB	SSB-MT	2021	125,932	-	-
TN	-	-	-	-	-
R	R-E00	2021	63,498,500	-	3
F	F-1/yr	2021	0.028	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2021	8443		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.095		
F/Fmsy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

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

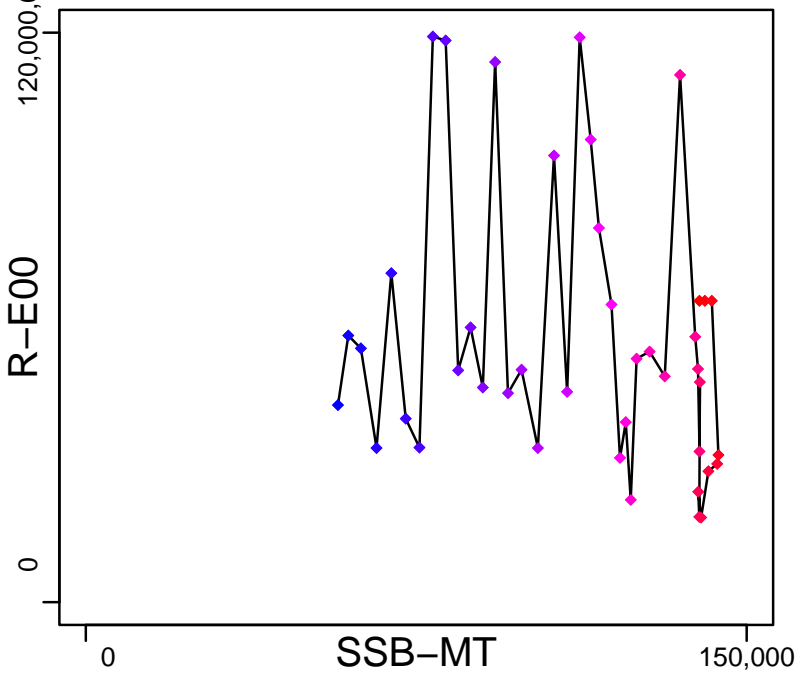
Kobe MSYpref (1974–2021–SISIMP2022)



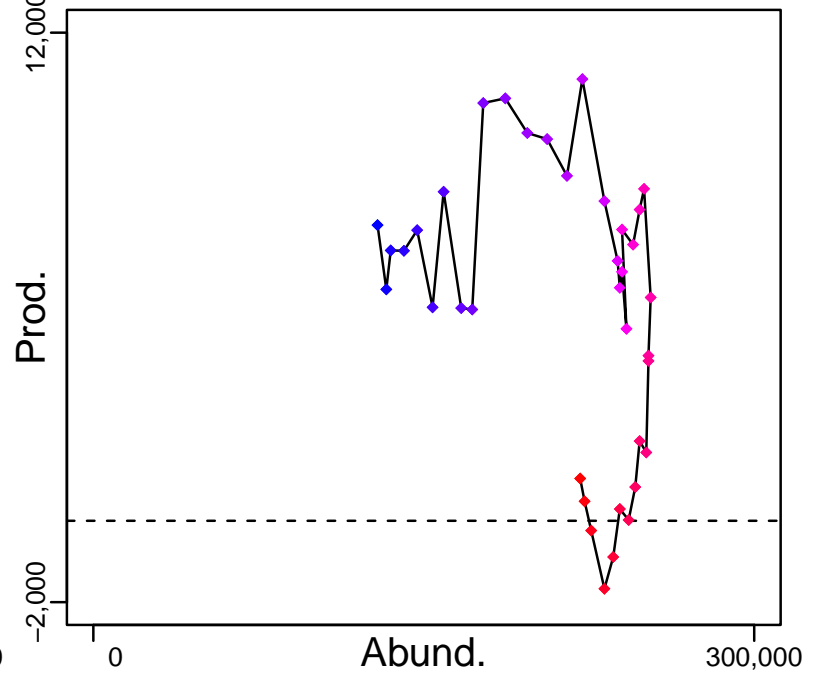
Kobe MGTpref (1974–2021–SISIMP2022)



Spawner Recruit (1974–2021–SISIMP2022)



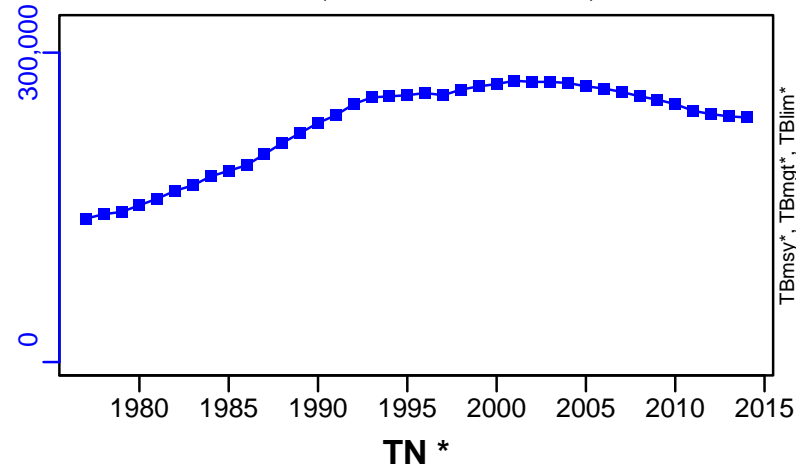
Production (1977–2015–SISIMP2016)



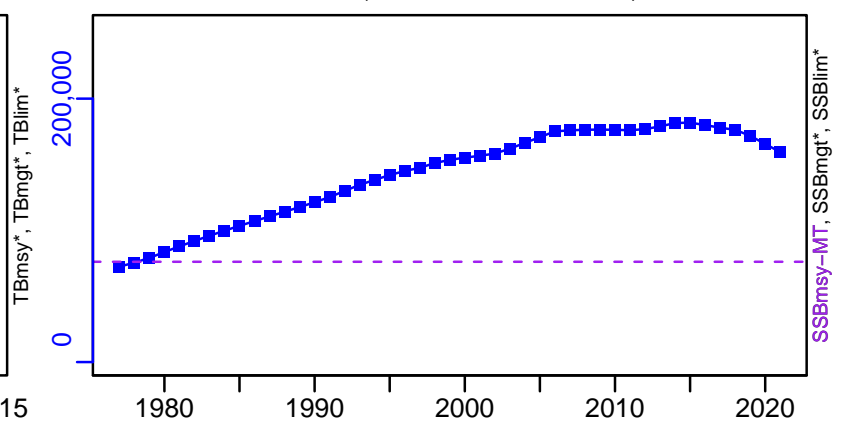
◆ Start Year ◆ End Year * No Data

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

TB-MT (1977–2015–SISIMP2016)



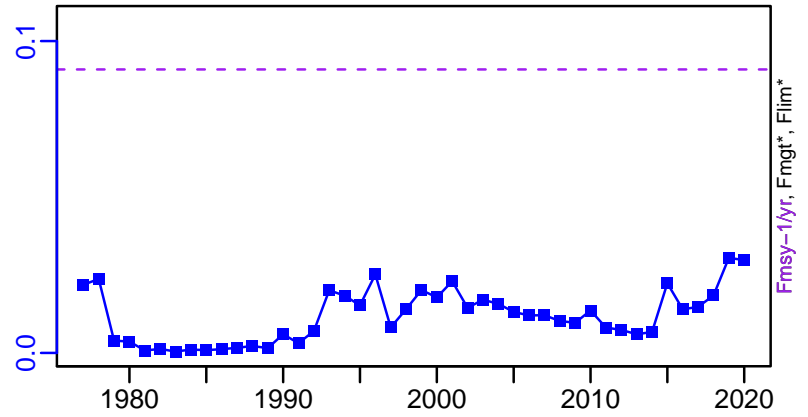
SSB-MT (1974–2021–SISIMP2022)



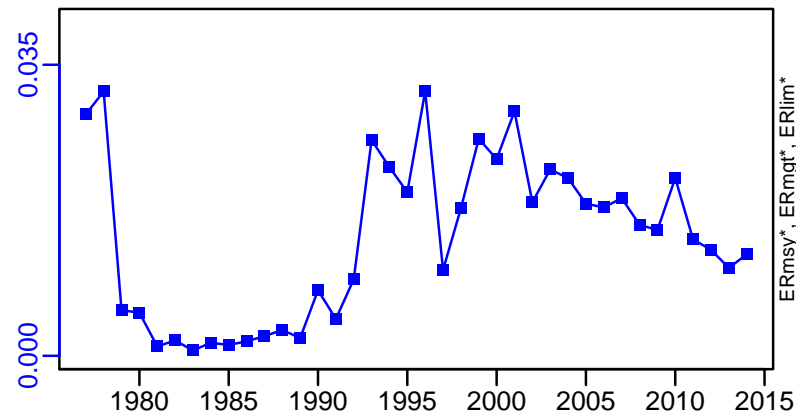
TN *



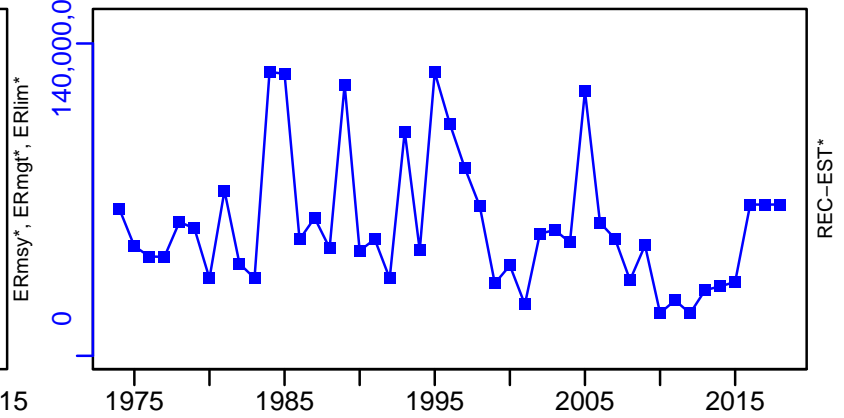
F-1/yr (1974–2021–SISIMP2022)



ER-calc-ratio (1977–2015–SISIMP2016)



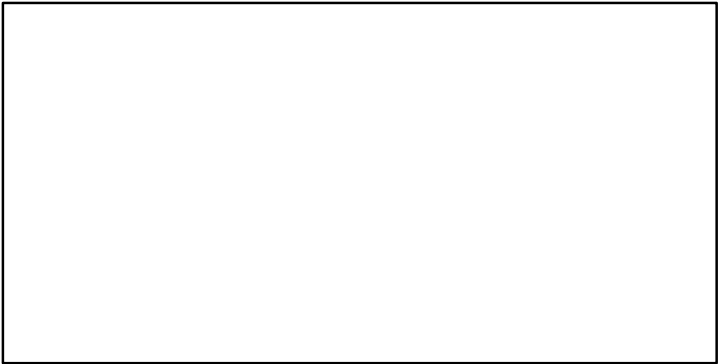
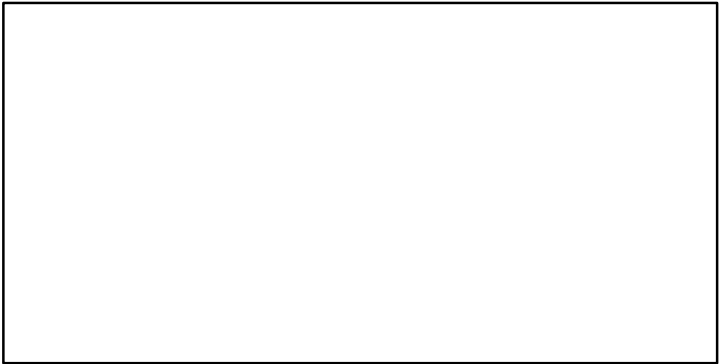
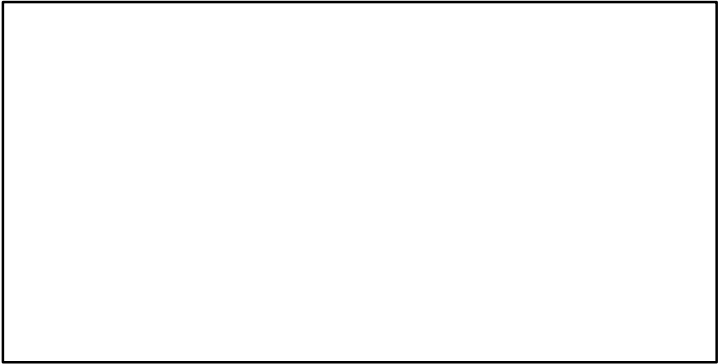
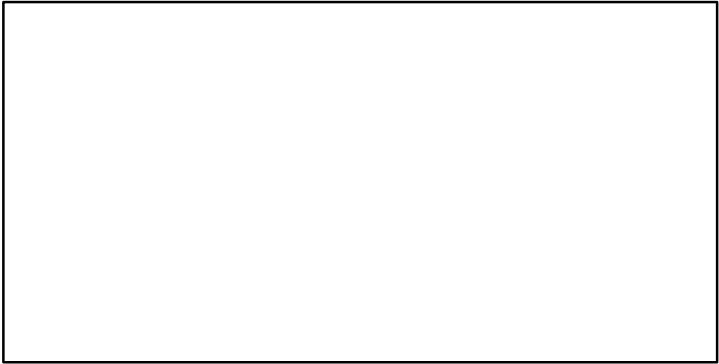
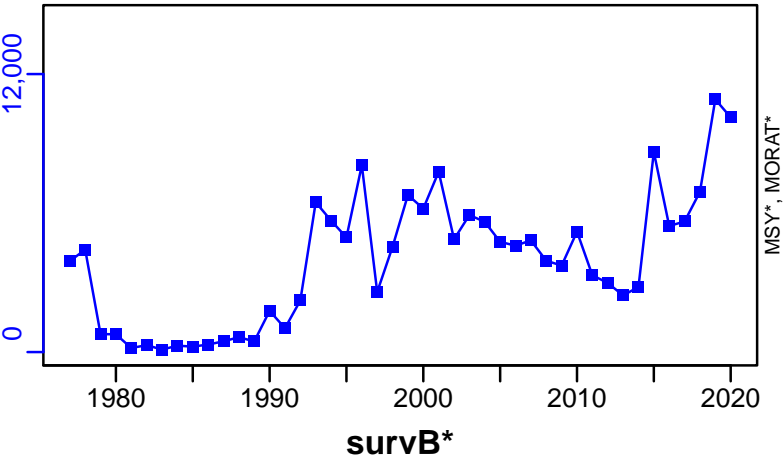
R-E00 (1974–2021–SISIMP2022)



Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

TC-MT, TL*, RecC* (1974-2021-SISIMP2022)

TAC*, Cpair*, Cadv*



Northern rockfish Gulf of Alaska [NROCKGA]

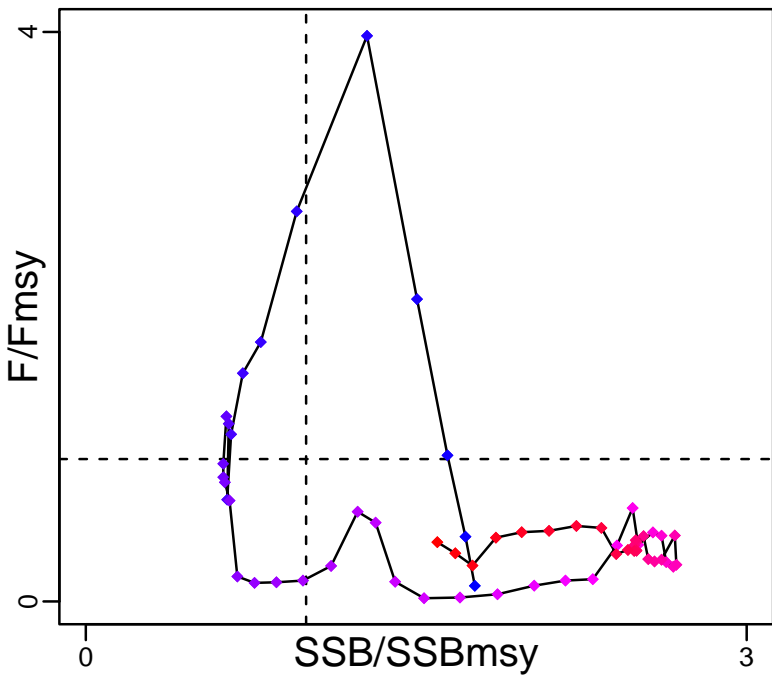
Metadata	
Scientific Name	Sebastes polyspinis
Current Assess ID	AFSC-NROCKGA-1961-2020-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015, 2018, 2020

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

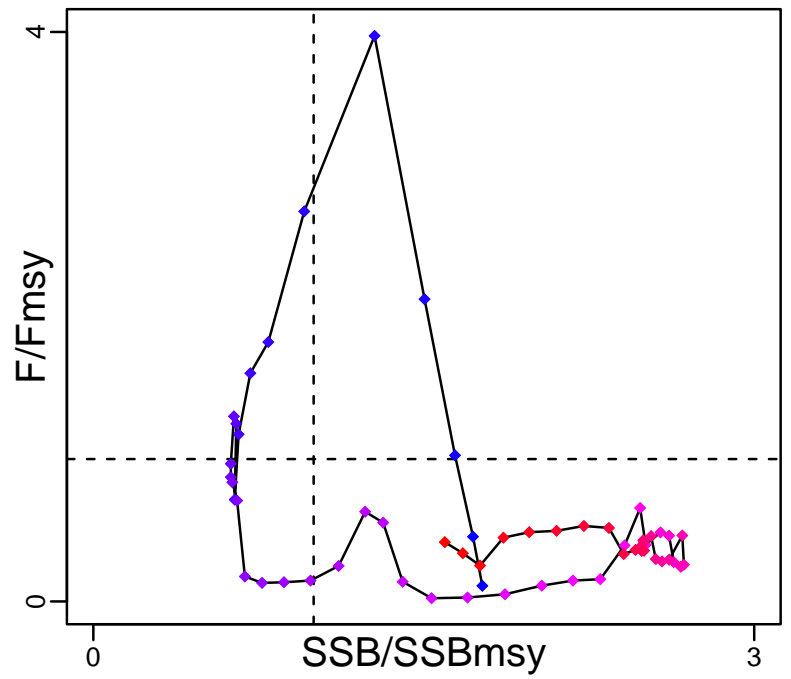
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	81,900	-	2+
SSB	SSB-MT	2020	42,600	-	-
TN	-	-	-	-	-
R	R-E00	2020	10,500,000	-	2
F	F-1/yr	2020	0.03	-	-
ER	ER-ratio	2017	0.054	-	-
TC	TC-MT	2020	2750		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.603		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020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

Northern rockfish Gulf of Alaska [NROCKGA]

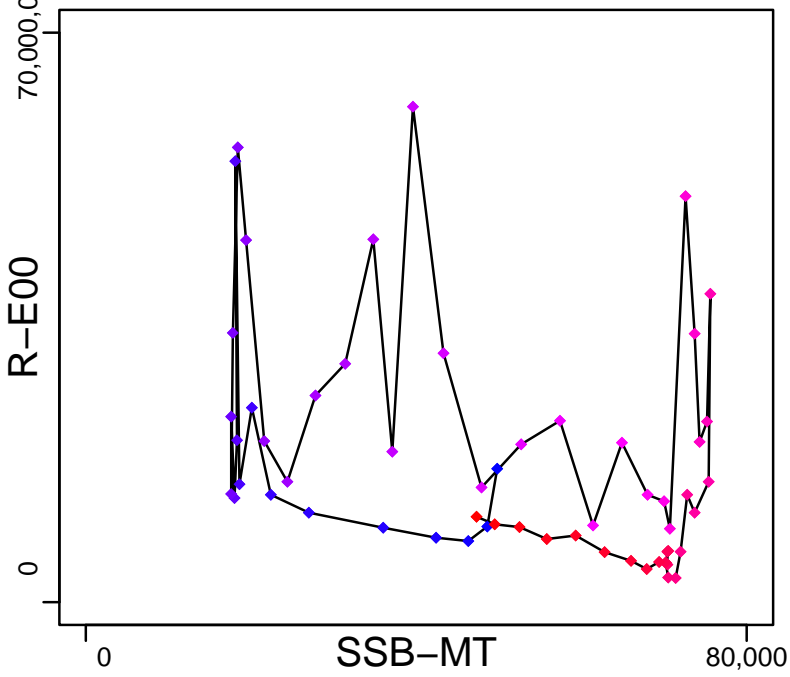
Kobe MSYpref (1961–2020–SISIMP2021–2)



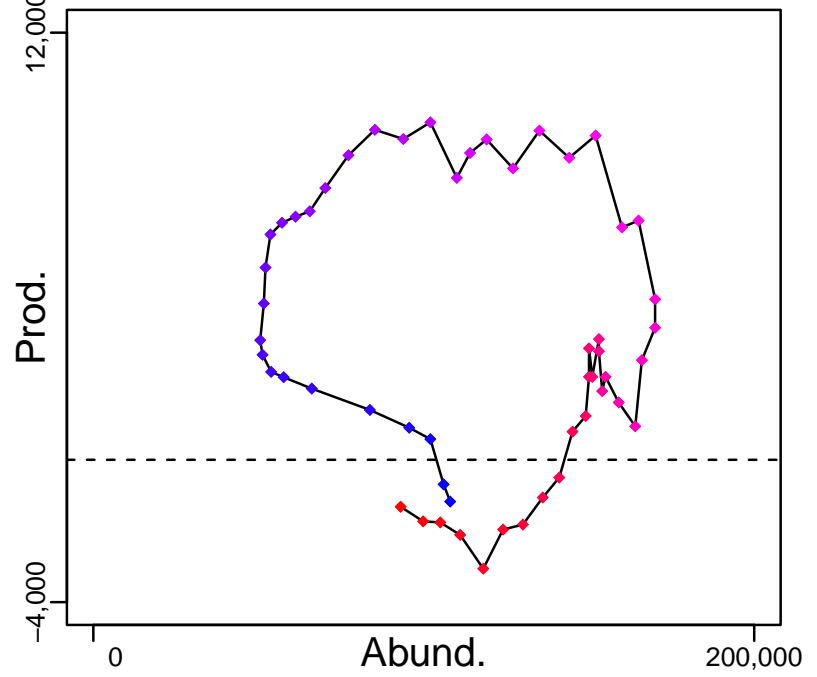
Kobe MGTpref (1961–2020–SISIMP2021–2)



Spawner Recruit (1961–2020–SISIMP2021–2)



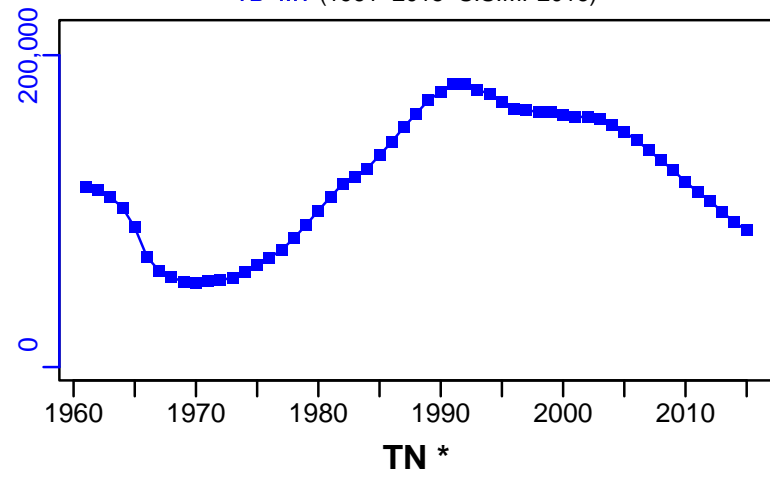
Production (1961–2015–SISIMP2016)



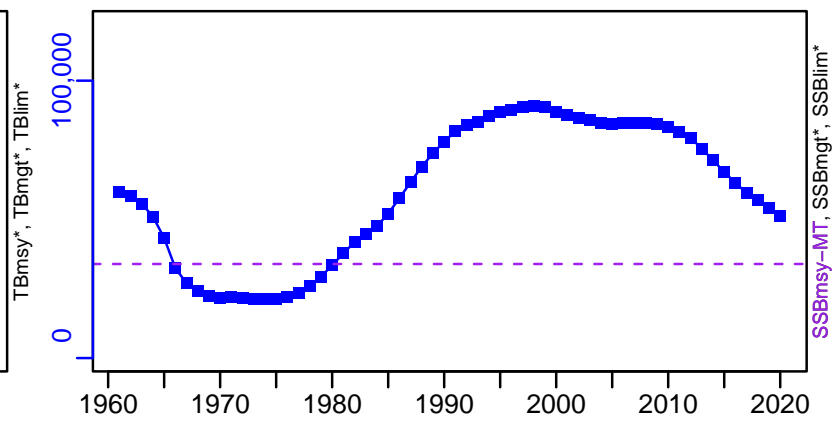
◆ Start Year ◆ End Year * No Data

Northern rockfish Gulf of Alaska [NROCKGA]

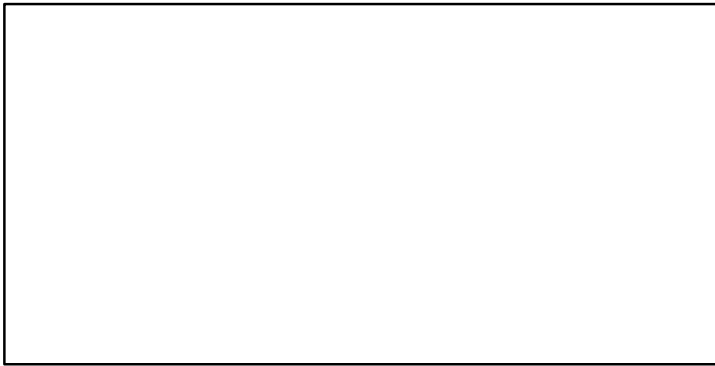
TB-MT (1961–2015–SISIMP2016)



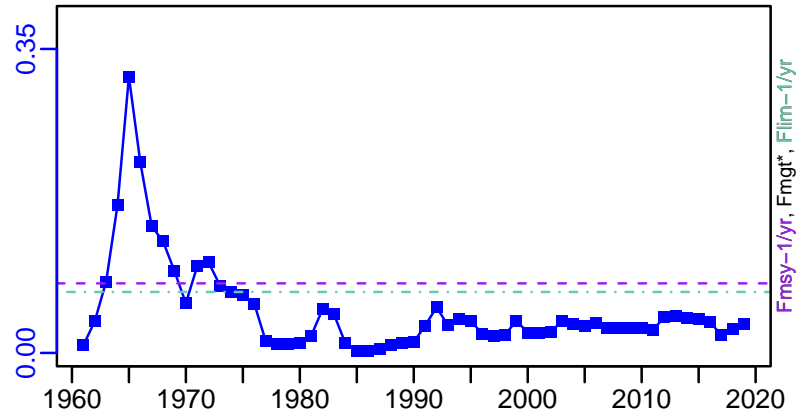
SSB-MT (1961–2020–SISIMP2021–2)



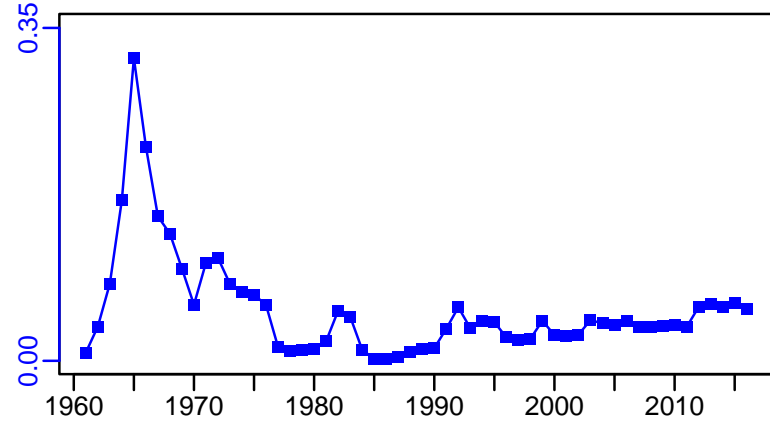
TN *



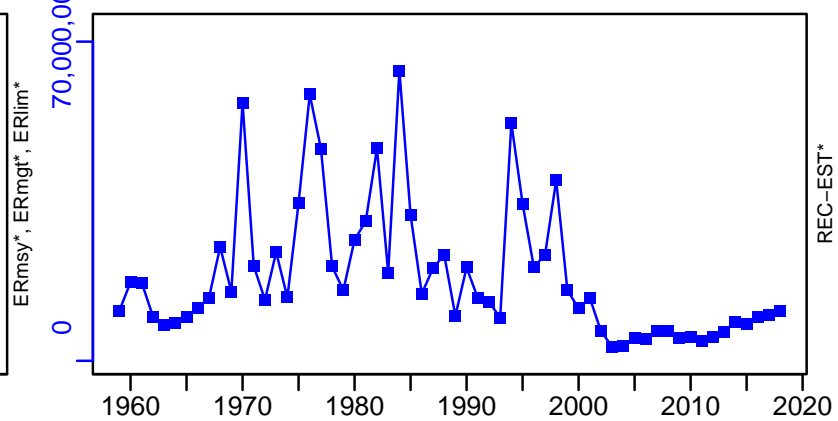
F-1/yr (1961–2020–SISIMP2021–2)



ER-ratio (1959–2017–SISIMP2021)

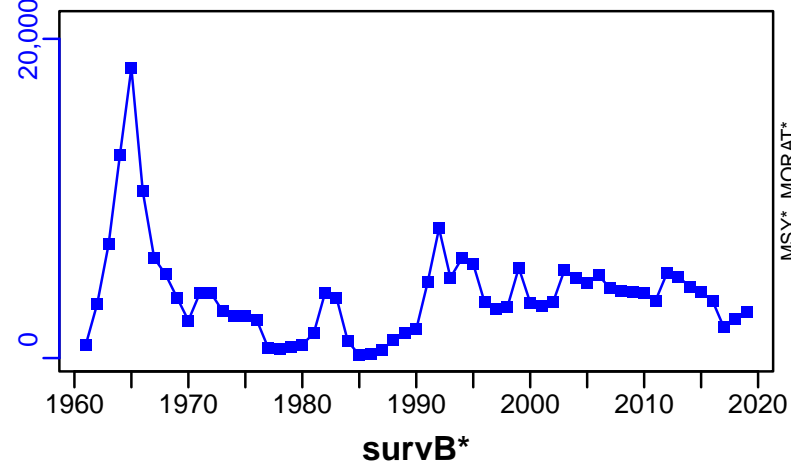


R-E00 (1961–2020–SISIMP2021–2)



Northern rockfish Gulf of Alaska [NROCKGA]

TC-MT, TL*, RecC* (1961-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



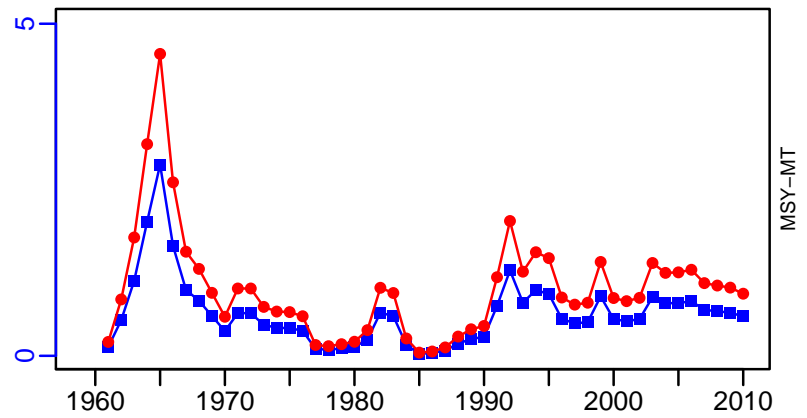
CPUE*



EFFORT*



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



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

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

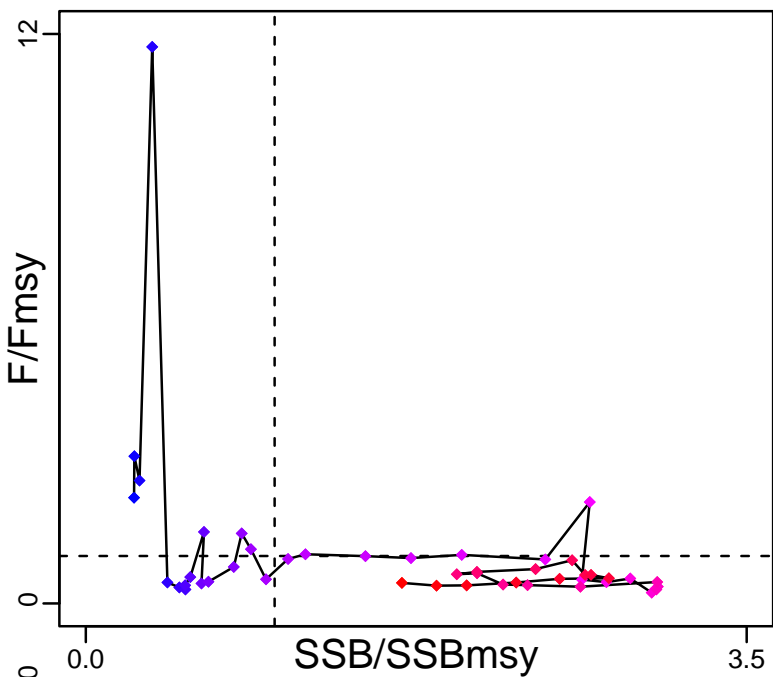
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEEBSAI-1974-2020-SISIMP2022
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2018, 2020, 2012, 2015, 2018, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	187,790
Fmsy	Fmsy-1/yr	2020	0.157
ERmsy	-	-	-
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	2020	0.278
ERlim	-	-	-

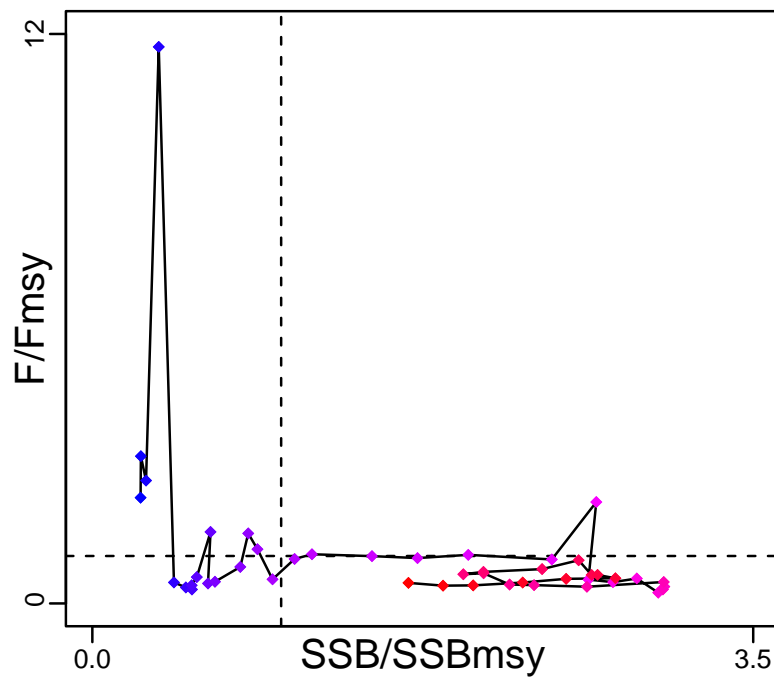
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,270,000	-	2+
SSB	SSB-MT	2020	314,380	Females	-
TN	-	-	-	-	-
R	R-E00	2020	471,095,001	-	1
F	F-1/yr	2020	0.068	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2020	25,514		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.674		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.433		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

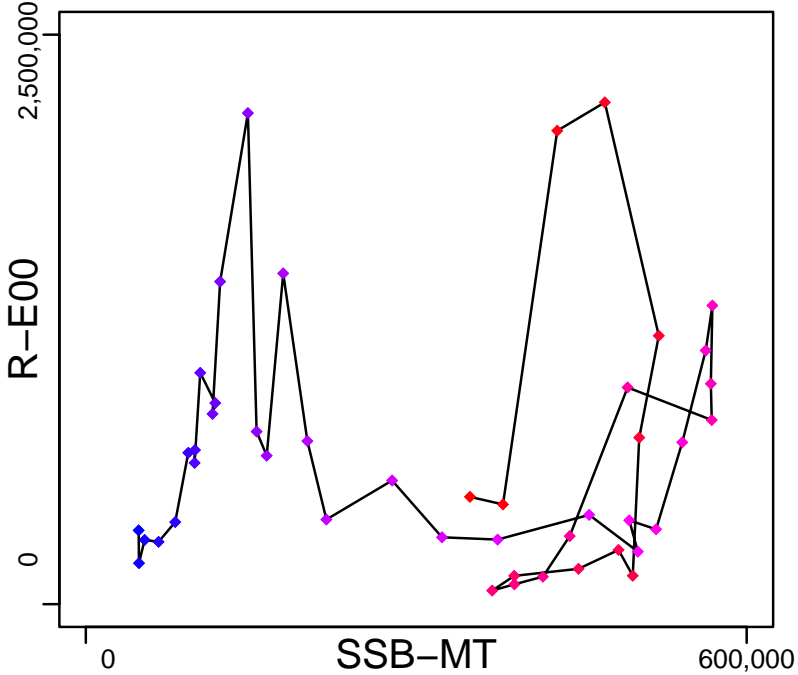
Kobe MSYpref (1974–2020–SISIMP2022)



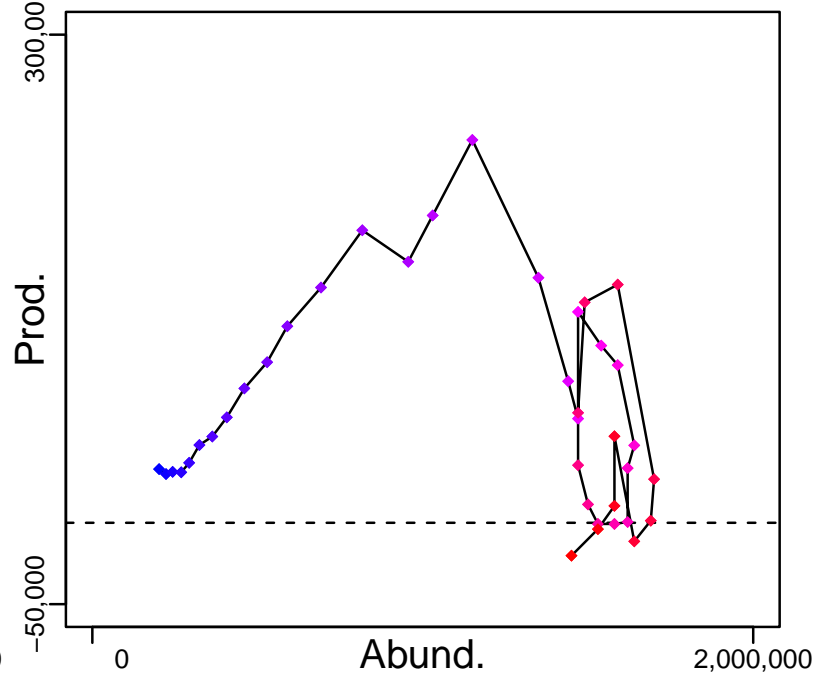
Kobe MGTpref (1974–2020–SISIMP2022)



Spawner Recruit (1974–2020–SISIMP2022)



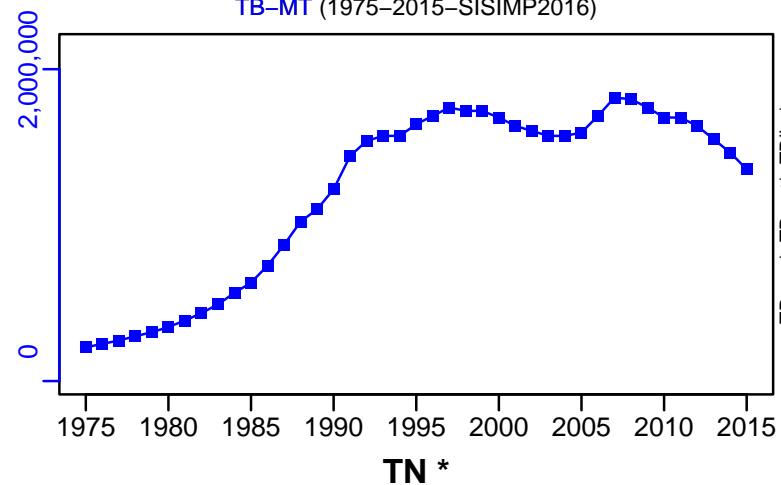
Production (1975–2015–SISIMP2016)



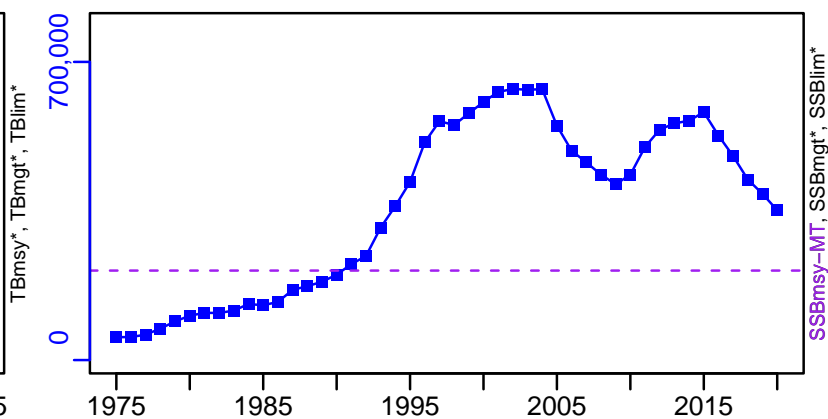
◆ Start Year ◆ End Year * No Data

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

TB-MT (1975–2015–SISIMP2016)



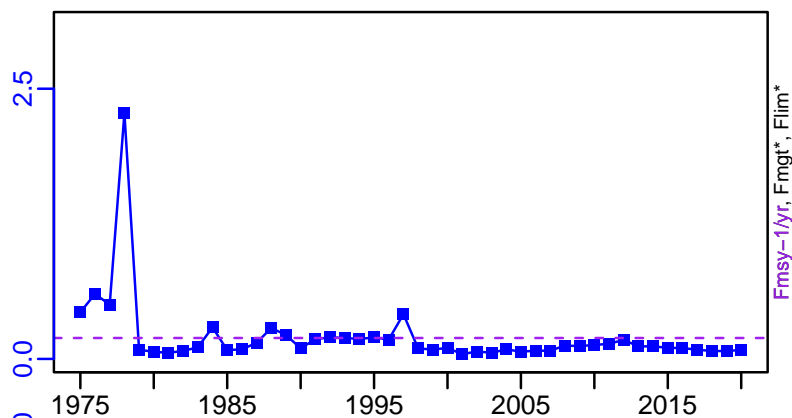
SSB-MT (1974–2020–SISIMP2022)



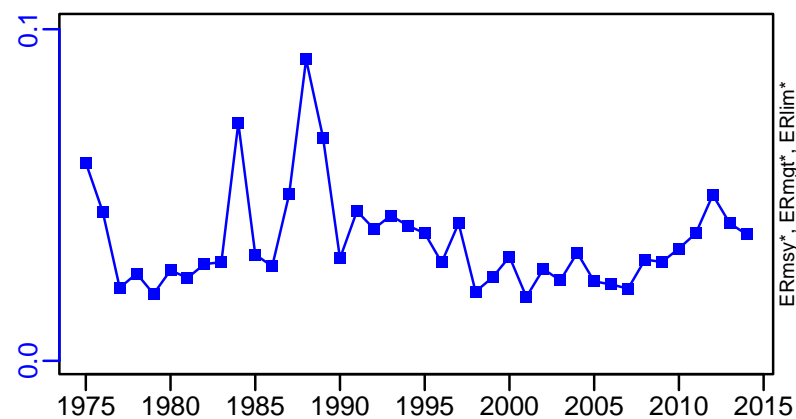
TN *



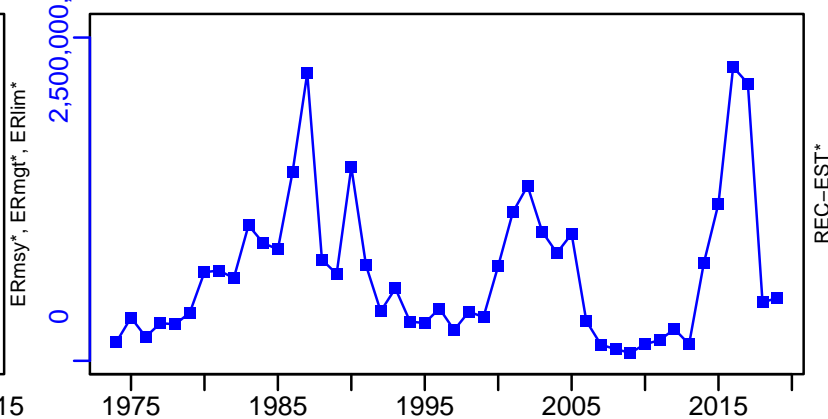
F-1/yr (1974–2020–SISIMP2022)



ER-calc-ratio (1975–2015–SISIMP2016)



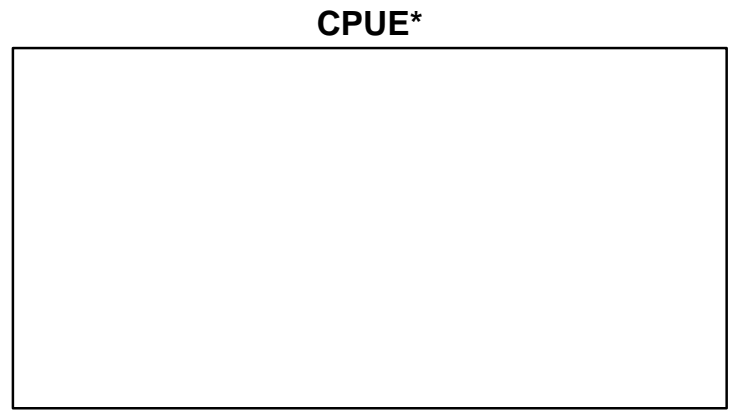
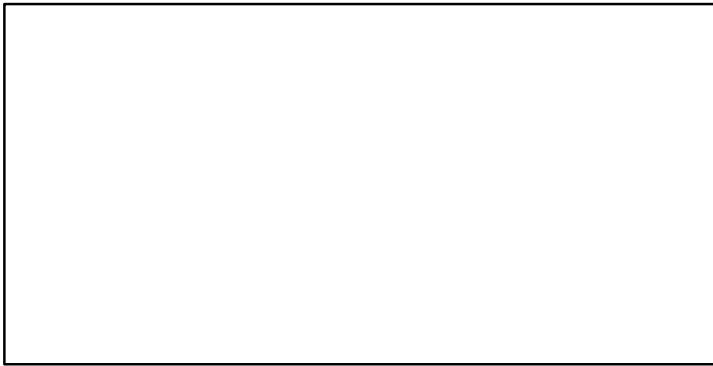
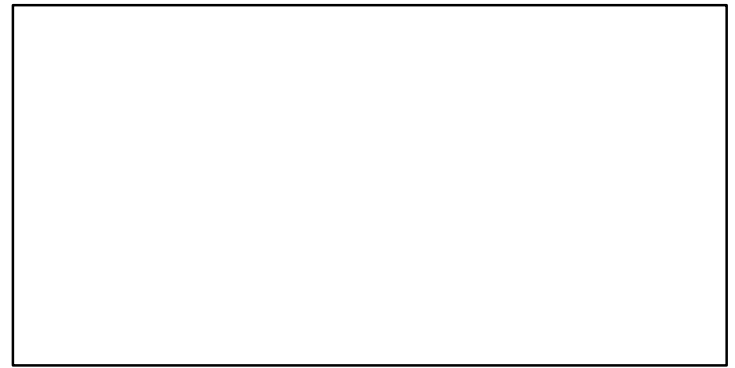
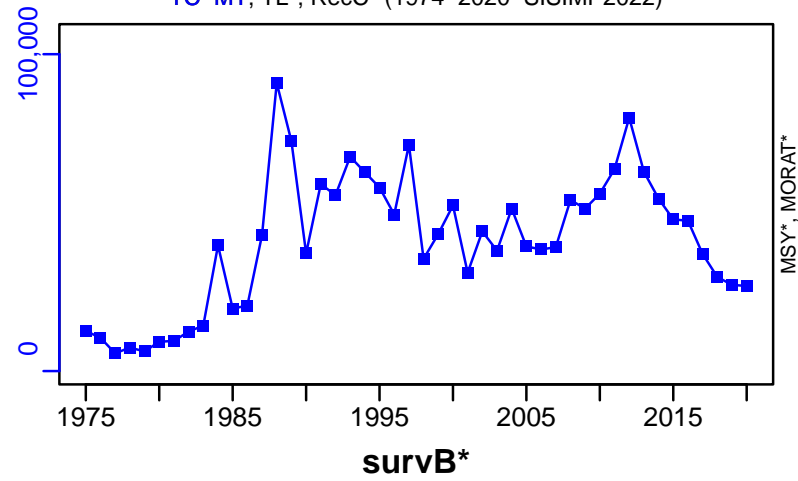
R-E00 (1974–2020–SISIMP2022)



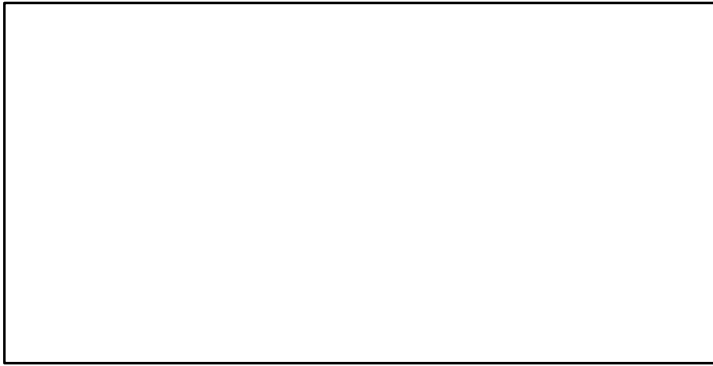
Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

TC-MT, TL*, RecC* (1974-2020-SISIMP2022)

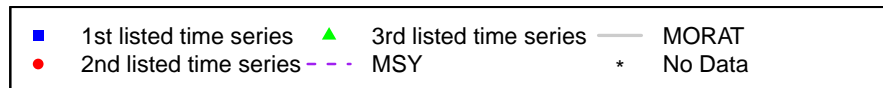
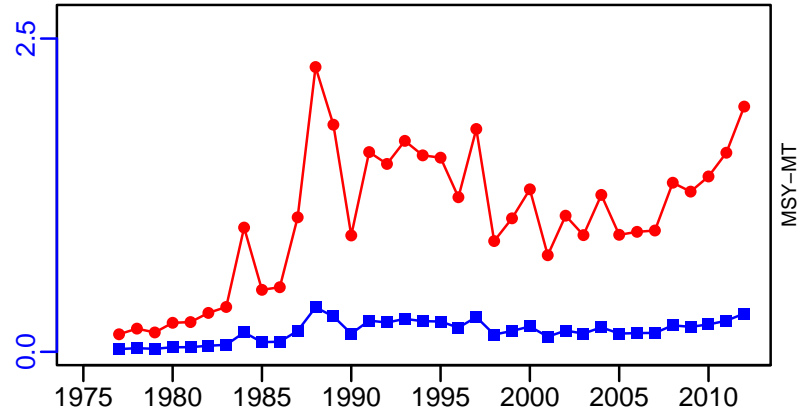
TAC*, Cpair*, Cadv*



EFFORT*



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



Northern rock sole Gulf of Alaska [NRSOLEGA]

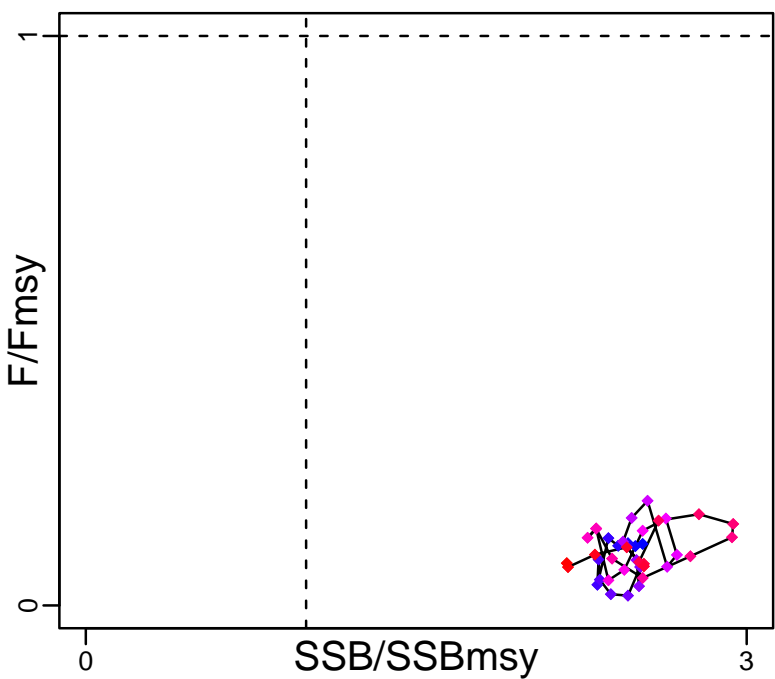
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEGA-1977-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	18,000
Fmsy	Fmsy-1/yr	2019	0.462
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2018	0.462
ERlim	-	-	-

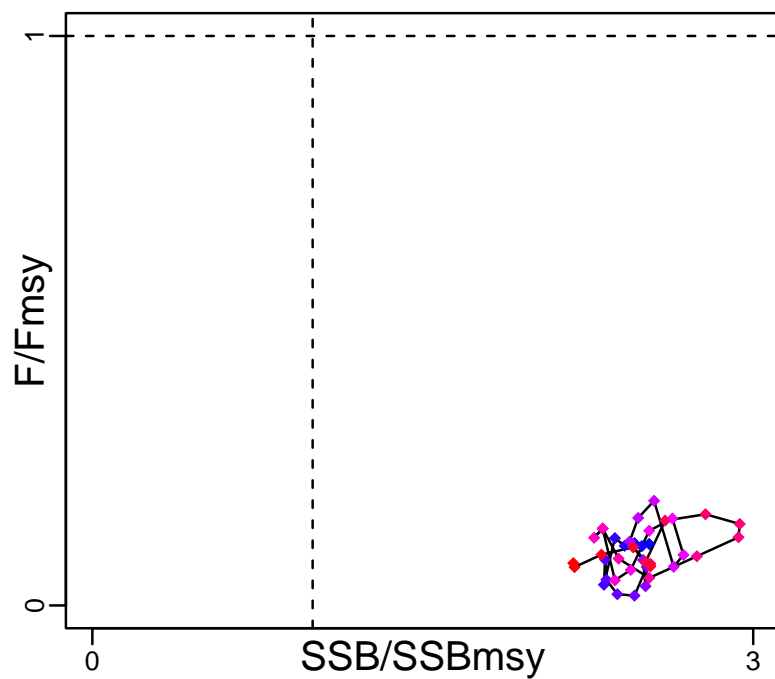
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	75,600	-	3+
SSB	SSB-MT	2019	41,800	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.31×10^8	-	0
F	F-1/yr	2019	0.034	-	-
ER	ER-calc-ratio	2015	0.023	-	-
TC	TC-MT	2019	1090		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.322		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.074		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rock sole Gulf of Alaska [NRSOLEGA]

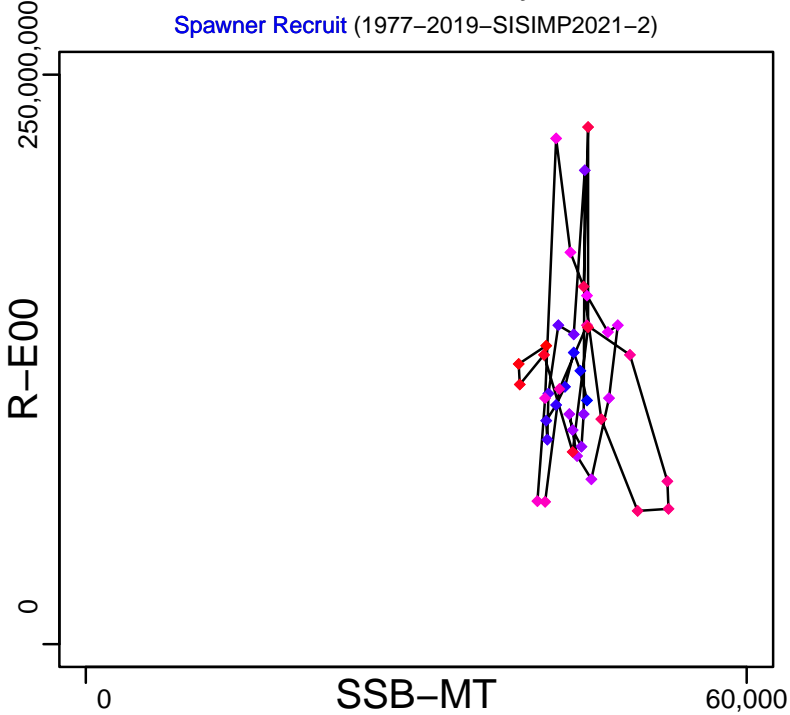
Kobe MSYpref (1977–2019–SISIMP2021–2)



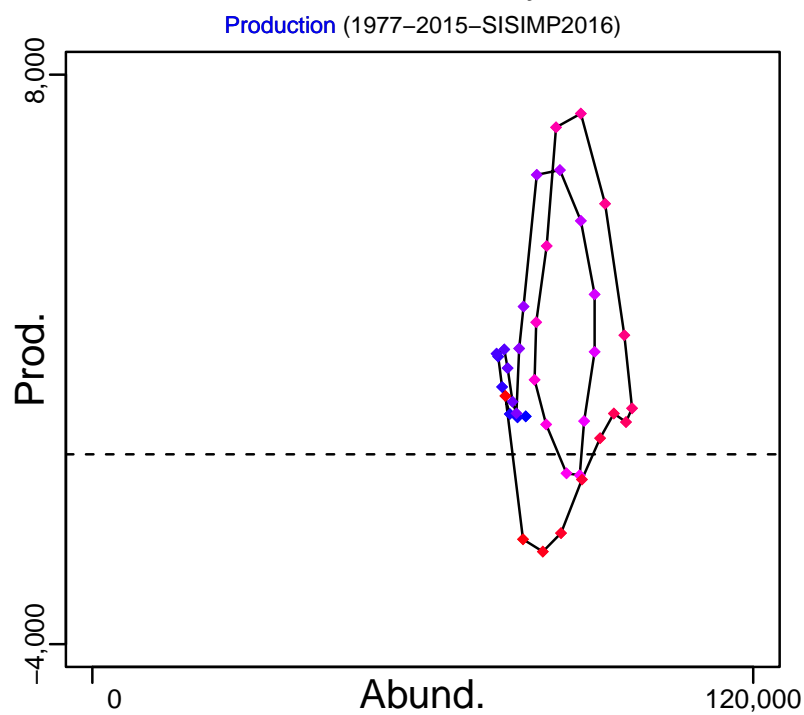
Kobe MGTpref (1977–2019–SISIMP2021–2)



Spawner Recruit (1977–2019–SISIMP2021–2)



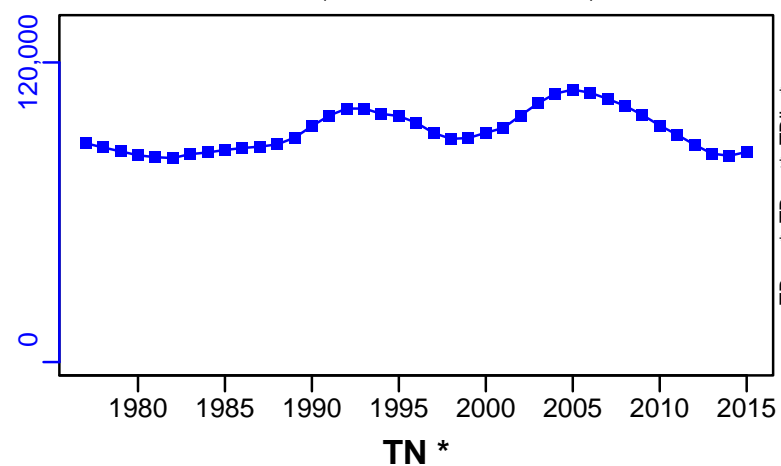
Production (1977–2015–SISIMP2016)



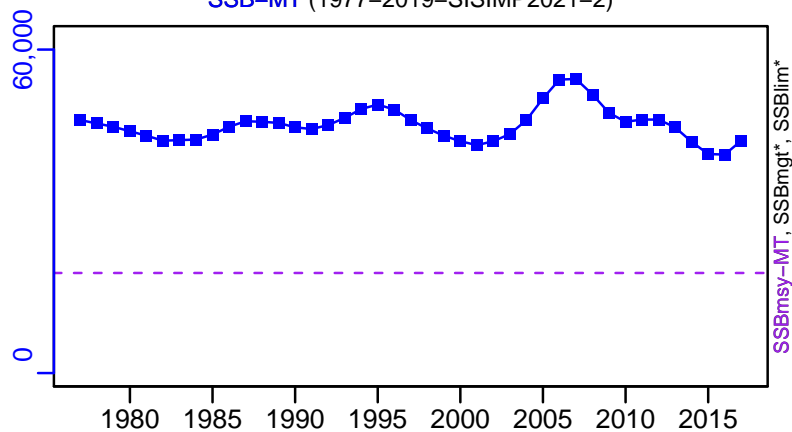
◆ Start Year ◆ End Year * No Data

Northern rock sole Gulf of Alaska [NRSOLEGA]

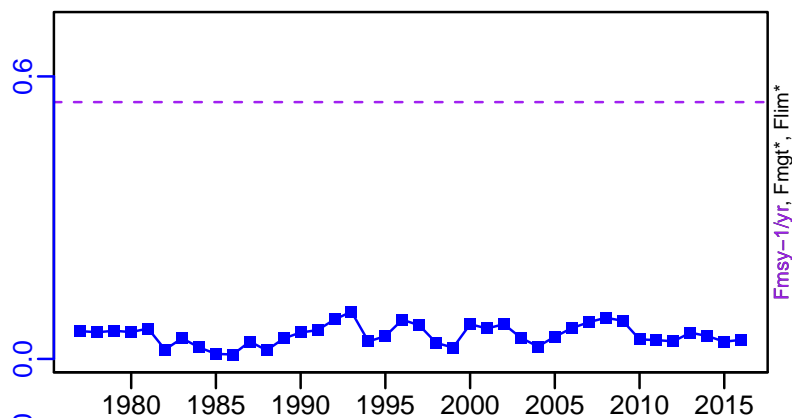
TB-MT (1977-2015-SISIMP2016)



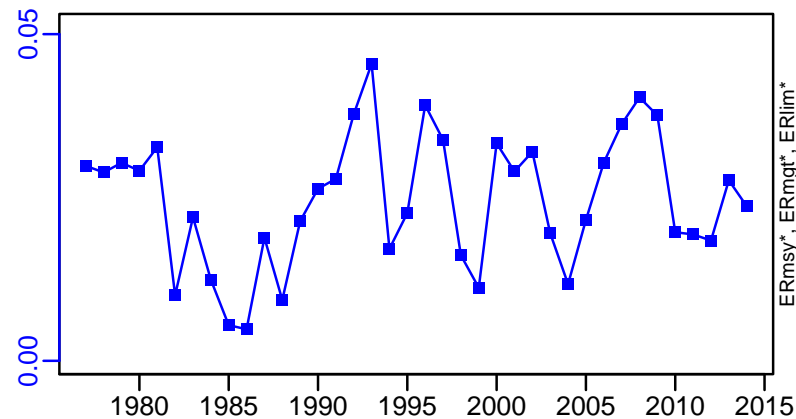
SSB-MT (1977-2019-SISIMP2021-2)



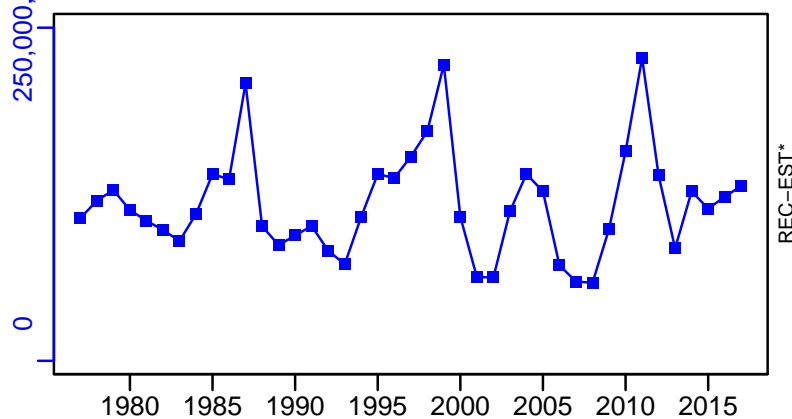
F-1/yr (1977-2019-SISIMP2021-2)



ER-calc-ratio (1977-2015-SISIMP2016)

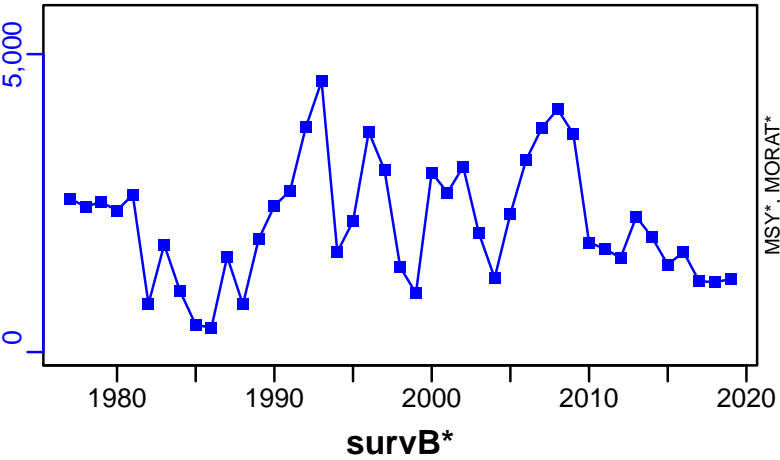


R-E00 (1977-2019-SISIMP2021-2)



Northern rock sole Gulf of Alaska [NRSOLEGA]

TC-MT, TL*, RecC* (1977-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

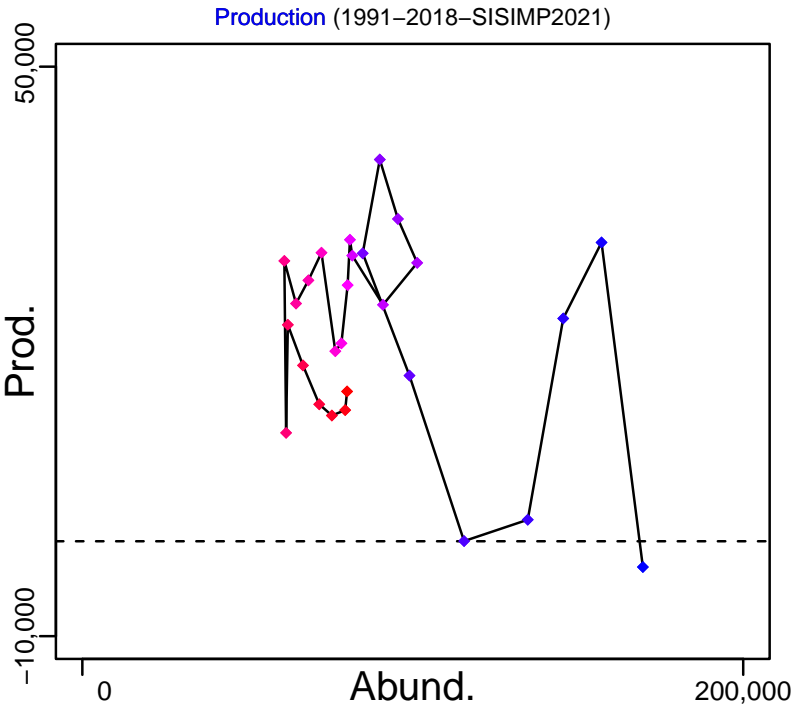
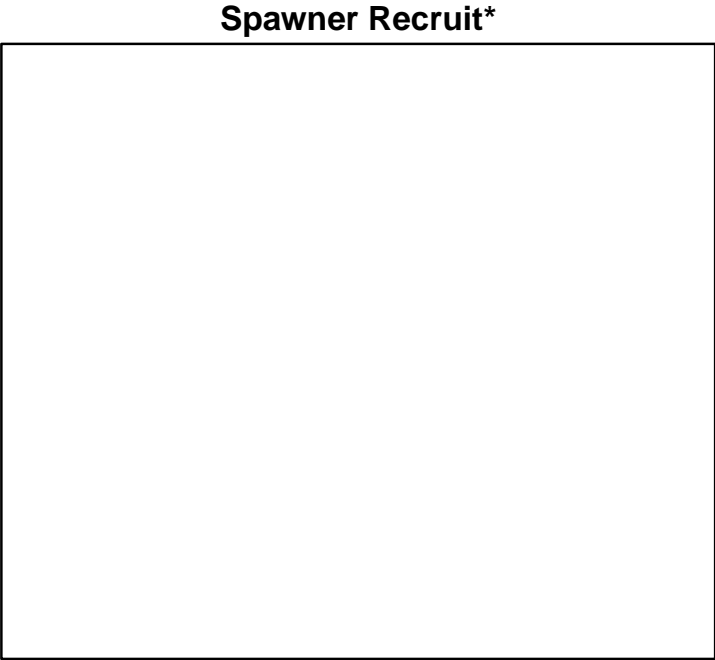
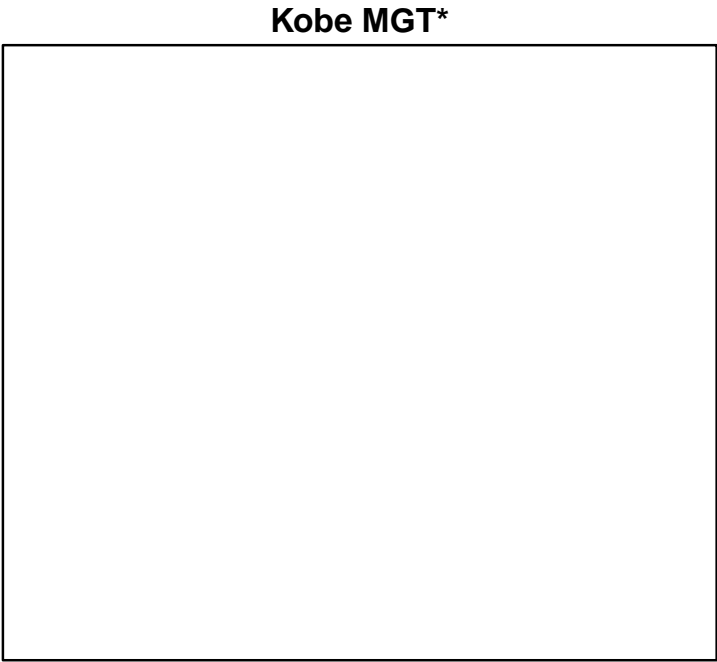
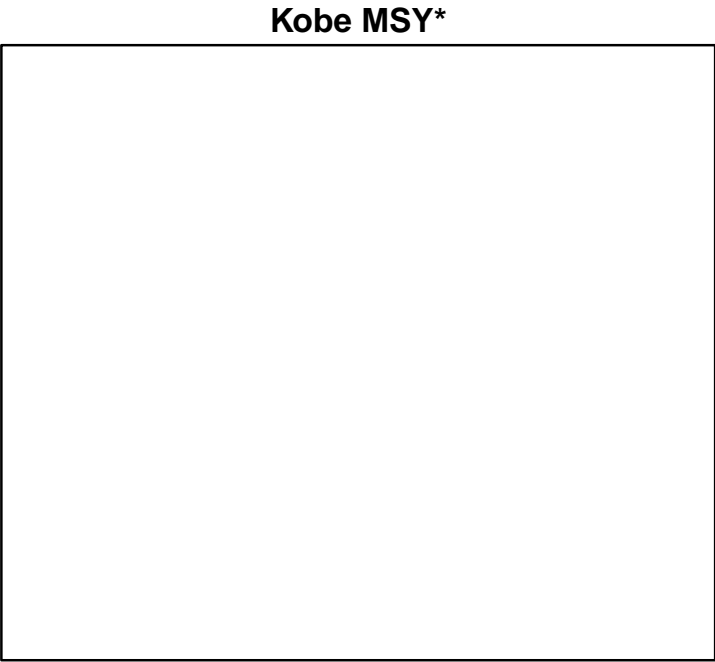


Pacific cod Aleutian Islands [PCODAI]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODAI-1964-2020-SISIMP2021-2
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2020, 2014, 2016, 2018, 2018

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

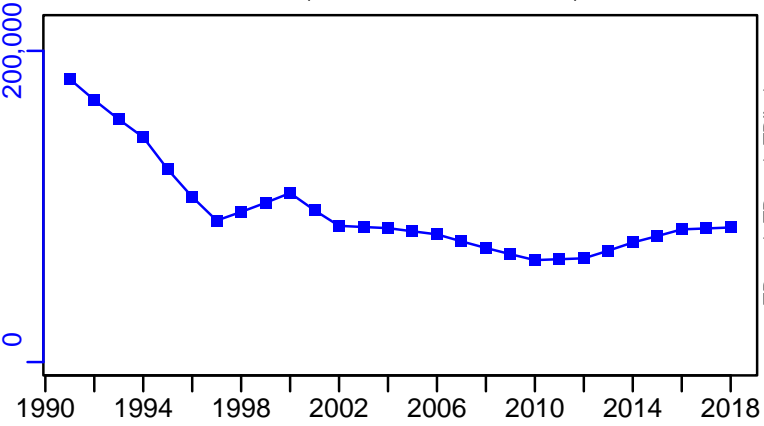
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	80,696	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.242	-	-
TC	TC-MT	2020	19,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Pacific cod Aleutian Islands [PCODAI]

TB-MT (1991–2018–SISIMP2021)



SSB*



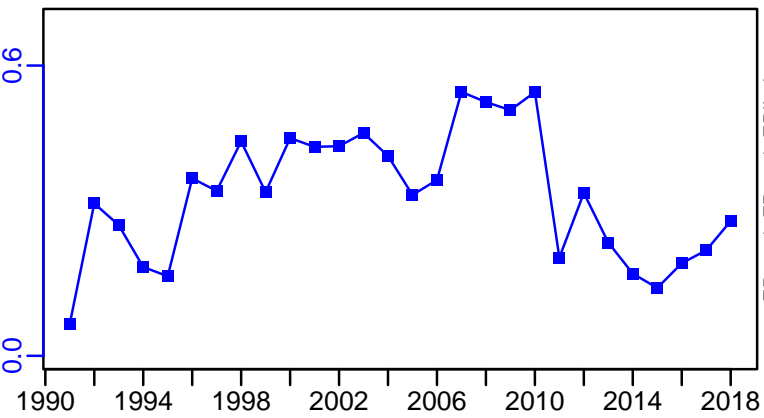
TN *



F*



ER-calc-ratio (1991–2018–SISIMP2021)



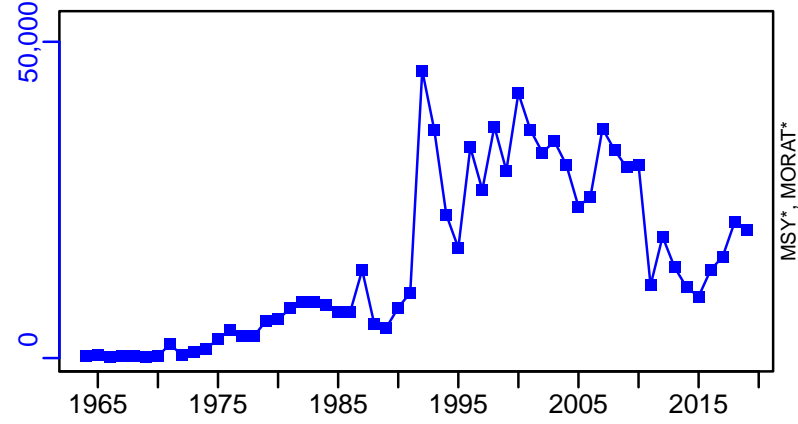
Recruits*



Pacific cod Aleutian Islands [PCODAI]

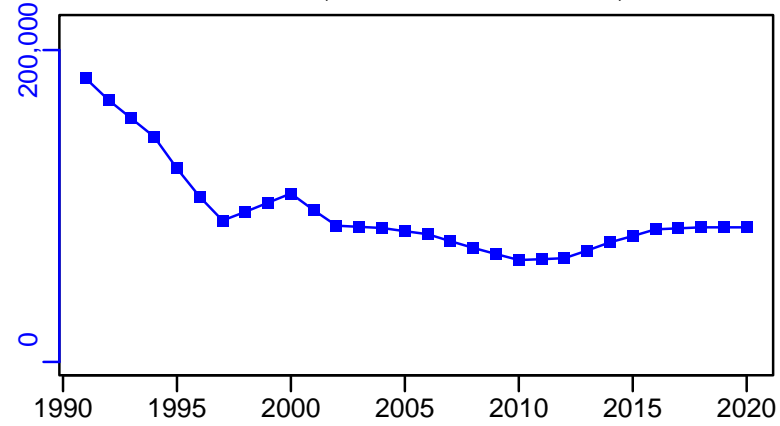
TC-MT, TL*, RecC* (1964-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



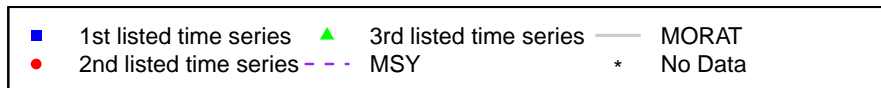
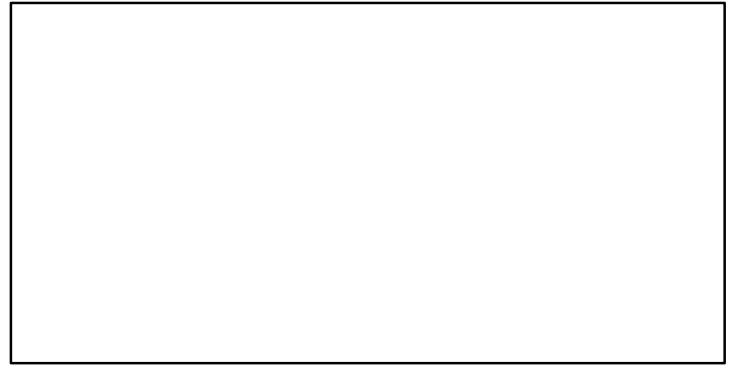
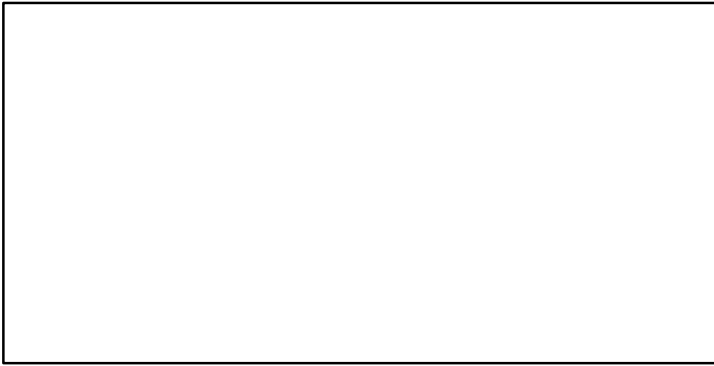
survB-MT (1964-2020-SISIMP2021-2)

CPUE*



EFFORT*

CdivMSY*



Pacific cod Bering Sea [PCODBS]

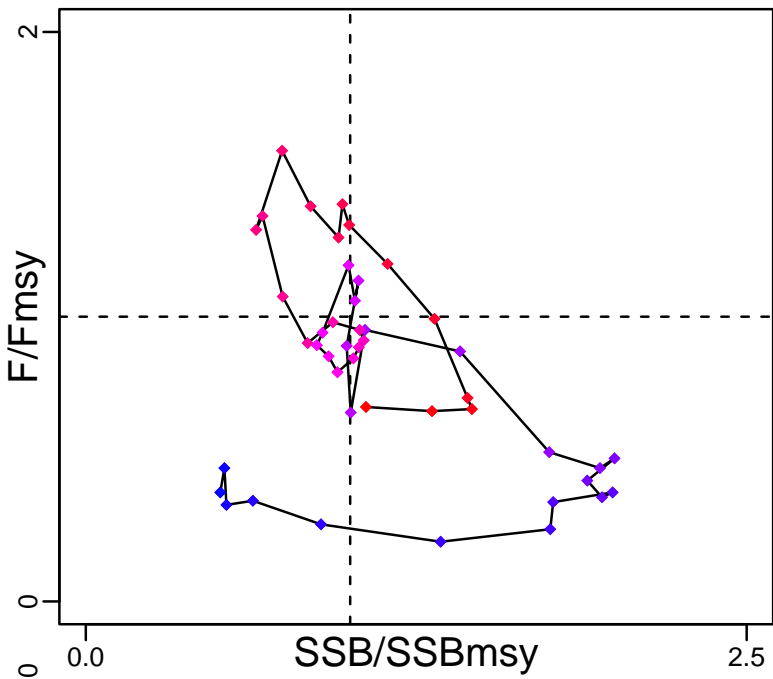
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODBS-1977-2021-SISIMP2022
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	240,366
Fmsy	Fmsy-1/yr	2021	0.41
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.363
ERlim	-	-	-

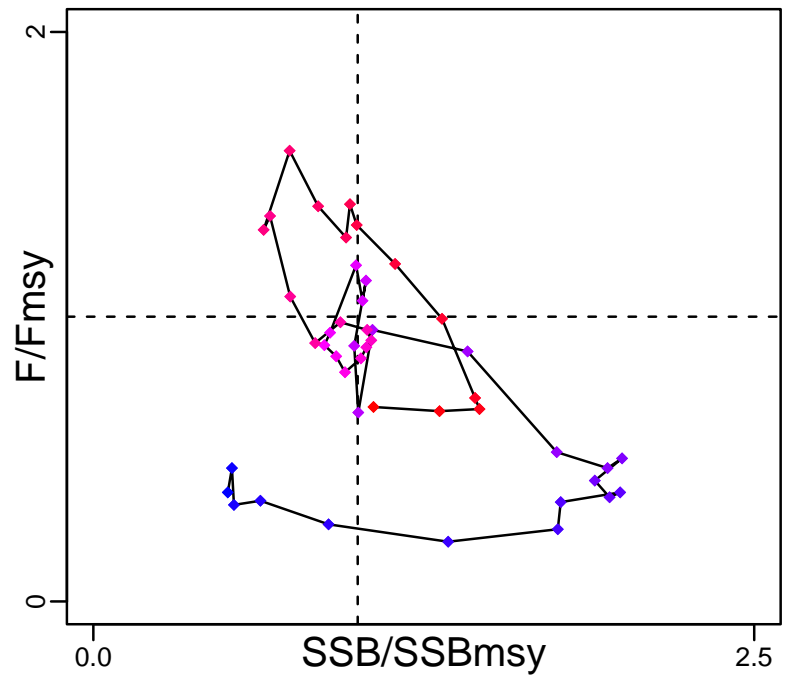
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,670,000	-	0+
SSB	SSB-MT	2021	254,718	Females	-
TN	-	-	-	-	-
R	R-E00	2021	501,019,000	-	0
F	F-1/yr	2021	0.28	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2021	155,639		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.06		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.683		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Bering Sea [PCODBS]

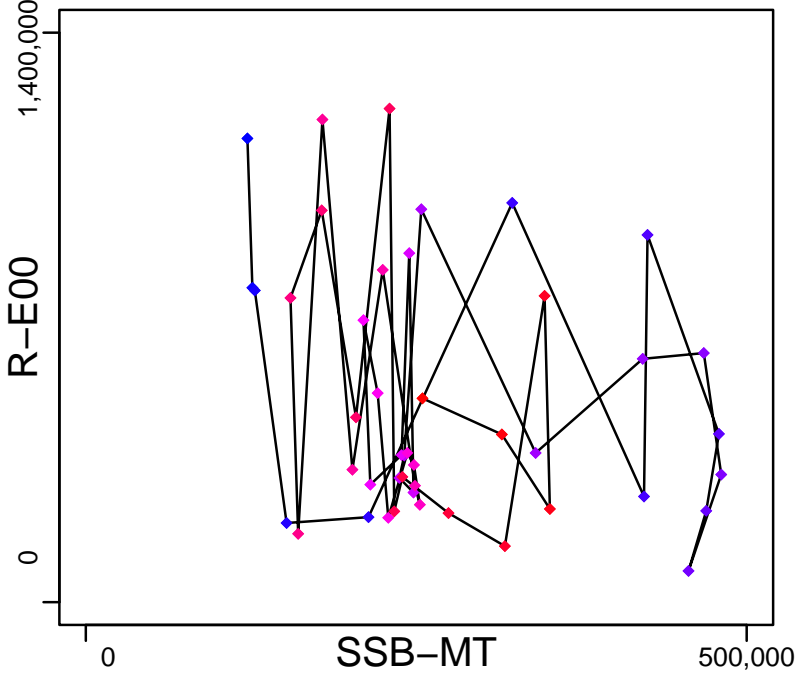
Kobe MSYpref (1977–2021–SISIMP2022)



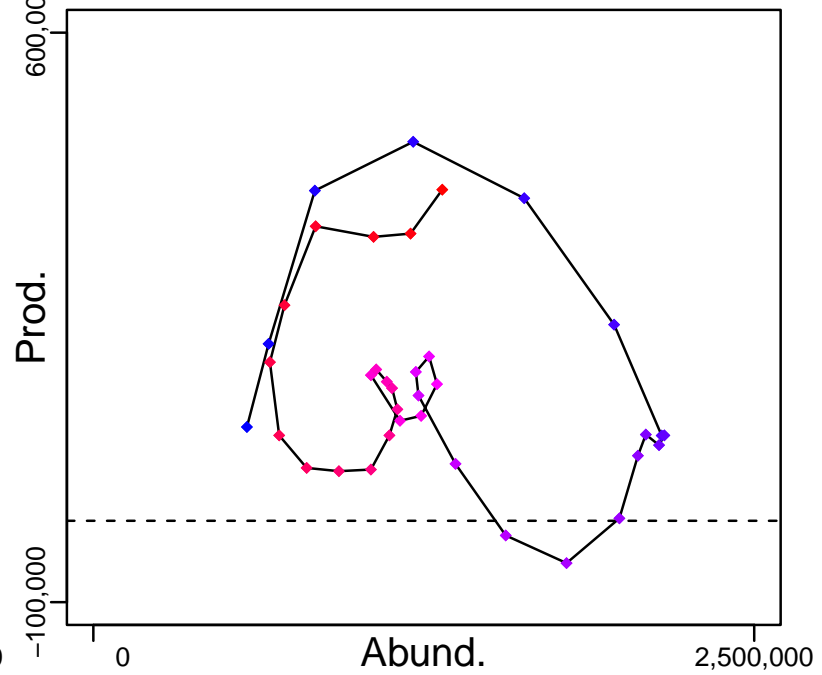
Kobe MGTpref (1977–2021–SISIMP2022)



Spawner Recruit (1977–2021–SISIMP2022)



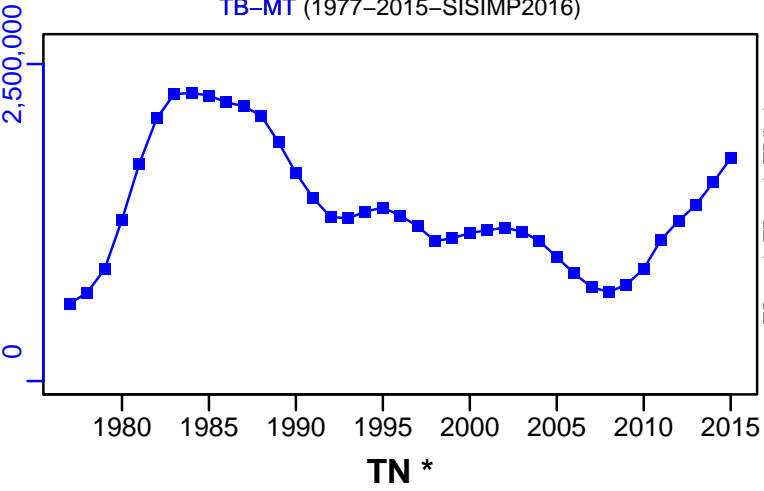
Production (1977–2015–SISIMP2016)



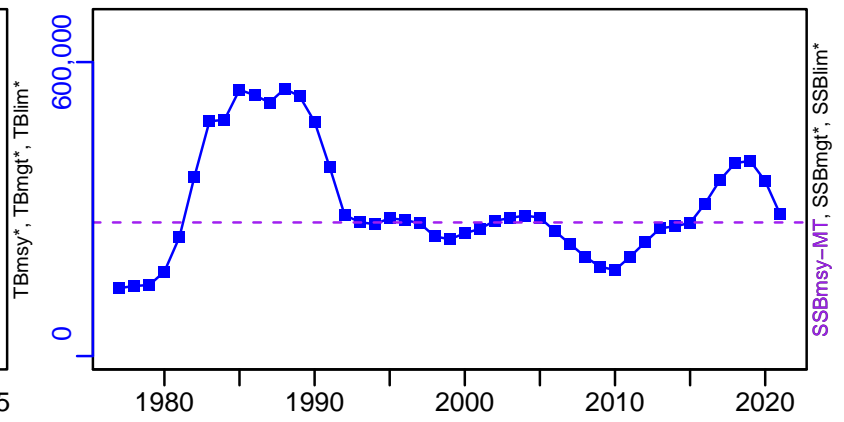
◆ Start Year ◆ End Year * No Data

Pacific cod Bering Sea [PCODBS]

TB-MT (1977-2015-SISIMP2016)



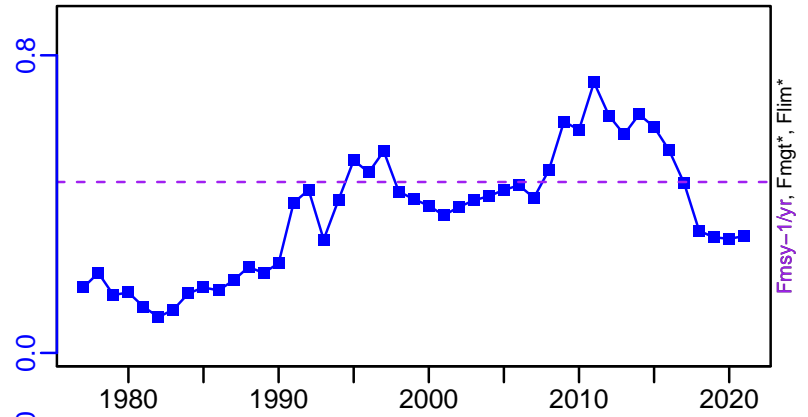
SSB-MT (1977-2021-SISIMP2022)



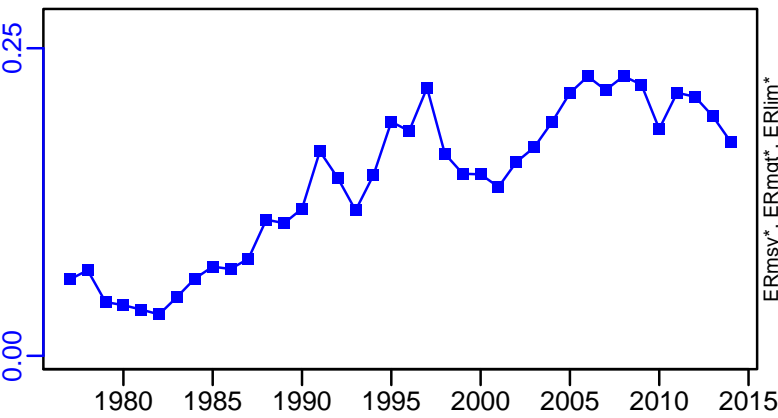
TN *



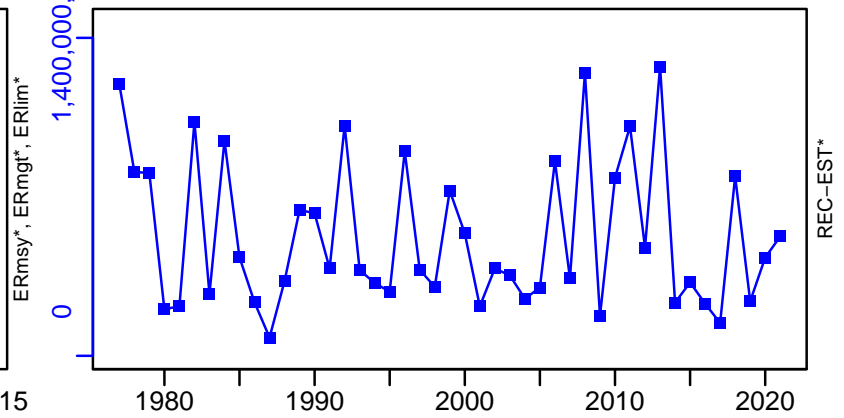
F-1/yr (1977-2021-SISIMP2022)



ER-calc-ratio (1977-2015-SISIMP2016)

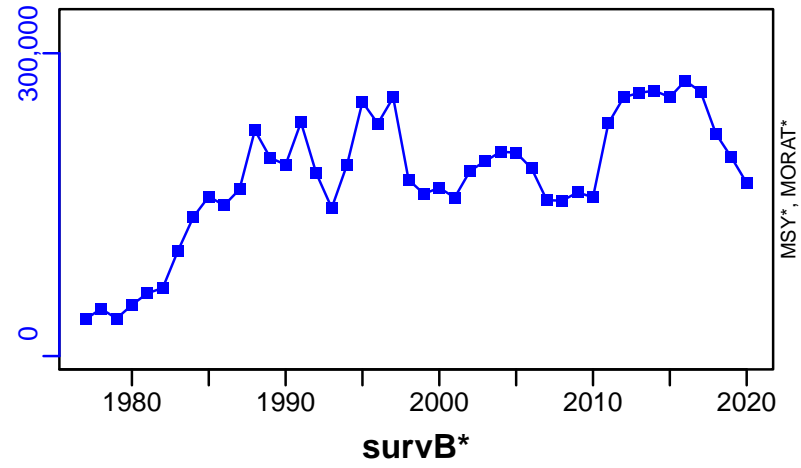


R-E00 (1977-2021-SISIMP2022)



Pacific cod Bering Sea [PCODBS]

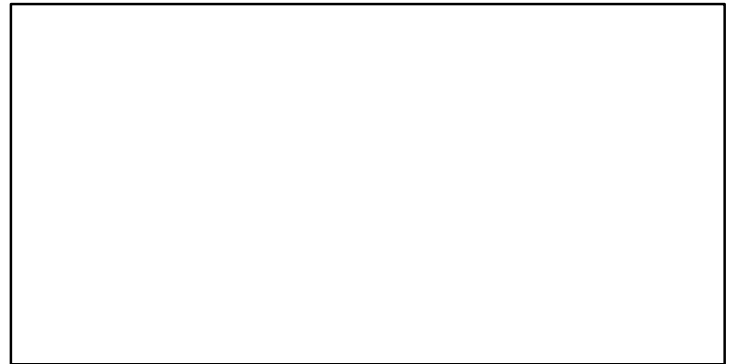
TC-MT, TL*, RecC* (1977-2021-SISIMP2022)



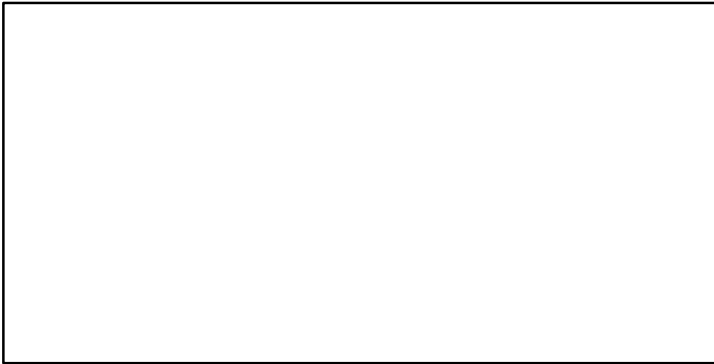
TAC*, Cpair*, Cadv*



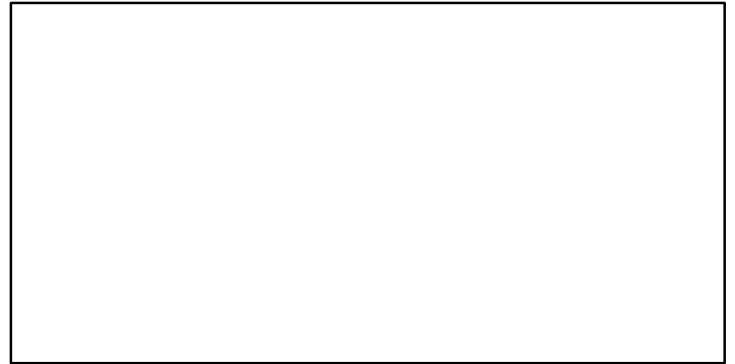
CPUE*



EFFORT*



CdivMSY*



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

Pacific cod Gulf of Alaska [PCODGA]

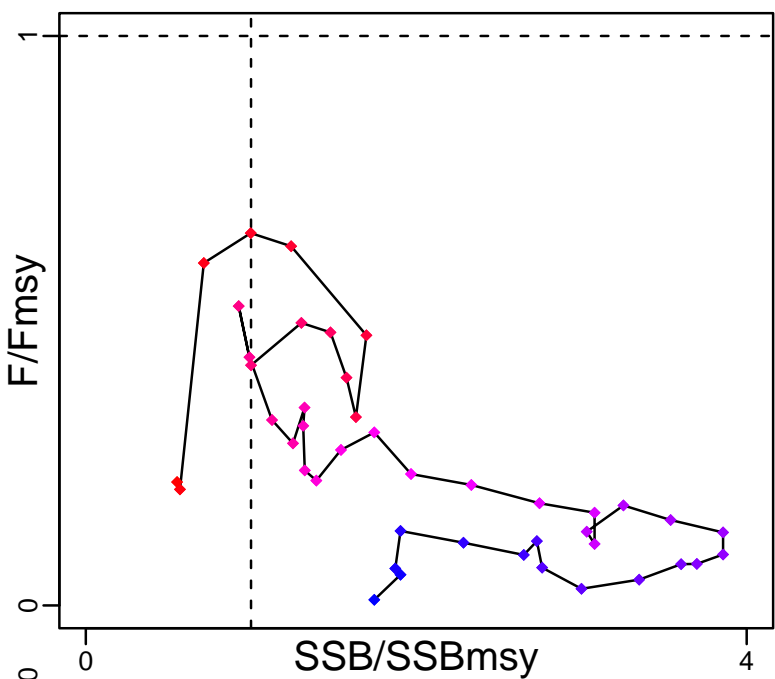
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODGA-1977-2020-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	63,000
Fmsy	Fmsy-1/yr	2020	0.78
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	91,100
Fmgt	Fmgt-1/yr	2015	0.495
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2014	0.38
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	32,900
Flim	Flim-1/yr	2020	0.45
ERlim	-	-	-

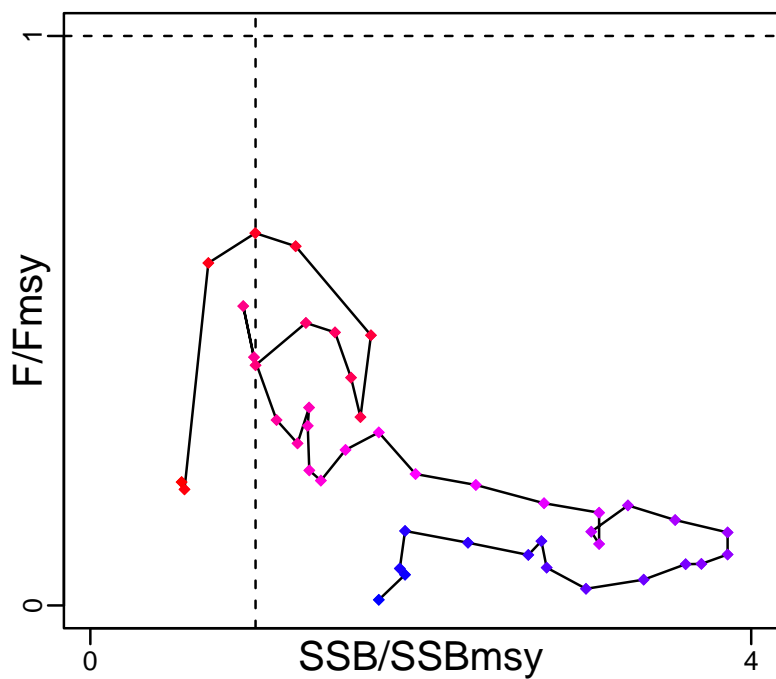
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	640,000	-	3+
SSB	SSB-MT	2020	34,600	-	-
TN	-	-	-	-	-
R	R-E00	2020	4.64×10^8	-	0
F	F-1/yr	2020	0.169	-	-
ER	ER-calc-ratio	2015	0.125	-	-
TC	TC-MT	2020	15,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.549		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.217		
ER/ERmsy	-	-	-		
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]

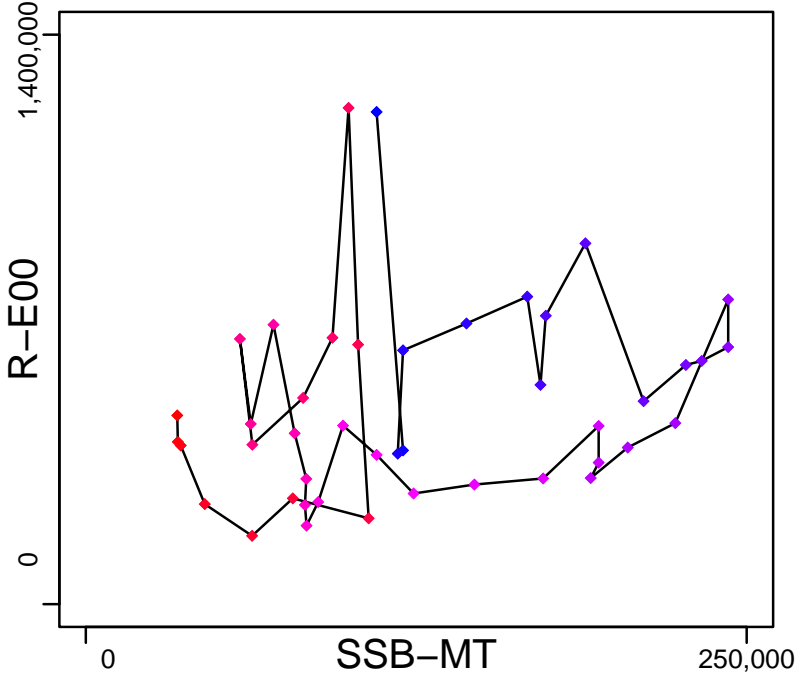
Kobe MSYpref (1977–2020–SISIMP2021–2)



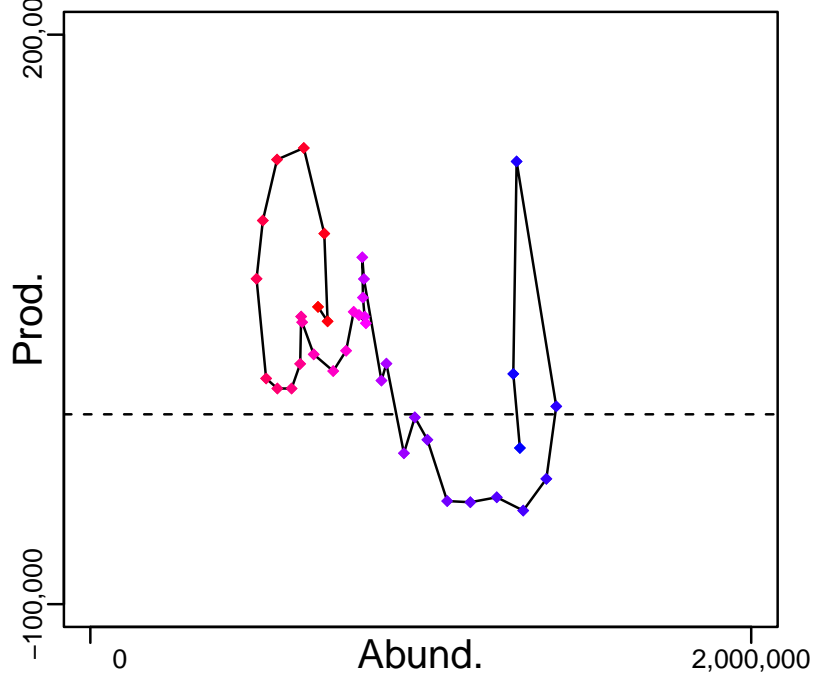
Kobe MGTpref (1977–2020–SISIMP2021–2)



Spawner Recruit (1977–2020–SISIMP2021–2)



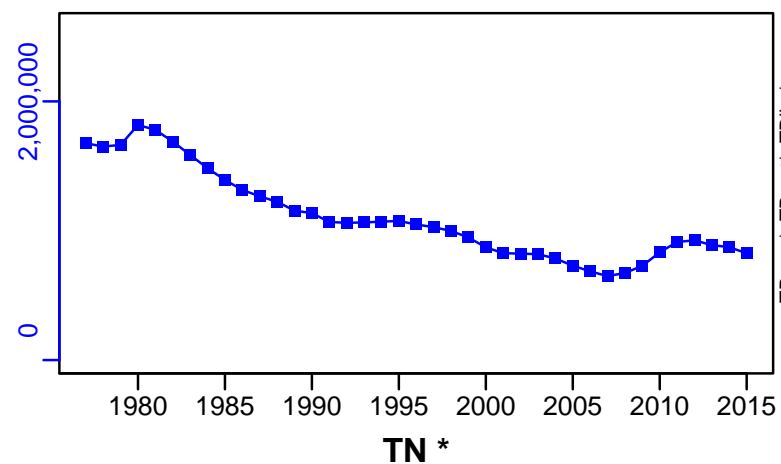
Production (1977–2015–SISIMP2016)



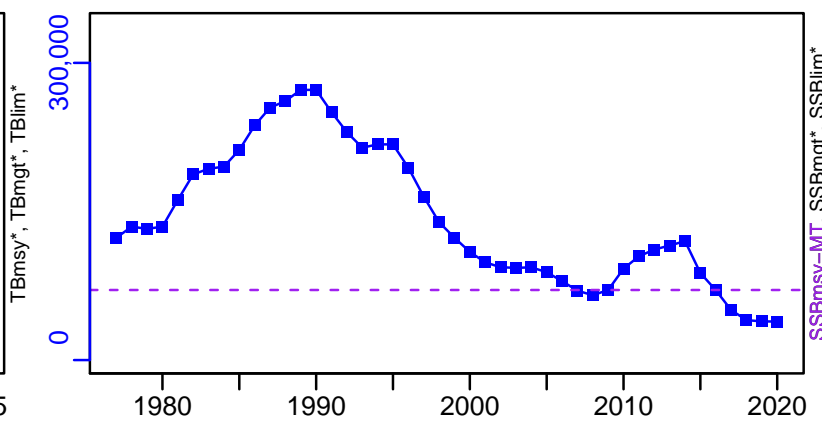
◆ Start Year ◆ End Year * No Data

Pacific cod Gulf of Alaska [PCODGA]

TB-MT (1977-2015-SISIMP2016)



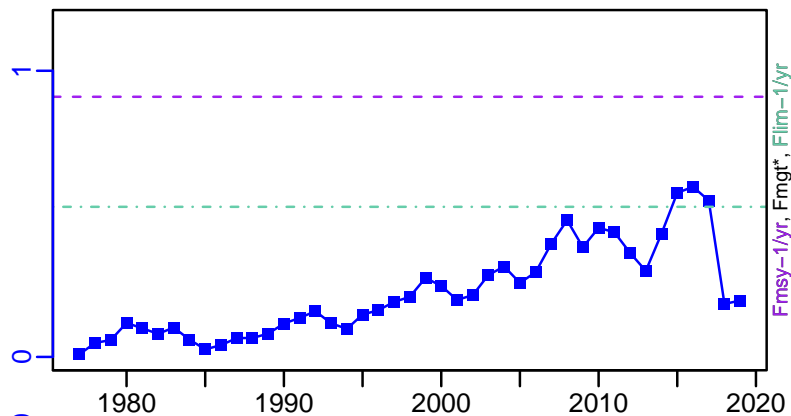
SSB-MT (1977-2020-SISIMP2021-2)



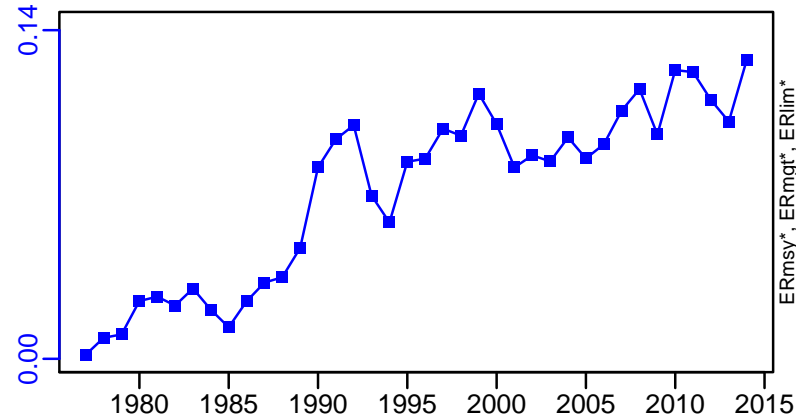
TN *



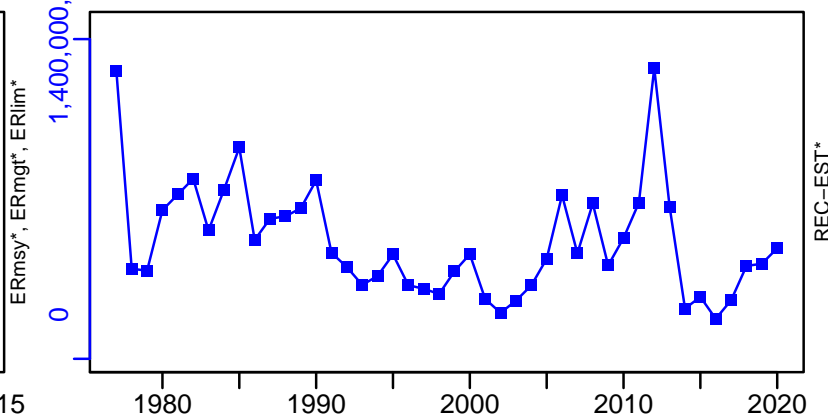
F-1/yr (1977-2020-SISIMP2021-2)



ER-calc-ratio (1977-2015-SISIMP2016)



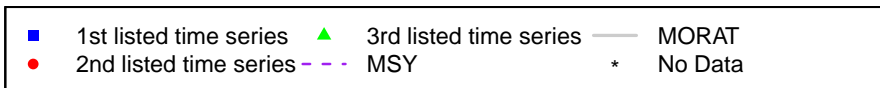
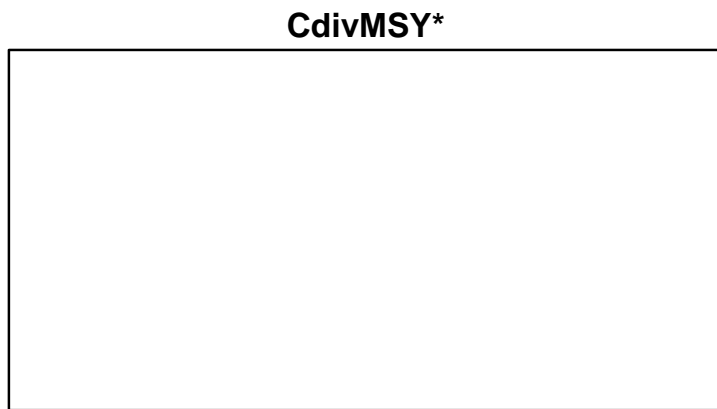
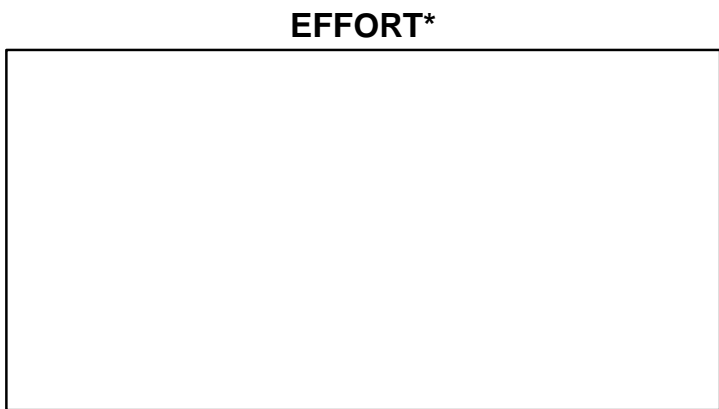
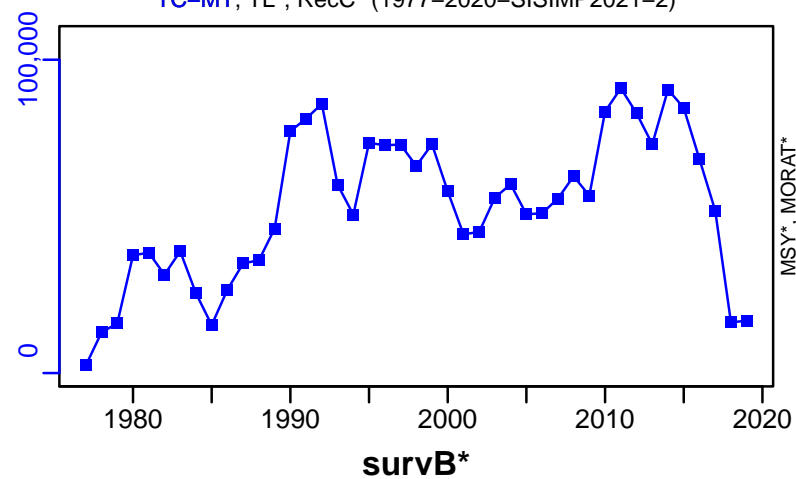
R-E00 (1977-2020-SISIMP2021-2)



Pacific cod Gulf of Alaska [PCODGA]

TC-MT, TL*, RecC* (1977-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



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

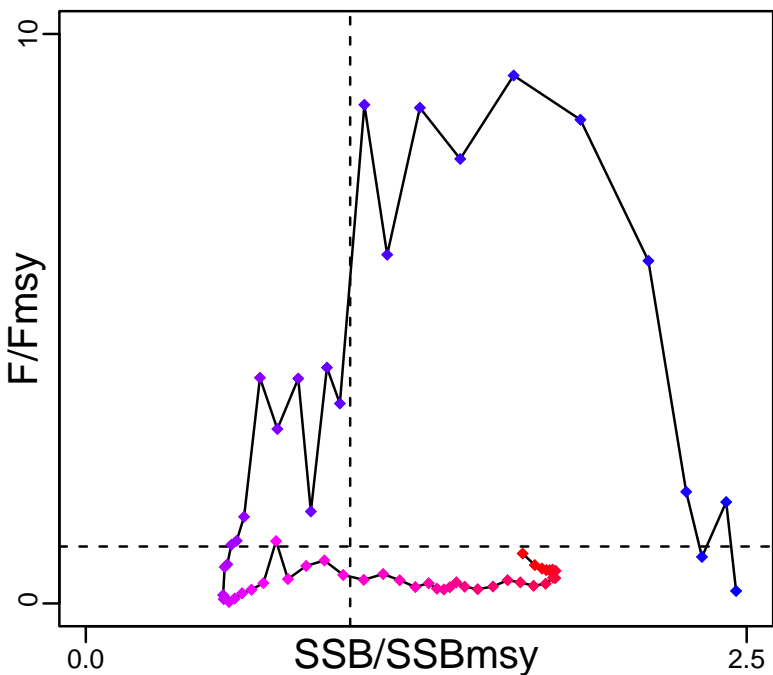
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-PERCHEBSAI-1957-2021-SISIMP2022
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2021, 2011,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

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

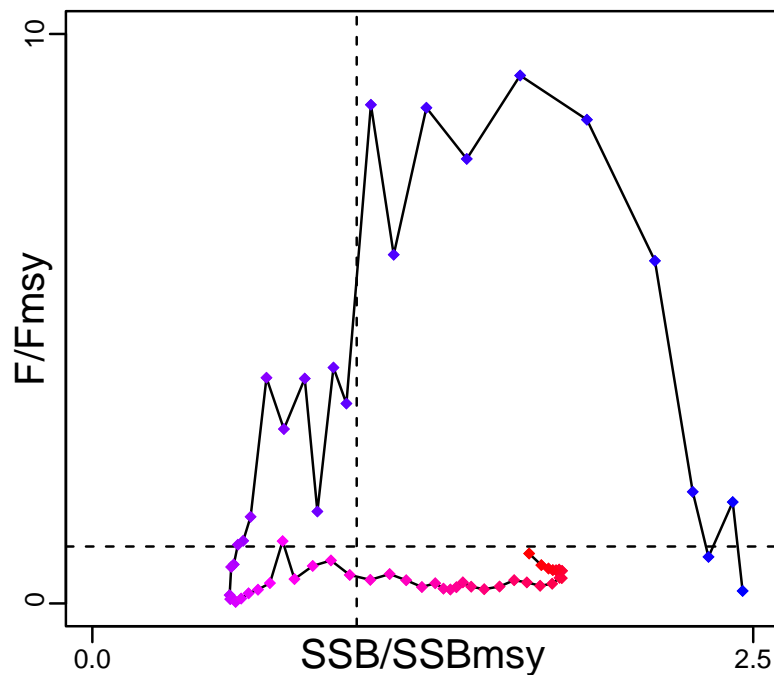
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	598,000	Both	3+
SSB	SSB-MT	2021	310,036	Females	-
TN	-	-	-	-	-
R	R-E00	2021	99,395,000	-	3
F	F-1/yr	2021	0.078	-	-
ER	ER-calc-ratio	2015	0.054	-	-
TC	TC-MT	2021	40,417		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.515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

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

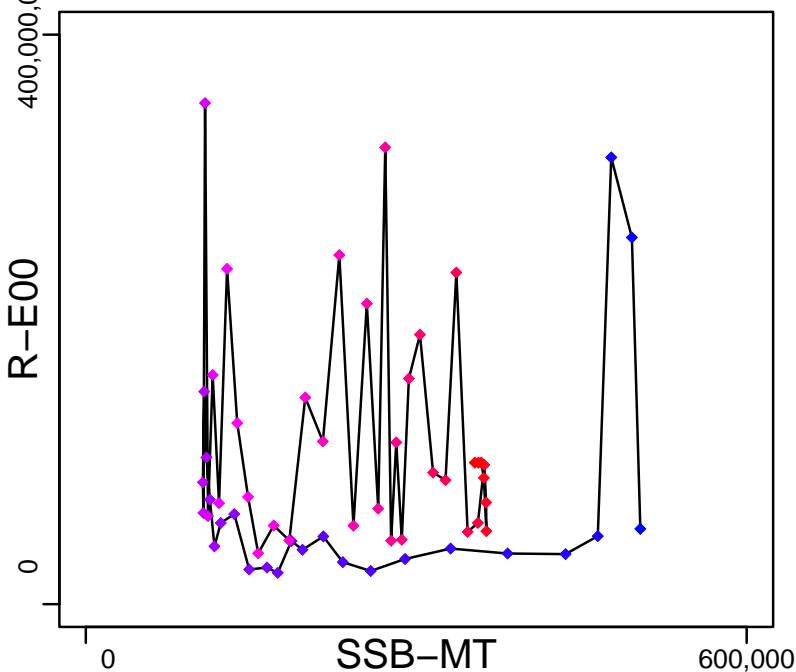
Kobe MSY_{pref} (1957–2021–SISIMP2022)



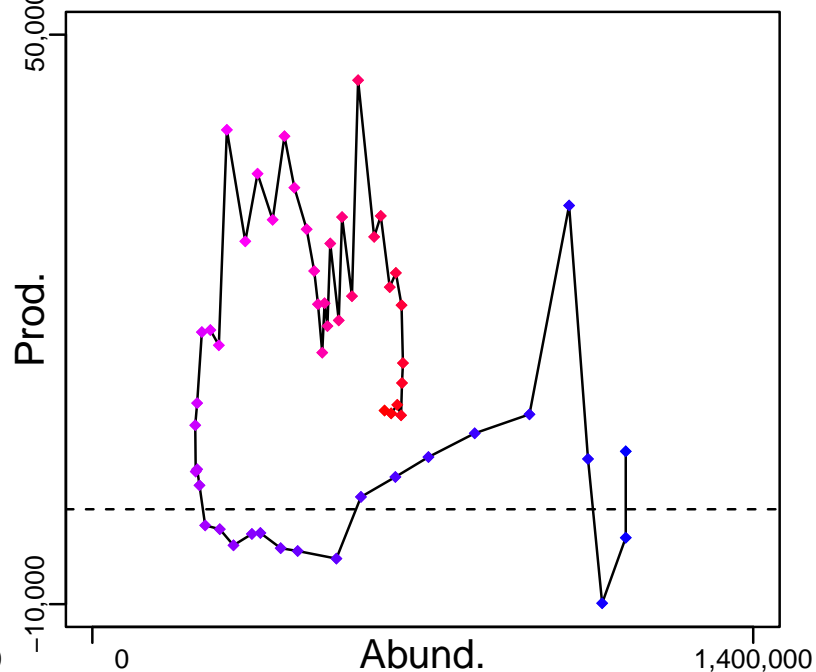
Kobe MGT_{pref} (1957–2021–SISIMP2022)



Spawner Recruit (1957–2021–SISIMP2022)



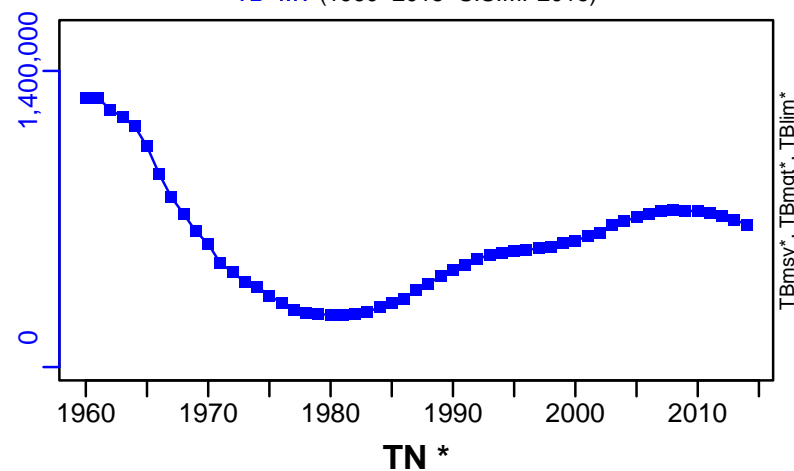
Production (1960–2015–SISIMP2016)



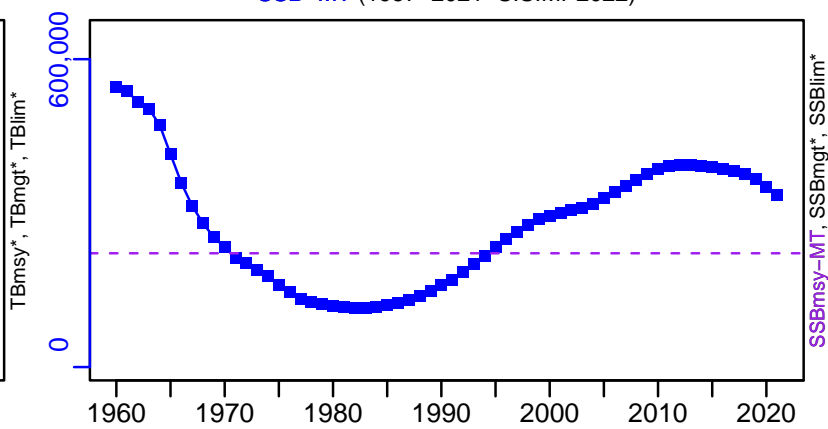
◆ Start Year ◆ End Year * No Data

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

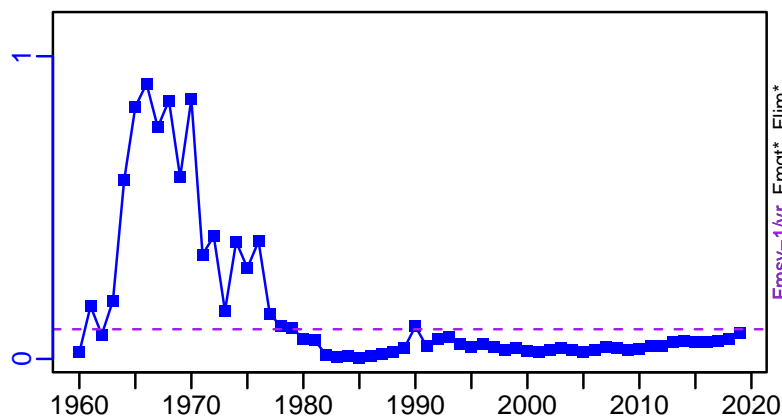
TB-MT (1960–2015–SISIMP2016)



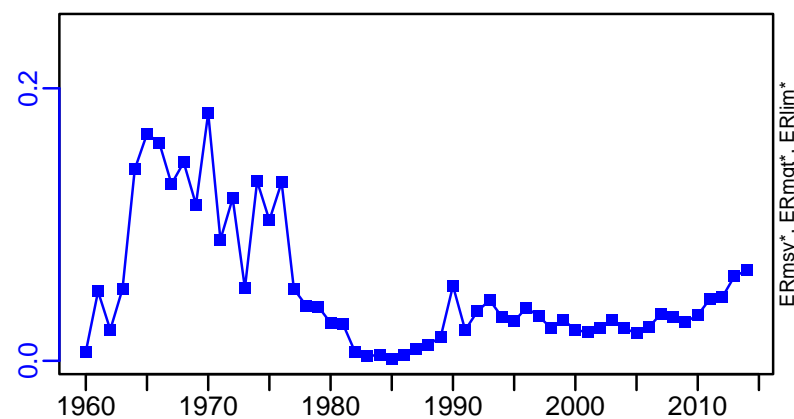
SSB-MT (1957–2021–SISIMP2022)



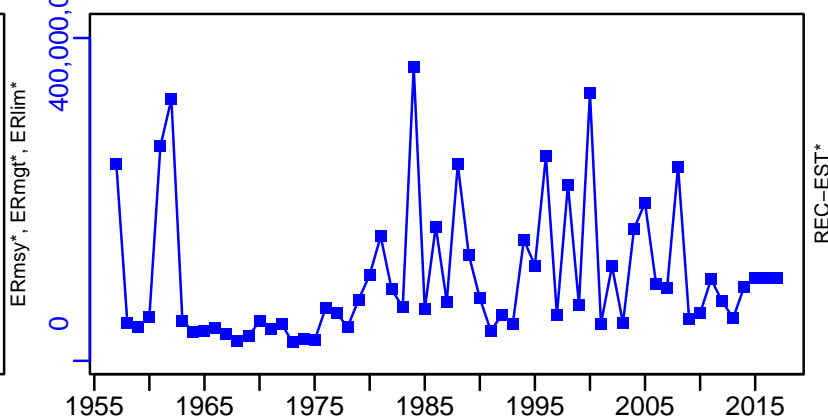
F-1/yr (1957–2021–SISIMP2022)



ER-calc-ratio (1960–2015–SISIMP2016)

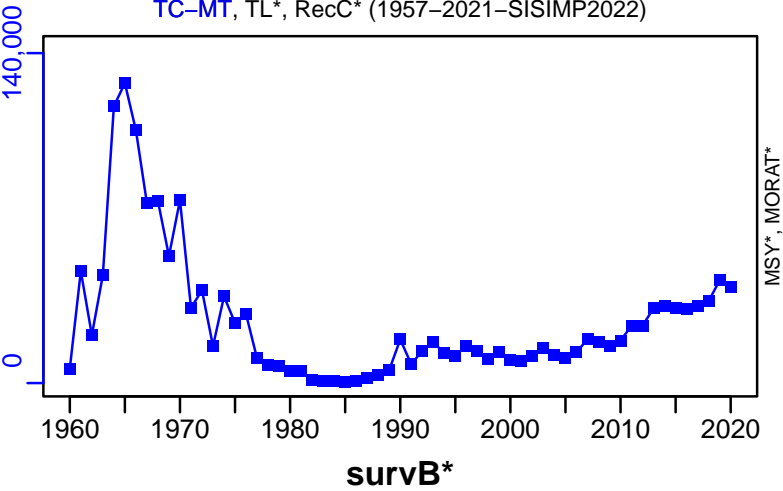


R-E00 (1957–2021–SISIMP2022)

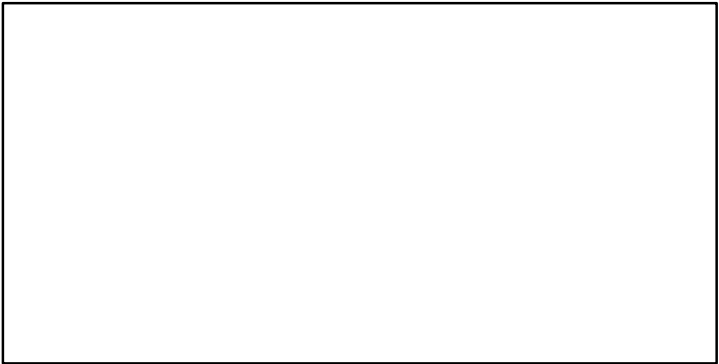


Pacific ocean perch Eastern Bering Sea and Aleutian Islands [PERCHEBSAI]

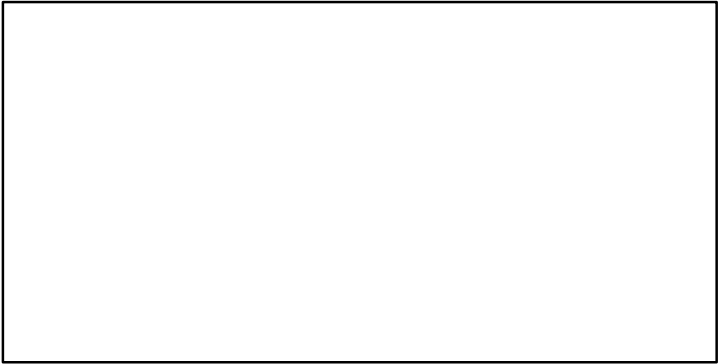
TC-MT, TL*, RecC* (1957-2021-SISIMP2022)



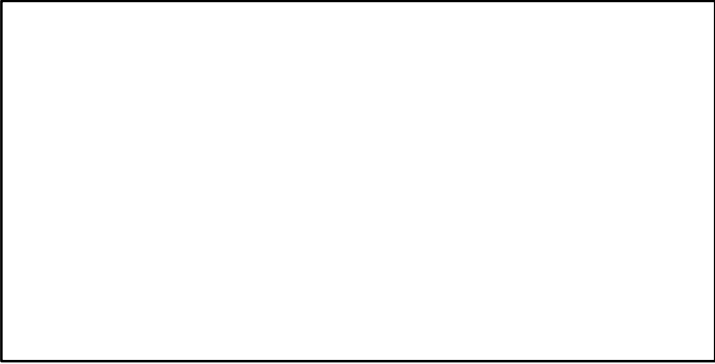
TAC*, Cpair*, Cadv*



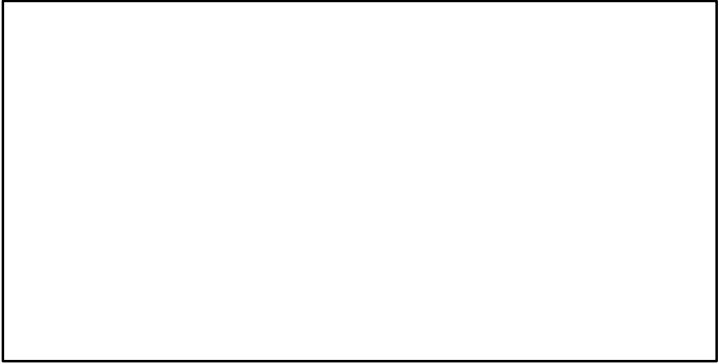
CPUE*



EFFORT*



CdivMSY*



Pacific halibut North Pacific [PHALNPAC]

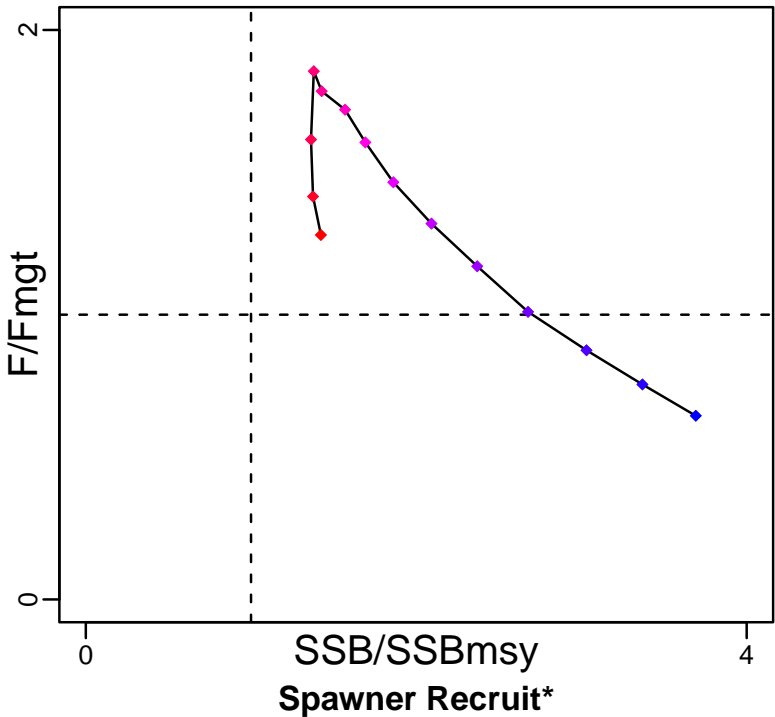
Metadata	
Scientific Name	Hippoglossus stenolepis
Current Assess ID	IPHC-PHALNPAC-1992-2020-SISIMP2022
Area	North Pacific
Management Authority	International Pacific Halibut Commission
Assessor	International Pacific Halibut Commission
Asmts in RAM	2014, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	70,261
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	65,004
Fmgt	Fmgt-1/yr	2014	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	46,720
Flim	-	-	-
ERlim	-	-	-

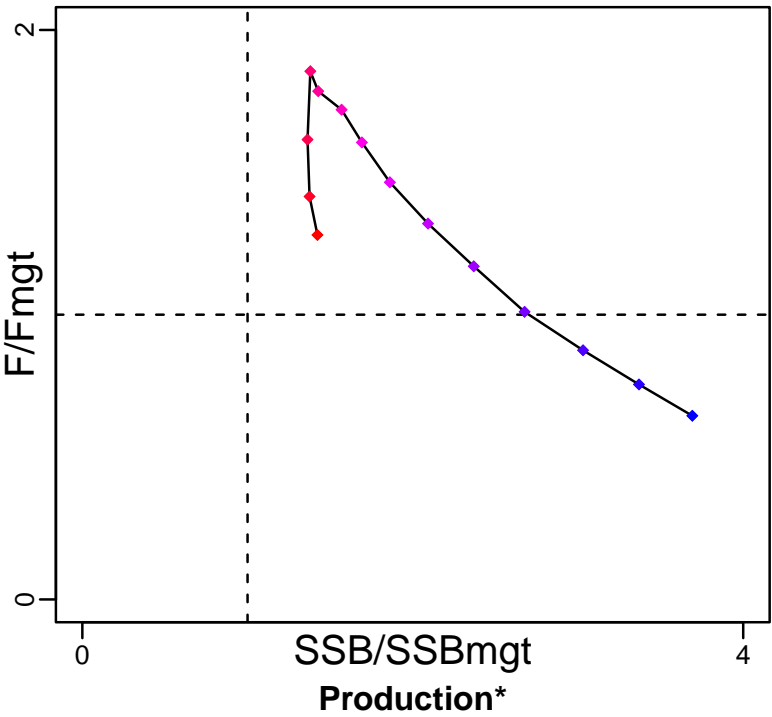
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	77,000	-	-
SSB	SSB-MT	2020	87,997	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2020	0.42	-	-
ER	ER-calc-ratio	2014	0.139	-	-
TC	TC-MT	2019	17,554		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.252		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
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)



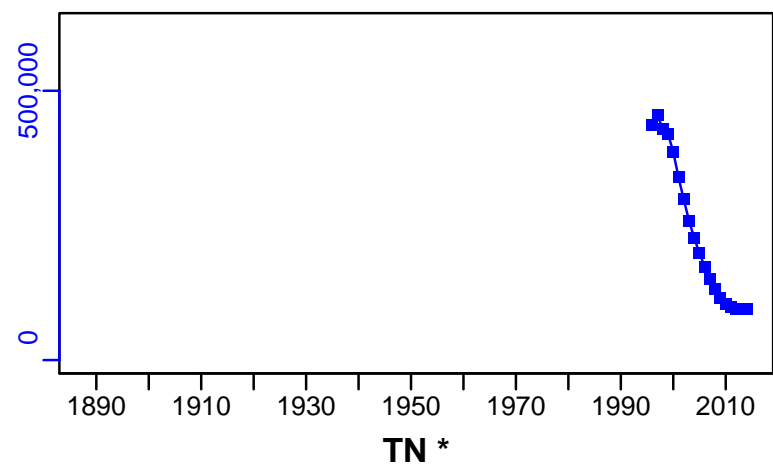
Kobe MGTpref (1888–2014–HIVELY)



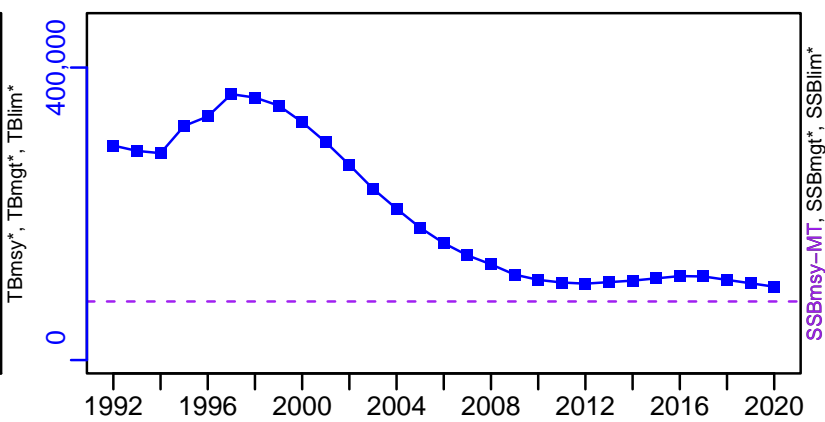
◆ Start Year ◆ End Year * No Data

Pacific halibut North Pacific [PHALNPAC]

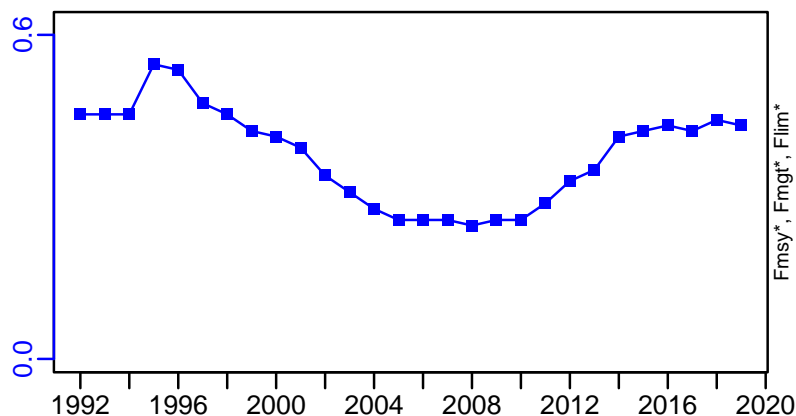
TB-MT (1888–2014–HIVELY)



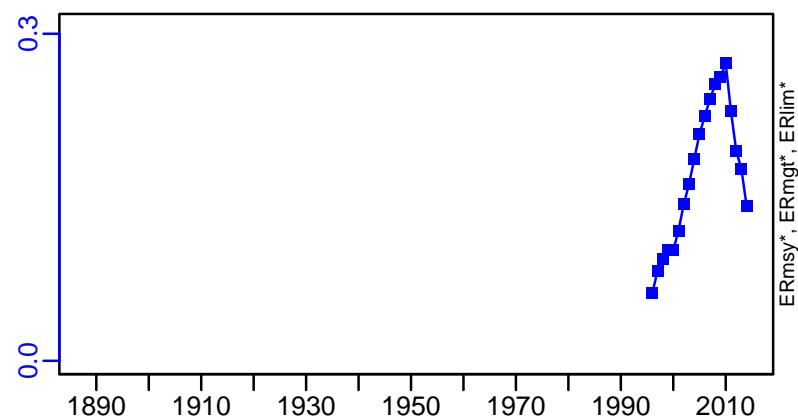
SSB-MT (1992–2020–SISIMP2022)



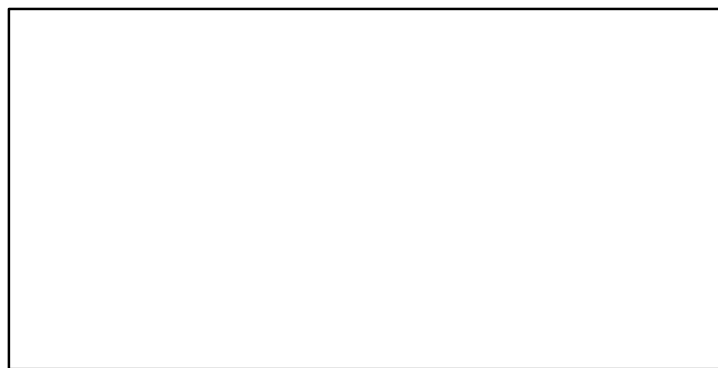
F-1/yr (1992–2020–SISIMP2022)



ER-calc-ratio (1888–2014–HIVELY)

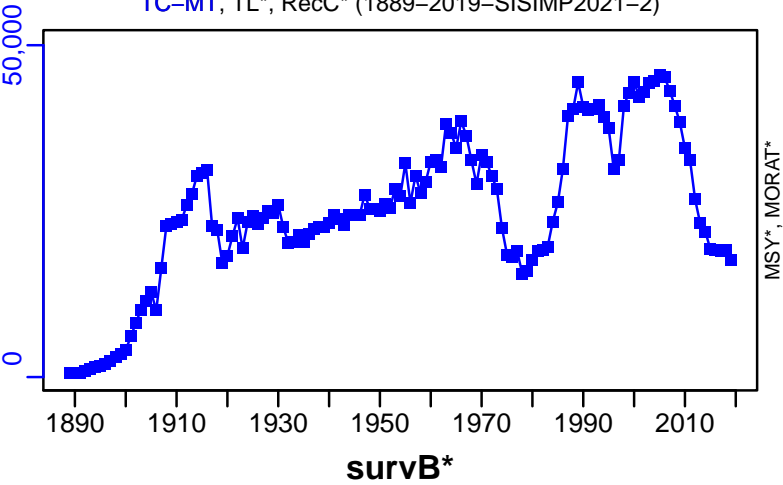


Recruits*



Pacific halibut North Pacific [PHALNPAC]

TC-MT, TL*, RecC* (1889-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



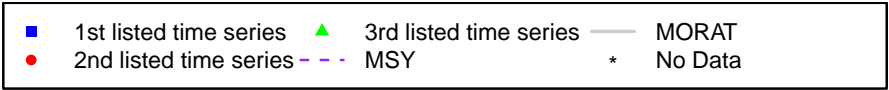
CPUE*



EFFORT*



CdivMSY*



Pacific ocean perch Gulf of Alaska [POPERCHGA]

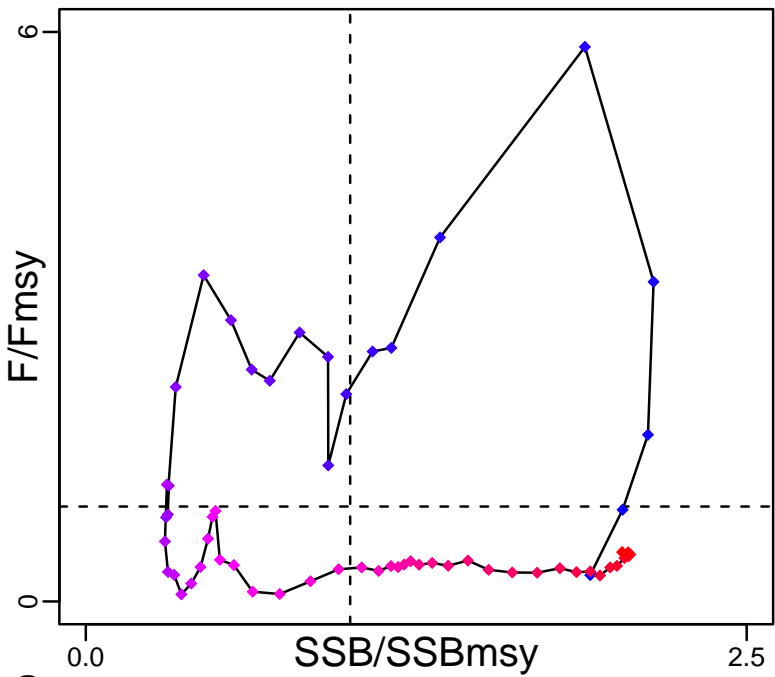
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-POPERCHGA-1959-2021-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2021, 2015, 2019, 2020

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

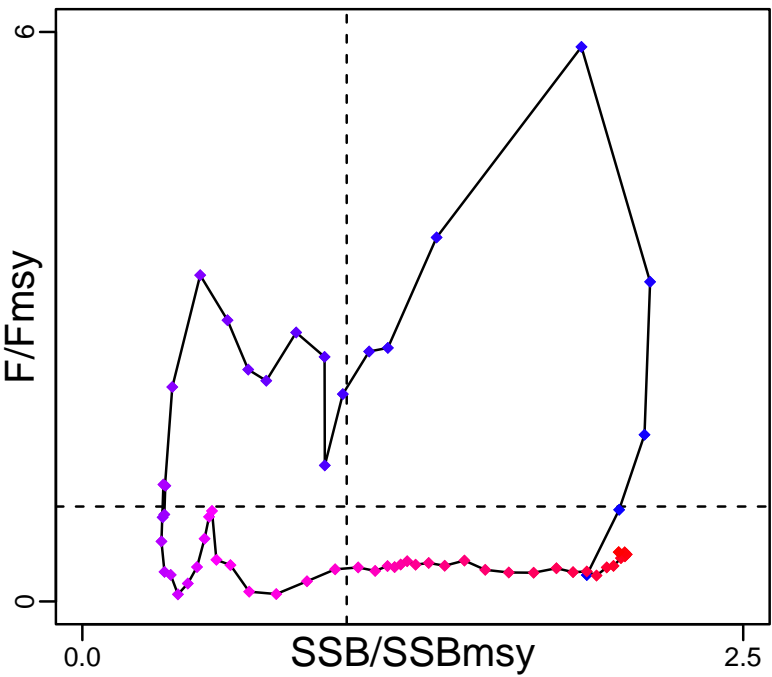
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	462,000	Both	2+
SSB	SSB-MT	2021	222,301	-	-
TN	-	-	-	-	-
R	R-E00	2021	85,003,899	-	2
F	F-1/yr	2021	0.062	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2021	25,191		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT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

Pacific ocean perch Gulf of Alaska [POPERCHGA]

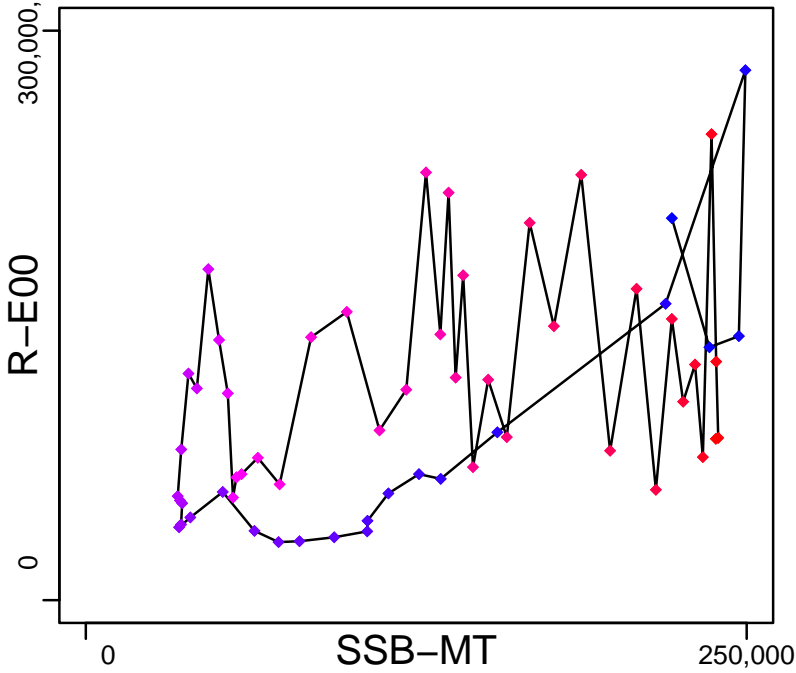
Kobe MSYpref (1959–2021–SISIMP2022)



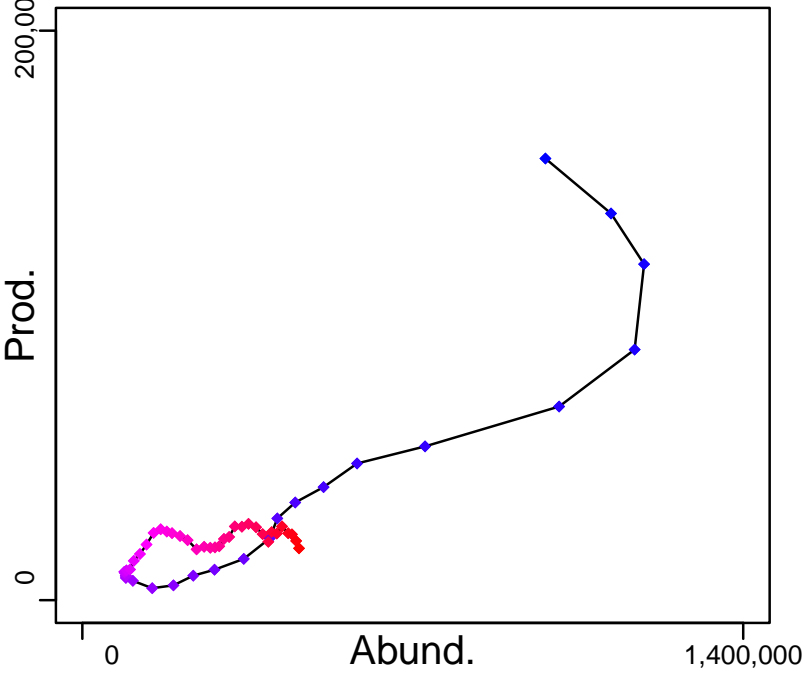
Kobe MGTpref (1959–2021–SISIMP2022)



Spawner Recruit (1959–2021–SISIMP2022)



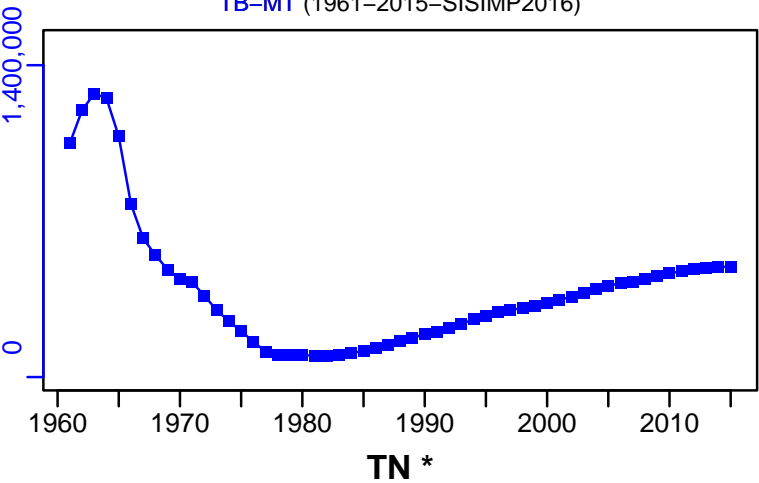
Production (1961–2015–SISIMP2016)



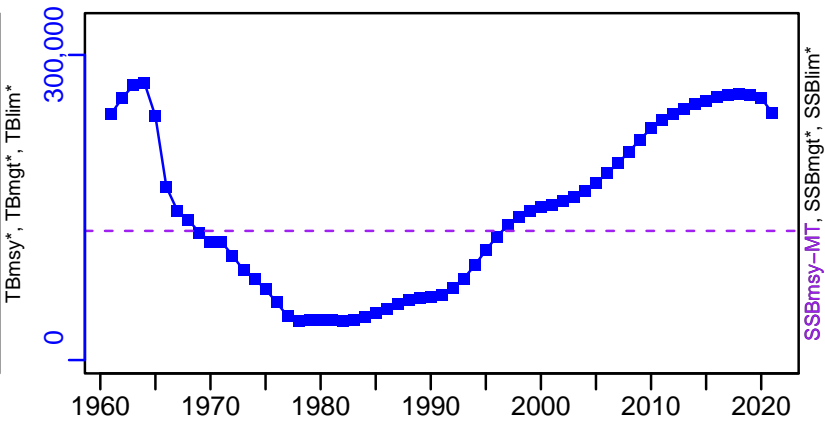
◆ Start Year ◆ End Year * No Data

Pacific ocean perch Gulf of Alaska [POPERCHGA]

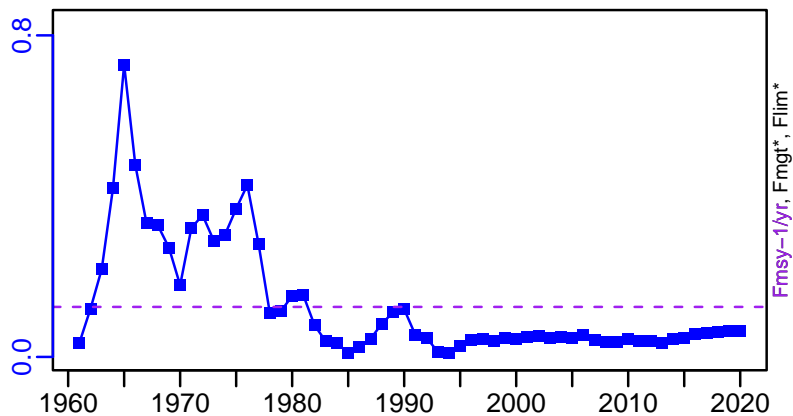
TB-MT (1961–2015–SISIMP2016)



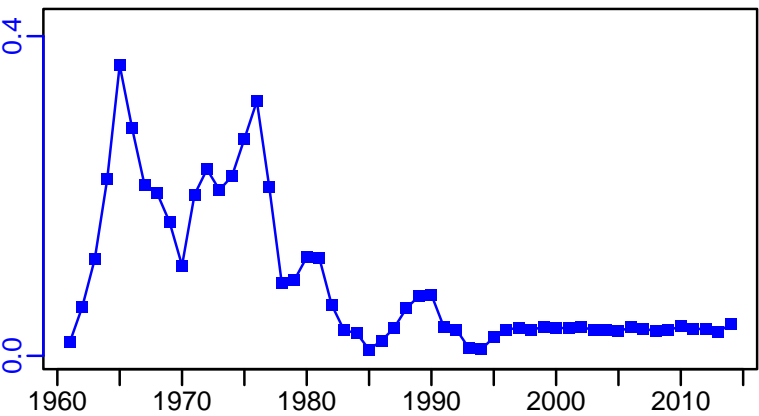
SSB-MT (1959–2021–SISIMP2022)



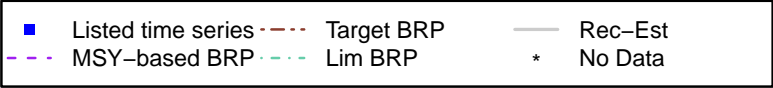
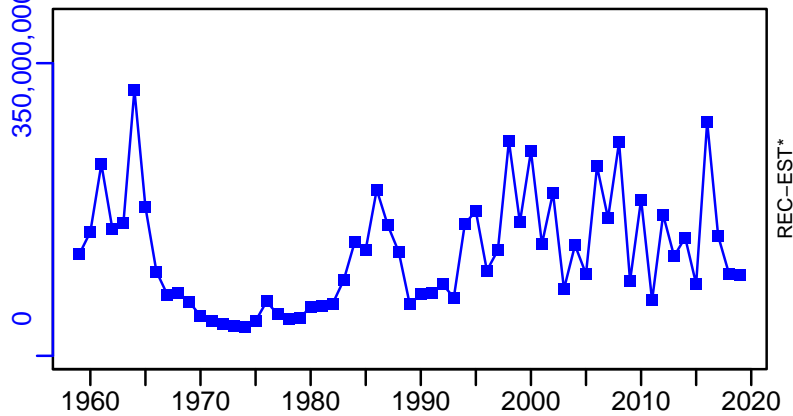
F-1/yr (1959–2021–SISIMP2022)



ER-calc-ratio (1961–2015–SISIMP2016)

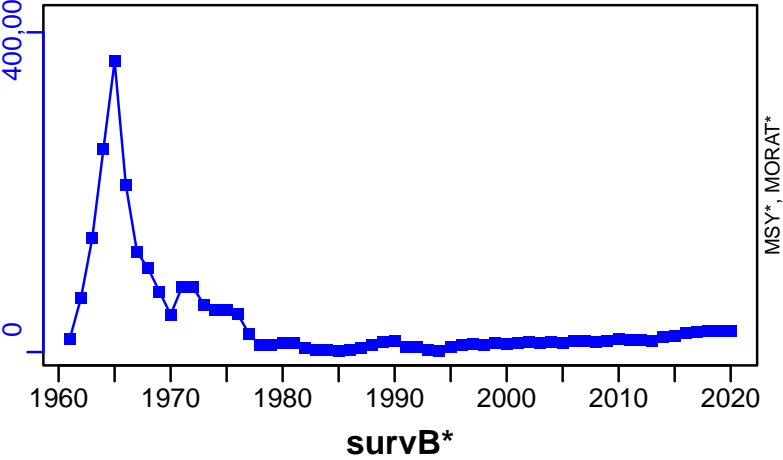


R-E00 (1959–2021–SISIMP2022)



Pacific ocean perch Gulf of Alaska [POPERCHGA]

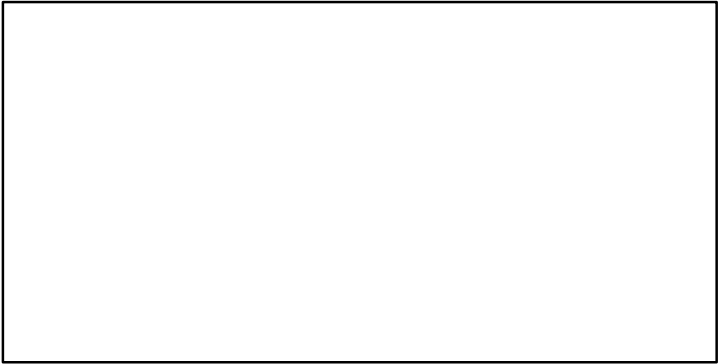
TC-MT, TL*, RecC* (1959-2021-SISIMP2022)



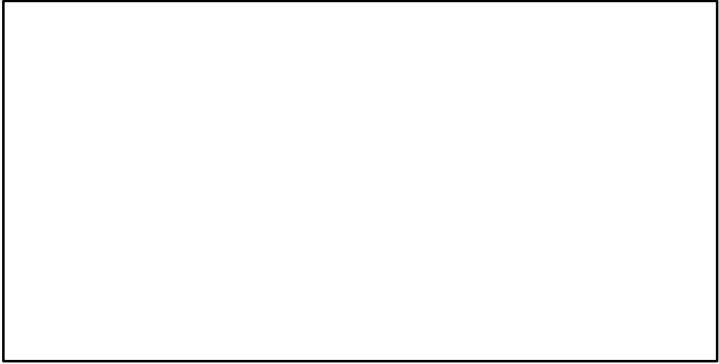
TAC*, Cpair*, Cadv*



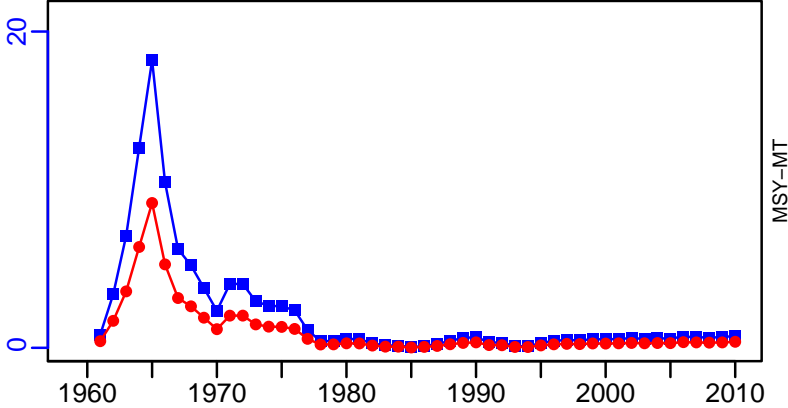
CPUE*



EFFORT*



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



Rex sole Gulf of Alaska [REXSOLEGA]

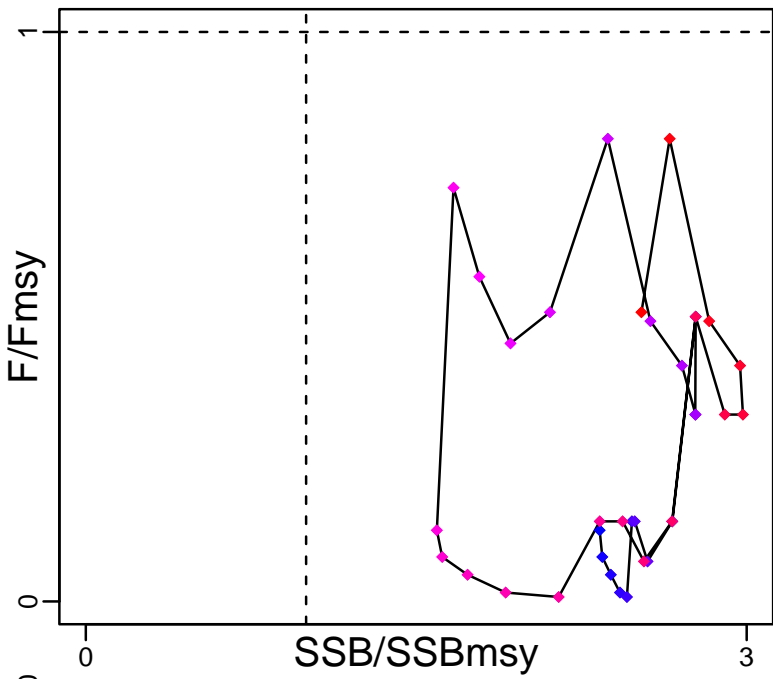
Metadata	
Scientific Name	Glyptocephalus zachirus
Current Assess ID	AFSC-REXSOLEGA-1982-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2014, 2016, 2017, 2018

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

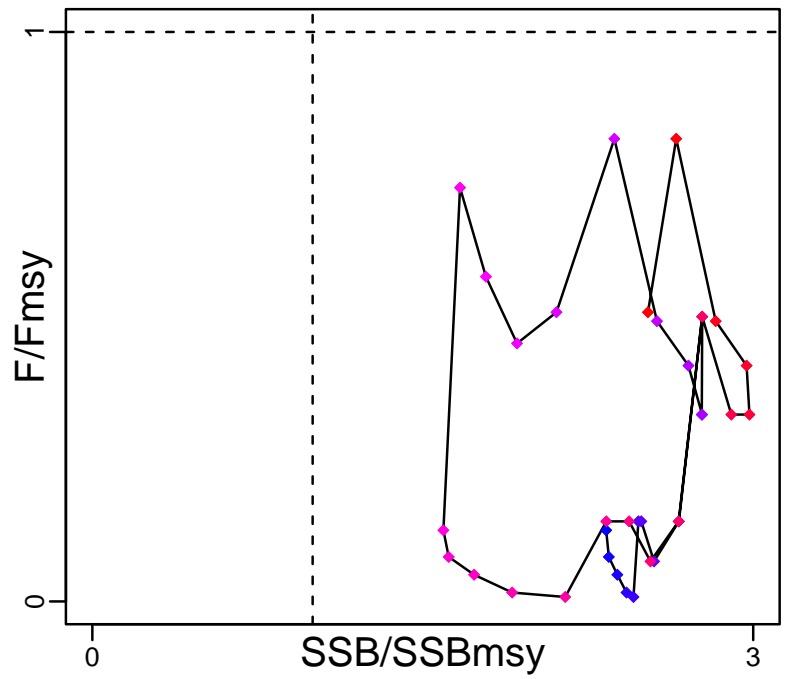
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	43,731	-	-
SSB	SSB-MT	2018	36,411	-	-
TN	-	-	-	-	-
R	R-E00	2018	78,656,292	-	0
F	F-1/yr	2018	0.025	-	-
ER	ER-ratio	2016	0.047	-	-
TC	TC-MT	2018	1483		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2016	2.198		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.408		
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]

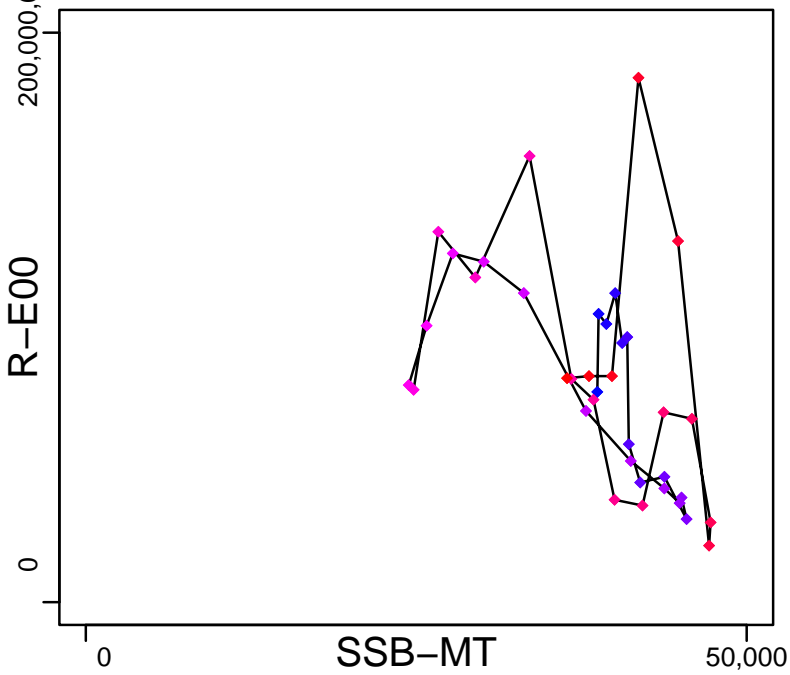
Kobe MSY_{pref} (1982–2017–SISIMP2021)



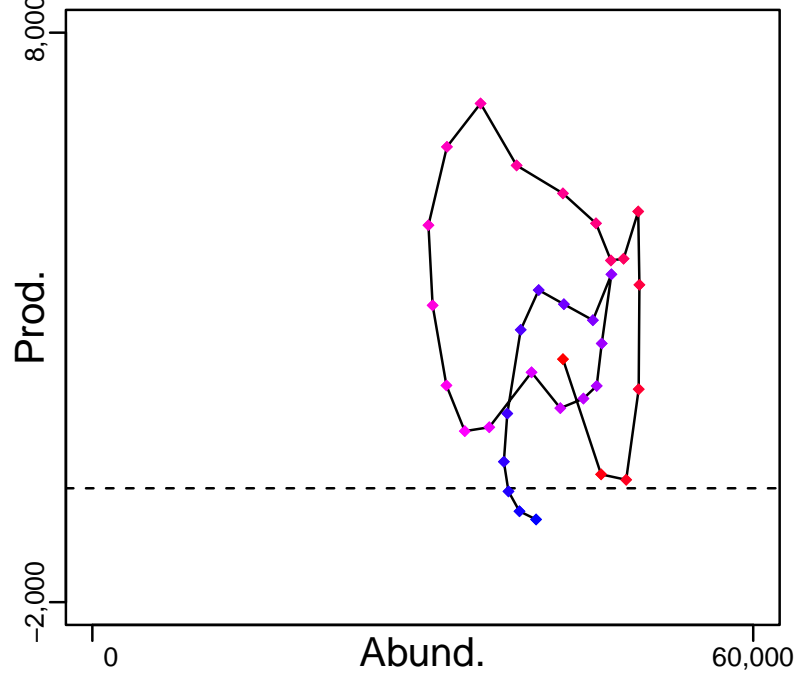
Kobe MGT_{pref} (1982–2017–SISIMP2021)



Spawner Recruit (1982–2018–SISIMP2021)



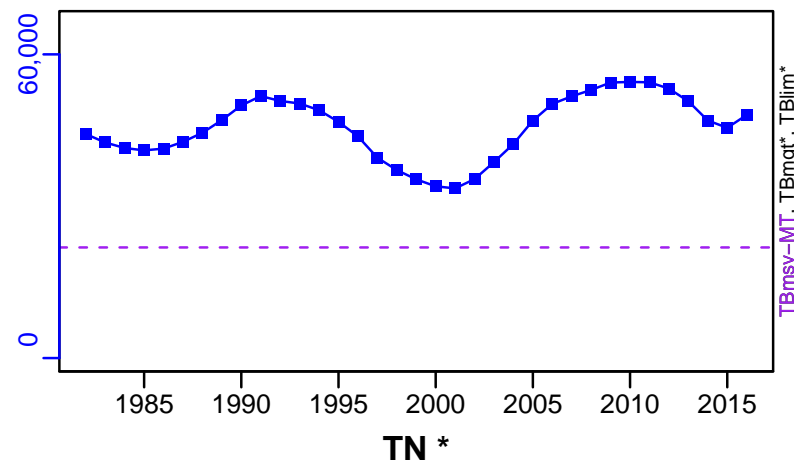
Production (1982–2016–SISIMP2021)



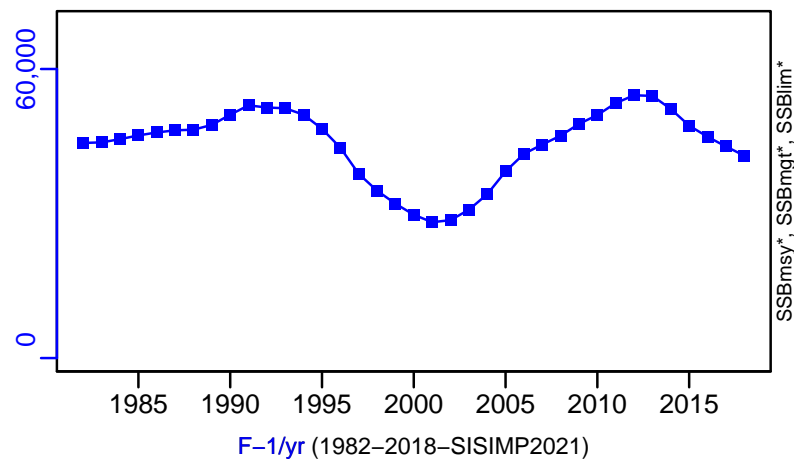
◆ Start Year ◆ End Year * No Data

Rex sole Gulf of Alaska [REXSOLEGA]

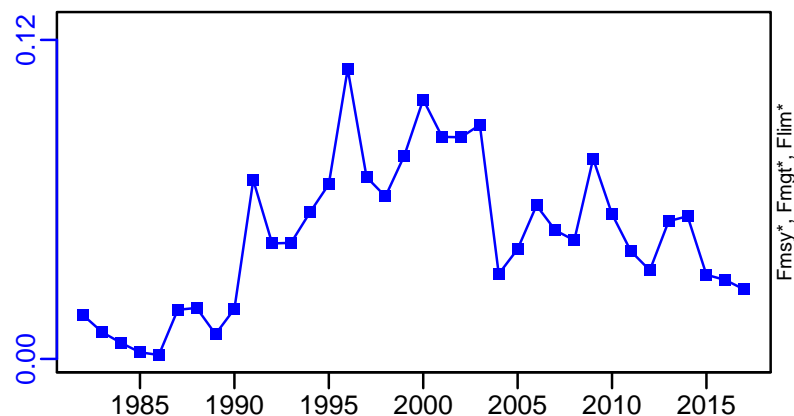
TB-MT (1982–2016–SISIMP2021)



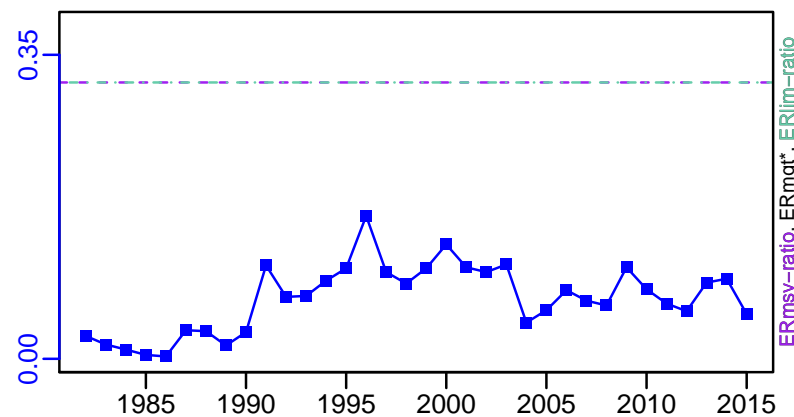
SSB-MT (1982–2018–SISIMP2021)



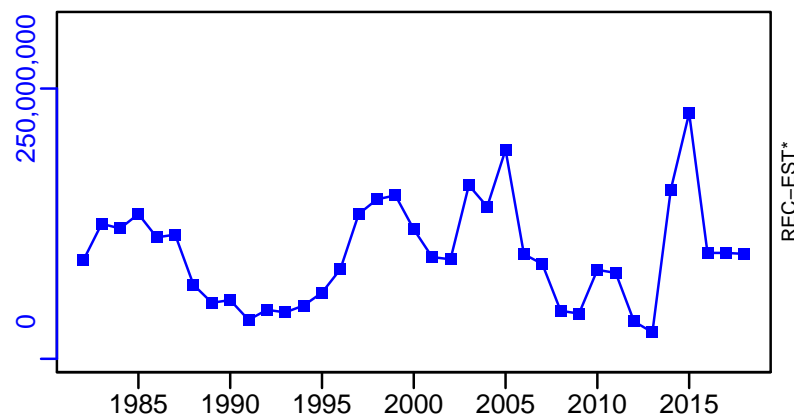
F-1/yr (1982–2018–SISIMP2021)



ER-ratio (1982–2016–SISIMP2021)



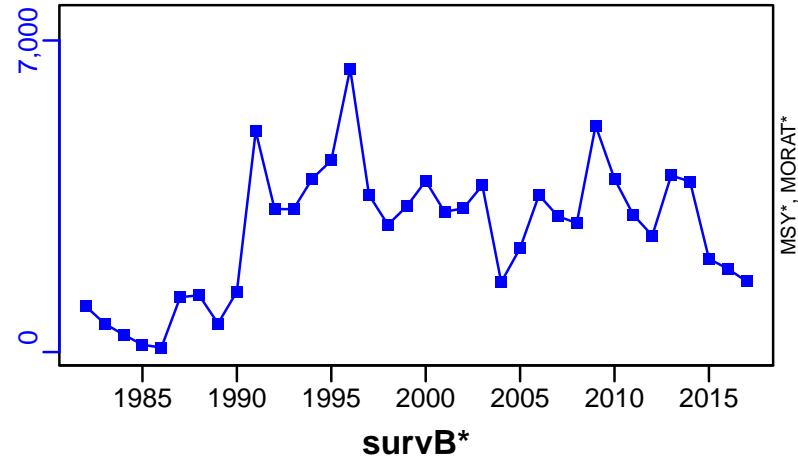
R-E00 (1982–2018–SISIMP2021)



Rex sole Gulf of Alaska [REXSOLEGA]

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

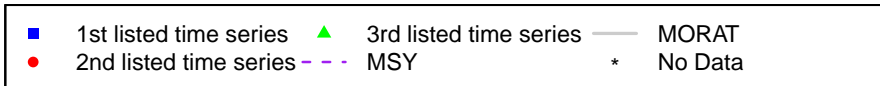
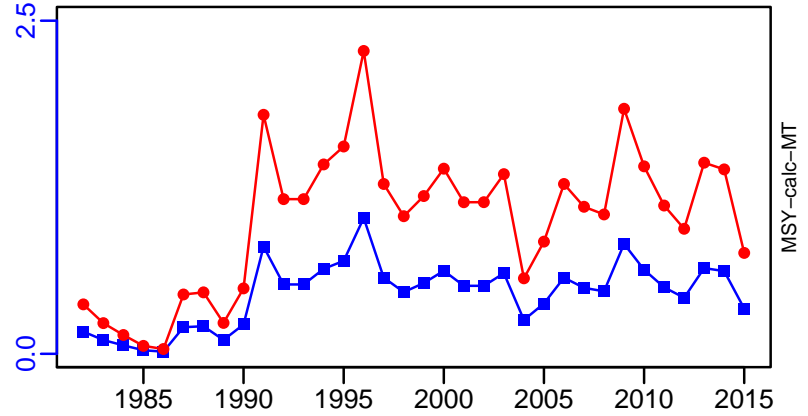
TAC*, Cpair*, Cadv*



EFFORT*



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



Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

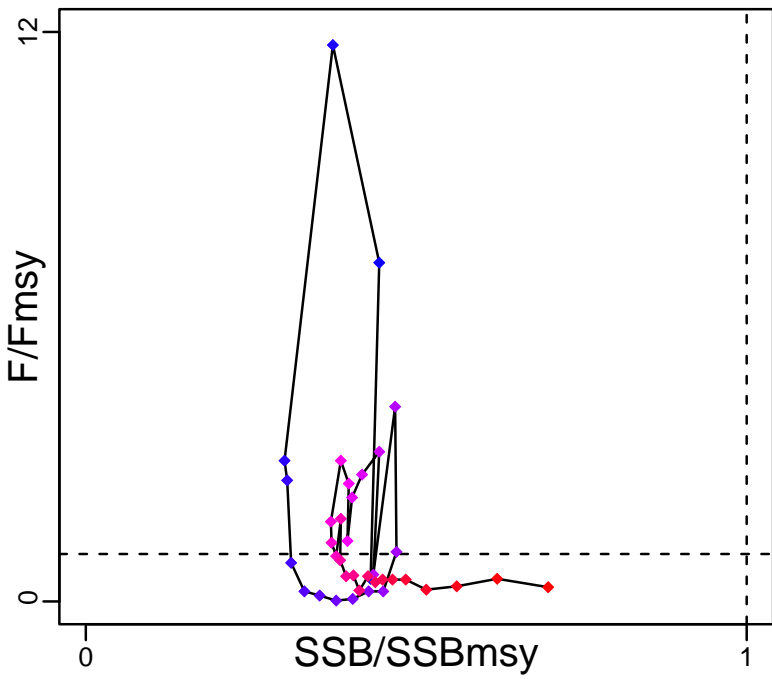
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKBSAI-1974-2015-HIVELY
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

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

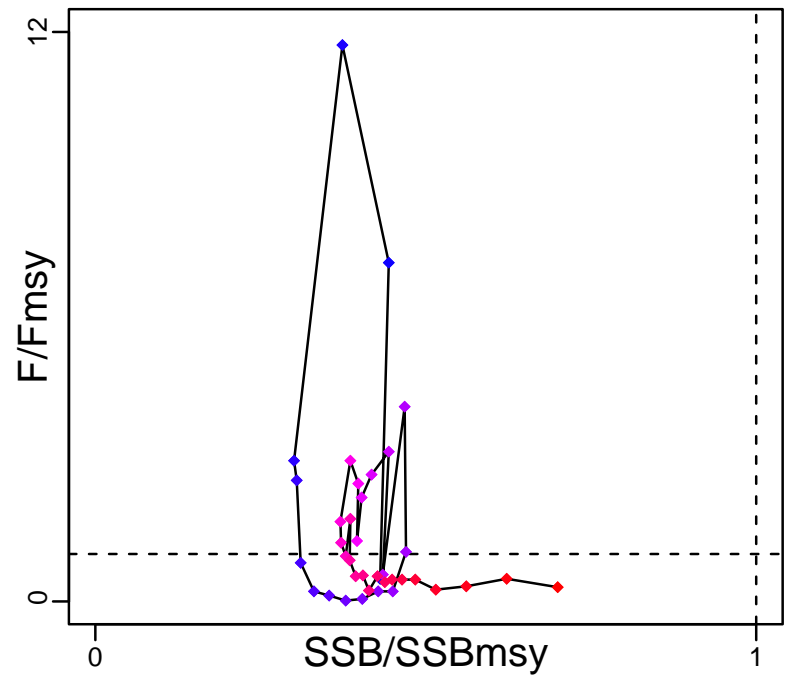
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	40,400	Both	3+
SSB	SSB-MT	2015	6980	Females	3+
TN	-	-	-	-	-
R	R-E00	2015	1,560,000	-	3
F	F-1/yr	2015	0.017	-	-
ER	ER-calc-ratio	2015	0.005	-	-
TC	TC-MT	2015	194		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.7		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

Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

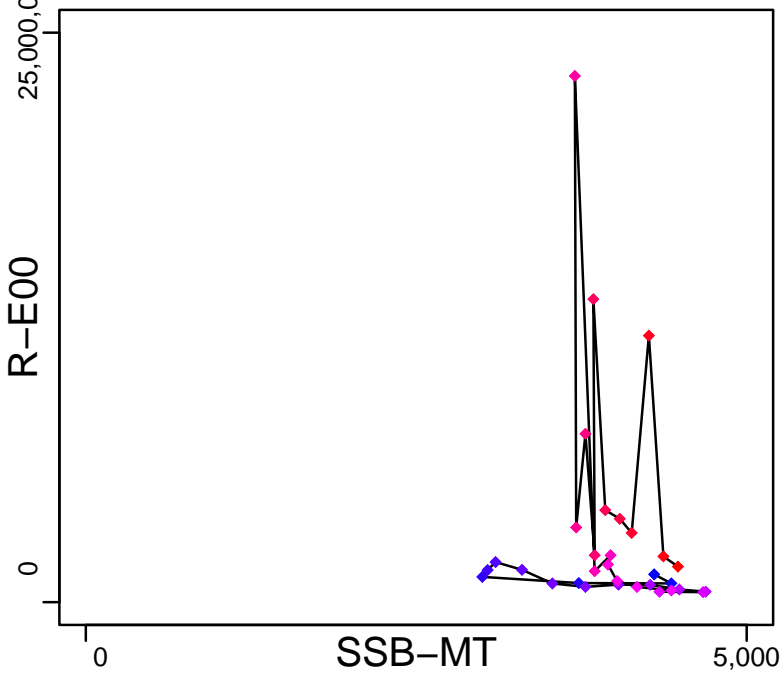
Kobe MSYpref (1974–2015–HIVELY)



Kobe MGTpref (1974–2015–HIVELY)



Spawner Recruit (1974–2015–HIVELY)



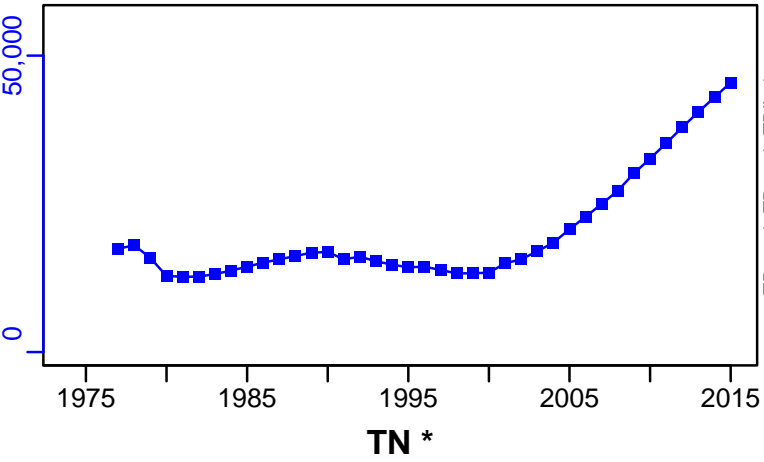
Production*



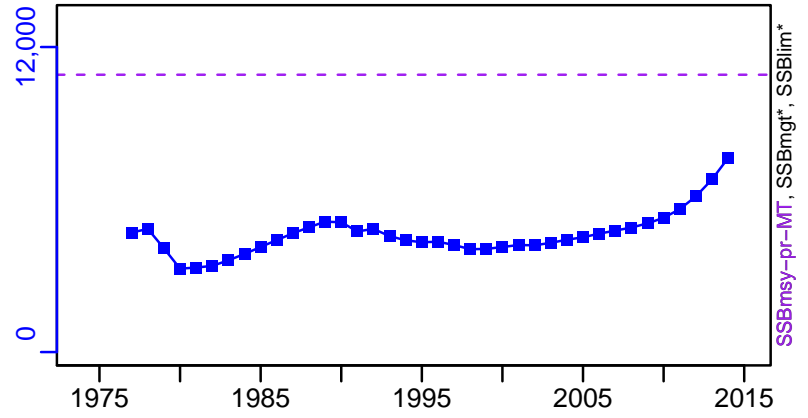
◆ Start Year ◆ End Year * No Data

Roughye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

TB-MT (1974–2015–HIVELY)



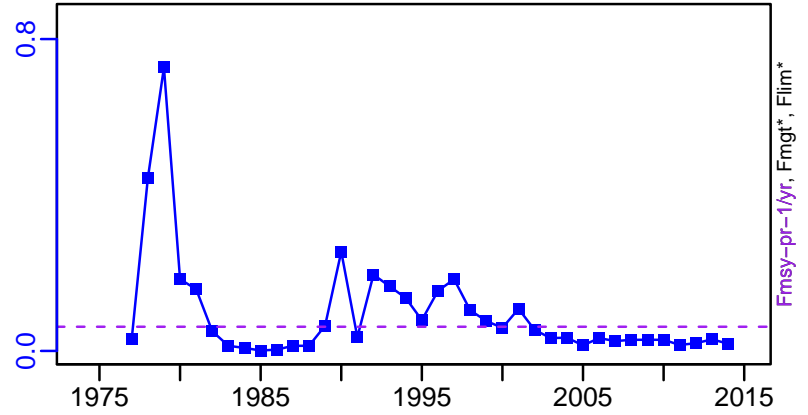
SSB-MT (1974–2015–HIVELY)



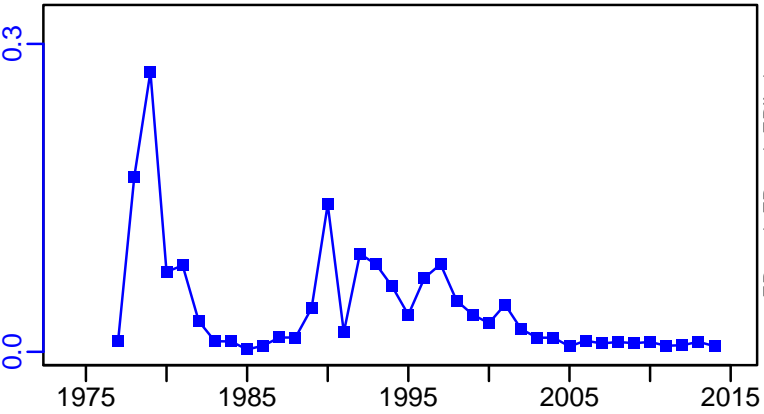
TN *



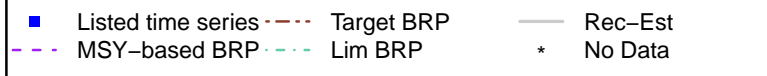
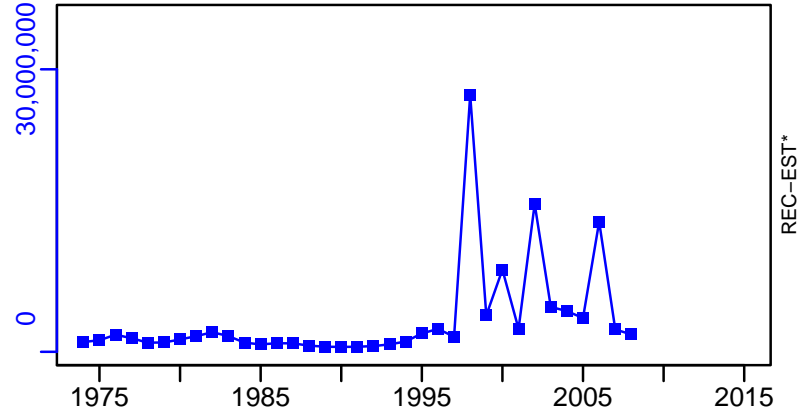
F-1/yr (1974–2015–HIVELY)



ER-calc-ratio (1974–2015–HIVELY)



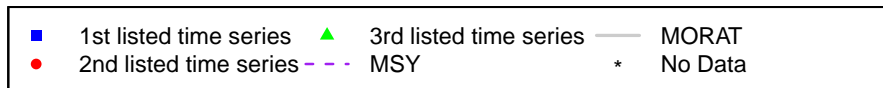
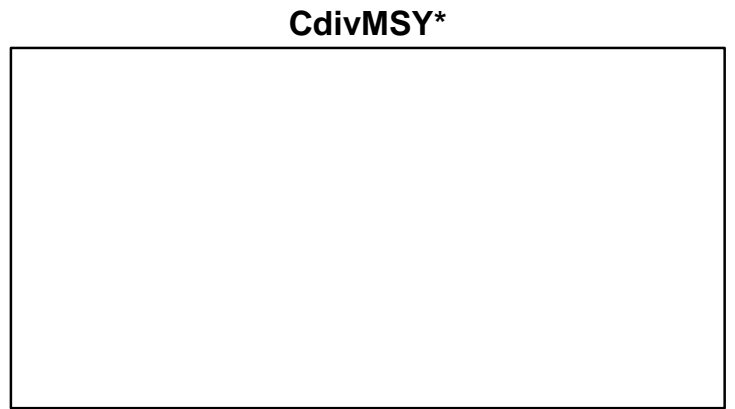
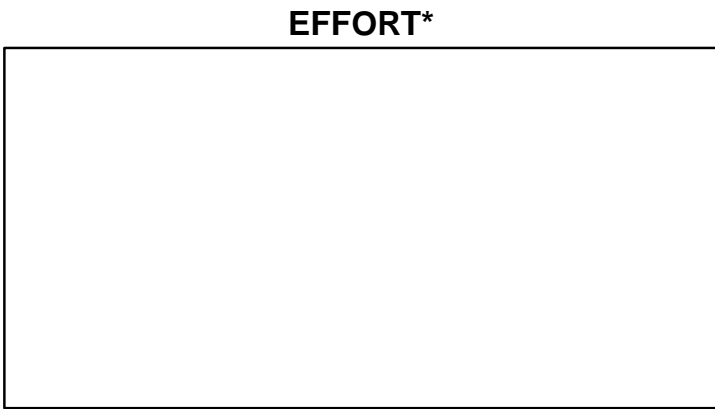
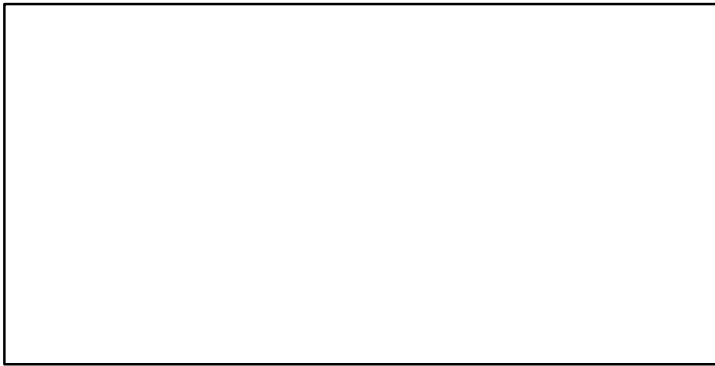
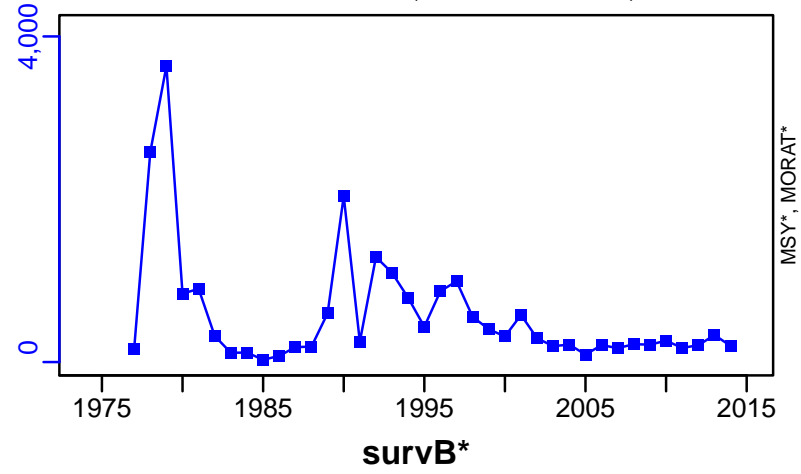
R-E00 (1974–2015–HIVELY)



Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

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

TAC*, Cpair*, Cadv*



Rougheye rockfish Gulf of Alaska [REYEROCKGA]

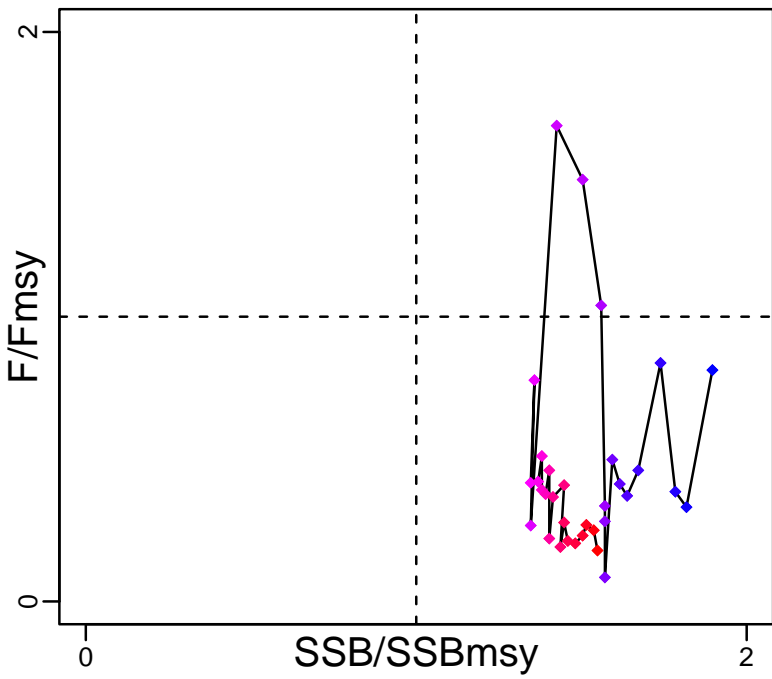
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKGA-1974-2010-STACHURA
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010

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

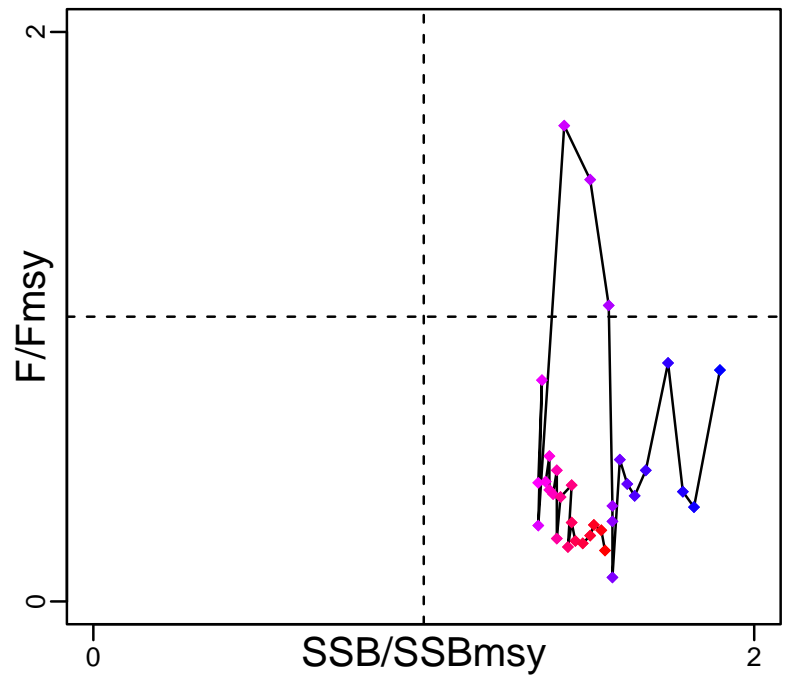
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	45,400	-	-
SSB	SSB-MT	2010	13,800	Females	19+
TN	-	-	-	-	-
R	R-E00	2010	1,160,000	-	-
F	F-1/yr	2010	0.009	-	-
ER	ER-ratio	2010	0.006	-	-
TC	TC-MT	2010	445		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2010	1.548		
F/Fmsy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

Rougheye rockfish Gulf of Alaska [REYEROCKGA]

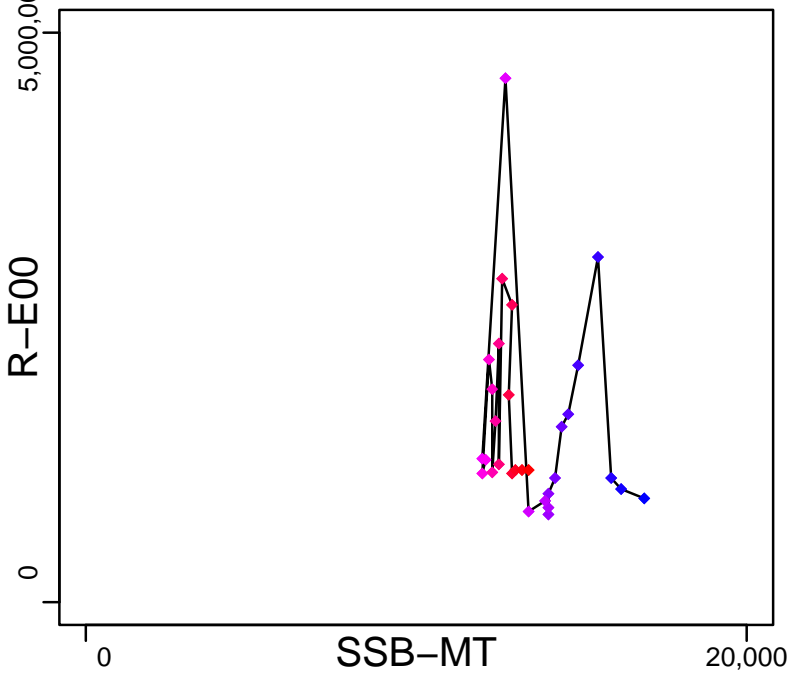
Kobe MSYpref (1974–2010–STACHURA)



Kobe MGTpref (1974–2010–STACHURA)



Spawner Recruit (1974–2010–STACHURA)



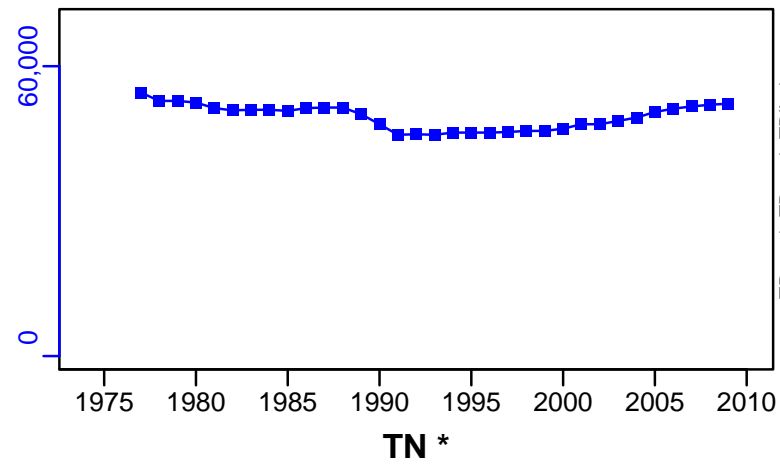
Production*



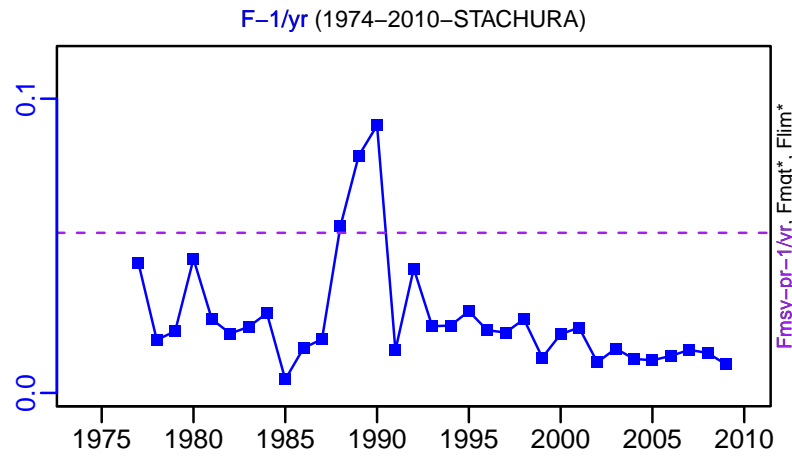
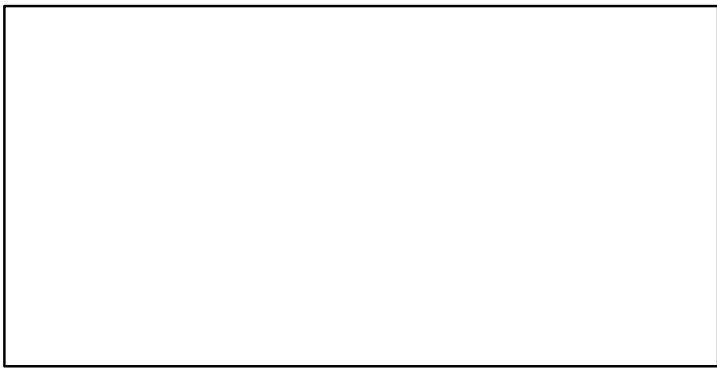
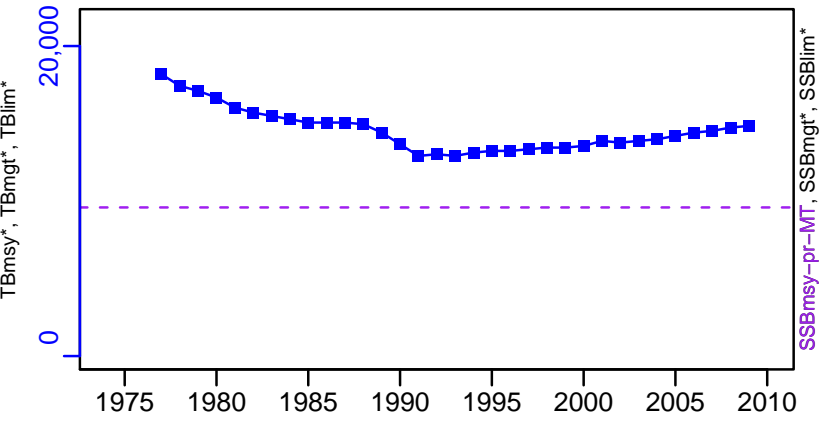
◆ Start Year ◆ End Year * No Data

Rougheye rockfish Gulf of Alaska [REYEROCKGA]

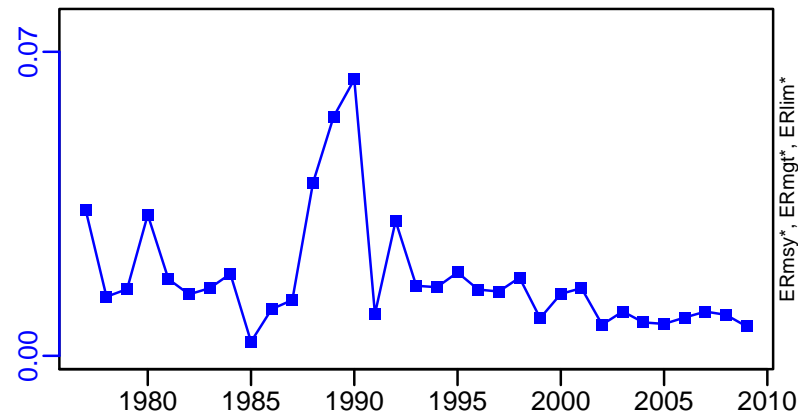
TB-MT (1974-2010-STACHURA)



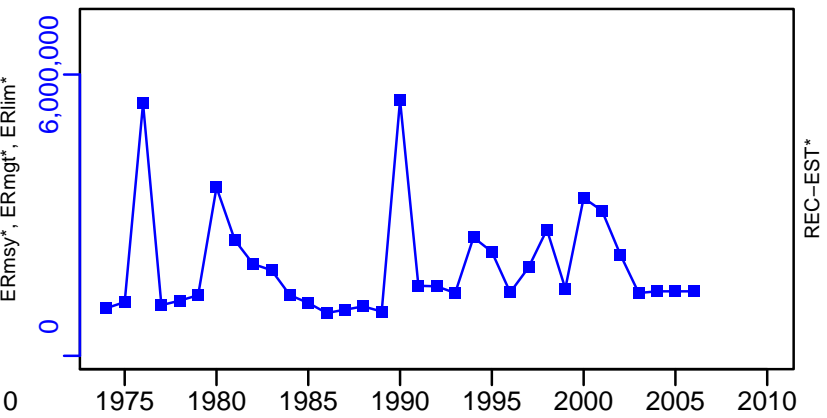
SSB-MT (1974-2010-STACHURA)



ER-ratio (1974-2010-STACHURA)

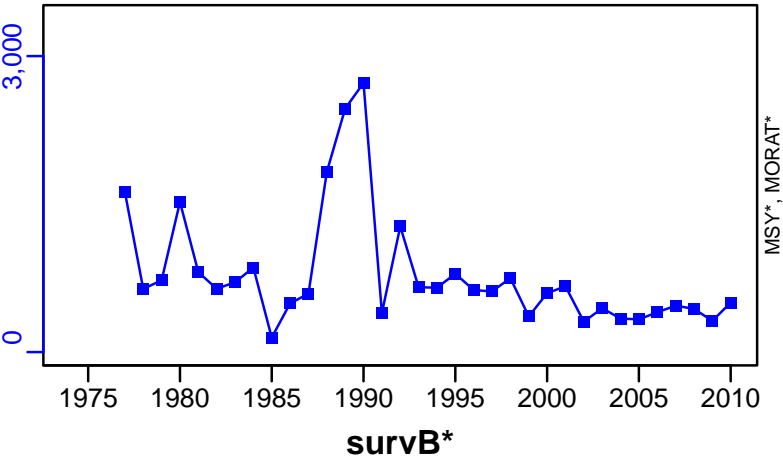


R-E00 (1974-2010-STACHURA)



Rougheye rockfish Gulf of Alaska [REYEROCKGA]

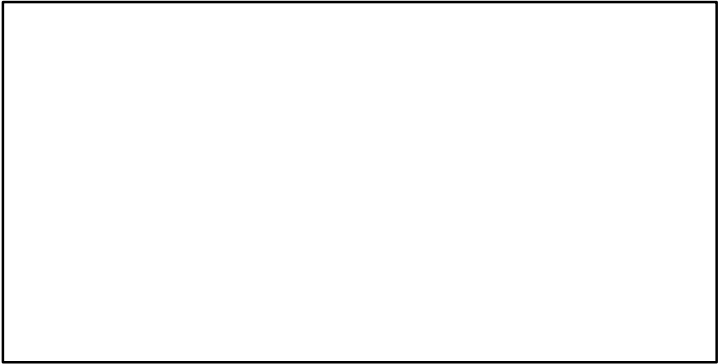
TC-MT, TL*, RecC* (1974-2010-STACHURA)



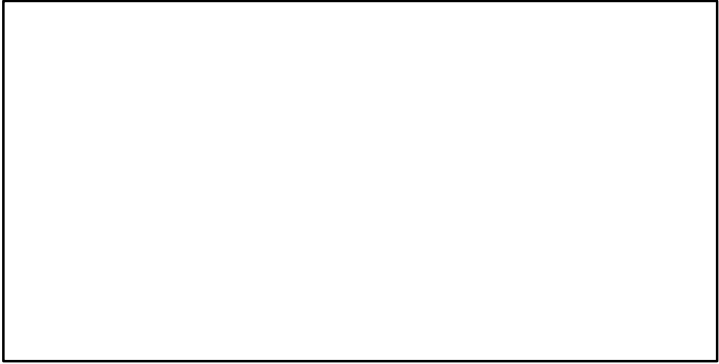
TAC*, Cpair*, Cadv*



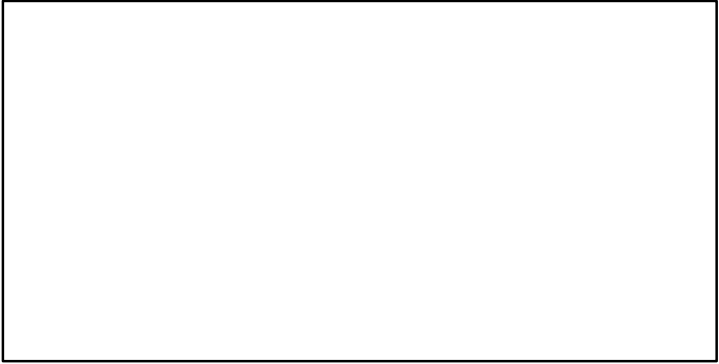
CPUE*



EFFORT*



CdivMSY*



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]

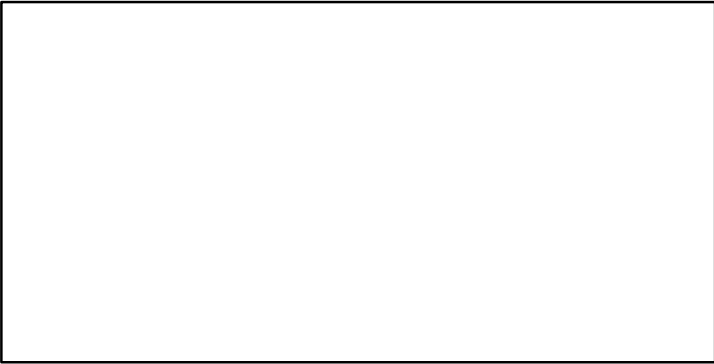
TB*



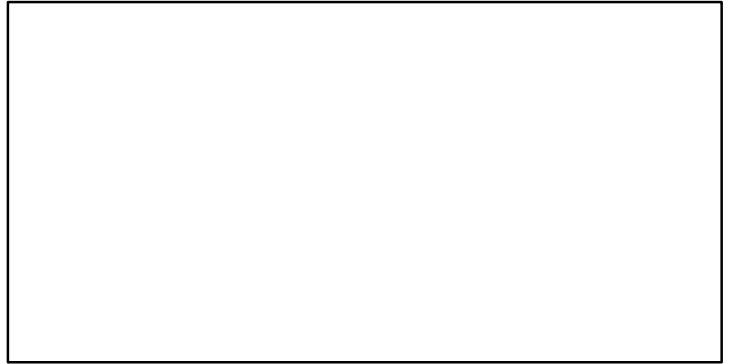
SSB*



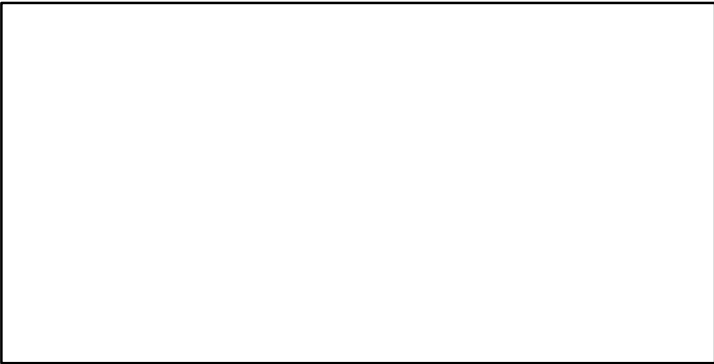
TN *



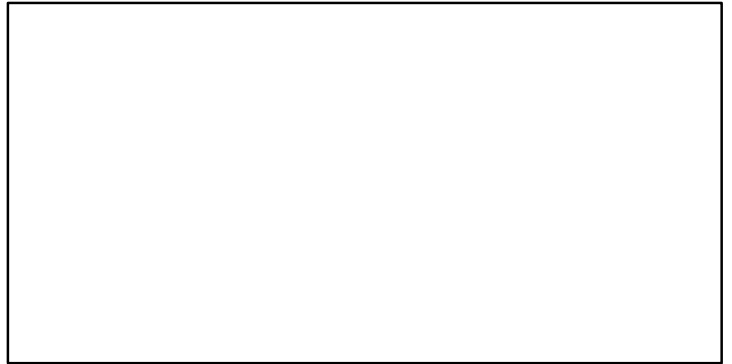
F*



ER*



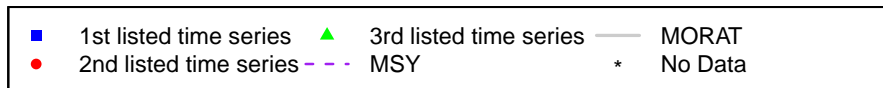
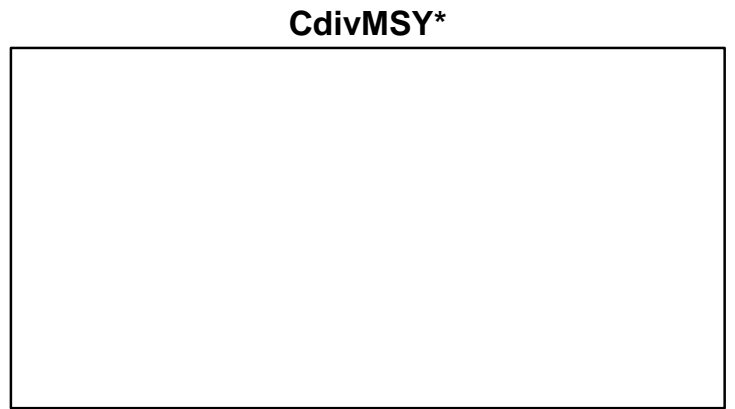
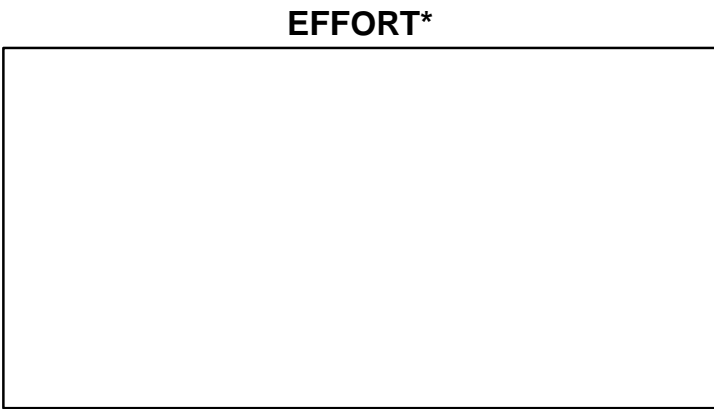
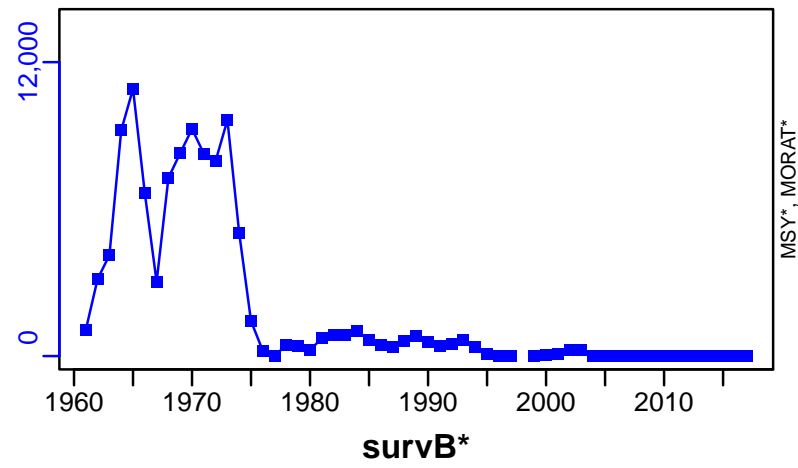
Recruits*



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]

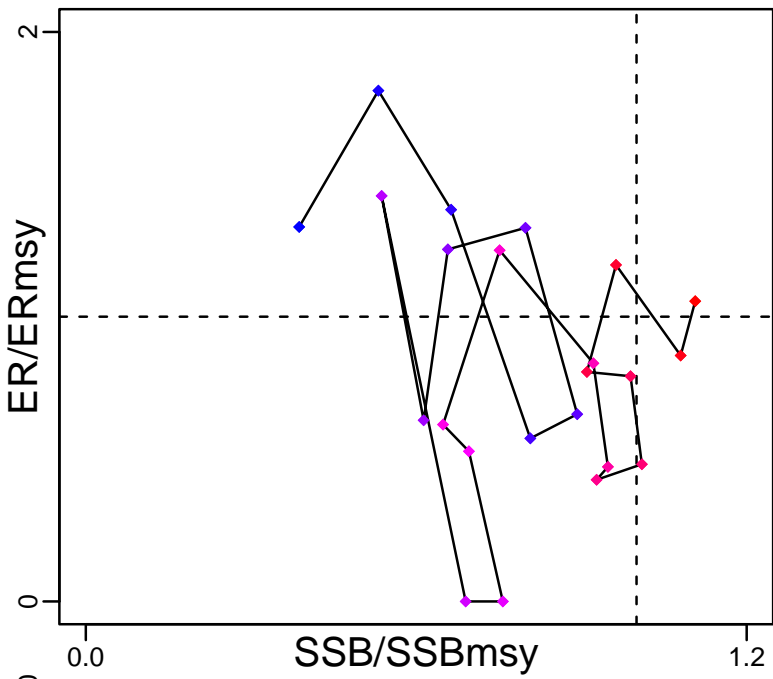
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRA BBB-1975-2021-SISIMP2022
Area	Bristol Bay
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2018, 2019, 2020, 2008, 2015, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	25,400
SSBmsy	SSBmsy-MT	2021	24,200
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2008	0.33
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2008	23,646
M	-	-	-
TBlim	TBlim-MT	2020	12,700
SSBlim	SSBlim-MT	2018	12,740
Flim	-	-	-
ERlim	-	-	-

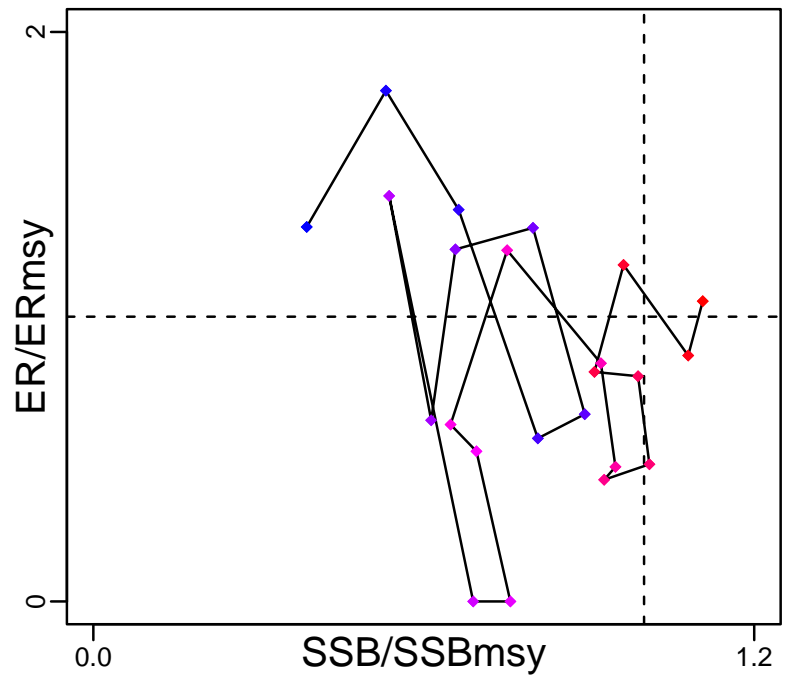
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	14,900	-	-
SSB	SSB-MT	2021	14,795	Males	-
TN	-	-	-	-	-
R	R-E00	2021	3,849,000	-	-
F	F-1/yr	2016	0.167	-	-
ER	ER-calc-ratio	2020	0.156	-	-
TC	TC-MT	2020	2220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2020	0.587		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.611		
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]

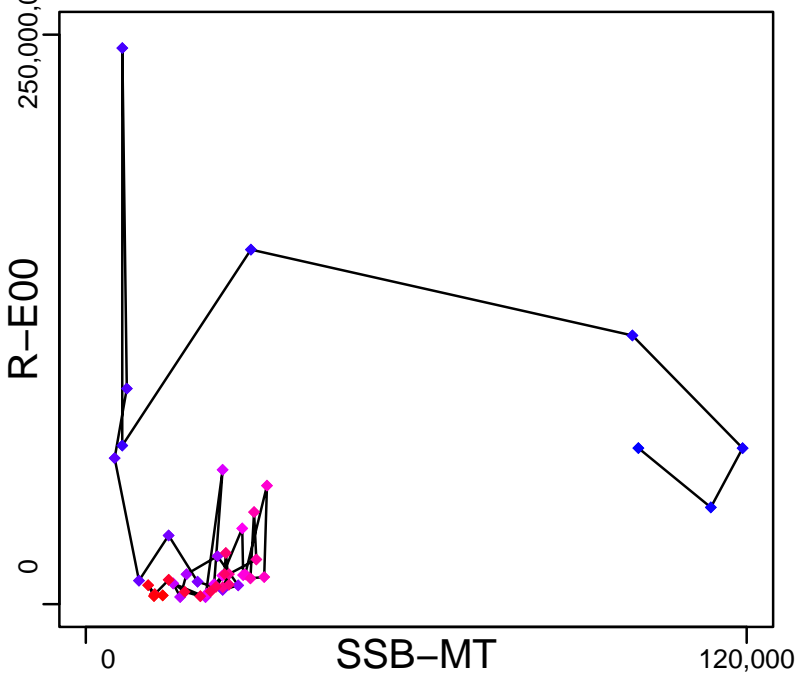
Kobe MSYpref (1960–2008–JENSEN)



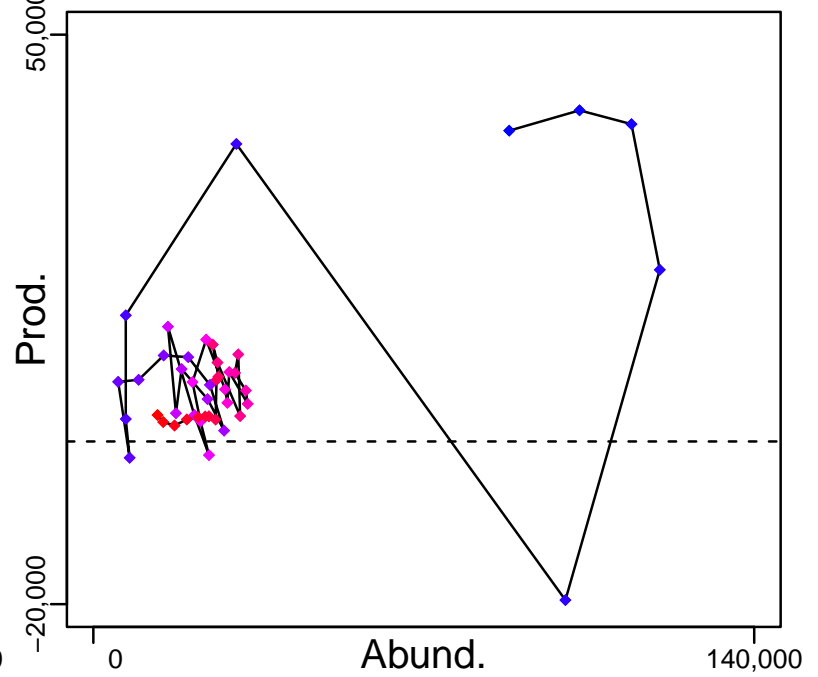
Kobe MGTpref (1960–2008–JENSEN)



Spawner Recruit (1975–2021–SISIMP2022)



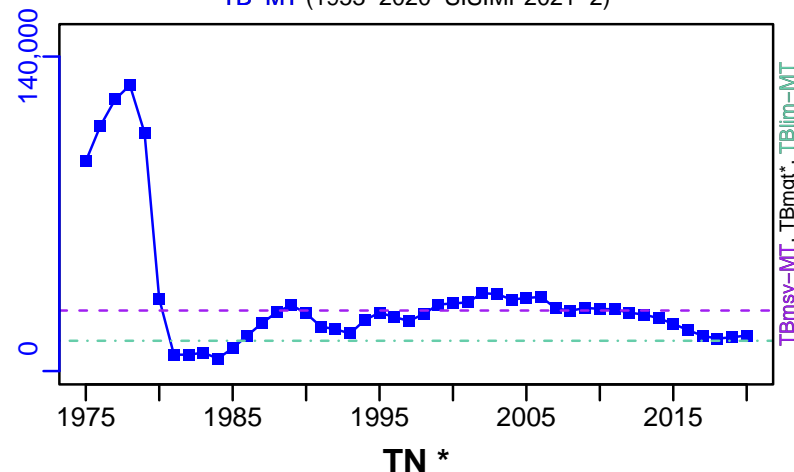
Production (1953–2020–SISIMP2021–2)



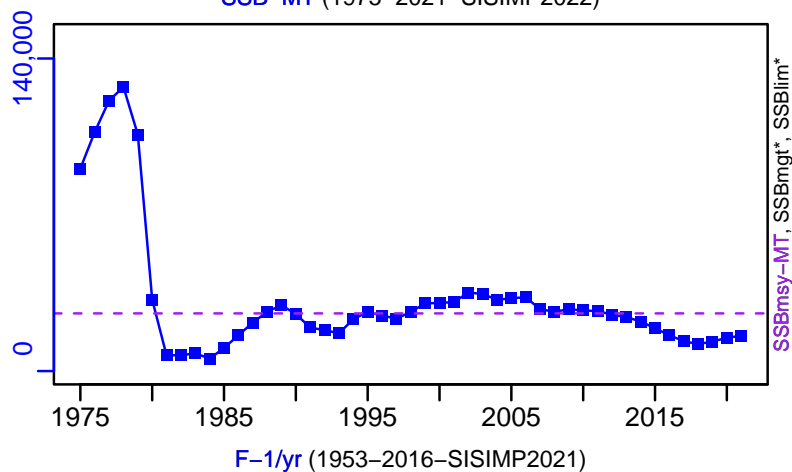
◆ Start Year ◆ End Year * No Data

Red king crab Bristol Bay [RKCRABBB]

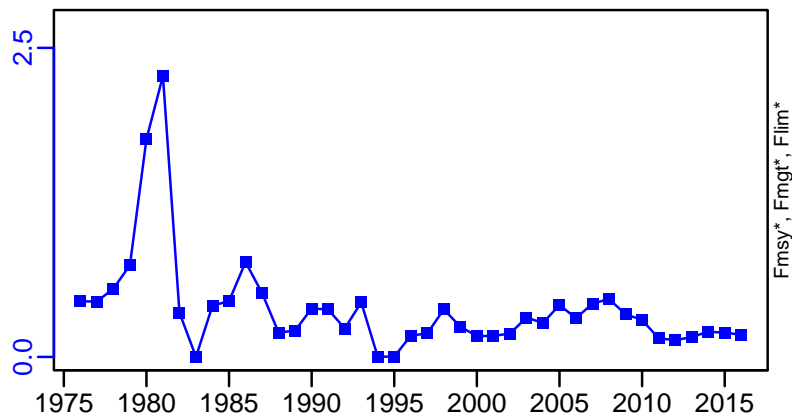
TB-MT (1953–2020–SISIMP2021–2)



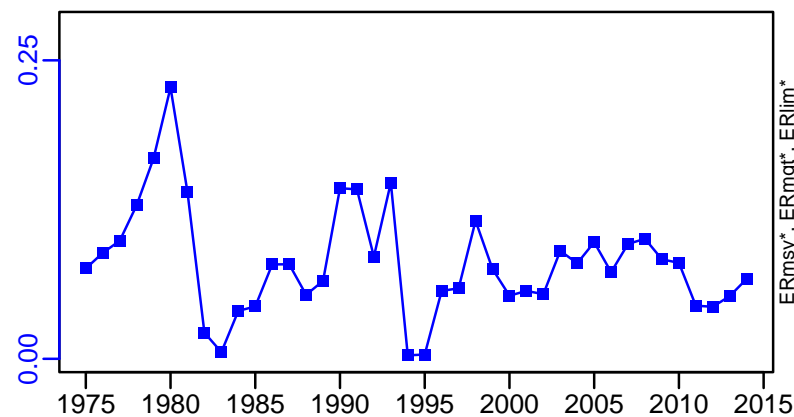
SSB-MT (1975–2021–SISIMP2022)



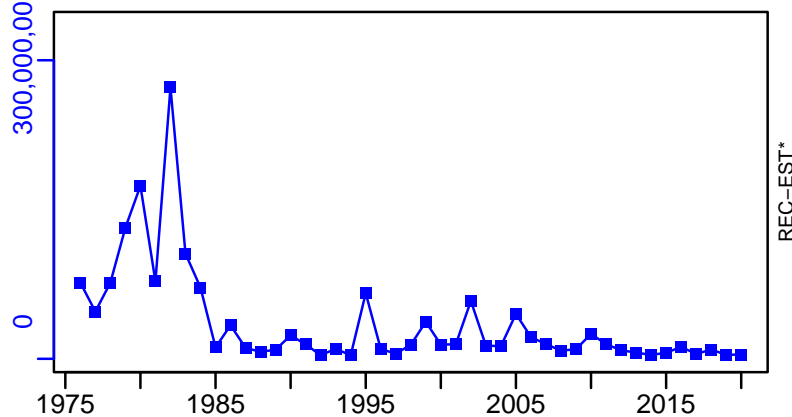
F-1/yr (1953–2016–SISIMP2021)



ER-calc-ratio (1975–2015–SISIMP2016)

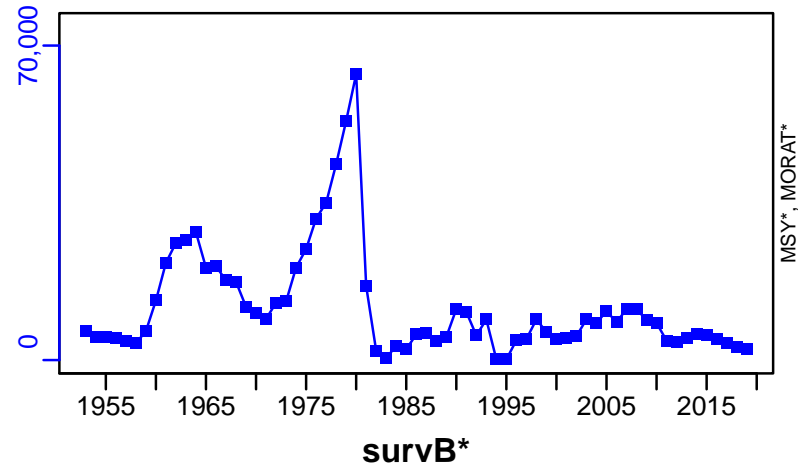


R-E00 (1975–2021–SISIMP2022)



Red king crab Bristol Bay [RKCRA BBB]

TC-MT, TL*, RecC* (1953-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



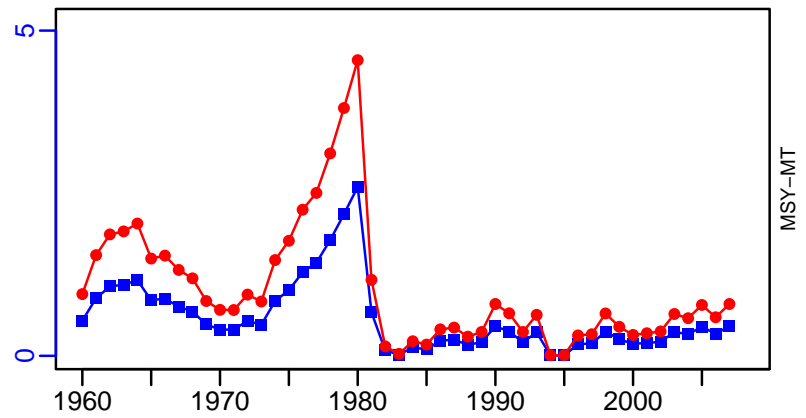
CPUE*



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 [RKCRA BNS]

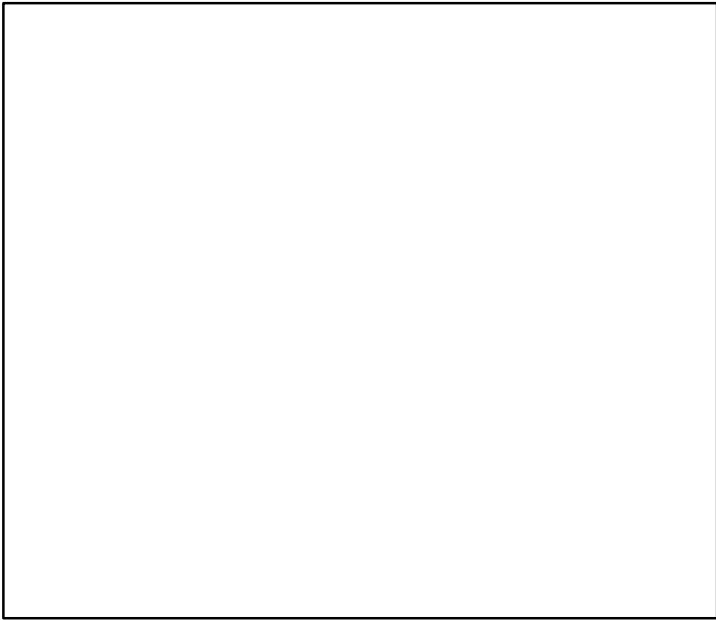
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRA BNS-1976-2019-SISIMP2021-2
Area	Norton Sound
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	2073
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	1016
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	1415	-	-
TN	-	-	-	-	-
R	R-MT	2019	386	-	0
F	-	-	-	-	-
ER	ER-ratio	2019	0.035	-	-
TC	TC-MT	2019	136		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.683		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Norton Sound [RKCRABNS]

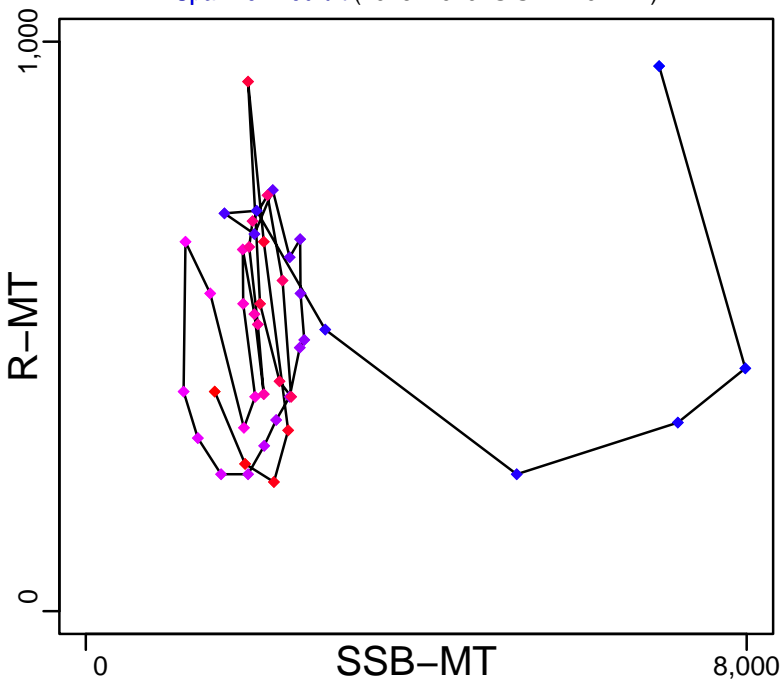
Kobe MSY*



Kobe MGT*



Spawner Recruit (1976–2019–SISIMP2021–2)



Production*



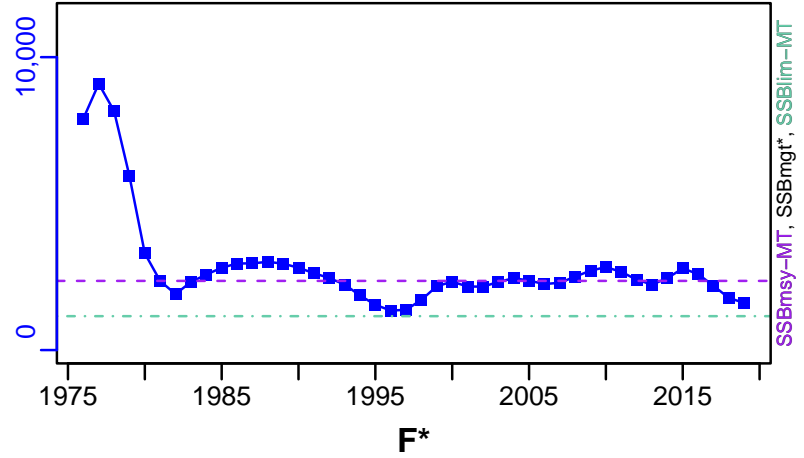
◆ Start Year ◆ End Year * No Data

Red king crab Norton Sound [RKCRABNS]

TB*



SSB-MT (1976–2019–SISIMP2021–2)



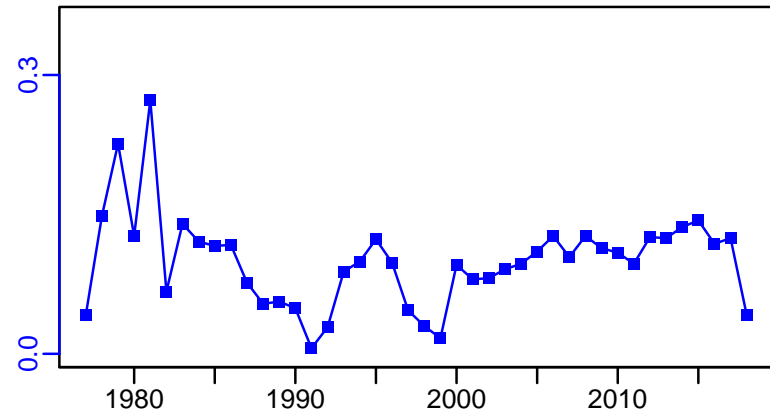
TN *



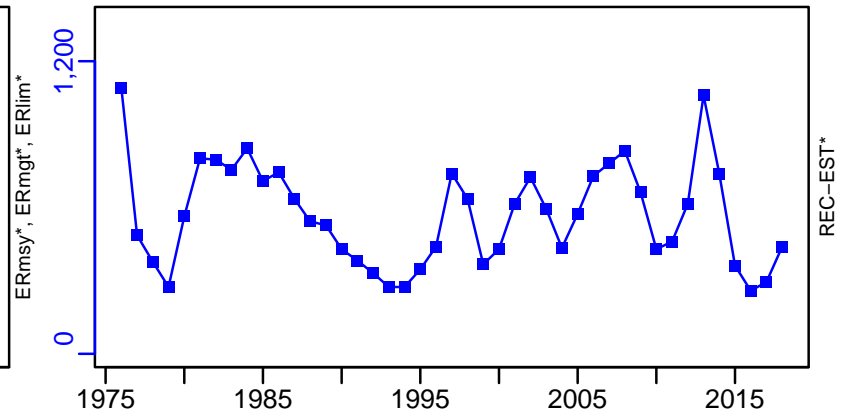
F*



ER-ratio (1976–2019–SISIMP2021–2)



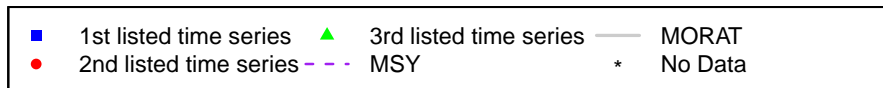
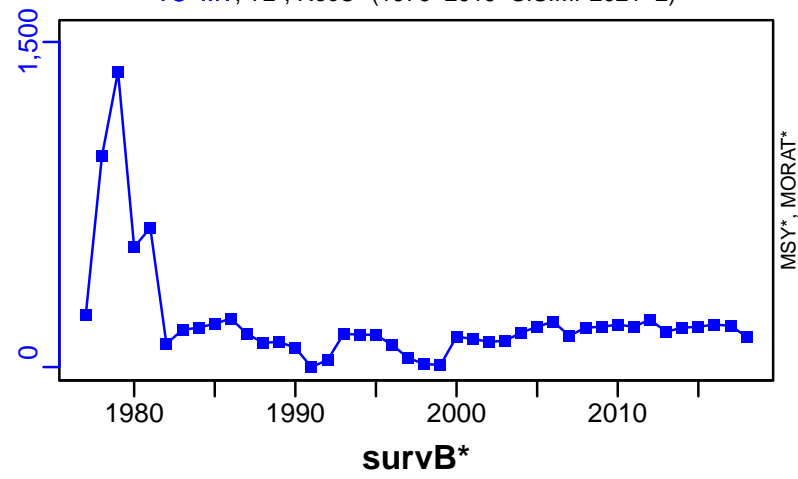
R-MT (1976–2019–SISIMP2021–2)



Red king crab Norton Sound [RKCRABNS]

TC-MT, TL*, RecC* (1976-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Red king crab Pribilof Islands [RKCRAPI]

Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRAPI-1976-2020-SISIMP2021-2
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2020, 2009, 2016, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	1730
SSBmsy	SSBmsy-MT	2009	3928
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2009	0.18
TBlim	TBlim-MT	2020	867
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	5370	-	-
SSB	SSB-MT	2009	5670	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2020	0	-	-
TC	TC-MT	2020	0		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2020	3.104		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	1.443		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Pribilof Islands [RKCRABPI]

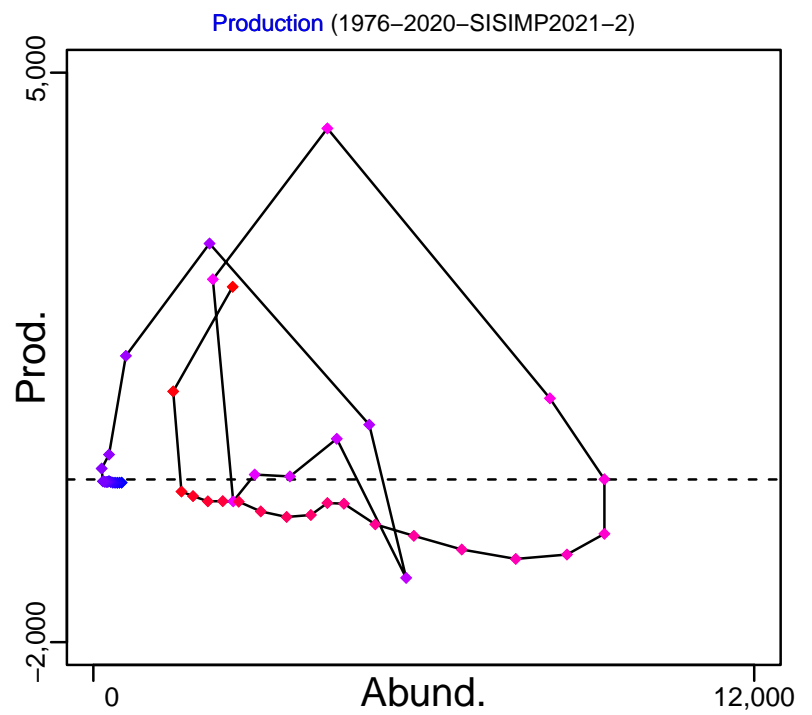
Kobe MSY*



Kobe MGT*



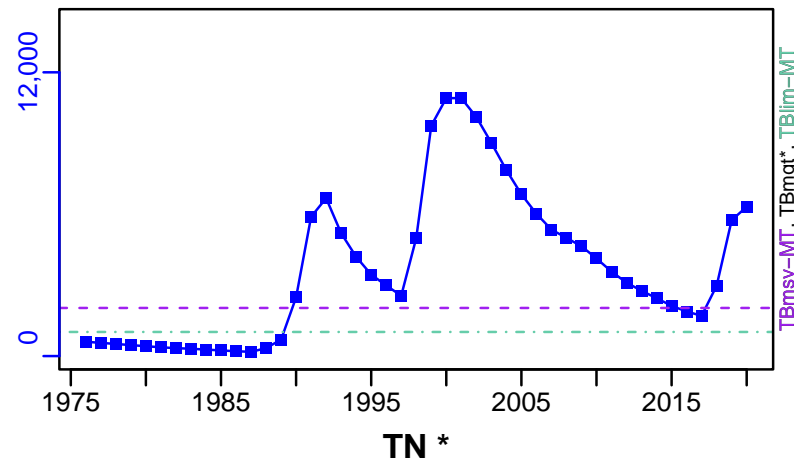
Spawner Recruit*



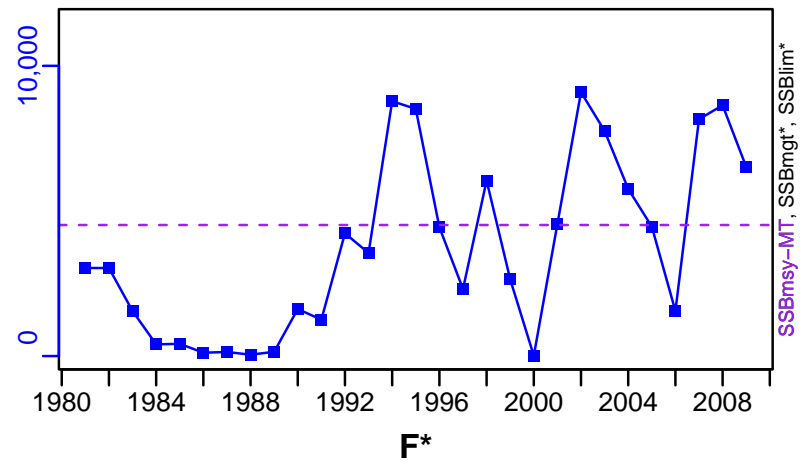
◆ Start Year ◆ End Year * No Data

Red king crab Pribilof Islands [RKCRABPI]

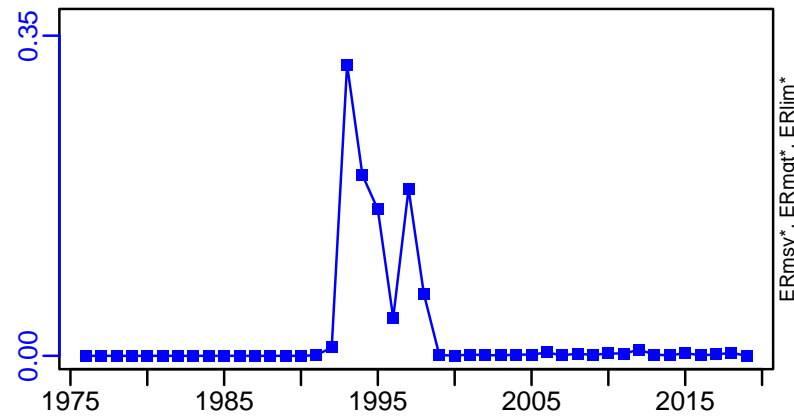
TB-MT (1976–2020–SISIMP2021–2)



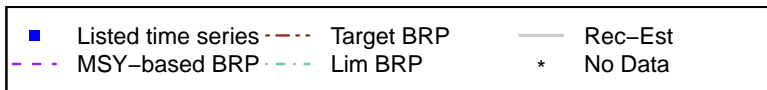
SSB-MT (1981–2009–JENSEN)



ER-calc-ratio (1976–2020–SISIMP2021–2)

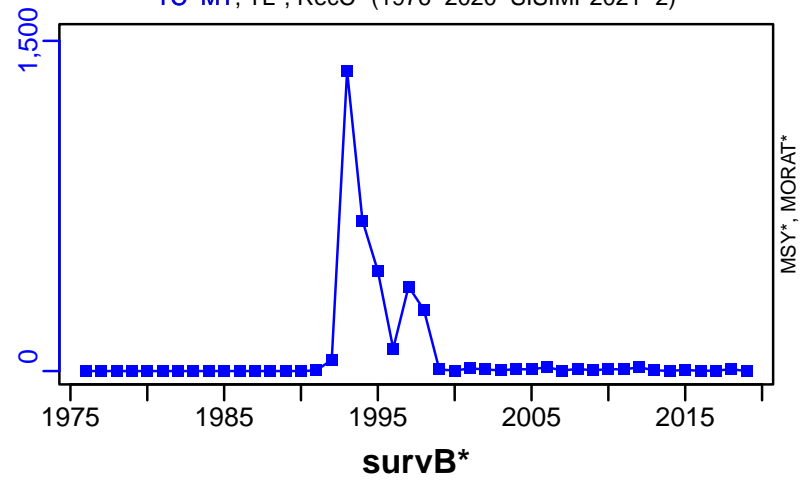


Recruits*



Red king crab Pribilof Islands [RKCRABPI]

TC-MT, TL*, RecC* (1976-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



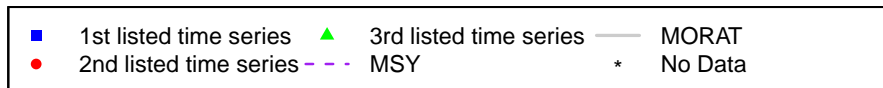
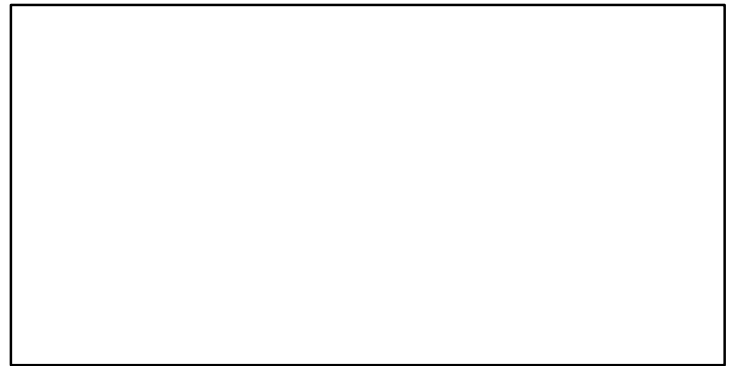
CPUE*



EFFORT*



CdivMSY*



Rock sole Gulf of Alaska [RSOLEGA]

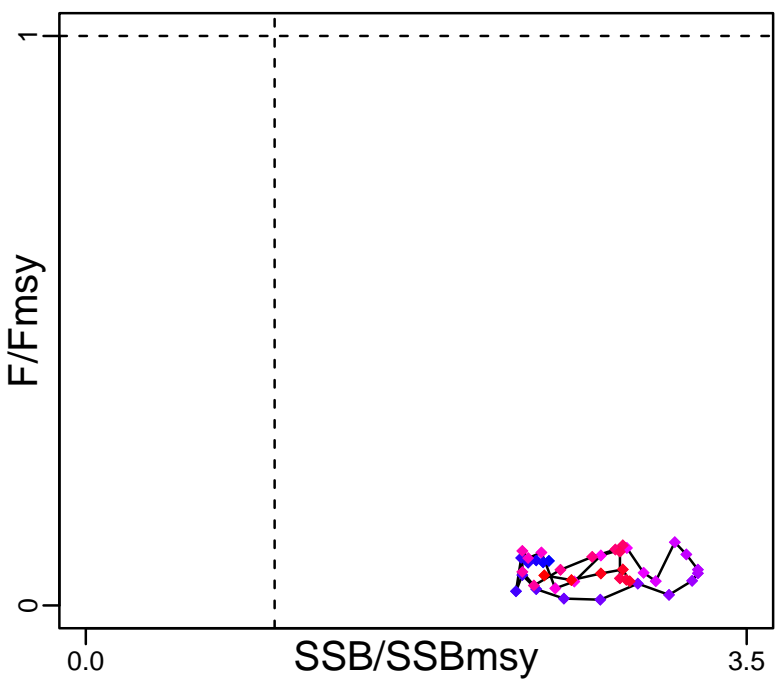
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	AFSC-RSOLEGA-1977-2017-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	32,700
Fmsy	Fmsy-1/yr	2017	0.326
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.243
ERlim	-	-	-

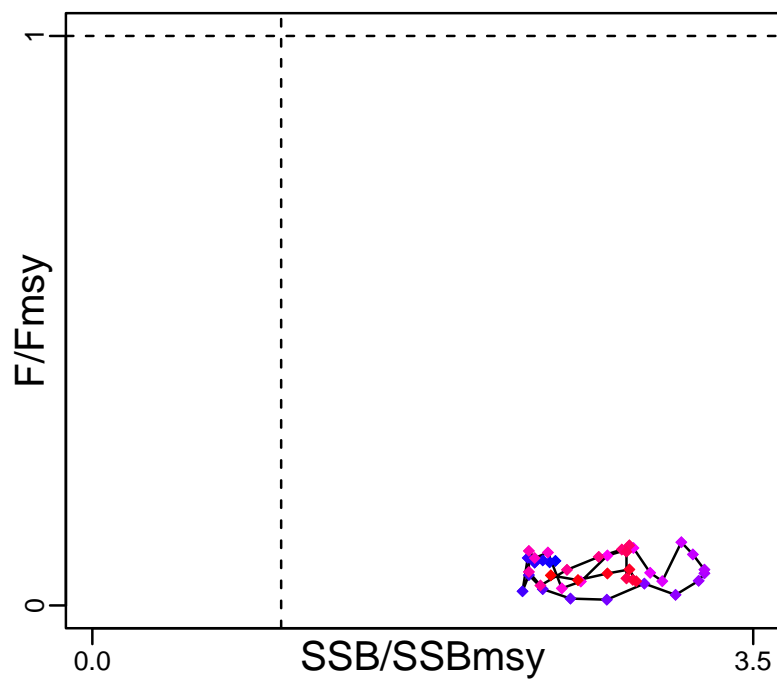
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	156,000	-	3+
SSB	SSB-MT	2017	76,100	-	-
TN	-	-	-	-	-
R	R-E00	2017	2.47×10^8	-	0
F	F-1/yr	2017	0.017	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2017	1500		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.327		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.053		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Gulf of Alaska [RSOLEGA]

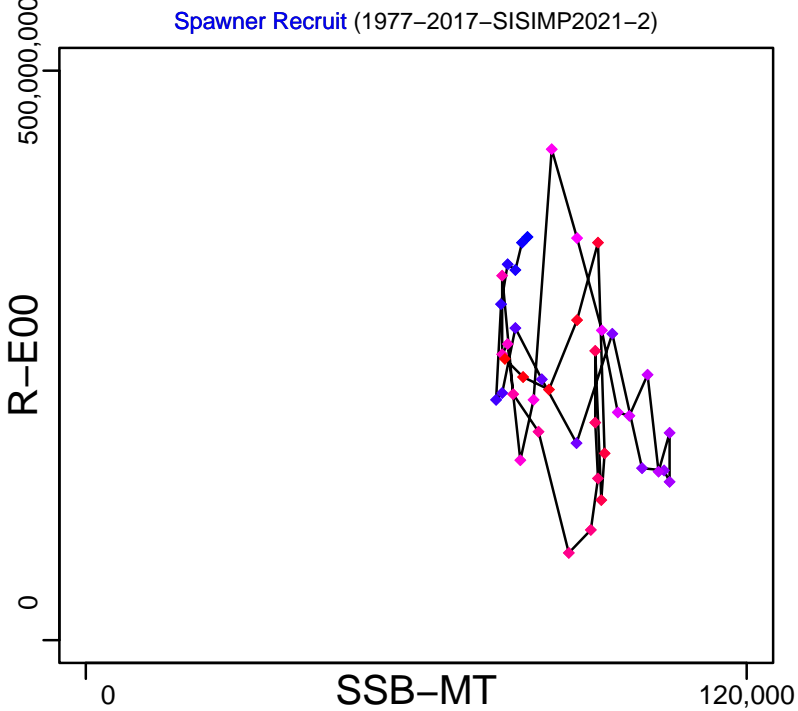
Kobe MSYpref (1977–2017–SISIMP2021–2)



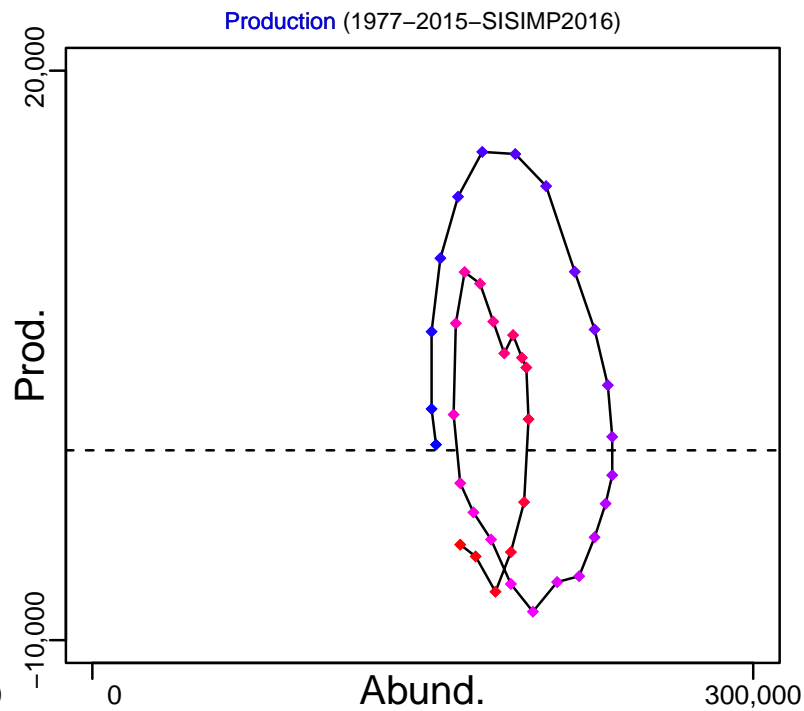
Kobe MGTpref (1977–2017–SISIMP2021–2)



Spawner Recruit (1977–2017–SISIMP2021–2)

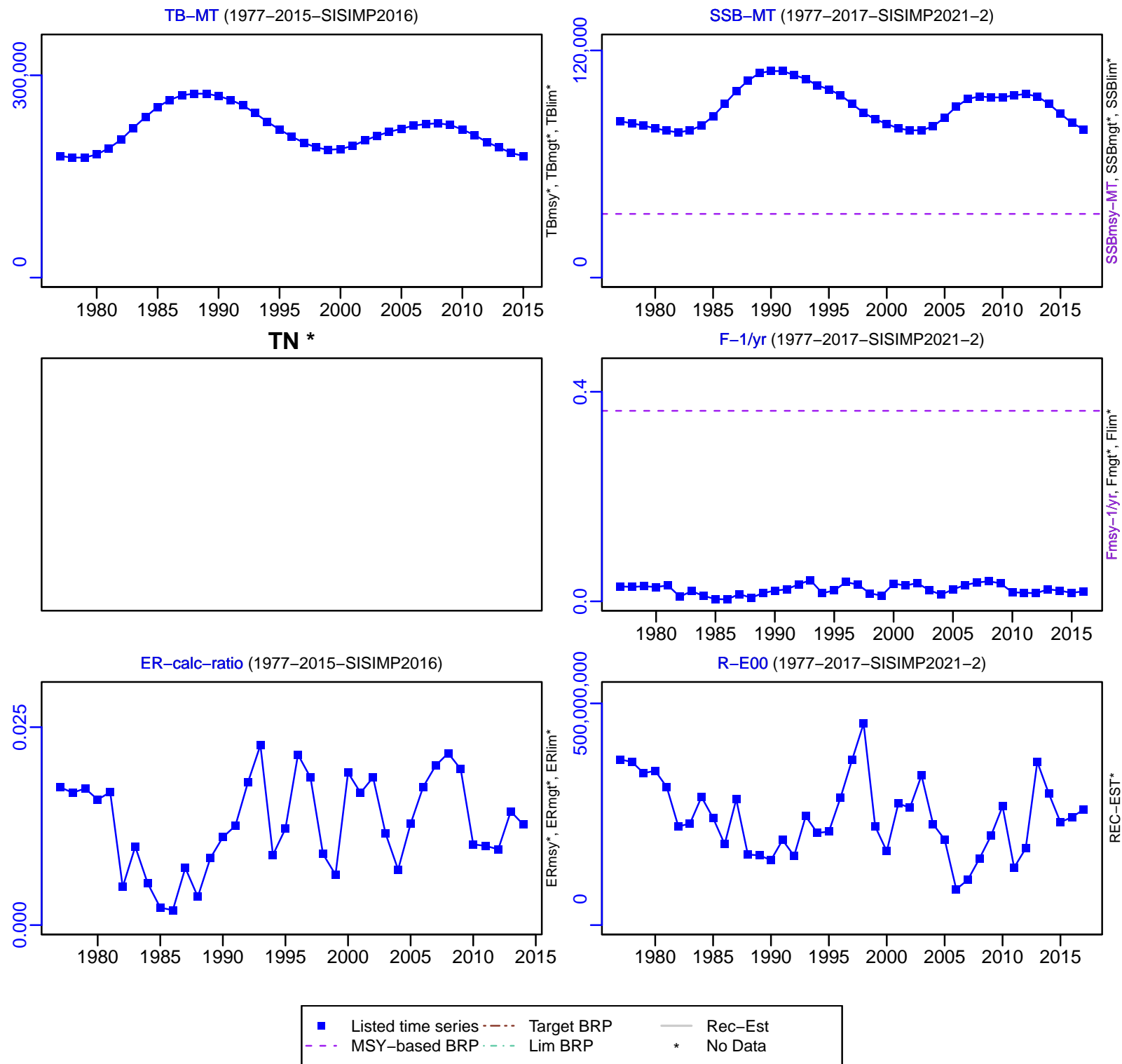


Production (1977–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

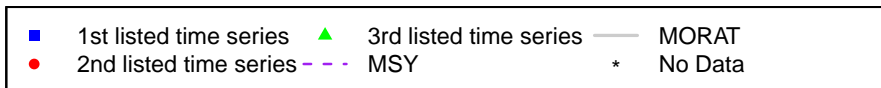
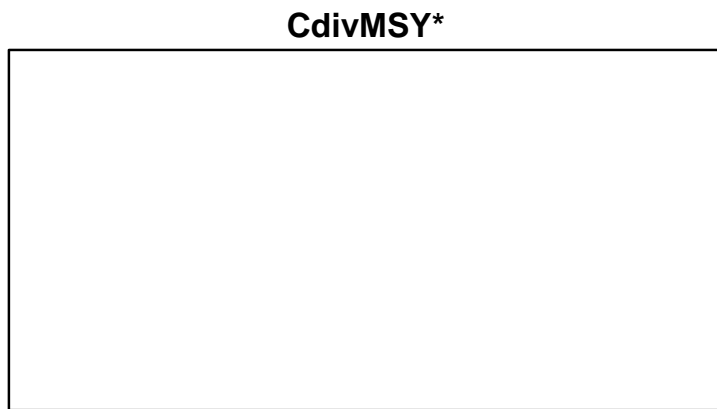
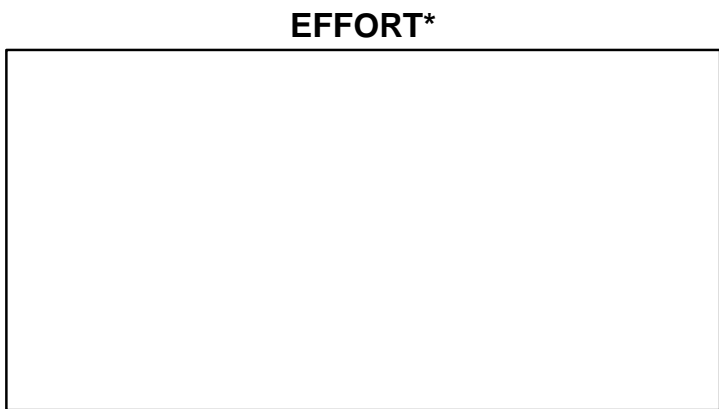
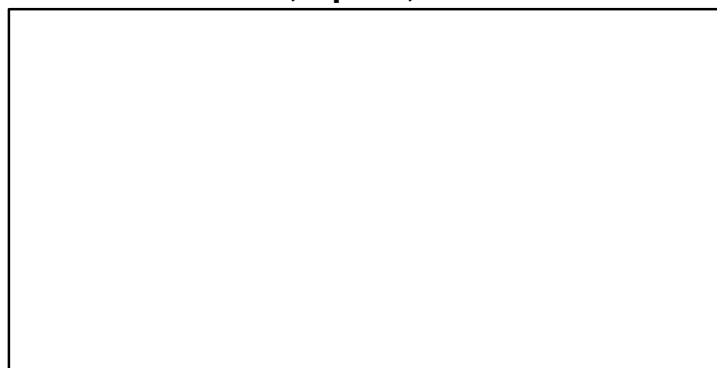
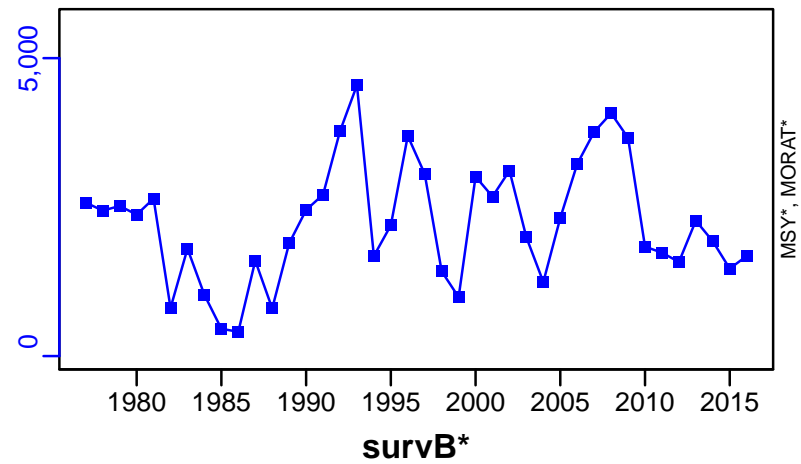
Rock sole Gulf of Alaska [RSOLEGA]



Rock sole Gulf of Alaska [RSOLEGA]

TC-MT, TL*, RecC* (1977-2017-SISIMP2021-2)

TAC*, Cpair*, Cadv*



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

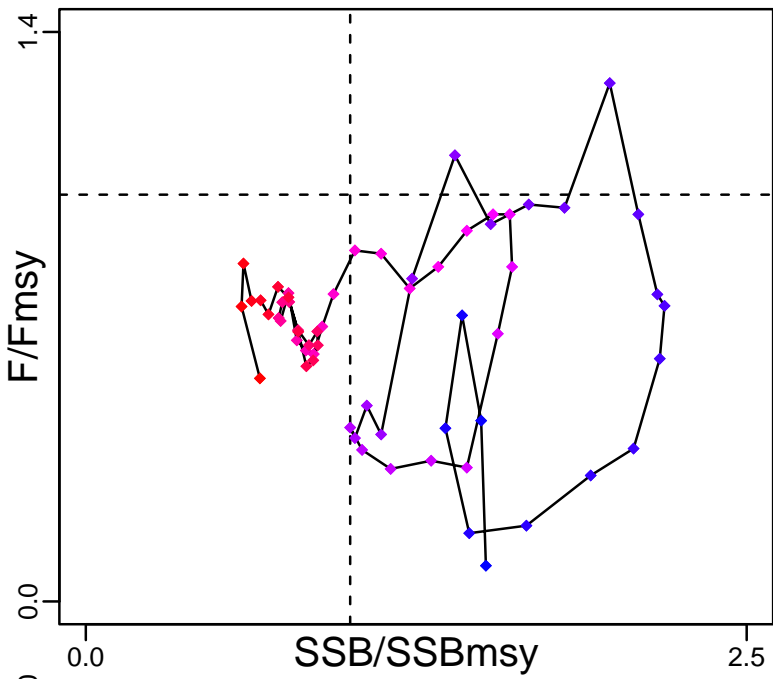
Metadata	
Scientific Name	Anoplopoma fimbria
Current Assess ID	AFSC-SABLEFEBSAIGA-1960-2020-SISIMP2021-2
Area	Eastern Bering Sea / Aleutian Islands / Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2015, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	96,345
SSBmsy	SSBmsy-MT	2020	111,000
Fmsy	Fmsy-1/yr	2020	0.124
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	SSBlim-MT	2019	46,400
Flim	Flim-1/yr	2020	0.124
ERlim	-	-	-

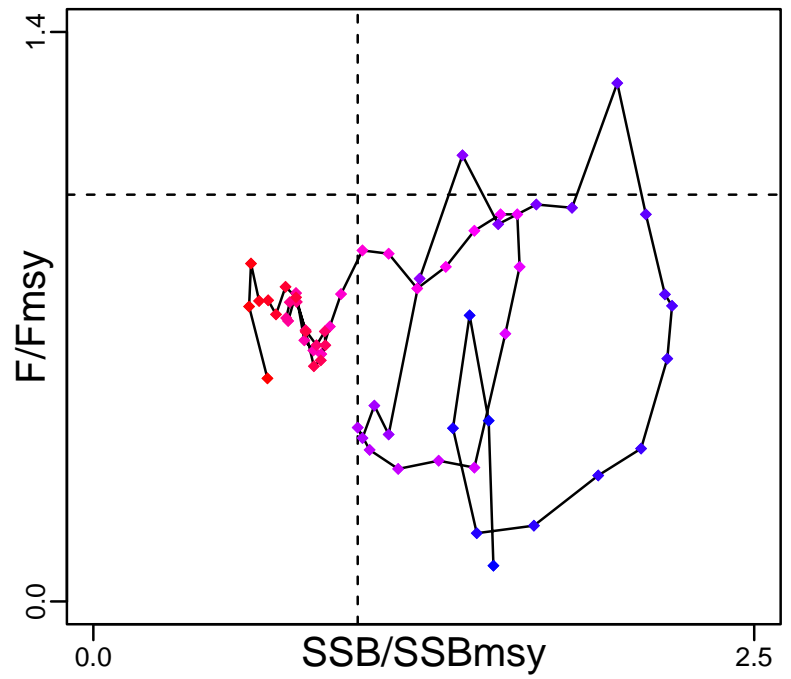
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	202,000	Both	2+
SSB	SSB-MT	2020	94,400	-	-
TN	-	-	-	-	-
R	R-E00	2020	12,500,000	-	2
F	F-1/yr	2020	0.068	-	-
ER	ER-calc-ratio	2015	0.058	-	-
TC	TC-MT	2020	17,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.283		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.85		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.548		
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]

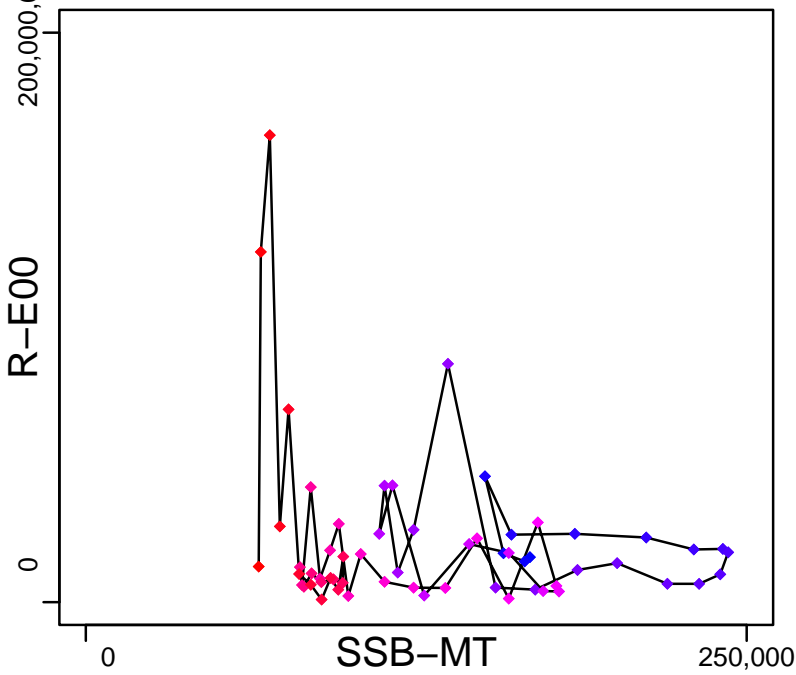
Kobe MSYpref (1960–2020–SISIMP2021–2)



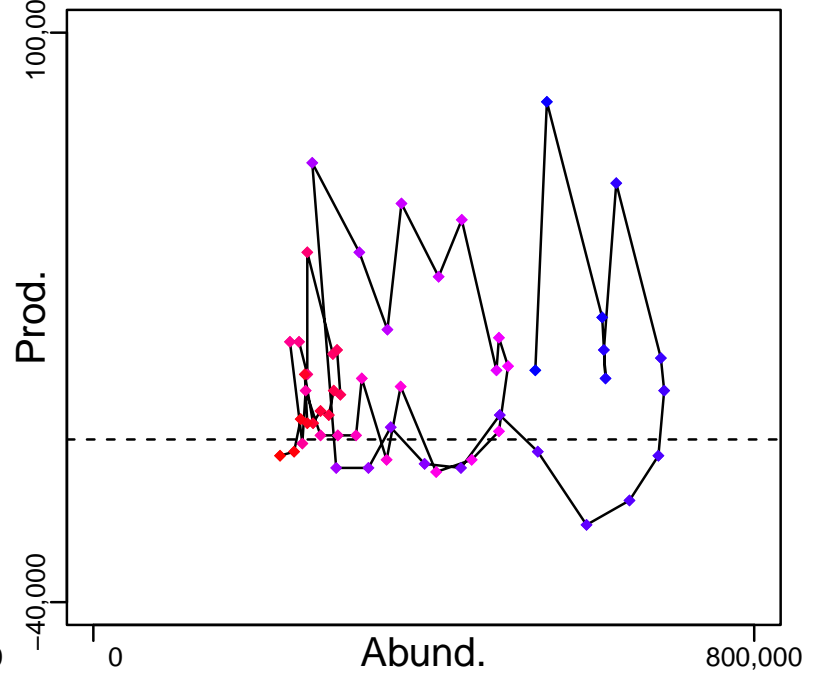
Kobe MGTpref (1960–2020–SISIMP2021–2)



Spawner Recruit (1960–2020–SISIMP2021–2)



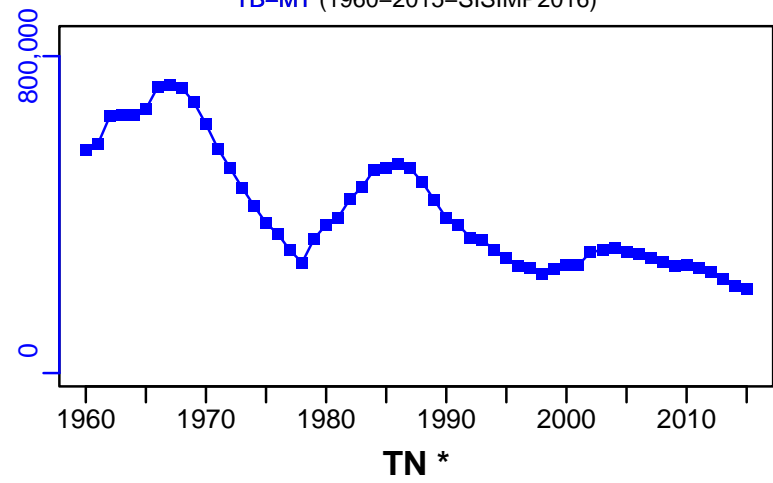
Production (1960–2015–SISIMP2016)



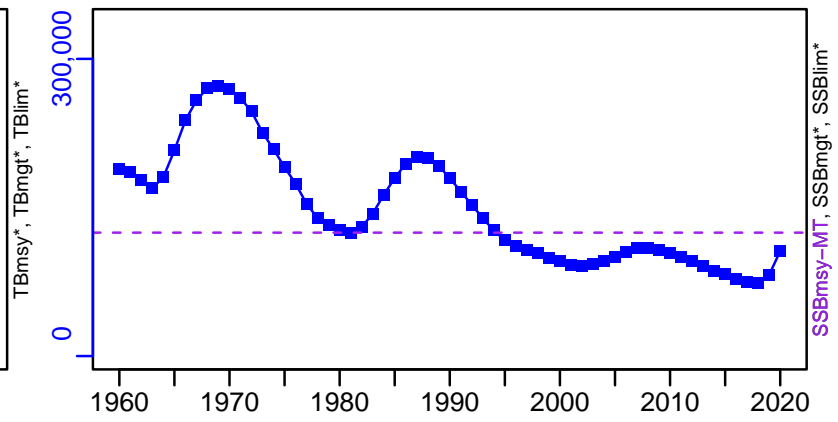
◆ Start Year ◆ End Year * No Data

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

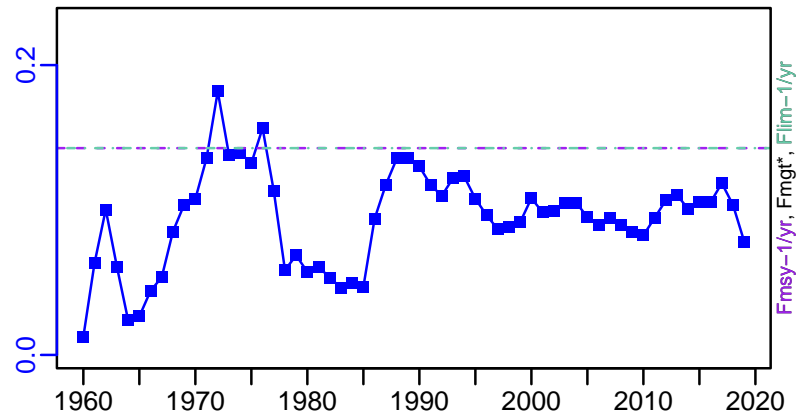
TB-MT (1960–2015–SISIMP2016)



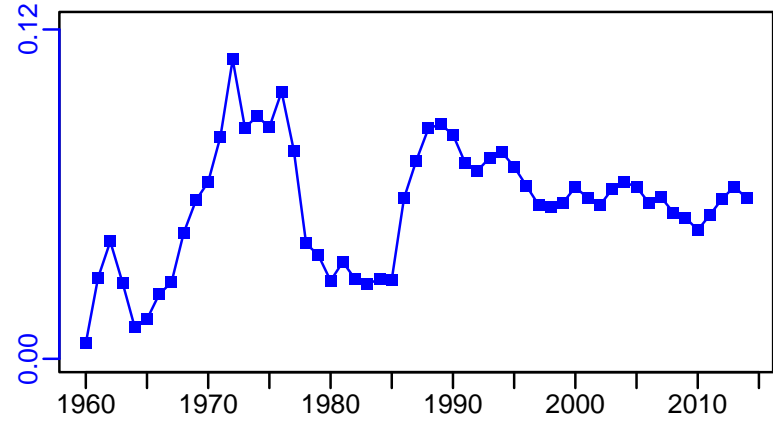
SSB-MT (1960–2020–SISIMP2021–2)



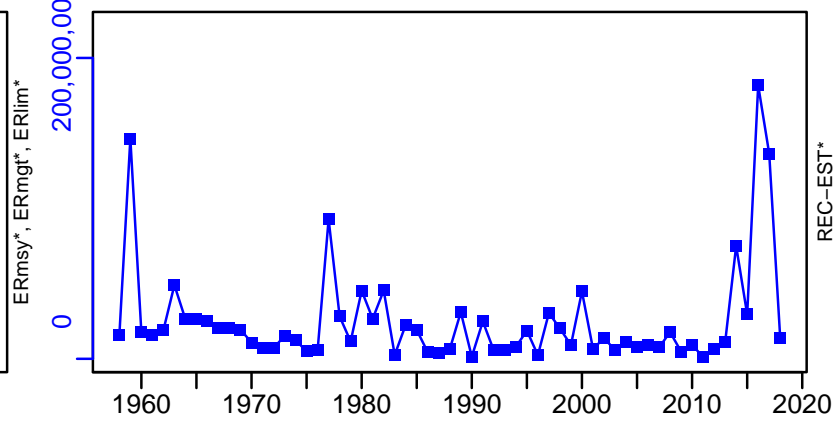
F-1/yr (1960–2020–SISIMP2021–2)



ER-calc-ratio (1960–2015–SISIMP2016)

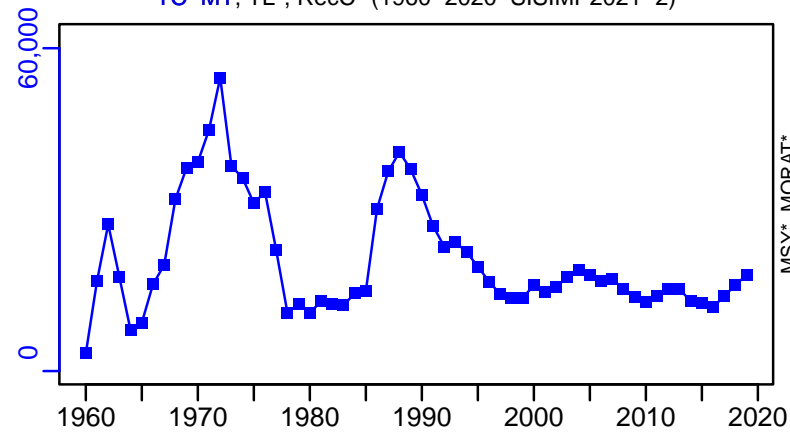


R-E00 (1960–2020–SISIMP2021–2)



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

TC-MT, TL*, RecC* (1960-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



survB*



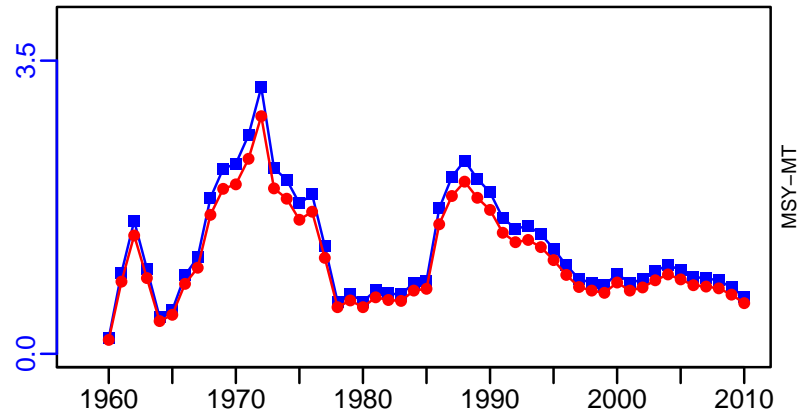
CPUE*



EFFORT*



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



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

Snow crab Bering Sea [SNOWCRABBS]

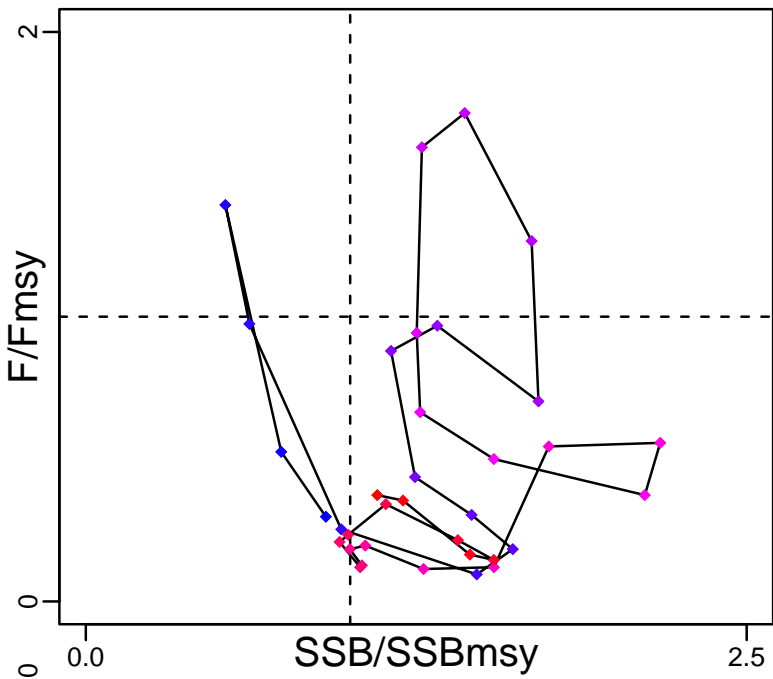
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	AFSC-SNOWCRABBS-1982-2020-SISIMP2021-2
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2016, 2015, 2017, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	153,000
SSBmsy	SSBmsy-MT	2016	139,400
Fmsy	Fmsy-pr-1/yr	2013	1.58
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.18
TBlim	TBlim-MT	2020	76,700
SSBlim	SSBlim-MT	2016	69,700
Flim	Flim-1/yr	2017	1.04
ERlim	-	-	-

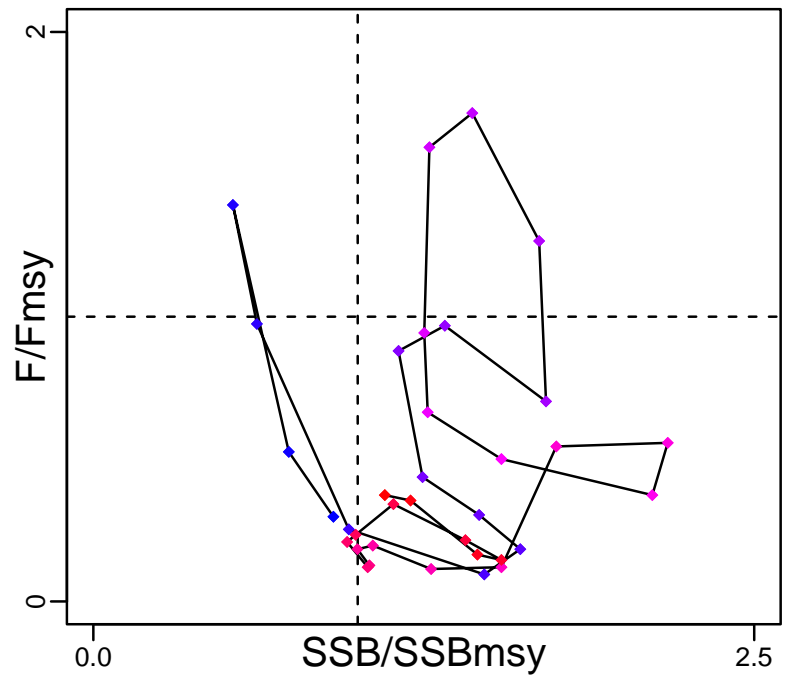
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	26,700	-	-
SSB	SSB-MT	2016	96,970	-	-
TN	-	-	-	-	-
R	R-E00	2020	1.28×10^8	-	0
F	F-1/yr	2020	3.24	-	-
ER	ER-calc-ratio	2020	0.985	-	-
TC	TC-MT	2020	26,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2020	0.175		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.696		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0.373		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab Bering Sea [SNOWCRABBS]

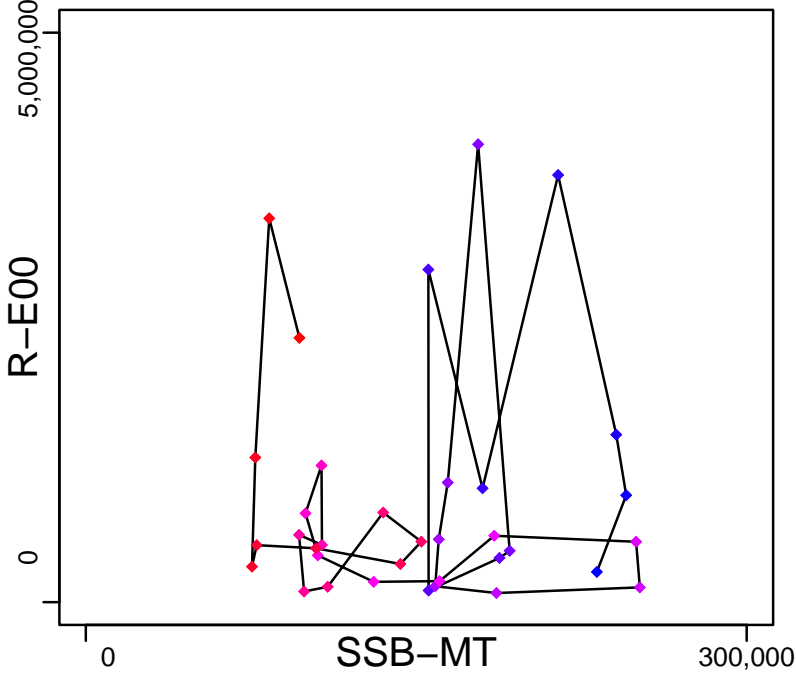
Kobe MSYpref (1978–2013–HIVELY)



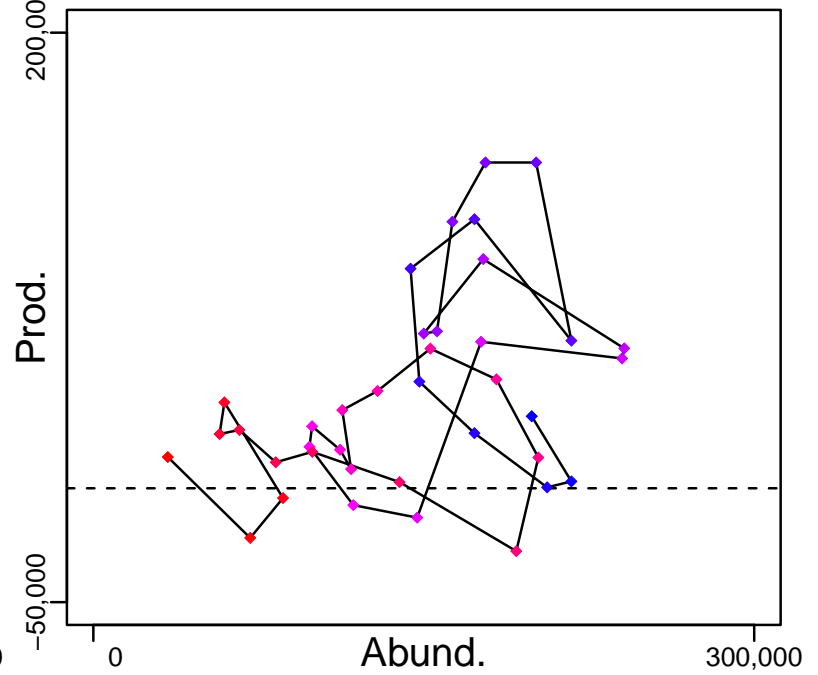
Kobe MGTpref (1978–2013–HIVELY)



Spawner Recruit (1978–2016–SISIMP2021)



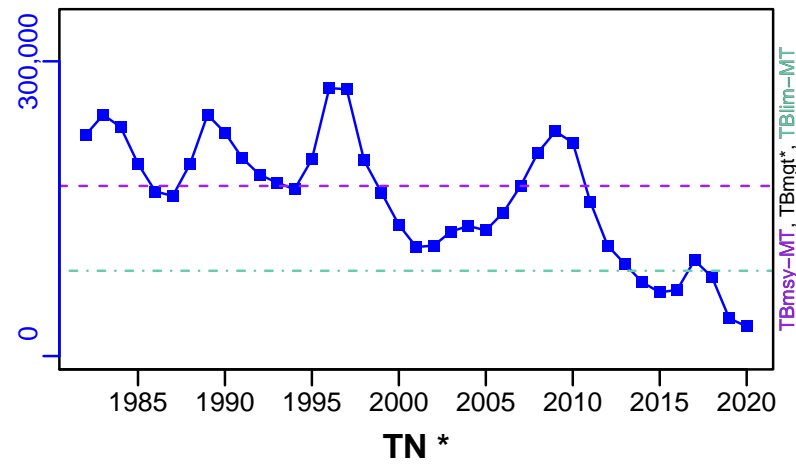
Production (1982–2020–SISIMP2021–2)



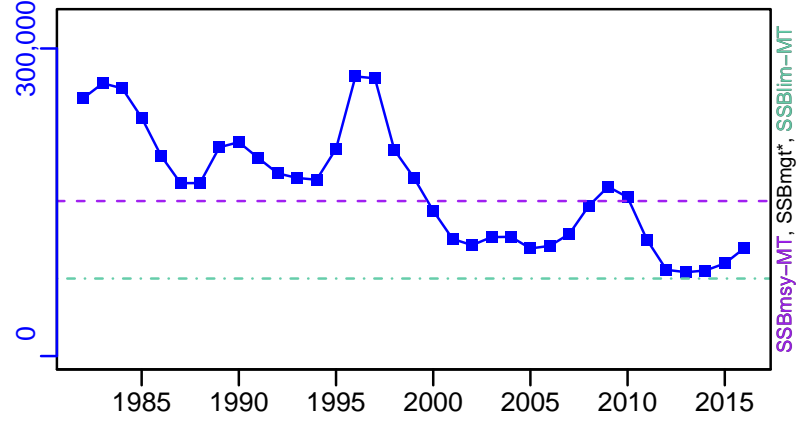
◆ Start Year ◆ End Year * No Data

Snow crab Bering Sea [SNOWCRABBS]

TB-MT (1982-2020-SISIMP2021-2)



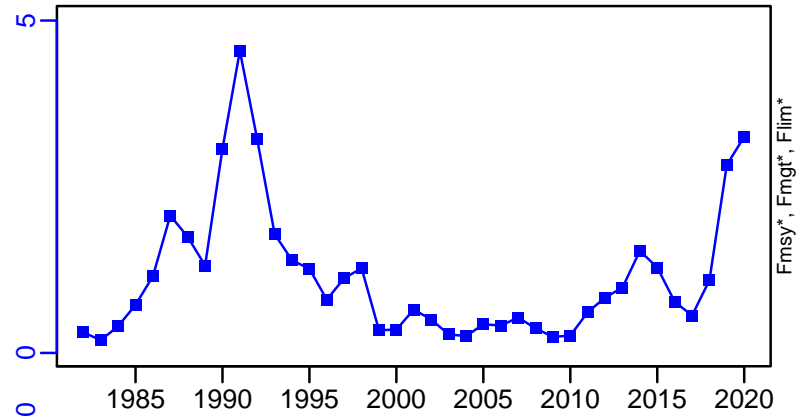
SSB-MT (1978-2016-SISIMP2021)



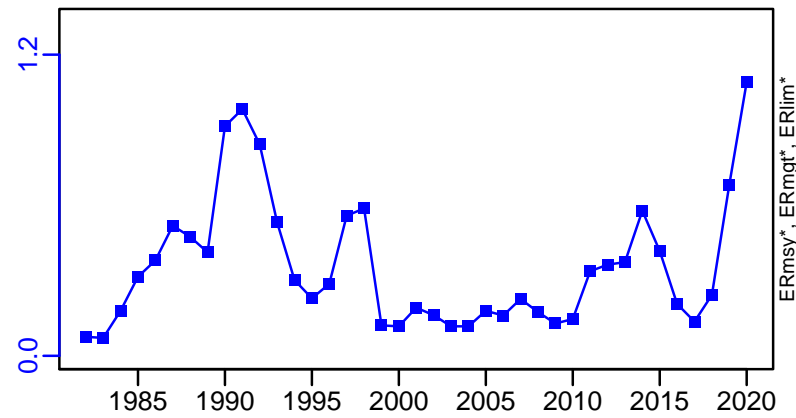
TN *



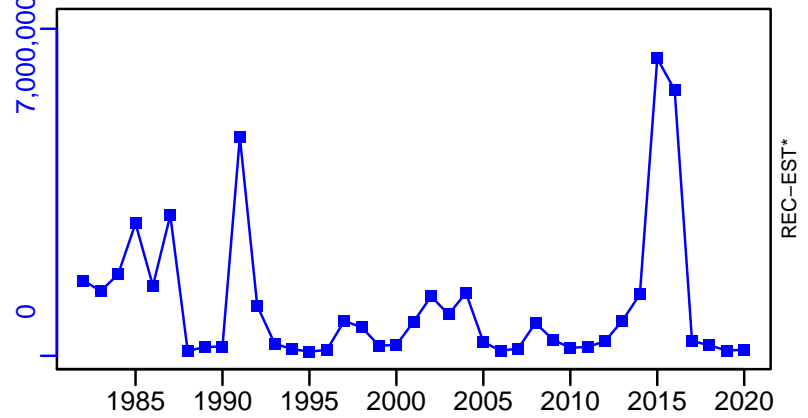
F-1/yr (1982-2020-SISIMP2021-2)



ER-calc-ratio (1982-2020-SISIMP2021-2)



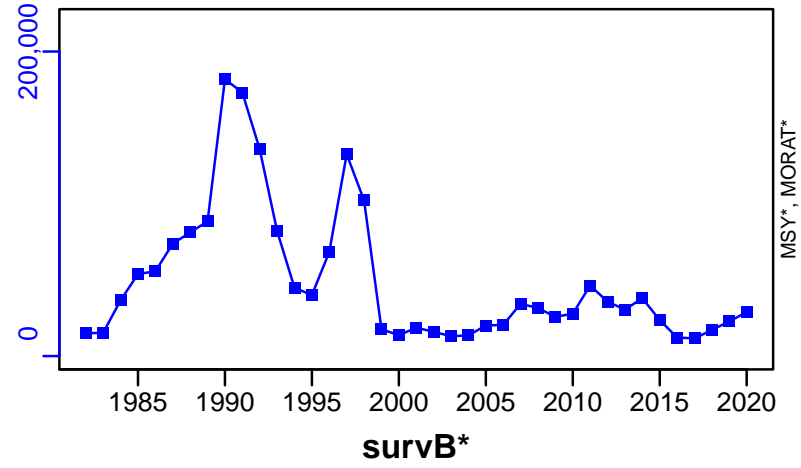
R-E00 (1982-2020-SISIMP2021-2)



Snow crab Bering Sea [SNOWCRABBS]

TC-MT, TL*, RecC* (1982-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

■ 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-1977-2020-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2018, 2020, 2016, 2014

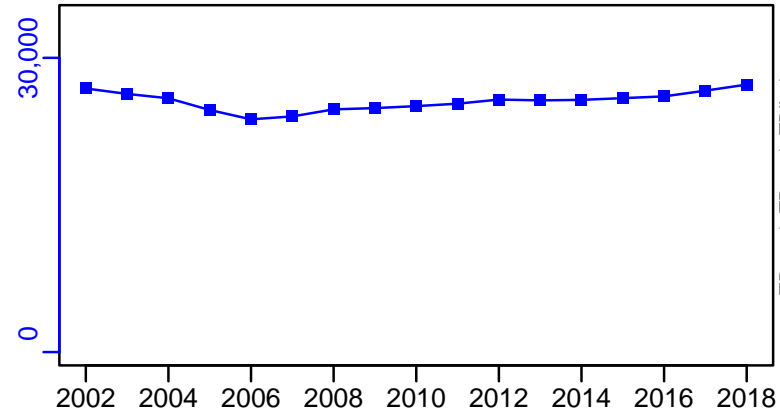
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.031
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.03
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.03
ERlim	ERlim-ratio	2016	0.031

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	2020	380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.223		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shorttraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

TB-MT (1977–2018–SISIMP2021)

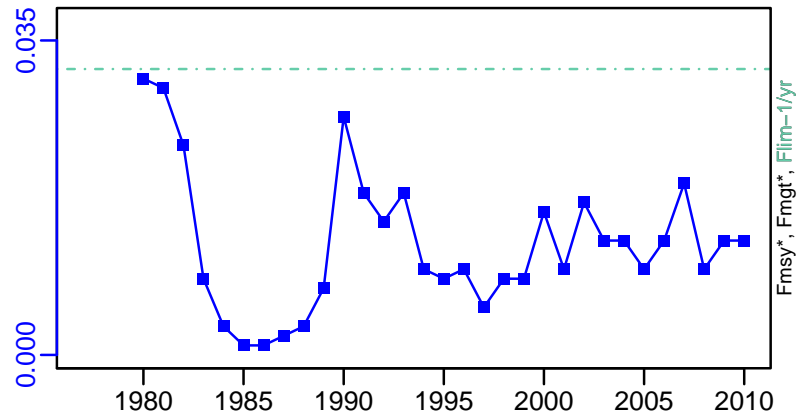
SSB*



TN *

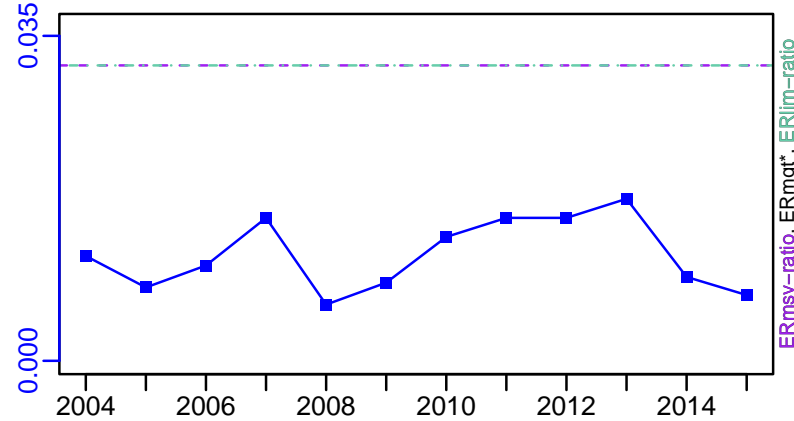


F-1/yr (1977–2010–STACHURA)



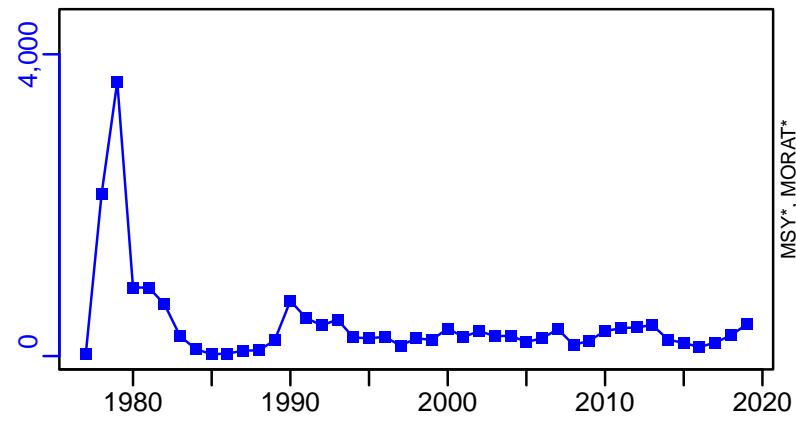
ER-ratio (2002–2016–SISIMP2021)

Recruits*



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

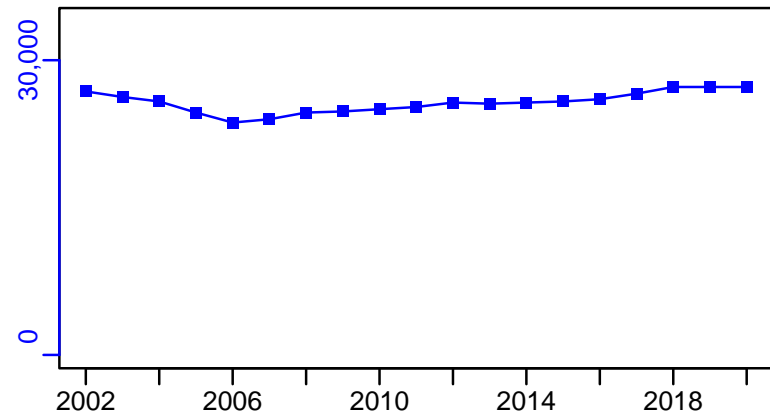
TC-MT, TL*, RecC* (1977-2020-SISIMP2021-2)



TAC*, Cpair*, Cadv*



survB-MT (1977-2020-SISIMP2021-2)



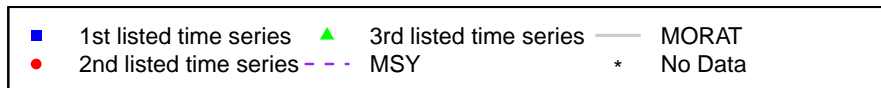
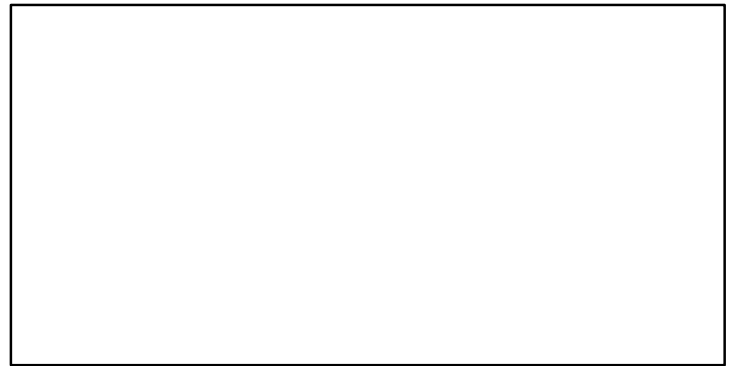
CPUE*



EFFORT*



CdivMSY*



Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.031
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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	2018	763		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.323		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



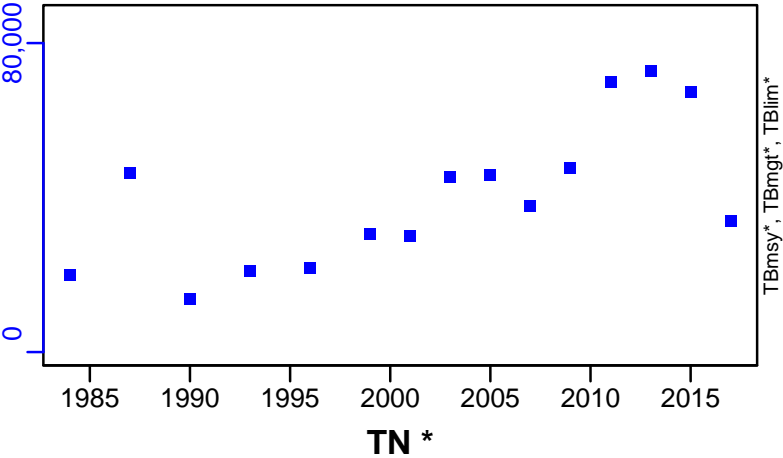
Production*



◆ Start Year ◆ End Year * No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

TB-MT (1984-2017-SISIMP2021)



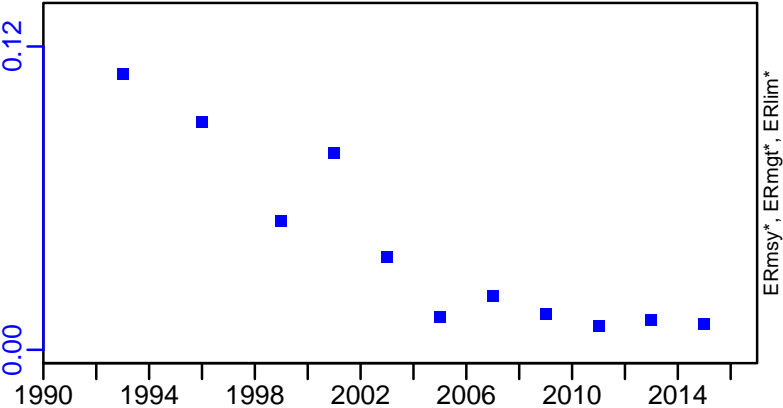
SSB*



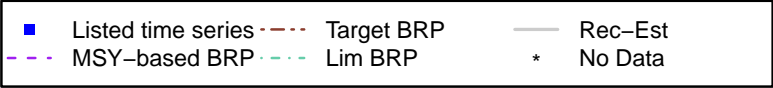
F*



ER-calc-ratio (1984-2017-SISIMP2021)

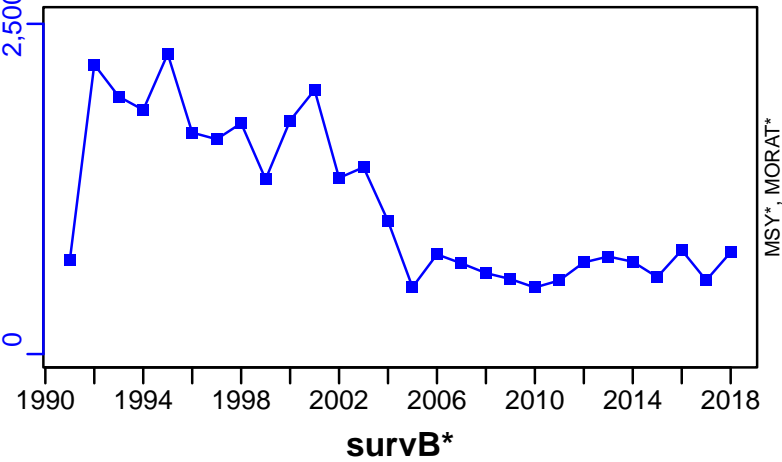


Recruits*



Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

TC-MT, TL*, RecC* (1991-2018-SISIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

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

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

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

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

Kobe MSY*



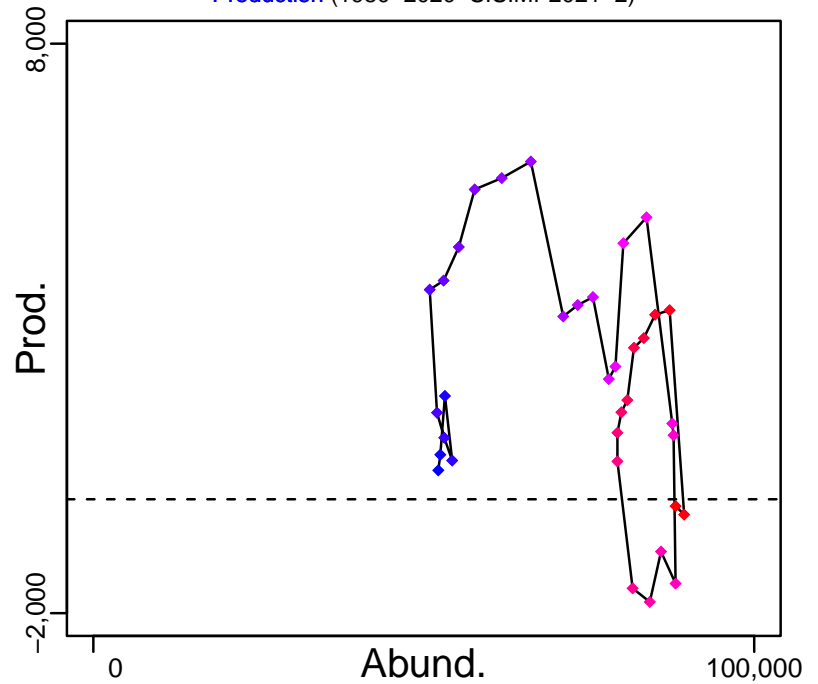
Kobe MGT*



Spawner Recruit*



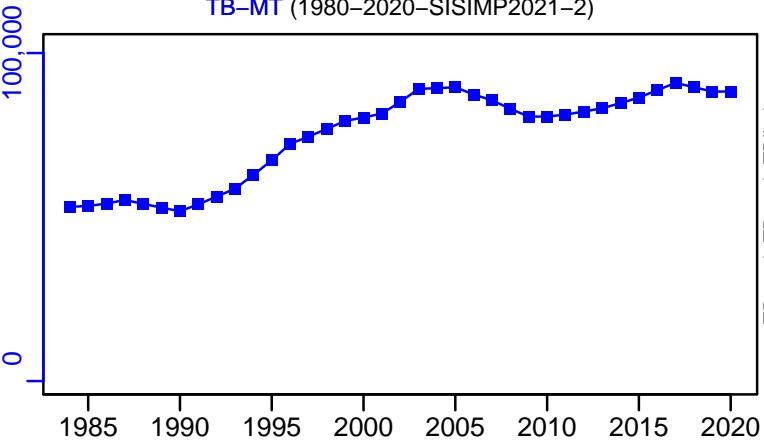
Production (1980–2020–SISIMP2021–2)



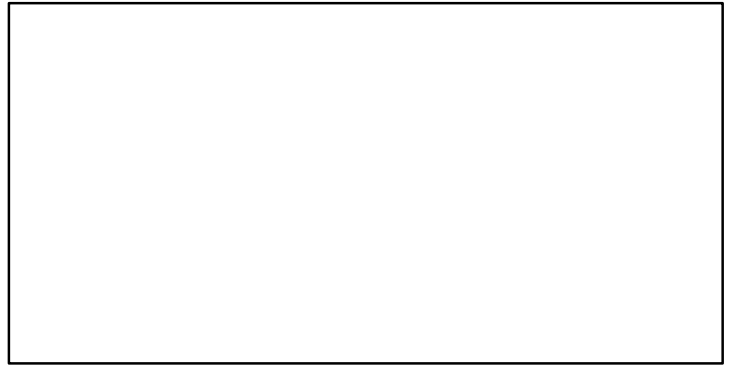
◆ Start Year ◆ End Year * No Data

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

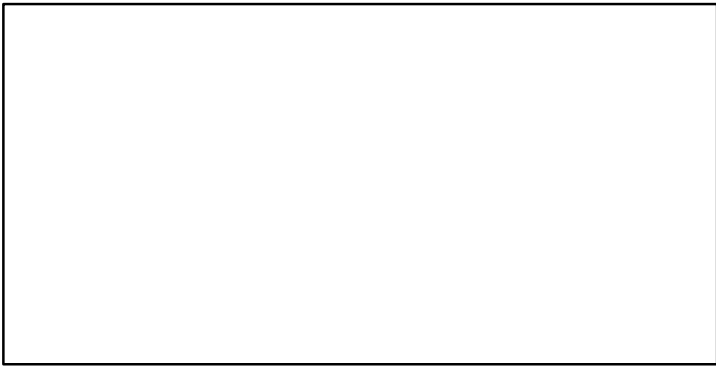
TB-MT (1980-2020-SISIMP2021-2)



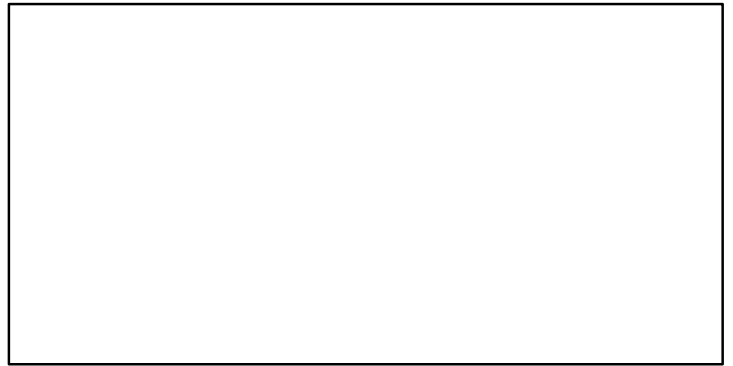
SSB*



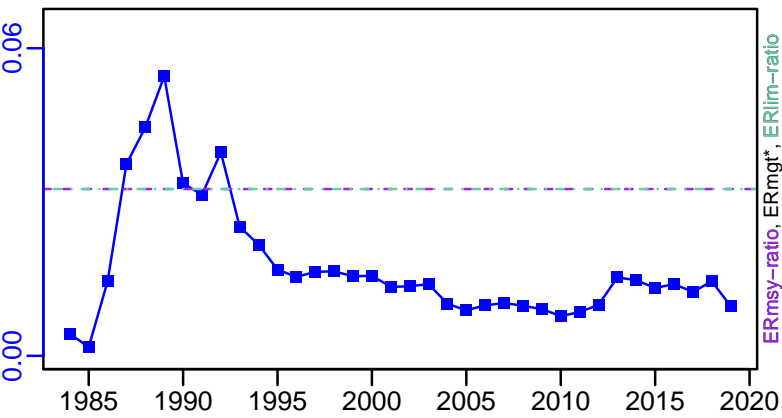
TN *



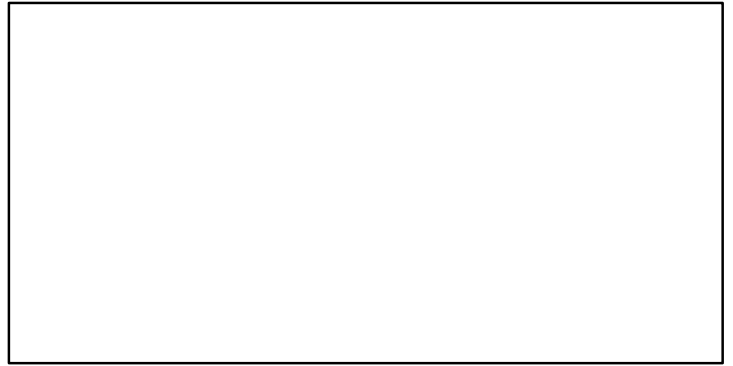
F*



ER-ratio (1980-2020-SISIMP2021-2)



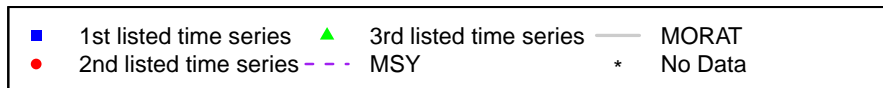
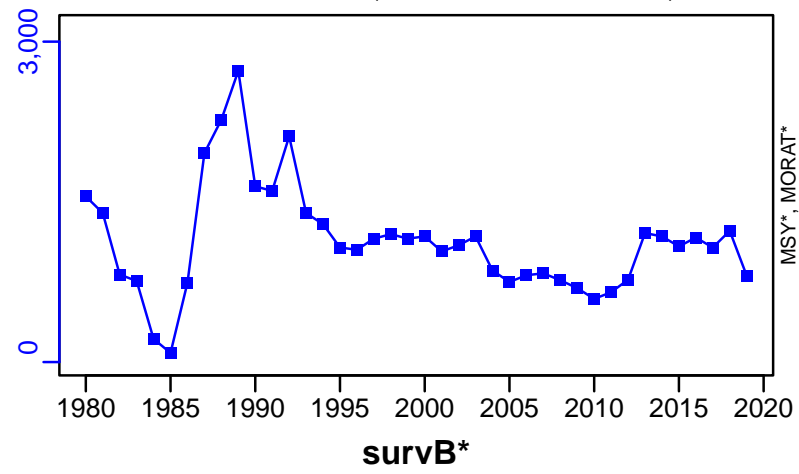
Recruits*



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

TC-MT, TL*, RecC* (1980-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

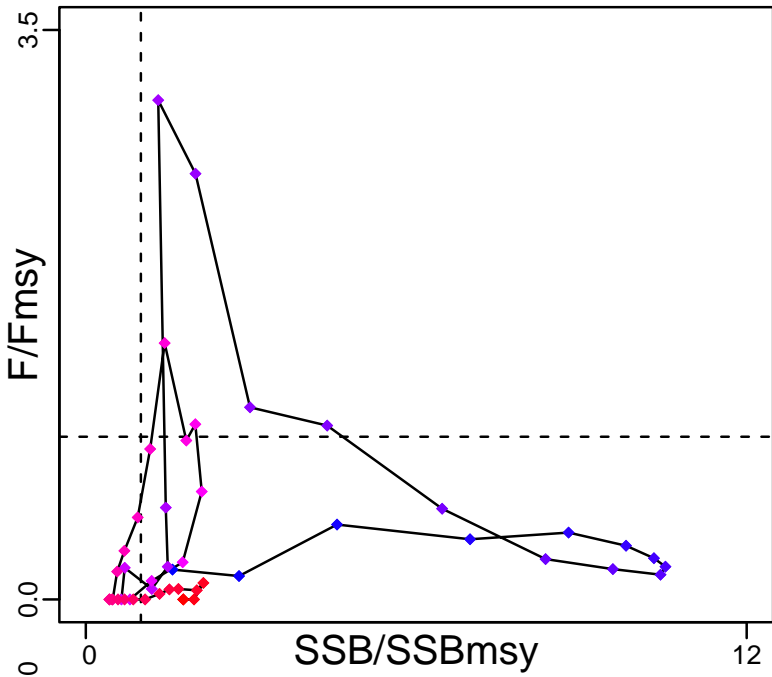
Metadata	
Scientific Name	Chionoecetes bairdi
Current Assess ID	AFSC-TANNERCRABBSAI-1948-2022-SISIMP2024
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2017, 2019, 2022, 2013, 2016, 2017, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2022	34,730
SSBmsy	SSBmsy-MT	2017	29,170
Fmsy	Fmsy-pr-1/yr	2013	0.73
ERmsy	-	-	-
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	TBlim-MT	2022	17,370
SSBlim	SSBlim-MT	2017	14,580
Flim	-	-	-
ERlim	-	-	-

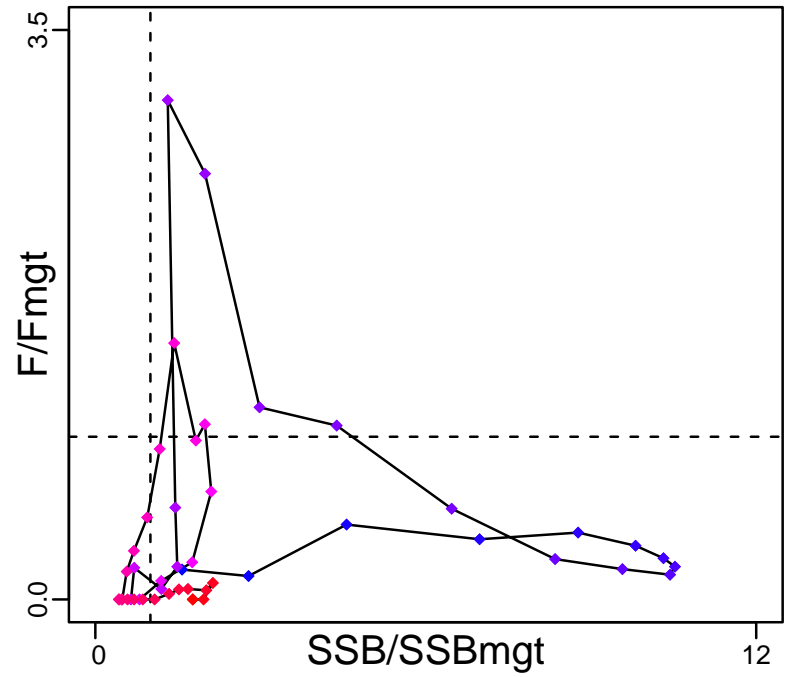
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	47,580	-	-
SSB	SSB-MT	2016	53,700	-	-
TN	-	-	-	-	-
R	R-E00	2022	1362	-	-
F	F-1/yr	2015	0.144	-	-
ER	ER-calc-ratio	2022	0.012	-	-
TC	TC-MT	2022	741		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2022	1.37		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.004		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0		
ER/ERmsy	-	-	-		
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]

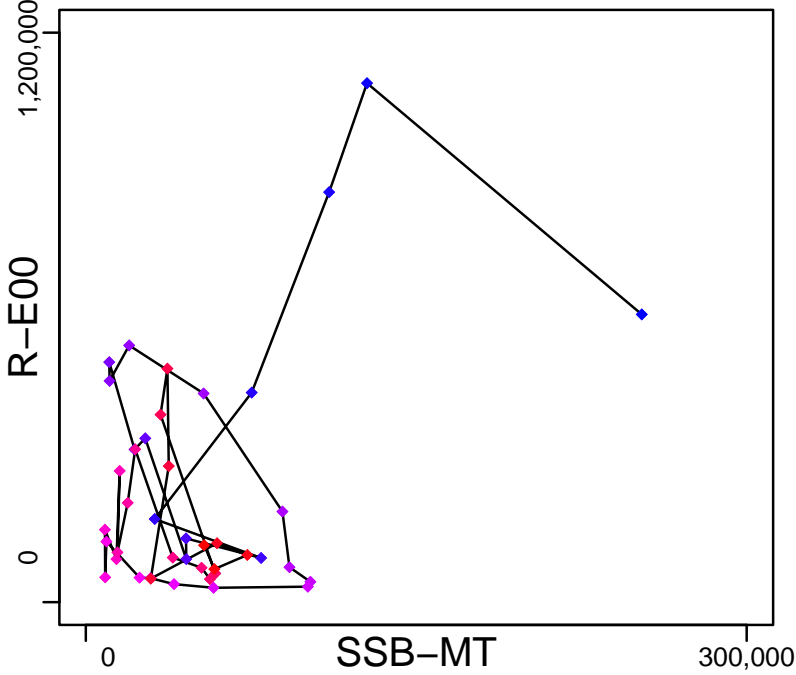
Kobe MSYpref (1949–2013–HIVELY)



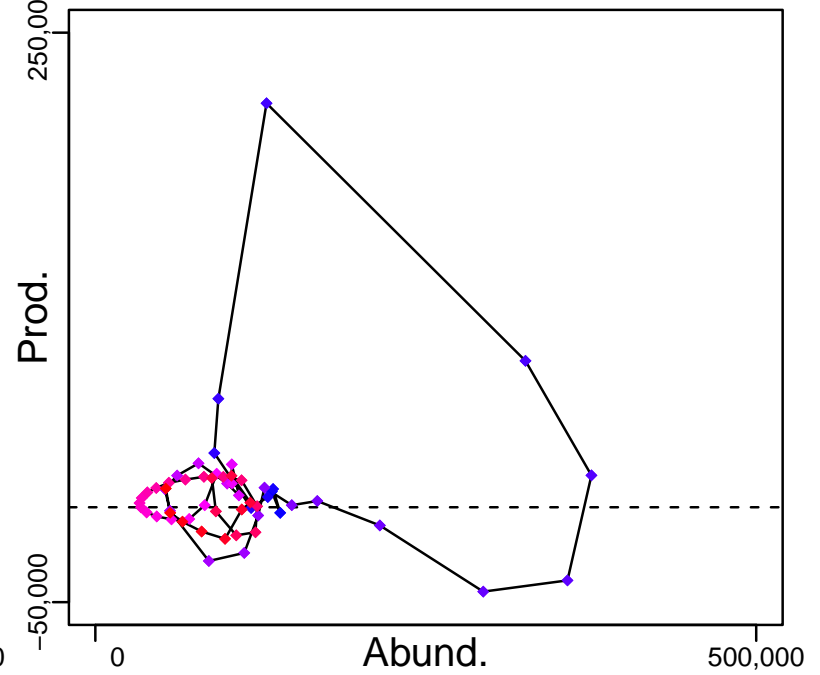
Kobe MGTpref (1949–2013–HIVELY)



Spawner Recruit (1949–2016–SISIMP2021)



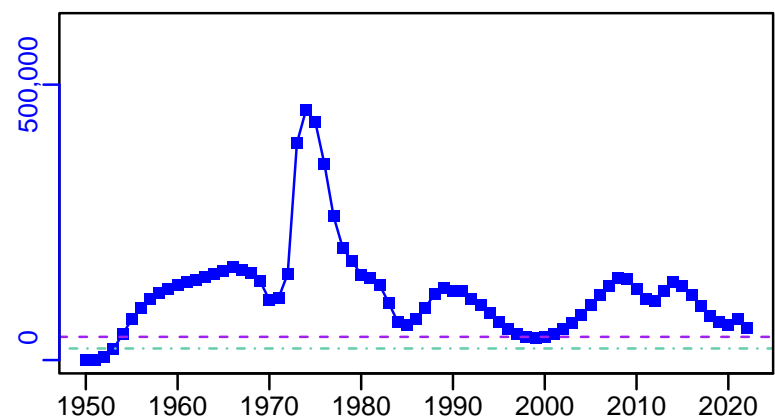
Production (1948–2022–SISIMP2024)



◆ Start Year ◆ End Year * No Data

Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

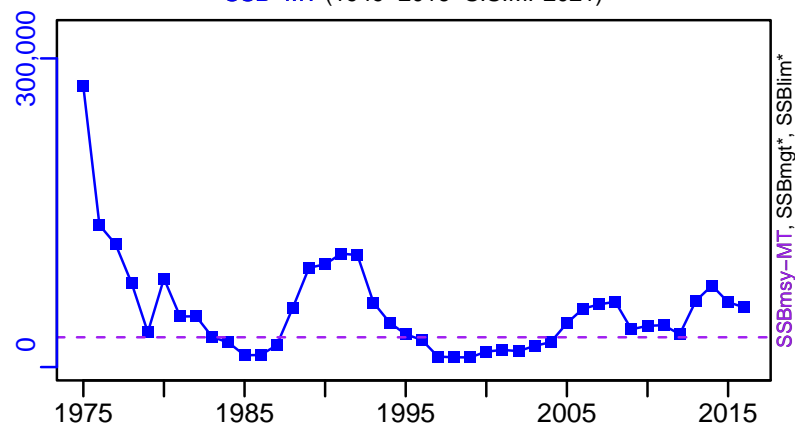
TB-MT (1948–2022–SISIMP2024)



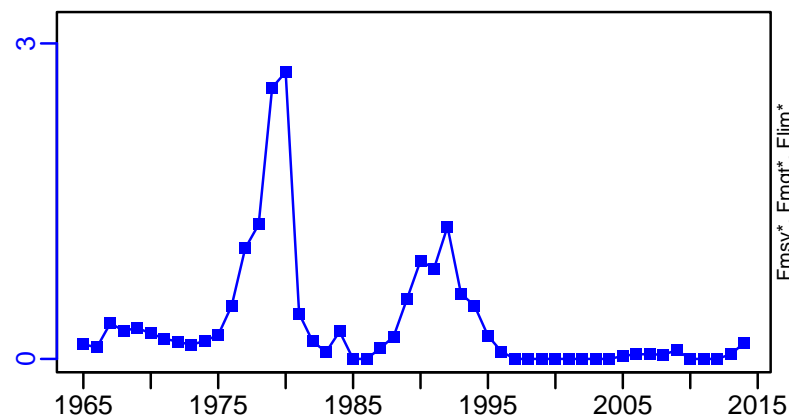
TN *



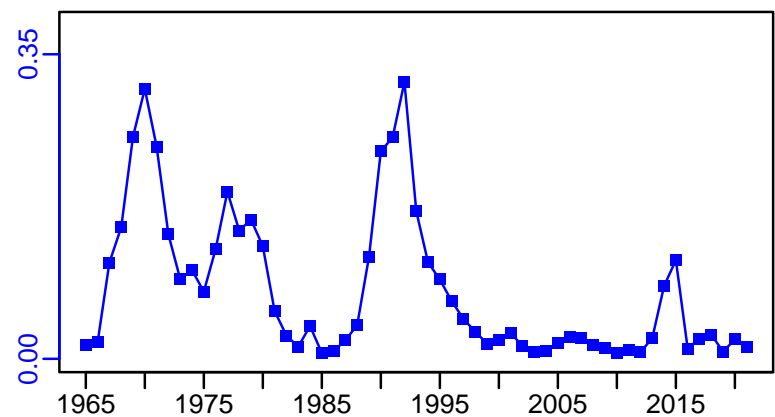
SSB-MT (1949–2016–SISIMP2021)



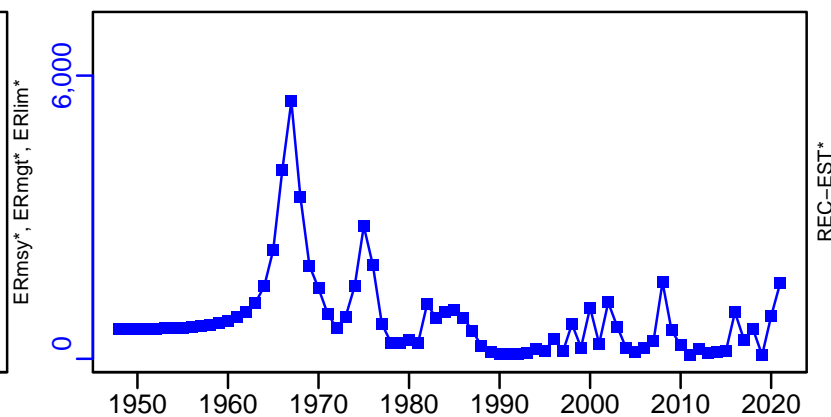
F-1/yr (1965–2015–SISIMP2016)



ER-calc-ratio (1948–2022–SISIMP2024)

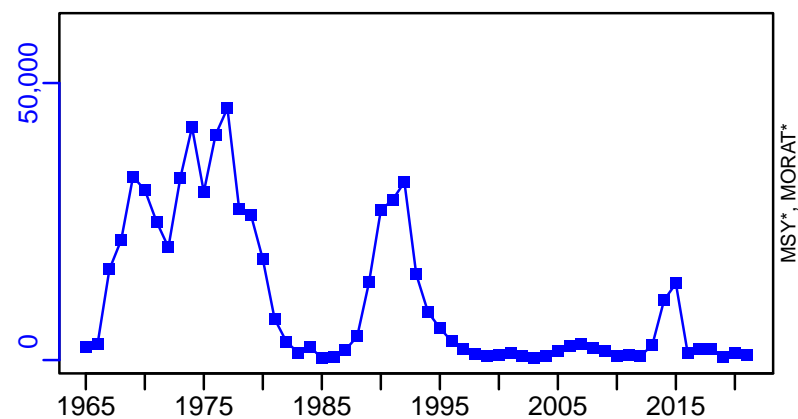


R-E00 (1948–2022–SISIMP2024)



Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

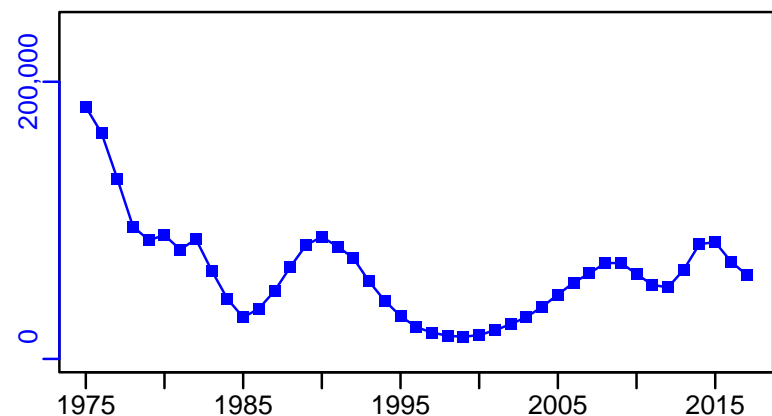
TC-MT, TL*, RecC* (1948–2022–SISIMP2024)



TAC*, Cpair*, Cadv*



survB-MT (1949–2017–SISIMP2021)



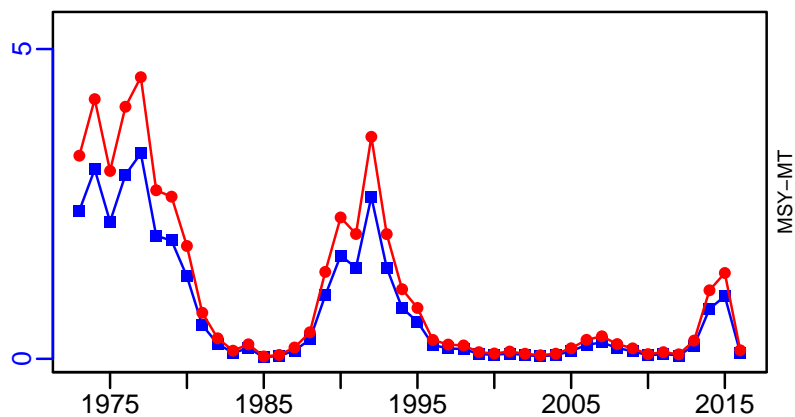
CPUE*



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]

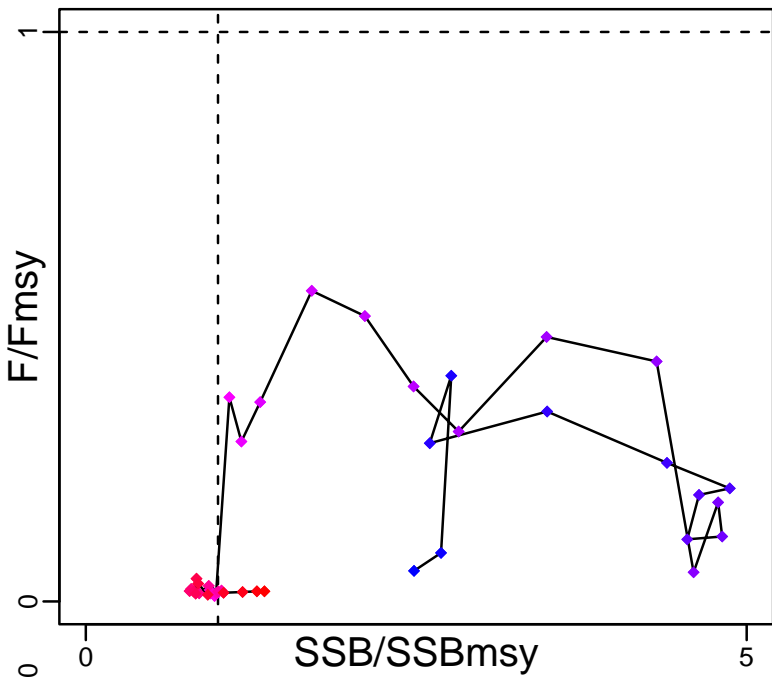
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLAI-1978-2021-SISIMP2022
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015, 2016, 2018, 2018, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	64,916
Fmsy	Fmsy-1/yr	2021	0.39
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.432
ERlim	-	-	-

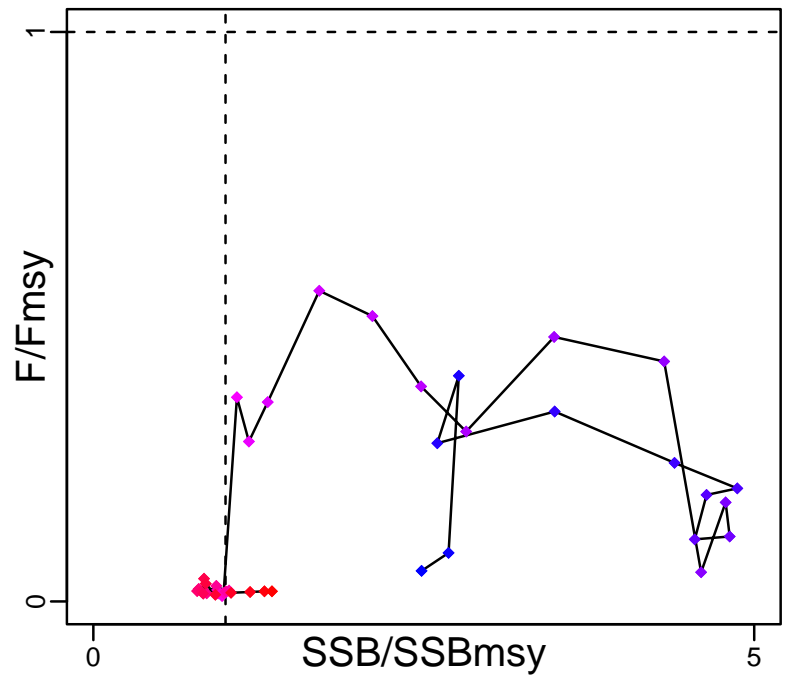
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	216,000	-	1+
SSB	SSB-MT	2021	89,906	-	-
TN	-	-	-	-	-
R	R-E00	2021	1×10^8	-	0
F	F-1/yr	2021	0.007	-	-
ER	ER-calc-ratio	2015	0.012	-	-
TC	TC-MT	2021	3205		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.385		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.018		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.035		
ER/ERmgt	-	-	-		

Walleye pollock Aleutian Islands [WPOLLAI]

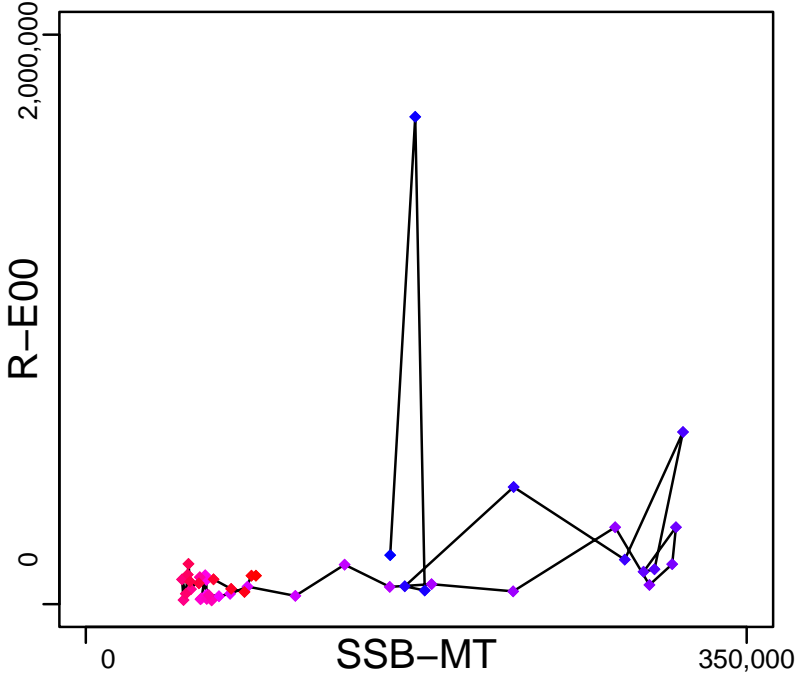
Kobe MSY_{pref} (1978–2021–SISIMP2022)



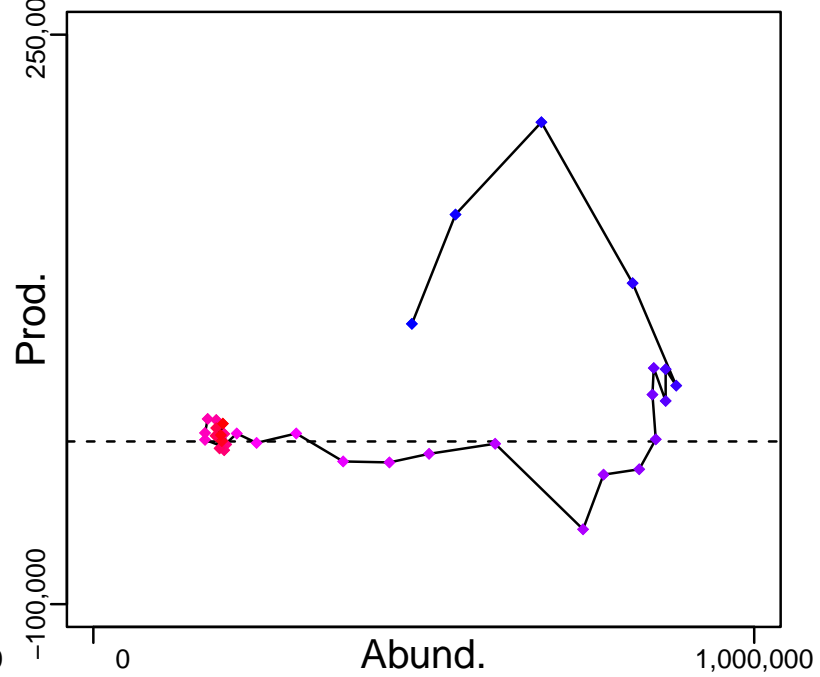
Kobe MGT_{pref} (1978–2021–SISIMP2022)



Spawner Recruit (1978–2021–SISIMP2022)

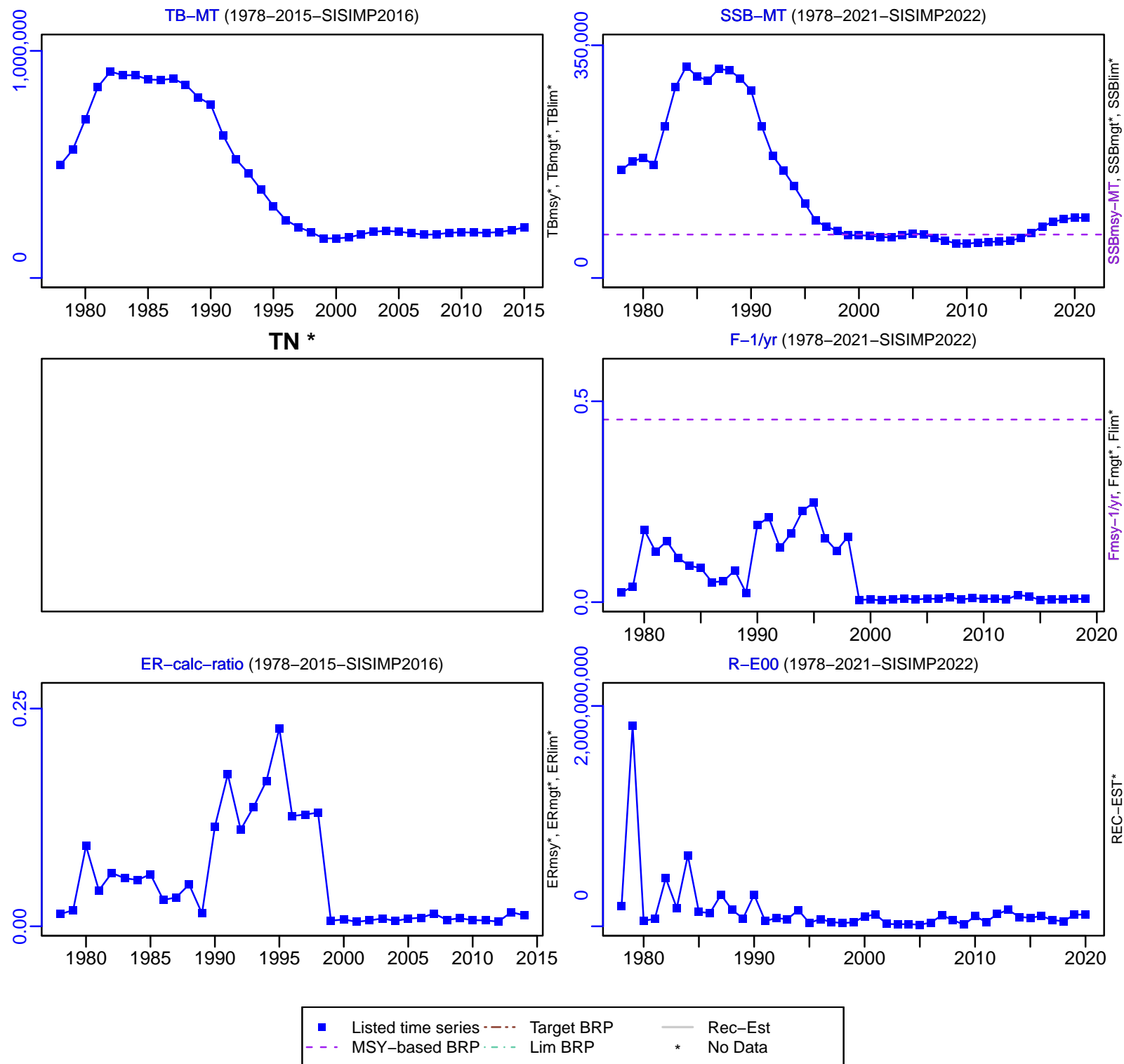


Production (1978–2015–SISIMP2016)



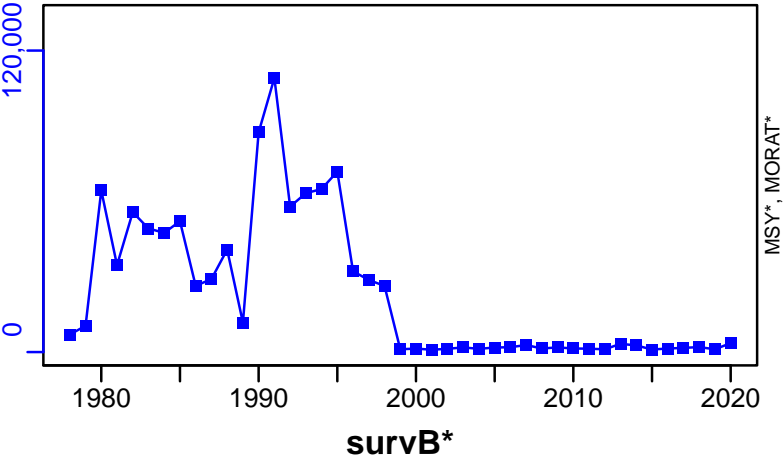
◆ Start Year ◆ End Year * No Data

Walleye pollock Aleutian Islands [WPOLLAI]



Walleye pollock Aleutian Islands [WPOLLAI]

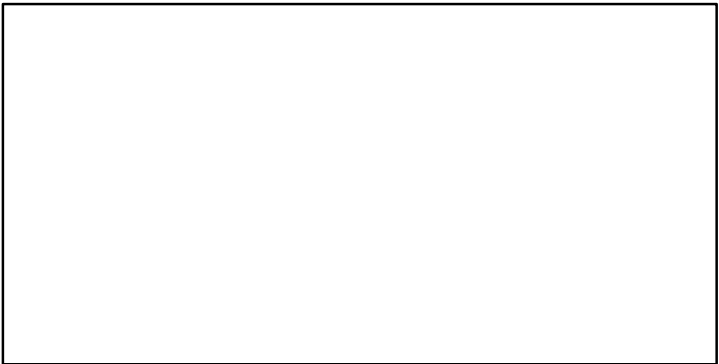
TC-MT, TL*, RecC* (1978-2021-SISIMP2022)



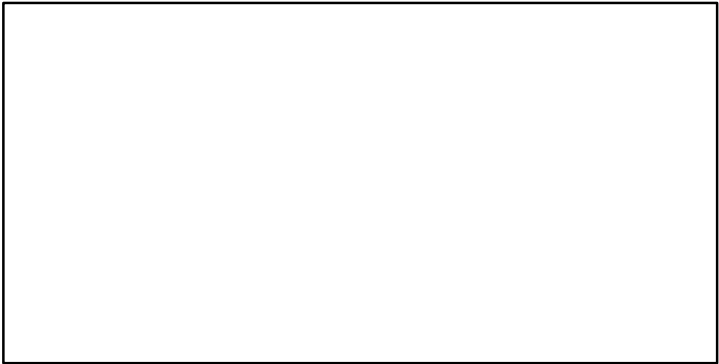
TAC*, Cpair*, Cadv*



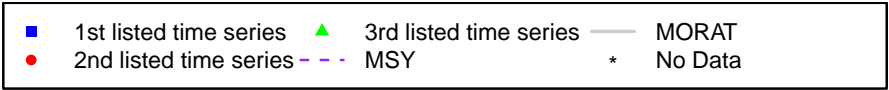
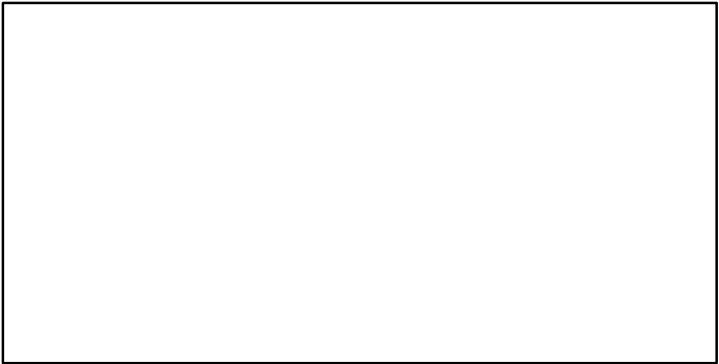
CPUE*



EFFORT*



CdivMSY*

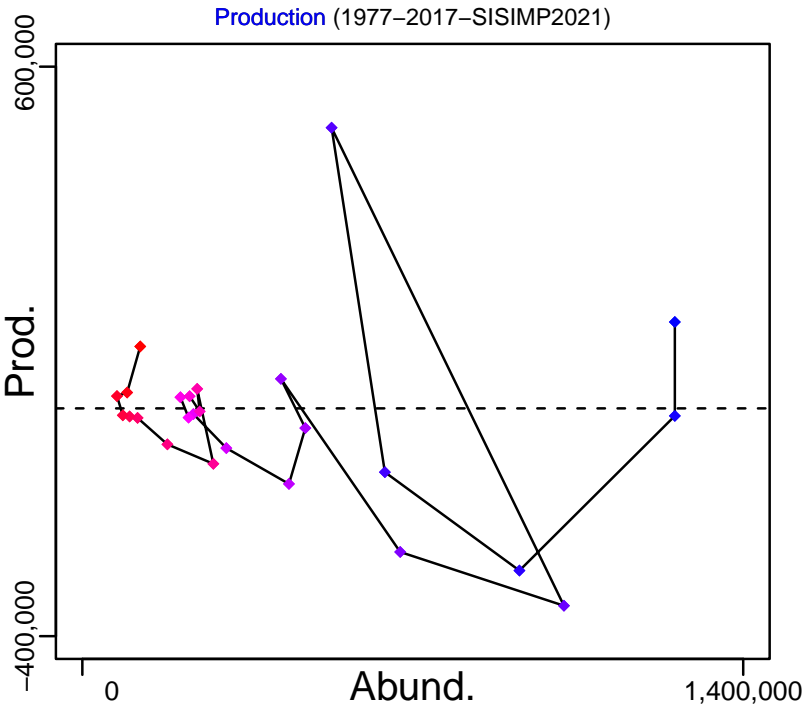
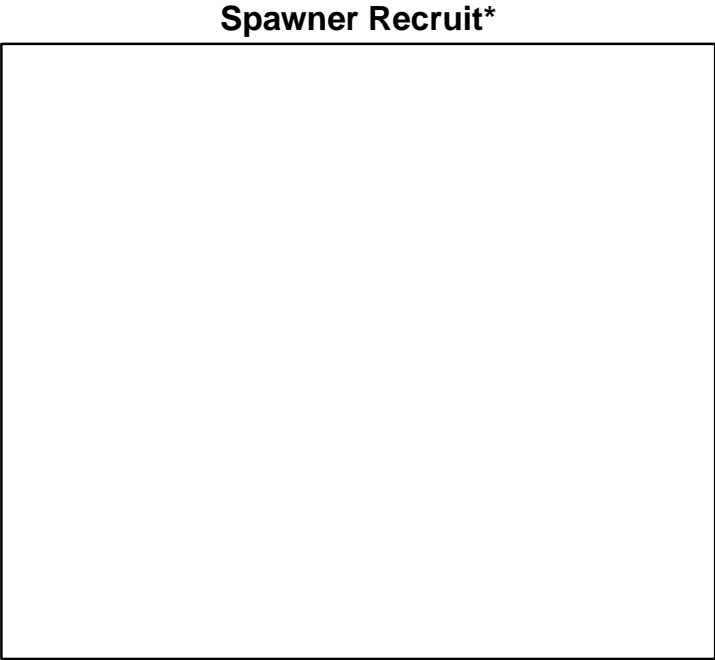
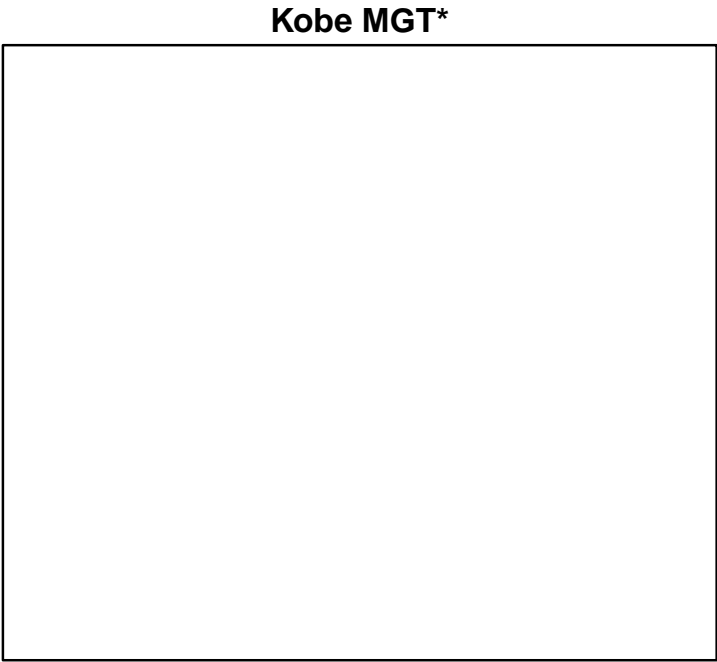
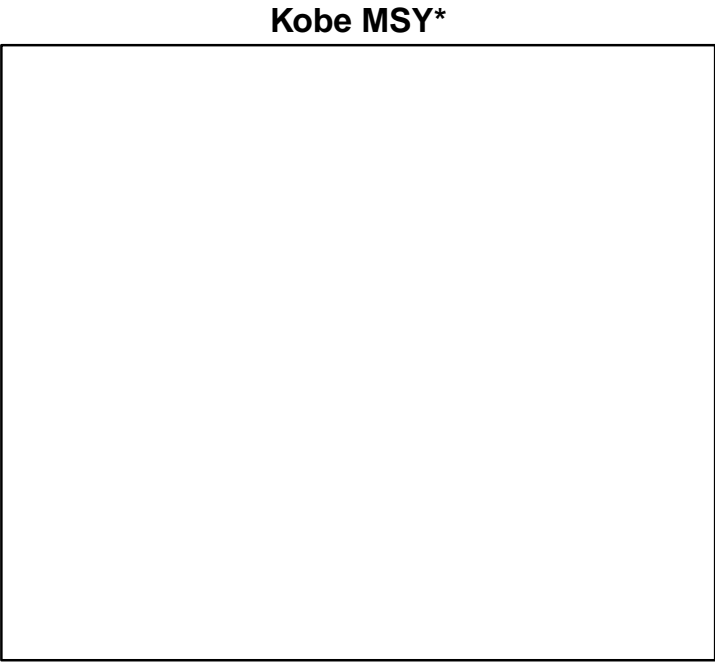


Walleye pollock Bogoslof [WPOLLBOGO]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLBOGO-1977-2020-SISIMP2021-2
Area	Bogoslof
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2017, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2017	0.092
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2017	0.092

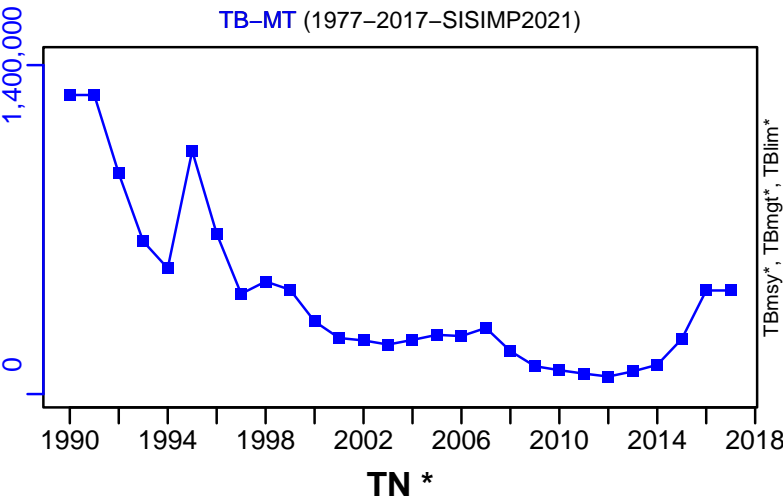
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	434,760	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.003	-	-
TC	TC-MT	2020	8		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.035		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Walleye pollock Bogoslof [WPOLLBOGO]

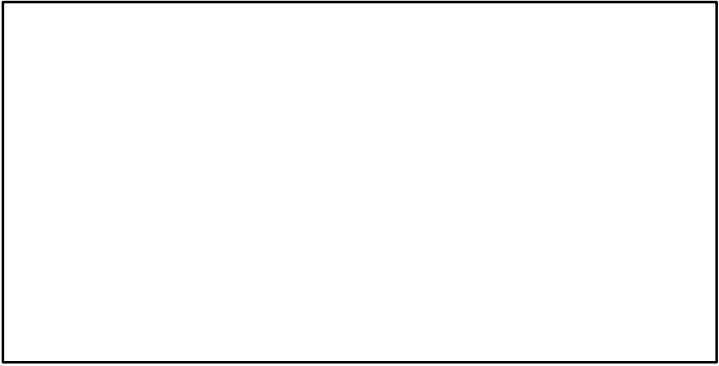
TB-MT (1977-2017-SISIMP2021)



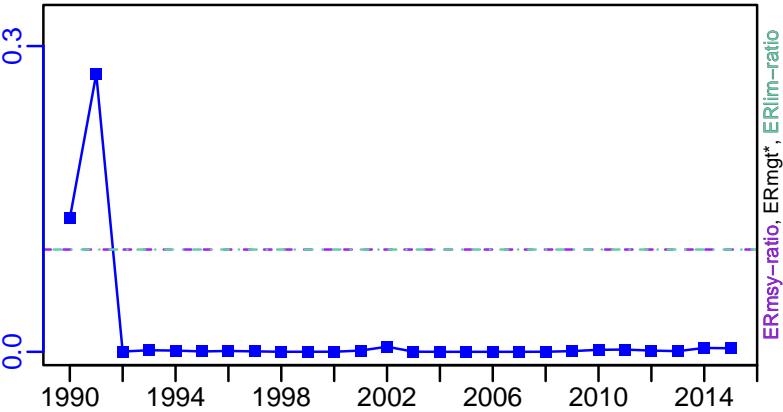
SSB*



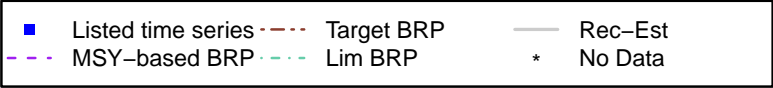
F*



ER-ratio (1977-2017-SISIMP2021)

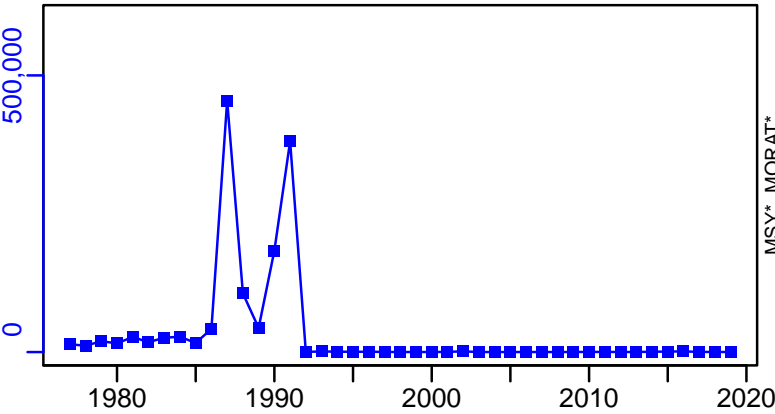


Recruits*



Walleye pollock Bogoslof [WPOLLBOGO]

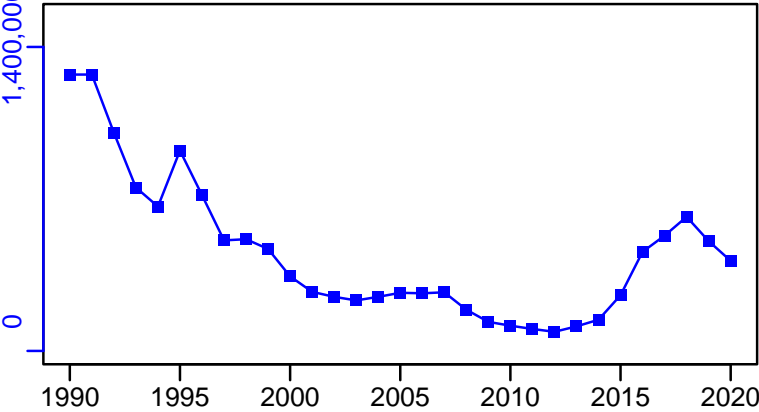
TC-MT, TL*, RecC* (1977-2020-SISIMP2021-2)



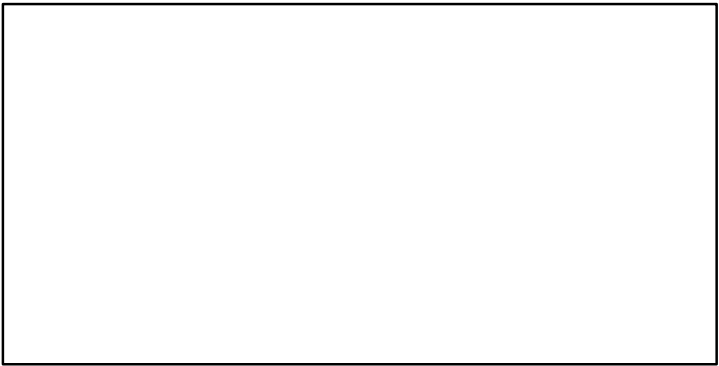
TAC*, Cpair*, Cadv*



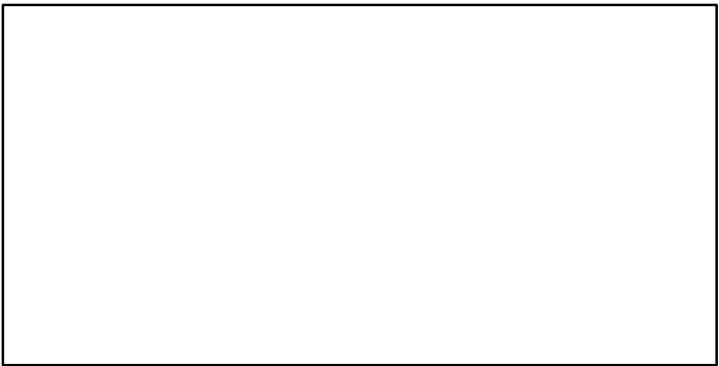
survB-MT (1977-2020-SISIMP2021-2)



CPUE*



CdivMSY*



Walleye pollock Eastern Bering Sea [WPOLLEBS]

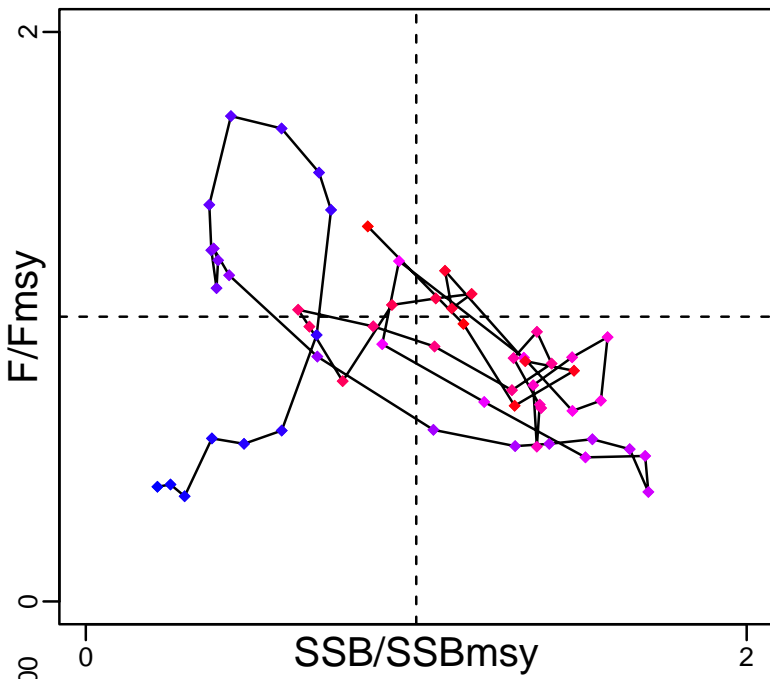
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLEBS-1963-2021-SISIMP2022
Area	Eastern Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2021, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	2,257,000
Fmsy	Fmsy-1/yr	2021	0.46
ERmsy	-	-	-
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	2020	0.508
ERlim	-	-	-

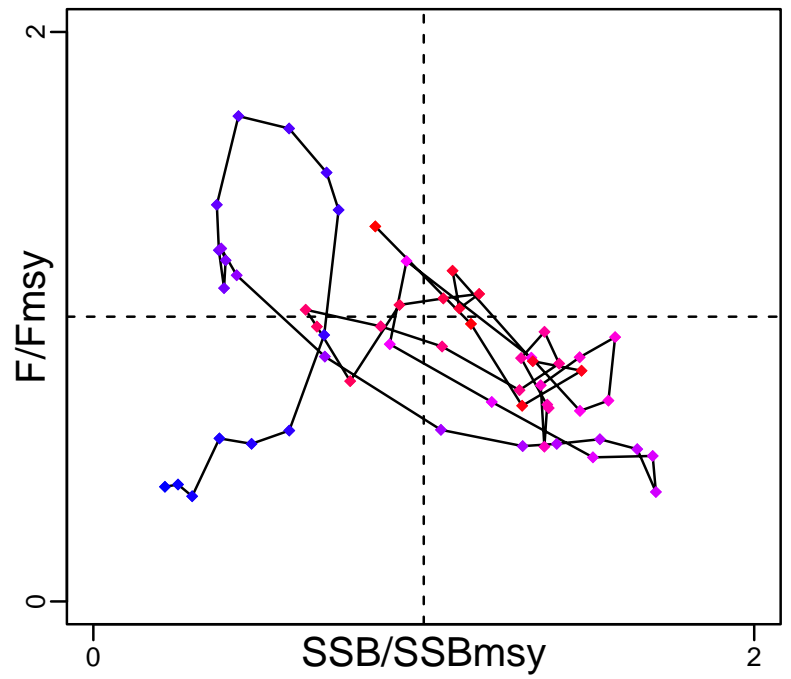
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	7,780,000	-	3+
SSB	SSB-MT	2021	1,797,500	-	-
TN	-	-	-	-	-
R	R-E00	2021	20,205,199,220	-	1
F	F-1/yr	2021	0.606	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2021	1,367,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.796		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.317		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Eastern Bering Sea [WPOLLEBS]

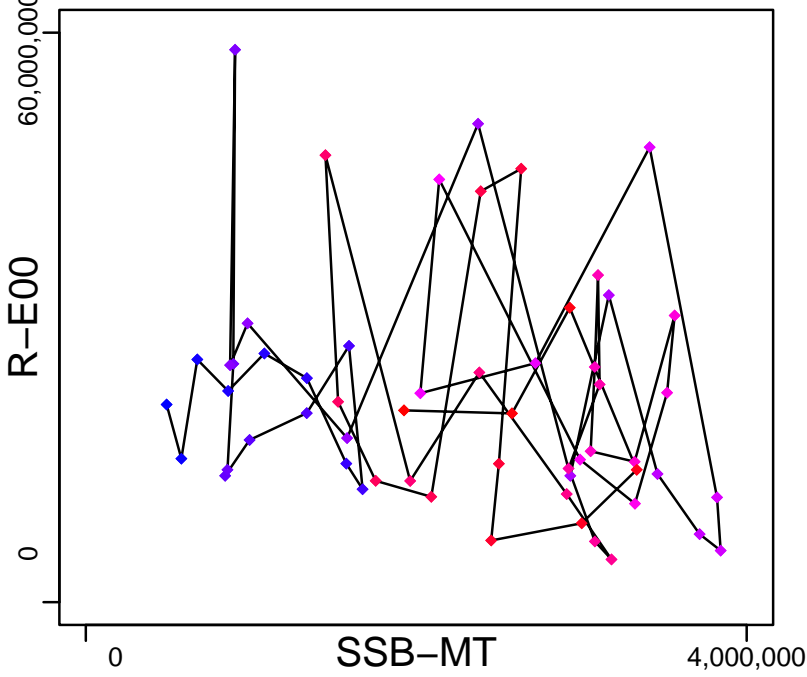
Kobe MSYpref (1963–2021–SISIMP2022)



Kobe MGTpref (1963–2021–SISIMP2022)



Spawner Recruit (1963–2021–SISIMP2022)

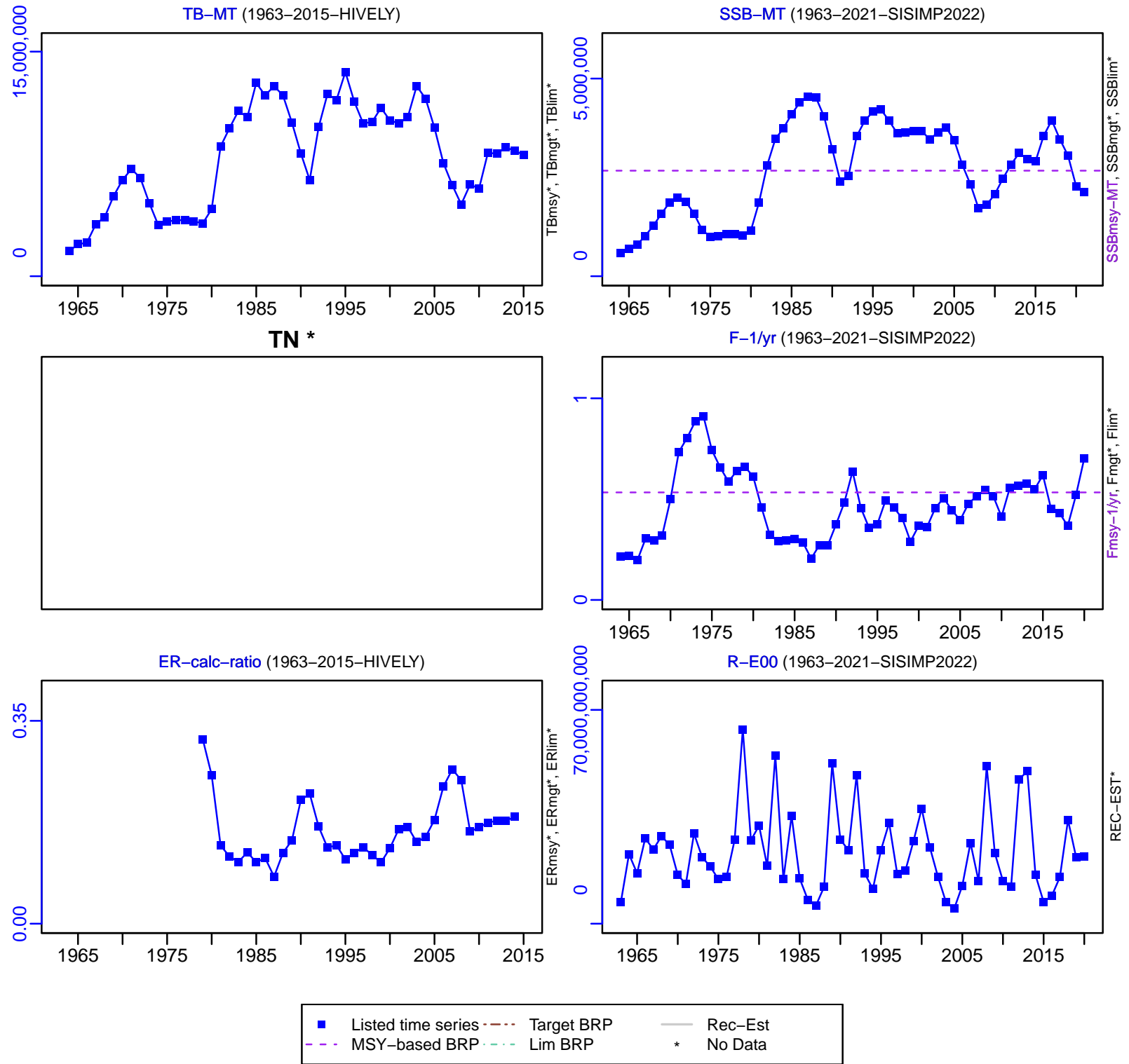


Production*



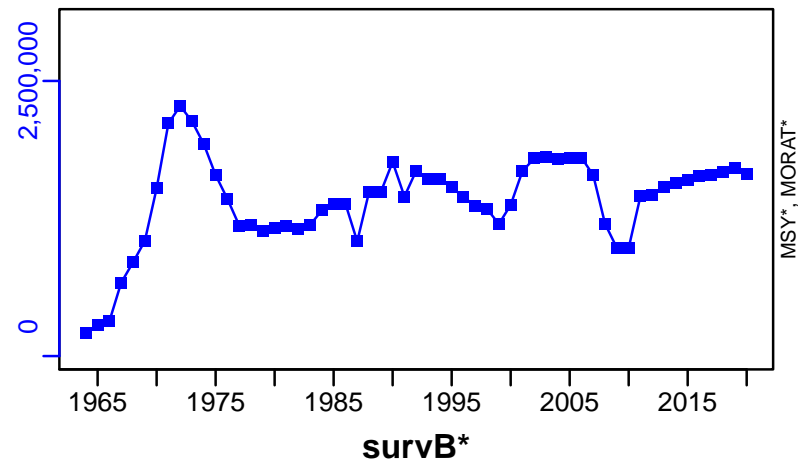
◆ Start Year ◆ End Year * No Data

Walleye pollock Eastern Bering Sea [WPOLLEBS]



Walleye pollock Eastern Bering Sea [WPOLLEBS]

TC-MT, TL*, RecC* (1963–2021–SISIMP2022)



TAC*, Cpair*, Cadv*



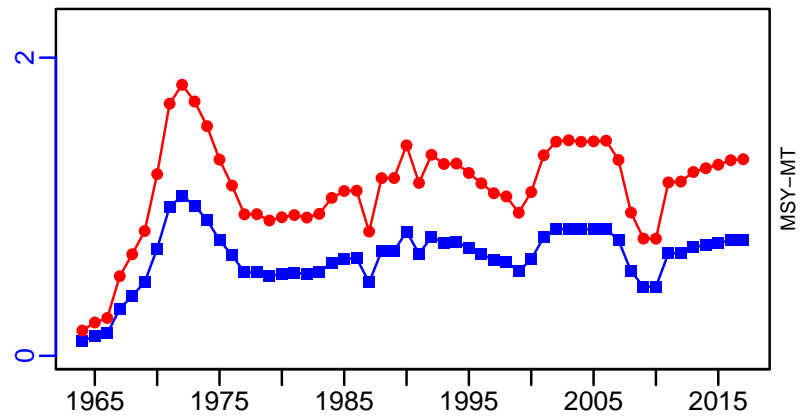
CPUE*



EFFORT*



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



Walleye pollock Gulf of Alaska [WPOLLGA]

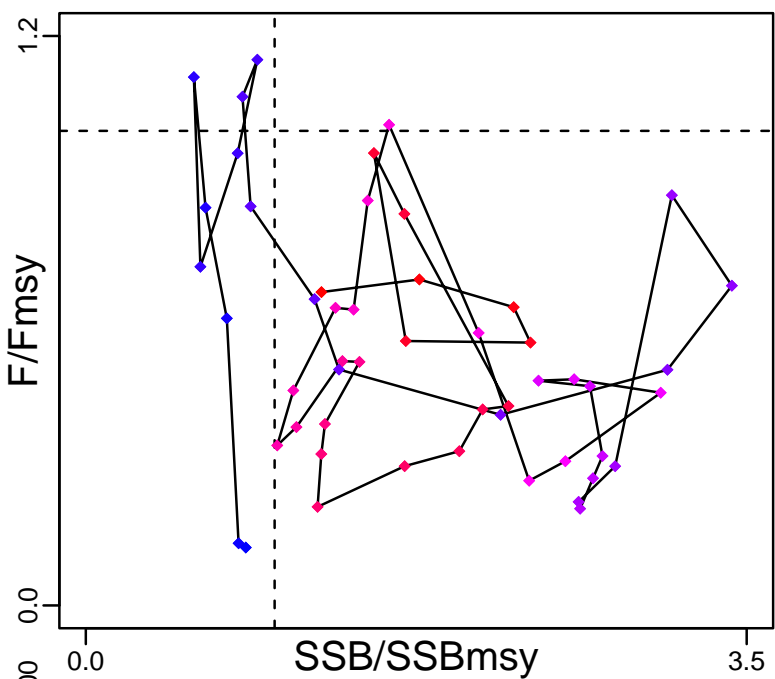
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLGA-1969-2021-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2019, 2016, 2017, 2018, 2021, 2014, 2015, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	150,500
Fmsy	Fmsy-1/yr	2021	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	312,000
Fmgt	Fmgt-1/yr	2015	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2014	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.378
ERlim	-	-	-

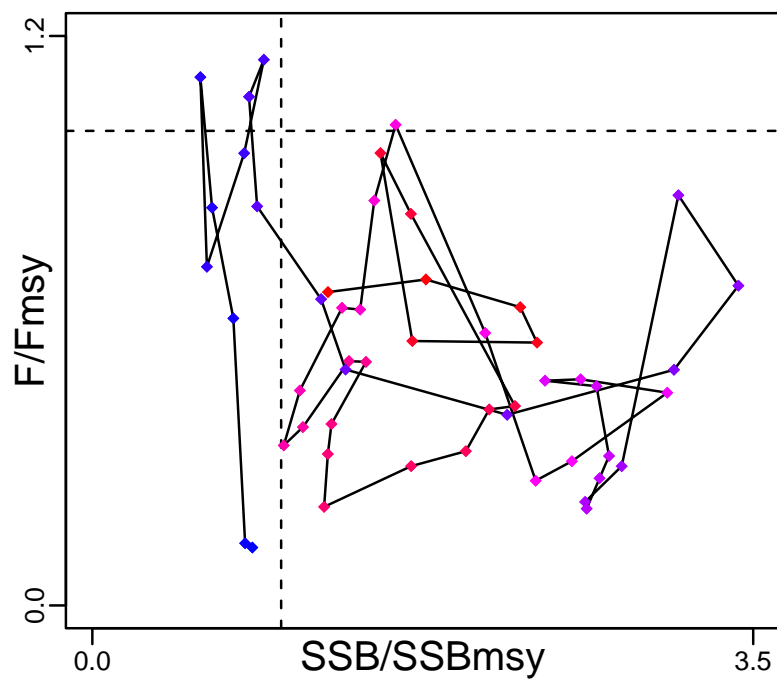
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,730,000	-	3+
SSB	SSB-MT	2021	197,189	-	-
TN	-	-	-	-	-
R	R-E00	2021	10,759,599,610	-	1
F	F-1/yr	2021	0.205	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2021	107,471		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.31		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.66		
ER/ERmsy	-	-	-		
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]

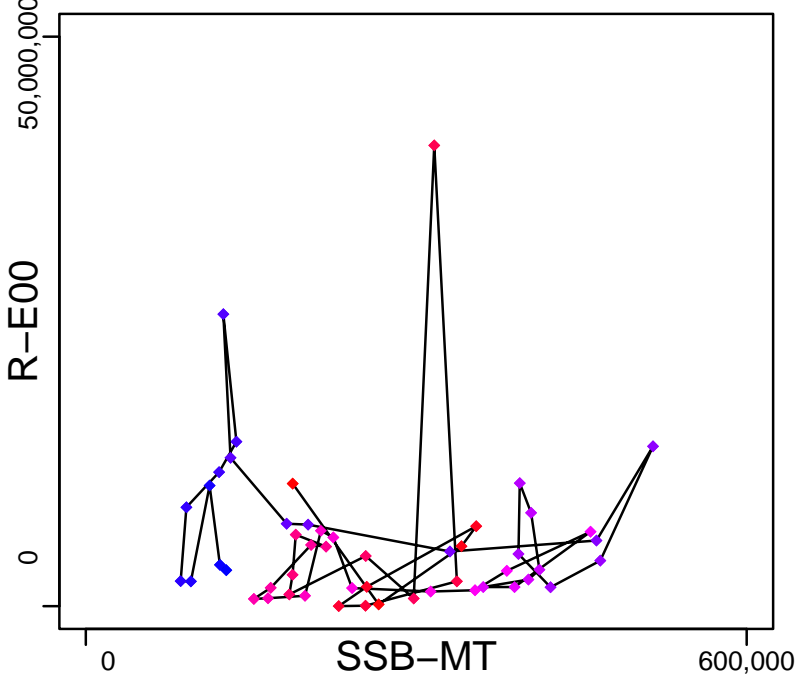
Kobe MSYpref (1969–2021–SISIMP2022)



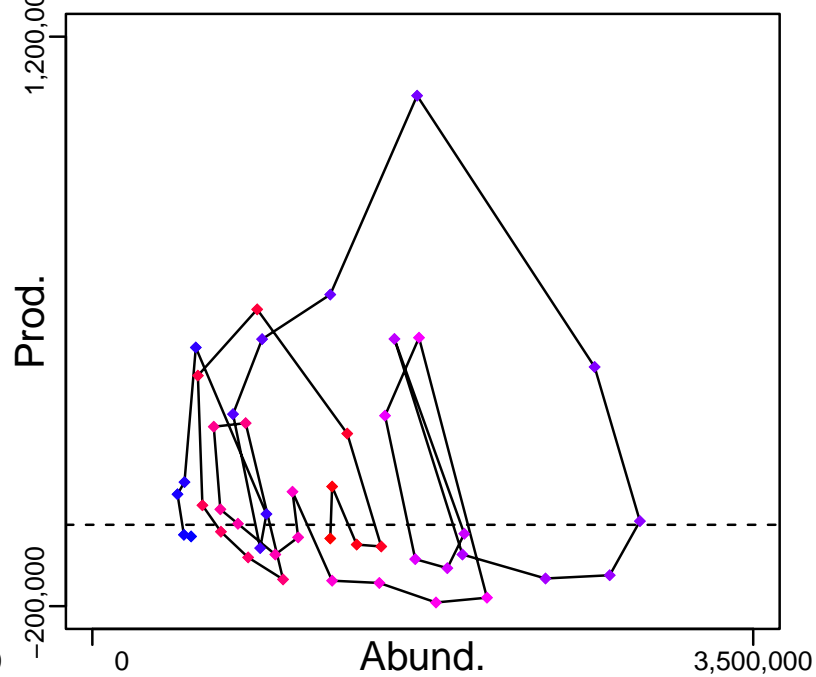
Kobe MGTpref (1969–2021–SISIMP2022)



Spawner Recruit (1969–2021–SISIMP2022)

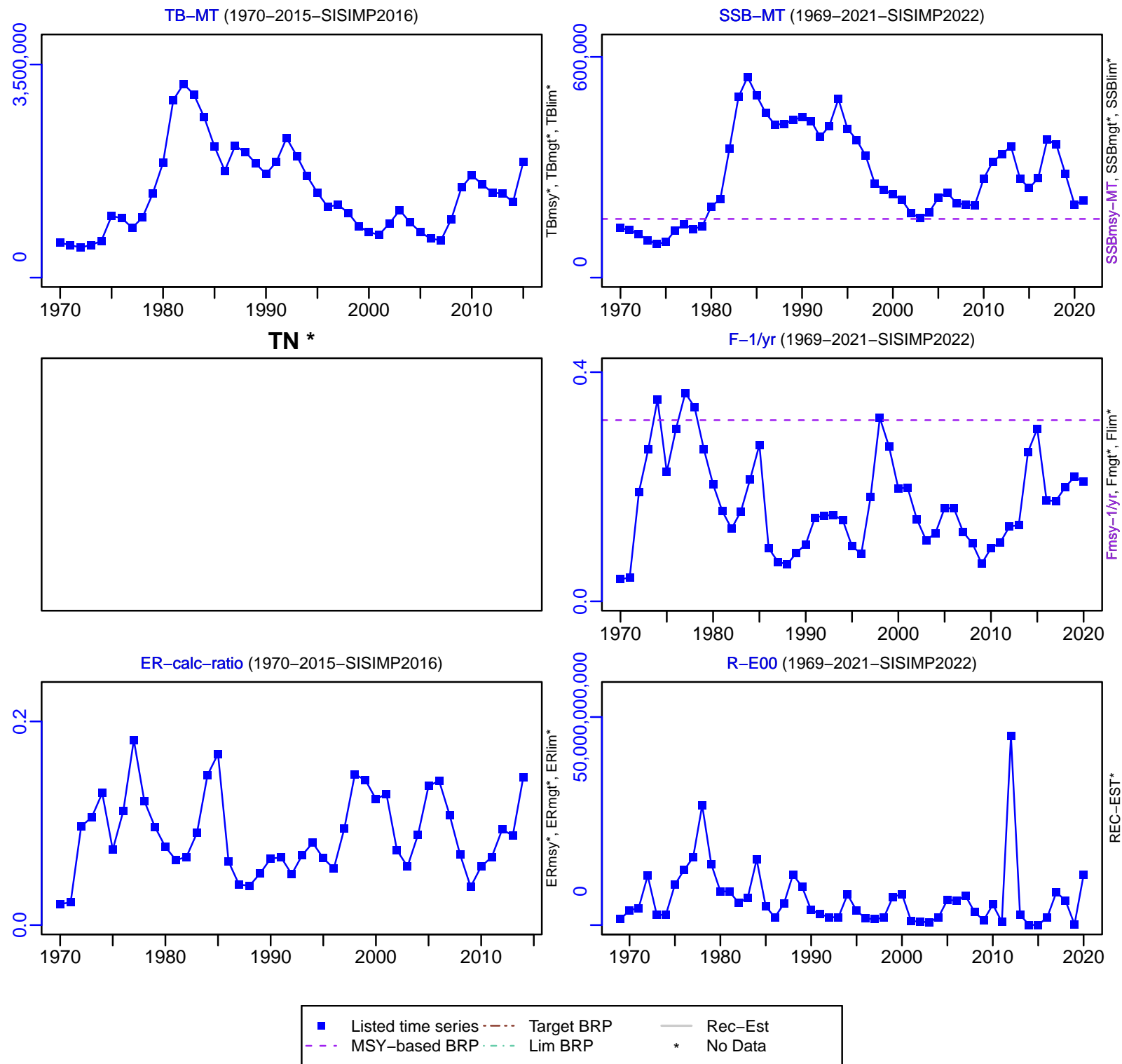


Production (1970–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

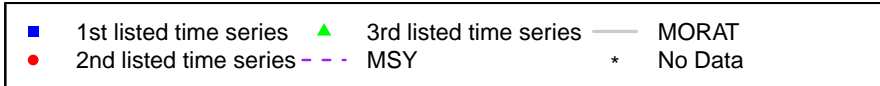
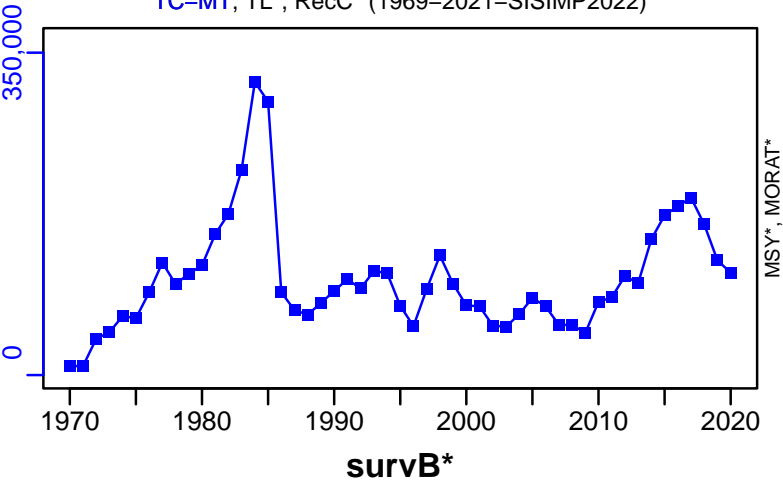
Walleye pollock Gulf of Alaska [WPOLLGA]



Walleye pollock Gulf of Alaska [WPOLLGA]

TC-MT, TL*, RecC* (1969-2021-SISIMP2022)

TAC*, Cpair*, Cadv*



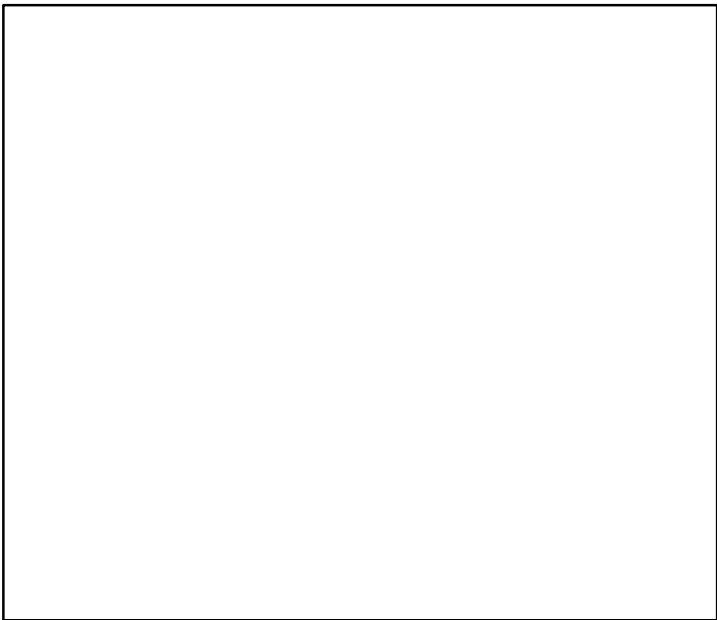
Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLSEGA-1993-2019-SISIMP2021-2
Area	Southeast Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2018, 2019

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	2019	3		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

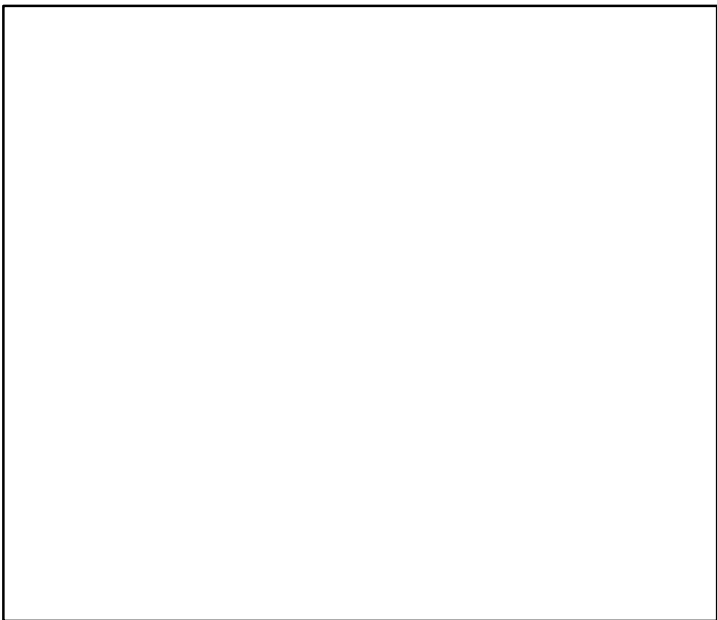
Kobe MSY*



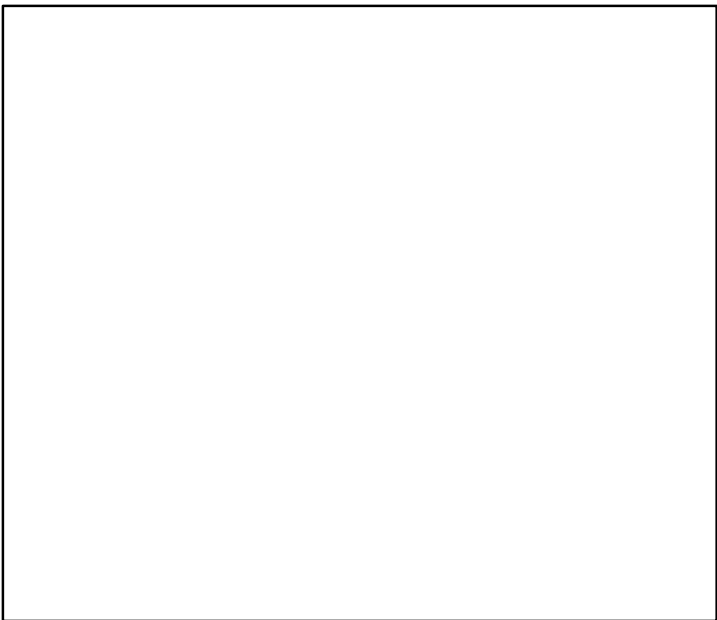
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

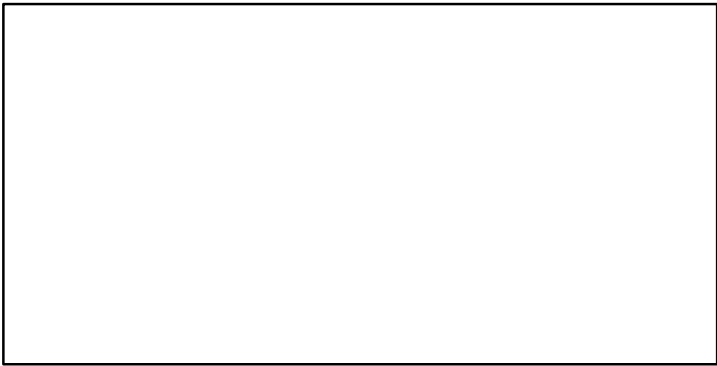
TB*



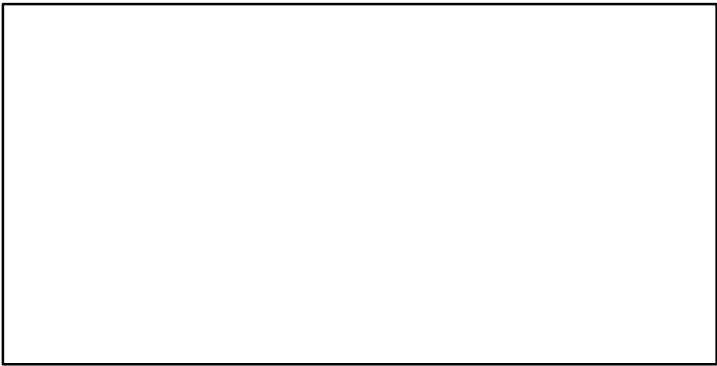
SSB*



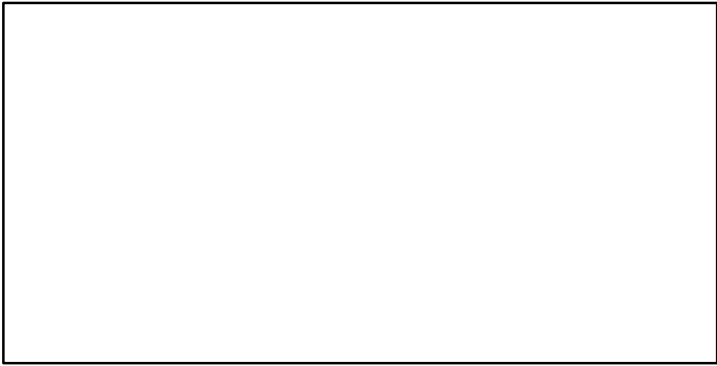
TN *



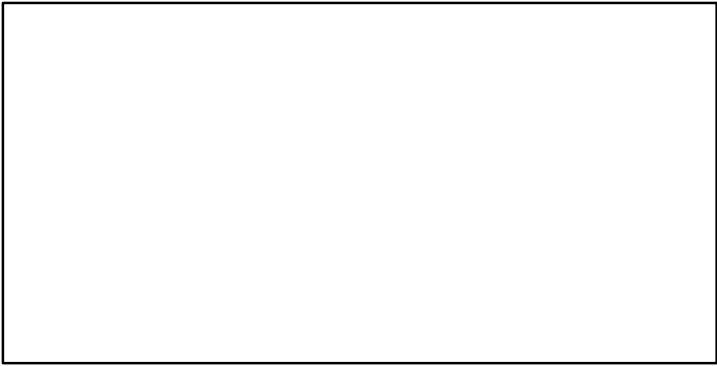
F*









ER*



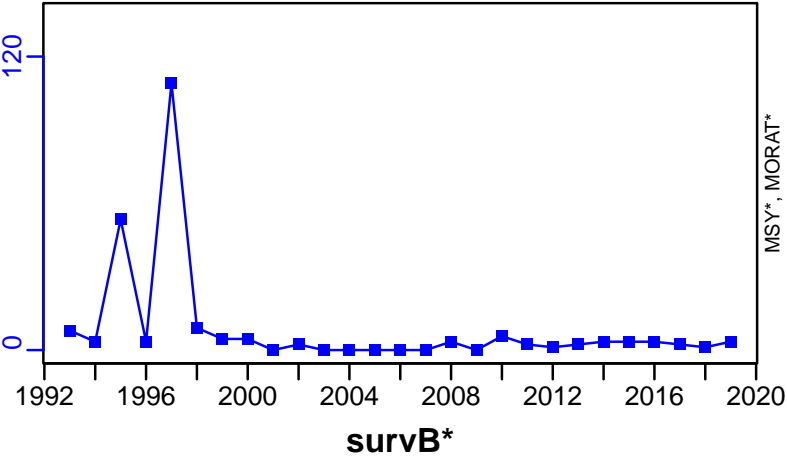
Recruits*



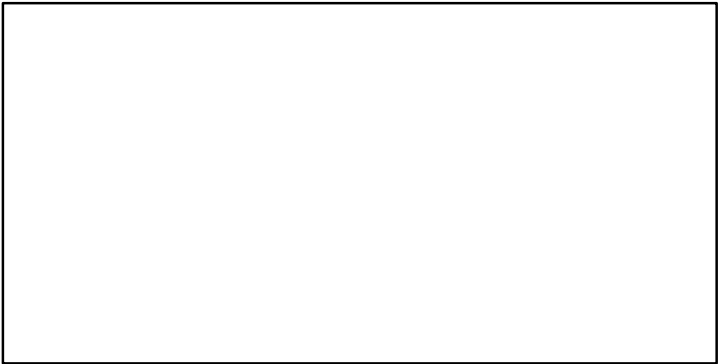
 Listed time series	 Target BRP	 Rec-Est
 MSY-based BRP	 Lim BRP	 No Data

Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

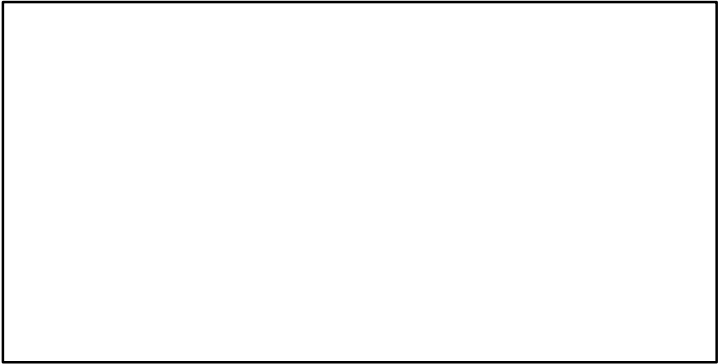
TC-MT, TL*, RecC* (1993-2019-SISIMP2021-2)



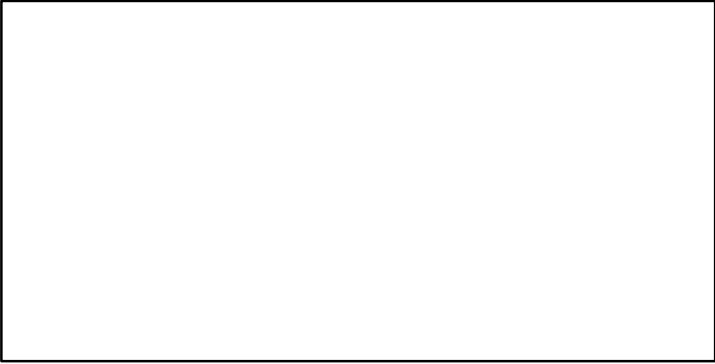
TAC*, Cpair*, Cadv*



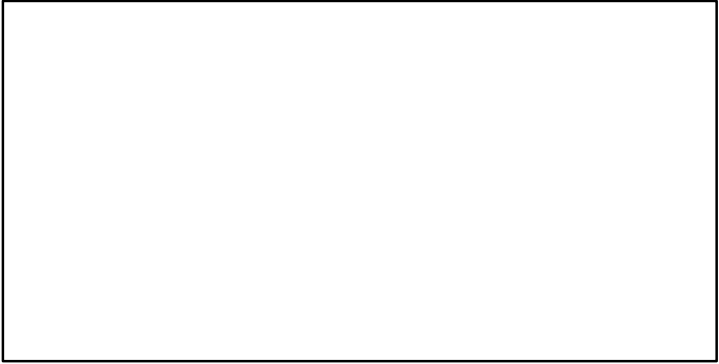
CPUE*



EFFORT*



CdivMSY*



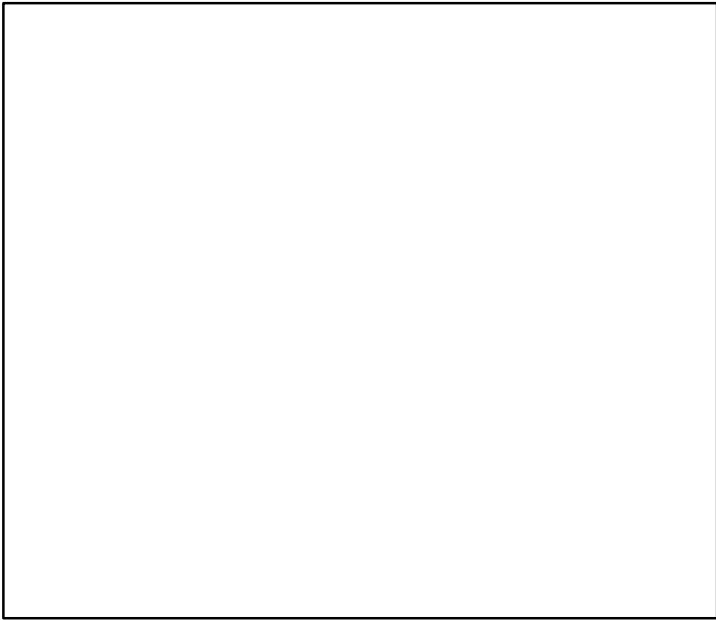
Weathervane scallop Alaska [WVSCALLALASKA]

Metadata	
Scientific Name	Patinopecten caurinus
Current Assess ID	AFSC-WVSCALLALASKA-1994-2020-SISIMP2021-2
Area	Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020

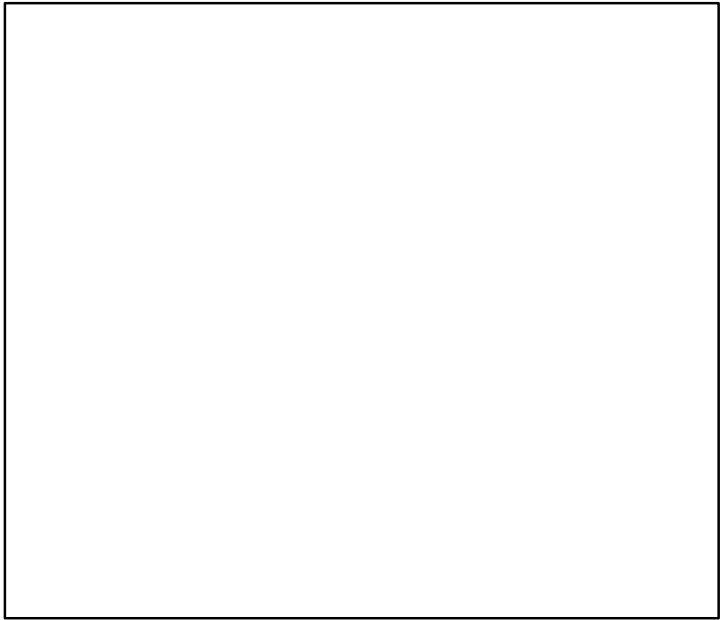
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2020	581
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	106		
TL	TL-MT	2020	112		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

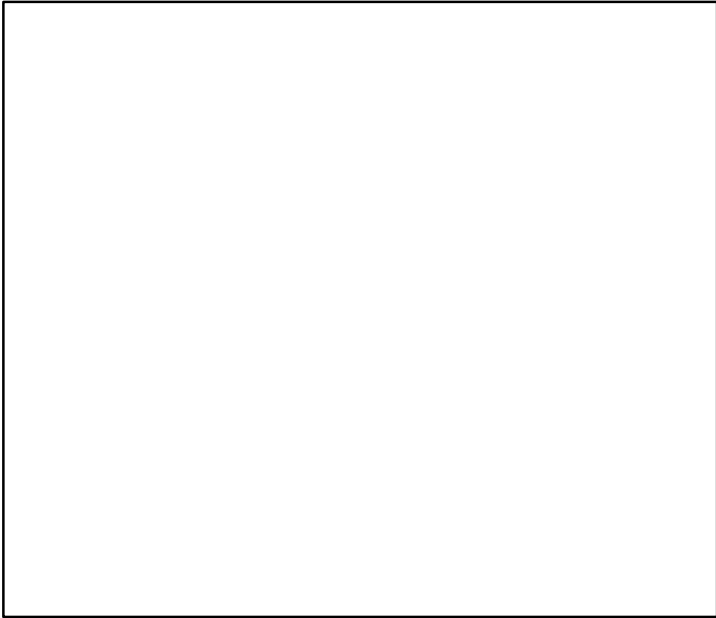
Kobe MSY*



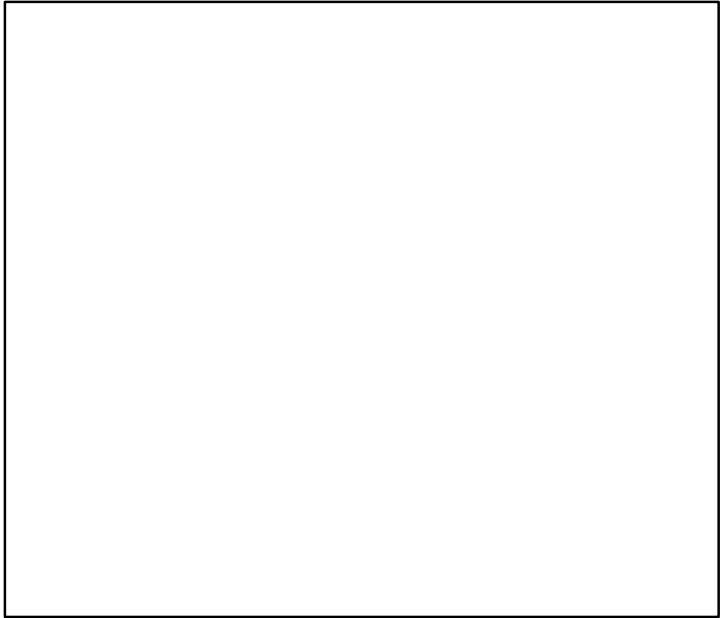
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Weathervane scallop Alaska [WVSCALLALASKA]

TB*



SSB*



TN *



F*



ER*

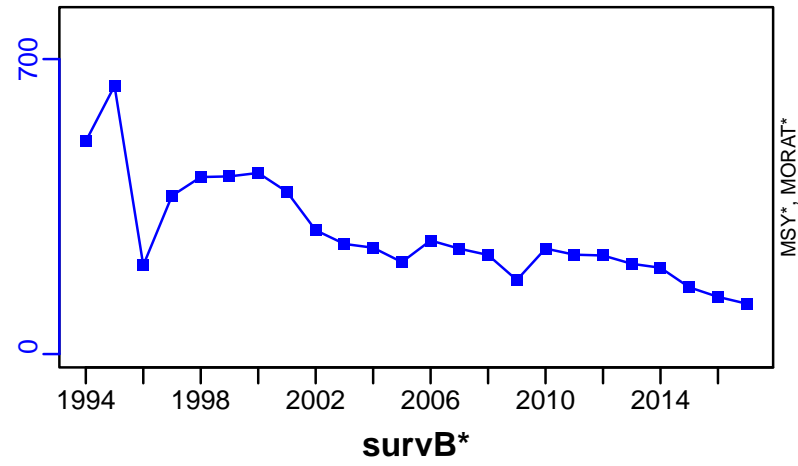


Recruits*



Weathervane scallop Alaska [WVSCALLALASKA]

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



TAC*, Cpair*, Cadv*



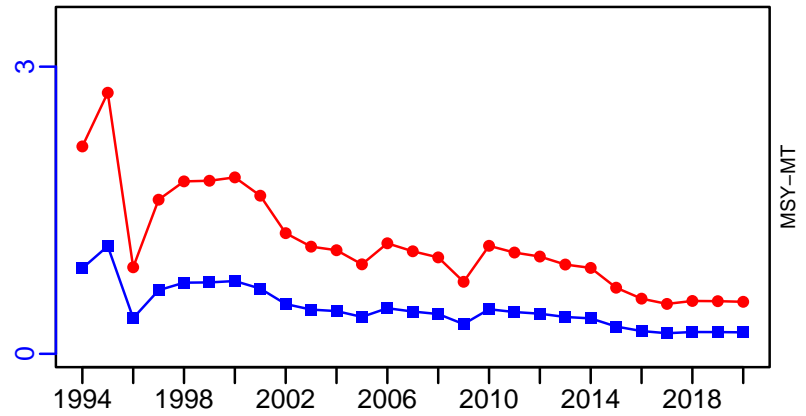
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1994-2020-SISIMP2021-2)



Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

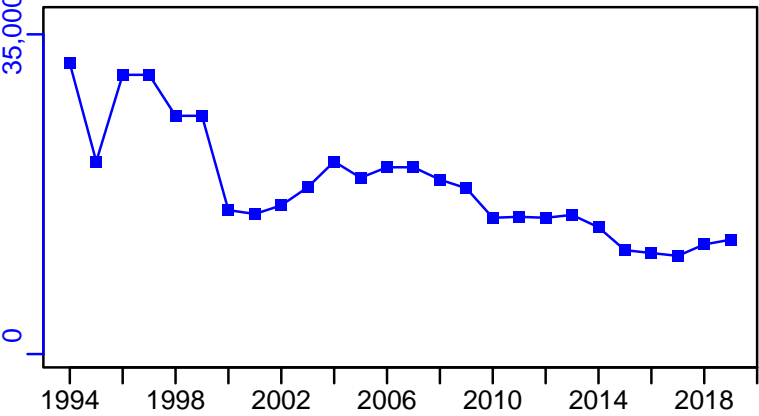
Metadata	
Scientific Name	Sebastes ruberrimus
Current Assess ID	AFSC-YEYEROCKGA-1992-2020-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2016, 2016, 2017, 2019, 2020

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

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

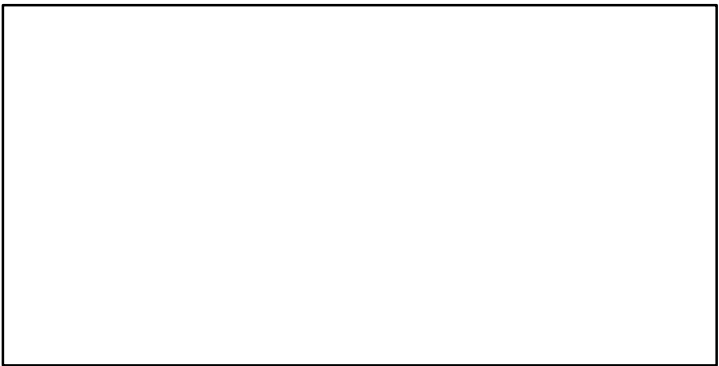
Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

TB-MT (1992-2019-SISIMP2021-2)

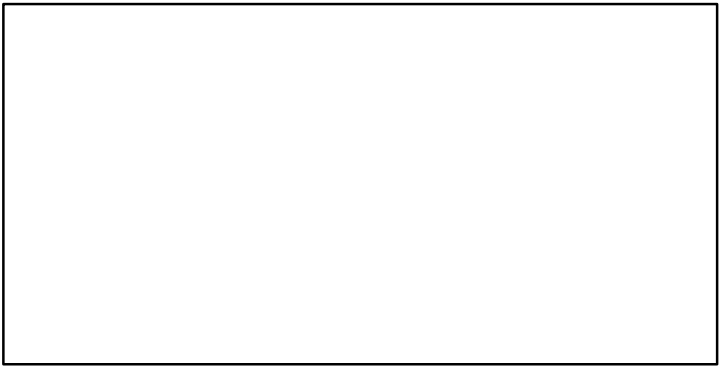


TBmsy*, TBmgt*, TBlim*

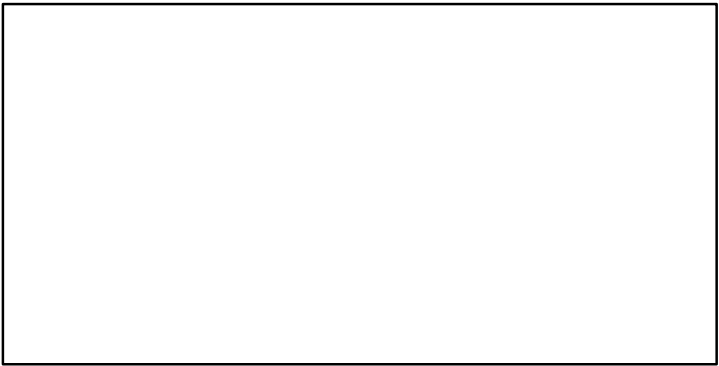
SSB*



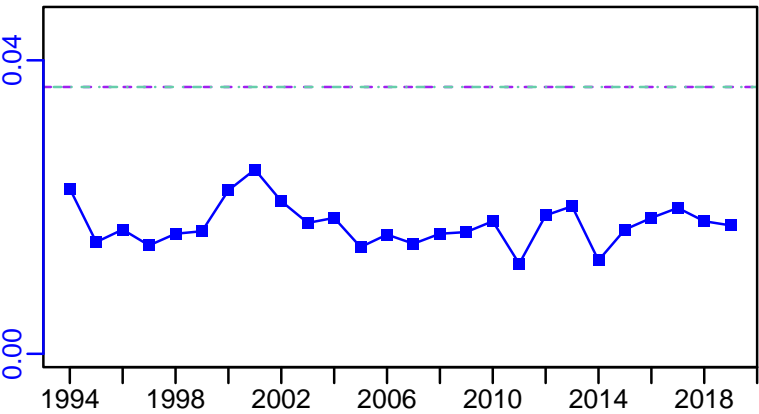
TN *



F*

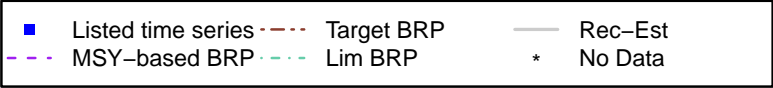
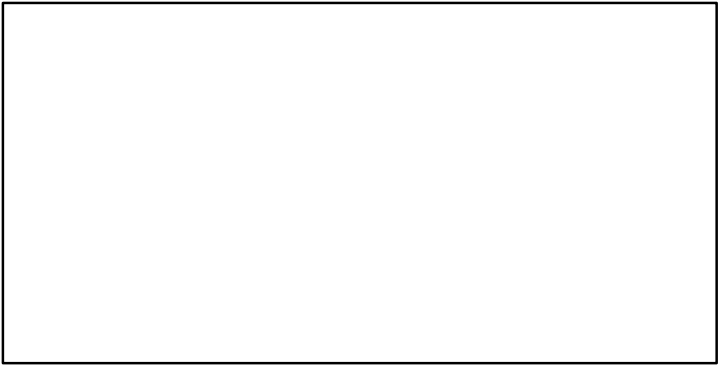


ER-ratio (1992-2020-SISIMP2021-2)



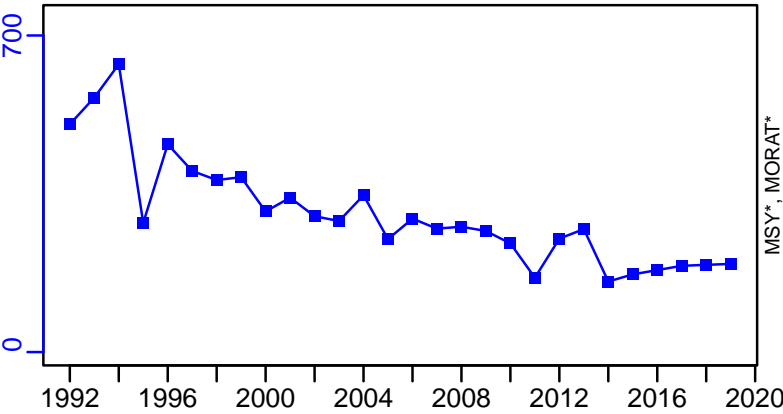
ERmsy-ratio, ERmgt*, ERlim-ratio

Recruits*



Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

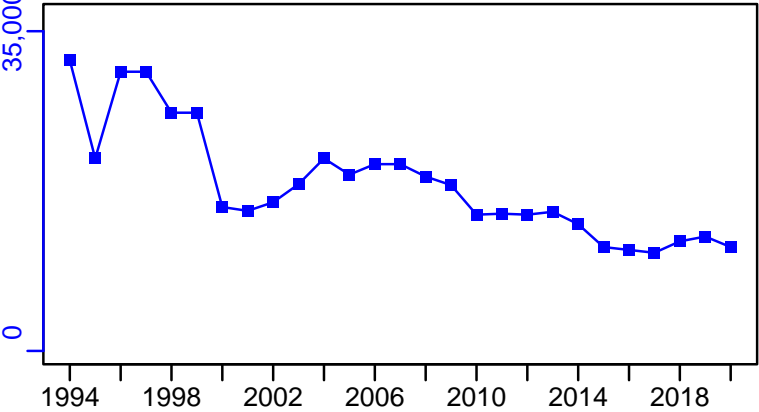
TC-MT, TL*, RecC* (1992-2020-SISIMP2021-2)



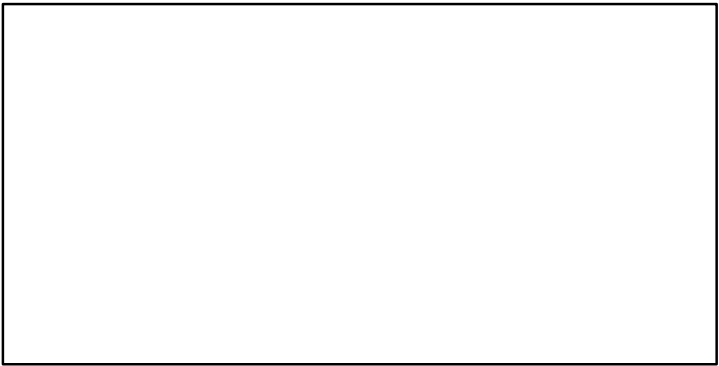
TAC*, Cpair*, Cadv*



survB-MT (1992-2020-SISIMP2021-2)



CPUE*



CdivMSY*



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

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

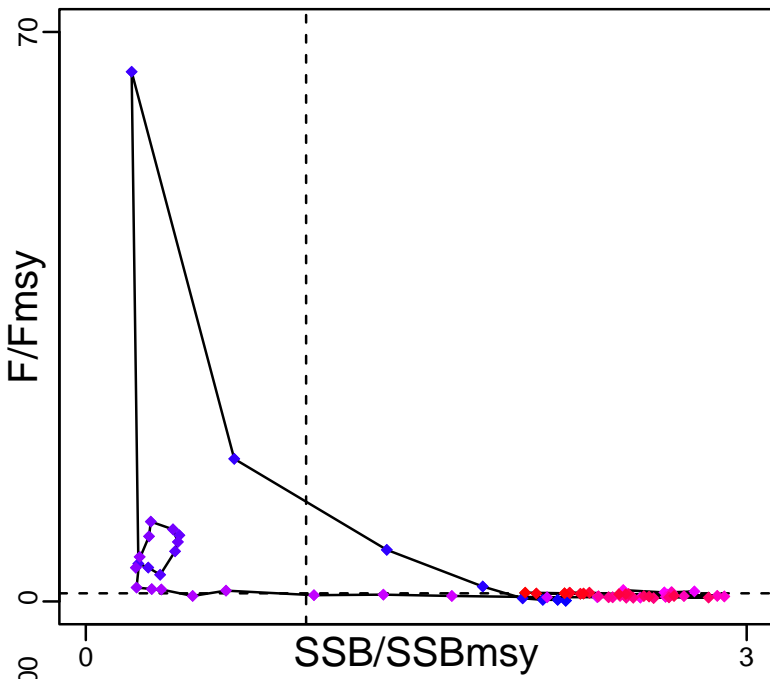
Metadata	
Scientific Name	Limanda aspera
Current Assess ID	AFSC-YSOLEBSAI-1953-2021-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2021, 2015, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	495,904
Fmsy	Fmsy-1/yr	2021	0.152
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2020	0.163
ERlim	-	-	-

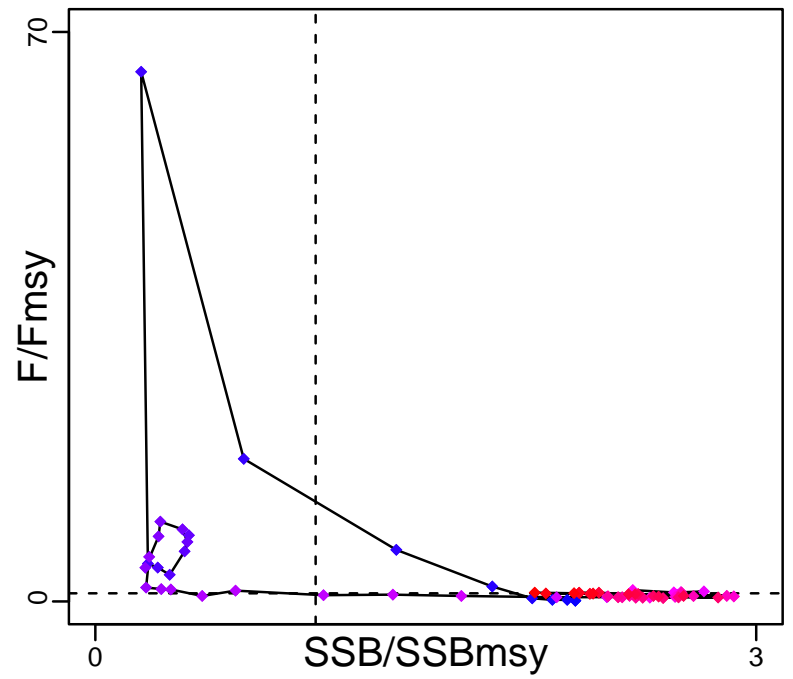
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,310,000	-	1+
SSB	SSB-MT	2021	941,735	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,627,979,994	-	1
F	F-1/yr	2021	0.164	-	-
ER	ER-calc-ratio	2015	0.067	-	-
TC	TC-MT	2021	133,789		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.899		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.078		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

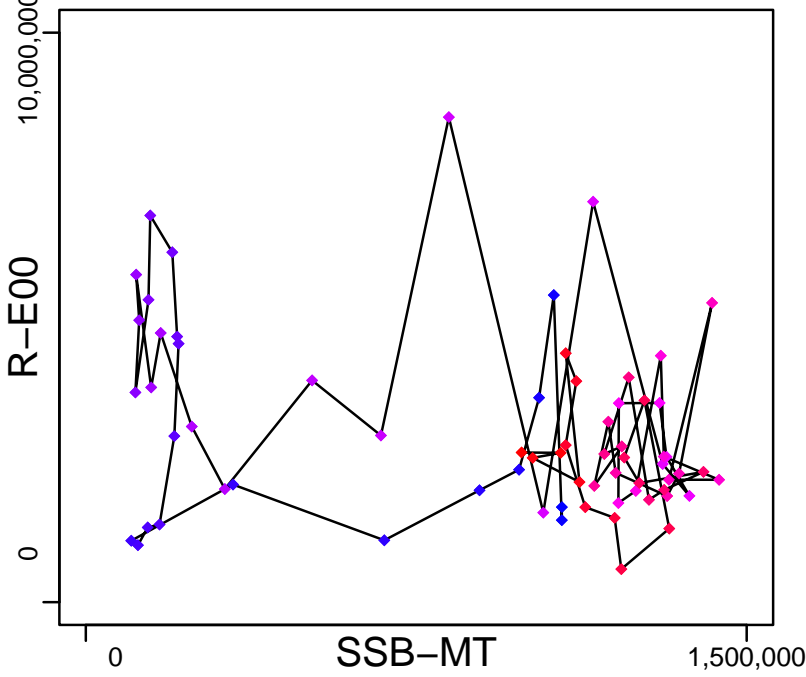
Kobe MSY_{pref} (1953–2021–SISIMP2022)



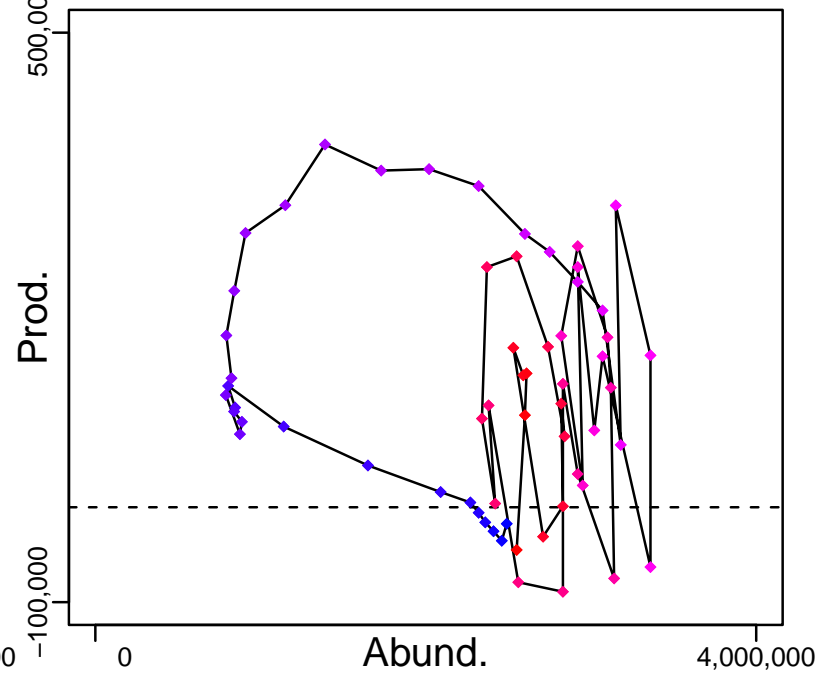
Kobe MGT_{pref} (1953–2021–SISIMP2022)



Spawner Recruit (1953–2021–SISIMP2022)



Production (1954–2015–SISIMP2016)

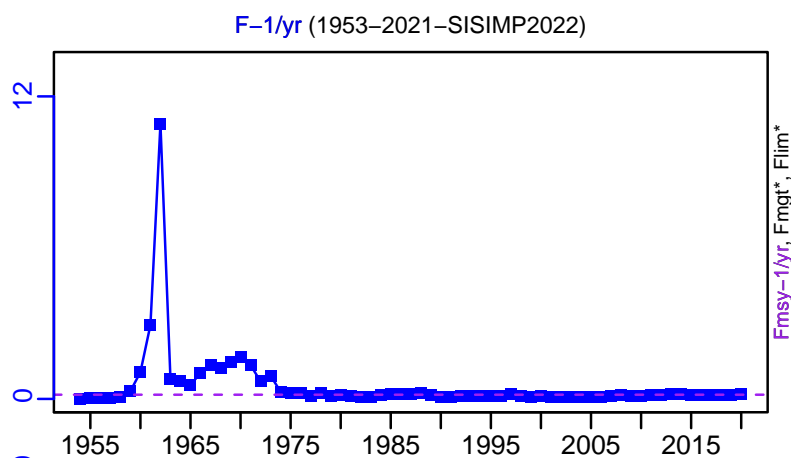
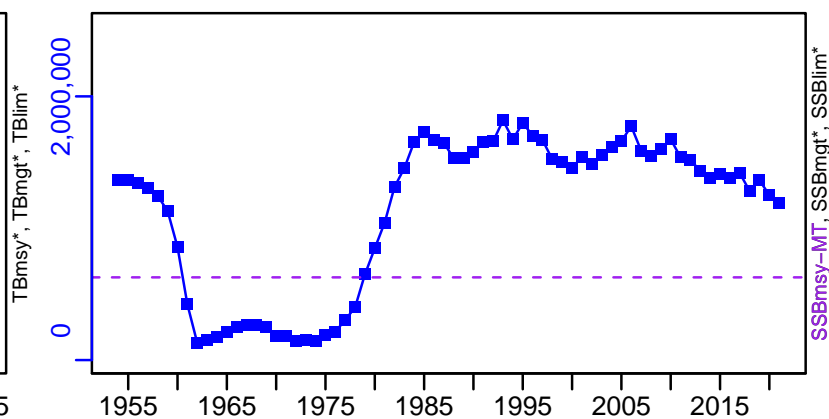
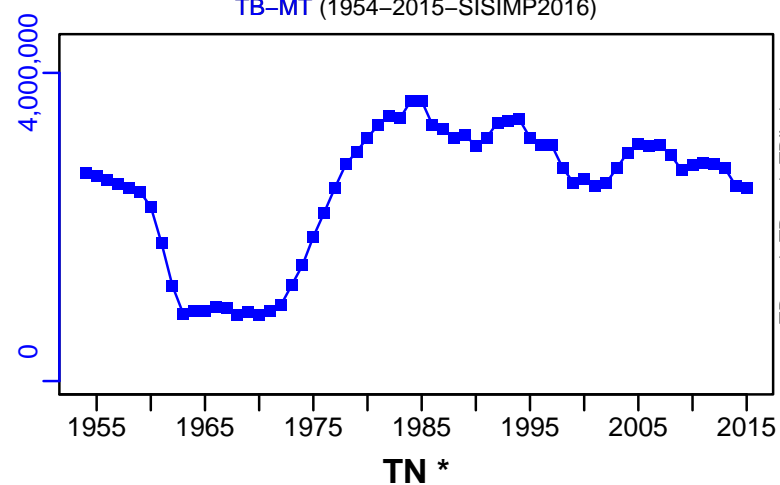


◆ Start Year ◆ End Year * No Data

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

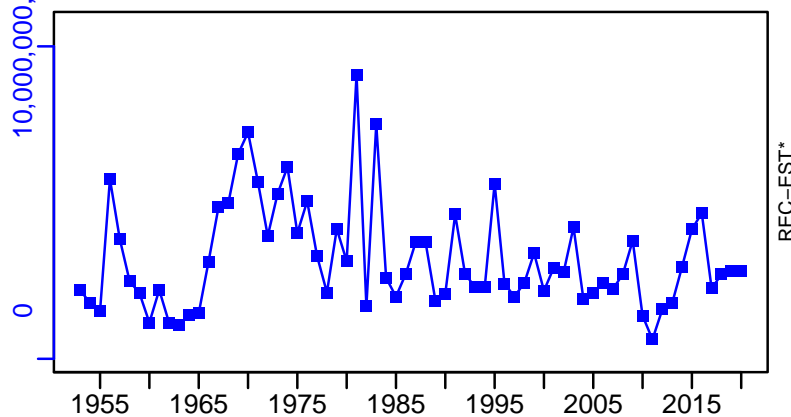
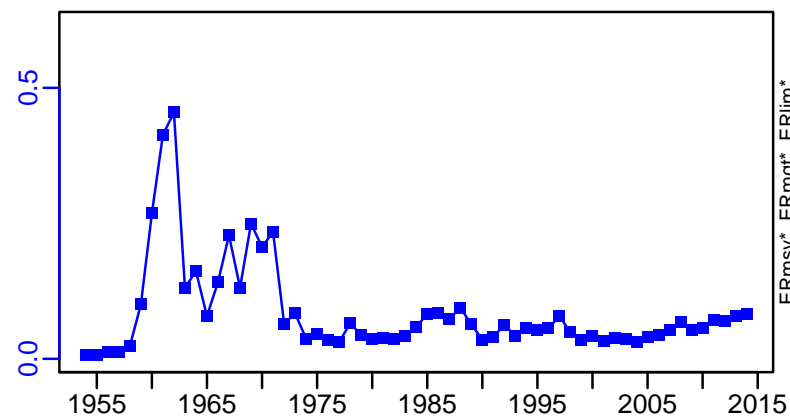
TB-MT (1954–2015–SISIMP2016)

SSB-MT (1953–2021–SISIMP2022)



ER-calc-ratio (1954–2015–SISIMP2016)

R-E00 (1953–2021–SISIMP2022)



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

TC-MT, TL*, RecC* (1953-2021-SISIMP2022)

TAC*, Cpair*, Cadv*

