# **US Alaska Stocks**

v4.61 (Apr-02-2023)

## Not present Present Preferred

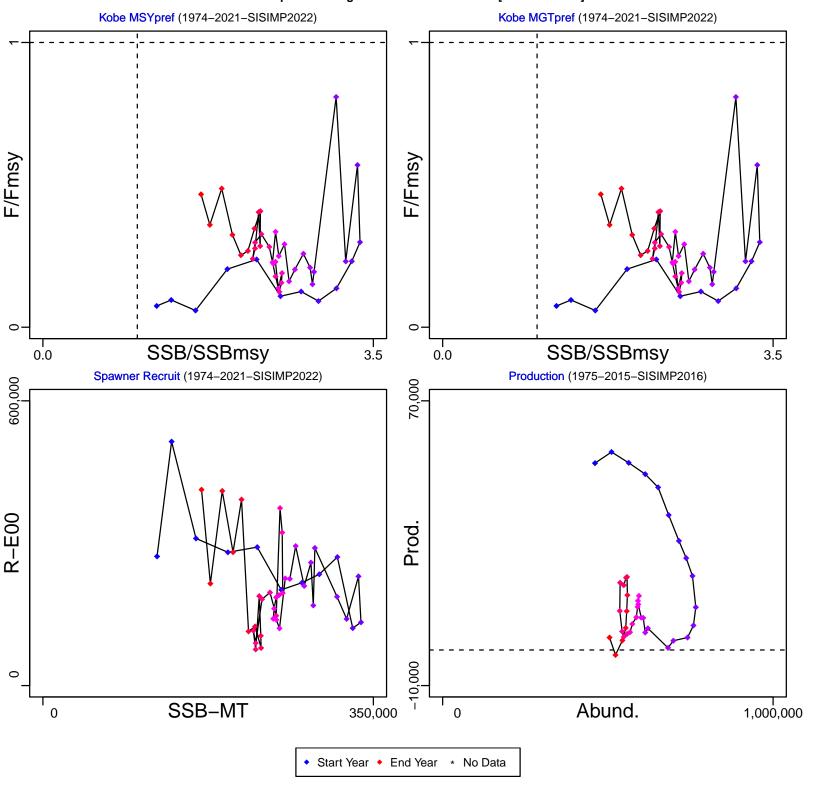
ALPLAICBSAI [Alaska plaice Bering Sea and Aleutian Islands]	B/Bmsy TB SSB	Time Seri U/Umsy	B/Bmgt	LI/LImat
	TB SSB		=;=:::9	U/Umgt
O. ALCKADCALIAlgelia alcote Daving Con and Algertian Islands		ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
3. ARFLOUNDBSAI [Arrowtooth flounder Bering Sea and Aleutian Is-	TB SSB	ER F	TB SSB	ER F
lands]				
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
12. FLSOLEBSAI [Flathead sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
13. FLSOLEGA [Flathead sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
15. GKCRABAIES [Golden king crab Aleutian Islands Eastern segment]	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
17. GKCRABPI [Golden king crab Pribilof Islands]	TB SSB	ER F	TB SSB	ER F
18. GPOCTOBSAI [Giant Pacific octopus Bering Sea and Aleutian Is-	TB SSB	ER F	TB SSB	ER F
lands]				
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
21. HERRSITKA [Pacific herring Sitka]	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
23. KMFLOUNBSAI [Kamchatka flounder Bering Sea and Aleutian Is-	TB SSB	ER F	TB SSB	ER F
lands]				
. 0	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
Islands]				
•	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
	TB SSB	ER F	TB SSB	ER F
Islands]				
	TB SSB	ER F	TB SSB	ER F
34. POPERCHGA [Pacific ocean perch Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F

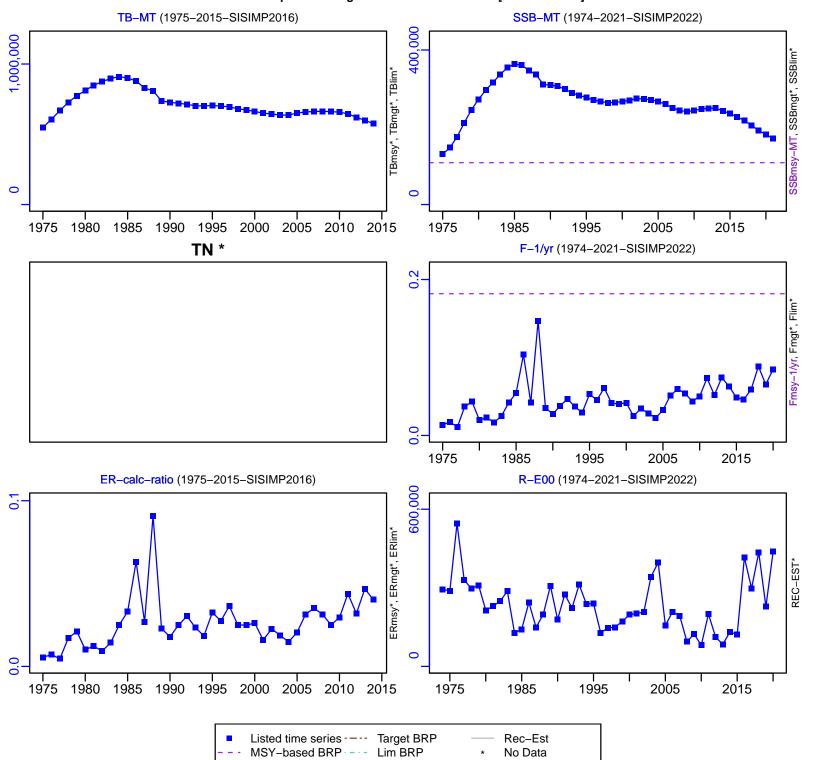
35. REXSOLEGA [Rex sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
36. REYEROCKBSAI [Rougheye rockfish Bering Sea and Aleutian Is-	TB SSB	ER F	TB SSB	ER F
lands]				
37. REYEROCKGA [Rougheye rockfish Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
38. RKCRABAIWS [Red king crab Aleutian Islands Western segment]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

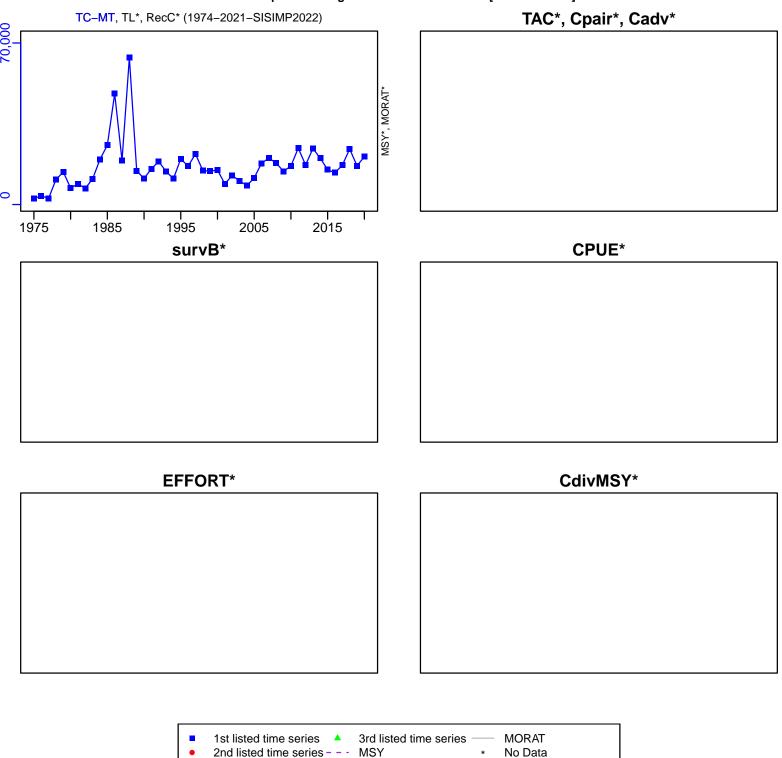
Metadata			
Scientific Name Pleuronectes quadrituberculatus			
Current Assess ID	AFSC-ALPLAICBSAI-1974-2021-SISIMP2022		
Area Bering Sea and Aleutian Islands			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2010,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

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

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



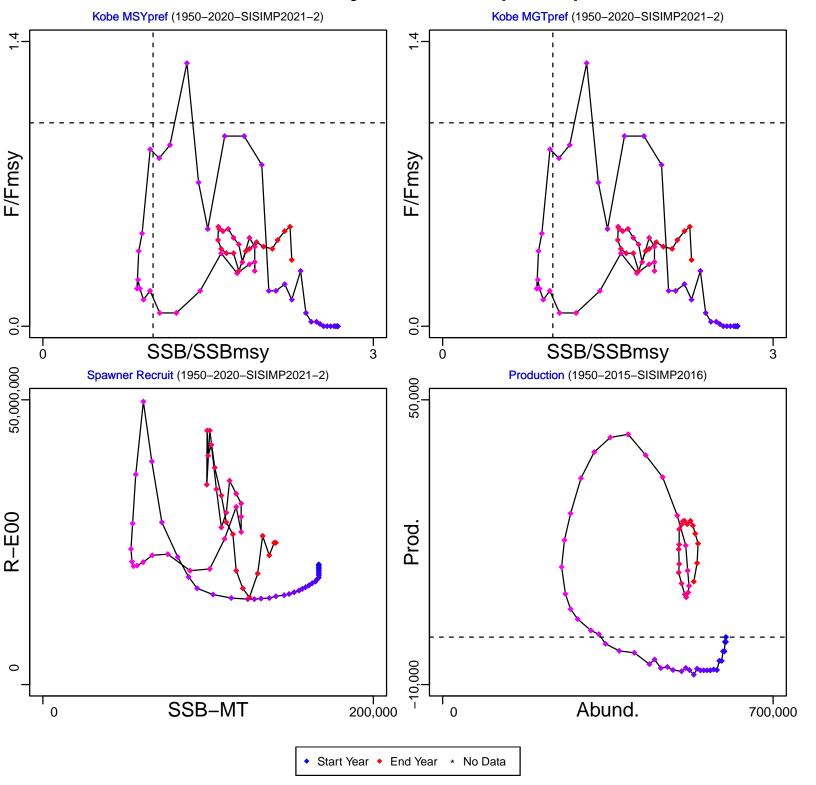


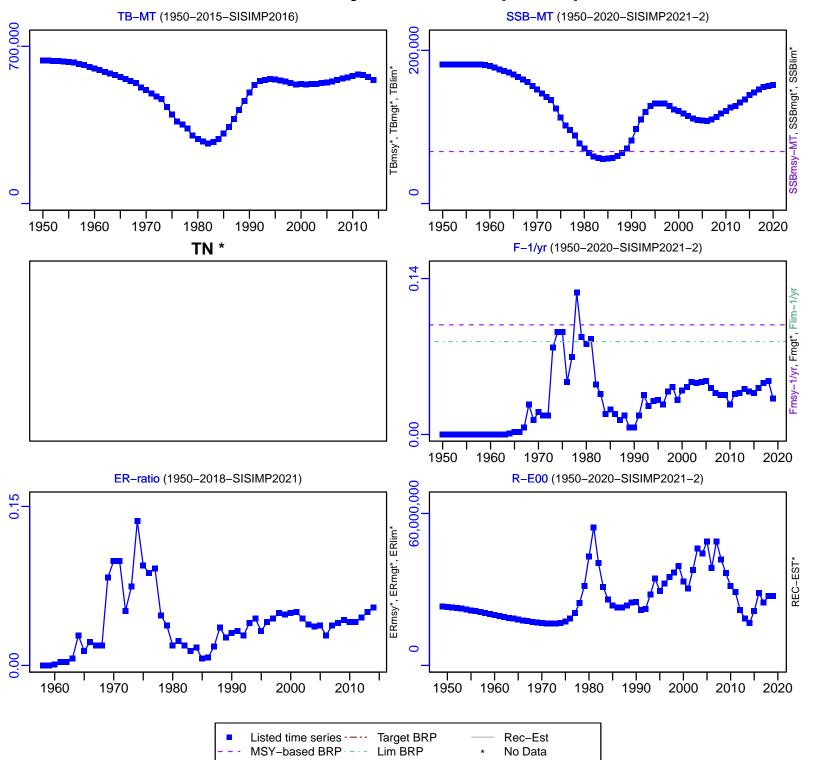


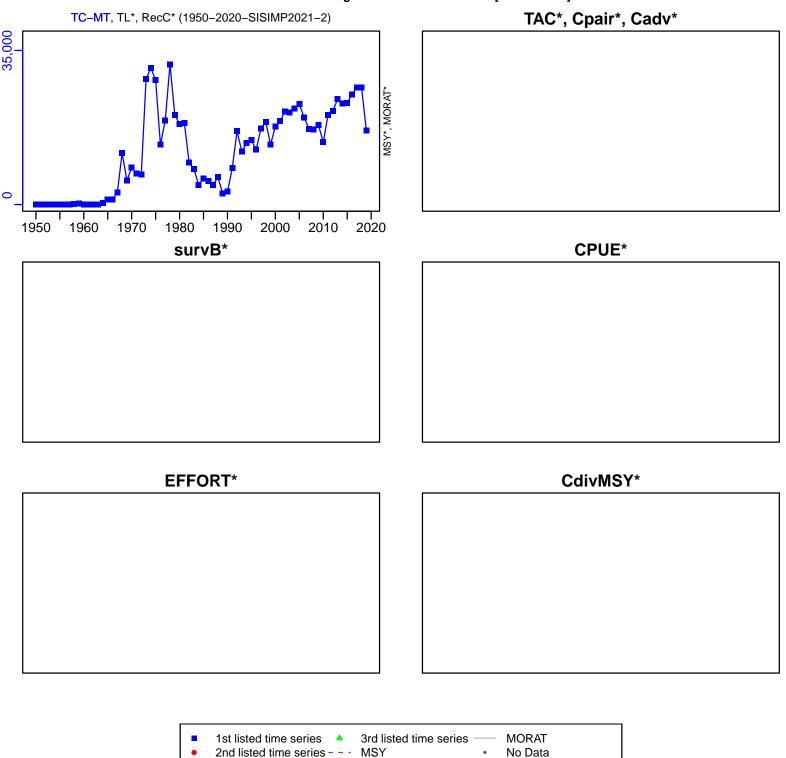
Metadata			
Scientific Name Bathyraja parmifera			
Current Assess ID AFSC-ALSKABSAI-1950-2020-SISIMP2021-2			
Area Bering Sea and Aleutian Islands			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2015, 2016,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

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

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



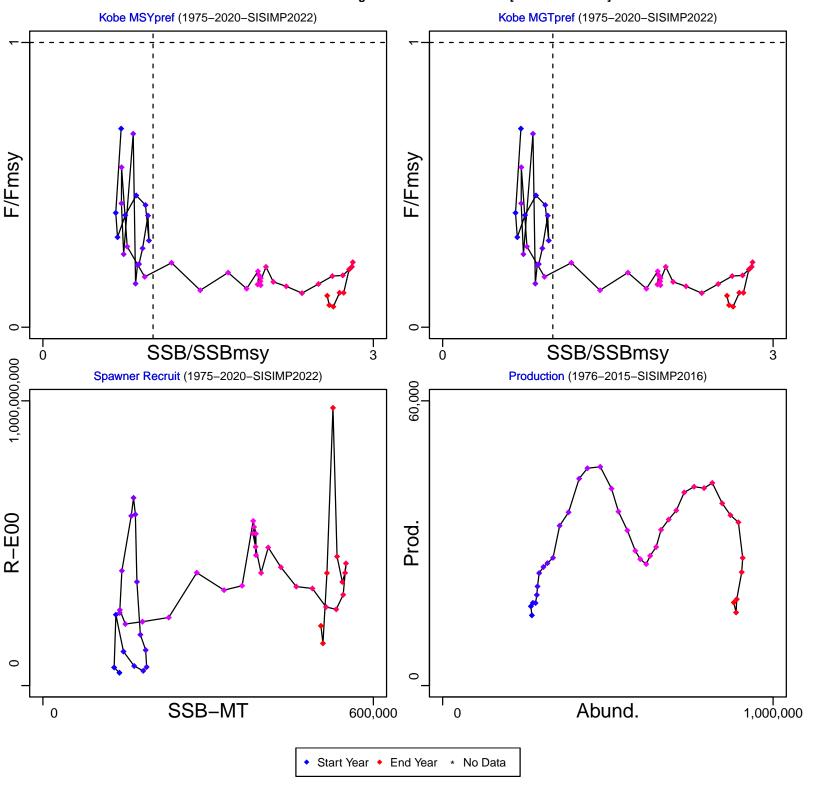


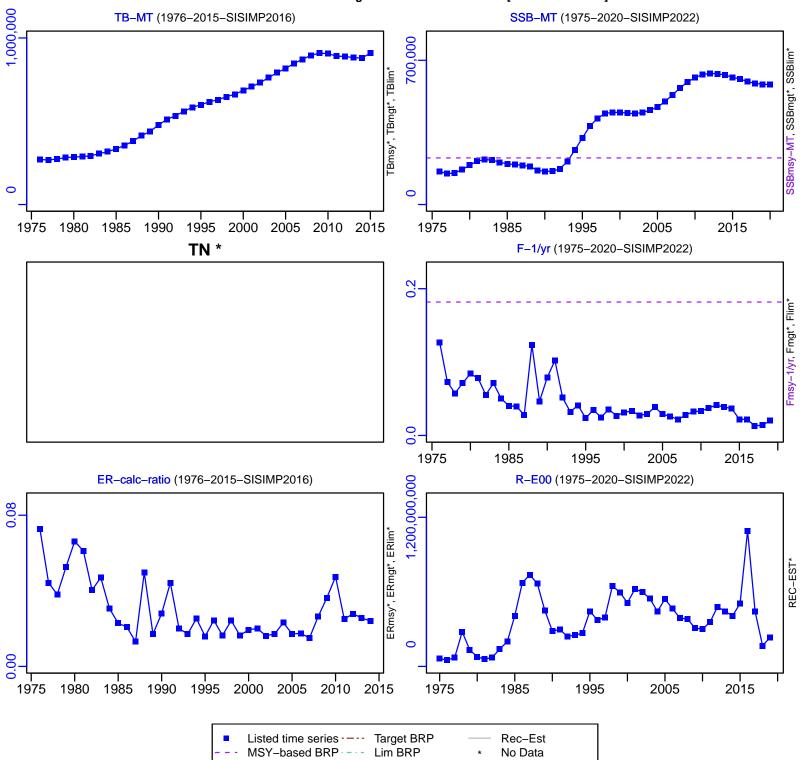


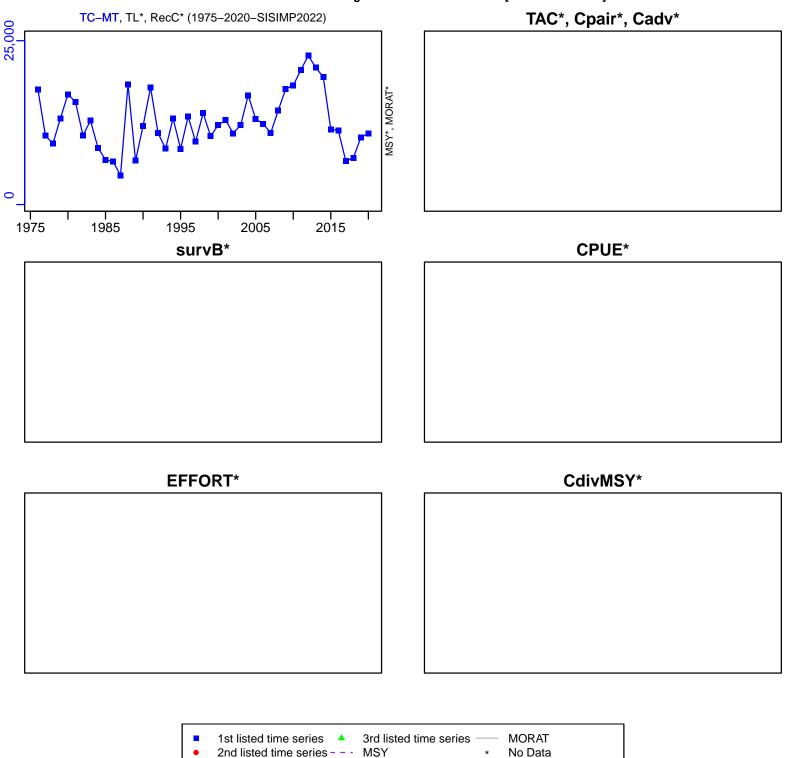
Metadata			
Scientific Name Atheresthes stomias			
Current Assess ID AFSC-ARFLOUNDBSAI-1975-2020-SISIMP2022			
Area Bering Sea and Aleutian Islands			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2010, 2016,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

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

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



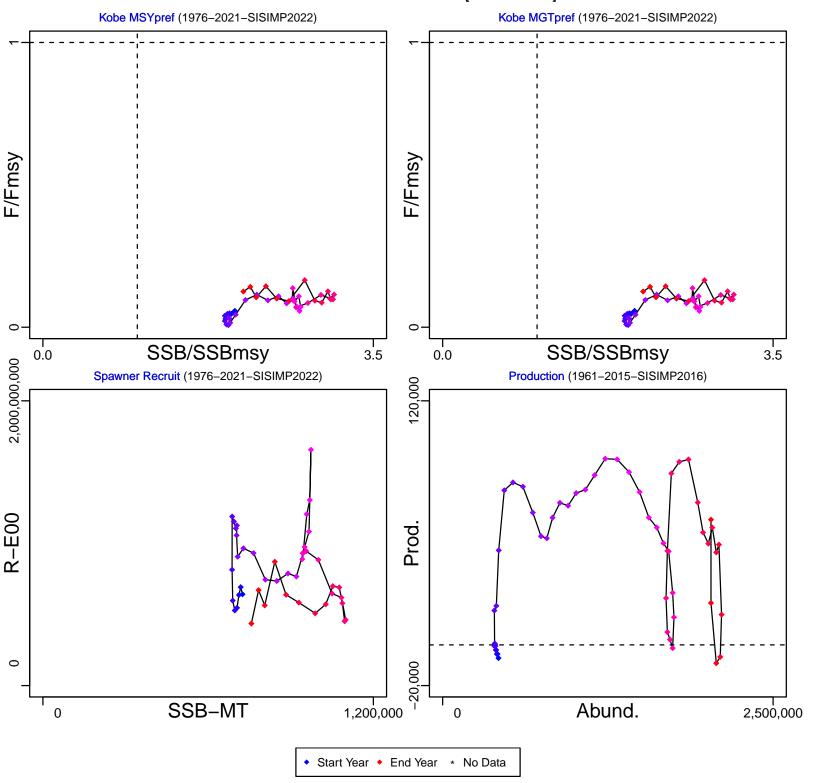


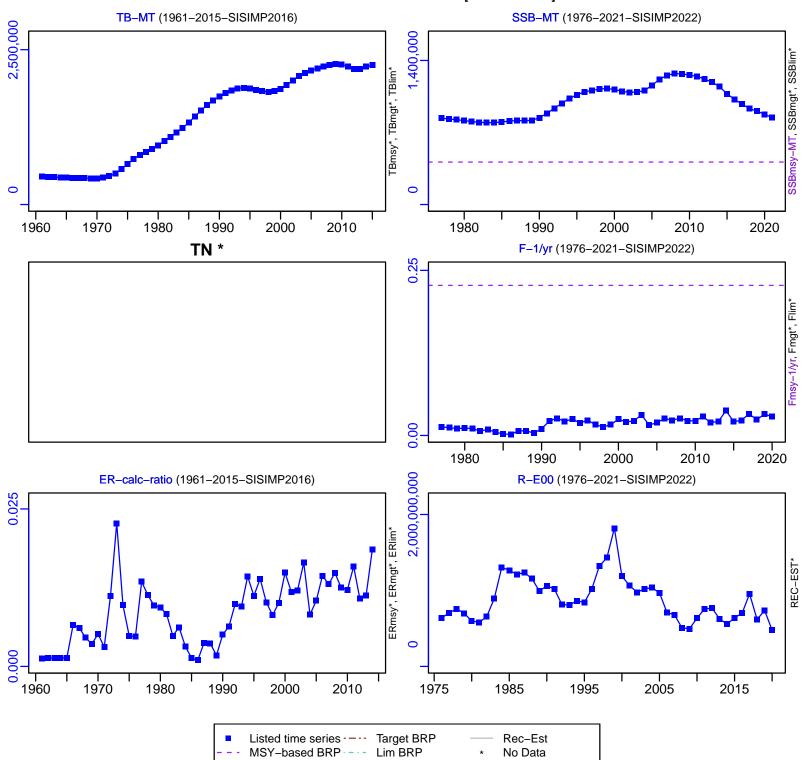


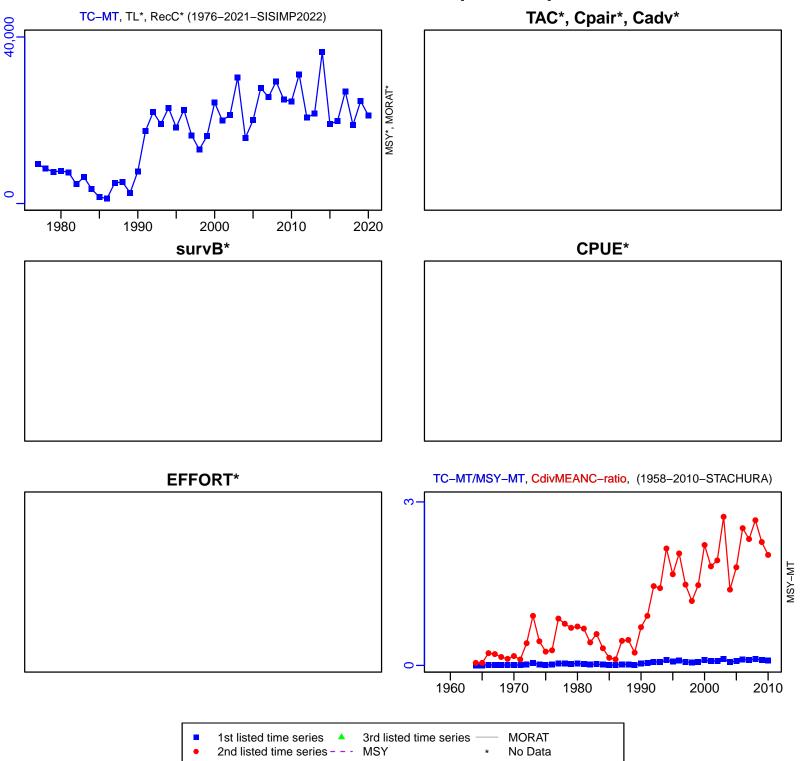
Metadata			
Scientific Name	Atheresthes stomias		
Current Assess ID	AFSC-ARFLOUNDGA-1976-2021-SISIMP2022		
Area Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2010, 2016, 2017, 2015, 2019, 2021		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2010	1,125,923		
SSBmsy	SSBmsy-MT	2021	356,544		
Fmsy	Fmsy-1/yr	2021	0.225		
ERmsy	ERmsy-ratio	2010	0.226		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	254,271		
M	M-1/yr	2010	0.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	Flim-1/yr	2019	0.21		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	2,090,000	-	1+
SSB	SSB-MT	2021	730,753	Females	-
TN	-	-	-	-	-
R	R-E00	2021	$4.36 \times 10^{8}$	-	1
F	F-1/yr	2021	0.028	-	-
ER	ER-calc-ratio	2015	0.018	-	-
TC	TC-MT	2021	21,122		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	1.901		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.05		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.125		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.046		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



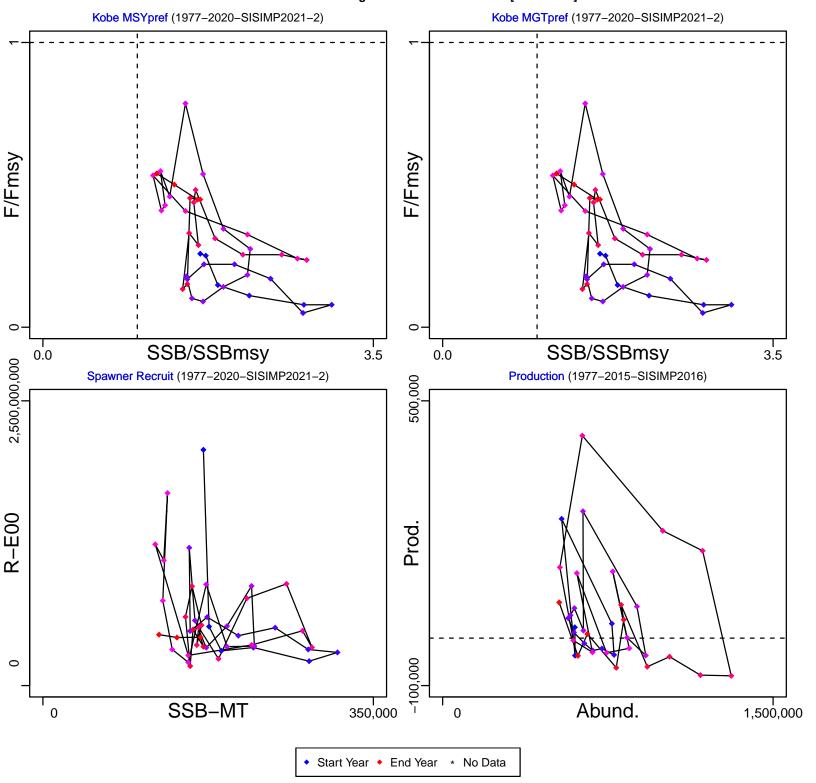


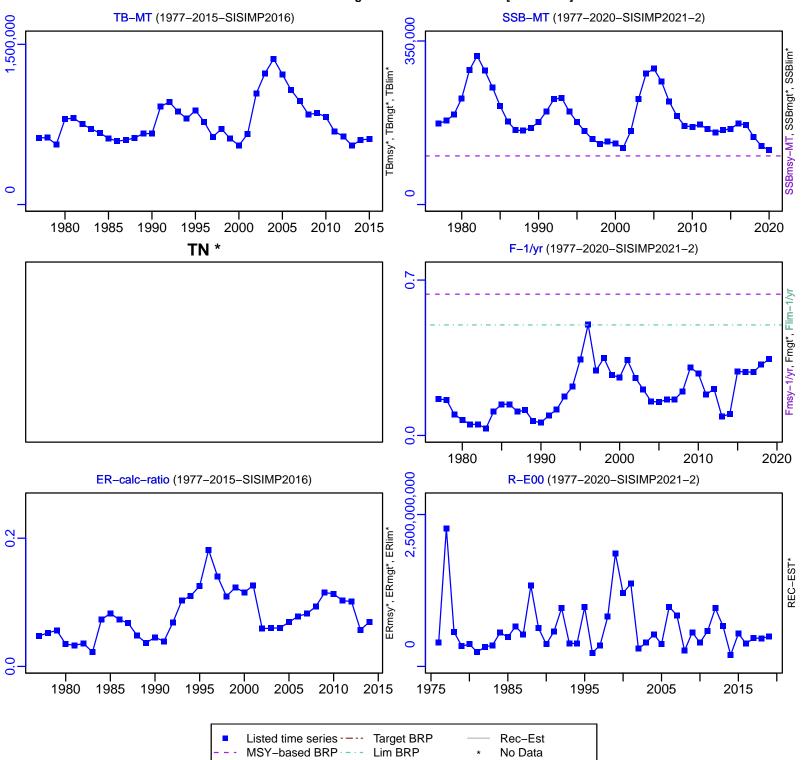


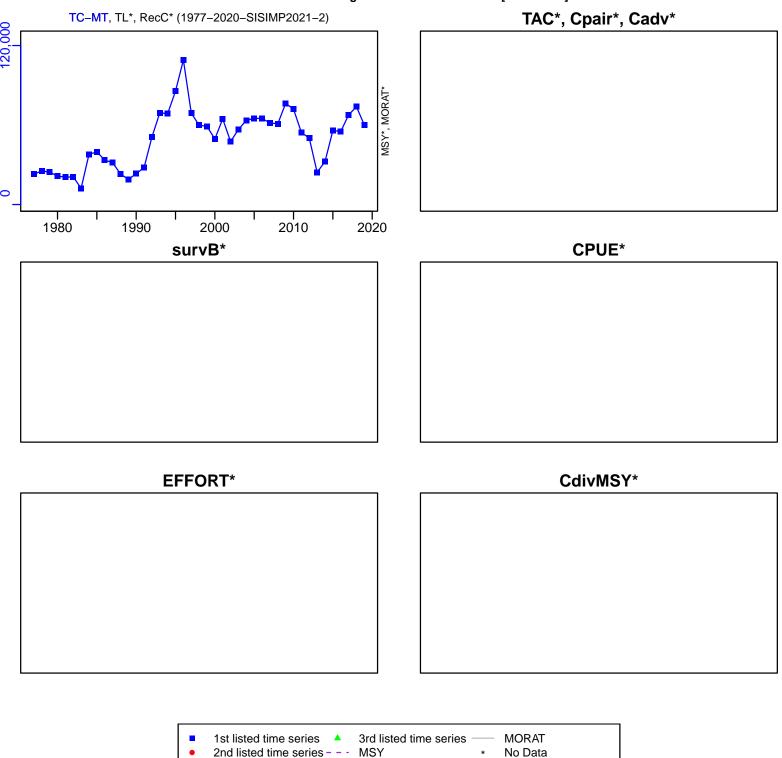
Metadata		
Scientific Name	Pleurogrammus monopterygius	
Current Assess ID	AFSC-ATKABSAI-1977-2020-SISIMP2021-2	
Area Bering Sea and Aleutian Islands		
Management Authority National Marine Fisheries Service, US national management		
Assessor Alaska Fisheries Science Center		
Asmts in RAM	2011, 2016, 2017,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

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

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







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

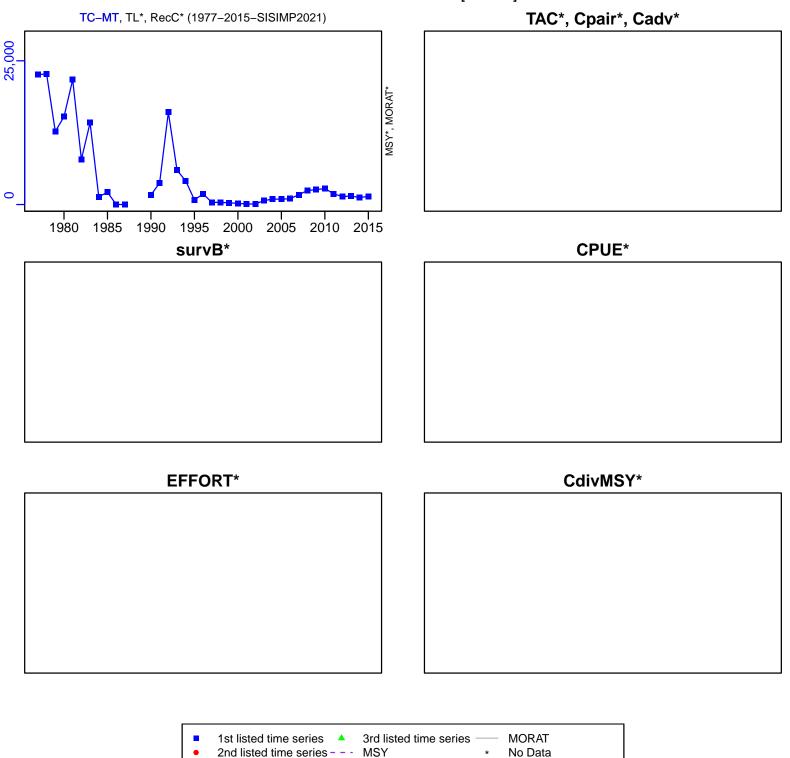
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

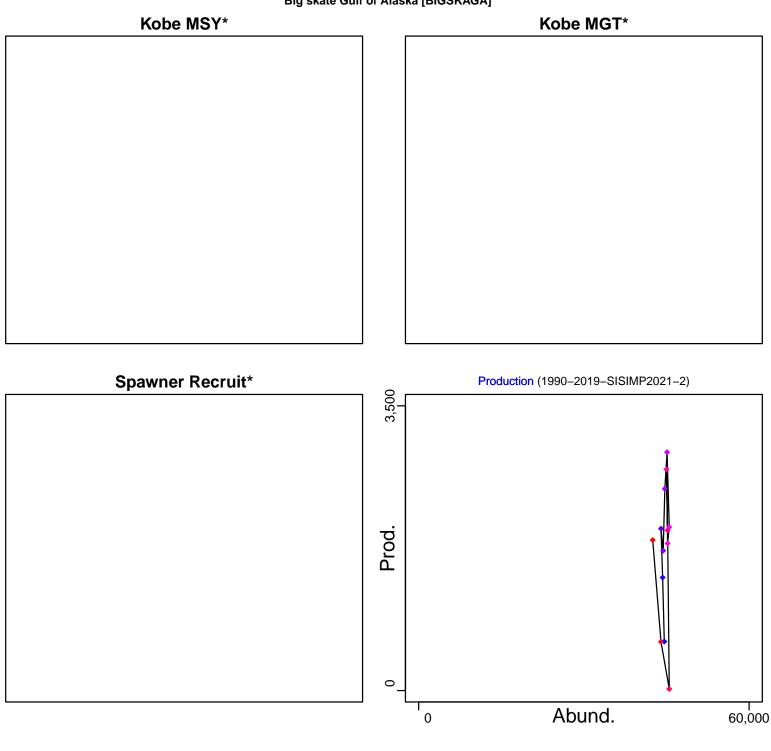


# Big skate Gulf of Alaska [BIGSKAGA]

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

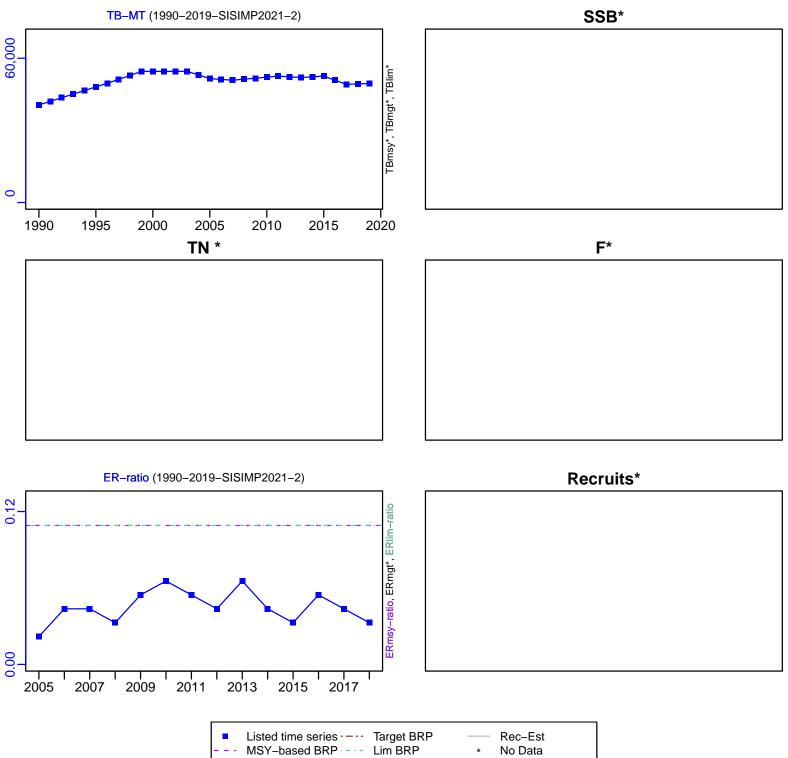
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2019	0.1		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	ERlim-ratio	2019	0.1		

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



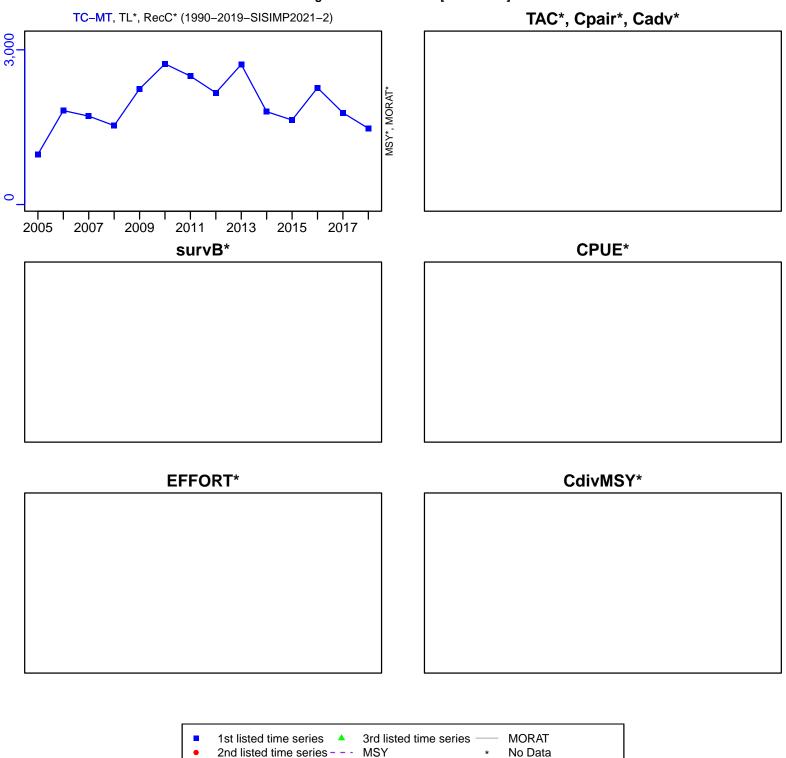
Start Year ◆ End Year \* No Data

### Big skate Gulf of Alaska [BIGSKAGA]



No Data

### Big skate Gulf of Alaska [BIGSKAGA]



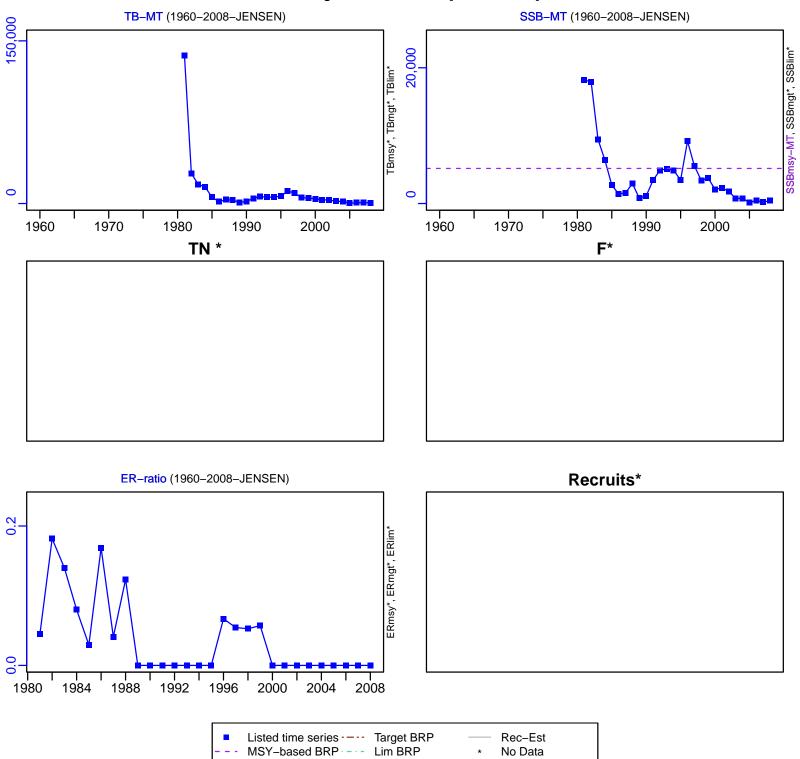
Metadata		
Scientific Name	Paralithodes platypus	
Current Assess ID	AFSC-BKINGCRABPI-1974-2021-SISIMP2021-2	
Area Pribilof Islands		
Management Authority National Marine Fisheries Service, US national manager		
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2008, 2019, 2021, 2017, 2016	

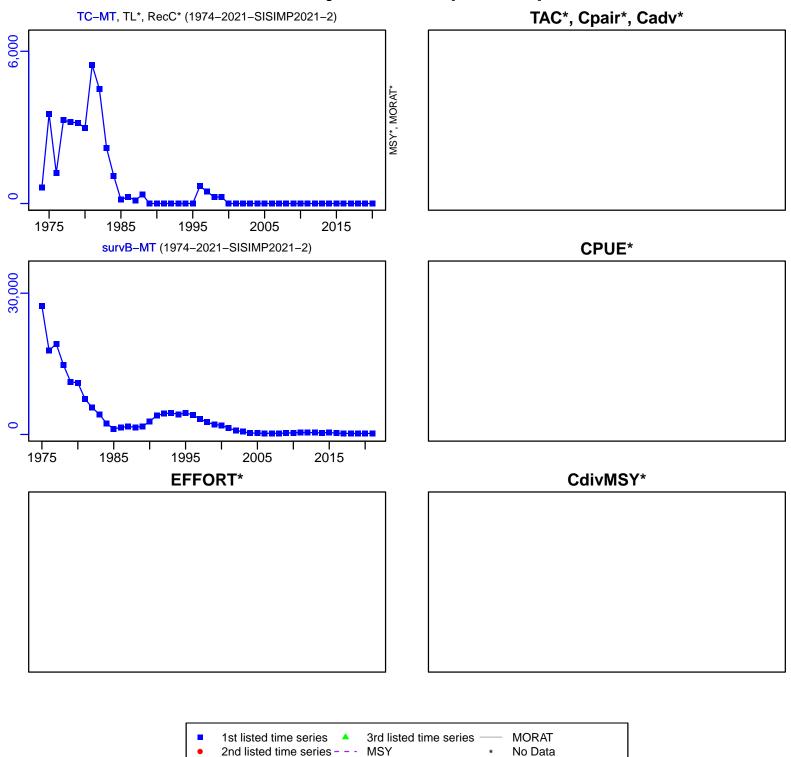
Reference Points				
Type	ID	O Asmt Year Va		
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2008	4209	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	594	-	-
SSB	SSB-MT	2008	345	Males	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0	-	-
TC	TC-MT	2021	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.082		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data



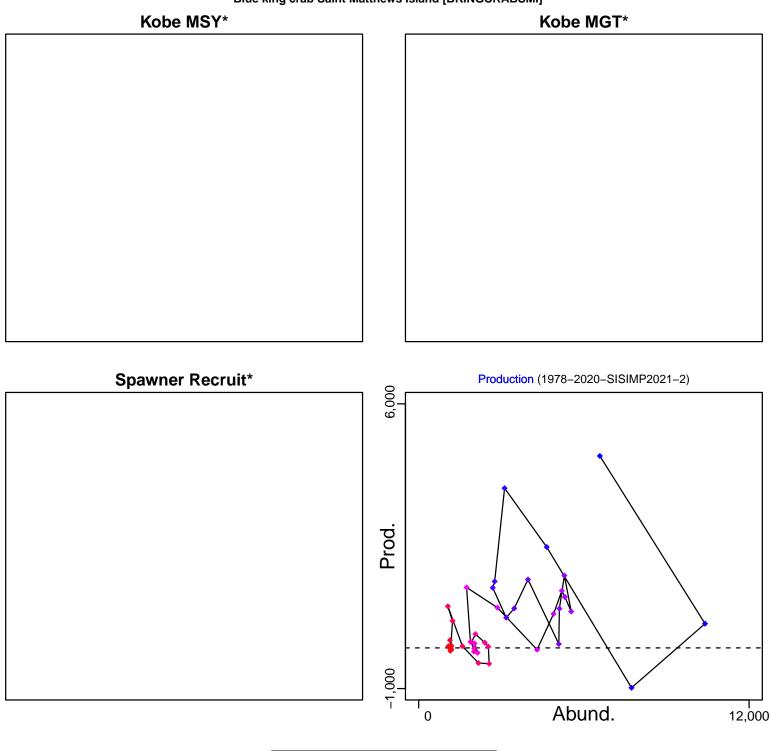


## Blue king crab Saint Matthews Island [BKINGCRABSMI]

Metadata		
Scientific Name	Paralithodes platypus	
Current Assess ID	AFSC-BKINGCRABSMI-1978-2020-SISIMP2021-2	
Area Saint Matthews Island		
Management Authority National Marine Fisheries Service, US national manager		
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2008, 2016, 2017, 2018, 2019, 2020	

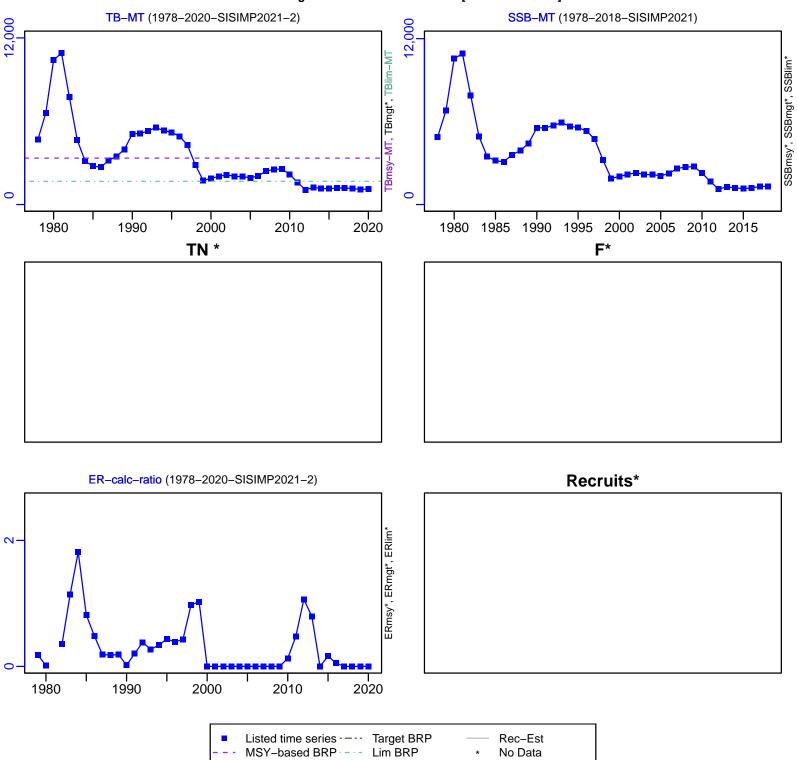
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2020	3340		
SSBmsy	SSBmsy-MT	2008	3351		
Fmsy	Fmsy-pr-1/yr	2008	0.18		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	TBlim-MT	2020	1670		
SSBlim	-	-	-		
Flim	-	-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

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

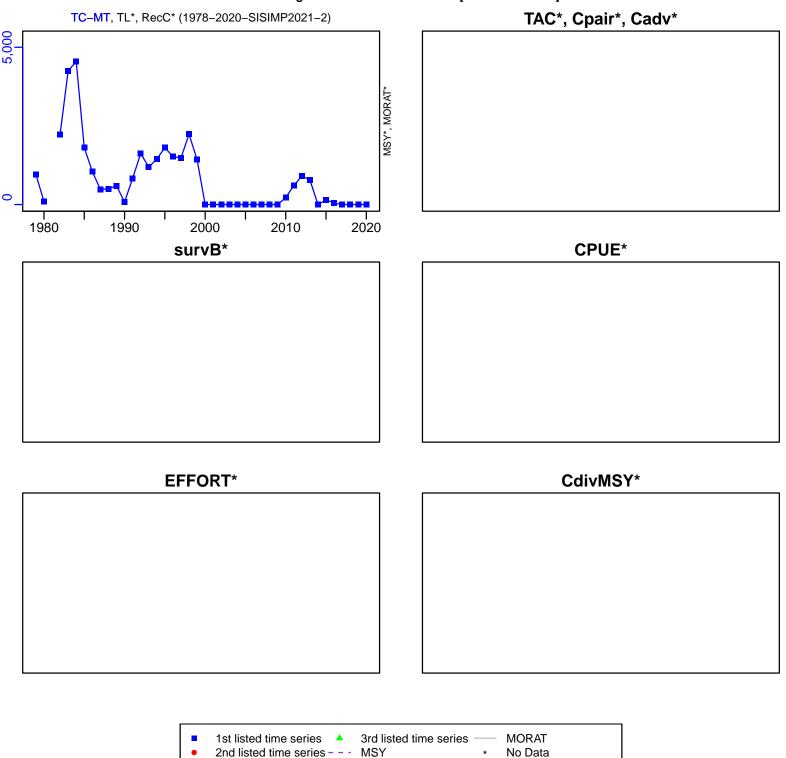


Start Year → End Year → No Data

#### Blue king crab Saint Matthews Island [BKINGCRABSMI]



### Blue king crab Saint Matthews Island [BKINGCRABSMI]

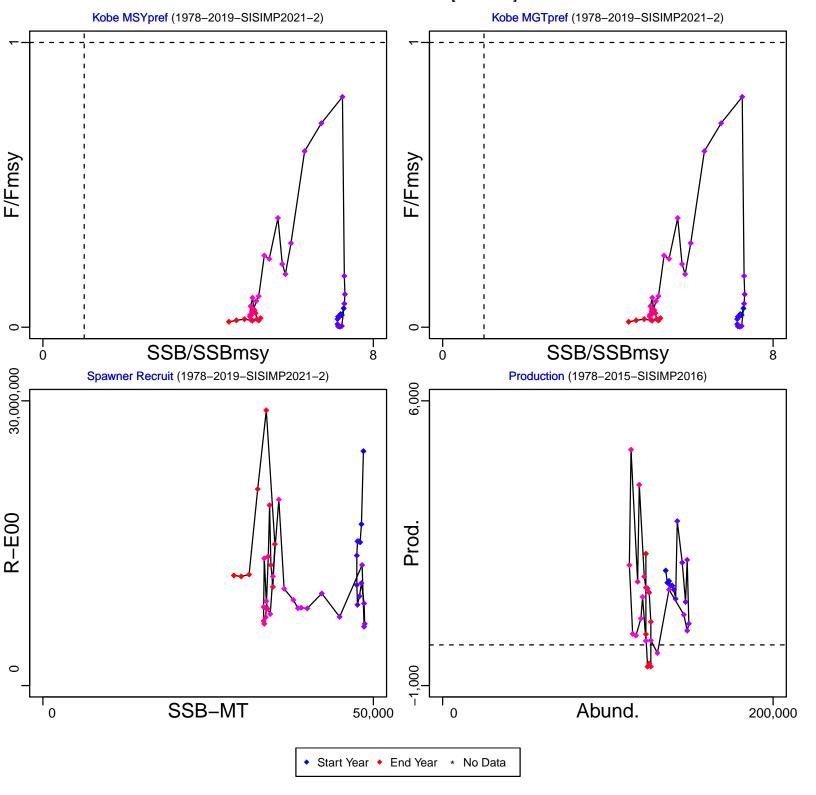


## Dover sole Gulf of Alaska [DSOLEGA]

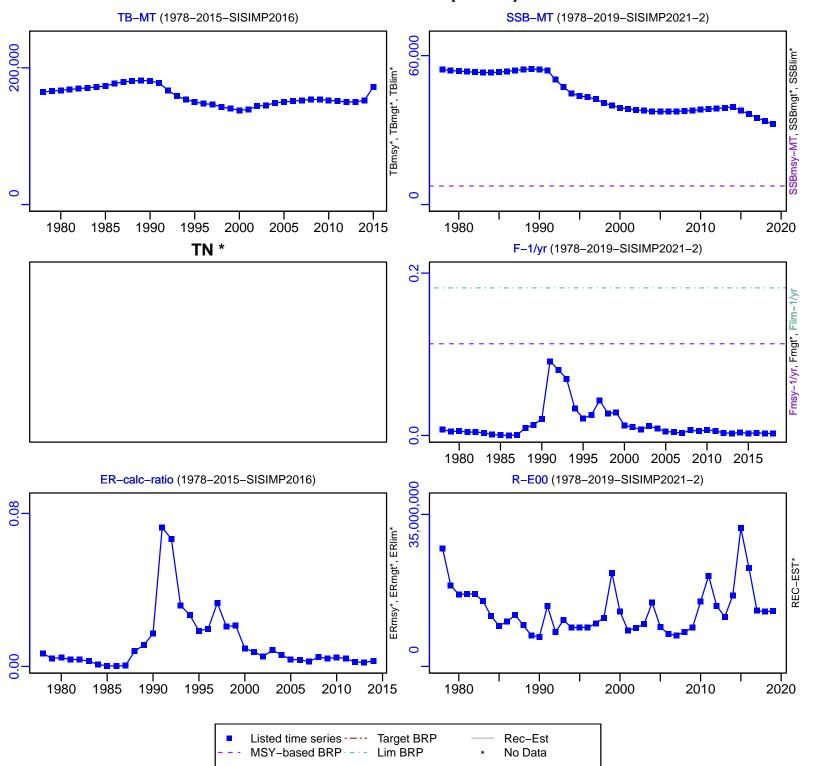
Metadata			
Scientific Name	Microstomus pacificus		
Current Assess ID	AFSC-DSOLEGA-1978-2019-SISIMP2021-2		
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2009, 2015, 2016, 2017, 2019		

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

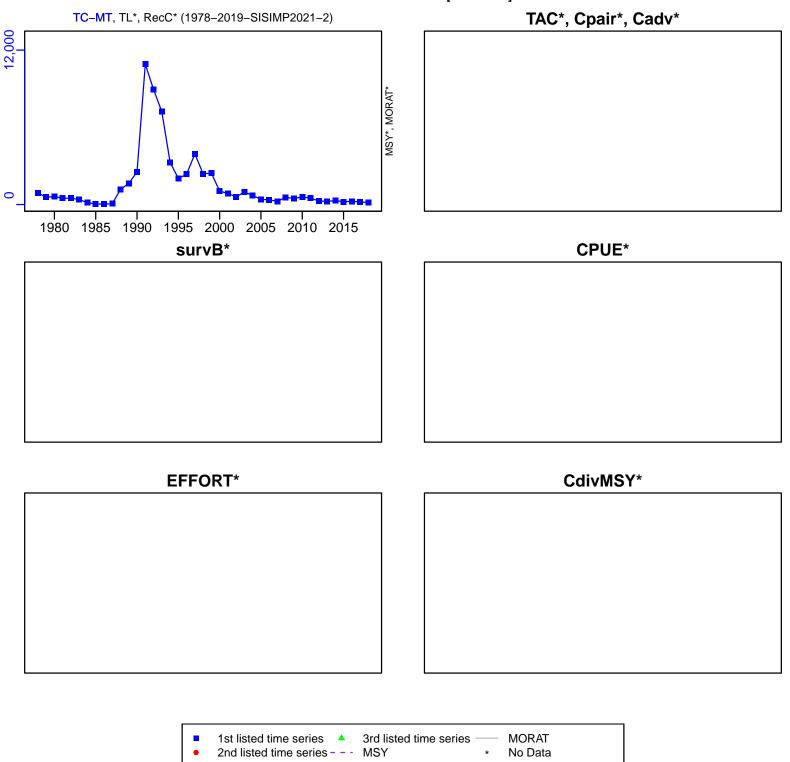
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	141,000	-	0+
SSB	SSB-MT	2019	28,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	11,600,000	-	0
F	F-1/yr	2019	0.002	-	-
ER	ER-calc-ratio	2015	0.003	-	-
TC	TC-MT	2019	144		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	4.339		
F/Fmsy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



#### Dover sole Gulf of Alaska [DSOLEGA]



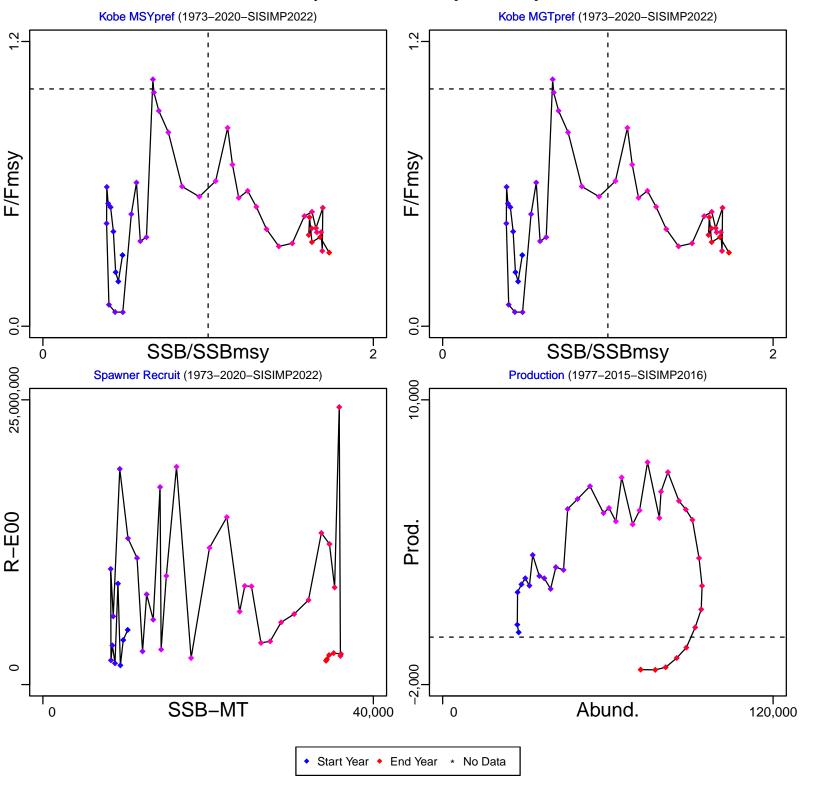
### Dover sole Gulf of Alaska [DSOLEGA]

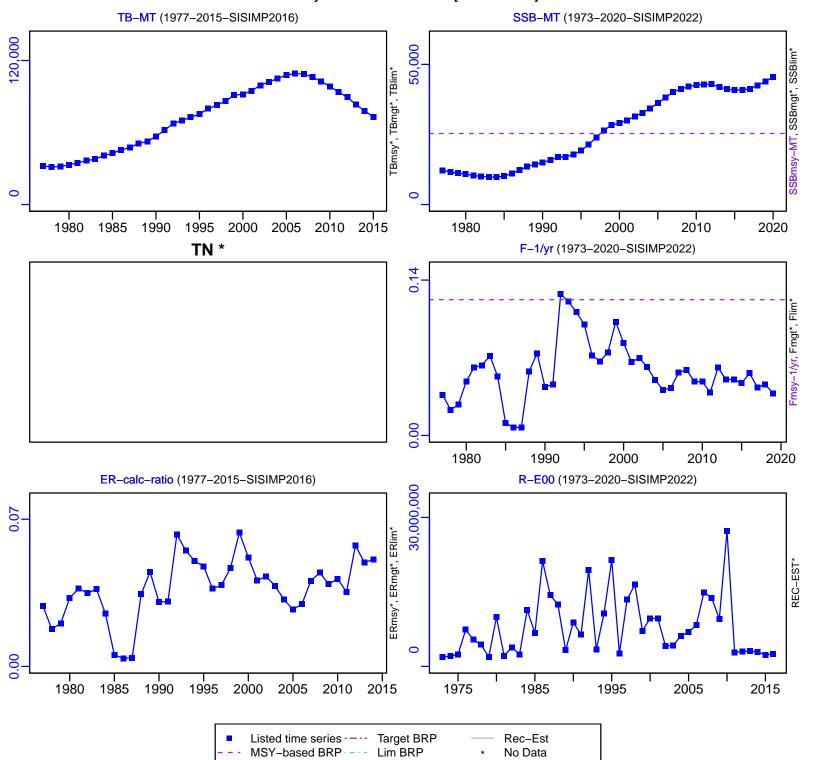


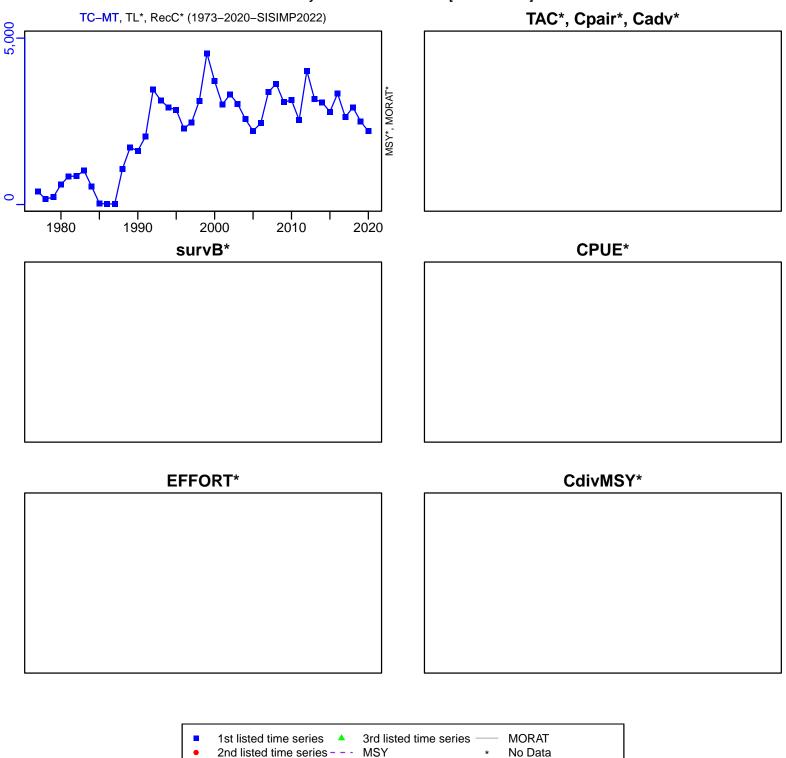
Metadata			
Scientific Name	Sebastes variabilis		
Current Assess ID	AFSC-DUSROCKGA-1973-2020-SISIMP2022		
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2010, 2016, 2018, 2020, 2015, 2018,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

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

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



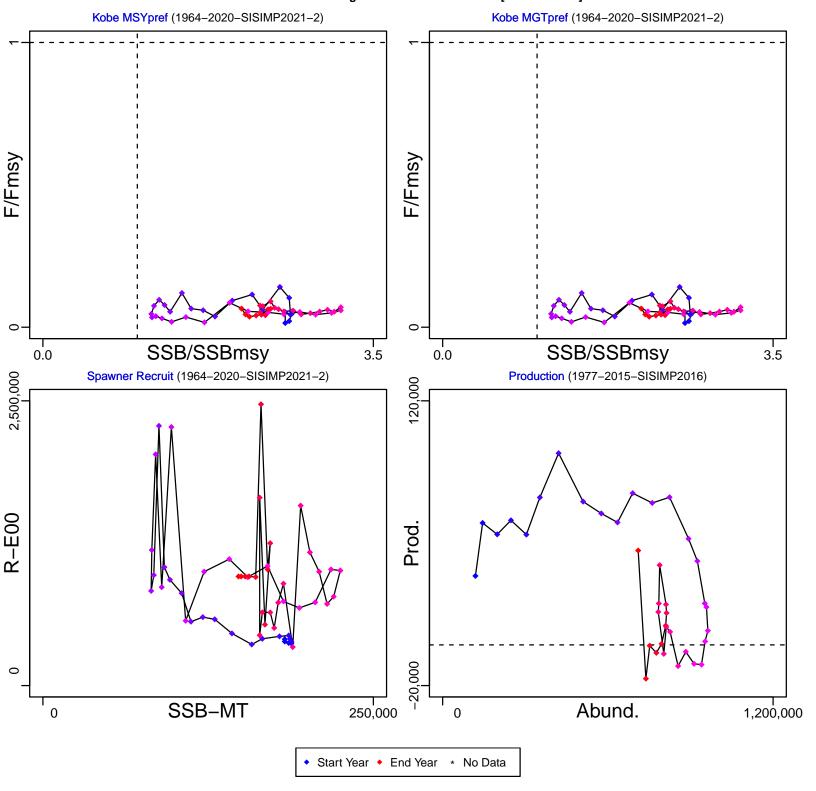


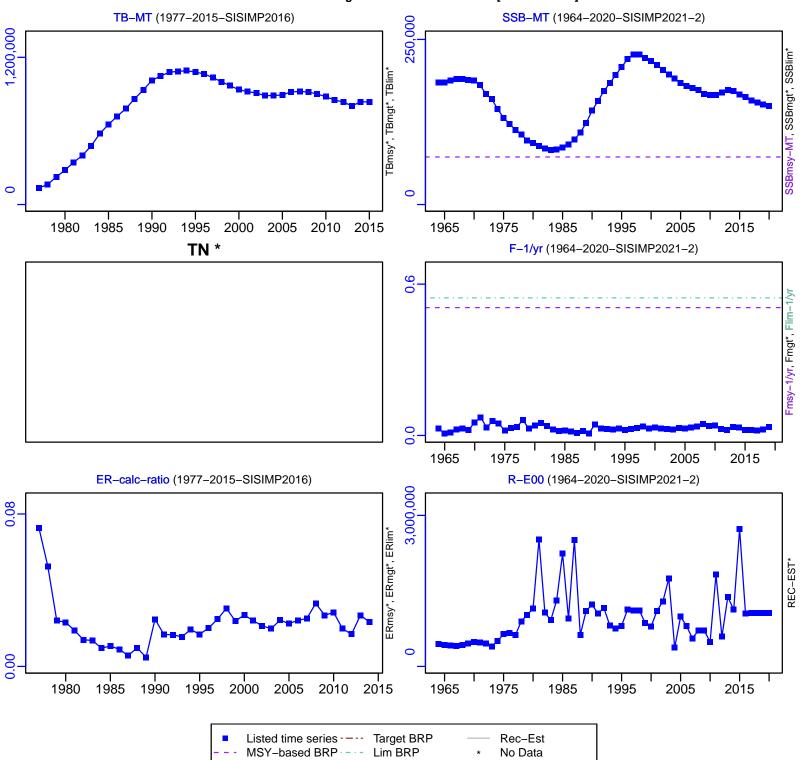


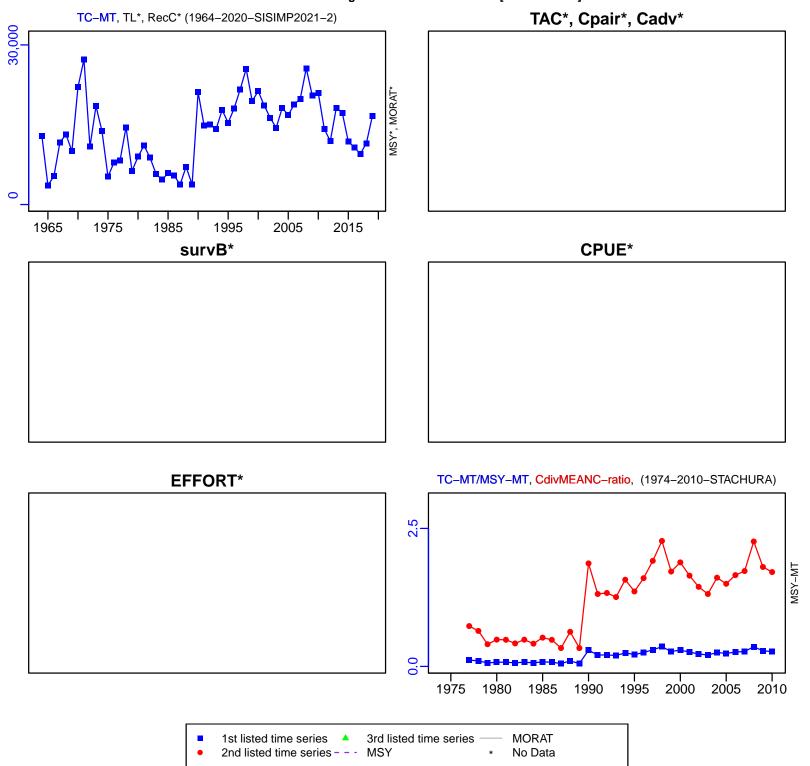
Metadata			
Scientific Name	Hippoglossoides elassodon		
Current Assess ID	AFSC-FLSOLEBSAI-1964-2020-SISIMP2022		
Area Bering Sea and Aleutian Islands			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2018, 2018,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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2020	71,300	
Fmsy	Fmsy-1/yr	2020	0.46	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2010	336,027	
MSY	MSY-MT	2010	83,321	
M	M-1/yr	2010	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2020	0.495	
ERlim	-	-	-	

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



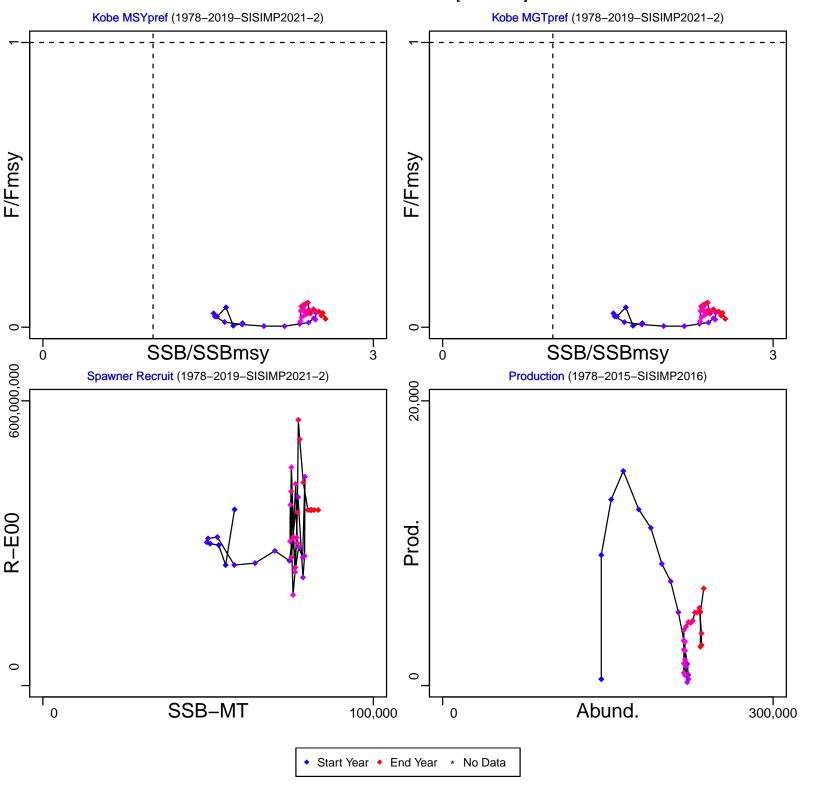


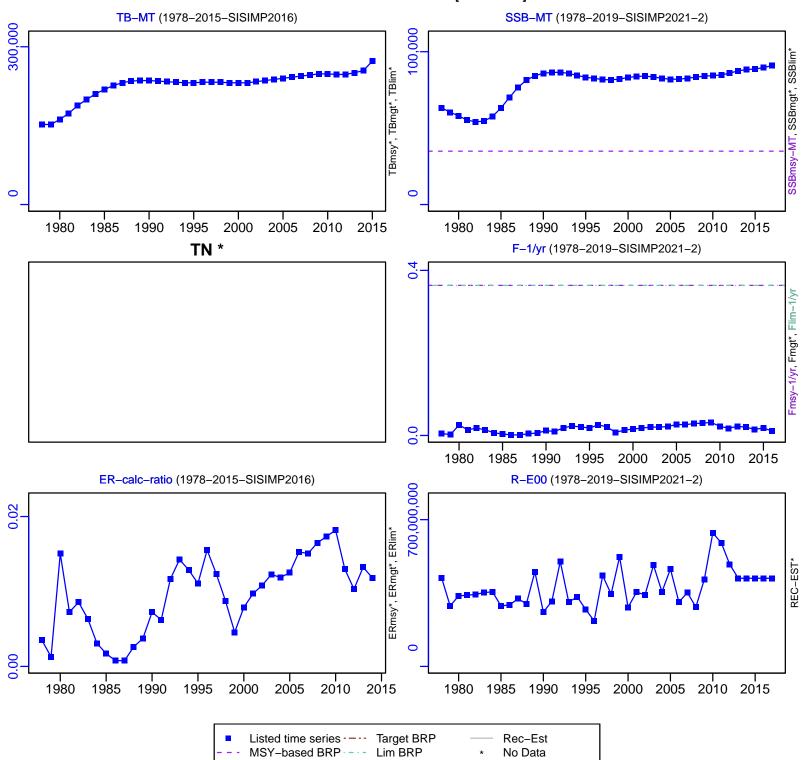


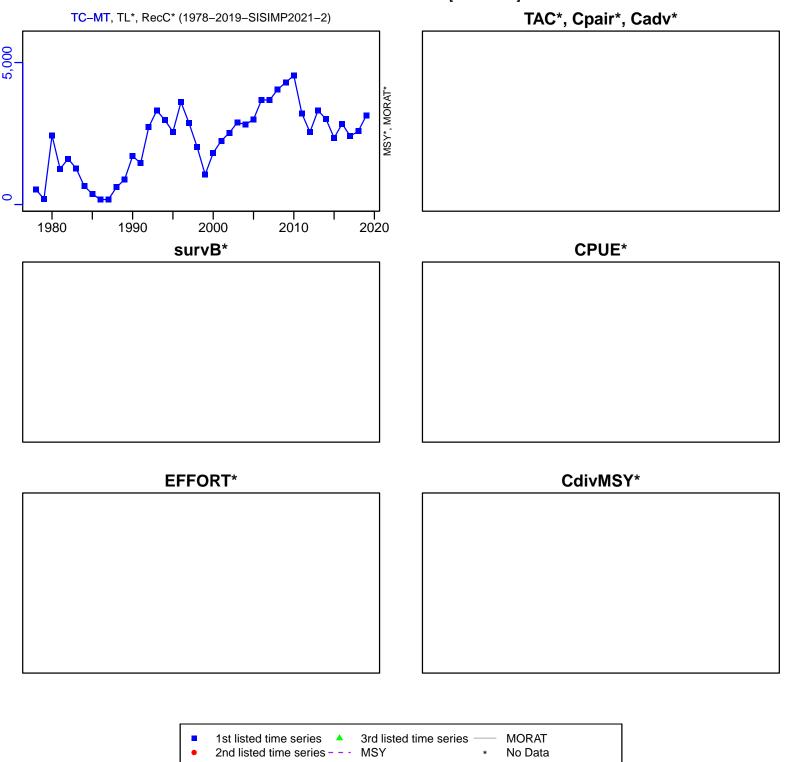
Metadata			
Scientific Name	Hippoglossoides elassodon		
Current Assess ID	AFSC-FLSOLEGA-1978-2019-SISIMP2021-2		
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2015, 2016, 2017, 2018,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

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

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



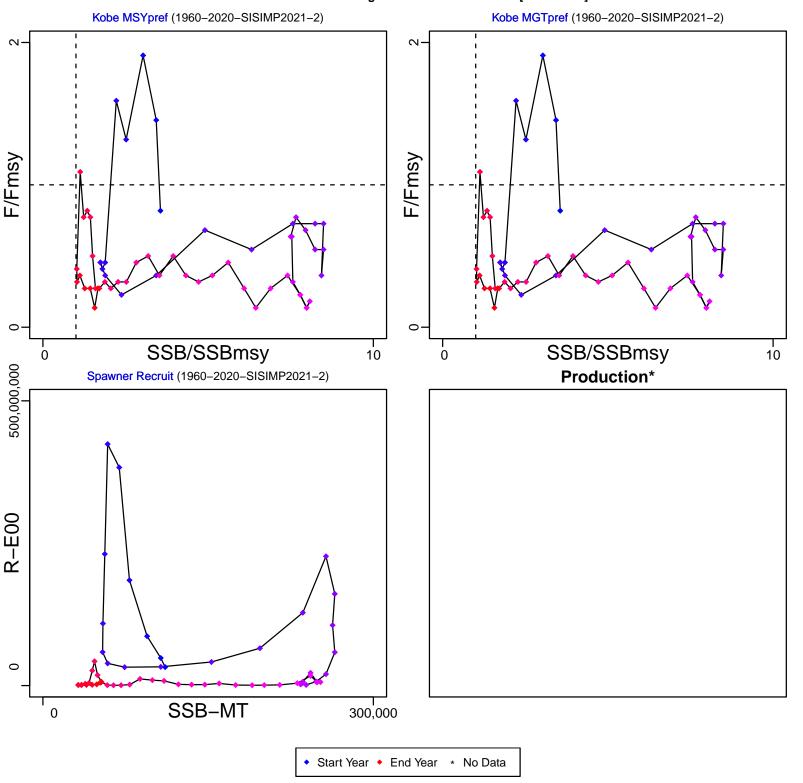


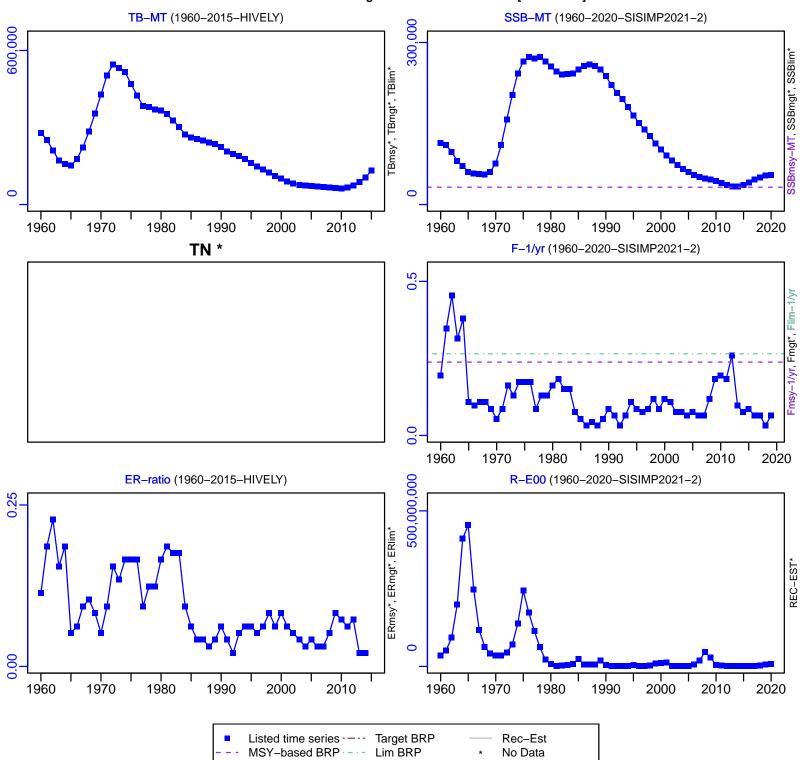


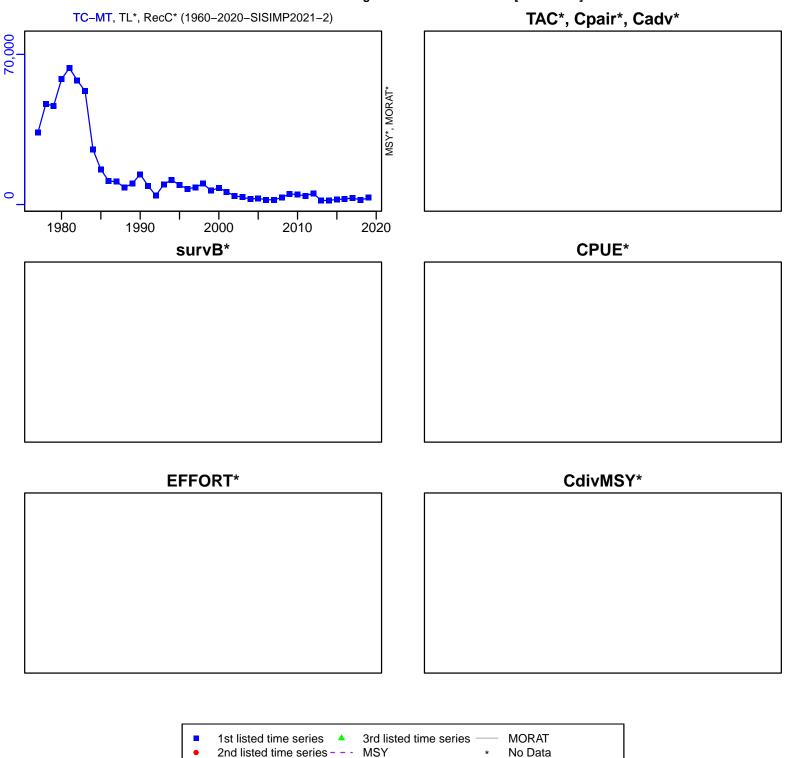
Metadata			
Scientific Name	Reinhardtius hippoglossoides		
Current Assess ID	AFSC-GHALBSAI-1960-2020-SISIMP2022		
Area Bering Sea and Aleutian Islands			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2016, 2017,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

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

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





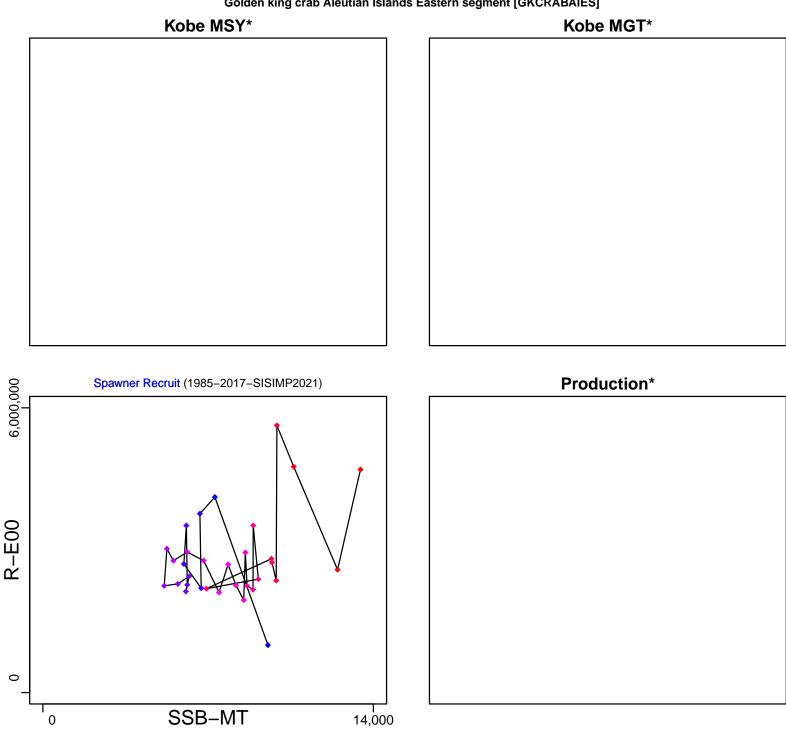


## Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

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

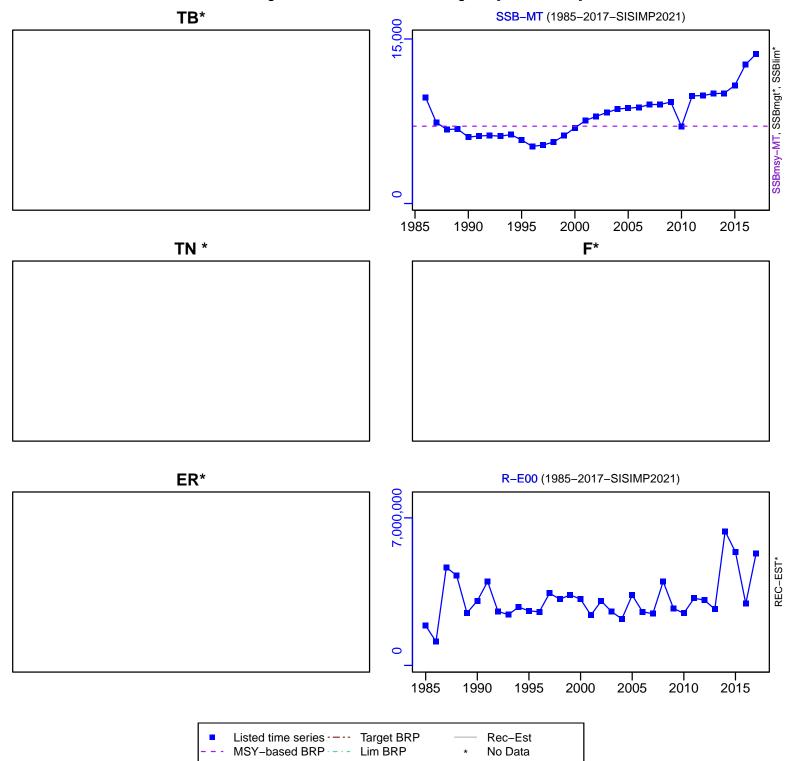
Reference Points					
Type	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2017	6954		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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

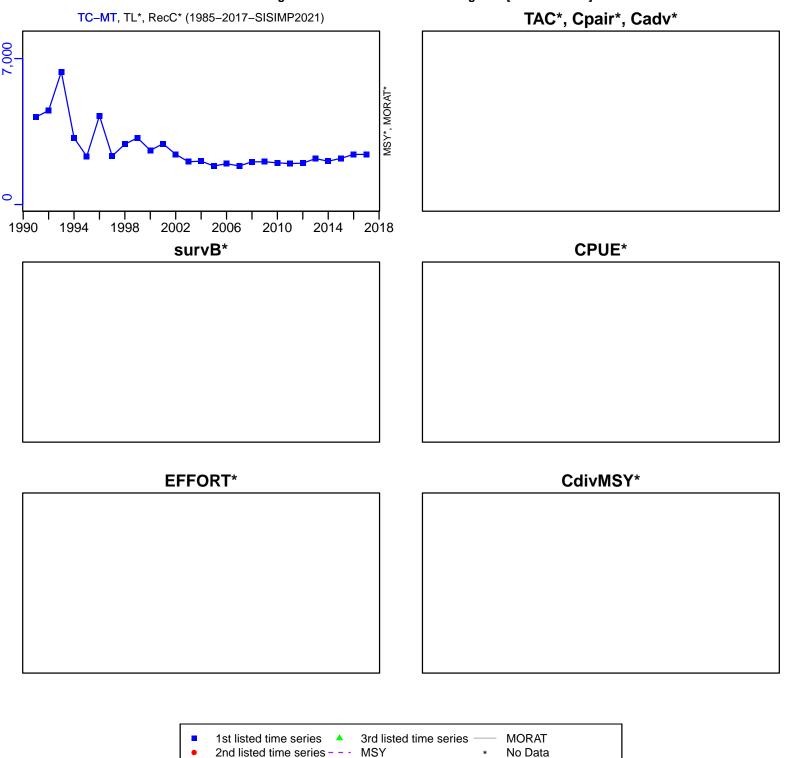


Start Year • End Year \* No Data

### Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]



### Golden king crab Aleutian Islands Eastern segment [GKCRABAIES]

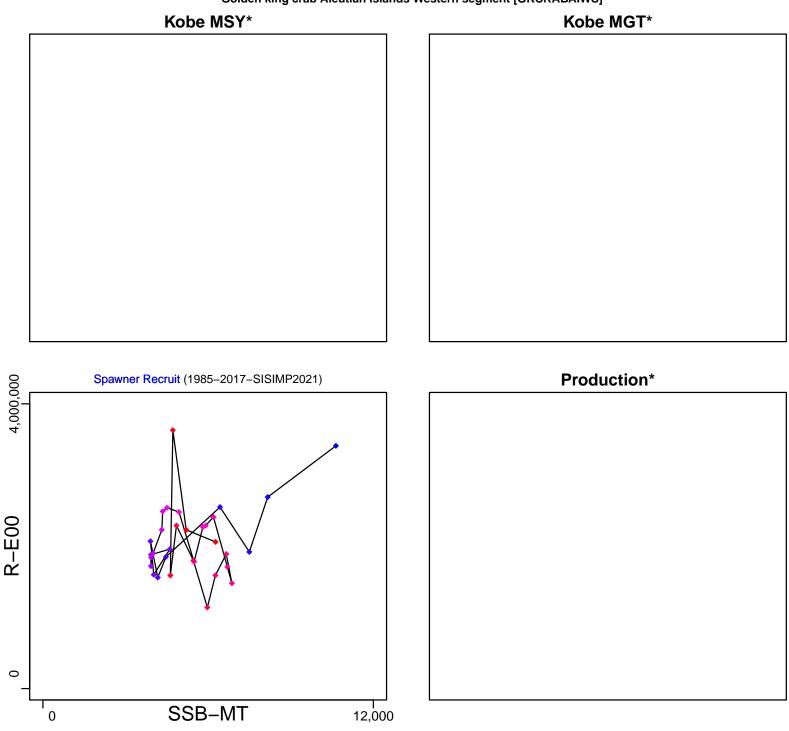


## Golden king crab Aleutian Islands Western segment [GKCRABAIWS]

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

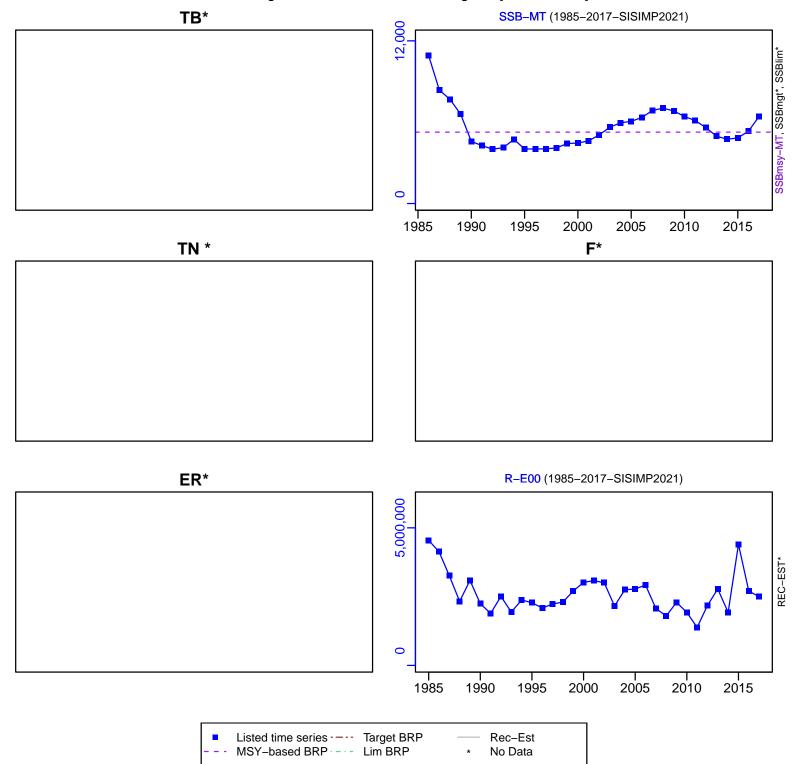
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2017	5138	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

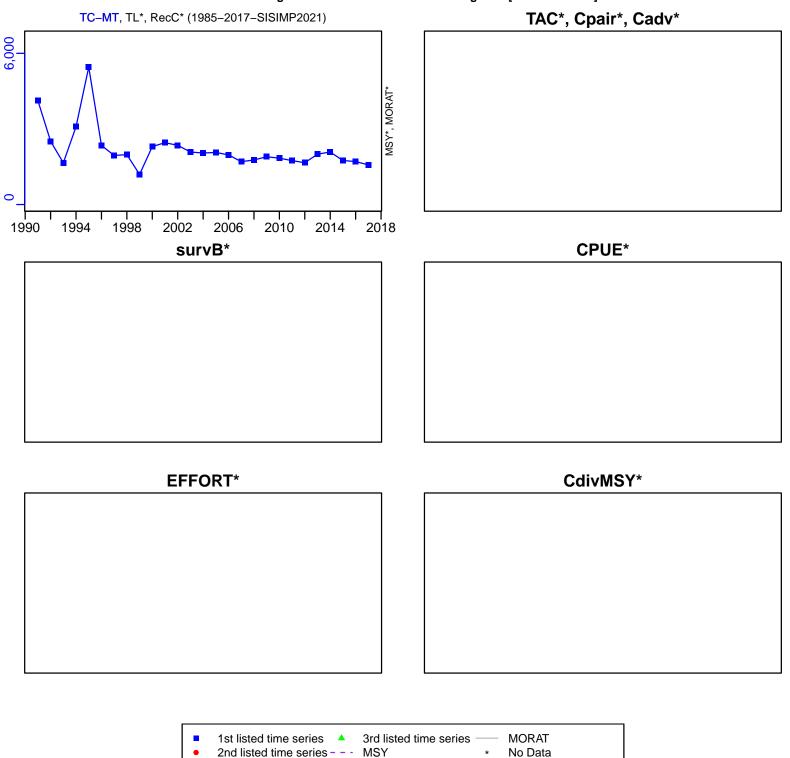


Start Year → End Year → No Data

### Golden king crab Aleutian Islands Western segment [GKCRABAIWS]



### Golden king crab Aleutian Islands Western segment [GKCRABAIWS]



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

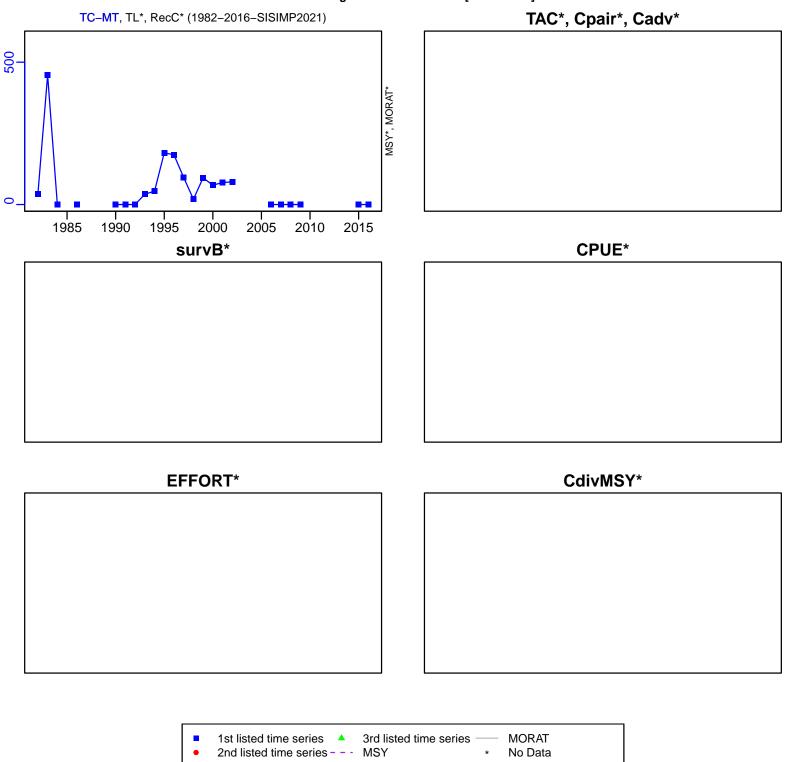
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Г	1
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data



# Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

Metadata	
Scientific Name	Enteroctopus dofleini
Current Assess ID	AFSC-GPOCTOBSAI-1997-2019-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2017, 2019

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	268		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

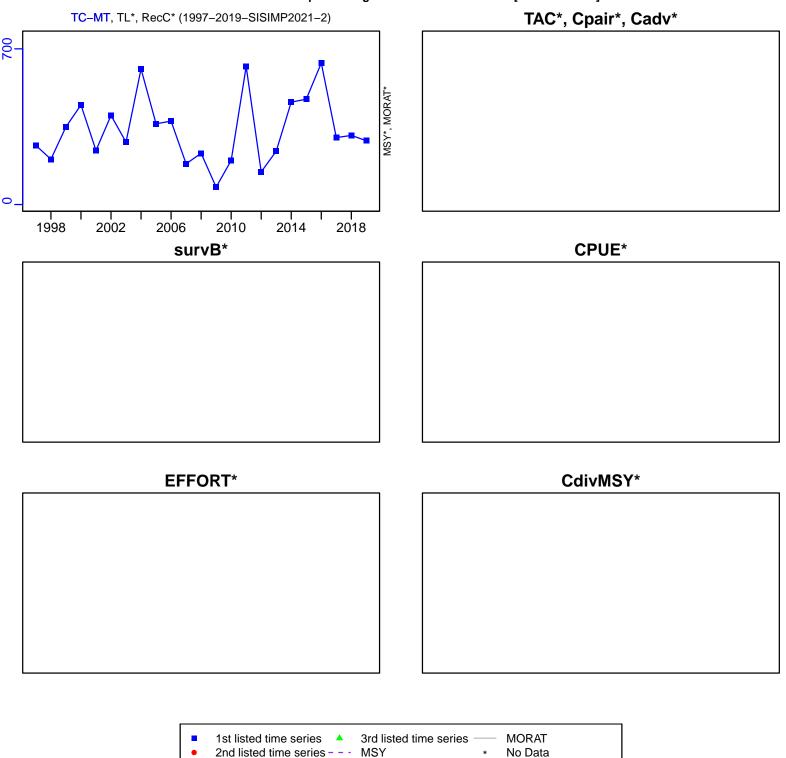
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spawner Redruit	1 Todastion

◆ Start Year ◆ End Year \* No Data

## Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

### Giant Pacific octopus Bering Sea and Aleutian Islands [GPOCTOBSAI]

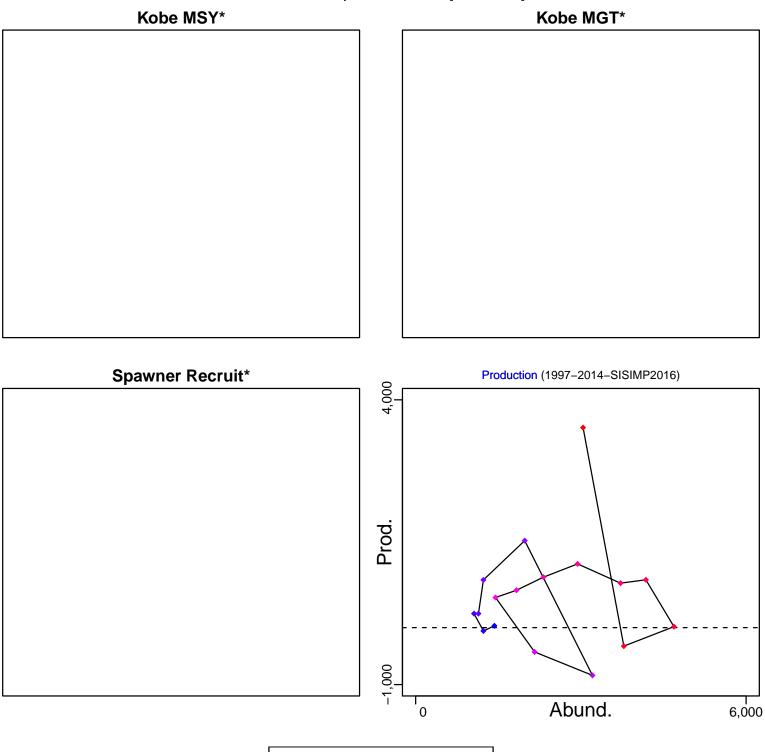


# Giant Pacific octopus Gulf of Alaska [GPOCTOGA]

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

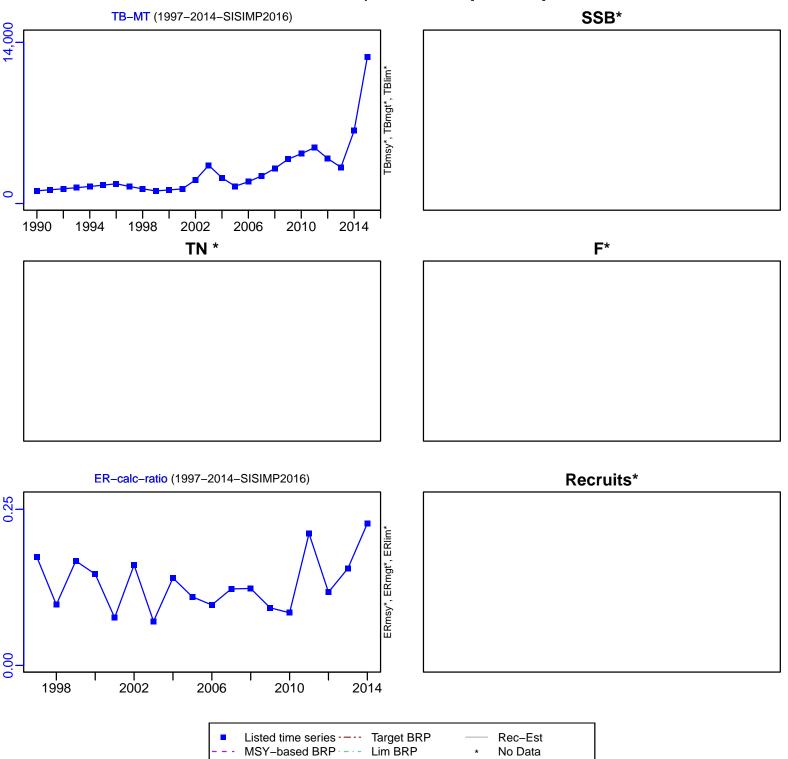
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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



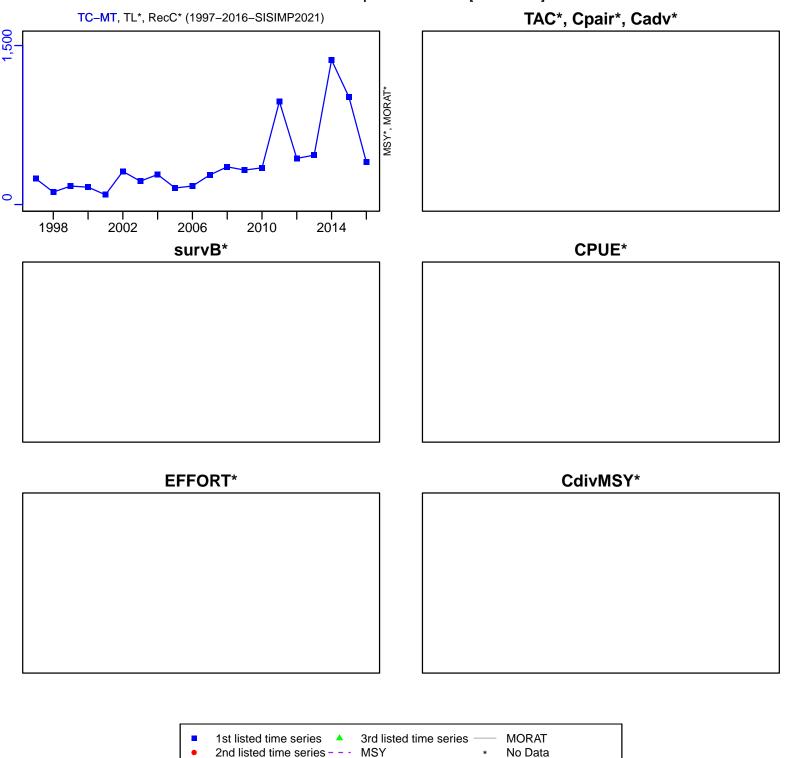
Start Year → End Year → No Data

#### Giant Pacific octopus Gulf of Alaska [GPOCTOGA]



No Data

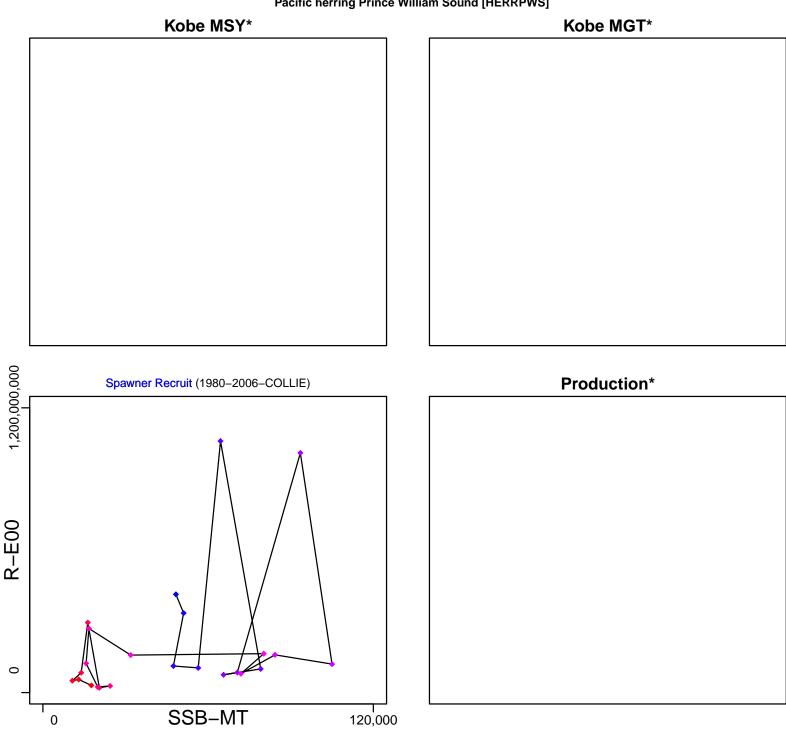
### Giant Pacific octopus Gulf of Alaska [GPOCTOGA]



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			

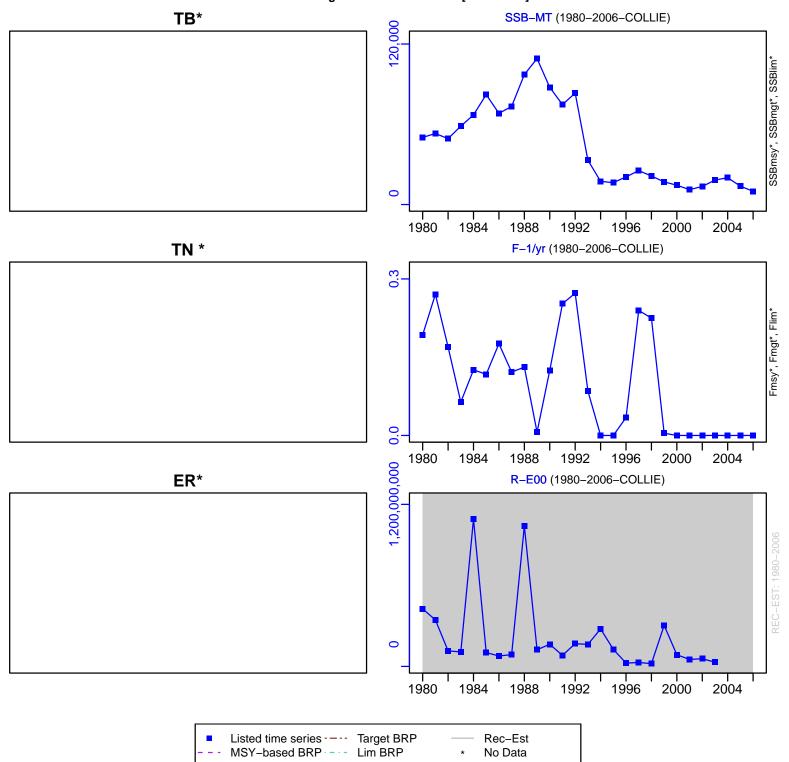
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2006	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

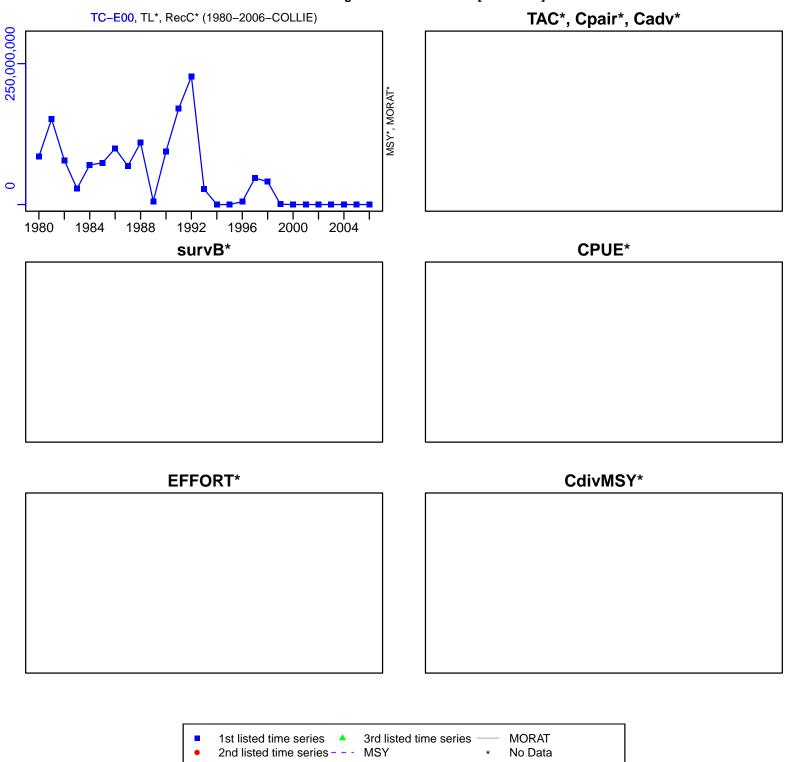
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2006	9500	Both	3+
TN	-	-	-	-	-
R	R-E00	2006	30,300,000	-	3
F	F-1/yr	2006	0	Both	3+
ER	-	-	-	-	-
TC	TC-E00	2006	0		
TL	TL-MT	2006	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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



Start Year • End Year • No Data

0

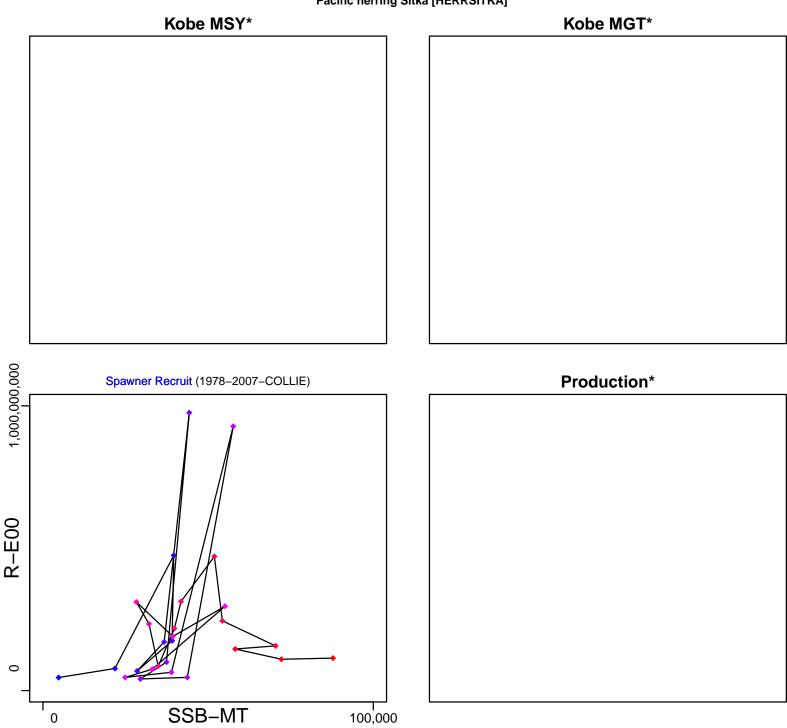




Metadata			
Scientific Name Clupea pallasii			
Current Assess ID ADFG-HERRSITKA-1978-2007-COLLIE			
Area Sitka			
Management Authority State of Alaska			
Assessor	Alaska Department of Fish and Game		
Asmts in RAM	2007		

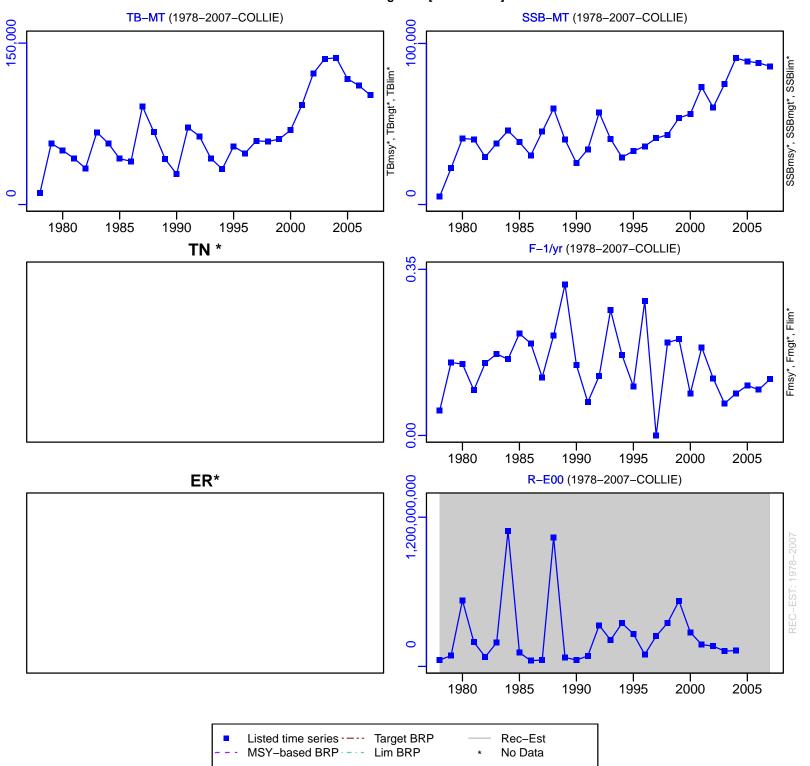
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2007	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

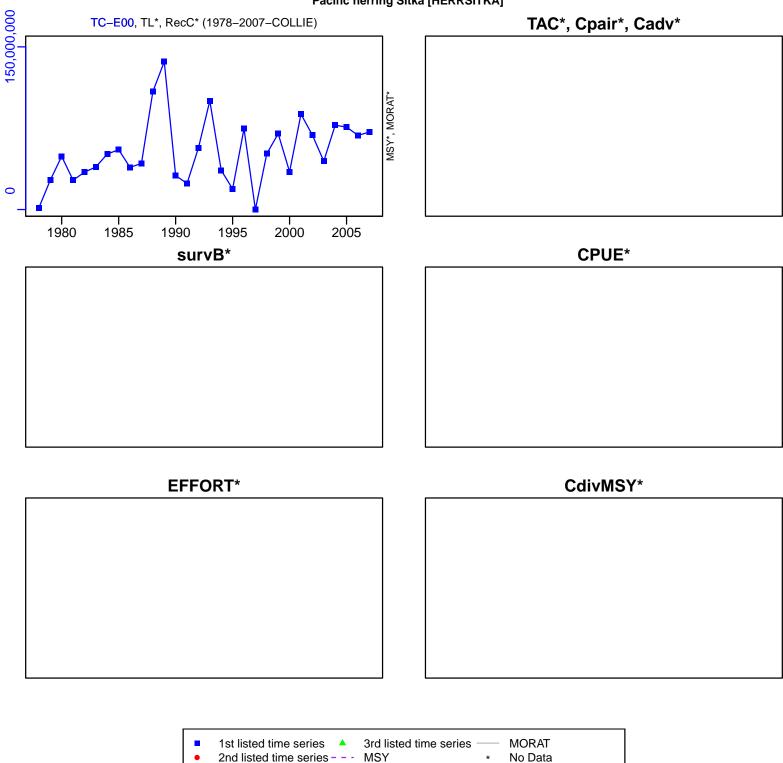
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	98,400	-	3+
SSB	SSB-MT	2007	82,900	Both	3+
TN	-	-	-	-	-
R	R-E00	2007	$1.14 \times 10^{8}$	-	3
F	F-1/yr	2007	0.118	Both	3+
ER	-	-	-	-	-
TC	TC-E00	2007	69,600,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy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



Start Year • End Year \* No Data

0



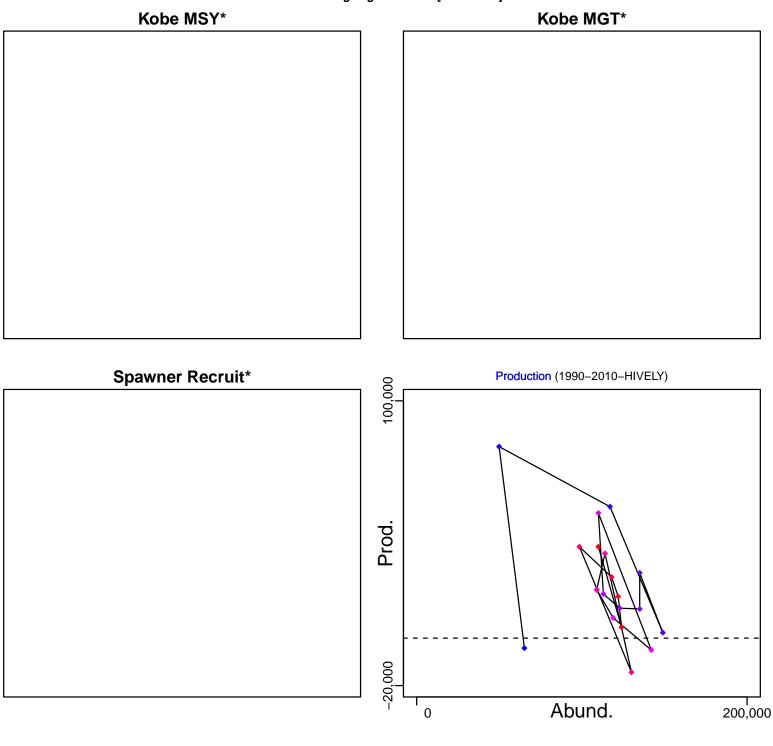


# Pacific herring Togiak District [HERRTOG]

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		

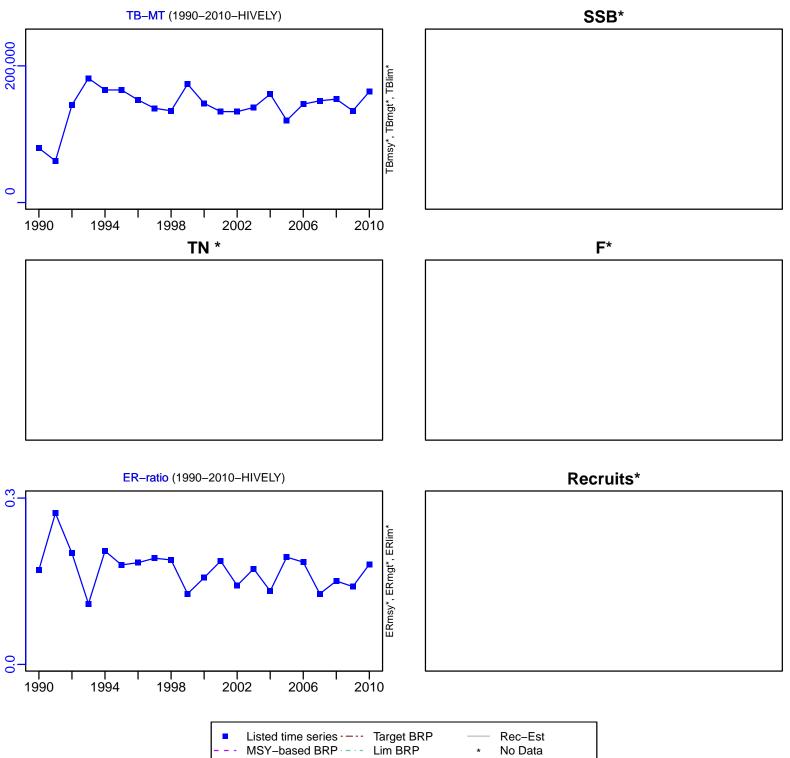
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		



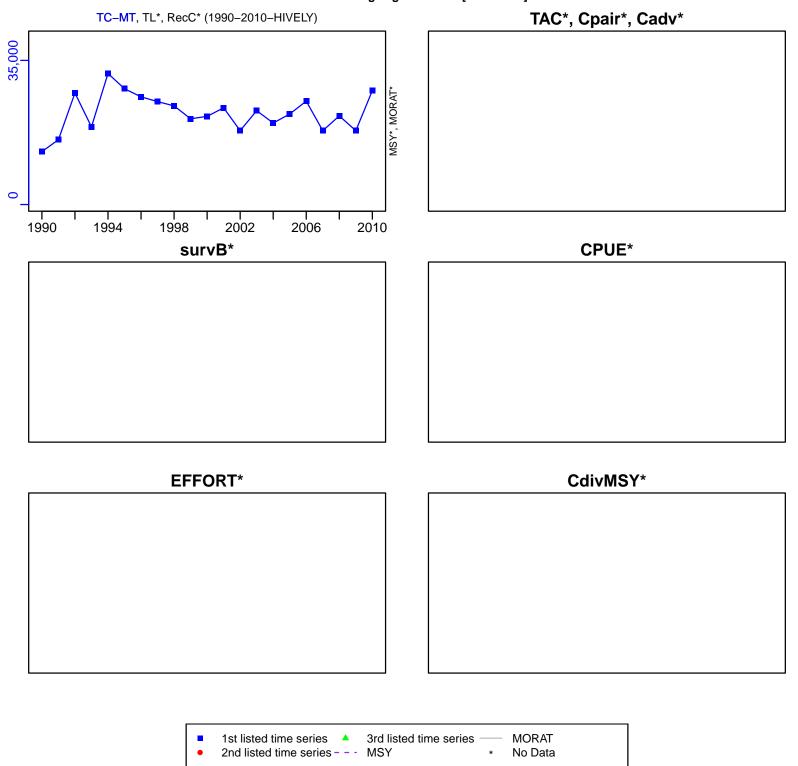
Start Year • End Year \* No Data

### Pacific herring Togiak District [HERRTOG]



No Data

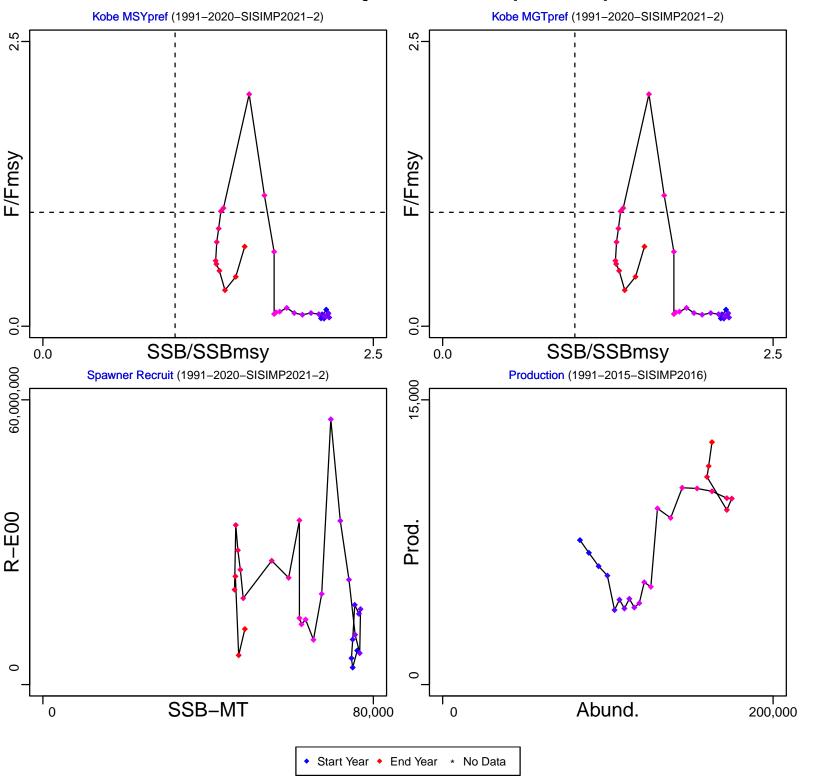
## Pacific herring Togiak District [HERRTOG]

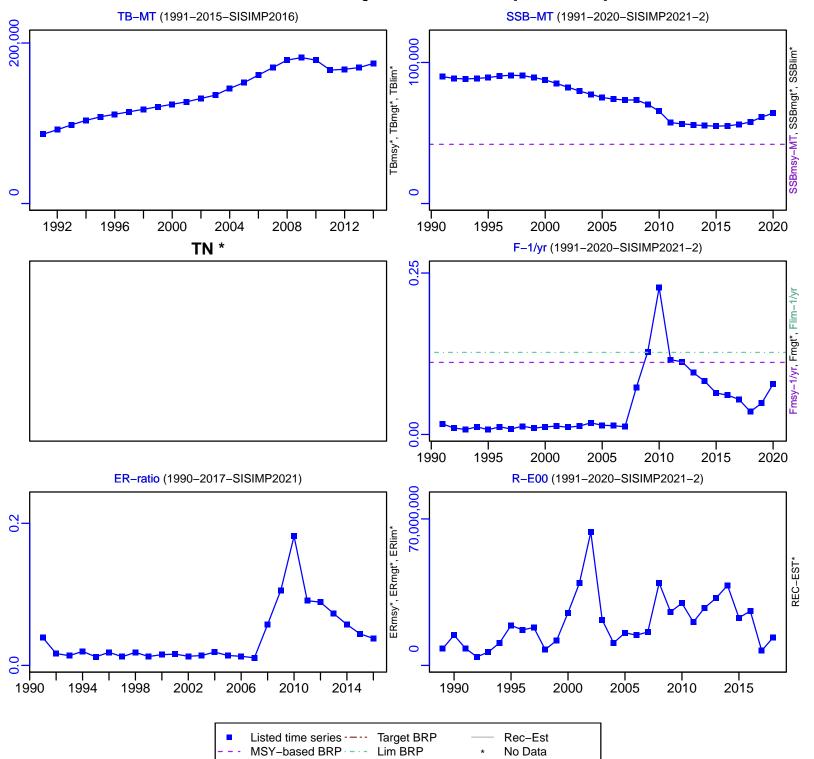


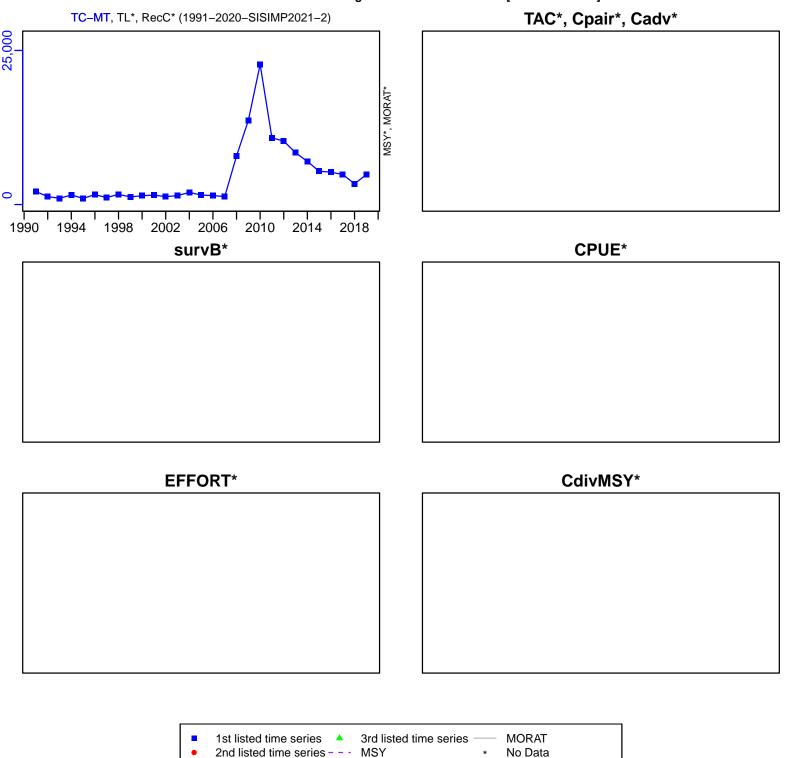
Metadata				
Scientific Name	Atheresthes evermanni			
Current Assess ID	AFSC-KMFLOUNBSAI-1991-2020-SISIMP2021-2			
Area Bering Sea and Aleutian Islands				
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Alaska Fisheries Science Center			
Asmts in RAM	2016,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

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

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





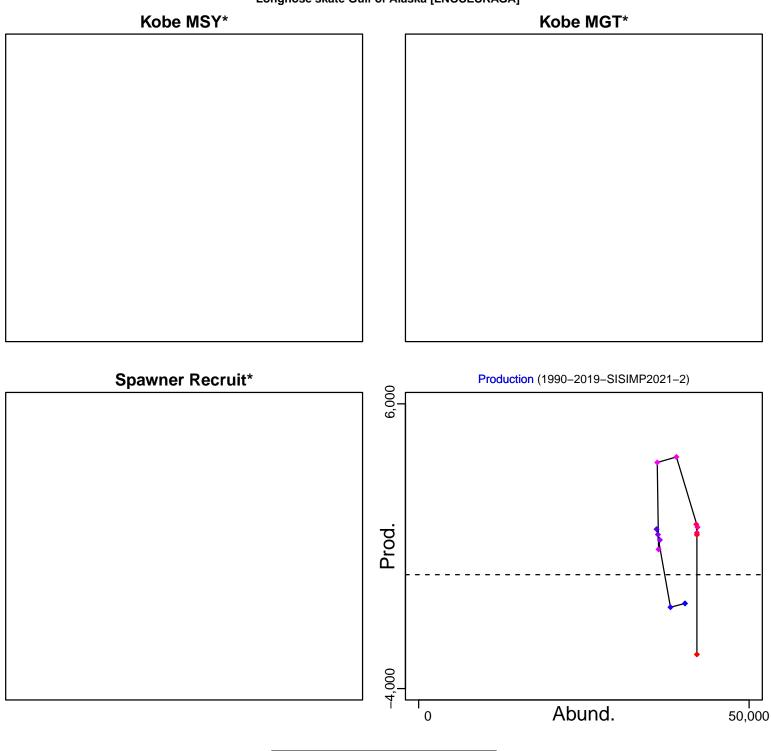


# Longnose skate Gulf of Alaska [LNOSESKAGA]

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

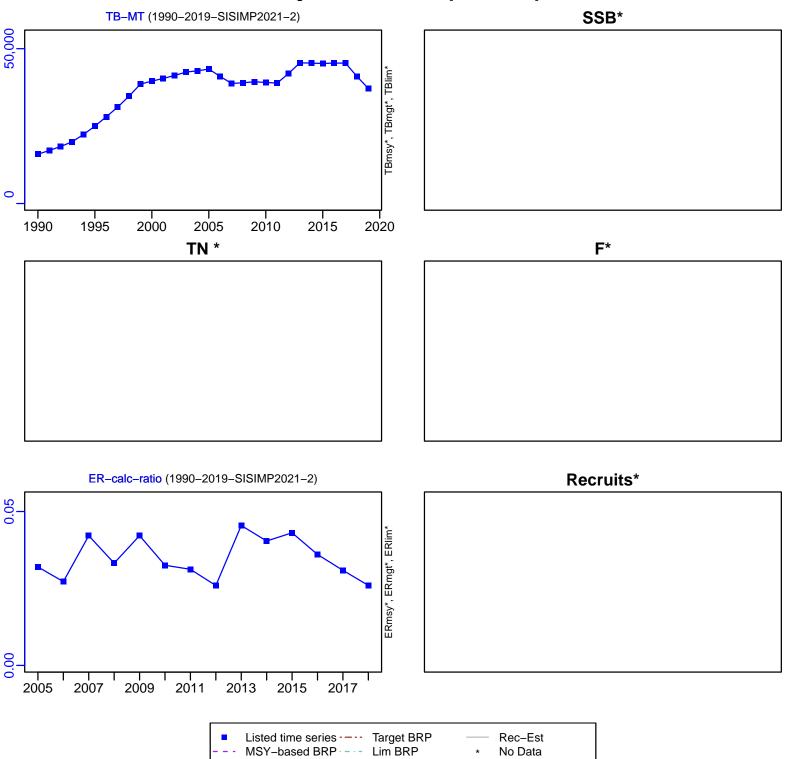
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	34,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2019	0.024	-	-
TC	TC-MT	2019	914		
TL	-	-	-		
TB/TBmsy	-	-	-	]	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



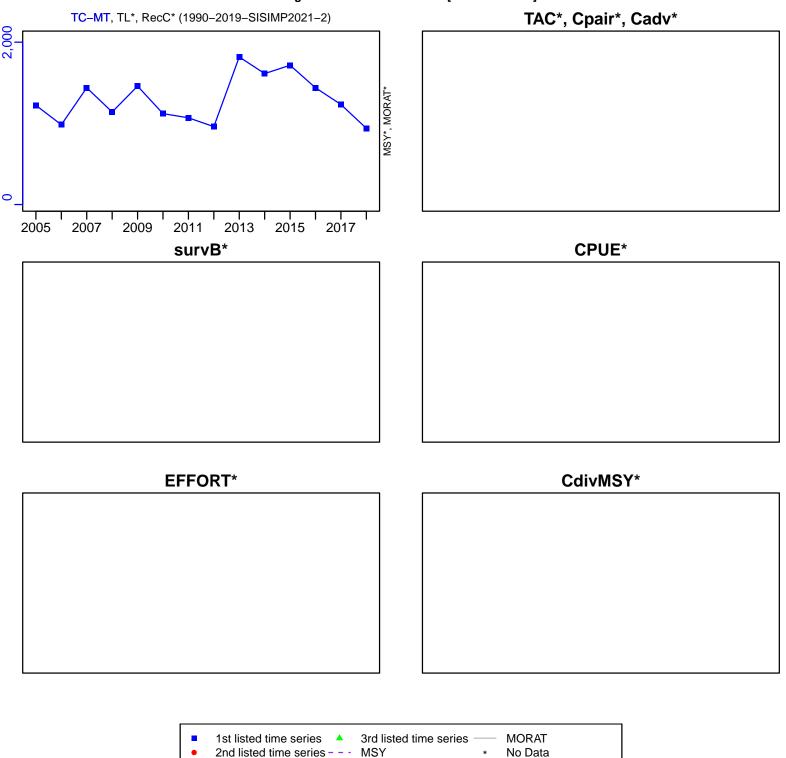
Start Year ◆ End Year \* No Data

#### Longnose skate Gulf of Alaska [LNOSESKAGA]



No Data

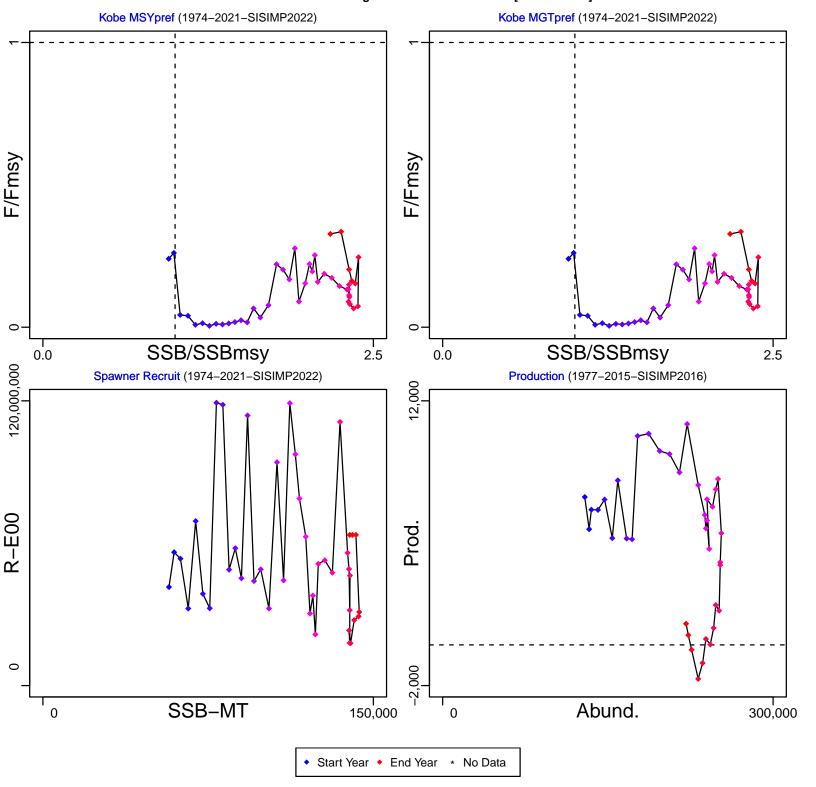
#### Longnose skate Gulf of Alaska [LNOSESKAGA]

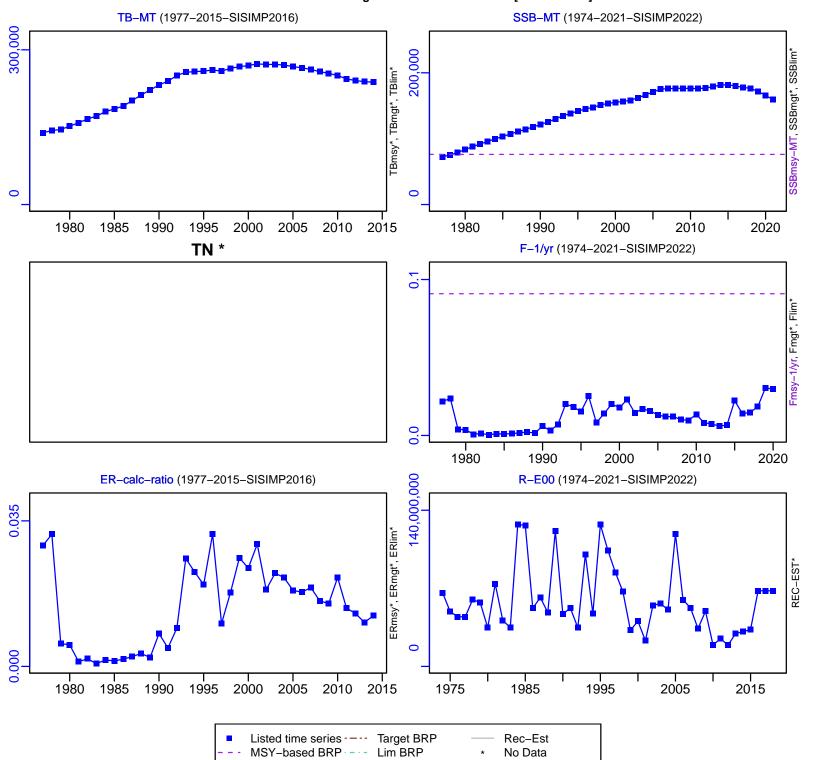


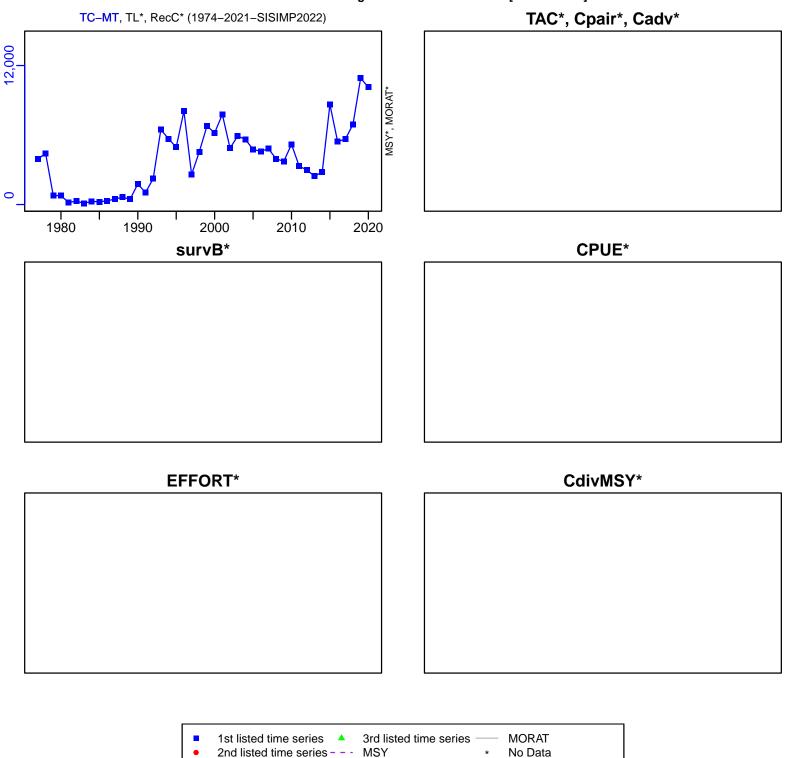
Metadata				
Scientific Name	Sebastes polyspinis			
Current Assess ID	AFSC-NROCKBSAI-1974-2021-SISIMP2022			
Area Bering Sea and Aleutian Islands				
Management Authority	National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center				
Asmts in RAM	2011, 2016,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

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

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



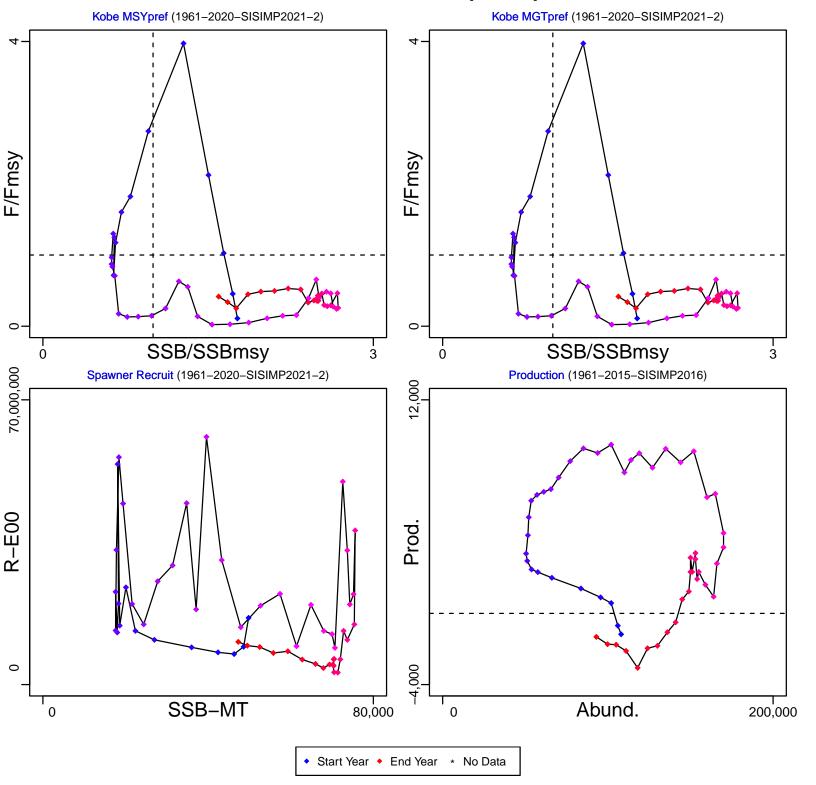


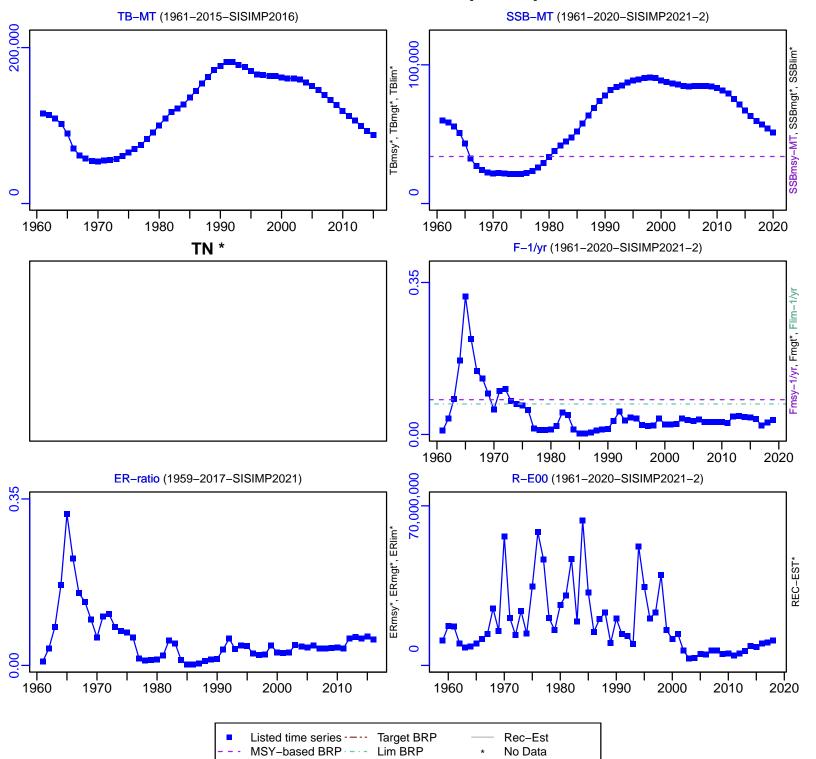


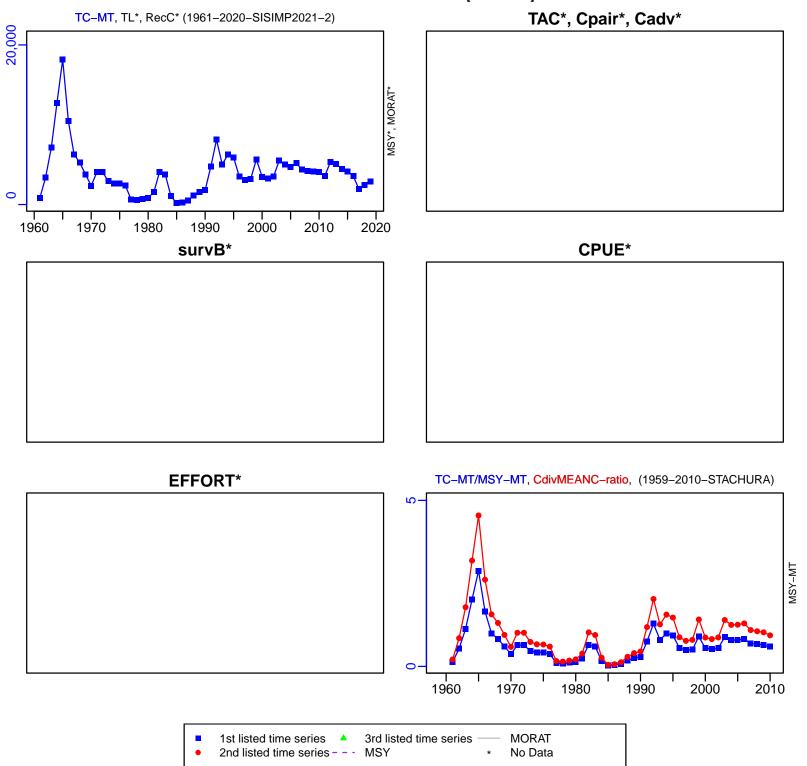
Metadata				
Scientific Name	Sebastes polyspinis			
Current Assess ID	AFSC-NROCKGA-1961-2020-SISIMP2021-2			
Area	Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management			
Assessor	Alaska Fisheries Science Center			
Asmts in RAM	2010, 2016, 2017, 2018, 2015,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

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

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







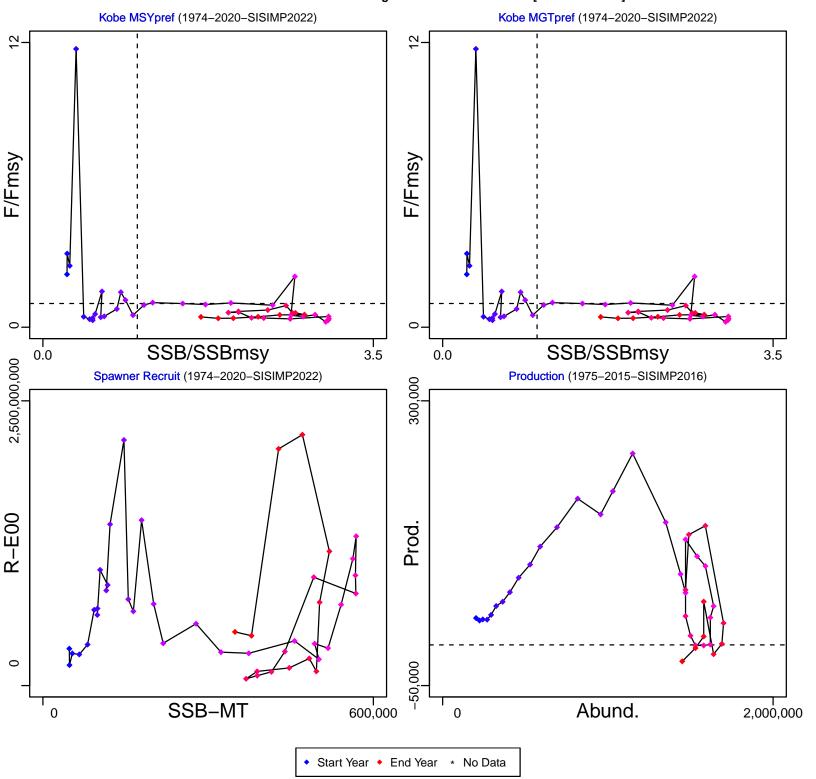
# Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

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

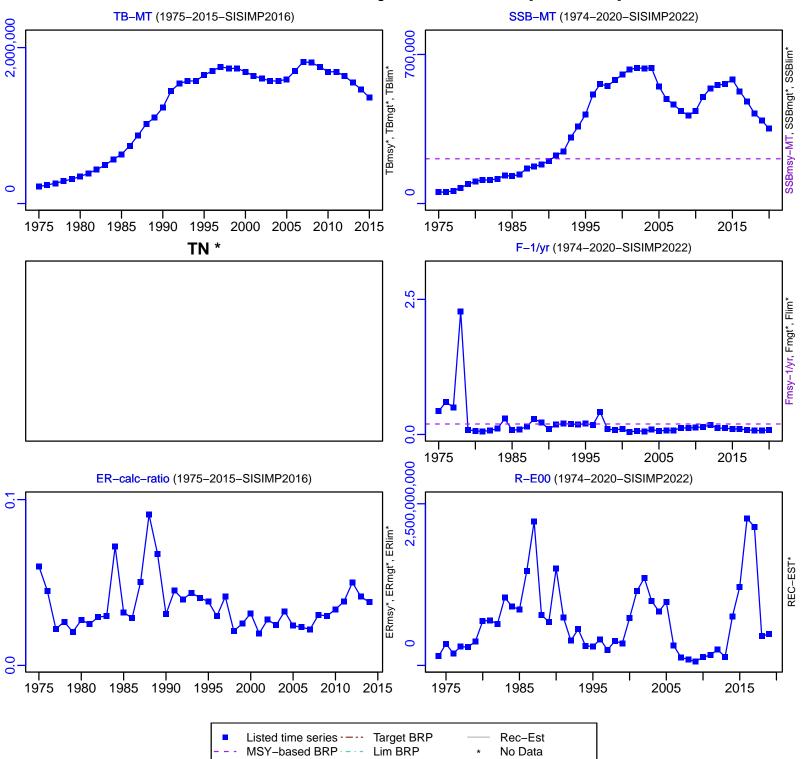
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2020	187,790		
Fmsy	Fmsy-1/yr	2020	0.157		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2012	259,310		
М	M-1/yr	2012	0.18		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	Flim-1/yr	2020	0.278		
ERlim	-	-	-		

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

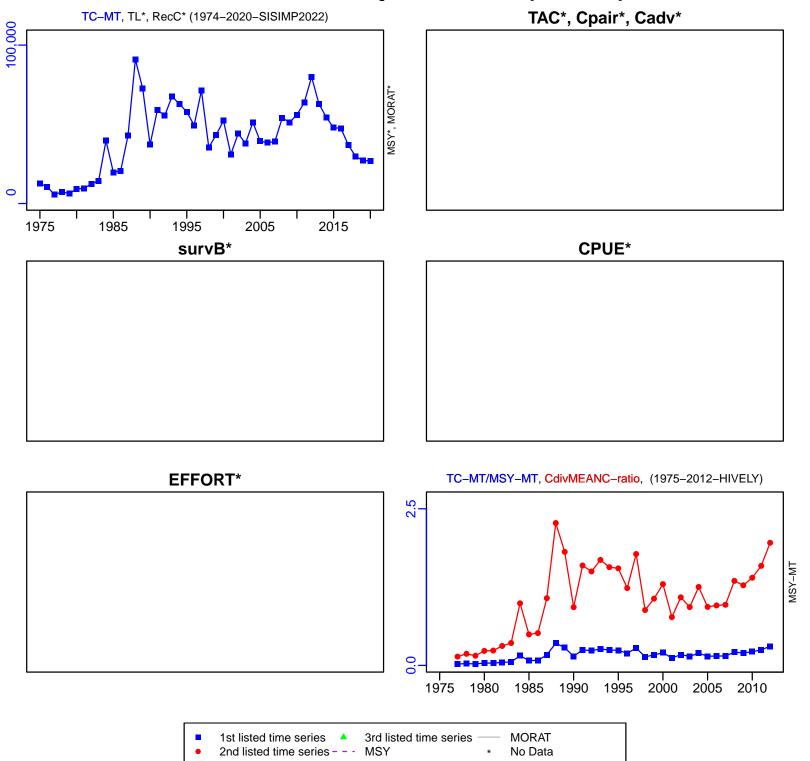
#### Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]



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



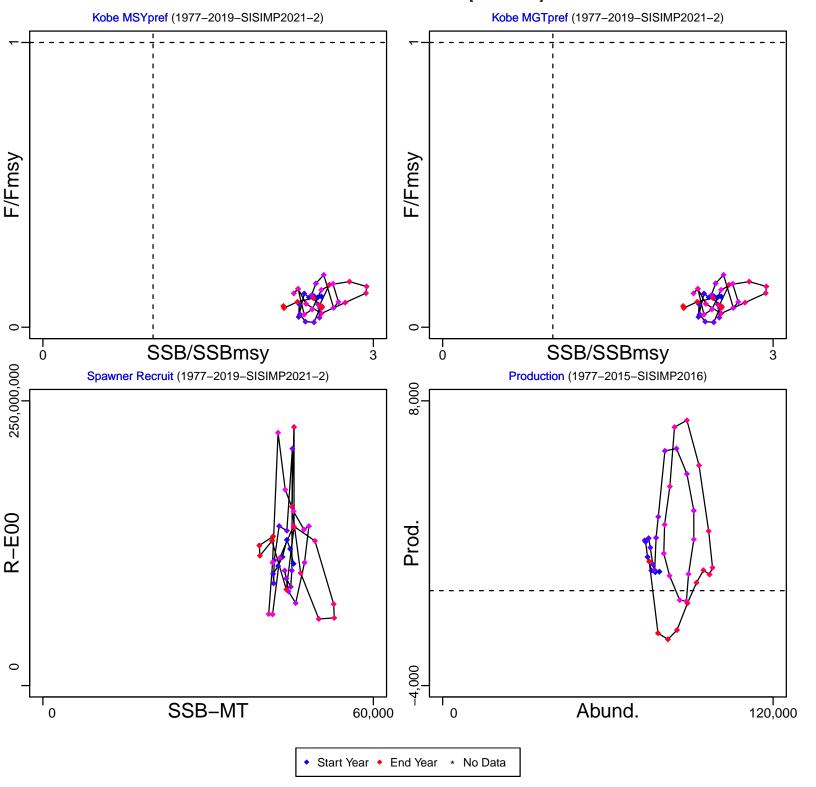
## Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

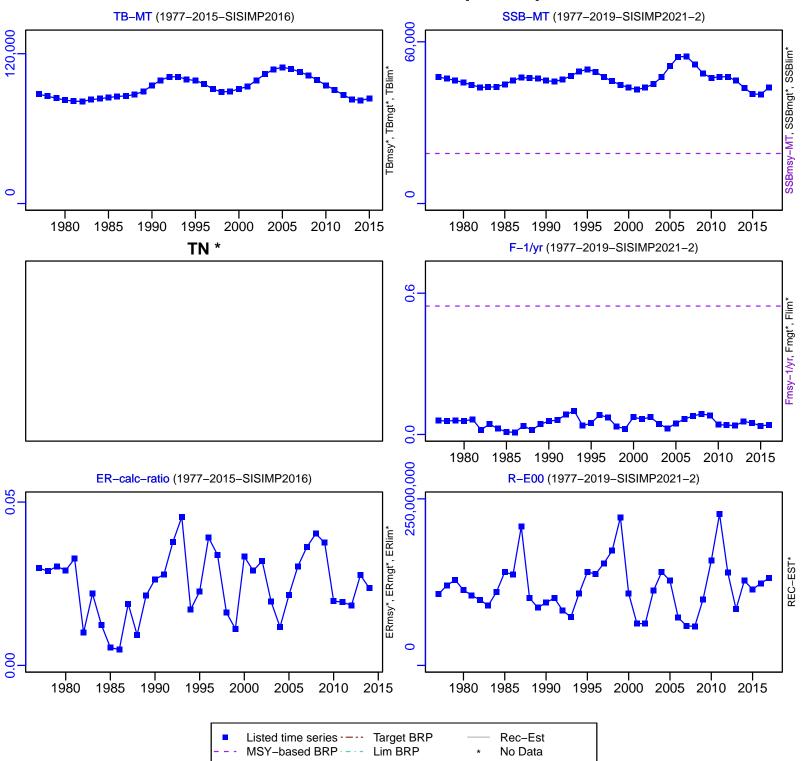


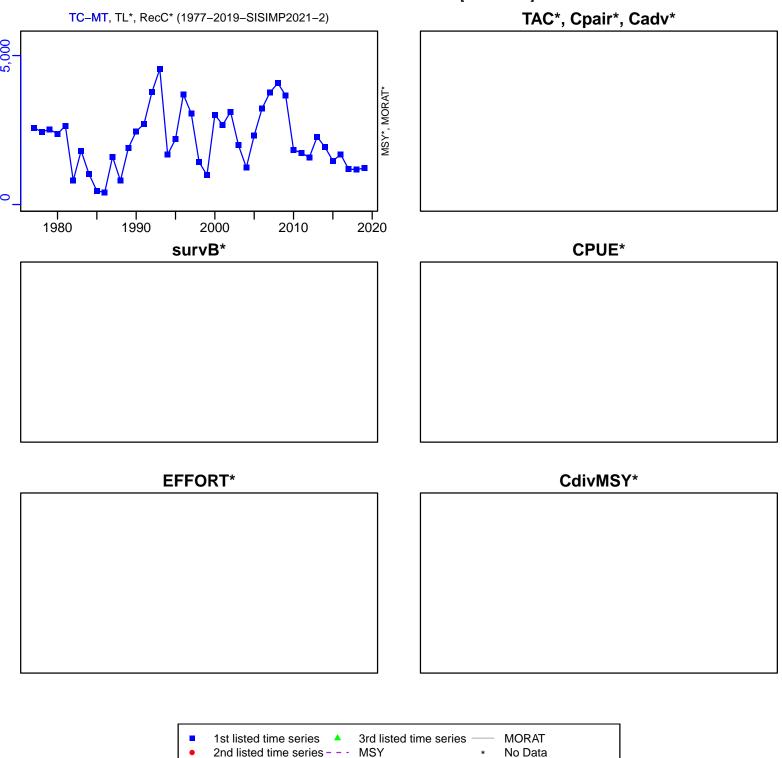
Metadata			
Scientific Name	Lepidopsetta polyxystra		
Current Assess ID	AFSC-NRSOLEGA-1977-2019-SISIMP2021-2		
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2015, 2016, 2017, 2018, 2018,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

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

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





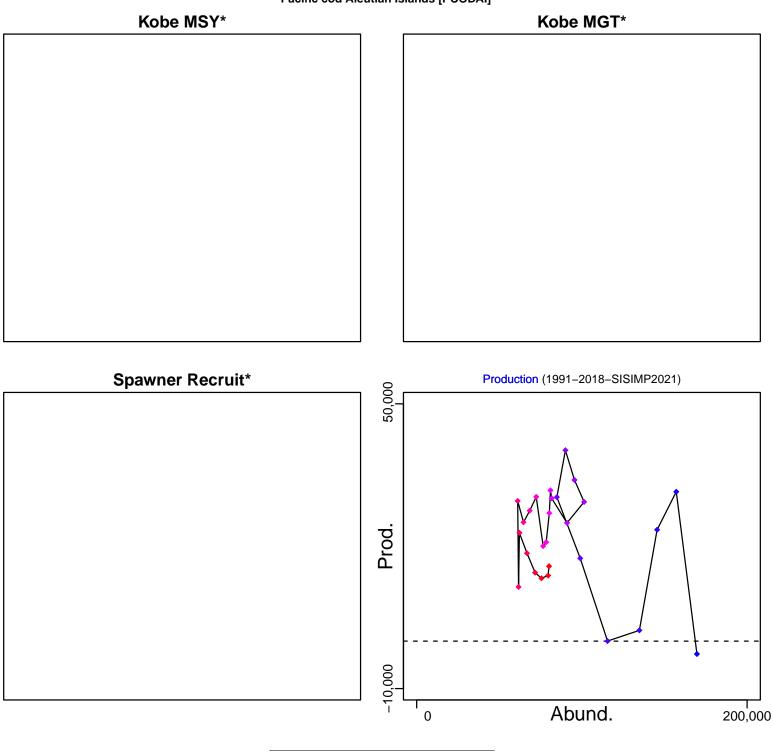


# Pacific cod Aleutian Islands [PCODAI]

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

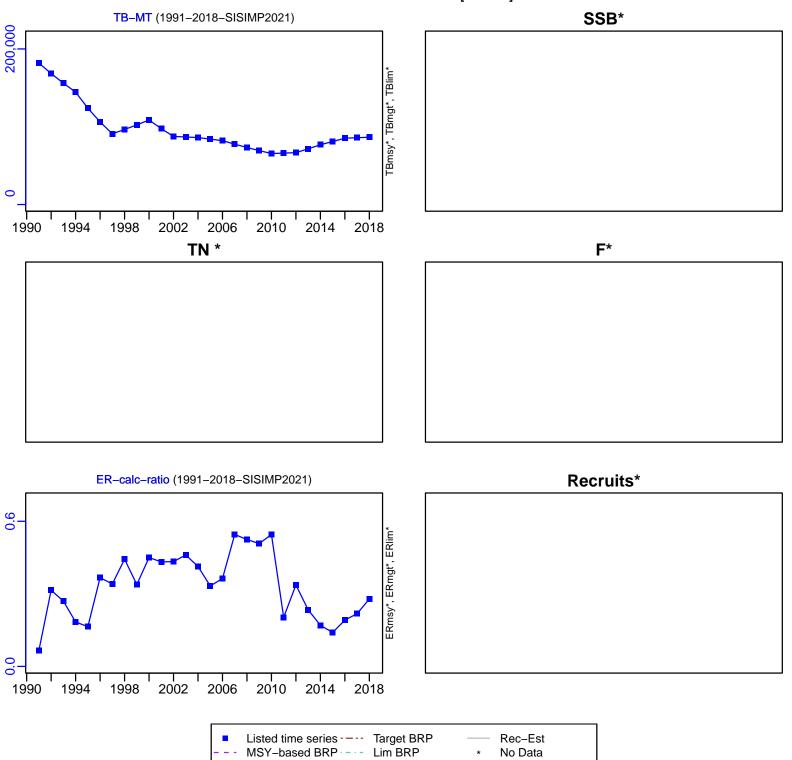
F	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

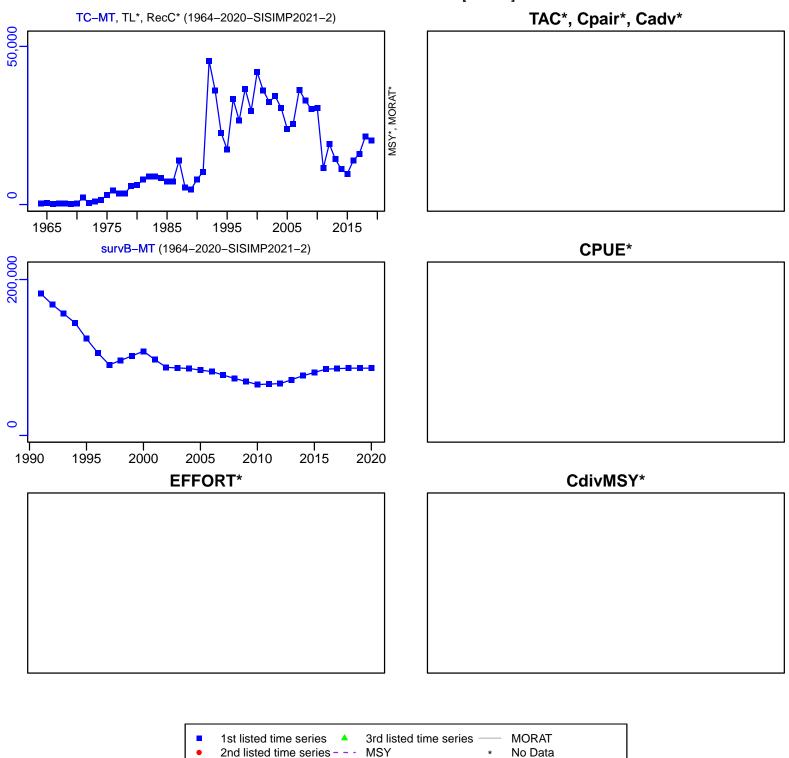
	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2018	80,696	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2018	0.242	-	-	
TC	TC-MT	2020	19,200			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt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



Start Year → End Year → No Data

### Pacific cod Aleutian Islands [PCODAI]



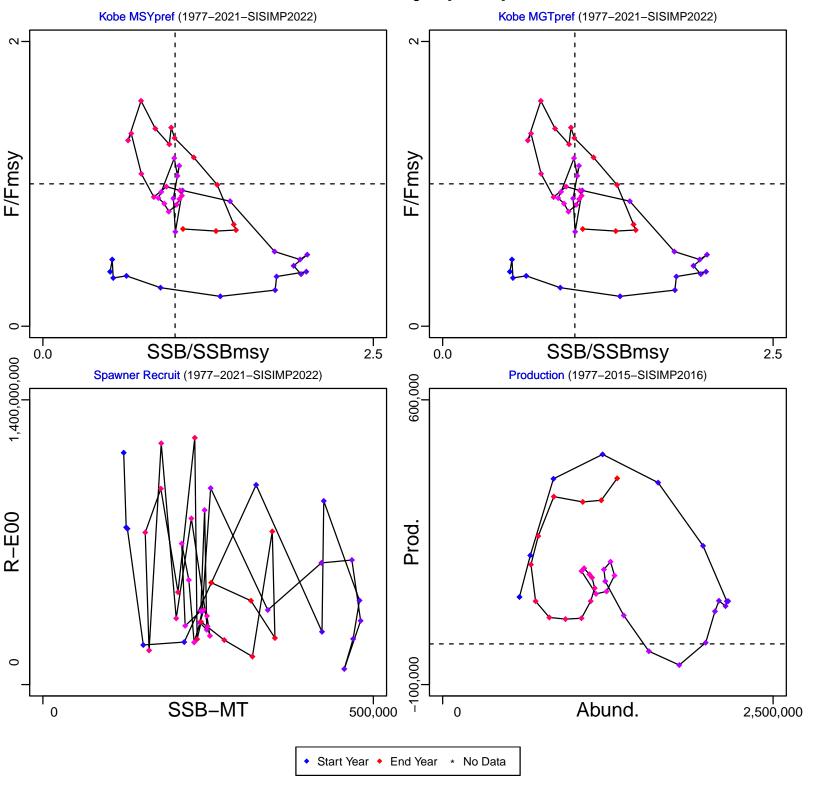


# Pacific cod Bering Sea [PCODBS]

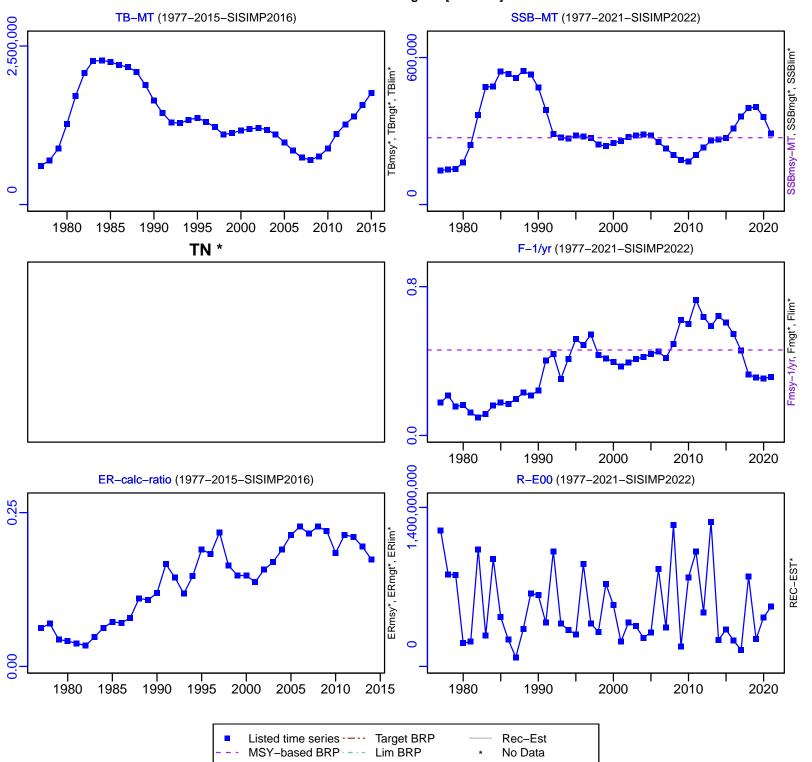
Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID	AFSC-PCODBS-1977-2021-SISIMP2022		
Area Bering Sea			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021		

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

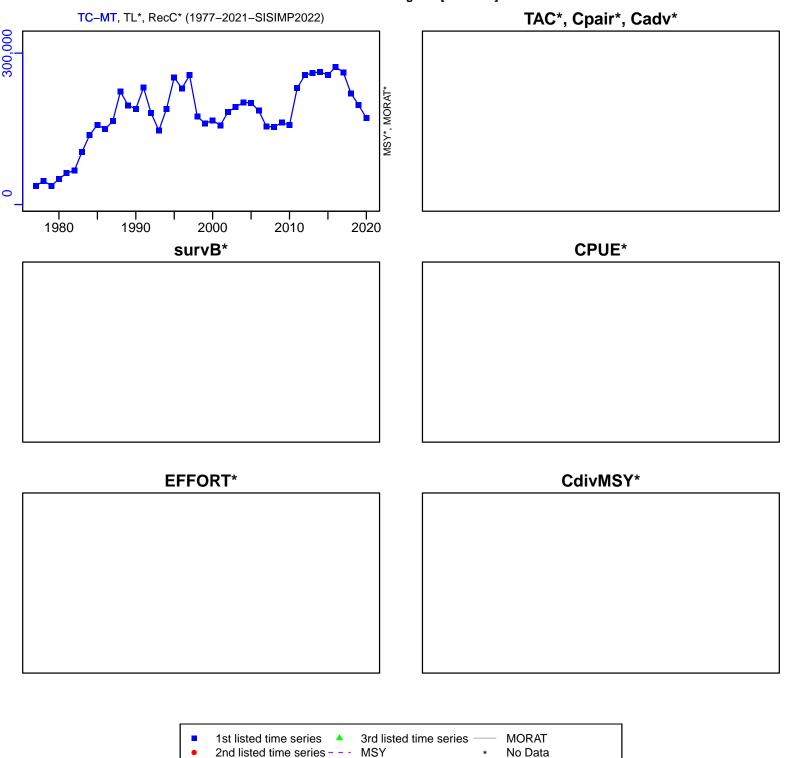
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1,670,000	-	0+
SSB	SSB-MT	2021	254,718	Females	-
TN	-	-	-	-	-
R	R-E00	2021	501,019,000	-	0
F	F-1/yr	2021	0.28	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2021	155,639		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.06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



#### Pacific cod Bering Sea [PCODBS]



## Pacific cod Bering Sea [PCODBS]

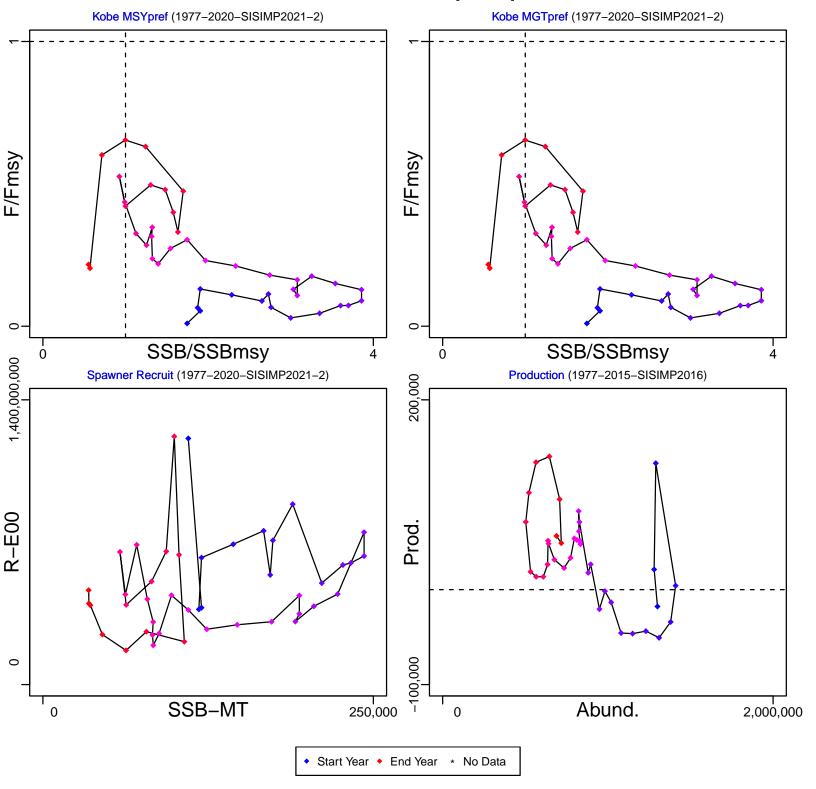


# Pacific cod Gulf of Alaska [PCODGA]

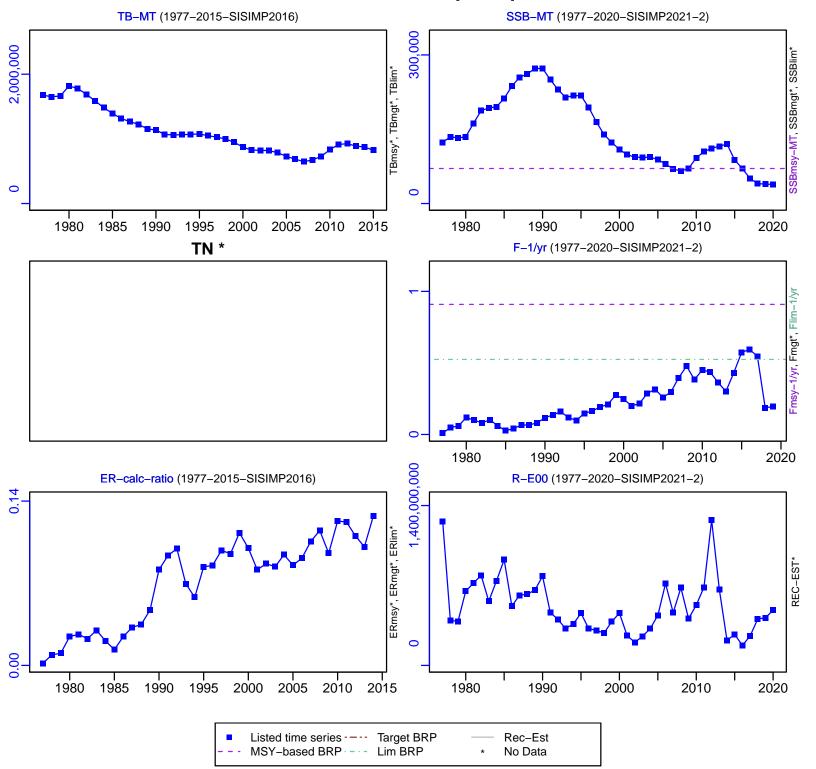
Metadata			
Scientific Name	Gadus macrocephalus		
Current Assess ID AFSC-PCODGA-1977-2020-SISIMP2021-2			
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019,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

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

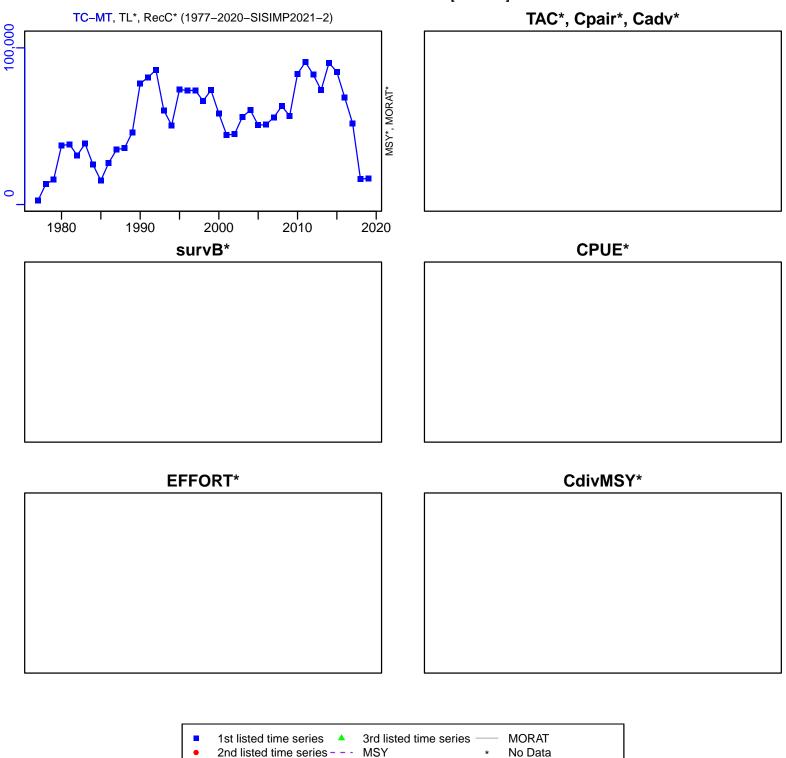
	Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	640,000	-	3+	
SSB	SSB-MT	2020	34,600	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	$4.64 \times 10^{8}$	-	0	
F	F-1/yr	2020	0.169	-	-	
ER	ER-calc-ratio	2015	0.125	-	-	
TC	TC-MT	2020	15,700		,,	
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.549			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.217			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.614			
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.218			
ER/ERmgt	-	-	-			



### Pacific cod Gulf of Alaska [PCODGA]



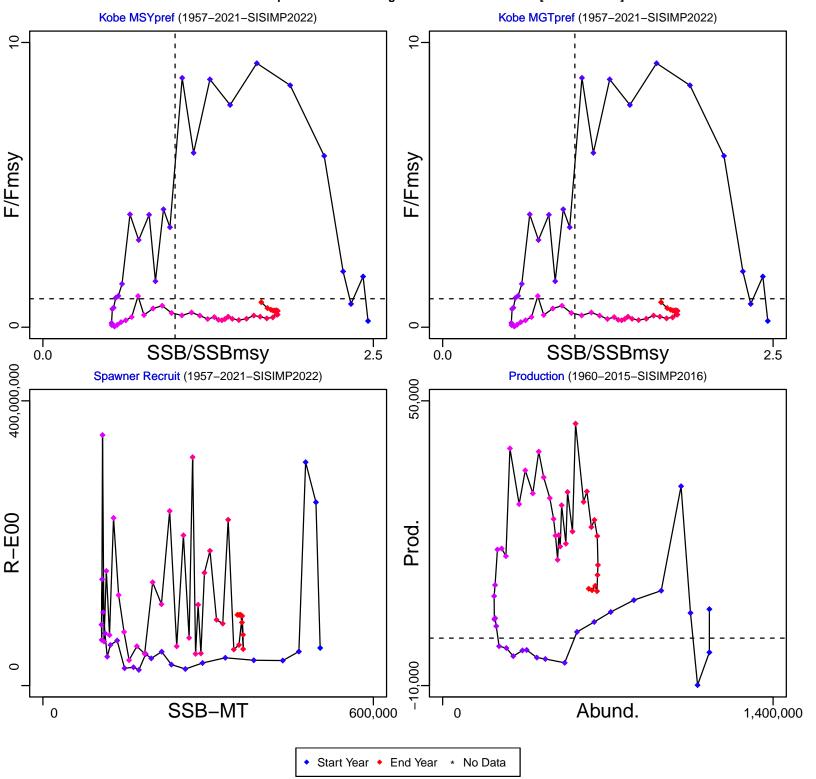
## Pacific cod Gulf of Alaska [PCODGA]

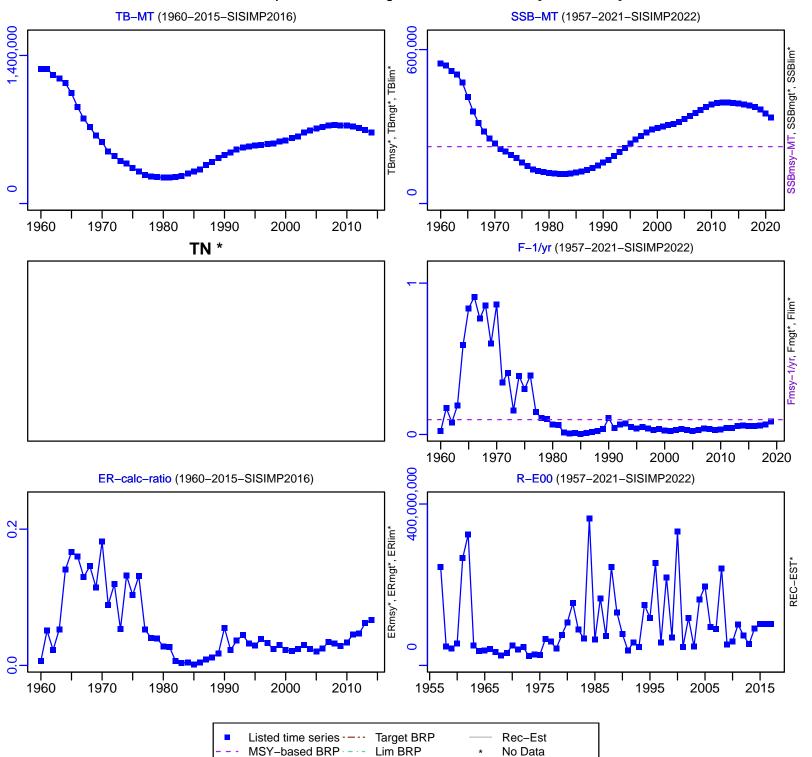


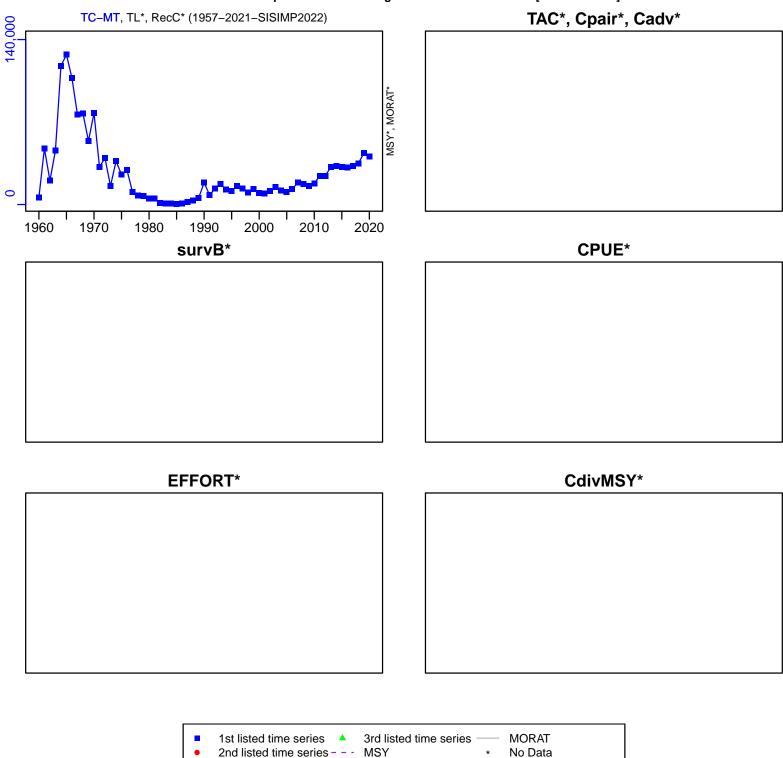
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID AFSC-PERCHEBSAI-1957-2021-SISIMP2022			
Area Eastern Bering Sea and Aleutian Islands			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2016, 2017,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

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

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



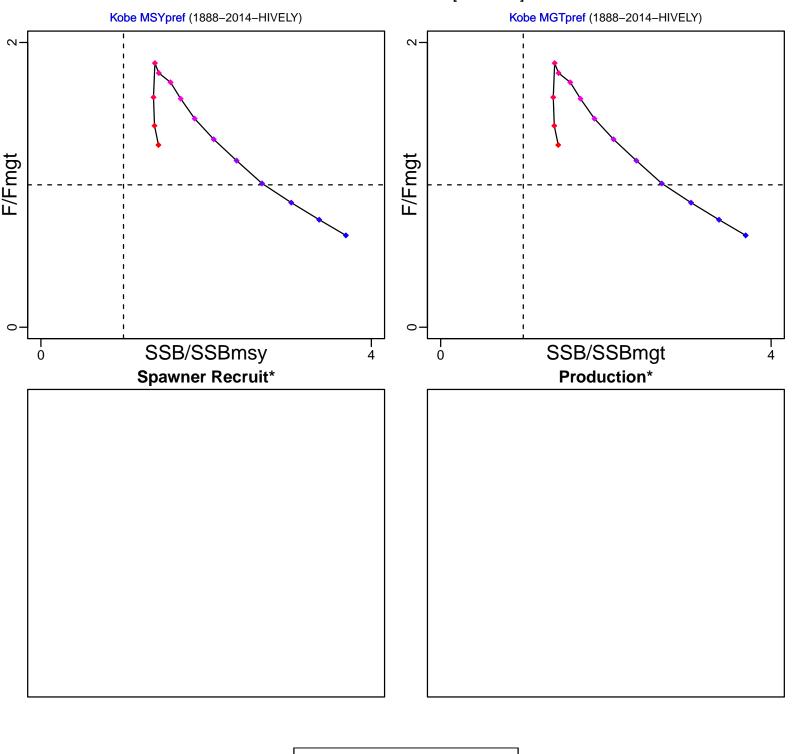




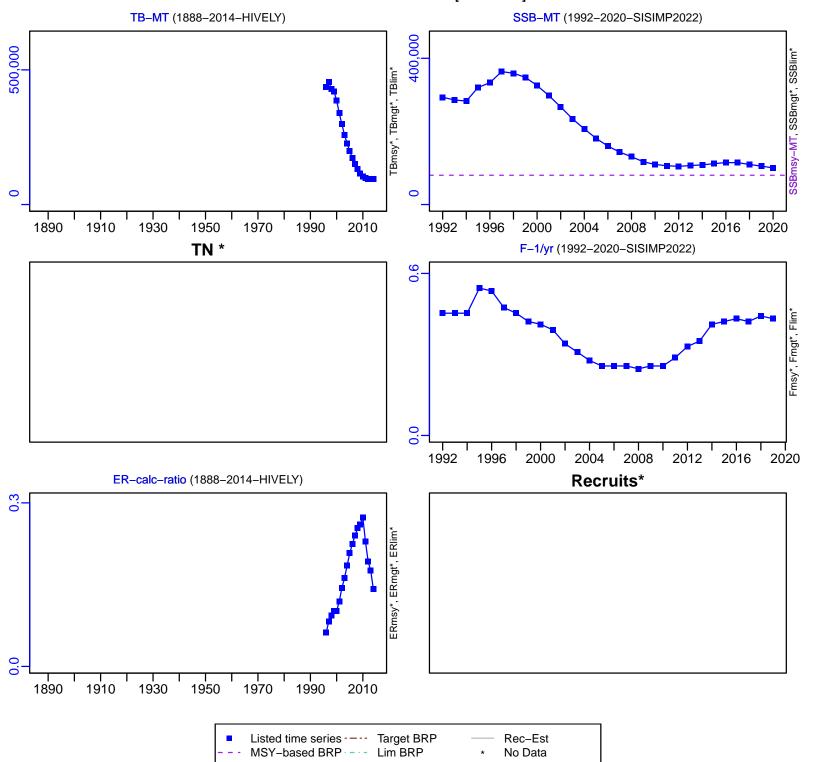
Metadata			
Scientific Name	Hippoglossus stenolepis		
Current Assess ID	IPHC-PHALNPAC-1992-2020-SISIMP2022		
Area North Pacific			
Management Authority	International Pacific Halibut Commission		
Assessor	International Pacific Halibut Commission		
Asmts in RAM	2014, 2019, 2020		

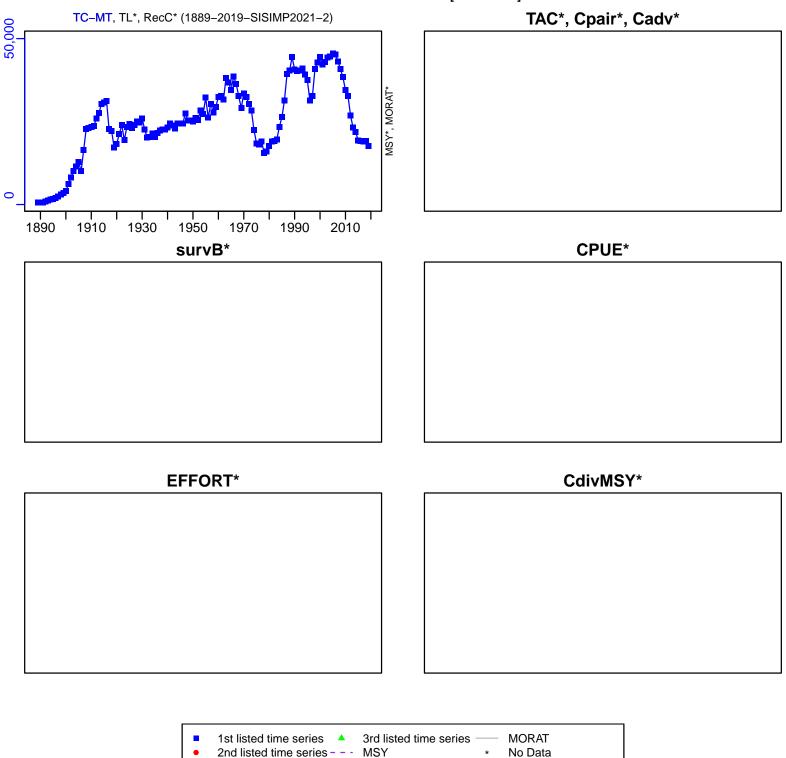
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2020	70,261	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	65,004	
Fmgt	Fmgt-1/yr	2014	0.2	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	46,720	
Flim	-	-	-	
ERlim	-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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	77,000	-	-
SSB	SSB-MT	2020	87,997	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2020	0.42	-	-
ER	ER-calc-ratio	2014	0.139	-	-
TC	TC-MT	2019	17,554		,,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.252		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.455		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.28		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

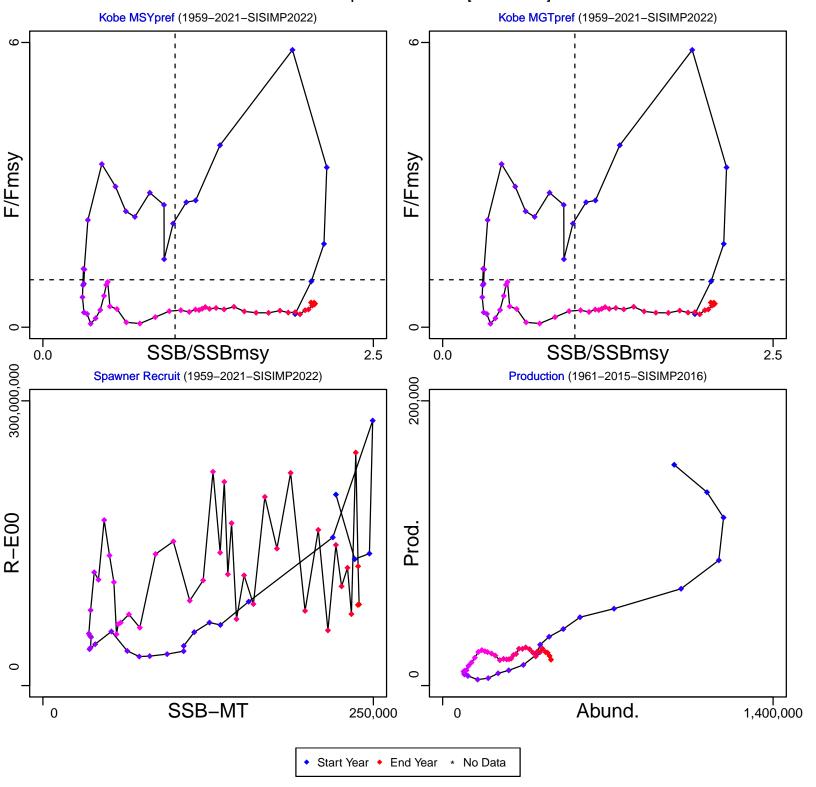


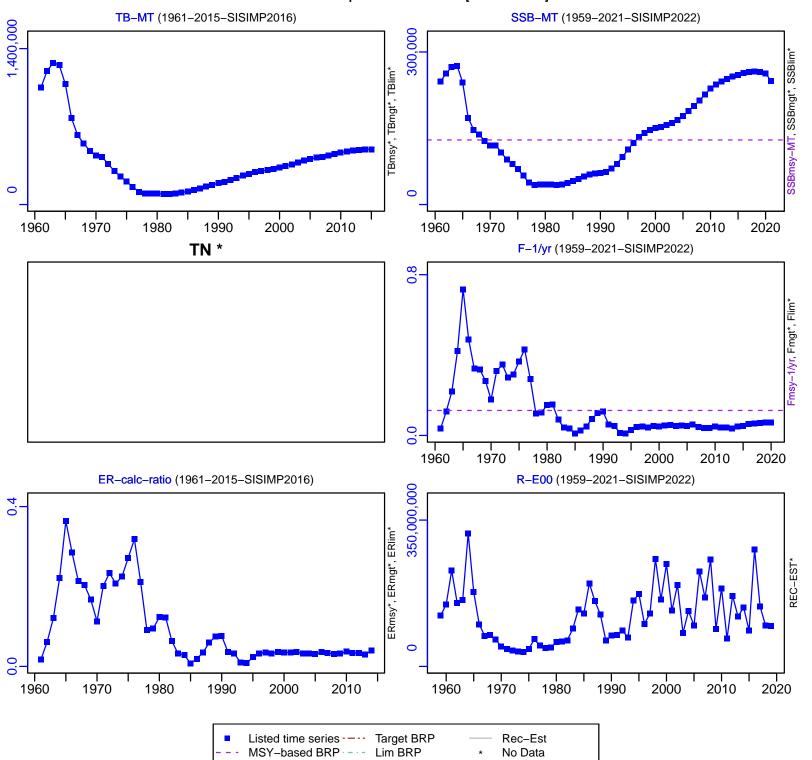


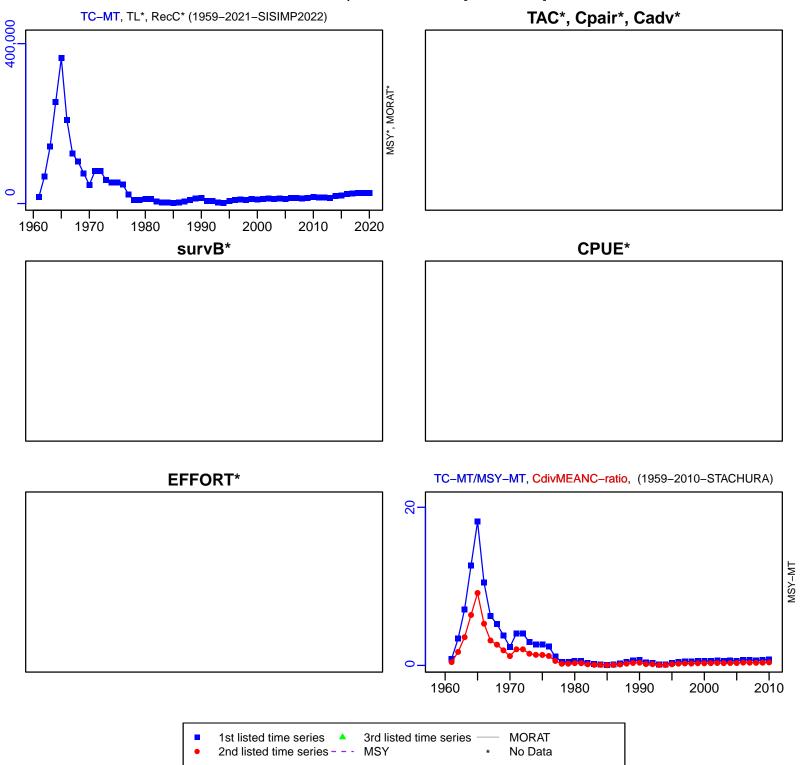
Metadata			
Scientific Name	Sebastes alutus		
Current Assess ID AFSC-POPERCHGA-1959-2021-SISIMP2022			
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2016, 2017, 2018, 2021, 2015, 2019,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

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

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



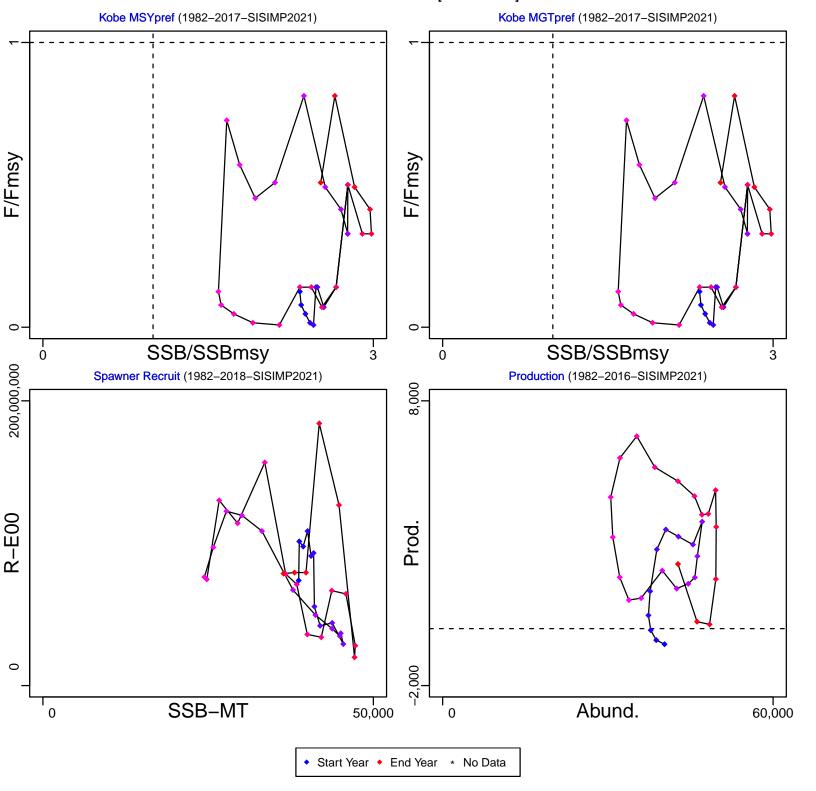


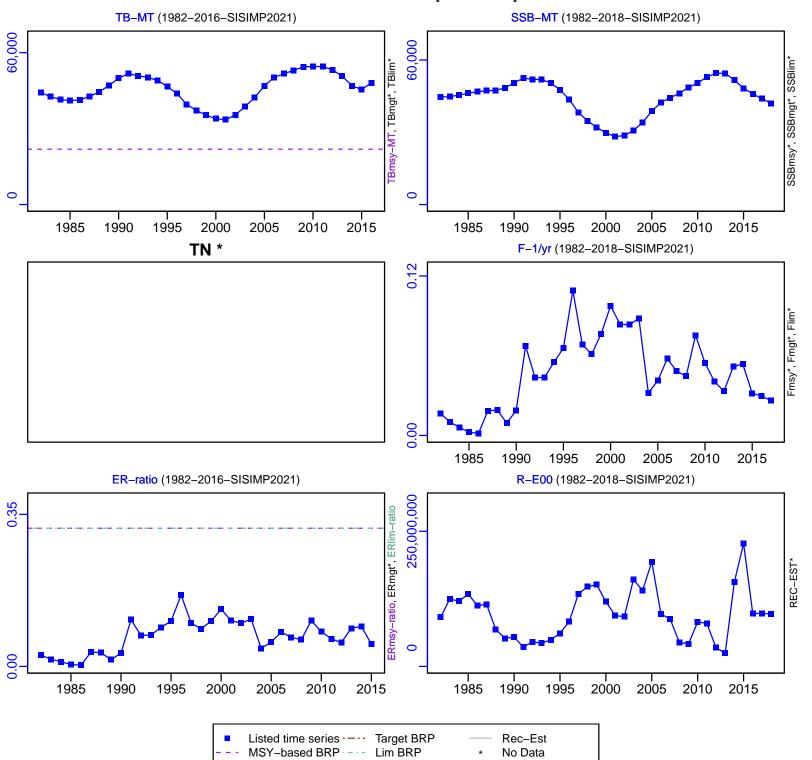


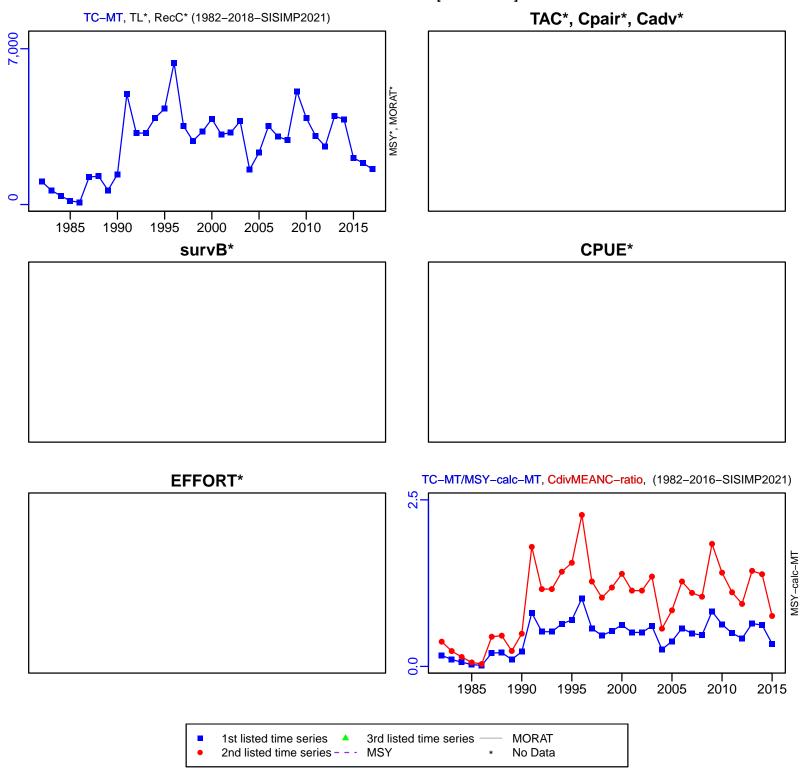
Metadata			
Scientific Name	Glyptocephalus zachirus		
Current Assess ID AFSC-REXSOLEGA-1982-2018-SISIMP2021			
Area Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2011, 2014, 2016, 2017, 2018		

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	43,731	-	-
SSB	SSB-MT	2018	36,411	-	-
TN	-	-	-	-	-
R	R-E00	2018	78,656,292	-	0
F	F-1/yr	2018	0.025	-	-
ER	ER-ratio	2016	0.047	-	-
TC	TC-MT	2018	1483		,,
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2016	2.198		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.408		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.508		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.162		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.767		
ER/ERmgt	-	-	-		







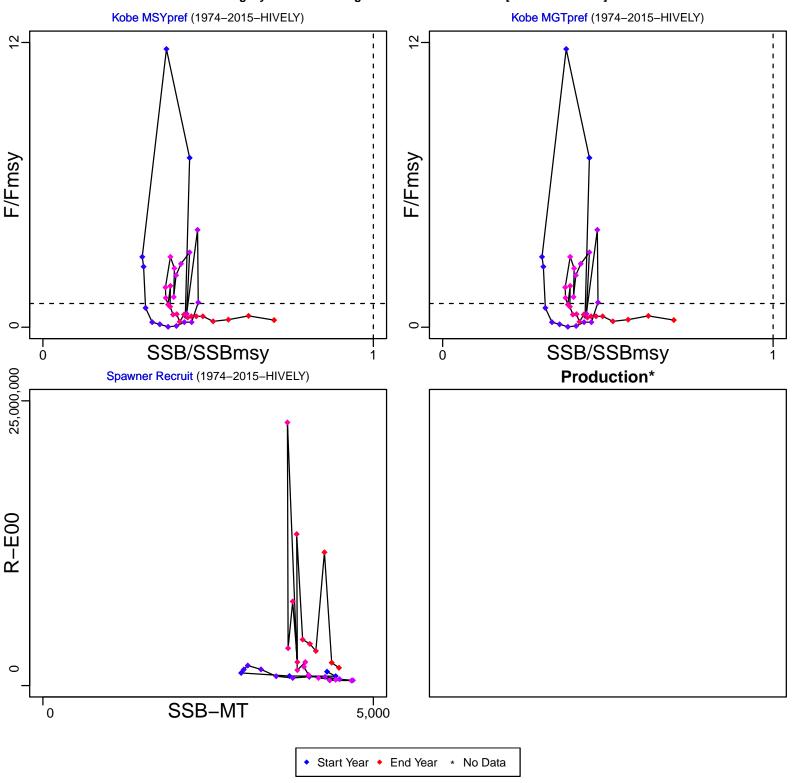
# Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

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			

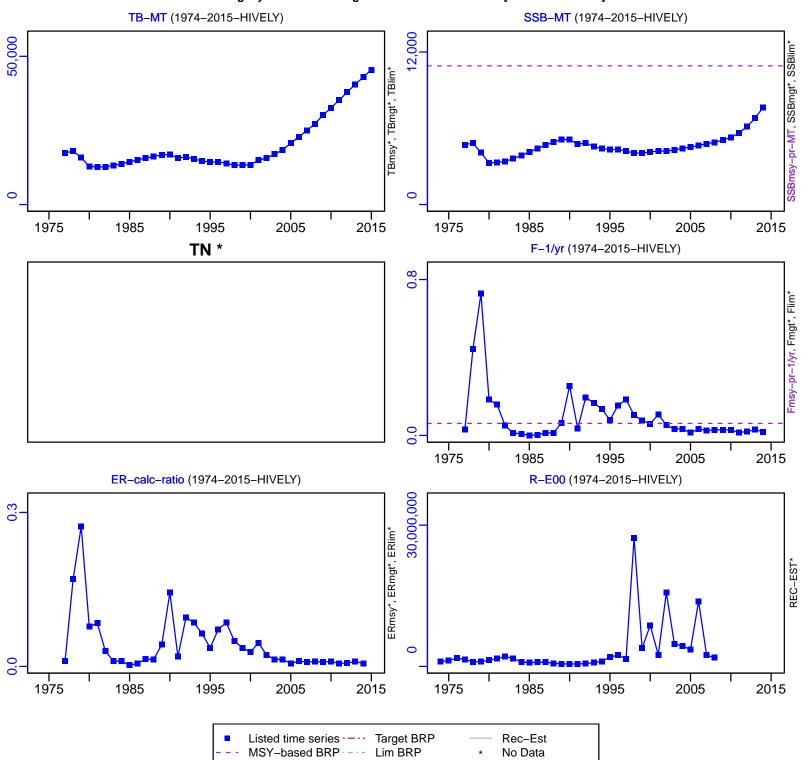
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-pr-MT	2015	9977			
Fmsy	Fmsy-pr-1/yr	2015	0.058			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	M-1/yr	2015	0.03			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim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

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	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	-	-	-				

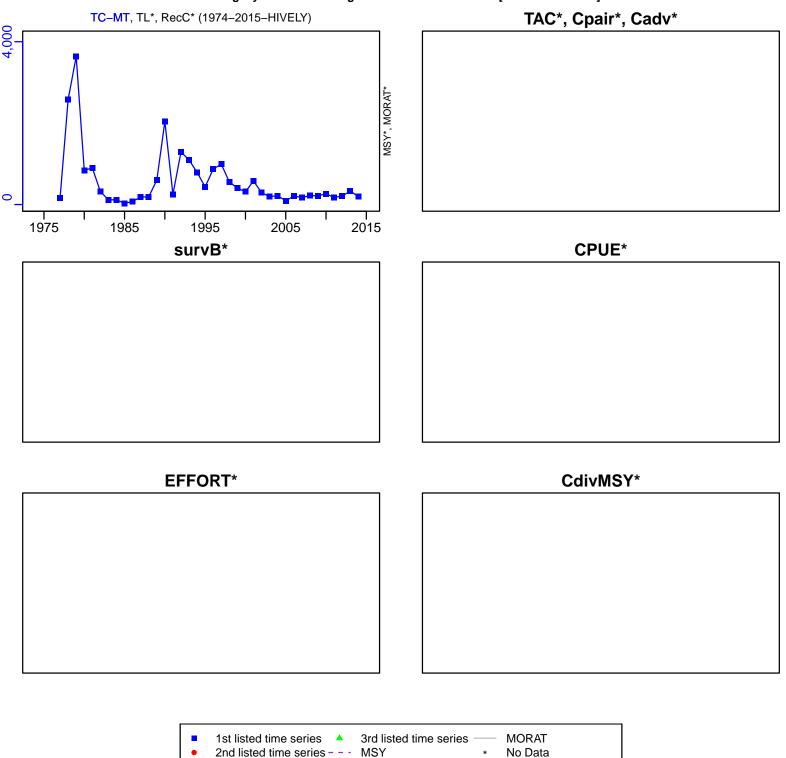
## Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]



#### Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]



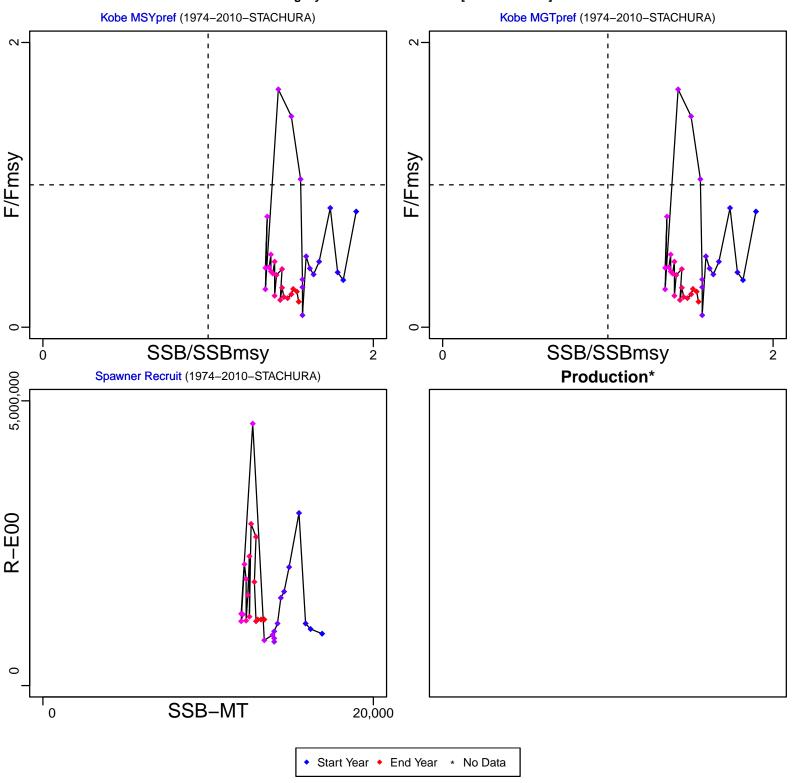
### Rougheye rockfish Bering Sea and Aleutian Islands [REYEROCKBSAI]

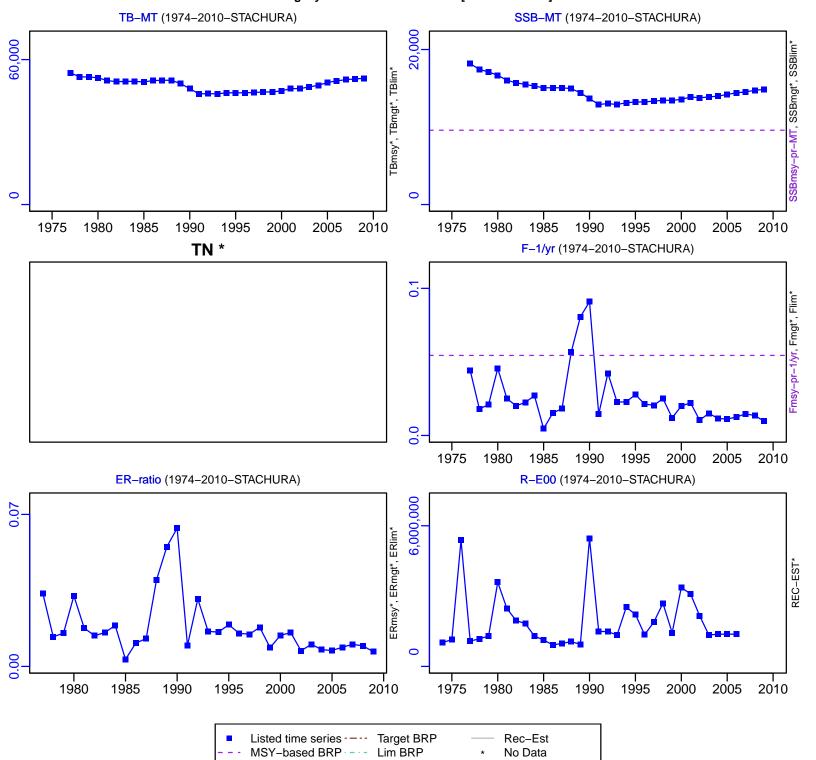


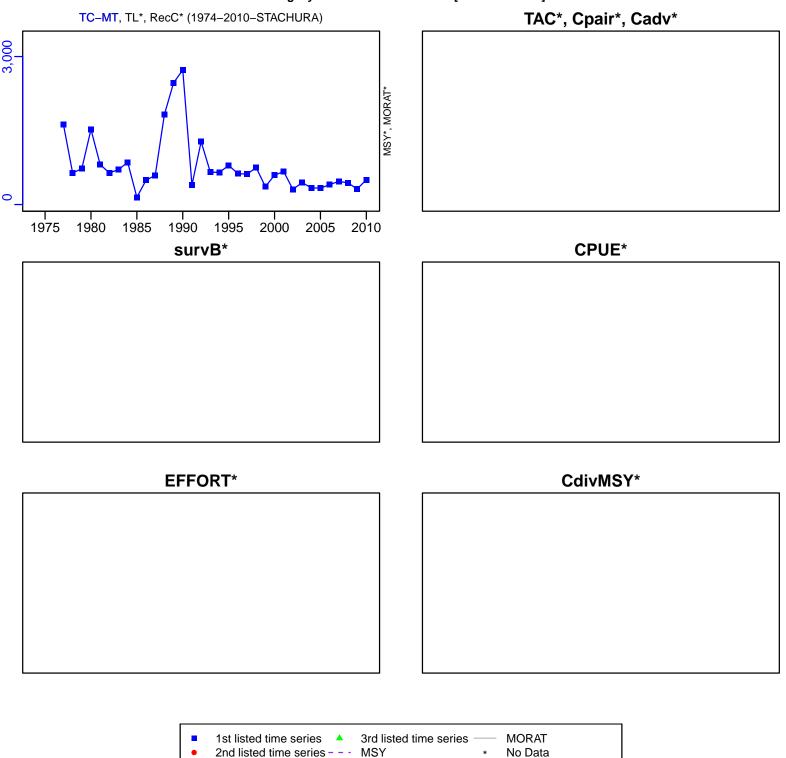
Metadata		
Scientific Name	Sebastes aleutianus	
Current Assess ID	AFSC-REYEROCKGA-1974-2010-STACHURA	
Area Gulf of Alaska		
Management Authority National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2010	

Reference Points				
Туре	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	-	-	-	
М	M-1/yr	2010	0.034	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	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	-	-	-		







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

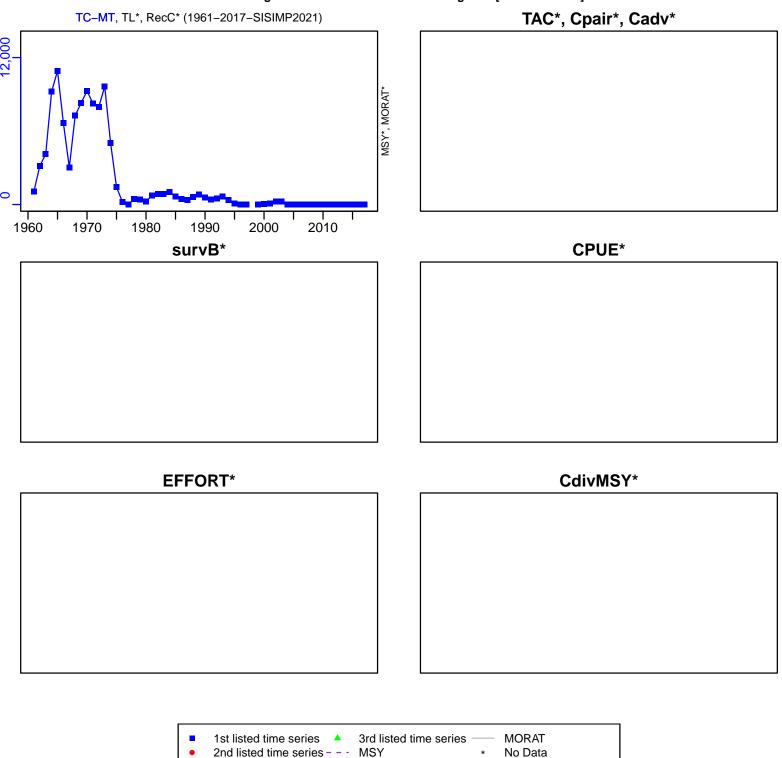
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-		-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

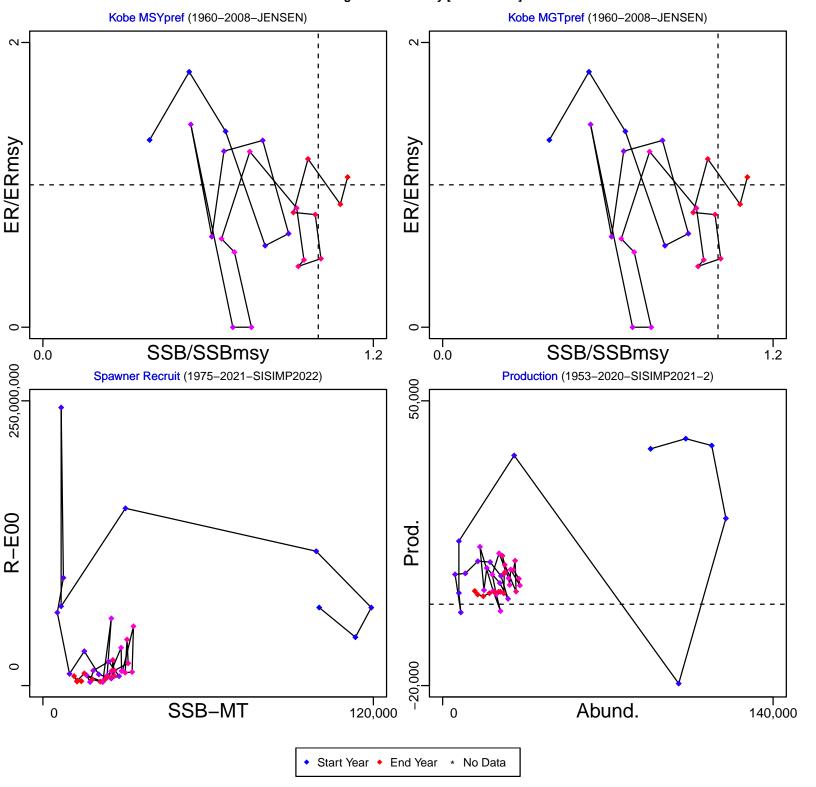
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

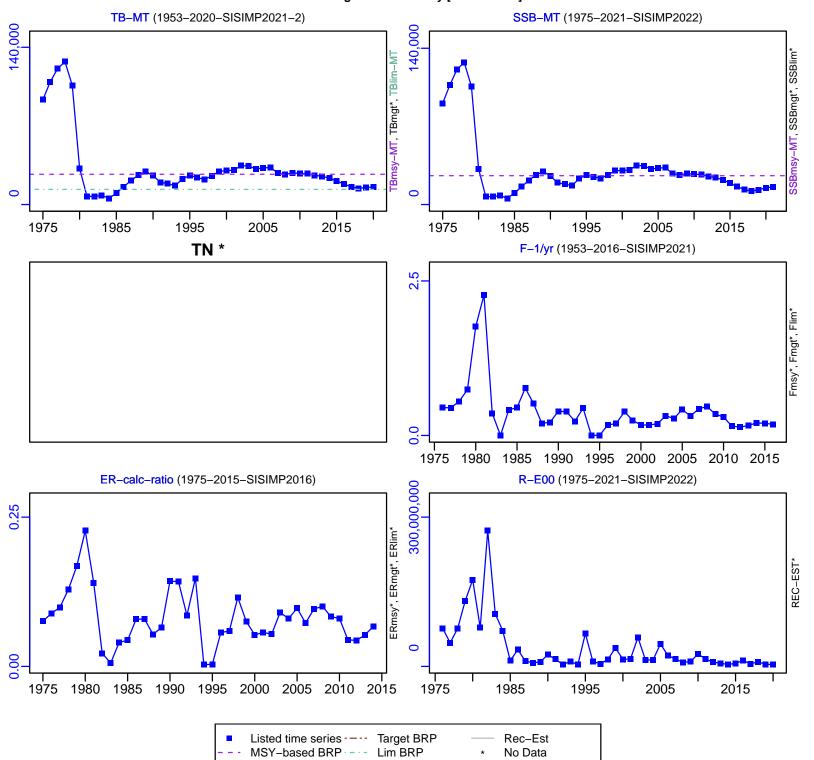


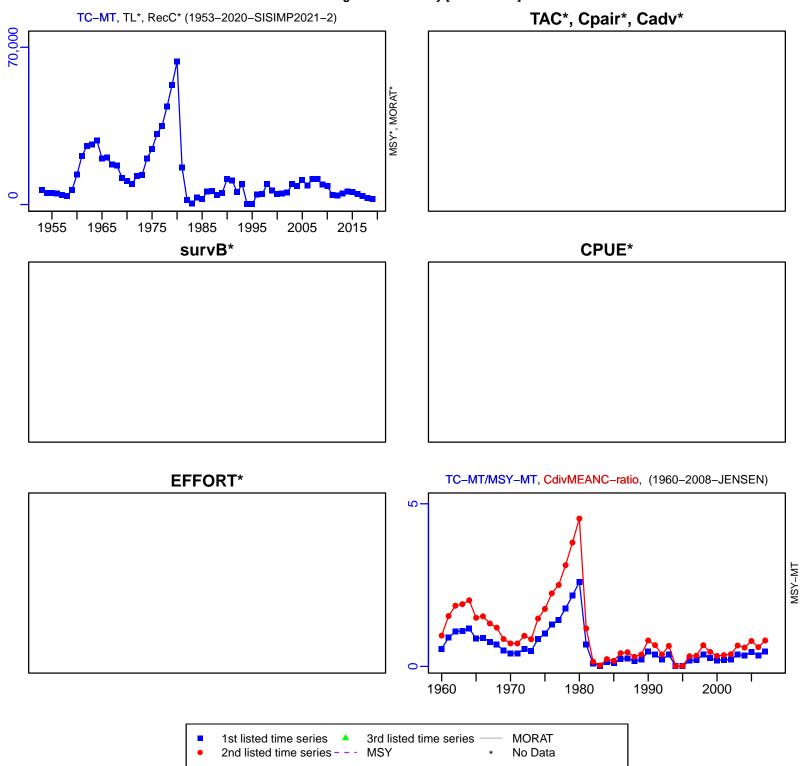
Metadata		
Scientific Name	Paralithodes camtschaticus	
Current Assess ID	AFSC-RKCRABBB-1975-2021-SISIMP2022	
Area	Bristol Bay	
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2016, 2018, 2019, 2020, 2008, 2015, 2021	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2020	14,900	-	-
SSB	SSB-MT	2021	14,795	Males	-
TN	-	-	-	-	-
R	R-E00	2021	3,849,000	-	-
F	F-1/yr	2016	0.167	-	-
ER	ER-calc-ratio	2020	0.156	-	-
TC	TC-MT	2020	2220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2020	0.587		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.611		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-pr-ratio	2008	1.055		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





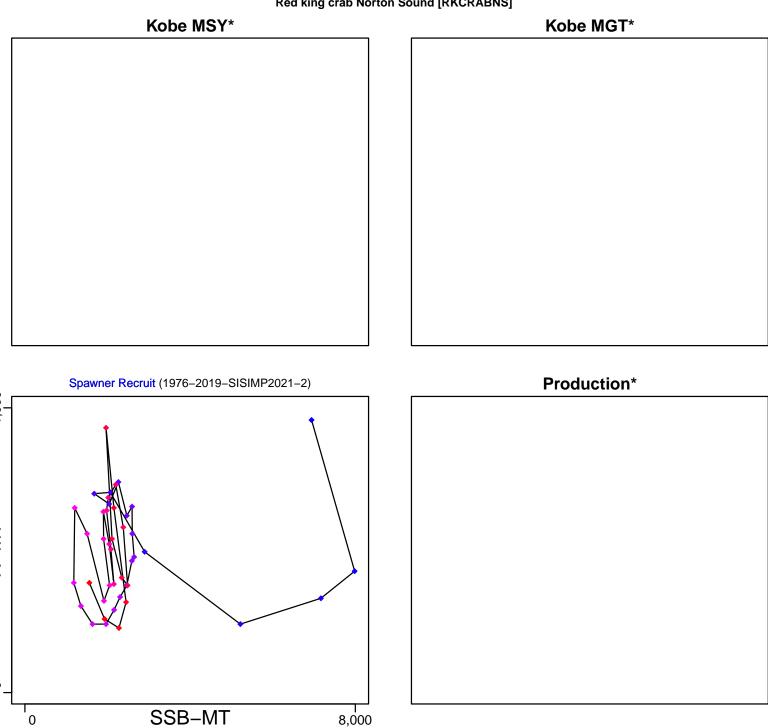


# Red king crab Norton Sound [RKCRABNS]

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

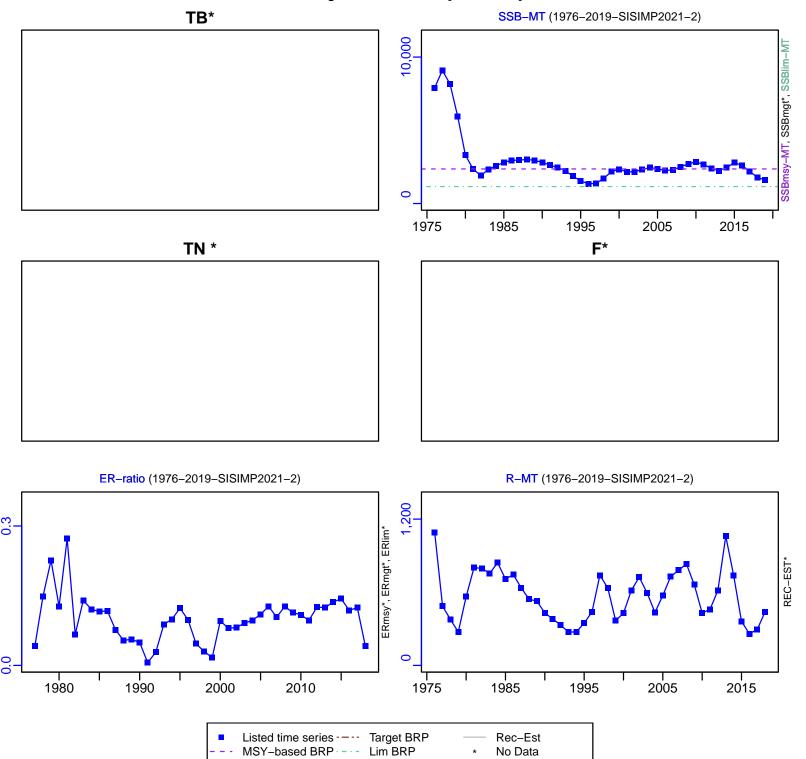
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	2073
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	1016
Flim	-	-	-
ERlim	-	-	-

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

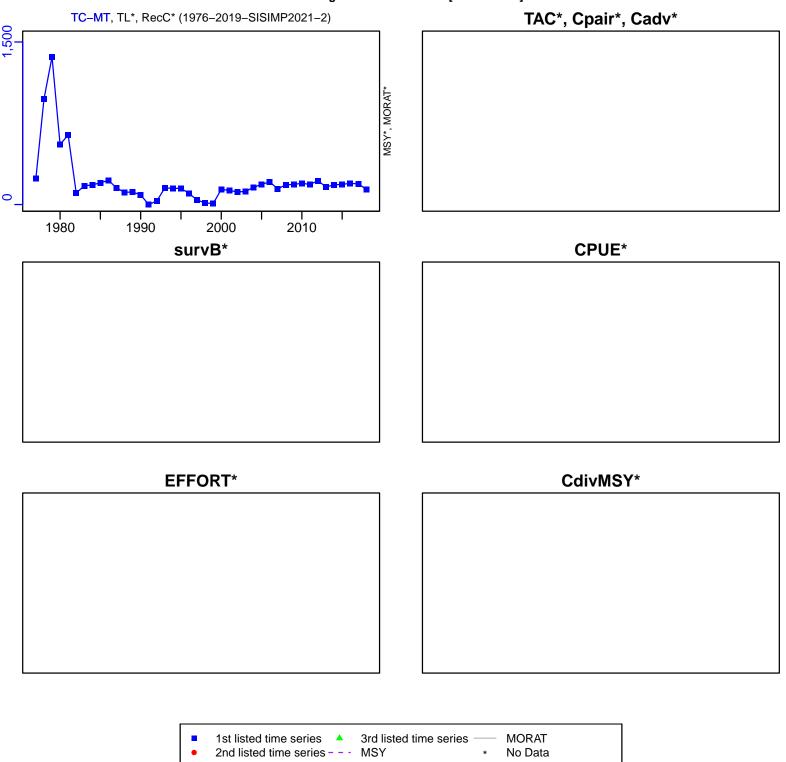


Start Year ◆ End Year \* No Data

### Red king crab Norton Sound [RKCRABNS]



# Red king crab Norton Sound [RKCRABNS]

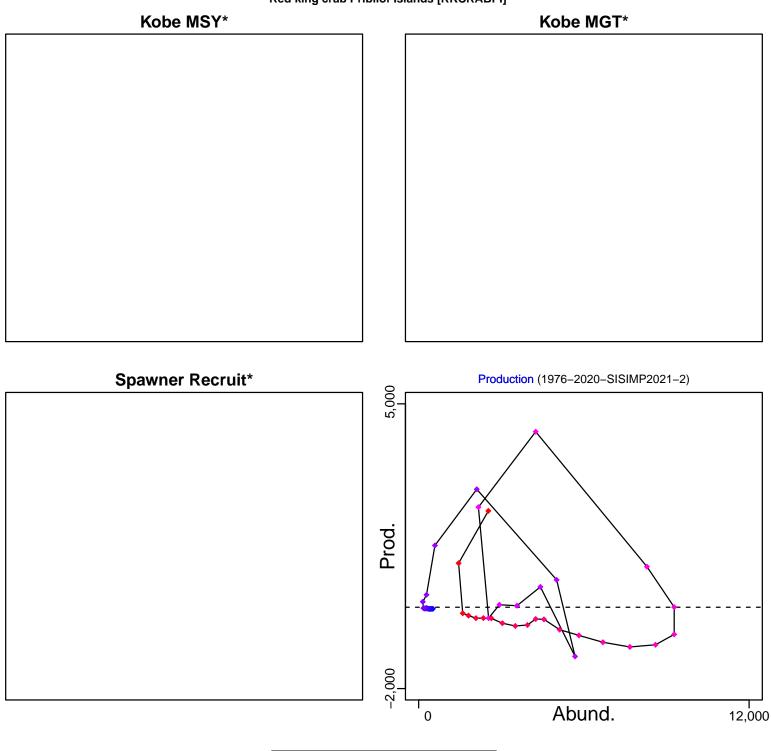


# Red king crab Pribilof Islands [RKCRABPI]

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

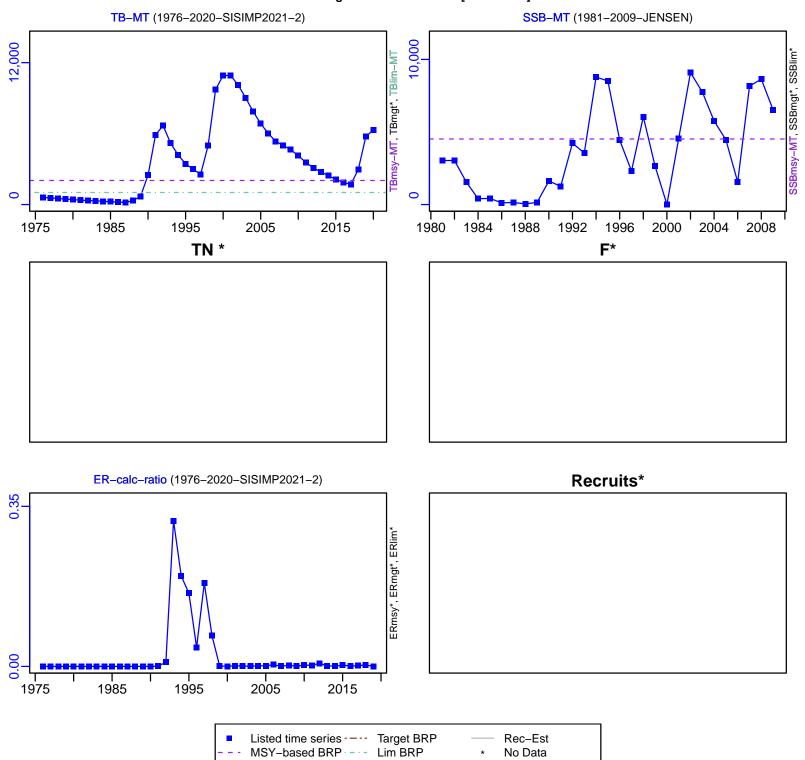
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	1730
SSBmsy	SSBmsy-MT	2009	3928
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	M-1/yr	2009	0.18
TBlim	TBlim-MT	2020	867
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

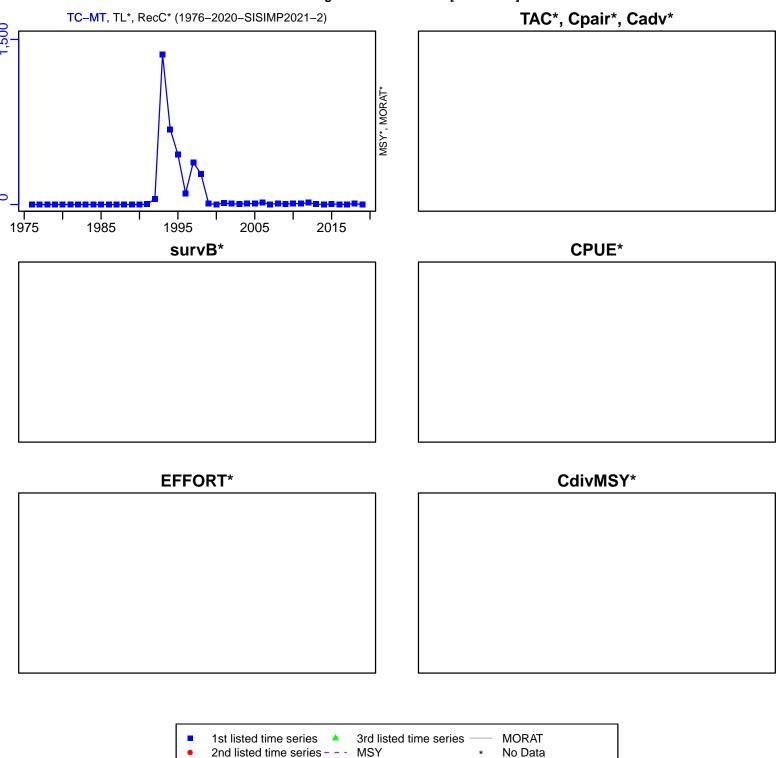


Start Year • End Year \* No Data

### Red king crab Pribilof Islands [RKCRABPI]



# Red king crab Pribilof Islands [RKCRABPI]

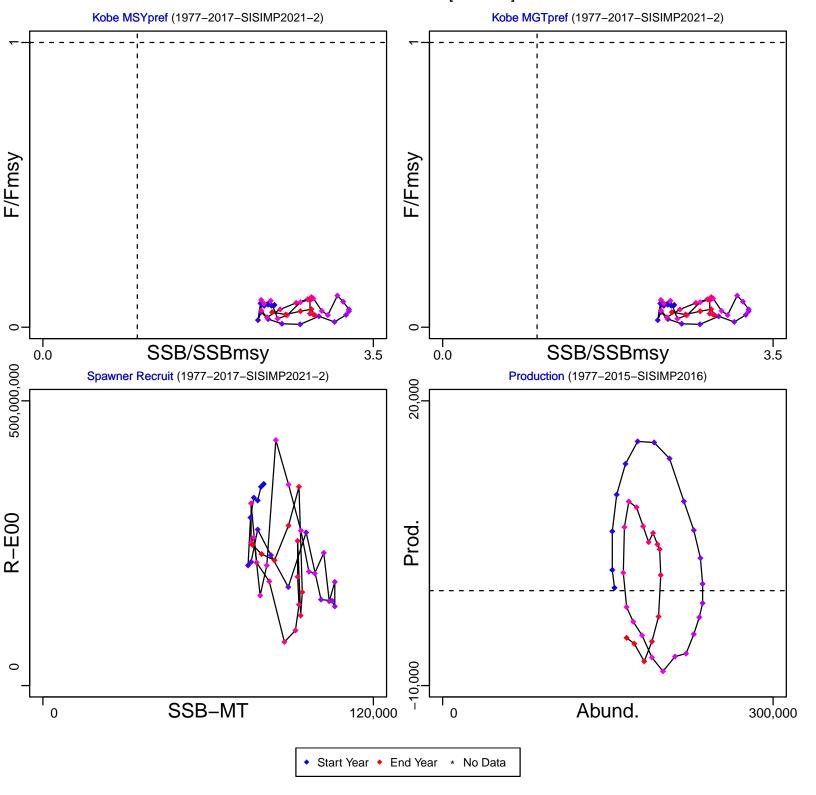


# Rock sole Gulf of Alaska [RSOLEGA]

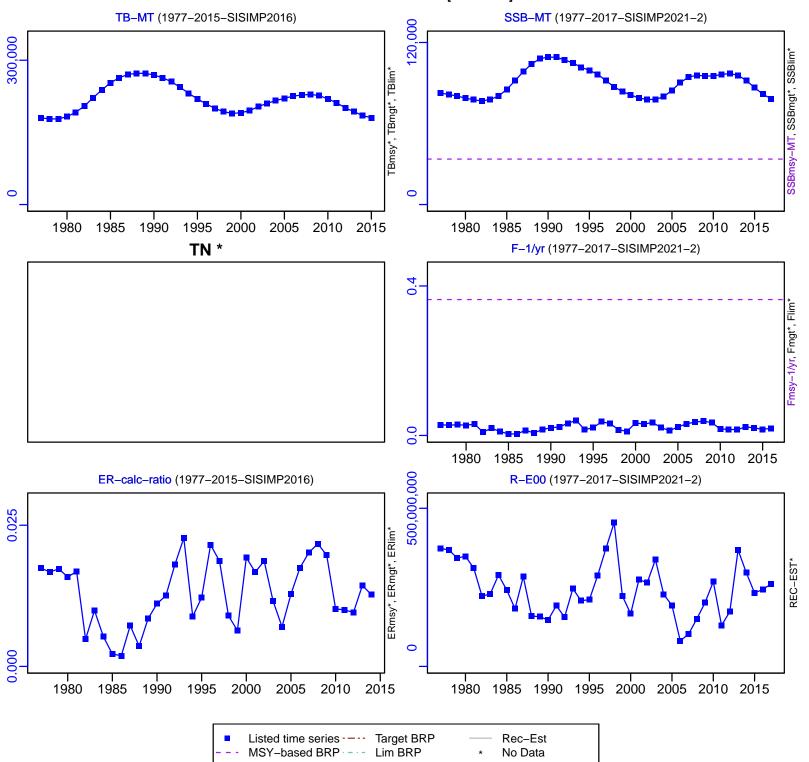
Metadata			
Scientific Name	Lepidopsetta bilineata		
Current Assess ID	AFSC-RSOLEGA-1977-2017-SISIMP2021-2		
Area	Gulf of Alaska		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2015, 2016, 2017		

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

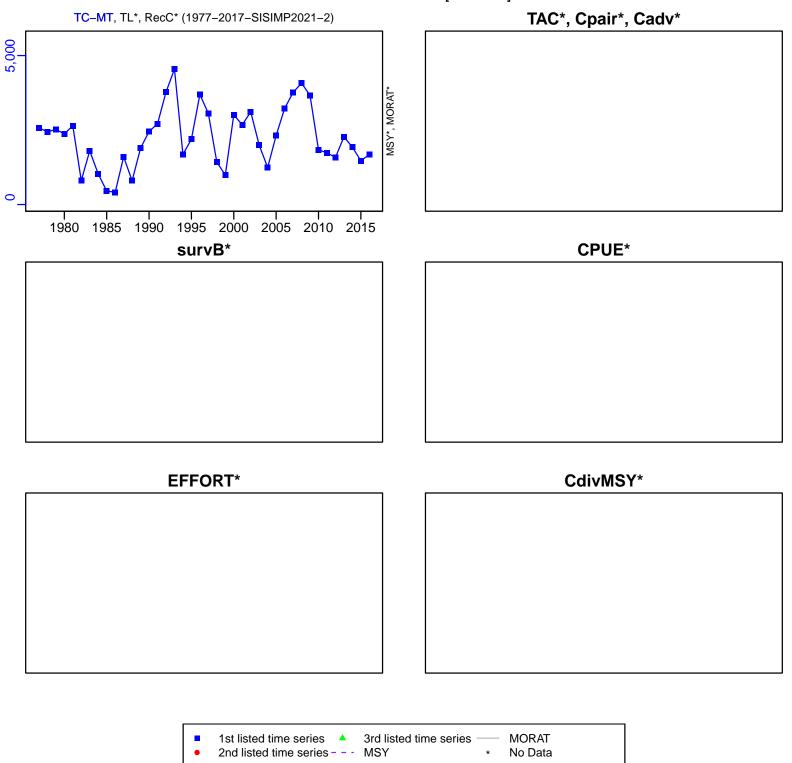
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	156,000	-	3+
SSB	SSB-MT	2017	76,100	-	-
TN	-	-	-	-	-
R	R-E00	2017	$2.47 \times 10^{8}$	-	0
F	F-1/yr	2017	0.017	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2017	1500		,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.327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



#### Rock sole Gulf of Alaska [RSOLEGA]



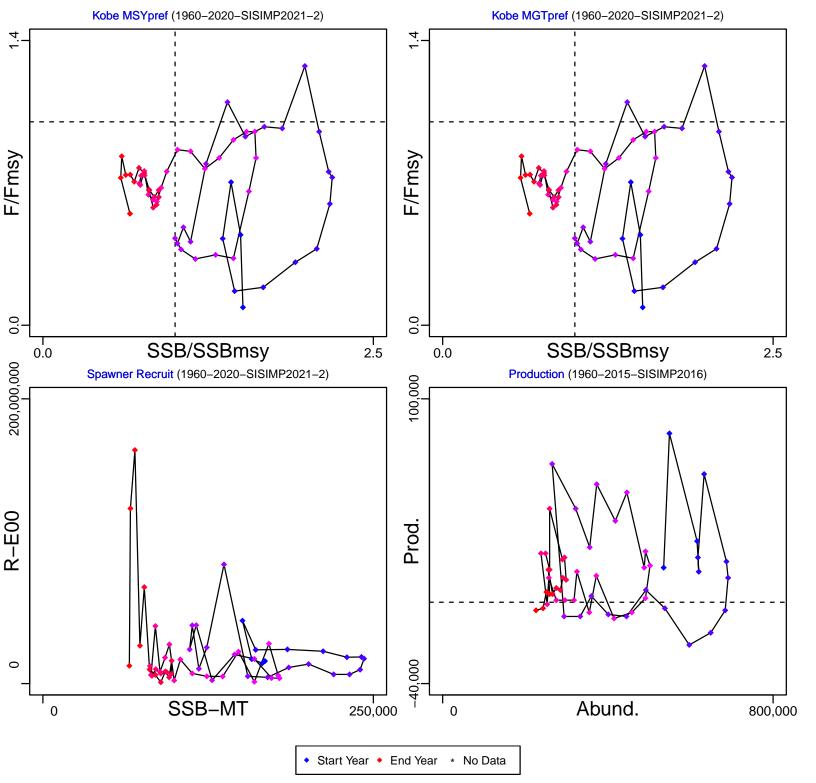
### Rock sole Gulf of Alaska [RSOLEGA]

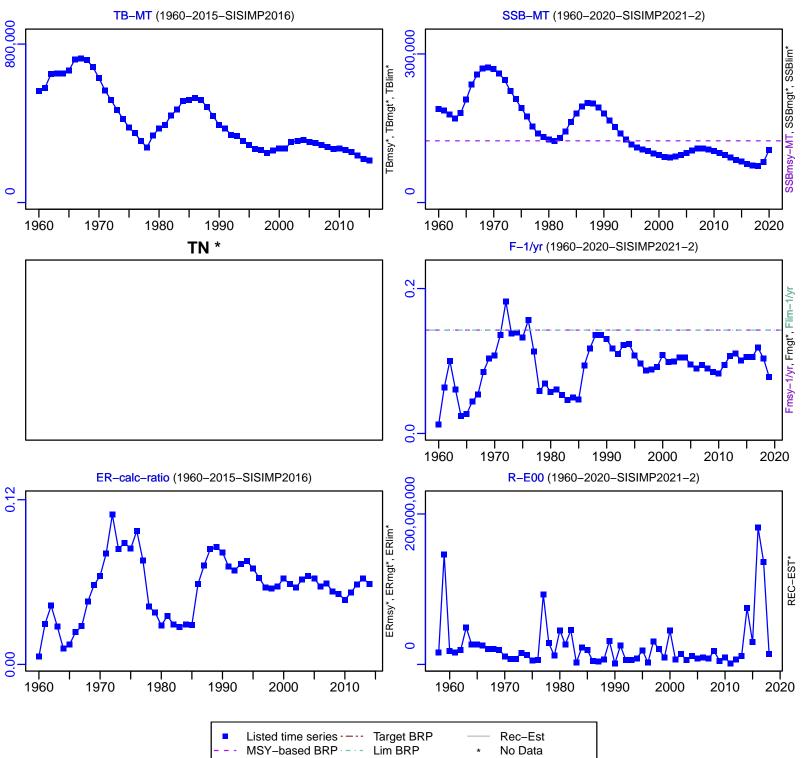


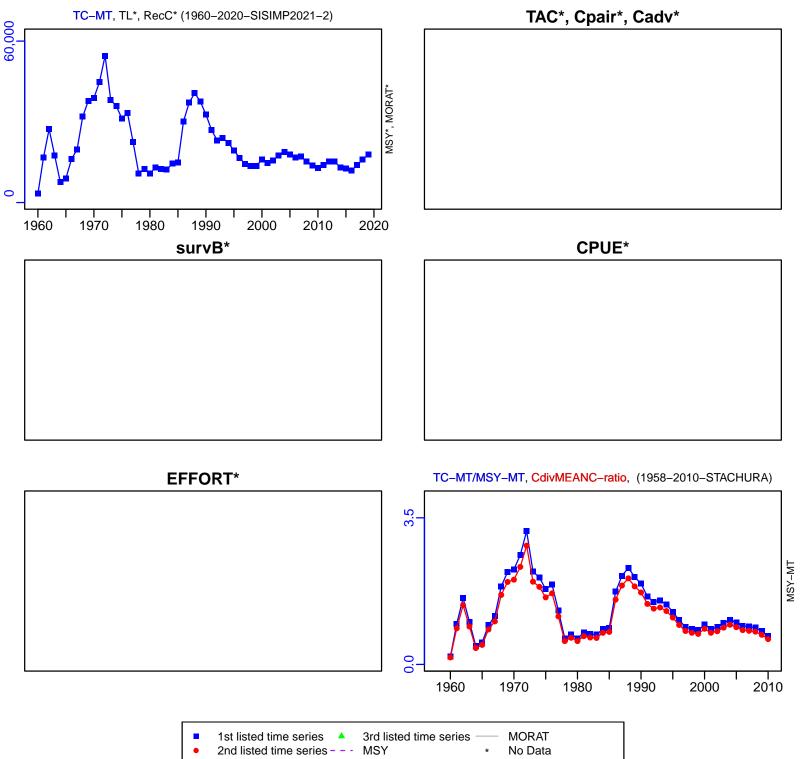
Metadata			
Scientific Name	Anoplopoma fimbria		
Current Assess ID	AFSC-SABLEFEBSAIGA-1960-2020-SISIMP2021-2		
Area Eastern Bering Sea / Aleutian Islands / Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national management			
Assessor	Alaska Fisheries Science Center		
Asmts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

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2010	96,345	
SSBmsy	SSBmsy-MT	2020	111,000	
Fmsy	Fmsy-1/yr	2020	0.124	
ERmsy	ERmsy-ratio	2010	0.197	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2010	275,270	
MSY	MSY-MT	2010	18,950	
M	M-1/yr	2010	0.1	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2019	46,400	
Flim	Flim-1/yr	2020	0.124	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	202,000	Both	2+
SSB	SSB-MT	2020	94,400	-	-
TN	-	-	-	-	-
R	R-E00	2020	12,500,000	-	2
F	F-1/yr	2020	0.068	-	-
ER	ER-calc-ratio	2015	0.058	-	-
TC	TC-MT	2020	17,300		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2010	2.283		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.85		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.548		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2010	0.261		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	1	-	-		



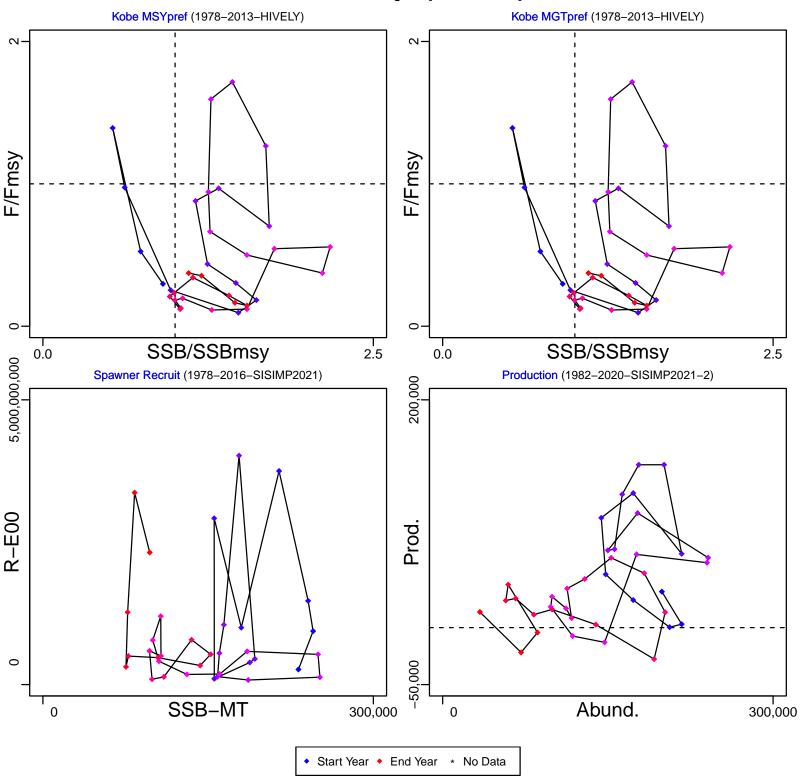


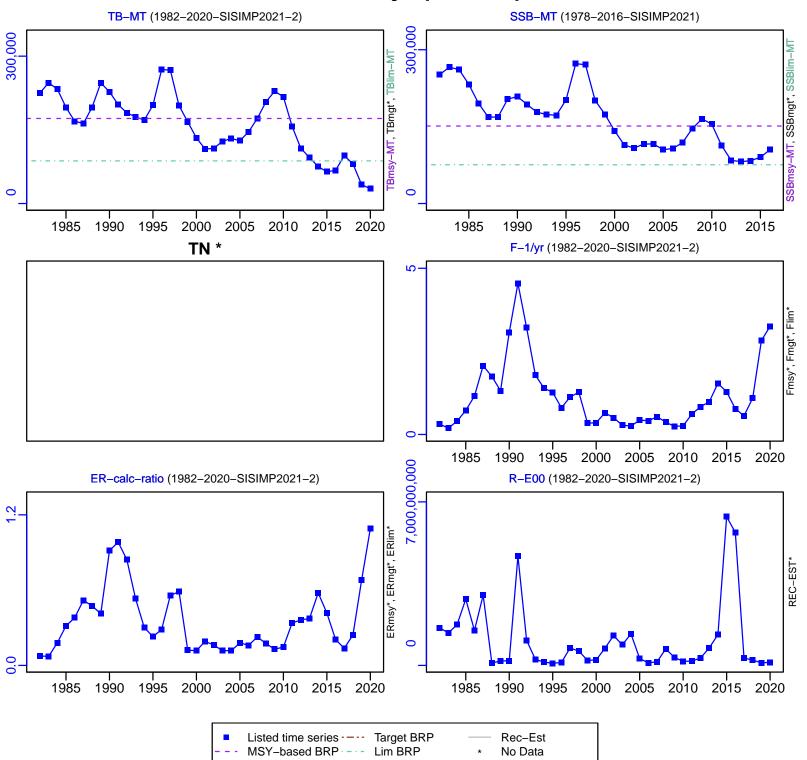


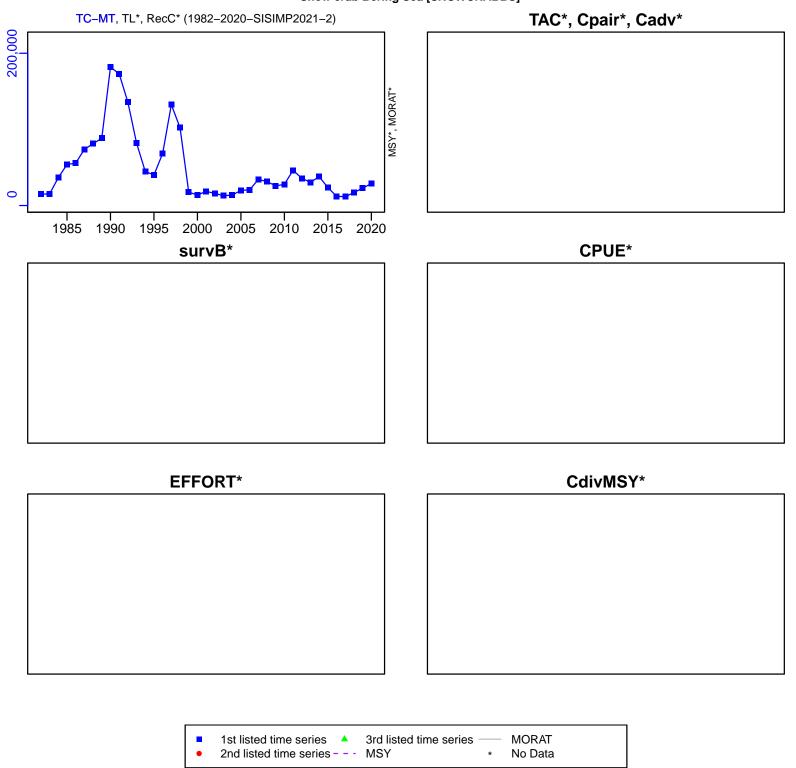
Metadata			
Scientific Name	Chionoecetes opilio		
Current Assess ID	AFSC-SNOWCRABBS-1982-2020-SISIMP2021-2		
Area	Bering Sea		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2013, 2016, 2015, 2017, 2019, 2020		

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

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





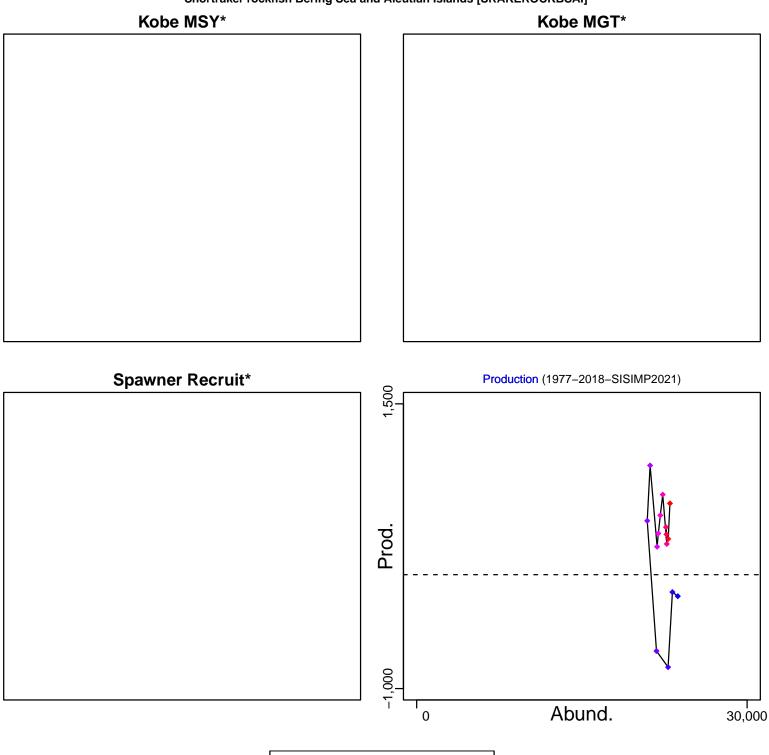


# Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]

Metadata			
Scientific Name	Sebastes borealis		
Current Assess ID	AFSC-SRAKEROCKBSAI-1977-2020-SISIMP2021-2		
Area	Bering Sea and Aleutian Islands		
Management Authority	y National Marine Fisheries Service, US national managemen		
Assessor	Alaska Fisheries Science Center		
Asmts in RAM	2010, 2018, 2020, 2016, 2014		

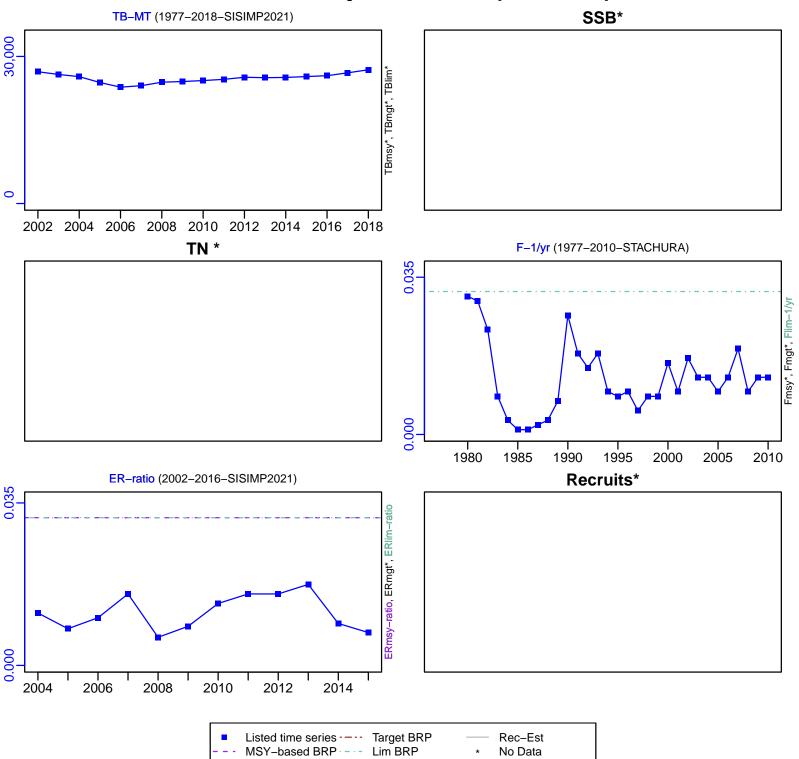
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2016	0.031	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2010	0.03	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2010	0.03	
ERlim	ERlim-ratio	2016	0.031	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	24,055	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	0.012	Both	-
ER	ER-calc-ratio	2018	0.007	-	-
TC	TC-MT	2020	380		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.223		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

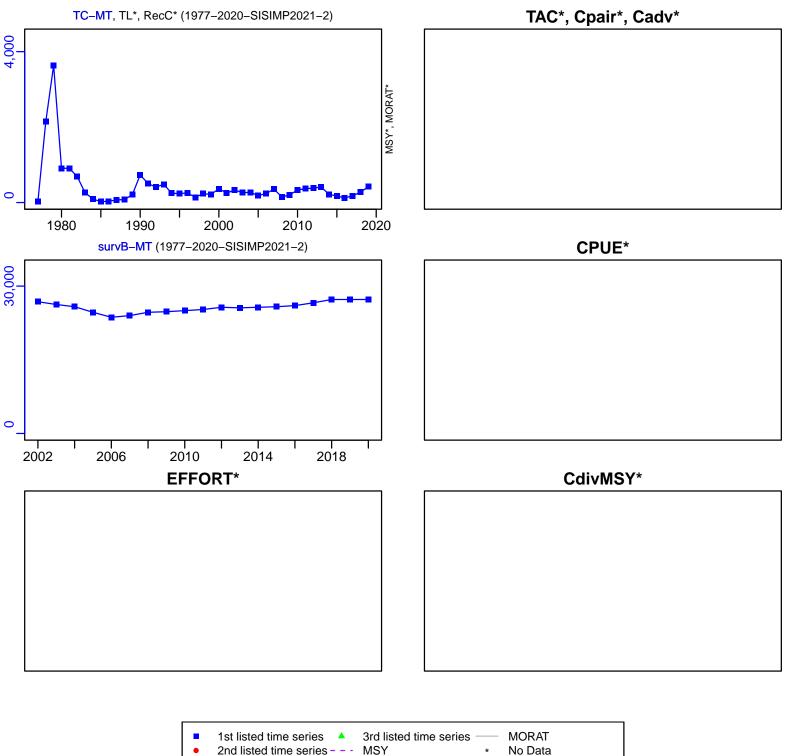


Start Year ◆ End Year \* No Data

#### Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]



### Shortraker rockfish Bering Sea and Aleutian Islands [SRAKEROCKBSAI]



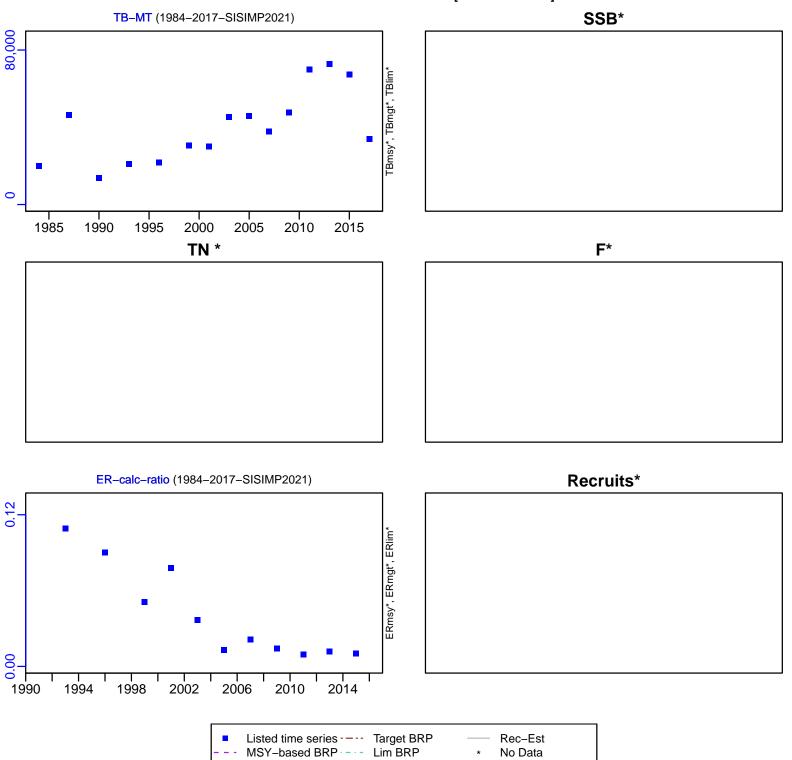
Metadata			
Scientific Name	Sebastes borealis		
Current Assess ID AFSC-SRAKEROCKGA-1991-2018-SISIMP2021-2			
Area Gulf of Alaska			
Management Authority National Marine Fisheries Service, US national managem			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2016, 2017, 2018, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2016	0.031	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2016	0.031	

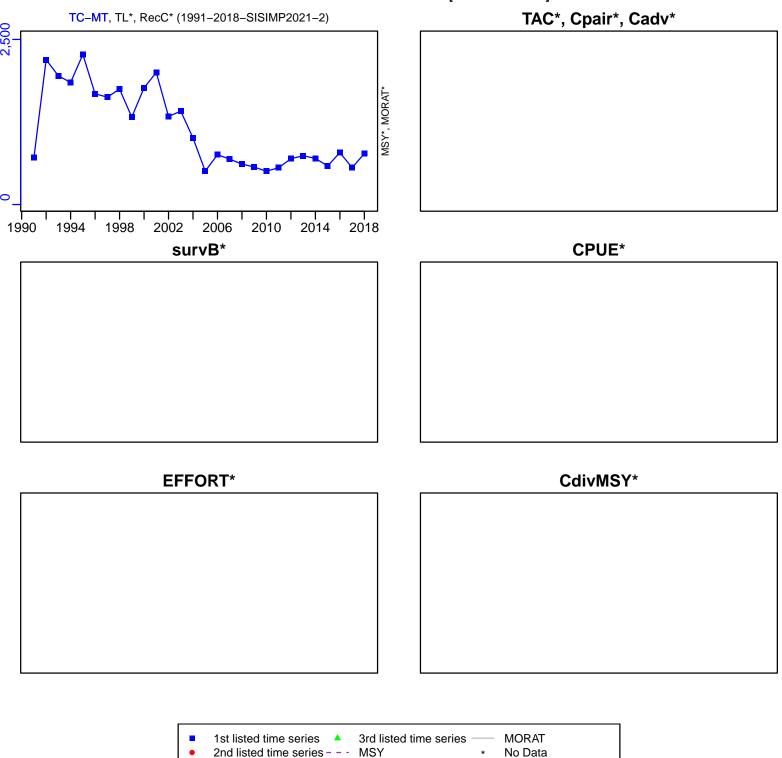
Time Series						
Туре	ID Asmt Year Curr Value					
ТВ	TB-MT	2017	31,534	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2017	0.009	-	-	
TC	TC-MT	2018	763			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.323			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spannor Restain	1 1044511611
opannor reorait	
opannor recordic	
opannor nooran	
opannor nooran	
opannor nooran	

◆ Start Year ◆ End Year \* No Data



No Data

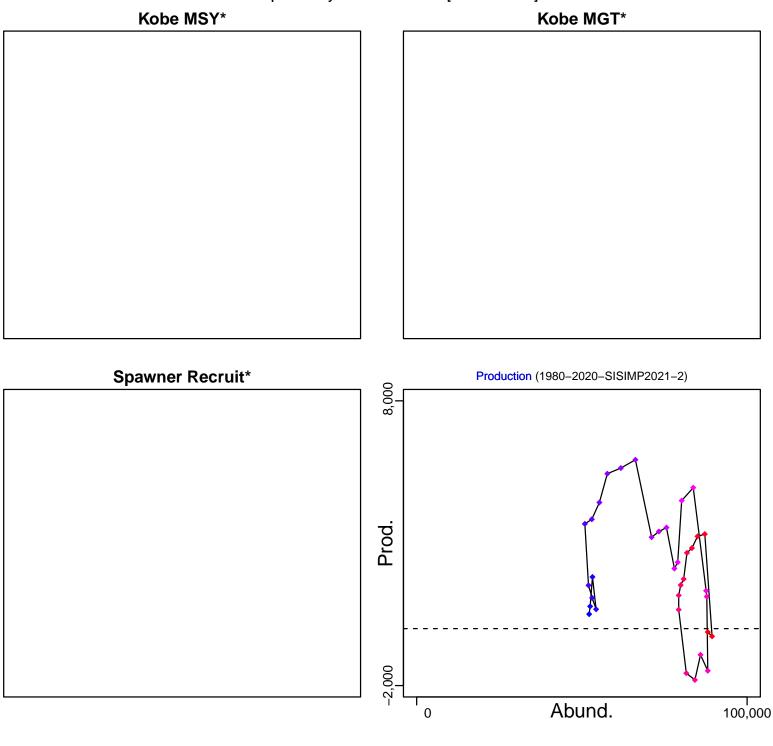


# Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

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

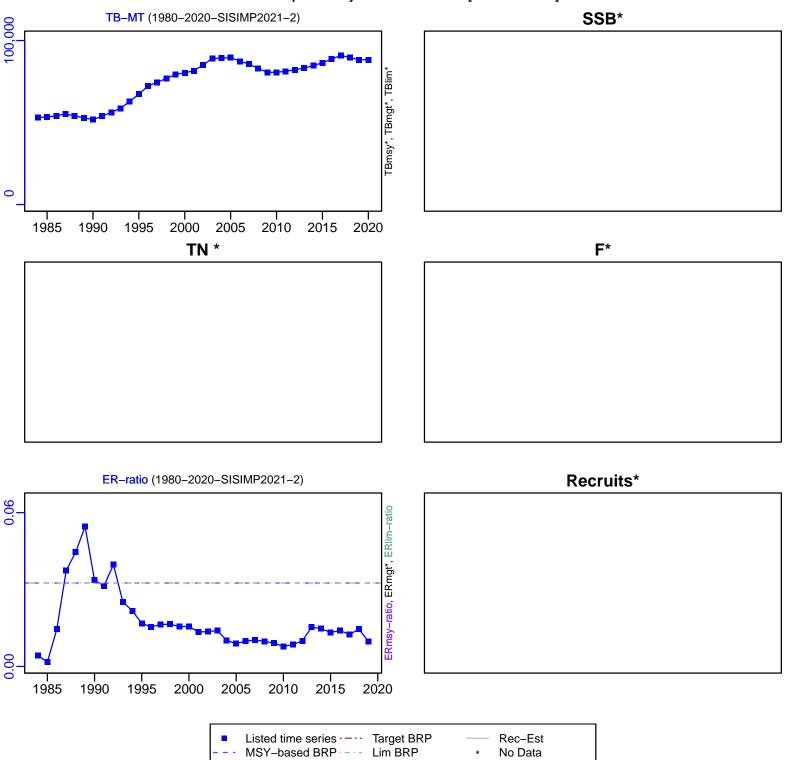
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2020	0.03	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2020	0.03	

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



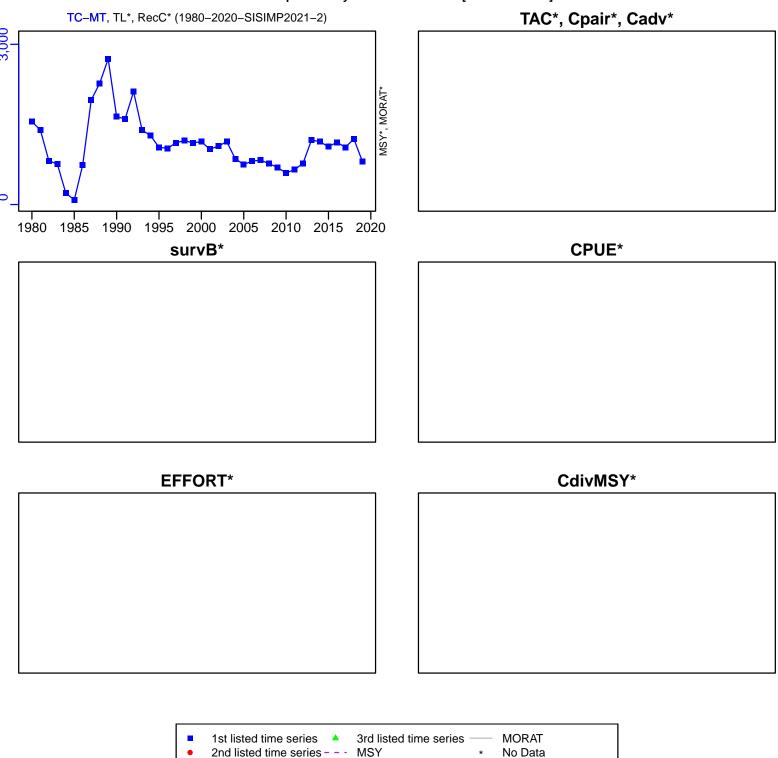
Start Year • End Year \* No Data

### Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]



No Data

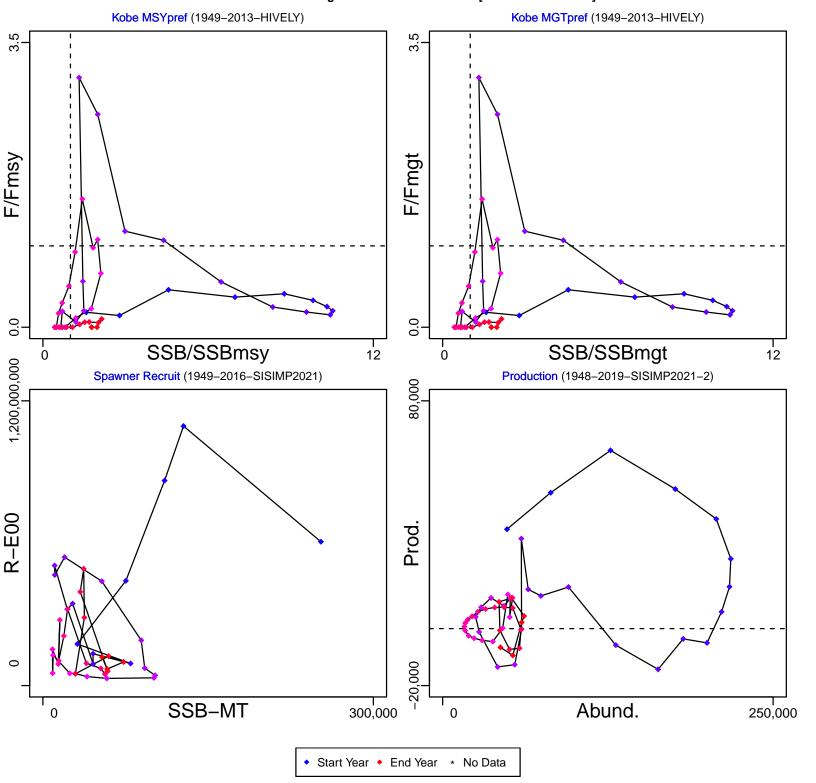
### Shortspine thornyhead Gulf of Alaska [SSTHORNHGA]

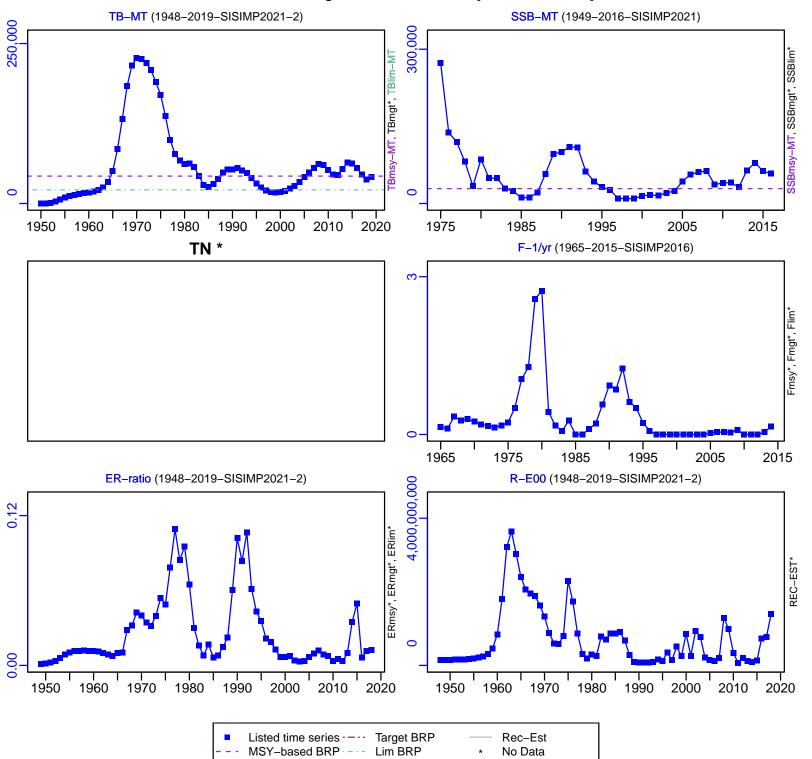


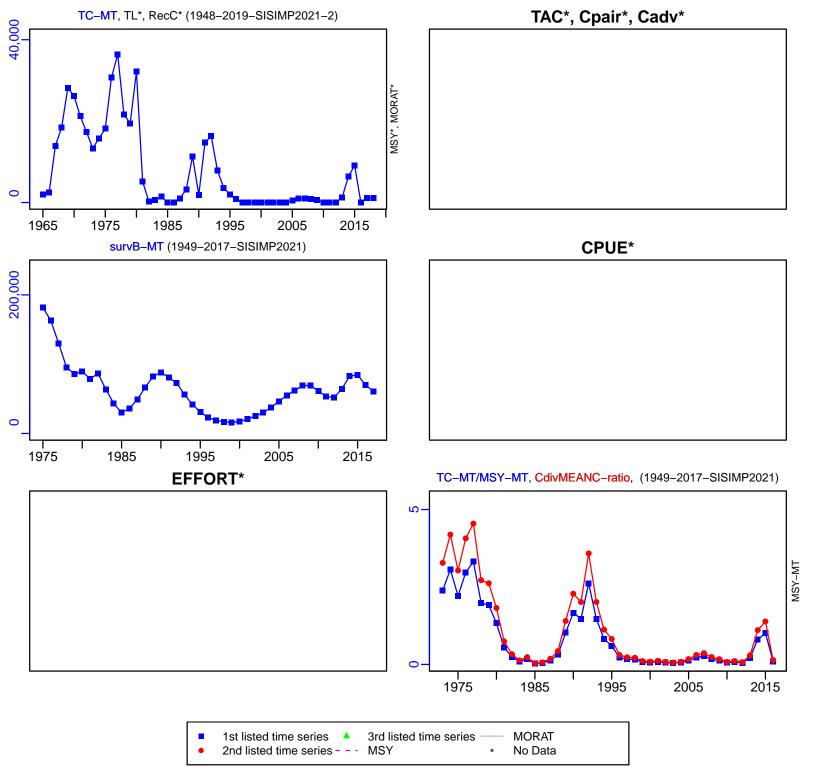
Metadata			
Scientific Name	Chionoecetes bairdi		
Current Assess ID	AFSC-TANNERCRABBSAI-1948-2019-SISIMP2021-2		
Area Bering Sea and Aleutian Islands			
Management Authority	National Marine Fisheries Service, US national management		
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2017, 2019, 2013, 2016, 2017, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2019	41,100	
SSBmsy	SSBmsy-MT	2017	29,170	
Fmsy	Fmsy-pr-1/yr	2013	0.73	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2013	33,540	
Fmgt	Fmgt-1/yr	2013	0.73	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2017	12,250	
M	-	-	-	
TBlim	TBlim-MT	2019	20,500	
SSBlim	SSBlim-MT	2017	14,580	
Flim	-	-	-	
ERlim	-	1	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	39,500	-	-
SSB	SSB-MT	2016	53,700	-	-
TN	-	-	-	-	-
R	R-E00	2019	$1.23 \times 10^{9}$	-	0
F	F-1/yr	2015	0.144	-	-
ER	ER-ratio	2019	0.011	-	-
TC	TC-MT	2019	1110		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2019	0.961		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.004		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2013	0		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.771		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	0		
ER/ERmgt	-	-	-		





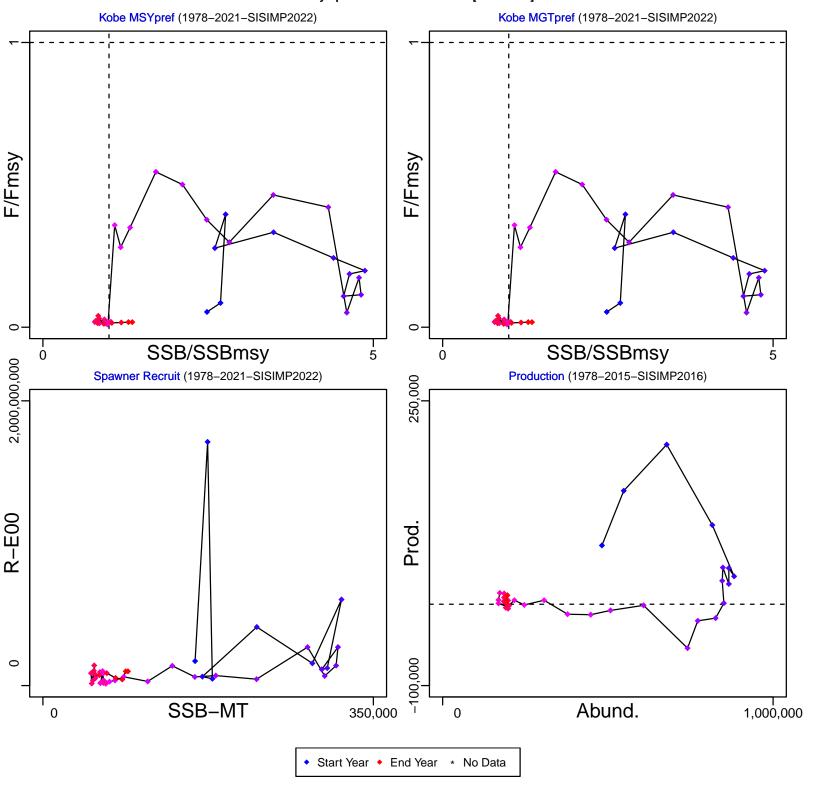


# Walleye pollock Aleutian Islands [WPOLLAI]

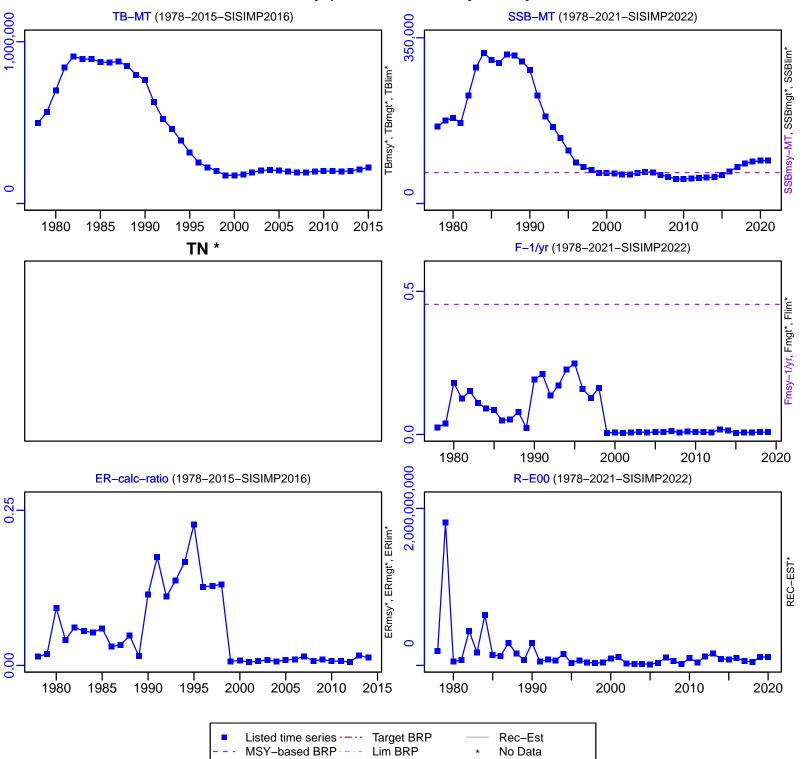
Metadata			
Scientific Name	Theragra chalcogramma		
Current Assess ID AFSC-WPOLLAI-1978-2021-SISIMP2022			
Area Aleutian Islands			
Management Authority National Marine Fisheries Service, US national managem			
Assessor Alaska Fisheries Science Center			
Asmts in RAM	2013, 2015, 2016, 2018, 2018, 2020,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

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

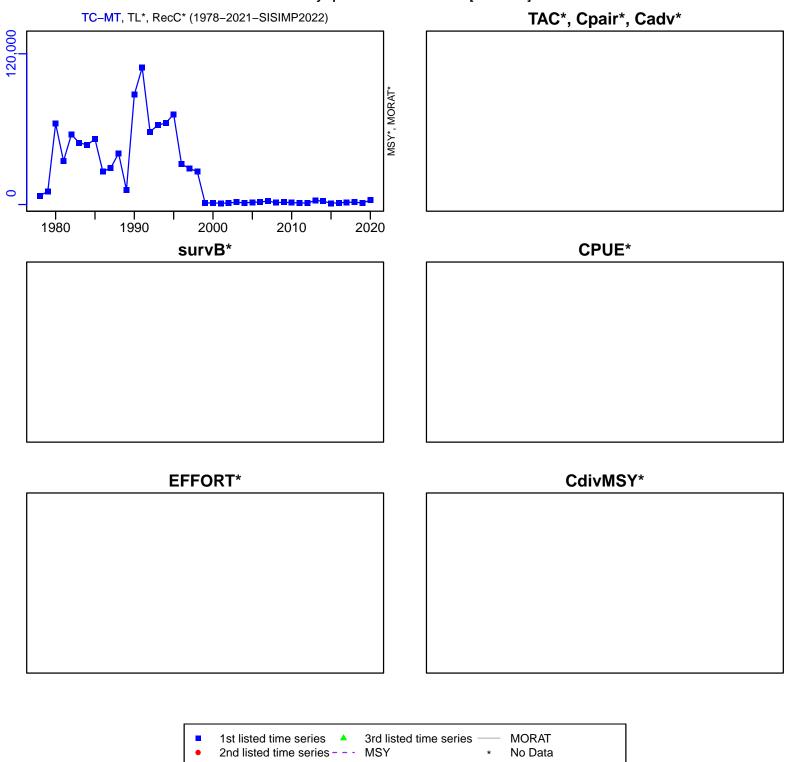
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	216,000	-	1+
SSB	SSB-MT	2021	89,906	-	-
TN	-	-	-	-	-
R	R-E00	2021	$1 \times 10^{8}$	-	0
F	F-1/yr	2021	0.007	-	-
ER	ER-calc-ratio	2015	0.012	-	-
TC	TC-MT	2021	3205		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.385	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



#### Walleye pollock Aleutian Islands [WPOLLAI]



### Walleye pollock Aleutian Islands [WPOLLAI]

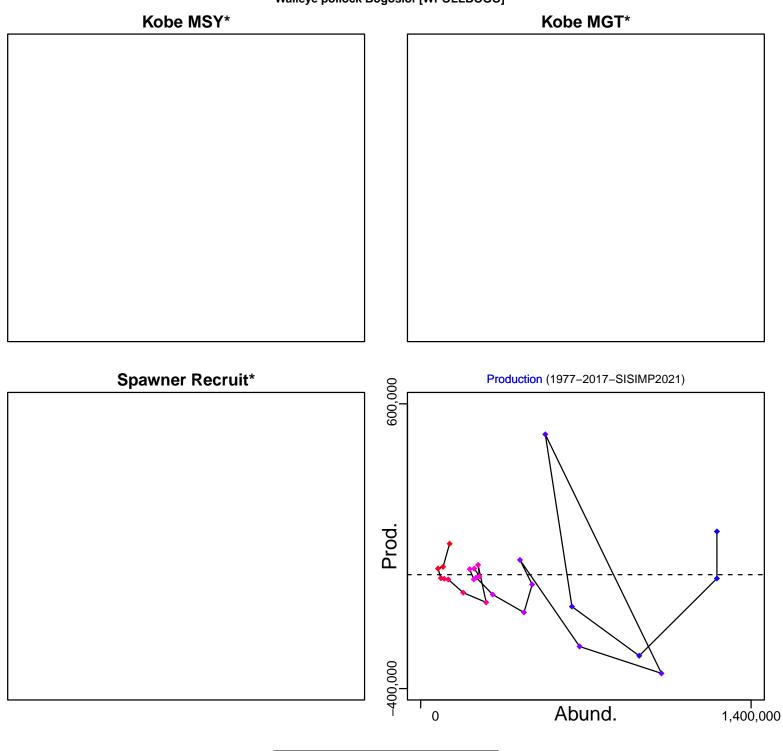


# Walleye pollock Bogoslof [WPOLLBOGO]

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

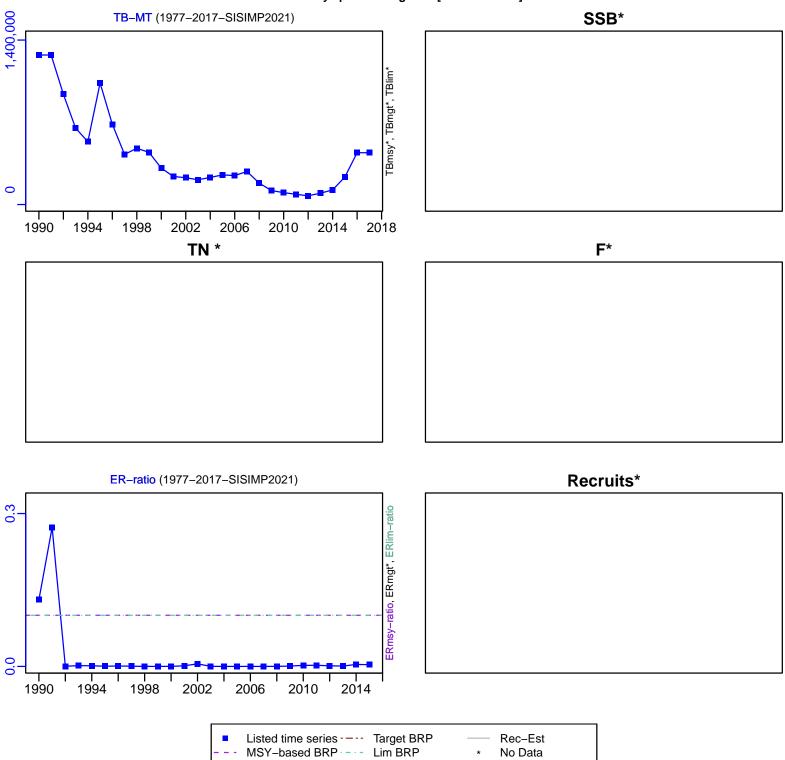
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2017	0.092	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2017	0.092	

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



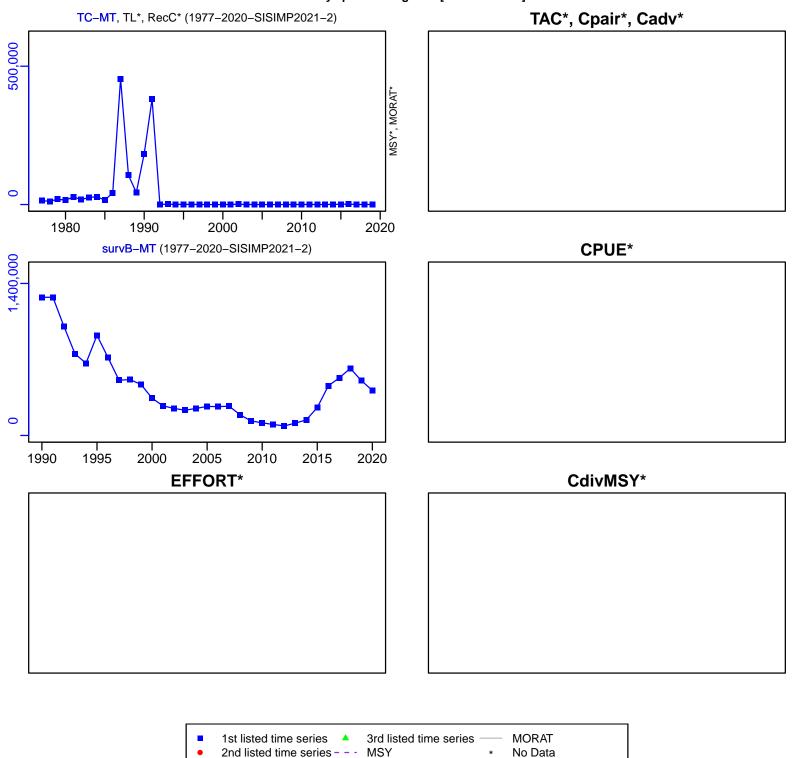
Start Year → End Year → No Data

### Walleye pollock Bogoslof [WPOLLBOGO]



No Data

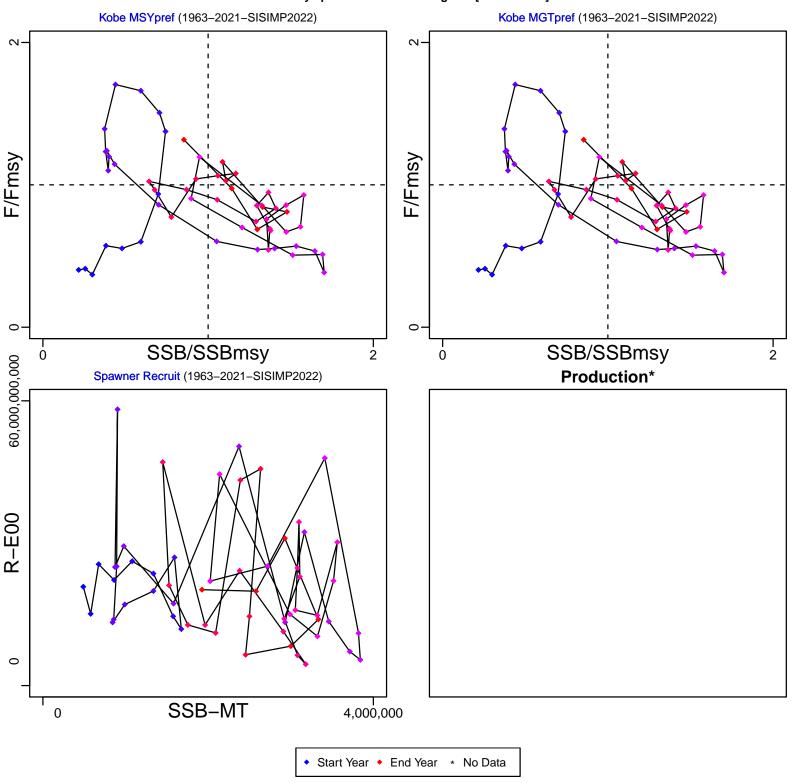
### Walleye pollock Bogoslof [WPOLLBOGO]

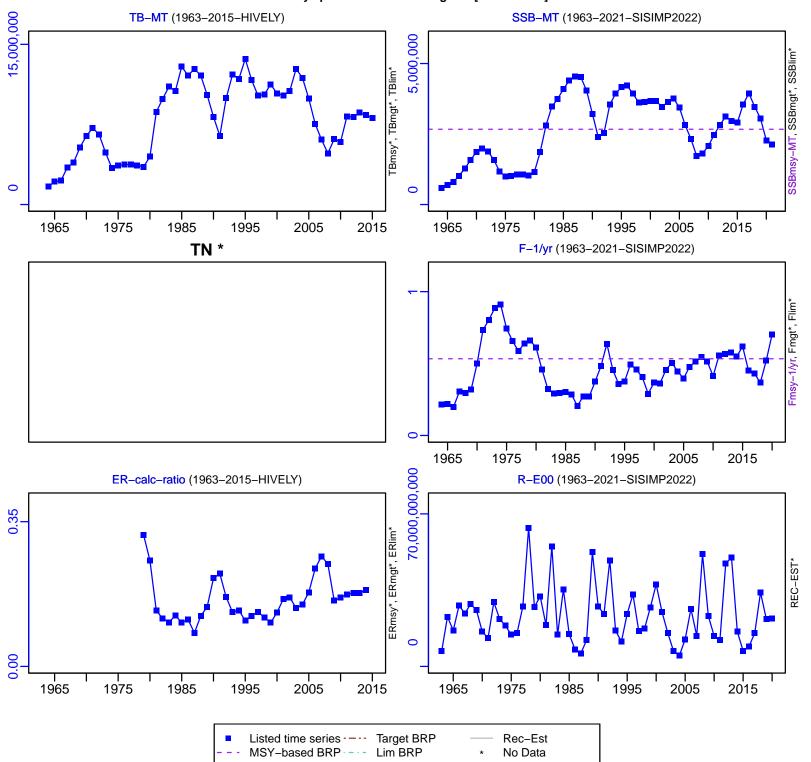


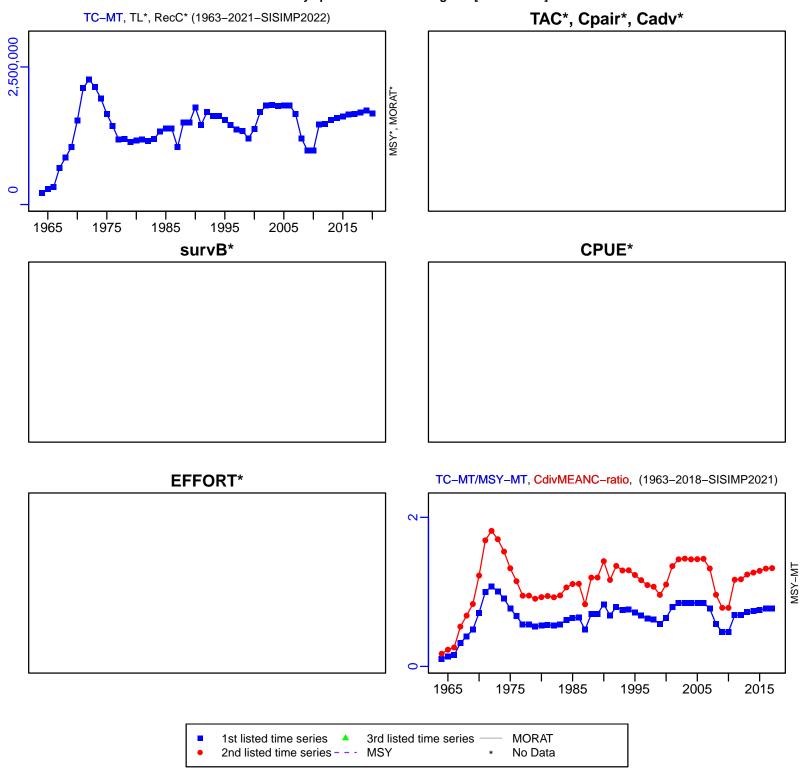
Metadata				
Scientific Name	Theragra chalcogramma			
Current Assess ID AFSC-WPOLLEBS-1963-2021-SISIMP2022				
Area Eastern Bering Sea				
Management Authority National Marine Fisheries Service, US national managem				
Assessor Alaska Fisheries Science Center				
<b>Asmts in RAM</b> 2015, 2016, 2017,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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2021	2,257,000	
Fmsy	Fmsy-1/yr	2021	0.46	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2015	5,162,000	
MSY	MSY-MT	2018	1,953,300	
M	M-1/yr	2015	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	Flim-1/yr	2020	0.508	
ERlim	-	-	-	

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



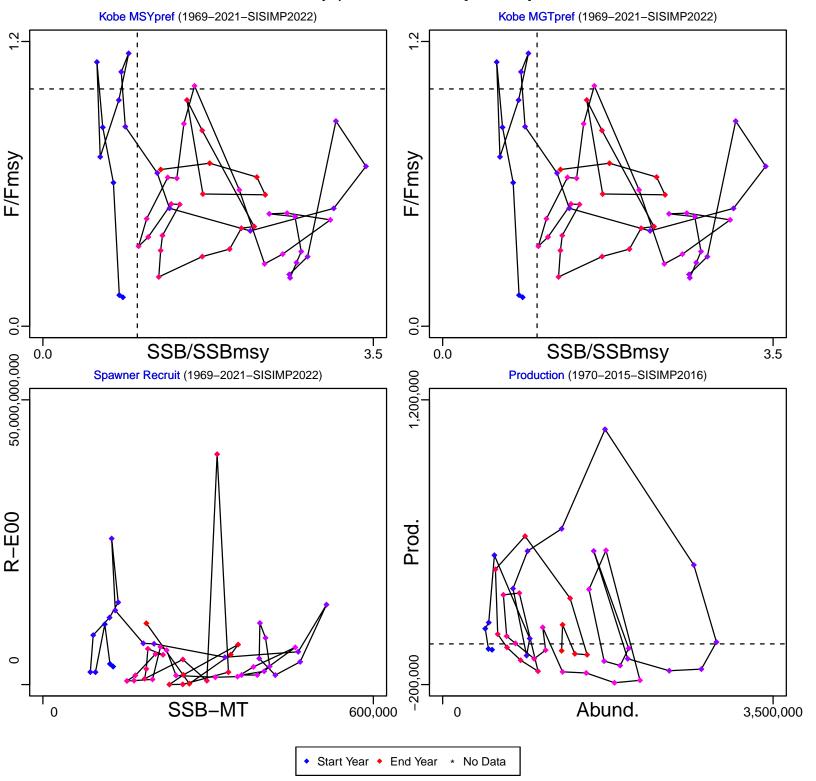


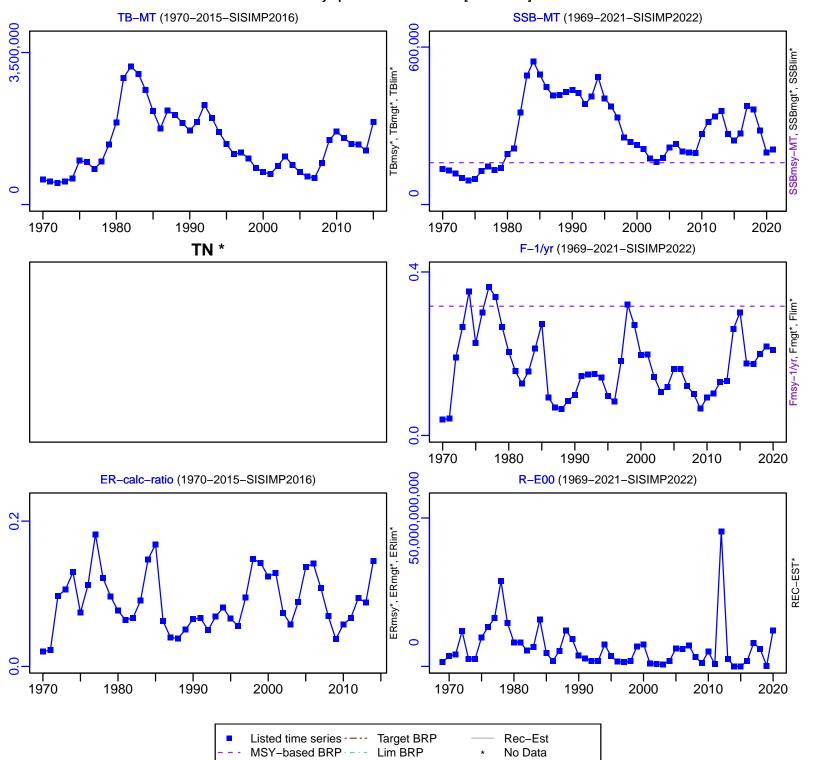


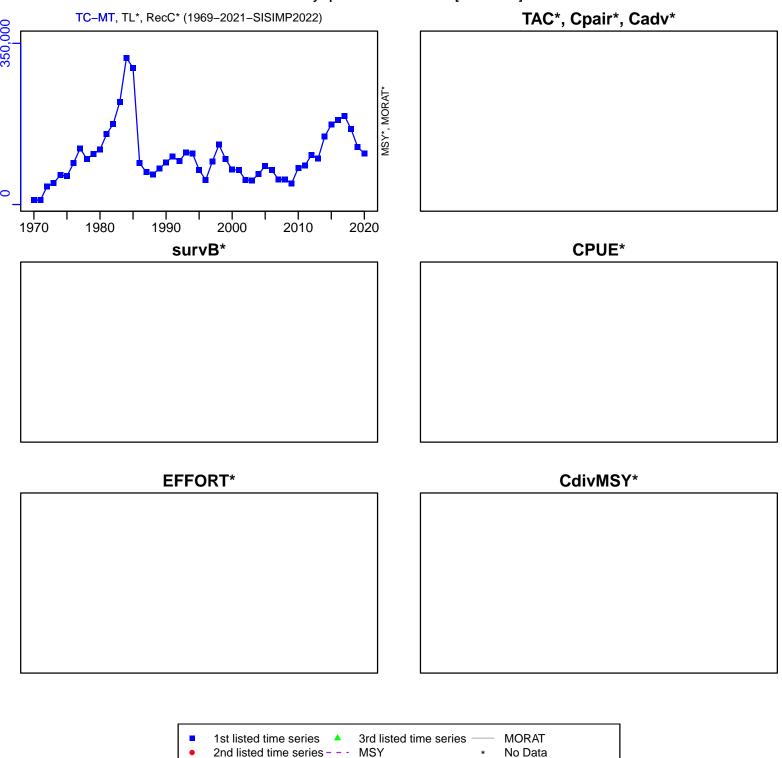
Metadata				
Scientific Name	Theragra chalcogramma			
Current Assess ID	AFSC-WPOLLGA-1969-2021-SISIMP2022			
Area	Gulf of Alaska			
Management Authority	National Marine Fisheries Service, US national management			
Assessor Alaska Fisheries Science Center				
<b>Asmts in RAM</b> 2019, 2016, 2017, 2018,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

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	1,730,000	-	3+
SSB	SSB-MT	2021	197,189	-	-
TN	-	-	-	-	-
R	R-E00	2021	10,759,599,610	-	1
F	F-1/yr	2021	0.205	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2021	107,471		
TL	-	-	-	1	
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.31		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.66		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.09		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.838		
ER/ERmgt	-	-	-		







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

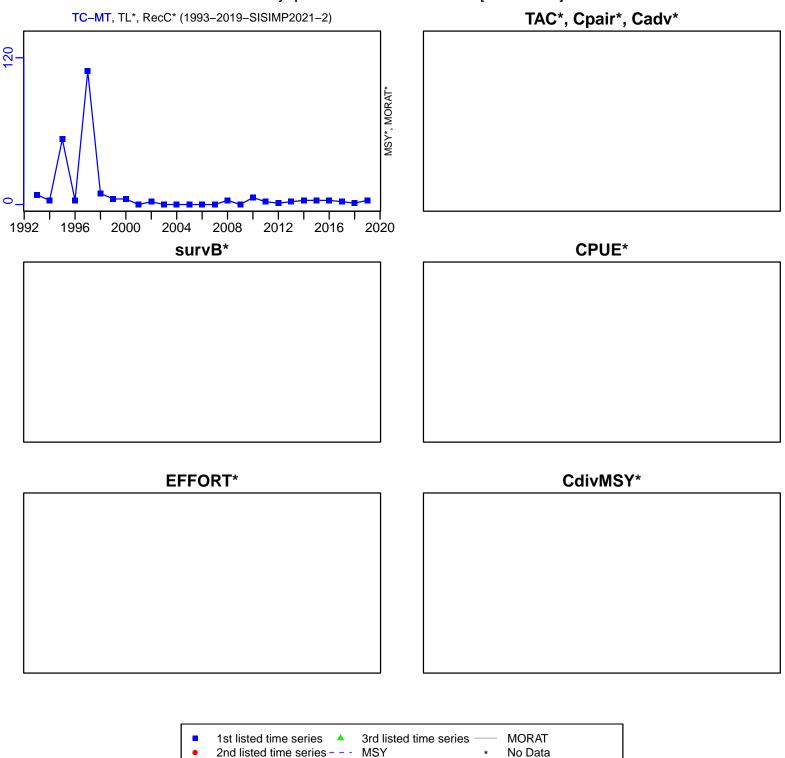
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	3		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta MSY-based BRP Li	im BRP * No Data



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

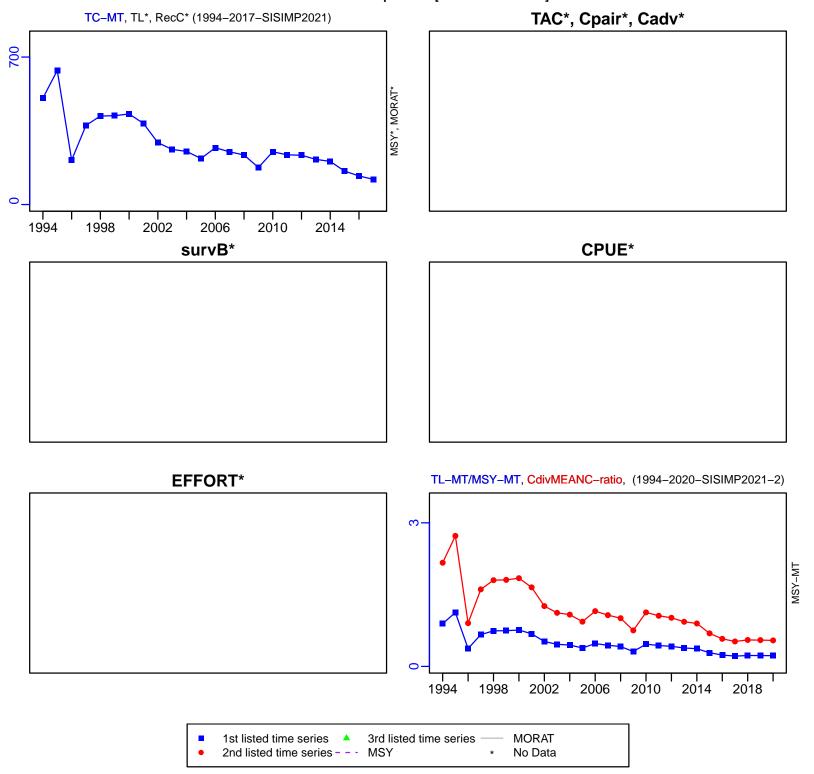
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2020	581		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

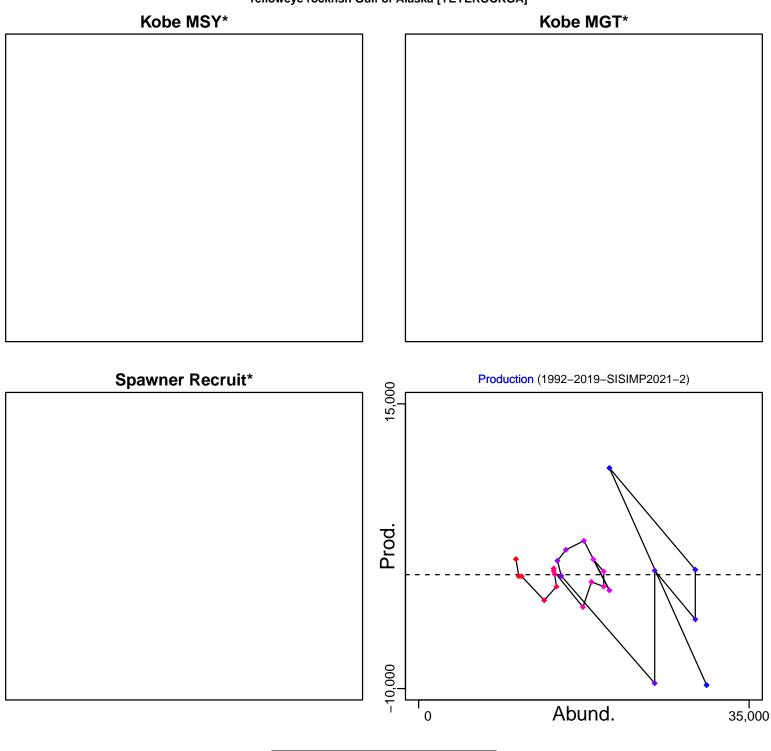


# Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]

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

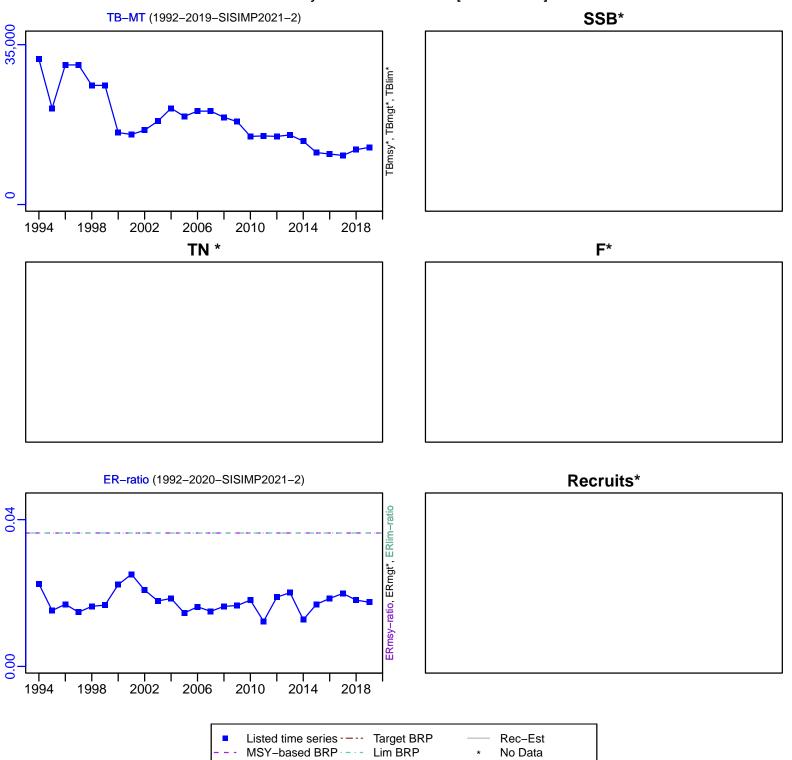
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2020	0.032	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	ERlim-ratio	2020	0.032	

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



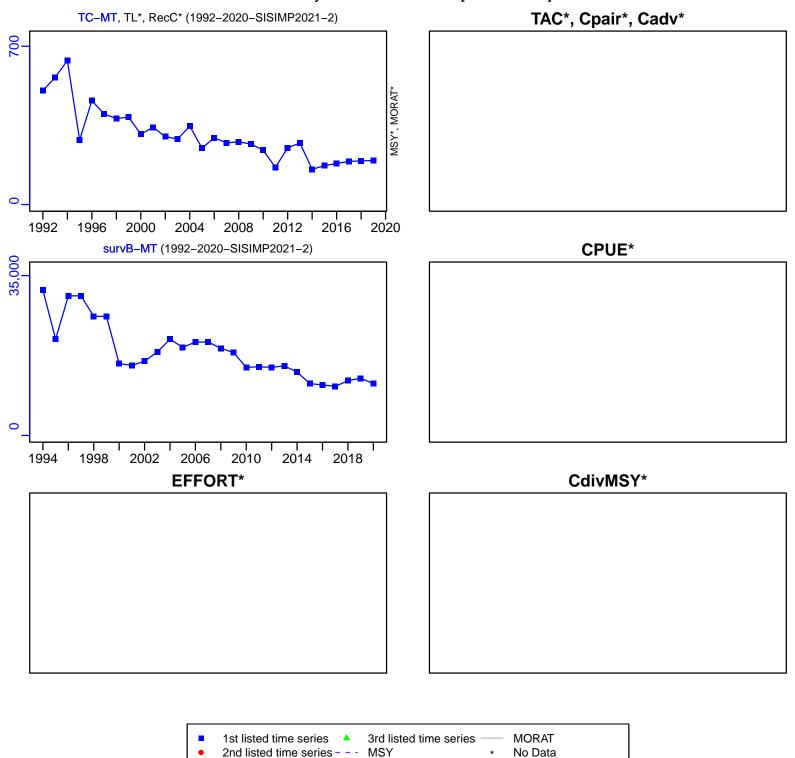
Start Year • End Year \* No Data

### Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]



No Data

### Yelloweye rockfish Gulf of Alaska [YEYEROCKGA]



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

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

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

