

pleuronectids Stocks

v4.66 (Nov-03-2024)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ALPLAICBSAI [Alaska plaice Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F	
2. AMPL23K [American plaice Labrador - NE Newfoundland]	TB SSB	ER F	TB SSB	ER F	
3. AMPL3LNO [American plaice Grand Banks]	TB SSB	ER F	TB SSB	ER F	
4. AMPL3M [American plaice Flemish Cap]	TB SSB	ER F	TB SSB	ER F	
5. AMPL3Ps [American plaice St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F	
6. AMPL4T [American plaice Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F	
7. AMPL4VWX [American plaice Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F	
8. AMPL5YZ [American plaice Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
9. ARFLOUNDBSAI [Arrowtooth flounder Bering Sea and Aleutian Is-lands]	TB SSB	ER F	TB SSB	ER F	
10. ARFLOUNDGA [Arrowtooth flounder Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F	
11. ARFLOUNDP coast [Arrowtooth flounder Pacific Coast]	TB SSB	ER F	TB SSB	ER F	
12. ATHAL3NOPs4VWX5Zc [Atlantic halibut Scotian Shelf and Southern Grand Banks]	TB SSB	ER F	TB SSB	ER F	
13. ATHAL4RST [Atlantic halibut Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F	
14. ATHAL5YZ [Atlantic halibut Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
15. BFLOUN27-2932 [Baltic flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F	
16. BRILL2232 [Brill Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
17. BRILLIIIa-IV-VIIdc [Brill ICES 3a-4-7de]	TB SSB	ER F	TB SSB	ER F	
18. DAB2232 [Dab Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
19. DABIIIa-IV [Dab ICES 3a-4]	TB SSB	ER F	TB SSB	ER F	
20. DSOLEGA [Dover sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F	
21. DSOLEP coast [Dover sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F	
22. ESOLEASASC [East coast sole South Africa South coast]	TB SSB	ER F	TB SSB	ER F	
23. EFLOUN2223 [European flounder Subdivisions 22-23]	TB SSB	ER F	TB SSB	ER F	
24. EFLOUN2425 [European flounder Subdivisions 24-25]	TB SSB	ER F	TB SSB	ER F	
25. EFLOUN26-28 [European flounder Subdivisions 26-28]	TB SSB	ER F	TB SSB	ER F	
26. EFLOUN27-2932 [European flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F	
27. EFLOUNIIIa-IV [European flounder ICES 3a-4]	TB SSB	ER F	TB SSB	ER F	
28. ESOLEHS [English sole Hecate Strait]	TB SSB	ER F	TB SSB	ER F	
29. ESOLEP coast [English sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F	
30. FHFLOUNSOJ [Flathead flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F	
31. FLSOLEBSAI [Flathead sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F	
32. FLSOLEGA [Flathead sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F	
33. FMEG8c9a [Fourspotted megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F	
34. FMEGVIIb-k_VIIIabdc [Fourspotted megrim ICES 7b-k_8abdc]	TB SSB	ER F	TB SSB	ER F	
35. GHAL01ABCDEF [Greenland halibut NAFO divisions 01ABCDEF]	TB SSB	ER F	TB SSB	ER F	
36. GHAL23KLMNO [Greenland halibut Labrador Shelf - Grand Banks]	TB SSB	ER F	TB SSB	ER F	
37. GHAL4RST [Greenland halibut Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F	

38. GHALBSAI [Greenland halibut Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
39. GHALNEAR [Greenland halibut North-East Arctic]	TB SSB	ER F	TB SSB	ER F
40. GHALV-VI-XII-XIV [Greenland halibut ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
41. KMFLOUNBSAI [Kamchatka flounder Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
42. LSOLEIIIIa-IV-VIId [Lemon sole ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
43. MEG8c9a [Megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
44. MEGSPPIVa-VIa [Megrim spp ICES 4a-6a]	TB SSB	ER F	TB SSB	ER F
45. MEGSPPVib [Megrim spp Rockall Bank]	TB SSB	ER F	TB SSB	ER F
46. MEGVII-VIIIabd [Megrim ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F
47. NRSOLEEBSAI [Northern rock sole Eastern Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
48. NRSOLEGA [Northern rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
49. OFLOUNECS [Japanese flounder East China Sea]	TB SSB	ER F	TB SSB	ER F
50. OFLOUNNSJ [Japanese flounder Sea of Japan North]	TB SSB	ER F	TB SSB	ER F
51. OFLOUNPAC [Japanese flounder Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
52. OFLOUNSETO [Japanese flounder Inland Sea of Japan]	TB SSB	ER F	TB SSB	ER F
53. PHALNPAC [Pacific halibut North Pacific]	TB SSB	ER F	TB SSB	ER F
54. PHFLOUNNHOKK [Pointhead flounder North coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
55. PHFLOUNSOJ [Pointhead flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
56. PLAIC2123 [European plaice Subdivisions 21-23]	TB SSB	ER F	TB SSB	ER F
57. PLAIC2432 [European plaice Subdivisions 24-32]	TB SSB	ER F	TB SSB	ER F
58. PLAIC7d [European plaice Eastern English Channel]	TB SSB	ER F	TB SSB	ER F
59. PLAICCELT [European plaice Celtic Sea]	TB SSB	ER F	TB SSB	ER F
60. PLAICECHW [European plaice Western English Channel]	TB SSB	ER F	TB SSB	ER F
61. PLAICIS [European plaice Irish Sea]	TB SSB	ER F	TB SSB	ER F
62. PLAICNS [European plaice North Sea]	TB SSB	ER F	TB SSB	ER F
63. PLAICVIIbc [European plaice ICES 7bc]	TB SSB	ER F	TB SSB	ER F
64. PLAICVIIh-k [European plaice ICES 7h-k]	TB SSB	ER F	TB SSB	ER F
65. PLAICVIII-IXa [European plaice ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
66. PSOLEPCOAST [Petrale sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
67. REXSOLEGA [Rex sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
68. REXSOLEPCOAST [Rex sole Pacific Coast]	TB SSB	ER F	TB SSB	ER F
69. RSFLOUNSOJ [Round nose flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
70. RSOLE5AB [Rock sole Queen Charlotte Sound]	TB SSB	ER F	TB SSB	ER F
71. RSOLEGA [Rock sole Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
72. RSOLEHSTR [Rock sole Hecate Strait]	TB SSB	ER F	TB SSB	ER F
73. RSSOLENPAC [Roughscale sole North Pacific]	TB SSB	ER F	TB SSB	ER F
74. SFLOUNMATLC [Summer flounder Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
75. SOLECS [Common sole Celtic Sea]	TB SSB	ER F	TB SSB	ER F
76. SOLECWAAGO [Sole Central West Africa Angola]	TB SSB	ER F	TB SSB	ER F
77. SOLECWAGAB-COD [Sole Central West Africa Gabon-Congo DR]	TB SSB	ER F	TB SSB	ER F
78. SOLECWAGNB-GIN [Sole Central West Africa Guinea Bissau-Guinea]	TB SSB	ER F	TB SSB	ER F
79. SOLEIIIIa-2224 [Common sole ICES 22-24-3a]	TB SSB	ER F	TB SSB	ER F
80. SOLEIS [Common sole Irish Sea]	TB SSB	ER F	TB SSB	ER F
81. SOLENS [Common sole North Sea]	TB SSB	ER F	TB SSB	ER F
82. SOLEVIIbc [Common sole ICES 7bc]	TB SSB	ER F	TB SSB	ER F
83. SOLEVIId [Common sole Eastern English Channel]	TB SSB	ER F	TB SSB	ER F

84. SOLEVIle [Common sole Western English Channel]	TB SSB	ER F	TB SSB	ER F
85. SOLEVIIh-k [Common sole ICES 7h-k]	TB SSB	ER F	TB SSB	ER F
86. SOLEVIIIab [Common sole ICES 8ab]	TB SSB	ER F	TB SSB	ER F
87. SOLEVIIIc-IXa [Common sole ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
88. SOLMEDGSA17 [Common sole Northern Adriatic Sea]	TB SSB	ER F	TB SSB	ER F
89. SOLMEDGSA7 [Common sole Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
90. STFLOUNNP COAST [Starry flounder Northern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
91. STFLOUNSP COAST [Starry flounder Southern Pacific Coast]	TB SSB	ER F	TB SSB	ER F
92. TUR2232 [Turbot Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
93. TURBLKGSA29 [Turbot Black Sea]	TB SSB	ER F	TB SSB	ER F
94. TURIIla [Turbot Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
95. TURIV [Turbot North Sea]	TB SSB	ER F	TB SSB	ER F
96. WINDOWGOMGB [Windowpane flounder Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
97. WINDOWSNEMATL [Windowpane flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F
98. WINFLOUN4T [Winter flounder Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
99. WINFLOUN5Z [Winter flounder Georges Bank]	TB SSB	ER F	TB SSB	ER F
100. WINFLOUN5Y [Winter flounder Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
101. WINFLOUNSNEMATL [Winter flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F
102. WITFLOUN2J3KL [Witch flounder Southern Labrador-Eastern Newfoundland]	TB SSB	ER F	TB SSB	ER F
103. WITFLOUN3Ps [Witch flounder St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
104. WITFLOUN4RST [Witch flounder Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
105. WITFLOUN5Y [Witch flounder Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
106. WITFLOUNIIla-IV-VIId [Witch flounder ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
107. WLFLOUNNPAC [Willow flounder North Pacific]	TB SSB	ER F	TB SSB	ER F
108. YELL3LNO [Yellowtail flounder Grand Banks]	TB SSB	ER F	TB SSB	ER F
109. YELL4T [Yellowtail flounder Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
110. YELLCCODGOM [Yellowtail flounder Cape Cod / Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
111. YELLGB [Yellowtail flounder Georges Bank]	TB SSB	ER F	TB SSB	ER F
112. YELLSNEMATL [Yellowtail flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F
113. YSFLOUNNHOKK [Yellow striped flounder North coast of Hokkaido]	TB SSB	ER F	TB SSB	ER F
114. YSFLOUNSOJ [Yellow striped flounder Sea of Japan]	TB SSB	ER F	TB SSB	ER F
115. YSOLEBSAI [Yellowfin sole Bering Sea and Aleutian Islands]	TB SSB	ER F	TB SSB	ER F

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

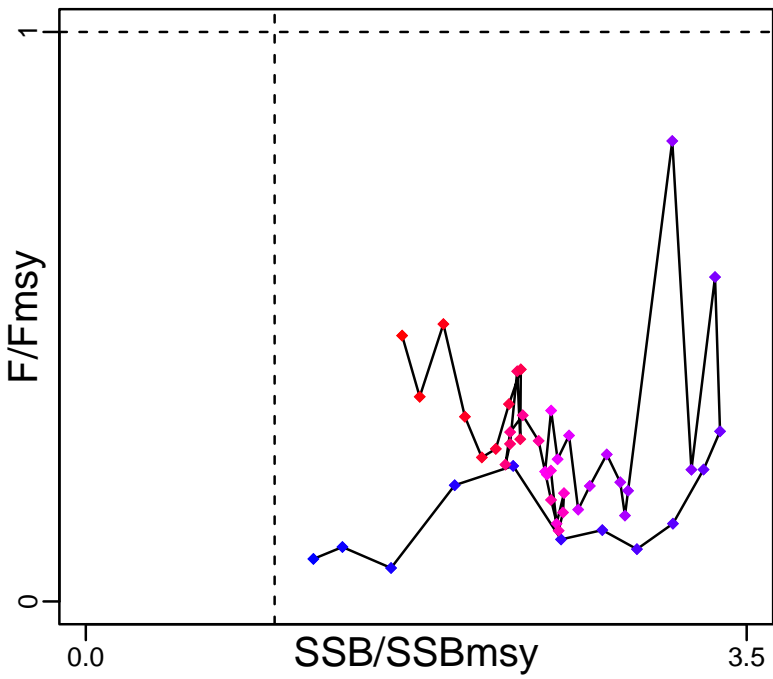
Metadata	
Scientific Name	Pleuronectes quadrituberculatus
Current Assess ID	AFSC-ALPLAICBSAI-1974-2021-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2021,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

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

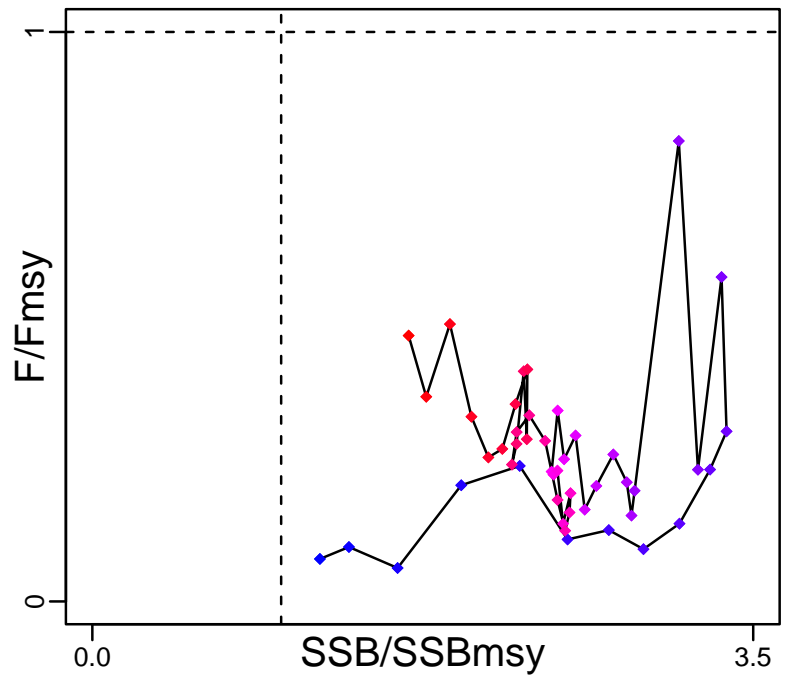
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	485,000	Both	1+
SSB	SSB-MT	2021	158,325	Females	-
TN	-	-	-	-	-
R	R-E00	2021	412,768	-	1
F	F-1/yr	2021	0.079	-	-
ER	ER-calc-ratio	2015	0.04	-	-
TC	TC-MT	2021	20,078		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.578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

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

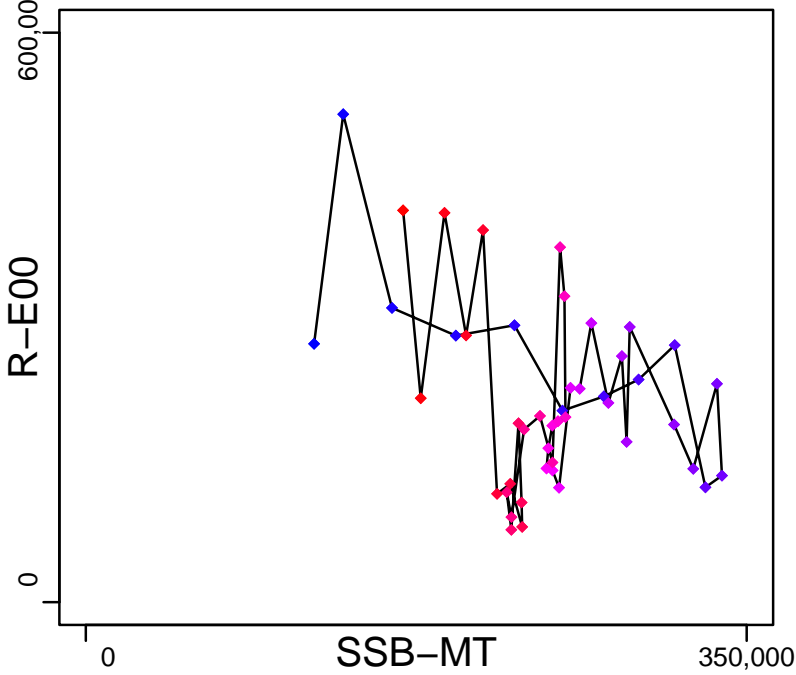
Kobe MSYpref (1974–2021–SISIMP2022)



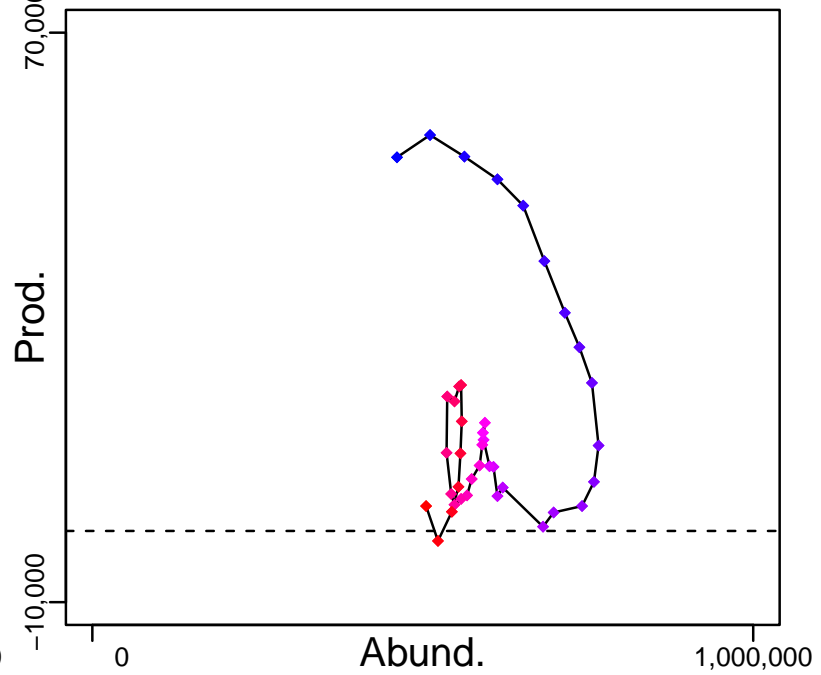
Kobe MGTpref (1974–2021–SISIMP2022)



Spawner Recruit (1974–2021–SISIMP2022)



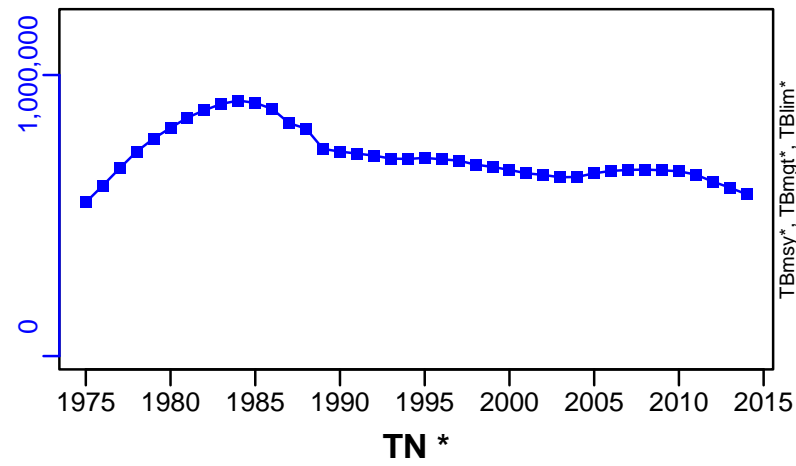
Production (1975–2015–SISIMP2016)



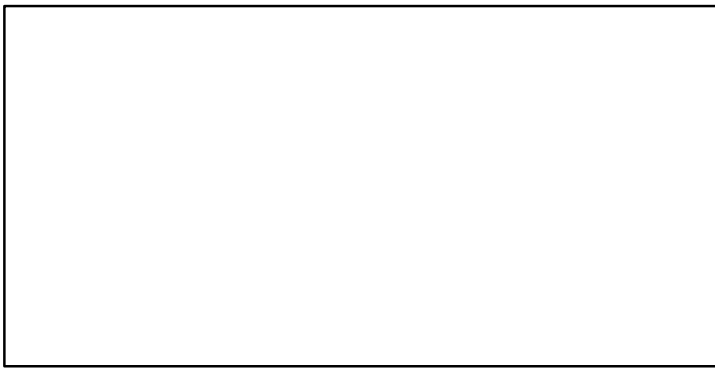
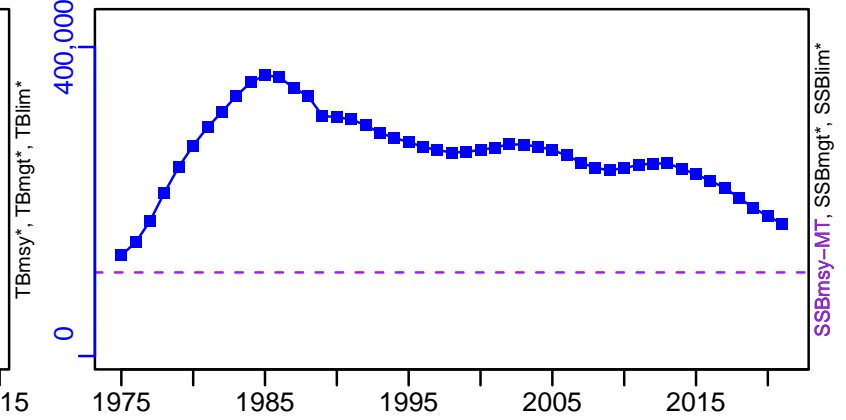
◆ Start Year ◆ End Year * No Data

Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

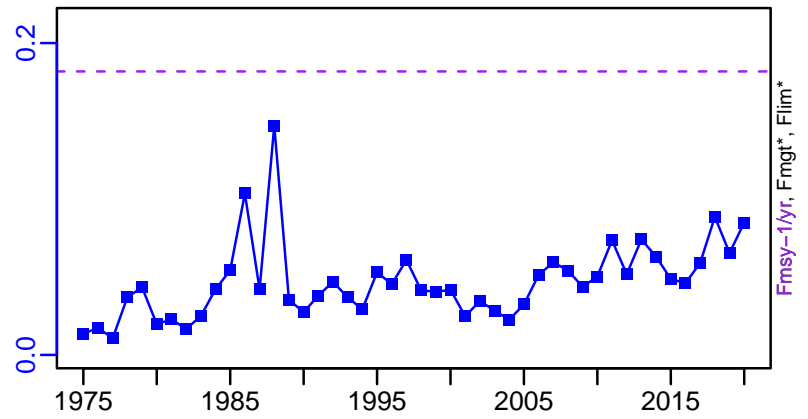
TB-MT (1975–2015–SISIMP2016)



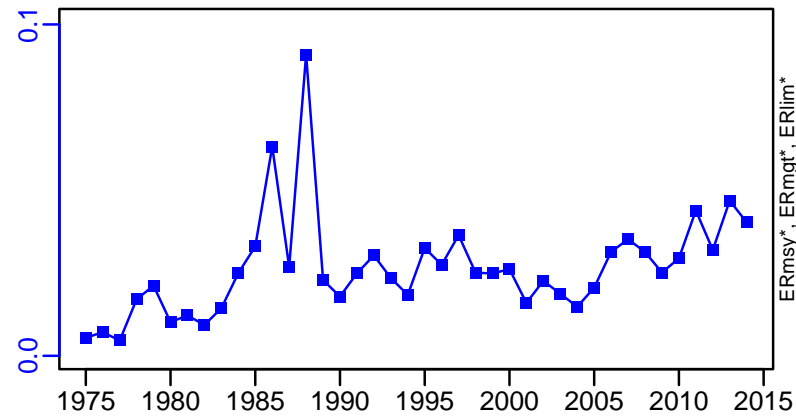
SSB-MT (1974–2021–SISIMP2022)



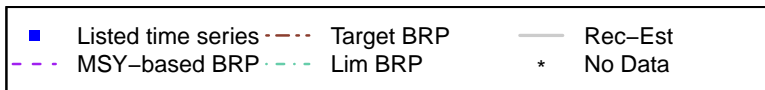
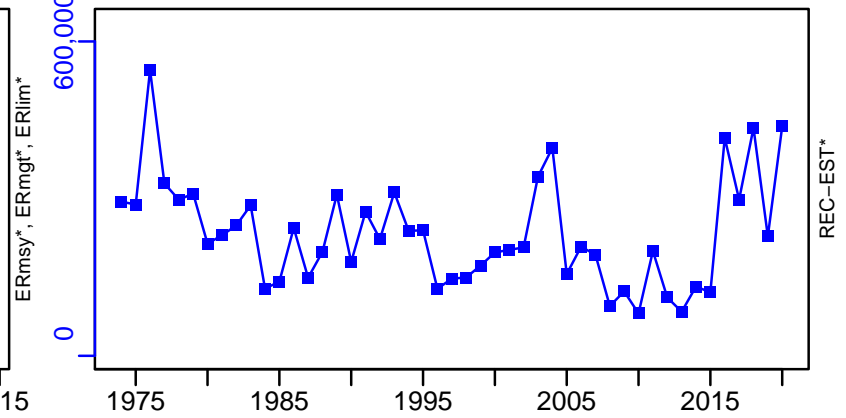
F-1/yr (1974–2021–SISIMP2022)



ER-calc-ratio (1975–2015–SISIMP2016)

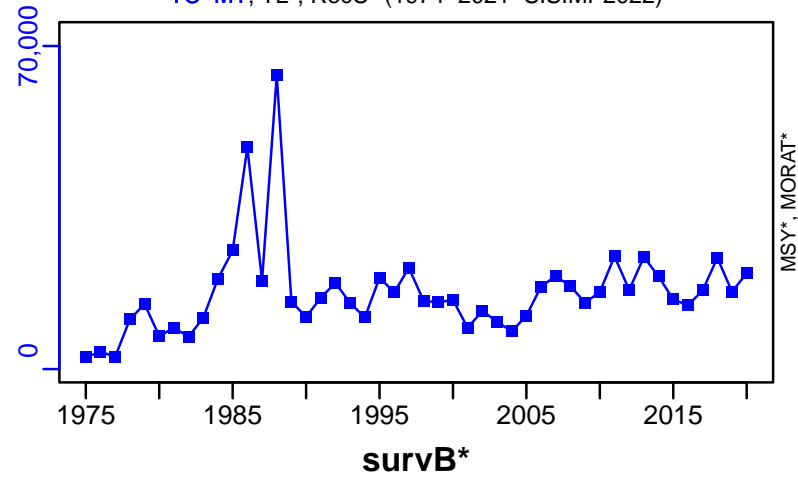


R-E00 (1974–2021–SISIMP2022)



Alaska plaice Bering Sea and Aleutian Islands [ALPLAICBSAI]

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



TAC*, Cpair*, Cadv*



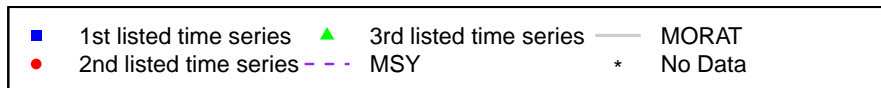
CPUE*



EFFORT*



CdivMSY*



American plaice Labrador - NE Newfoundland [AMPL23K]

Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	DFO-AMPL23K-1960-2012-WATSON
Area	Labrador - NE Newfoundland
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012, 2004

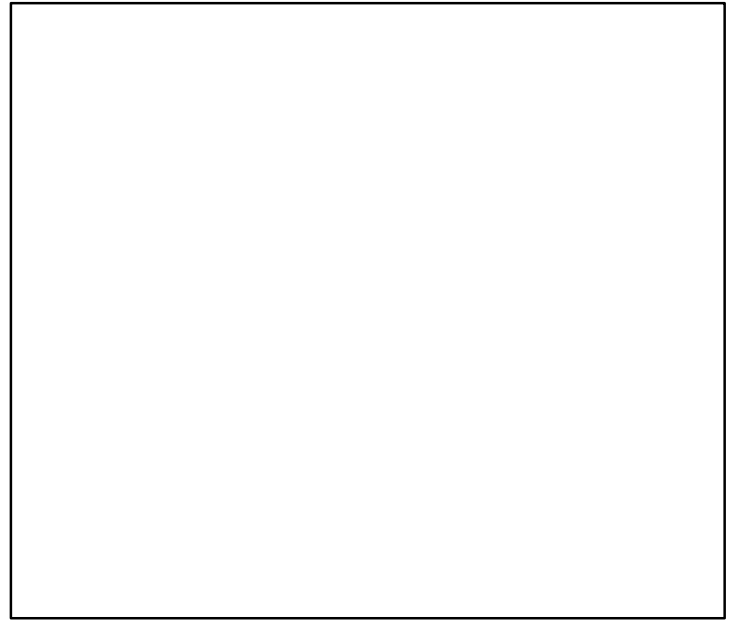
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	29,000	Both	-
SSB	SSB-MT	2004	3620	Females	-
TN	TN-E00	2012	2.17×10^8	-	-
R	R-E00	2004	3,330,000	-	3+
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.001	-	-
TC	TC-MT	2012	17		
TL	TL-MT	2012	65		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

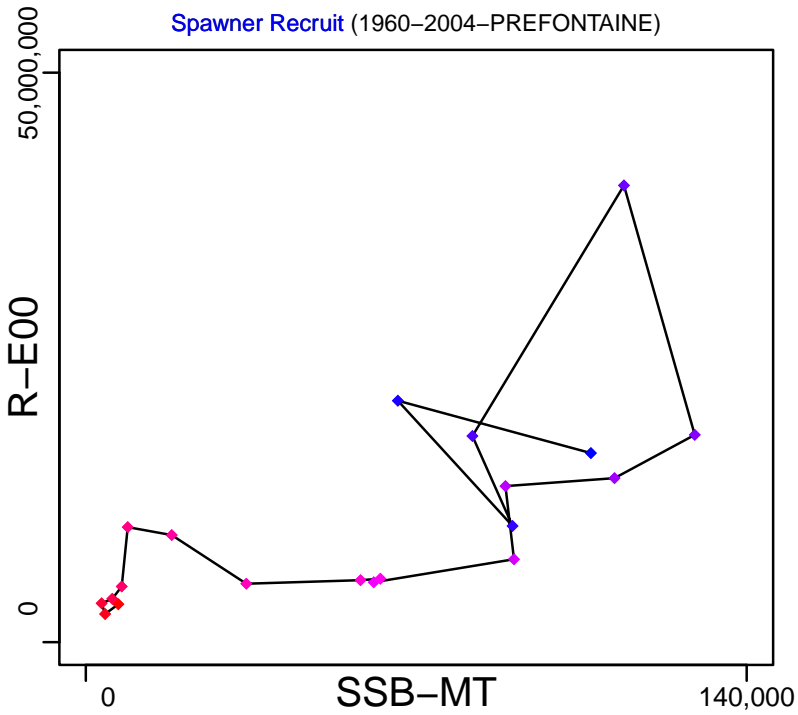
Kobe MSY*



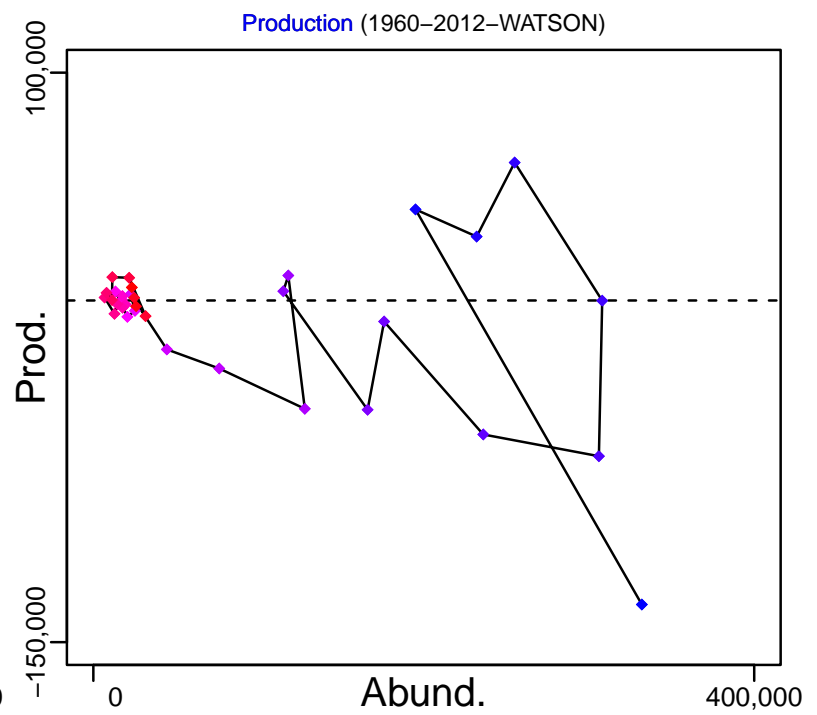
Kobe MGT*



Spawner Recruit (1960–2004–PREFONTAINE)



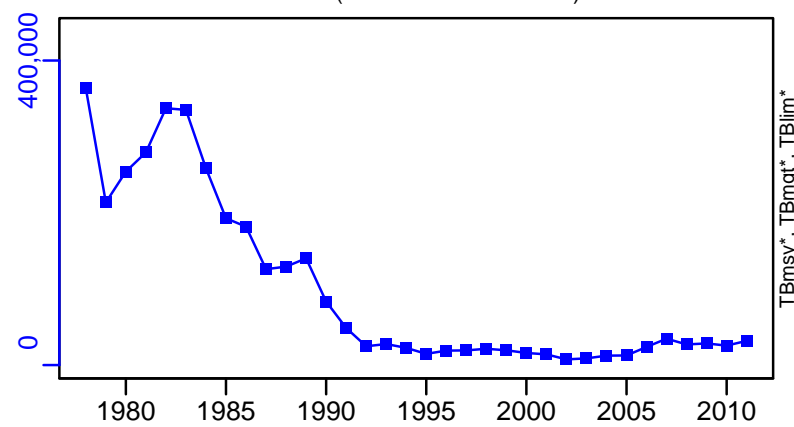
Production (1960–2012–WATSON)



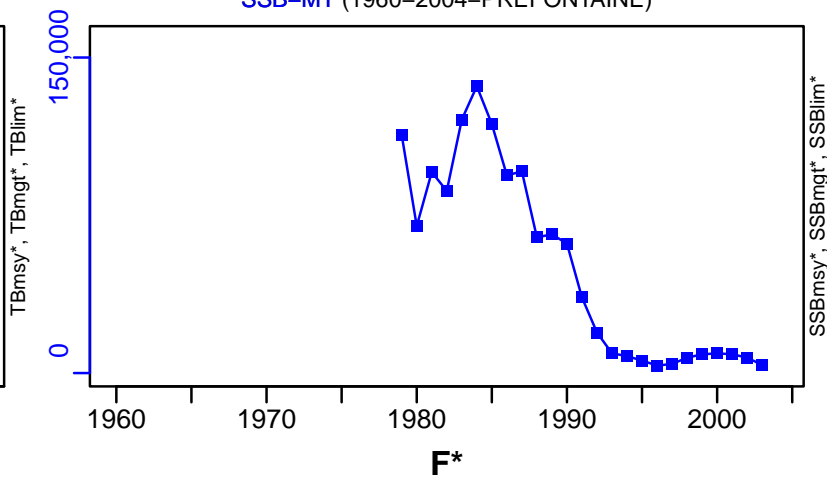
◆ Start Year ◆ End Year * No Data

American plaice Labrador – NE Newfoundland [AMPL23K]

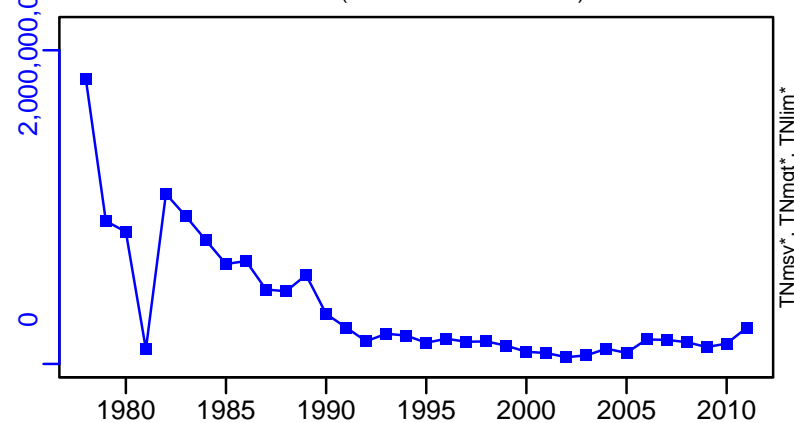
TB-MT (1960–2012–WATSON)



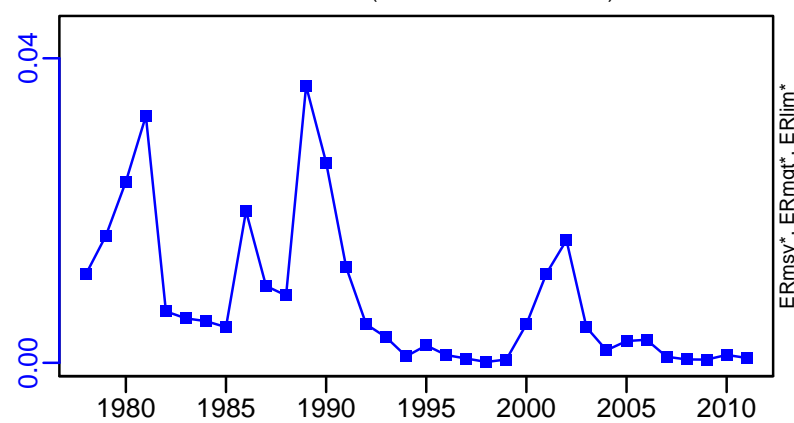
SSB-MT (1960–2004–PREFONTAINE)



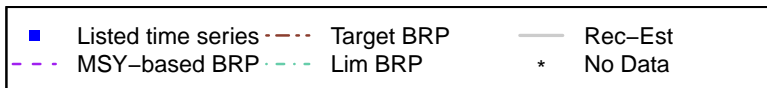
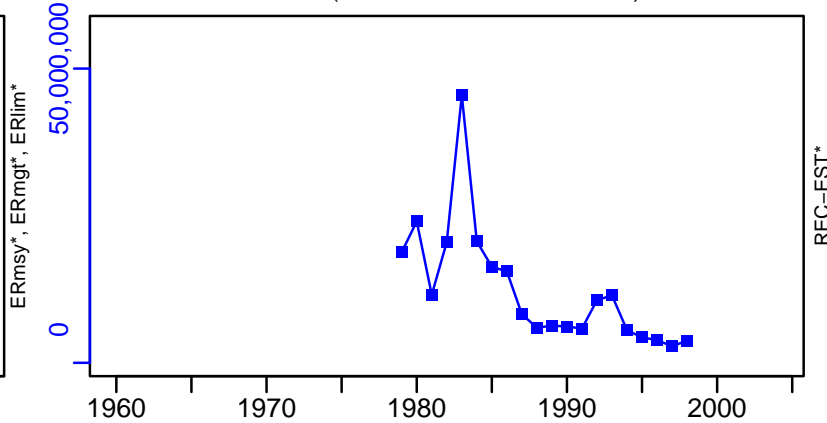
TN-E00 (1960–2012–WATSON)



ER-calc-ratio (1960–2012–WATSON)



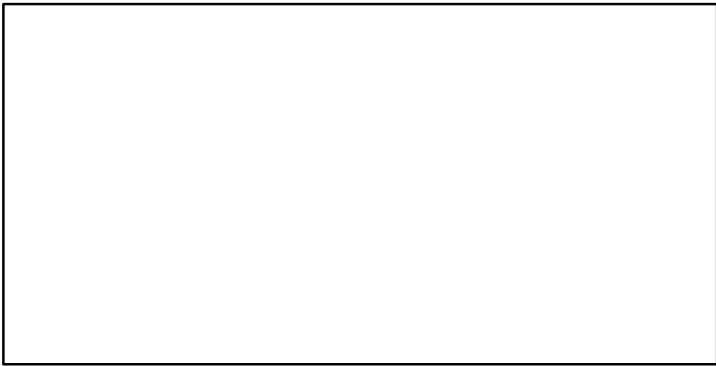
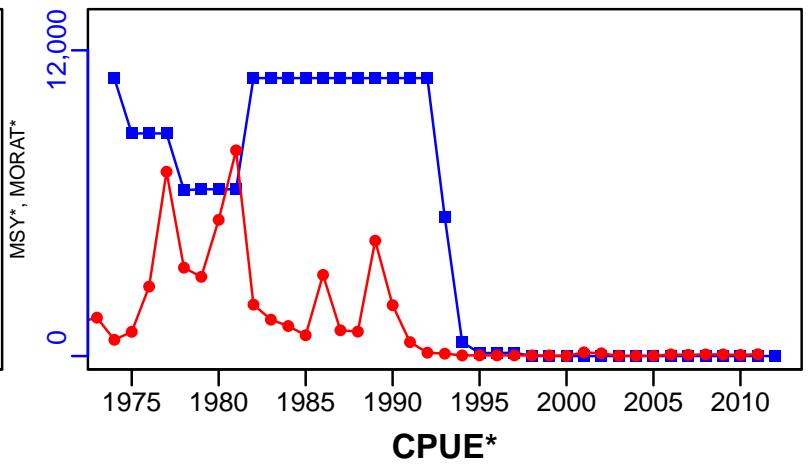
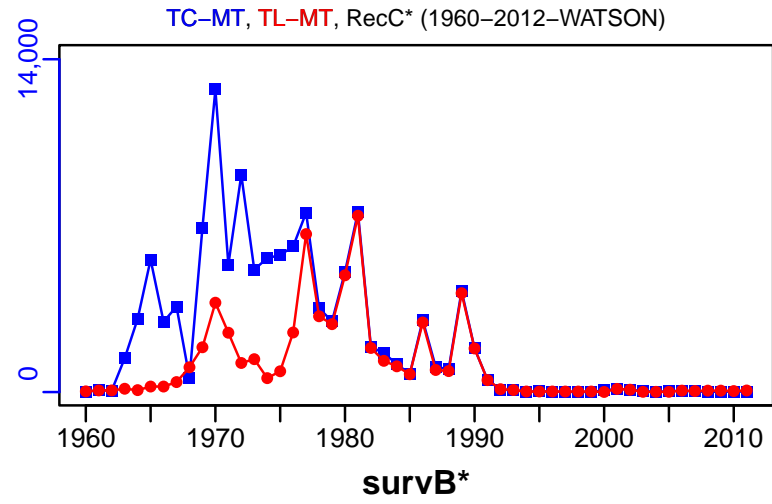
R-E00 (1960–2004–PREFONTAINE)



American plaice Labrador – NE Newfoundland [AMPL23K]

TC-MT, TL-MT, RecC* (1960–2012–WATSON)

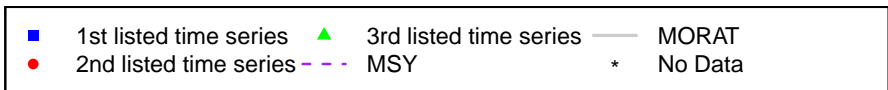
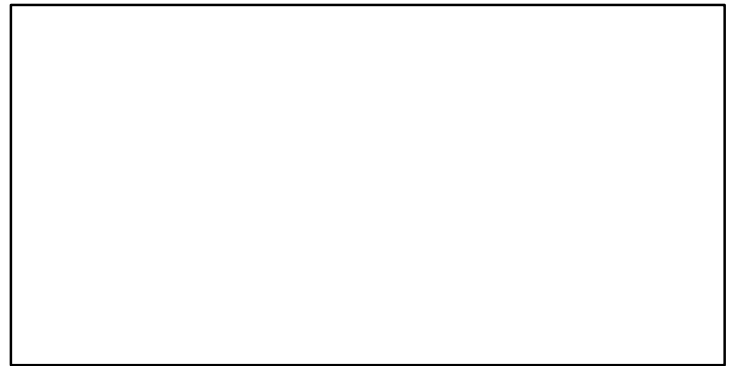
TAC-MT, Cpair-MT, Cadv* (1960–2012–WATSON)



EFFORT*



CdivMSY*



American plaice Grand Banks [AMPL3LNO]

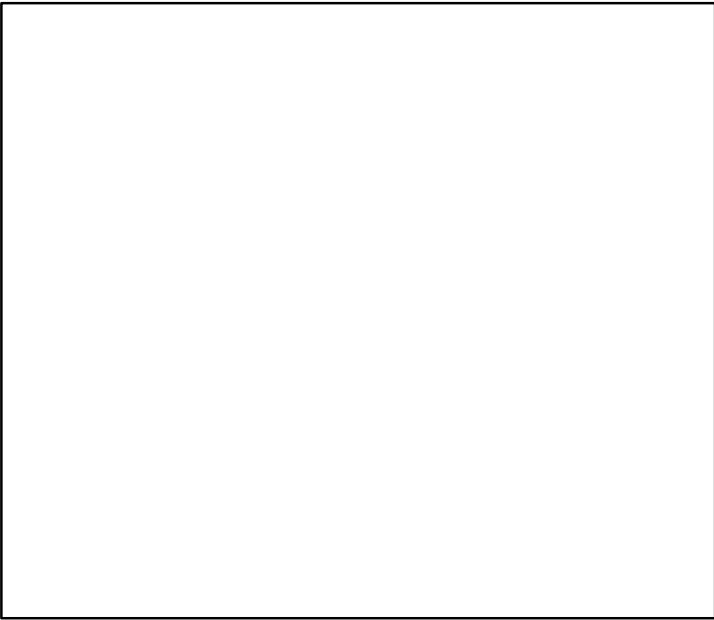
Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	NAFO-SC-AMPL3LNO-1955-2007-BAUM
Area	Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.2
TBlim	TBlim-MT	2007	50,000
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	50,500	-	5+
SSB	SSB-MT	2007	35,500	Both	-
TN	-	-	-	-	-
R	R-E00	2007	33,500,000	-	5
F	F-1/yr	2007	0.193	Both	9 to 14
ER	ER-ratio	2007	0.064	-	-
TC	-	-	-		
TL	TL-MT	2007	2830		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

American plaice Grand Banks [AMPL3LNO]

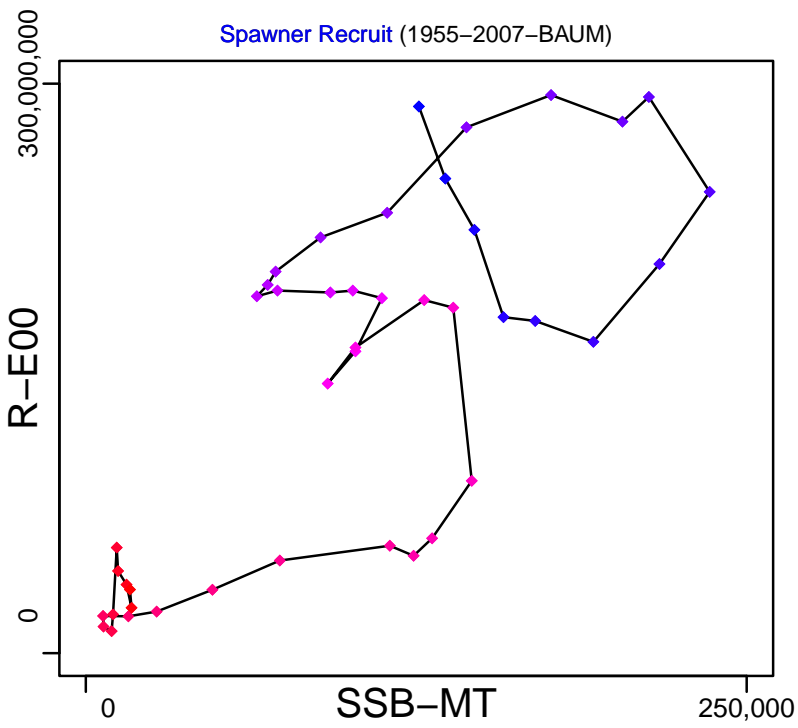
Kobe MSY*



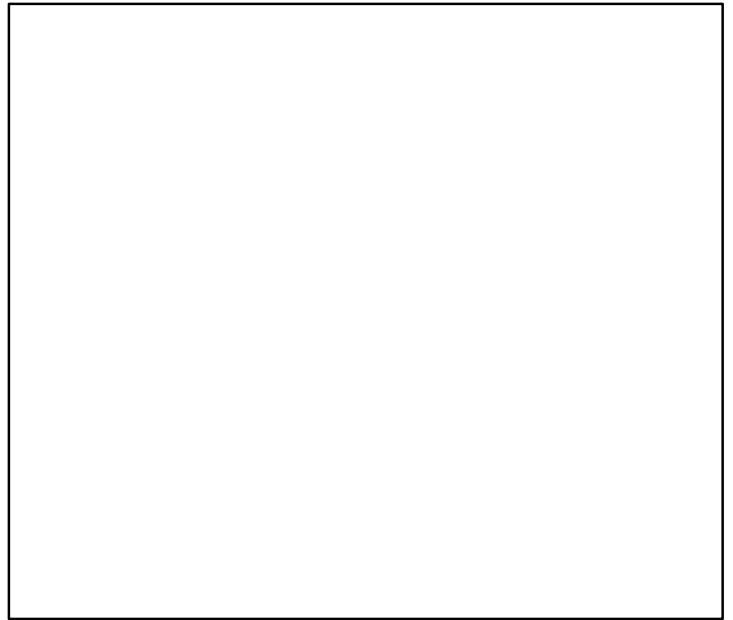
Kobe MGT*



Spawner Recruit (1955–2007–BAUM)



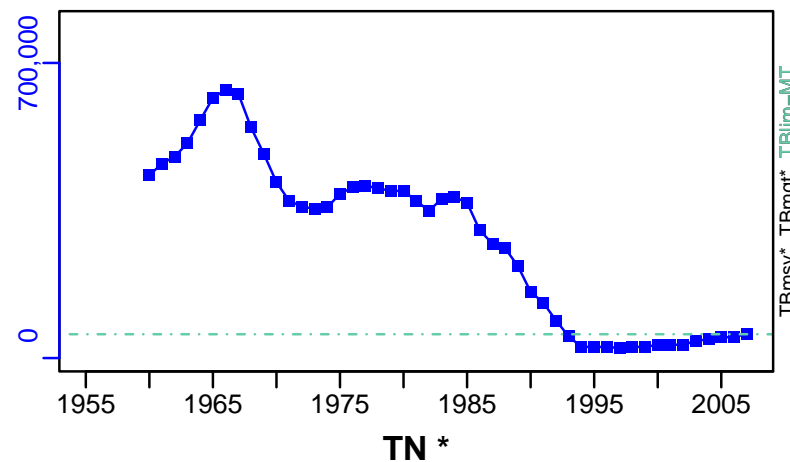
Production*



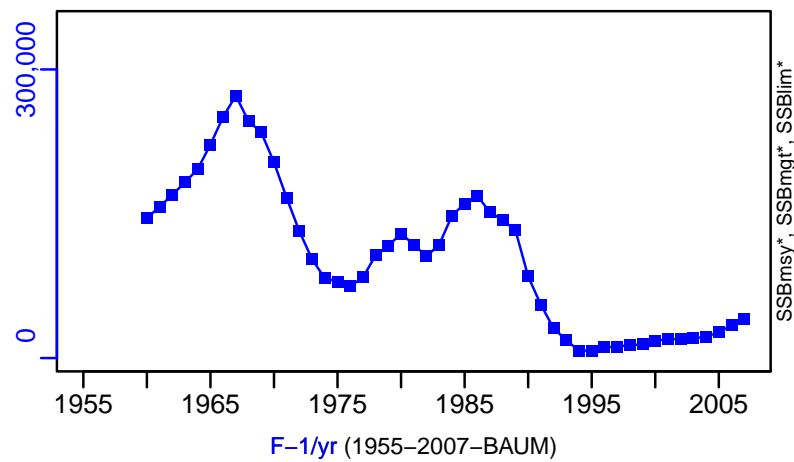
◆ Start Year ◆ End Year * No Data

American plaice Grand Banks [AMPL3LNO]

TB-MT (1955-2007-BAUM)



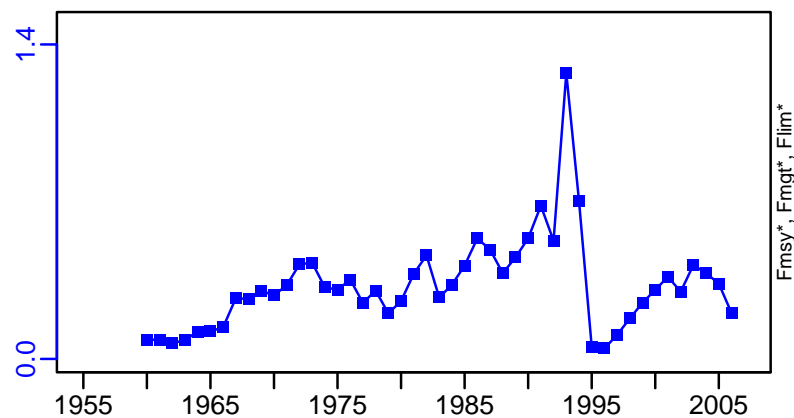
SSB-MT (1955-2007-BAUM)



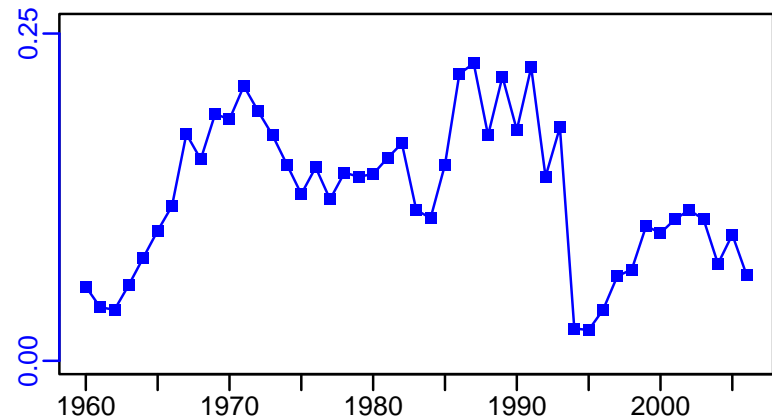
TN *



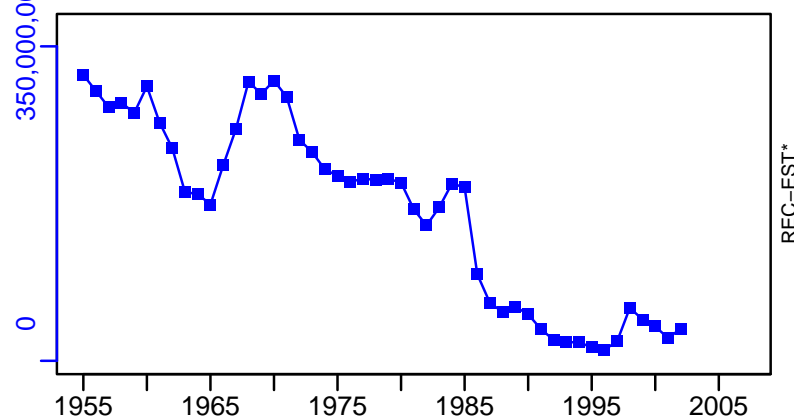
F-1/yr (1955-2007-BAUM)



ER-ratio (1955-2007-BAUM)



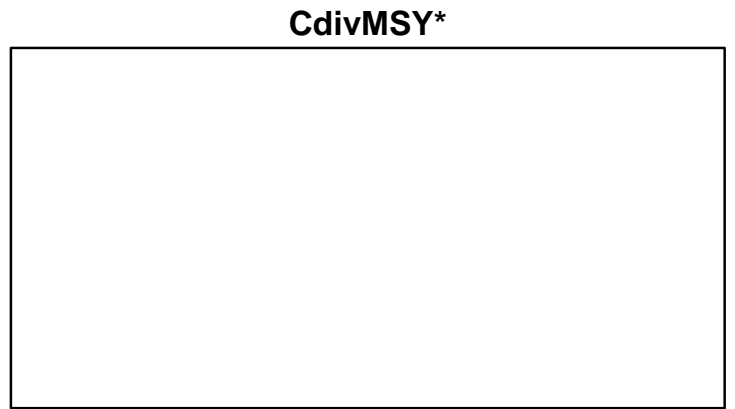
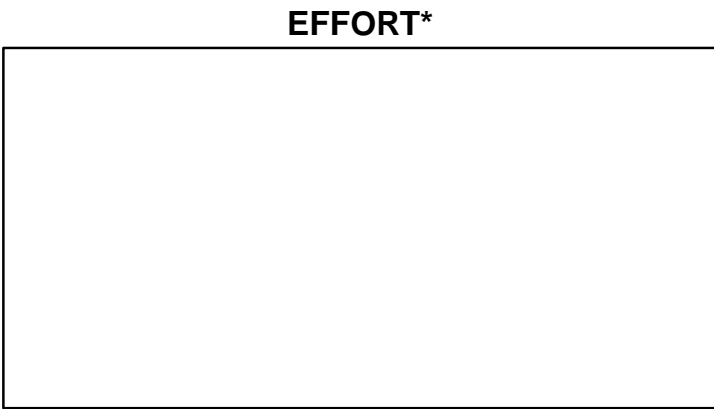
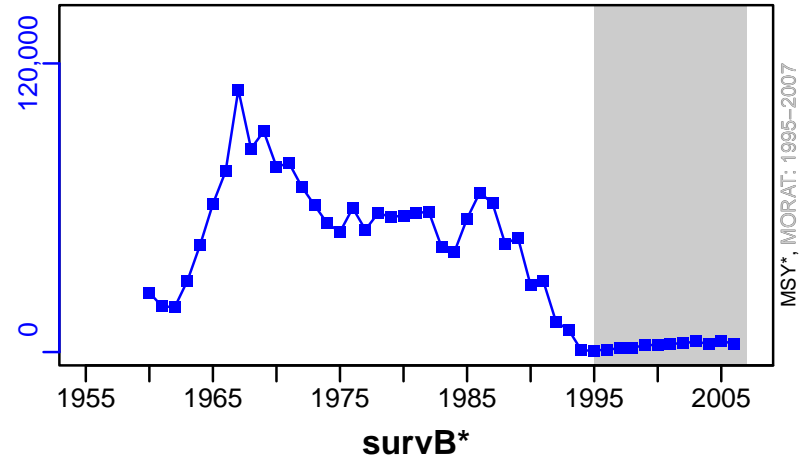
R-E00 (1955-2007-BAUM)



American plaice Grand Banks [AMPL3LNO]

TL-MT, TC*, RecC* (1955-2007-BAUM)

TAC*, Cpair*, Cadv*



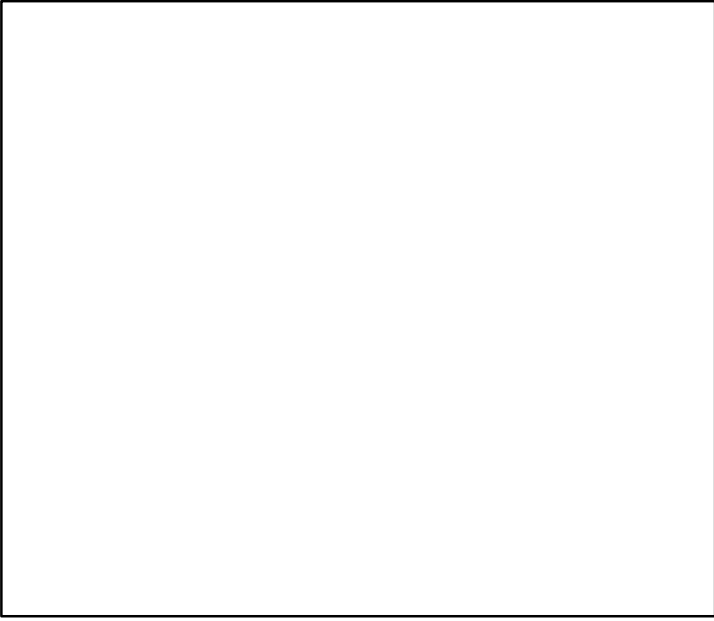
American plaice Flemish Cap [AMPL3M]

Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	NAFO-SC-AMPL3M-1960-2007-BAUM
Area	Flemish Cap
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2007

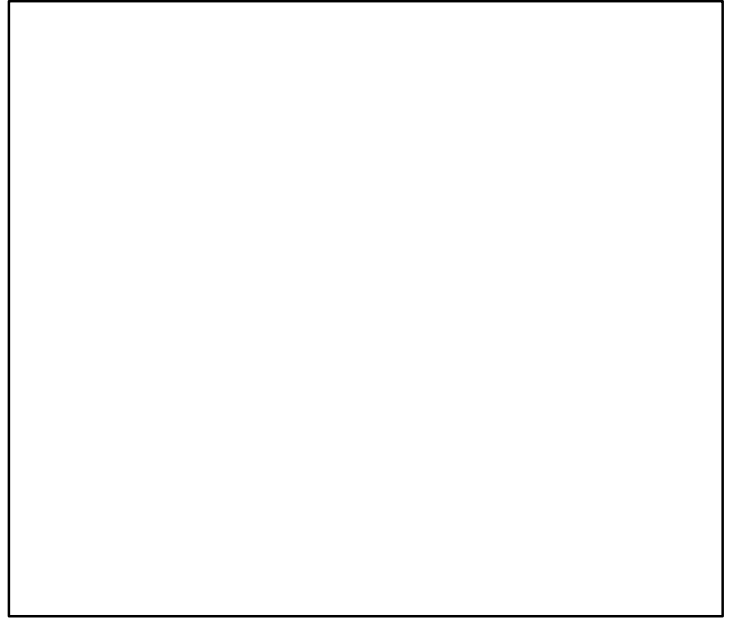
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	1890	-	-
SSB	SSB-MT	2007	1170	Females	5+
TN	-	-	-	-	-
R	R-E00	2007	20,800,000	-	1
F	F-1/yr	2007	0.064	-	3 to 13
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

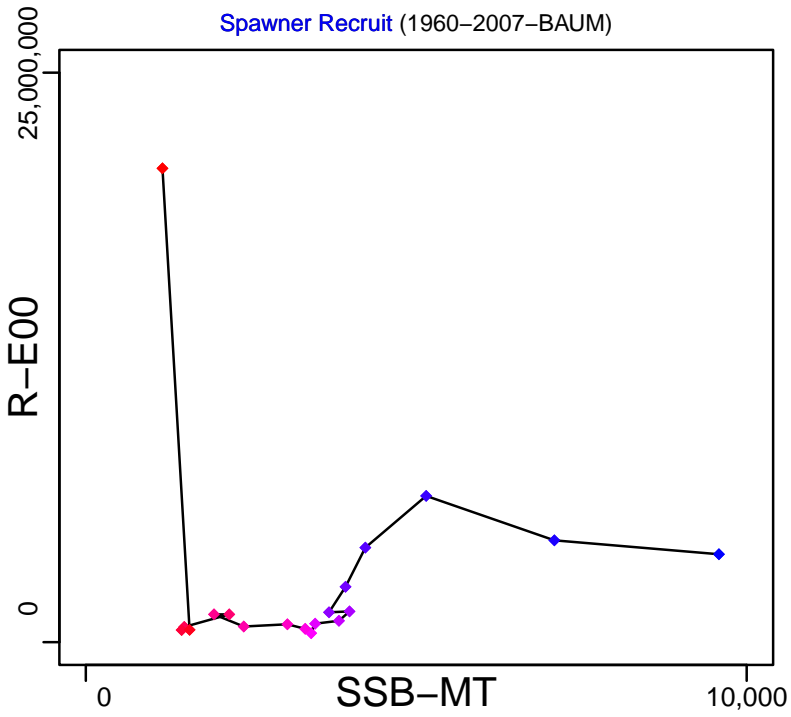
Kobe MSY*



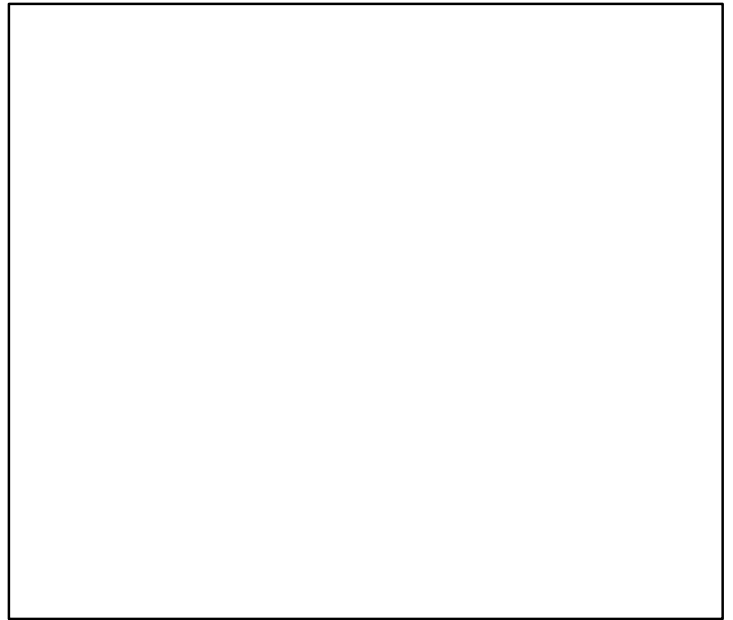
Kobe MGT*



Spawner Recruit (1960–2007–BAUM)



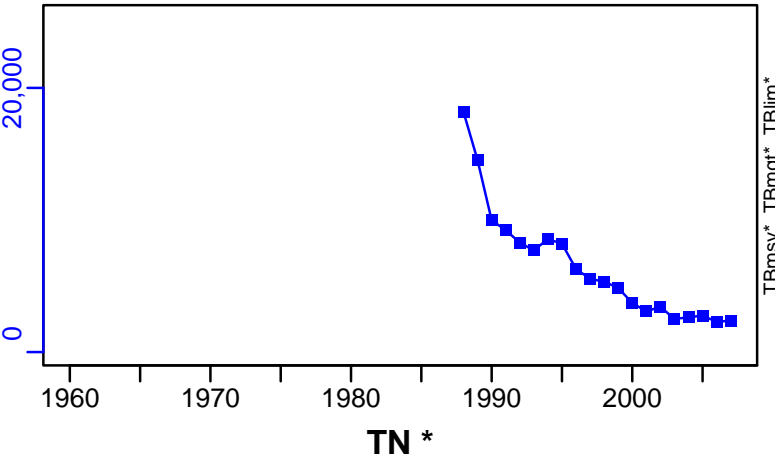
Production*



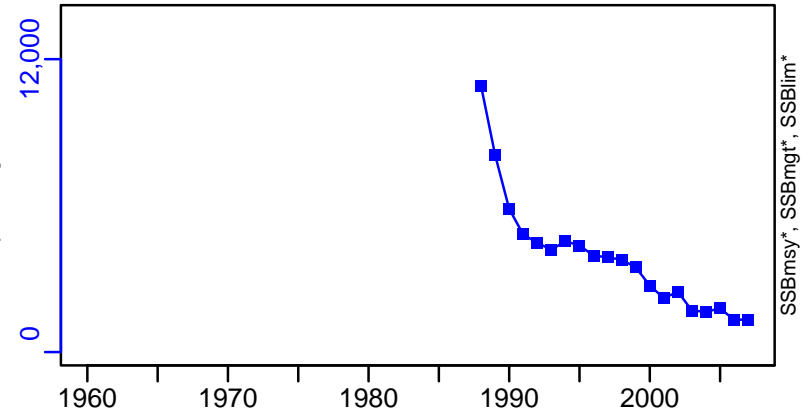
◆ Start Year ◆ End Year * No Data

American plaice Flemish Cap [AMPL3M]

TB-MT (1960–2007–BAUM)



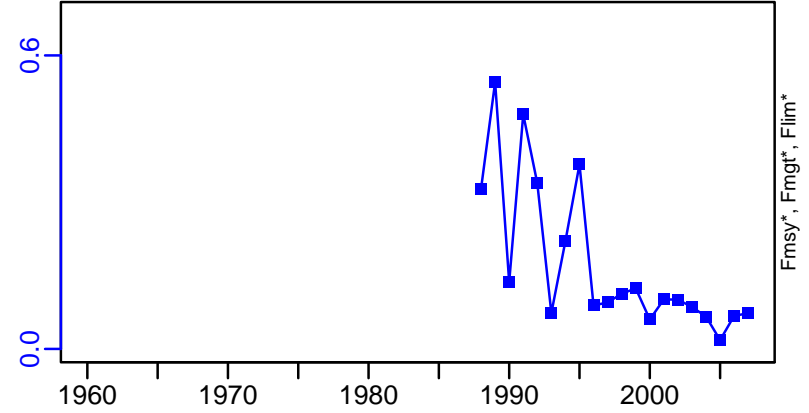
SSB-MT (1960–2007–BAUM)



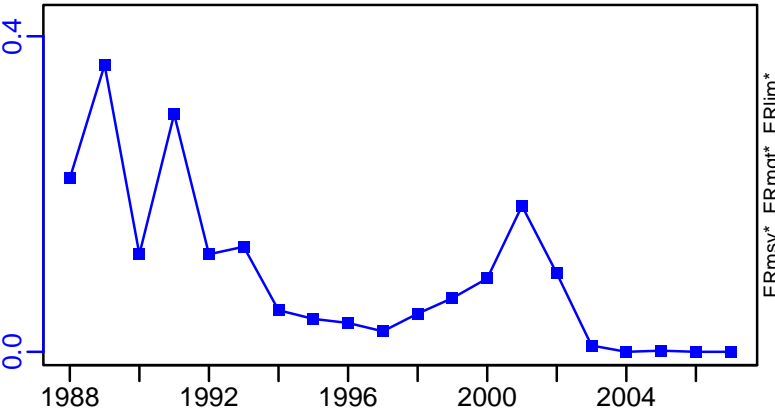
TN *



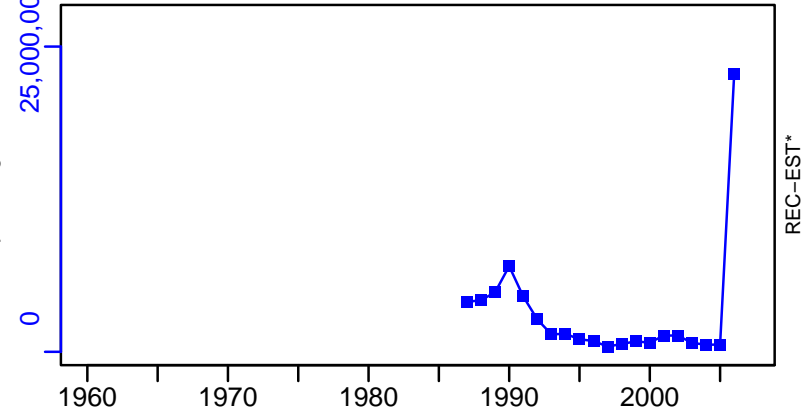
F-1/yr (1960–2007–BAUM)



ER-ratio (1960–2007–BAUM)



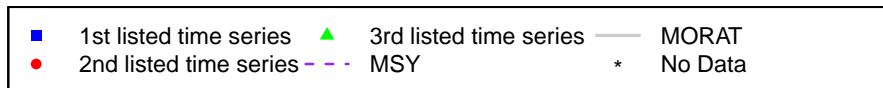
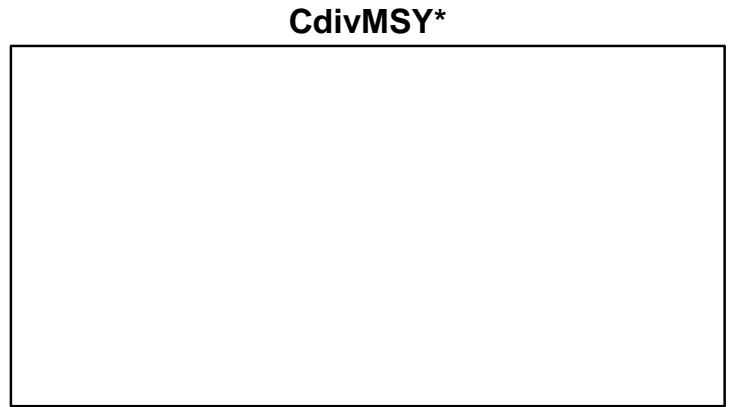
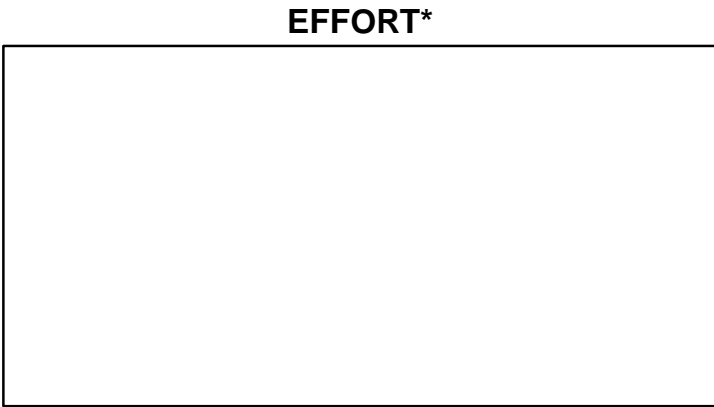
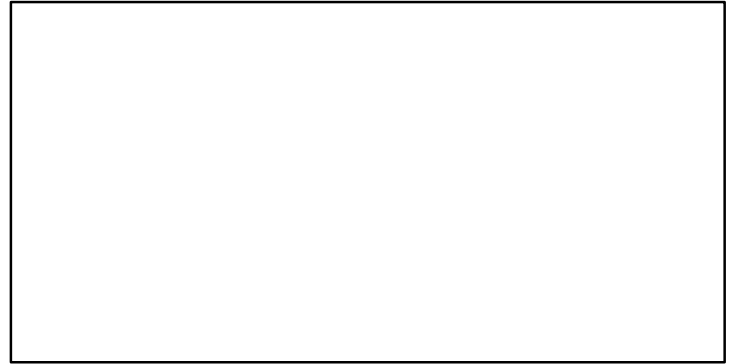
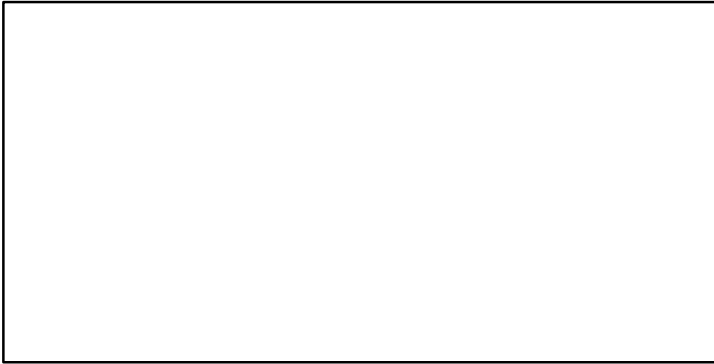
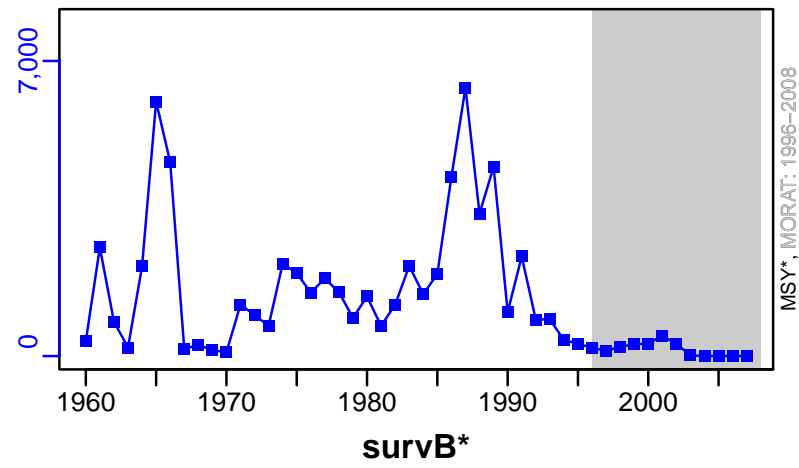
R-E00 (1960–2007–BAUM)



American plaice Flemish Cap [AMPL3M]

TC-MT, TL*, RecC* (1960–2007–BAUM)

TAC*, Cpair*, Cadv*



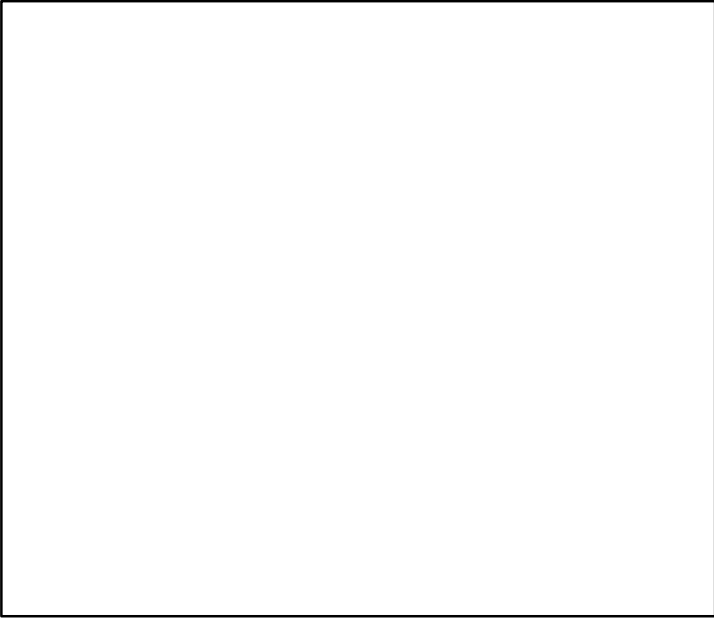
American plaice St. Pierre Bank [AMPL3Ps]

Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	DFO-AMPL3Ps-1960-2013-WATSON
Area	St. Pierre Bank
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013, 2005

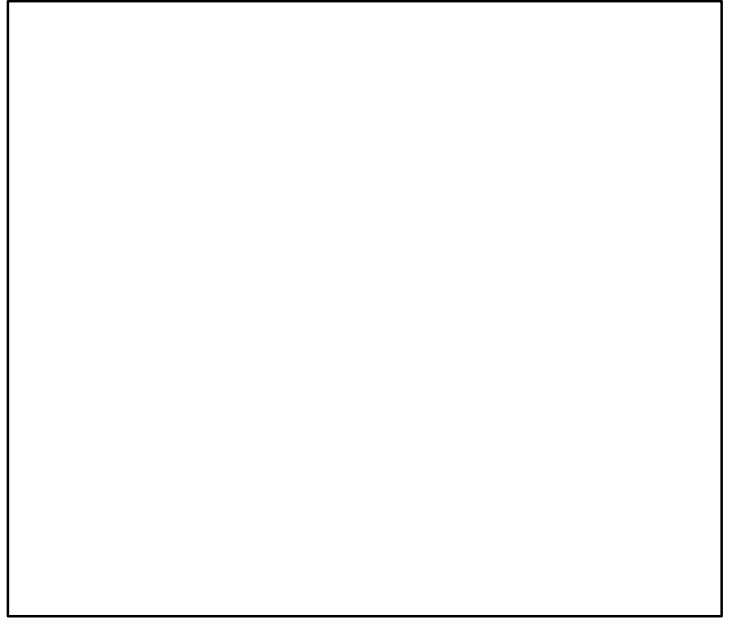
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2013	15	Both	-
SSB	-	-	-	-	-
TN	TN-index	2013	112	-	-
R	R-E00	2005	27,200,000	-	5
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2005	503		
TL	TL-MT	2013	103		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

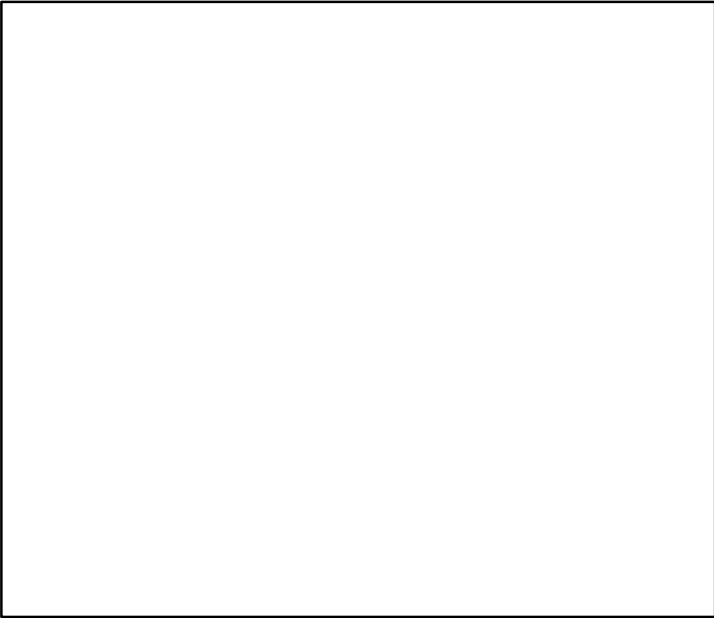
Kobe MSY*



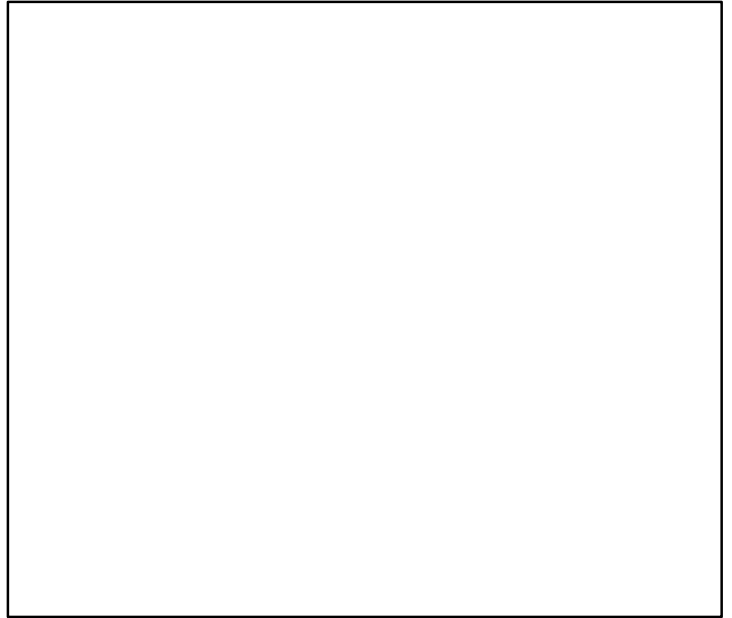
Kobe MGT*



Spawner Recruit*



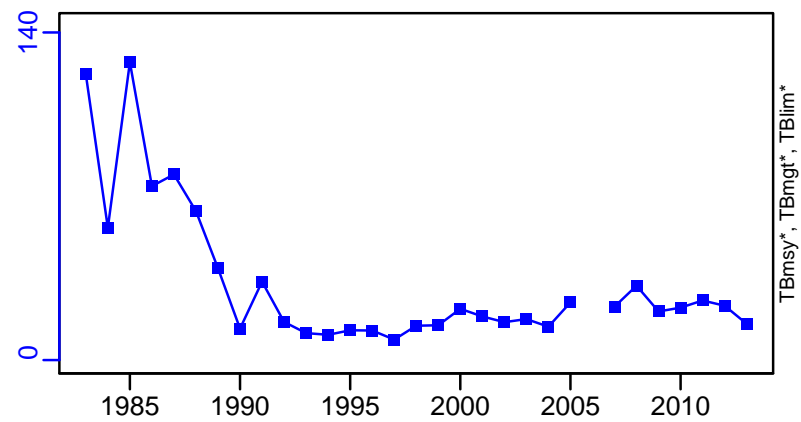
Production*



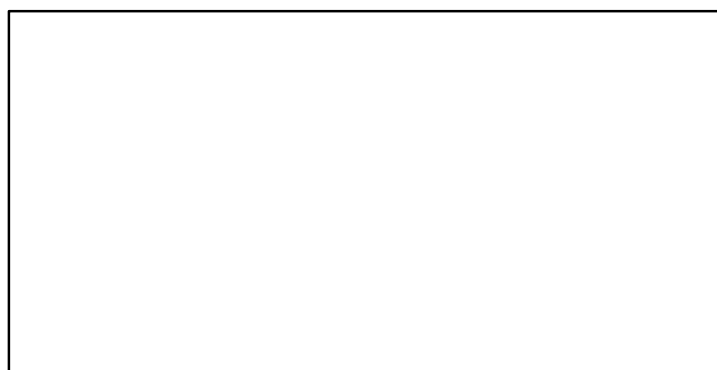
◆ Start Year ◆ End Year * No Data

American plaice St. Pierre Bank [AMPL3Ps]

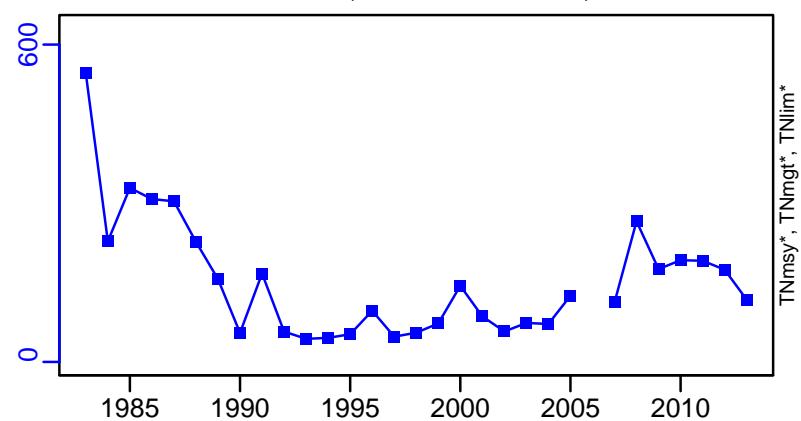
TB-index (1960–2013–WATSON)



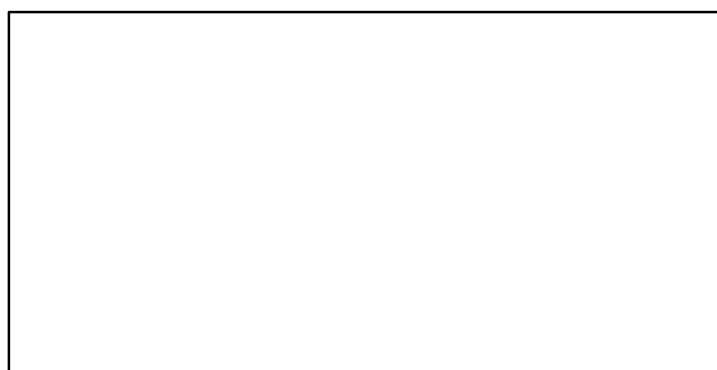
SSB*



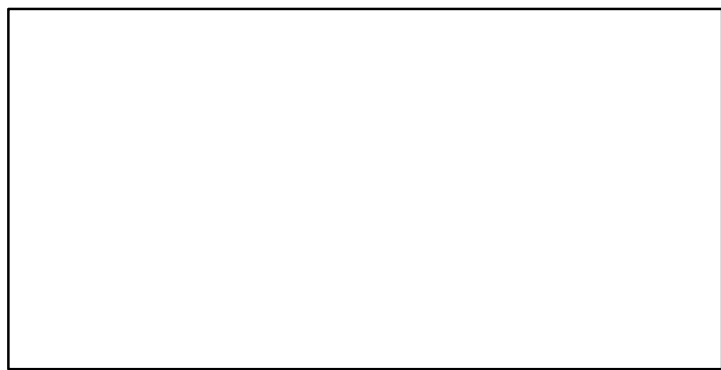
TN-index (1960–2013–WATSON)



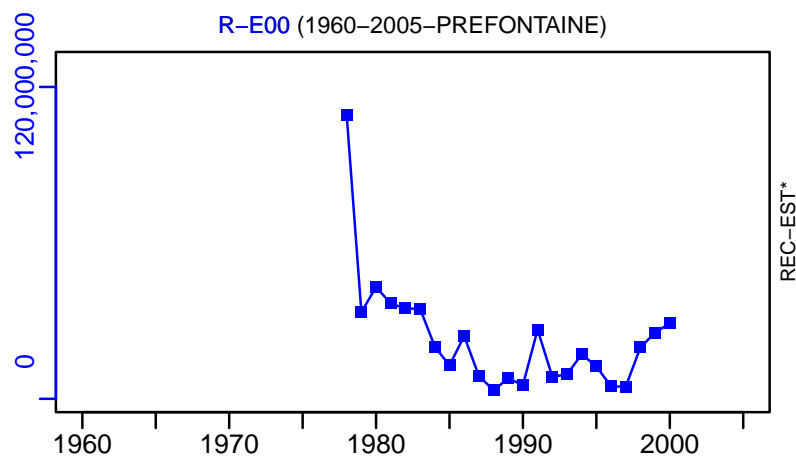
F*



ER*



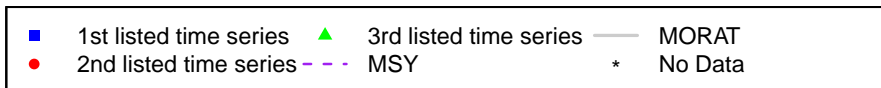
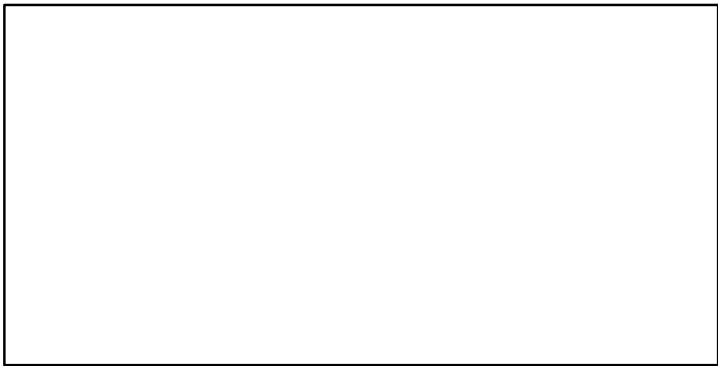
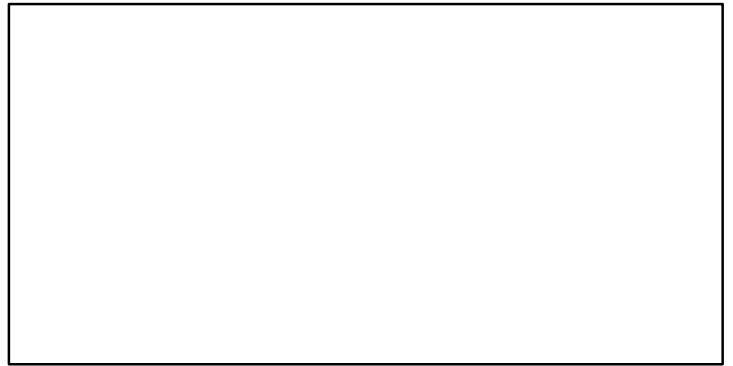
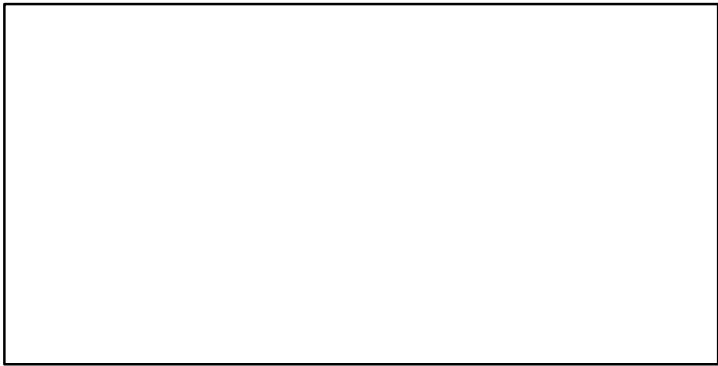
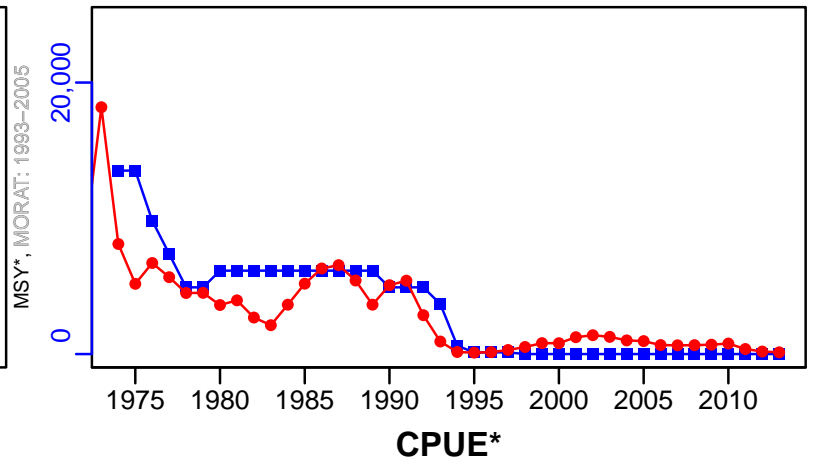
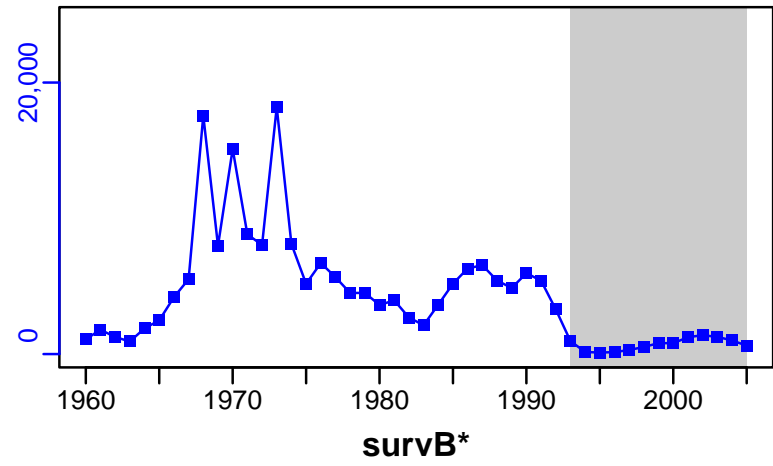
R-E00 (1960–2005–PREFONTAINE)



American plaice St. Pierre Bank [AMPL3Ps]

TC-MT, TL*, RecC* (1960–2005–PREFONTAINE)

TAC-MT, Cpair-MT, Cadv* (1960–2013–WATSON)

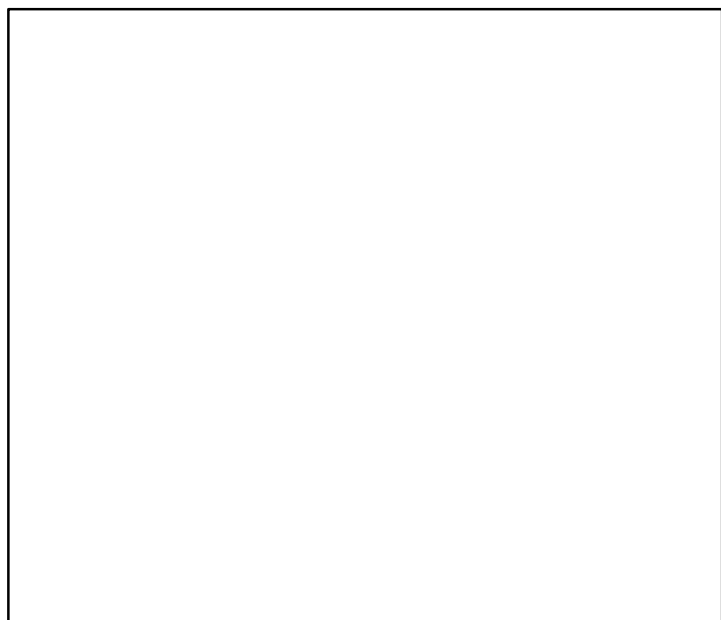


American plaice Southern Gulf of St. Lawrence [AMPL4T]

Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	DFO-SG-AMPL4T-1960-2016-ASHBROOK
Area	Southern Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2016	0.39
TBlim	-	-	-
SSBlim	SSBlim-MT	2012	64,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	48,664	-	-
TN	TN-E00	2012	9.26×10^8	-	4 to 9
R	R-E00	2016	314,261,730	-	4
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	90		
TL	TL-MT	2016	120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*



Spawner Recruit (1960–2016–ASHBROOK)

R-E00

SSB-MT

Production*

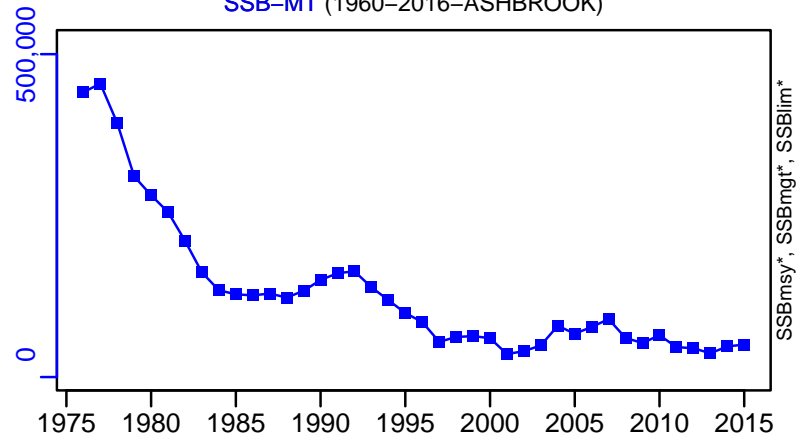
◆ Start Year ◆ End Year * No Data

American plaice Southern Gulf of St. Lawrence [AMPL4T]

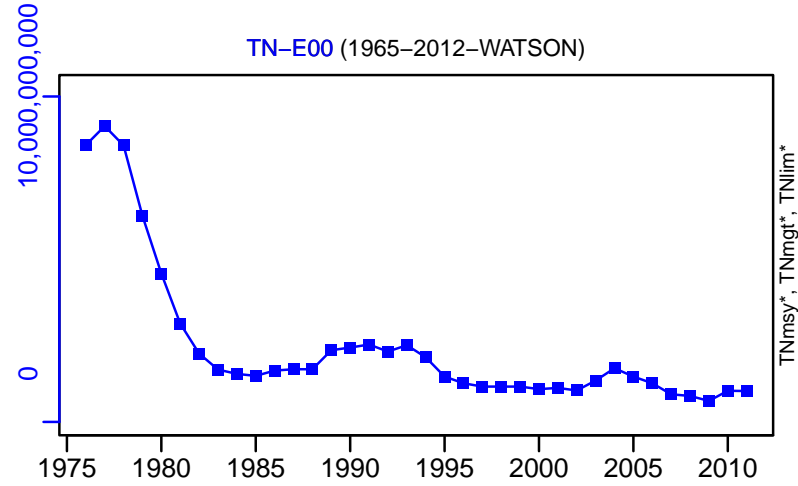
TB*



SSB-MT (1960–2016–ASHBROOK)



TN-E00 (1965–2012–WATSON)



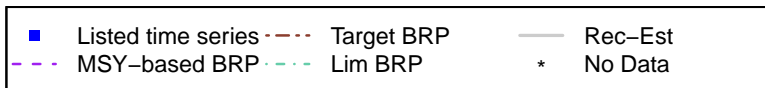
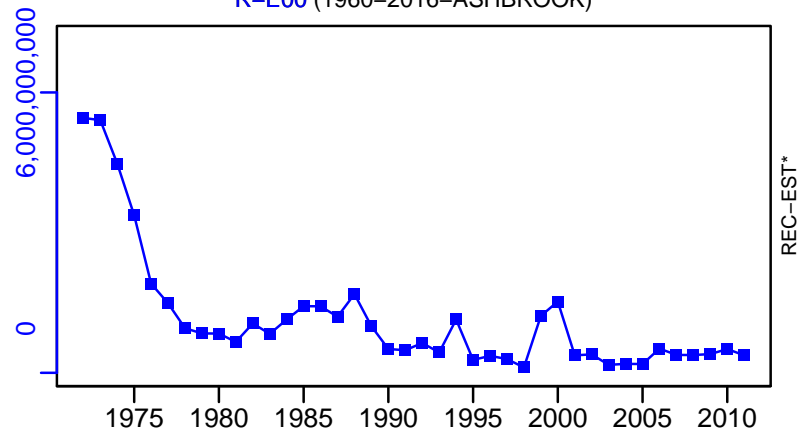
F*



ER*

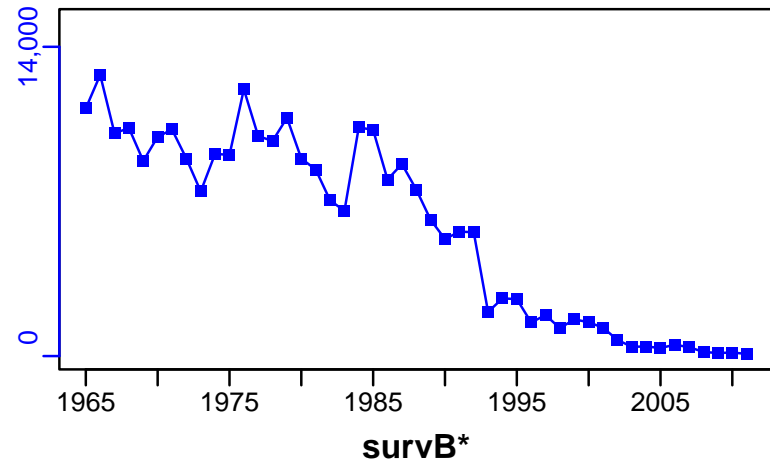


R-E00 (1960–2016–ASHBROOK)

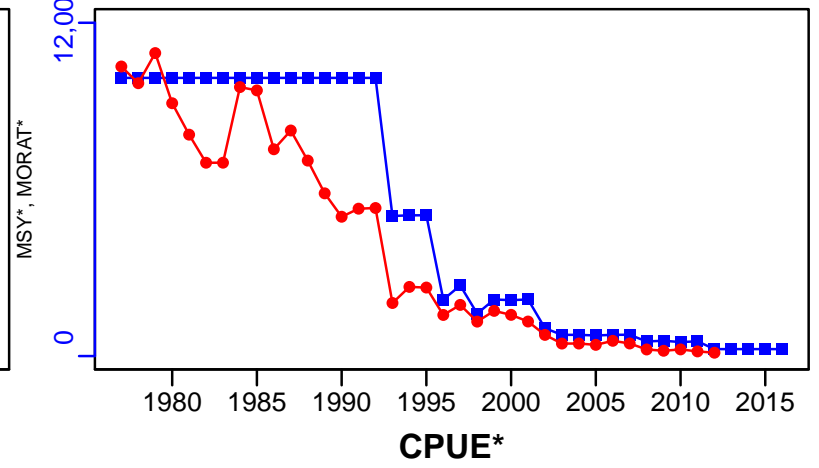


American plaice Southern Gulf of St. Lawrence [AMPL4T]

TC-MT, TL*, RecC* (1965-2012-WATSON)



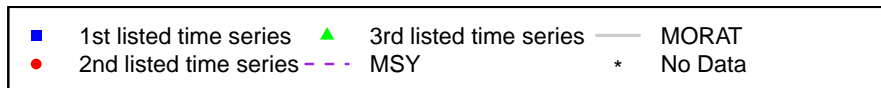
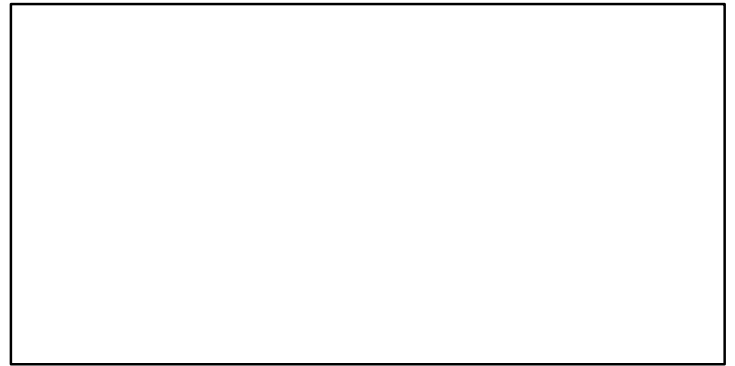
TAC-MT, Cpair-MT, Cadv* (1960-2016-ASHBROOK)



EFFORT*



CdivMSY*



American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]

Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	DFO-AMPL4VWX-1961-2010-WATSON
Area	Scotian Shelf and Bay of Fundy
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	5113
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2010	15,800	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	250		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



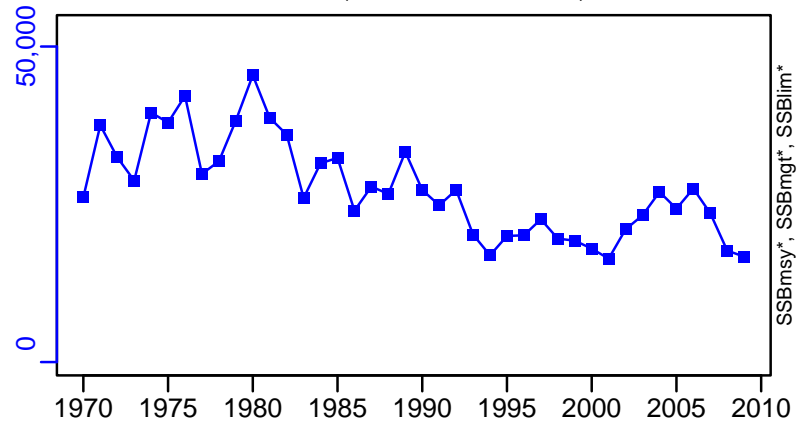
◆ Start Year ◆ End Year * No Data

American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]

TB*



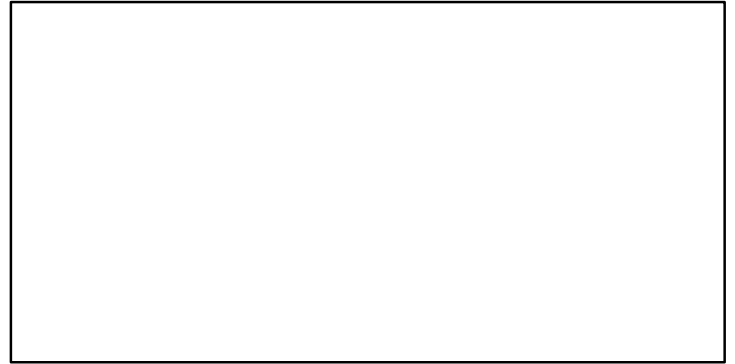
SSB-MT (1961-2010-WATSON)



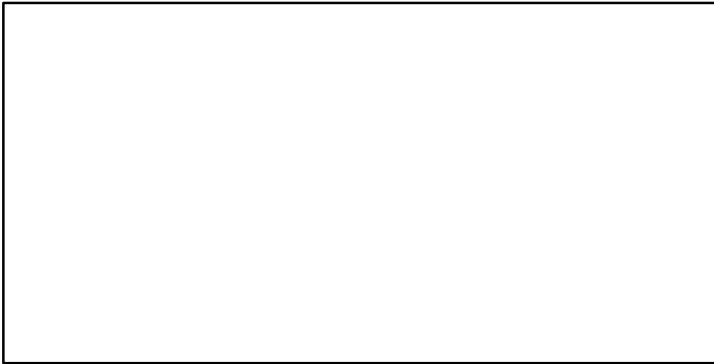
TN *



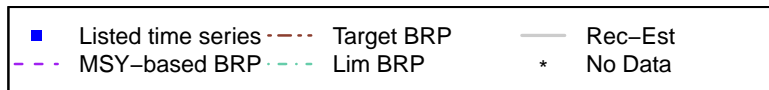
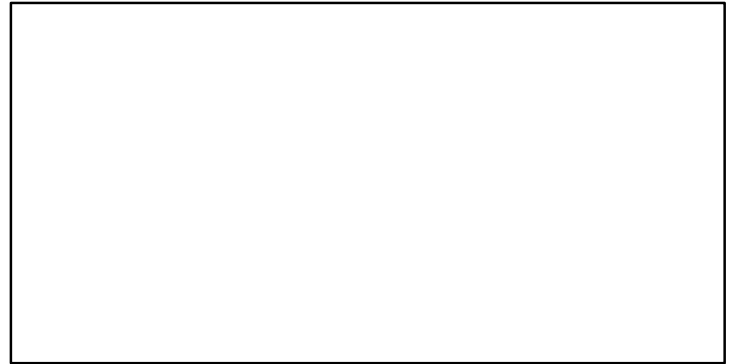
F*



ER*

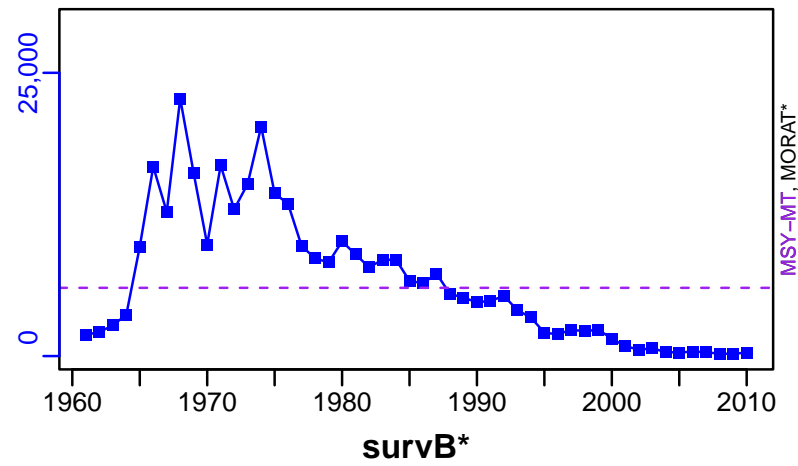


Recruits*



American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]

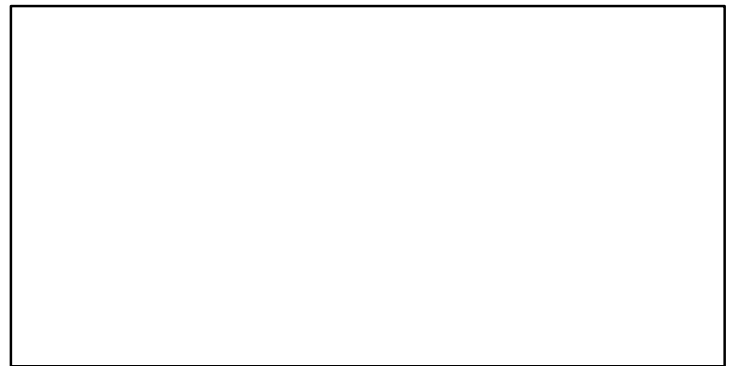
TL-MT, TC*, RecC* (1961-2010-WATSON)



TAC*, Cpair*, Cadv*



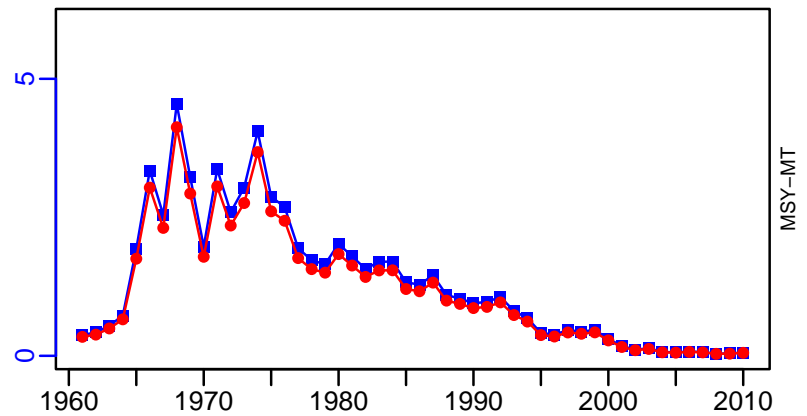
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1961-2010-WATSON)



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

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

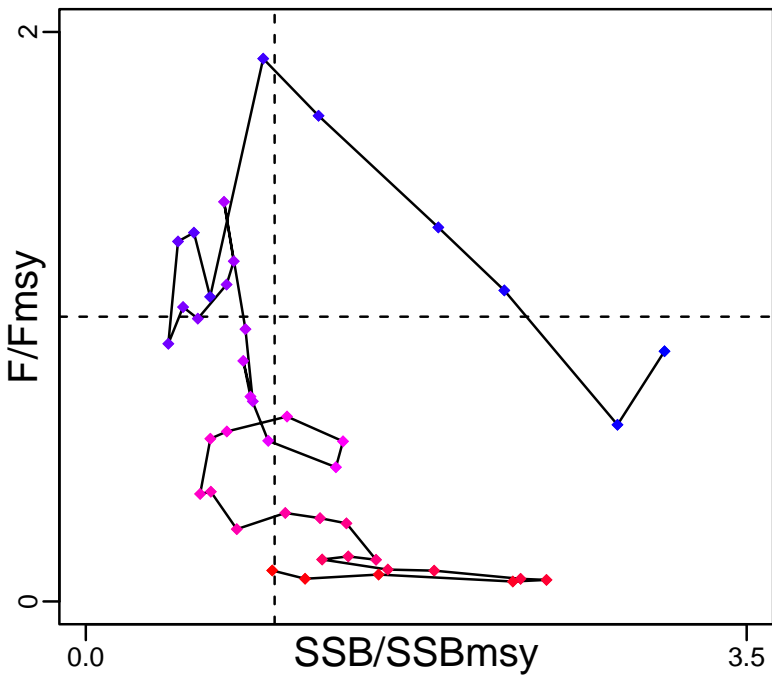
Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	NEFSC-AMPL5YZ-1979-2021-SISIMP2024
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2018, 2016, 2021, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	19,051
Fmsy	Fmsy-1/yr	2021	0.414
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	6203
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	9252
Flim	Flim-1/yr	2018	0.258
ERlim	-	-	-

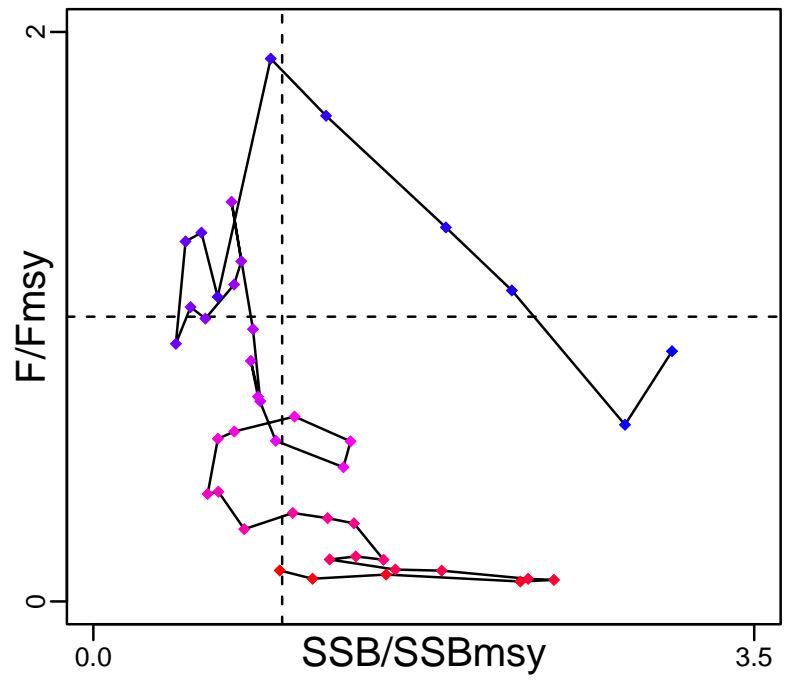
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	18,809	-	-
TN	-	-	-	-	-
R	R-E00	2021	79,235	-	1
F	F-1/yr	2021	0.045	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	701		
TL	TL-MT	2010	1400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.987		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.109		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

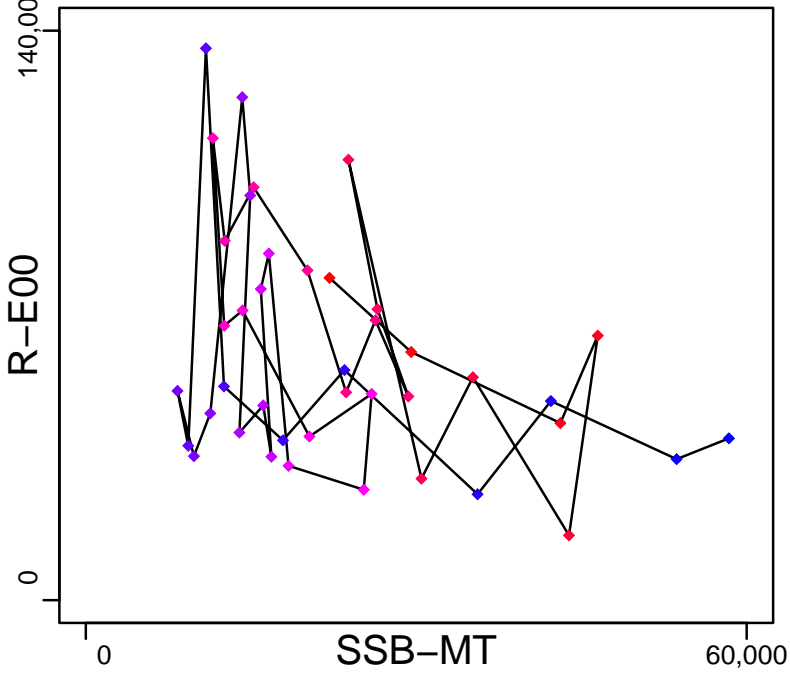
Kobe MSYpref (1979–2021–SISIMP2024)



Kobe MGTpref (1979–2021–SISIMP2024)



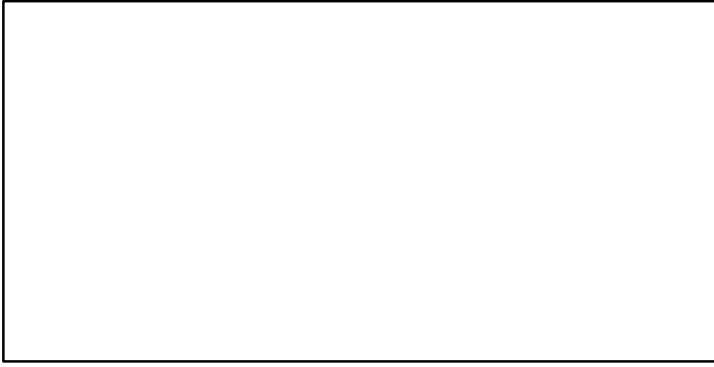
Spawner Recruit (1979–2021–SISIMP2024)



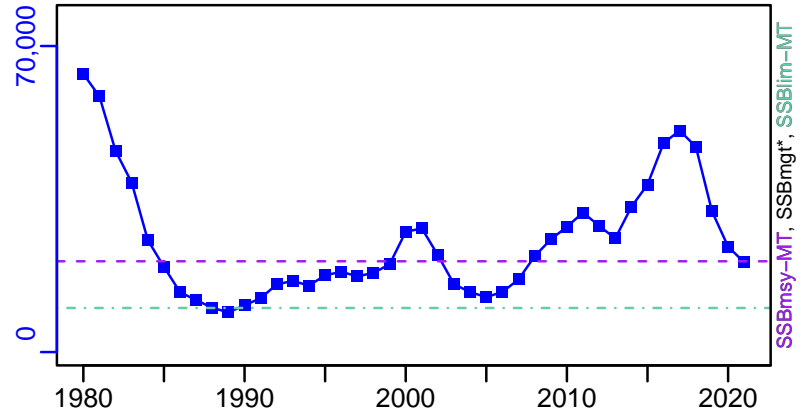
◆ Start Year ◆ End Year * No Data

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

TB*



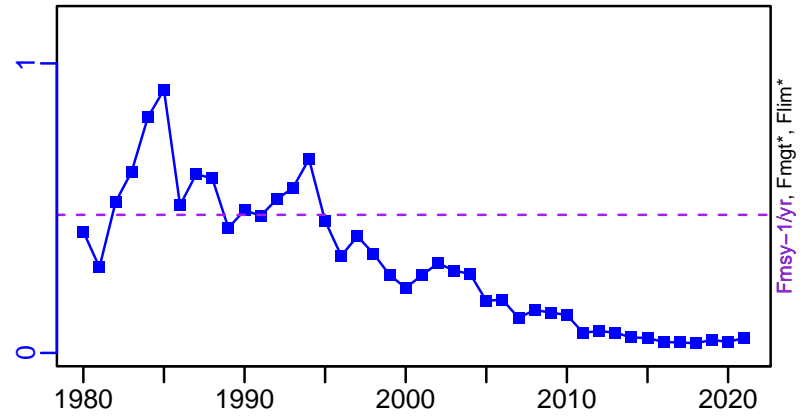
SSB-MT (1979-2021-SISIMP2024)



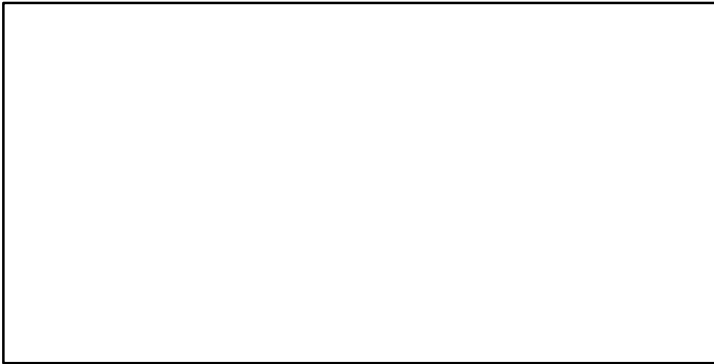
TN *



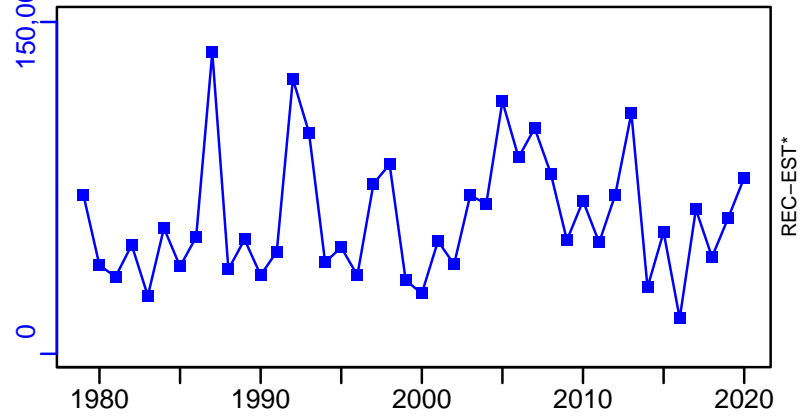
F-1/yr (1979-2021-SISIMP2024)



ER*



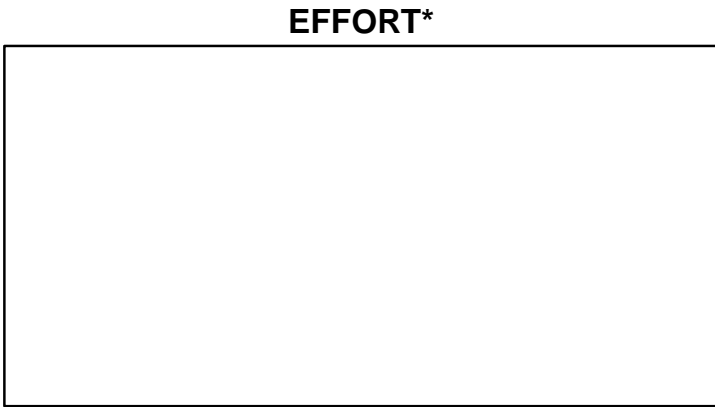
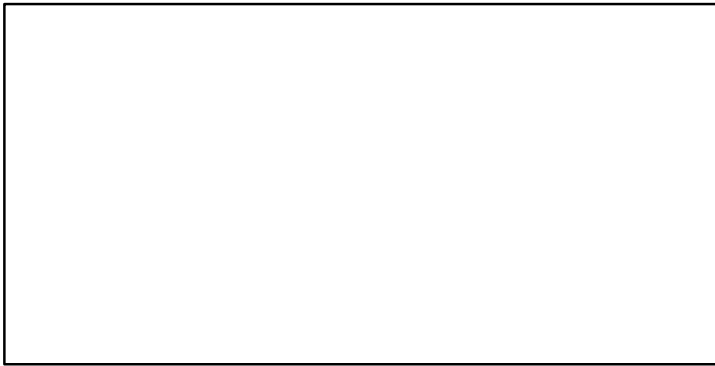
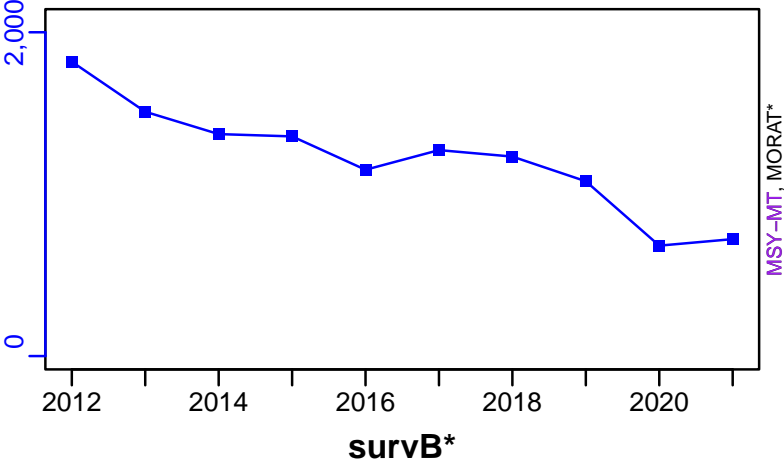
R-E00 (1979-2021-SISIMP2024)



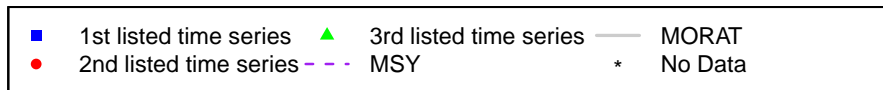
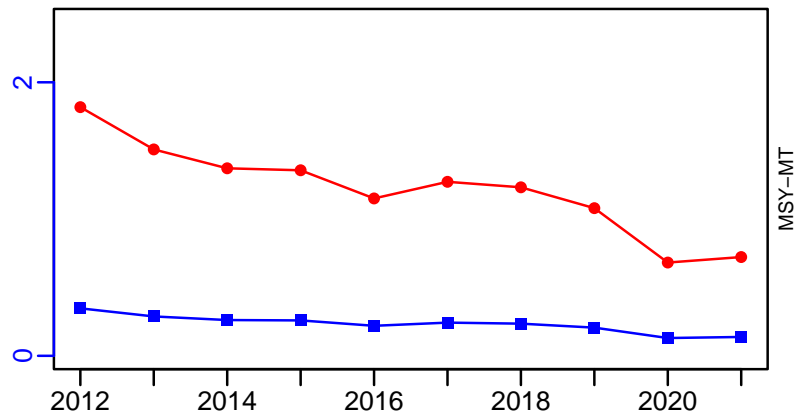
American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

TC-MT, TL*, RecC* (1979-2021-SISIMP2024)

TAC*, Cpair*, Cadv*



TC-MT/MSY-MT, CdivMEANC-ratio, (1979-2021-SISIMP2024)



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

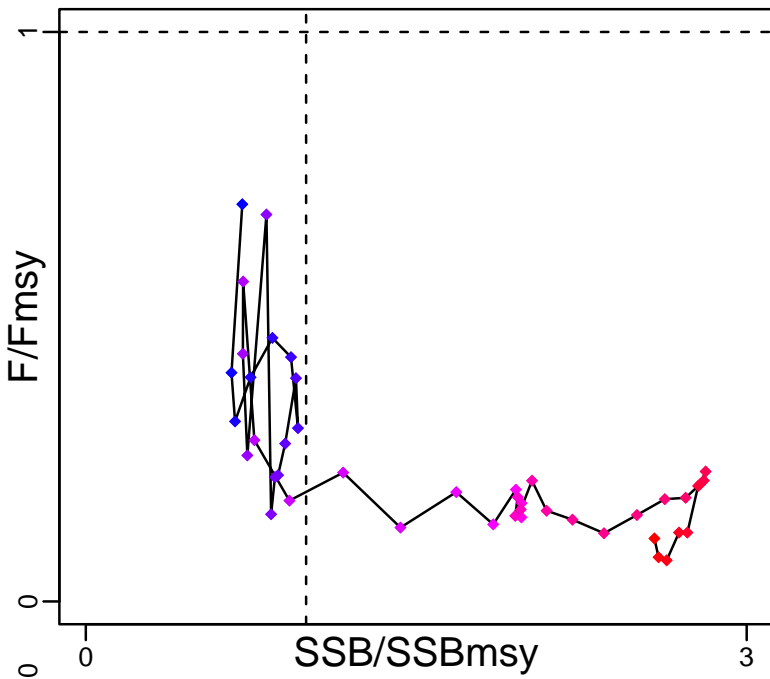
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDBSAI-1975-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2020,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

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

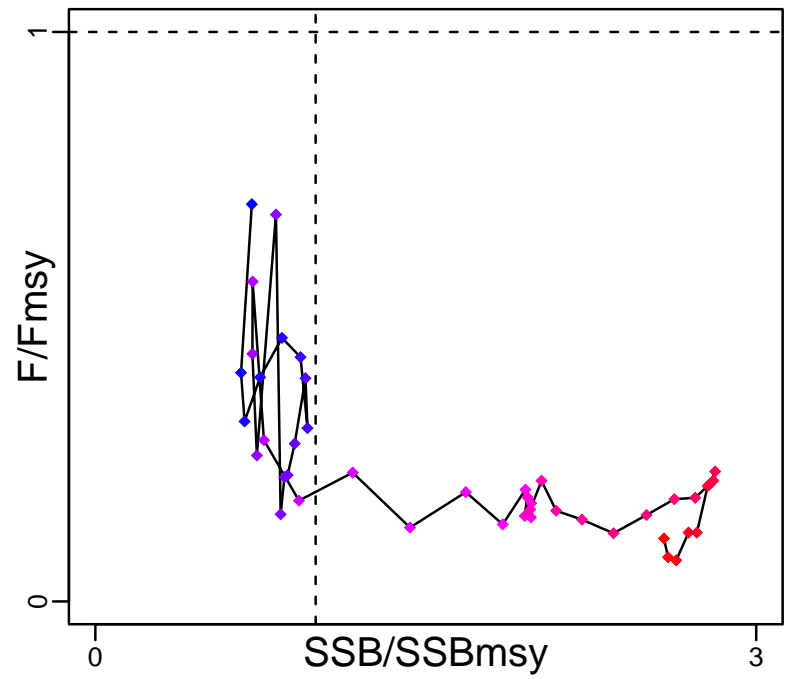
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	908,000	Both	1+
SSB	SSB-MT	2020	503,360	Females	-
TN	-	-	-	-	-
R	R-E00	2020	209,624,992	-	1
F	F-1/yr	2020	0.018	-	-
ER	ER-calc-ratio	2015	0.022	-	-
TC	TC-MT	2020	10,681		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.574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

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

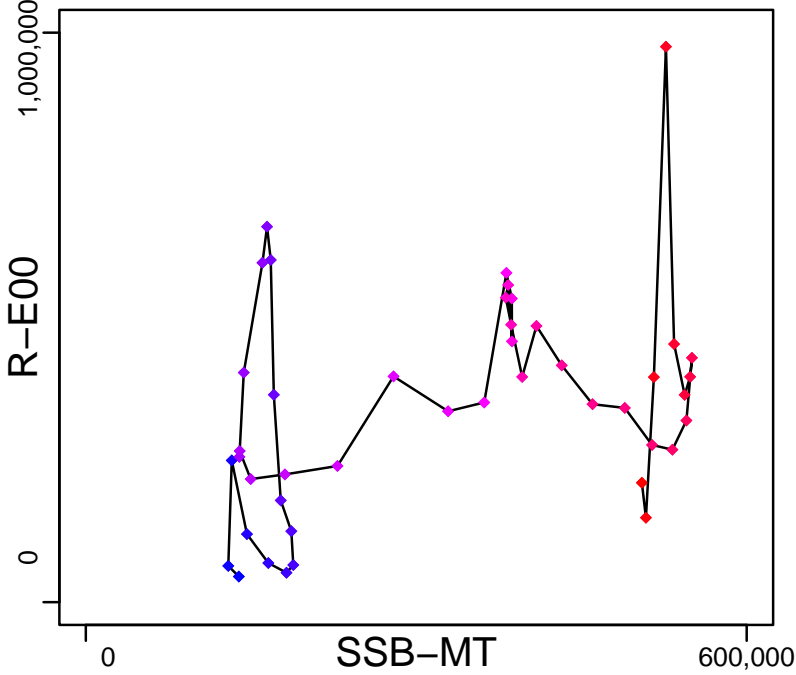
Kobe MSY_{pref} (1975–2020–SISIMP2022)



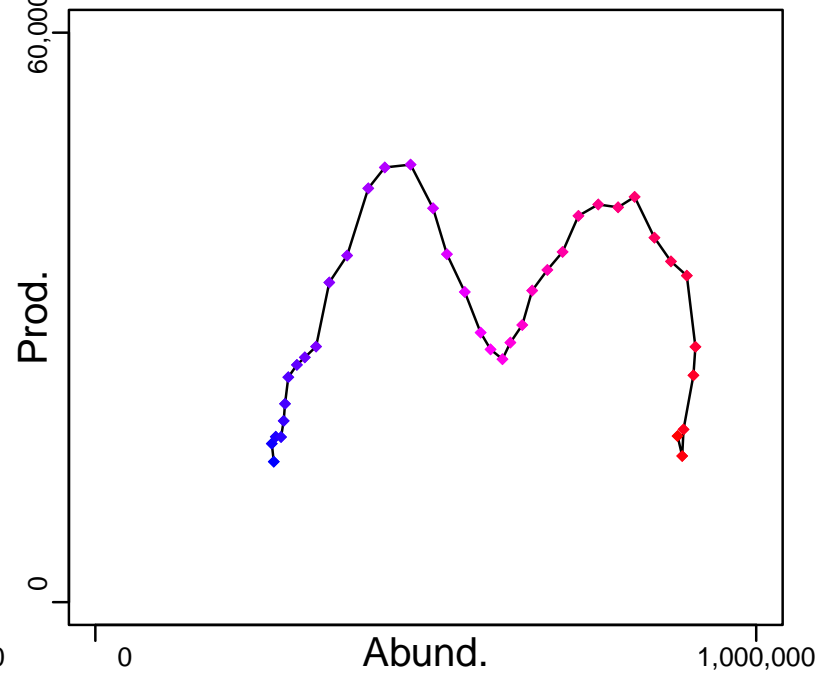
Kobe MGT_{pref} (1975–2020–SISIMP2022)



Spawner Recruit (1975–2020–SISIMP2022)



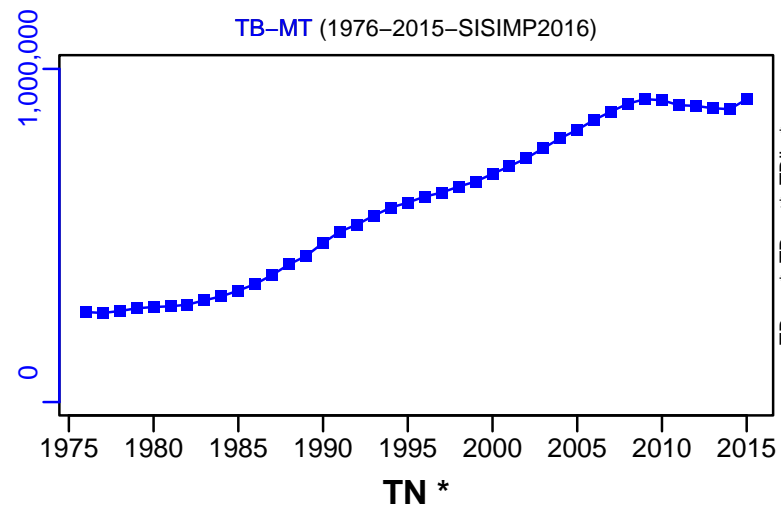
Production (1976–2015–SISIMP2016)



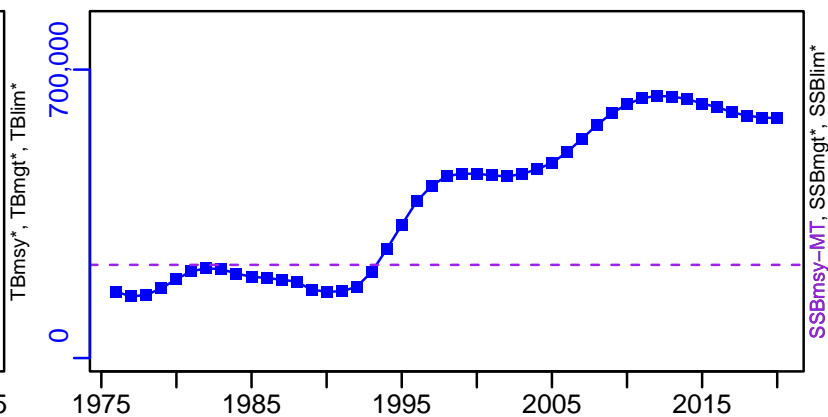
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

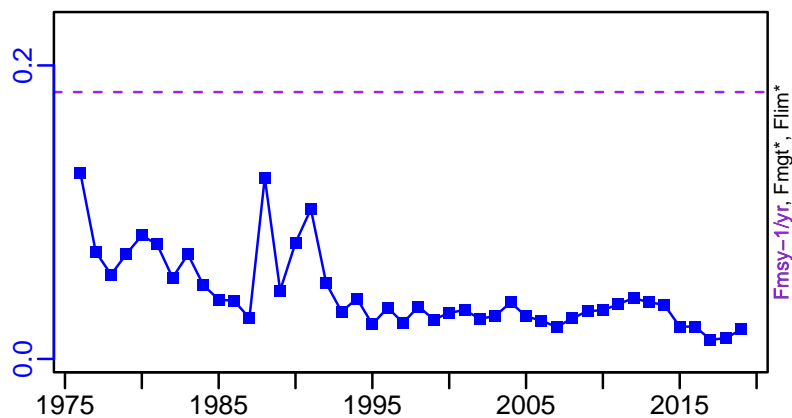
TB-MT (1976–2015–SISIMP2016)



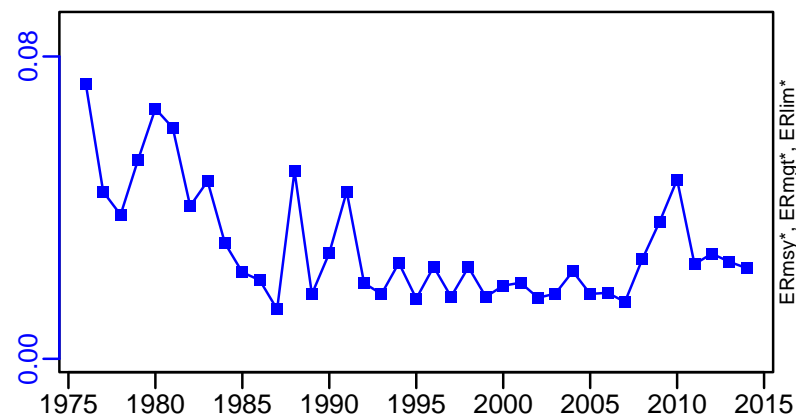
SSB-MT (1975–2020–SISIMP2022)



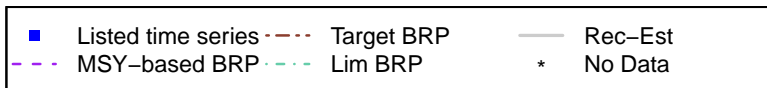
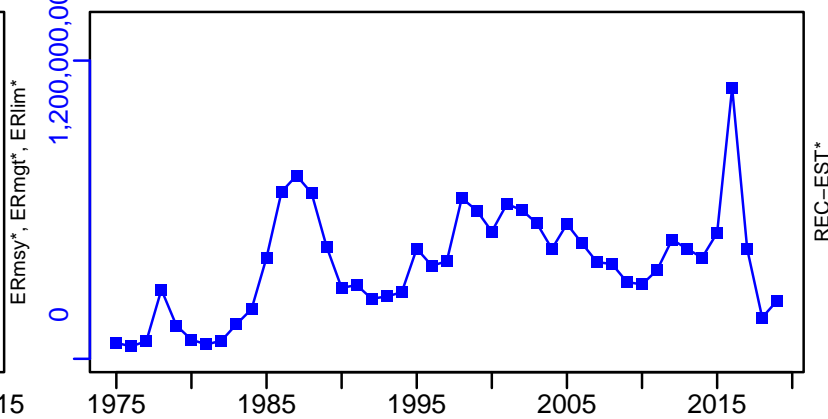
F-1/yr (1975–2020–SISIMP2022)



ER-calc-ratio (1976–2015–SISIMP2016)



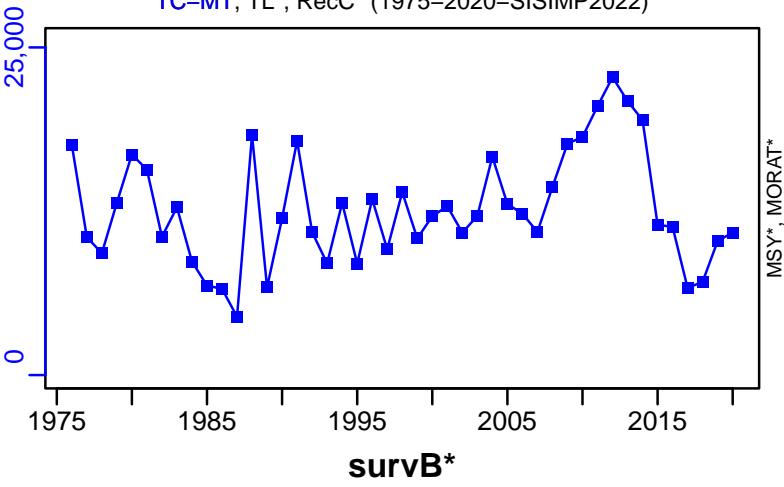
R-E00 (1975–2020–SISIMP2022)



Arrowtooth flounder Bering Sea and Aleutian Islands [ARFLOUNDBSAI]

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

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

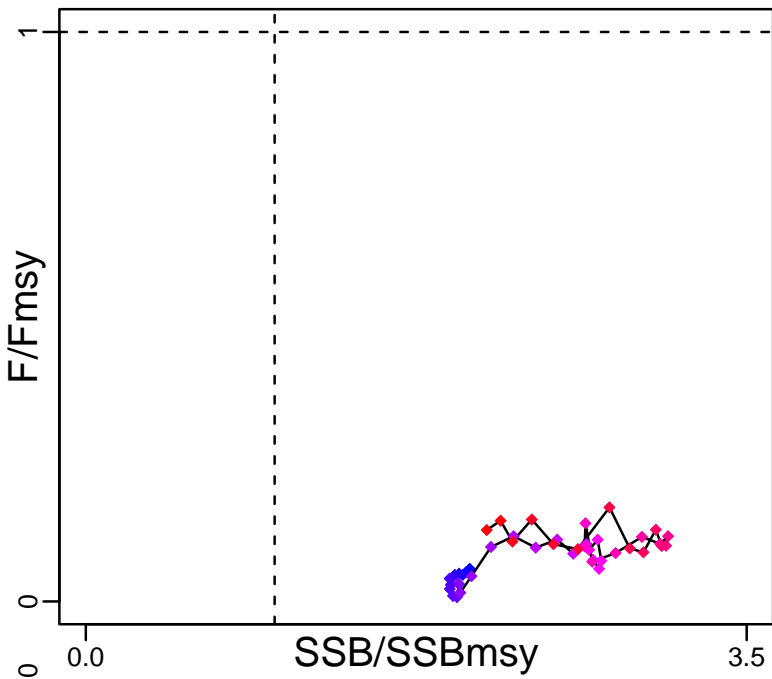
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	AFSC-ARFLOUNDGA-1976-2021-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2015, 2019, 2021

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

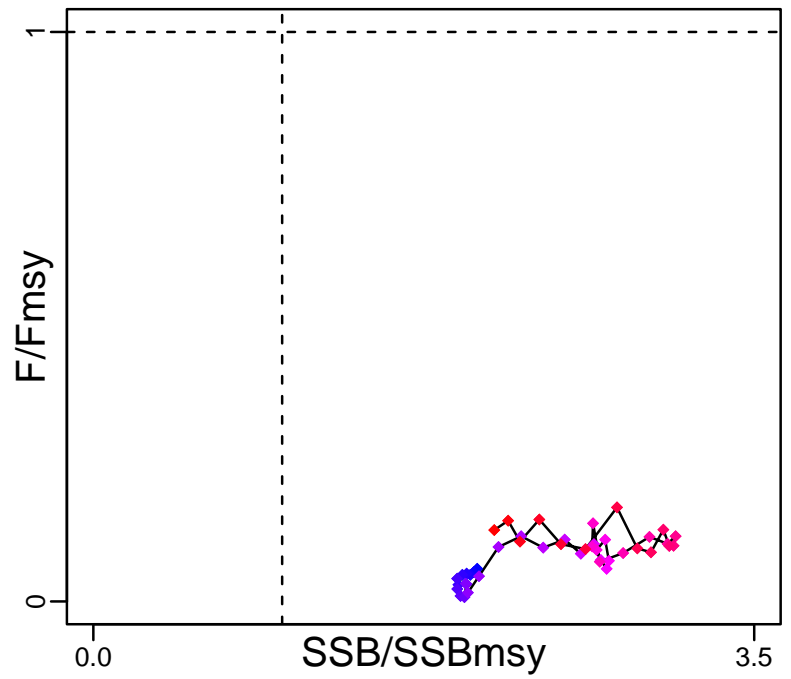
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,090,000	-	1+
SSB	SSB-MT	2021	730,753	Females	-
TN	-	-	-	-	-
R	R-E00	2021	4.36×10^8	-	1
F	F-1/yr	2021	0.028	-	-
ER	ER-calc-ratio	2015	0.018	-	-
TC	TC-MT	2021	21,122		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.05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

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

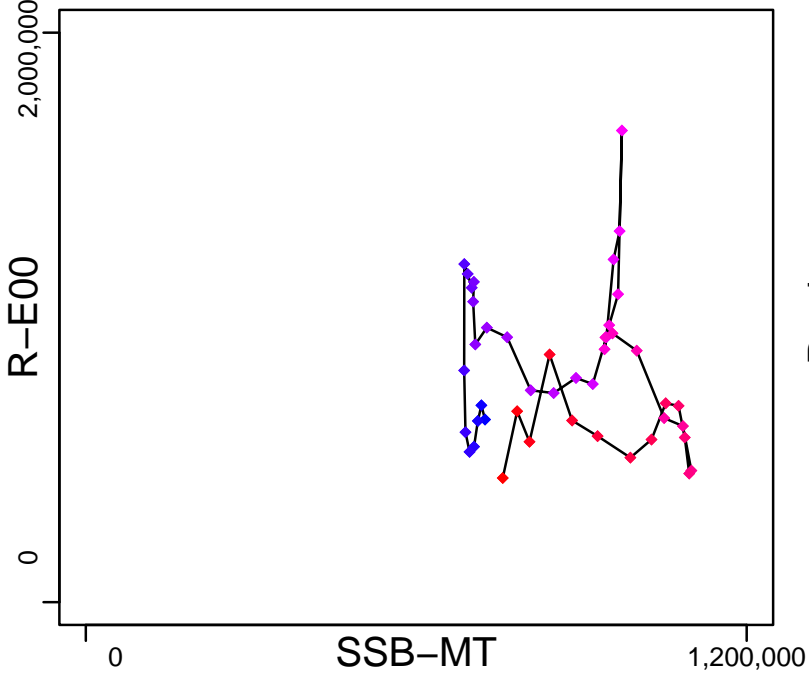
Kobe MSY_{pref} (1976–2021–SISIMP2022)



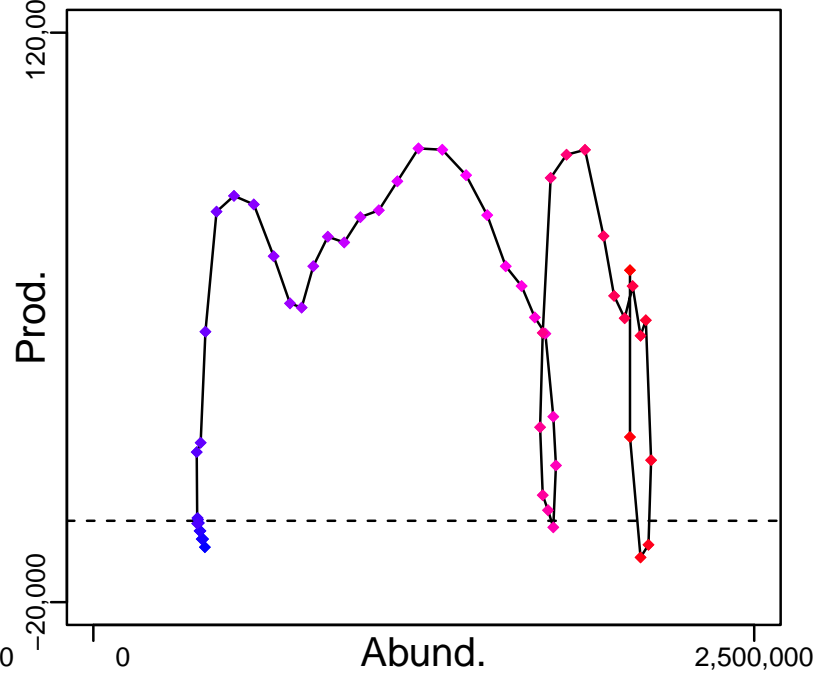
Kobe MGT_{pref} (1976–2021–SISIMP2022)



Spawner Recruit (1976–2021–SISIMP2022)



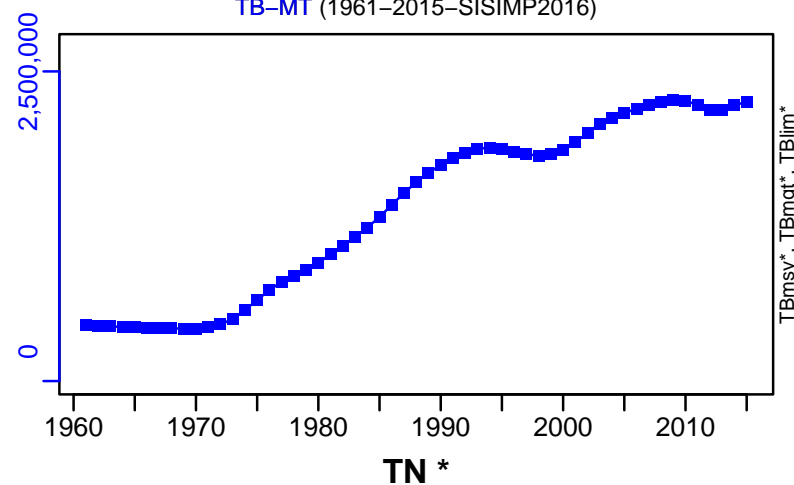
Production (1961–2015–SISIMP2016)



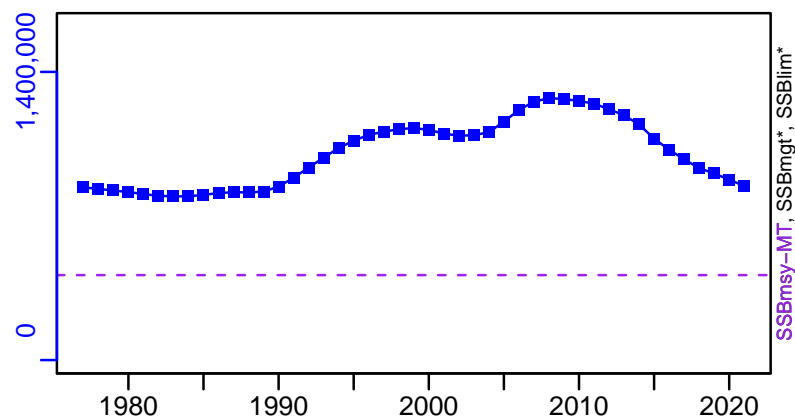
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

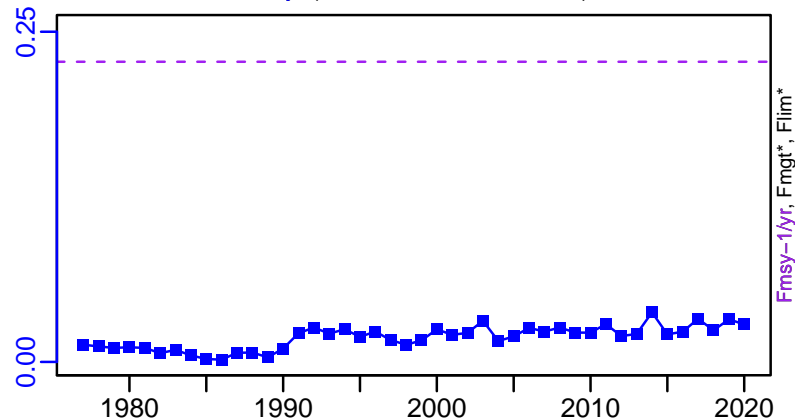
TB-MT (1961–2015–SISIMP2016)



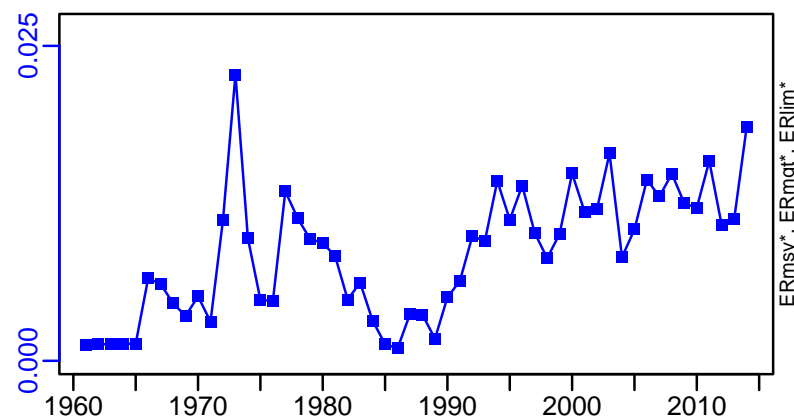
SSB-MT (1976–2021–SISIMP2022)



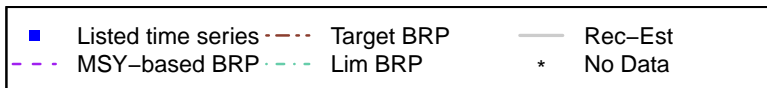
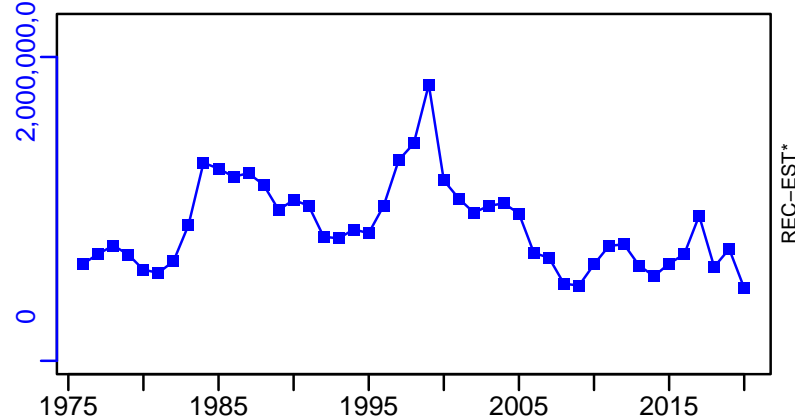
F-1/yr (1976–2021–SISIMP2022)



ER-calc-ratio (1961–2015–SISIMP2016)



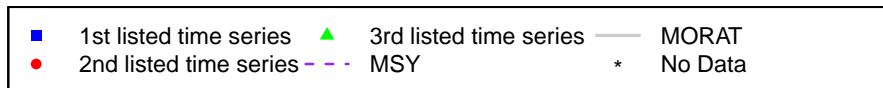
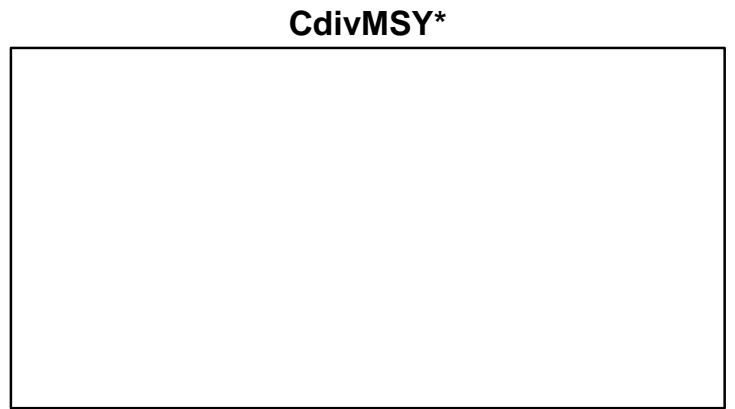
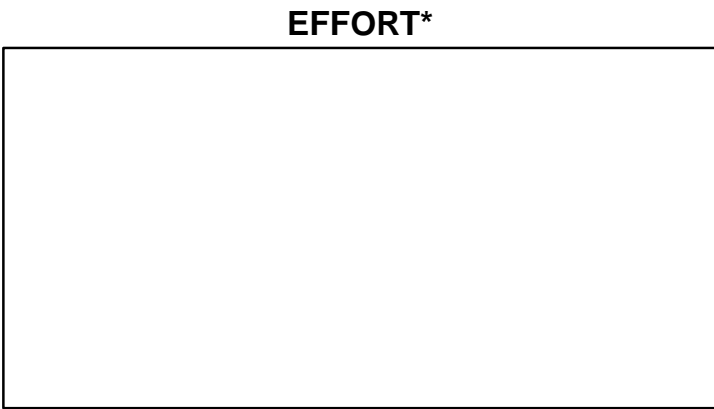
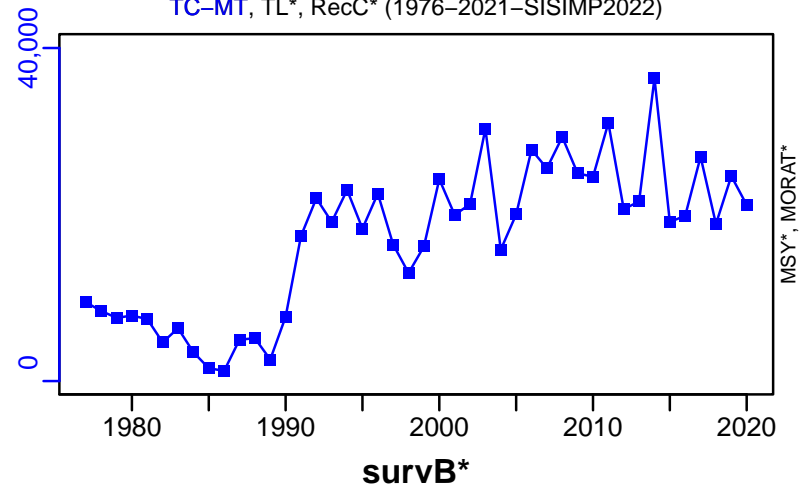
R-E00 (1976–2021–SISIMP2022)



Arrowtooth flounder Gulf of Alaska [ARFLOUNDGA]

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

TAC*, Cpair*, Cadv*



Arrowtooth flounder Pacific Coast [ARFLOUNDPCOAST]

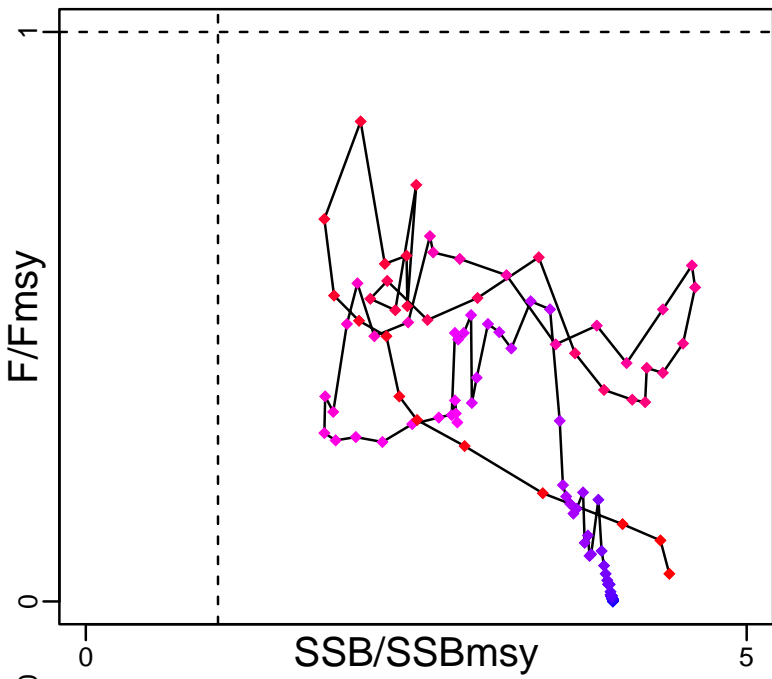
Metadata	
Scientific Name	Atheresthes stomias
Current Assess ID	NWFSC-ARFLOUNDPCOAST-1916-2021-SISIMP2021-2
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2007, 2017, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	44,591
SSBmsy	SSBmsy-MT	2021	16,400
Fmsy	Fmsy-1/yr	2021	0.7
ERmsy	ERmsy-ratio	2007	0.131
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	80,313
MSY	MSY-MT	2021	6760
M	M-1/yr	2007	0.166
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	8180
Flim	Flim-1/yr	2021	0.7
ERlim	-	-	-

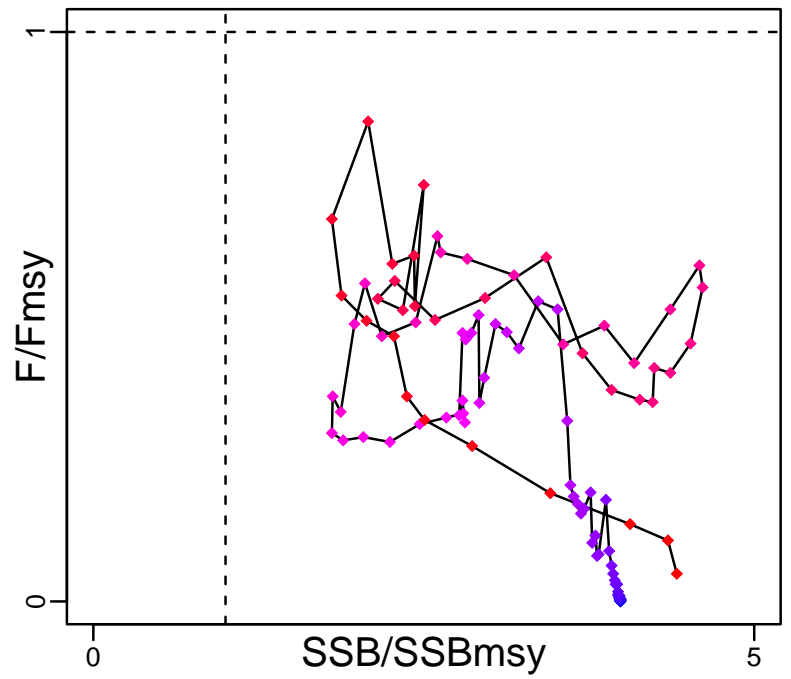
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	94,534	-	-
SSB	SSB-MT	2021	72,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	50,500,000	-	0
F	F-1/yr	2021	0.034	-	-
ER	ER-calc-ratio	2017	0.021	-	-
TC	TC-MT	2021	970		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.868		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	4.427		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.049		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.218		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Arrowtooth flounder Pacific Coast [ARFLOUNDPCOAST]

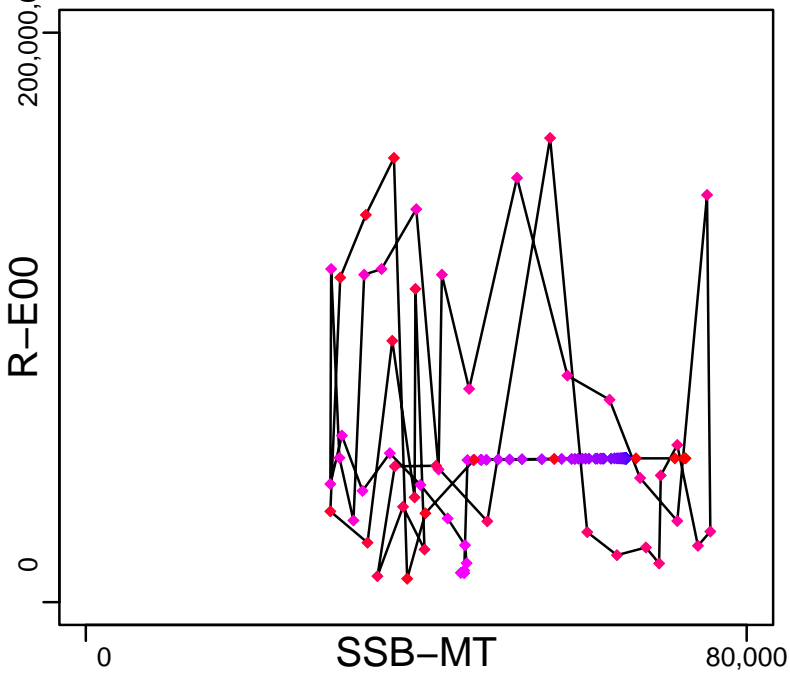
Kobe MSYpref (1916–2021–SISIMP2021–2)



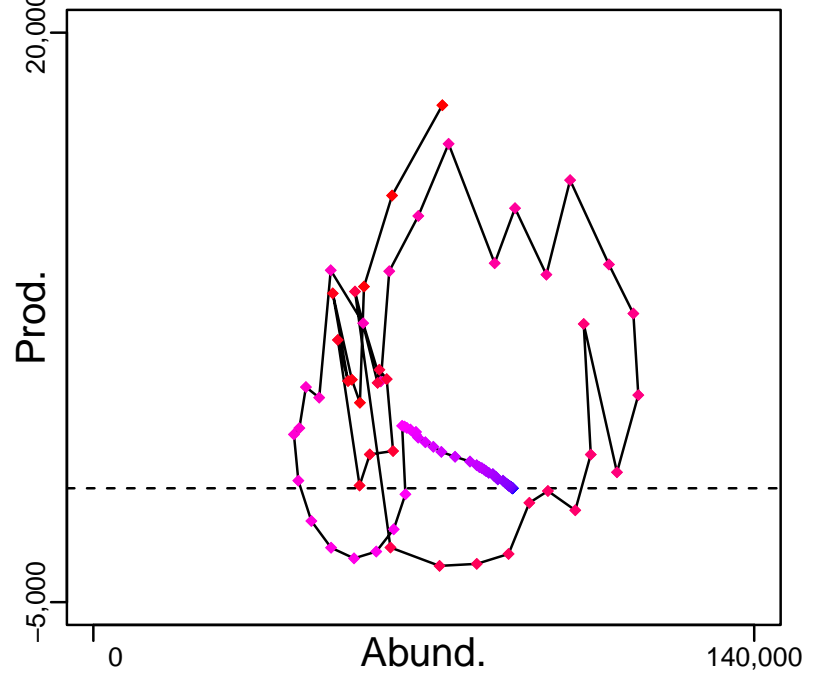
Kobe MGTpref (1916–2021–SISIMP2021–2)



Spawner Recruit (1916–2021–SISIMP2021–2)



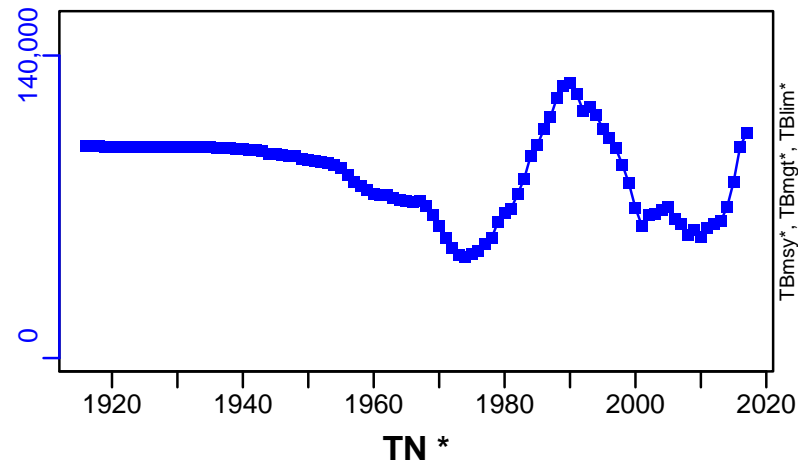
Production (1916–2017–SISIMP2021)



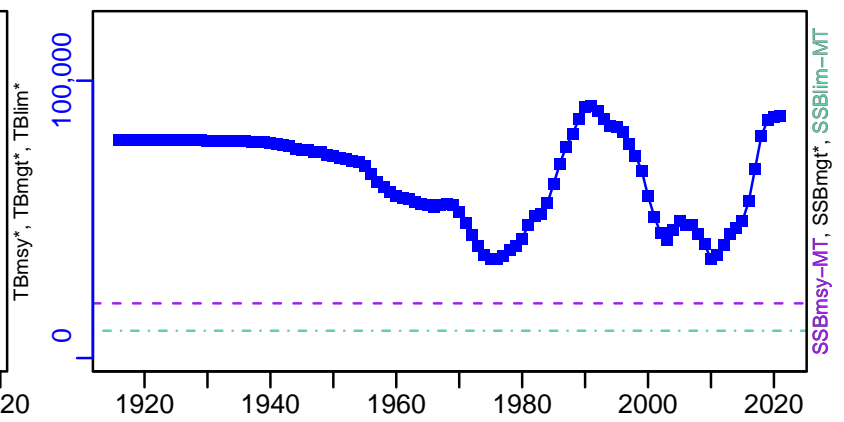
◆ Start Year ◆ End Year * No Data

Arrowtooth flounder Pacific Coast [ARFLOUNDCOAST]

TB-MT (1916–2017–SISIMP2021)



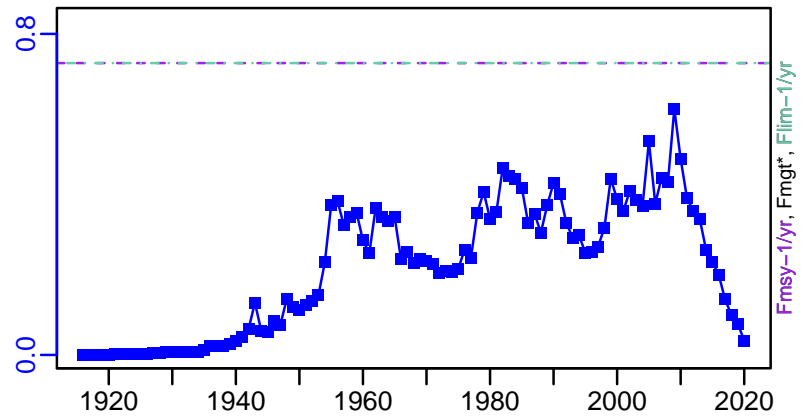
SSB-MT (1916–2021–SISIMP2021–2)



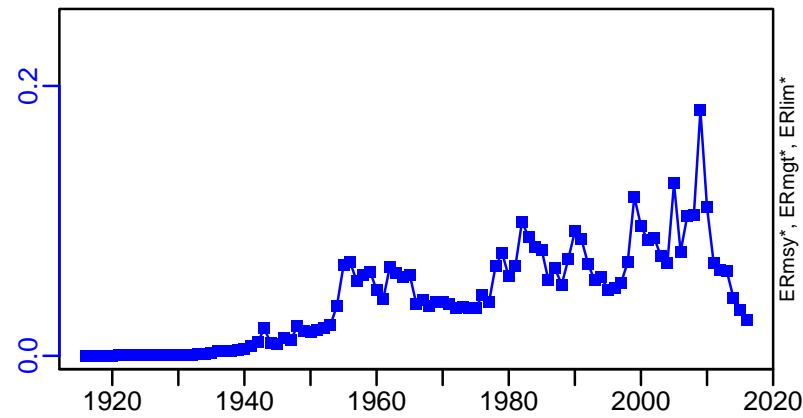
TN *



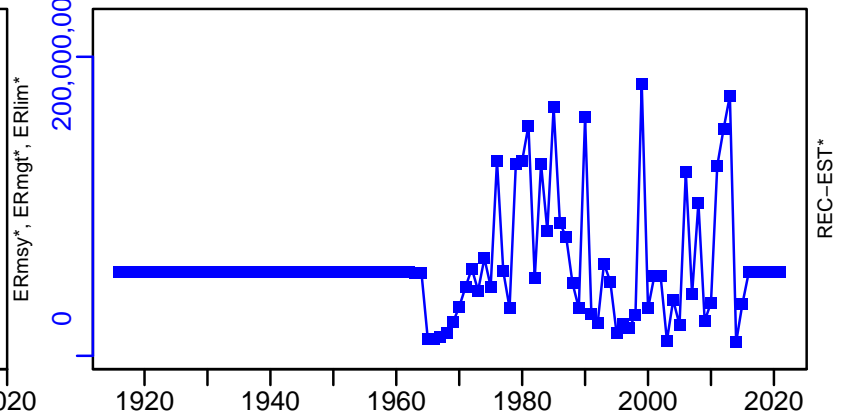
F-1/yr (1916–2021–SISIMP2021–2)



ER-calc-ratio (1916–2017–SISIMP2021)



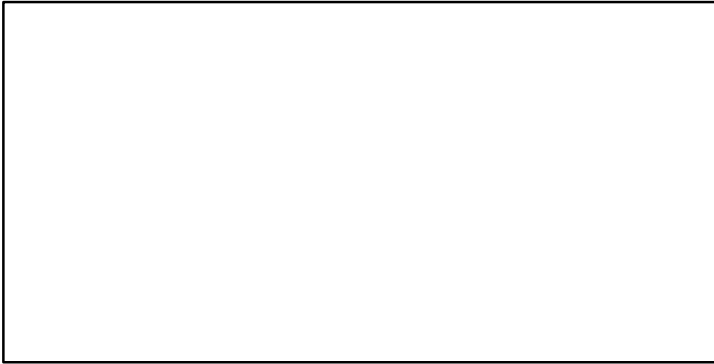
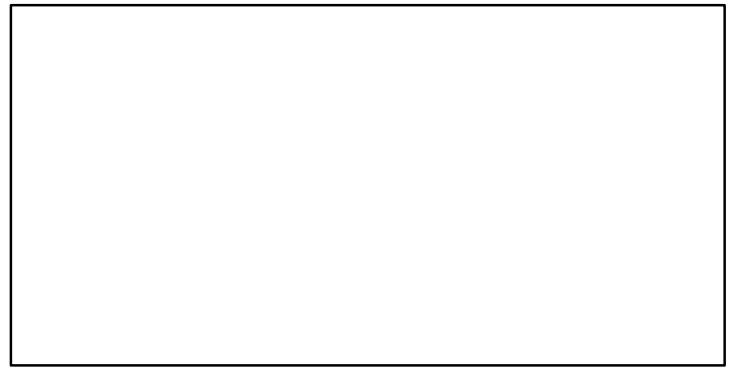
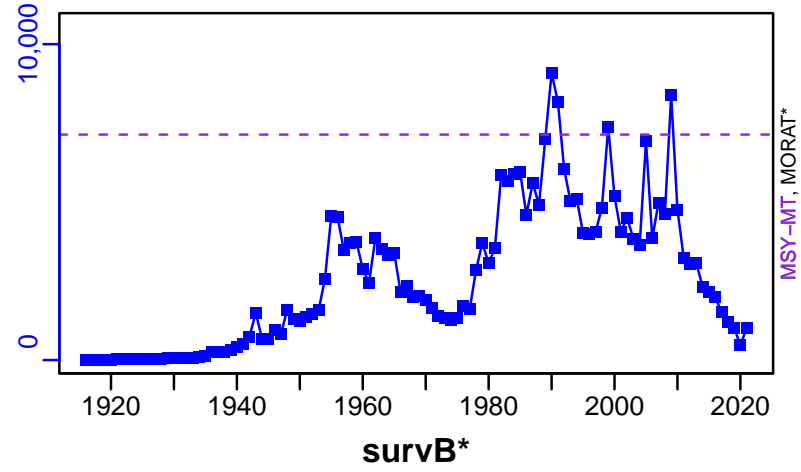
R-E00 (1916–2021–SISIMP2021–2)



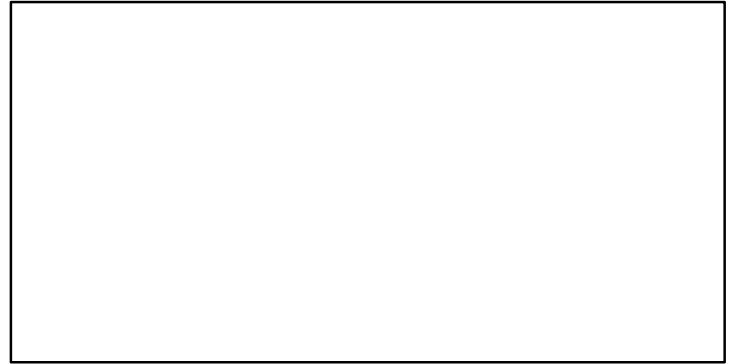
Arrowtooth flounder Pacific Coast [ARFLOUNDPACOAST]

TC-MT, TL*, RecC* (1916-2021-SISIMP2021-2)

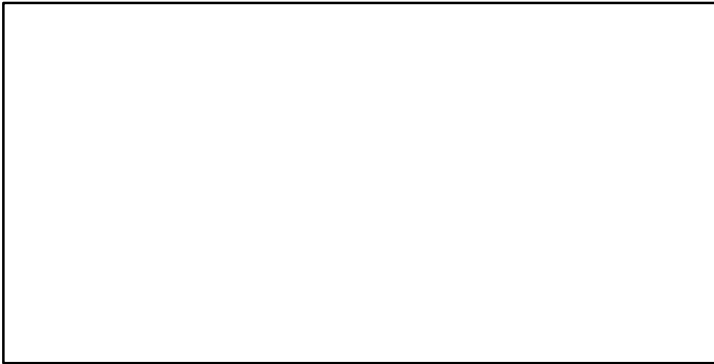
TAC*, Cpair*, Cadv*



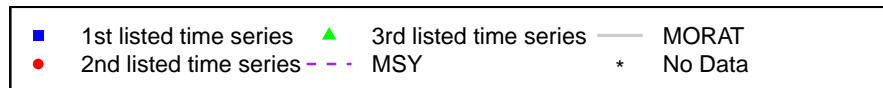
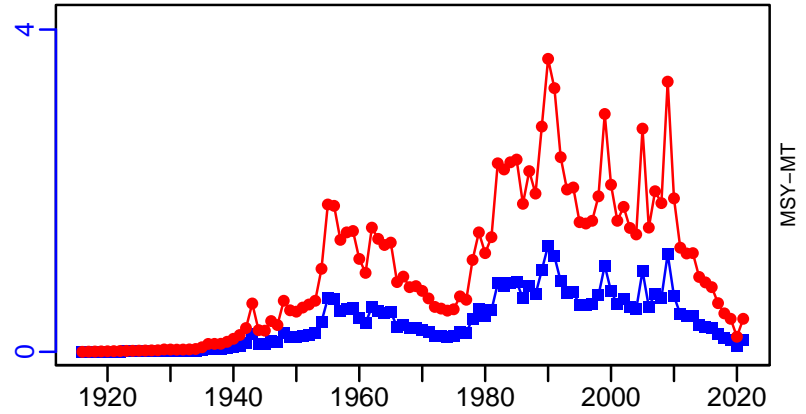
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1916-2021-SISIMP2021-2)



Atlantic halibut Scotian Shelf and Southern Grand Banks [ATHAL3NOPs4VWX5Zc]

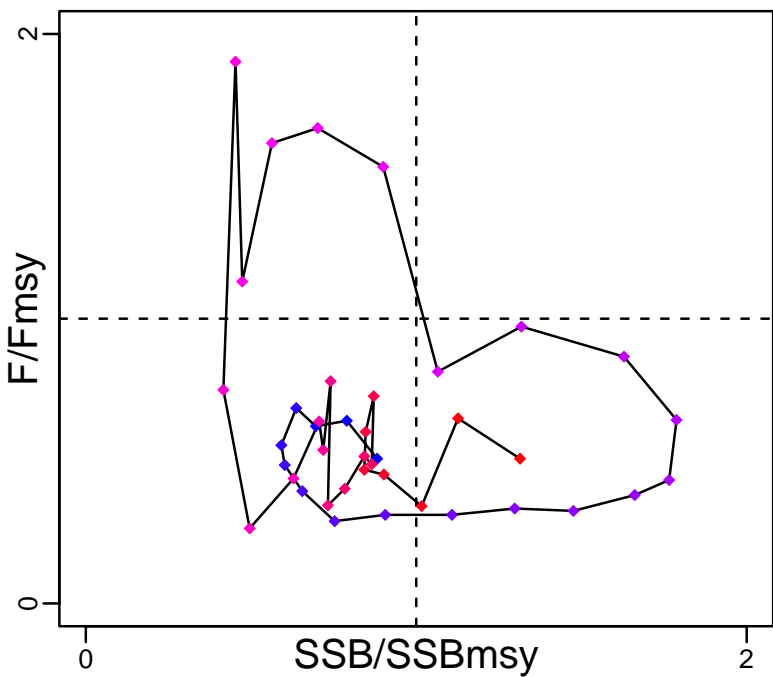
Metadata	
Scientific Name	Hippoglossus hippoglossus
Current Assess ID	DFO-ATHAL3NOPs4VWX5Zc-1970-2014-WATSON
Area	Scotian Shelf and Southern Grand Banks
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2010	4900
Fmsy	Fmsy-1/yr	2010	0.36
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

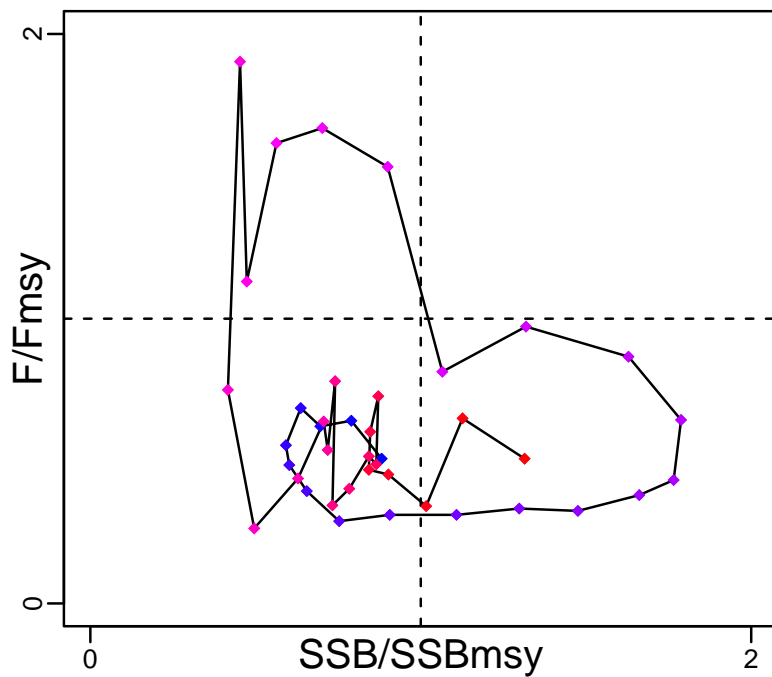
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	31,800	-	-
SSB	SSB-MT	2014	6650	-	-
TN	TN-E00	2014	3,460,000	Both	-
R	R-E00	2014	669,000	-	-
F	F-1/yr	2010	0.3	-	-
ER	ER-calc-ratio	2014	0.072	-	-
TC	-	-	-		
TL	TL-MT	2014	2290		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	1.314		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.833		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic halibut Scotian Shelf and Southern Grand Banks [ATHAL3NOPs4VWX5Zc]

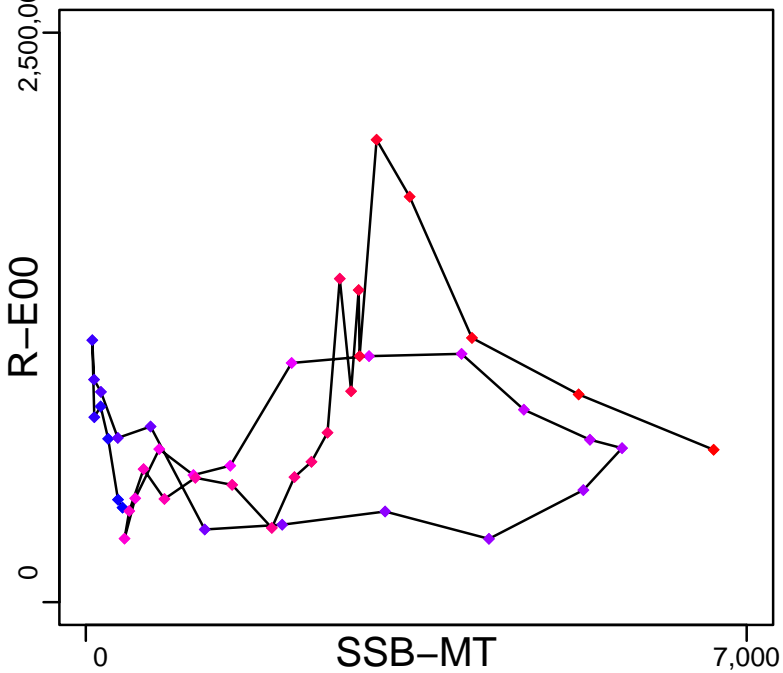
Kobe MSYpref (1960–2010–CHING)



Kobe MGTpref (1960–2010–CHING)

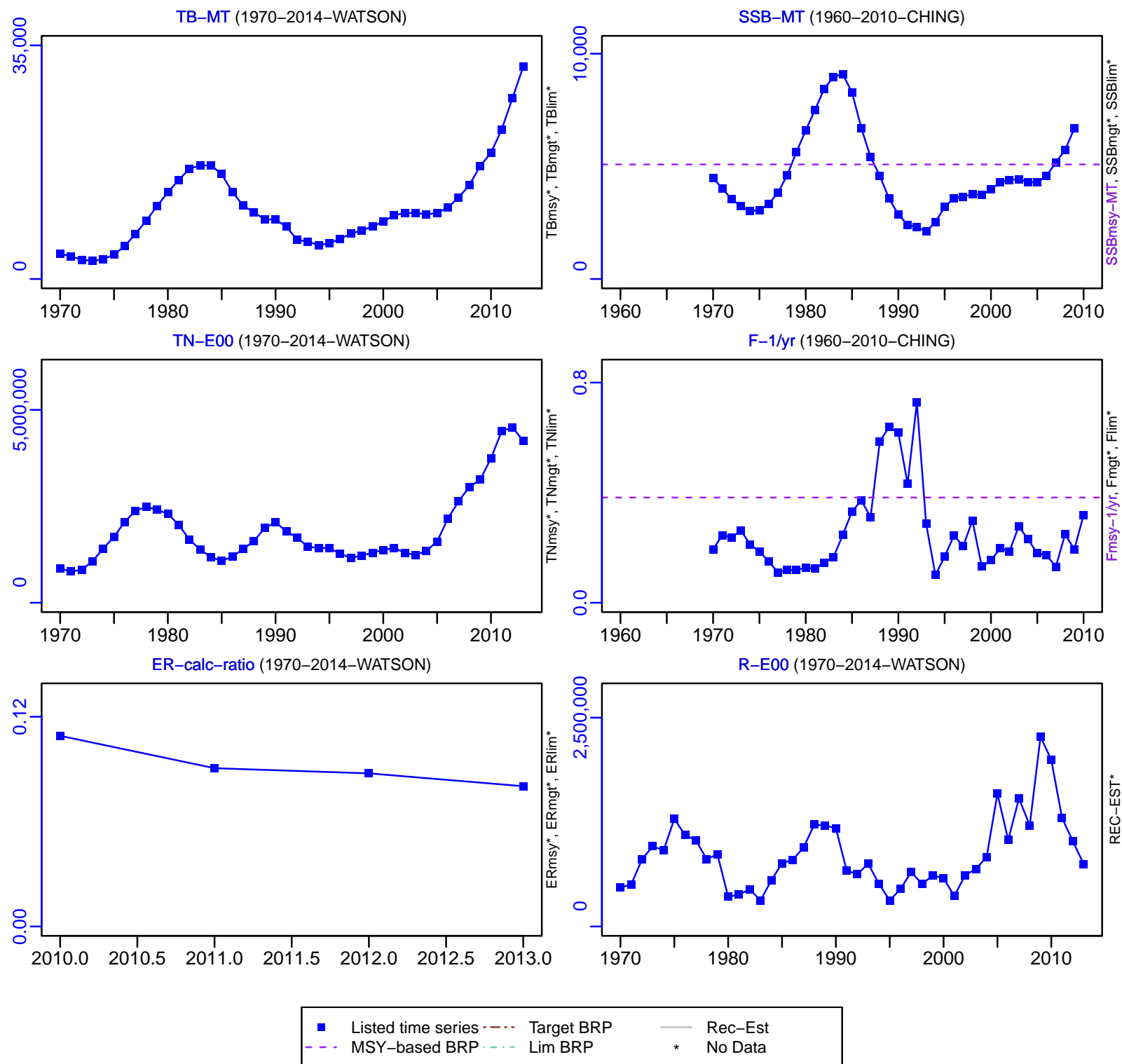


Spawner Recruit (1970–2014–WATSON)



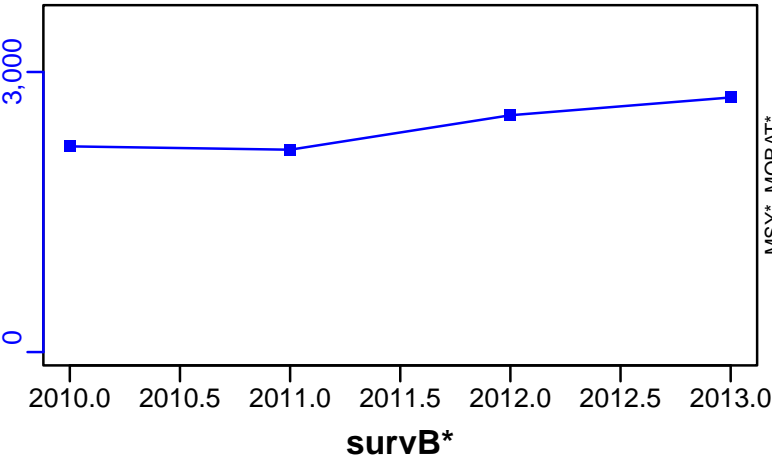
◆ Start Year ◆ End Year * No Data

Atlantic halibut Scotian Shelf and Southern Grand Banks [ATHAL3NOPs4VWX5Zc]

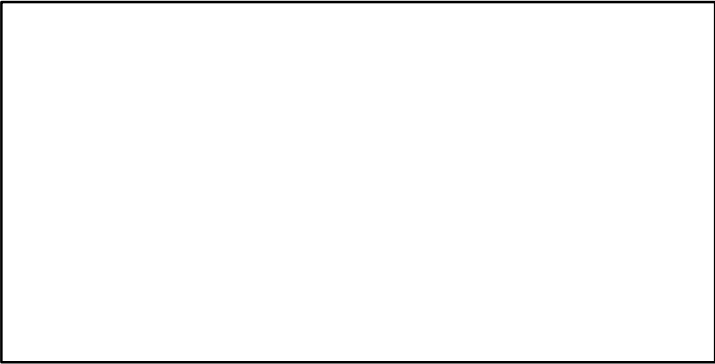
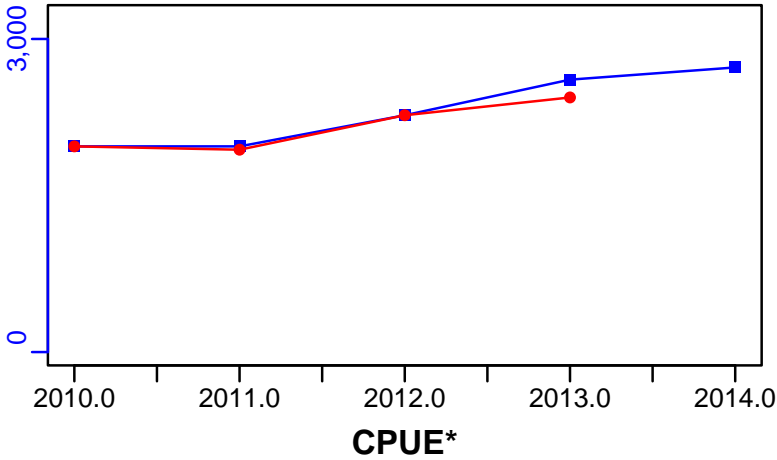


Atlantic halibut Scotian Shelf and Southern Grand Banks [ATHAL3NOPs4VWX5Zc]

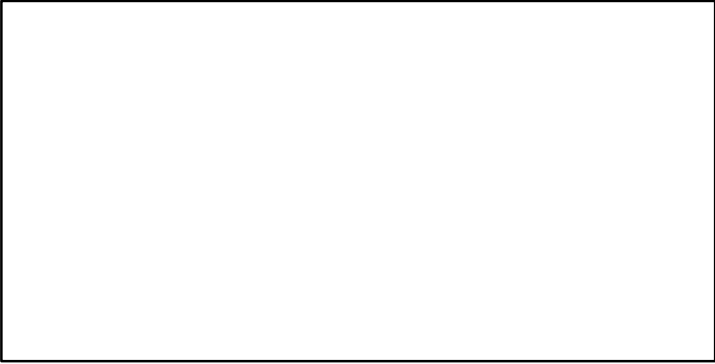
TL-MT, TC*, RecC* (1970-2014-WATSON)



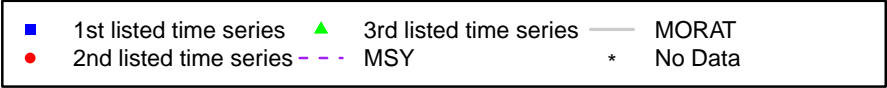
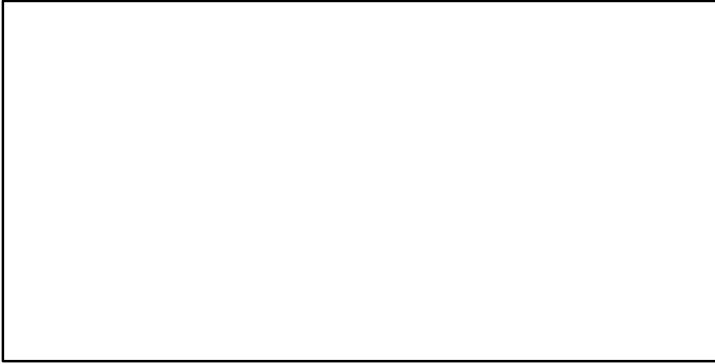
TAC-MT, Cpair-MT, Cadv* (1970-2014-WATSON)



EFFORT*



CdivMSY*



Atlantic halibut Gulf of St. Lawrence [ATHAL4RST]

Metadata	
Scientific Name	Hippoglossus hippoglossus
Current Assess ID	DFO-QUE-ATHAL4RST-1960-2018-ASHBROOK
Area	Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	1095		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

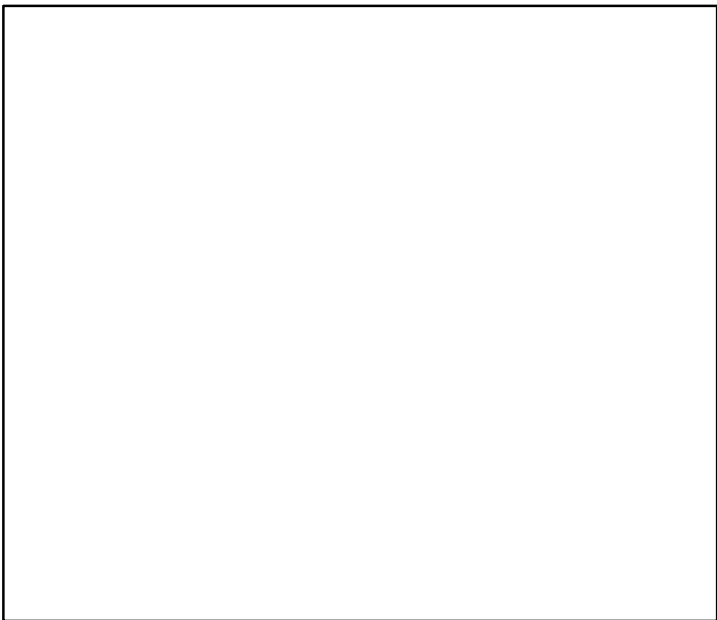
Kobe MSY*



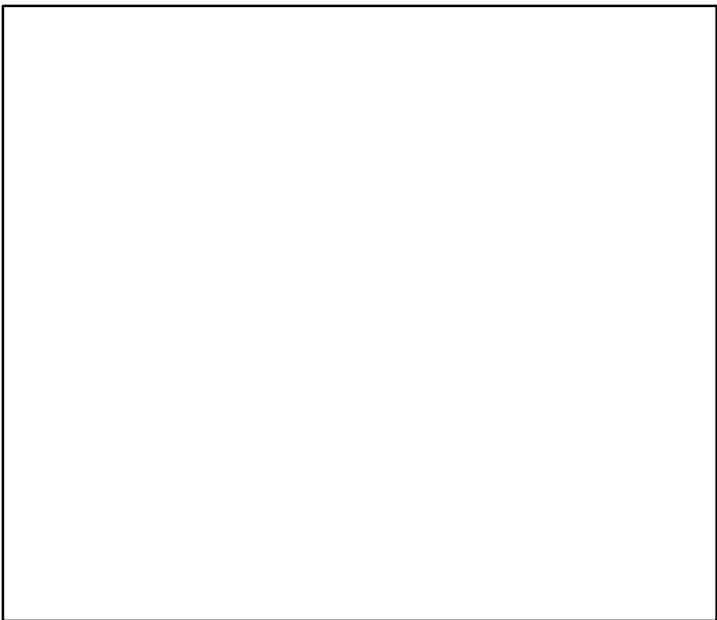
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

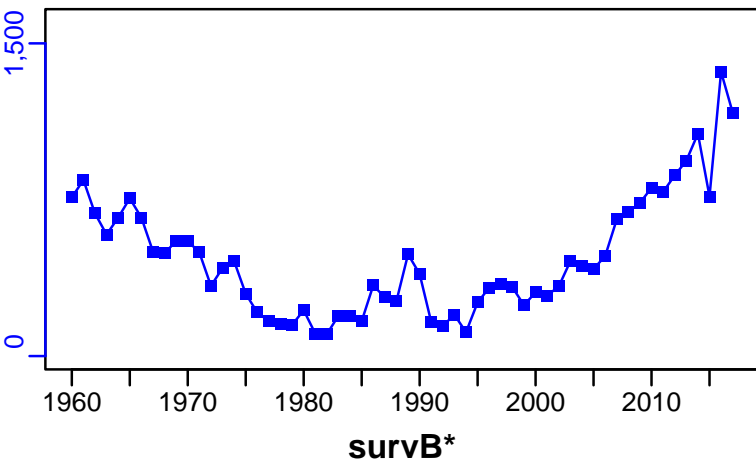


Recruits*

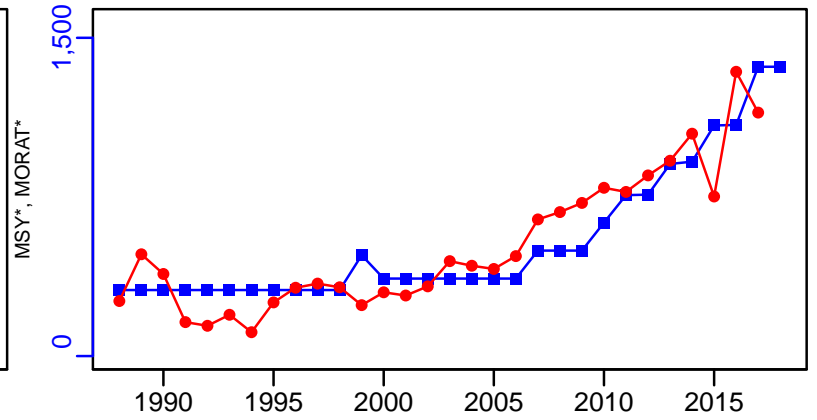


Atlantic halibut Gulf of St. Lawrence [ATHAL4RST]

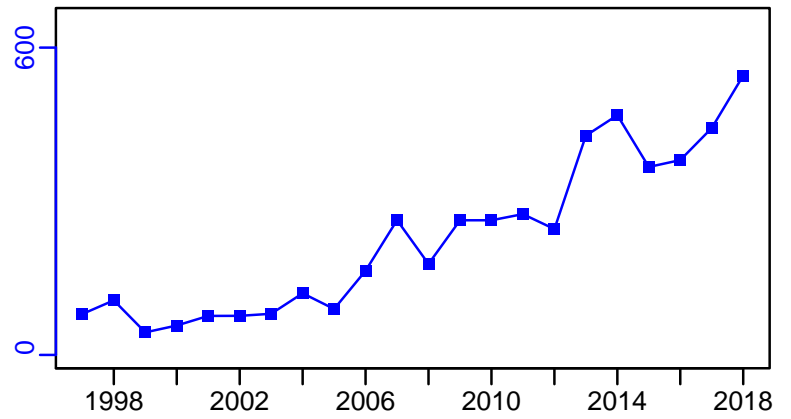
TC-MT, TL*, RecC* (1960–2018–ASHBROOK)



TAC-MT, Cpair-MT, Cadv* (1960–2018–ASHBROOK)



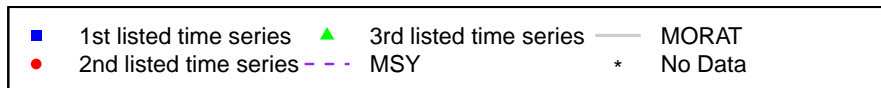
CPUE-index (1960–2018–ASHBROOK)



EFFORT*



CdivMSY*



Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

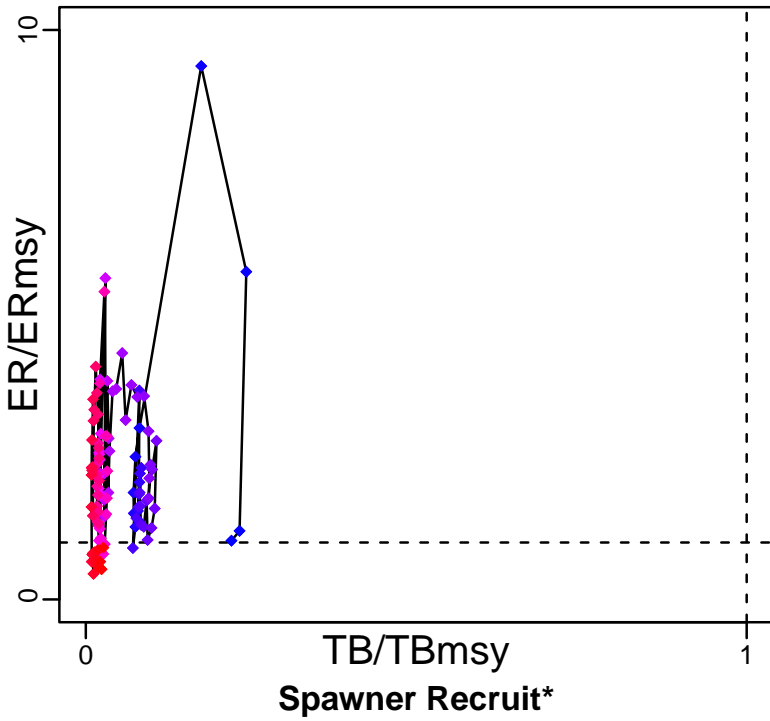
Metadata	
Scientific Name	Hippoglossus hippoglossus
Current Assess ID	NEFSC-ATHAL5YZ-2002-2021-SISIMP2024
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016, 2018, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	49,000
SSBmsy	SSBmsy-MT	2007	49,000
Fmsy	Fmsy-1/yr	2007	0.073
ERmsy	ERmsy-ratio	2007	0.071
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2007	3500
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

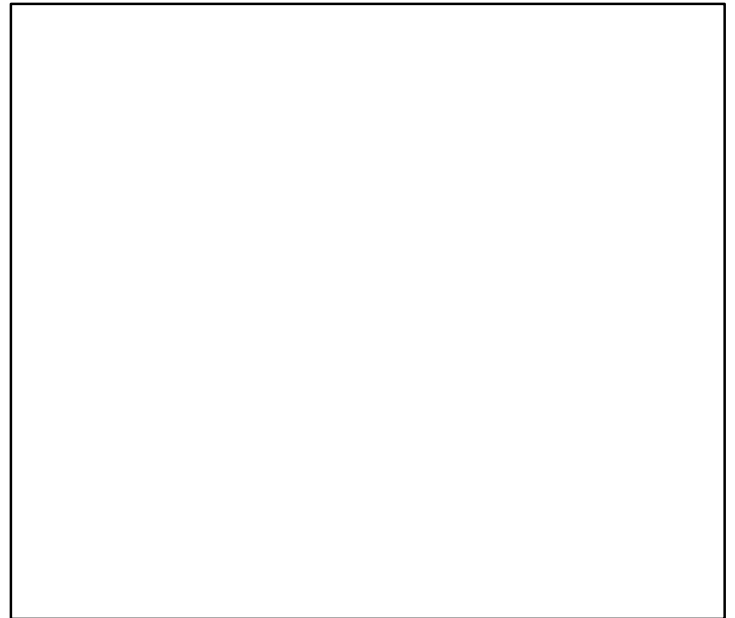
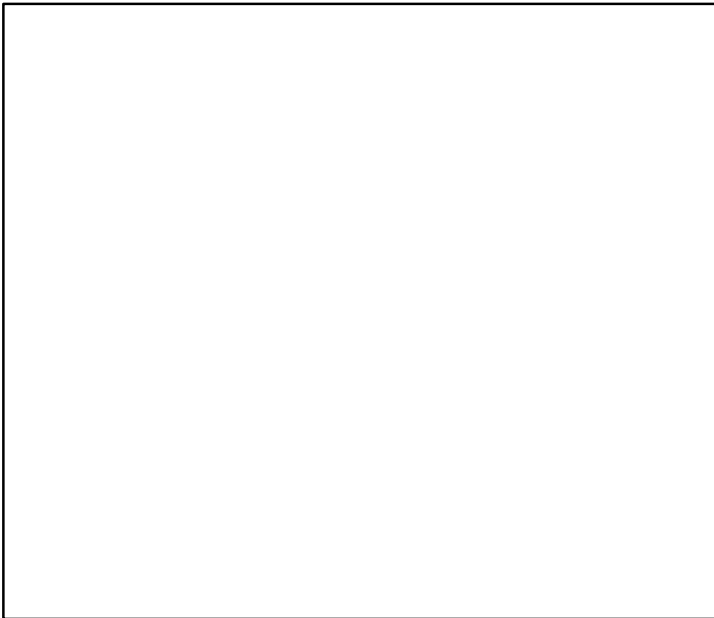
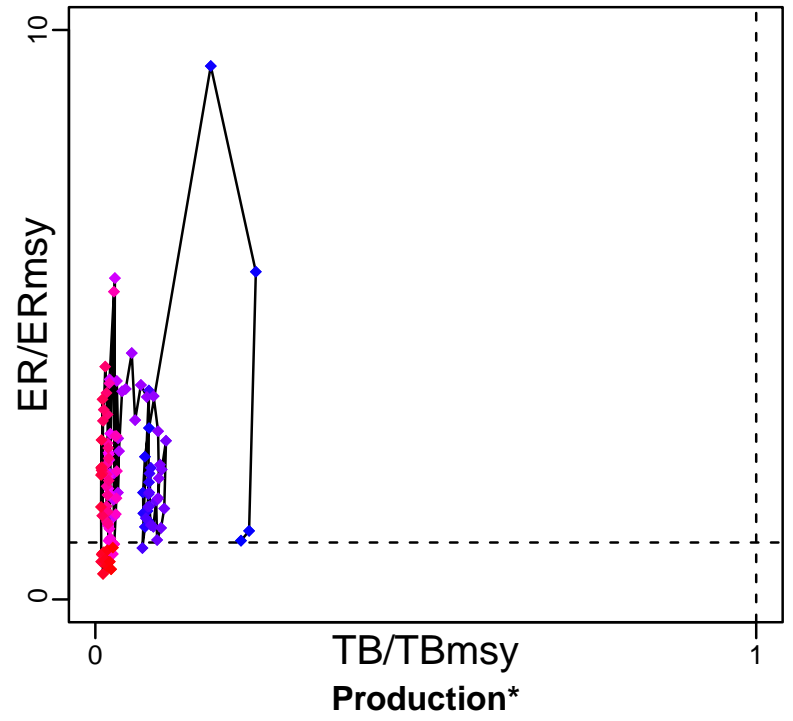
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	1300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2007	0.065	-	-
ER	ER-ratio	2007	0.065	-	-
TC	TC-MT	2021	185		
TL	TL-MT	2007	52		
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.027		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.89		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.91		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

Kobe MSYpref (1800–2007–COL)



Kobe MGTpref (1800–2007–COL)

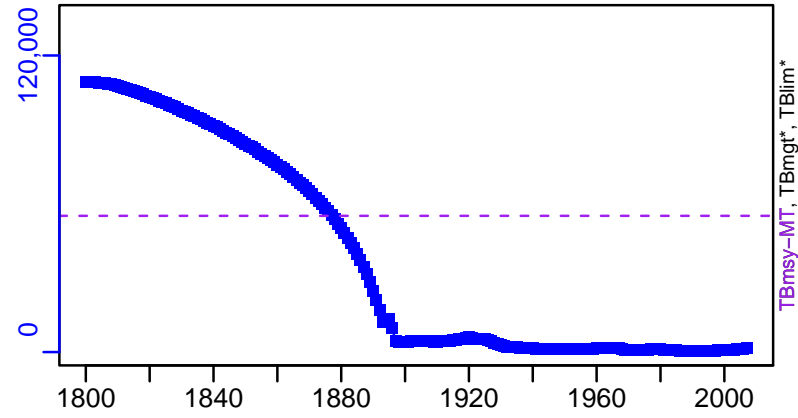


◆ Start Year ◆ End Year * No Data

Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

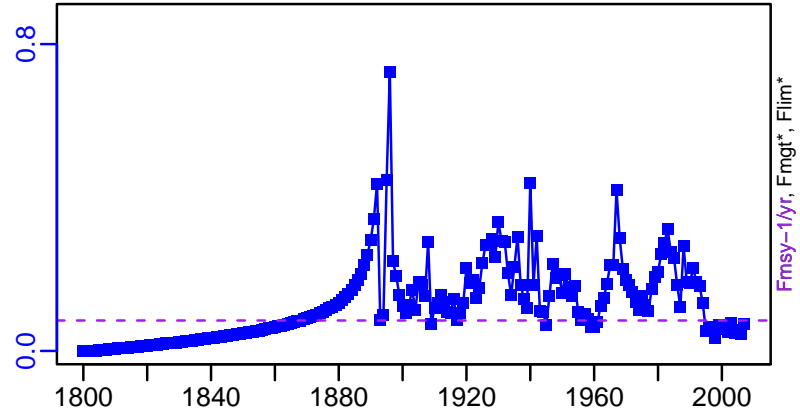
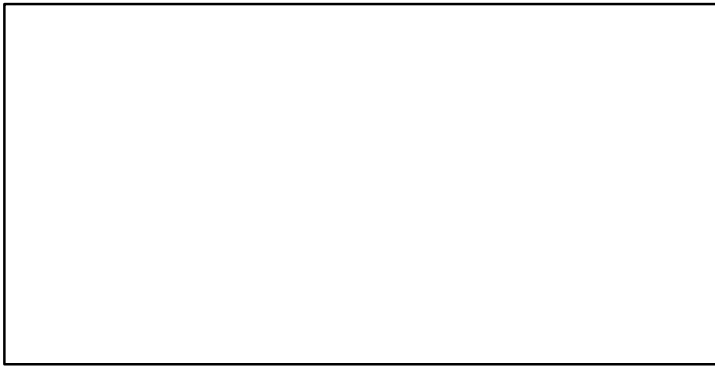
TB-MT (1800–2007–COL)

SSB*



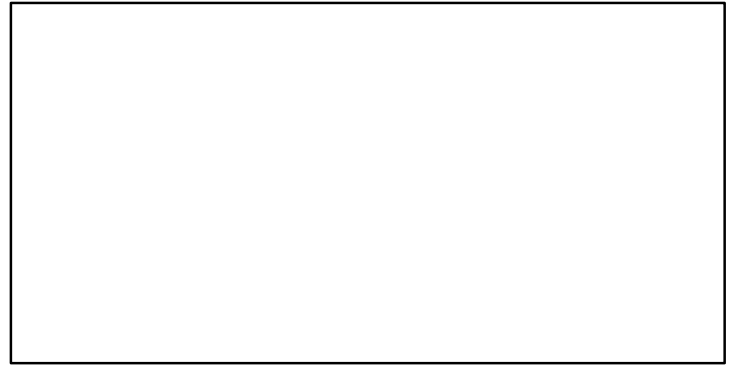
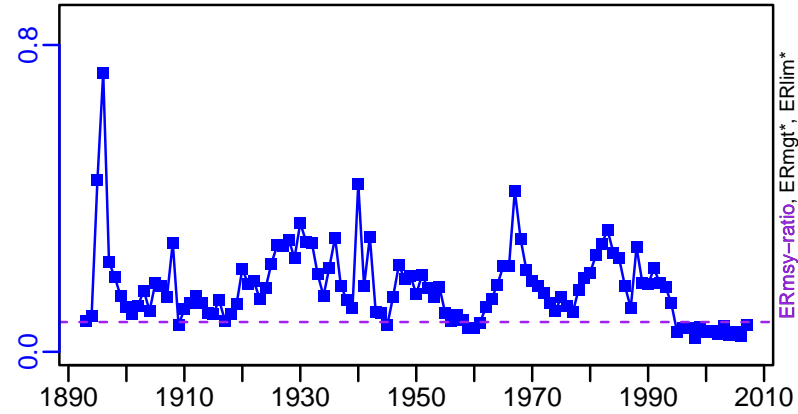
TN *

F-1/yr (1800–2007–COL)



ER-ratio (1800–2007–COL)

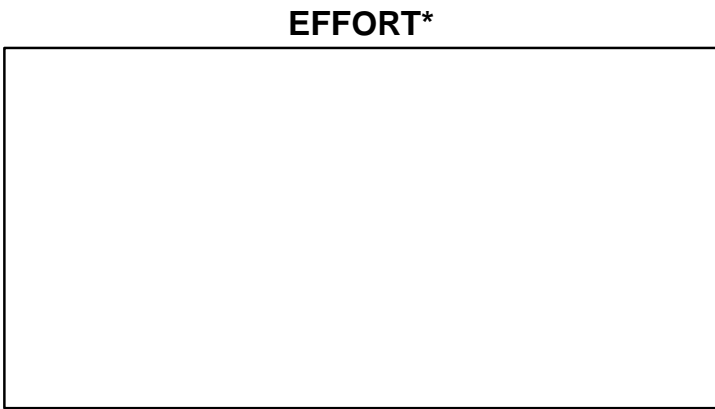
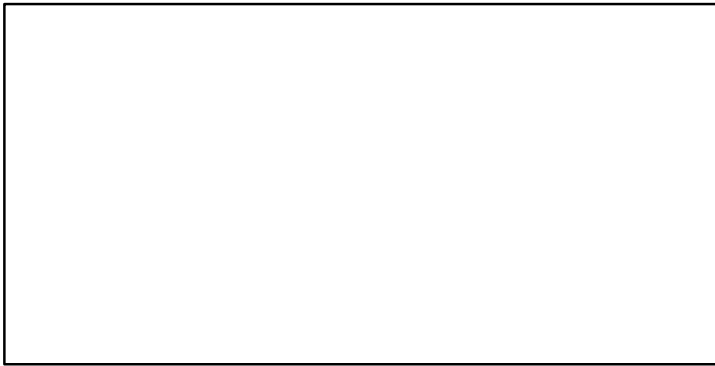
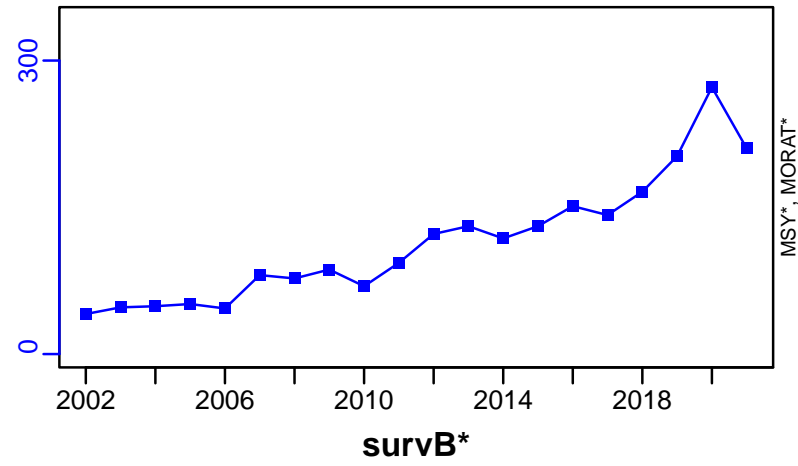
Recruits*



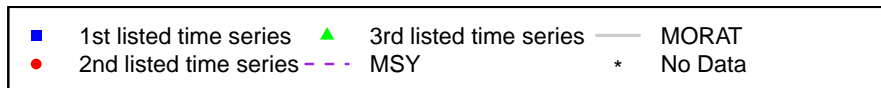
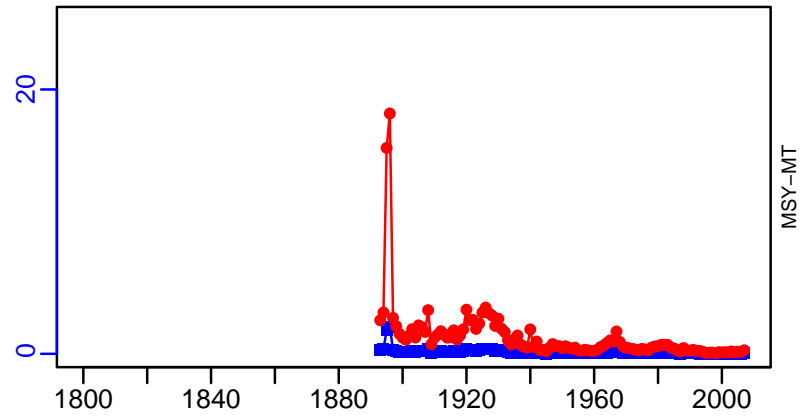
Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

TC-MT, TL*, RecC* (2002-2021-SISIMP2024)

TAC*, Cpair*, Cadv*



TC-MT/MSY-MT, CdivMEANC-ratio, (1800-2007-COL)



Baltic flounder Subdivisions 27 and 29-32 [BFLOUN27-2932]

Metadata	
Scientific Name	Platichthys solemdali
Current Assess ID	WGBFAS-BFLOUN27-2932-1980-2020-ICESIMP2021-2
Area	Subdivisions 27 and 29-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	149		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

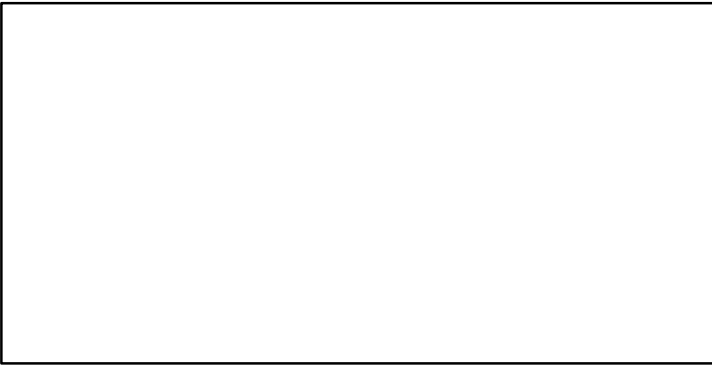


Production*

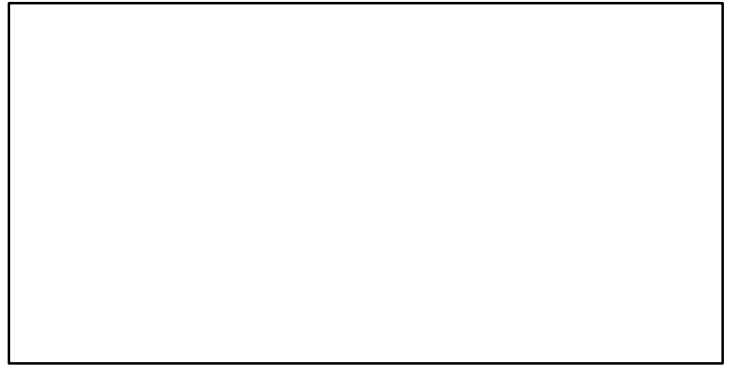


◆ Start Year ◆ End Year * No Data

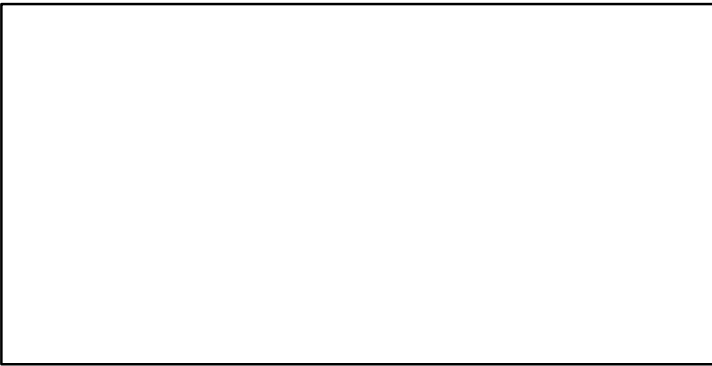
TB*



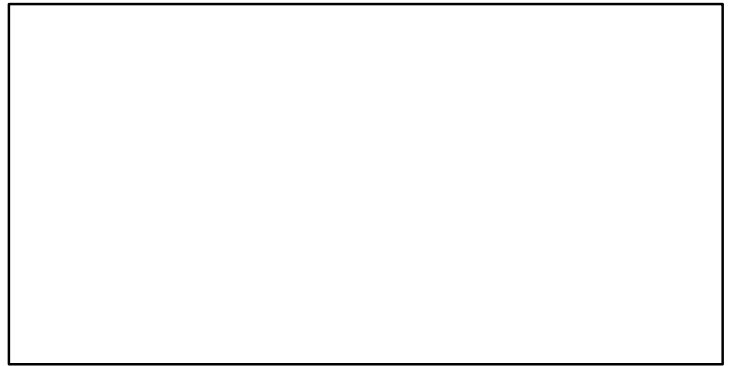
SSB*



TN *



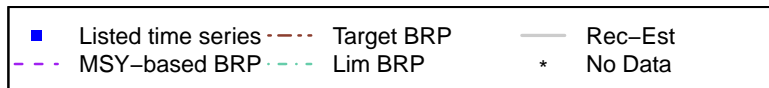
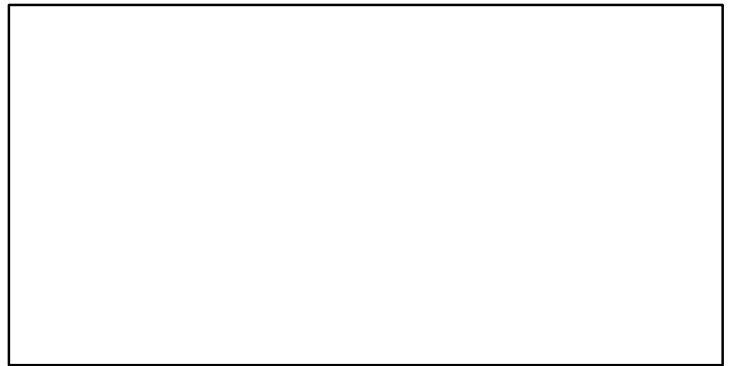
F*



ER*

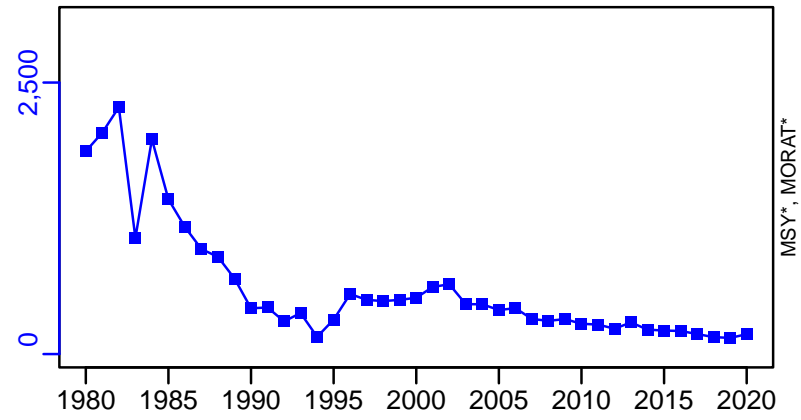


Recruits*



Baltic flounder Subdivisions 27 and 29–32 [BFLOUN27–2932]

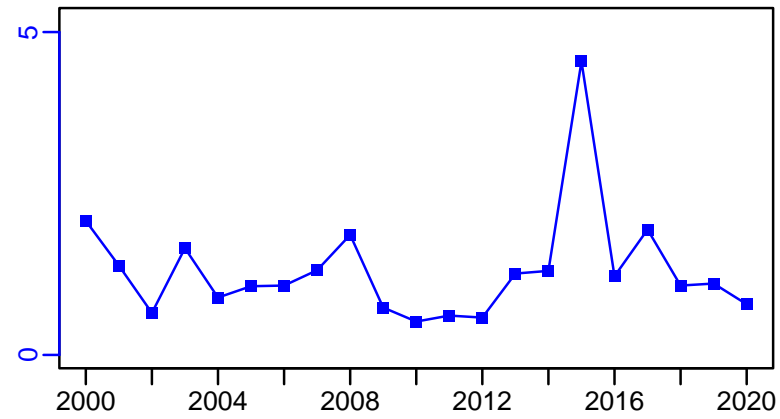
TL–MT, TC*, RecC* (1980–2020–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



survB–index (1980–2020–ICESIMP2021–2)



CPUE*



EFFORT*



CdivMSY*



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

Brill Baltic Areas 22-32 [BRILL2232]

Metadata	
Scientific Name	Scophthalmus rhombus
Current Assess ID	WGBFAS-BRILL2232-1970-2019-ICESIMP2021-2
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2016, 2016, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	0.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	32		
TL	TL-MT	2019	48		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

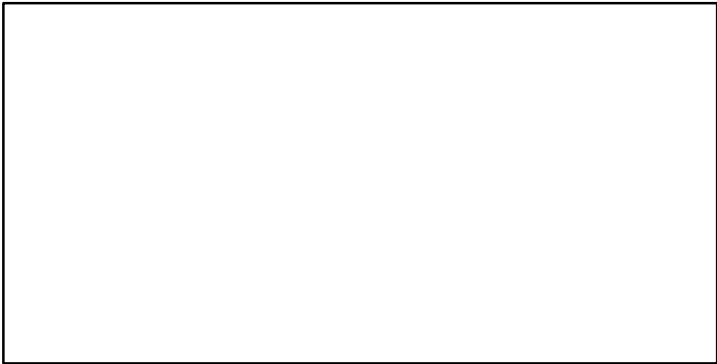


Production*

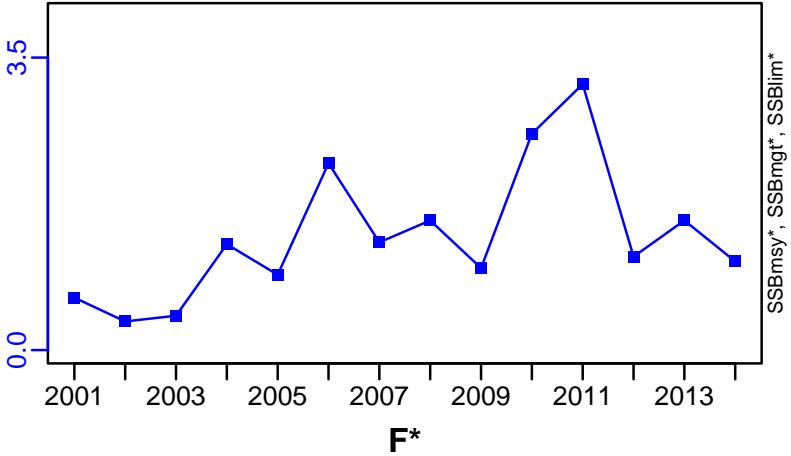


◆ Start Year ◆ End Year * No Data

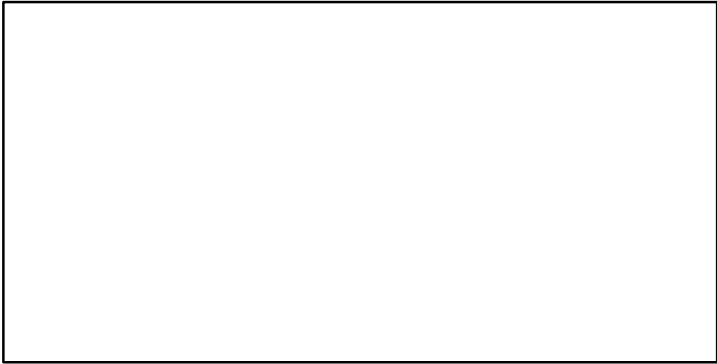
TB*



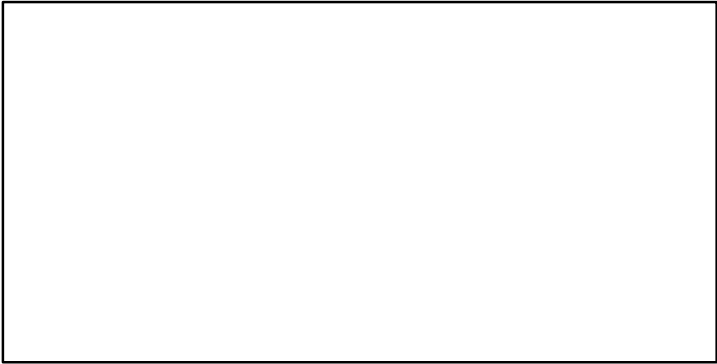
SSB-index (1970–2014–ICESIMP2018)



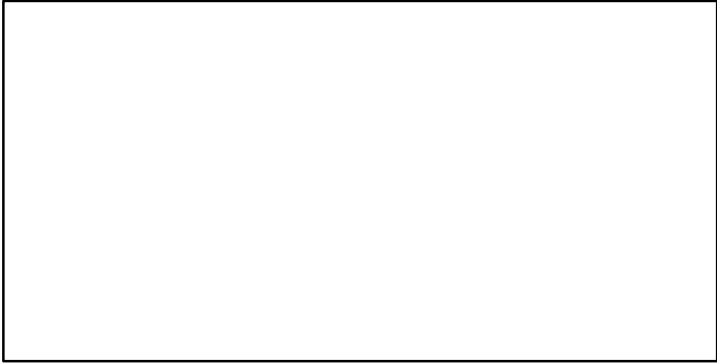
TN *



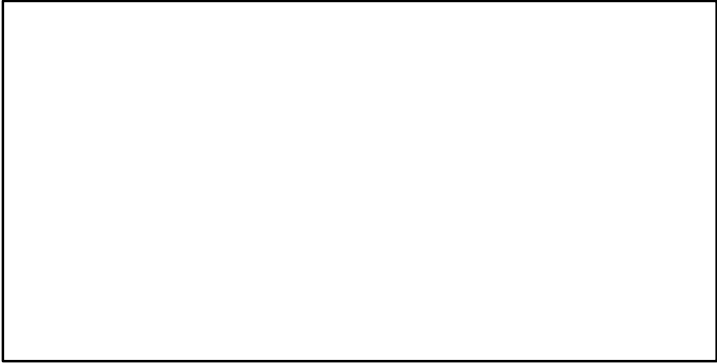
F*



ER*

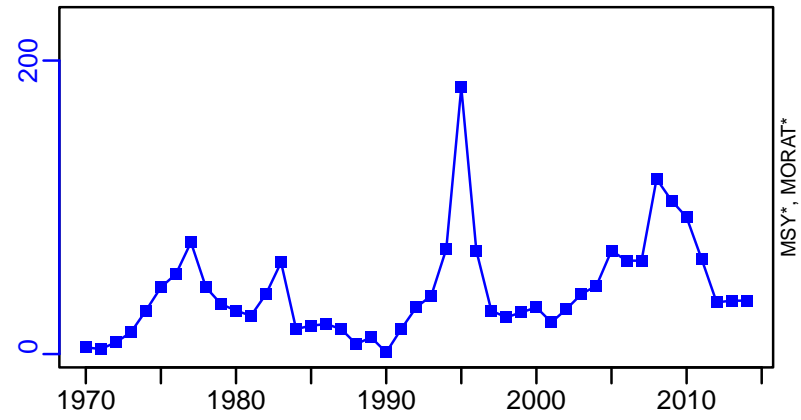


Recruits*



Brill Baltic Areas 22–32 [BRILL2232]

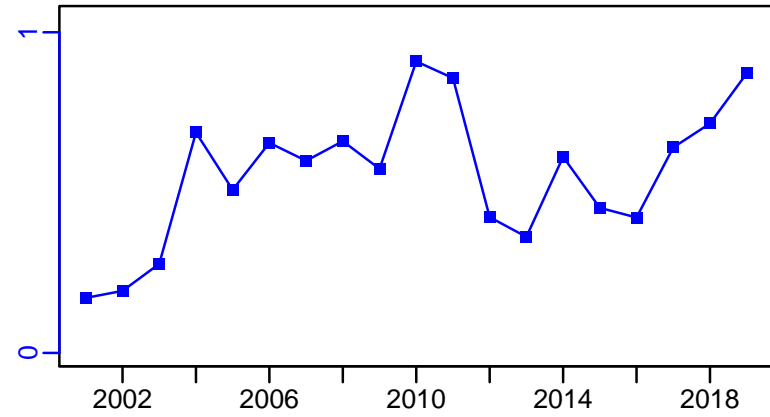
TC–MT, TL*, RecC* (1970–2014–ICESIMP2018)



TAC*, Cpair*, Cadv*



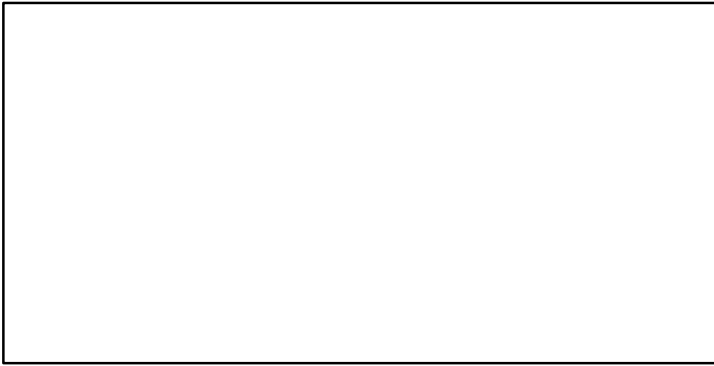
survB–index (1970–2019–ICESIMP2021–2)



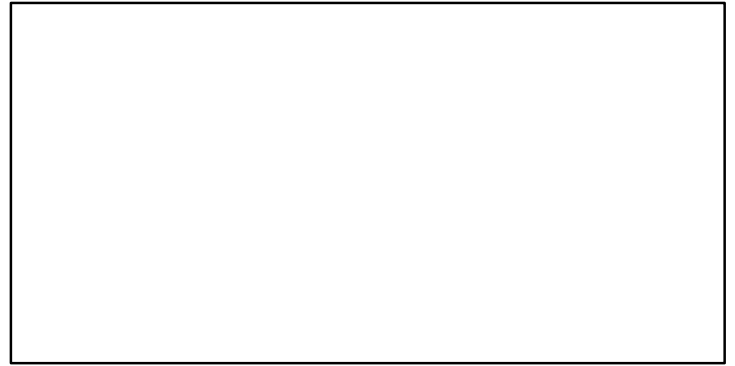
CPUE*



EFFORT*



CdivMSY*



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

Brill ICES 3a-4-7de [BRILLIIIa-IV-VIIde]

Metadata	
Scientific Name	Scophthalmus rhombus
Current Assess ID	WGNSSK-BRILLIIIa-IV-VIIde-1950-2020-ICESIMP2021-2
Area	ICES 3a-4-7de
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016, 2018, 2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	46	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2620		
TL	TL-MT	2020	1870		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

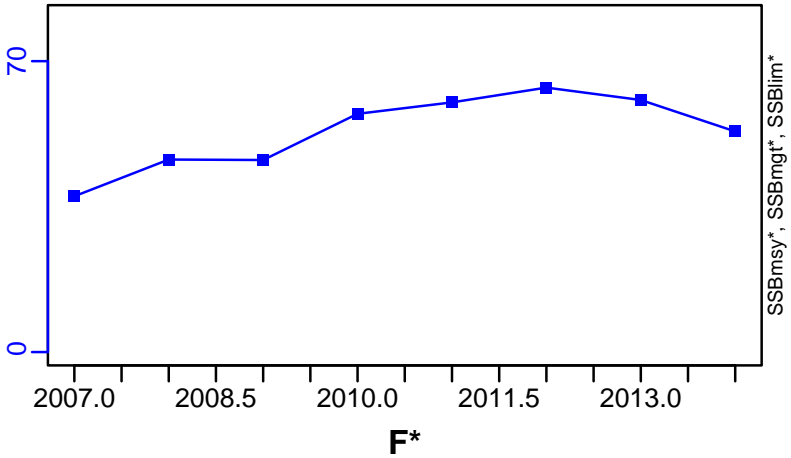


◆ Start Year ◆ End Year * No Data

TB*



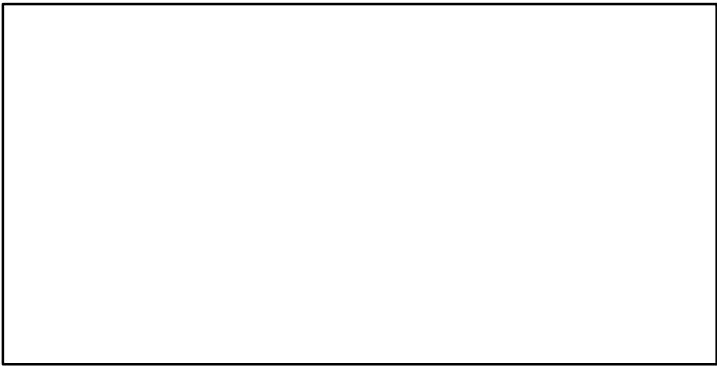
SSB-index (1950–2014–ICESIMP2018)



TN *



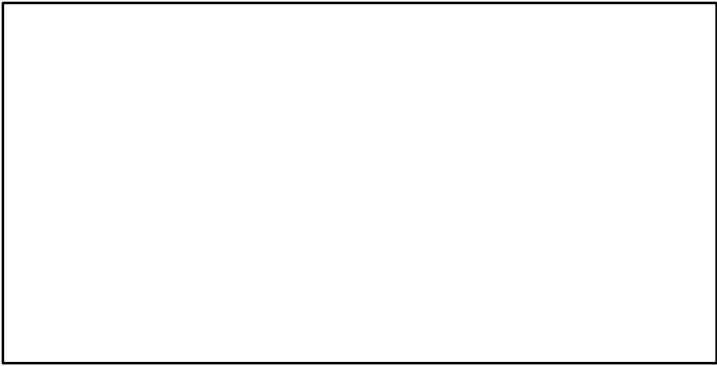
F*



ER*



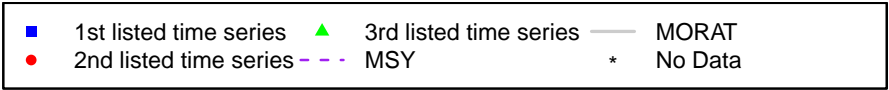
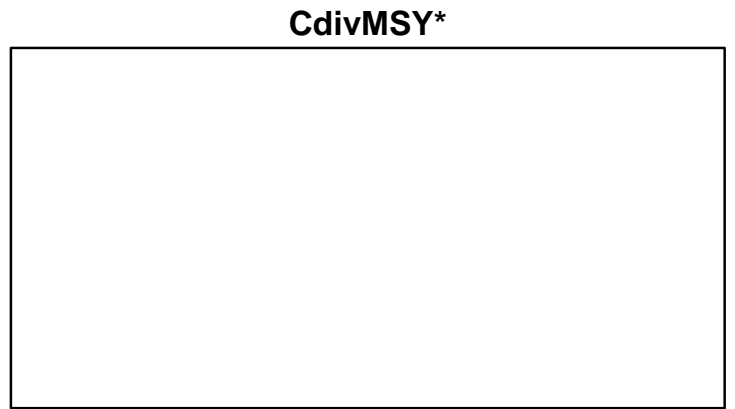
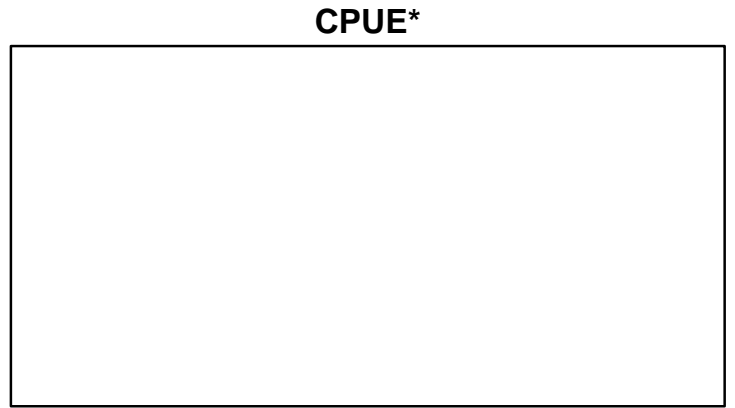
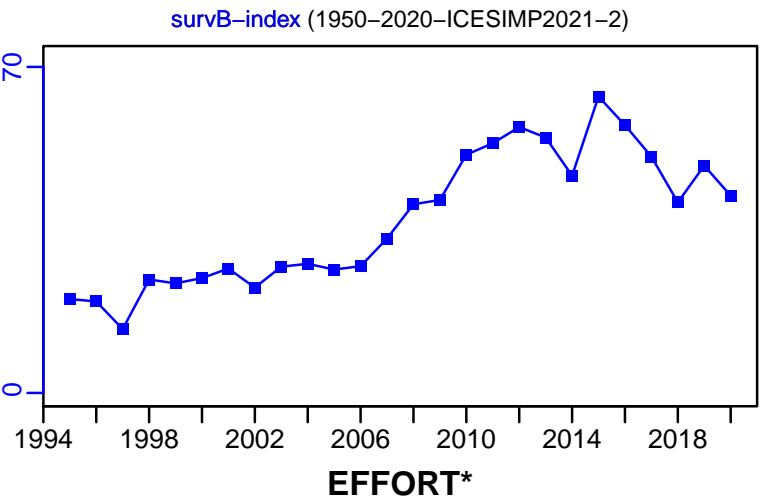
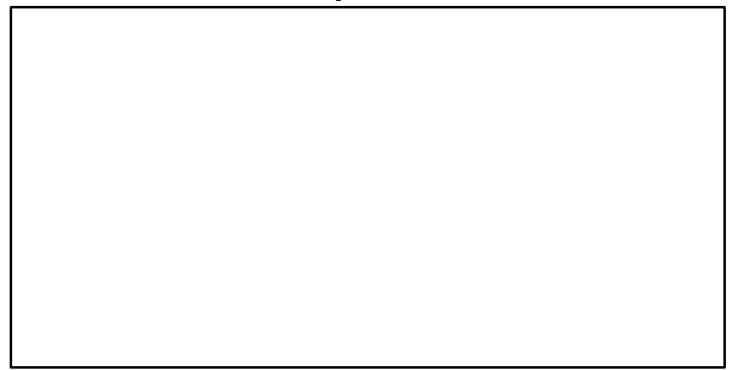
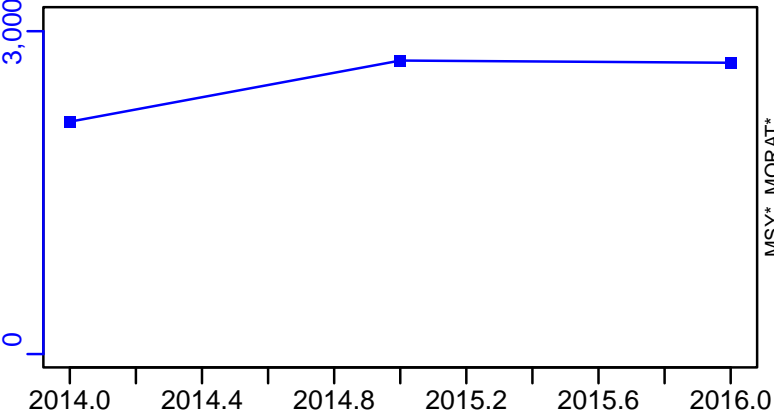
Recruits*



Brill ICES 3a-4-7de [BRILLIIIa-IV-VIId]

TC-MT, TL*, RecC* (1950-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Dab Baltic Areas 22-32 [DAB2232]

Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGBFAS-DAB2232-1970-2019-ICESIMP2021-2
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2019

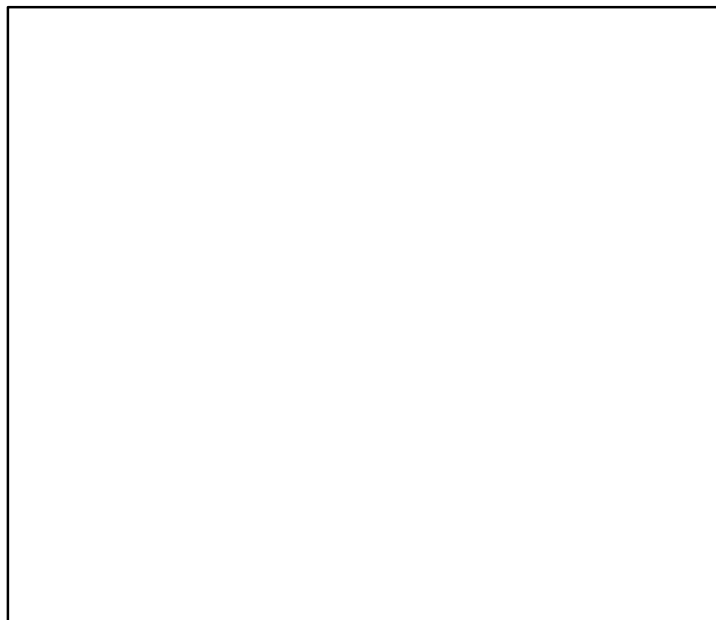
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	1900		
TL	TL-MT	2019	1100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

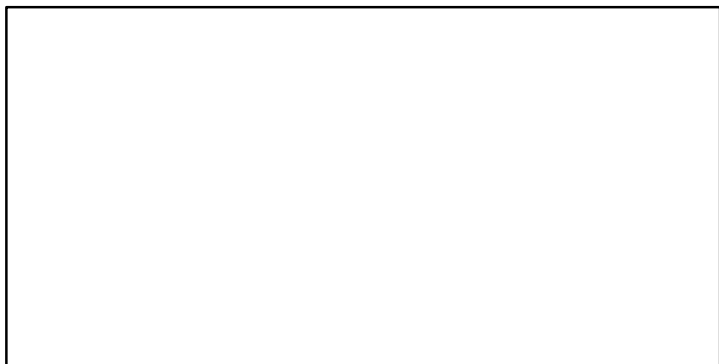


Production*

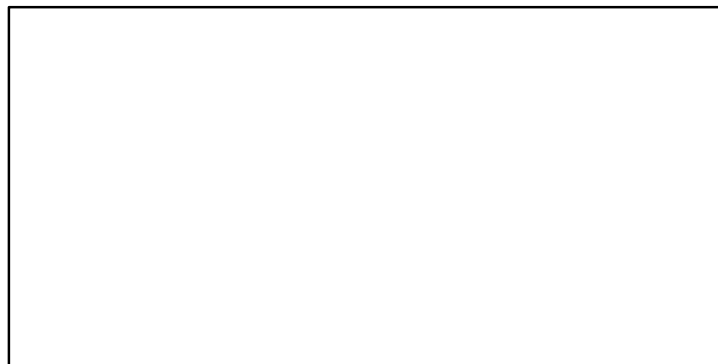


◆ Start Year ◆ End Year * No Data

TB*



SSB*



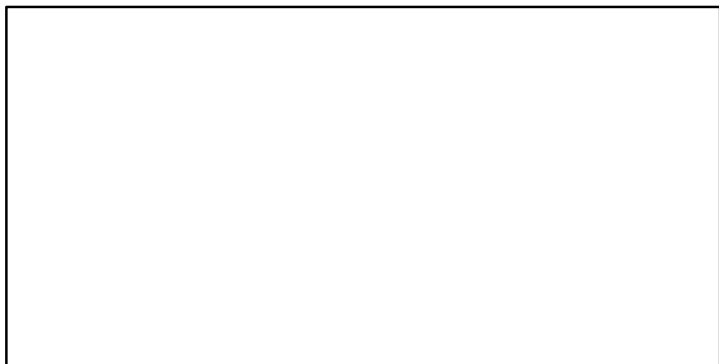
TN *



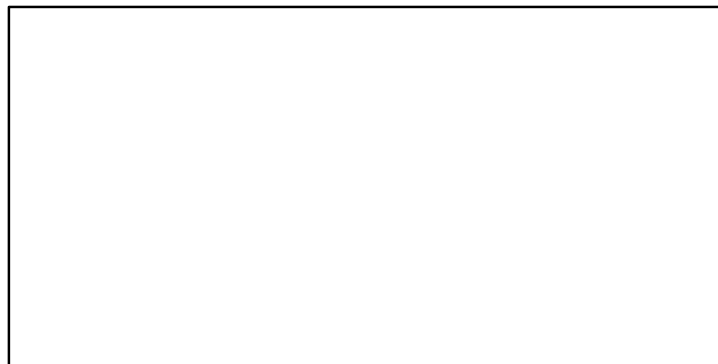
F*



ER*

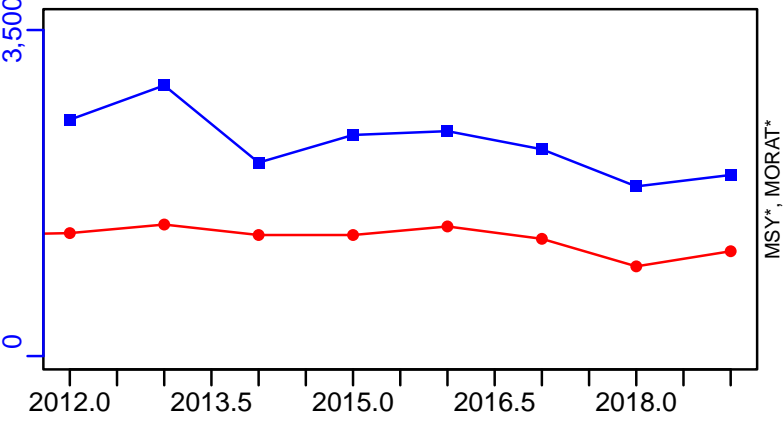


Recruits*



Dab Baltic Areas 22–32 [DAB2232]

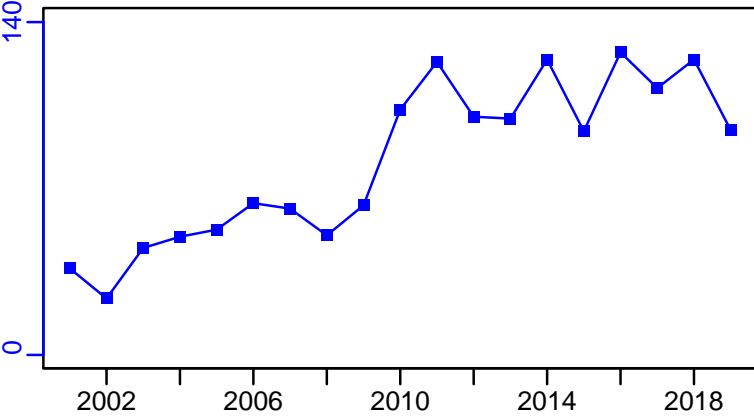
TC–MT, TL–MT, RecC* (1970–2019–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



survB–index (1970–2019–ICESIMP2021–2)



CPUE*



EFFORT*



CdivMSY*



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

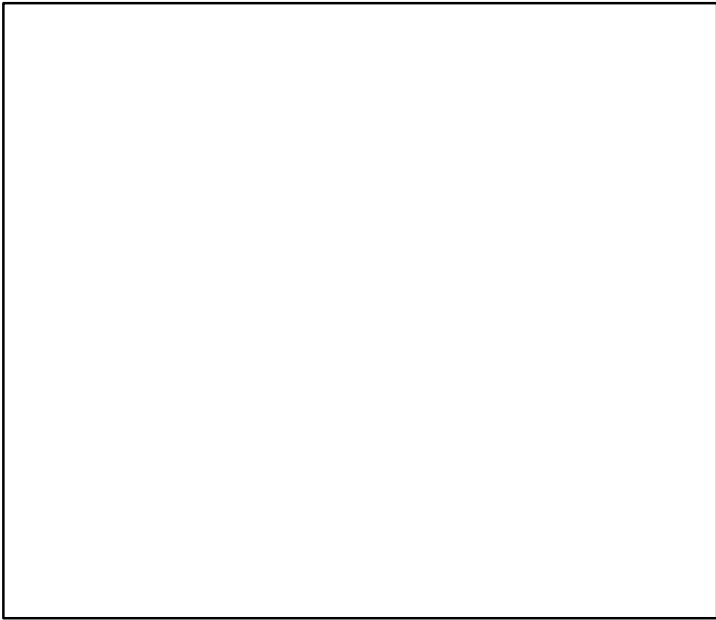
Dab ICES 3a-4 [DABIIIa-IV]

Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGNSSK-DABIIIa-IV-1965-2018-ICESIMP2021
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2018	1.166	-	-
SSB	SSB-relative	2018	1.212	-	-
TN	-	-	-	-	-
R	R-relative	2018	0.545	-	-
F	F-relative	2018	1.145	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	44,792		
TL	TL-MT	2018	4233		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

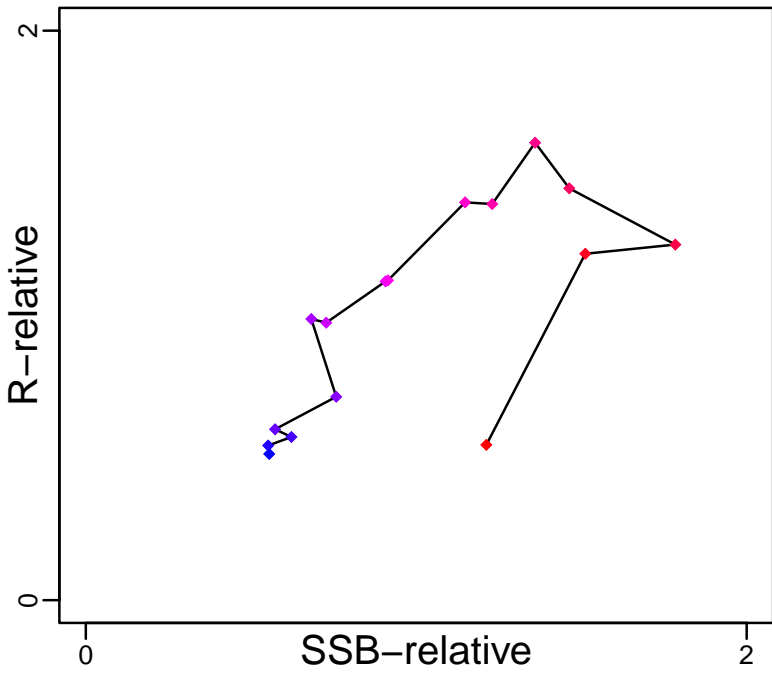
Kobe MSY*



Kobe MGT*

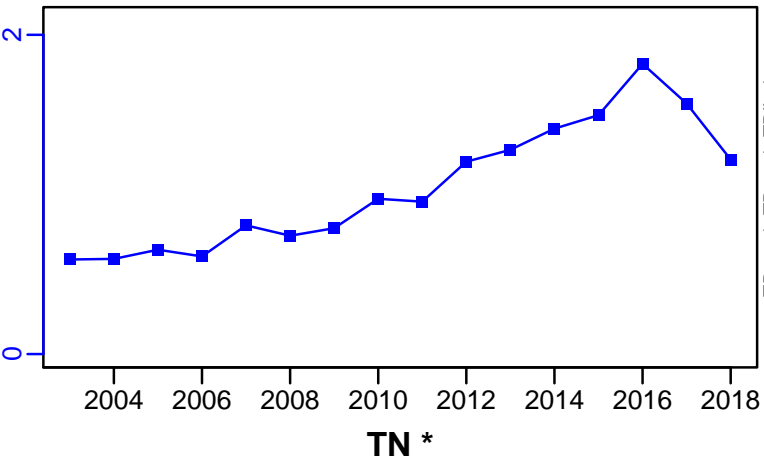


Spawner Recruit (1965-2018-ICESIMP2021)

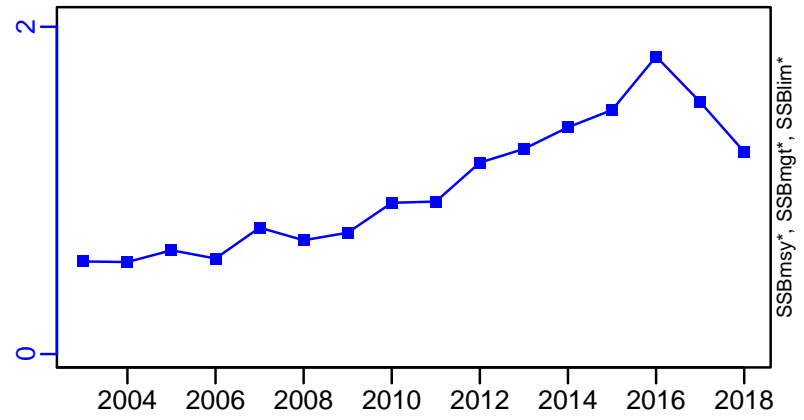


Dab ICES 3a-4 [DABIIIa-IV]

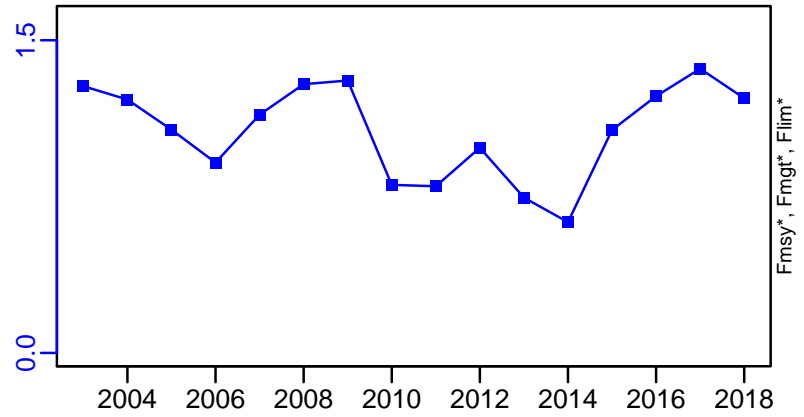
TB-relative (1965-2018-ICESIMP2021)



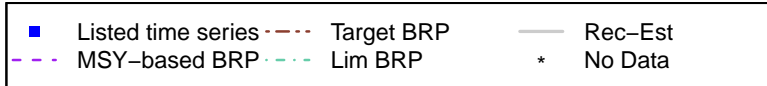
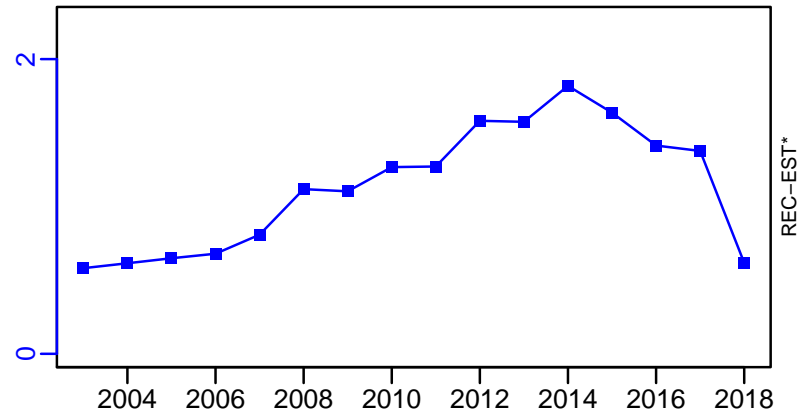
SSB-relative (1965-2018-ICESIMP2021)



F-relative (1965-2018-ICESIMP2021)

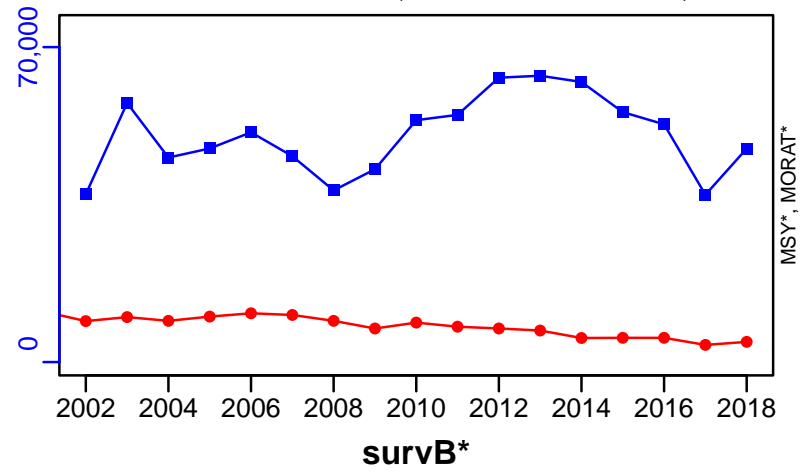


R-relative (1965-2018-ICESIMP2021)



Dab ICES 3a-4 [DABIIIa-IV]

TC-MT, TL-MT, RecC* (1965-2018-ICESIMP2021)



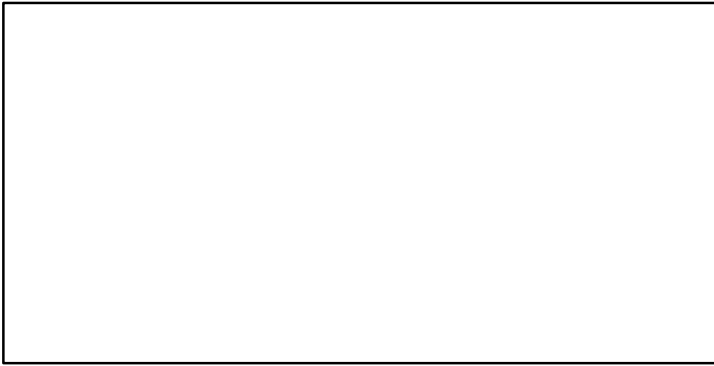
TAC*, Cpair*, Cadv*



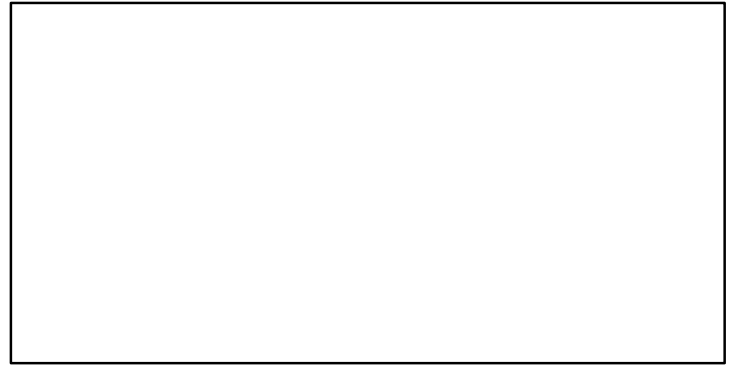
CPUE*



EFFORT*



CdivMSY*



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

Dover sole Gulf of Alaska [DSOLEGA]

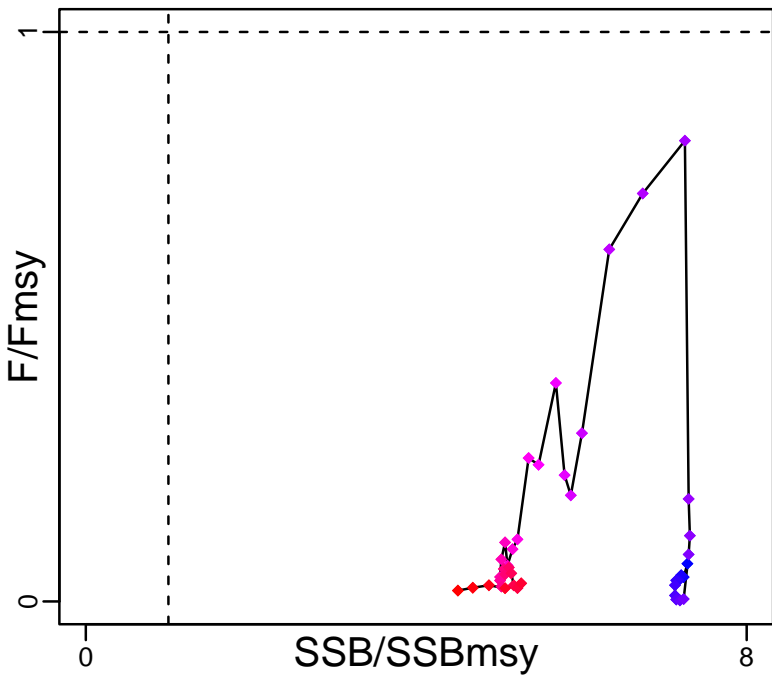
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	AFSC-DSOLEGA-1978-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2009, 2015, 2016, 2017, 2019

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

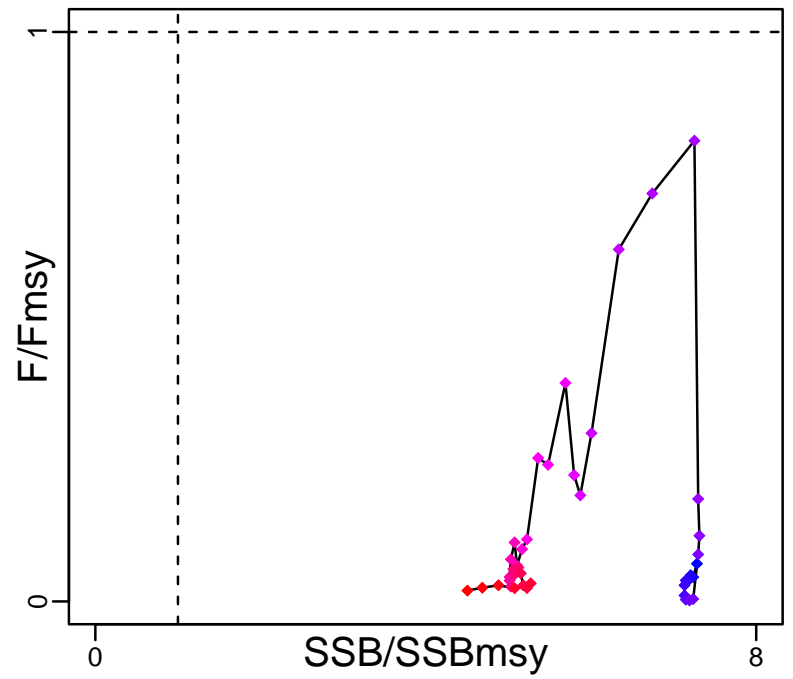
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	141,000	-	0+
SSB	SSB-MT	2019	28,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	11,600,000	-	0
F	F-1/yr	2019	0.002	-	-
ER	ER-calc-ratio	2015	0.003	-	-
TC	TC-MT	2019	144		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	4.339		
F/Fmsy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

Dover sole Gulf of Alaska [DSOLEGA]

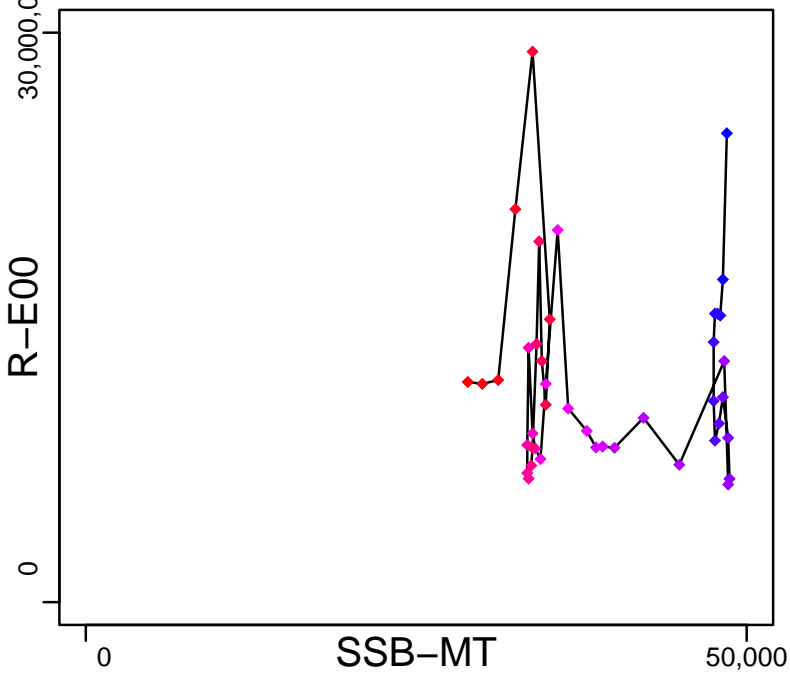
Kobe MSYpref (1978–2019–SISIMP2021–2)



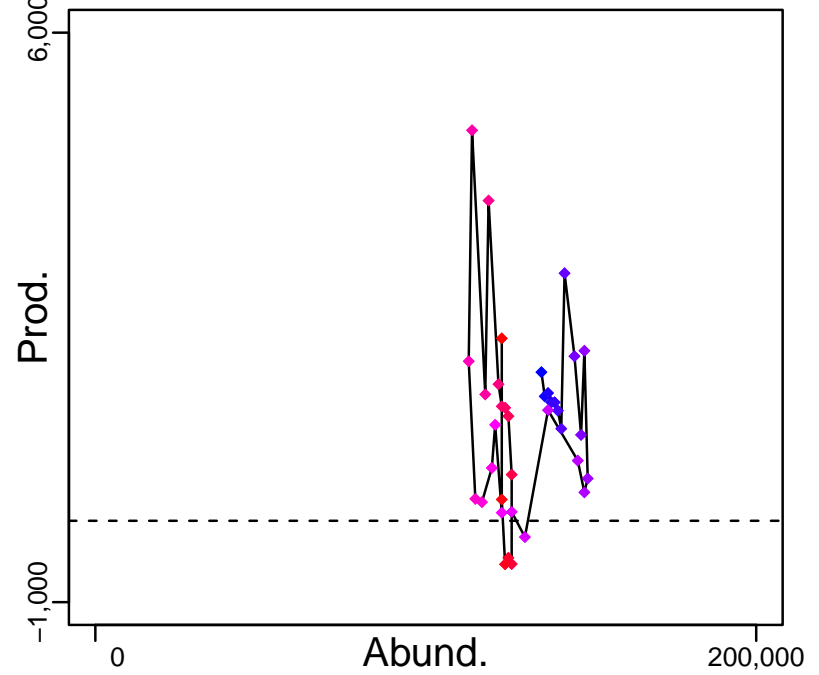
Kobe MGTpref (1978–2019–SISIMP2021–2)



Spawner Recruit (1978–2019–SISIMP2021–2)



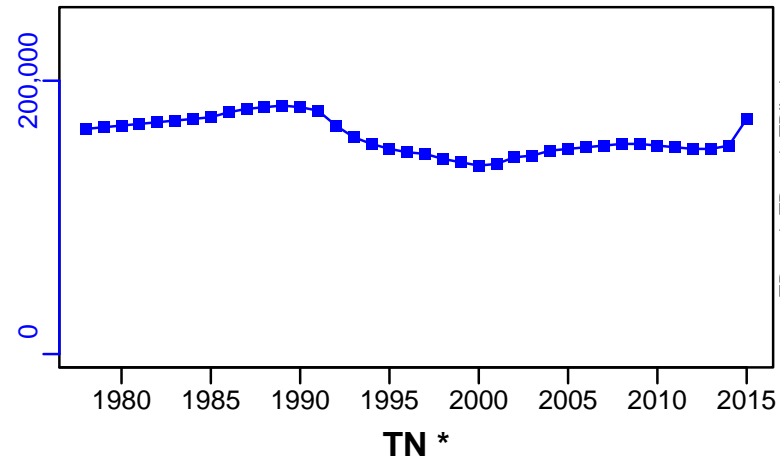
Production (1978–2015–SISIMP2016)



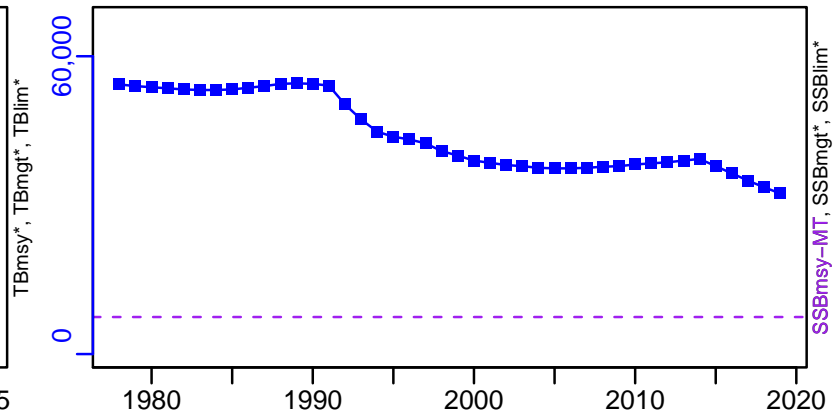
◆ Start Year ◆ End Year * No Data

Dover sole Gulf of Alaska [DSOLEGA]

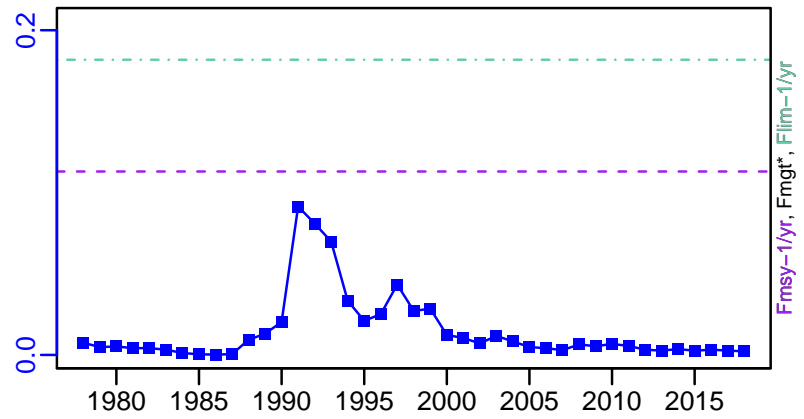
TB-MT (1978–2015–SISIMP2016)



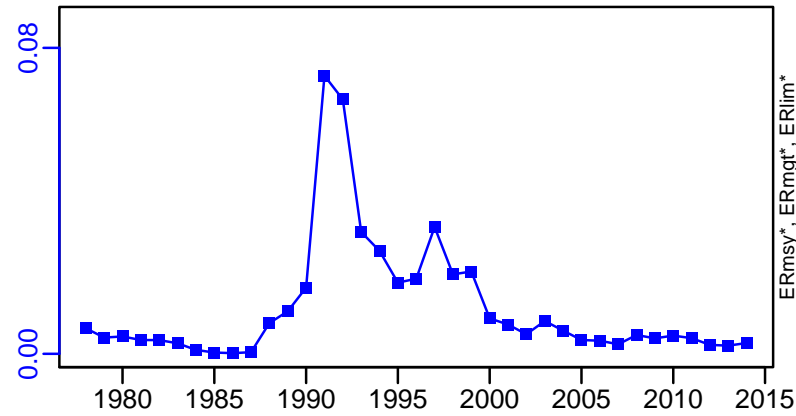
SSB-MT (1978–2019–SISIMP2021–2)



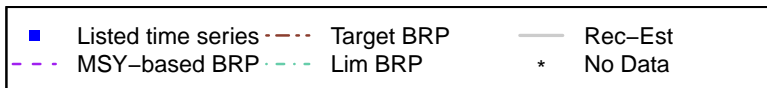
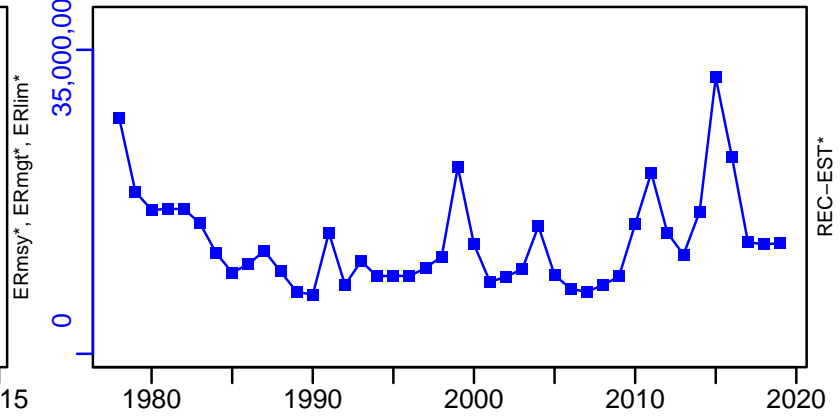
F-1/yr (1978–2019–SISIMP2021–2)



ER-calc-ratio (1978–2015–SISIMP2016)

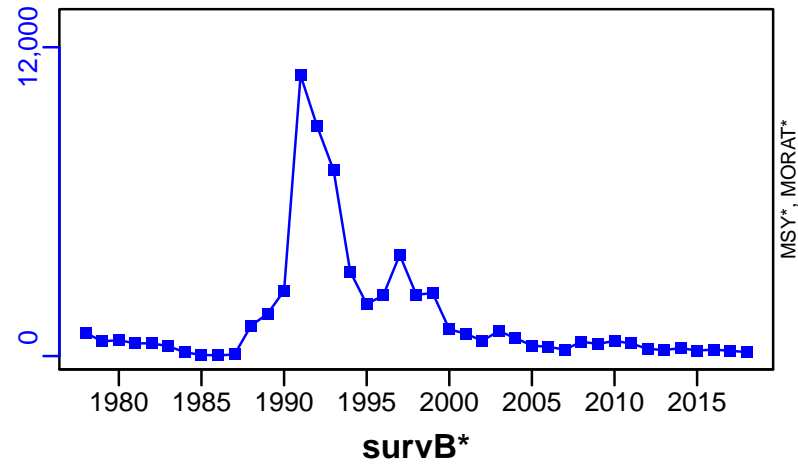


R-E00 (1978–2019–SISIMP2021–2)



Dover sole Gulf of Alaska [DSOLEGA]

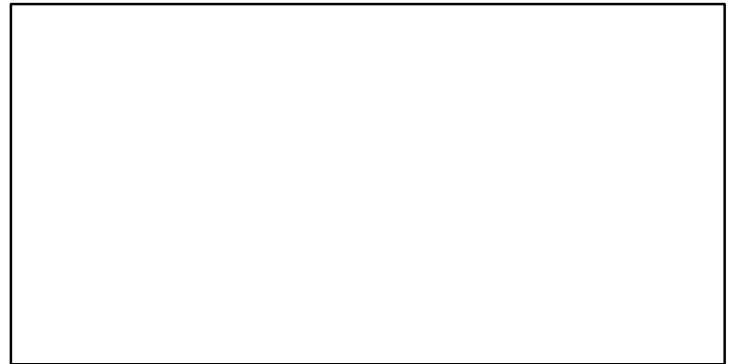
TC-MT, TL*, RecC* (1978-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Dover sole Pacific Coast [DSOLEPCOAST]

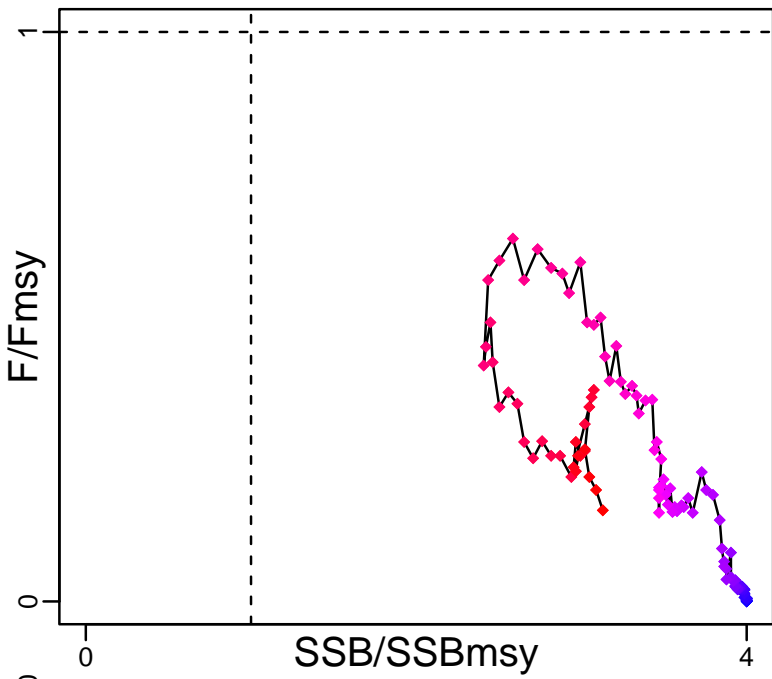
Metadata	
Scientific Name	Microstomus pacificus
Current Assess ID	SWFSC-DSOLEPCOAST-1911-2020-SISIMP2021-2
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2011, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	265,321
SSBmsy	SSBmsy-MT	2020	73,500
Fmsy	Fmsy-1/yr	2020	0.7
ERmsy	ERmsy-ratio	2011	0.131
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2011	821,271
SSB0	SSB0-MT	2011	469,866
MSY	MSY-MT	2020	22,900
M	M-1/yr	2011	0.101
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	36,800
Flim	Flim-1/yr	2020	0.7
ERlim	-	-	-

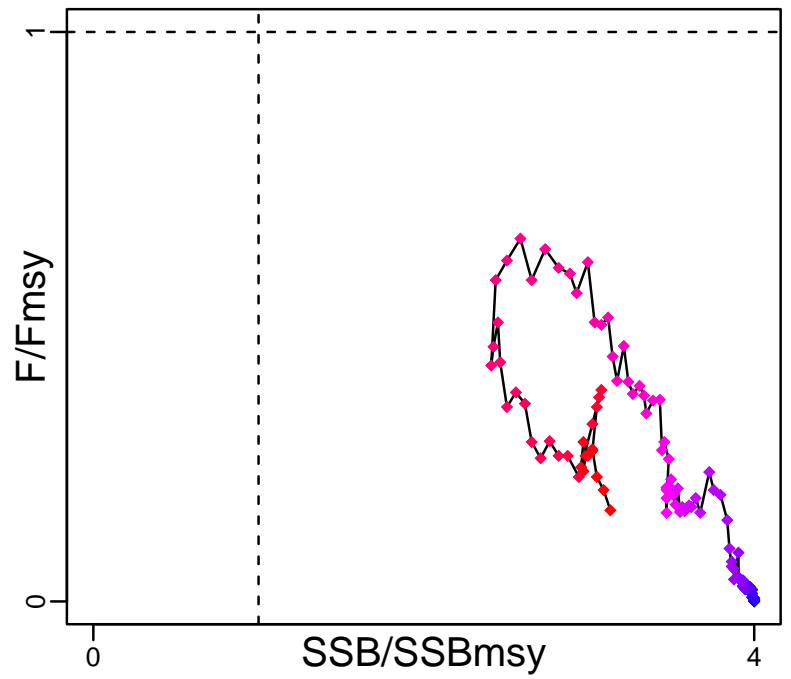
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	685,000	-	0+
SSB	SSB-MT	2020	230,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.09×10^8	-	0
F	F-1/yr	2020	0.112	-	-
ER	ER-ratio	2011	0.017	Both	5+
TC	TC-MT	2020	4710		
TL	TL-MT	2011	10,400		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	2.582		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	3.129		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.16		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Dover sole Pacific Coast [DSOLEPCOAST]

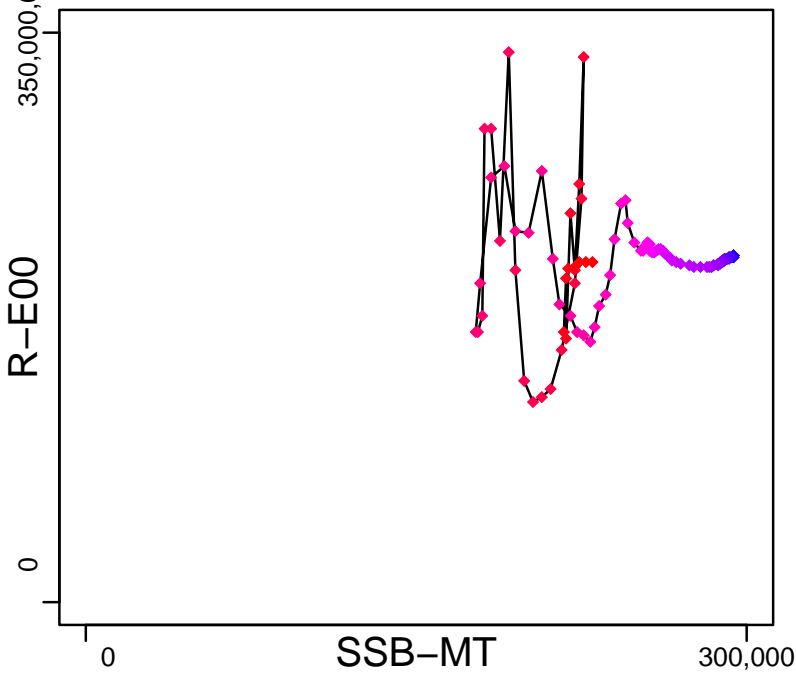
Kobe MSYpref (1911–2020–SISIMP2021–2)



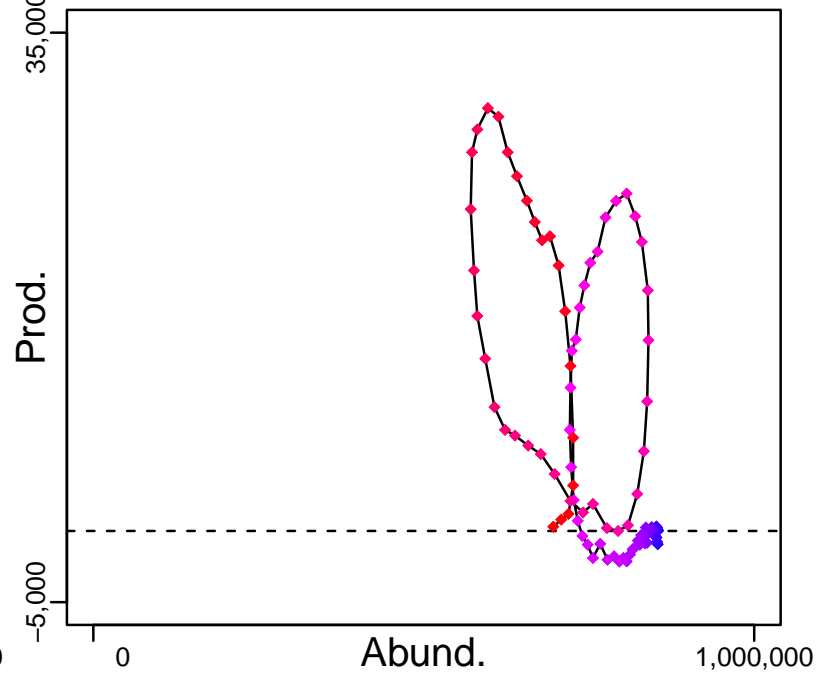
Kobe MGTpref (1911–2020–SISIMP2021–2)



Spawner Recruit (1911–2020–SISIMP2021–2)

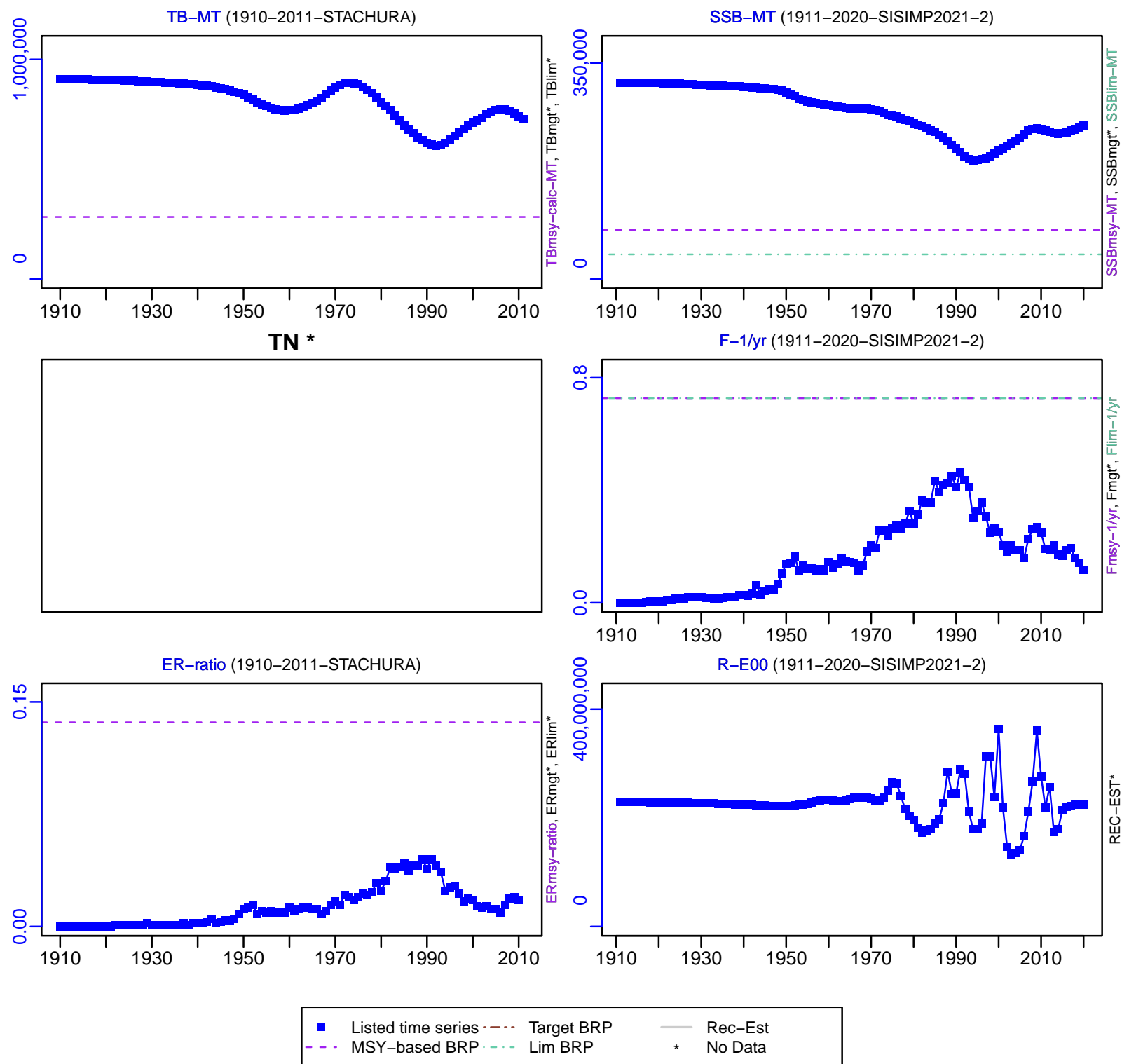


Production (1910–2011–STACHURA)



◆ Start Year ◆ End Year * No Data

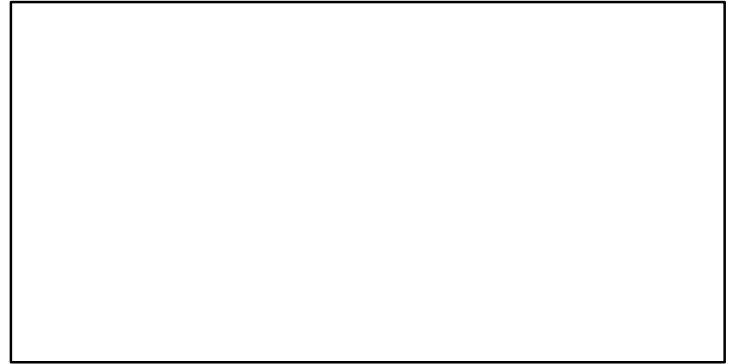
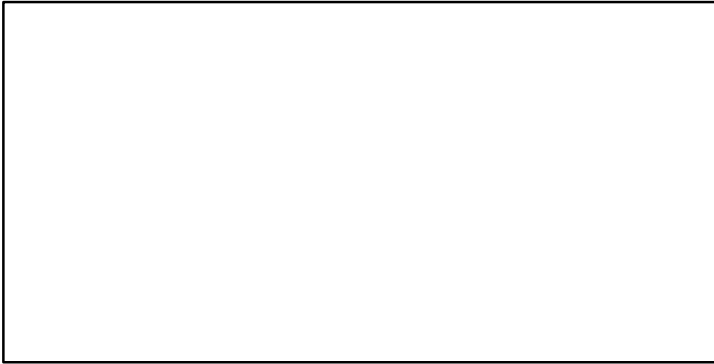
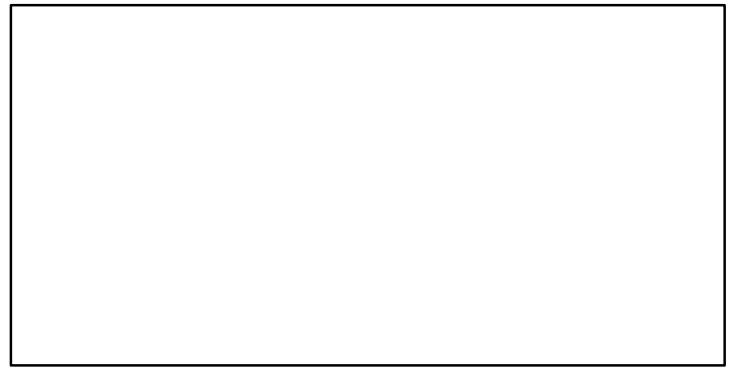
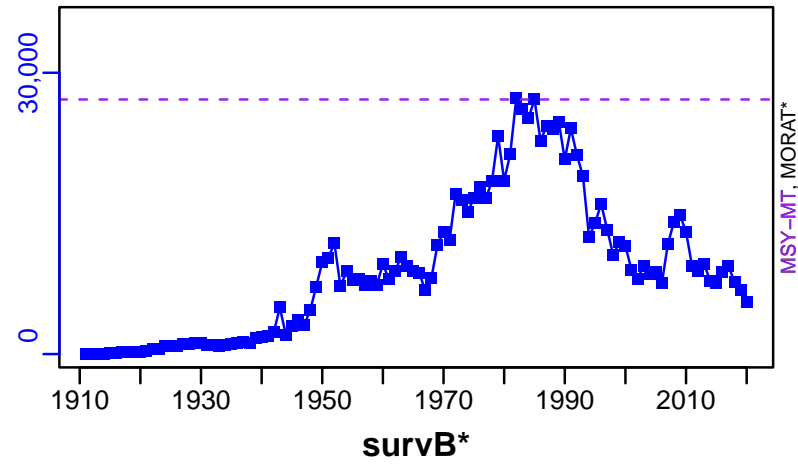
Dover sole Pacific Coast [DSOLEPCOAST]



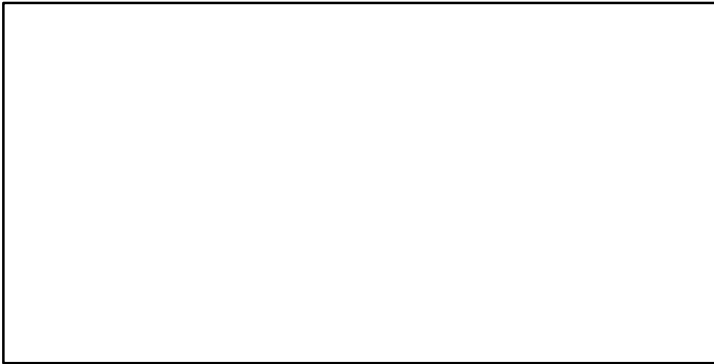
Dover sole Pacific Coast [DSOLEPCOAST]

TC-MT, TL*, RecC* (1911-2020-SISIMP2021-2)

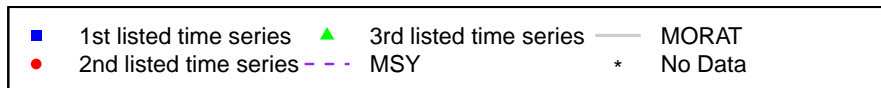
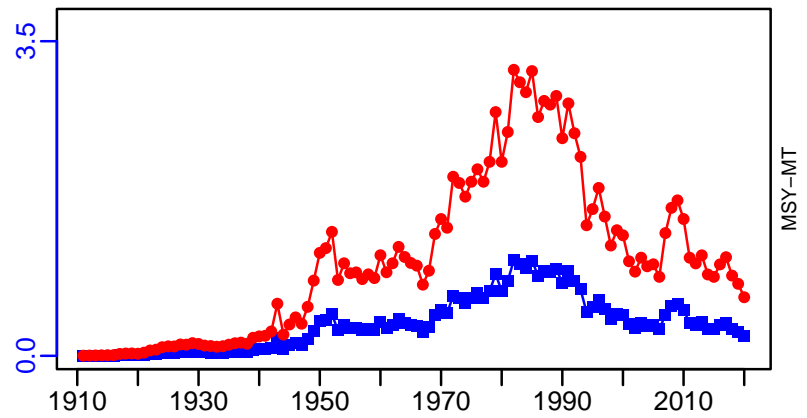
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1911-2020-SISIMP2021-2)



East coast sole South Africa South coast [ECSOLEASASC]

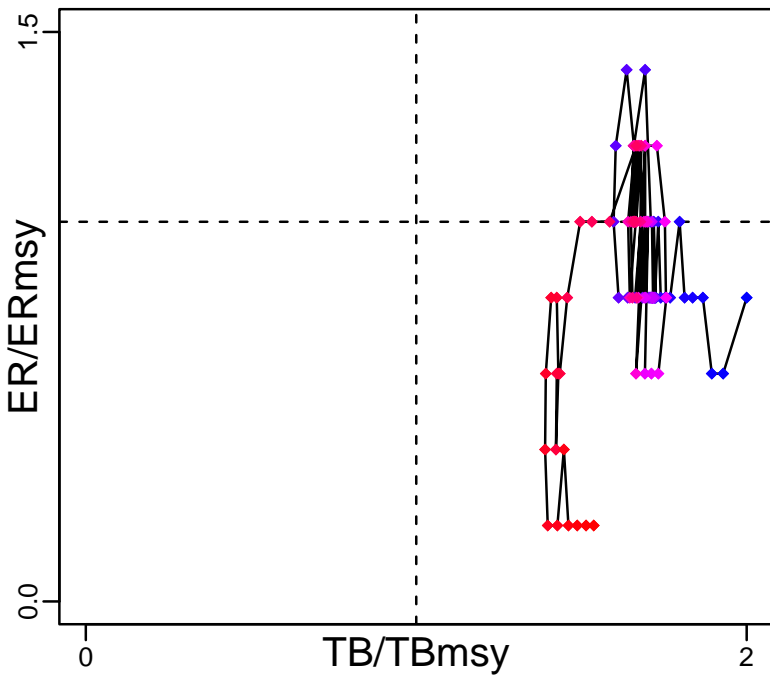
Metadata	
Scientific Name	Austroglossus pectoralis
Current Assess ID	FBDAFF-ECSOLEASASC-1920-2020-GLAZER
Area	South Africa South coast
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Assessor	Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Asmts in RAM	2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	9822
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-calc-ratio	2020	0.05
TBmgt	TBmgt-MT	2020	9822
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2020	491
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

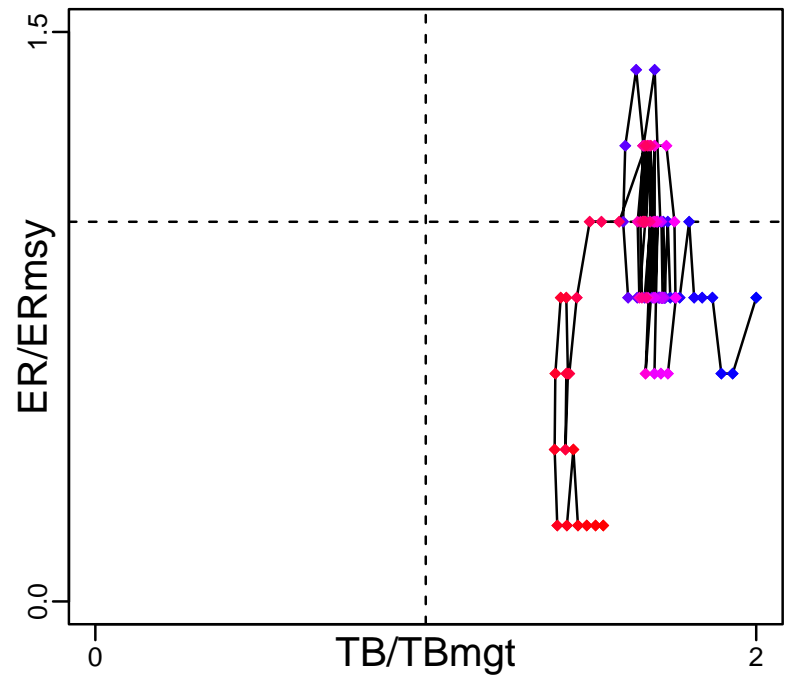
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	15,258	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.01	Both	-
TC	TC-MT	2020	190		
TL	TL-MT	2020	190		
TB/TBmsy	TB-MT/TBmsy-MT	2020	1.553		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2020	0.2		
TB/TBmgt	TB-MT/TBmgt-MT	2020	1.553		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

East coast sole South Africa South coast [ECSOLESASC]

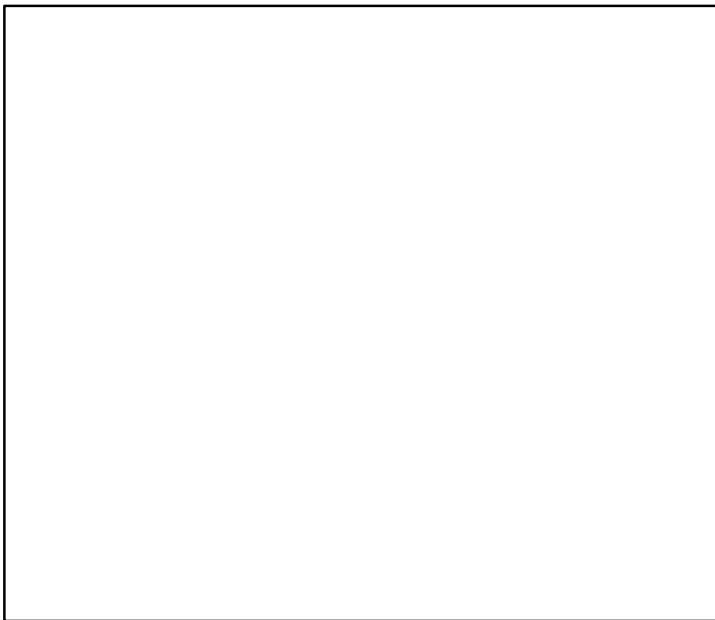
Kobe MSYpref (1920–2020–GLAZER)



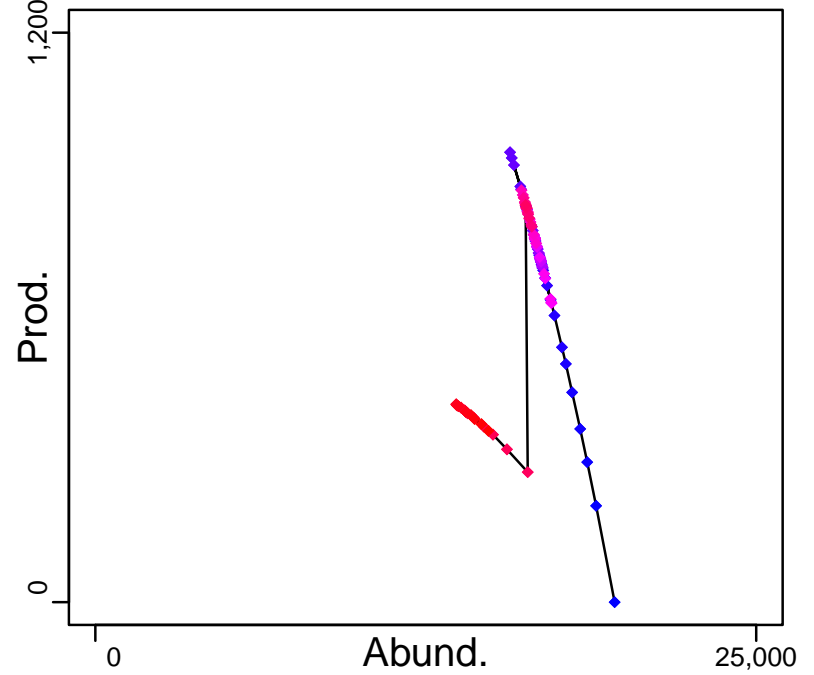
Kobe MGTpref (1920–2020–GLAZER)



Spawner Recruit*



Production (1920–2020–GLAZER)

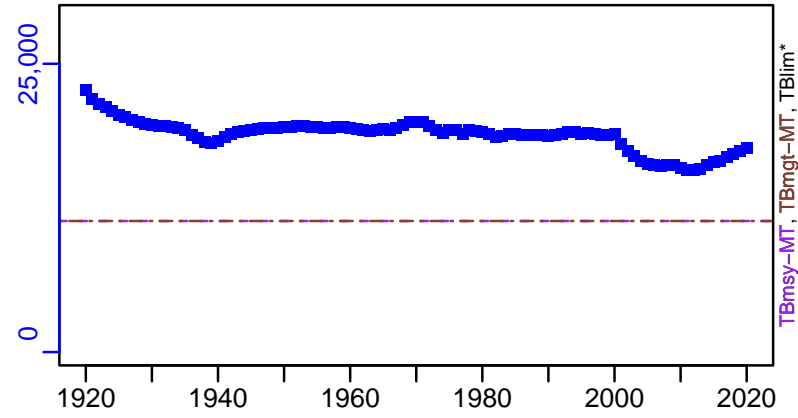


◆ Start Year ◆ End Year * No Data

East coast sole South Africa South coast [ECSOLESASC]

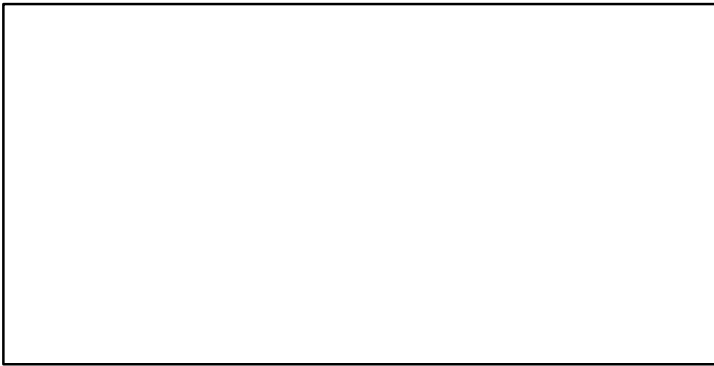
TB-MT (1920-2020-GLAZER)

SSB*



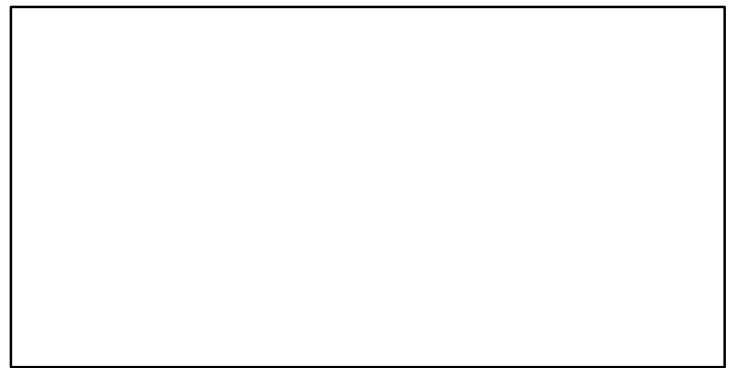
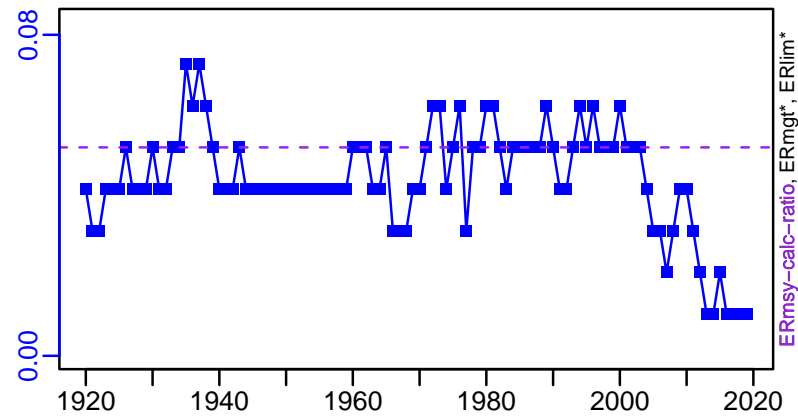
TN *

F*



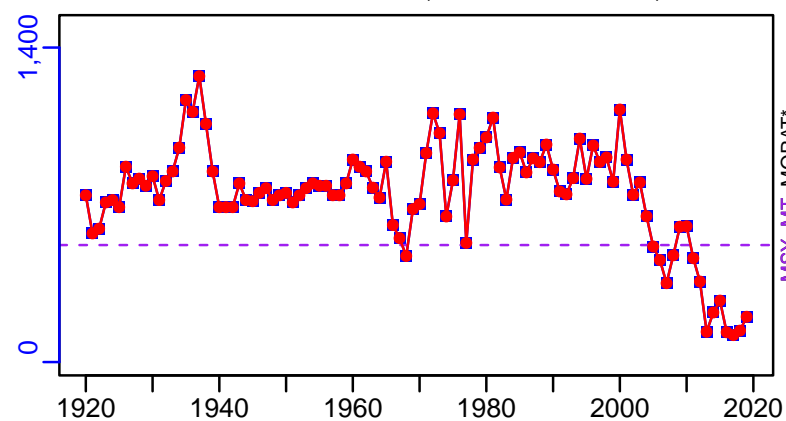
ER-ratio (1920-2020-GLAZER)

Recruits*

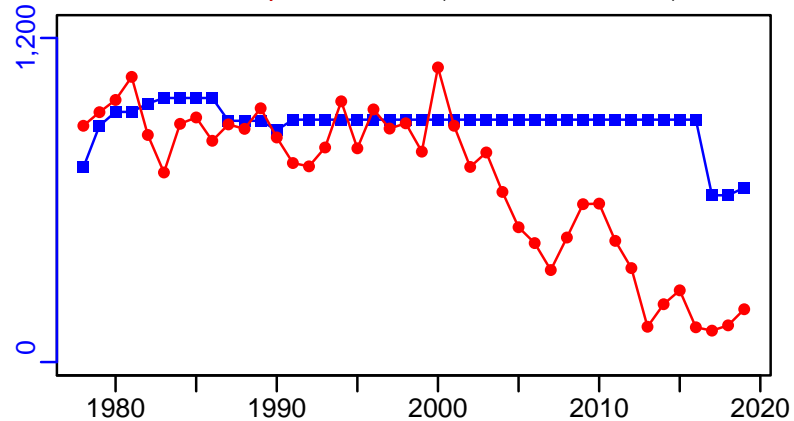


East coast sole South Africa South coast [ECSOLESASC]

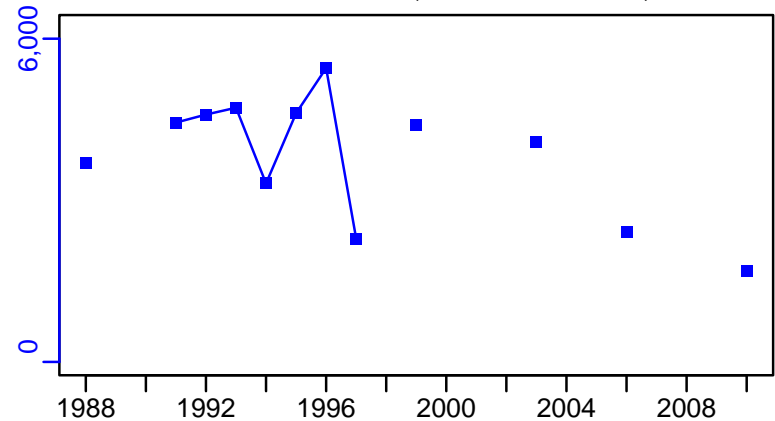
TC-MT, TL-MT, RecC* (1920-2020-GLAZER)



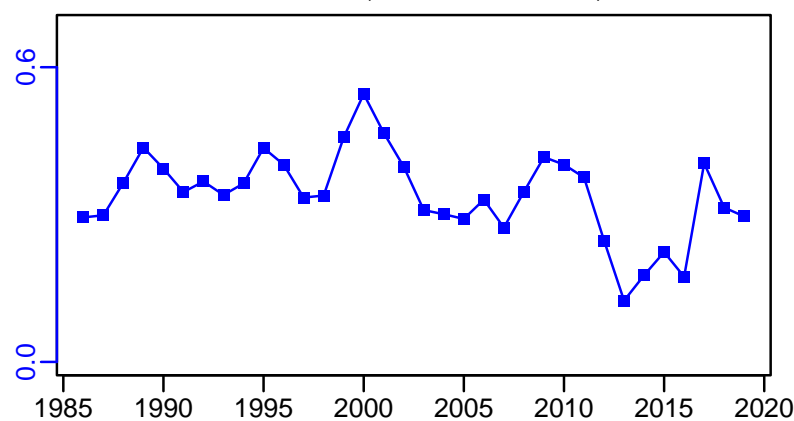
TAC-MT, Cpair-MT, Cadv* (1920-2020-GLAZER)



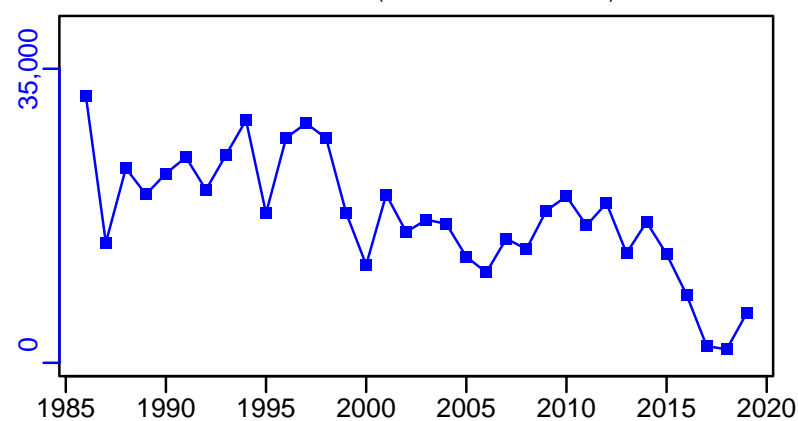
survB_index-1-index (1920-2020-GLAZER)



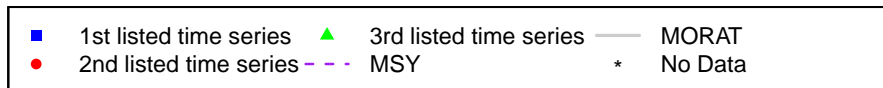
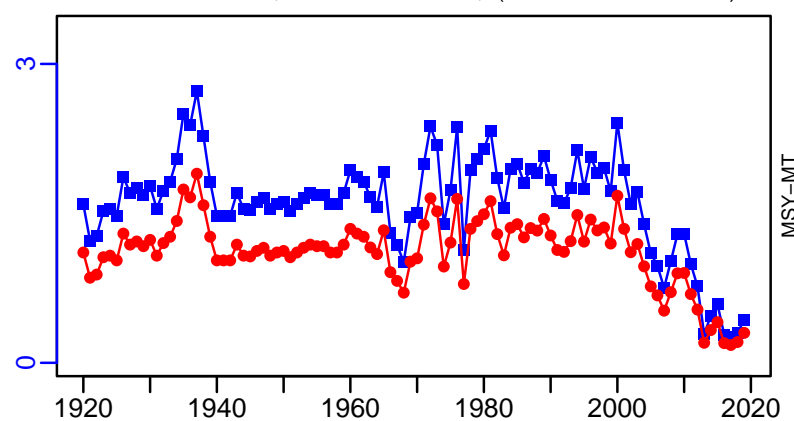
CPUE-index (1920-2020-GLAZER)



EFFORT-hour (1920-2020-GLAZER)



TC-MT/MSY-MT, CdivMEANC-ratio, (1920-2020-GLAZER)



European flounder Subdivisions 22-23 [EFLOUN2223]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2223-1973-2018-ICESIMP2021
Area	Subdivisions 22-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2016, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	385	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	982		
TL	TL-MT	2018	809		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



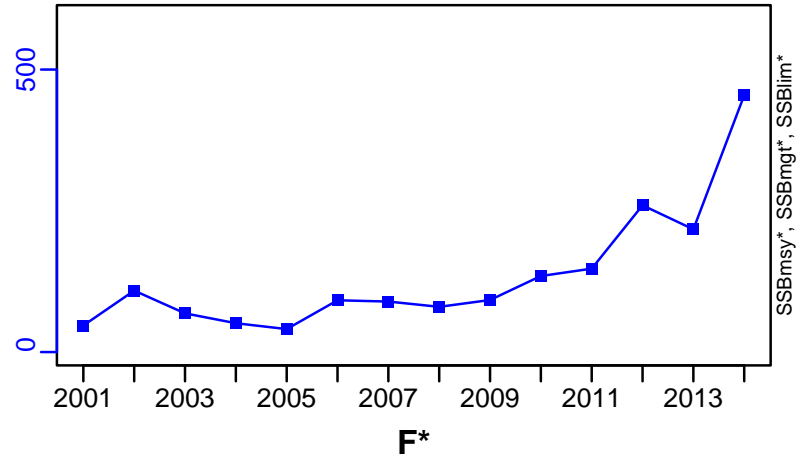
◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

TB*



SSB-index (1973–2014–ICESIMP2018)



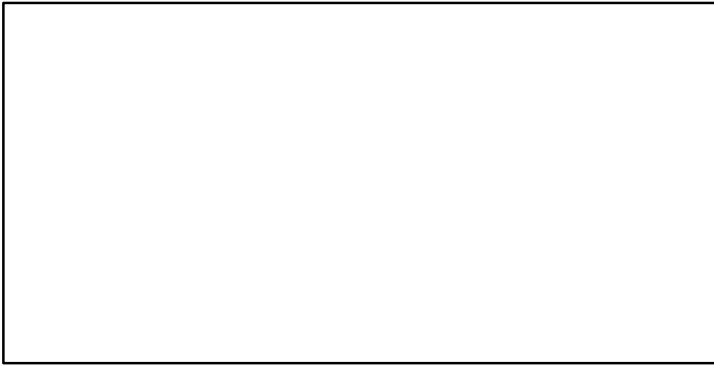
TN *



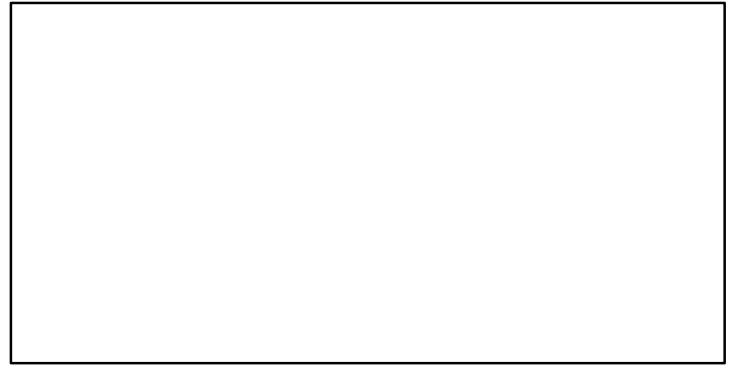
F*



ER*

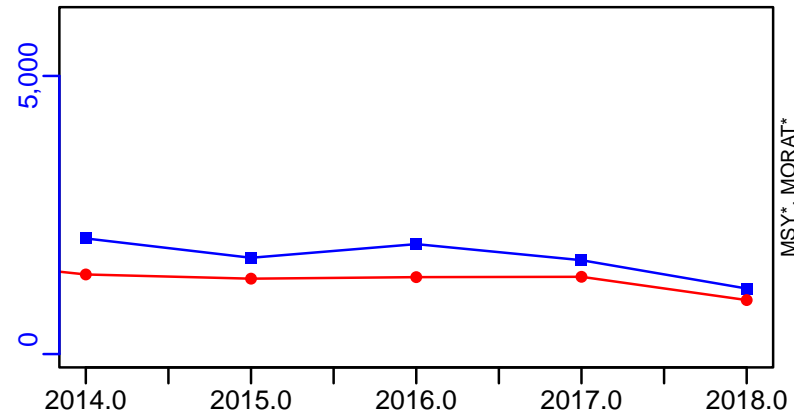


Recruits*



European flounder Subdivisions 22–23 [EFLOUN2223]

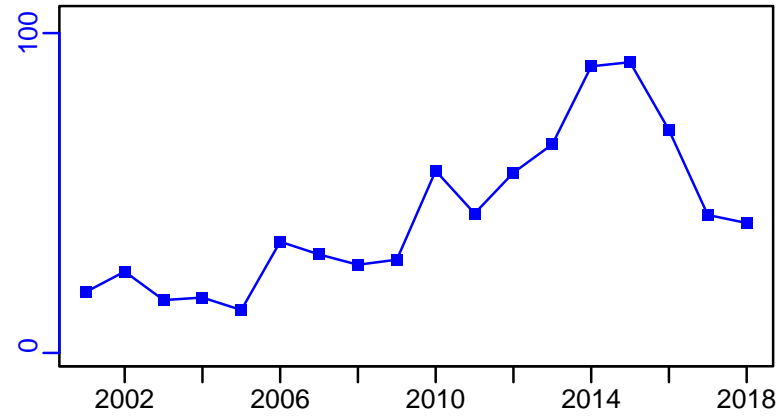
TC–MT, TL–MT, RecC* (1973–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



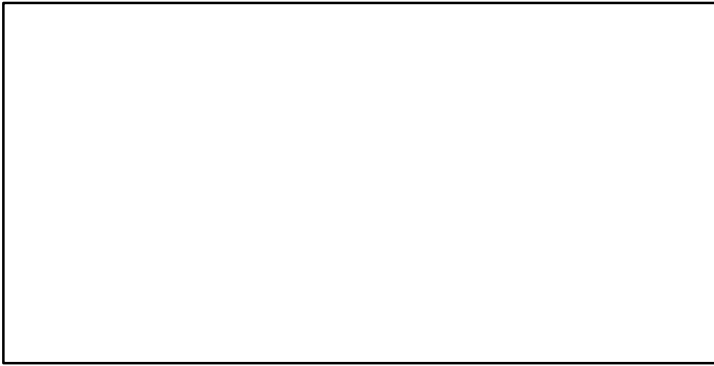
survB–index (1973–2018–ICESIMP2021)



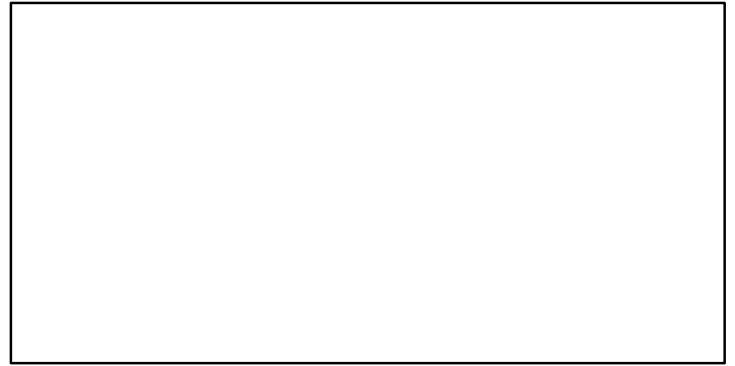
CPUE*



EFFORT*



CdivMSY*



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

European flounder Subdivisions 24-25 [EFLOUN2425]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2425-1973-2018-ICESIMP2021-2
Area	Subdivisions 24-25
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	19,100		
TL	TL-MT	2018	12,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



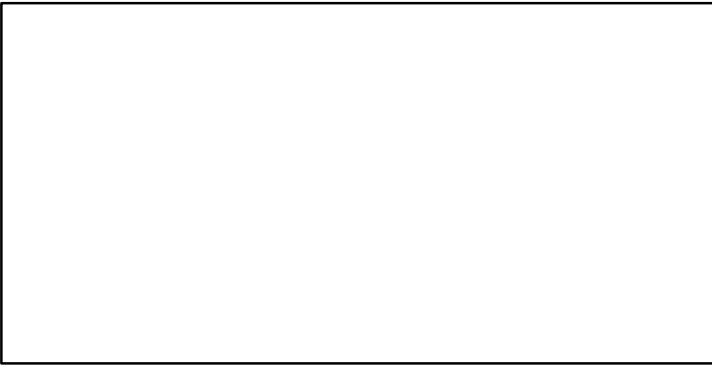
Production*



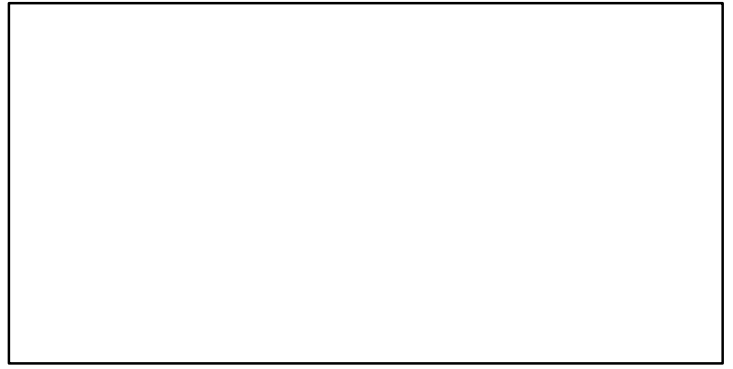
◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

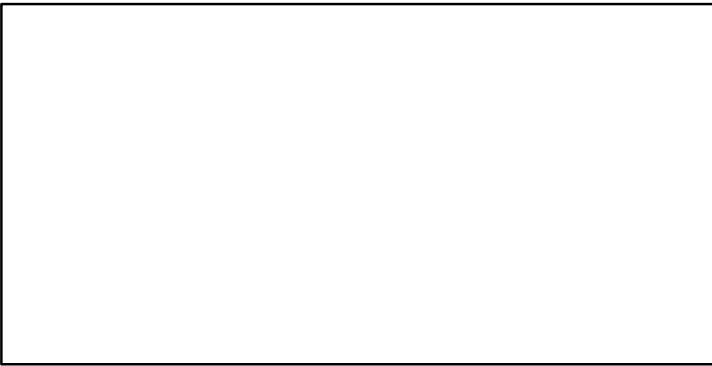
TB*



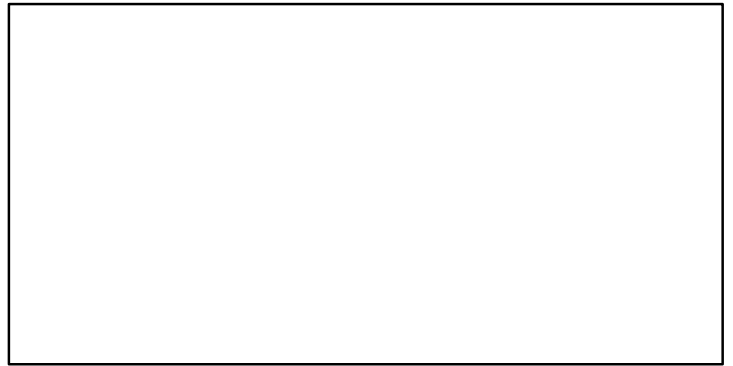
SSB*



TN *



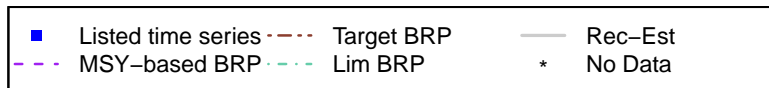
F*



ER*

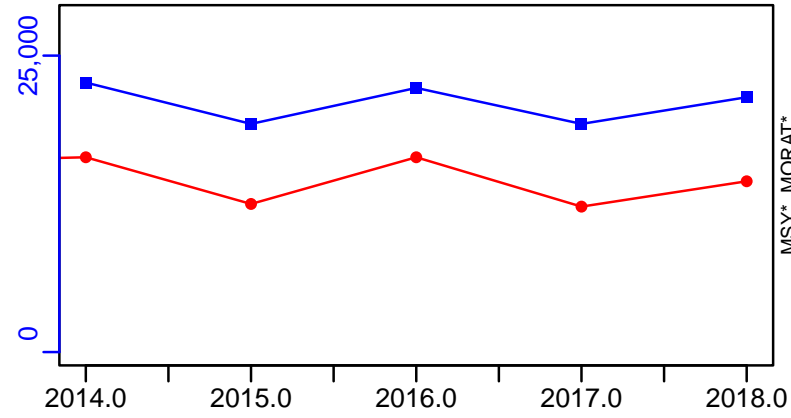


Recruits*



European flounder Subdivisions 24–25 [EFLOUN2425]

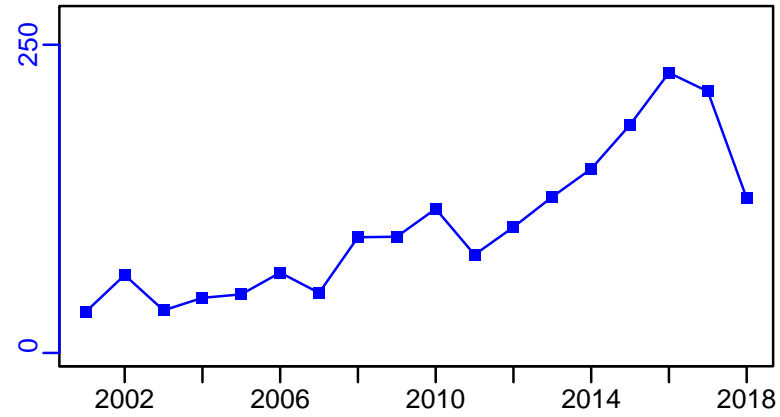
TC–MT, TL–MT, RecC* (1973–2018–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



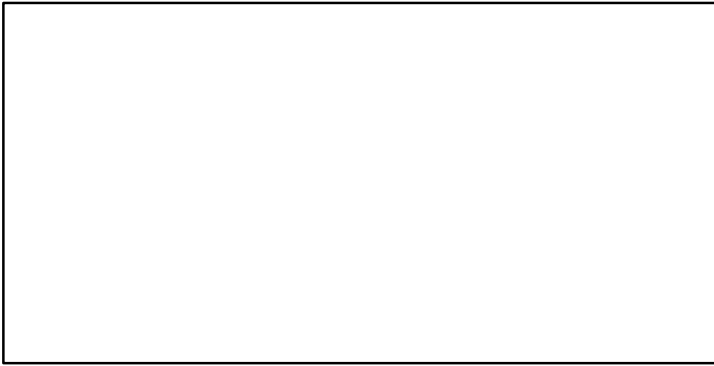
survB–index (1973–2018–ICESIMP2021–2)



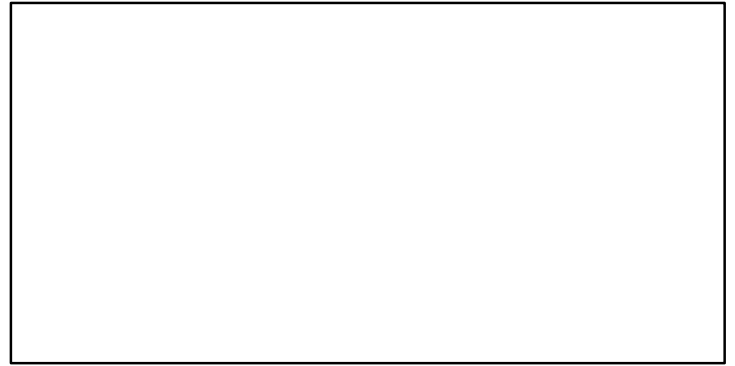
CPUE*



EFFORT*



CdivMSY*



European flounder Subdivisions 26-28 [EFLOUN26-28]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN26-28-1996-2016-ICESIMP2018
Area	Subdivisions 26-28
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	4440		
TL	TL-MT	2016	4440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

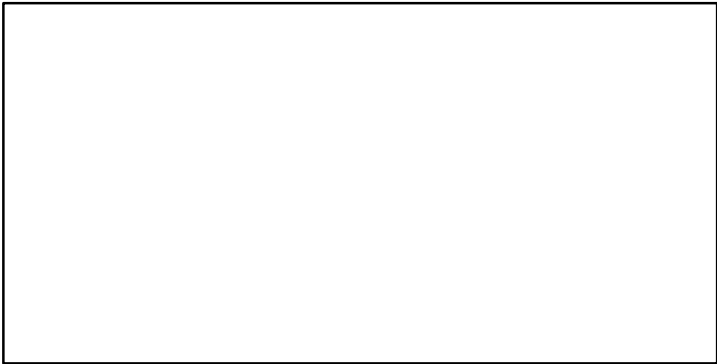


Production*

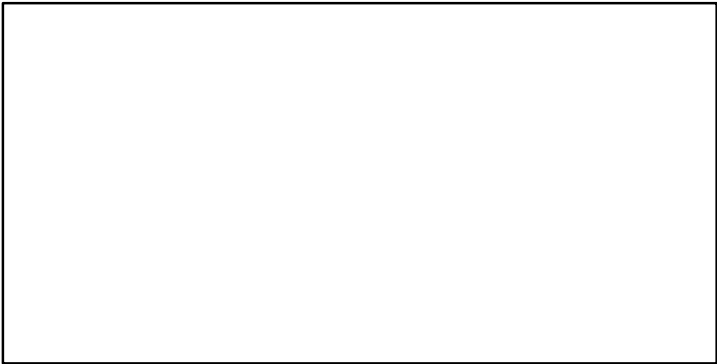


◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

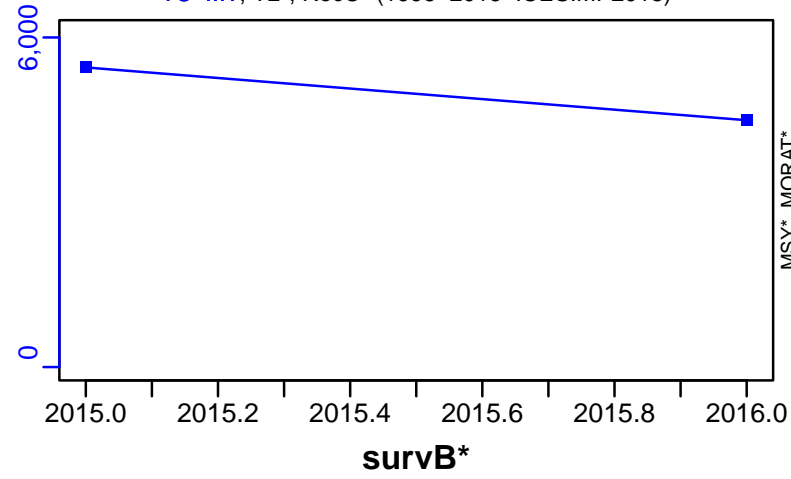


Recruits*



European flounder Subdivisions 26–28 [EFLOUN26–28]

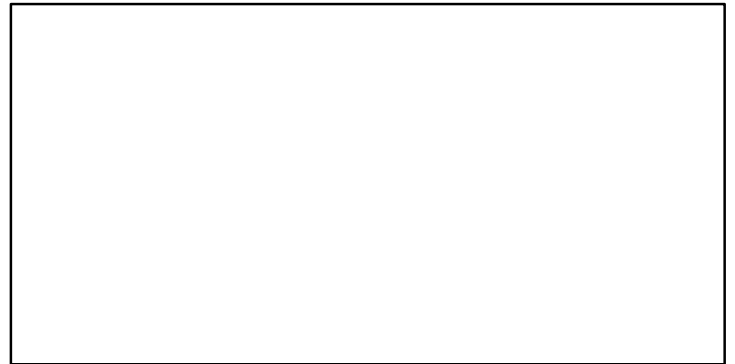
TC–MT, TL*, RecC* (1996–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



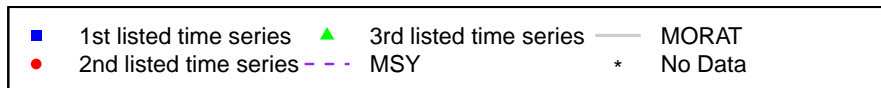
CPUE*



EFFORT*



CdivMSY*



European flounder Subdivisions 27 and 29-32 [EFLOUN27-2932]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN27-2932-1980-2016-ICESIMP2018
Area	Subdivisions 27 and 29-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	176		
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

Target BRP

—

Rec-Est

MSY-based BRP

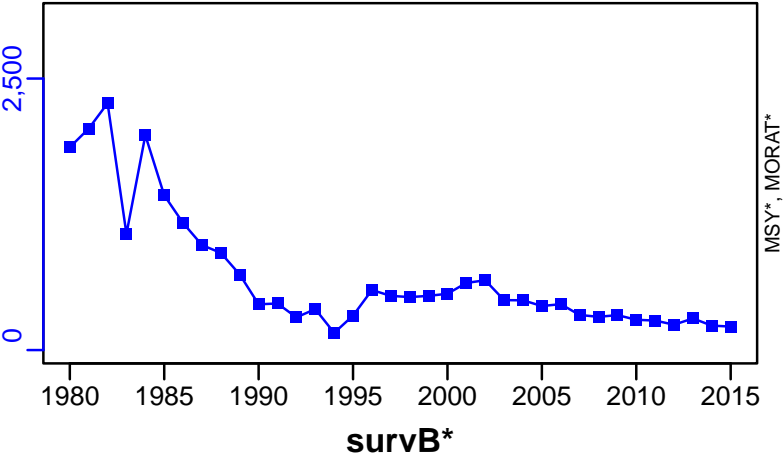
Lim BRP

*

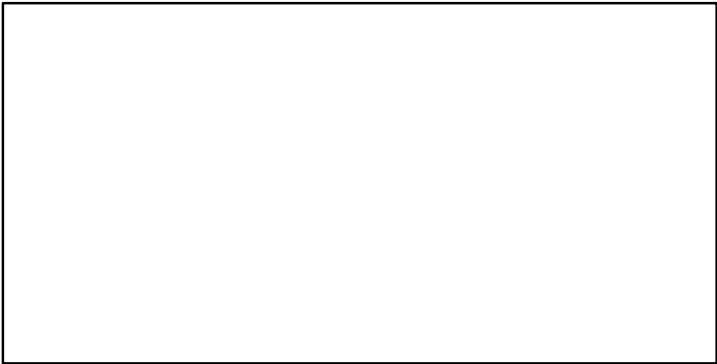
No Data

European flounder Subdivisions 27 and 29–32 [EFLOUN27–2932]

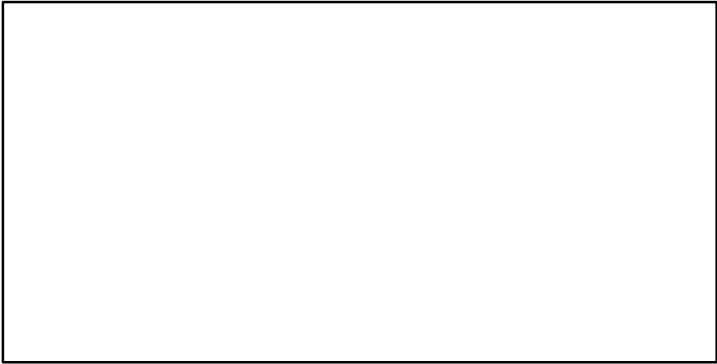
TL–MT, TC*, RecC* (1980–2016–ICESIMP2016)



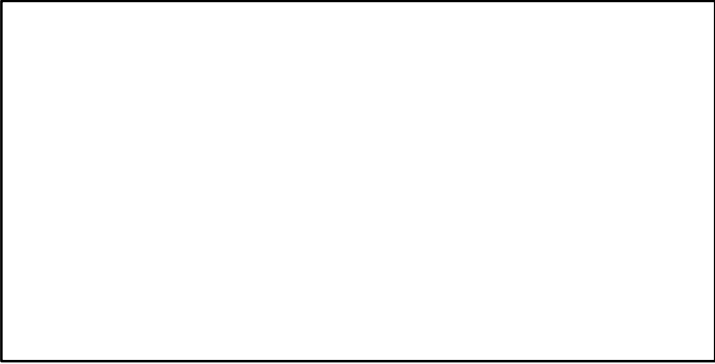
TAC*, Cpair*, Cadv*



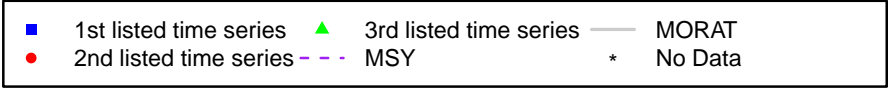
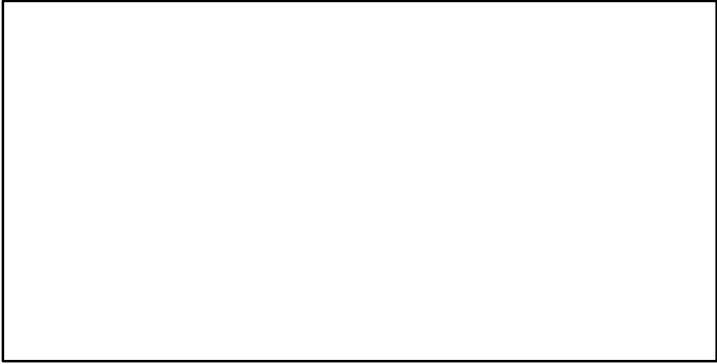
CPUE*



EFFORT*



CdivMSY*



European flounder ICES 3a-4 [EFLOUNIIIa-IV]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGNSSK-EFLOUNIIIa-IV-1950-2021-ICESIMP2021-2
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2019, 2021, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2019	0.65	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	2390		
TL	TL-MT	2021	1720		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



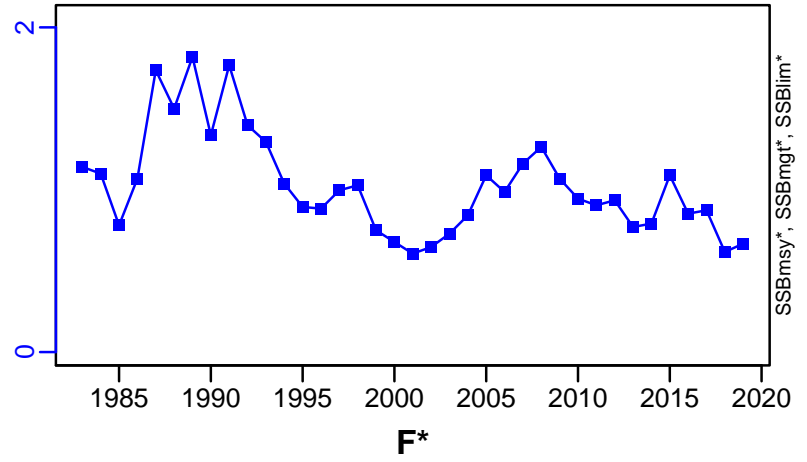
◆ Start Year ◆ End Year * No Data

European flounder ICES 3a-4 [EFLOUNIIIa-IV]

TB*



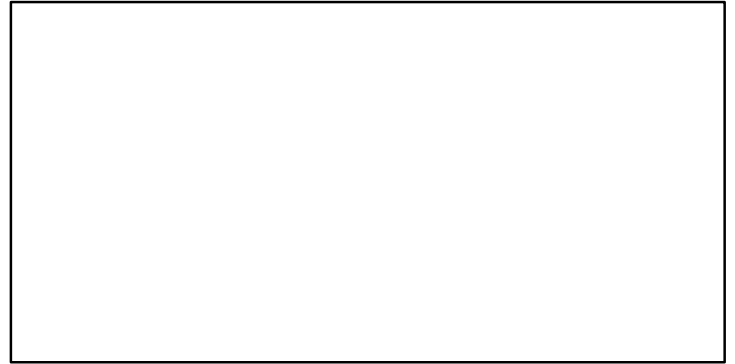
SSB-index (1950-2019-ICESIMP2021)



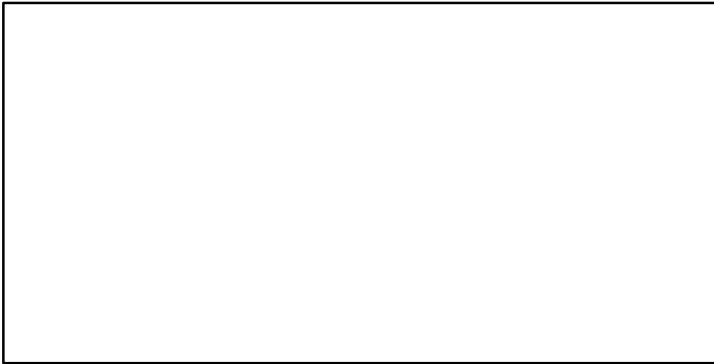
TN *



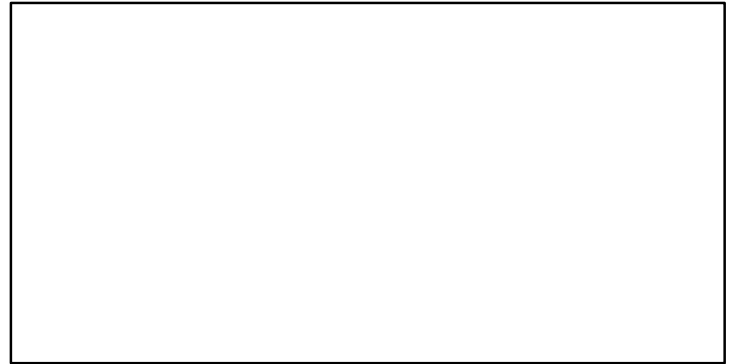
F*



ER*

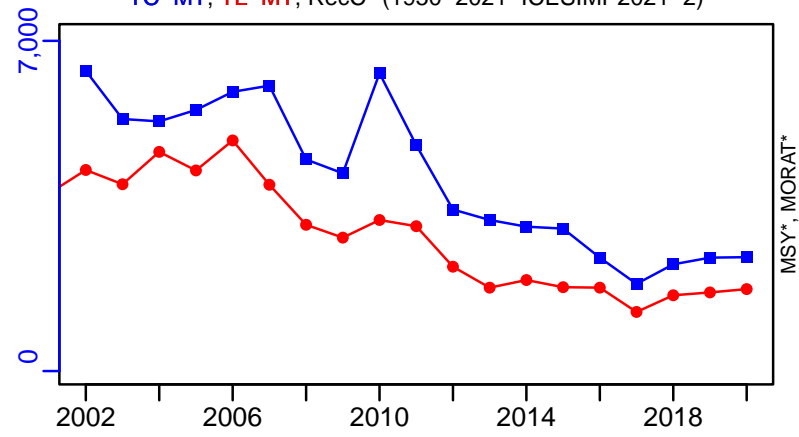


Recruits*



European flounder ICES 3a-4 [EFLOUNIIIa-IV]

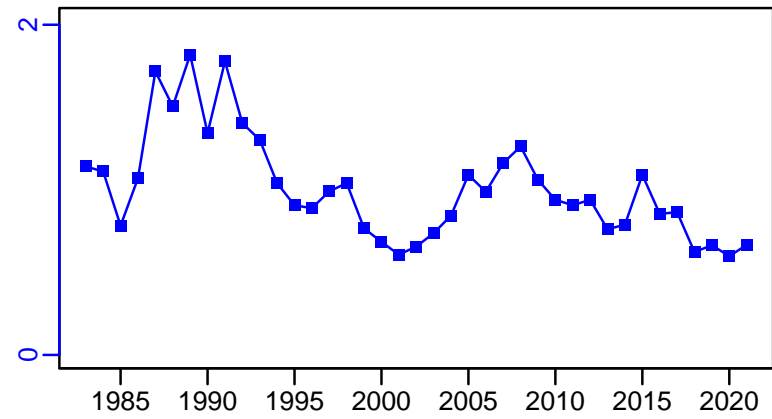
TC-MT, TL-MT, RecC* (1950-2021-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



survB-MT (1950-2021-ICESIMP2021-2)



CPUE*



EFFORT*



CdivMSY*



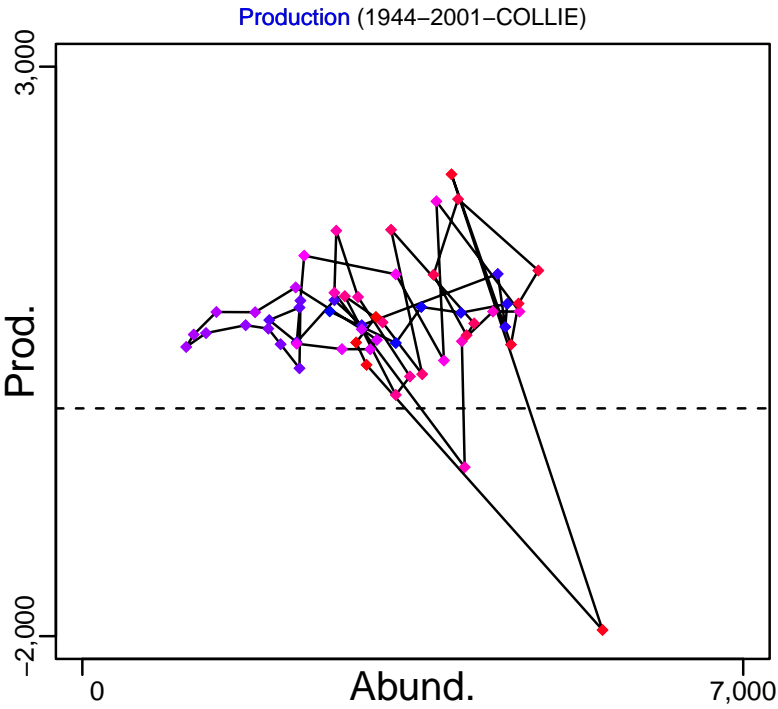
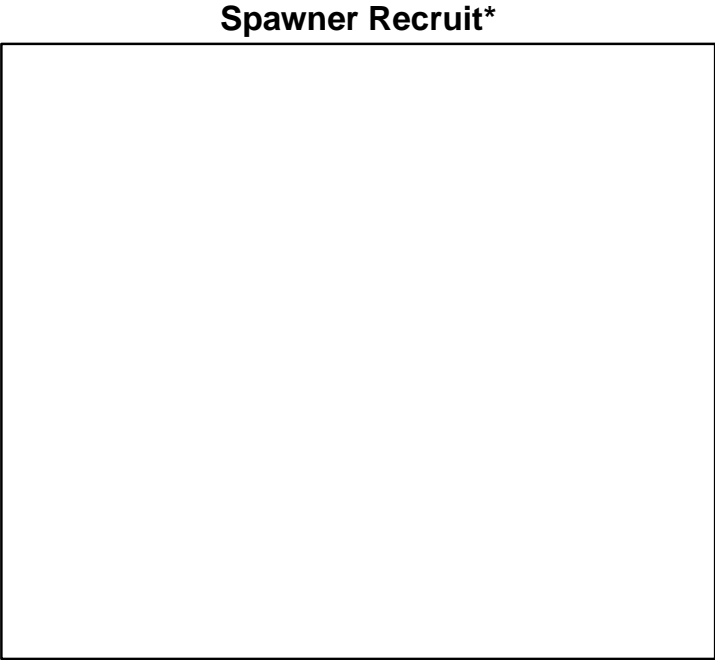
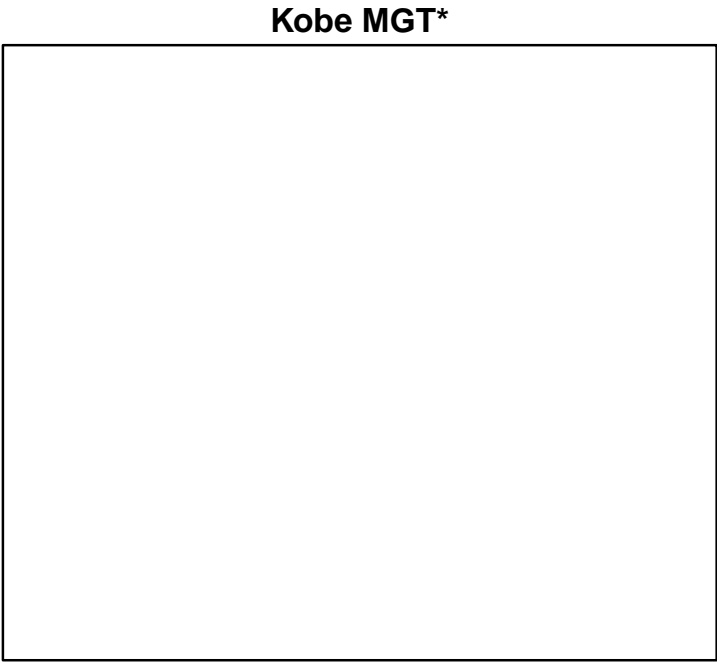
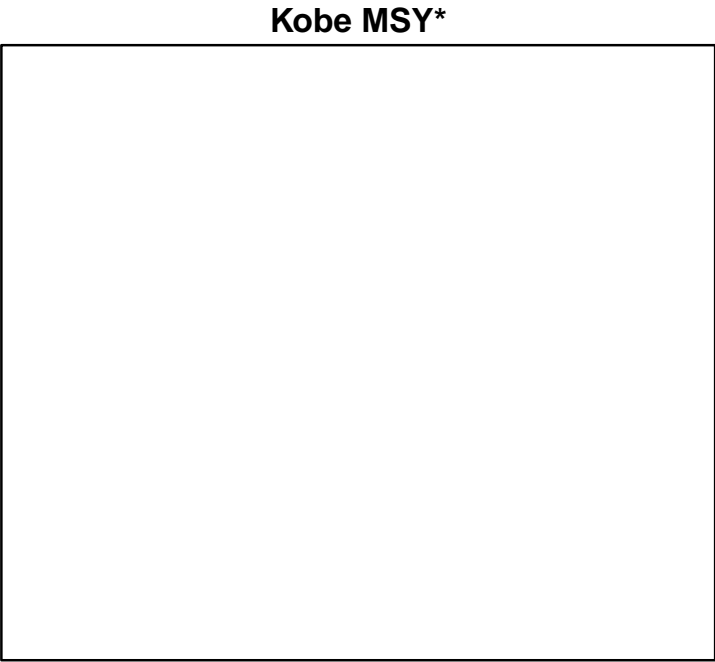
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

English sole Hecate Strait [ESOLEHS]

Metadata	
Scientific Name	Parophrys vetulus
Current Assess ID	DFO-PAC-ESOLEHS-1944-2001-COLLIE
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2001

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2001	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2001	3410	-	4+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2001	2,040,000	-	4
F	F-1/yr	2001	0.16	-	-
ER	ER-ratio	2001	0.122	-	-
TC	-	-	-		
TL	TL-MT	2001	414		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

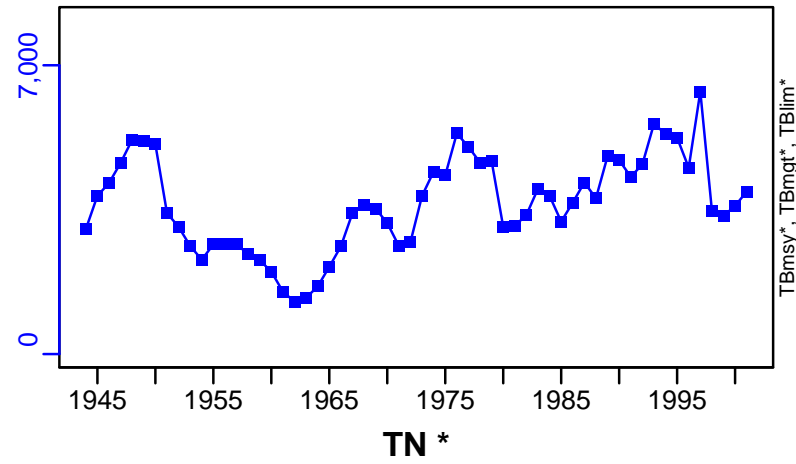


◆ Start Year ◆ End Year * No Data

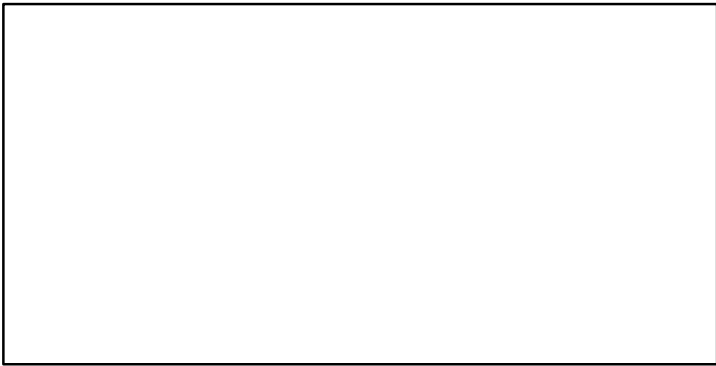
English sole Hecate Strait [ESOLEHS]

TB-MT (1944-2001-COLLIE)

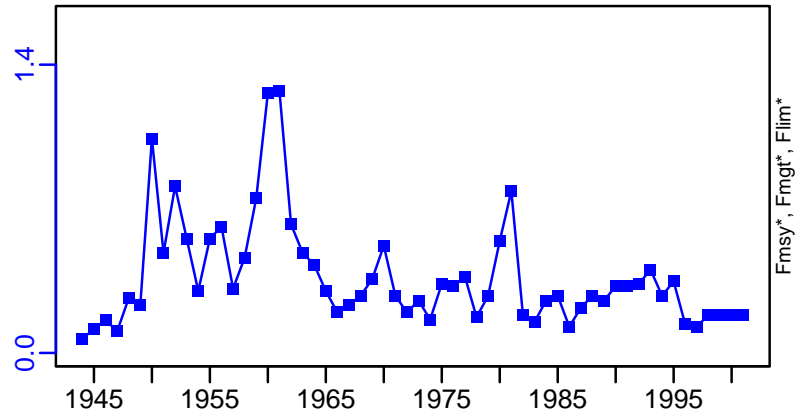
SSB*



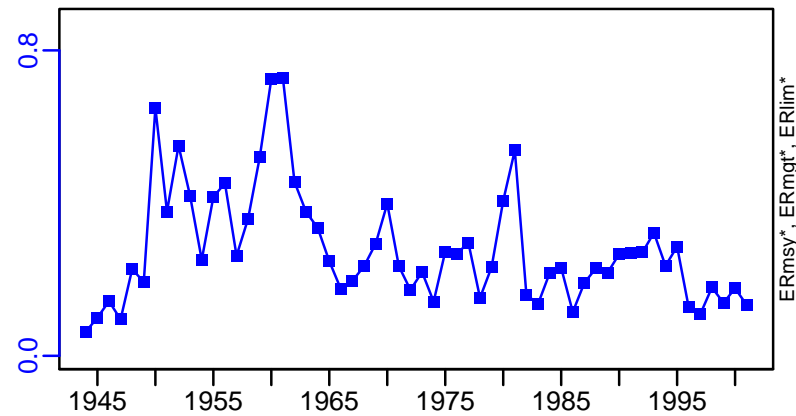
TN *



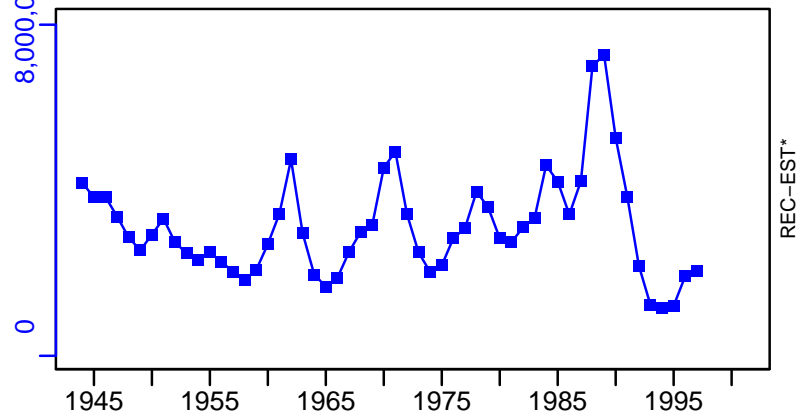
F-1/yr (1944-2001-COLLIE)



ER-ratio (1944-2001-COLLIE)

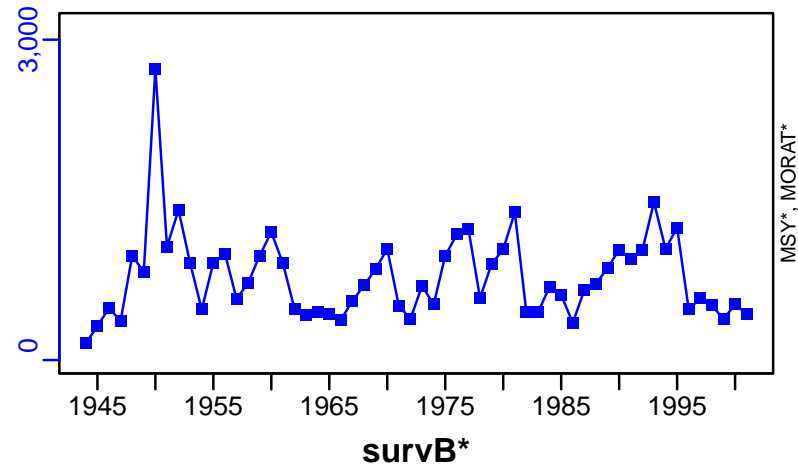


R-E00 (1944-2001-COLLIE)



English sole Hecate Strait [ESOLEHS]

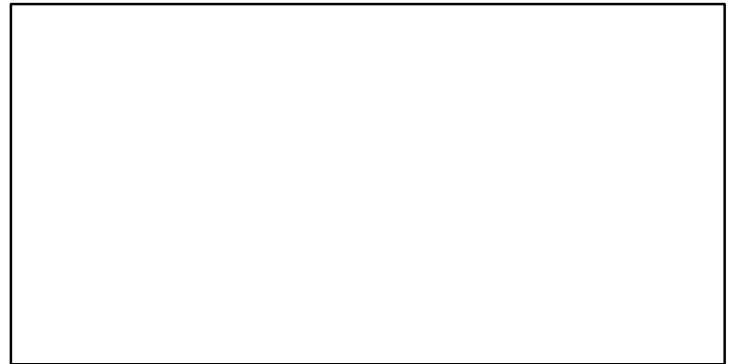
TL-MT, TC*, RecC* (1944–2001–COLLIE)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

English sole Pacific Coast [ESOLEPCOAST]

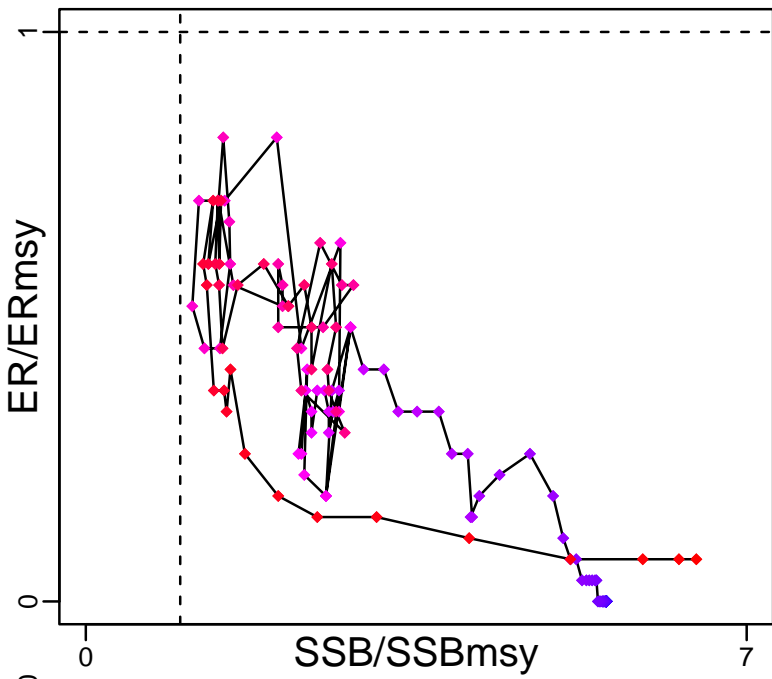
Metadata	
Scientific Name	Parophrys vetulus
Current Assess ID	NWFSC-ESOLEPCOAST-1876-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2007, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	15,748
SSBmsy	SSBmsy-MT	2007	6526
Fmsy	Fmsy-1/yr	2012	0.7
ERmsy	ERmsy-ratio	2007	0.27
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	36,012
MSY	MSY-MT	2012	3875
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2007	7364
Flim	Flim-1/yr	2012	0.7
ERlim	-	-	-

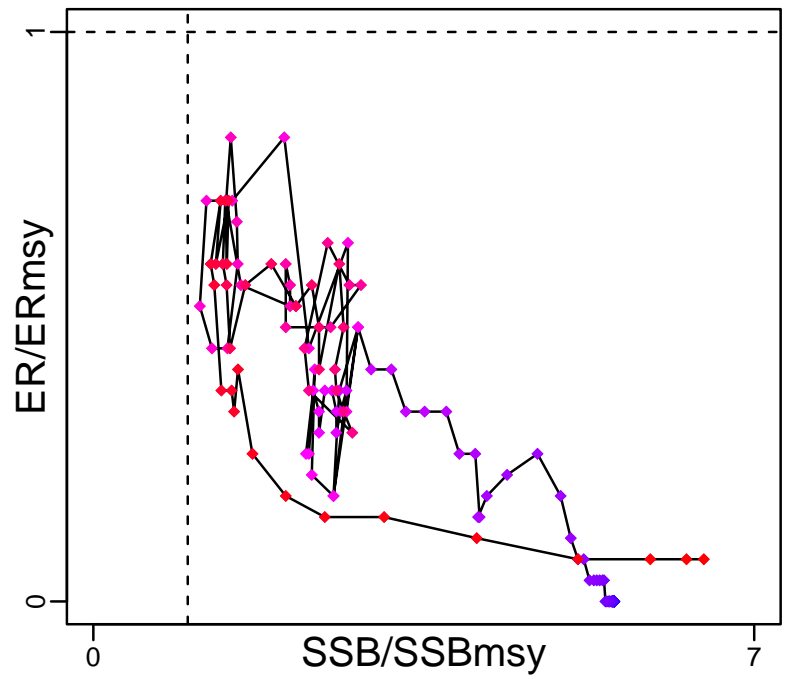
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	69,900	-	7.7+
SSB	SSB-MT	2007	41,900	Females	3+
TN	-	-	-	-	-
R	R-E00	2007	1.25×10^8	-	0
F	F-1/yr	2012	0.037	-	-
ER	ER-ratio	2007	0.02	-	-
TC	TC-MT	2007	1080		
TL	TL-MT	2007	886		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	4.439		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	6.42		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.053		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.074		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

English sole Pacific Coast [ESOLEPCOAST]

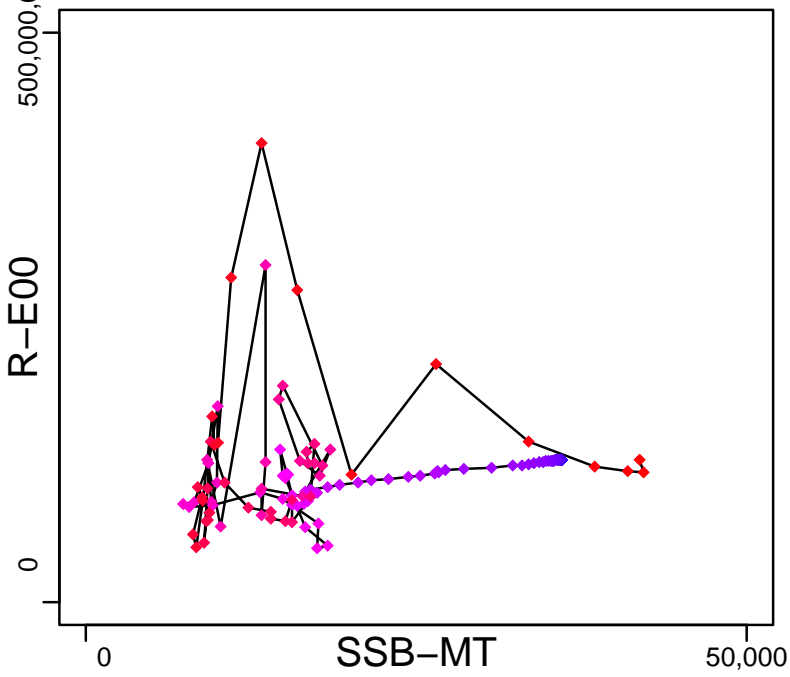
Kobe MSYpref (1876–2007–BRANCH)



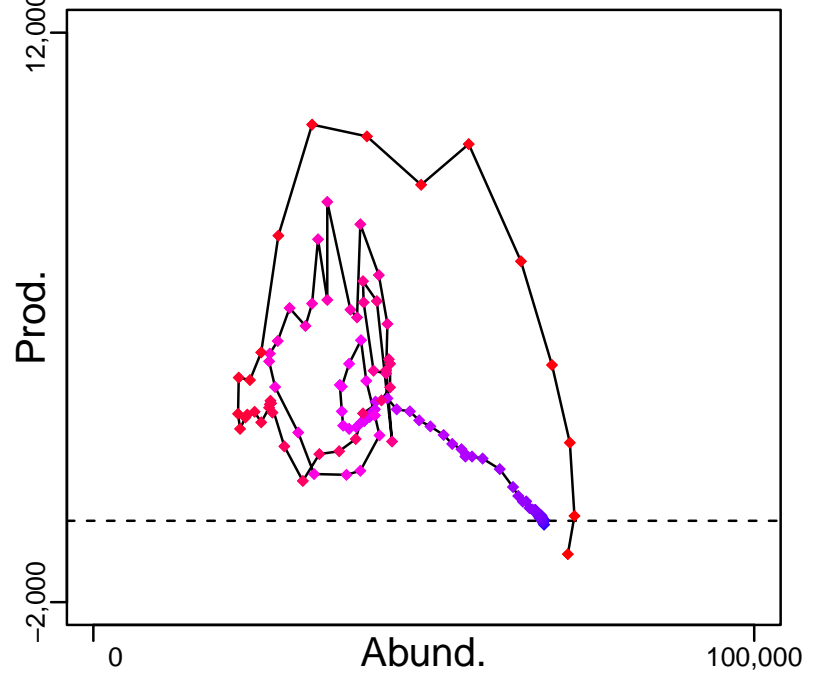
Kobe MGTpref (1876–2007–BRANCH)



Spawner Recruit (1876–2007–BRANCH)



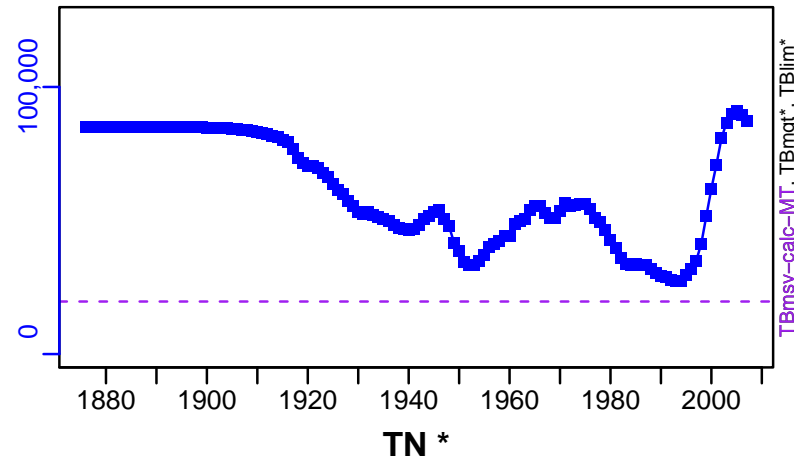
Production (1876–2007–BRANCH)



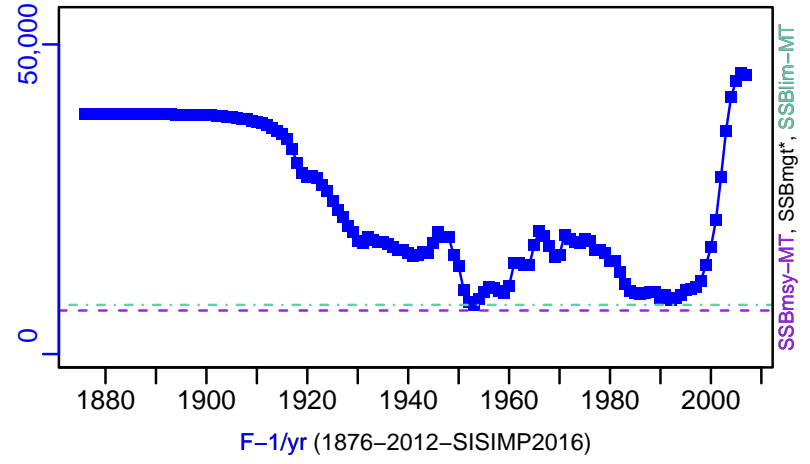
◆ Start Year ◆ End Year * No Data

English sole Pacific Coast [ESOLEPCOAST]

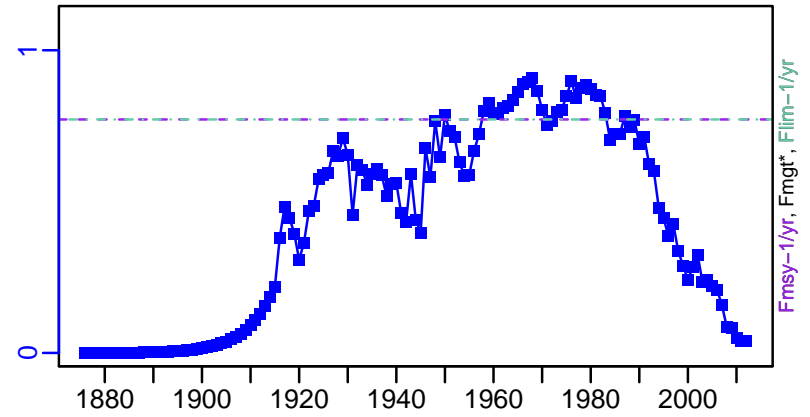
TB-MT (1876-2007-BRANCH)



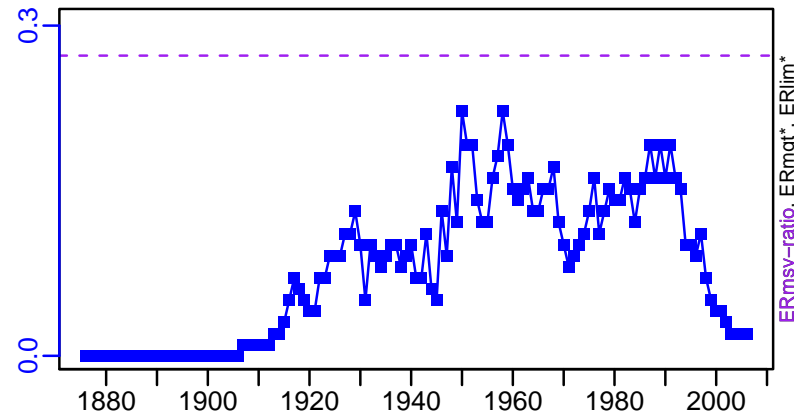
SSB-MT (1876-2007-BRANCH)



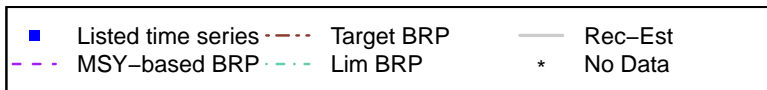
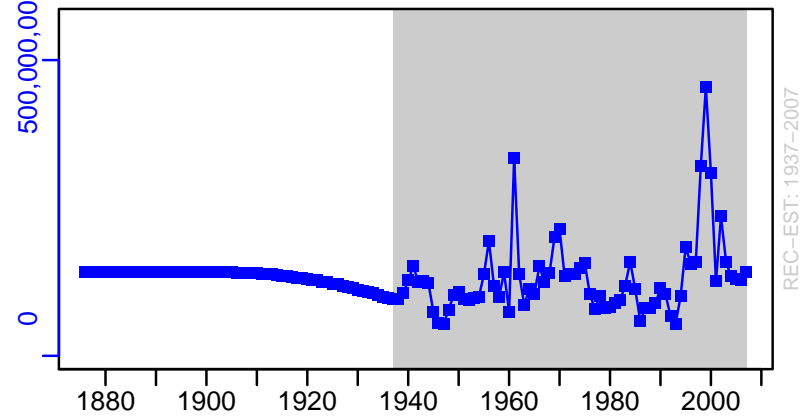
F-1/yr (1876-2012-SISIMP2016)



ER-ratio (1876-2007-BRANCH)



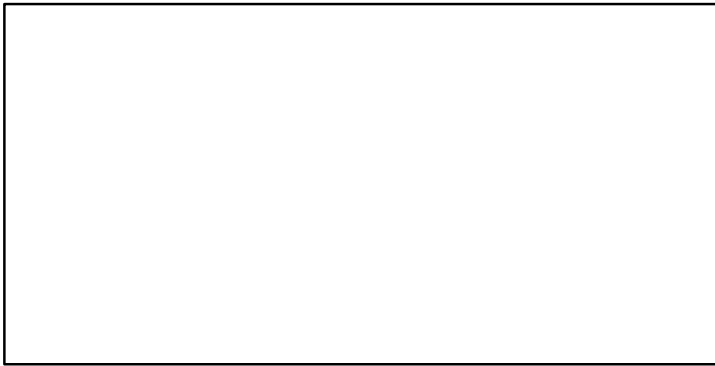
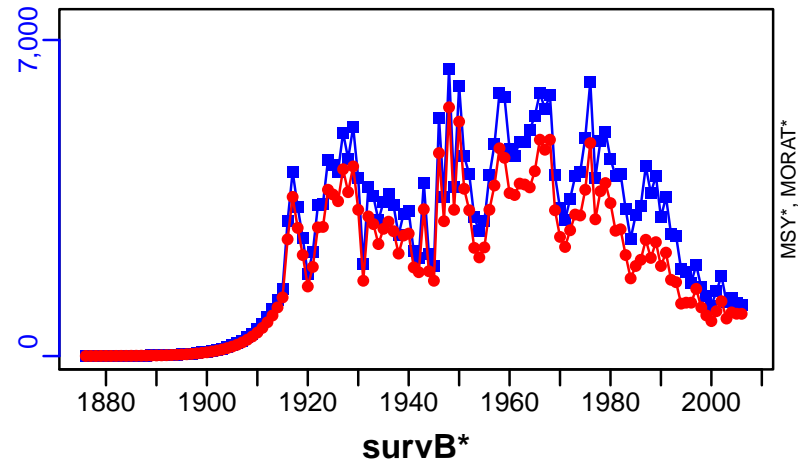
R-E00 (1876-2007-BRANCH)



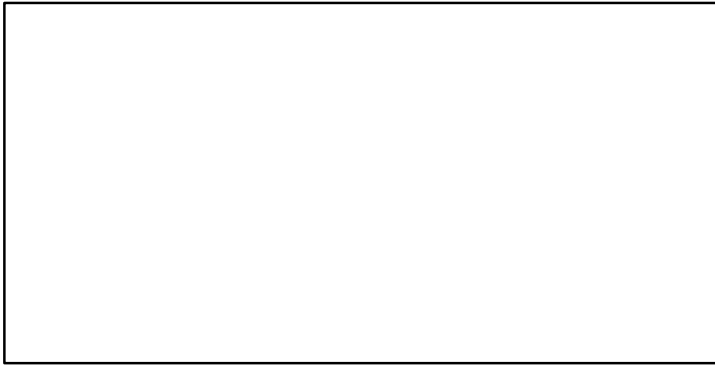
English sole Pacific Coast [ESOLEPCOAST]

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

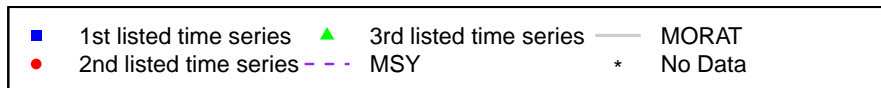
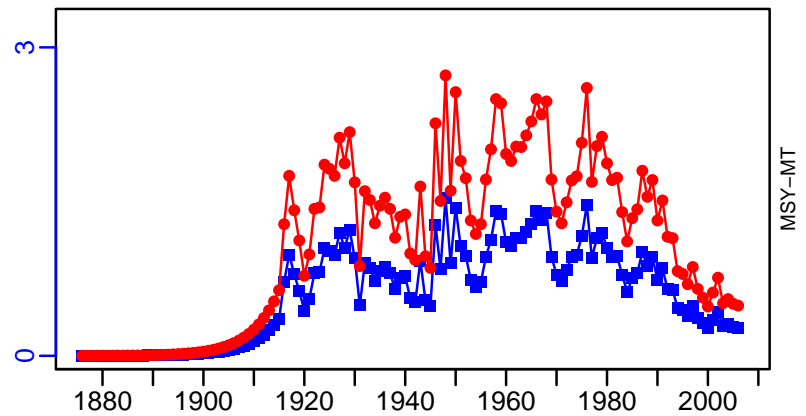
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1876-2007-BRANCH)



Flathead flounder Sea of Japan [FHFLOUNSOJ]

Metadata	
Scientific Name	Hippoglossoides dubius
Current Assess ID	FAFRFJ-FHFLOUNSOJ-1991-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	5450		
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

Flathead flounder Sea of Japan [FHFLOUNSOJ]

TB*



SSB*



TN *



F*



ER*

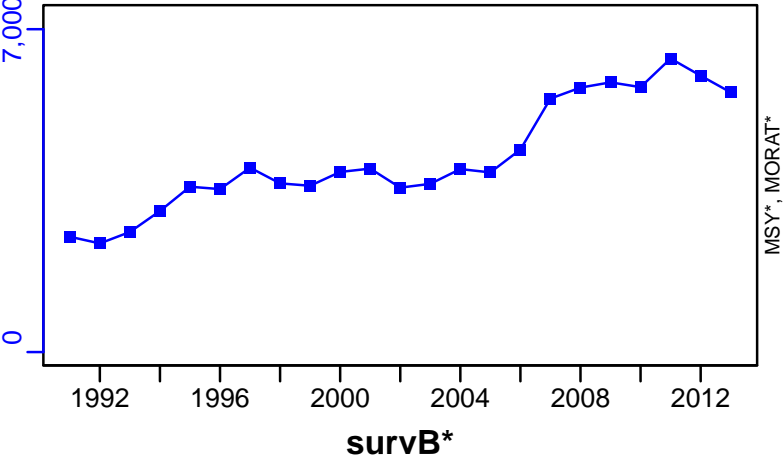


Recruits*



Flathead flounder Sea of Japan [FHFLOUNSOJ]

TC-MT, TL*, RecC* (1991-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

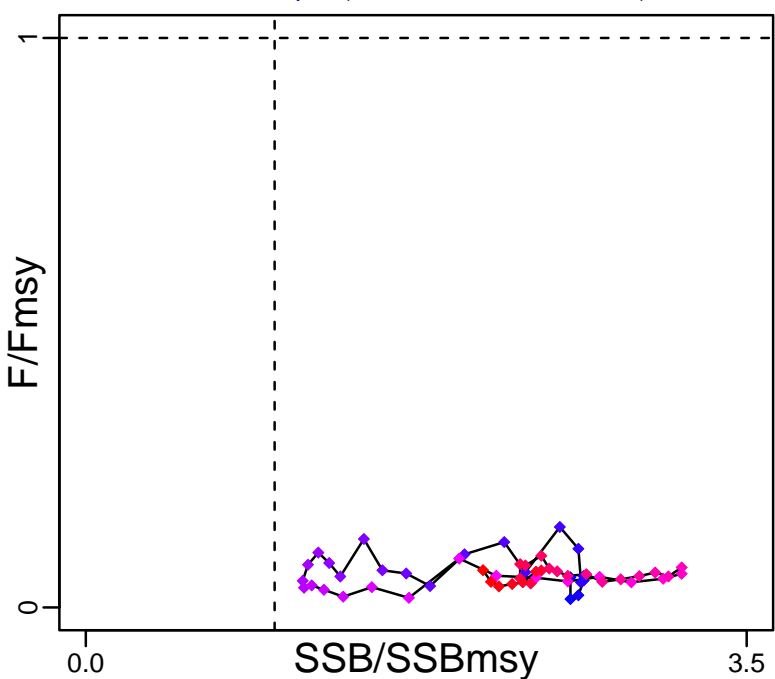
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEBSAI-1964-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2018, 2018, 2020, 2020,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

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

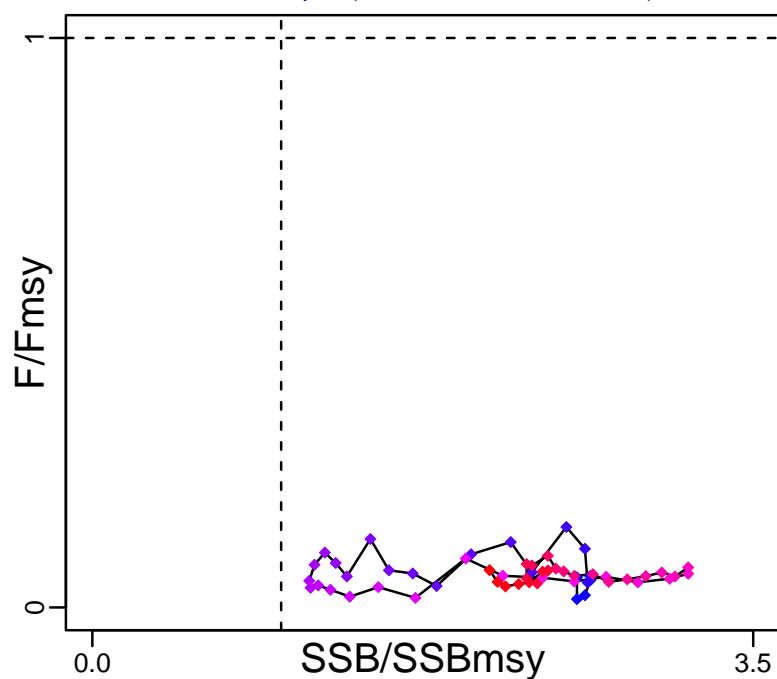
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	738,000	-	3+
SSB	SSB-MT	2020	148,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	958,000	-	0
F	F-1/yr	2020	0.03	-	-
ER	ER-calc-ratio	2015	0.021	-	-
TC	TC-MT	2020	15,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	2.076		
F/Fmsy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

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

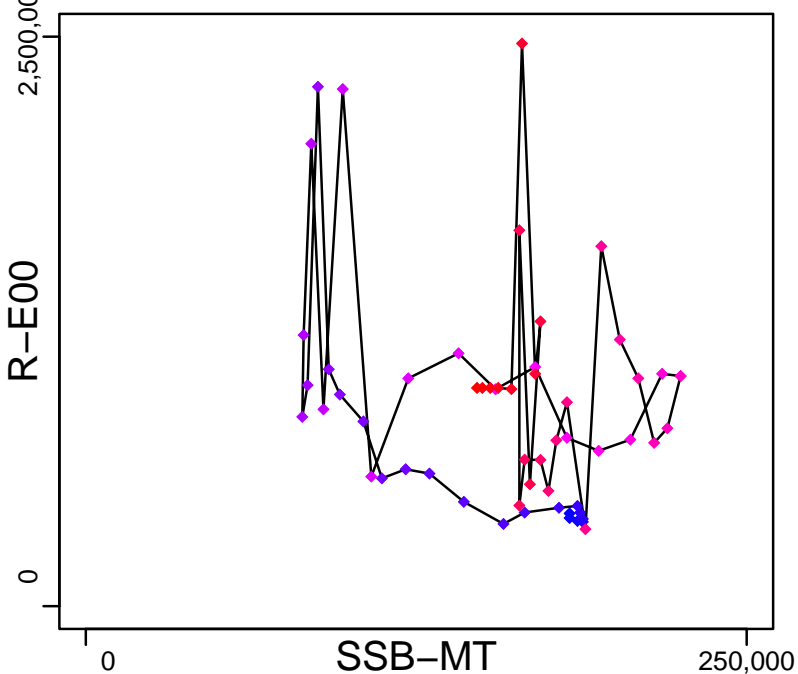
Kobe MSYpref (1964–2020–SISIMP2021–2)



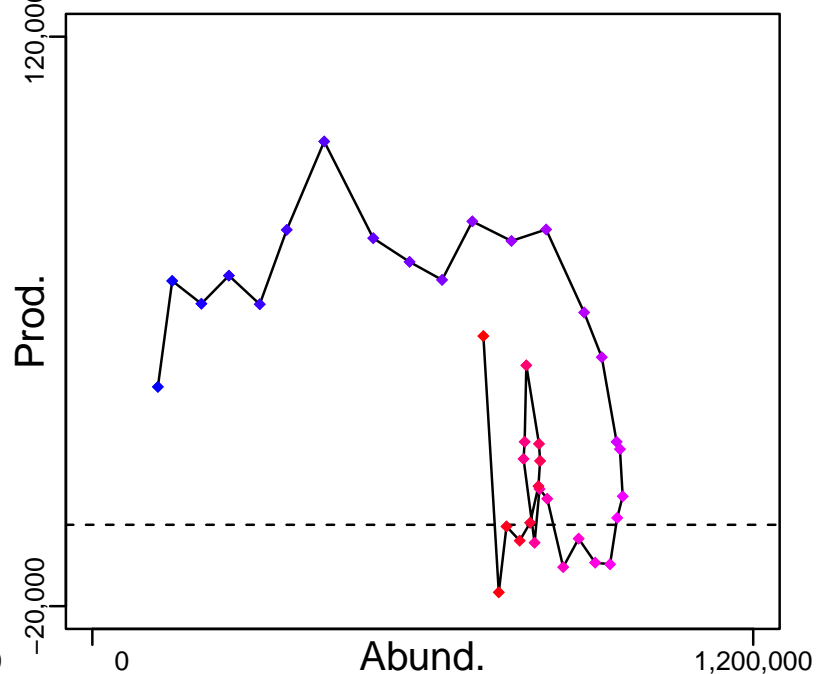
Kobe MGTpref (1964–2020–SISIMP2021–2)



Spawner Recruit (1964–2020–SISIMP2021–2)

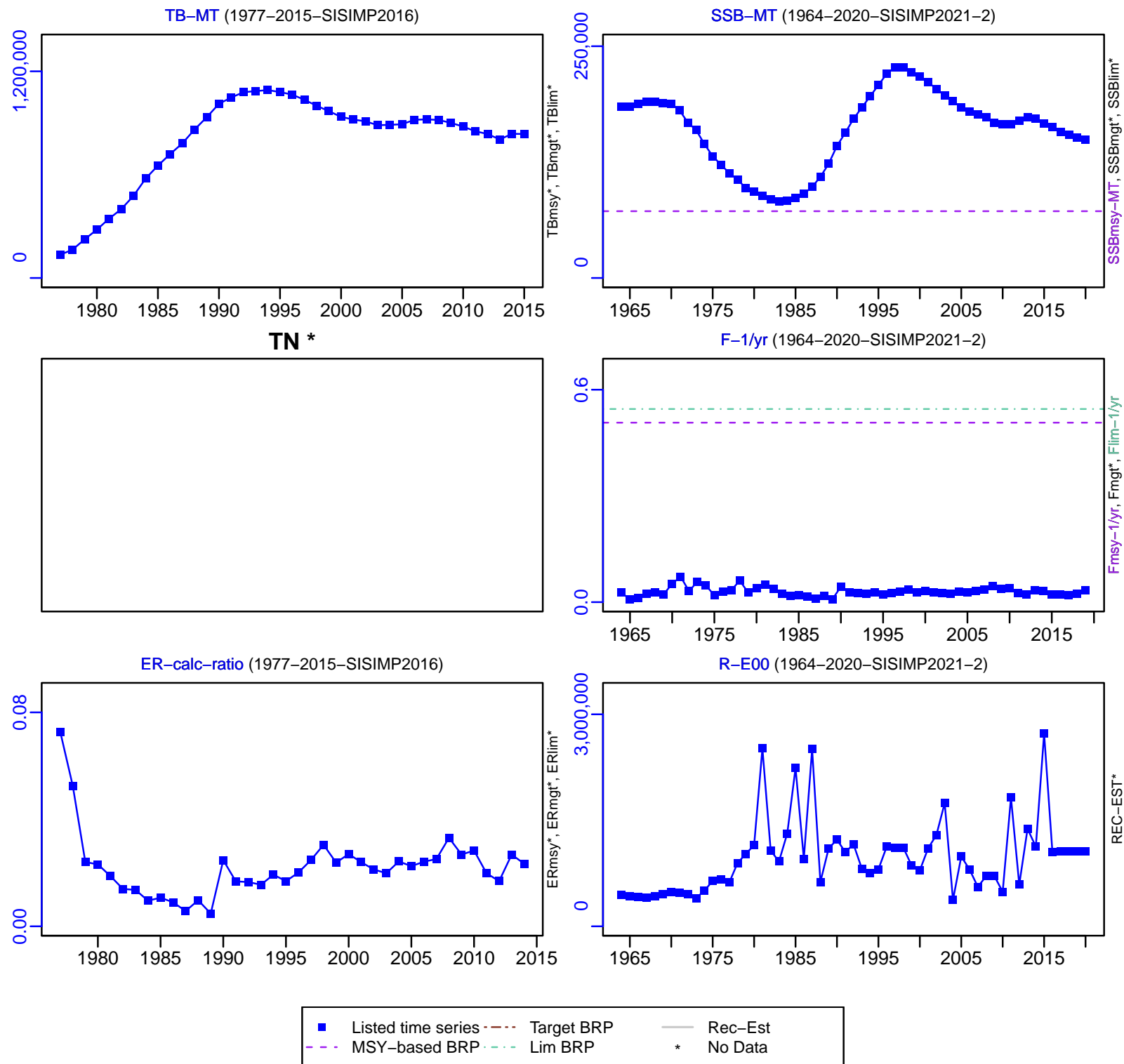


Production (1977–2015–SISIMP2016)



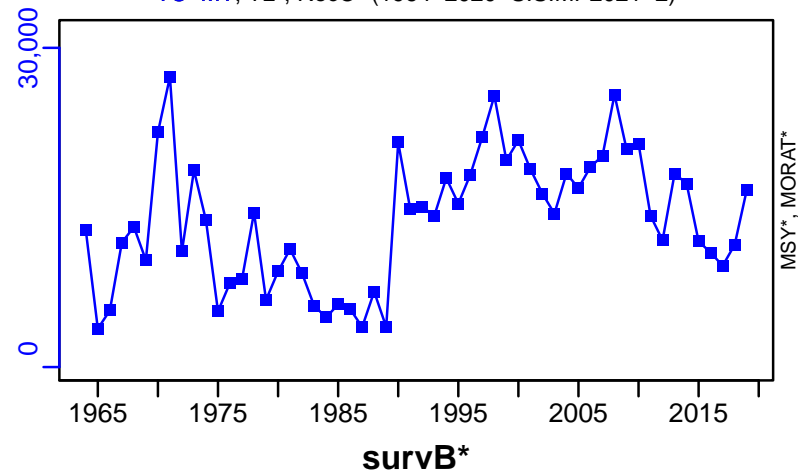
◆ Start Year ◆ End Year * No Data

Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]



Flathead sole Bering Sea and Aleutian Islands [FLSOLEBSAI]

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



TAC*, Cpair*, Cadv*



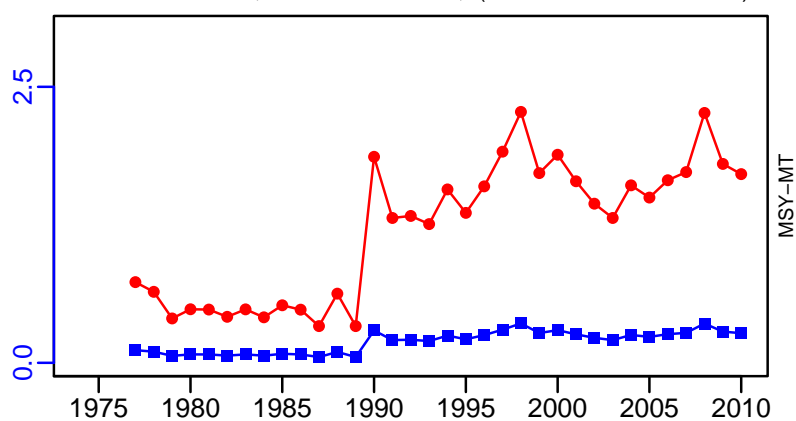
CPUE*



EFFORT*



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



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

Flathead sole Gulf of Alaska [FLSOLEGA]

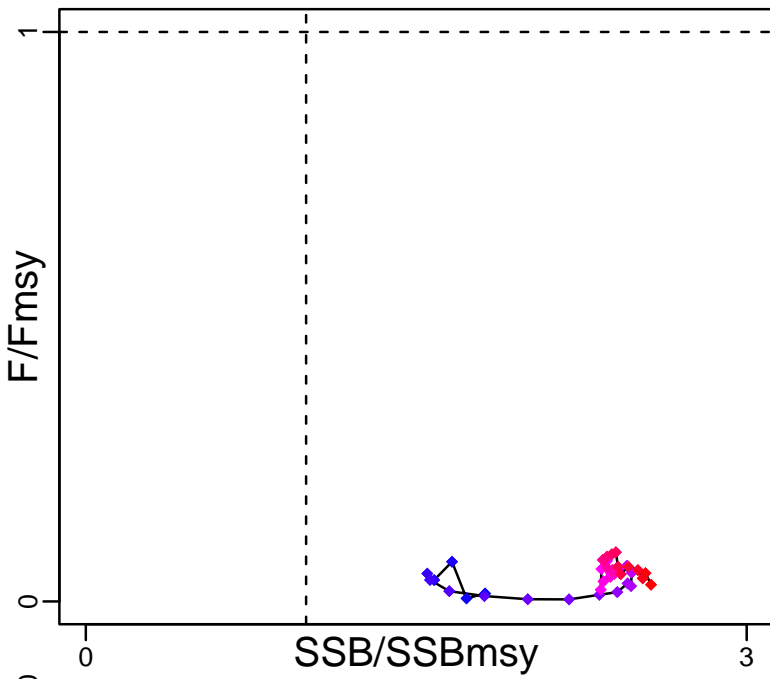
Metadata	
Scientific Name	Hippoglossoides elassodon
Current Assess ID	AFSC-FLSOLEGA-1978-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2015, 2016, 2017, 2018, 2019

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

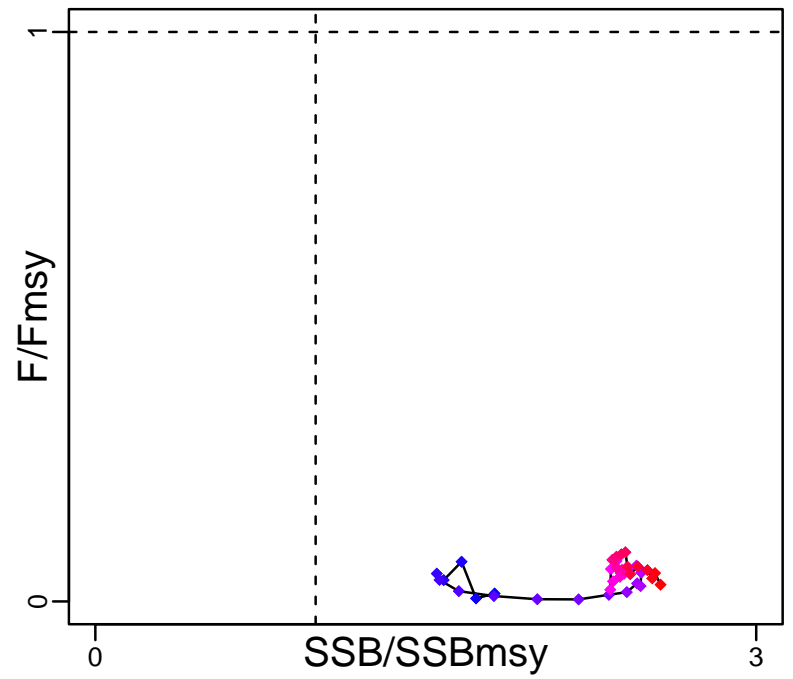
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	258,000	-	3+
SSB	SSB-MT	2019	83,300	-	-
TN	-	-	-	-	-
R	R-E00	2019	3.7×10^8	-	0
F	F-1/yr	2019	0.011	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2019	2670		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.603		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Flathead sole Gulf of Alaska [FLSOLEGA]

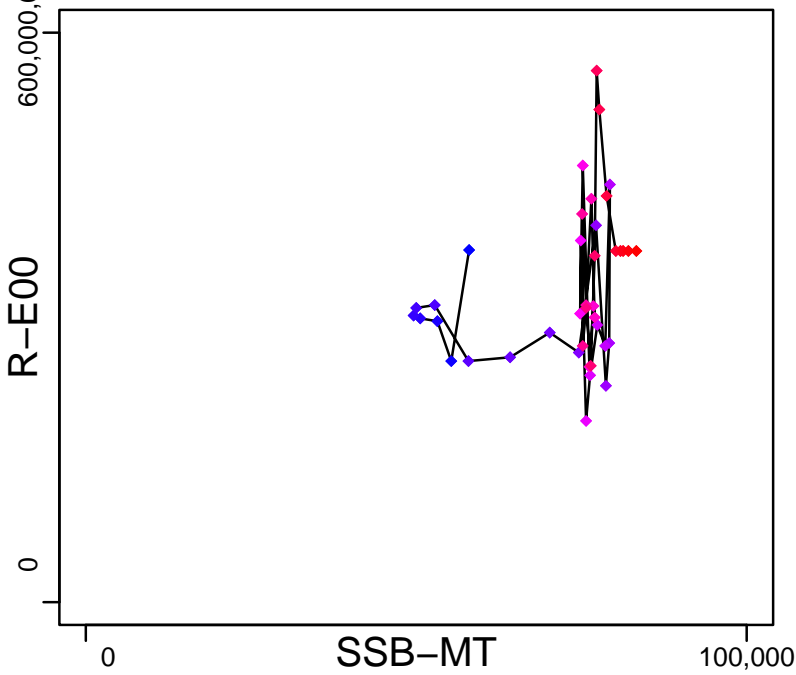
Kobe MSYpref (1978–2019–SISIMP2021–2)



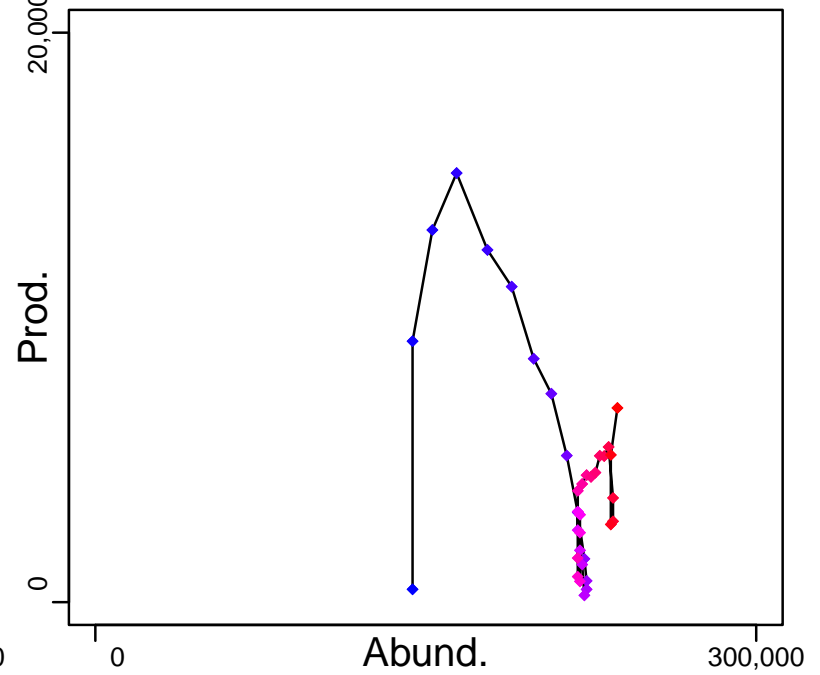
Kobe MGTpref (1978–2019–SISIMP2021–2)



Spawner Recruit (1978–2019–SISIMP2021–2)



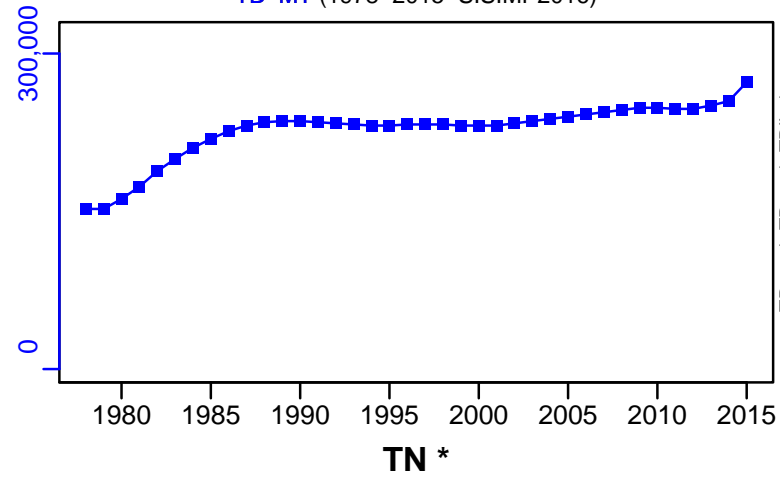
Production (1978–2015–SISIMP2016)



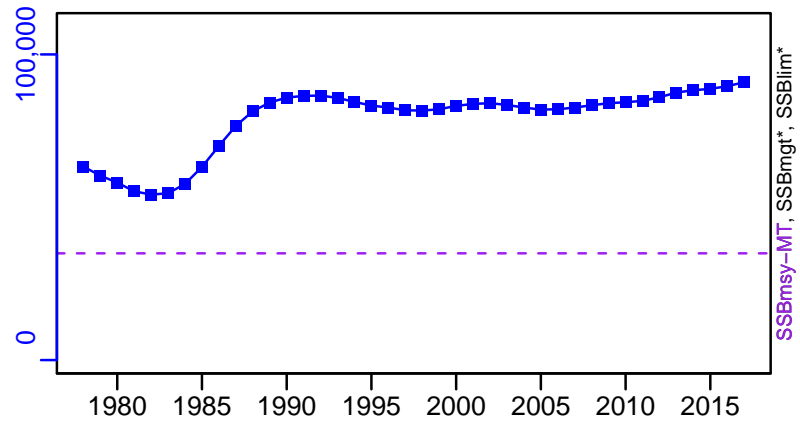
◆ Start Year ◆ End Year * No Data

Flathead sole Gulf of Alaska [FLSOLEGA]

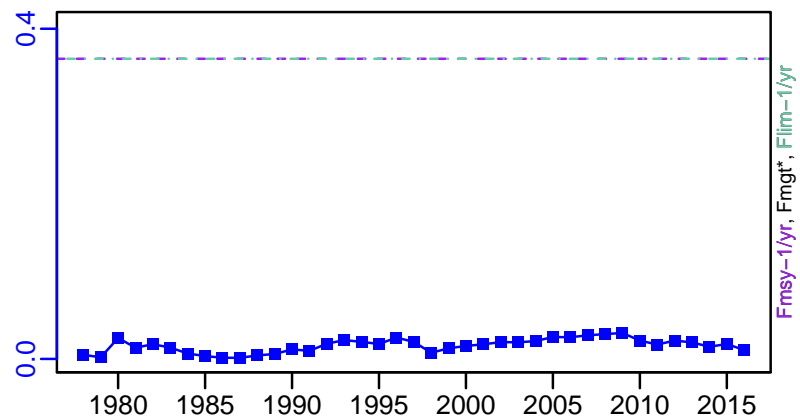
TB-MT (1978–2015–SISIMP2016)



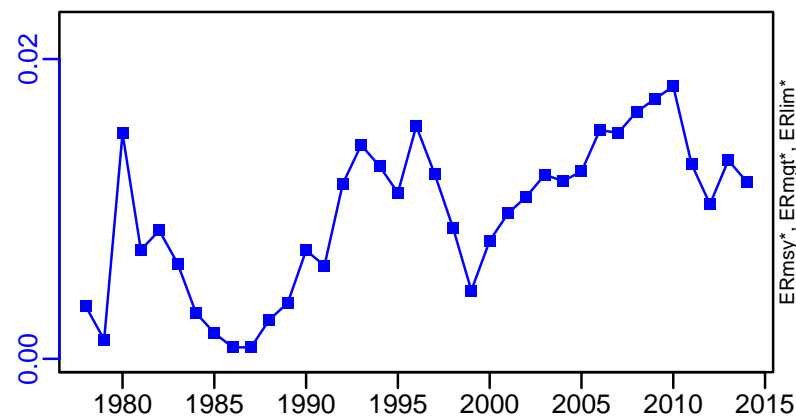
SSB-MT (1978–2019–SISIMP2021–2)



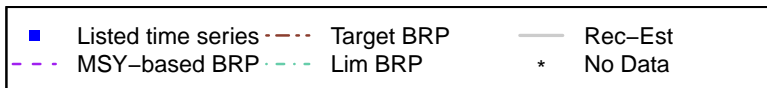
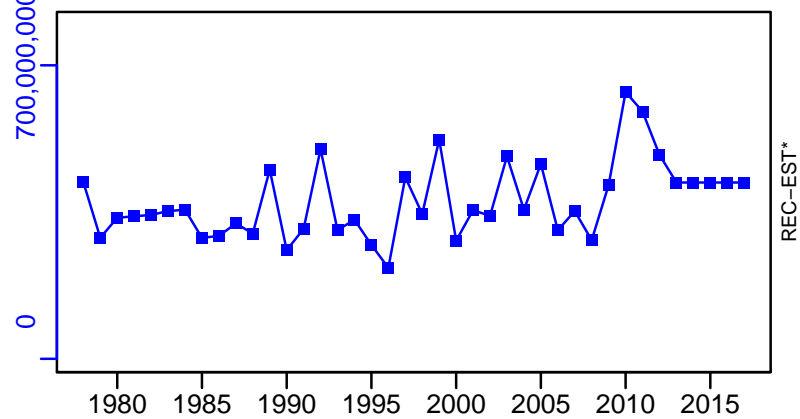
F-1/yr (1978–2019–SISIMP2021–2)



ER-calc-ratio (1978–2015–SISIMP2016)



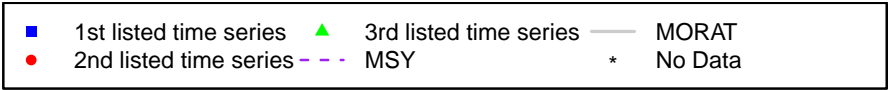
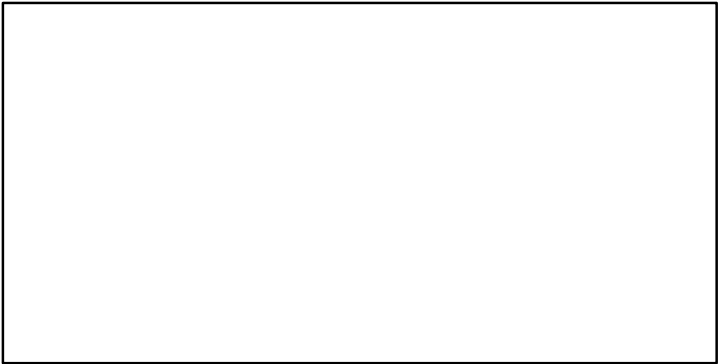
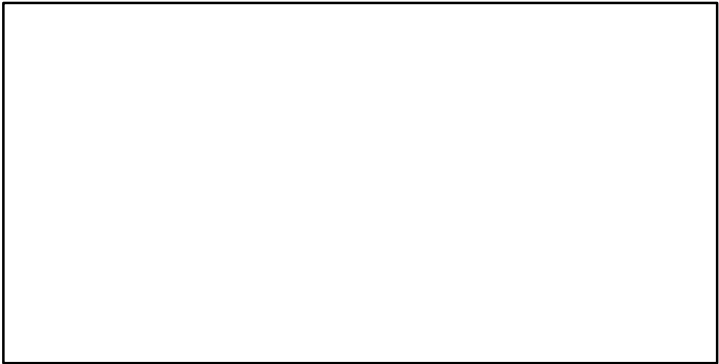
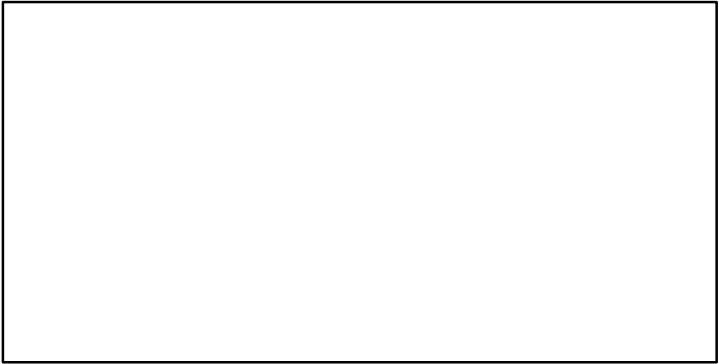
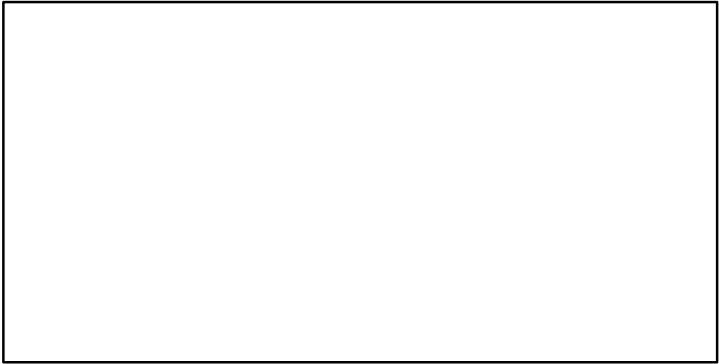
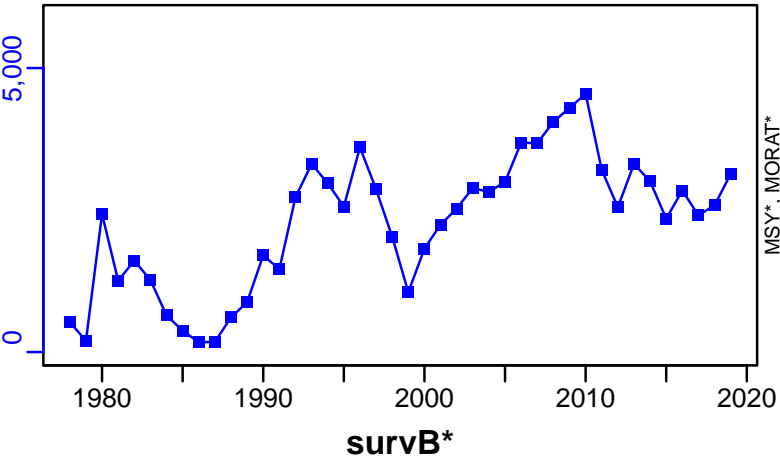
R-E00 (1978–2019–SISIMP2021–2)



Flathead sole Gulf of Alaska [FLSOLEGA]

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

TAC*, Cpair*, Cadv*



Fourspotted megrim ICES 8c-9a [FMEG8c9a]

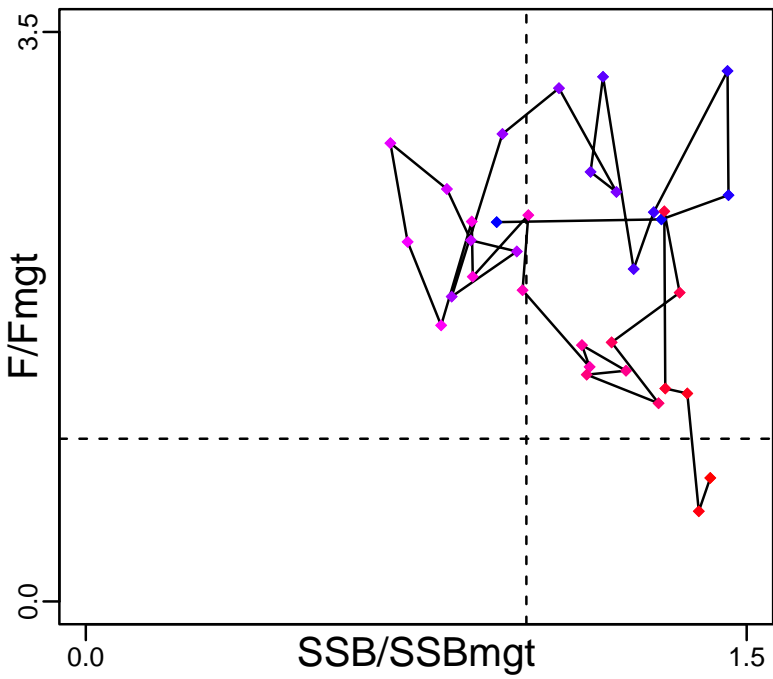
Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEG8c9a-1986-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.193
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	4600
Fmgt	Fmgt-1/yr	2021	0.193
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	3300
Flim	Flim-1/yr	2020	0.57
ERlim	-	-	-

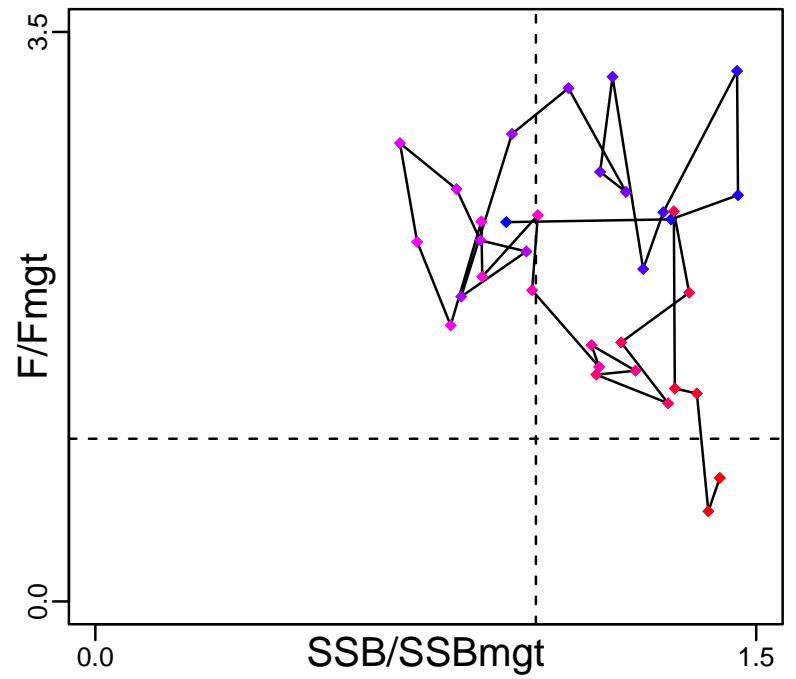
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	7878	-	-
SSB	SSB-MT	2021	8490	-	-
TN	-	-	-	-	-
R	R-E00	2021	43,200,000	-	0
F	F-1/yr	2021	0.108	-	-
ER	ER-calc-ratio	2019	0.115	-	-
TC	TC-MT	2021	792		
TL	TL-MT	2021	711		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.56		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.663		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.56		
ER/ERmgt	-	-	-		

Fourspotted megrim ICES 8c–9a [FMEG8c9a]

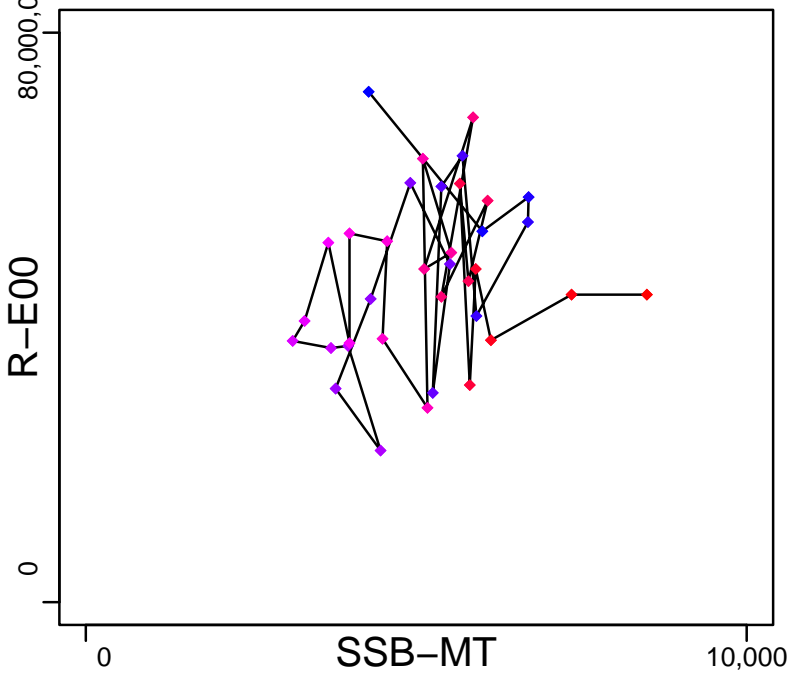
Kobe MSYpref (1986–2020–ICESIMP2021–2)



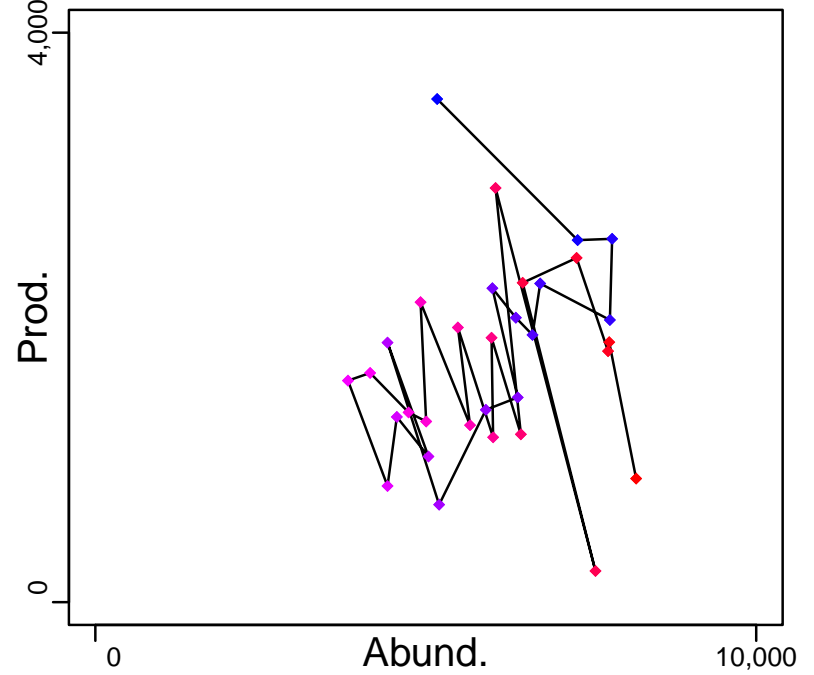
Kobe MGTpref (1986–2020–ICESIMP2021–2)



Spawner Recruit (1986–2021–ICESIMP2021–2)



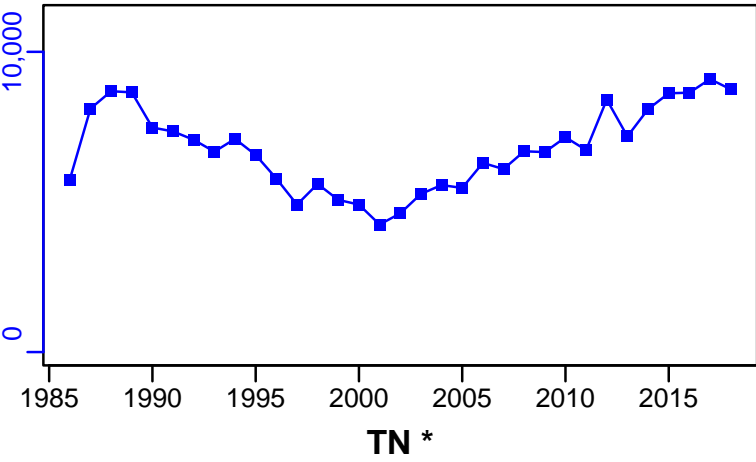
Production (1986–2019–ICESIMP2021)



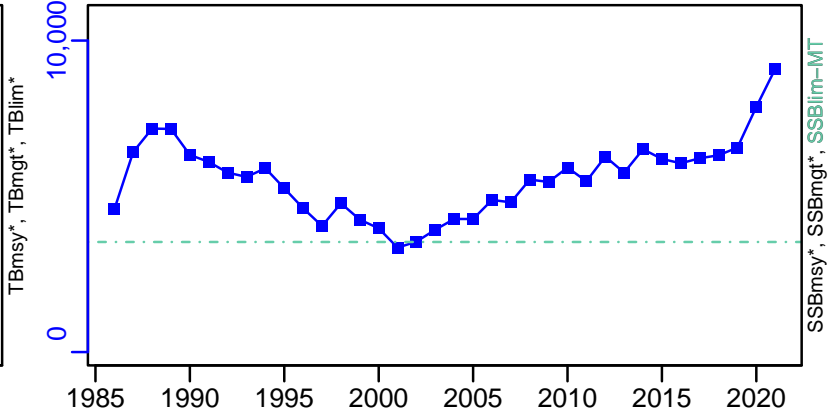
◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES 8c-9a [FMEG8c9a]

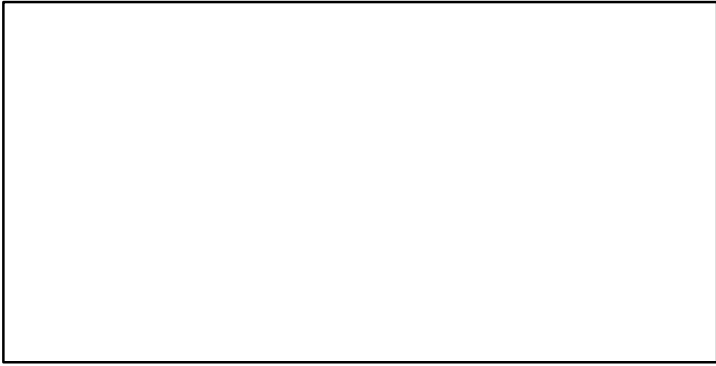
TB-MT (1986-2019-ICESIMP2021)



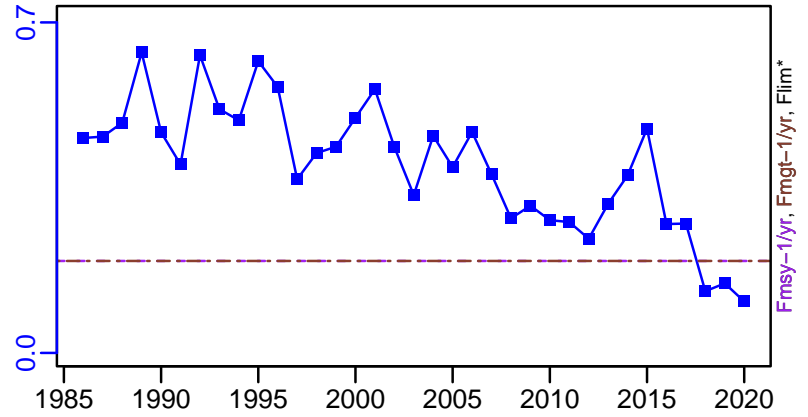
SSB-MT (1986-2021-ICESIMP2021-2)



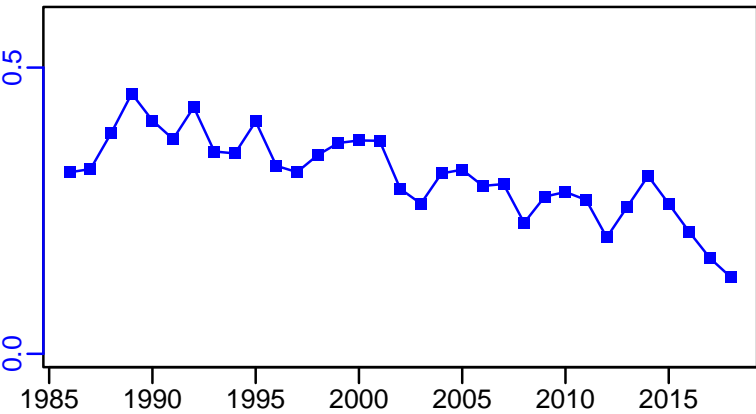
TN *



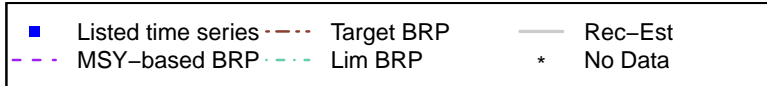
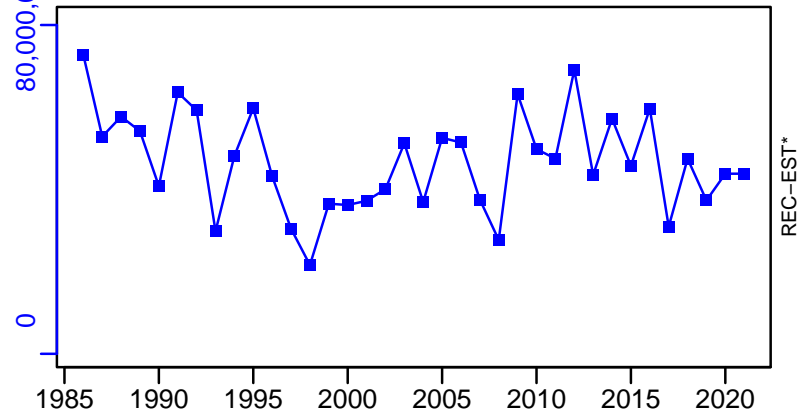
F-1/yr (1986-2021-ICESIMP2021-2)



ER-calc-ratio (1986-2019-ICESIMP2021)



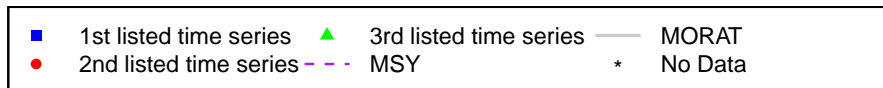
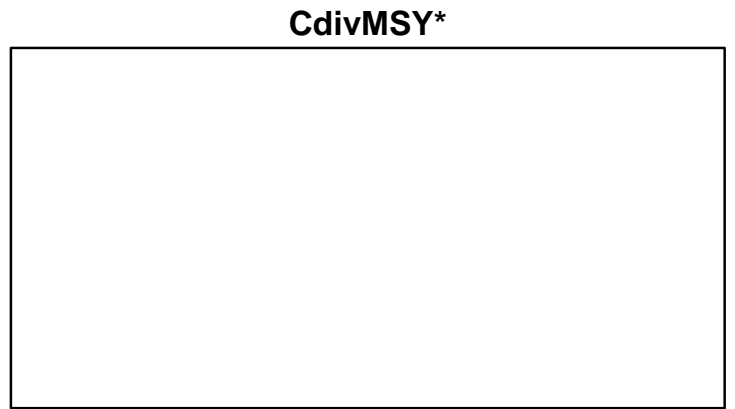
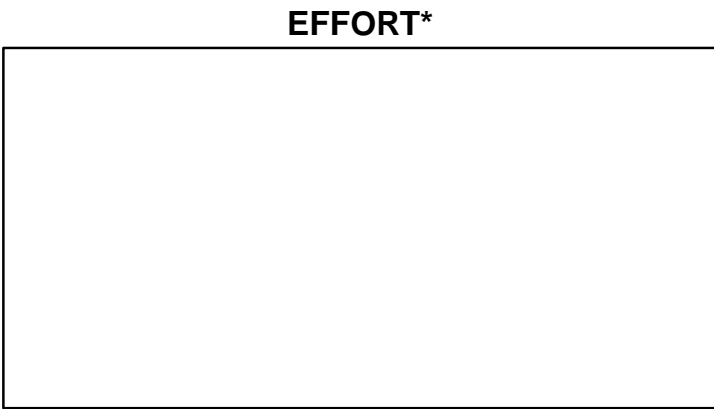
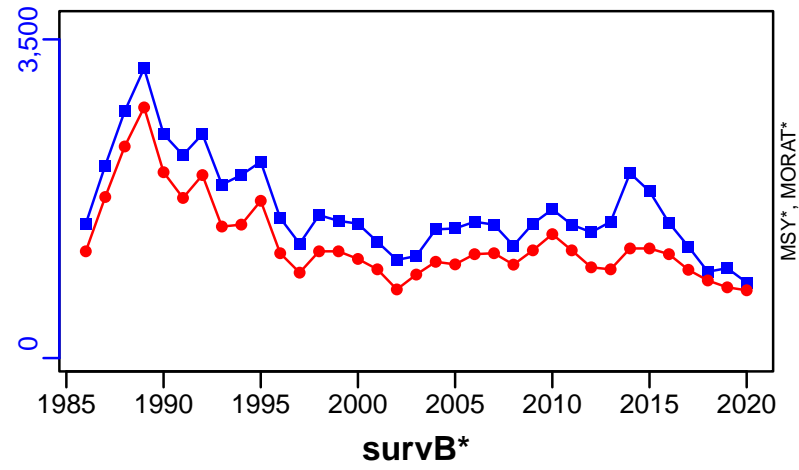
R-E00 (1986-2021-ICESIMP2021-2)



Fourspotted megrim ICES 8c–9a [FMEG8c9a]

TC–MT, TL–MT, RecC* (1986–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



Fourspotted megrim ICES 7b-k.8abd [FMEGVIIb-k_VIIIabd]

Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEGVIIb-k_VIIIabd-2017-2020-ICESIMP2021-2
Area	ICES 7b-k.8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2018, 2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	611		
TL	TL-MT	2020	488		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



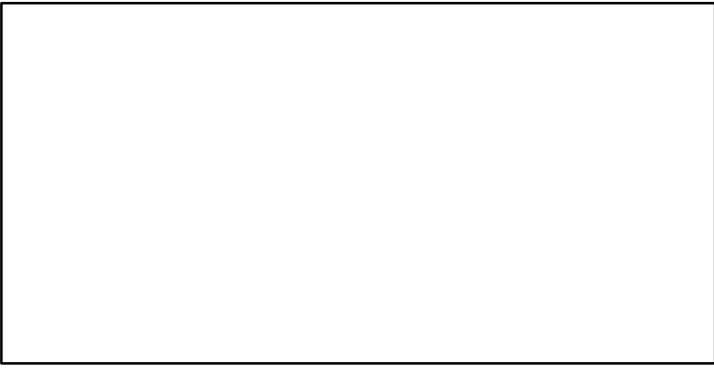
Production*



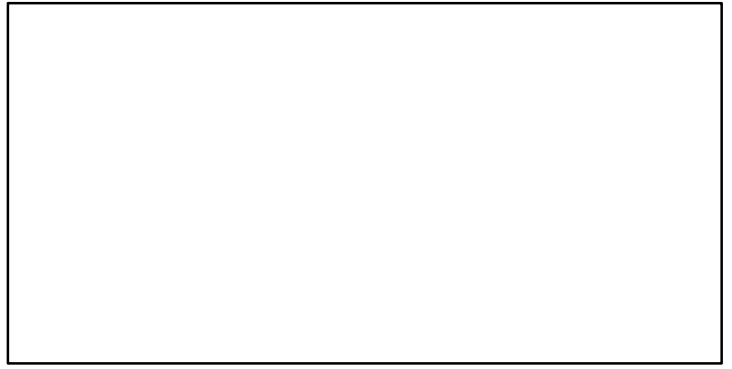
◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES 7b-k_8abd [FMEGVIIb-k_VIIIabd]

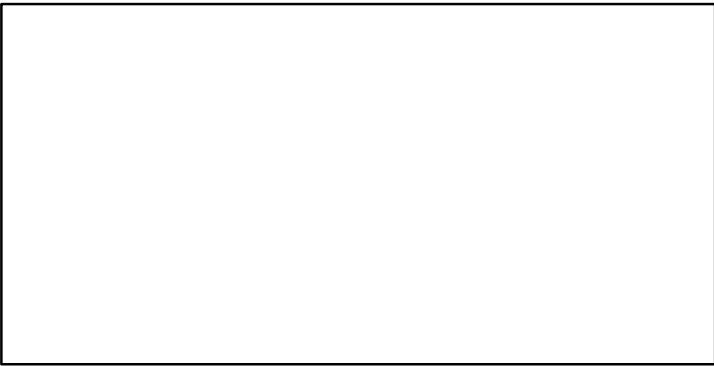
TB*



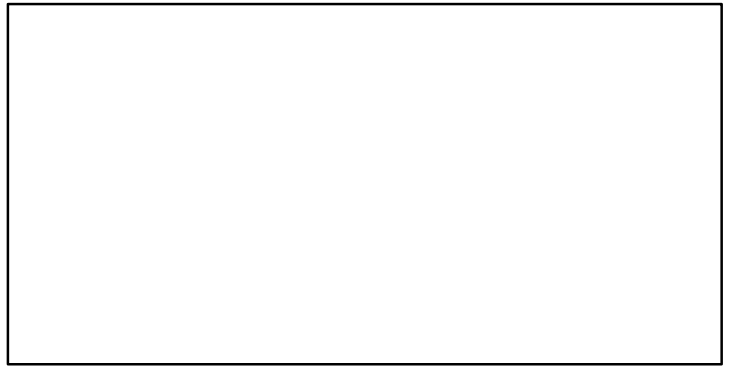
SSB*



TN *



F*



ER*

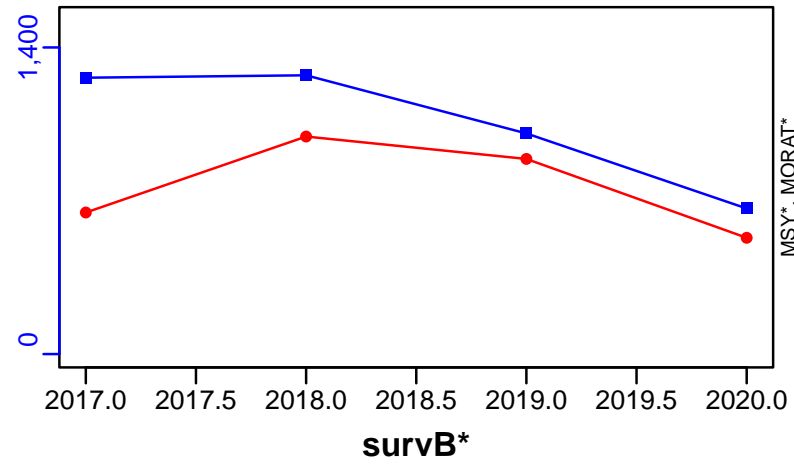


Recruits*



Fourspotted megrim ICES 7b-k_8abd [FMEGVIIb-k_VIIIabd]

TC-MT, TL-MT, RecC* (2017-2020-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



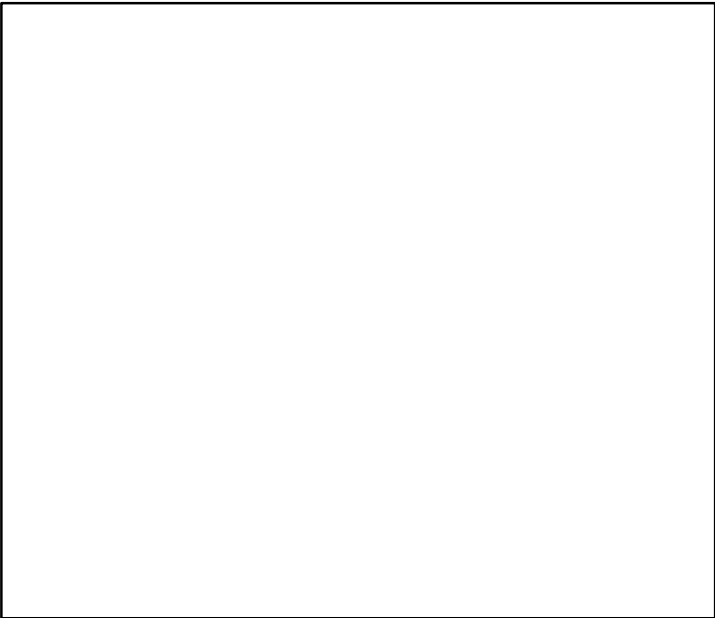
Greenland halibut NAFO divisions 01ABCDEF [GHAL01ABCDEF]

Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE
Area	NAFO divisions 01ABCDEF
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2006	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	24,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

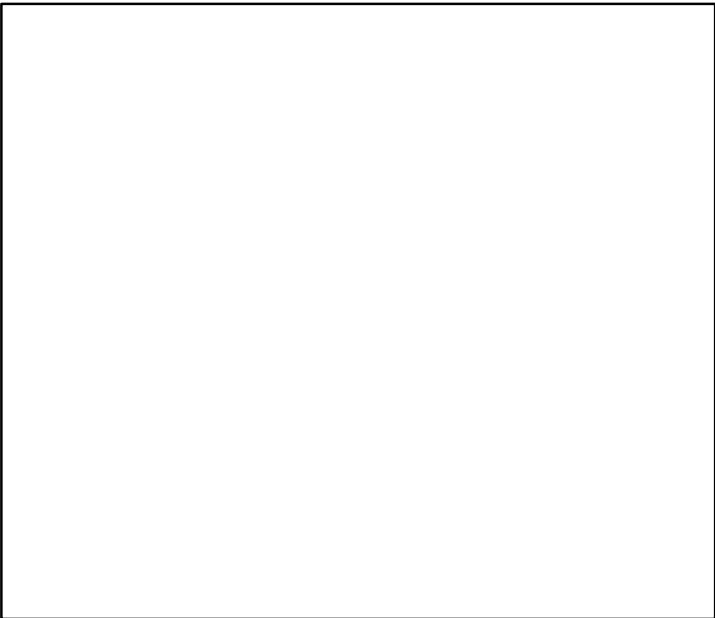
Kobe MSY*



Kobe MGT*



Spawner Recruit*

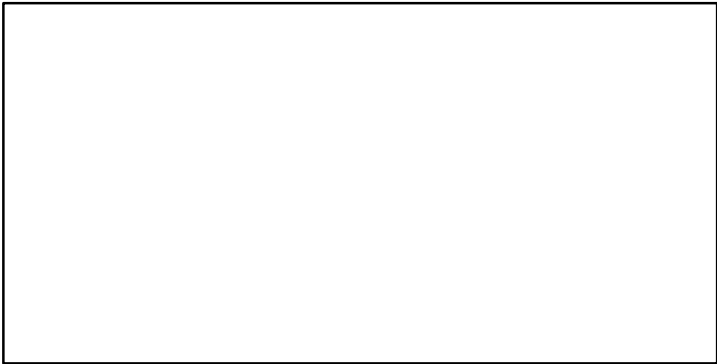


Production*

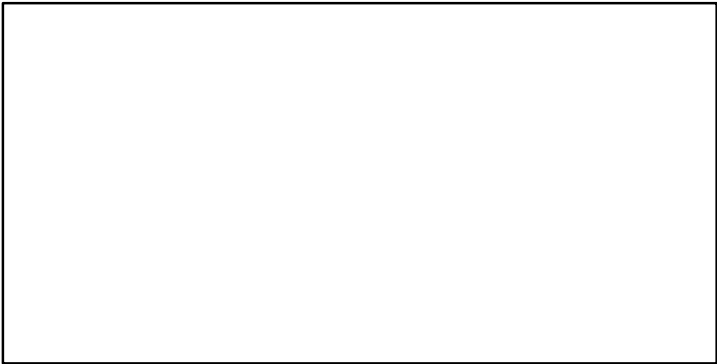


◆ Start Year ◆ End Year * No Data

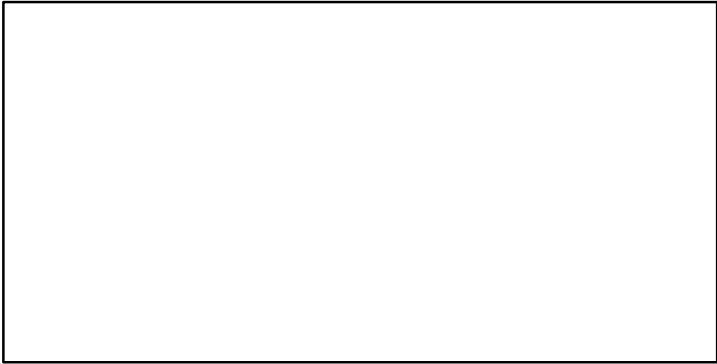
TB*



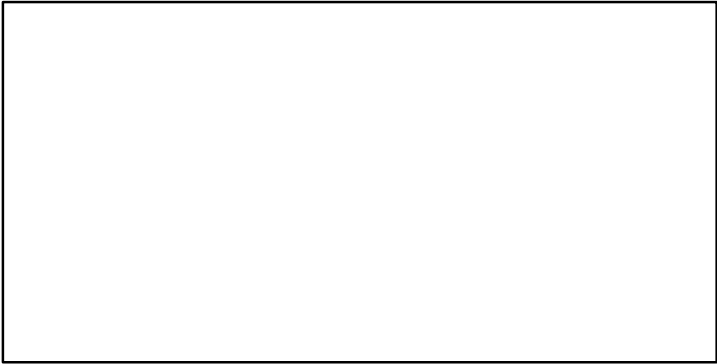
SSB*



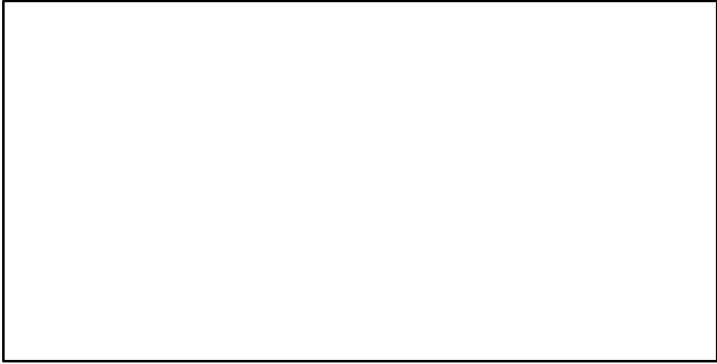
TN *



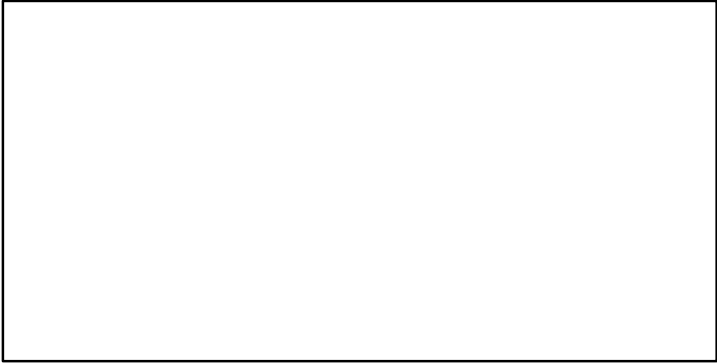
F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

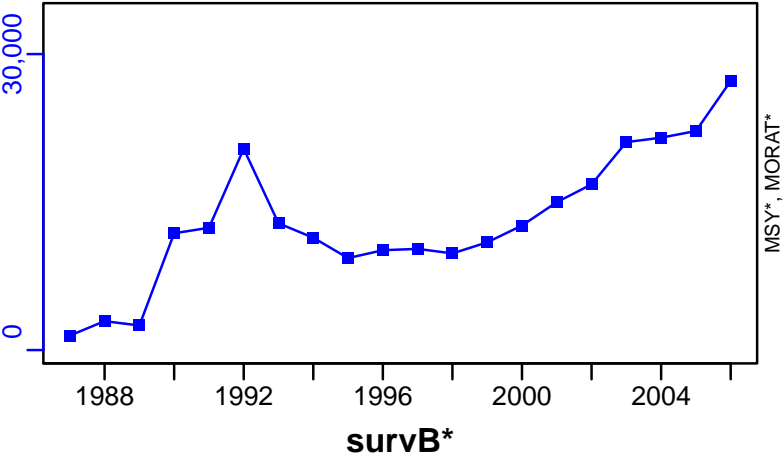
--- Lim BRP

— Rec-Est

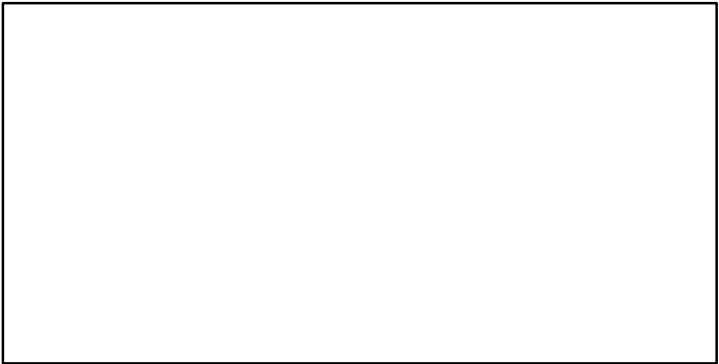
* No Data

Greenland halibut NAFO divisions 01ABCDEF [GHAL01ABCDEF]

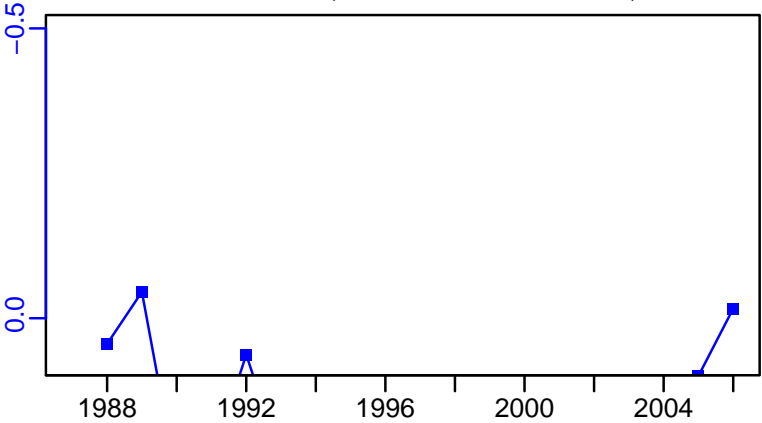
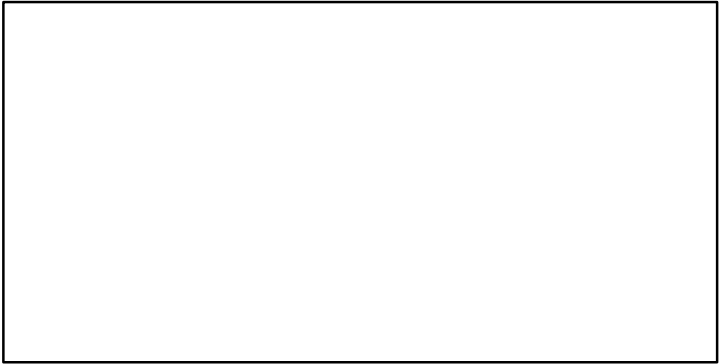
TC-MT, TL*, RecC* (1987-2006-PREFONTAINE)



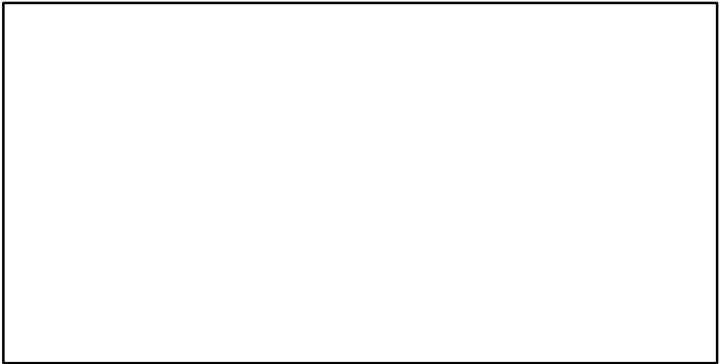
TAC*, Cpair*, Cadv*



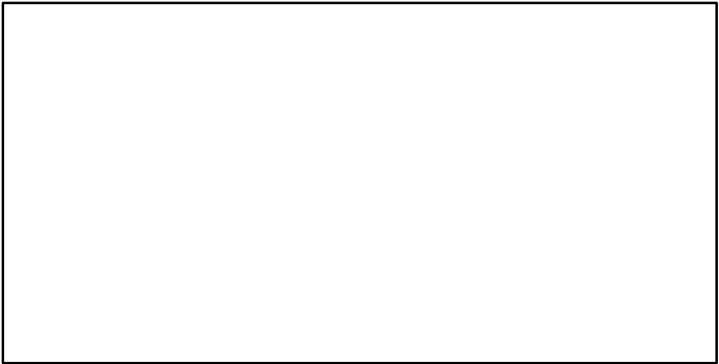
CPUEraw-C/E (1987-2006-PREFONTAINE)



EFFORT*



CdivMSY*



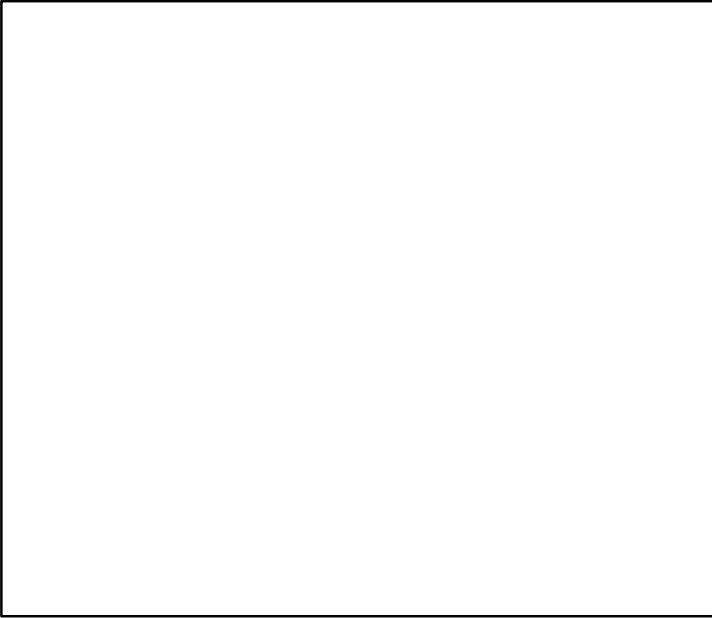
Greenland halibut Labrador Shelf - Grand Banks [GHAL23KLMNO]

Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NAFO-SC-GHAL23KLMNO-1960-2010-WATSON
Area	Labrador Shelf - Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2006, 2010

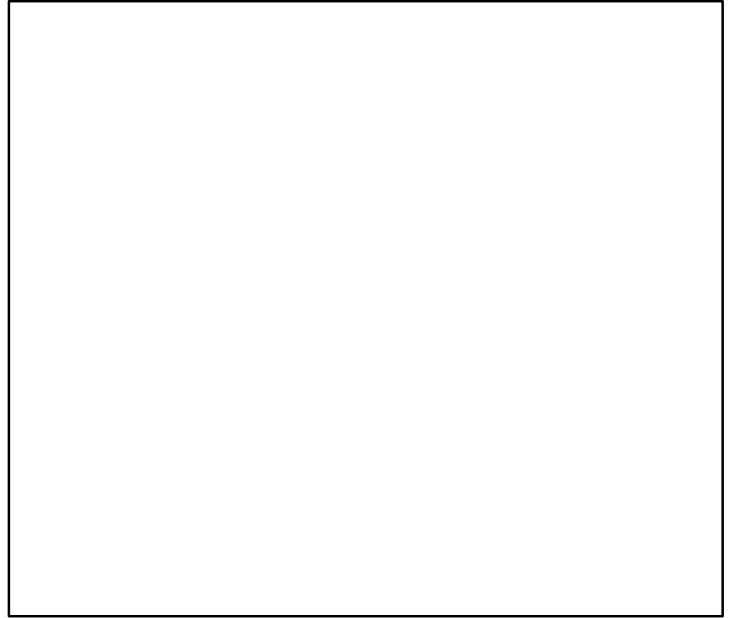
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2006	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	76,500	-	5+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2006	54,600,000	-	-
F	F-1/yr	2006	0.588	-	5 to 10
ER	ER-ratio	2006	0.314	-	-
TC	TC-MT	2010	6530		
TL	TL-MT	2006	24,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

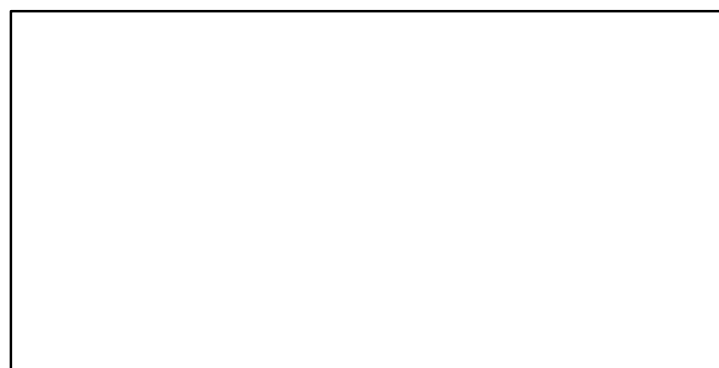
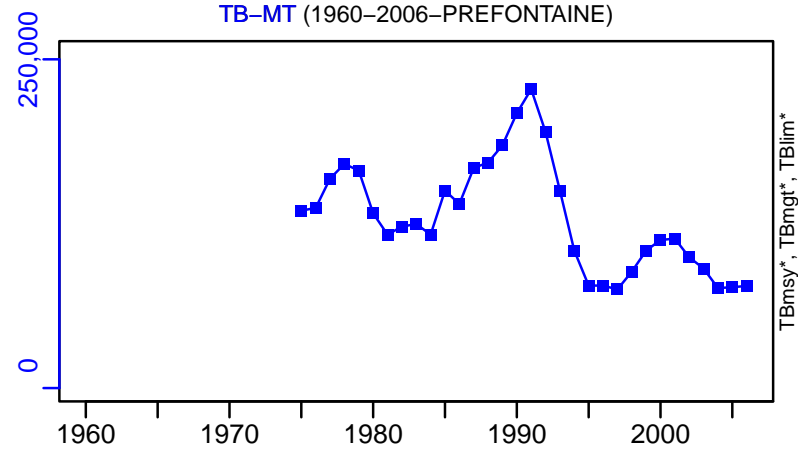


◆ Start Year ◆ End Year * No Data

Greenland halibut Labrador Shelf – Grand Banks [GHAL23KLMNO]

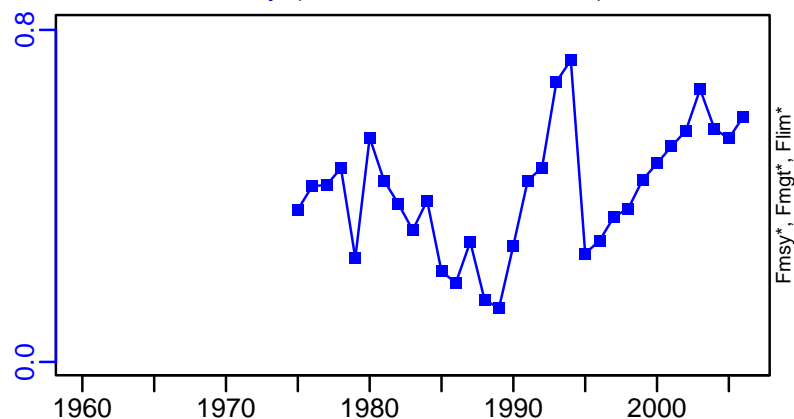
TB-MT (1960–2006–PREFONTAINE)

SSB*



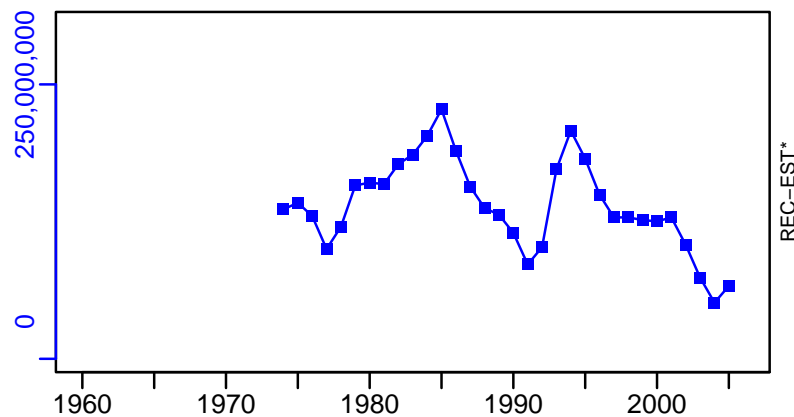
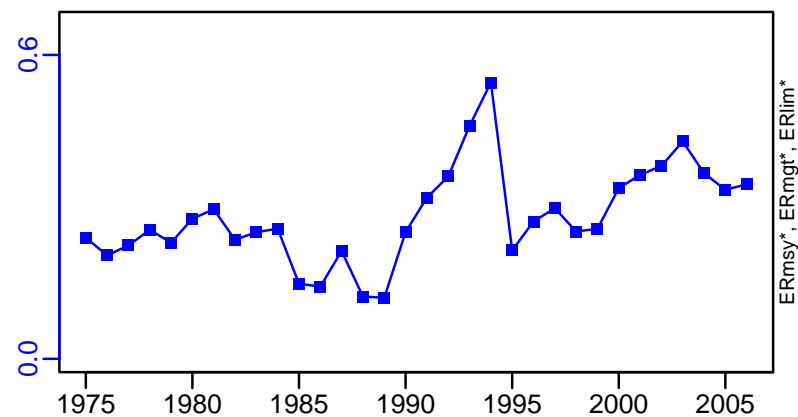
TN *

F-1/yr (1960–2006–PREFONTAINE)



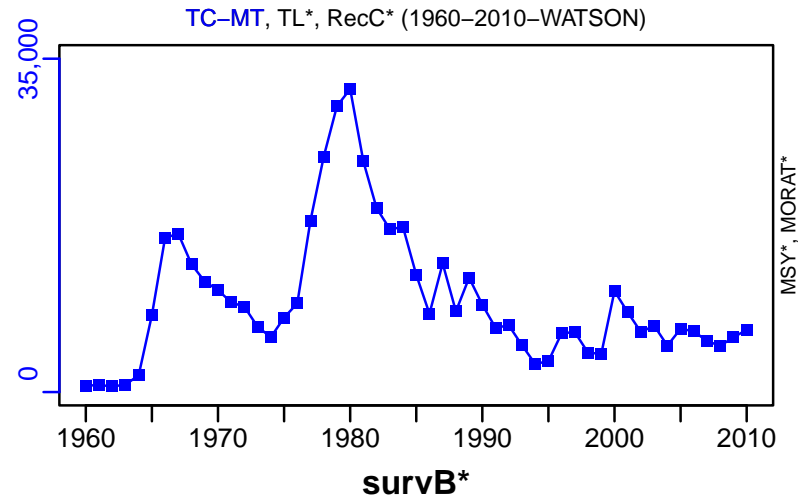
ER-ratio (1960–2006–PREFONTAINE)

R-E00 (1960–2006–PREFONTAINE)



Greenland halibut Labrador Shelf – Grand Banks [GHAL23KLMNO]

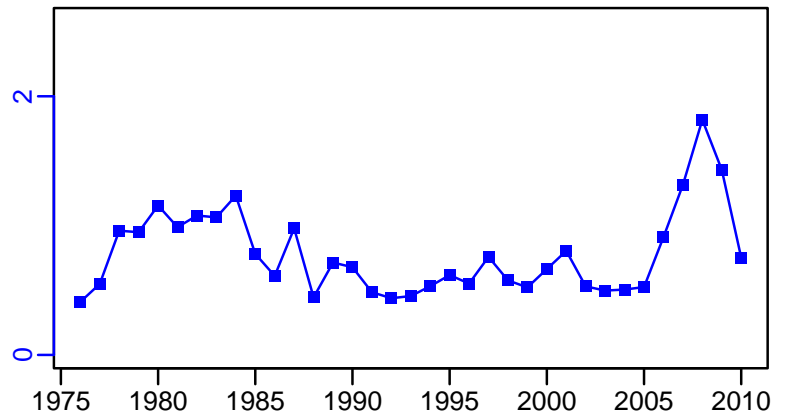
TC–MT, TL*, RecC* (1960–2010–WATSON)



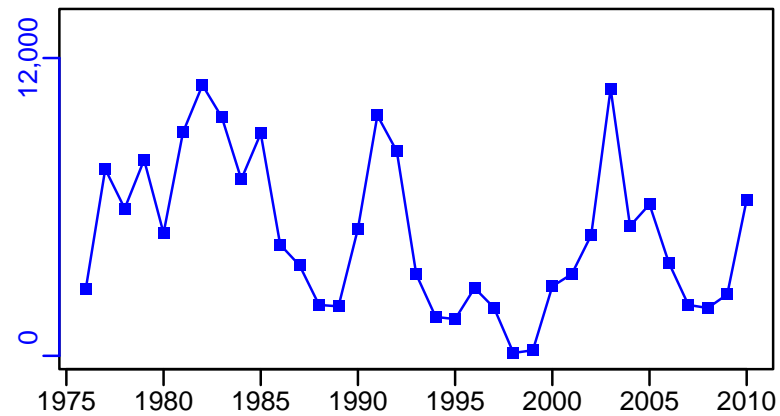
TAC*, Cpair*, Cadv*



CPUE–MT/hour (1960–2010–WATSON)



EFFORT–hour (1960–2010–WATSON)



CdivMSY*



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

Greenland halibut Gulf of St. Lawrence [GHAL4RST]

Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	DFO-QUE-GHAL4RST-1970-2022-HIVELY
Area	Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2015, 2002, 2022, 2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2015	1.44×10^8	-	3+
R	-	-	-	-	-
F	F-1/yr	2015	0.09	-	7 to 9
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2022	848		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

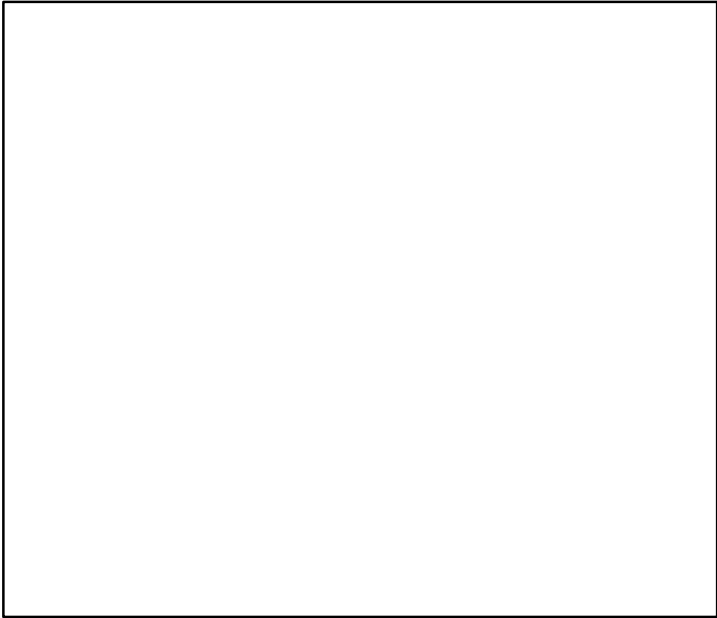
Kobe MSY*



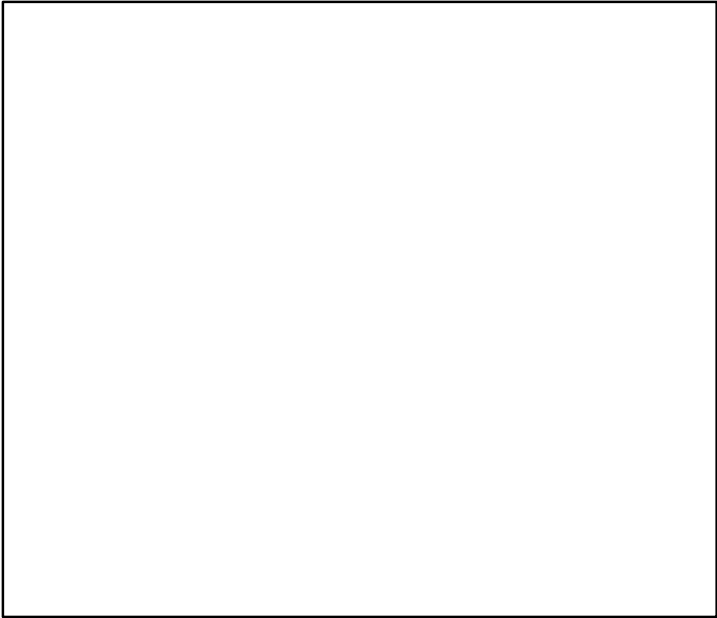
Kobe MGT*



Spawner Recruit*



Production*



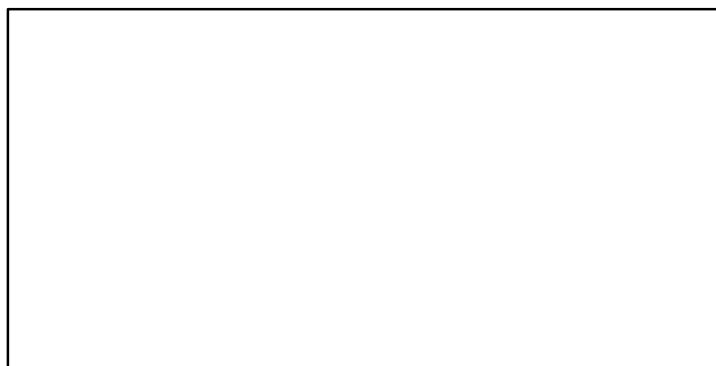
◆ Start Year ◆ End Year * No Data

Greenland halibut Gulf of St. Lawrence [GHAL4RST]

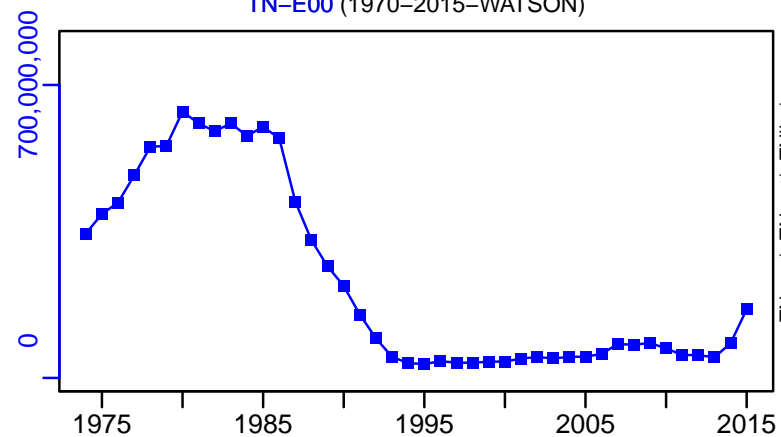
TB*



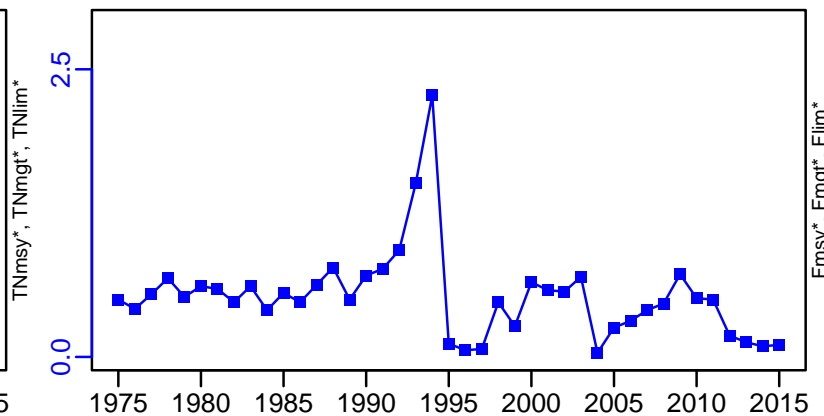
SSB*



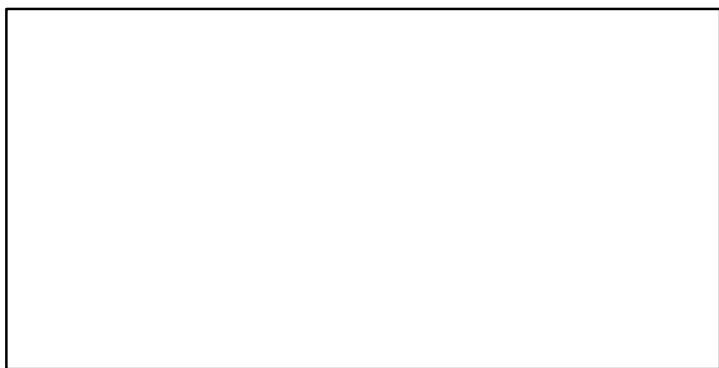
TN-E00 (1970–2015–WATSON)



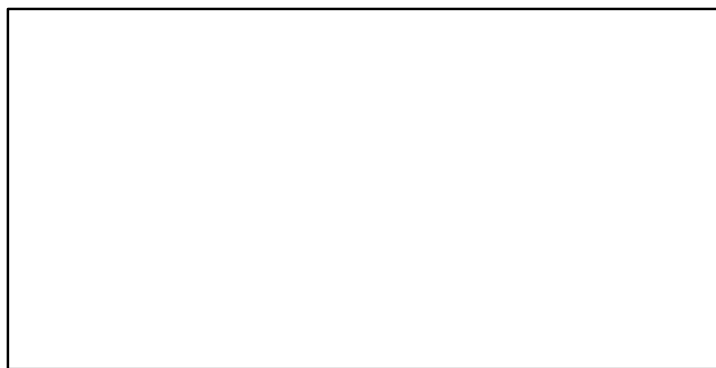
F-1/yr (1970–2015–WATSON)



ER*

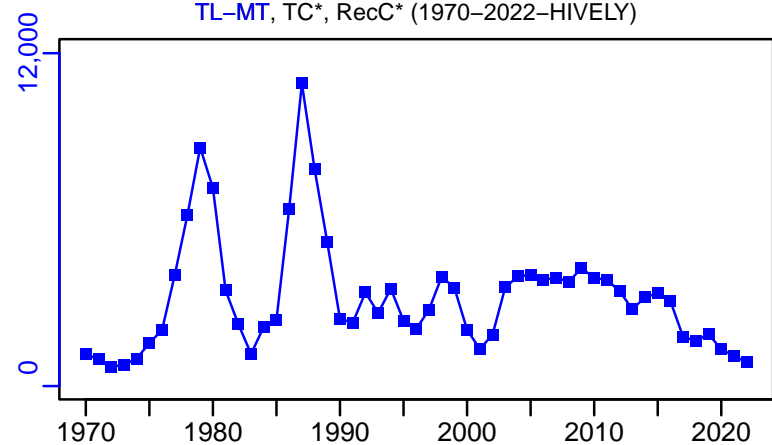


Recruits*

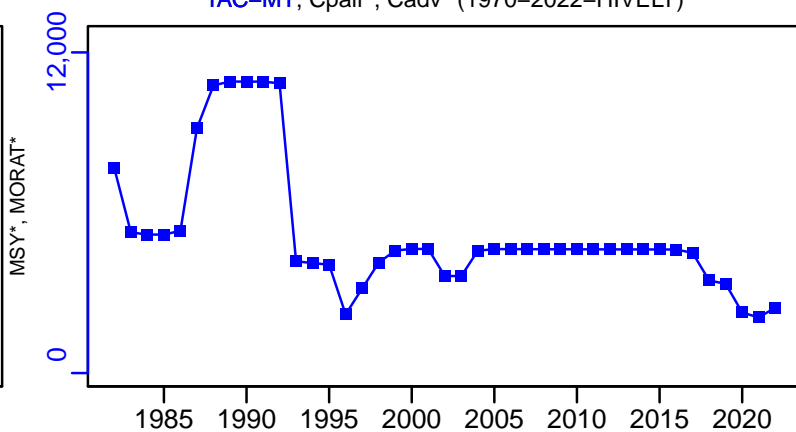


Greenland halibut Gulf of St. Lawrence [GHAL4RST]

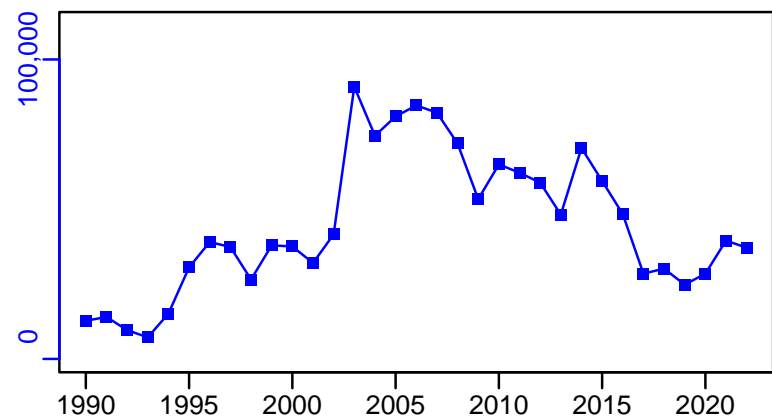
TL-MT, TC*, RecC* (1970-2022-HIVELY)



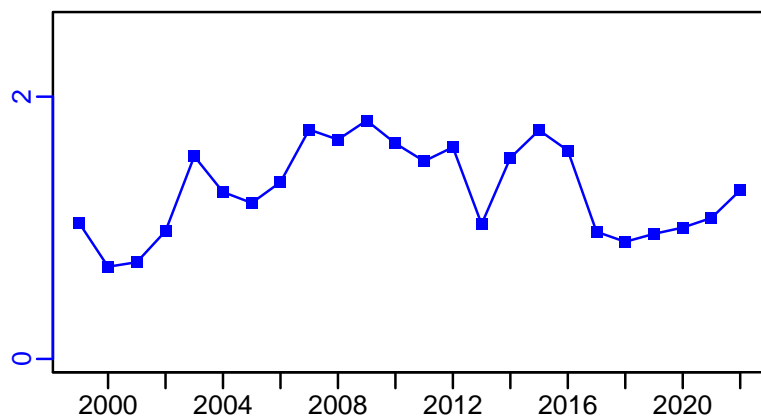
TAC-MT, Cpair*, Cadv* (1970-2022-HIVELY)



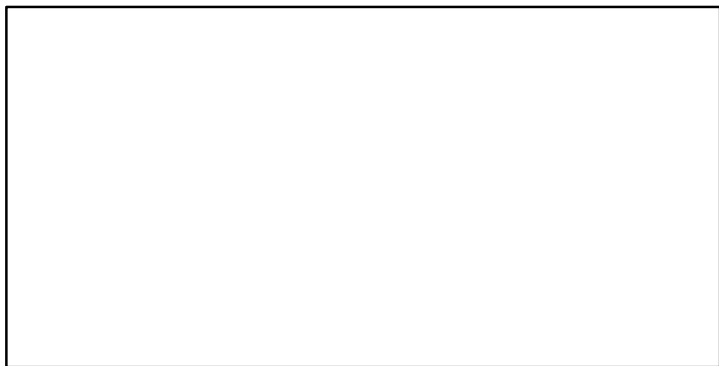
survB-MT (1970-2022-HIVELY)



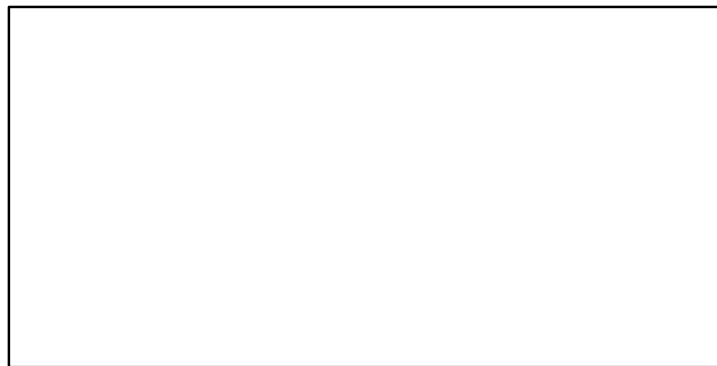
CPUE-index (1970-2022-HIVELY)



EFFORT*



CdivMSY*



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

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

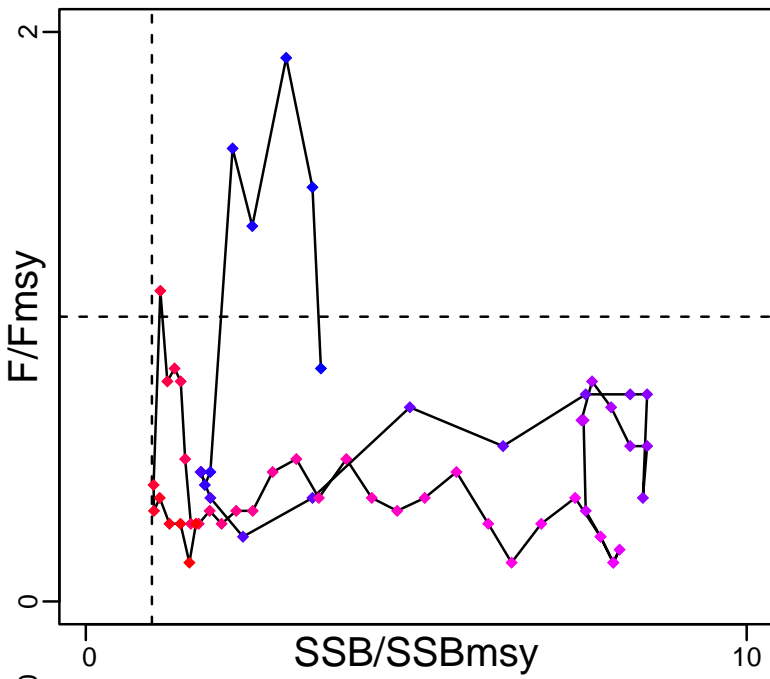
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	AFSC-GHALBSAI-1960-2020-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2018,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

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

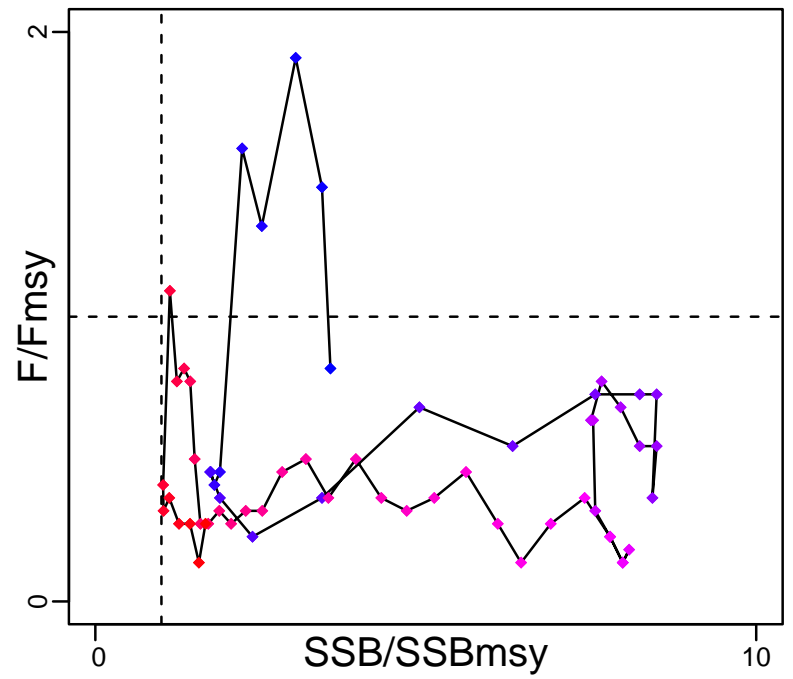
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	122,000	-	1+
SSB	SSB-MT	2020	52,900	-	-
TN	-	-	-	-	-
R	R-E00	2020	6,840,000	-	0
F	F-1/yr	2020	0.06	-	-
ER	ER-ratio	2015	0.02	-	-
TC	TC-MT	2020	2850		
TL	TL-MT	2015	1650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.696		
F/Fmsy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

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

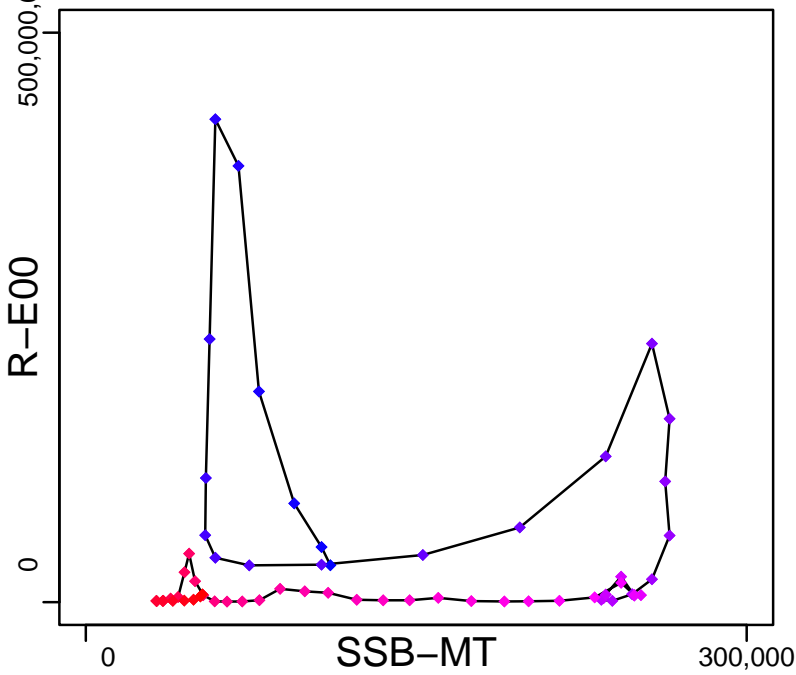
Kobe MSYpref (1960–2020–SISIMP2021–2)



Kobe MGTpref (1960–2020–SISIMP2021–2)



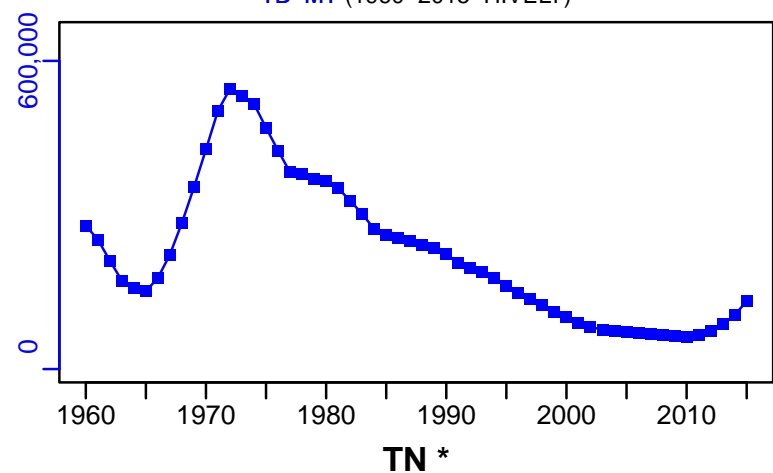
Spawner Recruit (1960–2020–SISIMP2021–2)



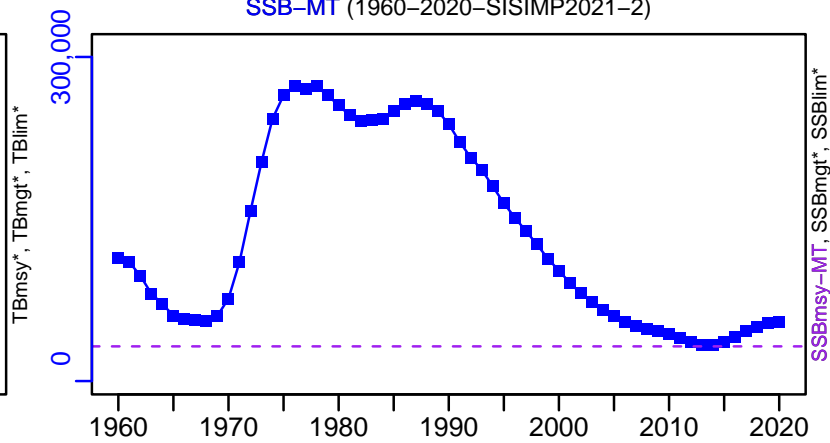
◆ Start Year ◆ End Year * No Data

Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

TB-MT (1960–2015–HIVELY)



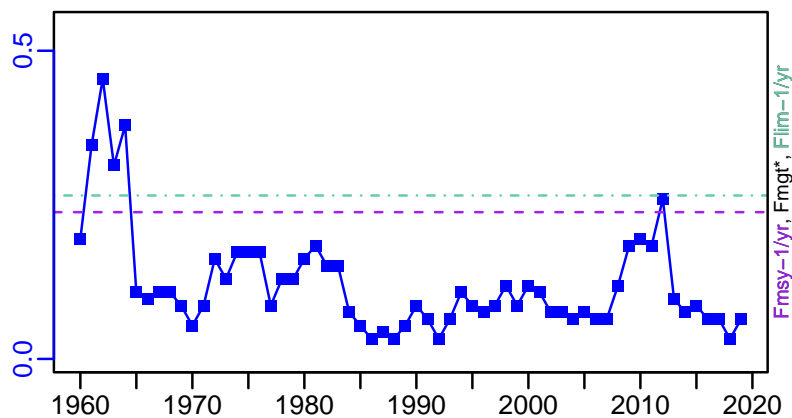
SSB-MT (1960–2020–SISIMP2021–2)



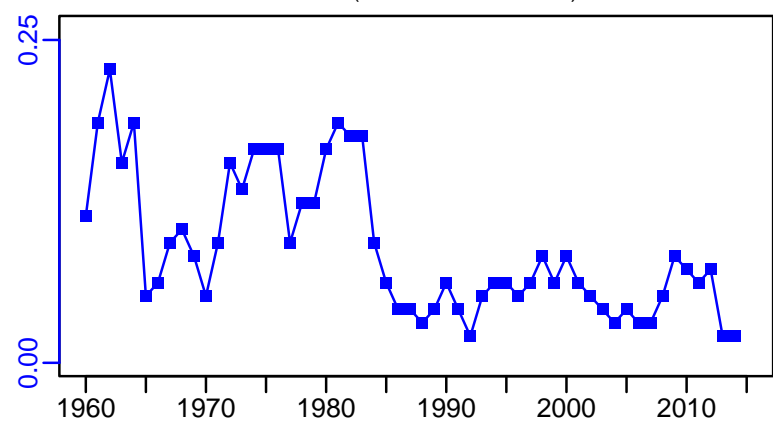
TN *



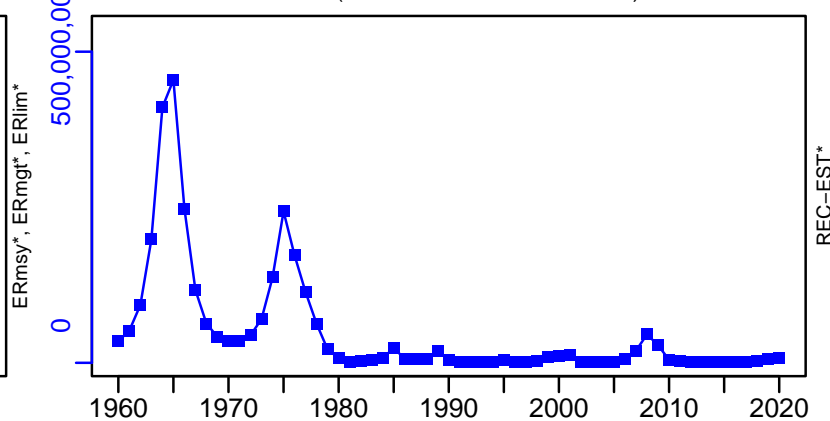
F-1/yr (1960–2020–SISIMP2021–2)



ER-ratio (1960–2015–HIVELY)



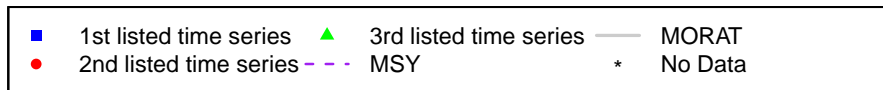
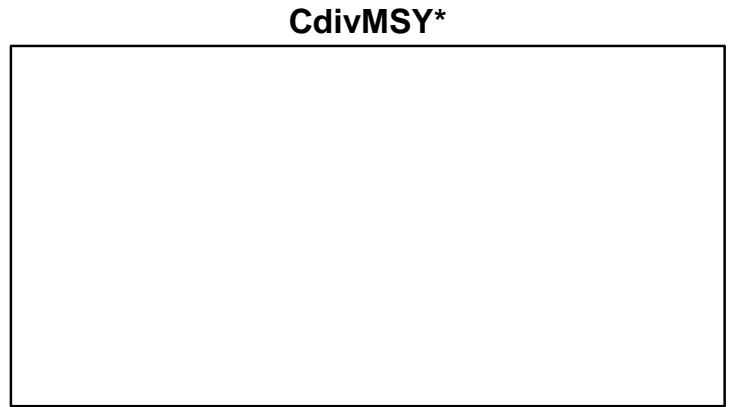
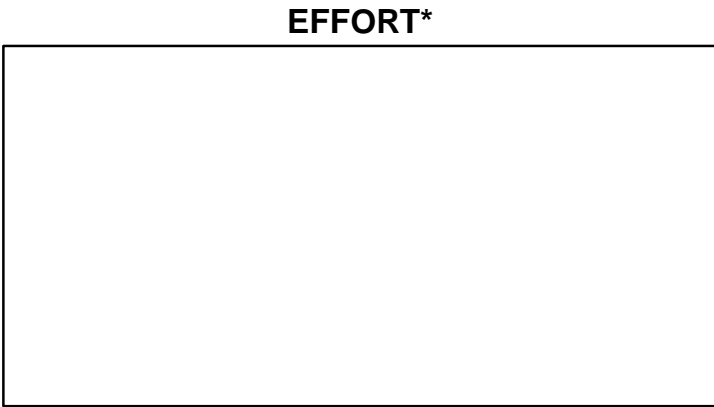
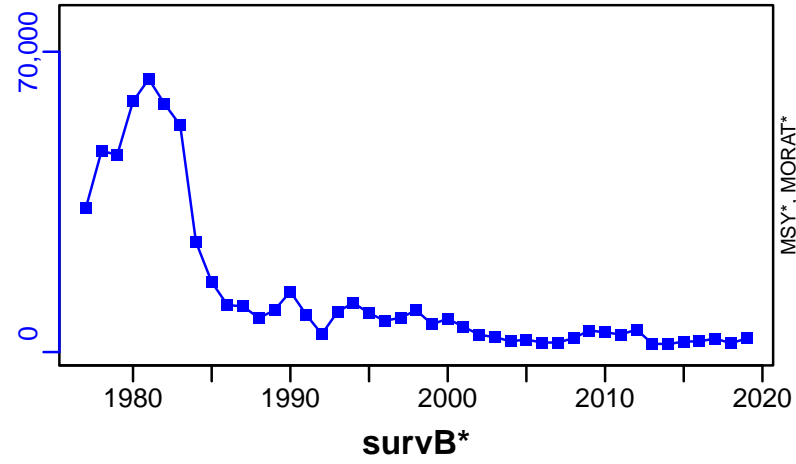
R-E00 (1960–2020–SISIMP2021–2)



Greenland halibut Bering Sea and Aleutian Islands [GHALBSAI]

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

TAC*, Cpair*, Cadv*

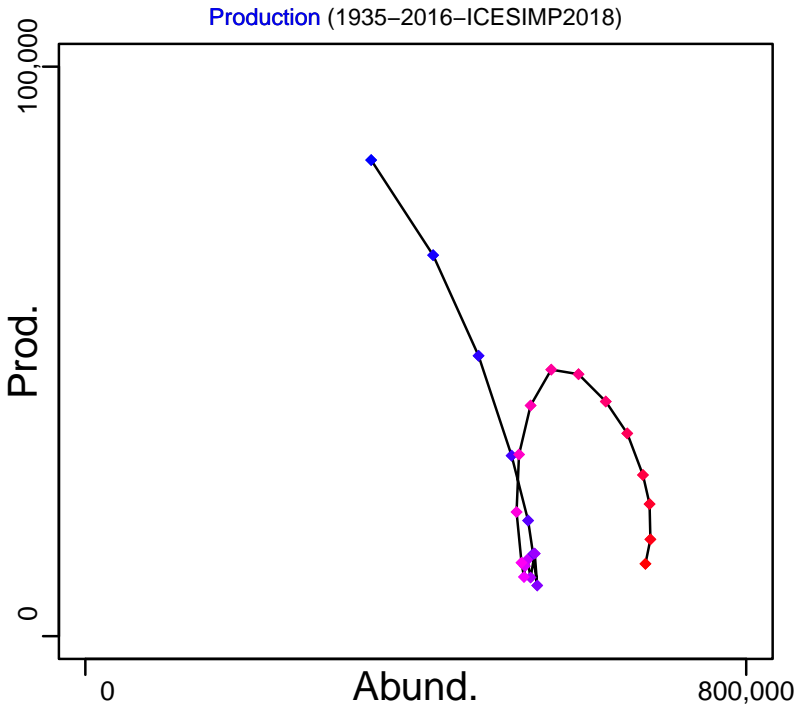
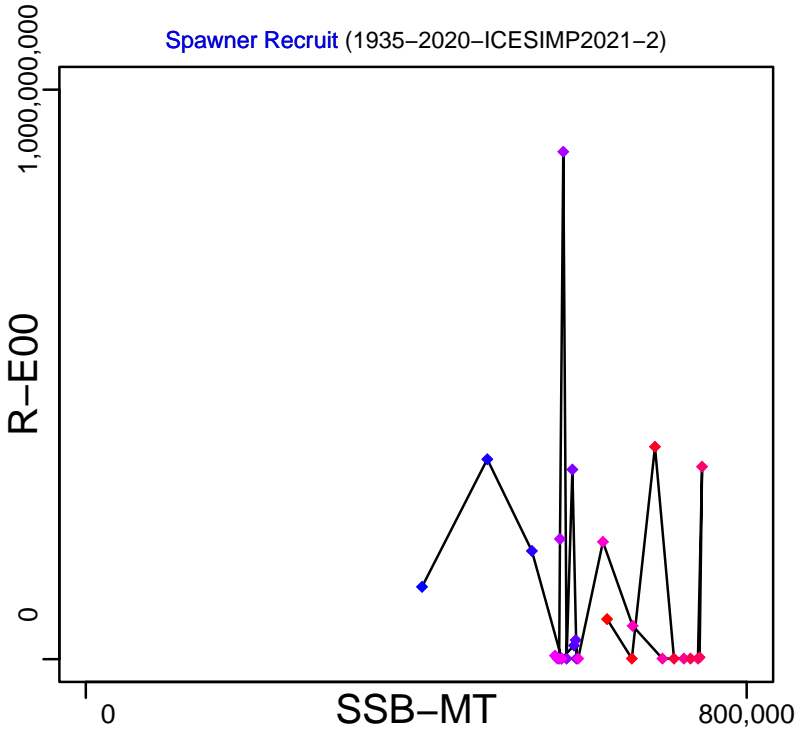
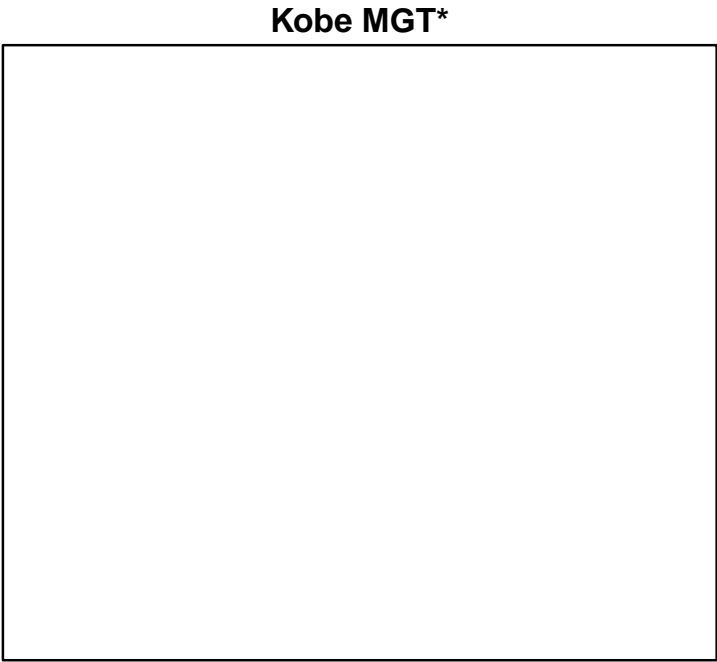
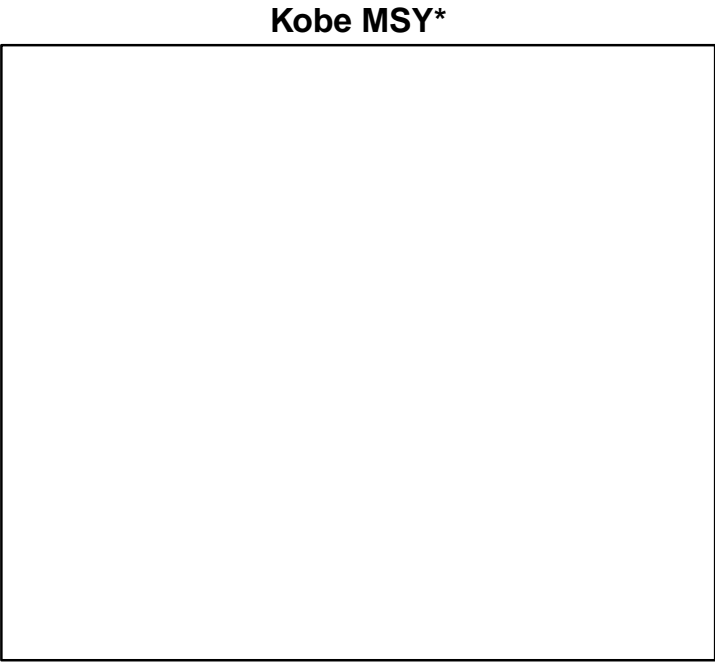


Greenland halibut North-East Arctic [GHALNEAR]

Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	AFWG-GHALNEAR-1935-2020-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Arctic Fisheries Working Group
Asmts in RAM	2016, 2019, 2020, 2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

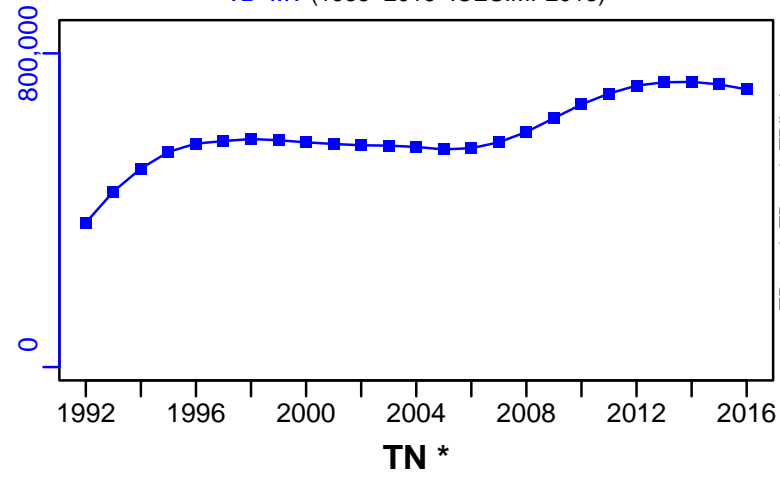
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	666,000	Both	-
SSB	SSB-MT	2020	601,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	70,300,000	-	1
F	F-relative	2020	0.048	-	-
ER	ER-ratio	2019	0.039	-	-
TC	TC-MT	2019	28,544		
TL	TL-MT	2020	28,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



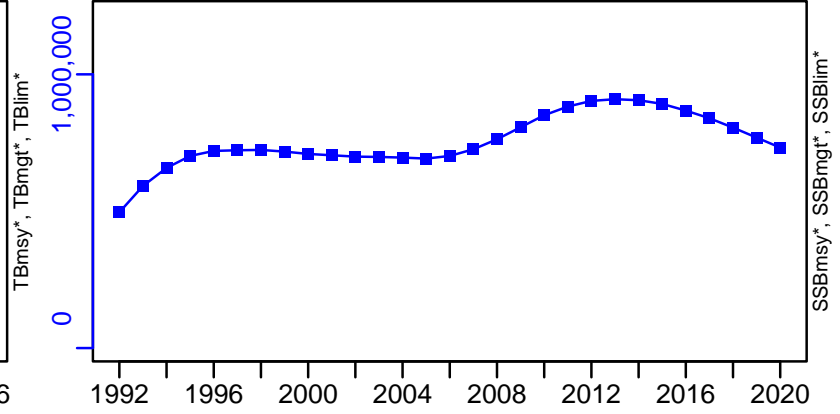
◆ Start Year ◆ End Year * No Data

Greenland halibut North-East Arctic [GHALNEAR]

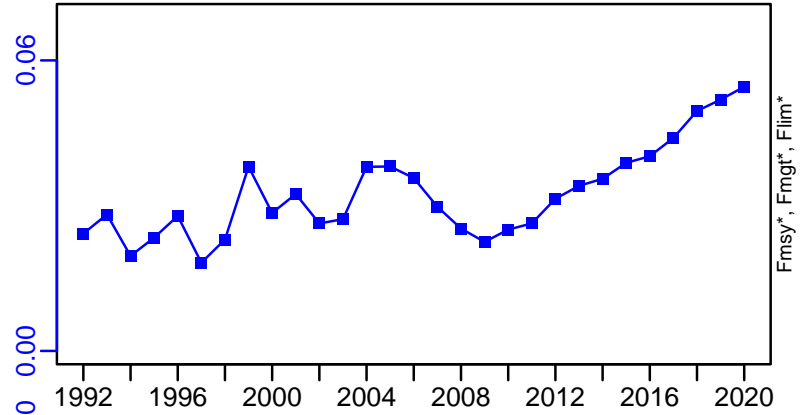
TB-MT (1935–2016–ICESIMP2018)



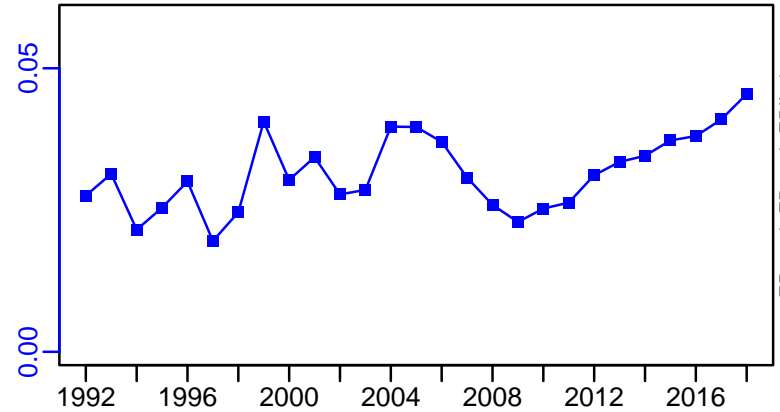
SSB-MT (1935–2020–ICESIMP2021–2)



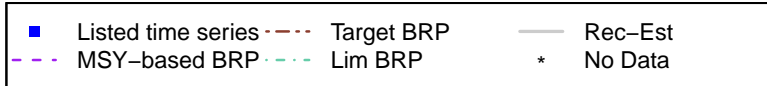
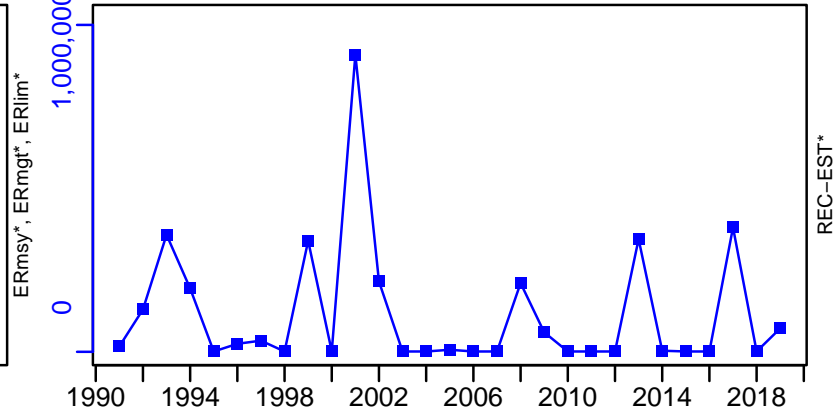
F-relative (1935–2020–ICESIMP2021–2)



ER-ratio (1935–2019–ICESIMP2021)

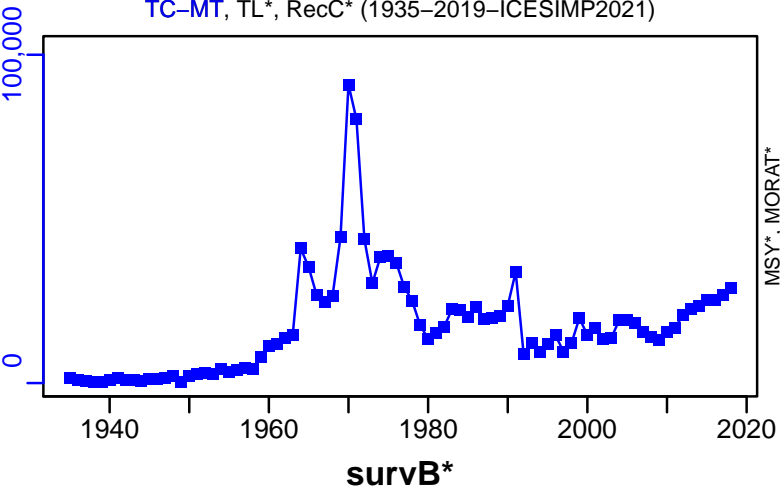


R-E00 (1935–2020–ICESIMP2021–2)



Greenland halibut North-East Arctic [GHALNEAR]

TC-MT, TL*, RecC* (1935-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Greenland halibut ICES 5-6-12-14 [GHALV-VI-XII-XIV]

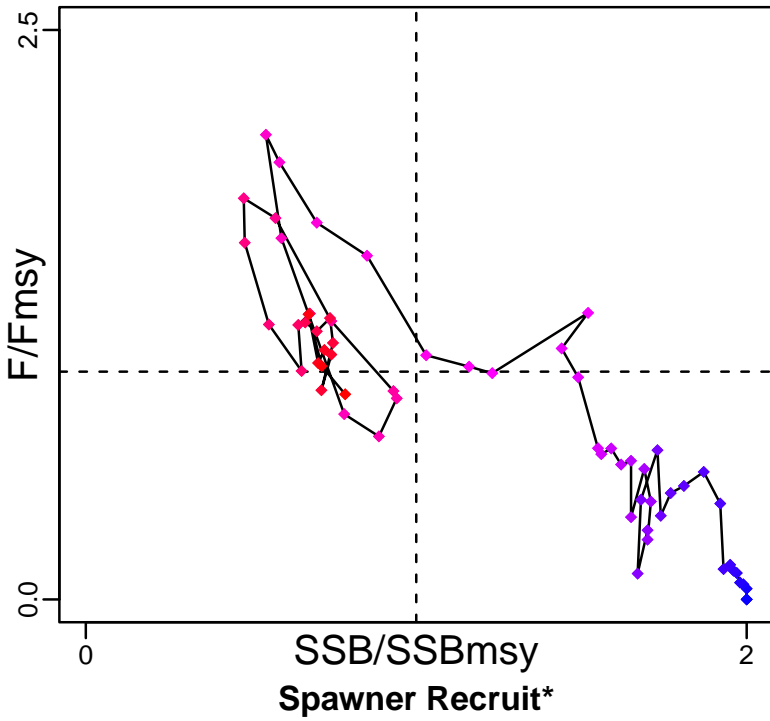
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NWWG-GHALV-VI-XII-XIV-1960-2021-ICESIMP2021-2
Area	ICES 5-6-12-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

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

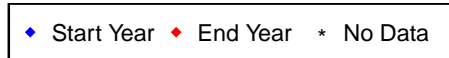
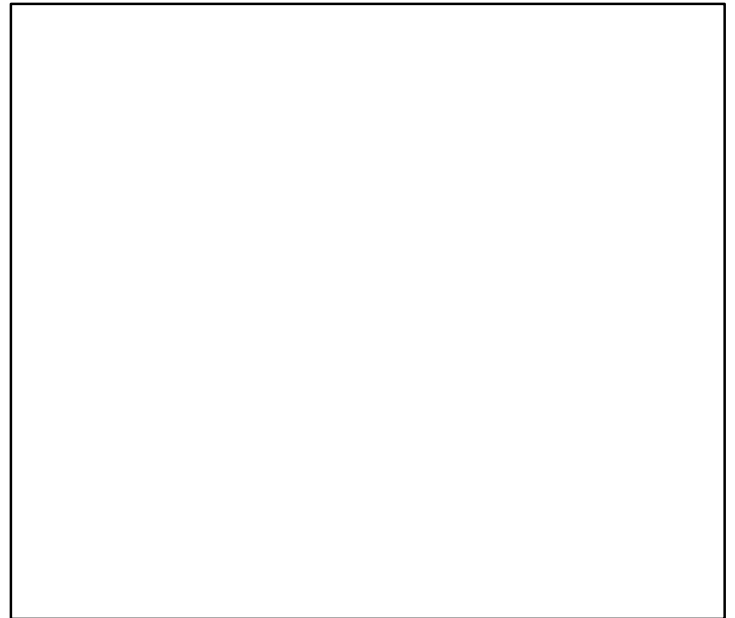
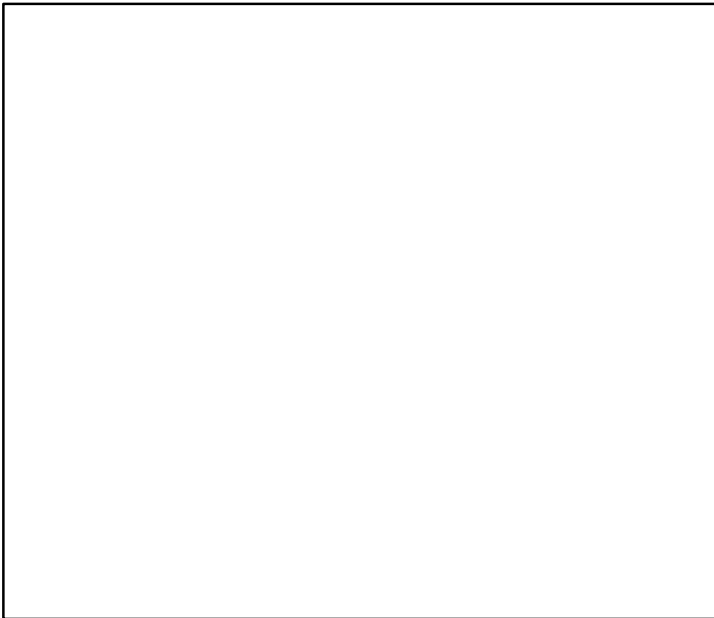
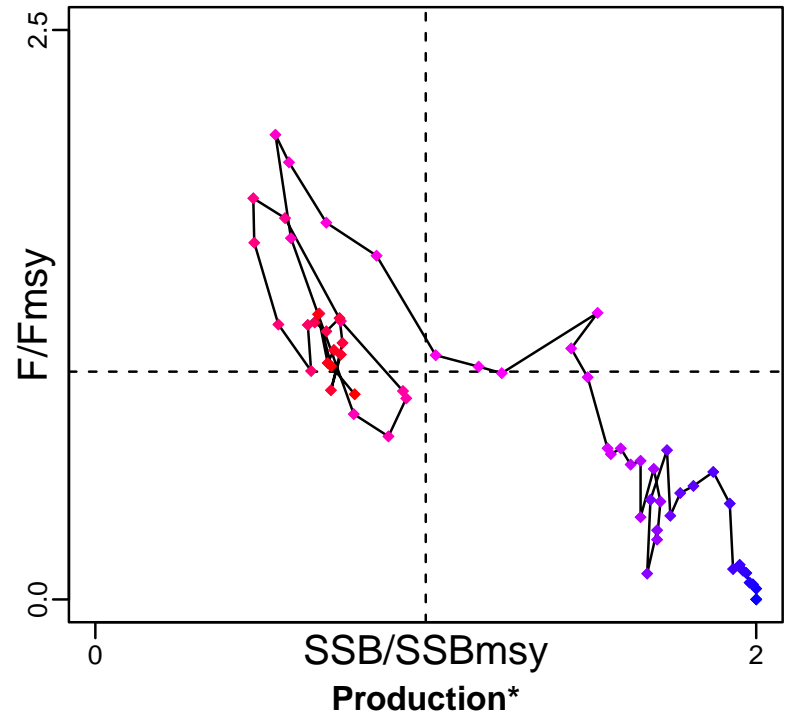
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	23,500		
TL	TL-MT	2021	22,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	0.803		
F/Fmsy	FdivFmsy-dimensionless	2021	0.901		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenland halibut ICES 5–6–12–14 [GHALV–VI–XII–XIV]

Kobe MSYpref (1960–2021–ICESIMP2021–2)



Kobe MGTpref (1960–2021–ICESIMP2021–2)



TB*



SSB*



TN *



F*



ER*

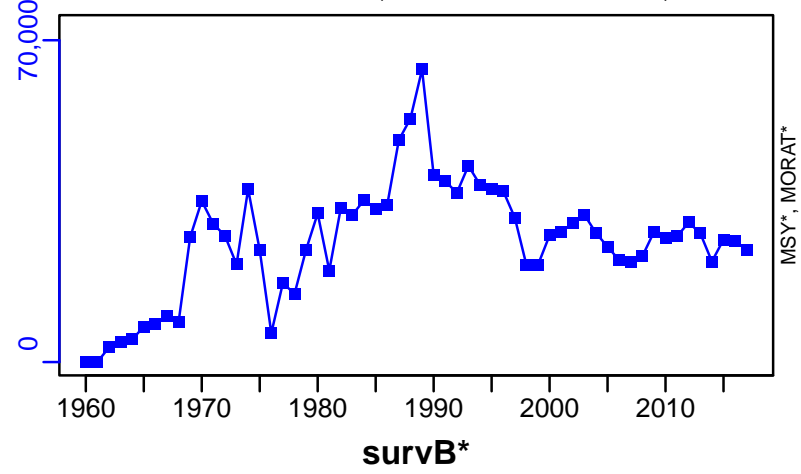


Recruits*



Greenland halibut ICES 5–6–12–14 [GHALV–VI–XII–XIV]

TC–MT, TL*, RecC* (1960–2018–ICESIMP2018)



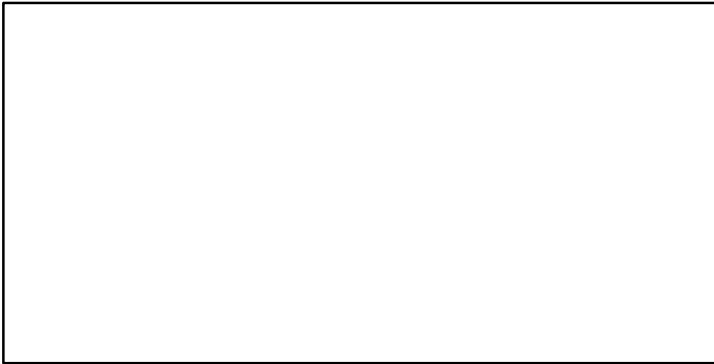
TAC*, Cpair*, Cadv*



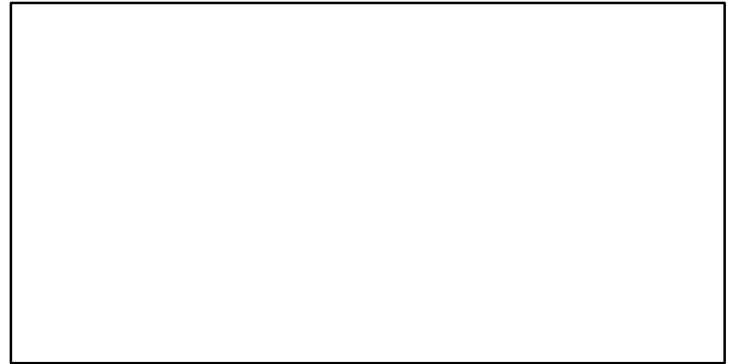
CPUE*



EFFORT*



CdivMSY*



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

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

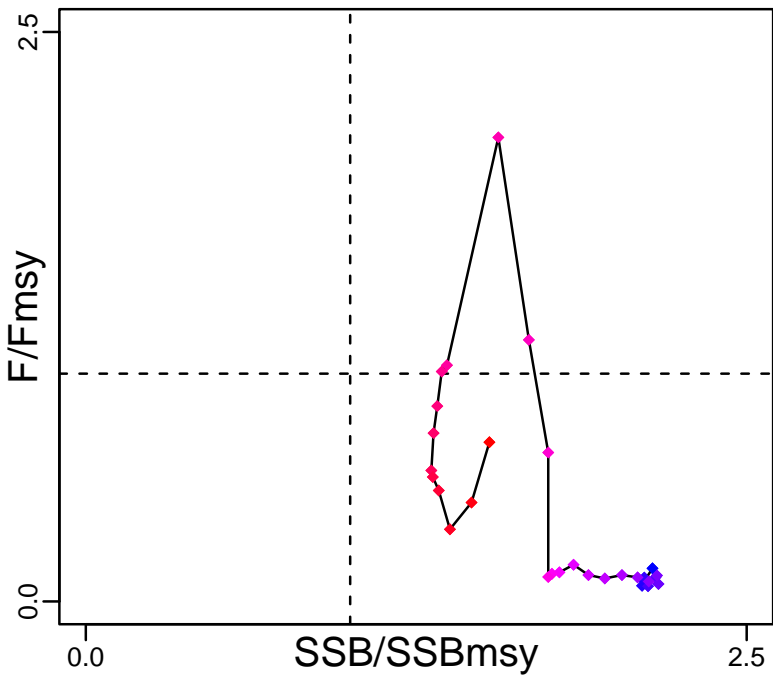
Metadata	
Scientific Name	Atheresthes evermanni
Current Assess ID	AFSC-KMFLOUNBSAI-1991-2020-SISIMP2021-2
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2017, 2018, 2015, 2018,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

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

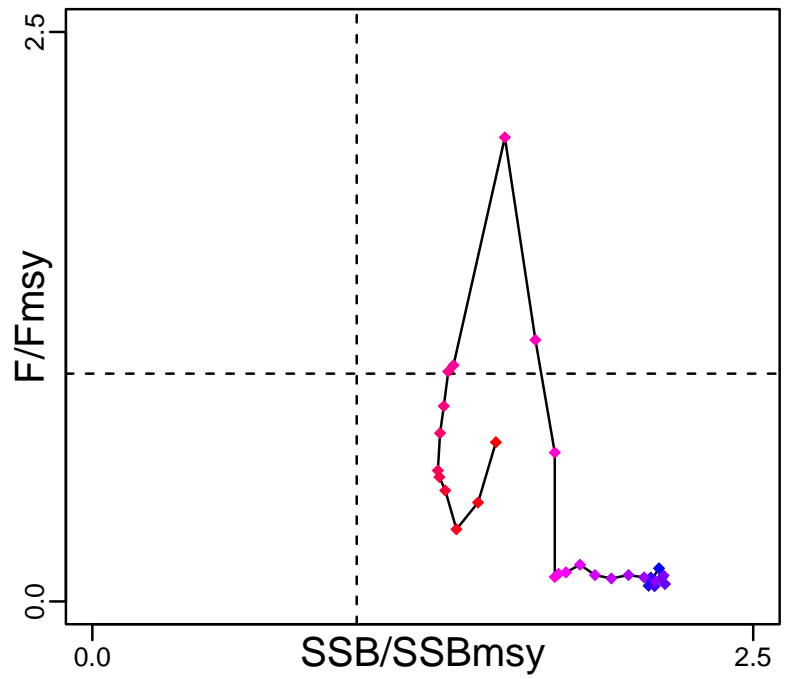
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	168,000	Both	2+
SSB	SSB-MT	2020	54,200	-	-
TN	-	-	-	-	-
R	R-E00	2020	11,700,000	-	2
F	F-1/yr	2020	0.076	-	-
ER	ER-ratio	2017	0.032	-	-
TC	TC-MT	2020	4490		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.527		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

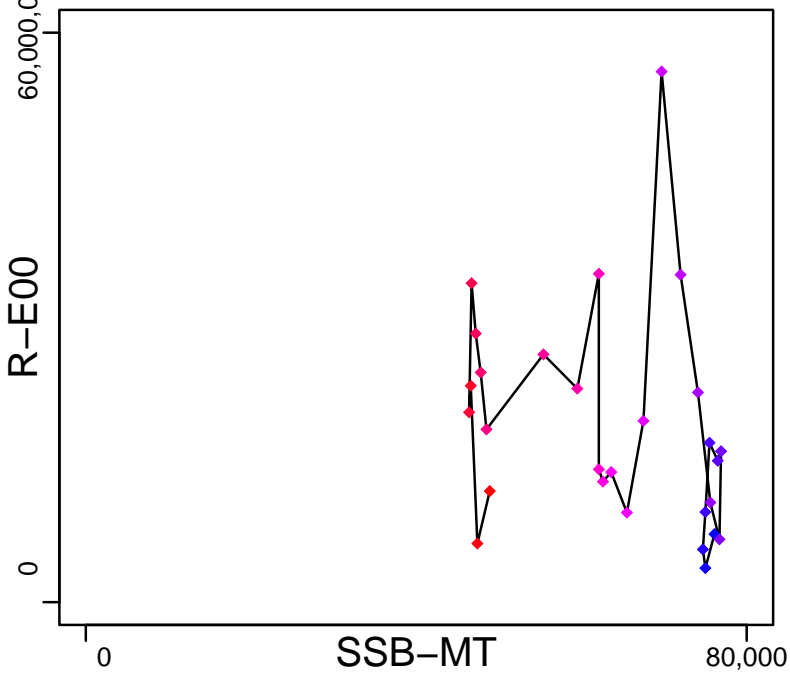
Kobe MSYpref (1991–2020–SISIMP2021–2)



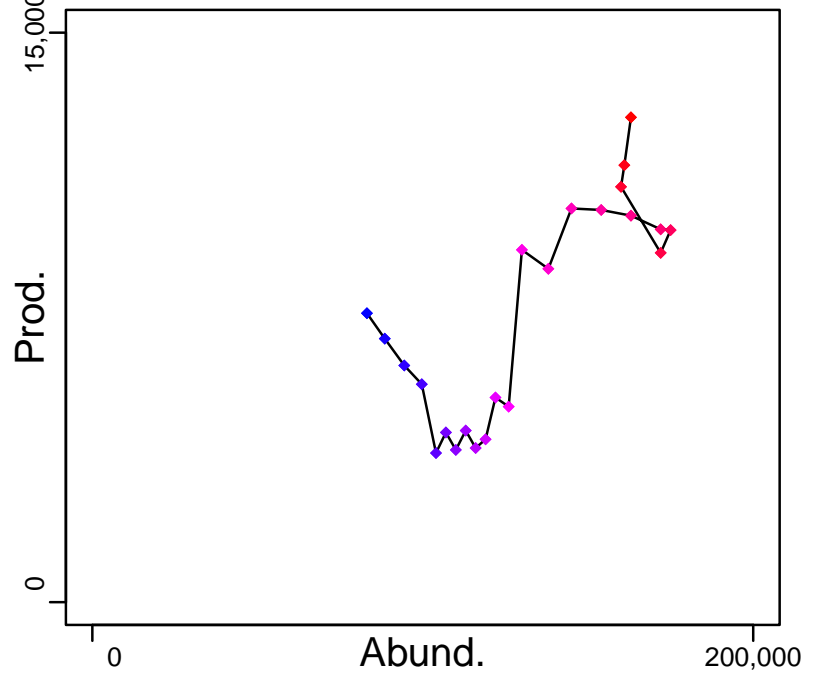
Kobe MGTpref (1991–2020–SISIMP2021–2)



Spawner Recruit (1991–2020–SISIMP2021–2)



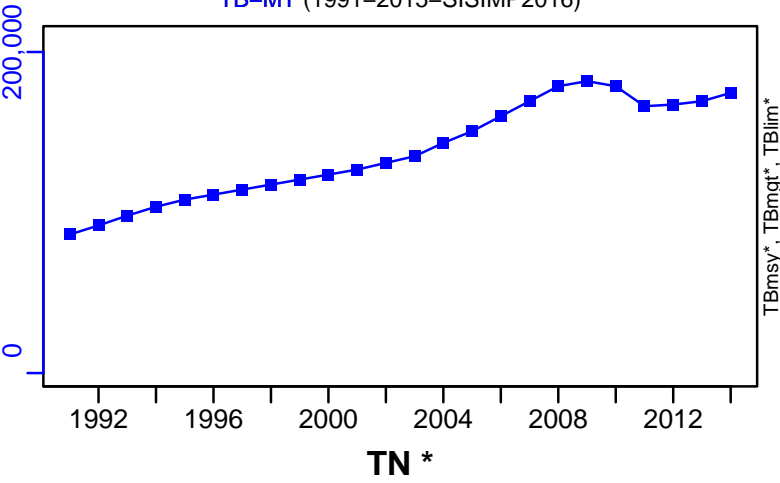
Production (1991–2015–SISIMP2016)



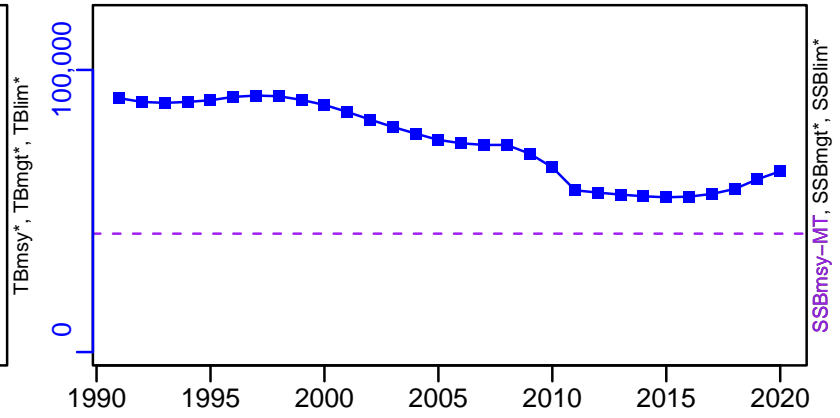
◆ Start Year ◆ End Year * No Data

Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

TB-MT (1991–2015–SISIMP2016)



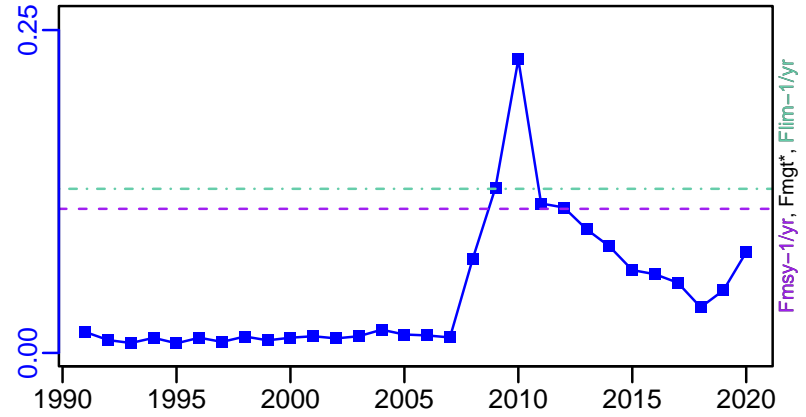
SSB-MT (1991–2020–SISIMP2021–2)



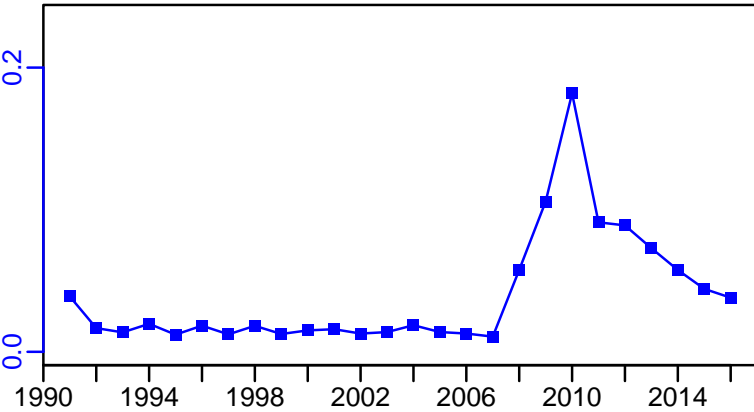
TN *



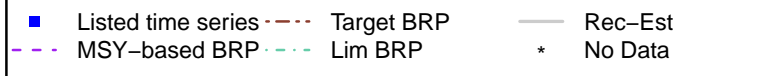
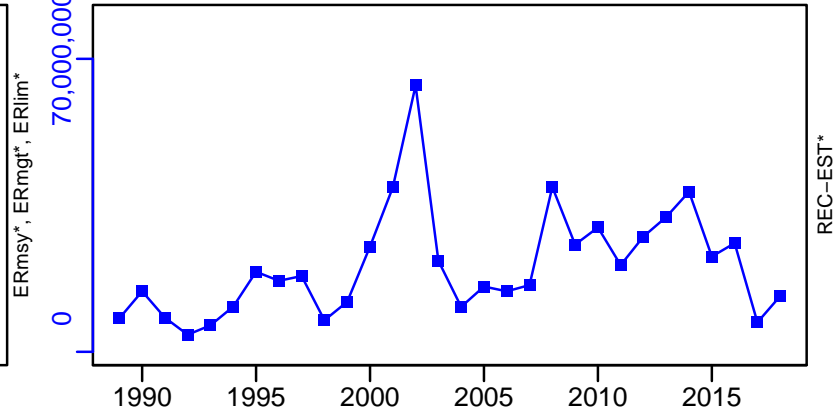
F-1/yr (1991–2020–SISIMP2021–2)



ER-ratio (1990–2017–SISIMP2021)



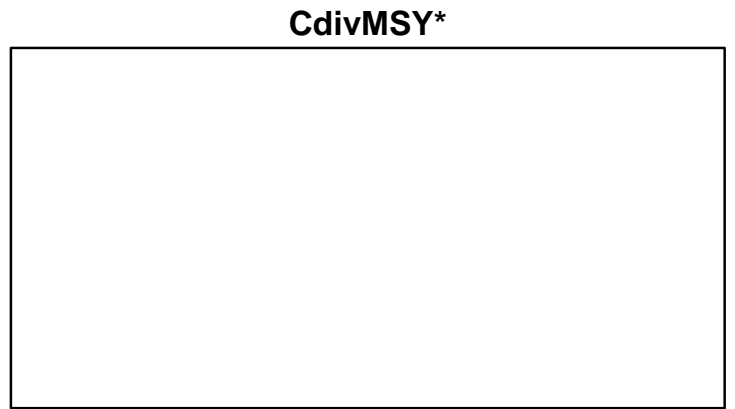
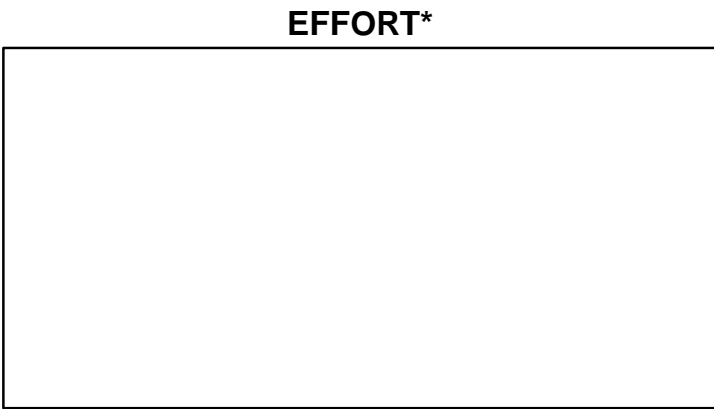
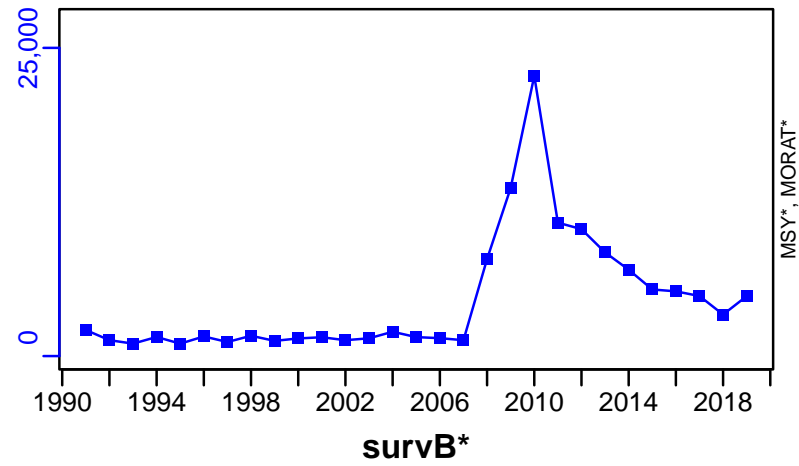
R-E00 (1991–2020–SISIMP2021–2)



Kamchatka flounder Bering Sea and Aleutian Islands [KMFLOUNBSAI]

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

TAC*, Cpair*, Cadv*



Lemon sole ICES 3a-4-7d [LSOLEIIIIa-IV-VIIId]

Metadata	
Scientific Name	Microstomus kitt
Current Assess ID	WGNSSK-LSOLEIIIIa-IV-VIIId-1968-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2018, 2019, 2020, 2015

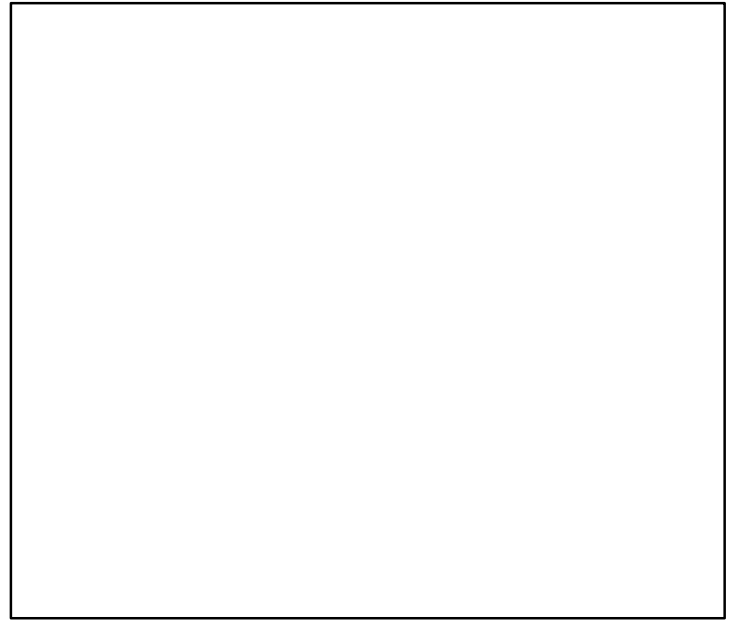
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2019	1.01	-	-
TN	-	-	-	-	-
R	R-index	2020	2.26	-	1
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	3040		
TL	TL-MT	2020	2650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2018	0.193		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

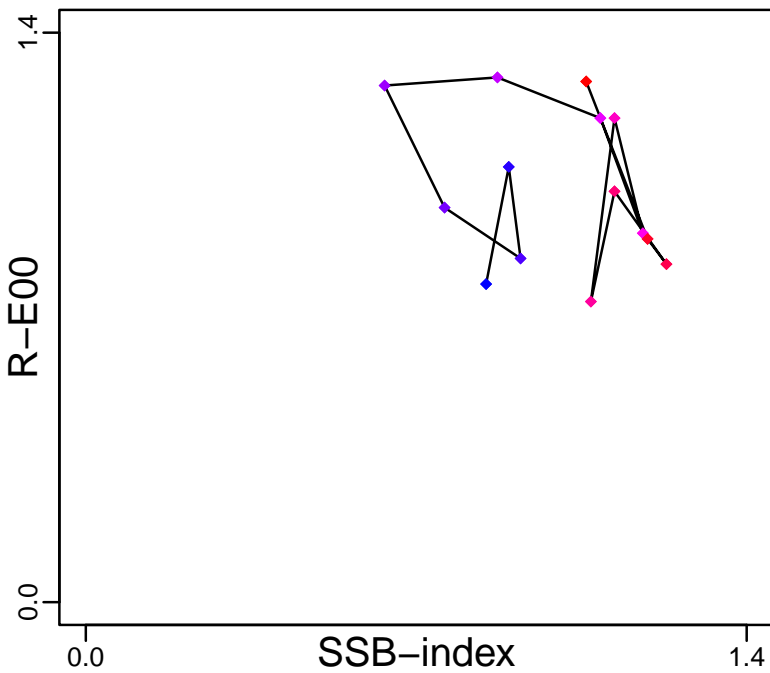
Kobe MSY*



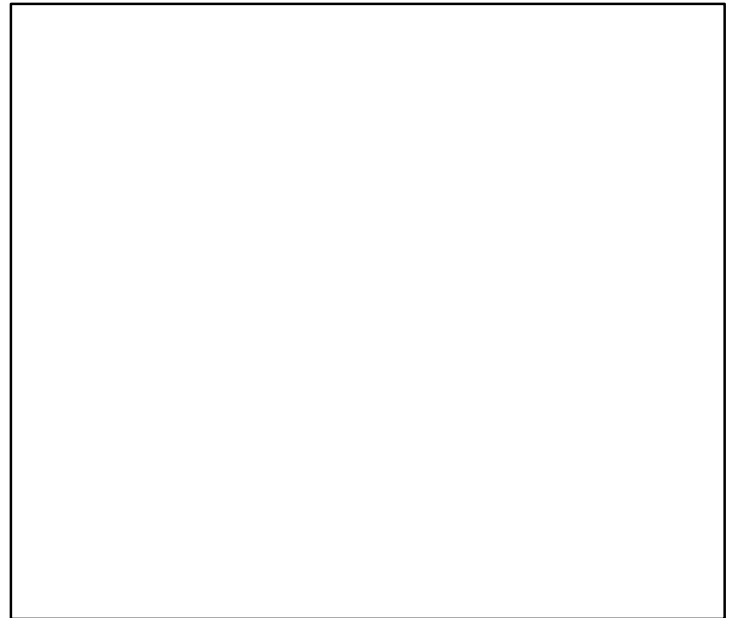
Kobe MGT*



Spawner Recruit (1968–2019–ICESIMP2021–2)



Production*



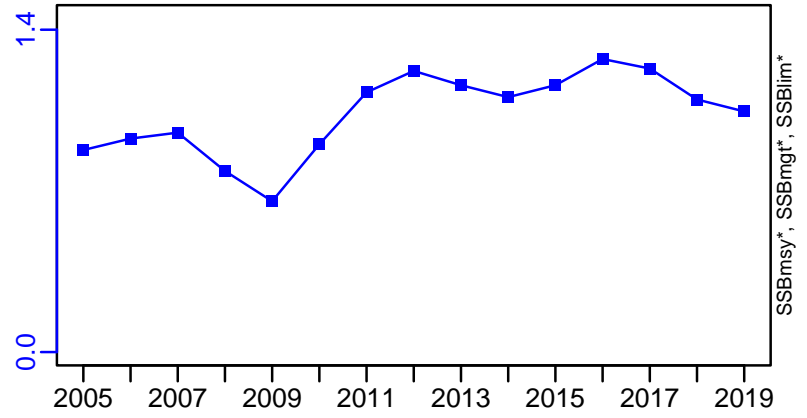
◆ Start Year ◆ End Year * No Data

Lemon sole ICES 3a–4–7d [LSOLEIIIa–IV–VIIId]

TB*



SSB-index (1968–2019–ICESIMP2021–2)



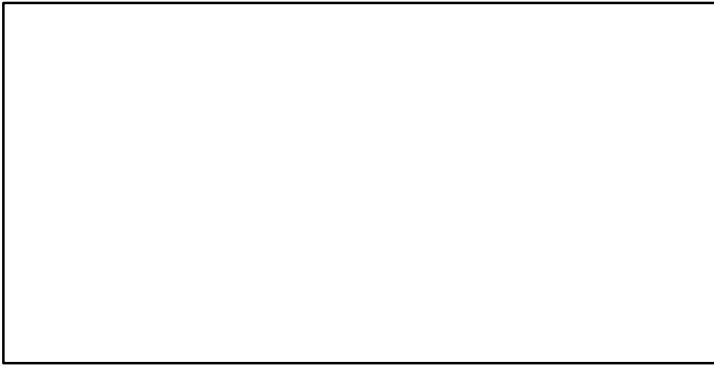
TN *



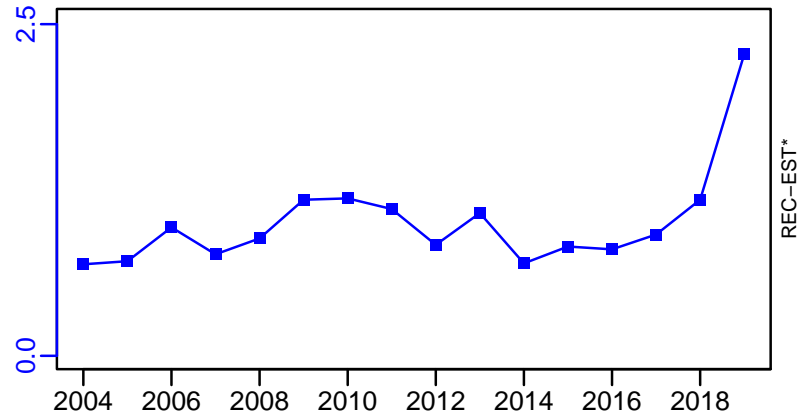
F*



ER*

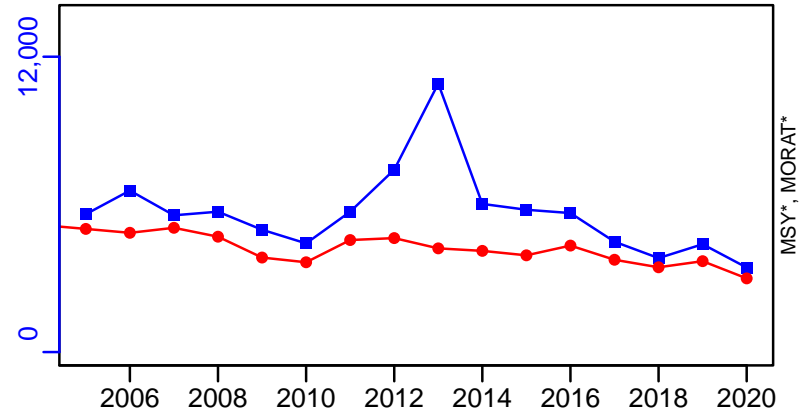


R-index (1968–2020–ICESIMP2021–2)



Lemon sole ICES 3a–4–7d [LSOLEIIIa–IV–VIIId]

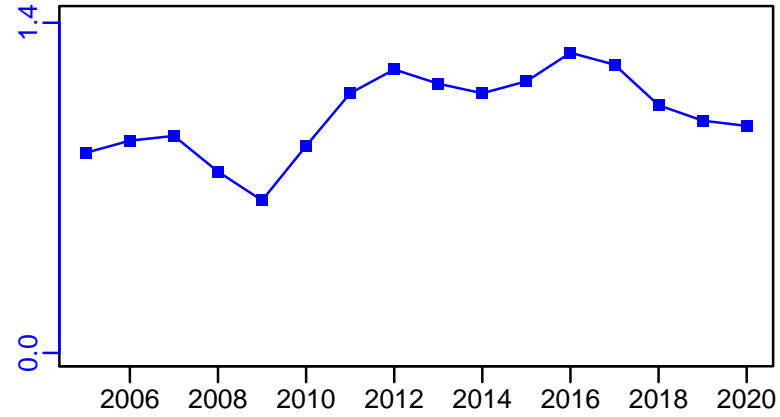
TC–MT, TL–MT, RecC* (1968–2020–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



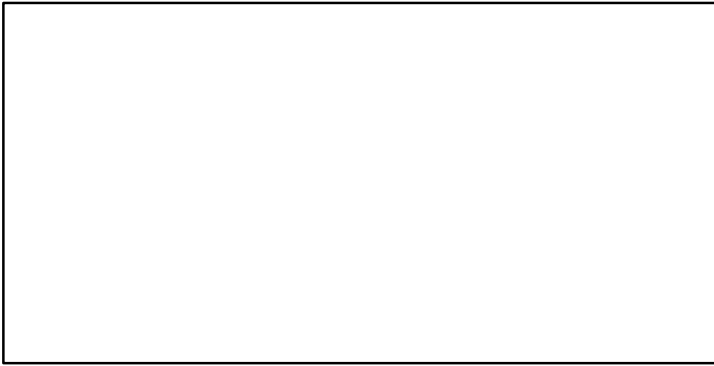
survB–index (1968–2020–ICESIMP2021–2)



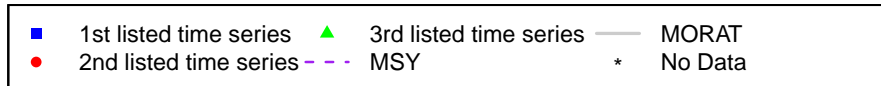
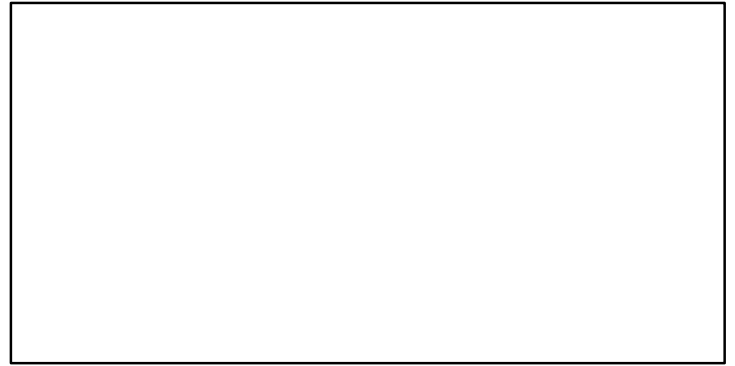
CPUE*



EFFORT*



CdivMSY*



Megrim ICES 8c-9a [MEG8c9a]

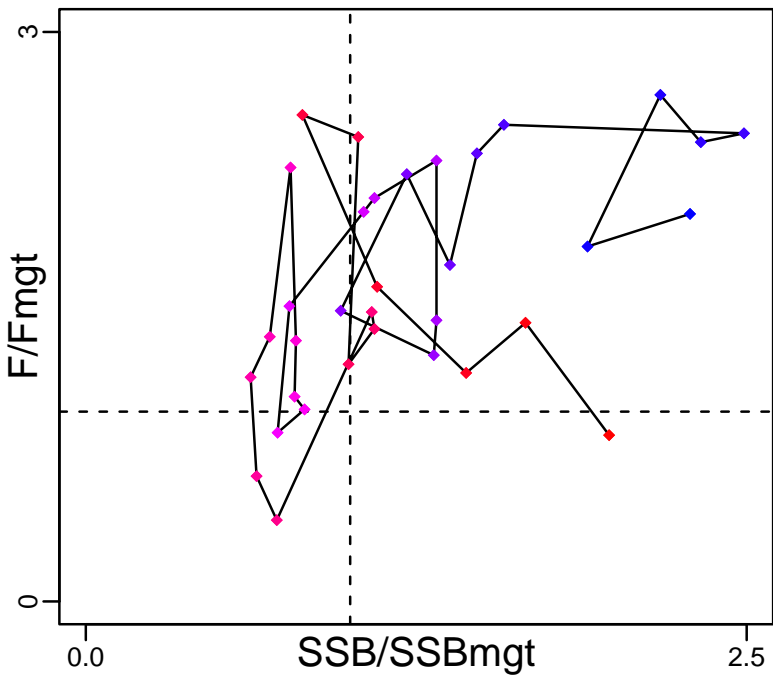
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEG8c9a-1986-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.191
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	980
Fmgt	Fmgt-1/yr	2021	0.191
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	700
Flim	Flim-1/yr	2021	0.45
ERlim	-	-	-

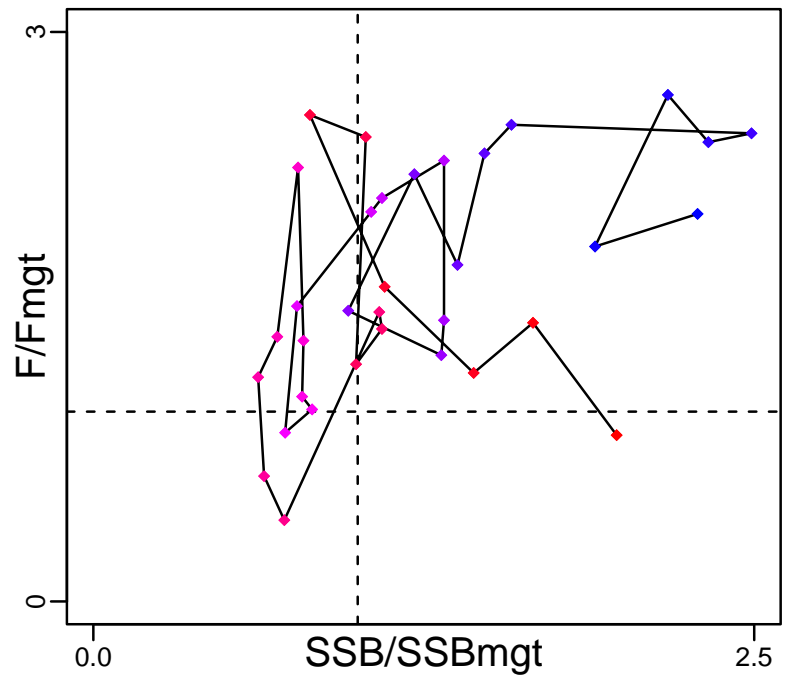
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2290	-	-
SSB	SSB-MT	2021	2780	-	-
TN	-	-	-	-	-
R	R-E00	2021	3,630,000	-	1
F	F-1/yr	2021	0.116	-	-
ER	ER-calc-ratio	2019	0.154	-	-
TC	TC-MT	2020	289		
TL	TL-MT	2021	320		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.607		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	2.48		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.607		
ER/ERmgt	-	-	-		

Megrim ICES 8c-9a [MEG8c9a]

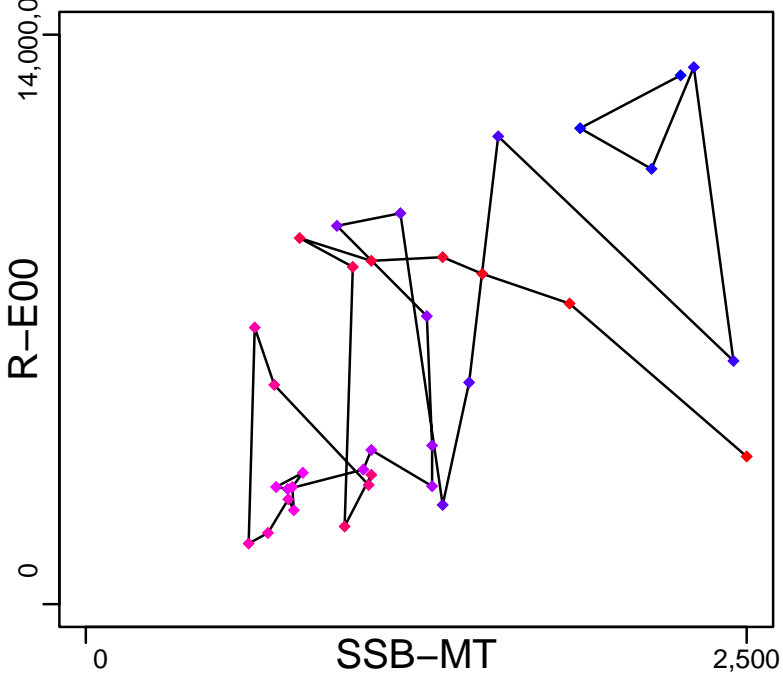
Kobe MSYpref (1986-2020-ICESIMP2021-2)



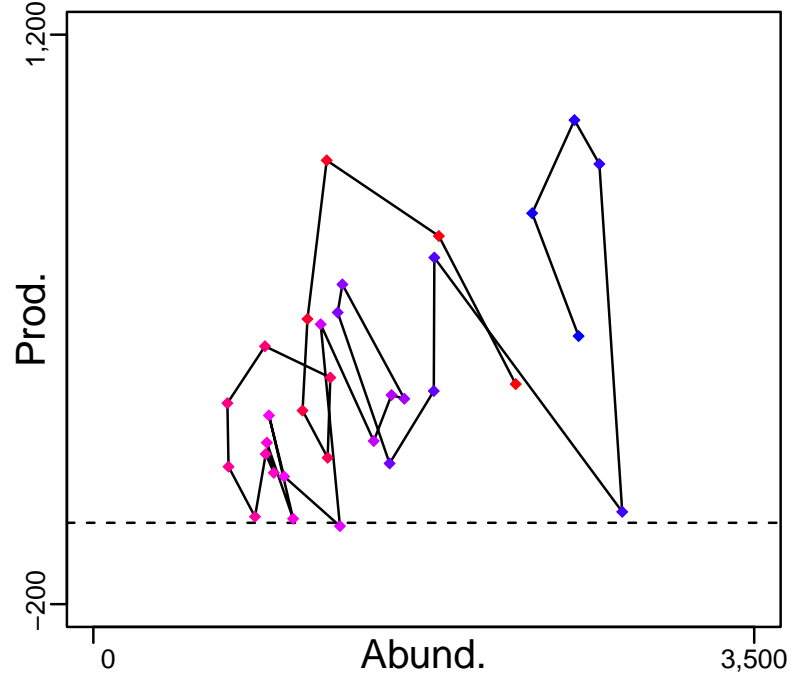
Kobe MGTpref (1986-2020-ICESIMP2021-2)



Spawner Recruit (1986-2021-ICESIMP2021-2)



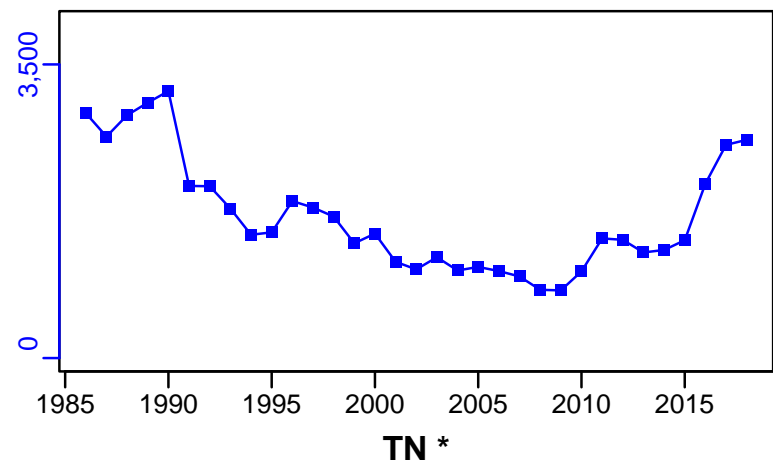
Production (1985-2019-ICESIMP2021)



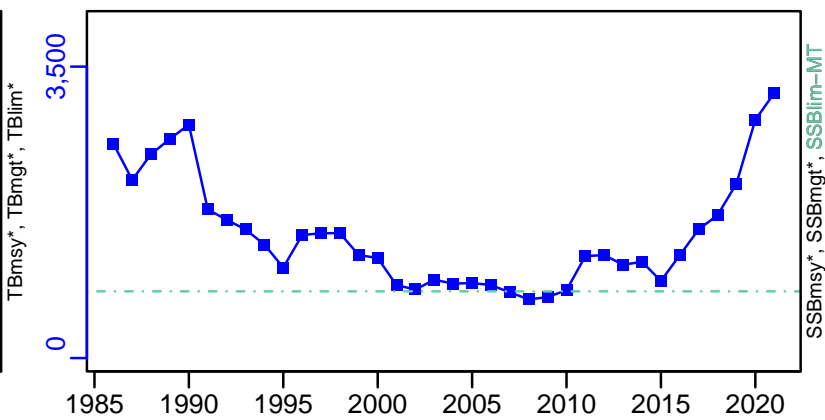
◆ Start Year ◆ End Year * No Data

Megrim ICES 8c-9a [MEG8c9a]

TB-MT (1985-2019-ICESIMP2021)



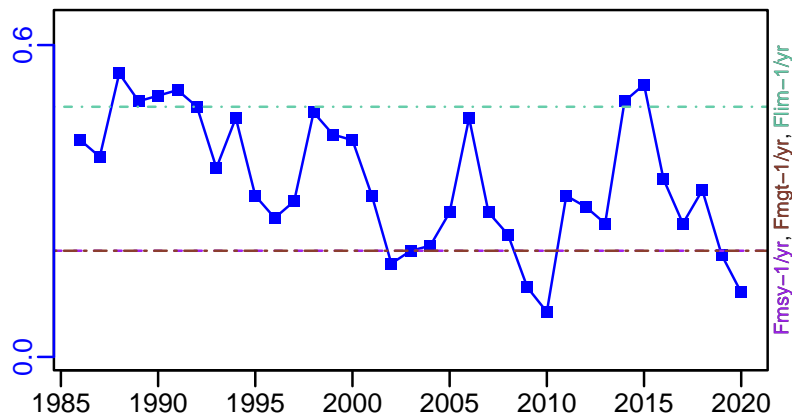
SSB-MT (1986-2021-ICESIMP2021-2)



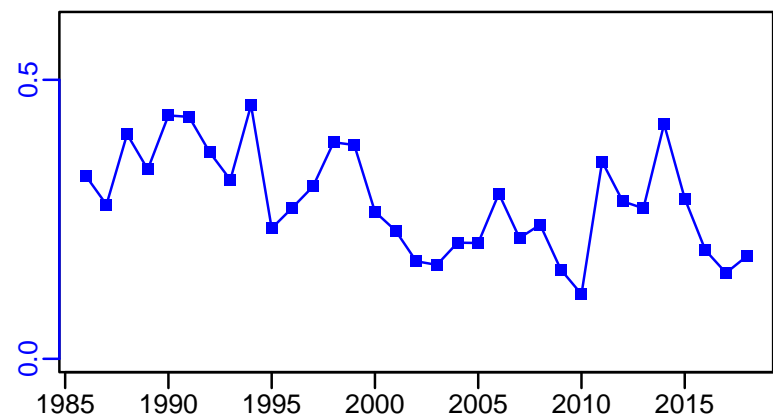
TN *



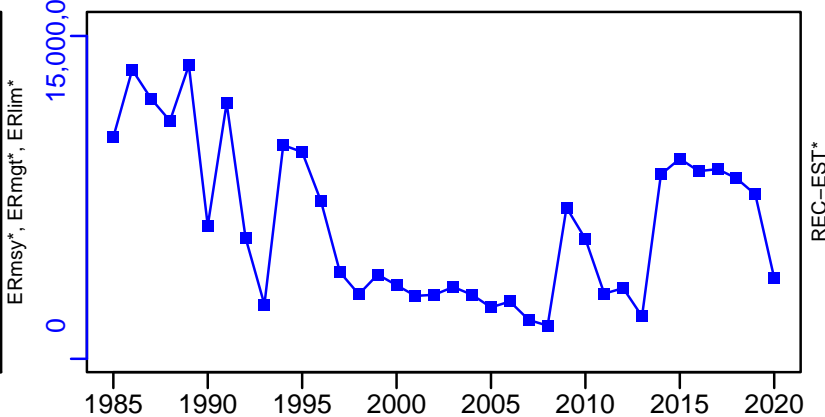
F-1/yr (1986-2021-ICESIMP2021-2)



ER-calc-ratio (1985-2019-ICESIMP2021)

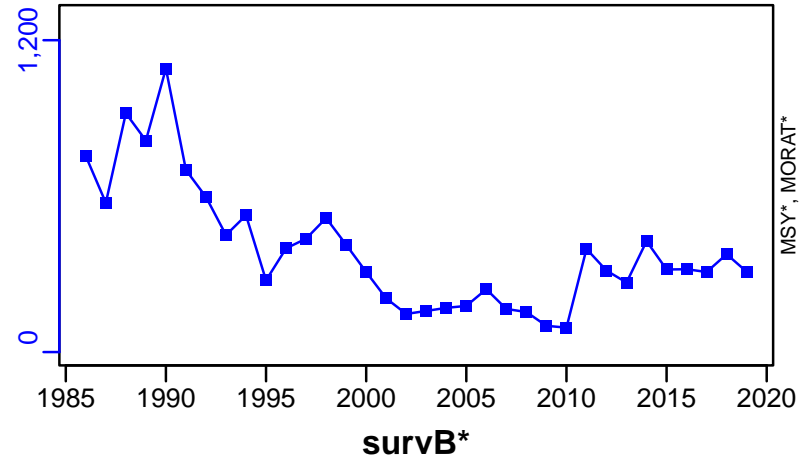


R-E00 (1986-2021-ICESIMP2021-2)

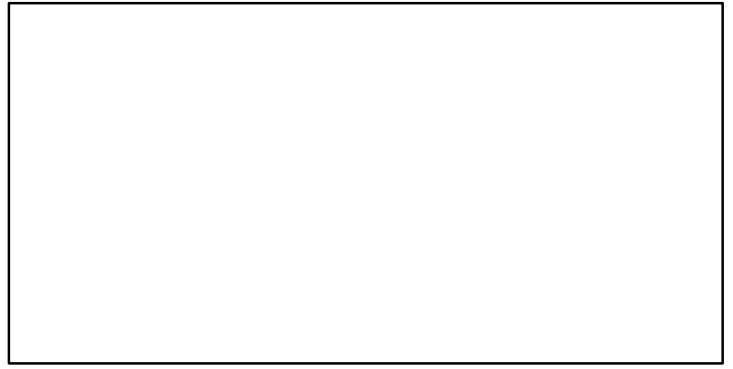


Megrim ICES 8c-9a [MEG8c9a]

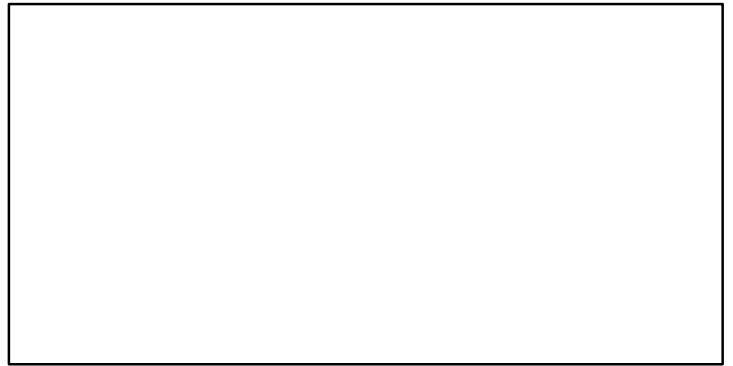
TC-MT, TL*, RecC* (1986-2020-ICESIMP2021-2)



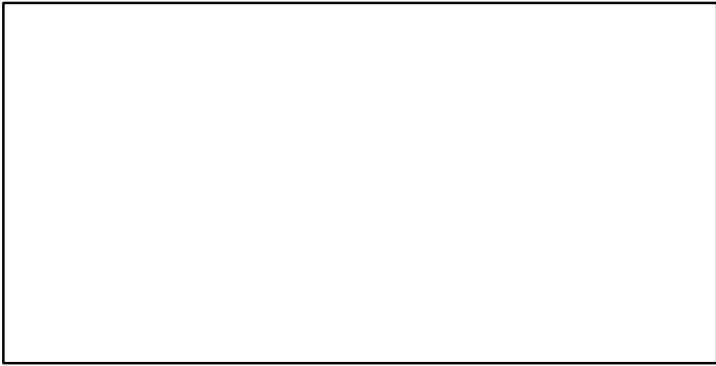
TAC*, Cpair*, Cadv*



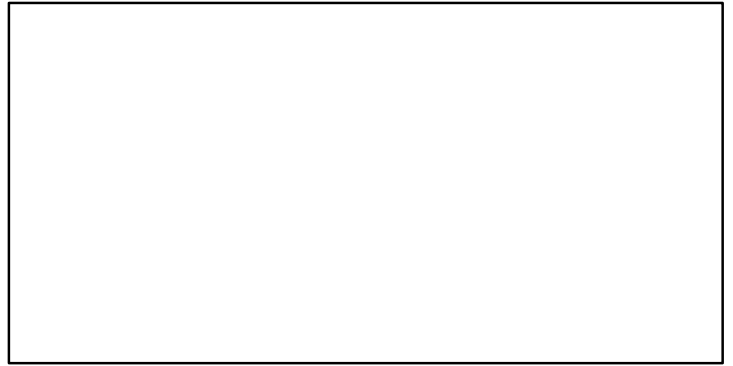
CPUE*



EFFORT*



CdivMSY*



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

Megrim spp ICES 4a-6a [MEGSPPIVa-VIa]

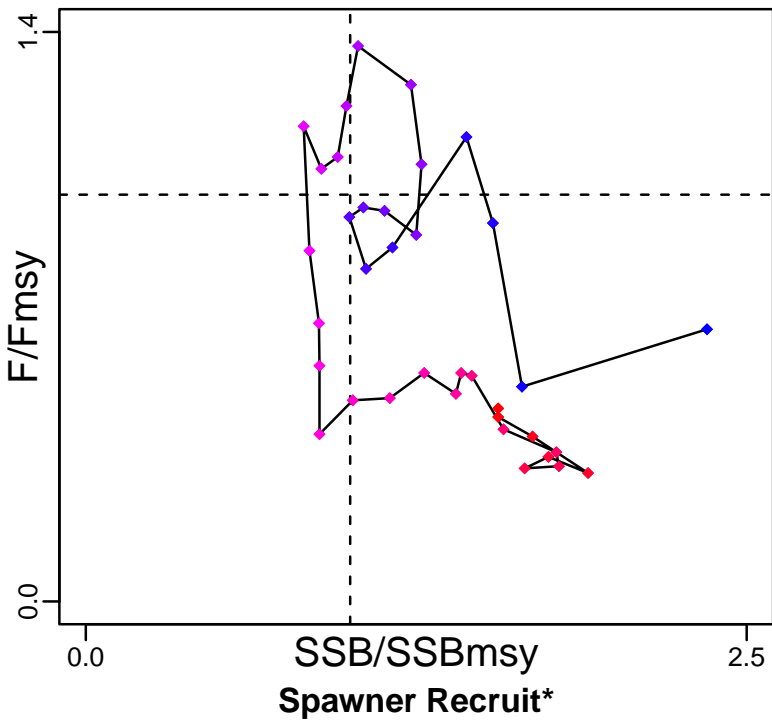
Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPIVa-VIa-1985-2021-ICESIMP2021-2
Area	ICES 4a-6a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2015, 2016, 2017, 2018, 2020, 2021

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

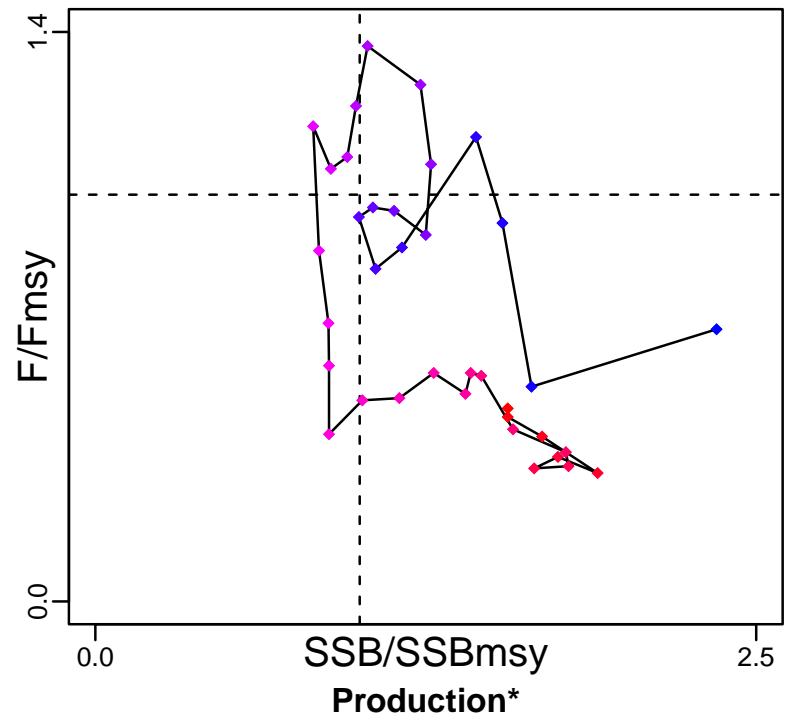
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	3530		
TL	TL-MT	2021	3320		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.47		
F/Fmsy	FdivFmsy-dimensionless	2021	0.475		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim spp ICES 4a-6a [MEGSPPIVa-VIa]

Kobe MSYpref (1985-2021-ICESIMP2021-2)



Kobe MGTpref (1985-2021-ICESIMP2021-2)



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

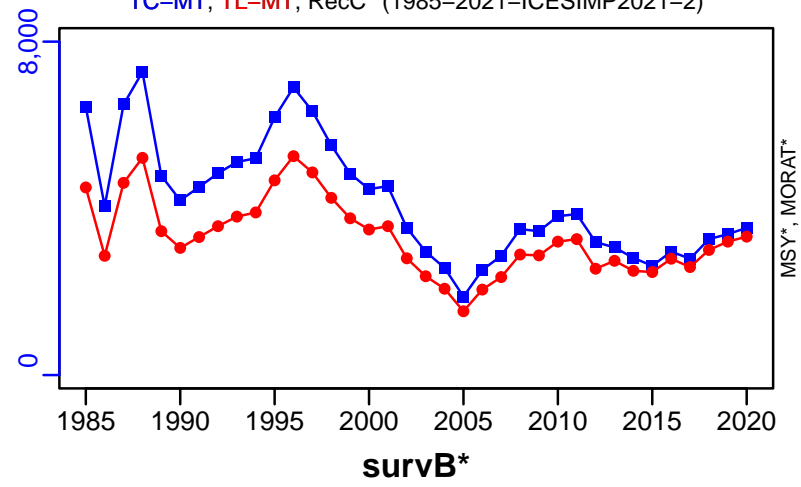


Recruits*



Megrim spp ICES 4a-6a [MEGSPPIVa-VIa]

TC-MT, TL-MT, RecC* (1985-2021-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Megrim spp Rockall Bank [MEGSPPVlb]

Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPVlb-1991-2019-ICESIMP2021-2
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2017, 2019, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	4510	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	763		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2019	0.932		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



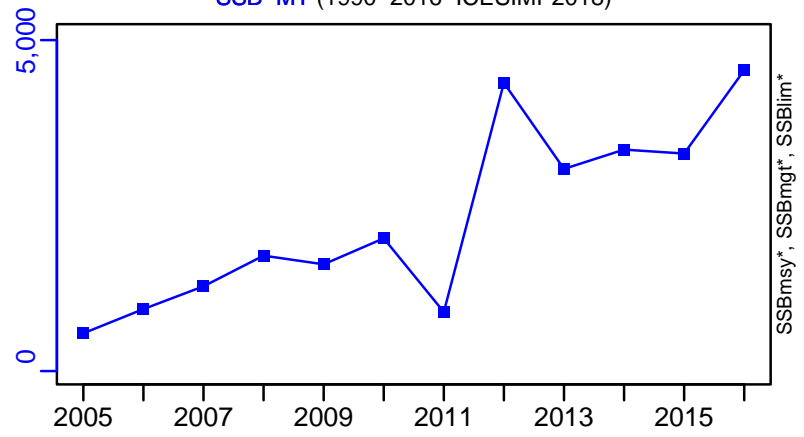
◆ Start Year ◆ End Year * No Data

Megrim spp Rockall Bank [MEGSPPVlb]

TB*



SSB-MT (1990–2016–ICESIMP2018)



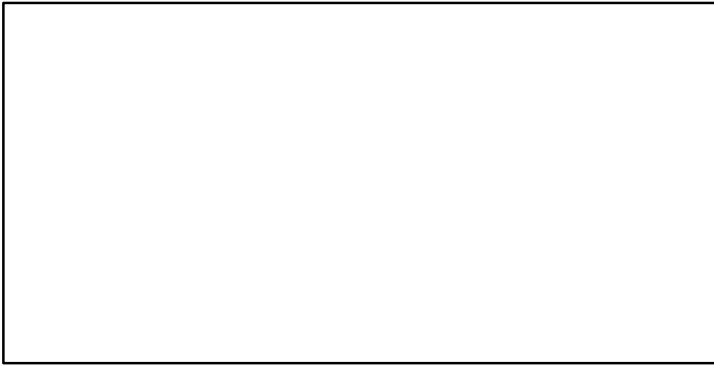
TN *



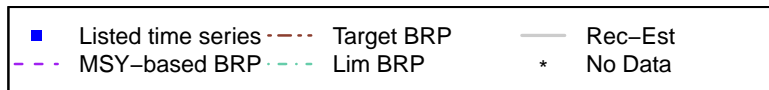
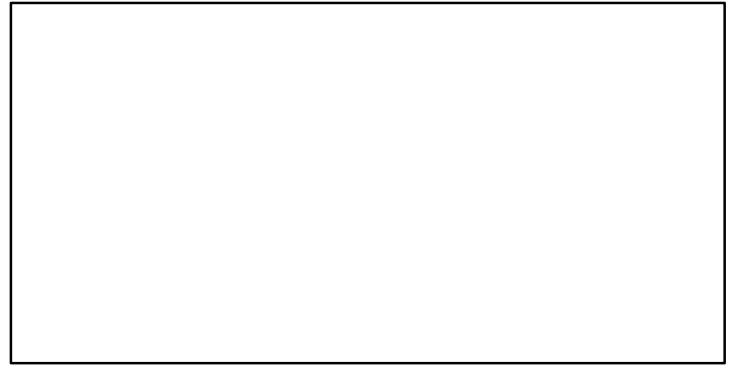
F*



ER*

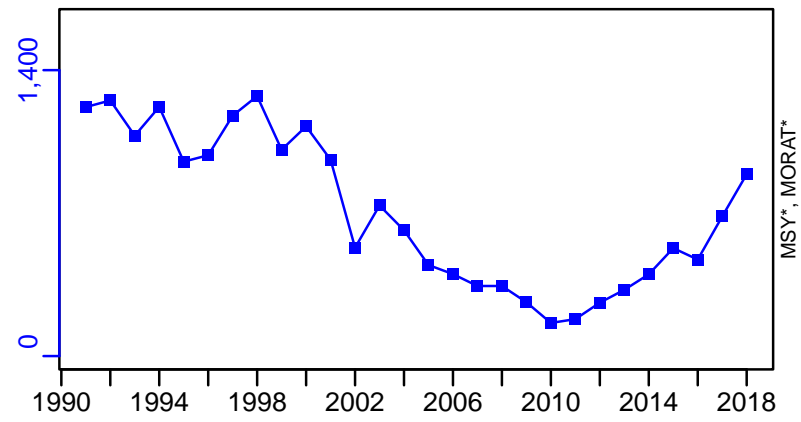


Recruits*



Megrim spp Rockall Bank [MEGSPPVlb]

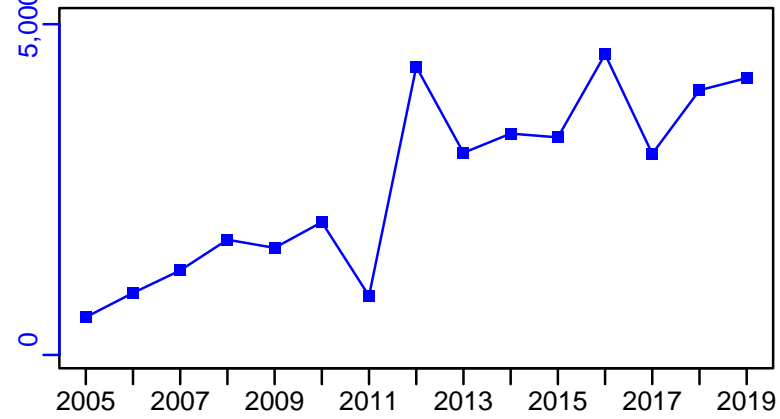
TL-MT, TC*, RecC* (1991–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-MT (1991–2019–ICESIMP2021)



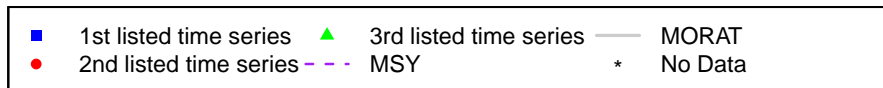
CPUE*



EFFORT*



CdivMSY*



Megrim ICES 7-8abd [MEGVII-VIIIabd]

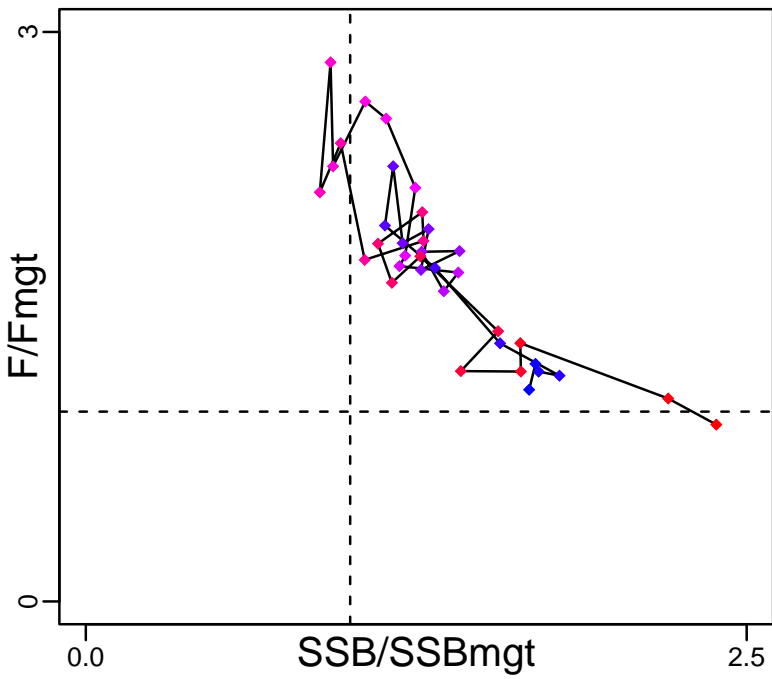
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEGVII-VIIIabd-1984-2021-ICESIMP2021-2
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.191
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	41,800
Fmgt	Fmgt-1/yr	2021	0.191
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	37,100
Flim	Flim-1/yr	2021	0.53
ERlim	-	-	-

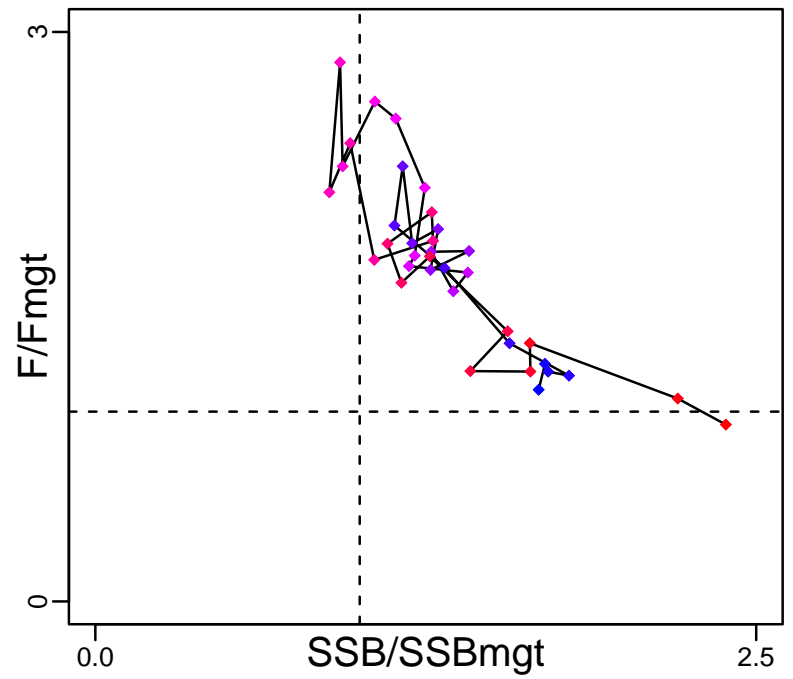
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	150,653	-	-
SSB	SSB-MT	2021	126,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	222,000	-	1
F	F-1/yr	2021	0.137	-	-
ER	ER-calc-ratio	2019	0.094	-	-
TC	TC-MT	2020	13,200		
TL	TL-MT	2021	11,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.717		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	2.584		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.717		
ER/ERmgt	-	-	-		

Megrim ICES 7–8abd [MEGVII–VIIIabd]

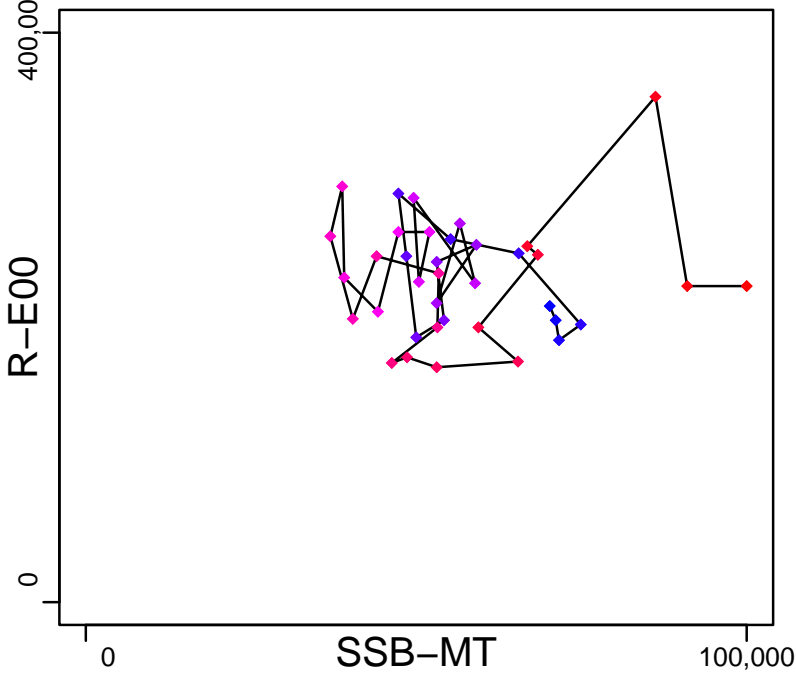
Kobe MSYpref (1984–2020–ICESIMP2021–2)



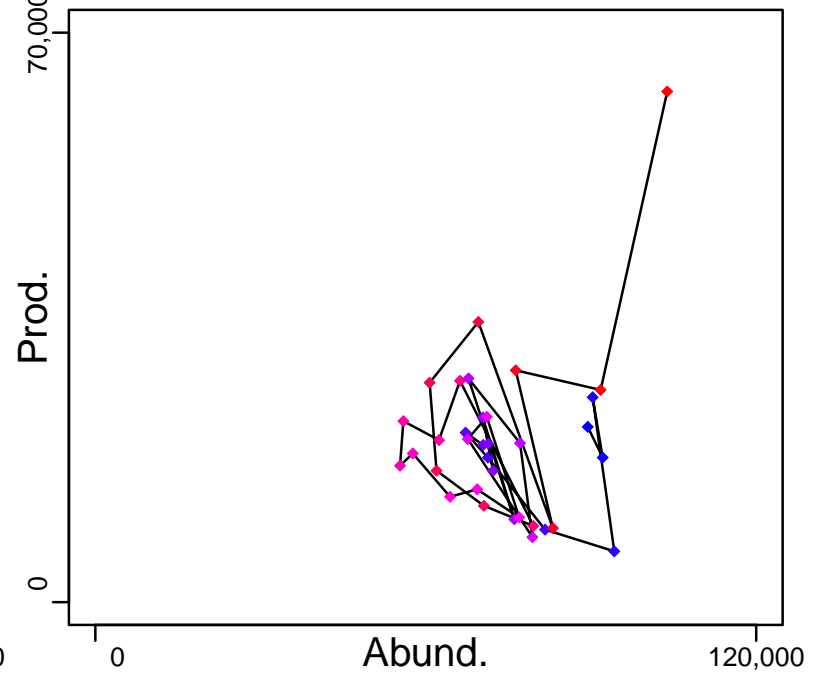
Kobe MGTpref (1984–2020–ICESIMP2021–2)



Spawner Recruit (1984–2021–ICESIMP2021–2)



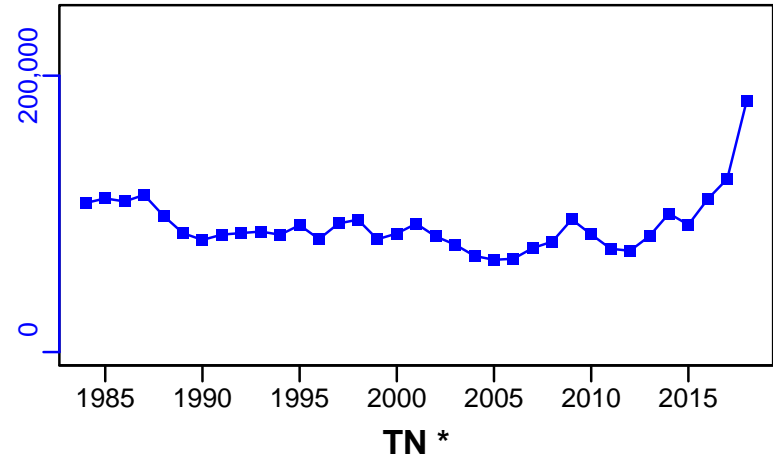
Production (1983–2019–ICESIMP2021)



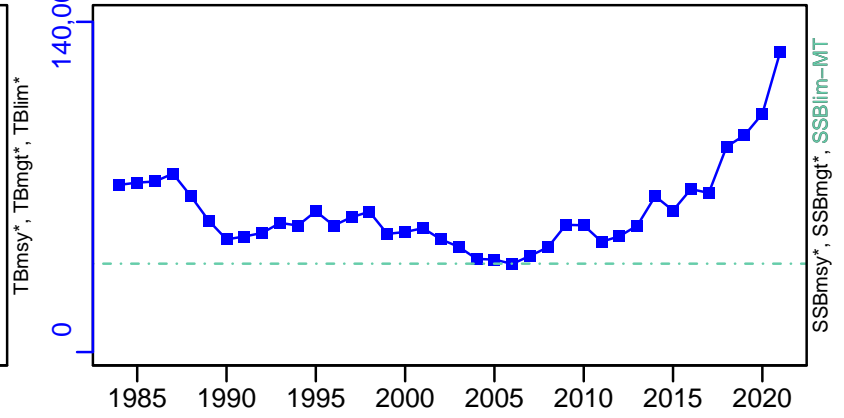
◆ Start Year ◆ End Year * No Data

Megrim ICES 7–8abd [MEGVII–VIIIabd]

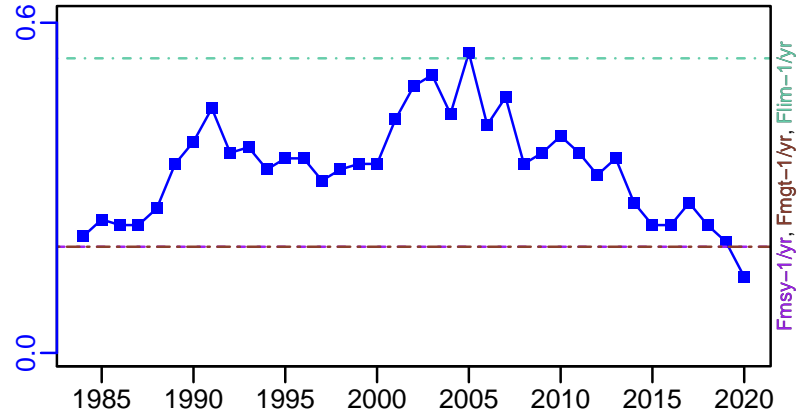
TB–MT (1983–2019–ICESIMP2021)



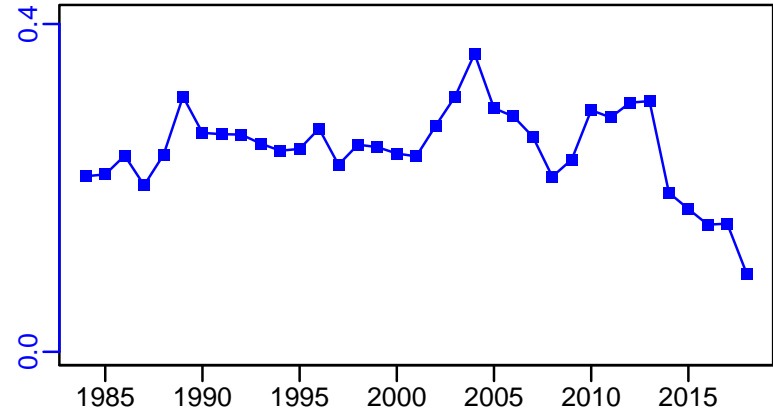
SSB–MT (1984–2021–ICESIMP2021–2)



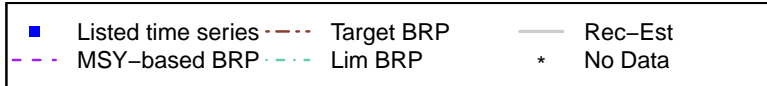
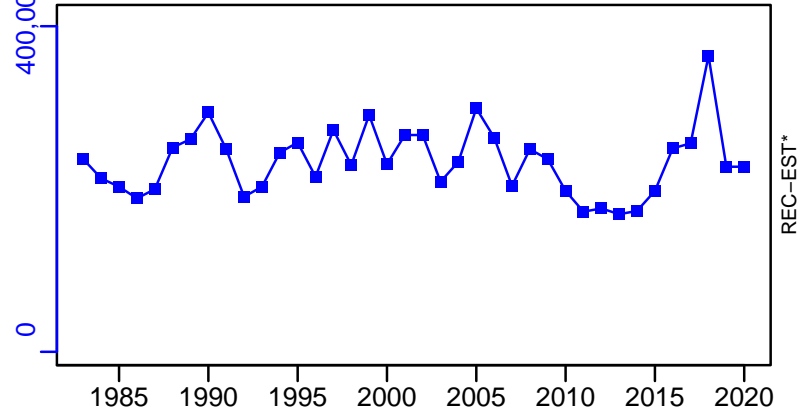
F–1/yr (1984–2021–ICESIMP2021–2)



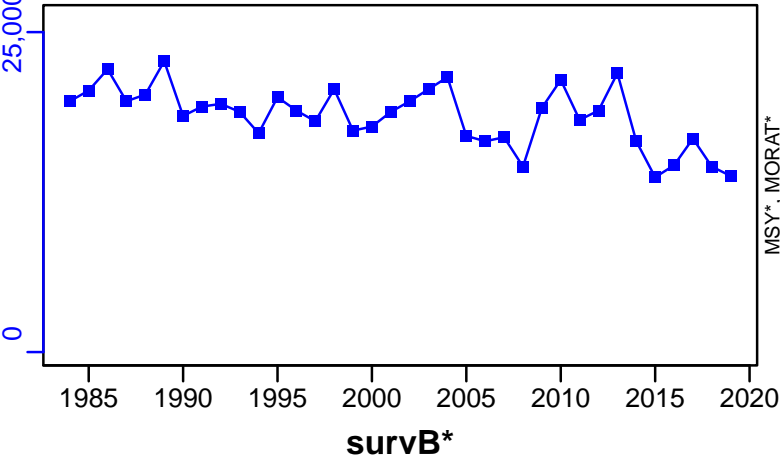
ER–calc–ratio (1983–2019–ICESIMP2021)



R–E00 (1984–2021–ICESIMP2021–2)



TC–MT, TL*, RecC* (1984–2020–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

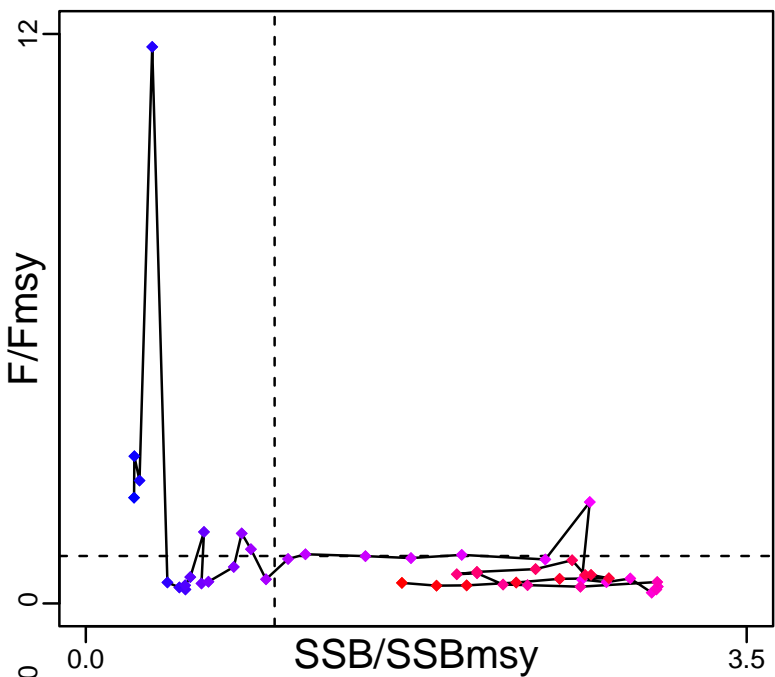
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEEBSAI-1974-2020-SISIMP2022
Area	Eastern Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2016, 2018, 2020,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

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

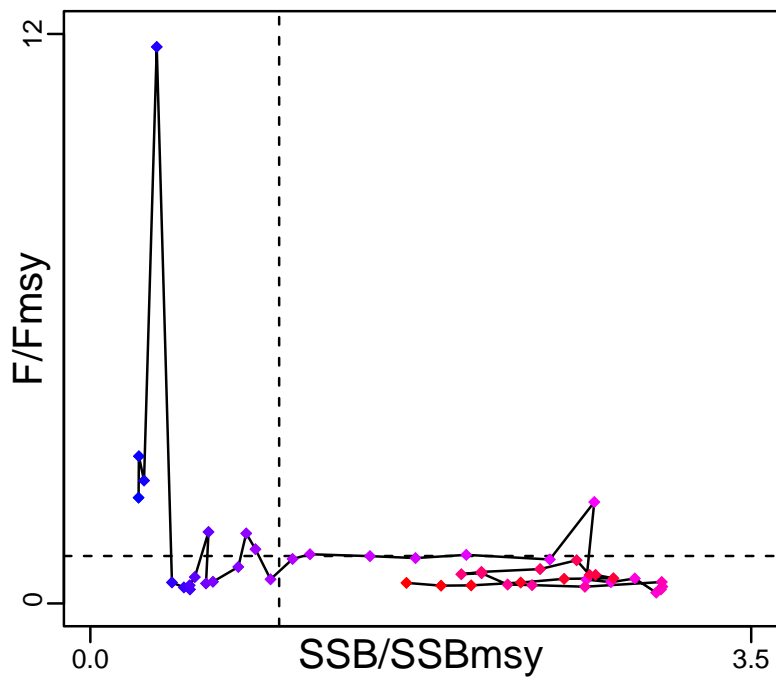
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,270,000	-	2+
SSB	SSB-MT	2020	314,380	Females	-
TN	-	-	-	-	-
R	R-E00	2020	471,095,001	-	1
F	F-1/yr	2020	0.068	-	-
ER	ER-calc-ratio	2015	0.038	-	-
TC	TC-MT	2020	25,514		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.674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

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

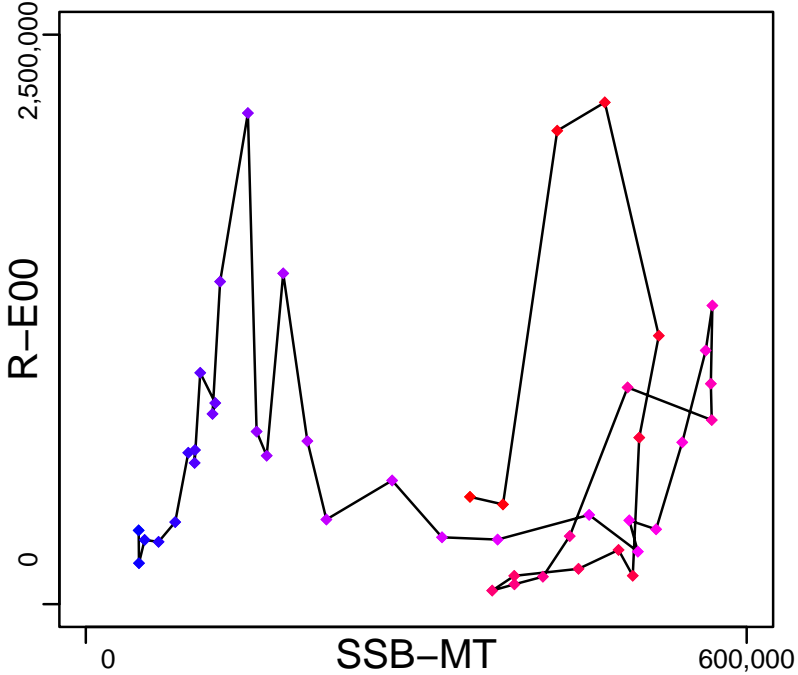
Kobe MSYpref (1974–2020–SISIMP2022)



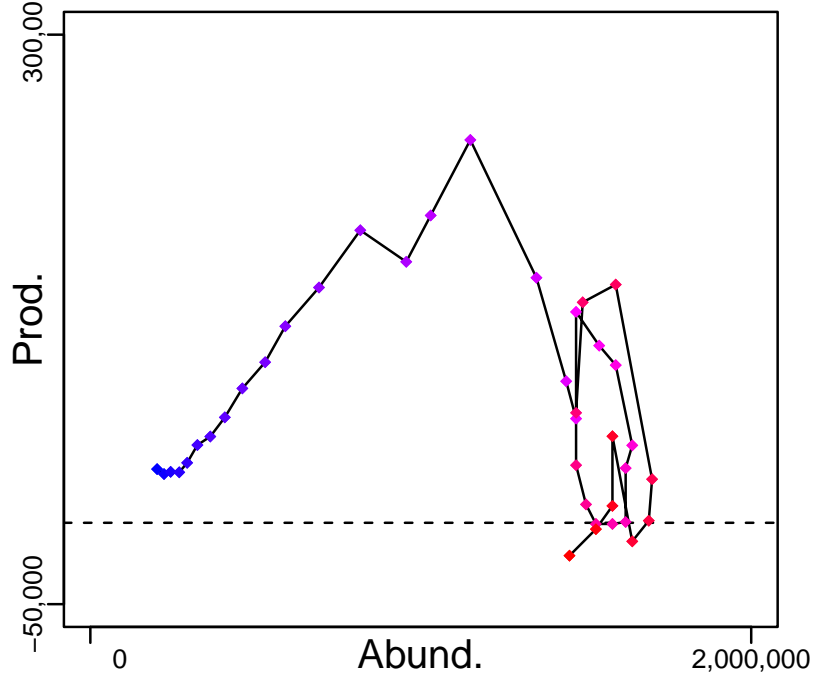
Kobe MGTpref (1974–2020–SISIMP2022)



Spawner Recruit (1974–2020–SISIMP2022)



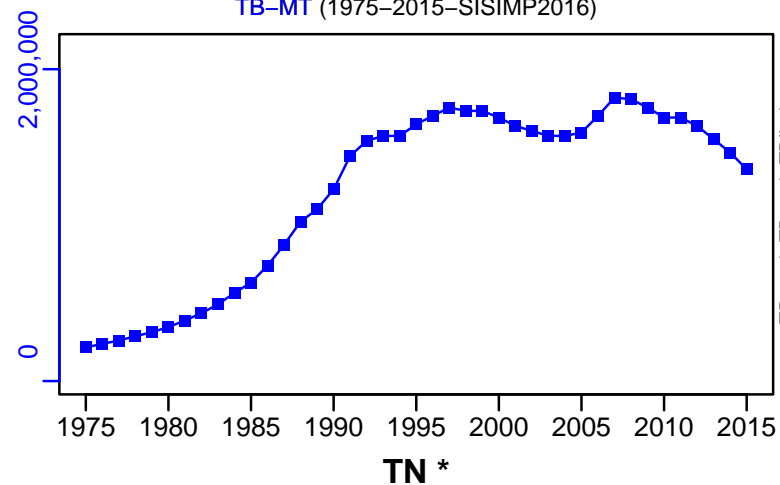
Production (1975–2015–SISIMP2016)



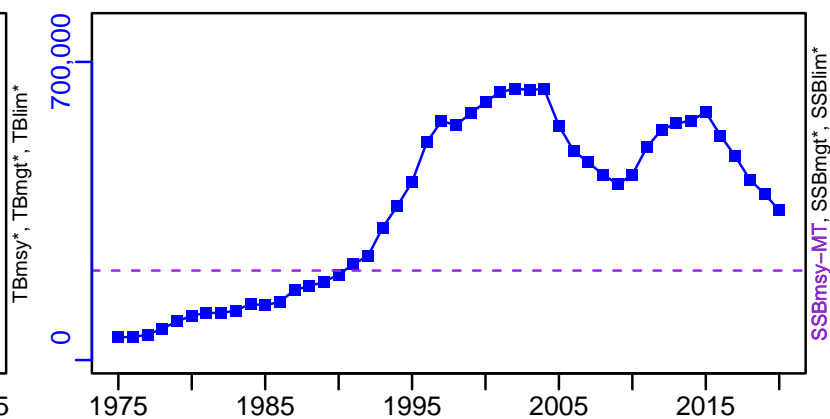
◆ Start Year ◆ End Year * No Data

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

TB-MT (1975–2015–SISIMP2016)



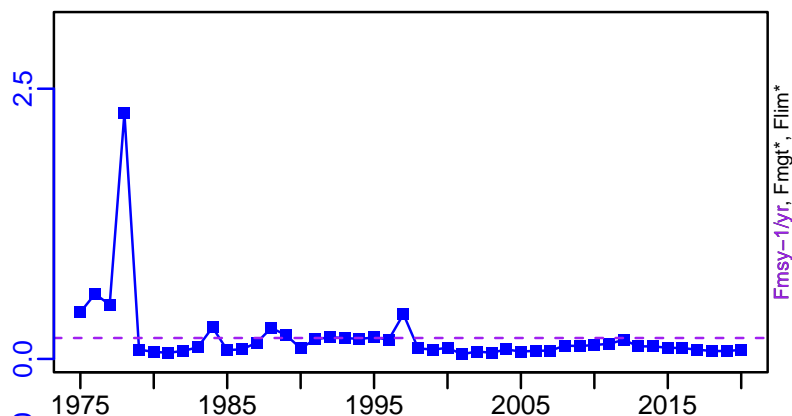
SSB-MT (1974–2020–SISIMP2022)



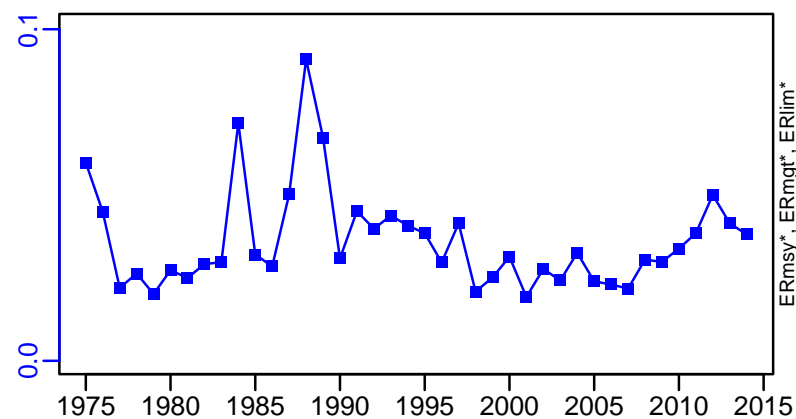
TN *



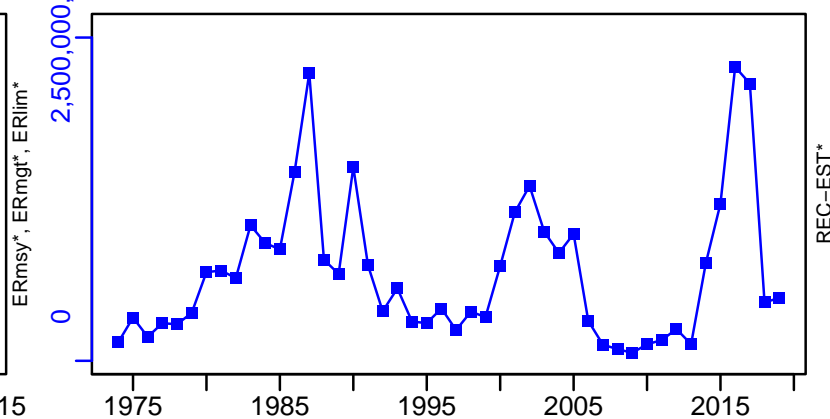
F-1/yr (1974–2020–SISIMP2022)



ER-calc-ratio (1975–2015–SISIMP2016)



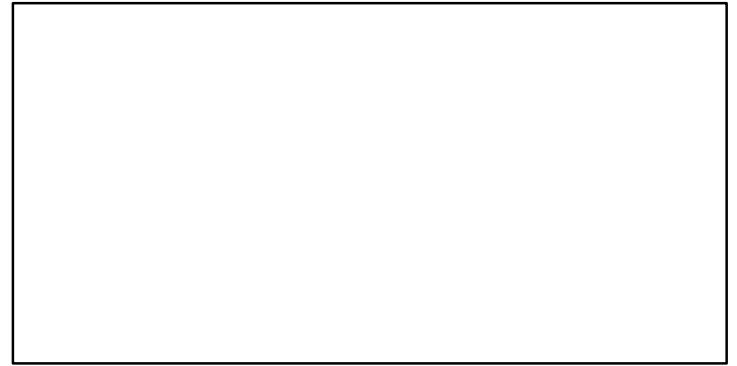
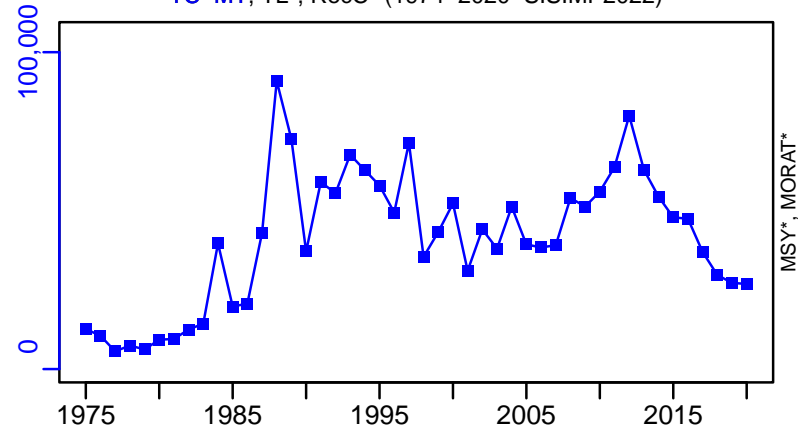
R-E00 (1974–2020–SISIMP2022)



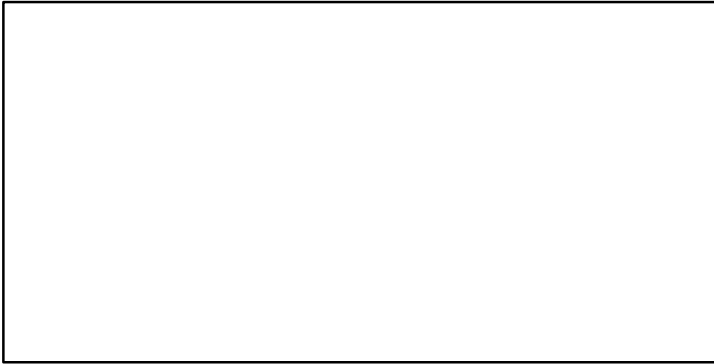
Northern rock sole Eastern Bering Sea and Aleutian Islands [NRSOLEEBSAI]

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

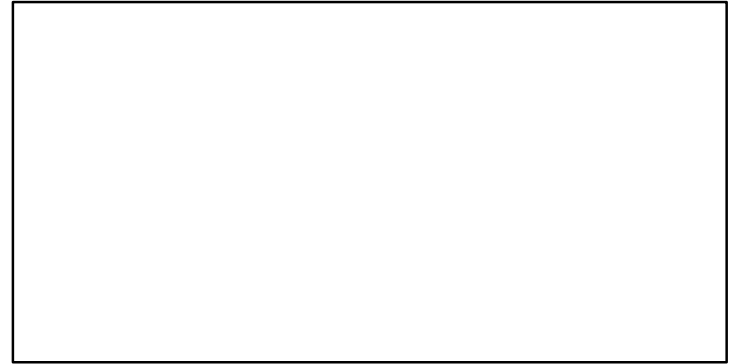
TAC*, Cpair*, Cadv*



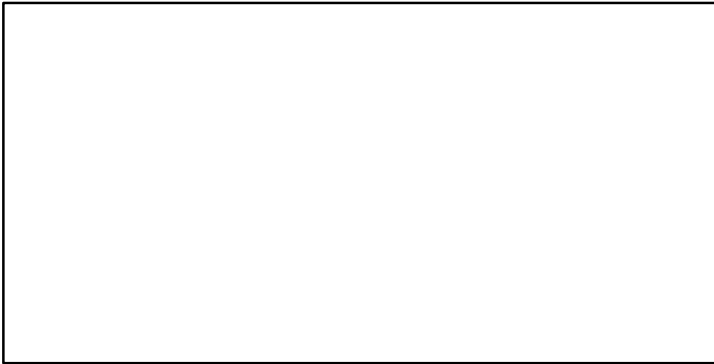
survB*



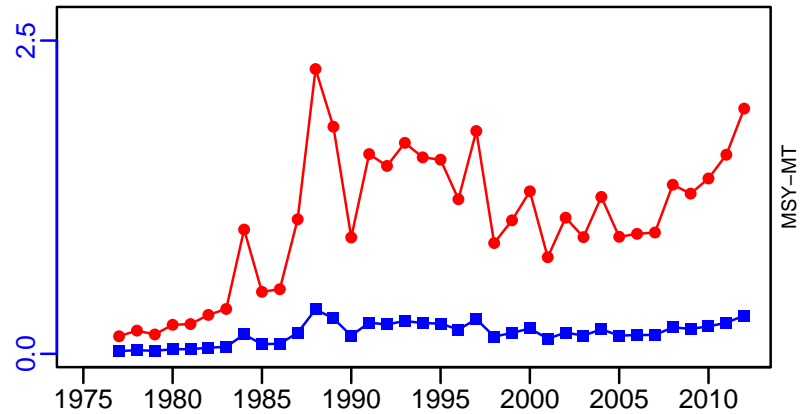
CPUE*



EFFORT*



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



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

Northern rock sole Gulf of Alaska [NRSOLEGA]

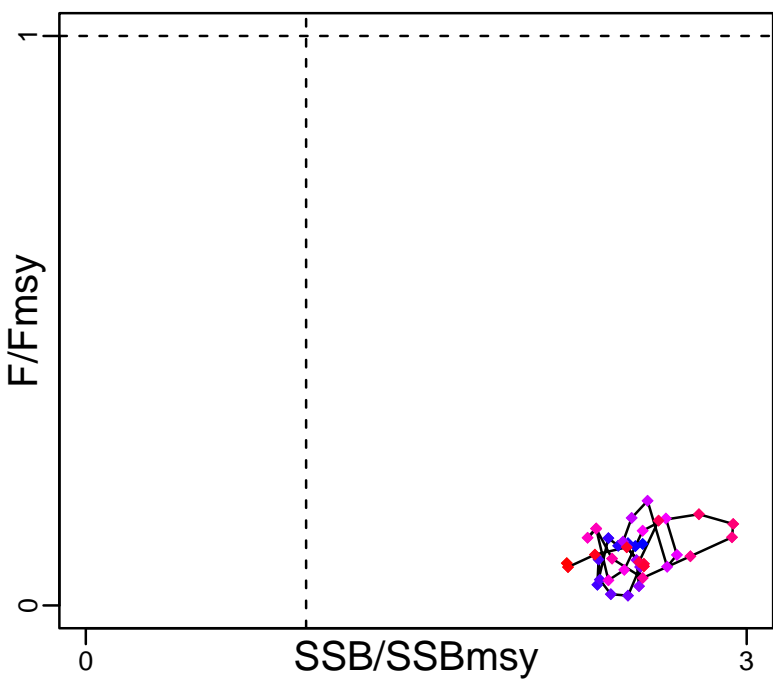
Metadata	
Scientific Name	Lepidopsetta polyxystra
Current Assess ID	AFSC-NRSOLEGA-1977-2019-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2018, 2019

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

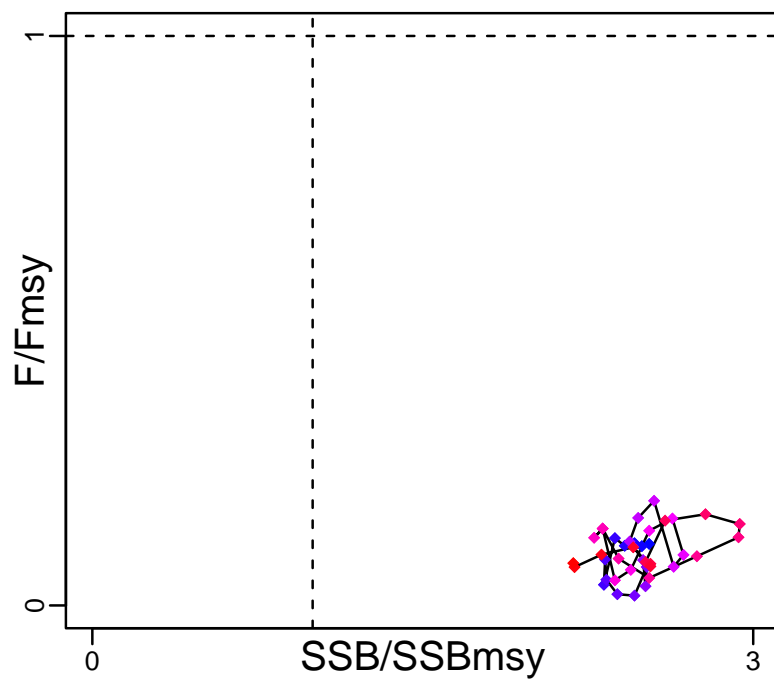
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	75,600	-	3+
SSB	SSB-MT	2019	41,800	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.31×10^8	-	0
F	F-1/yr	2019	0.034	-	-
ER	ER-calc-ratio	2015	0.023	-	-
TC	TC-MT	2019	1090		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.322		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Northern rock sole Gulf of Alaska [NRSOLEGA]

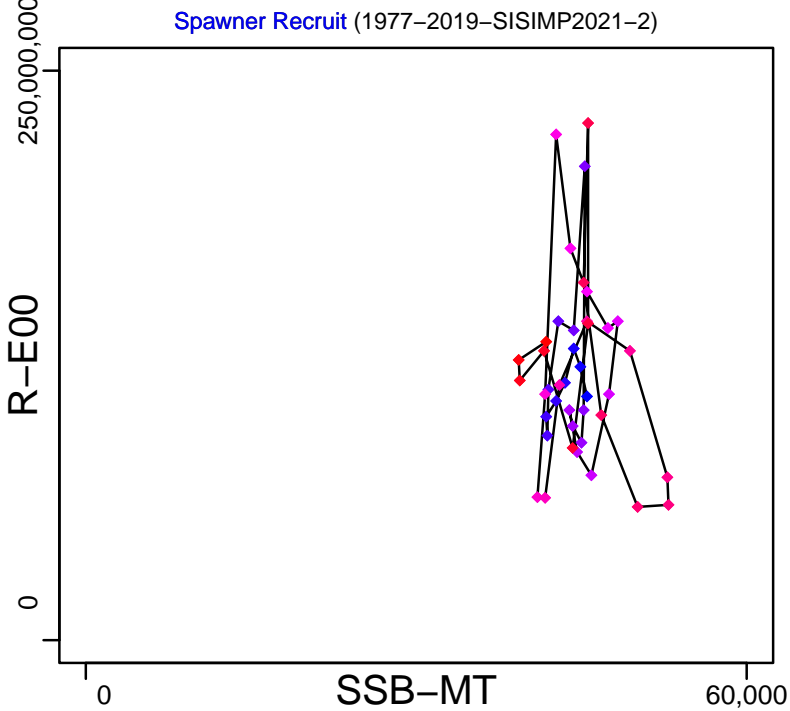
Kobe MSYpref (1977–2019–SISIMP2021–2)



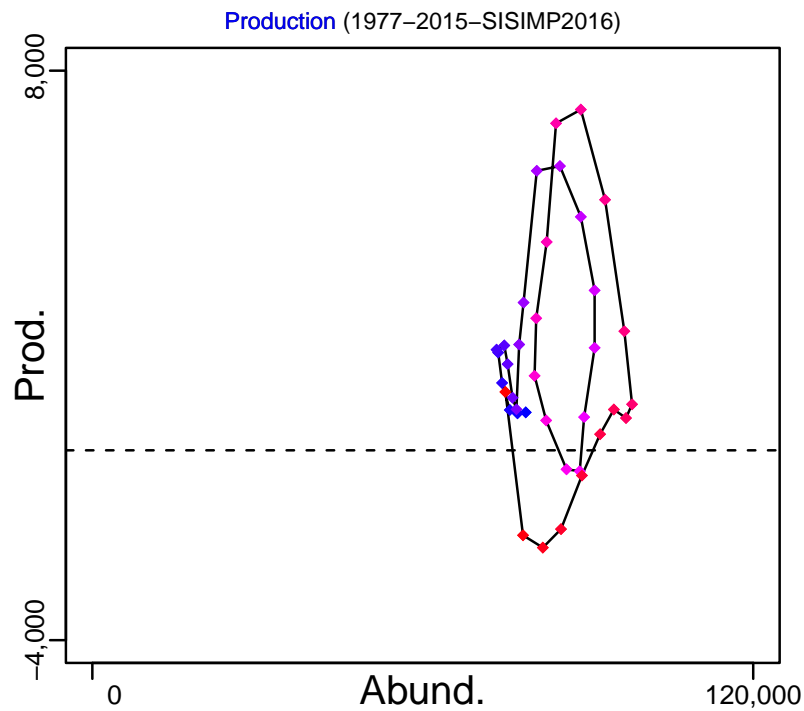
Kobe MGTpref (1977–2019–SISIMP2021–2)



Spawner Recruit (1977–2019–SISIMP2021–2)



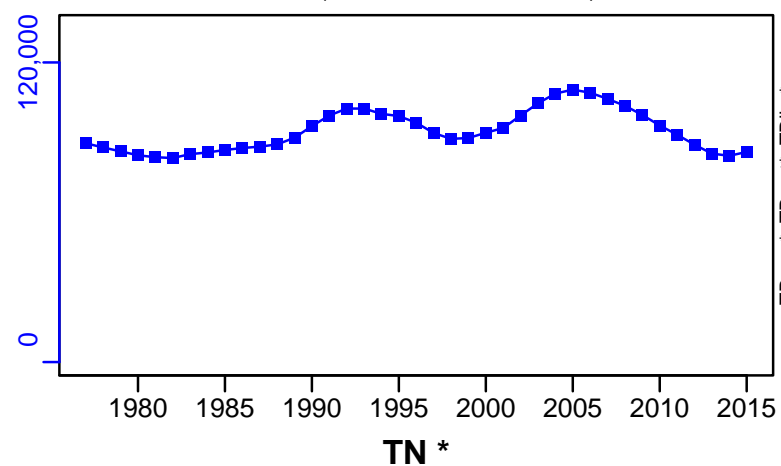
Production (1977–2015–SISIMP2016)



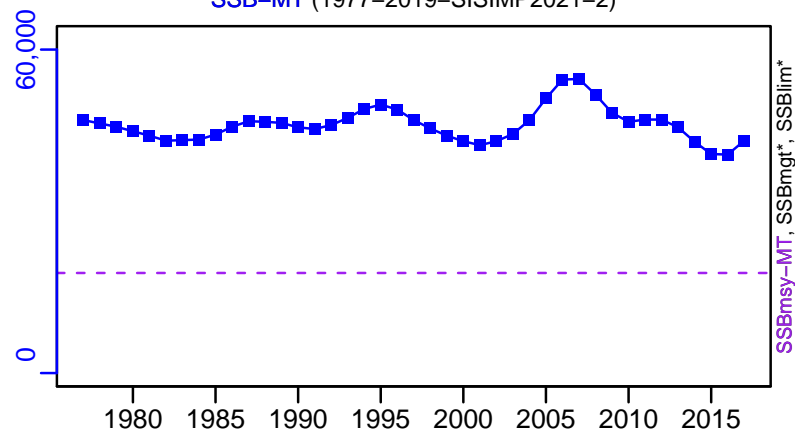
◆ Start Year ◆ End Year * No Data

Northern rock sole Gulf of Alaska [NRSOLEGA]

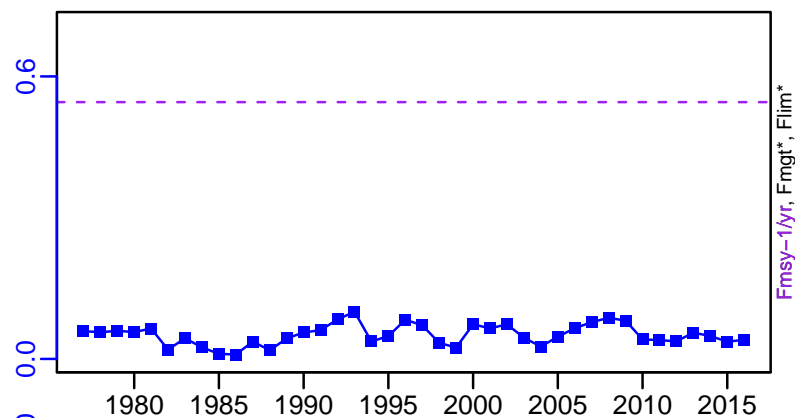
TB-MT (1977-2015-SISIMP2016)



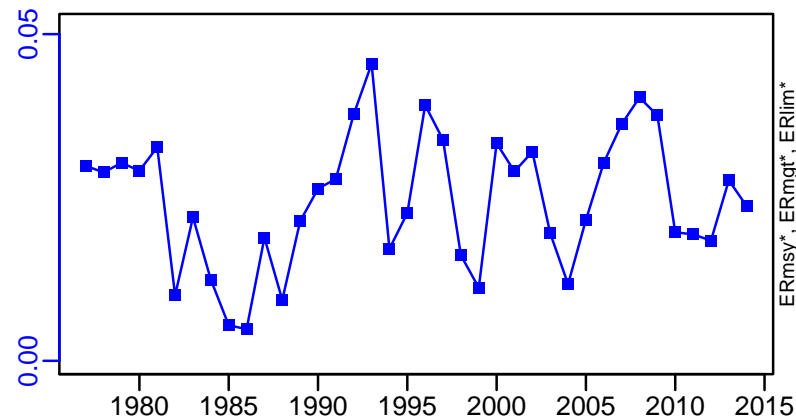
SSB-MT (1977-2019-SISIMP2021-2)



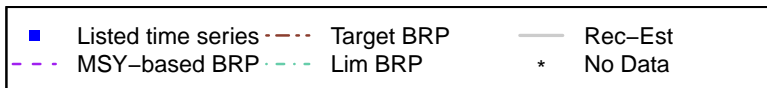
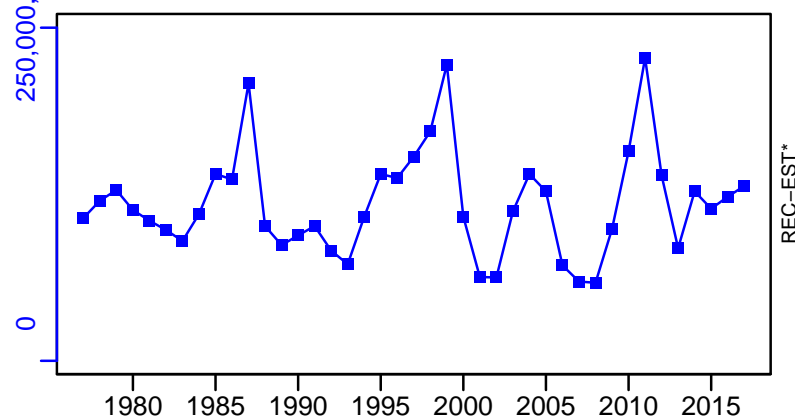
F-1/yr (1977-2019-SISIMP2021-2)



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

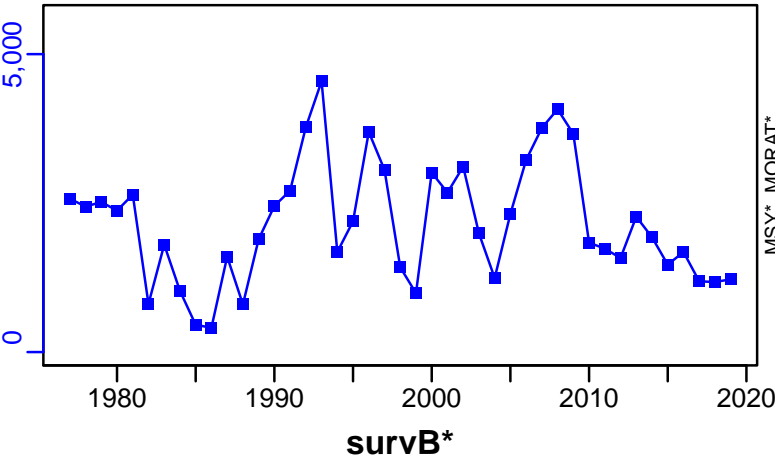


R-E00 (1977-2019-SISIMP2021-2)



Northern rock sole Gulf of Alaska [NRSOLEGA]

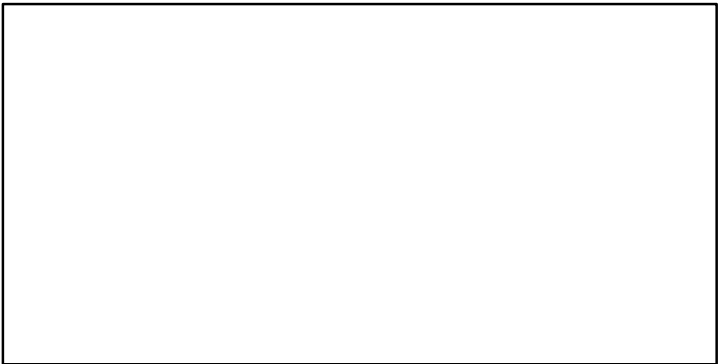
TC-MT, TL*, RecC* (1977-2019-SISIMP2021-2)



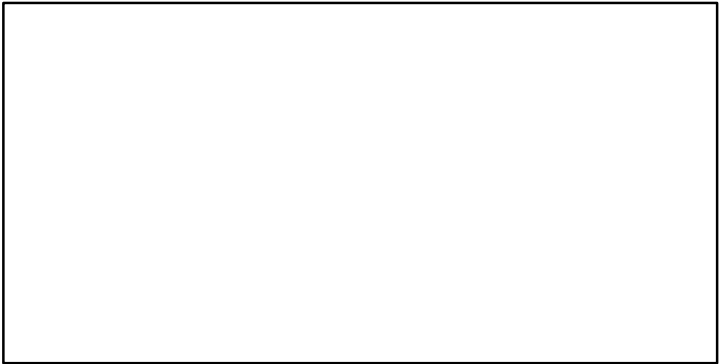
TAC*, Cpair*, Cadv*



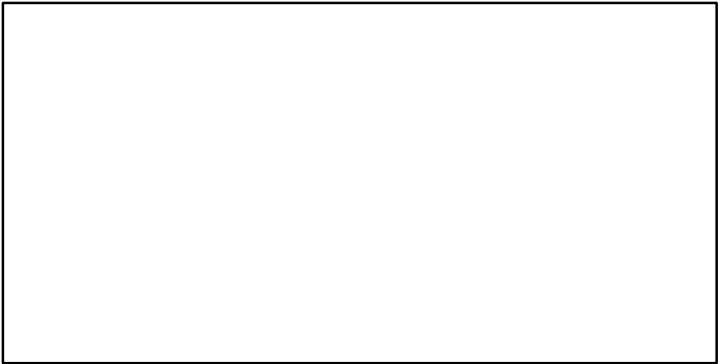
CPUE*



EFFORT*



CdivMSY*



Japanese flounder East China Sea [OFLOUNECS]

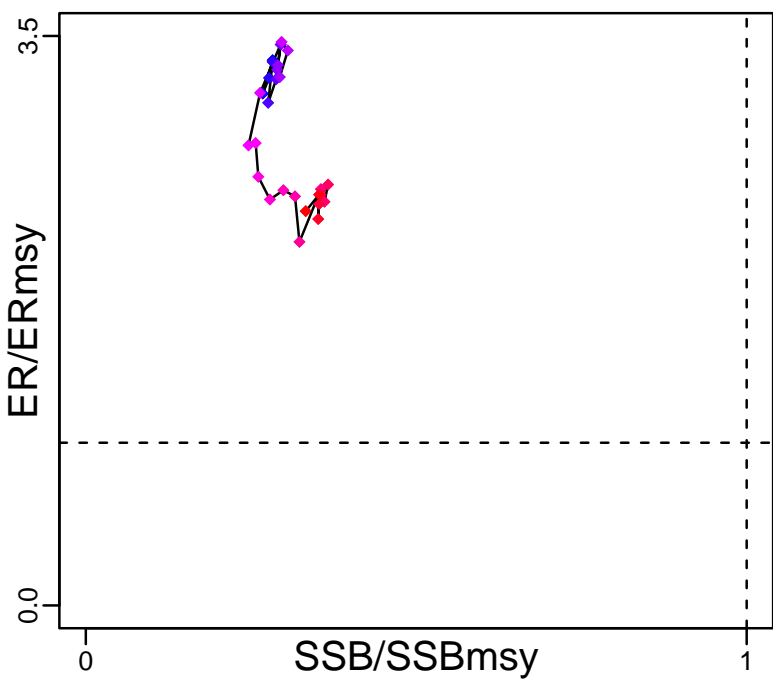
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAFRFJ-OFLOUNECS-1975-2013-JPNIMP2016
Area	East China Sea
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	7826
SSBmsy	SSBmsy-MT	2013	7393
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.151
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1182
M	M-1/yr	2013	0.208
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	2181
Flim	-	-	-
ERlim	-	-	-

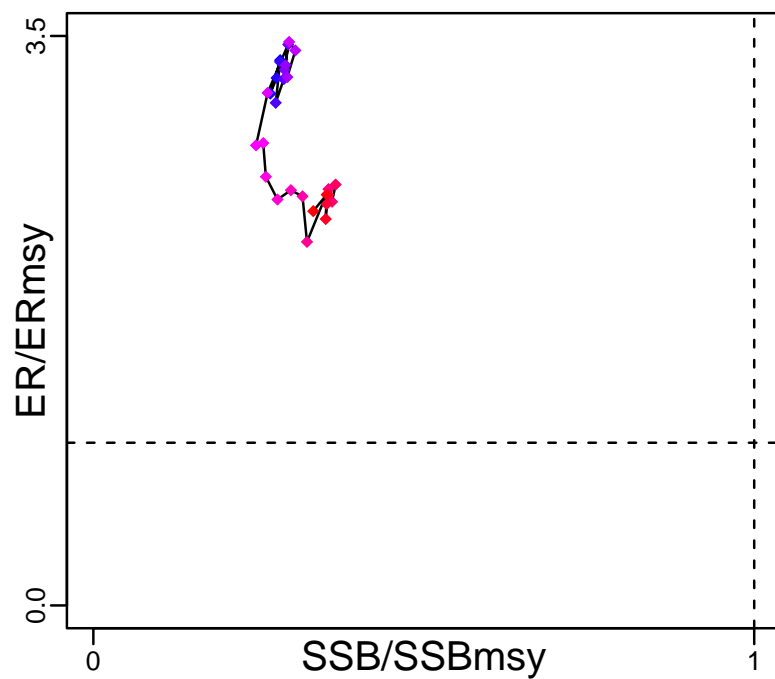
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	3170	-	1
SSB	SSB-MT	2013	2460	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,290,000	-	0
F	F-1/yr	2010	0.59	-	0 to 7
ER	ER-calc-ratio	2013	0.366	-	-
TC	TC-MT	2013	1160		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.405		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.333		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.423		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder East China Sea [OFLOUNECS]

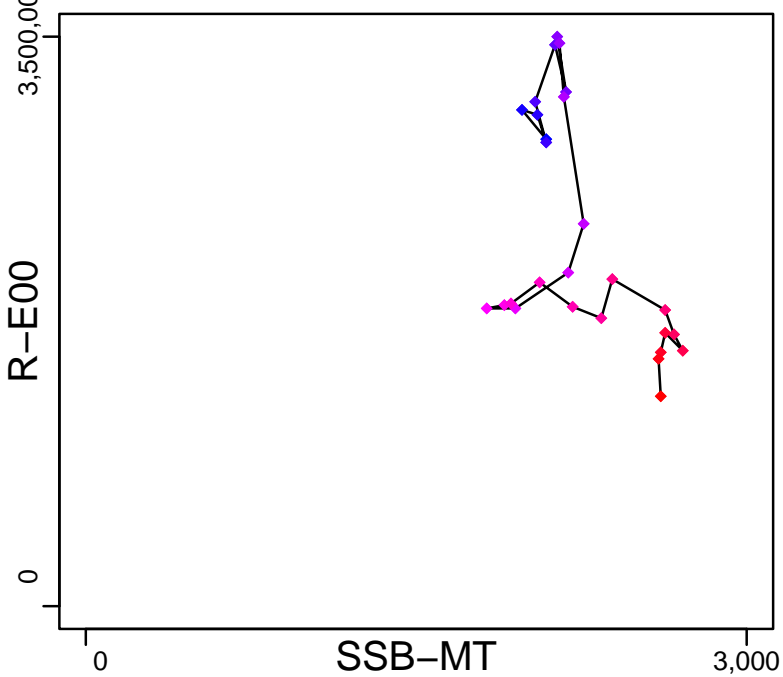
Kobe MSYpref (1975–2013–JPNIMP2016)



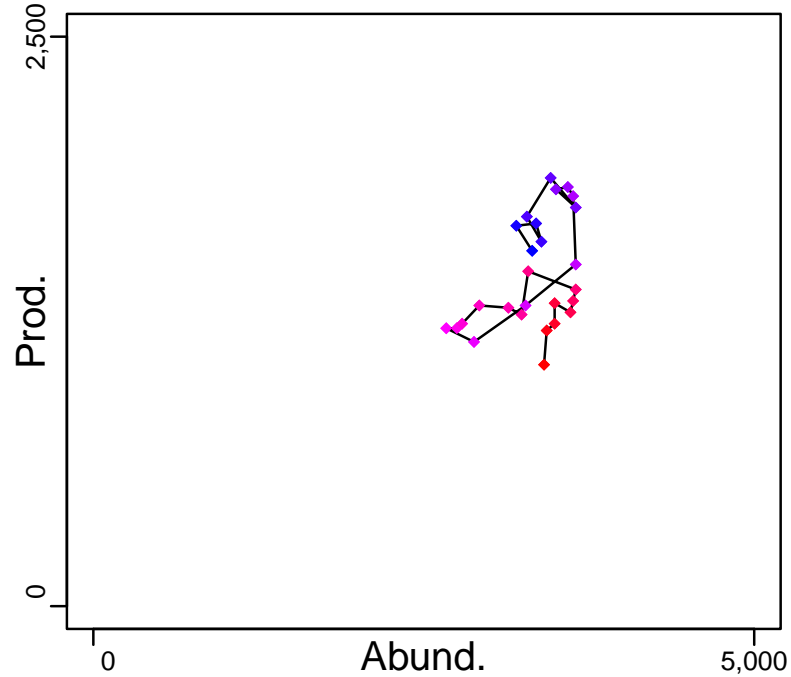
Kobe MGTpref (1975–2013–JPNIMP2016)



Spawner Recruit (1975–2013–JPNIMP2016)



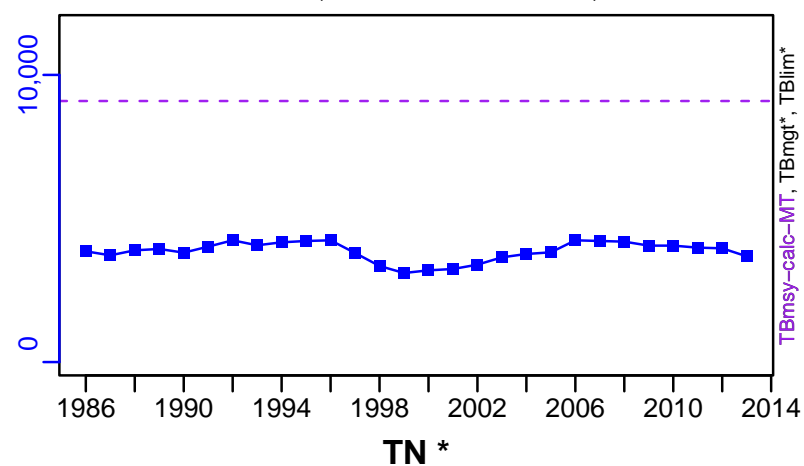
Production (1975–2013–JPNIMP2016)



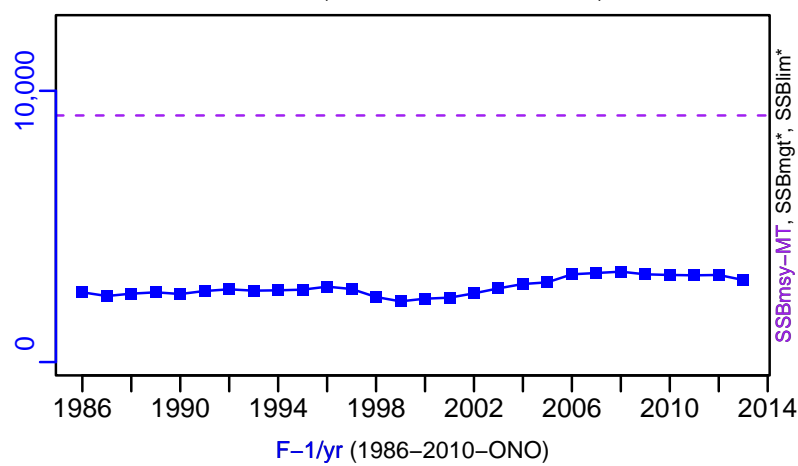
◆ Start Year ◆ End Year * No Data

Japanese flounder East China Sea [OFLOUNECS]

TB-MT (1975-2013-JPNIMP2016)



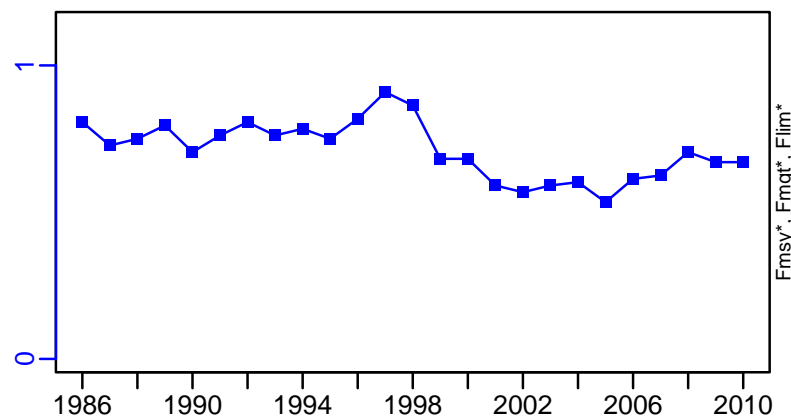
SSB-MT (1975-2013-JPNIMP2016)



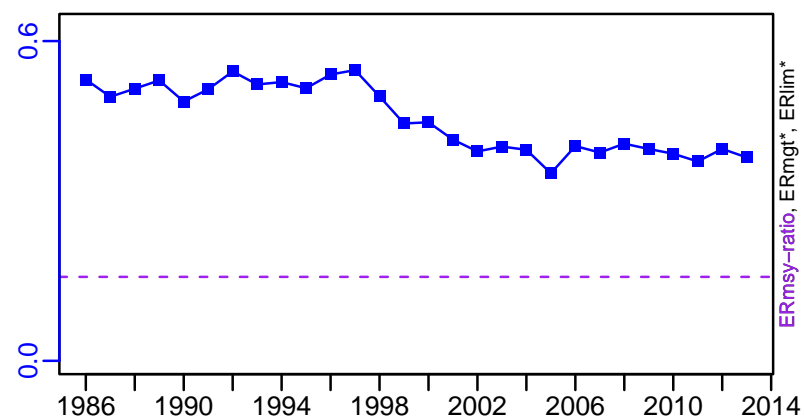
TN *



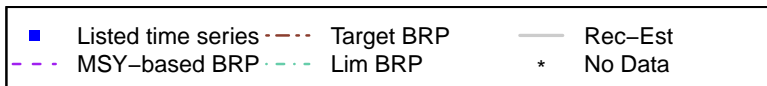
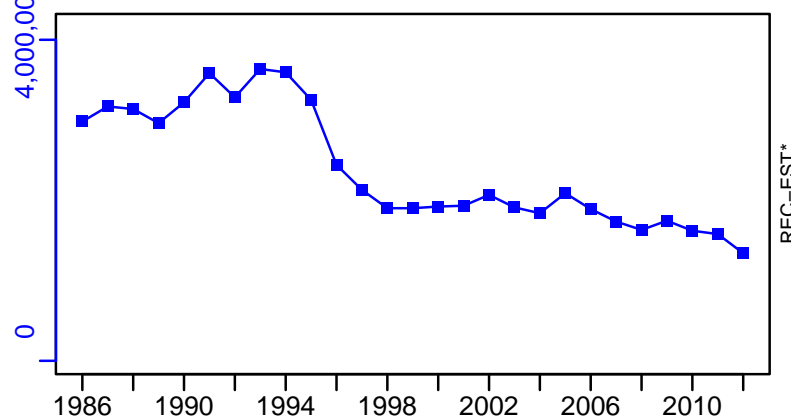
F-1/yr (1986-2010-ONO)



ER-calc-ratio (1975-2013-JPNIMP2016)

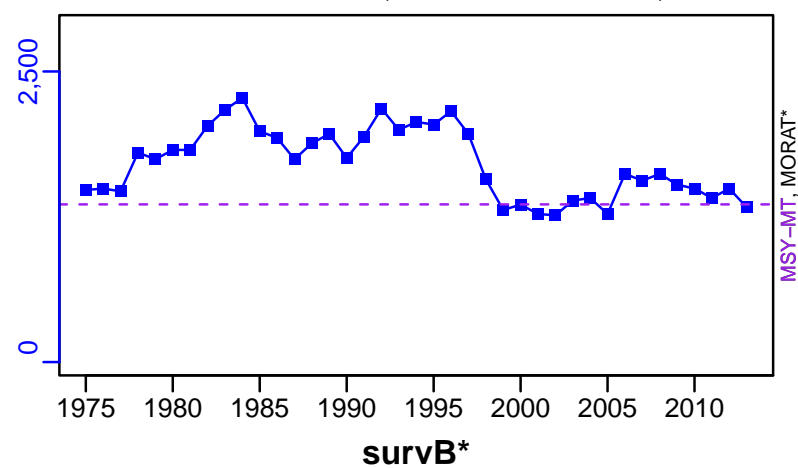


R-E00 (1975-2013-JPNIMP2016)



Japanese flounder East China Sea [OFLOUNECS]

TC-MT, TL*, RecC* (1975–2013–JPNIMP2016)



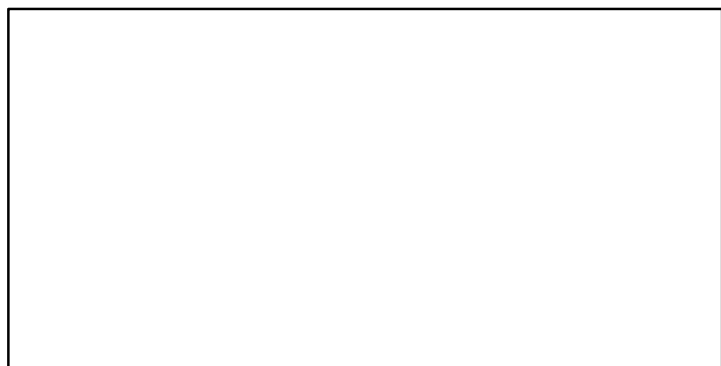
TAC*, Cpair*, Cadv*



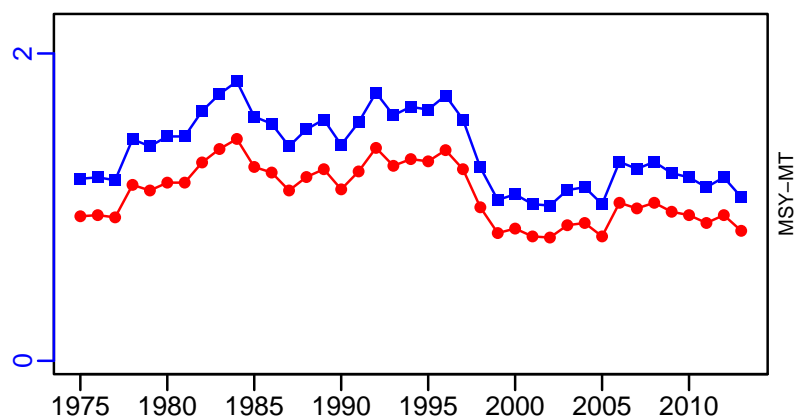
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975–2013–JPNIMP2016)



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

Japanese flounder Sea of Japan North [OFLOUNNSJ]

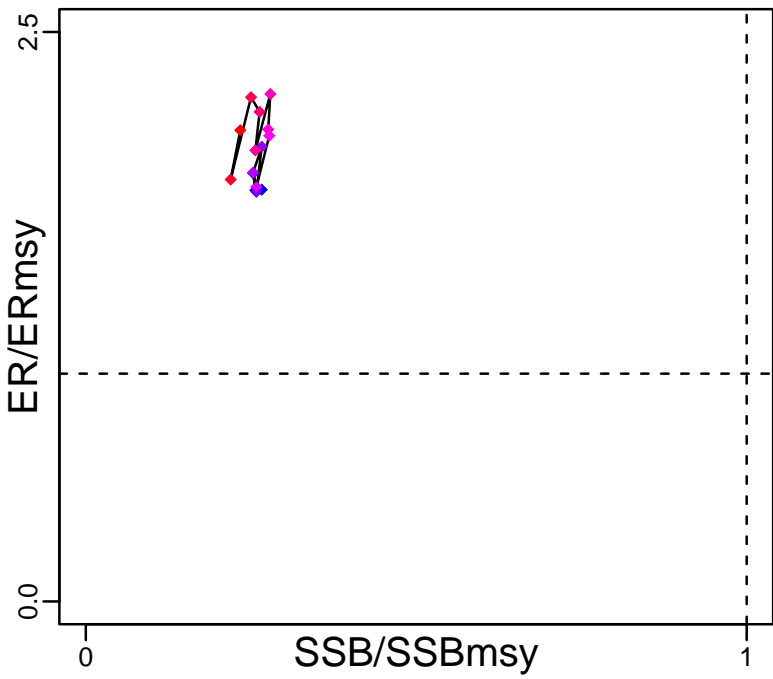
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAFRFJ-OFLOUNNSJ-1970-2013-JPNIMP2016
Area	Sea of Japan North
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	7172
SSBmsy	SSBmsy-MT	2013	6160
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.217
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1556
M	M-1/yr	2013	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	2900
Flim	-	-	-
ERlim	-	-	-

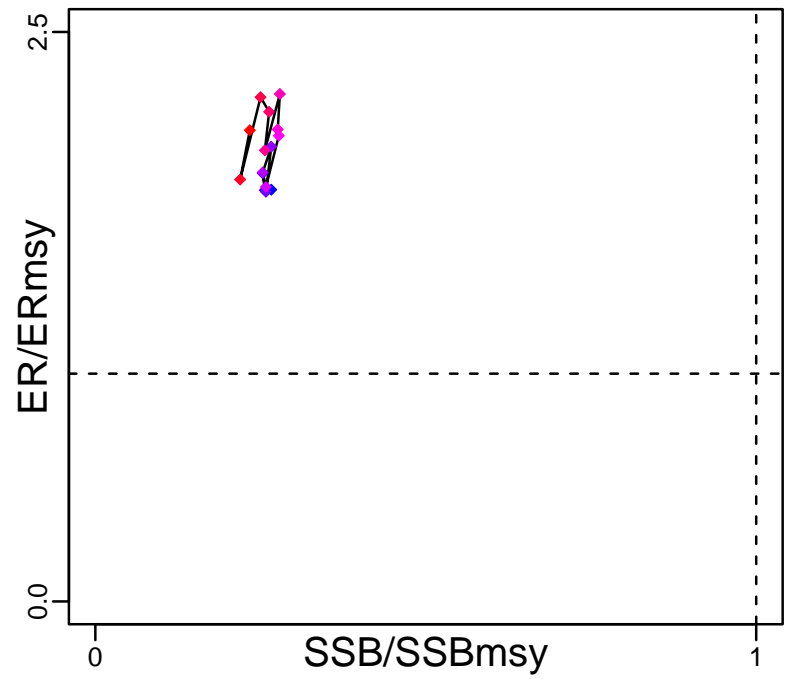
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2210	-	1
SSB	SSB-MT	2013	1440	Both	2
TN	-	-	-	-	-
R	R-E00	2013	1,990,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.449	-	-
TC	TC-MT	2013	992		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.308		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.234		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	2.069		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Sea of Japan North [OFLOUNNSJ]

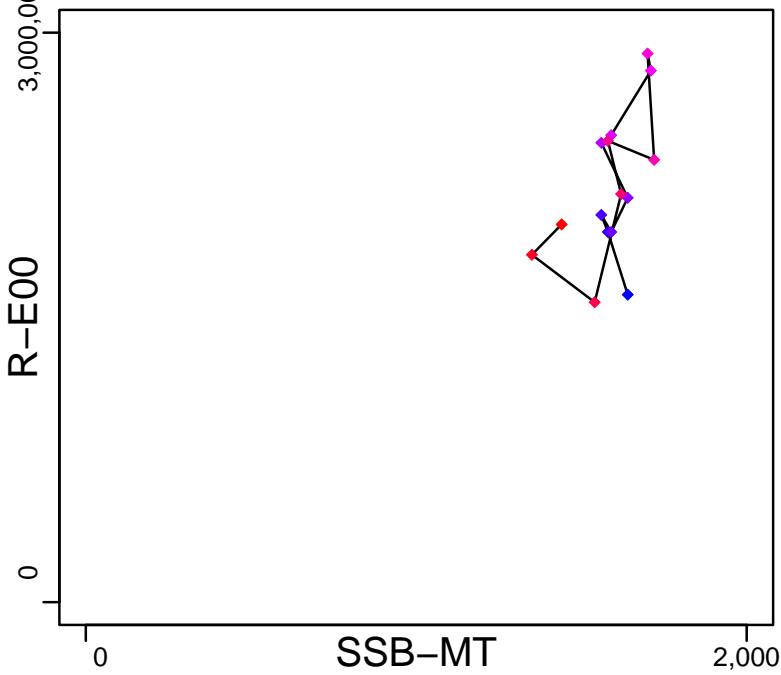
Kobe MSYpref (1970–2013–JPNIMP2016)



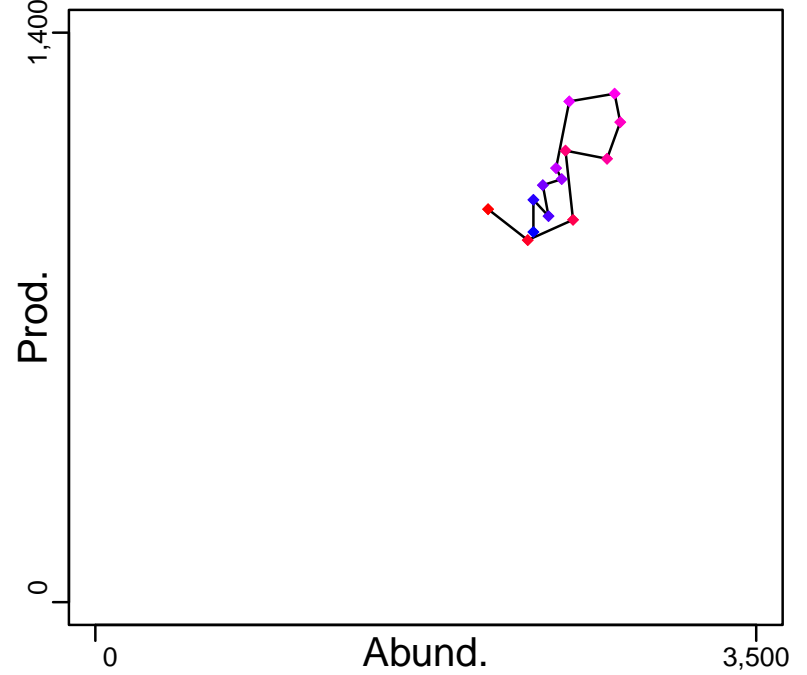
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



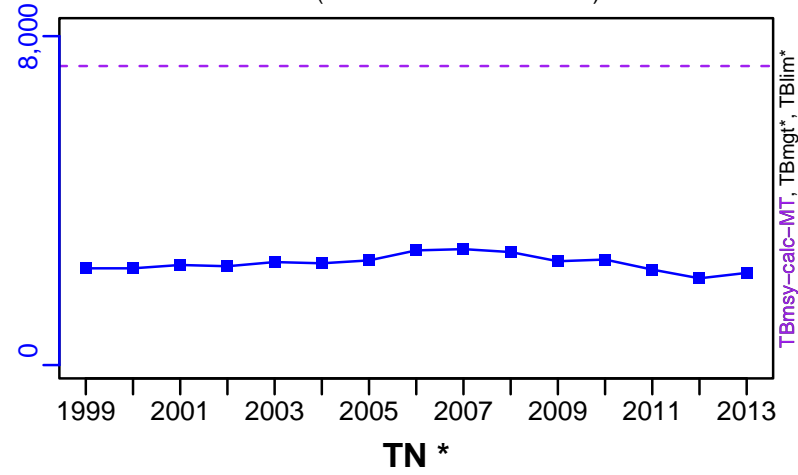
Production (1970–2013–JPNIMP2016)



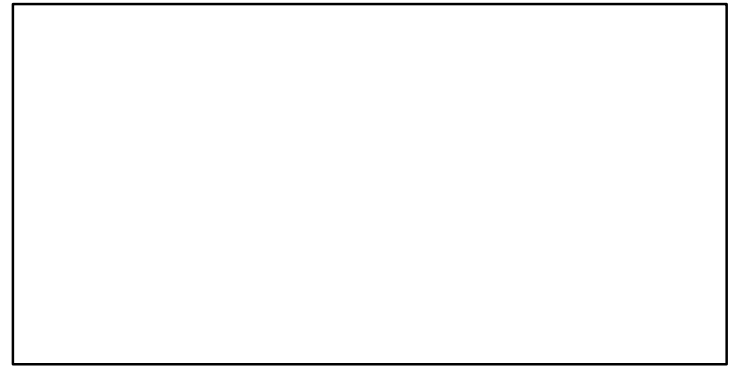
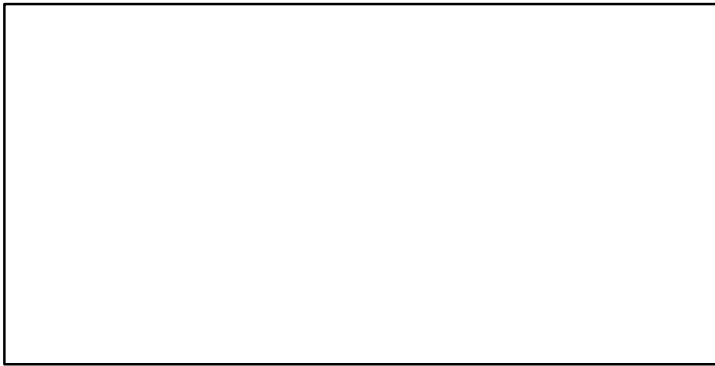
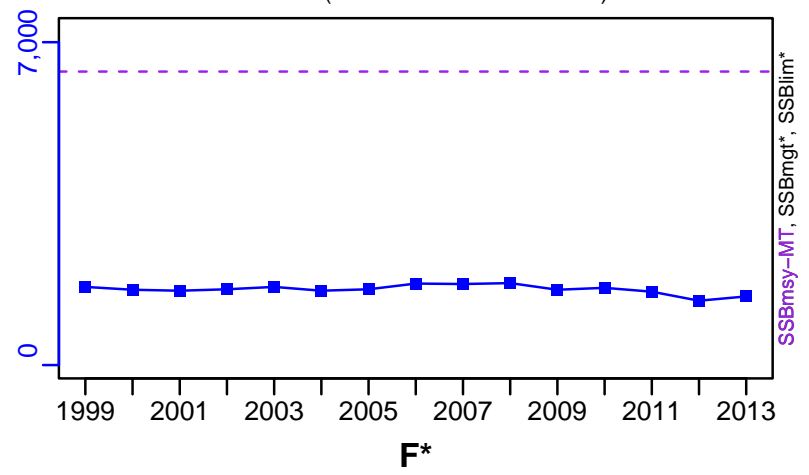
◆ Start Year ◆ End Year * No Data

Japanese flounder Sea of Japan North [OFLOUNNSJ]

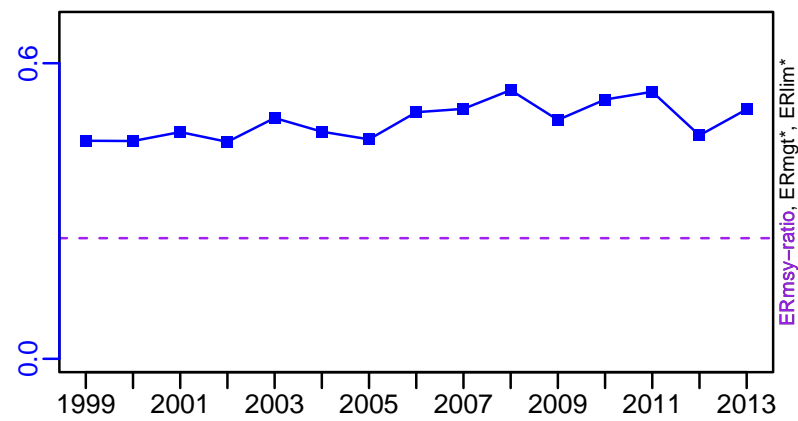
TB-MT (1970-2013-JPNIMP2016)



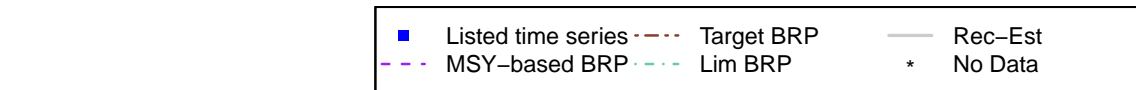
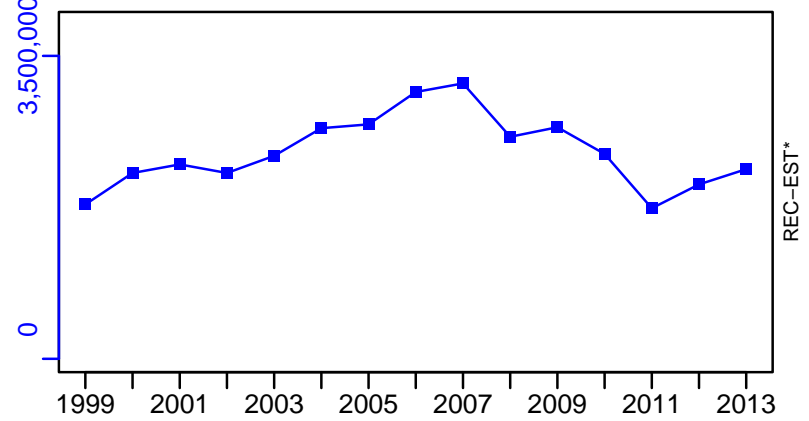
SSB-MT (1970-2013-JPNIMP2016)



ER-calc-ratio (1970-2013-JPNIMP2016)



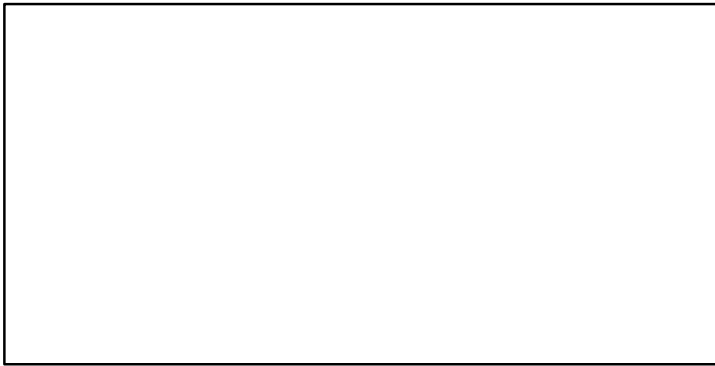
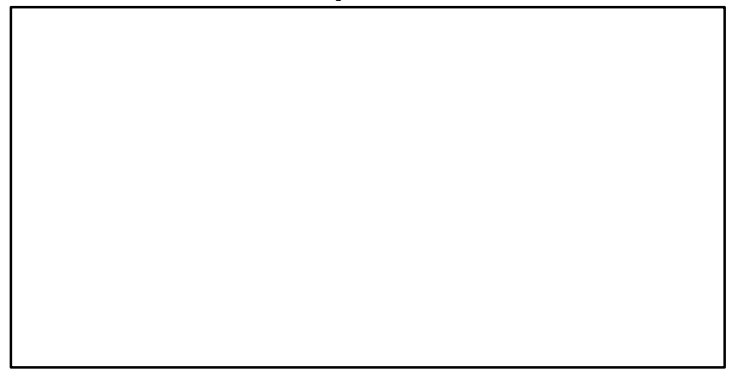
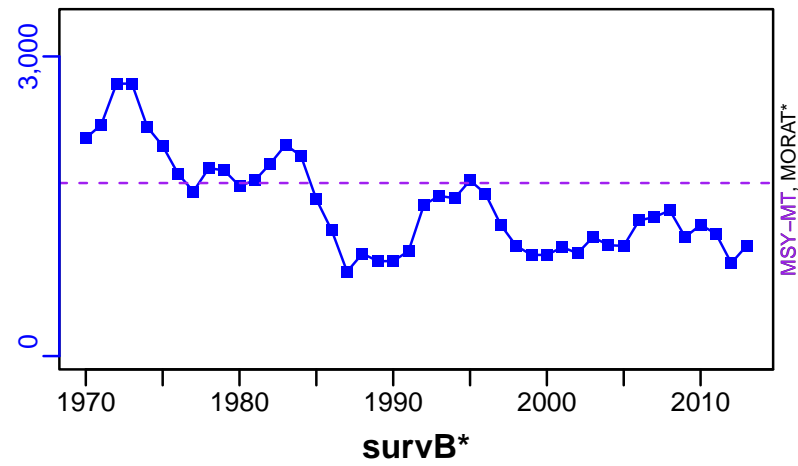
R-E00 (1970-2013-JPNIMP2016)



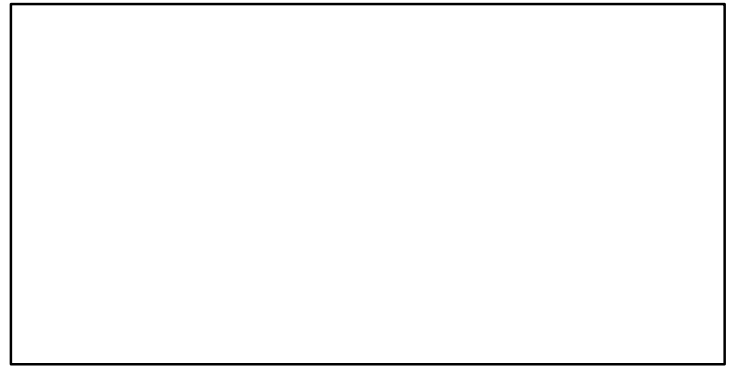
Japanese flounder Sea of Japan North [OFLOUNNSJ]

TC-MT, TL*, RecC* (1970–2013–JPNIMP2016)

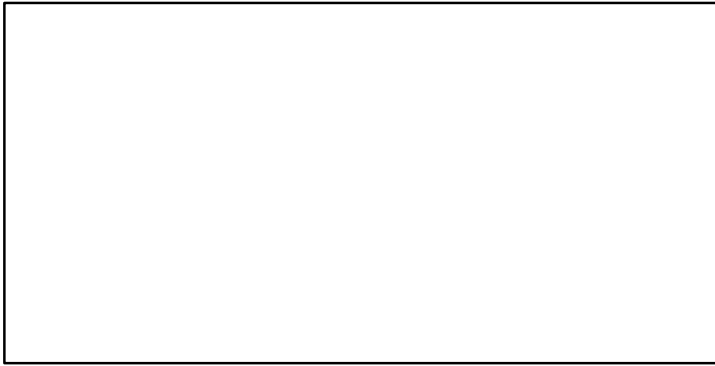
TAC*, Cpair*, Cadv*



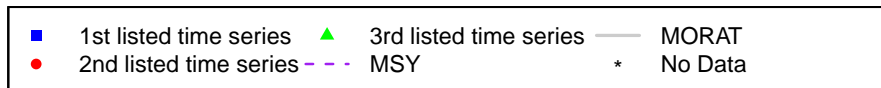
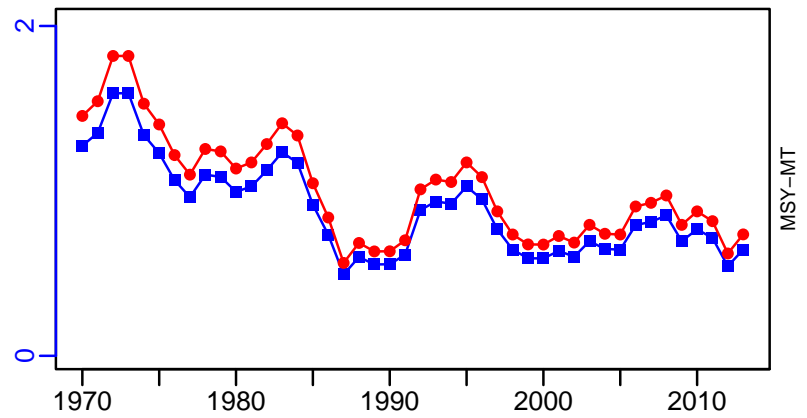
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970–2013–JPNIMP2016)



Japanese flounder Pacific Ocean [OFLOUNPAC]

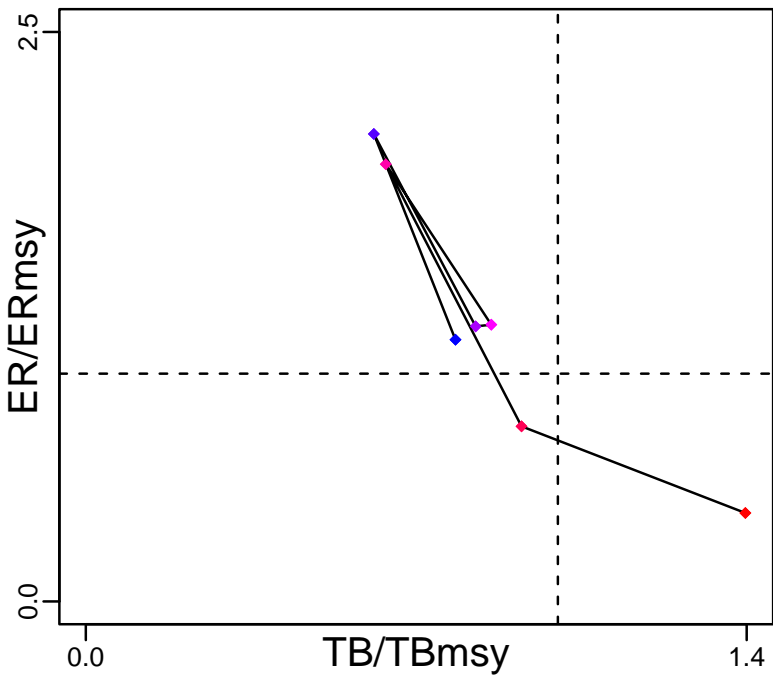
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAFRFJ-OFLOUNPAC-1970-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2013	5146
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.419
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2013	2156
M	M-1/yr	2013	0.21
TBlim	-	-	-
SSBlim	SSBlim-MT	2009	1600
Flim	-	-	-
ERlim	-	-	-

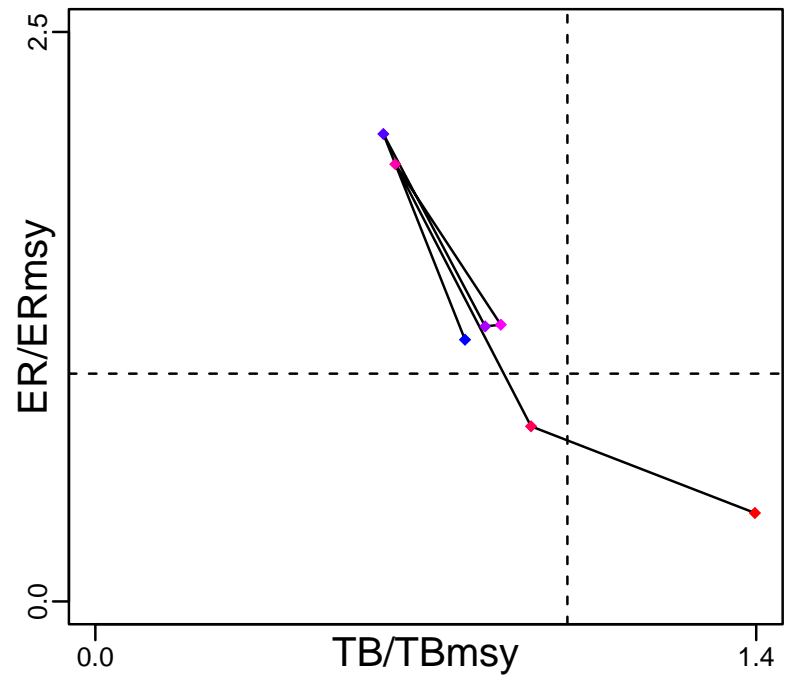
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	7190	-	1
SSB	SSB-MT	2013	1070	Both	3
TN	-	-	-	-	-
R	R-E00	2013	1,940,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.163	-	-
TC	TC-MT	2013	2380		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.397		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.388		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Pacific Ocean [OFLOUNPAC]

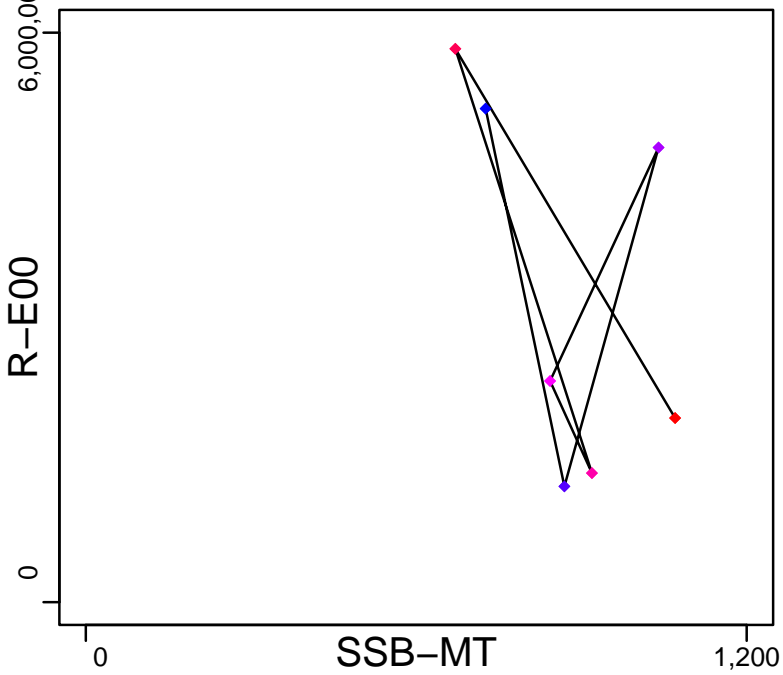
Kobe MSYpref (1970–2013–JPNIMP2016)



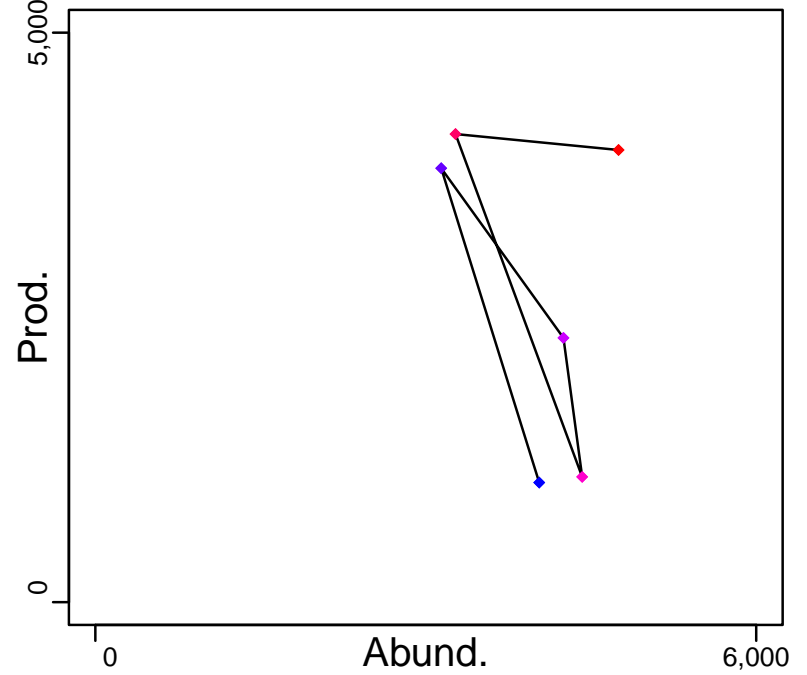
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)



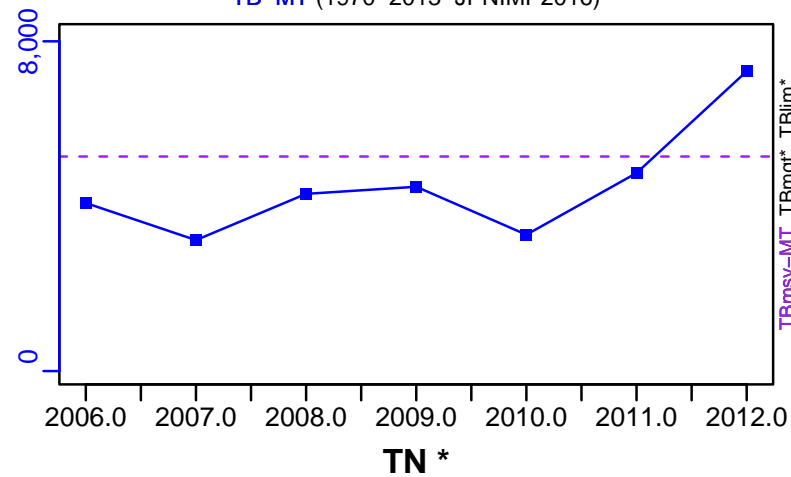
Production (1970–2013–JPNIMP2016)



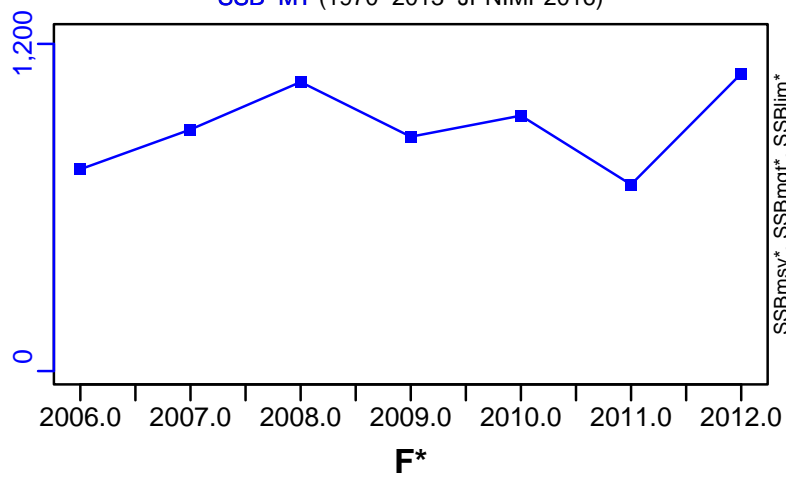
◆ Start Year ◆ End Year * No Data

Japanese flounder Pacific Ocean [OFLOUNPAC]

TB-MT (1970-2013-JPNIMP2016)



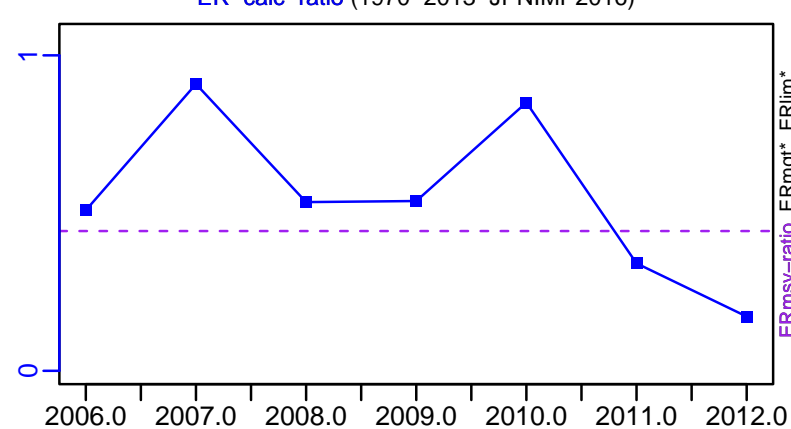
SSB-MT (1970-2013-JPNIMP2016)



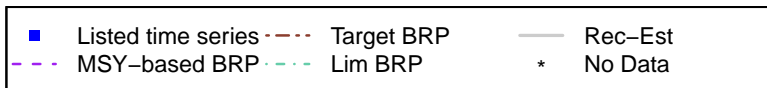
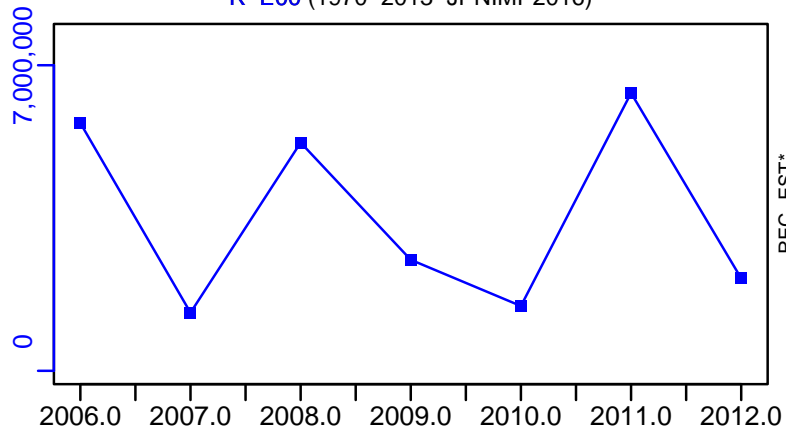
TN *

F*

ER-calc-ratio (1970-2013-JPNIMP2016)

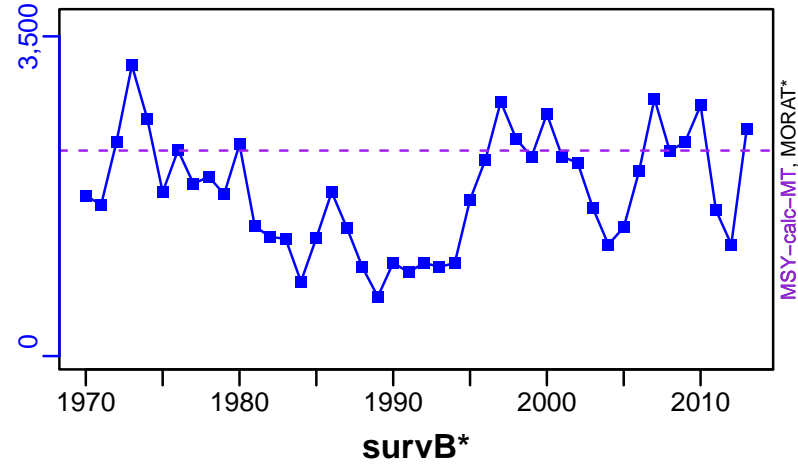


R-E00 (1970-2013-JPNIMP2016)



Japanese flounder Pacific Ocean [OFLOUNPAC]

TC-MT, TL*, RecC* (1970-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



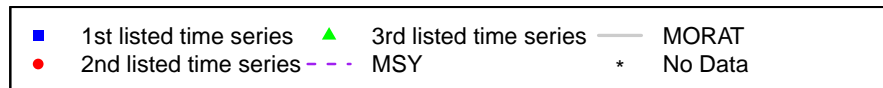
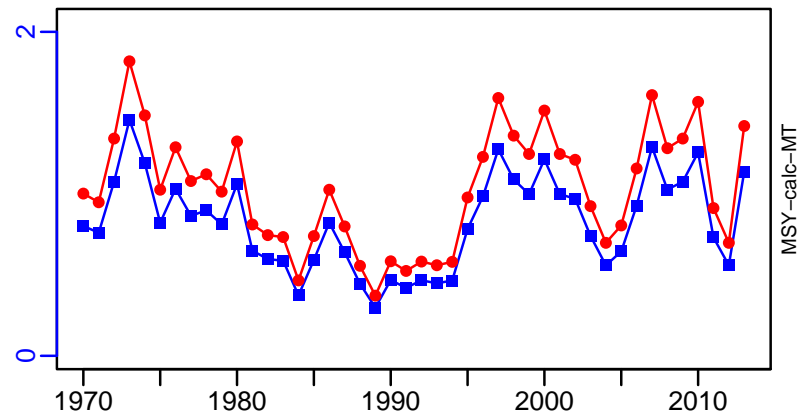
CPUE*



EFFORT*



TC-MT/MSY-calc-MT, CdivMEANC-ratio, (1970-2013-JPNIMP2016)



Japanese flounder Inland Sea of Japan [OFLOUNSETO]

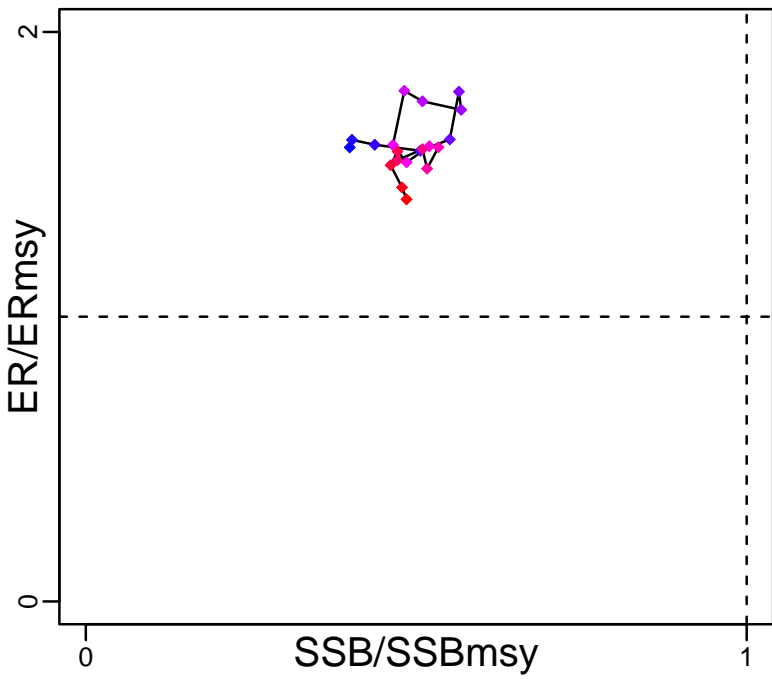
Metadata	
Scientific Name	Paralichthys olivaceus
Current Assess ID	FAFRFJ-OFLOUNSETO-1965-2013-JPNIMP2016
Area	Inland Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	4012
SSBmsy	SSBmsy-MT	2013	2905
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.218
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	875
M	M-1/yr	2013	0.31
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	992
Flim	-	-	-
ERlim	-	-	-

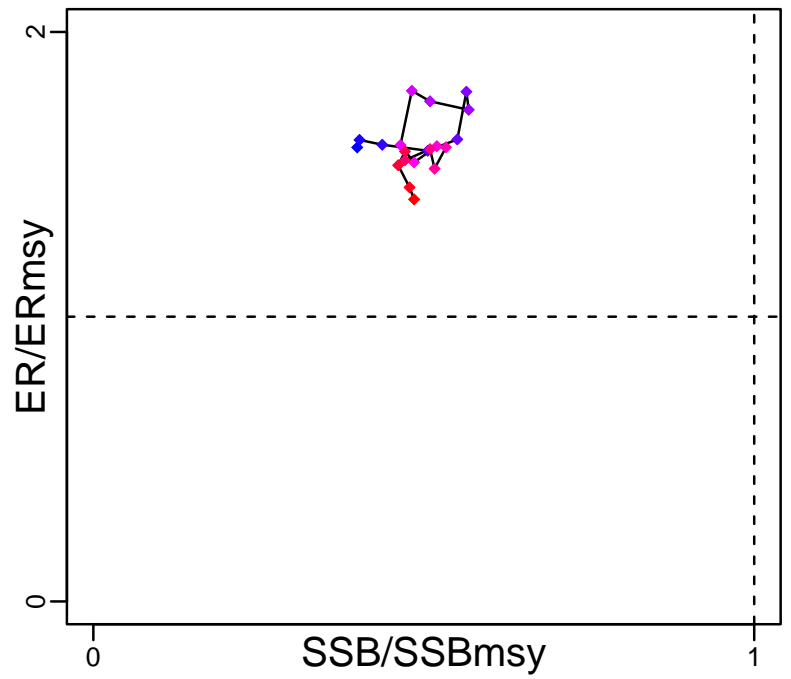
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2170	-	0
SSB	SSB-MT	2013	1410	Both	2
TN	-	-	-	-	-
R	R-E00	2013	897,000	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.308	-	-
TC	TC-MT	2013	668		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.541		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.485		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.412		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Japanese flounder Inland Sea of Japan [OFLOUNSETO]

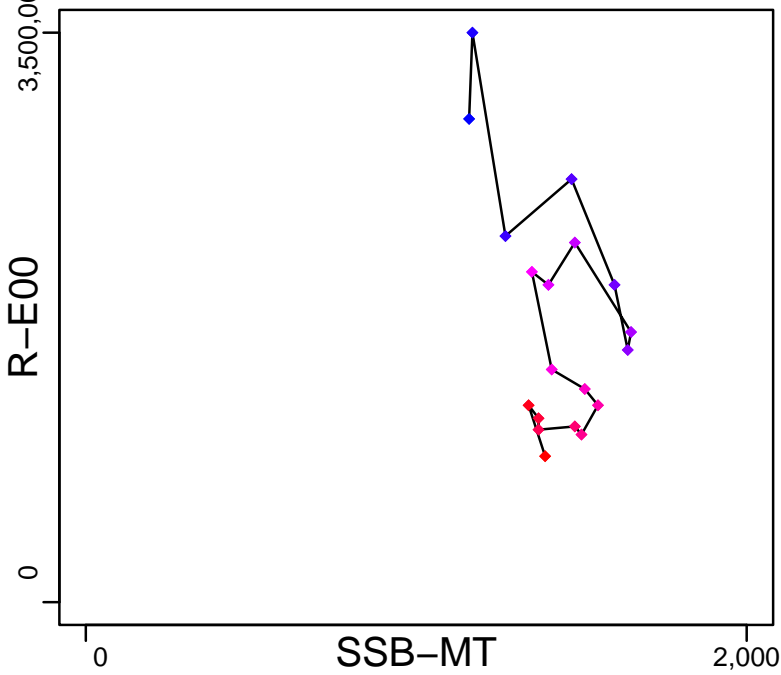
Kobe MSYpref (1965–2013–JPNIMP2016)



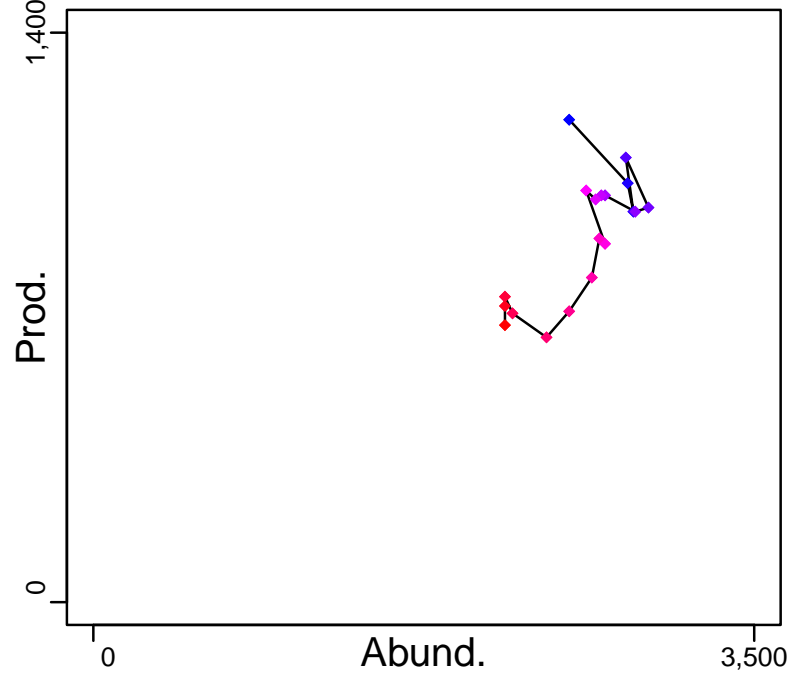
Kobe MGTpref (1965–2013–JPNIMP2016)



Spawner Recruit (1965–2013–JPNIMP2016)



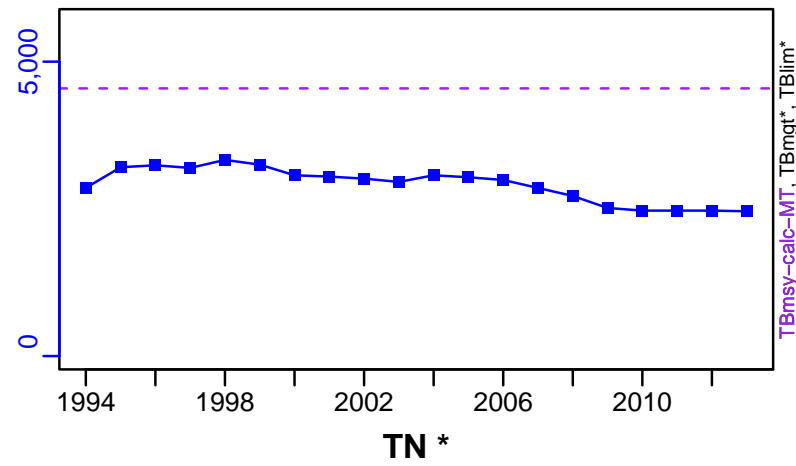
Production (1965–2013–JPNIMP2016)



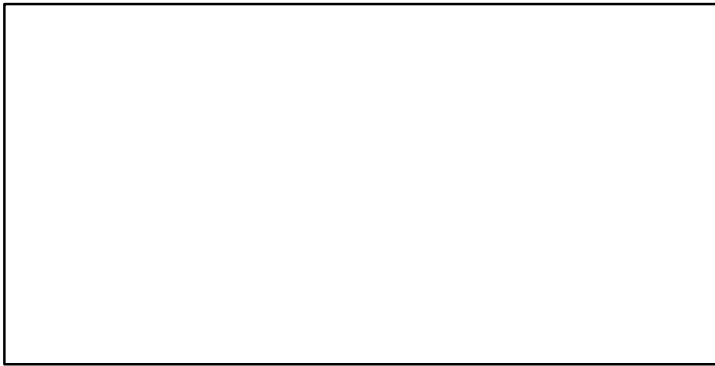
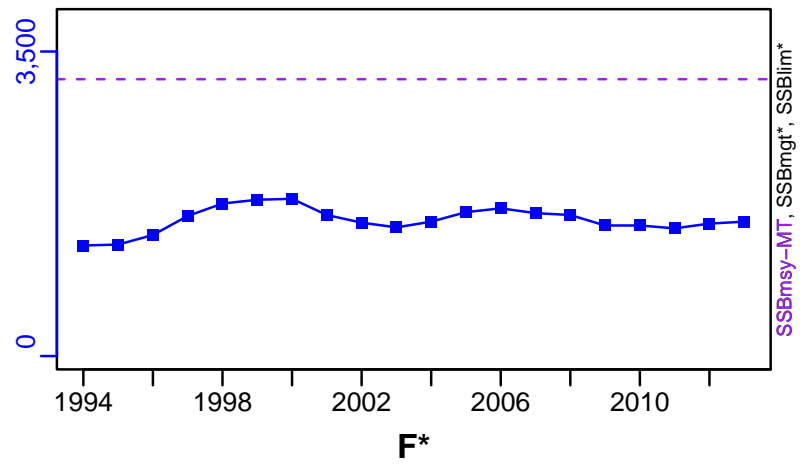
◆ Start Year ◆ End Year * No Data

Japanese flounder Inland Sea of Japan [OFLOUNSETO]

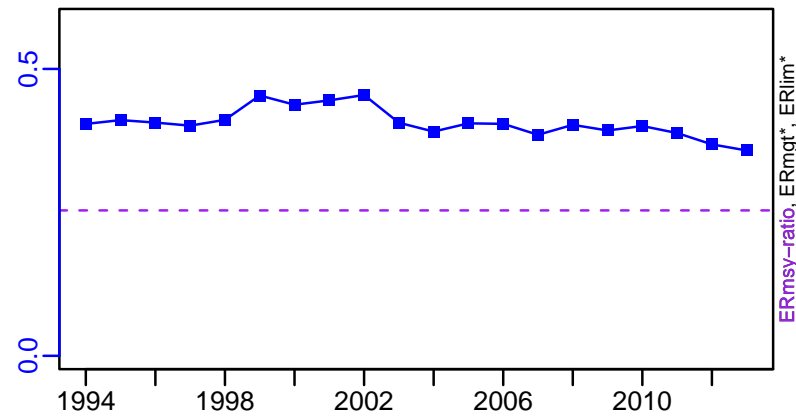
TB-MT (1965-2013-JPNIMP2016)



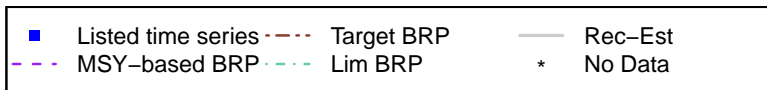
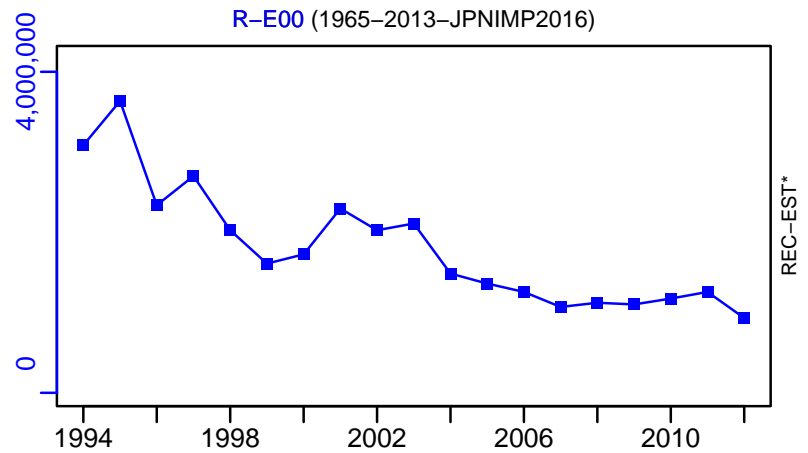
SSB-MT (1965-2013-JPNIMP2016)



ER-calc-ratio (1965-2013-JPNIMP2016)



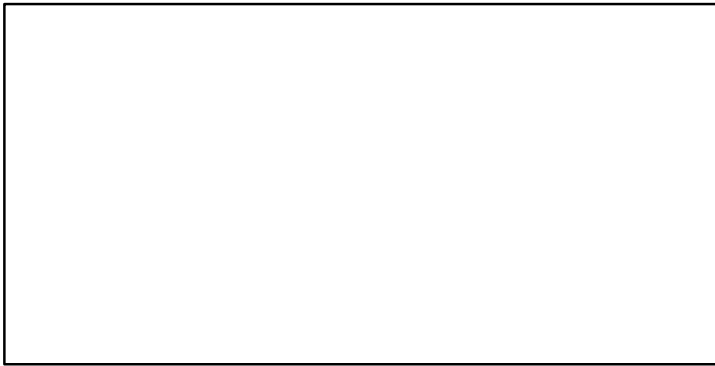
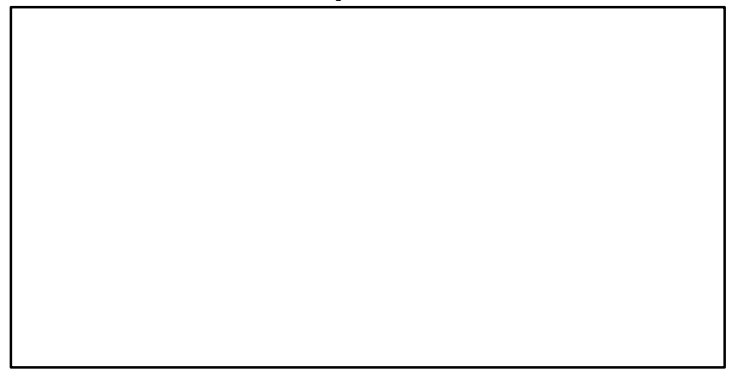
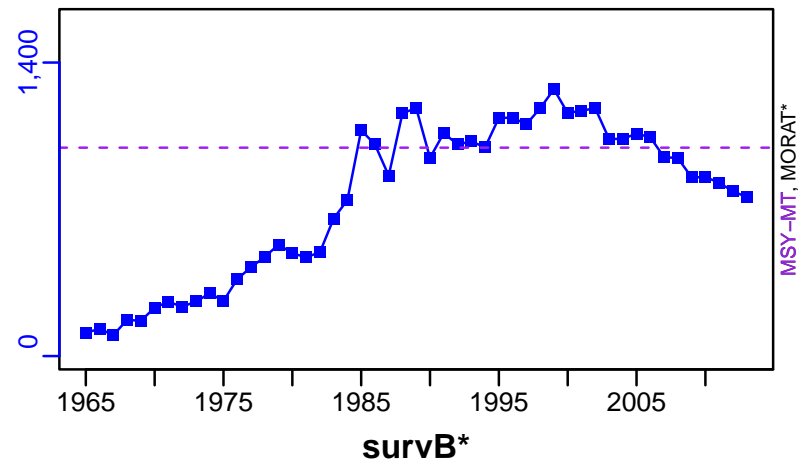
R-E00 (1965-2013-JPNIMP2016)



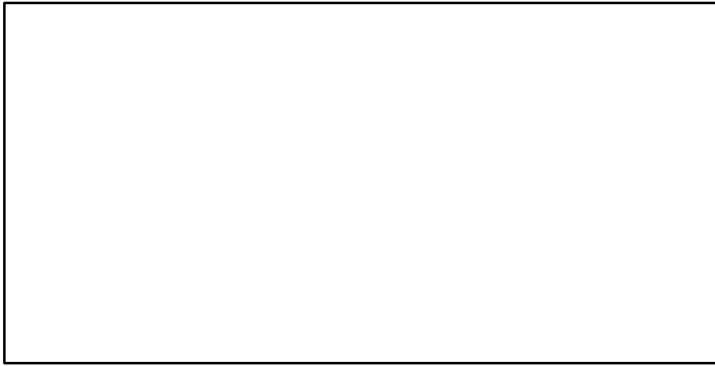
Japanese flounder Inland Sea of Japan [OFLOUNSETO]

TC-MT, TL*, RecC* (1965–2013–JPNIMP2016)

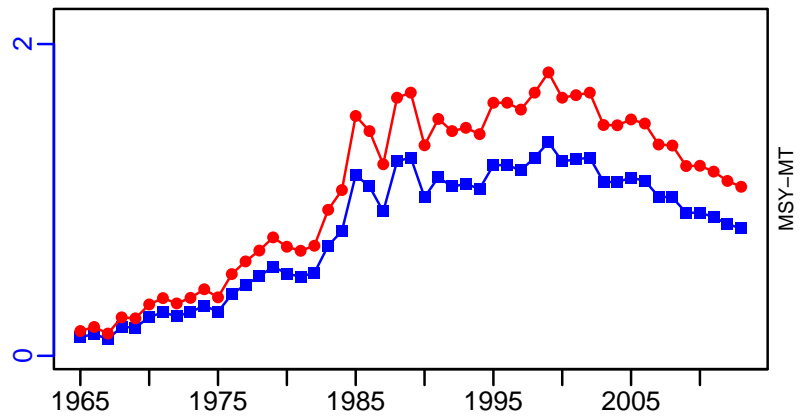
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1965–2013–JPNIMP2016)



Pacific halibut North Pacific [PHALNPAC]

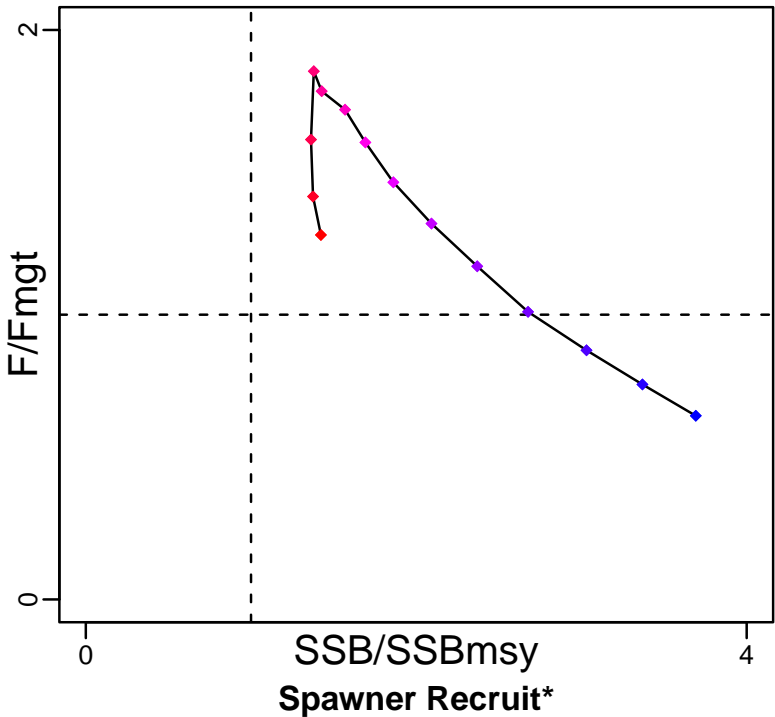
Metadata	
Scientific Name	Hippoglossus stenolepis
Current Assess ID	IPHC-PHALNPAC-1992-2020-SISIMP2022
Area	North Pacific
Management Authority	International Pacific Halibut Commission
Assessor	International Pacific Halibut Commission
Asmts in RAM	2014, 2019, 2020

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

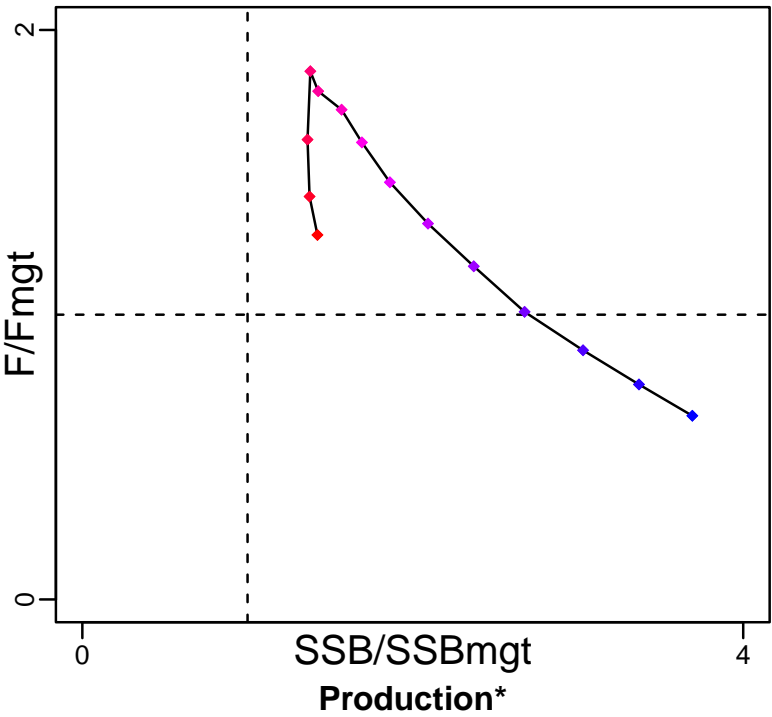
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	77,000	-	-
SSB	SSB-MT	2020	87,997	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2020	0.42	-	-
ER	ER-calc-ratio	2014	0.139	-	-
TC	TC-MT	2019	17,554		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.252		
F/Fmsy	-	-	-		
ER/ERmsy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

Pacific halibut North Pacific [PHALNPAC]

Kobe MSYpref (1888–2014–HIVELY)



Kobe MGTpref (1888–2014–HIVELY)

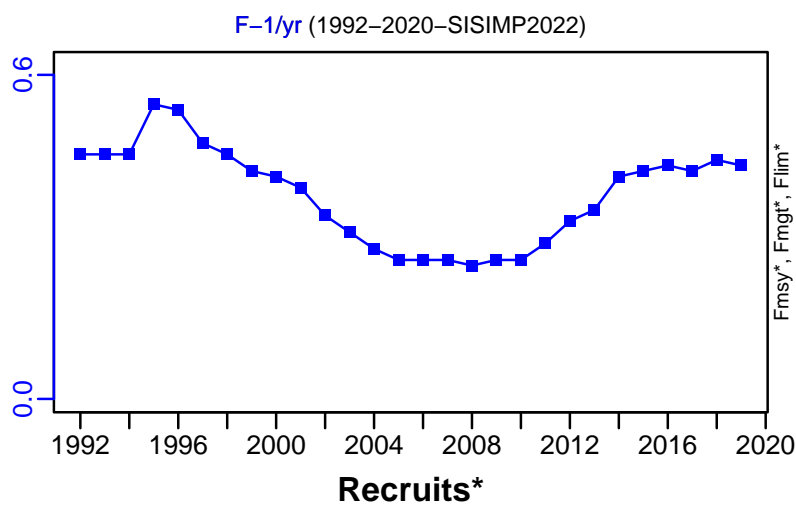
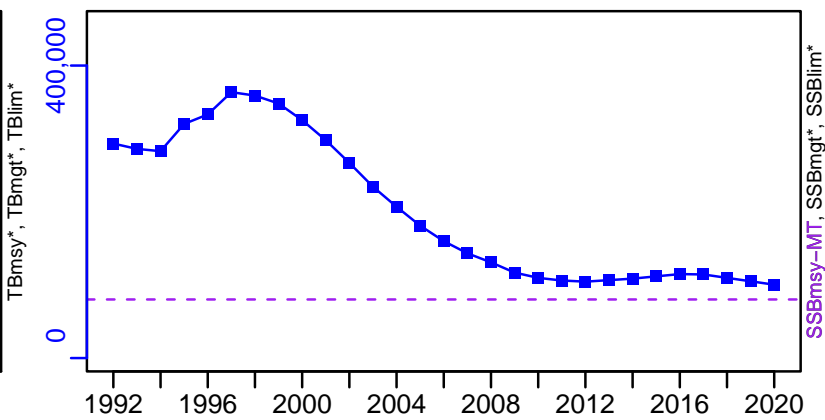
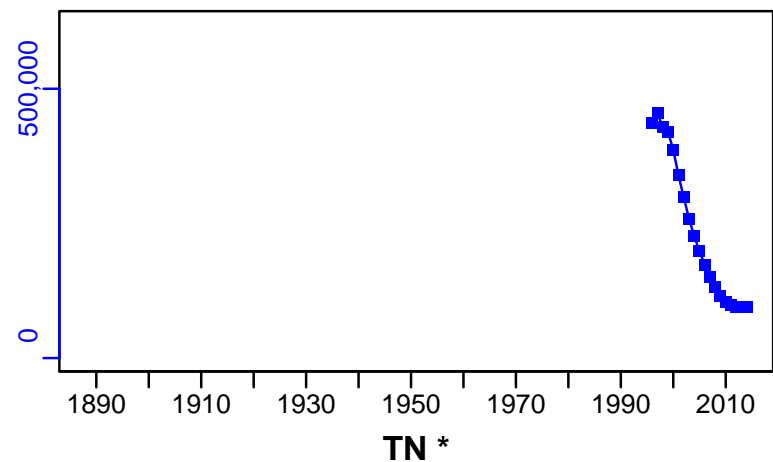


◆ Start Year ◆ End Year * No Data

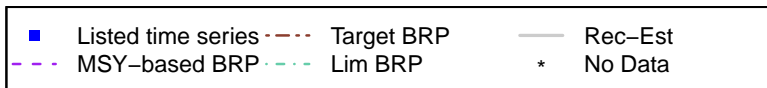
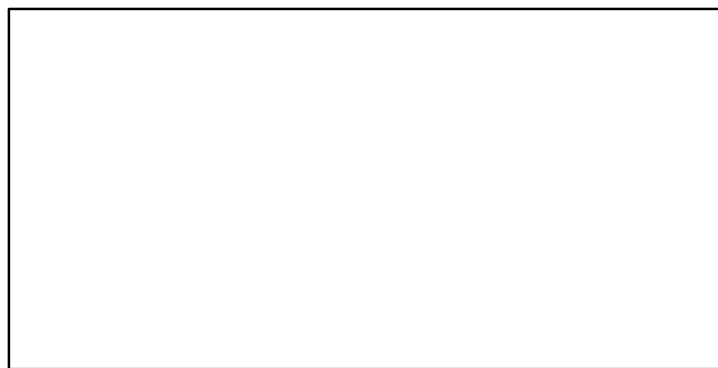
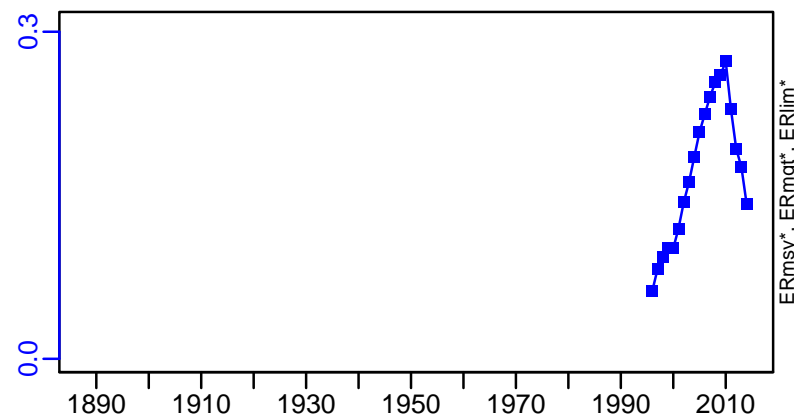
Pacific halibut North Pacific [PHALNPAC]

TB-MT (1888-2014-HIVELY)

SSB-MT (1992-2020-SISIMP2022)

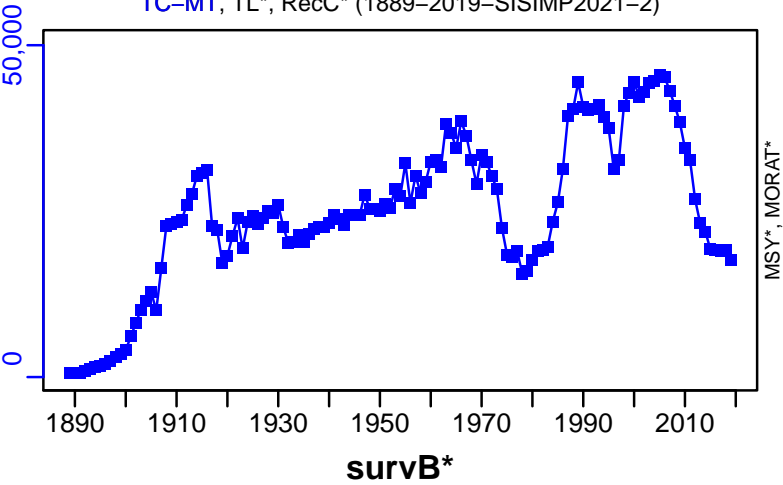


ER-calc-ratio (1888-2014-HIVELY)



Pacific halibut North Pacific [PHALNPAC]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

Metadata	
Scientific Name	Cleisthenes herzensteini
Current Assess ID	FAFRFJ-PHFLOUNNHOKK-1985-2013-JPNIMP2016
Area	North coast of Hokkaido
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



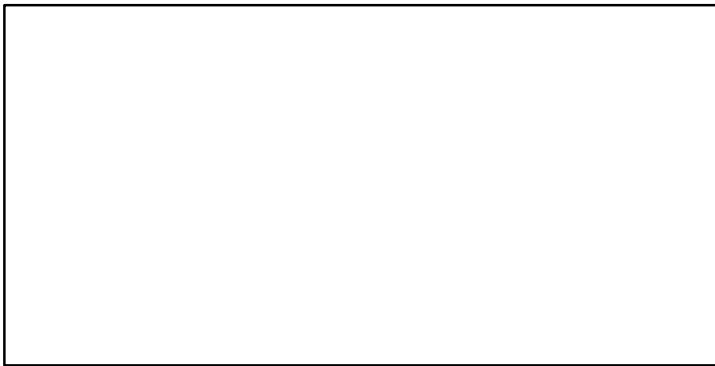
Production*



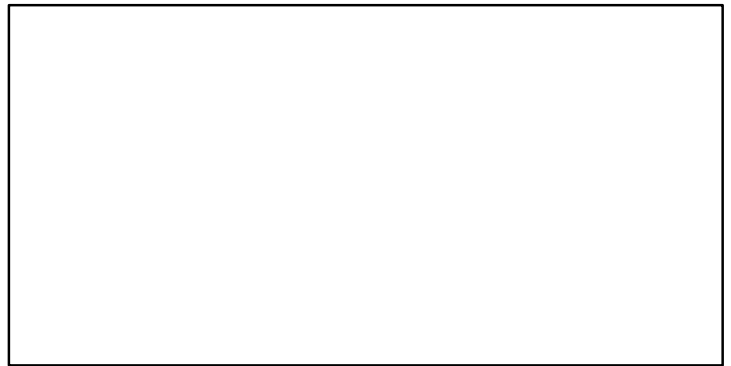
◆ Start Year ◆ End Year * No Data

Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

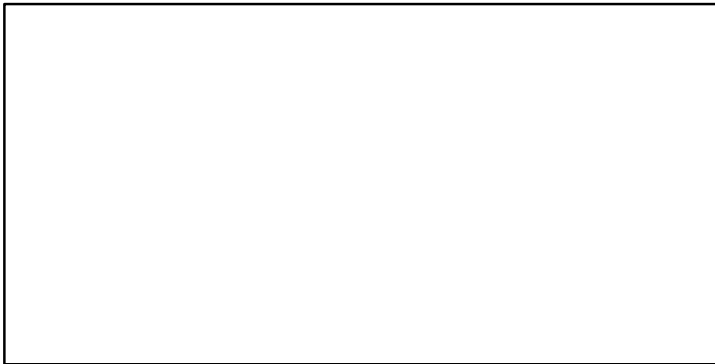
TB*



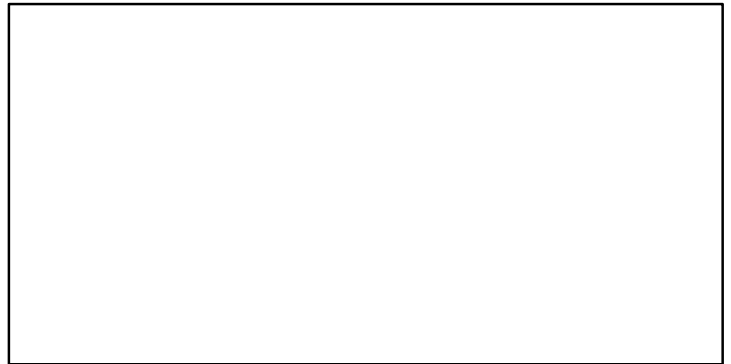
SSB*



TN *



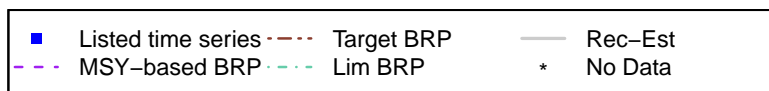
F*



ER*



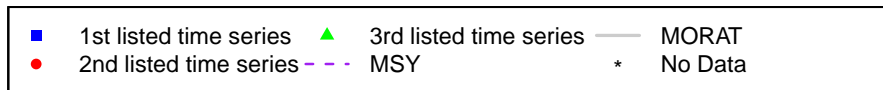
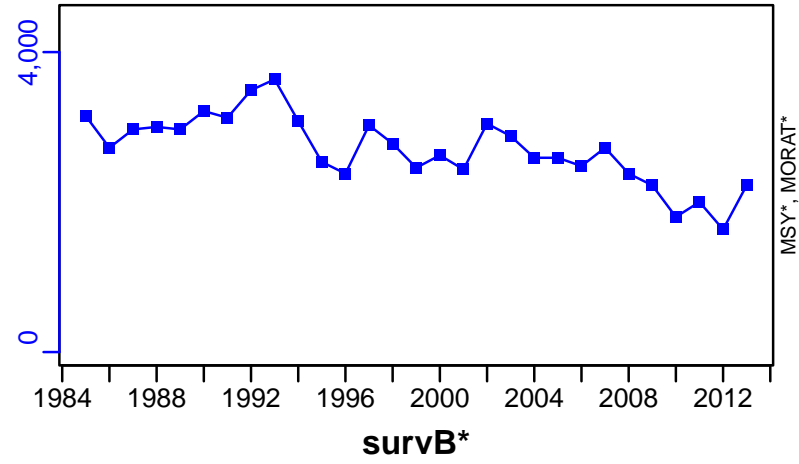
Recruits*



Pointhead flounder North coast of Hokkaido [PHFLOUNNHOKK]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Pointhead flounder Sea of Japan [PHFLOUNSOJ]

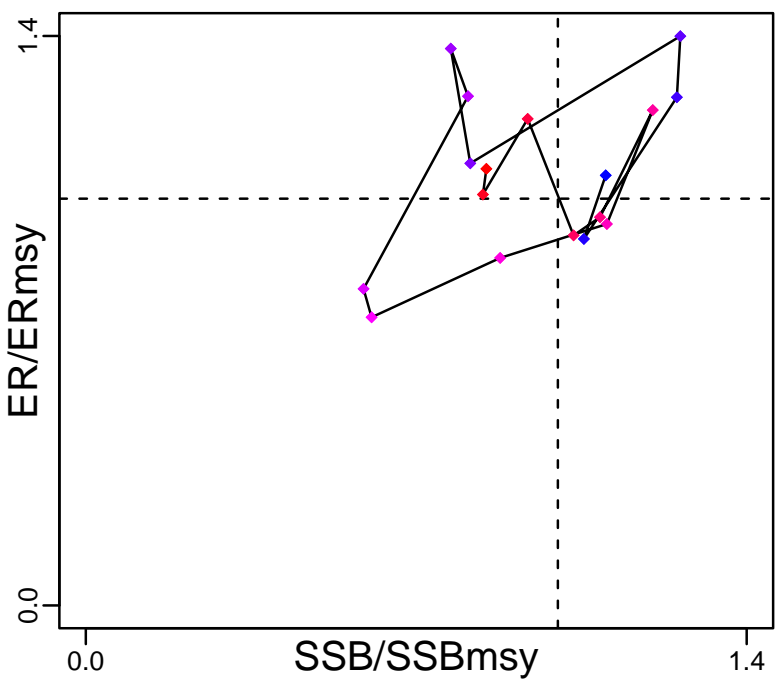
Metadata	
Scientific Name	Cleisthenes herzensteini
Current Assess ID	FAFRFJ-PHFLOUNSOJ-1966-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	9285
SSBmsy	SSBmsy-MT	2013	4113
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.319
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	2962
M	M-1/yr	2013	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

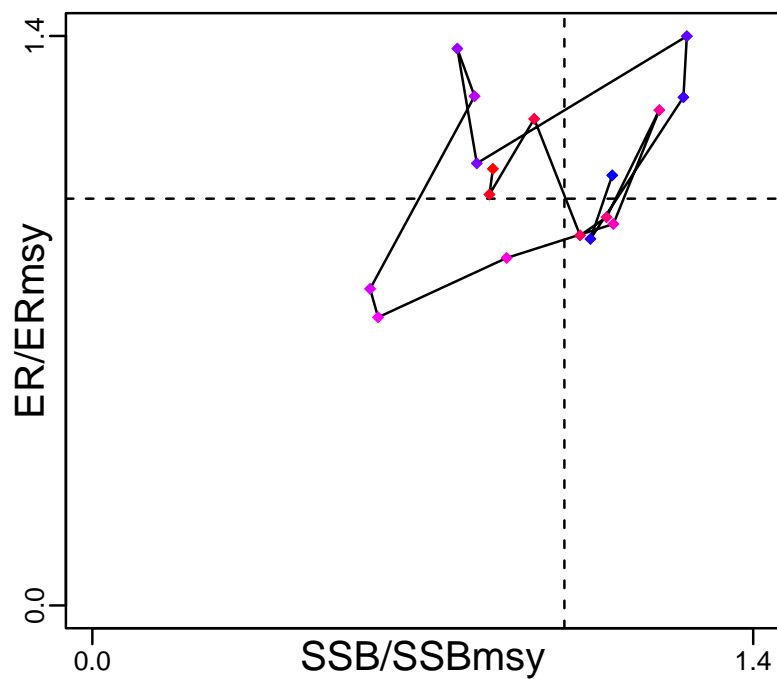
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	8850	-	1
SSB	SSB-MT	2013	3490	Both	3
TN	-	-	-	-	-
R	R-E00	2013	4.1×10^7	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.342	-	-
TC	TC-MT	2013	3030		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.953		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.849		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.073		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pointhead flounder Sea of Japan [PHFLOUNSOJ]

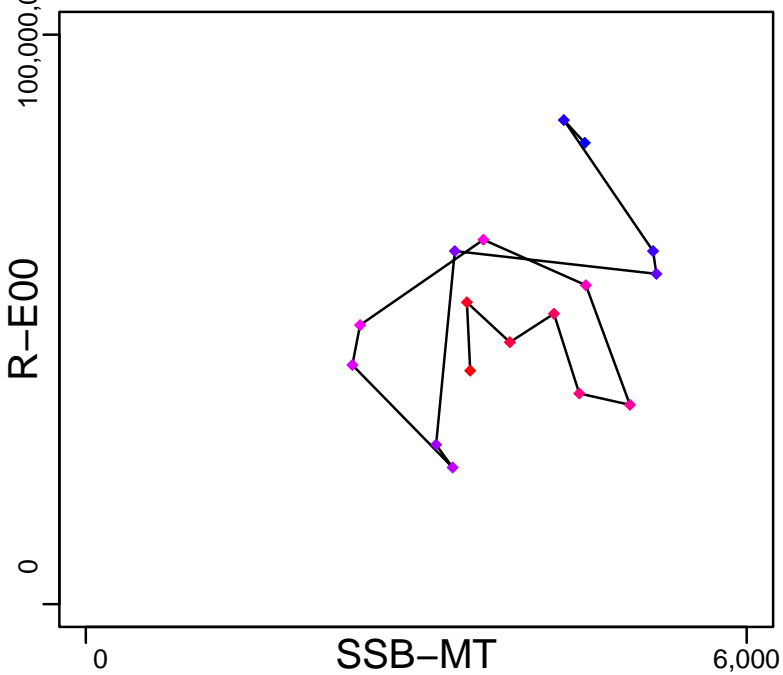
Kobe MSYpref (1966–2013–JPNIMP2016)



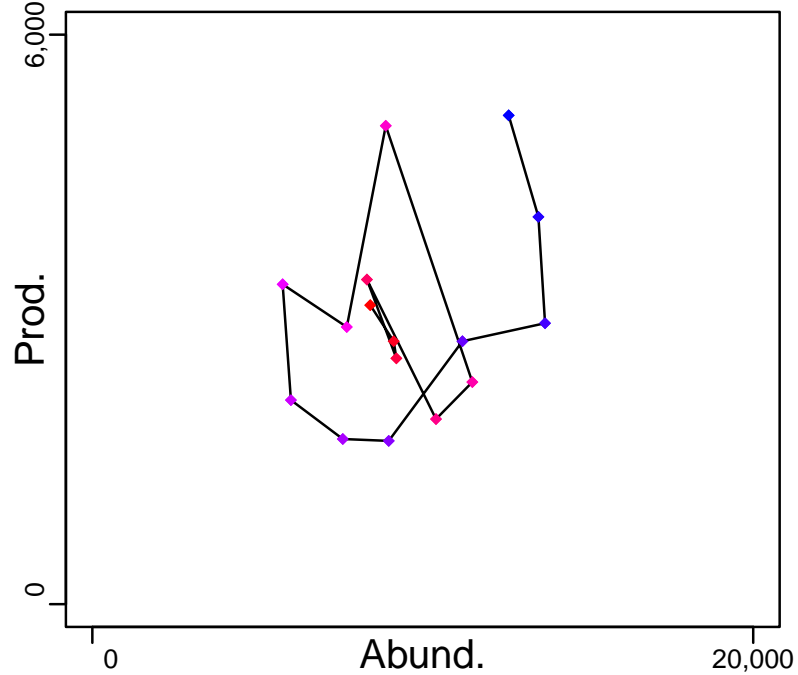
Kobe MGTpref (1966–2013–JPNIMP2016)



Spawner Recruit (1966–2013–JPNIMP2016)



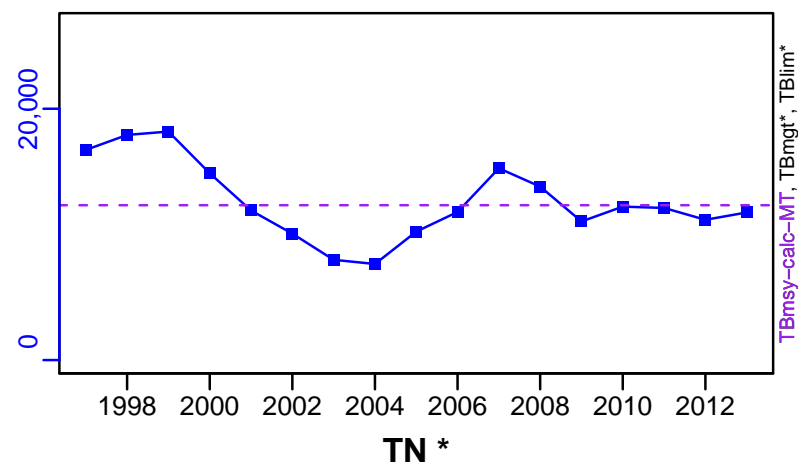
Production (1966–2013–JPNIMP2016)



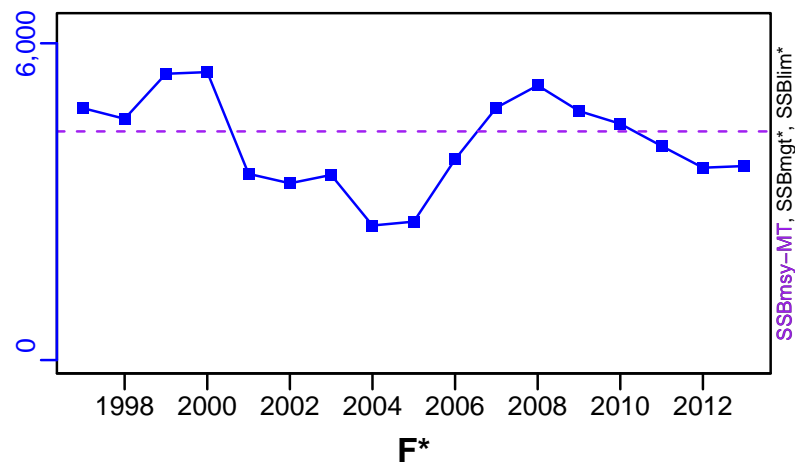
◆ Start Year ◆ End Year * No Data

Pointhead flounder Sea of Japan [PHFLOUNSOJ]

TB-MT (1966–2013–JPNIMP2016)



SSB-MT (1966–2013–JPNIMP2016)



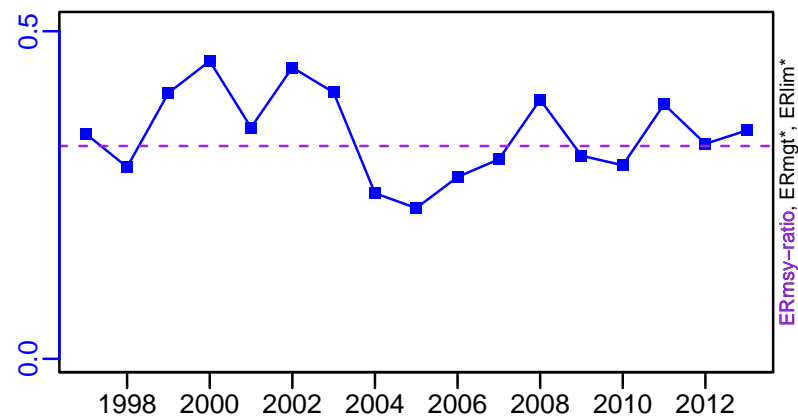
TN *



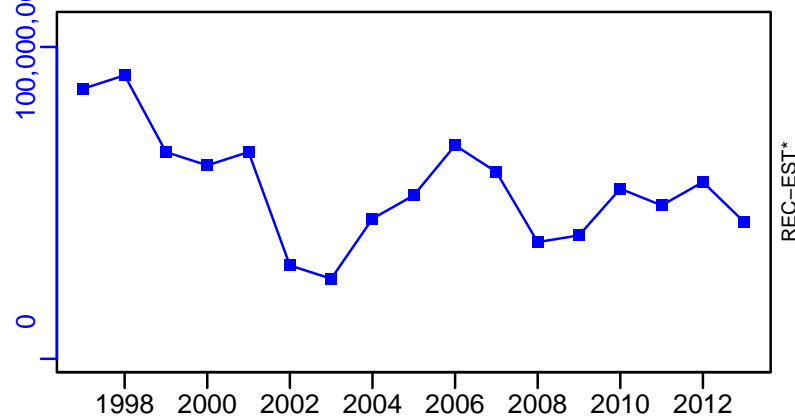
F*



ER-calc-ratio (1966–2013–JPNIMP2016)

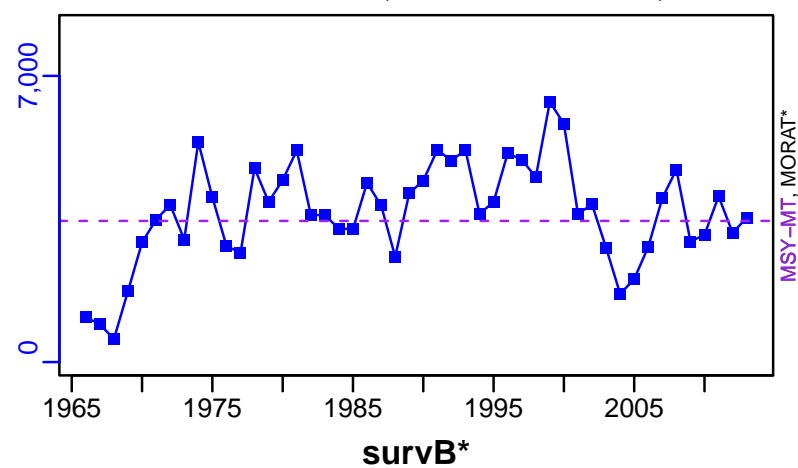


R-E00 (1966–2013–JPNIMP2016)



Pointhead flounder Sea of Japan [PHFLOUNSOJ]

TC-MT, TL*, RecC* (1966–2013–JPNIMP2016)



TAC*, Cpair*, Cadv*



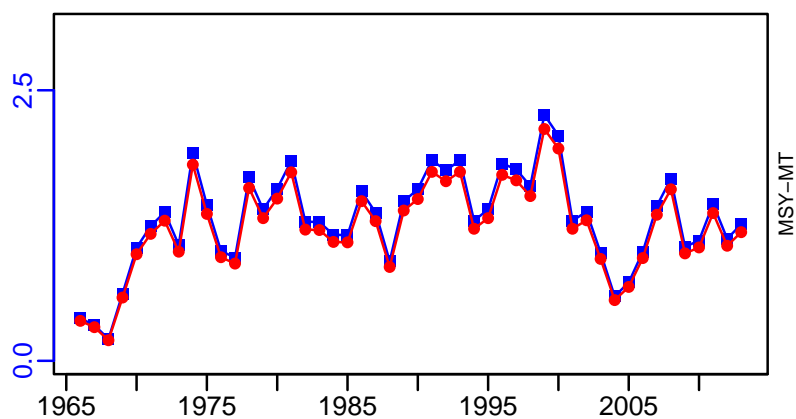
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1966–2013–JPNIMP2016)



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

European plaice Subdivisions 21-23 [PLAIC2123]

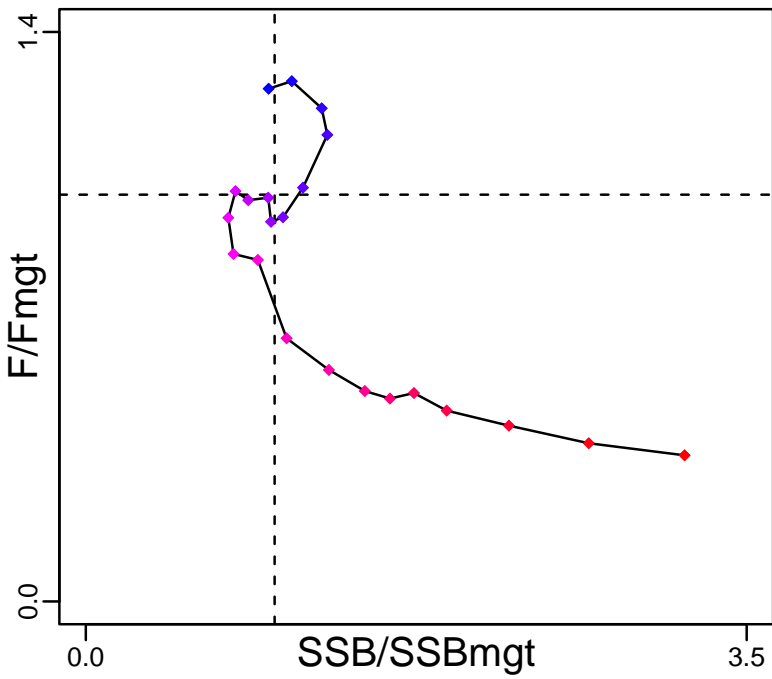
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2123-1999-2021-ICESIMP2021-2
Area	Subdivisions 21-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	4730
Fmgt	Fmgt-1/yr	2021	0.81
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	3640
Flim	Flim-1/yr	2021	1
ERlim	-	-	-

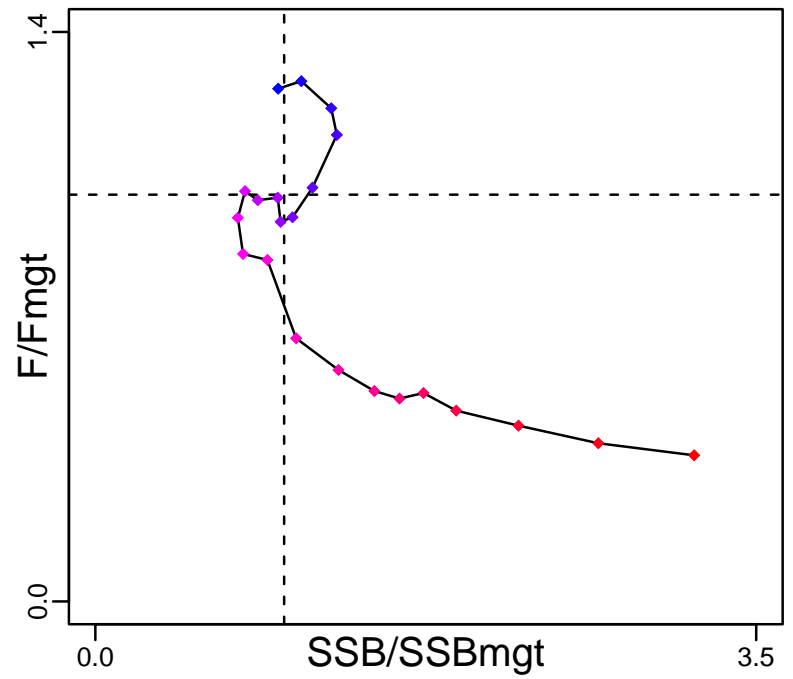
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	14,245	-	-
SSB	SSB-MT	2021	18,900	-	-
TN	-	-	-	-	-
R	R-E00	2021	29,400	-	1
F	F-1/yr	2021	0.291	-	-
ER	ER-calc-ratio	2019	0.243	-	-
TC	TC-MT	2021	4470		
TL	TL-MT	2021	3410		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.219		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	3.996		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.359		
ER/ERmgt	-	-	-		

European plaice Subdivisions 21–23 [PLAIC2123]

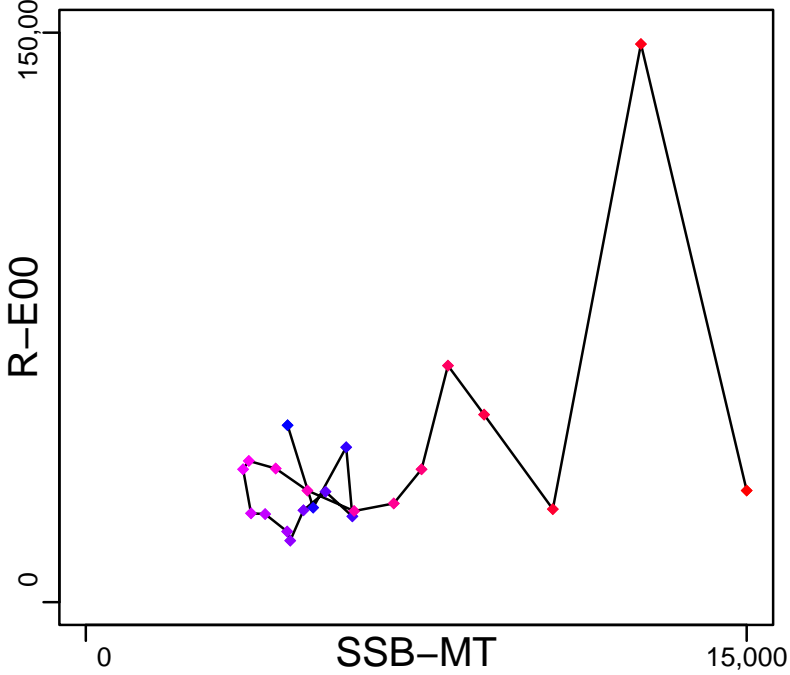
Kobe MSYpref (1999–2021–ICESIMP2021–2)



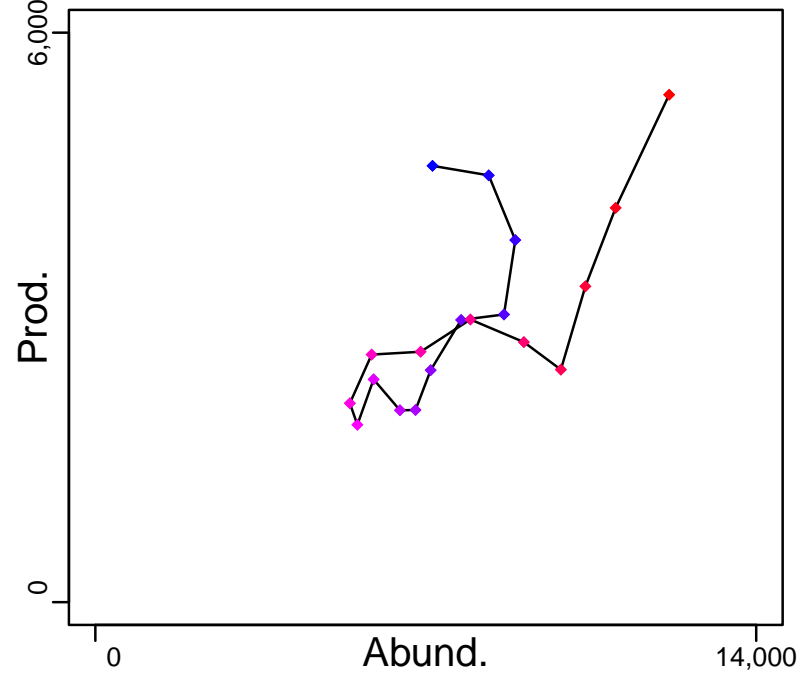
Kobe MGTpref (1999–2021–ICESIMP2021–2)



Spawner Recruit (1999–2021–ICESIMP2021–2)



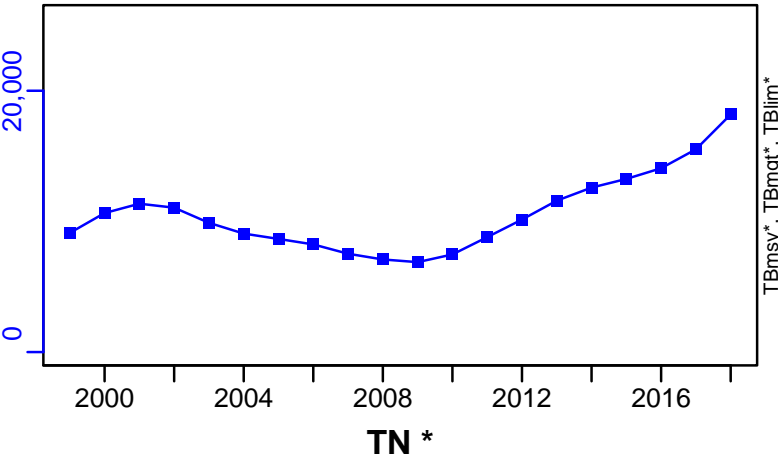
Production (1998–2019–ICESIMP2021)



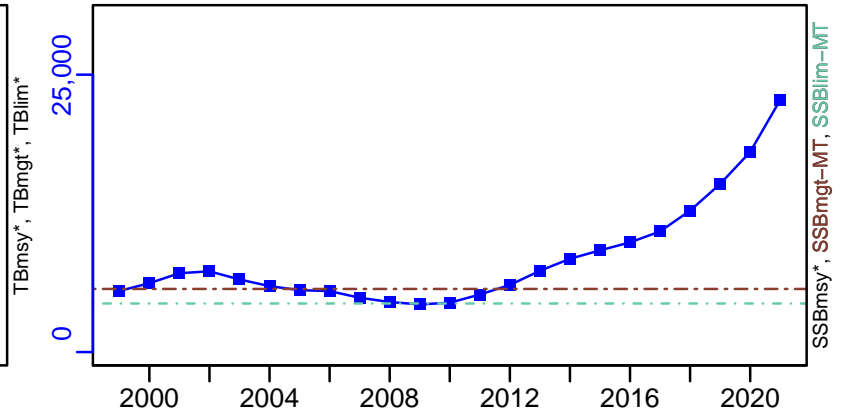
◆ Start Year ◆ End Year * No Data

European plaice Subdivisions 21–23 [PLAIC2123]

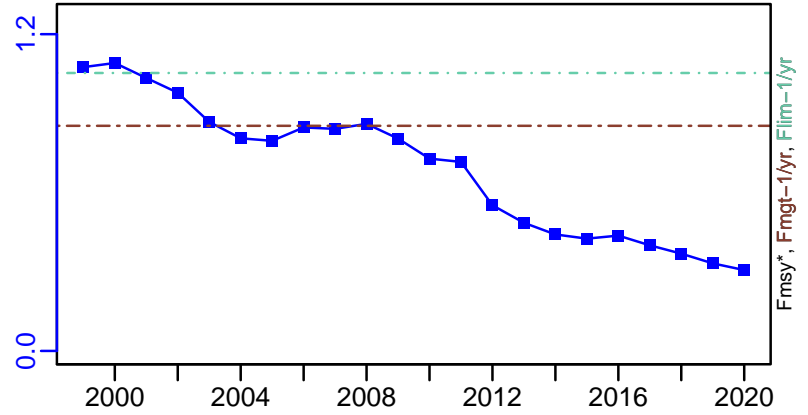
TB-MT (1998–2019–ICESIMP2021)



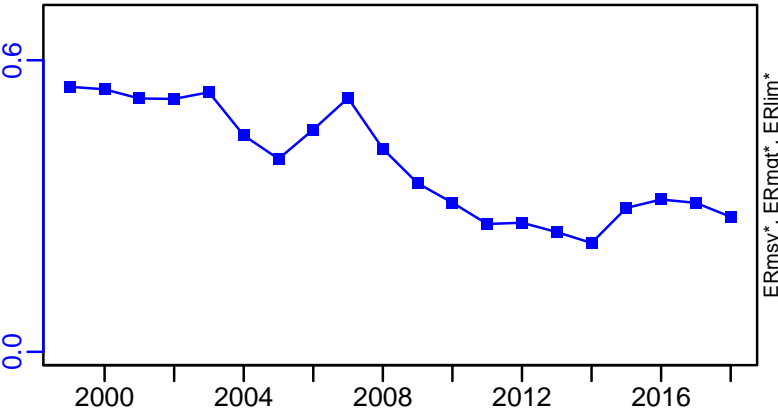
SSB-MT (1999–2021–ICESIMP2021–2)



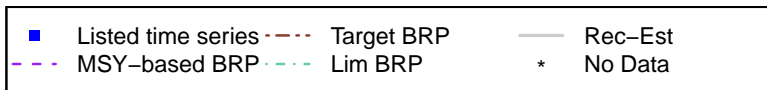
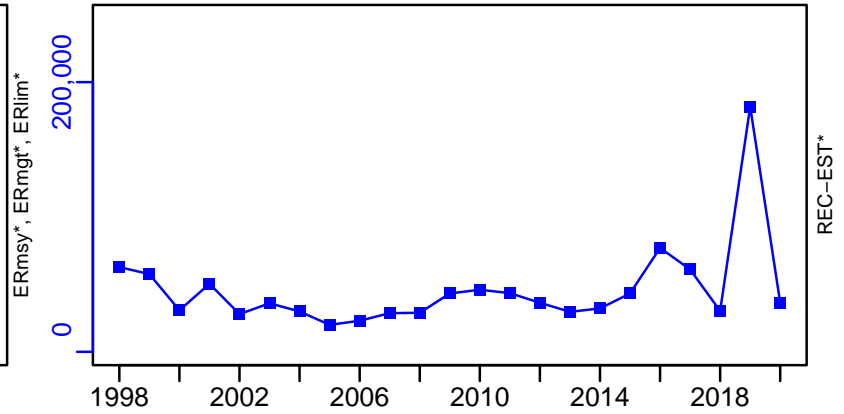
F-1/yr (1999–2021–ICESIMP2021–2)



ER-calc-ratio (1998–2019–ICESIMP2021)

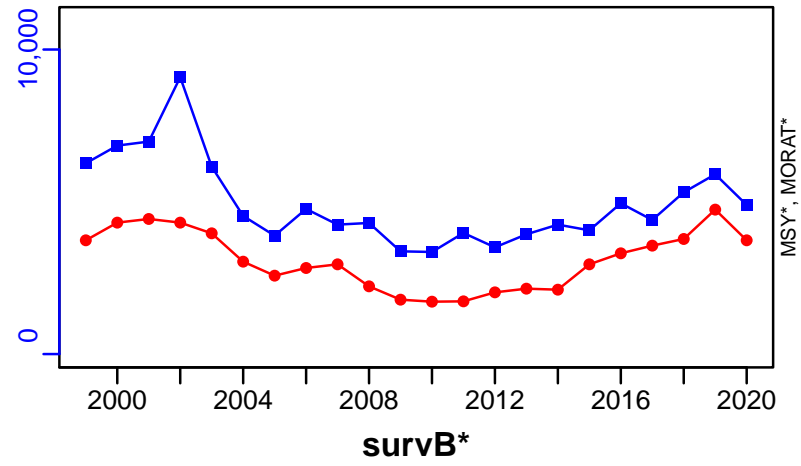


R-E00 (1999–2021–ICESIMP2021–2)



European plaice Subdivisions 21–23 [PLAIC2123]

TC-MT, TL-MT, RecC* (1999–2021–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



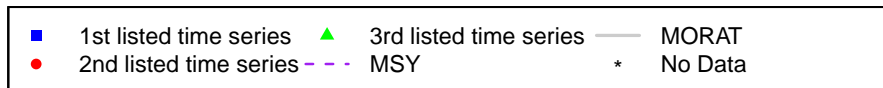
CPUE*



EFFORT*



CdivMSY*



European plaice Subdivisions 24-32 [PLAIC2432]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2432-2002-2020-ICESIMP2021-2
Area	Subdivisions 24-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2019	3.224	-	-
SSB	SSB-relative	2020	2.39	-	-
TN	-	-	-	-	-
R	R-relative	2020	1.34	-	-
F	F-relative	2019	0.541	-	2 to 5
ER	-	-	-	-	-
TC	TC-MT	2020	2360		
TL	TL-MT	2020	1740		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

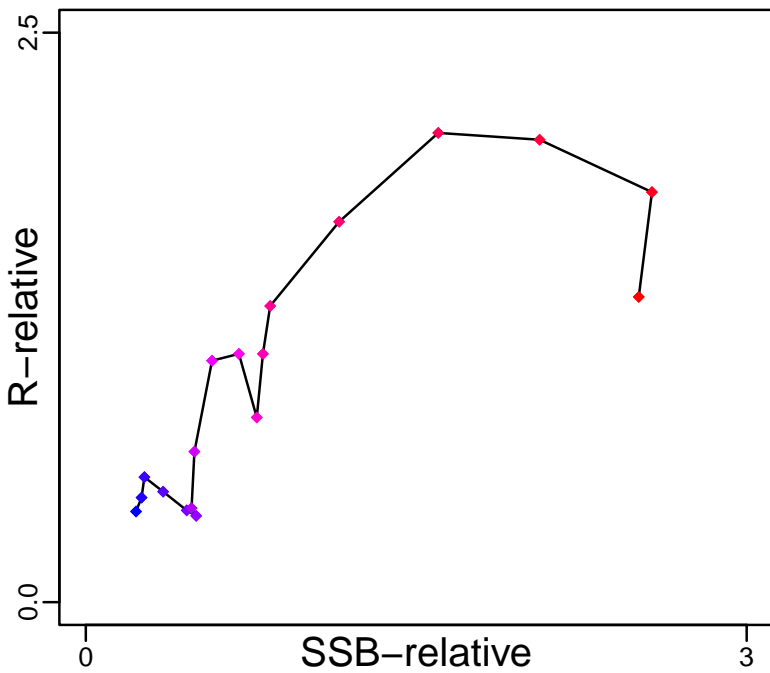
Kobe MSY*



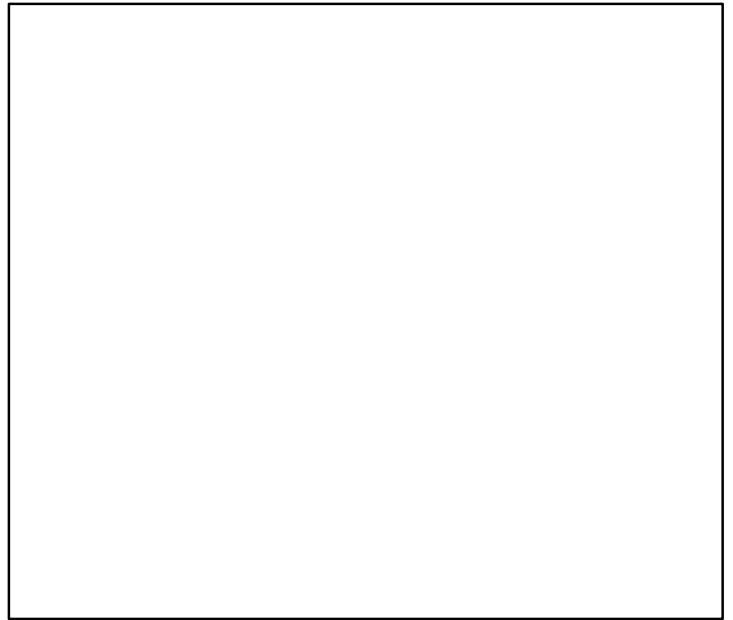
Kobe MGT*



Spawner Recruit (2002–2020–ICESIMP2021–2)



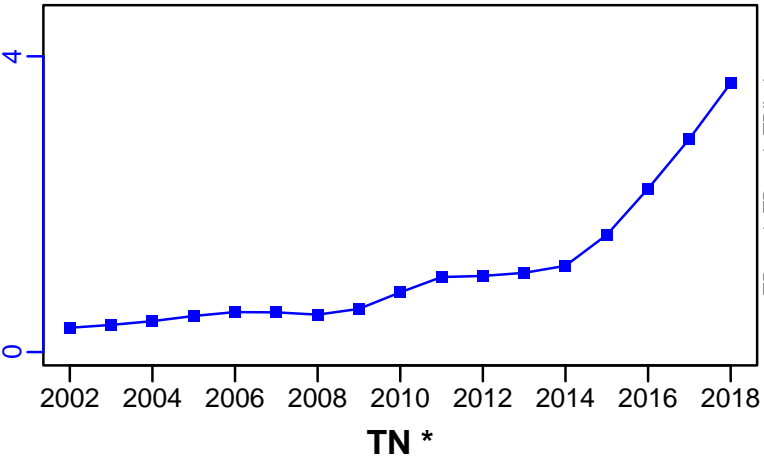
Production*



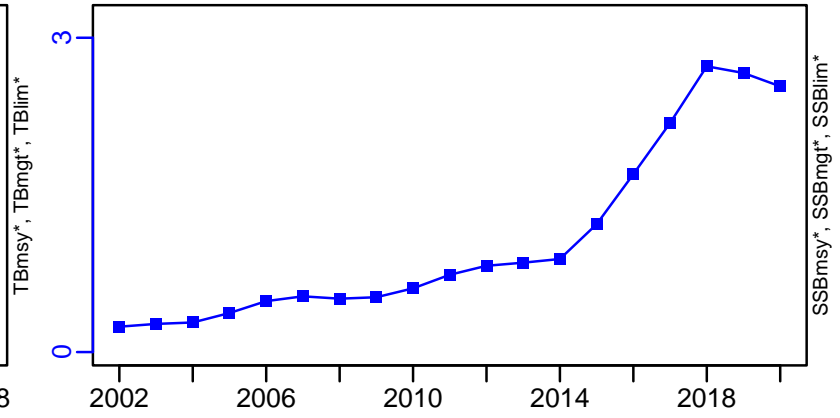
◆ Start Year ◆ End Year * No Data

European plaice Subdivisions 24–32 [PLAIC2432]

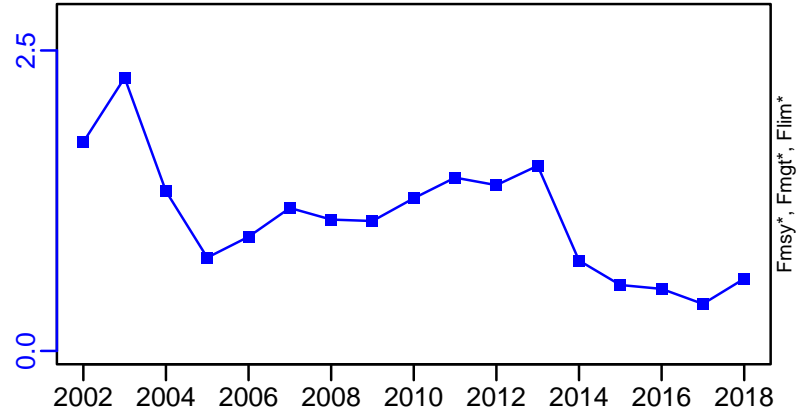
TB-relative (2001–2019–ICESIMP2021)



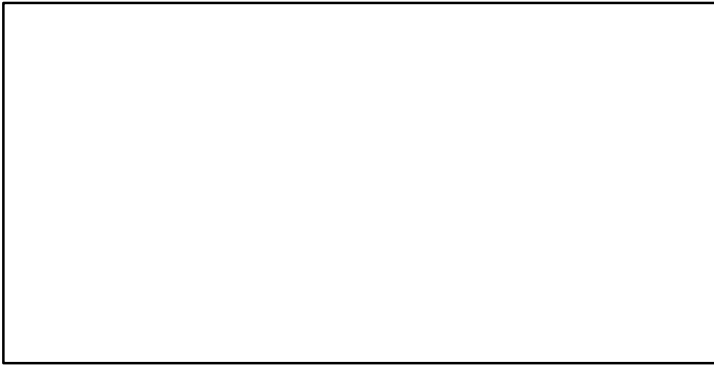
SSB-relative (2002–2020–ICESIMP2021–2)



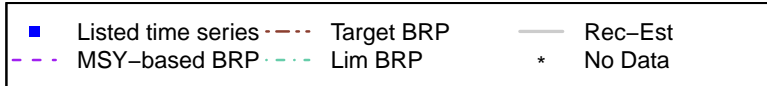
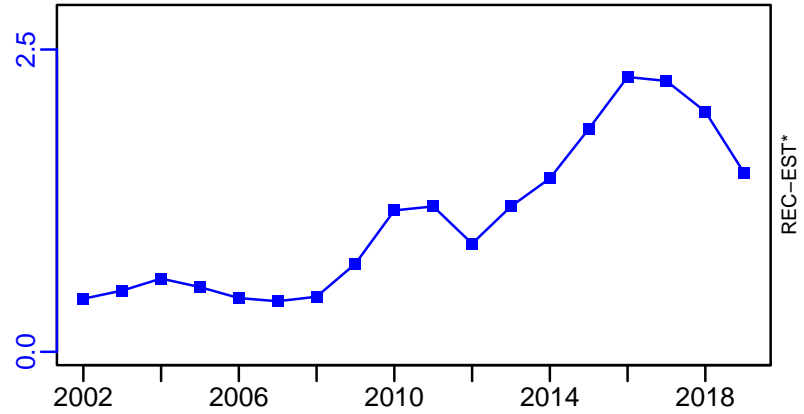
F-relative (2001–2019–ICESIMP2021)



ER*

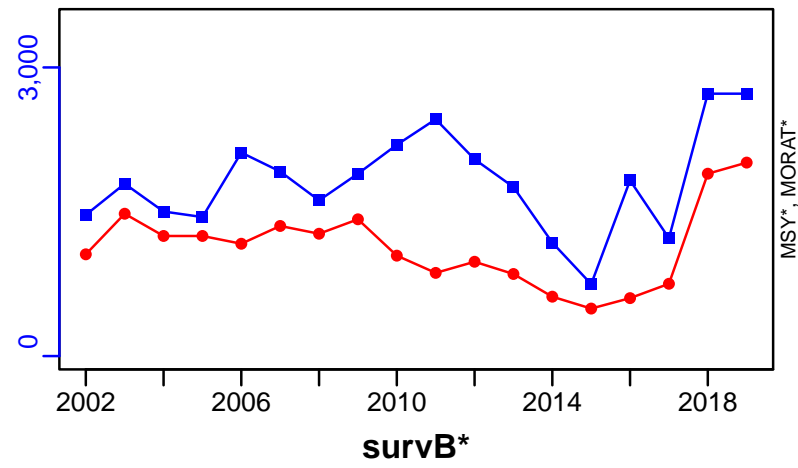


R-relative (2002–2020–ICESIMP2021–2)



European plaice Subdivisions 24–32 [PLAIC2432]

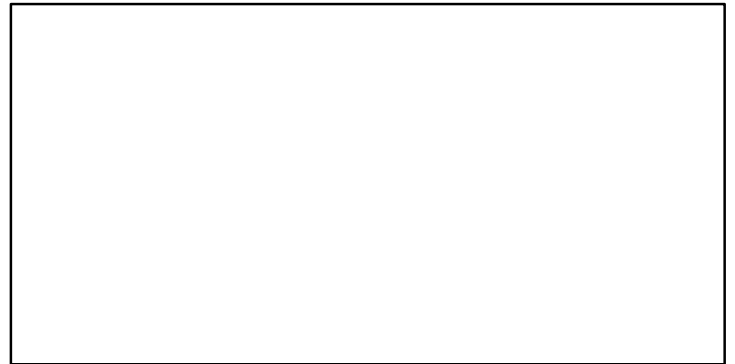
TC-MT, TL-MT, RecC* (2002–2020–ICESIMP2021–2)



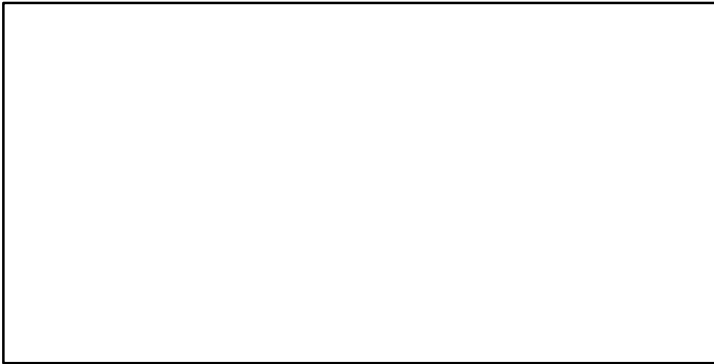
TAC*, Cpair*, Cadv*



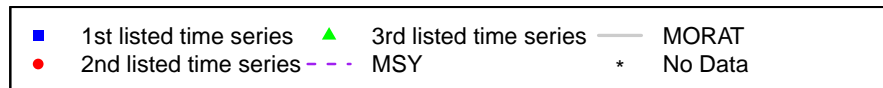
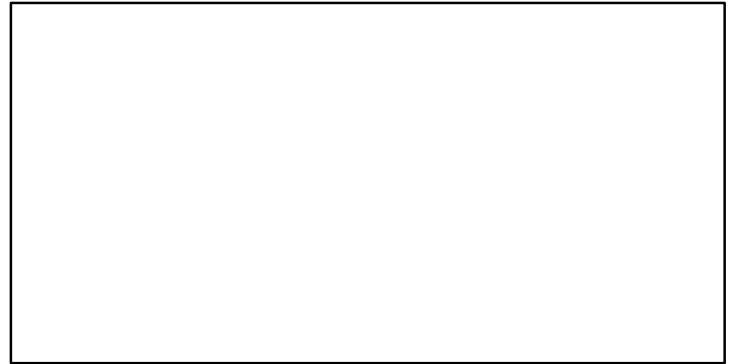
CPUE*



EFFORT*



CdivMSY*



European plaice Eastern English Channel [PLAIC7d]

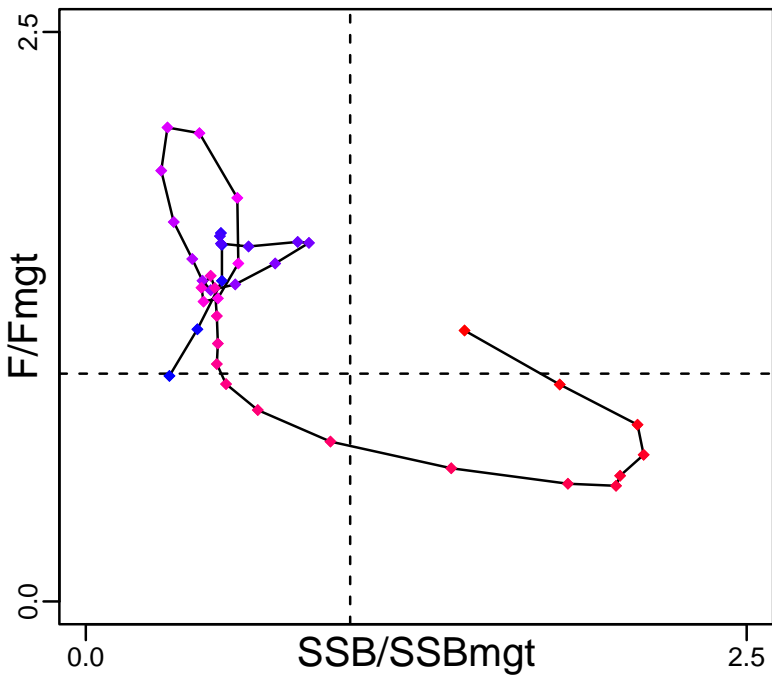
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAIC7d-1980-2021-ICESIMP2021-2
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.25
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	25,826
Fmgt	Fmgt-1/yr	2021	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	18,400
Flim	Flim-1/yr	2021	0.5
ERlim	-	-	-

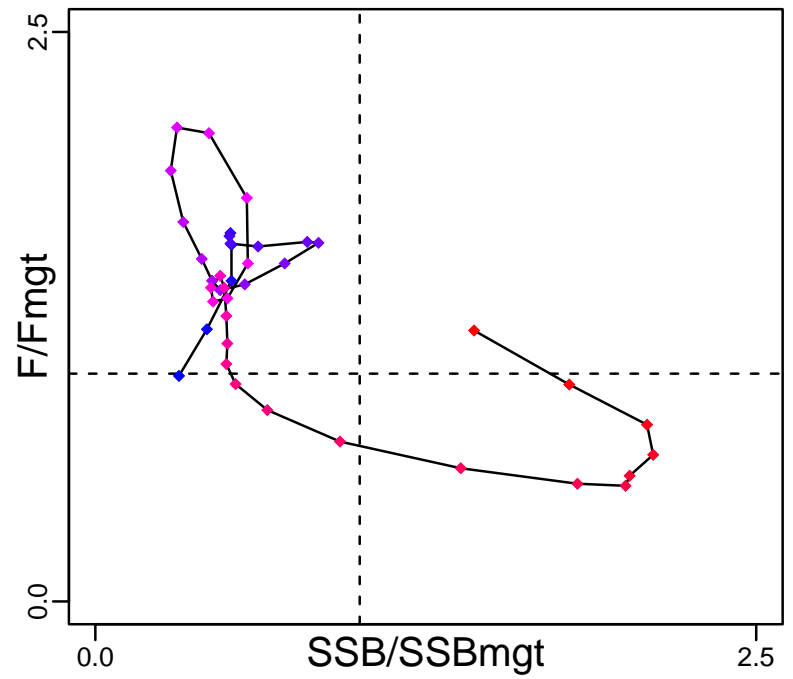
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	9230	Both	1+
SSB	SSB-MT	2021	39,900	-	-
TN	-	-	-	-	-
R	R-E00	2021	74,200	-	1
F	F-1/yr	2021	0.217	-	-
ER	ER-ratio	2010	0.344	-	-
TC	TC-MT	2021	3630		
TL	TL-MT	2021	1730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.867		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.502		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.867		
ER/ERmgt	-	-	-		

European plaice Eastern English Channel [PLAIC7d]

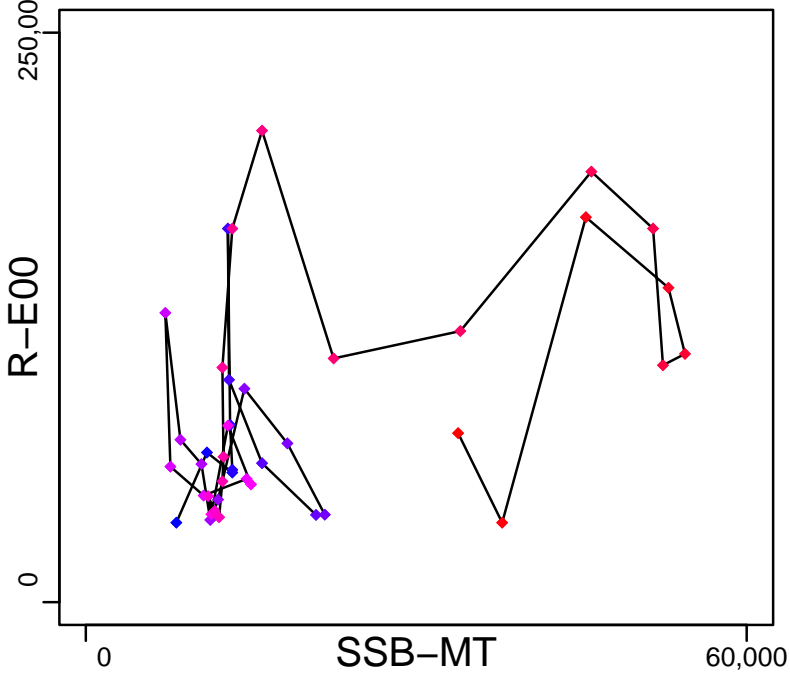
Kobe MSYpref (1980–2020–ICESIMP2021–2)



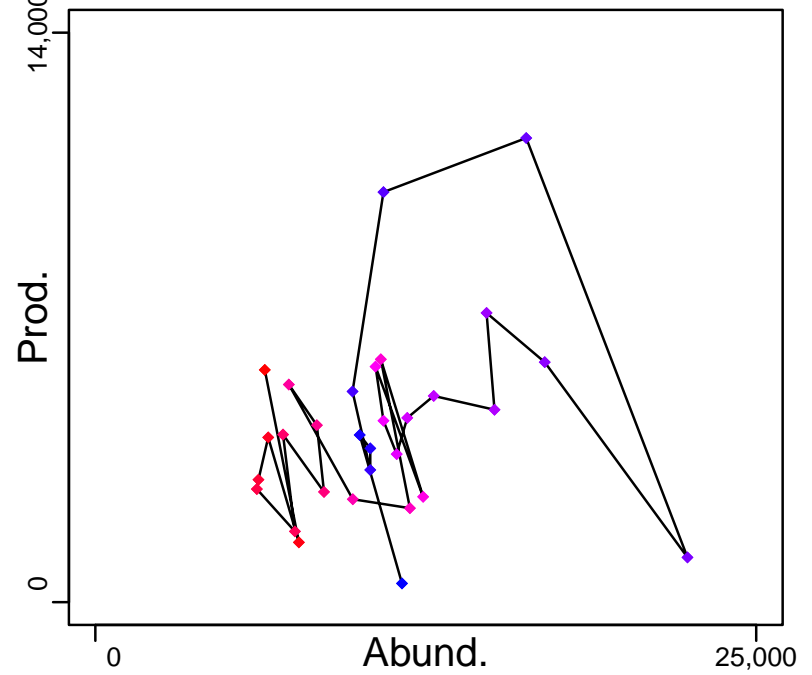
Kobe MGTpref (1980–2020–ICESIMP2021–2)



Spawner Recruit (1980–2021–ICESIMP2021–2)



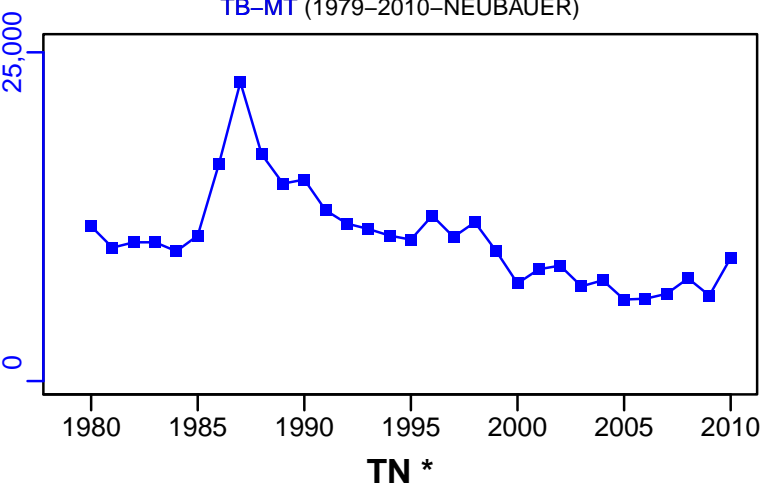
Production (1979–2010–NEUBAUER)



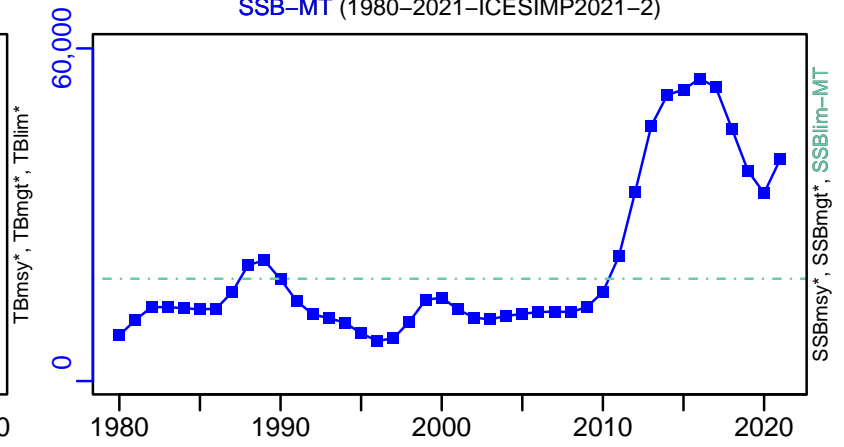
◆ Start Year ◆ End Year * No Data

European plaice Eastern English Channel [PLAIC7d]

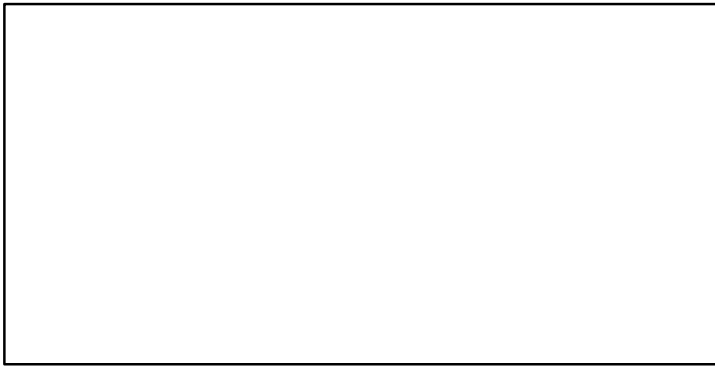
TB-MT (1979-2010-NEUBAUER)



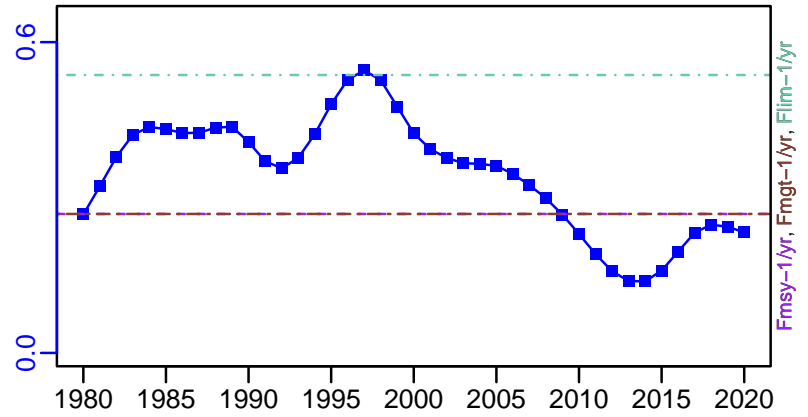
SSB-MT (1980-2021-ICESIMP2021-2)



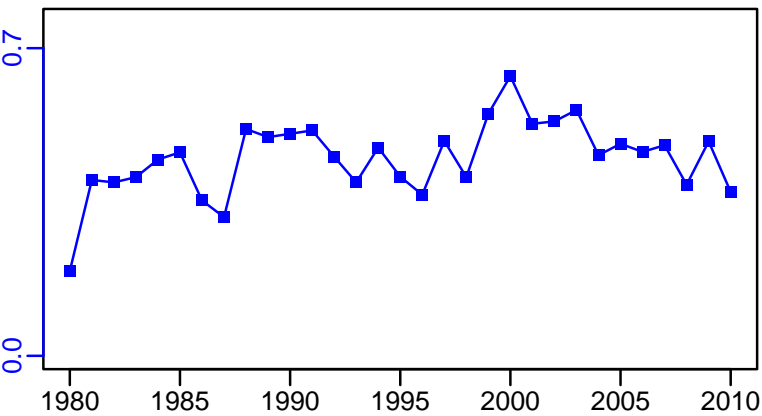
TN *



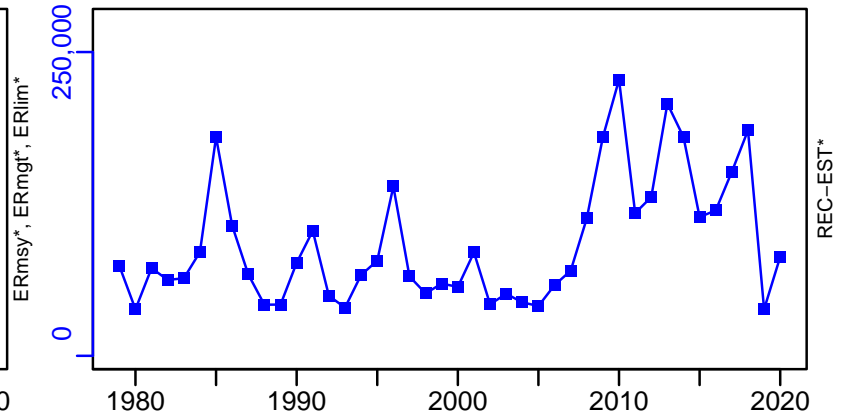
F-1/yr (1980-2021-ICESIMP2021-2)



ER-ratio (1979-2010-NEUBAUER)

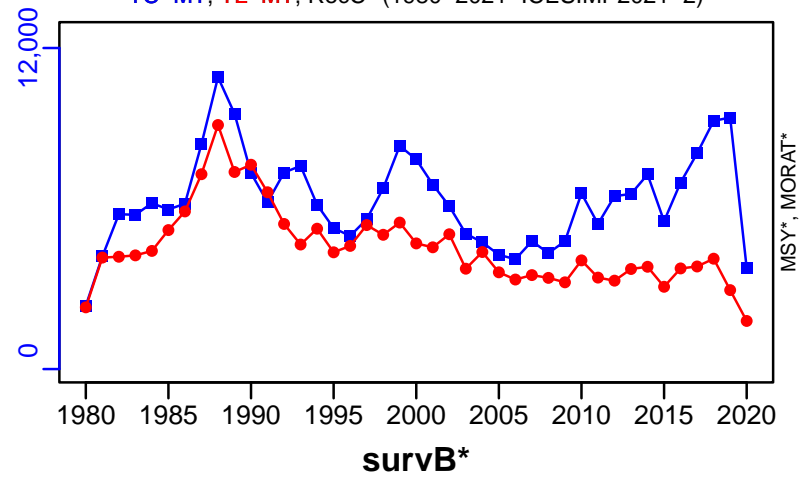


R-E00 (1980-2021-ICESIMP2021-2)



European plaice Eastern English Channel [PLAIC7d]

TC-MT, TL-MT, RecC* (1980–2021–ICESIMP2021–2)



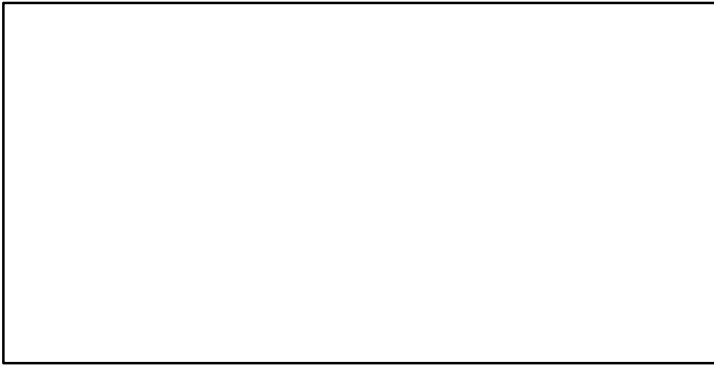
TAC*, Cpair*, Cadv*



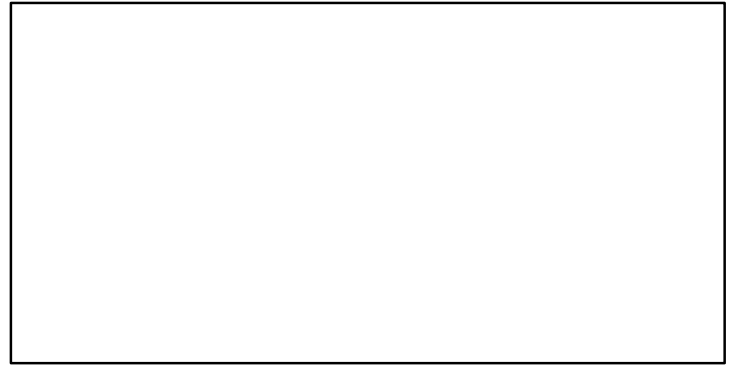
CPUE*



EFFORT*



CdivMSY*



■ 1st listed time series
 ▲ 3rd listed time series
 — MORAT

● 2nd listed time series
 - - MSY
 * No Data

European plaice Celtic Sea [PLAICCELT]

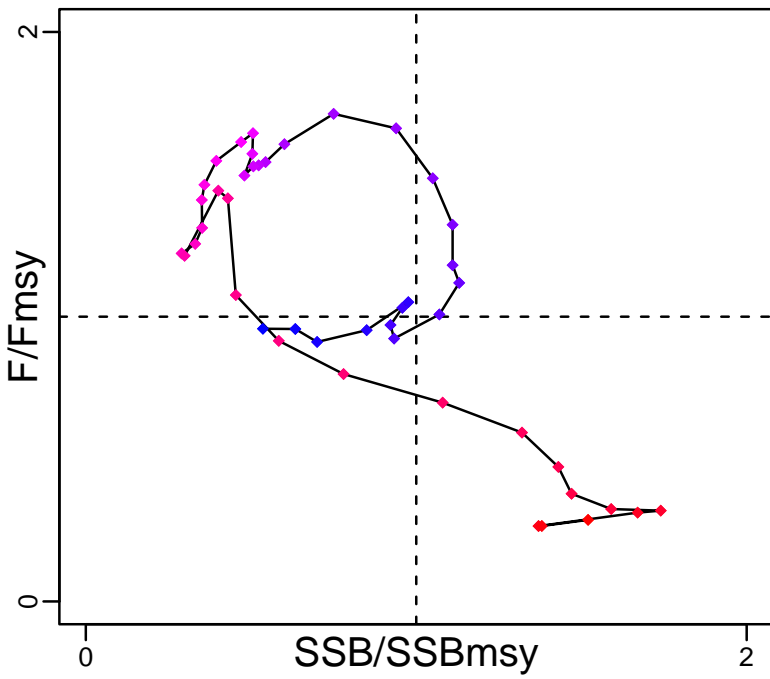
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICCELT-1977-2021-ICESIMP2021-2
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2017, 2019, 2020, 2021, 2016, 2014, 2016, 2010

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

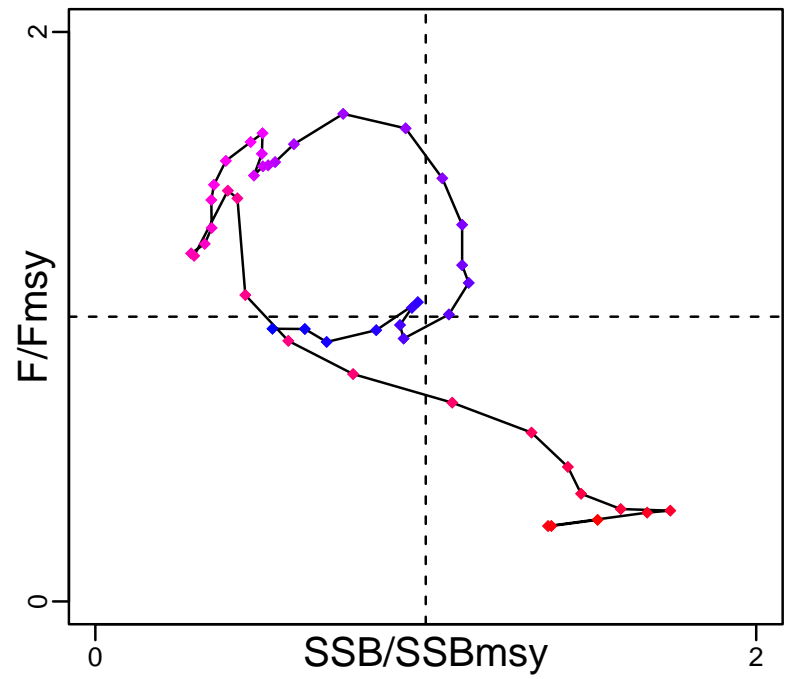
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	7515	-	-
SSB	SSB-relative	2014	1.33	Both	-
TN	-	-	-	-	-
R	R-relative	2014	0.393	-	1
F	F-relative	2014	1.29	-	3 to 6
ER	ER-calc-ratio	2019	0.117	-	-
TC	TC-MT	2021	893		
TL	TL-MT	2021	536		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.52		
F/Fmsy	FdivFmsy-dimensionless	2021	0.287		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European plaice Celtic Sea [PLAICCELT]

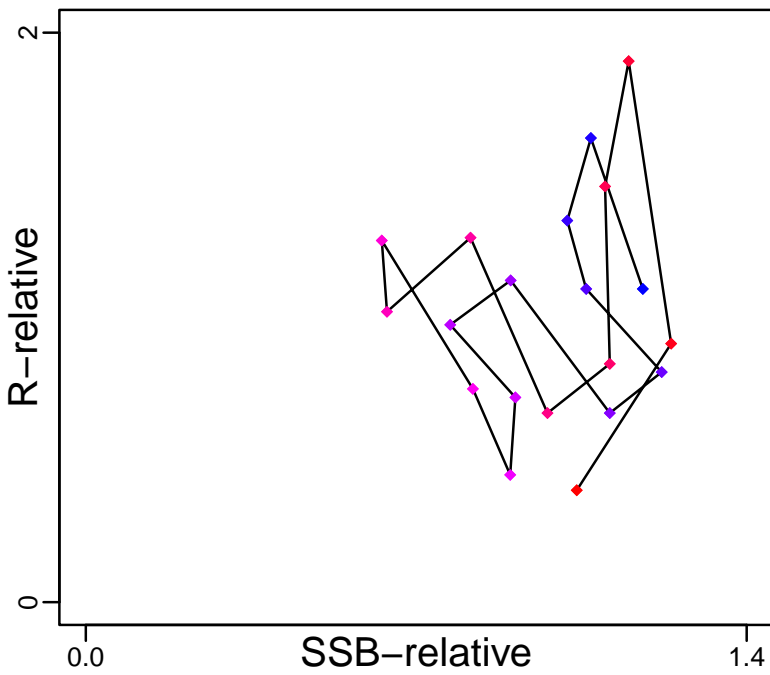
Kobe MSYpref (1977–2021–ICESIMP2021–2)



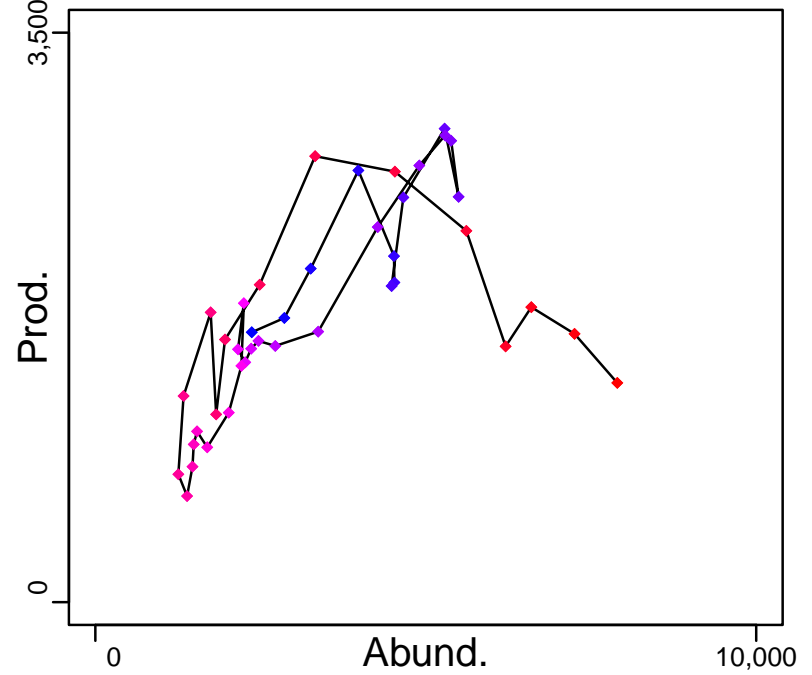
Kobe MGTpref (1977–2021–ICESIMP2021–2)



Spawner Recruit (1992–2014–ICESIMP2016)



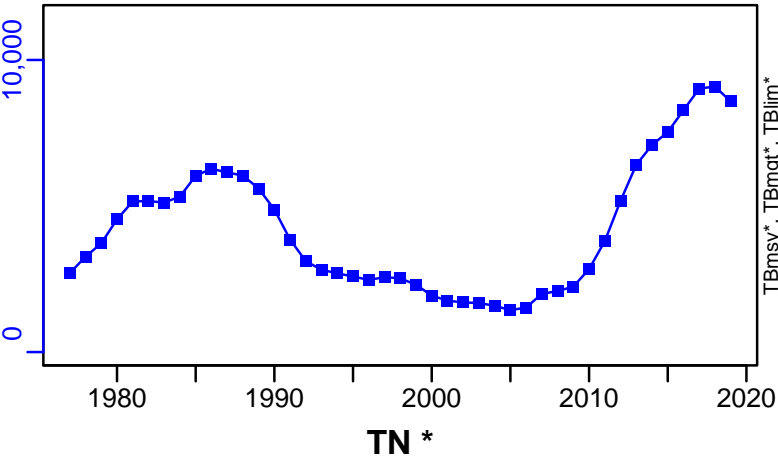
Production (1977–2019–ICESIMP2021)



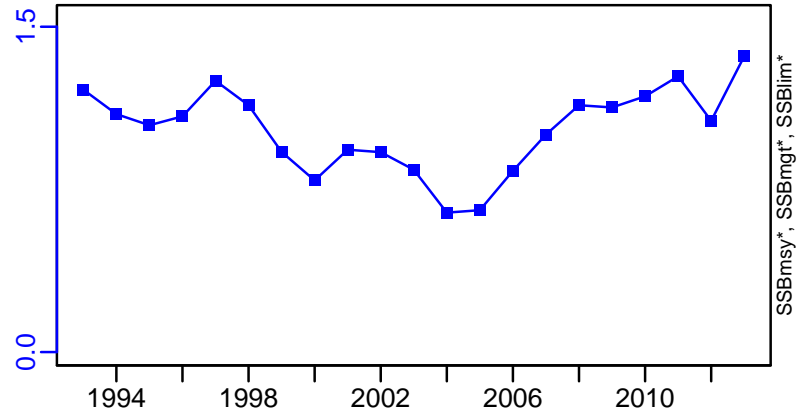
◆ Start Year ◆ End Year * No Data

European plaice Celtic Sea [PLAICCELT]

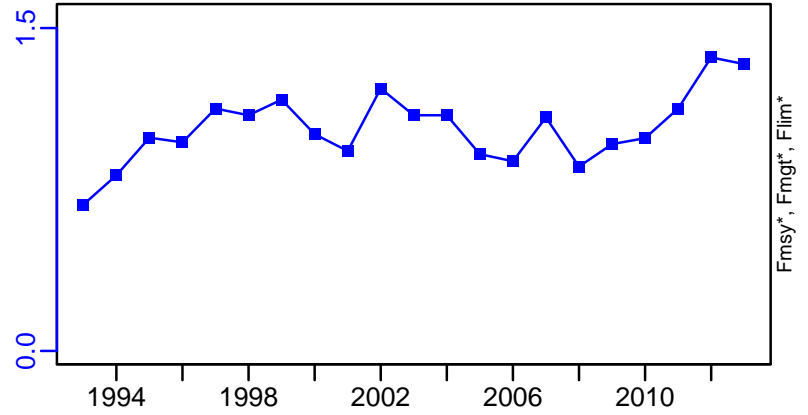
TB-MT (1977–2019–ICESIMP2021)



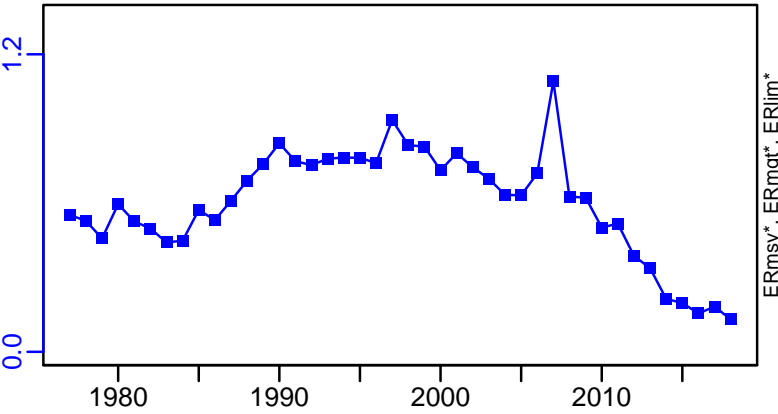
SSB-relative (1992–2014–ICESIMP2016)



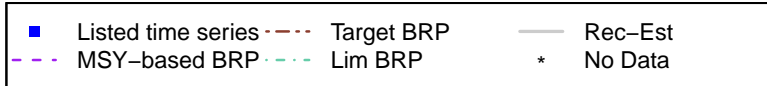
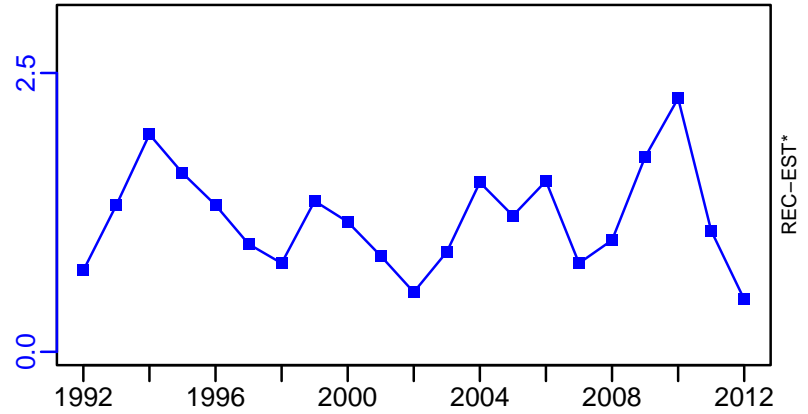
F-relative (1992–2014–ICESIMP2016)



ER-calc-ratio (1977–2019–ICESIMP2021)



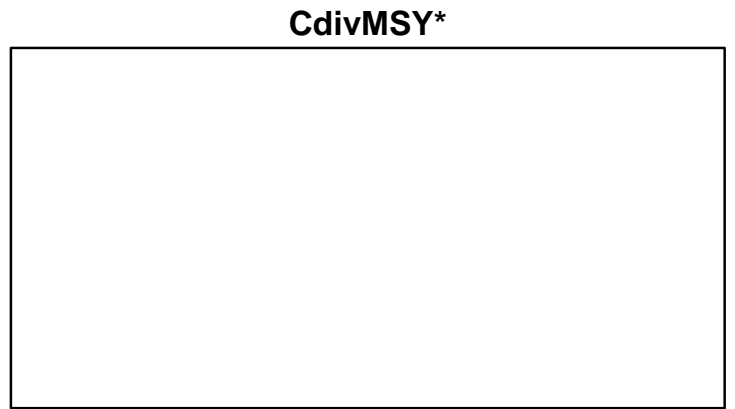
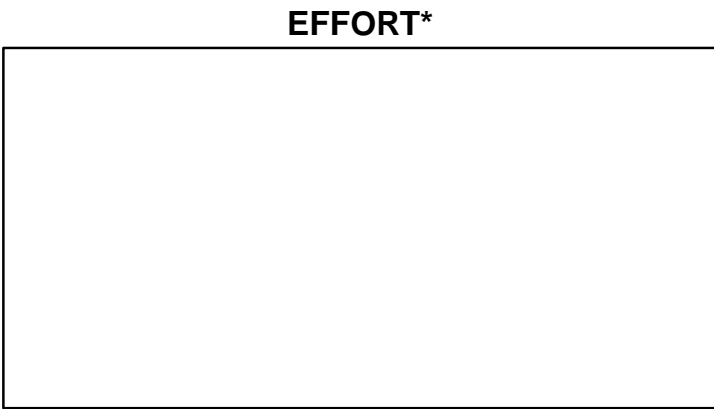
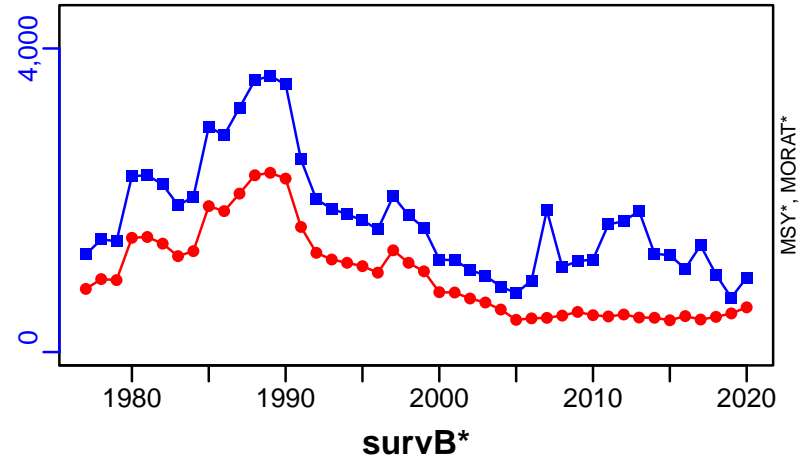
R-relative (1992–2014–ICESIMP2016)



European plaice Celtic Sea [PLAICCELT]

TC-MT, TL-MT, RecC* (1977-2021-ICESIMP2021-2)

TAC*, Cpair*, Cadv*



European plaice Western English Channel [PLAICECHW]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICECHW-1980-2020-ICESIMP2021-2
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2016, 2018, 2019, 2013, 2014, 2020, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2018	0.238
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2020	0.669
Fmgt	Fmgt-relative	2019	1.268
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	SSBlim-relative	2020	0.478
Flim	Flim-relative	2018	0.88
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2019	1.545	-	-
SSB	SSB-relative	2020	1.49	-	-
TN	-	-	-	-	-
R	R-relative	2020	0.9	-	2
F	F-relative	2019	0.613	-	3 to 6
ER	ER-calc-ratio	2014	0.227	-	-
TC	TC-MT	2016	2940		
TL	TL-MT	2020	1730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	1.142		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.142		
ER/ERmgt	-	-	-		

European plaice Western English Channel [PLAICECHW]

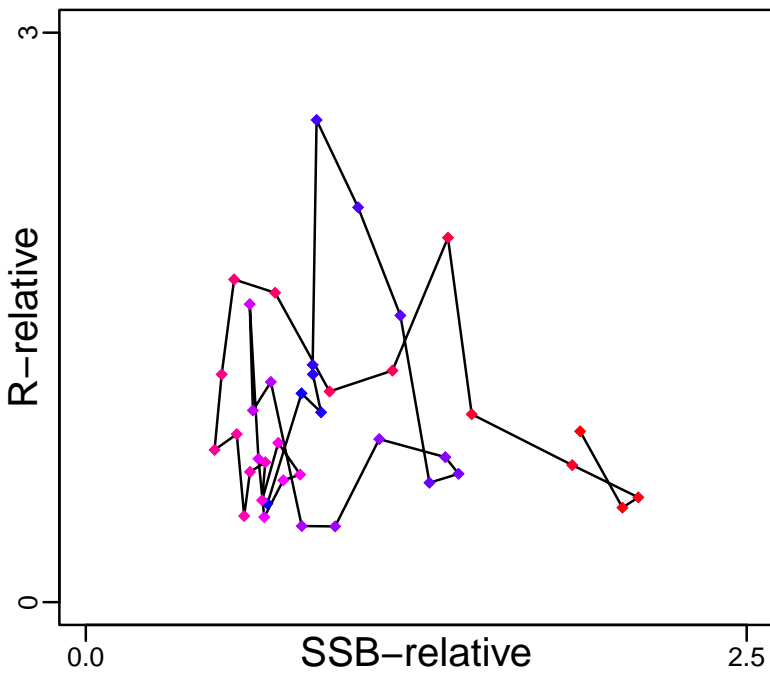
Kobe MSY*



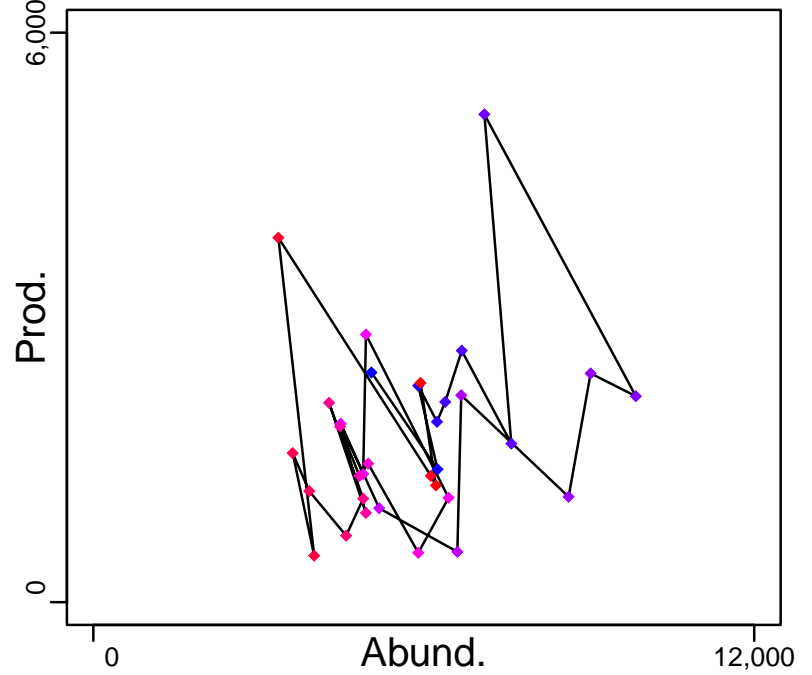
Kobe MGT*



Spawner Recruit (1980–2020–ICESIMP2021–2)



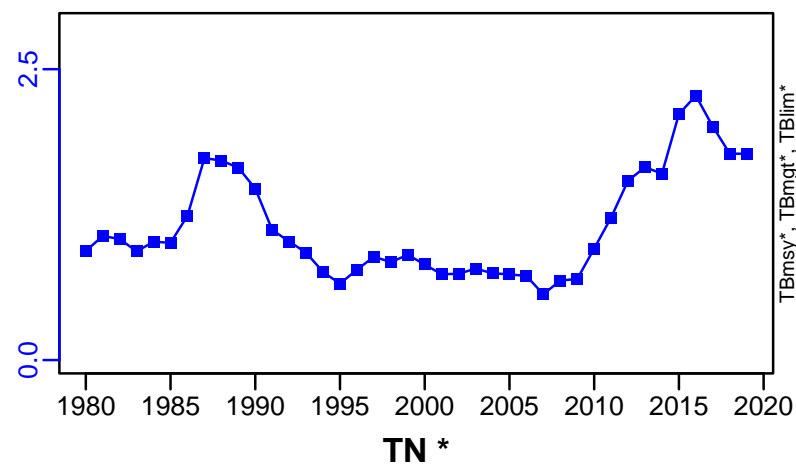
Production (1979–2014–ICESIMP2016)



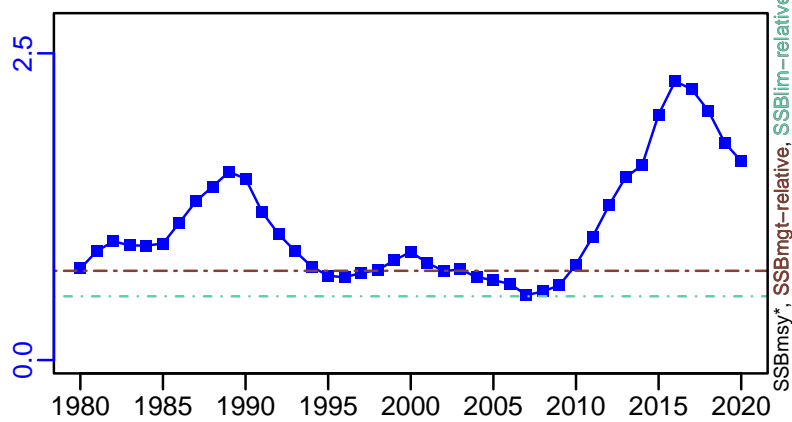
◆ Start Year ◆ End Year * No Data

European plaice Western English Channel [PLAICECHW]

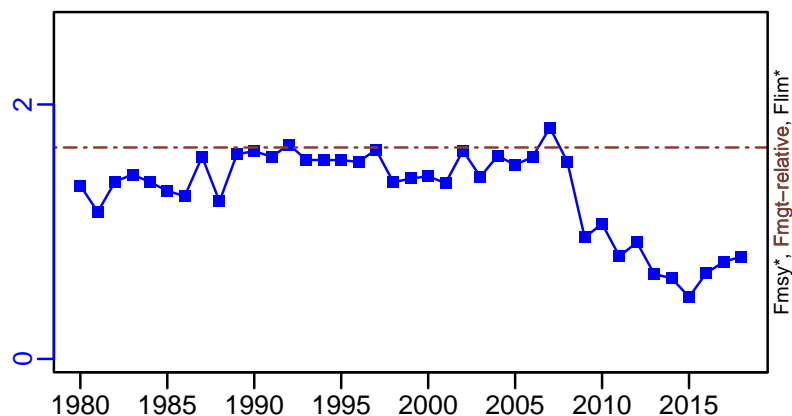
TB-relative (1978–2019–ICESIMP2021)



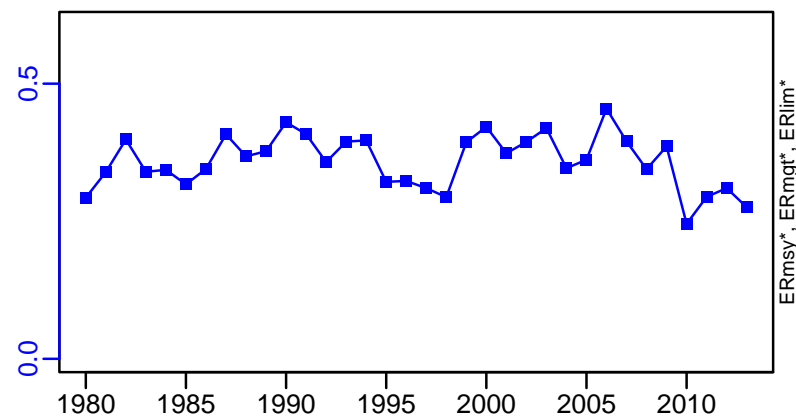
SSB-relative (1980–2020–ICESIMP2021–2)



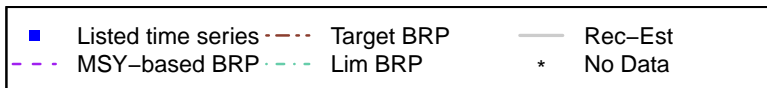
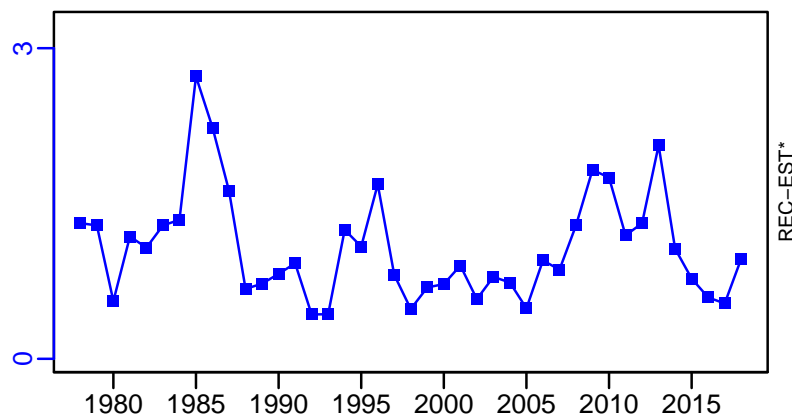
F-relative (1978–2019–ICESIMP2021)



ER-calc-ratio (1979–2014–ICESIMP2016)



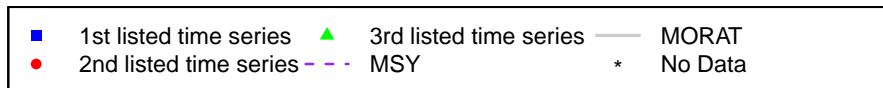
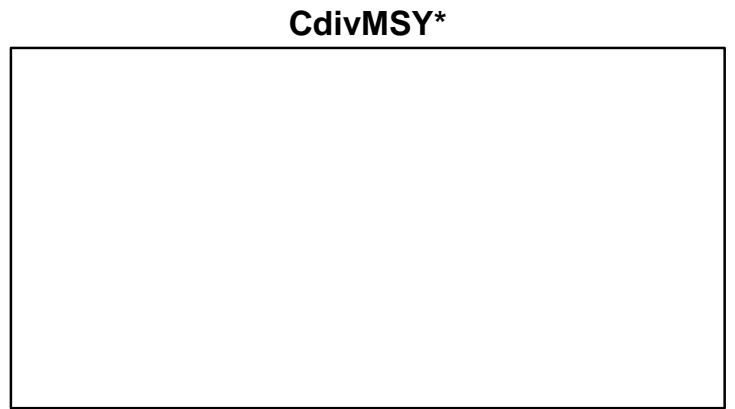
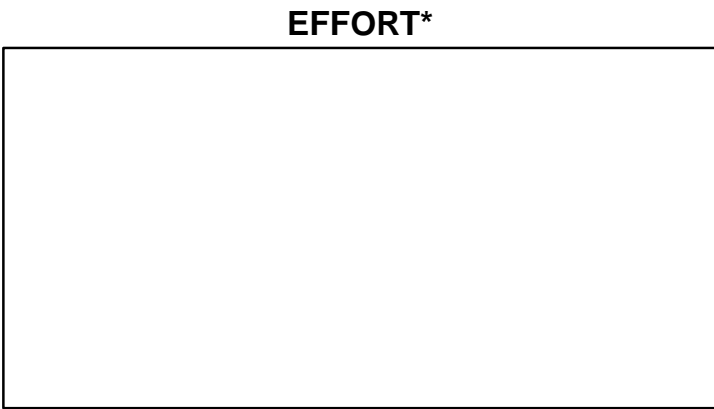
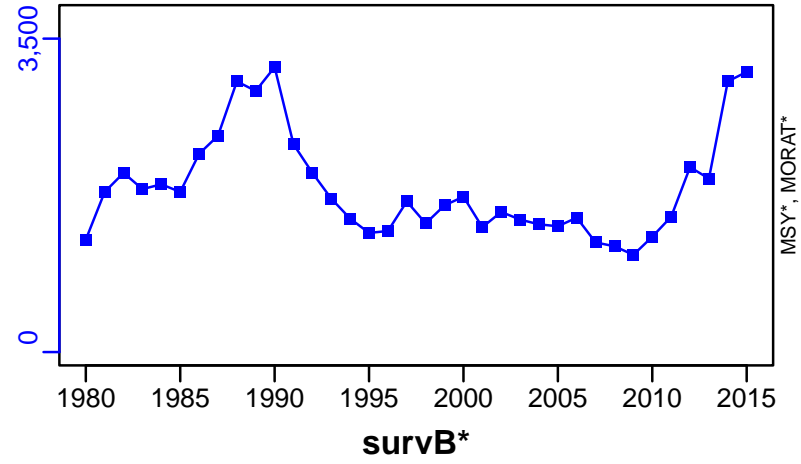
R-relative (1980–2020–ICESIMP2021–2)



European plaice Western English Channel [PLAICECHW]

TC-MT, TL*, RecC* (1978-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



European plaice Irish Sea [PLAICIS]

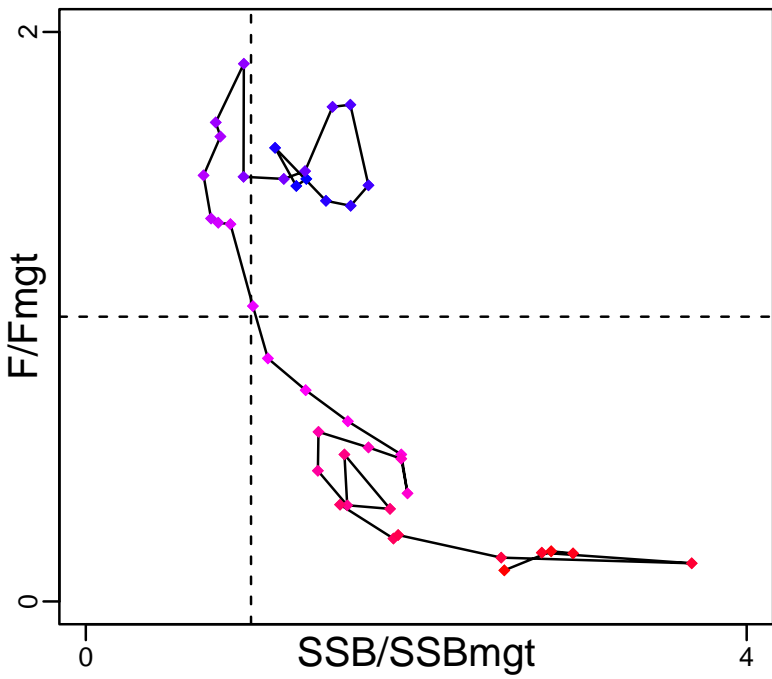
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICIS-1981-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.196
ERmsy	ERmsy-ratio	2019	0.196
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	5290
Fmgt	Fmgt-1/yr	2021	0.403
ERmgt	ERmgt-ratio	2019	0.196
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	3960
Flim	Flim-1/yr	2021	0.5
ERlim	-	-	-

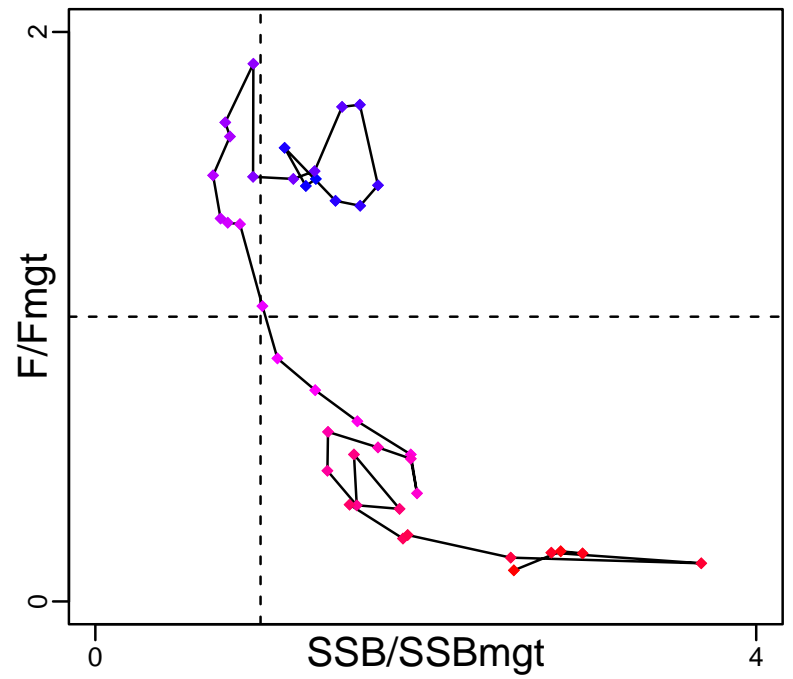
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	19,350	-	-
SSB	SSB-MT	2021	15,800	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.3×10^7	-	1
F	F-1/yr	2021	0.044	-	-
ER	ER-ratio	2019	0.064	-	3 to 6
TC	TC-MT	2019	830		
TL	TL-MT	2021	330		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.372		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.327		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.987		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.109		
ER/ERmgt	-	-	-		

European plaice Irish Sea [PLAICIS]

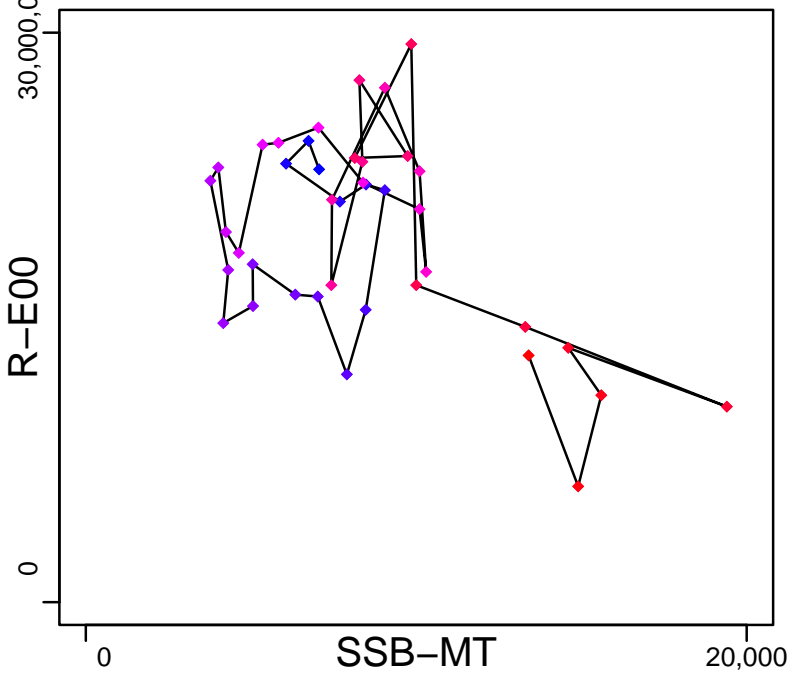
Kobe MSYpref (1981–2021–ICESIMP2021–2)



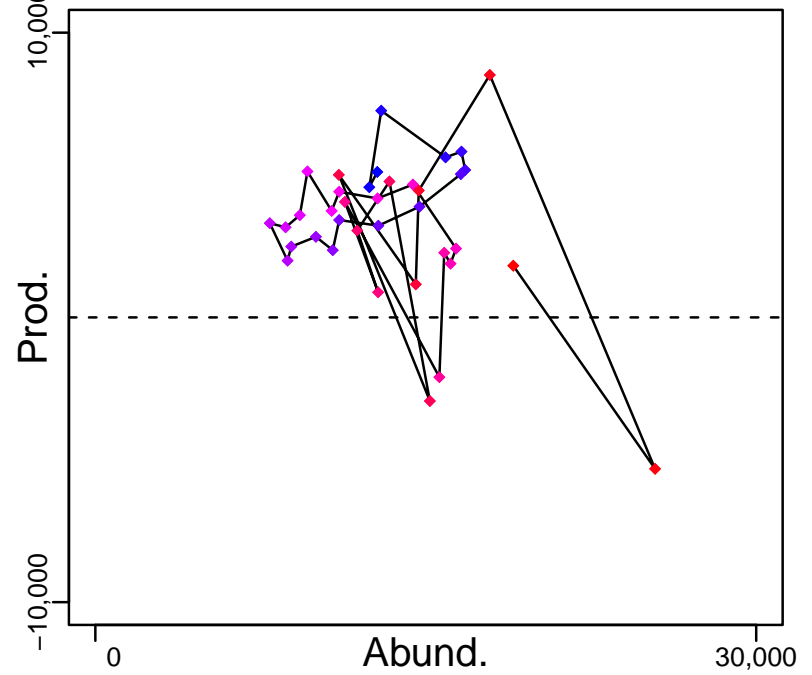
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2021–ICESIMP2021–2)



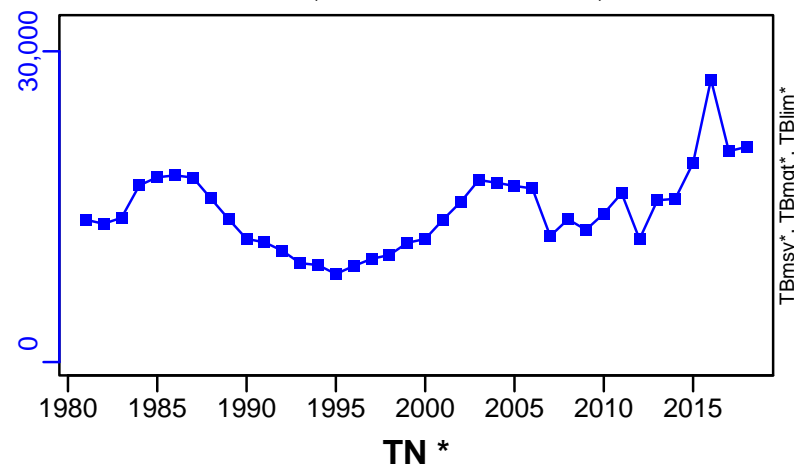
Production (1980–2019–ICESIMP2021)



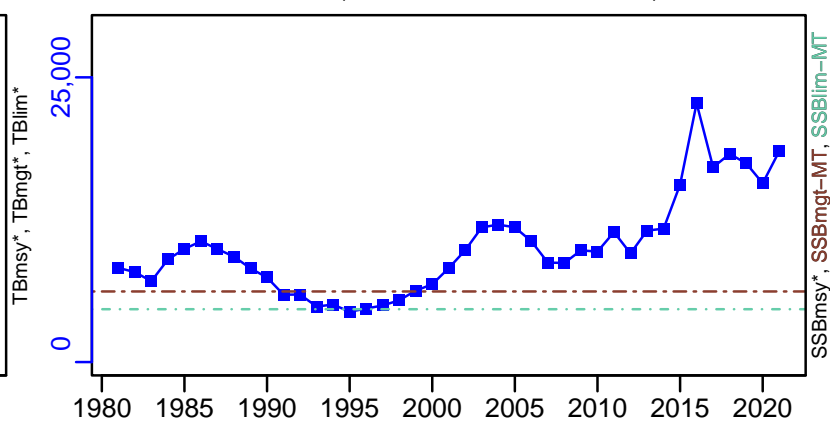
◆ Start Year ◆ End Year * No Data

European plaice Irish Sea [PLAICIS]

TB-MT (1980–2019–ICESIMP2021)



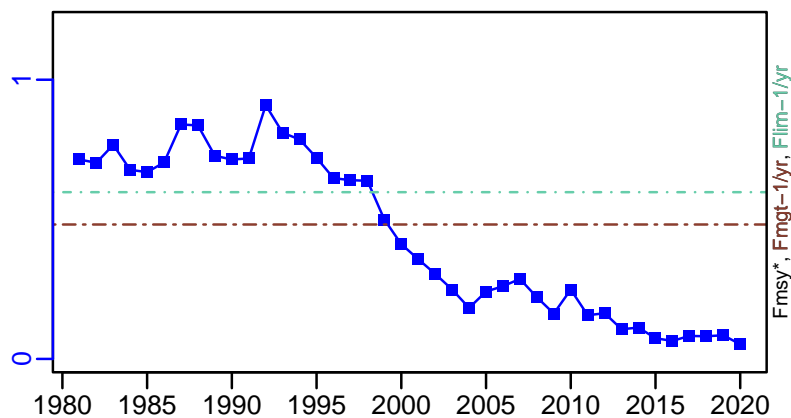
SSB-MT (1981–2021–ICESIMP2021–2)



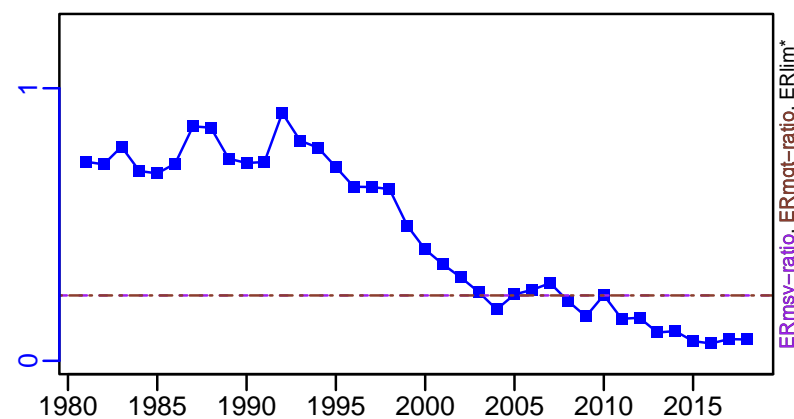
TN *



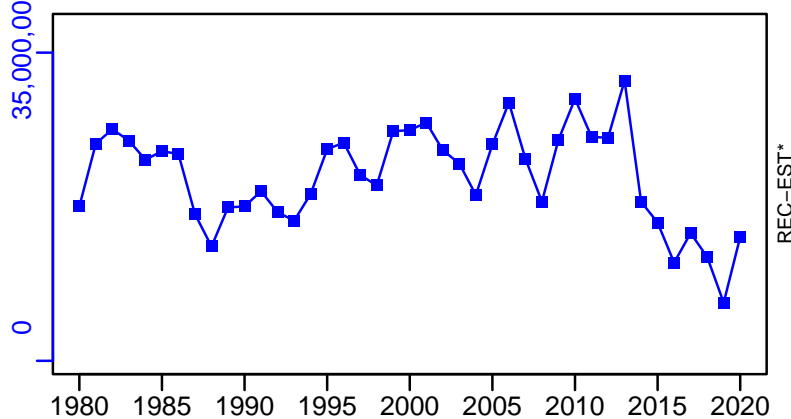
F-1/yr (1981–2021–ICESIMP2021–2)



ER-ratio (1980–2019–ICESIMP2021)

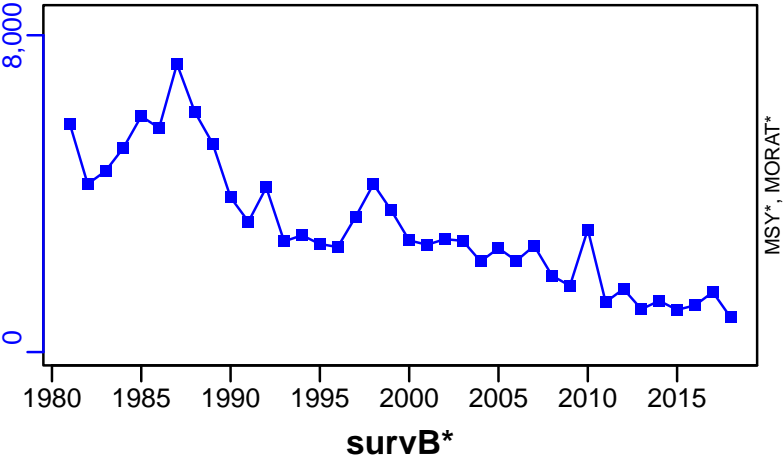


R-E00 (1981–2021–ICESIMP2021–2)



European plaice Irish Sea [PLAICIS]

TC-MT, TL*, RecC* (1980-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



European plaice North Sea [PLAICNS]

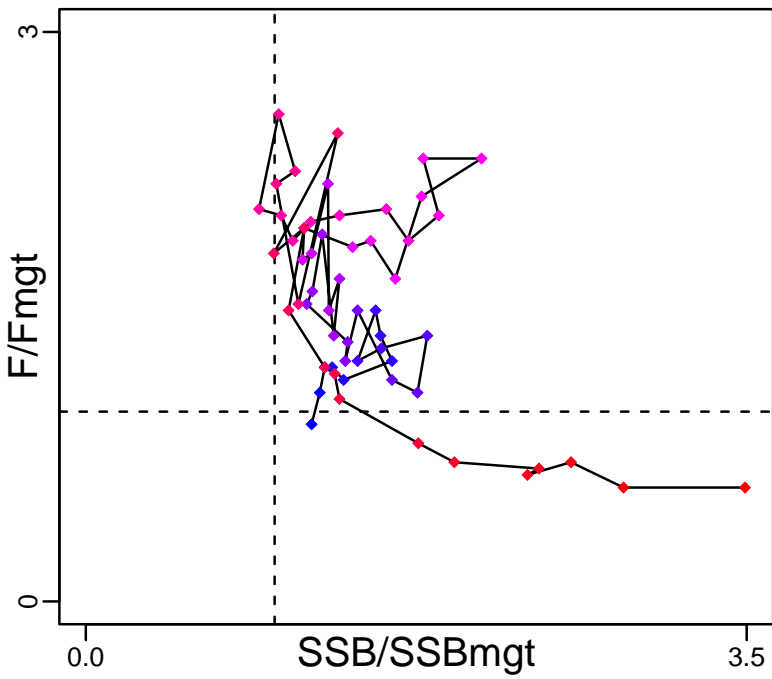
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICNS-1956-2023-ICESIMP2024
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.152
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	230,000
Fmgt	Fmgt-1/yr	2023	0.152
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	341,003
Flim	Flim-1/yr	2023	0.27
ERlim	-	-	-

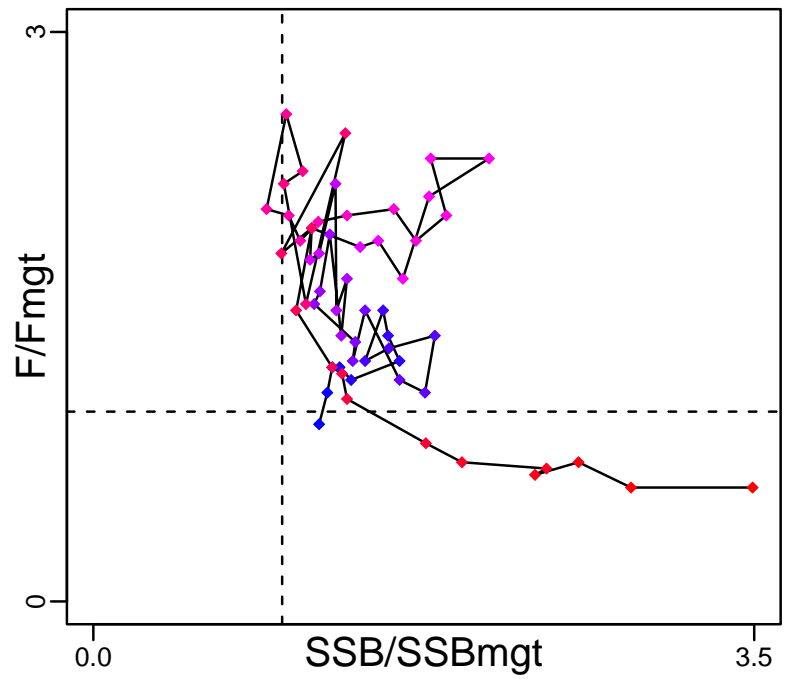
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	1,040,356	-	-
SSB	SSB-MT	2023	893,313	-	-
TN	-	-	-	-	-
R	R-E00	2023	3,701,607	-	1
F	F-1/yr	2023	0.085	-	-
ER	ER-calc-ratio	2023	0.062	-	-
TC	TC-MT	2023	64,897		
TL	TL-MT	2023	25,543		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.558		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	3.922		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.558		
ER/ERmgt	-	-	-		

European plaice North Sea [PLAICNS]

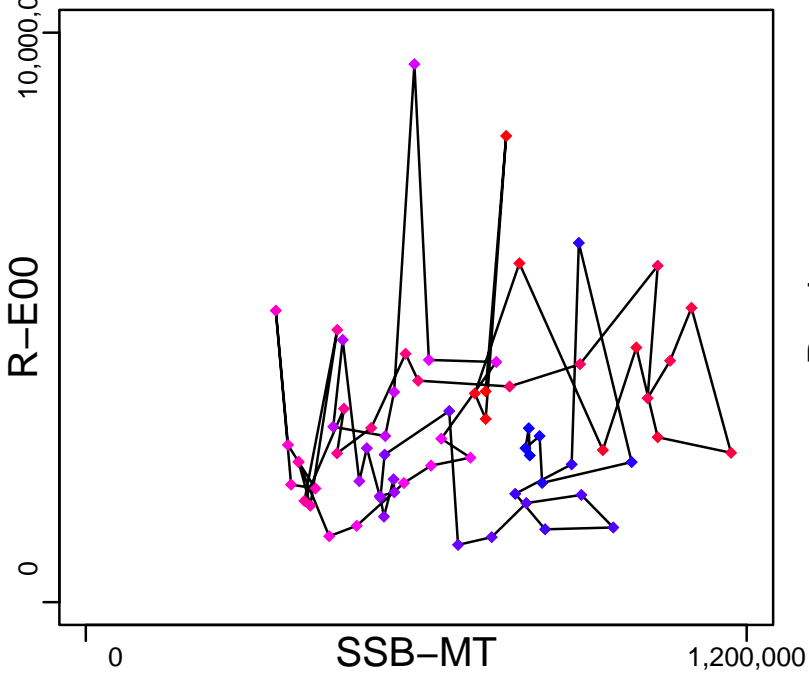
Kobe MSYpref (1956–2015–ICESIMP2016)



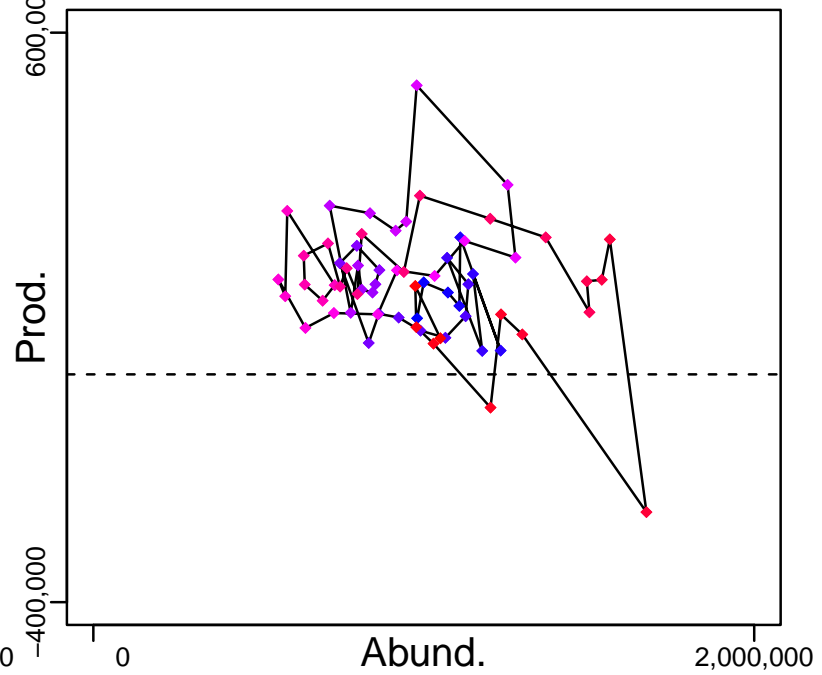
Kobe MGTpref (1956–2015–ICESIMP2016)



Spawner Recruit (1956–2023–ICESIMP2024)



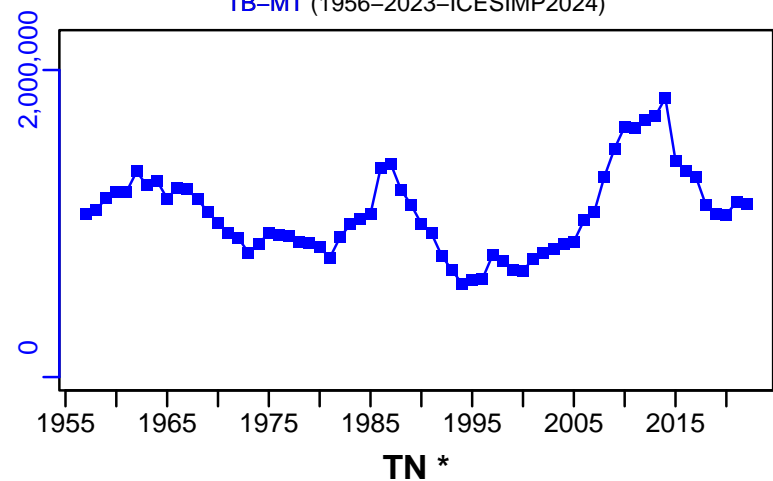
Production (1956–2023–ICESIMP2024)



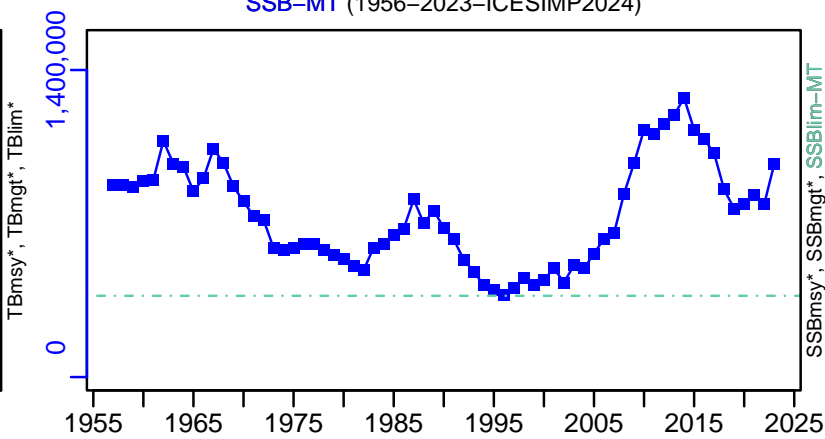
◆ Start Year ◆ End Year * No Data

European plaice North Sea [PLAICNS]

TB-MT (1956–2023–ICESIMP2024)



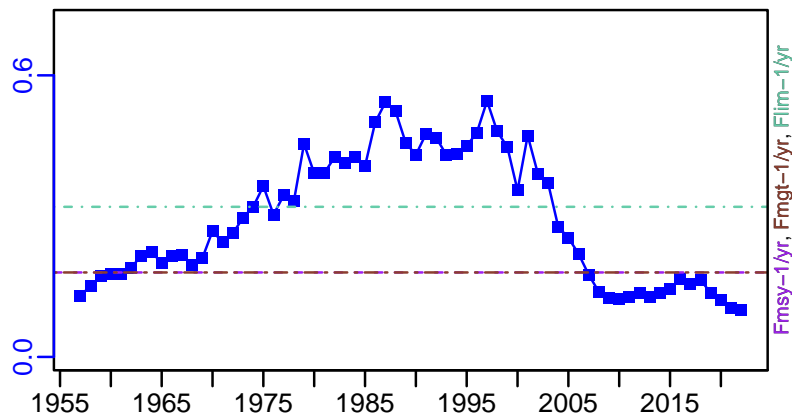
SSB-MT (1956–2023–ICESIMP2024)



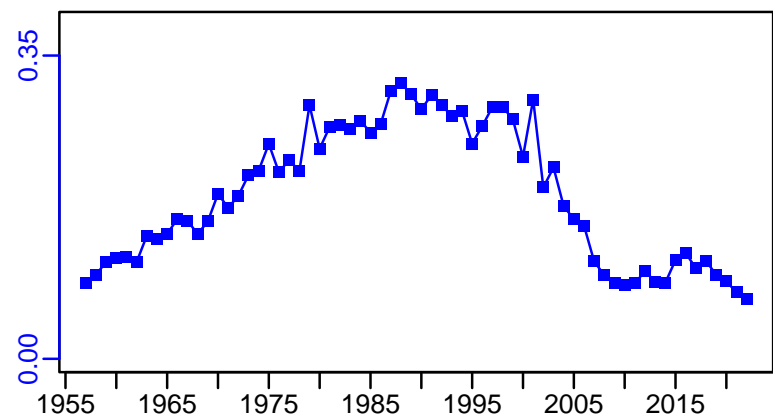
TN *



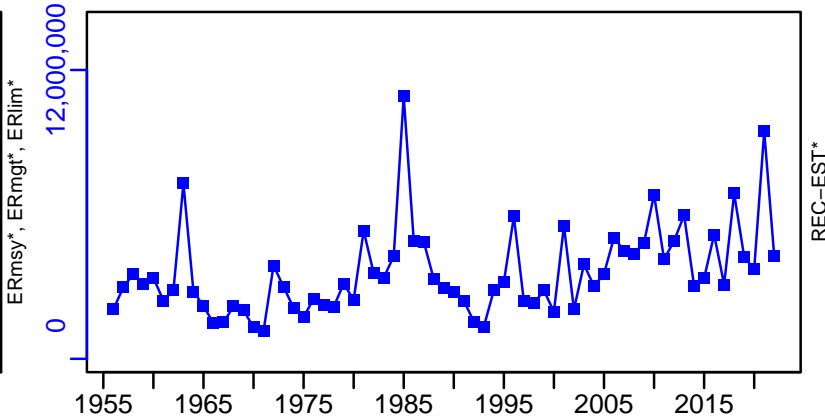
F-1/yr (1956–2023–ICESIMP2024)



ER-calc-ratio (1956–2023–ICESIMP2024)

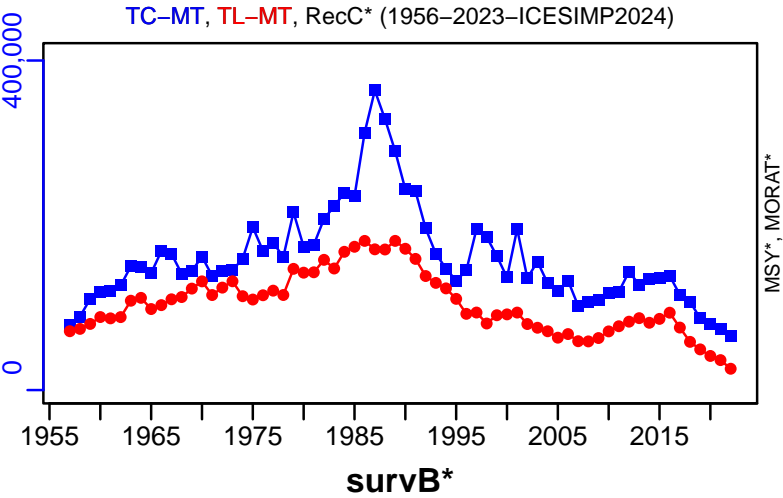


R-E00 (1956–2023–ICESIMP2024)



European plaice North Sea [PLAICNS]

TC-MT, TL-MT, RecC* (1956–2023–ICESIMP2024)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

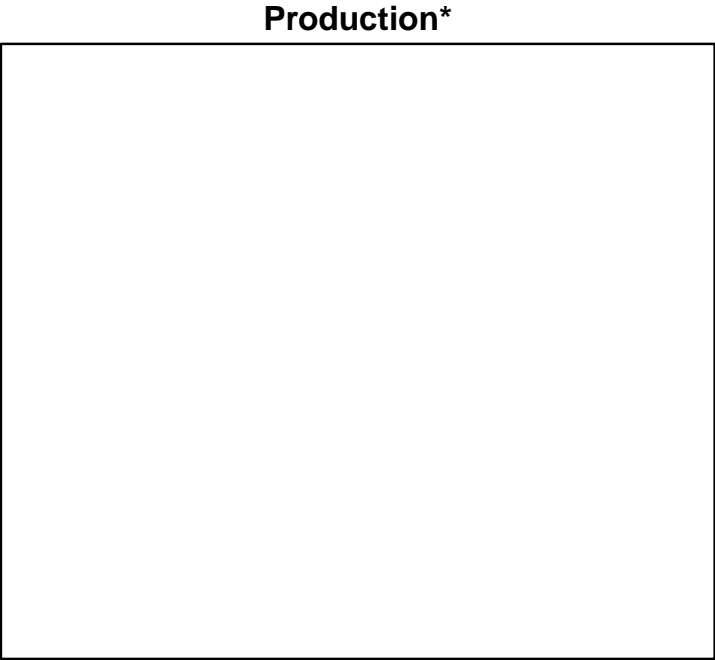
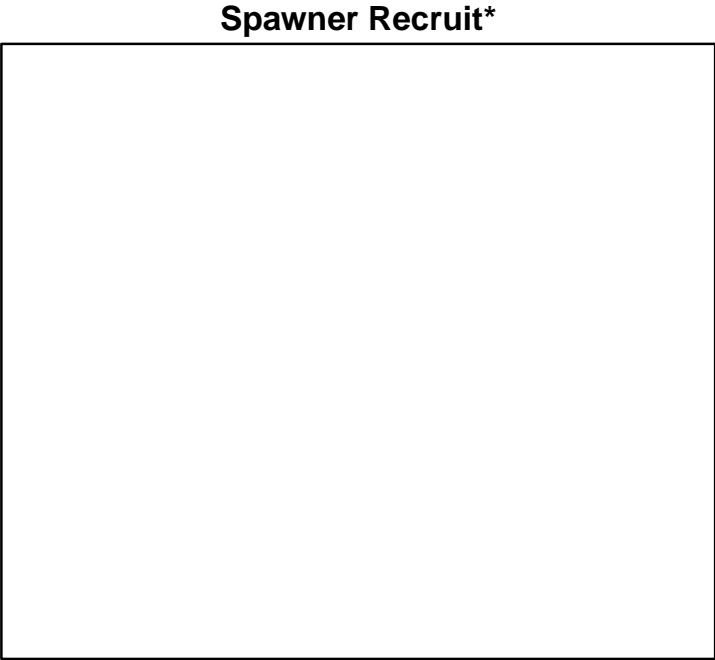
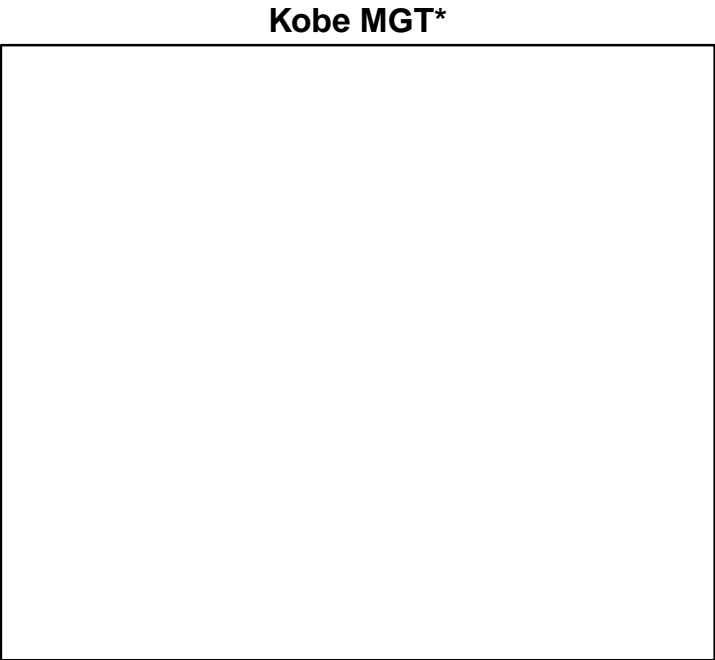
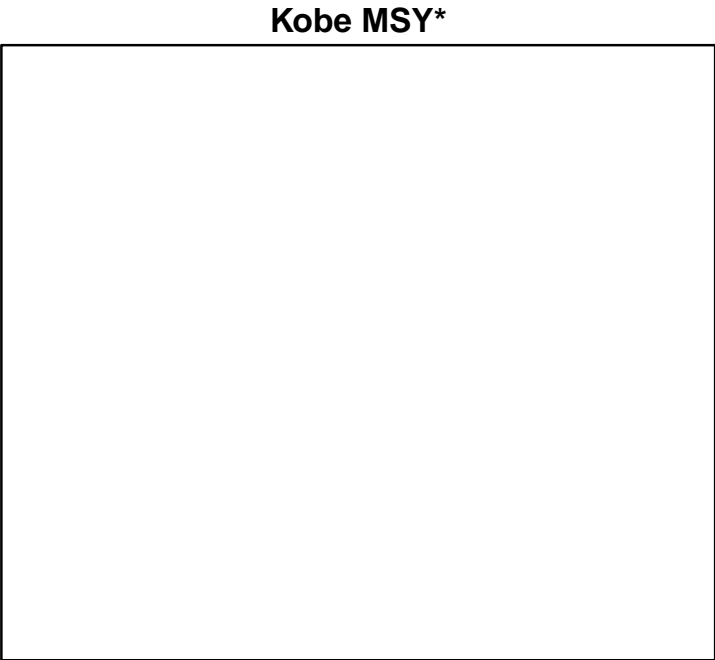


European plaice ICES 7bc [PLAICVIIbc]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIbc-1908-2019-ICESIMP2021-2
Area	ICES 7bc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2019, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	9		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

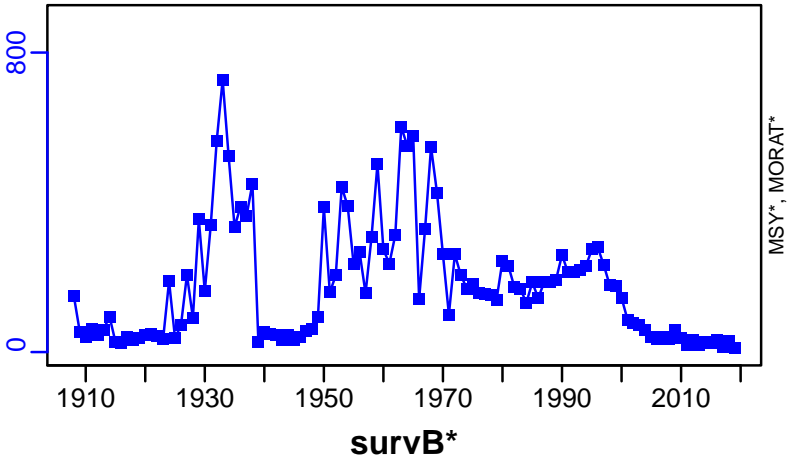
--- Lim BRP

— Rec-Est

* No Data

European plaice ICES 7bc [PLAICVIIbc]

TL-MT, TC*, RecC* (1908-2019-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



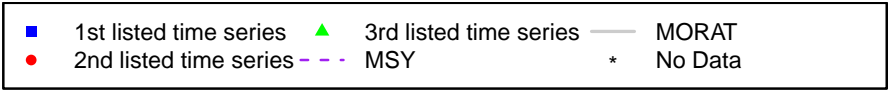
CPUE*



EFFORT*



CdivMSY*

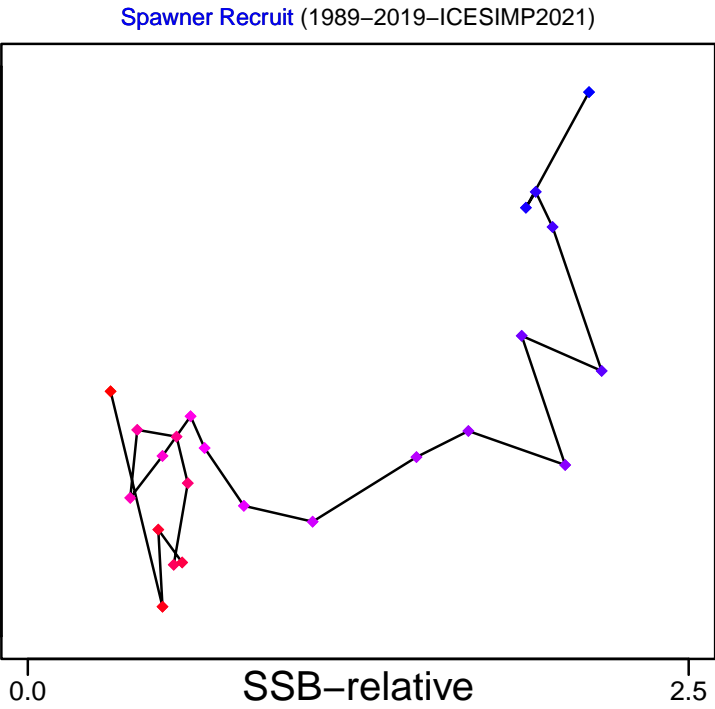
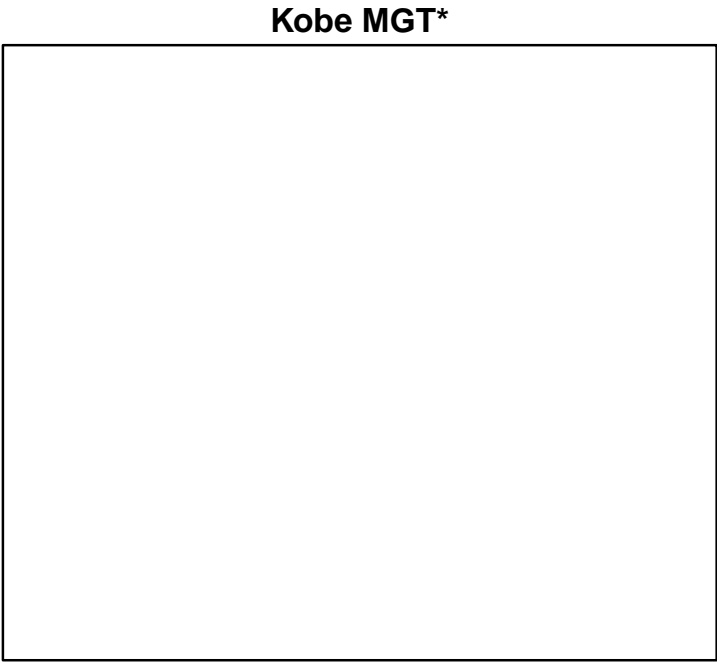
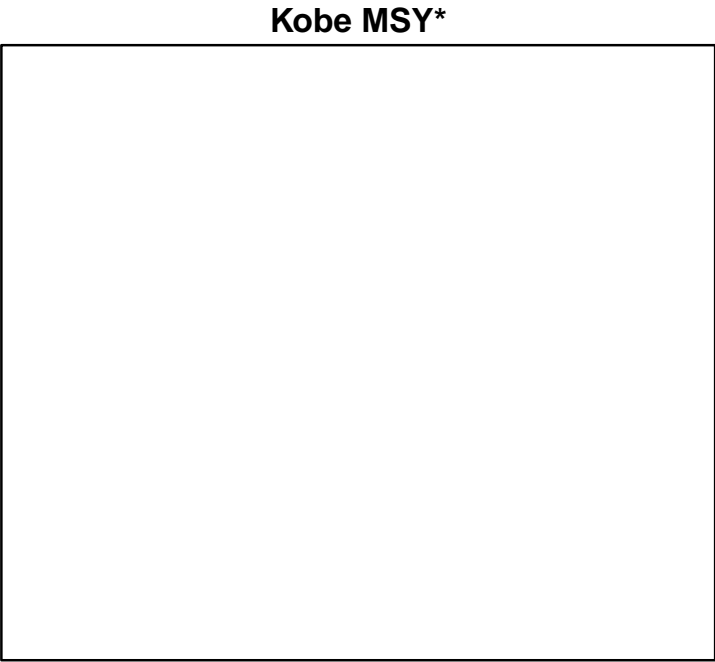


European plaice ICES 7h-k [PLAICVIIh-k]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIh-k-1995-2020-ICESIMP2021-2
Area	ICES 7h-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2018, 2019, 2020

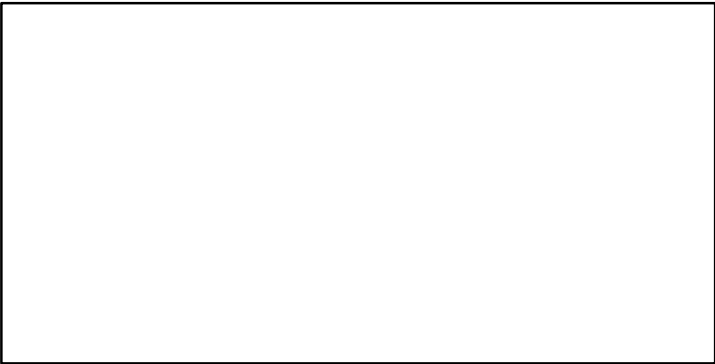
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2018	0.261
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2019	1.743
Fmgt	Fmgt-relative	2019	0.415
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	236
Flim	Flim-relative	2018	0.436
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2019	0.579	-	-
TN	-	-	-	-	-
R	R-relative	2019	0.86	-	4
F	F-relative	2019	0.91	-	4 to 6
ER	-	-	-	-	-
TC	TC-MT	2020	70		
TL	TL-MT	2020	39		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

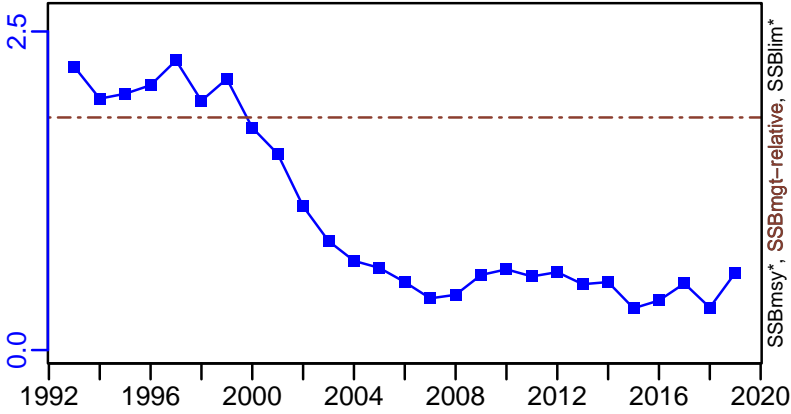


European plaice ICES 7h-k [PLAICVIIh-k]

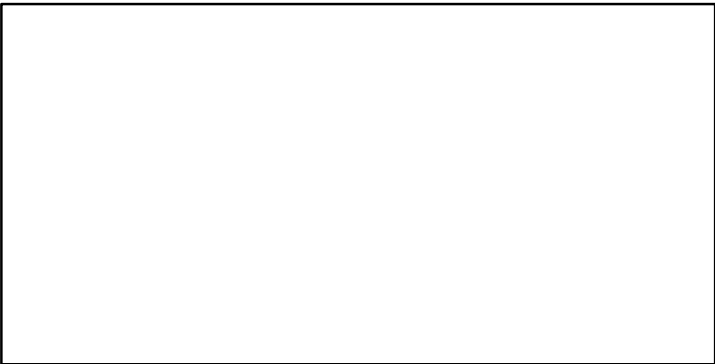
TB*



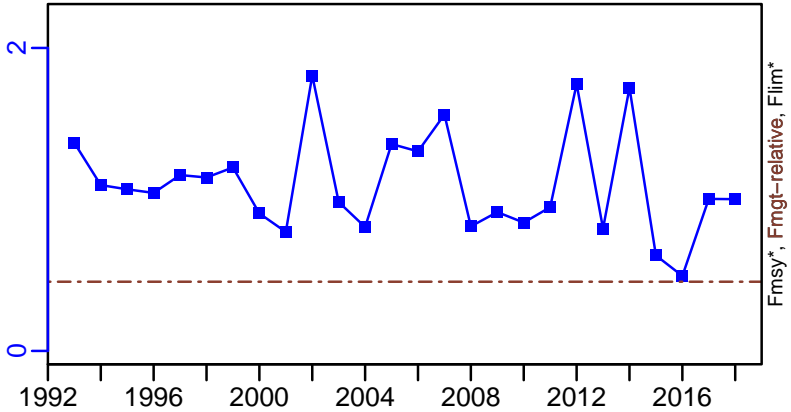
SSB-relative (1989-2019-ICESIMP2021)



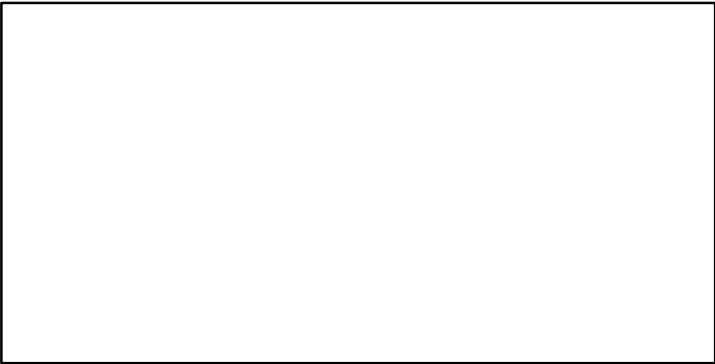
TN *



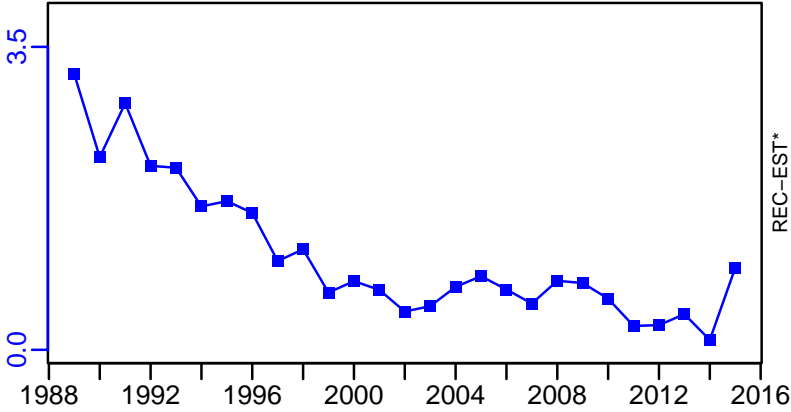
F-relative (1989-2019-ICESIMP2021)



ER*

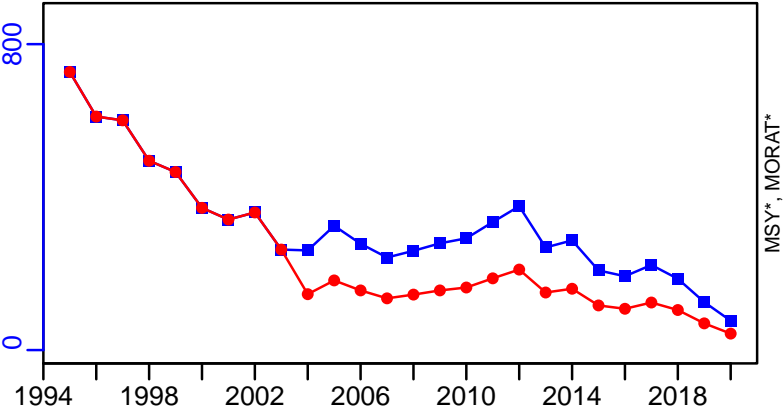


R-relative (1989-2019-ICESIMP2021)

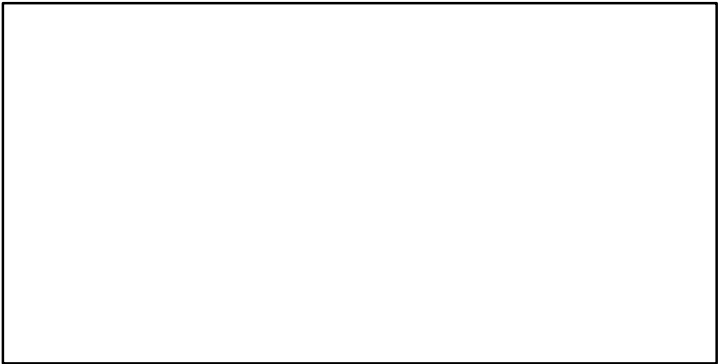


European plaice ICES 7h-k [PLAICVIIh-k]

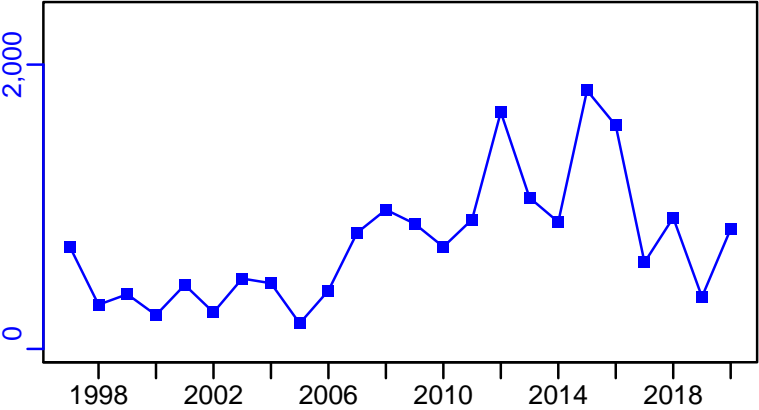
TC-MT, TL-MT, RecC* (1995-2020-ICESIMP2021-2)



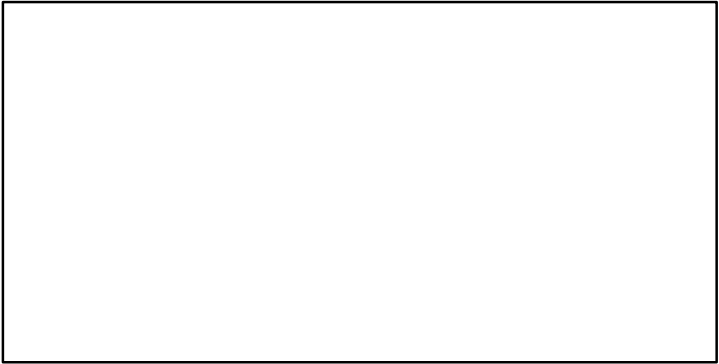
TAC*, Cpair*, Cadv*



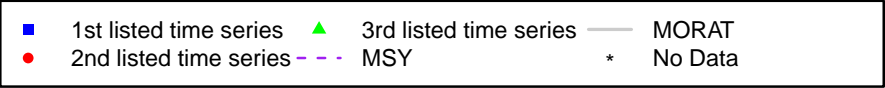
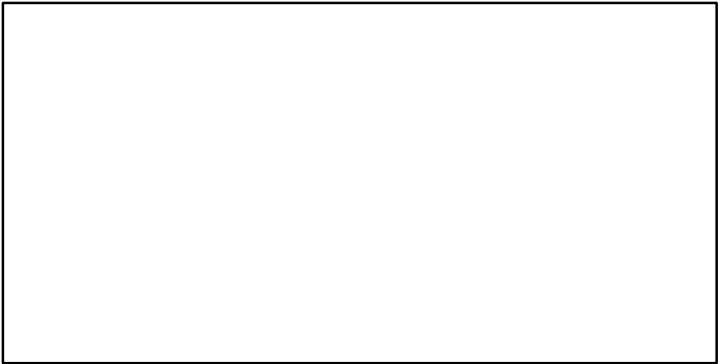
survB-MT (1995-2020-ICESIMP2021-2)



CPUE*



CdivMSY*



European plaice ICES 8-9a [PLAICVIII-IXa]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBIE-PLAICVIII-IXa-1994-2018-ICESIMP2021
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	133		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

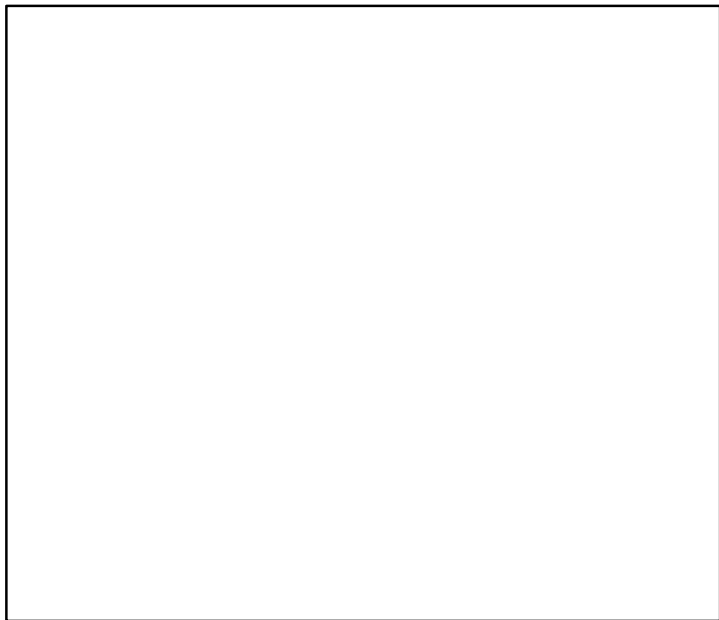
Kobe MSY*



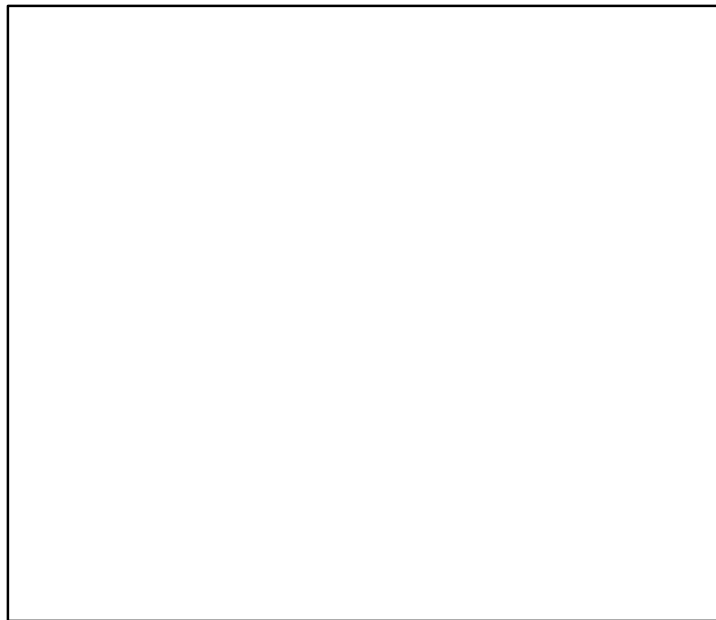
Kobe MGT*



Spawner Recruit*



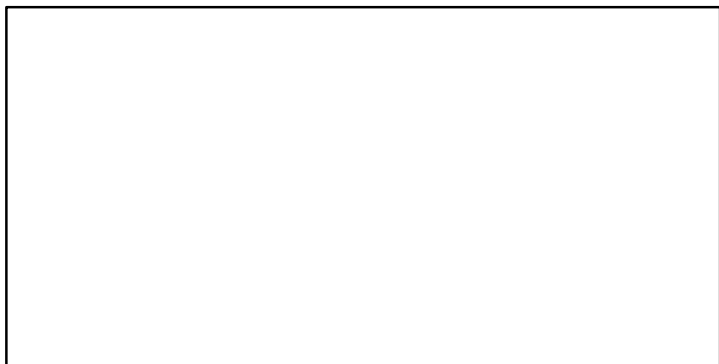
Production*



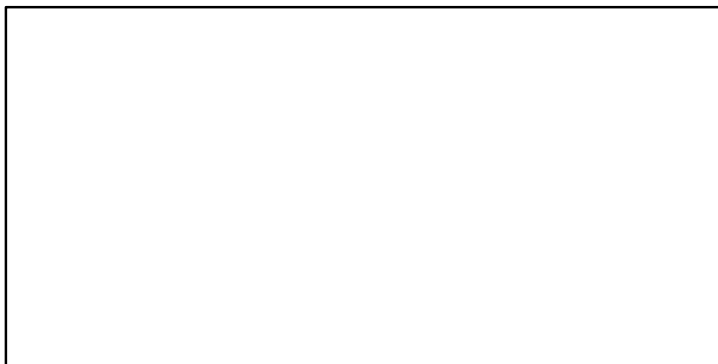
◆ Start Year ◆ End Year * No Data

European plaice ICES 8–9a [PLAICVIII–IXa]

TB*



SSB*



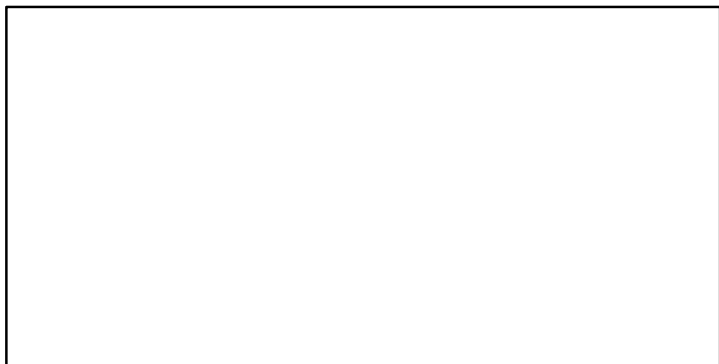
TN *



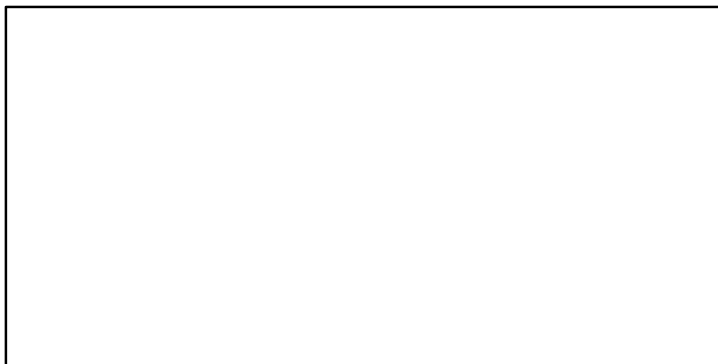
F*



ER*



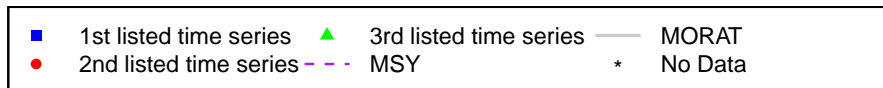
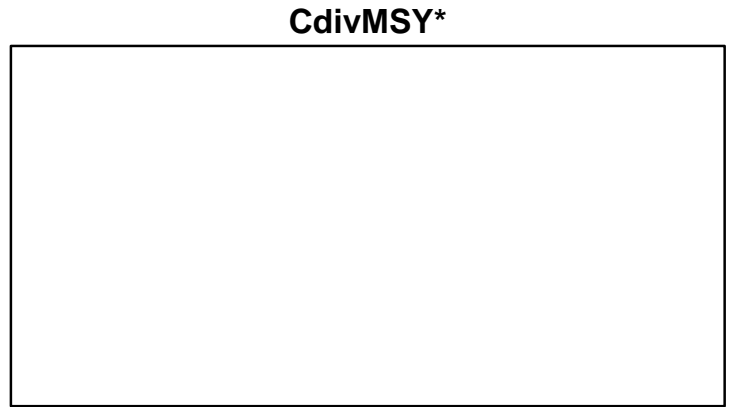
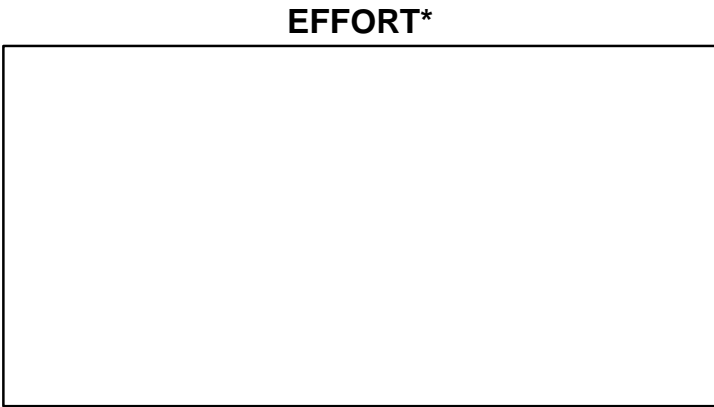
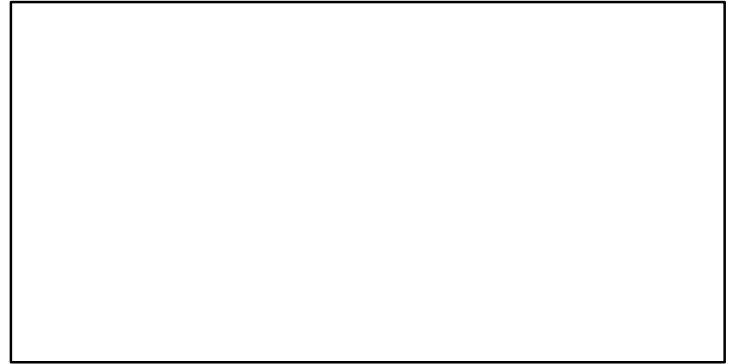
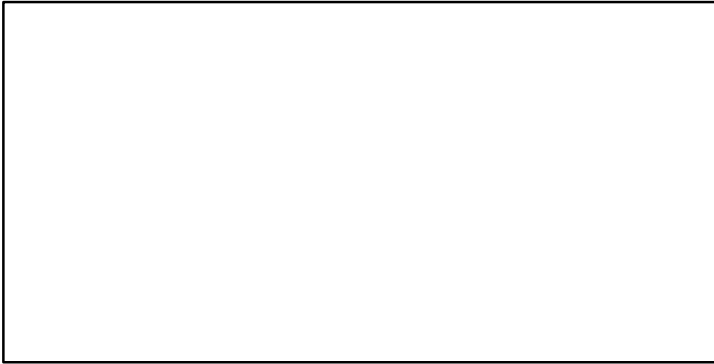
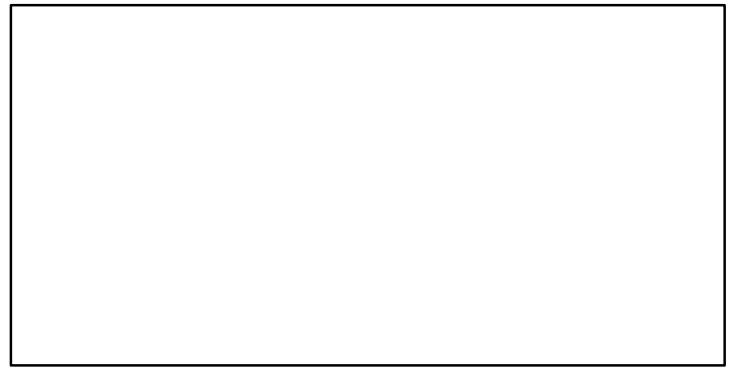
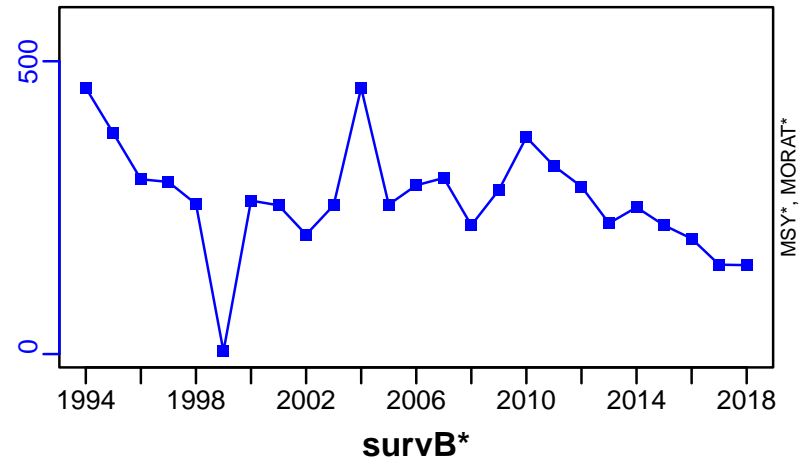
Recruits*



European plaice ICES 8–9a [PLAICVIII–IXa]

TL–MT, TC*, RecC* (1994–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



Petrable sole Pacific Coast [PSOLEPCOAST]

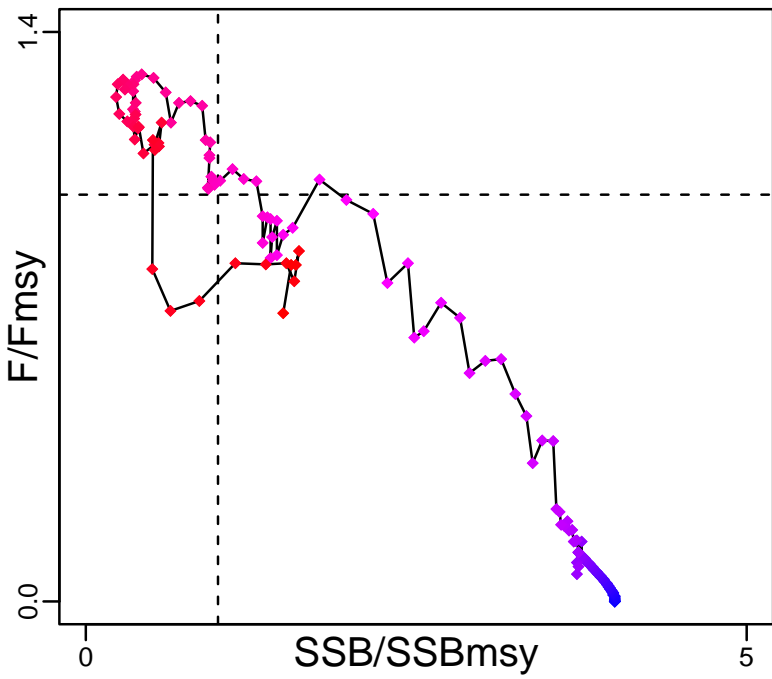
Metadata	
Scientific Name	Eopsetta jordani
Current Assess ID	NWFSC-PSOLEPCOAST-1876-2021-SISIMP2021-2
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2015, 2019, 2021, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	11,764
SSBmsy	SSBmsy-MT	2021	8370
Fmsy	Fmsy-1/yr	2021	0.7
ERmsy	ERmsy-ratio	2011	0.22
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	TB0-MT	2011	41,352
SSB0	SSB0-MT	2011	26,278
MSY	MSY-MT	2021	3140
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	4190
Flim	Flim-1/yr	2021	0.7
ERlim	-	-	-

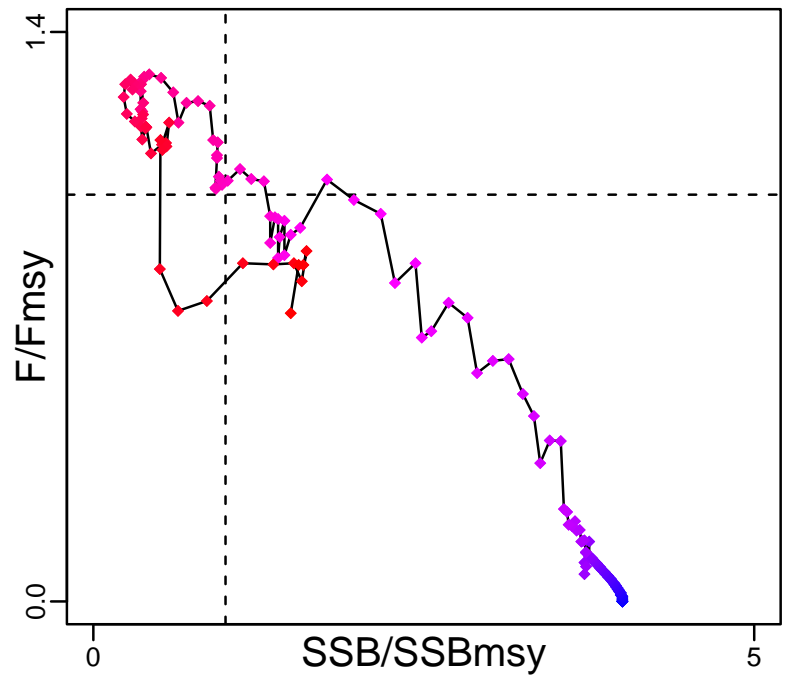
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	19,400	-	3+
SSB	SSB-MT	2021	12,500	-	-
TN	-	-	-	-	-
R	R-E00	2021	18,700,000	-	0
F	F-1/yr	2021	0.496	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2021	4120		
TL	TL-MT	2011	701		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2011	1.012		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.493		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.709		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.386		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Petrale sole Pacific Coast [PSOLEPCOAST]

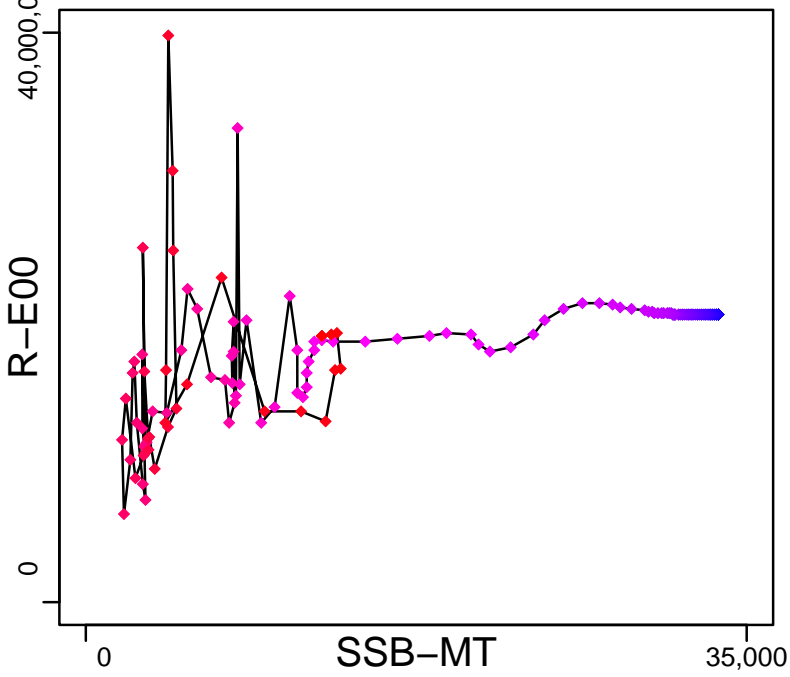
Kobe MSY_{pref} (1876–2021–SISIMP2021–2)



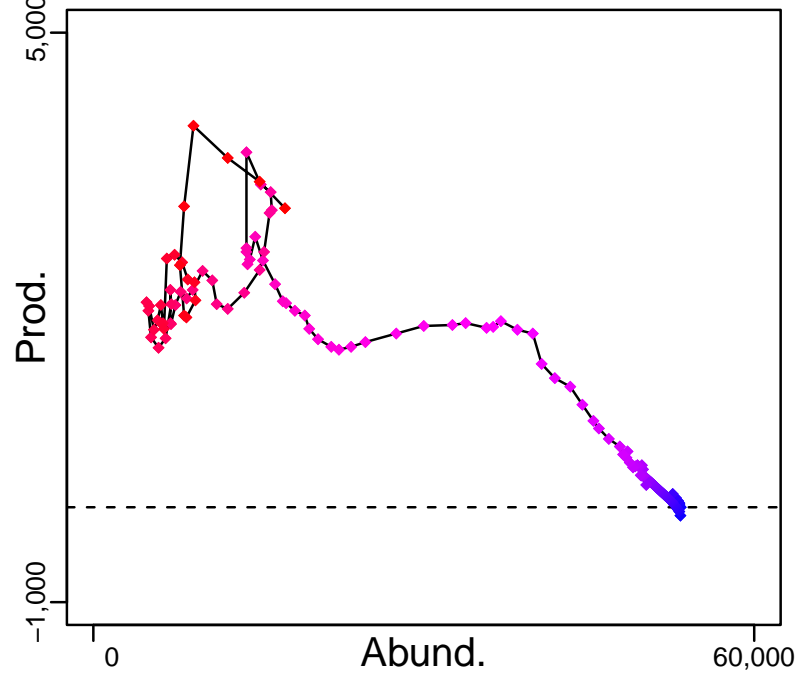
Kobe MGT_{pref} (1876–2021–SISIMP2021–2)



Spawner Recruit (1876–2021–SISIMP2021–2)



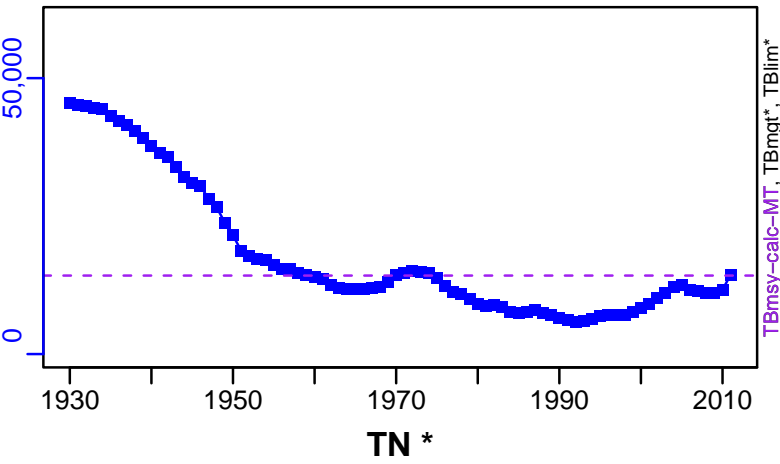
Production (1876–2015–SISIMP2016)



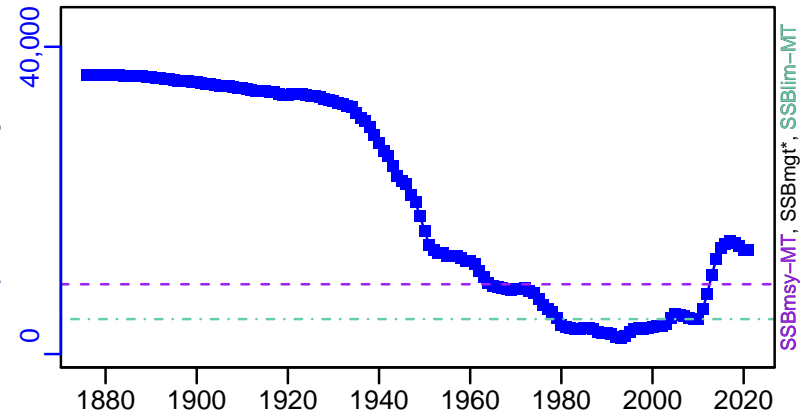
◆ Start Year ◆ End Year * No Data

Petrale sole Pacific Coast [PSOLEPCOAST]

TB-MT (1930–2011–CHING)



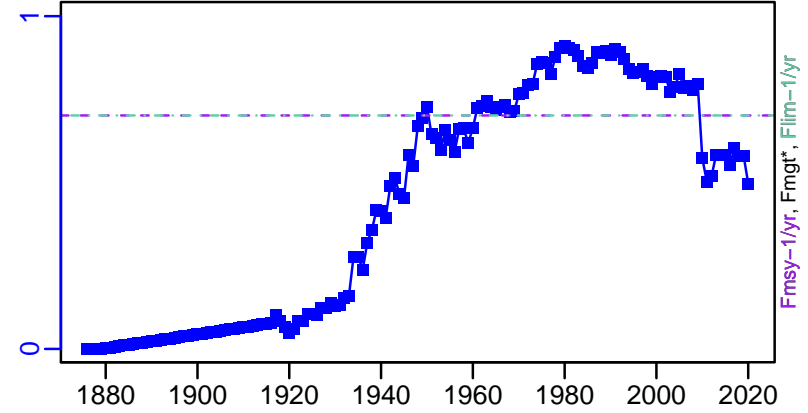
SSB-MT (1876–2021–SISIMP2021–2)



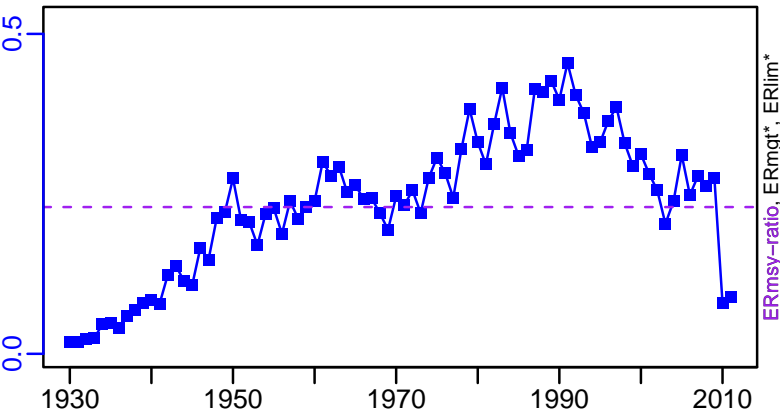
TN *



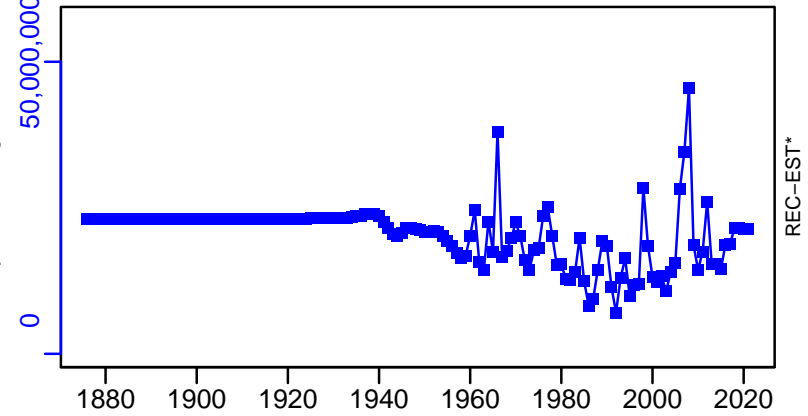
F-1/yr (1876–2021–SISIMP2021–2)



ER-ratio (1930–2011–CHING)

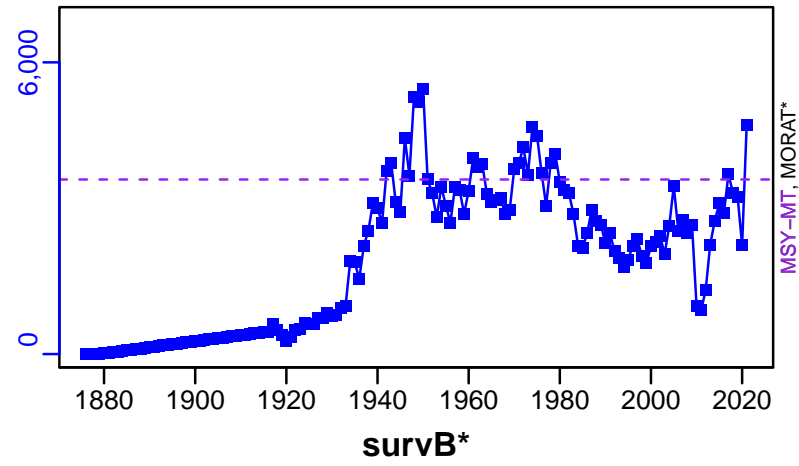


R-E00 (1876–2021–SISIMP2021–2)



Petrale sole Pacific Coast [PSOLEPCOAST]

TC-MT, TL*, RecC* (1876-2021-SISIMP2021-2)



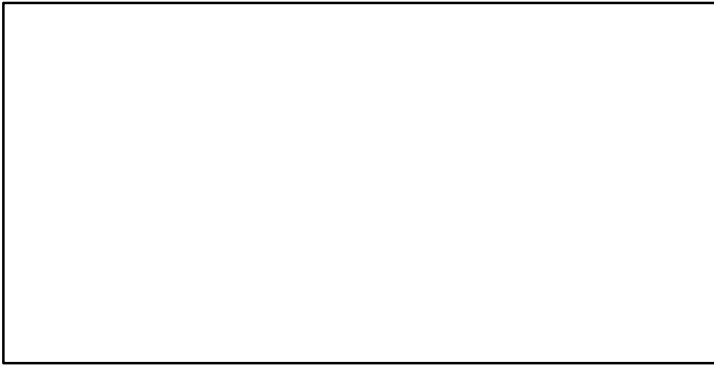
TAC*, Cpair*, Cadv*



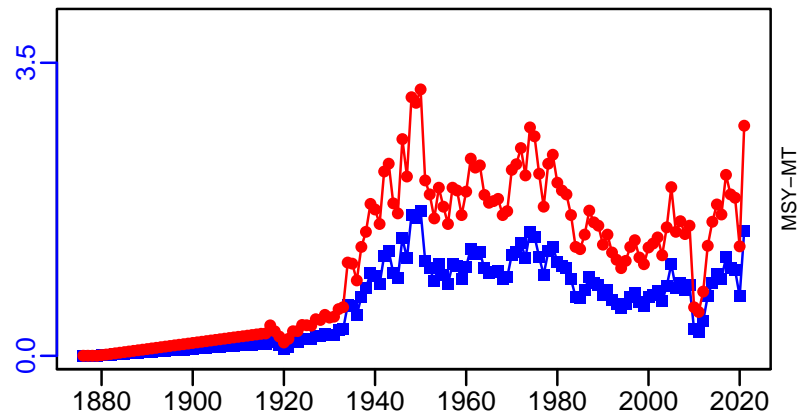
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1876-2021-SISIMP2021-2)



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

Rex sole Gulf of Alaska [REXSOLEGA]

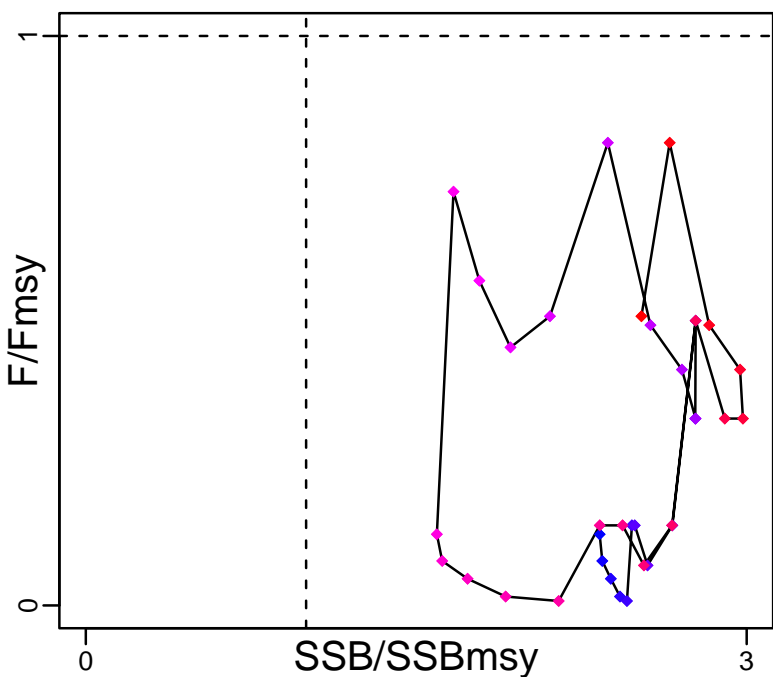
Metadata	
Scientific Name	Glyptocephalus zachirus
Current Assess ID	AFSC-REXSOLEGA-1982-2018-SISIMP2021
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2011, 2014, 2016, 2017, 2018

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

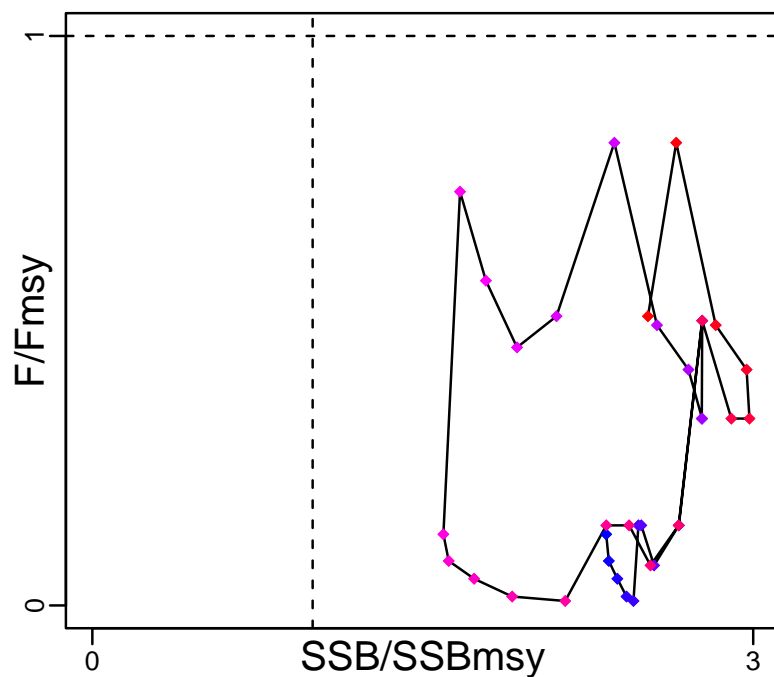
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	43,731	-	-
SSB	SSB-MT	2018	36,411	-	-
TN	-	-	-	-	-
R	R-E00	2018	78,656,292	-	0
F	F-1/yr	2018	0.025	-	-
ER	ER-ratio	2016	0.047	-	-
TC	TC-MT	2018	1483		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2016	2.198		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.408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

Rex sole Gulf of Alaska [REXSOLEGA]

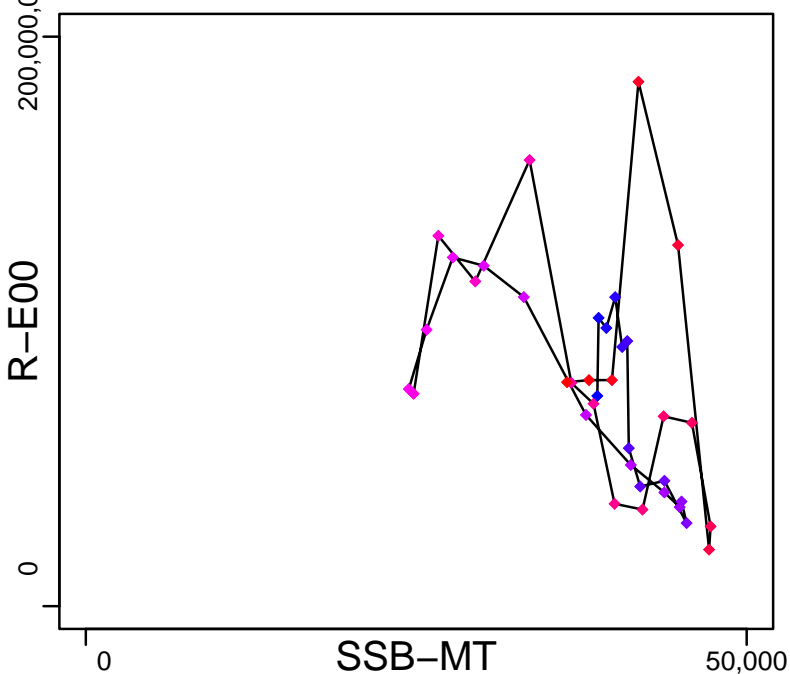
Kobe MSY_{pref} (1982–2017–SISIMP2021)



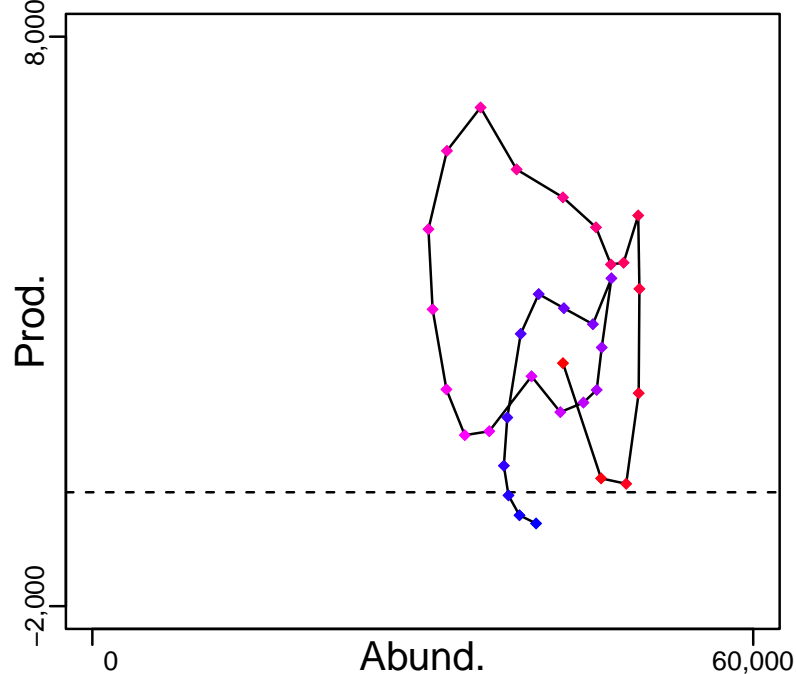
Kobe MGT_{pref} (1982–2017–SISIMP2021)



Spawner Recruit (1982–2018–SISIMP2021)



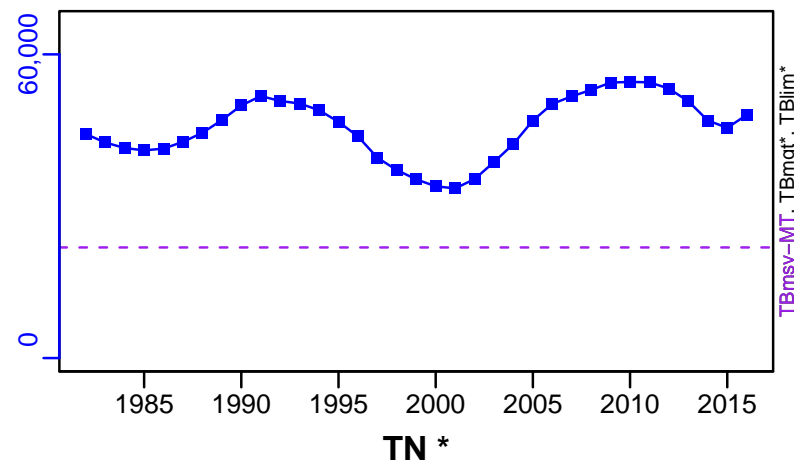
Production (1982–2016–SISIMP2021)



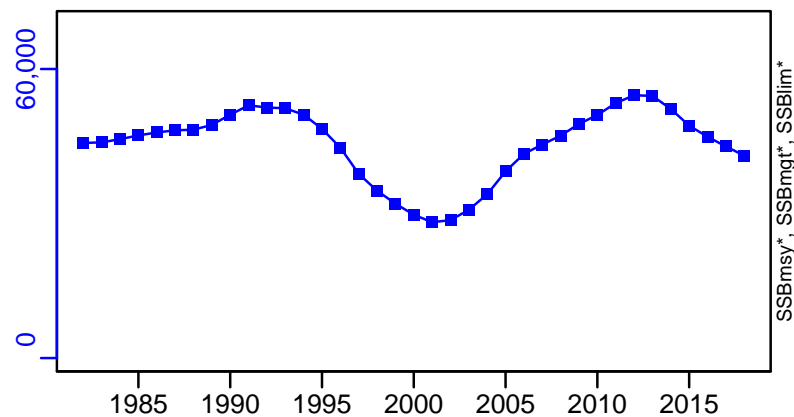
◆ Start Year ◆ End Year * No Data

Rex sole Gulf of Alaska [REXSOLEGA]

TB-MT (1982–2016–SISIMP2021)



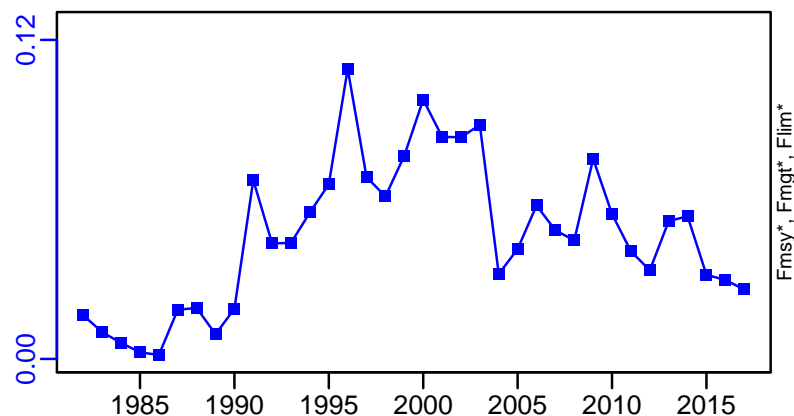
SSB-MT (1982–2018–SISIMP2021)



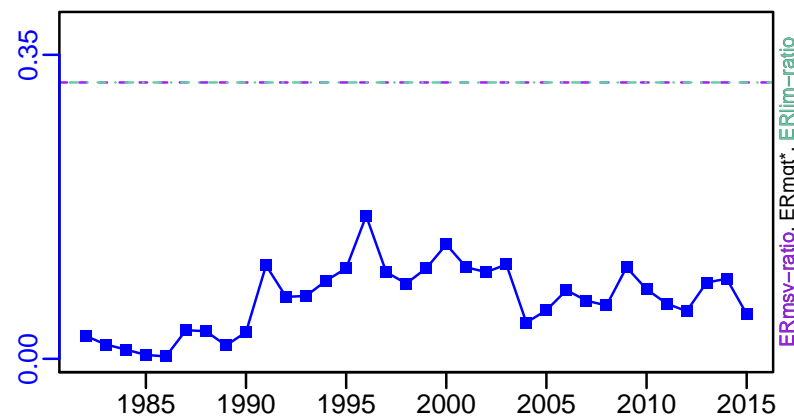
TN *



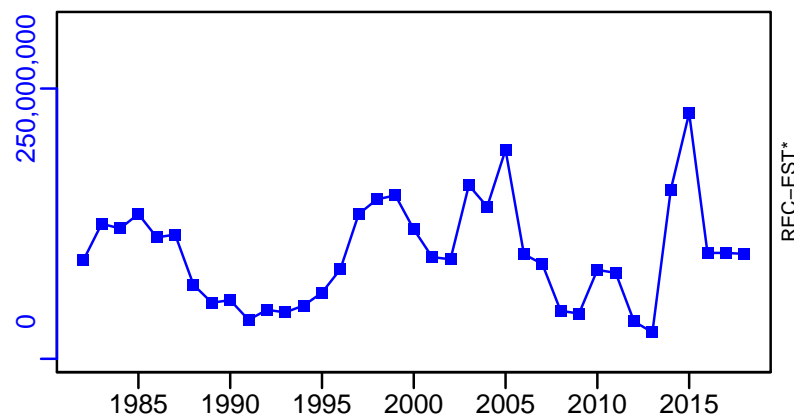
F-1/yr (1982–2018–SISIMP2021)



ER-ratio (1982–2016–SISIMP2021)

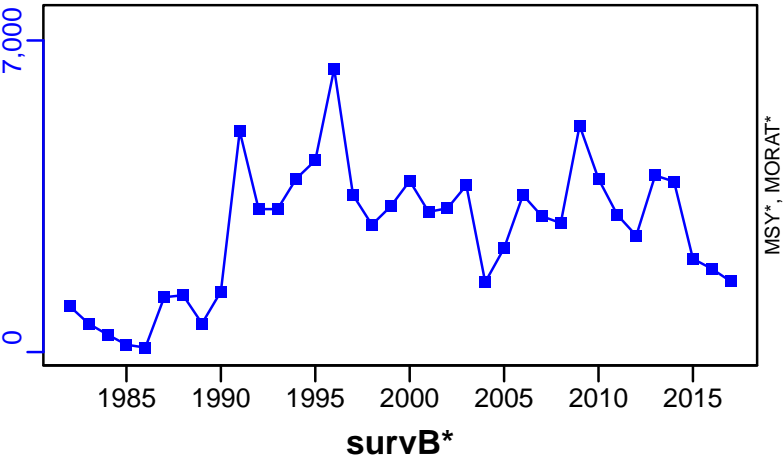


R-E00 (1982–2018–SISIMP2021)



Rex sole Gulf of Alaska [REXSOLEGA]

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



TAC*, Cpair*, Cadv*



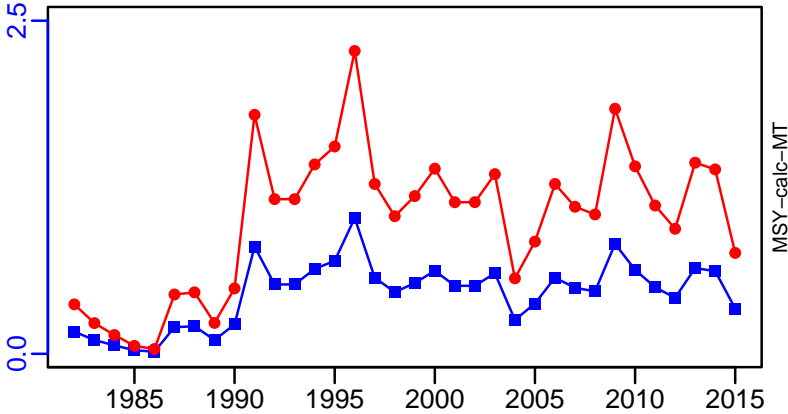
CPUE*



EFFORT*



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



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

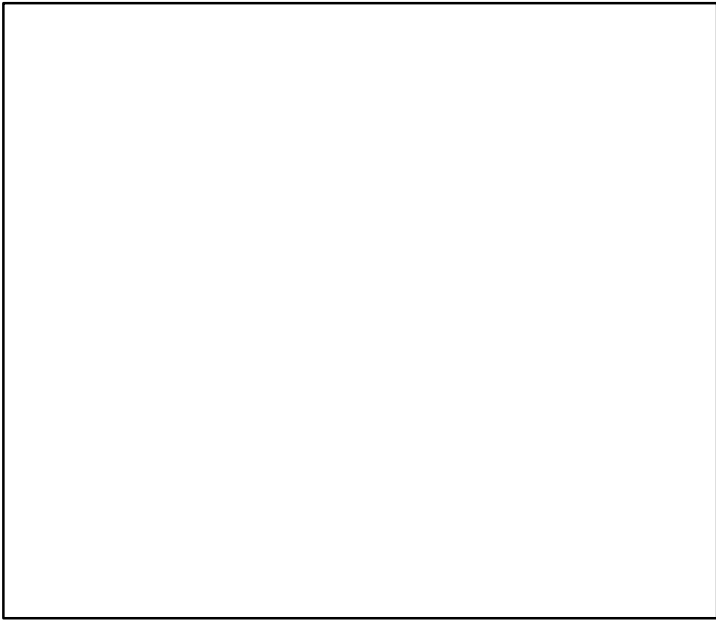
Rex sole Pacific Coast [REXSOLEPCOAST]

Metadata	
Scientific Name	Glyptocephalus zachirus
Current Assess ID	NWFSC-REXSOLEPCOAST-1896-2012-SISIMP2016
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northwest Fisheries Science Center
Asmts in RAM	2012

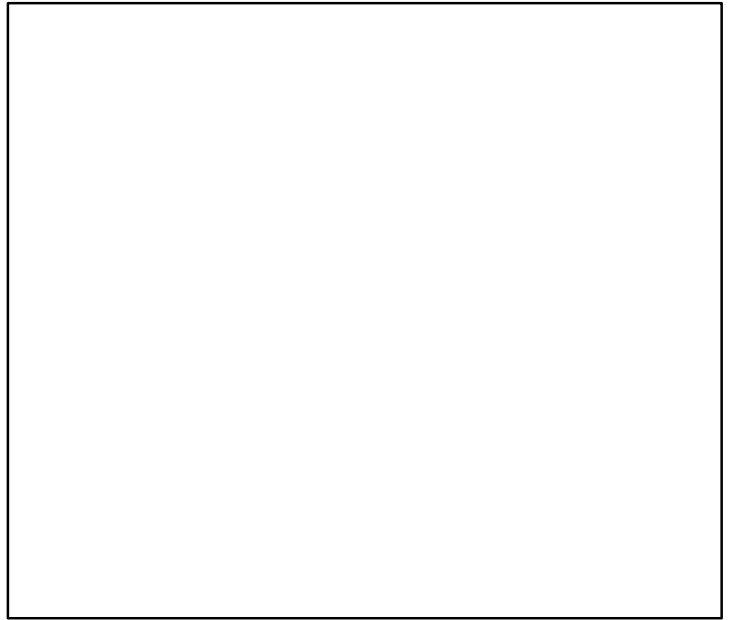
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.7
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	1646
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2012	0.7
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	18,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2012	0.131	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.187		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

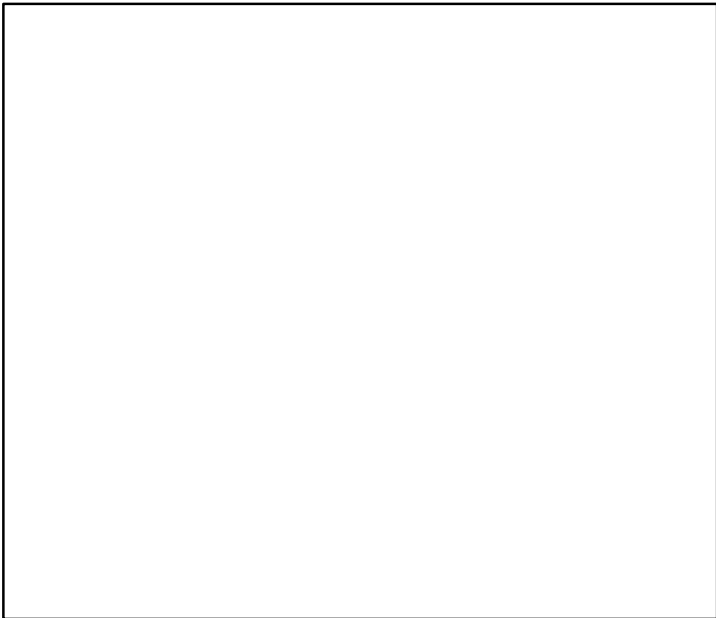
Kobe MSY*



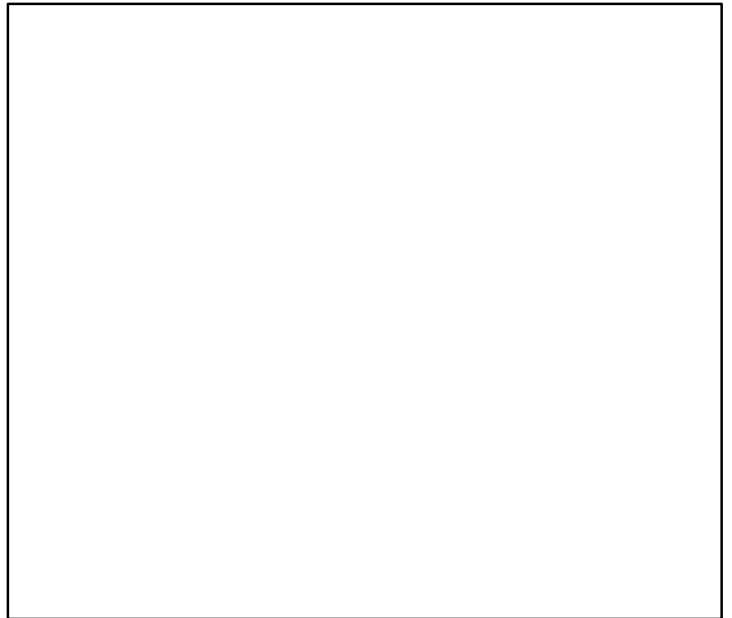
Kobe MGT*



Spawner Recruit*



Production*

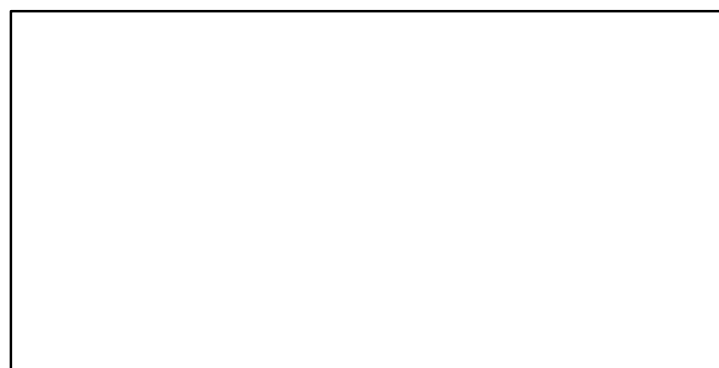
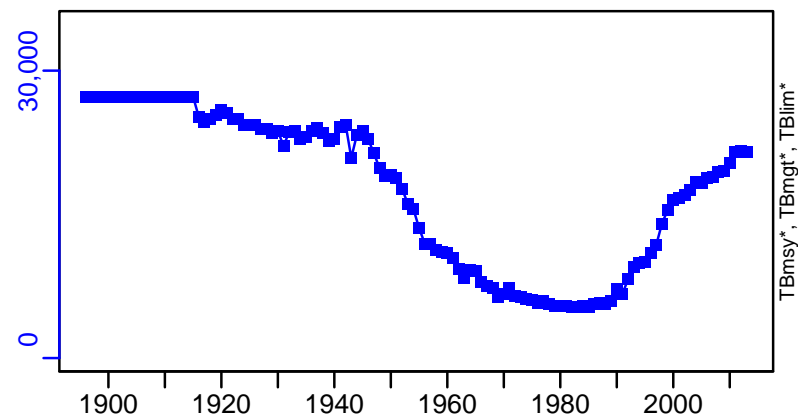


◆ Start Year ◆ End Year * No Data

Rex sole Pacific Coast [REXSOLEPCOAST]

TB-MT (1896–2012–SISIMP2016)

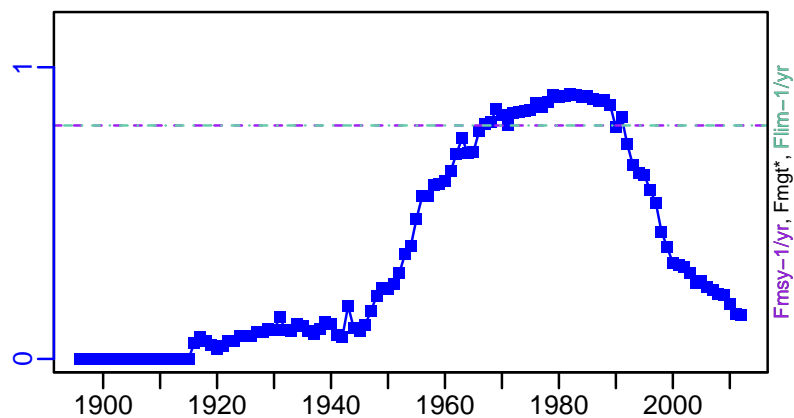
SSB*



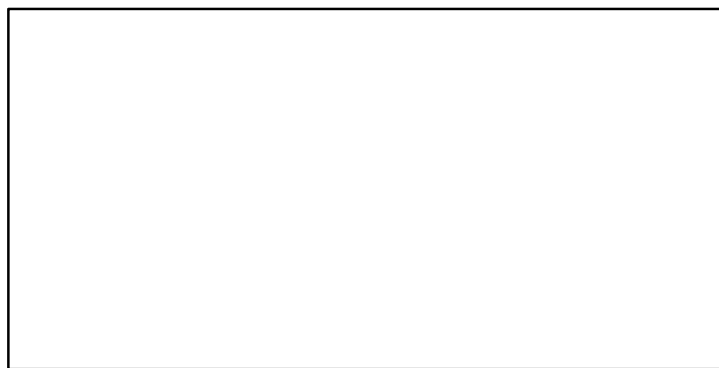
TN *



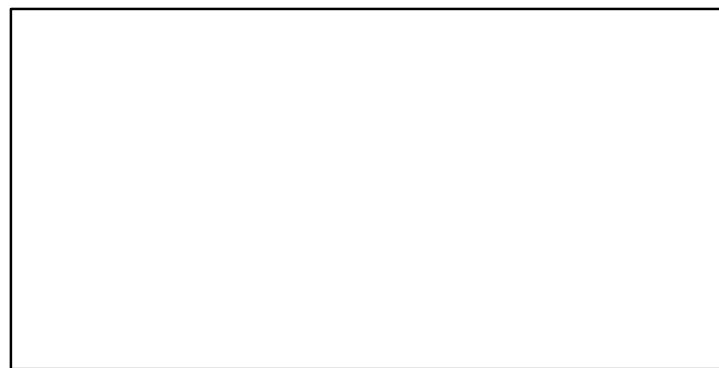
F-1/yr (1896–2012–SISIMP2016)



ER*



Recruits*



Rex sole Pacific Coast [REXSOLEPCOAST]

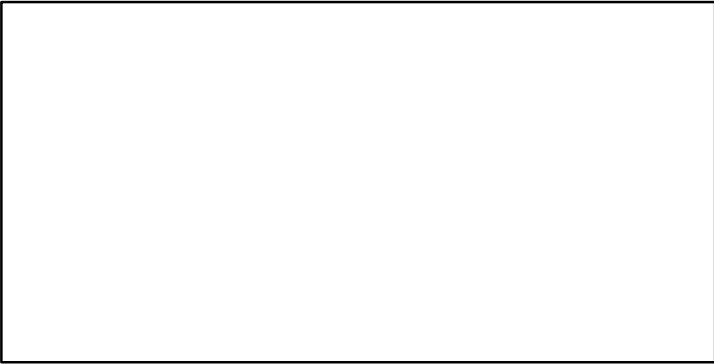
TC*, TL*, RecC*



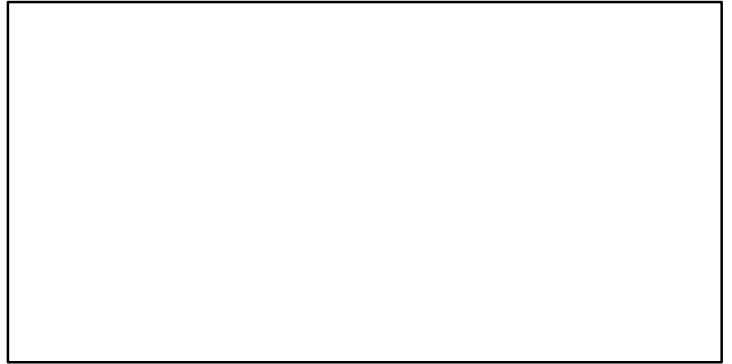
TAC*, Cpair*, Cadv*



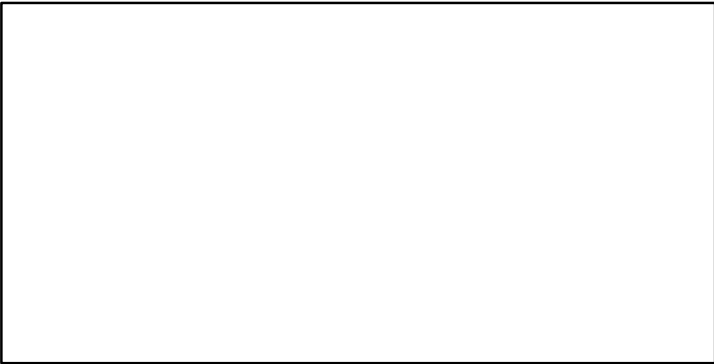
survB*



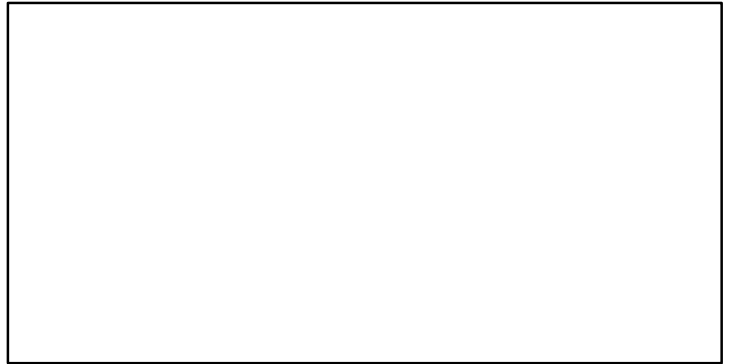
CPUE*



EFFORT*



CdivMSY*



Round nose flounder Sea of Japan [RSFLOUNSOJ]

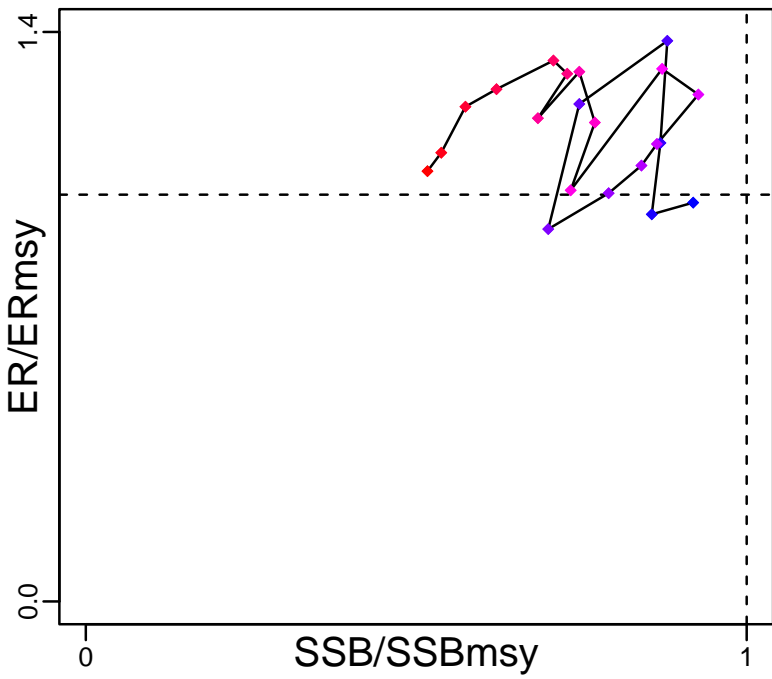
Metadata	
Scientific Name	Eopsetta grigorjewi
Current Assess ID	FAFRFJ-RSFLOUNSOJ-1966-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	5504
SSBmsy	SSBmsy-MT	2013	3830
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.285
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	1569
M	M-1/yr	2013	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

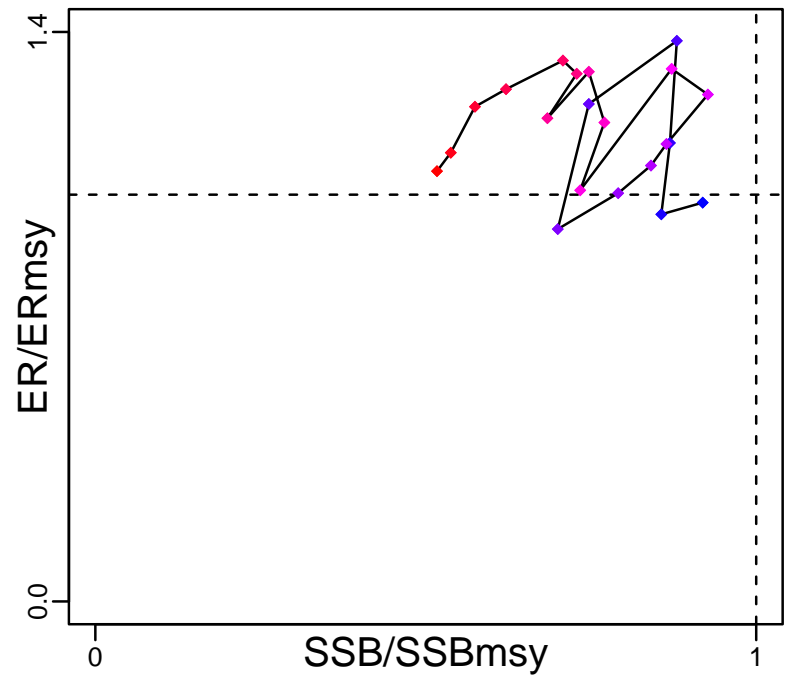
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	2740	-	1
SSB	SSB-MT	2013	1980	Both	3
TN	-	-	-	-	-
R	R-E00	2013	15,100,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.301	-	-
TC	TC-MT	2013	826		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.498		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.517		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.058		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Round nose flounder Sea of Japan [RSFLOUNSOJ]

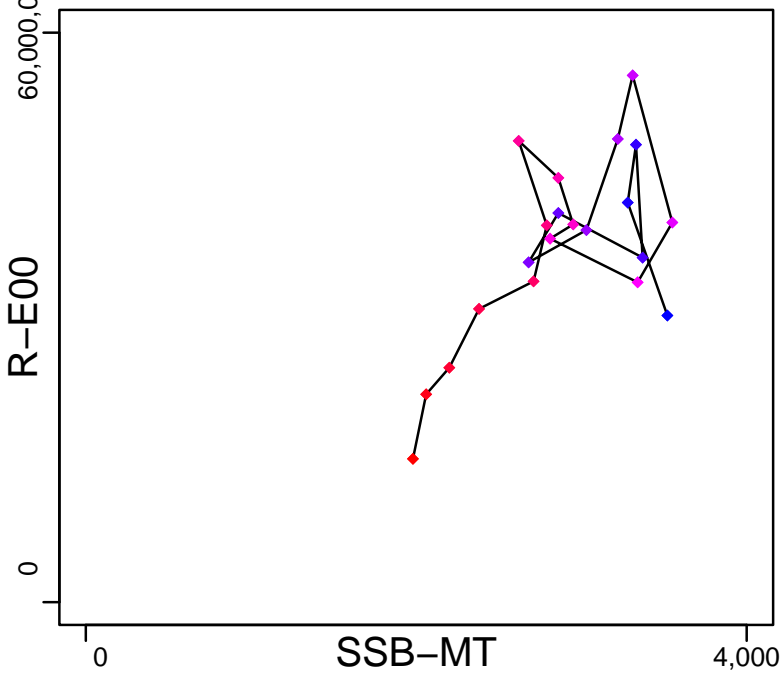
Kobe MSYpref (1966–2013–JPNIMP2016)



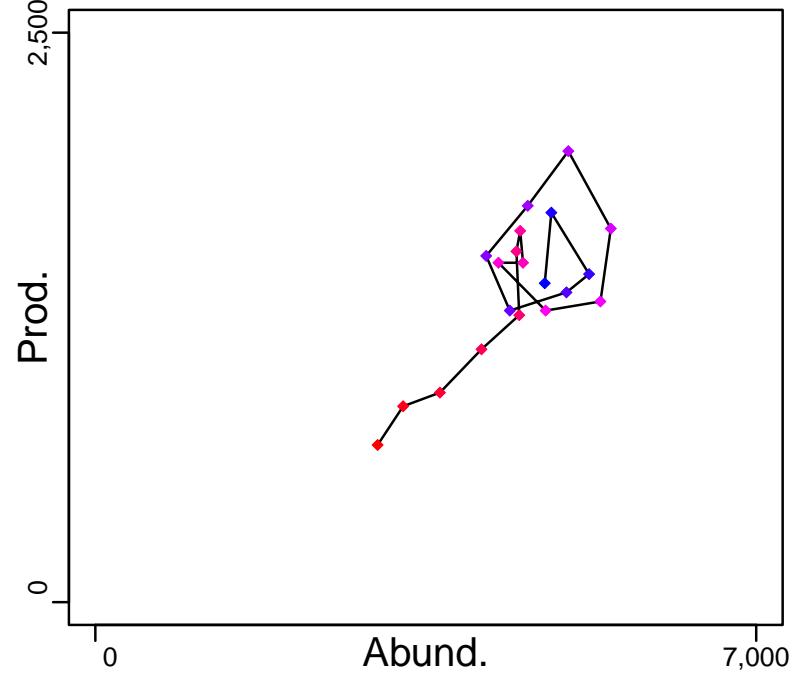
Kobe MGTpref (1966–2013–JPNIMP2016)



Spawner Recruit (1966–2013–JPNIMP2016)



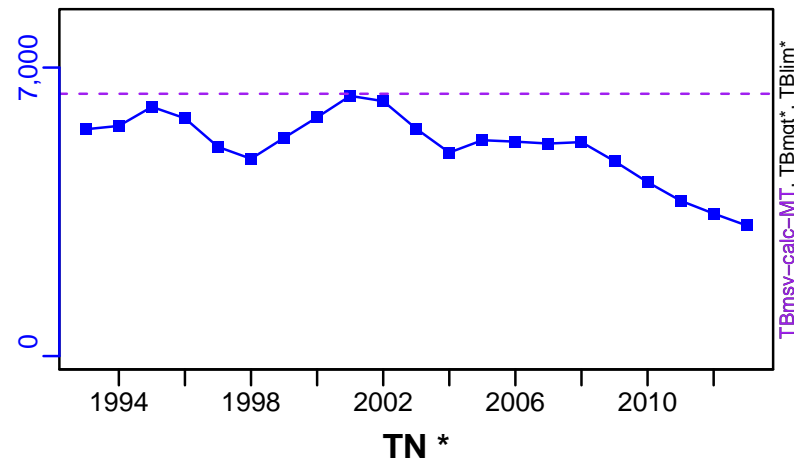
Production (1966–2013–JPNIMP2016)



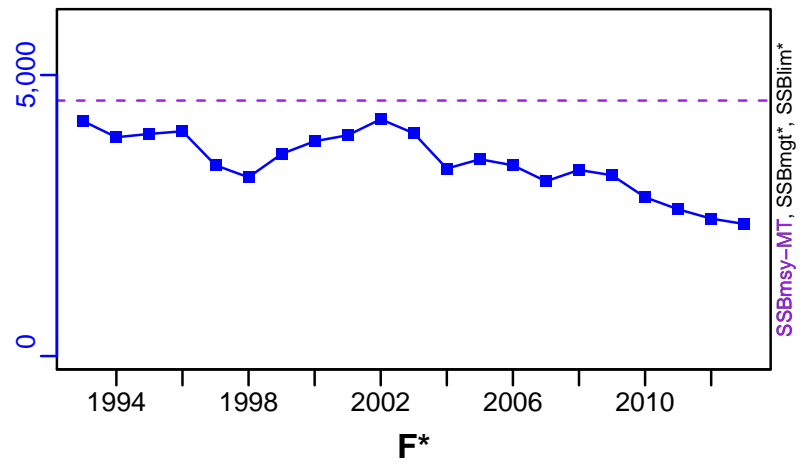
◆ Start Year ◆ End Year * No Data

Round nose flounder Sea of Japan [RSFLOUNSOJ]

TB-MT (1966-2013-JPNIMP2016)

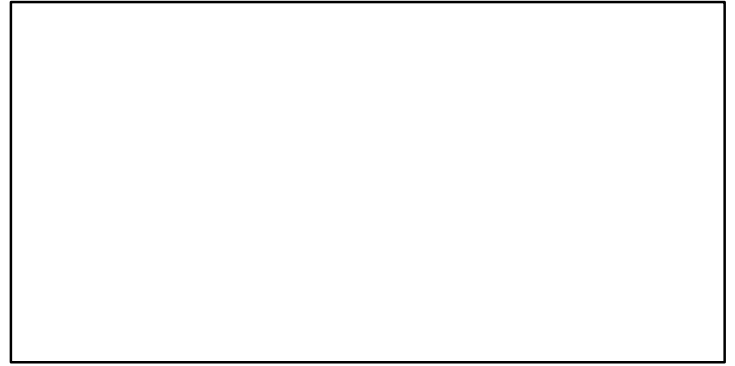
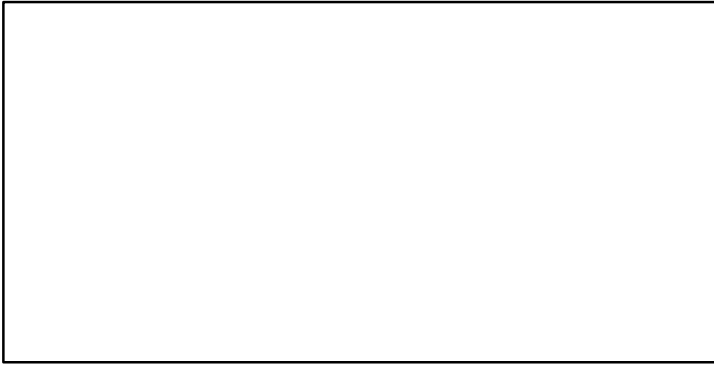


SSB-MT (1966-2013-JPNIMP2016)

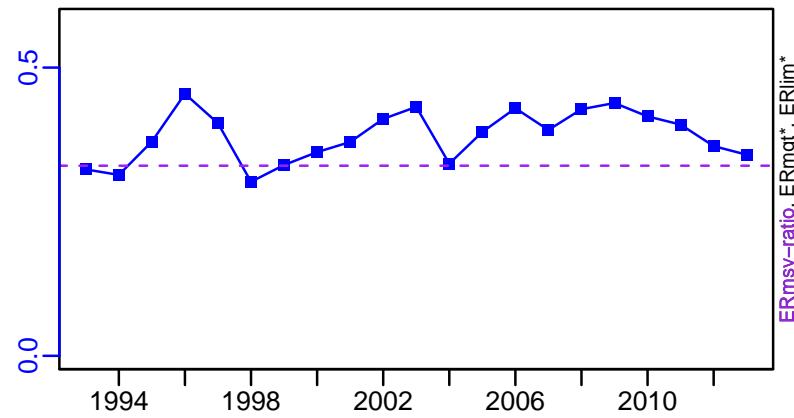


TN *

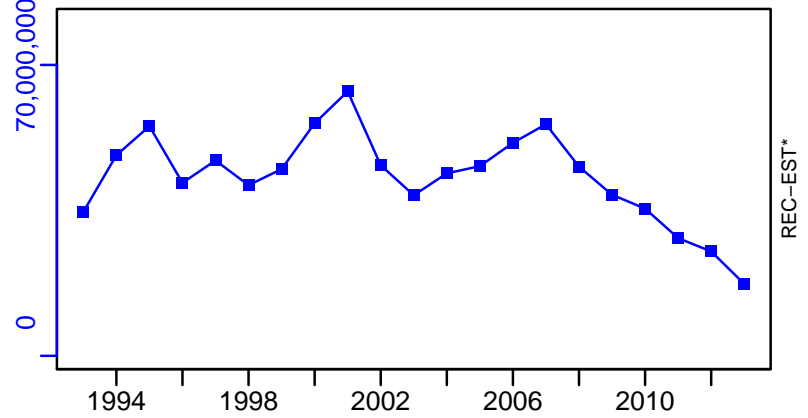
F*



ER-calc-ratio (1966-2013-JPNIMP2016)

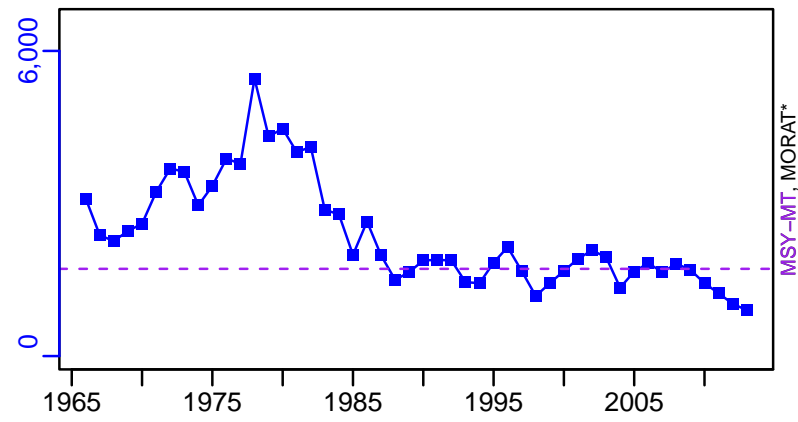


R-E00 (1966-2013-JPNIMP2016)



Round nose flounder Sea of Japan [RSFLOUNSOJ]

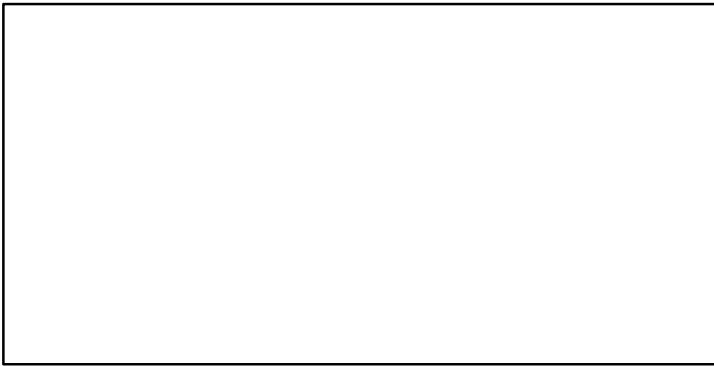
TC-MT, TL*, RecC* (1966–2013–JPNIMP2016)



TAC*, Cpair*, Cadv*



survB*



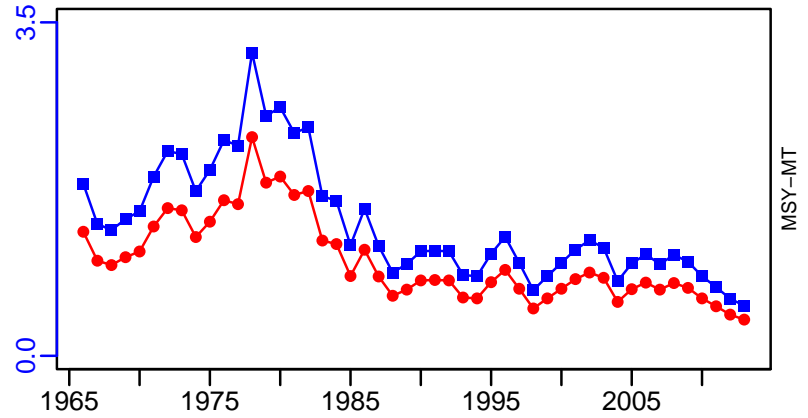
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1966–2013–JPNIMP2016)



- 1st listed time series (blue square)
- 2nd listed time series (red circle)
- 3rd listed time series (green triangle)
- MSY (purple dashed line)
- MORAT (grey line)
- No Data (*)

Rock sole Queen Charlotte Sound [RSOLE5AB]

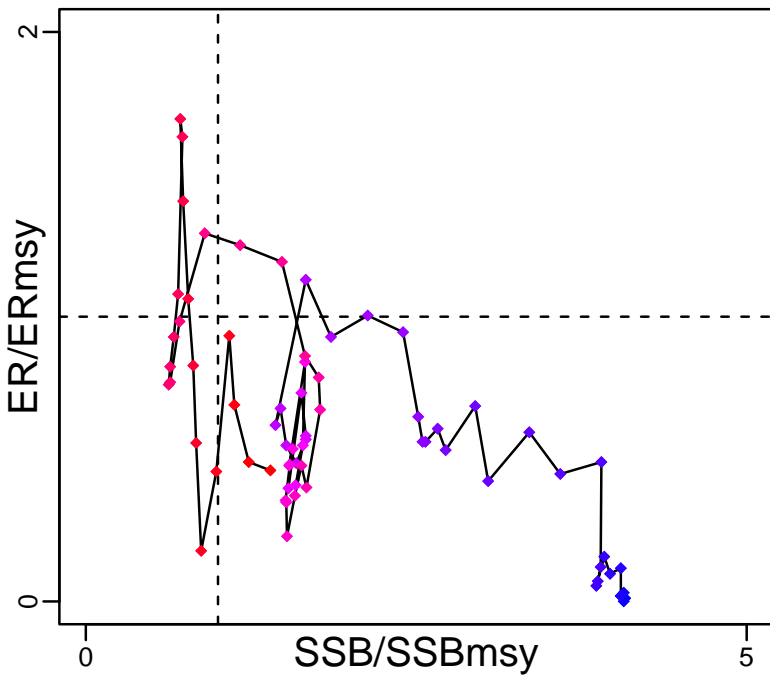
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	DFO-PAC-RSOLE5AB-1944-2014-OSGOOD
Area	Queen Charlotte Sound
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	2192
SSBmsy	SSBmsy-MT	2014	1833
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.239
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	1467
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.188
TB0	-	-	-
SSB0	SSB0-MT	2014	7479
MSY	MSY-MT	2014	524
M	M-1/yr	2014	0.251
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

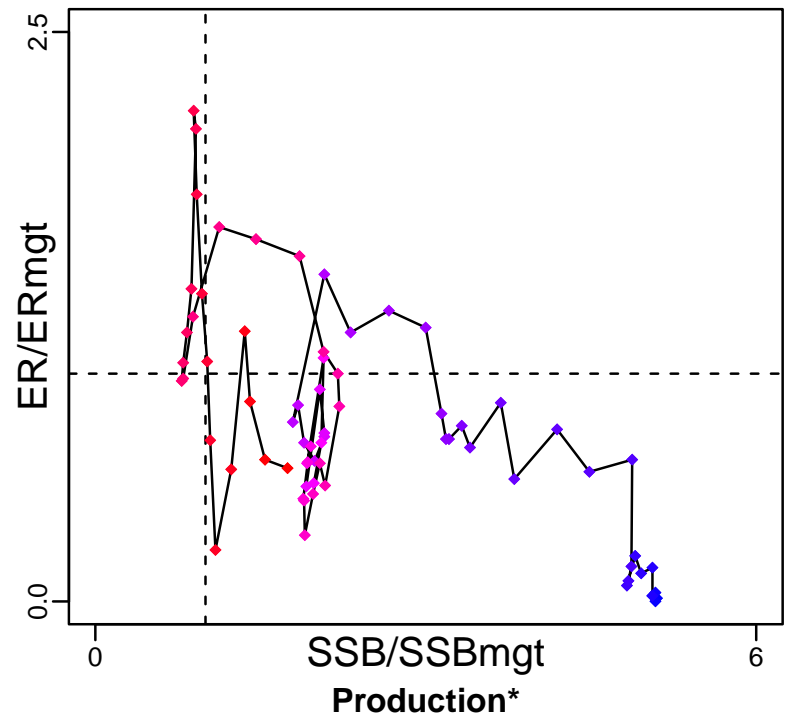
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2780	Females	5.6
TN	-	-	-	-	-
R	R-E00	2014	2,630,000	Females	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.11	Females	-
TC	TC-MT	2014	362		
TL	TL-MT	2014	337		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.517		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.46		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.895		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Queen Charlotte Sound [RSOLE5AB]

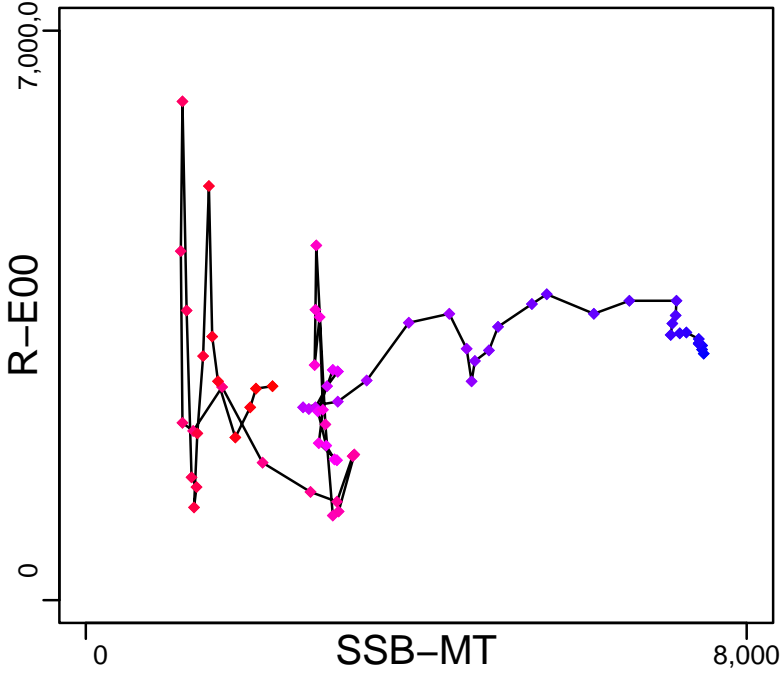
Kobe MSYpref (1944–2014–OSGOOD)



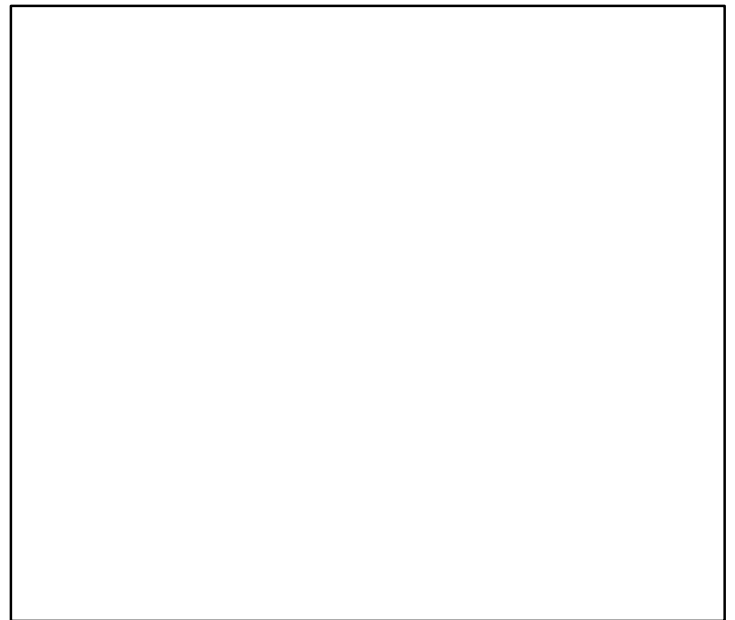
Kobe MGTpref (1944–2014–OSGOOD)



Spawner Recruit (1944–2014–OSGOOD)



Production*



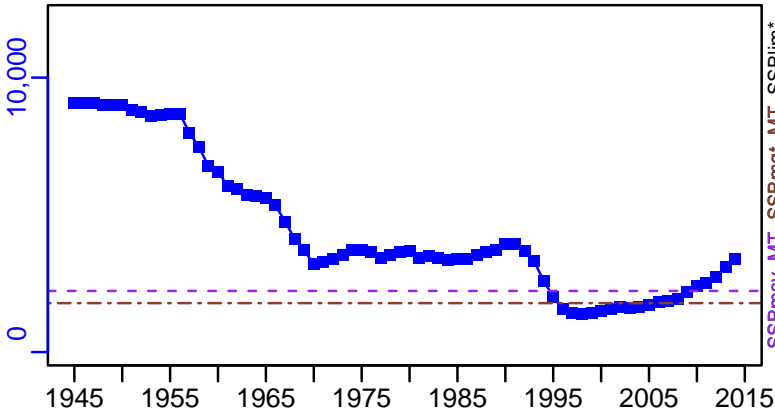
◆ Start Year ◆ End Year * No Data

Rock sole Queen Charlotte Sound [RSOLE5AB]

TB*



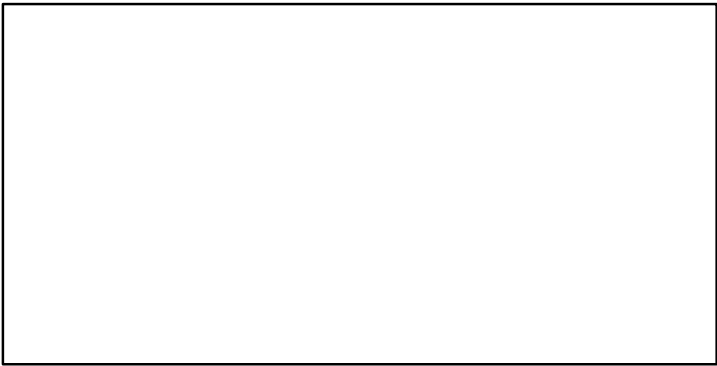
SSB-MT (1944–2014–OSGOOD)



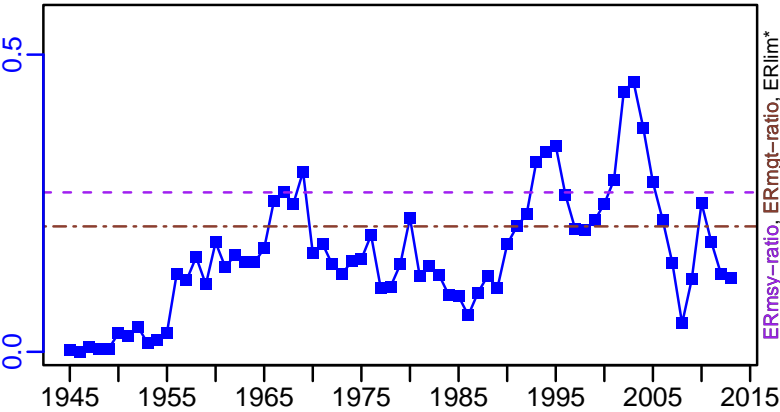
TN *



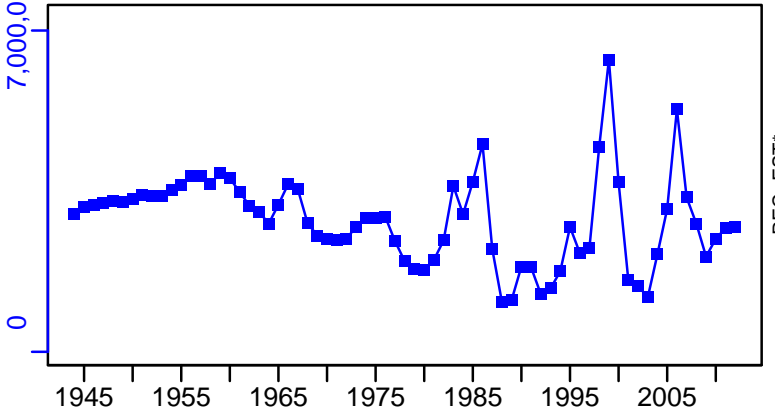
F*



ER-ratio (1944–2014–OSGOOD)



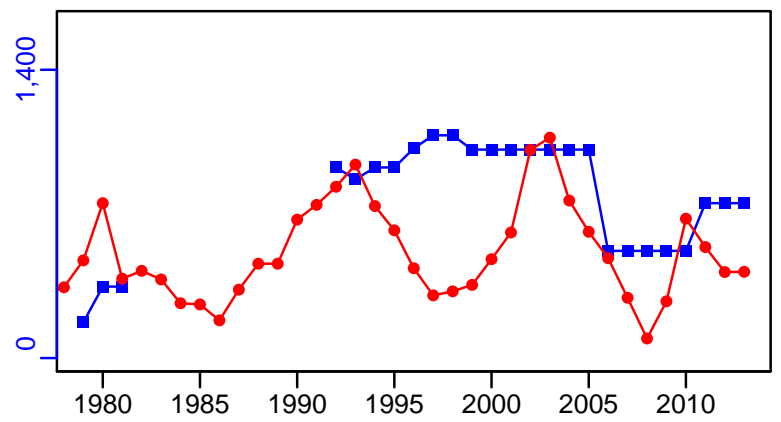
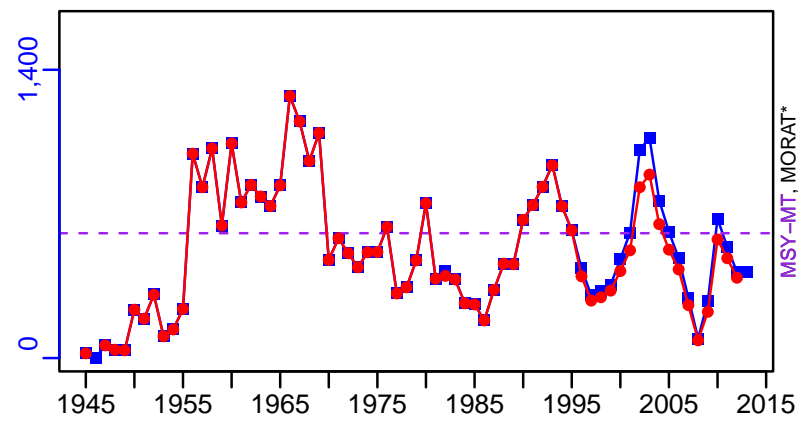
R-E00 (1944–2014–OSGOOD)



Rock sole Queen Charlotte Sound [RSOLE5AB]

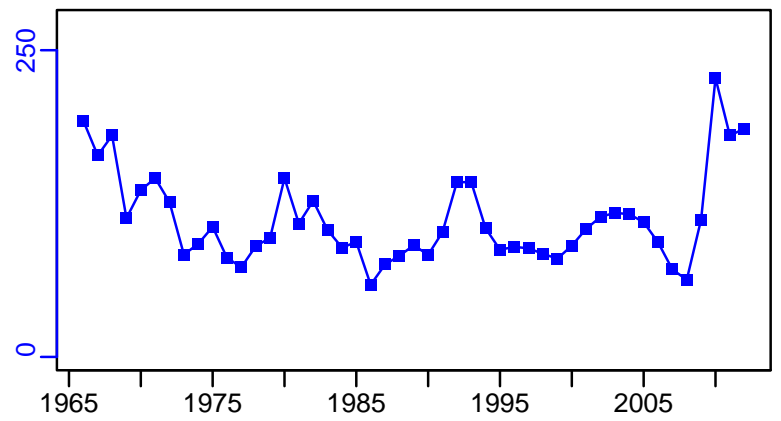
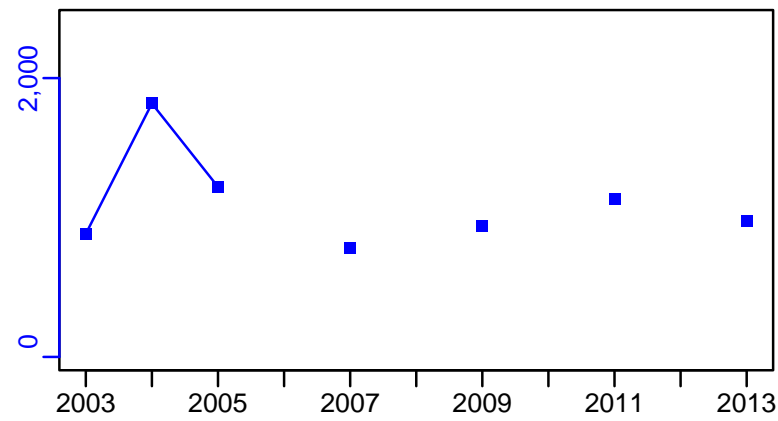
TC-MT, TL-MT, RecC* (1944-2014-OSGOOD)

TAC-MT, Cpair-MT, Cadv* (1944-2014-OSGOOD)



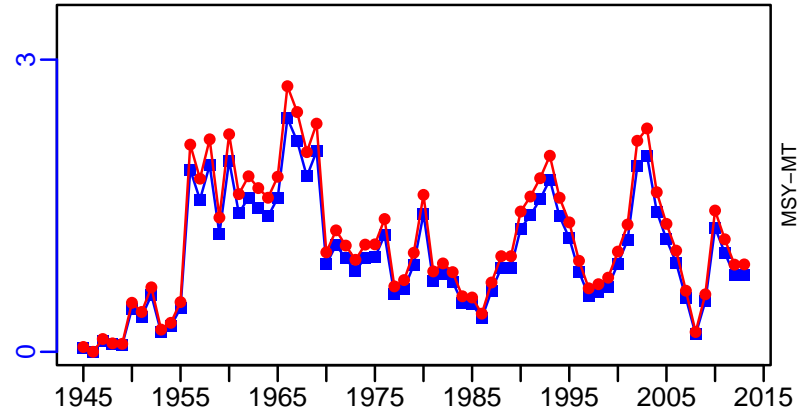
survB-MT (1944-2014-OSGOOD)

CPUE-kg/hour (1944-2014-OSGOOD)



EFFORT*

TC-MT/MSY-MT, CdivMEANC-ratio, (1944-2014-OSGOOD)



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

Rock sole Gulf of Alaska [RSOLEGA]

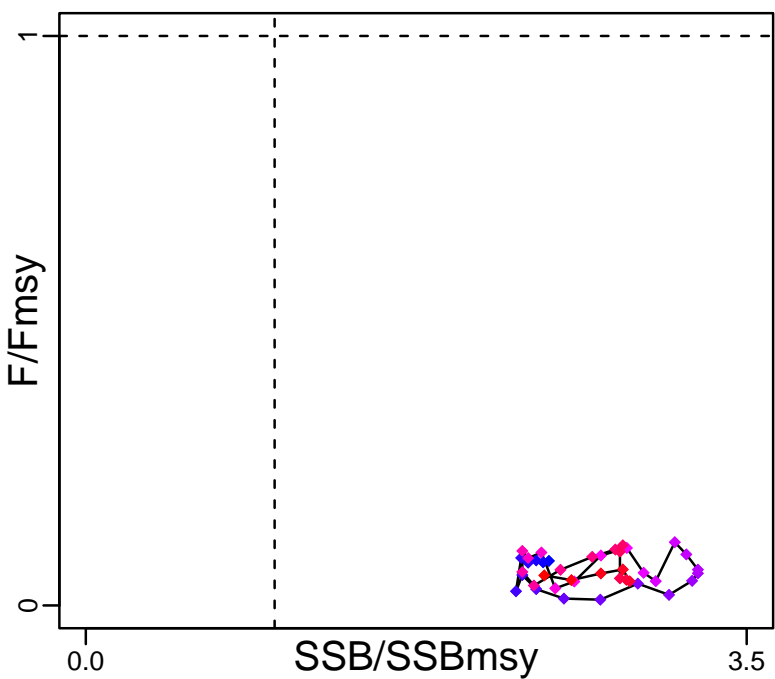
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	AFSC-RSOLEGA-1977-2017-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017

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

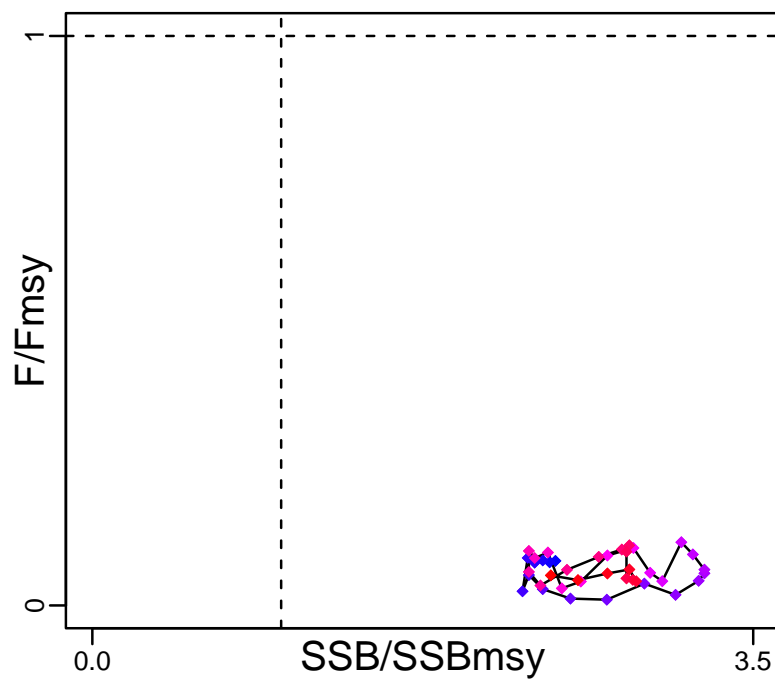
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	156,000	-	3+
SSB	SSB-MT	2017	76,100	-	-
TN	-	-	-	-	-
R	R-E00	2017	2.47×10^8	-	0
F	F-1/yr	2017	0.017	-	-
ER	ER-calc-ratio	2015	0.011	-	-
TC	TC-MT	2017	1500		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	2.327		
F/Fmsy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

Rock sole Gulf of Alaska [RSOLEGA]

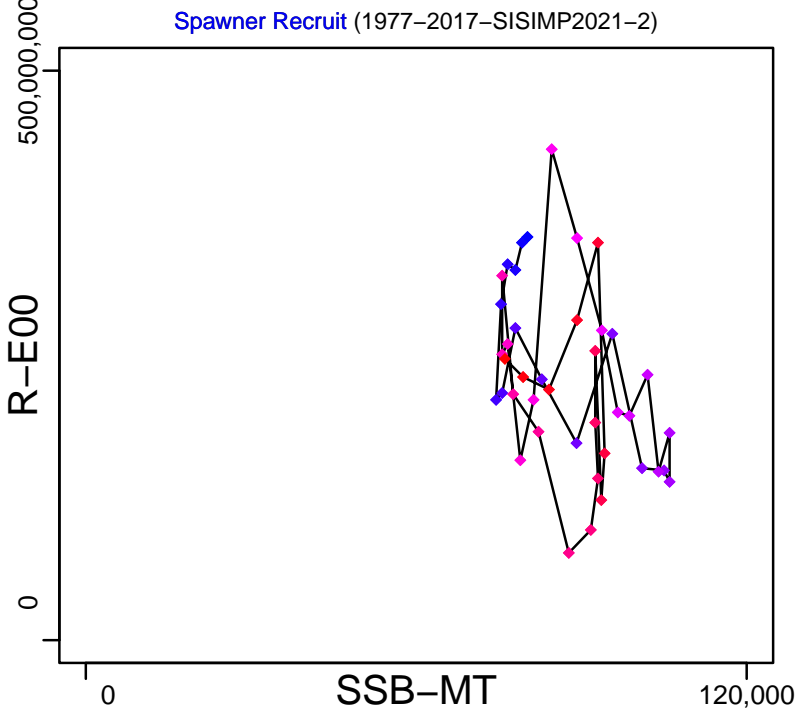
Kobe MSYpref (1977–2017–SISIMP2021–2)



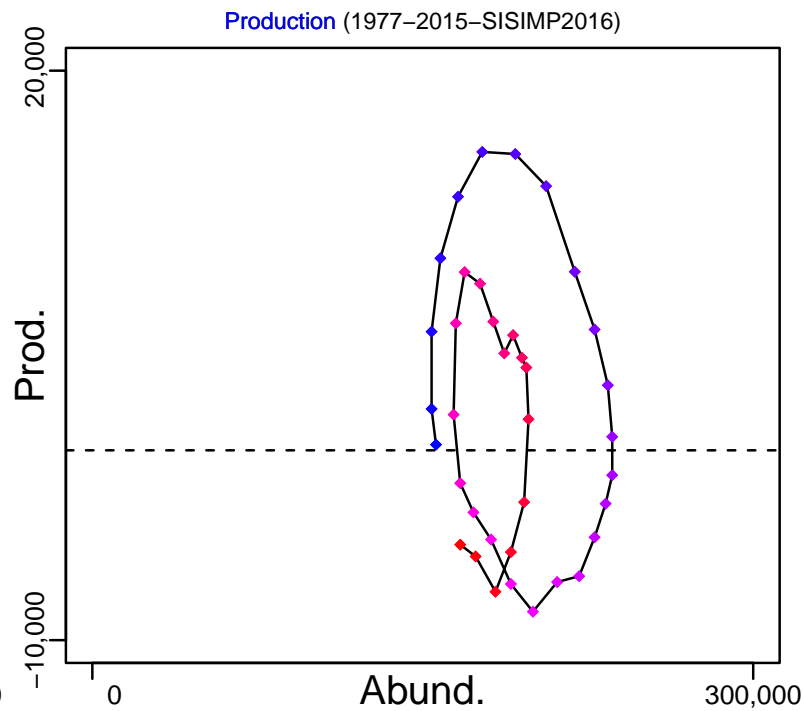
Kobe MGTpref (1977–2017–SISIMP2021–2)



Spawner Recruit (1977–2017–SISIMP2021–2)



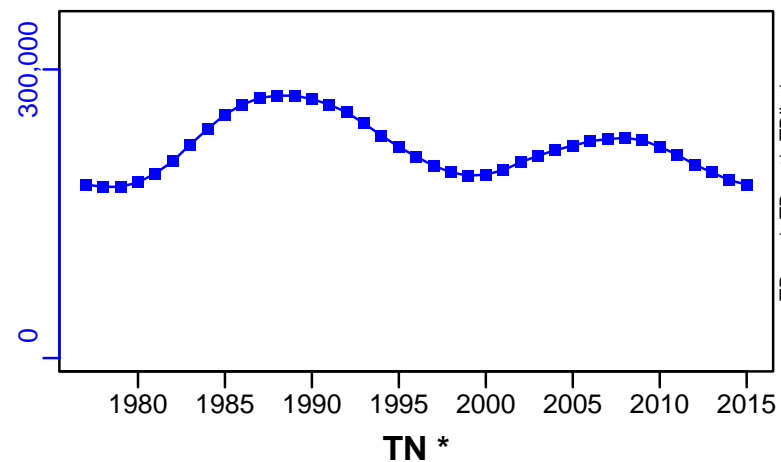
Production (1977–2015–SISIMP2016)



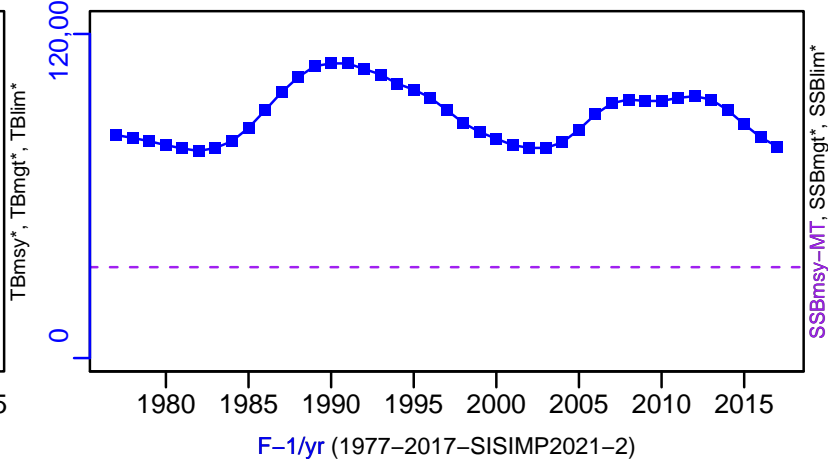
◆ Start Year ◆ End Year * No Data

Rock sole Gulf of Alaska [RSOLEGA]

TB-MT (1977-2015-SISIMP2016)



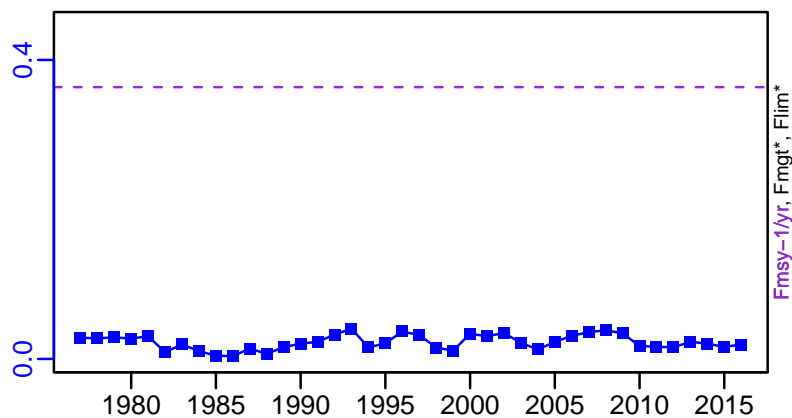
SSB-MT (1977-2017-SISIMP2021-2)



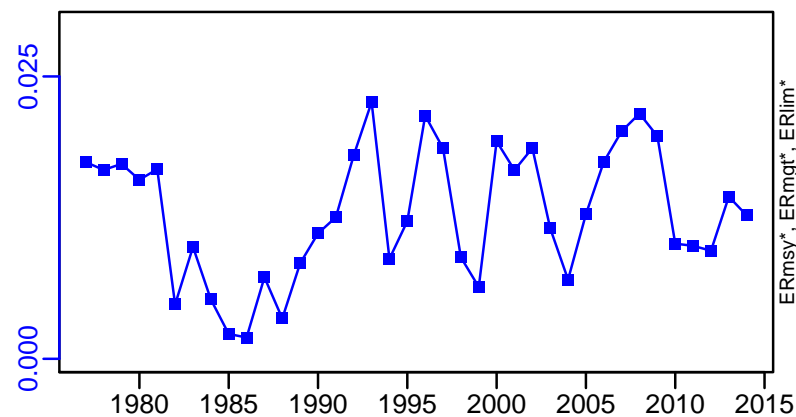
TN *



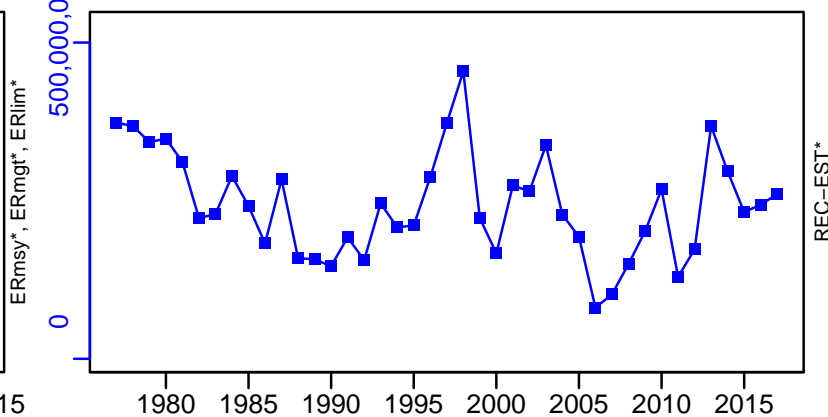
F-1/yr (1977-2017-SISIMP2021-2)



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

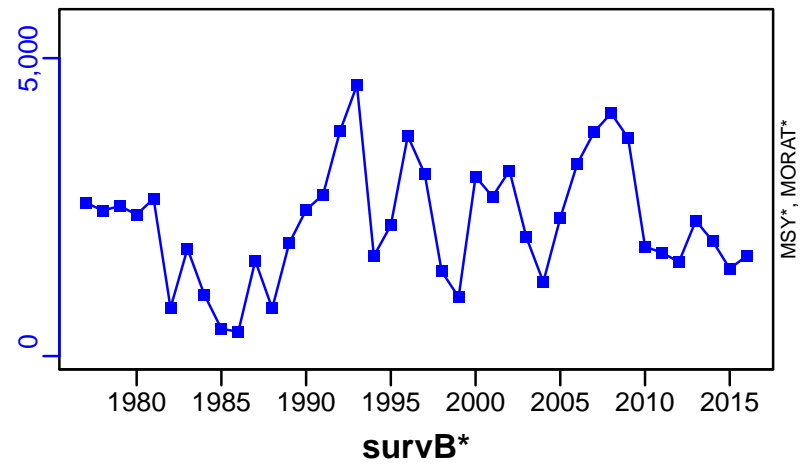


R-E00 (1977-2017-SISIMP2021-2)

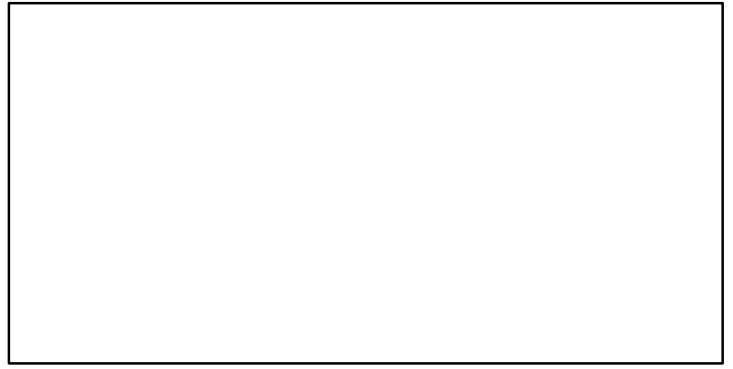


Rock sole Gulf of Alaska [RSOLEGA]

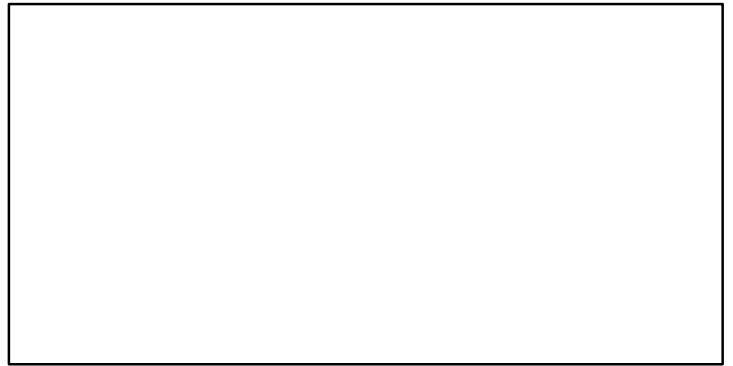
TC-MT, TL*, RecC* (1977-2017-SISIMP2021-2)



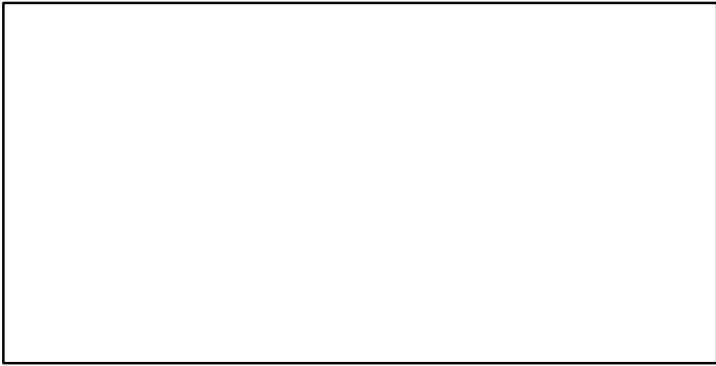
TAC*, Cpair*, Cadv*



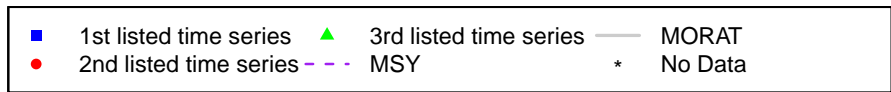
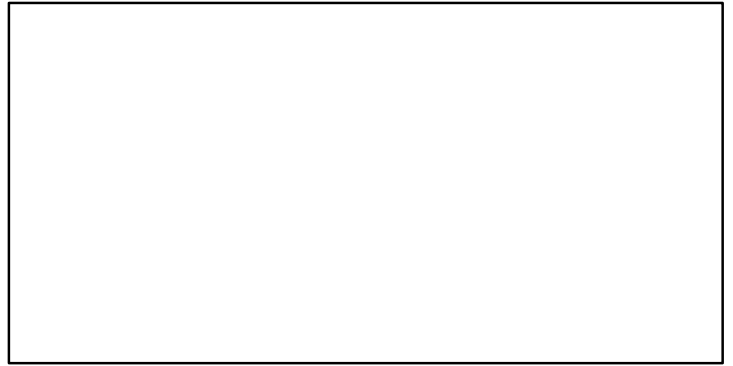
CPUE*



EFFORT*



CdivMSY*



Rock sole Hecate Strait [RSOLEHSTR]

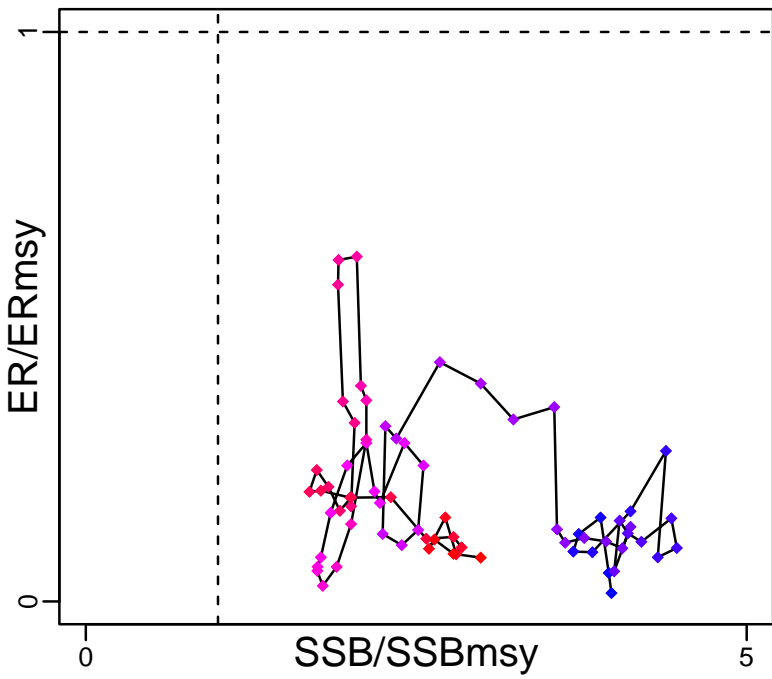
Metadata	
Scientific Name	Lepidopsetta bilineata
Current Assess ID	DFO-PAC-RSOLEHSTR-1945-2014-OSGOOD
Area	Hecate Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2001, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	3738
SSBmsy	SSBmsy-MT	2014	4853
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.507
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	3883
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.122
TB0	-	-	-
SSB0	SSB0-MT	2014	19,329
MSY	MSY-MT	2014	1895
M	M-1/yr	2014	0.251
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

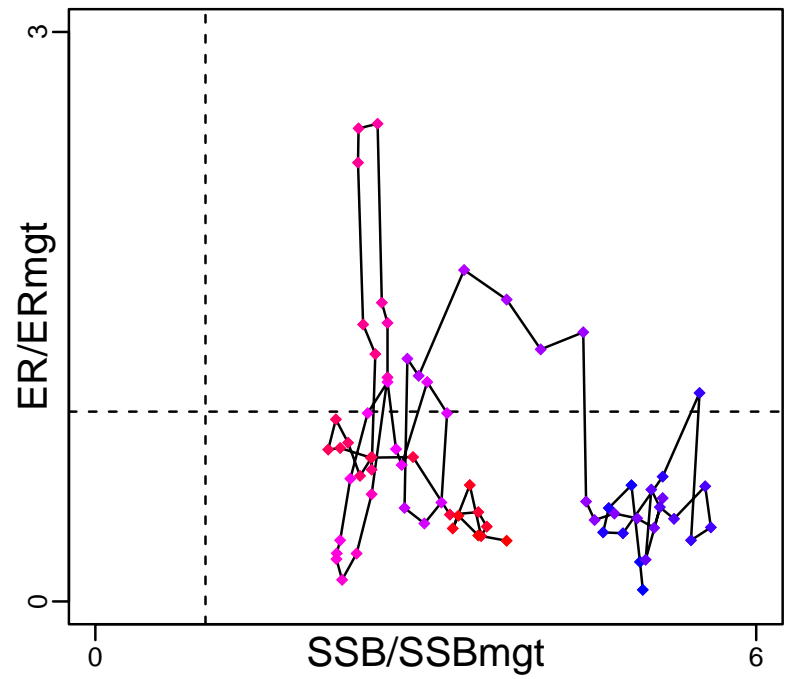
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2001	4850	-	4+
SSB	SSB-MT	2014	15,400	Females	5.6
TN	-	-	-	-	-
R	R-E00	2014	17,000	-	-
F	F-1/yr	2001	0.126	-	-
ER	ER-ratio	2014	0.039	Females	-
TC	TC-MT	2014	594		
TL	TL-MT	2014	500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	3.173		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.077		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	3.966		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock sole Hecate Strait [RSOLEHSTR]

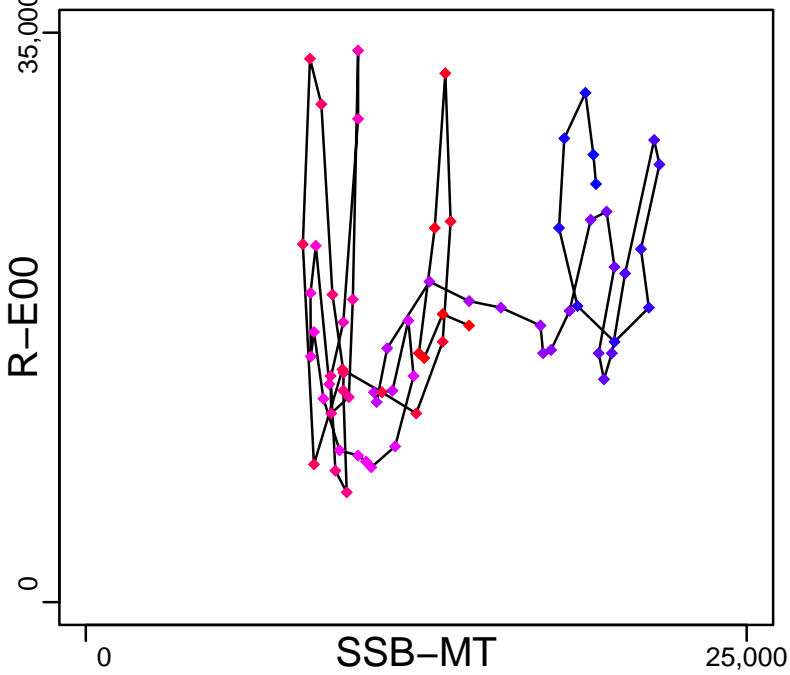
Kobe MSYpref (1945–2014–OSGOOD)



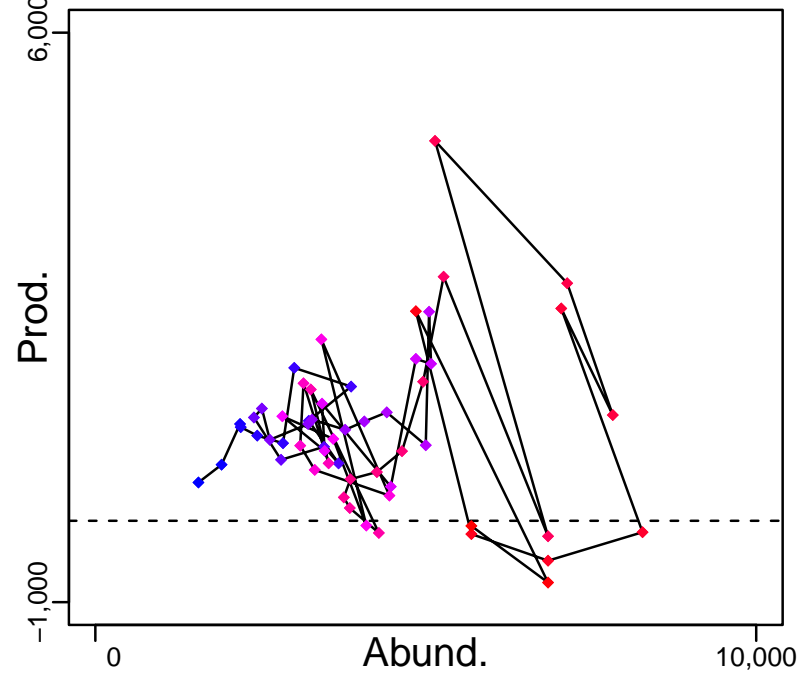
Kobe MGTpref (1945–2014–OSGOOD)



Spawner Recruit (1945–2014–OSGOOD)



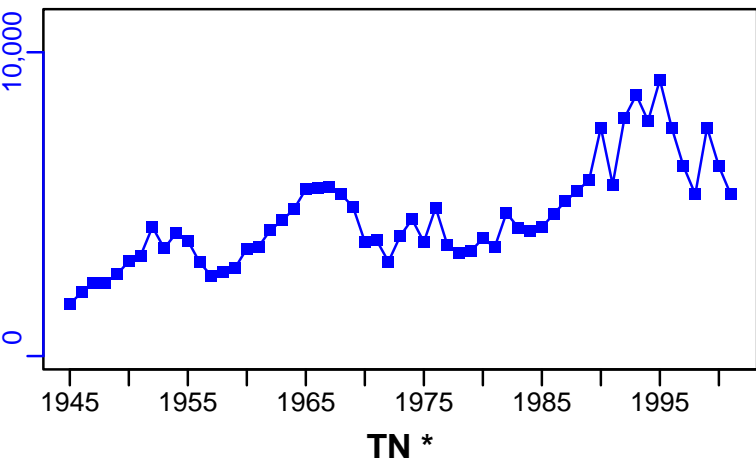
Production (1945–2001–COLLIE)



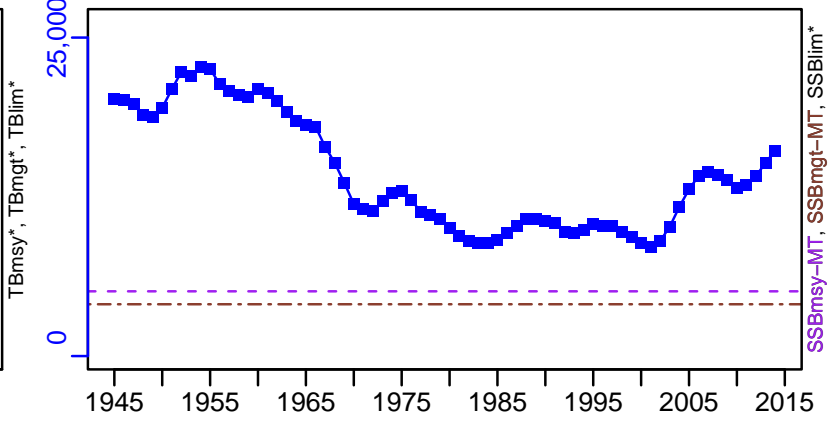
◆ Start Year ◆ End Year * No Data

Rock sole Hecate Strait [RSOLEHSTR]

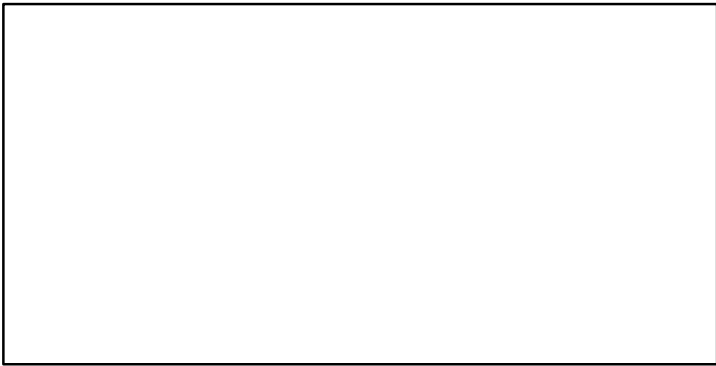
TB-MT (1945–2001–COLLIE)



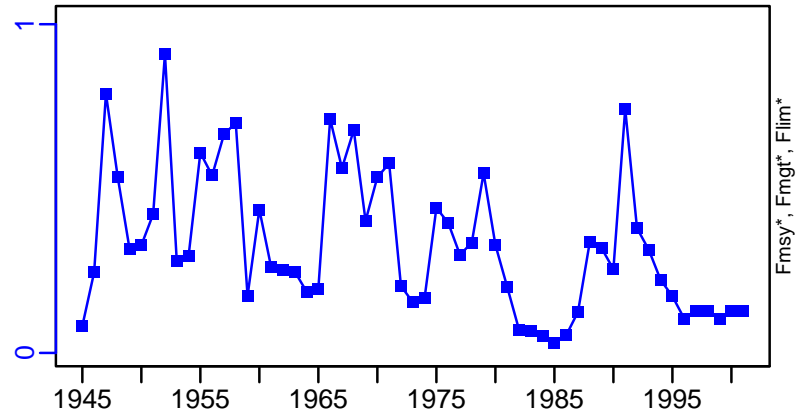
SSB-MT (1945–2014–OSGOOD)



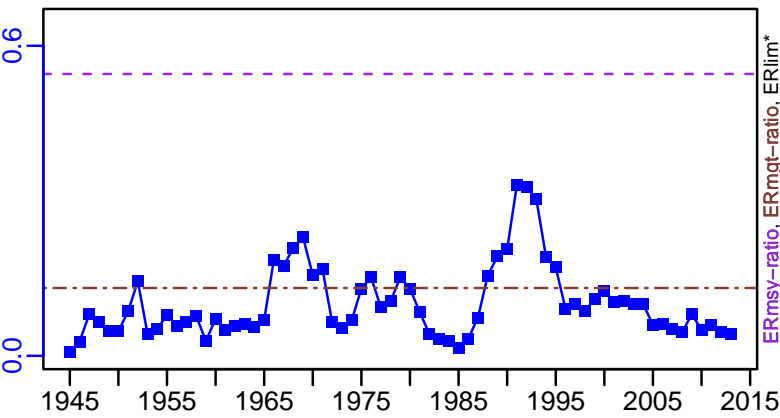
TN *



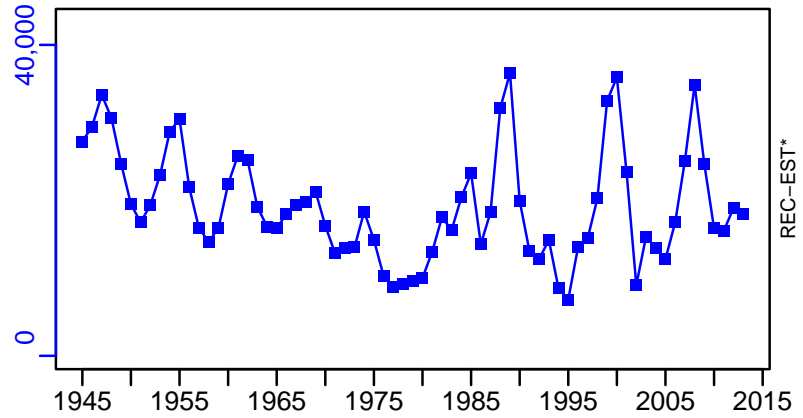
F-1/yr (1945–2001–COLLIE)



ER-ratio (1945–2014–OSGOOD)

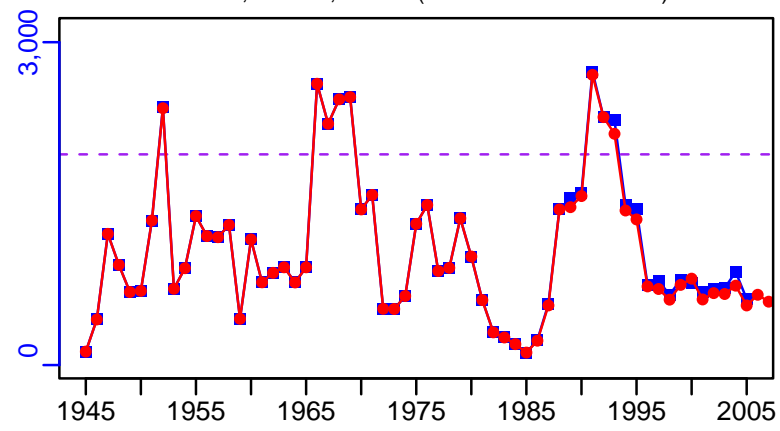


R-E00 (1945–2014–OSGOOD)

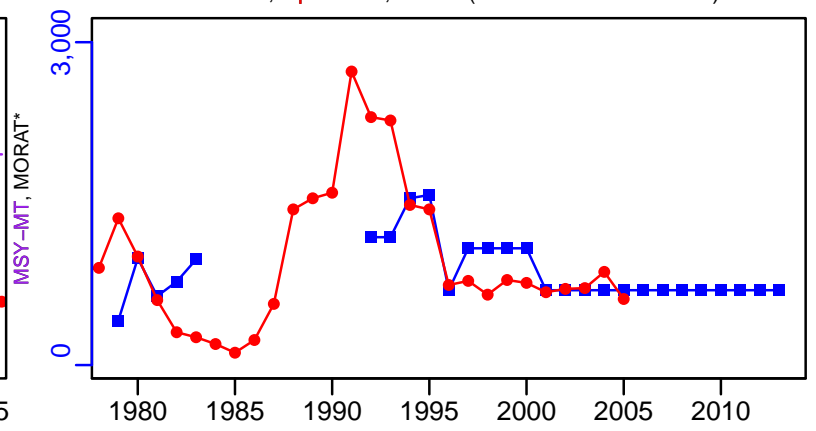


Rock sole Hecate Strait [RSOLEHSTR]

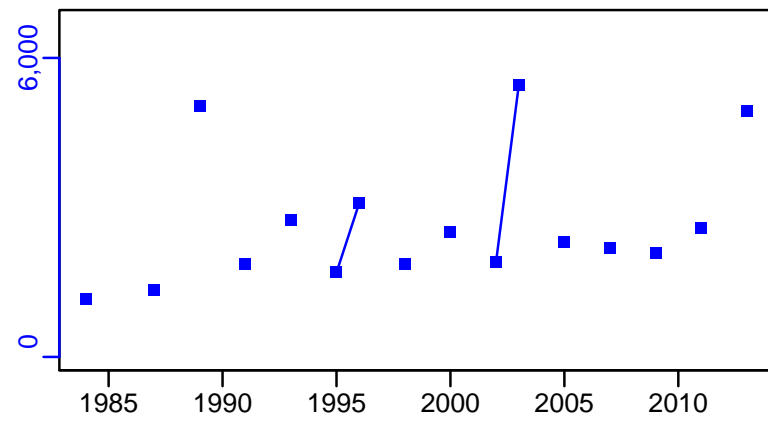
TC-MT, TL-MT, RecC* (1945-2014-OSGOOD)



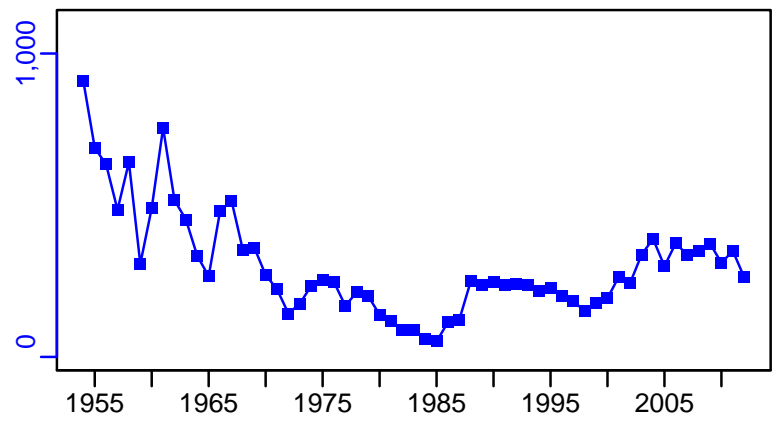
TAC-MT, Cpair-MT, Cadv* (1945-2014-OSGOOD)



survB-MT (1945-2014-OSGOOD)



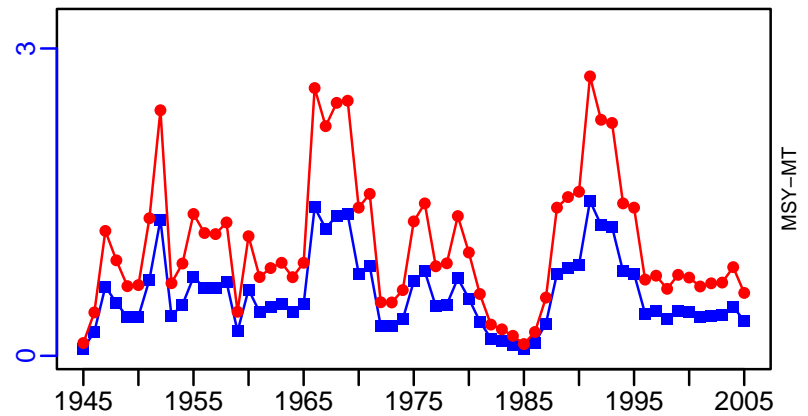
CPUE-kg/hour (1945-2014-OSGOOD)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1945-2014-OSGOOD)



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

Roughscale sole North Pacific [RSSOLENPAC]

Metadata	
Scientific Name	Clidoderma asperrimum
Current Assess ID	FAFRFJ-RSSOLENPAC-1971-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	197		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

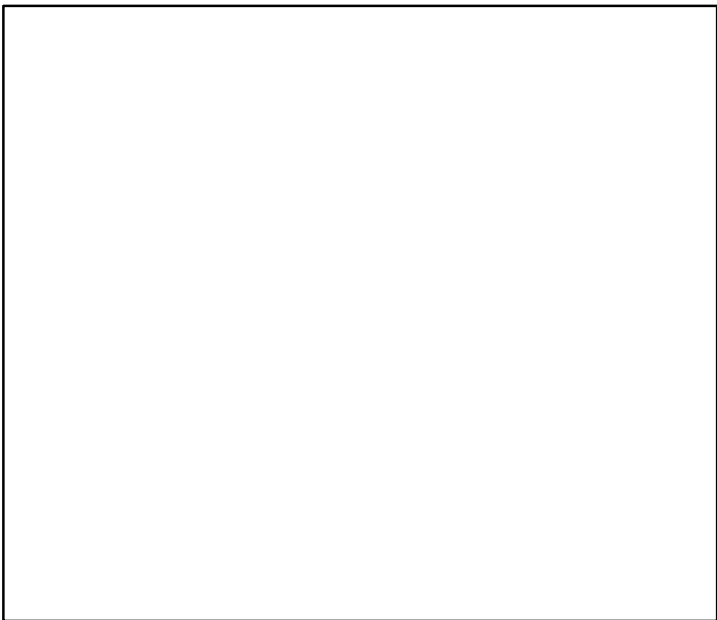
Kobe MSY*



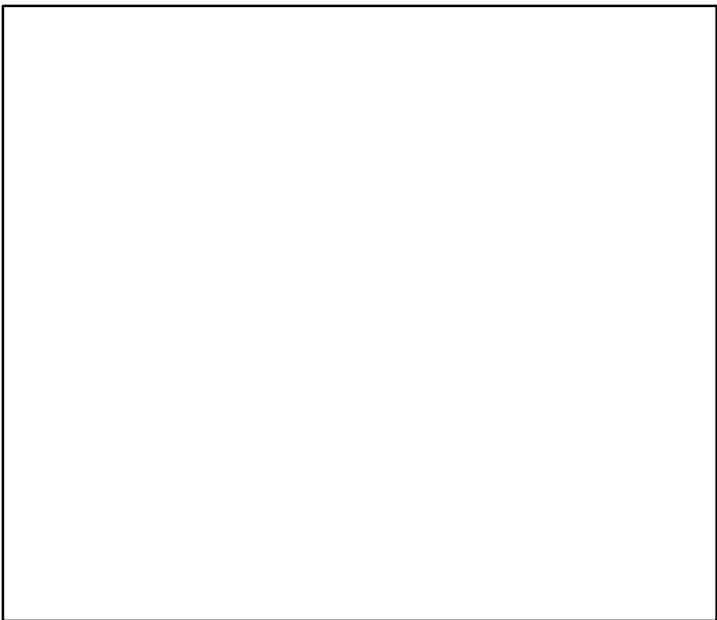
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Roughscale sole North Pacific [RSSOLENPAC]

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

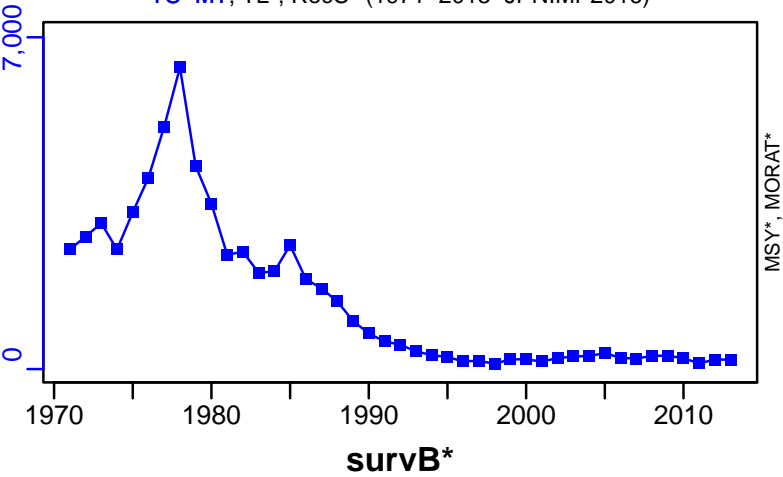
--- Lim BRP

— Rec-Est

* No Data

Roughscale sole North Pacific [RSSOLENPAC]

TC-MT, TL*, RecC* (1971-2013-JPNIMP2016)



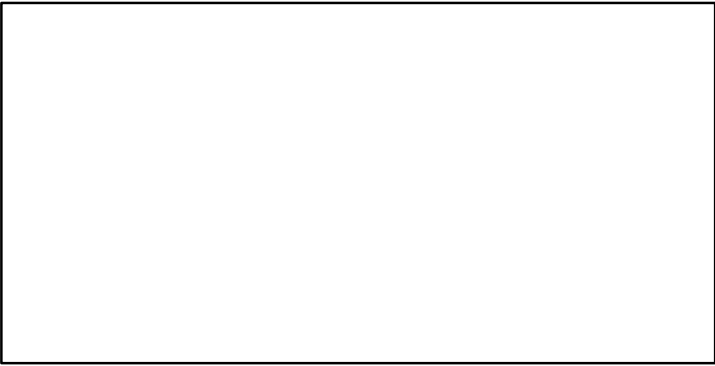
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

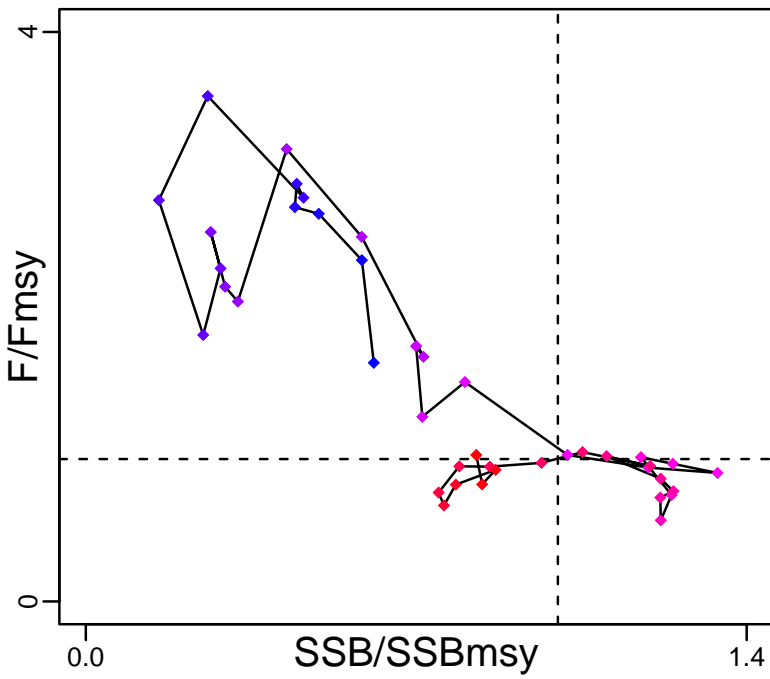
Metadata	
Scientific Name	Paralichthys dentatus
Current Assess ID	NEFSC-SFLOUNMATLC-1982-2022-SISIMP2024
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2014, 2015, 2017, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	49,561
Fmsy	Fmsy-1/yr	2022	0.451
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	14,097
M	M-1/yr	2012	0.25
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	24,780
Flim	Flim-1/yr	2019	0.422
ERlim	-	-	-

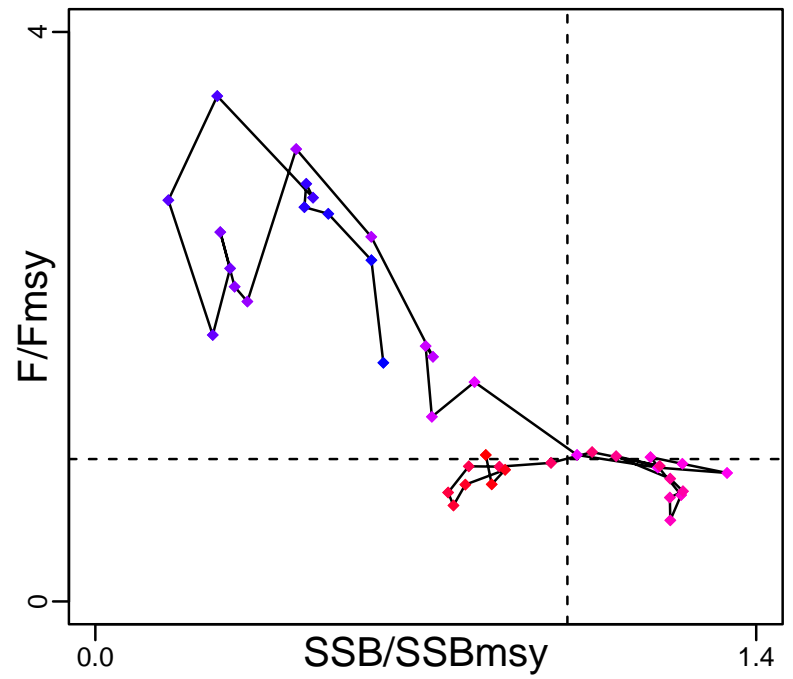
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2022	40,994	-	-
TN	TN-E00	2012	1.17×10^8	-	-
R	R-E00	2022	38,371	-	0
F	F-1/yr	2022	0.464	-	4+
ER	-	-	-	-	-
TC	TC-MT	2022	11,615		
TL	TL-MT	2012	6050		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.827		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	1.029		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

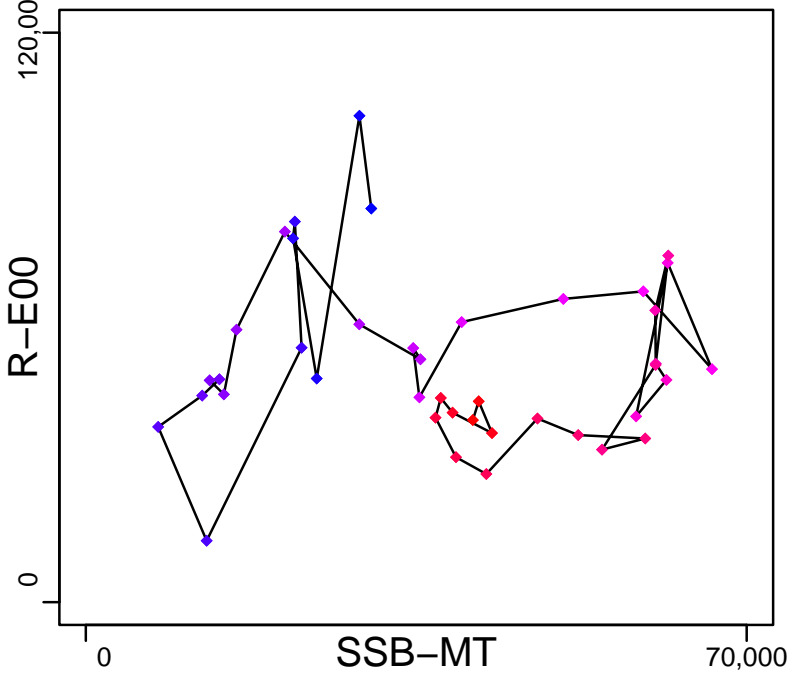
Kobe MSYpref (1982–2022–SISIMP2024)



Kobe MGTpref (1982–2022–SISIMP2024)



Spawner Recruit (1982–2022–SISIMP2024)



Production*



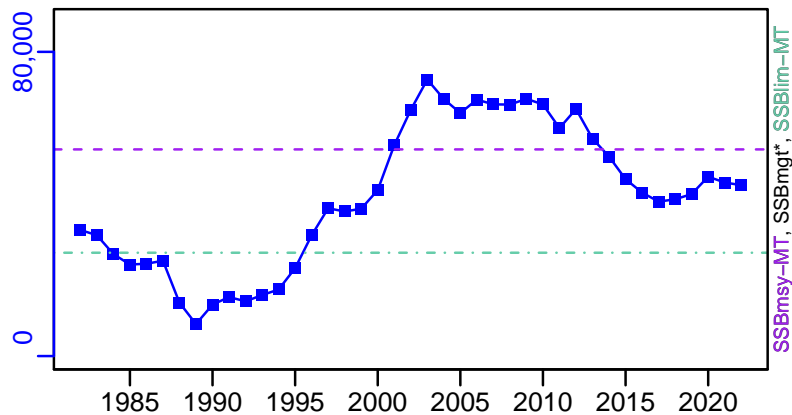
◆ Start Year ◆ End Year * No Data

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

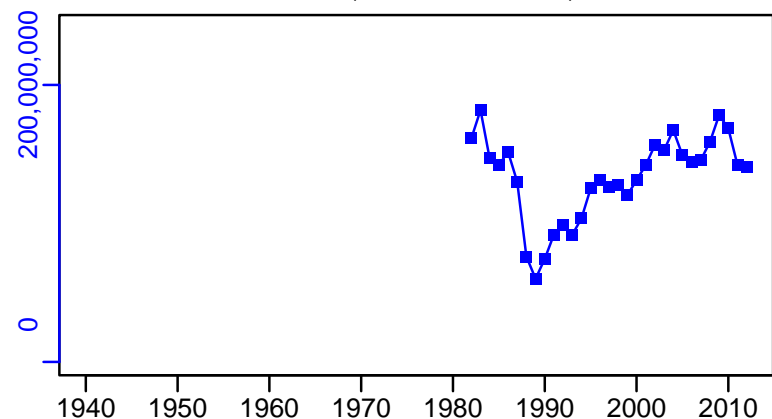
TB*



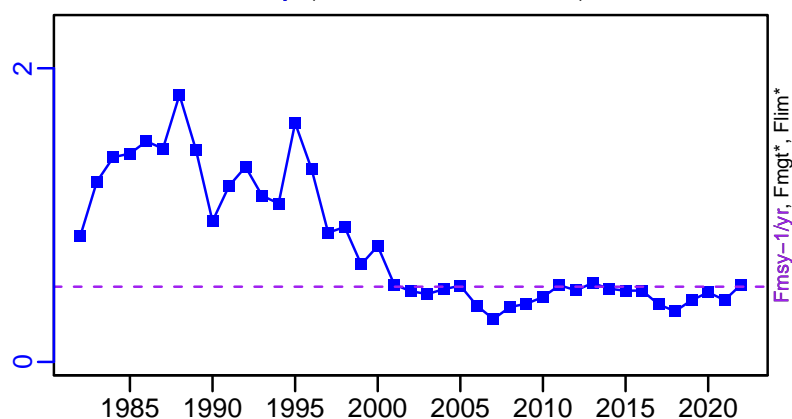
SSB-MT (1982-2022-SISIMP2024)



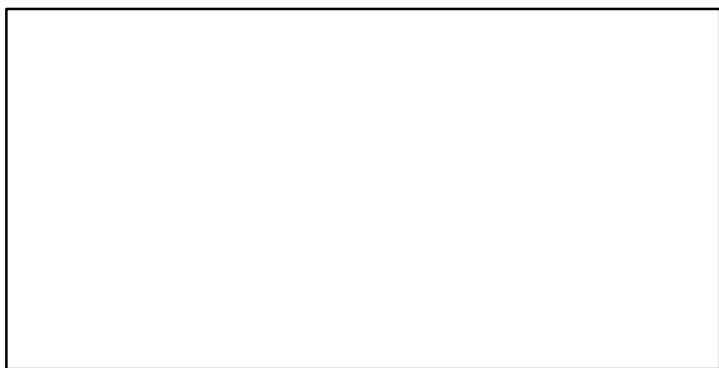
TN-E00 (1940-2012-HIVELY)



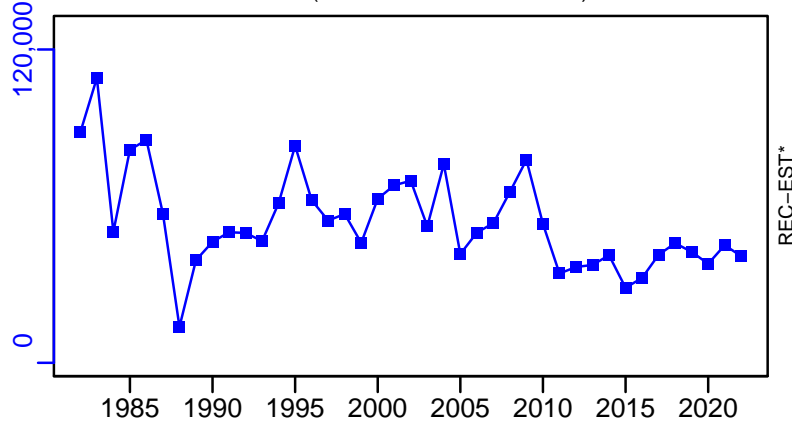
F-1/yr (1982-2022-SISIMP2024)



ER*



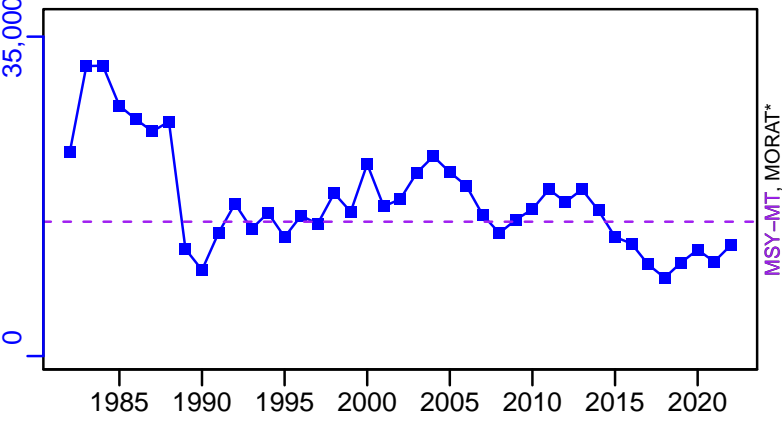
R-E00 (1982-2022-SISIMP2024)



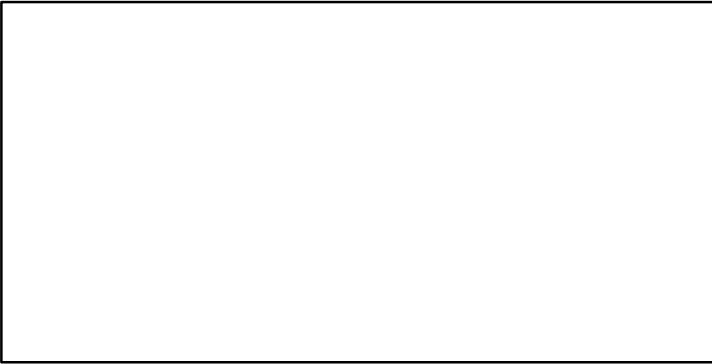
Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

TC-MT, TL*, RecC* (1982-2022-SISIMP2024)

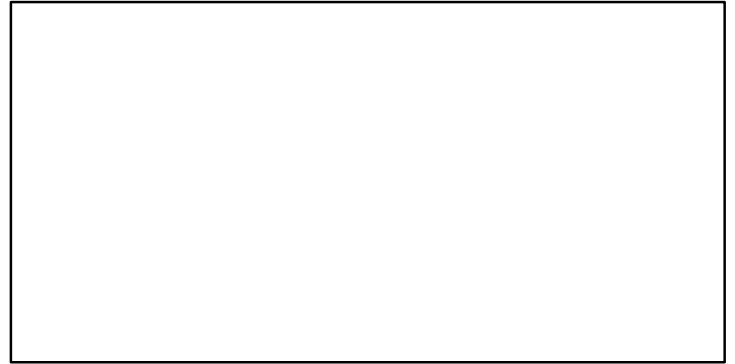
TAC*, Cpair*, Cadv*



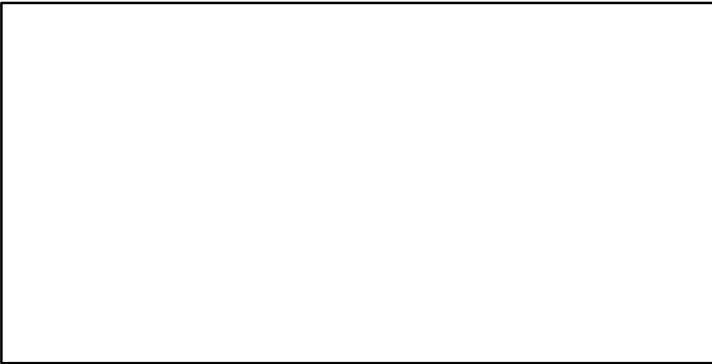
survB*



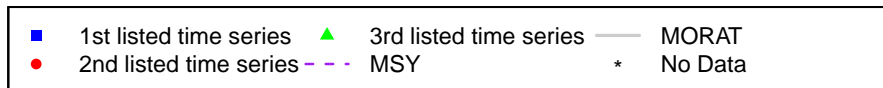
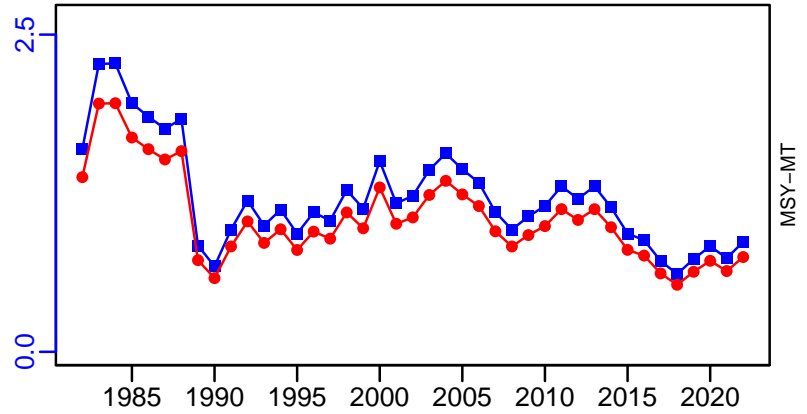
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2022-SISIMP2024)



Common sole Celtic Sea [SOLECS]

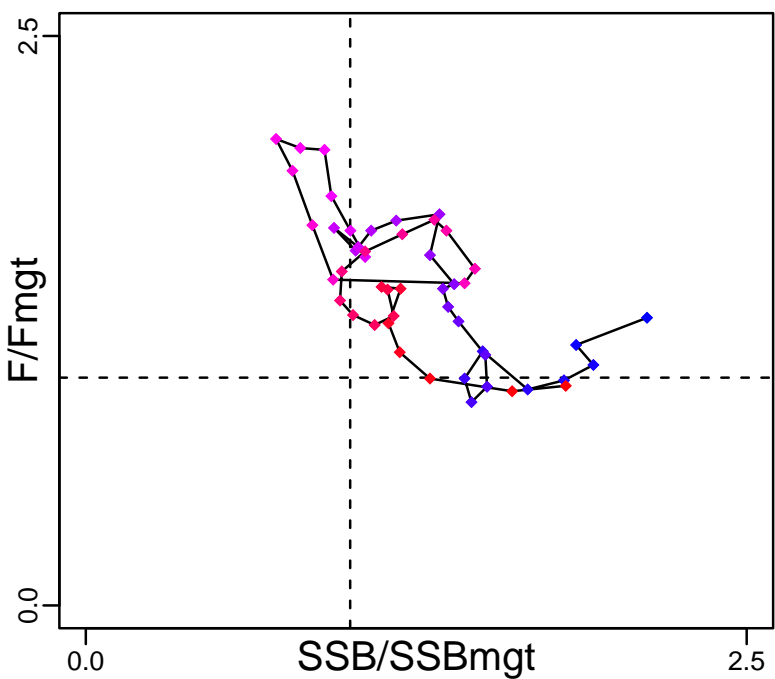
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLECS-1971-2021-ICESIMP2021-2
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.251
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	3057
Fmgt	Fmgt-1/yr	2021	0.251
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2180
Flim	Flim-1/yr	2021	0.543
ERlim	-	-	-

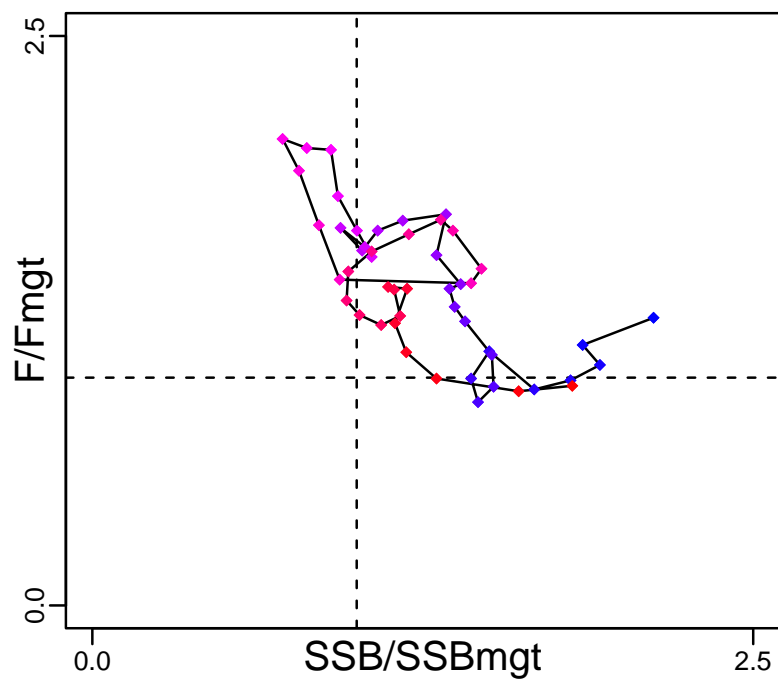
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	6924	-	-
SSB	SSB-MT	2021	6140	-	-
TN	-	-	-	-	-
R	R-E00	2021	5,060,000	-	1
F	F-1/yr	2021	0.269	-	-
ER	ER-calc-ratio	2019	0.156	-	-
TC	TC-MT	2019	997		
TL	TL-MT	2021	1520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.071		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	2.058		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.071		
ER/ERmgt	-	-	-		

Common sole Celtic Sea [SOLECS]

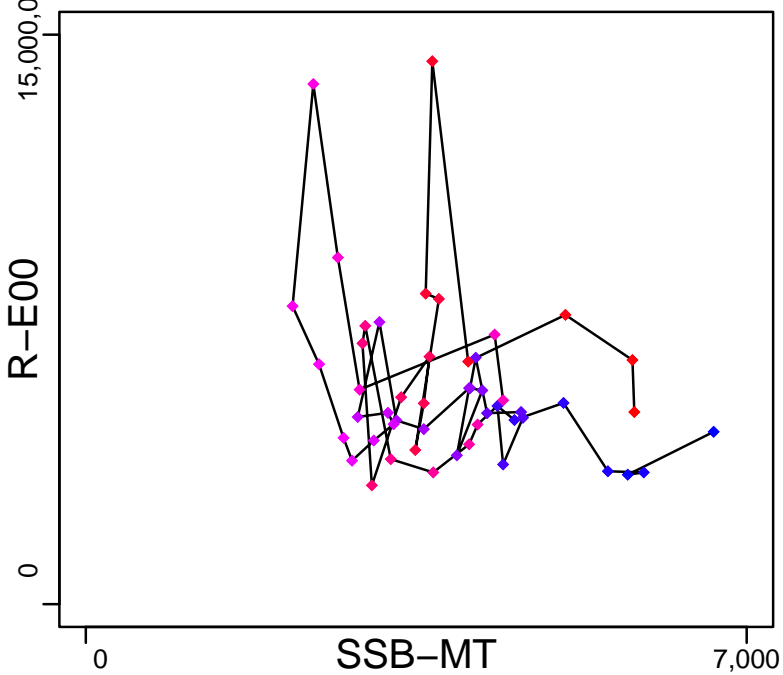
Kobe MSYpref (1971–2020–ICESIMP2021–2)



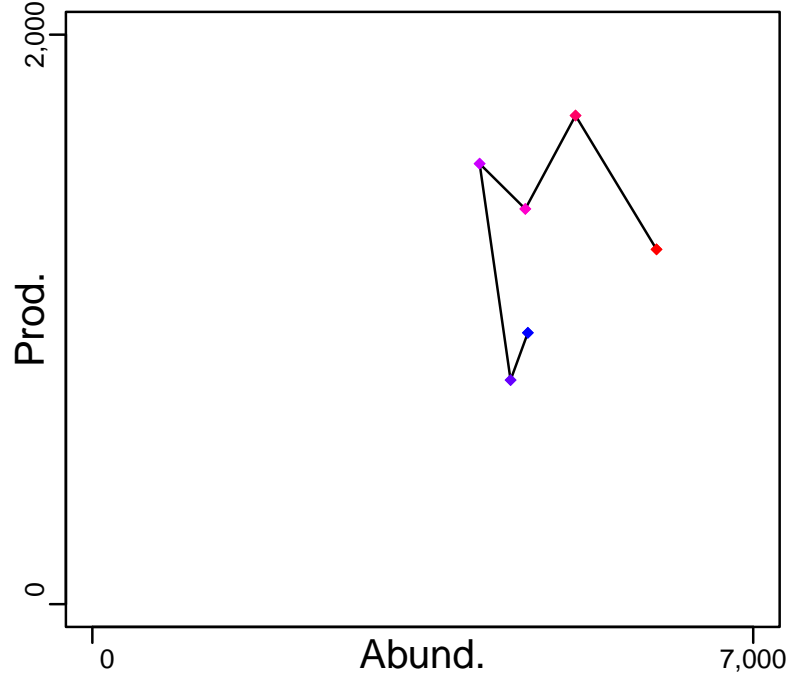
Kobe MGTpref (1971–2020–ICESIMP2021–2)



Spawner Recruit (1971–2021–ICESIMP2021–2)



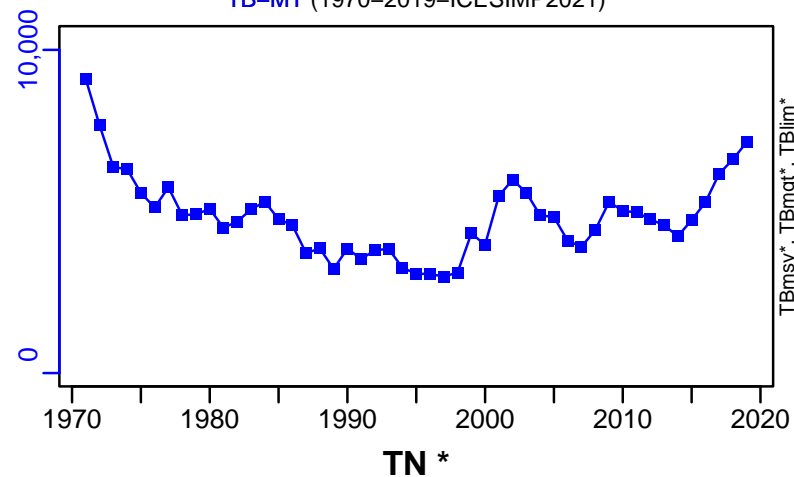
Production (1970–2019–ICESIMP2021)



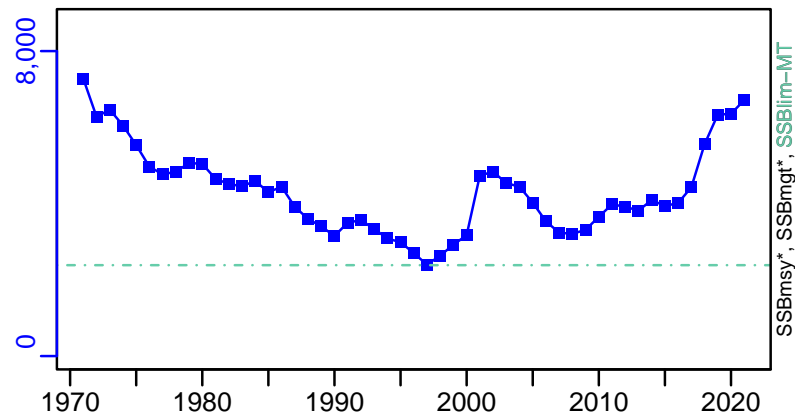
◆ Start Year ◆ End Year * No Data

Common sole Celtic Sea [SOLECS]

TB-MT (1970–2019–ICESIMP2021)



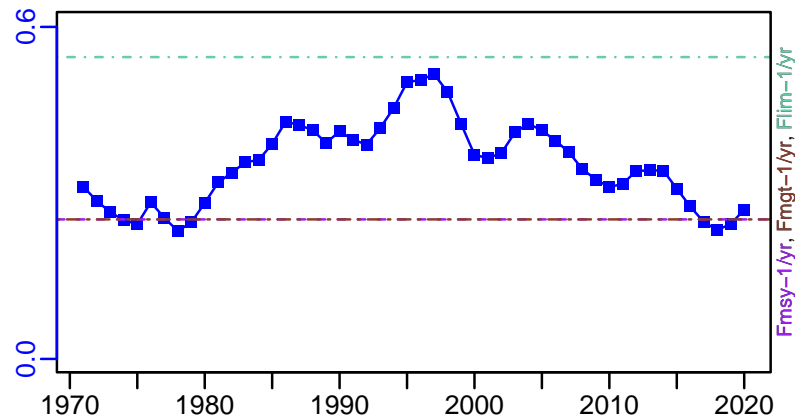
SSB-MT (1971–2021–ICESIMP2021–2)



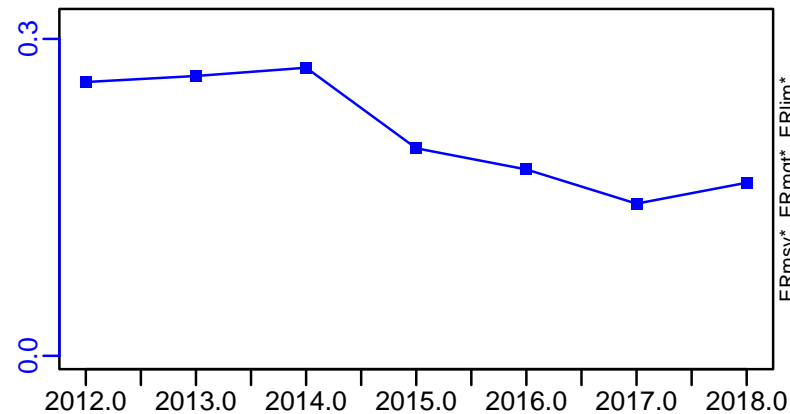
TN *



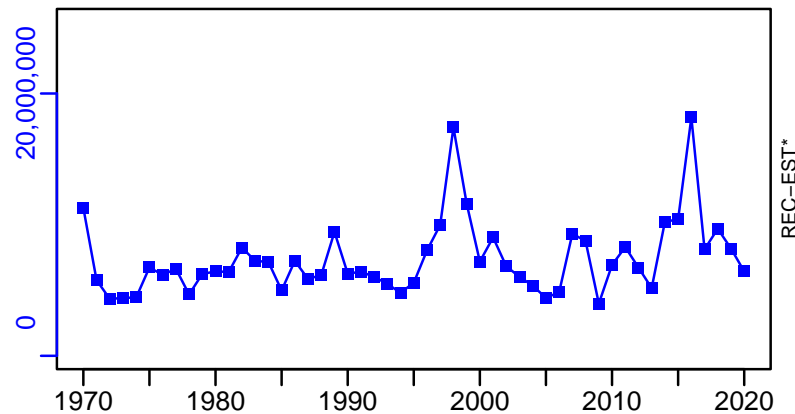
F-1/yr (1971–2021–ICESIMP2021–2)



ER-calc-ratio (1970–2019–ICESIMP2021)

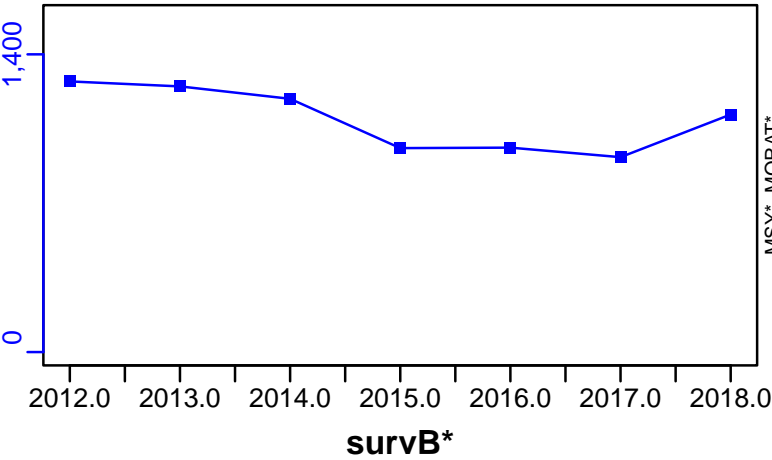


R-E00 (1971–2021–ICESIMP2021–2)



Common sole Celtic Sea [SOLECS]

TC-MT, TL*, RecC* (1970-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sole Central West Africa Angola [SOLECWAAGO]

Metadata	
Scientific Name	Cynoglossus spp
Current Assess ID	FAO-DR-SOLECWAAGO-1994-2010-ASHBROOK
Area	Central West Africa Angola
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2010

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	767		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

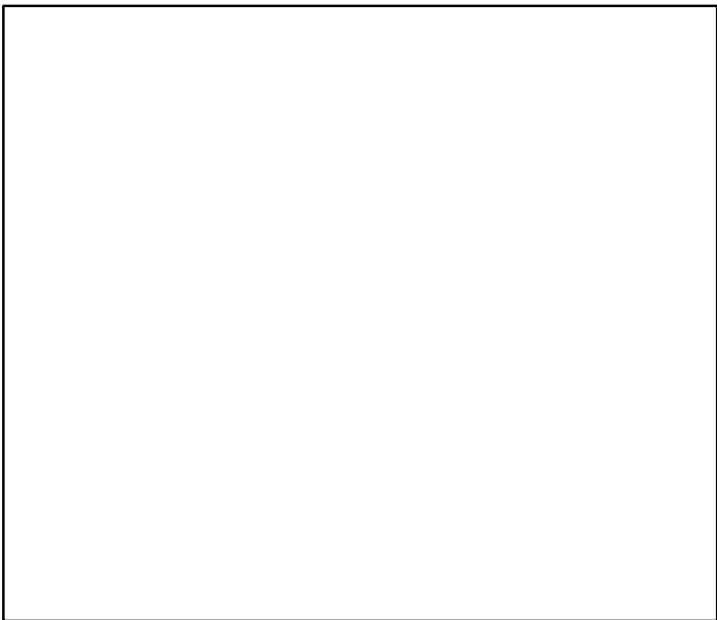
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

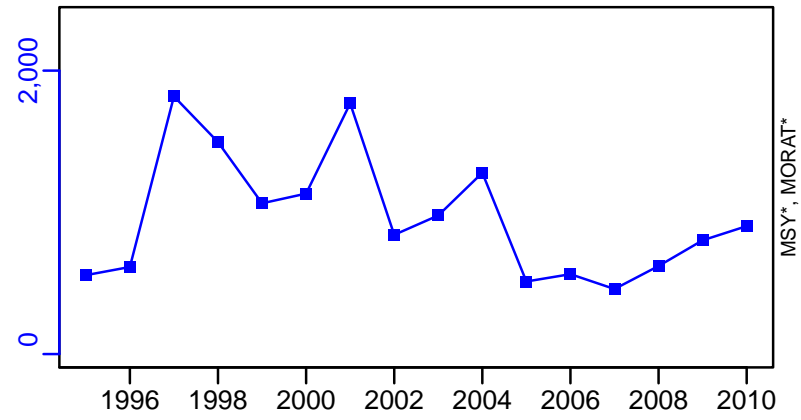


Recruits*



Sole Central West Africa Angola [SOLECWAAGO]

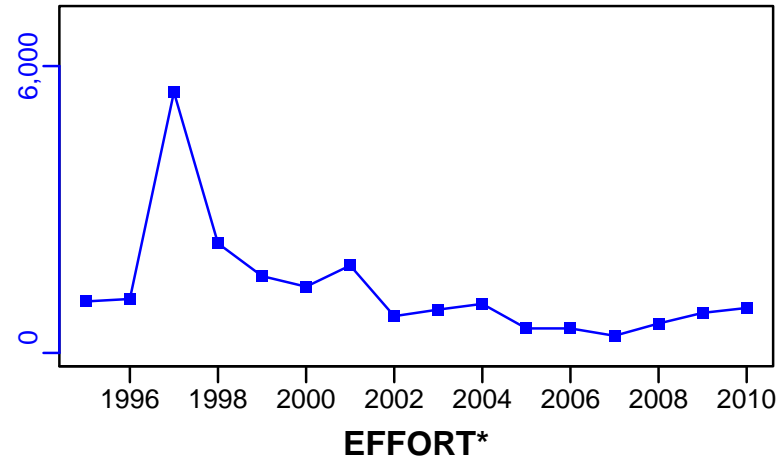
TC-MT, TL*, RecC* (1994-2010-ASHBROOK)



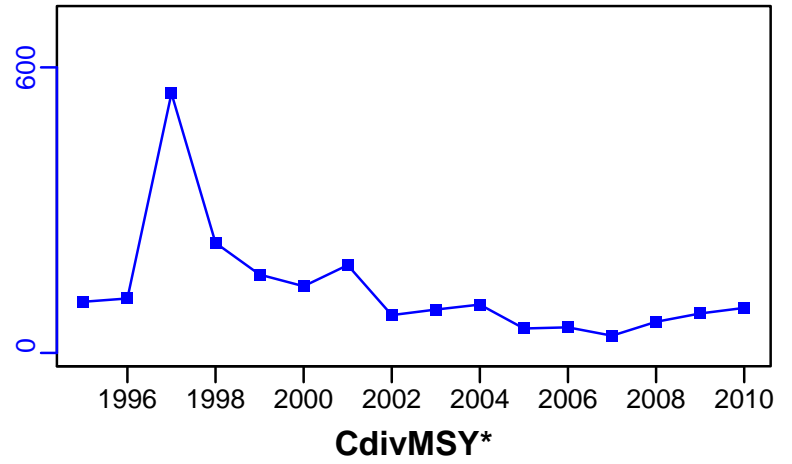
TAC*, Cpair*, Cadv*



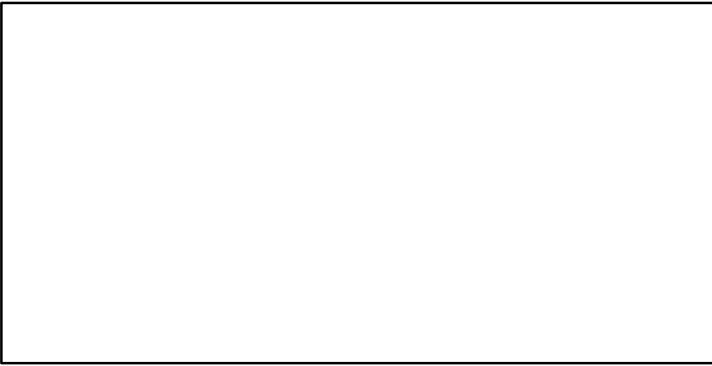
survB_index-1-index (1994-2010-ASHBROOK)



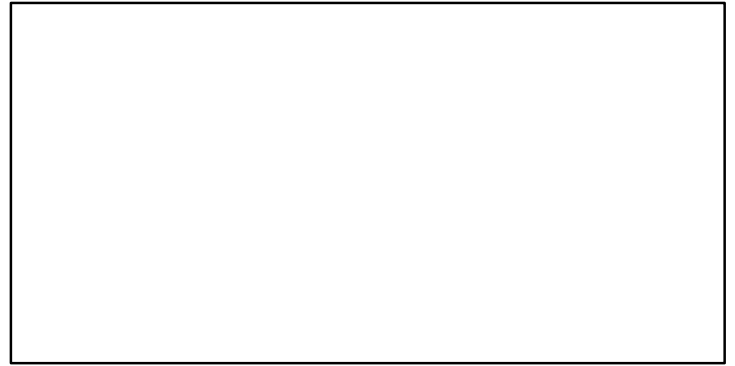
CPUE-index (1994-2010-ASHBROOK)



EFFORT*



CdivMSY*



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

Sole Central West Africa Gabon-Congo DR [SOLECWAGAB-COD]

Metadata	
Scientific Name	Cynoglossus spp
Current Assess ID	FAO-DR-SOLECWAGAB-COD-1991-2007-CHING
Area	Central West Africa Gabon-Congo DR
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2007	310	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2007	1690		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

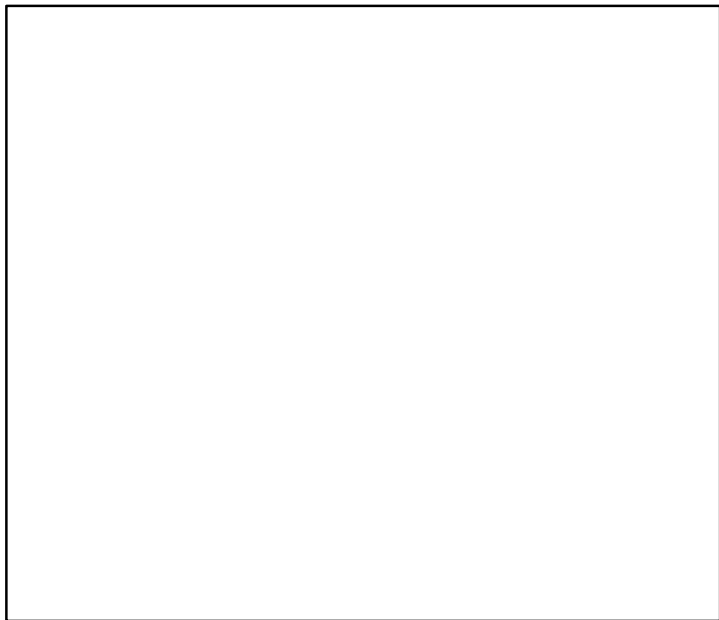
Kobe MSY*



Kobe MGT*



Spawner Recruit*



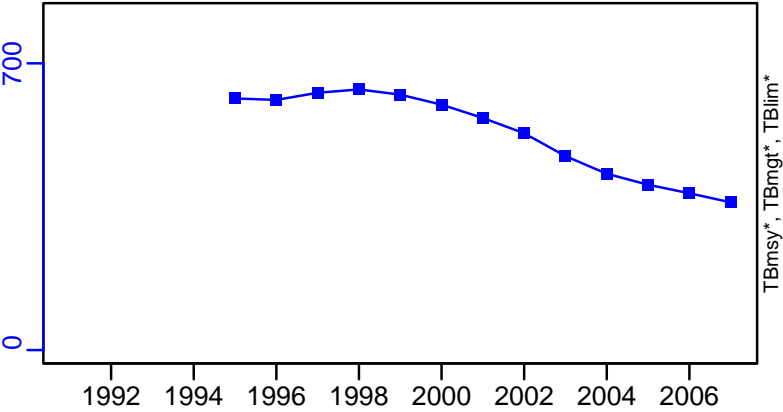
Production*



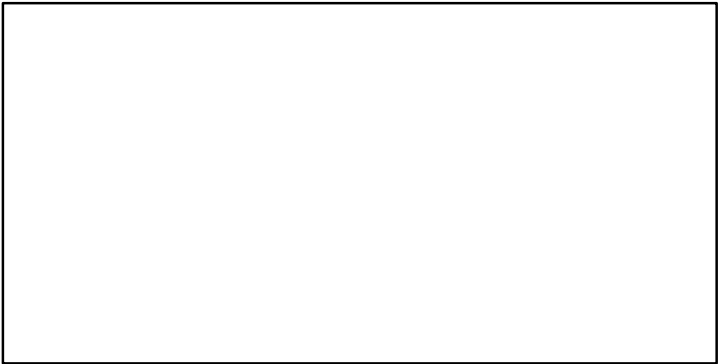
◆ Start Year ◆ End Year * No Data

Sole Central West Africa Gabon–Congo DR [SOLECWAGAB–COD]

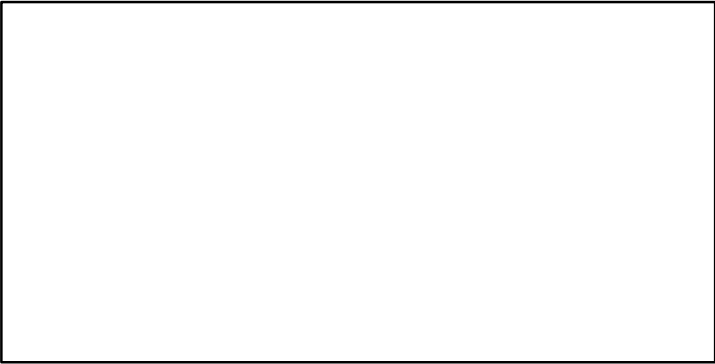
TB-index (1991–2007–CHING)



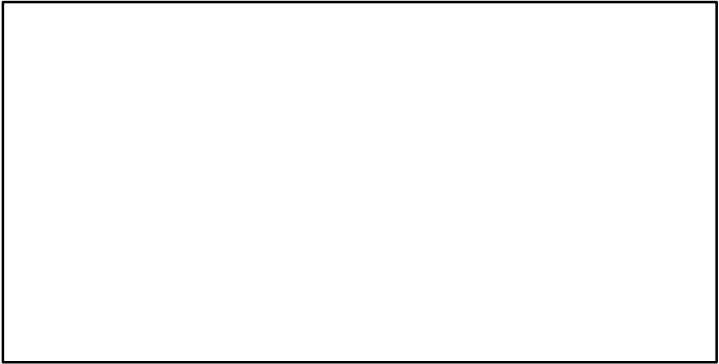
SSB*



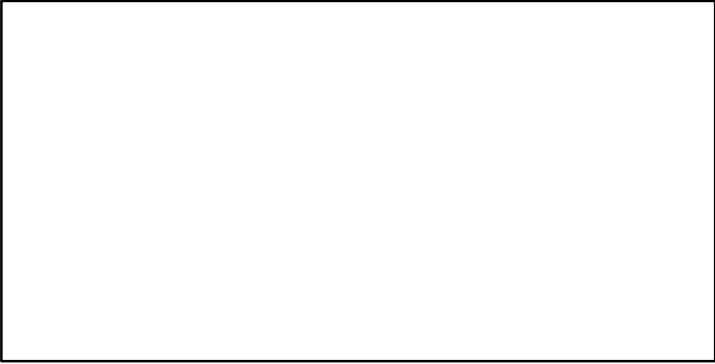
TN *



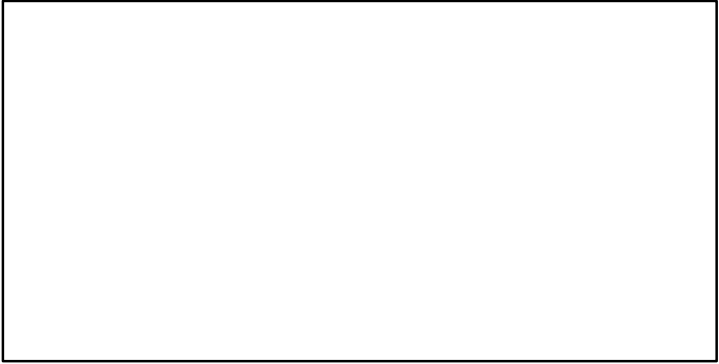
F*



ER*



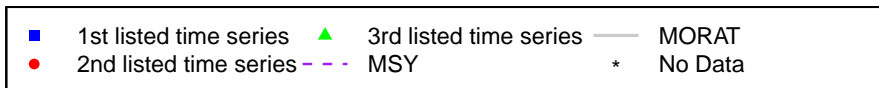
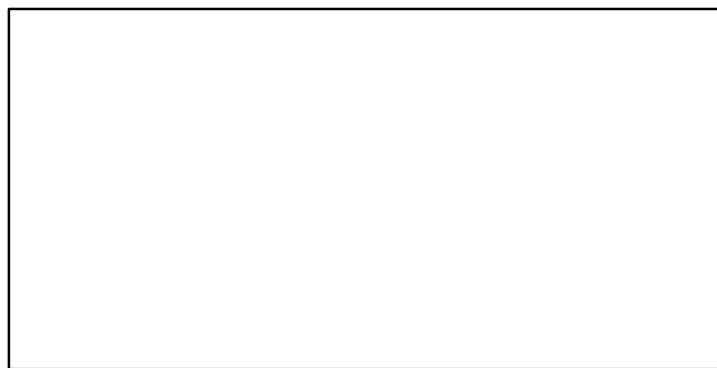
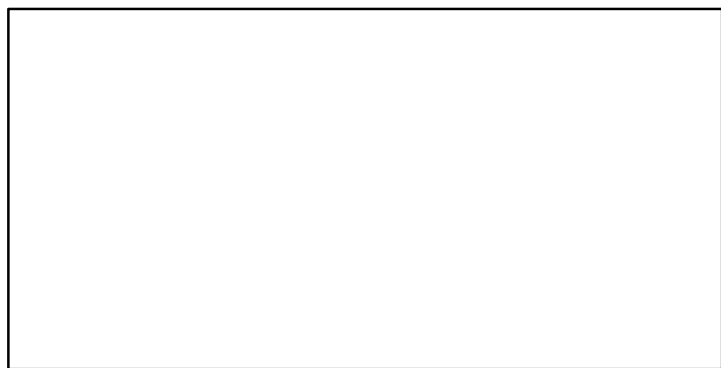
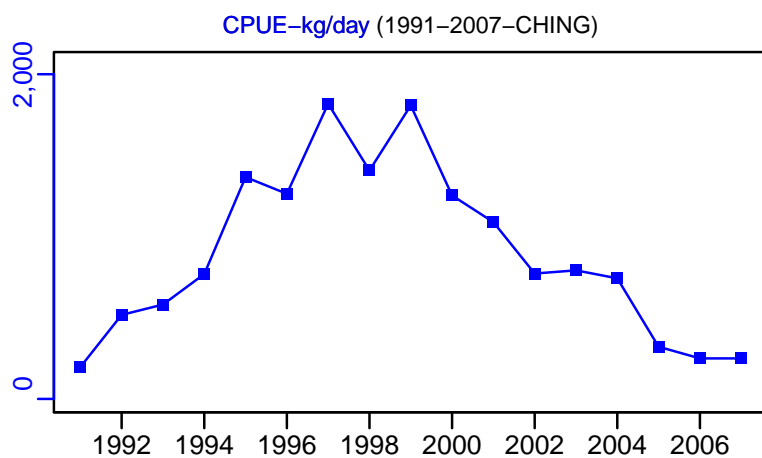
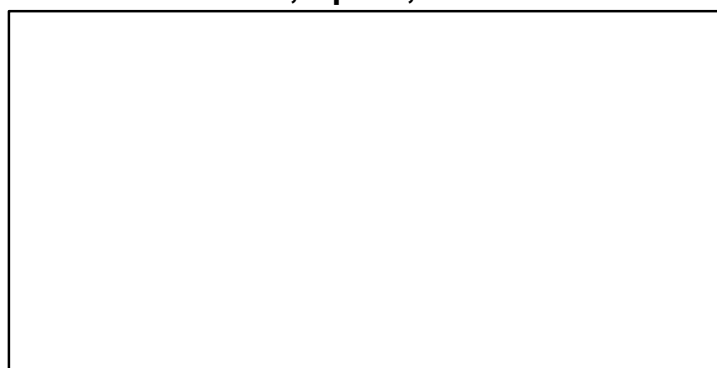
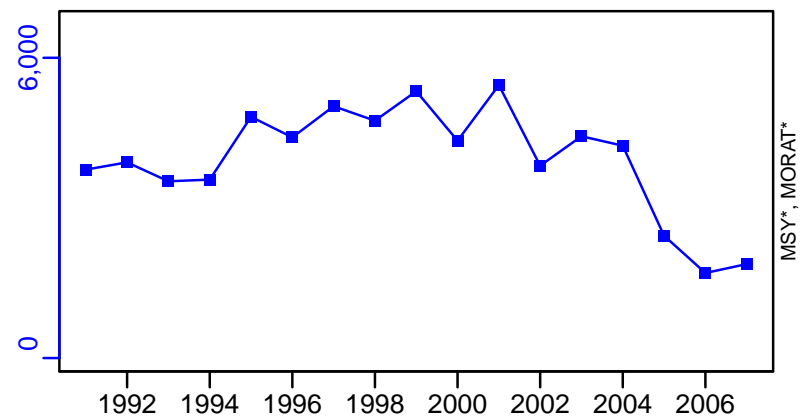
Recruits*



Sole Central West Africa Gabon–Congo DR [SOLECWAGAB–COD]

TC–MT, TL*, RecC* (1991–2007–CHING)

TAC*, Cpair*, Cadv*



Sole Central West Africa Guinea Bissau-Guinea [SOLECWAGNB-GIN]

Metadata	
Scientific Name	Cynoglossus spp
Current Assess ID	FAO-DR-SOLECWAGNB-GIN-1994-2009-ASHBROOK
Area	Central West Africa Guinea Bissau-Guinea
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2009

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	5349		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

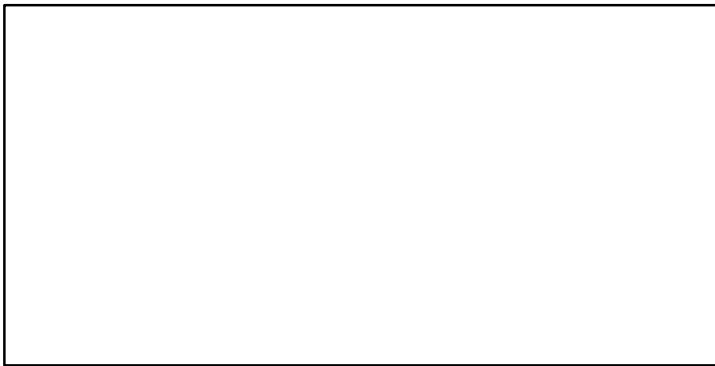


Production*

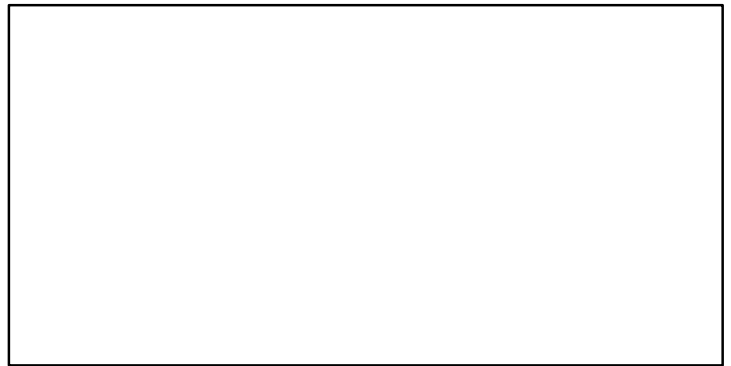


◆ Start Year ◆ End Year * No Data

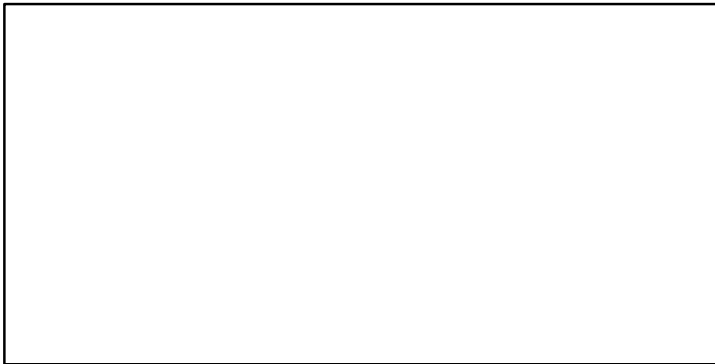
TB*



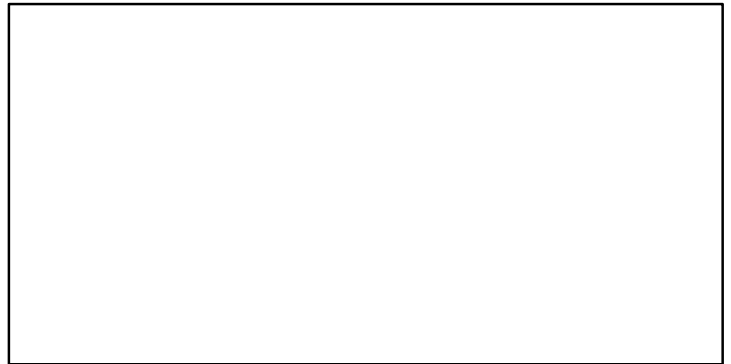
SSB*



TN *



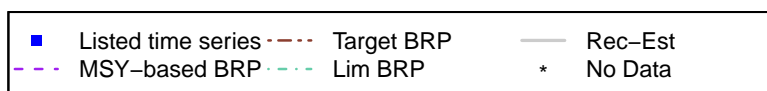
F*



ER*

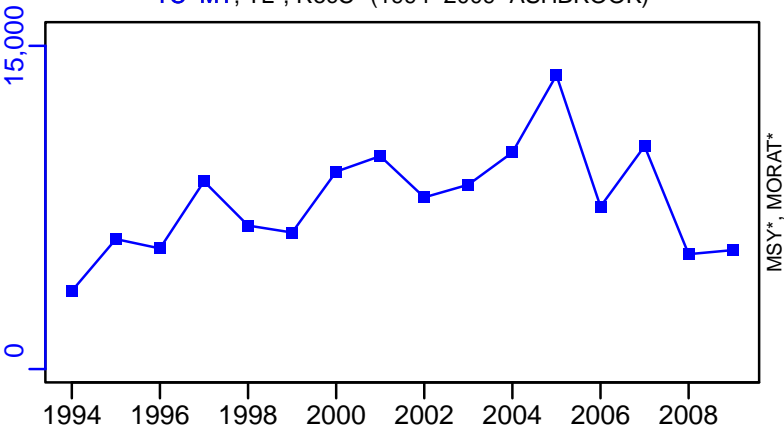


Recruits*



Sole Central West Africa Guinea Bissau–Guinea [SOLECWAGNB–GIN]

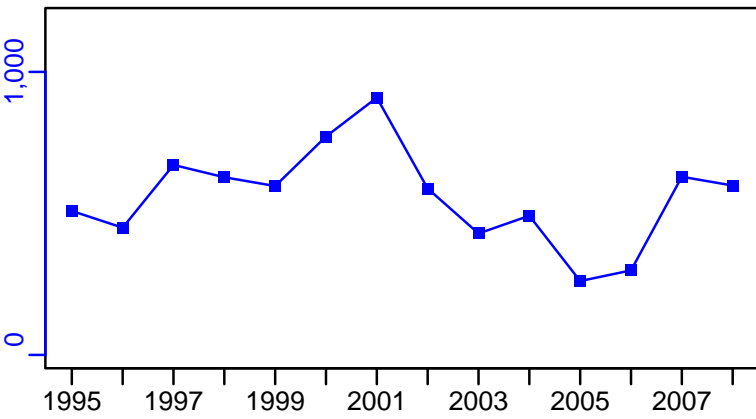
TC–MT, TL*, RecC* (1994–2009–ASHBROOK)



TAC*, Cpair*, Cadv*



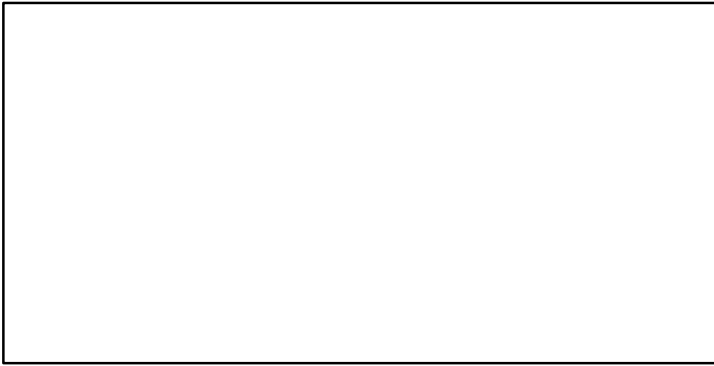
survB_index–index (1994–2009–ASHBROOK)



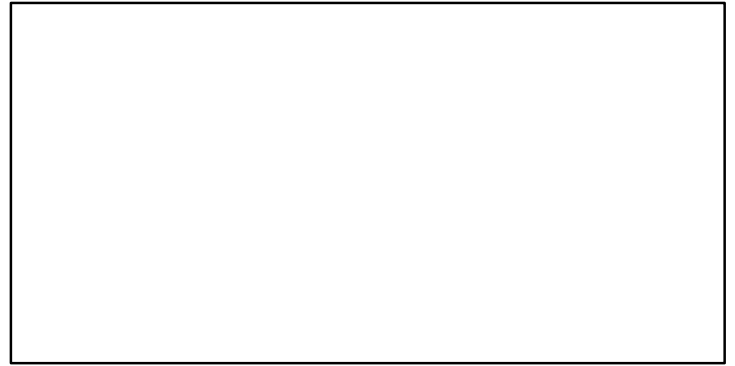
CPUE*



EFFORT*



CdivMSY*



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

Common sole ICES 22-24-3a [SOLEIIa-2224]

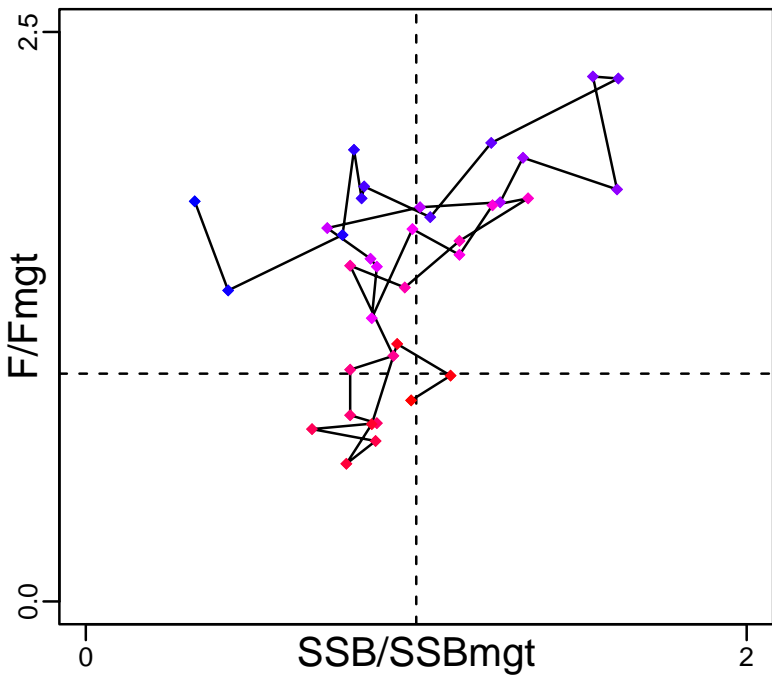
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBFAS-SOLEIIa-2224-1984-2021-ICESIMP2021-2
Area	ICES 22-24-3a
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.23
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	2600
Fmgt	Fmgt-1/yr	2020	0.23
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	1850
Flim	Flim-1/yr	2020	0.315
ERlim	-	-	-

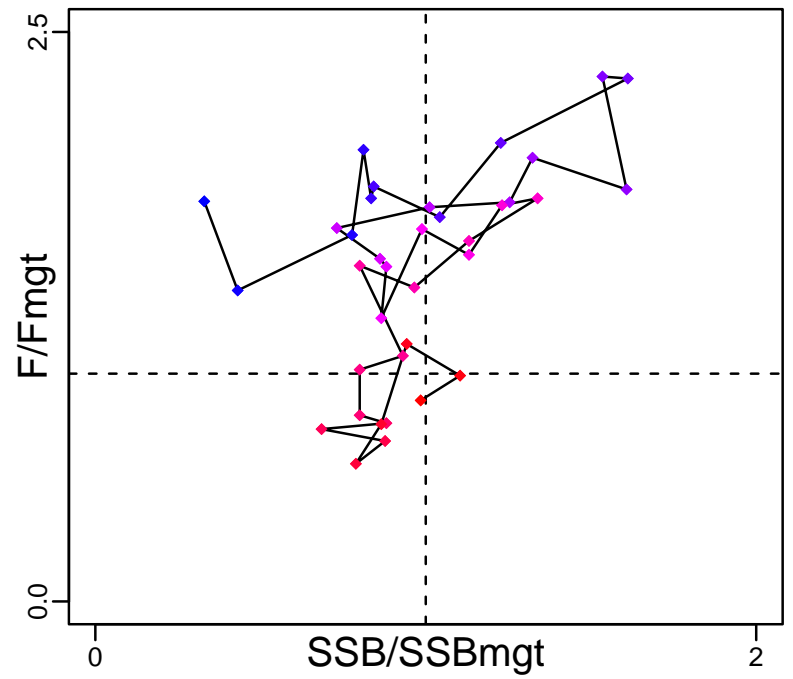
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3460	Both	-
SSB	SSB-MT	2021	3370	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,850,000	-	1
F	F-1/yr	2020	0.203	-	-
ER	ER-calc-ratio	2018	0.15	-	-
TC	TC-MT	2011	538		
TL	TL-MT	2021	424		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.213		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.208		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	0.883		
ER/ERMgt	-	-	-		

Common sole ICES 22-24-3a [SOLElla-2224]

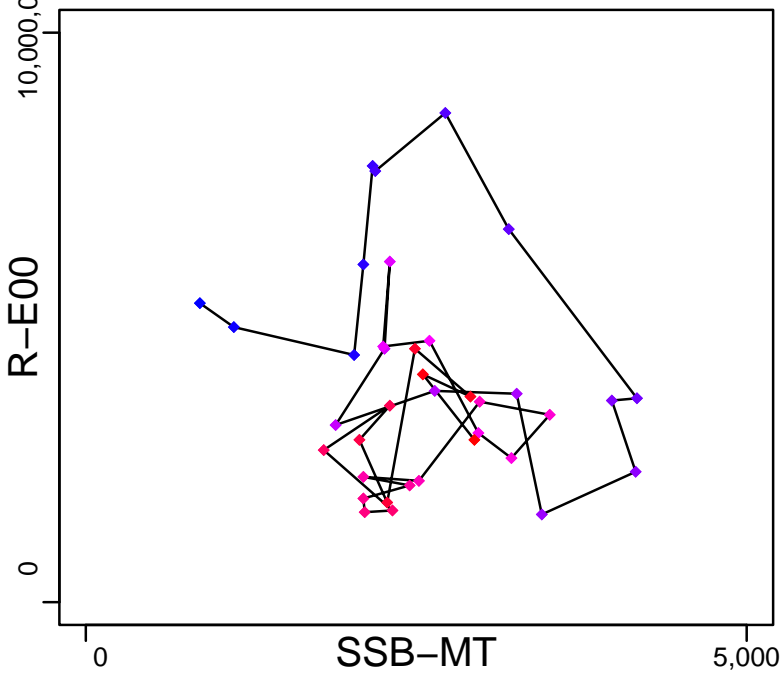
Kobe MSYpref (1984-2020-ICESIMP2021-2)



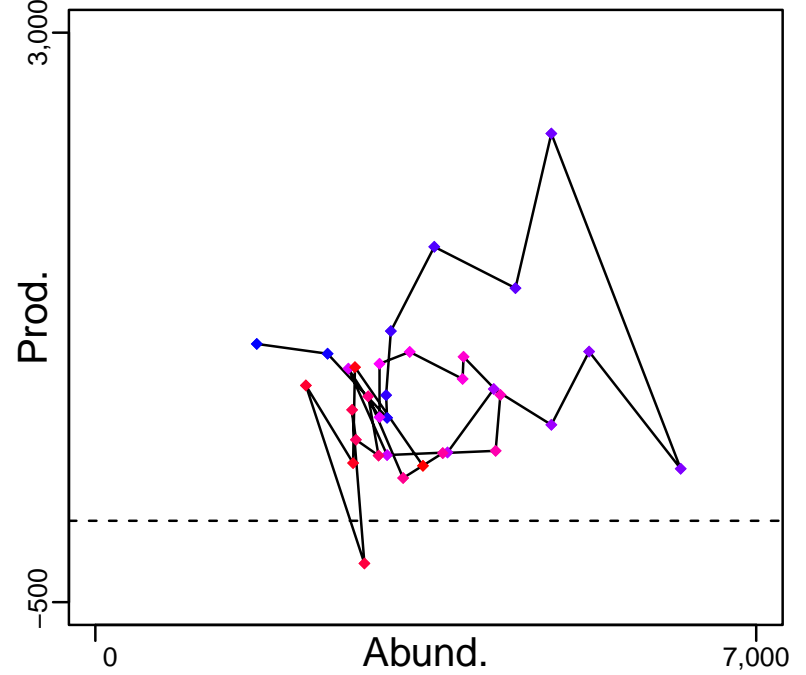
Kobe MGTpref (1984-2020-ICESIMP2021-2)



Spawner Recruit (1984-2021-ICESIMP2021-2)



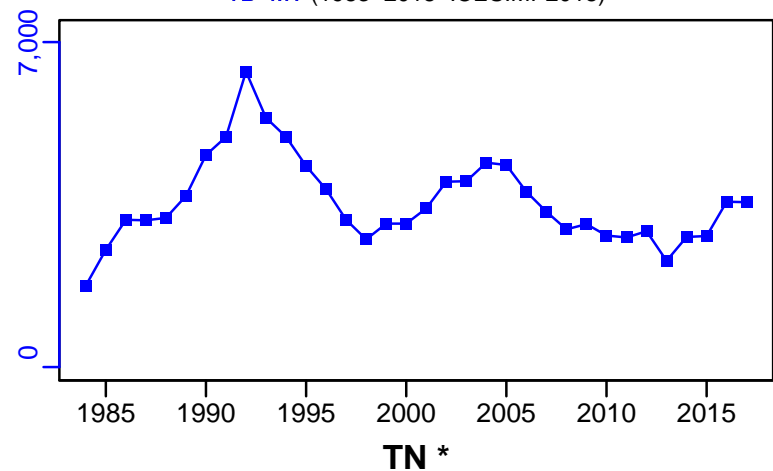
Production (1983-2018-ICESIMP2018)



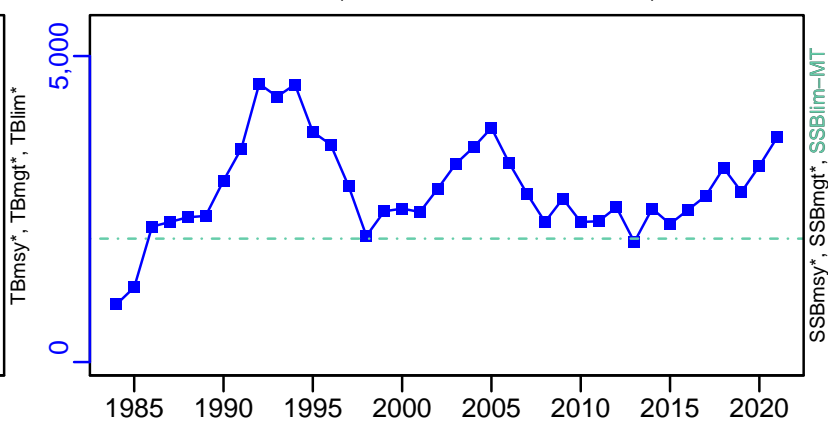
◆ Start Year ◆ End Year * No Data

Common sole ICES 22–24–3a [SOLEIIa-2224]

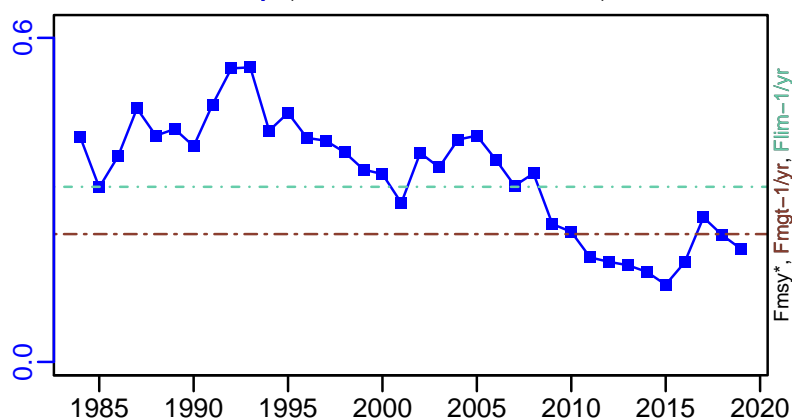
TB-MT (1983–2018–ICESIMP2018)



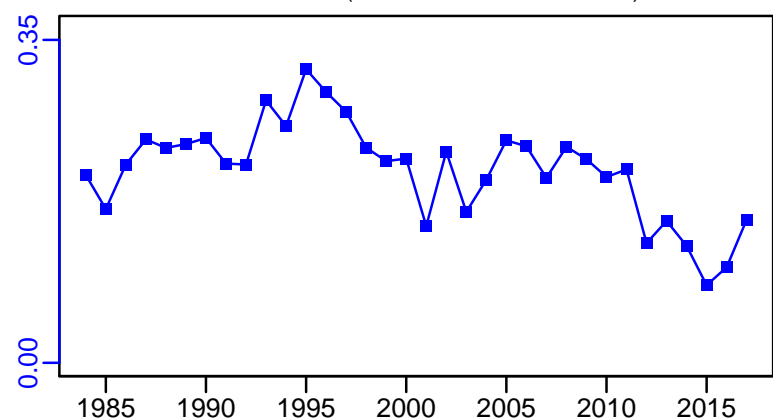
SSB-MT (1984–2021–ICESIMP2021–2)



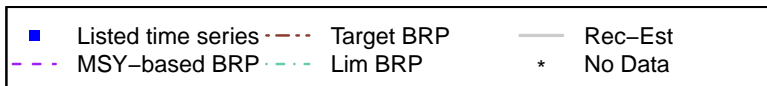
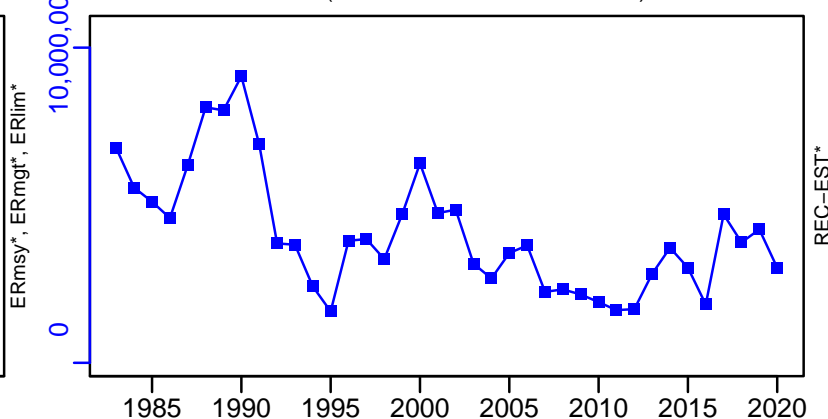
F-1/yr (1984–2020–ICESIMP2021–2)



ER-calc-ratio (1983–2018–ICESIMP2018)



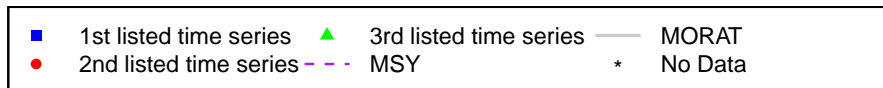
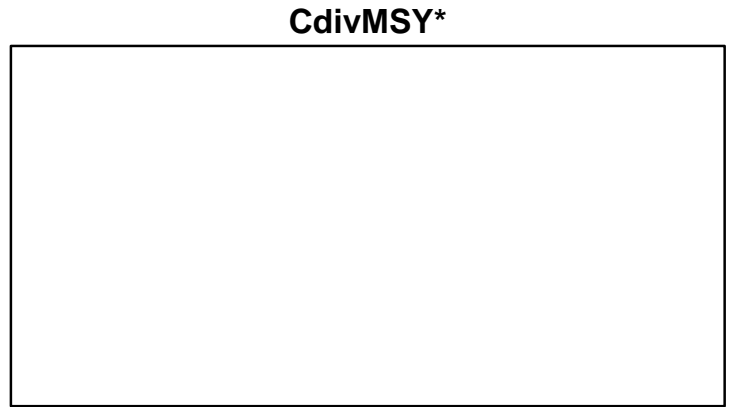
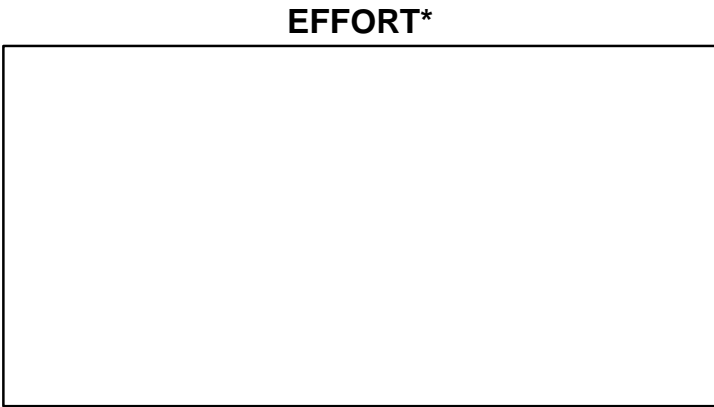
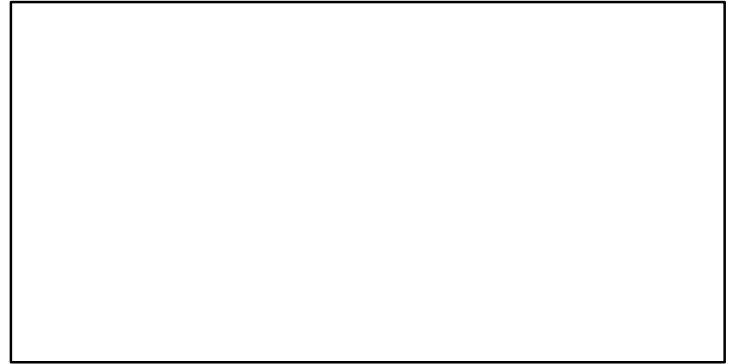
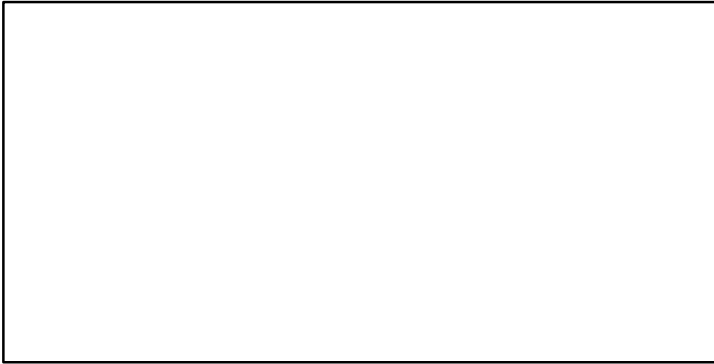
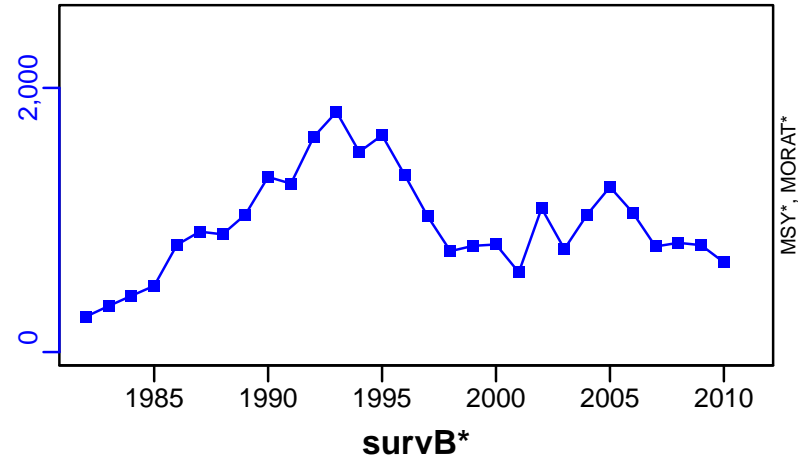
R-E00 (1984–2021–ICESIMP2021–2)



Common sole ICES 22–24–3a [SOLEIIIa–2224]

TC–MT, TL*, RecC* (1982–2011–NEUBAUER)

TAC*, Cpair*, Cadv*

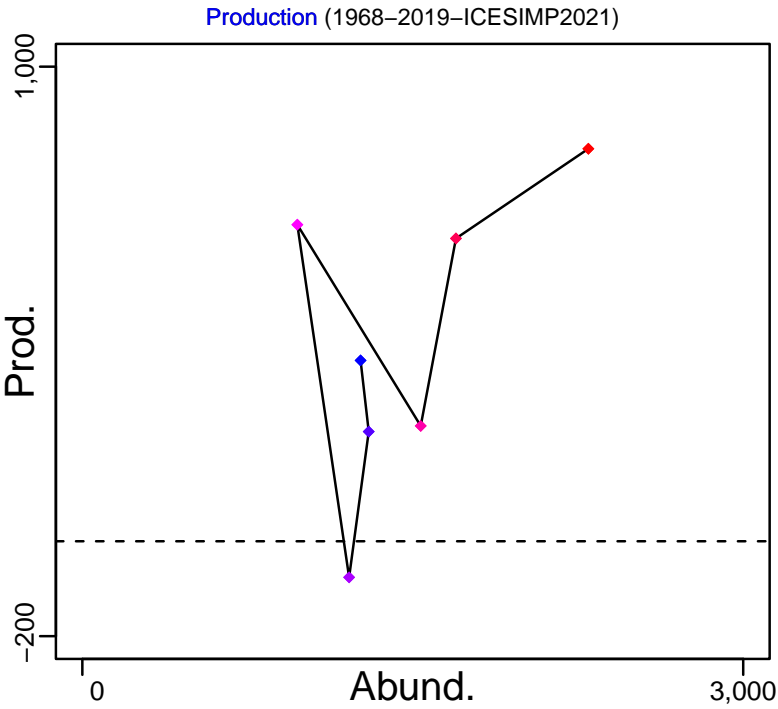
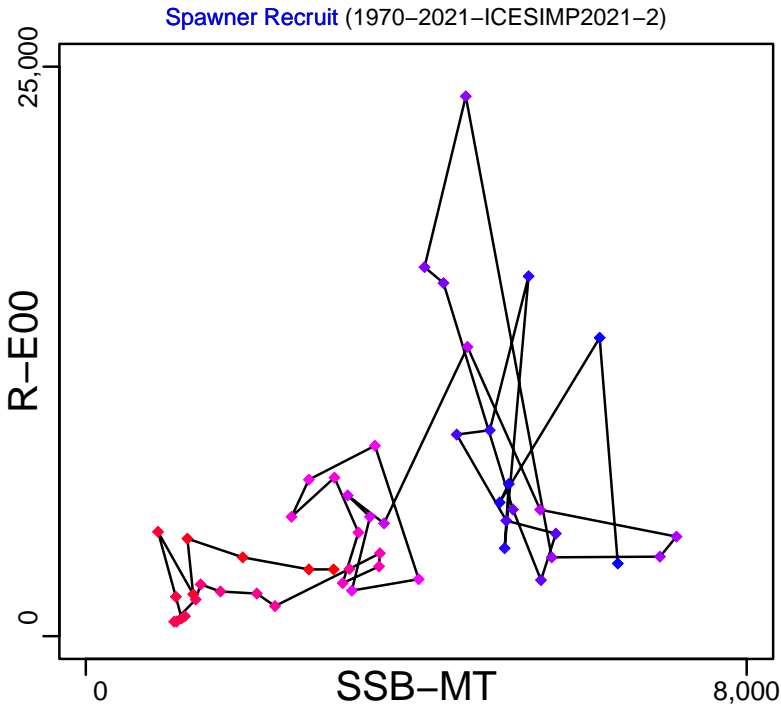
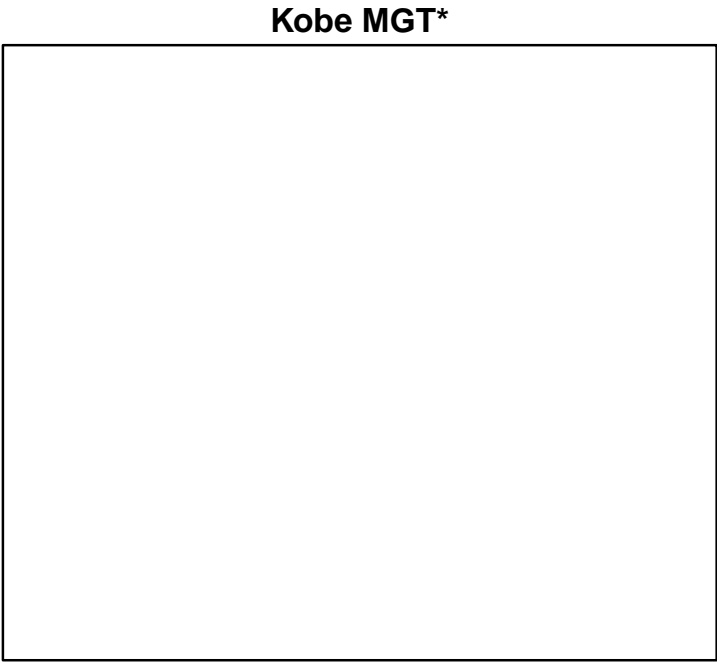
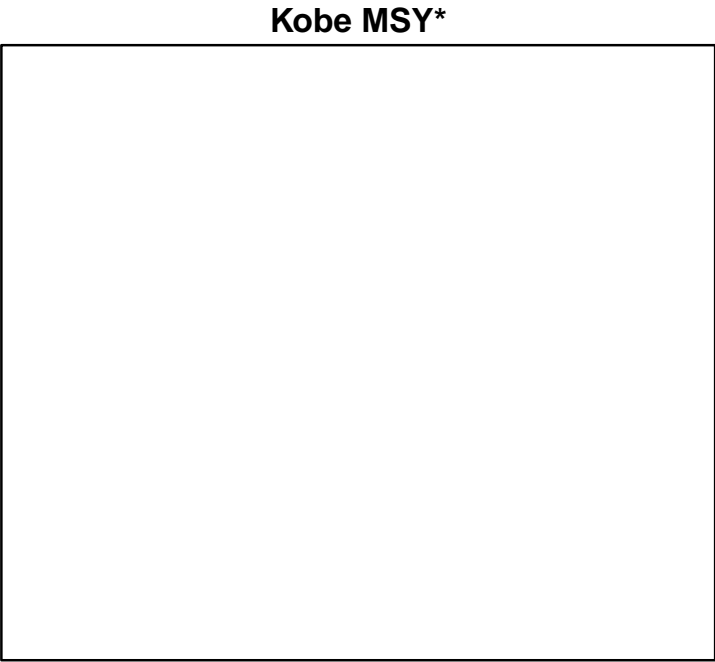


Common sole Irish Sea [SOLEIS]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEIS-1970-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.2
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2500
Flim	Flim-1/yr	2021	0.29
ERlim	-	-	-

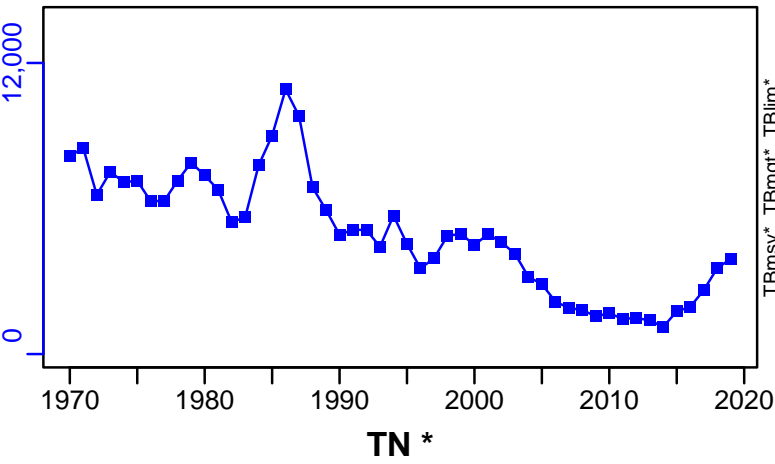
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	3427	-	-
SSB	SSB-MT	2021	4070	-	-
TN	-	-	-	-	-
R	R-E00	2021	2930	-	2
F	F-1/yr	2021	0.13	-	-
ER	ER-calc-ratio	2019	0.012	-	-
TC	TC-MT	2019	38		
TL	TL-MT	2021	404		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.65		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.65		
ER/ERMgt	-	-	-		



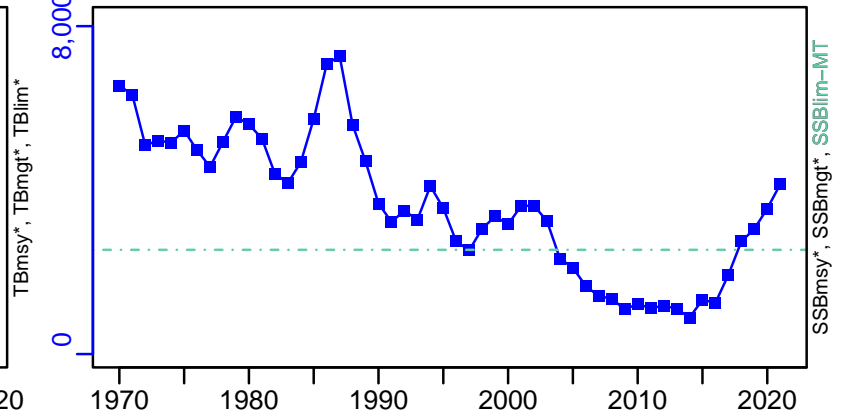
◆ Start Year ◆ End Year * No Data

Common sole Irish Sea [SOLEIS]

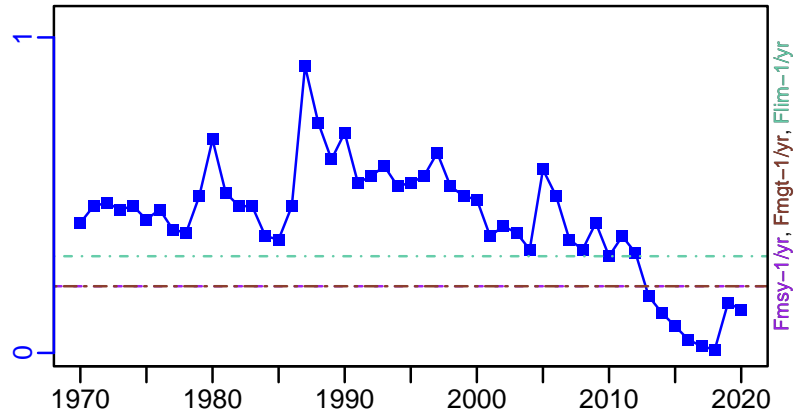
TB-MT (1968–2019–ICESIMP2021)



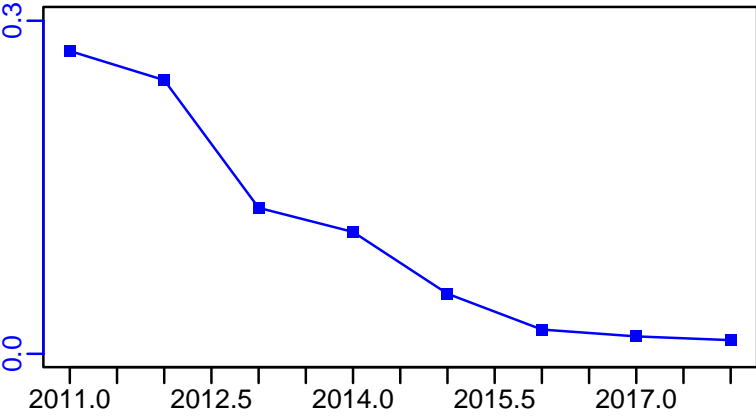
SSB-MT (1970–2021–ICESIMP2021–2)



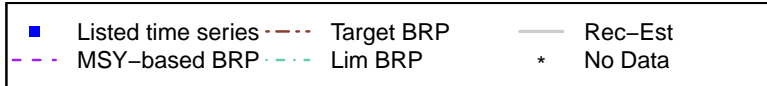
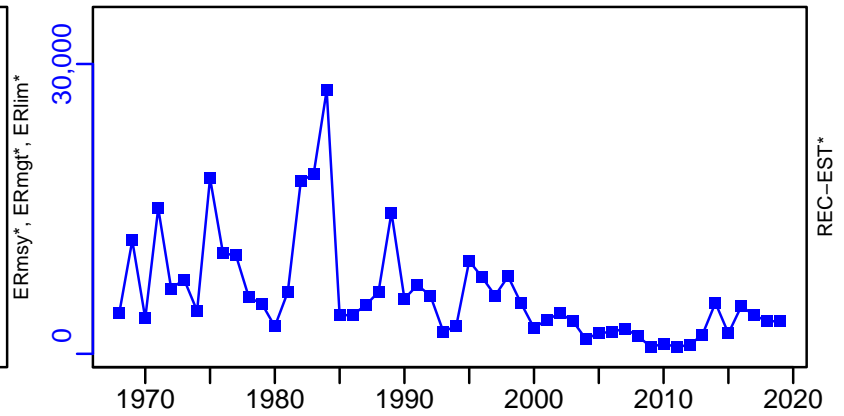
F-1/yr (1970–2021–ICESIMP2021–2)



ER-calc-ratio (1968–2019–ICESIMP2021)

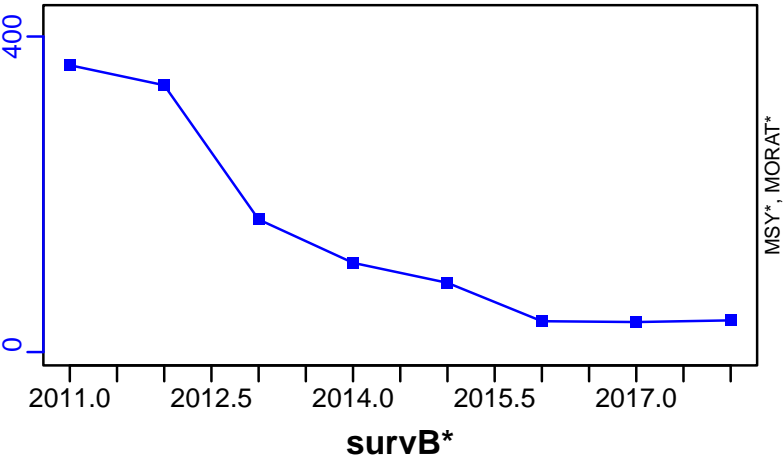


R-E00 (1970–2021–ICESIMP2021–2)



Common sole Irish Sea [SOLEIS]

TC-MT, TL*, RecC* (1968-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



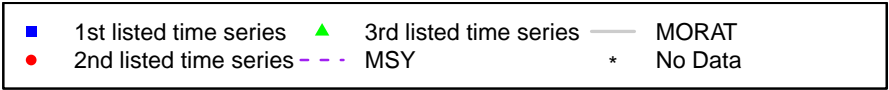
CPUE*



EFFORT*



CdivMSY*



Common sole North Sea [SOLENS]

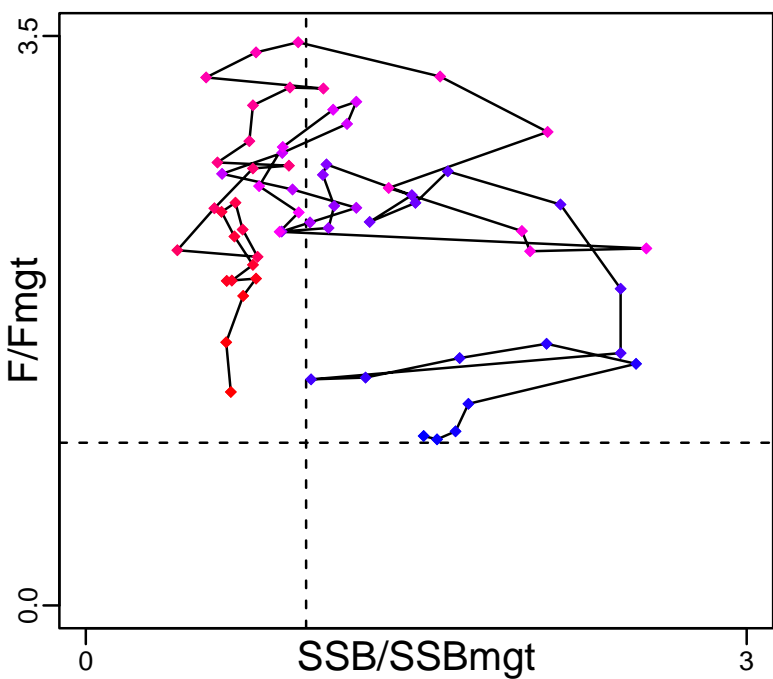
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLENS-1957-2021-ICESIMP2021-2
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.207
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	42,838
Fmgt	Fmgt-1/yr	2021	0.207
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	30,800
Flim	Flim-1/yr	2021	0.42
ERlim	-	-	-

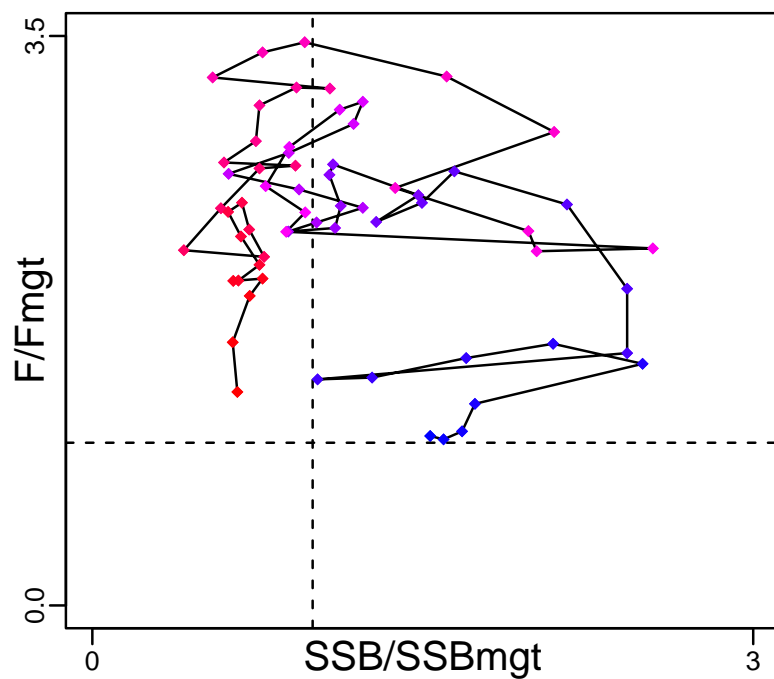
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	64,800	Both	-
SSB	SSB-MT	2021	64,800	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.14×10^8	-	1
F	F-1/yr	2021	0.233	-	-
ER	ER-calc-ratio	2018	0.191	-	-
TC	TC-MT	2021	10,500		
TL	TL-MT	2021	8840		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.124		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.808		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.124		
ER/ERmgt	-	-	-		

Common sole North Sea [SOLENS]

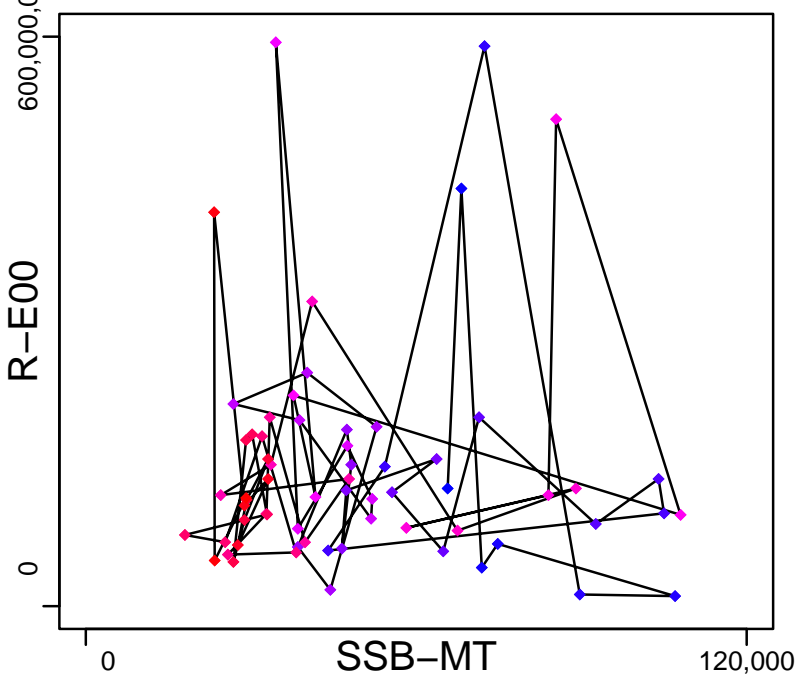
Kobe MSYpref (1957–2020–ICESIMP2021–2)



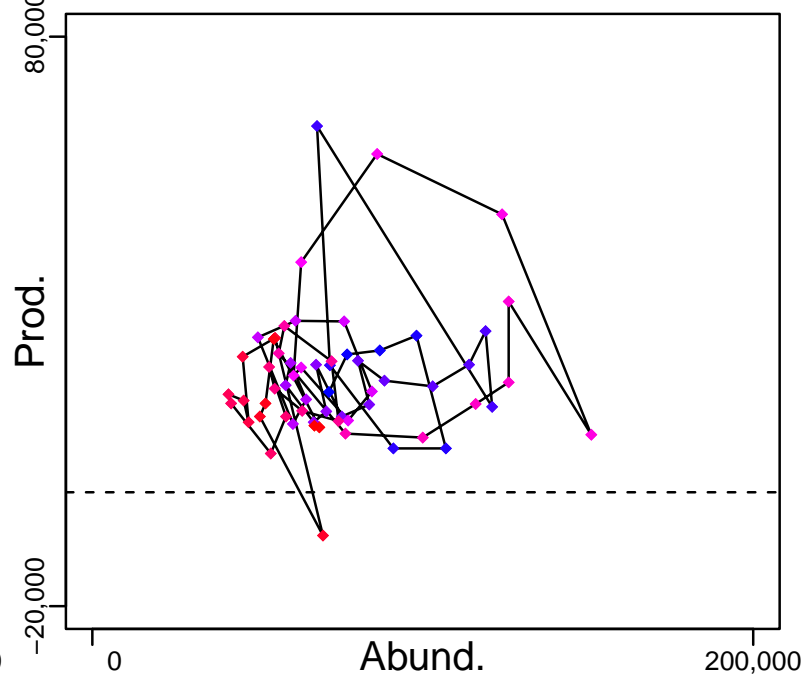
Kobe MGTpref (1957–2020–ICESIMP2021–2)



Spawner Recruit (1957–2021–ICESIMP2021–2)



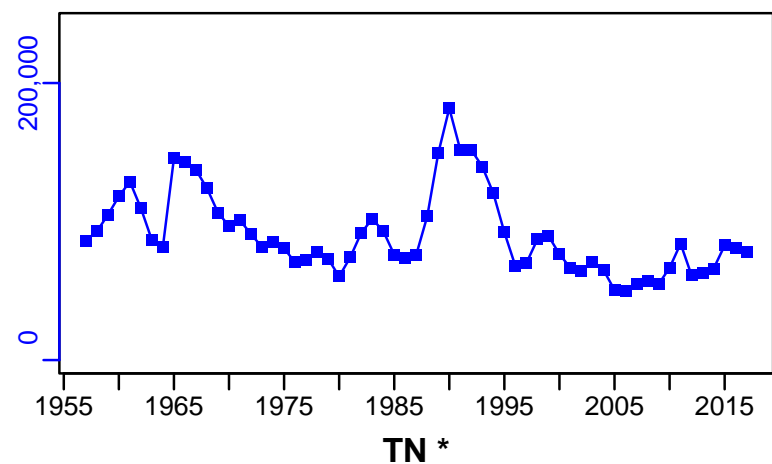
Production (1956–2018–ICESIMP2018)



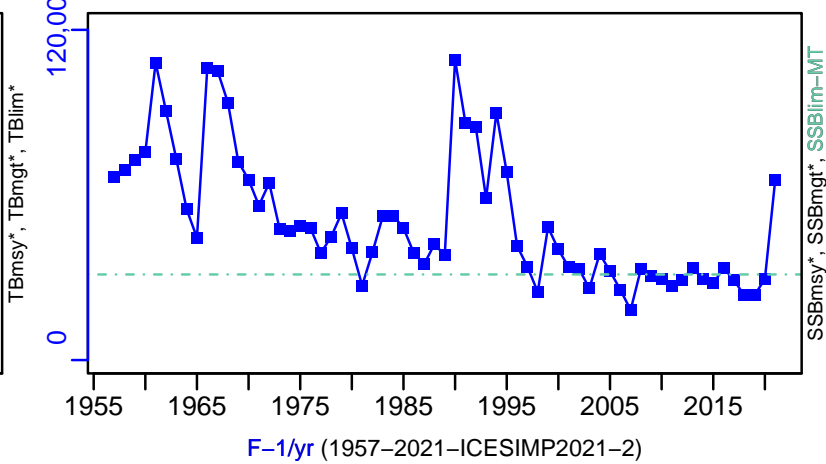
◆ Start Year ◆ End Year * No Data

Common sole North Sea [SOLENS]

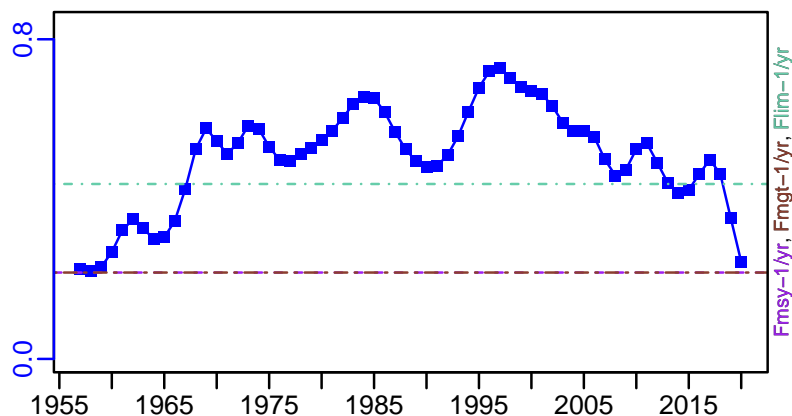
TB-MT (1956–2018–ICESIMP2018)



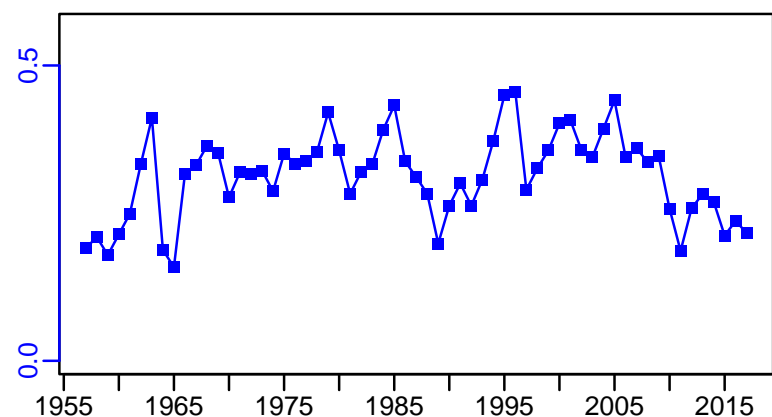
SSB-MT (1957–2021–ICESIMP2021–2)



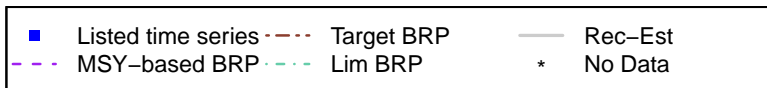
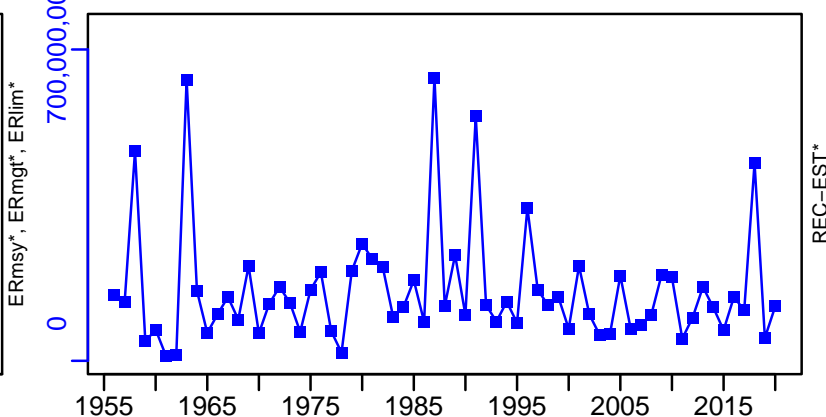
F-1/yr (1957–2021–ICESIMP2021–2)



ER-calc-ratio (1956–2018–ICESIMP2018)

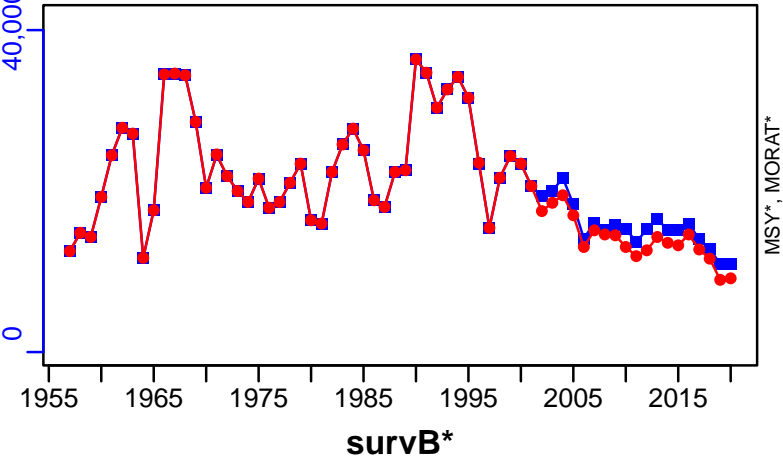


R-E00 (1957–2021–ICESIMP2021–2)



Common sole North Sea [SOLENS]

TC-MT, TL-MT, RecC* (1957-2021-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Common sole ICES 7bc [SOLEVIIbc]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIbc-1908-2019-ICESIMP2021-2
Area	ICES 7bc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2019, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	18		
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 *



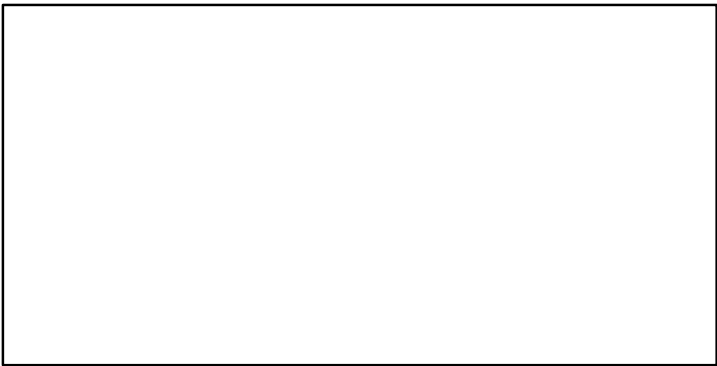
F*



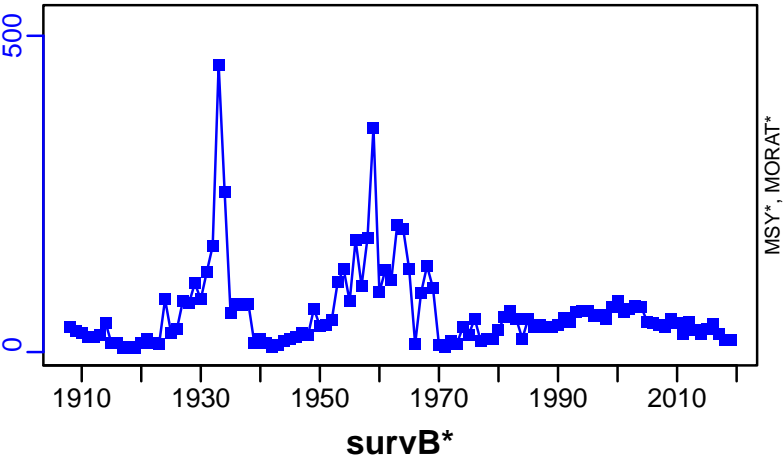
ER*



Recruits*



TL-MT, TC*, RecC* (1908-2019-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



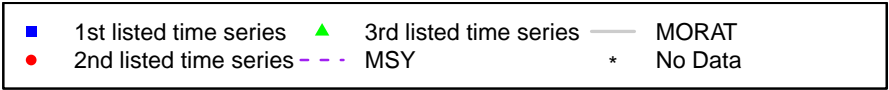
CPUE*



EFFORT*



CdivMSY*



Common sole Eastern English Channel [SOLEVIId]

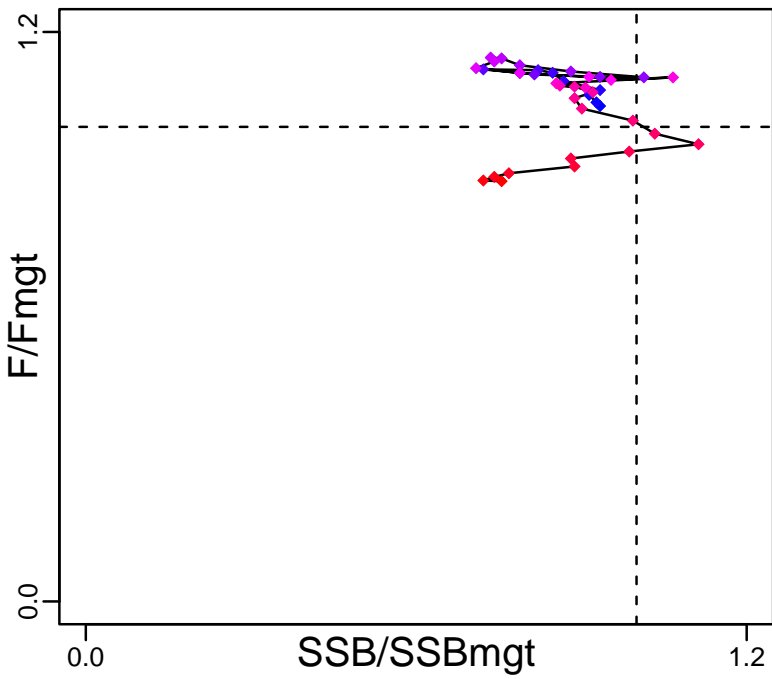
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLEVIId-1981-2023-ICESIMP2024
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2018, 2023, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.23
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	15,100
Fmgt	Fmgt-1/yr	2023	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	11,181
Flim	Flim-1/yr	2023	0.352
ERlim	-	-	-

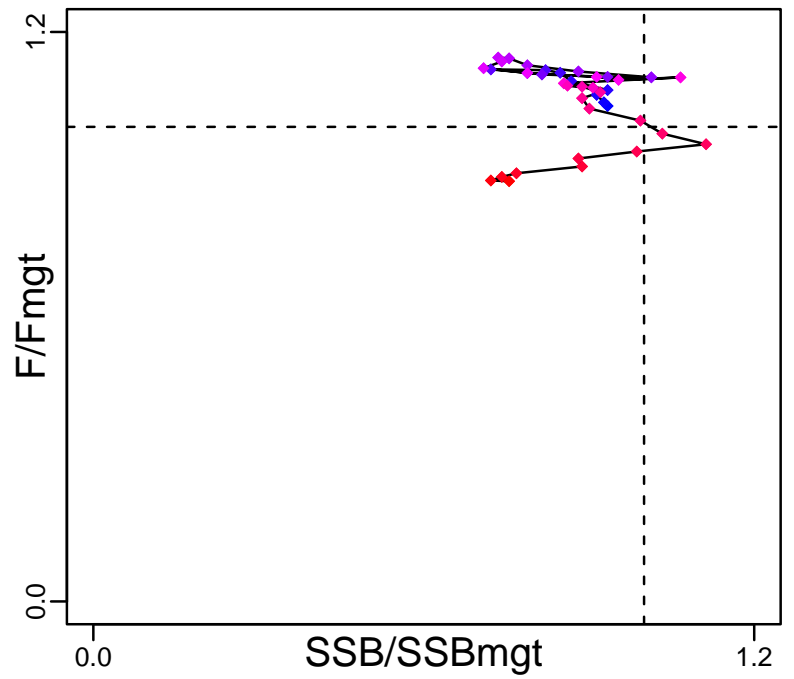
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	17,300	Both	-
SSB	SSB-MT	2023	11,670	-	-
TN	-	-	-	-	-
R	R-E00	2023	16,105	-	1
F	F-1/yr	2023	0.226	-	-
ER	ER-calc-ratio	2018	0.14	-	-
TC	TC-MT	2019	2200		
TL	TL-MT	2023	1694		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.986		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.96		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.986		
ER/ERmgt	-	-	-		

Common sole Eastern English Channel [SOLEVIId]

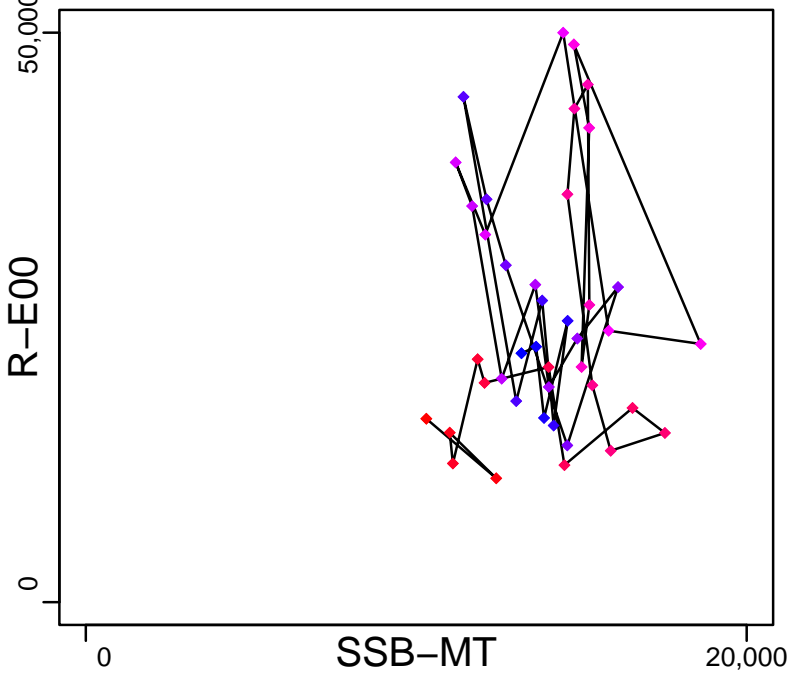
Kobe MSYpref (1982–2021–ICESIMP2021–2)



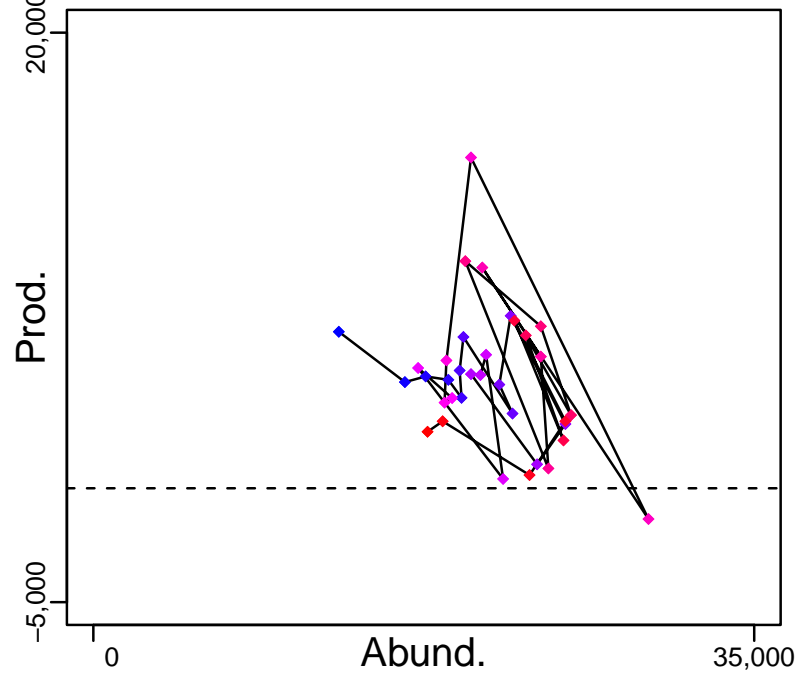
Kobe MGTpref (1982–2021–ICESIMP2021–2)



Spawner Recruit (1981–2023–ICESIMP2024)



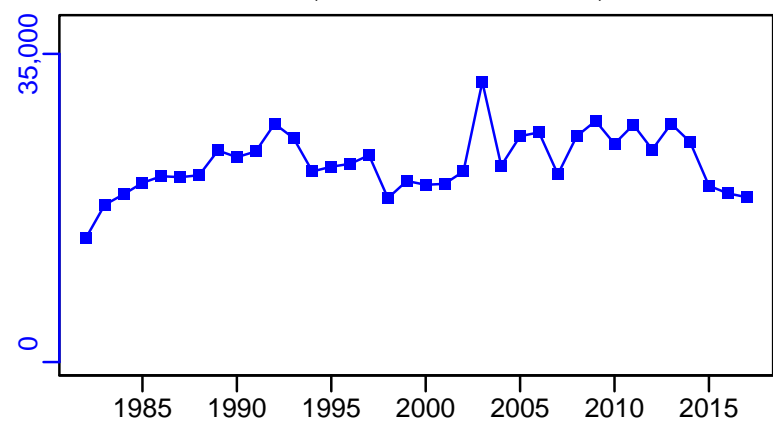
Production (1981–2018–ICESIMP2018)



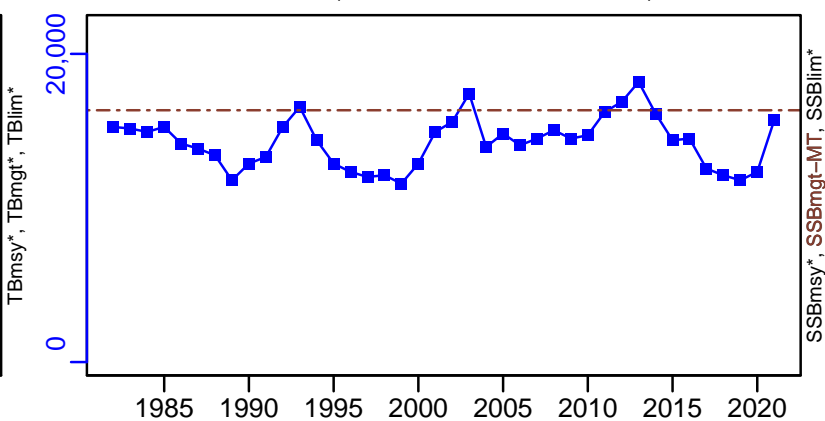
◆ Start Year ◆ End Year * No Data

Common sole Eastern English Channel [SOLEVIId]

TB-MT (1981–2018–ICESIMP2018)



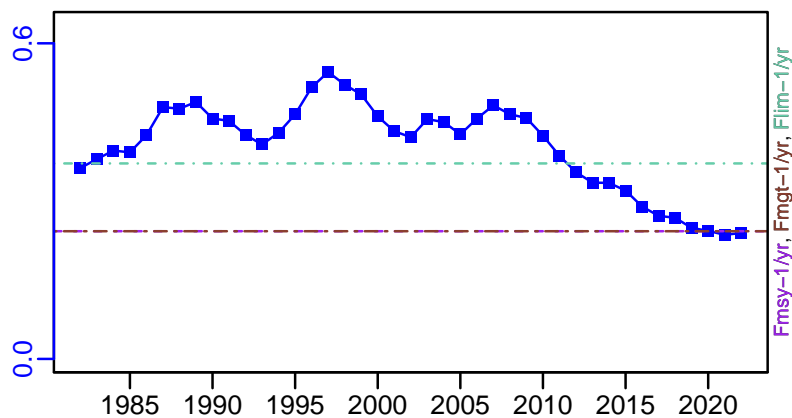
SSB-MT (1982–2021–ICESIMP2021–2)



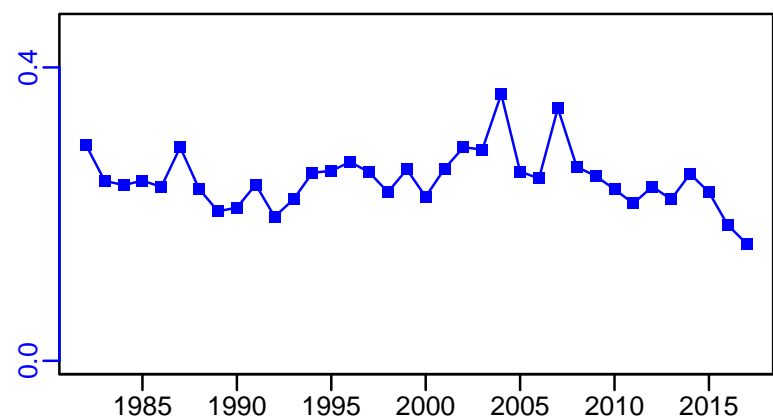
TN *



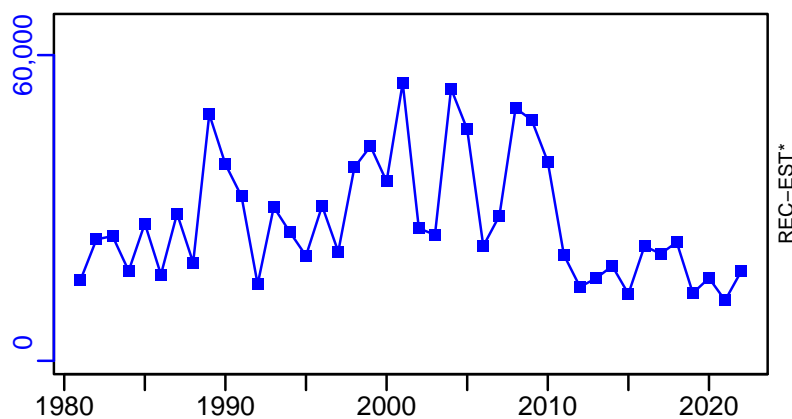
F-1/yr (1981–2023–ICESIMP2024)



ER-calc-ratio (1981–2018–ICESIMP2018)

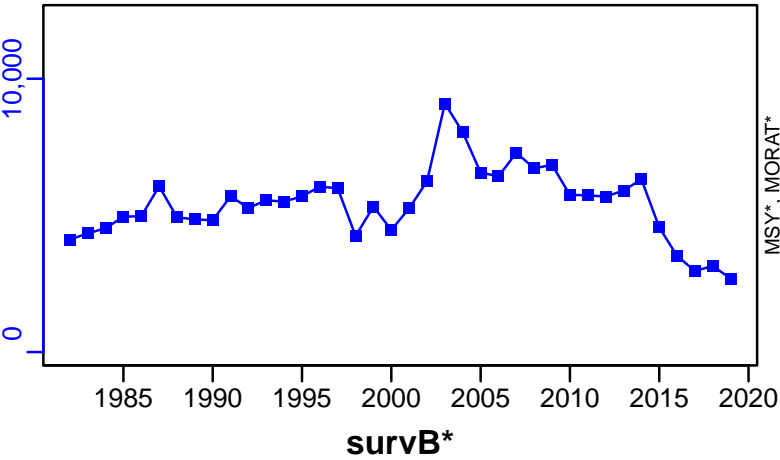


R-E00 (1981–2023–ICESIMP2024)



Common sole Eastern English Channel [SOLEVIId]

TC-MT, TL*, RecC* (1982-2019-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Common sole Western English Channel [SOLEVIIe]

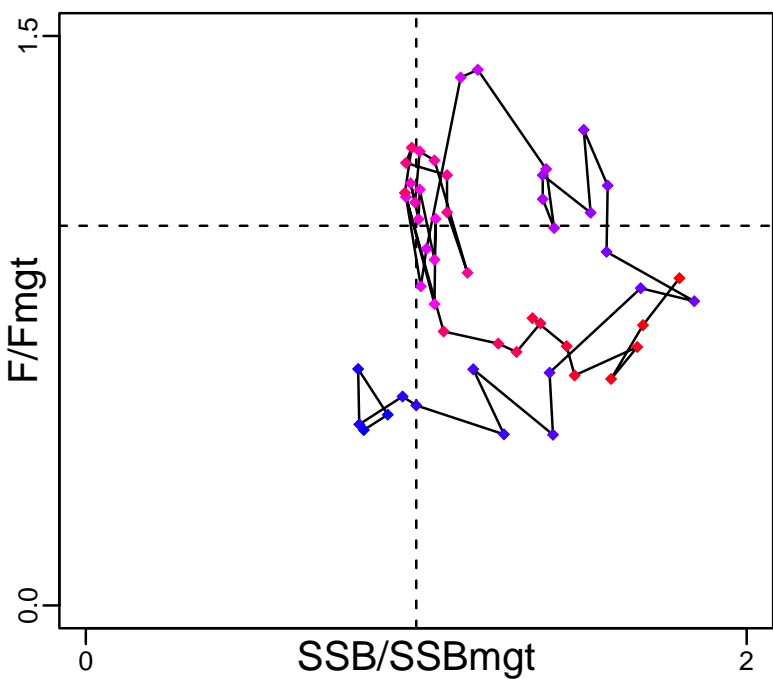
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIe-1969-2021-ICESIMP2021-2
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2013, 2014, 2020, 2021, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	2900
Fmgt	Fmgt-1/yr	2021	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2000
Flim	Flim-1/yr	2021	0.44
ERlim	-	-	-

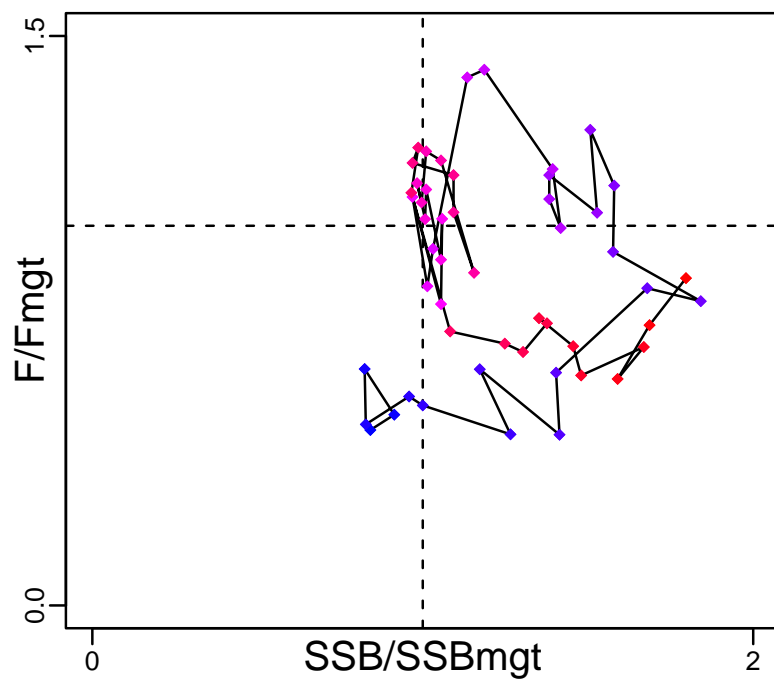
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5934	-	-
SSB	SSB-MT	2021	6080	-	-
TN	-	-	-	-	-
R	R-E00	2021	4,970,000	-	2
F	F-1/yr	2021	0.258	-	-
ER	ER-calc-ratio	2019	0.181	-	-
TC	TC-MT	2017	924		
TL	TL-MT	2021	1220		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.889		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	2.183		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.889		
ER/ERmgt	-	-	-		

Common sole Western English Channel [SOLEVile]

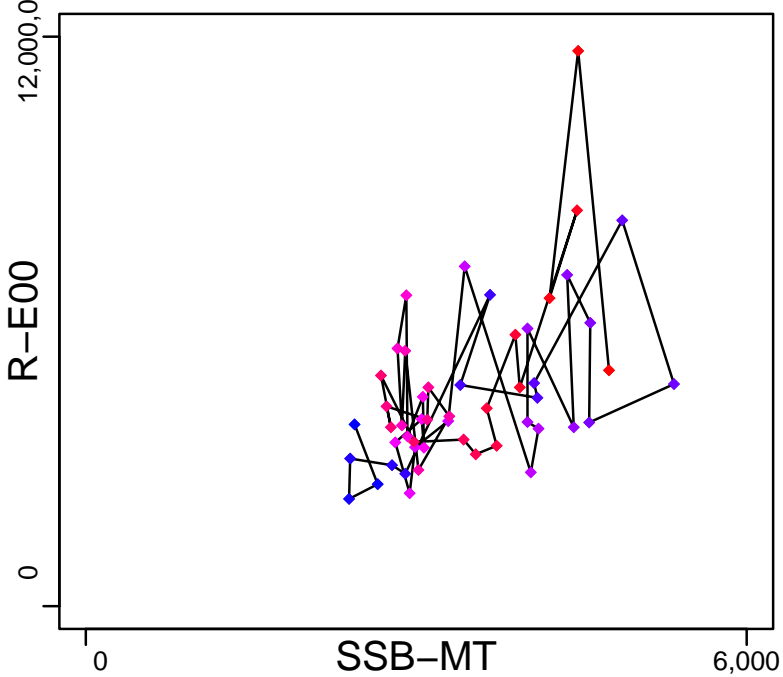
Kobe MSYpref (1969–2020–ICESIMP2021–2)



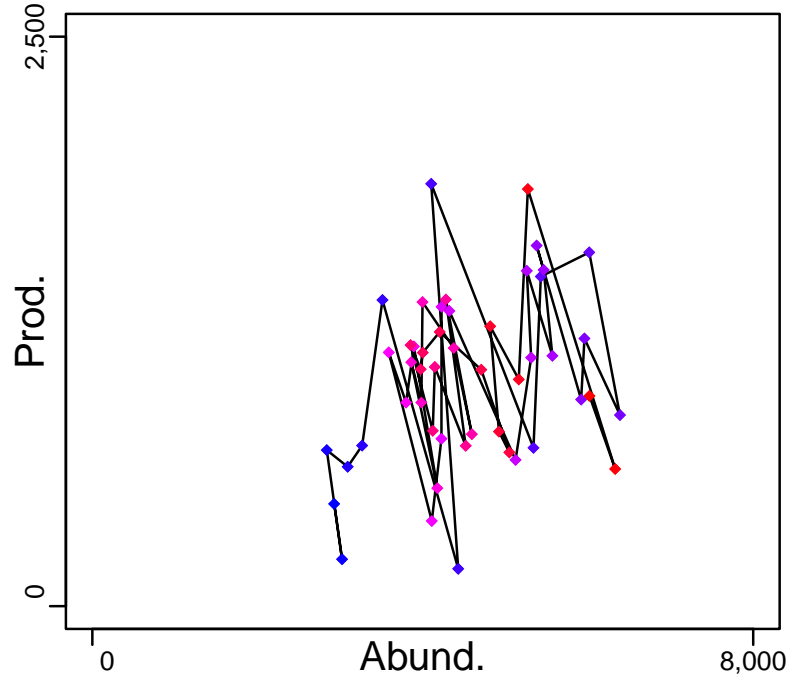
Kobe MGTpref (1969–2020–ICESIMP2021–2)



Spawner Recruit (1969–2021–ICESIMP2021–2)



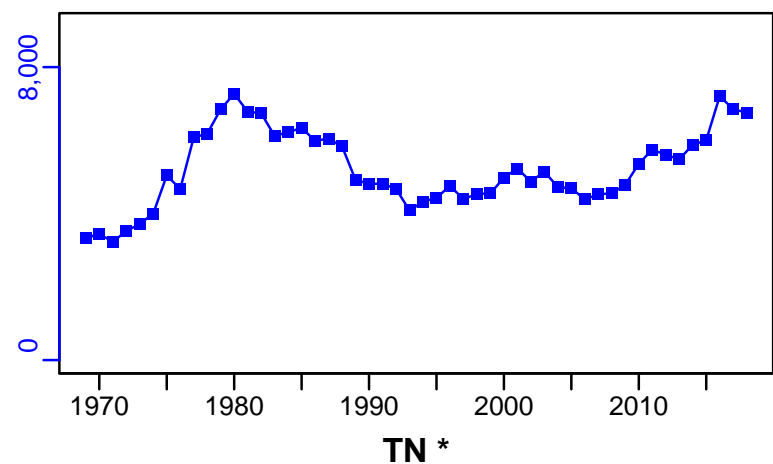
Production (1967–2019–ICESIMP2021)



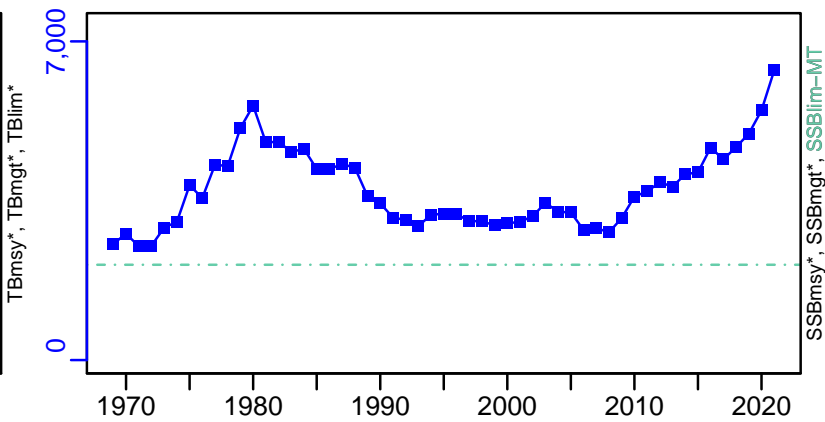
◆ Start Year ◆ End Year * No Data

Common sole Western English Channel [SOLEVile]

TB-MT (1967–2019–ICESIMP2021)



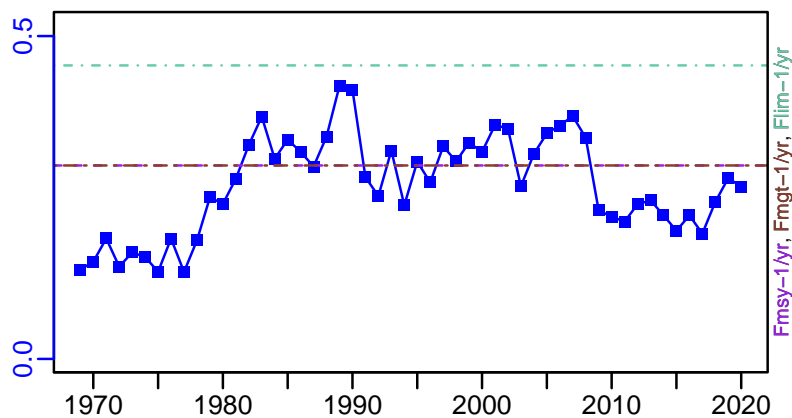
SSB-MT (1969–2021–ICESIMP2021–2)



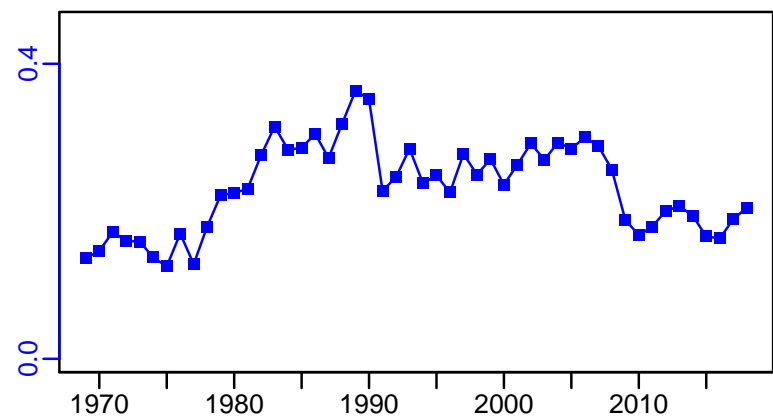
TN *



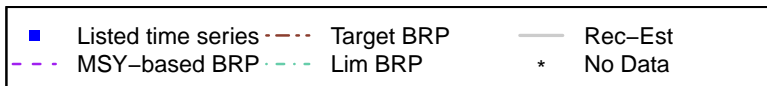
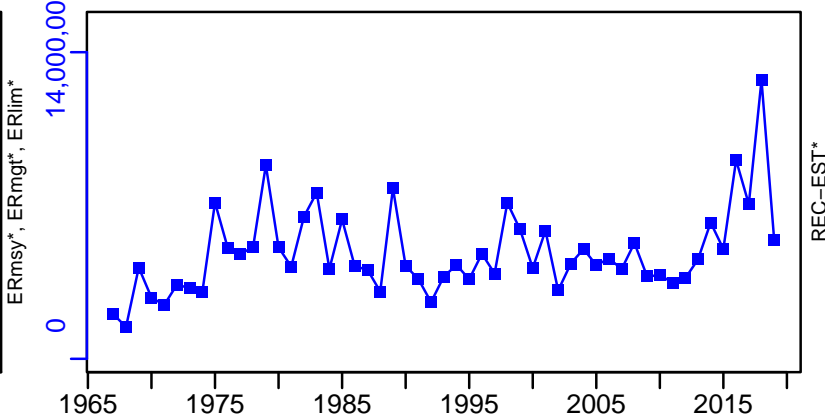
F-1/yr (1969–2021–ICESIMP2021–2)



ER-calc-ratio (1967–2019–ICESIMP2021)



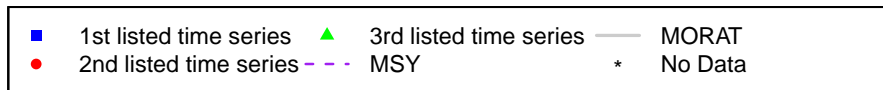
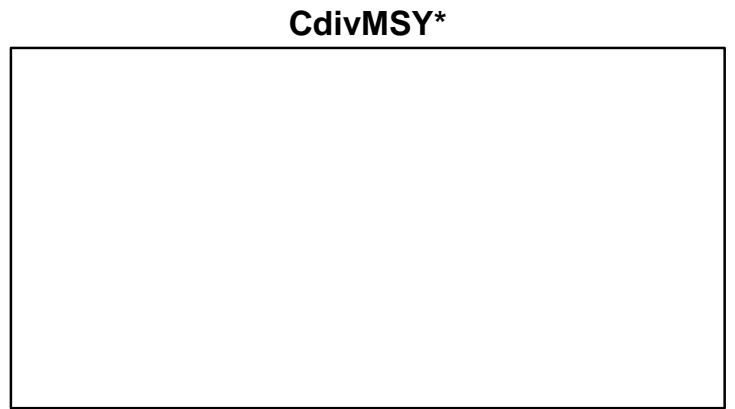
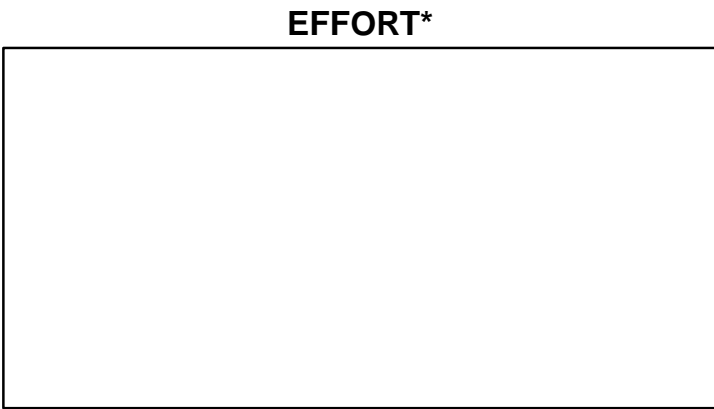
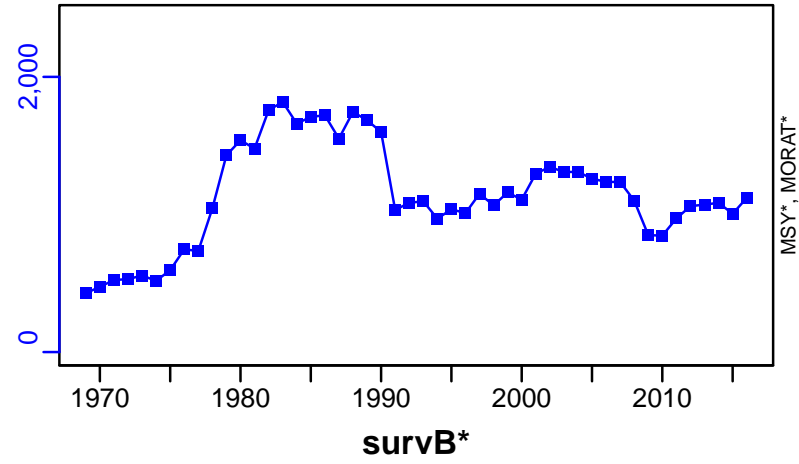
R-E00 (1969–2021–ICESIMP2021–2)



Common sole Western English Channel [SOLEVile]

TC-MT, TL*, RecC* (1967-2017-ICESIMP2018)

TAC*, Cpair*, Cadv*

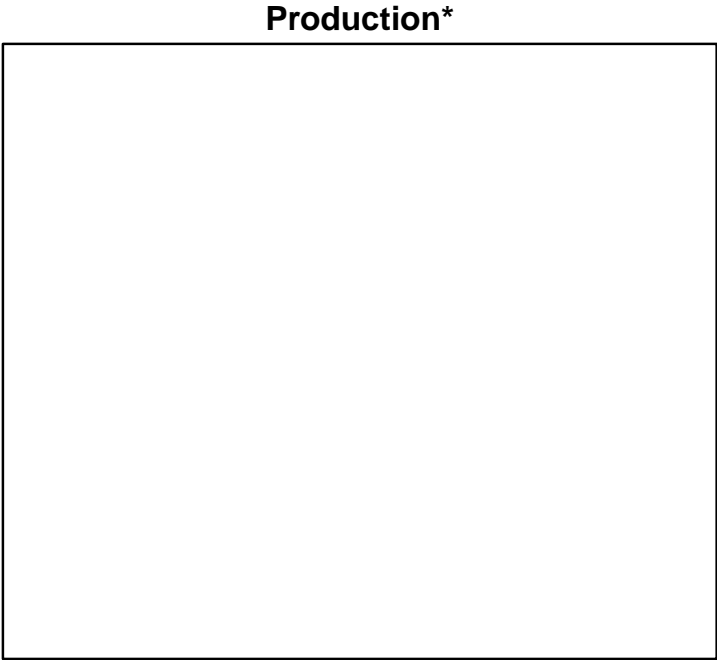
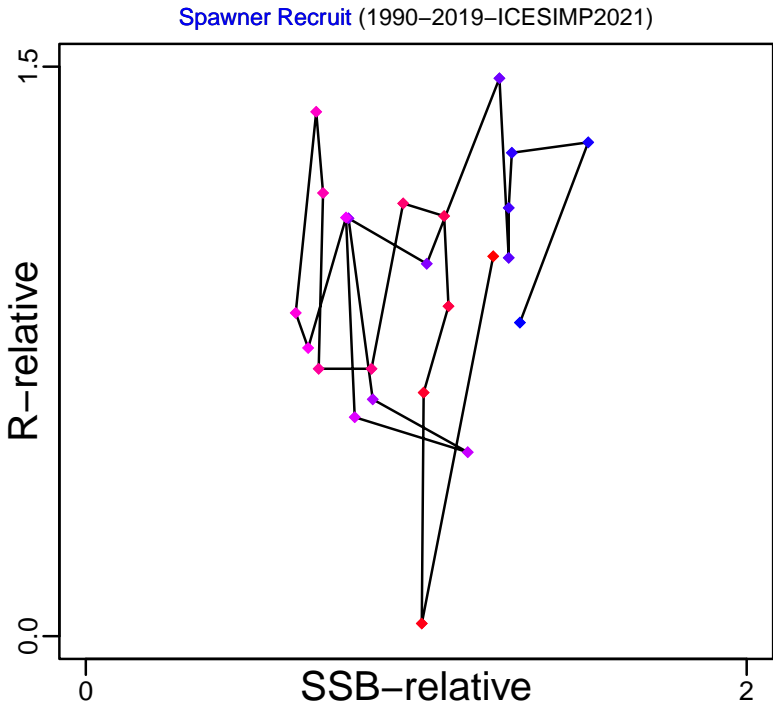
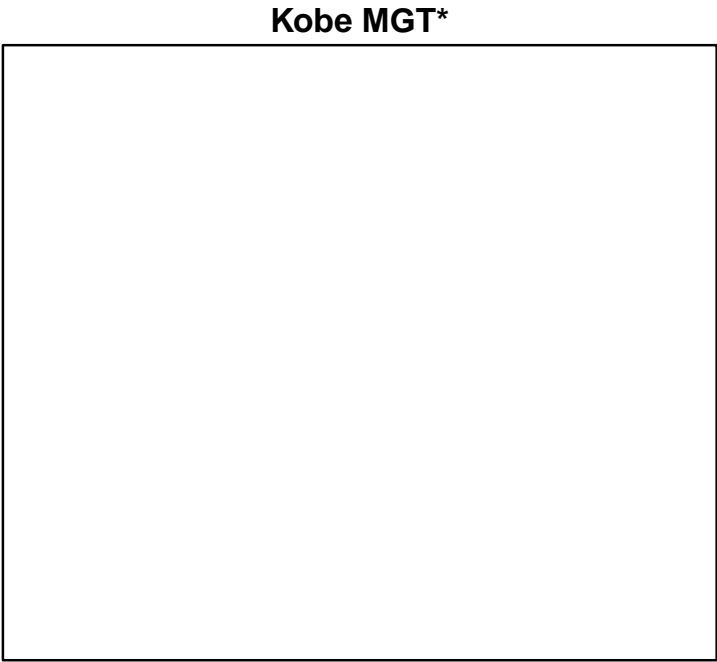
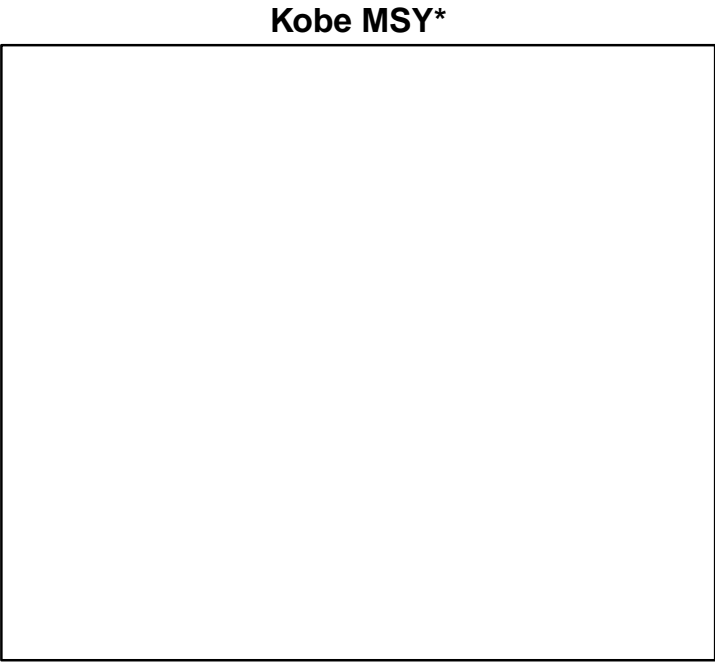


Common sole ICES 7h-k [SOLEVIIh-k]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIh-k-1996-2020-ICESIMP2021-2
Area	ICES 7h-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2018, 2019, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2018	0.161
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2019	1.109
Fmgt	Fmgt-relative	2019	0.675
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	425
Flim	Flim-relative	2018	0.222
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2019	0.865	-	-
TN	-	-	-	-	-
R	R-relative	2019	1.001	-	3
F	F-relative	2019	0.468	-	3 to 6
ER	-	-	-	-	-
TC	TC-MT	2020	299		
TL	TL-MT	2020	299		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



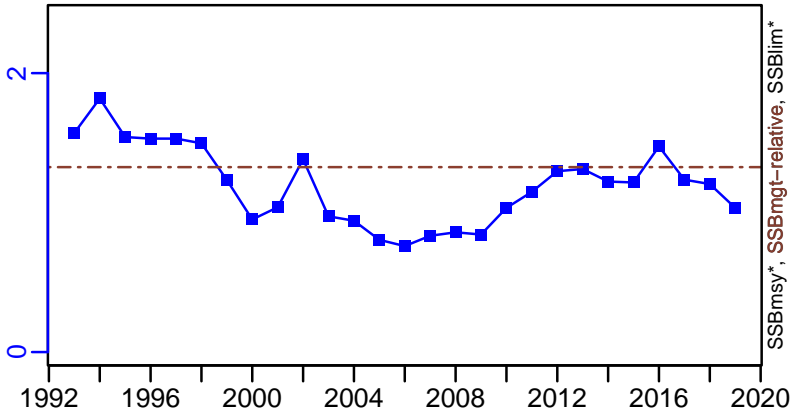
◆ Start Year ◆ End Year * No Data

Common sole ICES 7h-k [SOLEVIIh-k]

TB*



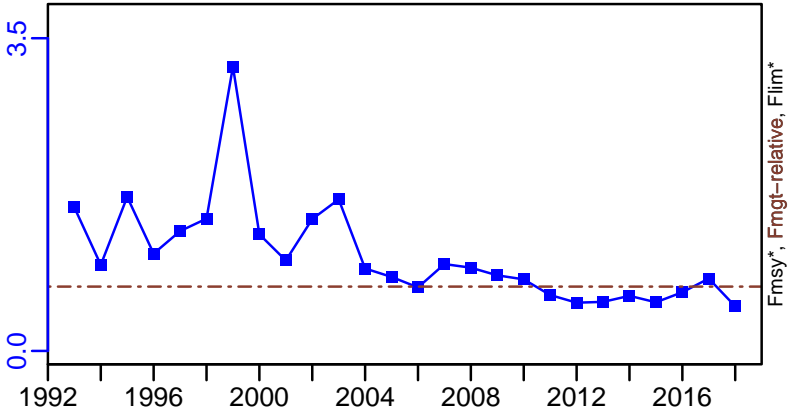
SSB-relative (1990-2019-ICESIMP2021)



TN *



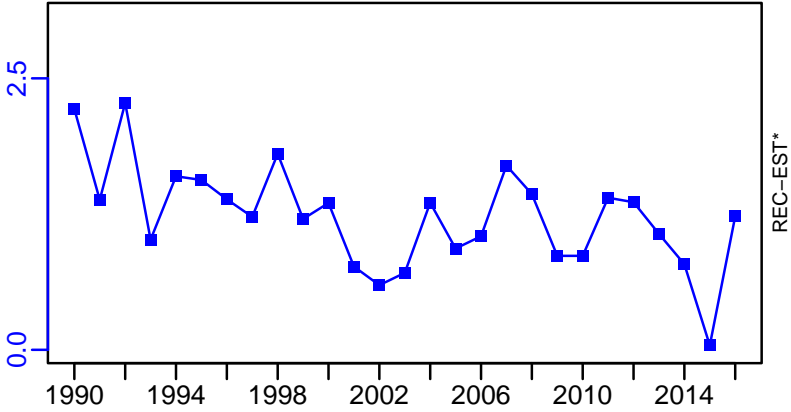
F-relative (1990-2019-ICESIMP2021)



ER*

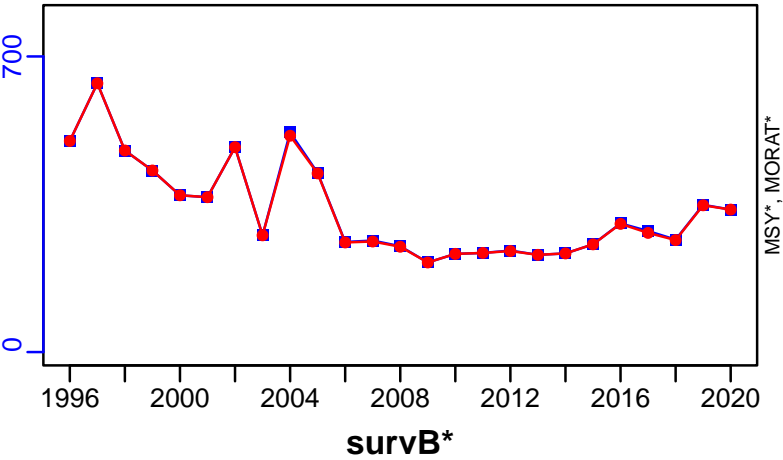


R-relative (1990-2019-ICESIMP2021)



Common sole ICES 7h-k [SOLEVIIh-k]

TC-MT, TL-MT, RecC* (1996-2020-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



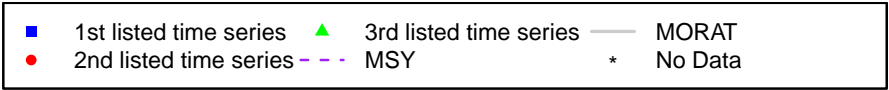
CPUE*



EFFORT*



CdivMSY*



Common sole ICES 8ab [SOLEVIIIab]

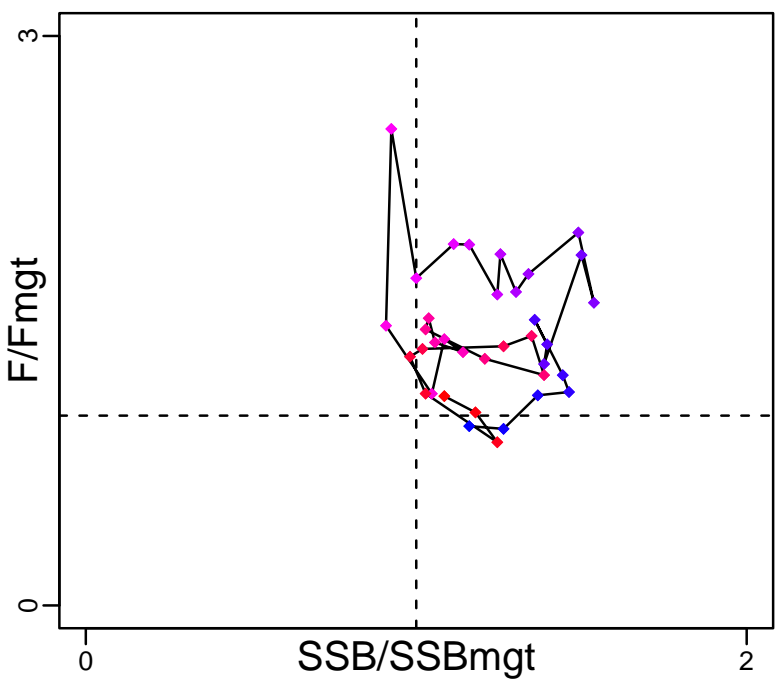
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVIIIab-1984-2020-ICESIMP2021-2
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2018, 2019, 2014, 2015, 2020, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.33
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	10,600
Fmgt	Fmgt-1/yr	2020	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	7600
Flim	Flim-1/yr	2020	0.6
ERlim	-	-	-

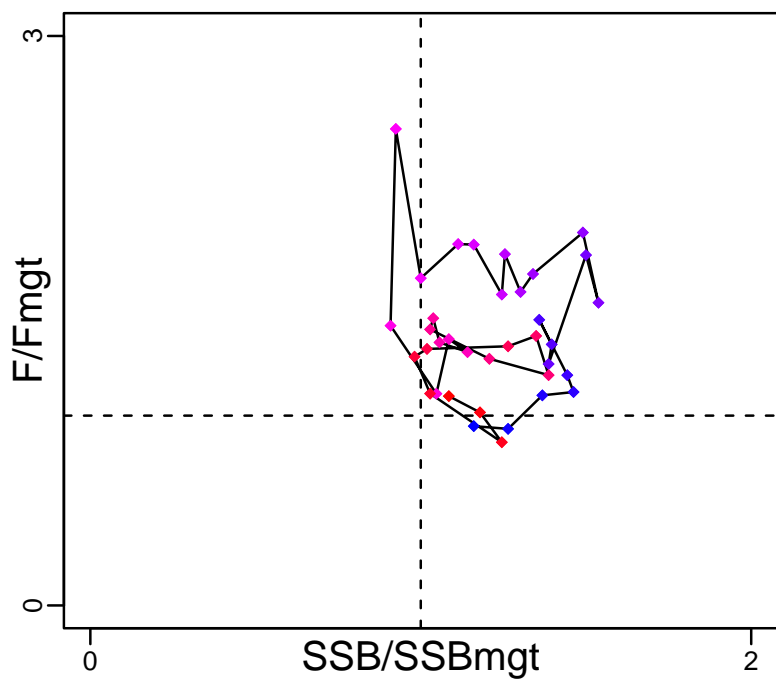
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	16,000	Both	-
SSB	SSB-MT	2020	11,800	-	-
TN	-	-	-	-	-
R	R-E00	2020	18,500,000	-	2
F	F-1/yr	2020	0.364	-	-
ER	ER-calc-ratio	2018	0.206	-	-
TC	TC-MT	2018	3300		
TL	TL-MT	2020	3400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.103		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.113		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.103		
ER/ERmgt	-	-	-		

Common sole ICES 8ab [SOLEVIIIab]

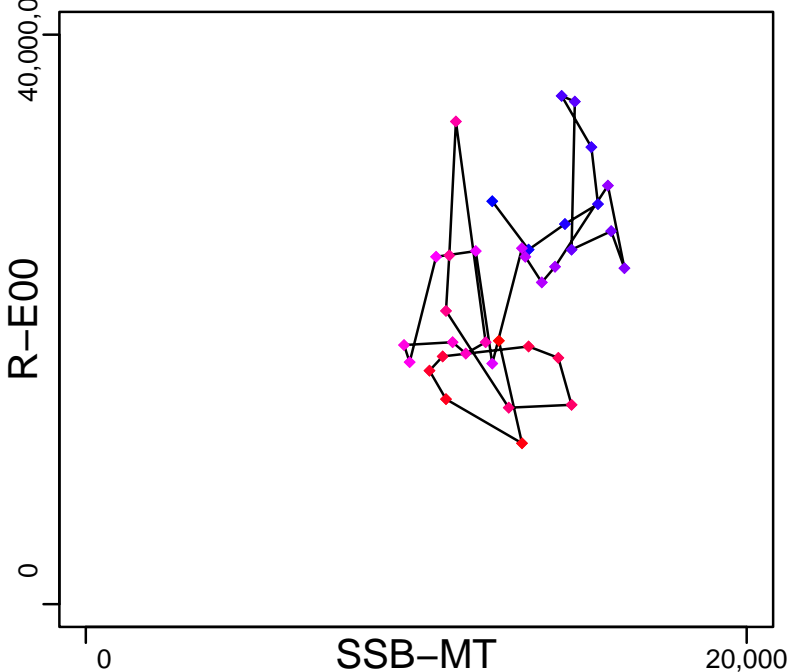
Kobe MSYpref (1984–2020–ICESIMP2021–2)



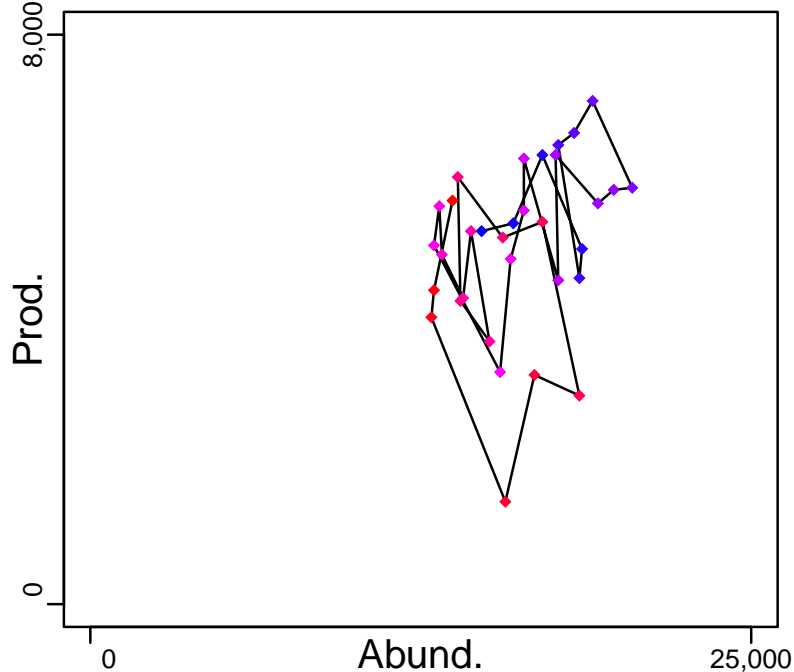
Kobe MGTpref (1984–2020–ICESIMP2021–2)



Spawner Recruit (1984–2020–ICESIMP2021–2)



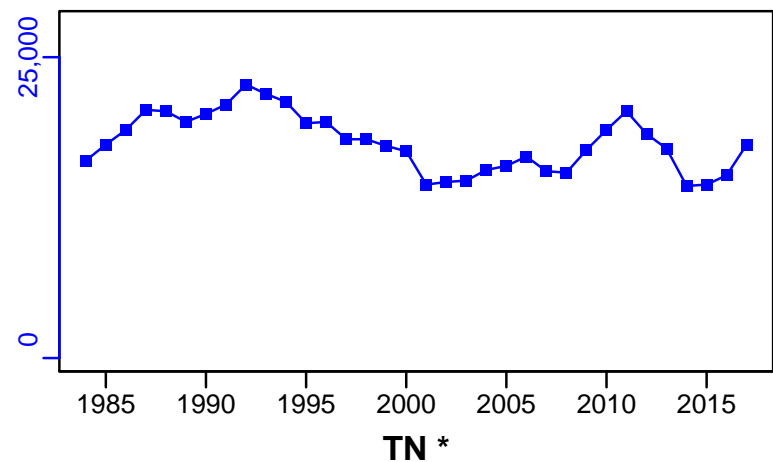
Production (1982–2018–ICESIMP2018)



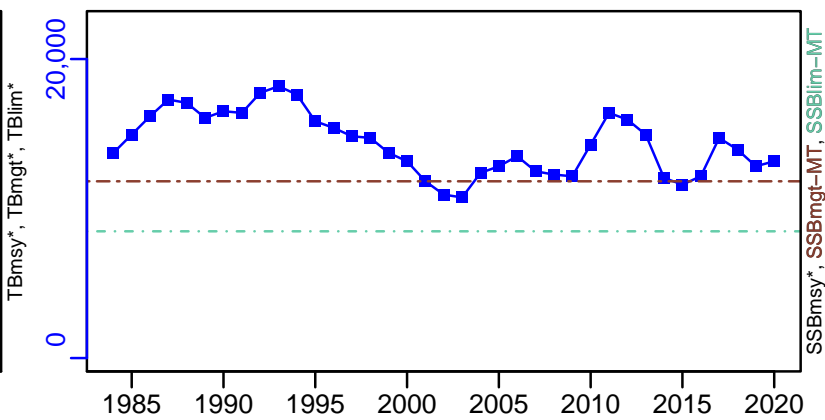
◆ Start Year ◆ End Year * No Data

Common sole ICES 8ab [SOLEVIIIab]

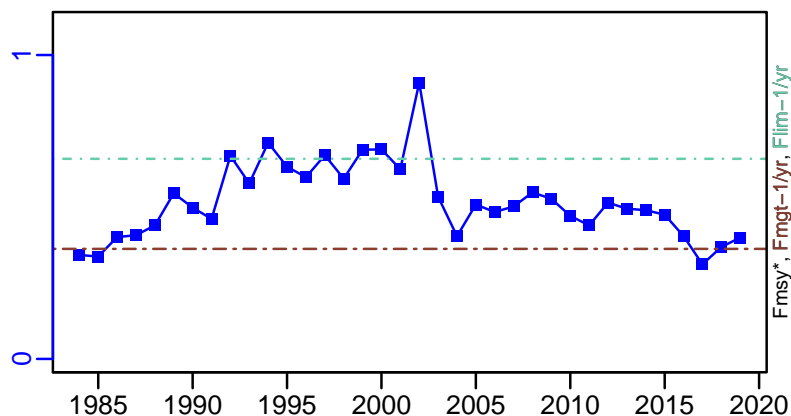
TB-MT (1982–2018–ICESIMP2018)



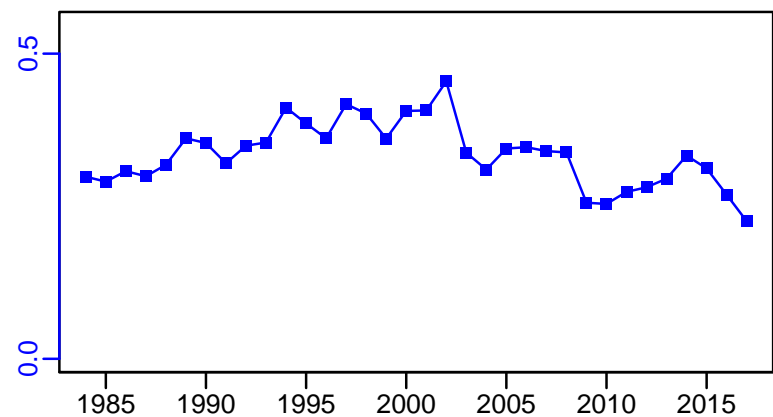
SSB-MT (1984–2020–ICESIMP2021–2)



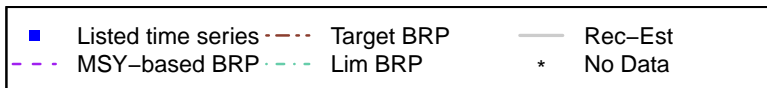
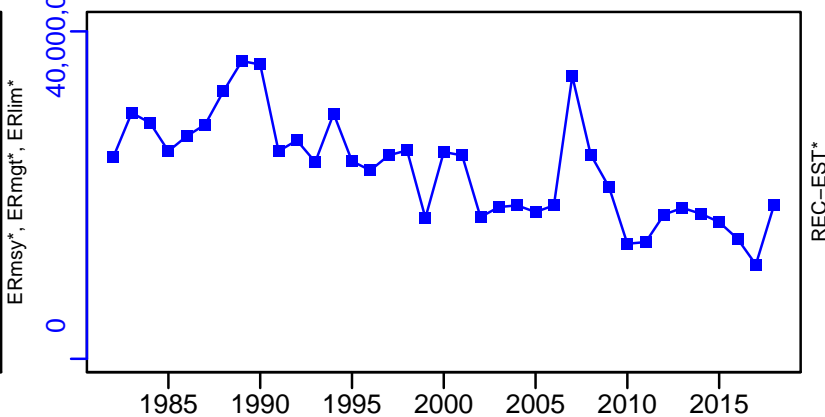
F-1/yr (1984–2020–ICESIMP2021–2)



ER-calc-ratio (1982–2018–ICESIMP2018)



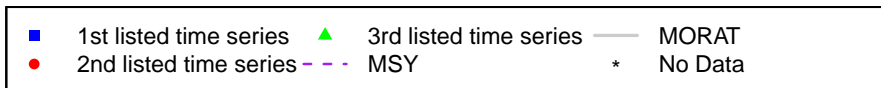
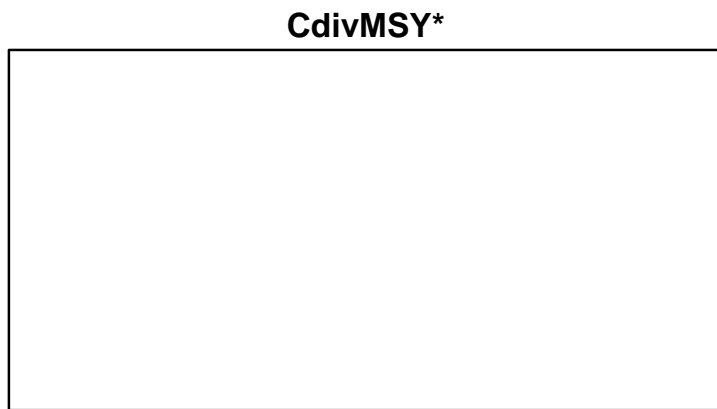
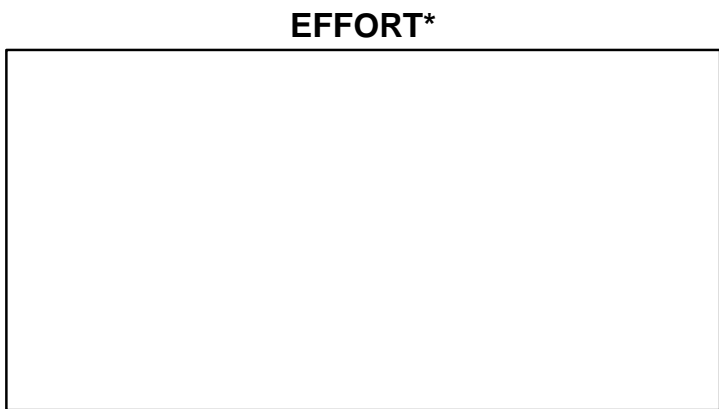
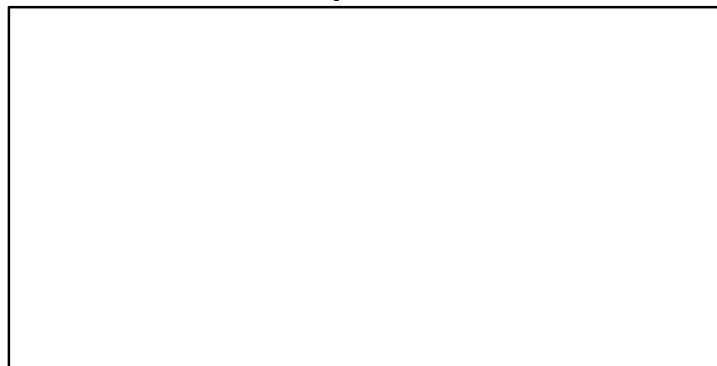
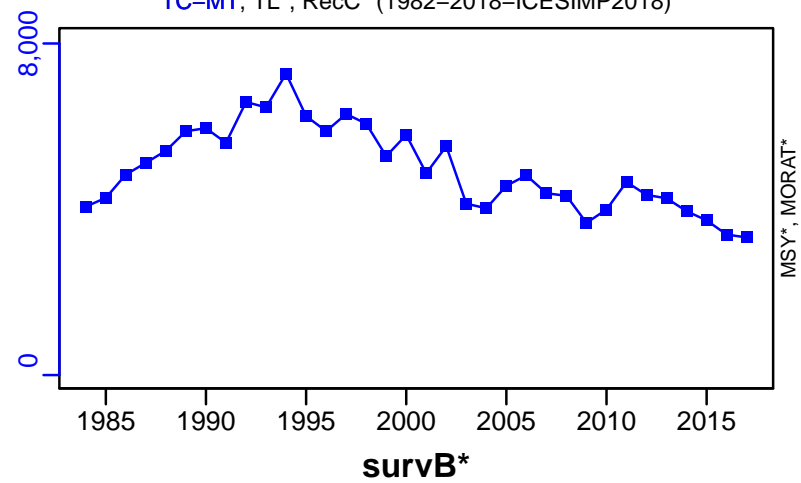
R-E00 (1984–2020–ICESIMP2021–2)



Common sole ICES 8ab [SOLEVIIIab]

TC-MT, TL*, RecC* (1982-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



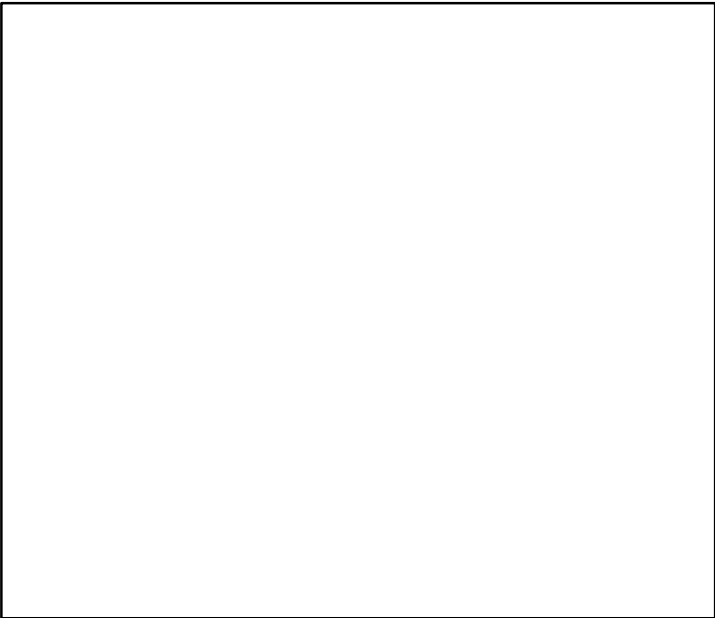
Common sole ICES 8c-9a [SOLEVIIIc-IXa]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVIIIc-IXa-2000-2018-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2011, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	579		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

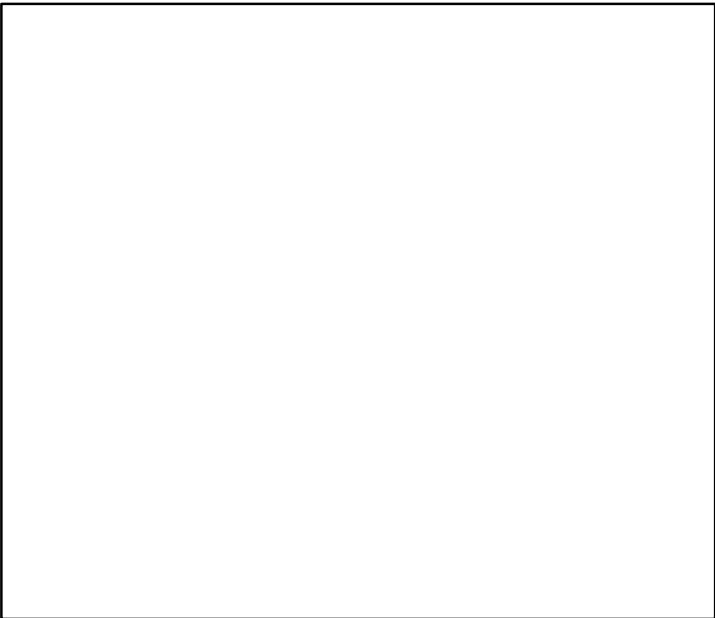
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



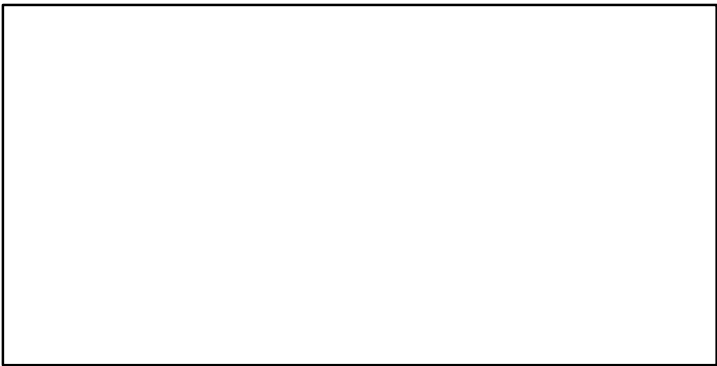
F*



ER*



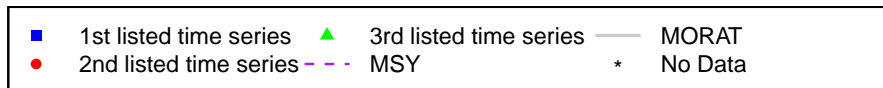
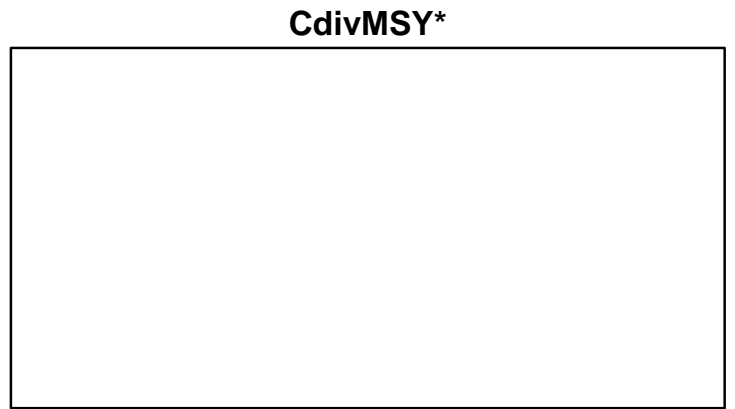
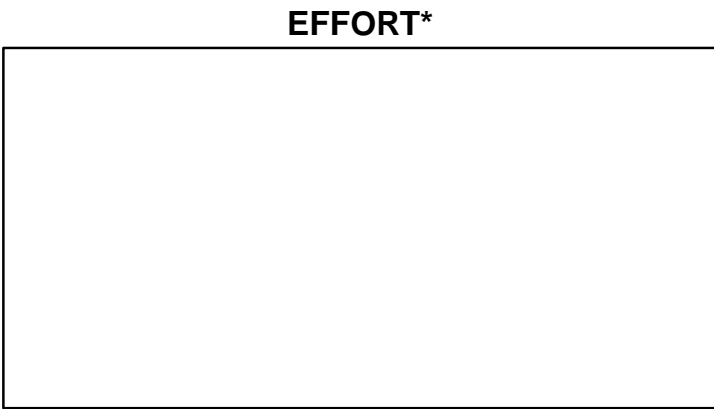
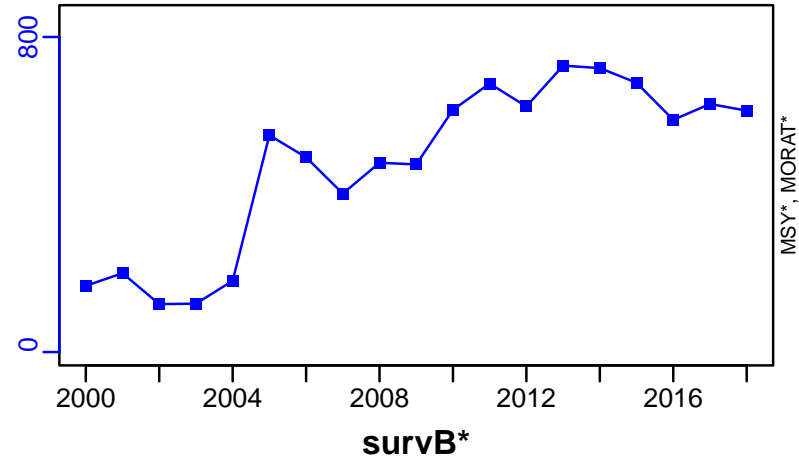
Recruits*



Common sole ICES 8c–9a [SOLEVIIIc–IXa]

TL–MT, TC*, RecC* (2000–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



Common sole Northern Adriatic Sea [SOLMEDGSA17]

Metadata	
Scientific Name	Solea solea
Current Assess ID	STECF-SOLMEDGSA17-2006-2018-MEDIMP2021-2
Area	Northern Adriatic Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2011, 2014, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2018	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

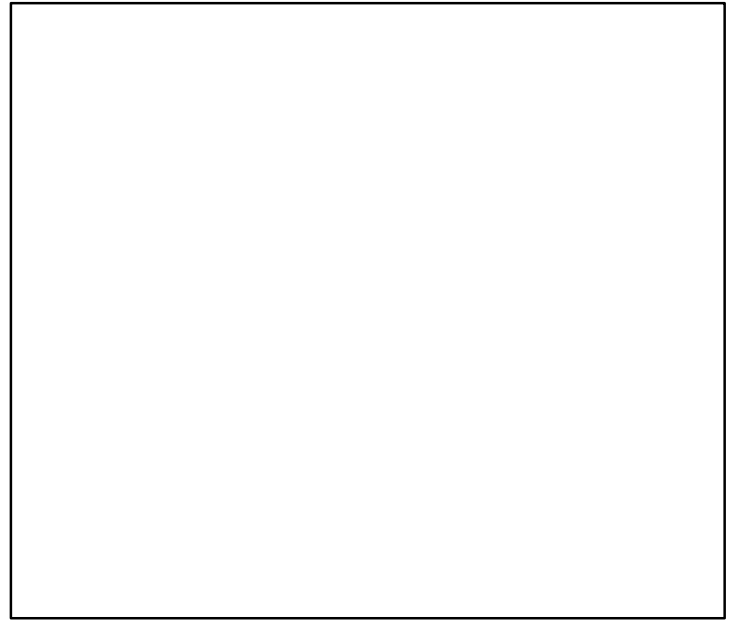
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	2859	-	-
TN	-	-	-	-	-
R	R-E00	2018	91,628,000	-	-
F	F-1/yr	2018	0.68	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	1849		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	2.957		
ER/ERmgt	-	-	-		

Common sole Northern Adriatic Sea [SOLMEDGSA17]

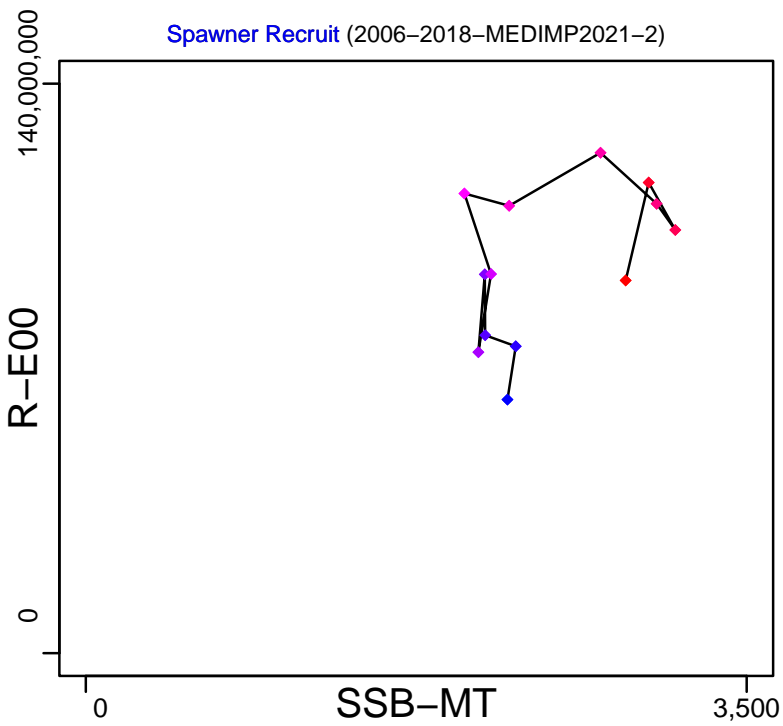
Kobe MSY*



Kobe MGT*



Spawner Recruit (2006–2018–MEDIMP2021–2)

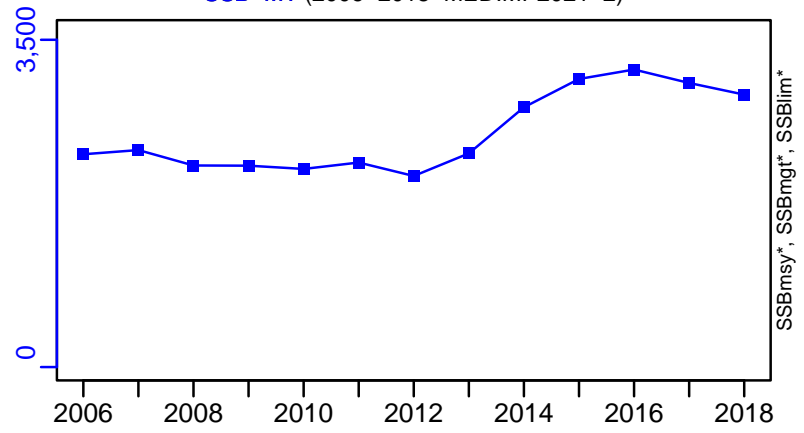


Common sole Northern Adriatic Sea [SOLMEDGSA17]

TB*



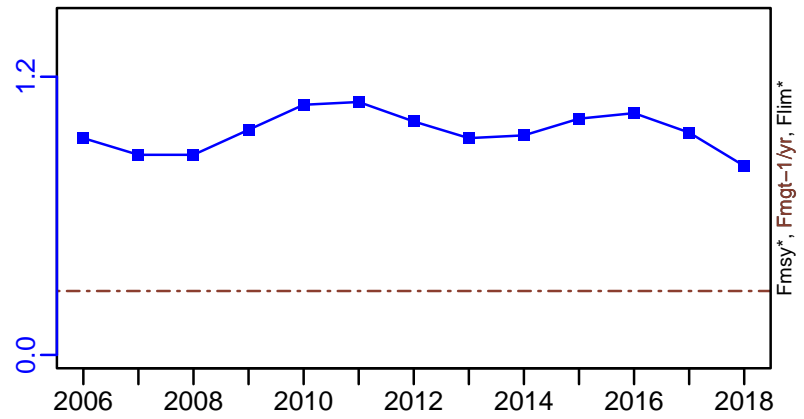
SSB-MT (2006-2018-MEDIMP2021-2)



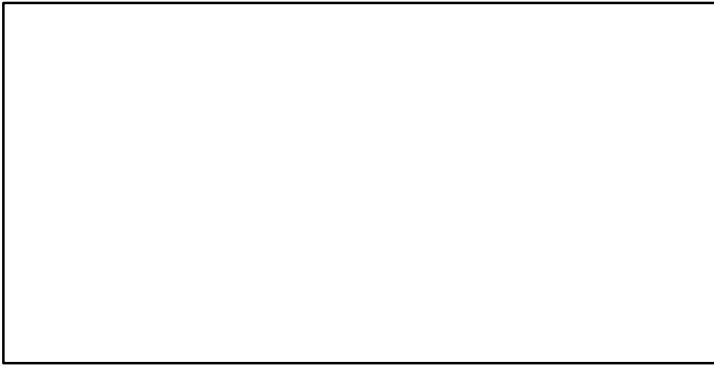
TN *



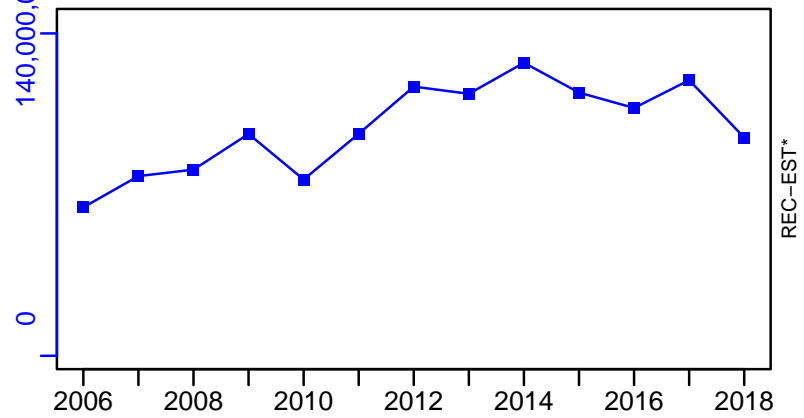
F-1/yr (2006-2018-MEDIMP2021-2)



ER*



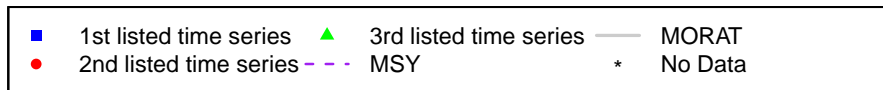
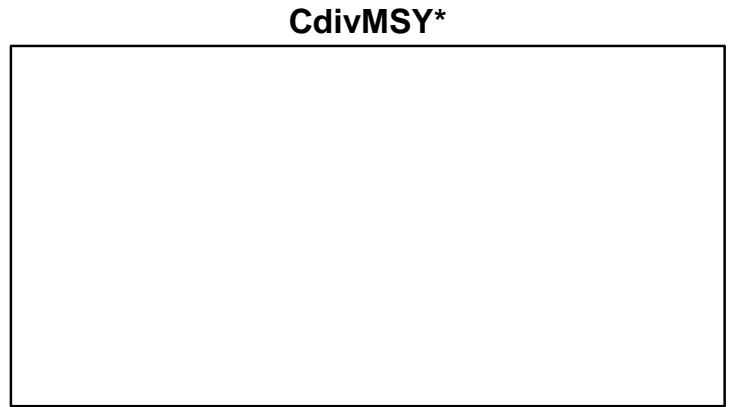
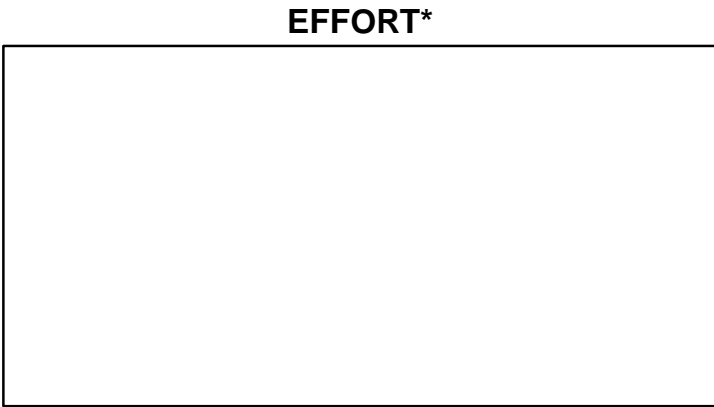
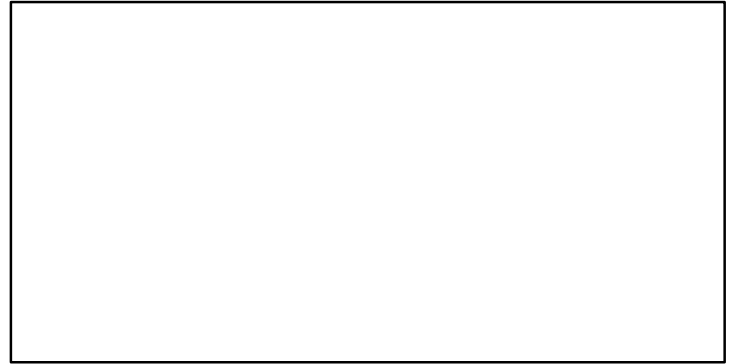
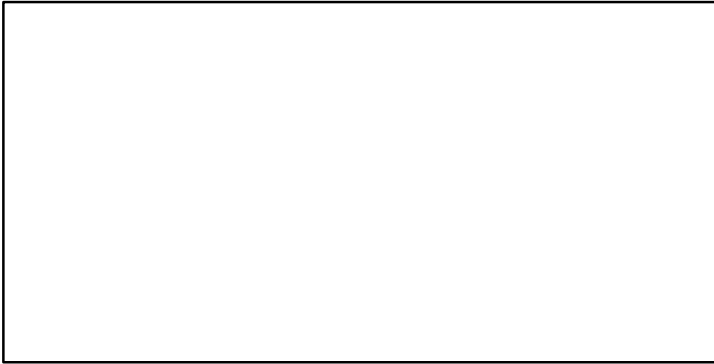
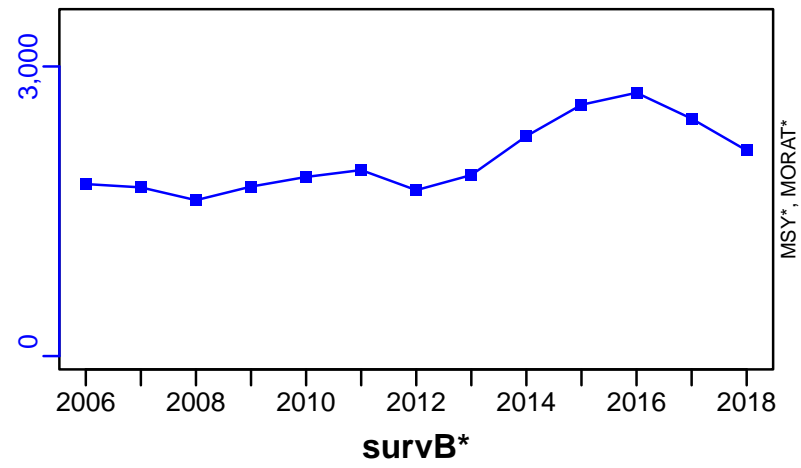
R-E00 (2006-2018-MEDIMP2021-2)



Common sole Northern Adriatic Sea [SOLMEDGSA17]

TC-MT, TL*, RecC* (2006–2018–MEDIMP2021–2)

TAC*, Cpair*, Cadv*

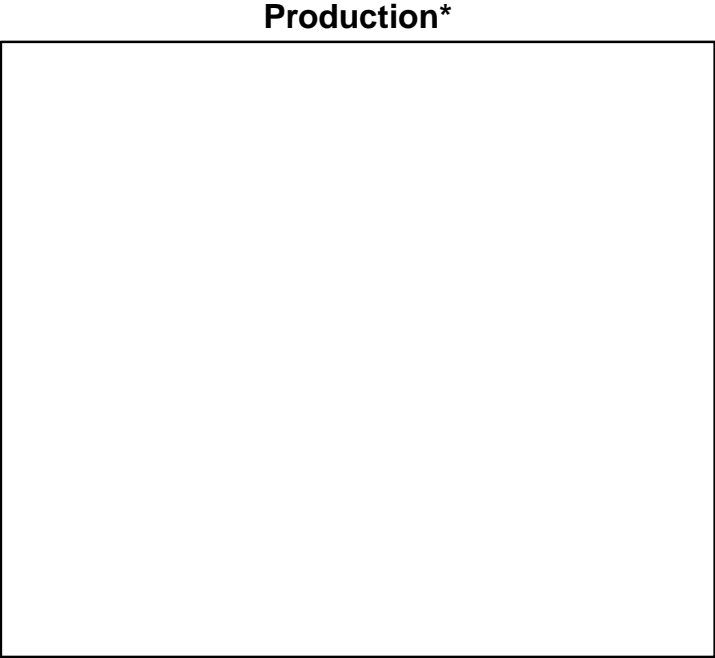
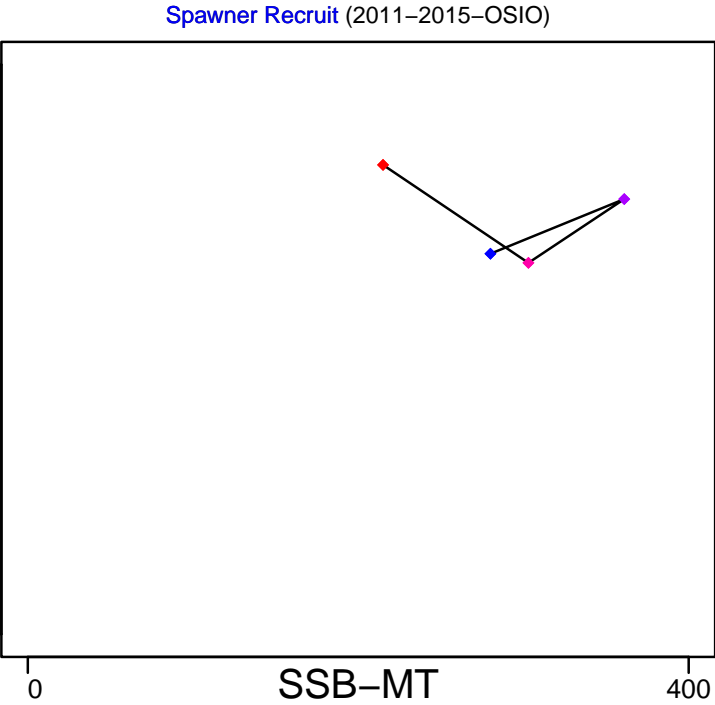
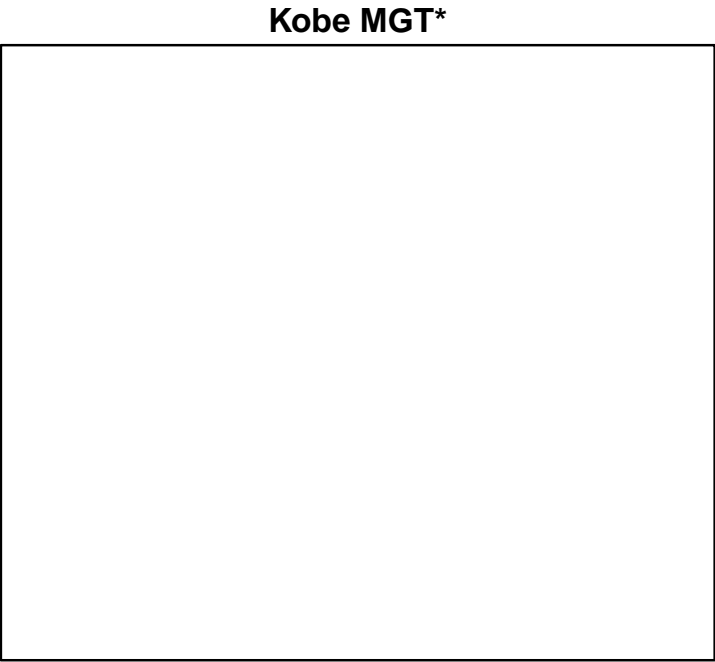
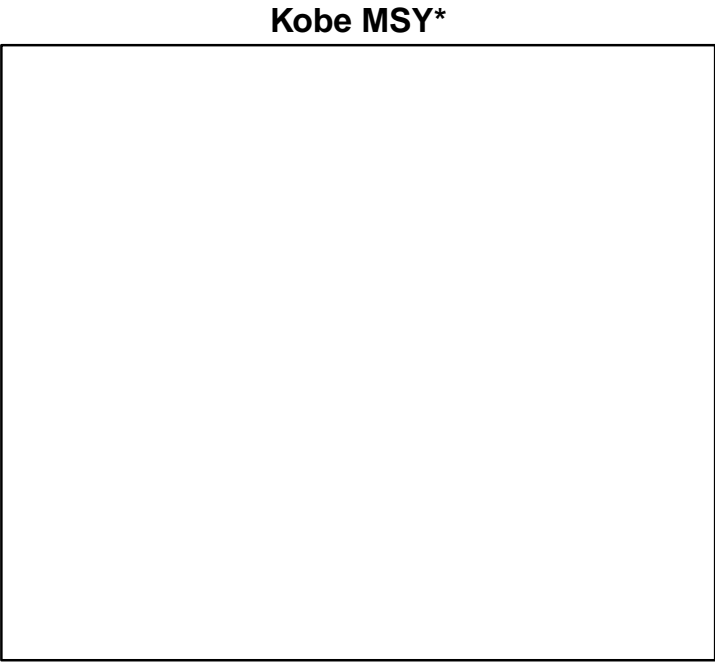


Common sole Gulf of Lions [SOLMEDGSA7]

Metadata	
Scientific Name	Solea solea
Current Assess ID	STECF-SOLMEDGSA7-2011-2015-OSIO
Area	Gulf of Lions
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	215	-	-
TN	-	-	-	-	-
R	R-E00	2015	2,060,000	-	-
F	F-1/yr	2015	0.63	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	184		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	7.412		
ER/ERmgt	-	-	-		



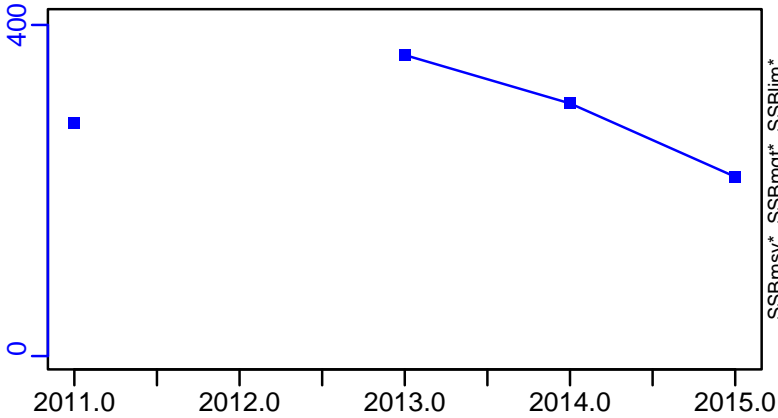
◆ Start Year ◆ End Year * No Data

Common sole Gulf of Lions [SOLMEDGSA7]

TB*



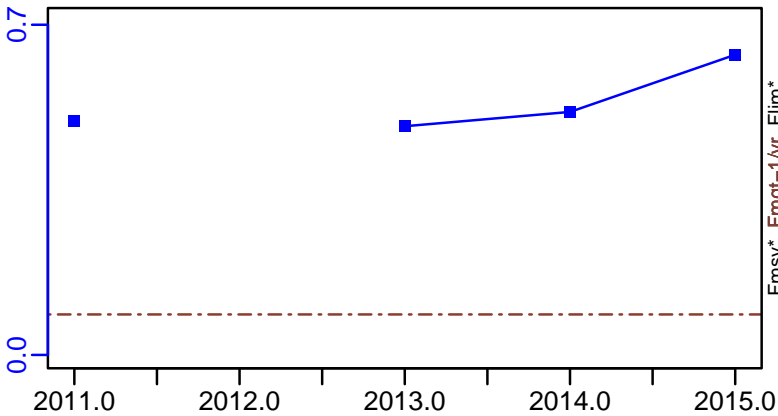
SSB-MT (2011–2015–OSIO)



TN *



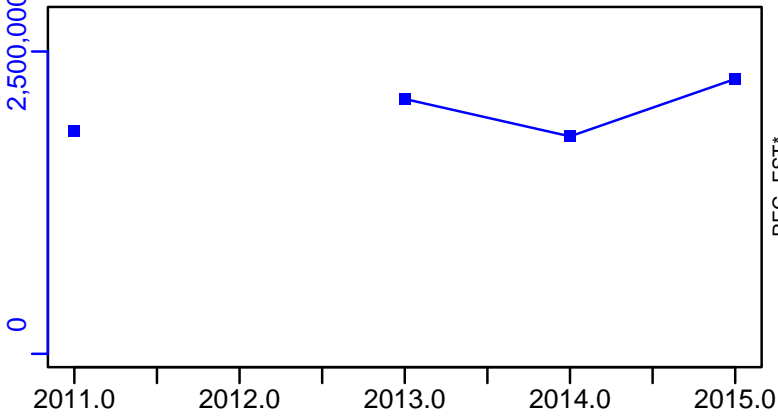
F-1/yr (2011–2015–OSIO)



ER*

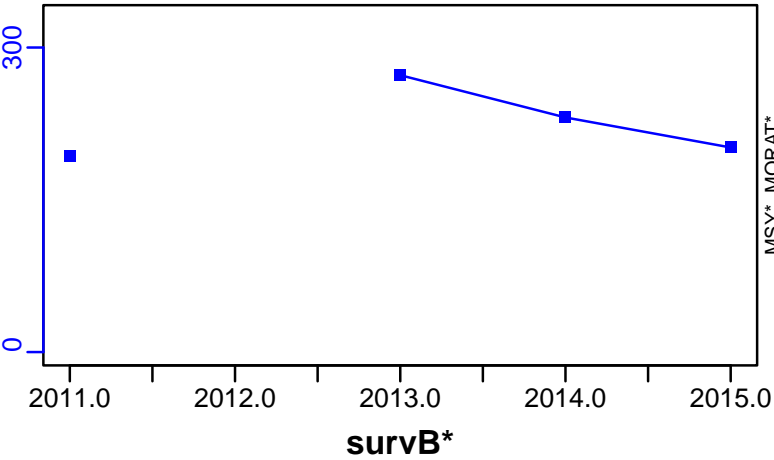


R-E00 (2011–2015–OSIO)



Common sole Gulf of Lions [SOLMEDGSA7]

TL-MT, TC*, RecC* (2011-2015-OSIO)



TAC*, Cpair*, Cadv*



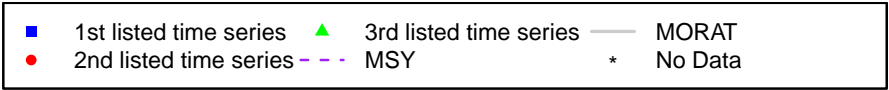
CPUE*



EFFORT*



CdivMSY*



Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

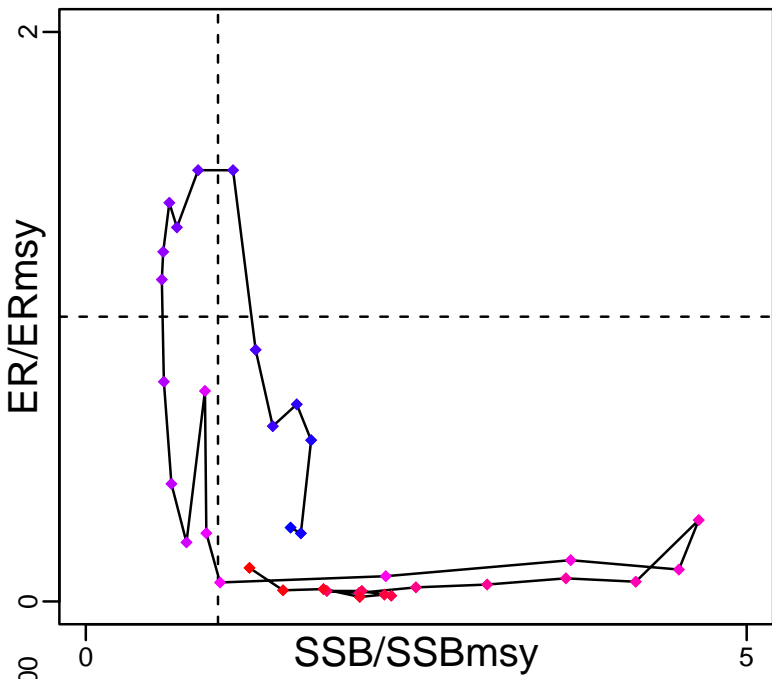
Metadata	
Scientific Name	Platichthys stellatus
Current Assess ID	SWFSC-STFLOUNNPCOAST-1970-2005-STANTON
Area	Northern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2005	4840
SSBmsy	SSBmsy-pr-MT	2005	1930
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2005	0.169
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	12,102
SSB0	SSB0-MT	2005	4824
MSY	MSY-MT	2005	818
M	M-1/yr	2005	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

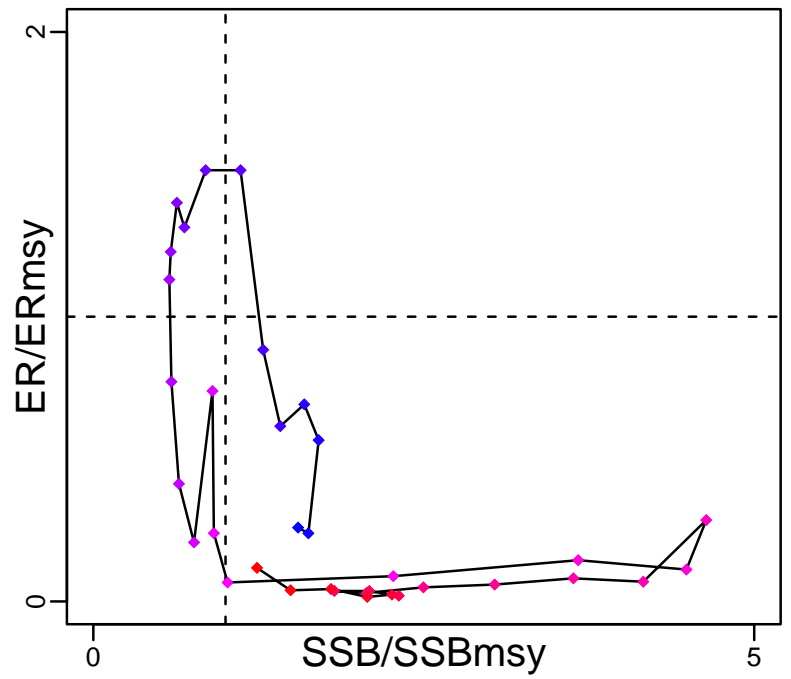
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2005	5440	-	2+
SSB	SSB-MT	2005	2120	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	1.6×10^9	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2005	0.02	-	-
TC	TC-MT	2005	104		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.124		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2005	1.098		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-pr-ratio	2005	0.118		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

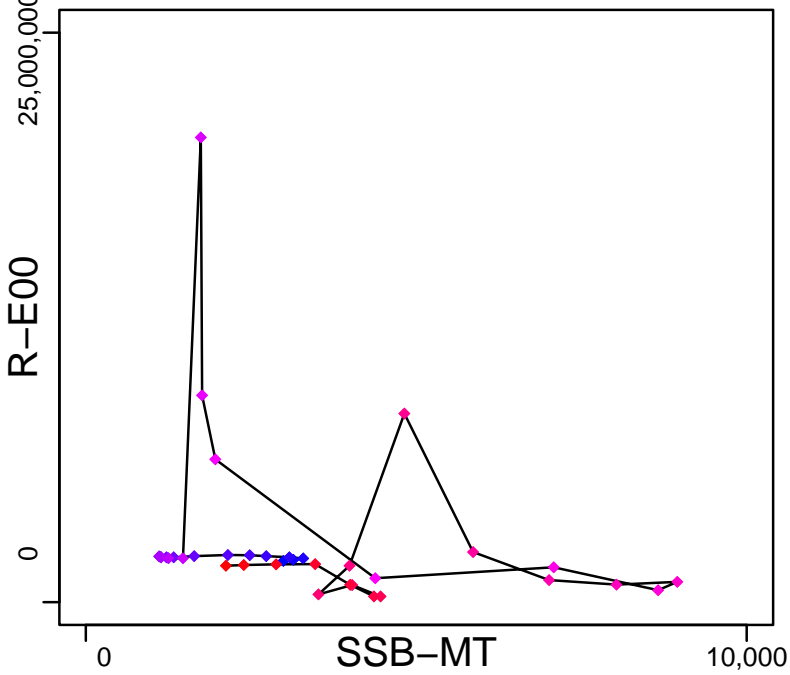
Kobe MSYpref (1970–2005–STANTON)



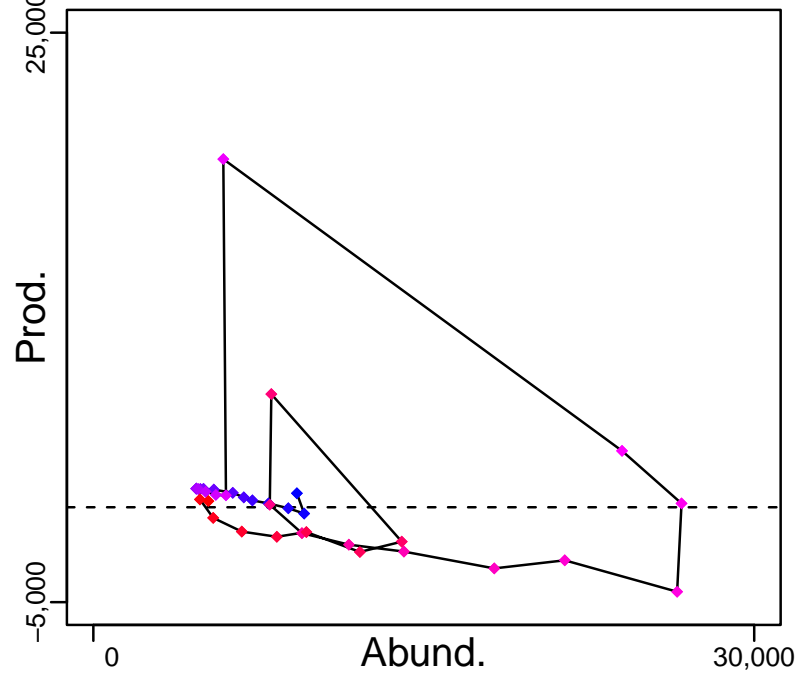
Kobe MGTpref (1970–2005–STANTON)



Spawner Recruit (1970–2005–STANTON)



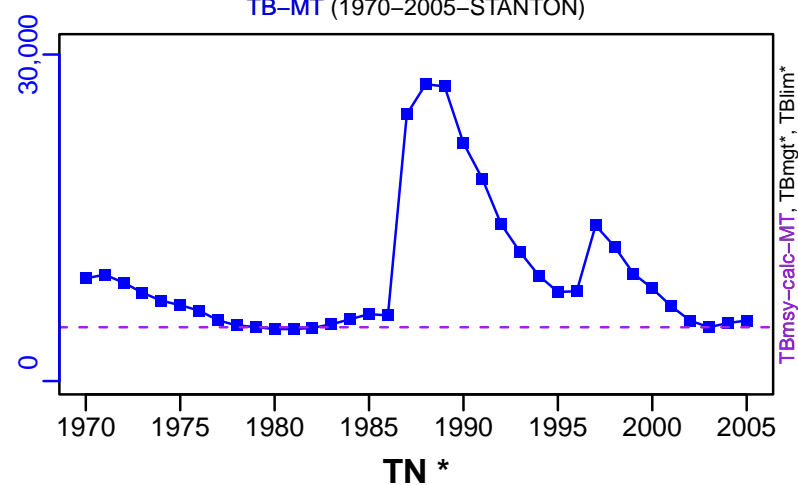
Production (1970–2005–STANTON)



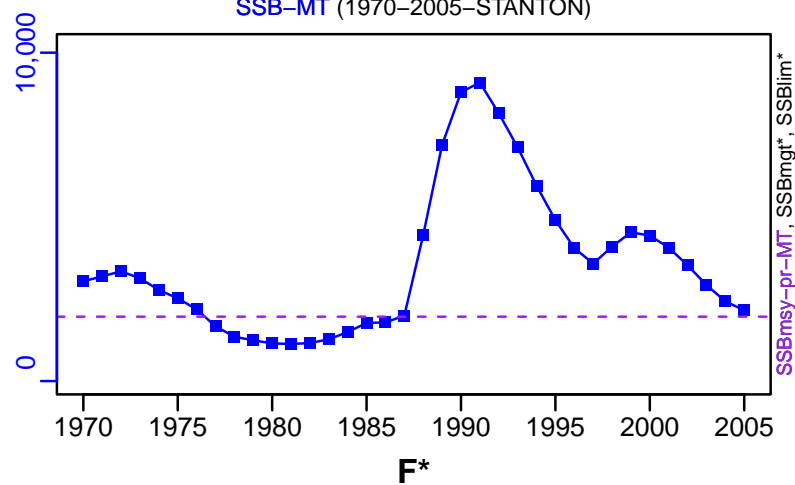
◆ Start Year ◆ End Year * No Data

Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

TB-MT (1970-2005-STANTON)



SSB-MT (1970-2005-STANTON)



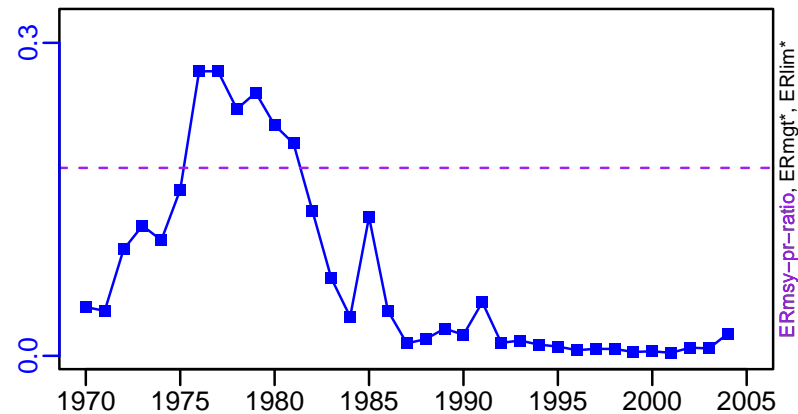
TN *



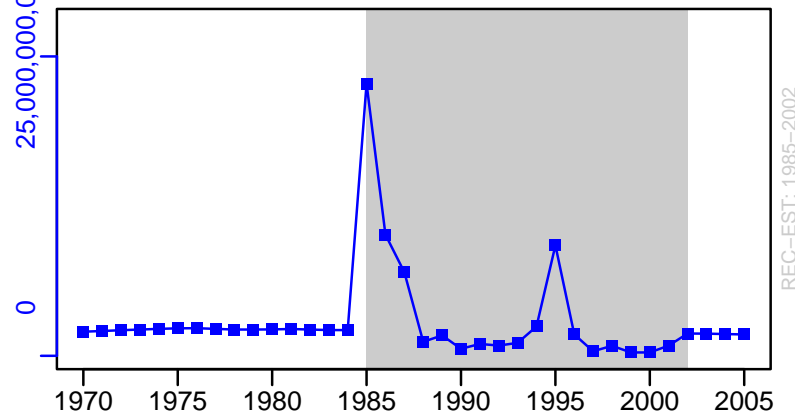
F*



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

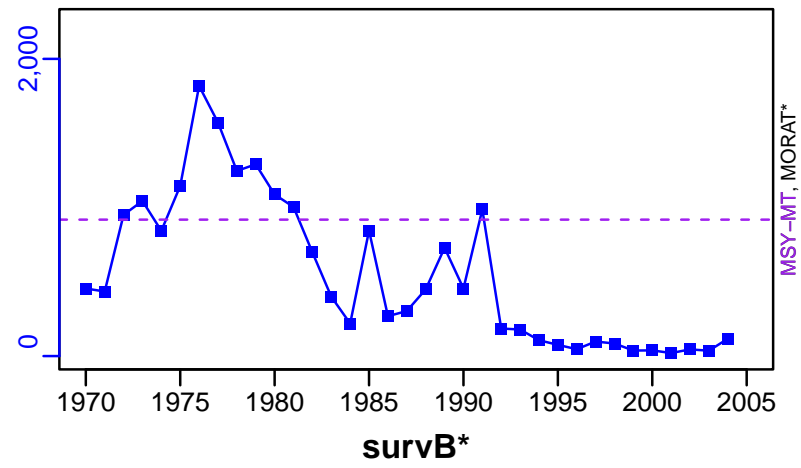


R-E00 (1970-2005-STANTON)



Starry flounder Northern Pacific Coast [STFLOUNNPCOAST]

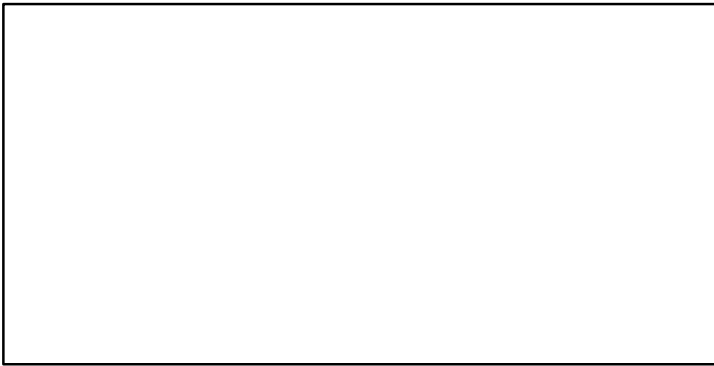
TC-MT, TL*, RecC* (1970-2005-STANTON)



TAC*, Cpair*, Cadv*



survB*



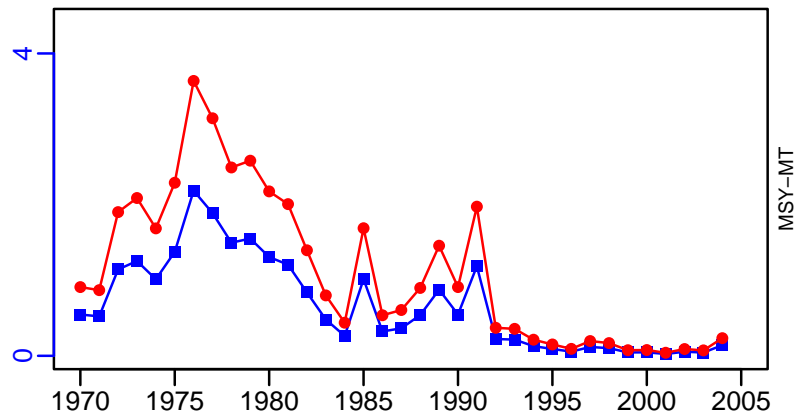
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970-2005-STANTON)



Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

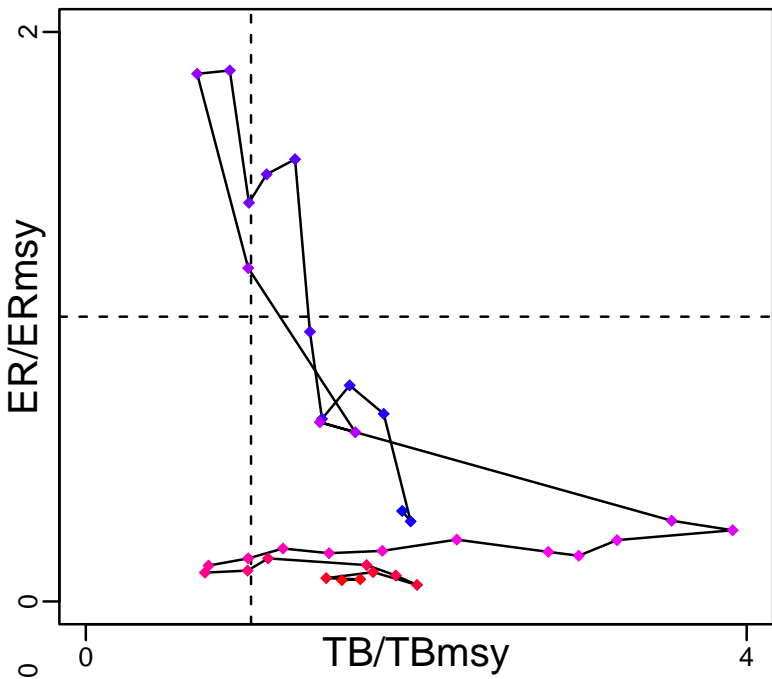
Metadata	
Scientific Name	Platichthys stellatus
Current Assess ID	SWFSC-STFLOUNSPCOAST-1970-2005-STANTON
Area	Southern Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southwest Fisheries Science Center
Asmts in RAM	2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2005	2329
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-calc-ratio	2005	0.17
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2005	5854
SSB0	SSB0-MT	2005	2334
MSY	MSY-MT	2005	396
M	M-1/yr	2005	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

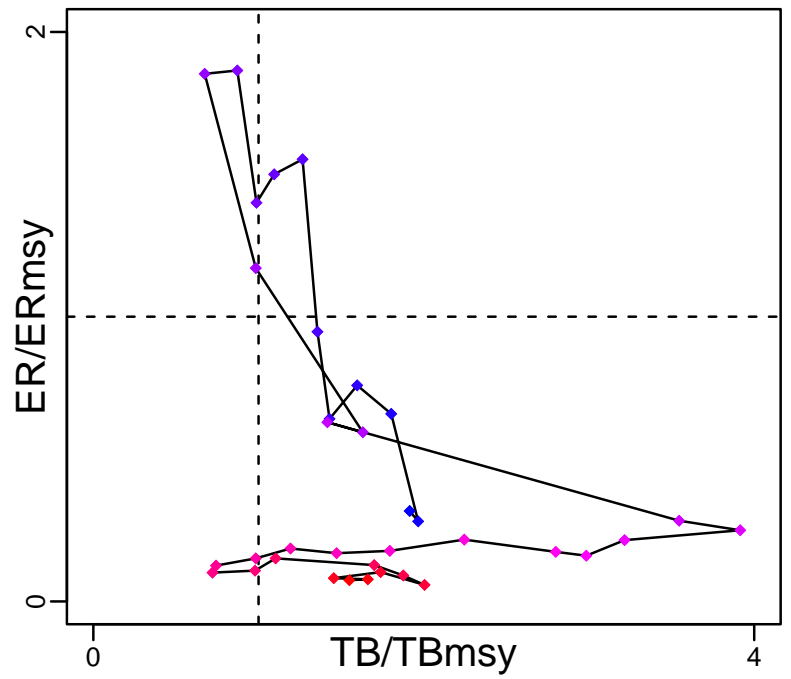
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2005	3460	-	2+
SSB	SSB-MT	2005	1450	Females	3+
TN	-	-	-	-	-
R	R-E00	2005	8.07×10^8	-	0
F	-	-	-	-	-
ER	ER-ratio	2005	0.013	-	-
TC	TC-MT	2005	46		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2005	1.485		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2005	0.075		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

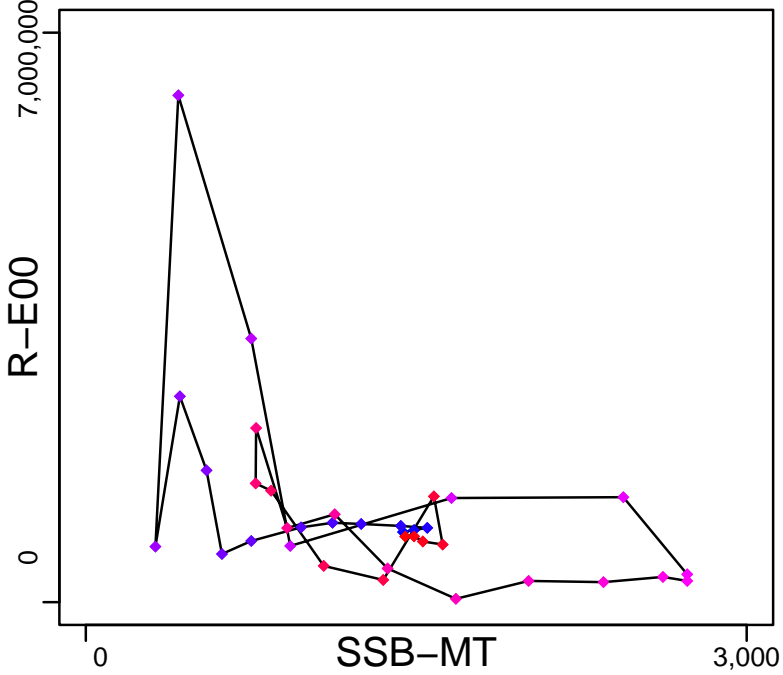
Kobe MSYpref (1970–2005–STANTON)



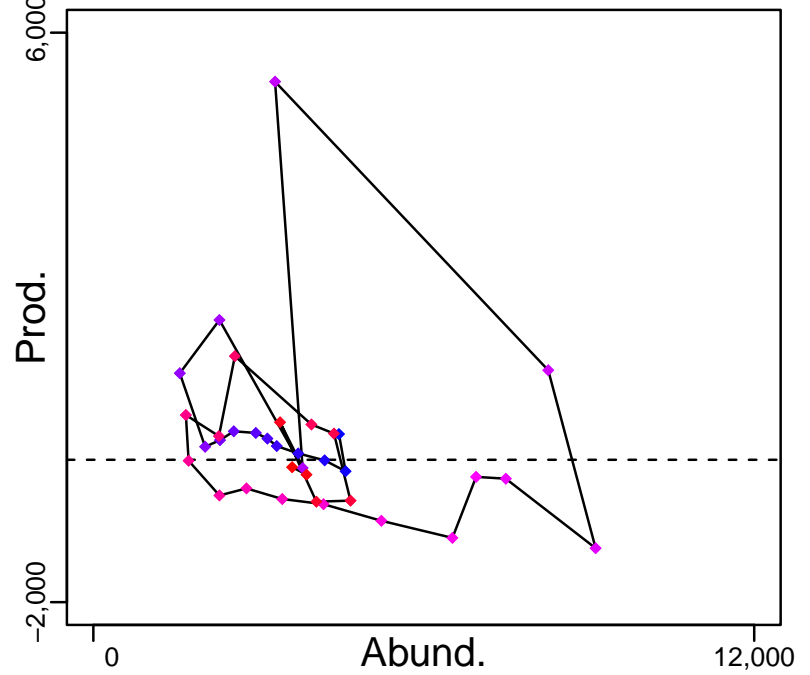
Kobe MGTpref (1970–2005–STANTON)



Spawner Recruit (1970–2005–STANTON)



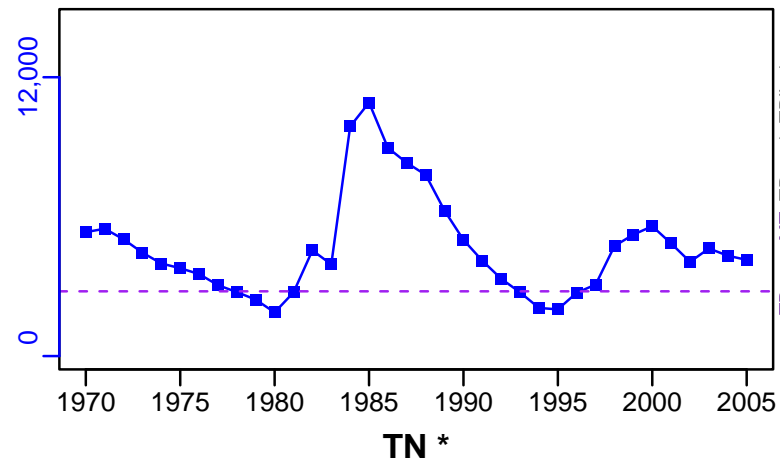
Production (1970–2005–STANTON)



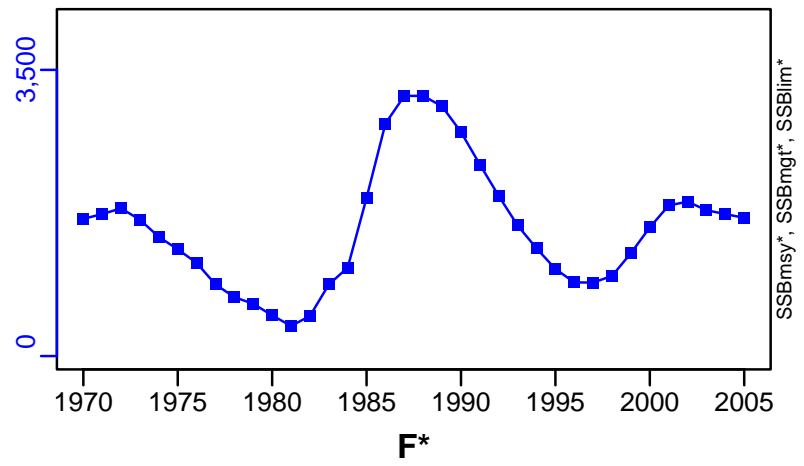
◆ Start Year ◆ End Year * No Data

Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

TB-MT (1970–2005–STANTON)

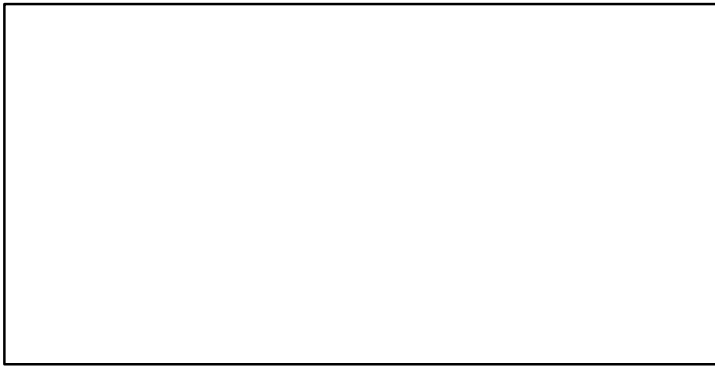


SSB-MT (1970–2005–STANTON)

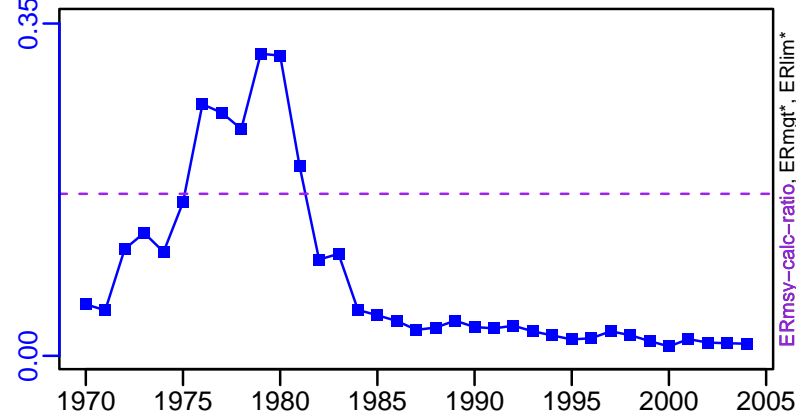


TN *

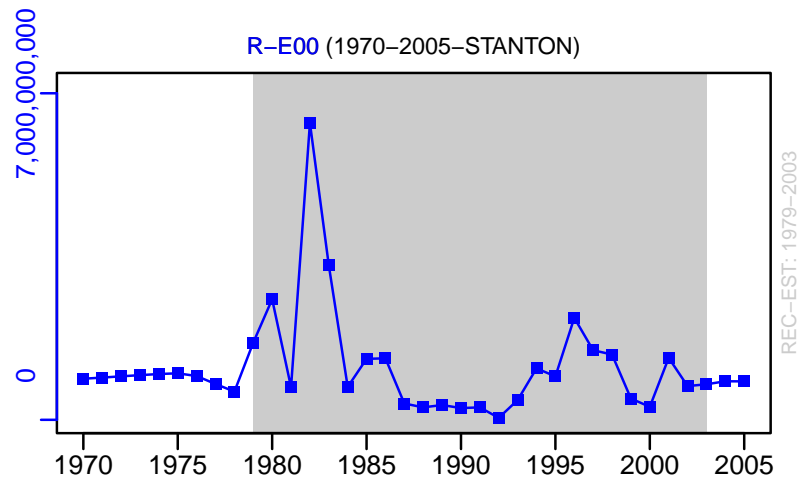
F*



ER-ratio (1970–2005–STANTON)

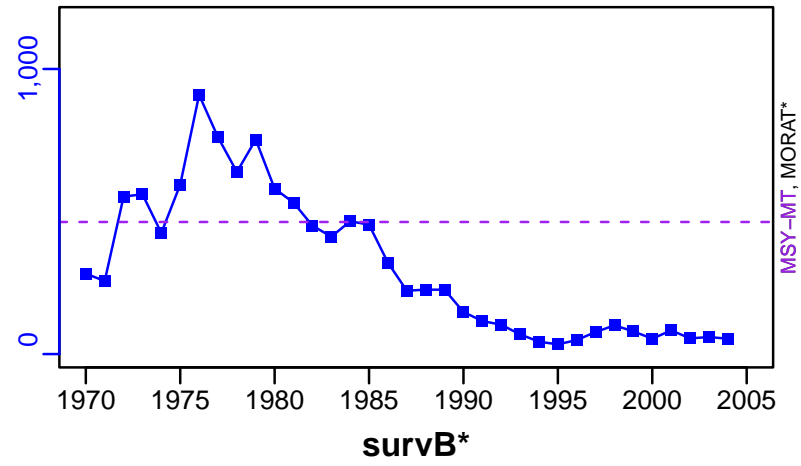


R-E00 (1970–2005–STANTON)



Starry flounder Southern Pacific Coast [STFLOUNSPCOAST]

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



TAC*, Cpair*, Cadv*



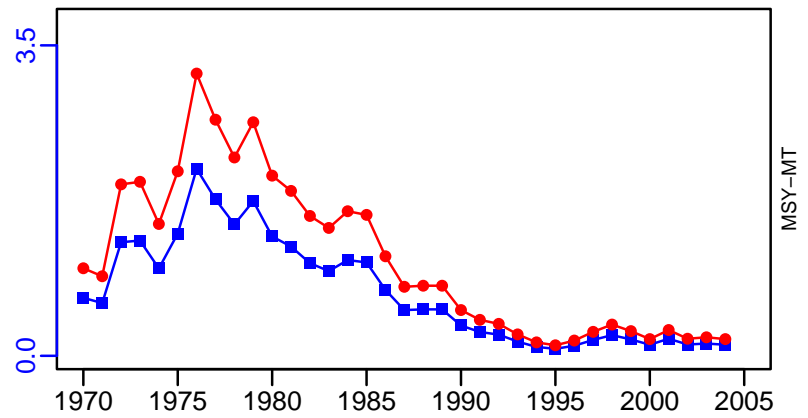
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970-2005-STANTON)



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

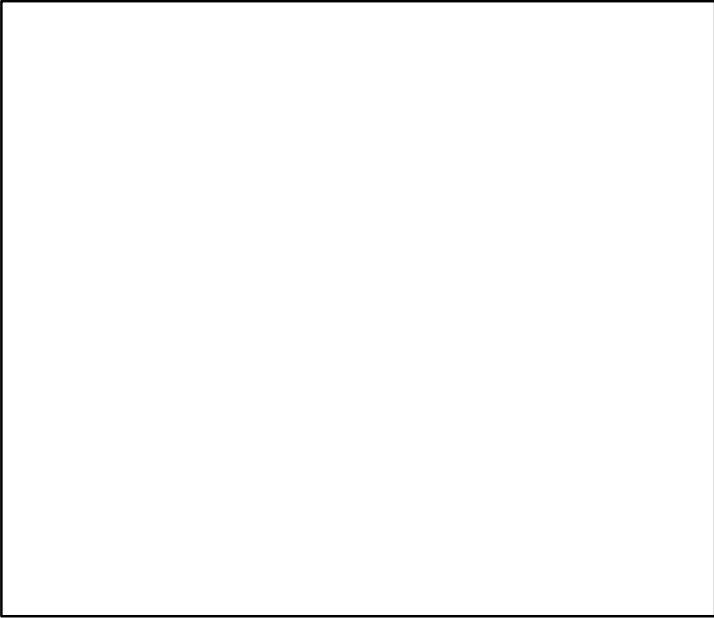
Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGBFAS-TUR2232-1970-2020-ICESIMP2021-2
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2017, 2019, 2020

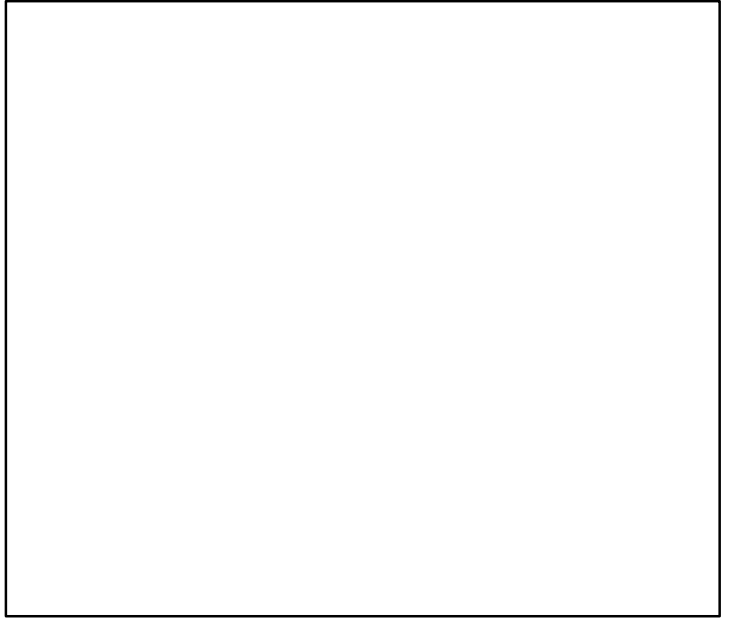
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	572		
TL	TL-MT	2020	197		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

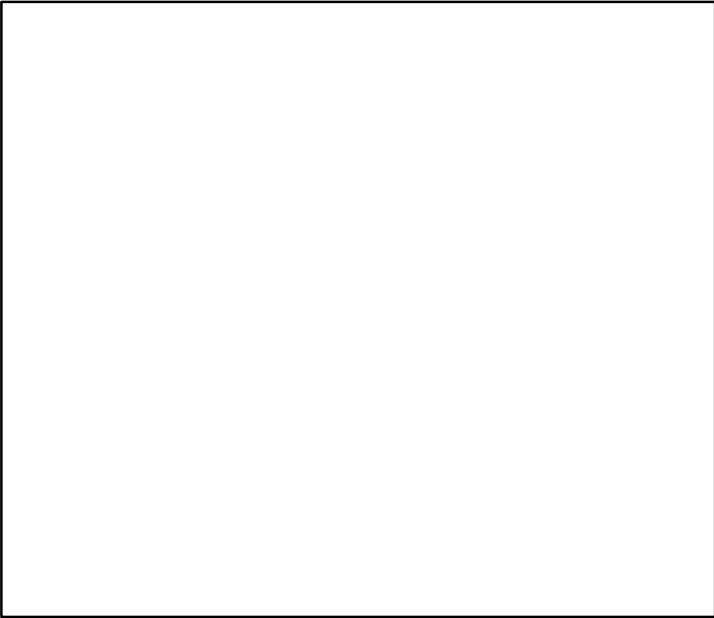
Kobe MSY*



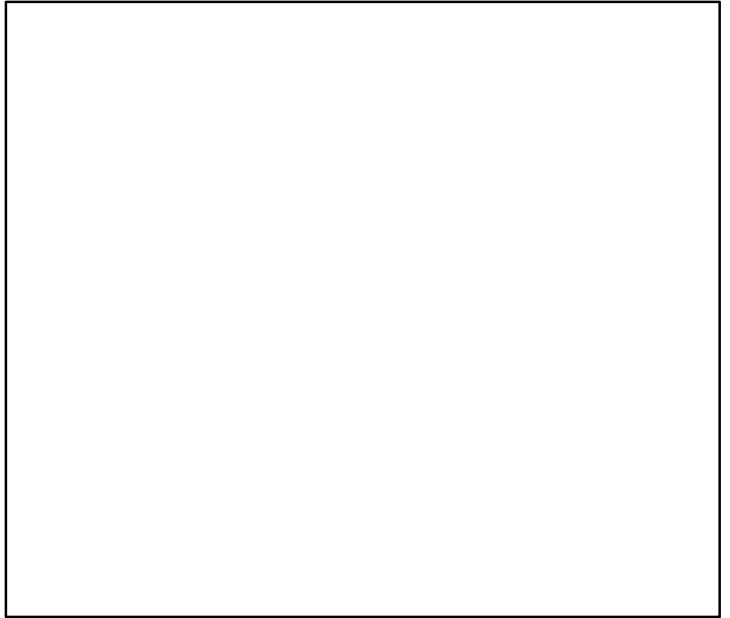
Kobe MGT*



Spawner Recruit*



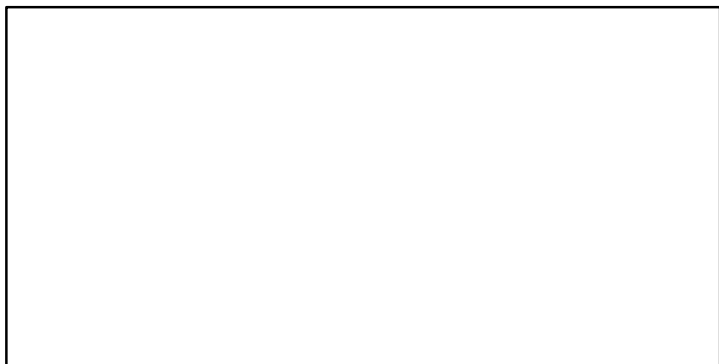
Production*



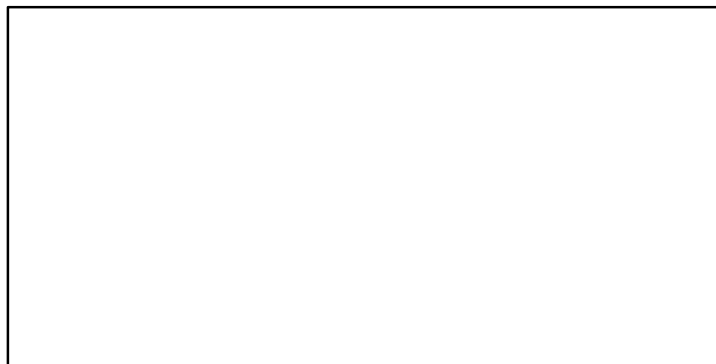
◆ Start Year ◆ End Year * No Data

Turbot Baltic Areas 22–32 [TUR2232]

TB*



SSB*



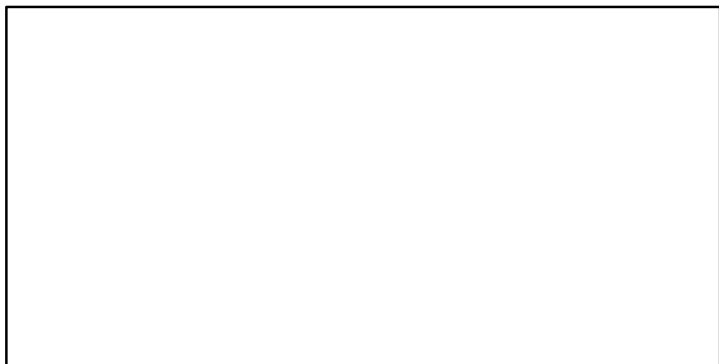
TN *



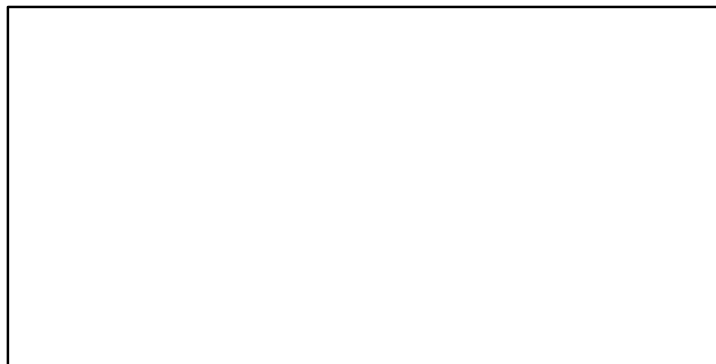
F*



ER*

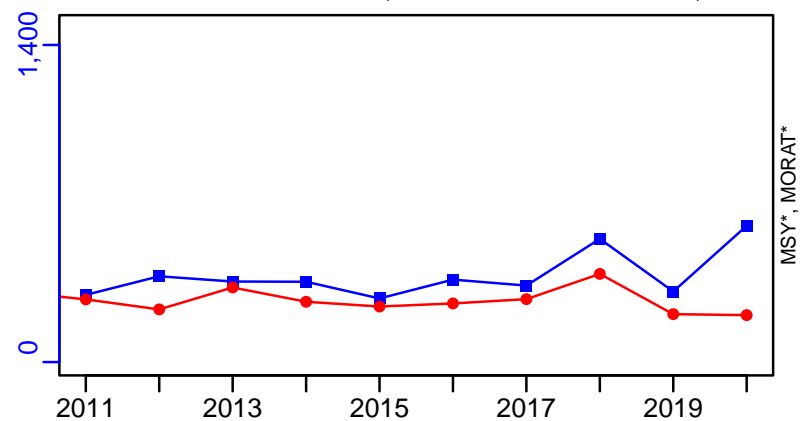


Recruits*



Turbot Baltic Areas 22–32 [TUR2232]

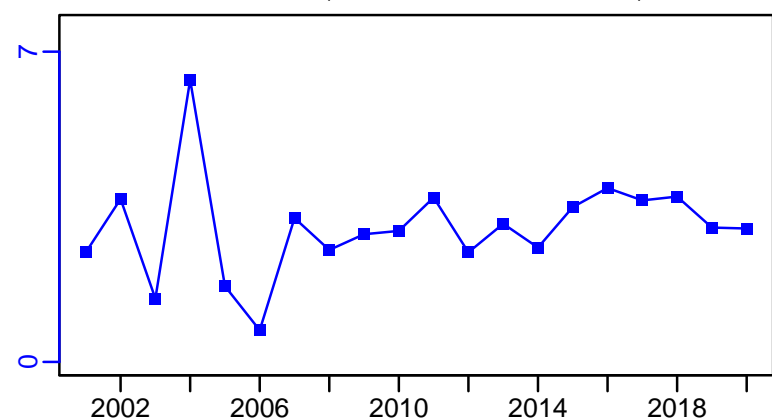
TC-MT, TL-MT, RecC* (1970–2020–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



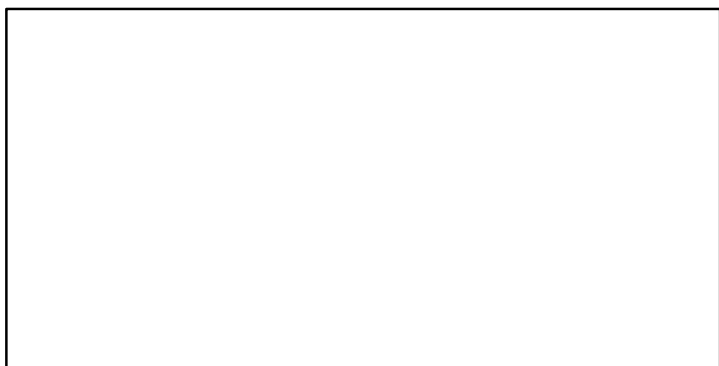
survB-index (1970–2020–ICESIMP2021–2)



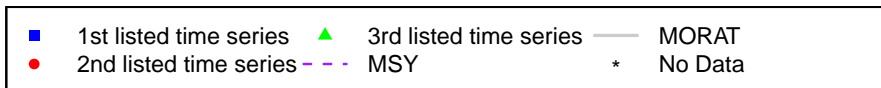
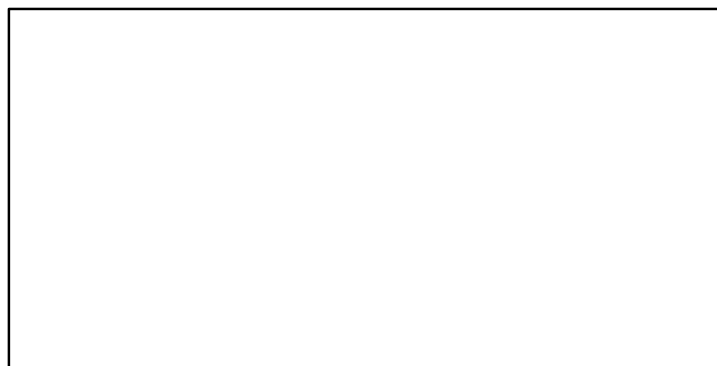
CPUE*



EFFORT*



CdivMSY*



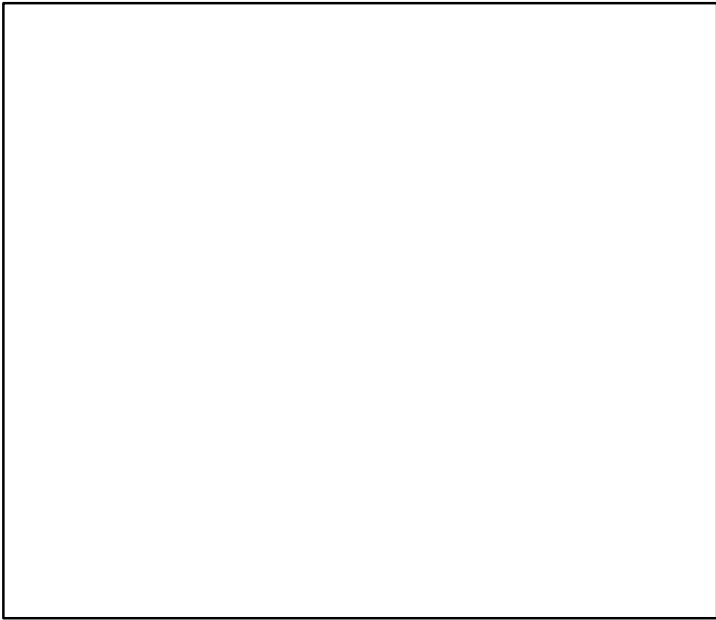
Turbot Black Sea [TURBLKGSA29]

Metadata	
Scientific Name	Psetta maxima
Current Assess ID	STECF-TURBLKGSA29-1950-2016-MEDIMP2021-2
Area	Black Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2014, 2016, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	0.26
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.19
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	3535
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	1993	-	-
TN	-	-	-	-	-
R	R-E00	2016	901,897	-	-
F	F-1/yr	2016	0.974	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	3.744		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.744		
ER/ERMgt	-	-	-		

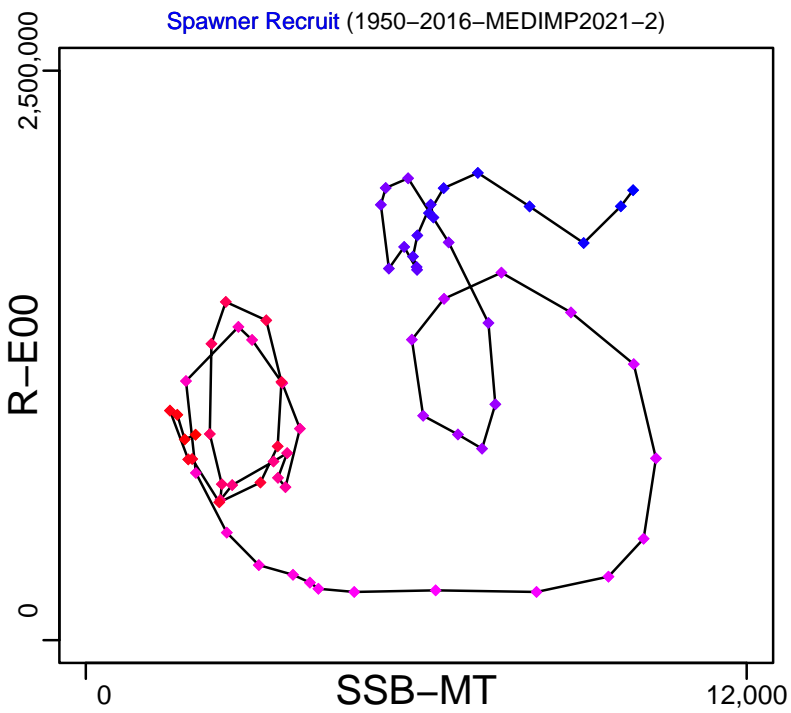
Kobe MSY*



Kobe MGT*



Spawner Recruit (1950–2016–MEDIMP2021–2)



Production*



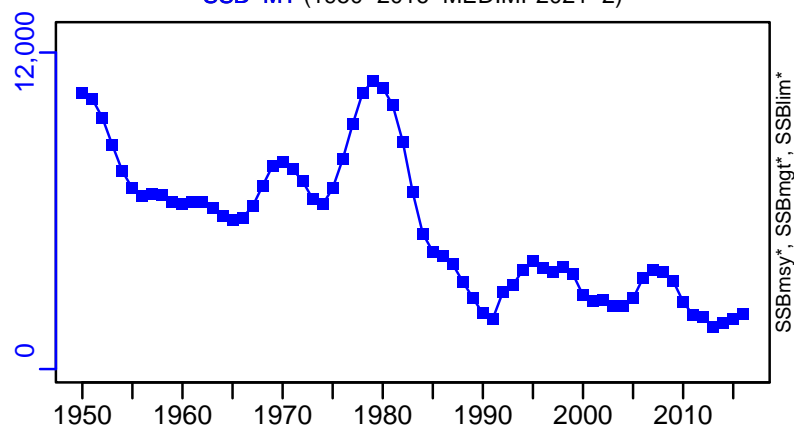
◆ Start Year ◆ End Year * No Data

Turbot Black Sea [TURBLKGSA29]

TB*



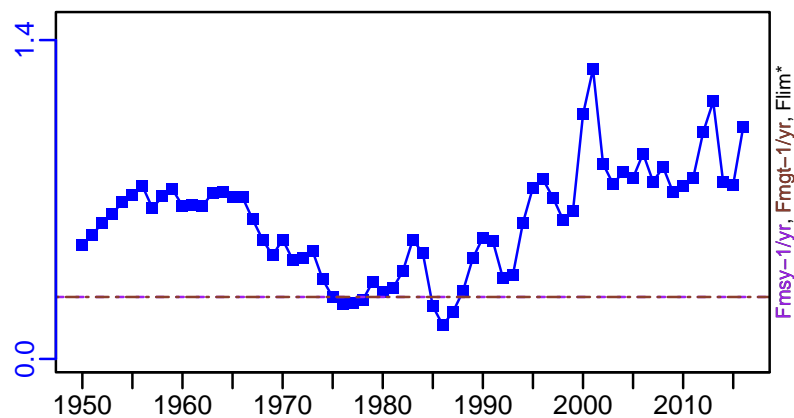
SSB-MT (1950-2016-MEDIMP2021-2)



TN *



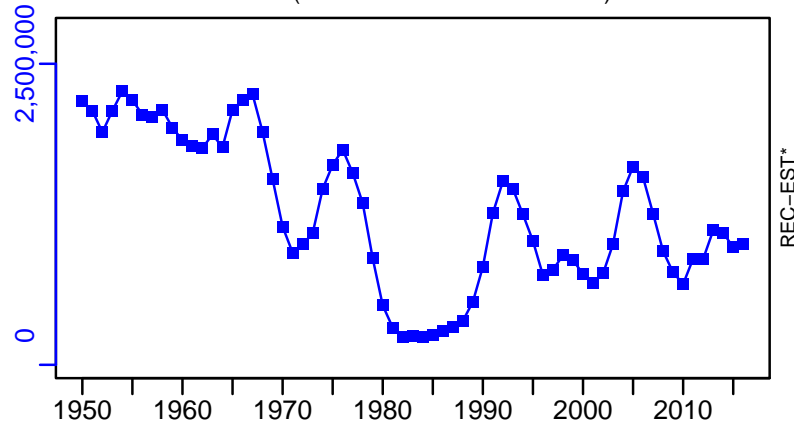
F-1/yr (1950-2016-MEDIMP2021-2)



ER*

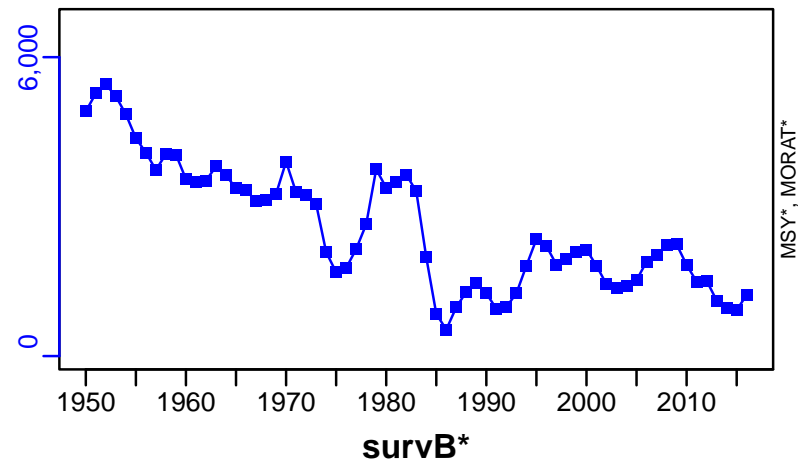


R-E00 (1950-2016-MEDIMP2021-2)



Turbot Black Sea [TURBLKGSA29]

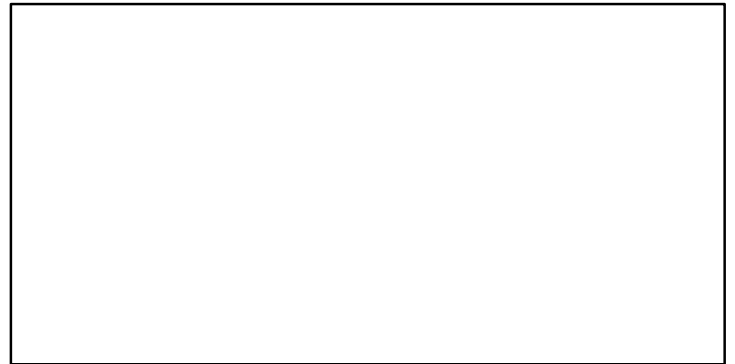
TC-MT, TL*, RecC* (1950-2016-MEDIMP2021-2)



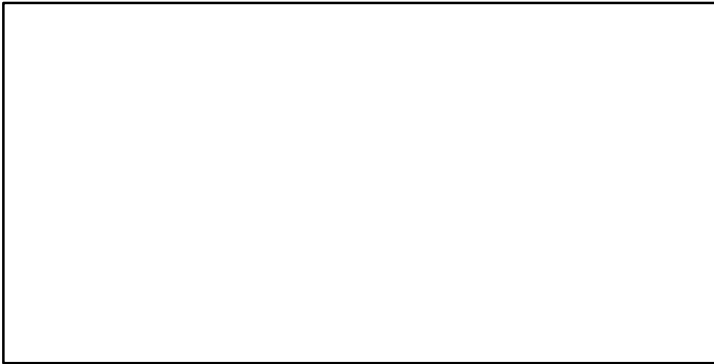
TAC*, Cpair*, Cadv*



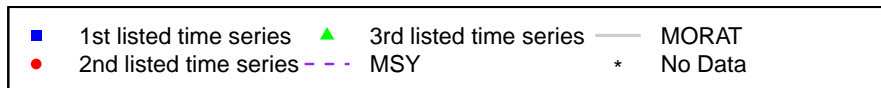
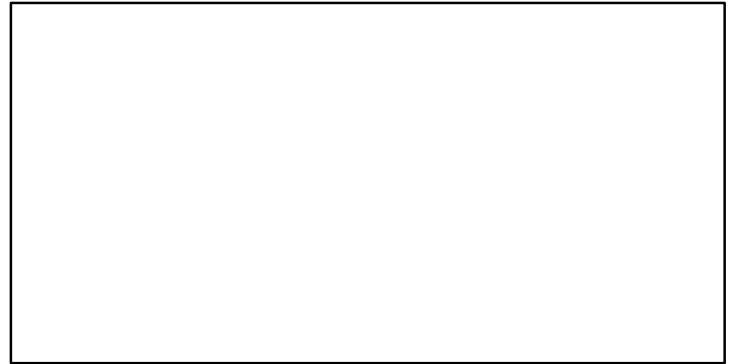
CPUE*



EFFORT*



CdivMSY*



Turbot Kattegat and Skagerrak [TURIIIa]

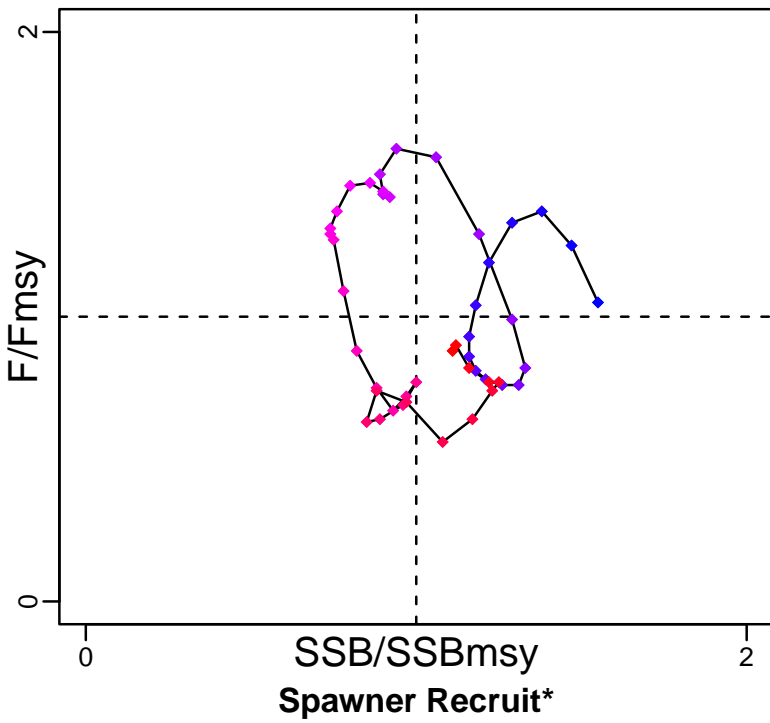
Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIIIa-1975-2021-ICESIMP2021-2
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2019, 2019, 2016, 2015, 2021

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

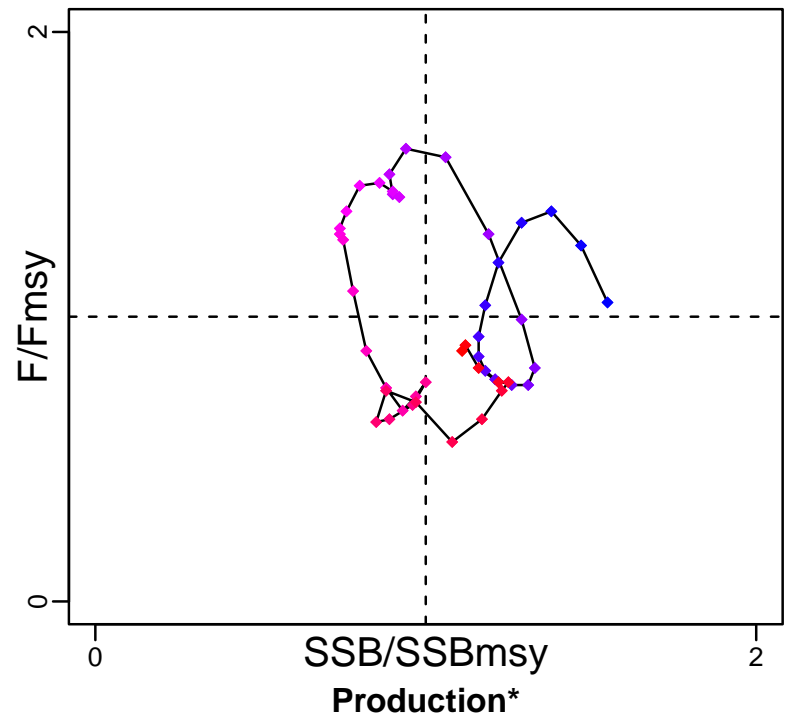
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	0.652	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	215		
TL	TL-MT	2021	202		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.11		
F/Fmsy	FdivFmsy-dimensionless	2021	0.88		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Turbot Kattegat and Skagerrak [TURIIIa]

Kobe MSYpref (1975–2021–ICESIMP2021–2)



Kobe MGTpref (1975–2021–ICESIMP2021–2)



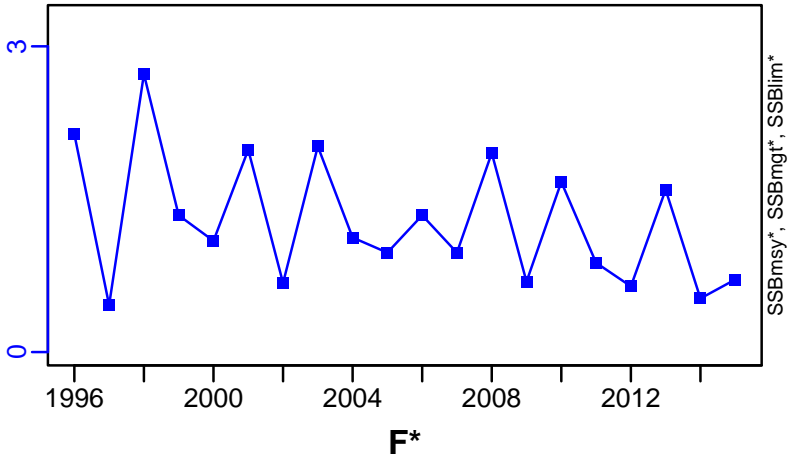
◆ Start Year ◆ End Year * No Data

Turbot Kattegat and Skagerrak [TURIIIa]

TB*



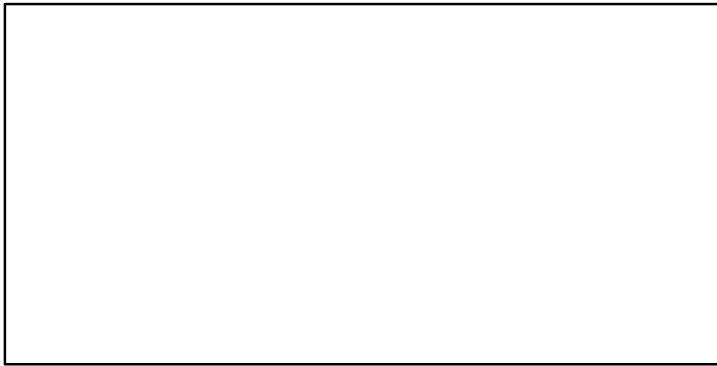
SSB-index (1964–2015–ICESIMP2018)



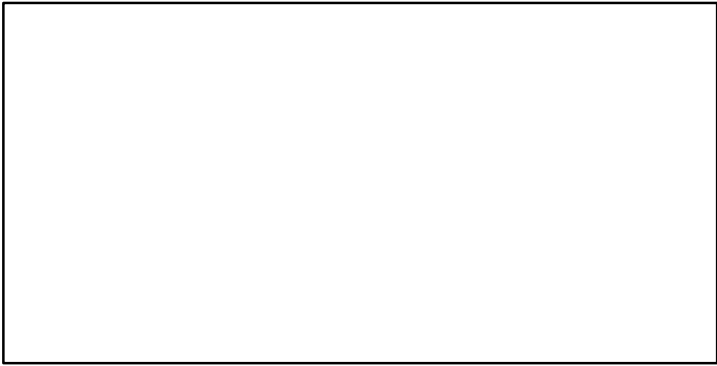
TN *



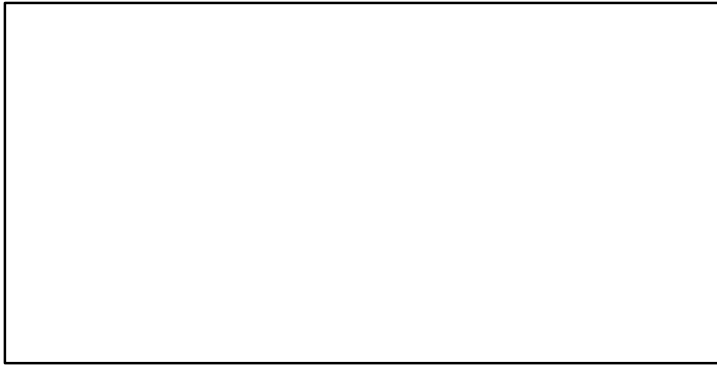
F*



ER*

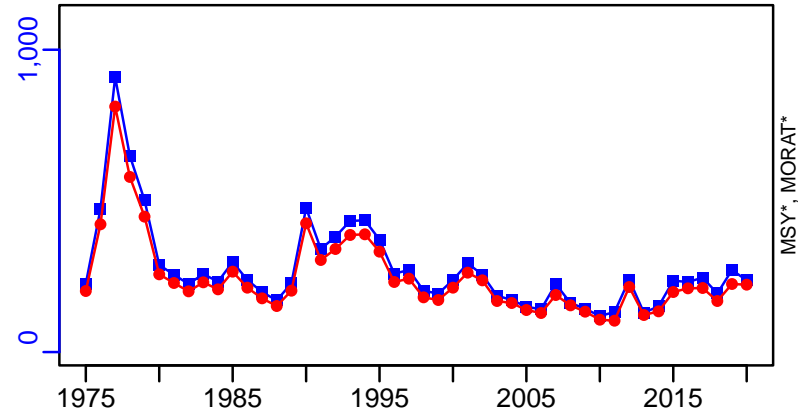


Recruits*



Turbot Kattegat and Skagerrak [TURIIIa]

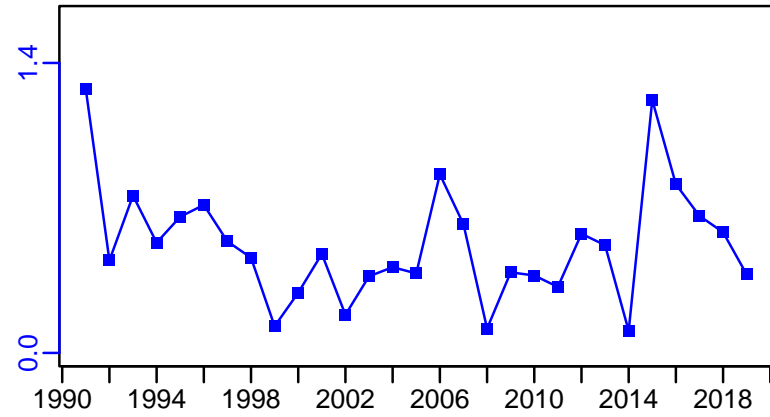
TC-MT, TL-MT, RecC* (1975–2021–ICESIMP2021–2)



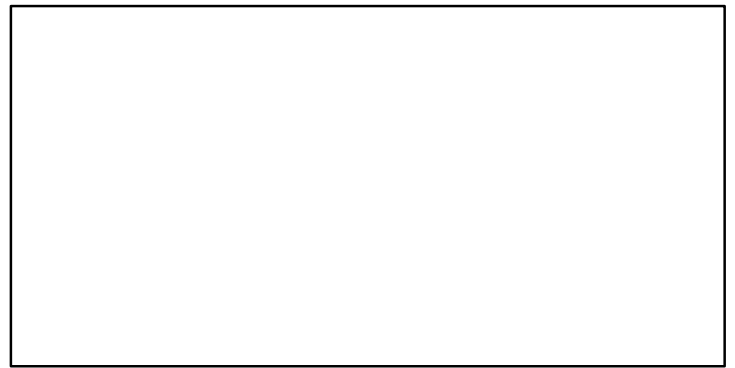
TAC*, Cpair*, Cadv*



survB-index (1950–2019–ICESIMP2021)



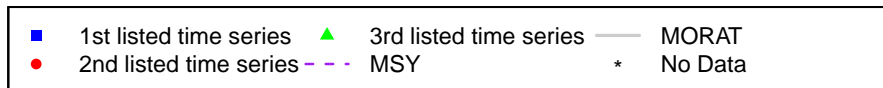
CPUE*



EFFORT*



CdivMSY*



Turbot North Sea [TURIV]

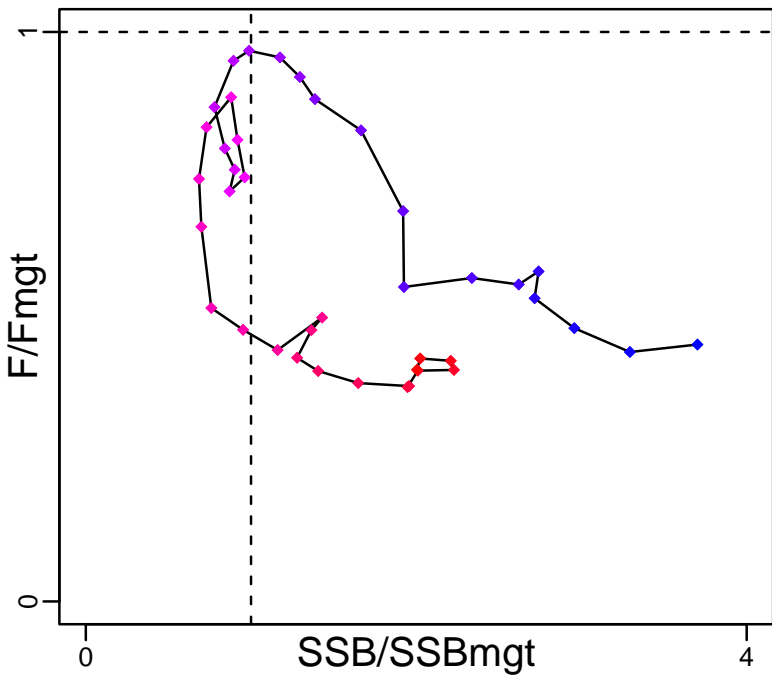
Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIV-1981-2021-ICESIMP2021-2
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2013, 2014, 2015, 2016, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.36
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	4160
Fmgt	Fmgt-1/yr	2021	0.86
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2970
Flim	Flim-1/yr	2020	0.61
ERlim	-	-	-

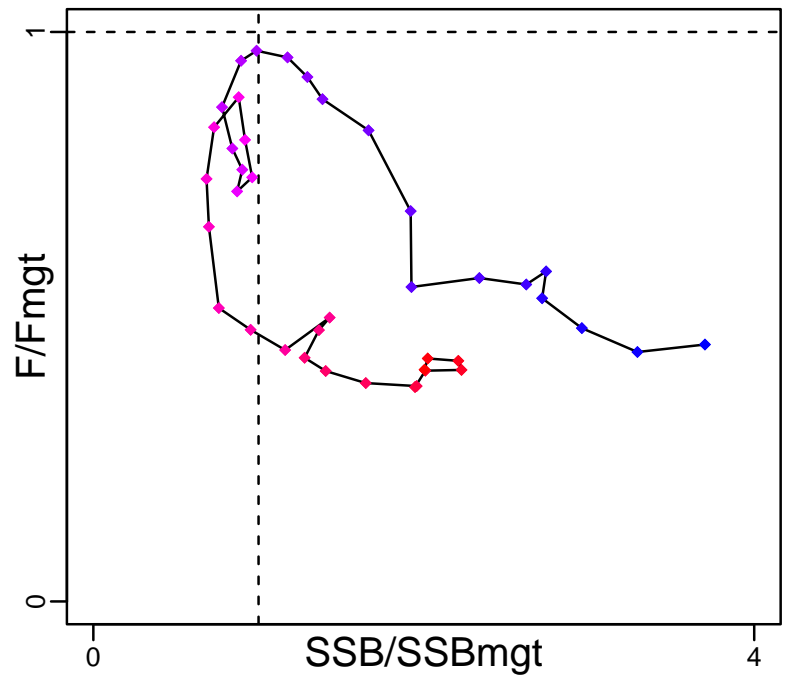
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	13,630	-	-
SSB	SSB-MT	2021	8880	-	-
TN	-	-	-	-	-
R	R-E00	2021	4,570,000	-	1
F	F-1/yr	2021	0.35	-	-
ER	ER-calc-ratio	2019	0.266	-	-
TC	TC-MT	2021	3300		
TL	TL-MT	2021	3100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.02		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.135		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.407		
ER/ERmgt	-	-	-		

Turbot North Sea [TURIV]

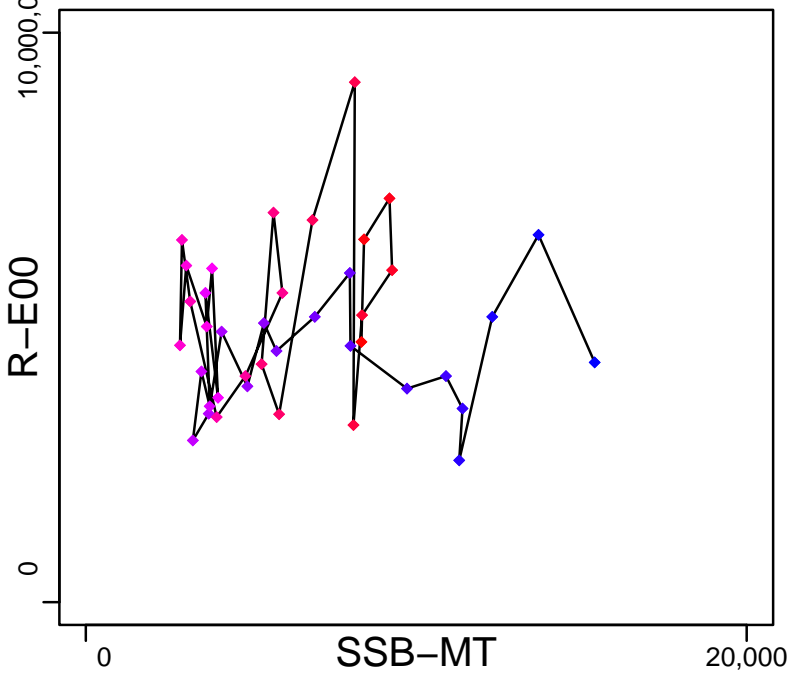
Kobe MSYpref (1981–2021–ICESIMP2021–2)



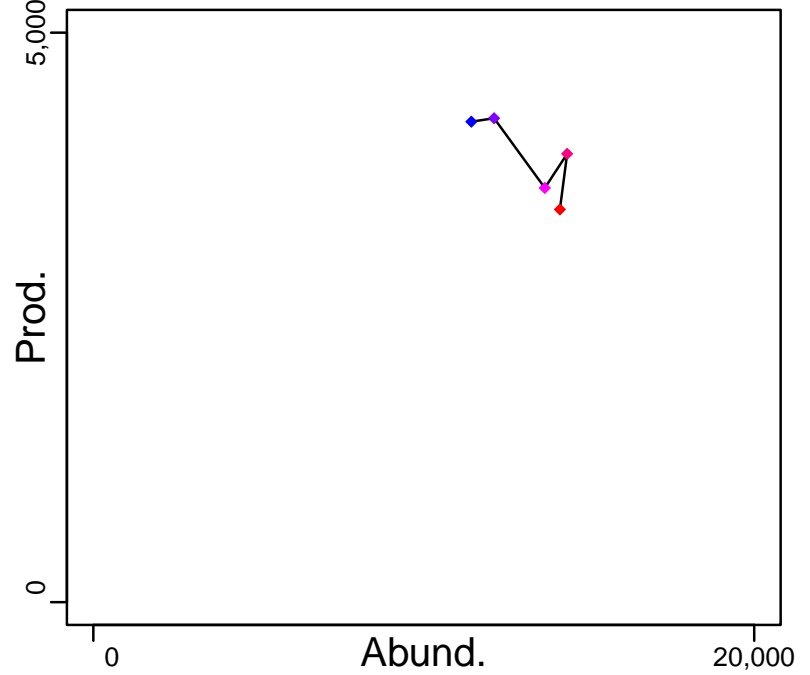
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2021–ICESIMP2021–2)



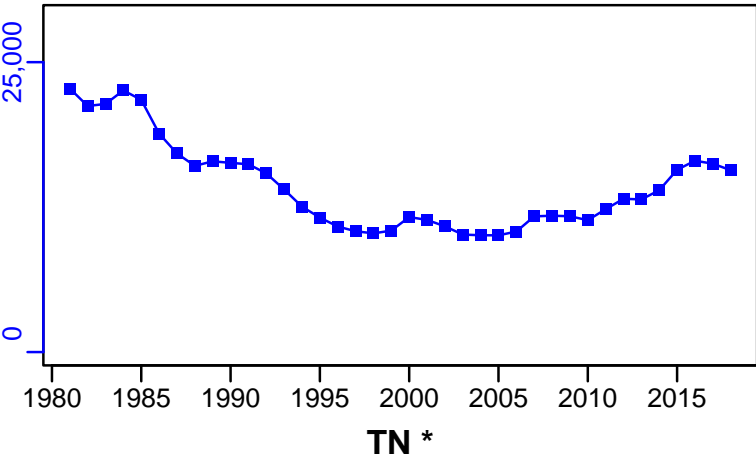
Production (1980–2019–ICESIMP2021)



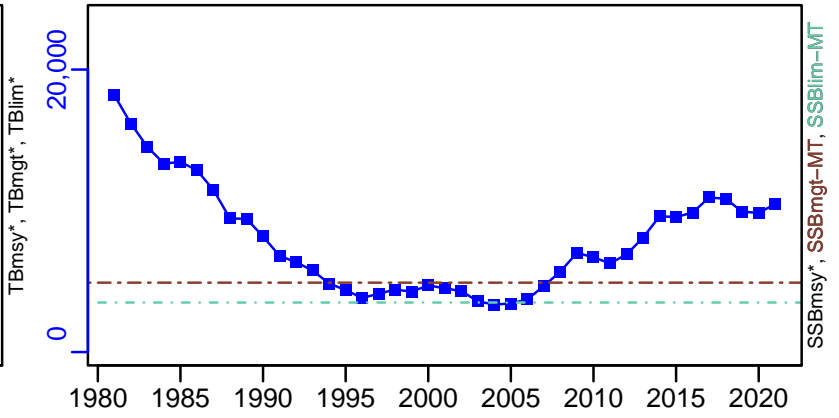
◆ Start Year ◆ End Year * No Data

Turbot North Sea [TURIV]

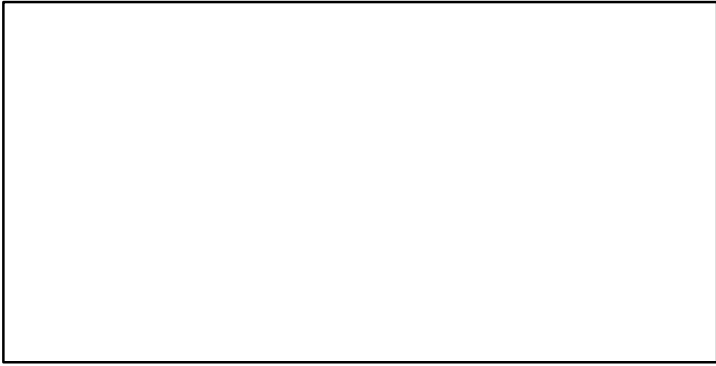
TB-MT (1980–2019–ICESIMP2021)



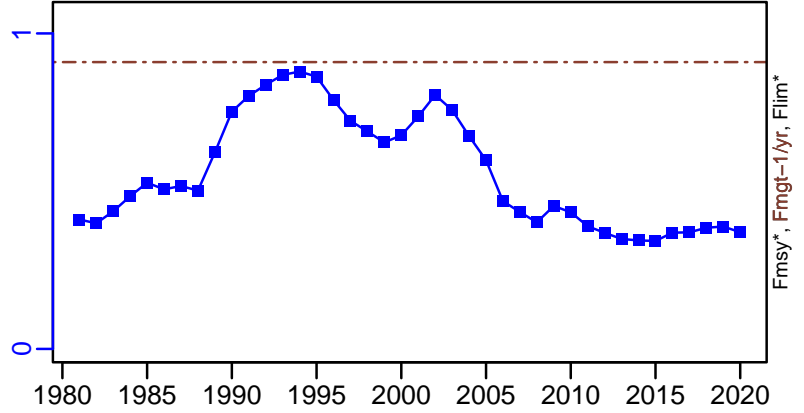
SSB-MT (1981–2021–ICESIMP2021–2)



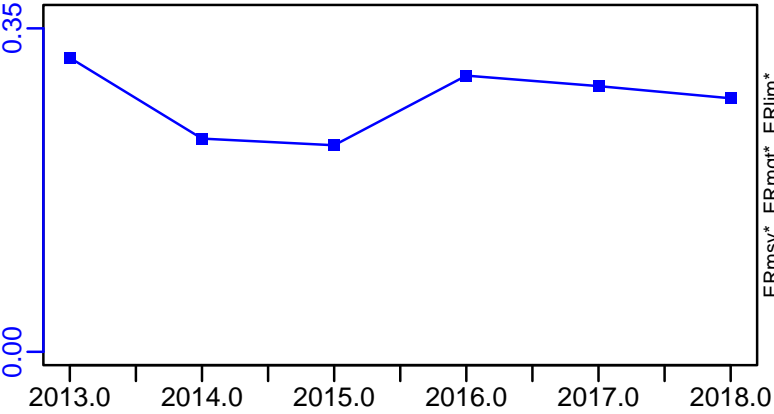
TN *



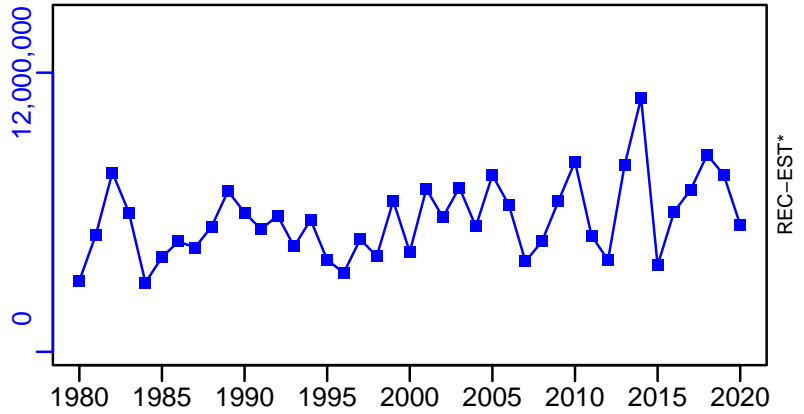
F-1/yr (1981–2021–ICESIMP2021–2)



ER-calc-ratio (1980–2019–ICESIMP2021)



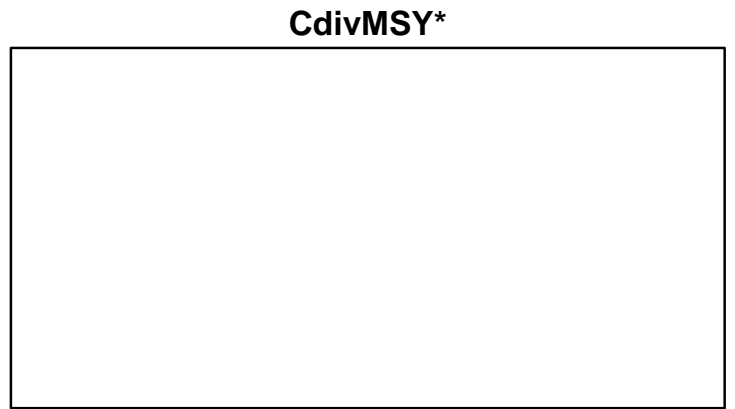
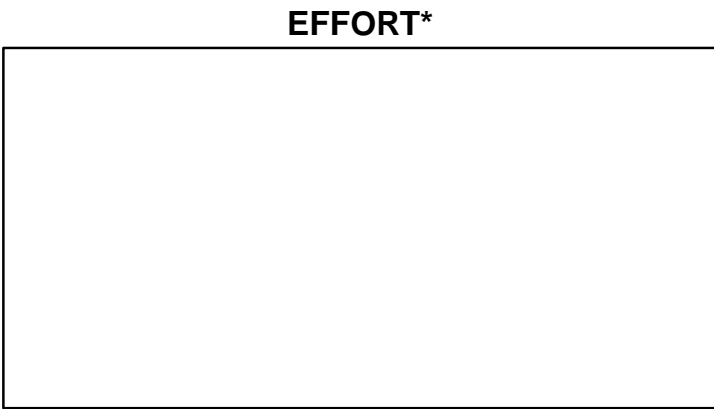
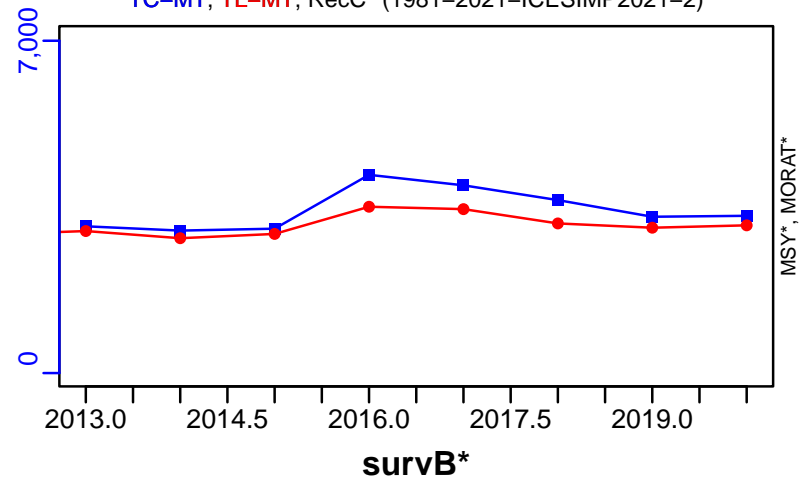
R-E00 (1981–2021–ICESIMP2021–2)



Turbot North Sea [TURIV]

TC-MT, TL-MT, RecC* (1981–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

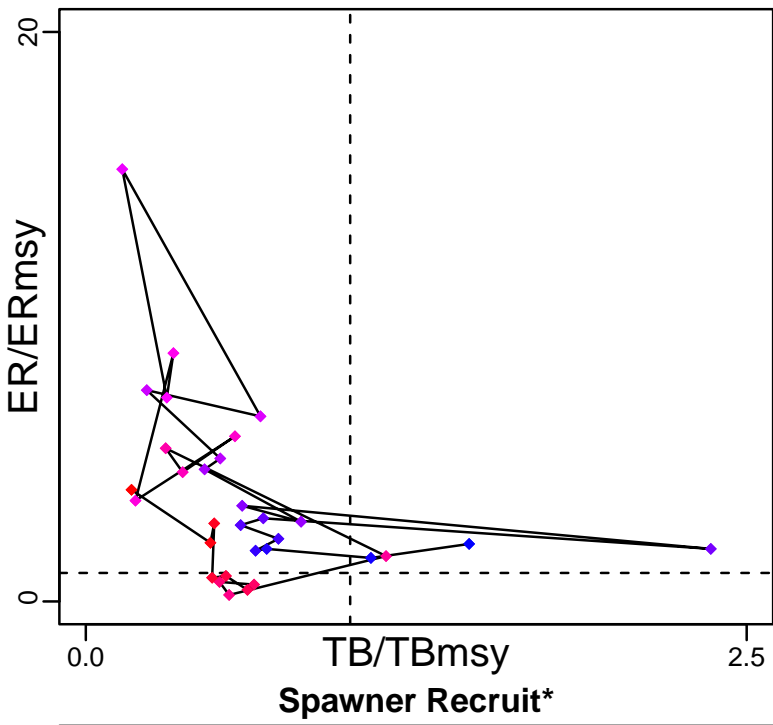
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWGOMGB-1975-2022-SISIMP2024
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016, 2018, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	1400
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	0.5
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	700
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

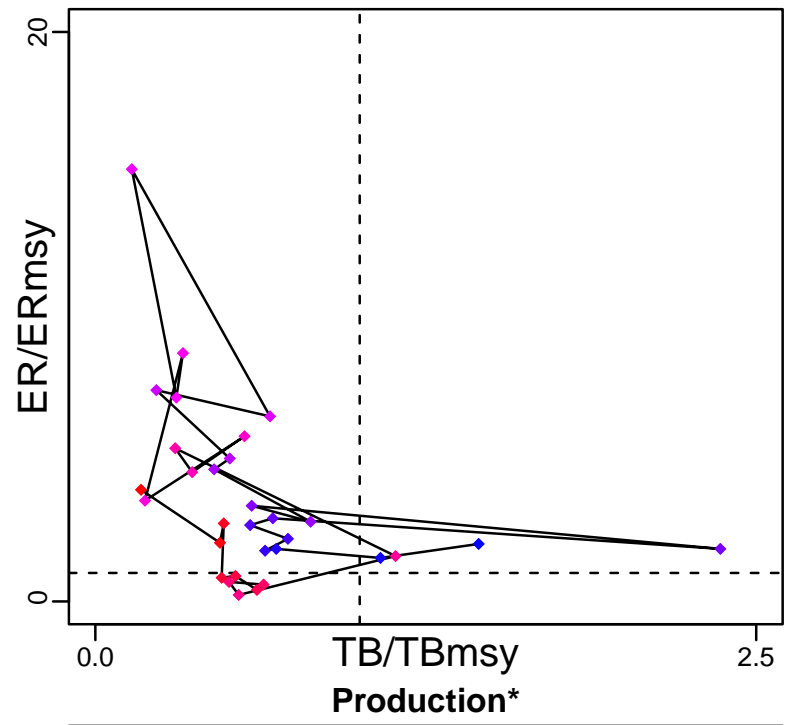
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.242	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.96	-	-
TC	TC-MT	2022	109		
TL	TL-MT	2007	119		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.173		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	3.92		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

Kobe MSYpref (1975–2007–HENDRICKSON)



Kobe MGTpref (1975–2007–HENDRICKSON)

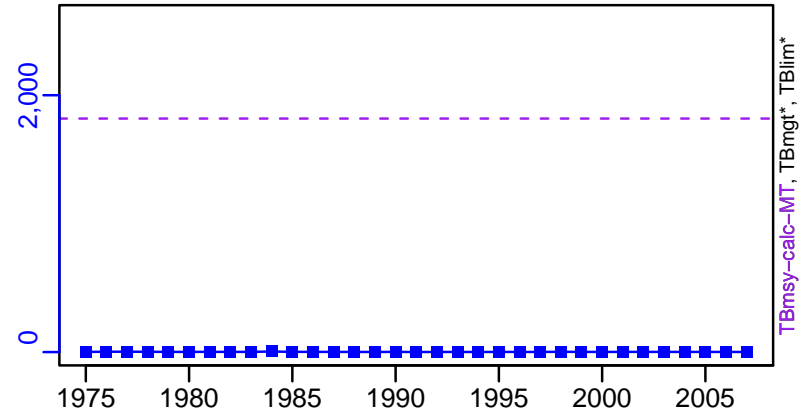


◆ Start Year ◆ End Year * No Data

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

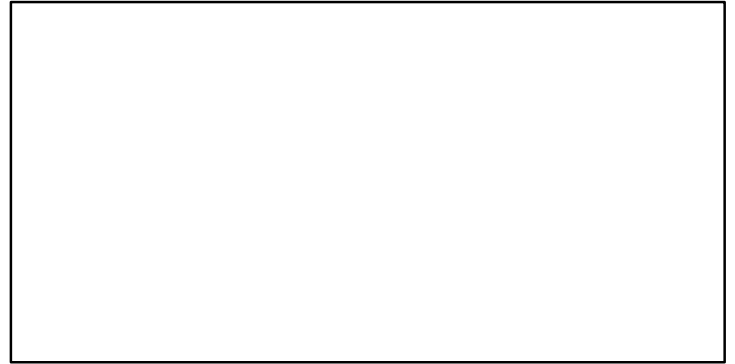
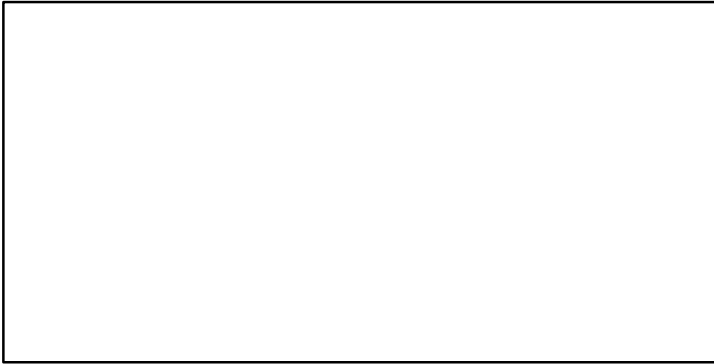
TB-relative (1975–2007–HENDRICKSON)

SSB*



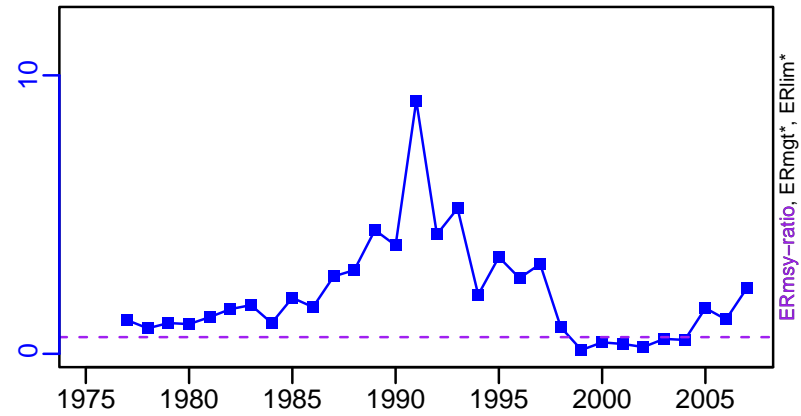
TN *

F*



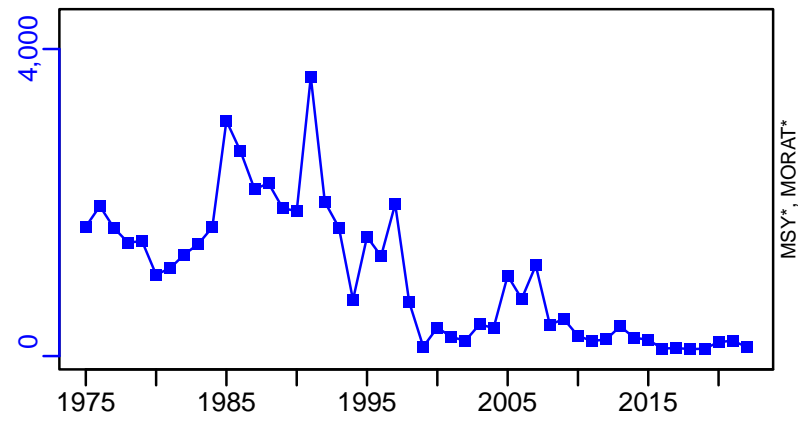
ER-ratio (1975–2007–HENDRICKSON)

Recruits*



Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

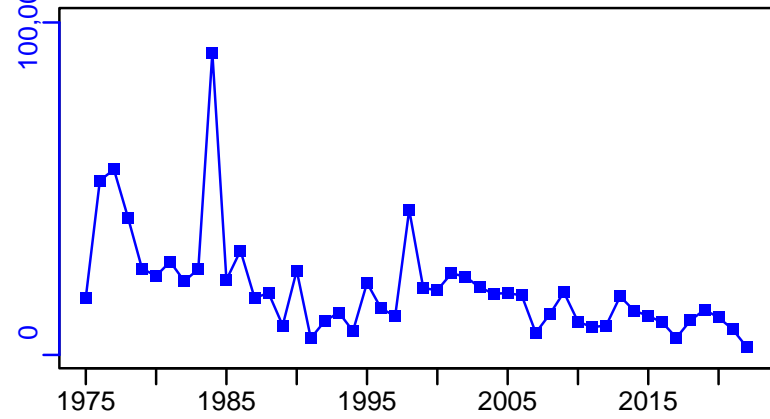
TC-MT, TL*, RecC* (1975-2022-SISIMP2024)



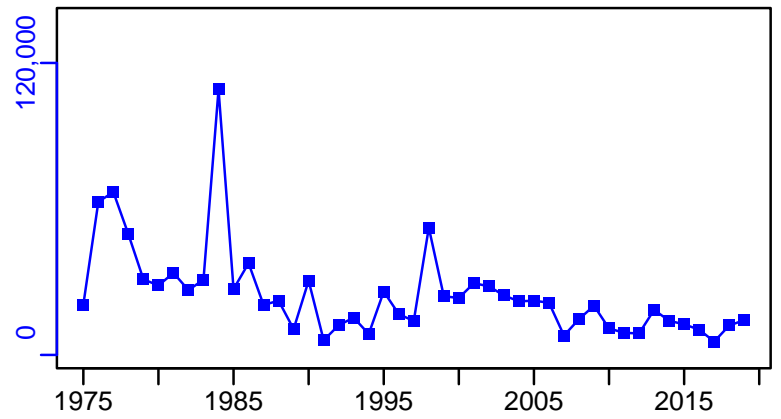
TAC*, Cpair*, Cadv*



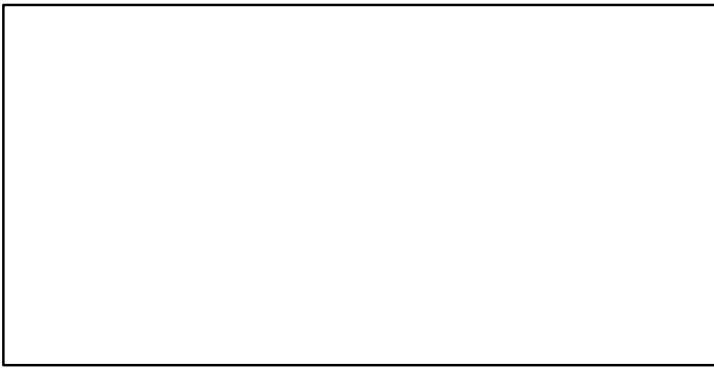
survB-MT (1975-2022-SISIMP2024)



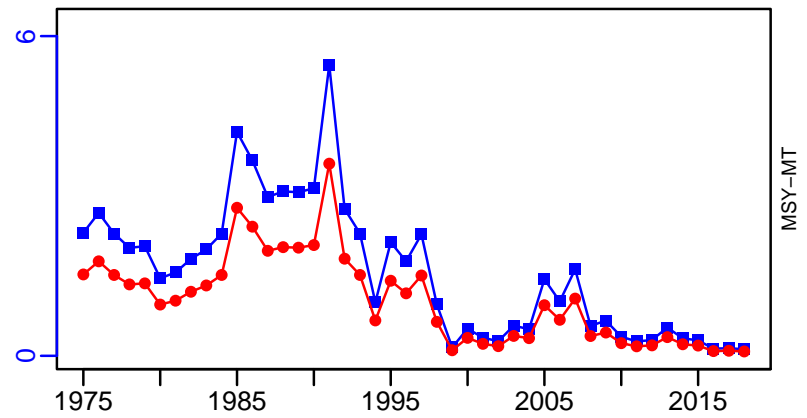
CPUE-index (1975-2019-SISIMP2021-2)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2018-SISIMP2021-2)



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

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

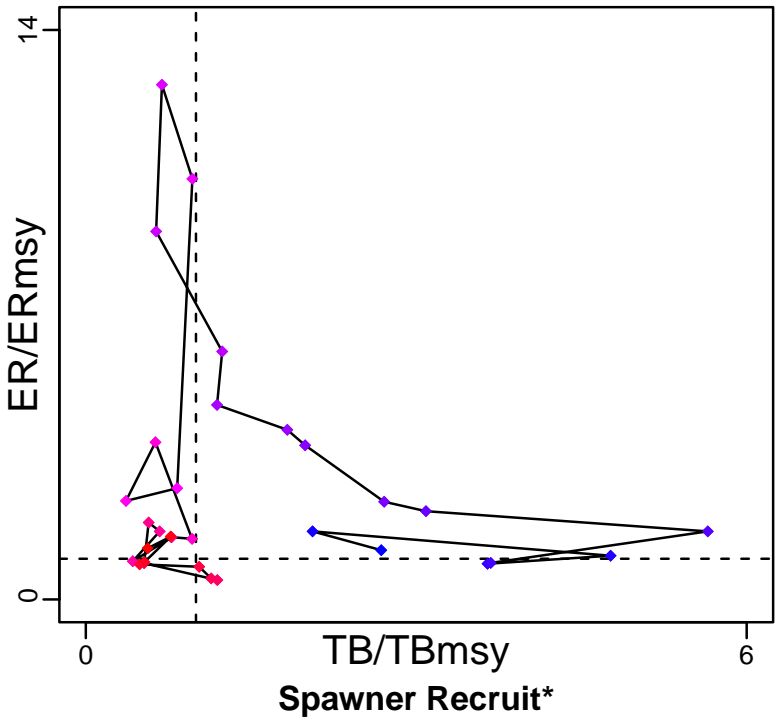
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWSNEMATL-1975-2022-SISIMP2024
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016, 2018, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2022	250
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2022	1.333
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	333
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

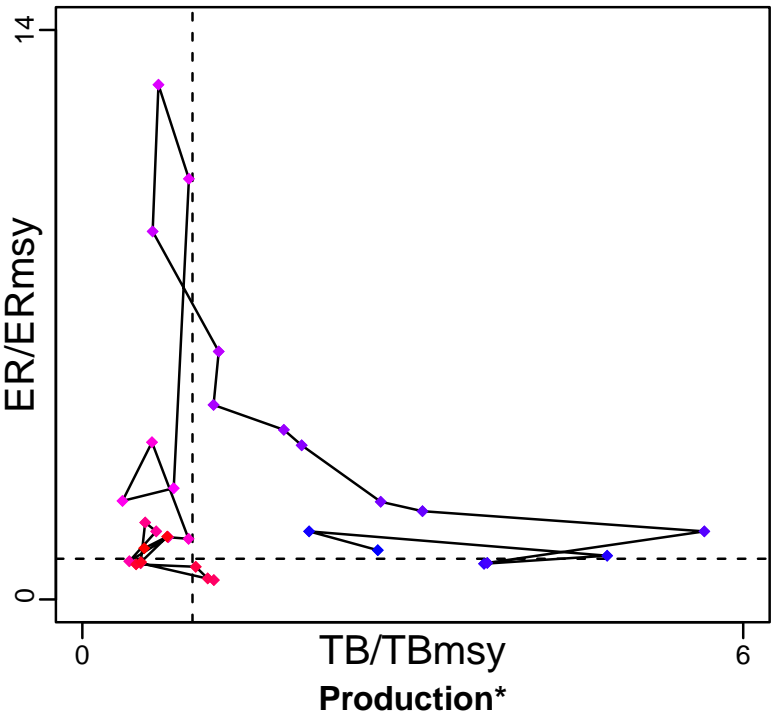
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.191	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.85	-	-
TC	TC-MT	2022	185		
TL	TL-MT	2007	81		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.562		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	1.259		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

Kobe MSYpref (1975–2007–HENDRICKSON)



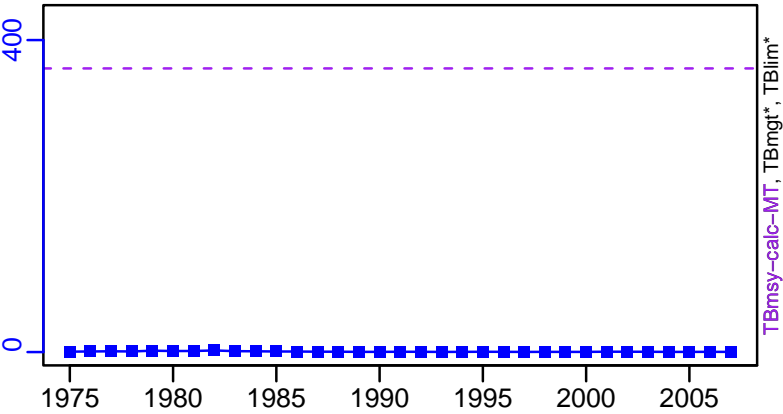
Kobe MGTpref (1975–2007–HENDRICKSON)



◆ Start Year ◆ End Year * No Data

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

TB-relative (1975–2007–HENDRICKSON)



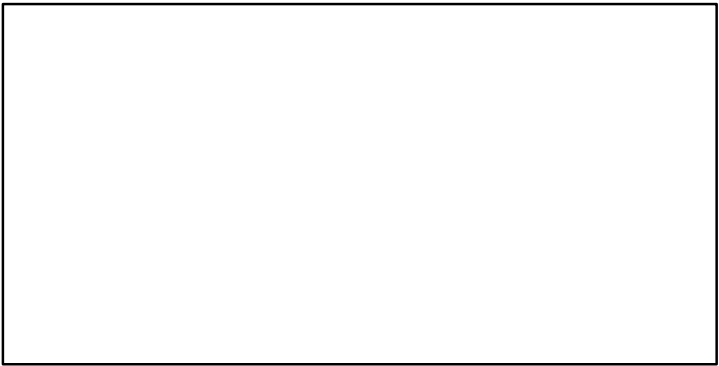
SSB*



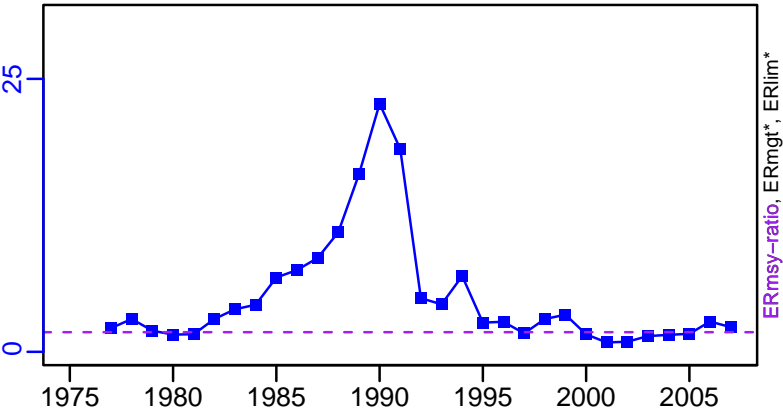
TN *



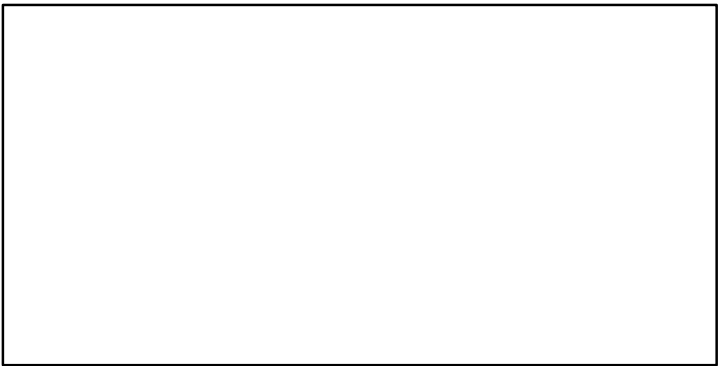
F*



ER-ratio (1975–2007–HENDRICKSON)



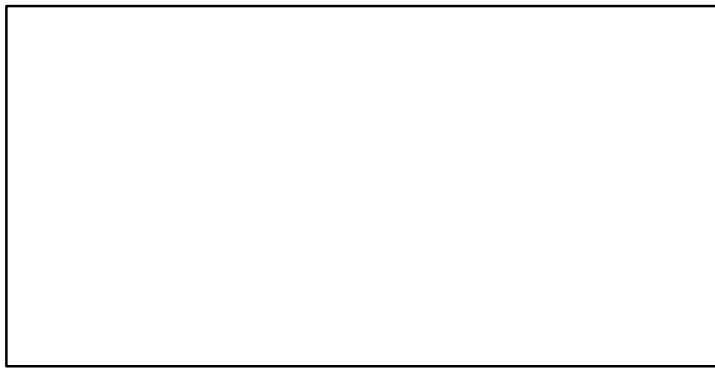
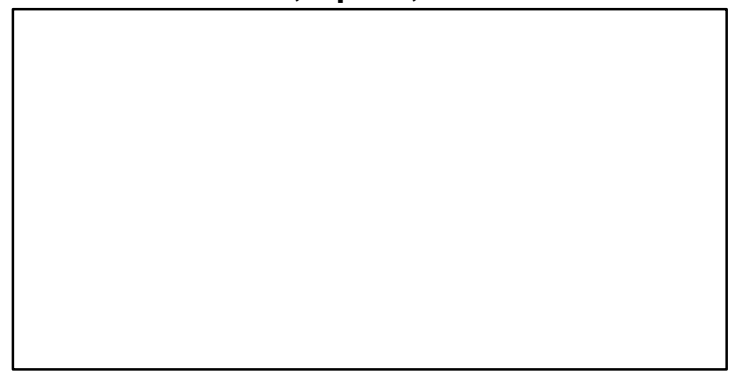
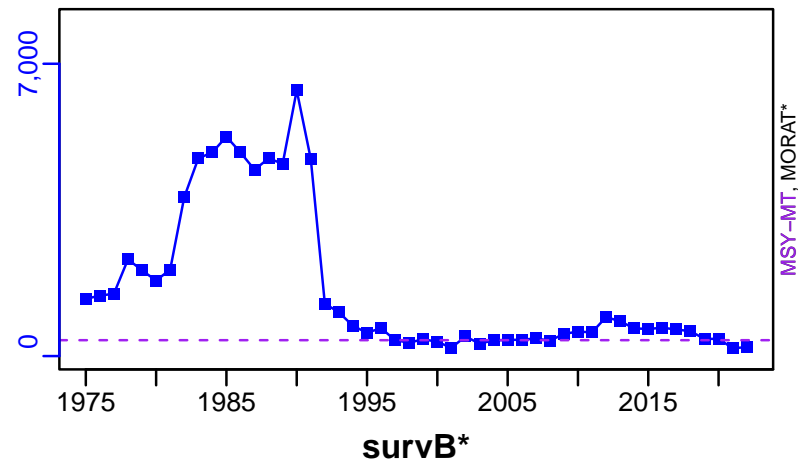
Recruits*



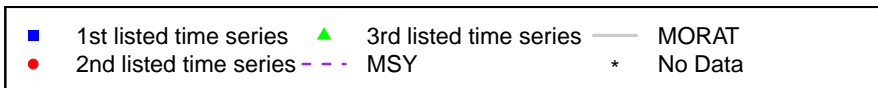
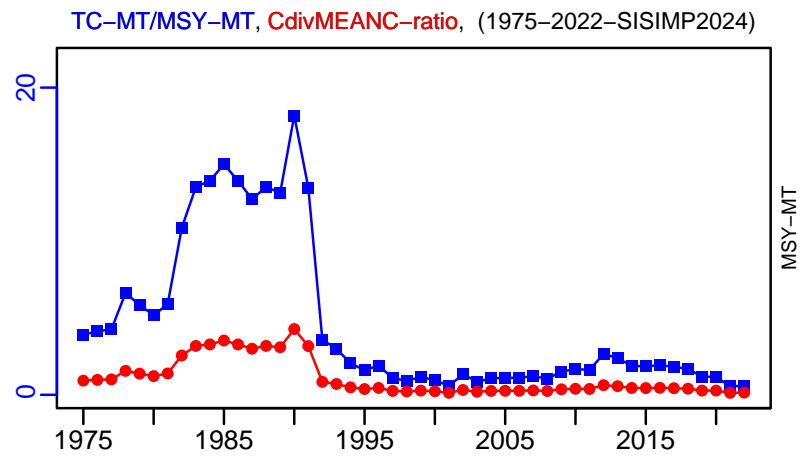
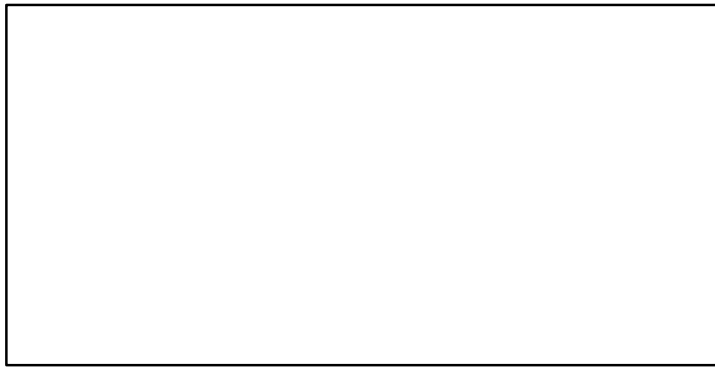
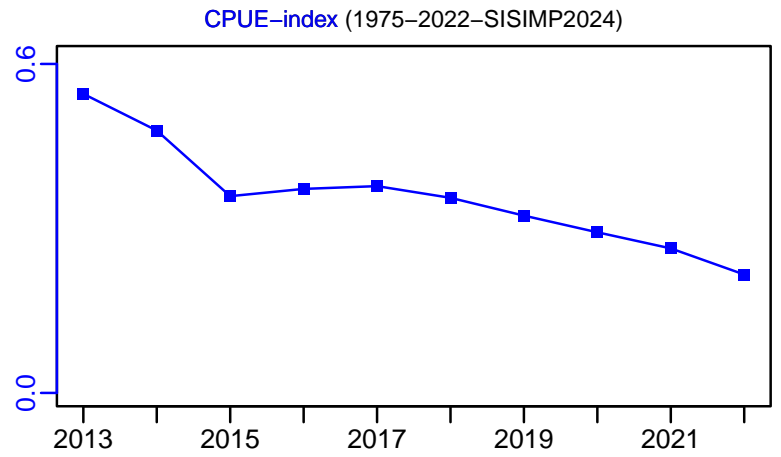
Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

TC-MT, TL*, RecC* (1975-2022-SISIMP2024)

TAC*, Cpair*, Cadv*



EFFORT*



Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	DFO-SG-WINFLOUN4T-1960-2016-ASHBROOK
Area	Southern Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	2011, 2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	369,600
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2016	1.02
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	147,800
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	72,254	-	-
TN	TN-E00	2012	2.52×10^9	Both	3+
R	R-E00	2012	1,540,000	Both	-
F	F-1/yr	2016	0	-	5+
ER	ER-calc-ratio	2012	0.583	-	-
TC	TC-E00	2012	1.47×10^9		
TL	TL-MT	2016	196		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.195		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

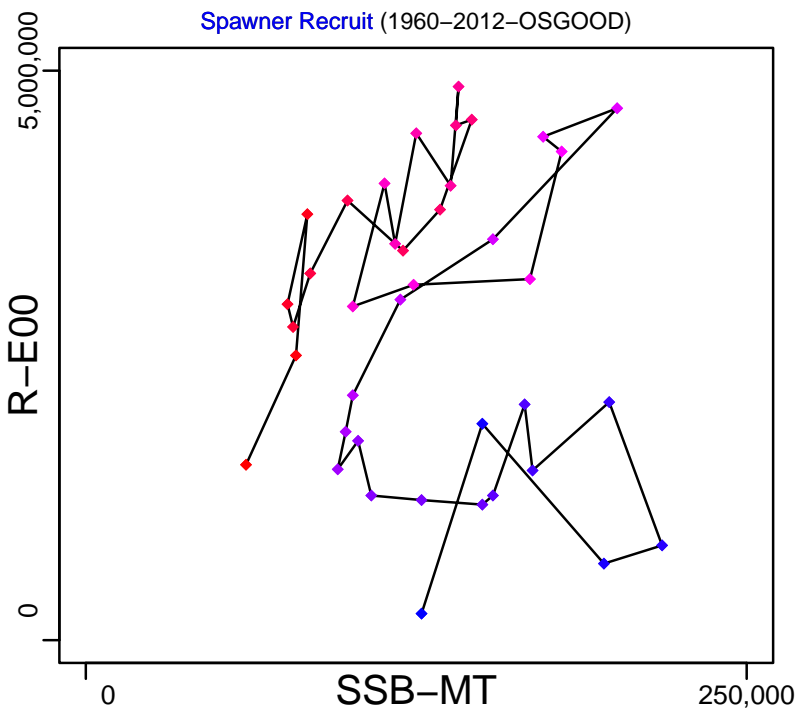
Kobe MSY*



Kobe MGT*



Spawner Recruit (1960–2012–OSGOOD)



Production*



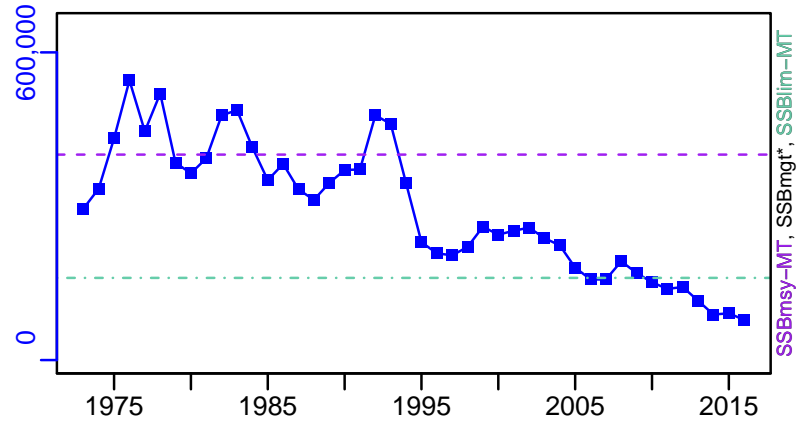
◆ Start Year ◆ End Year * No Data

Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

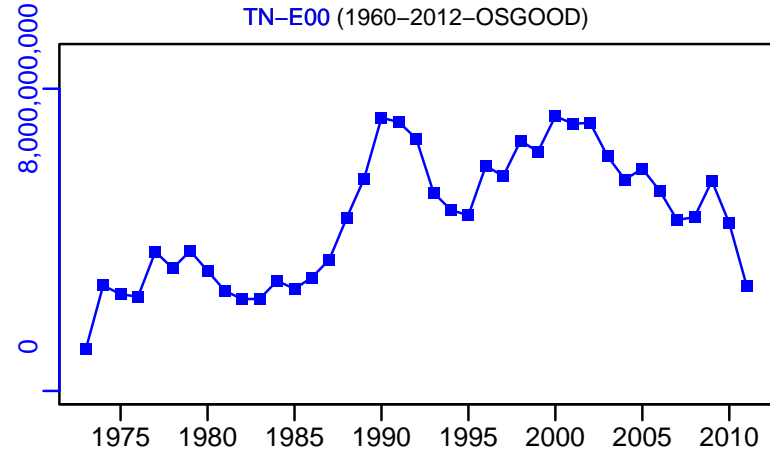
TB*



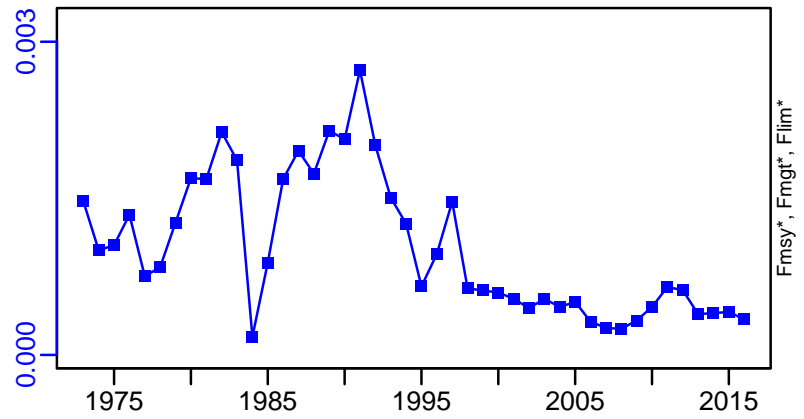
SSB-MT (1960–2016–ASHBROOK)



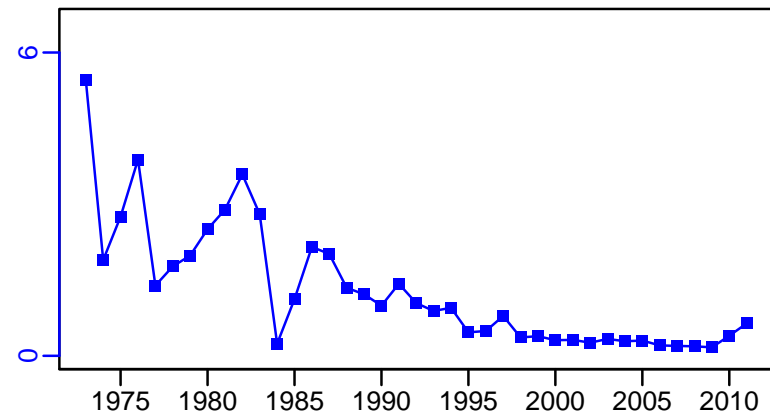
TN-E00 (1960–2012–OSGOOD)



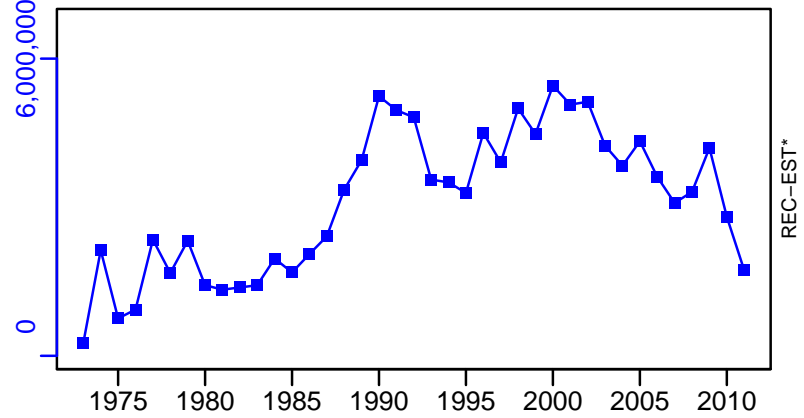
F-1/yr (1960–2016–ASHBROOK)



ER-calc-ratio (1960–2012–OSGOOD)



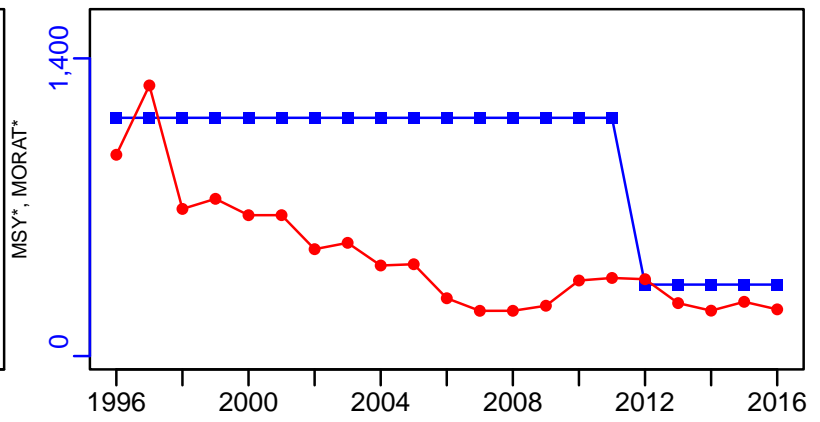
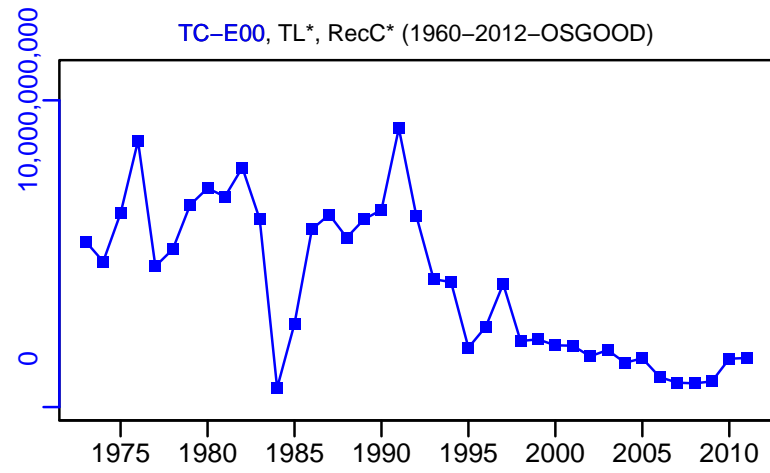
R-E00 (1960–2012–OSGOOD)



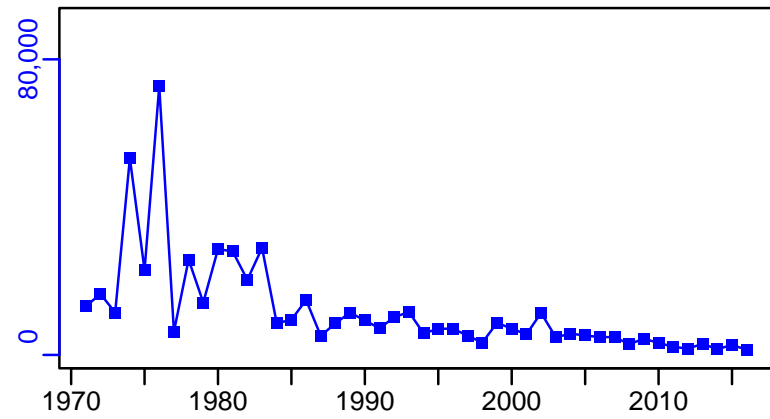
Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

TC-E00, TL*, RecC* (1960-2012-OSGOOD)

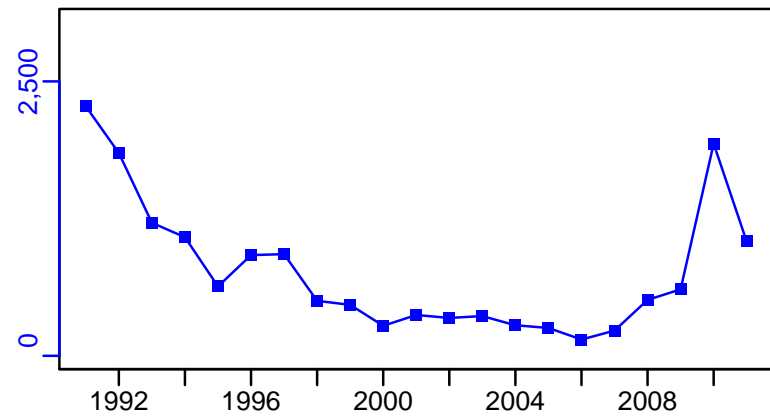
TAC-MT, Cpair-MT, Cadv* (1960-2016-ASHBROOK)



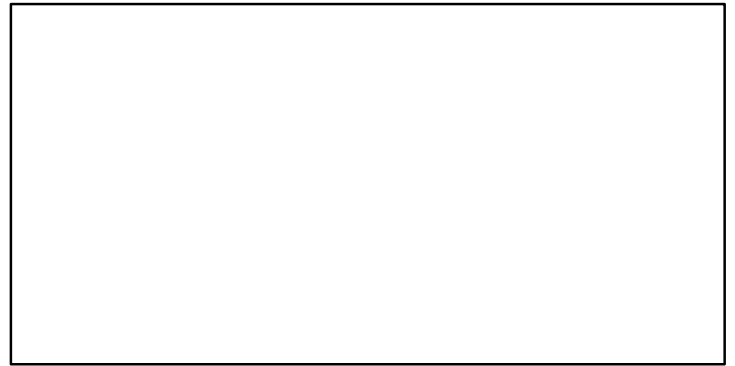
survB-MT (1960-2016-ASHBROOK)



EFFORT-day (1960-2012-OSGOOD)



CPUE*



CdivMSY*



Winter flounder Georges Bank [WINFLOUN5Z]

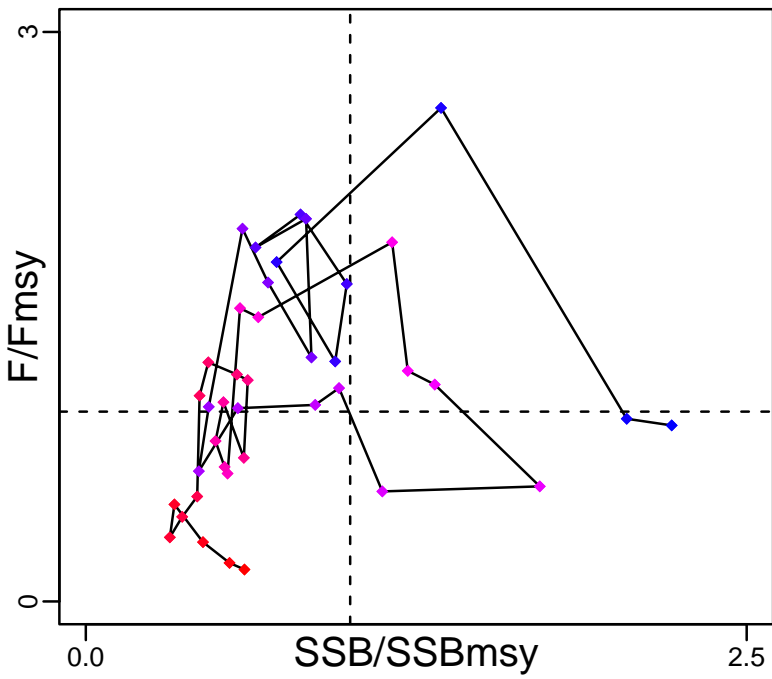
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUN5Z-1981-2021-SISIMP2024
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2019, 2016, 2021, 2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	7503
Fmsy	Fmsy-1/yr	2021	0.452
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2011	11,800
Fmgt	Fmgt-1/yr	2011	0.315
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	2757
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	3752
Flim	Flim-1/yr	2019	0.519
ERlim	-	-	-

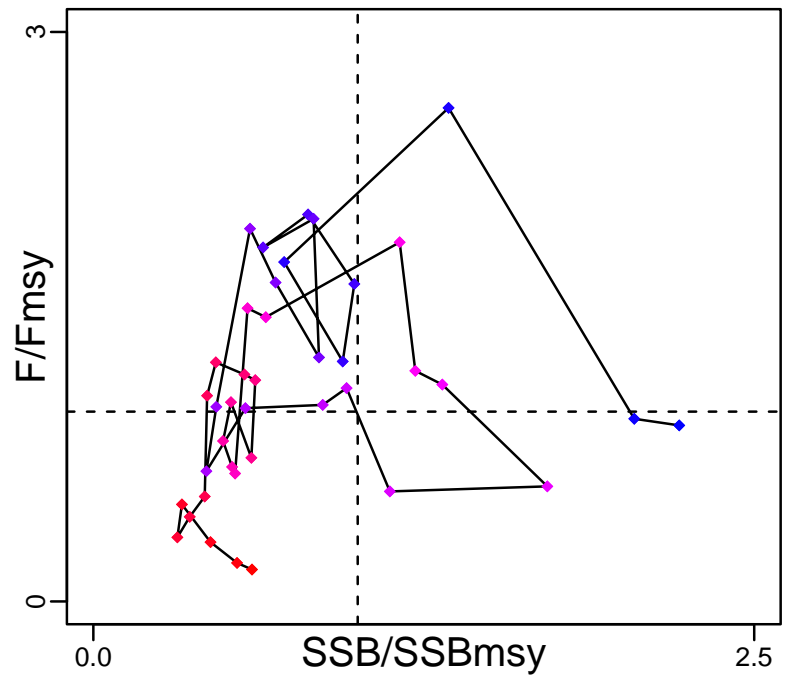
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	4503	-	-
TN	TN-E00	2011	38,600,000	-	-
R	R-E00	2021	8920	-	1
F	F-1/yr	2021	0.076	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	283		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.6		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.168		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.822		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.489		
ER/ERmgt	-	-	-		

Winter flounder Georges Bank [WINFLOUN5Z]

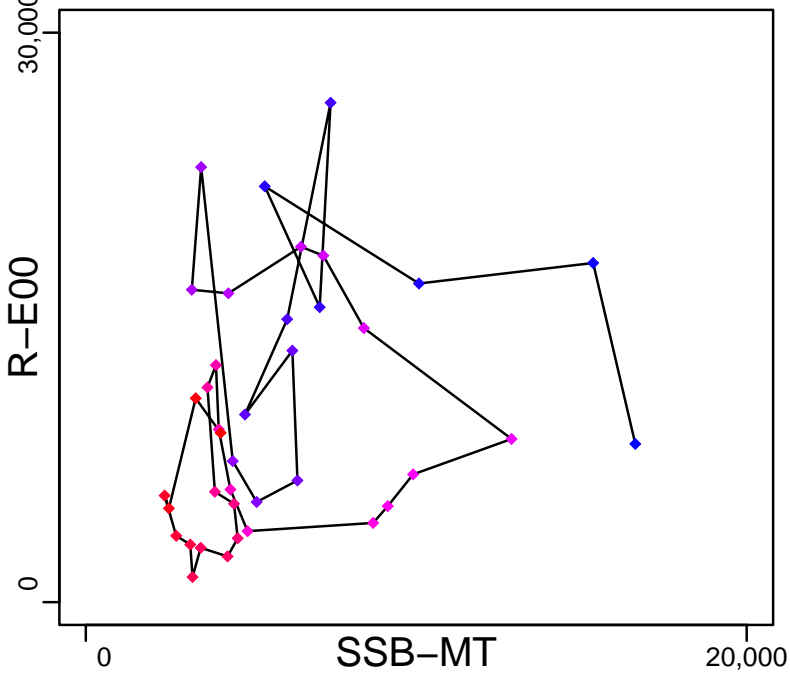
Kobe MSYpref (1981–2021–SISIMP2024)



Kobe MGTpref (1981–2021–SISIMP2024)



Spawner Recruit (1981–2021–SISIMP2024)



Production*



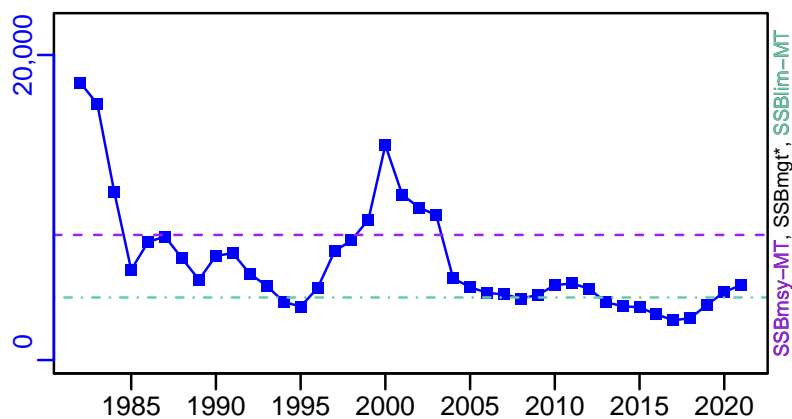
◆ Start Year ◆ End Year * No Data

Winter flounder Georges Bank [WINFLOUN5Z]

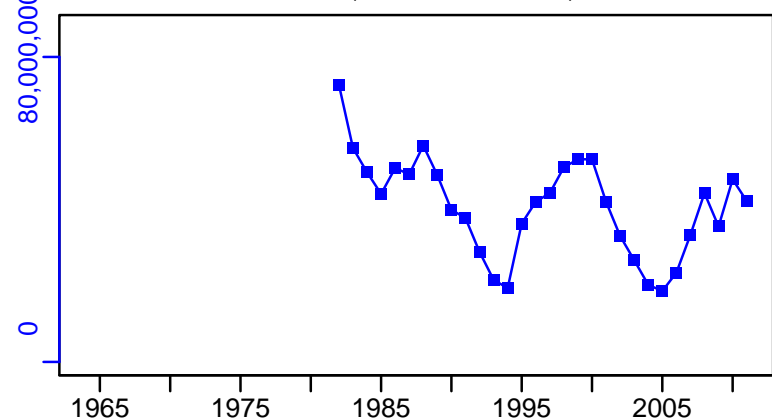
TB*



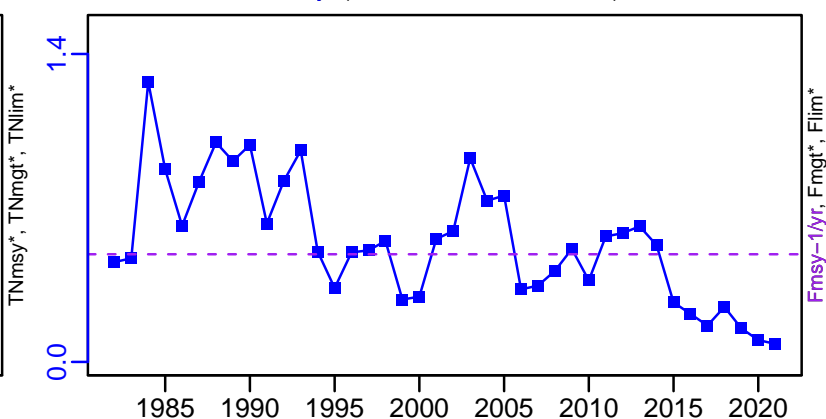
SSB-MT (1981-2021-SISIMP2024)



TN-E00 (1964-2011-HIVELY)



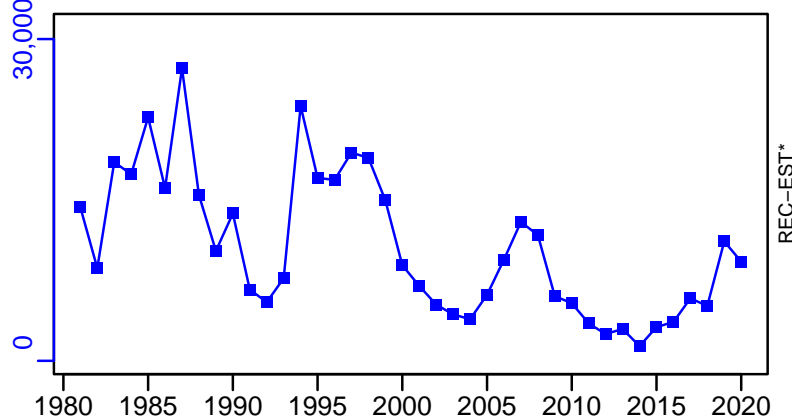
F-1/yr (1981-2021-SISIMP2024)



ER*

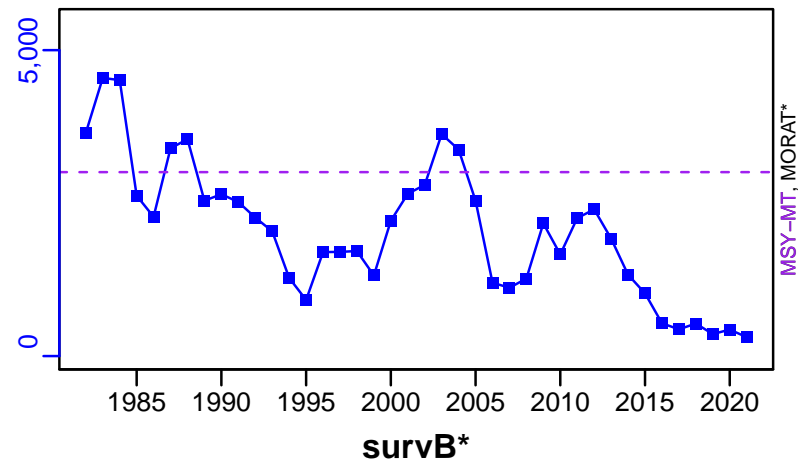


R-E00 (1981-2021-SISIMP2024)



Winter flounder Georges Bank [WINFLOUN5Z]

TC-MT, TL*, RecC* (1981-2021-SISIMP2024)



TAC*, Cpair*, Cadv*



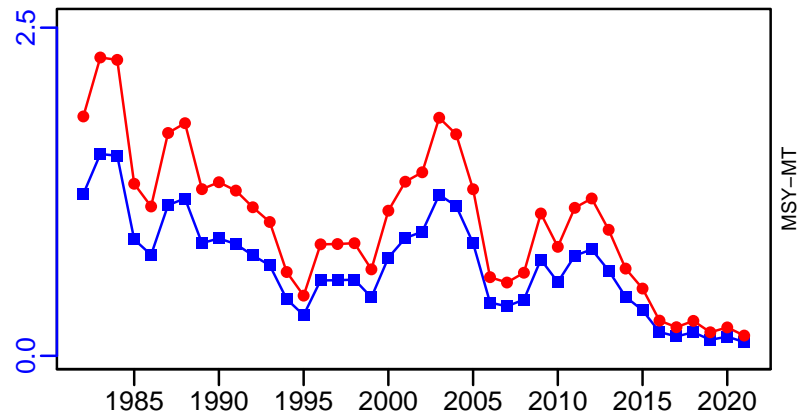
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2021-SISIMP2024)



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

Winter flounder Gulf of Maine [WINFLOUND5Y]

Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUND5Y-1982-2019-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2019, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2008	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	0.23

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.052	-	-
TC	TC-MT	2019	150		
TL	TL-MT	2008	260		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

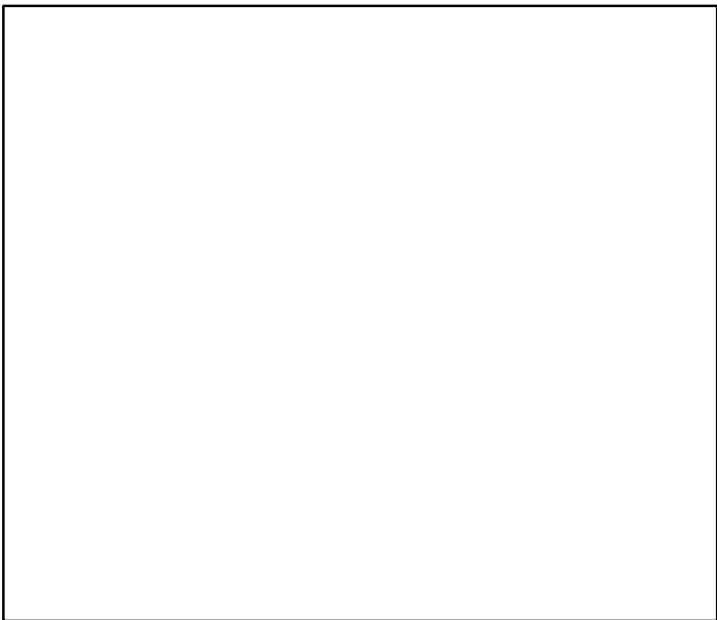
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Winter flounder Gulf of Maine [WINFLOUND5Y]

TB*



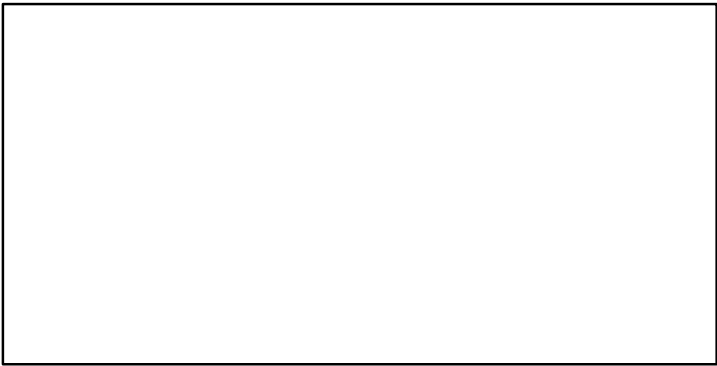
SSB*



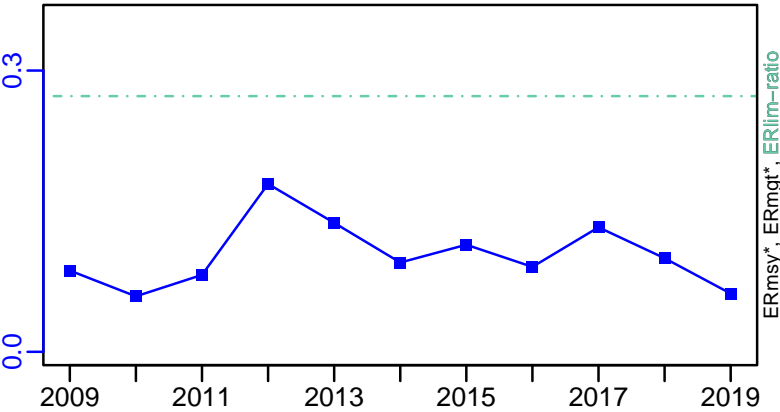
TN *



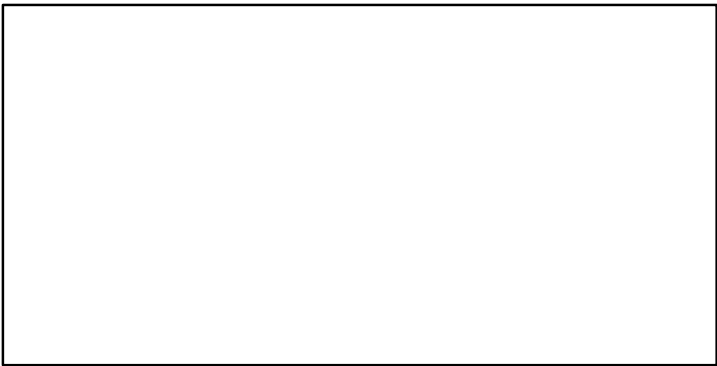
F*



ER-ratio (1982–2019–SISIMP2021–2)

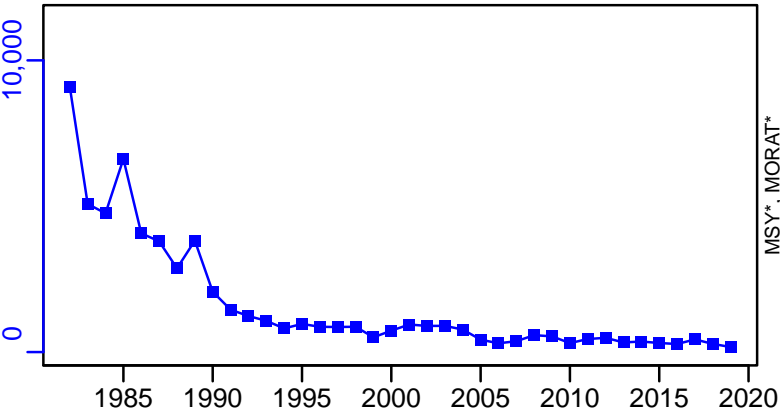


Recruits*



Winter flounder Gulf of Maine [WINFLOUND5Y]

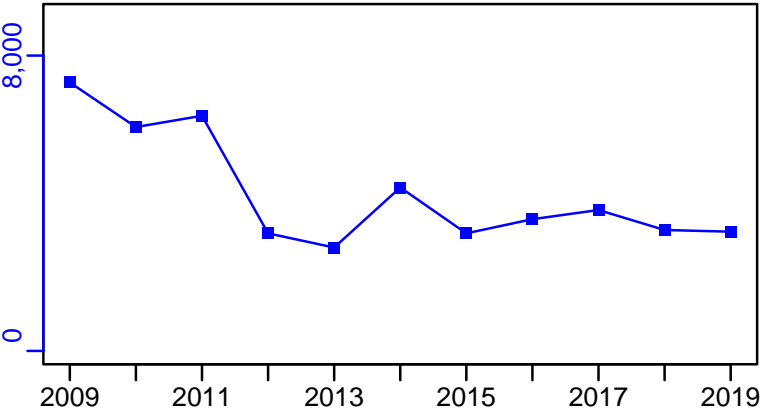
TC-MT, TL*, RecC* (1982-2019-SISIMP2021-2)



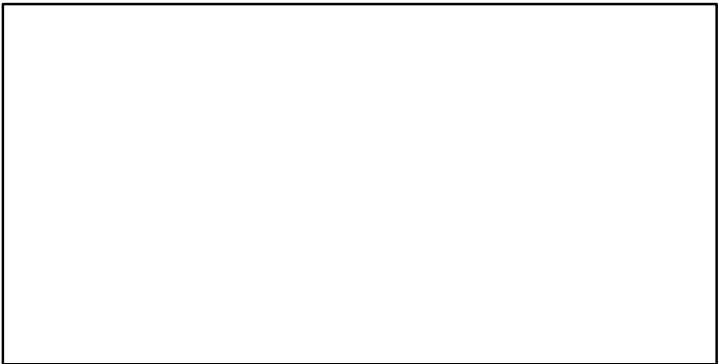
TAC*, Cpair*, Cadv*



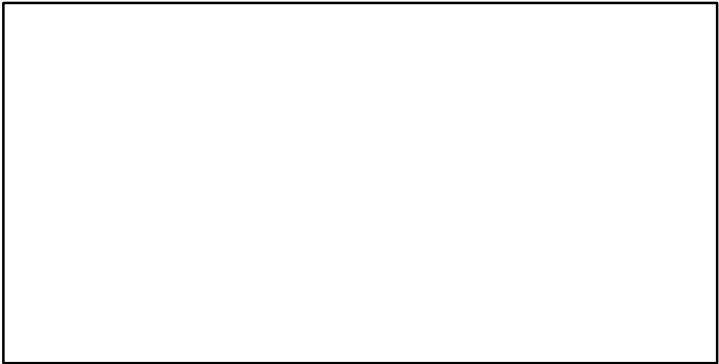
survB-MT (1982-2019-SISIMP2021-2)



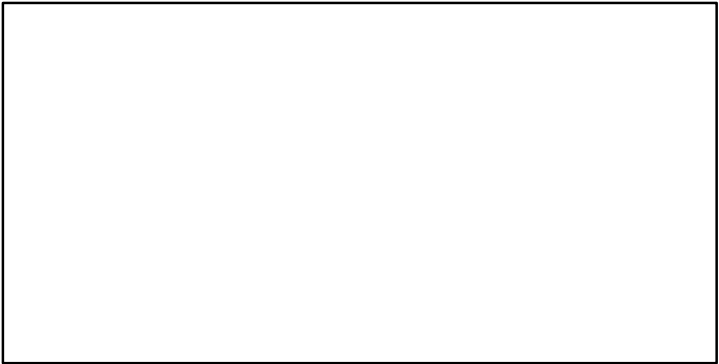
CPUE*



EFFORT*



CdivMSY*



Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

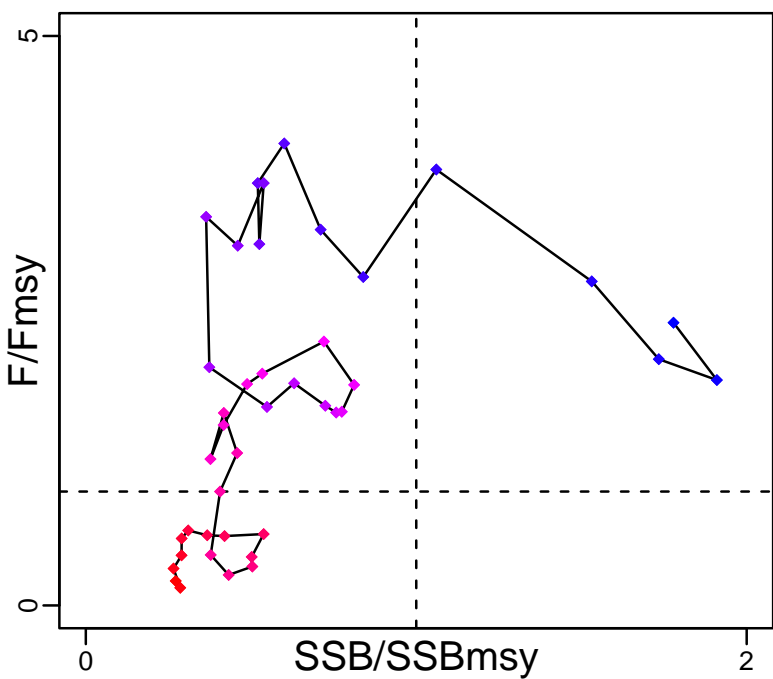
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUNSNEMATL-1981-2022-SISIMP2022
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2013, 2016, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	12,322
Fmsy	Fmsy-1/yr	2022	0.284
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2010	43,661
Fmgt	Fmgt-1/yr	2010	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	3906
M	M-1/yr	2010	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	6160
Flim	Flim-1/yr	2019	0.284
ERlim	-	-	-

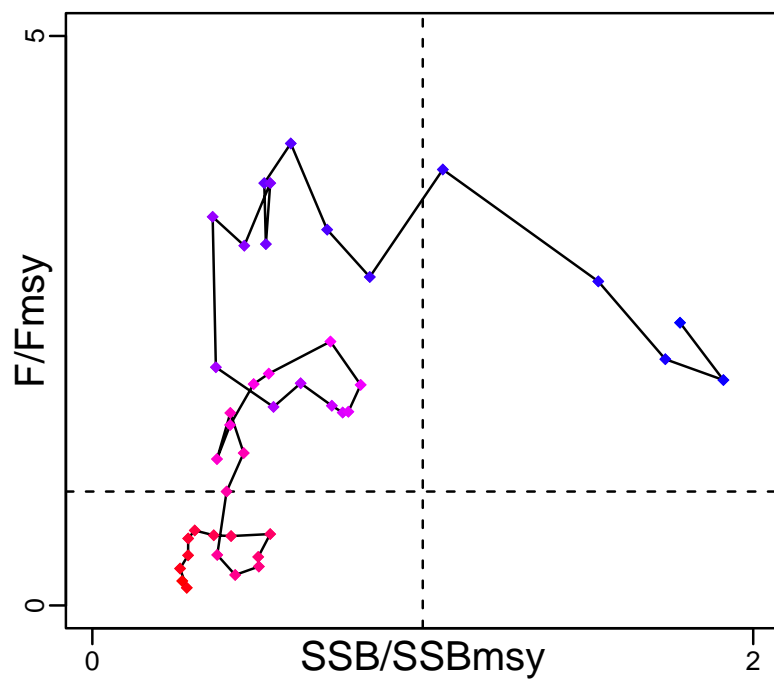
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2022	3472	-	-
TN	-	-	-	-	-
R	R-E00	2022	4,364,000	-	0
F	F-1/yr	2022	0.061	-	4 to 5
ER	-	-	-	-	-
TC	TC-MT	2022	216		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.282		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.215		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2010	0.162		
F/Fmgt	F-1/yr/Fmgt-1/yr	2010	0.227		
ER/ERmgt	-	-	-		

Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

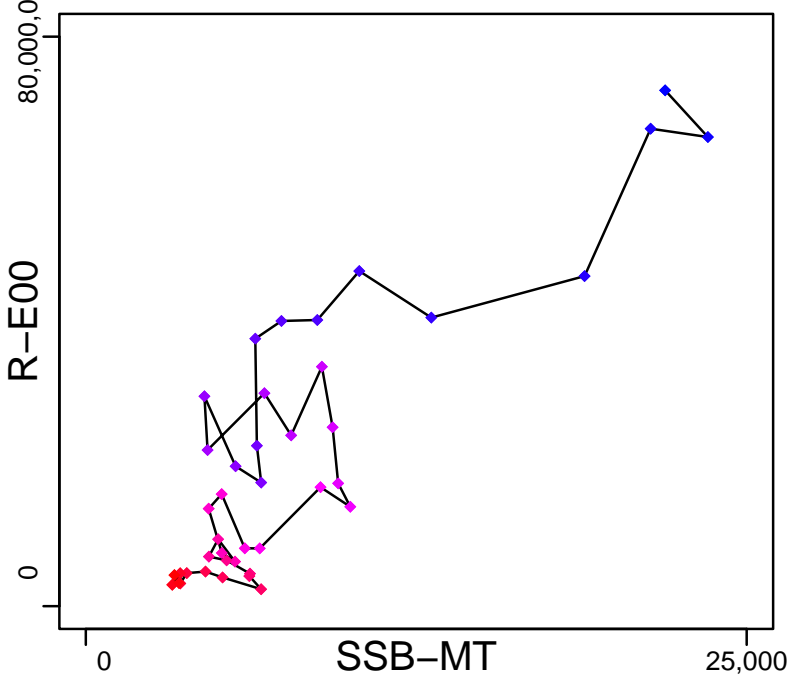
Kobe MSYpref (1981–2022–SISIMP2022)



Kobe MGTpref (1981–2022–SISIMP2022)



Spawner Recruit (1981–2022–SISIMP2022)



Production*



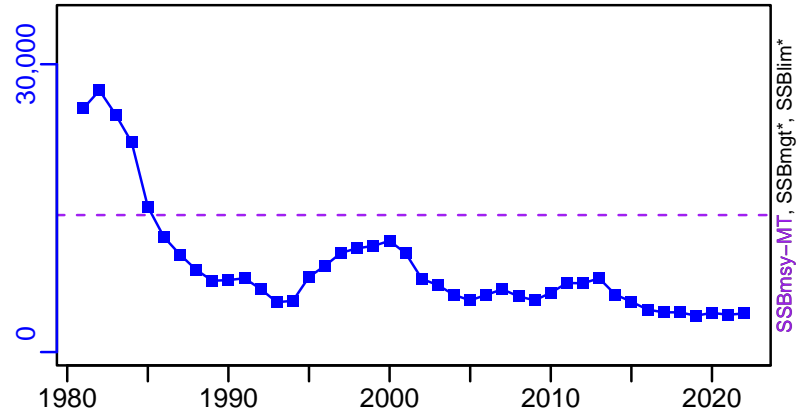
◆ Start Year ◆ End Year * No Data

Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

TB*



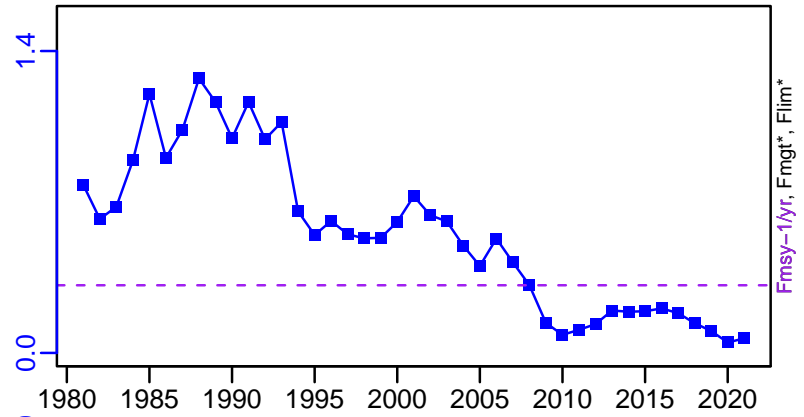
SSB-MT (1981-2022-SISIMP2022)



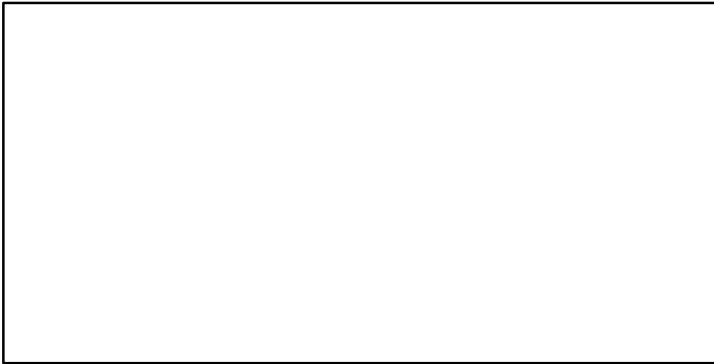
TN *



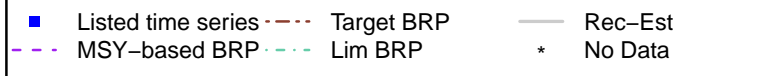
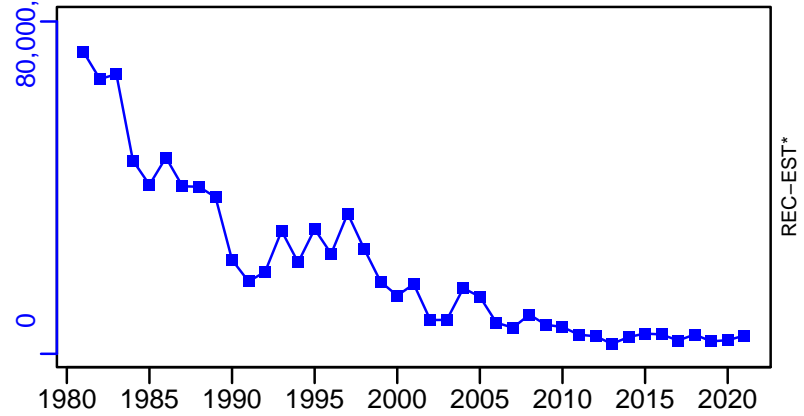
F-1/yr (1981-2022-SISIMP2022)



ER*



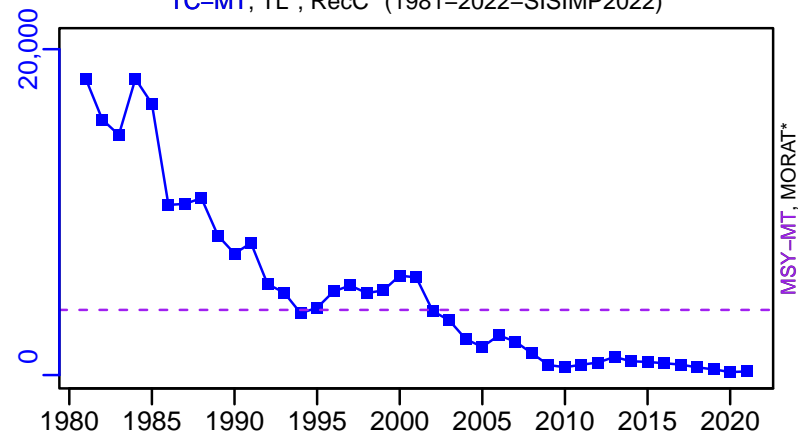
R-E00 (1981-2022-SISIMP2022)



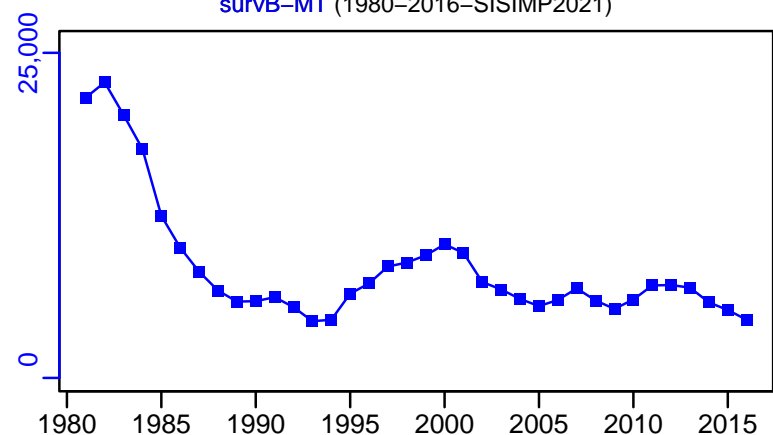
Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

TC-MT, TL*, RecC* (1981-2022-SISIMP2022)

TAC*, Cpair*, Cadv*



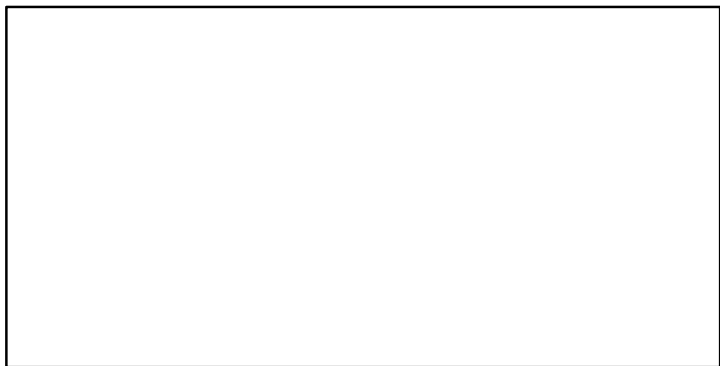
survB-MT (1980-2016-SISIMP2021)



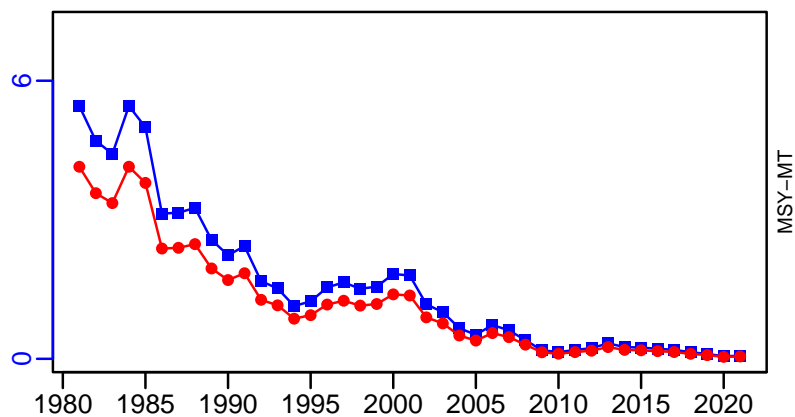
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2022-SISIMP2022)



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

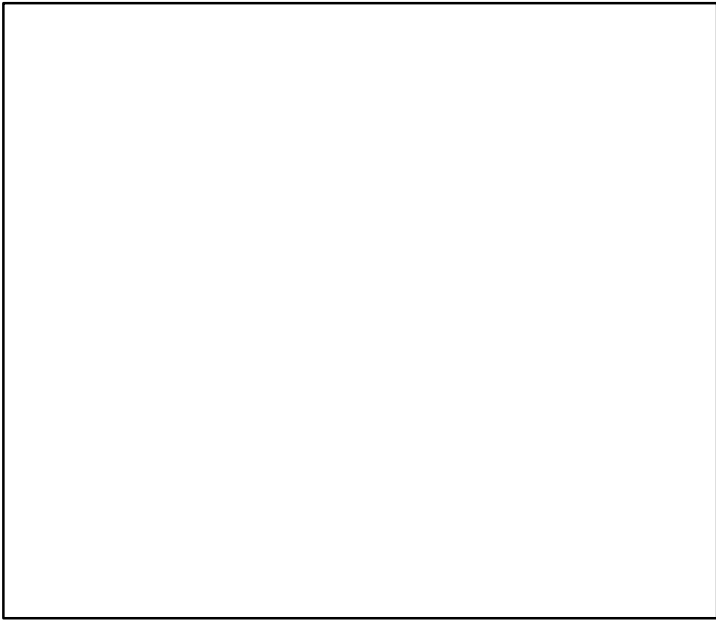
Witch flounder Southern Labrador-Eastern Newfoundland [WITFLOUN2J3KL]

Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	DFO-NFLD-WITFLOUN2J3KL-1960-2017-ASHBROOK
Area	Southern Labrador-Eastern Newfoundland
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2017

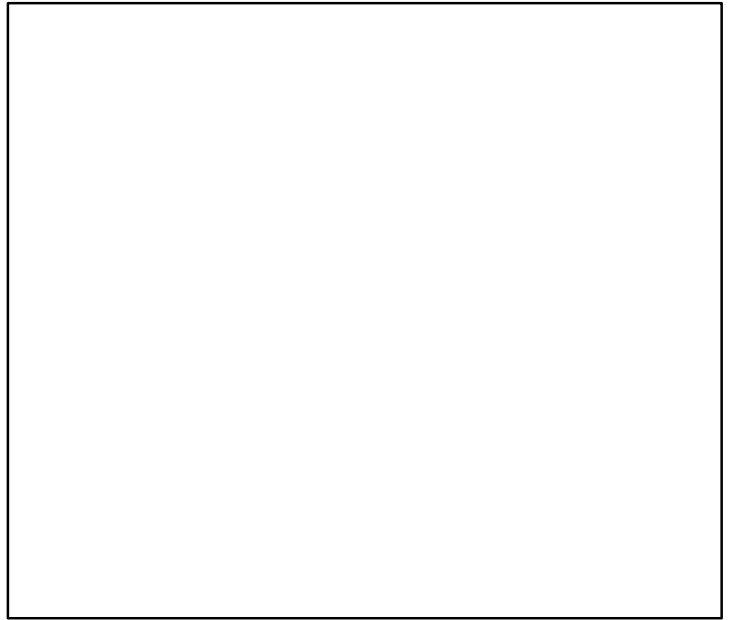
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	190		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

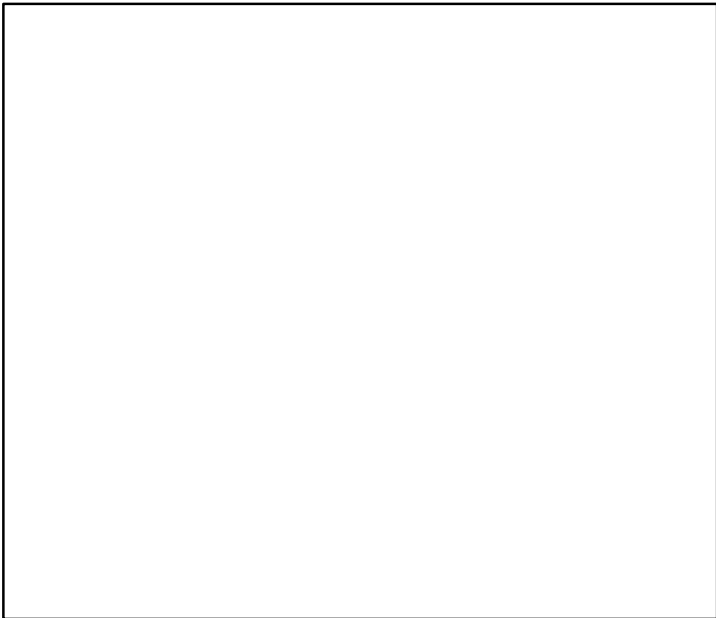
Kobe MSY*



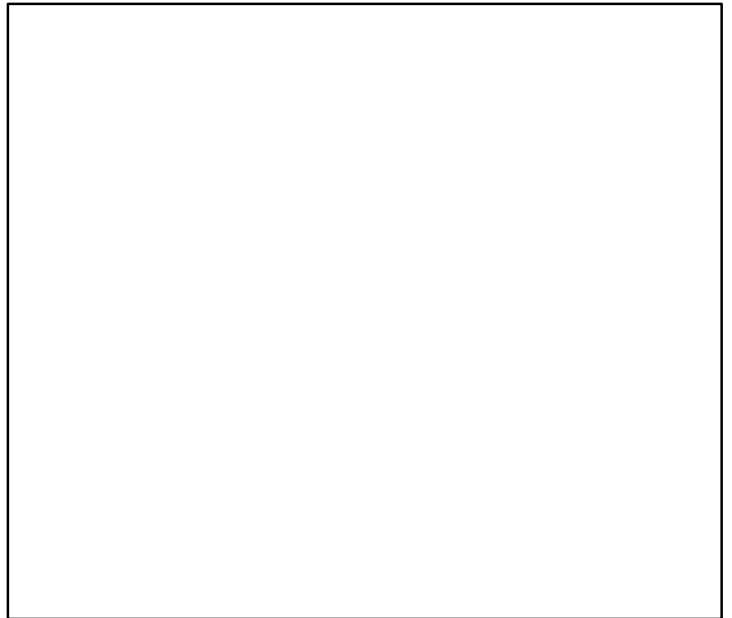
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



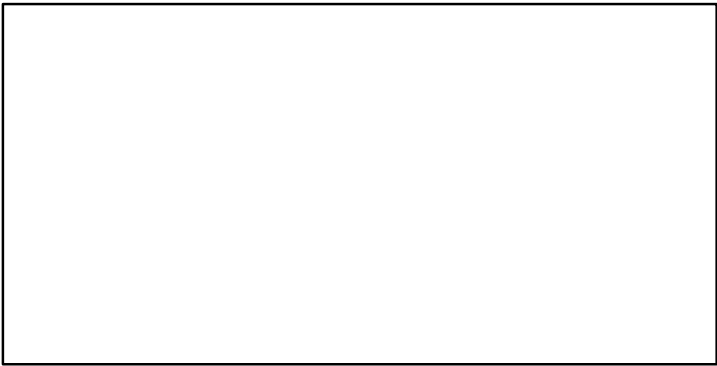
SSB*



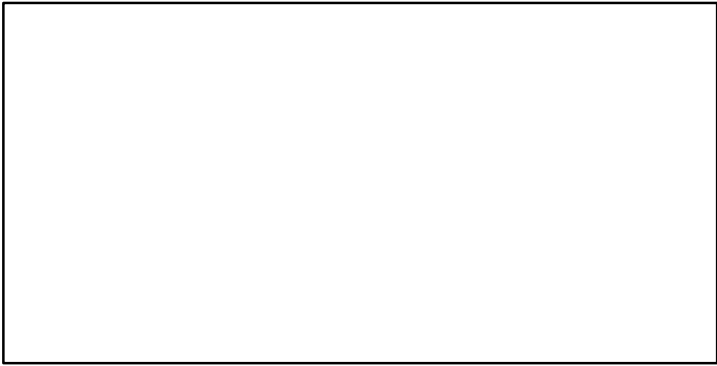
TN *



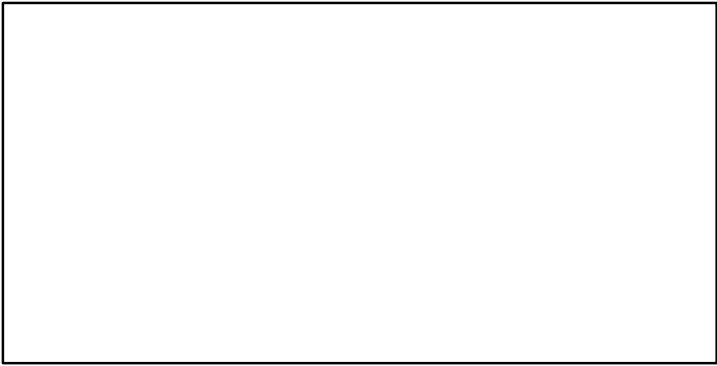
F*



ER*

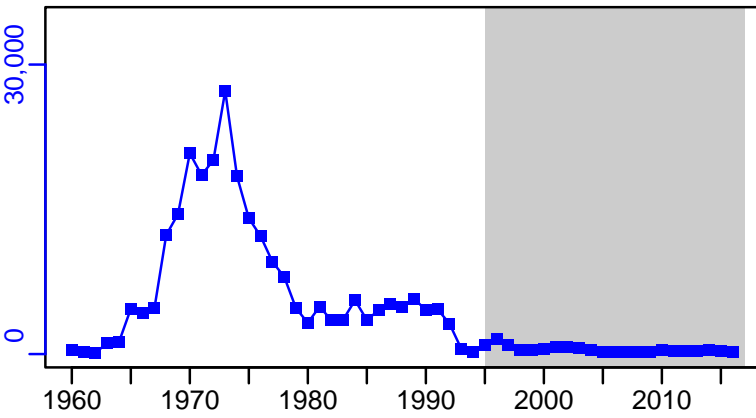


Recruits*

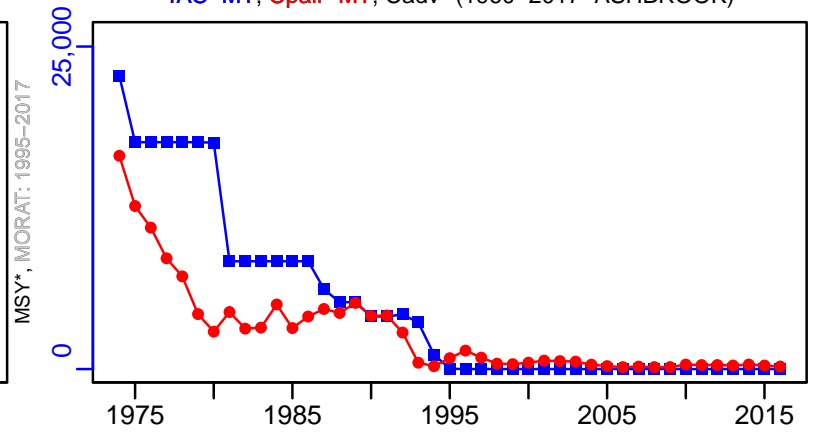


Witch flounder Southern Labrador–Eastern Newfoundland [WITFLOUN2J3KL]

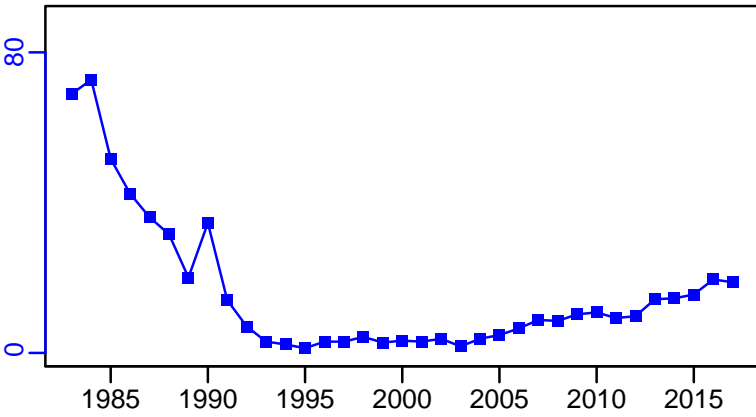
TL–MT, TC*, RecC* (1960–2017–ASHBROOK)



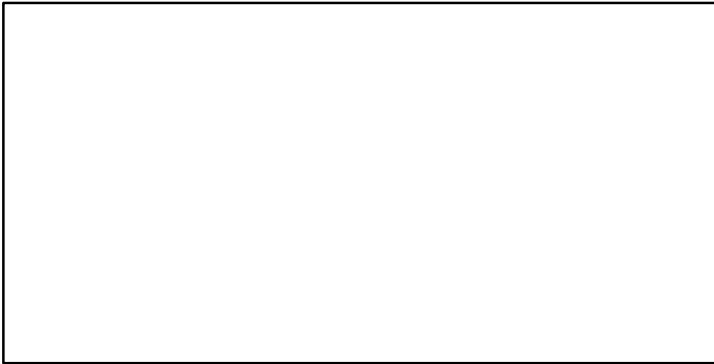
TAC–MT, Cpair–MT, Cadv* (1960–2017–ASHBROOK)



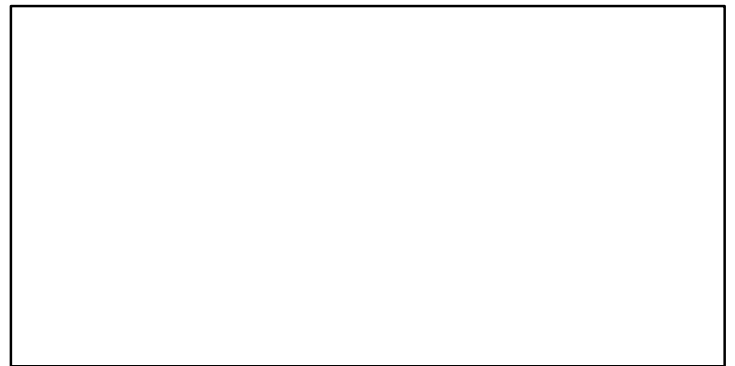
survB–1–index (1960–2017–ASHBROOK)



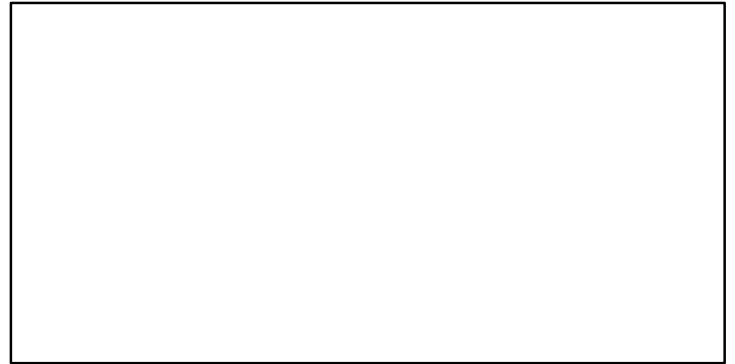
EFFORT*



CPUE*



CdivMSY*



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

Witch flounder St. Pierre Bank [WITFLOUN3Ps]

Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	DFO-NFLD-WITFLOUN3Ps-1974-2017-ASHBROOK
Area	St. Pierre Bank
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2013, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	412		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

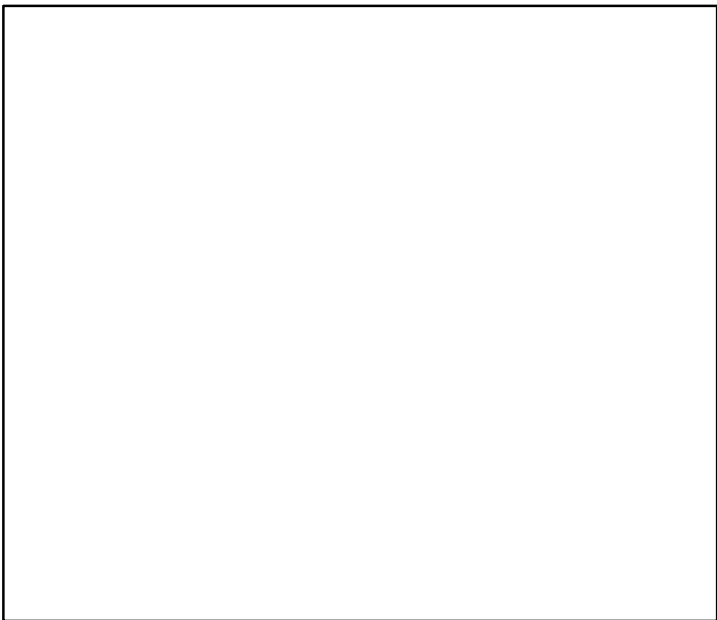
Kobe MSY*



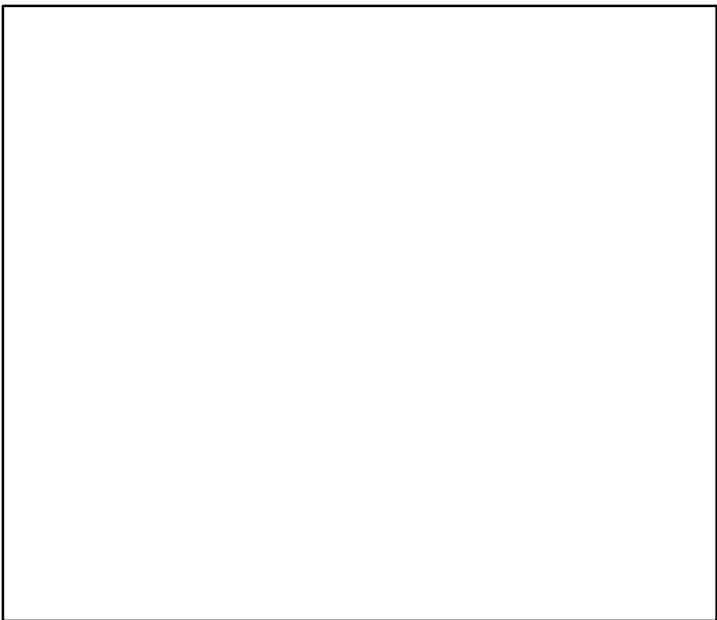
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Witch flounder St. Pierre Bank [WITFLOUN3Ps]

TB*



SSB*



TN *



F*



ER*



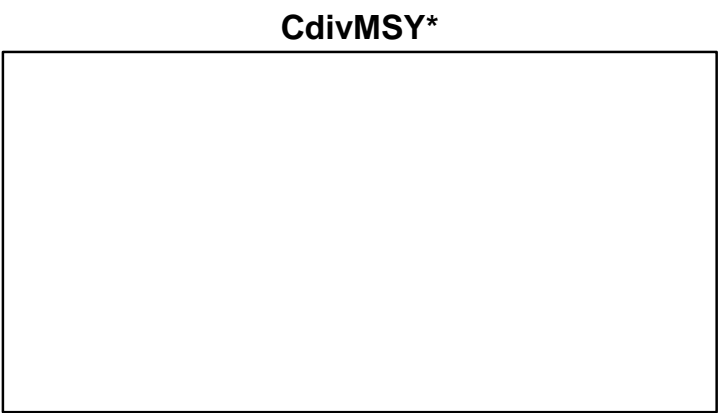
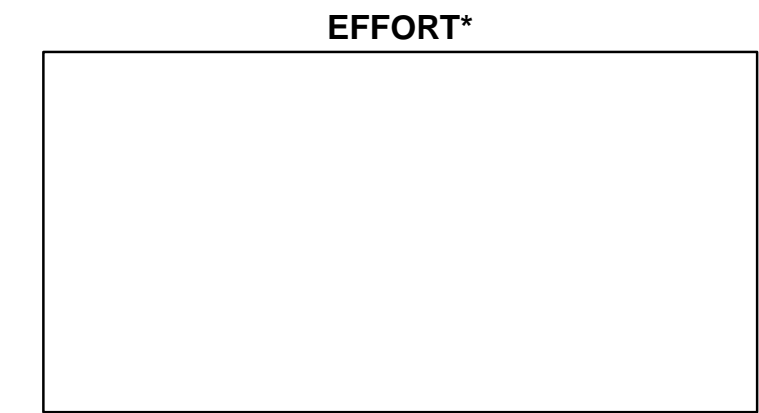
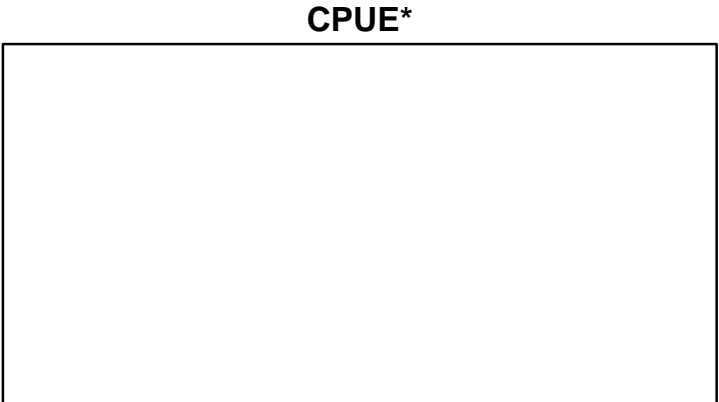
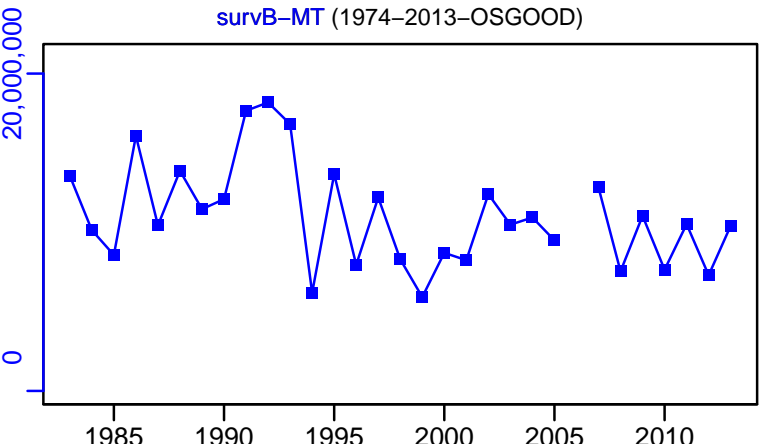
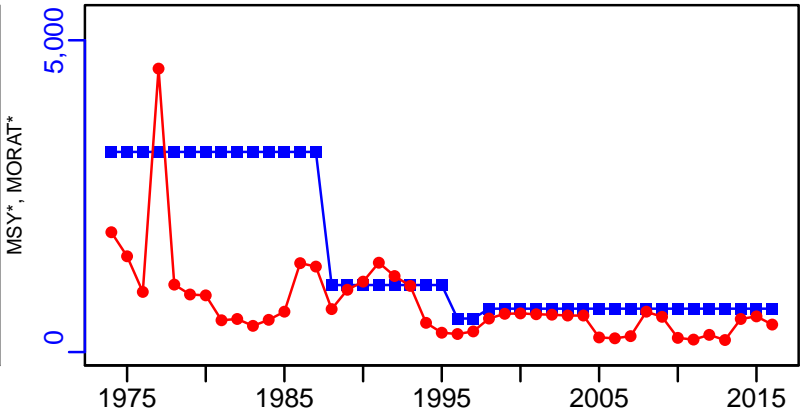
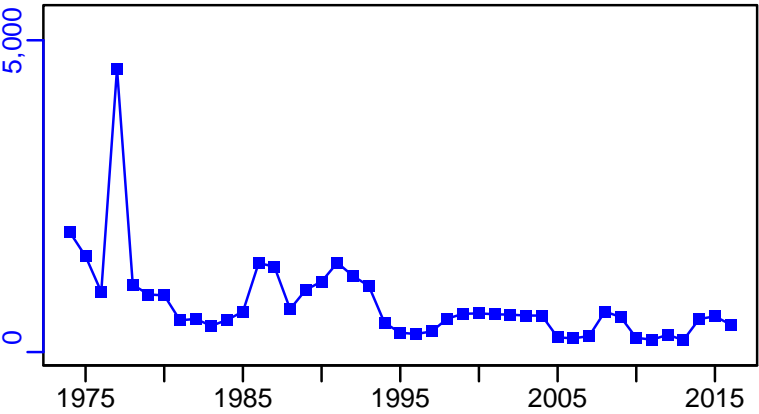
Recruits*



Witch flounder St. Pierre Bank [WITFLOUN3Ps]

TL-MT, TC*, RecC* (1974-2017-ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1974-2017-ASHBROOK)



Witch flounder Gulf of St. Lawrence [WITFLOUN4RST]

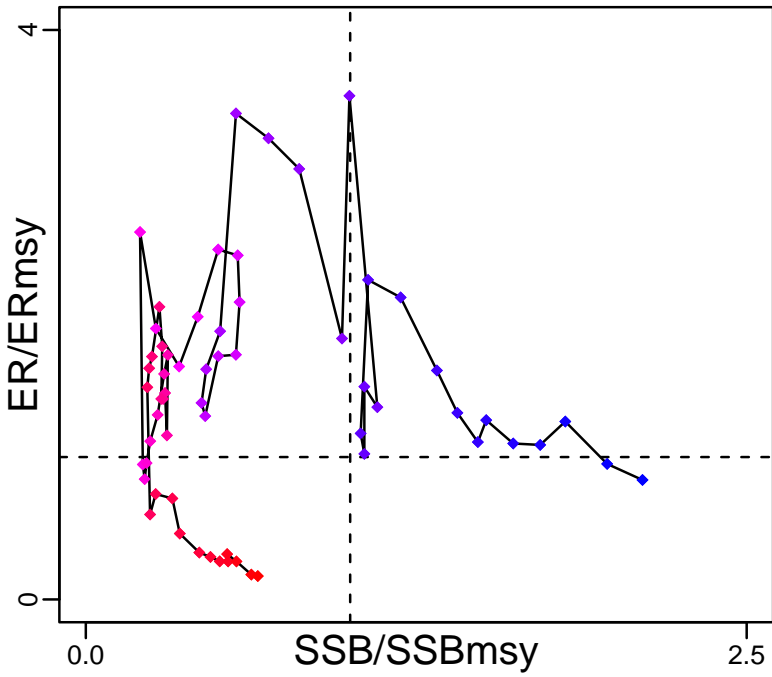
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	DFO-SG-WITFLOUN4RST-1960-2021-HIVELY
Area	Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	2011, 2016, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2021	27,620
SSBmsy	SSBmsy-MT	2021	26,749
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2021	0.071
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	21,000
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2011	0.07
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	1961
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	10,500
Flim	-	-	-
ERlim	-	-	-

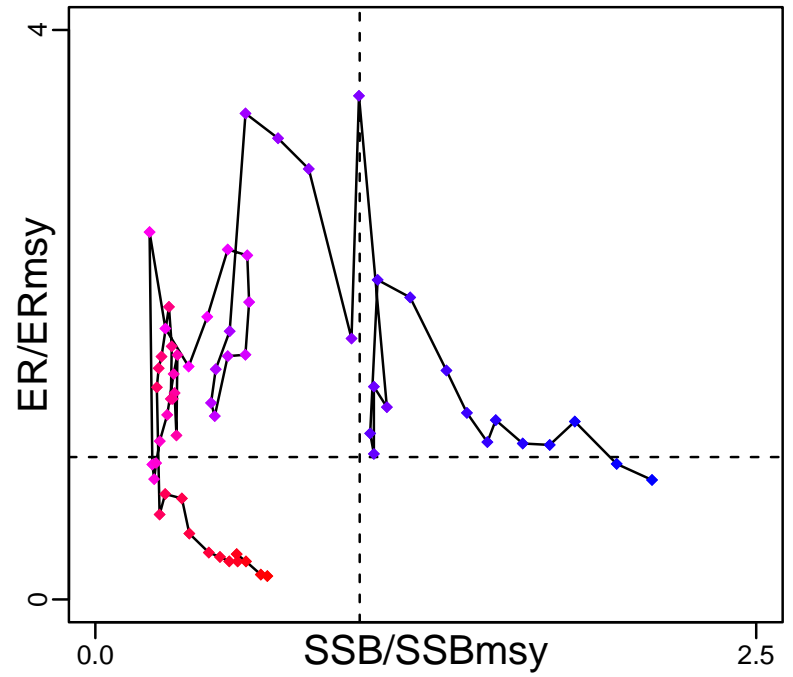
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	17,404	-	-
TN	-	-	-	-	-
R	R-E00	2016	16,327	-	-
F	-	-	-	-	-
ER	ER-ratio	2021	0.012	-	-
TC	-	-	-		
TL	TL-MT	2021	208		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.651		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2021	0.164		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.642		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Witch flounder Gulf of St. Lawrence [WITFLOUN4RST]

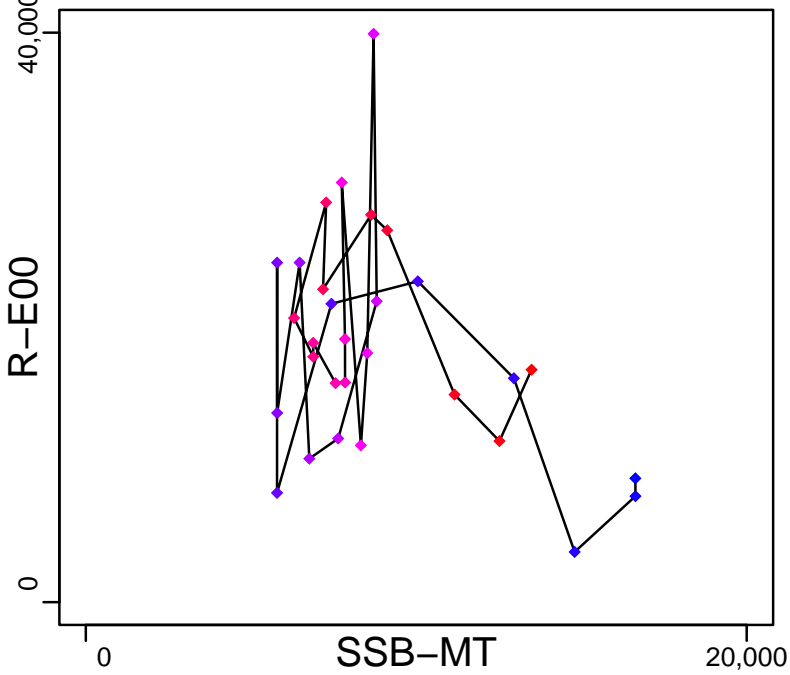
Kobe MSYpref (1960–2021–HIVELY)



Kobe MGTpref (1960–2021–HIVELY)



Spawner Recruit (1960–2016–ASHBROOK)



Production*



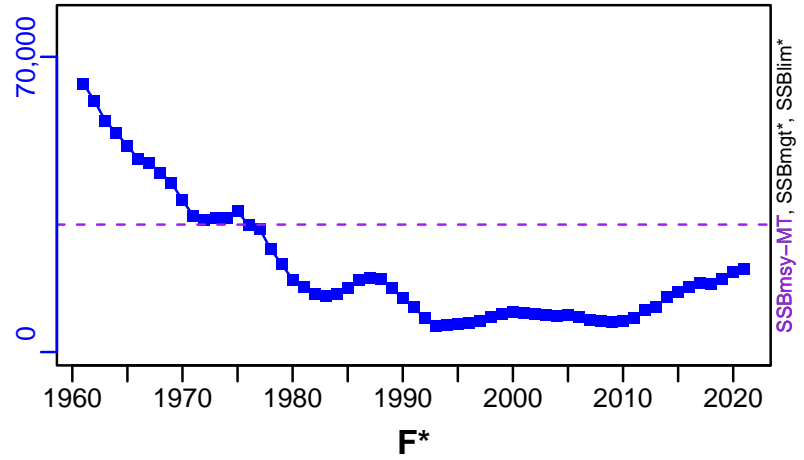
◆ Start Year ◆ End Year * No Data

Witch flounder Gulf of St. Lawrence [WITFLOUN4RST]

TB*



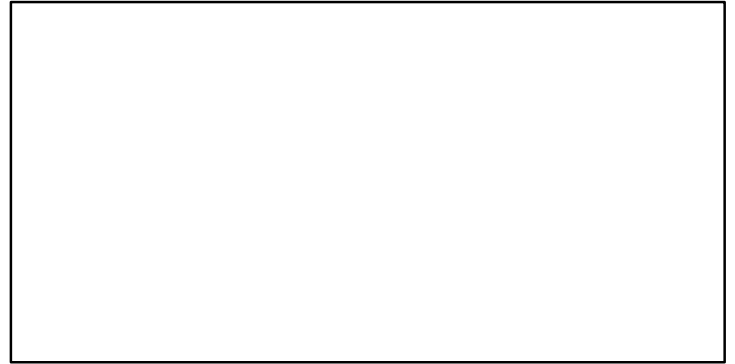
SSB-MT (1960–2021–HIVELY)



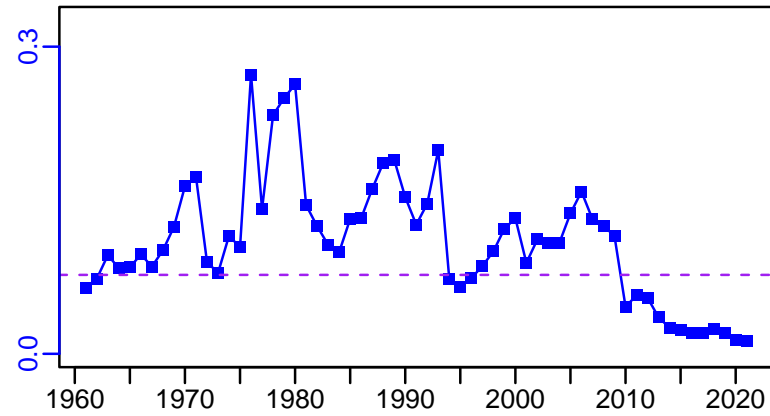
TN *



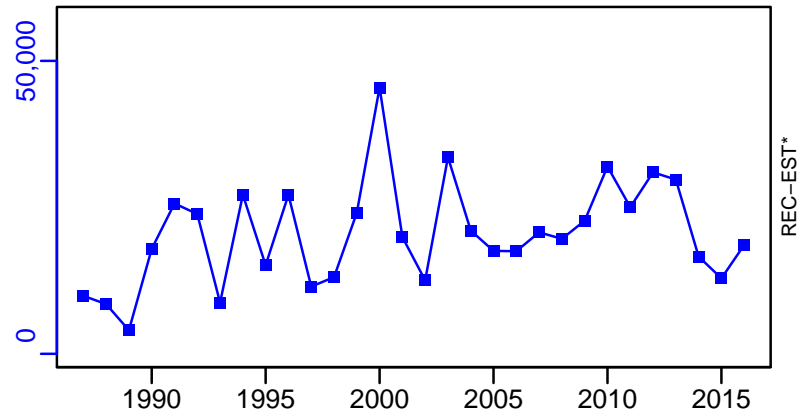
F*



ER-ratio (1960–2021–HIVELY)

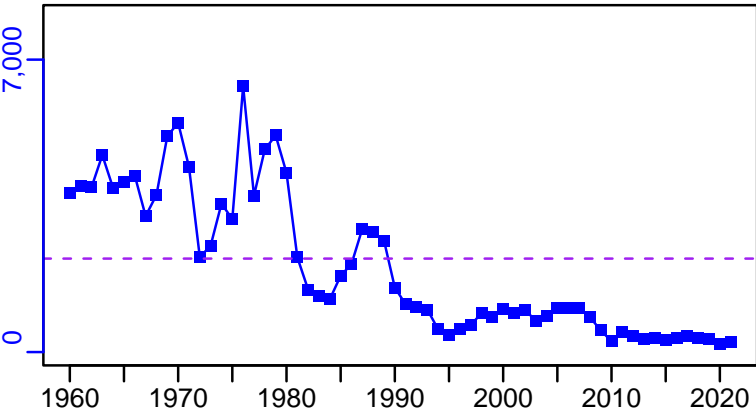


R-E00 (1960–2016–ASHBROOK)

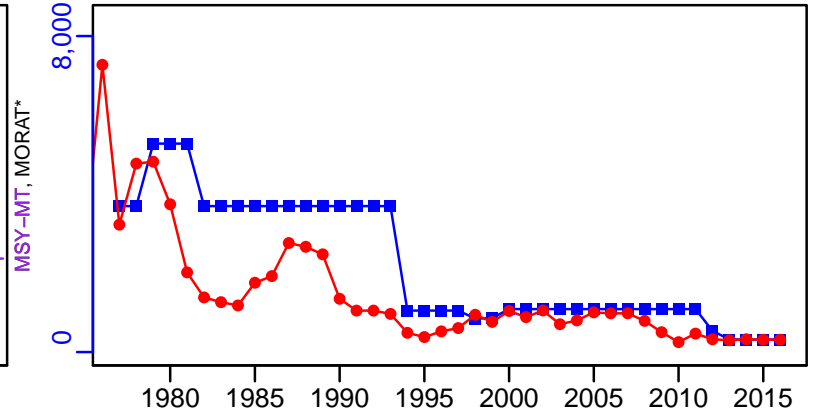


Witch flounder Gulf of St. Lawrence [WITFLOUN4RST]

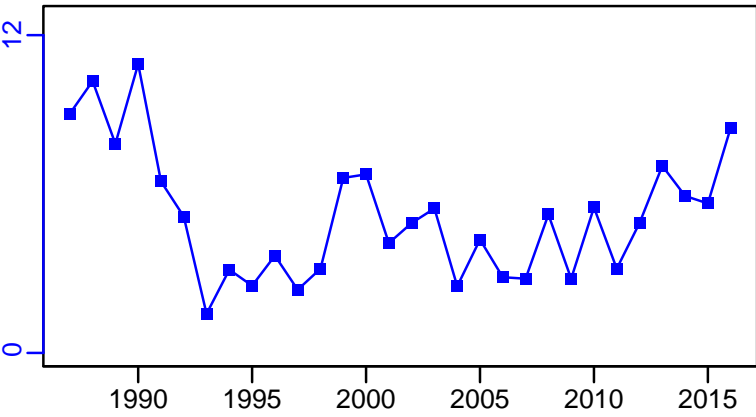
TL-MT, TC*, RecC* (1960-2021-HIVELY)



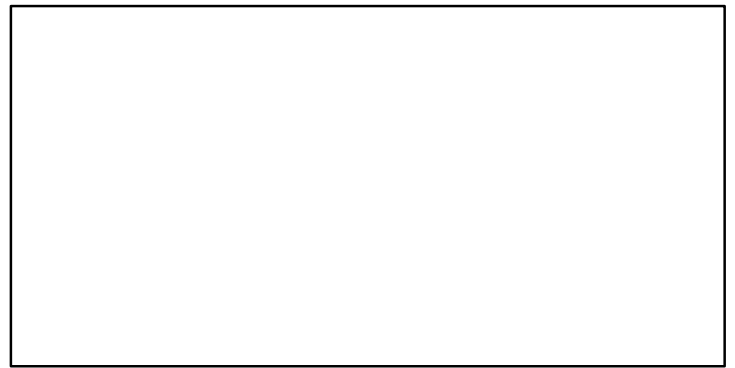
TAC-MT, Cpair-MT, Cadv* (1960-2016-ASHBROOK)



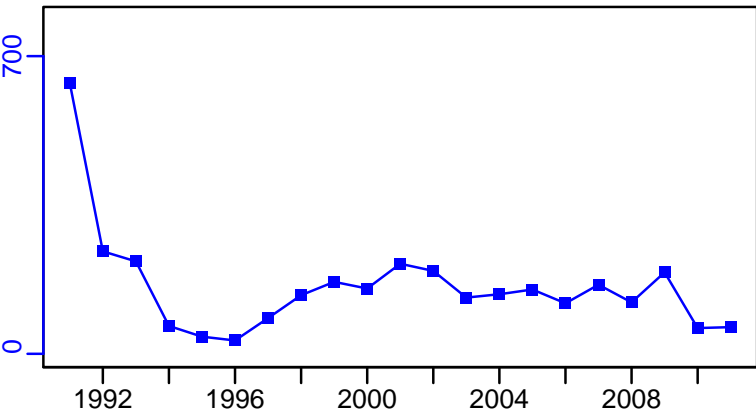
survB-index (1960-2016-ASHBROOK)



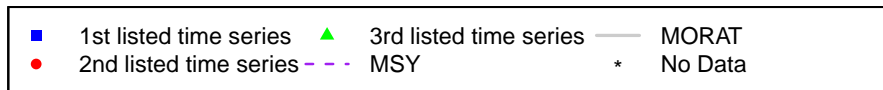
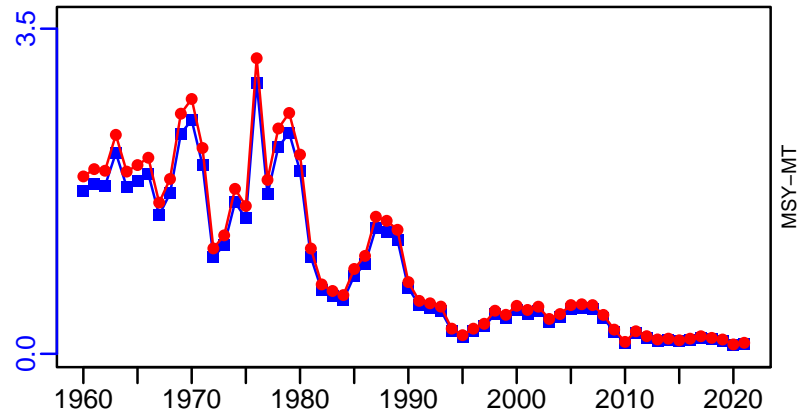
CPUE*



EFFORT-day (1960-2011-OSGOOD)



TL-MT/MSY-MT, CdivMEANC-ratio, (1960-2021-HIVELY)



Witch flounder Gulf of Maine [WITFLOUN5Y]

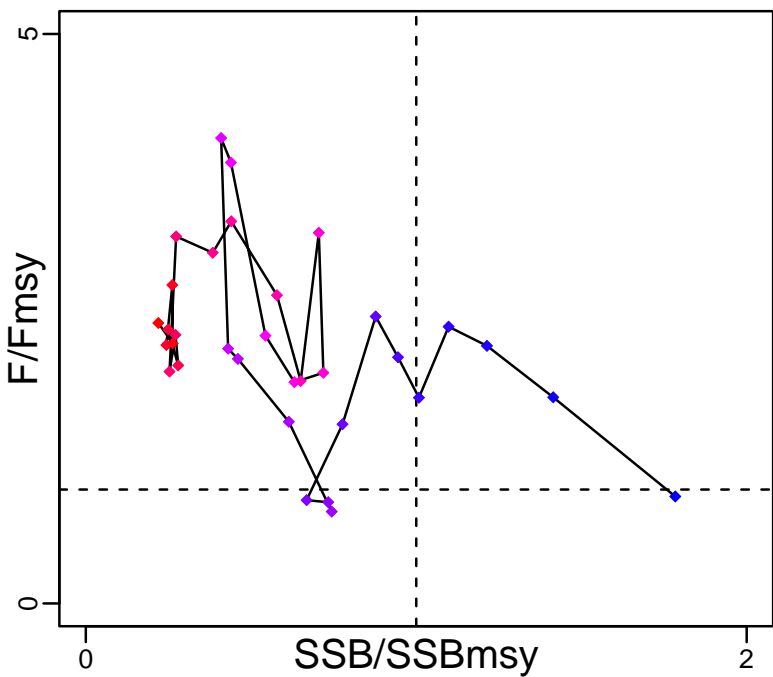
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	NEFSC-WITFLOUN5Y-1937-2021-SISIMP2024
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2019, 2021, 2008, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	9473
Fmsy	Fmsy-1/yr	2014	0.279
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	1957
M	M-1/yr	2008	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	4736
Flim	Flim-1/yr	2014	0.279
ERlim	-	-	-

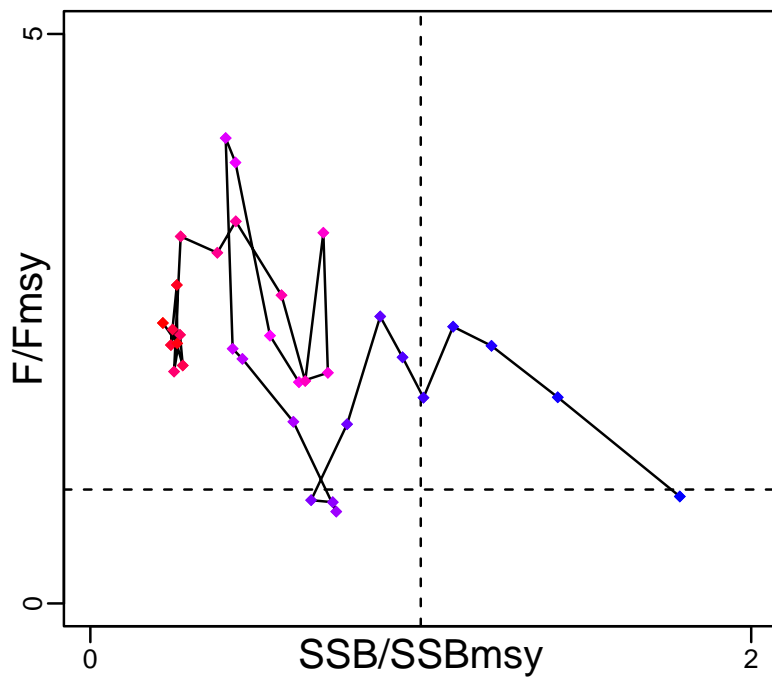
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	22,419	-	-
TN	-	-	-	-	-
R	R-E00	2014	10,200,000	-	3
F	F-1/yr	2014	0.687	-	-
ER	ER-ratio	2021	0.039	-	-
TC	TC-MT	2021	823		
TL	TL-MT	2008	1070		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.22		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	2.462		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Witch flounder Gulf of Maine [WITFLOUN5Y]

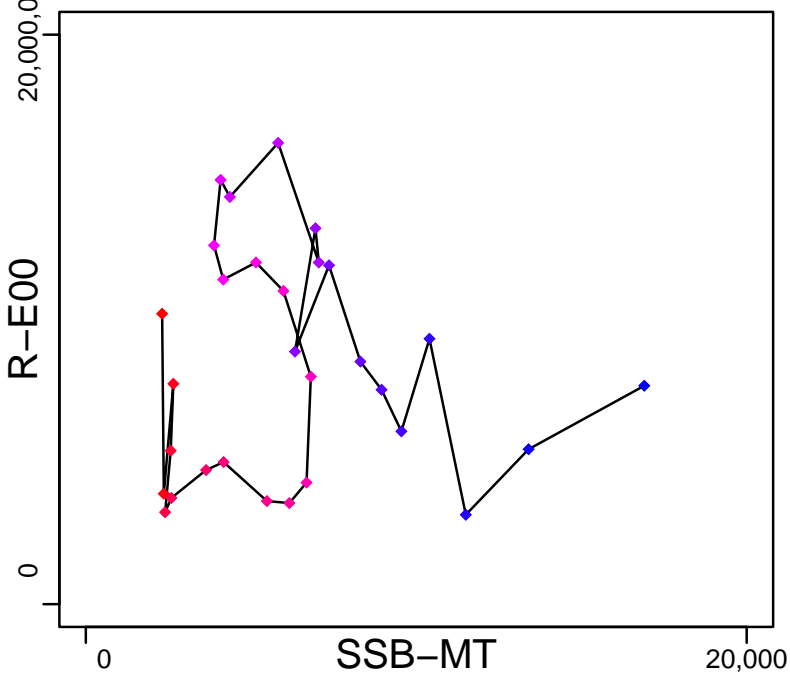
Kobe MSYpref (1982–2014–SISIMP2016)



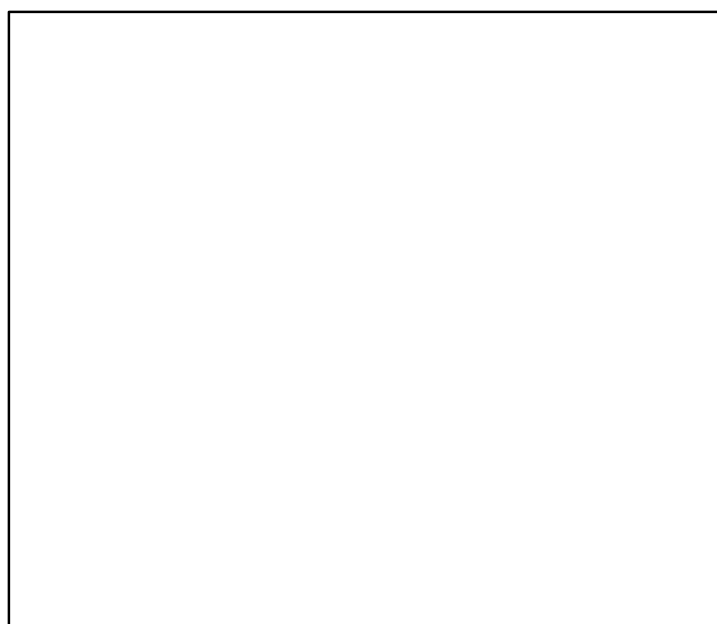
Kobe MGTpref (1982–2014–SISIMP2016)



Spawner Recruit (1982–2014–SISIMP2016)



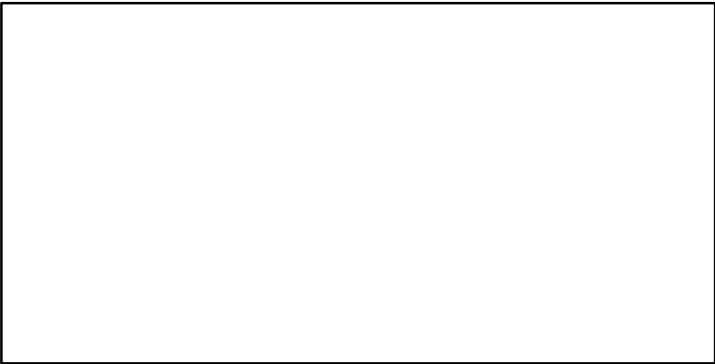
Production*



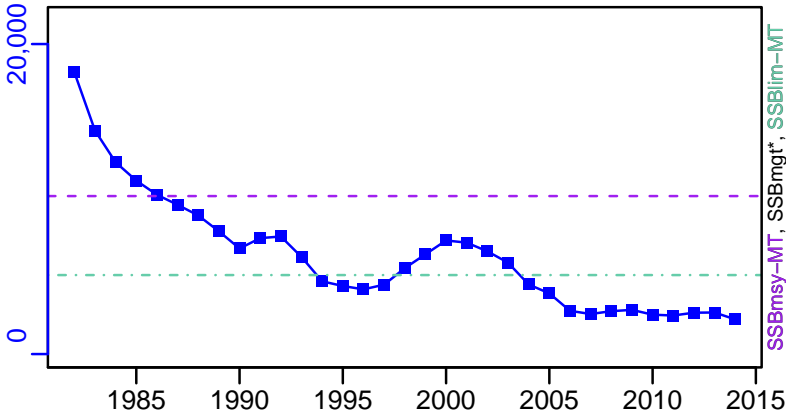
◆ Start Year ◆ End Year * No Data

Witch flounder Gulf of Maine [WITFLOUN5Y]

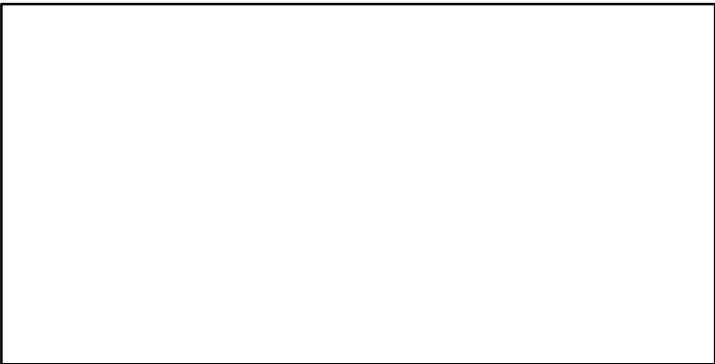
TB*



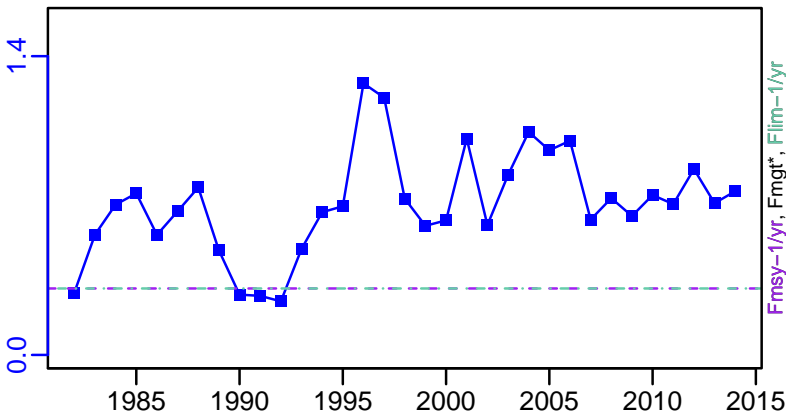
SSB-MT (1982–2014–SISIMP2016)



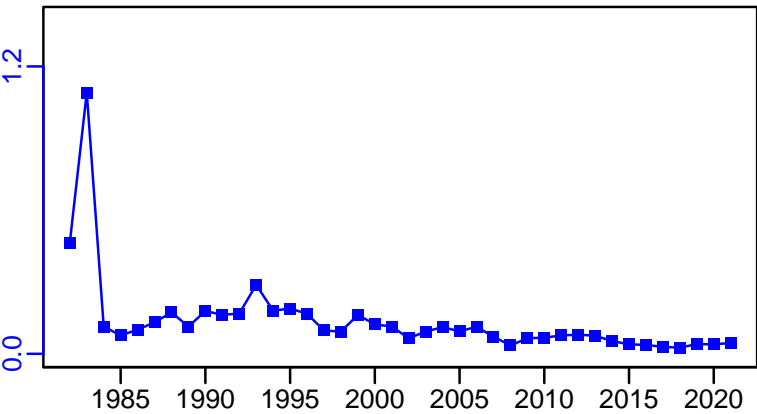
TN *



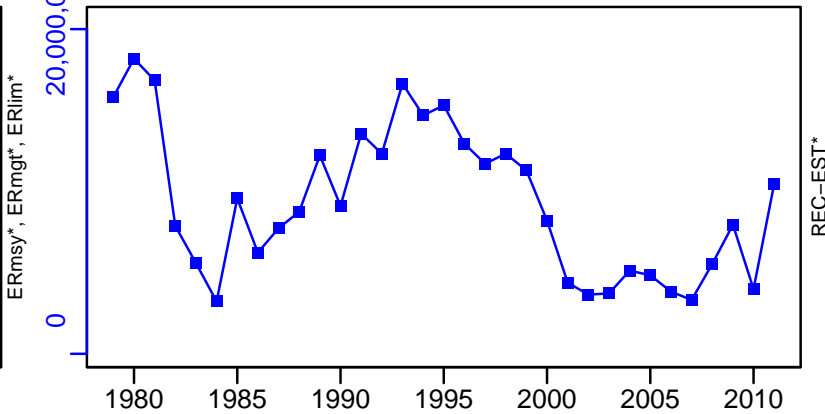
F-1/yr (1982–2014–SISIMP2016)



ER-ratio (1937–2021–SISIMP2024)

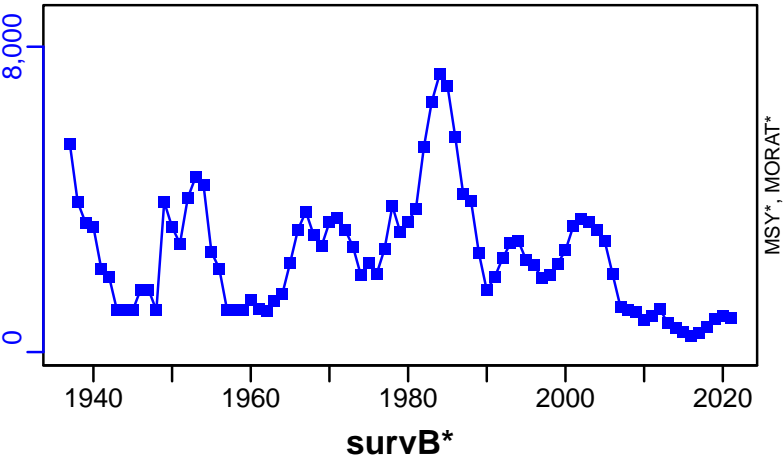


R-E00 (1982–2014–SISIMP2016)



Witch flounder Gulf of Maine [WITFLOUN5Y]

TC-MT, TL*, RecC* (1937-2021-SISIMP2024)



TAC*, Cpair*, Cadv*



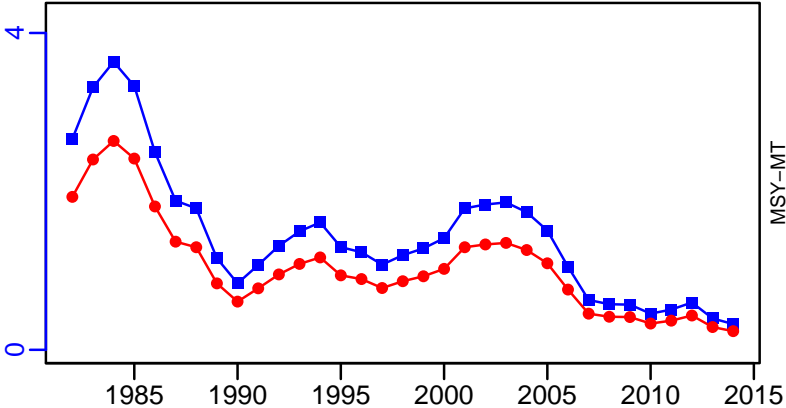
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2014-SISIMP2016)



Witch flounder ICES 3a-4-7d [WITFLOUNIIIa-IV-VIId]

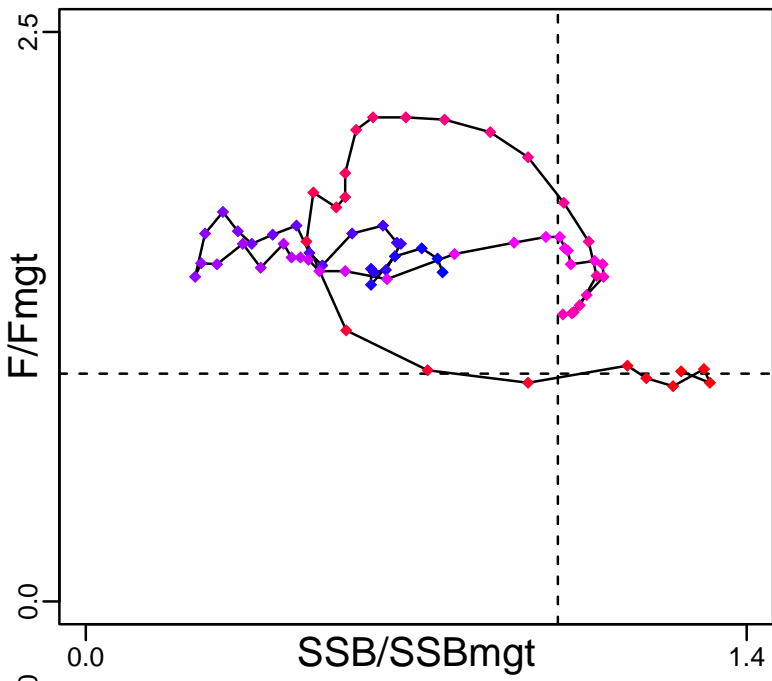
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	WGNSSK-WITFLOUNIIIa-IV-VIId-1950-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2019, 2020, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	4750
Fmgt	Fmgt-1/yr	2020	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	3070
Flim	Flim-1/yr	2020	0.3
ERlim	-	-	-

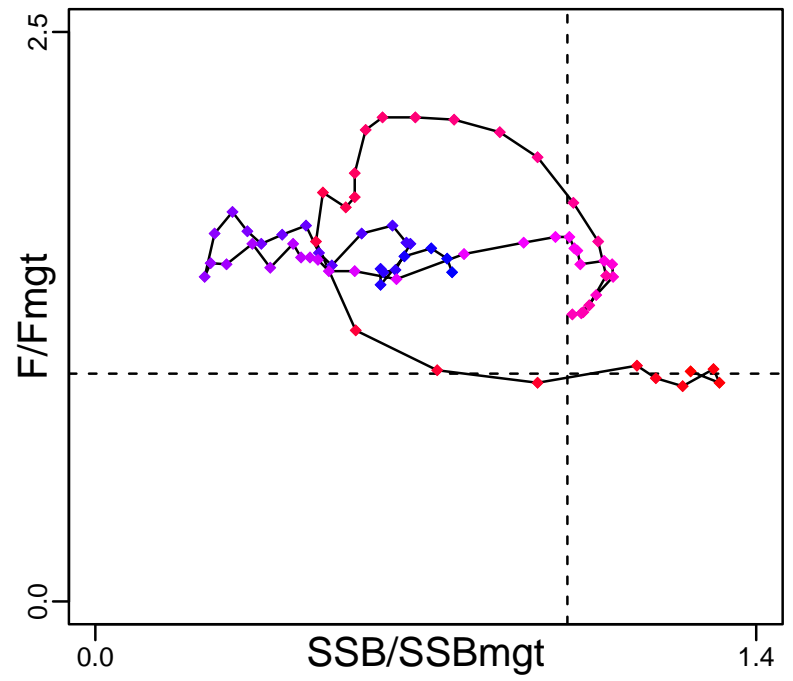
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2020	5600	-	-
TN	-	-	-	-	-
R	R-E00	2020	24,700,000	-	1
F	F-1/yr	2020	0.202	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	2800		
TL	TL-MT	2020	2580		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.179		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.01		
ER/ERmgt	-	-	-		

Witch flounder ICES 3a-4-7d [WITFLOUNIIIa-IV-VIId]

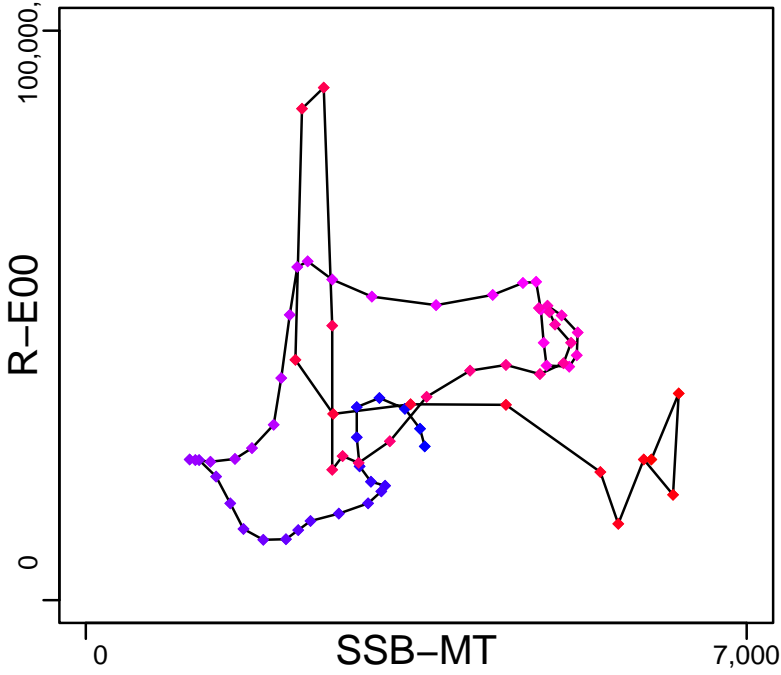
Kobe MSYpref (1950-2020-ICESIMP2021-2)



Kobe MGTpref (1950-2020-ICESIMP2021-2)



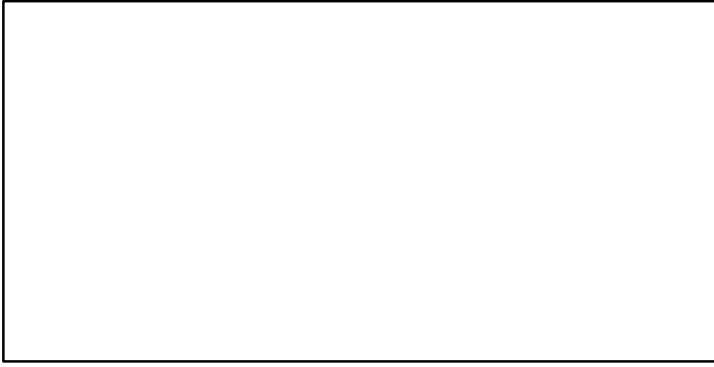
Spawner Recruit (1950-2020-ICESIMP2021-2)



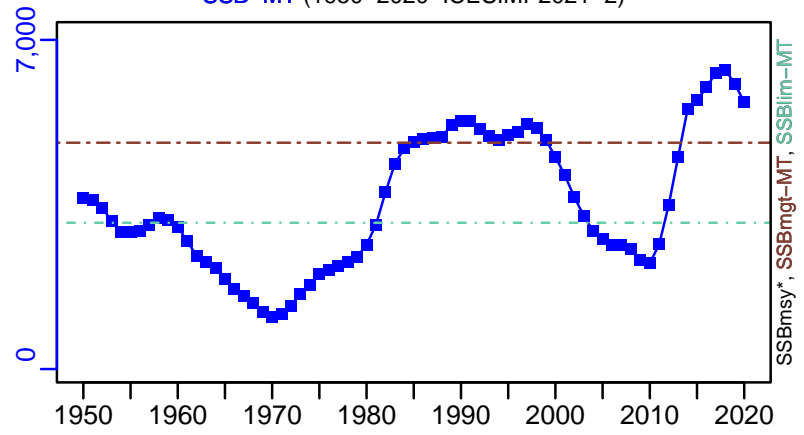
◆ Start Year ◆ End Year * No Data

Witch flounder ICES 3a-4-7d [WITFLOUNIIIa-IV-VIId]

TB*



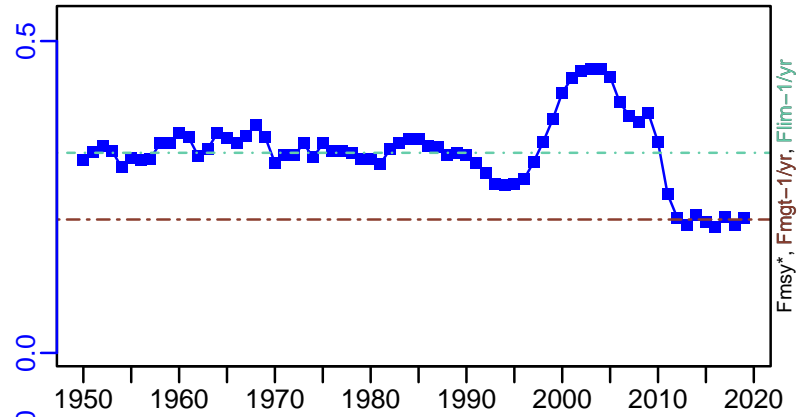
SSB-MT (1950-2020-ICESIMP2021-2)



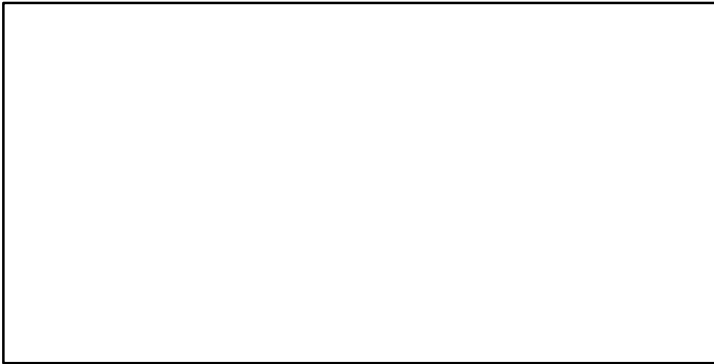
TN *



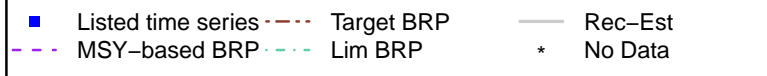
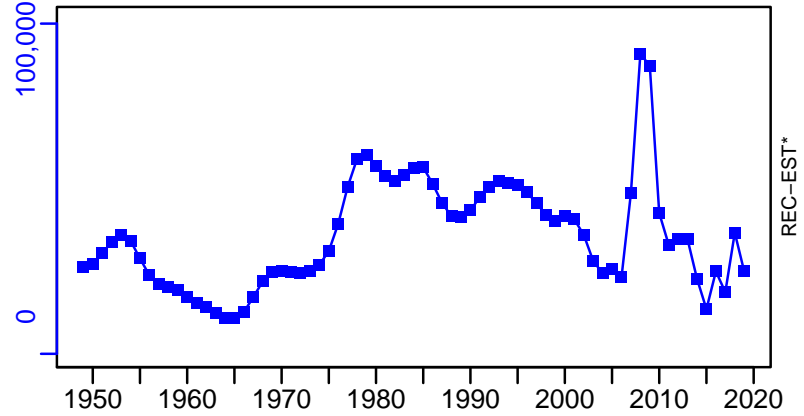
F-1/yr (1950-2020-ICESIMP2021-2)



ER*

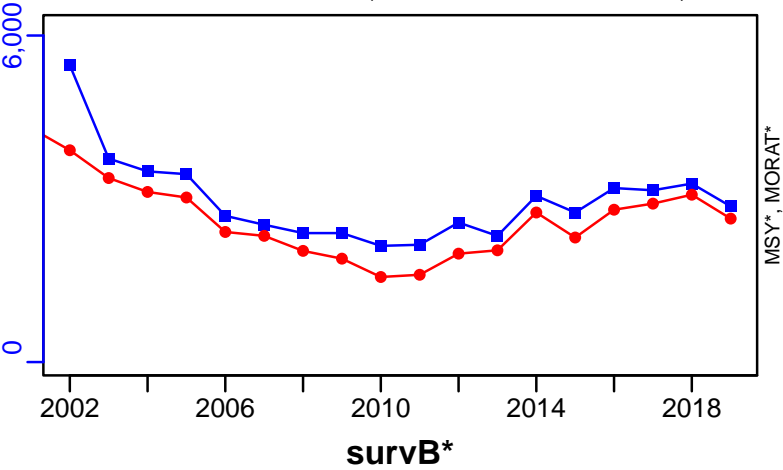


R-E00 (1950-2020-ICESIMP2021-2)

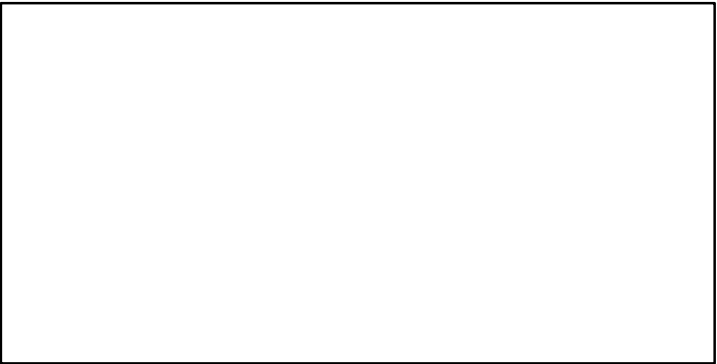


Witch flounder ICES 3a–4–7d [WITFLOUNIIIa–IV–VIIId]

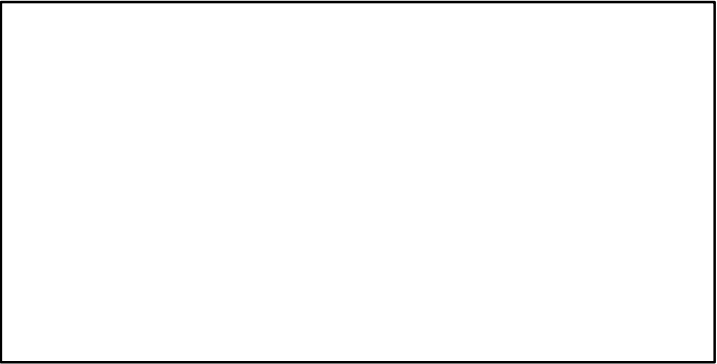
TC–MT, TL–MT, RecC* (1950–2020–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



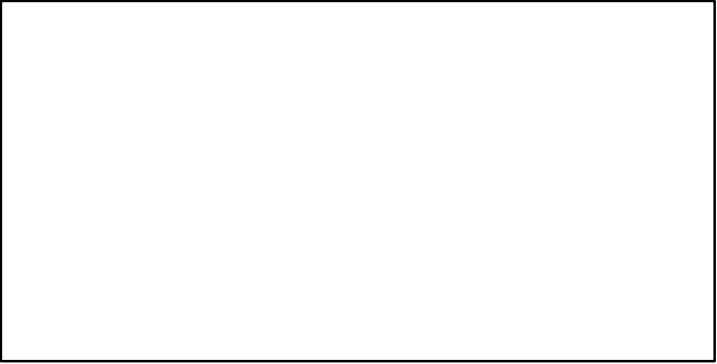
CPUE*



EFFORT*



CdivMSY*



Willow flounder North Pacific [WLFLOUNNPAC]

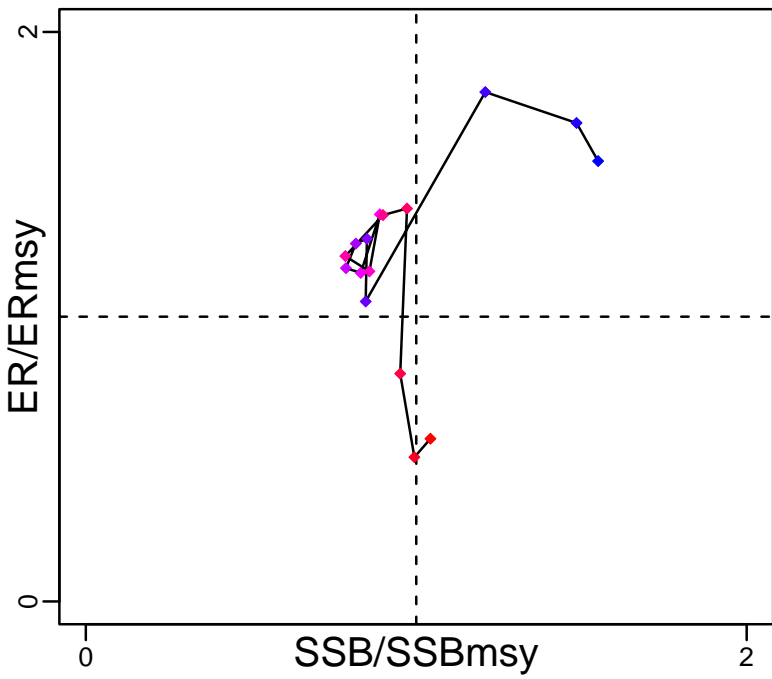
Metadata	
Scientific Name	Tanakius kitaharae
Current Assess ID	FAFRFJ-WLFLOUNNPAC-1997-2013-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	695
SSBmsy	SSBmsy-MT	2013	536
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.208
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	145
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

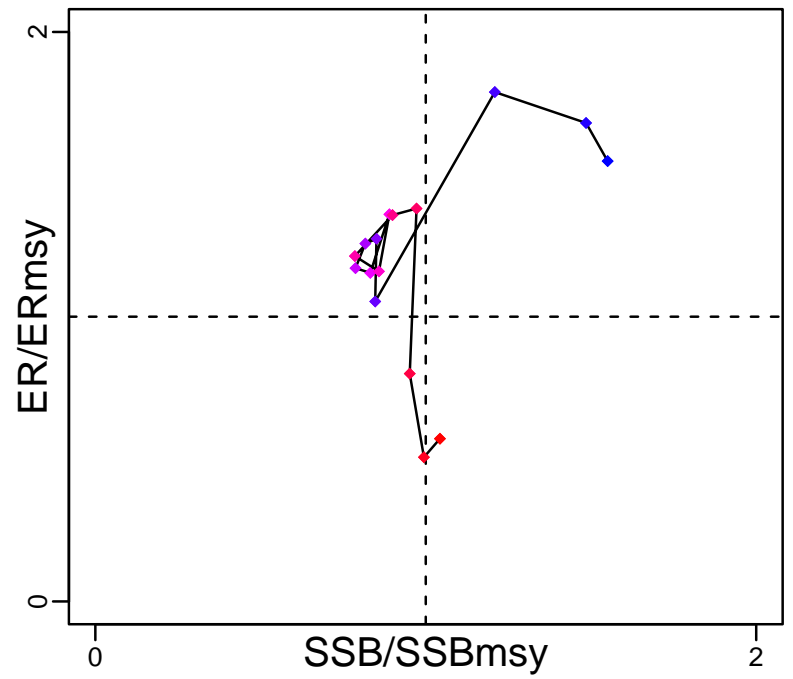
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	673	-	1
SSB	SSB-MT	2013	559	Both	3
TN	-	-	-	-	-
R	R-E00	2013	2,270,000	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.119	-	-
TC	TC-MT	2013	80		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.968		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.043		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.571		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Willowy flounder North Pacific [WLFLOUNNPAC]

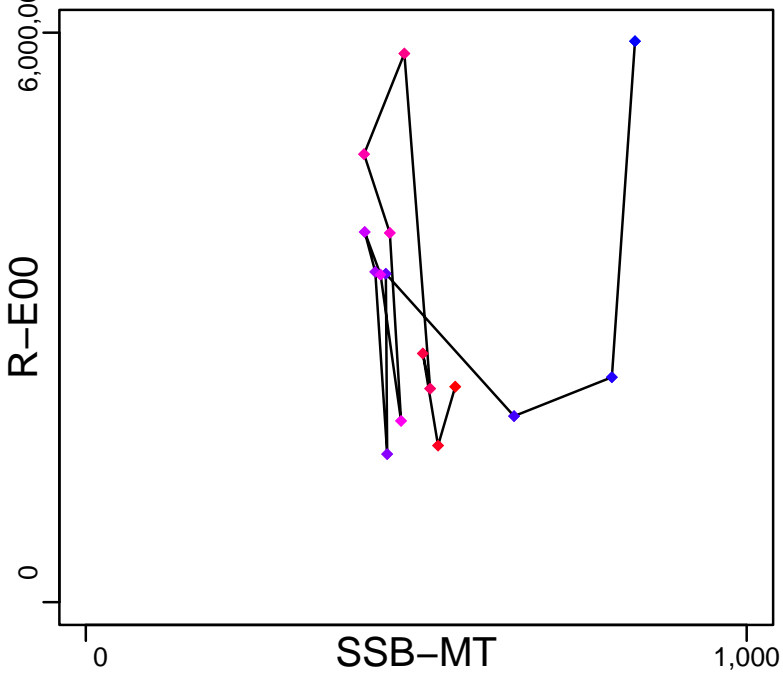
Kobe MSYpref (1997–2013–JPNIMP2016)



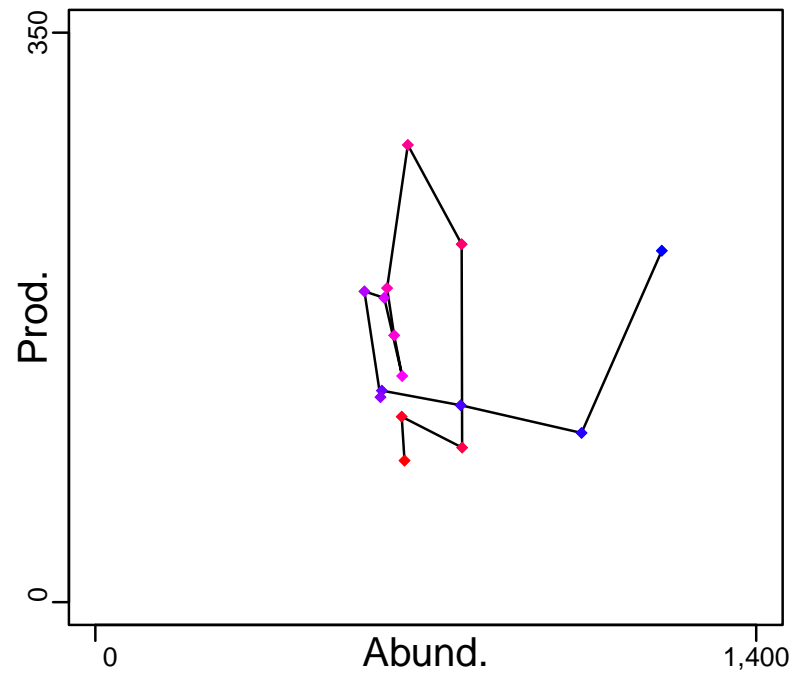
Kobe MGTpref (1997–2013–JPNIMP2016)



Spawner Recruit (1997–2013–JPNIMP2016)



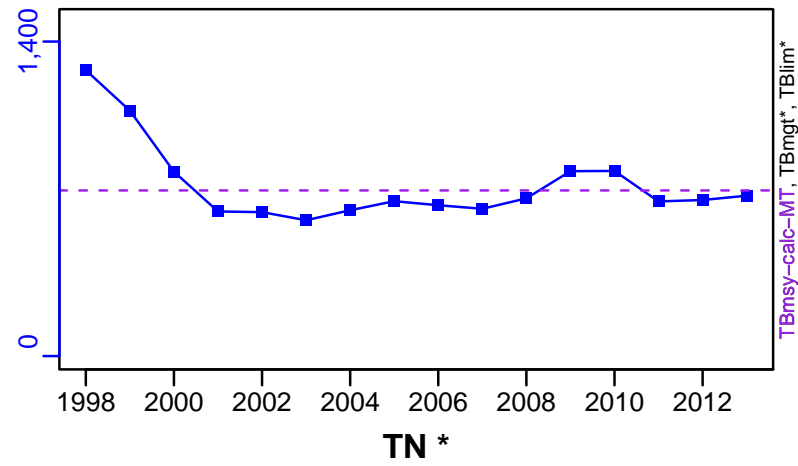
Production (1997–2013–JPNIMP2016)



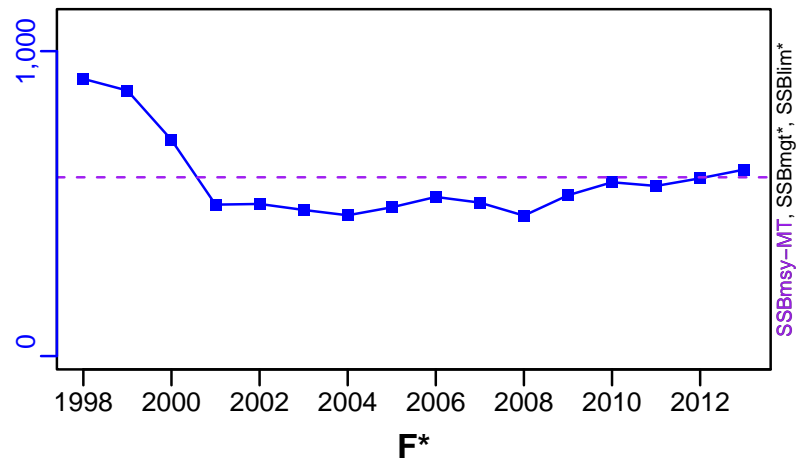
◆ Start Year ◆ End Year * No Data

Willow flounder North Pacific [WLFLOUNNPAC]

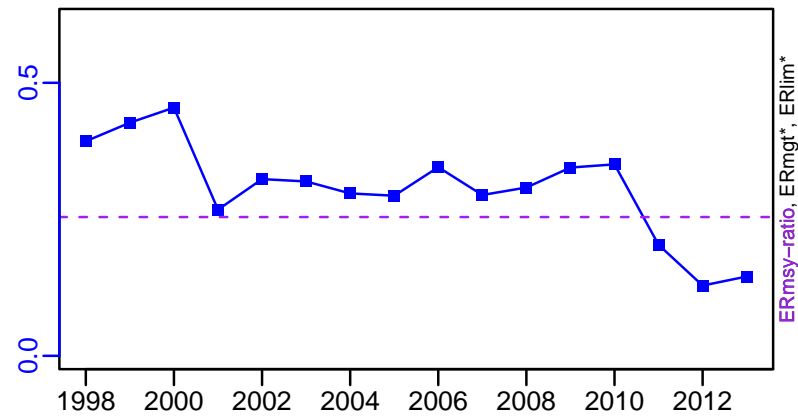
TB-MT (1997-2013-JPNIMP2016)



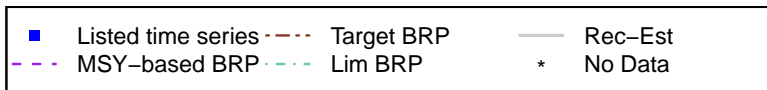
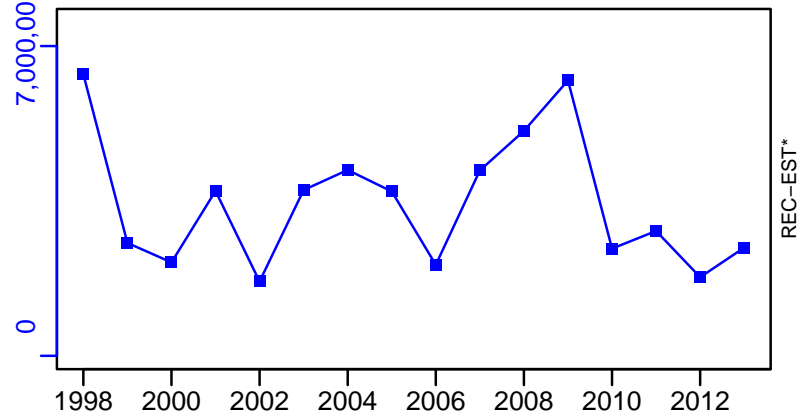
SSB-MT (1997-2013-JPNIMP2016)



ER-calc-ratio (1997-2013-JPNIMP2016)

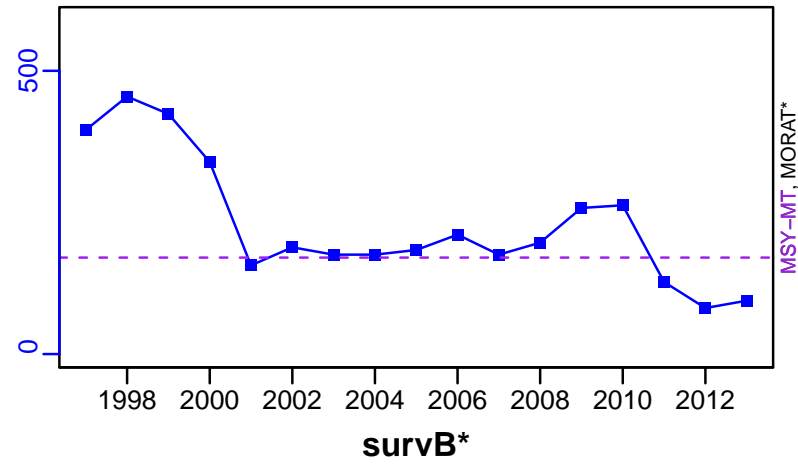


R-E00 (1997-2013-JPNIMP2016)

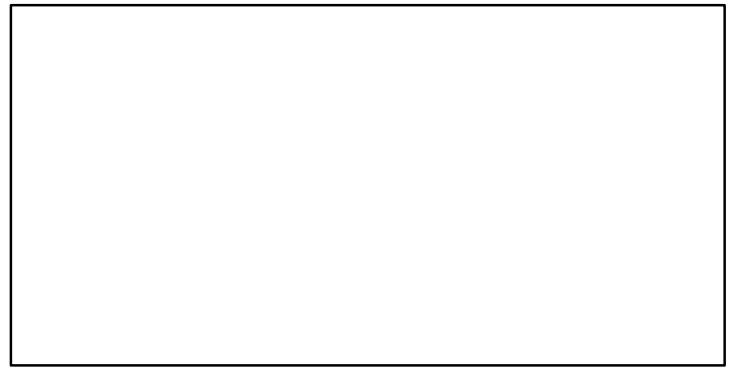


Willowy flounder North Pacific [WLFLOUNNPAC]

TC-MT, TL*, RecC* (1997-2013-JPNIMP2016)



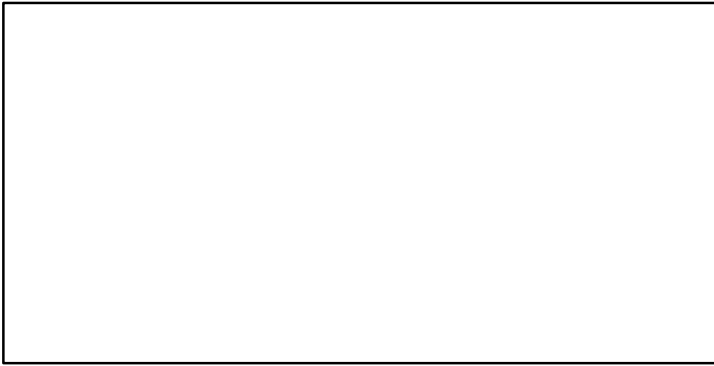
TAC*, Cpair*, Cadv*



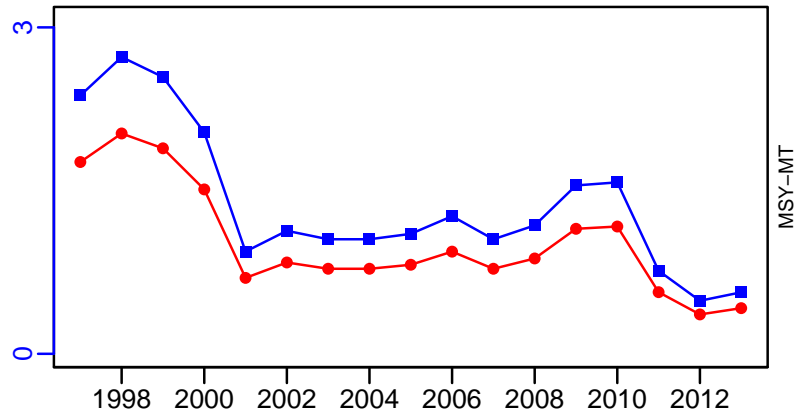
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1997-2013-JPNIMP2016)



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

Yellowtail flounder Grand Banks [YELL3LNO]

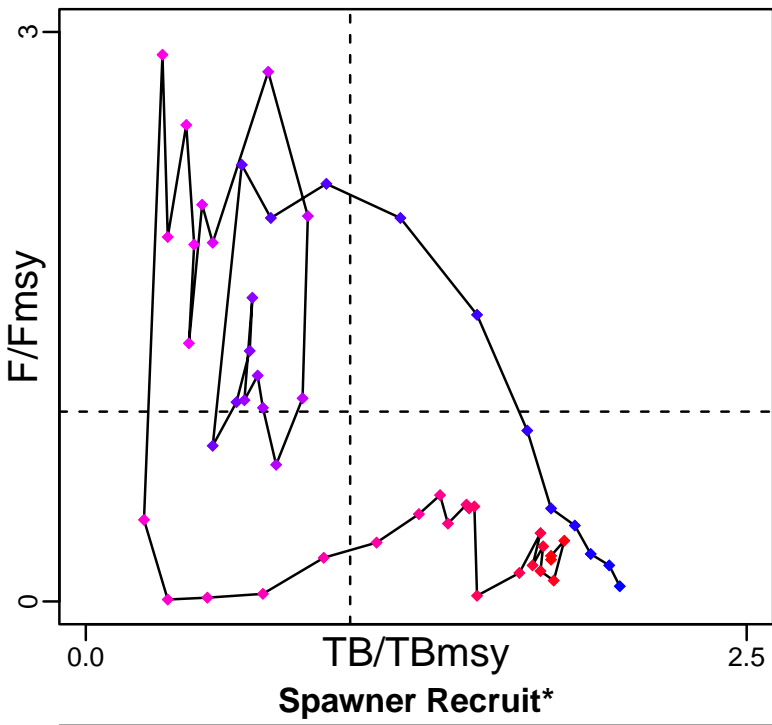
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NAFO-SC-YELL3LNO-1960-2015-WATSON
Area	Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2009, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2009	73,580
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2009	0.26
ERmsy	ERmsy-ratio	2009	0.256
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	18,730
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

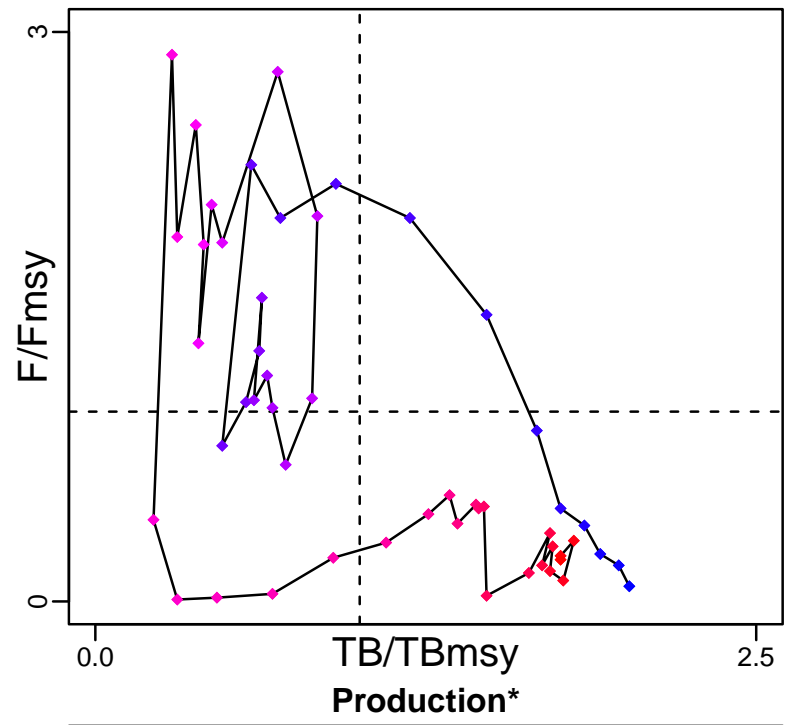
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	120,000	-	-
SSB	SSB-MT	2015	162,000	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.126	-	-
ER	ER-ratio	2009	0.039	-	-
TC	TC-MT	2015	7990		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.76		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2015	0.22		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.151		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Grand Banks [YELL3LNO]

Kobe MSYpref (1960–2015–WATSON)



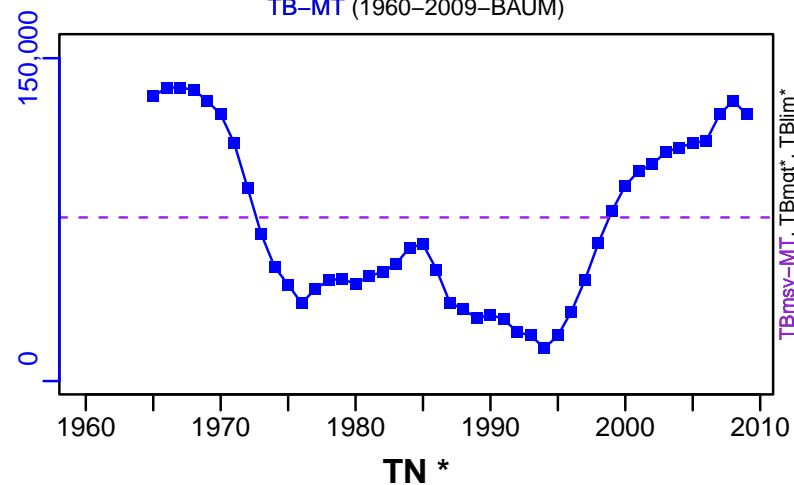
Kobe MGTpref (1960–2015–WATSON)



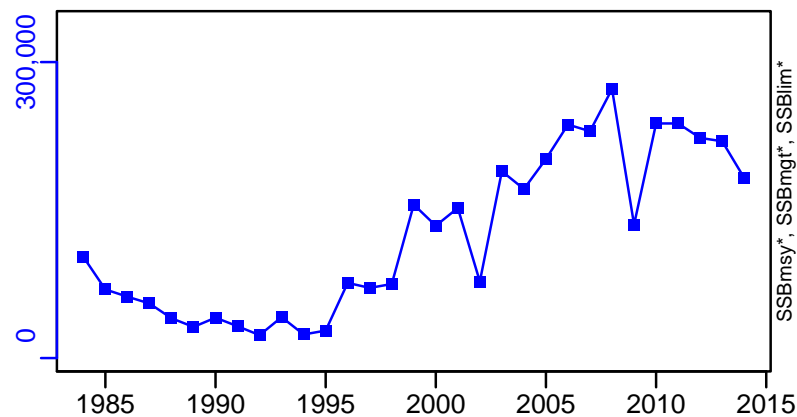
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Grand Banks [YELL3LNO]

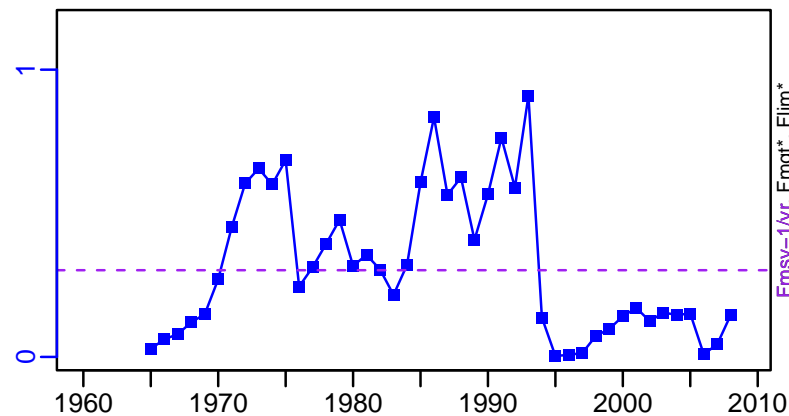
TB-MT (1960–2009–BAUM)



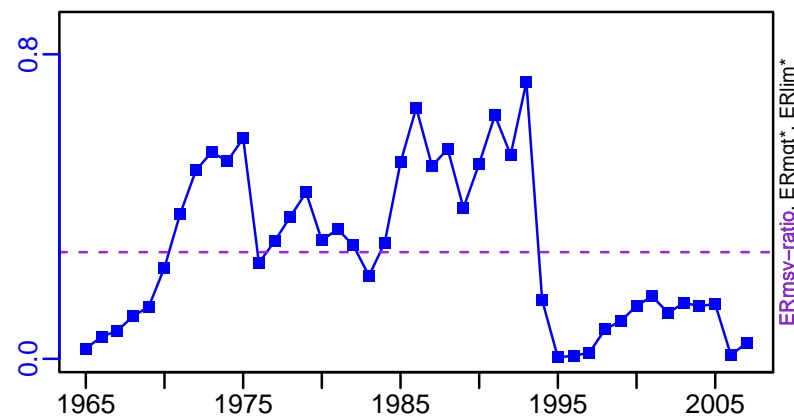
SSB-MT (1960–2015–WATSON)



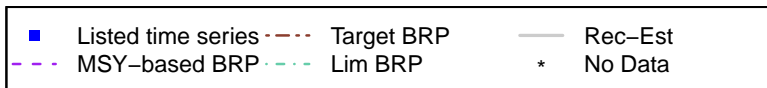
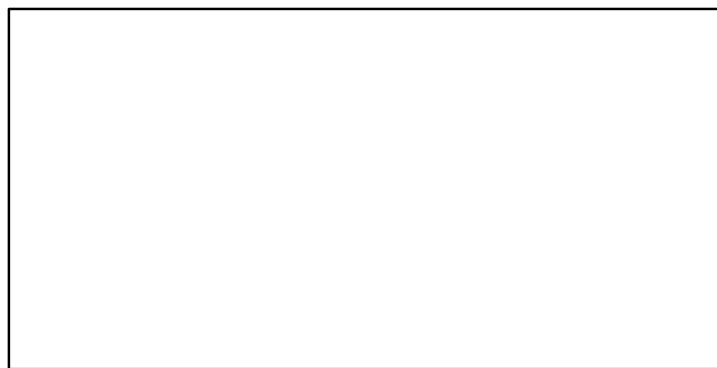
F-1/yr (1960–2009–BAUM)



ER-ratio (1960–2009–BAUM)

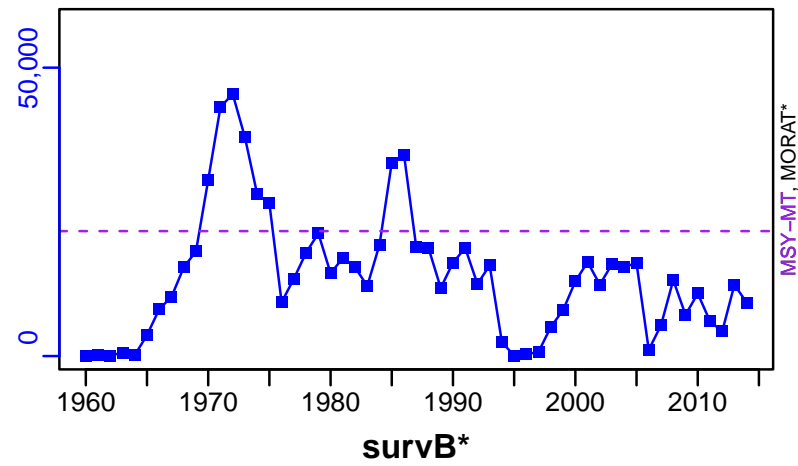


Recruits*

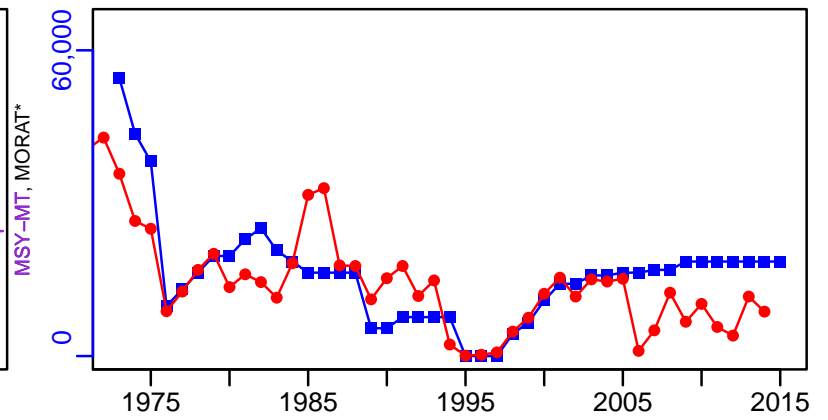


Yellowtail flounder Grand Banks [YELL3LNO]

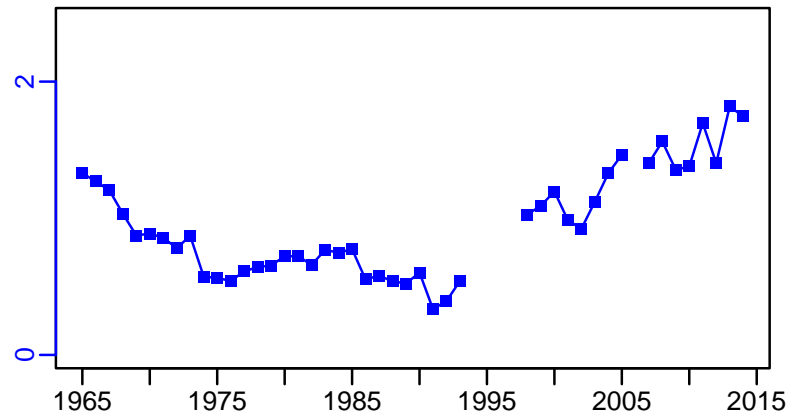
TC-MT, TL*, RecC* (1960-2015-WATSON)



TAC-MT, Cpair-MT, Cadv* (1960-2015-WATSON)



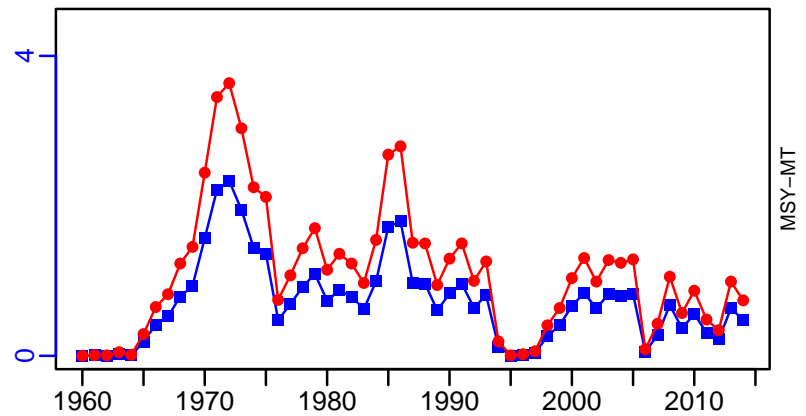
CPUE-index (1960-2015-WATSON)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1960-2015-WATSON)



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

Yellowtail flounder Southern Gulf of St. Lawrence [YELL4T]

Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	DFO-SG-YELL4T-1960-2016-ASHBROOK
Area	Southern Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	91,980	-	1-7+
TN	TN-E00	2016	351,648,350	-	5-Apr
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.002	-	4
TC	-	-	-		
TL	TL-MT	2016	95		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



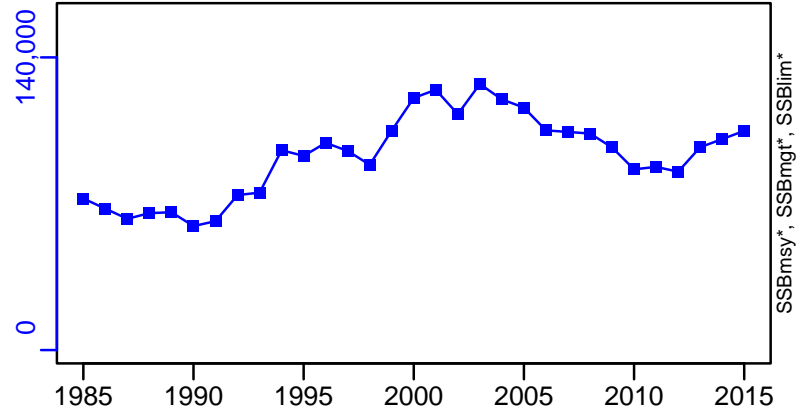
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Southern Gulf of St. Lawrence [YELL4T]

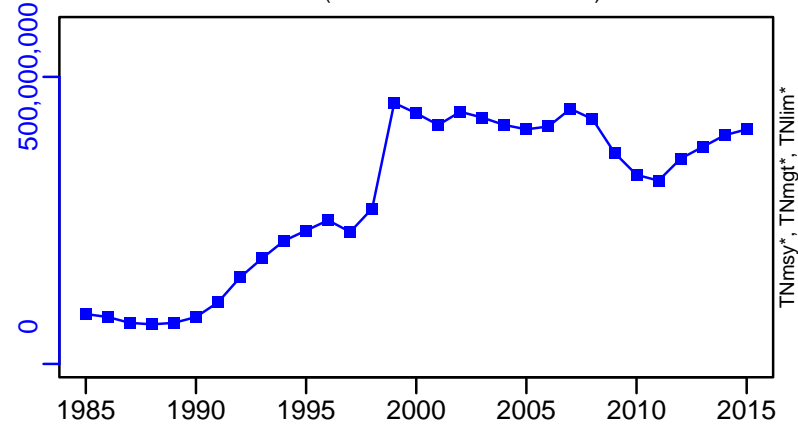
TB*



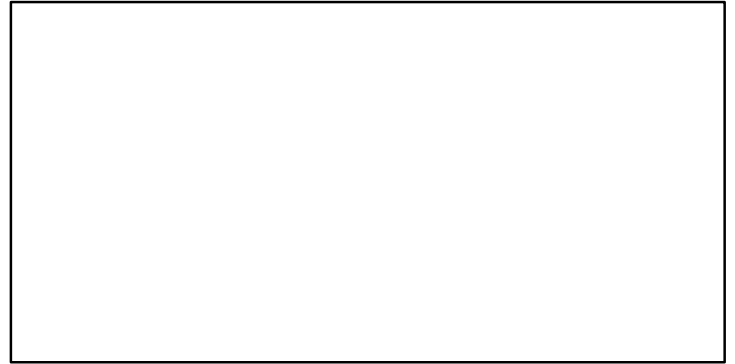
SSB-MT (1960–2016–ASHBROOK)



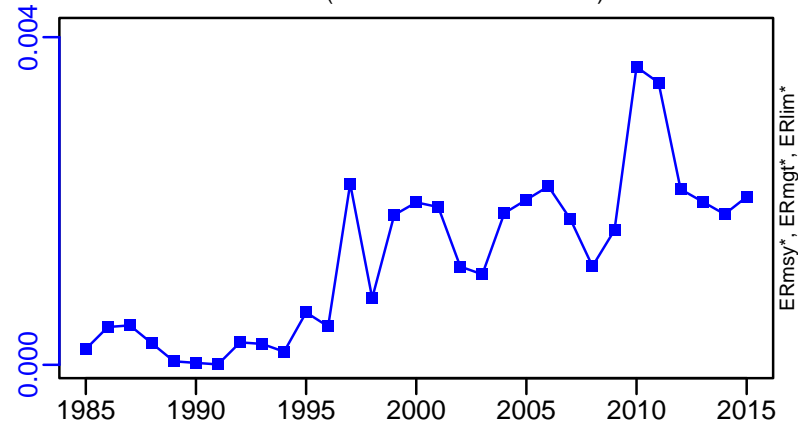
TN-E00 (1960–2016–ASHBROOK)



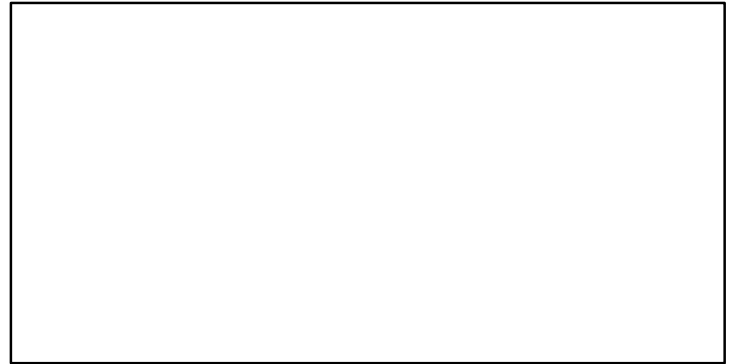
F*



ER-ratio (1960–2016–ASHBROOK)



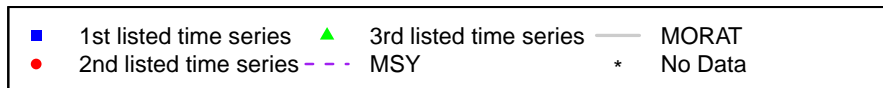
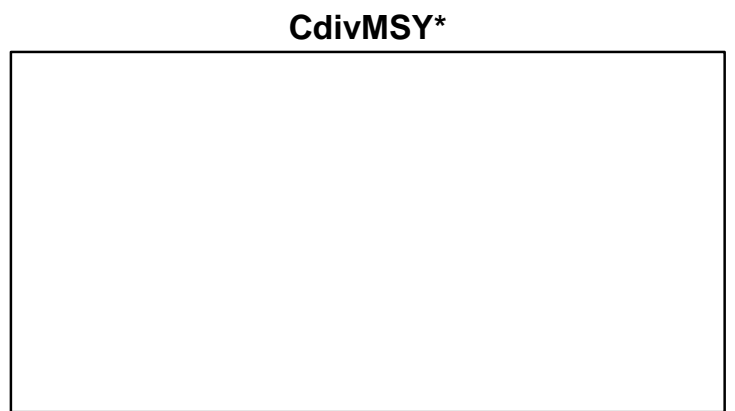
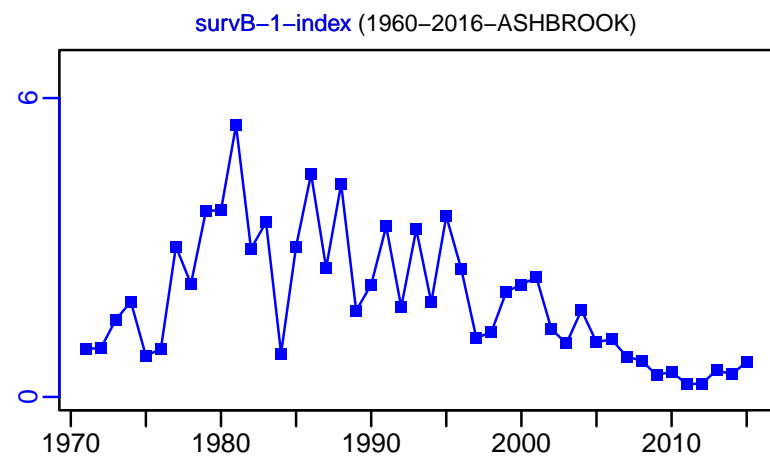
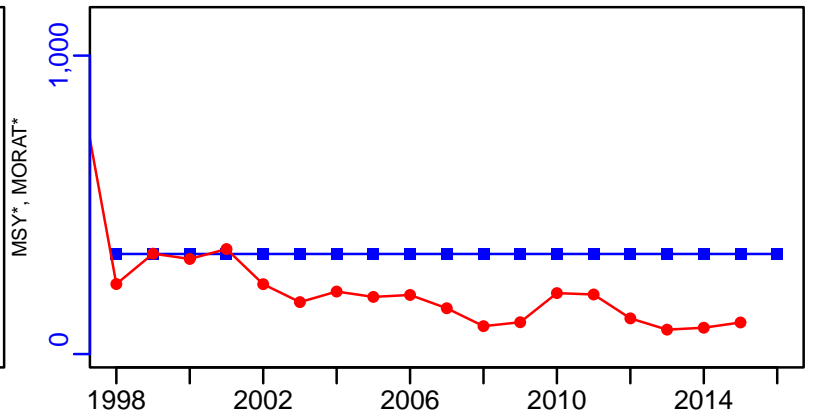
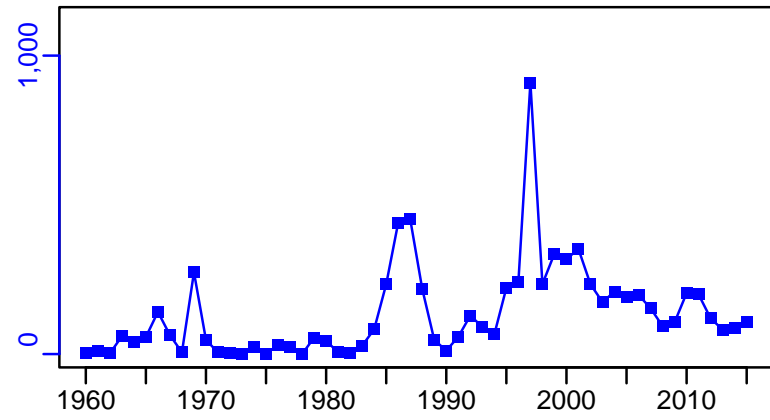
Recruits*



Yellowtail flounder Southern Gulf of St. Lawrence [YELL4T]

TL-MT, TC*, RecC* (1960–2016–ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1960–2016–ASHBROOK)



Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

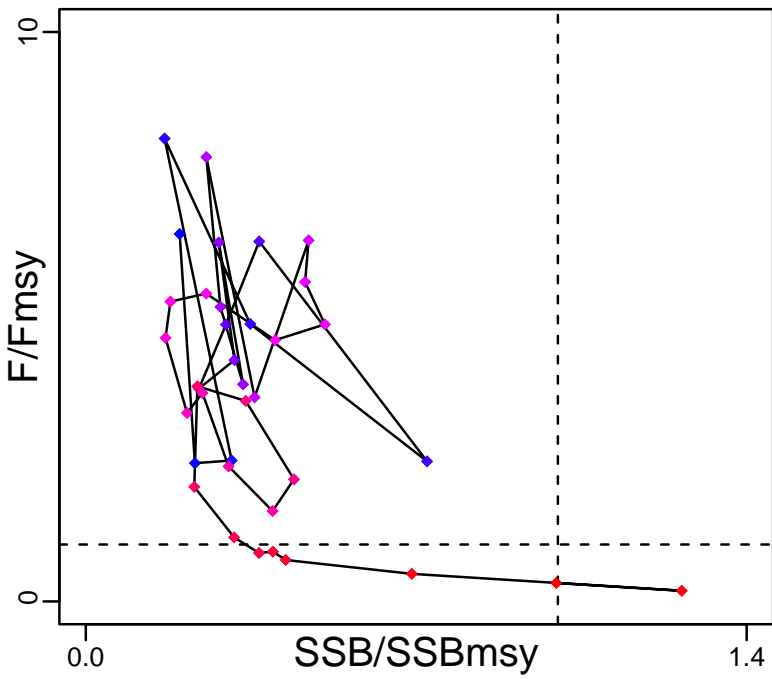
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLCCODGOM-1984-2021-SISIMP2024
Area	Cape Cod / Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2019, 2016, 2021, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	3068
Fmsy	Fmsy-1/yr	2021	0.32
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	1008
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	1534
Flim	Flim-1/yr	2019	0.32
ERlim	-	-	-

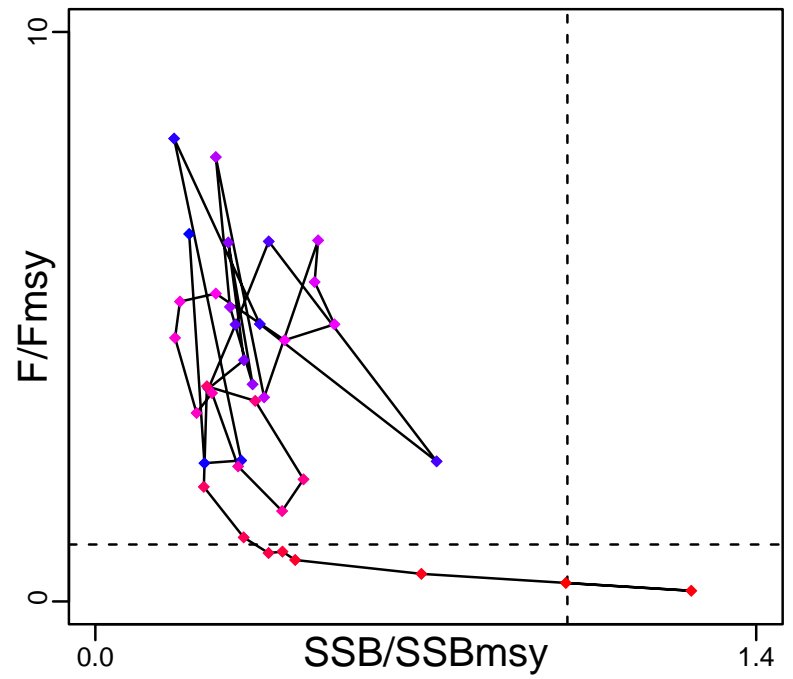
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	3058	-	-
TN	TN-E00	2008	16,900,000	-	-
R	R-E00	2021	10,413	-	1
F	F-1/yr	2021	0.104	-	-
ER	ER-ratio	2008	0.142	-	-
TC	TC-MT	2021	365		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.997		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.325		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

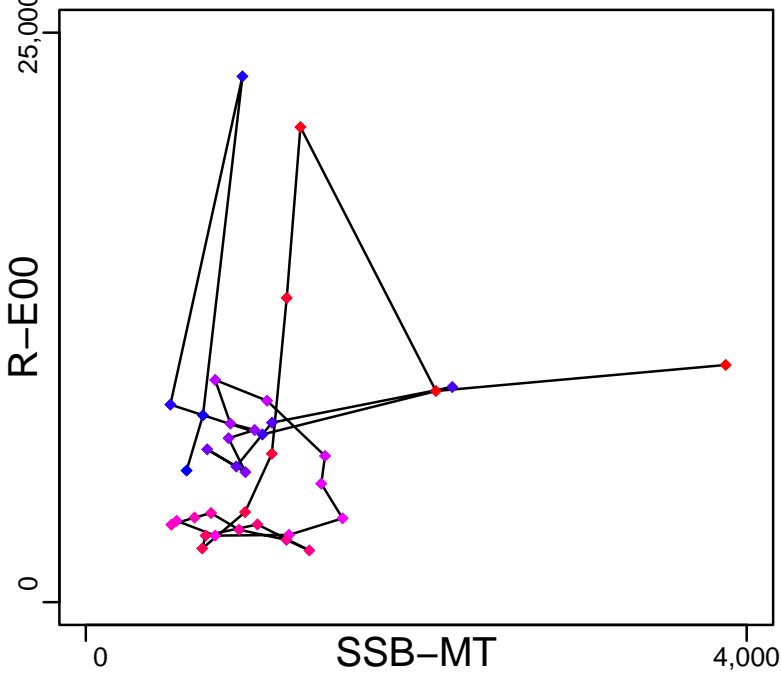
Kobe MSY_{pref} (1984–2021–SISIMP2024)



Kobe MGT_{pref} (1984–2021–SISIMP2024)



Spawner Recruit (1984–2021–SISIMP2024)



Production*



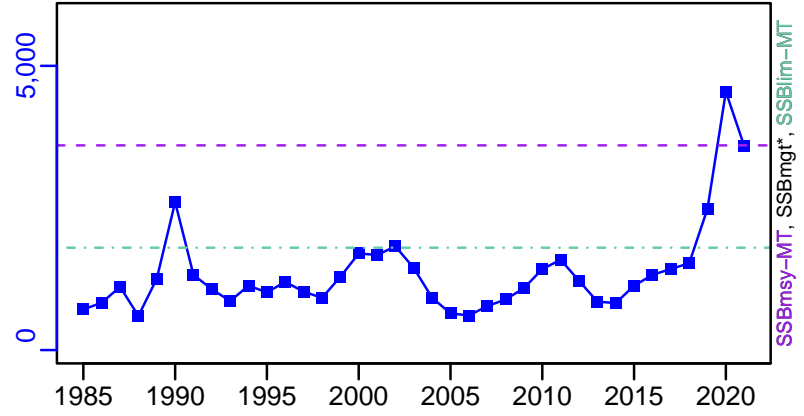
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

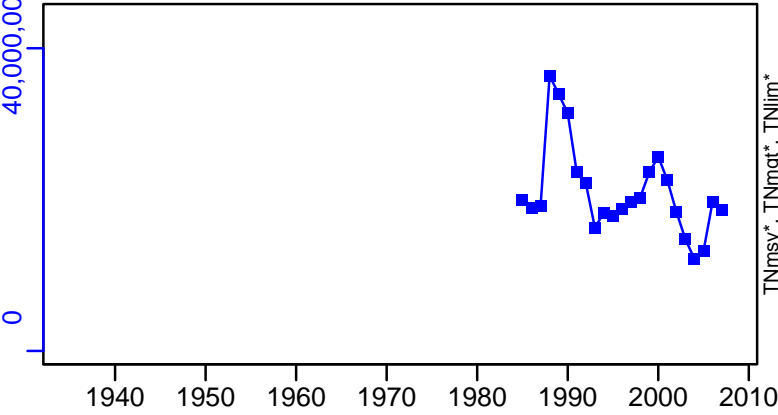
TB*



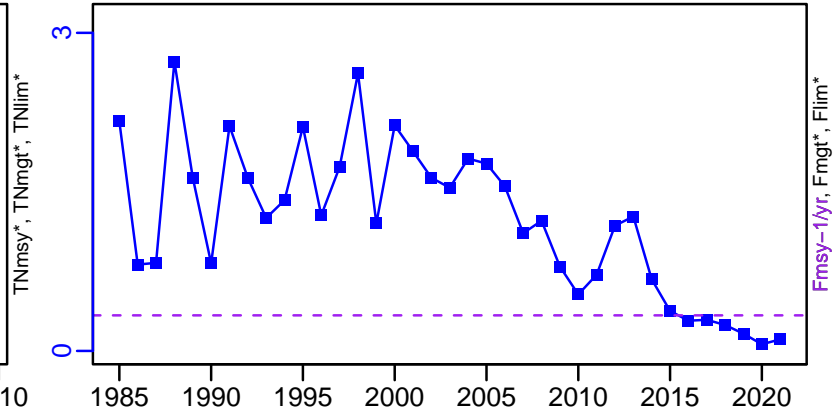
SSB-MT (1984–2021–SISIMP2024)



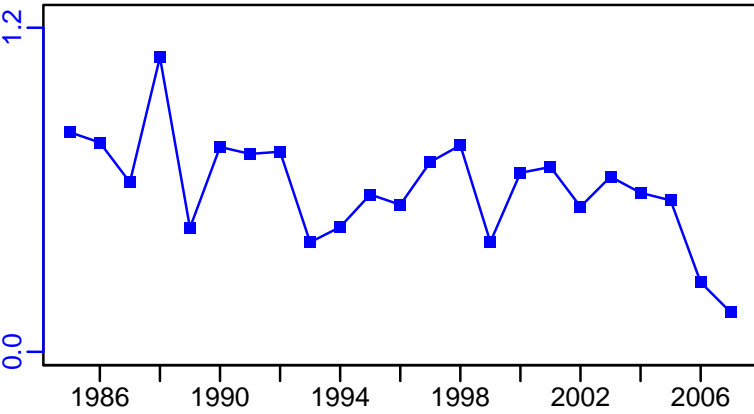
TN-E00 (1935–2008–LEGAULT)



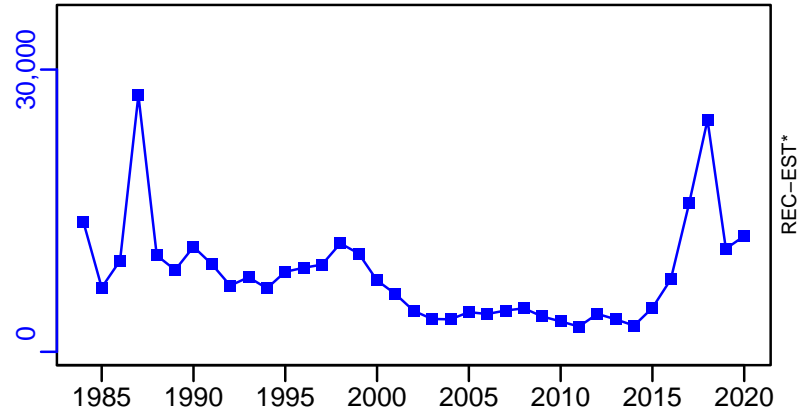
F-1/yr (1984–2021–SISIMP2024)



ER-ratio (1935–2008–LEGAULT)

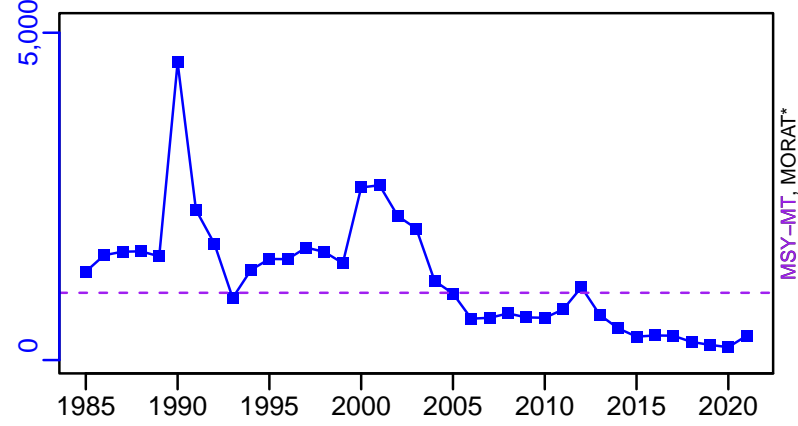


R-E00 (1984–2021–SISIMP2024)

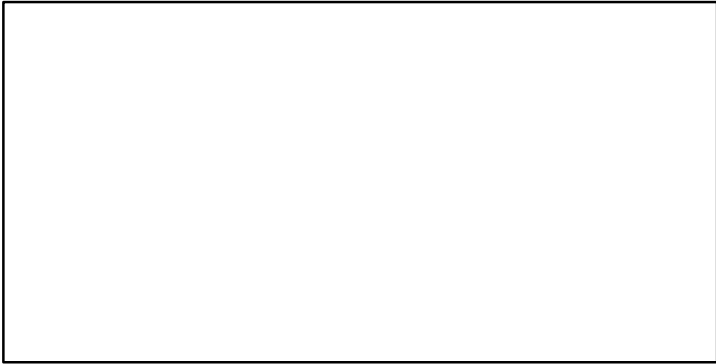


Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

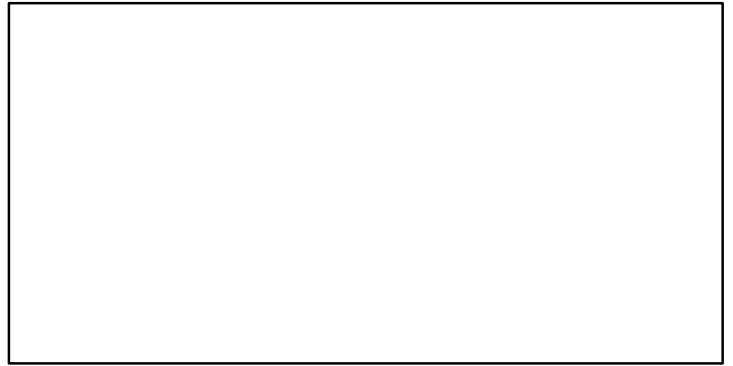
TC-MT, TL*, RecC* (1984–2021–SISIMP2024)



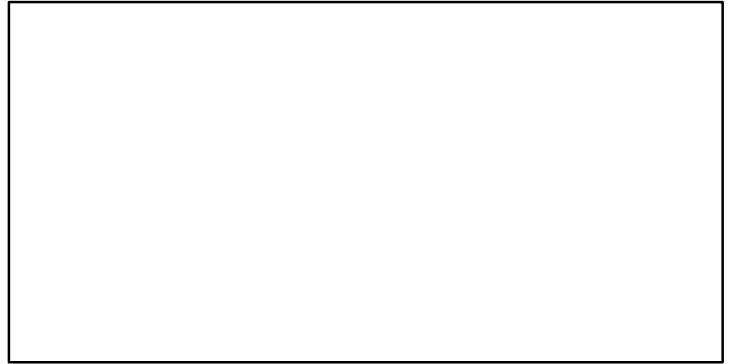
survB*



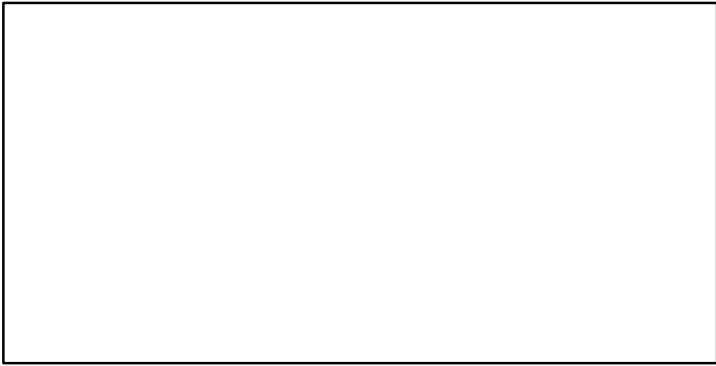
TAC*, Cpair*, Cadv*



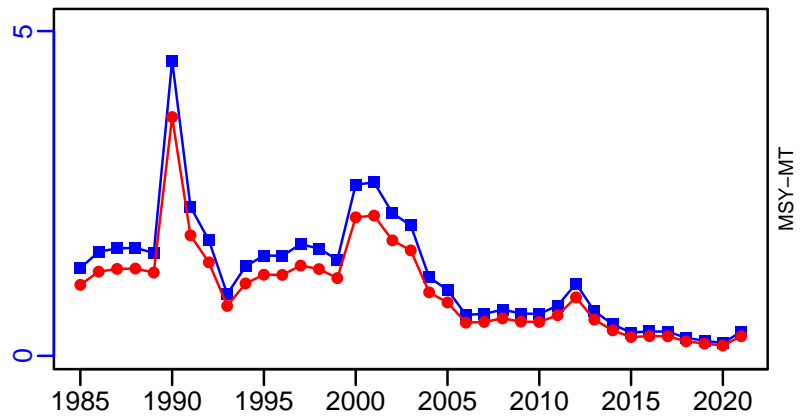
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1984–2021–SISIMP2024)



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

Yellowtail flounder Georges Bank [YELLGB]

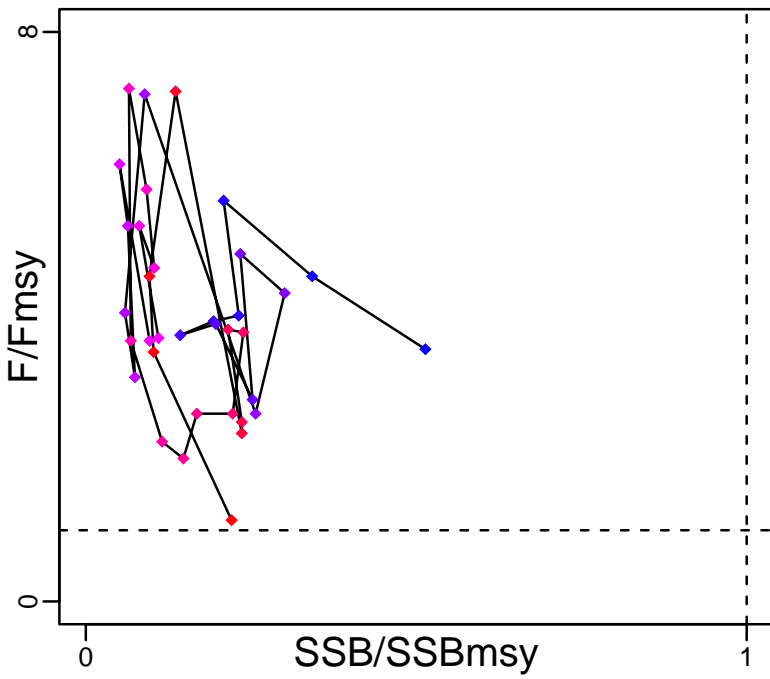
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLGB-1935-2021-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2015, 2016, 2017, 2017, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	43,200
Fmsy	Fmsy-pr-1/yr	2008	0.254
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2008	9400
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

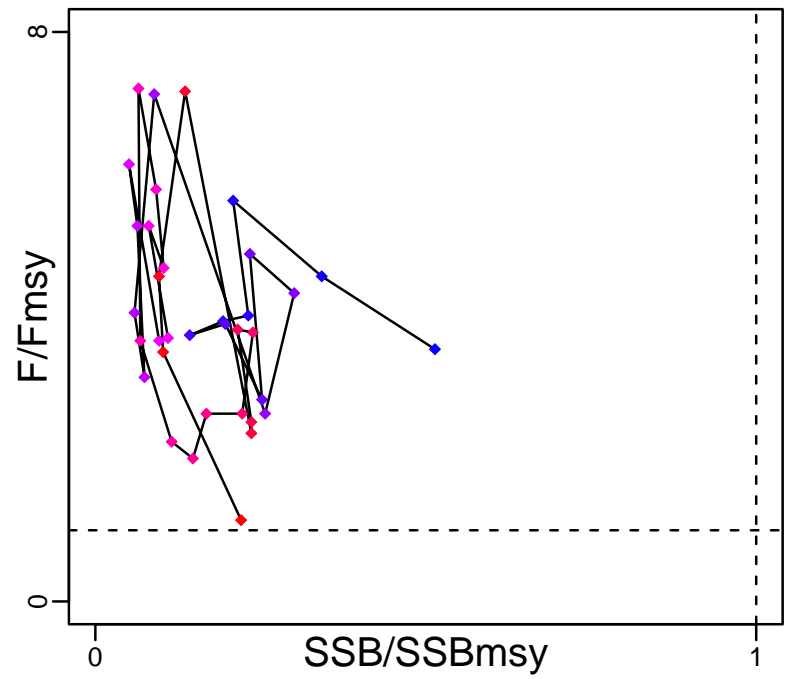
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	20,800	-	-
SSB	SSB-MT	2008	9530	-	2+
TN	-	-	-	-	-
R	R-E00	2008	19,100,000	-	1
F	F-1/yr	2008	0.29	-	4+
ER	ER-ratio	2008	0.118	-	-
TC	TC-MT	2021	14		
TL	TL-MT	2015	71		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.221		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2008	1.142		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Georges Bank [YELLGB]

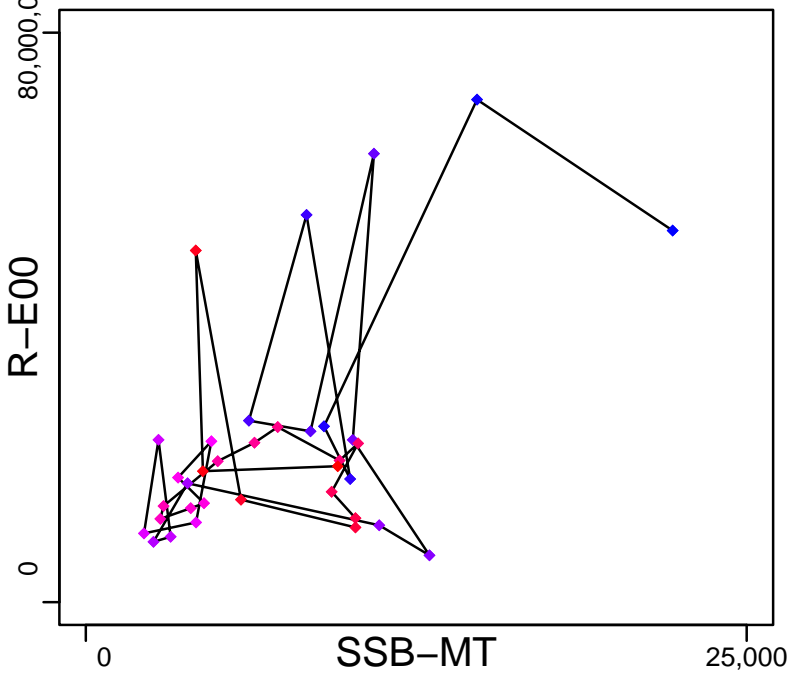
Kobe MSYpref (1935–2008–BAUM)



Kobe MGTpref (1935–2008–BAUM)



Spawner Recruit (1935–2008–BAUM)



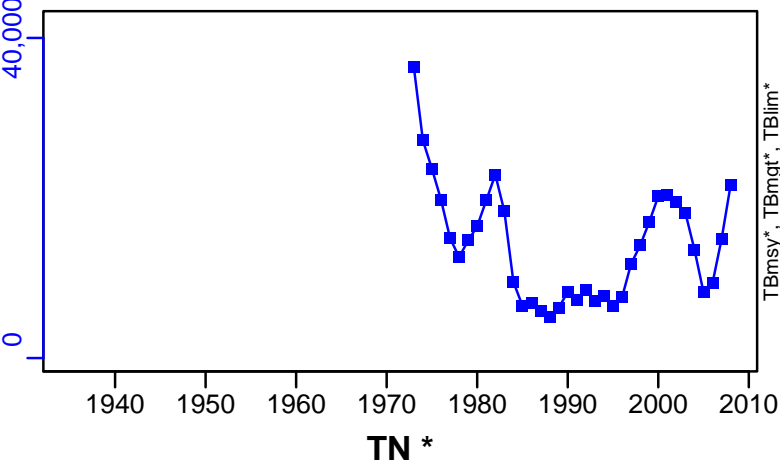
Production*



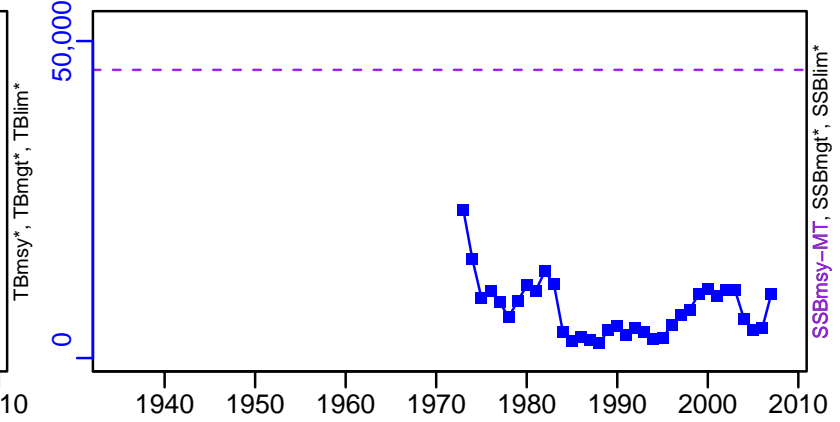
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Georges Bank [YELLGB]

TB-MT (1935-2008-BAUM)



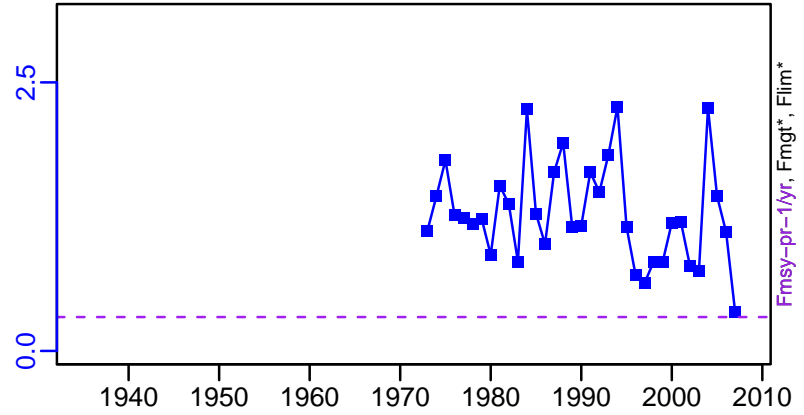
SSB-MT (1935-2008-BAUM)



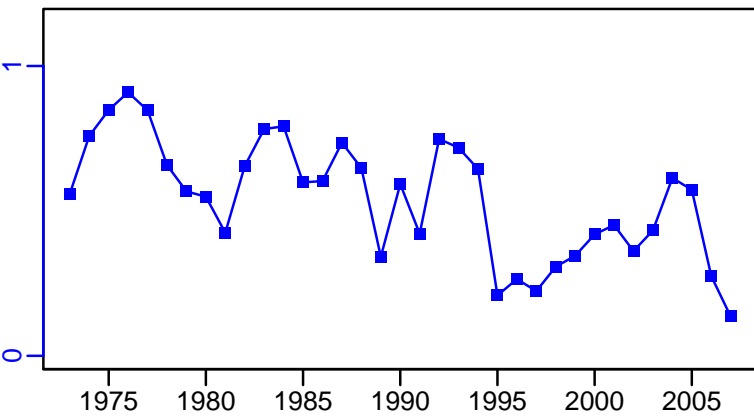
TN *



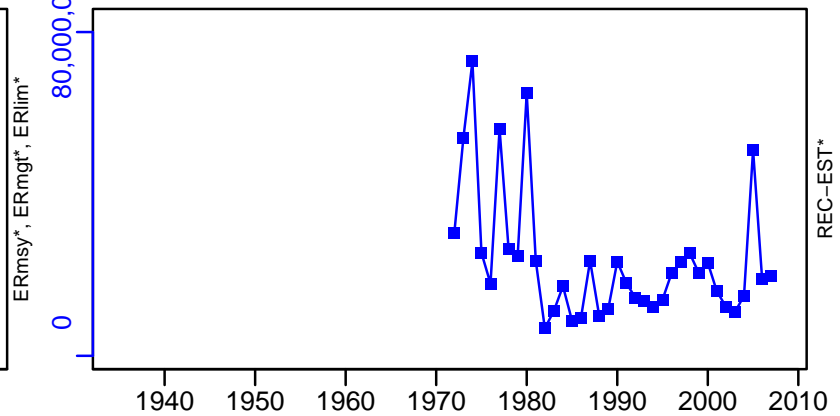
F-1/yr (1935-2008-BAUM)



ER-ratio (1935-2008-BAUM)



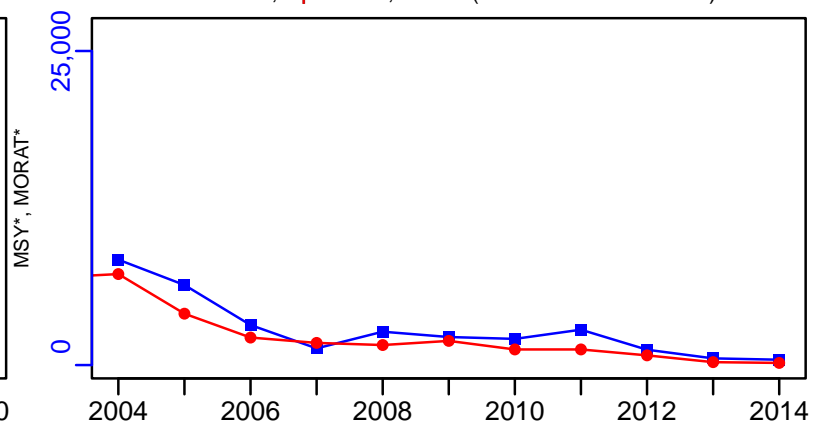
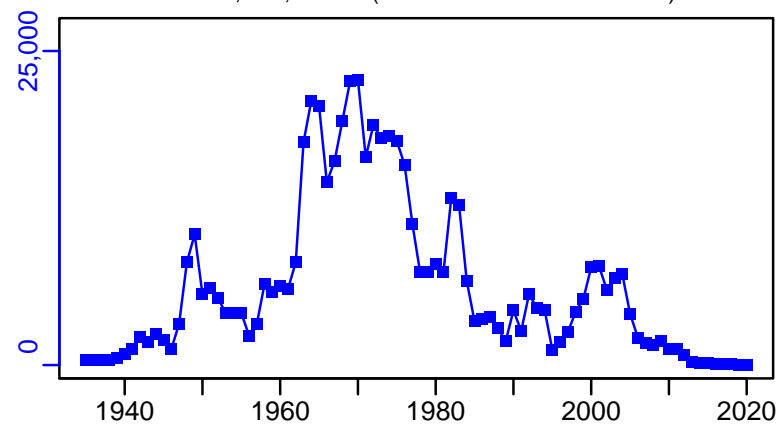
R-E00 (1935-2008-BAUM)



Yellowtail flounder Georges Bank [YELLGB]

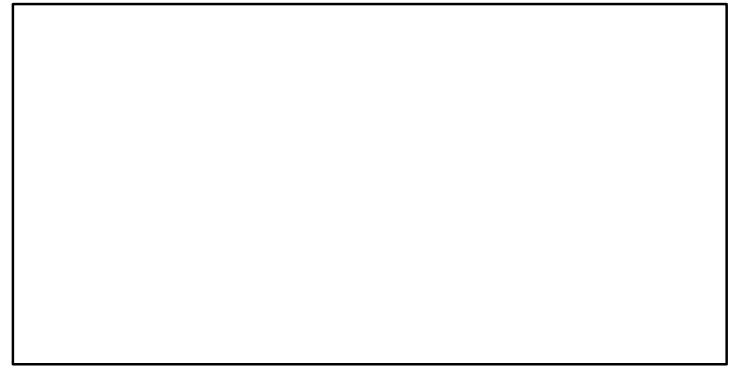
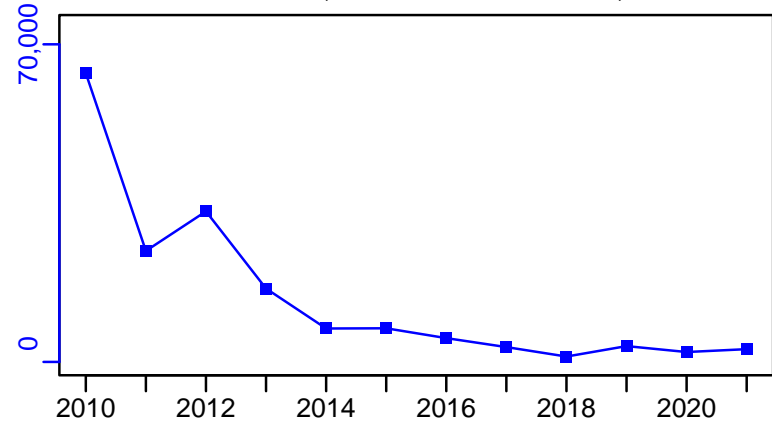
TC-MT, TL*, RecC* (1935-2021-SISIMP2021-2)

TAC-MT, Cpair-MT, Cadv* (1935-2015-WATSON)



survB-MT (1935-2021-SISIMP2021-2)

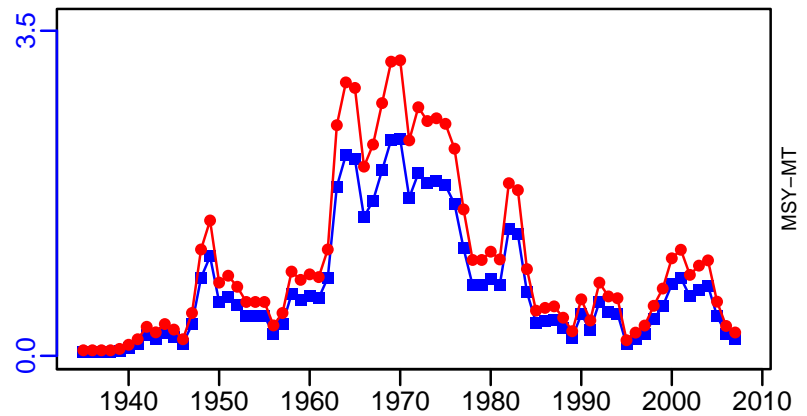
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1935-2008-BAUM)



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

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

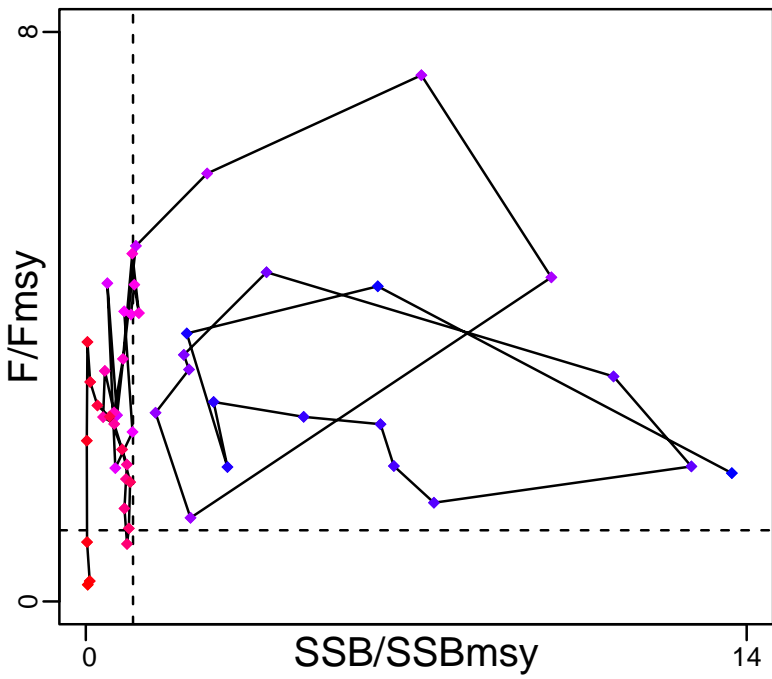
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLSNEMATL-1935-2022-SISIMP2024
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2018, 2022, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	1715
Fmsy	Fmsy-1/yr	2022	0.349
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	461
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	858
Flim	Flim-1/yr	2018	0.355
ERlim	-	-	-

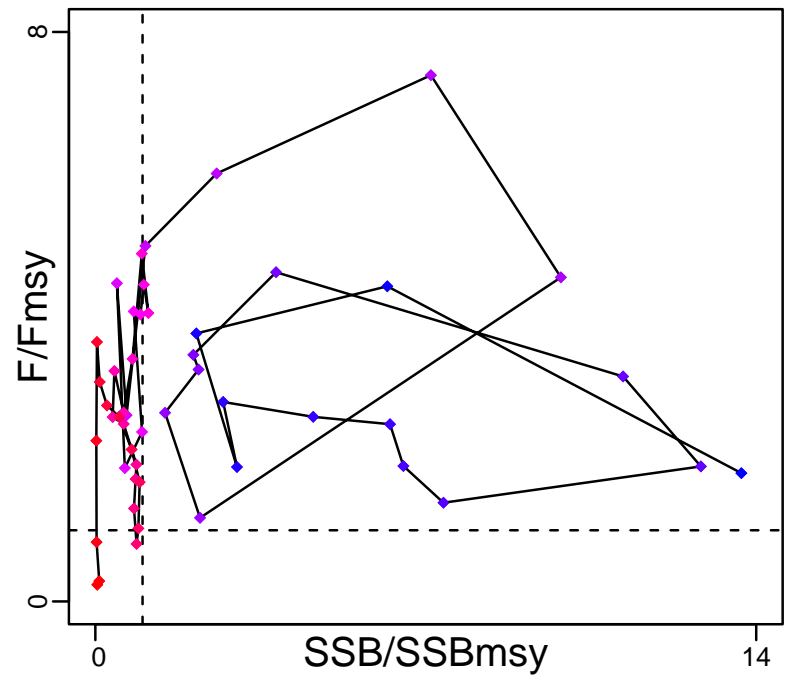
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	5310	-	-
SSB	SSB-MT	2022	174	-	-
TN	-	-	-	-	-
R	R-E00	2022	4396	-	1
F	F-1/yr	2022	0.082	-	-
ER	ER-calc-ratio	2011	0.073	-	-
TC	TC-MT	2022	5		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.101		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.235		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

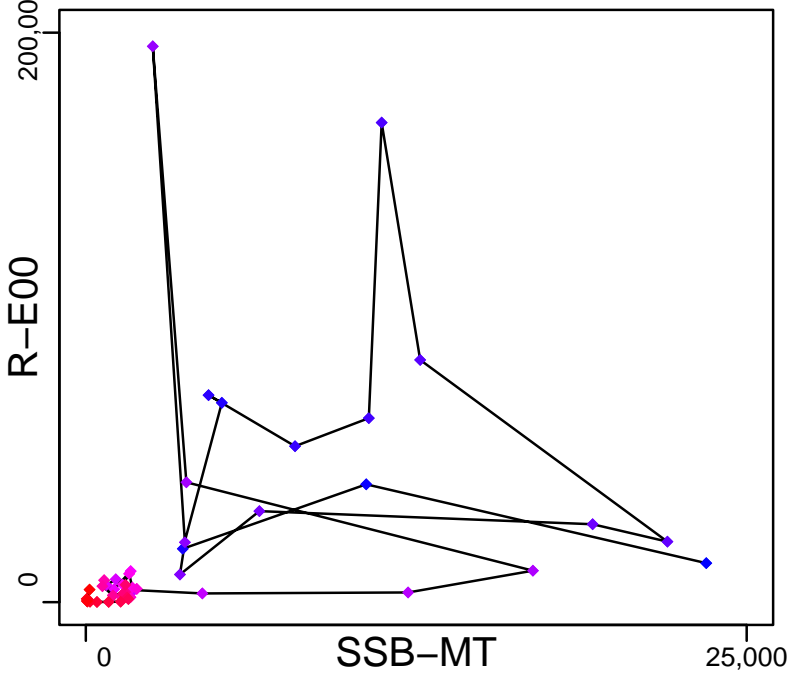
Kobe MSYpref (1935–2022–SISIMP2024)



Kobe MGTpref (1935–2022–SISIMP2024)



Spawner Recruit (1935–2022–SISIMP2024)



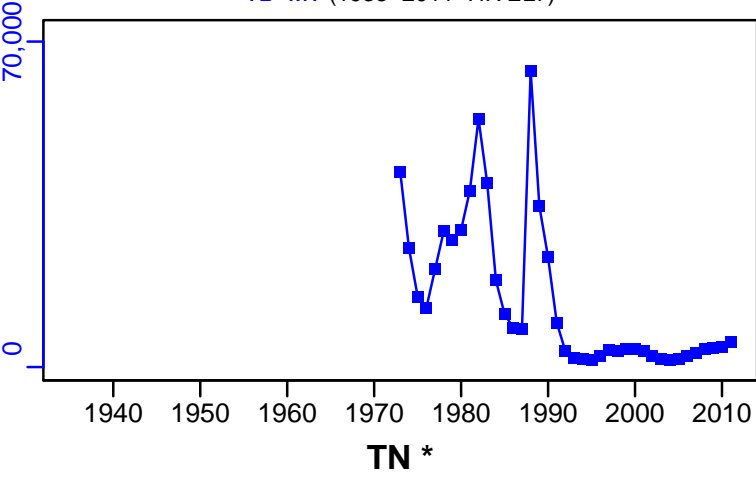
Production*



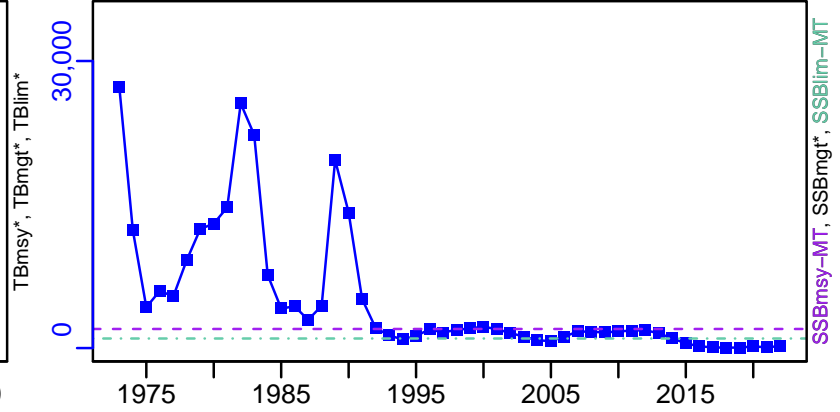
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

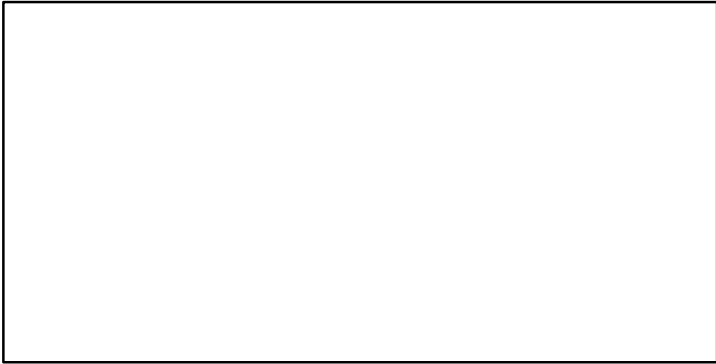
TB-MT (1935-2011-HIVELY)



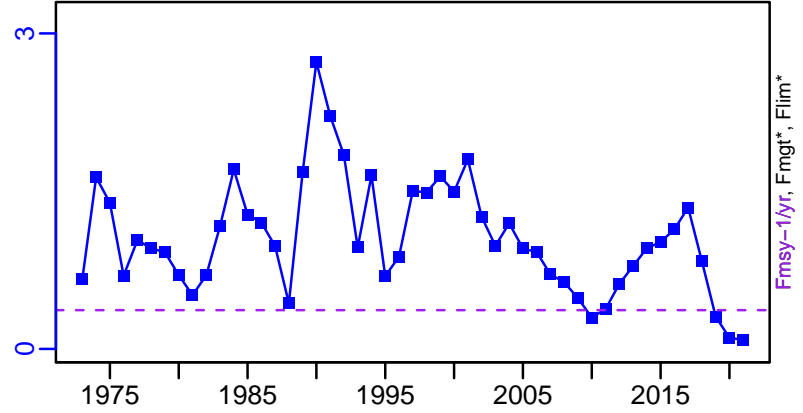
SSB-MT (1935-2022-SISIMP2024)



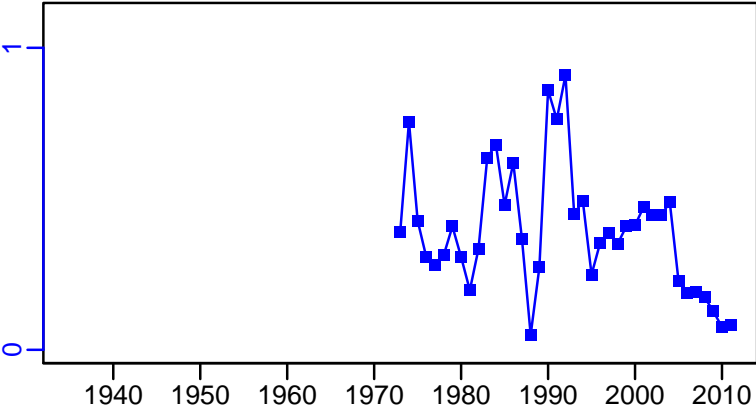
TN *



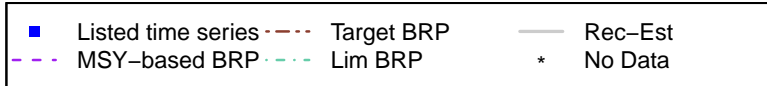
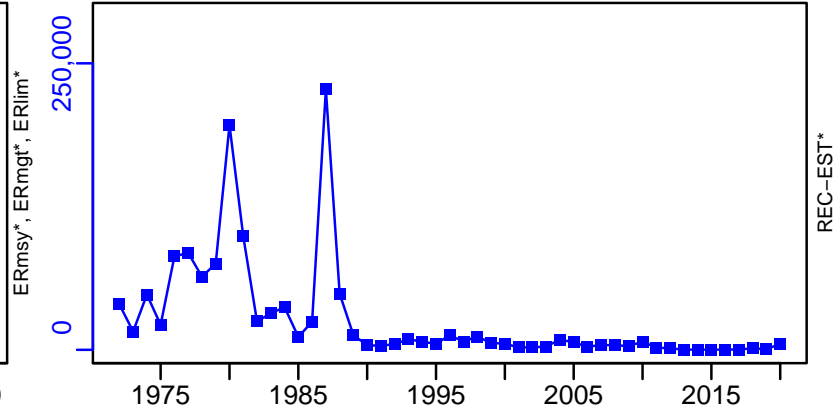
F-1/yr (1935-2022-SISIMP2024)



ER-calc-ratio (1935-2011-HIVELY)



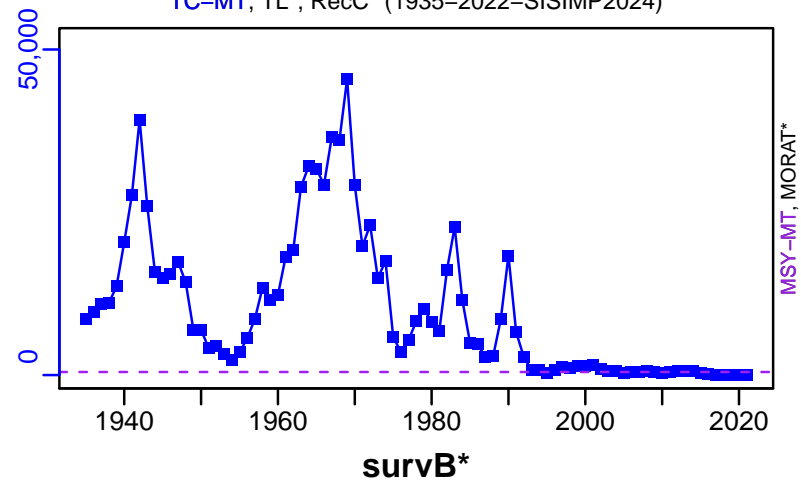
R-E00 (1935-2022-SISIMP2024)



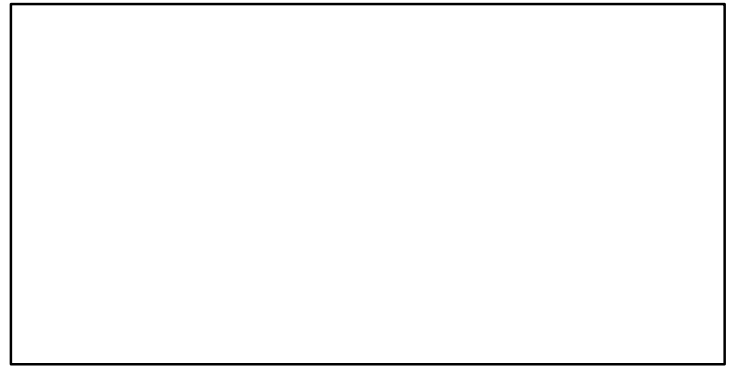
Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

TC-MT, TL*, RecC* (1935-2022-SISIMP2024)

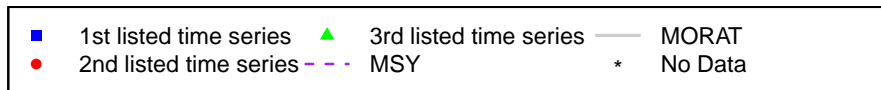
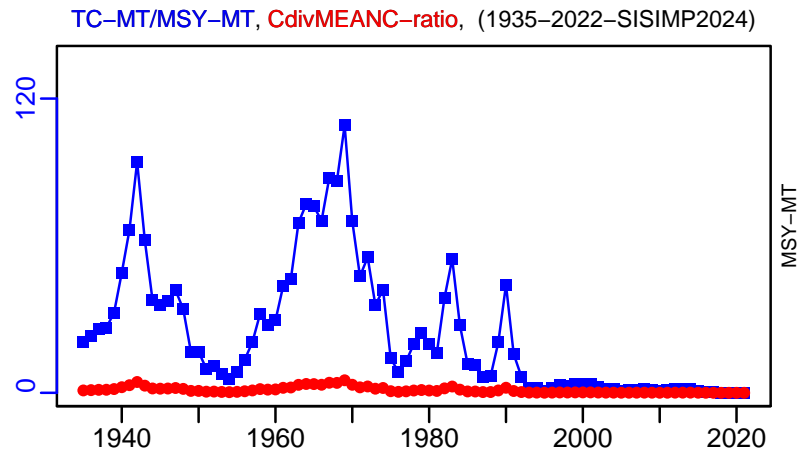
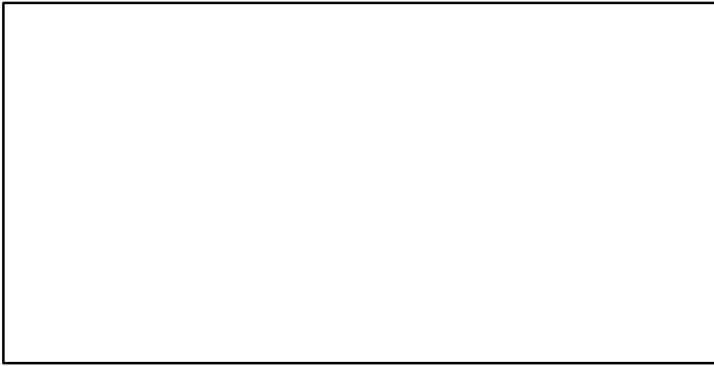
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

Metadata	
Scientific Name	Pseudopleuronectes herzensteini
Current Assess ID	FAFRFJ-YSFLOUNNHOKK-1985-2013-JPNIMP2016
Area	North coast of Hokkaido
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	1550		
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

Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

TB*



SSB*



TN *



F*



ER*

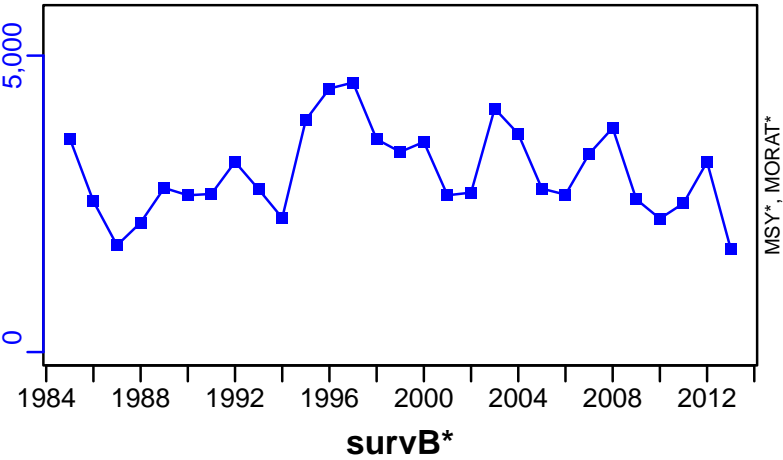


Recruits*



Yellow striped flounder North coast of Hokkaido [YSFLOUNNHOKK]

TC-MT, TL*, RecC* (1985-2013-JPNIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

Metadata	
Scientific Name	Pseudopleuronectes herzensteini
Current Assess ID	FAFRFJ-YSFLOUNSOJ-1980-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	240		
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

Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

TB*



SSB*



TN *



F*



ER*

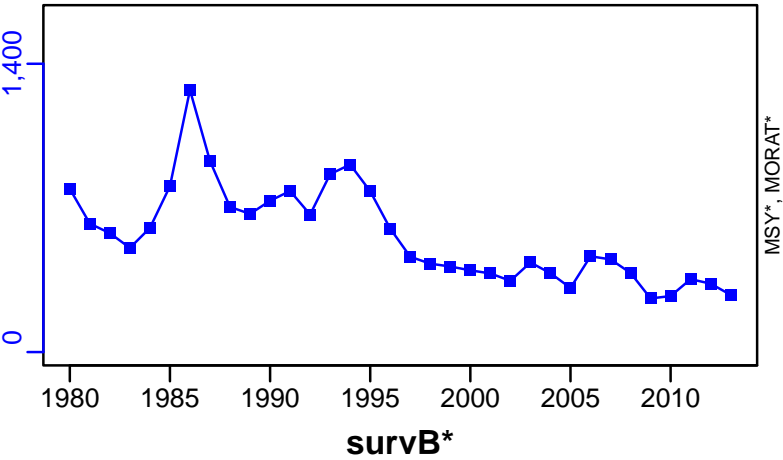


Recruits*



Yellow striped flounder Sea of Japan [YSFLOUNSOJ]

TC-MT, TL*, RecC* (1980-2013-JPNIMP2016)



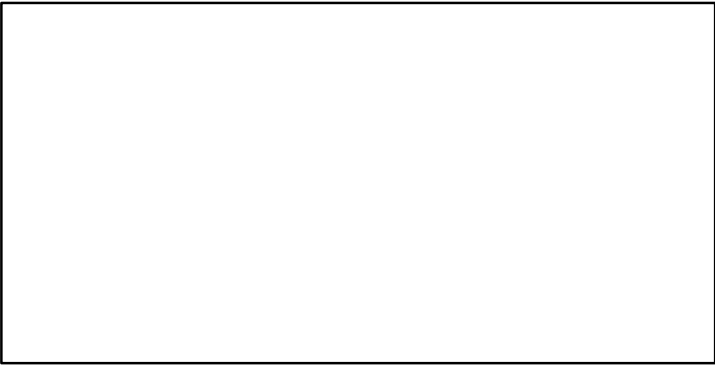
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

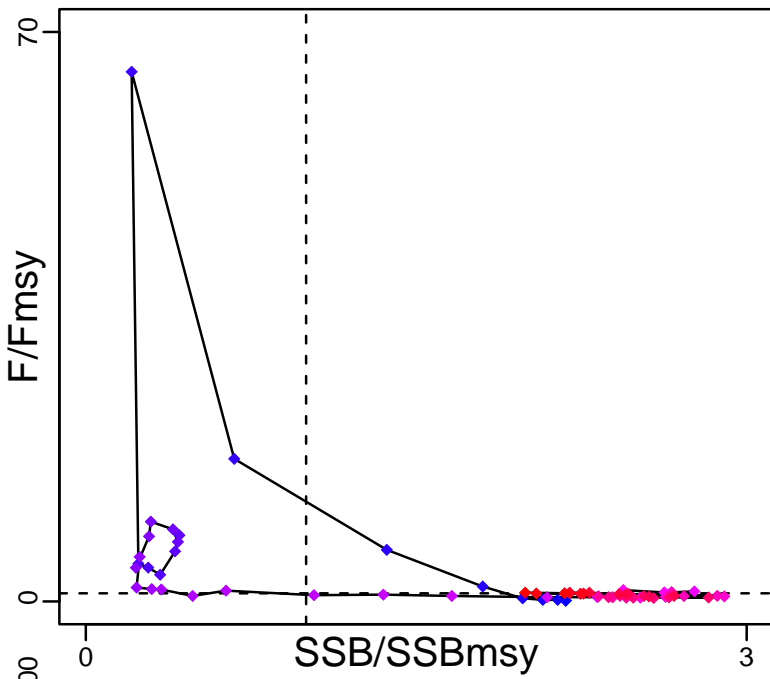
Metadata	
Scientific Name	Limanda aspera
Current Assess ID	AFSC-YSOLEBSAI-1953-2021-SISIMP2022
Area	Bering Sea and Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2010, 2016, 2017, 2018, 2021, 2015,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

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

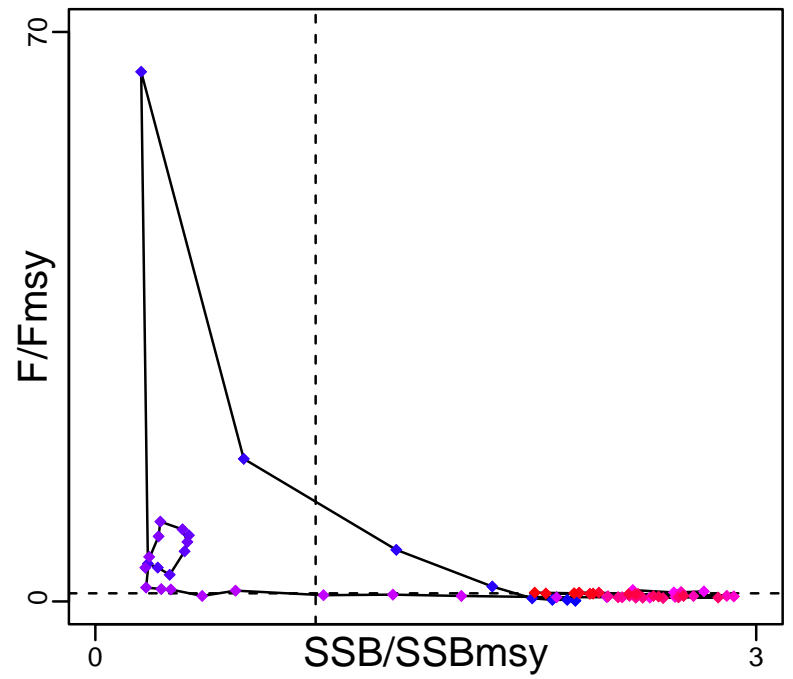
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	2,310,000	-	1+
SSB	SSB-MT	2021	941,735	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,627,979,994	-	1
F	F-1/yr	2021	0.164	-	-
ER	ER-calc-ratio	2015	0.067	-	-
TC	TC-MT	2021	133,789		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.899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

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

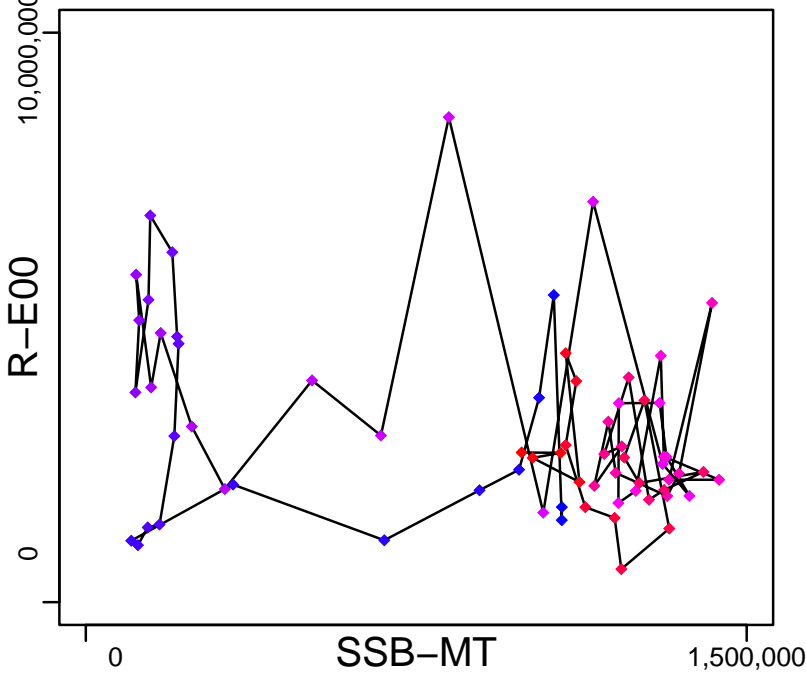
Kobe MSY_{pref} (1953–2021–SISIMP2022)



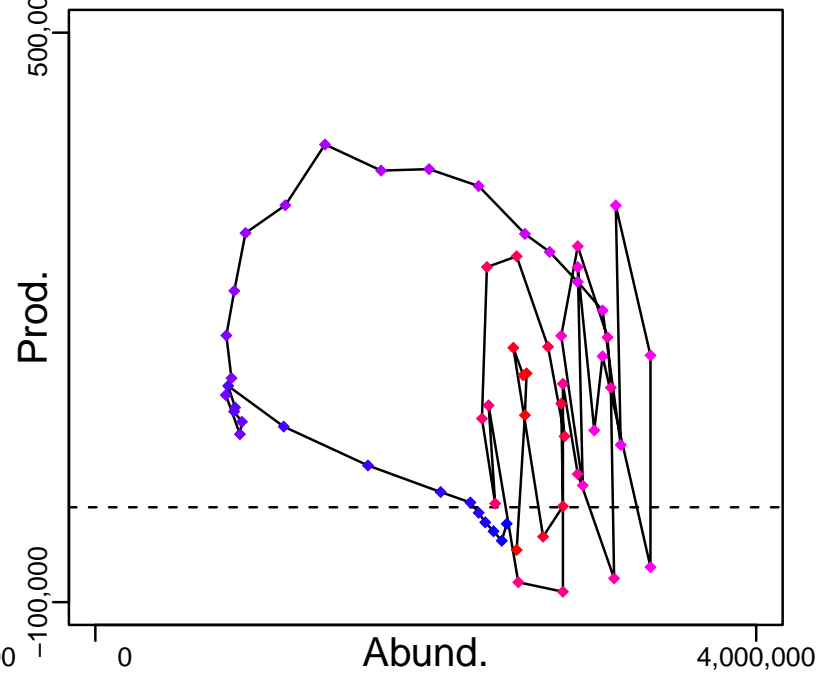
Kobe MGT_{pref} (1953–2021–SISIMP2022)



Spawner Recruit (1953–2021–SISIMP2022)



Production (1954–2015–SISIMP2016)

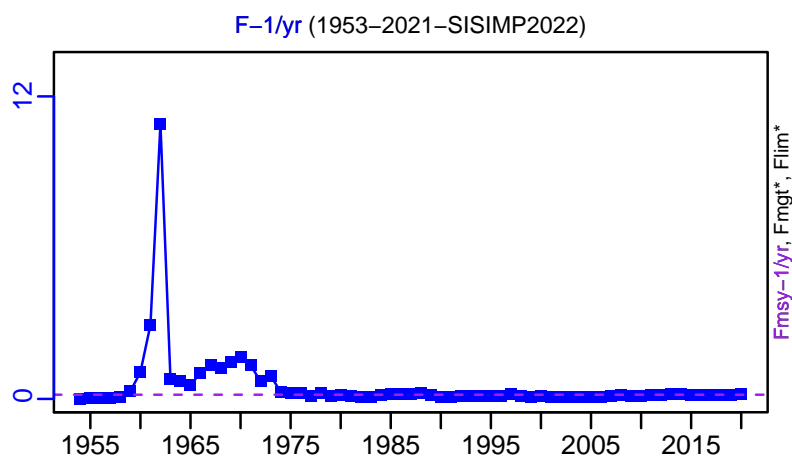
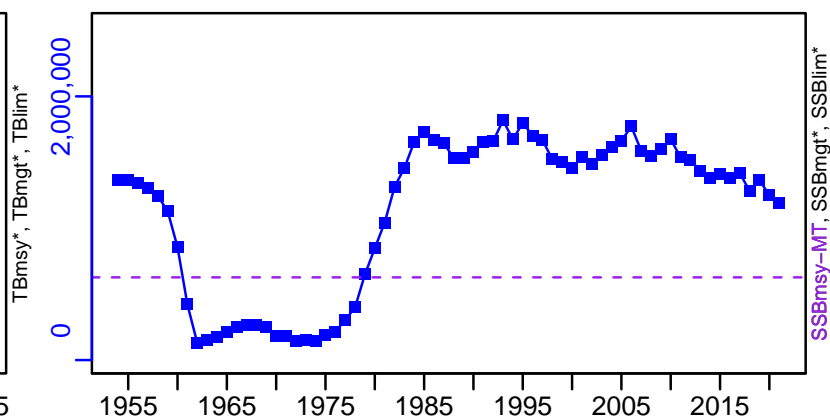
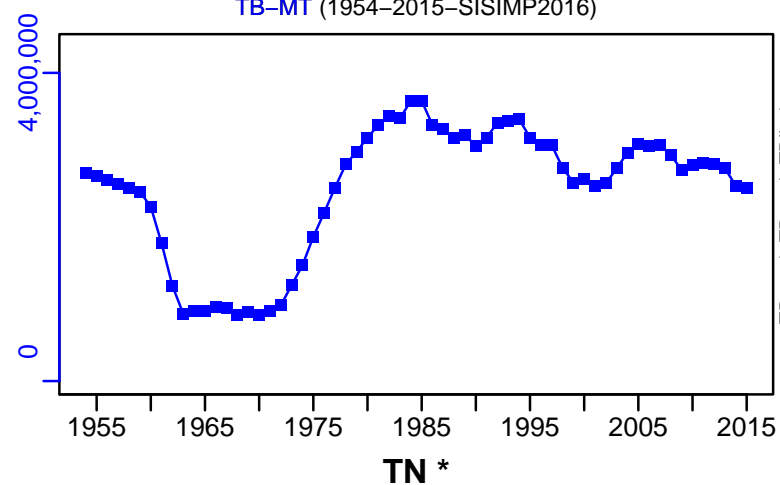


◆ Start Year ◆ End Year * No Data

Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

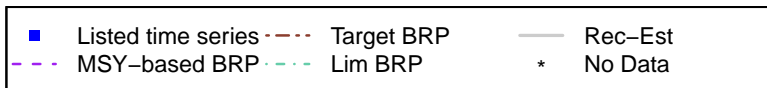
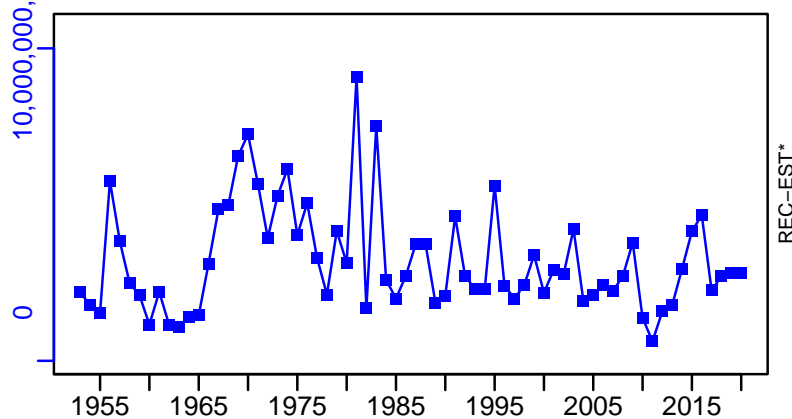
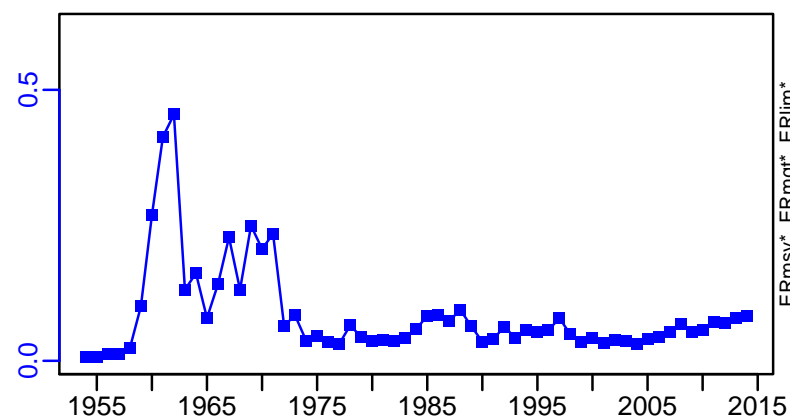
TB-MT (1954–2015–SISIMP2016)

SSB-MT (1953–2021–SISIMP2022)



ER-calc-ratio (1954–2015–SISIMP2016)

R-E00 (1953–2021–SISIMP2022)



Yellowfin sole Bering Sea and Aleutian Islands [YSOLEBSAI]

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

TAC*, Cpair*, Cadv*

