

US Alaska Stocks

v4.491 (Dec-21-2019)

Not present Present Preferred

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

35. RKCRAPI [Red king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
36. RSOLEGA [Rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
37. SABLEFEBSAIGA [Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
38. SNOWCRABBS [Snow crab Bering Sea]	TB SSB	ER F	TB SSB	ER F
39. SRAKEROCKBSAI [Shortraker rockfish Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
40. SRAKEROCKGA [Shortraker rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
41. SSTHORNHGA [Shortspine thornyhead Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
42. TANNERCRABBSAI [Tanner crab Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
43. WPOLLAI [Walleye pollock Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
44. WPOLLBOGO [Walleye pollock Bogoslof]	TB SSB	ER F	TB SSB	ER F
45. WPOLLEBS [Walleye pollock Eastern Bering Sea]	TB SSB	ER F	TB SSB	ER F
46. WPOLLGA [Walleye pollock Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
47. WVSCALLALASKA [Weathervane scallop Alaska]	TB SSB	ER F	TB SSB	ER F
48. YEYEROCKGA [Yelloweye rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
49. YSOLEBSAI [Yellowfin sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

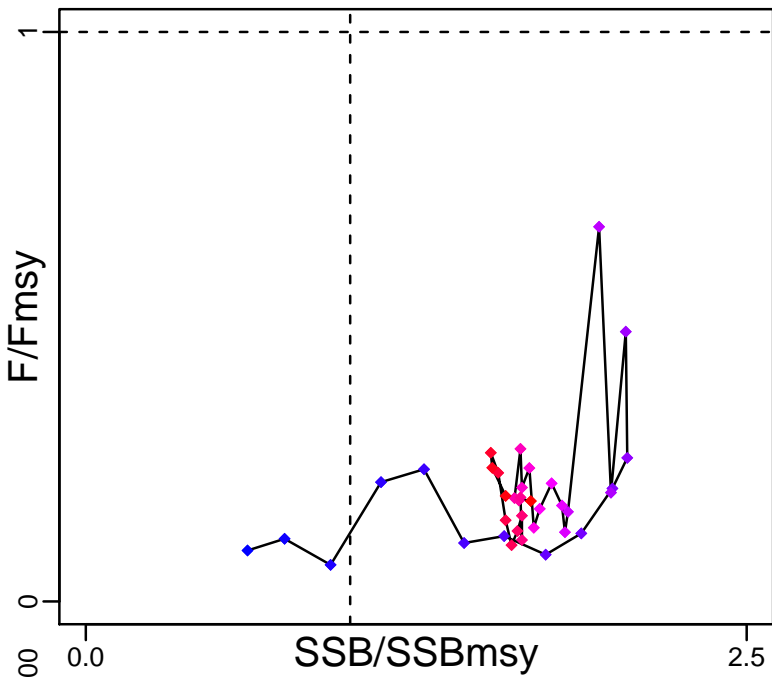
Metadata	
Scientific Name	Pleuronectes quadrituberculatus
Current Assess ID	AFSC-ALPLAICBSAI-1975-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	115,087
Fmsy	Fmsy-pr-1/yr	2010	0.19
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

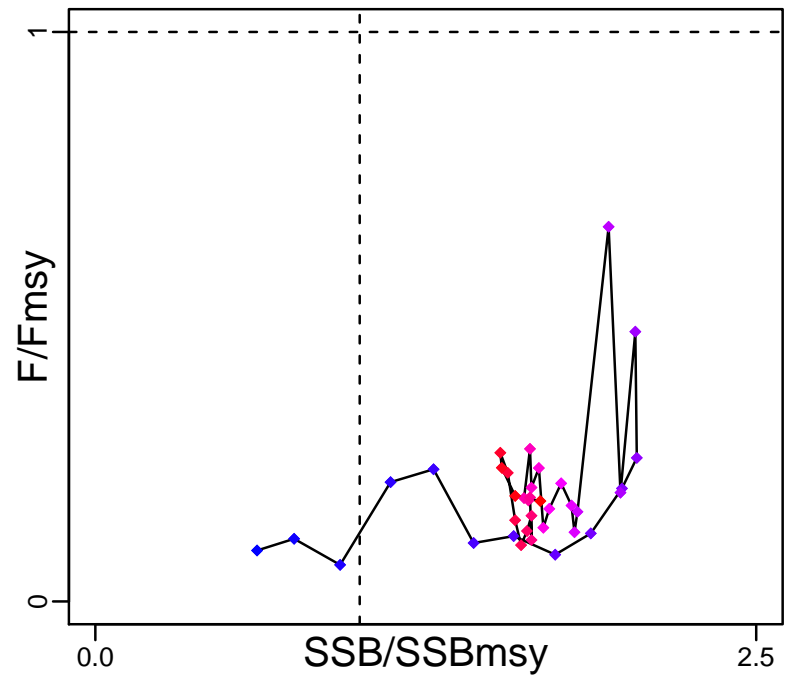
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	485,000	Both	1+
SSB	SSB-MT	2015	215,000	Females	9+
TN	-	-	-	-	-
R	R-E00	2015	3.05×10^{11}	-	1
F	F-1/yr	2015	0.057	-	-
ER	ER-calc-ratio	2015	0.04	-	-
TC	TC-MT	2015	19,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.868		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.176		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

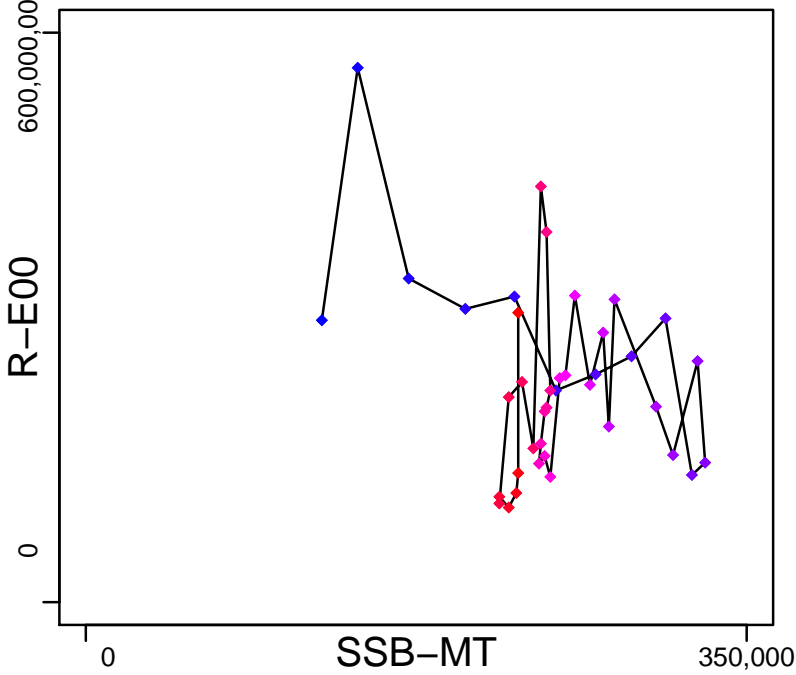
Kobe MSYpref (1972–2010–STACHURA)



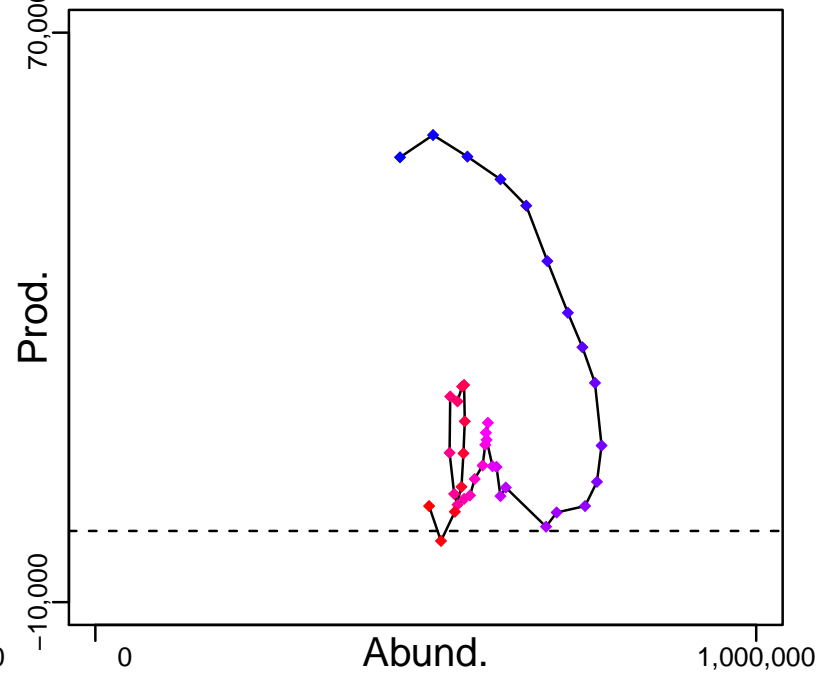
Kobe MGTpref (1972–2010–STACHURA)



Spawner Recruit (1975–2015–SISIMP2016)



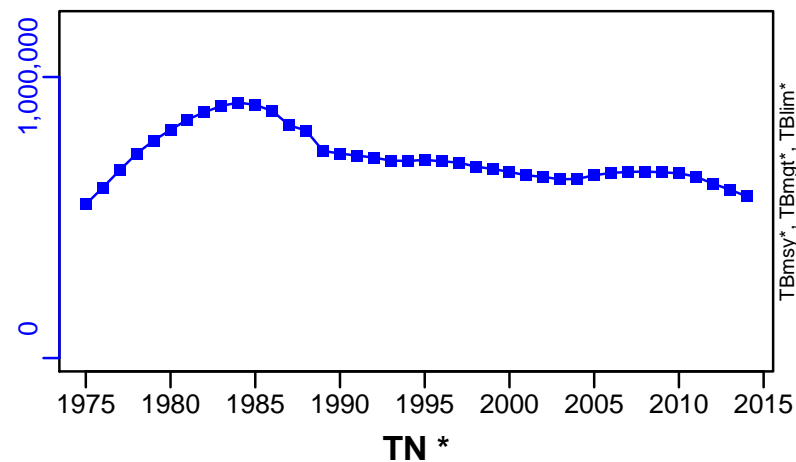
Production (1975–2015–SISIMP2016)



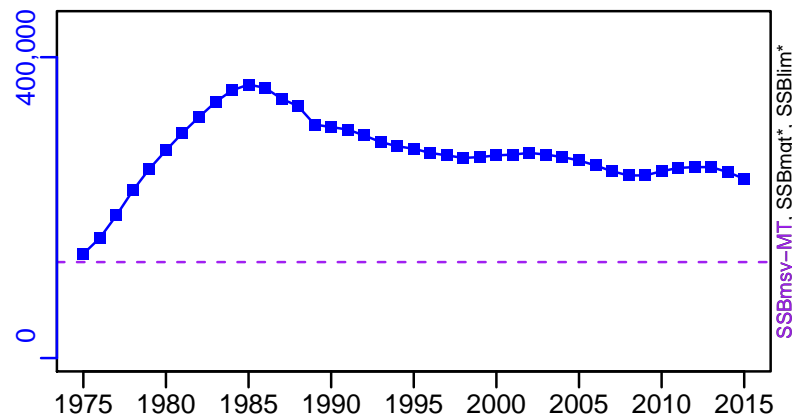
◆ Start Year ◆ End Year * No Data

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

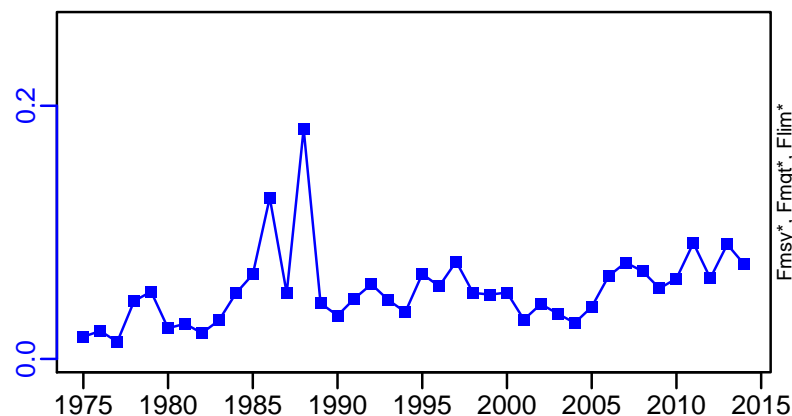
TB-MT (1975–2015–SISIMP2016)



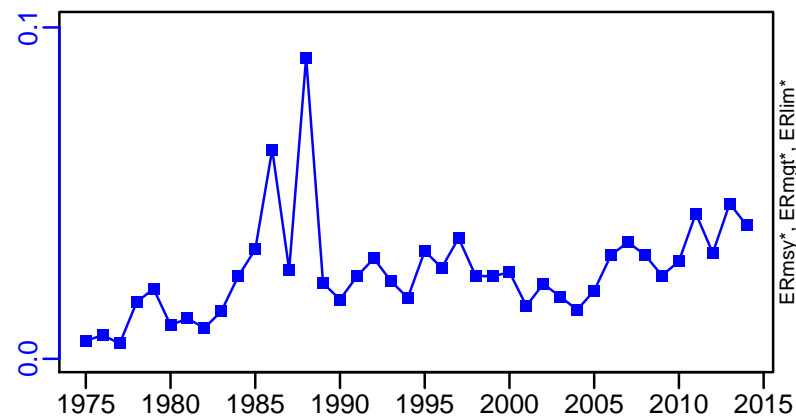
SSB-MT (1975–2015–SISIMP2016)



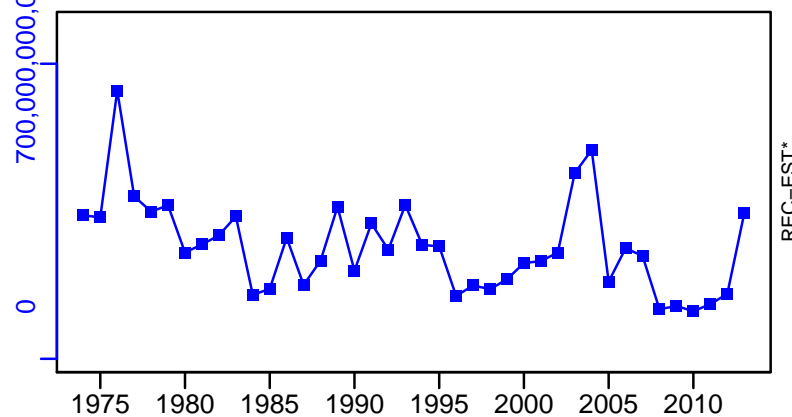
F-1/yr (1975–2015–SISIMP2016)



ER-calc-ratio (1975–2015–SISIMP2016)

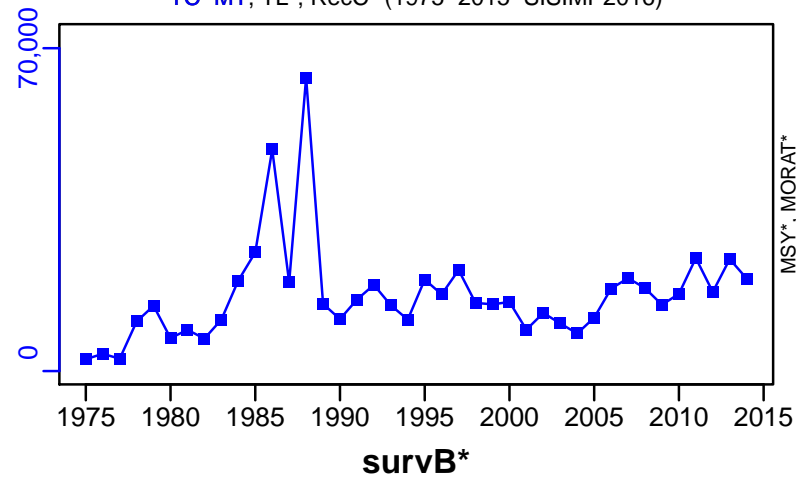


R-E00 (1975–2015–SISIMP2016)



Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

TC-MT, TL*, RecC* (1975-2015-SISIMP2016)



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-1950-2015-SISIMP2016
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-MT	2015	65,423
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	2015	519,000	Both	0+
SSB	SSB-MT	2015	115,000	Females	10+
TN	-	-	-	-	-
R	R-E00	2015	26,600,000	-	0
F	F-1/yr	2015	0.056	-	-
ER	ER-calc-ratio	2015	0.048	-	-
TC	TC-MT	2015	24,800		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.758		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

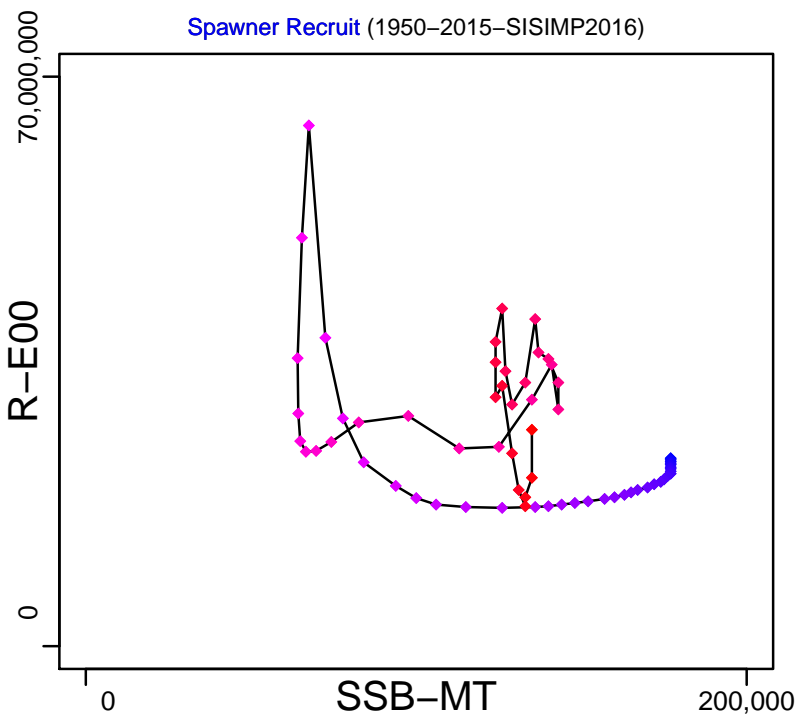
Kobe MSY*



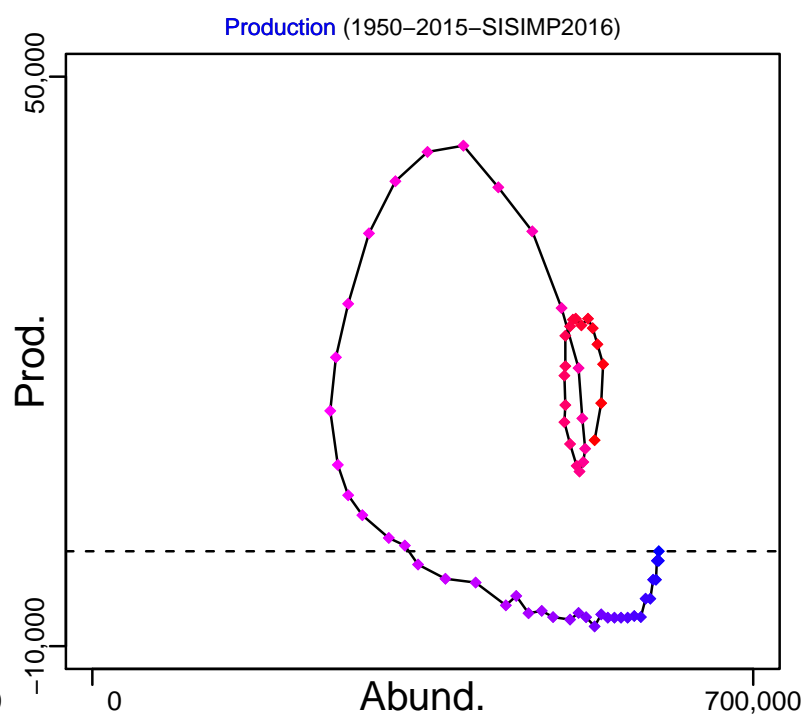
Kobe MGT*



Spawner Recruit (1950–2015–SISIMP2016)



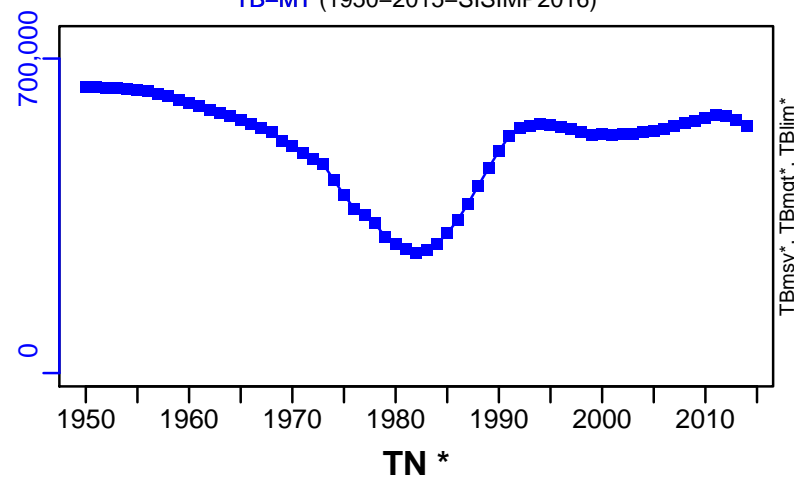
Production (1950–2015–SISIMP2016)



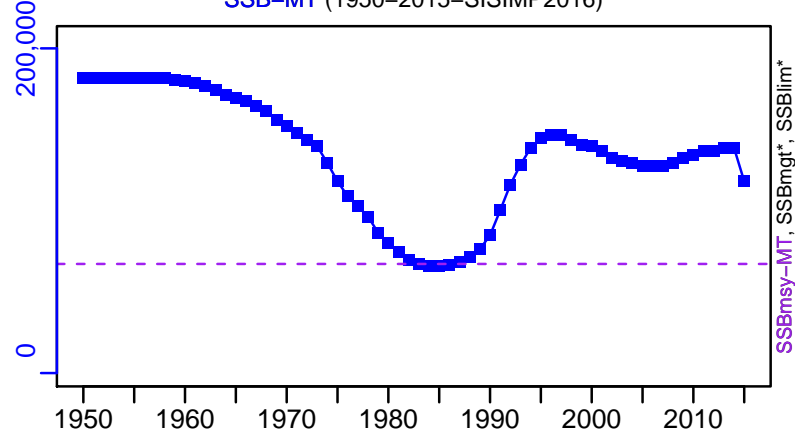
◆ Start Year ◆ End Year * No Data

Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

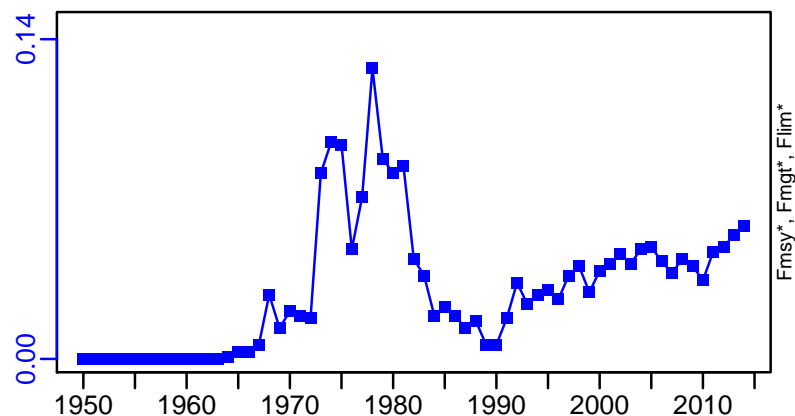
TB-MT (1950–2015–SISIMP2016)



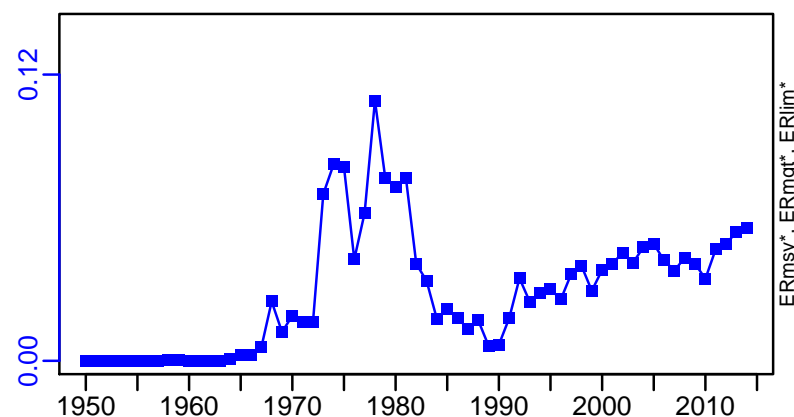
SSB-MT (1950–2015–SISIMP2016)



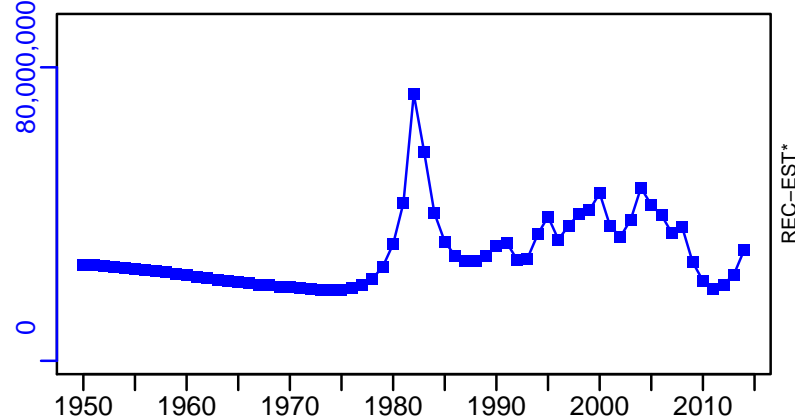
F-1/yr (1950–2015–SISIMP2016)



ER-calc-ratio (1950–2015–SISIMP2016)



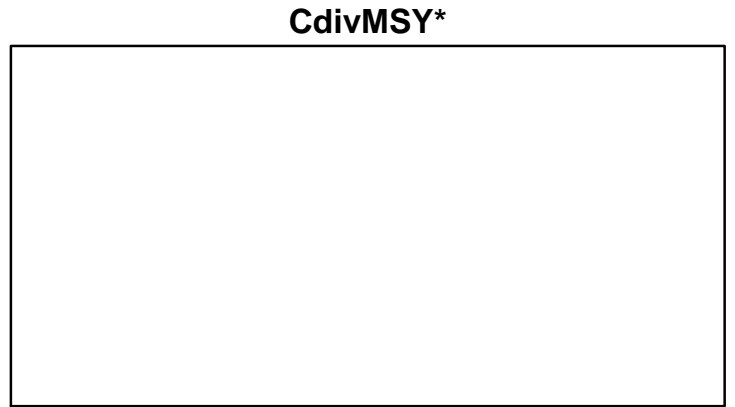
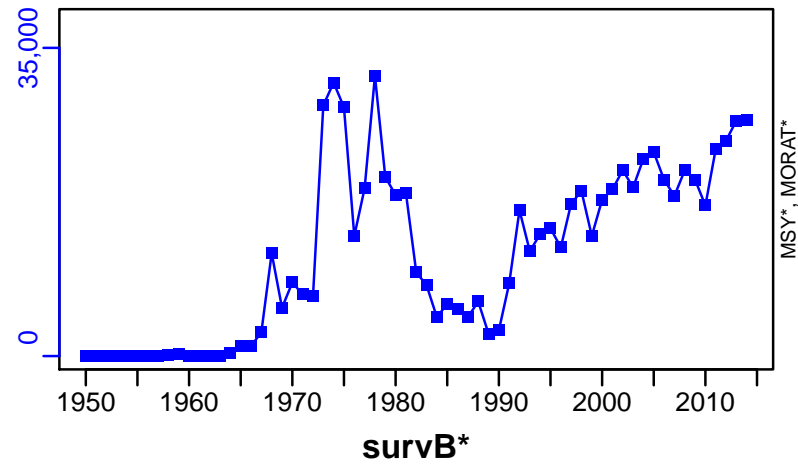
R-E00 (1950–2015–SISIMP2016)



Alaska skate Bering Sea and Aleutian Islands [ALSKABSAI]

TC-MT, TL*, RecC* (1950-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

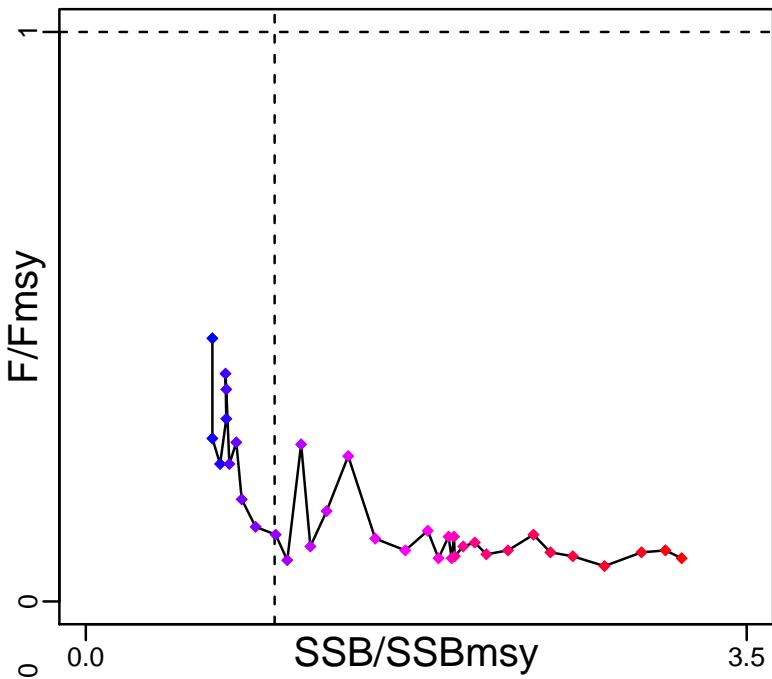
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDBSAI-1976-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	194,266
Fmsy	Fmsy-pr-1/yr	2010	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.29
ERlim	-	-	-

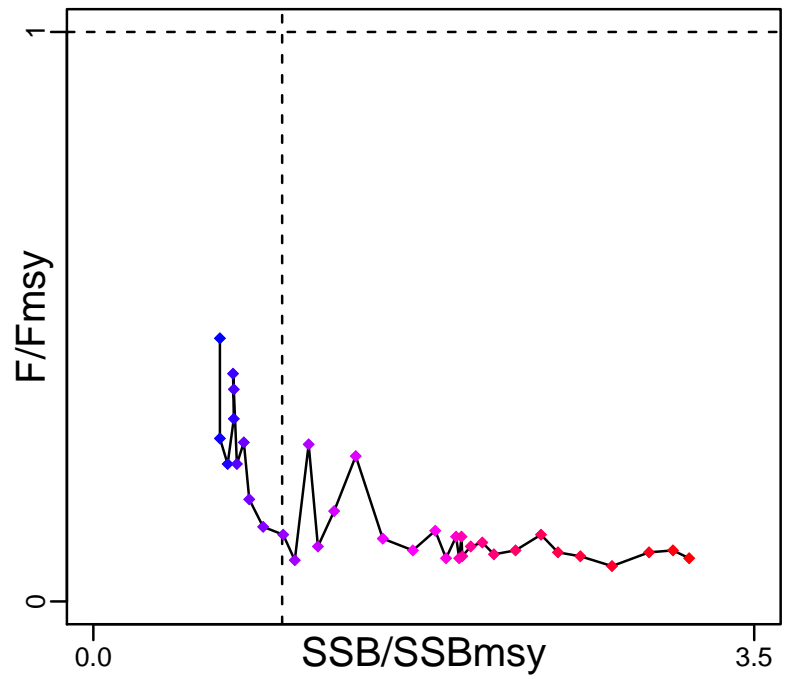
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	908,000	Both	1+
SSB	SSB-MT	2015	534,000	Females	7+
TN	-	-	-	-	-
R	R-E00	2015	8.18×10^8	-	1
F	F-1/yr	2015	0.026	-	-
ER	ER-calc-ratio	2015	0.022	-	-
TC	TC-MT	2015	19,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.749		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.076		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

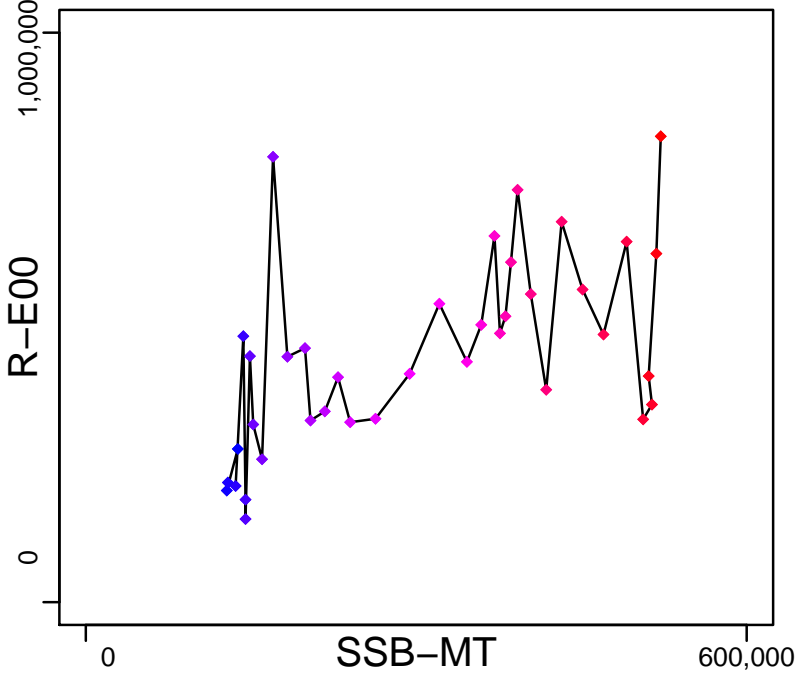
Kobe MSYpref (1970–2010–STACHURA)



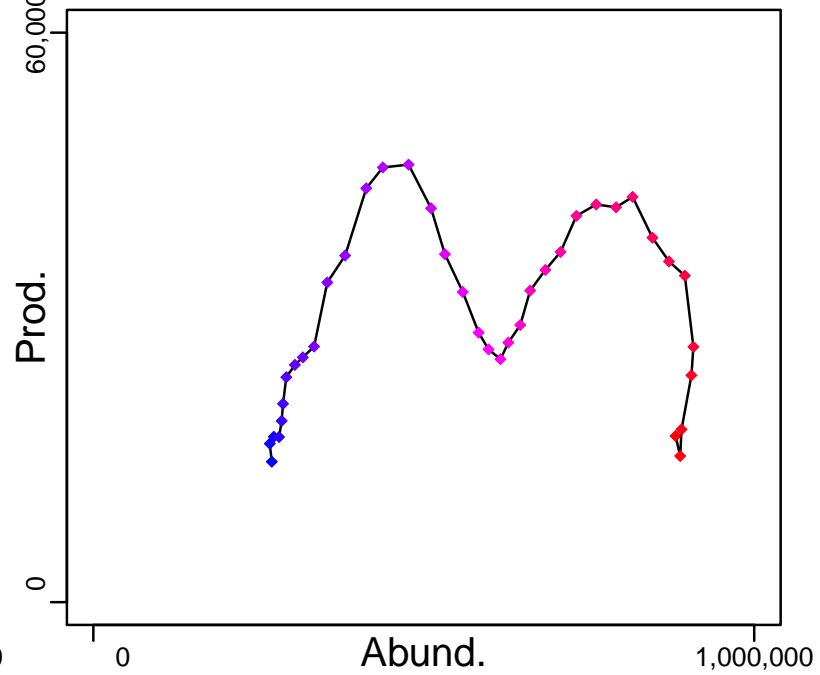
Kobe MGTpref (1970–2010–STACHURA)



Spawner Recruit (1976–2015–SISIMP2016)



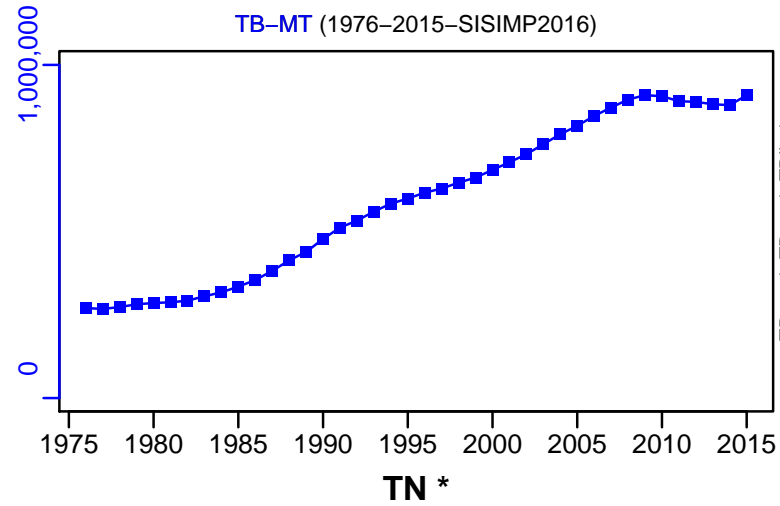
Production (1976–2015–SISIMP2016)



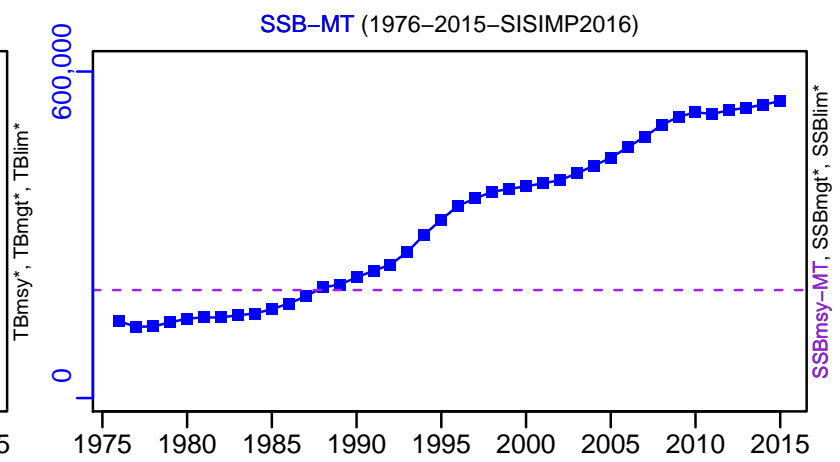
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

TB-MT (1976–2015–SISIMP2016)



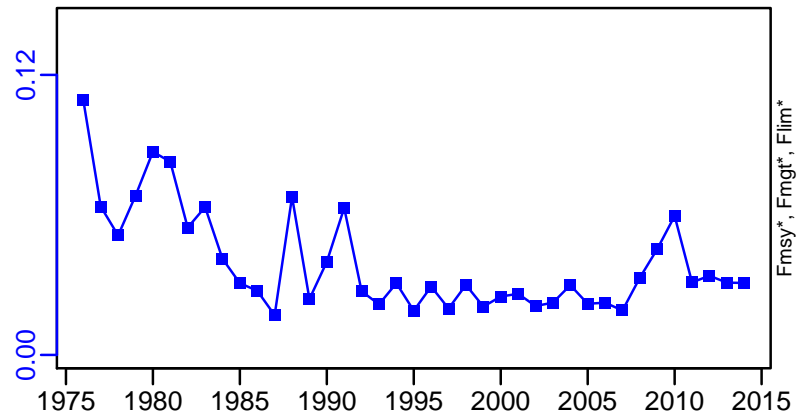
SSB-MT (1976–2015–SISIMP2016)



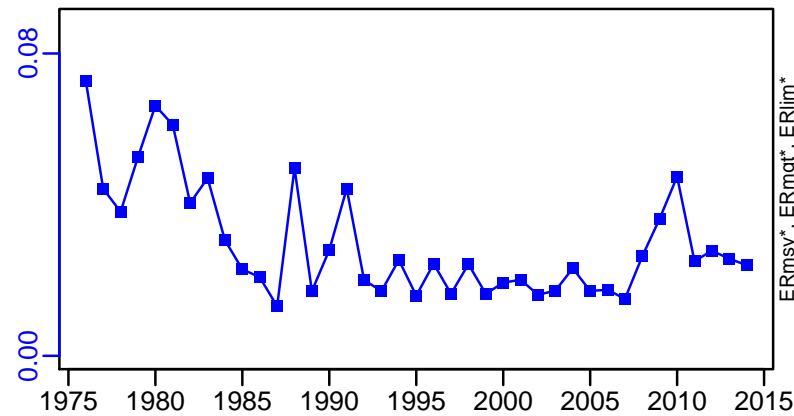
TN *



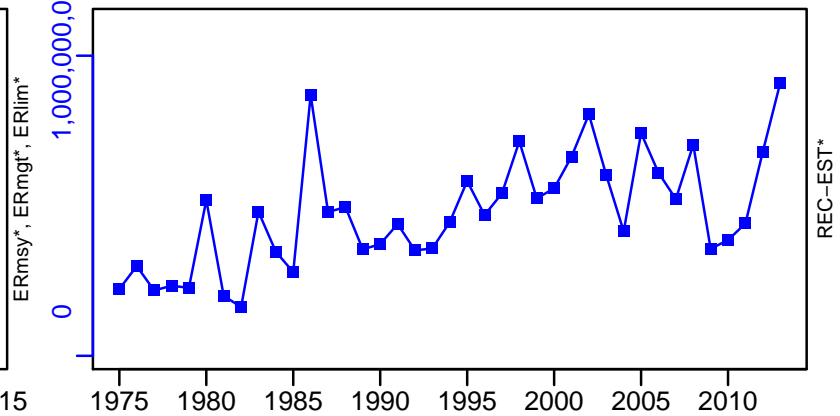
F-1/yr (1976–2015–SISIMP2016)



ER-calc-ratio (1976–2015–SISIMP2016)



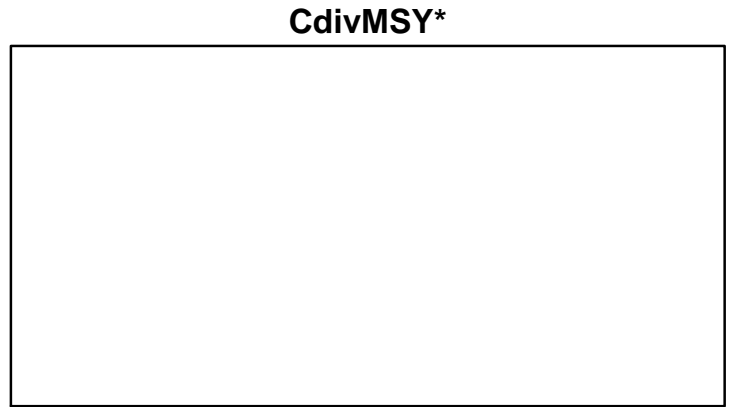
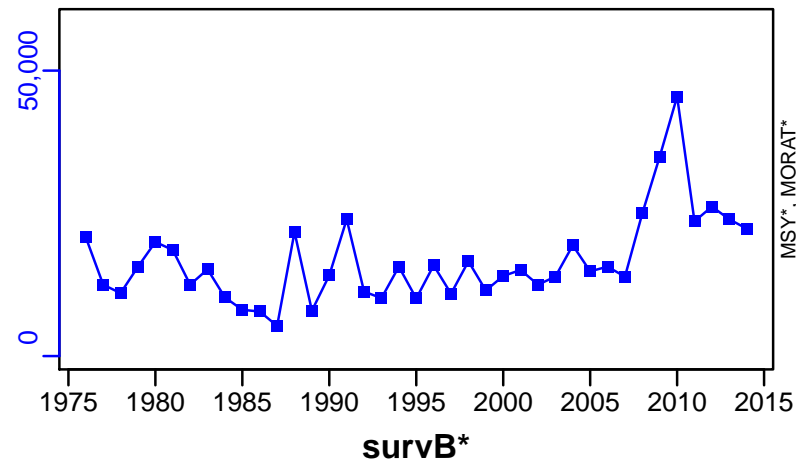
R-E00 (1976–2015–SISIMP2016)



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

TC-MT, TL*, RecC* (1976-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

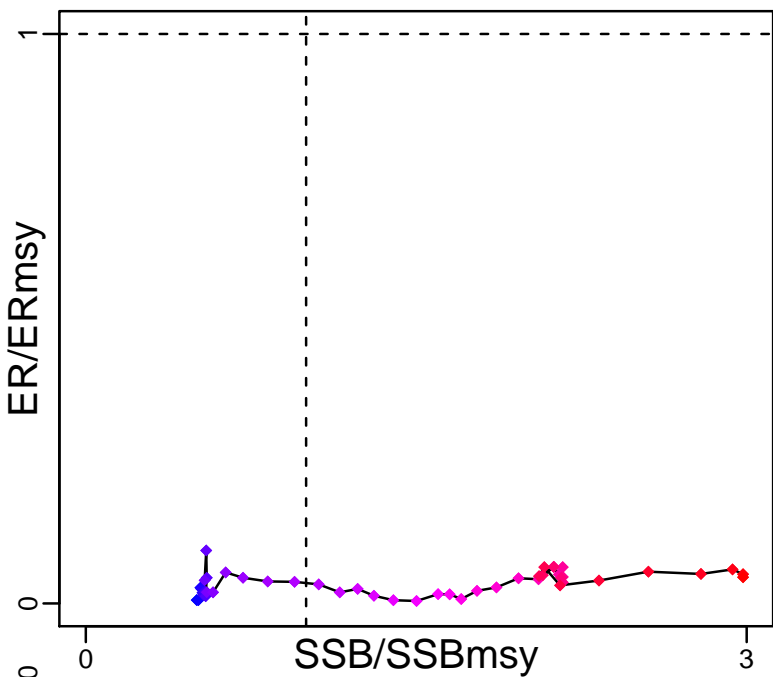
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDGA-1961-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	1,125,923
SSBmsy	SSBmsy-MT	2015	347,295
Fmsy	Fmsy-pr-1/yr	2010	0.219
ERmsy	ERmsy-ratio	2010	0.226
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	254,271
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

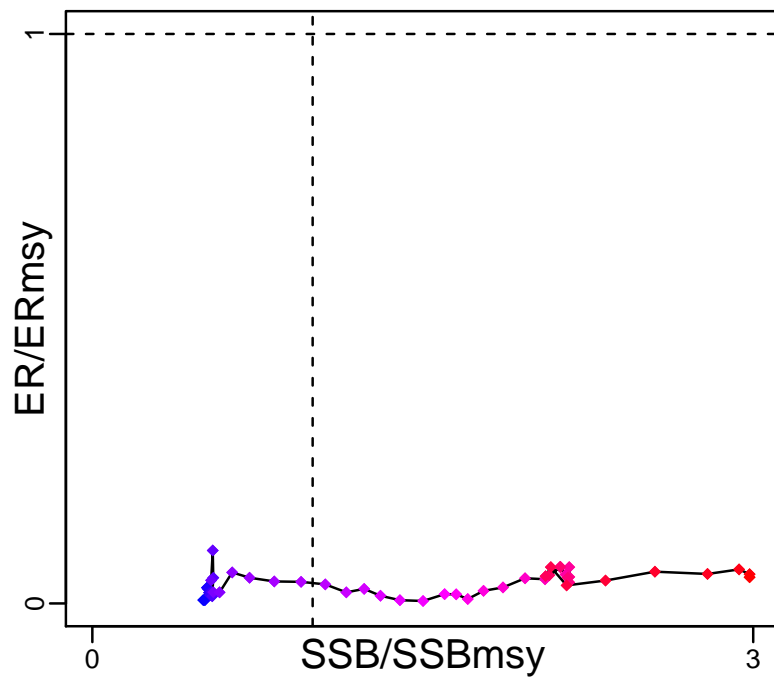
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,090,000	-	1+
SSB	SSB-MT	2015	1,130,000	Females	-
TN	-	-	-	-	-
R	R-E00	2015	4.36×10^8	-	1
F	F-1/yr	2015	0.011	-	-
ER	ER-calc-ratio	2015	0.018	-	-
TC	TC-MT	2015	36,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.901		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	3.254		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.079		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.046		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

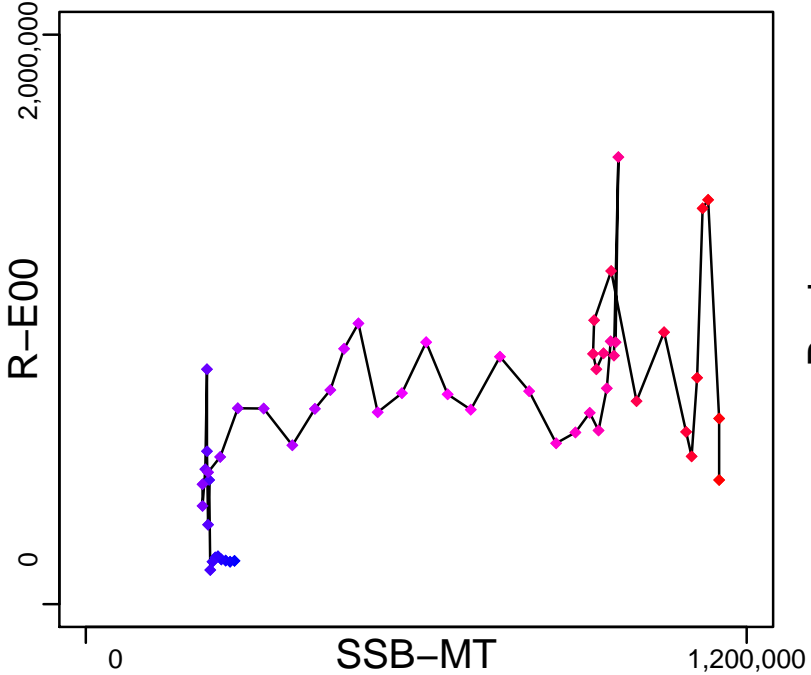
Kobe MSYpref (1958–2010–STACHURA)



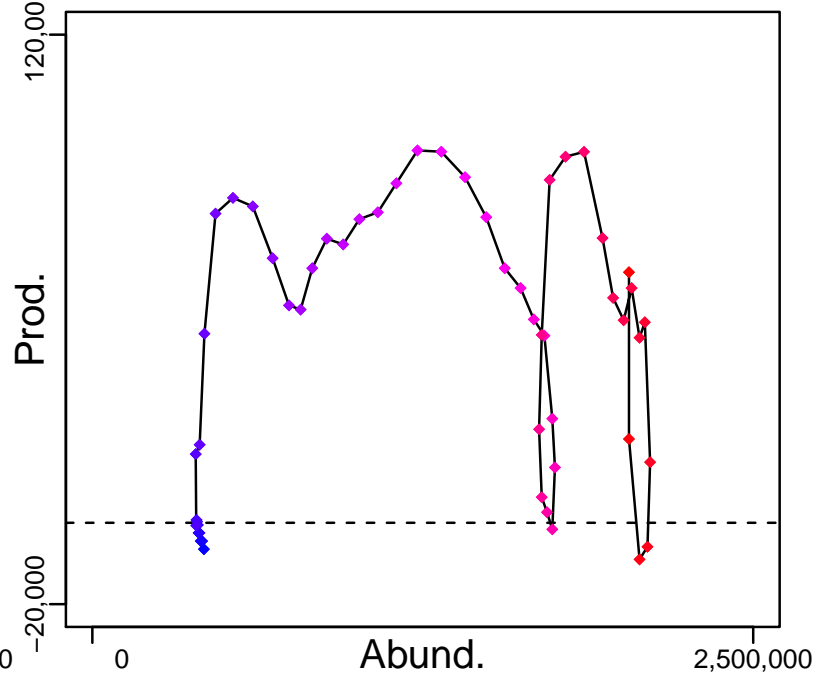
Kobe MGTpref (1958–2010–STACHURA)



Spawner Recruit (1961–2015–SISIMP2016)

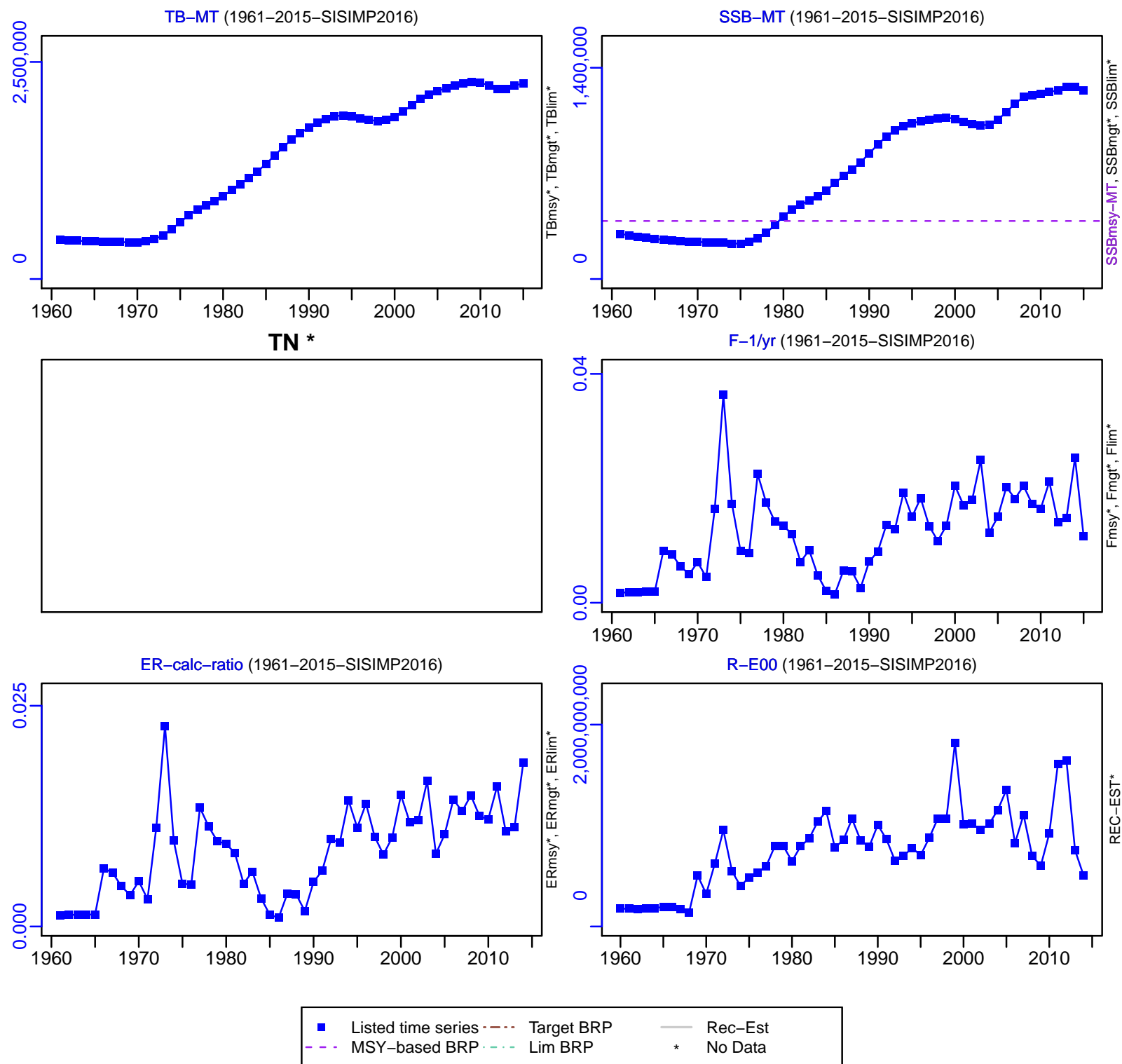


Production (1961–2015–SISIMP2016)



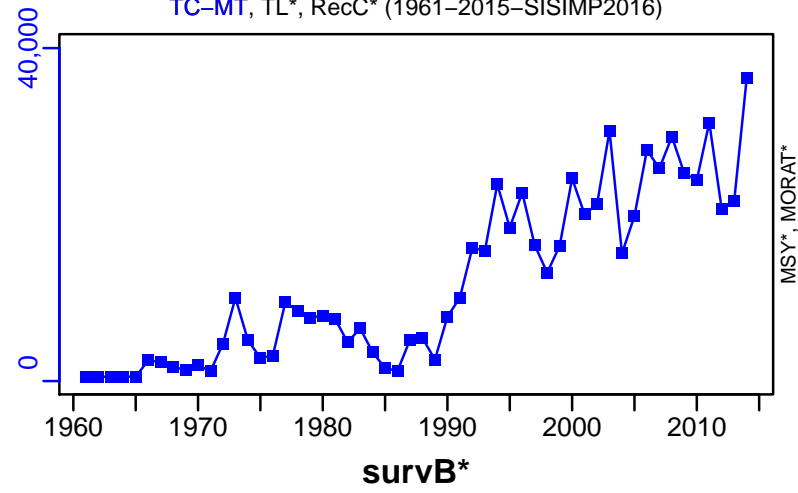
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

TC-MT, TL*, RecC* (1961-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



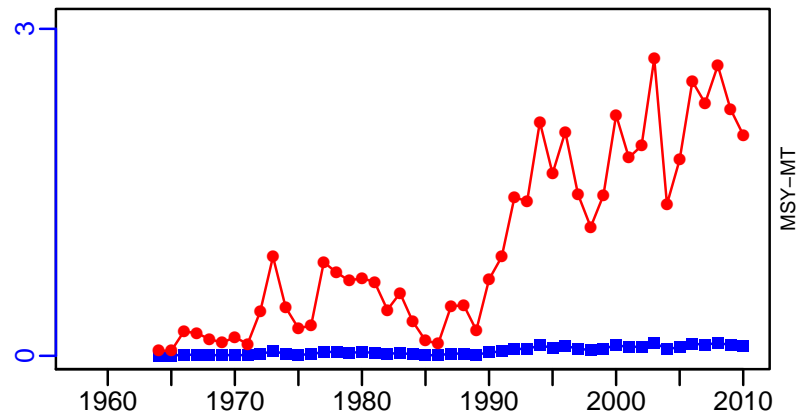
CPUE*



EFFORT*



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



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

Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

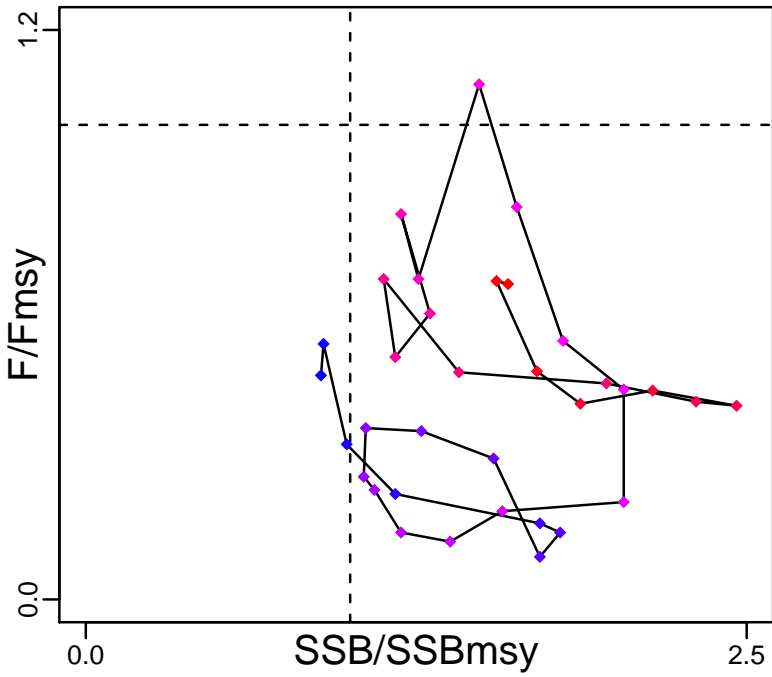
Metadata	
Scientific Name	Pleurogrammus monopterygius
Current Assess ID	AFSC-ATKABSAI-1977-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	118,697
Fmsy	Fmsy-pr-1/yr	2011	0.468
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

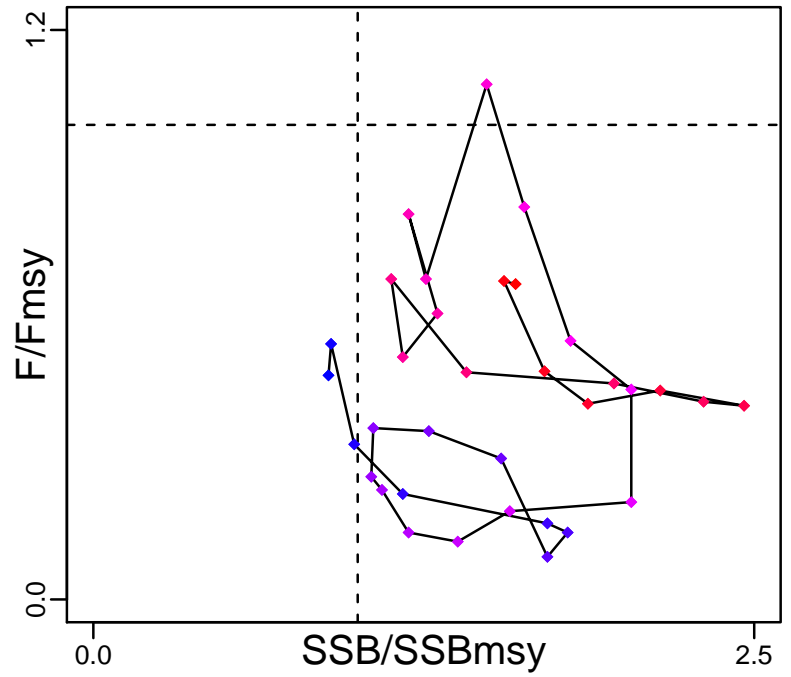
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	589,000	-	1+
SSB	SSB-MT	2015	177,000	Females	3.6+
TN	-	-	-	-	-
R	R-E00	2015	507,000	-	1
F	F-1/yr	2015	0.163	-	-
ER	ER-calc-ratio	2015	0.053	-	-
TC	TC-MT	2015	30,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.491		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.665		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

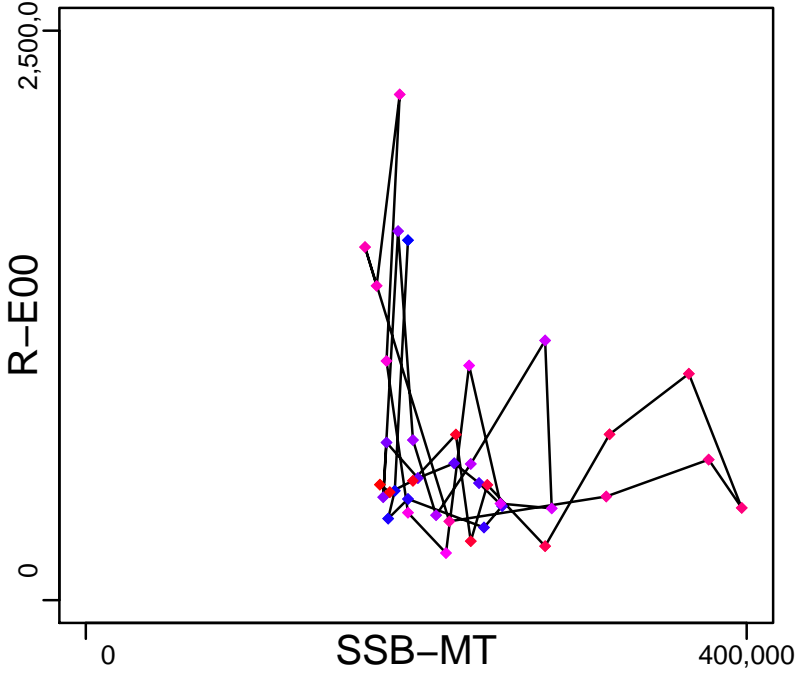
Kobe MSYpref (1976–2011–STACHURA)



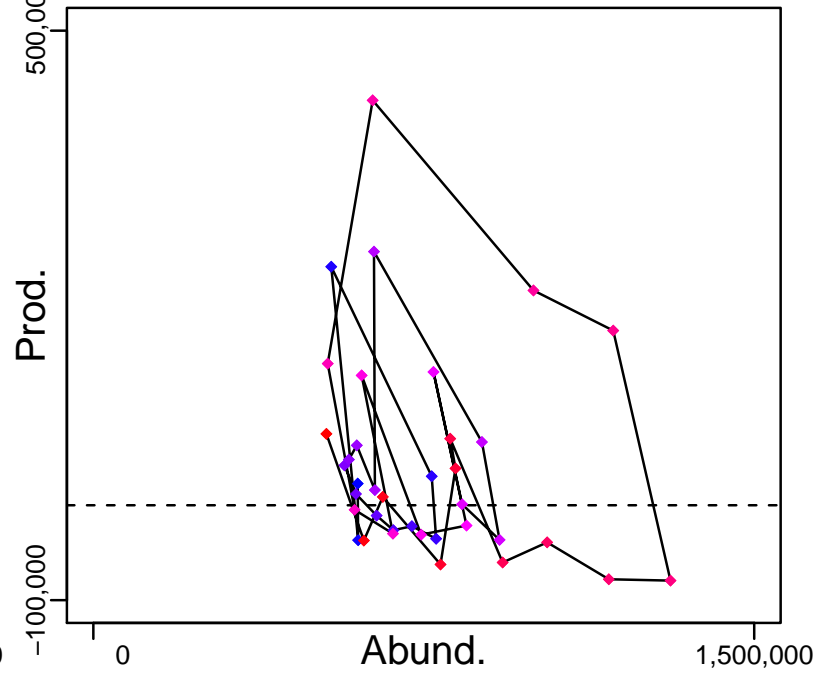
Kobe MGTpref (1976–2011–STACHURA)



Spawner Recruit (1977–2015–SISIMP2016)

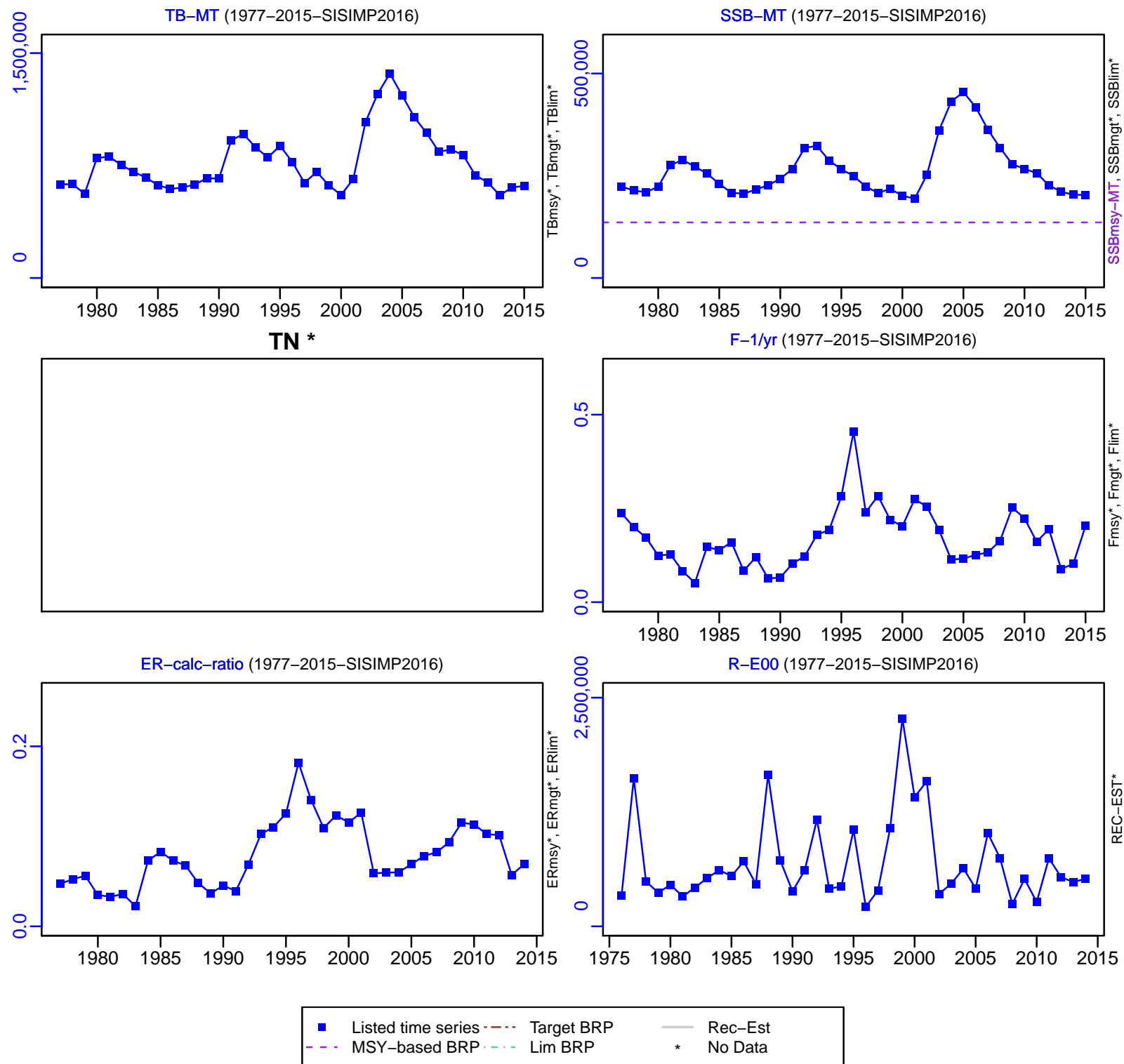


Production (1977–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

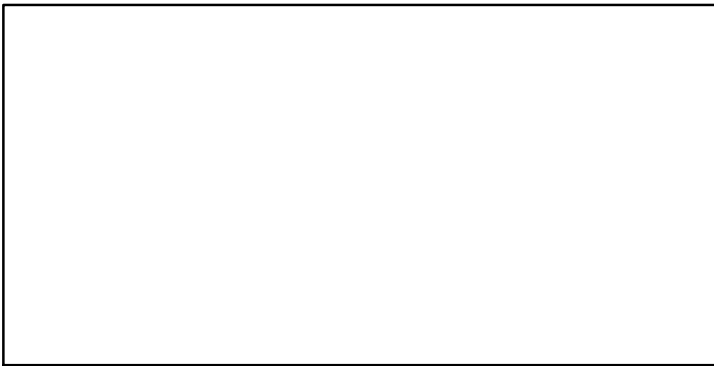
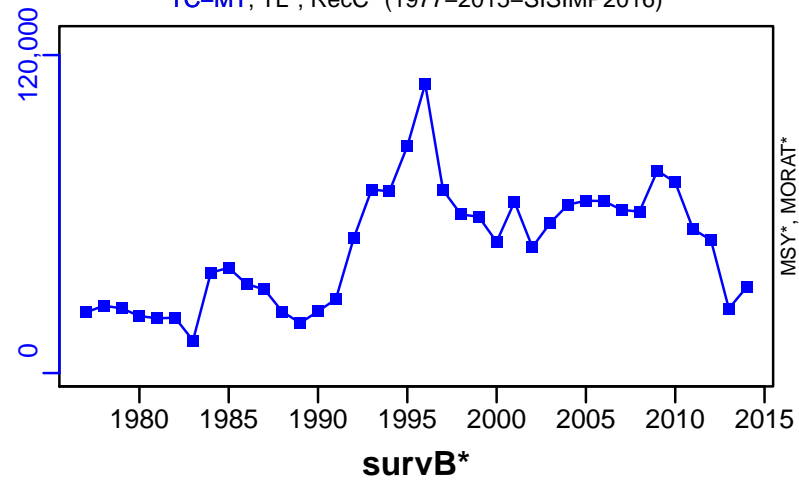
Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]



Atka mackerel Bering Sea and Aleutian Islands [ATKABSAI]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Atka mackerel Gulf of Alaska [ATKAGA]

Metadata	
Scientific Name	Pleurogrammus monopterygius
Current Assess ID	AFSC-ATKAGA-1977-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	2014	1040		
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

--- MSY-based BRP

--- Target BRP

--- Lim BRP

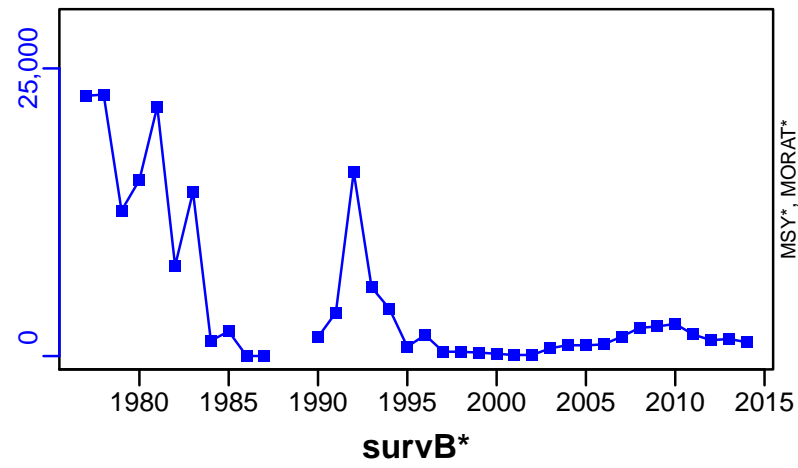
— Rec-Est

* No Data

Atka mackerel Gulf of Alaska [ATKAGA]

TC-MT, TL*, RecC* (1977-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

Blue king crab Pribilof Islands [BKINGCRABPI]

Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABPI-1960-2008-JENSEN
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008

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	2008	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*



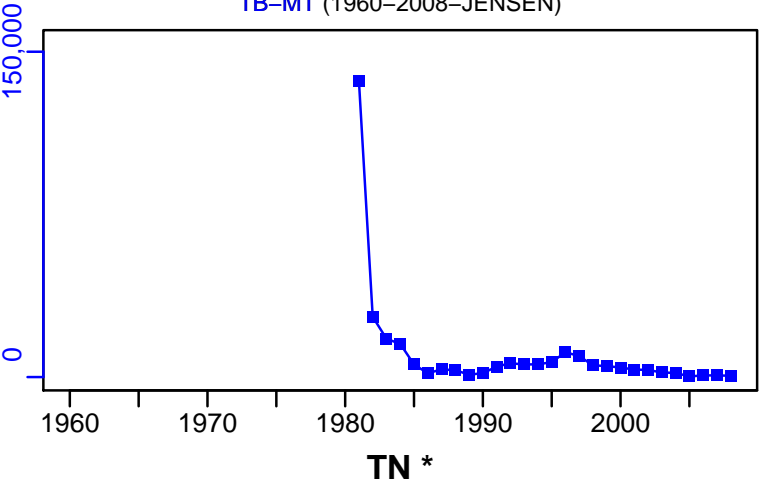
Production*



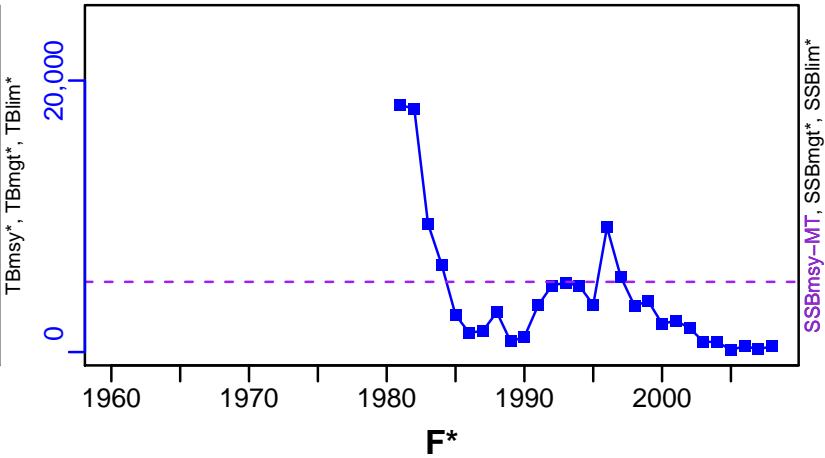
◆ Start Year ◆ End Year * No Data

Blue king crab Pribilof Islands [BKINGCRABPI]

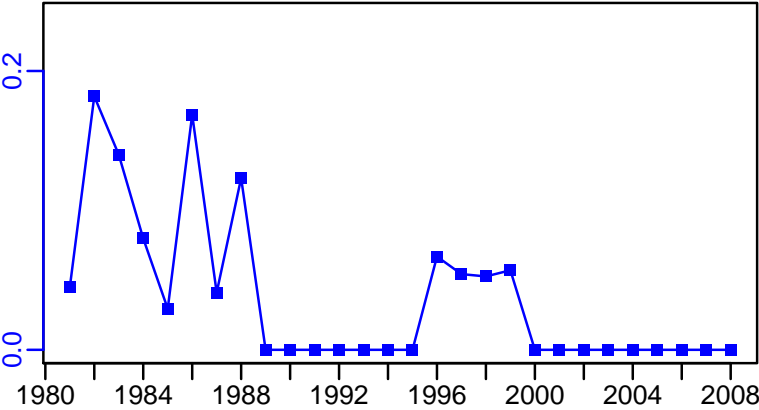
TB-MT (1960-2008-JENSEN)



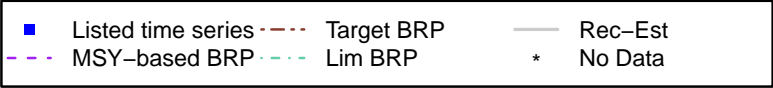
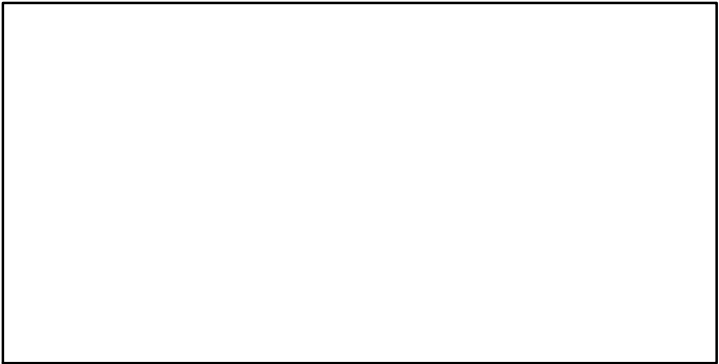
SSB-MT (1960-2008-JENSEN)



ER-ratio (1960-2008-JENSEN)

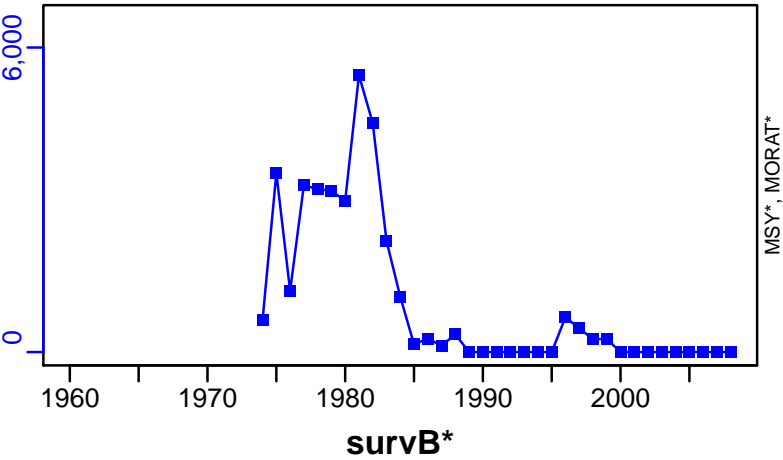


Recruits*



Blue king crab Pribilof Islands [BKINGCRABPI]

TC-MT, TL*, RecC* (1960-2008-JENSEN)



TAC*, Cpair*, Cadv*



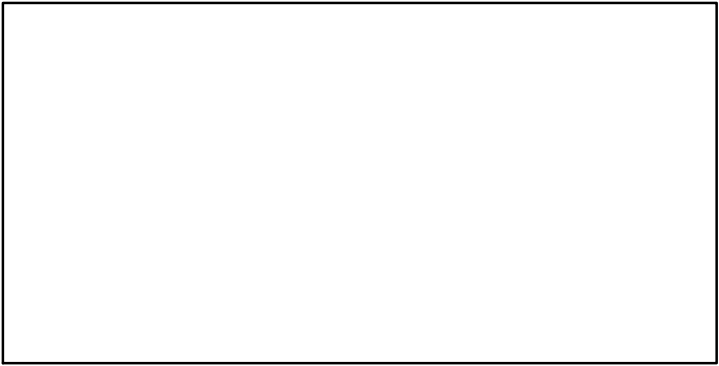
CPUE*



EFFORT*



CdivMSY*



Blue king crab Saint Matthews Island [BKINGCRABSMI]

Metadata	
Scientific Name	Paralithodes platypus
Current Assess ID	AFSC-BKINGCRABSMI-1960-2008-JENSEN
Area	Saint Matthews Island
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	3351
Fmsy	Fmsy-pr-1/yr	2008	0.18
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	2008	4870	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2008	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.453		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



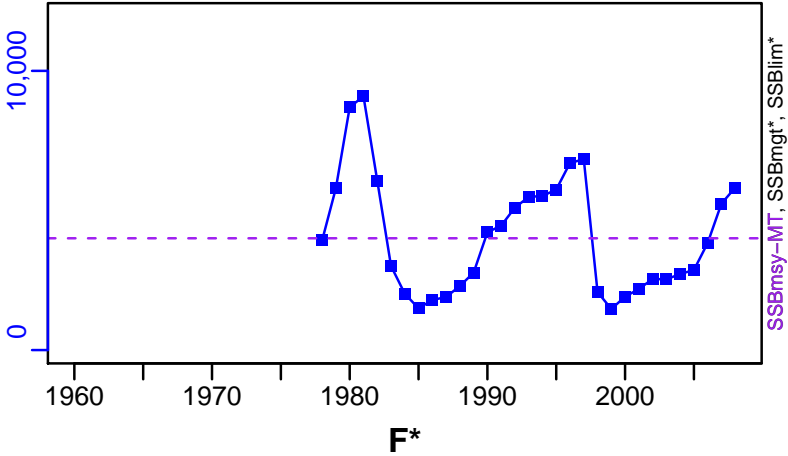
◆ Start Year ◆ End Year * No Data

Blue king crab Saint Matthews Island [BKINGCRABSMI]

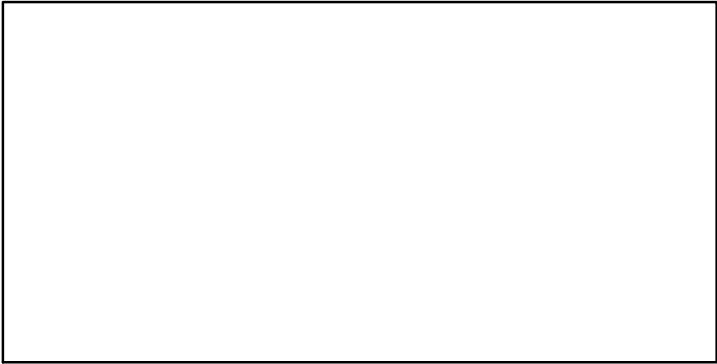
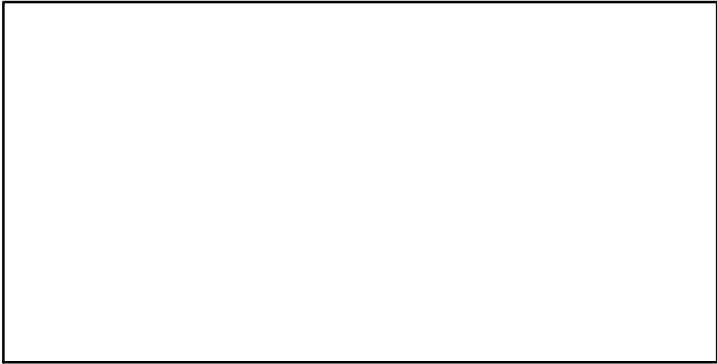
TB*



SSB-MT (1960-2008-JENSEN)



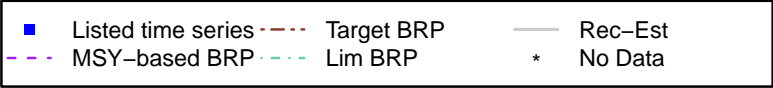
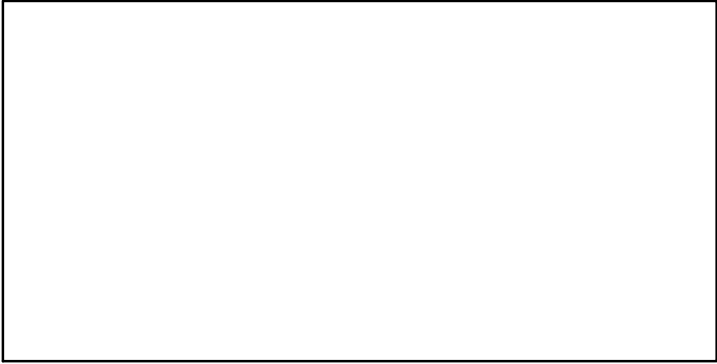
TN *



ER*

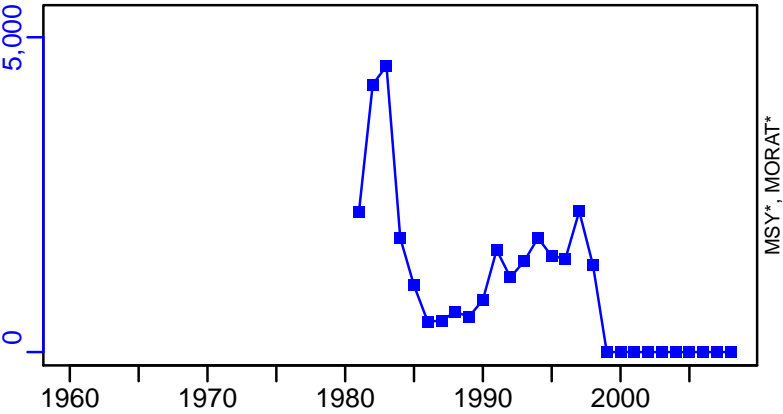


Recruits*



Blue king crab Saint Matthews Island [BKINGCRABSMI]

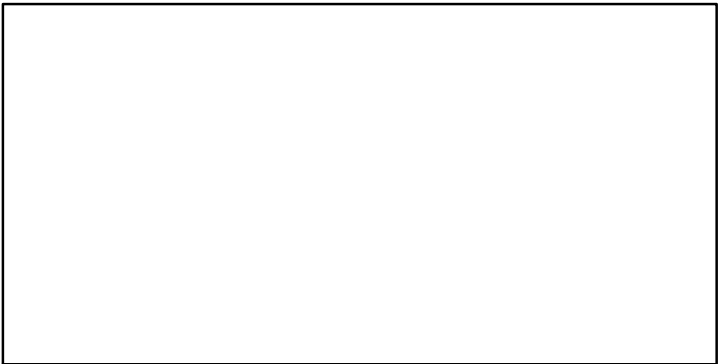
TC-MT, TL*, RecC* (1960-2008-JENSEN)



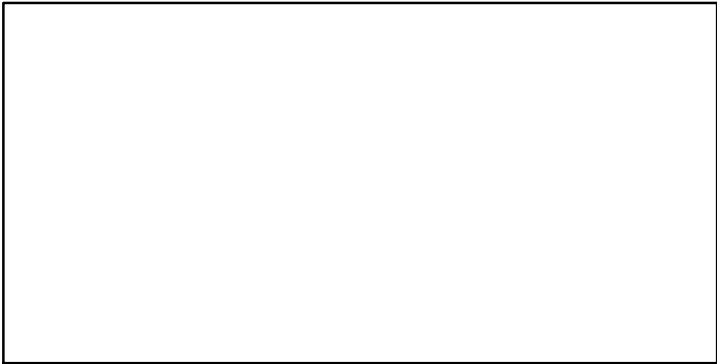
TAC*, Cpair*, Cadv*



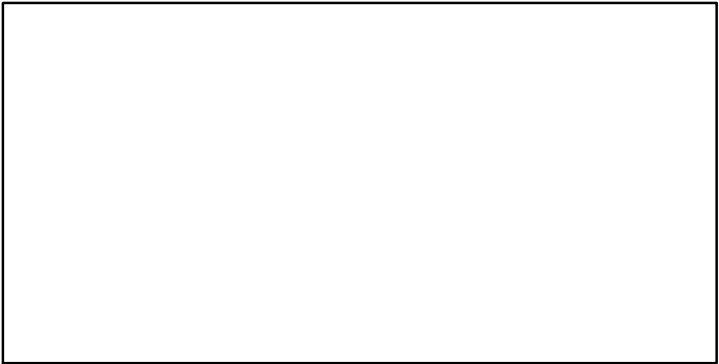
CPUE*



EFFORT*



CdivMSY*



Dover sole Gulf of Alaska [DSOLEGA]

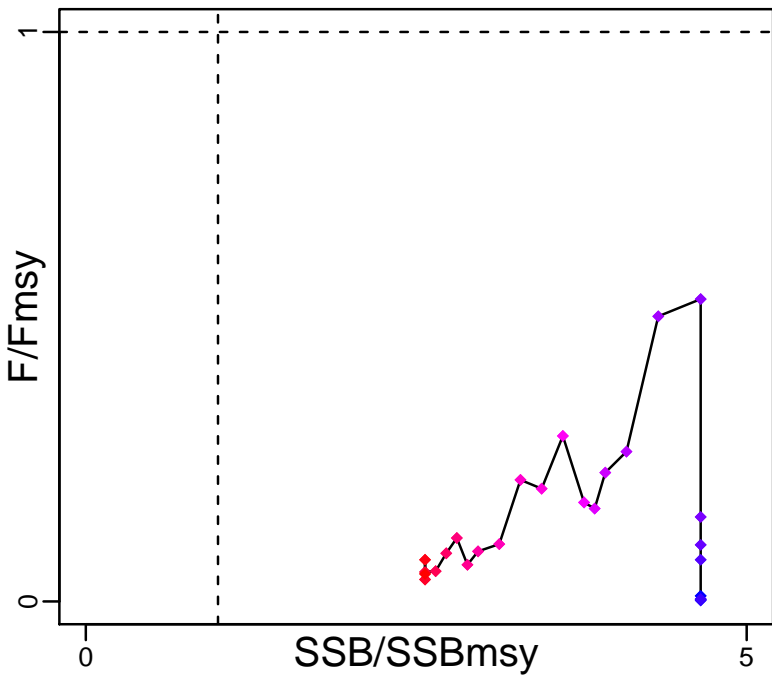
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	AFSC-DSOLEGA-1978-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	19,855
Fmsy	Fmsy-pr-1/yr	2009	0.149
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2009	0.085
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

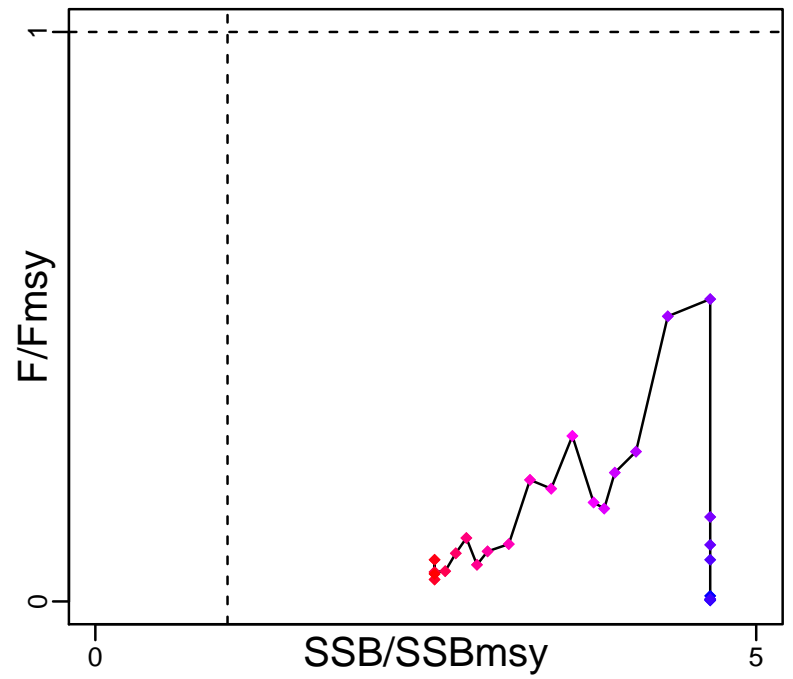
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	141,000	-	0+
SSB	SSB-MT	2015	48,900	Females	12.47+
TN	-	-	-	-	-
R	R-E00	2015	19,500,000	-	0
F	F-1/yr	2015	0.003	-	-
ER	ER-calc-ratio	2015	0.003	-	-
TC	TC-MT	2015	324		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.463		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2009	0.048		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dover sole Gulf of Alaska [DSOLEGA]

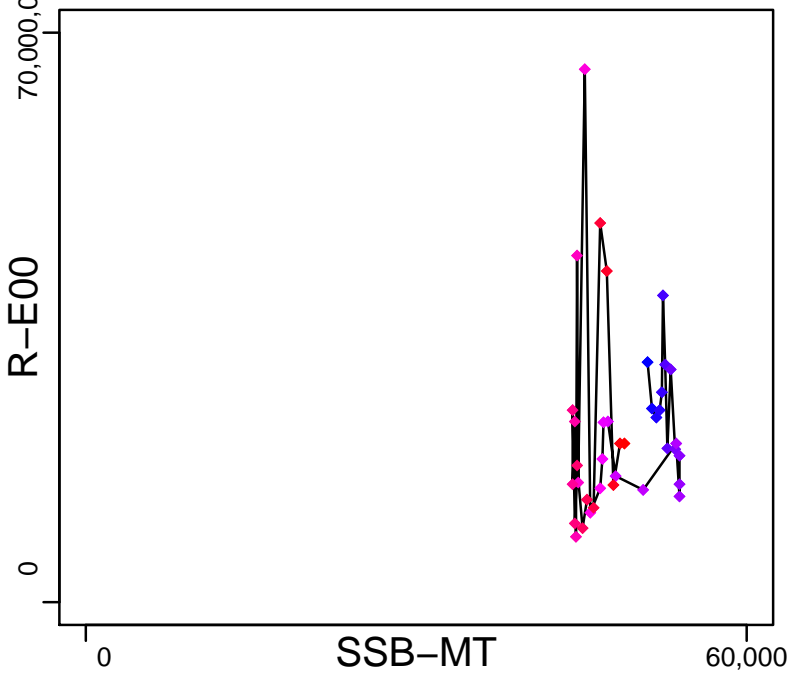
Kobe MSYpref (1978–2009–STACHURA)



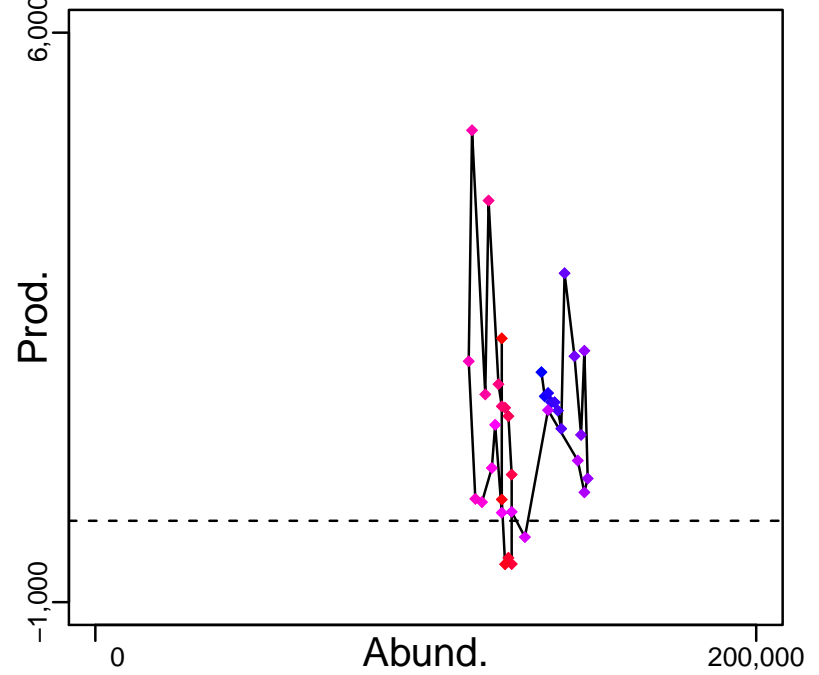
Kobe MGTpref (1978–2009–STACHURA)



Spawner Recruit (1978–2015–SISIMP2016)



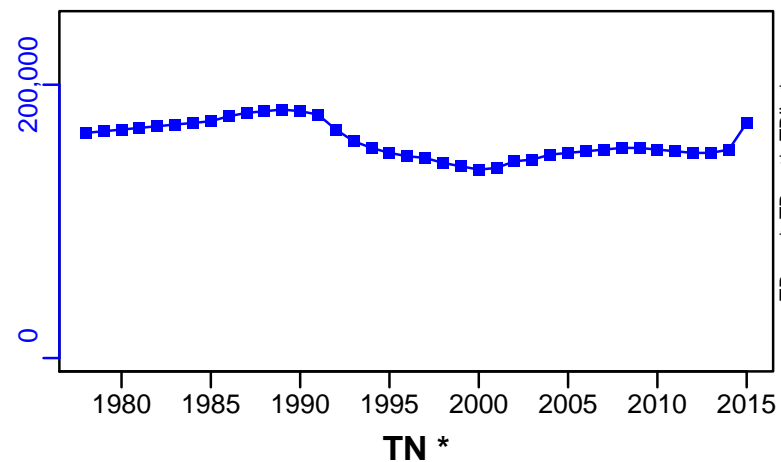
Production (1978–2015–SISIMP2016)



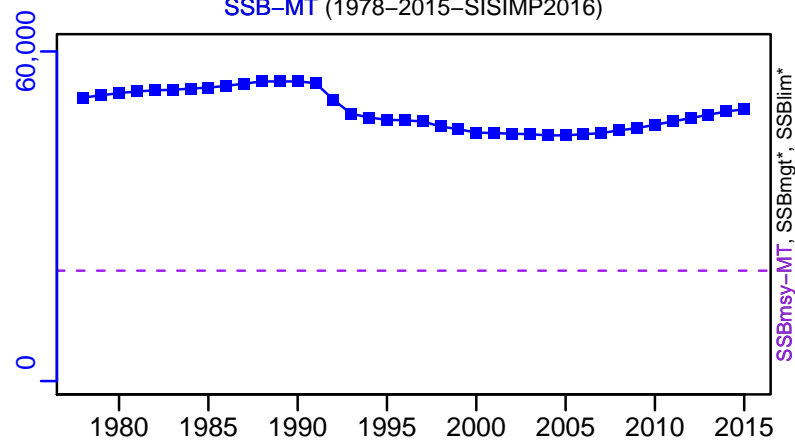
◆ Start Year ◆ End Year * No Data

Dover sole Gulf of Alaska [DSOLEGA]

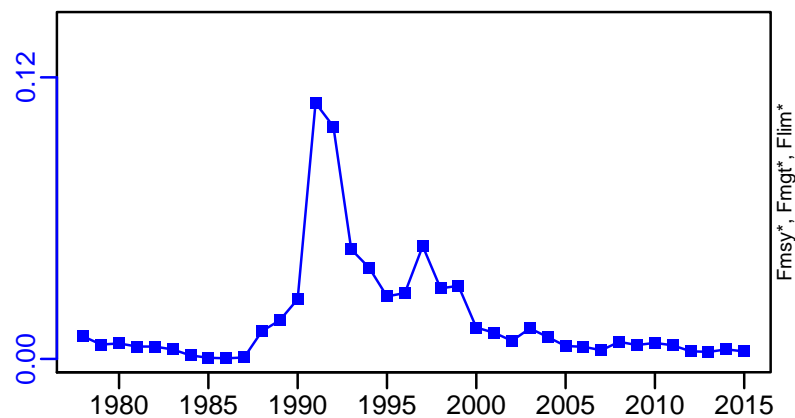
TB-MT (1978–2015–SISIMP2016)



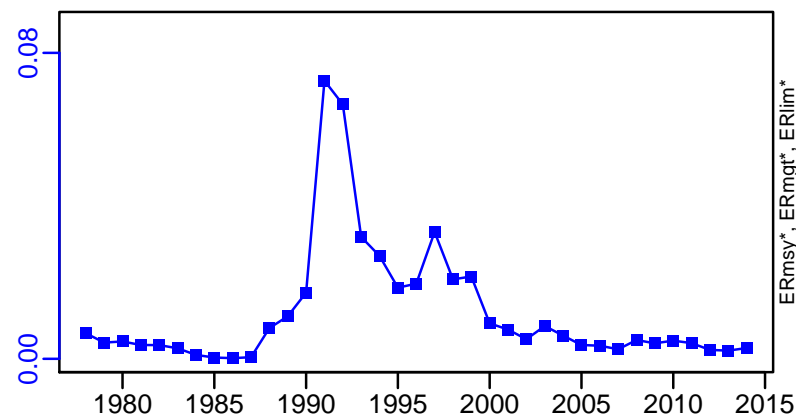
SSB-MT (1978–2015–SISIMP2016)



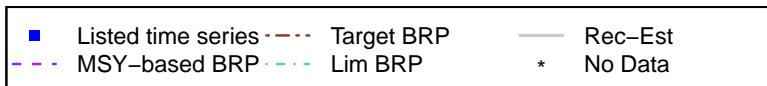
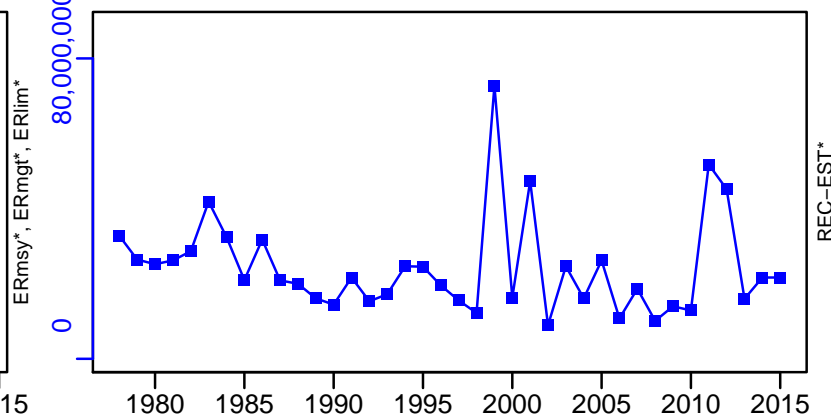
F-1/yr (1978–2015–SISIMP2016)



ER-calc-ratio (1978–2015–SISIMP2016)



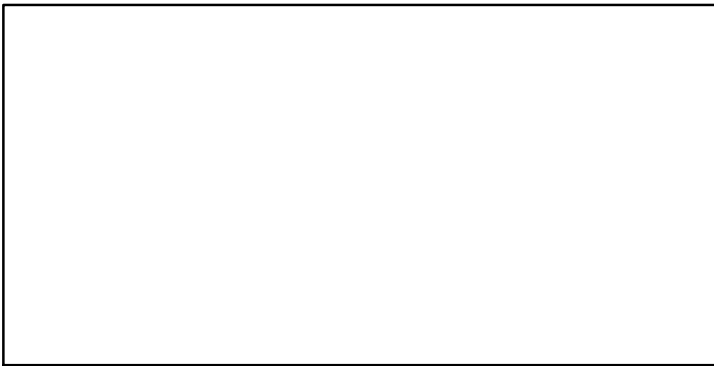
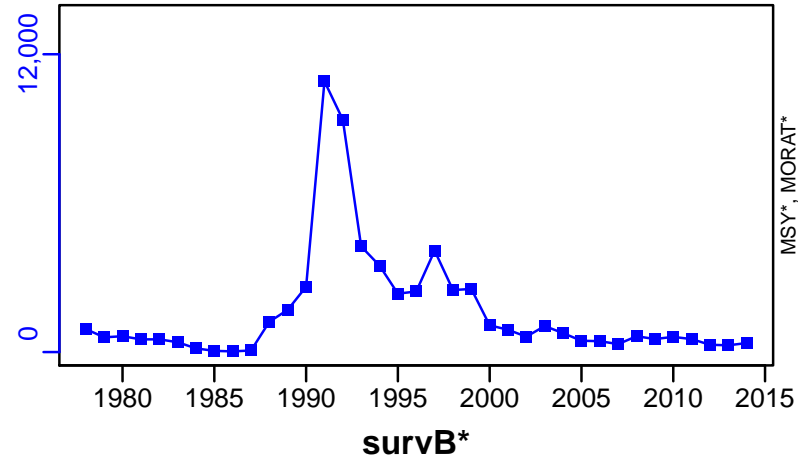
R-E00 (1978–2015–SISIMP2016)



Dover sole Gulf of Alaska [DSOLEGA]

TC-MT, TL*, RecC* (1978-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Dusky rockfish Gulf of Alaska [DUSROCKGA]

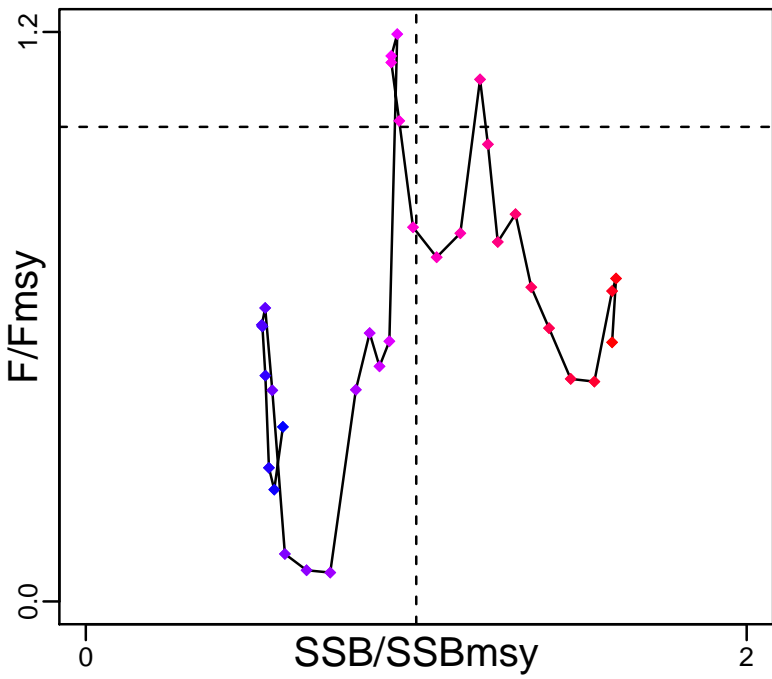
Metadata	
Scientific Name	Sebastes variabilis
Current Assess ID	AFSC-DUSROCKGA-1977-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	17,244
Fmsy	Fmsy-1/yr	2010	0.087
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.07
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

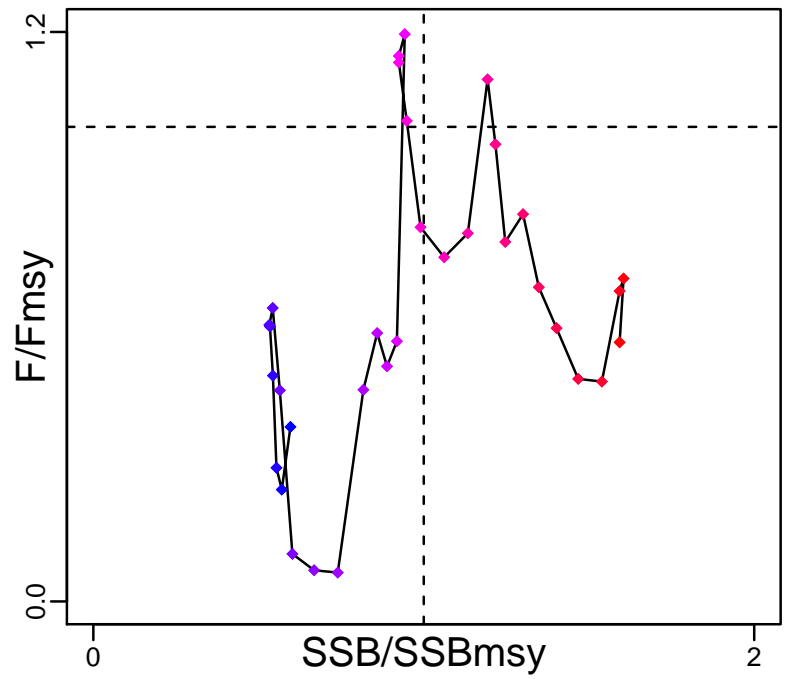
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	63,100	-	4+
SSB	SSB-MT	2015	27,700	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2,150,000	-	4
F	F-1/yr	2015	0.054	-	-
ER	ER-calc-ratio	2015	0.045	-	-
TC	TC-MT	2015	3030		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.606		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.546		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dusky rockfish Gulf of Alaska [DUSROCKGA]

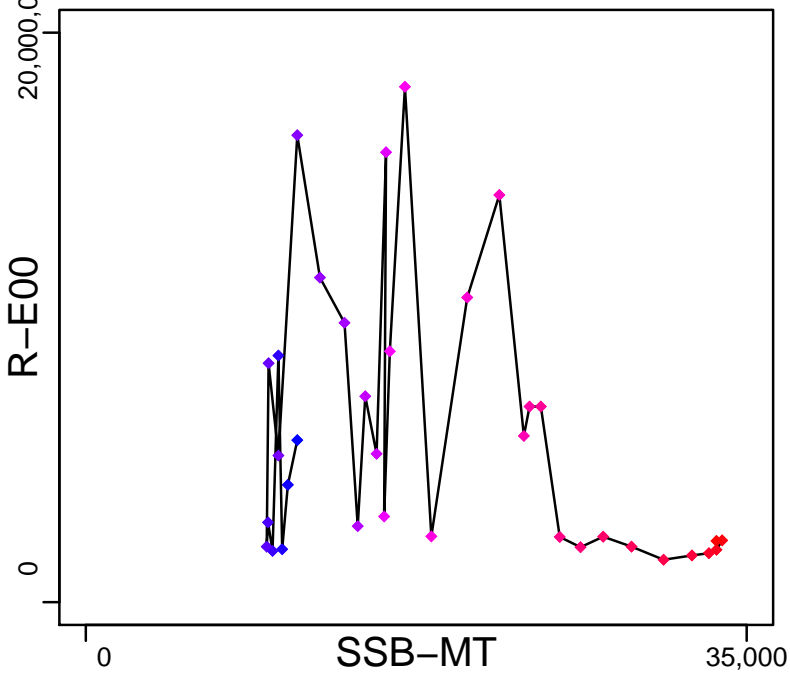
Kobe MSYpref (1973–2010–STACHURA)



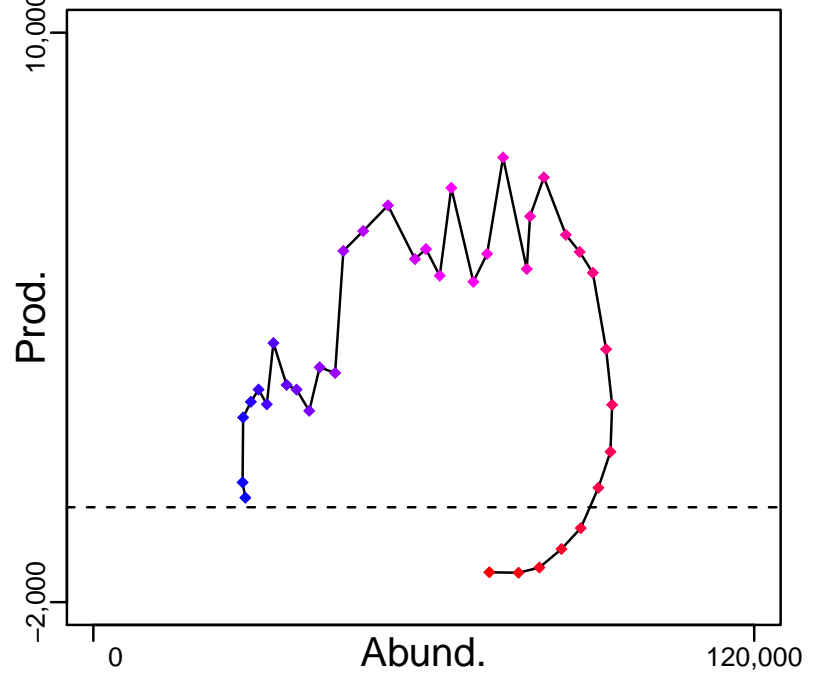
Kobe MGTpref (1973–2010–STACHURA)



Spawner Recruit (1977–2015–SISIMP2016)



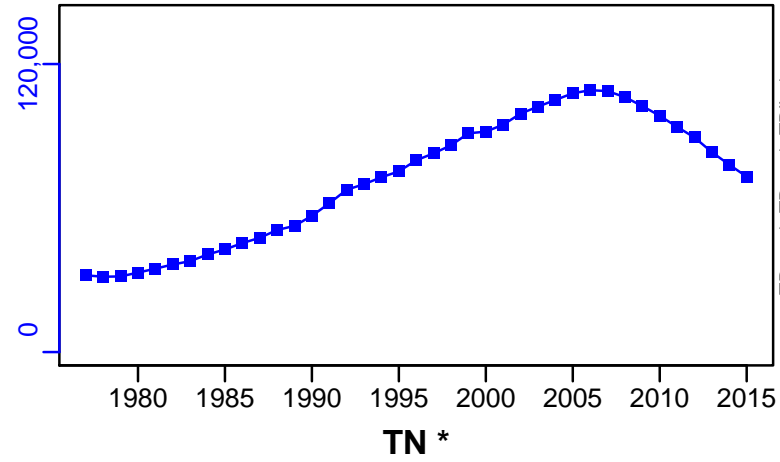
Production (1977–2015–SISIMP2016)



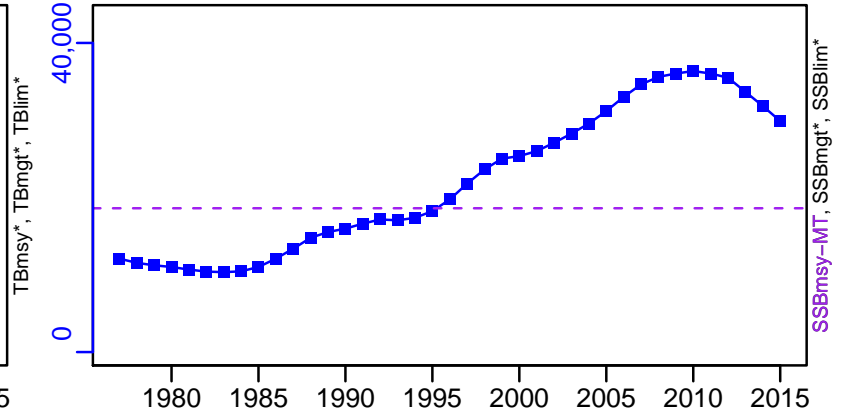
◆ Start Year ◆ End Year * No Data

Dusky rockfish Gulf of Alaska [DUSROCKGA]

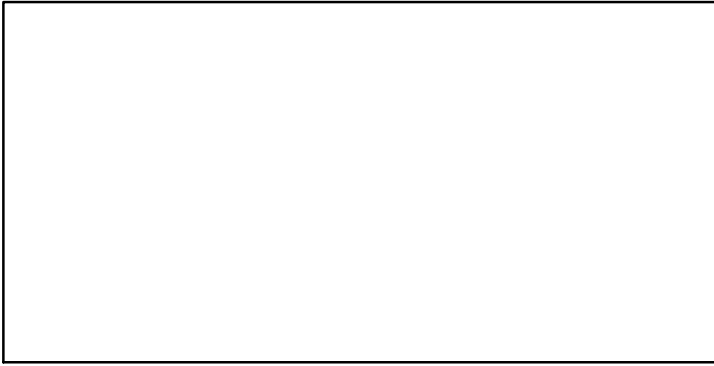
TB-MT (1977-2015-SISIMP2016)



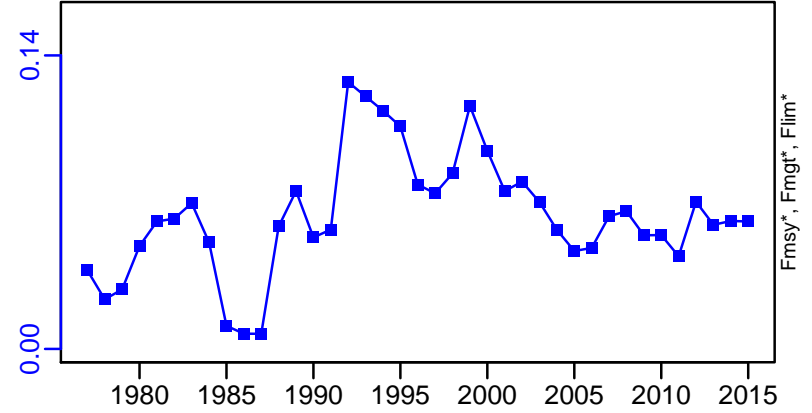
SSB-MT (1977-2015-SISIMP2016)



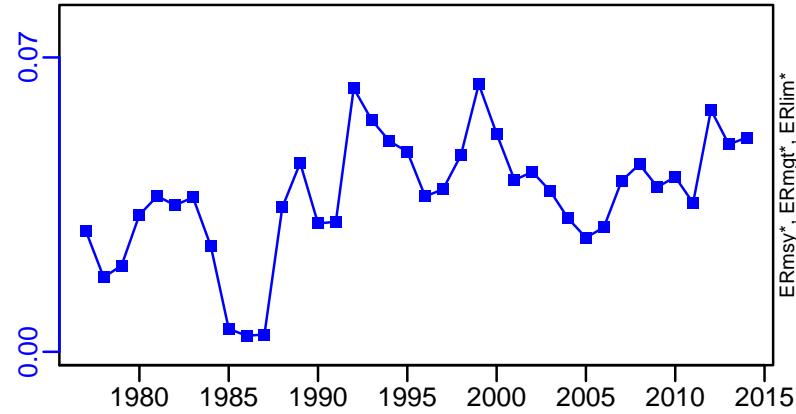
TN *



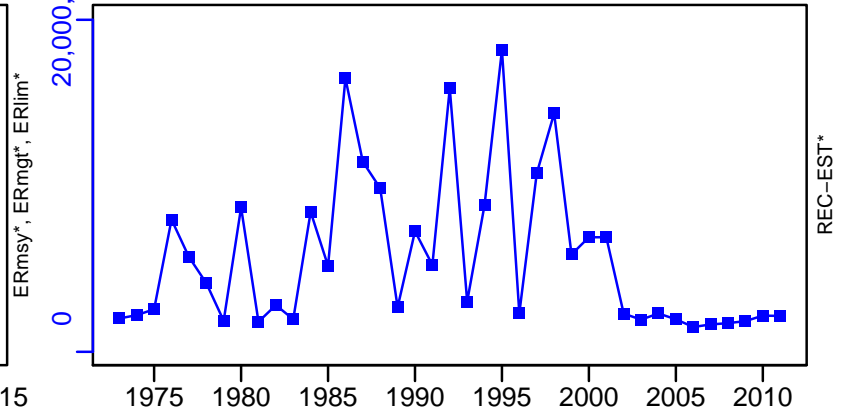
F-1/yr (1977-2015-SISIMP2016)



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



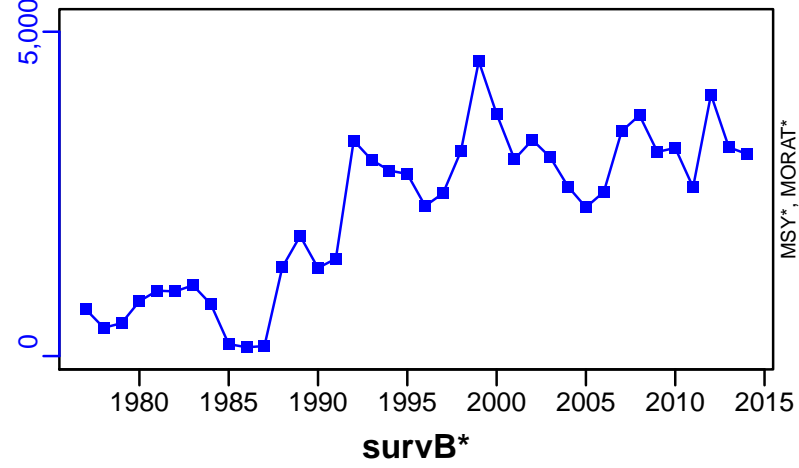
R-E00 (1977-2015-SISIMP2016)



Dusky rockfish Gulf of Alaska [DUSROCKGA]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)

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]

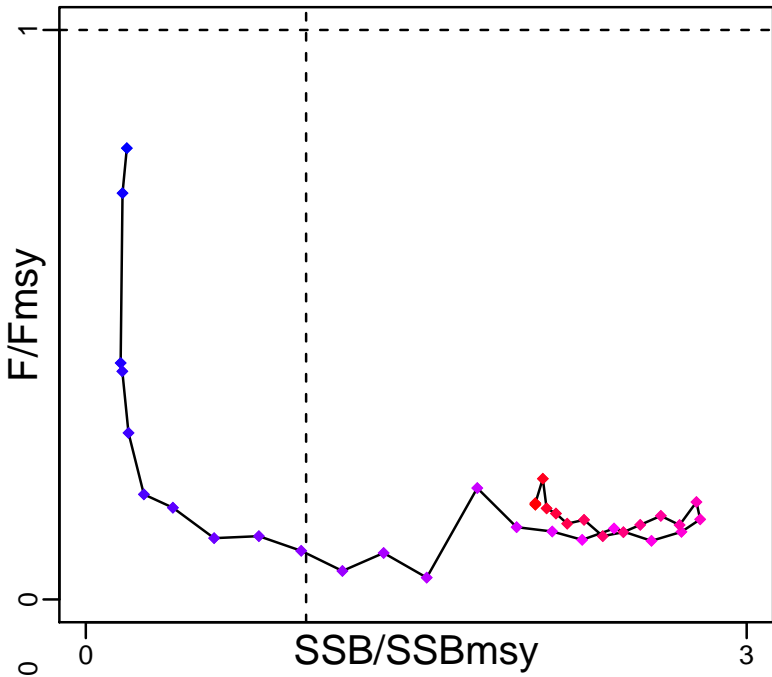
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEBSAI-1977-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	111,722
Fmsy	Fmsy-pr-1/yr	2010	0.342
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	-	-	-
ERlim	-	-	-

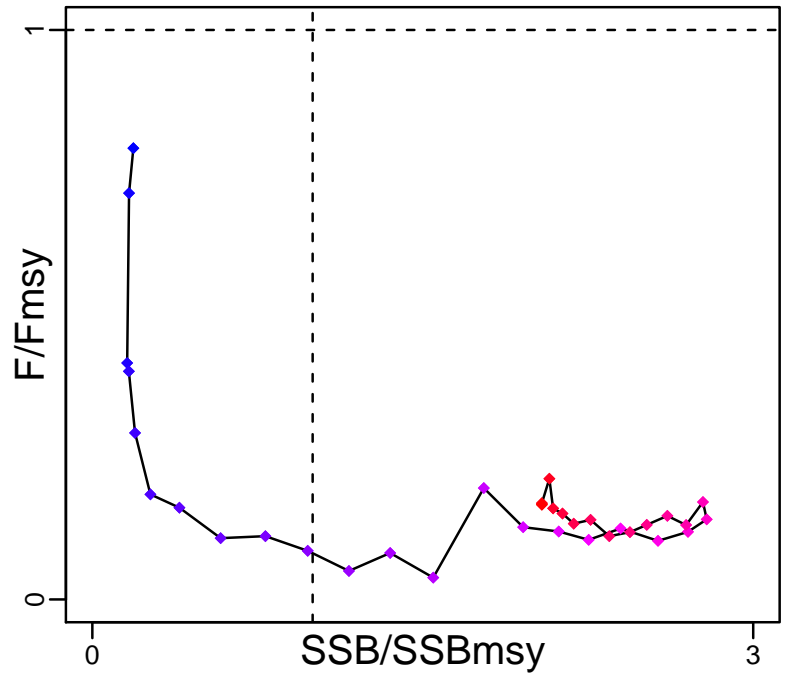
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	738,000	-	3+
SSB	SSB-MT	2015	240,000	Females	9.7+
TN	-	-	-	-	-
R	R-E00	2015	1.67×10^9	-	3
F	F-1/yr	2015	0.045	-	-
ER	ER-calc-ratio	2015	0.021	-	-
TC	TC-MT	2015	15,800		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.148		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.166		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

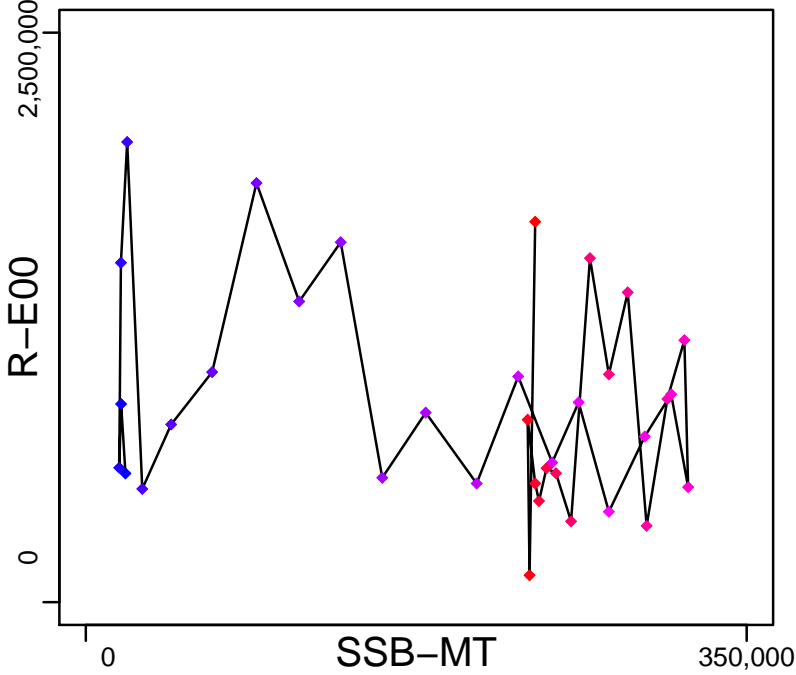
Kobe MSYpref (1974–2010–STACHURA)



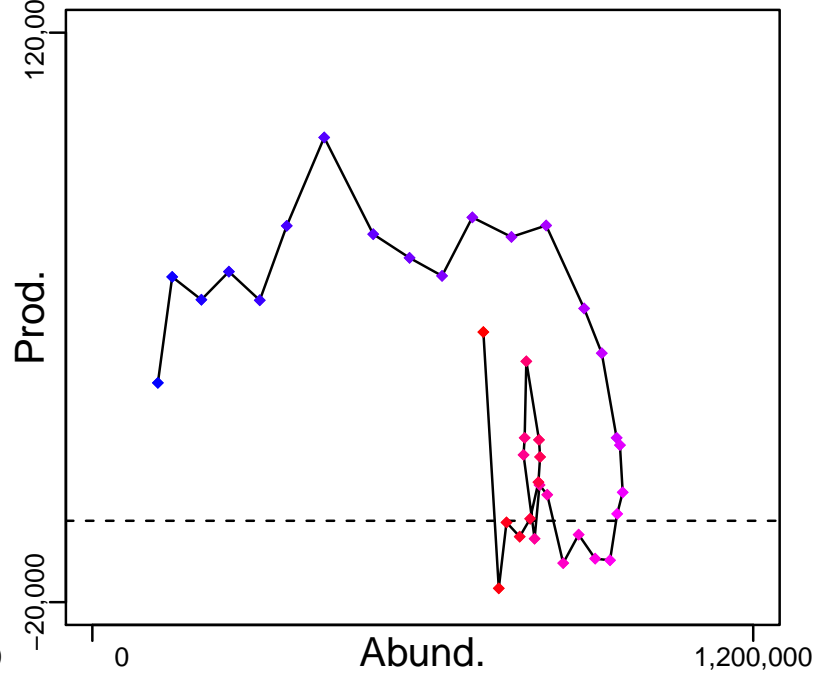
Kobe MGTpref (1974–2010–STACHURA)



Spawner Recruit (1977–2015–SISIMP2016)



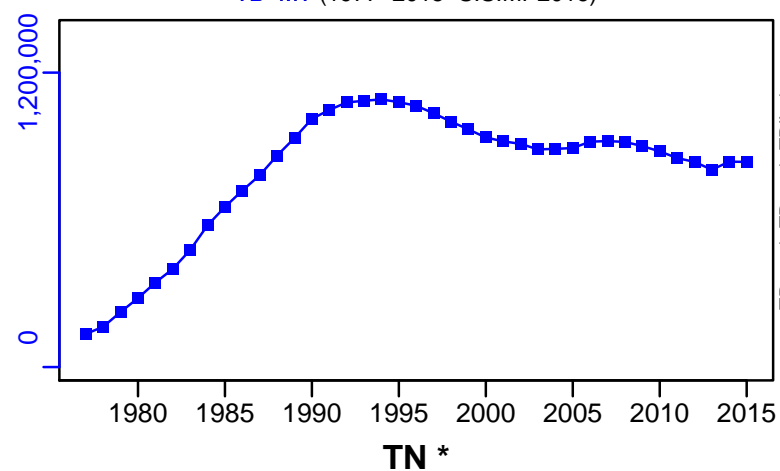
Production (1977–2015–SISIMP2016)



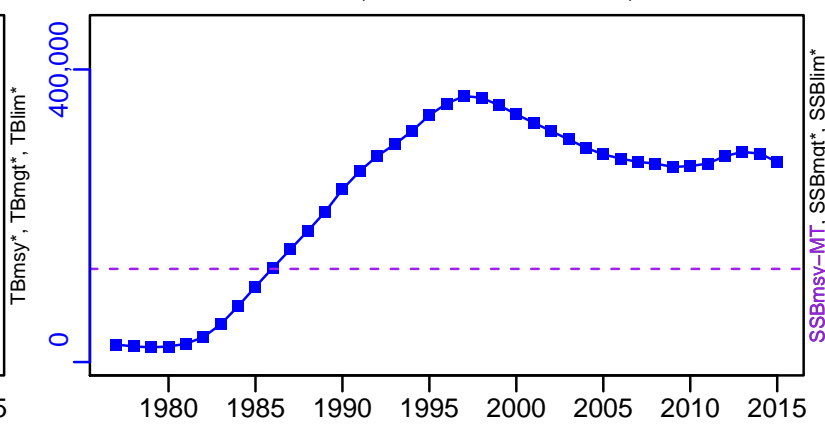
◆ Start Year ◆ End Year * No Data

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

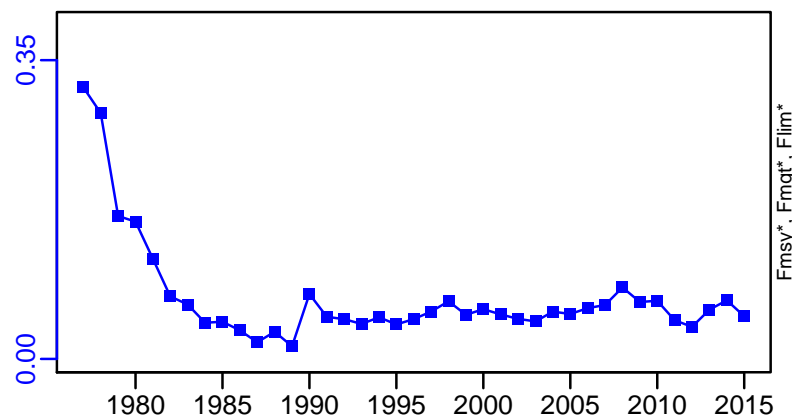
TB-MT (1977–2015–SISIMP2016)



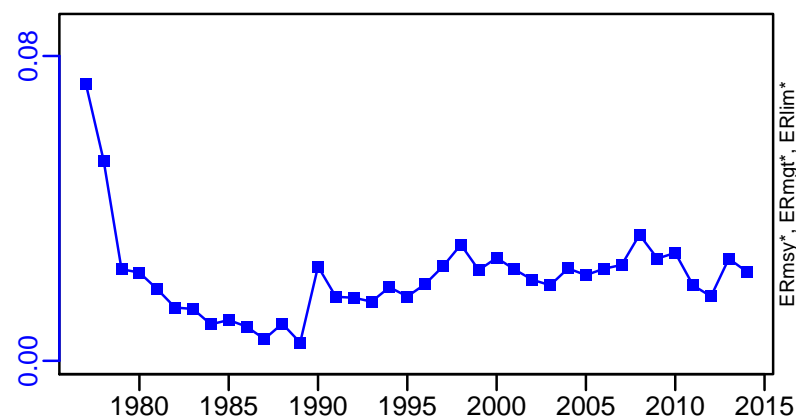
SSB-MT (1977–2015–SISIMP2016)



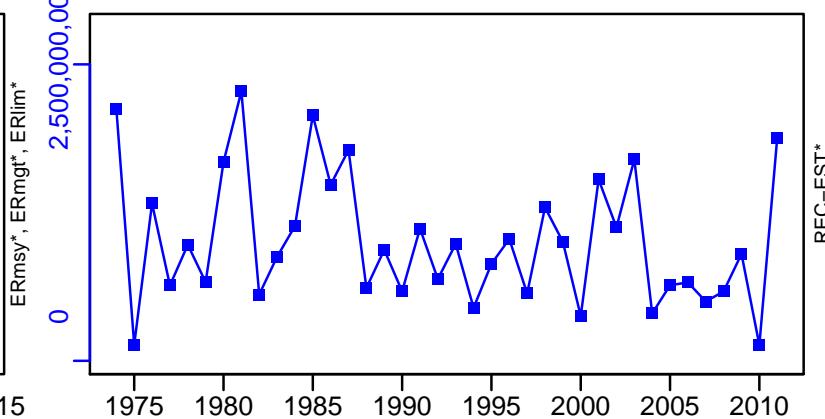
F-1/yr (1977–2015–SISIMP2016)



ER-calc-ratio (1977–2015–SISIMP2016)

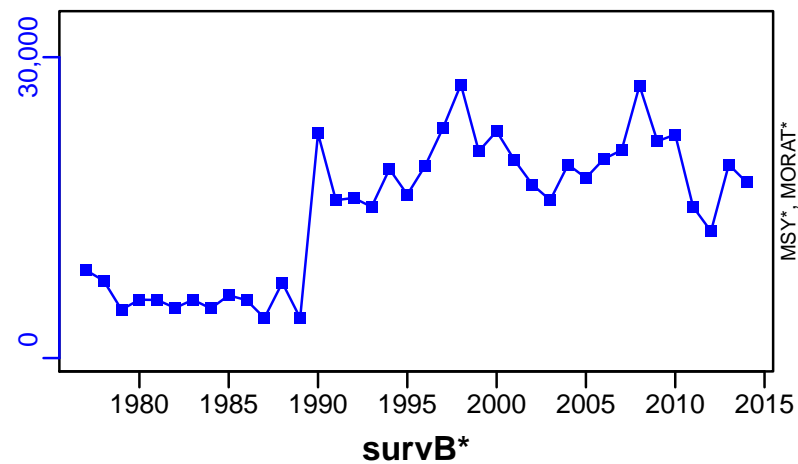


R-E00 (1977–2015–SISIMP2016)



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



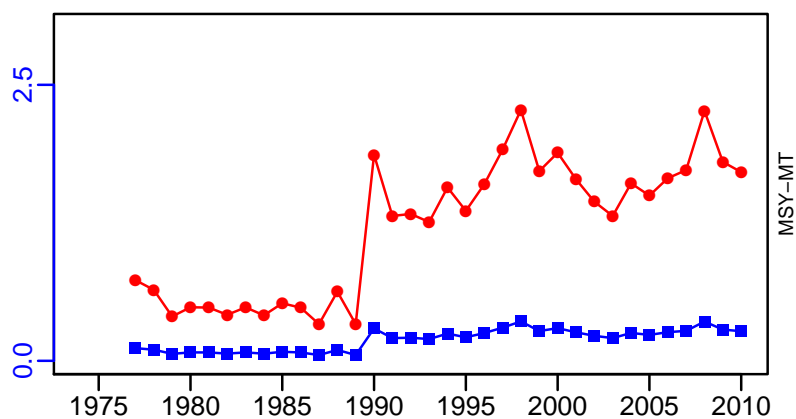
CPUE*



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]

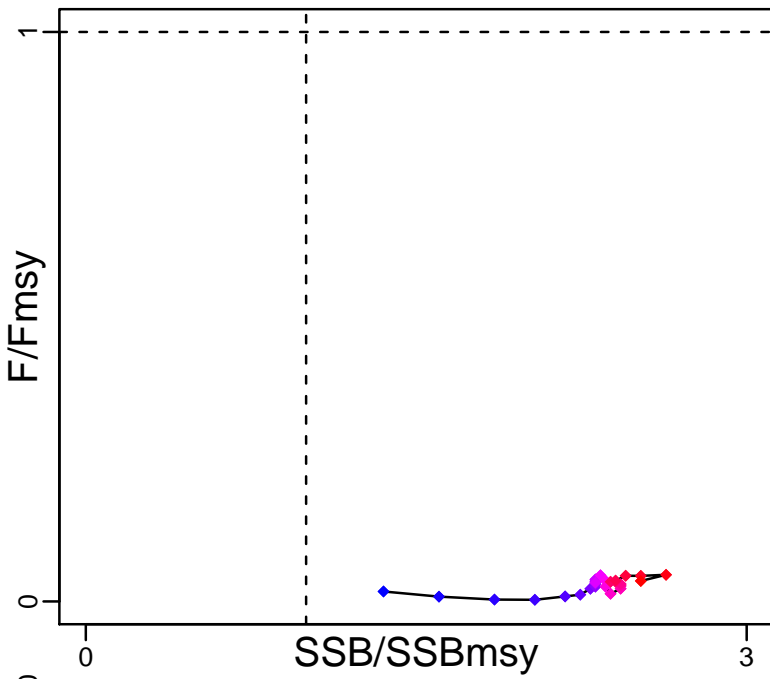
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEGA-1978-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	32,258
Fmsy	Fmsy-pr-1/yr	2010	0.481
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

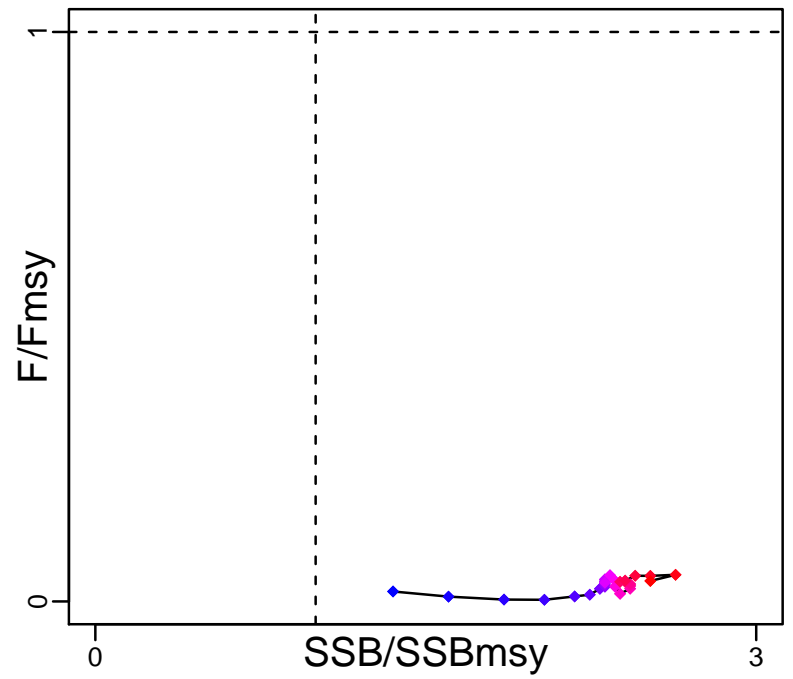
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	258,000	-	3+
SSB	SSB-MT	2015	82,000	Females	8.7+
TN	-	-	-	-	-
R	R-E00	2015	3.72×10^8	-	0
F	F-1/yr	2015	0.016	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2015	2560		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.542		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.036		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Flathead sole Gulf of Alaska [FLSOLEGA]

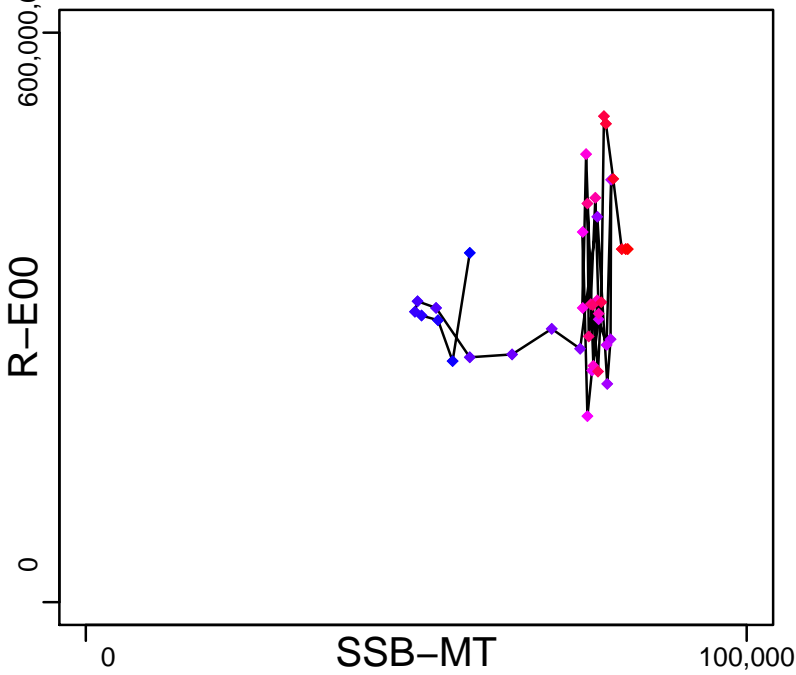
Kobe MSYpref (1978–2010–STACHURA)



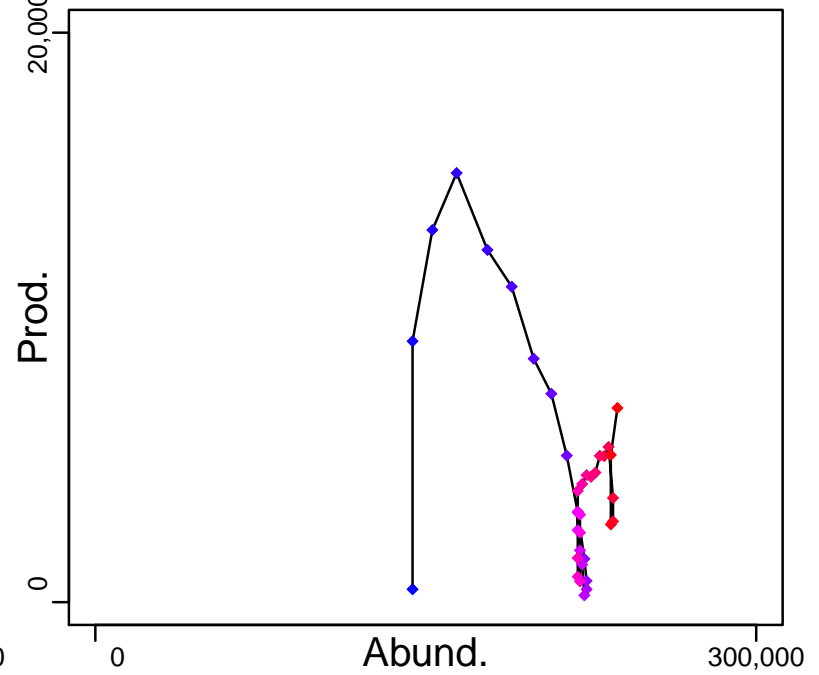
Kobe MGTpref (1978–2010–STACHURA)



Spawner Recruit (1978–2015–SISIMP2016)



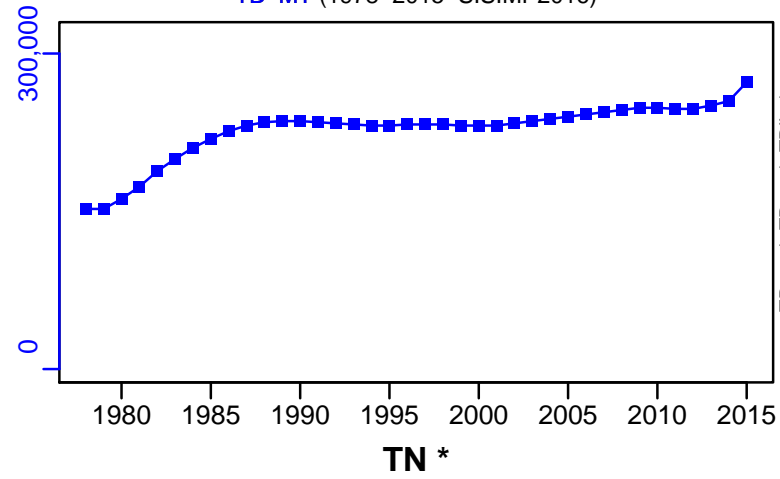
Production (1978–2015–SISIMP2016)



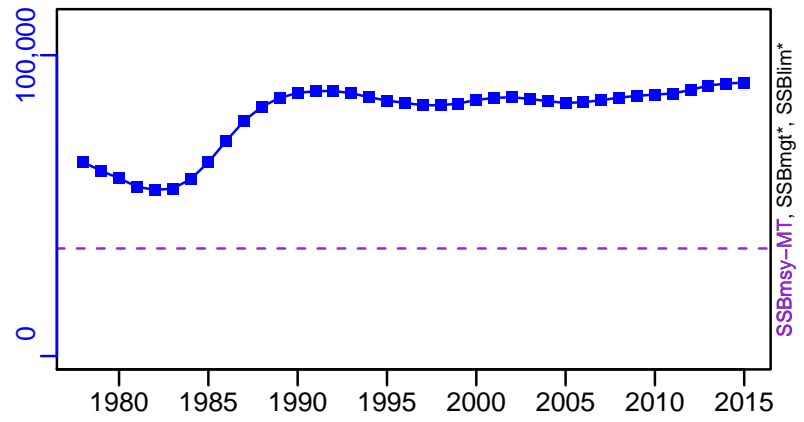
◆ Start Year ◆ End Year * No Data

Flathead sole Gulf of Alaska [FLSOLEGA]

TB-MT (1978–2015–SISIMP2016)



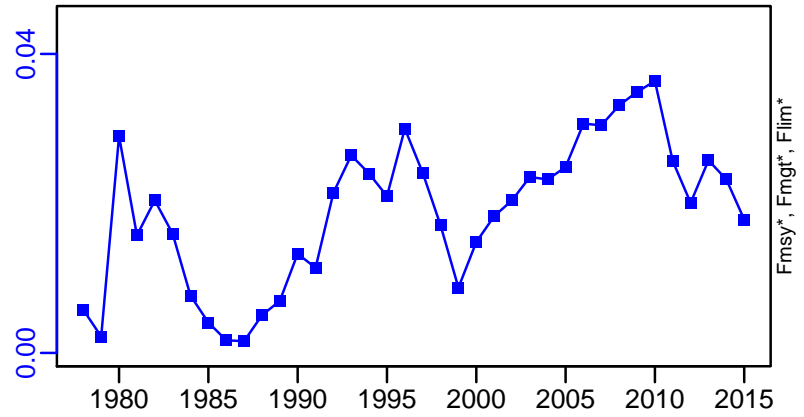
SSB-MT (1978–2015–SISIMP2016)



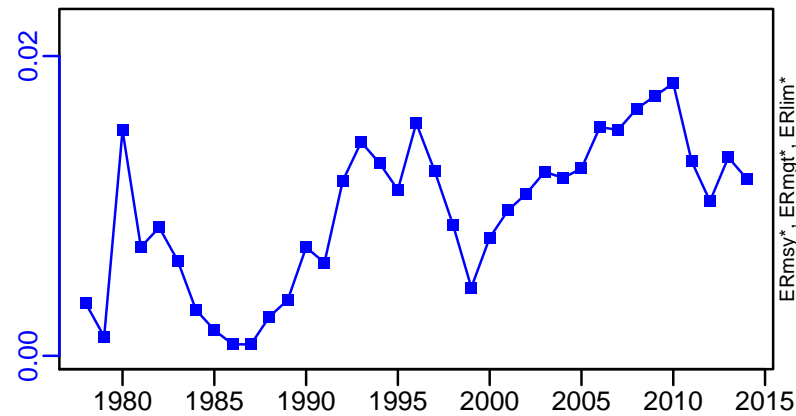
TN *



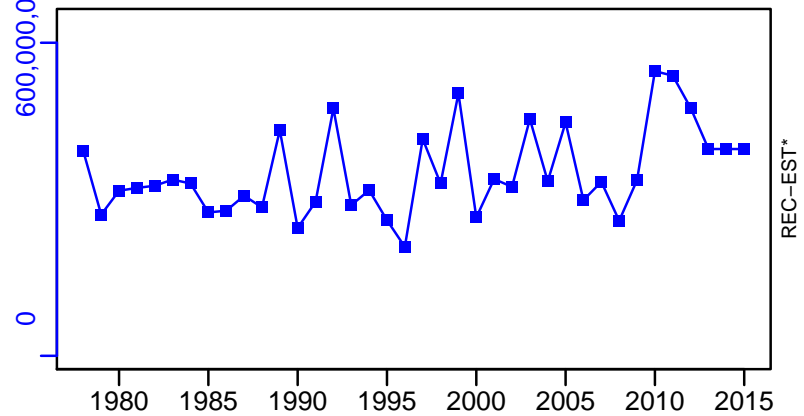
F-1/yr (1978–2015–SISIMP2016)



ER-calc-ratio (1978–2015–SISIMP2016)

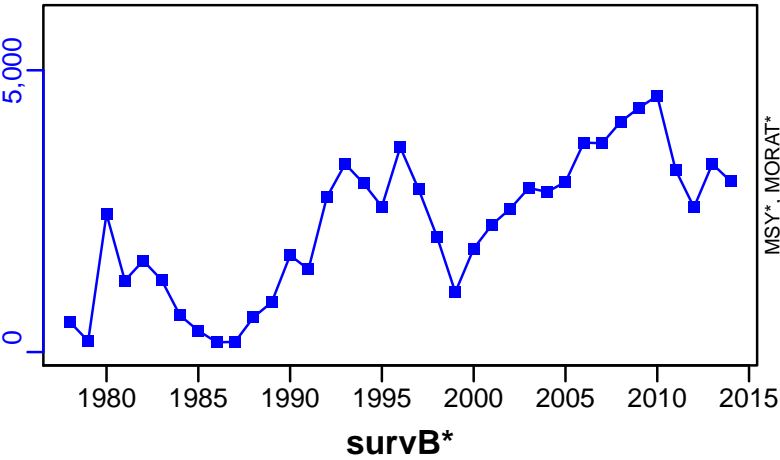


R-E00 (1978–2015–SISIMP2016)



Flathead sole Gulf of Alaska [FLSOLEGA]

TC-MT, TL*, RecC* (1978-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



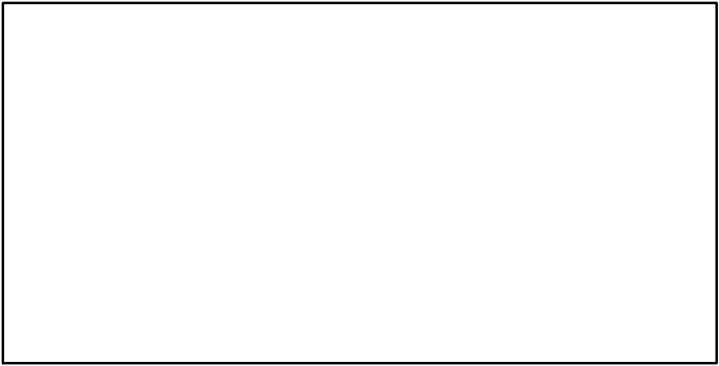
CPUE*



EFFORT*



CdivMSY*



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

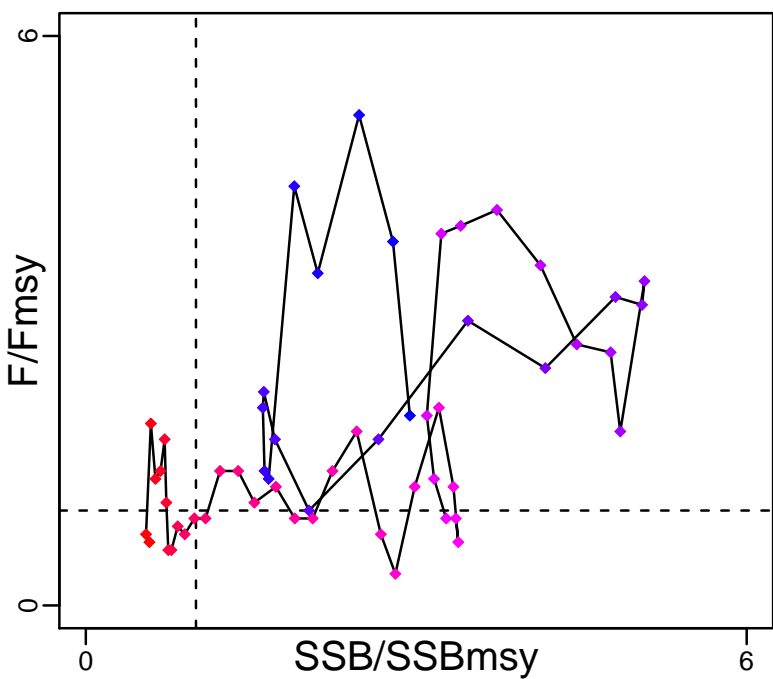
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	AFSC-GHALBSAI-1960-2015-HIVELY
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2015	45,543
Fmsy	Fmsy-pr-1/yr	2015	0.12
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2015	0.11
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

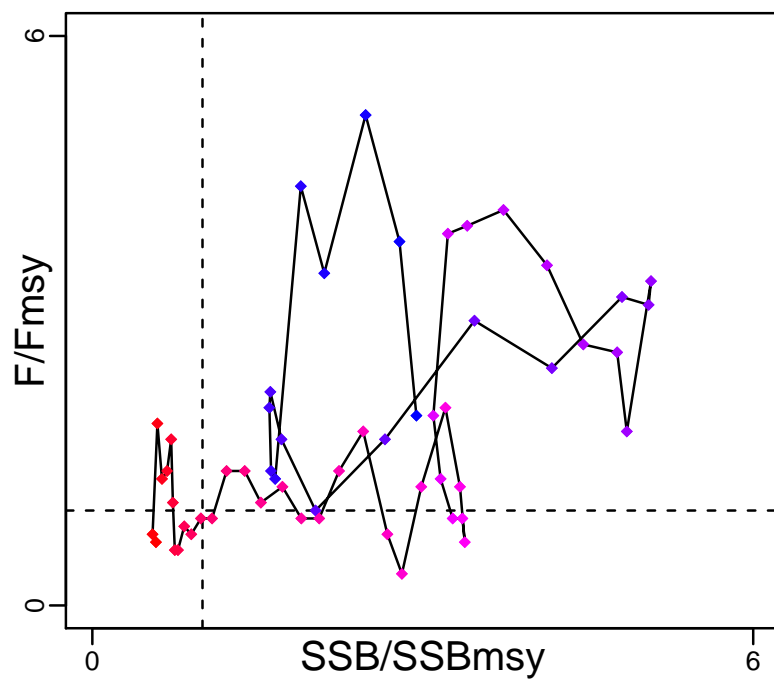
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	122,000	-	1+
SSB	SSB-MT	2015	30,900	Females	-
TN	-	-	-	-	-
R	R-E00	2015	12,600,000	-	0
F	F-1/yr	2015	0.08	-	-
ER	ER-ratio	2015	0.02	-	-
TC	-	-	-		
TL	TL-MT	2015	1650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.678		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2015	0.667		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

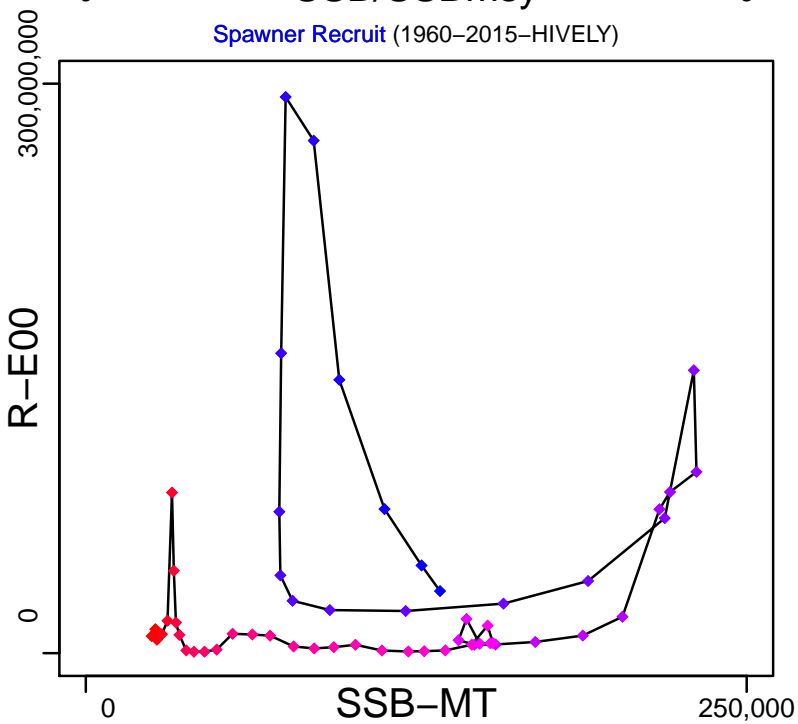
Kobe MSYpref (1960–2015–HIVELY)



Kobe MGTpref (1960–2015–HIVELY)



Spawner Recruit (1960–2015–HIVELY)



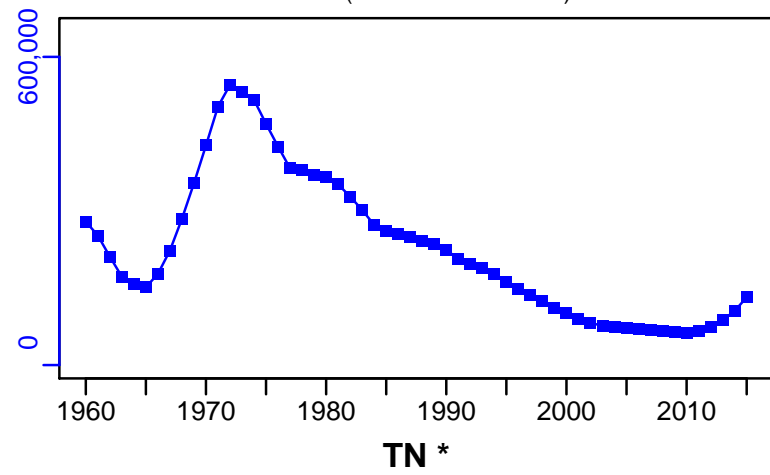
Production*



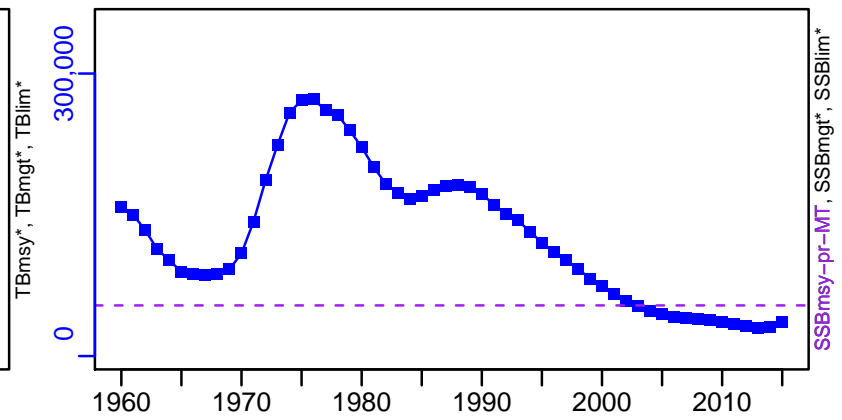
◆ Start Year ◆ End Year * No Data

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TB-MT (1960–2015–HIVELY)



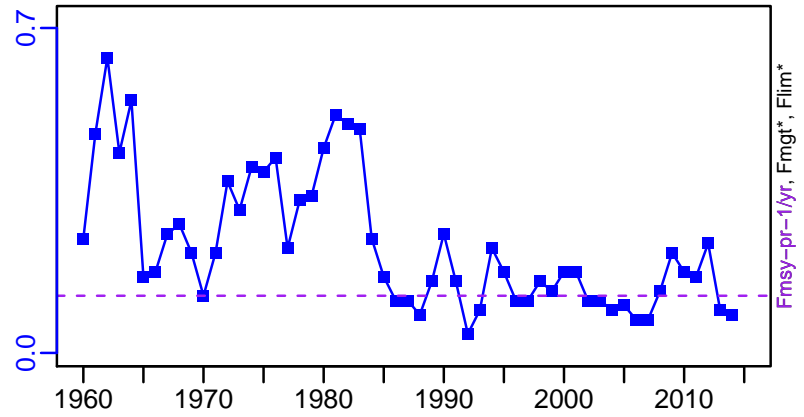
SSB-MT (1960–2015–HIVELY)



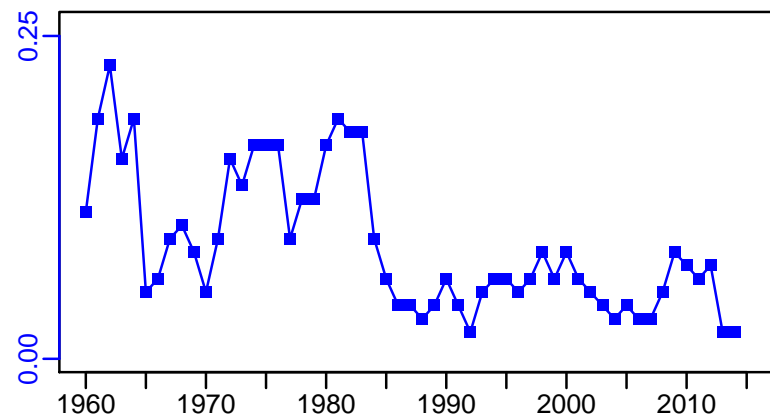
TN *



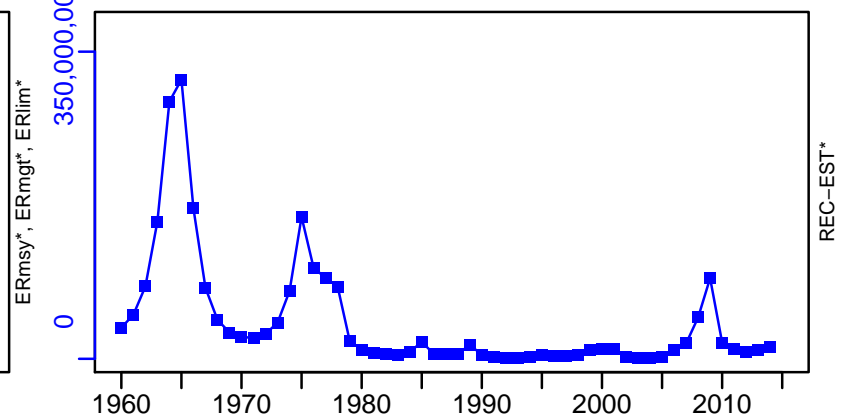
F-1/yr (1960–2015–HIVELY)



ER-ratio (1960–2015–HIVELY)



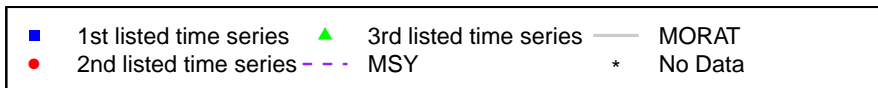
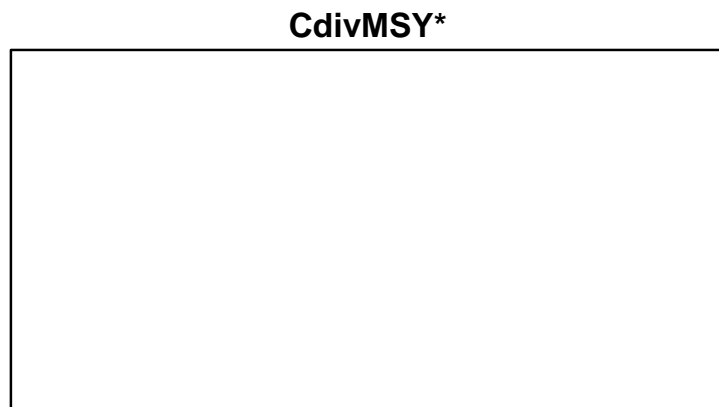
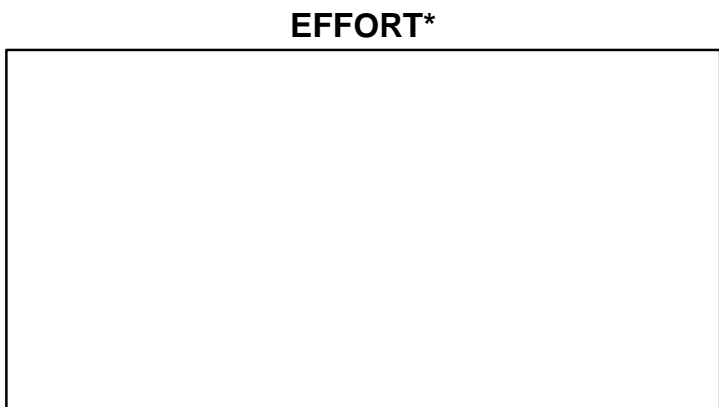
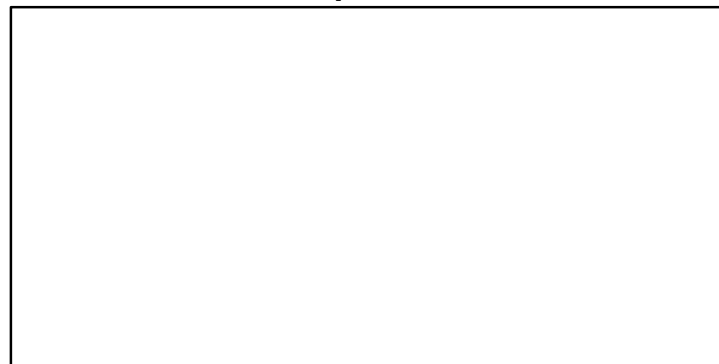
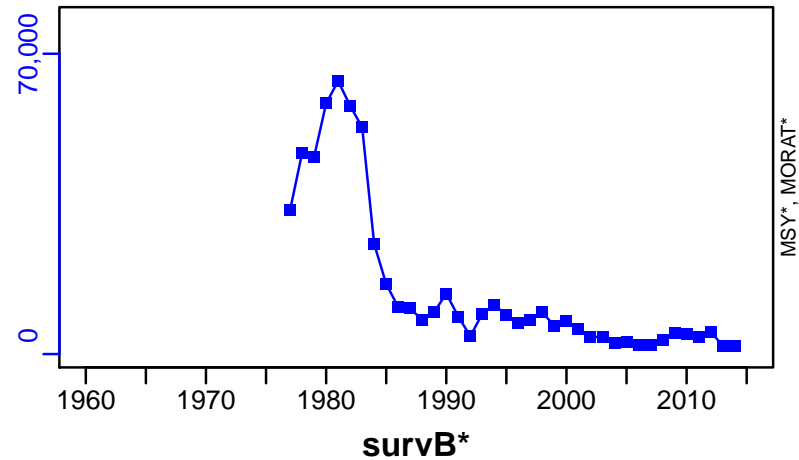
R-E00 (1960–2015–HIVELY)



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TL-MT, TC*, RecC* (1960-2015-HIVELY)

TAC*, Cpair*, Cadv*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOBSAI-1997-2014-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	2014	422		
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*



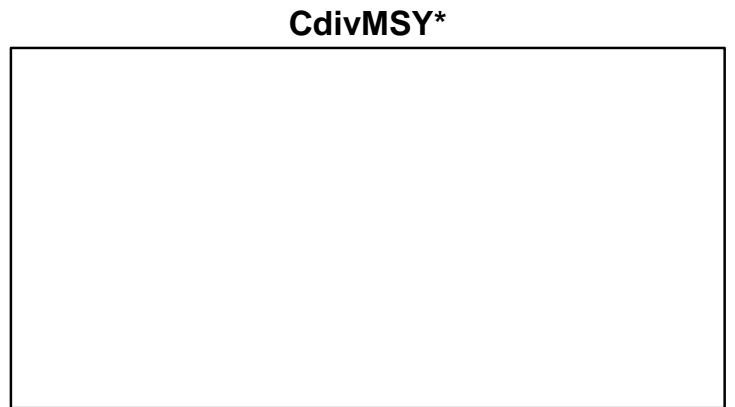
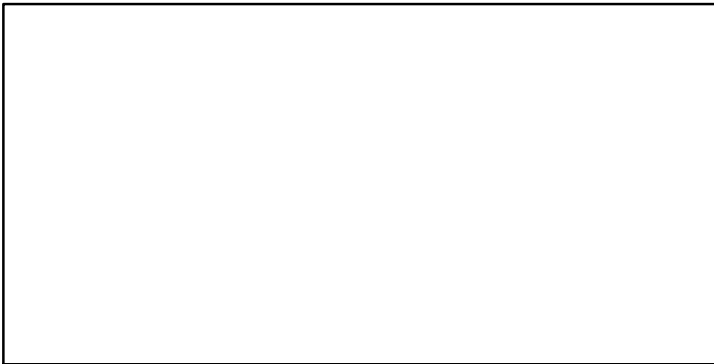
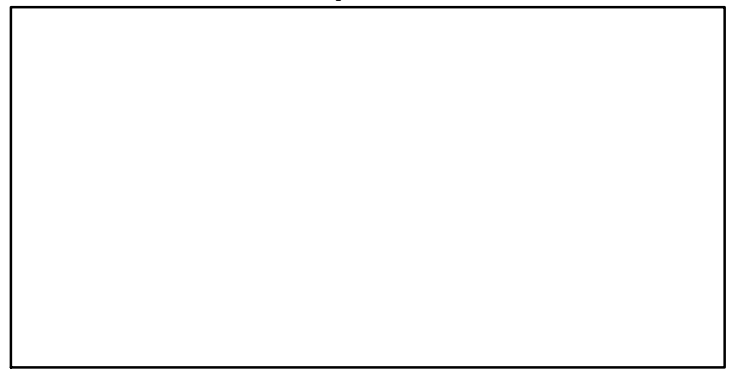
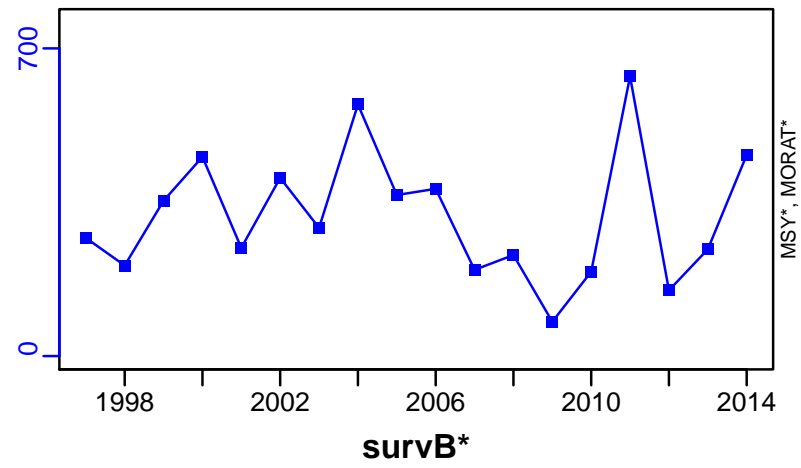
Recruits*



Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TC-MT, TL*, RecC* (1997-2014-SISIMP2016)

TAC*, Cpair*, Cadv*

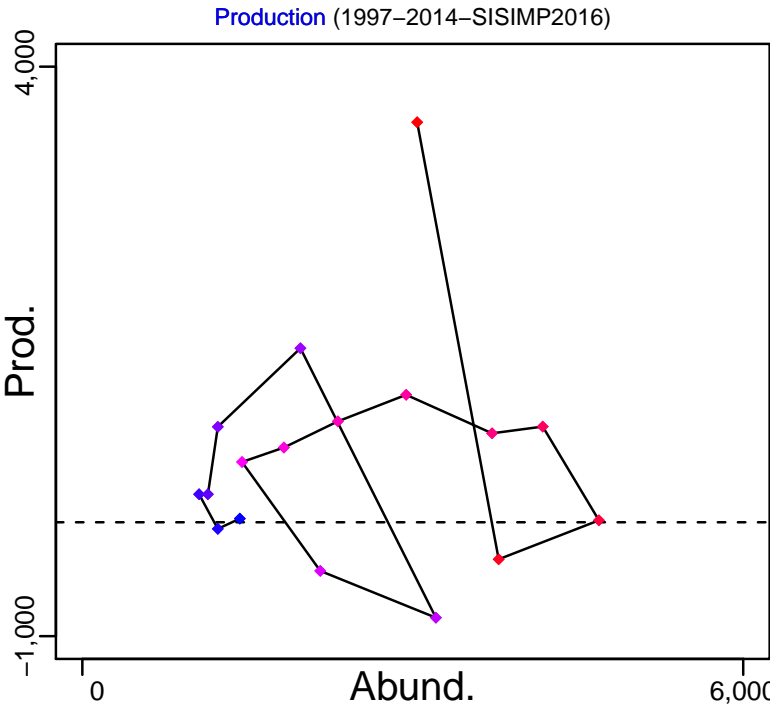


Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOGA-1997-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	2014	1300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

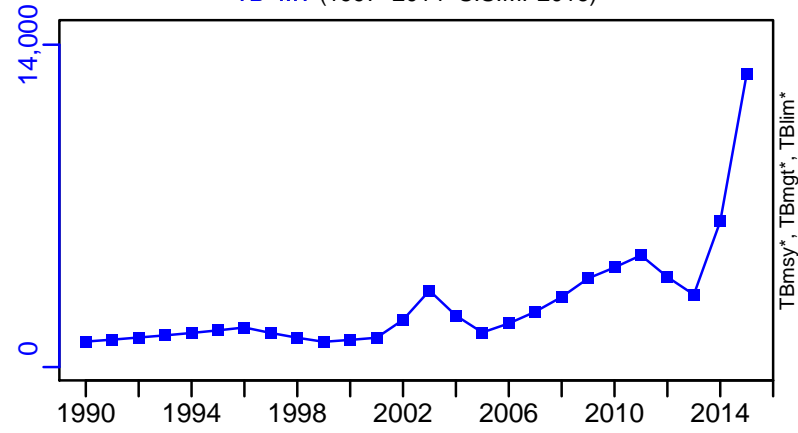


◆ Start Year ◆ End Year * No Data

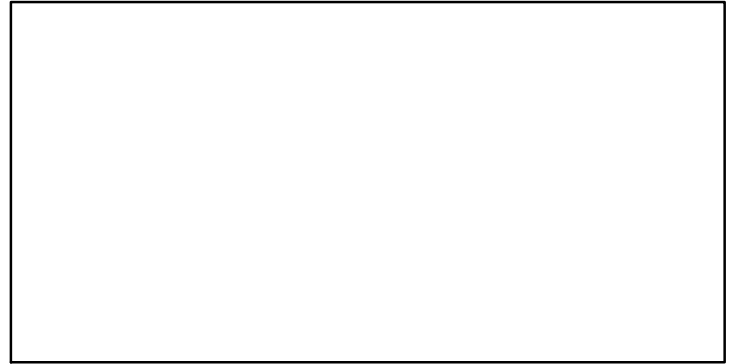
Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TB-MT (1997–2014–SISIMP2016)

SSB*

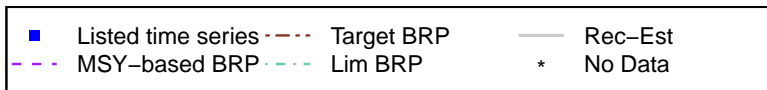
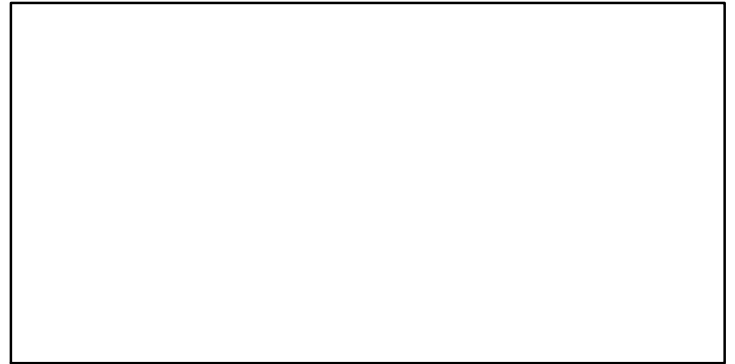
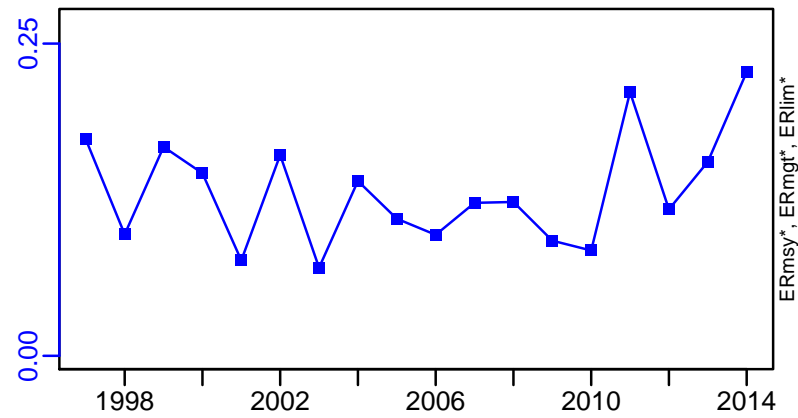


F*



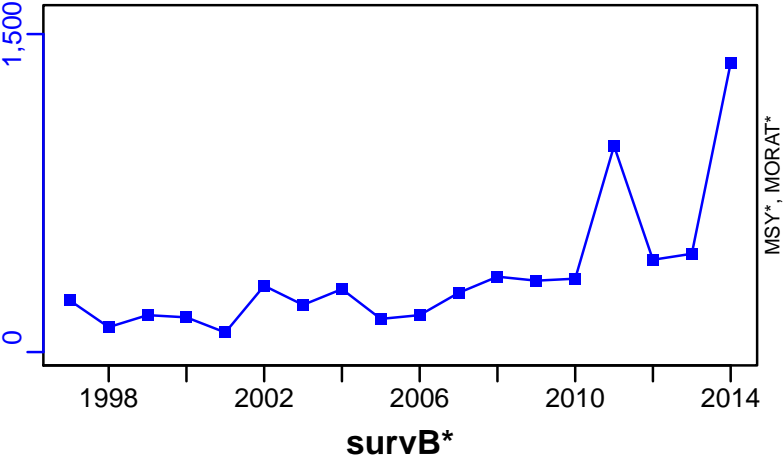
ER-calc-ratio (1997–2014–SISIMP2016)

Recruits*



Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

TC-MT, TL*, RecC* (1997-2014-SISIMP2016)



TAC*, Cpair*, Cadv*



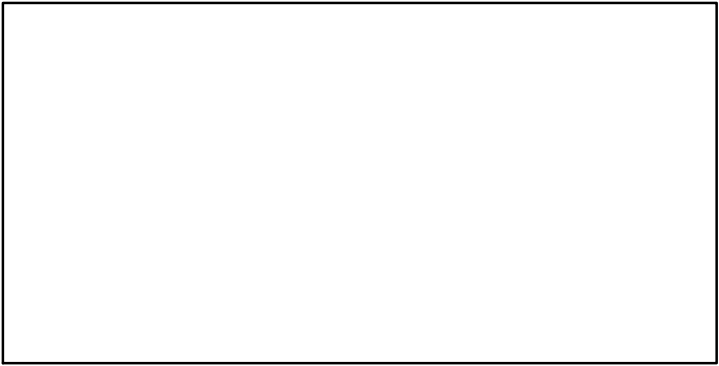
CPUE*



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	TB-MT	2006	9500	-	3+
SSB	SSB-MT	2006	9500	Both	3+
TN	-	-	-	-	-
R	R-E00	2006	30,300,000	-	3
F	F-1/yr	2006	0	Both	3+
ER	ER-calc-ratio	2006	0	-	-
TC	TC-E00	2006	0		
TL	TL-MT	2006	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific herring Prince William Sound [HERRPWS]

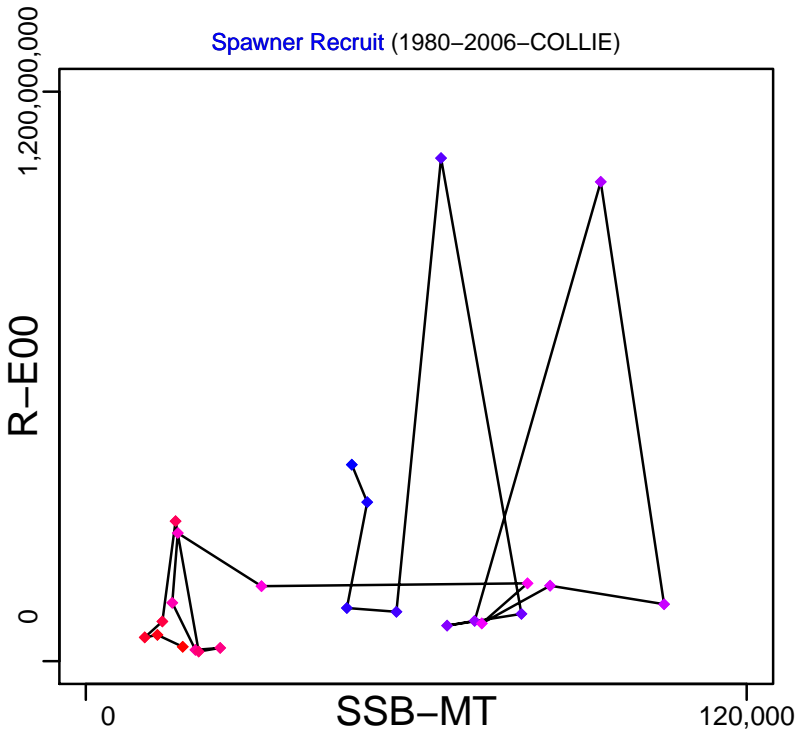
Kobe MSY*



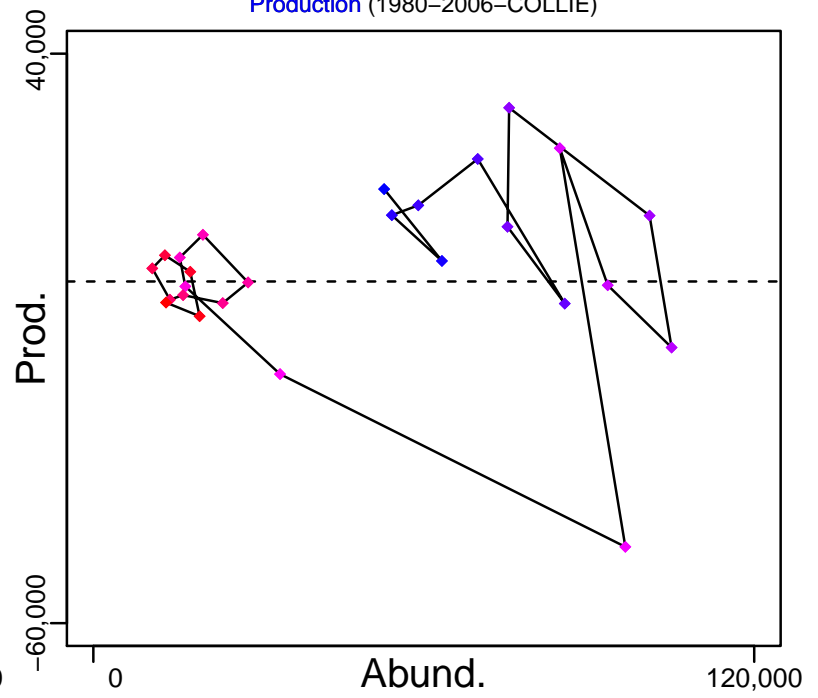
Kobe MGT*



Spawner Recruit (1980–2006–COLLIE)



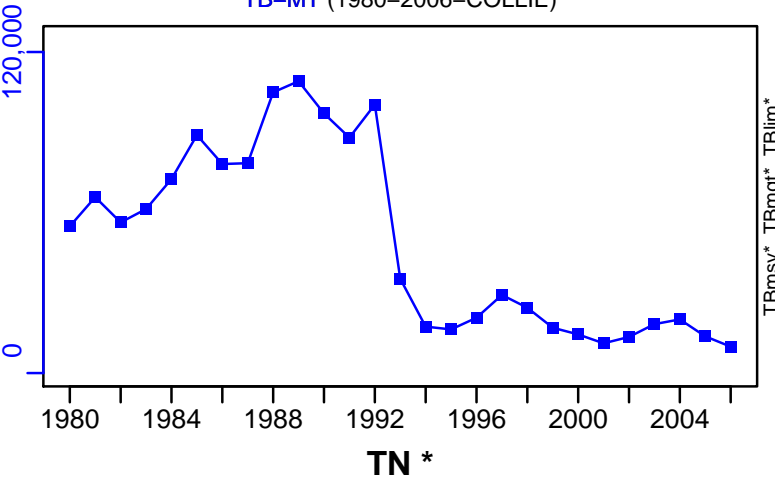
Production (1980–2006–COLLIE)



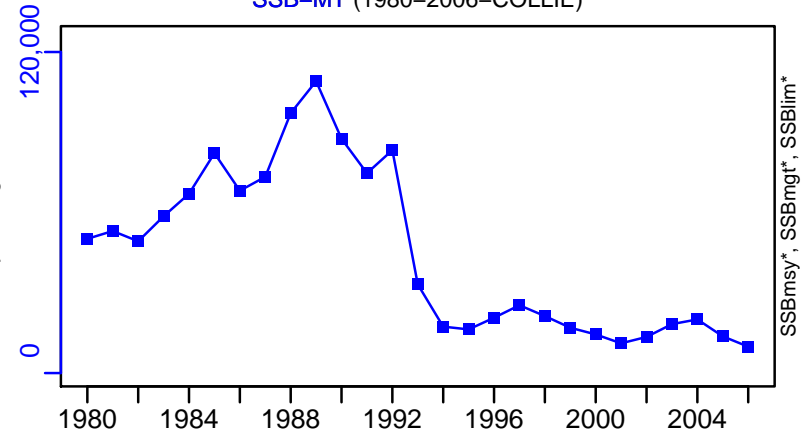
◆ Start Year ◆ End Year * No Data

Pacific herring Prince William Sound [HERRPWS]

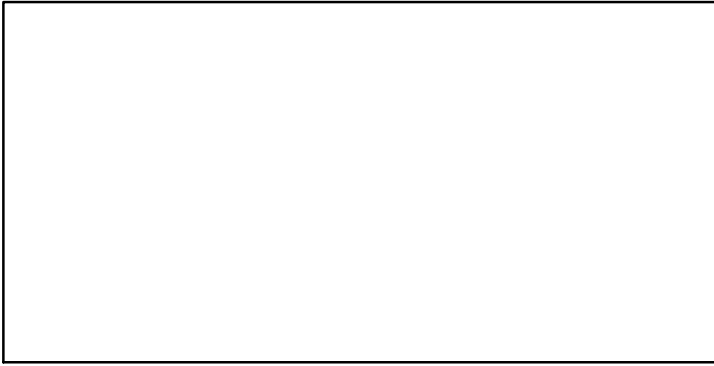
TB-MT (1980-2006-COLLIE)



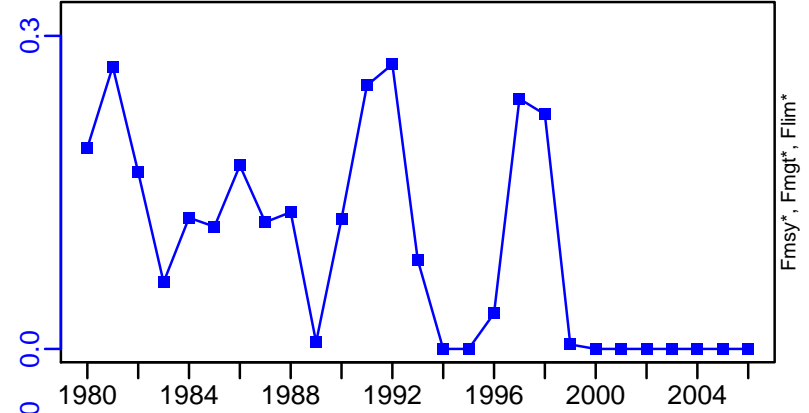
SSB-MT (1980-2006-COLLIE)



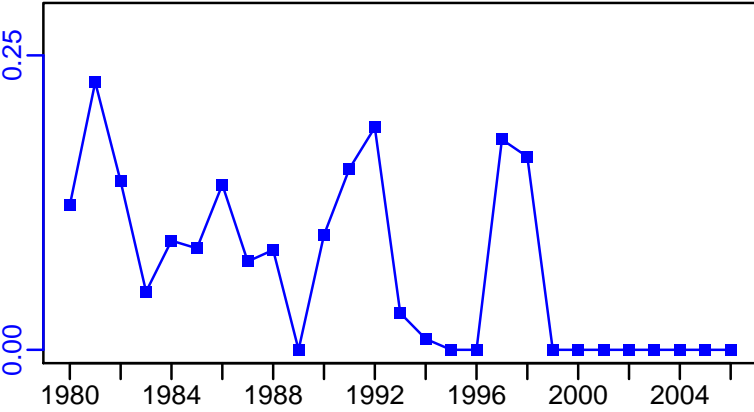
TN *



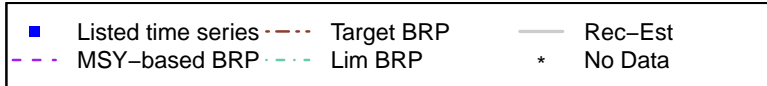
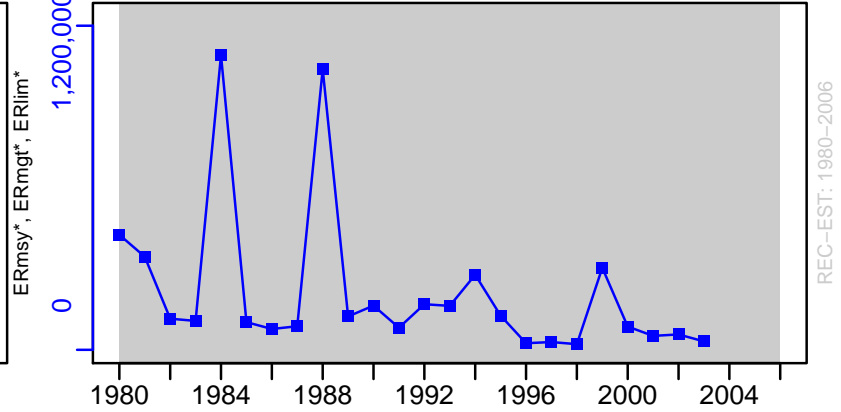
F-1/yr (1980-2006-COLLIE)



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



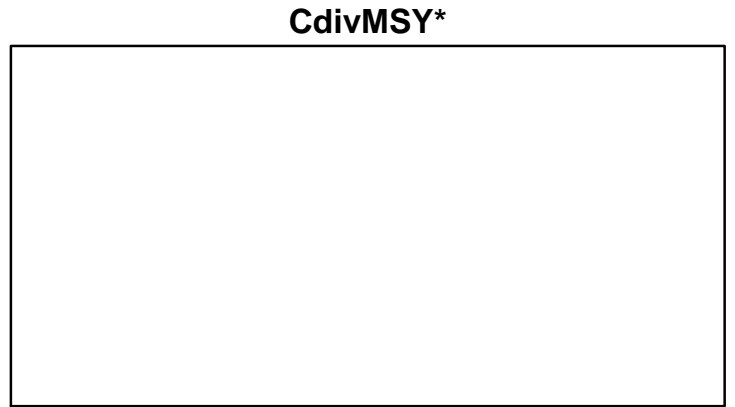
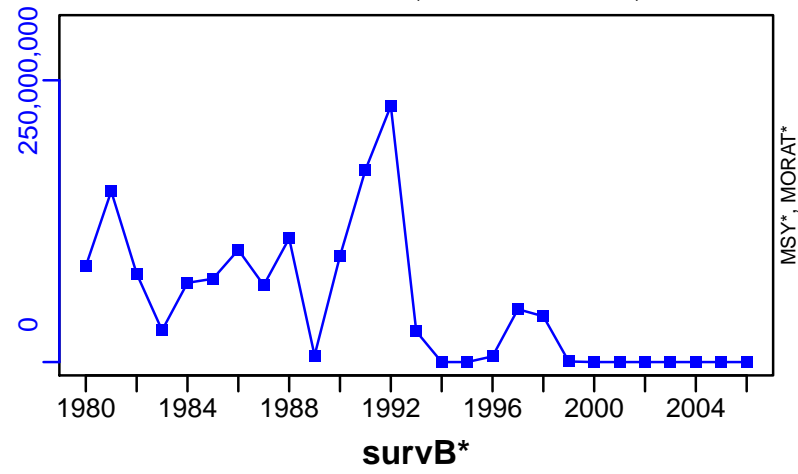
R-E00 (1980-2006-COLLIE)



Pacific herring Prince William Sound [HERRPWS]

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

TAC*, Cpair*, Cadv*



Pacific herring Sitka [HERRSITKA]

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

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

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

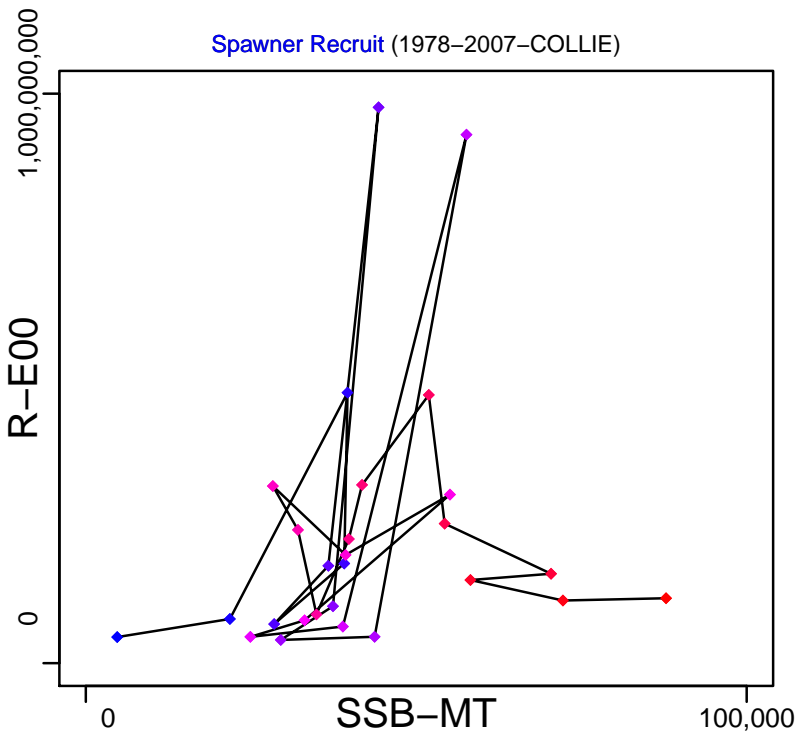
Kobe MSY*



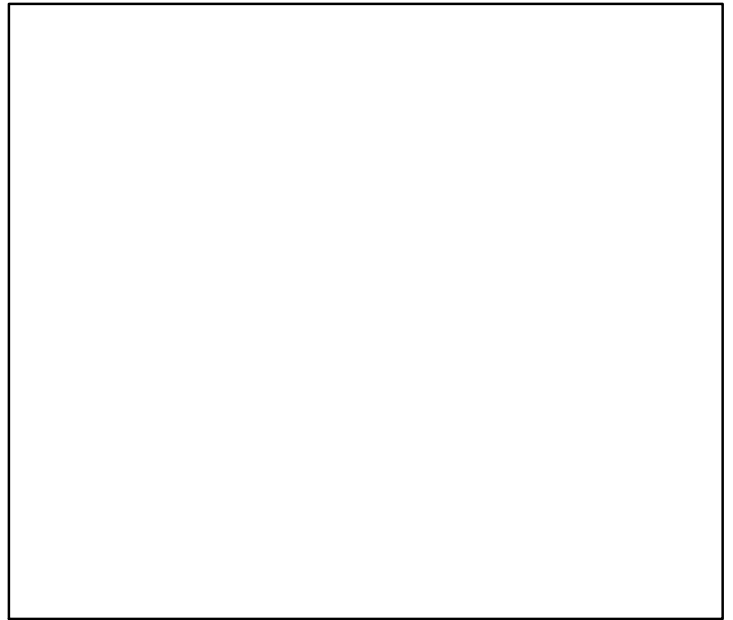
Kobe MGT*



Spawner Recruit (1978–2007–COLLIE)



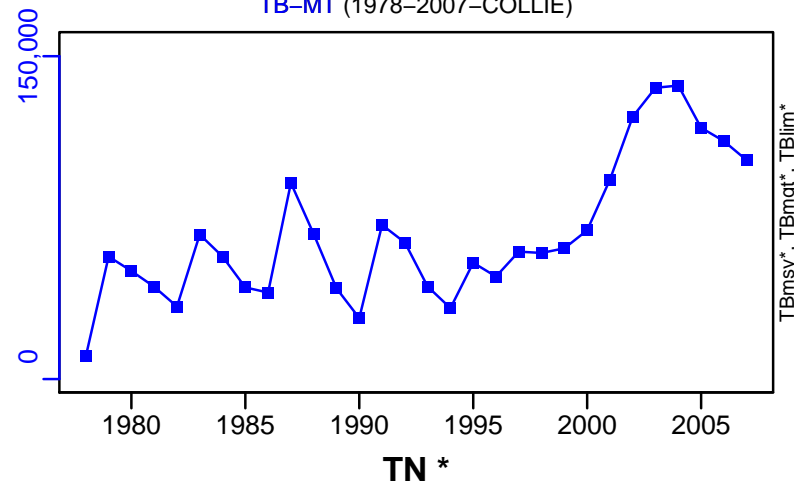
Production*



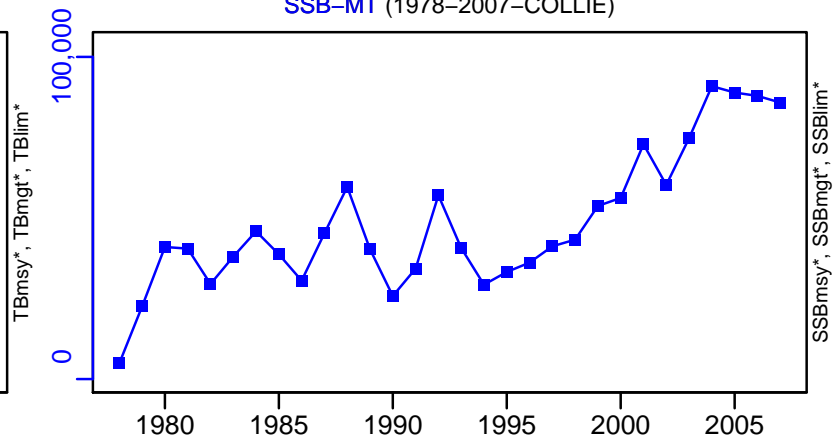
◆ Start Year ◆ End Year * No Data

Pacific herring Sitka [HERRSITKA]

TB-MT (1978–2007–COLLIE)



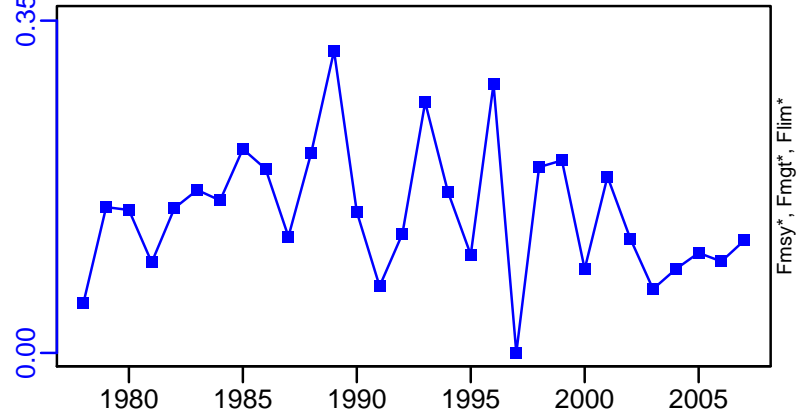
SSB-MT (1978–2007–COLLIE)



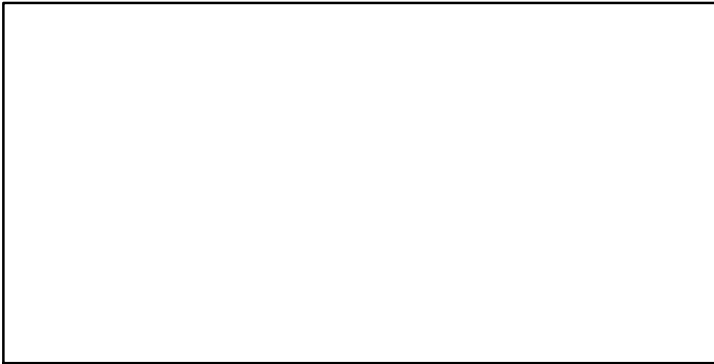
TN *



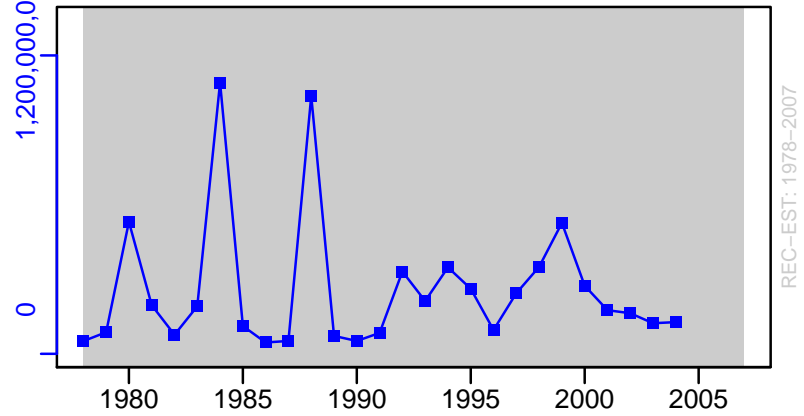
F-1/yr (1978–2007–COLLIE)



ER*

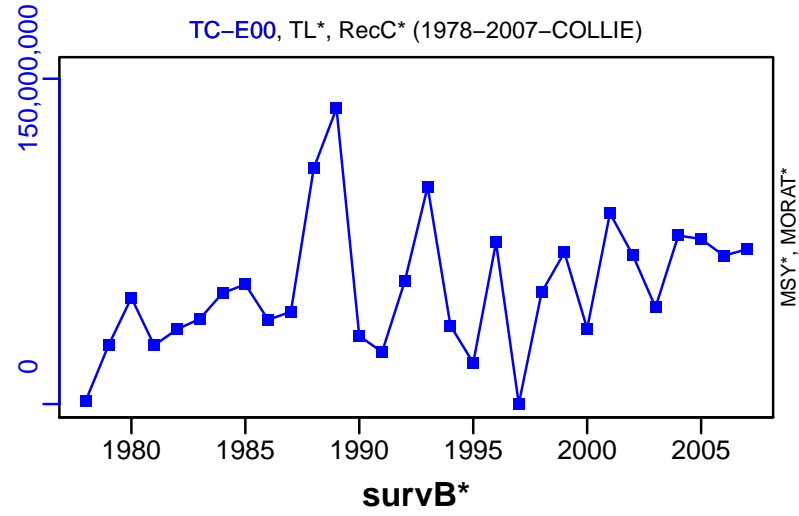


R-E00 (1978–2007–COLLIE)



Pacific herring Sitka [HERRSITKA]

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



TAC*, Cpair*, Cadv*



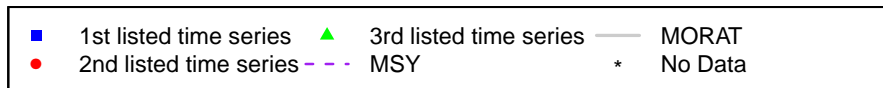
CPUE*



EFFORT*



CdivMSY*

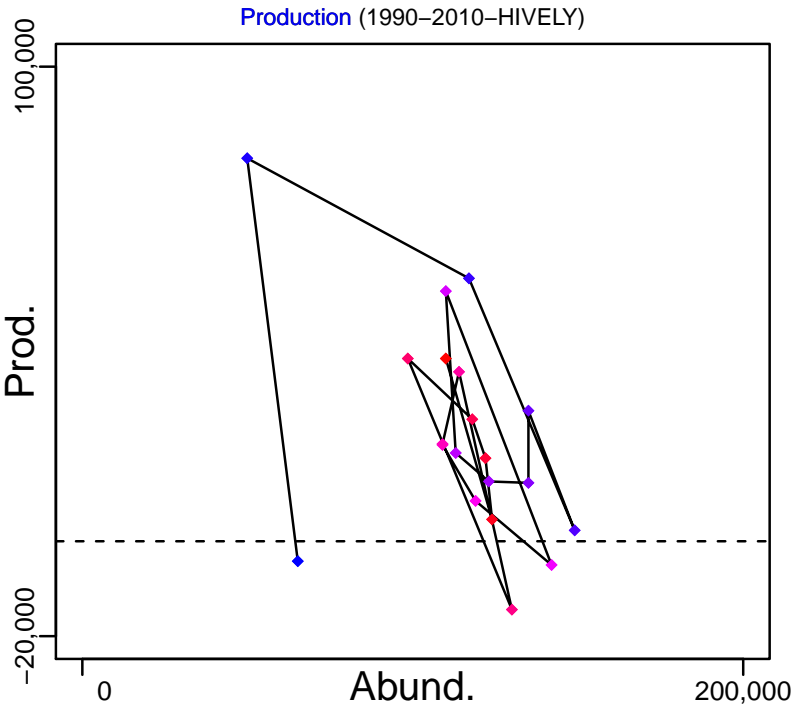


Pacific herring Togiak District [HERRTOG]

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

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

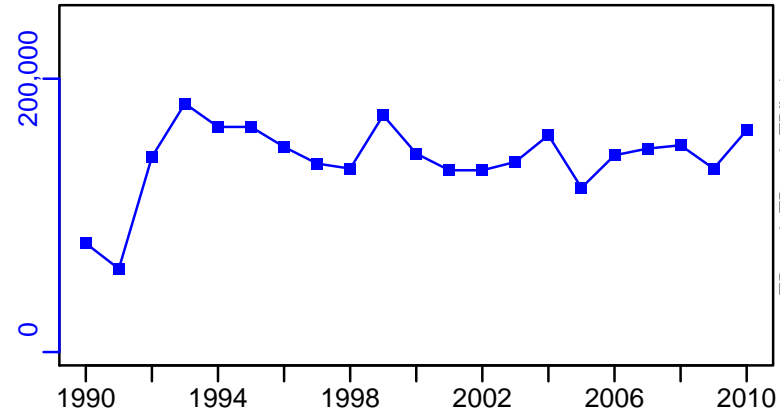


◆ Start Year ◆ End Year * No Data

Pacific herring Togiak District [HERRTOG]

TB-MT (1990-2010-HIVELY)

SSB*



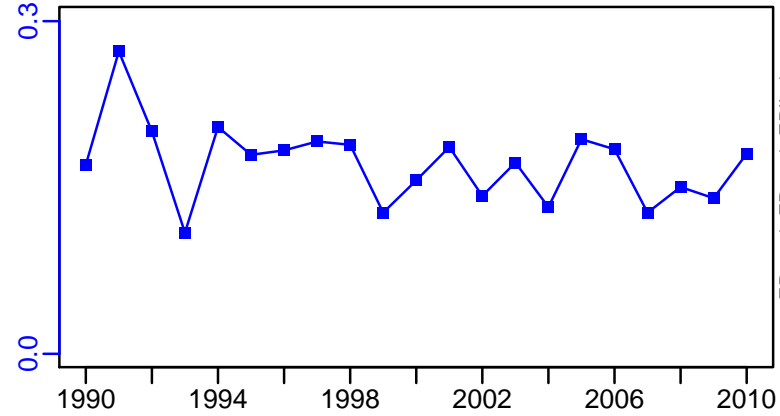
TN *

F*



ER-ratio (1990-2010-HIVELY)

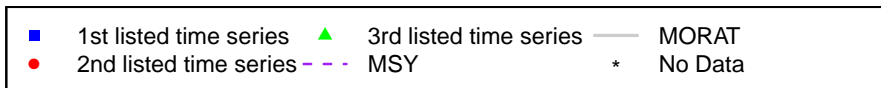
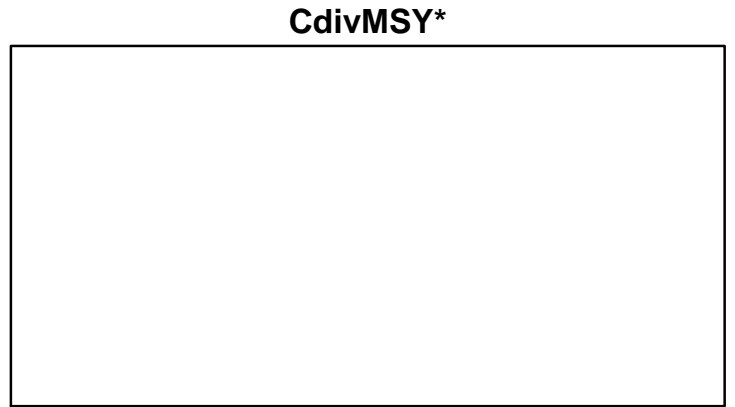
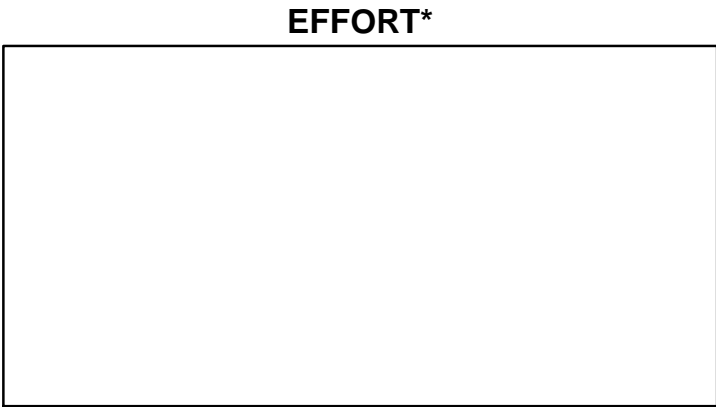
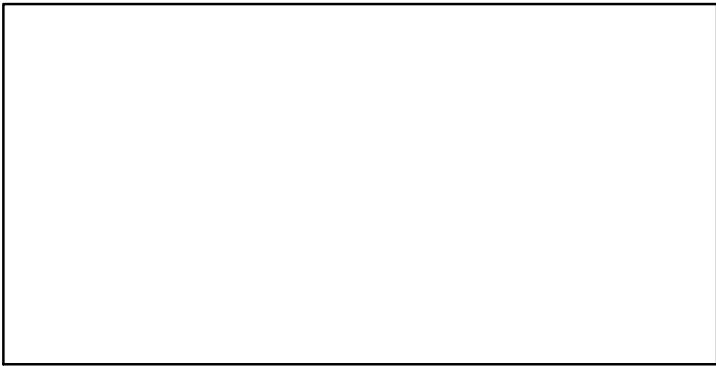
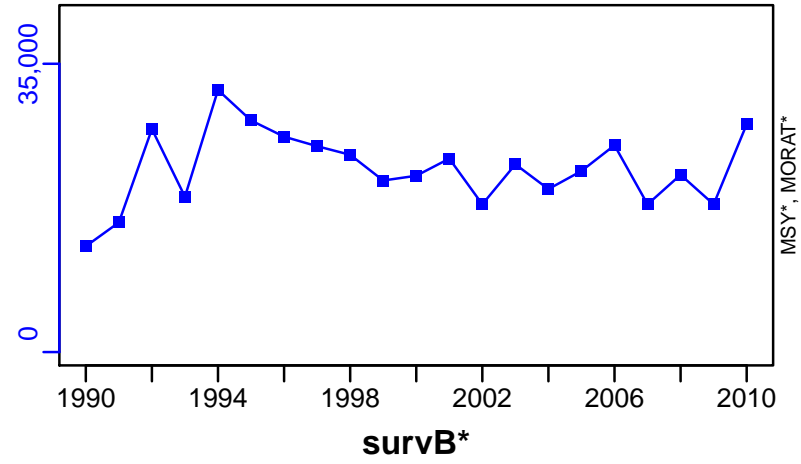
Recruits*



Pacific herring Togiak District [HERRTOG]

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

TAC*, Cpair*, Cadv*



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

Metadata	
Scientific Name	Atheresthes evermanni
Current Assess ID	AFSC-KMFLOUNBSAI-1991-2015-SISIMP2016
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-MT	2015	46,400
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	2015	168,000	Both	2+
SSB	SSB-MT	2015	61,700	Females	10+
TN	-	-	-	-	-
R	R-E00	2015	19,200,000	-	1
F	F-1/yr	2015	0.04	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2015	6460		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.33		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

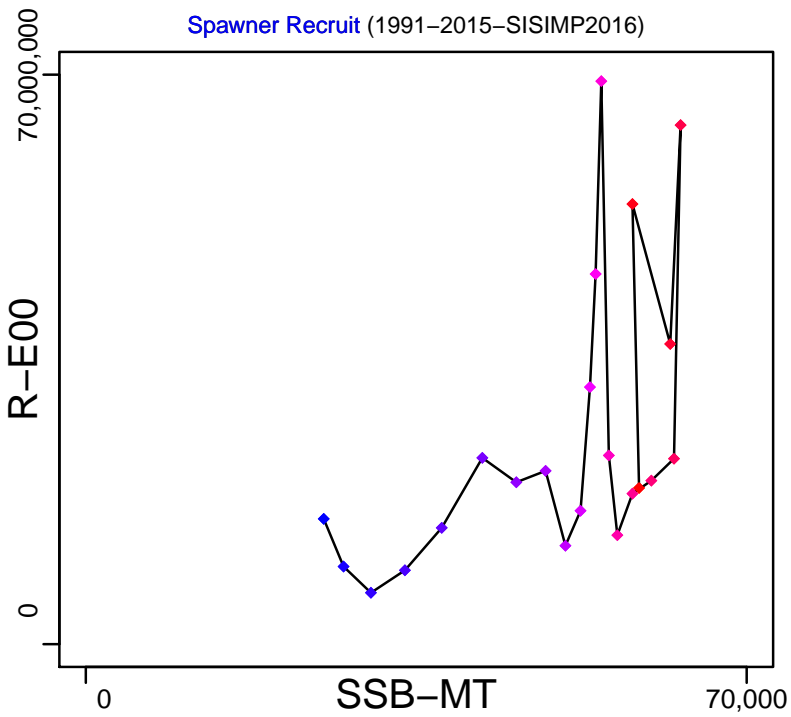
Kobe MSY*



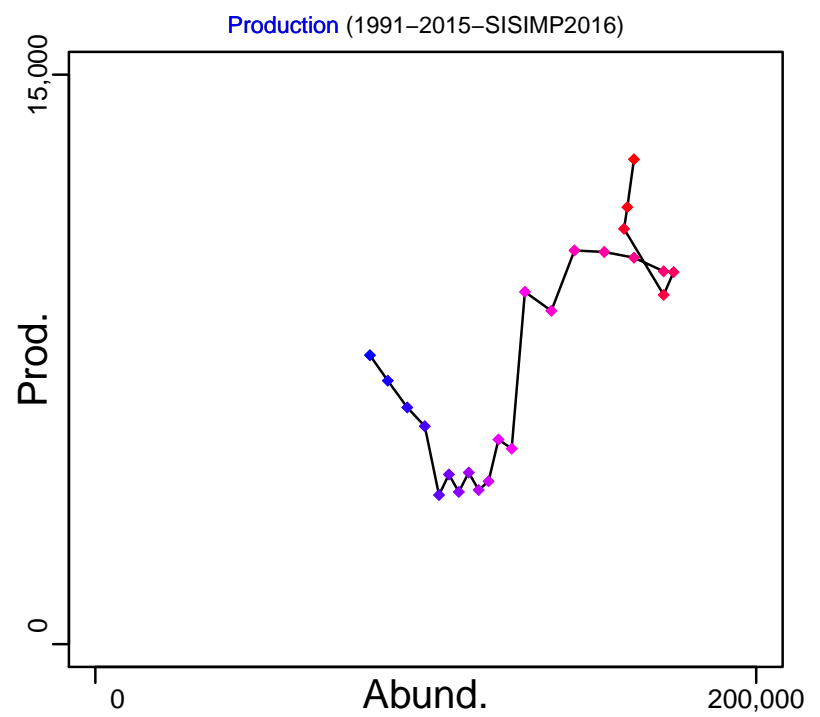
Kobe MGT*



Spawner Recruit (1991–2015–SISIMP2016)



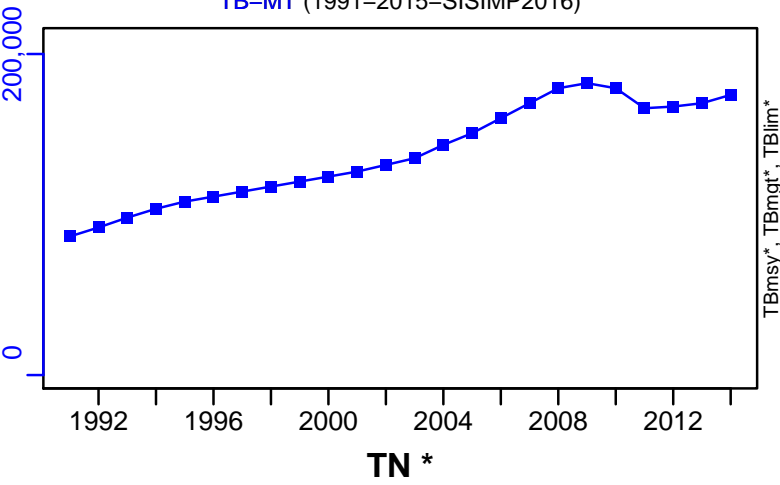
Production (1991–2015–SISIMP2016)



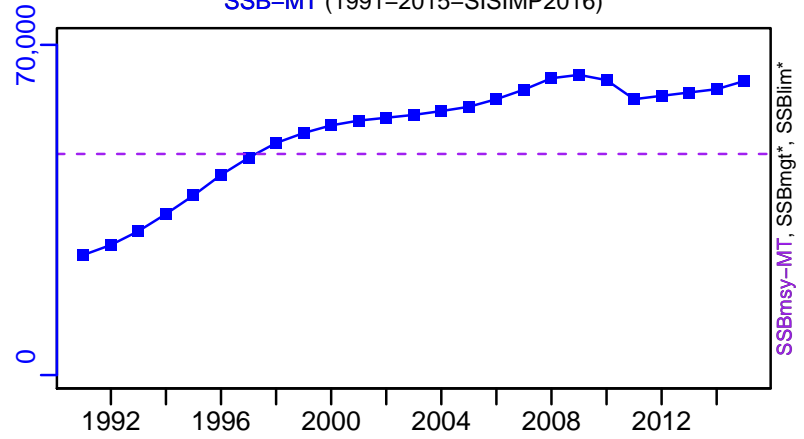
◆ Start Year ◆ End Year * No Data

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

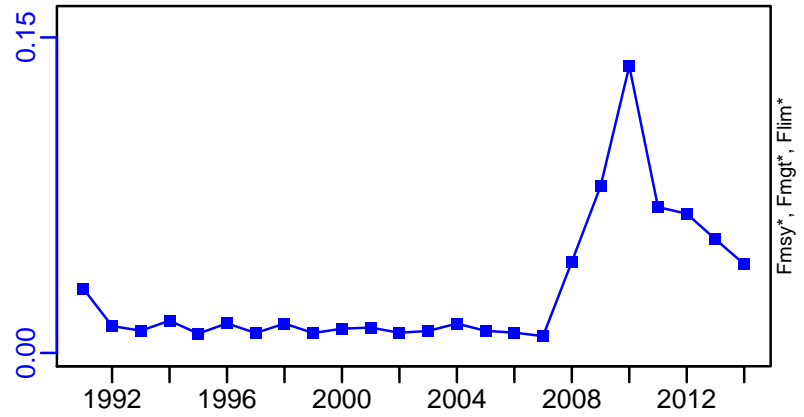
TB-MT (1991–2015–SISIMP2016)



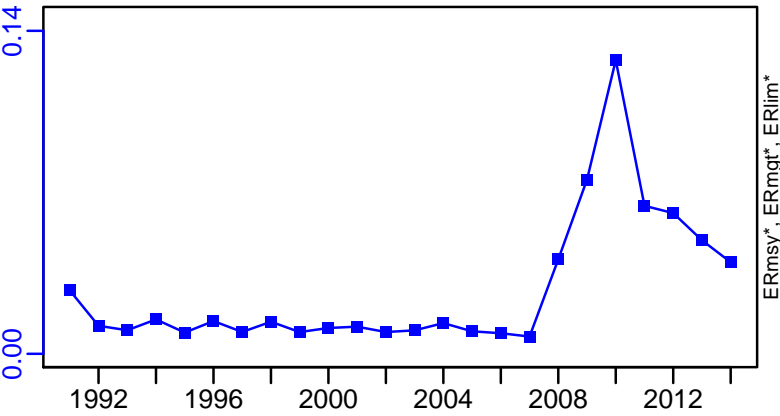
SSB-MT (1991–2015–SISIMP2016)



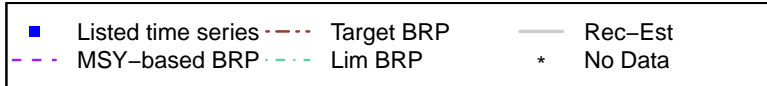
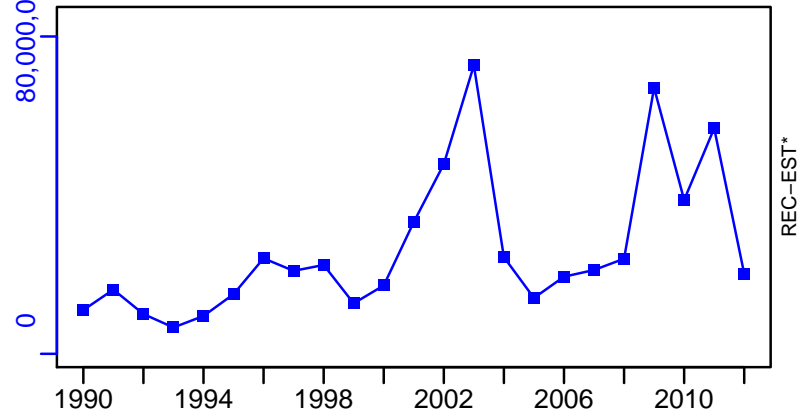
F-1/yr (1991–2015–SISIMP2016)



ER-calc-ratio (1991–2015–SISIMP2016)



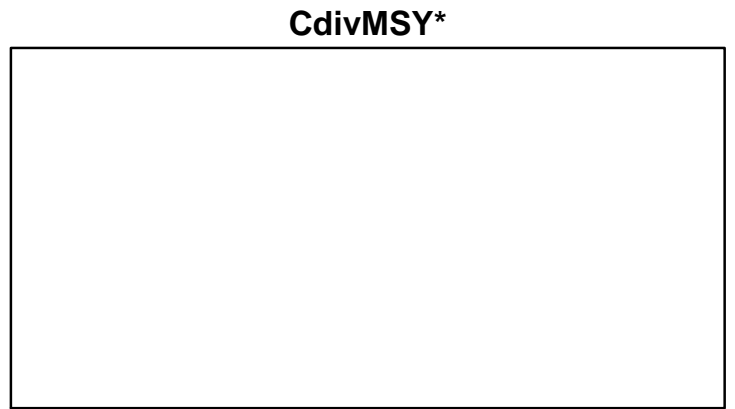
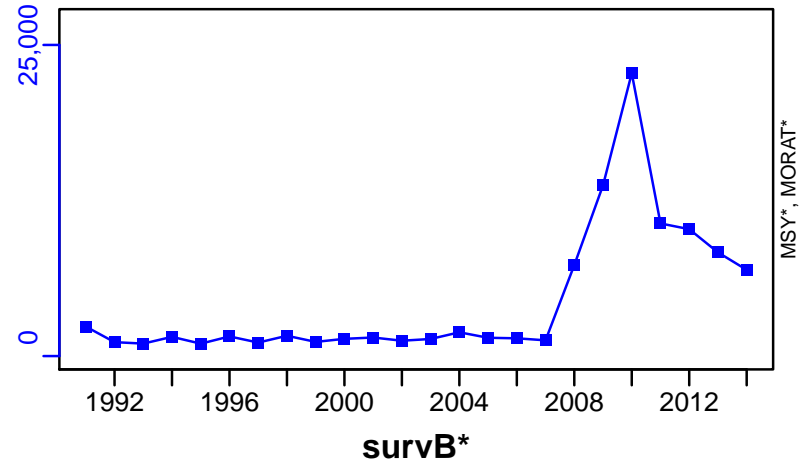
R-E00 (1991–2015–SISIMP2016)



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

TC-MT, TL*, RecC* (1991-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

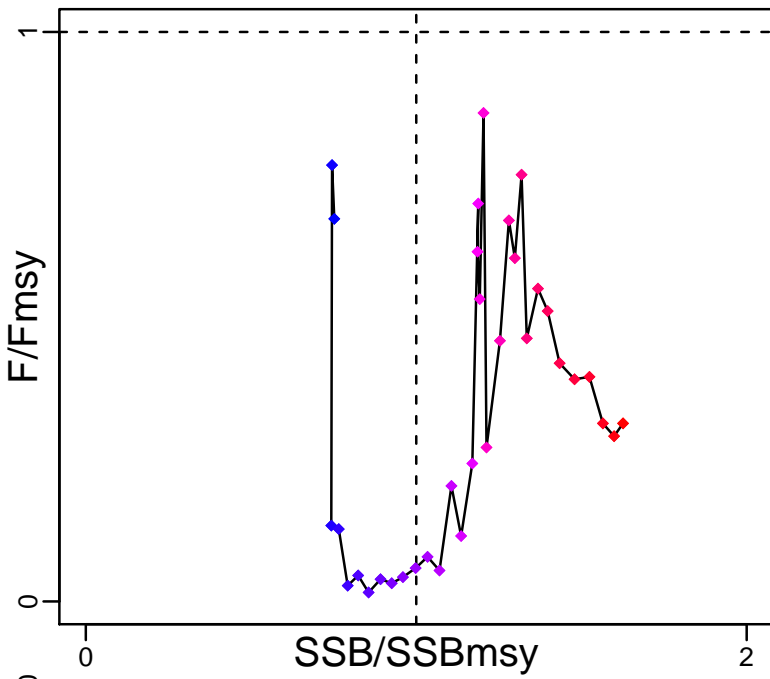
Metadata	
Scientific Name	Sebastes polypsinis
Current Assess ID	AFSC-NROCKBSAI-1977-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	50,547
Fmsy	Fmsy-pr-1/yr	2011	0.071
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.043
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

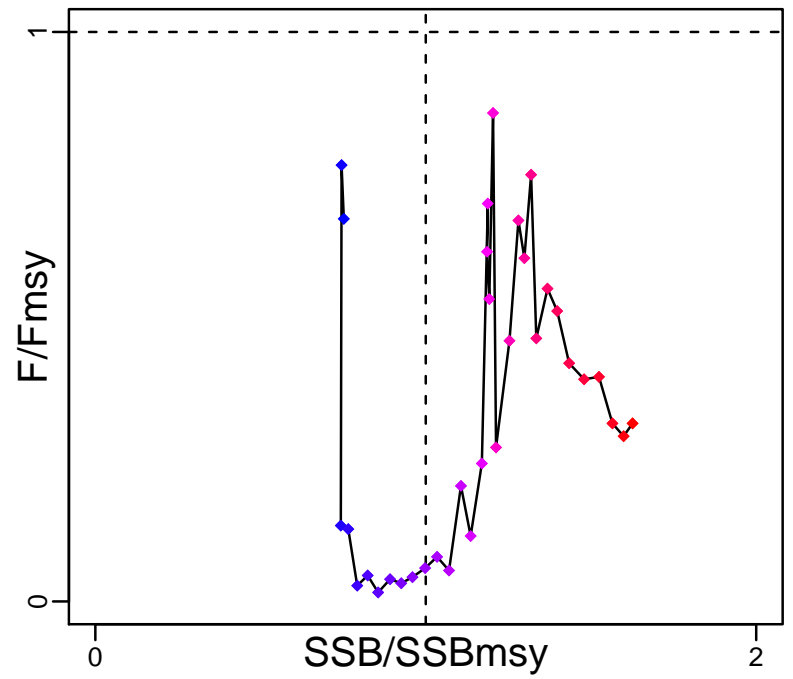
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	220,000	-	3+
SSB	SSB-MT	2015	95,600	Females	8.2+
TN	-	-	-	-	-
R	R-E00	2015	40,400,000	-	3
F	F-1/yr	2015	0.013	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2015	2340		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.891		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.313		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

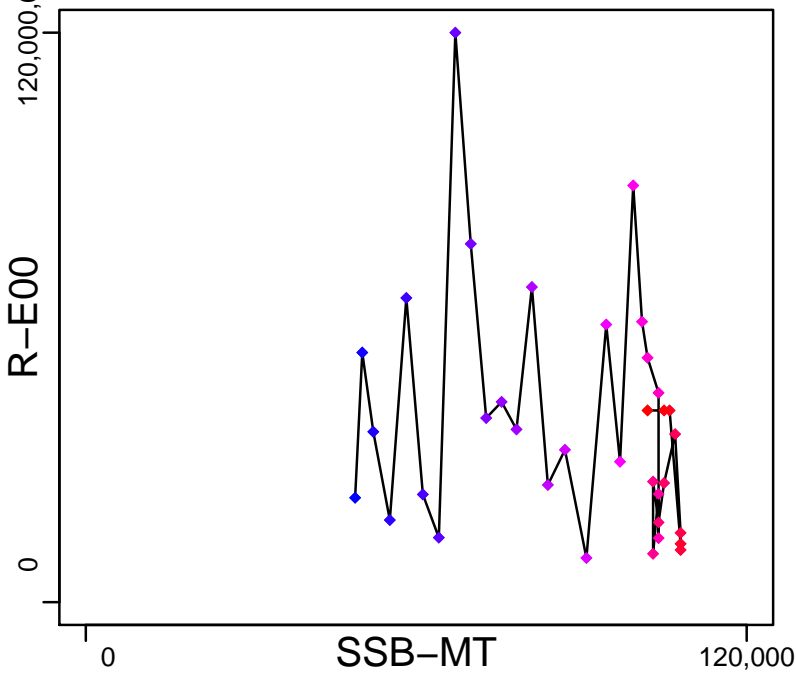
Kobe MSYpref (1974–2011–STACHURA)



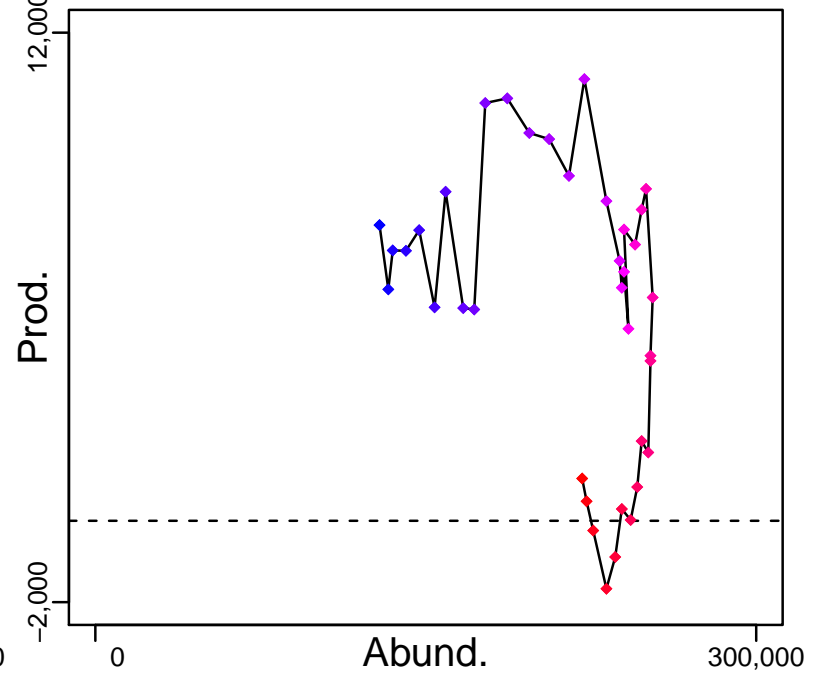
Kobe MGTpref (1974–2011–STACHURA)



Spawner Recruit (1977–2015–SISIMP2016)



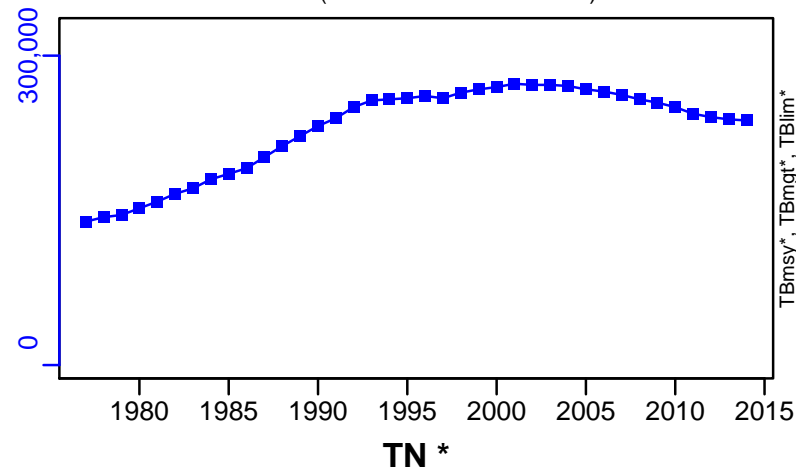
Production (1977–2015–SISIMP2016)



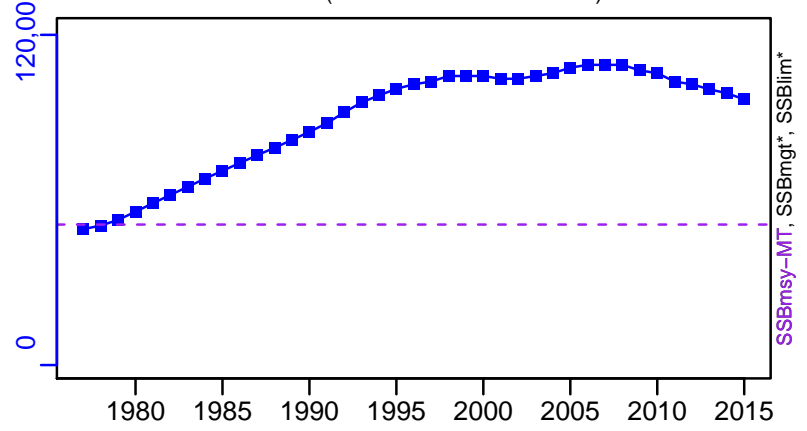
◆ Start Year ◆ End Year * No Data

Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

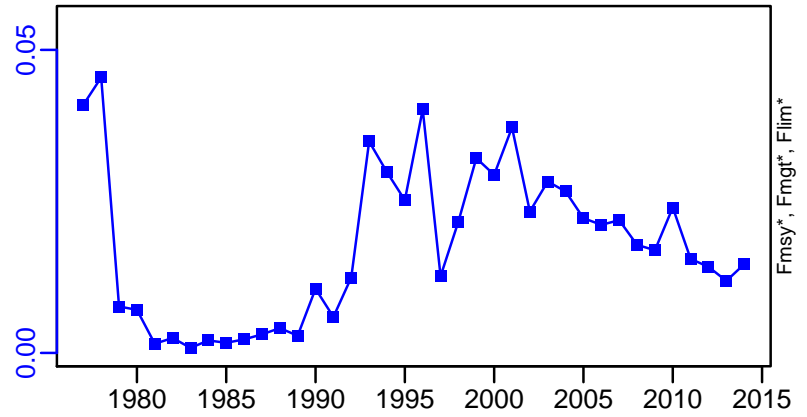
TB-MT (1977-2015-SISIMP2016)



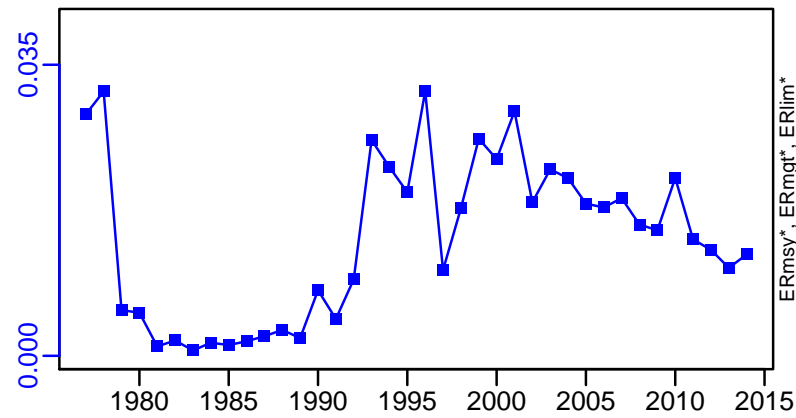
SSB-MT (1977-2015-SISIMP2016)



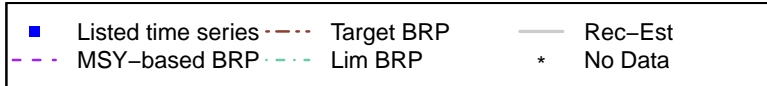
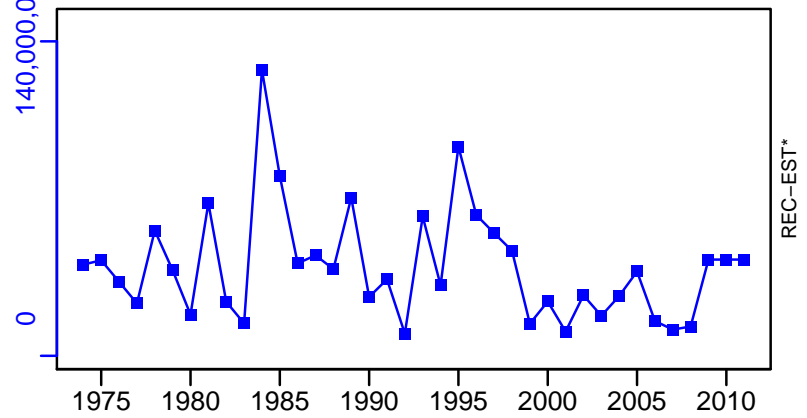
F-1/yr (1977-2015-SISIMP2016)



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



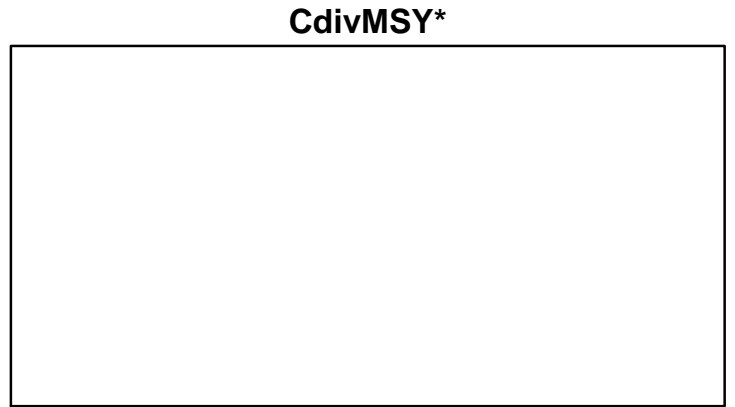
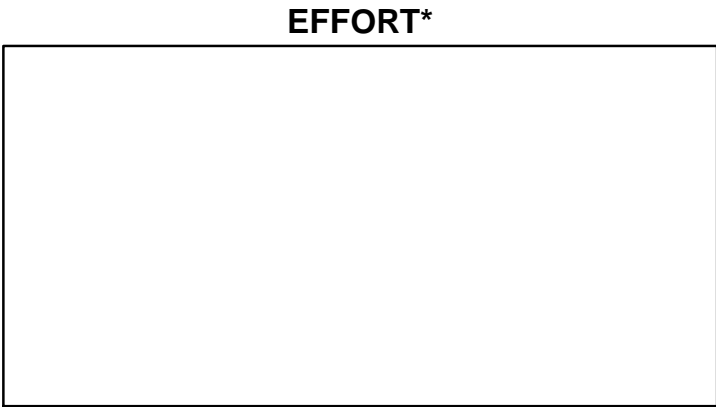
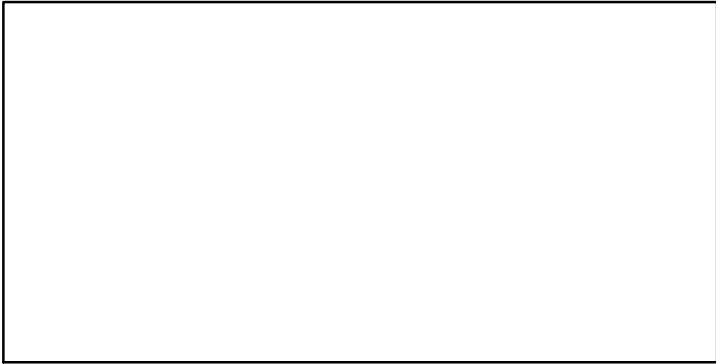
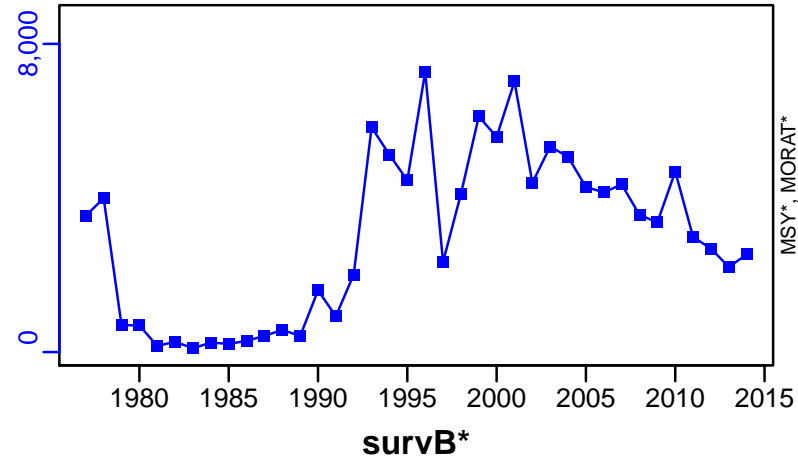
R-E00 (1977-2015-SISIMP2016)



Northern rockfish Bering Sea and Aleutian Islands [NROCKBSAI]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Northern rockfish Gulf of Alaska [NROCKGA]

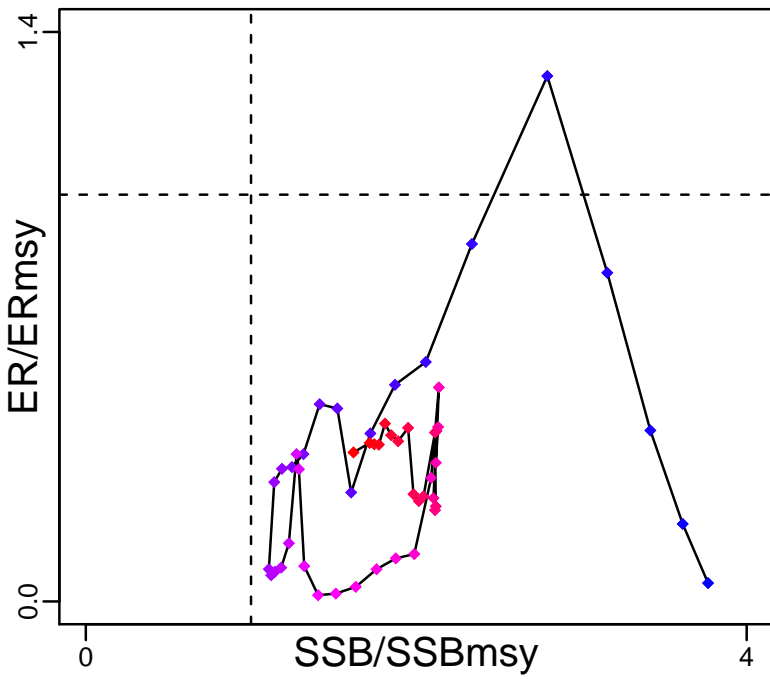
Metadata	
Scientific Name	Sebastes polypsinis
Current Assess ID	AFSC-NROCKGA-1961-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	64,270
SSBmsy	SSBmsy-MT	2015	24,485
Fmsy	Fmsy-pr-1/yr	2010	0.071
ERmsy	ERmsy-ratio	2010	0.094
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	6070
M	M-1/yr	2010	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

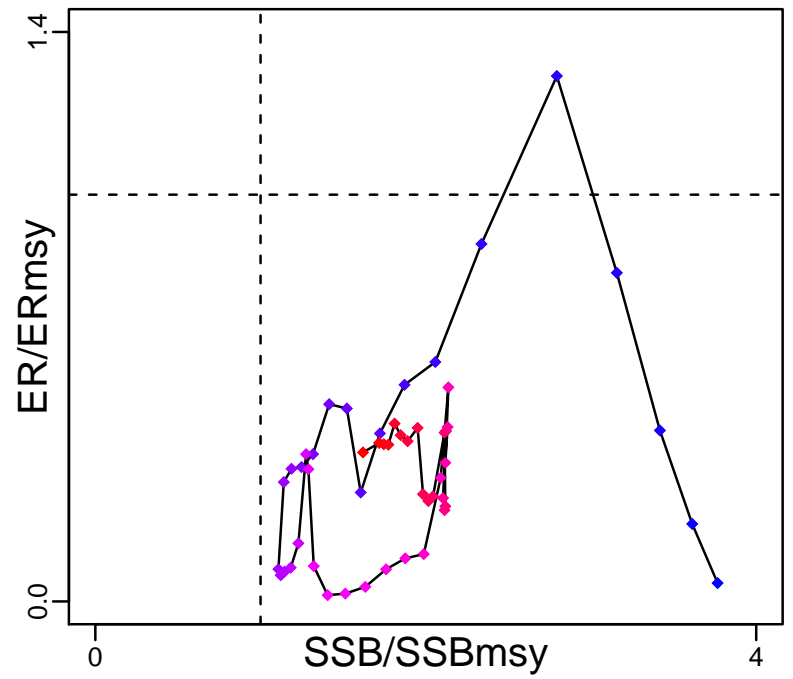
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	81,900	-	2+
SSB	SSB-MT	2015	35,400	Females	11+
TN	-	-	-	-	-
R	R-E00	2015	8,590,000	-	2
F	F-1/yr	2015	0.06	-	-
ER	ER-calc-ratio	2015	0.049	-	-
TC	TC-MT	2015	4270		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.603		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.446		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.596		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.366		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern rockfish Gulf of Alaska [NROCKGA]

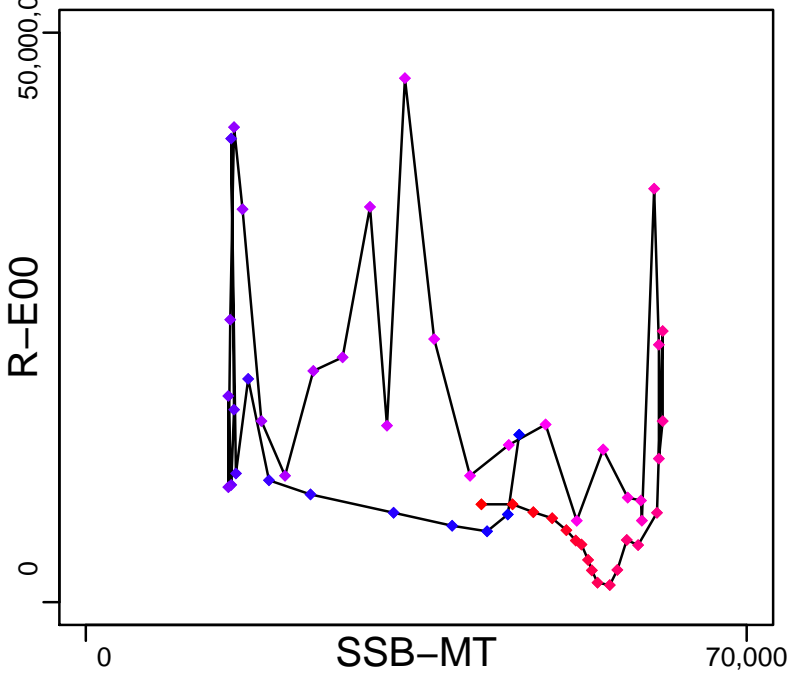
Kobe MSYpref (1959–2010–STACHURA)



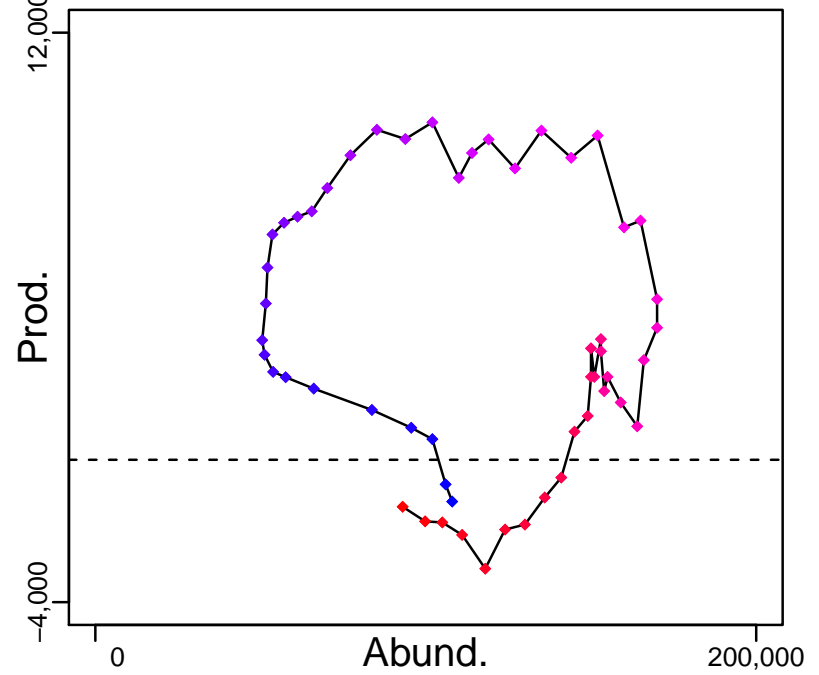
Kobe MGTpref (1959–2010–STACHURA)



Spawner Recruit (1961–2015–SISIMP2016)



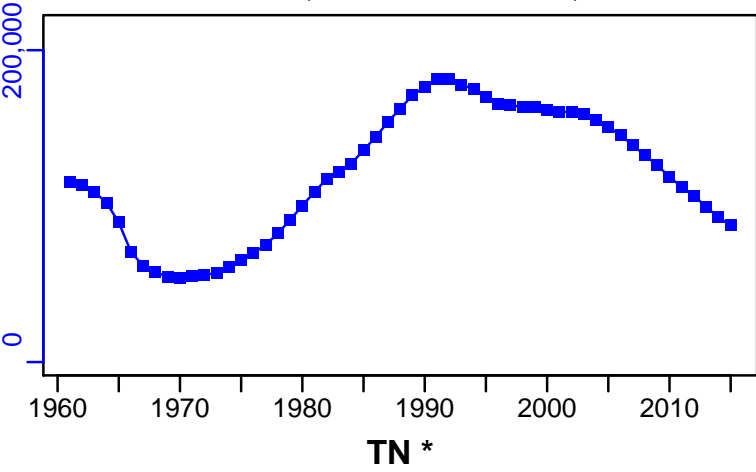
Production (1961–2015–SISIMP2016)



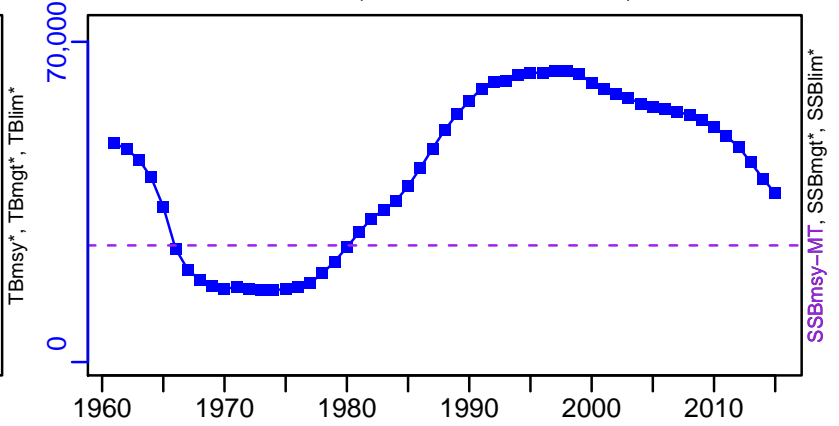
◆ Start Year ◆ End Year * No Data

Northern rockfish Gulf of Alaska [NROCKGA]

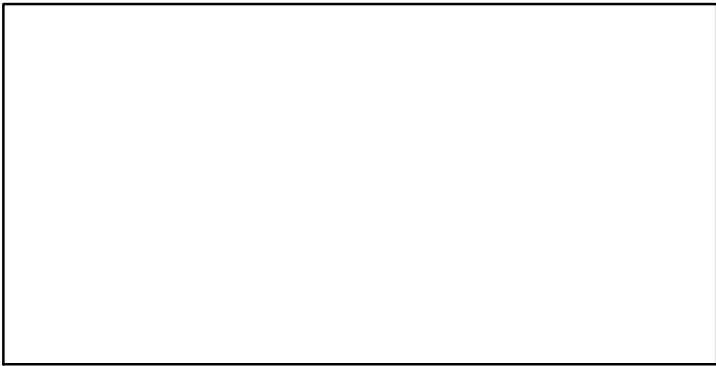
TB-MT (1961–2015–SISIMP2016)



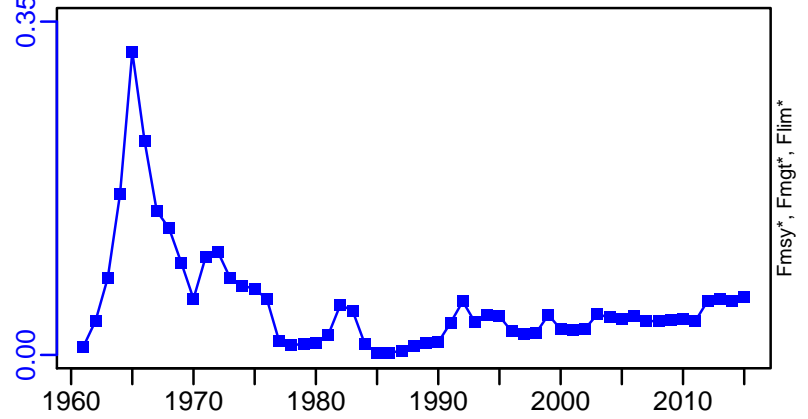
SSB-MT (1961–2015–SISIMP2016)



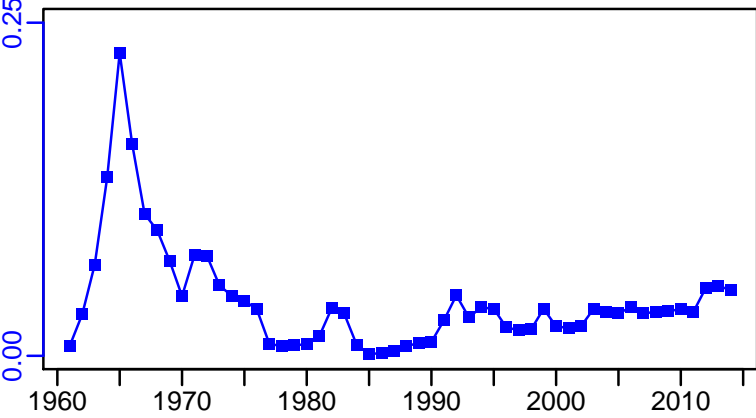
TN *



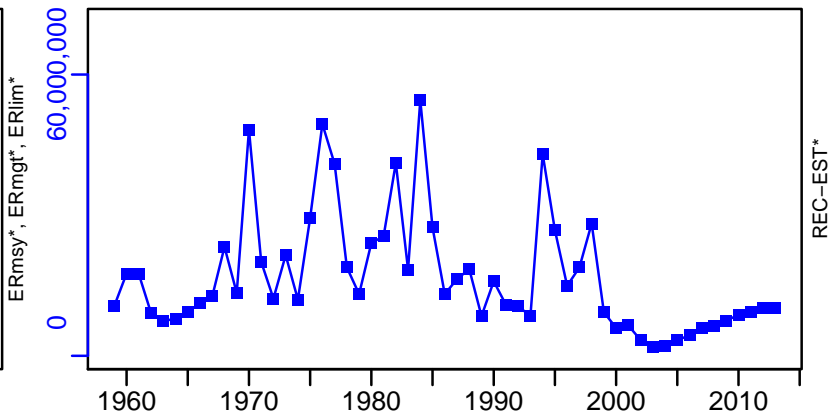
F-1/yr (1961–2015–SISIMP2016)



ER-calc-ratio (1961–2015–SISIMP2016)

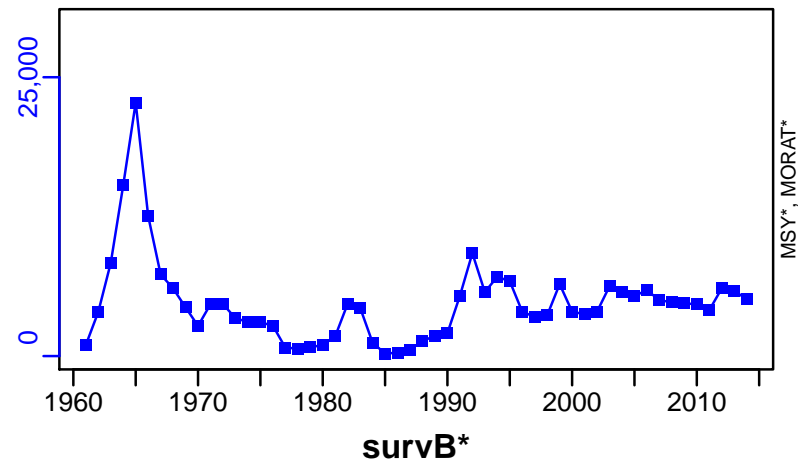


R-E00 (1961–2015–SISIMP2016)



Northern rockfish Gulf of Alaska [NROCKGA]

TC-MT, TL*, RecC* (1961-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



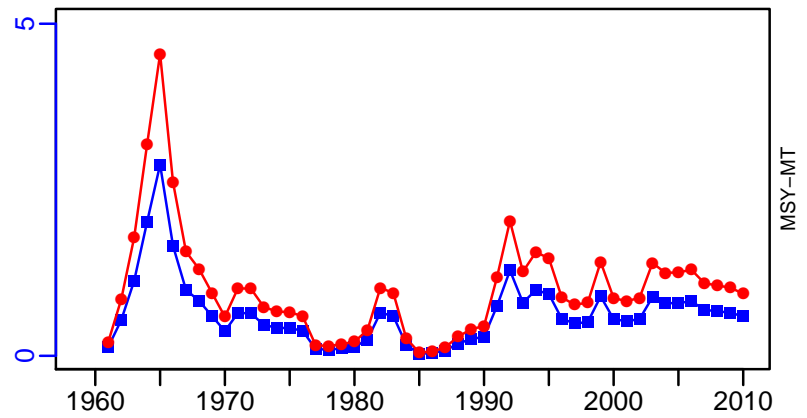
CPUE*



EFFORT*



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



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

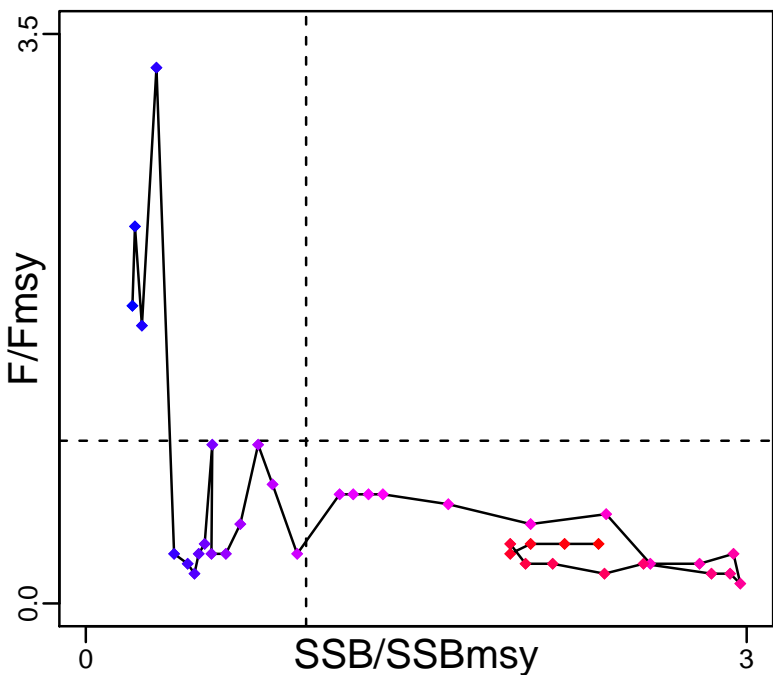
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEEBSAI-1975-2015-SISIMP2016
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2012, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	257,000
Fmsy	Fmsy-pr-1/yr	2012	0.164
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	259,310
M	M-1/yr	2012	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

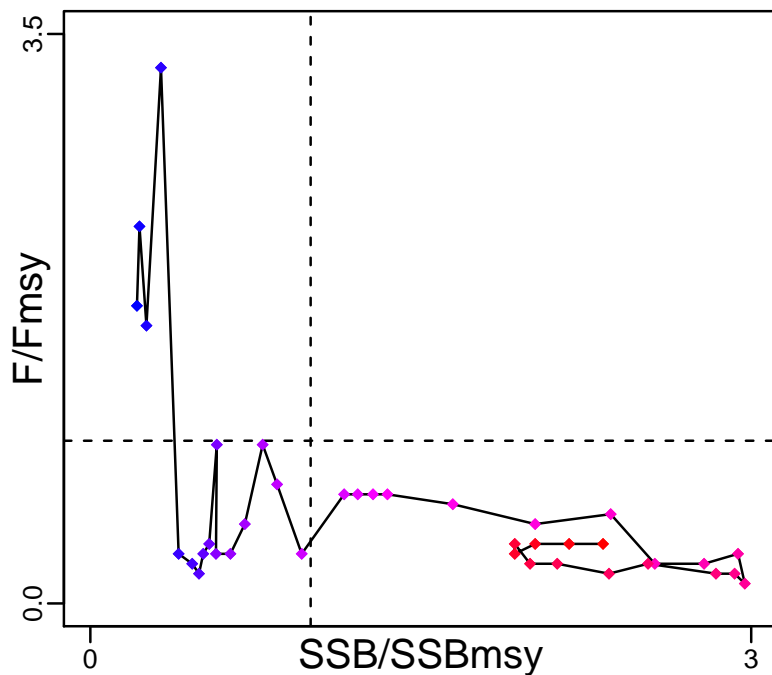
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,270,000	-	2+
SSB	SSB-MT	2015	611,000	Females	7.8+
TN	-	-	-	-	-
R	R-E00	2015	1,210,000	-	1
F	F-1/yr	2015	0.046	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2015	51,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.377		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2012	0.366		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

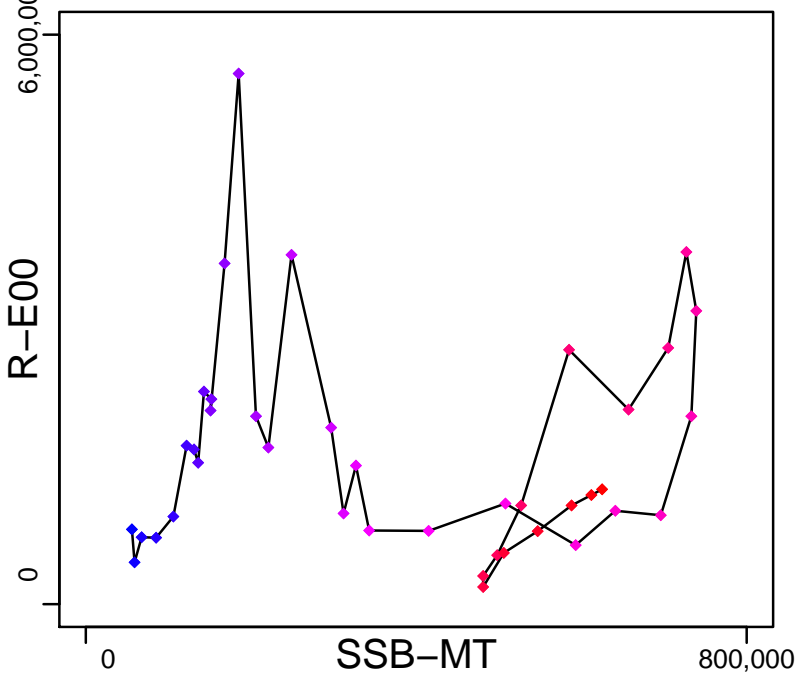
Kobe MSYpref (1975–2012–HIVELY)



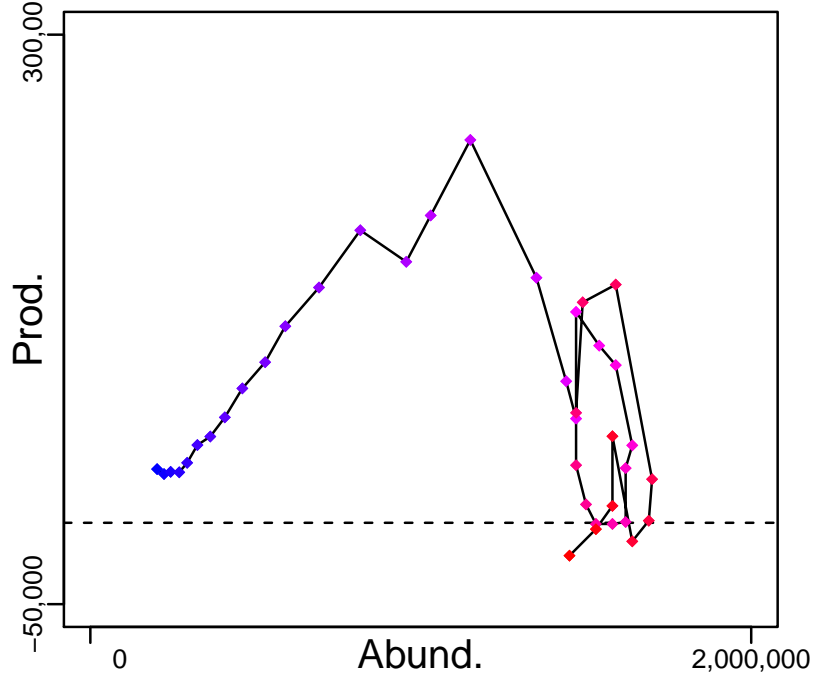
Kobe MGTpref (1975–2012–HIVELY)



Spawner Recruit (1975–2015–SISIMP2016)



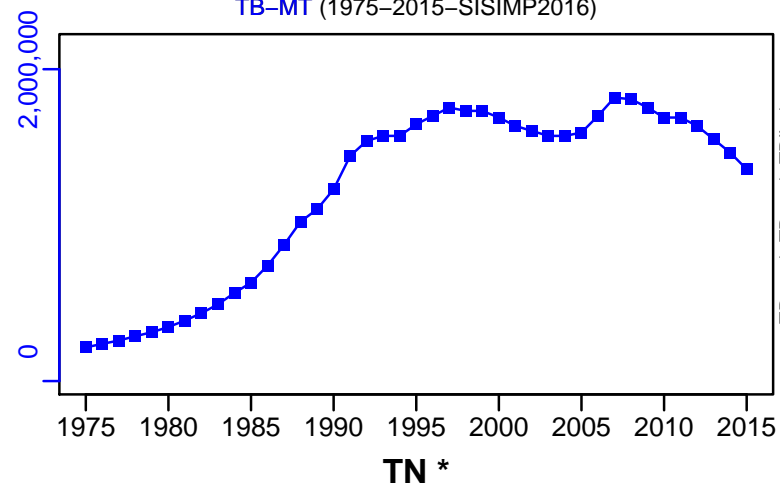
Production (1975–2015–SISIMP2016)



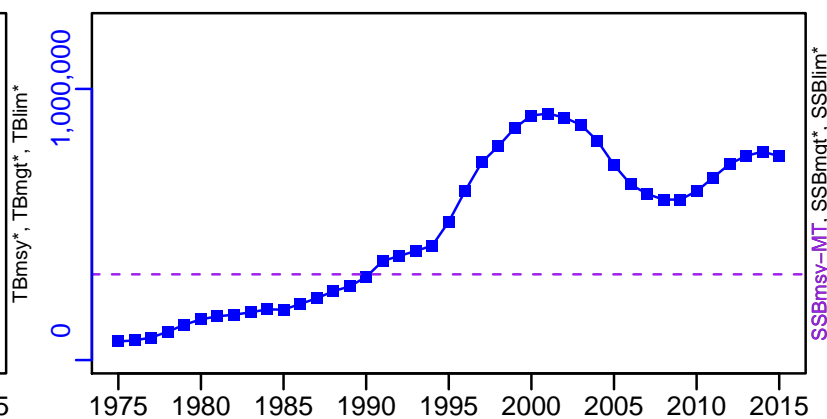
◆ Start Year ◆ End Year * No Data

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

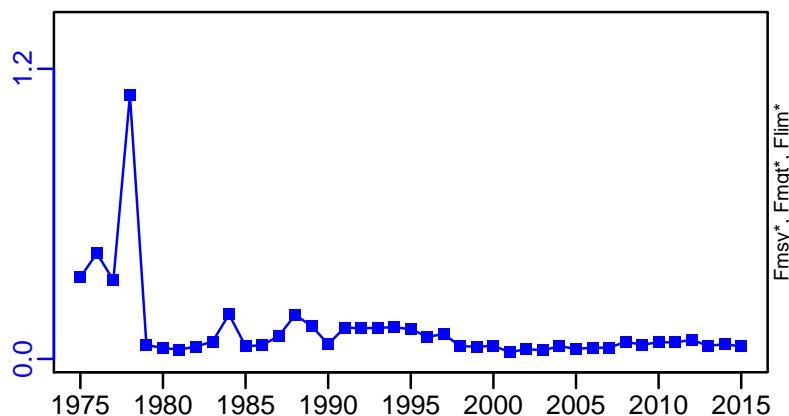
TB-MT (1975-2015-SISIMP2016)



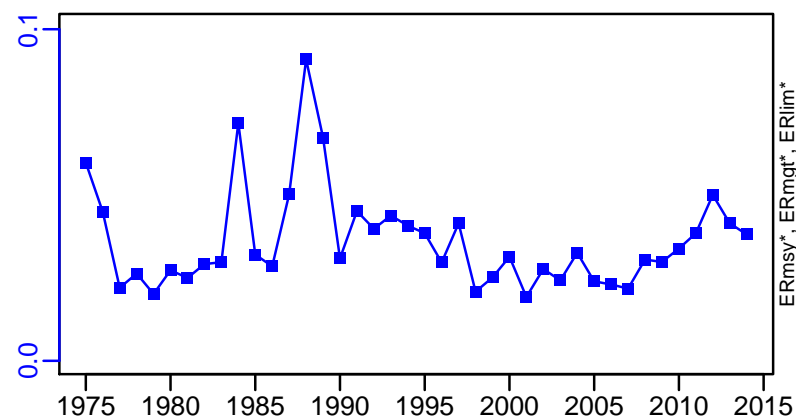
SSB-MT (1975-2015-SISIMP2016)



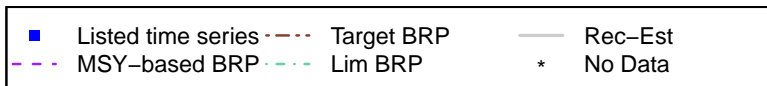
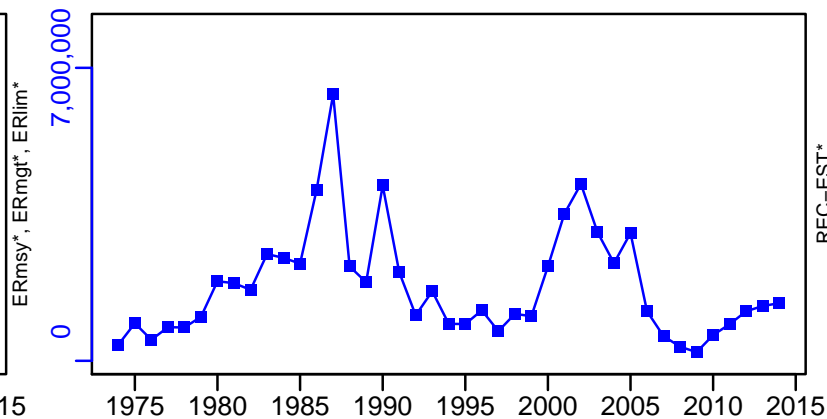
F-1/yr (1975-2015-SISIMP2016)



ER-calc-ratio (1975-2015-SISIMP2016)

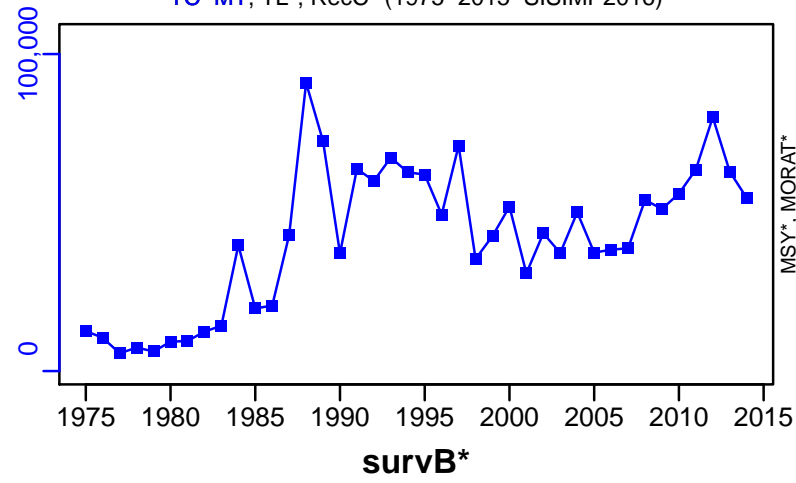


R-E00 (1975-2015-SISIMP2016)



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

TC-MT, TL*, RecC* (1975-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



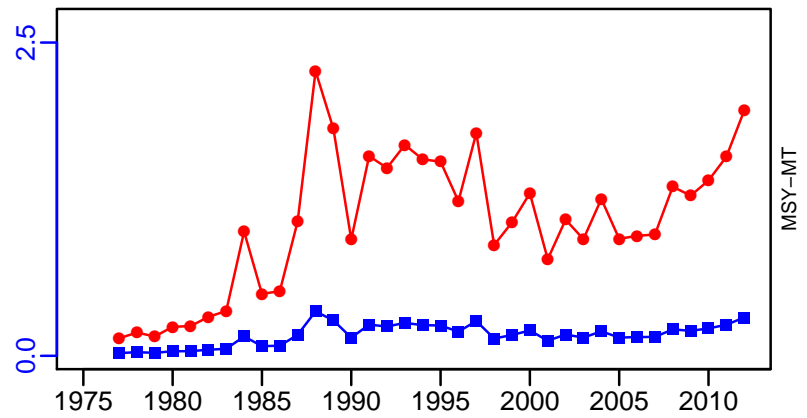
CPUE*



EFFORT*



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



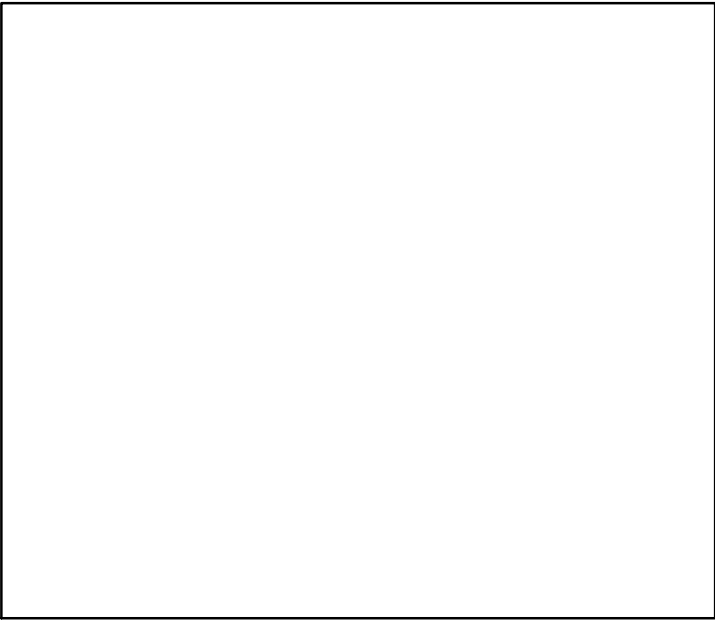
Northern rock sole Gulf of Alaska [NRSOLEGA]

Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEGA-1977-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

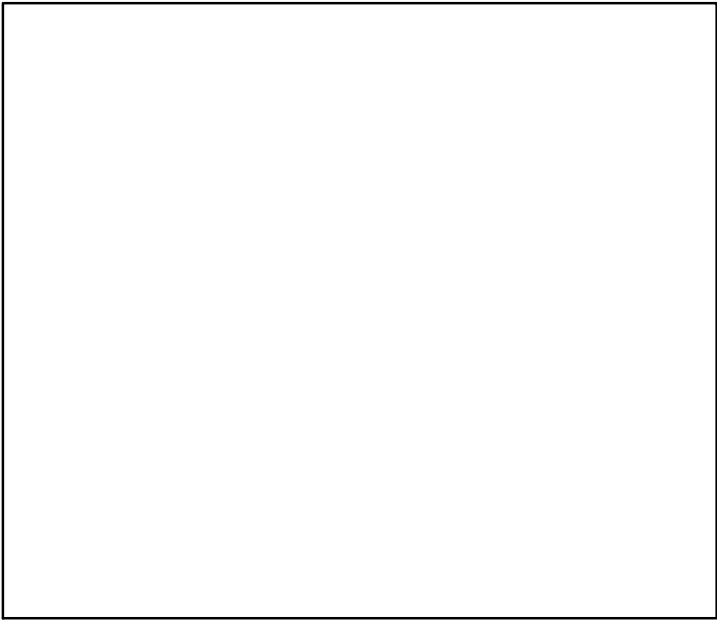
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	18,100
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	75,600	-	3+
SSB	SSB-MT	2015	39,500	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1.1×10^8	-	0
F	F-1/yr	2015	0.022	-	-
ER	ER-calc-ratio	2015	0.023	-	-
TC	TC-MT	2015	1720		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.182		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

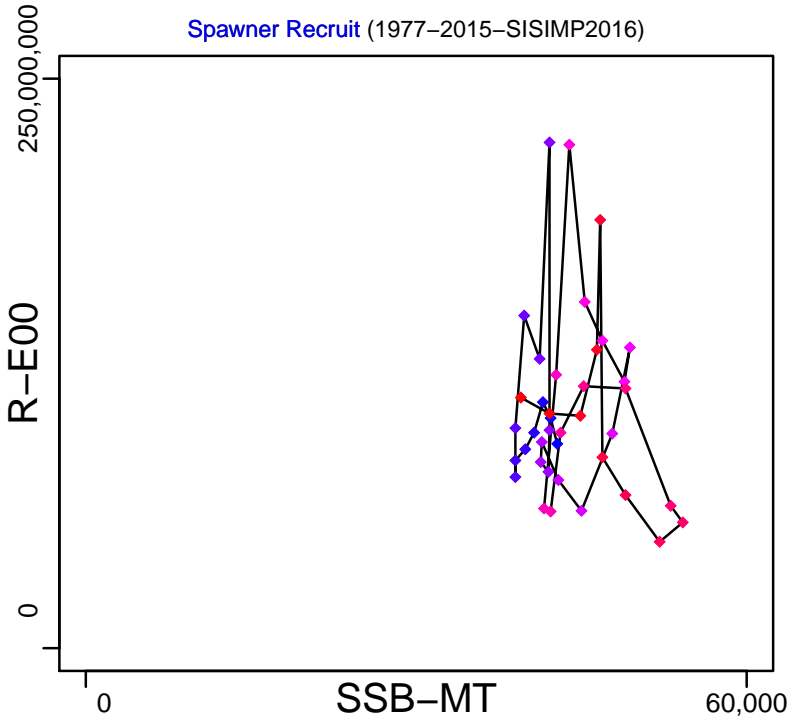
Kobe MSY*



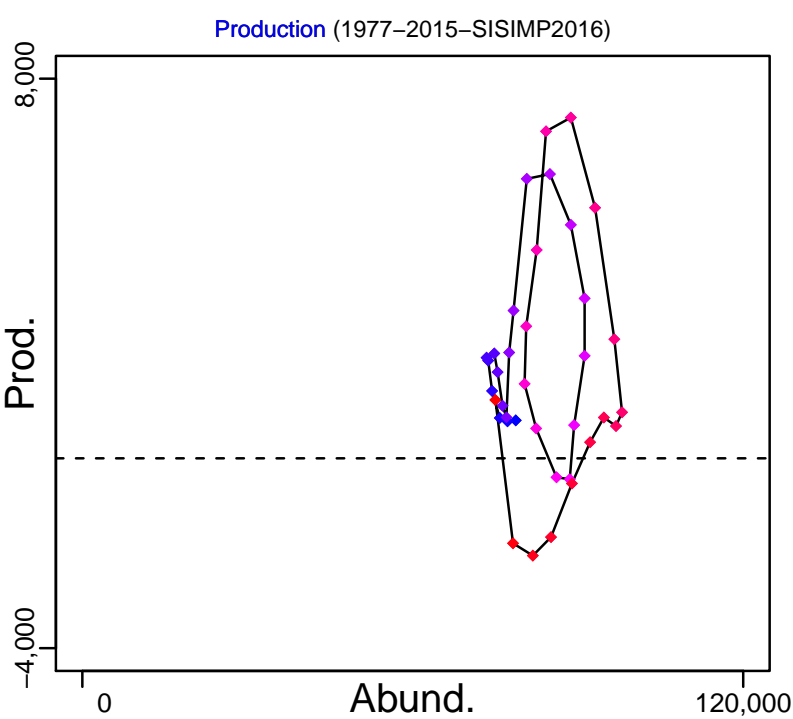
Kobe MGT*



Spawner Recruit (1977–2015–SISIMP2016)



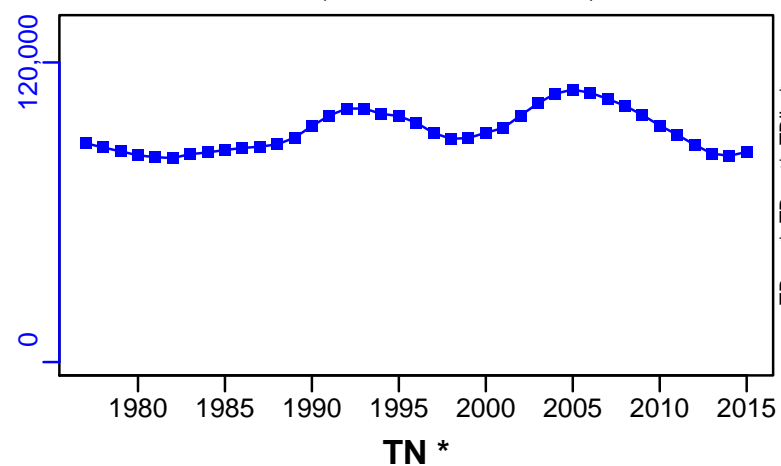
Production (1977–2015–SISIMP2016)



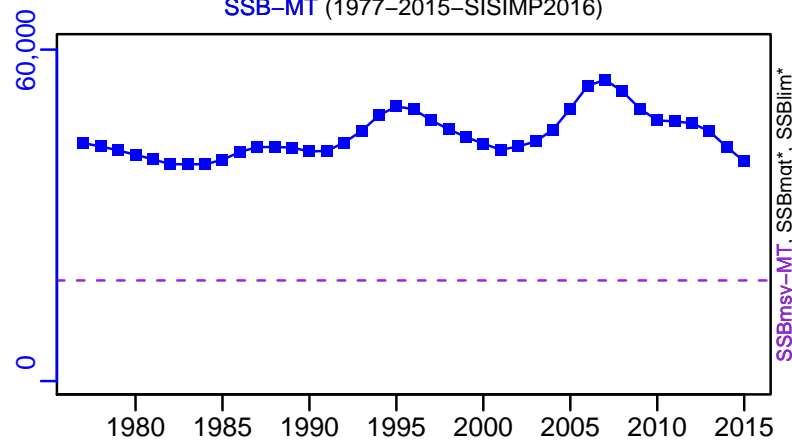
◆ Start Year ◆ End Year * No Data

Northern rock sole Gulf of Alaska [NRSOLEGA]

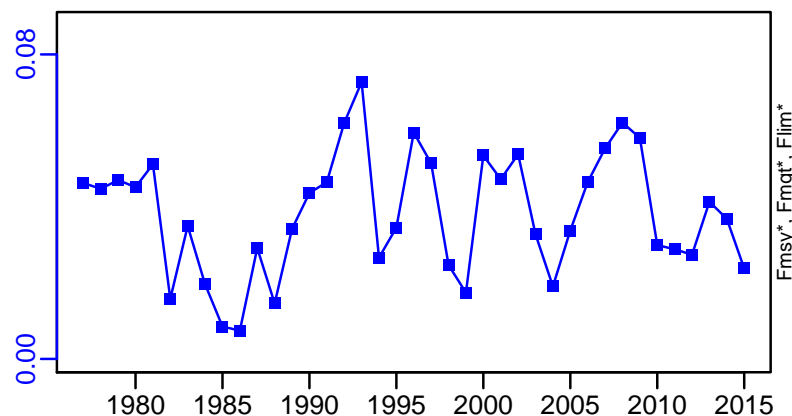
TB-MT (1977-2015-SISIMP2016)



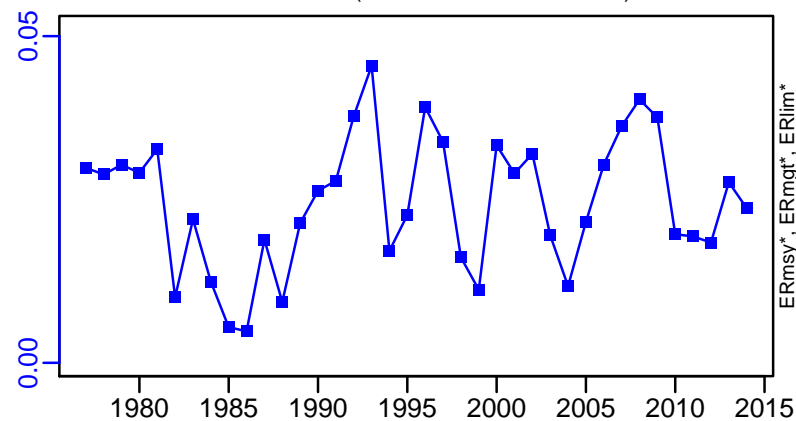
SSB-MT (1977-2015-SISIMP2016)



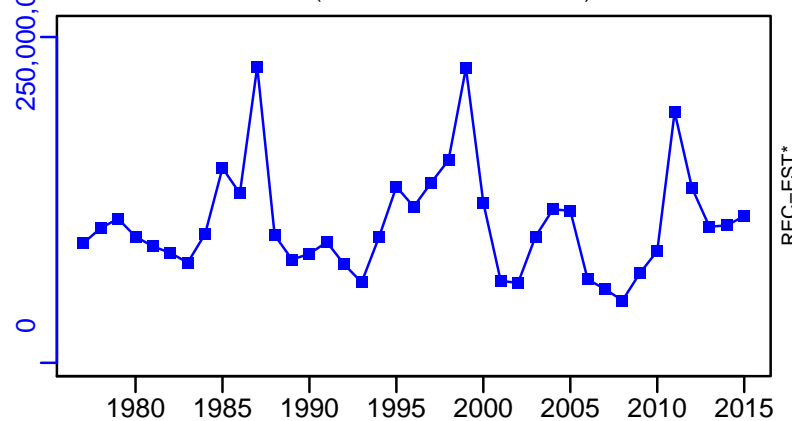
F-1/yr (1977-2015-SISIMP2016)



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

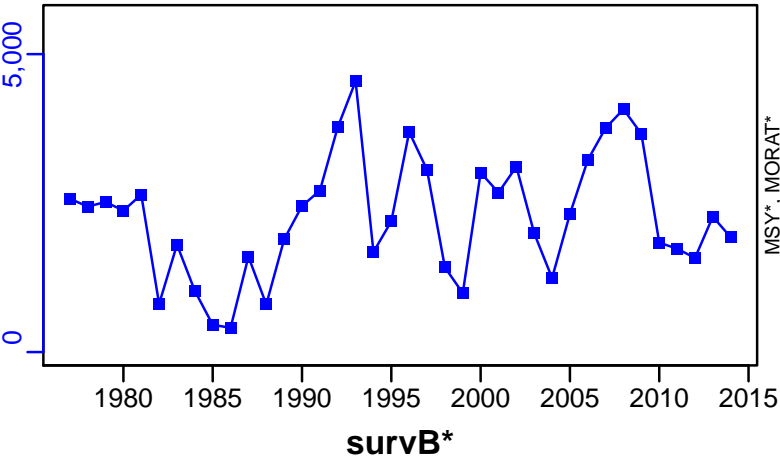


R-E00 (1977-2015-SISIMP2016)



Northern rock sole Gulf of Alaska [NRSOLEGA]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



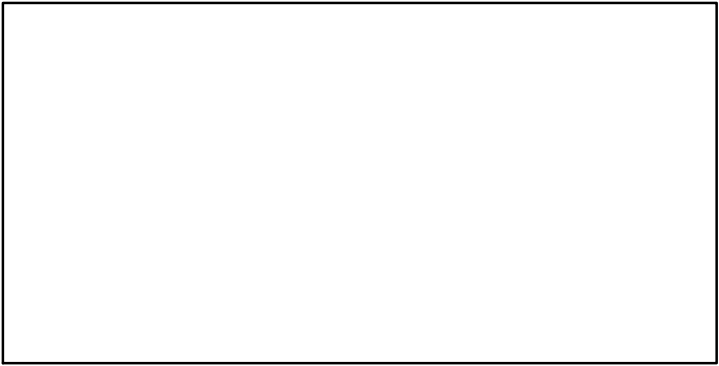
CPUE*



EFFORT*



CdivMSY*

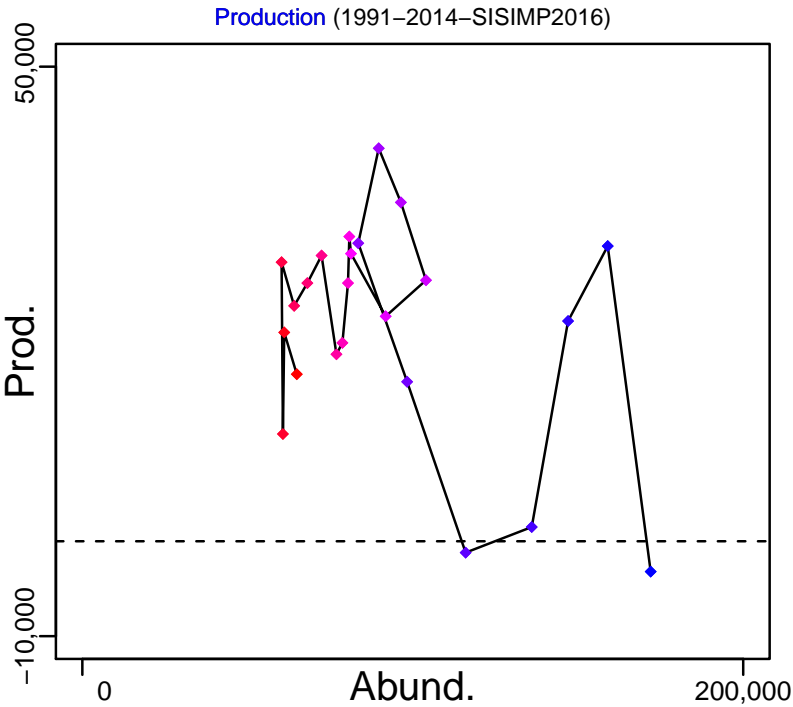


Pacific cod Aleutian Islands [PCODAI]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODAI-1991-2014-SISIMP2016
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	68,900	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.154	-	-
TC	TC-MT	2014	10,600		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

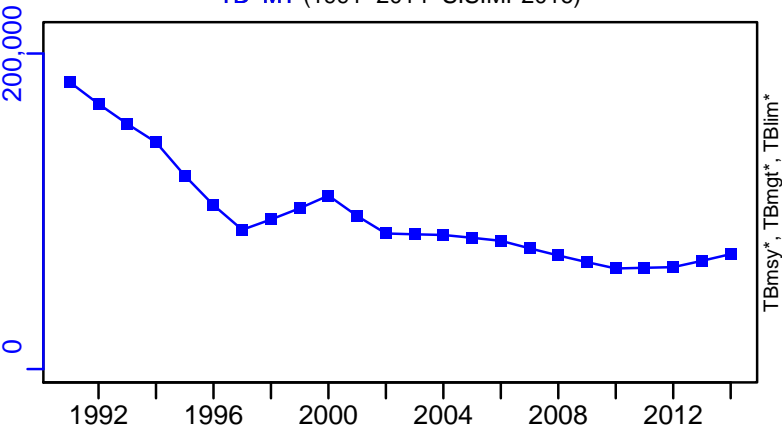


◆ Start Year ◆ End Year * No Data

Pacific cod Aleutian Islands [PCODAI]

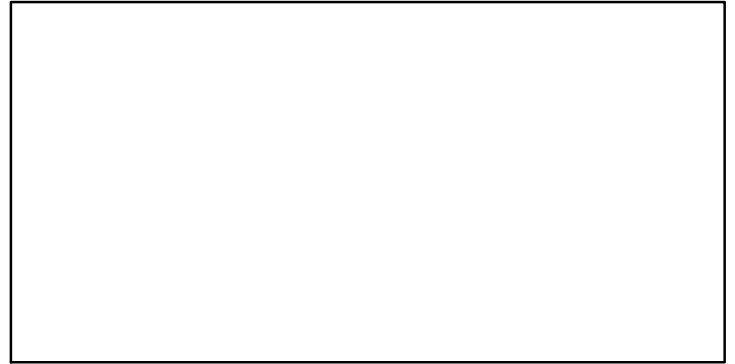
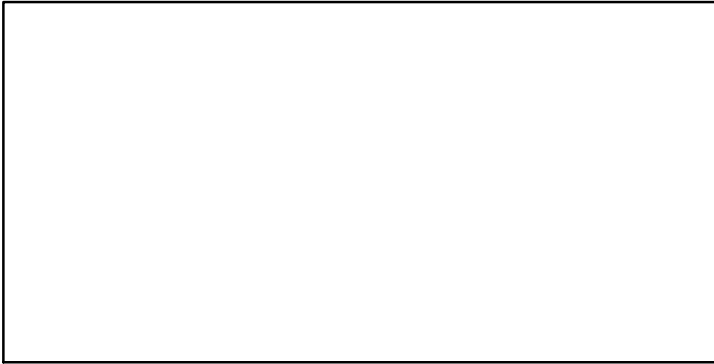
TB-MT (1991-2014-SISIMP2016)

SSB*



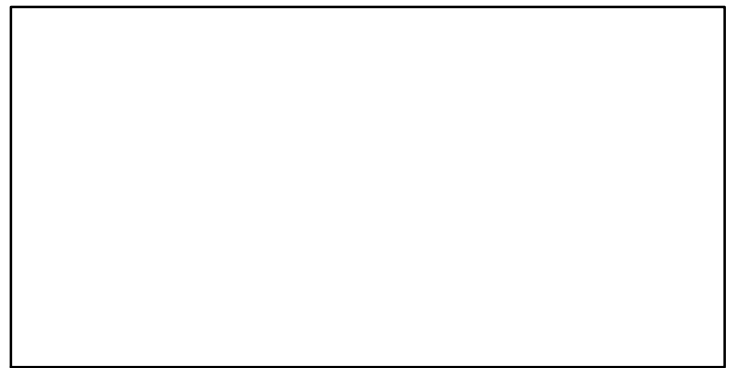
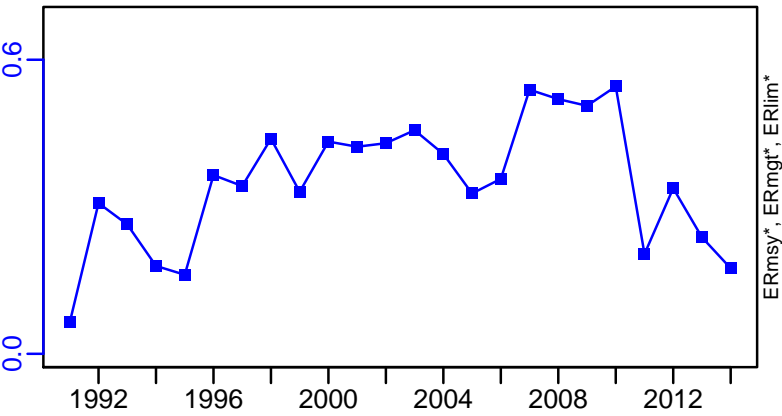
TN *

F*



ER-calc-ratio (1991-2014-SISIMP2016)

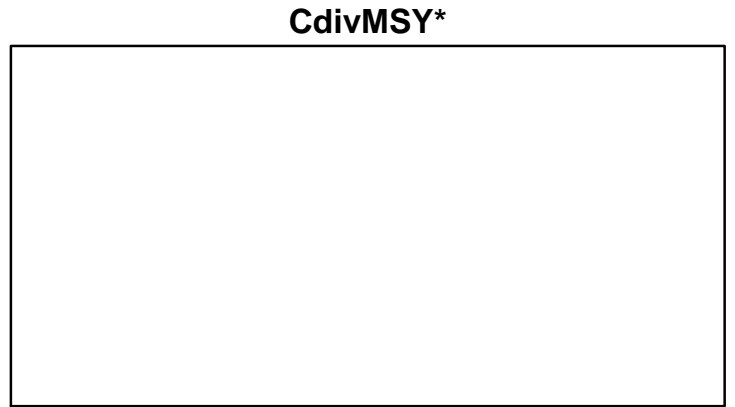
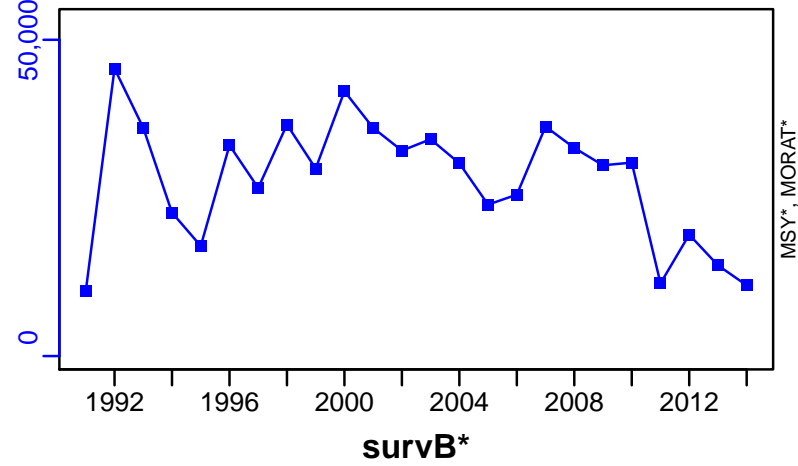
Recruits*



Pacific cod Aleutian Islands [PCODAI]

TC-MT, TL*, RecC* (1991-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



Pacific cod Bering Sea [PCODBS]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODBS-1977-2015-SISIMP2016
Area	Bering Sea
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-MT	2015	282,000
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	2015	1,670,000	-	0+
SSB	SSB-MT	2015	402,000	Females	4.9+
TN	-	-	-	-	-
R	R-E00	2015	5.38×10^8	-	0
F	F-1/yr	2015	0.247	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2015	239,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.426		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod Bering Sea [PCODBS]

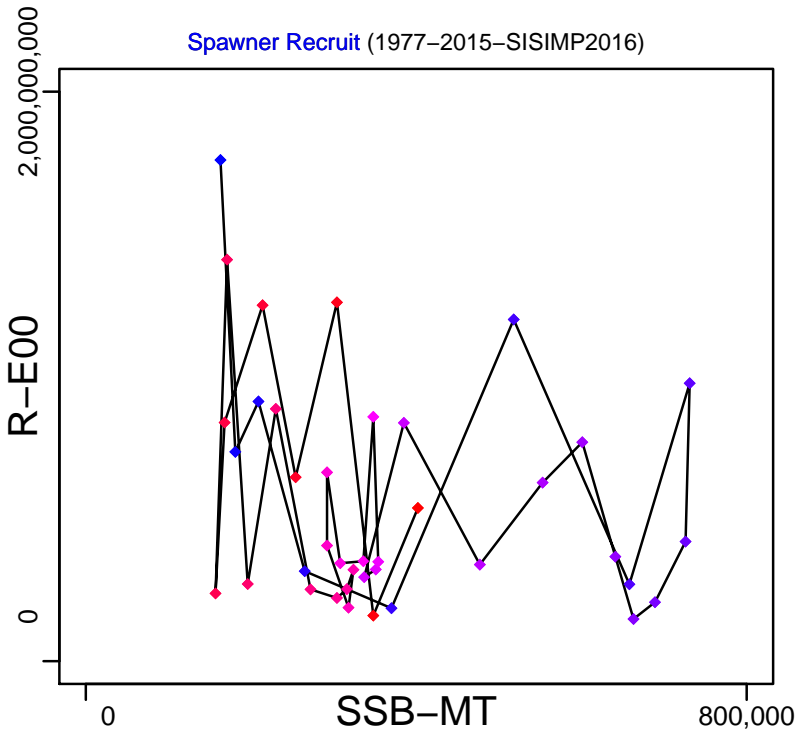
Kobe MSY*



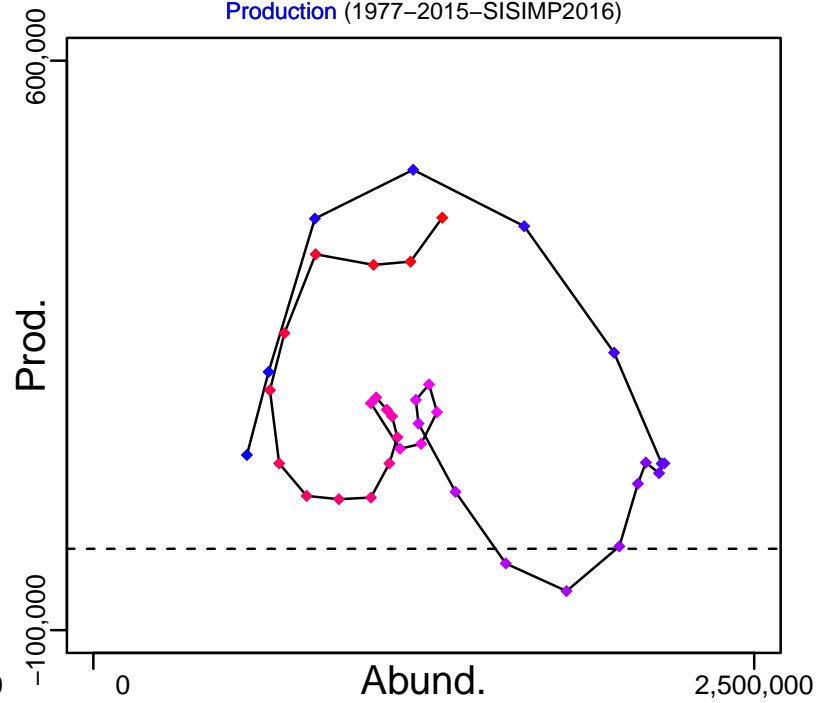
Kobe MGT*



Spawner Recruit (1977–2015–SISIMP2016)



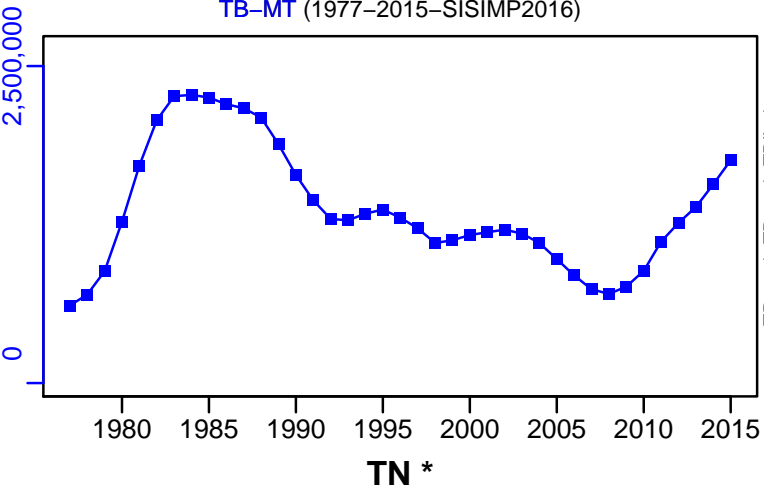
Production (1977–2015–SISIMP2016)



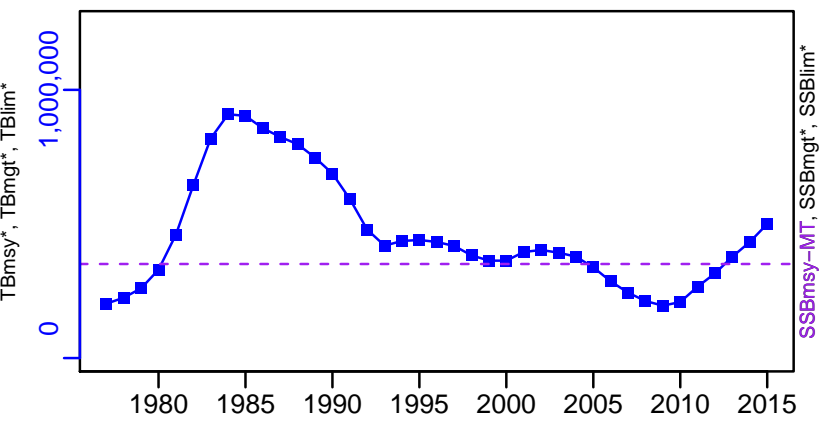
◆ Start Year ◆ End Year * No Data

Pacific cod Bering Sea [PCODBS]

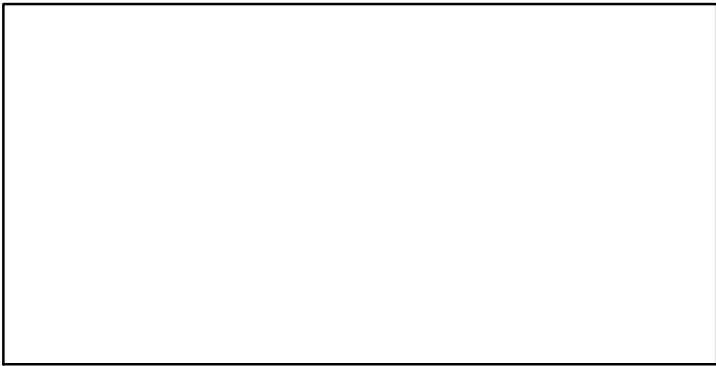
TB-MT (1977-2015-SISIMP2016)



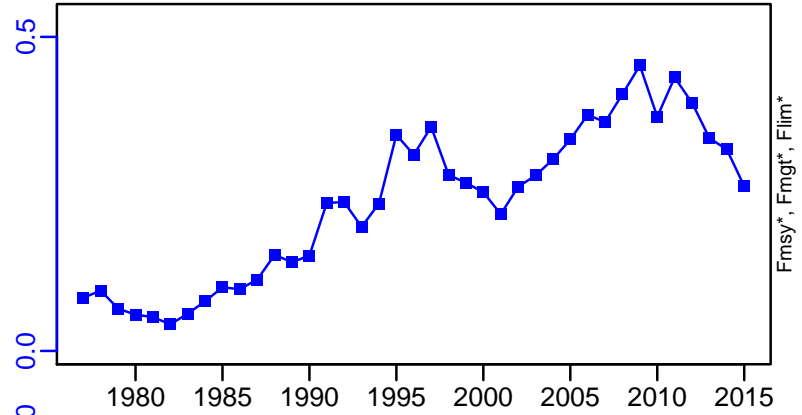
SSB-MT (1977-2015-SISIMP2016)



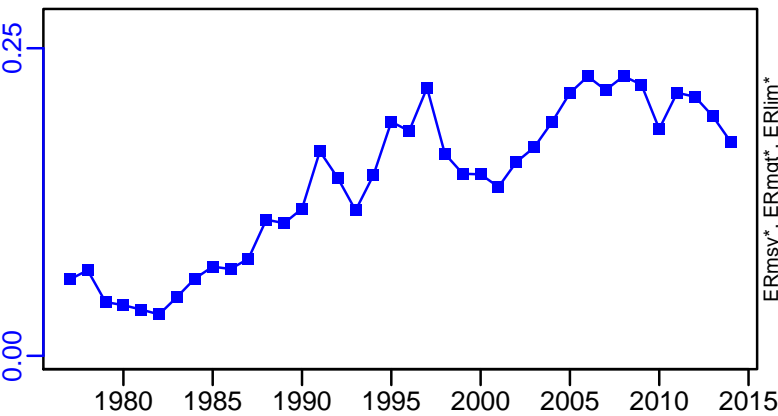
TN *



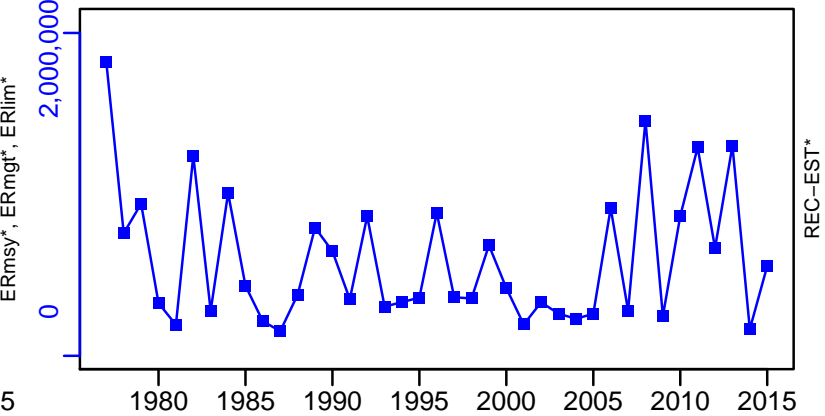
F-1/yr (1977-2015-SISIMP2016)



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

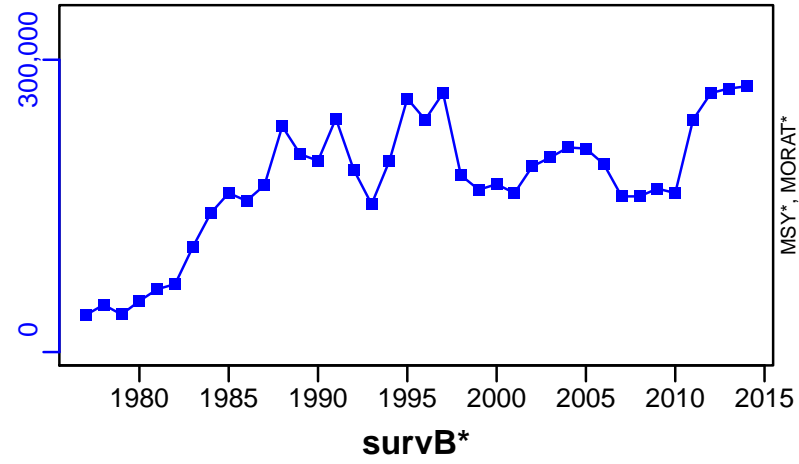


R-E00 (1977-2015-SISIMP2016)



Pacific cod Bering Sea [PCODBS]

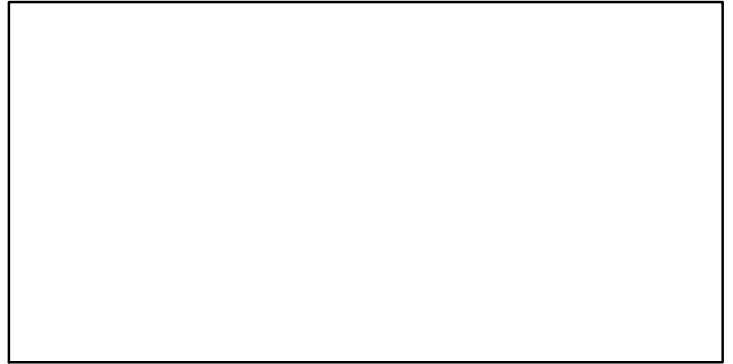
TC-MT, TL*, RecC* (1977-2015-SISIMP2016)



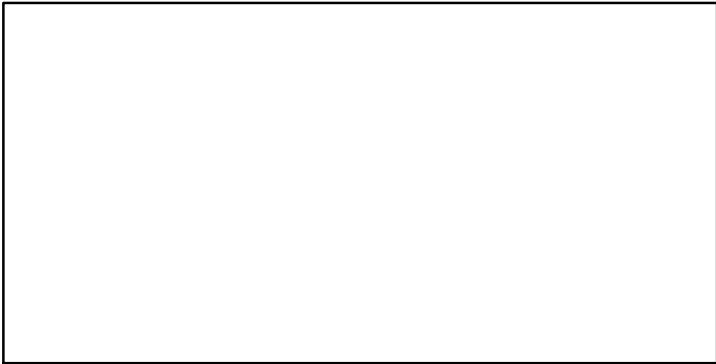
TAC*, Cpair*, Cadv*



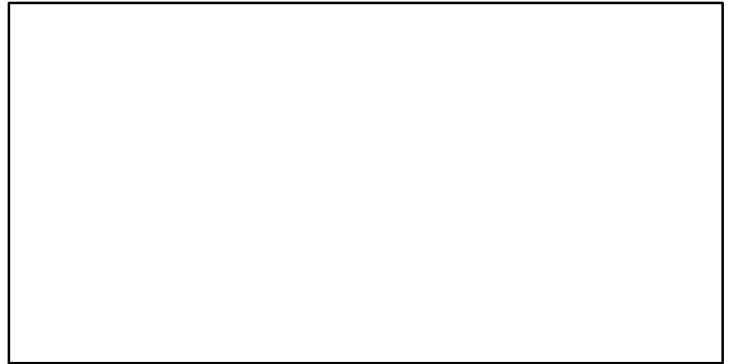
CPUE*



EFFORT*



CdivMSY*



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

Pacific cod Gulf of Alaska [PCODGA]

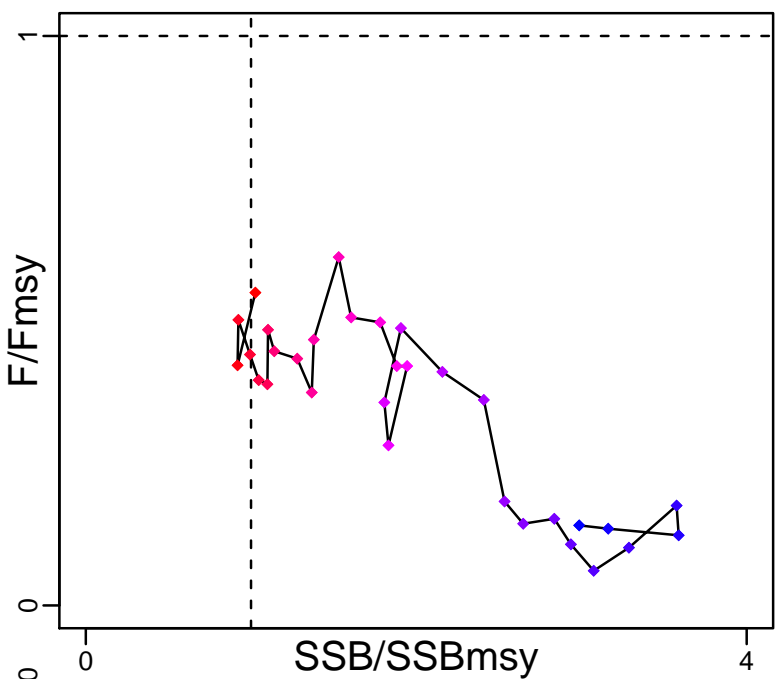
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODGA-1977-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	113,800
Fmsy	Fmsy-pr-1/yr	2014	0.69
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	91,100
Fmgt	Fmgt-1/yr	2014	0.54
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2014	0.38
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

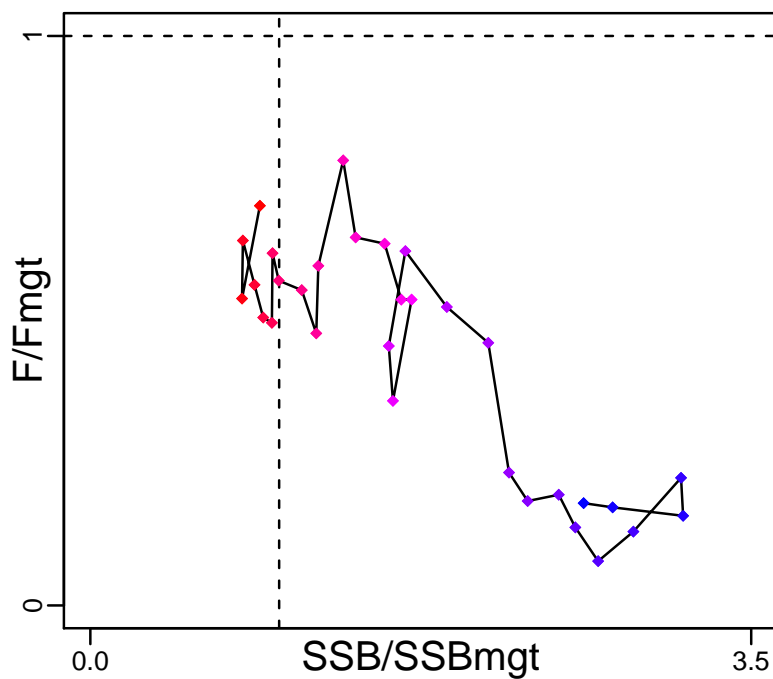
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	640,000	-	3+
SSB	SSB-MT	2015	203,000	Females	4.3+
TN	-	-	-	-	-
R	R-E00	2015	3.57×10^8	-	0
F	F-1/yr	2015	0.108	-	-
ER	ER-calc-ratio	2015	0.125	-	-
TC	TC-MT	2015	84,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.784		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2014	0.549		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.614		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	0.702		
ER/ERmgt	-	-	-		

Pacific cod Gulf of Alaska [PCODGA]

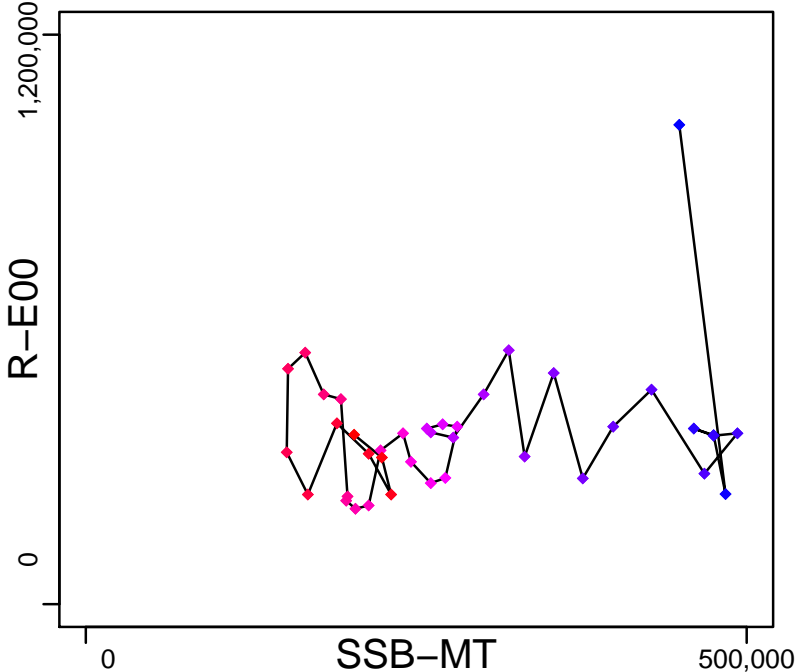
Kobe MSYpref (1977–2014–HIVELY)



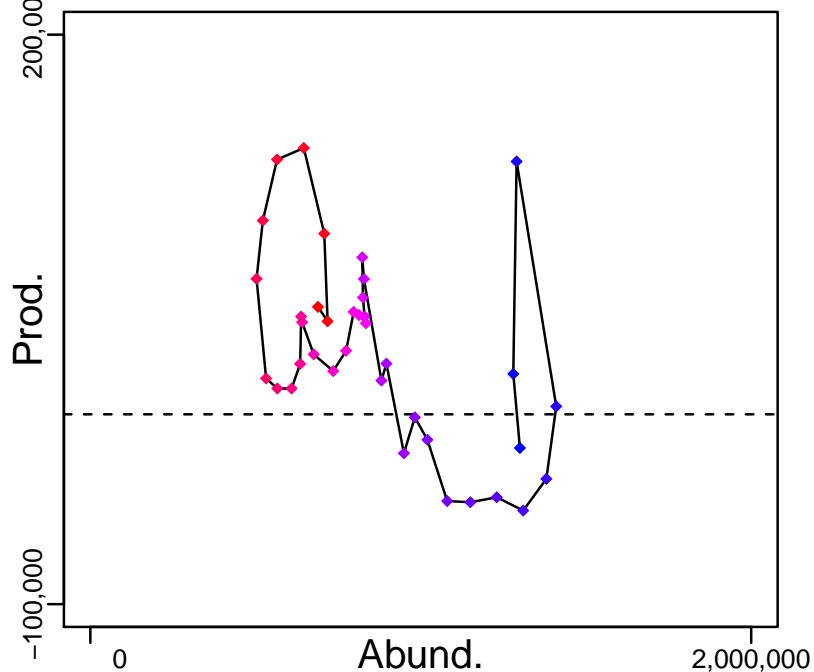
Kobe MGTpref (1977–2014–HIVELY)



Spawner Recruit (1977–2015–SISIMP2016)



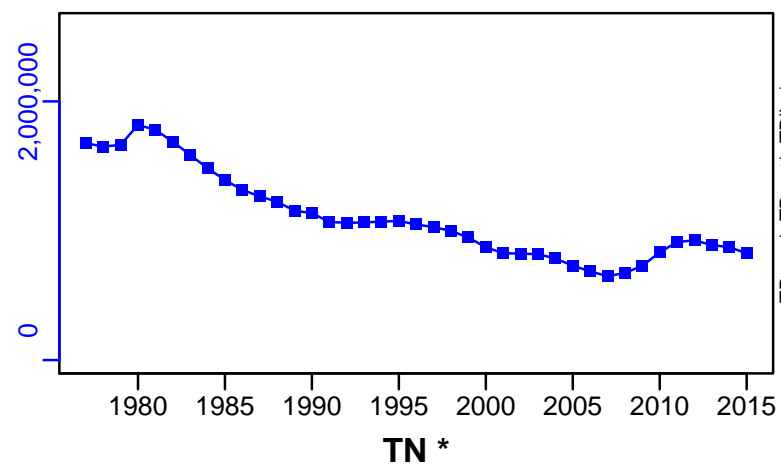
Production (1977–2015–SISIMP2016)



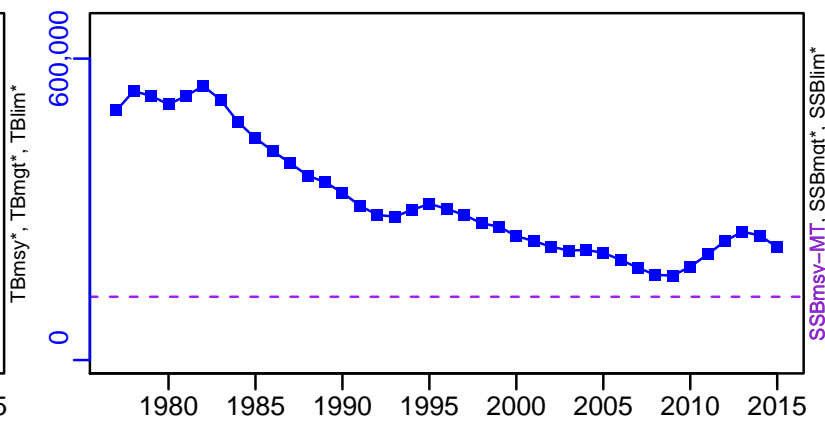
◆ Start Year ◆ End Year * No Data

Pacific cod Gulf of Alaska [PCODGA]

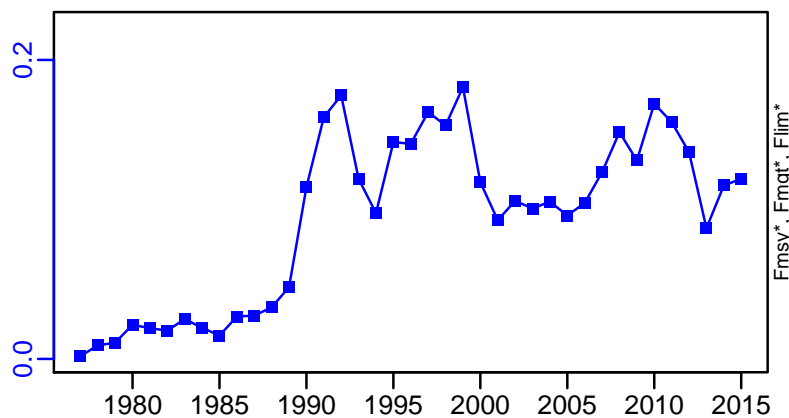
TB-MT (1977-2015-SISIMP2016)



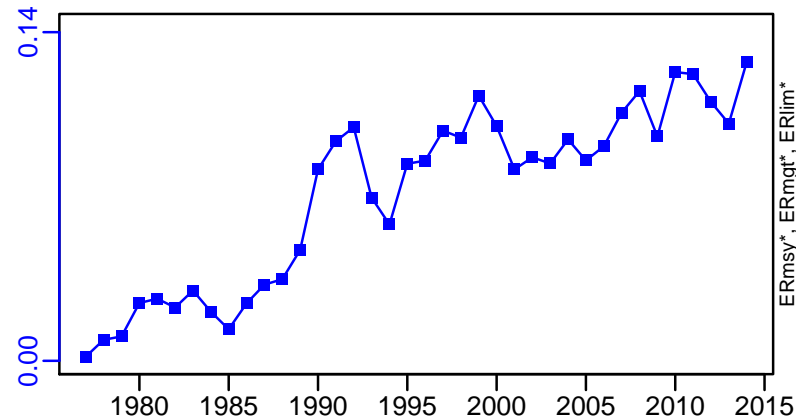
SSB-MT (1977-2015-SISIMP2016)



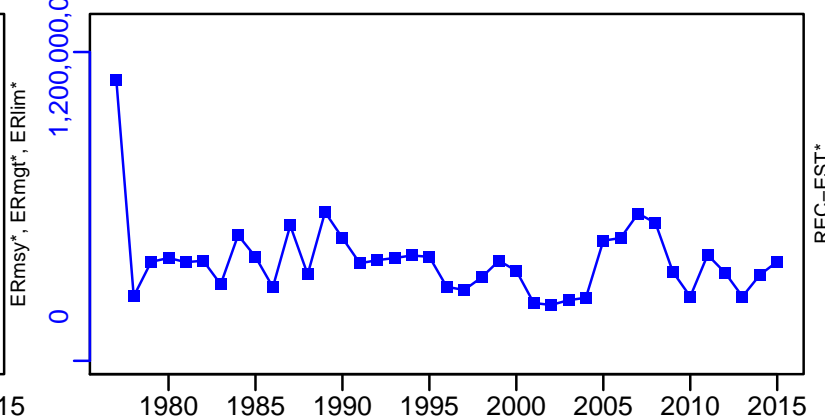
F-1/yr (1977-2015-SISIMP2016)



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



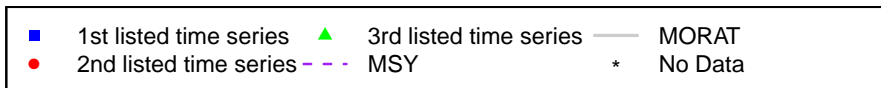
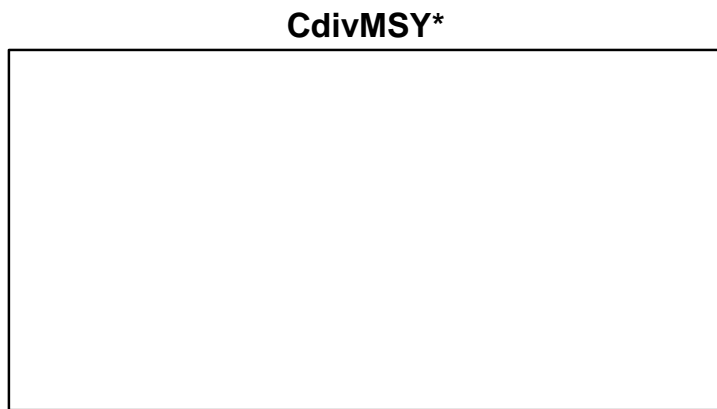
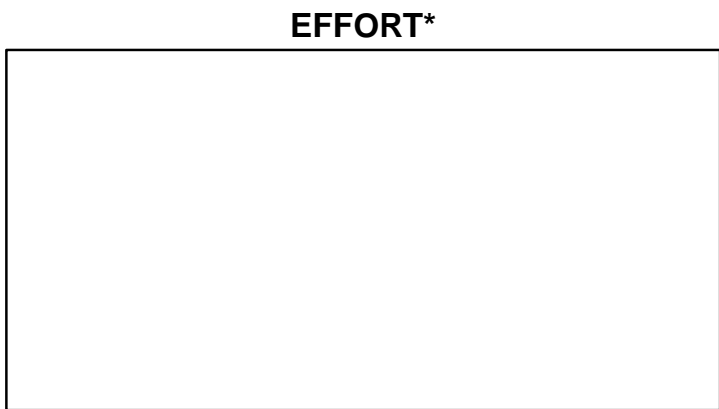
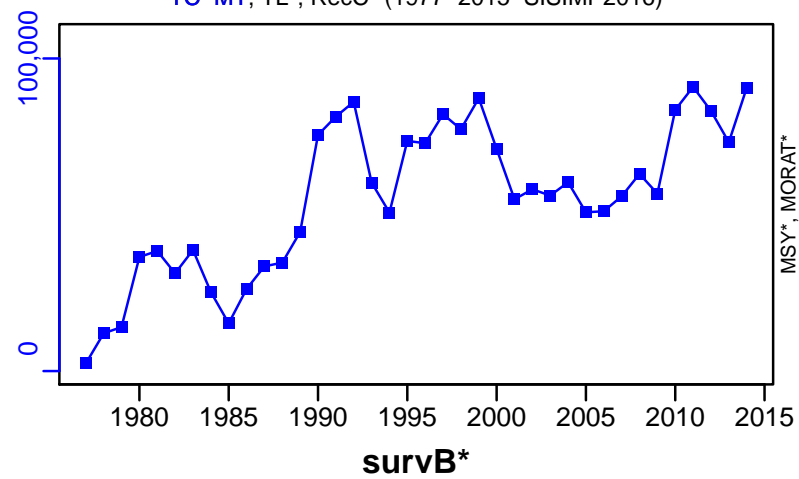
R-E00 (1977-2015-SISIMP2016)



Pacific cod Gulf of Alaska [PCODGA]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



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

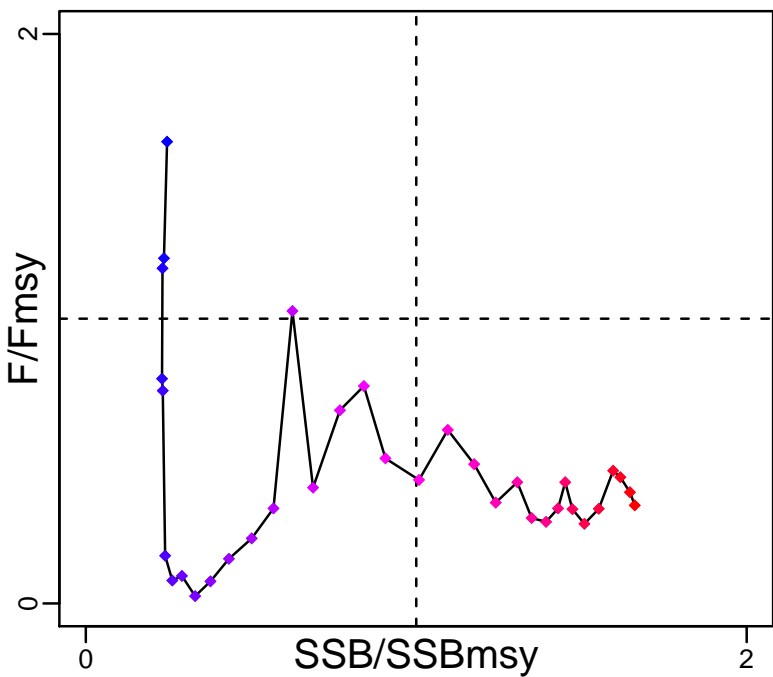
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-PERCHEBSAI-1960-2015-SISIMP2016
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	148,053
Fmsy	Fmsy-pr-1/yr	2011	0.074
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.062
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

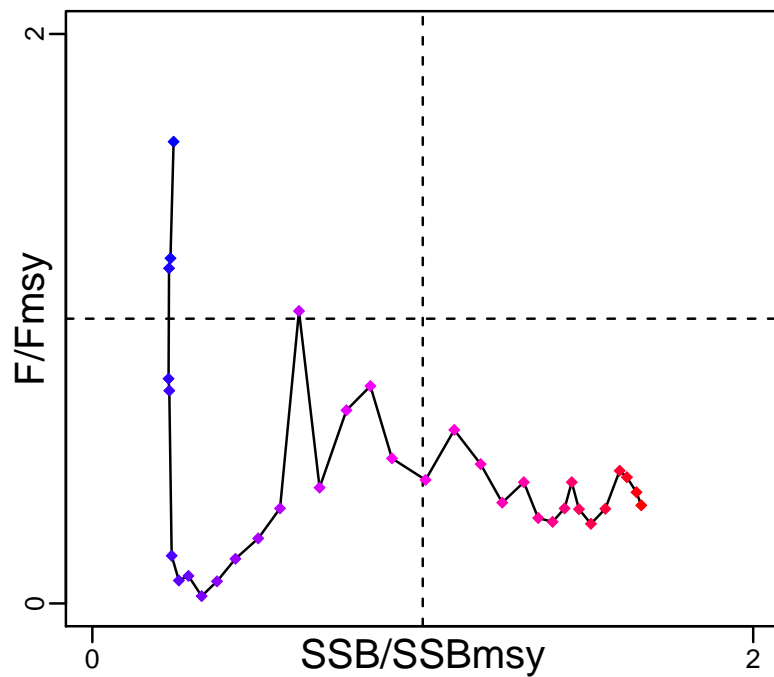
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	598,000	Both	3+
SSB	SSB-MT	2015	234,000	Females	9.1+
TN	-	-	-	-	-
R	R-E00	2015	82,100,000	-	3
F	F-1/yr	2015	0.083	-	-
ER	ER-calc-ratio	2015	0.054	-	-
TC	TC-MT	2015	32,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.581		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.345		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

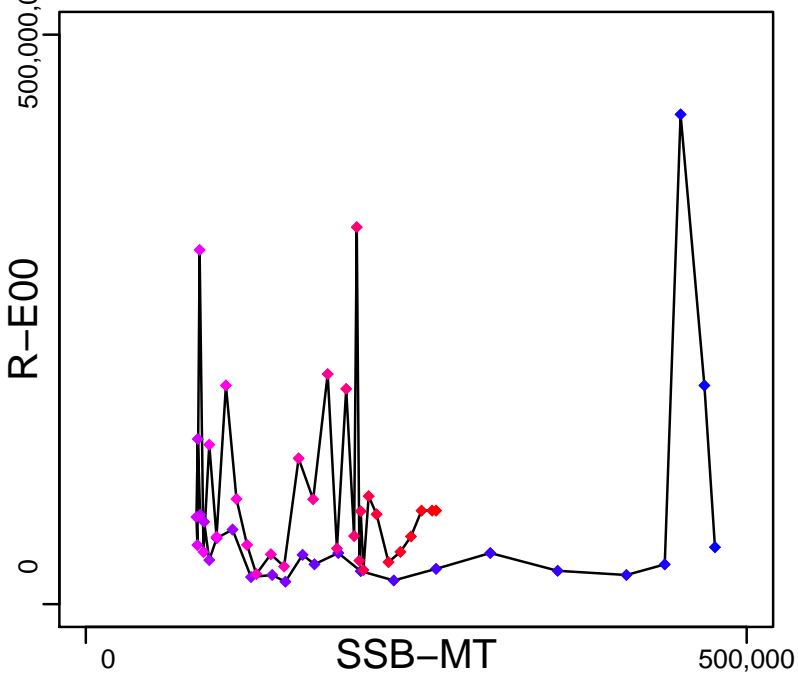
Kobe MSYpref (1960–2011–STACHURA)



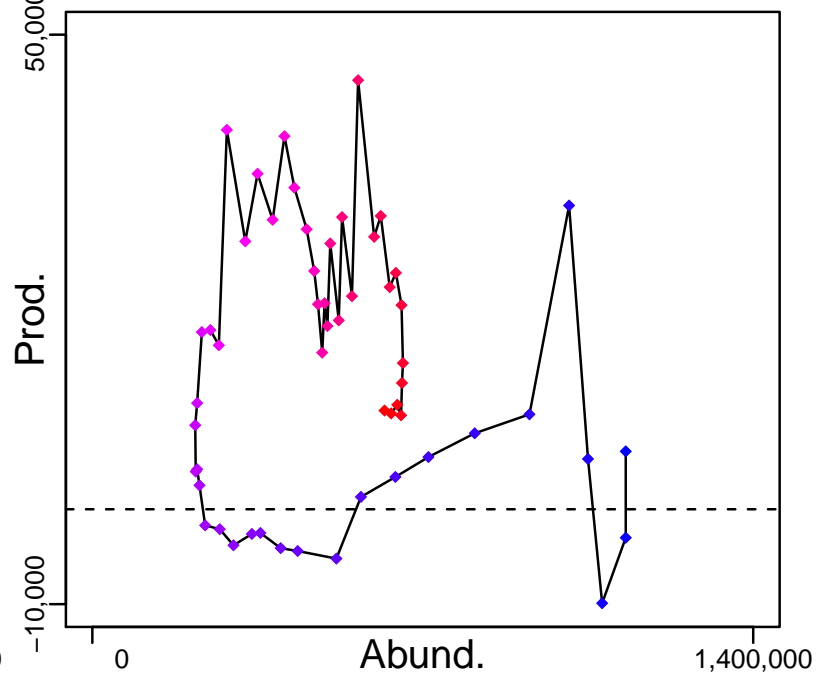
Kobe MGTpref (1960–2011–STACHURA)



Spawner Recruit (1960–2015–SISIMP2016)



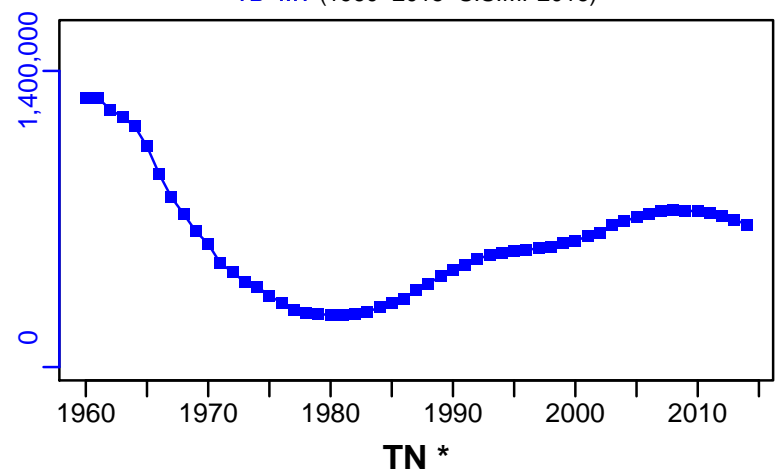
Production (1960–2015–SISIMP2016)



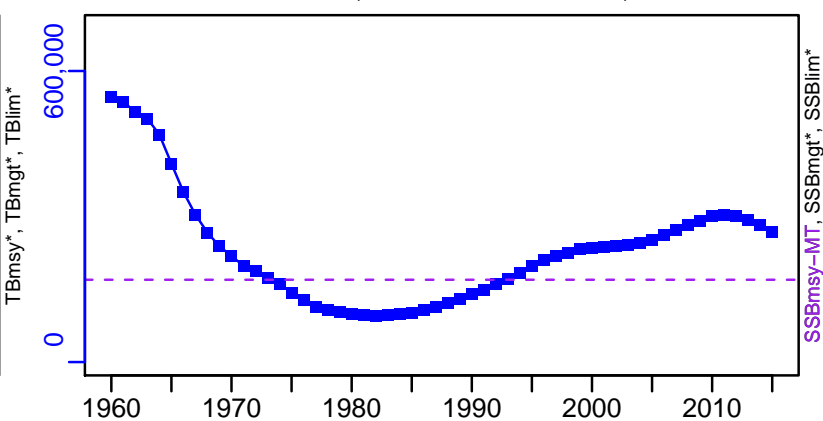
◆ Start Year ◆ End Year * No Data

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

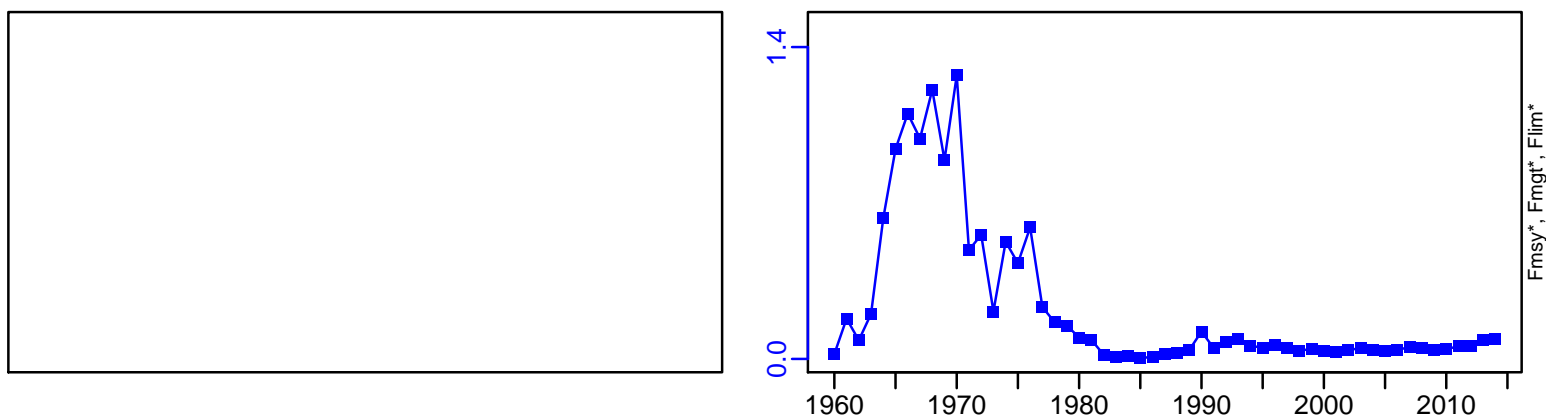
TB-MT (1960–2015–SISIMP2016)



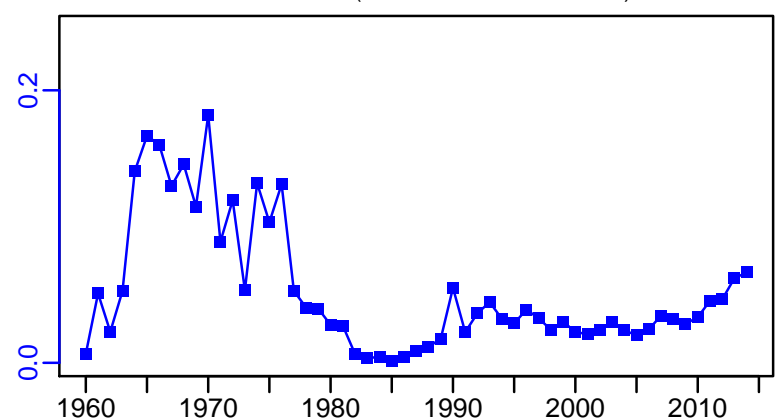
SSB-MT (1960–2015–SISIMP2016)



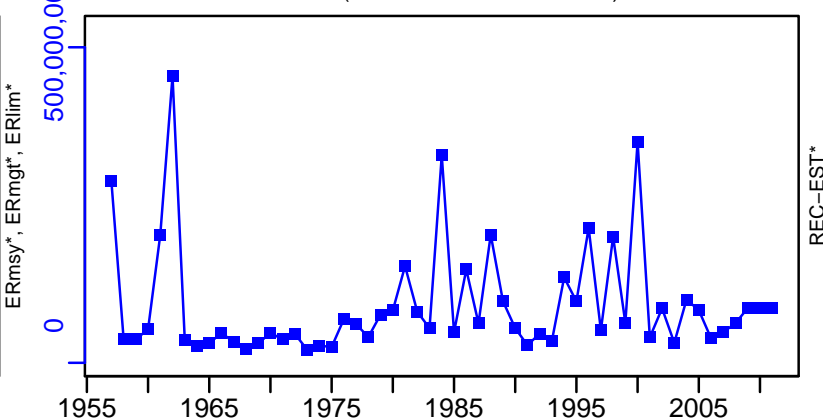
F-1/yr (1960–2015–SISIMP2016)



ER-calc-ratio (1960–2015–SISIMP2016)

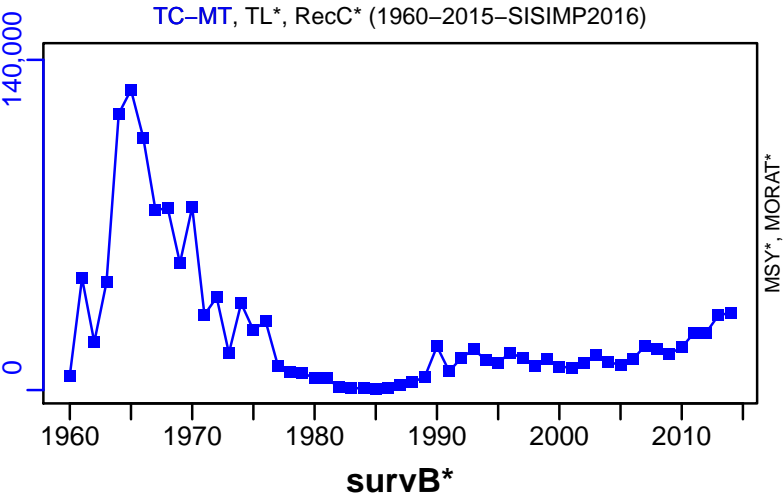


R-E00 (1960–2015–SISIMP2016)



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

TC-MT, TL*, RecC* (1960-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



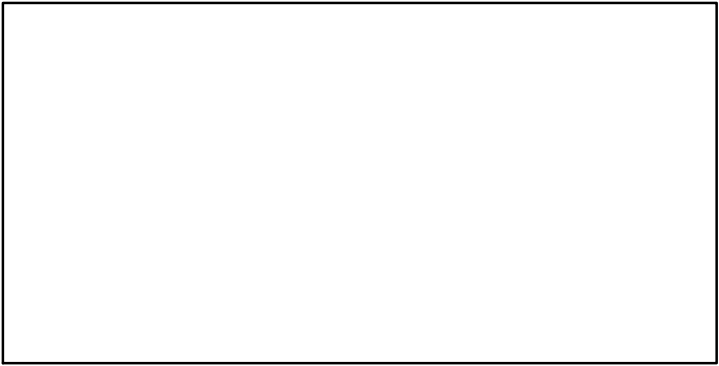
CPUE*



EFFORT*



CdivMSY*



Pacific halibut North Pacific [PHALNPAC]

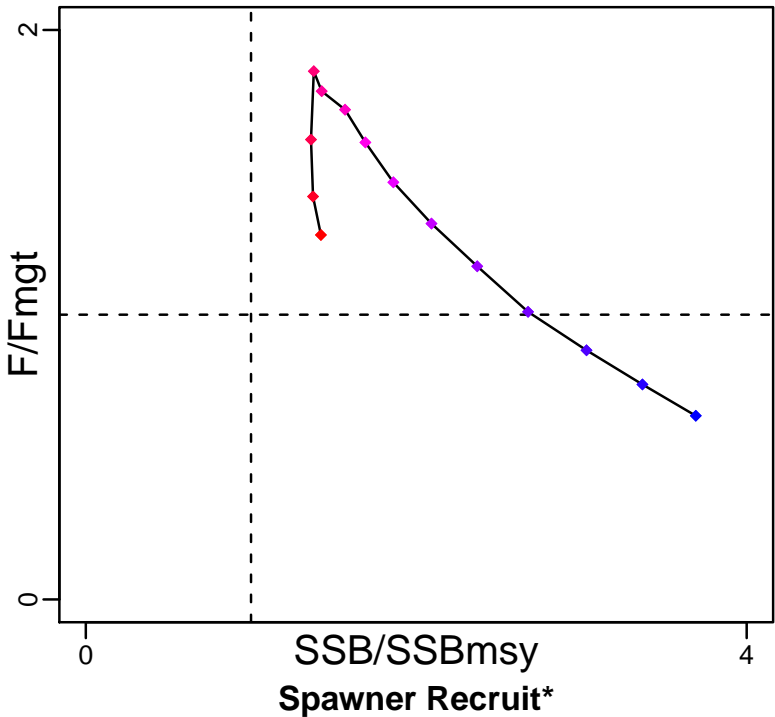
Metadata	
Scientific Name	Hippoglossus stenolepis
Current Assess ID	IPHC-PHALNPAC-1888-2014-HIVELY
Area	North Pacific
Management Authority	International Pacific Halibut Commission
Assessor	International Pacific Halibut Commission
Asmts in RAM	2014

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

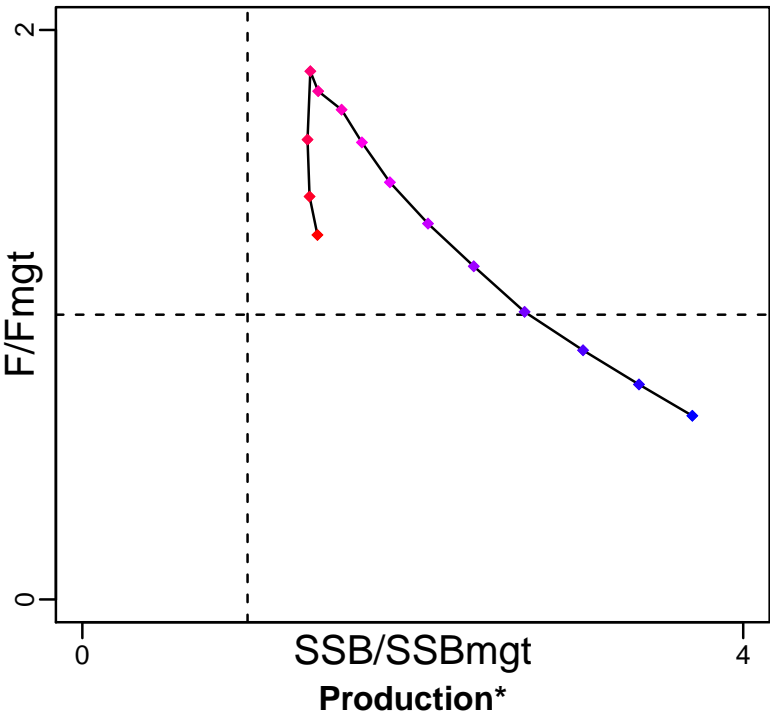
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	77,000	-	-
SSB	SSB-MT	2014	94,600	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2014	0.256	-	-
ER	ER-calc-ratio	2014	0.139	-	-
TC	TC-MT	2014	10,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2014	1.455		
F/Fmsy	-	-	-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

Pacific halibut North Pacific [PHALNPAC]

Kobe MSYpref (1888–2014–HIVELY)



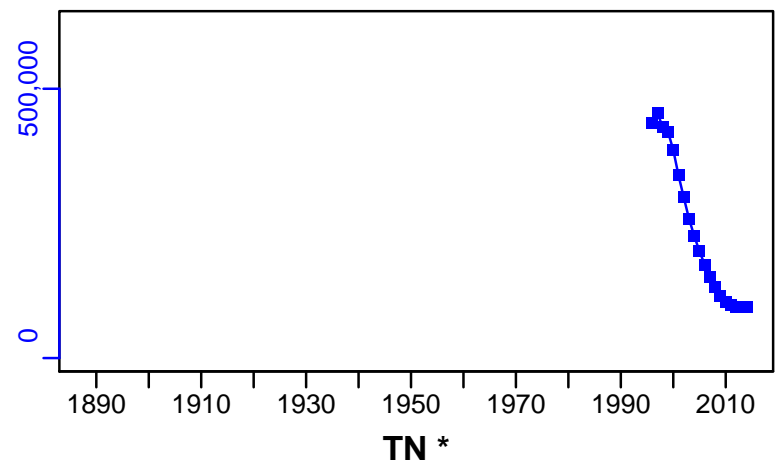
Kobe MGTpref (1888–2014–HIVELY)



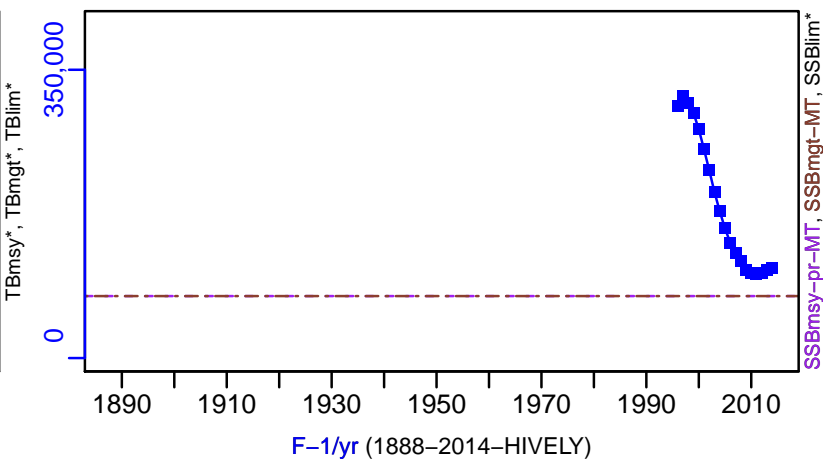
◆ Start Year ◆ End Year * No Data

Pacific halibut North Pacific [PHALNPAC]

TB-MT (1888–2014–HIVELY)



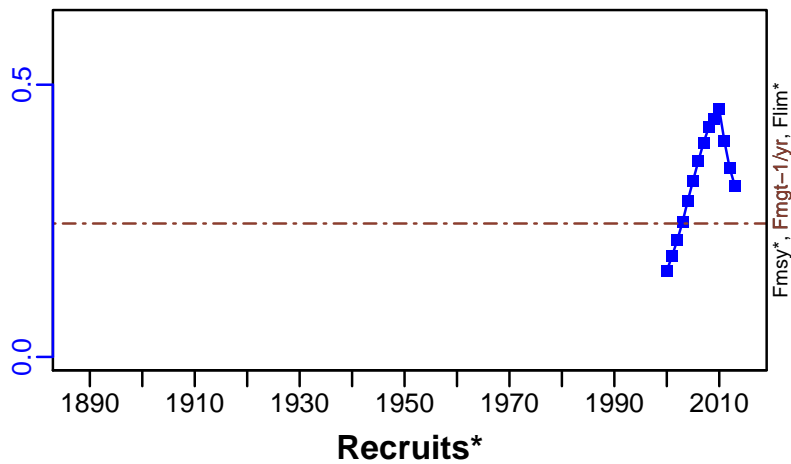
SSB-MT (1888–2014–HIVELY)



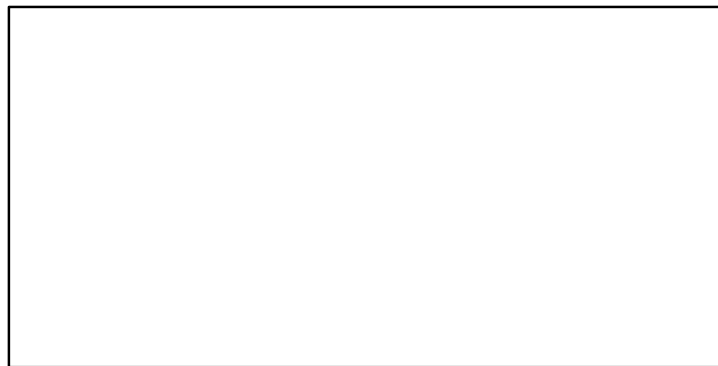
TN *



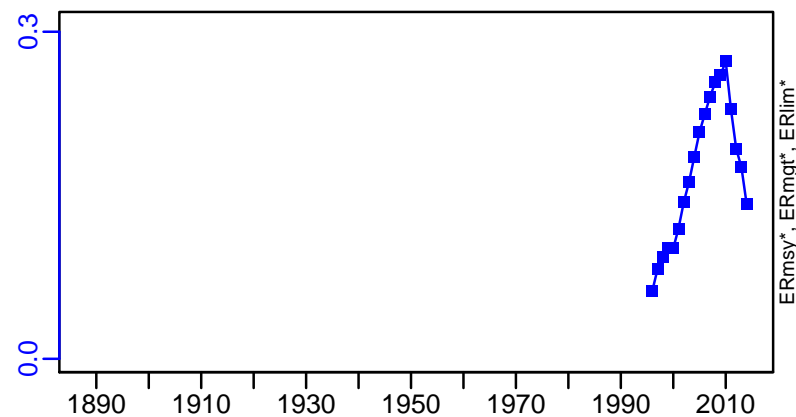
F-1/yr (1888–2014–HIVELY)



Recruits*



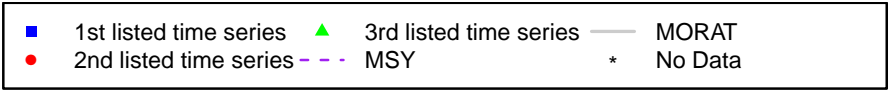
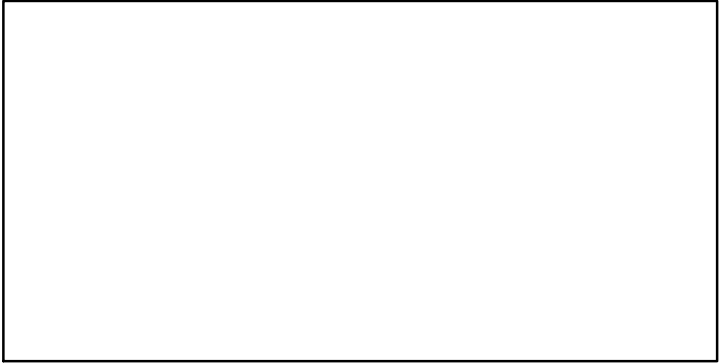
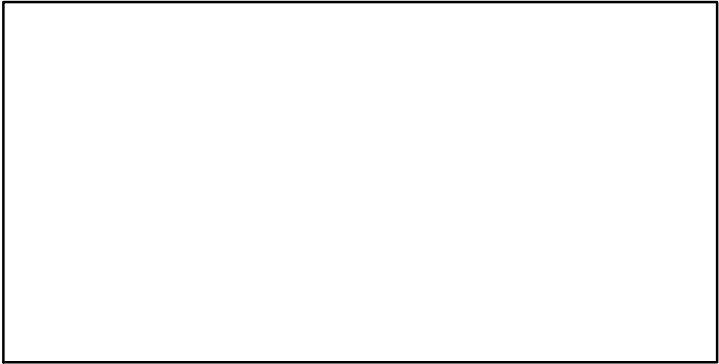
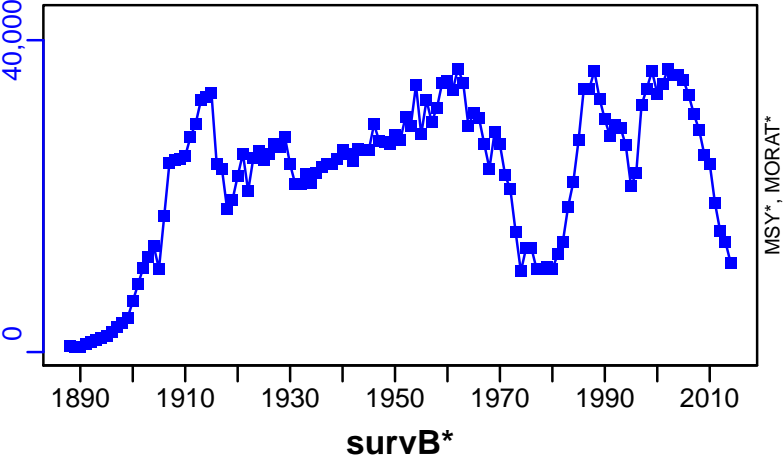
ER-calc-ratio (1888–2014–HIVELY)



Pacific halibut North Pacific [PHALNPAC]

TC-MT, TL*, RecC* (1888-2014-HIVELY)

TAC*, Cpair*, Cadv*



Pacific ocean perch Gulf of Alaska [POPERCHGA]

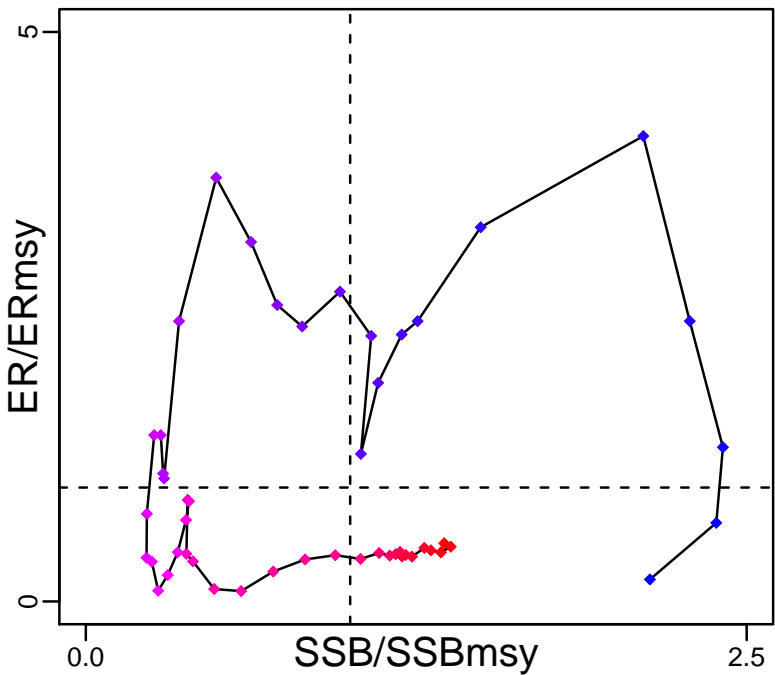
Metadata	
Scientific Name	Sebastes alutus
Current Assess ID	AFSC-POPERCHGA-1961-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	238,362
SSBmsy	SSBmsy-MT	2015	99,865
Fmsy	Fmsy-pr-1/yr	2010	0.142
ERmsy	ERmsy-ratio	2010	0.085
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	20,243
M	M-1/yr	2010	0.06
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

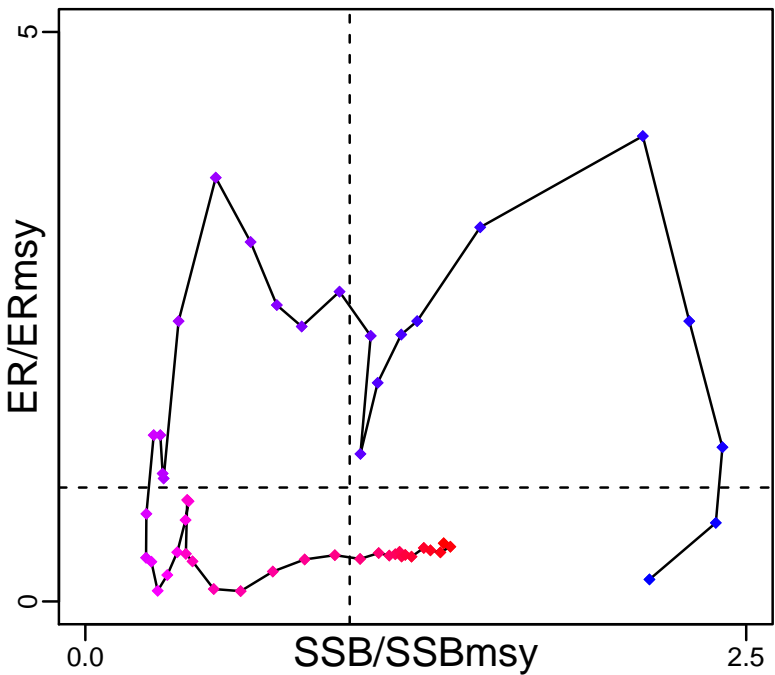
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	462,000	Both	2+
SSB	SSB-MT	2015	155,000	Females	10+
TN	-	-	-	-	-
R	R-E00	2015	52,900,000	-	2
F	F-1/yr	2015	0.076	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2015	17,600		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.552		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.615		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.511		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific ocean perch Gulf of Alaska [POPERCHGA]

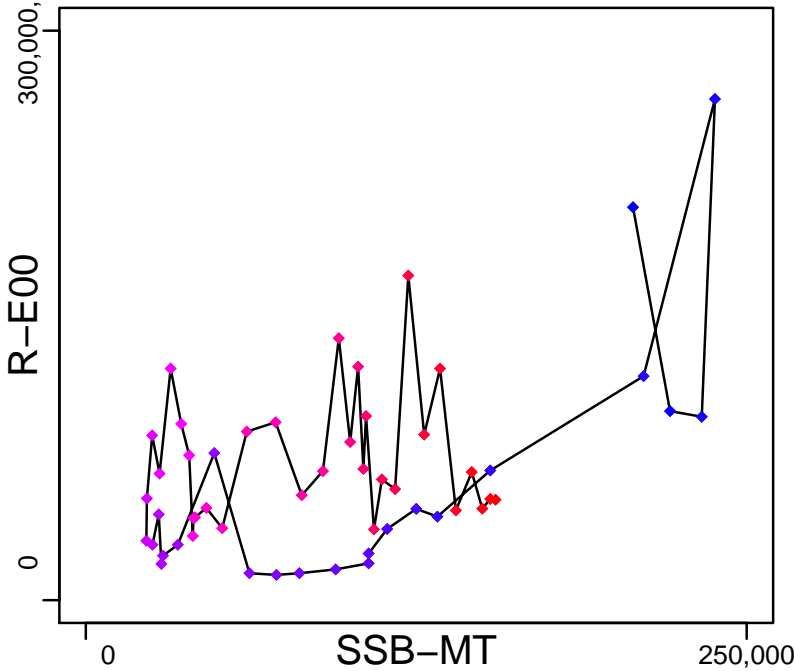
Kobe MSYpref (1959–2010–STACHURA)



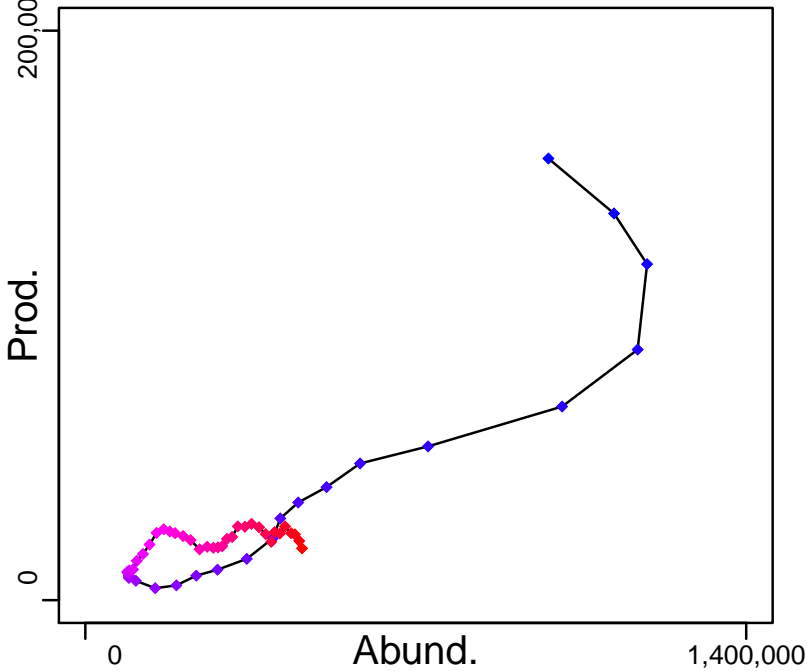
Kobe MGTpref (1959–2010–STACHURA)



Spawner Recruit (1961–2015–SISIMP2016)



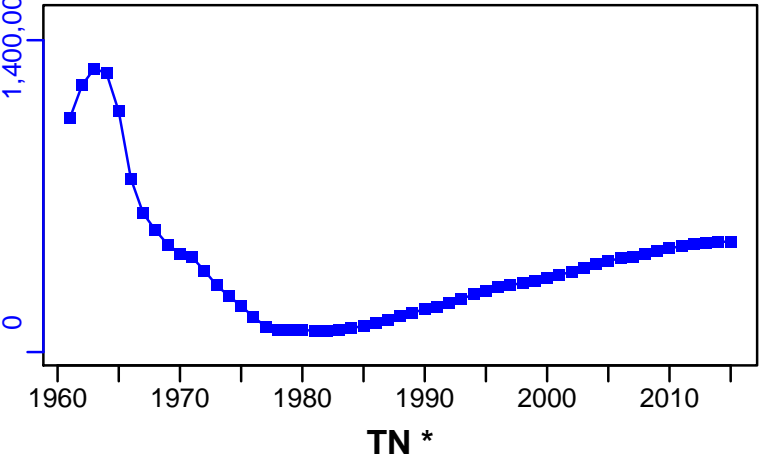
Production (1961–2015–SISIMP2016)



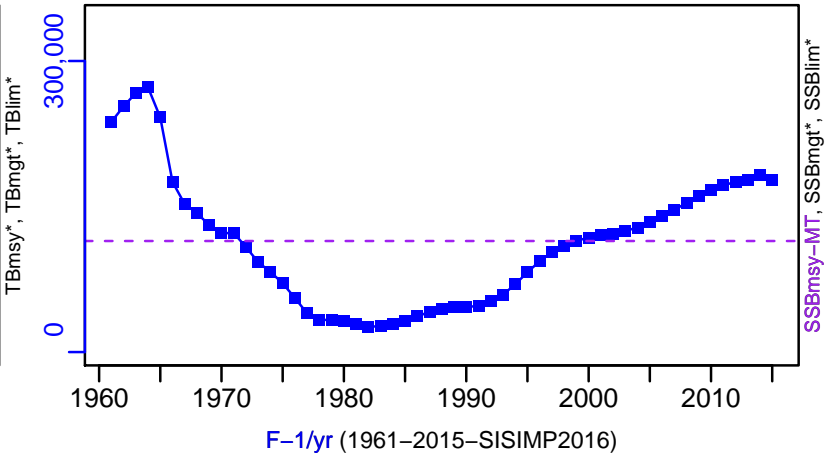
◆ Start Year ◆ End Year * No Data

Pacific ocean perch Gulf of Alaska [POPERCHGA]

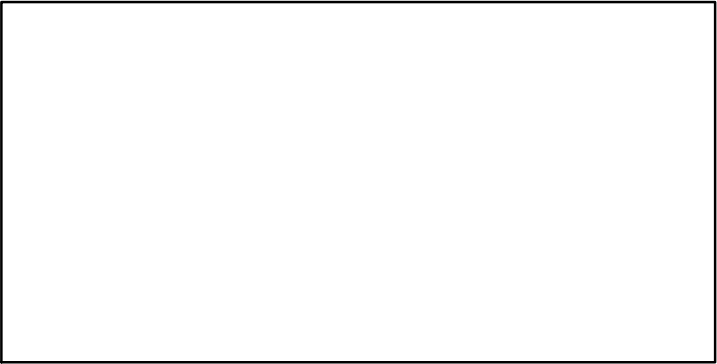
TB-MT (1961-2015-SISIMP2016)



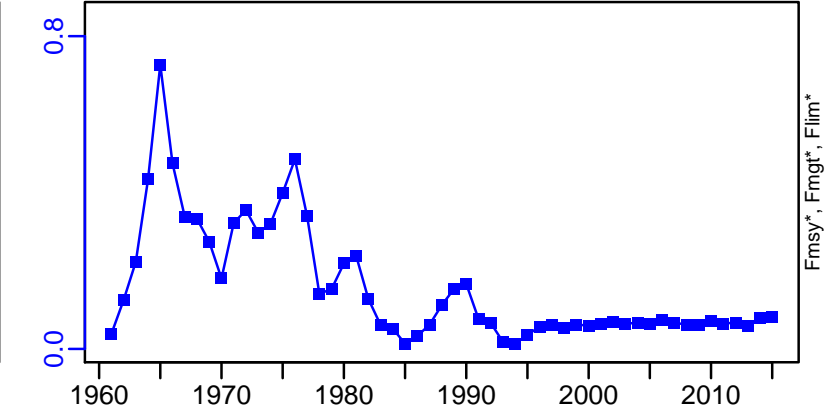
SSB-MT (1961-2015-SISIMP2016)



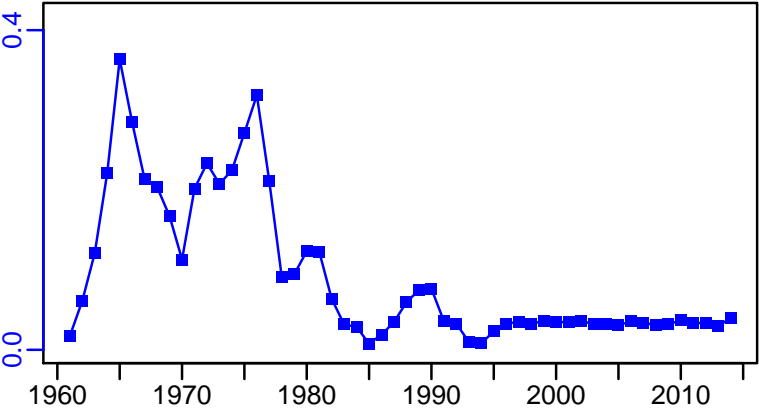
TN *



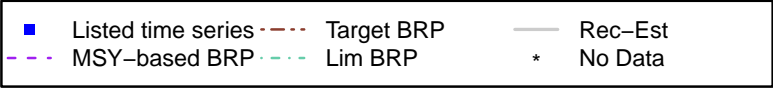
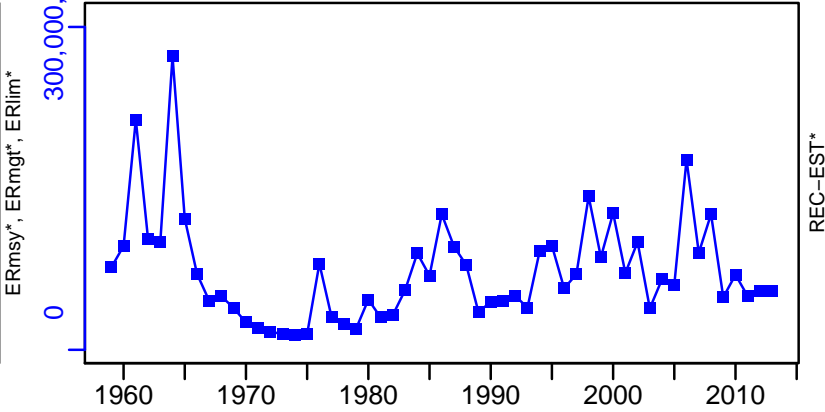
F-1/yr (1961-2015-SISIMP2016)



ER-calc-ratio (1961-2015-SISIMP2016)

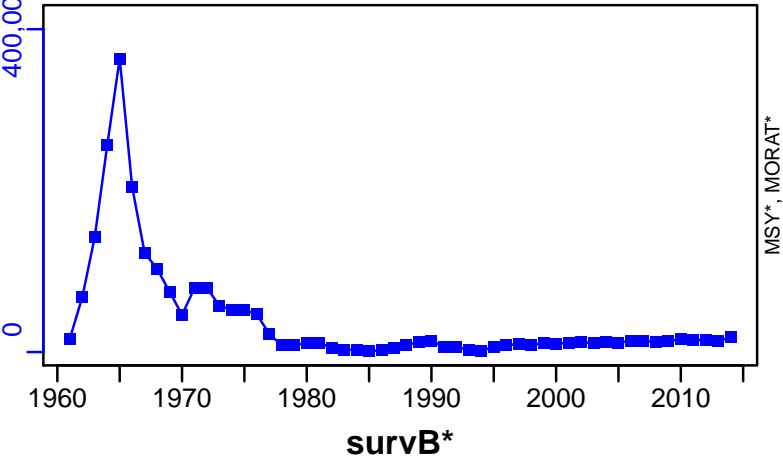


R-E00 (1961-2015-SISIMP2016)



Pacific ocean perch Gulf of Alaska [POPERCHGA]

TC-MT, TL*, RecC* (1961-2015-SISIMP2016)



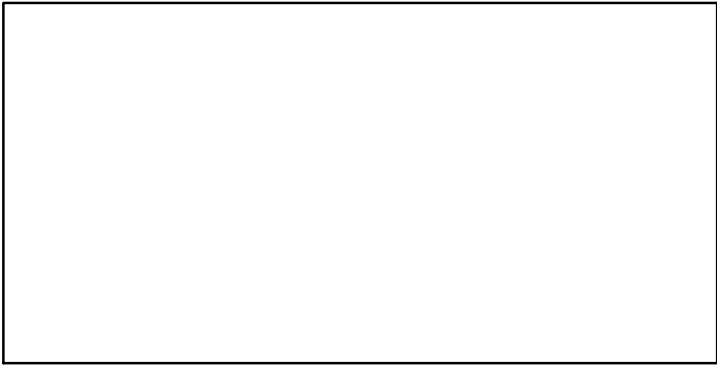
TAC*, Cpair*, Cadv*



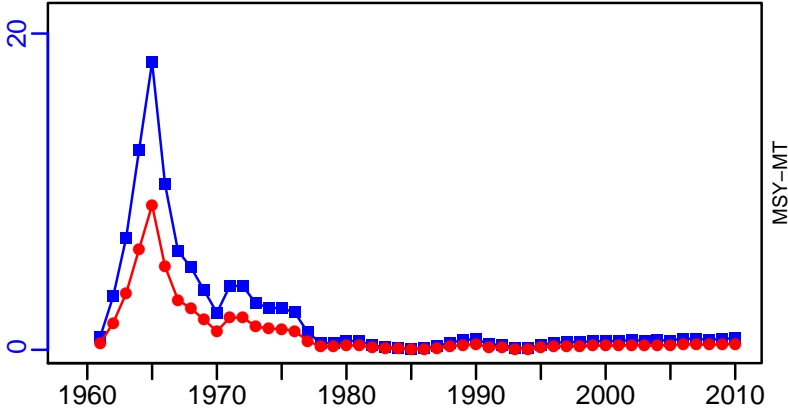
CPUE*



EFFORT*



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

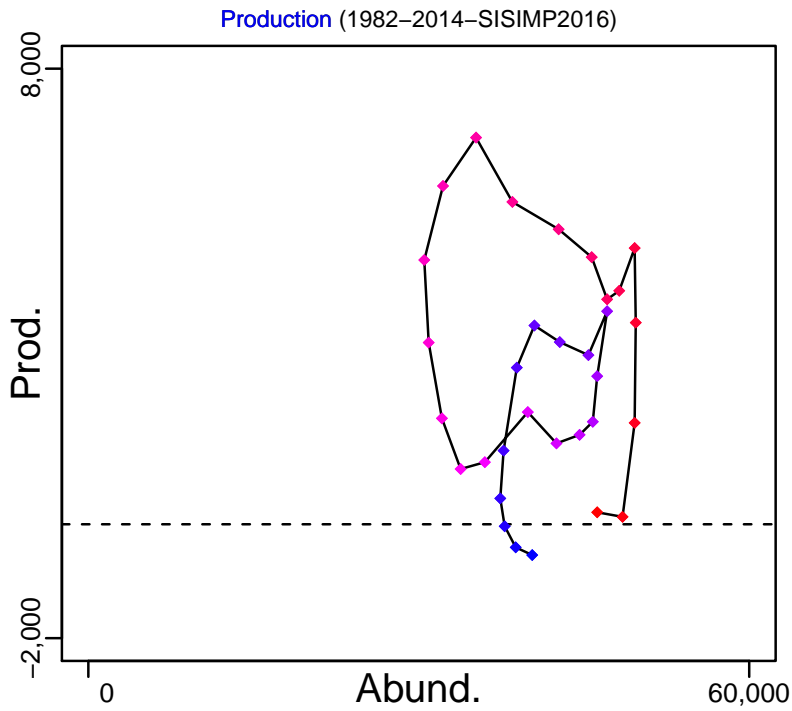
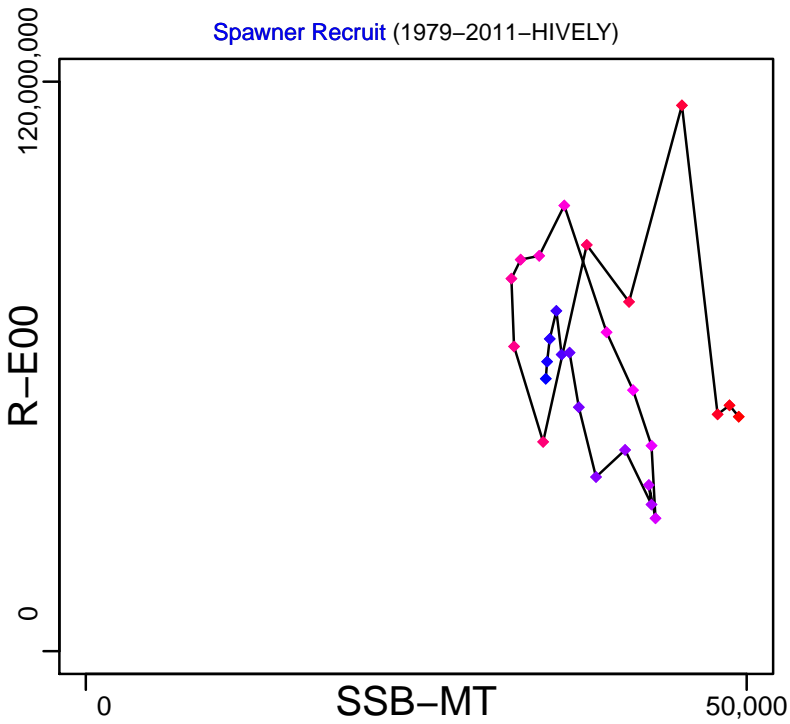
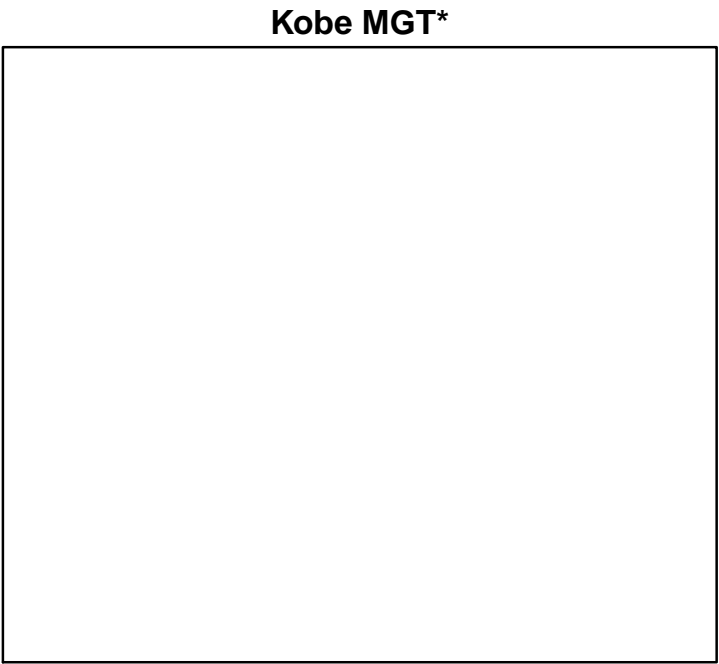
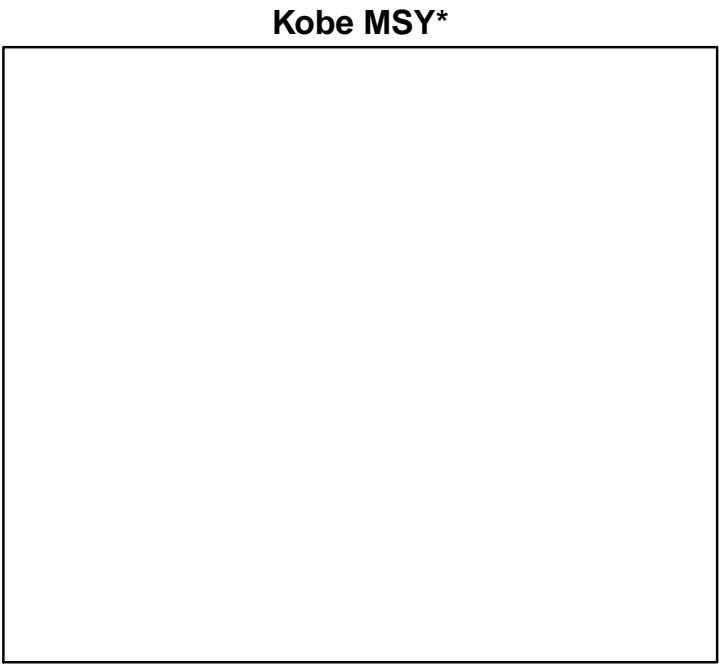


Rex sole Gulf of Alaska [REXSOLEGA]

Metadata	
Scientific Name	Glyptocephalus zachirus
Current Assess ID	AFSC-REXSOLEGA-1982-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-pr-1/yr	2011	0.17
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.128
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.17
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

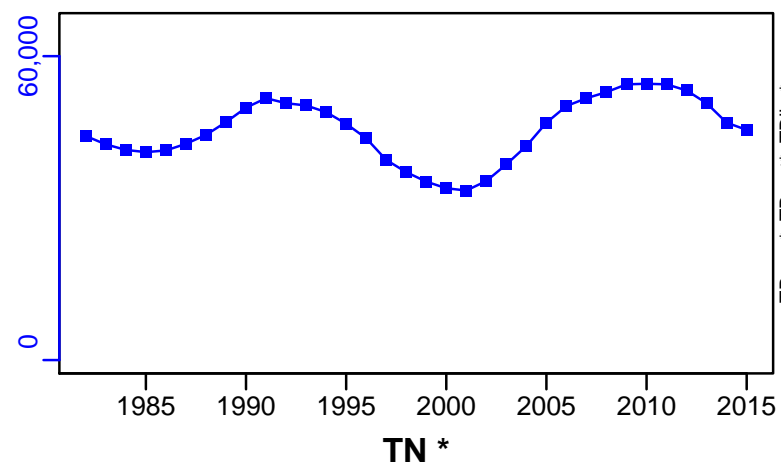
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	41,400	-	0+
SSB	SSB-MT	2011	52,600	Females	-
TN	-	-	-	-	-
R	R-E00	2011	49,400,000	-	3
F	F-1/yr	2011	0.098	-	-
ER	ER-calc-ratio	2014	0.084	-	-
TC	TC-MT	2014	3580		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2011	0.578		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.767		
ER/ERmgt	-	-	-		



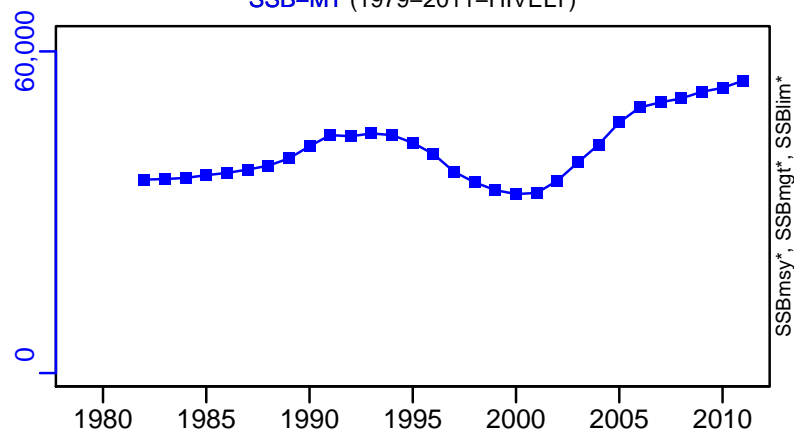
◆ Start Year ◆ End Year * No Data

Rex sole Gulf of Alaska [REXSOLEGA]

TB-MT (1982–2014–SISIMP2016)



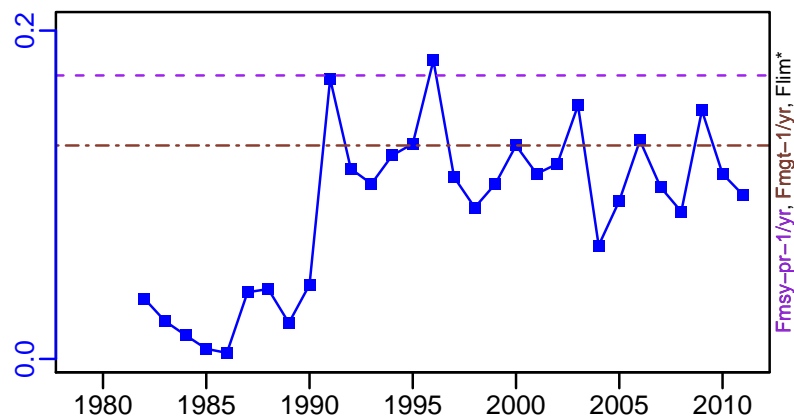
SSB-MT (1979–2011–HIVELY)



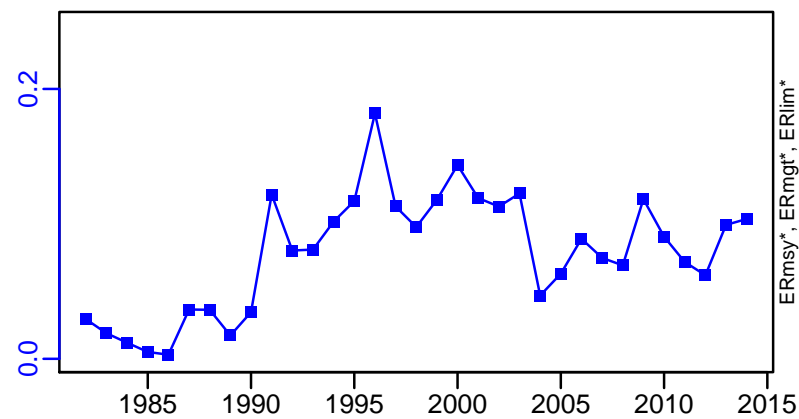
TN *



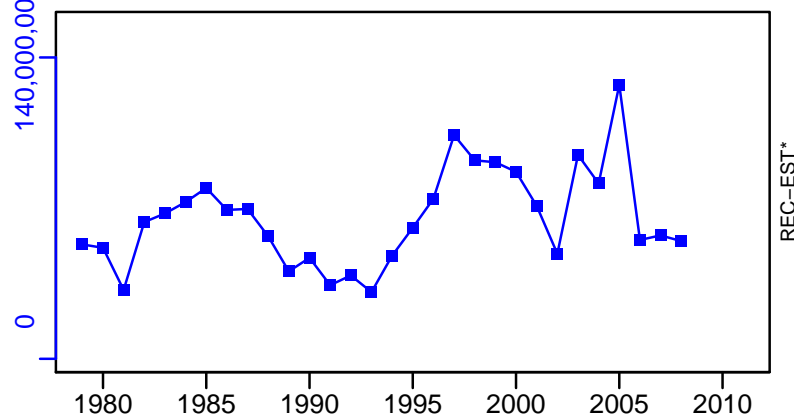
F-1/yr (1979–2011–HIVELY)



ER-calc-ratio (1982–2014–SISIMP2016)

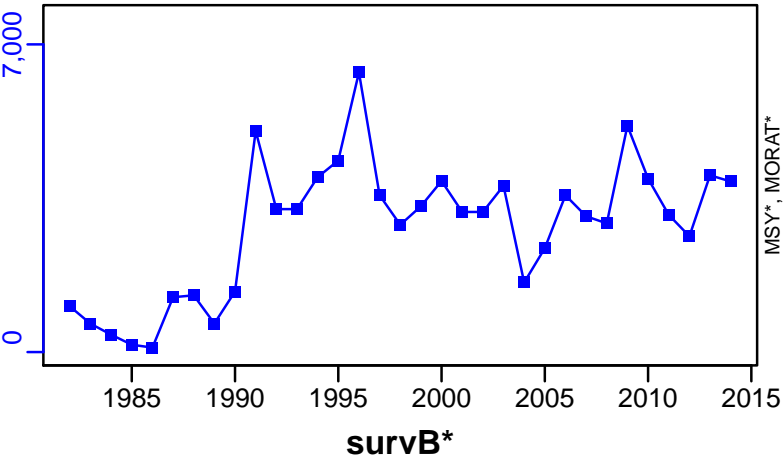


R-E00 (1979–2011–HIVELY)



Rex sole Gulf of Alaska [REXSOLEGA]

TC-MT, TL*, RecC* (1982-2014-SISIMP2016)



TAC*, Cpair*, Cadv*



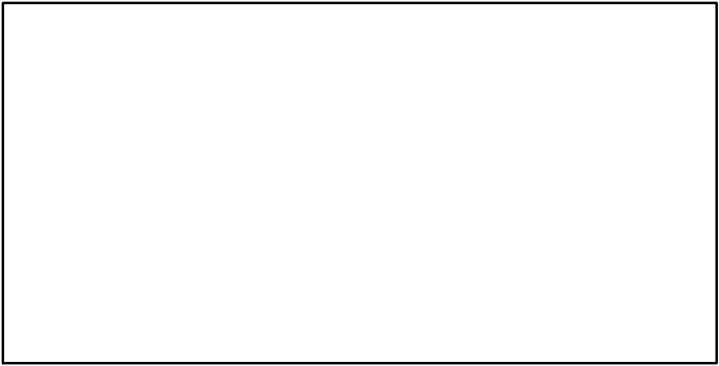
CPUE*



EFFORT*



CdivMSY*



Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

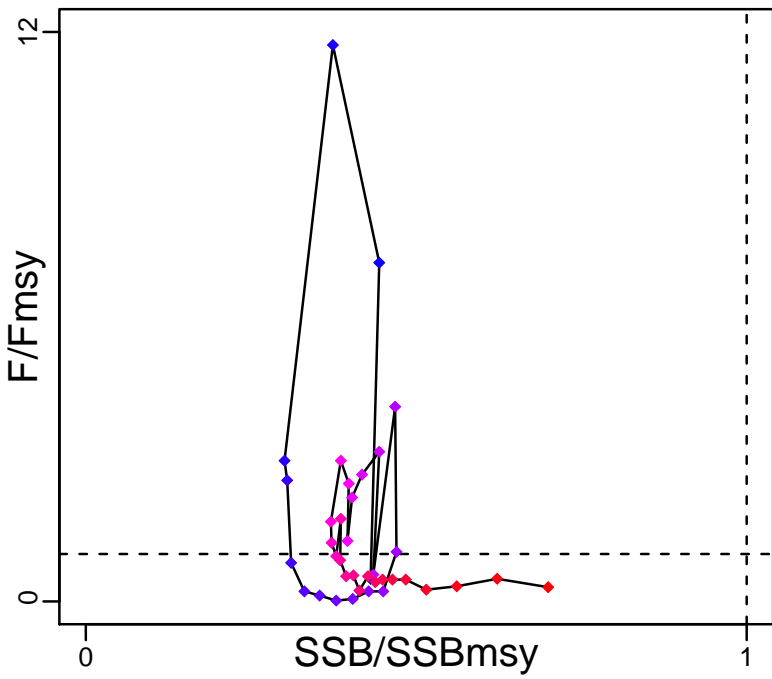
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKBSAI-1974-2015-HIVELY
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

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	-	-	-

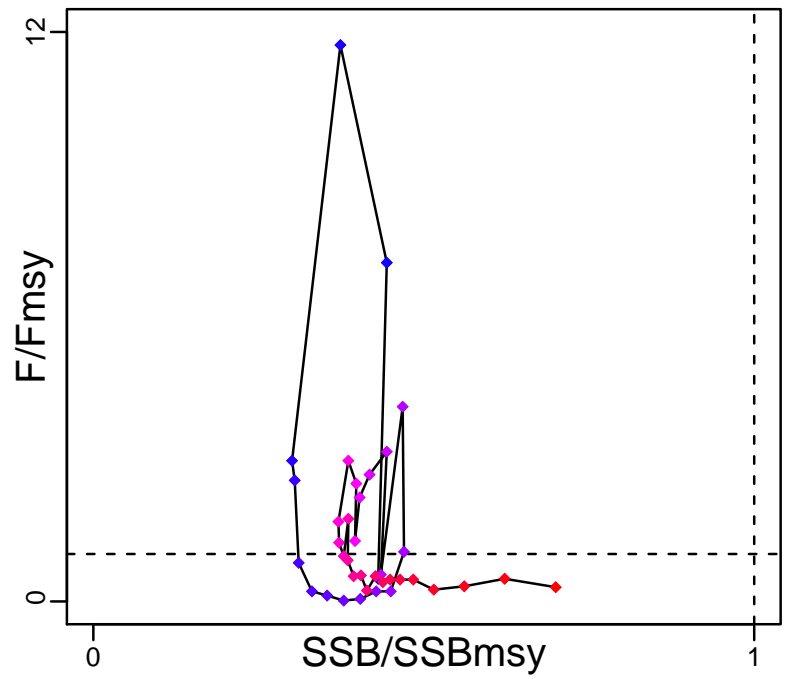
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	40,400	Both	3+
SSB	SSB-MT	2015	6980	Females	3+
TN	-	-	-	-	-
R	R-E00	2015	1,560,000	-	3
F	F-1/yr	2015	0.017	-	-
ER	ER-calc-ratio	2015	0.005	-	-
TC	TC-MT	2015	194		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.7		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

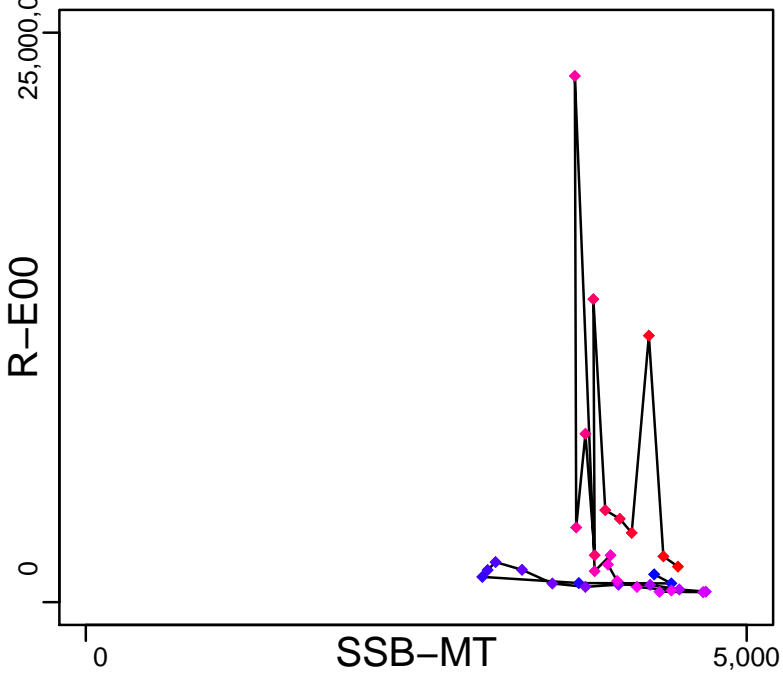
Kobe MSYpref (1974–2015–HIVELY)



Kobe MGTpref (1974–2015–HIVELY)



Spawner Recruit (1974–2015–HIVELY)



Production*

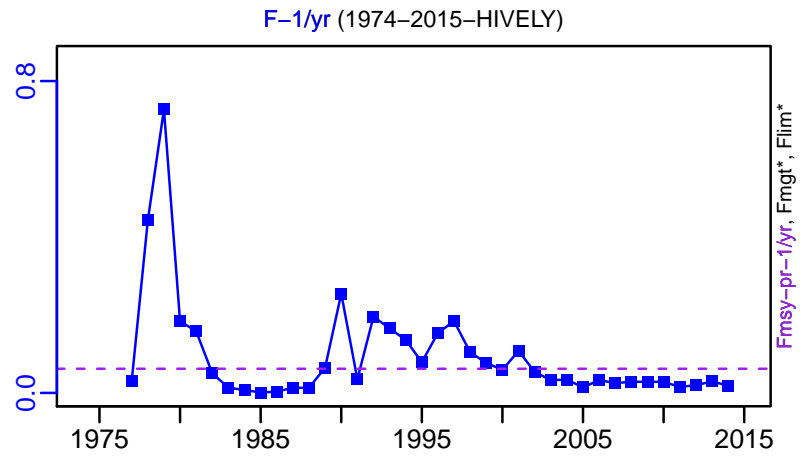
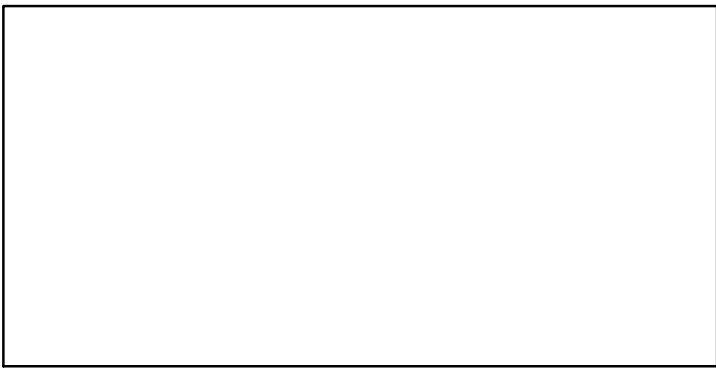
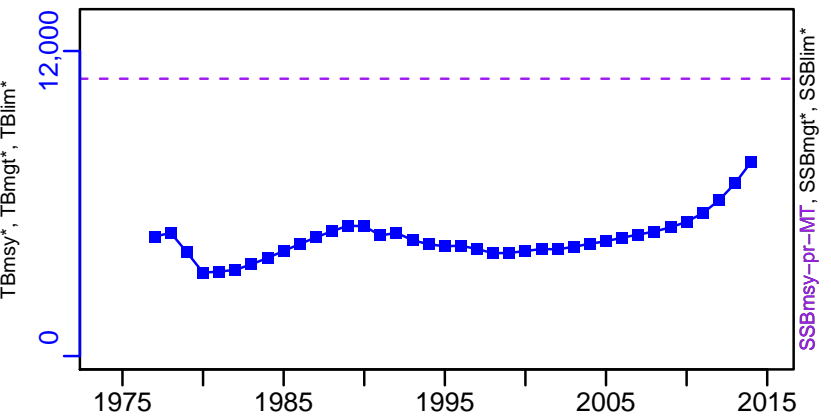
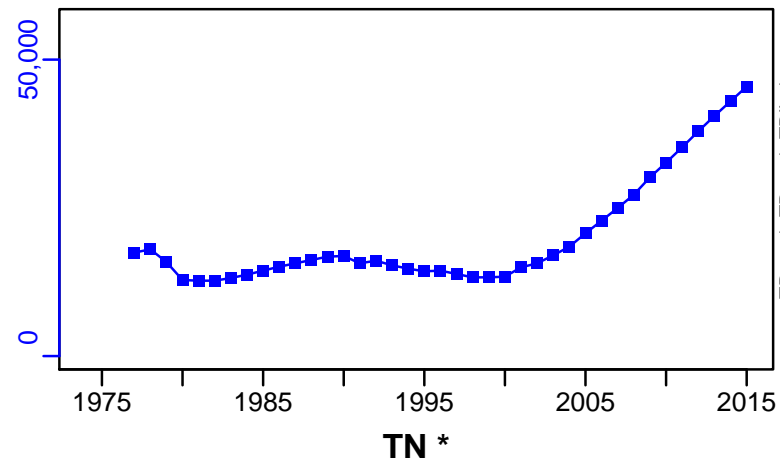


◆ Start Year ◆ End Year * No Data

Roughye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

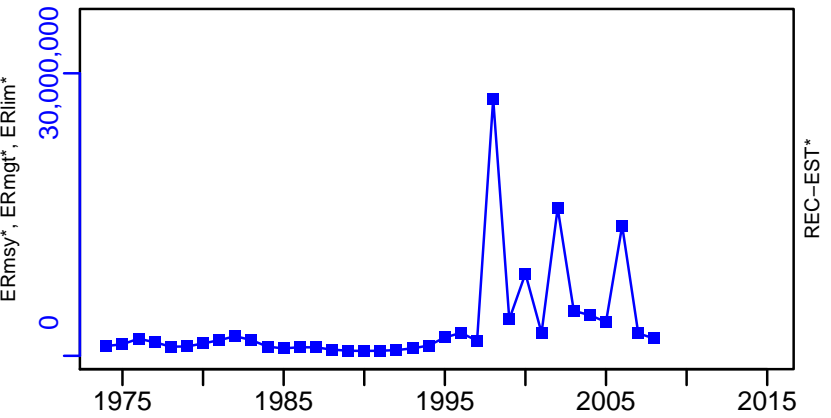
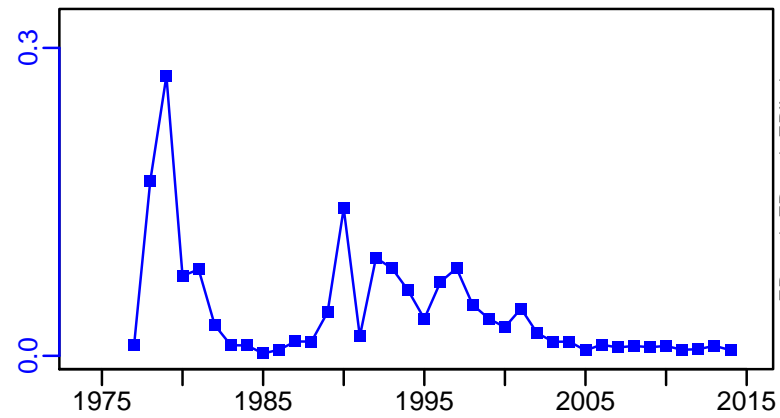
TB-MT (1974-2015-HIVELY)

SSB-MT (1974-2015-HIVELY)



ER-calc-ratio (1974-2015-HIVELY)

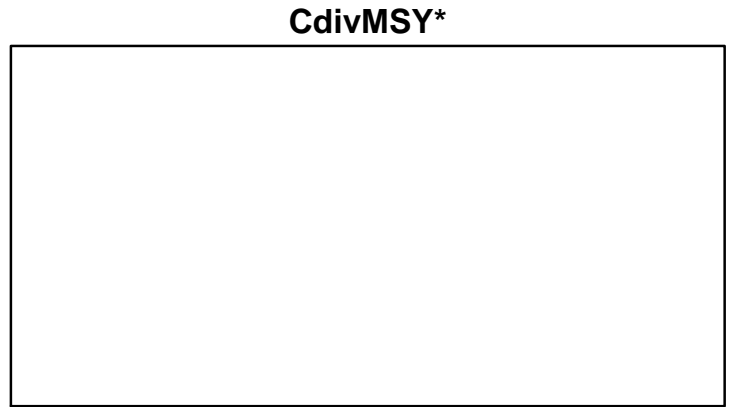
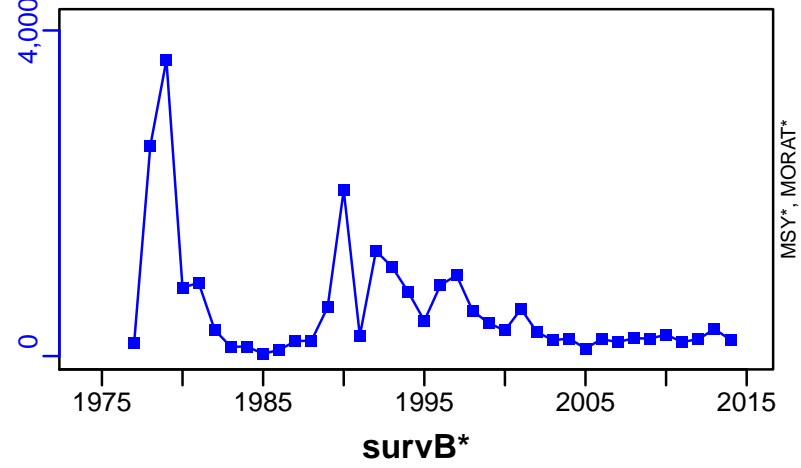
R-E00 (1974-2015-HIVELY)



Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

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

TAC*, Cpair*, Cadv*



Rougheye rockfish Gulf of Alaska [REYEROCKGA]

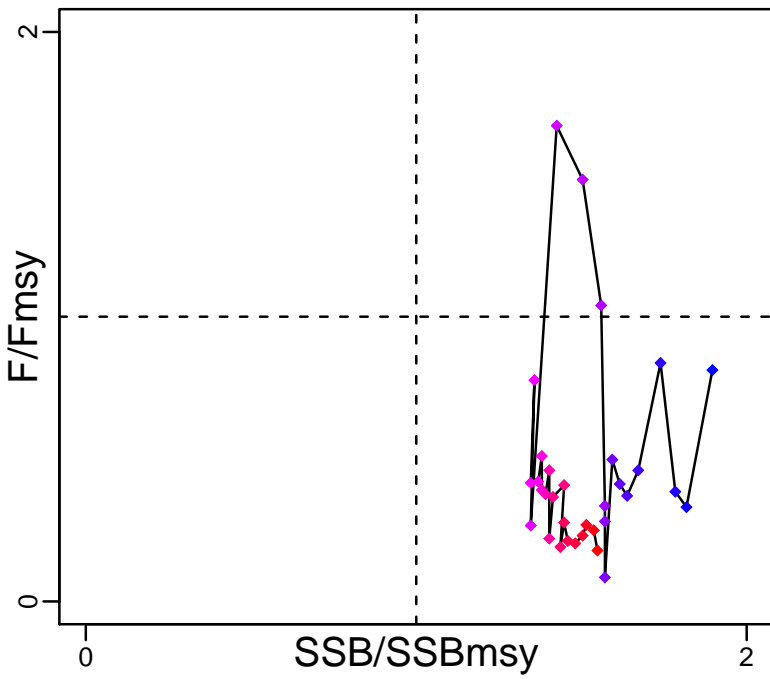
Metadata	
Scientific Name	Sebastes aleutianus
Current Assess ID	AFSC-REYEROCKGA-1974-2010-STACHURA
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010

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	-	-	-

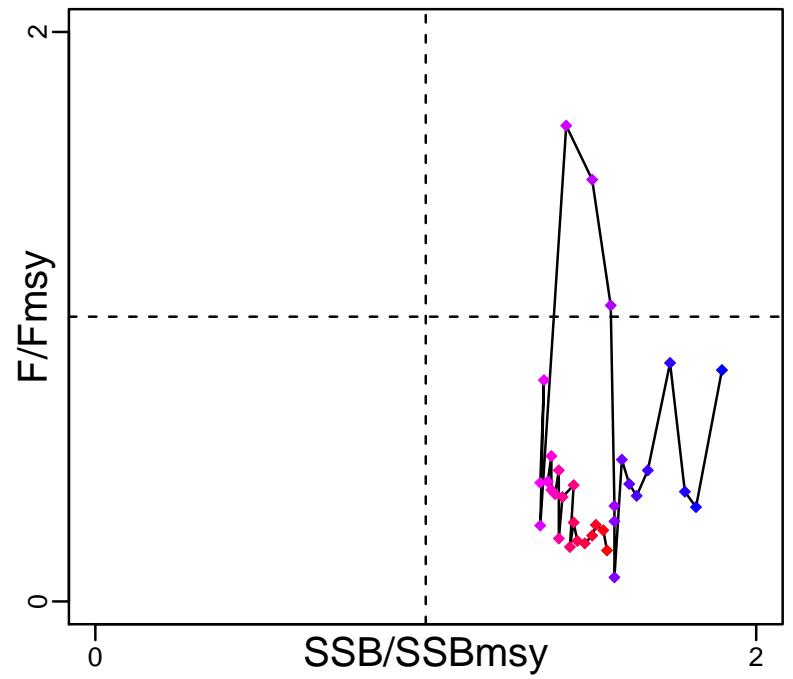
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	45,400	-	-
SSB	SSB-MT	2010	13,800	Females	19+
TN	-	-	-	-	-
R	R-E00	2010	1,160,000	-	-
F	F-1/yr	2010	0.009	-	-
ER	ER-ratio	2010	0.006	-	-
TC	TC-MT	2010	445		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2010	1.548		
F/Fmsy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

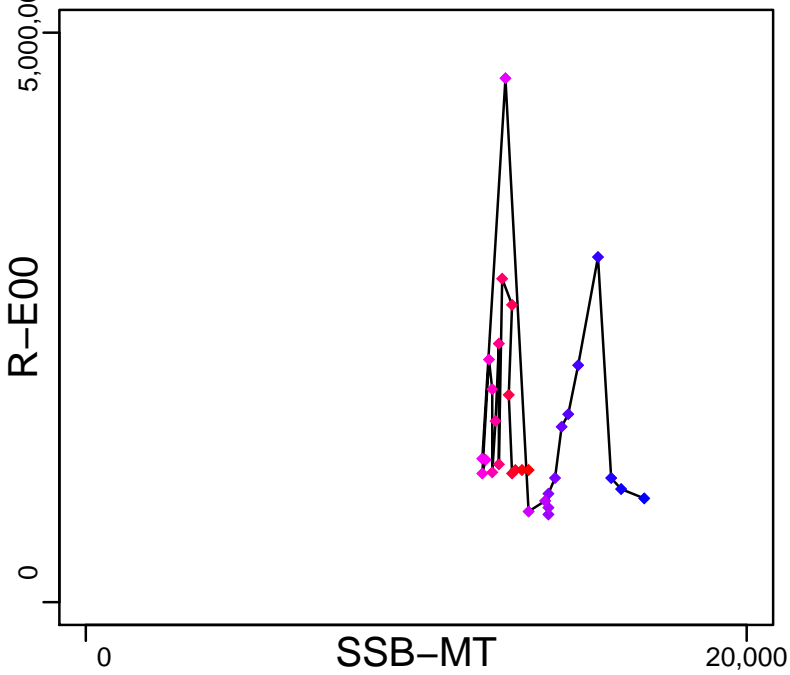
Kobe MSYpref (1974–2010–STACHURA)



Kobe MGTpref (1974–2010–STACHURA)



Spawner Recruit (1974–2010–STACHURA)



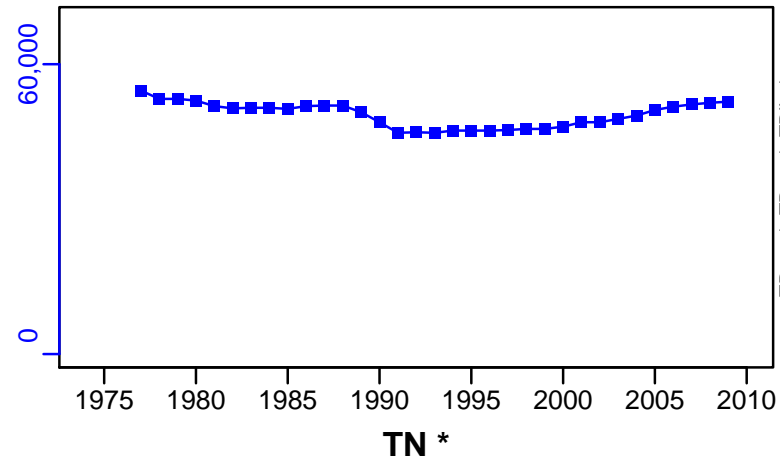
Production*



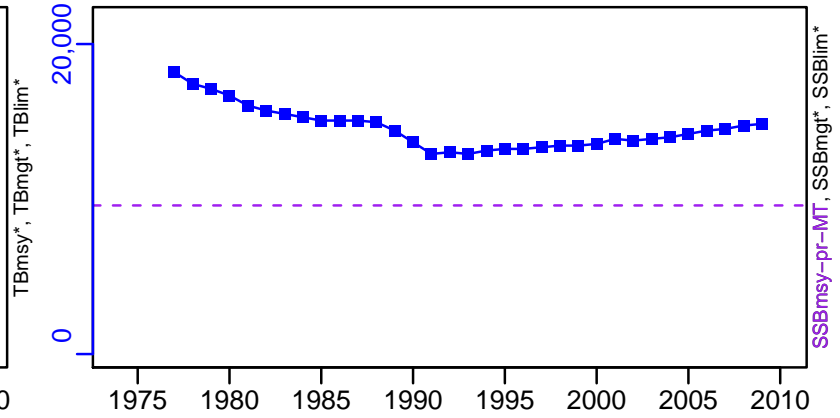
◆ Start Year ◆ End Year * No Data

Rougheye rockfish Gulf of Alaska [REYEROCKGA]

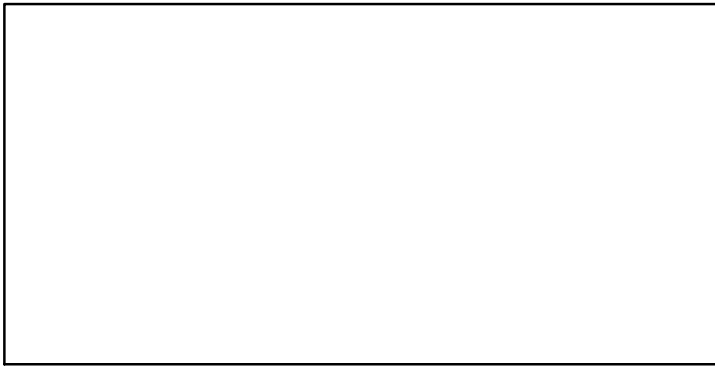
TB-MT (1974-2010-STACHURA)



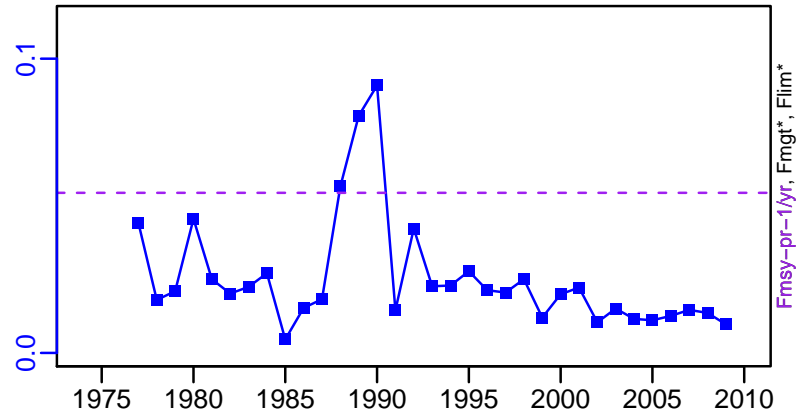
SSB-MT (1974-2010-STACHURA)



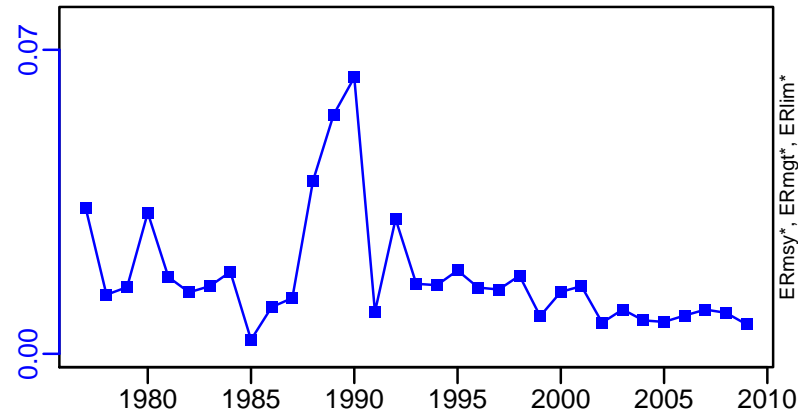
TN *



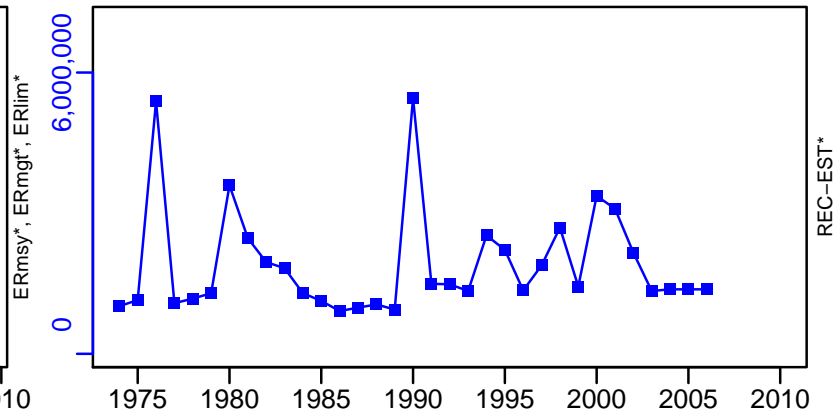
F-1/yr (1974-2010-STACHURA)



ER-ratio (1974-2010-STACHURA)

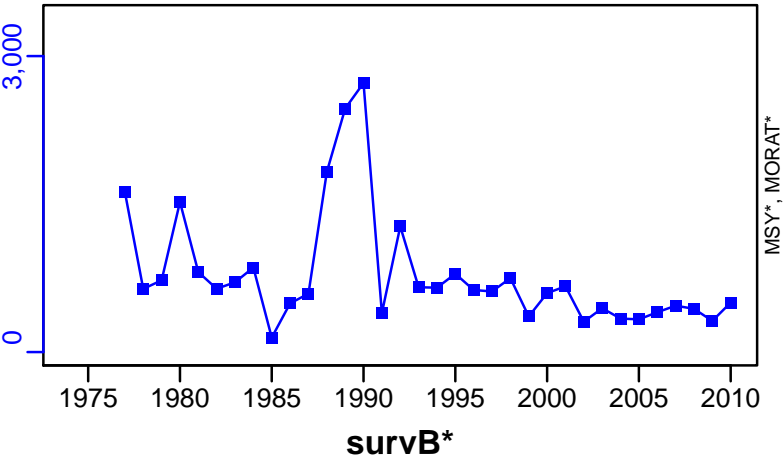


R-E00 (1974-2010-STACHURA)



Rougheye rockfish Gulf of Alaska [REYEROCKGA]

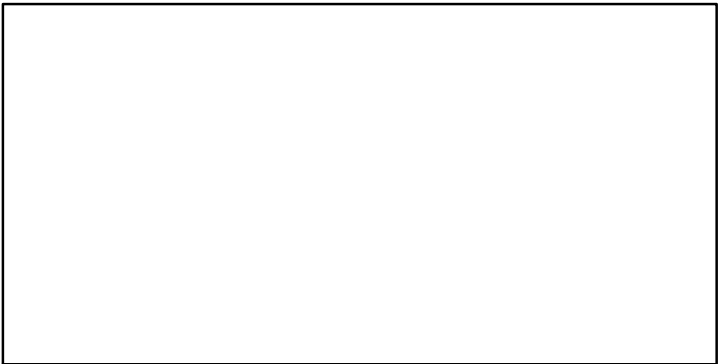
TC-MT, TL*, RecC* (1974-2010-STACHURA)



TAC*, Cpair*, Cadv*



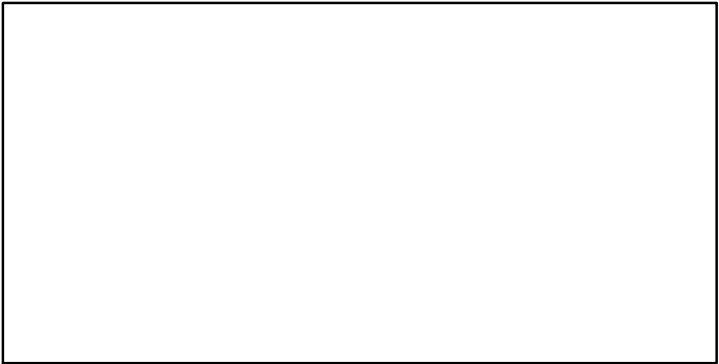
CPUE*



EFFORT*



CdivMSY*



Red king crab Bristol Bay [RKCRA BBB]

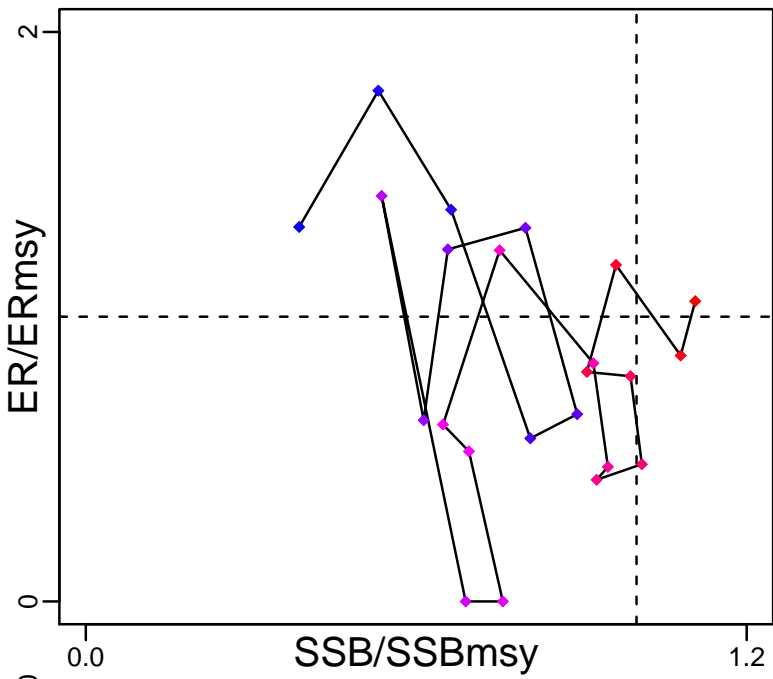
Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRA BBB-1975-2015-SISIMP2016
Area	Bristol Bay
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2008, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	26,100
SSBmsy	SSBmsy-MT	2008	34,070
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2008	0.33
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2008	23,646
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

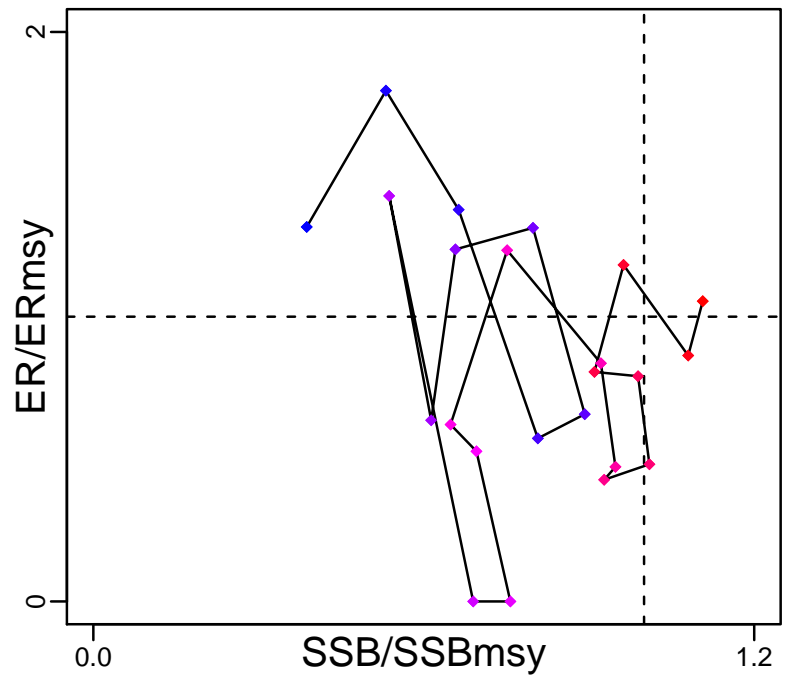
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	86,100	-	-
SSB	SSB-MT	2015	24,700	Females	-
TN	-	-	-	-	-
R	R-E00	2015	14,700,000	-	-
F	F-1/yr	2015	0.2	-	-
ER	ER-calc-ratio	2015	0.06	-	-
TC	TC-MT	2015	5430		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	3.299		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.274		
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]

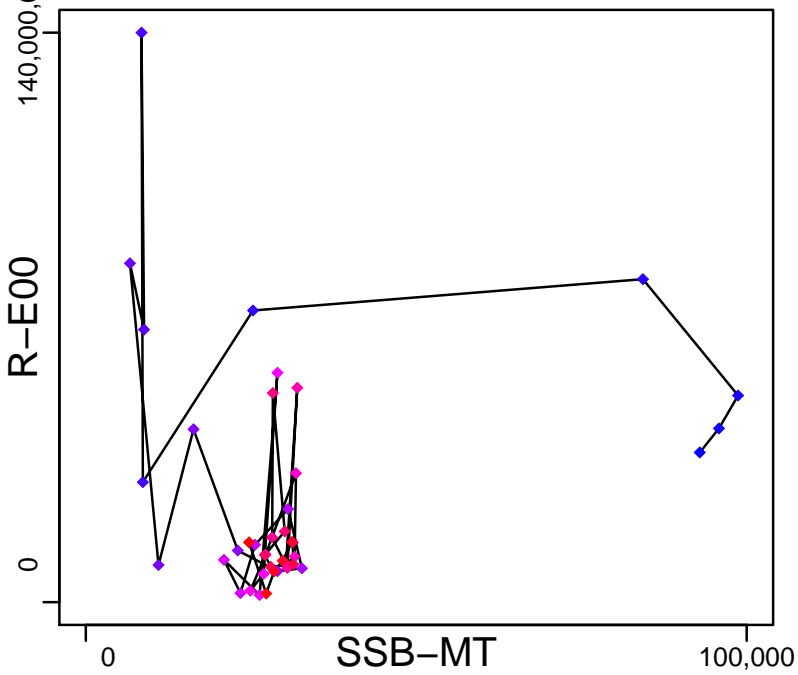
Kobe MSYpref (1960–2008–JENSEN)



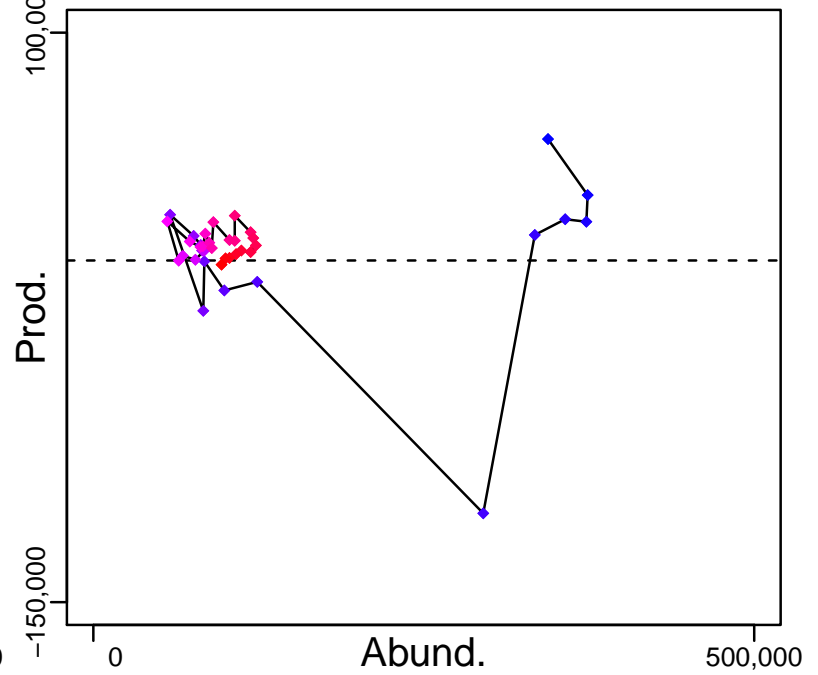
Kobe MGTpref (1960–2008–JENSEN)



Spawner Recruit (1975–2015–SISIMP2016)



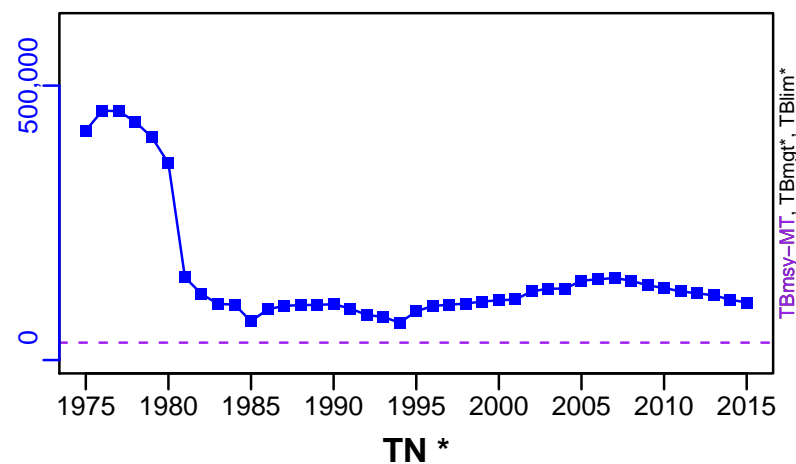
Production (1975–2015–SISIMP2016)



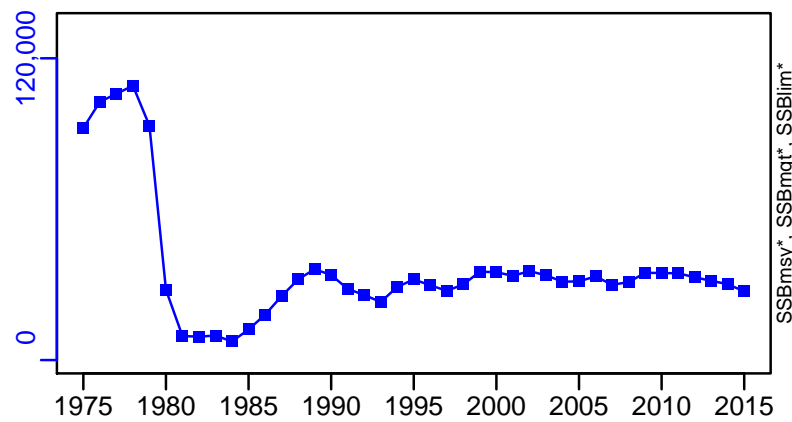
◆ Start Year ◆ End Year * No Data

Red king crab Bristol Bay [RKCRABBB]

TB-MT (1975–2015–SISIMP2016)



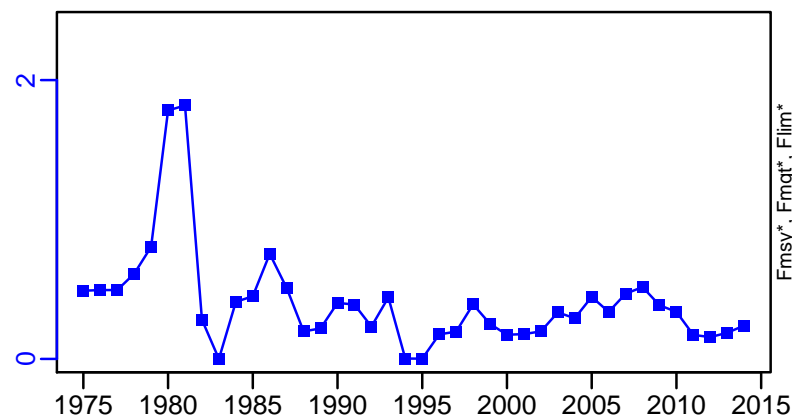
SSB-MT (1975–2015–SISIMP2016)



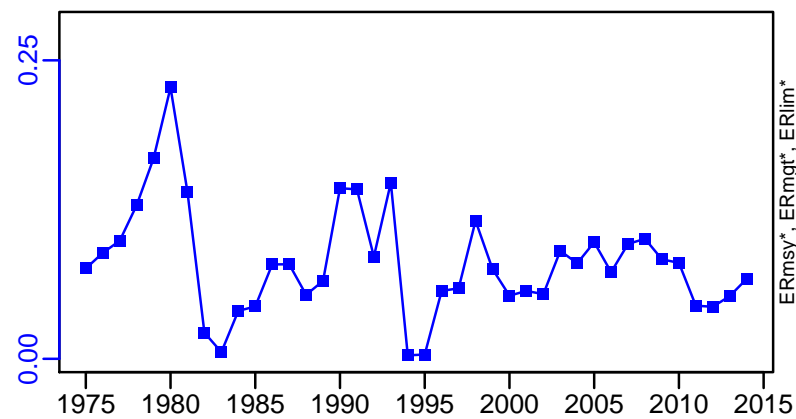
TN *



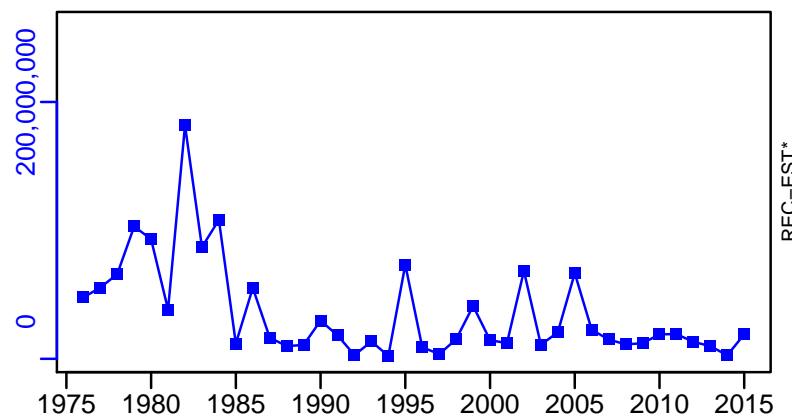
F-1/yr (1975–2015–SISIMP2016)



ER-calc-ratio (1975–2015–SISIMP2016)

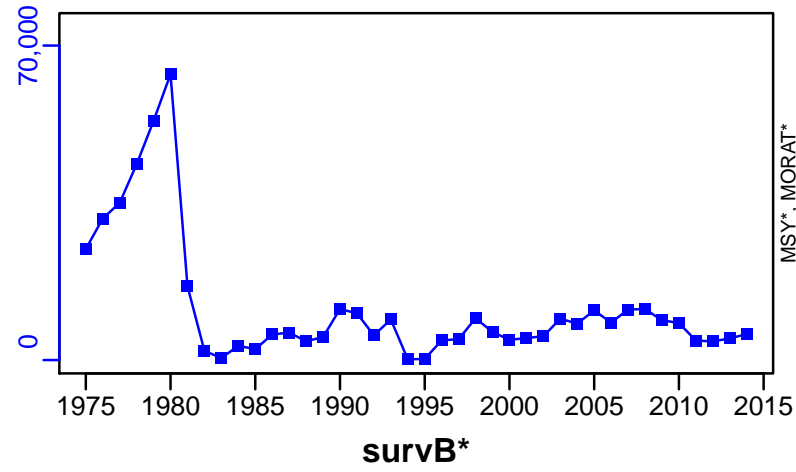


R-E00 (1975–2015–SISIMP2016)



Red king crab Bristol Bay [RKCRA BBB]

TC-MT, TL*, RecC* (1975-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



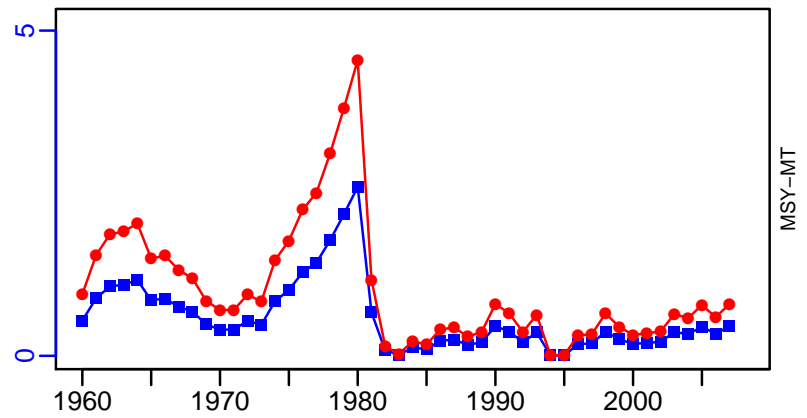
CPUE*



EFFORT*



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



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

Red king crab Norton Sound [RKCRA BNS]

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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	1618
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	2008	2380	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2008	42		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.471		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red king crab Norton Sound [RKCRA BNS]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



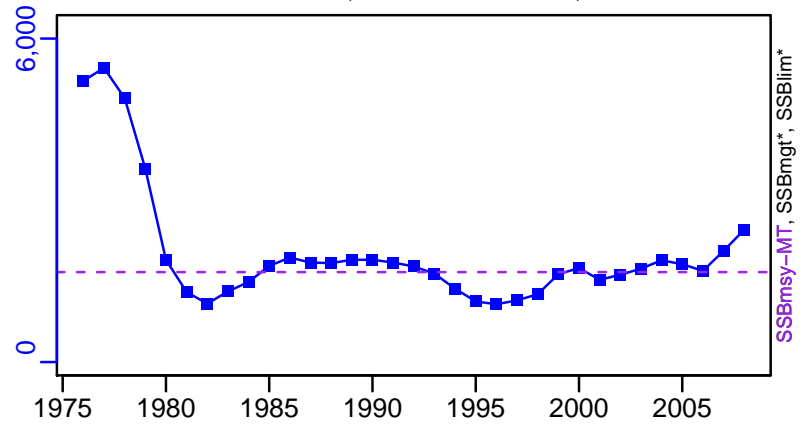
◆ Start Year ◆ End Year * No Data

Red king crab Norton Sound [RKCRABNS]

TB*



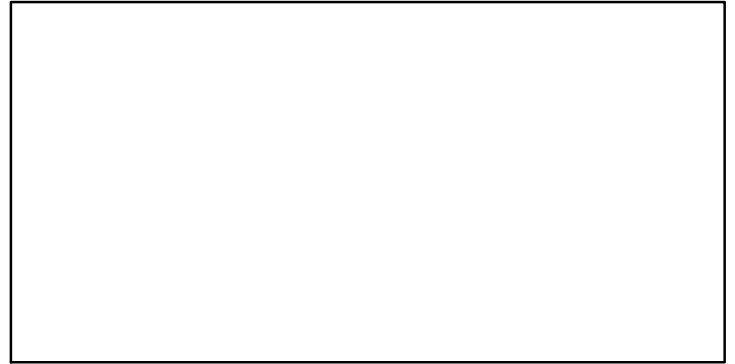
SSB-MT (1976-2008-JENSEN)



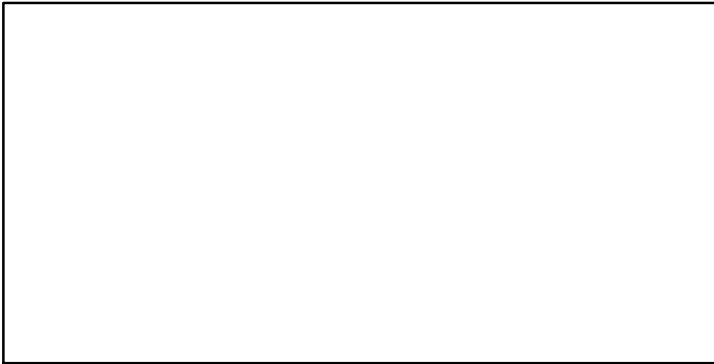
TN *



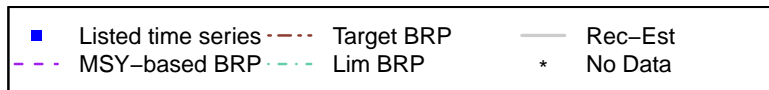
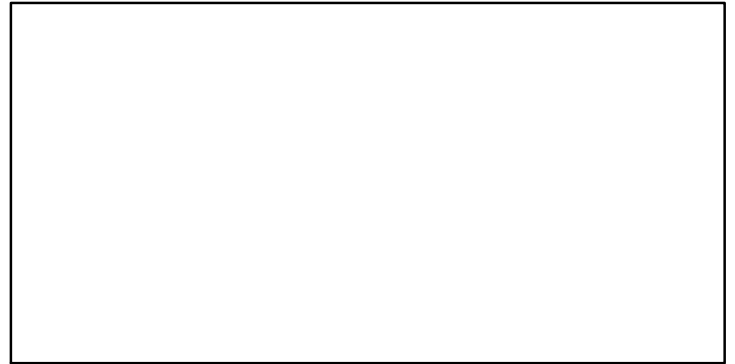
F*



ER*



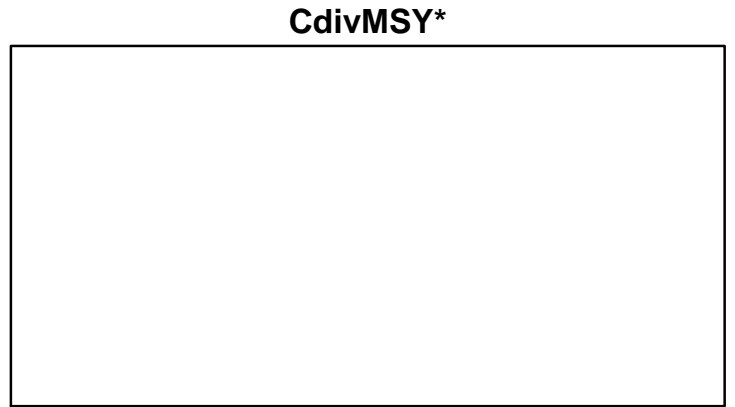
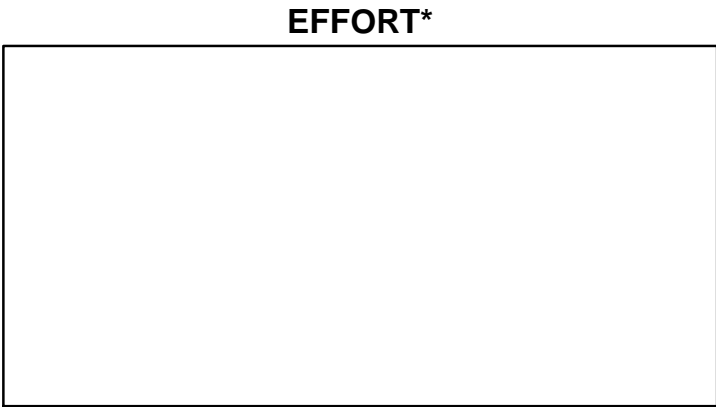
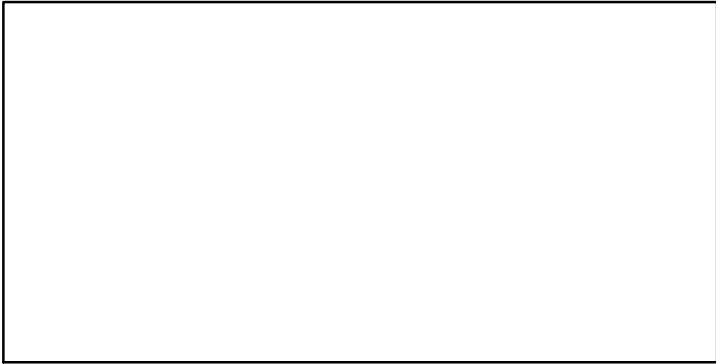
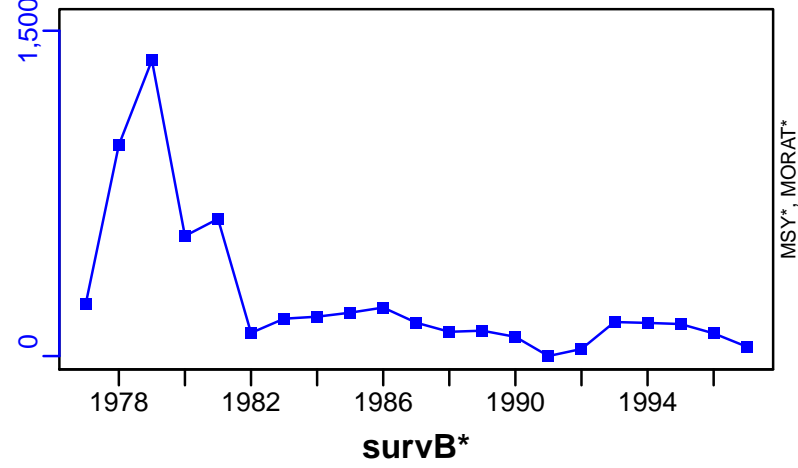
Recruits*



Red king crab Norton Sound [RKCRABNS]

TC-MT, TL*, RecC* (1976-2008-JENSEN)

TAC*, Cpair*, Cadv*



Red king crab Pribilof Islands [RKCRAPI]

Metadata	
Scientific Name	Paralithodes camtschaticus
Current Assess ID	AFSC-RKCRAPI-1981-2009-JENSEN
Area	Pribilof Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	7790	-	-
SSB	SSB-MT	2009	5670	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2009	0	-	-
TC	TC-MT	2009	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
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]

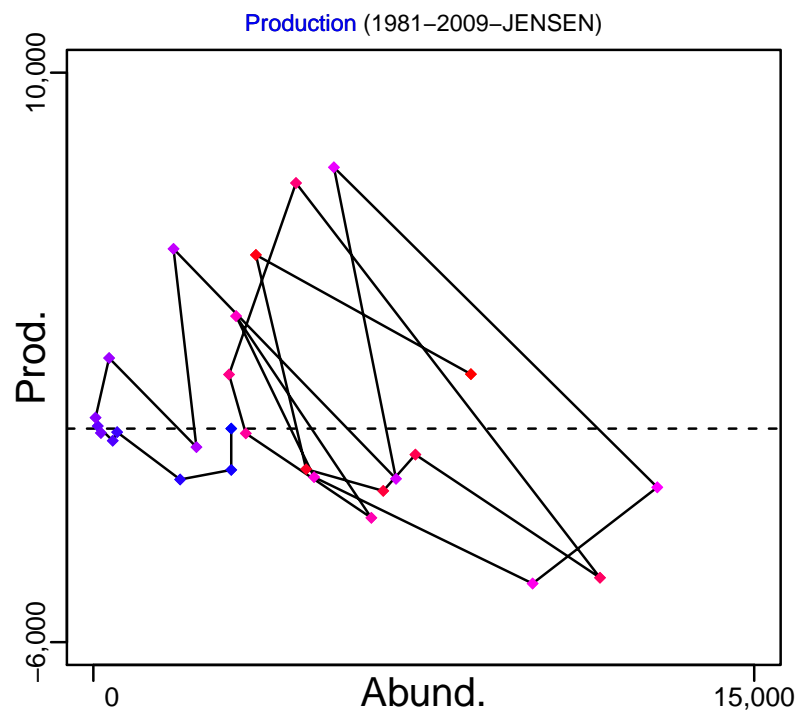
Kobe MSY*



Kobe MGT*



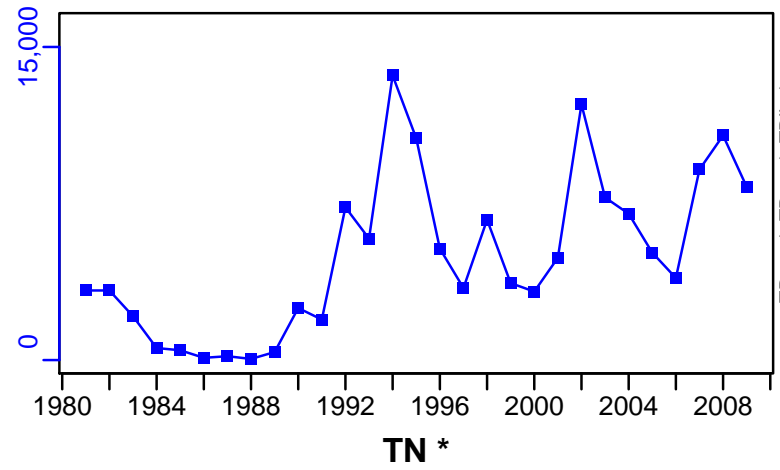
Spawner Recruit*



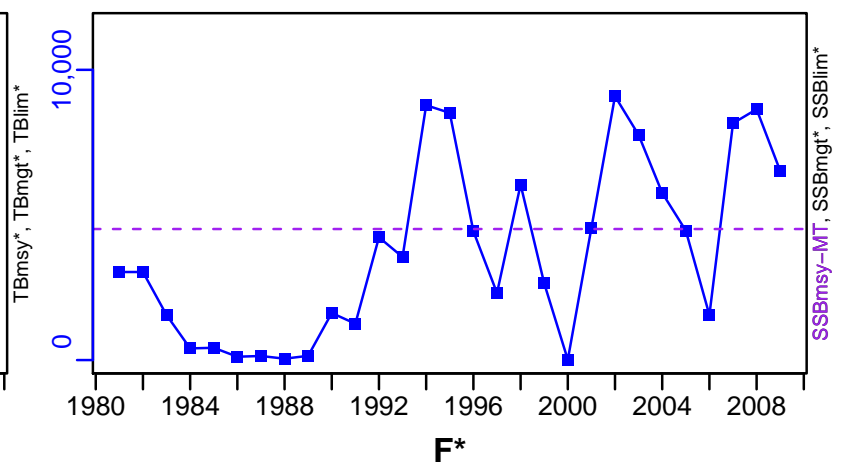
◆ Start Year ◆ End Year * No Data

Red king crab Pribilof Islands [RKCRABPI]

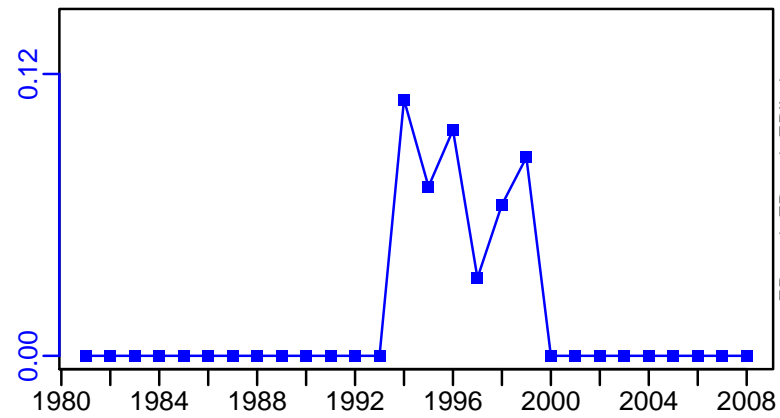
TB-MT (1981-2009-JENSEN)



SSB-MT (1981-2009-JENSEN)



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



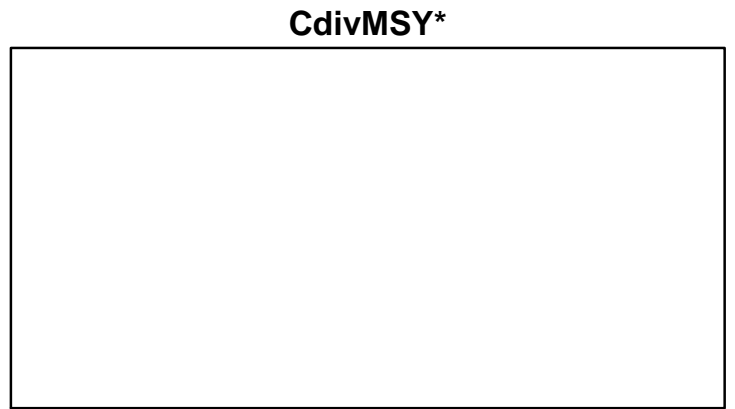
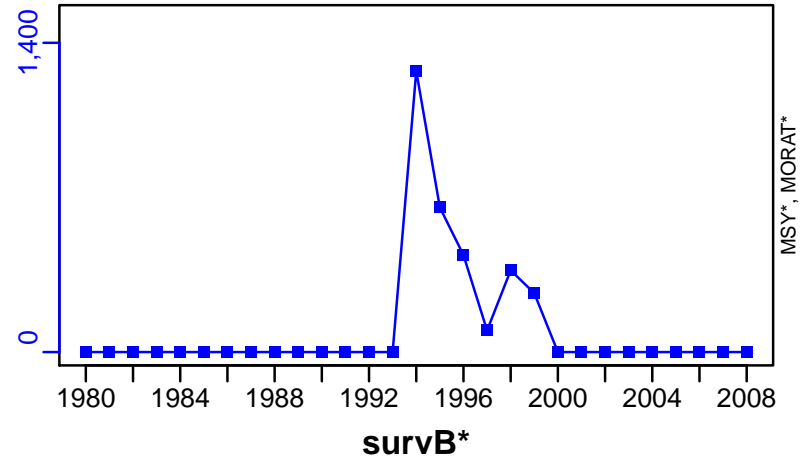
Recruits*



Red king crab Pribilof Islands [RKCRA BPI]

TC-MT, TL*, RecC* (1981-2009-JENSEN)

TAC*, Cpair*, Cadv*



Rock sole Gulf of Alaska [RSOLEGA]

Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	AFSC-RSOLEGA-1977-2015-SISIMP2016
Area	Gulf of Alaska
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-MT	2015	32,700
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	2015	156,000	-	3+
SSB	SSB-MT	2015	84,000	Females	-
TN	-	-	-	-	-
R	R-E00	2015	2.22×10^8	-	0
F	F-1/yr	2015	0.01	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2015	1720		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	2.569		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Gulf of Alaska [RSOLEGA]

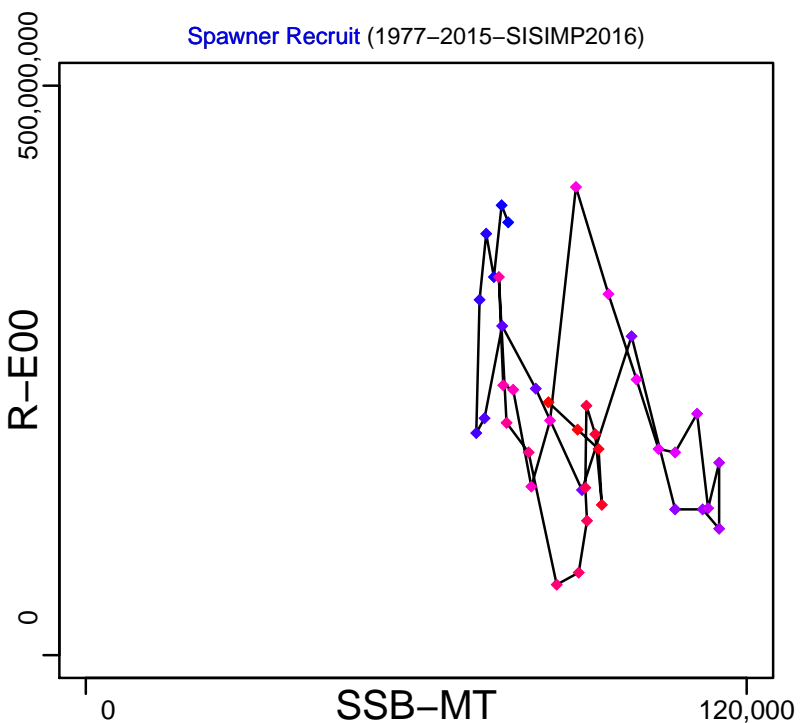
Kobe MSY*



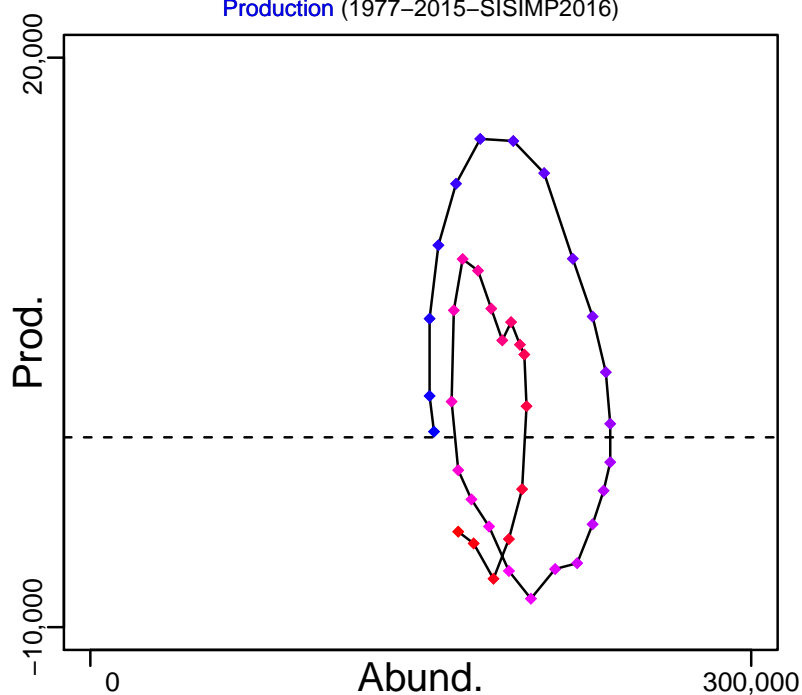
Kobe MGT*



Spawner Recruit (1977–2015–SISIMP2016)



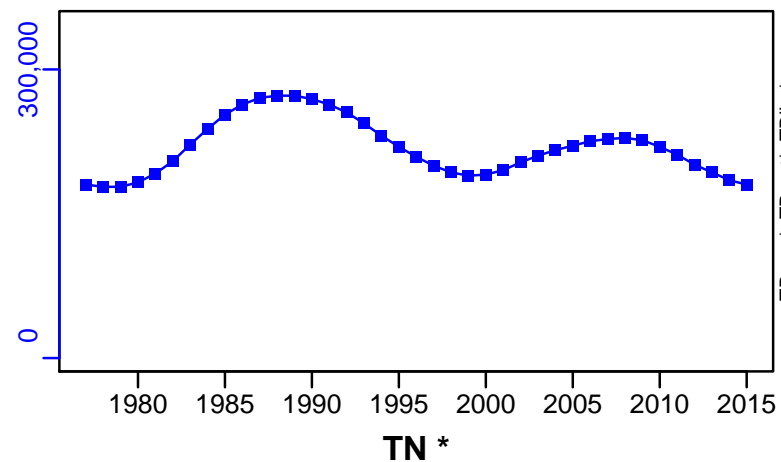
Production (1977–2015–SISIMP2016)



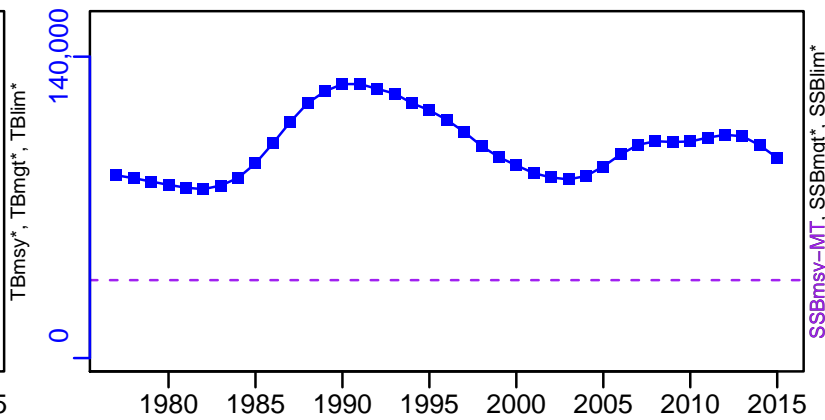
◆ Start Year ◆ End Year * No Data

Rock sole Gulf of Alaska [RSOLEGA]

TB-MT (1977-2015-SISIMP2016)



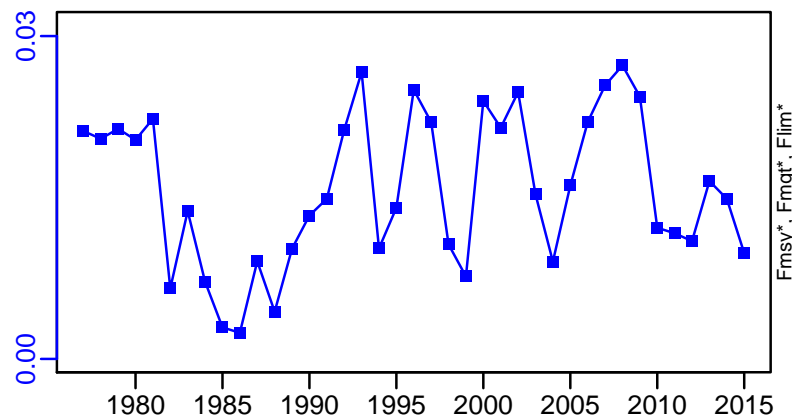
SSB-MT (1977-2015-SISIMP2016)



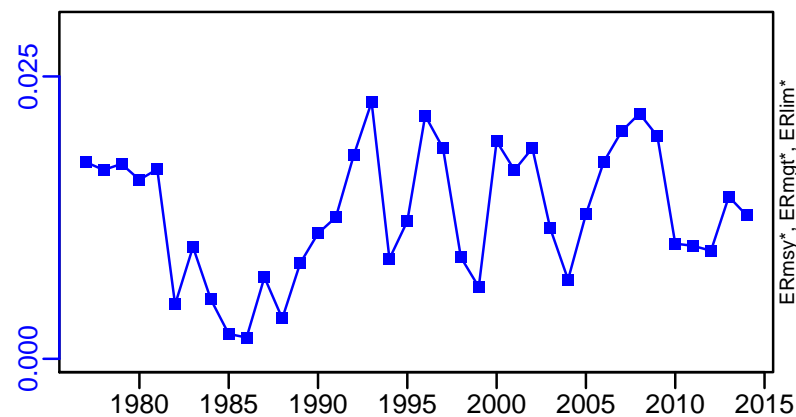
TN *



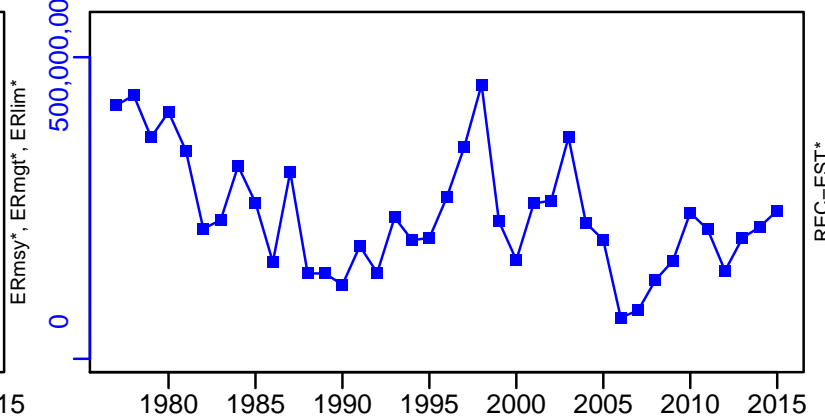
F-1/yr (1977-2015-SISIMP2016)



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



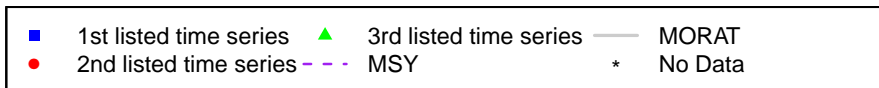
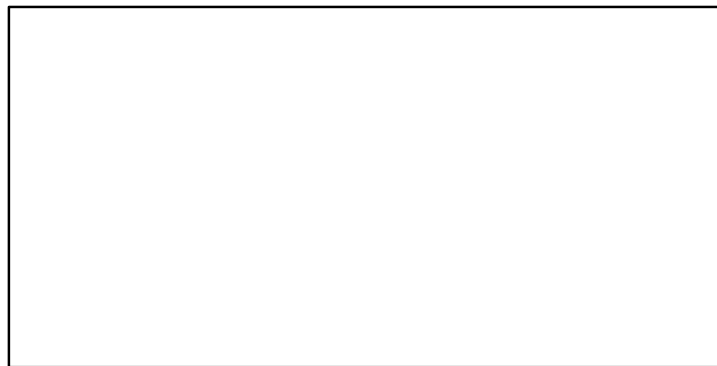
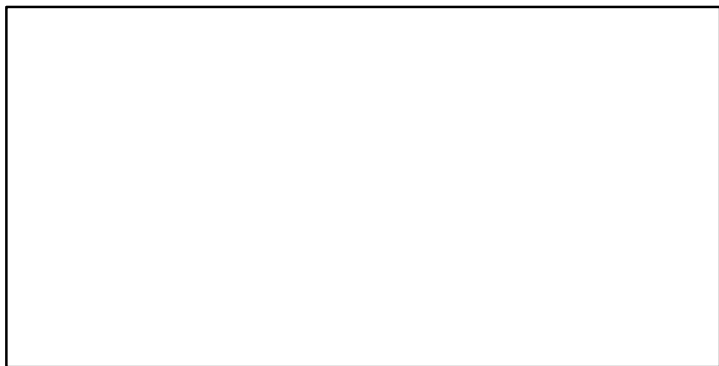
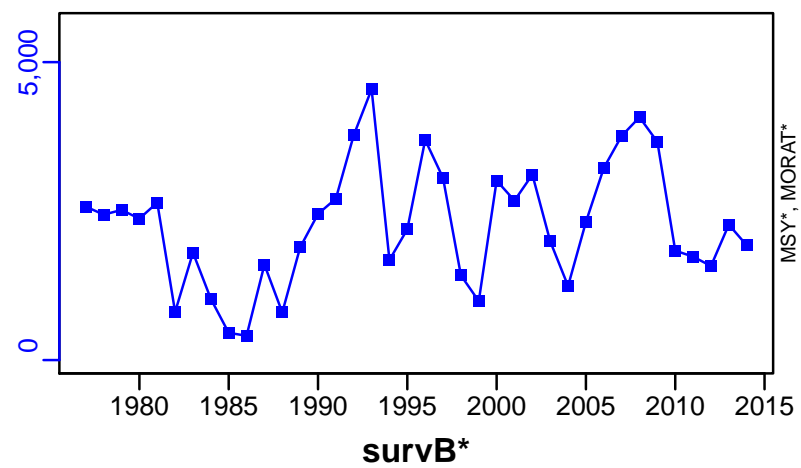
R-E00 (1977-2015-SISIMP2016)



Rock sole Gulf of Alaska [RSOLEGA]

TC-MT, TL*, RecC* (1977-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



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

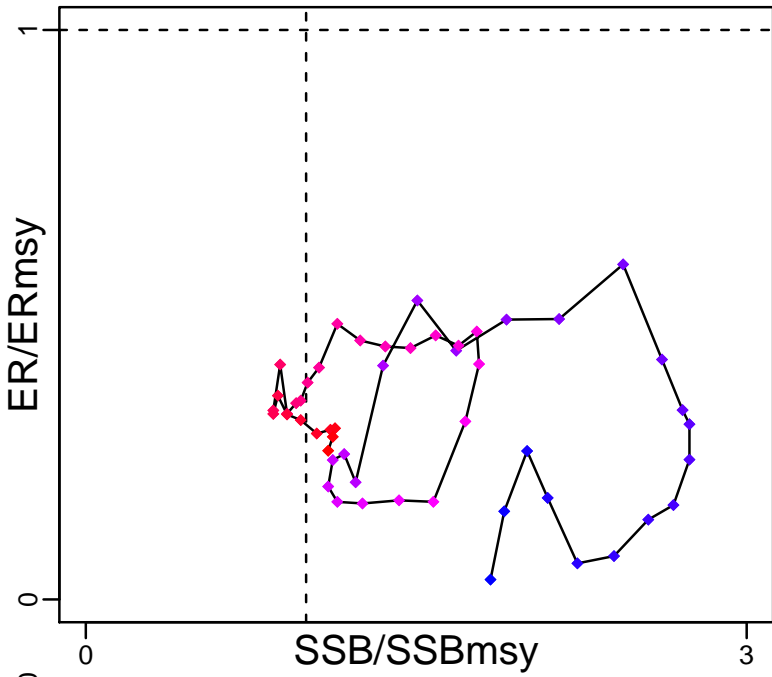
Metadata	
Scientific Name	Anoplopoma fimbria
Current Assess ID	AFSC-SABLEFEBSAIGA-1960-2015-SISIMP2016
Area	Eastern Bering Sea / Aleutian Islands / Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	96,345
SSBmsy	SSBmsy-MT	2015	89,956
Fmsy	Fmsy-pr-1/yr	2010	0.106
ERmsy	ERmsy-ratio	2010	0.197
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2010	275,270
MSY	MSY-MT	2010	18,950
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.115
ERlim	-	-	-

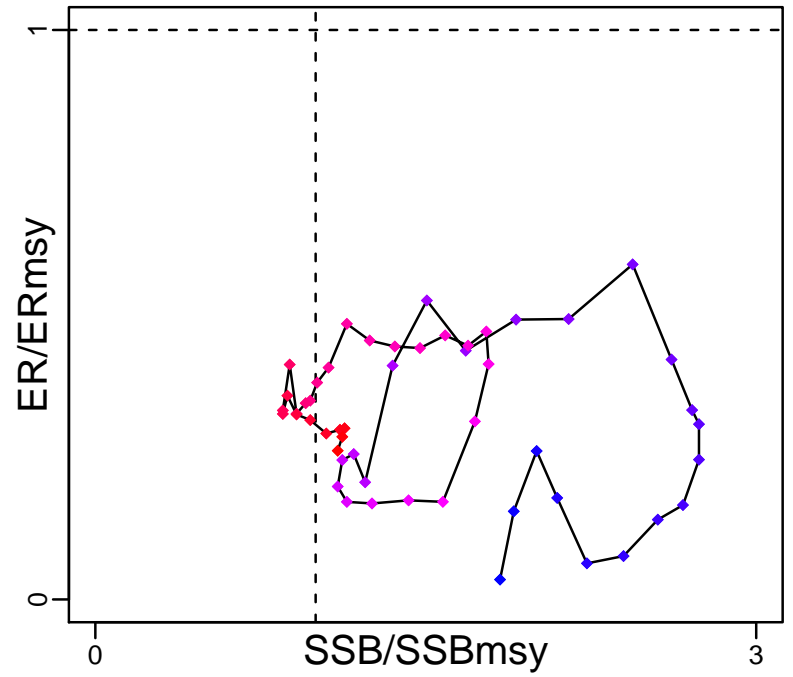
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	202,000	Both	2+
SSB	SSB-MT	2015	90,000	Females	6.6
TN	-	-	-	-	-
R	R-E00	2015	13,300,000	-	2
F	F-1/yr	2015	0.064	-	-
ER	ER-calc-ratio	2015	0.058	-	-
TC	TC-MT	2015	12,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.283		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.585		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2010	0.261		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

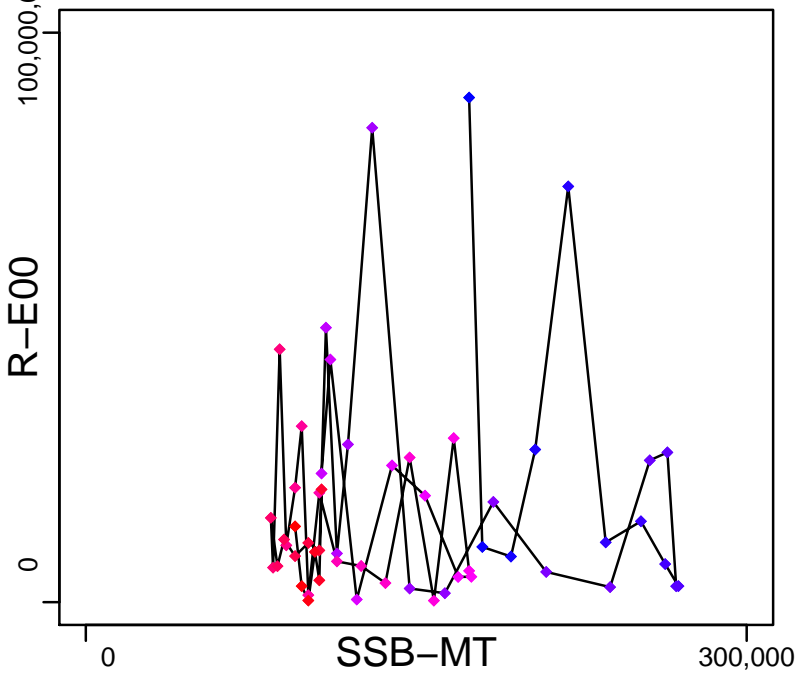
Kobe MSYpref (1958–2010–STACHURA)



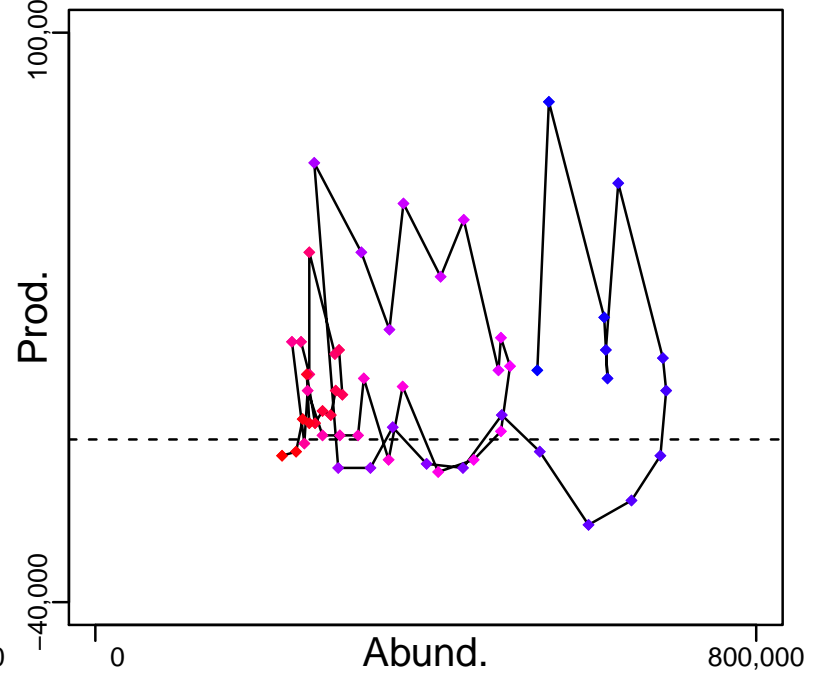
Kobe MGTpref (1958–2010–STACHURA)



Spawner Recruit (1960–2015–SISIMP2016)



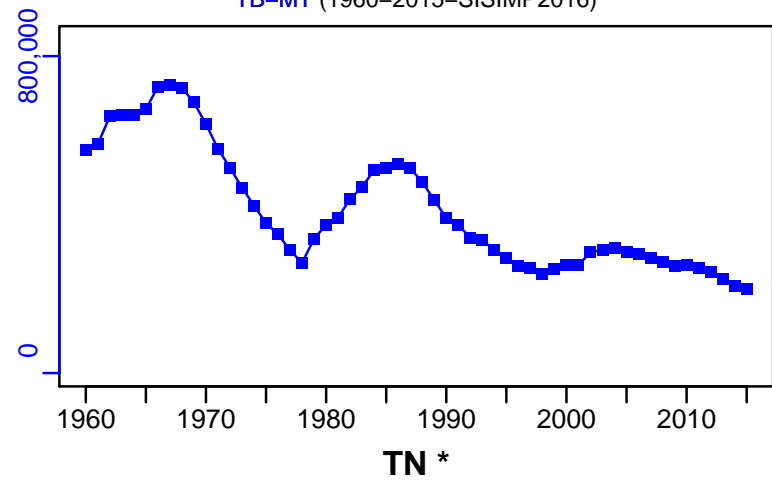
Production (1960–2015–SISIMP2016)



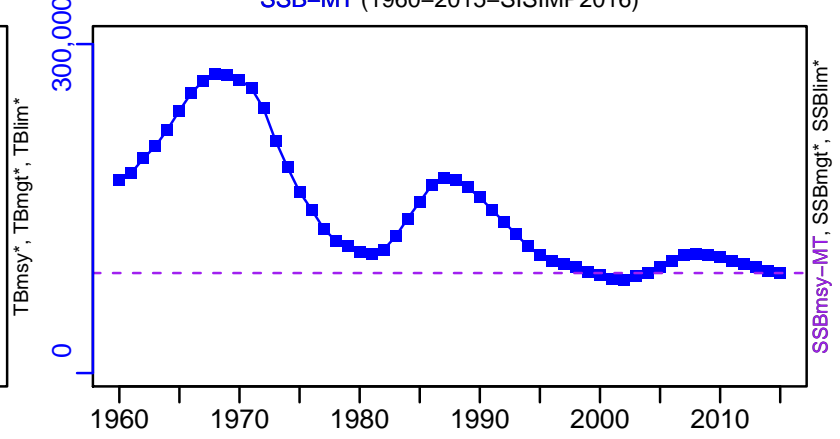
◆ Start Year ◆ End Year * No Data

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

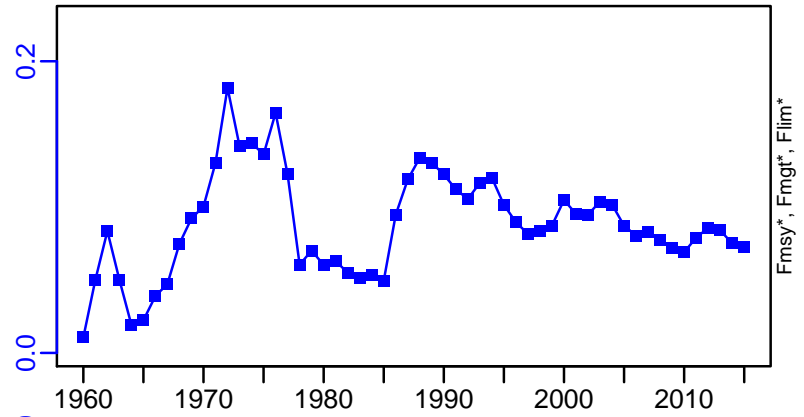
TB-MT (1960–2015–SISIMP2016)



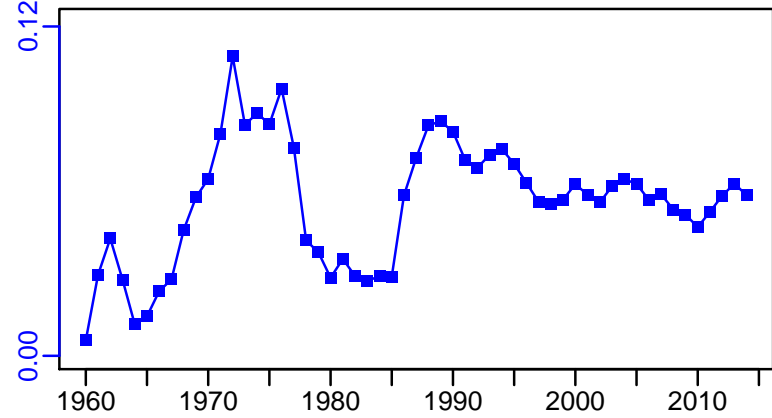
SSB-MT (1960–2015–SISIMP2016)



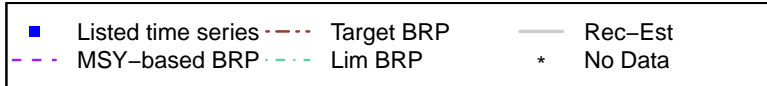
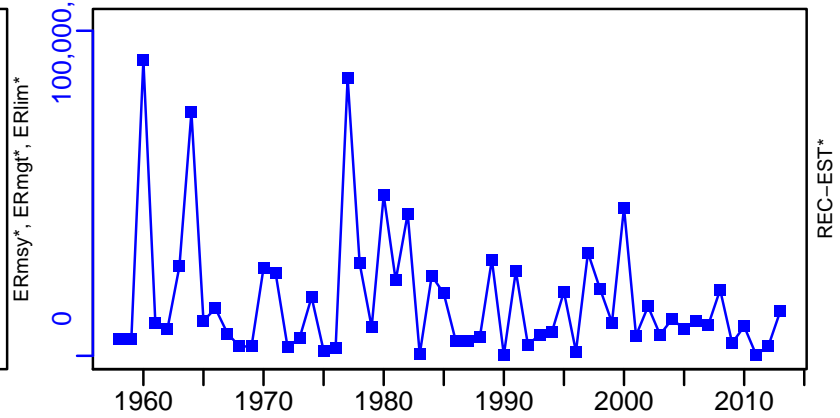
F-1/yr (1960–2015–SISIMP2016)



ER-calc-ratio (1960–2015–SISIMP2016)



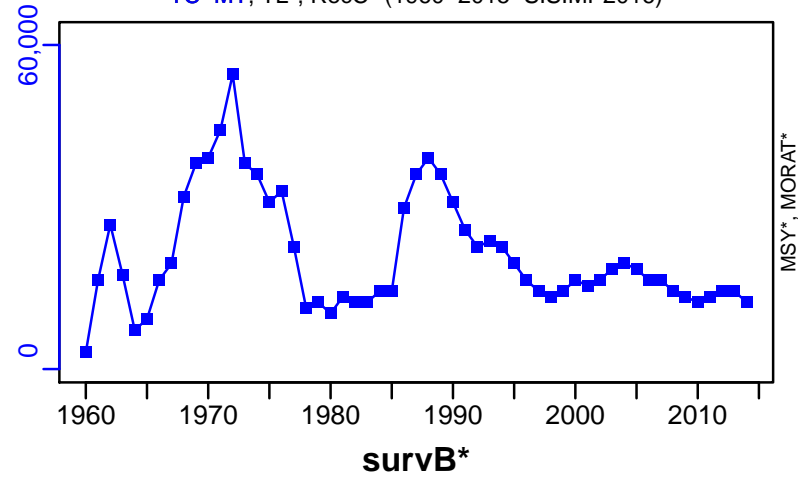
R-E00 (1960–2015–SISIMP2016)



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

TC-MT, TL*, RecC* (1960-2015-SISIMP2016)

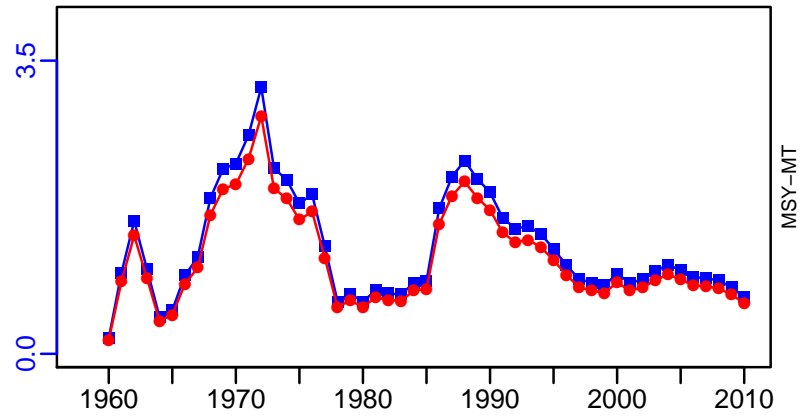
TAC*, Cpair*, Cadv*



EFFORT*



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



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

Snow crab Bering Sea [SNOWCRABBS]

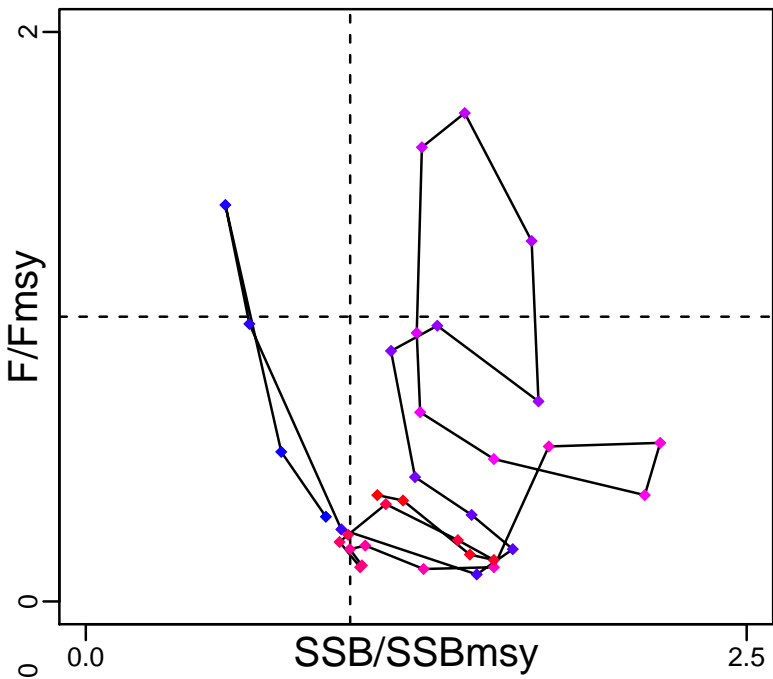
Metadata	
Scientific Name	Chionoecetes opilio
Current Assess ID	AFSC-SNOWCRABBS-1979-2015-SISIMP2016
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	146,357
SSBmsy	SSBmsy-pr-MT	2013	154,170
Fmsy	Fmsy-pr-1/yr	2013	1.58
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

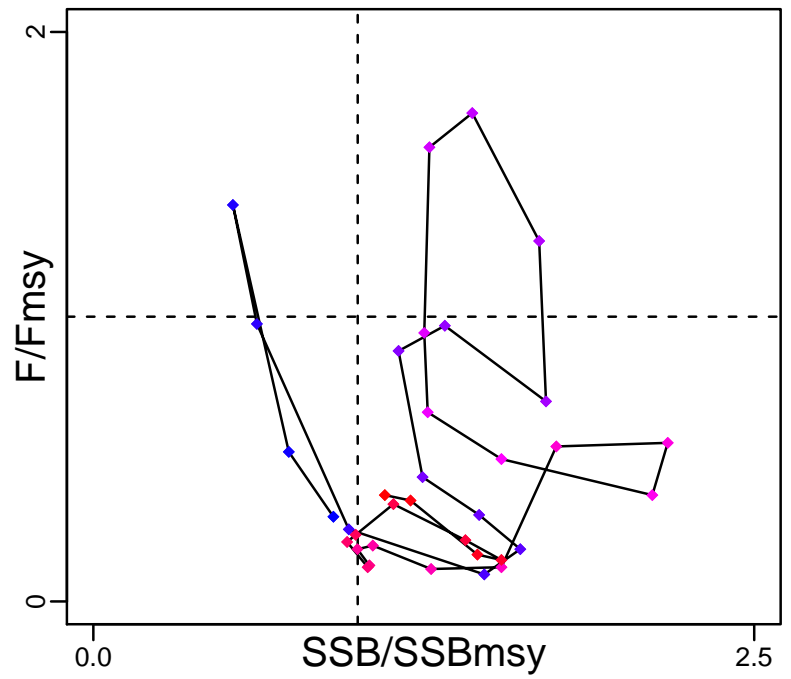
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	777,000	-	-
SSB	SSB-MT	2015	168,000	Females	-
TN	-	-	-	-	-
R	R-E00	2015	1.39×10^9	-	-
F	F-1/yr	2015	0.54	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2015	27,800		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	5.309		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2013	1.103		
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]

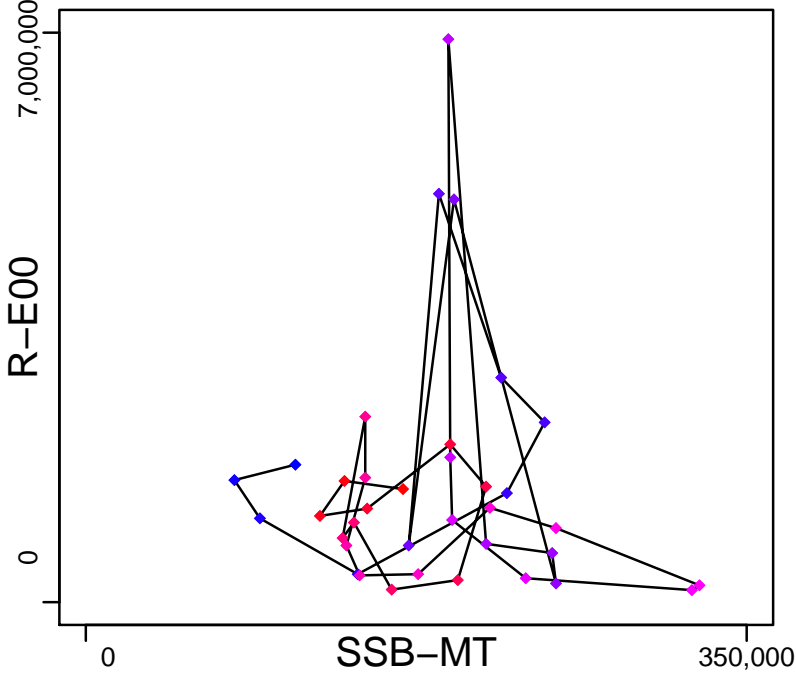
Kobe MSYpref (1978–2013–HIVELY)



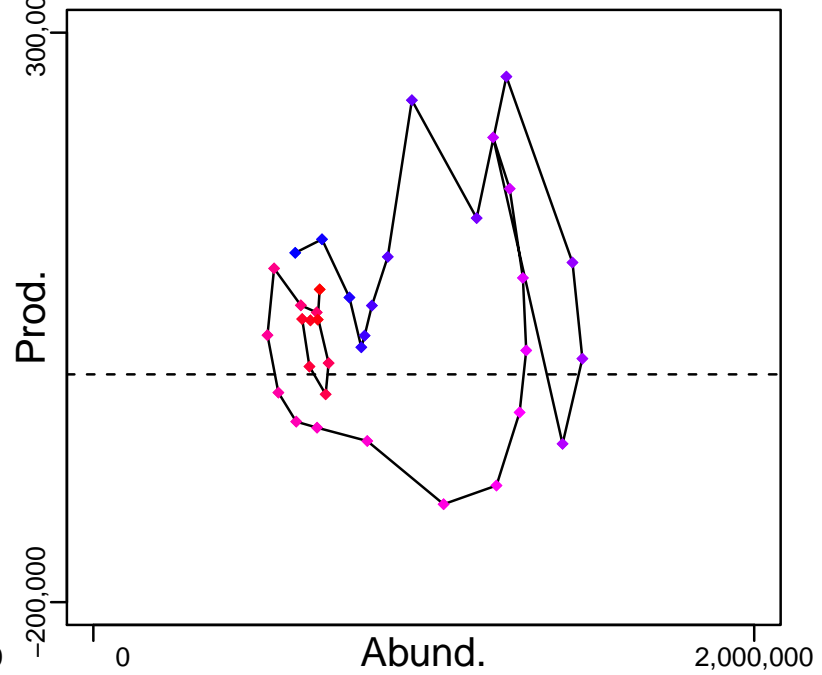
Kobe MGTpref (1978–2013–HIVELY)



Spawner Recruit (1979–2015–SISIMP2016)



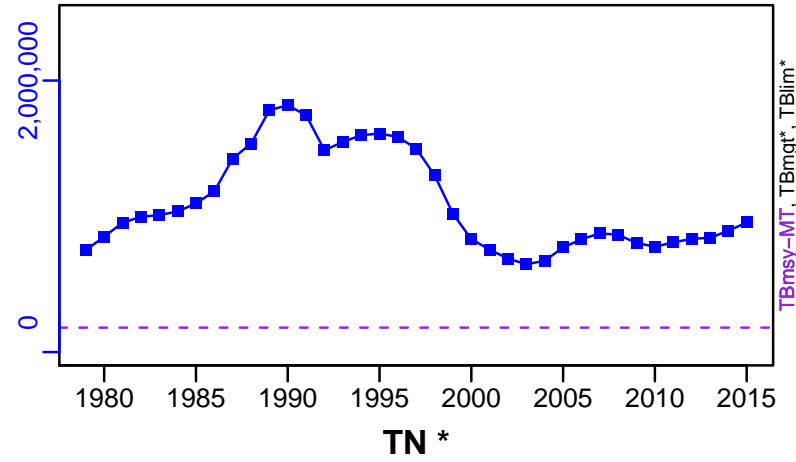
Production (1979–2015–SISIMP2016)



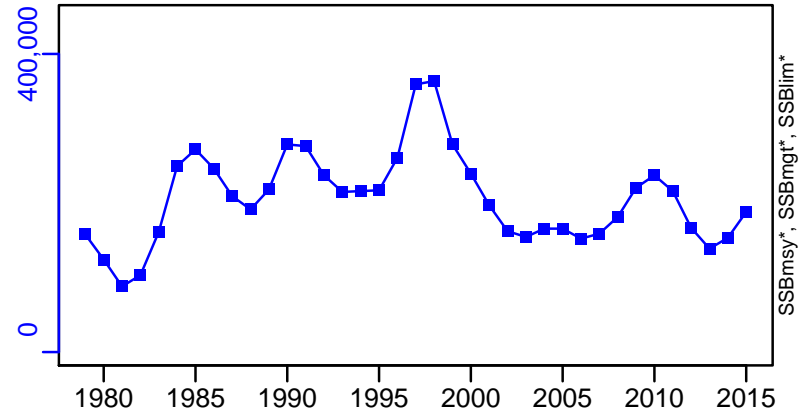
◆ Start Year ◆ End Year * No Data

Snow crab Bering Sea [SNOWCRABBS]

TB-MT (1979–2015–SISIMP2016)



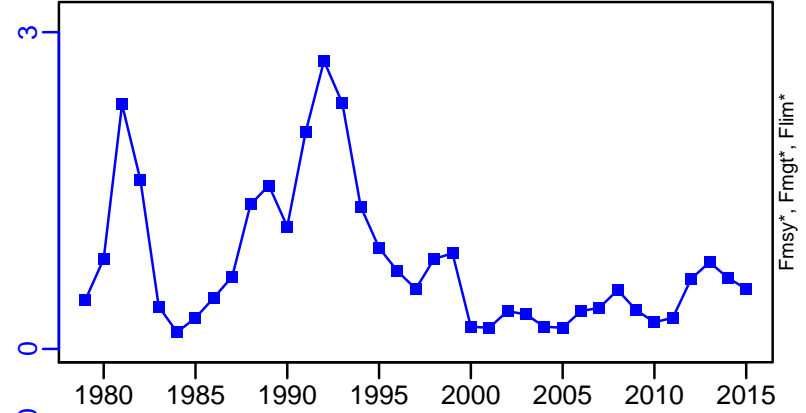
SSB-MT (1979–2015–SISIMP2016)



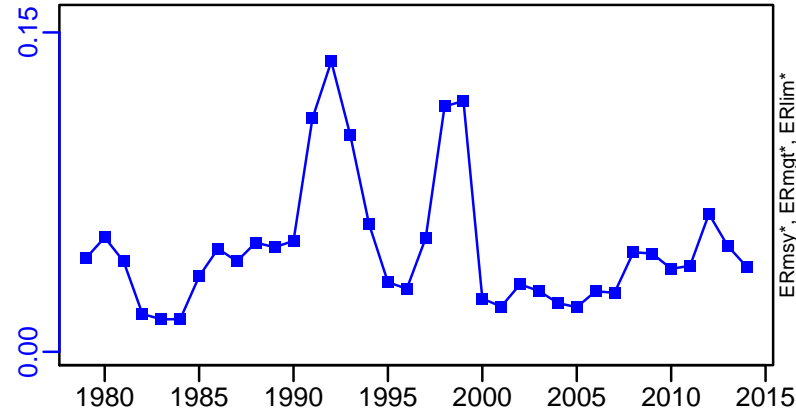
TN *



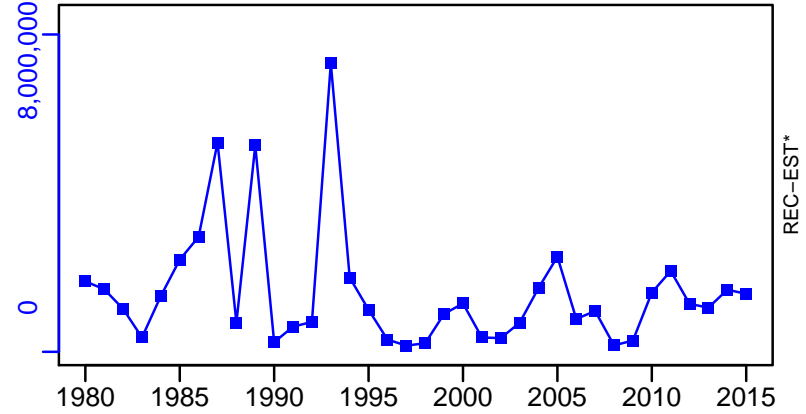
F-1/yr (1979–2015–SISIMP2016)



ER-calc-ratio (1979–2015–SISIMP2016)



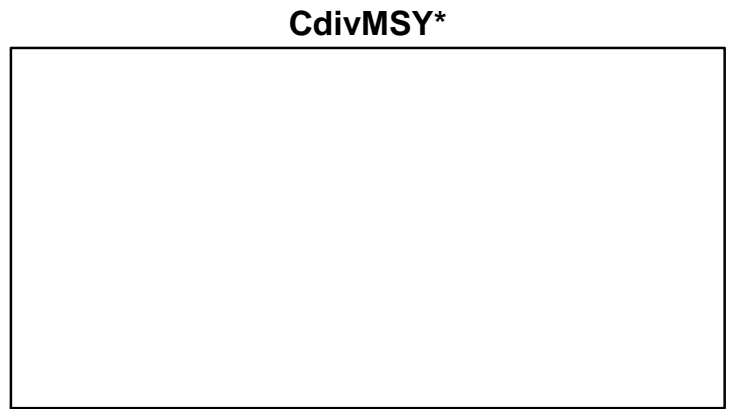
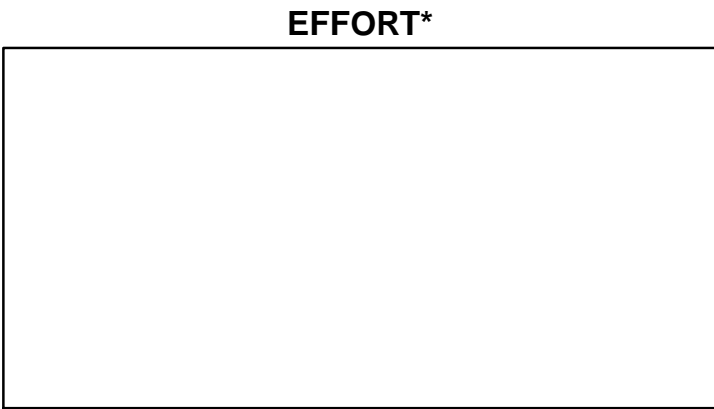
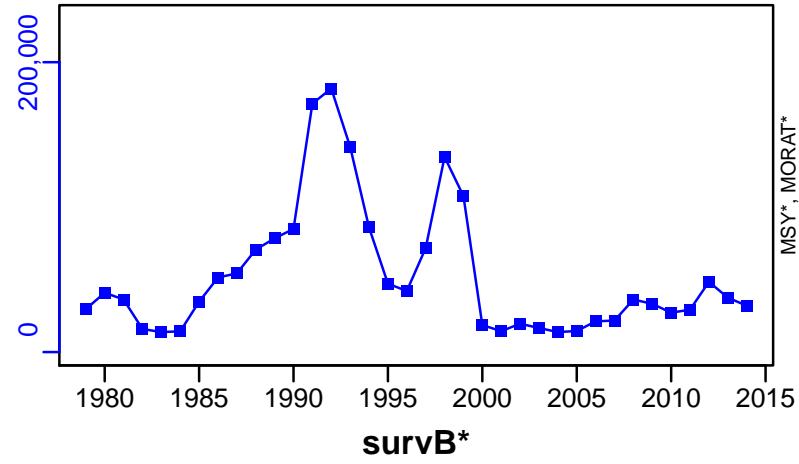
R-E00 (1979–2015–SISIMP2016)



Snow crab Bering Sea [SNOWCRABBS]

TC-MT, TL*, RecC* (1979-2015-SISIMP2016)

TAC*, Cpair*, Cadv*



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

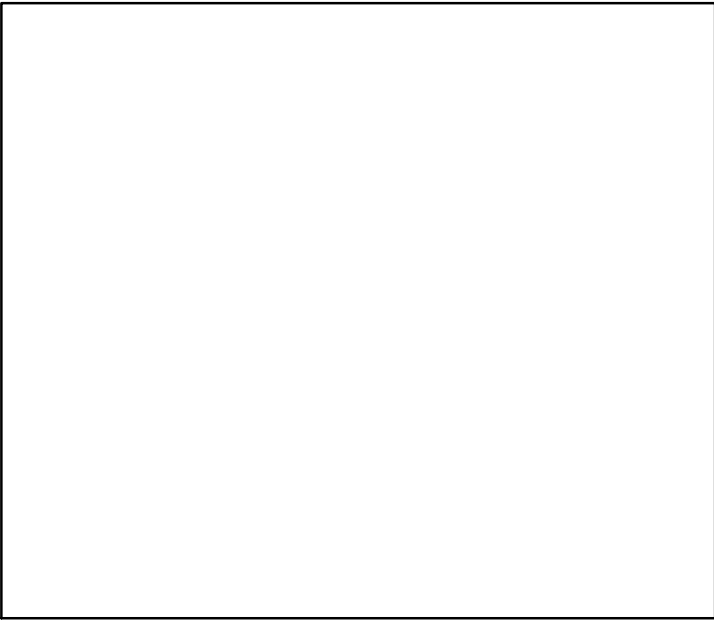
Metadata	
Scientific Name	Sebastes borealis
Current Assess ID	AFSC-SRAKEROCKBSAI-2004-2014-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2014

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

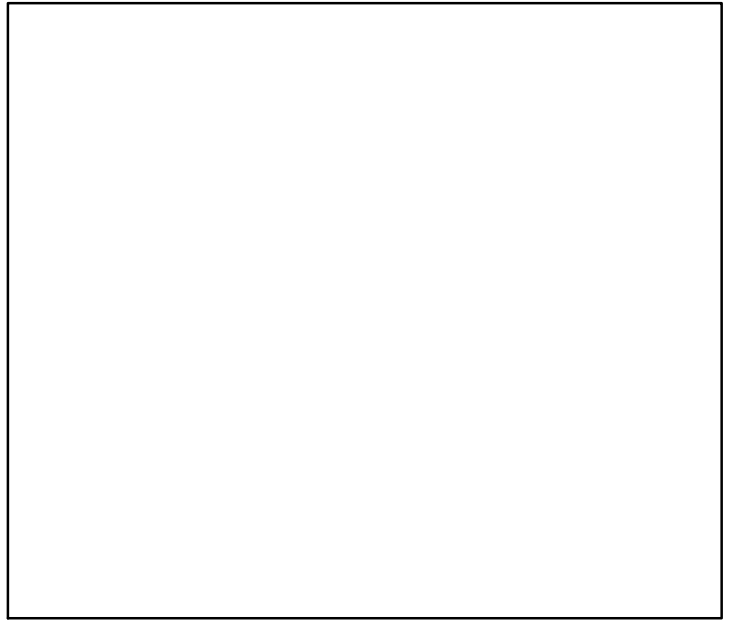
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	23,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.012	Both	-
ER	ER-calc-ratio	2014	0.009	-	-
TC	TC-MT	2014	197		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

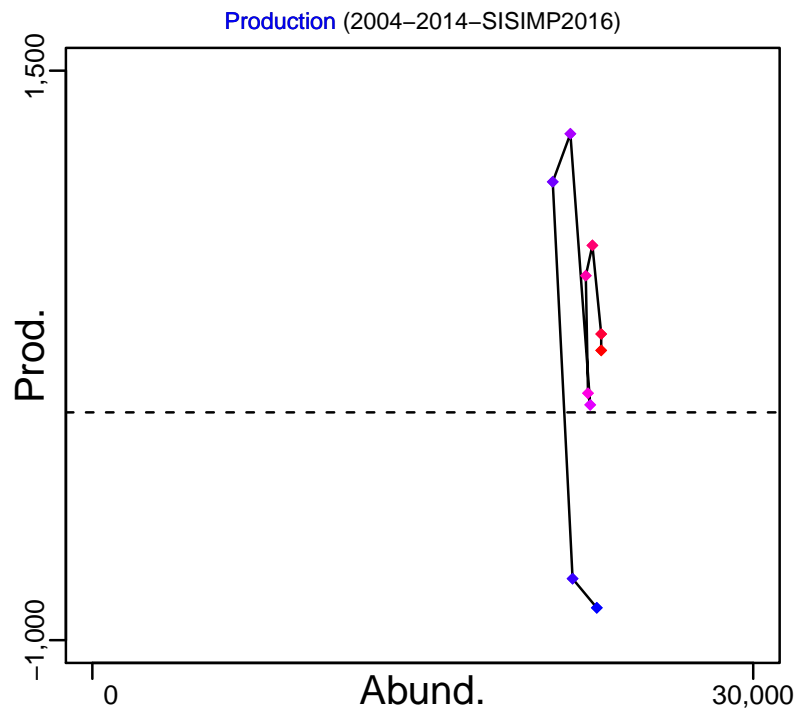
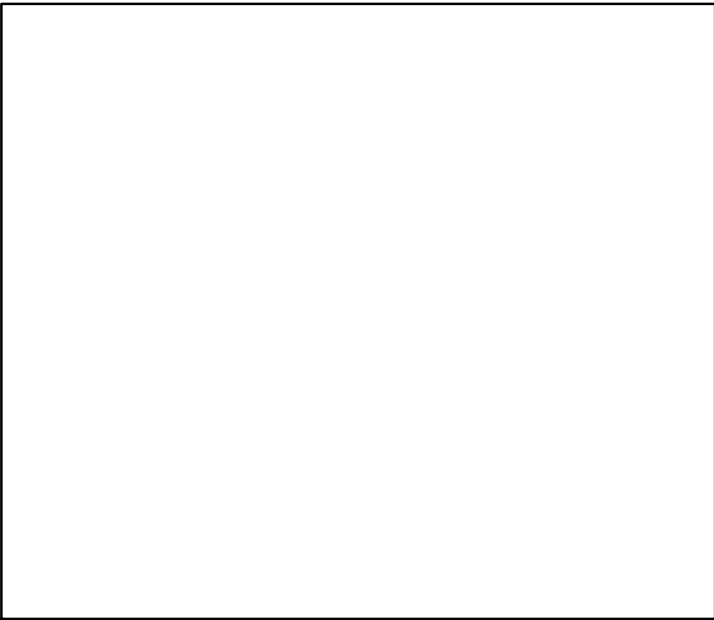
Kobe MSY*



Kobe MGT*



Spawner Recruit*

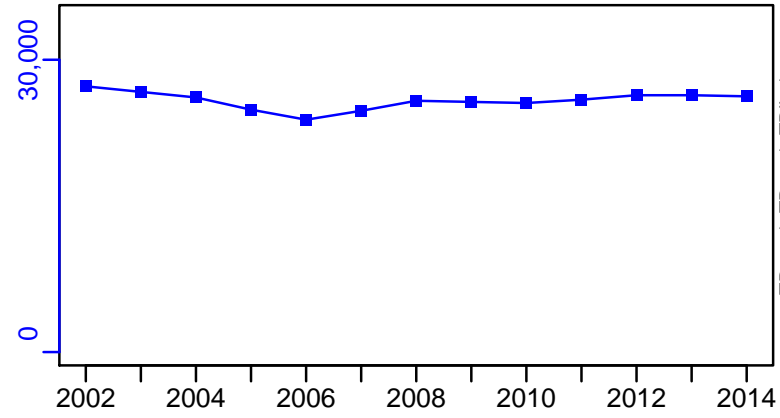


◆ Start Year ◆ End Year * No Data

Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

TB-MT (2004–2014–SISIMP2016)

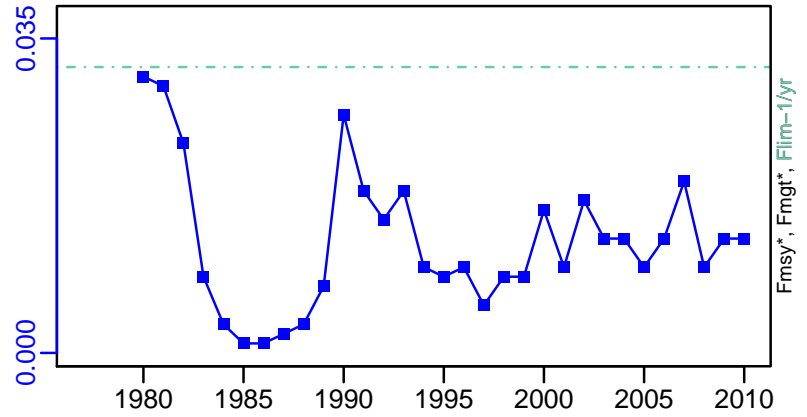
SSB*



TN *

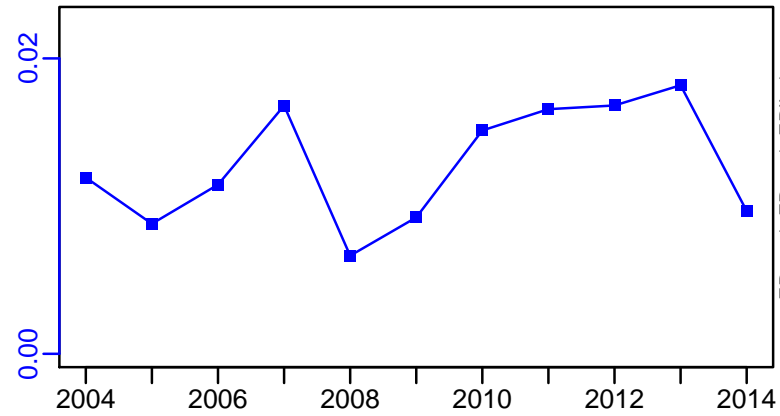


F-1/yr (1977–2010–STACHURA)



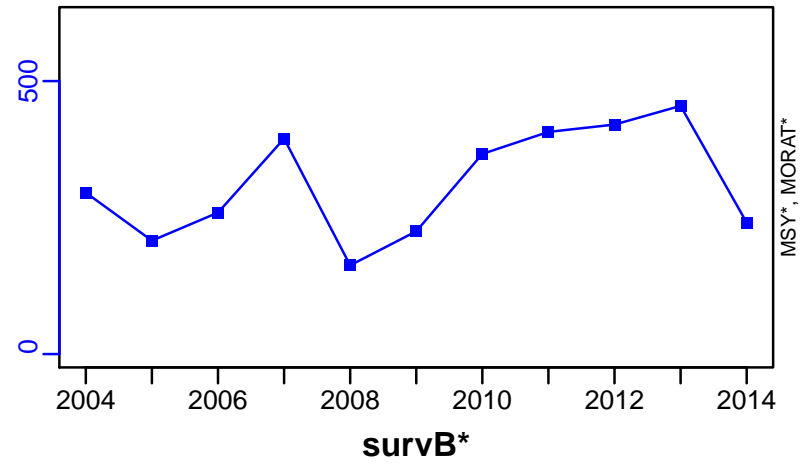
ER-calc-ratio (2004–2014–SISIMP2016)

Recruits*



Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

TC-MT, TL*, RecC* (2004–2014–SISIMP2016)



TAC*, Cpair*, Cadv*



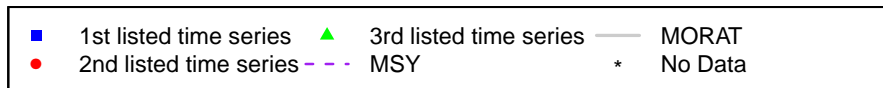
CPUE*



EFFORT*



CdivMSY*

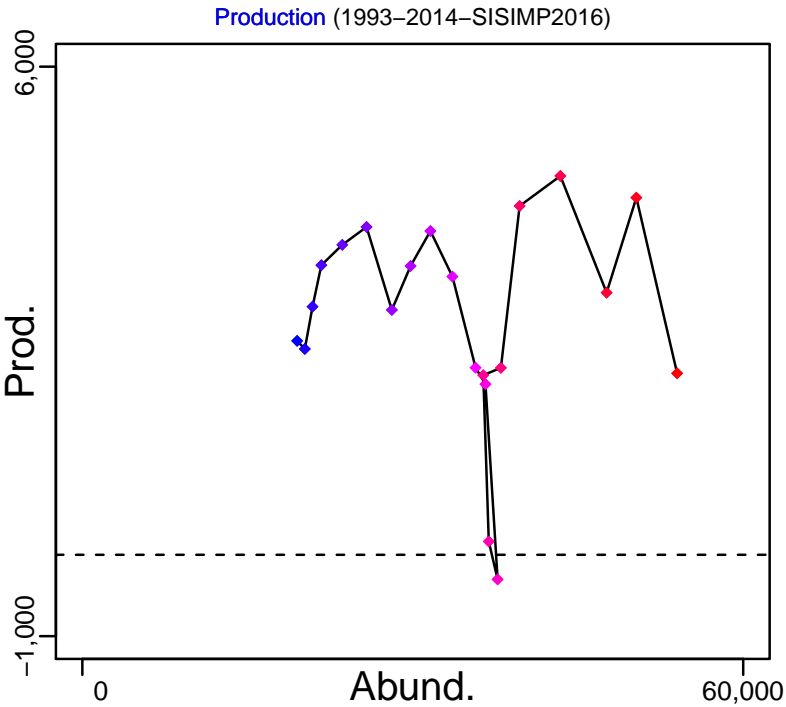


Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

Metadata	
Scientific Name	Sebastes borealis
Current Assess ID	AFSC-SRAKEROCKGA-1993-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	57,200	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.012	-	-
TC	TC-MT	2014	685		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

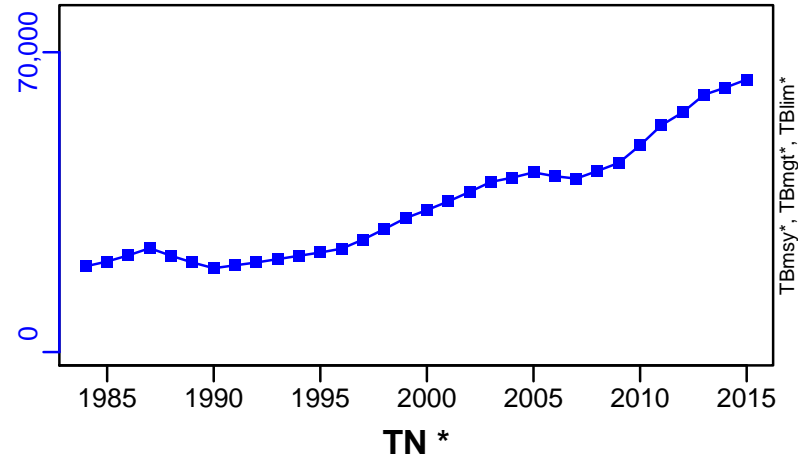


◆ Start Year ◆ End Year * No Data

Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

TB-MT (1993–2014–SISIMP2016)

SSB*

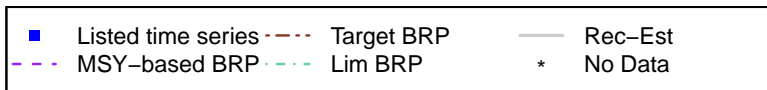
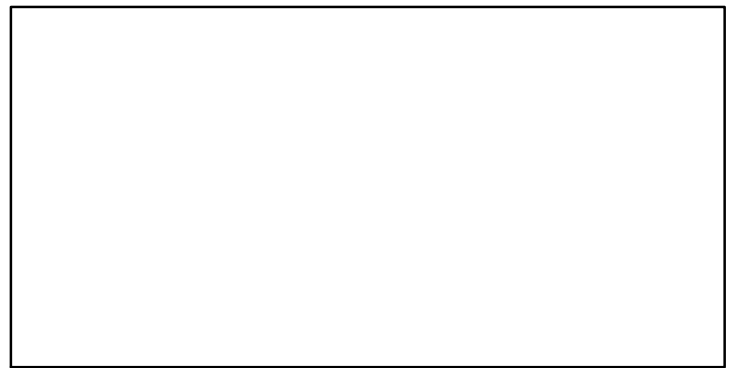
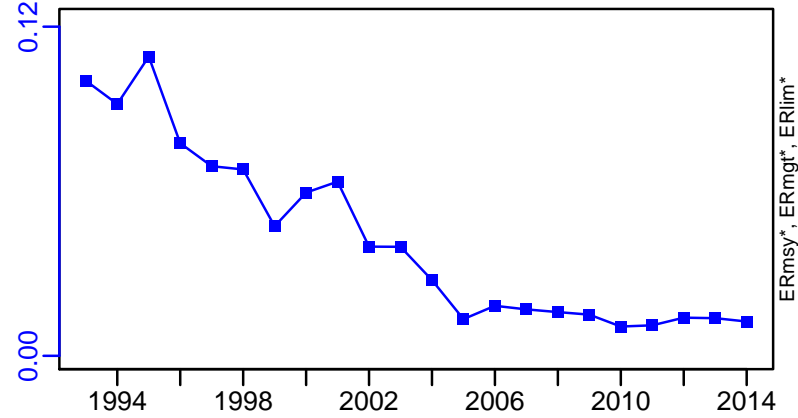


F*



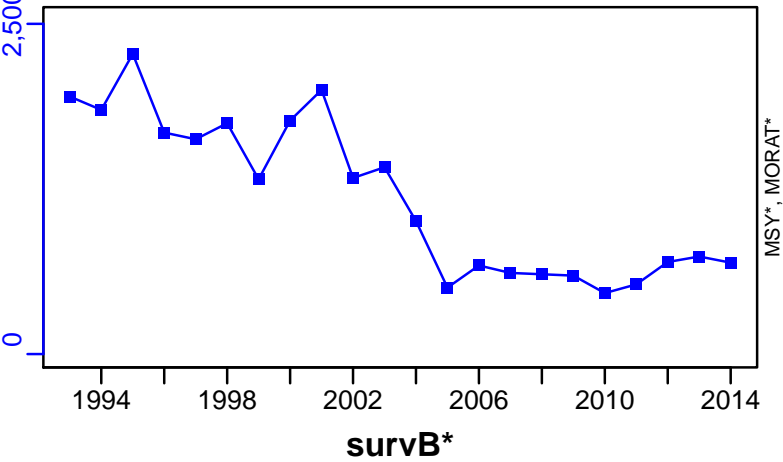
ER-calc-ratio (1993–2014–SISIMP2016)

Recruits*

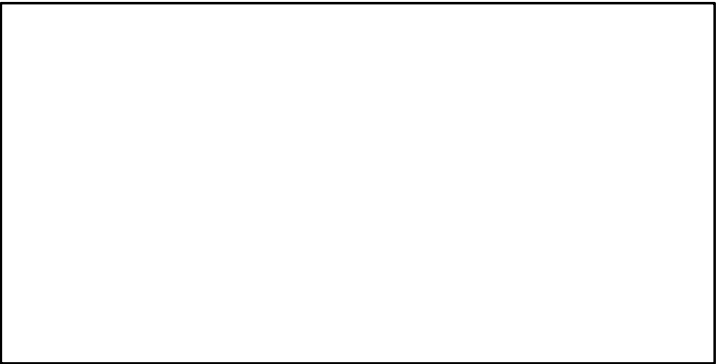


Shortraker rockfish Gulf of Alaska [SRAKEROCKGA]

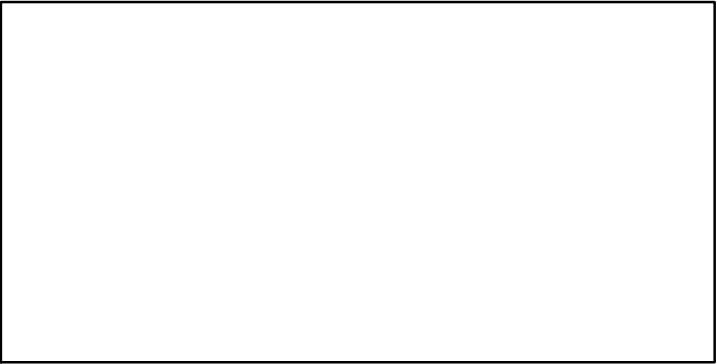
TC-MT, TL*, RecC* (1993-2014-SISIMP2016)



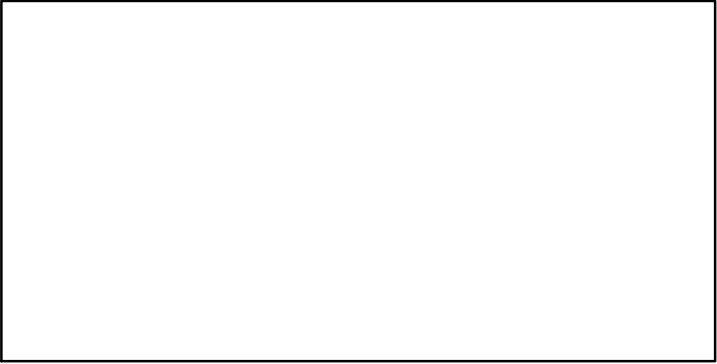
TAC*, Cpair*, Cadv*



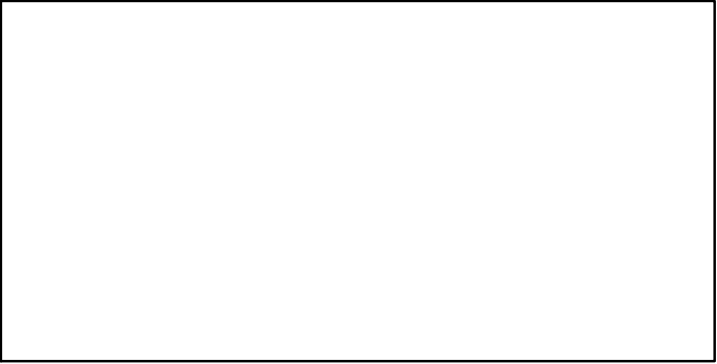
CPUE*



EFFORT*



CdivMSY*



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

Metadata	
Scientific Name	Sebastes alascanus
Current Assess ID	AFSC-SSTHORNHGA-1980-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	87,200	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.014	-	-
TC	TC-MT	2014	1130		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

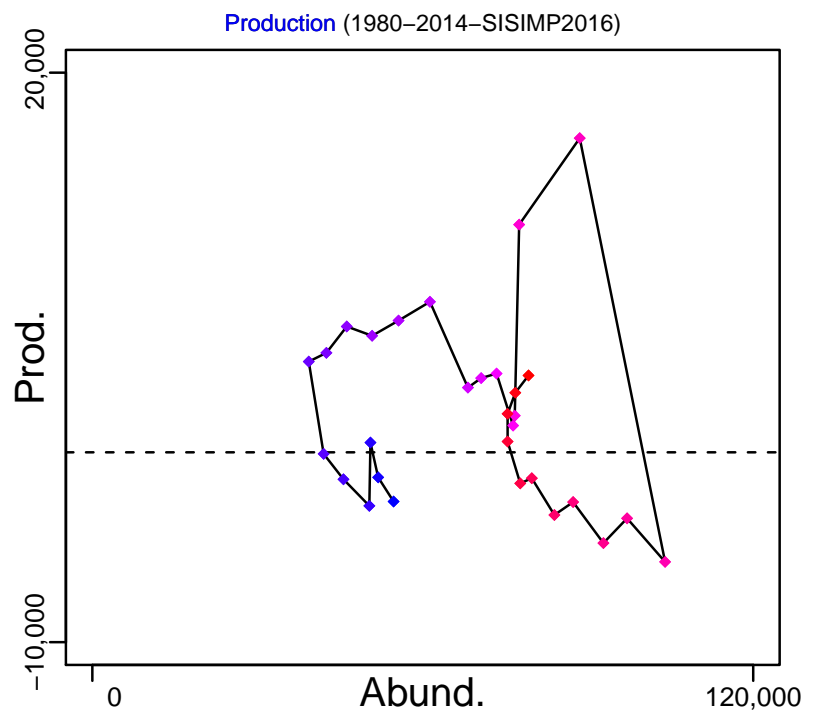
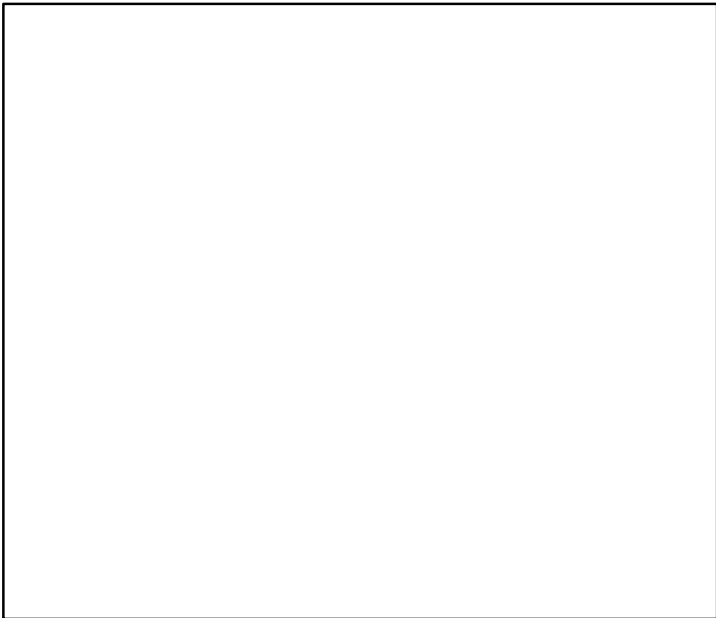
Kobe MSY*



Kobe MGT*



Spawner Recruit*

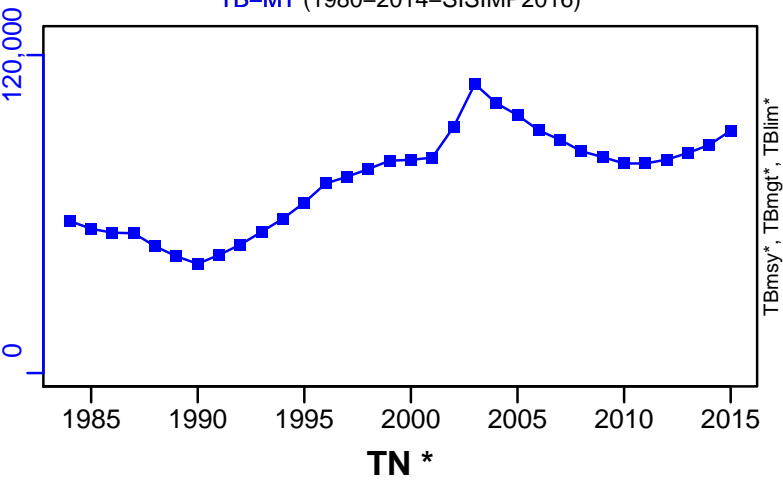


◆ Start Year ◆ End Year * No Data

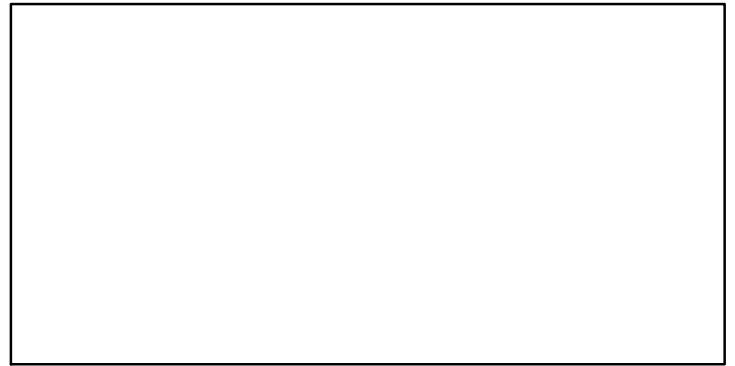
Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

TB-MT (1980-2014-SISIMP2016)

SSB*

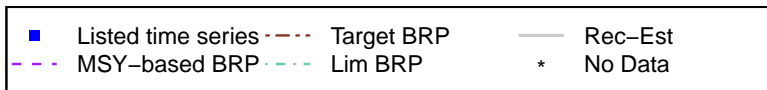
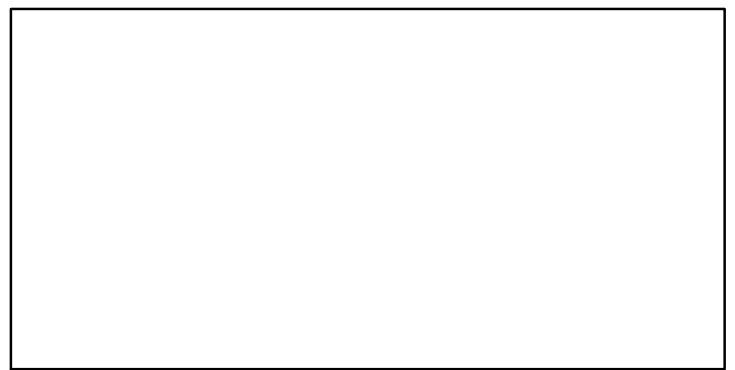
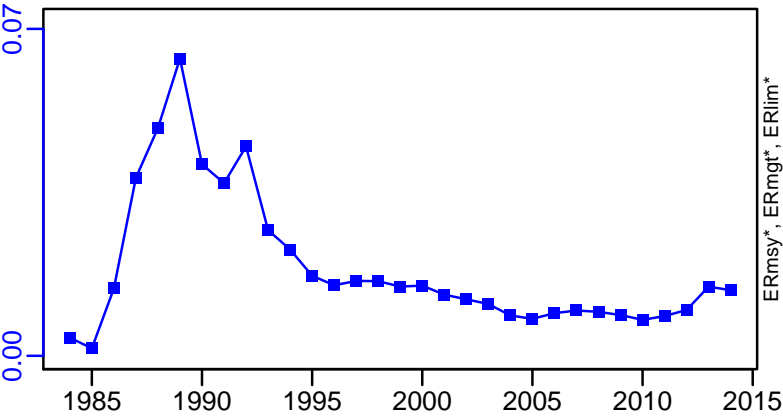


F*



ER-calc-ratio (1980-2014-SISIMP2016)

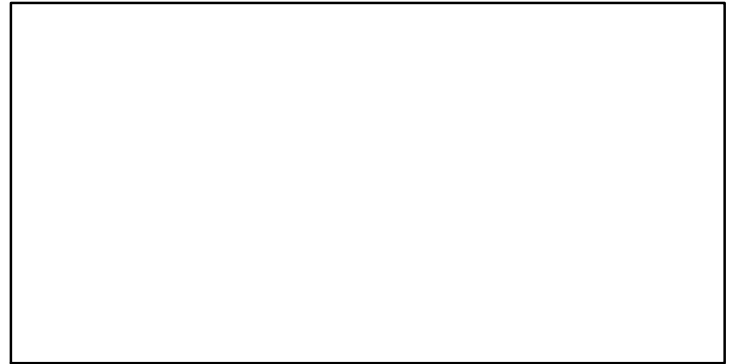
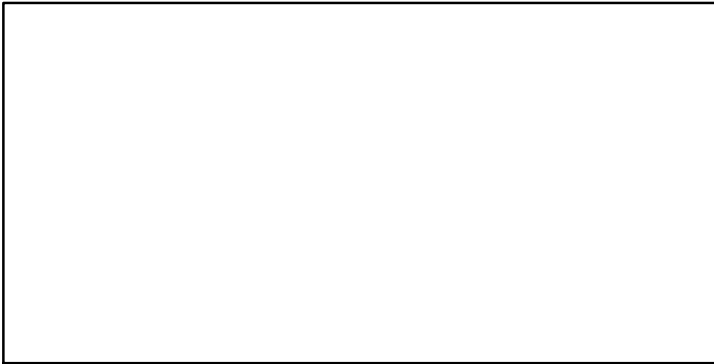
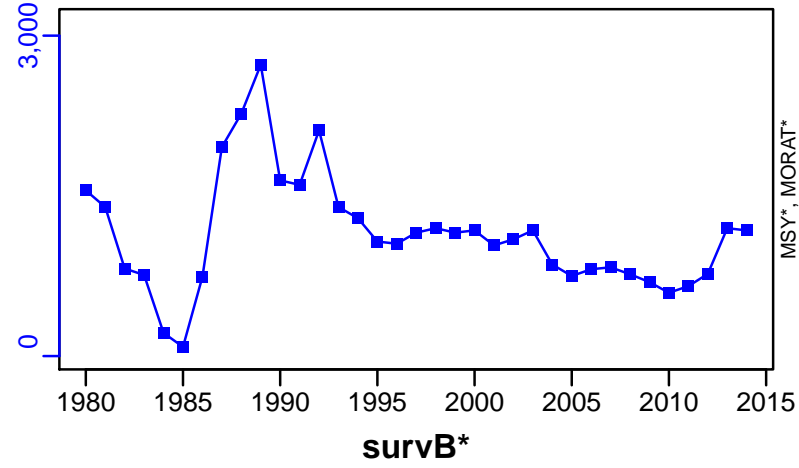
Recruits*



Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

TC-MT, TL*, RecC* (1980-2014-SISIMP2016)

TAC*, Cpair*, Cadv*



Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

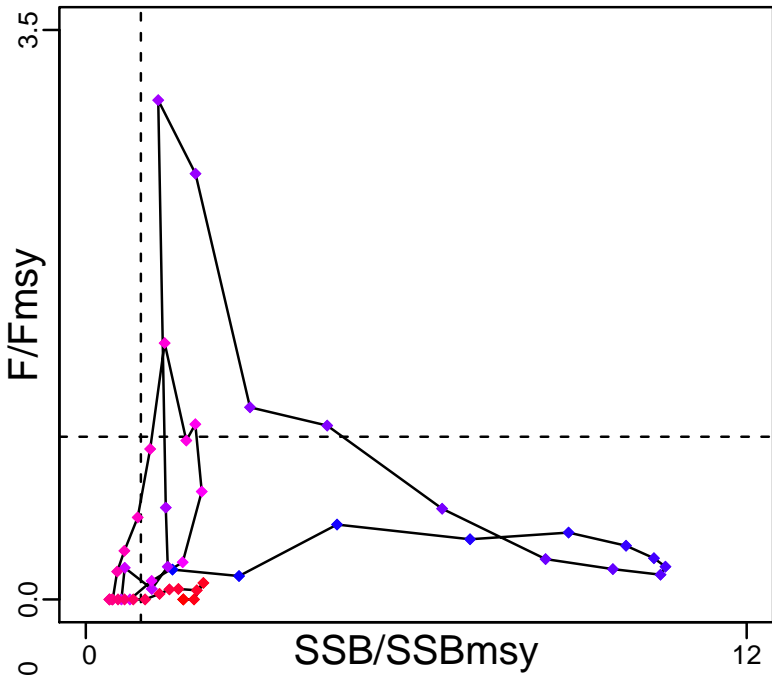
Metadata	
Scientific Name	Chionoecetes bairdi
Current Assess ID	AFSC-TANNERCRABBSAI-1965-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	26,791
SSBmsy	SSBmsy-pr-MT	2013	33,540
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	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

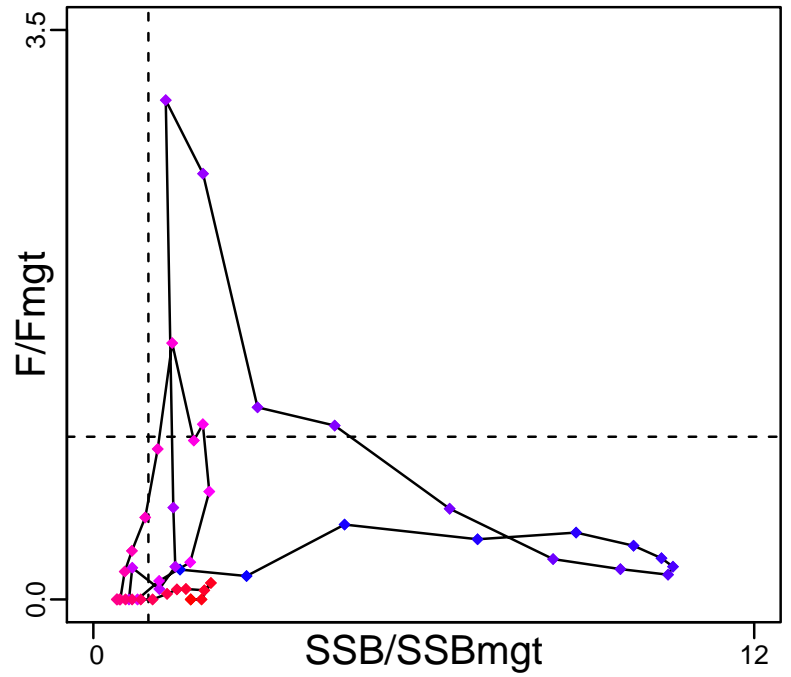
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	137,000	-	-
SSB	SSB-MT	2015	53,700	Females	-
TN	-	-	-	-	-
R	R-E00	2015	80,700,000	-	-
F	F-1/yr	2015	0.144	-	-
ER	ER-calc-ratio	2015	0.043	-	-
TC	TC-MT	2015	6430		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2015	5.114		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2013	1.771		
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]

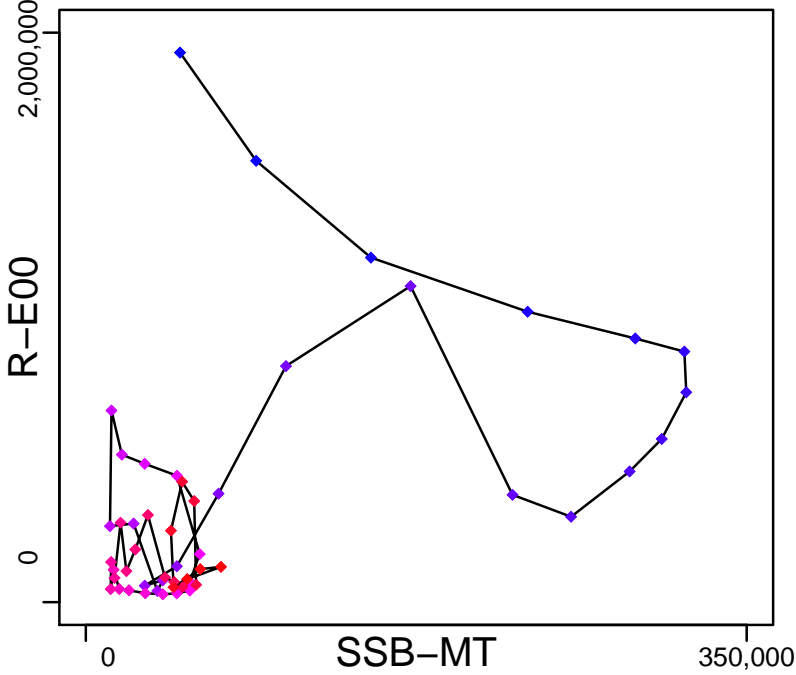
Kobe MSYpref (1949–2013–HIVELY)



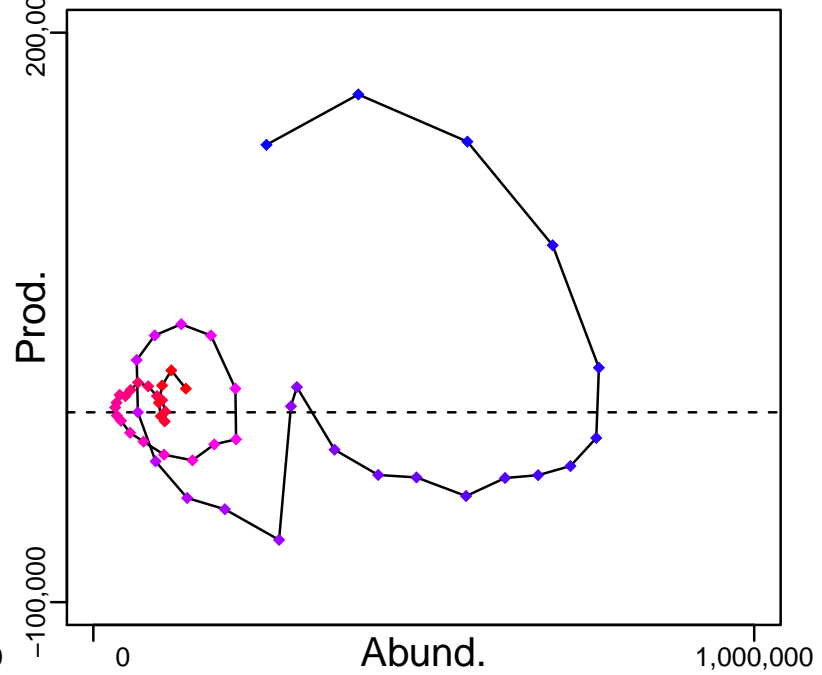
Kobe MGTpref (1949–2013–HIVELY)



Spawner Recruit (1965–2015–SISIMP2016)

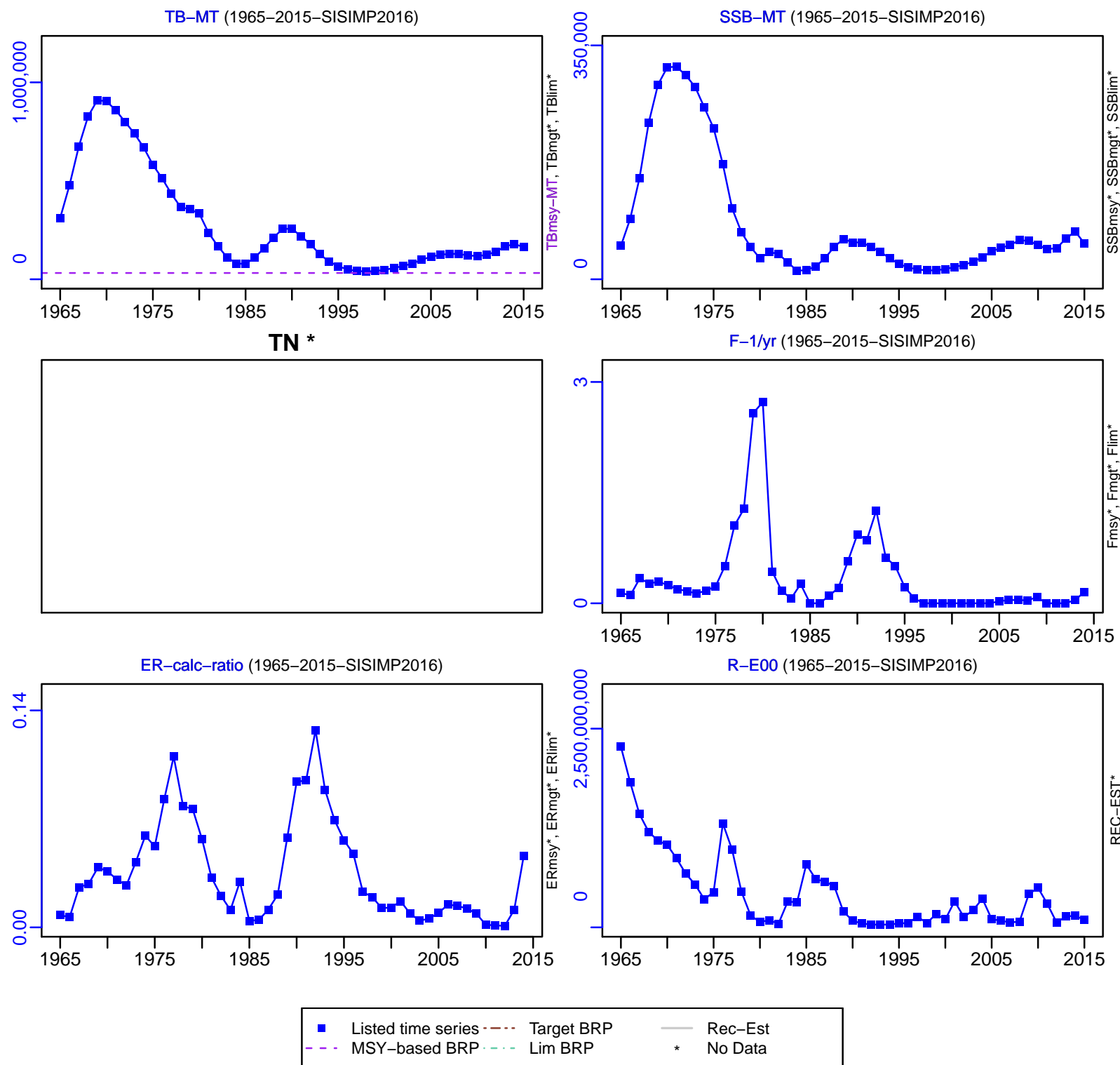


Production (1965–2015–SISIMP2016)



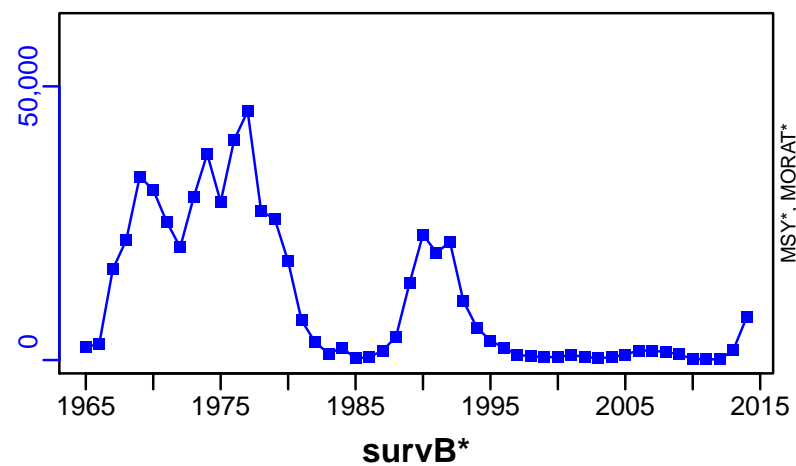
◆ Start Year ◆ End Year * No Data

Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

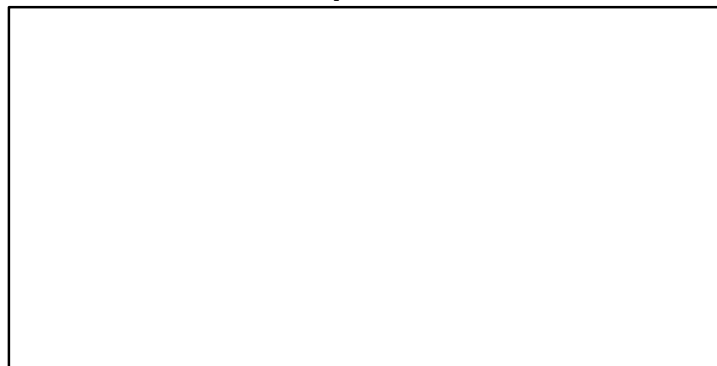


Tanner crab Bering Sea and Aleutian Islands [TANNERCRABBSAI]

TC-MT, TL*, RecC* (1965–2015–SISIMP2016)



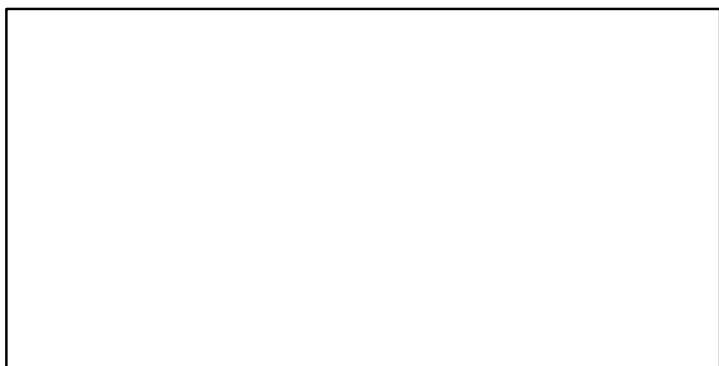
TAC*, Cpair*, Cadv*



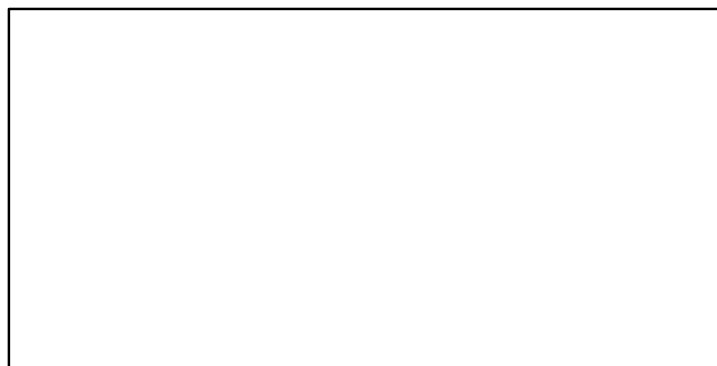
CPUE*



EFFORT*



CdivMSY*



Walleye pollock Aleutian Islands [WPOLLAI]

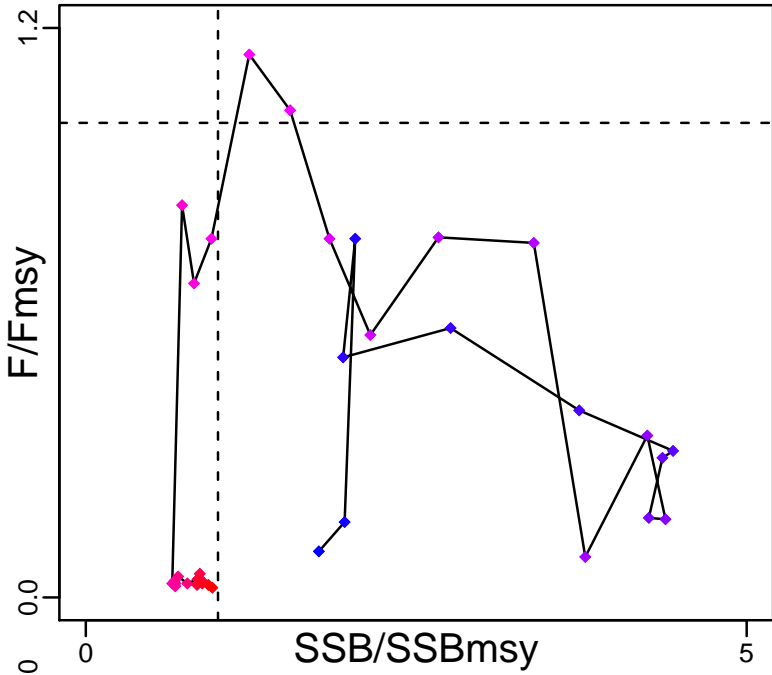
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLAI-1978-2015-SISIMP2016
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	72,437
Fmsy	Fmsy-pr-1/yr	2013	0.34
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

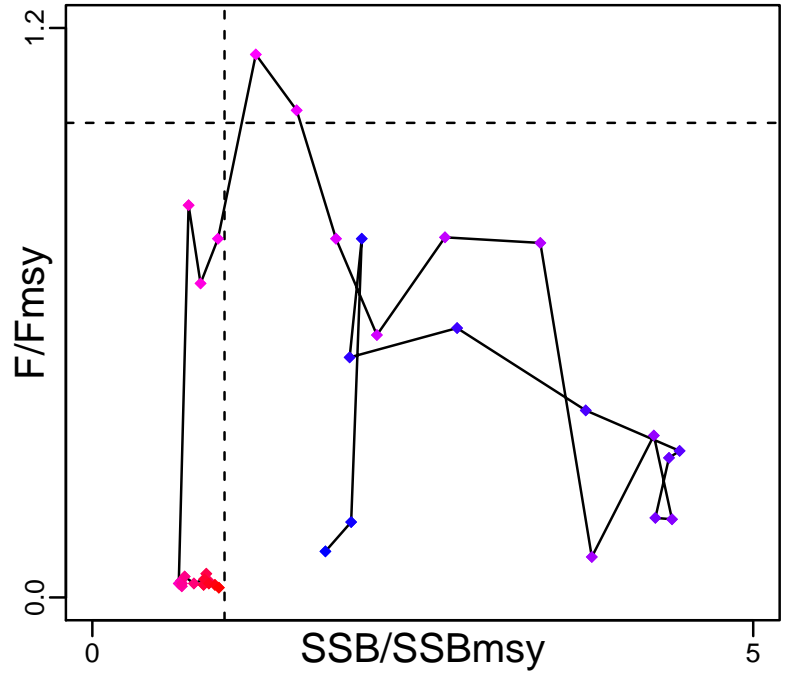
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	216,000	-	1+
SSB	SSB-MT	2015	70,200	Females	4+
TN	-	-	-	-	-
R	R-E00	2015	68,200,000	-	0
F	F-1/yr	2015	0.012	-	-
ER	ER-calc-ratio	2015	0.012	-	-
TC	TC-MT	2015	2380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.969		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0.021		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Aleutian Islands [WPOLLAI]

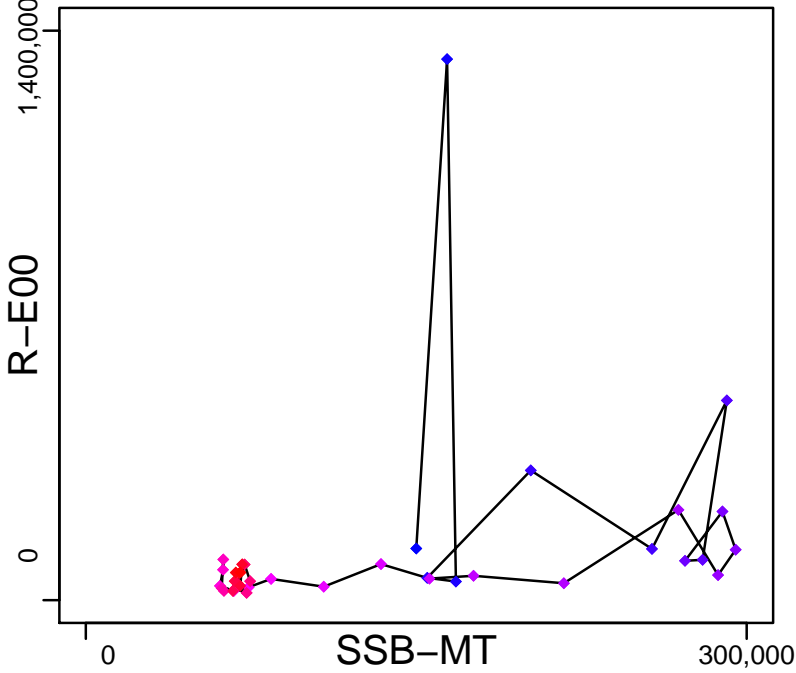
Kobe MSYpref (1976–2013–CHING)



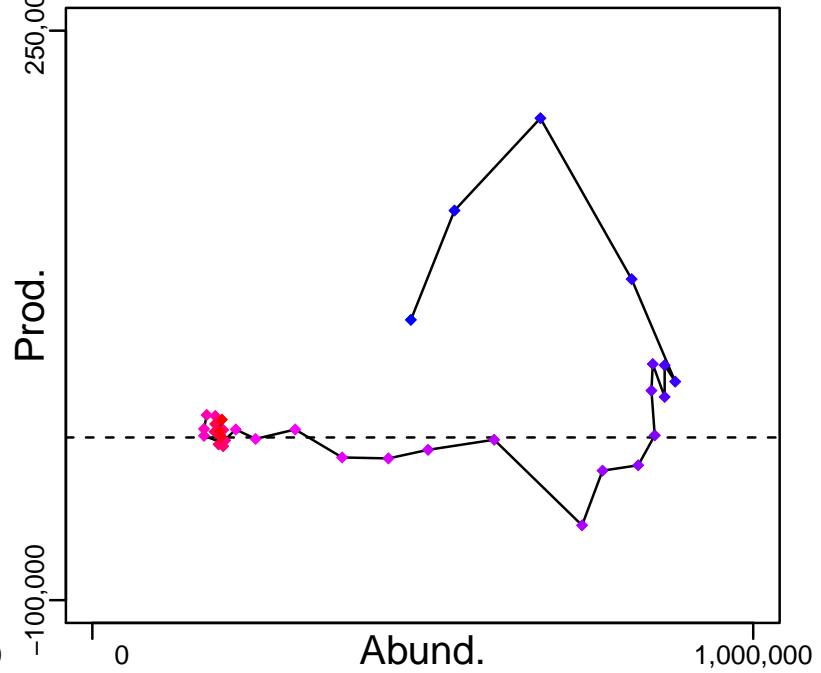
Kobe MGTpref (1976–2013–CHING)



Spawner Recruit (1978–2015–SISIMP2016)



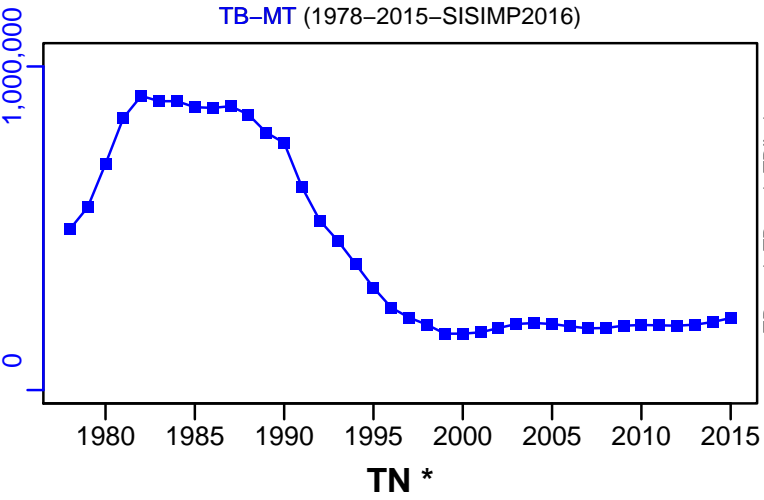
Production (1978–2015–SISIMP2016)



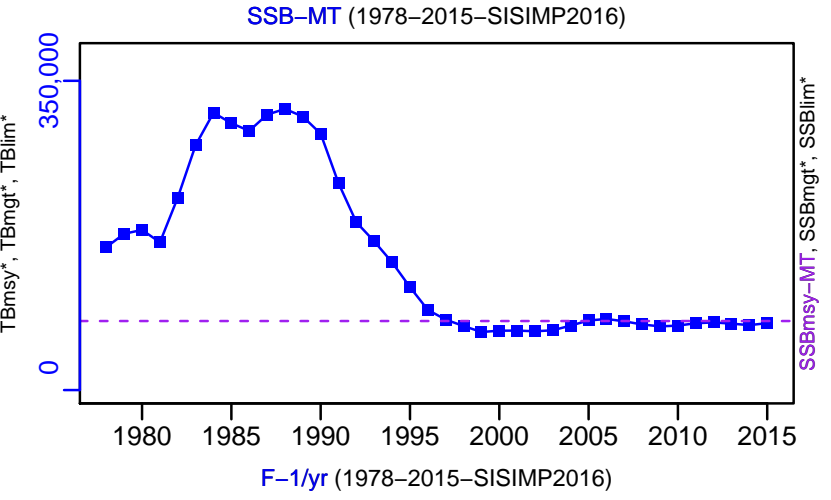
◆ Start Year ◆ End Year * No Data

Walleye pollock Aleutian Islands [WPOLLAI]

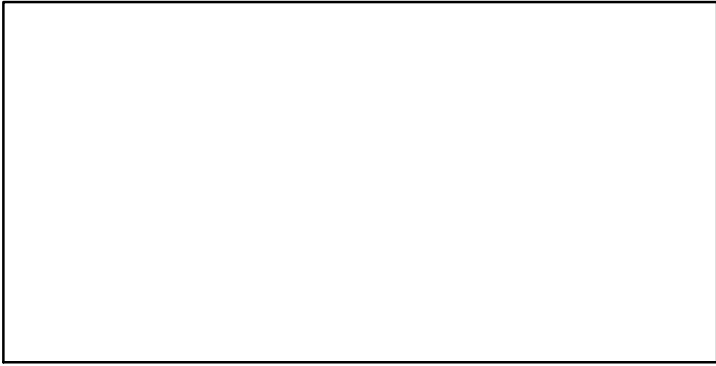
TB-MT (1978-2015-SISIMP2016)



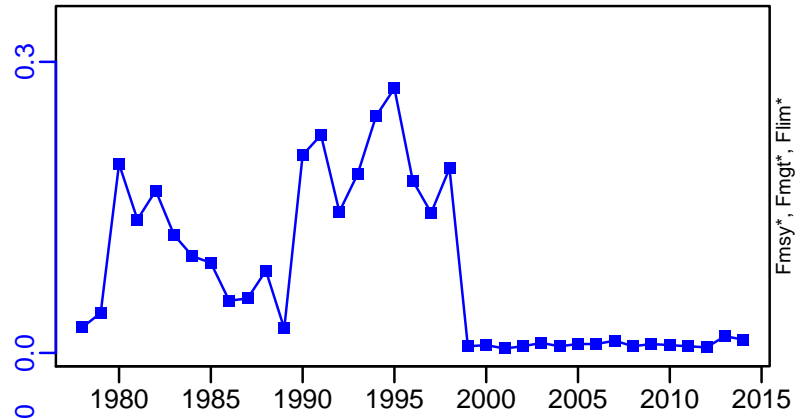
SSB-MT (1978-2015-SISIMP2016)



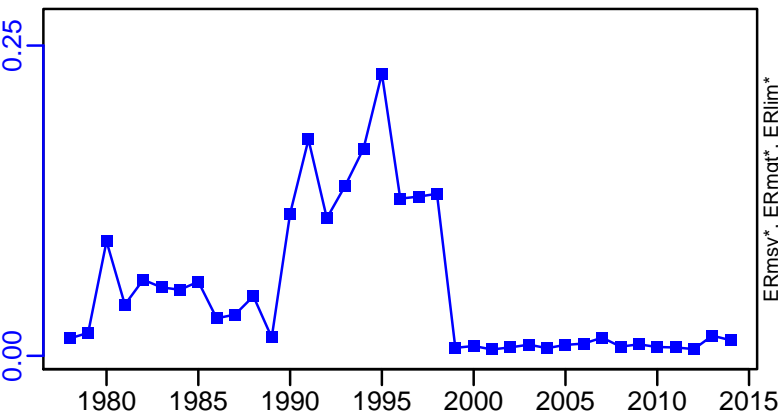
TN *



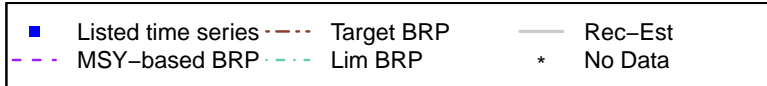
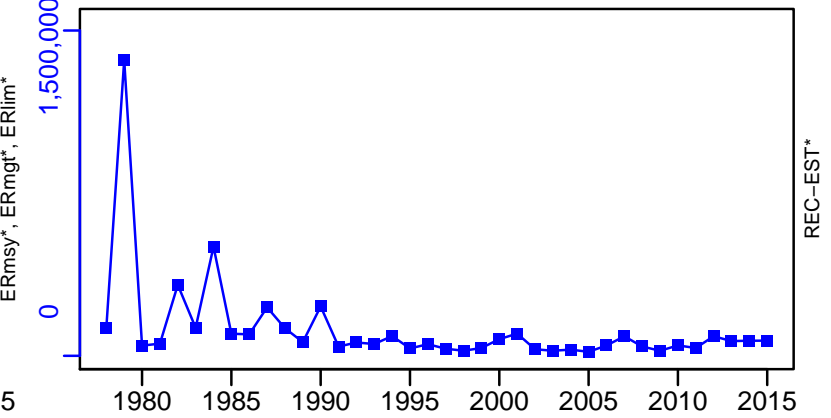
F-1/yr (1978-2015-SISIMP2016)



ER-calc-ratio (1978-2015-SISIMP2016)

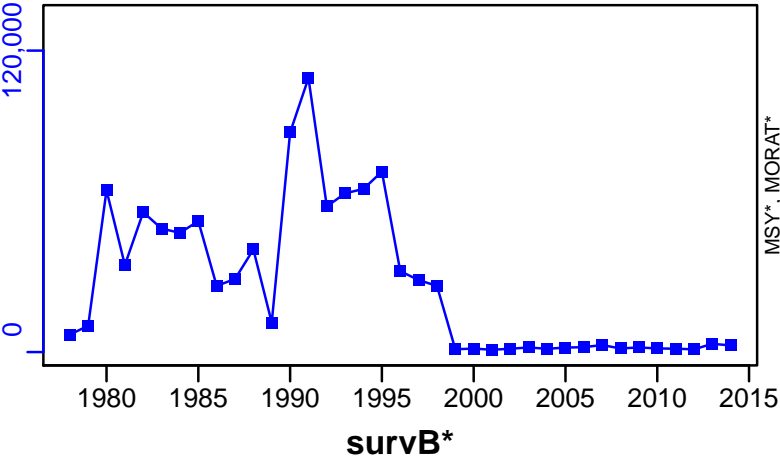


R-E00 (1978-2015-SISIMP2016)



Walleye pollock Aleutian Islands [WPOLLAI]

TC-MT, TL*, RecC* (1978-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



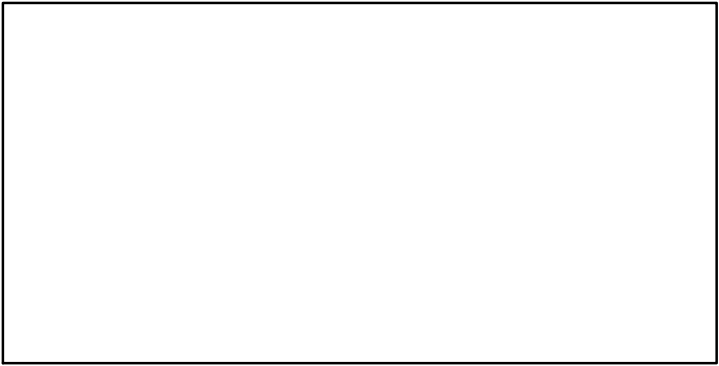
CPUE*



EFFORT*



CdivMSY*

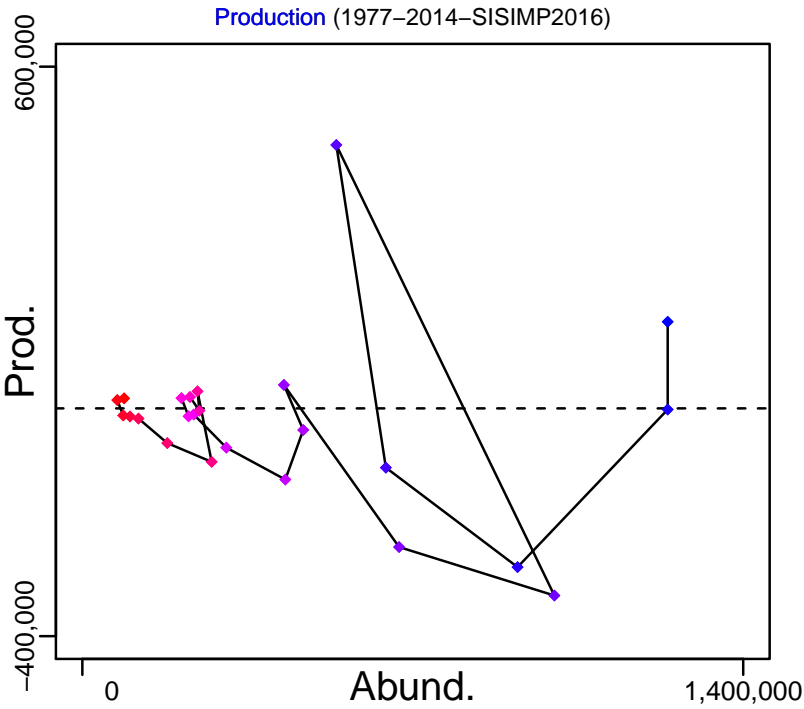


Walleye pollock Bogoslof [WPOLLBOGO]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLBOGO-1977-2014-SISIMP2016
Area	Bogoslof
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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

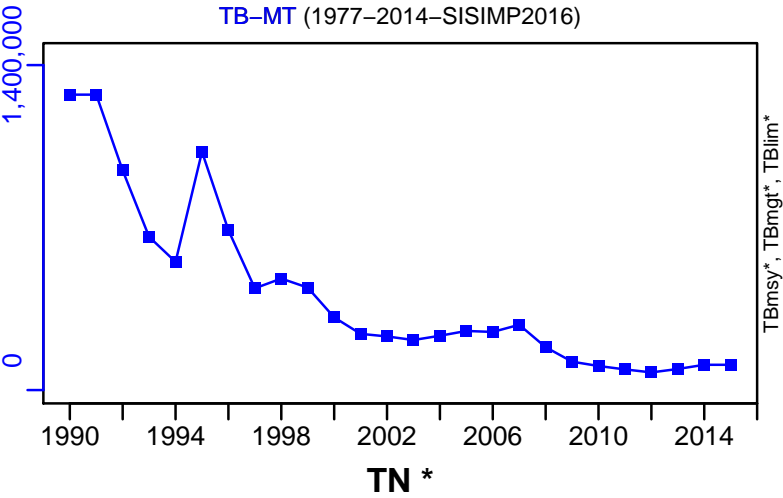
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	106,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.004	-	-
TC	TC-MT	2014	428		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Walleye pollock Bogoslof [WPOLLBOGO]

TB-MT (1977-2014-SISIMP2016)



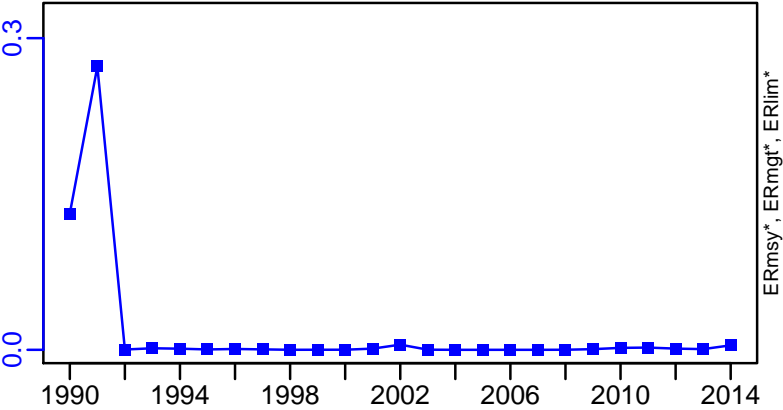
SSB*



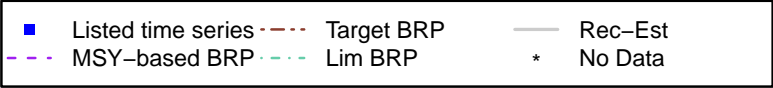
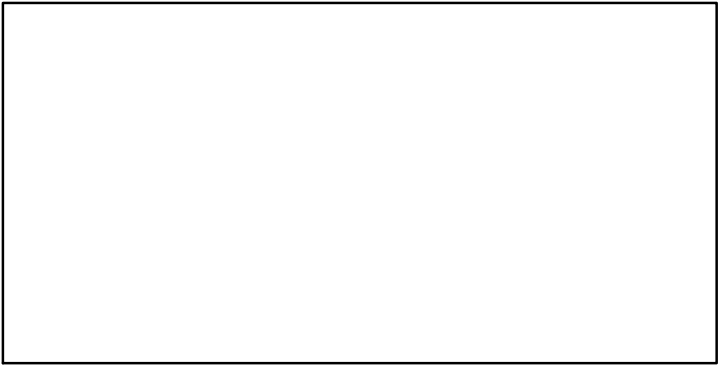
F*



ER-calc-ratio (1977-2014-SISIMP2016)

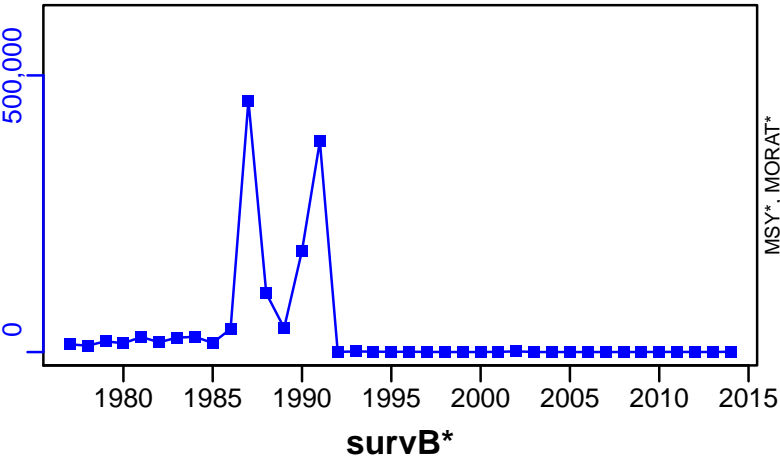


Recruits*



Walleye pollock Bogoslof [WPOLLBOGO]

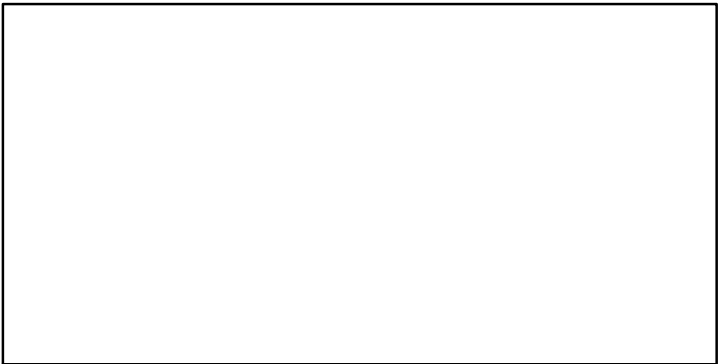
TC-MT, TL*, RecC* (1977-2014-SISIMP2016)



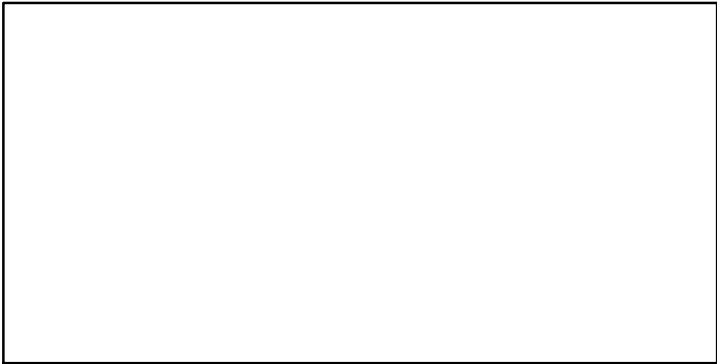
TAC*, Cpair*, Cadv*



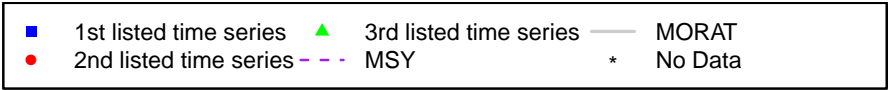
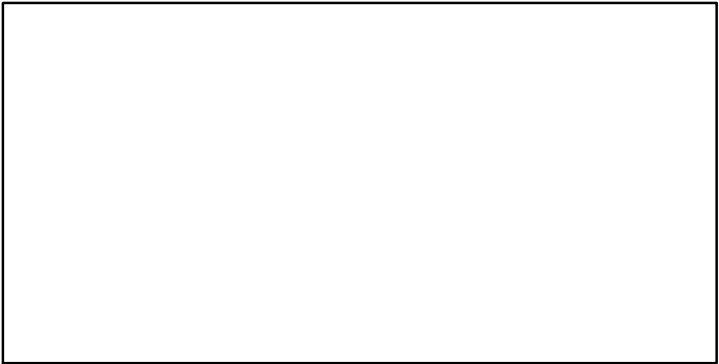
CPUE*



EFFORT*



CdivMSY*



Walleye pollock Eastern Bering Sea [WPOLLEBS]

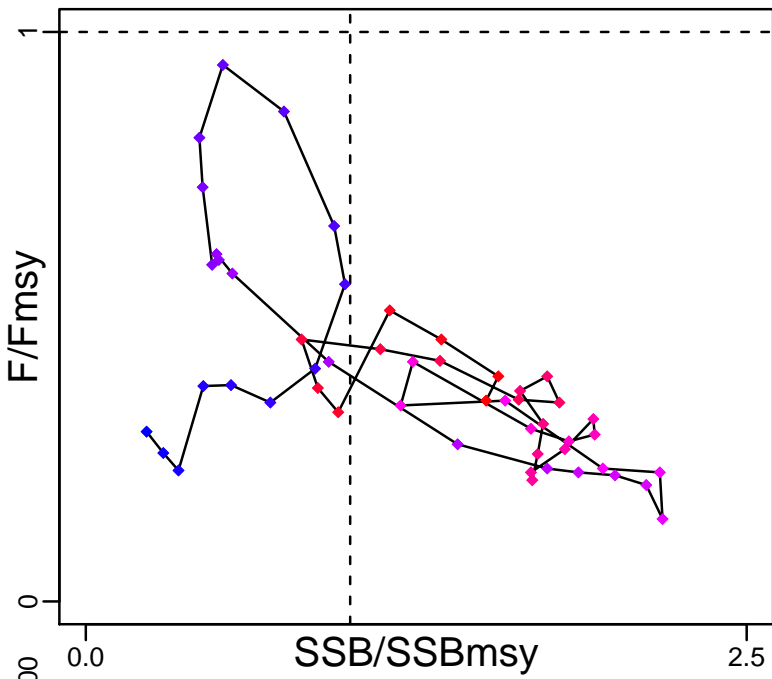
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLEBS-1963-2015-HIVELY
Area	Eastern Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	1,948,000
Fmsy	Fmsy-1/yr	2015	0.587
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2015	5,162,000
MSY	-	-	-
M	M-1/yr	2015	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

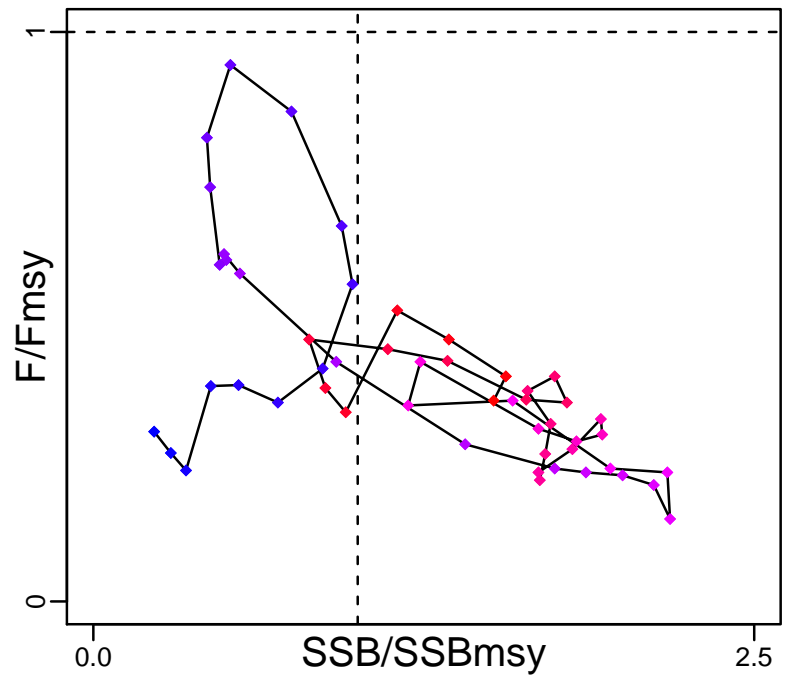
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	7,780,000	-	3+
SSB	SSB-MT	2015	2,950,000	Females	4+
TN	-	-	-	-	-
R	R-E00	2015	2.37×10^{10}	-	1
F	F-1/yr	2015	0.207	-	3 to 8
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2015	1,290,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.514		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.353		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Eastern Bering Sea [WPOLLEBS]

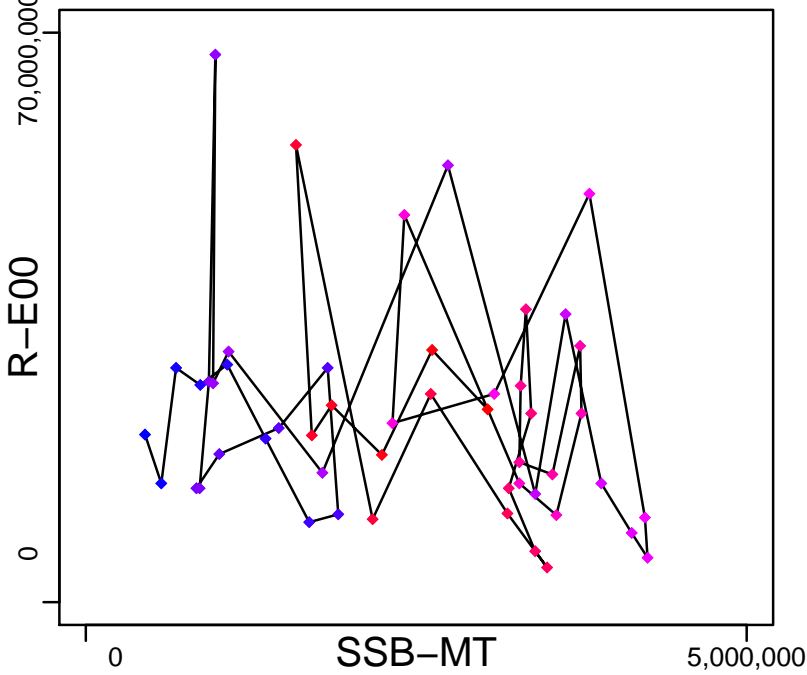
Kobe MSYpref (1963–2015–HIVELY)



Kobe MGTpref (1963–2015–HIVELY)



Spawner Recruit (1963–2015–HIVELY)

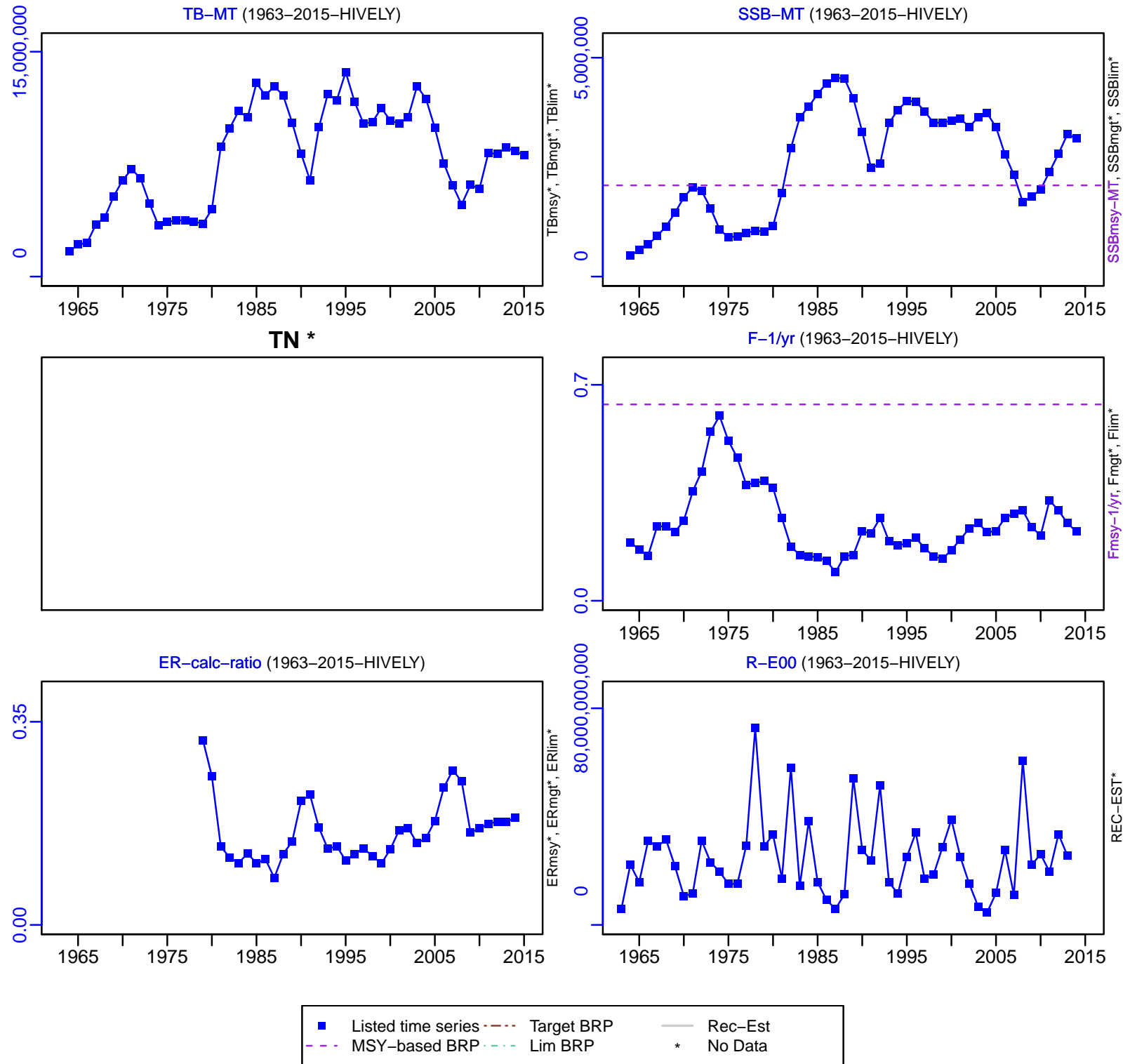


Production*



◆ Start Year ◆ End Year * No Data

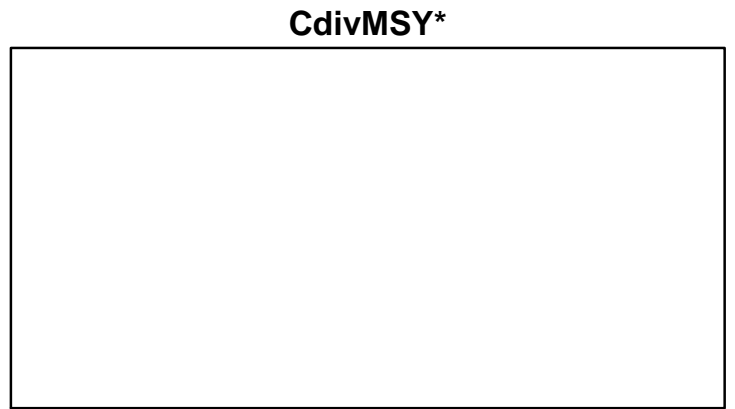
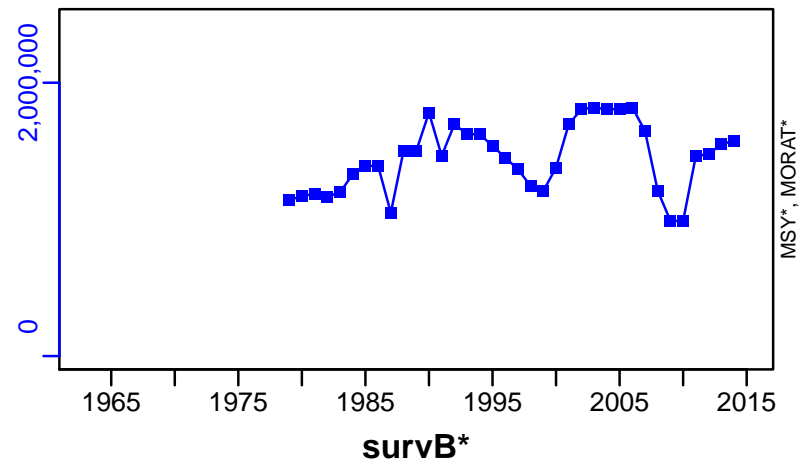
Walleye pollock Eastern Bering Sea [WPOLLEBS]



Walleye pollock Eastern Bering Sea [WPOLLEBS]

TC-MT, TL*, RecC* (1963-2015-HIVELY)

TAC*, Cpair*, Cadv*



Walleye pollock Gulf of Alaska [WPOLLGA]

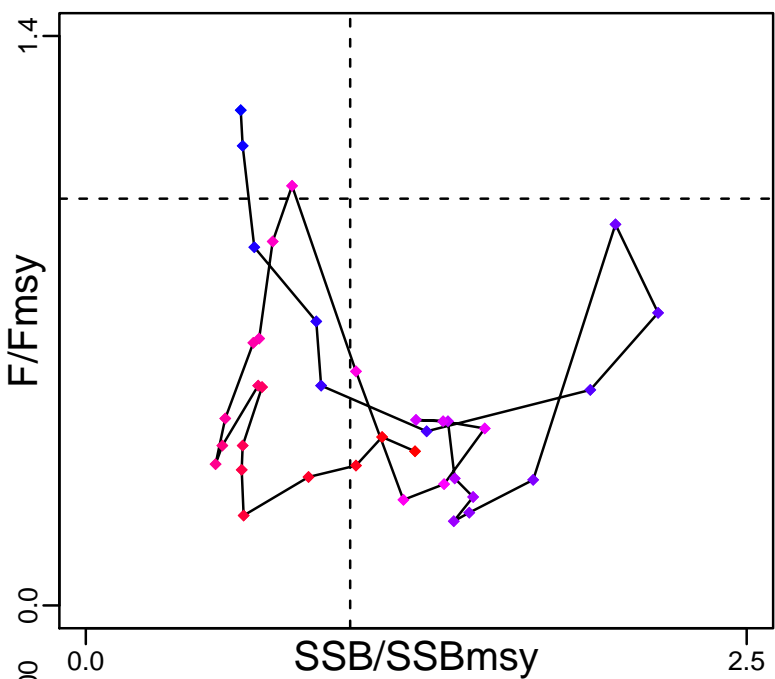
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLGA-1970-2015-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	262,344
Fmsy	Fmsy-pr-1/yr	2014	0.285
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	312,000
Fmgt	Fmgt-1/yr	2014	0.243
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2014	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

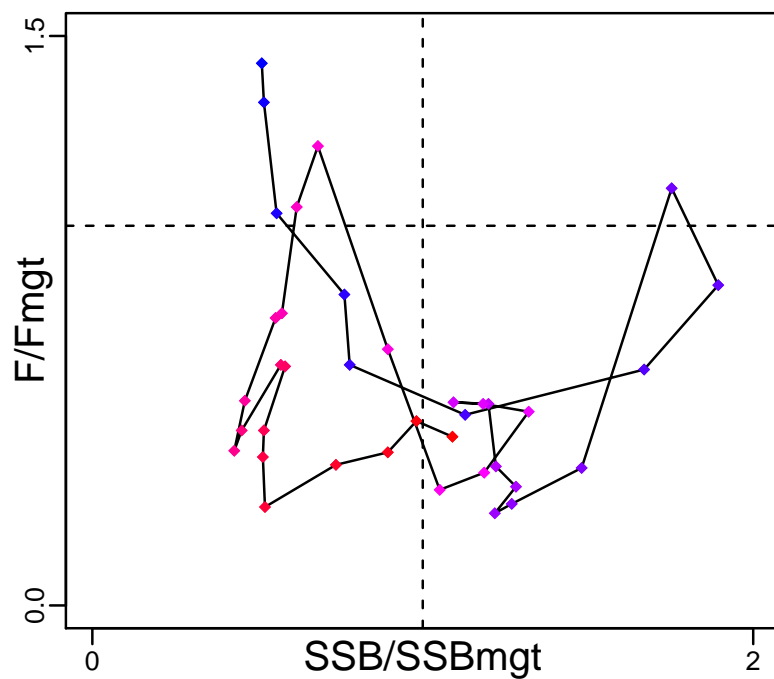
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,730,000	-	3+
SSB	SSB-MT	2015	251,000	Females	5+
TN	-	-	-	-	-
R	R-E00	2015	8.93×10^8	-	1
F	F-1/yr	2015	0.243	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2015	143,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.957		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2014	0.621		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.09		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	0.728		
ER/ERmgt	-	-	-		

Walleye pollock Gulf of Alaska [WPOLLGA]

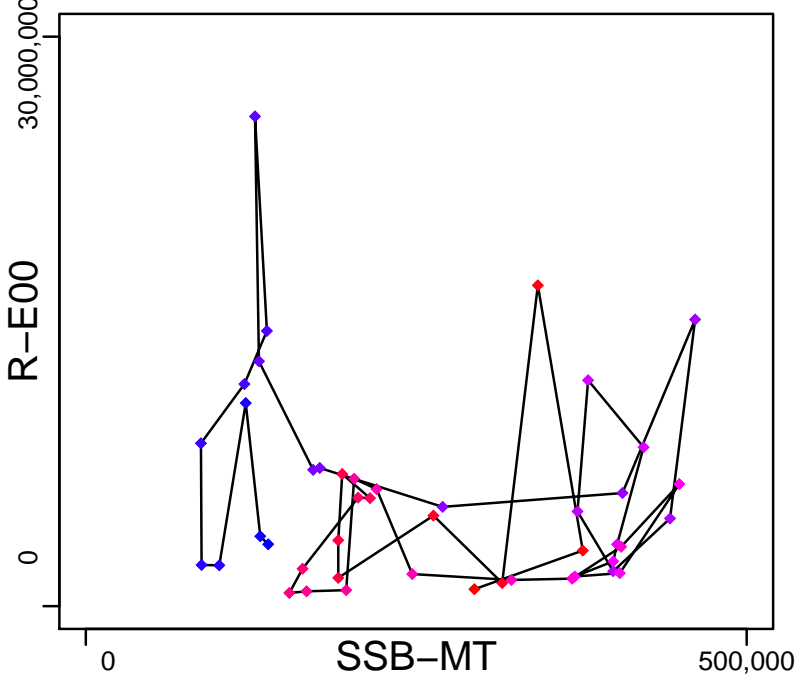
Kobe MSYpref (1970–2014–HIVELY)



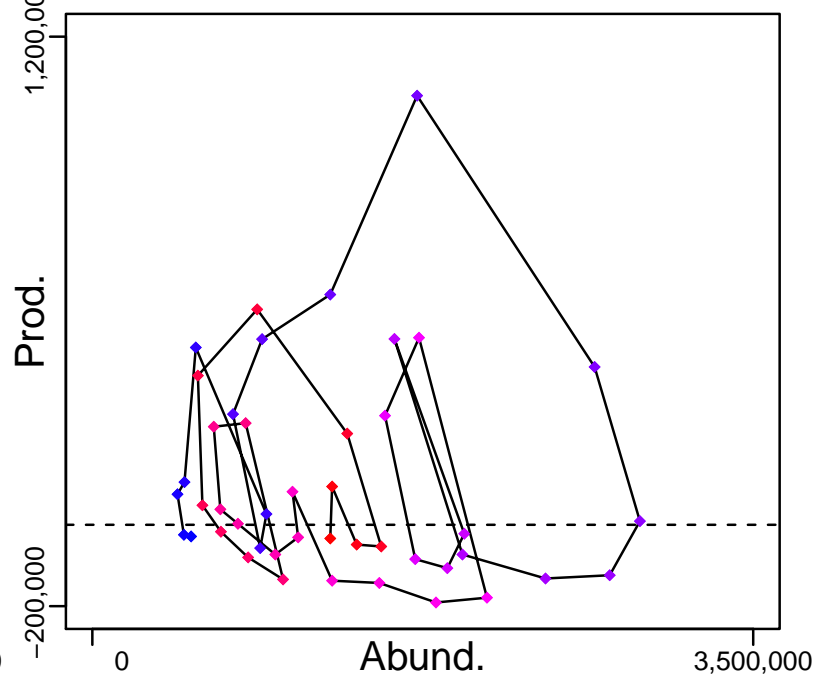
Kobe MGTpref (1970–2014–HIVELY)



Spawner Recruit (1970–2015–SISIMP2016)



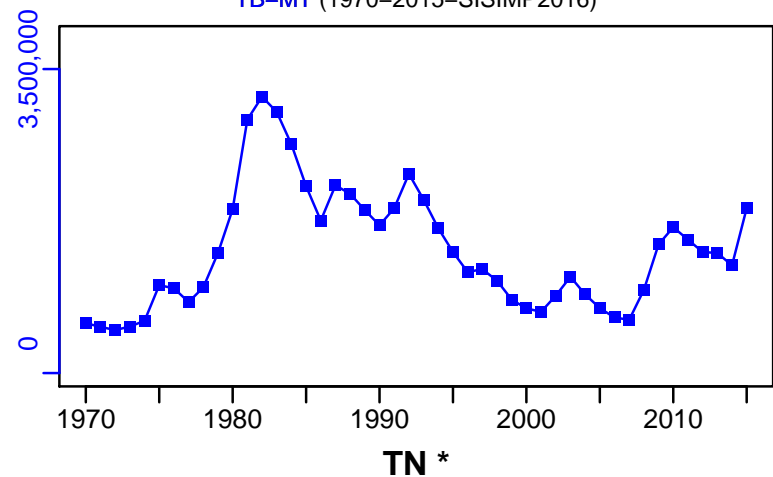
Production (1970–2015–SISIMP2016)



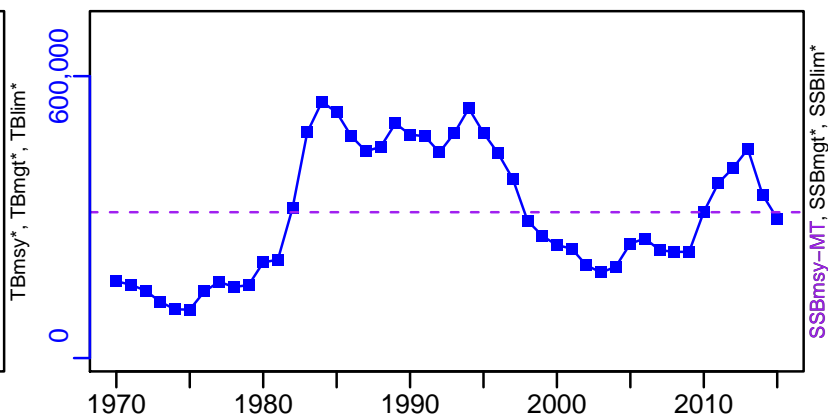
◆ Start Year ◆ End Year * No Data

Walleye pollock Gulf of Alaska [WPOLLGA]

TB-MT (1970-2015-SISIMP2016)



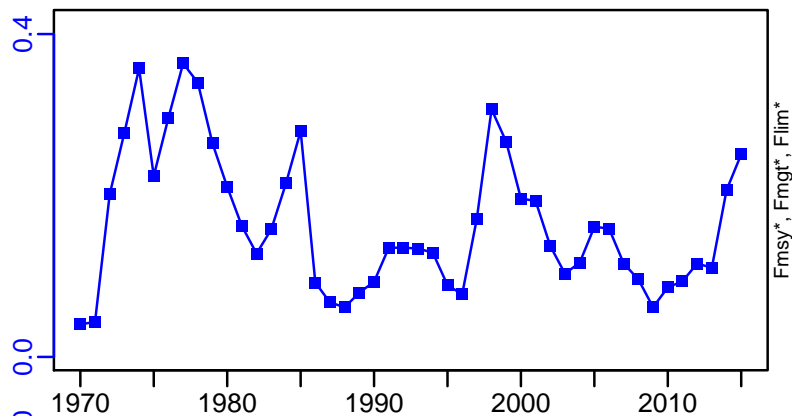
SSB-MT (1970-2015-SISIMP2016)



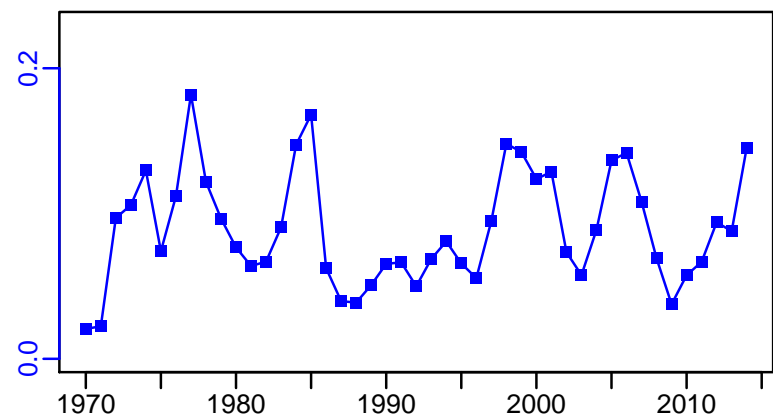
TN *



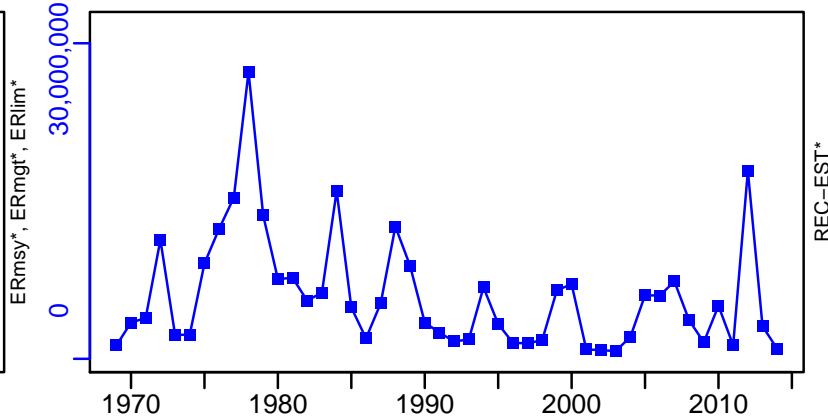
F-1/yr (1970-2015-SISIMP2016)



ER-calc-ratio (1970-2015-SISIMP2016)

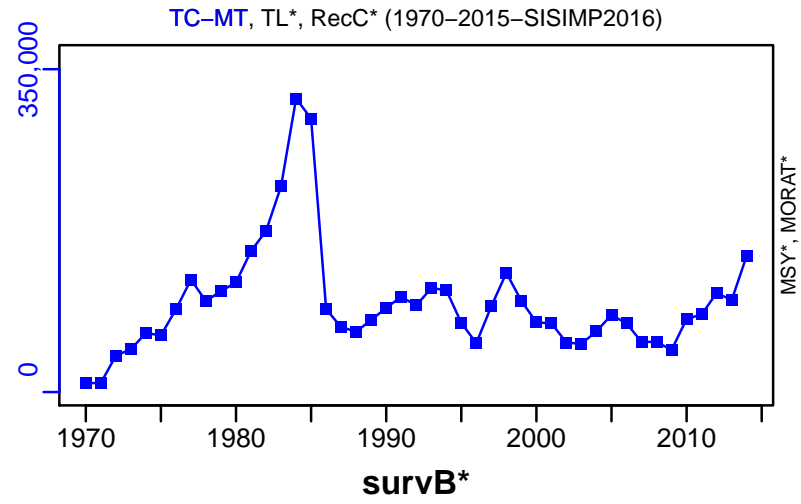


R-E00 (1970-2015-SISIMP2016)



Walleye pollock Gulf of Alaska [WPOLLGA]

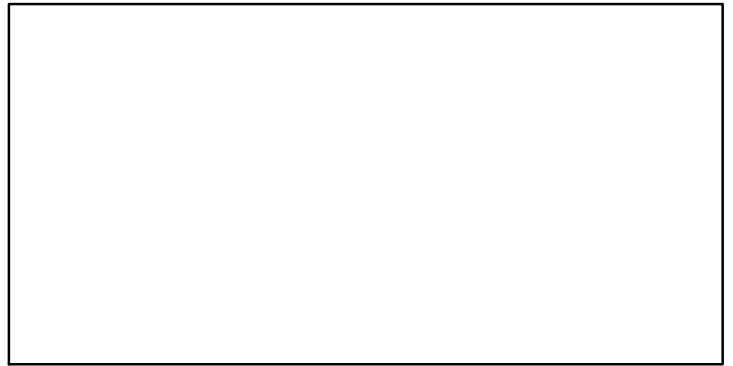
TC-MT, TL*, RecC* (1970-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Weathervane scallop Alaska [WVSCALLALASKA]

Metadata	
Scientific Name	Patinopecten caurinus
Current Assess ID	AFSC-WVSCALLALASKA-1994-2015-SISIMP2016
Area	Alaska
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	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	582
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	140		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



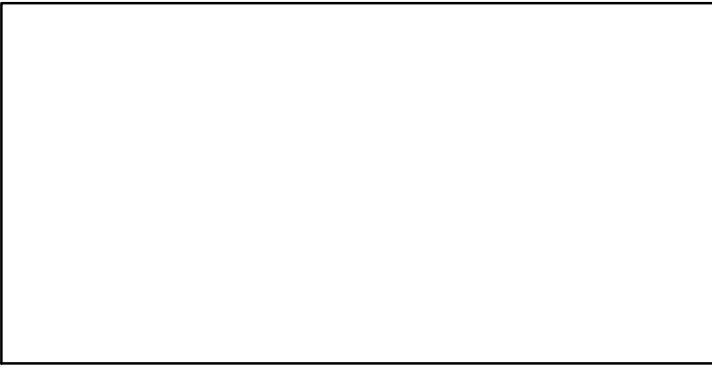
Production*



◆ Start Year ◆ End Year * No Data

Weathervane scallop Alaska [WVSCALLALASKA]

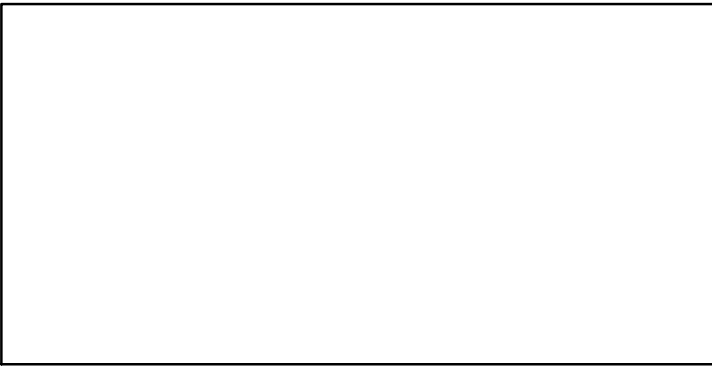
TB*



SSB*



TN *



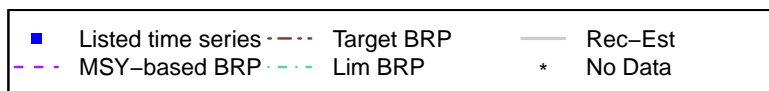
F*



ER*

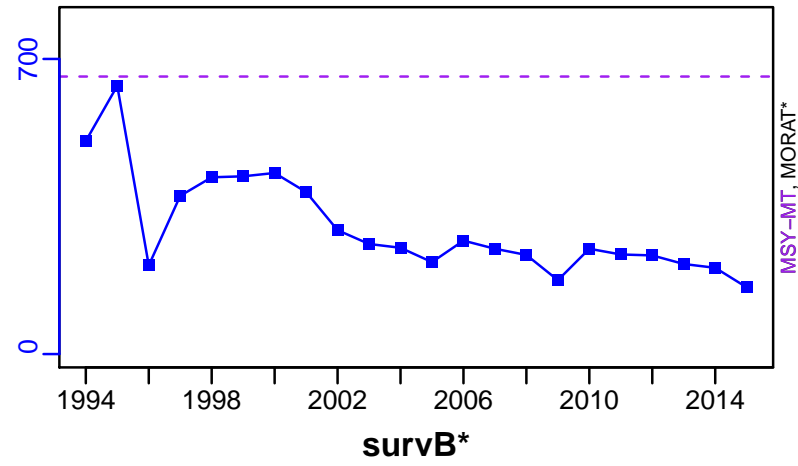


Recruits*



Weathervane scallop Alaska [WVSCALLALASKA]

TC-MT, TL*, RecC* (1994-2015-SISIMP2016)



TAC*, Cpair*, Cadv*



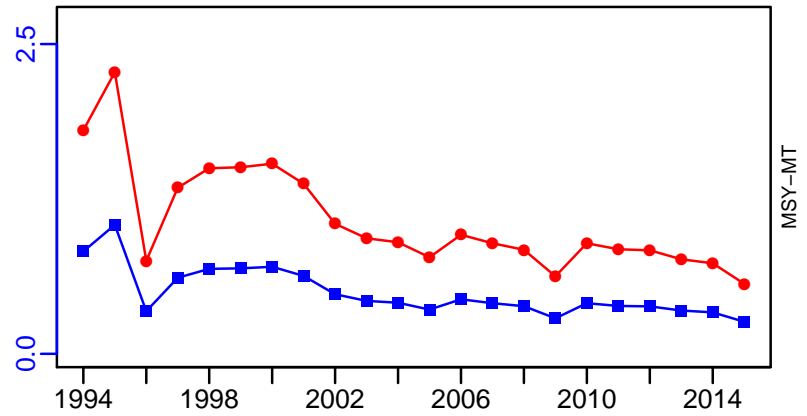
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1994-2015-SISIMP2016)



Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

Metadata	
Scientific Name	Sebastes ruberrimus
Current Assess ID	AFSC-YEYEROCKGA-1990-2014-SISIMP2016
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014

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	2014	98		
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

Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

TB*



SSB*



TN *



F*



ER*

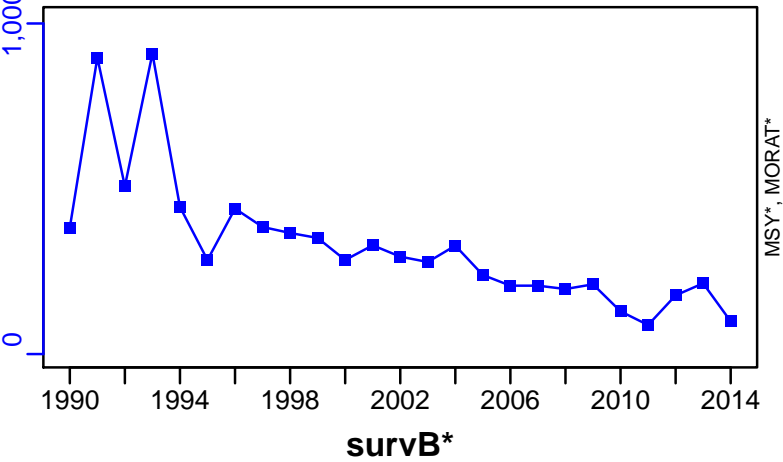


Recruits*



Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

TC-MT, TL*, RecC* (1990-2014-SISIMP2016)



TAC*, Cpair*, Cadv*



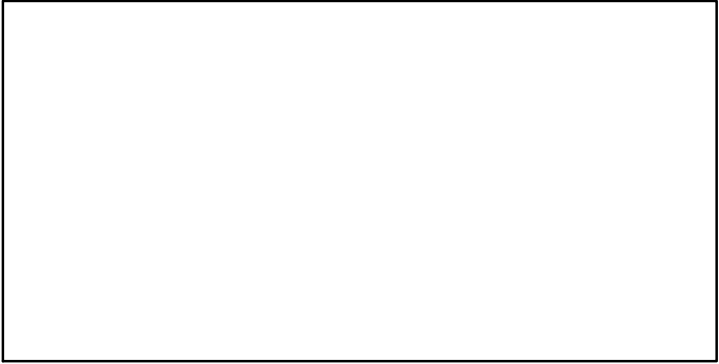
CPUE*



EFFORT*



CdivMSY*



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

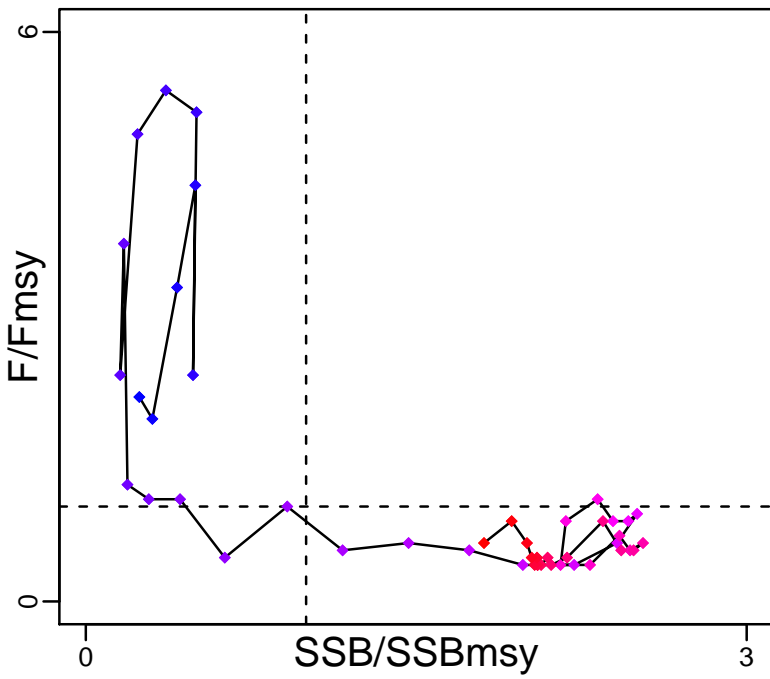
Metadata	
Scientific Name	Limanda aspera
Current Assess ID	AFSC-YSOLEBSAI-1954-2015-SISIMP2016
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	435,000
Fmsy	Fmsy-pr-1/yr	2010	0.13
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

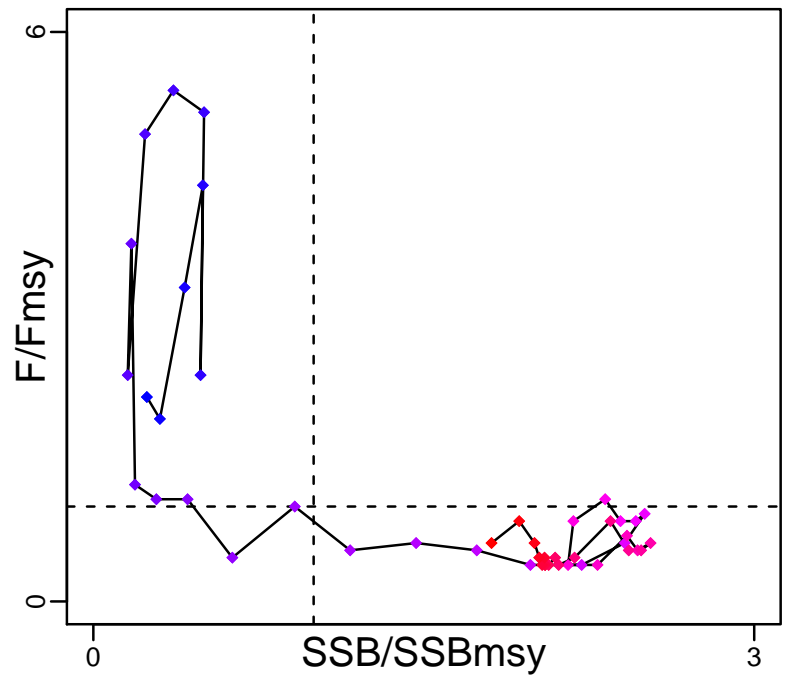
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,310,000	-	1+
SSB	SSB-MT	2015	697,000	Females	10.5+
TN	-	-	-	-	-
R	R-E00	2015	2,220,000	-	1
F	F-1/yr	2015	0.088	-	-
ER	ER-calc-ratio	2015	0.067	-	-
TC	TC-MT	2015	157,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.602		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2010	0.615		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

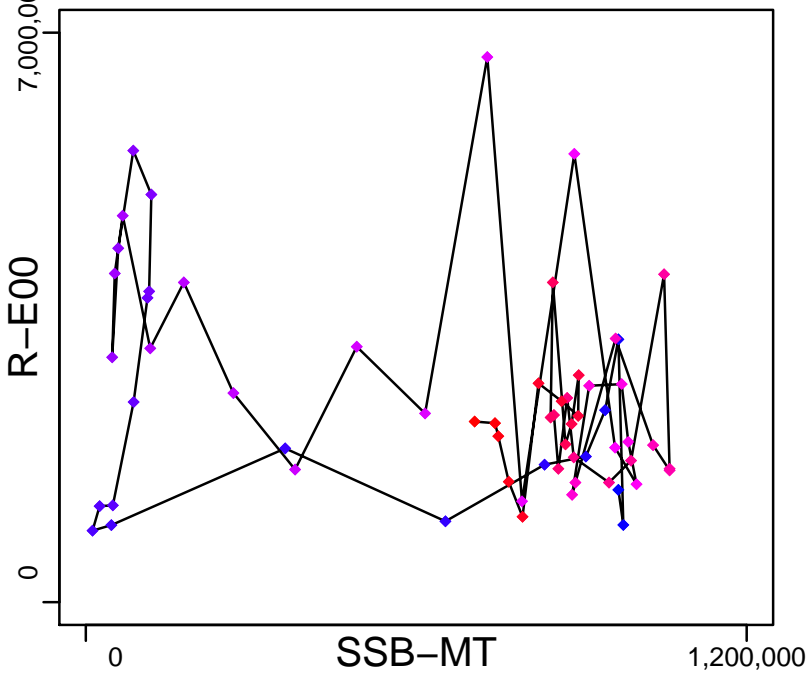
Kobe MSYpref (1949–2010–STACHURA)



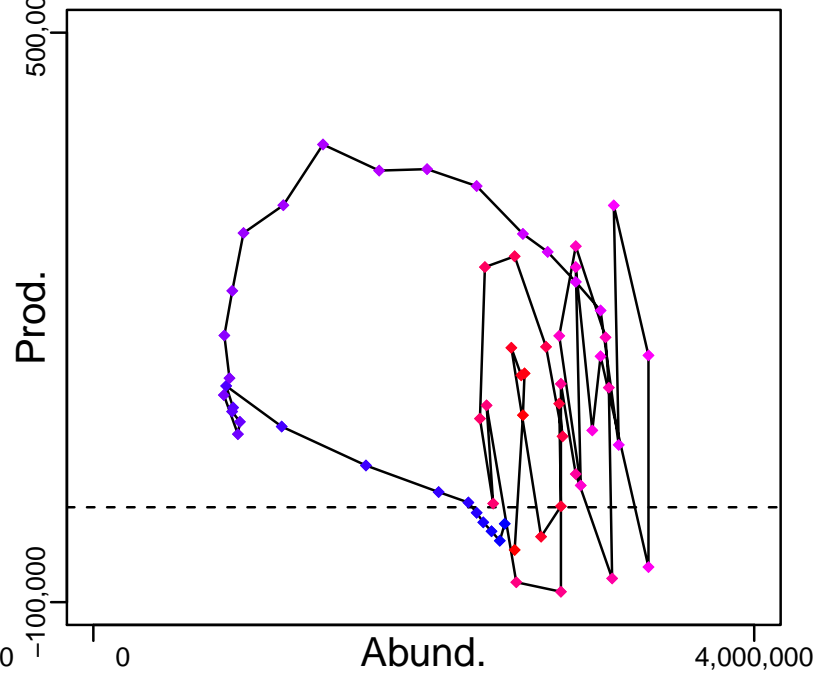
Kobe MGTpref (1949–2010–STACHURA)



Spawner Recruit (1954–2015–SISIMP2016)

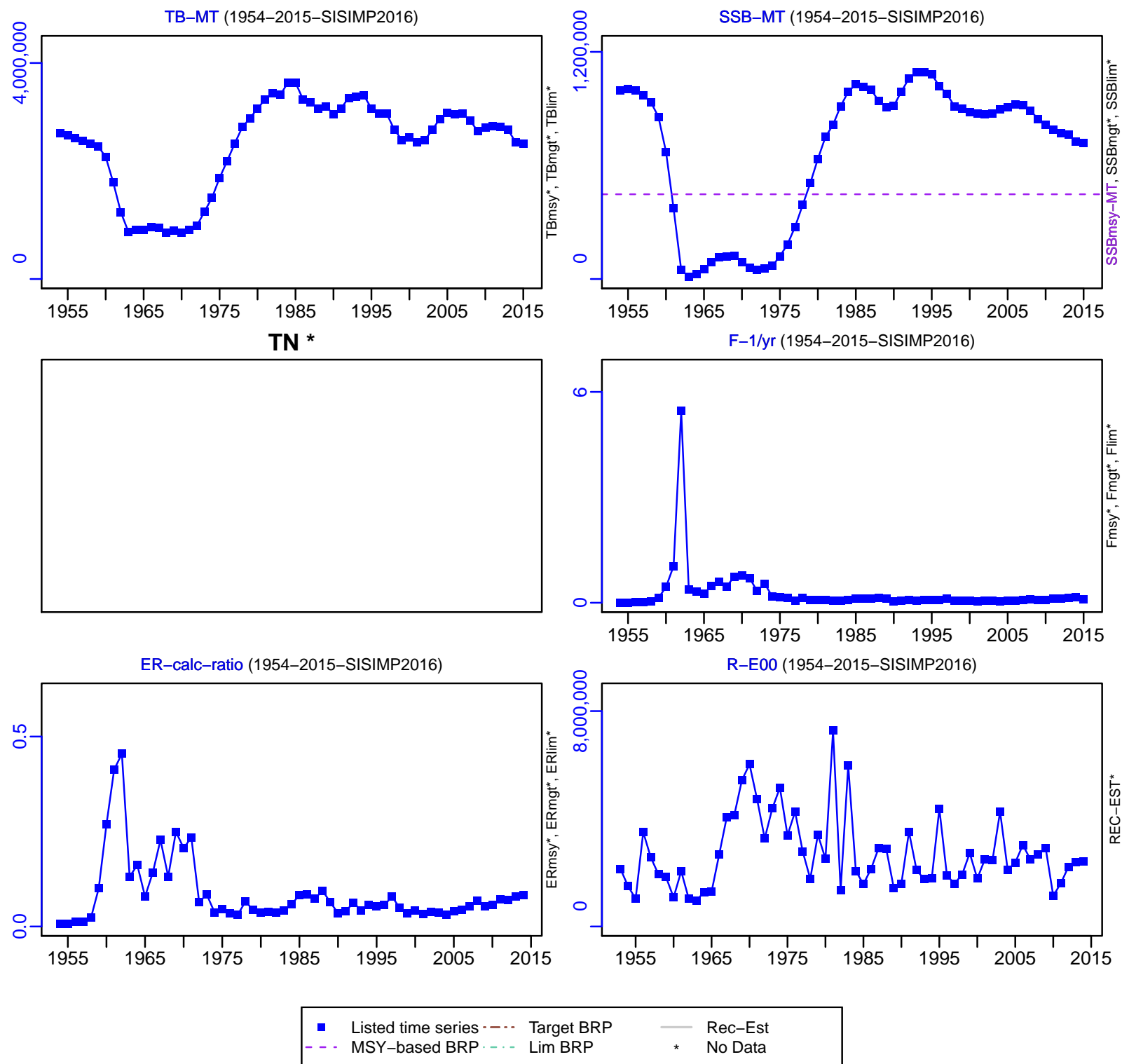


Production (1954–2015–SISIMP2016)



◆ Start Year ◆ End Year * No Data

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

TC-MT, TL*, RecC* (1954-2015-SISIMP2016)

TAC*, Cpair*, Cadv*

