

gadids Stocks

v4.66 (Nov-03-2024)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. APOLLNEMS [Walleye pollock Nemuro Strait]	TB SSB	ER F	TB SSB	ER F
2. APOLLNSJ [Walleye pollock Sea of Japan North]	TB SSB	ER F	TB SSB	ER F
3. APOLLOKS [Walleye pollock Okhotsk Sea]	TB SSB	ER F	TB SSB	ER F
4. APOLLPJPN [Walleye pollock Pacific Coast of Japan]	TB SSB	ER F	TB SSB	ER F
5. ARGHAKENARG [Argentine hake Northern Argentina]	TB SSB	ER F	TB SSB	ER F
6. ARGHAKESARG [Argentine hake Southern Argentina]	TB SSB	ER F	TB SSB	ER F
7. BGRDRNSWWA [Blue grenadier New South Wales to Western Aus- tralia]	TB SSB	ER F	TB SSB	ER F
8. BHAKECWAAGO [Benguela hake Central West Africa Angola]	TB SSB	ER F	TB SSB	ER F
9. BLINGI-II-IIIa-IVa-VIII-IX-XII [Blue ling ICES 1-2-3a-4a-8-9-12]	TB SSB	ER F	TB SSB	ER F
10. BLINGVa-XIV [Blue ling ICES 5a-14]	TB SSB	ER F	TB SSB	ER F
11. BLINGVb-VI-VII [Blue ling ICES 5b-6-7]	TB SSB	ER F	TB SSB	ER F
12. BWHITMEDGSA1 [Blue whiting Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
13. BWHITMEDGSA6 [Blue whiting Northern Spain]	TB SSB	ER F	TB SSB	ER F
14. BWHITMEDGSA9 [Blue whiting Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
15. BWHITNEA [Blue whiting Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
16. CHAKESA [Shallow water cape hake South Africa]	TB SSB	ER F	TB SSB	ER F
17. COD1ABCDE [Atlantic cod NAFO 1ABCDE]	TB SSB	ER F	TB SSB	ER F
18. COD1F-XIV [Atlantic cod NAFO 1F and ICES 14]	TB SSB	ER F	TB SSB	ER F
19. COD1IN [Atlantic cod NAFO Subarea 1 (inshore)]	TB SSB	ER F	TB SSB	ER F
20. COD2J3KL [Atlantic cod Southern Labrador-Eastern Newfoundland]	TB SSB	ER F	TB SSB	ER F
21. COD3M [Atlantic cod Flemish Cap]	TB SSB	ER F	TB SSB	ER F
22. COD3NO [Atlantic cod Southern Grand Banks]	TB SSB	ER F	TB SSB	ER F
23. COD3Pn4RS [Atlantic cod Northern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
24. COD3Ps [Atlantic cod St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
25. COD4TVn [Atlantic cod Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
26. COD4VsW [Atlantic cod Eastern Scotian Shelf]	TB SSB	ER F	TB SSB	ER F
27. COD4X5Yb [Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
28. COD5Zjm [Atlantic cod NAFO 5Zjm]	TB SSB	ER F	TB SSB	ER F
29. CODBA2224 [Atlantic cod Western Baltic]	TB SSB	ER F	TB SSB	ER F
30. CODBA2532 [Atlantic cod Eastern Baltic]	TB SSB	ER F	TB SSB	ER F
31. CODFABNK [Atlantic cod Faroe Bank]	TB SSB	ER F	TB SSB	ER F
32. CODFAPL [Atlantic cod Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
33. CODGB [Atlantic cod Georges Bank]	TB SSB	ER F	TB SSB	ER F
34. CODGOM [Atlantic cod Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
35. CODICE [Atlantic cod Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
36. CODIIIaW-IV-VIId [Atlantic cod ICES 3a(west)-4-7d]	TB SSB	ER F	TB SSB	ER F
37. CODIS [Atlantic cod Irish Sea]	TB SSB	ER F	TB SSB	ER F

38. CODKAT [Atlantic cod Kattegat]	TB SSB	ER F	TB SSB	ER F
39. CODNEAR [Atlantic cod North-East Arctic]	TB SSB	ER F	TB SSB	ER F
40. CODNEARNCW [Atlantic cod North-East Arctic (Norwegian coastal waters)]	TB SSB	ER F	TB SSB	ER F
41. CODVIa [Atlantic cod West of Scotland]	TB SSB	ER F	TB SSB	ER F
42. CODVIb [Atlantic cod Rockall Bank]	TB SSB	ER F	TB SSB	ER F
43. CODVIIek [Atlantic cod Celtic Sea]	TB SSB	ER F	TB SSB	ER F
44. CUSK4X [Cusk Western Scotian Shelf]	TB SSB	ER F	TB SSB	ER F
45. CUSKI-II [Tusk North-East Arctic]	TB SSB	ER F	TB SSB	ER F
46. CUSKNEATL [Tusk Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
47. CUSKVa-XIV [Tusk ICES 5a-14]	TB SSB	ER F	TB SSB	ER F
48. CUSKVIb [Tusk Rockall Bank]	TB SSB	ER F	TB SSB	ER F
49. CUSKXII [Tusk North of Azores]	TB SSB	ER F	TB SSB	ER F
50. DEEPCHAKESA [Deep water cape hake South Africa]	TB SSB	ER F	TB SSB	ER F
51. EPOLLIV-IIIa [European pollack ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
52. EPOLLVIII-IXa [European pollack ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
53. GFORKBMEDGSA9 [Greater forkbeard Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
54. GFORKNEATL [Greater forkbeard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
55. HAD3LNO [Haddock Grand Banks]	TB SSB	ER F	TB SSB	ER F
56. HAD3Ps [Haddock St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
57. HAD4X5Y [Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
58. HAD5Y [Haddock Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
59. HADFAPL [Haddock Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
60. HADGB [Haddock Georges Bank]	TB SSB	ER F	TB SSB	ER F
61. HADICE [Haddock Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
62. HADIS [Haddock Irish Sea]	TB SSB	ER F	TB SSB	ER F
63. HADNEAR [Haddock North-East Arctic]	TB SSB	ER F	TB SSB	ER F
64. HADNS-IIIa-VIa [Haddock ICES 3a-4-6a]	TB SSB	ER F	TB SSB	ER F
65. HADROCK [Haddock Rockall Bank]	TB SSB	ER F	TB SSB	ER F
66. HADVIlb-k [Haddock ICES 7b-k]	TB SSB	ER F	TB SSB	ER F
67. HAKEMEDGSA15-16 [Hake Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
68. HAKEMEDGSA1-7 [Hake Geographical Sub-Areas 1-7]	TB SSB	ER F	TB SSB	ER F
69. HAKEMEDGSA17-18 [Hake Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
70. HAKEMEDGSA19 [Hake Western Ionian Sea]	TB SSB	ER F	TB SSB	ER F
71. HAKEMEDGSA20 [Hake Eastern Ionian Sea]	TB SSB	ER F	TB SSB	ER F
72. HAKEMEDGSA22-23 [Hake Aegean Sea and Crete Island (GSA 22,23)]	TB SSB	ER F	TB SSB	ER F
73. HAKEMEDGSA7 [Hake Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
74. HAKEMEDGSA8-11 [Hake Geographical Sub-Areas 8-11]	TB SSB	ER F	TB SSB	ER F
75. HAKENRTN [Hake ICES 3a-4-6-7-8abd]	TB SSB	ER F	TB SSB	ER F
76. HAKENWAMAR [Hake North West Africa Morocco]	TB SSB	ER F	TB SSB	ER F
77. HAKESOTH [Hake ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
78. HAKESPPNWA [Hake spp North West Africa]	TB SSB	ER F	TB SSB	ER F
79. HAKESPPSAF [Hake spp Southern Africa]	TB SSB	ER F	TB SSB	ER F
80. HOKIENZ [Hoki Eastern New Zealand]	TB SSB	ER F	TB SSB	ER F
81. HOKIWNZ [Hoki Western New Zealand]	TB SSB	ER F	TB SSB	ER F

82. LCODLINGPAC [Longfin codling Pacific Ocean]	TB SSB	ER F	TB SSB	ER F
83. LINGI-II [Ling North-East Arctic]	TB SSB	ER F	TB SSB	ER F
84. LINGNEATL [Ling Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
85. LINGVa [Ling Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
86. LINGVb [Ling Faroe Grounds]	TB SSB	ER F	TB SSB	ER F
87. NPOUTIIIa-IV [Norway pout ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
88. NPOUTVIa [Norway pout West of Scotland]	TB SSB	ER F	TB SSB	ER F
89. PATCODARGS [Patagonian cod Southern Argentina]	TB SSB	ER F	TB SSB	ER F
90. PATGRENADIERCH [Patagonian grenadier Central-Southern Chile]	TB SSB	ER F	TB SSB	ER F
91. PATGRENADIERSARG [Patagonian grenadier Southern Argentina]	TB SSB	ER F	TB SSB	ER F
92. PCOD5ABCD [Pacific cod British Columbia Waters Area 5ABCD]	TB SSB	ER F	TB SSB	ER F
93. PCODAI [Pacific cod Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
94. PCODBS [Pacific cod Bering Sea]	TB SSB	ER F	TB SSB	ER F
95. PCODGA [Pacific cod Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
96. PCODHOKK [Pacific cod Hokkaido]	TB SSB	ER F	TB SSB	ER F
97. PCODNPAC [Pacific cod North Pacific]	TB SSB	ER F	TB SSB	ER F
98. PCODSOJ [Pacific cod Sea of Japan]	TB SSB	ER F	TB SSB	ER F
99. PCODWCVANI [Pacific cod West Coast of Vancouver Island]	TB SSB	ER F	TB SSB	ER F
100. PHAKEPCOAST [Pacific hake Pacific Coast]	TB SSB	ER F	TB SSB	ER F
101. POLL3Ps [Pollock St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
102. POLL4VWX [Pollock Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
103. POLL5YZ [Pollock Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
104. POLLFAPL [Saithe Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
105. POLLIEG [Saithe Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
106. POLLNEAR [Saithe North-East Arctic]	TB SSB	ER F	TB SSB	ER F
107. POLLNS-VI-IIIa [Saithe ICES 3a-4-6]	TB SSB	ER F	TB SSB	ER F
108. PRCODMEDGSA9 [Poor cod Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
109. RHAKEGOMNGB [Red hake Gulf of Maine / Northern Georges Bank]	TB SSB	ER F	TB SSB	ER F
110. RHAKESGBMATL [Red hake Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F
111. RHGRENNEATL [Roughhead grenadier Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
112. RNGENI-II-IV-Va2-VIII-IX-XIVab2 [Roundnose grenadier ICES 1-2-4-5a2-8-9-14ab2]	TB SSB	ER F	TB SSB	ER F
113. RNGENMATLR [Roundnose grenadier Mid-Atlantic Ridge]	TB SSB	ER F	TB SSB	ER F
114. RGENVb-VI-VII-XIIb [Roundnose grenadier ICES 5b-6-7-12b]	TB SSB	ER F	TB SSB	ER F
115. RNGRENIIIa [Roundnose grenadier Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
116. SBWHITACIR [Southern blue whiting Campbell Island Rise]	TB SSB	ER F	TB SSB	ER F
117. SBWHITARGS [Southern blue whiting Southern Argentina]	TB SSB	ER F	TB SSB	ER F
118. SBWHITCH [Southern blue whiting Central-Southern Chile]	TB SSB	ER F	TB SSB	ER F
119. SHAKE4VWX [Silver hake Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
120. SHAKEGOMNGB [Silver hake Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
121. SHAKESGBMATL [Silver hake Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F
122. SOUTHHAKECH [Southern hake Central-Southern Chile]	TB SSB	ER F	TB SSB	ER F
123. SOUTHHAKECR [Southern hake Chatham Rise]	TB SSB	ER F	TB SSB	ER F
124. SOUTHHAKESEA [Southern hake Sub-Antarctic]	TB SSB	ER F	TB SSB	ER F
125. SOUTHHAKEWCSI [Southern hake West Coast South Island]	TB SSB	ER F	TB SSB	ER F
126. SPHAKECH [South Pacific hake Central-Southern Chile]	TB SSB	ER F	TB SSB	ER F

127. WHAKE3Ps [White hake St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
128. WHAKE4RS [White hake Northern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
129. WHAKE4T [White hake Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
130. WHAKE4VWX5 [White hake Scotian Shelf, Bay of Fundy and Georges Bank]	TB SSB	ER F	TB SSB	ER F
131. WHAKEGBGOM [White hake Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
132. WHITIIIa [Whiting Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
133. WHITMEDGSA29 [Whiting Black Sea]	TB SSB	ER F	TB SSB	ER F
134. WHITNS-VIId [Whiting ICES 4-7d]	TB SSB	ER F	TB SSB	ER F
135. WHITVIa [Whiting West of Scotland]	TB SSB	ER F	TB SSB	ER F
136. WHITVIb [Whiting Rockall Bank]	TB SSB	ER F	TB SSB	ER F
137. WHITVIIa [Whiting Irish Sea]	TB SSB	ER F	TB SSB	ER F
138. WHITVIIbce-k [Whiting Celtic Sea]	TB SSB	ER F	TB SSB	ER F
139. WHITVIII-IXa [Whiting ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
140. WPOLLAI [Walleye pollock Aleutian Islands]	TB SSB	ER F	TB SSB	ER F
141. WPOLLBCWN [Walleye pollock British Columbia Waters North]	TB SSB	ER F	TB SSB	ER F
142. WPOLLBCWS [Walleye pollock British Columbia Waters South]	TB SSB	ER F	TB SSB	ER F
143. WPOLLBOGO [Walleye pollock Bogoslof]	TB SSB	ER F	TB SSB	ER F
144. WPOLLEBS [Walleye pollock Eastern Bering Sea]	TB SSB	ER F	TB SSB	ER F
145. WPOLLGA [Walleye pollock Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
146. WPOLLNAVAR [Walleye pollock Navarinsky]	TB SSB	ER F	TB SSB	ER F
147. WPOLLNSO [Walleye pollock Northern Sea of Okhotsk]	TB SSB	ER F	TB SSB	ER F
148. WPOLLSEGA [Walleye pollock Southeast Gulf of Alaska]	TB SSB	ER F	TB SSB	ER F
149. WPOLLWBS [Walleye pollock Western Bering Sea]	TB SSB	ER F	TB SSB	ER F

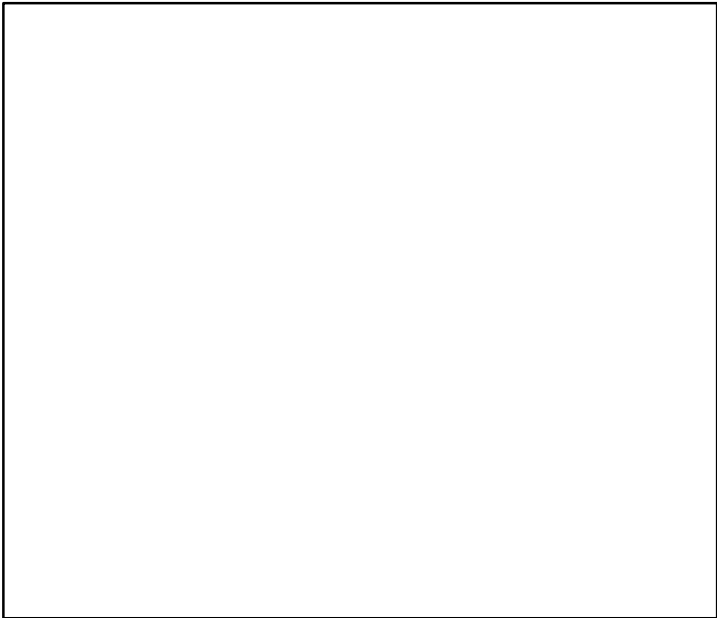
Walleye pollock Nemuro Strait [APOLLNEMS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAFRFJ-APOLLNEMS-1981-2013-JPNIMP2016
Area	Nemuro Strait
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

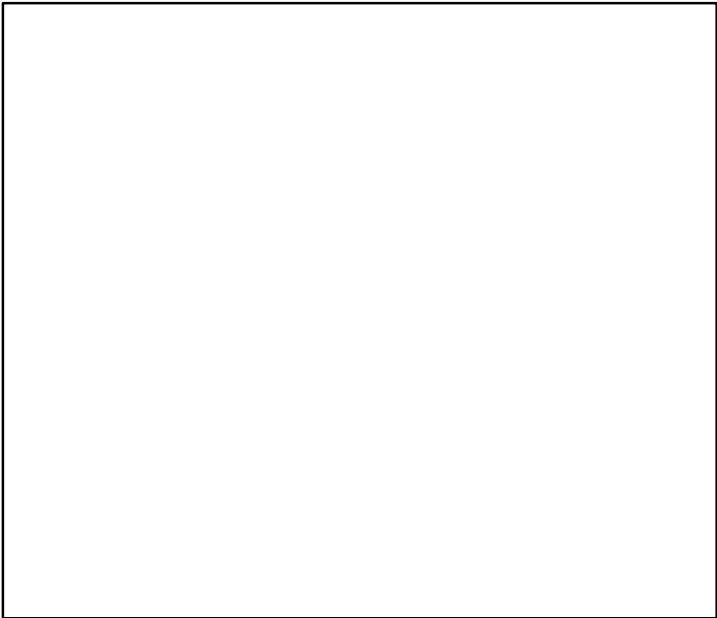
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	7720		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

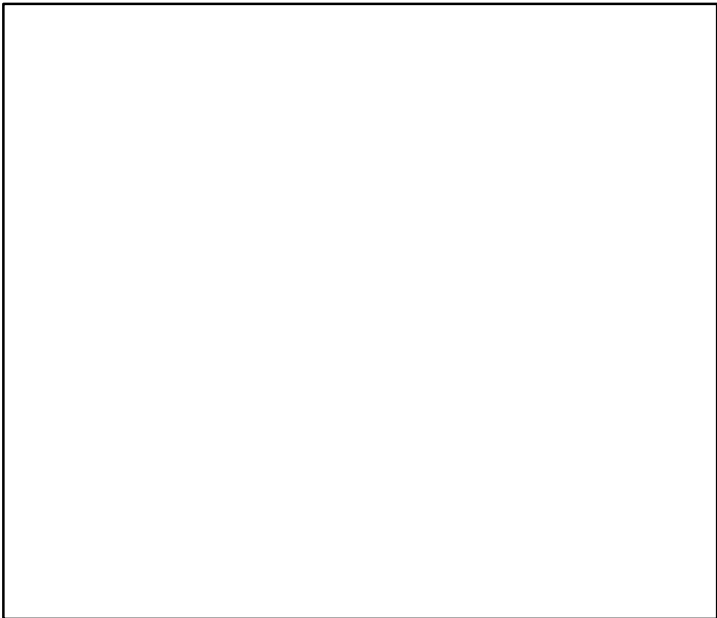
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

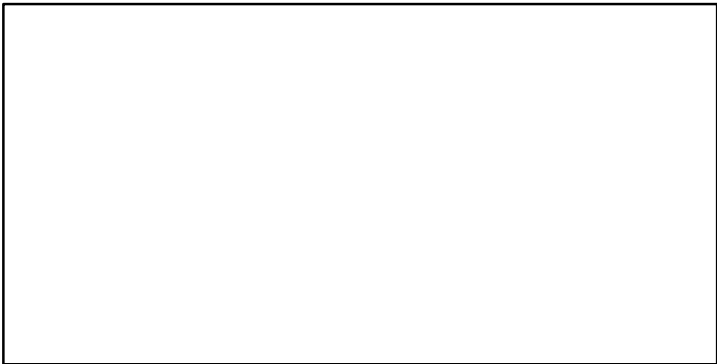
TB*



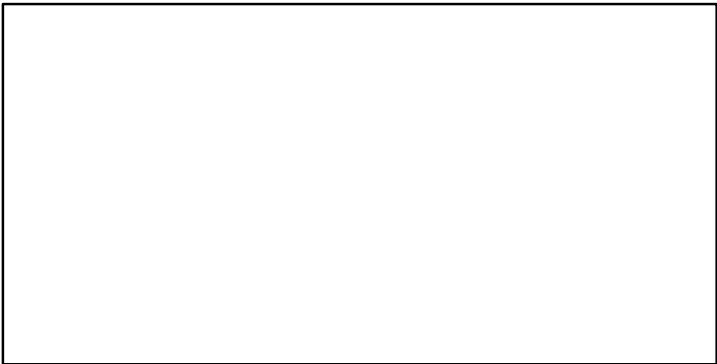
SSB*



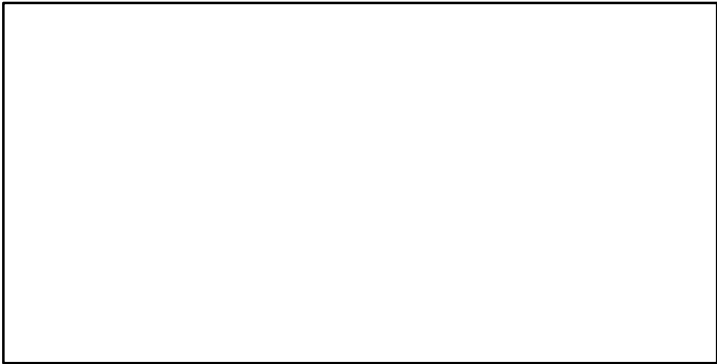
TN *



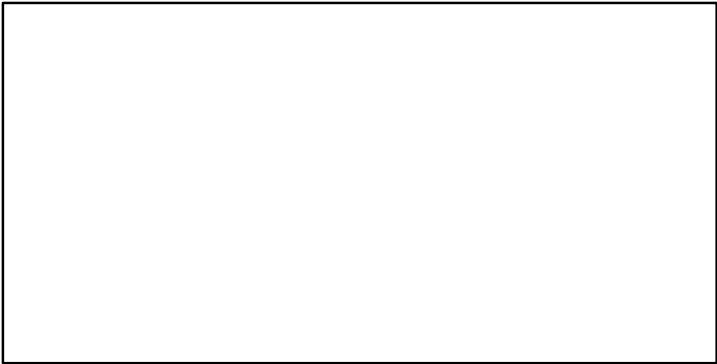
F*



ER*



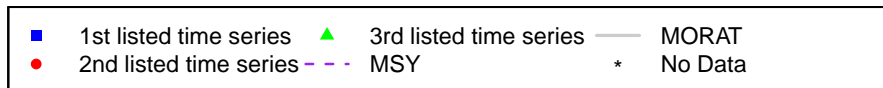
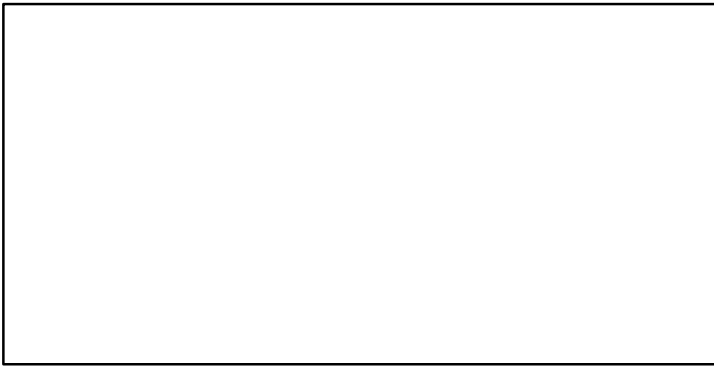
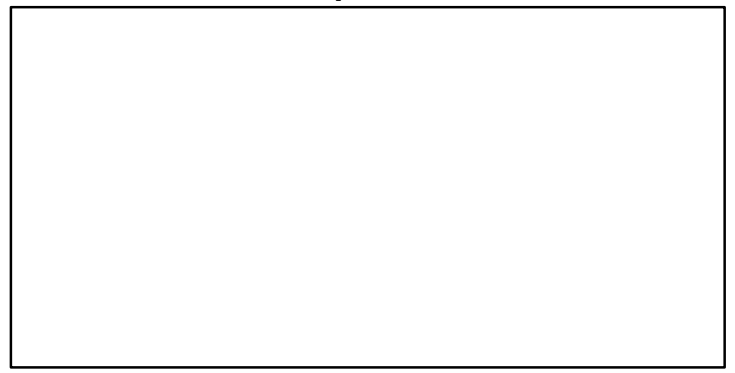
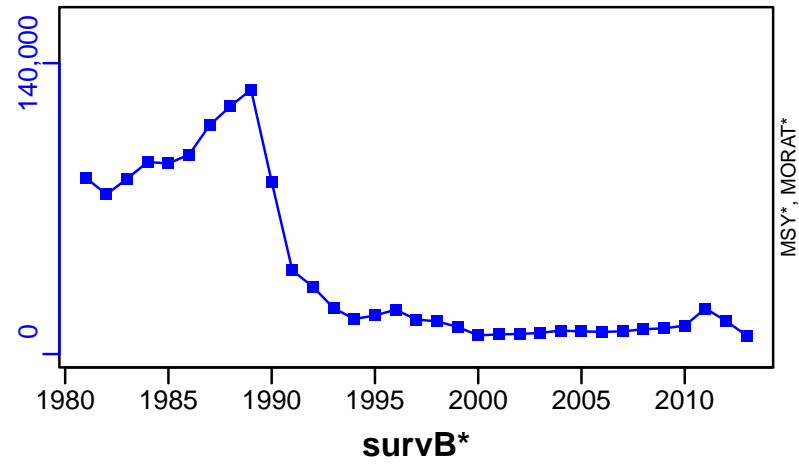
Recruits*



Walleye pollock Nemuro Strait [APOLLNEMS]

TC-MT, TL*, RecC* (1981-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Walleye pollock Sea of Japan North [APOLLNSJ]

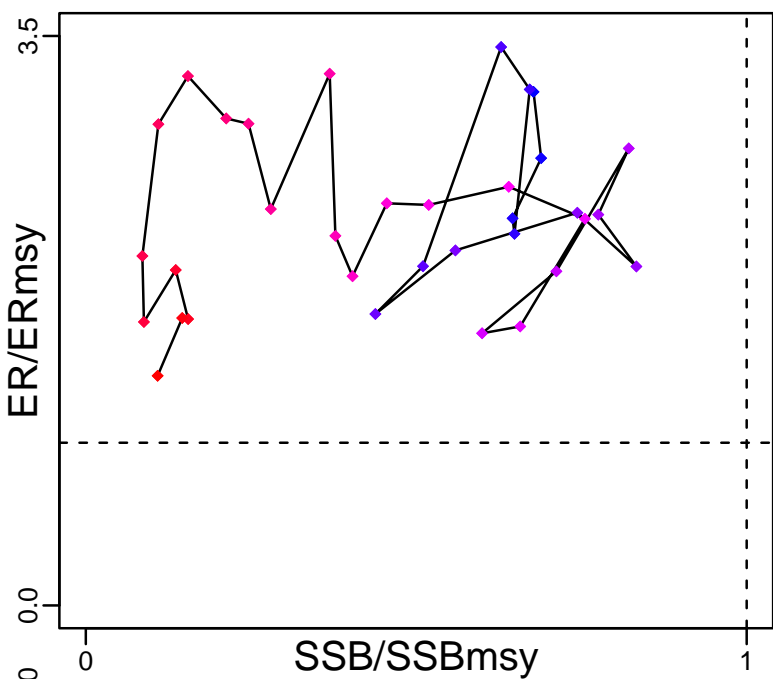
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAFRFJ-APOLLNSJ-1970-2013-JPNIMP2016
Area	Sea of Japan North
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	619,267
SSBmsy	SSBmsy-MT	2013	346,887
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.073
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	45,207
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

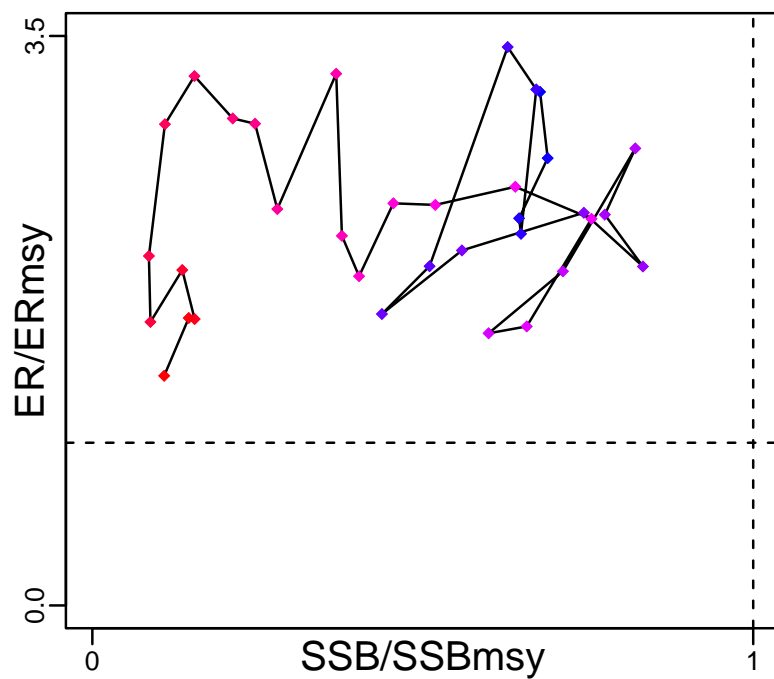
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	95,800	-	2
SSB	SSB-MT	2013	37,700	Both	4
TN	-	-	-	-	-
R	R-E00	2013	1.34×10^8	-	2
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.103	-	-
TC	TC-MT	2013	9870		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.155		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.109		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	1.411		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Sea of Japan North [APOLLNSJ]

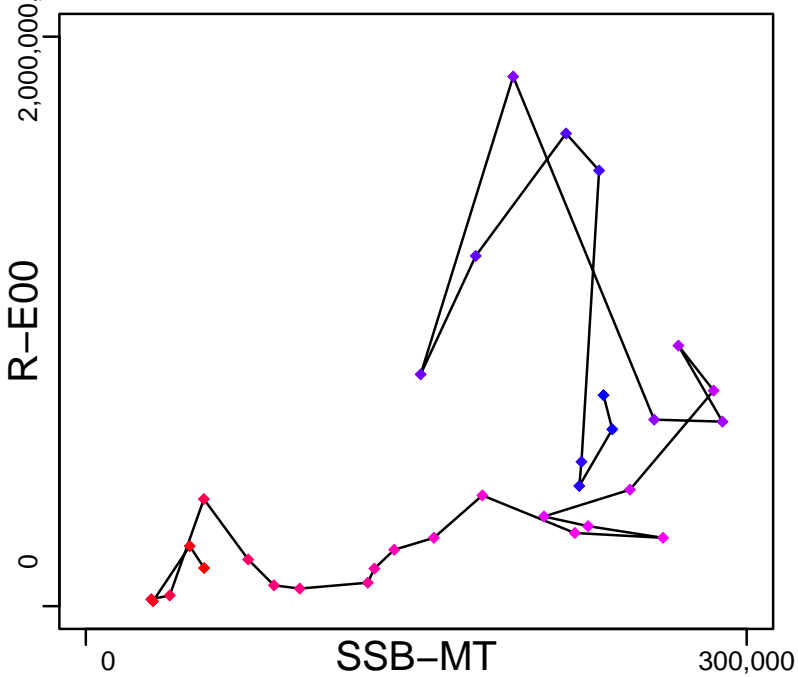
Kobe MSYpref (1970–2013–JPNIMP2016)



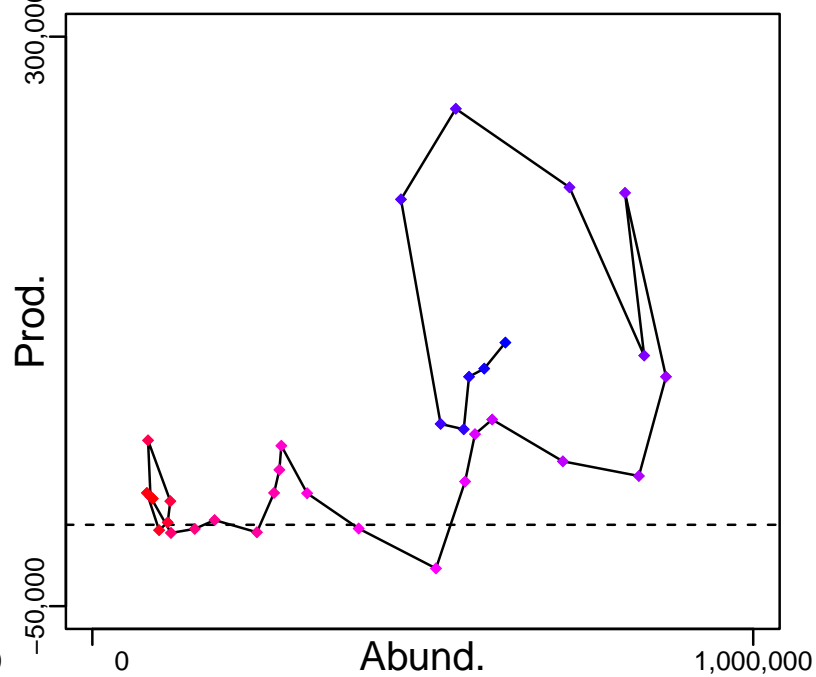
Kobe MGTpref (1970–2013–JPNIMP2016)



Spawner Recruit (1970–2013–JPNIMP2016)

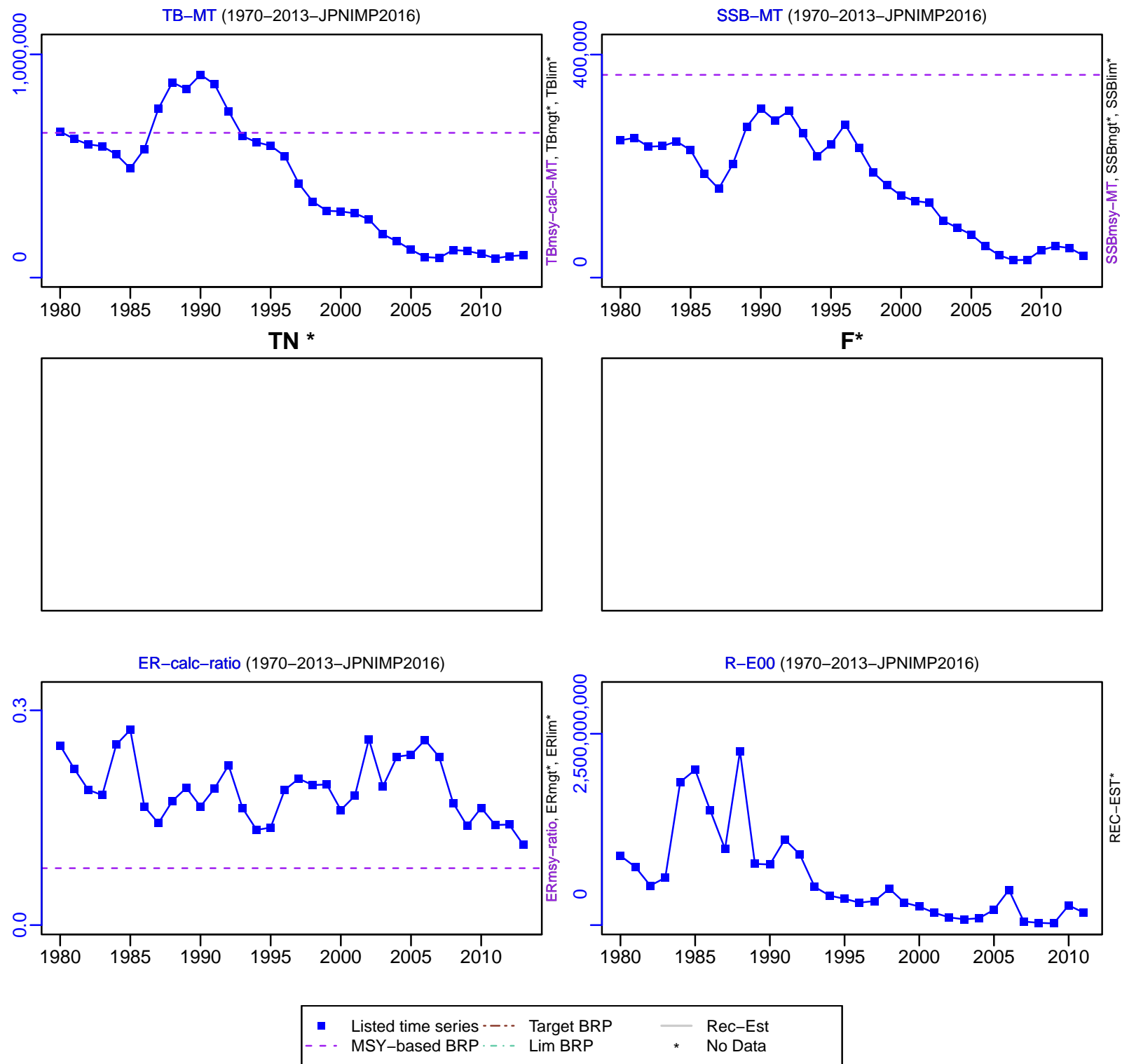


Production (1970–2013–JPNIMP2016)



◆ Start Year ◆ End Year * No Data

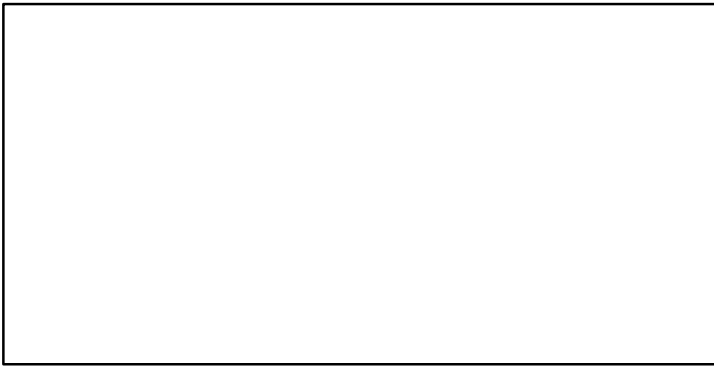
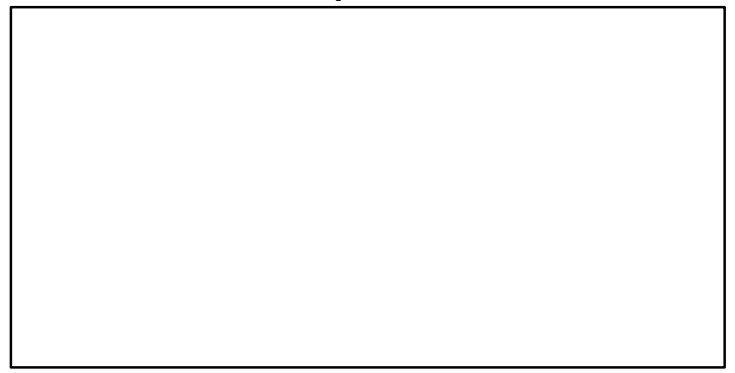
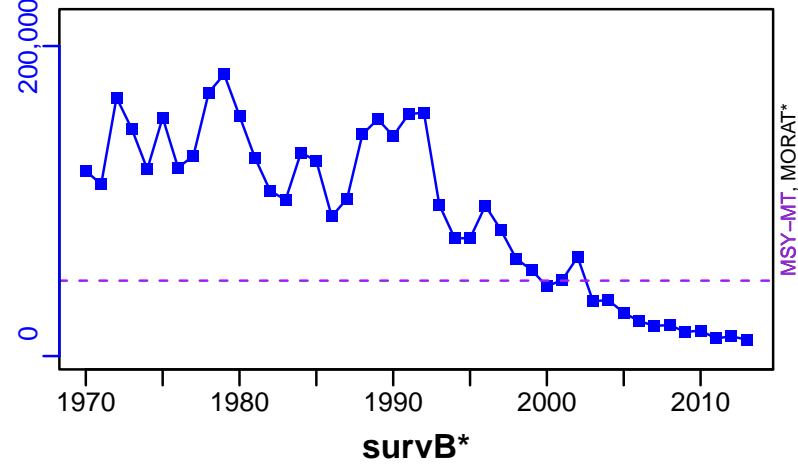
Walleye pollock Sea of Japan North [APOLLNSJ]



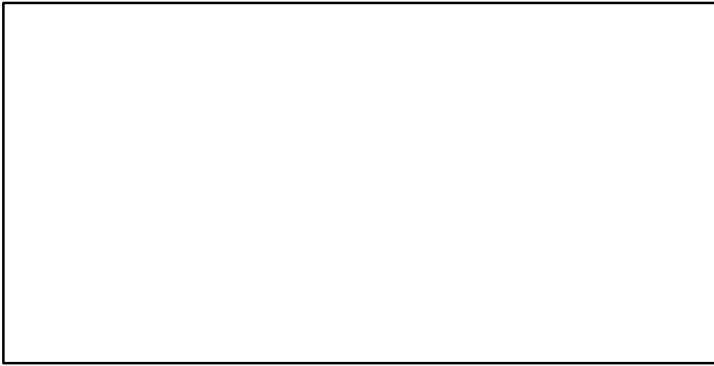
Walleye pollock Sea of Japan North [APOLLNSJ]

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

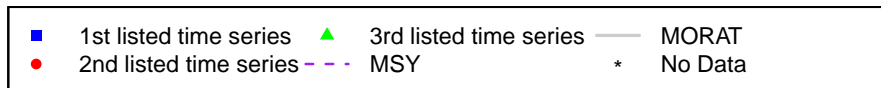
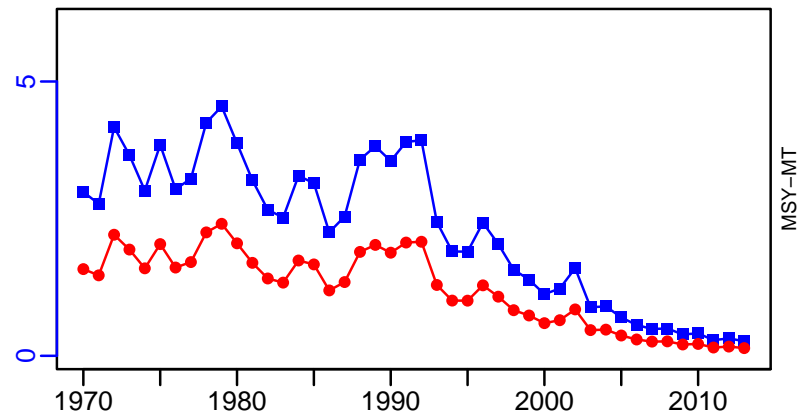
TAC*, Cpair*, Cadv*



EFFORT*



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



Walleye pollock Okhotsk Sea [APOLLOKS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAFRFJ-APOLLOKS-1980-2013-JPNIMP2016
Area	Okhotsk Sea
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	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	36,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

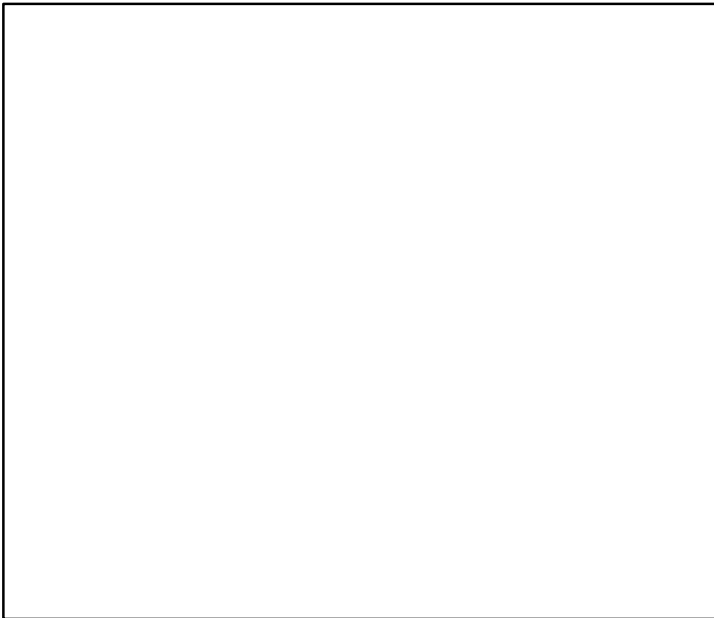
Kobe MSY*



Kobe MGT*



Spawner Recruit*



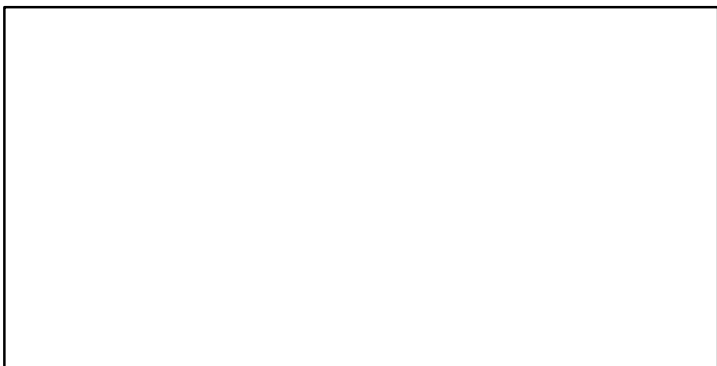
Production*



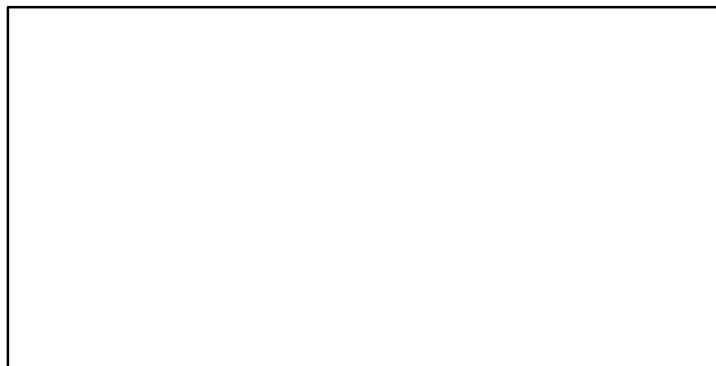
◆ Start Year ◆ End Year * No Data

Walleye pollock Okhotsk Sea [APOLLOKS]

TB*



SSB*



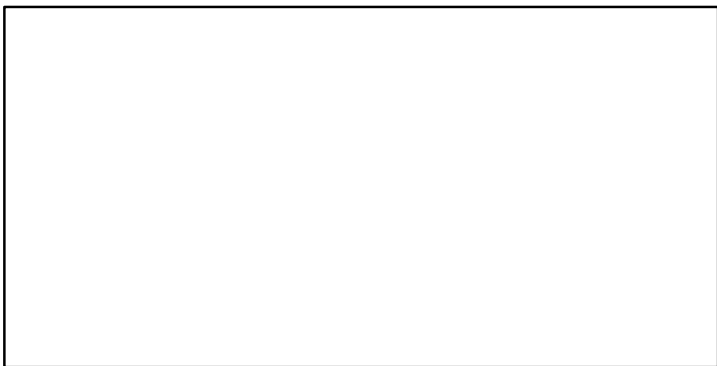
TN *



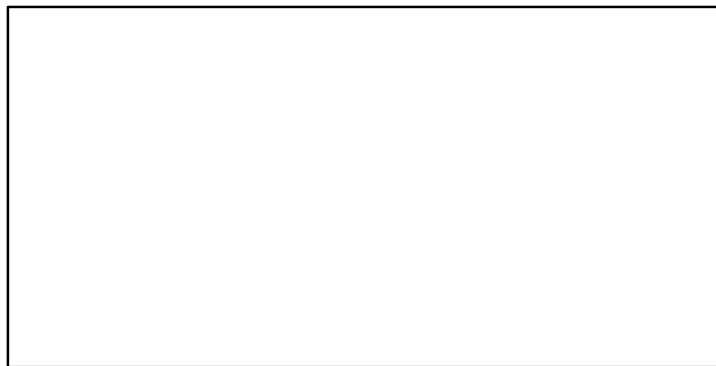
F*



ER*

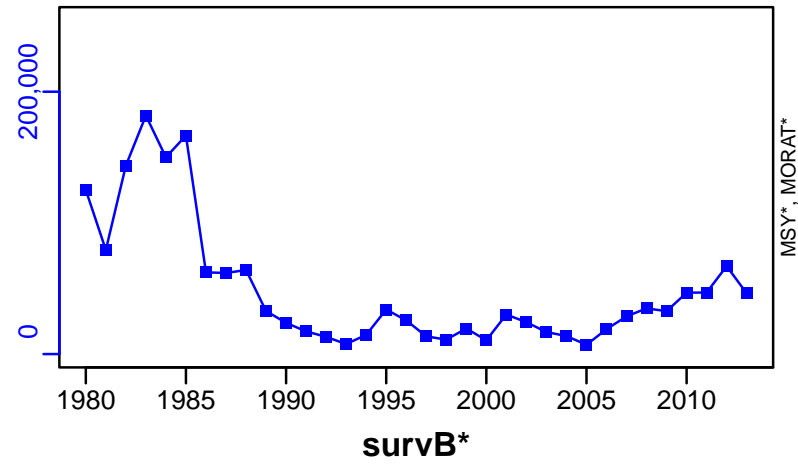


Recruits*

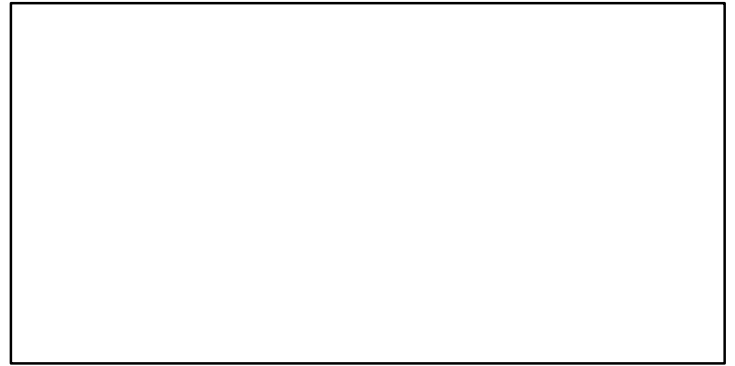


Walleye pollock Okhotsk Sea [APOLLOKS]

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



TAC*, Cpair*, Cadv*



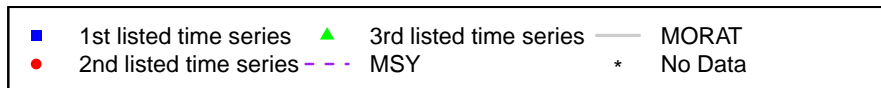
CPUE*



EFFORT*



CdivMSY*



Walleye pollock Pacific Coast of Japan [APOLLJPJN]

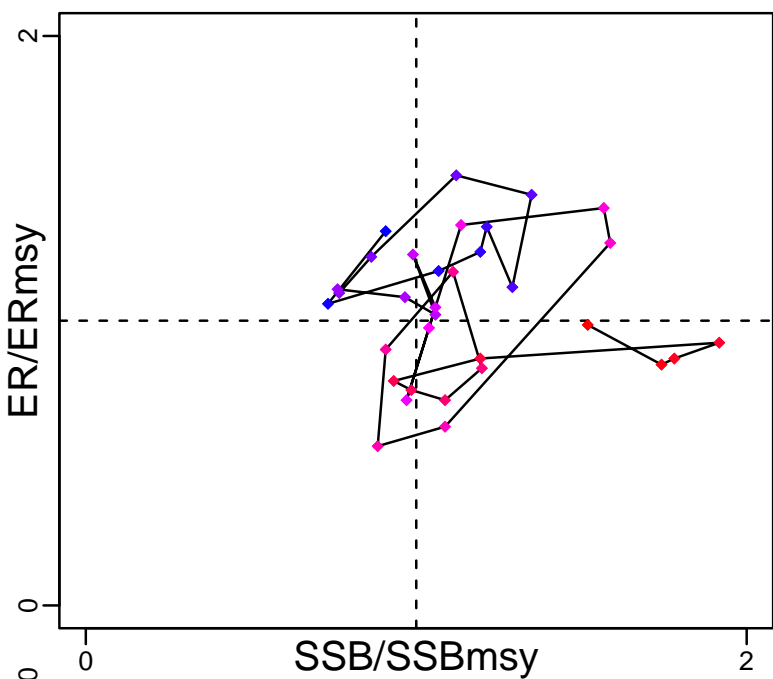
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	FAFRFJ-APOLLJPJN-1975-2013-JPNIMP2016
Area	Pacific Coast of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2013	1,013,493
SSBmsy	SSBmsy-MT	2013	206,052
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.174
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2013	176,348
M	M-1/yr	2013	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

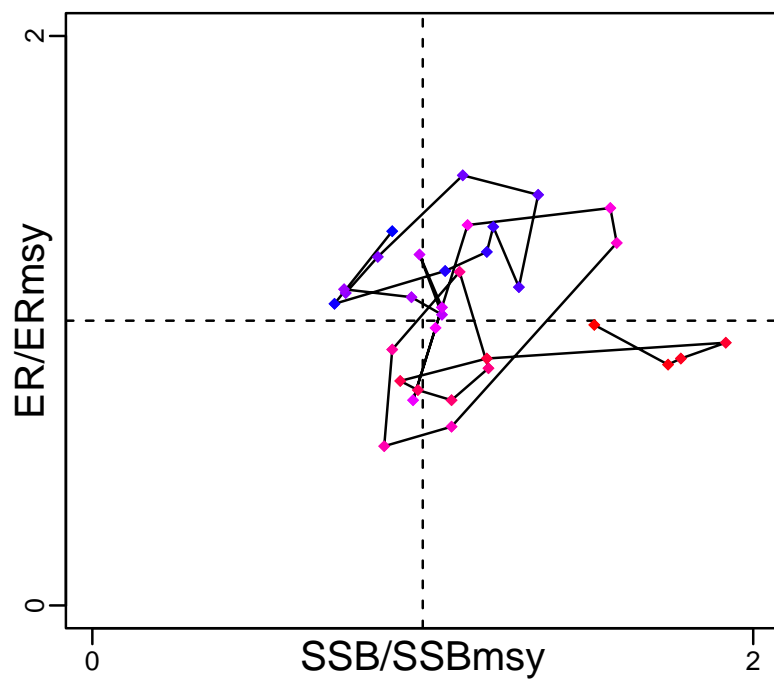
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	910,000	-	0
SSB	SSB-MT	2013	313,000	Both	4
TN	-	-	-	-	-
R	R-E00	2013	1.53×10^9	-	0
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.171	-	-
TC	TC-MT	2013	156,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2013	0.898		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.519		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2013	0.985		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Walleye pollock Pacific Coast of Japan [APOLLJPN]

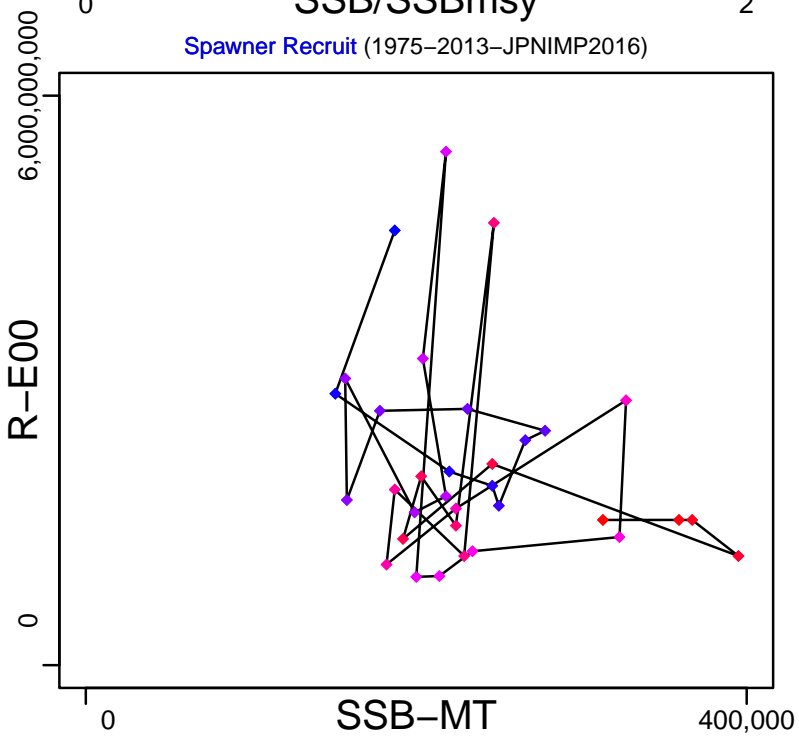
Kobe MSYpref (1975–2013–JPNIMP2016)



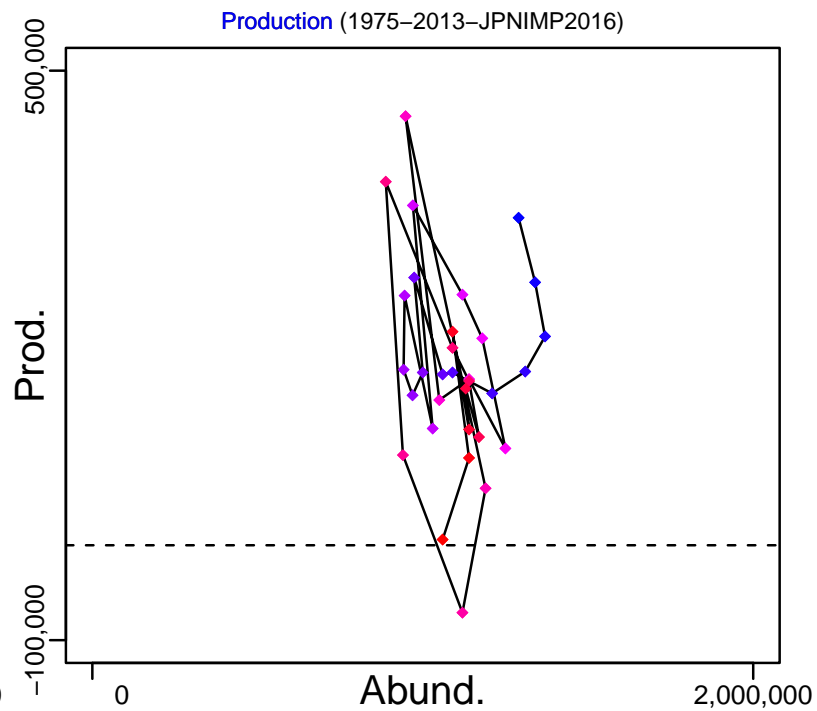
Kobe MGTpref (1975–2013–JPNIMP2016)



Spawner Recruit (1975–2013–JPNIMP2016)



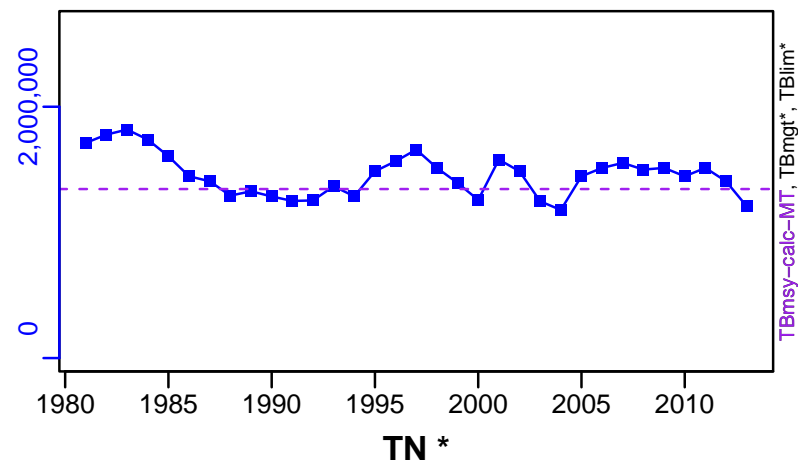
Production (1975–2013–JPNIMP2016)



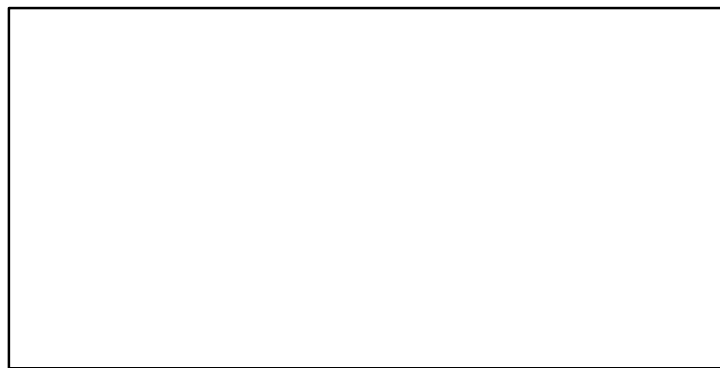
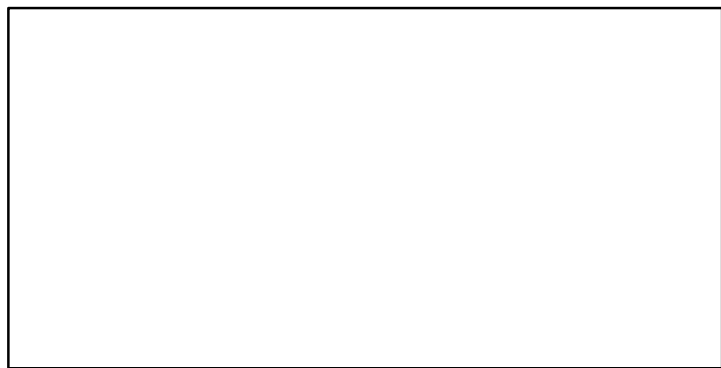
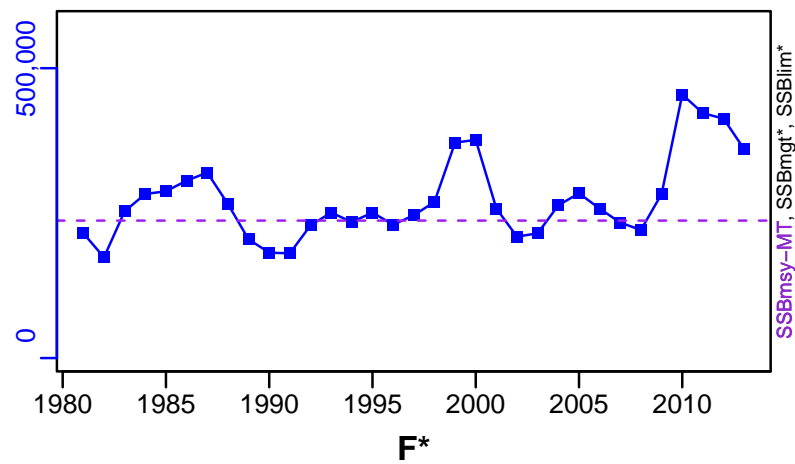
◆ Start Year ◆ End Year * No Data

Walleye pollock Pacific Coast of Japan [APOLLPJPN]

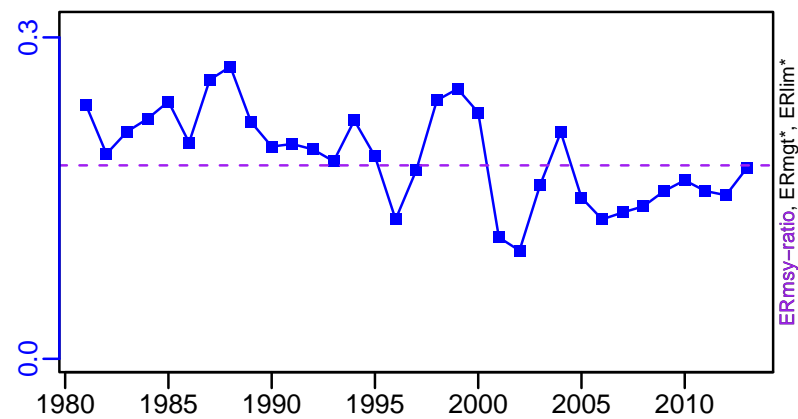
TB-MT (1975-2013-JPNIMP2016)



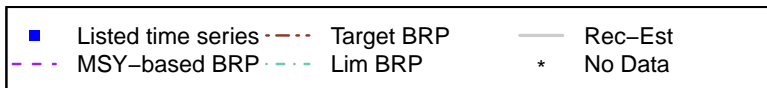
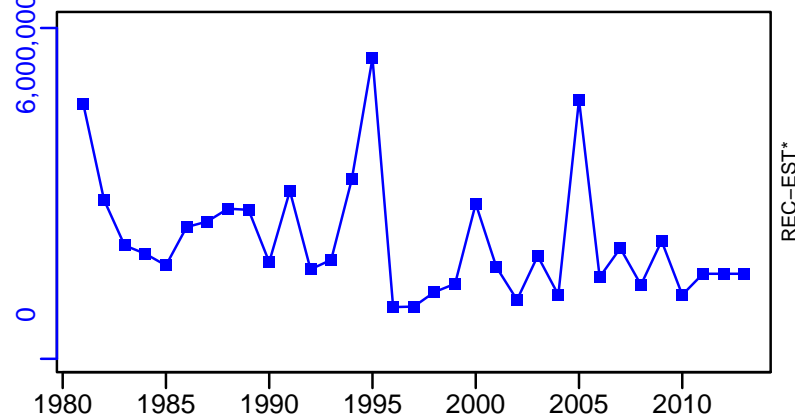
SSB-MT (1975-2013-JPNIMP2016)



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

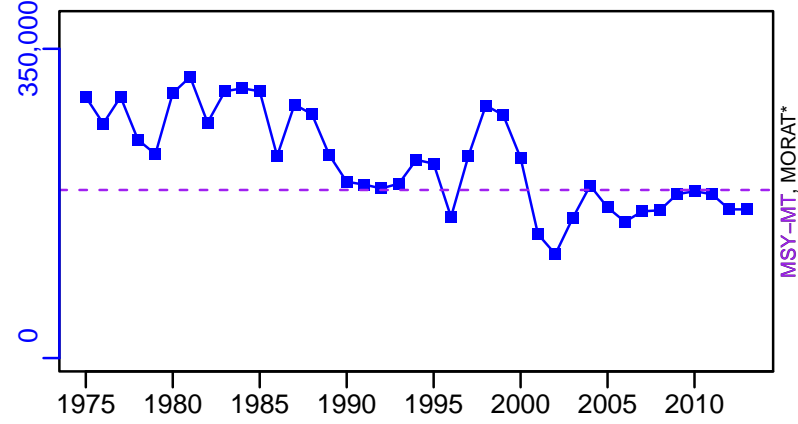


R-E00 (1975-2013-JPNIMP2016)

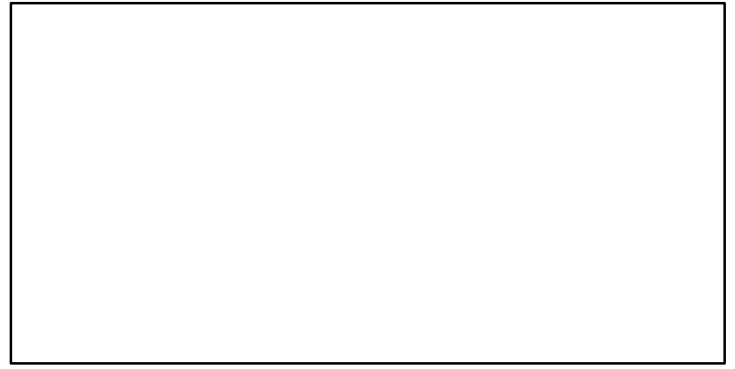


Walleye pollock Pacific Coast of Japan [APOLLPJPN]

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



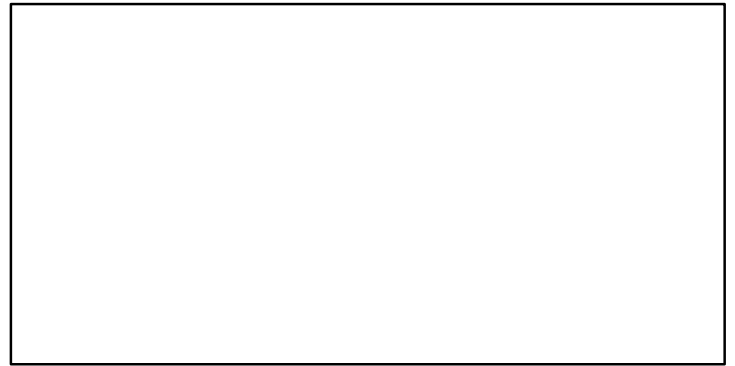
TAC*, Cpair*, Cadv*



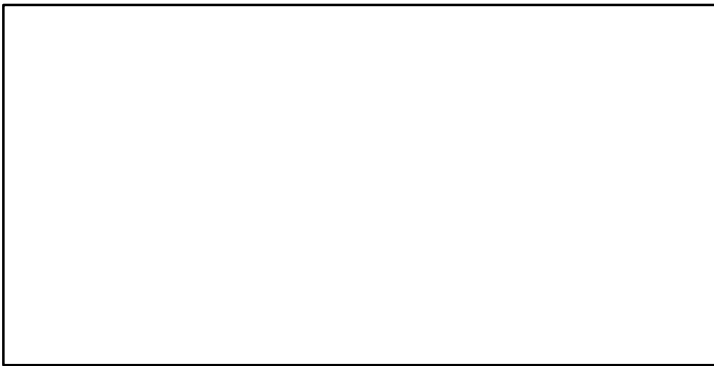
survB*



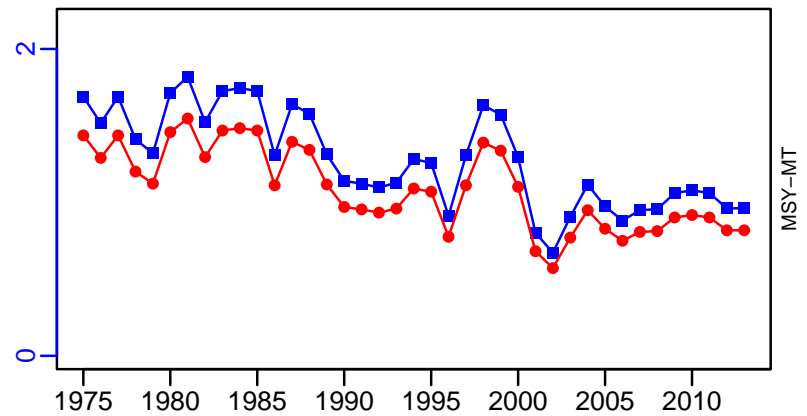
CPUE*



EFFORT*



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



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

Argentine hake Northern Argentina [ARGHAKENARG]

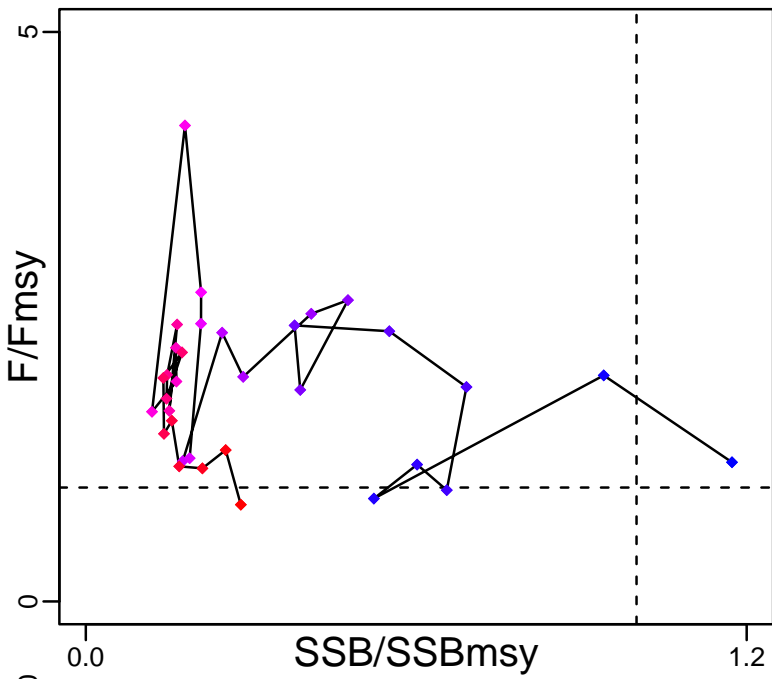
Metadata	
Scientific Name	Merluccius hubbsi
Current Assess ID	INIDEP-ARGHAKENARG-1985-2018-PARMA
Area	Northern Argentina
Management Authority	Consejo Federal Pesquero, Argentina national management
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero
Asmts in RAM	2014, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	423,330
Fmsy	Fmsy-1/yr	2018	0.392
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	138,112
M	M-1/yr	2018	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	230,000
Flim	-	-	-
ERlim	-	-	-

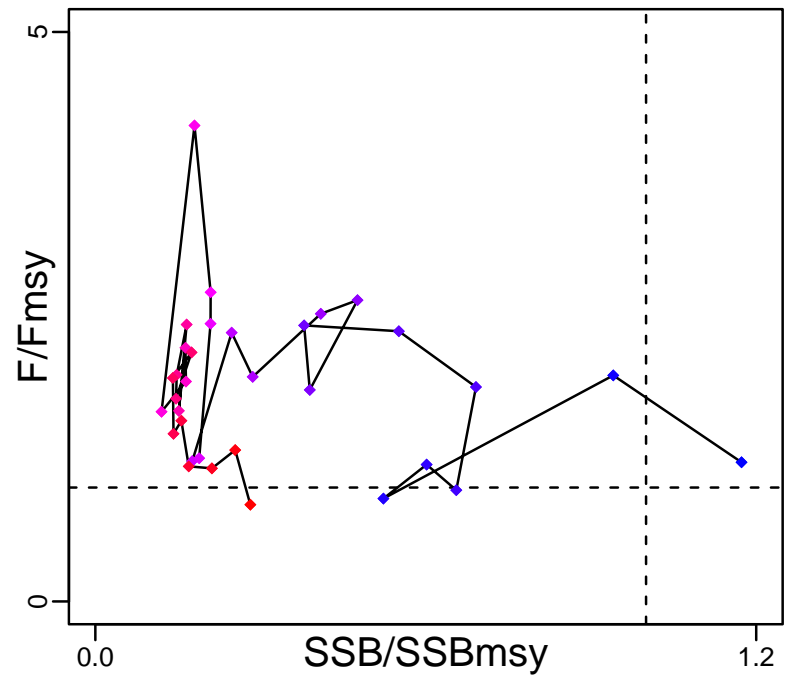
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	170,125	Both	-
SSB	SSB-MT	2018	119,165	Both	-
TN	-	-	-	-	-
R	R-E00	2018	300,085,000	-	-
F	F-1/yr	2018	0.333	Both	6-Mar
ER	ER-calc-ratio	2018	0.3	-	-
TC	TC-MT	2018	51,099		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.281		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.849		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Argentine hake Northern Argentina [ARGHAKENARG]

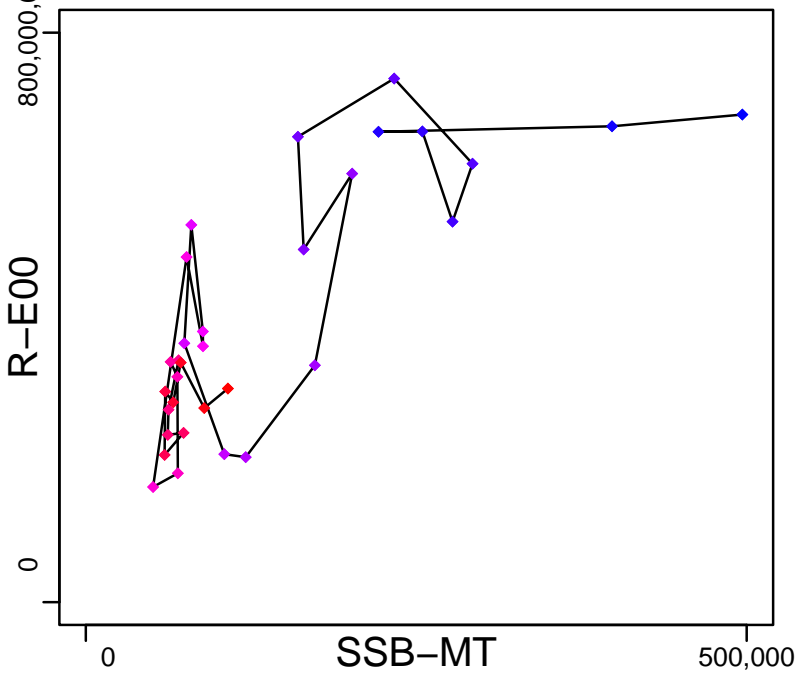
Kobe MSYpref (1985–2018–PARMA)



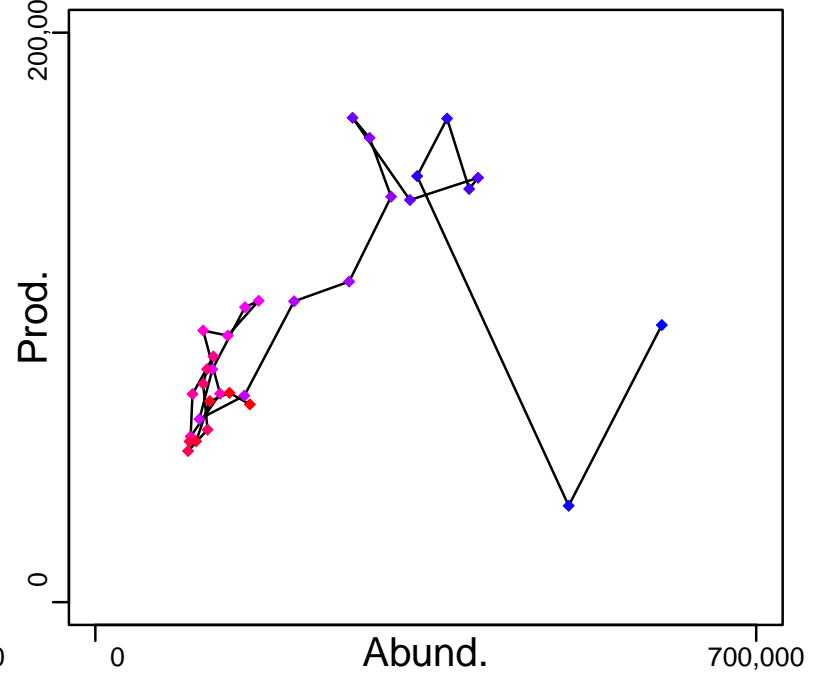
Kobe MGTpref (1985–2018–PARMA)



Spawner Recruit (1985–2018–PARMA)



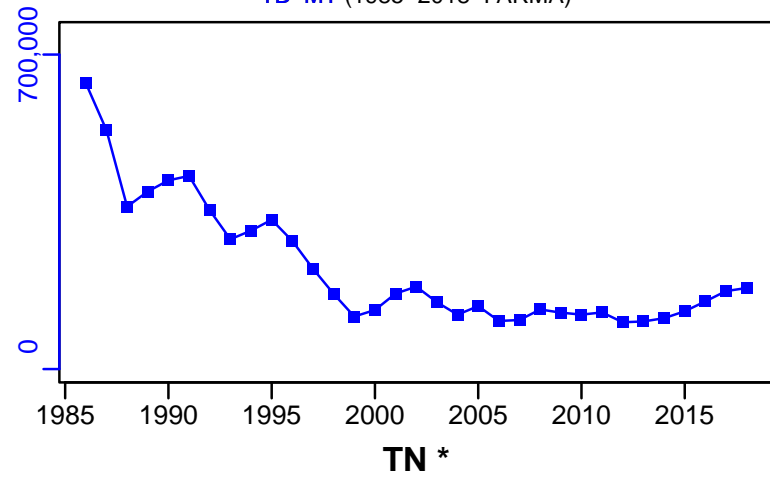
Production (1985–2018–PARMA)



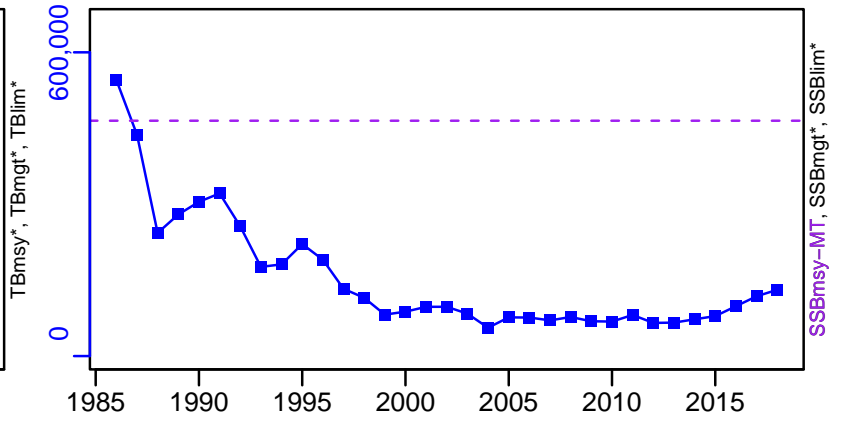
◆ Start Year ◆ End Year * No Data

Argentine hake Northern Argentina [ARGHAKENARG]

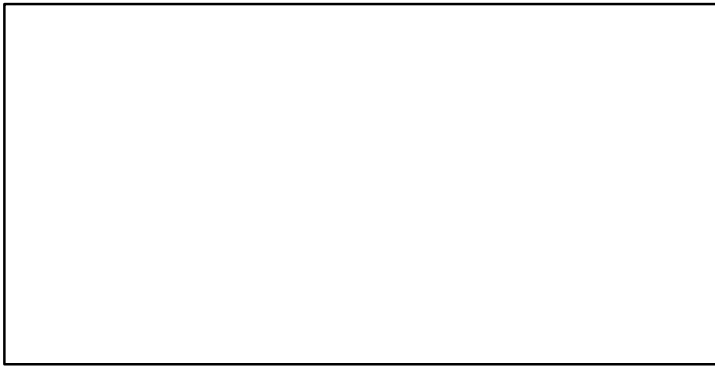
TB-MT (1985–2018–PARMA)



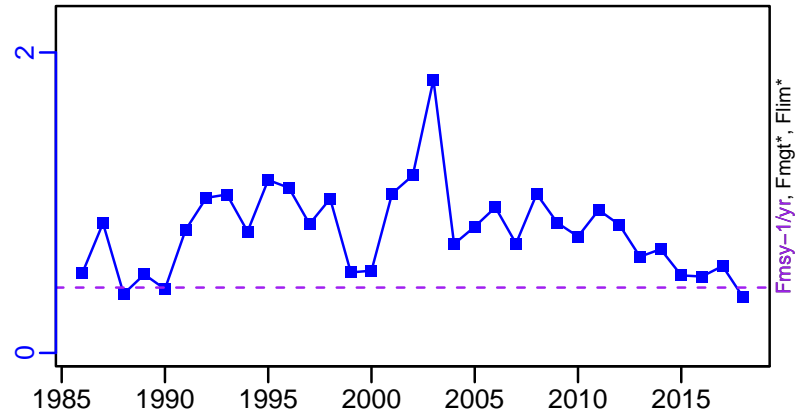
SSB-MT (1985–2018–PARMA)



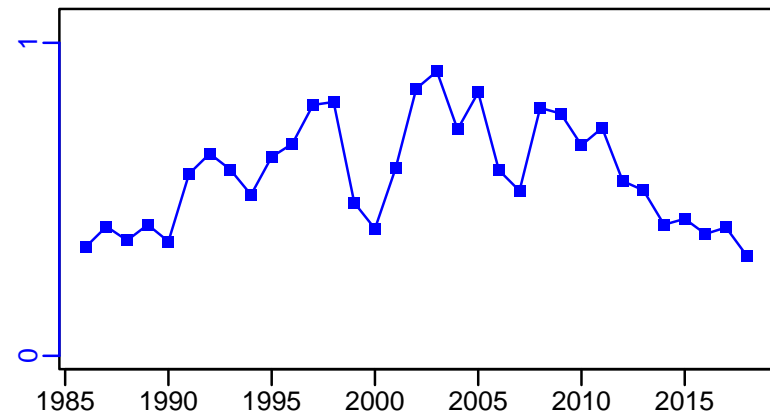
TN *



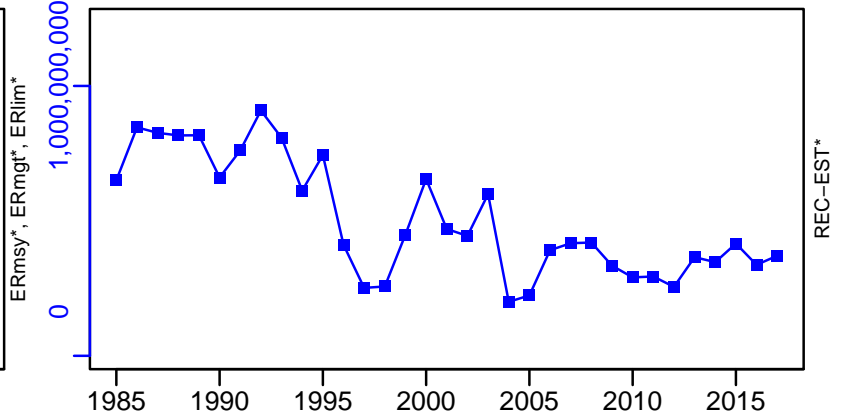
F-1/yr (1985–2018–PARMA)



ER-calc-ratio (1985–2018–PARMA)

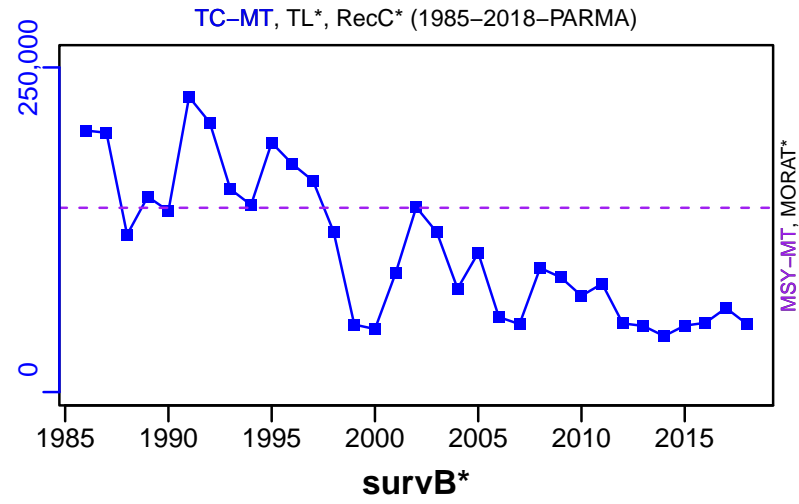


R-E00 (1985–2018–PARMA)

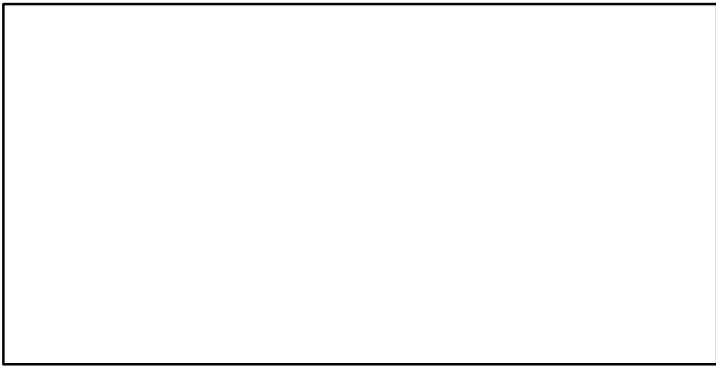
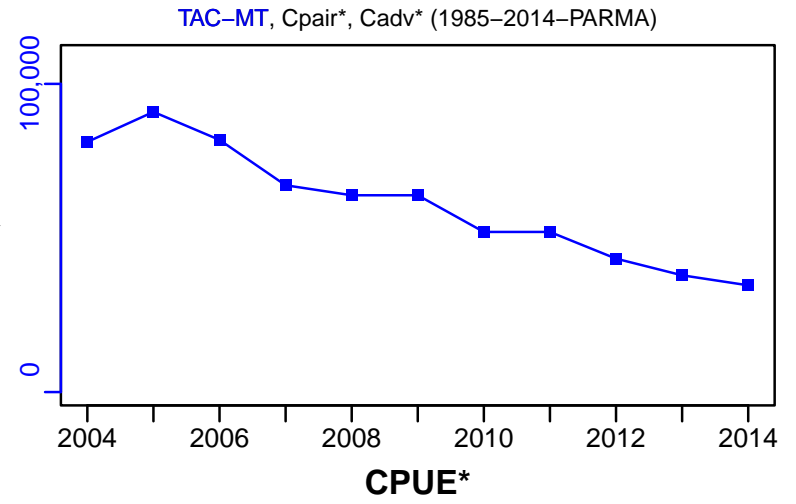


Argentine hake Northern Argentina [ARGHAKENARG]

TC-MT, TL*, RecC* (1985-2018-PARMA)



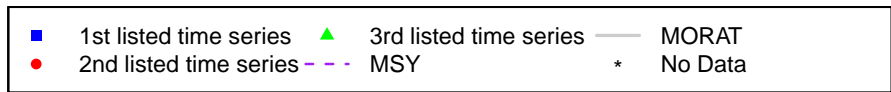
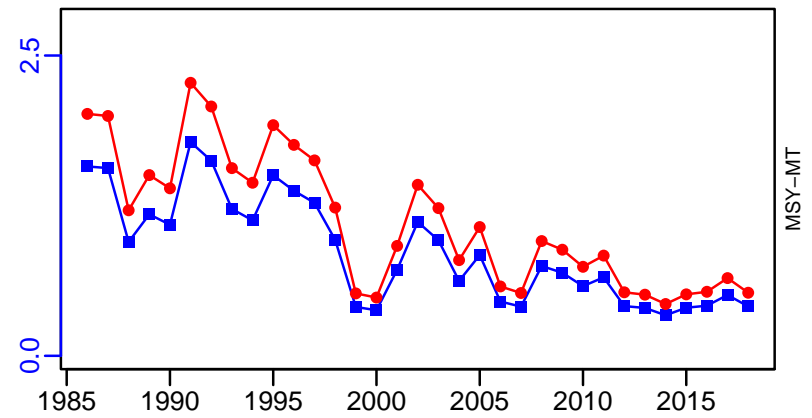
TAC-MT, Cpair*, Cadv* (1985-2014-PARMA)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985-2018-PARMA)



Argentine hake Southern Argentina [ARGHAKESARG]

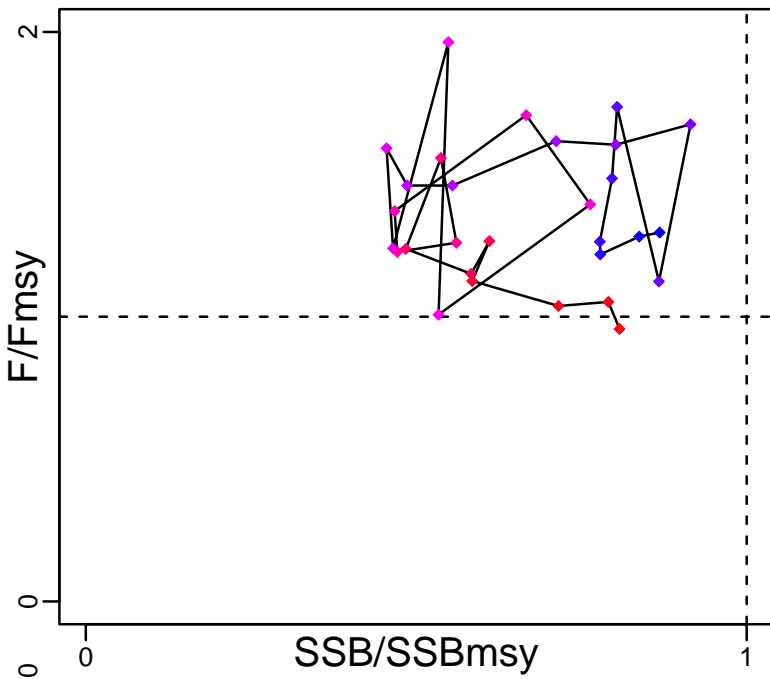
Metadata	
Scientific Name	Merluccius hubbsi
Current Assess ID	INIDEP-ARGHAKESARG-1989-2019-Parma
Area	Southern Argentina
Management Authority	Consejo Federal Pesquero, Argentina national management
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero
Asmts in RAM	2015, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	668,386
Fmsy	Fmsy-1/yr	2019	0.558
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6×10^5
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	527,521
M	M-1/yr	2019	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

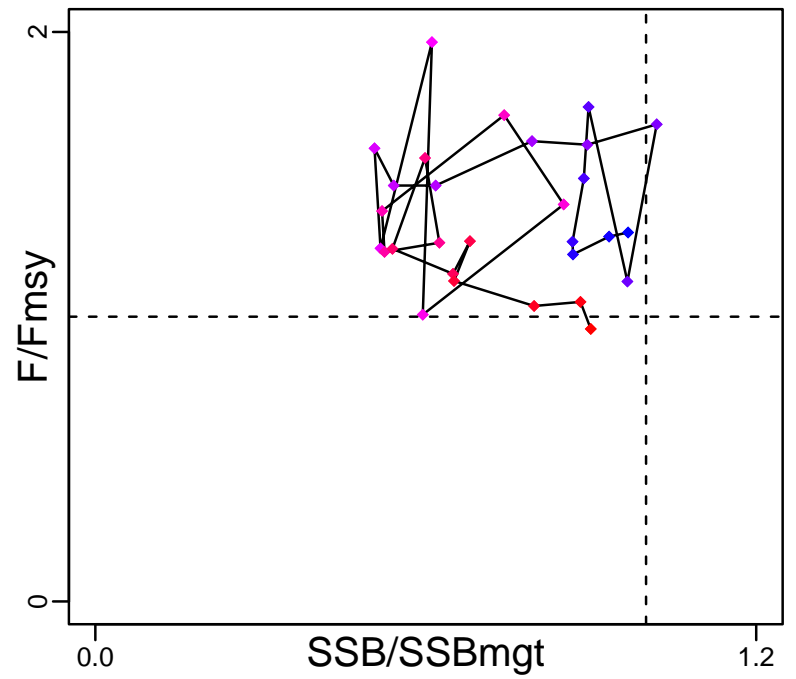
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	885,210	-	-
SSB	SSB-MT	2019	539,759	Both	-
TN	-	-	-	-	-
R	R-E00	2019	1,909,620,000	-	1
F	F-1/yr	2019	0.534	Both	6-Mar
ER	ER-ratio	2019	0.779	Both	-
TC	TC-MT	2019	420,278		
TL	TL-MT	2019	309,862		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.808		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.957		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.9		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Argentine hake Southern Argentina [ARGHAKESARG]

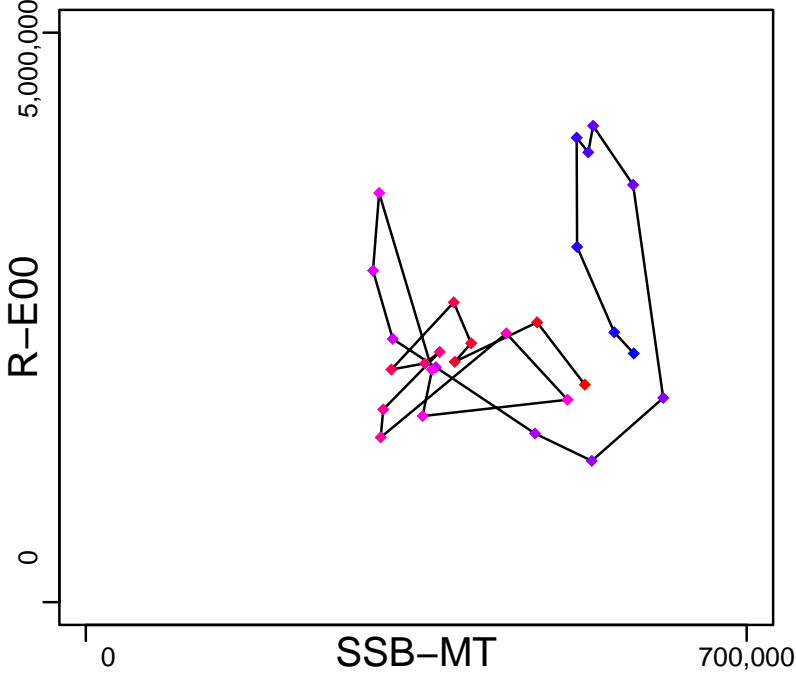
Kobe MSYpref (1989–2019–Parma)



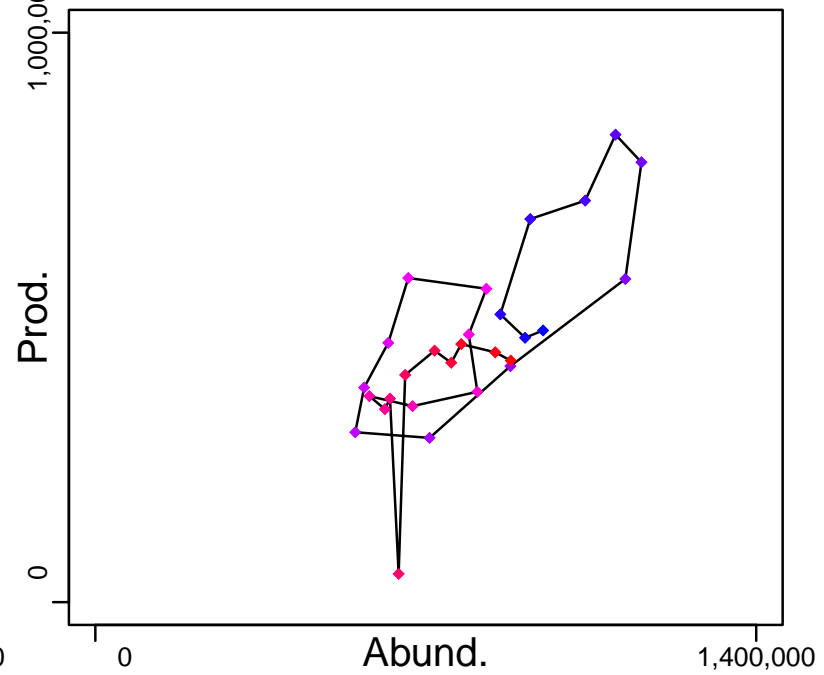
Kobe MGTpref (1989–2019–Parma)



Spawner Recruit (1989–2019–Parma)



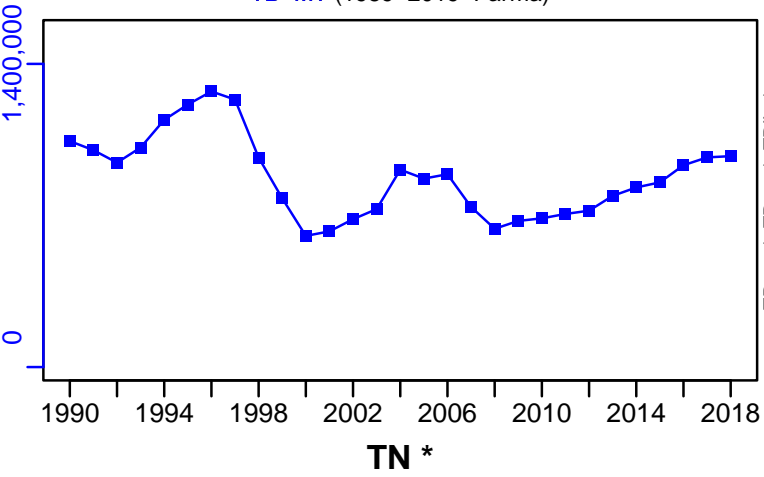
Production (1989–2019–Parma)



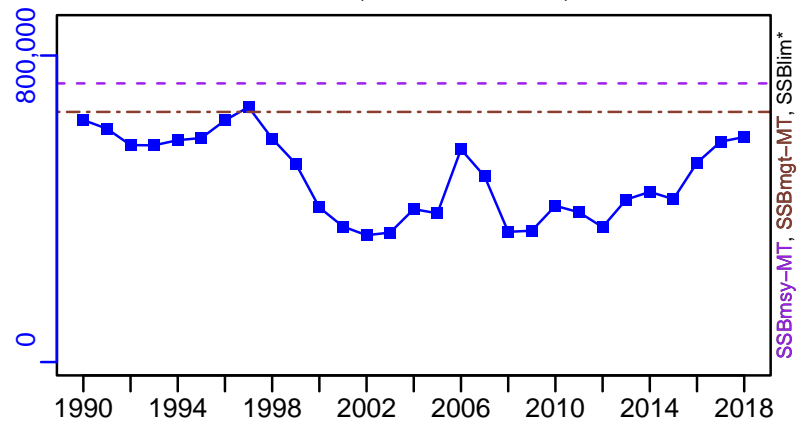
◆ Start Year ◆ End Year * No Data

Argentine hake Southern Argentina [ARGHAKESARG]

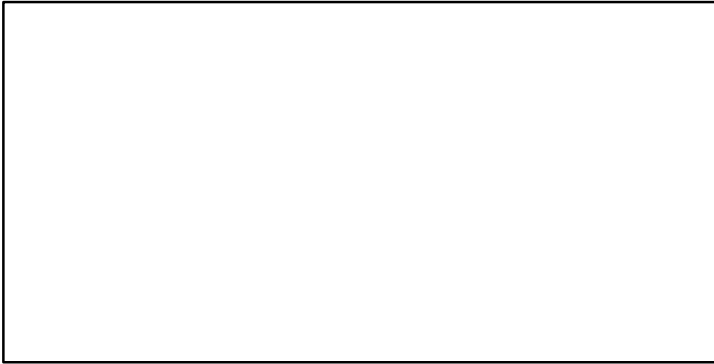
TB-MT (1989–2019–Parma)



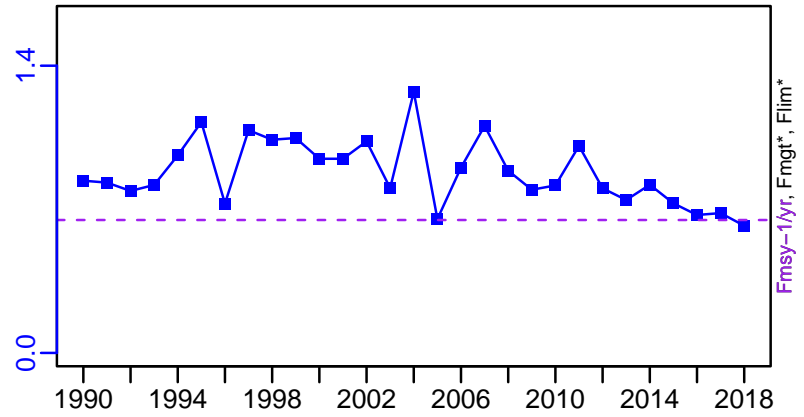
SSB-MT (1989–2019–Parma)



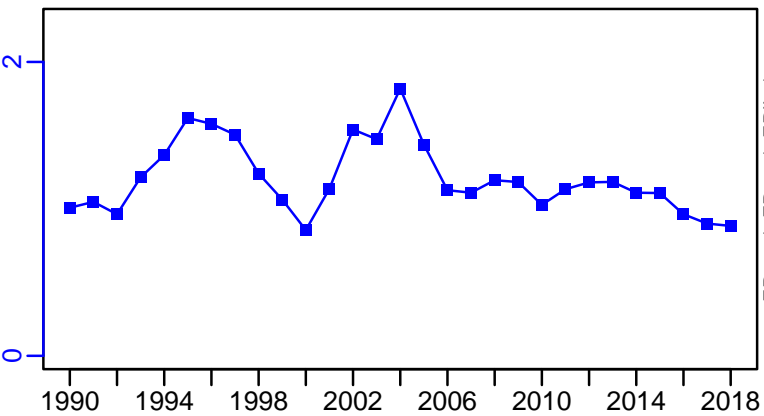
TN *



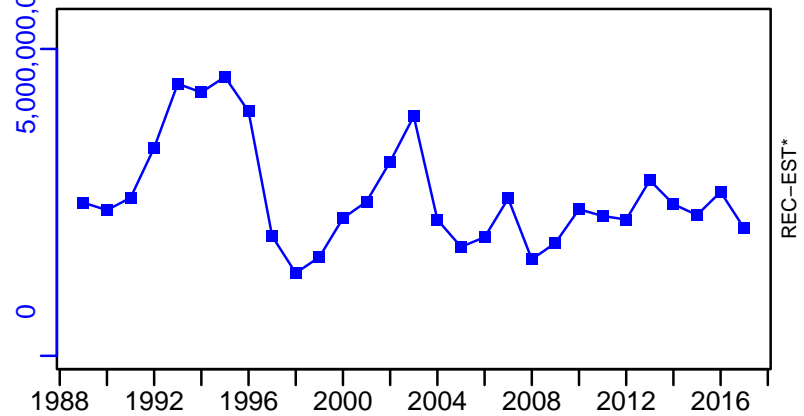
F-1/yr (1989–2019–Parma)



ER-ratio (1989–2019–Parma)



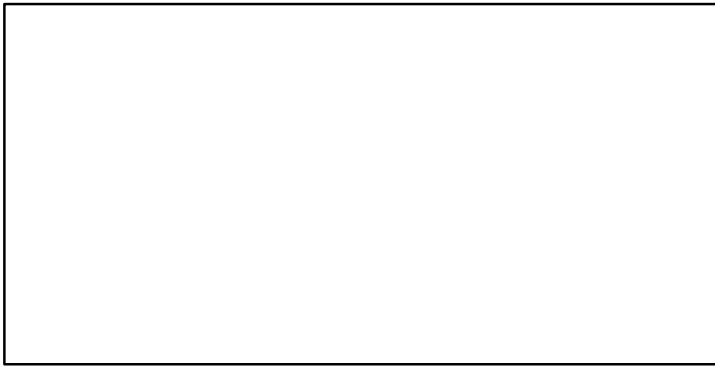
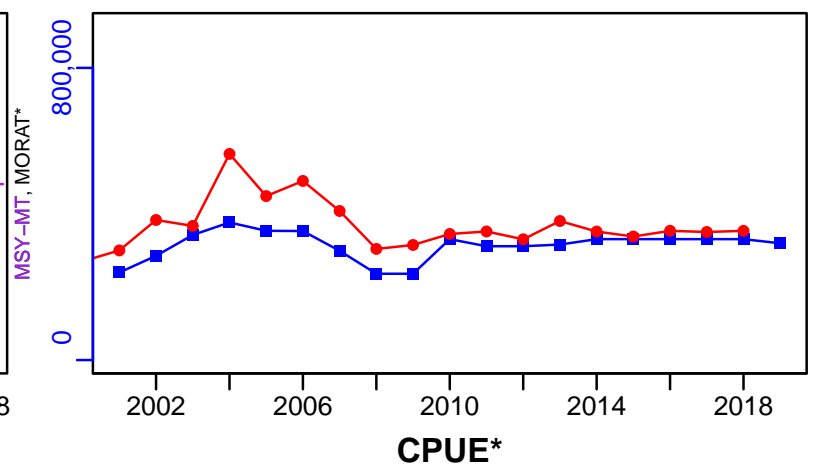
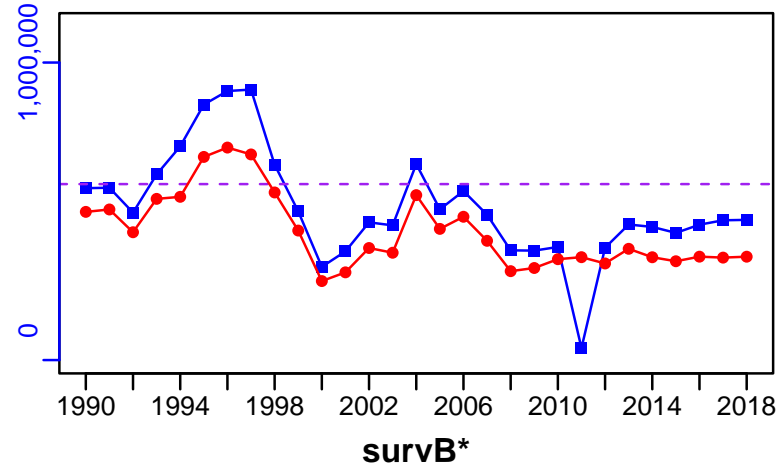
R-E00 (1989–2019–Parma)



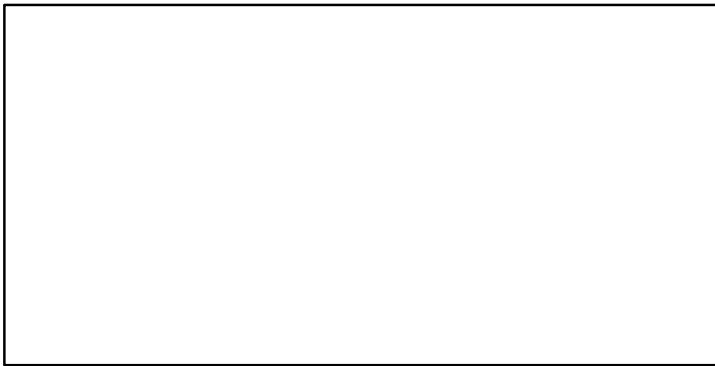
Argentine hake Southern Argentina [ARGHAKESARG]

TC-MT, TL-MT, RecC* (1989-2019-Parma)

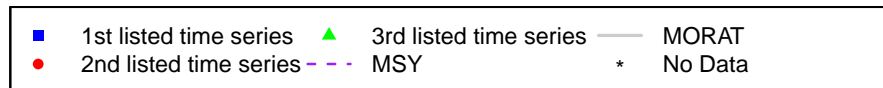
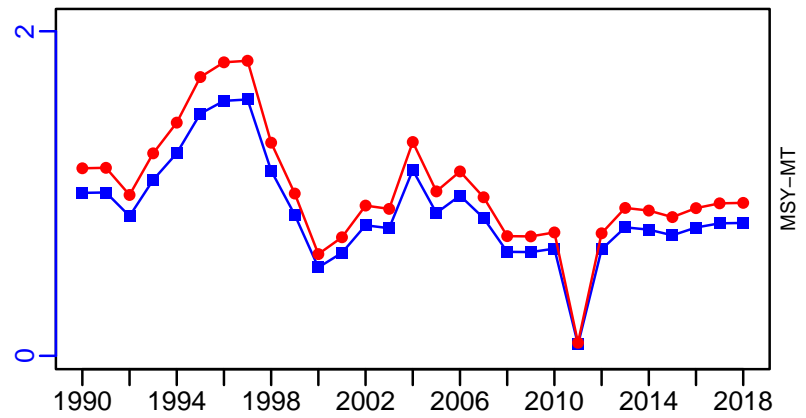
TAC-MT, Cpair-MT, Cadv* (1989-2019-Parma)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1989-2019-Parma)



Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

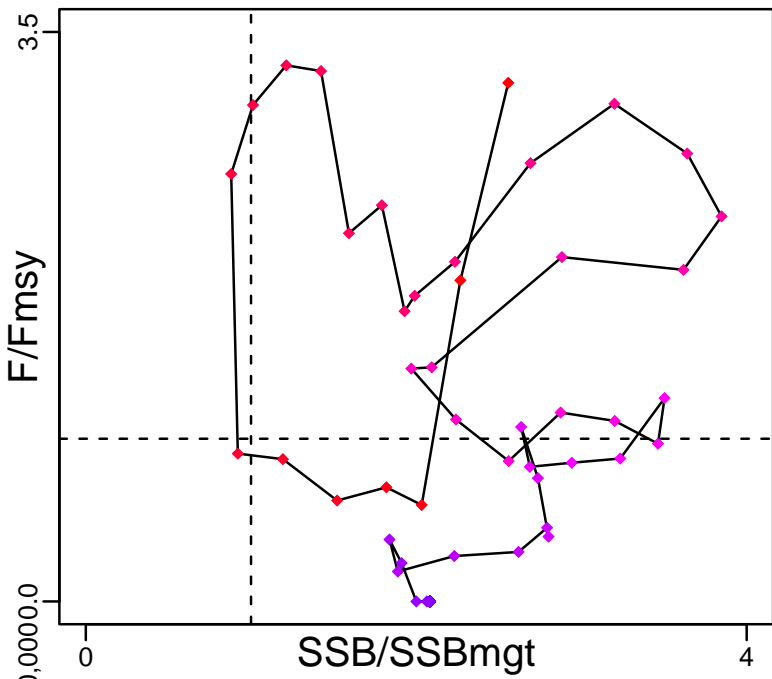
Metadata	
Scientific Name	Macruronus novaezelandiae
Current Assess ID	CSIRO-BGRDRNSWWA-1960-2020-MOESENER
Area	New South Wales to Western Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research Organization
Asmts in RAM	2012, 2017, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	14,341
Fmsy	Fmsy-1/yr	2020	0.174
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	17,974
Fmgt	Fmgt-1/yr	2020	0.143
ERmgt	-	-	-
TB0	TB0-MT	2020	99,797
SSB0	SSB0-MT	2020	37,445
MSY	MSY-MT	2017	5506
M	M-1/yr	2017	0.178
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	7489
Flim	-	-	-
ERlim	-	-	-

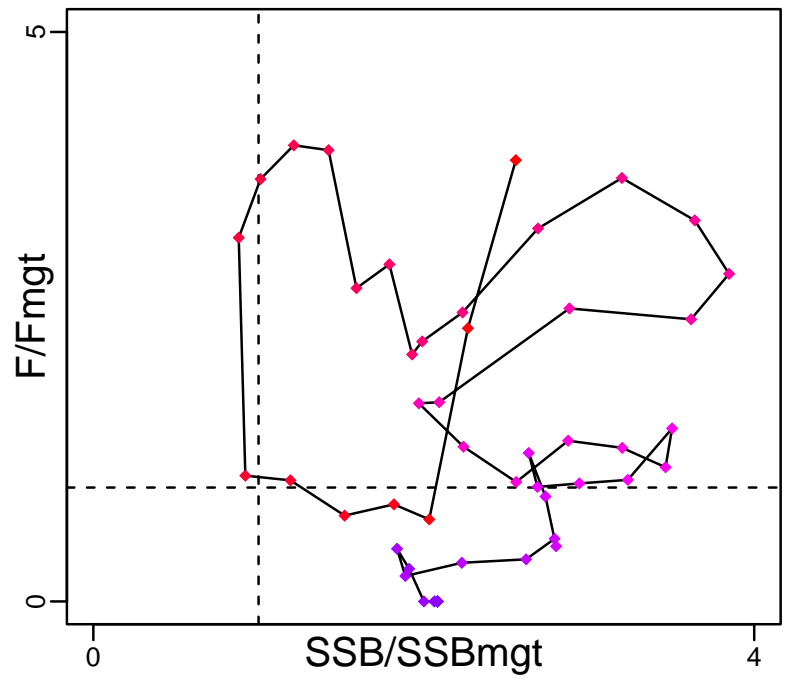
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	161,744	-	-
SSB	SSB-MT	2020	45,960	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.01×10^{13}	-	-
F	F-1/yr	2020	0.553	-	-
ER	ER-ratio	2020	0.041	-	-
TC	TC-MT	2020	6669		
TL	TL-MT	2017	1692		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	3.115		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	3.187		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	2.557		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	3.874		
ER/ERmgt	-	-	-		

Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

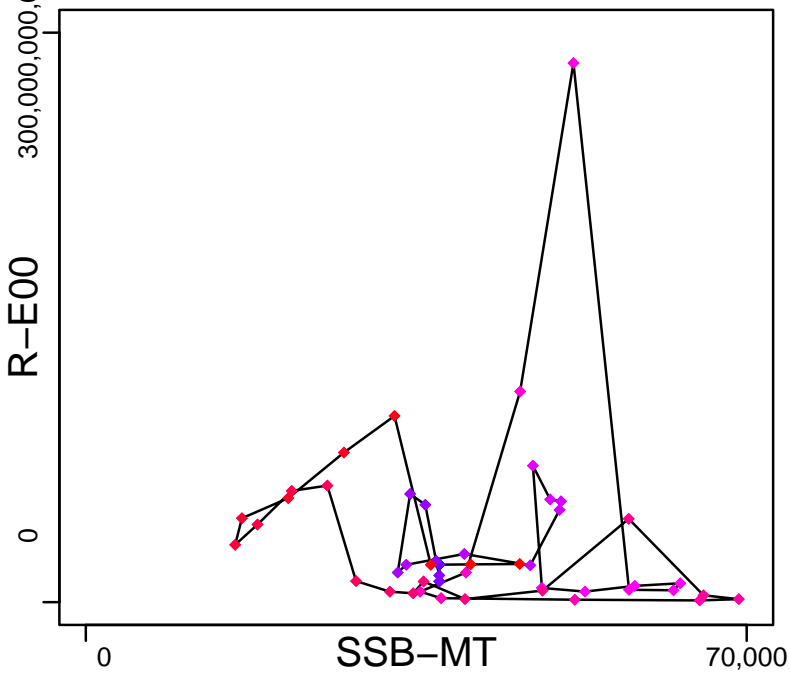
Kobe MSYpref (1960–2020–MOESENEDER)



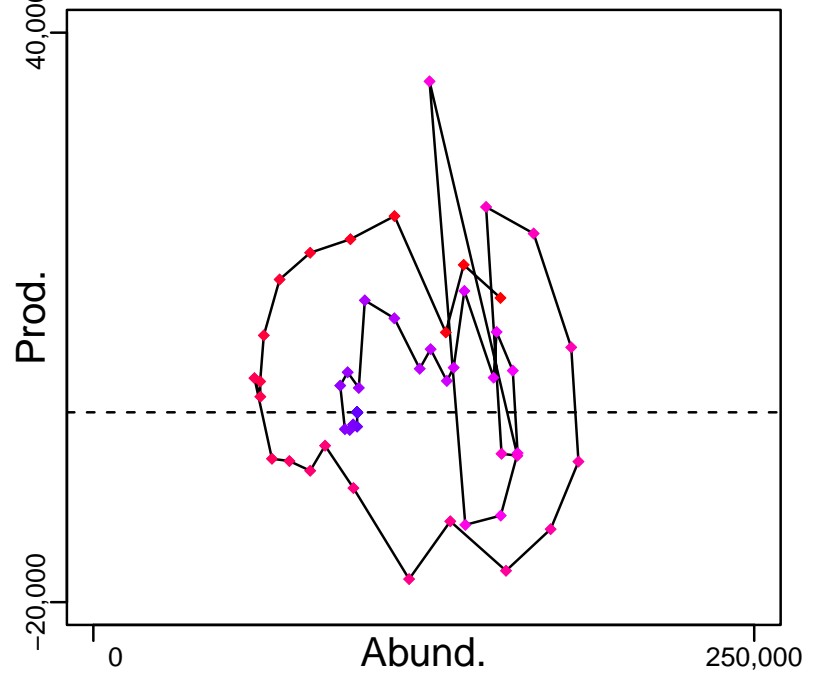
Kobe MGTpref (1960–2020–MOESENEDER)



Spawner Recruit (1960–2020–MOESENEDER)



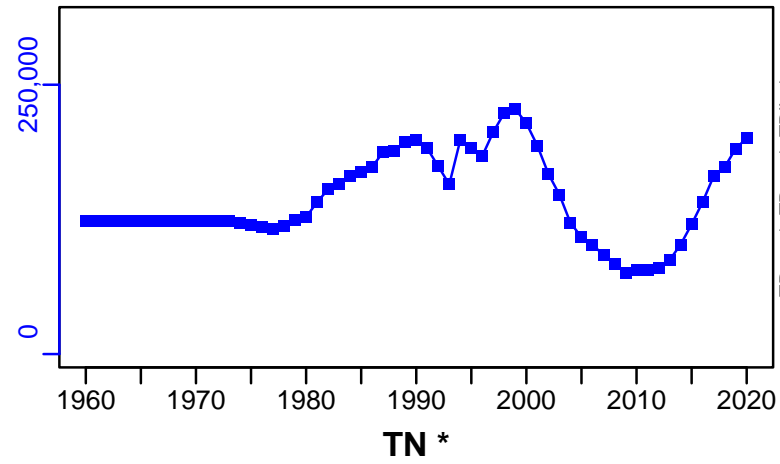
Production (1960–2020–MOESENEDER)



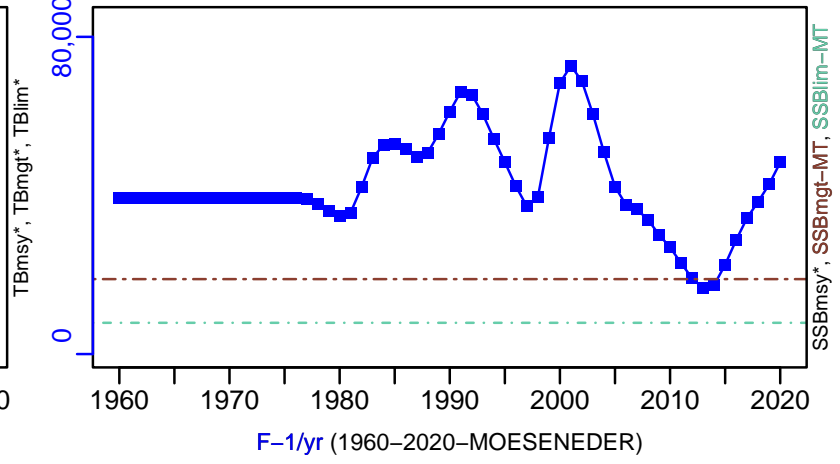
◆ Start Year ◆ End Year * No Data

Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

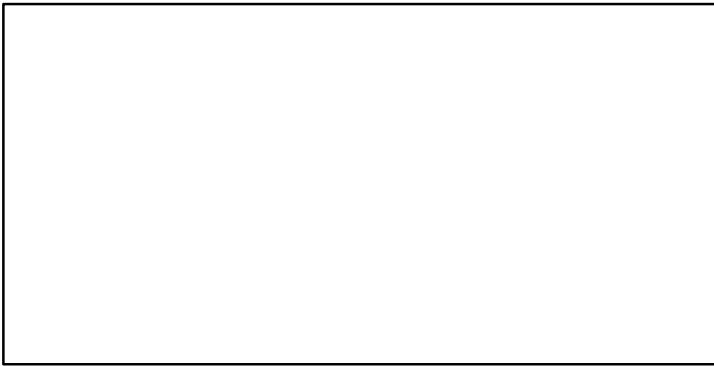
TB-MT (1960–2020–MOESENEDER)



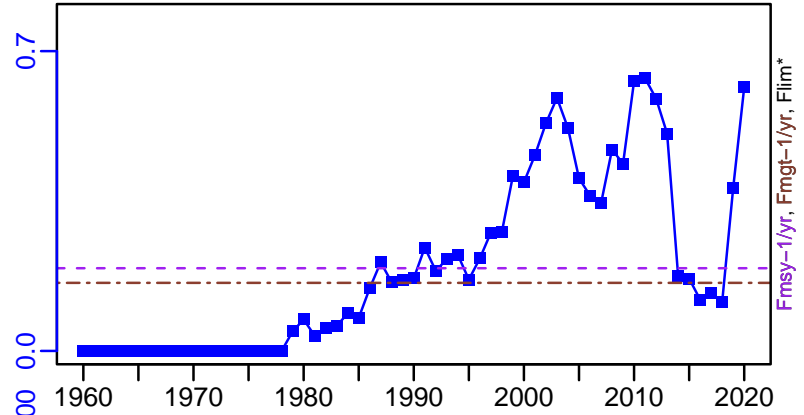
SSB-MT (1960–2020–MOESENEDER)



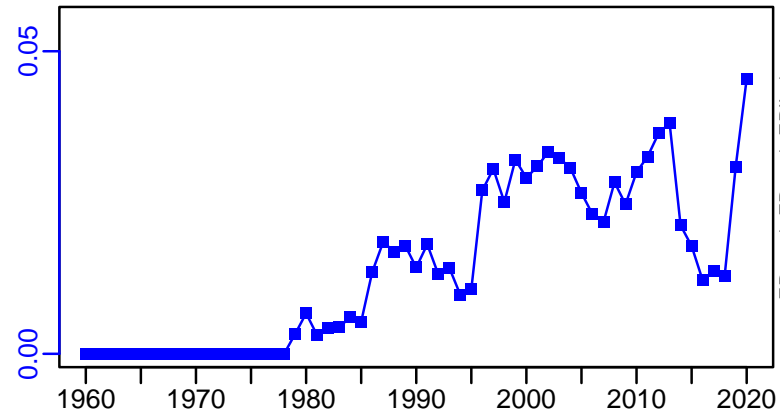
TN *



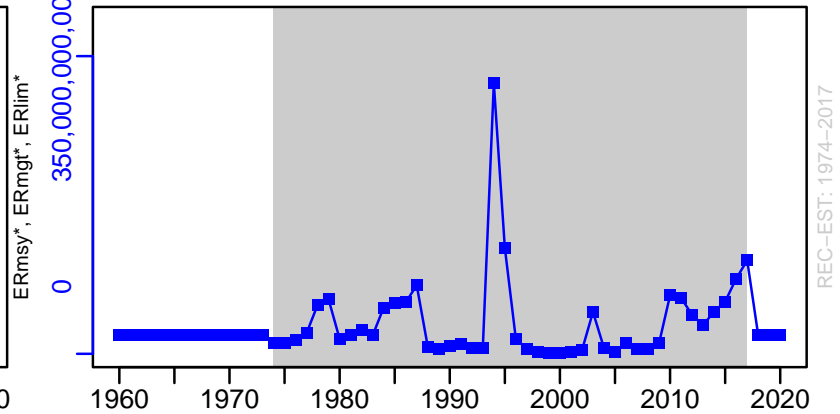
F-1/yr (1960–2020–MOESENEDER)



ER-ratio (1960–2020–MOESENEDER)

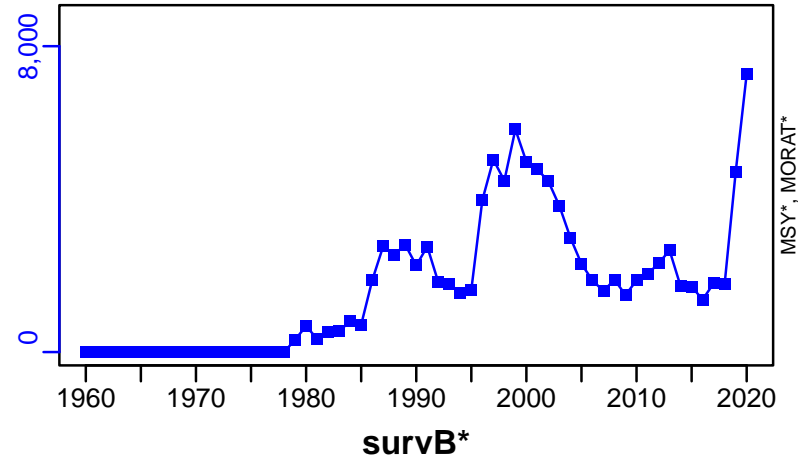


R-E00 (1960–2020–MOESENEDER)

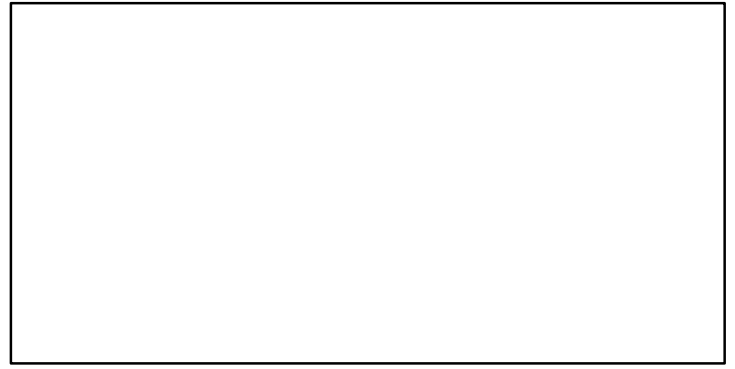


Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

TC-MT, TL*, RecC* (1960–2020–MOESENEDER)



TAC*, Cpair*, Cadv*



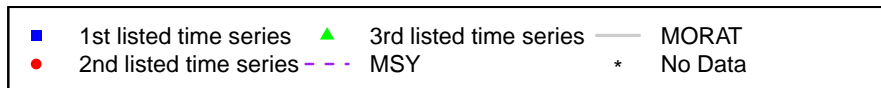
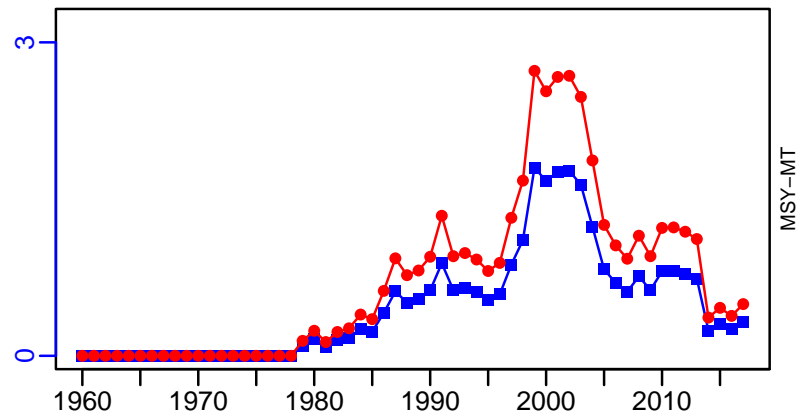
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1960–2017–MOESENEDER)



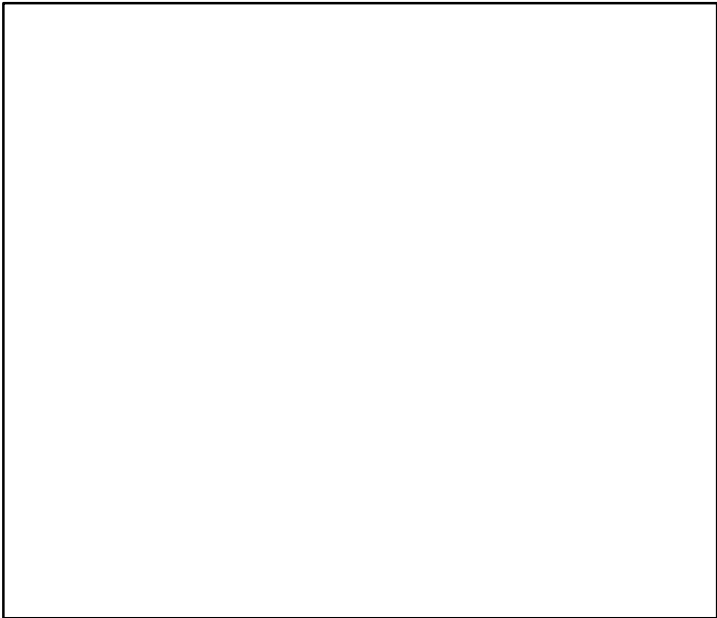
Benguela hake Central West Africa Angola [BHAKECWAAGO]

Metadata	
Scientific Name	Merluccius polli
Current Assess ID	FAO-DR-BHAKECWAAGO-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, 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	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	4675		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

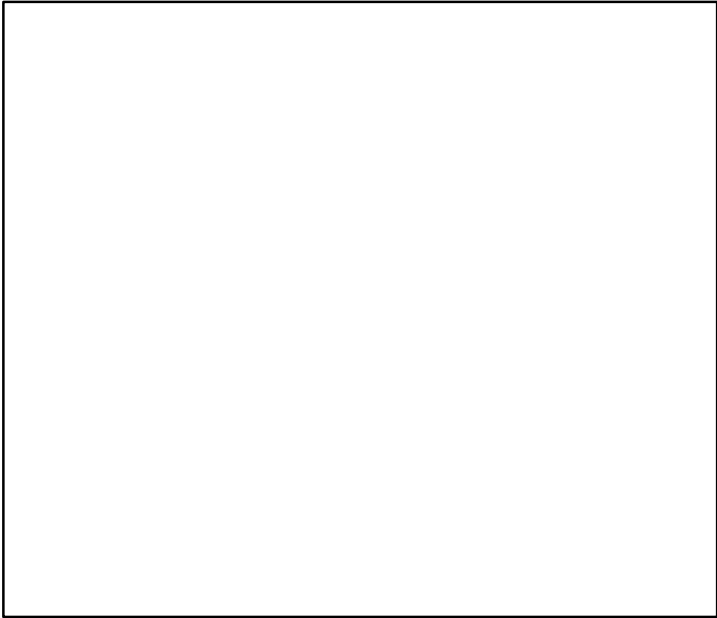
Kobe MSY*



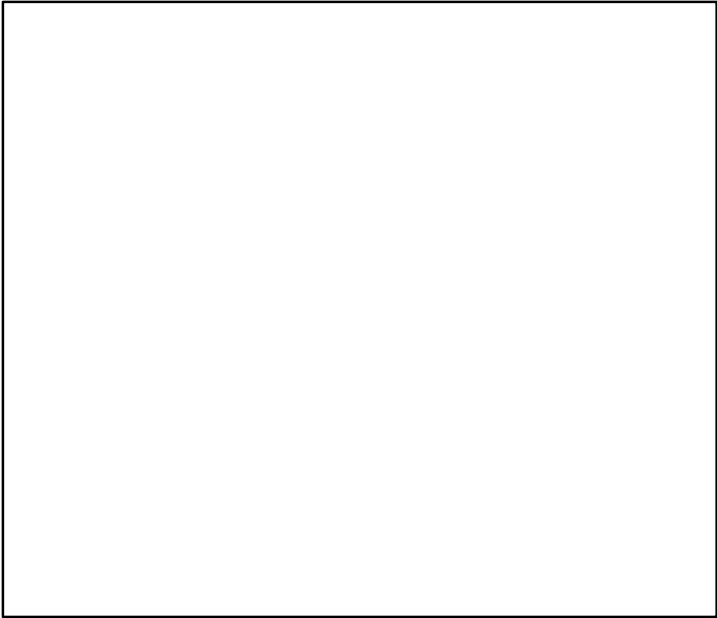
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

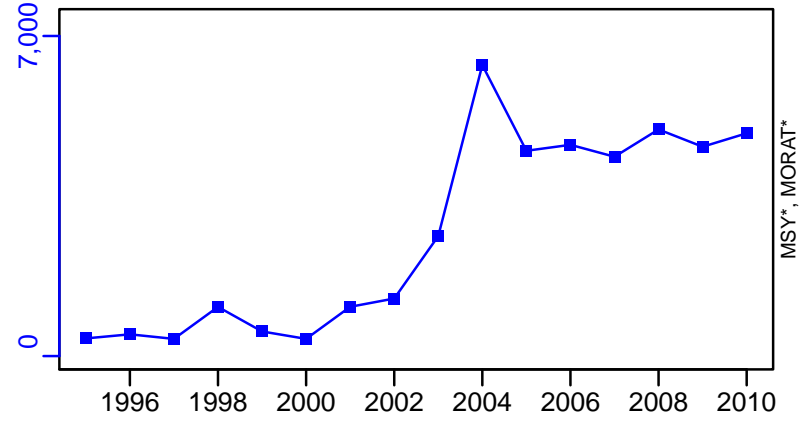


Recruits*

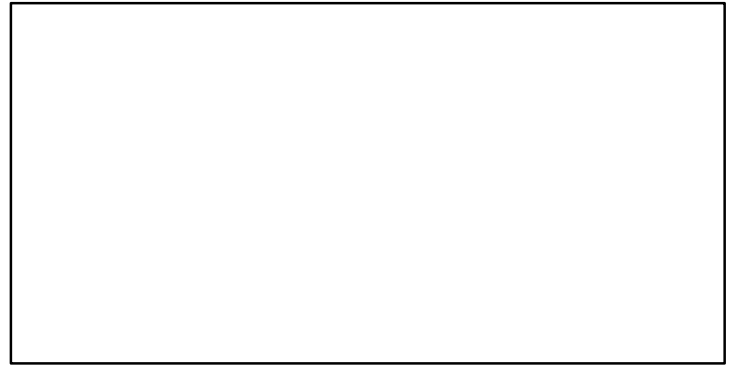


Benguela hake Central West Africa Angola [BHAKECWAAGO]

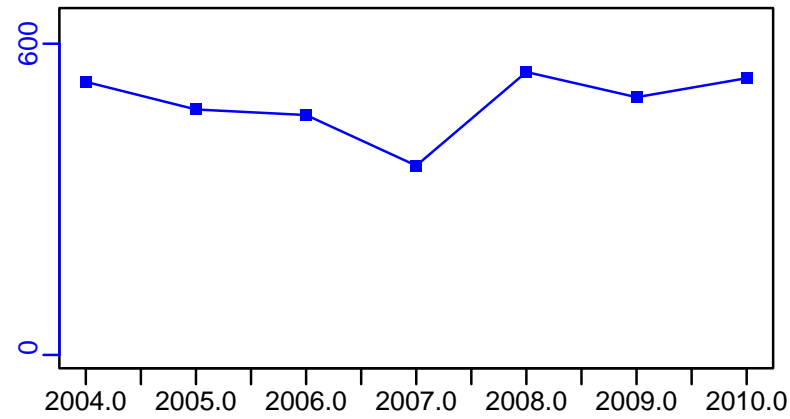
TC-MT, TL*, RecC* (1994-2010-ASHBROOK)



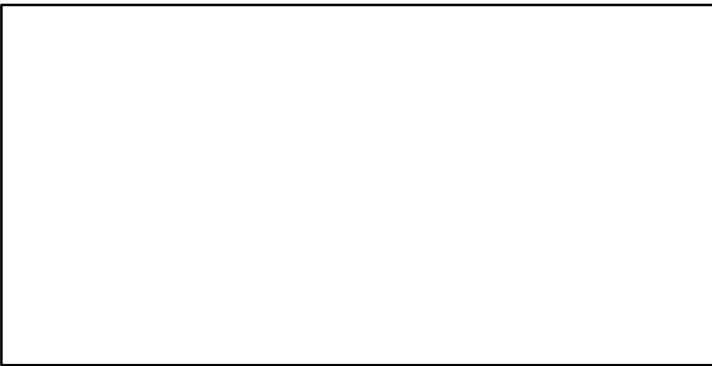
TAC*, Cpair*, Cadv*



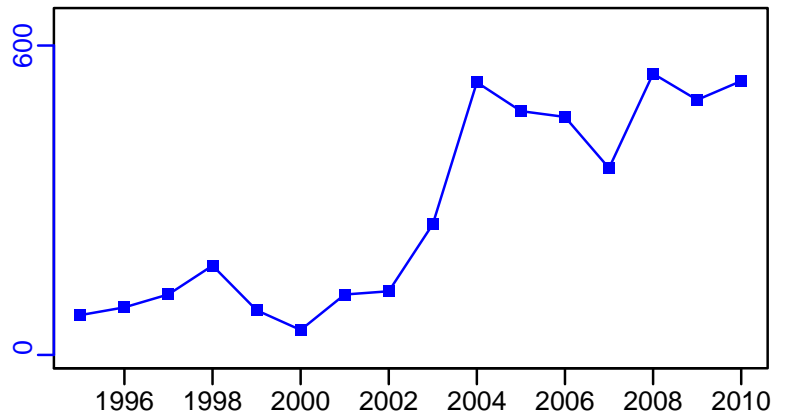
survB_index-1-index (1994-2010-ASHBROOK)



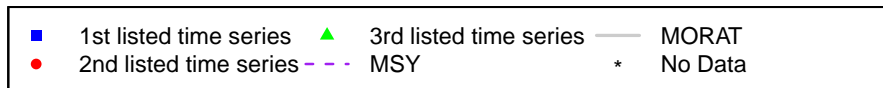
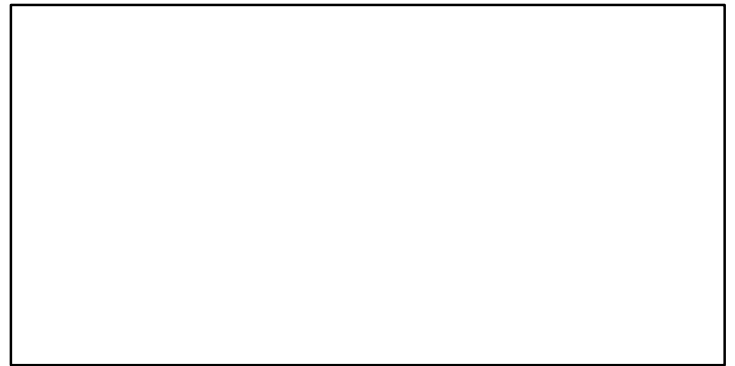
EFFORT*



CPUE-index (1994-2010-ASHBROOK)



CdivMSY*



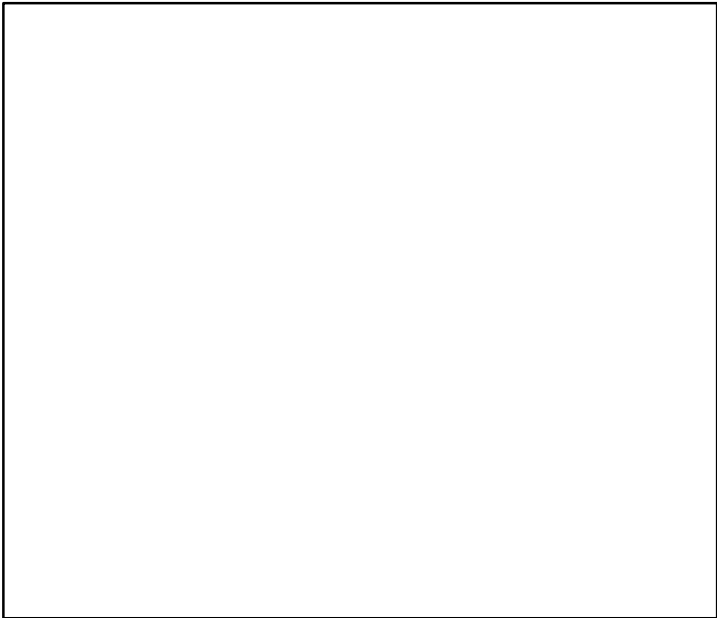
Blue ling ICES 1-2-3a-4a-8-9-12 [BLINGI-II-IIIa-IVa-VIII-IX-XII]

Metadata	
Scientific Name	Molva dypterygia
Current Assess ID	WGDEEP-BLINGI-II-IIIa-IVa-VIII-IX-XII-1988-2018-ICESIMP2021
Area	ICES 1-2-3a-4a-8-9-12
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2015, 2016, 2018

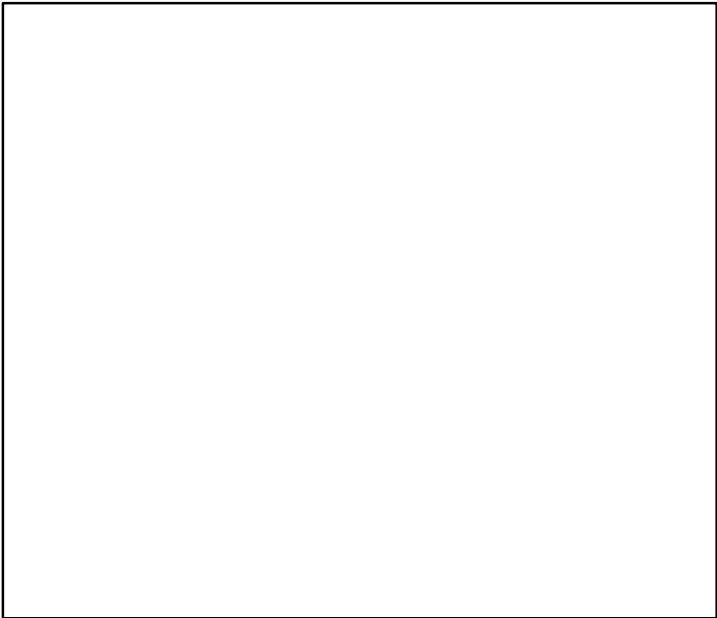
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	240		
TL	TL-MT	2018	348		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

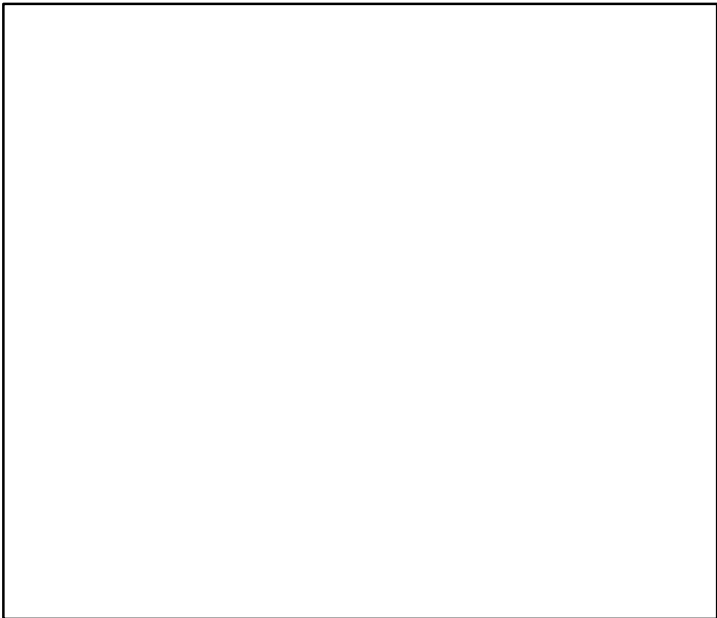
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

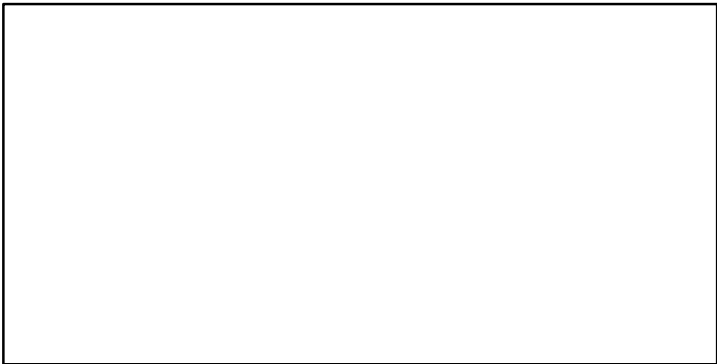
TB*



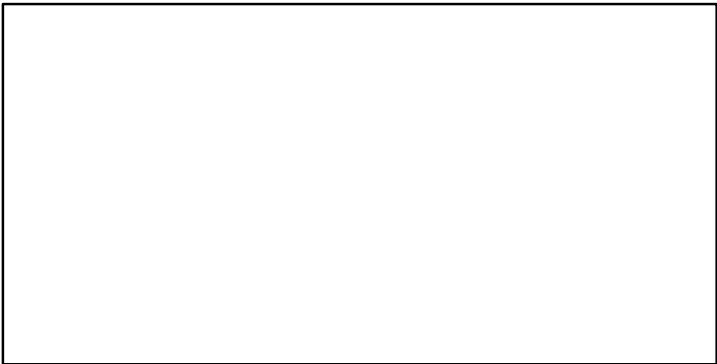
SSB*



TN *



F*



ER*



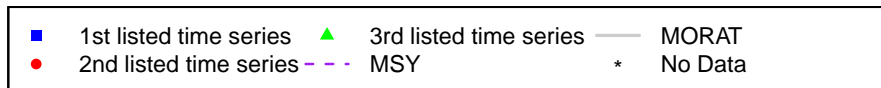
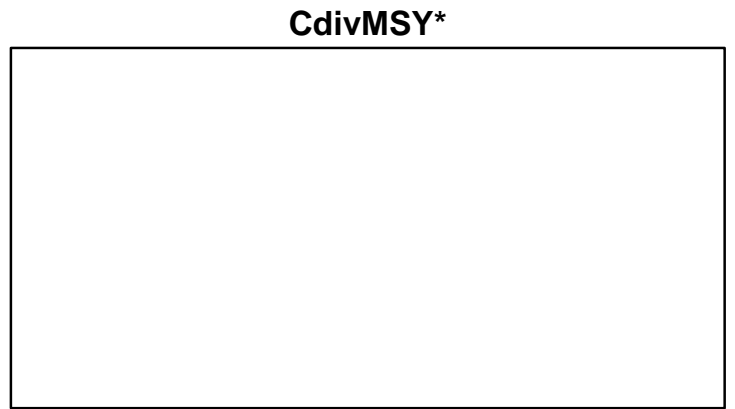
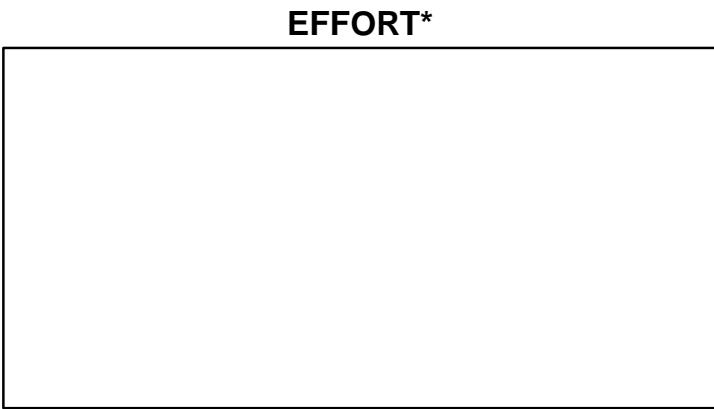
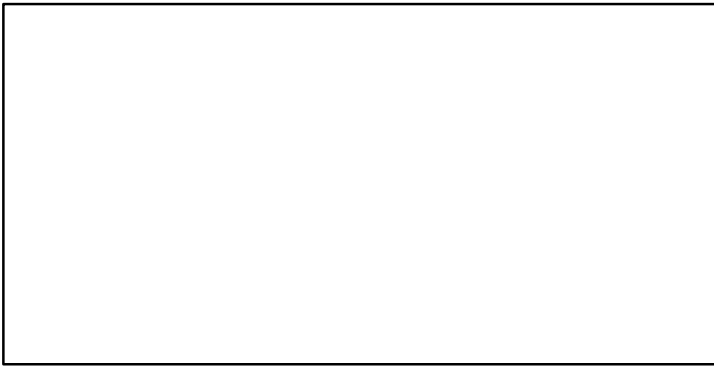
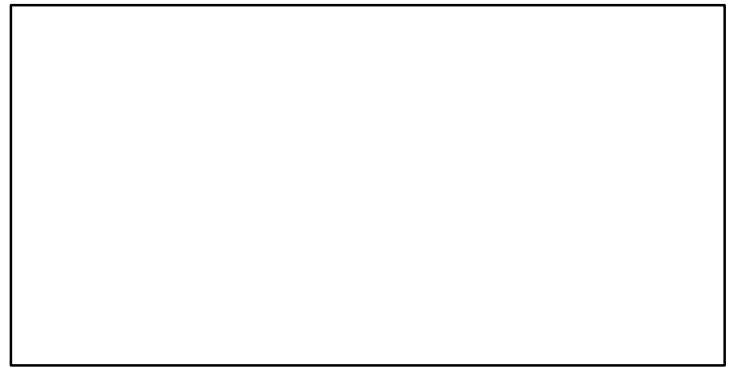
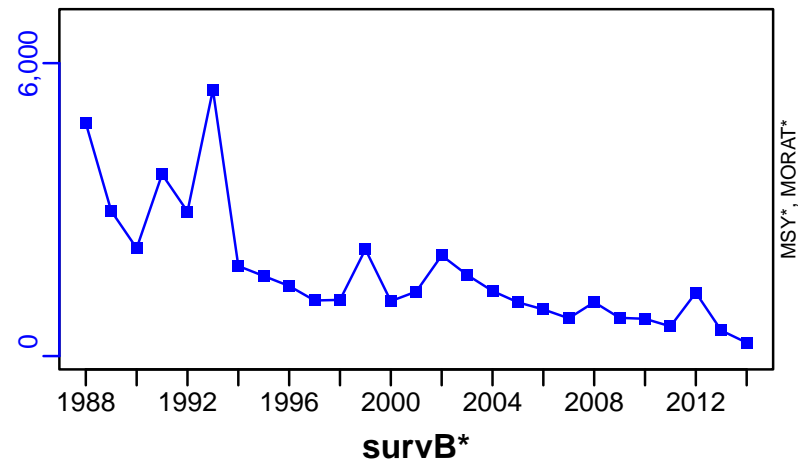
Recruits*



Blue ling ICES 1-2-3a-4a-8-9-12 [BLINGI-II-IIIa-IVa-VIII-IX-XII]

TC-MT, TL*, RecC* (1988-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



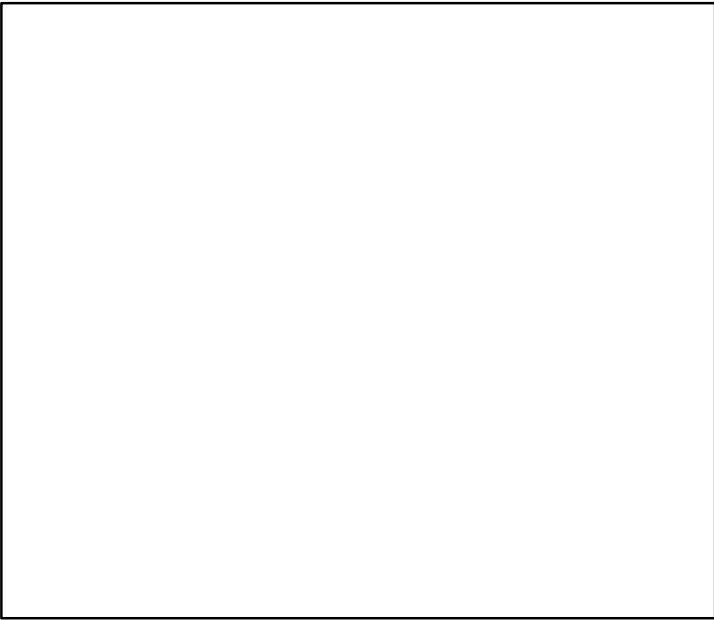
Blue ling ICES 5a-14 [BLINGVa-XIV]

Metadata	
Scientific Name	Molva dypterygia
Current Assess ID	WGDEEP-BLINGVa-XIV-1973-2020-ICESIMP2021-2
Area	ICES 5a-14
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2018, 2020, 2016, 2016, 2017

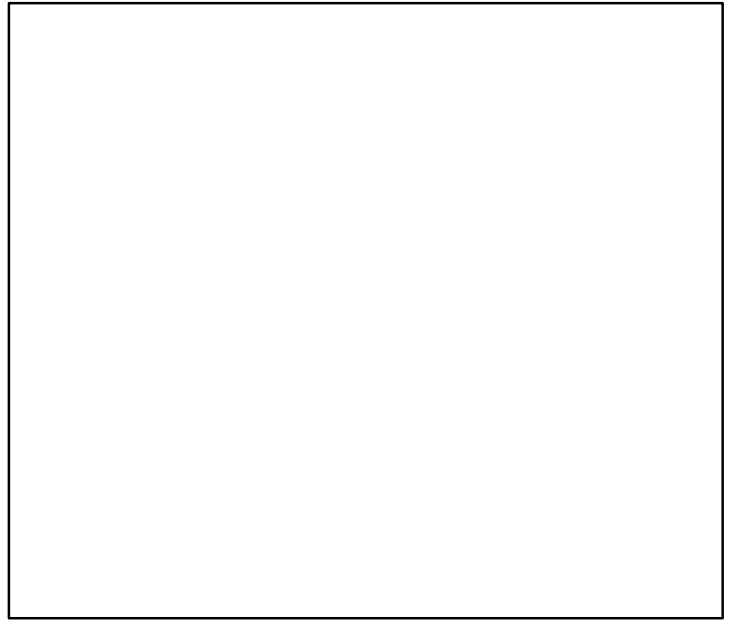
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2020	717	-	-
TN	-	-	-	-	-
R	R-E00	2020	28	-	-
F	F-1/yr	2016	0.834	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	376		
TL	TL-MT	2016	1810		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

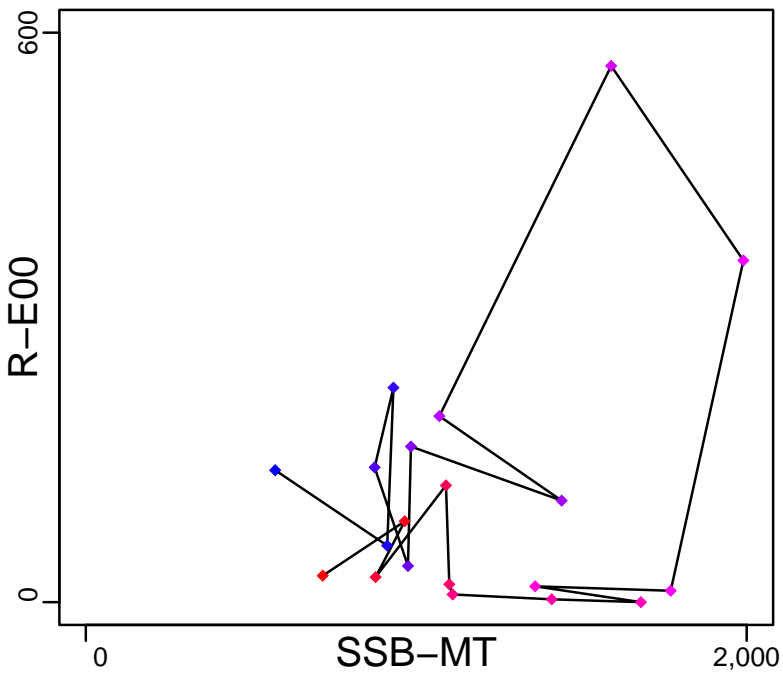
Kobe MSY*



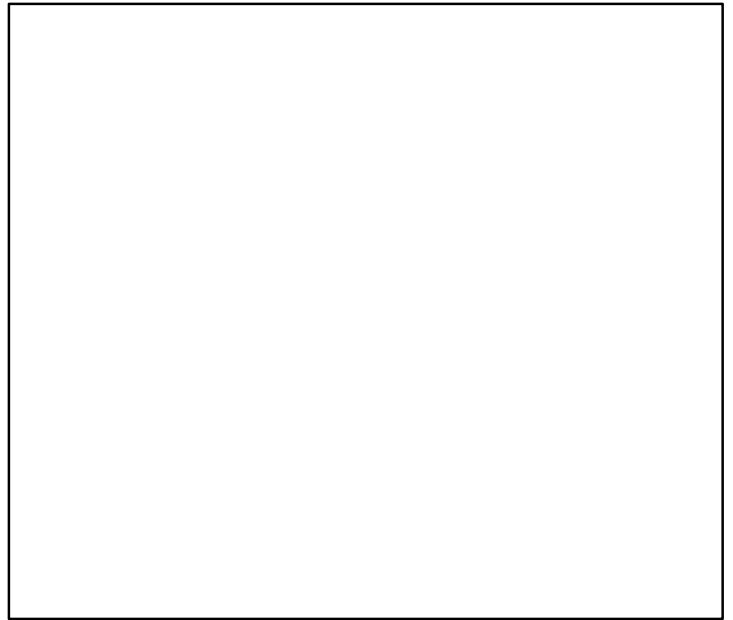
Kobe MGT*



Spawner Recruit (1973–2020–ICESIMP2021–2)



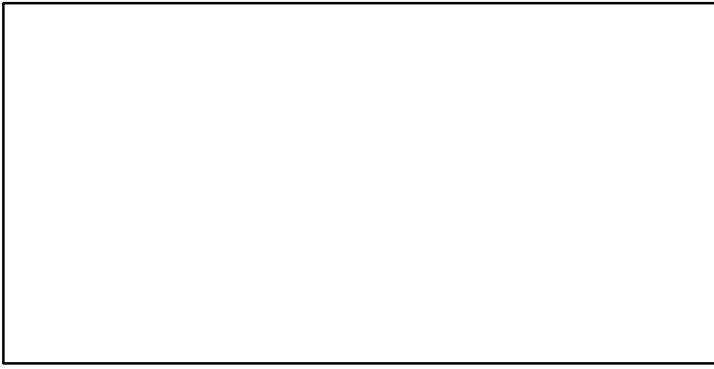
Production*



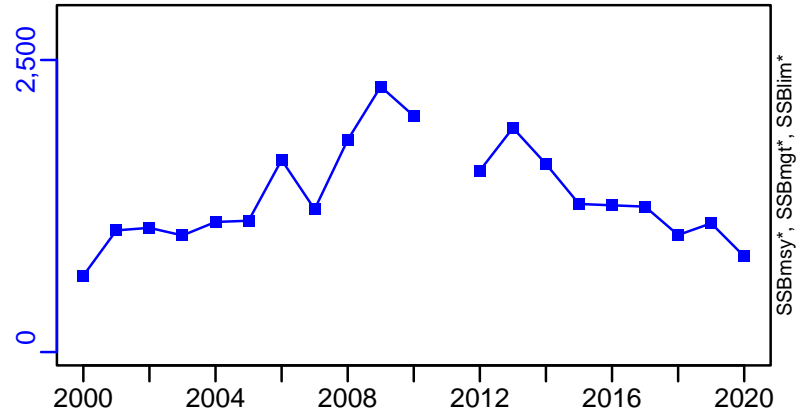
◆ Start Year ◆ End Year * No Data

Blue ling ICES 5a-14 [BLINGVa-XIV]

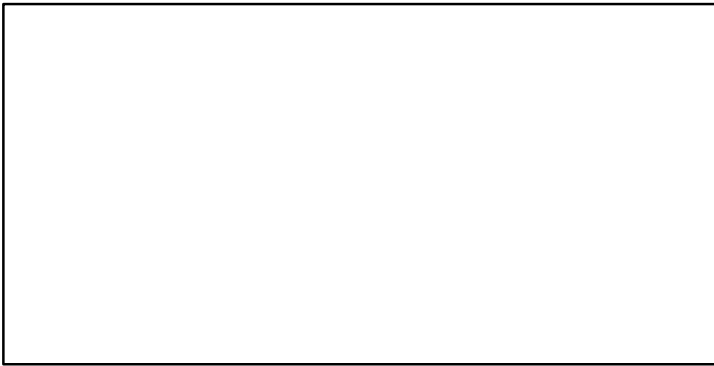
TB*



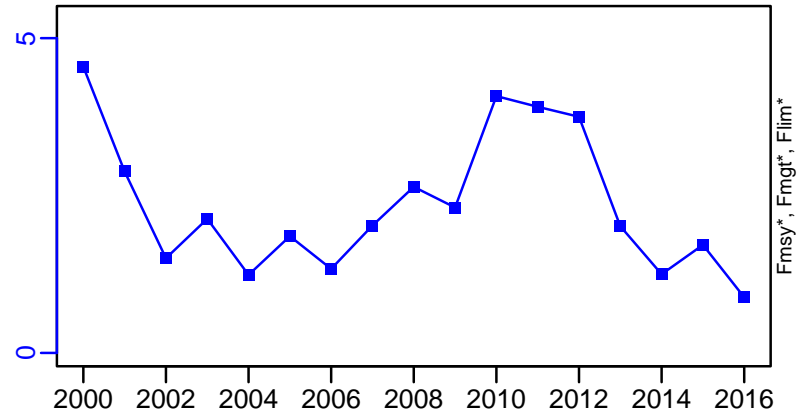
SSB-MT (1973-2020-ICESIMP2021-2)



TN *



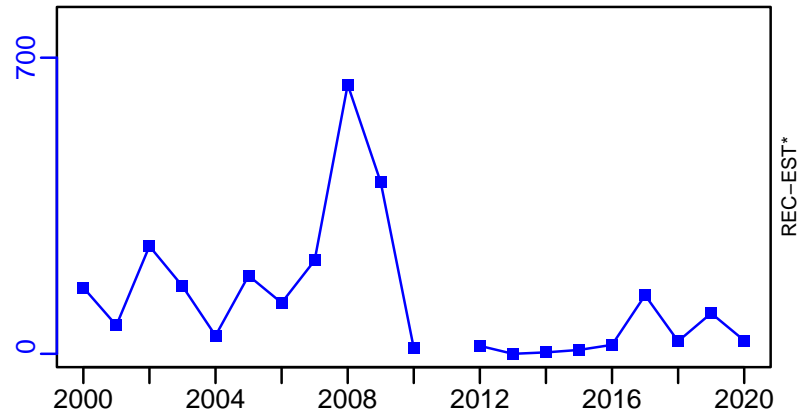
F-1/yr (2000-2016-ICESIMP2018)



ER*



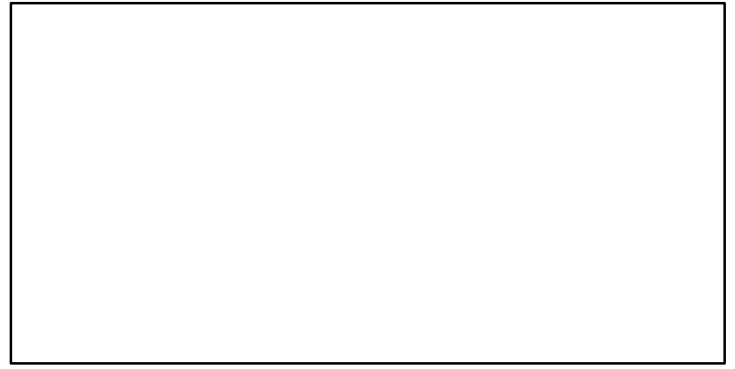
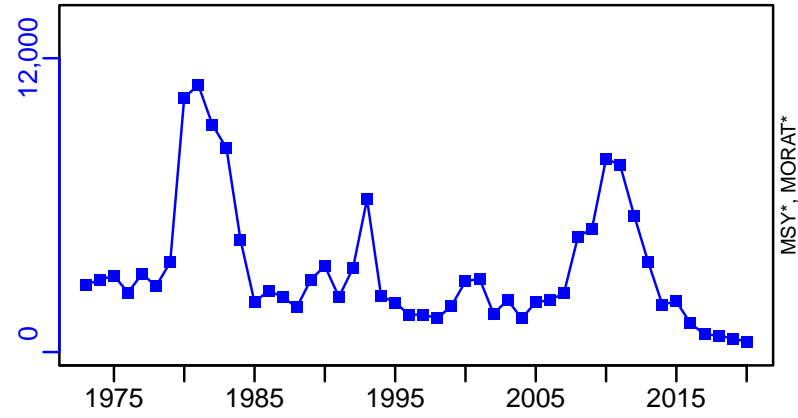
R-E00 (1973-2020-ICESIMP2021-2)



Blue ling ICES 5a-14 [BLINGVa-XIV]

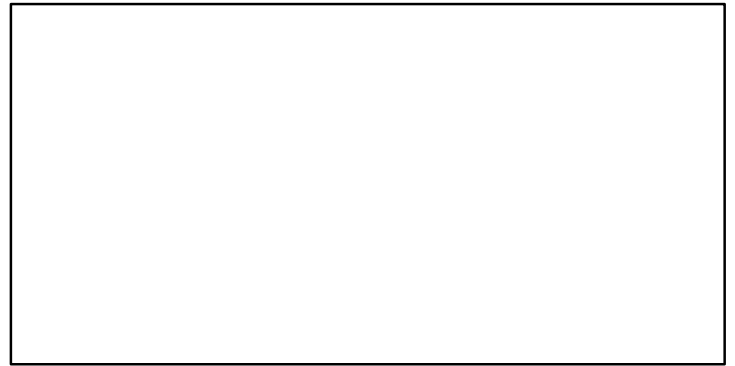
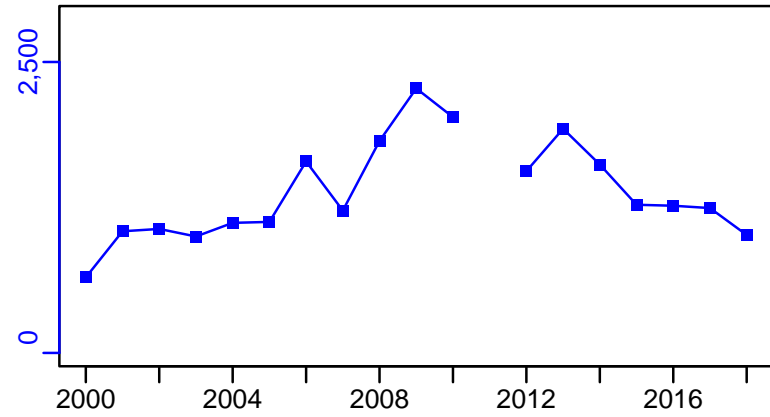
TC-MT, TL*, RecC* (1973-2020-ICESIMP2021-2)

TAC*, Cpair*, Cadv*



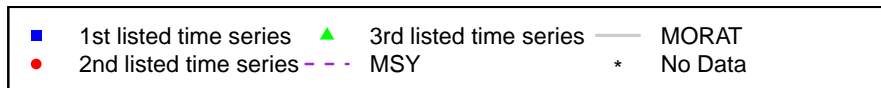
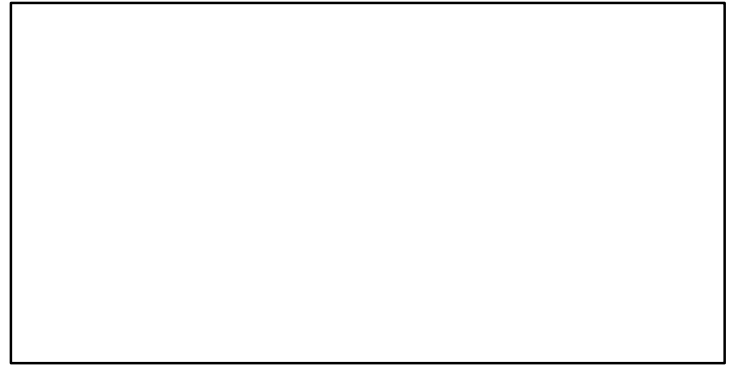
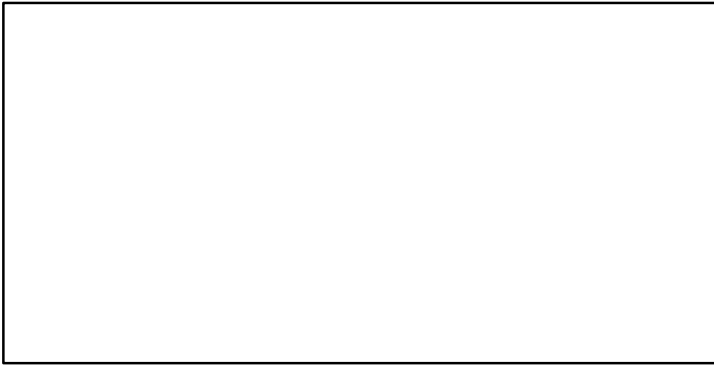
survB-MT (1973-2018-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Blue ling ICES 5b-6-7 [BLINGVb-VI-VII]

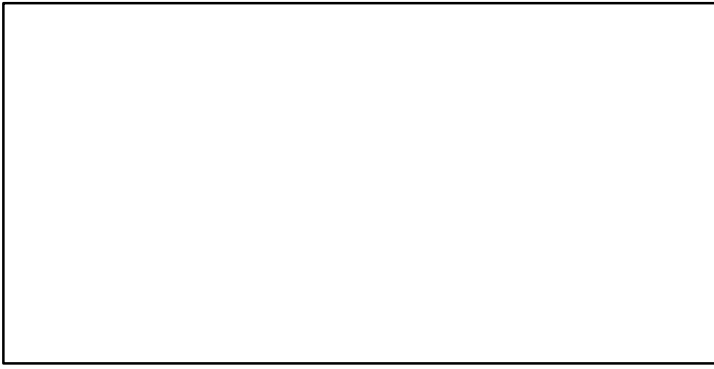
Metadata	
Scientific Name	Molva dypterygia
Current Assess ID	WGDEEP-BLINGVb-VI-VII-1966-2020-ICESIMP2021-2
Area	ICES 5b-6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2018, 2020, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.12
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2020	0.12
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	54,000
Flim	Flim-1/yr	2020	0.17
ERlim	-	-	-

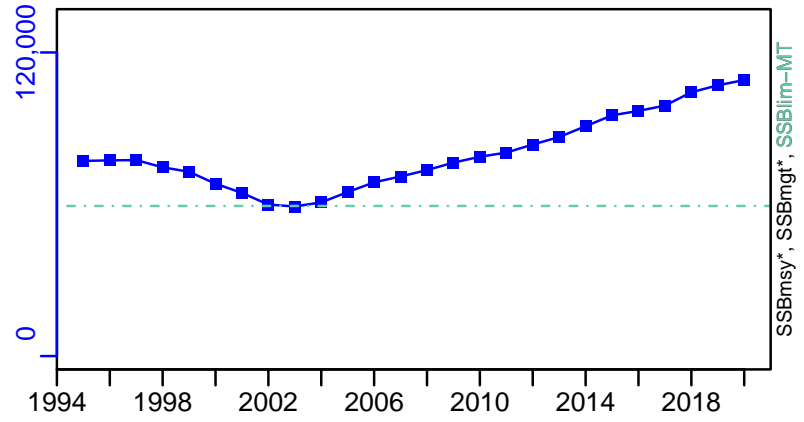
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2020	99,300	-	-
TN	-	-	-	-	-
R	R-E00	2020	3,380,000	-	9
F	F-1/yr	2020	0.036	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	2670		
TL	TL-MT	2020	3220		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.301		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	0.301		
ER/ERmgt	-	-	-		

Blue ling ICES 5b-6-7 [BLINGVb-VI-VII]

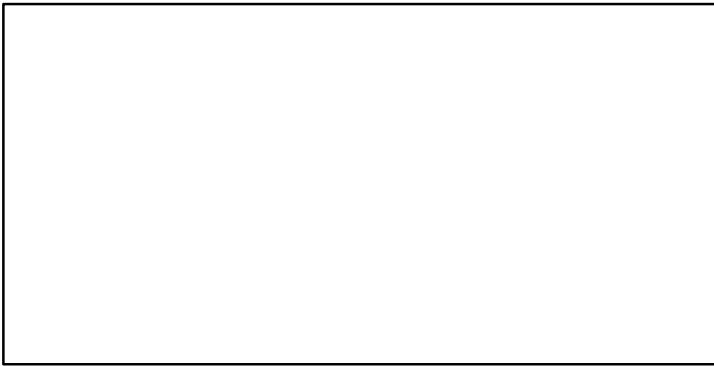
TB*



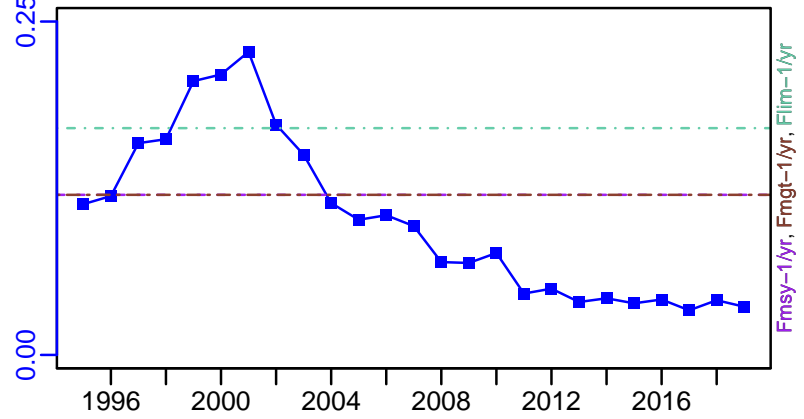
SSB-MT (1966-2020-ICESIMP2021-2)



TN *



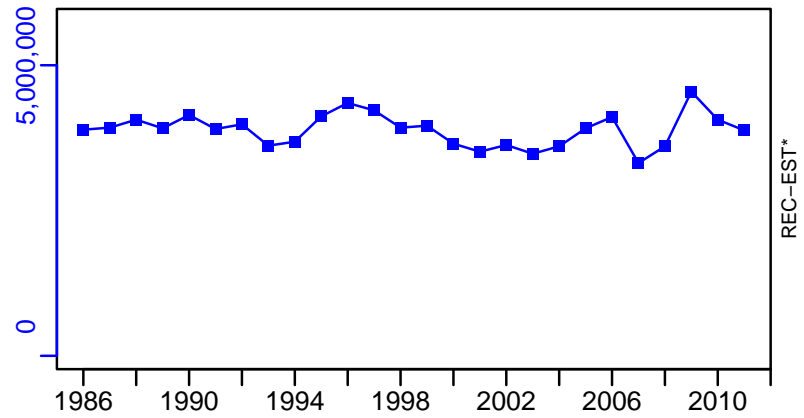
F-1/yr (1966-2020-ICESIMP2021-2)



ER*



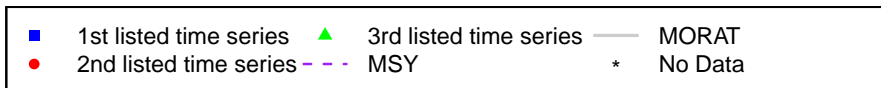
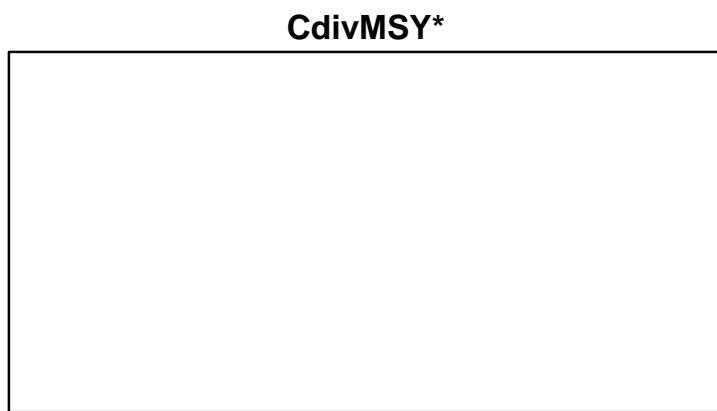
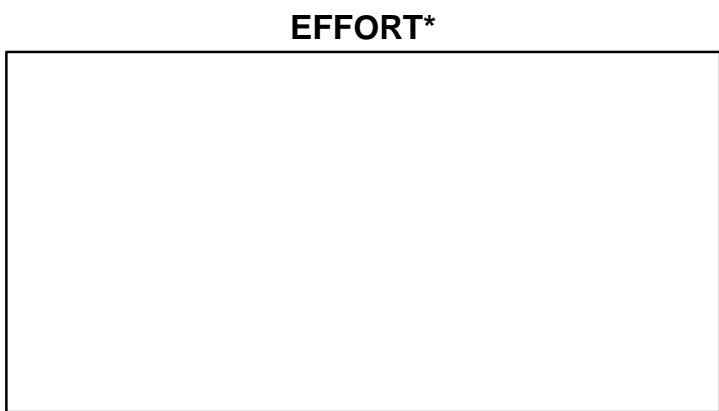
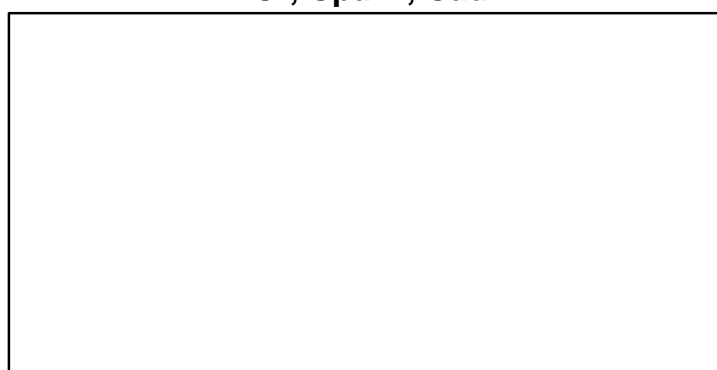
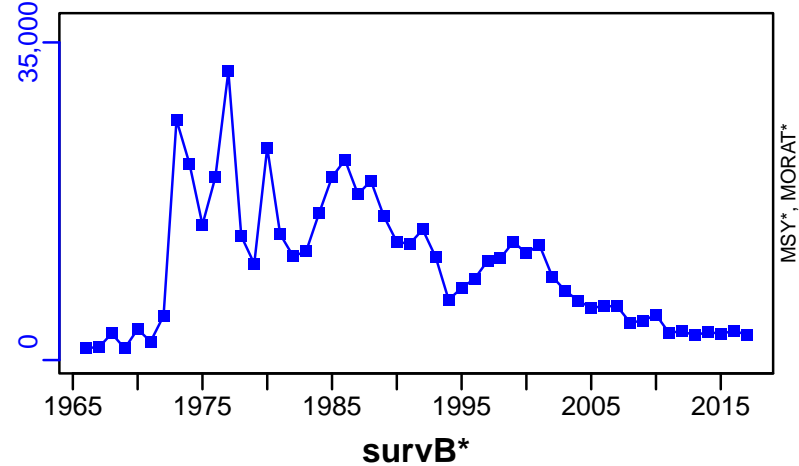
R-E00 (1966-2020-ICESIMP2021-2)



Blue ling ICES 5b-6-7 [BLINGVb-VI-VII]

TC-MT, TL*, RecC* (1966-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

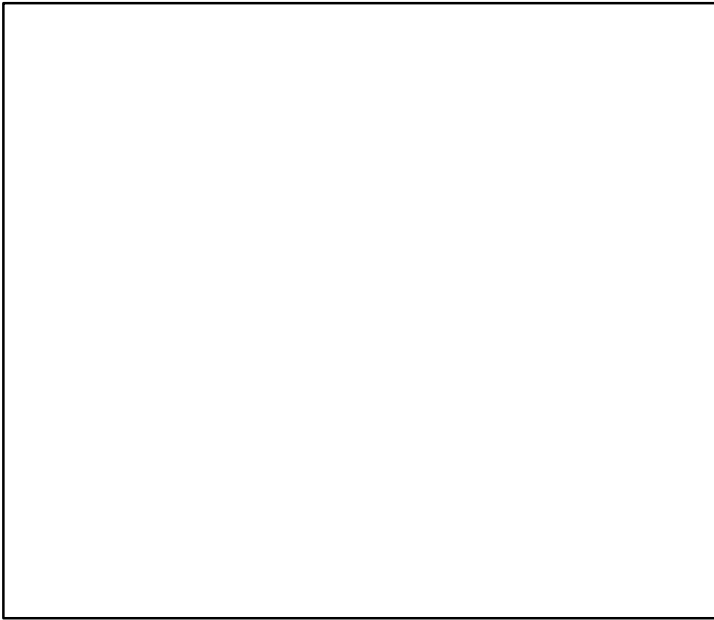
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	STECF-BWHITMEDGSA1-2002-2011-OSIO
Area	Northern Alboran Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.4
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

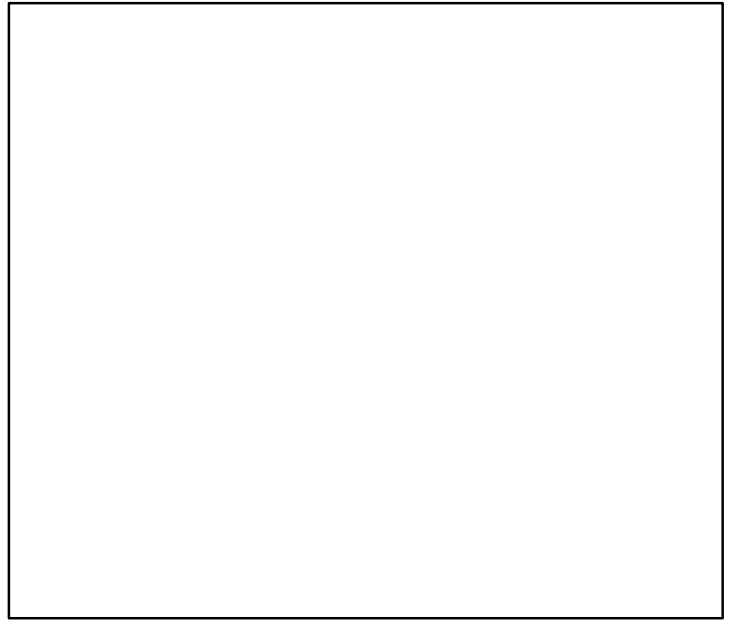
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	428	-	2+
TN	-	-	-	-	-
R	R-E00	2011	30,300,000	-	-
F	F-1/yr	2011	1.4	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	644		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	3.5		
ER/ERmgt	-	-	-		

Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

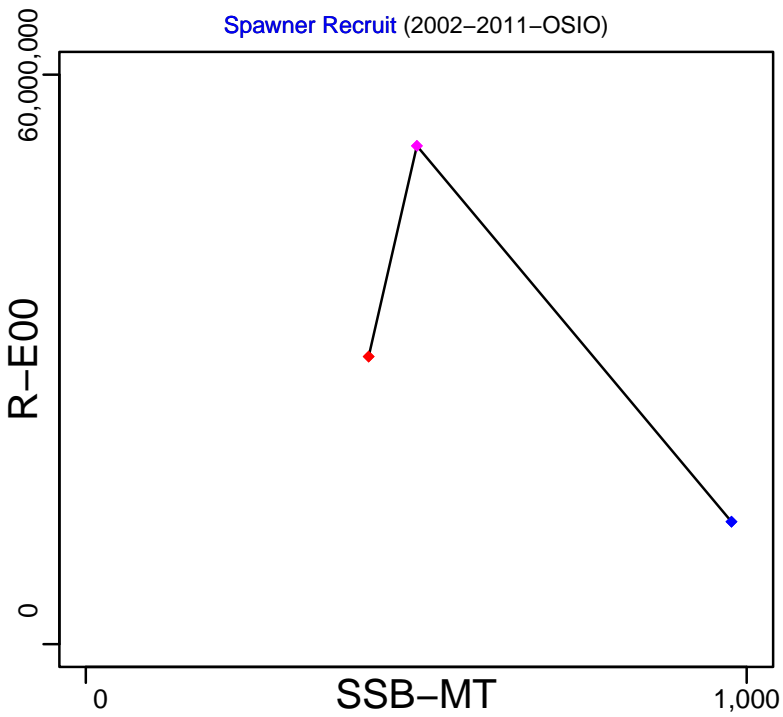
Kobe MSY*



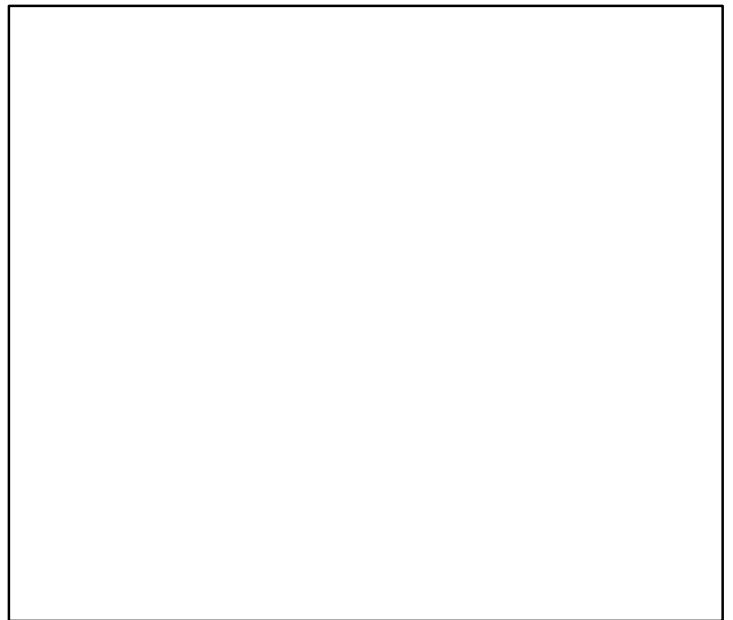
Kobe MGT*



Spawner Recruit (2002–2011–OSIO)



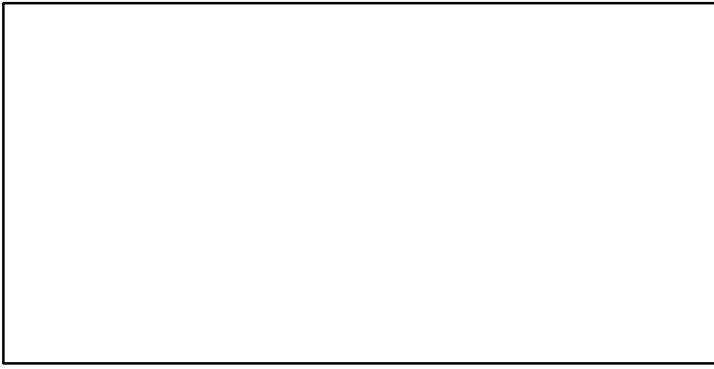
Production*



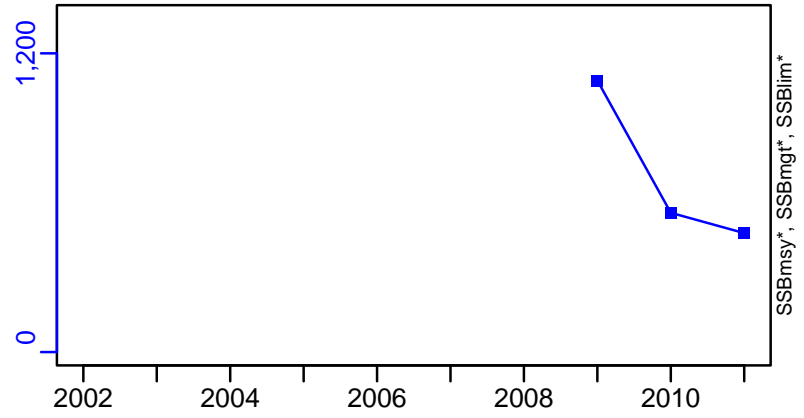
◆ Start Year ◆ End Year * No Data

Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

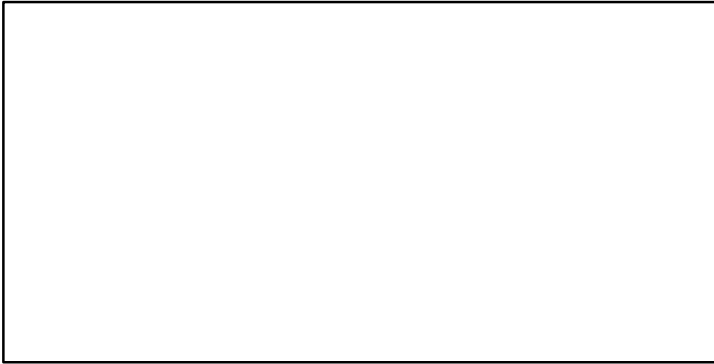
TB*



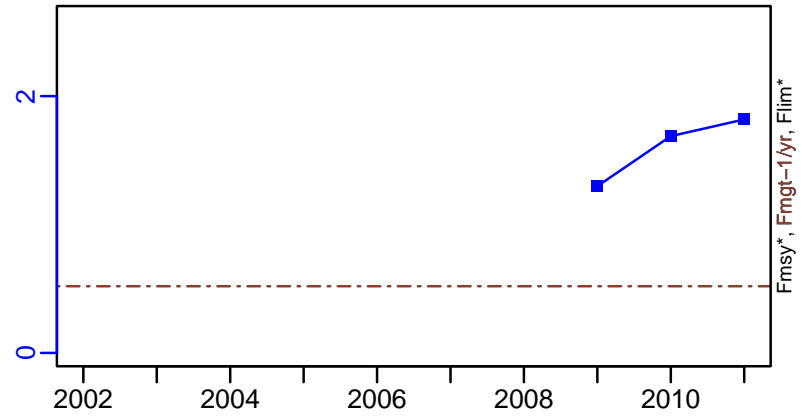
SSB-MT (2002–2011–OSIO)



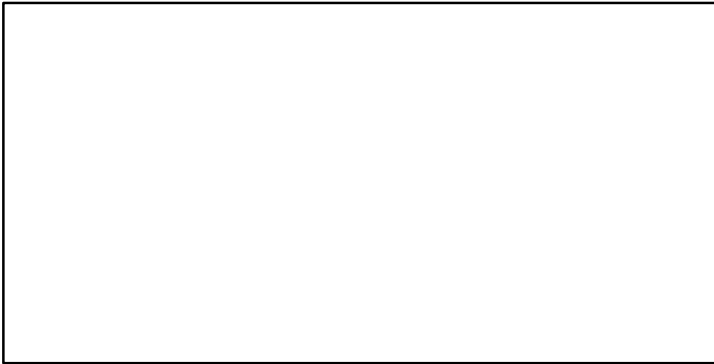
TN *



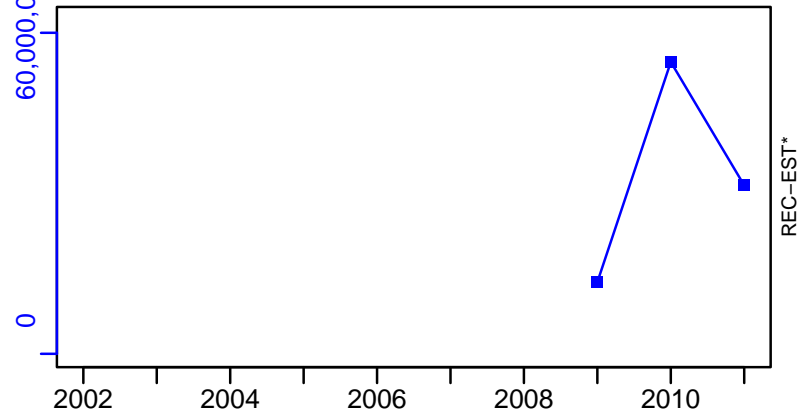
F-1/yr (2002–2011–OSIO)



ER*



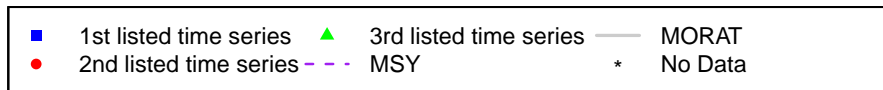
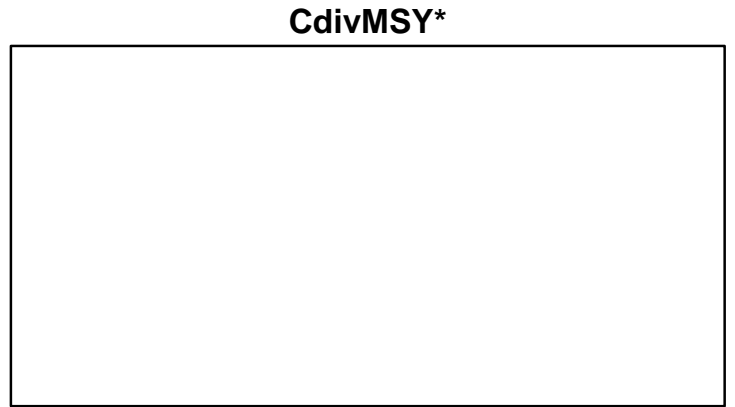
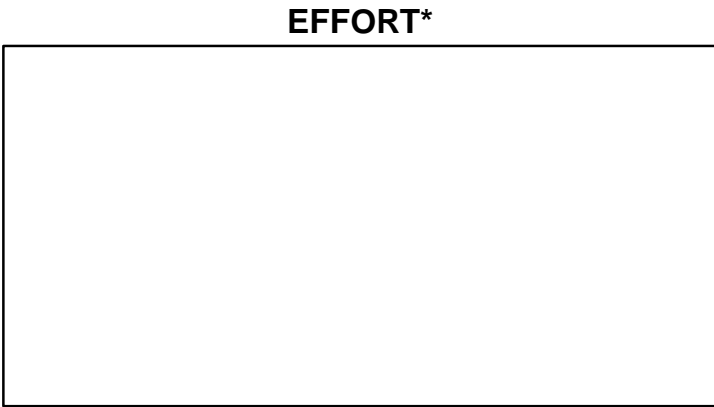
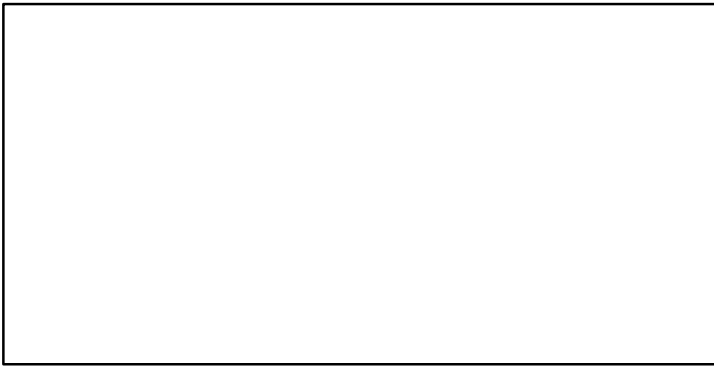
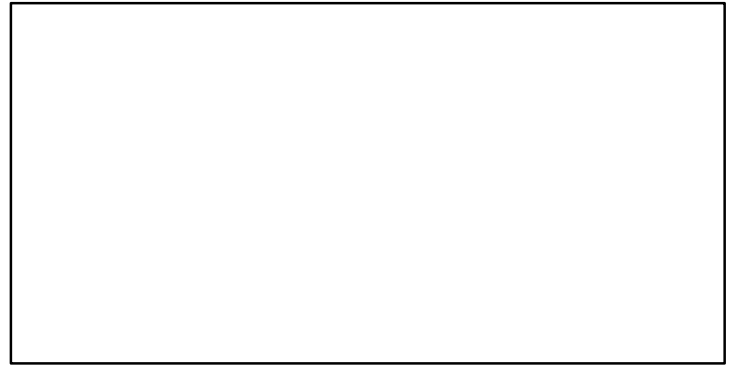
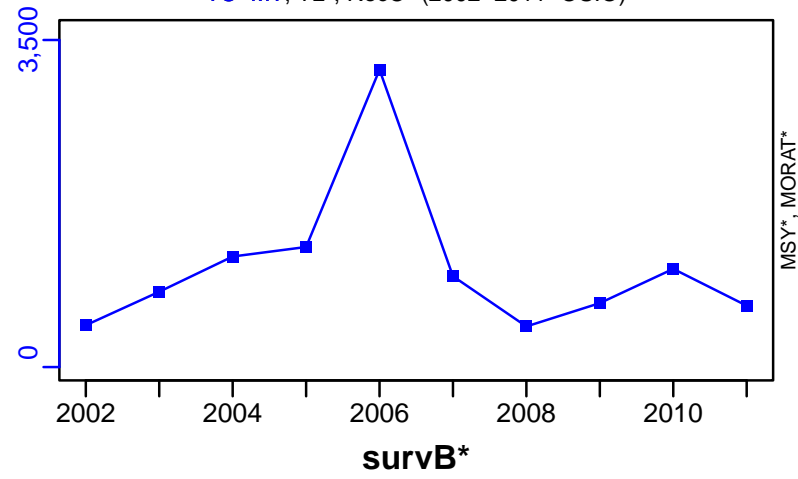
R-E00 (2002–2011–OSIO)



Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

TC-MT, TL*, RecC* (2002-2011-OSIO)

TAC*, Cpair*, Cadv*

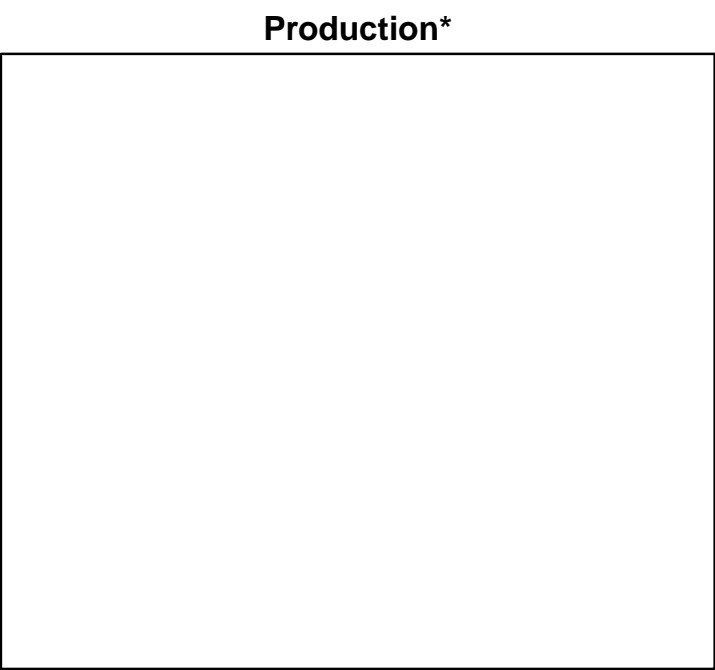
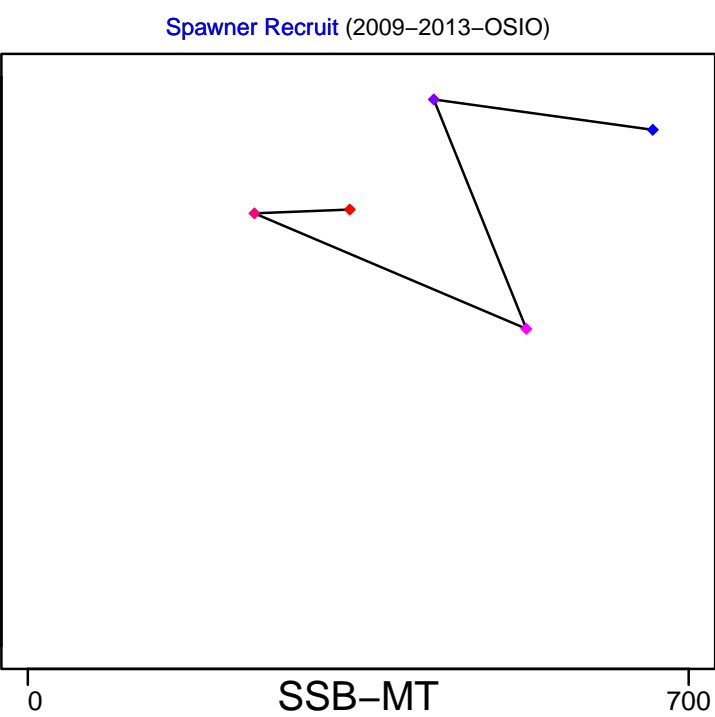
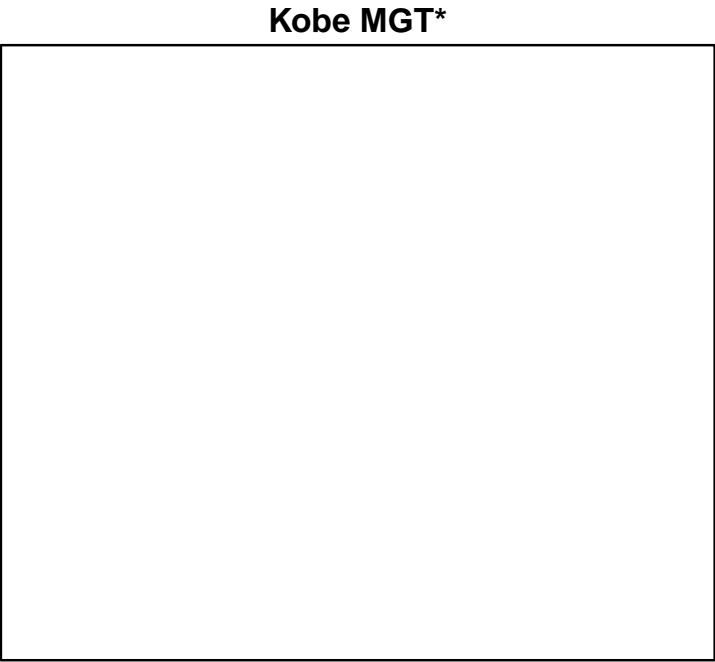
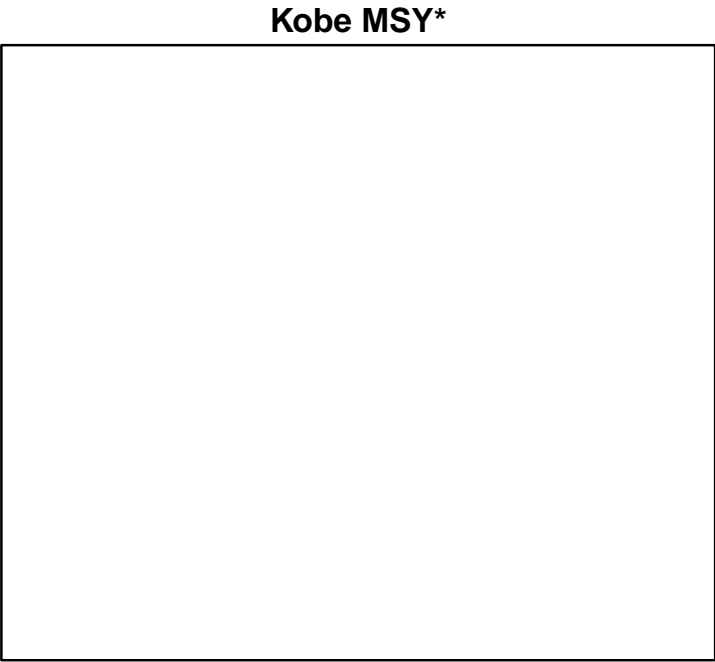


Blue whiting Northern Spain [BWHITMEDGSA6]

Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	STECF-BWHITMEDGSA6-2009-2013-OSIO
Area	Northern Spain
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2013	0.159
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	341	-	2+
TN	-	-	-	-	-
R	R-E00	2013	1.15×10^8	-	-
F	F-1/yr	2013	1.26	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	1020		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	7.903		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Blue whiting Northern Spain [BWHITMEDGSA6]

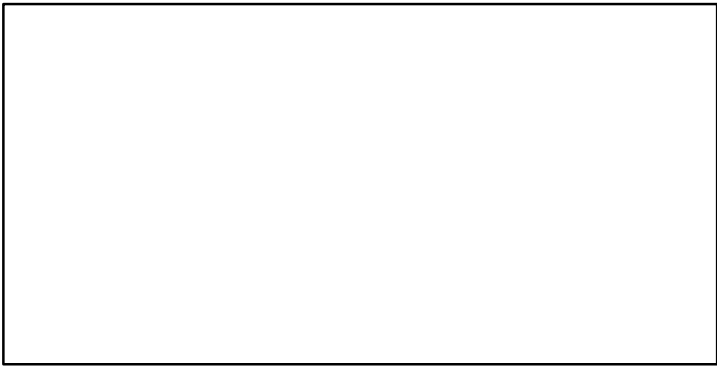
TB*



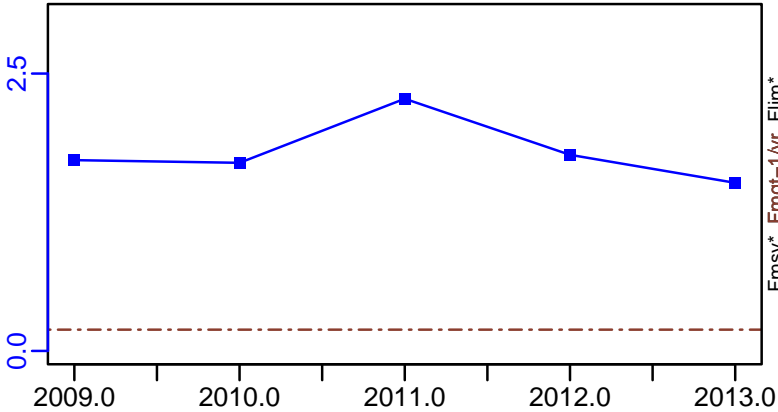
SSB-MT (2009–2013–OSIO)



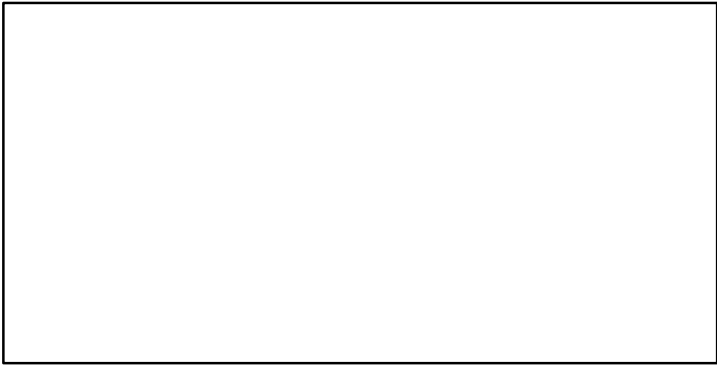
TN *



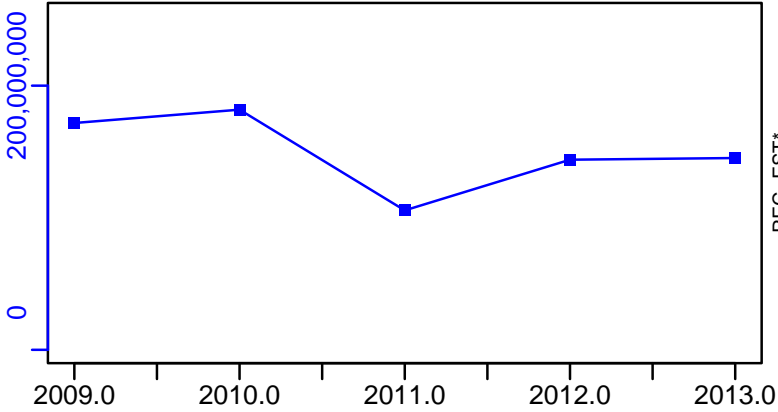
F-1/yr (2009–2013–OSIO)



ER*

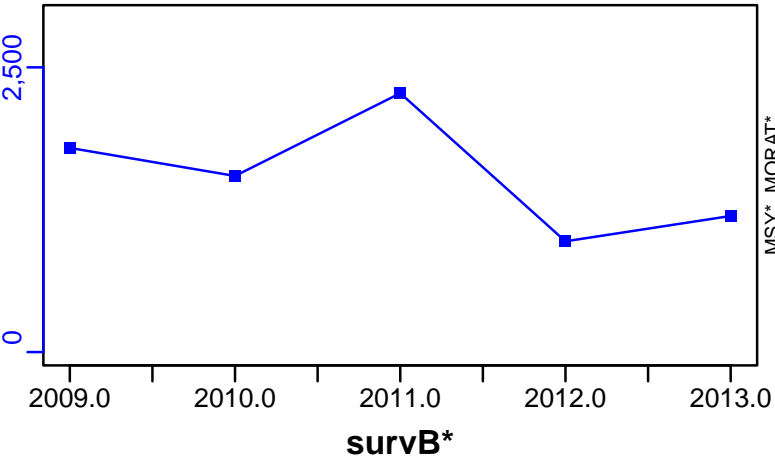


R-E00 (2009–2013–OSIO)



Blue whiting Northern Spain [BWHITMEDGSA6]

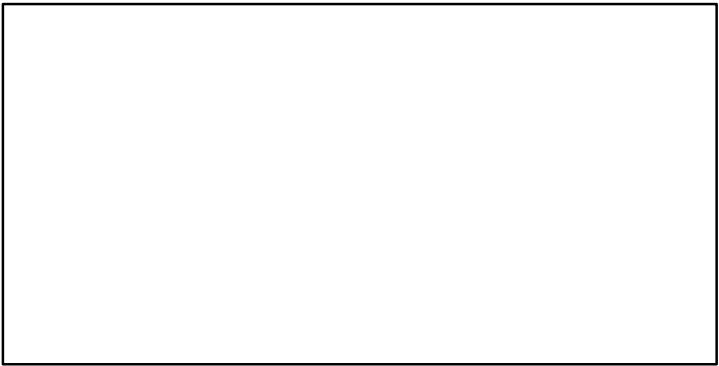
TC-MT, TL*, RecC* (2009–2013–OSIO)



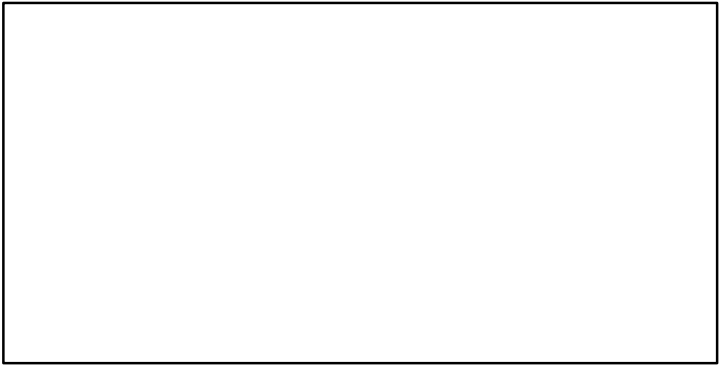
TAC*, Cpair*, Cadv*



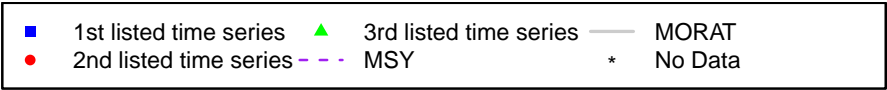
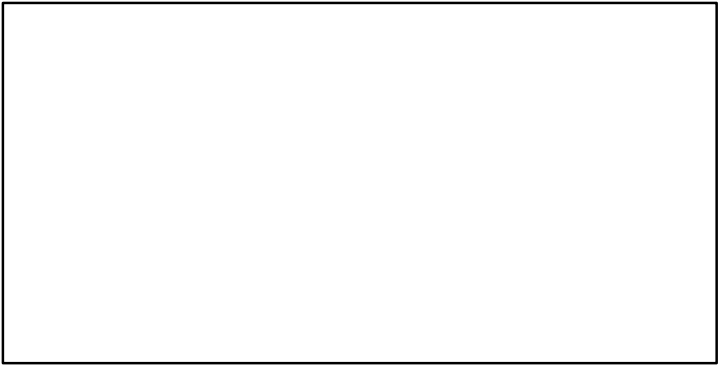
CPUE*



EFFORT*



CdivMSY*



Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

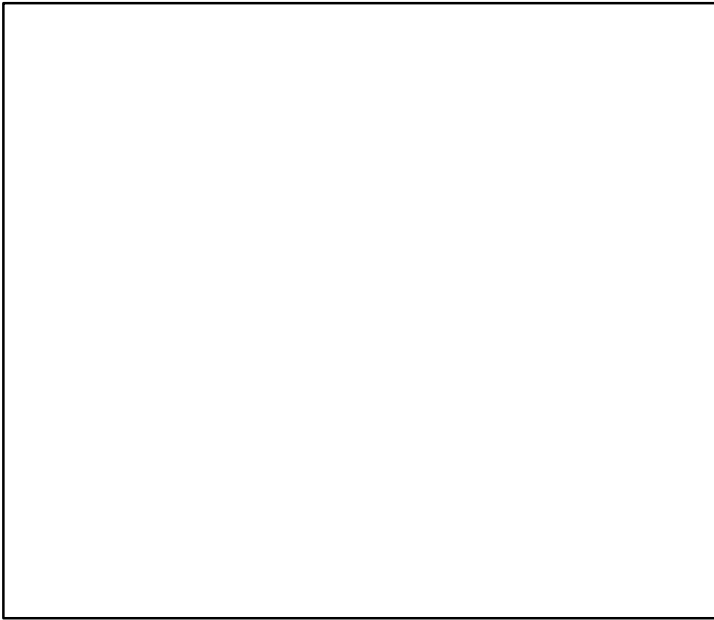
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	STECF-BWHITMEDGSA9-2009-2013-OSIO
Area	Ligurian and North Tyrrhenian Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2013	0.328
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

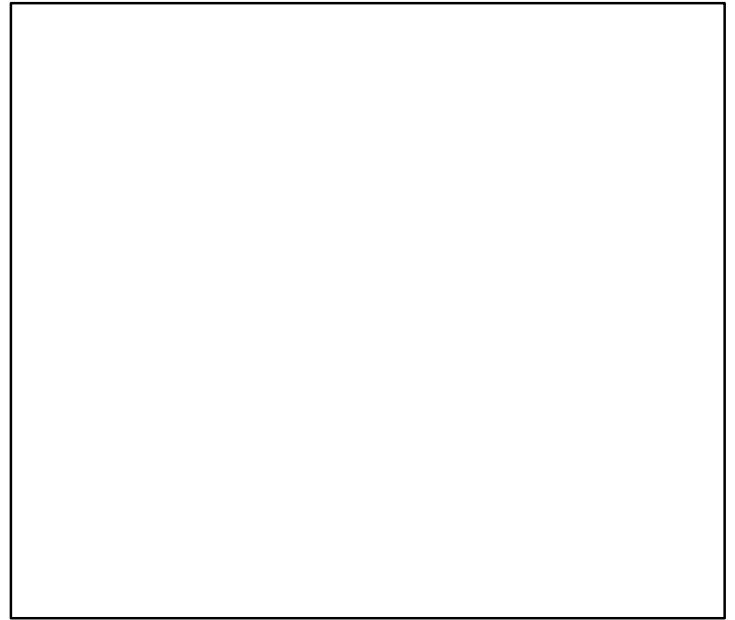
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	281	-	2+
TN	-	-	-	-	-
R	R-E00	2013	6,880,000	-	-
F	F-1/yr	2013	0.378	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	102		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	1.151		
ER/ERmgt	-	-	-		

Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

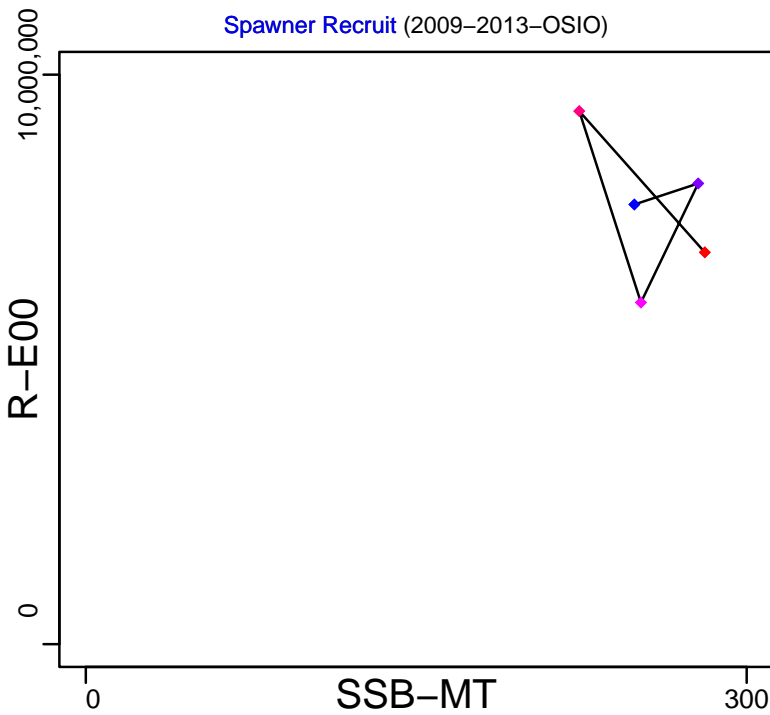
Kobe MSY*



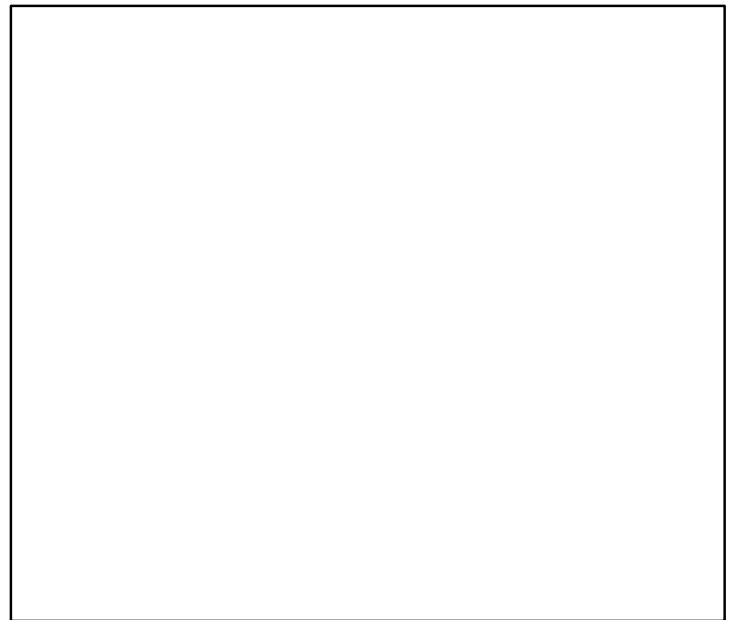
Kobe MGT*



Spawner Recruit (2009–2013–OSIO)



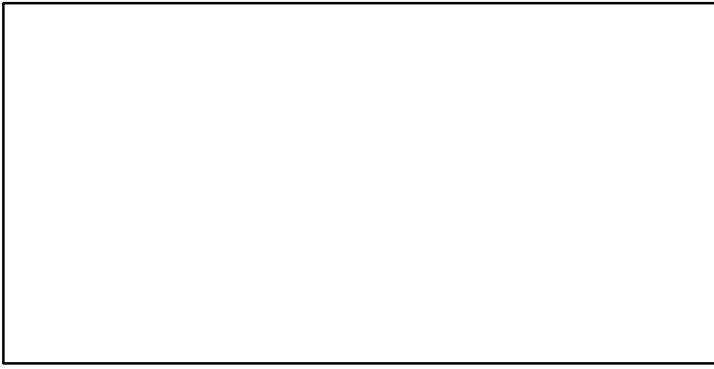
Production*



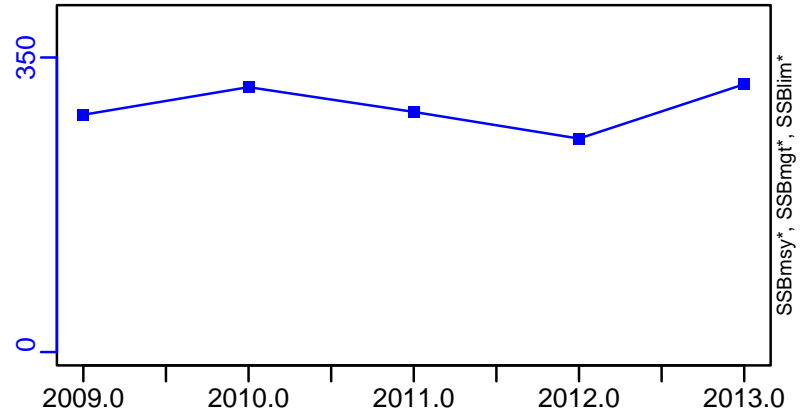
◆ Start Year ◆ End Year * No Data

Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

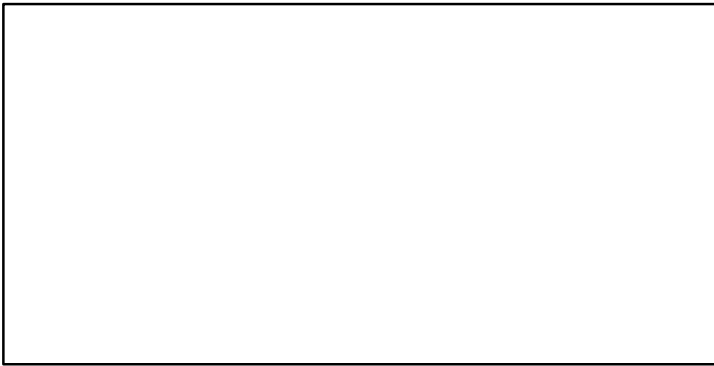
TB*



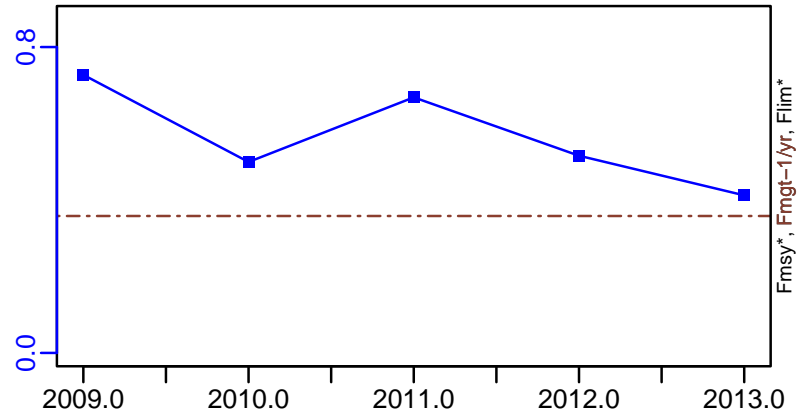
SSB-MT (2009–2013–OSIO)



TN *



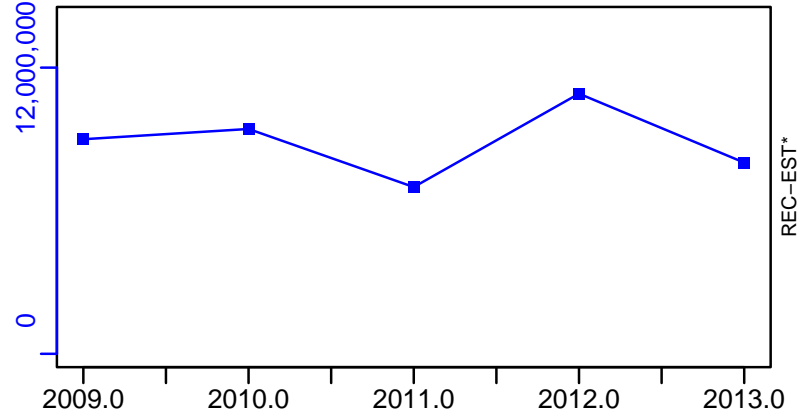
F-1/yr (2009–2013–OSIO)



ER*



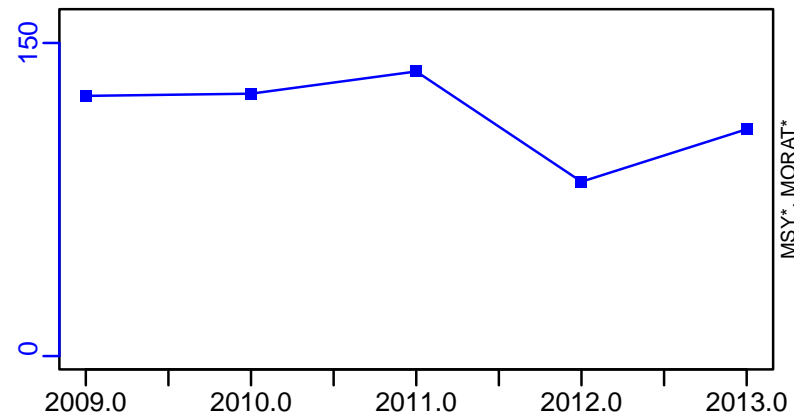
R-E00 (2009–2013–OSIO)



Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

TC-MT, TL*, RecC* (2009–2013–OSIO)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

Blue whiting Northeast Atlantic [BWHITNEA]

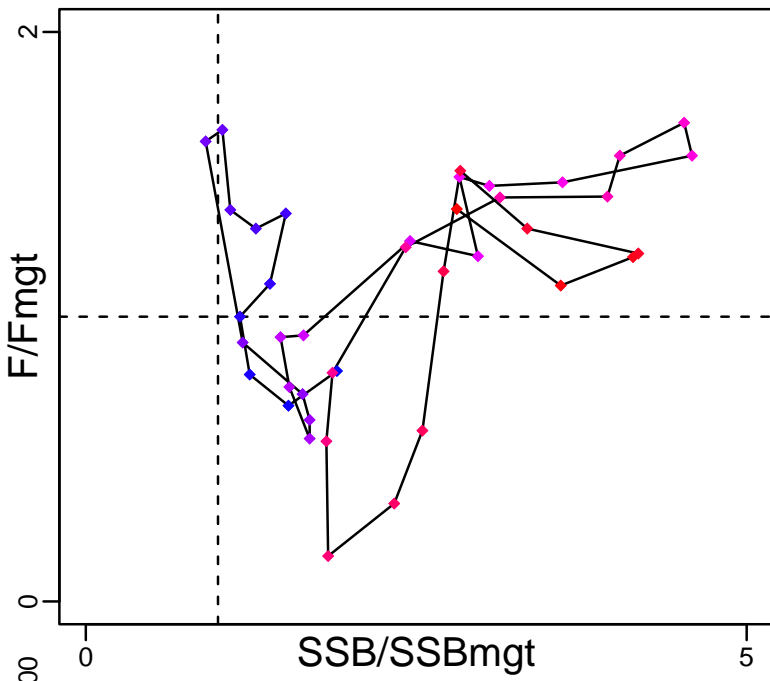
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	WGWISE-BWHITNEA-1981-2022-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2012, 2013, 2014, 2015, 2017, 2018, 2020, 2021, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2022	0.32
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	1,500,000
Fmgt	Fmgt-1/yr	2022	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	1,500,000
Flim	Flim-1/yr	2022	0.88
ERlim	-	-	-

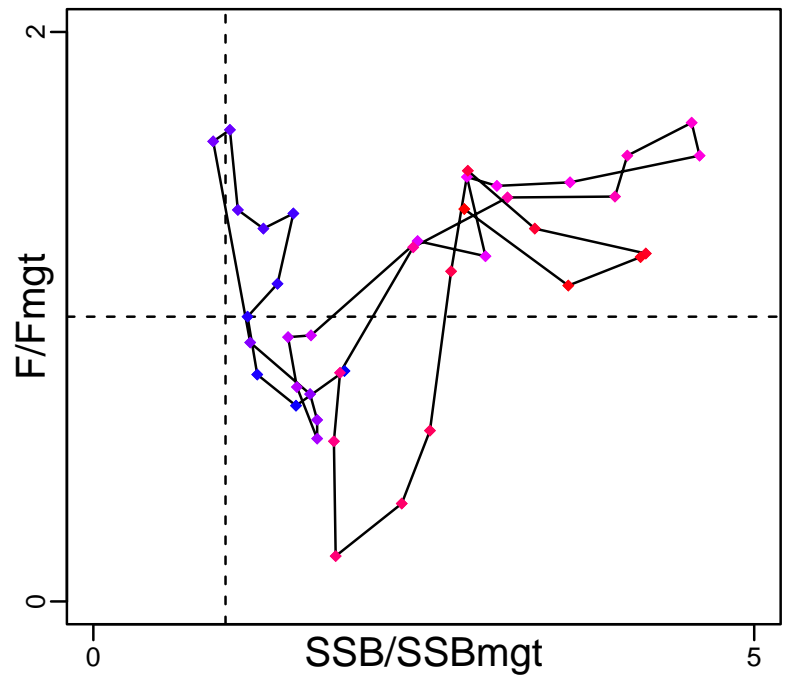
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	5,700,362	-	-
SSB	SSB-MT	2022	3,400,000	-	-
TN	-	-	-	-	-
R	R-E00	2022	2.98×10^{10}	-	1
F	F-1/yr	2022	0.508	-	-
ER	ER-calc-ratio	2020	0.21	-	-
TC	TC-MT	2022	1,240,000		
TL	TL-MT	2022	1,240,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	1.587		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.167		
F/Fmgt	F-1/yr/Fmgt-1/yr	2022	1.587		
ER/ERmgt	-	-	-		

Blue whiting Northeast Atlantic [BWHITNEA]

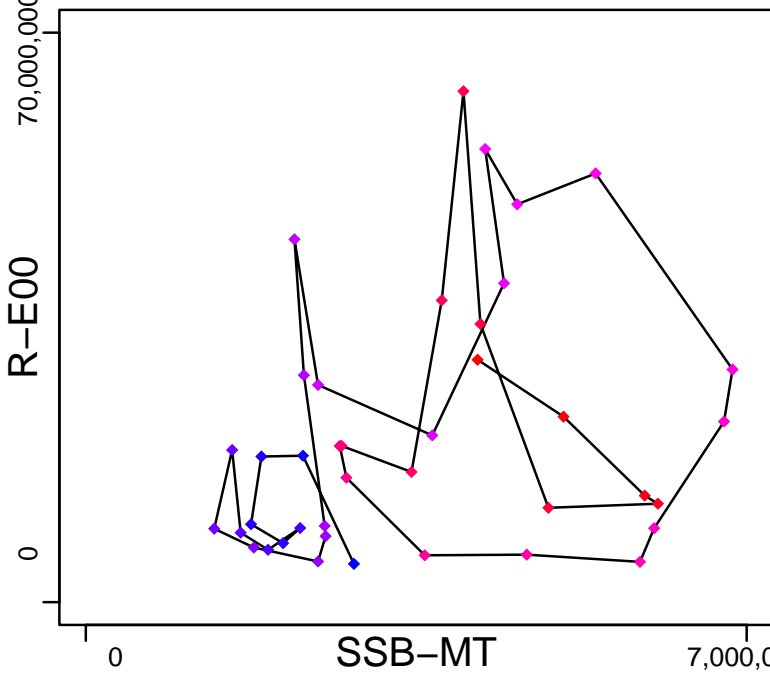
Kobe MSYpref (1981–2021–ICESIMP2021–2)



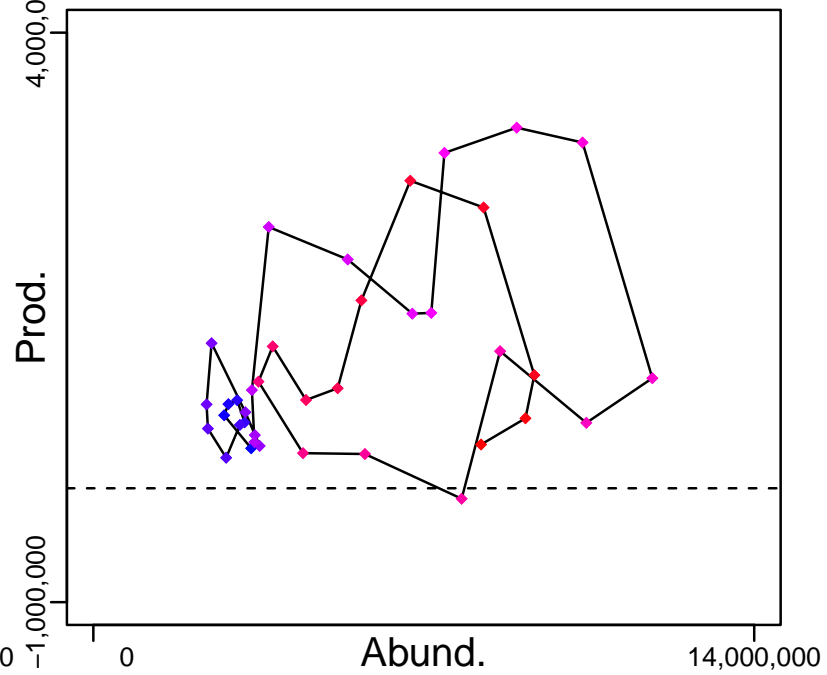
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2022–ICESIMP2021–2)

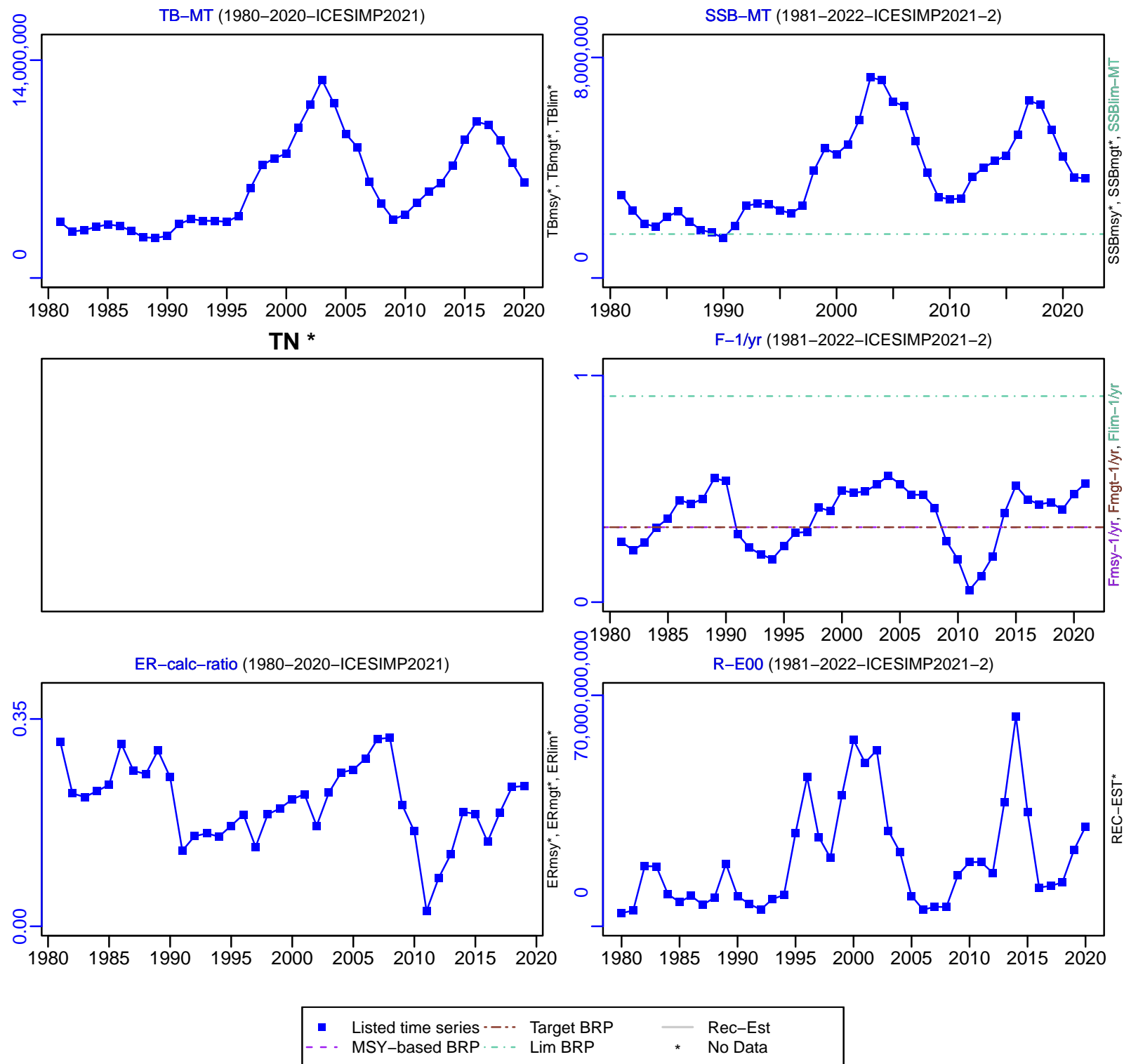


Production (1980–2020–ICESIMP2021)



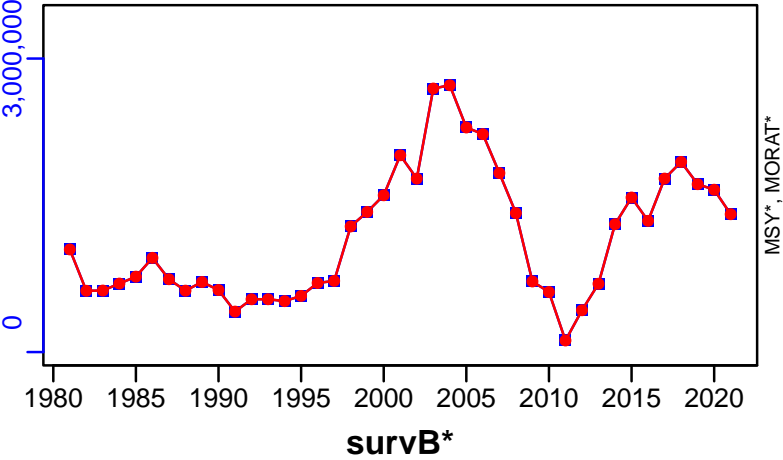
◆ Start Year ◆ End Year * No Data

Blue whiting Northeast Atlantic [BWHITNEA]



Blue whiting Northeast Atlantic [BWHITNEA]

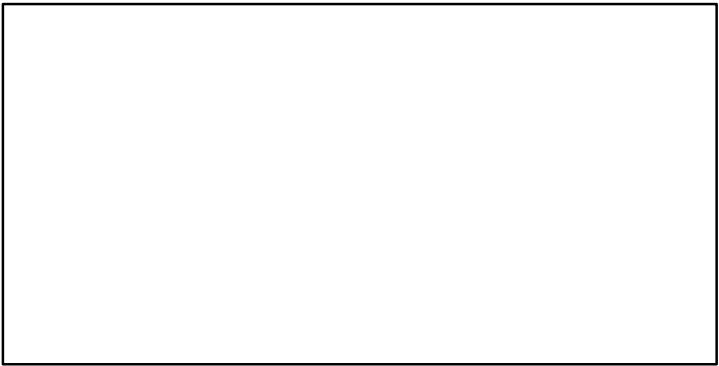
TC-MT, TL-MT, RecC* (1981-2022-ICESIMP2021-2)



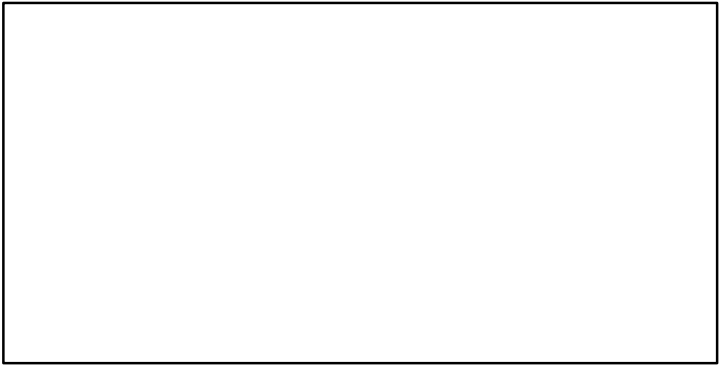
TAC*, Cpair*, Cadv*



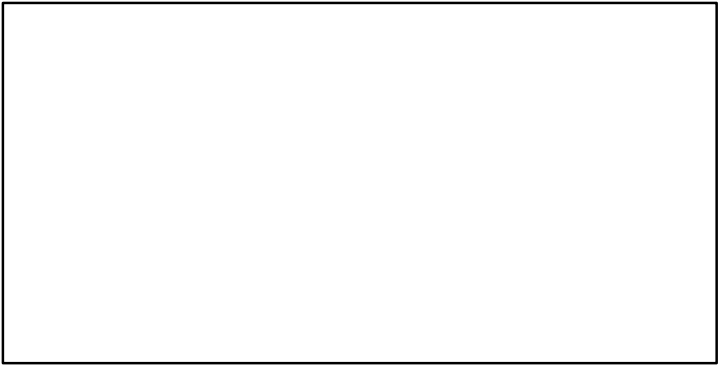
CPUE*



EFFORT*



CdivMSY*



Shallow water cape hake South Africa [CHAKESA]

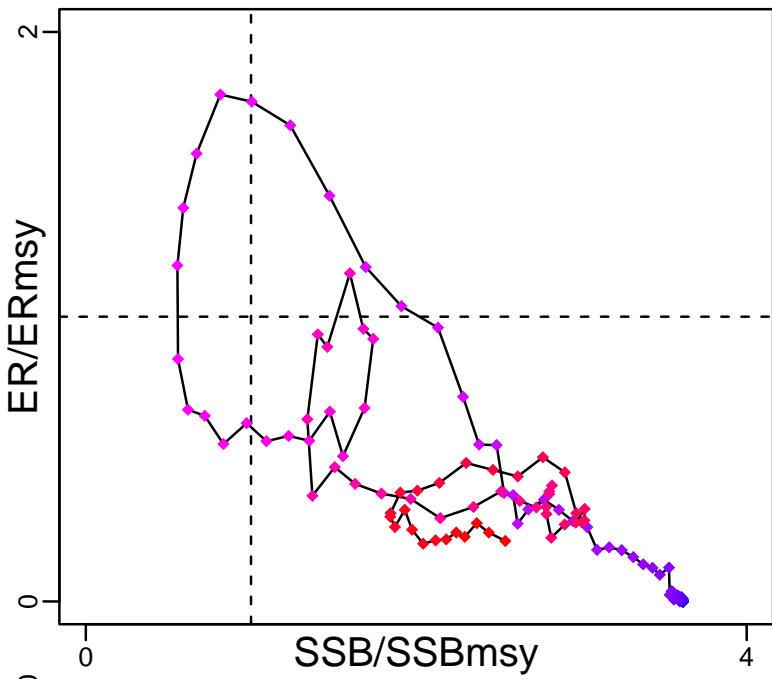
Metadata	
Scientific Name	Merluccius capensis
Current Assess ID	MARAM-CHAKESA-1900-2021-ROSSGILLESPIE
Area	South Africa
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Assessor	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Asmts in RAM	2021, 2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2021	198,715
SSBmsy	SSBmsy-MT	2021	95,675
Fmsy	Fmsy-1/yr	2013	0.32
ERmsy	ERmsy-ratio	2021	0.4
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	95,675
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2021	0.4
TB0	TB0-MT	2021	777,623
SSB0	SSB0-MT	2021	345,826
MSY	MSY-MT	2021	79,486
M	M-1/yr	2021	0.555
TBlim	TBlim-MT	2013	43,000
SSBlim	SSBlim-MT	2021	53,041
Flim	-	-	-
ERlim	-	-	-

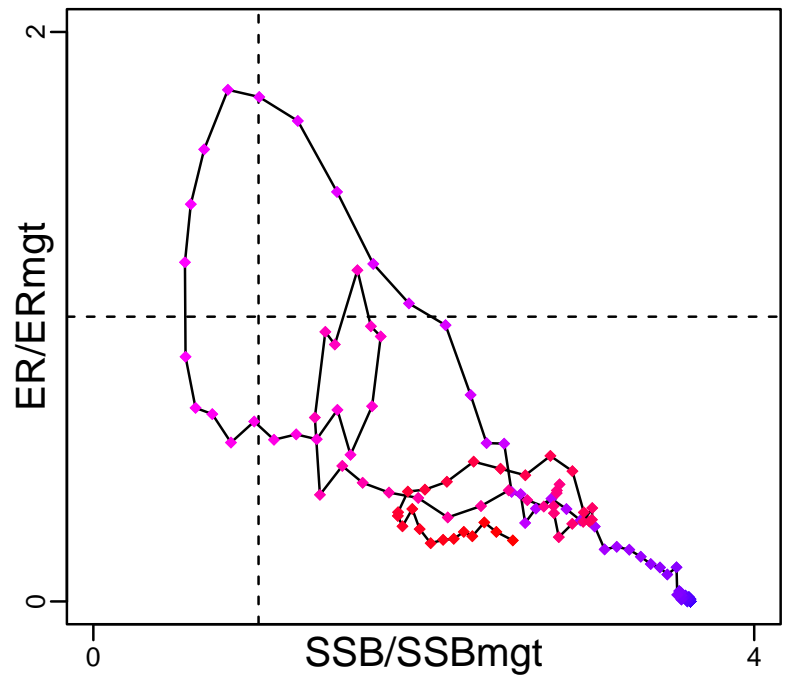
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	660,767	Both	0+
SSB	SSB-MT	2021	242,925	Females	-
TN	-	-	-	-	-
R	R-E00	2021	500,565,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2021	0.086	Both	0+
TC	TC-MT	2021	27,625		
TL	TL-MT	2021	27,625		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2021	3.325		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	2.539		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2021	0.212		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.539		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Shallow water cape hake South Africa [CHAKESA]

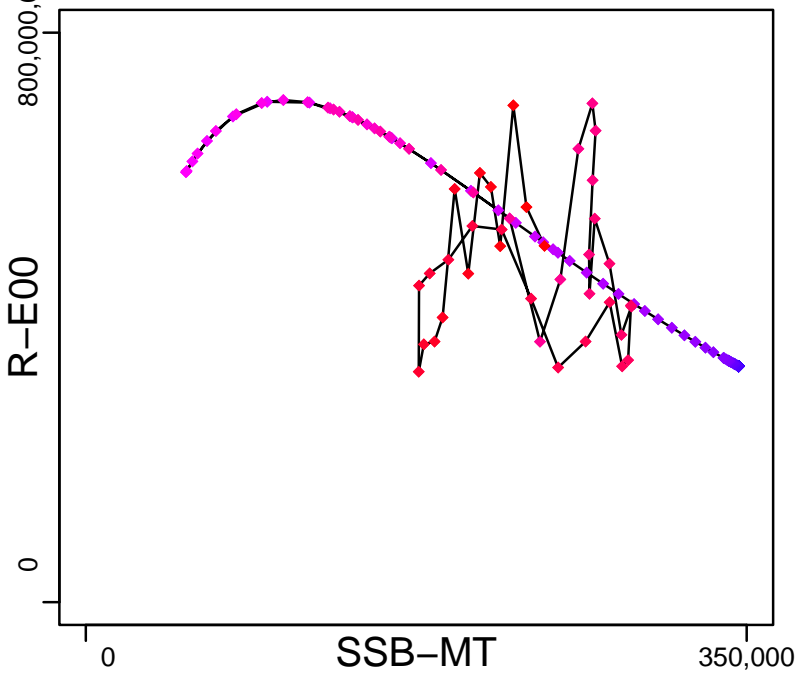
Kobe MSYpref (1900–2021–ROSSGILLESPIE)



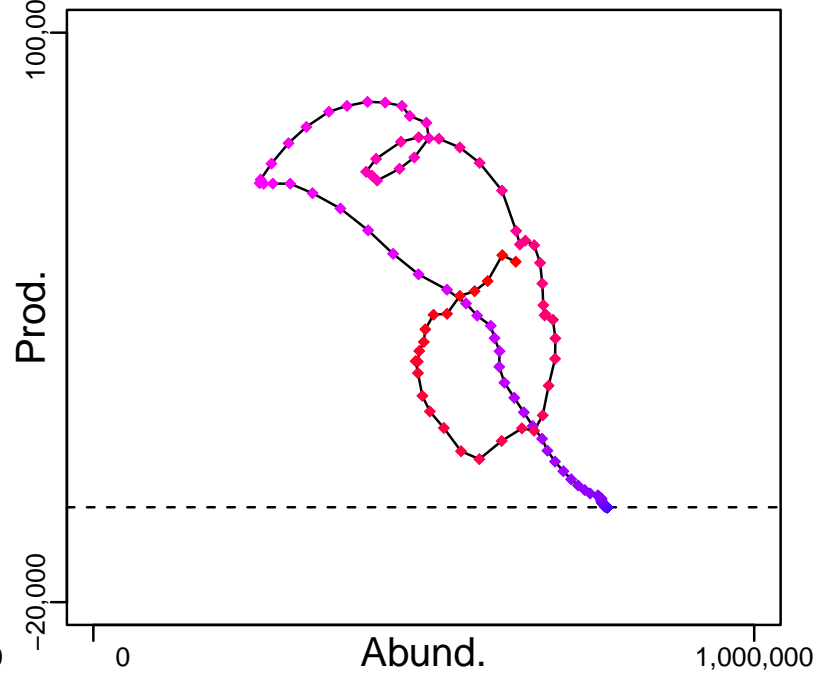
Kobe MGTpref (1900–2021–ROSSGILLESPIE)



Spawner Recruit (1900–2021–ROSSGILLESPIE)



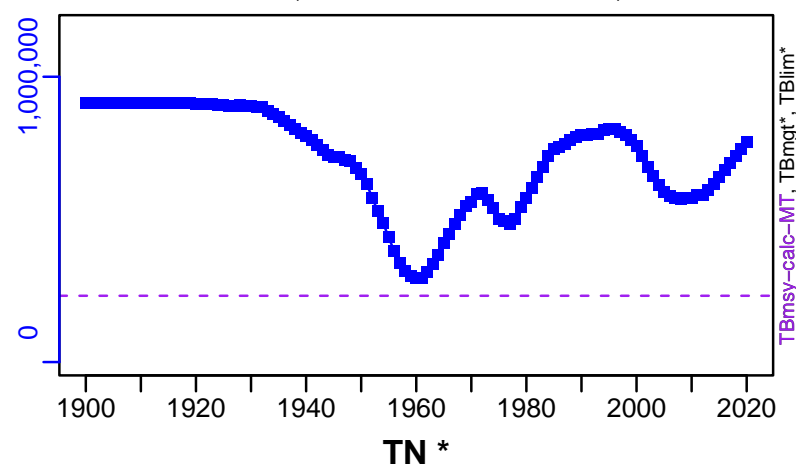
Production (1900–2021–ROSSGILLESPIE)



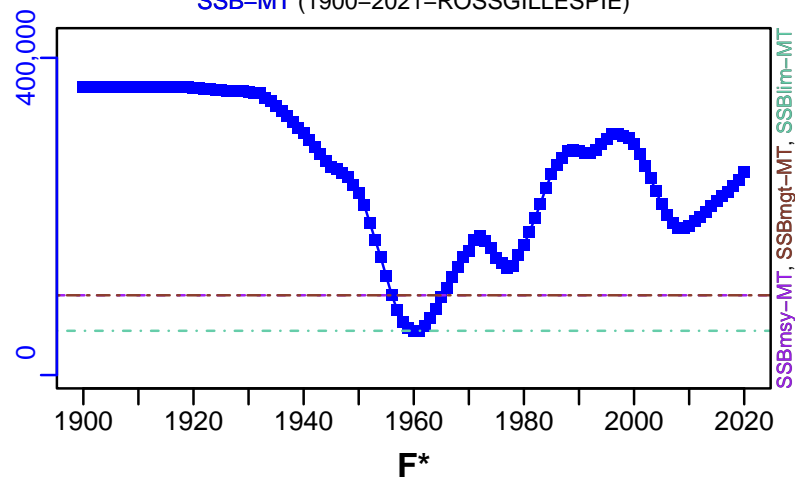
◆ Start Year ◆ End Year * No Data

Shallow water cape hake South Africa [CHAKESA]

TB-MT (1900–2021–ROSSGILLESPIE)



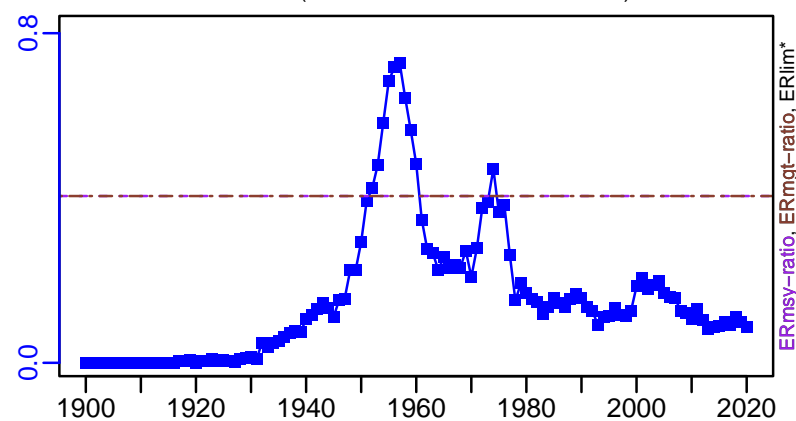
SSB-MT (1900–2021–ROSSGILLESPIE)



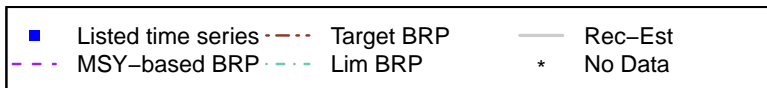
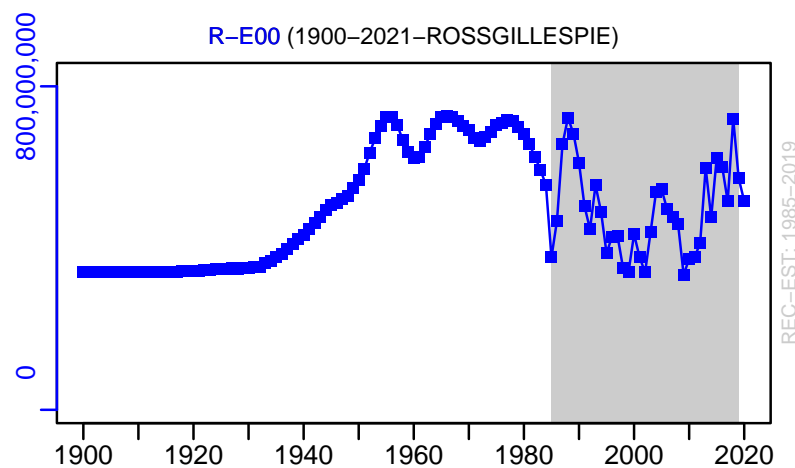
TN *

F*

ER-ratio (1900–2021–ROSSGILLESPIE)

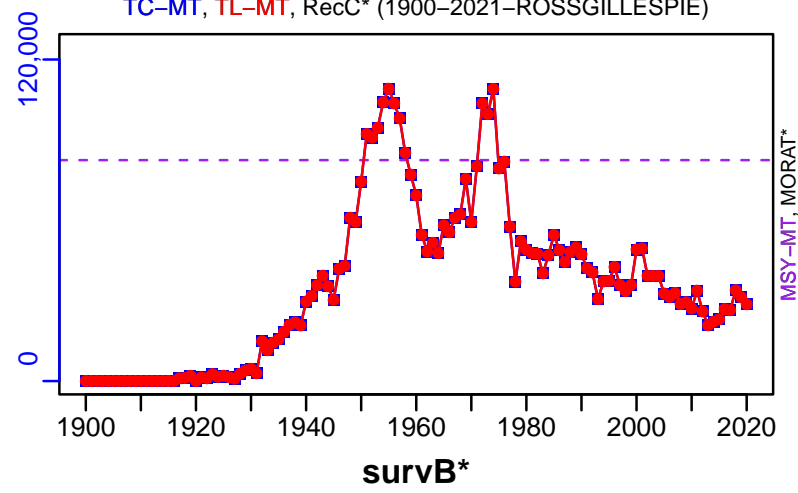


R-E00 (1900–2021–ROSSGILLESPIE)

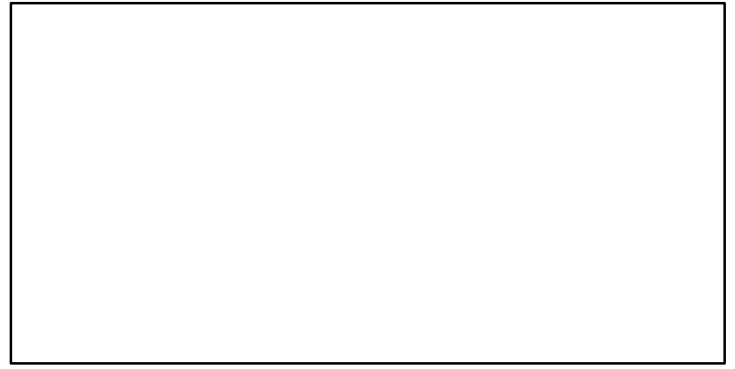


Shallow water cape hake South Africa [CHAKESA]

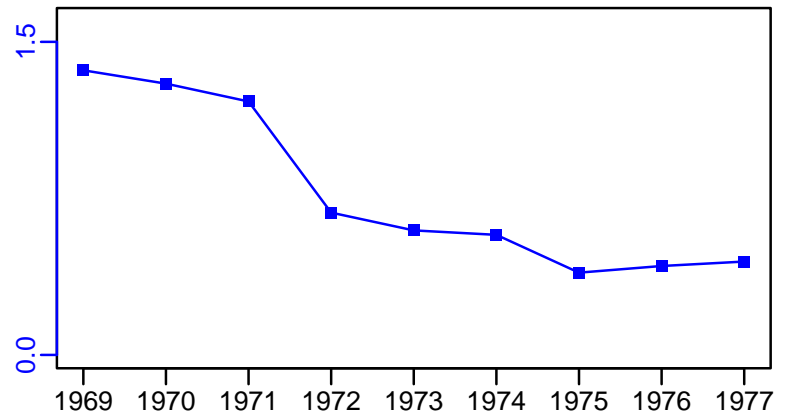
TC-MT, TL-MT, RecC* (1900–2021–ROSSGILLESPIE)



TAC*, Cpair*, Cadv*



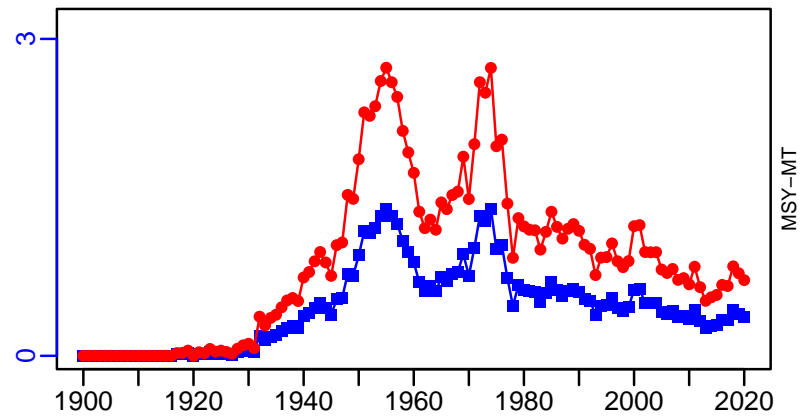
CPUE-index (1900–2021–ROSSGILLESPIE)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1900–2021–ROSSGILLESPIE)



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

Atlantic cod NAFO 1ABCDE [COD1ABCDE]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-COD1ABCDE-1952-2016-ICESIMP2018
Area	NAFO 1ABCDE
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3740		
TL	TL-MT	2015	4860		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

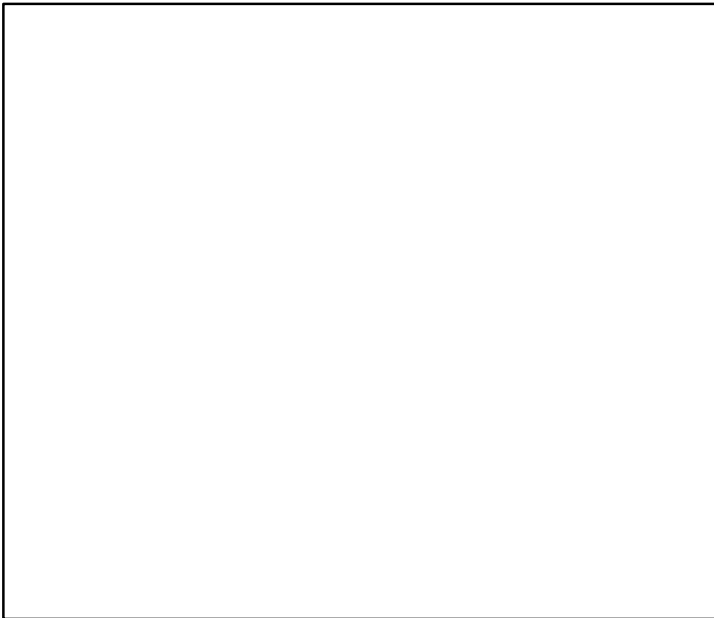
Kobe MSY*



Kobe MGT*



Spawner Recruit*

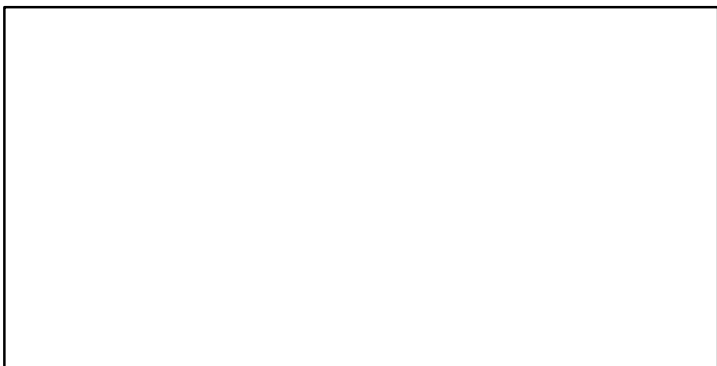


Production*

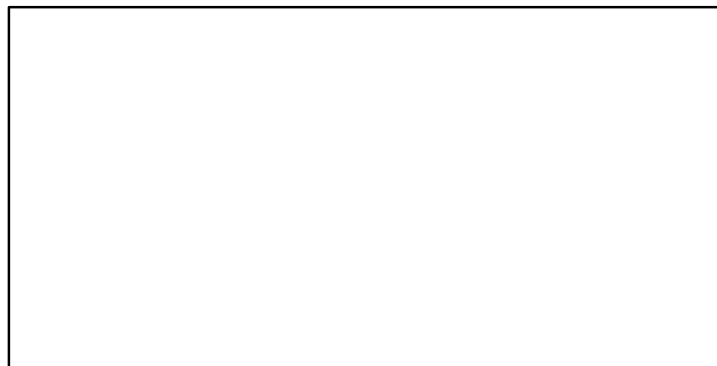


◆ Start Year ◆ End Year * No Data

TB*



SSB*



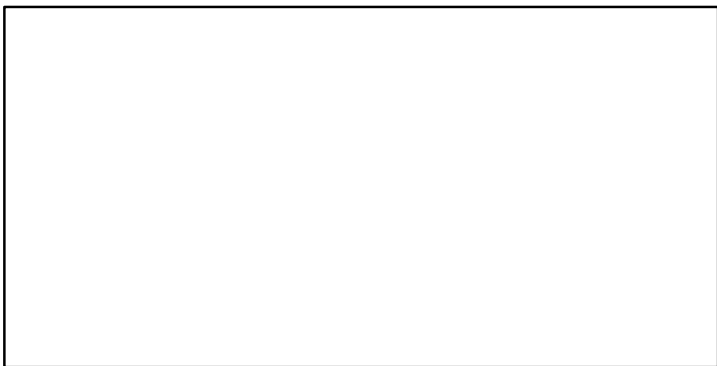
TN *



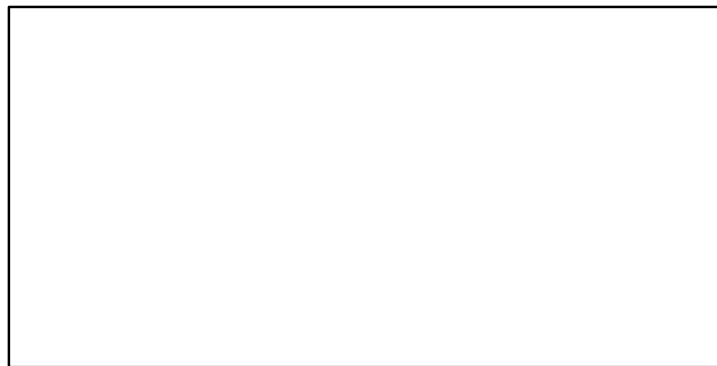
F*



ER*



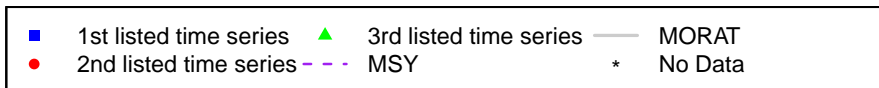
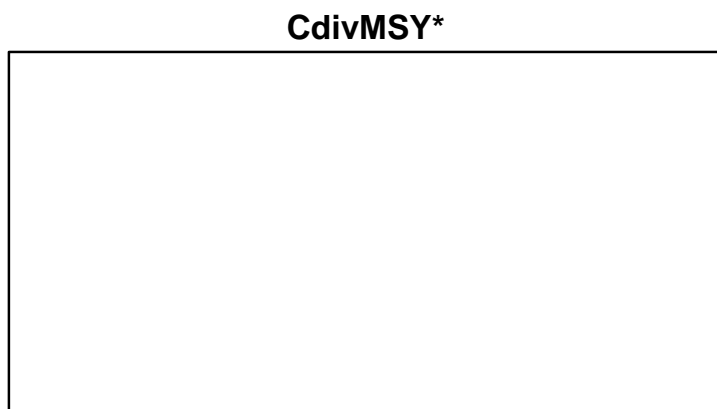
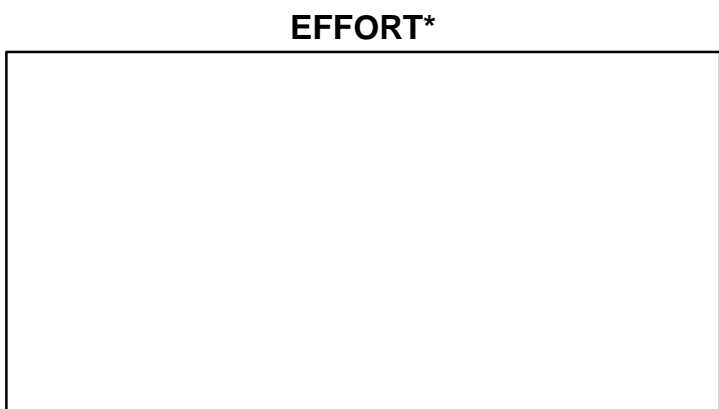
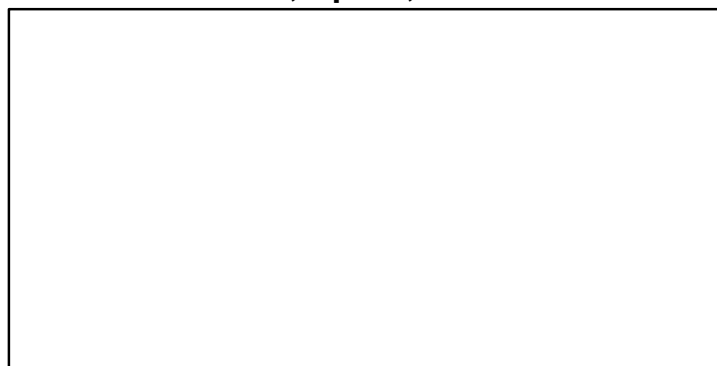
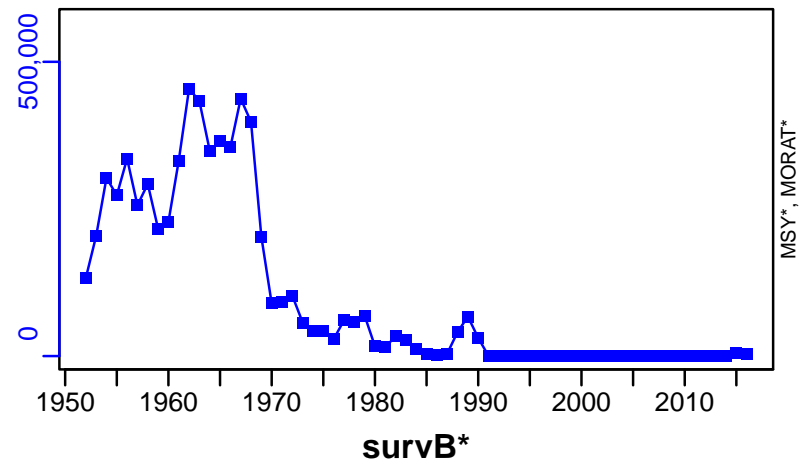
Recruits*



Atlantic cod NAFO 1ABCDE [COD1ABCDE]

TC-MT, TL*, RecC* (1952-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

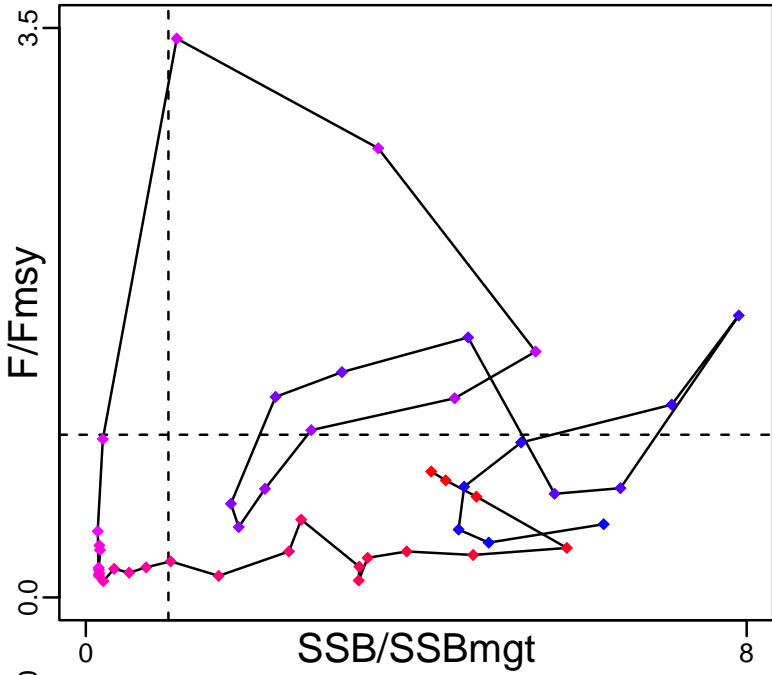
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-COD1F-XIV-1973-2021-ICESIMP2021-2
Area	NAFO 1F and ICES 14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2015, 2016, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	14,803
Fmgt	Fmgt-1/yr	2021	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	11,700
Flim	Flim-1/yr	2021	1.98
ERlim	-	-	-

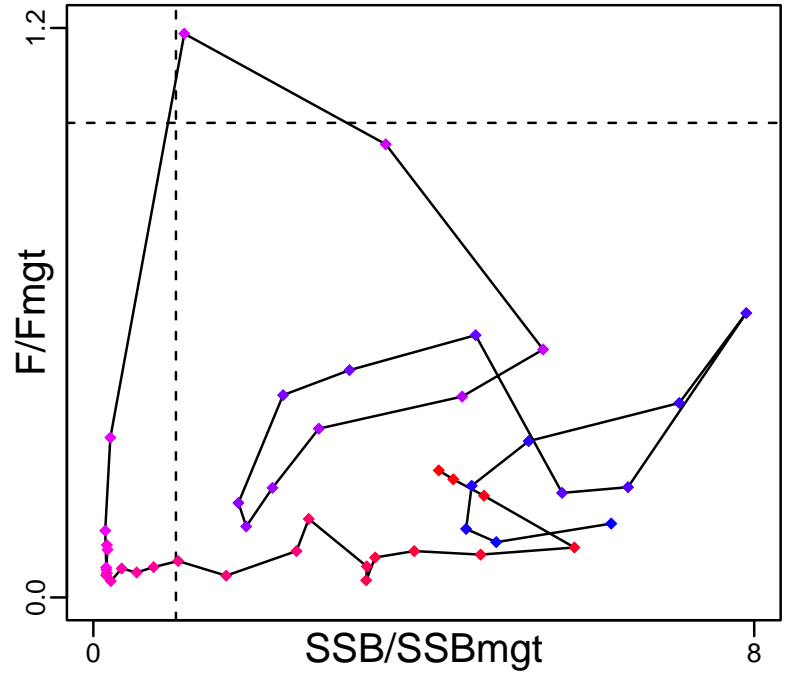
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	62,429	-	-
SSB	SSB-MT	2021	65,800	-	-
TN	-	-	-	-	-
R	R-E00	2021	6,930,000	-	1
F	F-1/yr	2021	0.369	-	-
ER	ER-calc-ratio	2019	0.241	-	-
TC	TC-MT	2021	15,900		
TL	TL-MT	2020	18,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.272		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.743		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.272		
ER/ERmgt	-	-	-		

Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

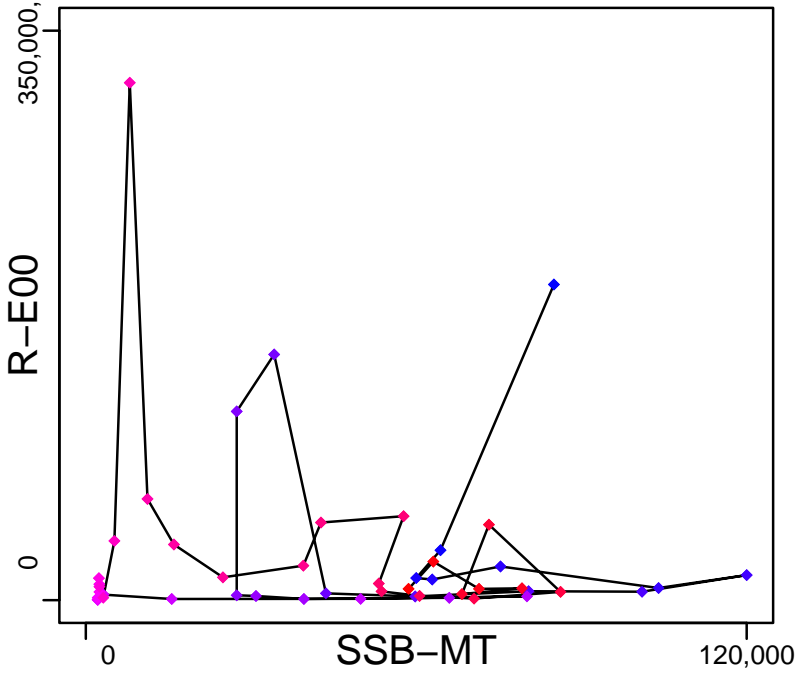
Kobe MSYpref (1972–2018–ICESIMP2018)



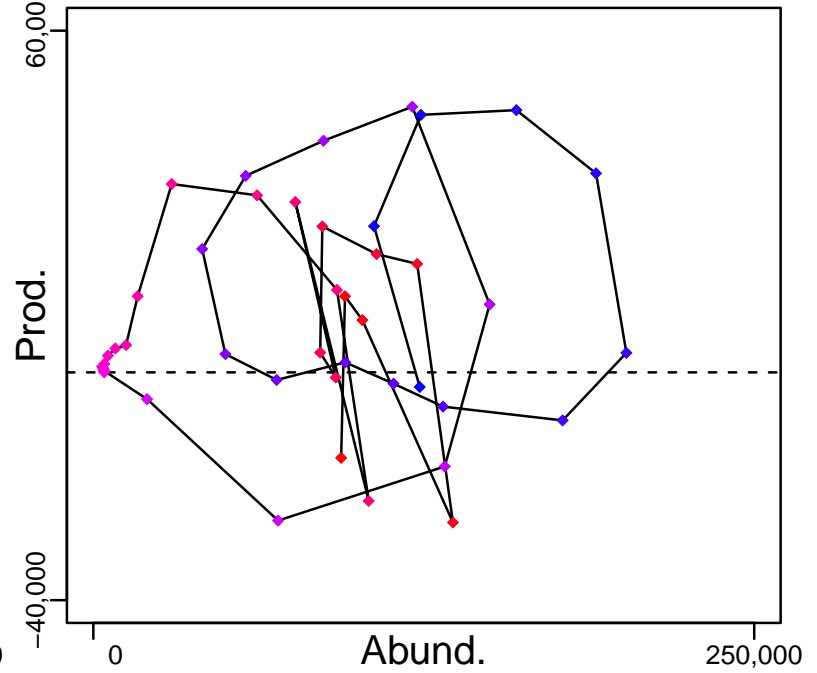
Kobe MGTpref (1972–2018–ICESIMP2018)



Spawner Recruit (1973–2021–ICESIMP2021–2)



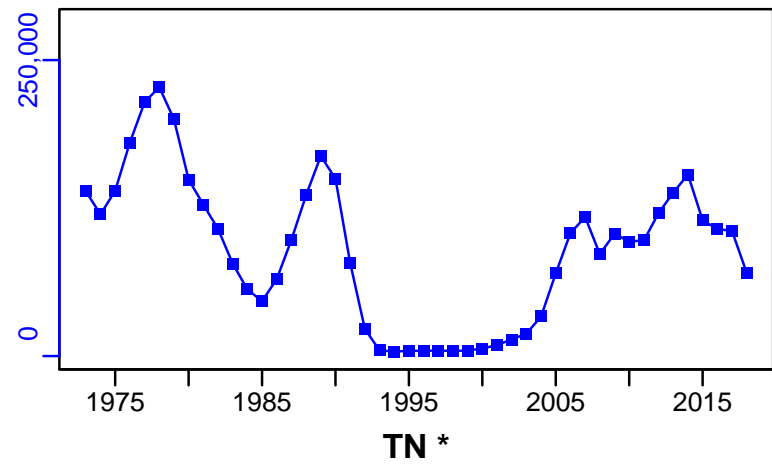
Production (1972–2019–ICESIMP2021)



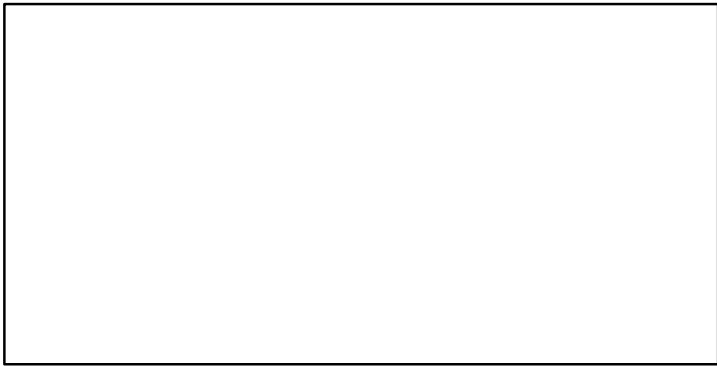
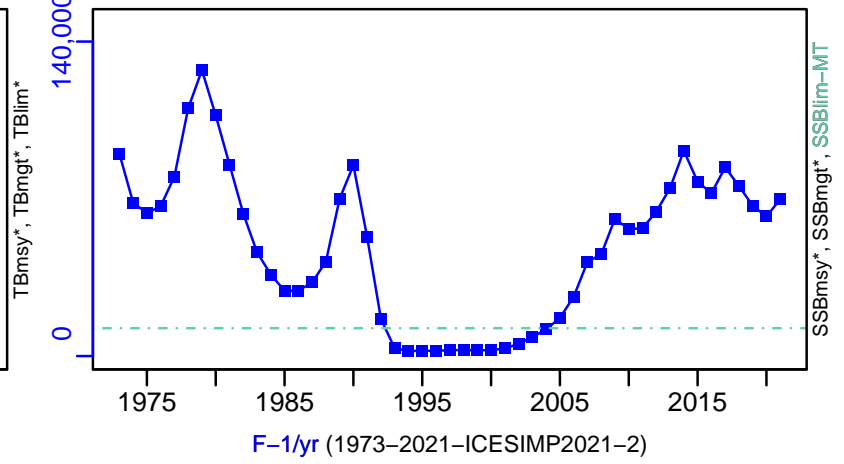
◆ Start Year ◆ End Year * No Data

Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

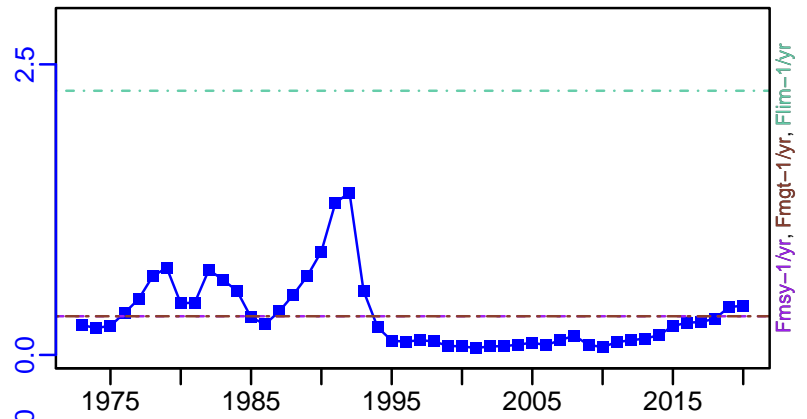
TB-MT (1972–2019–ICESIMP2021)



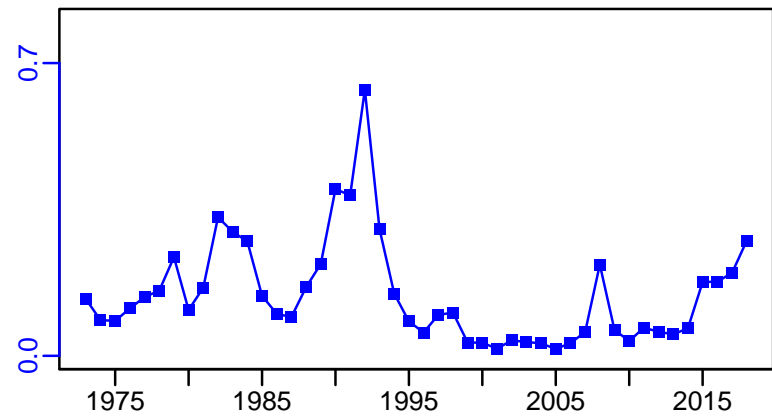
SSB-MT (1973–2021–ICESIMP2021–2)



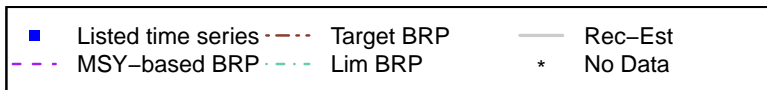
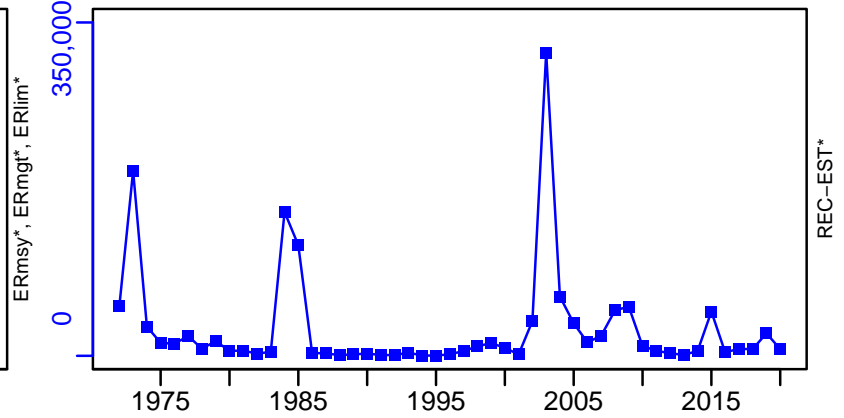
F-1/yr (1973–2021–ICESIMP2021–2)



ER-calc-ratio (1972–2019–ICESIMP2021)

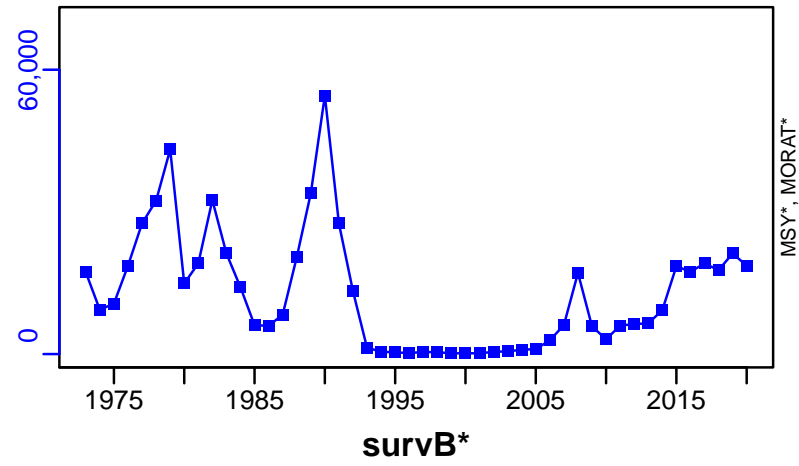


R-E00 (1973–2021–ICESIMP2021–2)

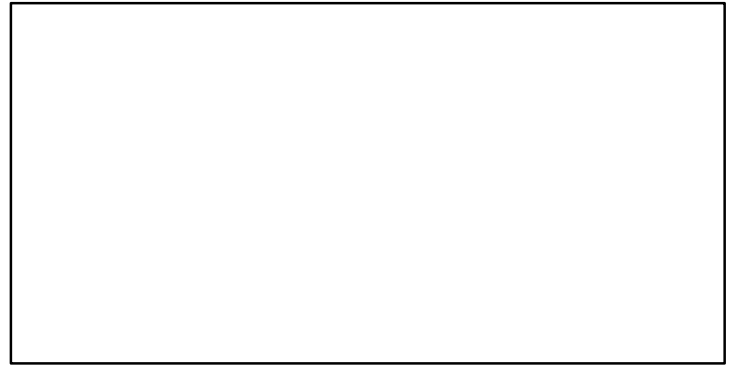


Atlantic cod NAFO 1F and ICES 14 [COD1F–XIV]

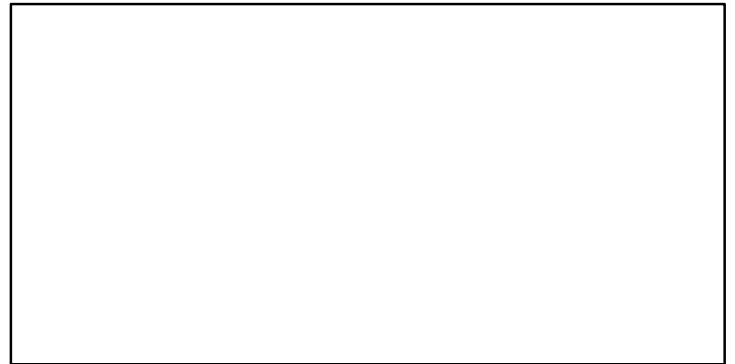
TC–MT, TL*, RecC* (1973–2021–ICESIMP2021–2)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

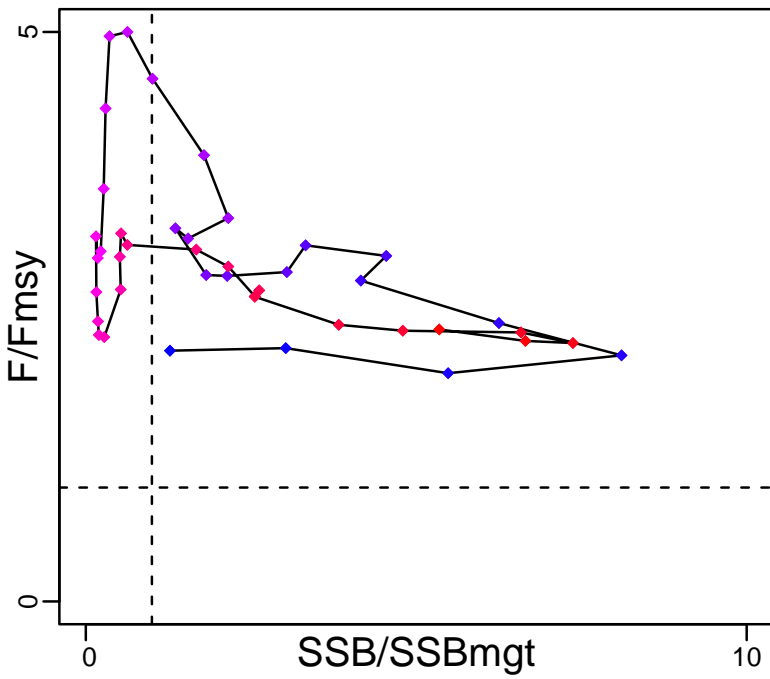
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-COD1IN-1976-2021-ICESIMP2021-2
Area	NAFO Subarea 1 (inshore)
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016, 2016, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.27
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	5983
Fmgt	Fmgt-1/yr	2021	0.27
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	4350
Flim	-	-	-
ERlim	-	-	-

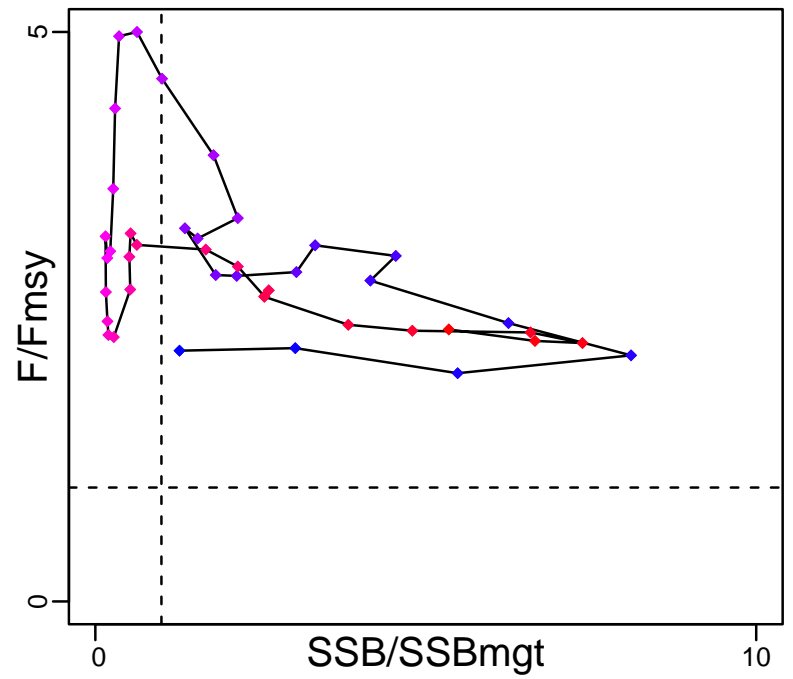
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	37,899	-	-
SSB	SSB-MT	2021	23,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	11,700	-	1
F	F-1/yr	2021	0.736	-	-
ER	ER-calc-ratio	2019	0.588	-	-
TC	TC-MT	2021	17,900		
TL	TL-MT	2020	19,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	2.726		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	5.649		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	2.726		
ER/ERmgt	-	-	-		

Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

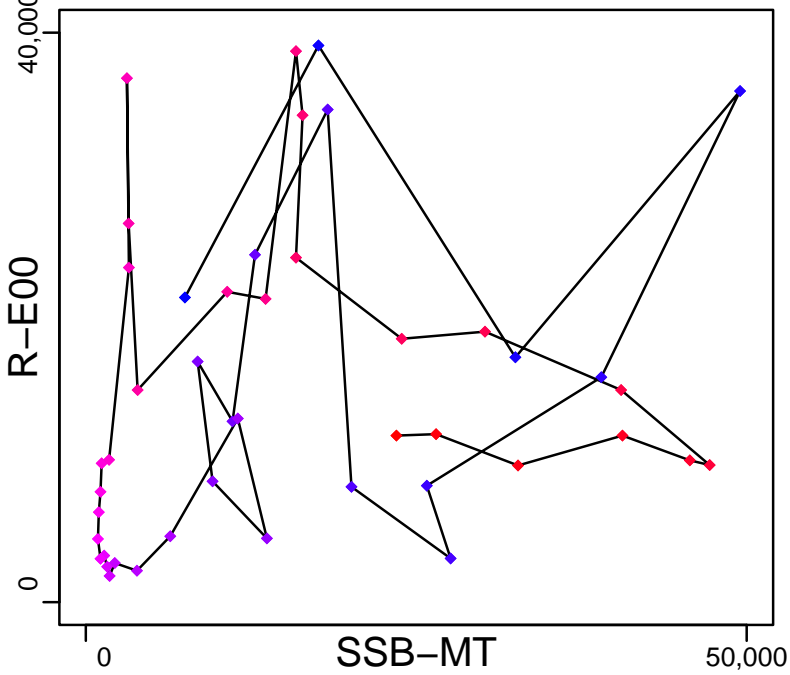
Kobe MSYpref (1975–2018–ICESIMP2018)



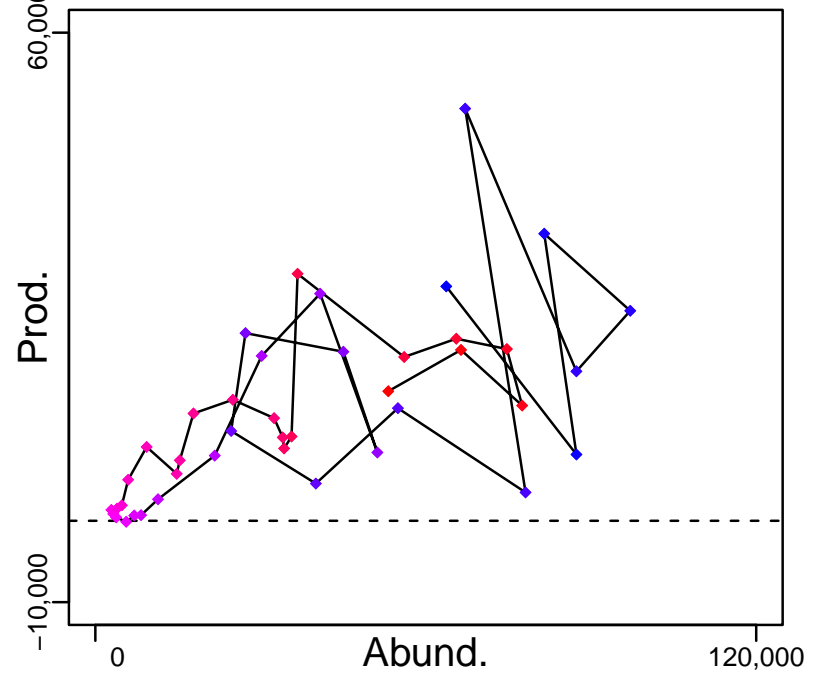
Kobe MGTpref (1975–2018–ICESIMP2018)



Spawner Recruit (1976–2021–ICESIMP2021–2)



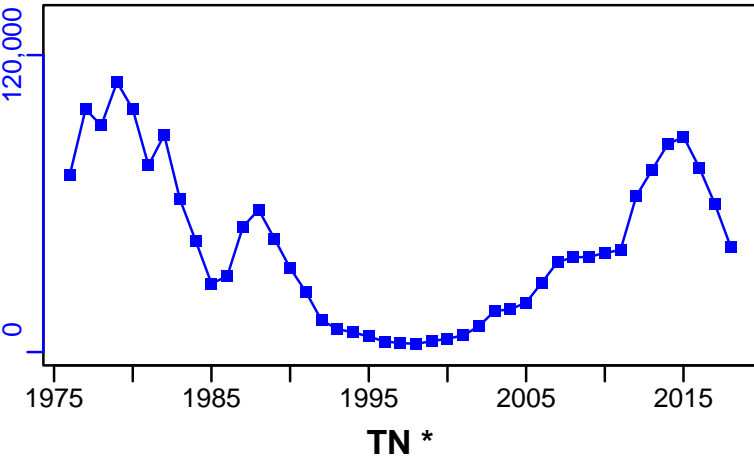
Production (1975–2019–ICESIMP2021)



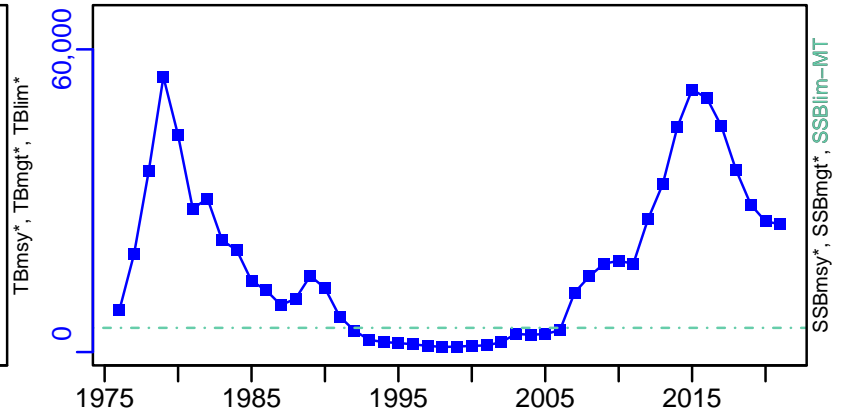
◆ Start Year ◆ End Year * No Data

Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

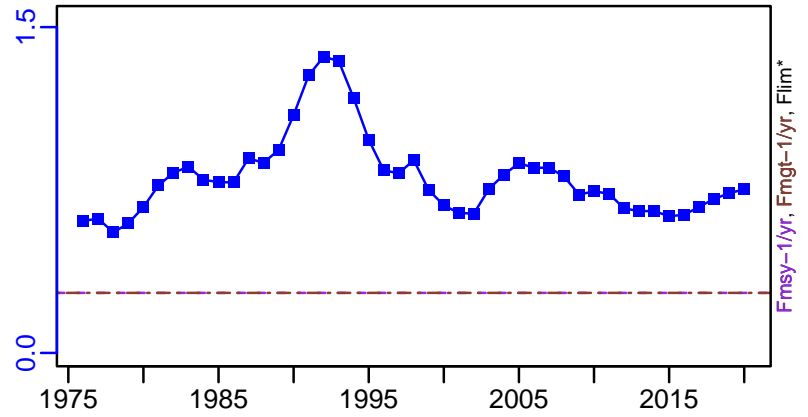
TB-MT (1975–2019–ICESIMP2021)



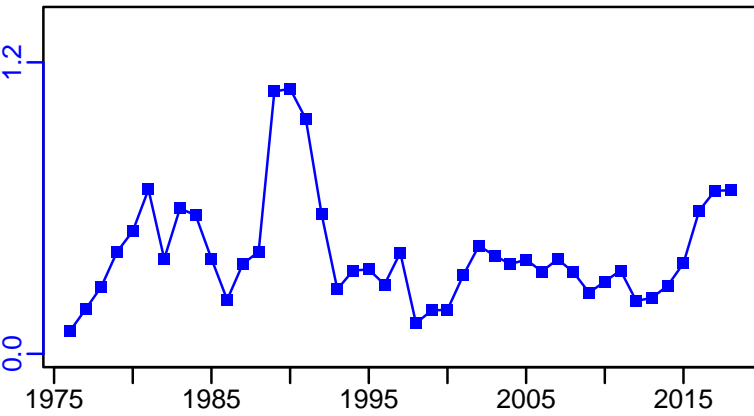
SSB-MT (1976–2021–ICESIMP2021–2)



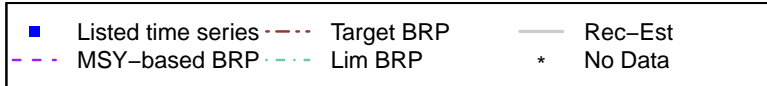
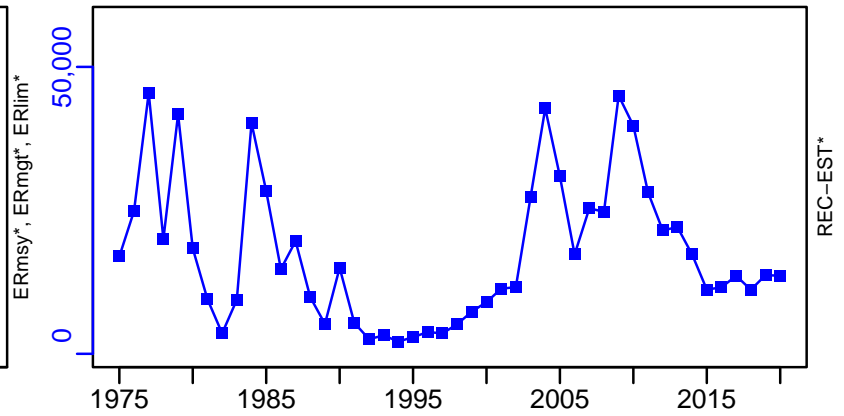
F-1/yr (1976–2021–ICESIMP2021–2)



ER-calc-ratio (1975–2019–ICESIMP2021)



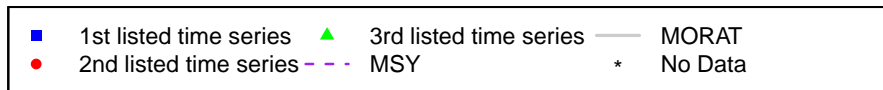
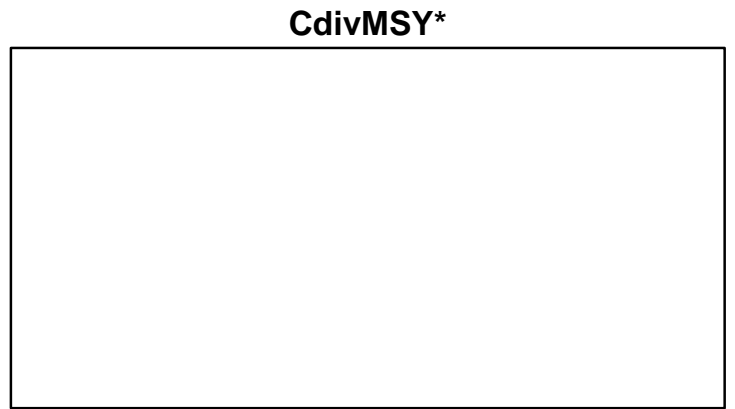
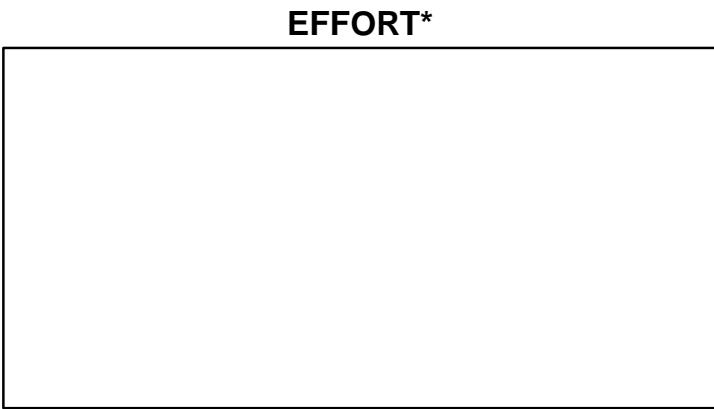
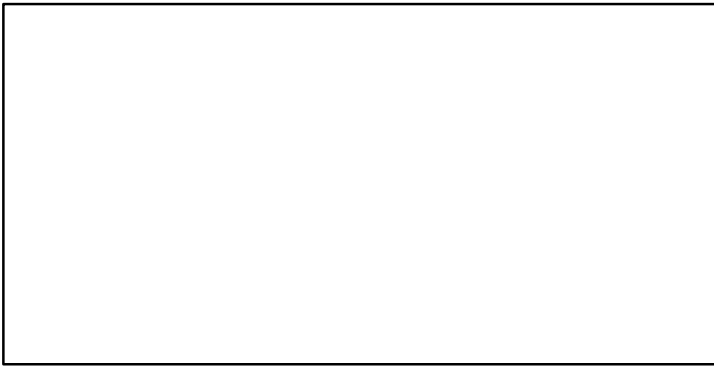
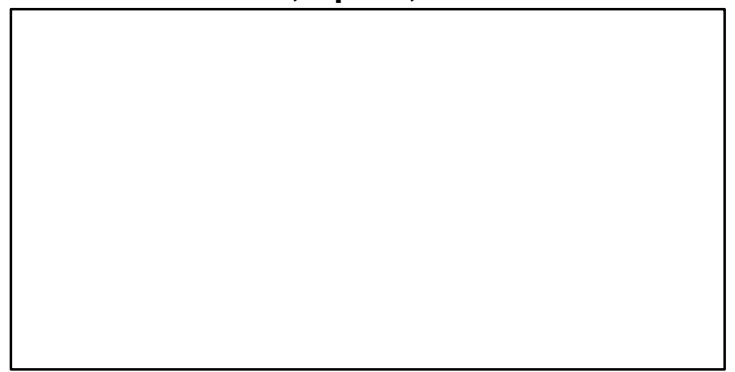
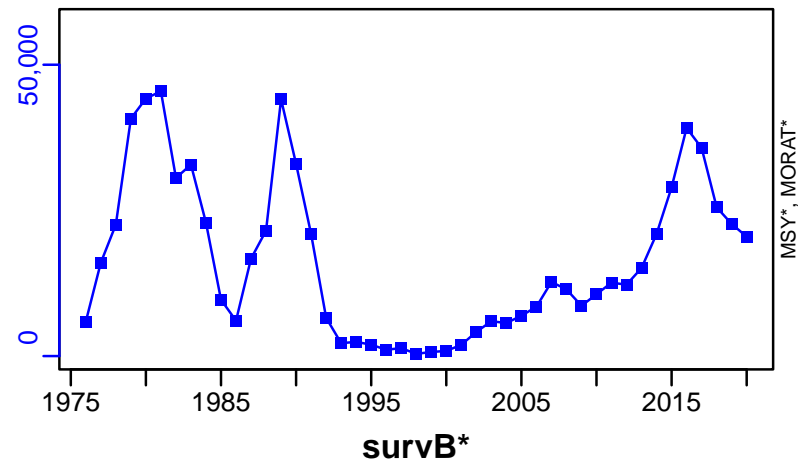
R-E00 (1976–2021–ICESIMP2021–2)



Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

TC-MT, TL*, RecC* (1976-2021-ICESIMP2021-2)

TAC*, Cpair*, Cadv*



Atlantic cod Southern Labrador-Eastern Newfoundland [COD2J3KL]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-NFLD-COD2J3KL-1959-2021-HIVELY
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	2014, 2011, 2018, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	932,432
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	643,000	-	2+
SSB	SSB-MT	2021	411,000	-	-
TN	TN-E00	2021	1.126×10^9	-	-
R	R-E00	2021	3.98×10^8	-	2
F	F-1/yr	2021	0.02	-	5 to 14
ER	ER-calc-ratio	2021	0.015	-	-
TC	TC-MT	2018	13,030		
TL	TL-MT	2021	10,183		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

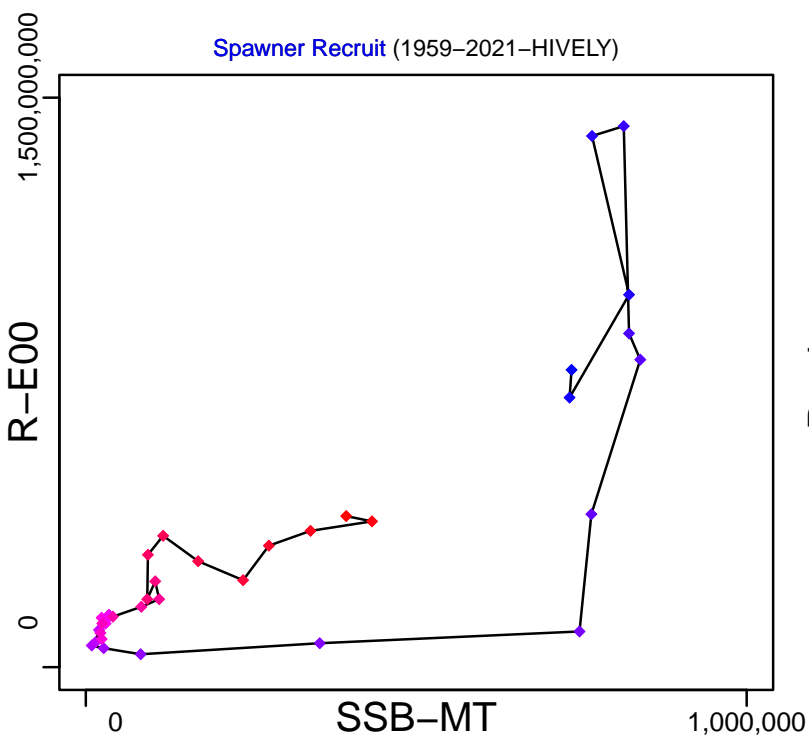
Kobe MSY*



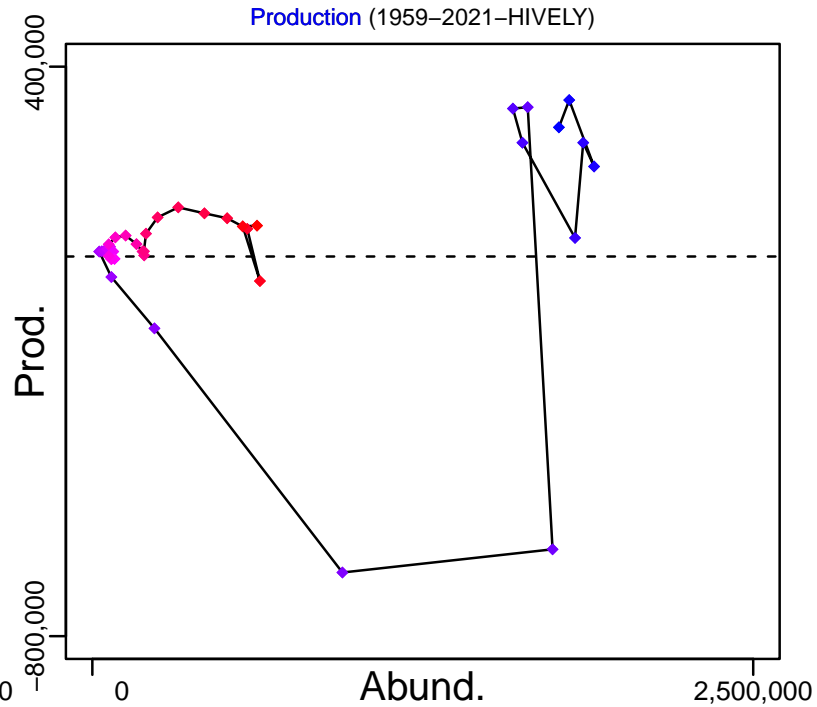
Kobe MGT*



Spawner Recruit (1959–2021–HIVELY)

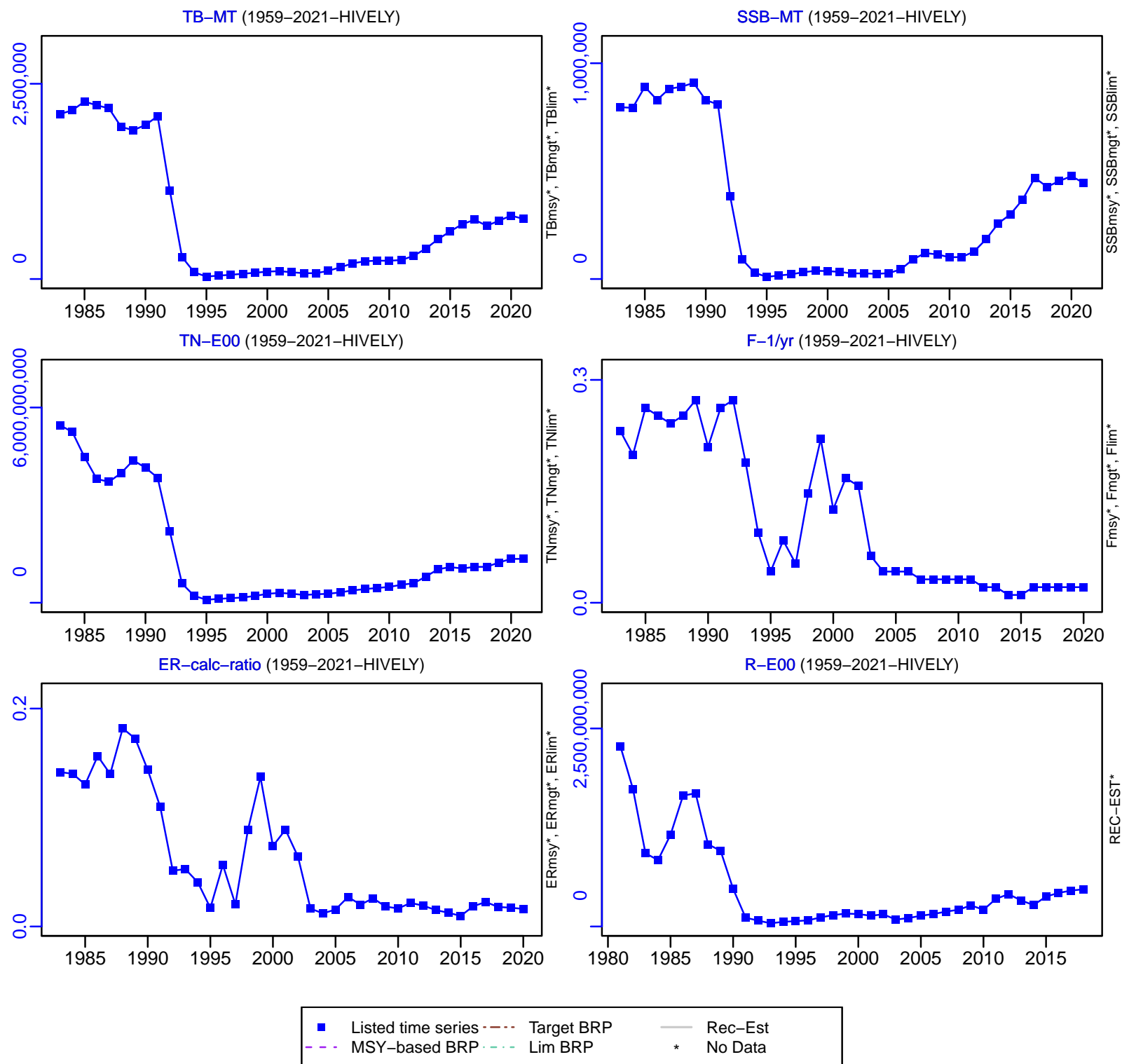


Production (1959–2021–HIVELY)



◆ Start Year ◆ End Year * No Data

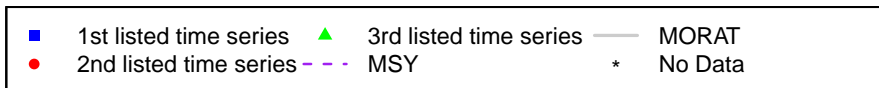
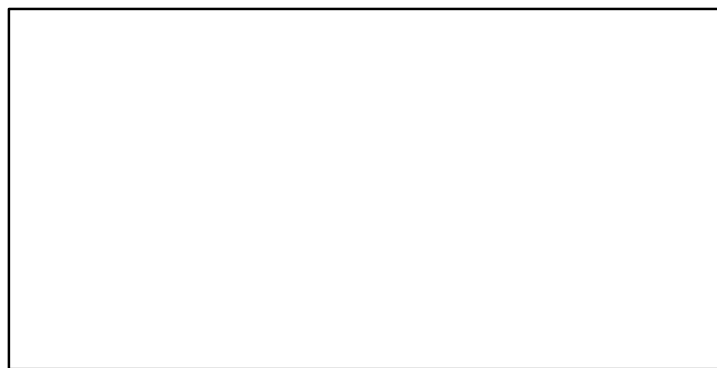
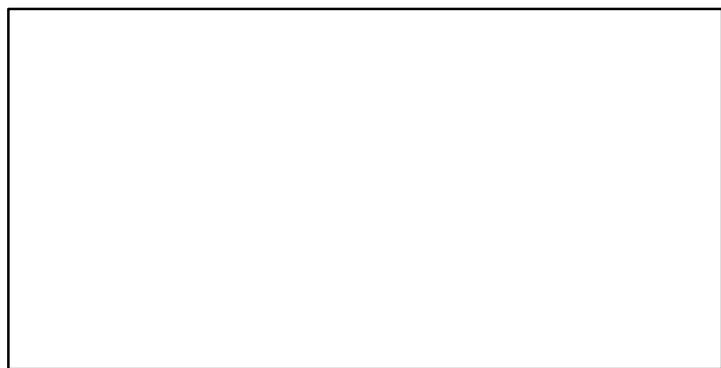
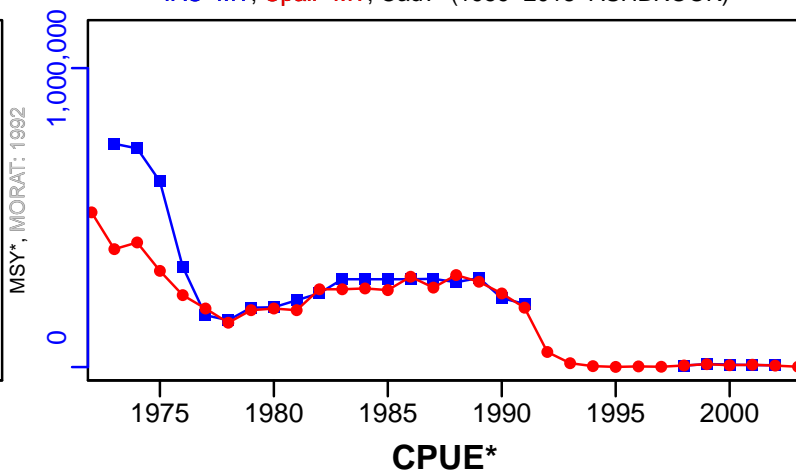
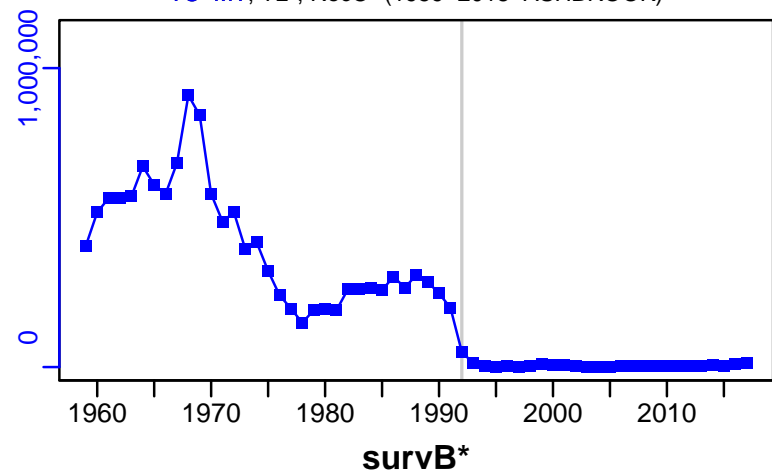
Atlantic cod Southern Labrador–Eastern Newfoundland [COD2J3KL]



Atlantic cod Southern Labrador–Eastern Newfoundland [COD2J3KL]

TC–MT, TL*, RecC* (1959–2018–ASHBROOK)

TAC–MT, Cpair–MT, Cadv* (1959–2018–ASHBROOK)



Atlantic cod Flemish Cap [COD3M]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NAFO-SC-COD3M-1960-2012-CHING
Area	Flemish Cap
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2012

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	58,800	-	-
SSB	SSB-MT	2012	36,100	-	-
TN	-	-	-	-	-
R	R-E00	2012	45,600	-	-
F	F-1/yr	2012	0.327	-	-
ER	ER-ratio	2012	0.236	-	-
TC	TC-MT	2012	13,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

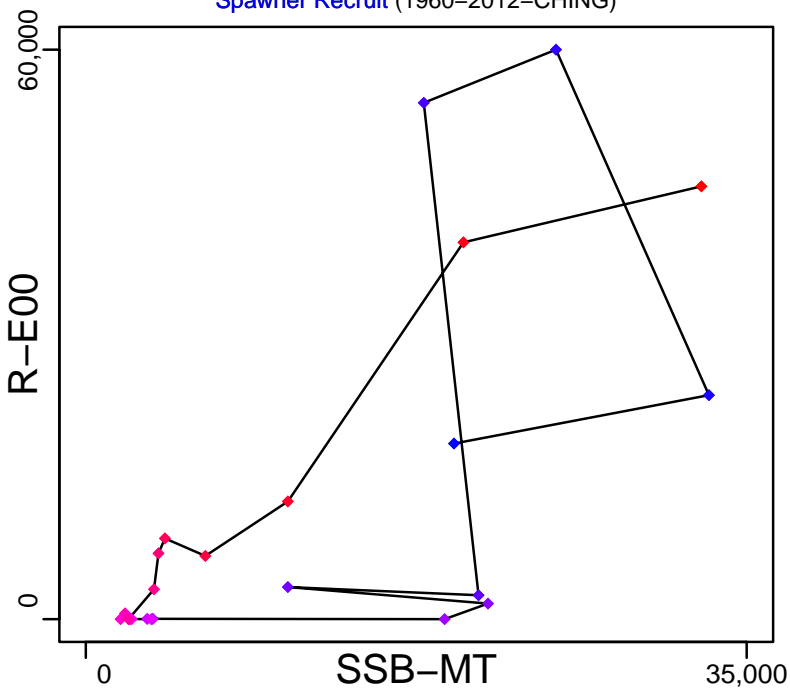
Kobe MSY*



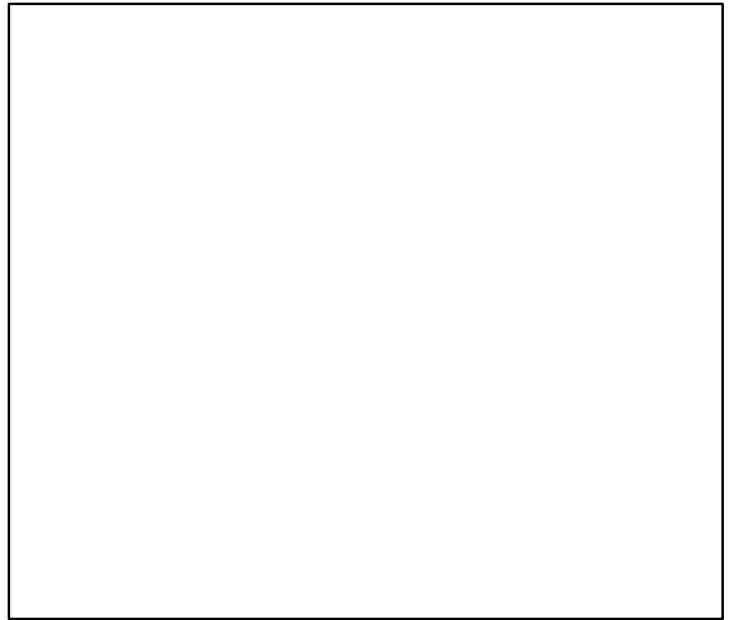
Kobe MGT*



Spawner Recruit (1960–2012–CHING)



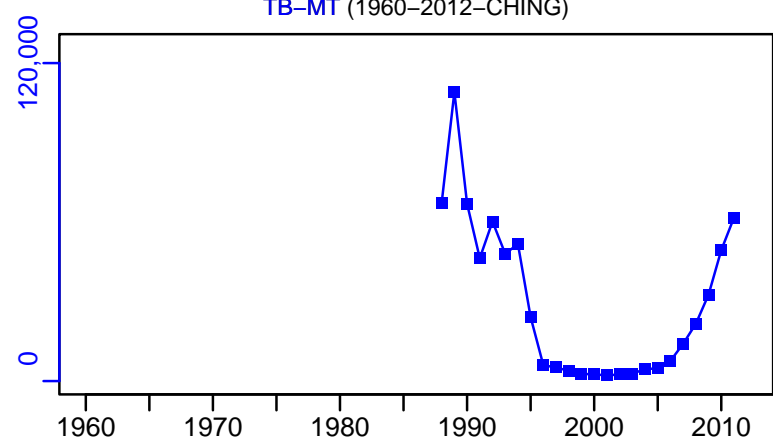
Production*



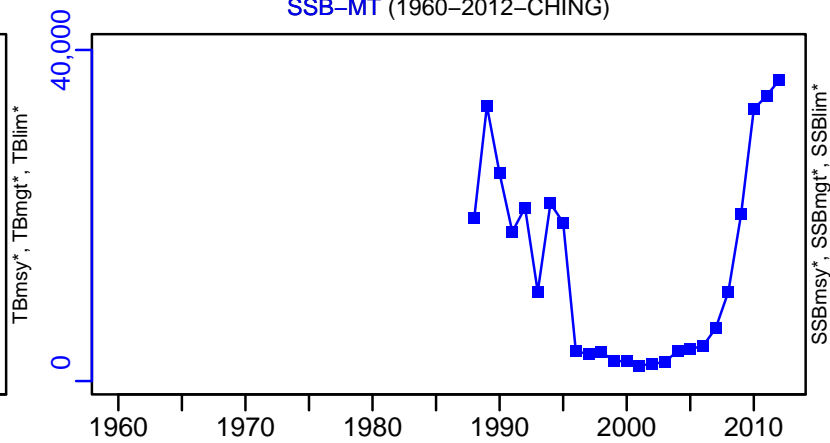
◆ Start Year ◆ End Year * No Data

Atlantic cod Flemish Cap [COD3M]

TB-MT (1960–2012–CHING)



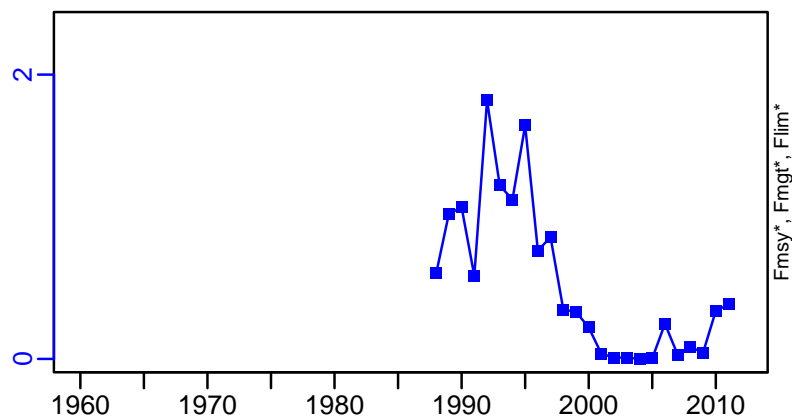
SSB-MT (1960–2012–CHING)



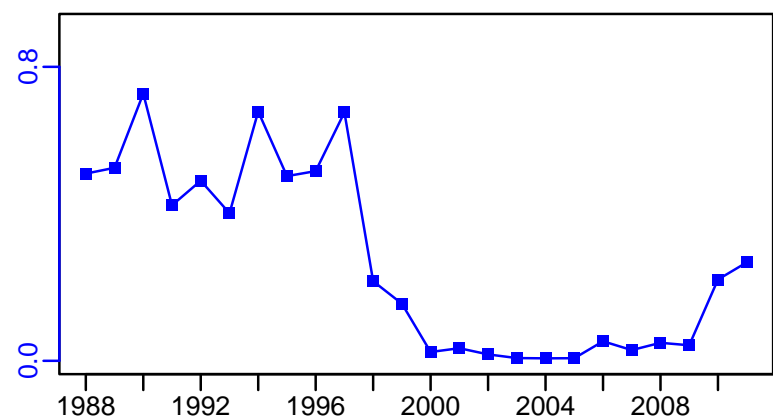
TN *



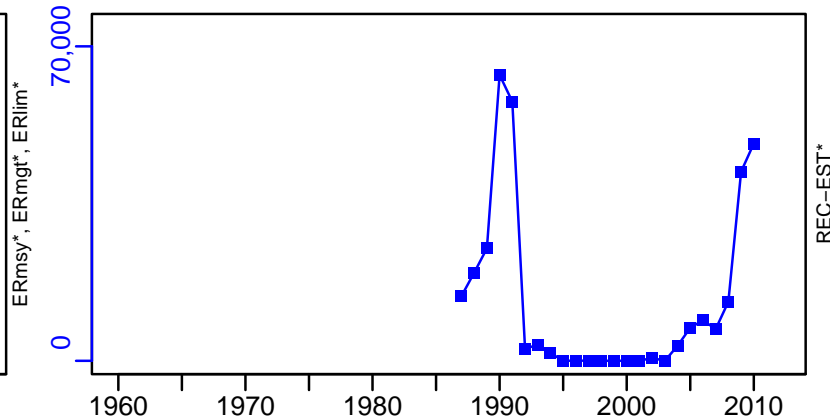
F-1/yr (1960–2012–CHING)



ER-ratio (1960–2012–CHING)



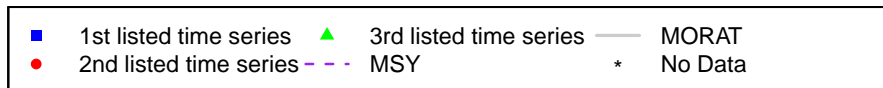
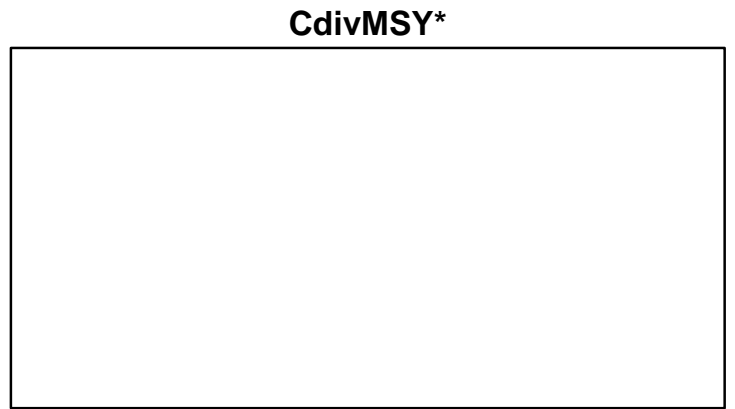
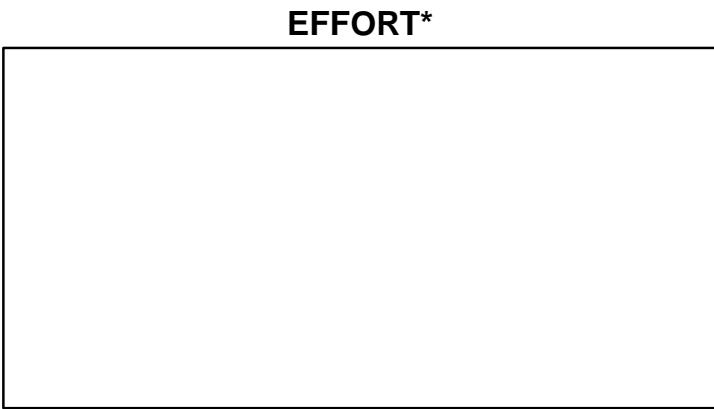
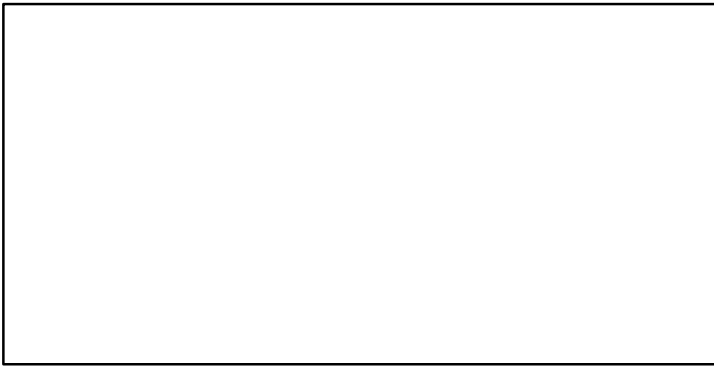
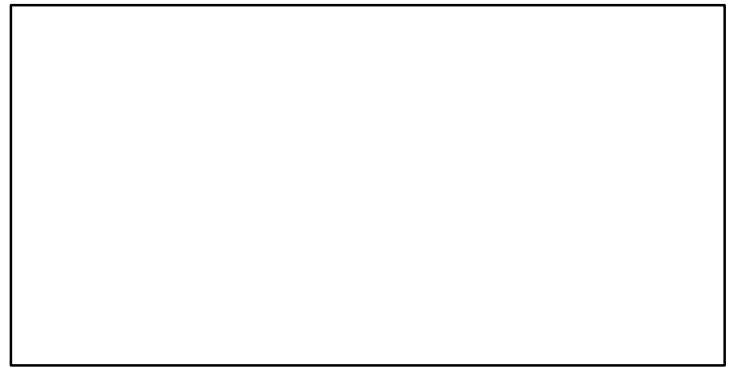
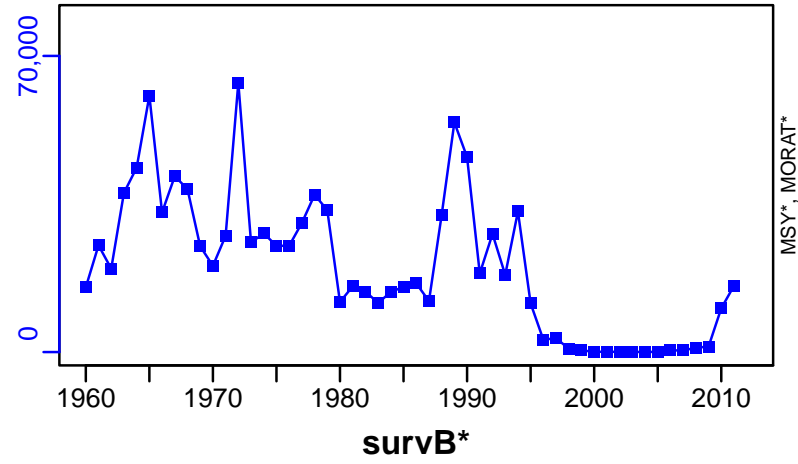
R-E00 (1960–2012–CHING)



Atlantic cod Flemish Cap [COD3M]

TC-MT, TL*, RecC* (1960-2012-CHING)

TAC*, Cpair*, Cadv*



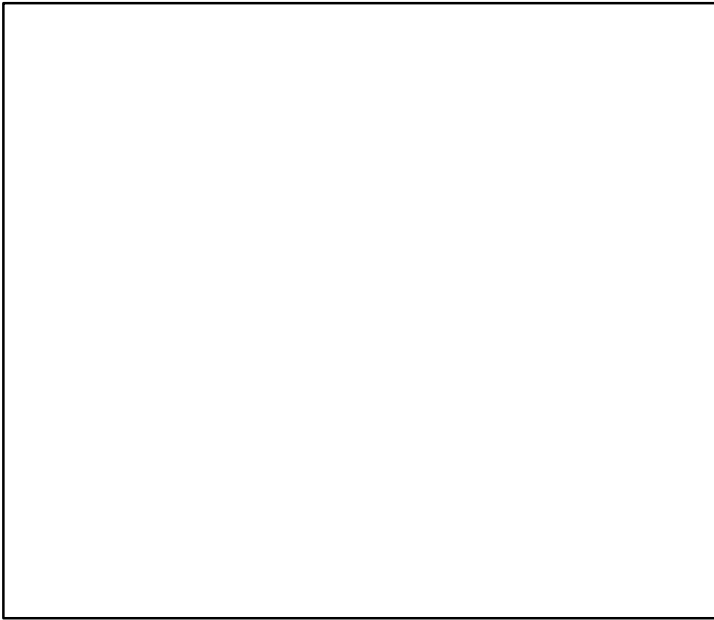
Atlantic cod Southern Grand Banks [COD3NO]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NAFO-SC-COD3NO-1953-2011-CHING
Area	Southern Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2011

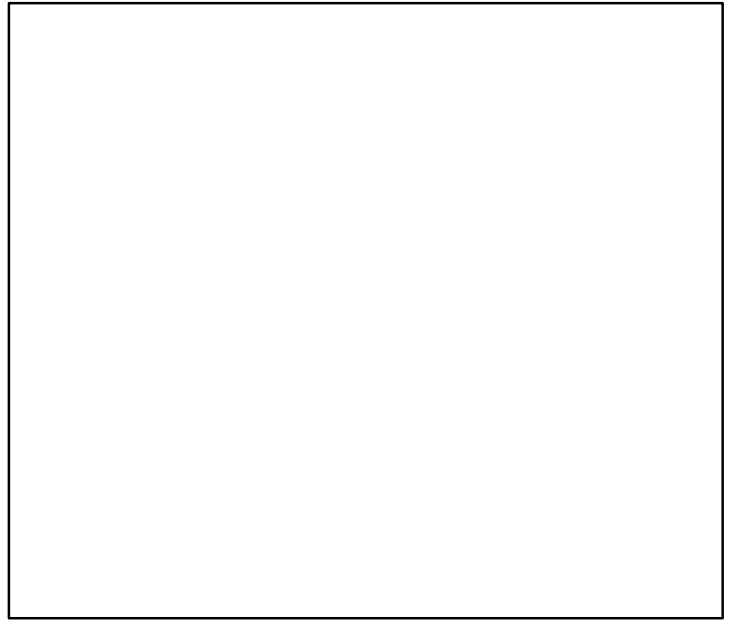
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	7570	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.108	-	-
TC	TC-MT	2011	819		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

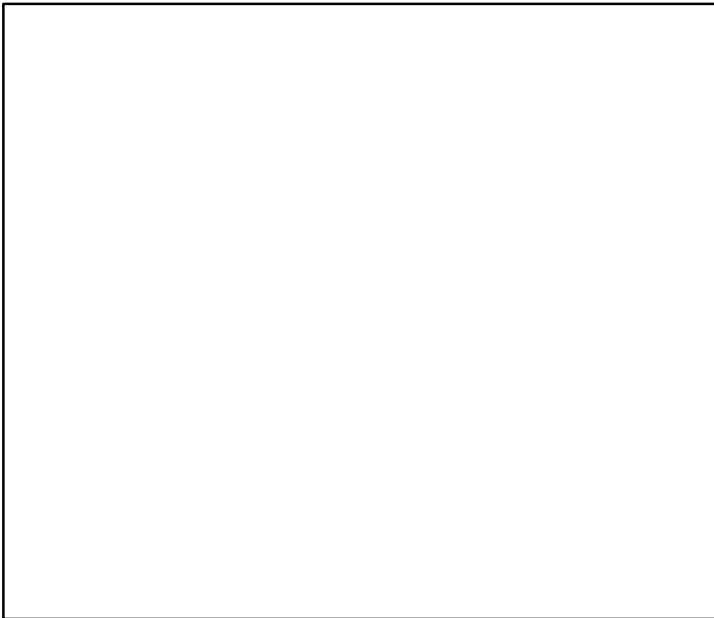
Kobe MSY*



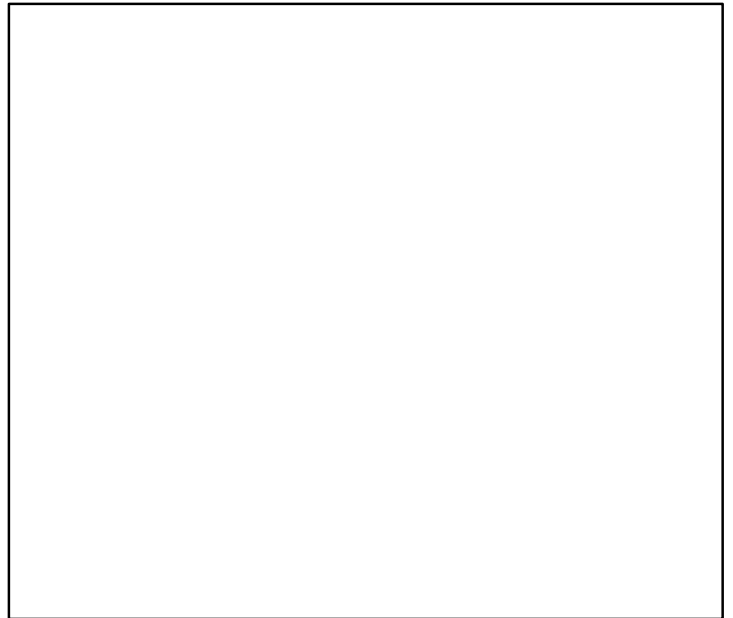
Kobe MGT*



Spawner Recruit*



Production*

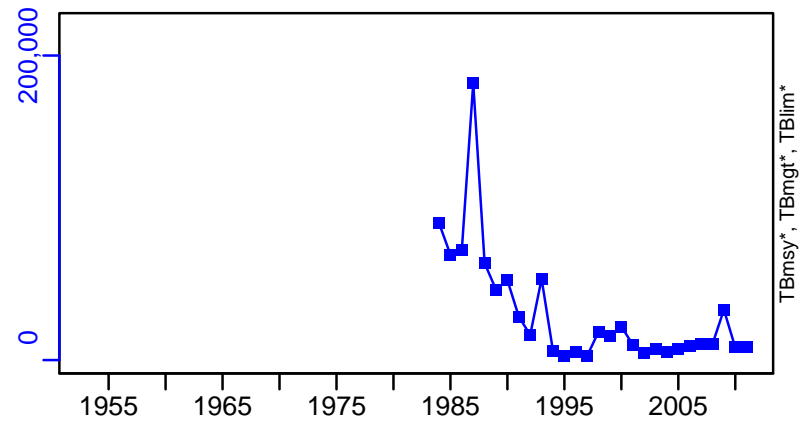


◆ Start Year ◆ End Year * No Data

Atlantic cod Southern Grand Banks [COD3NO]

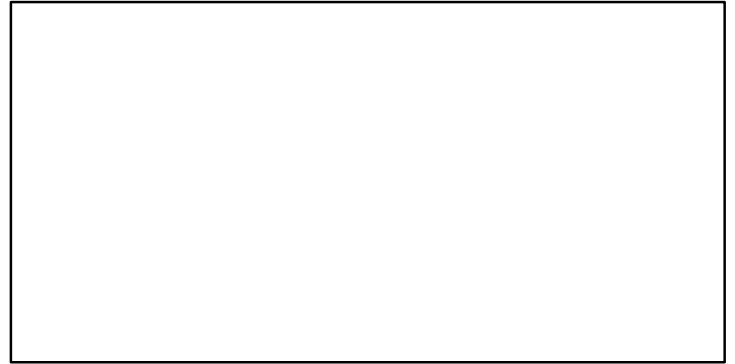
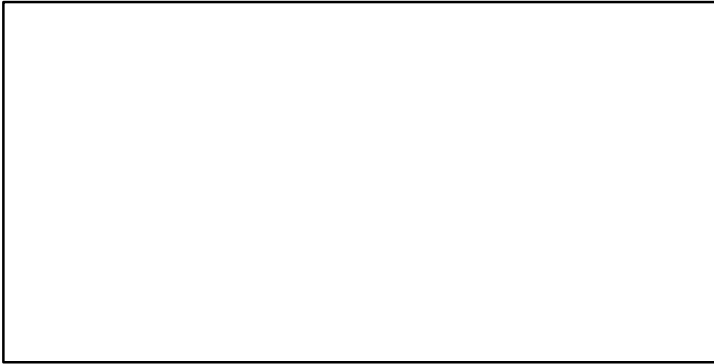
TB-MT (1953–2011–CHING)

SSB*



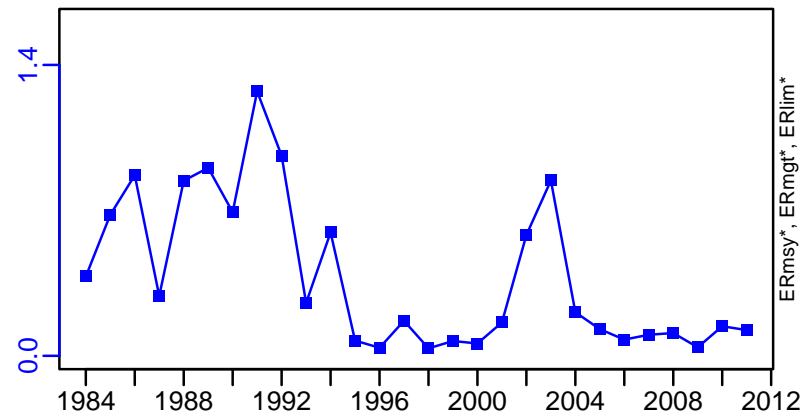
TN *

F*



ER-ratio (1953–2011–CHING)

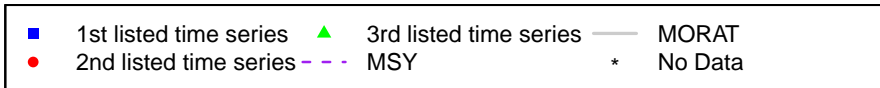
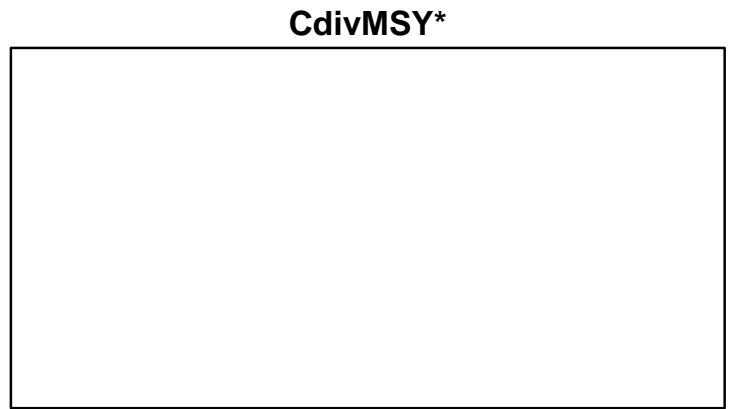
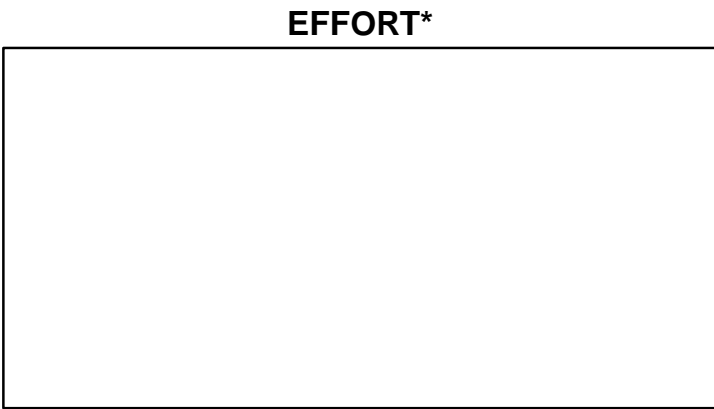
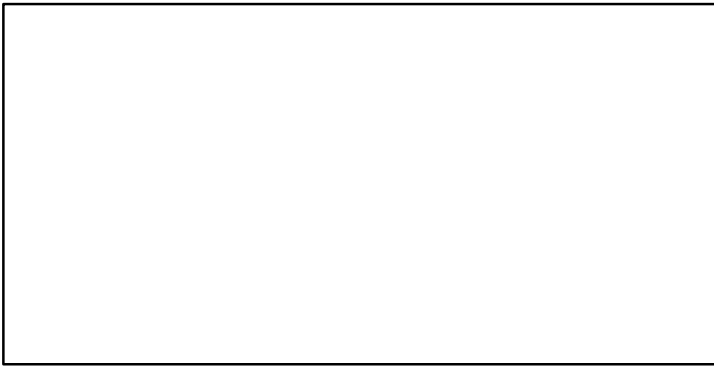
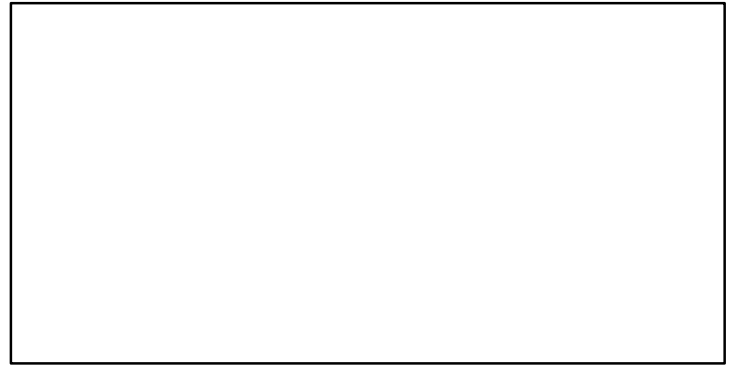
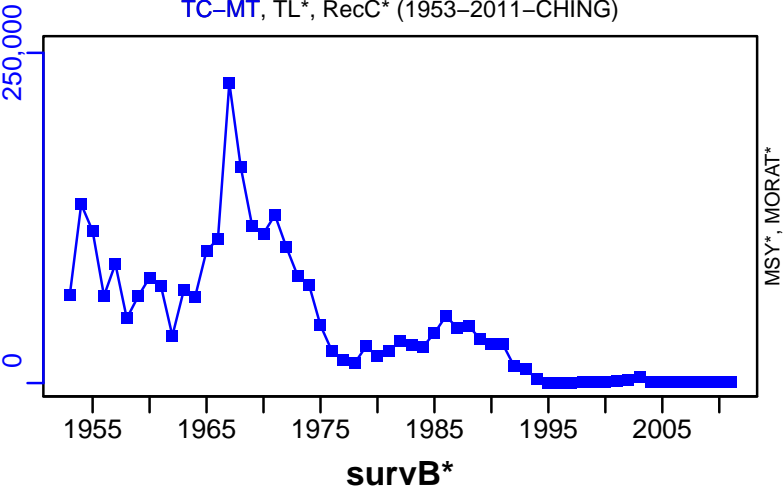
Recruits*



Atlantic cod Southern Grand Banks [COD3NO]

TC-MT, TL*, RecC* (1953-2011-CHING)

TAC*, Cpair*, Cadv*



Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-QUE-COD3Pn4RS-1964-2019-ASHBROOK
Area	Northern 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, 2012, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	188,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2019	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	116,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	11,467	-	3+
SSB	SSB-MT	2019	12,921	-	3+
TN	TN-E00	2015	1.44×10^8	-	3+
R	R-E00	2019	27,027	-	3
F	F-1/yr	2015	0.09	-	7 to 9
ER	ER-ratio	2019	0.179	-	9-Jul
TC	-	-	-		
TL	TL-MT	2019	2496		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.069		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

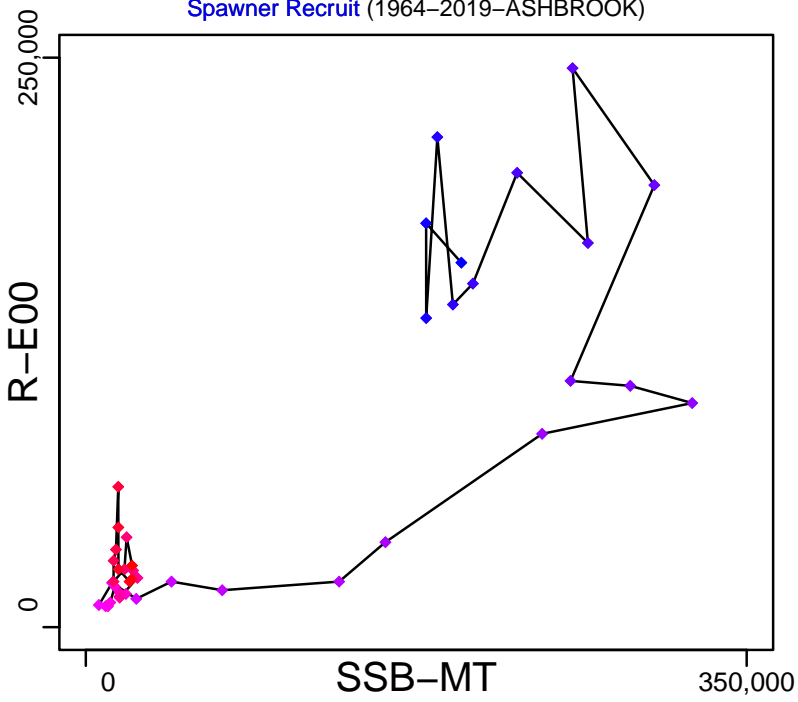
Kobe MSY*



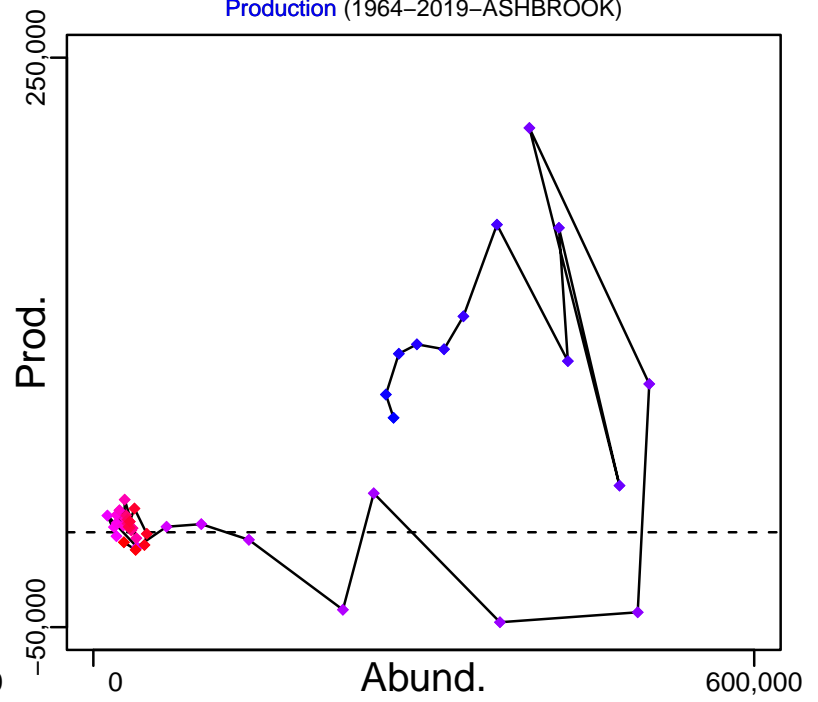
Kobe MGT*



Spawner Recruit (1964–2019–ASHBROOK)

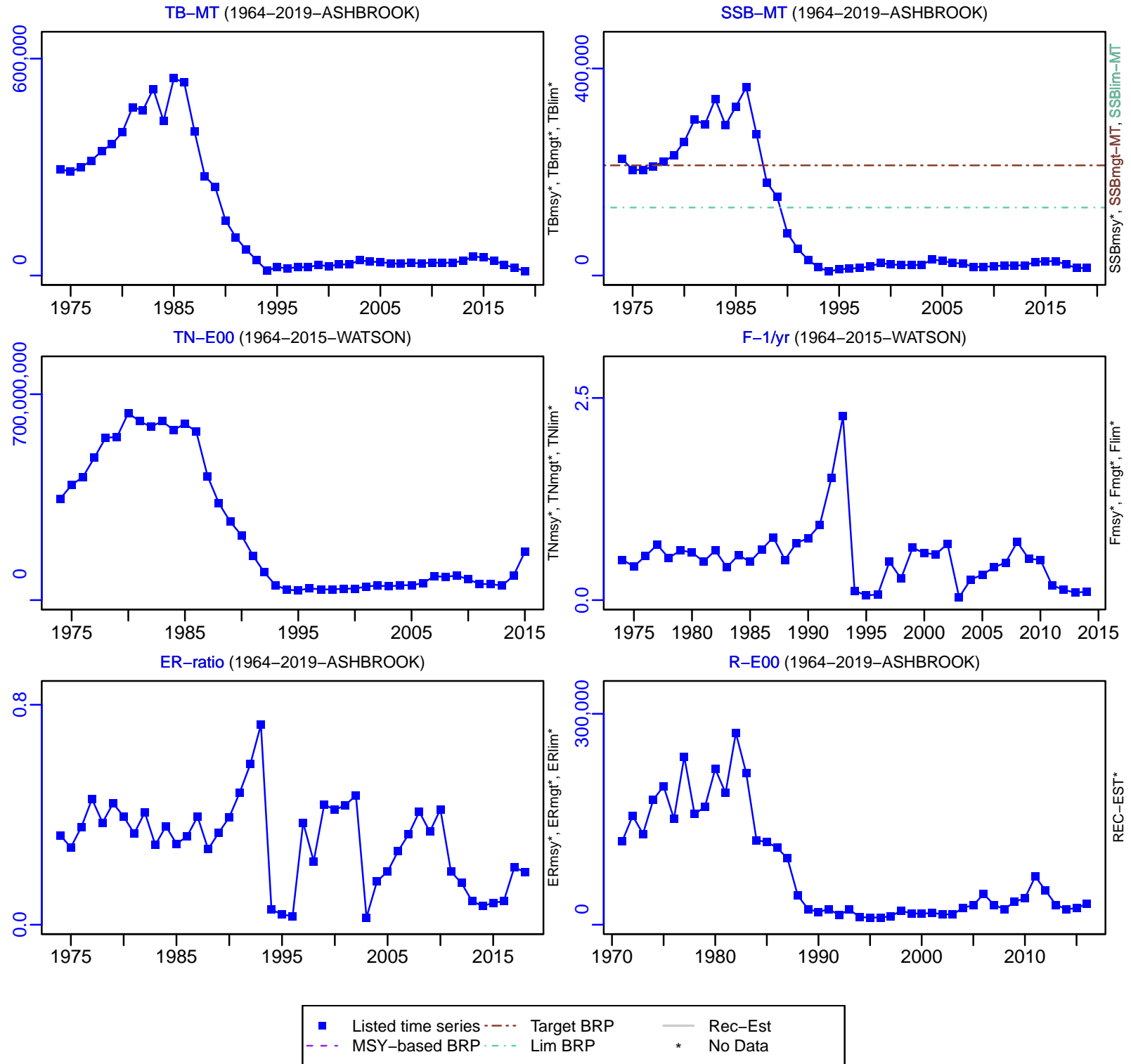


Production (1964–2019–ASHBROOK)



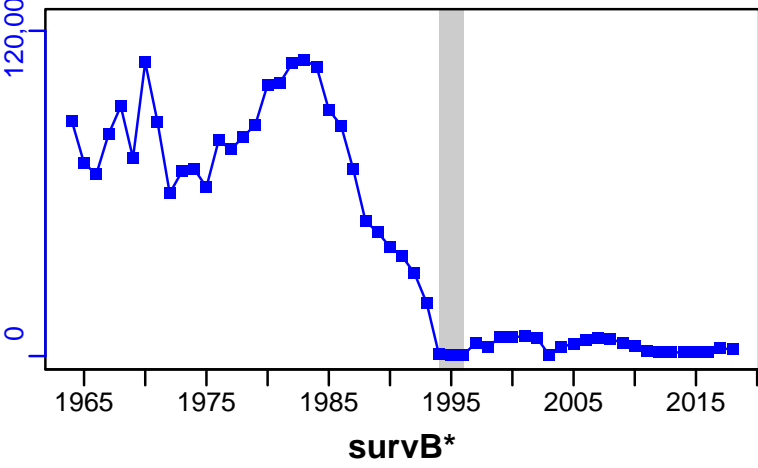
◆ Start Year ◆ End Year * No Data

Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]

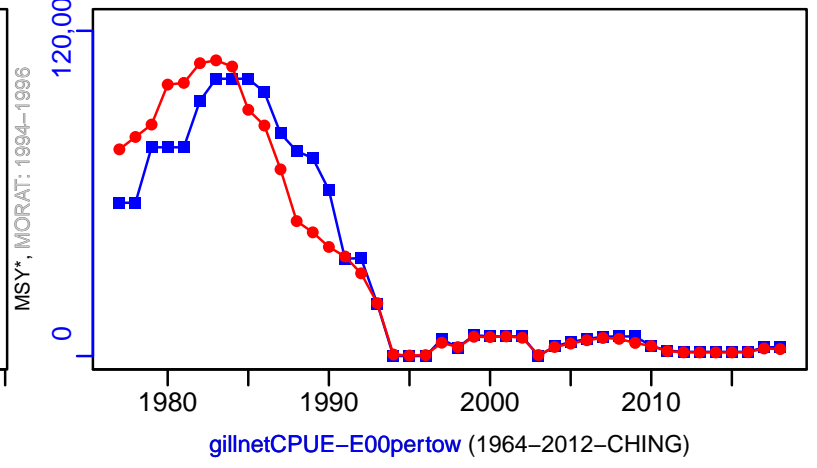


Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]

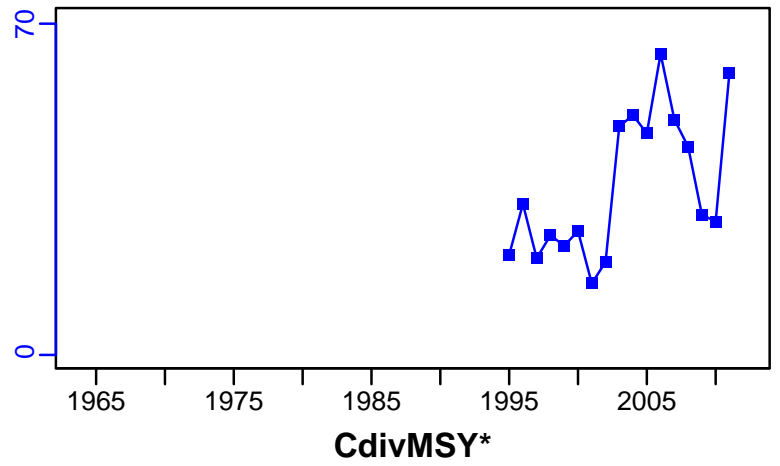
TL-MT, TC*, RecC* (1964–2019–ASHBROOK)



TAC-MT, Cpair-MT, Cadv* (1964–2019–ASHBROOK)



gillnetCPUE-E00pertow (1964–2012–CHING)



EFFORT*



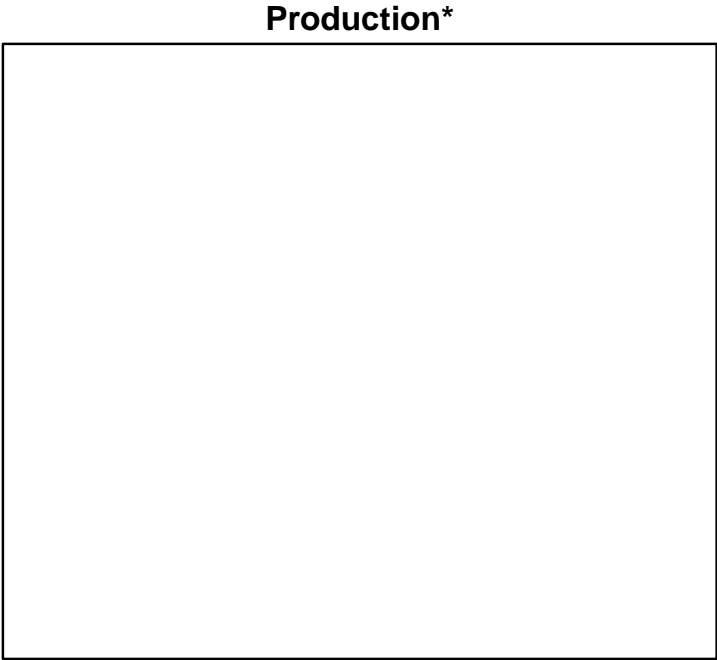
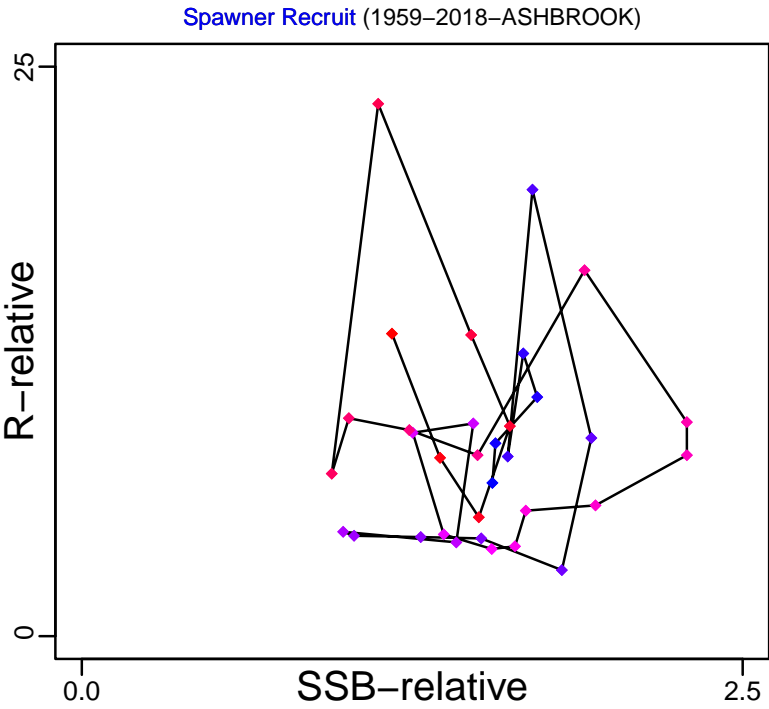
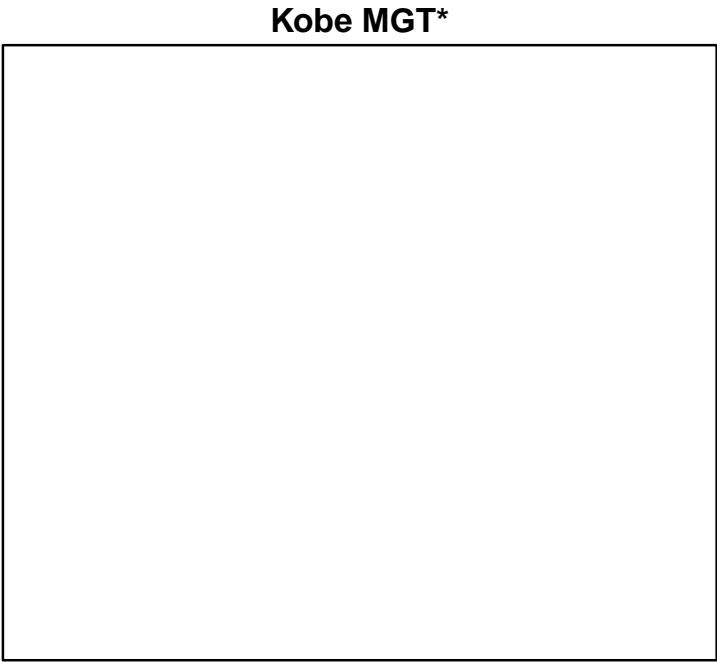
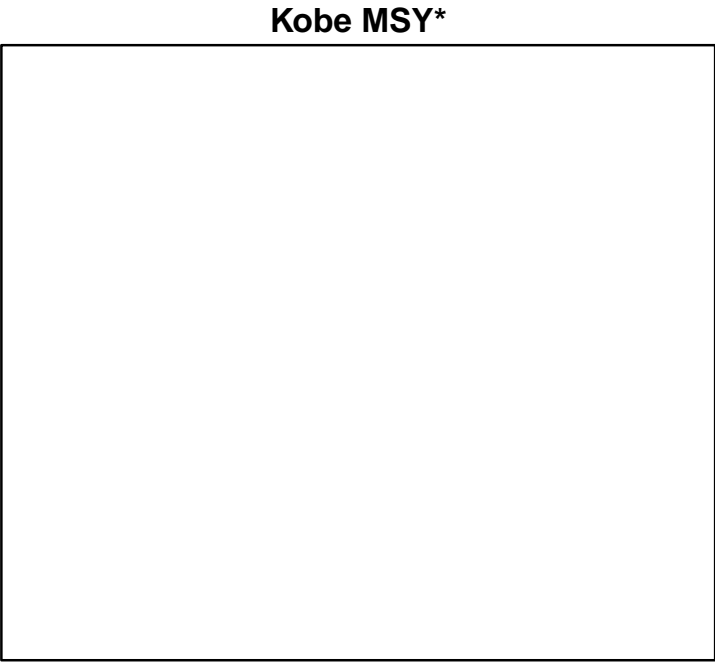
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Atlantic cod St. Pierre Bank [COD3Ps]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-NFLD-COD3Ps-1959-2018-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	2014, 2011, 2018

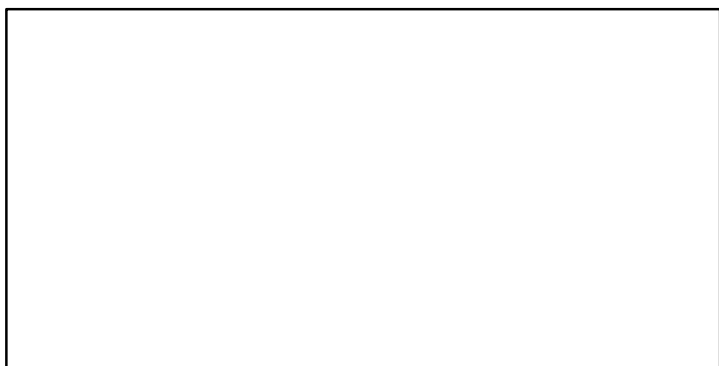
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	1.489	-	-
TN	-	-	-	-	-
R	R-relative	2018	13	-	1
F	-	-	-	-	-
ER	ER-ratio	2011	0.141	-	-
TC	TC-MT	2014	4190		
TL	TL-MT	2018	6866		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

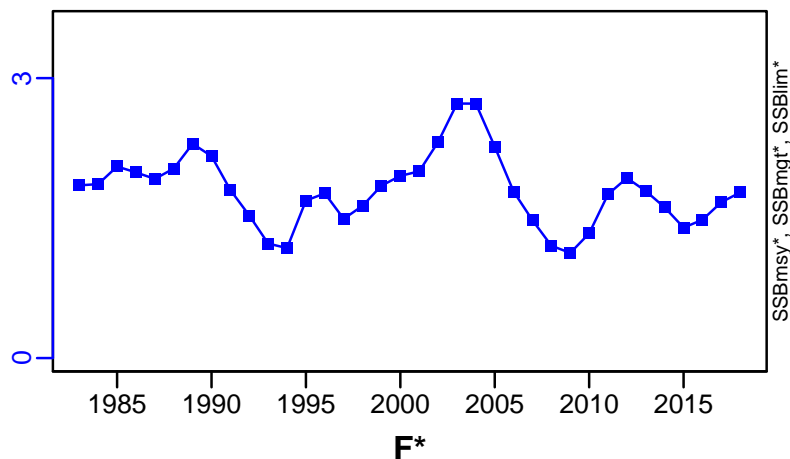


Atlantic cod St. Pierre Bank [COD3Ps]

TB*



SSB-relative (1959–2018–ASHBROOK)



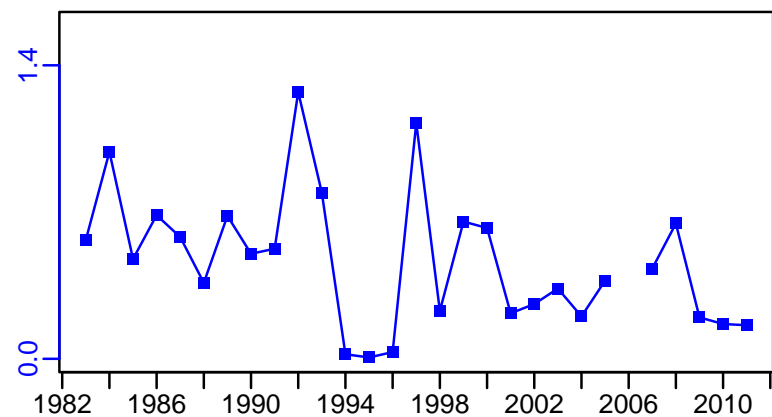
TN *



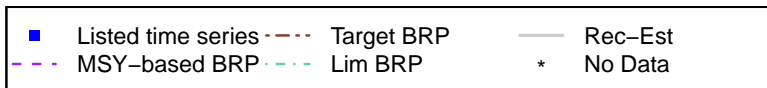
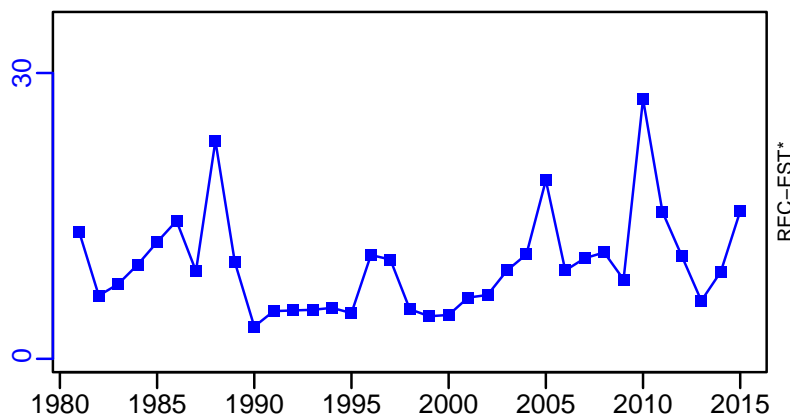
F*



ER-ratio (1959–2011–CHING)

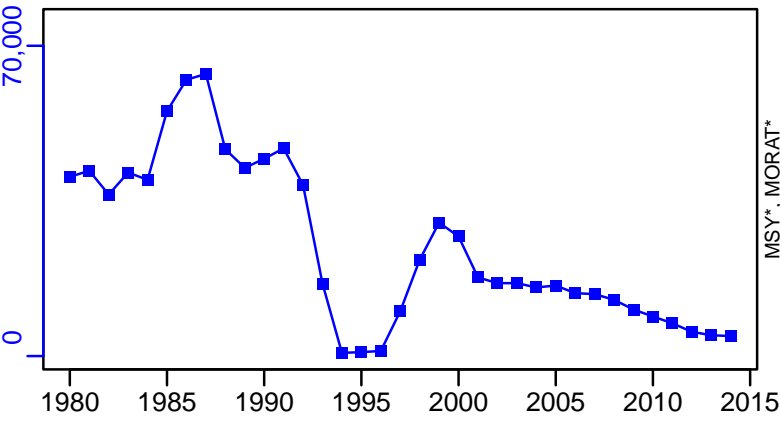


R-relative (1959–2018–ASHBROOK)

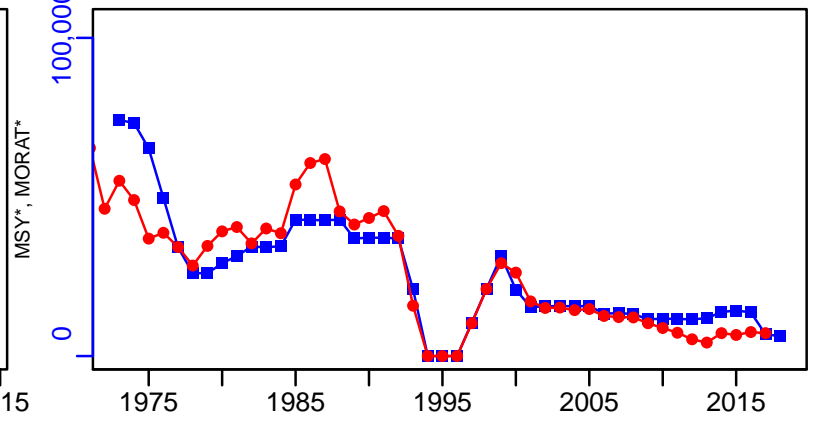


Atlantic cod St. Pierre Bank [COD3Ps]

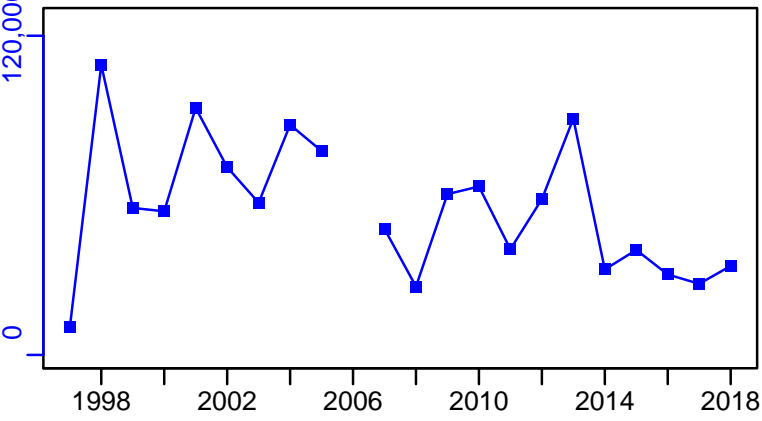
TC-MT, TL*, RecC* (1980-2014-WATSON)



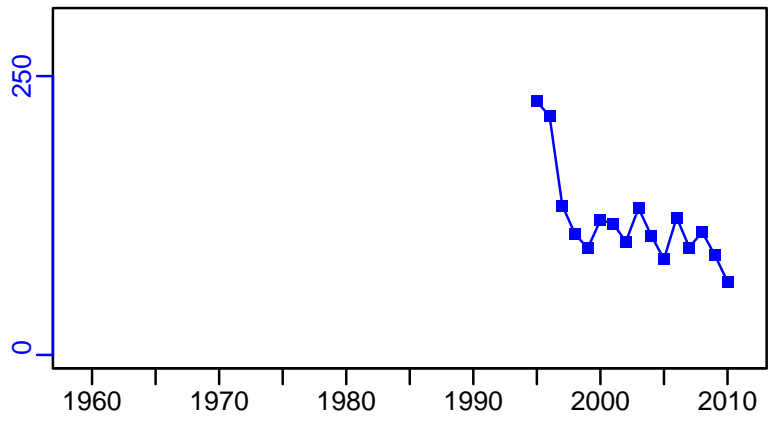
TAC-MT, Cpair-MT, Cadv* (1959-2018-ASHBROOK)



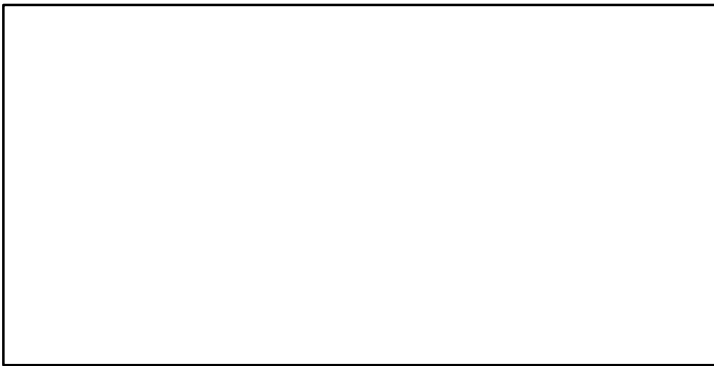
survB-MT (1959-2018-ASHBROOK)



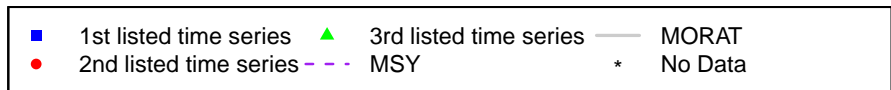
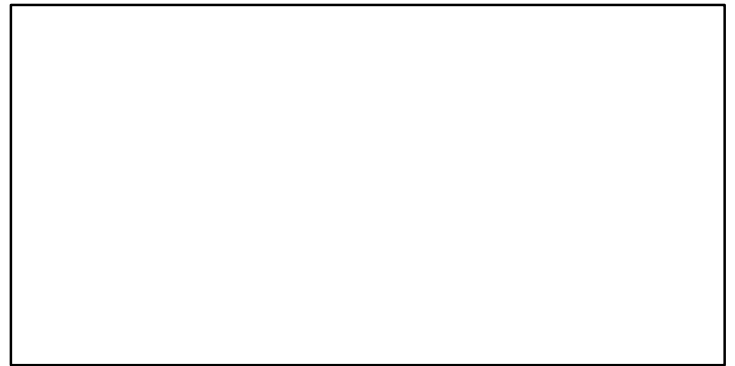
CPUE-fishperE03hooks (1959-2011-CHING)



EFFORT*



CdivMSY*



Atlantic cod Southern Gulf of St. Lawrence [COD4TVn]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-SG-COD4TVn-1917-2018-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	2015, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	80,000
Flim	-	-	-
ERlim	-	-	-

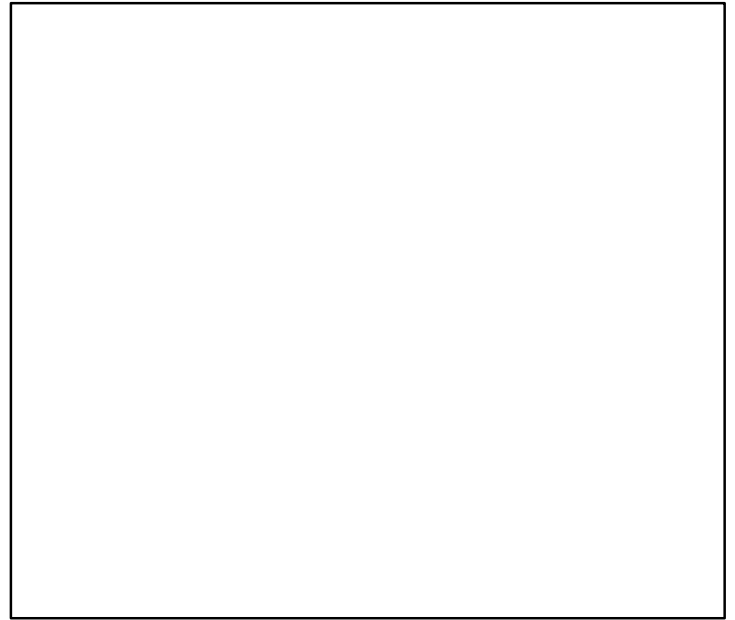
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	15,236	-	5+
SSB	SSB-MT	2018	18,322	-	-
TN	TN-E00	2018	17,877,070	-	5+
R	R-relative	2018	1.224	-	2
F	F-1/yr	2018	0.004	-	8-May
ER	ER-calc-ratio	2018	0.004	-	-
TC	TC-MT	2018	59		
TL	TL-MT	2015	114		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Southern Gulf of St. Lawrence [COD4TVn]

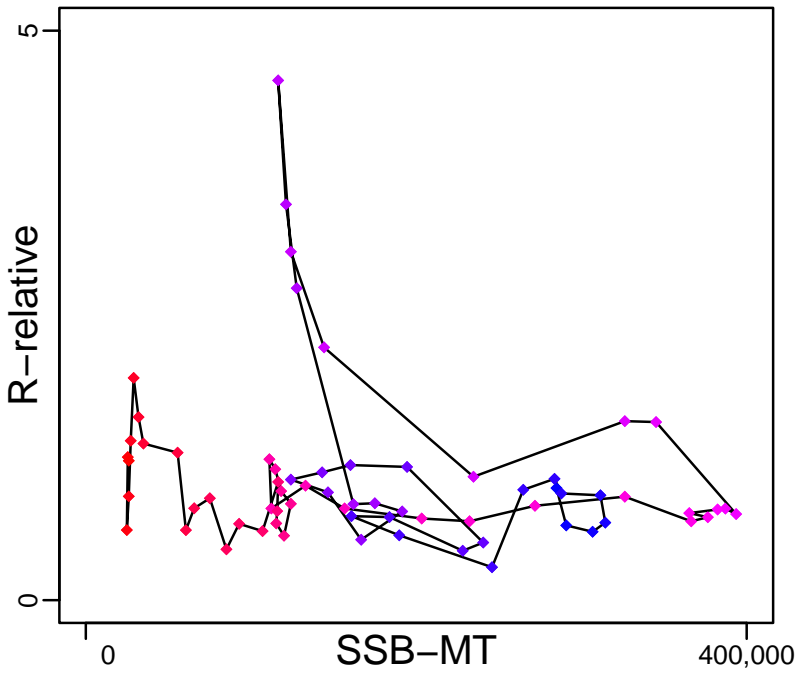
Kobe MSY*



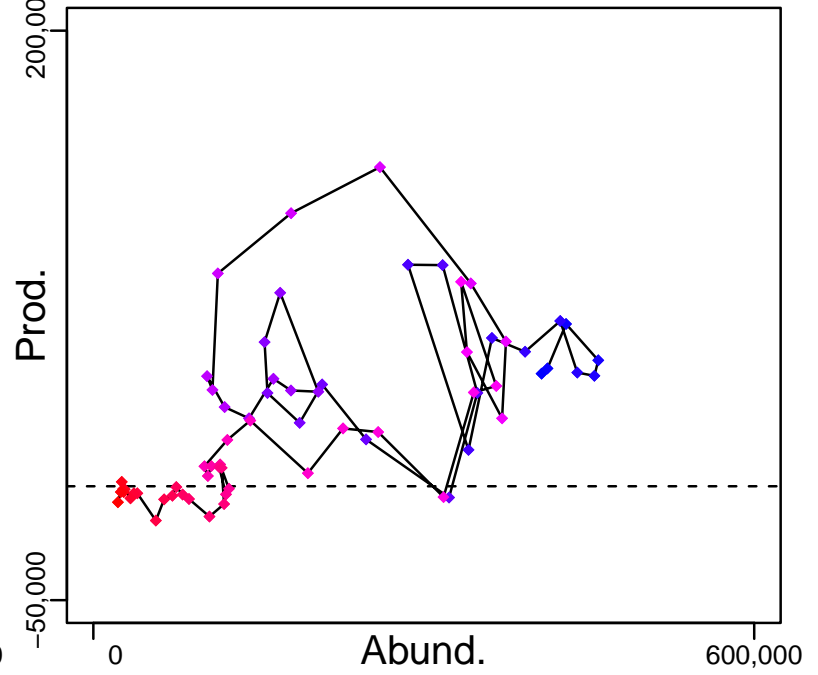
Kobe MGT*



Spawner Recruit (1917–2018–ASHBROOK)



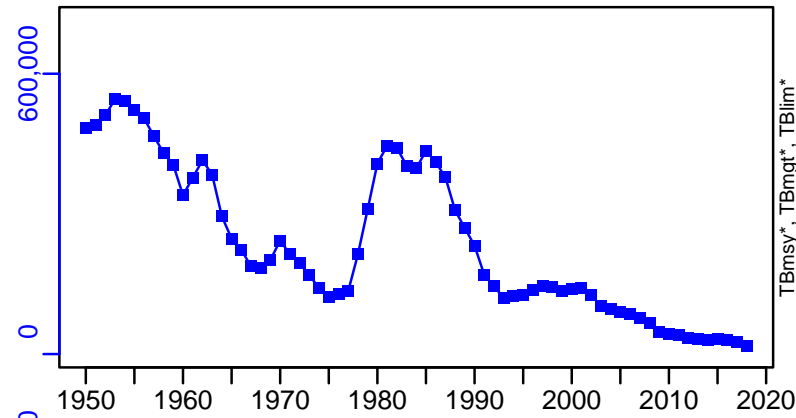
Production (1917–2018–ASHBROOK)



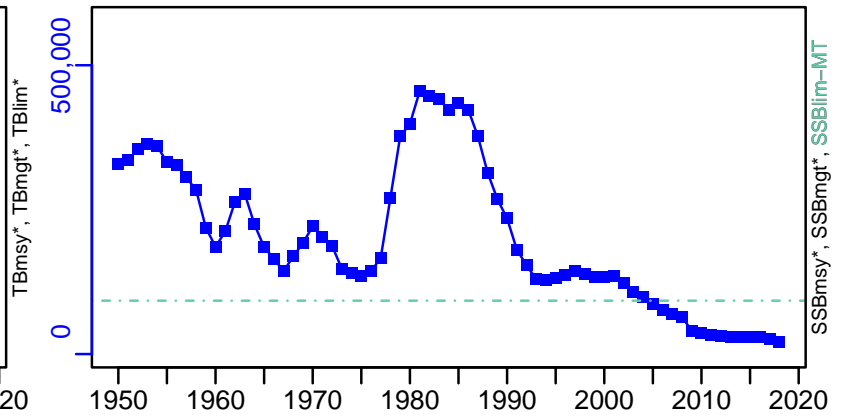
◆ Start Year ◆ End Year * No Data

Atlantic cod Southern Gulf of St. Lawrence [COD4TVn]

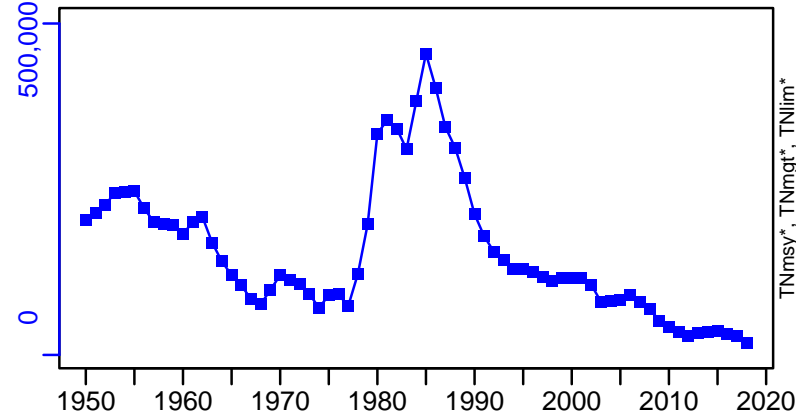
TB-MT (1917-2018-ASHBROOK)



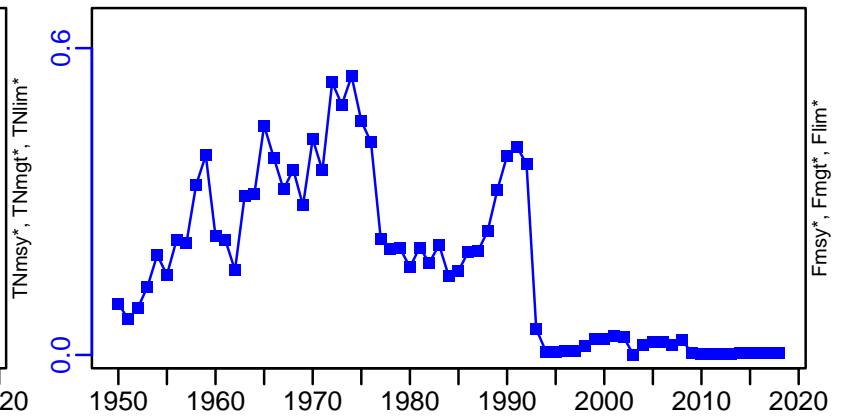
SSB-MT (1917-2018-ASHBROOK)



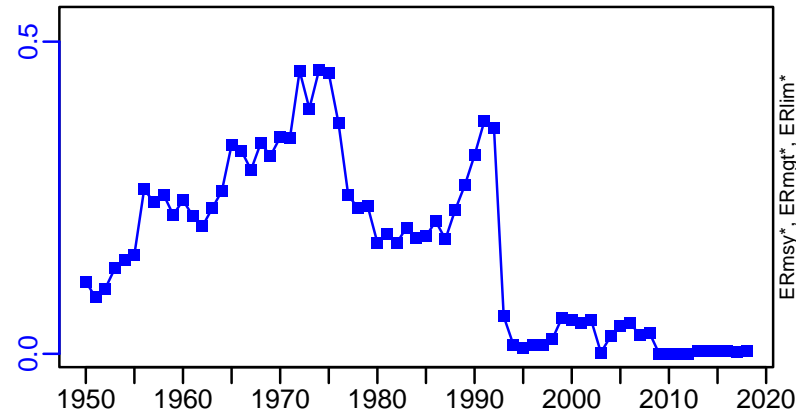
TN-E00 (1917-2018-ASHBROOK)



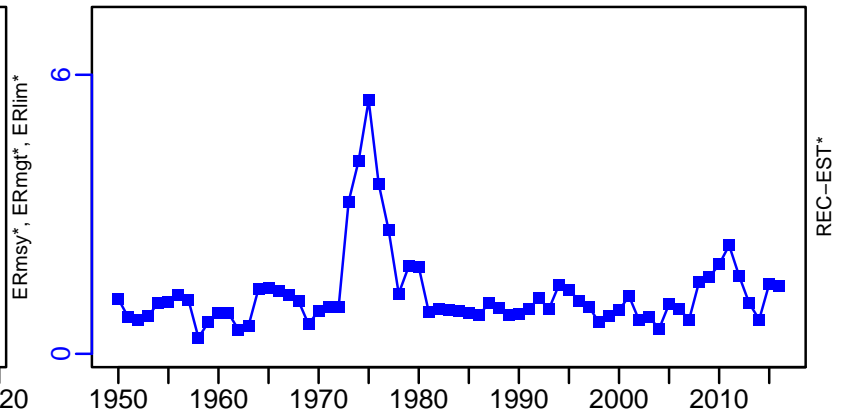
F-1/yr (1917-2018-ASHBROOK)



ER-calc-ratio (1917-2018-ASHBROOK)



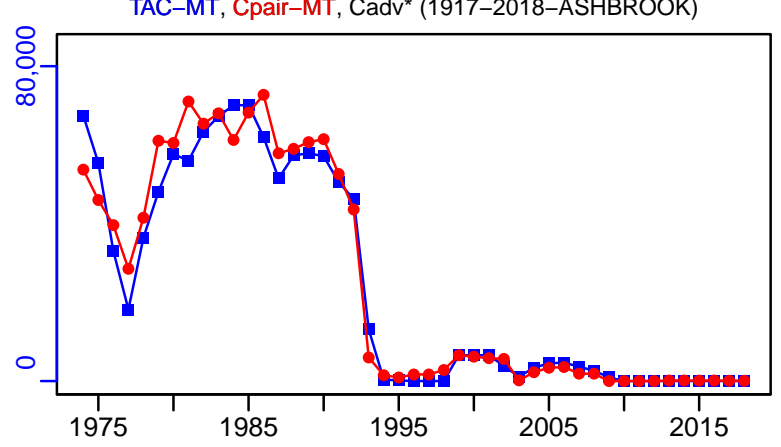
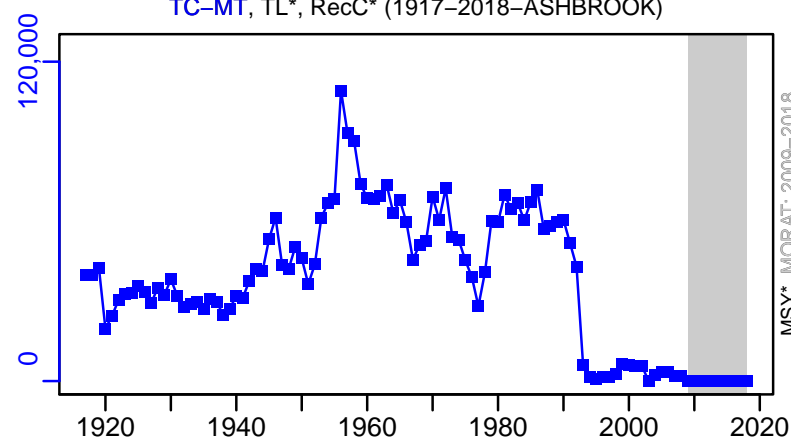
R-relative (1917-2018-ASHBROOK)



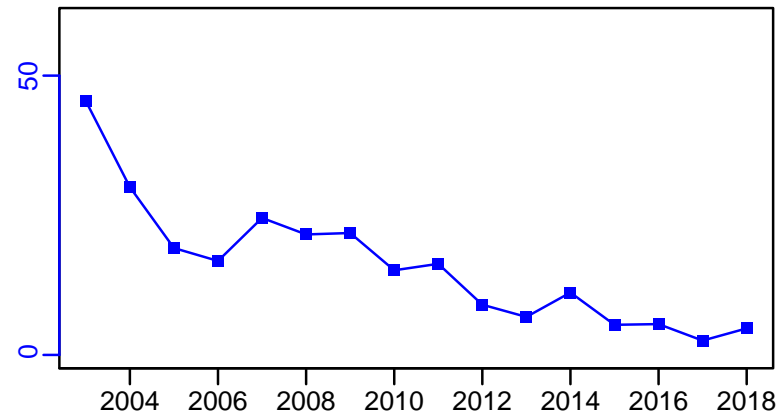
Atlantic cod Southern Gulf of St. Lawrence [COD4TVn]

TC-MT, TL*, RecC* (1917-2018-ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1917-2018-ASHBROOK)

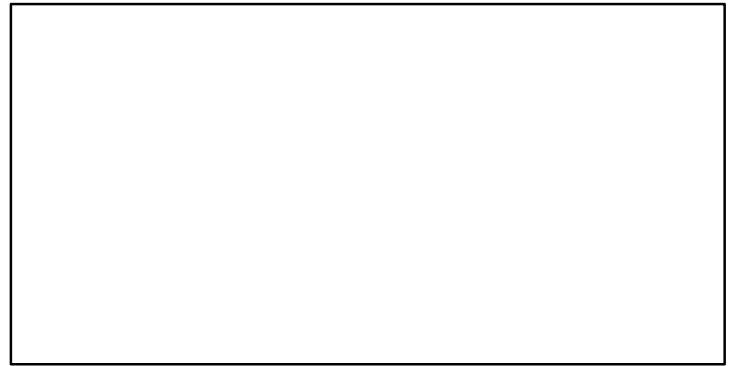


survB-index (1917-2018-ASHBROOK)

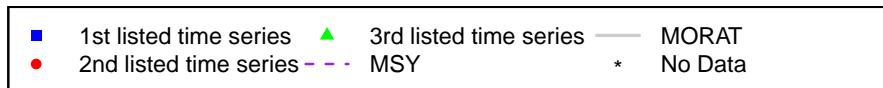


EFFORT*

CPUE*



CdivMSY*



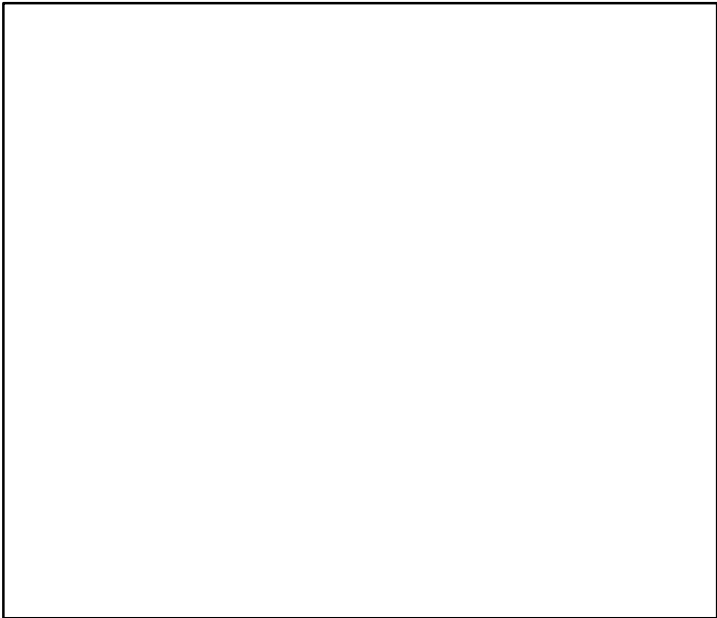
Atlantic cod Eastern Scotian Shelf [COD4VsW]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-MAR-COD4VsW-1958-2002-PREFONTAINE
Area	Eastern Scotian Shelf
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2002

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	2002	4720	-	4+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2002	0.008	-	-
TC	TC-MT	2002	83		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

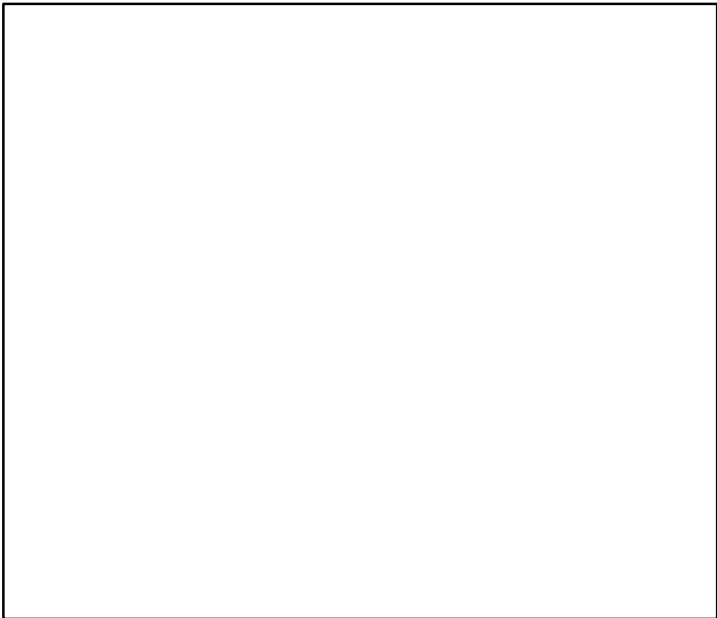
Kobe MSY*



Kobe MGT*



Spawner Recruit*



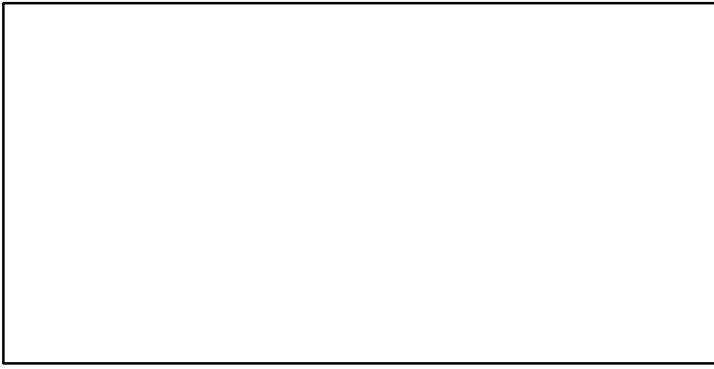
Production*



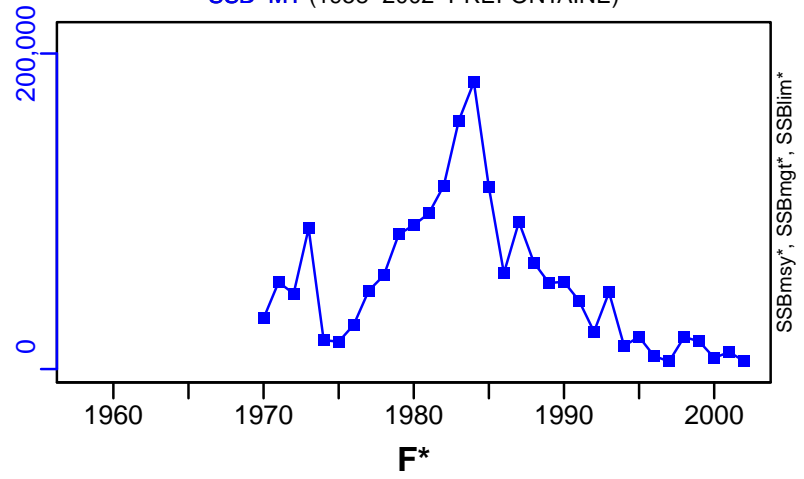
◆ Start Year ◆ End Year * No Data

Atlantic cod Eastern Scotian Shelf [COD4VsW]

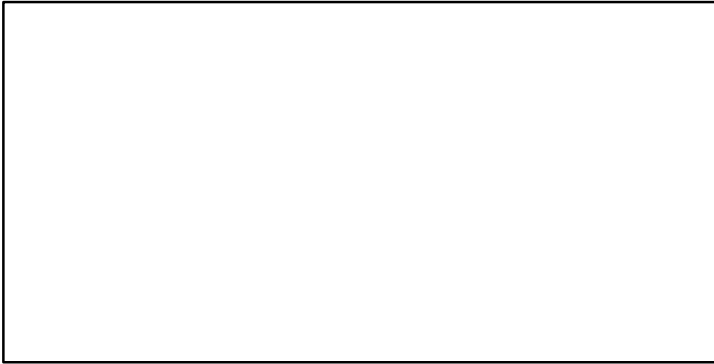
TB*



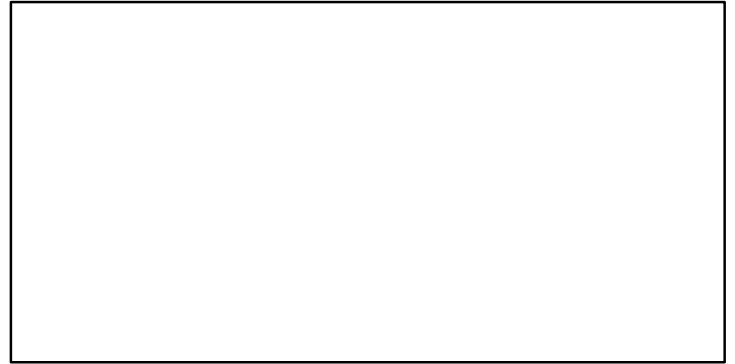
SSB-MT (1958–2002–PREFONTAINE)



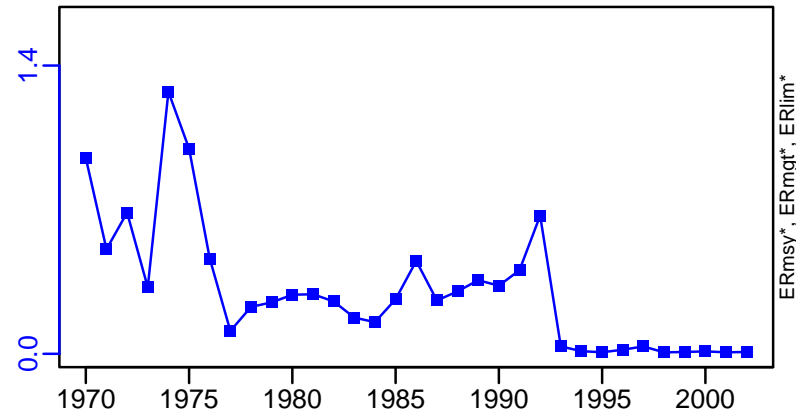
TN *



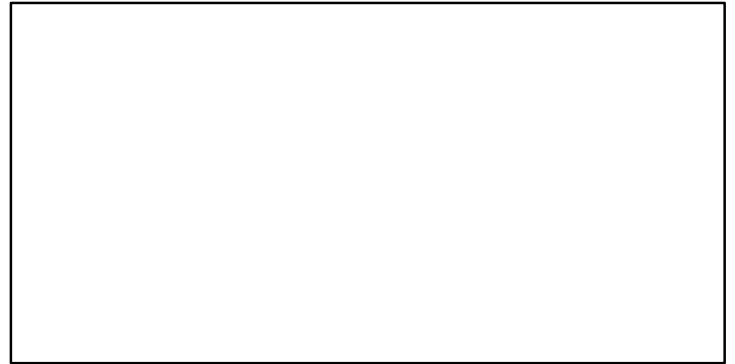
F*



ER-ratio (1958–2002–PREFONTAINE)

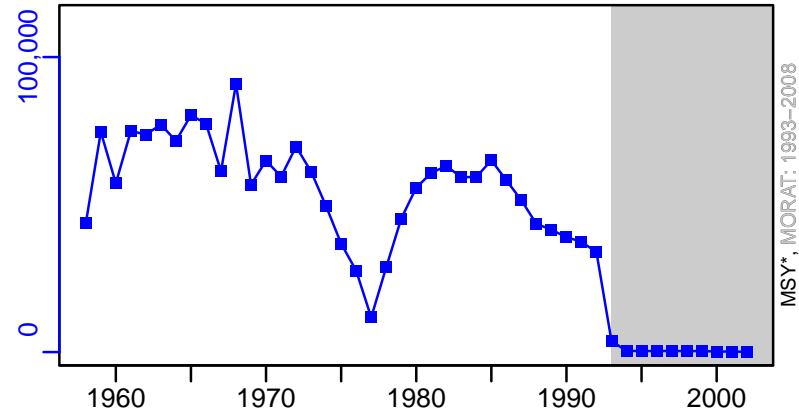


Recruits*

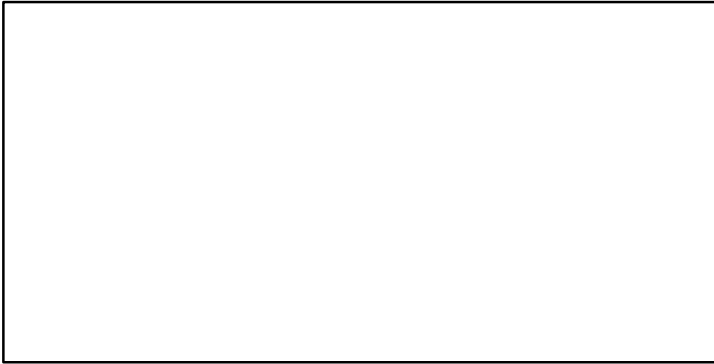


Atlantic cod Eastern Scotian Shelf [COD4VsW]

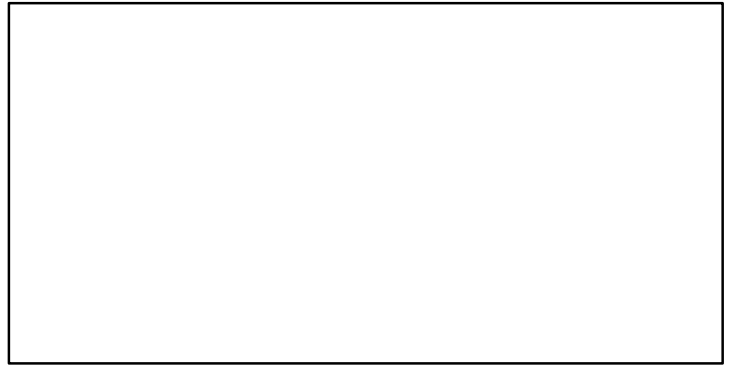
TC-MT, TL*, RecC* (1958-2002-PREFONTAINE)



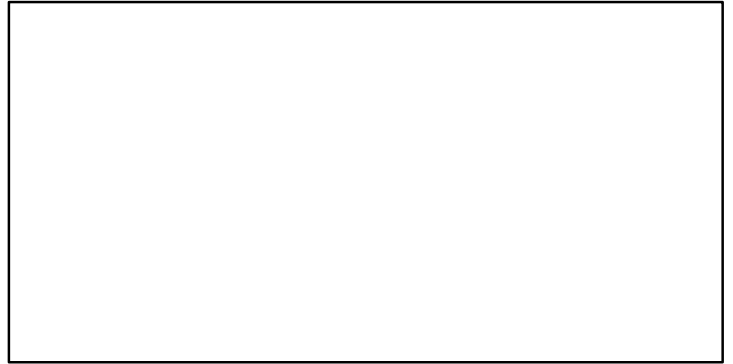
survB*



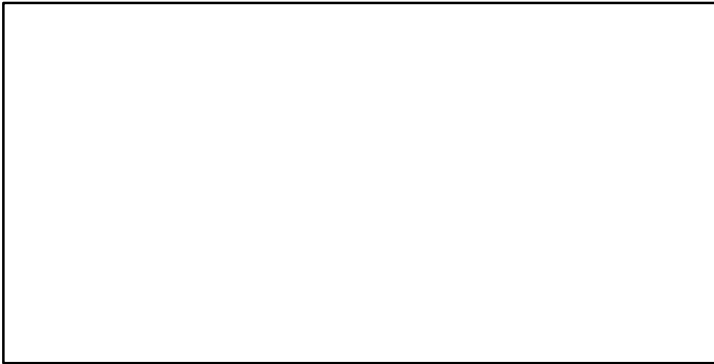
TAC*, Cpair*, Cadv*



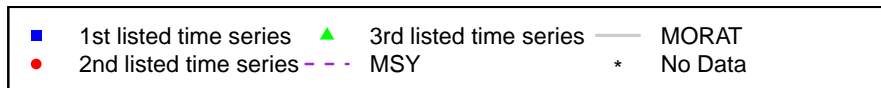
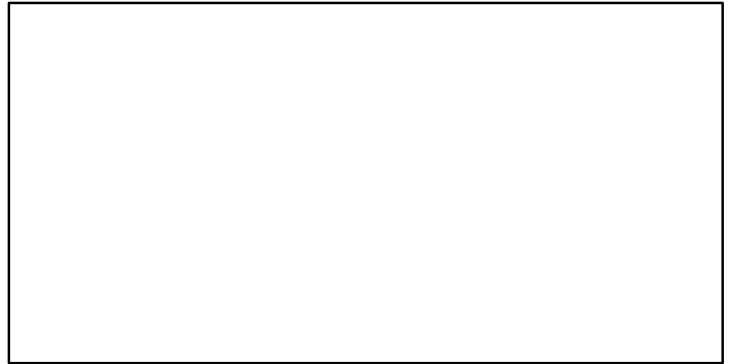
CPUE*



EFFORT*



CdivMSY*



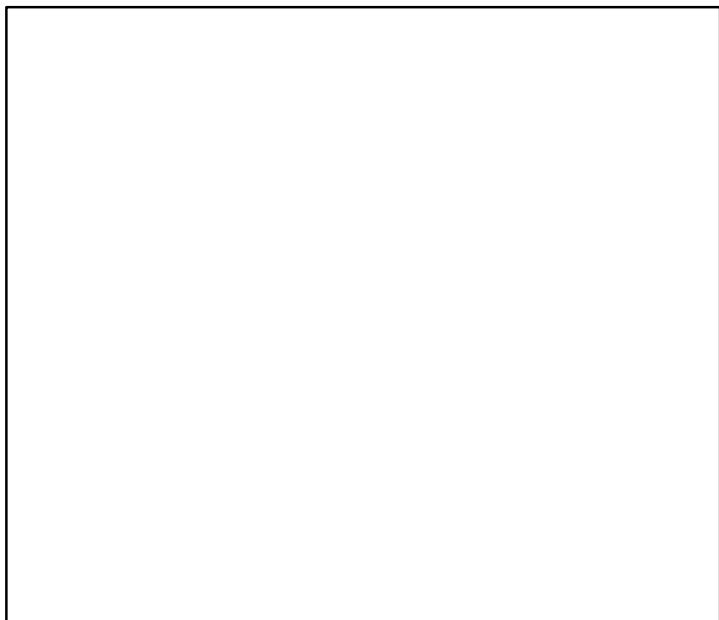
Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	DFO-MAR-COD4X5Yb-1960-2018-ASHBROOK
Area	Western Scotian Shelf, Bay of Fundy and Gulf of Maine
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2009, 2018

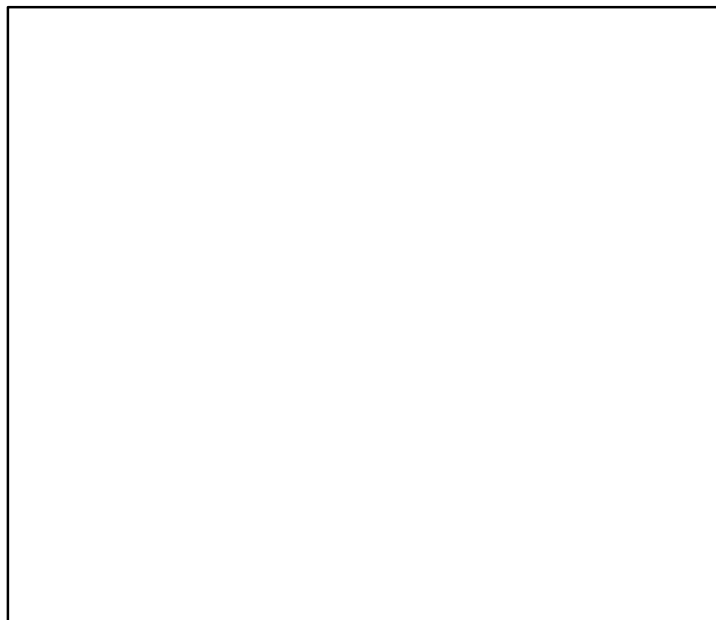
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	48,000
Fmgt	Fmgt-1/yr	2009	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2018	1.57
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	22,193
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	13,588	-	1-7+
SSB	SSB-MT	2018	12,491	-	4+
TN	TN-E00	2018	8,028,000	-	1-7+
R	-	-	-	-	-
F	F-1/yr	2018	0.088	-	7-Apr
ER	ER-calc-ratio	2018	0.055	-	-
TC	-	-	-		
TL	TL-MT	2018	746		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.26		
F/Fmgt	F-1/yr/Fmgt-1/yr	2009	1.5		
ER/ERmgt	-	-	-		

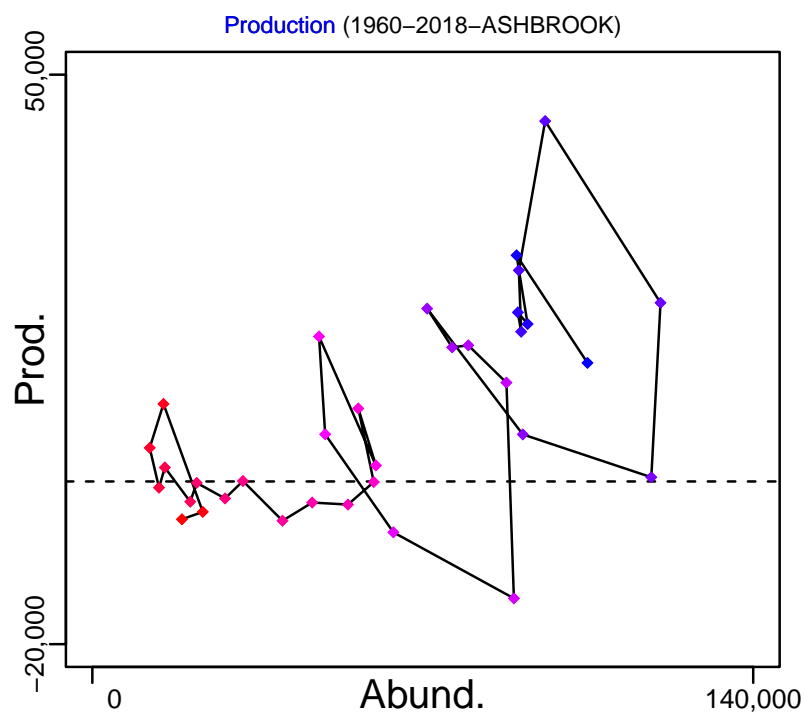
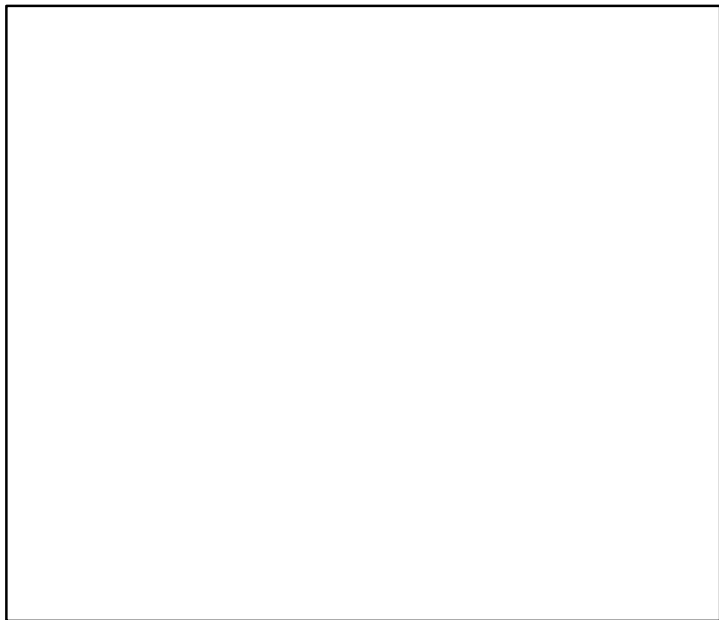
Kobe MSY*



Kobe MGT*



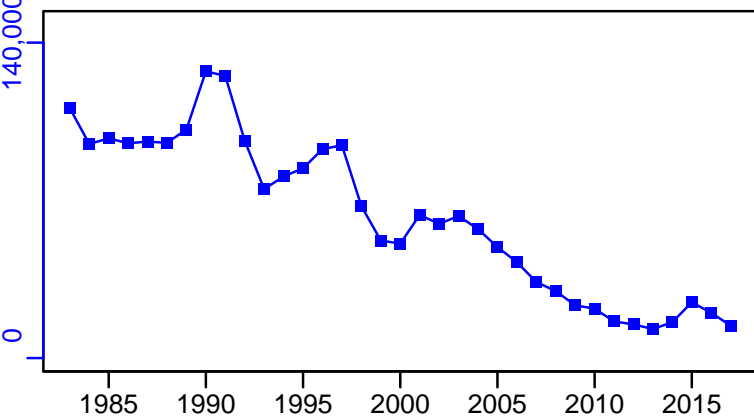
Spawner Recruit*



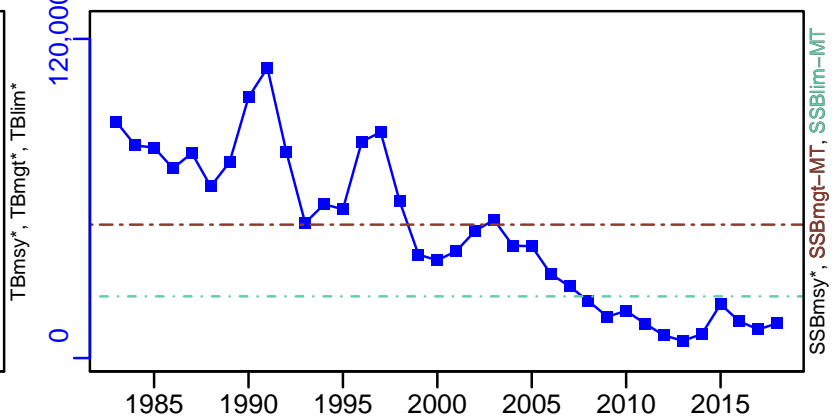
◆ Start Year ◆ End Year * No Data

Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]

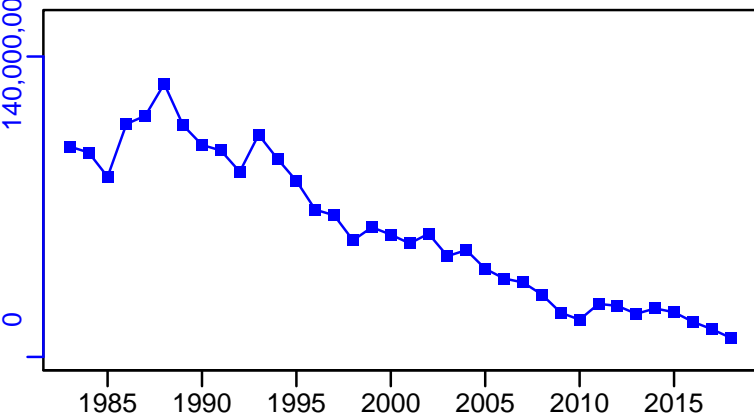
TB-MT (1960–2018–ASHBROOK)



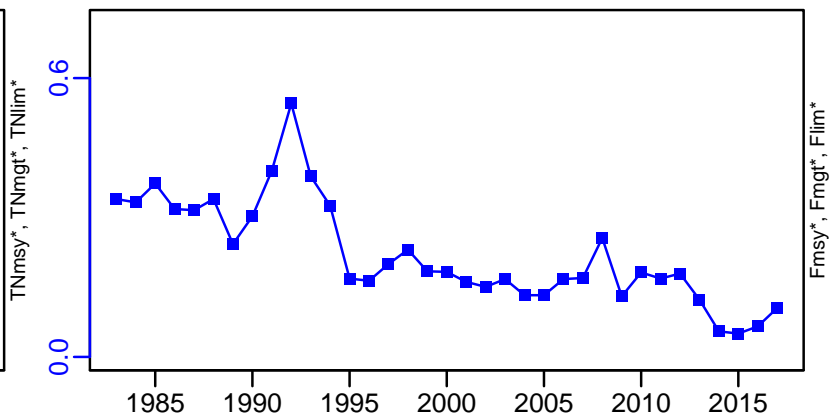
SSB-MT (1960–2018–ASHBROOK)



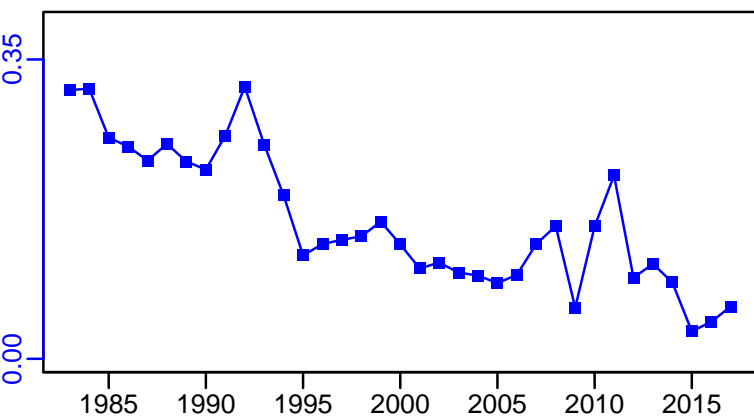
TN-E00 (1960–2018–ASHBROOK)



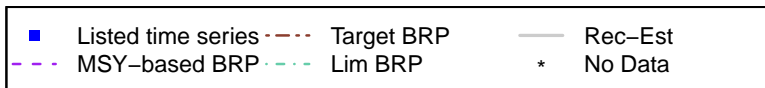
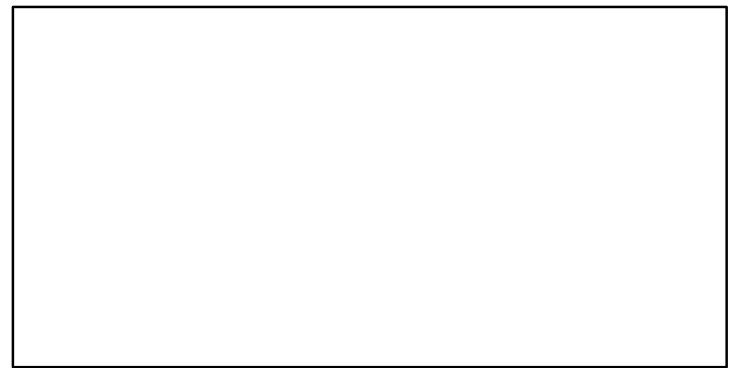
F-1/yr (1960–2018–ASHBROOK)



ER-calc-ratio (1960–2018–ASHBROOK)



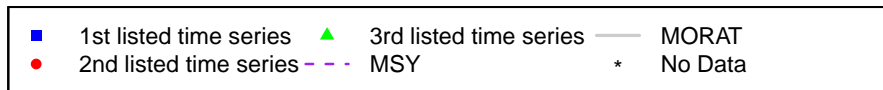
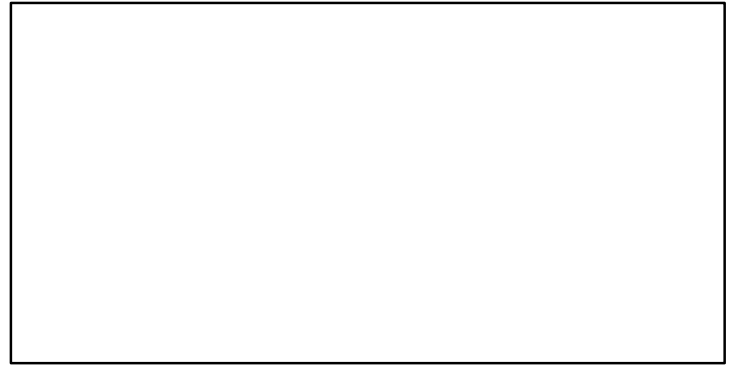
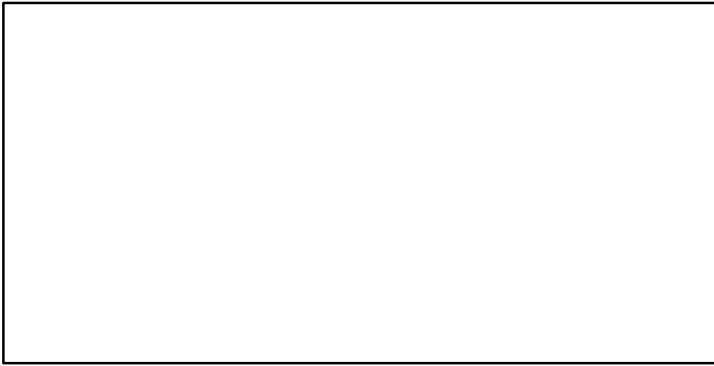
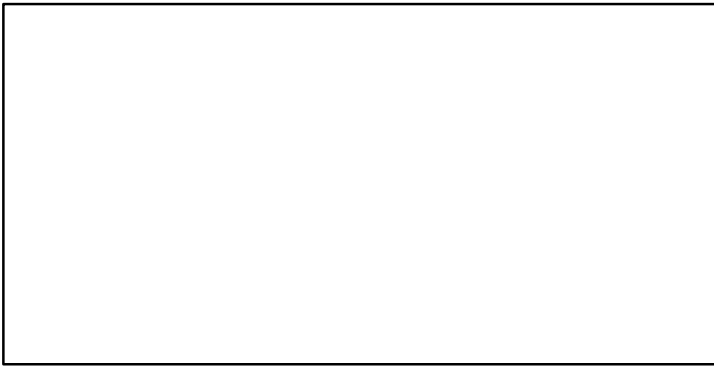
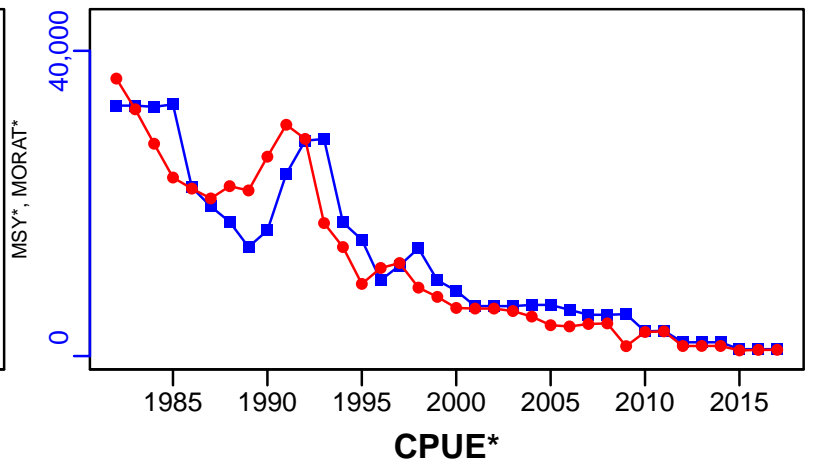
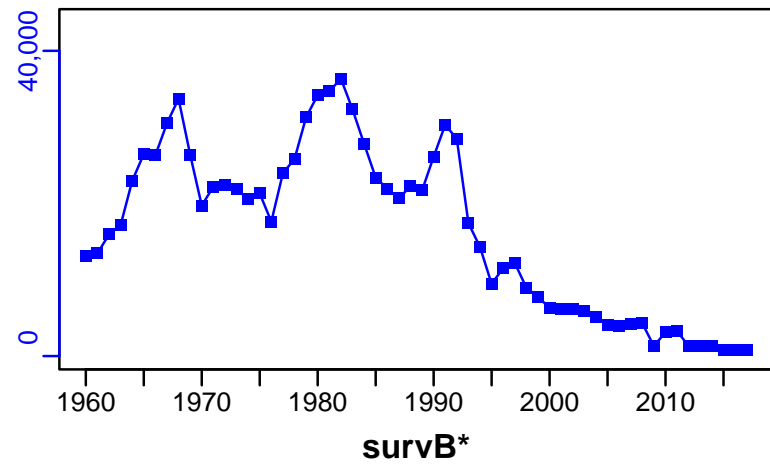
Recruits*



Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]

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

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

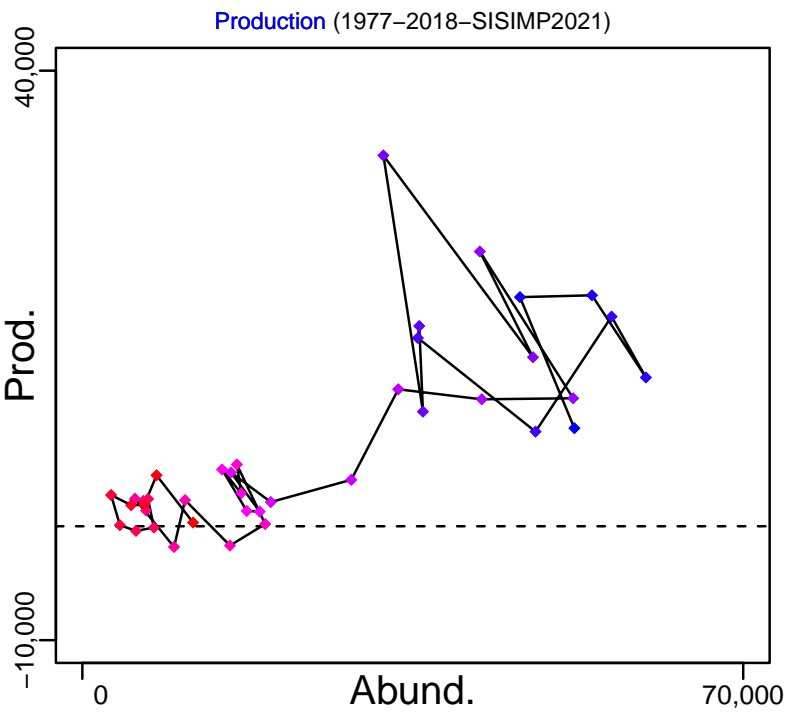
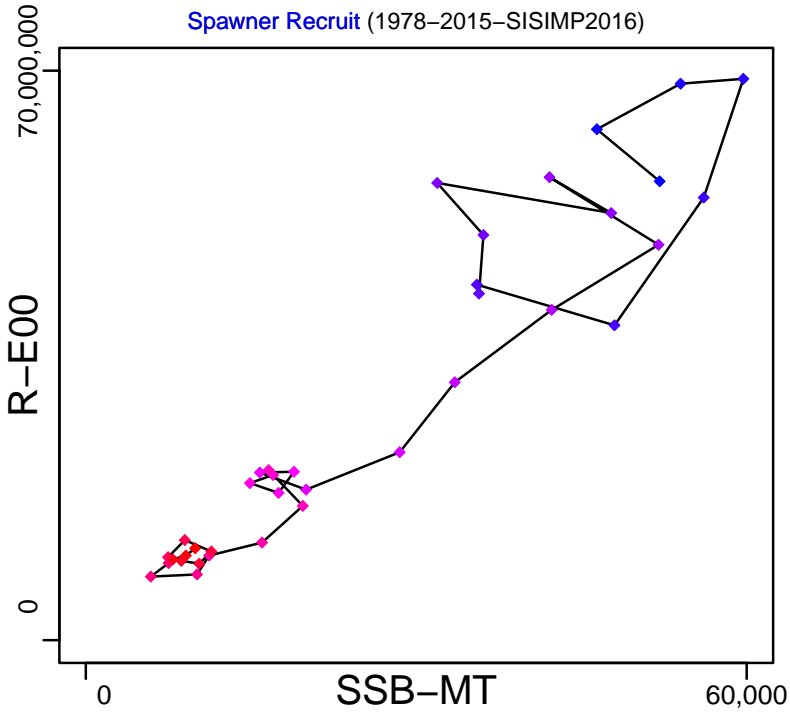
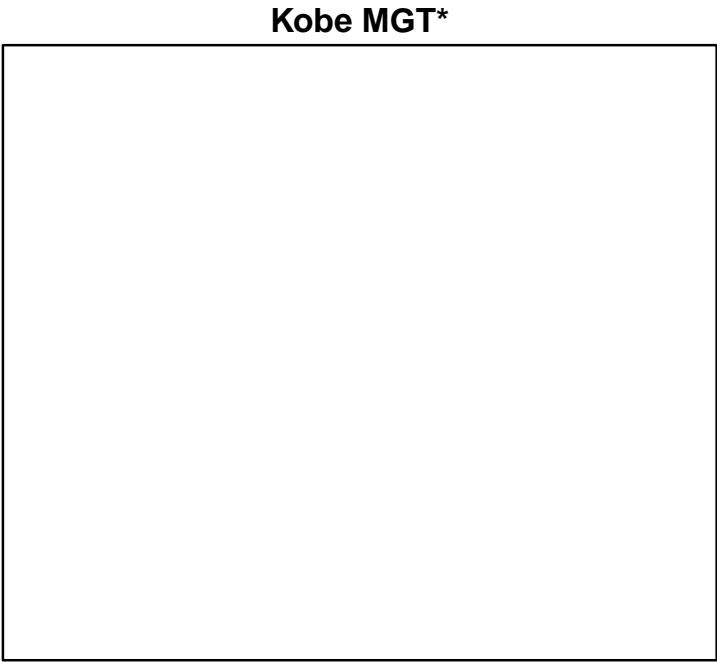
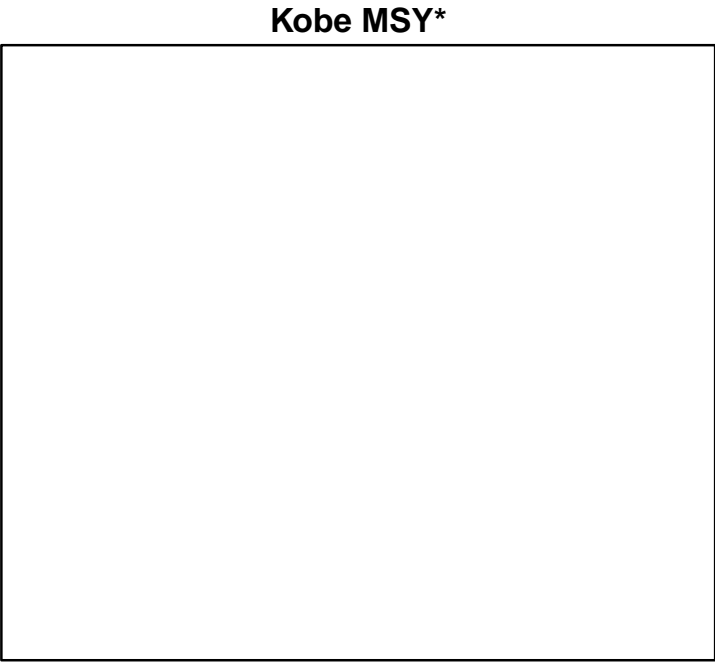


Atlantic cod NAFO 5Zjm [COD5Zjm]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	TRAC-COD5Zjm-1978-2020-SISIMP2021-2
Area	NAFO 5Zjm
Management Authority	Transboundary Resource Assessment Committee (USA and Canada)
Assessor	Transboundary Resource Assessment Committee (USA and Canada)
Asmts in RAM	2017, 2018, 2010, 2015, 2018, 2019, 2020

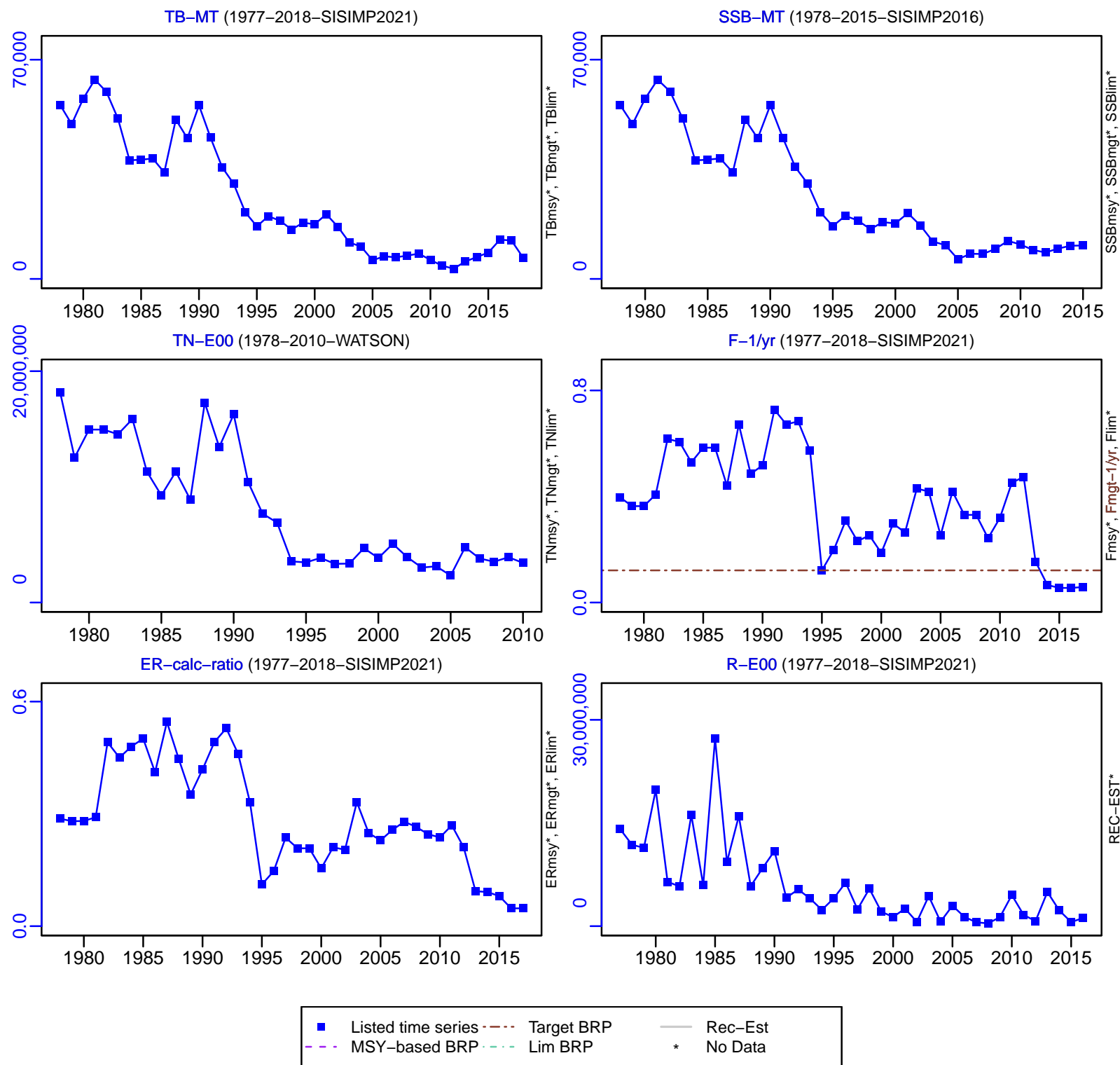
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.11
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2018	0.11
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2010	21,000
Flim	Flim-1/yr	2017	0.11
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	6402	-	-
SSB	SSB-MT	2015	10,000	-	3+
TN	TN-E00	2010	3,390,000	-	3+
R	R-E00	2018	1,040,000	-	1
F	F-1/yr	2018	0.053	-	-
ER	ER-calc-ratio	2018	0.046	-	-
TC	TC-MT	2020	67		
TL	TL-MT	2010	1860		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.455		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.482		
ER/ERmgt	-	-	-		



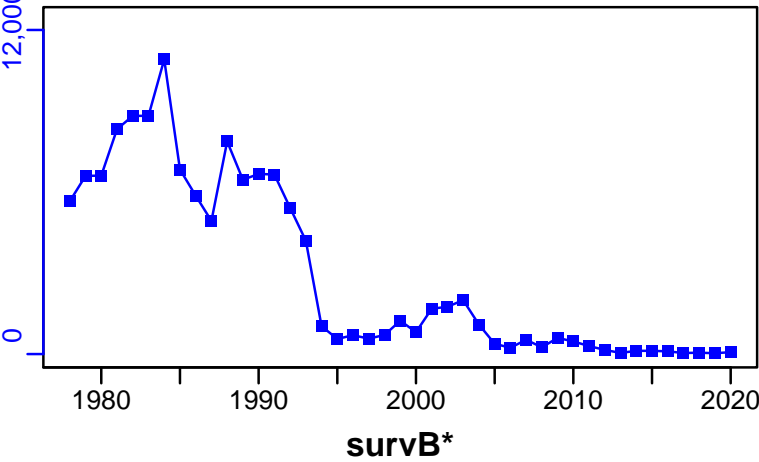
◆ Start Year ◆ End Year * No Data

Atlantic cod NAFO 5Zjm [COD5Zjm]



Atlantic cod NAFO 5Zjm [COD5Zjm]

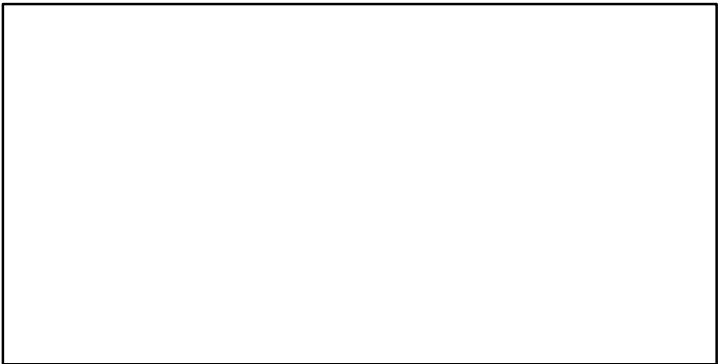
TC-MT, TL*, RecC* (1978-2020-SISIMP2021-2)



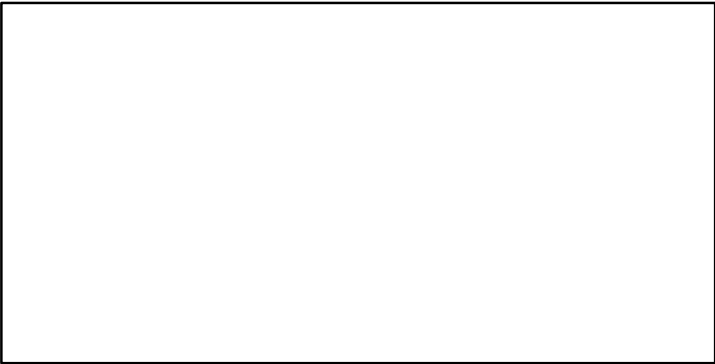
TAC*, Cpair*, Cadv*



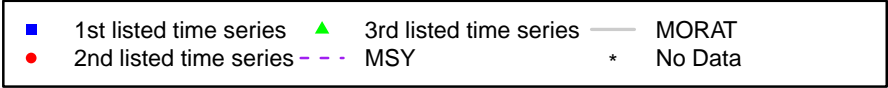
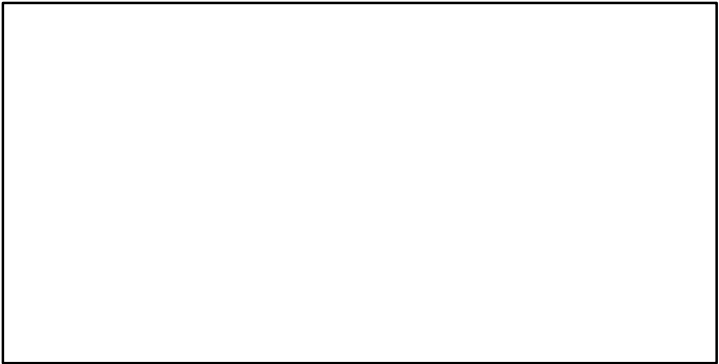
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Western Baltic [CODBA2224]

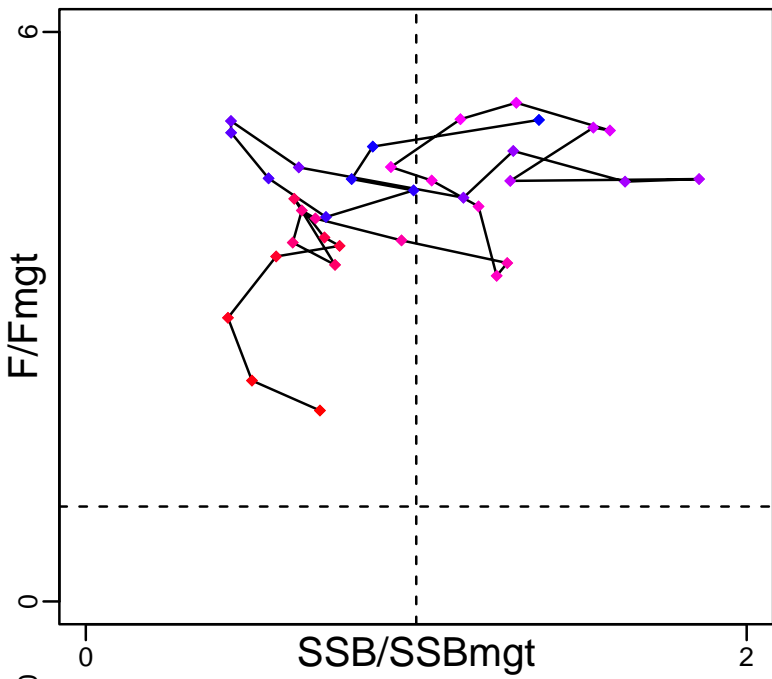
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2224-1985-2021-ICESIMP2021-2
Area	Western Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2013, 2014, 2019, 2020, 2021, 2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	21,876
Fmgt	Fmgt-1/yr	2021	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	23,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	15,100
Flim	Flim-1/yr	2021	1.23
ERlim	-	-	-

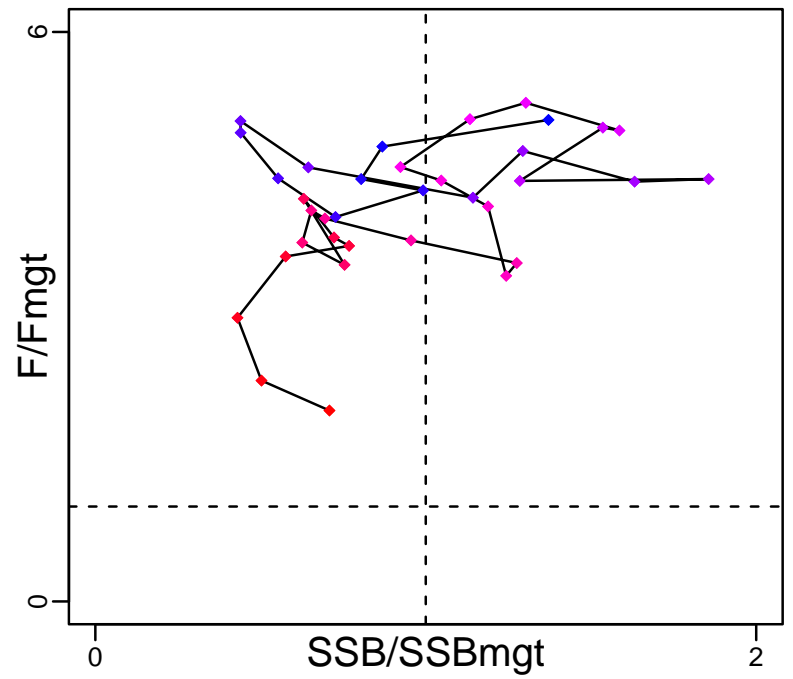
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	22,710	-	-
SSB	SSB-MT	2021	7800	-	-
TN	-	-	-	-	-
R	R-E00	2021	17,400,000	-	1
F	F-1/yr	2021	0.882	-	-
ER	ER-calc-ratio	2019	0.29	-	-
TC	TC-MT	2019	5312		
TL	TL-MT	2021	2900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	3.392		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.914		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	3.392		
ER/ERmgt	-	-	-		

Atlantic cod Western Baltic [CODBA2224]

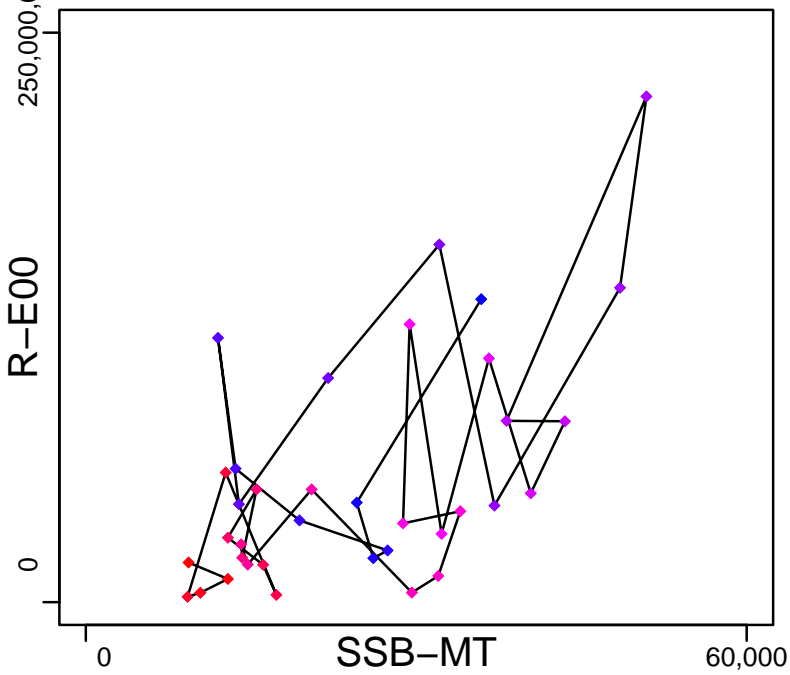
Kobe MSYpref (1985–2020–ICESIMP2021–2)



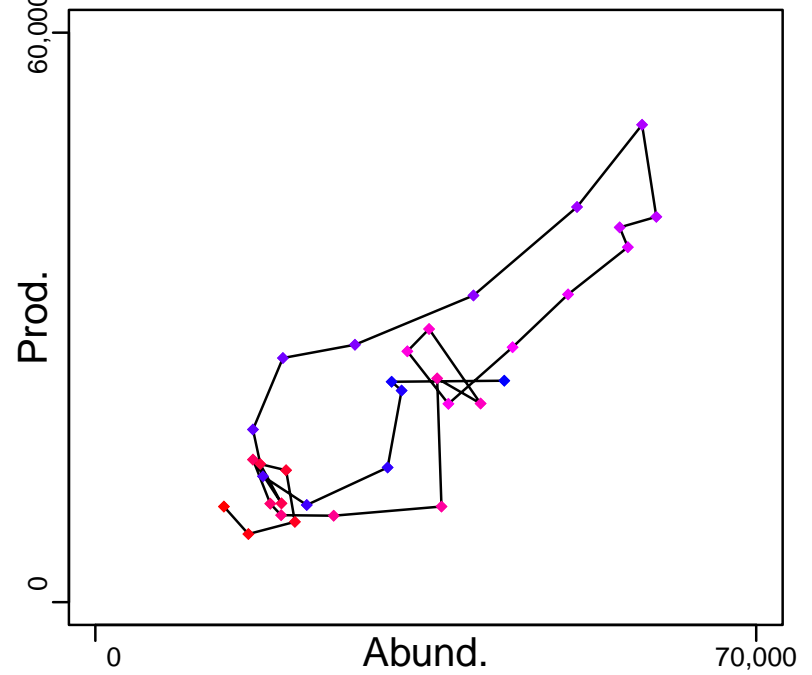
Kobe MGTpref (1985–2020–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



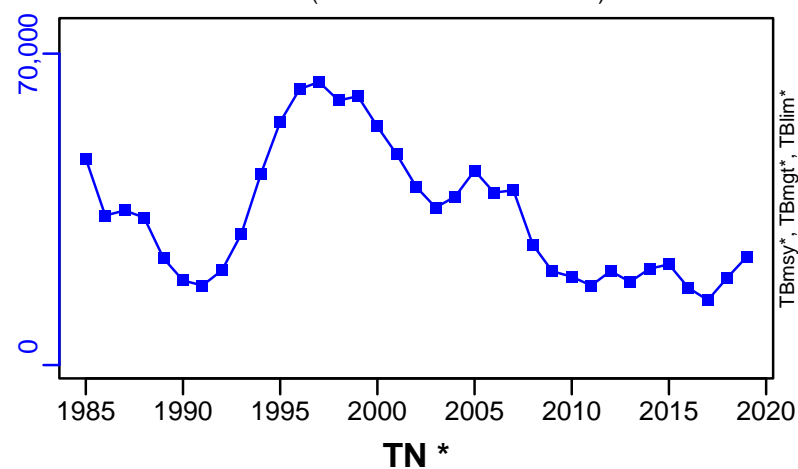
Production (1984–2019–ICESIMP2021)



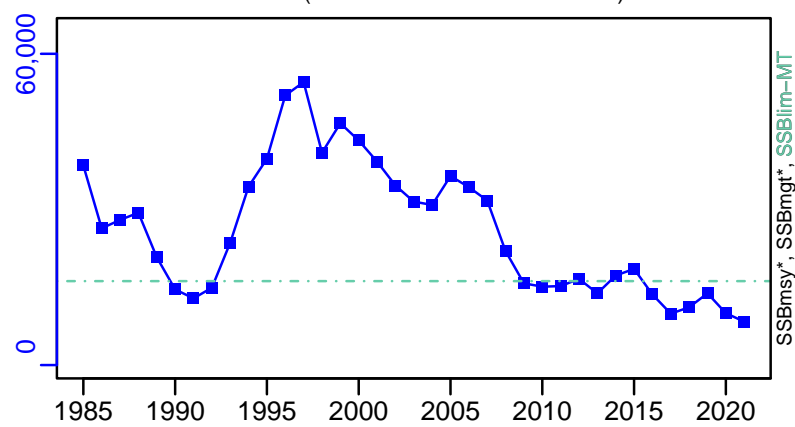
◆ Start Year ◆ End Year * No Data

Atlantic cod Western Baltic [CODBA2224]

TB-MT (1984–2019–ICESIMP2021)



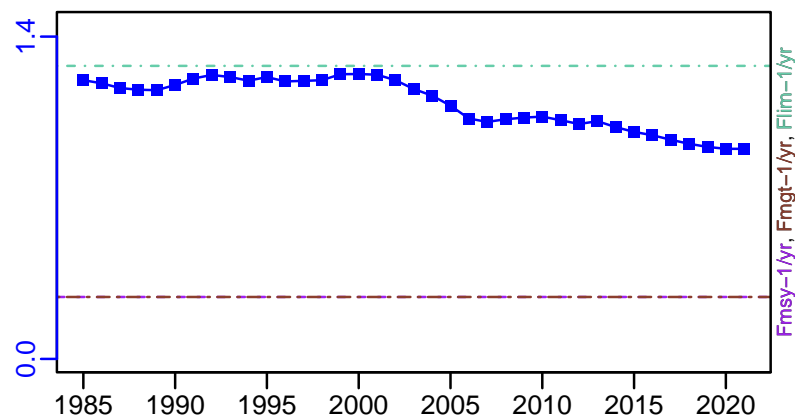
SSB-MT (1985–2021–ICESIMP2021–2)



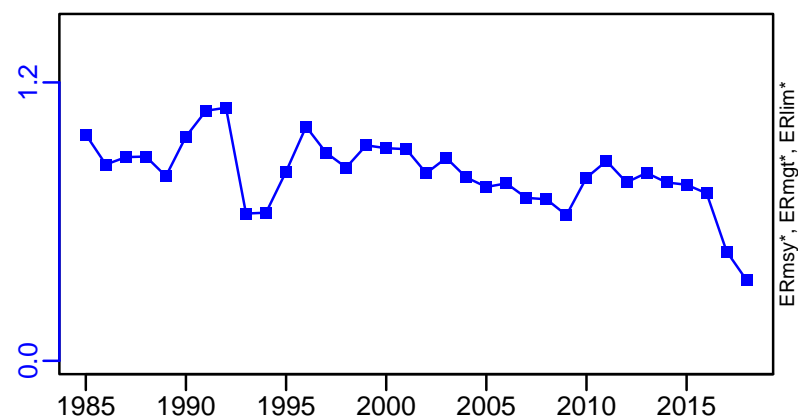
TN *



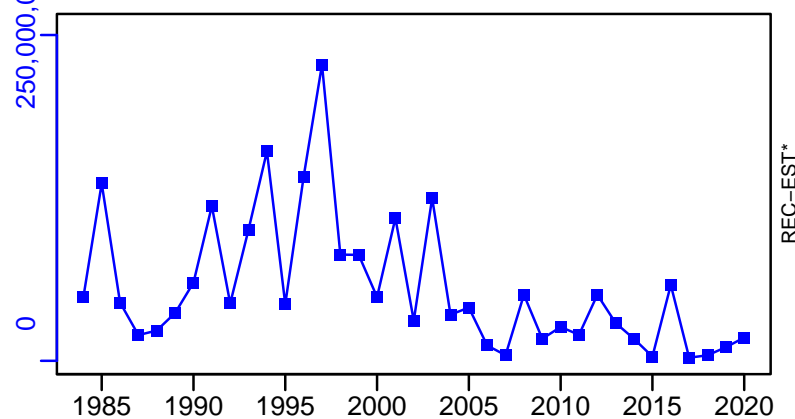
F-1/yr (1985–2021–ICESIMP2021–2)



ER-calc-ratio (1984–2019–ICESIMP2021)

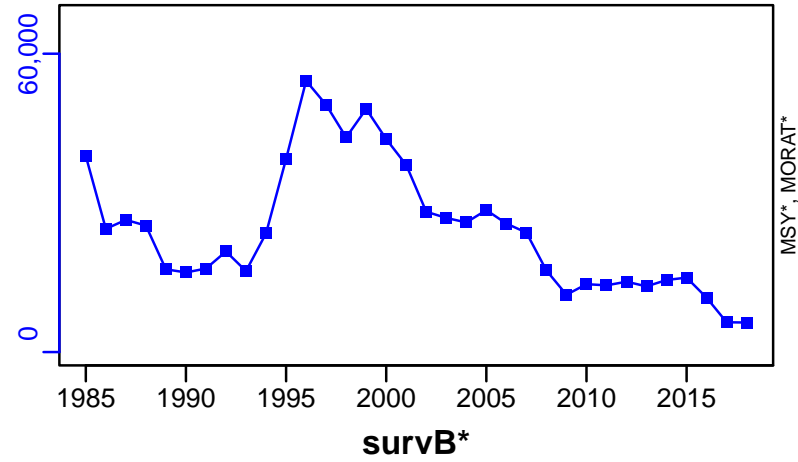


R-E00 (1985–2021–ICESIMP2021–2)

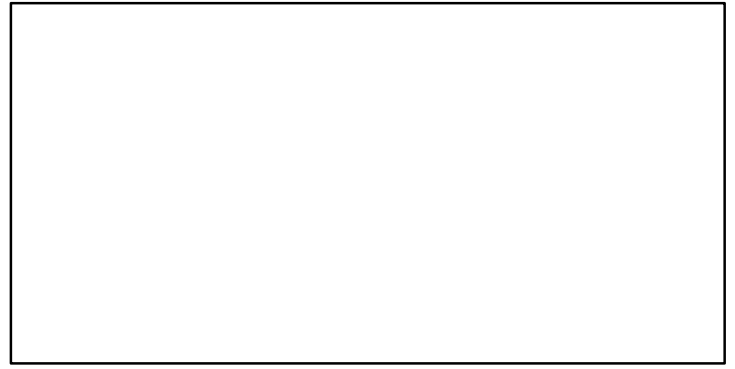


Atlantic cod Western Baltic [CODBA2224]

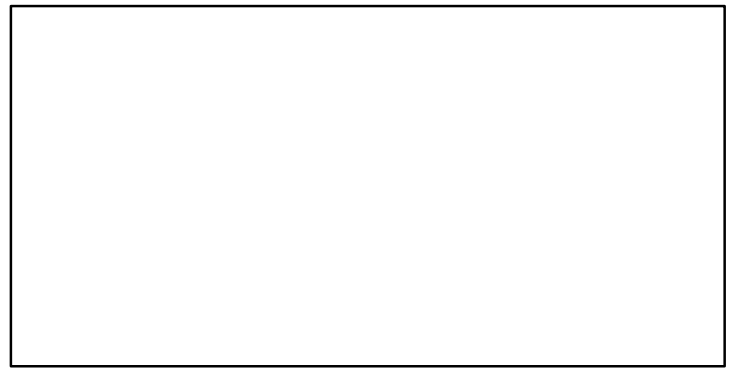
TC-MT, TL*, RecC* (1984–2019–ICESIMP2021)



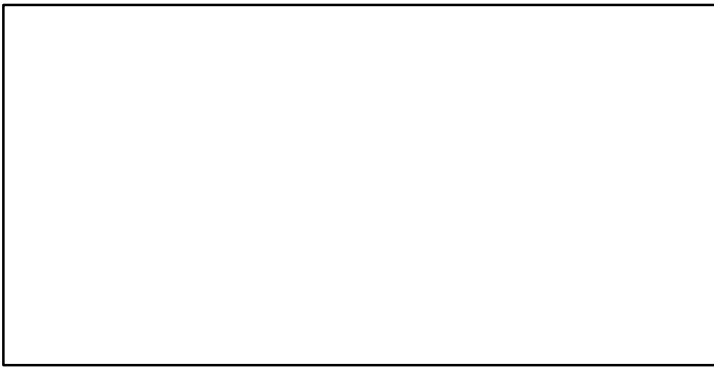
TAC*, Cpair*, Cadv*



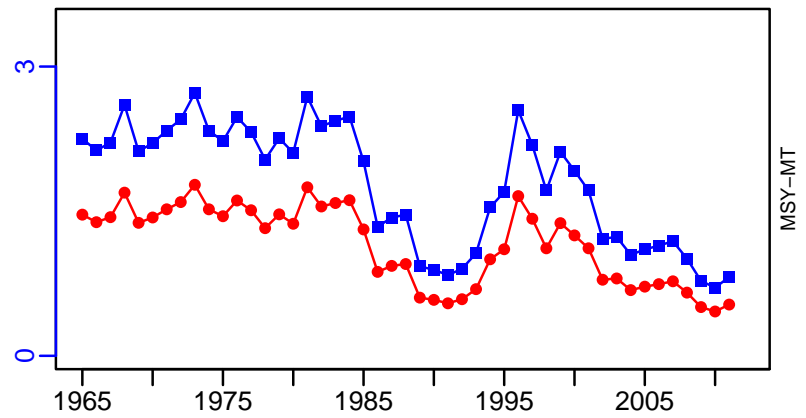
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1965–2012–CHING)



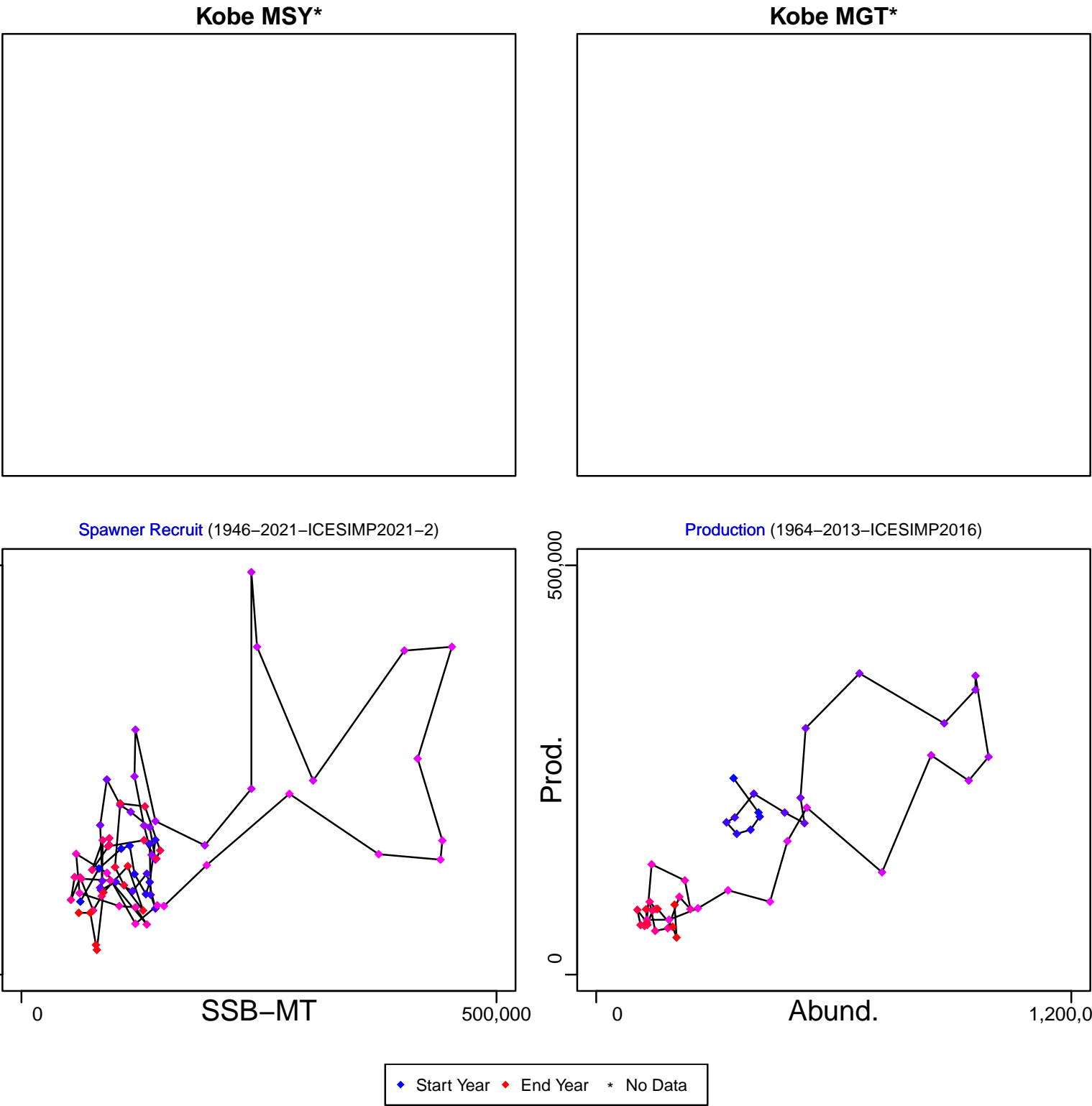
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

Atlantic cod Eastern Baltic [CODBA2532]

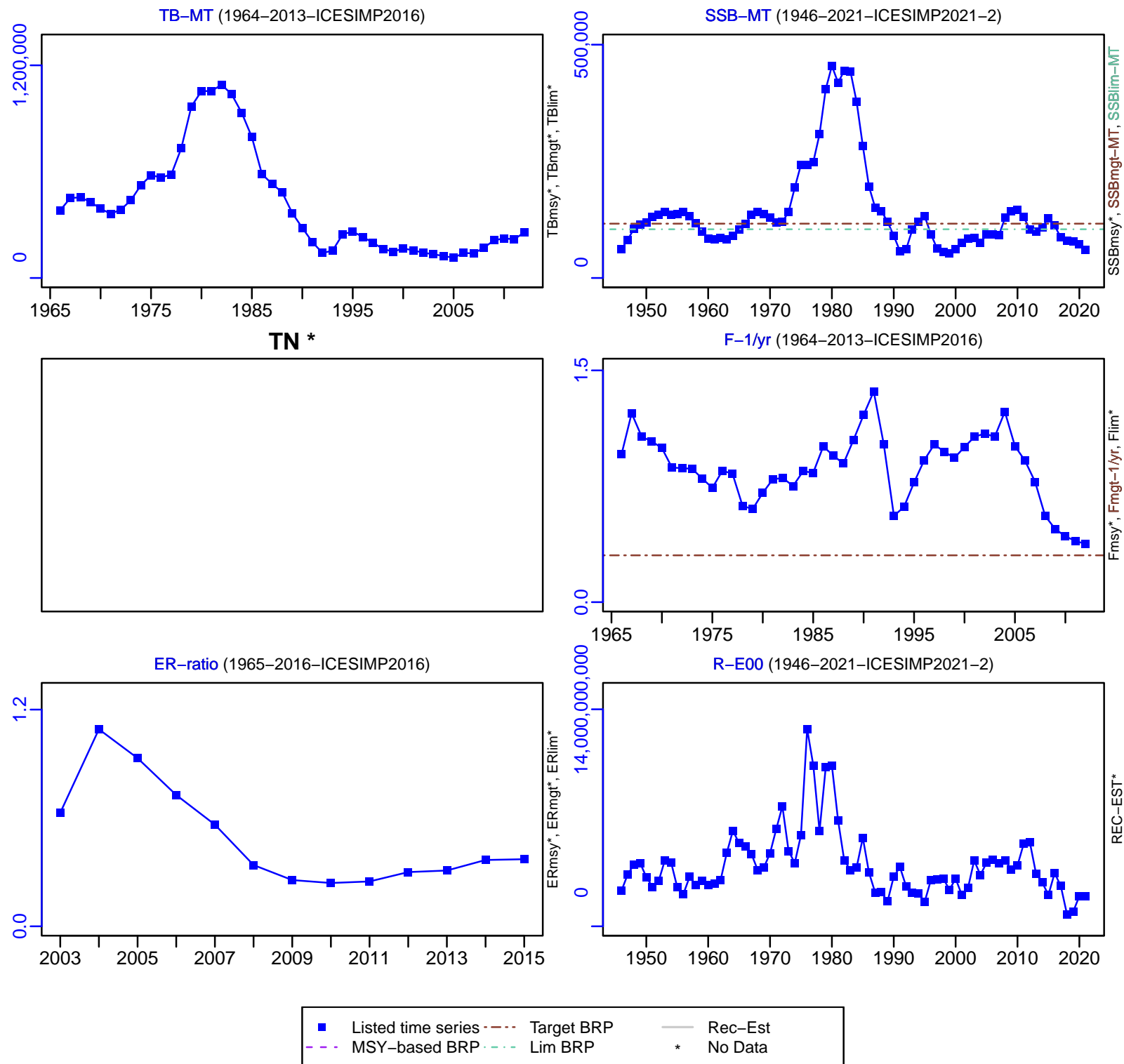
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2532-1946-2021-ICESIMP2021-2
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2019, 2020, 2021, 2013, 2016, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	116,000
Fmgt	Fmgt-1/yr	2013	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	104,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	233,000	Both	-
SSB	SSB-MT	2021	60,400	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.81×10^9	-	0
F	F-1/yr	2021	0.032	-	-
ER	ER-ratio	2016	0.344	-	-
TC	TC-MT	2021	2420		
TL	TL-MT	2021	2310		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.857		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.521		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	1.243		
ER/ERmgt	-	-	-		

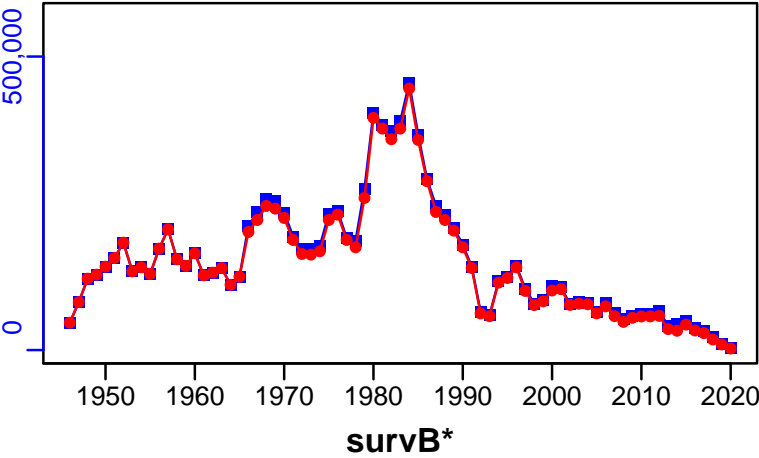


Atlantic cod Eastern Baltic [CODBA2532]

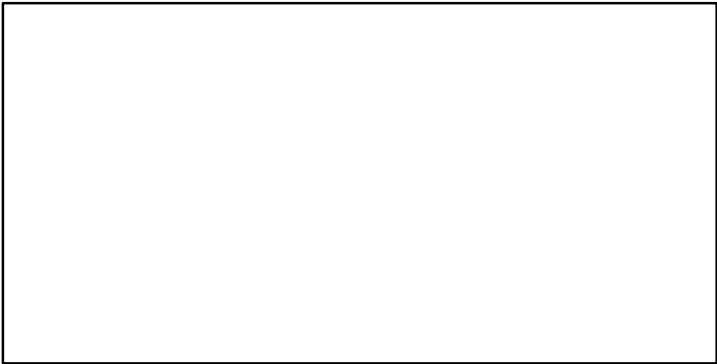


Atlantic cod Eastern Baltic [CODBA2532]

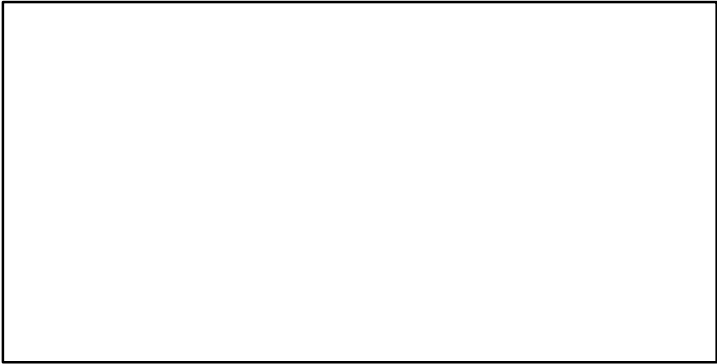
TC-MT, TL-MT, RecC* (1946-2021-ICESIMP2021-2)



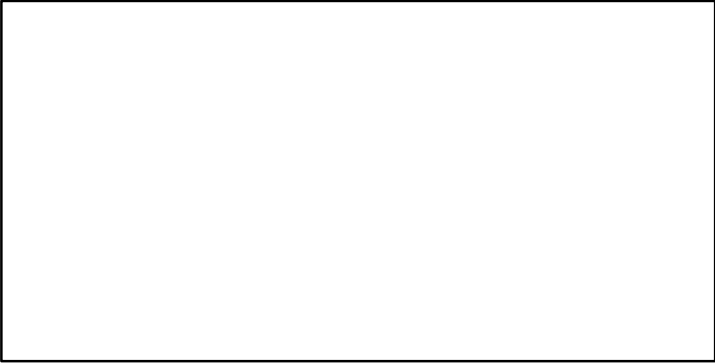
TAC*, Cpair*, Cadv*



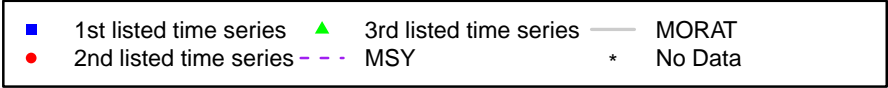
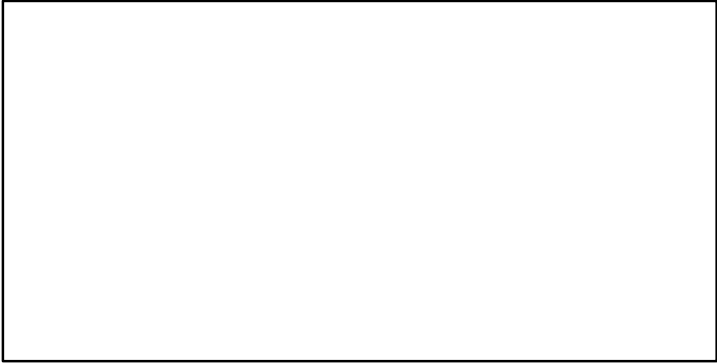
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Faroe Bank [CODFABNK]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-CODFABNK-1965-2018-ICESIMP2021
Area	Faroe Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016, 2018

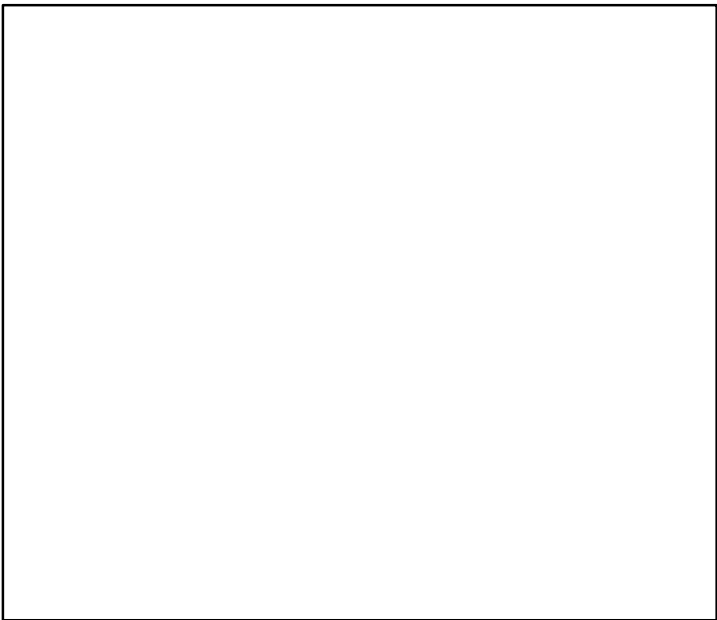
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	31		
TL	TL-MT	2018	31		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

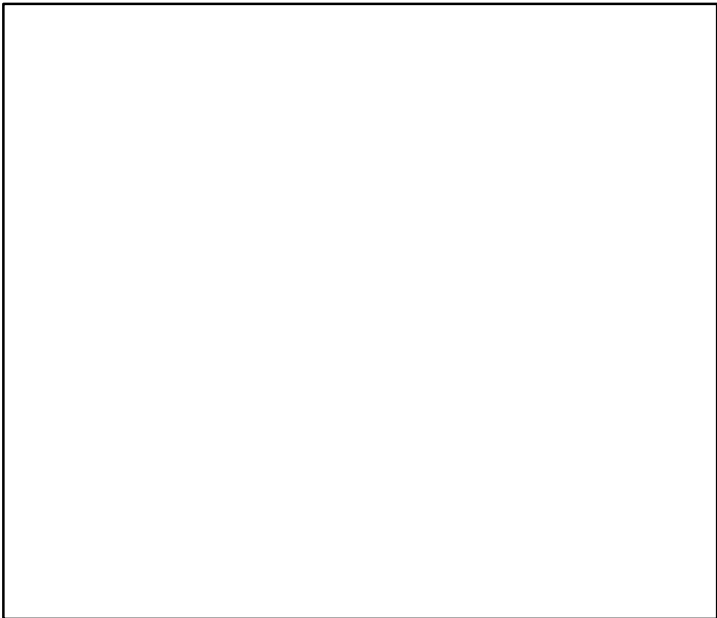
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Atlantic cod Faroe Bank [CODFABNK]

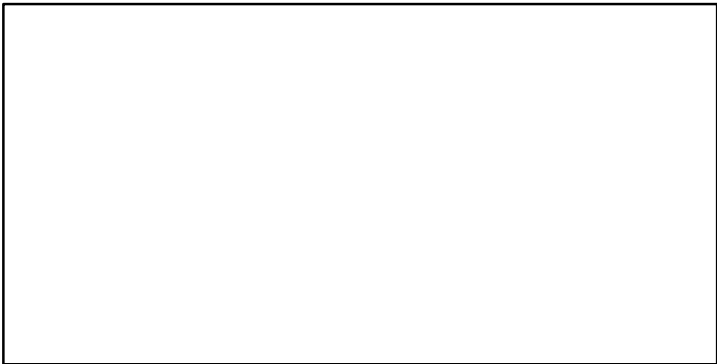
TB*



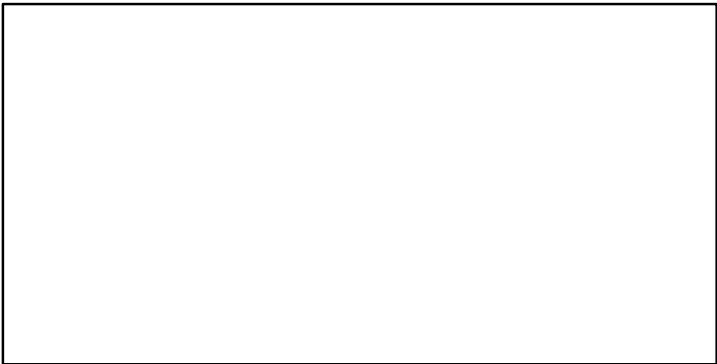
SSB*



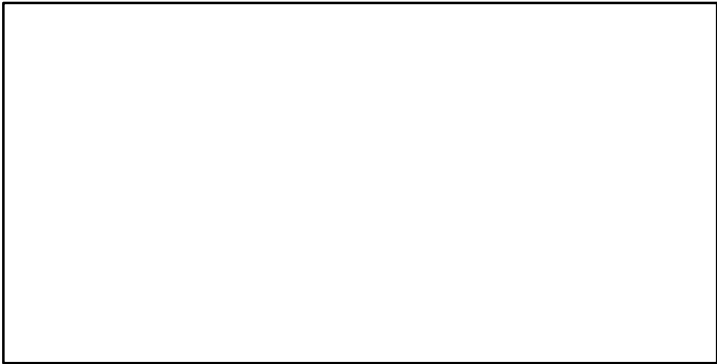
TN *



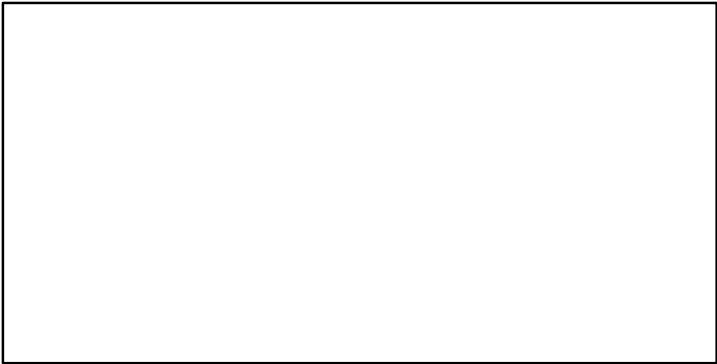
F*



ER*



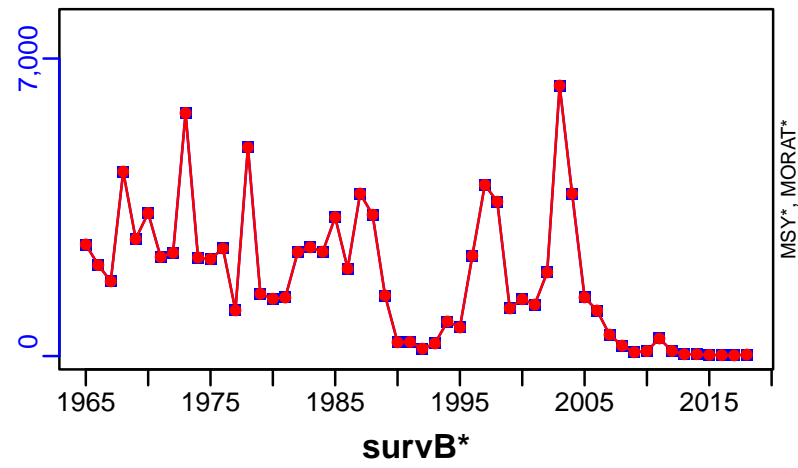
Recruits*



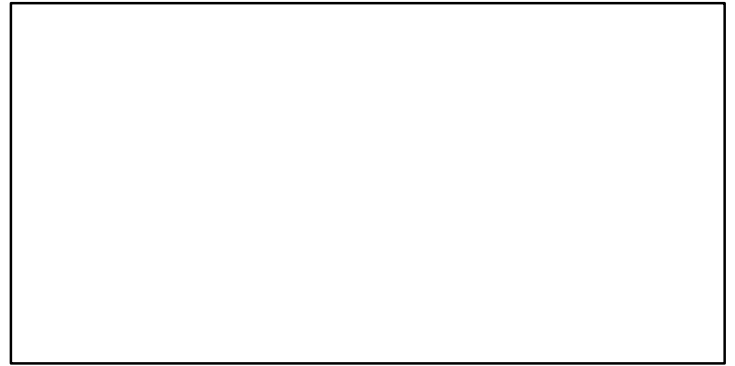
■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

Atlantic cod Faroe Bank [CODFABNK]

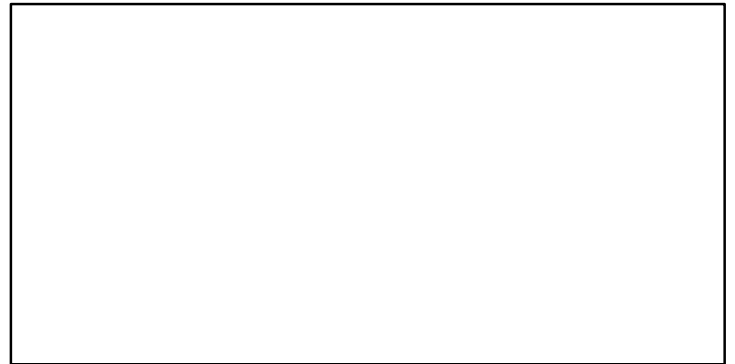
TC-MT, TL-MT, RecC* (1965–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



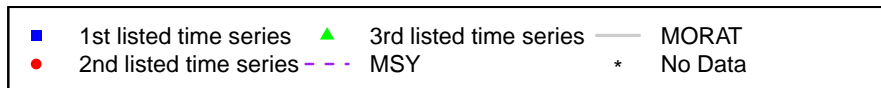
CPUE*



EFFORT*



CdivMSY*

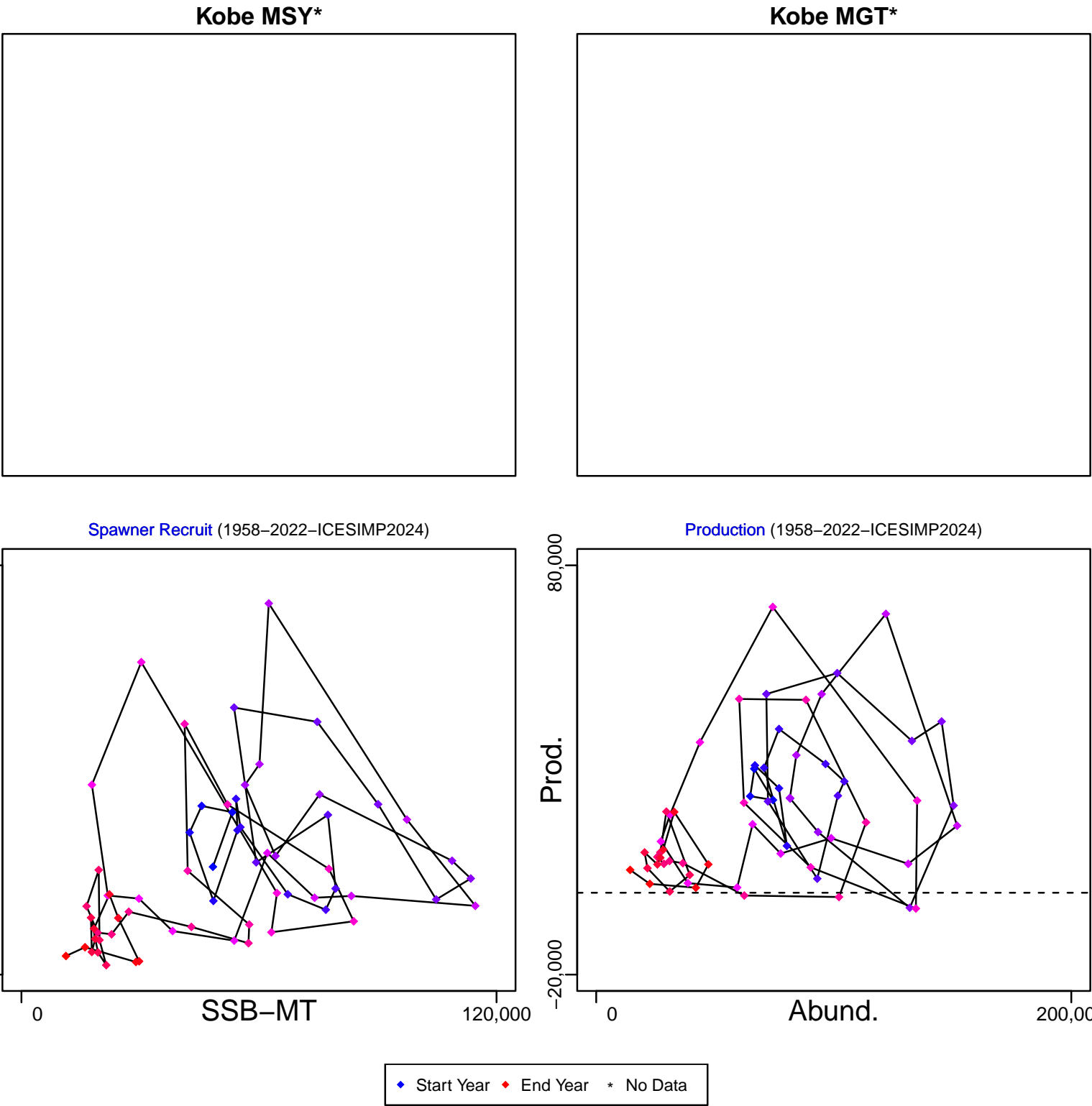


Atlantic cod Faroe Plateau [CODFAPL]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-CODFAPL-1958-2022-ICESIMP2024
Area	Faroe Plateau
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2021, 2022, 2012, 2013, 2014, 2020

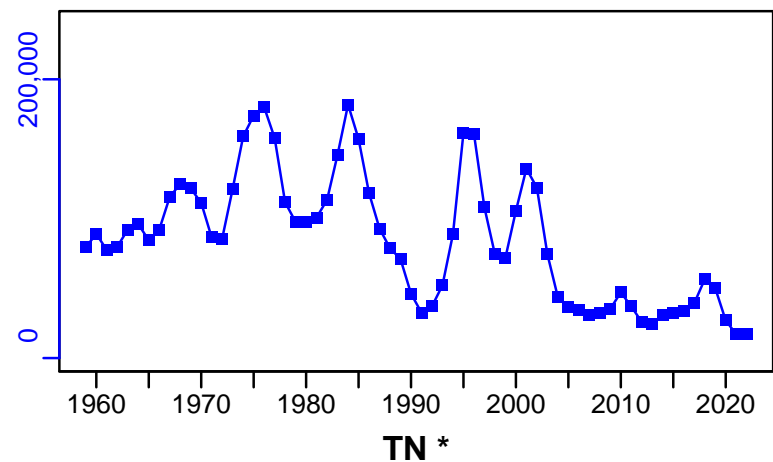
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2022	0.37
ERmsy	ERmsy-ratio	2019	0.23
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2022	0.37
ERmgt	ERmgt-ratio	2019	0.23
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	17,803
Flim	Flim-1/yr	2022	1.47
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	14,448	-	-
SSB	SSB-MT	2022	10,190	-	-
TN	-	-	-	-	-
R	R-E00	2022	2724	-	1
F	F-1/yr	2022	0.58	-	3 to 7
ER	ER-calc-ratio	2022	0.281	-	-
TC	TC-MT	2022	4064		
TL	TL-MT	2022	4064		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	1.568		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	1.857		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2022	1.568		
ER/ERmgt	-	-	-		

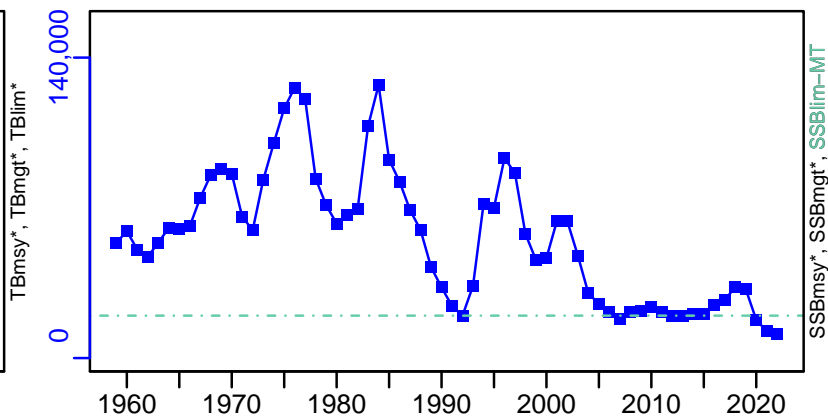


Atlantic cod Faroe Plateau [CODFAPL]

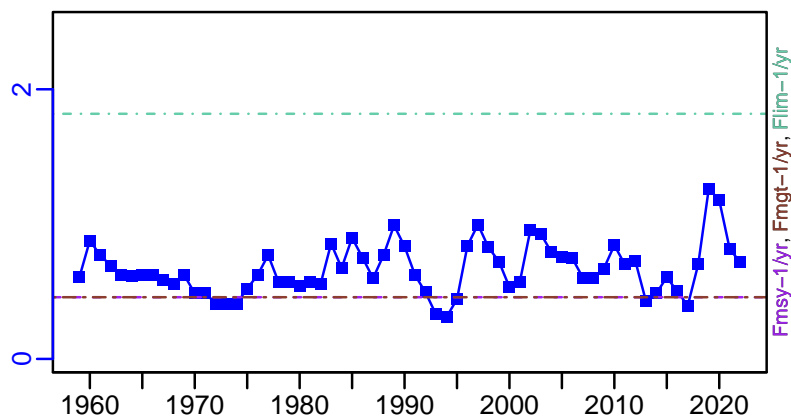
TB-MT (1958–2022–ICESIMP2024)



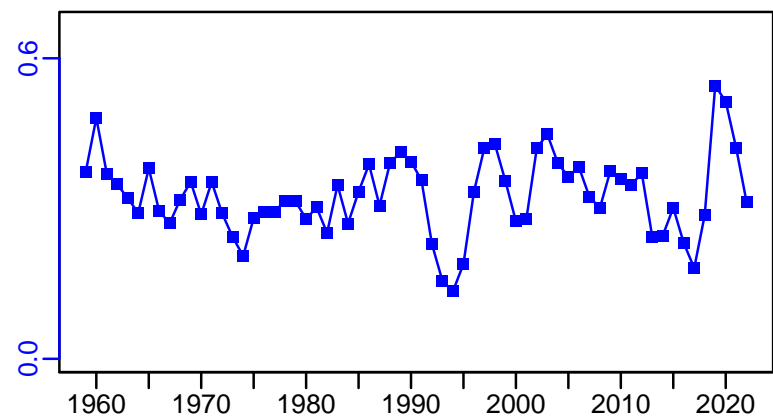
SSB-MT (1958–2022–ICESIMP2024)



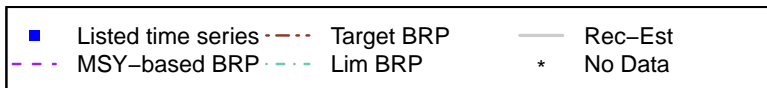
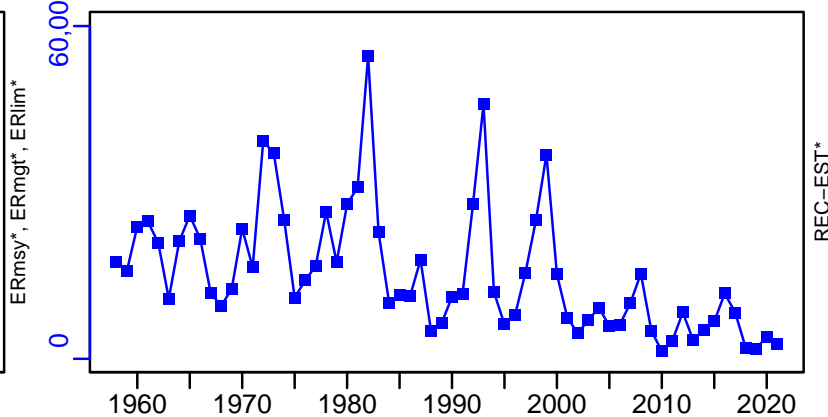
F-1/yr (1958–2022–ICESIMP2024)



ER-calc-ratio (1958–2022–ICESIMP2024)

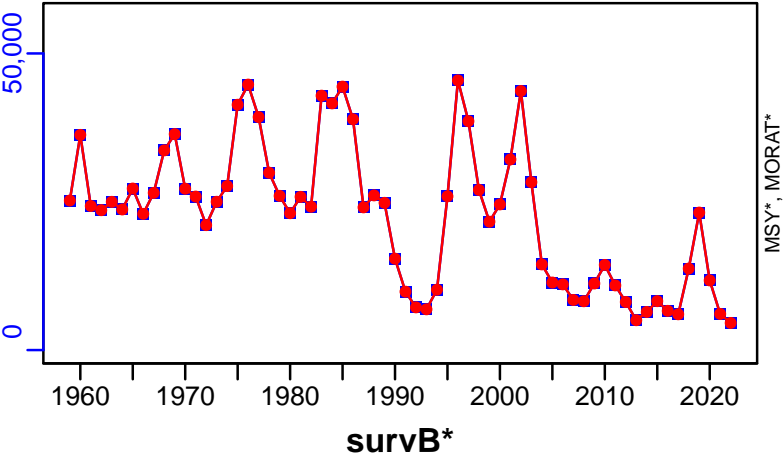


R-E00 (1958–2022–ICESIMP2024)

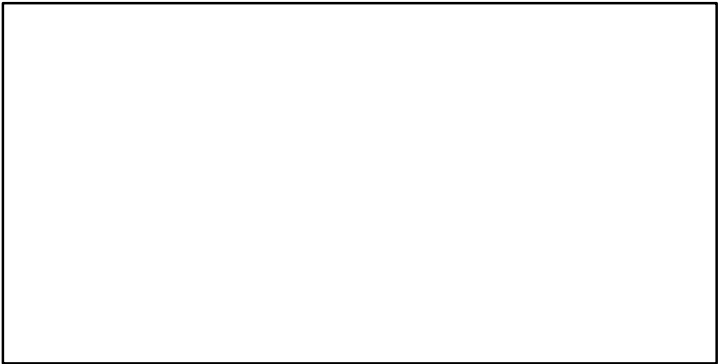


Atlantic cod Faroe Plateau [CODFAPL]

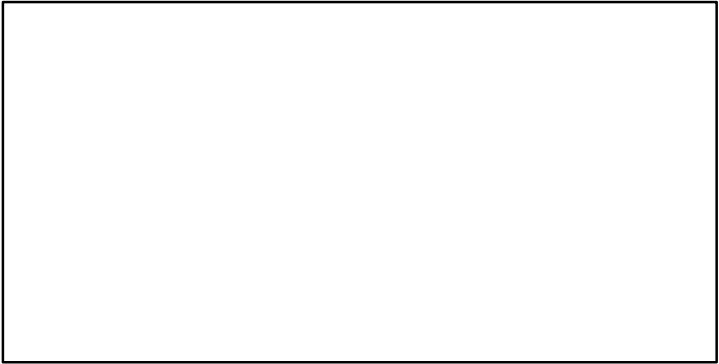
TC-MT, TL-MT, RecC* (1958-2022-ICESIMP2024)



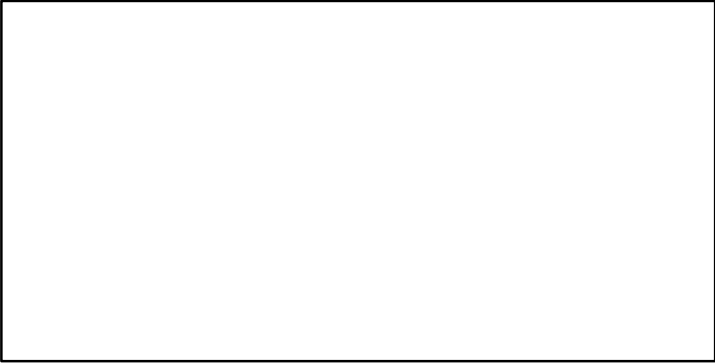
TAC*, Cpair*, Cadv*



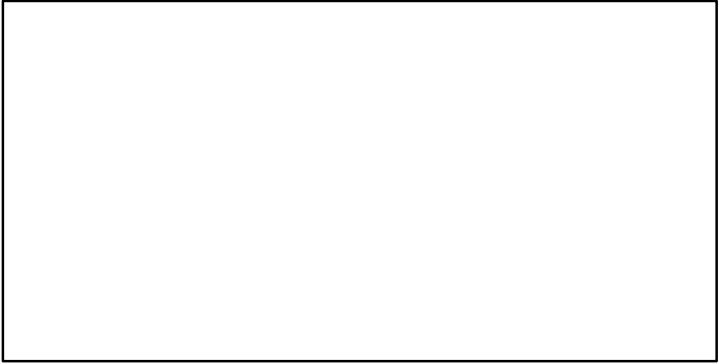
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Georges Bank [CODGB]

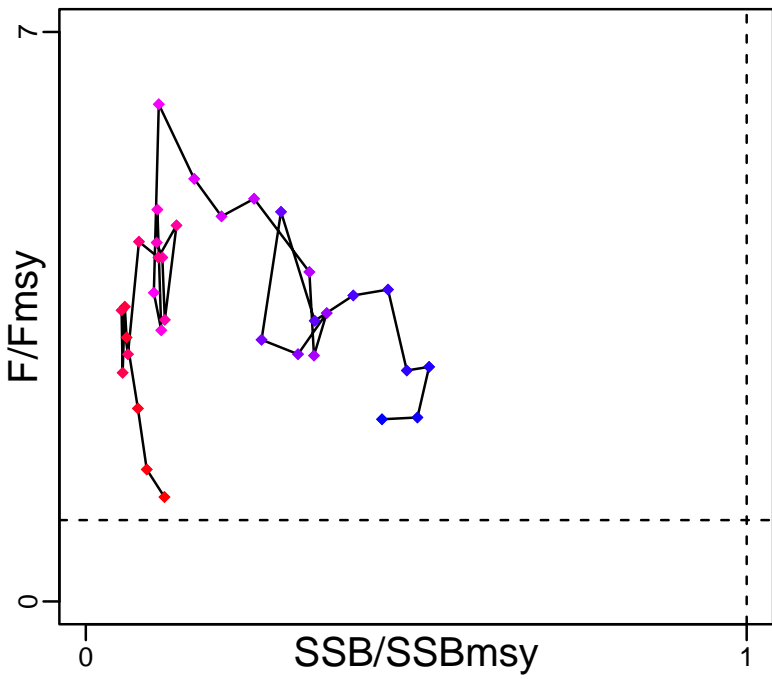
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGB-1981-2019-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2019, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	186,535
Fmsy	Fmsy-1/yr	2011	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	28,774
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

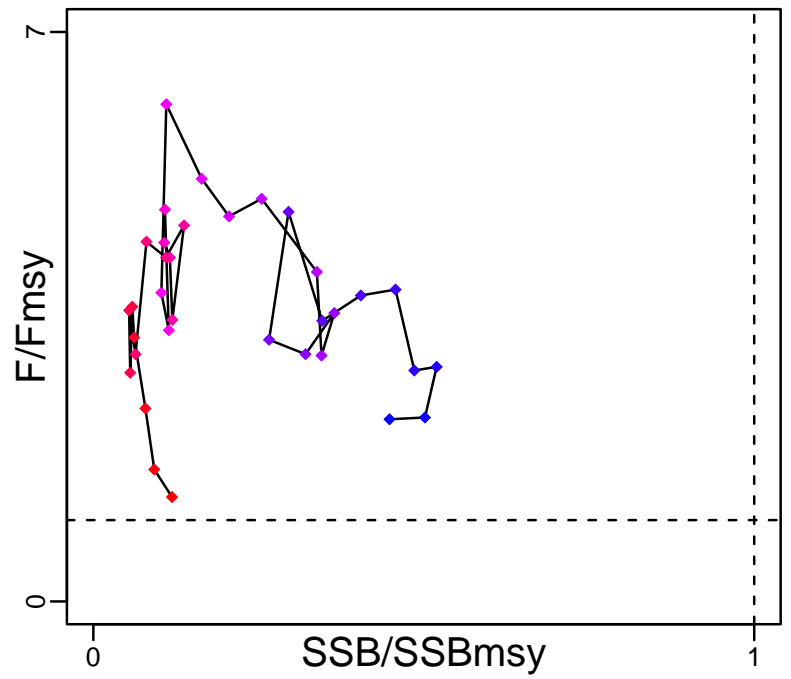
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	22,200	-	2.4+
TN	-	-	-	-	-
R	R-E00	2011	7,930,000	-	-
F	F-1/yr	2011	0.231	-	-
ER	ER-ratio	2019	0.119	-	-
TC	TC-MT	2019	1180		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.119		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	1.283		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Georges Bank [CODGB]

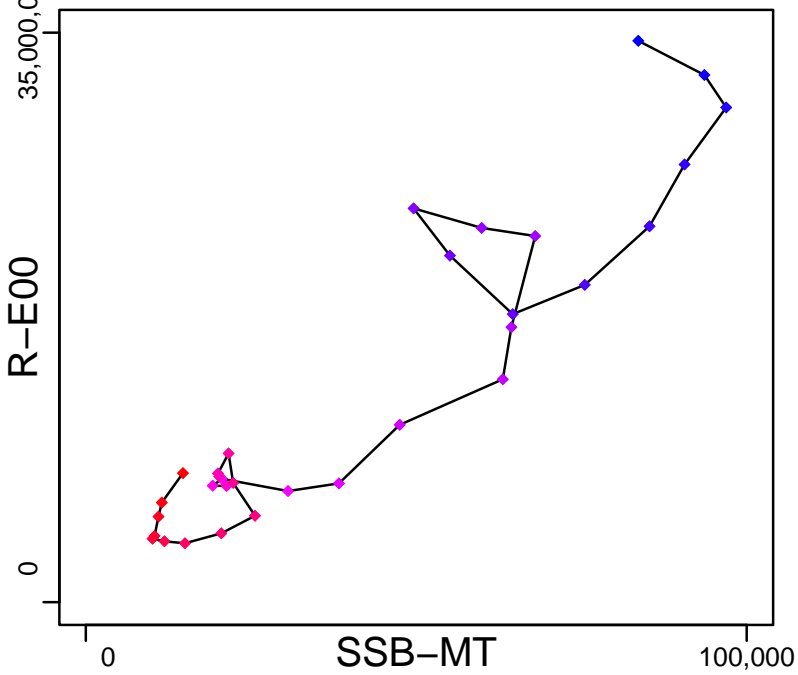
Kobe MSYpref (1976–2011–CHING)



Kobe MGTpref (1976–2011–CHING)



Spawner Recruit (1976–2011–CHING)



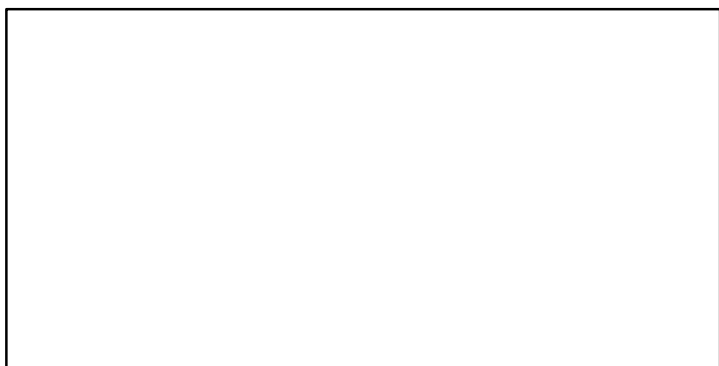
Production*



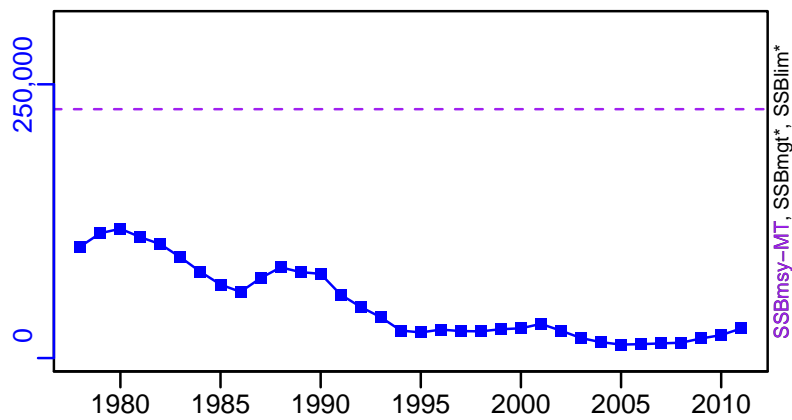
◆ Start Year ◆ End Year * No Data

Atlantic cod Georges Bank [CODGB]

TB*



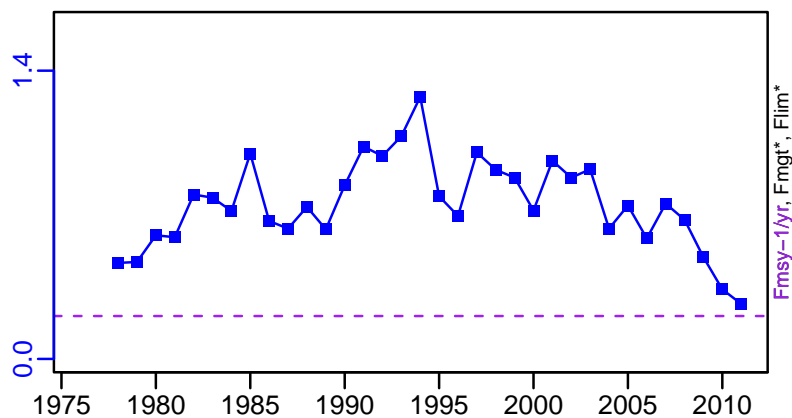
SSB-MT (1976–2011–CHING)



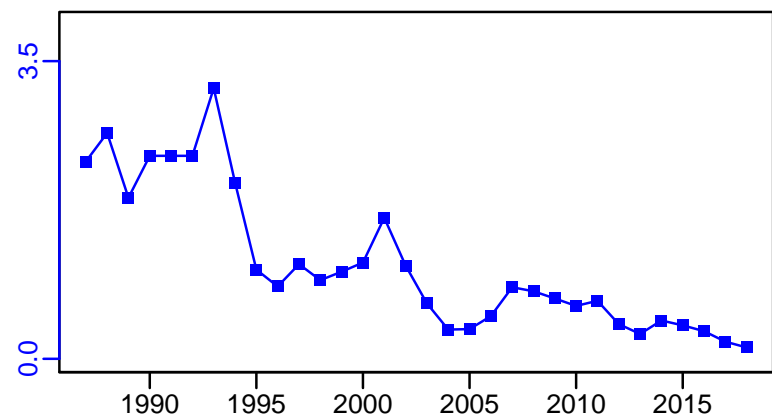
TN *



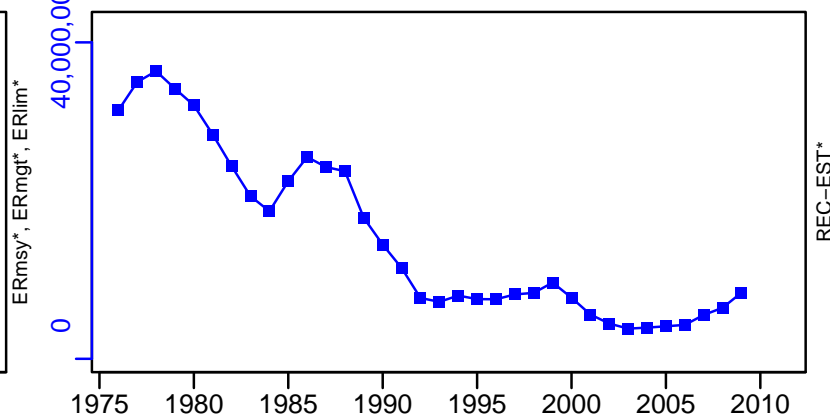
F-1/yr (1976–2011–CHING)



ER-ratio (1981–2019–SISIMP2021–2)



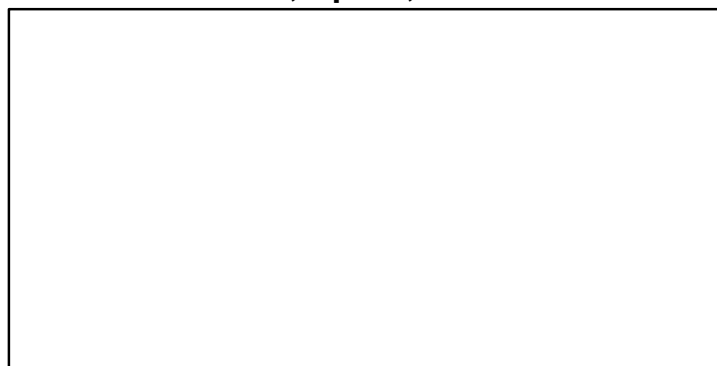
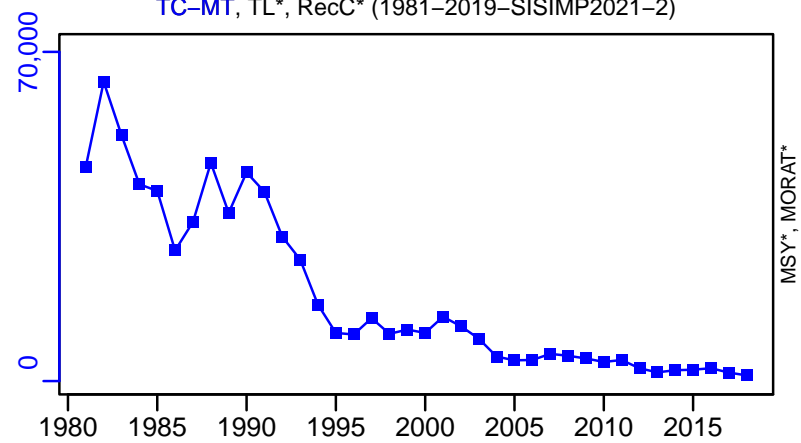
R-E00 (1976–2011–CHING)



Atlantic cod Georges Bank [CODGB]

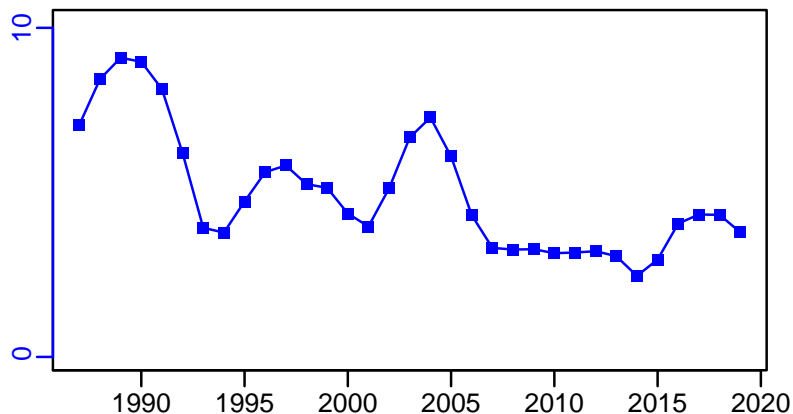
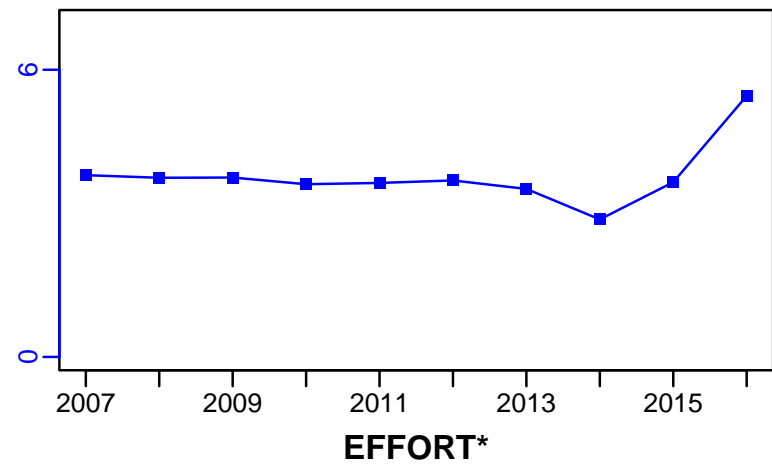
TC-MT, TL*, RecC* (1981–2019–SISIMP2021–2)

TAC*, Cpair*, Cadv*

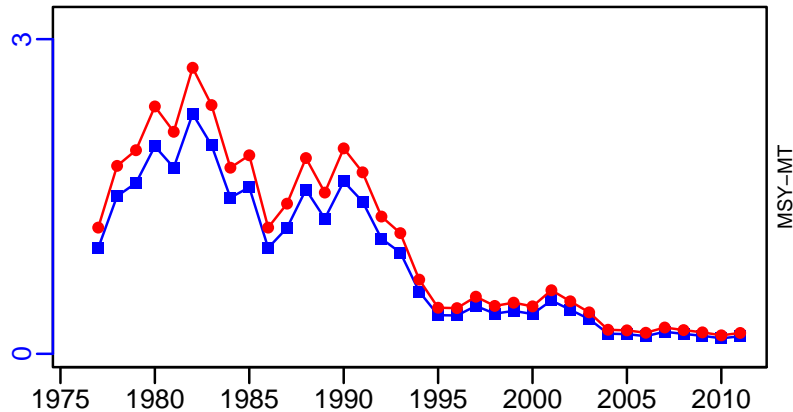
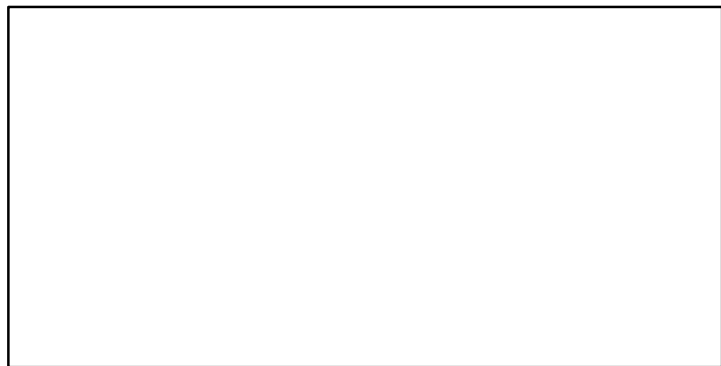


survB-index (2007–2016–SISIMP2021)

CPUE-index (1981–2019–SISIMP2021–2)



TC-MT/MSY-MT, CdivMEANC-ratio, (1976–2011–CHING)



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

Atlantic cod Gulf of Maine [CODGOM]

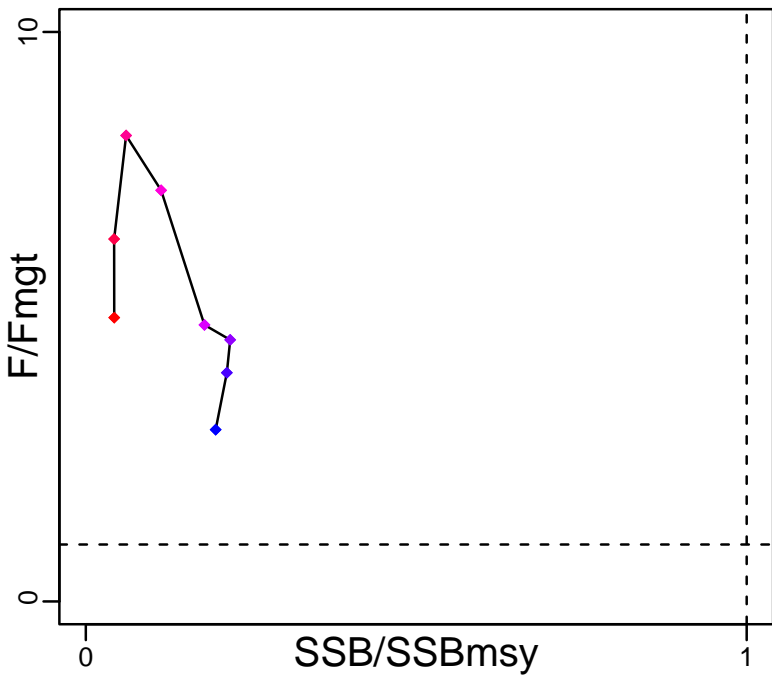
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGOM-1982-2018-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2018, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	59,045
Fmsy	Fmsy-1/yr	2011	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	59,045
Fmgt	Fmgt-1/yr	2014	0.187
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	10,043
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

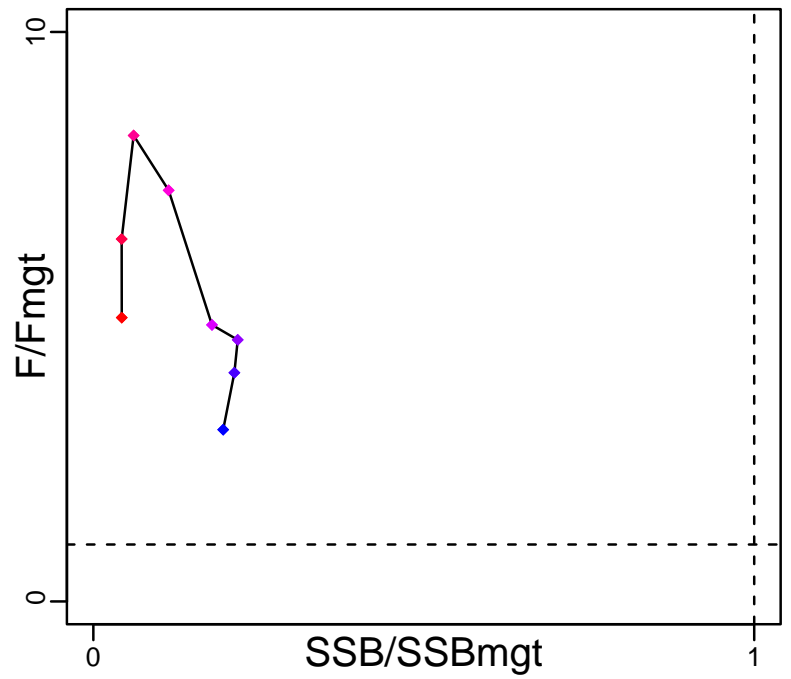
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2540	-	-
TN	-	-	-	-	-
R	R-E00	2014	3,210,000	-	1
F	F-1/yr	2014	0.932	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	753		
TL	TL-MT	2014	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.043		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	4.878		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.043		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	4.984		
ER/ERmgt	-	-	-		

Atlantic cod Gulf of Maine [CODGOM]

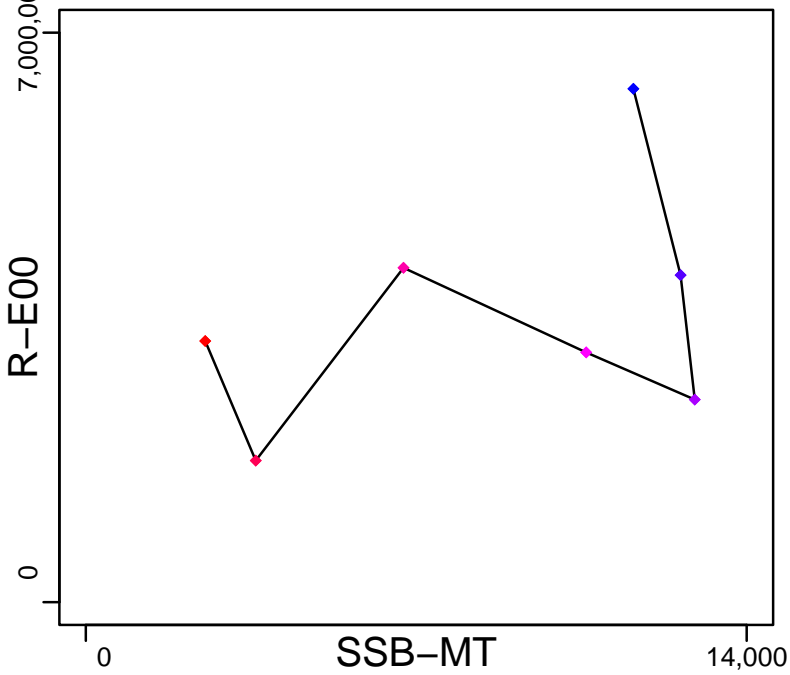
Kobe MSYpref (2006–2014–ASHBROOK)



Kobe MGTpref (2006–2014–ASHBROOK)



Spawner Recruit (2006–2014–ASHBROOK)



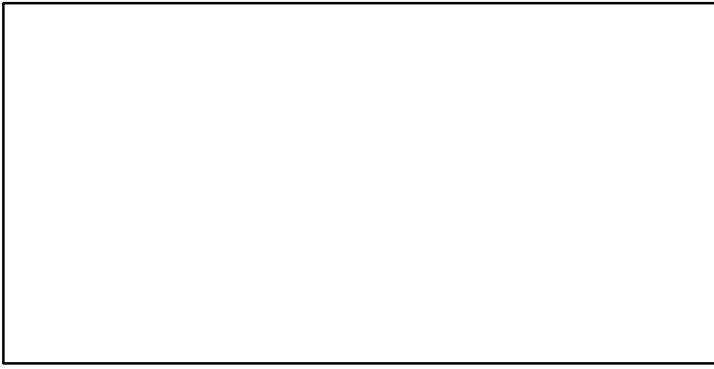
Production*



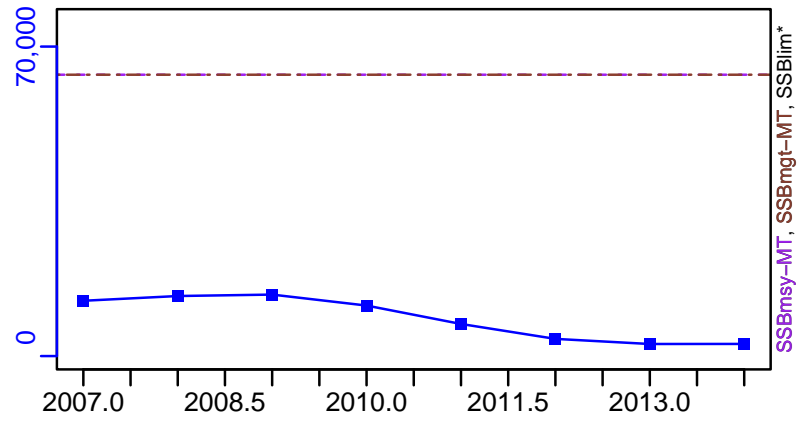
◆ Start Year ◆ End Year * No Data

Atlantic cod Gulf of Maine [CODGOM]

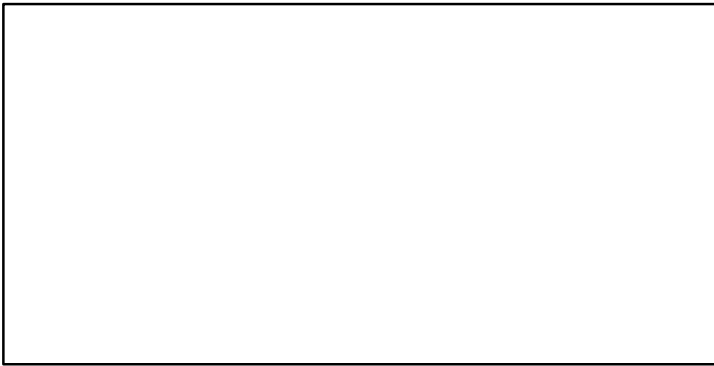
TB*



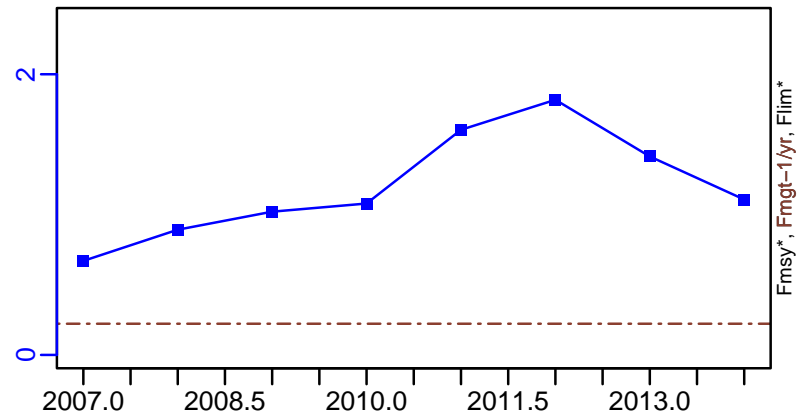
SSB-MT (2006–2014–ASHBROOK)



TN *



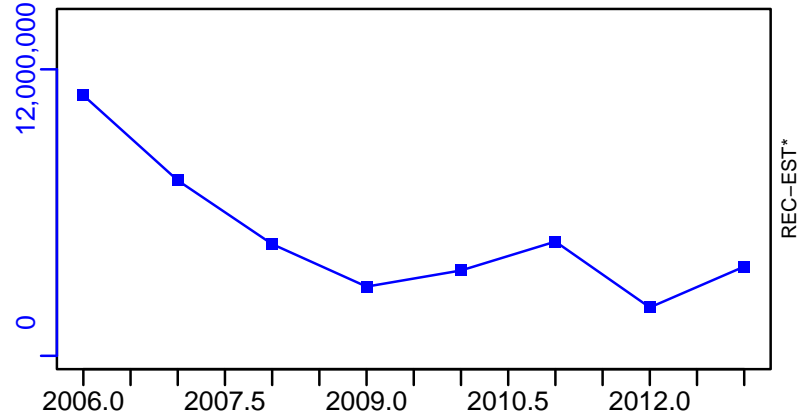
F-1/yr (2006–2014–ASHBROOK)



ER*

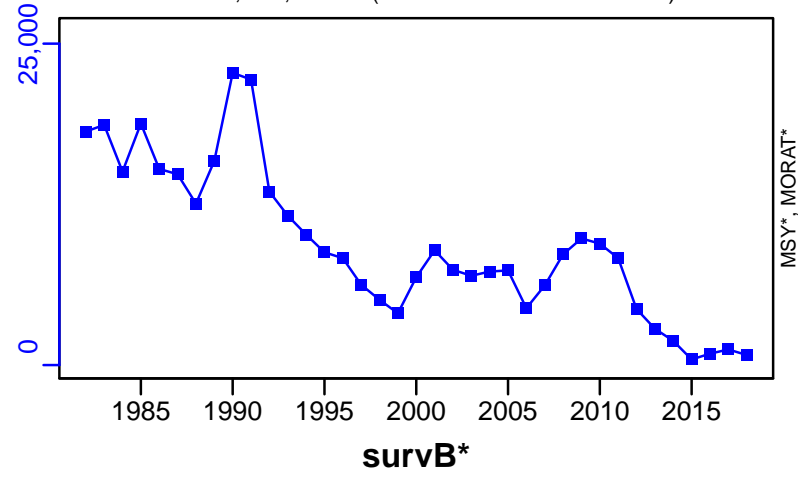


R-E00 (2006–2014–ASHBROOK)

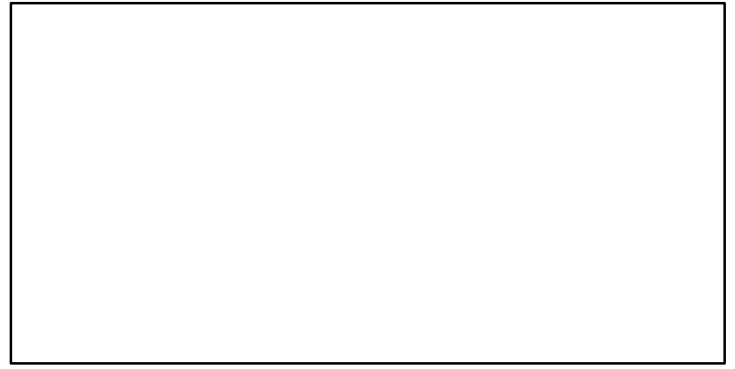


Atlantic cod Gulf of Maine [CODGOM]

TC-MT, TL*, RecC* (1982-2018-SISIMP2021-2)



TAC*, Cpair*, Cadv*



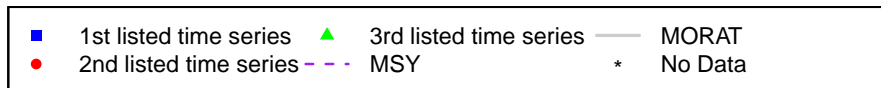
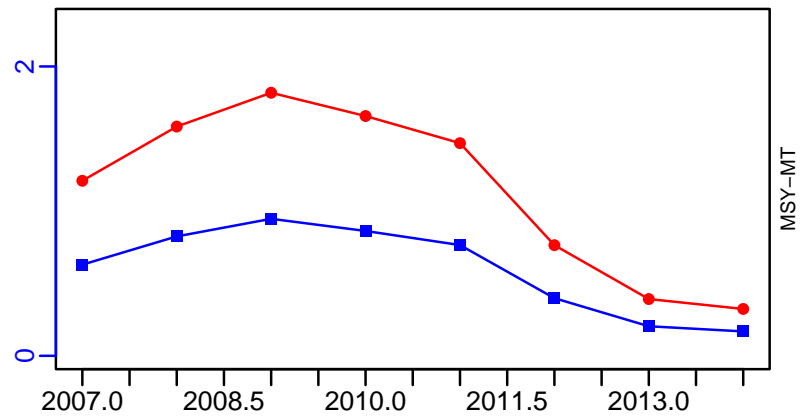
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (2006-2014-ASHBROOK)



Atlantic cod Iceland Grounds [CODICE]

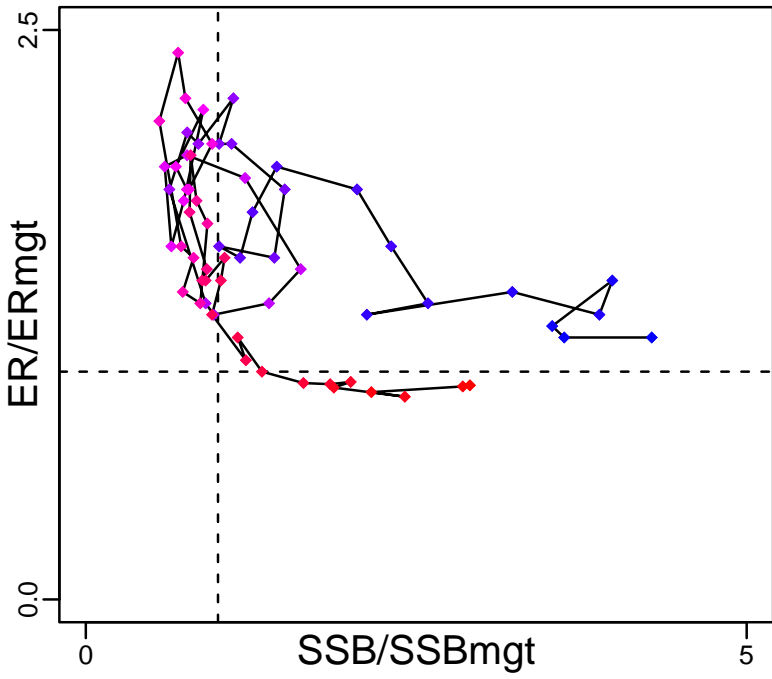
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NWWG-CODICE-1955-2023-ICESIMP2021-2
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2018	0.2
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	220,000
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.2
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	125,000
Flim	Flim-1/yr	2018	0.74
ERlim	-	-	-

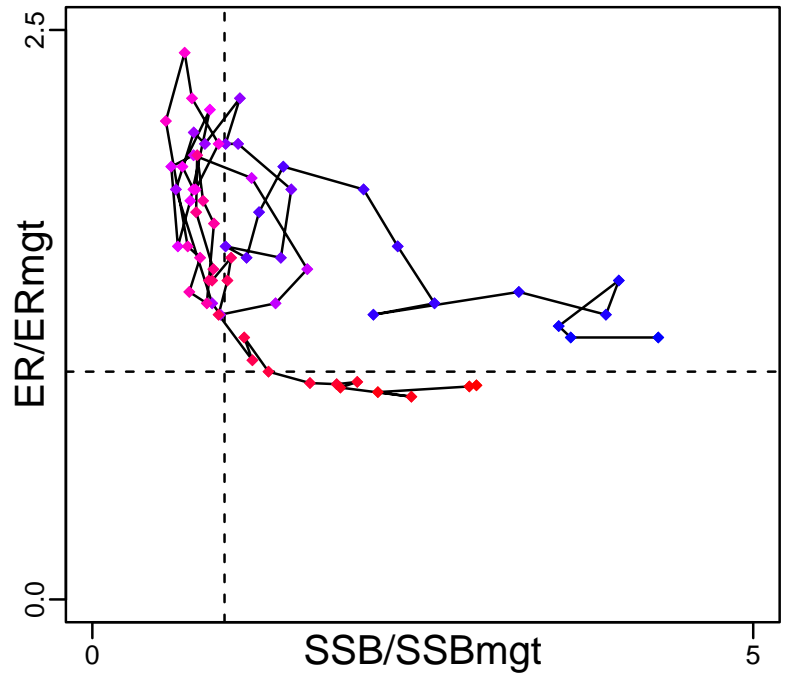
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	1,160,000	Both	-
SSB	SSB-MT	2023	361,000	-	-
TN	-	-	-	-	-
R	R-E00	2023	163,000	-	3
F	F-1/yr	2019	0.27	-	5 to 10
ER	ER-ratio	2023	0.259	-	-
TC	TC-MT	2023	270,000		
TL	TL-MT	2023	270,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.91		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.805		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Iceland Grounds [CODICE]

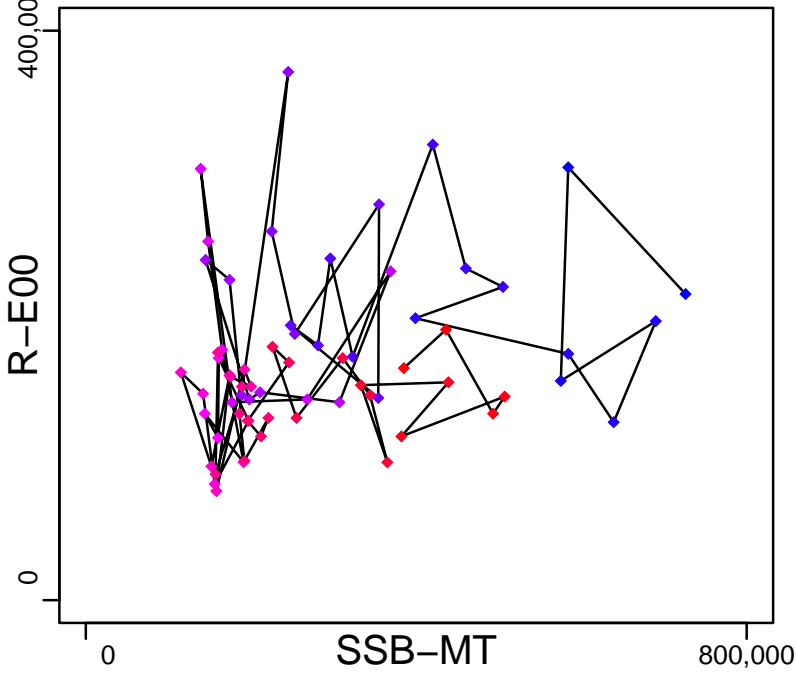
Kobe MSYpref (1952–2019–ICESIMP2021)



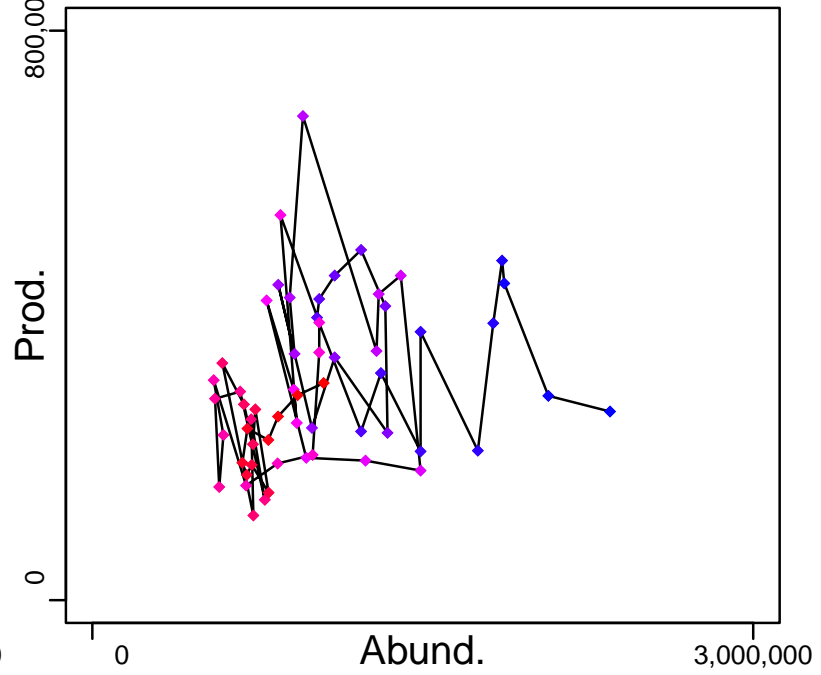
Kobe MGTpref (1952–2019–ICESIMP2021)



Spawner Recruit (1955–2023–ICESIMP2021–2)



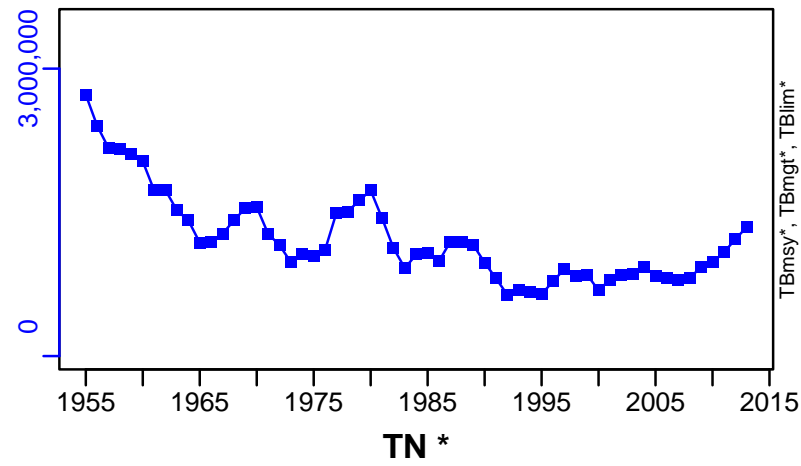
Production (1952–2014–ICESIMP2016)



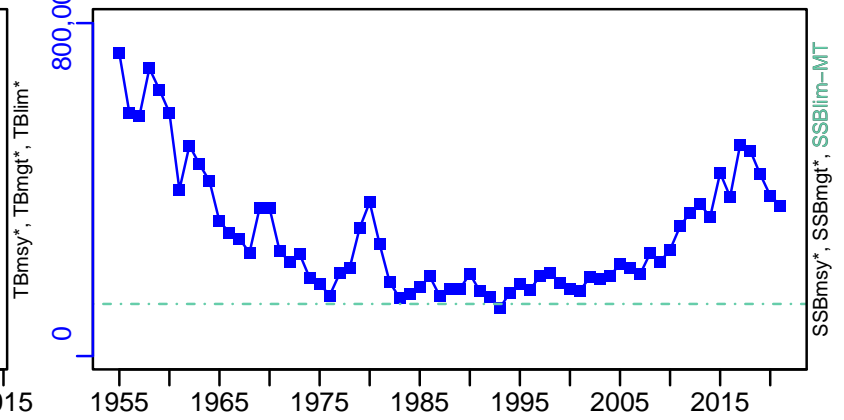
◆ Start Year ◆ End Year * No Data

Atlantic cod Iceland Grounds [CODICE]

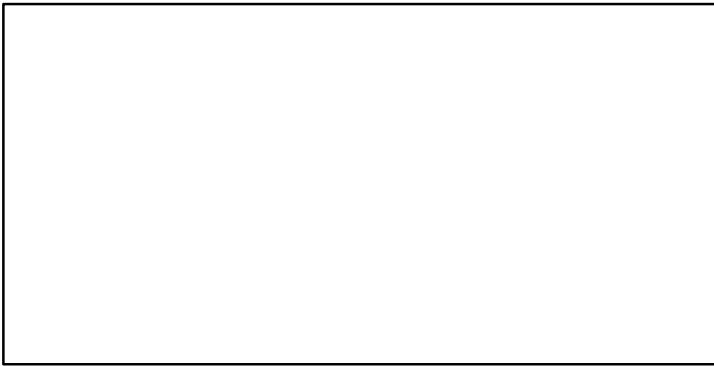
TB-MT (1952-2014-ICESIMP2016)



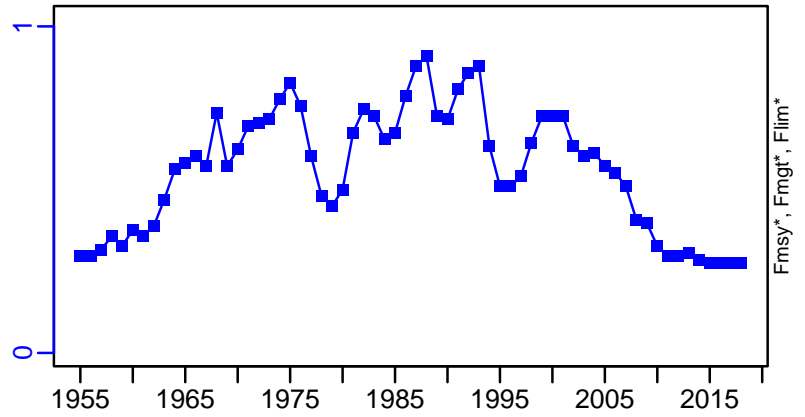
SSB-MT (1955-2023-ICESIMP2021-2)



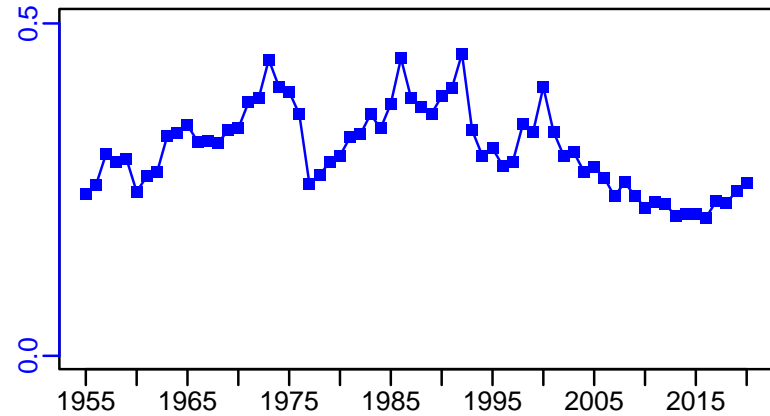
TN *



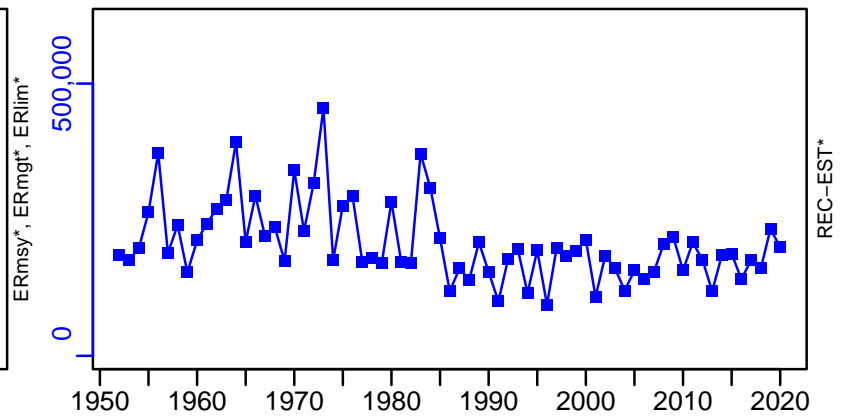
F-1/yr (1952-2019-ICESIMP2021)



ER-ratio (1955-2023-ICESIMP2021-2)



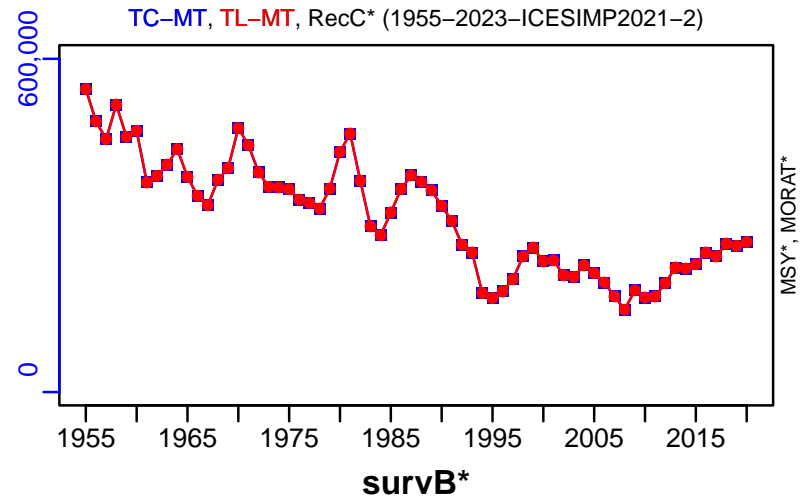
R-E00 (1955-2023-ICESIMP2021-2)



Atlantic cod Iceland Grounds [CODICE]

TC-MT, TL-MT, RecC* (1955–2023–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

Atlantic cod ICES 3a(west)-4-7d [CODIIIaW-IV-VIId]

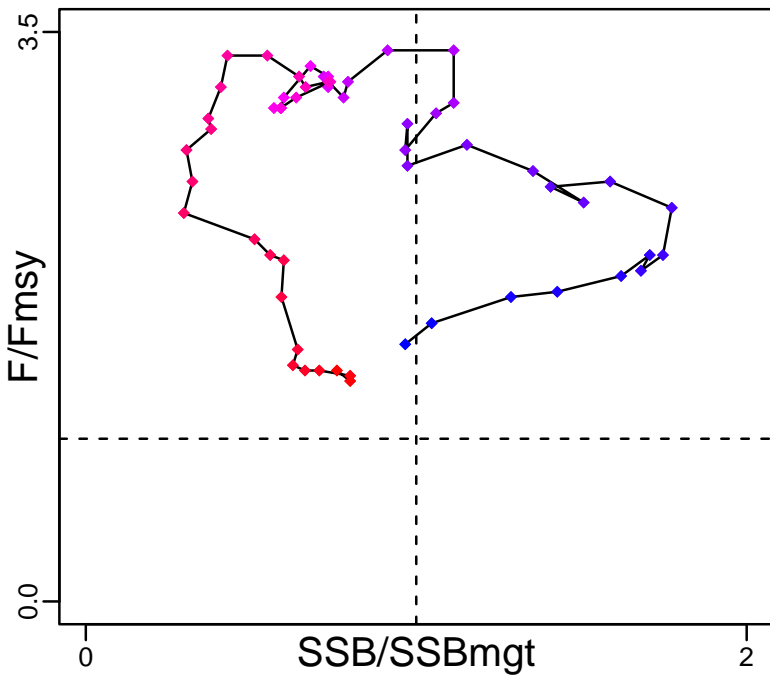
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGNSSK-CODIIIaW-IV-VIId-1962-2022-ICESIMP2024
Area	ICES 3a(west)-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2016, 2017, 2018, 2019, 2022, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2022	0.28
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	150,000
Fmgt	Fmgt-1/yr	2022	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	69,841
Flim	Flim-1/yr	2022	0.58
ERlim	-	-	-

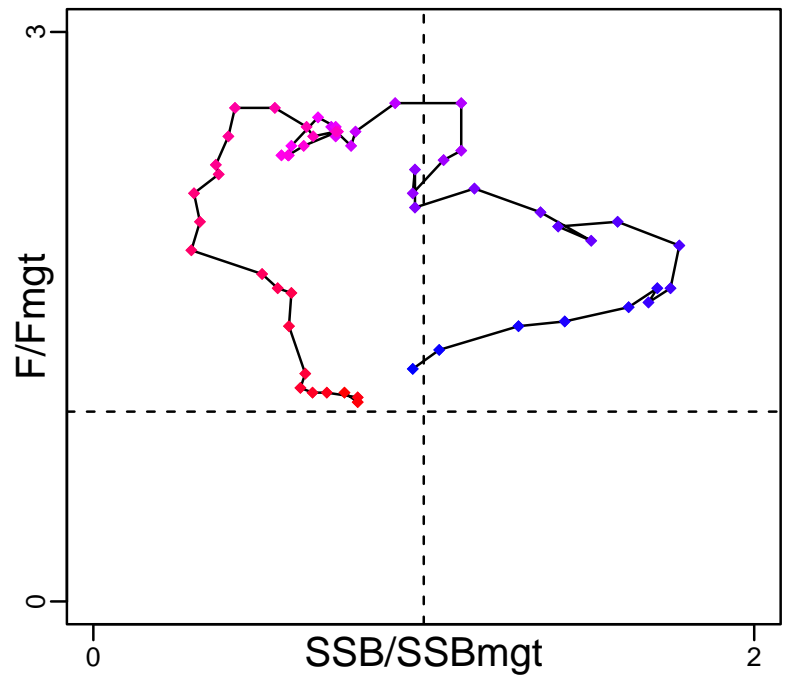
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	120,590	-	-
SSB	SSB-MT	2022	54,148	-	-
TN	-	-	-	-	-
R	R-E00	2022	222,820	-	1
F	F-1/yr	2022	0.247	-	2 to 4
ER	ER-calc-ratio	2022	0.192	-	-
TC	TC-MT	2022	18,403		
TL	TL-MT	2022	14,660		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.882		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.787		
F/Fmgt	F-1/yr/Fmgt-1/yr	2022	0.882		
ER/ERmgt	-	-	-		

Atlantic cod ICES 3a(west)-4-7d [CODIIIaW-IV-VIId]

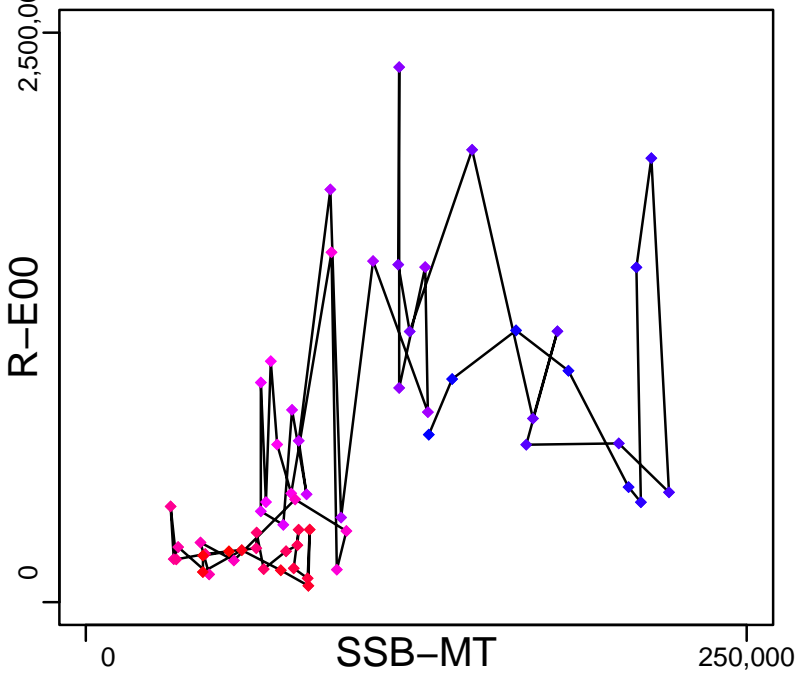
Kobe MSYpref (1962-2018-ICESIMP2018)



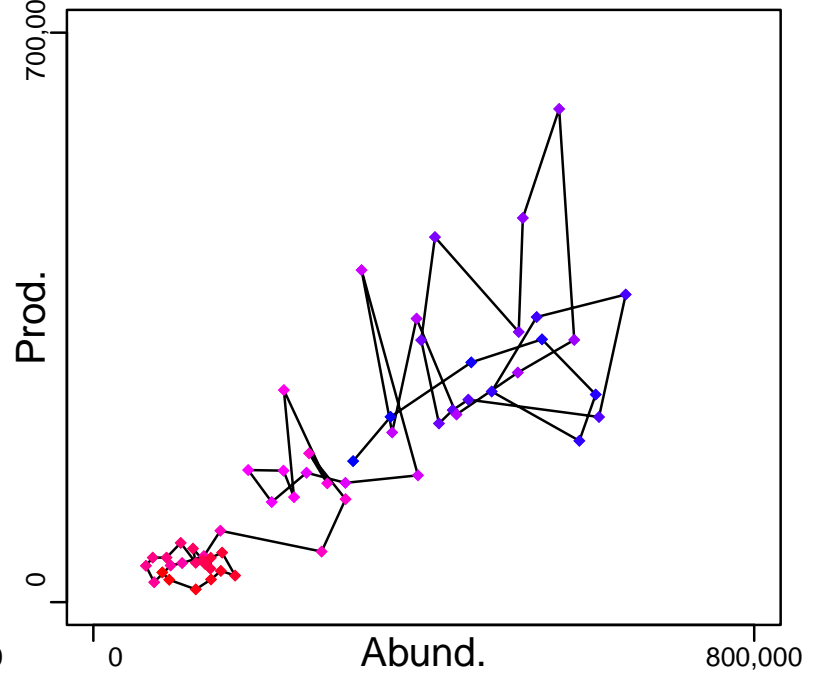
Kobe MGTpref (1962-2018-ICESIMP2018)



Spawner Recruit (1962-2022-ICESIMP2024)



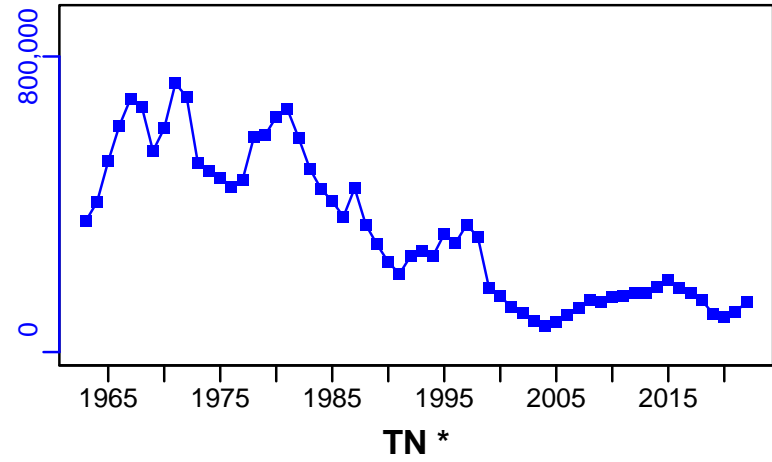
Production (1962-2022-ICESIMP2024)



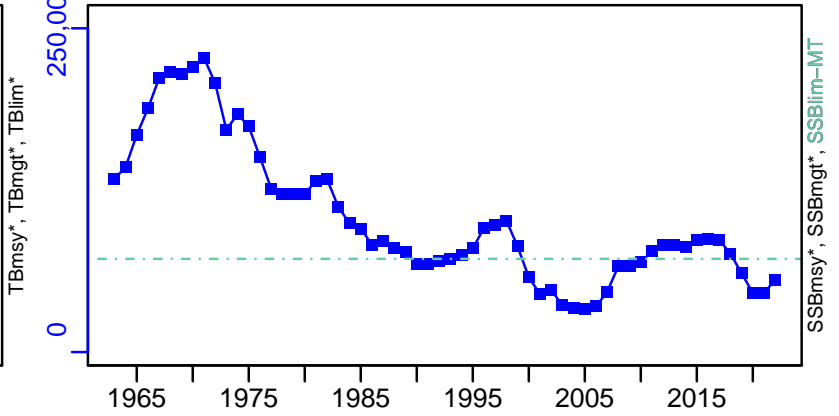
◆ Start Year ◆ End Year * No Data

Atlantic cod ICES 3a(west)-4-7d [CODIIIaW-IV-VIIId]

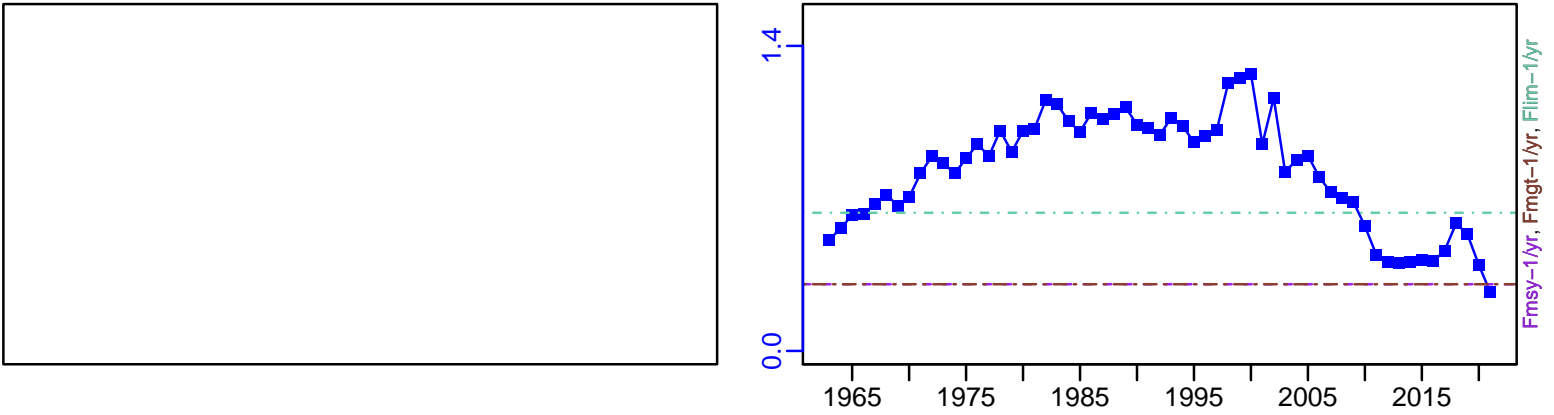
TB-MT (1962-2022-ICESIMP2024)



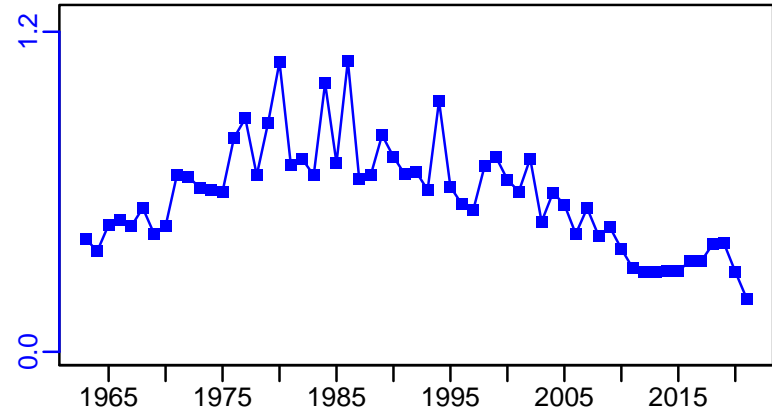
SSB-MT (1962-2022-ICESIMP2024)



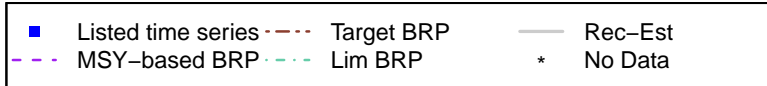
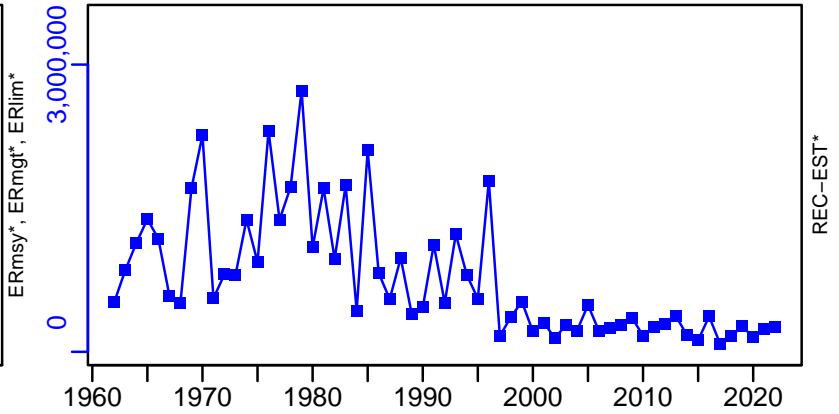
F-1/yr (1962-2022-ICESIMP2024)



ER-calc-ratio (1962-2022-ICESIMP2024)

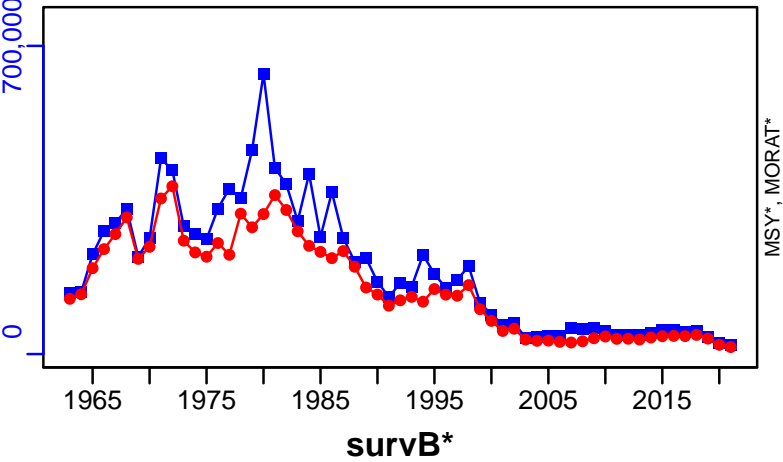


R-E00 (1962-2022-ICESIMP2024)



Atlantic cod ICES 3a(west)-4-7d [CODIIIaW-IV-VIIId]

TC-MT, TL-MT, RecC* (1962-2022-ICESIMP2024)



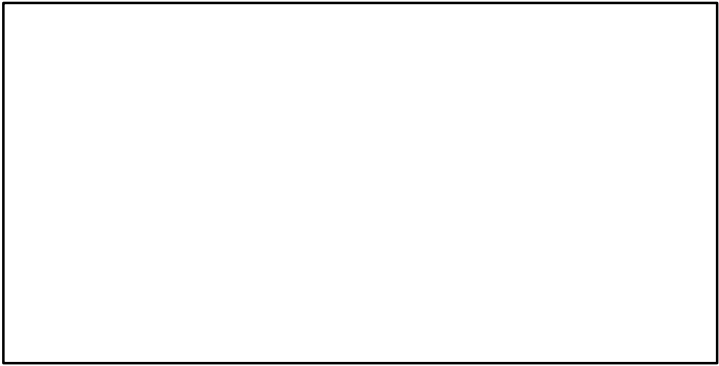
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Atlantic cod Irish Sea [CODIS]

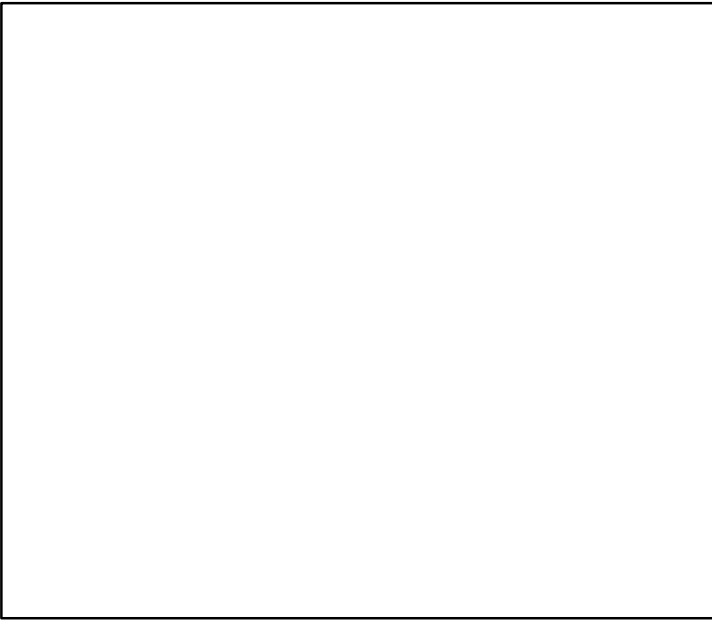
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODIS-1968-2023-ICESIMP2024
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2020, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.174
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.174
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	9364
Flim	Flim-1/yr	2023	0.33
ERlim	-	-	-

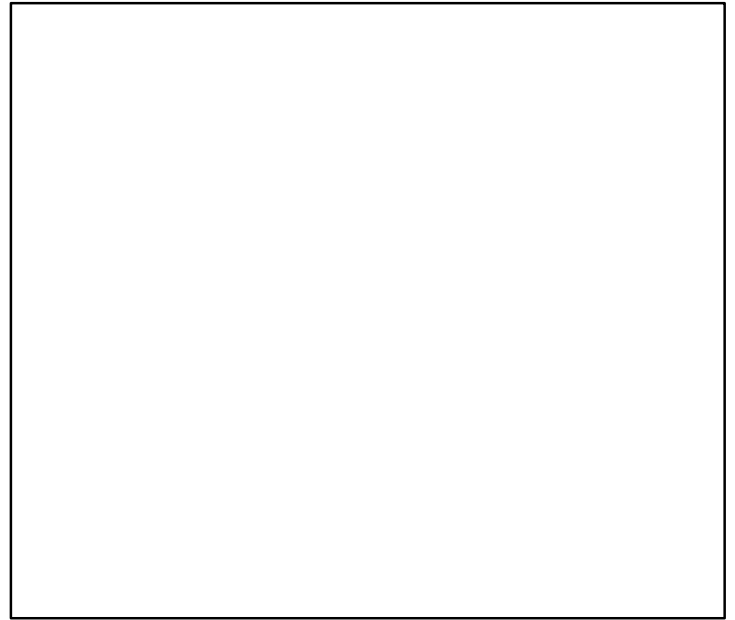
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	8650	Both	-
SSB	SSB-MT	2023	11,714	-	-
TN	-	-	-	-	-
R	R-E00	2023	21,811	-	0
F	F-1/yr	2023	0.024	-	2 to 4
ER	ER-calc-ratio	2017	0.016	-	-
TC	TC-MT	2023	125		
TL	TL-MT	2023	98		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.141		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.141		
ER/ERmgt	-	-	-		

Atlantic cod Irish Sea [CODIS]

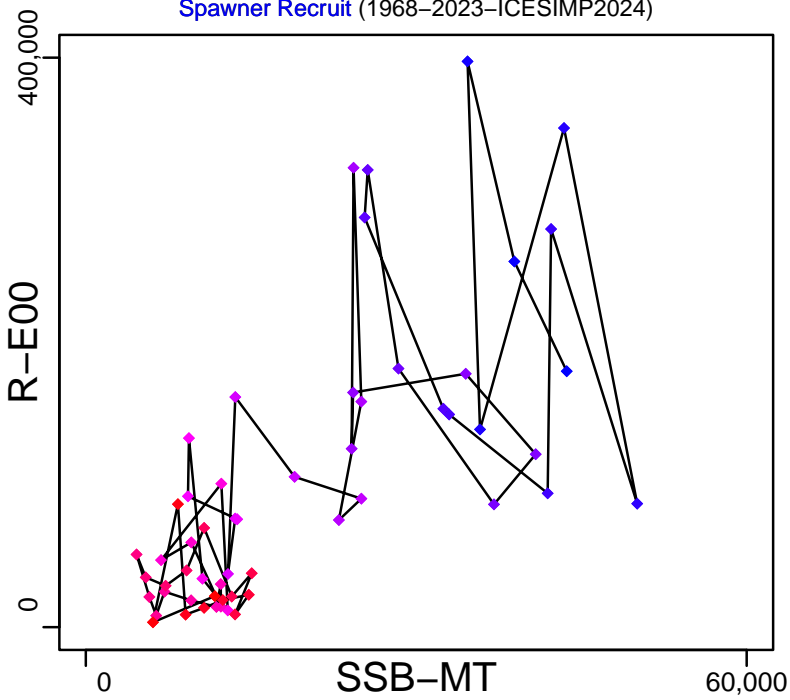
Kobe MSY*



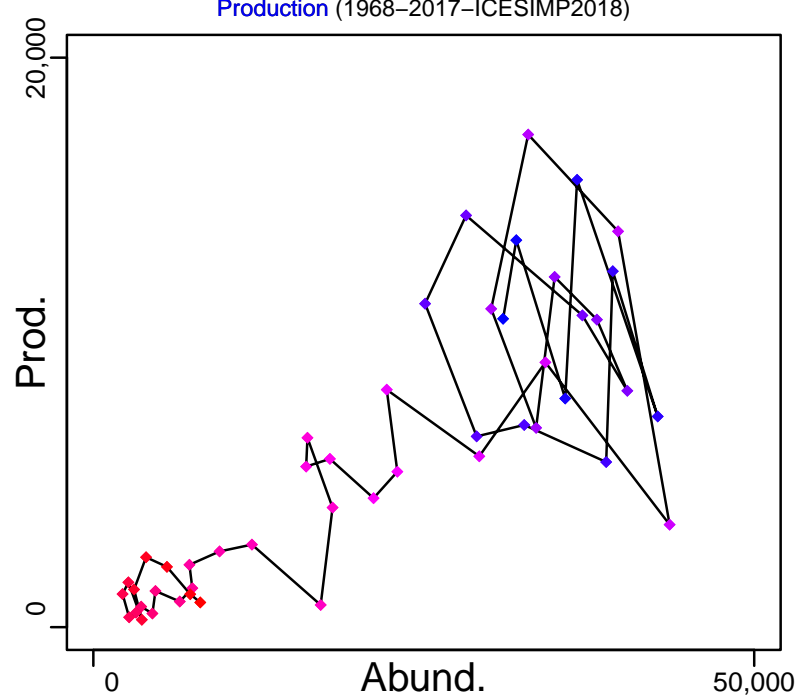
Kobe MGT*



Spawner Recruit (1968–2023–ICESIMP2024)



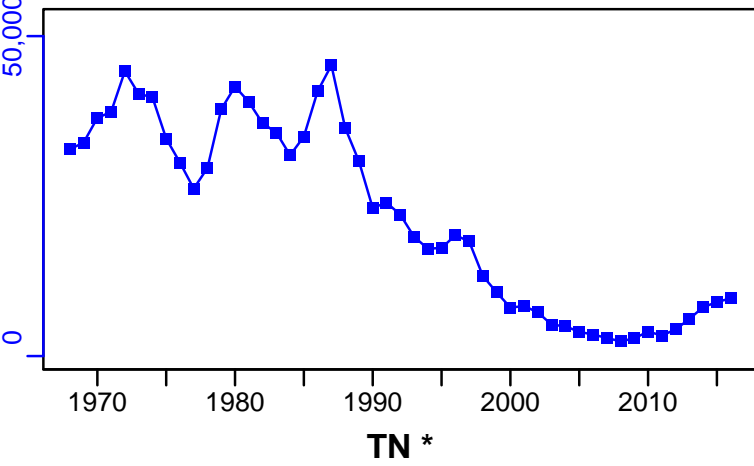
Production (1968–2017–ICESIMP2018)



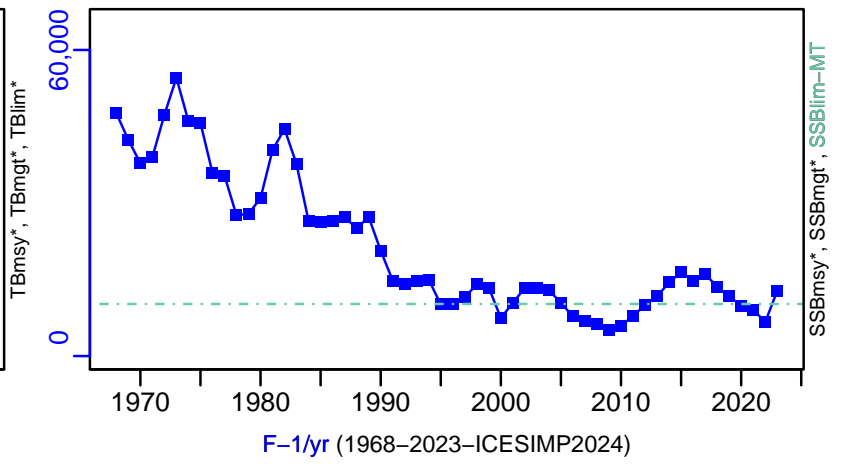
◆ Start Year ◆ End Year * No Data

Atlantic cod Irish Sea [CODIS]

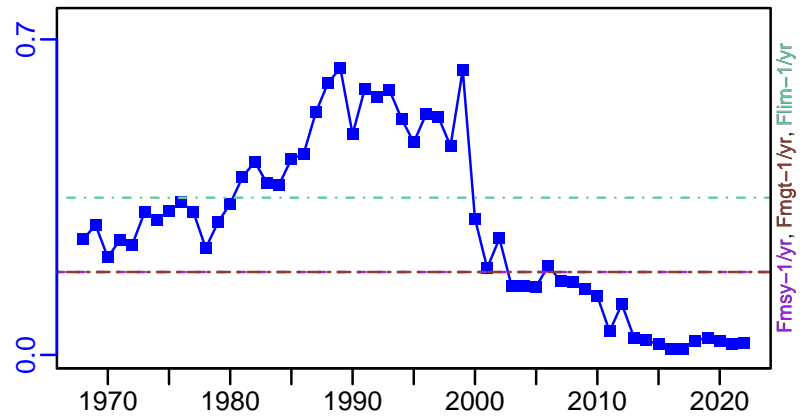
TB-MT (1968–2017–ICESIMP2018)



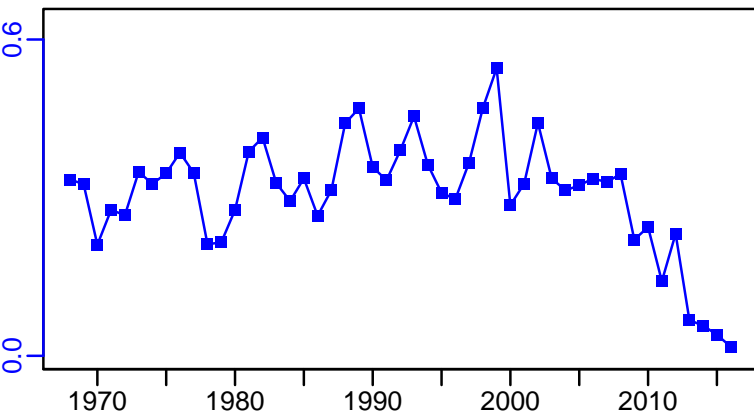
SSB-MT (1968–2023–ICESIMP2024)



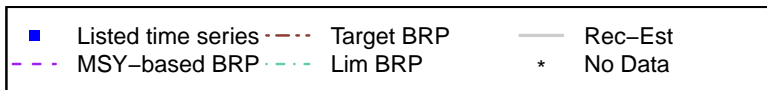
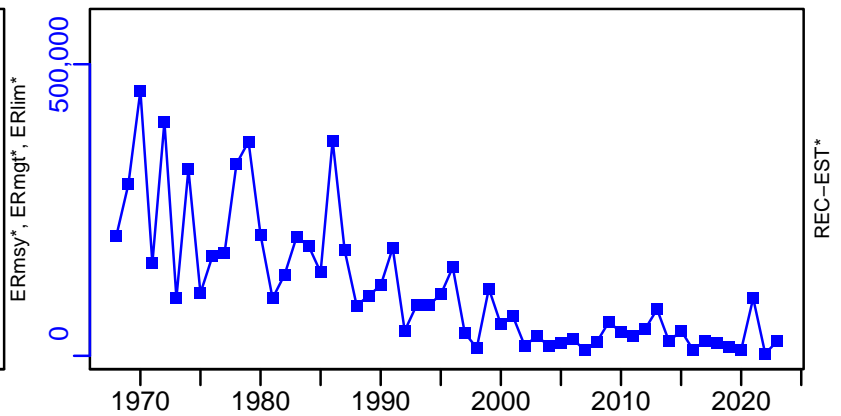
F-1/yr (1968–2023–ICESIMP2024)



ER-calc-ratio (1968–2017–ICESIMP2018)

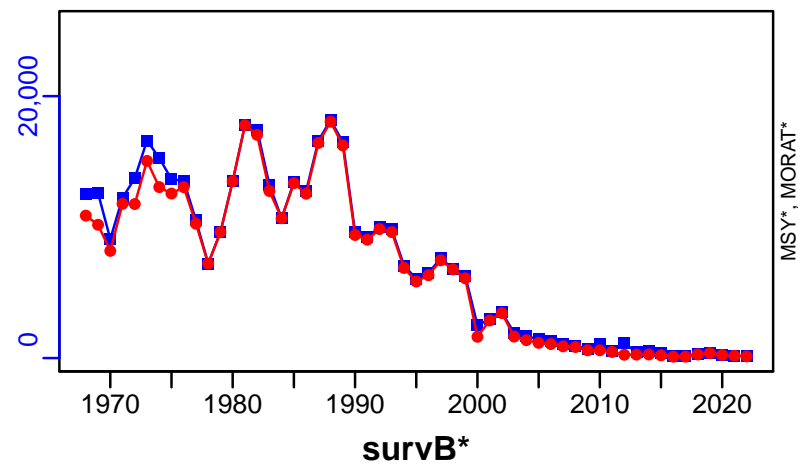


R-E00 (1968–2023–ICESIMP2024)

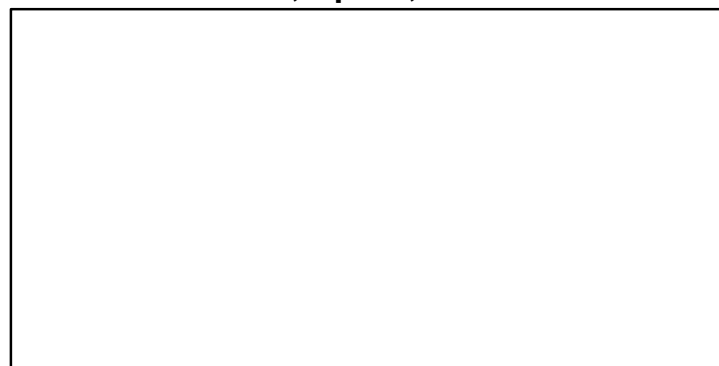


Atlantic cod Irish Sea [CODIS]

TC-MT, TL-MT, RecC* (1968–2023–ICESIMP2024)



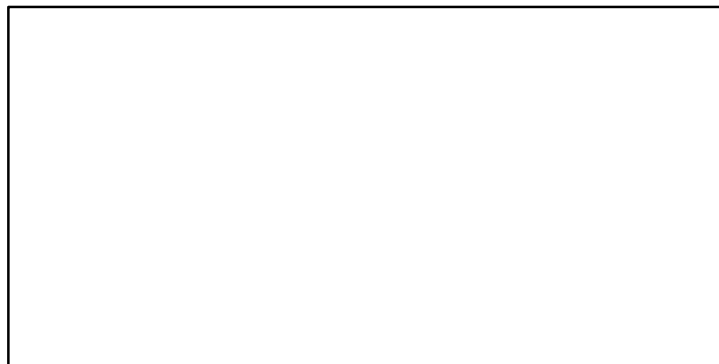
TAC*, Cpair*, Cadv*



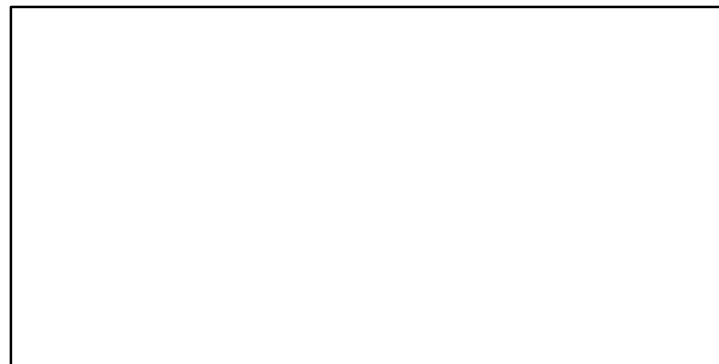
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod Kattegat [CODKAT]

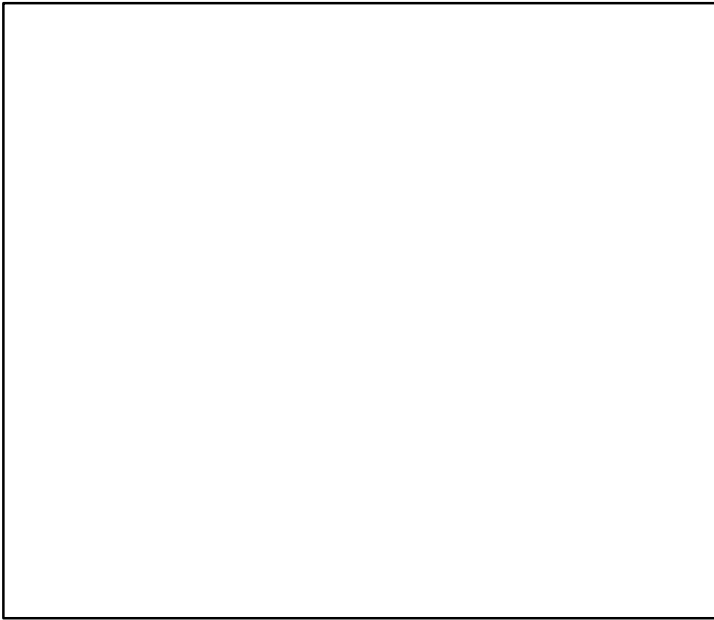
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODKAT-1997-2020-ICESIMP2021-2
Area	Kattegat
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2015, 2016, 2017, 2018, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2012	6400
Flim	-	-	-
ERlim	-	-	-

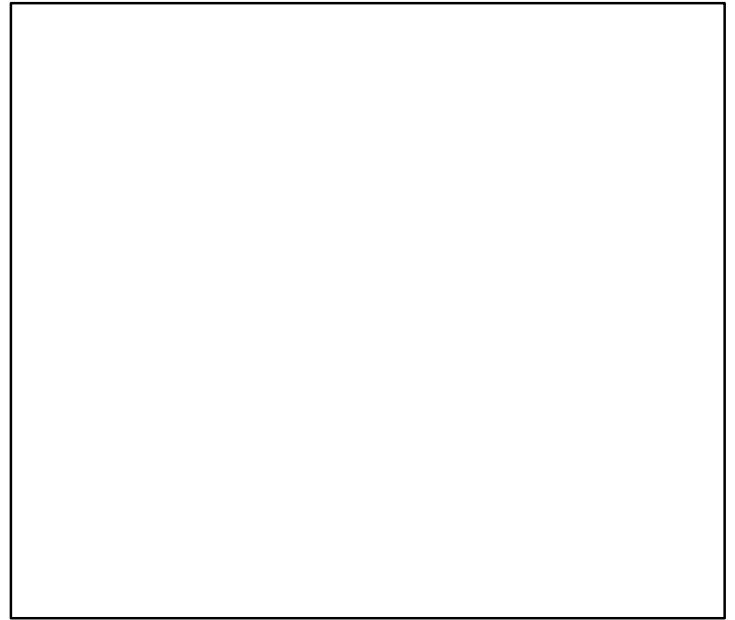
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2018	0.535	Both	-
SSB	SSB-relative	2020	0.129	-	-
TN	-	-	-	-	-
R	R-relative	2020	0.49	-	-
F	F-relative	2019	1.079	-	-
ER	ER-ratio	2012	0.101	-	-
TC	TC-MT	2020	123		
TL	TL-MT	2020	83		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Kattegat [CODKAT]

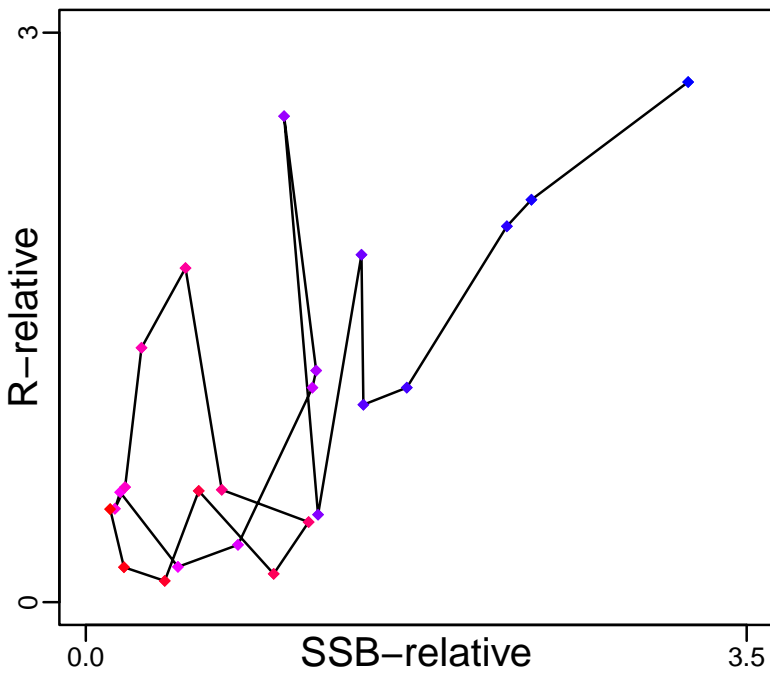
Kobe MSY*



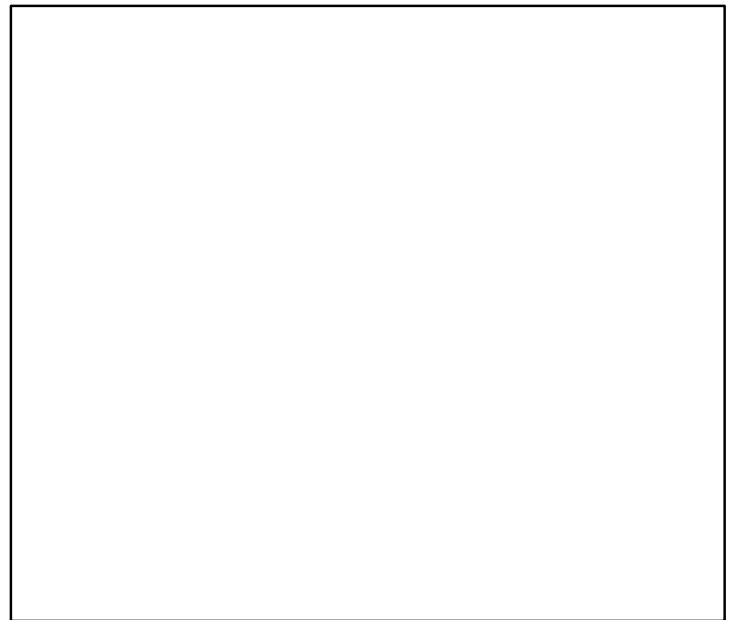
Kobe MGT*



Spawner Recruit (1997–2020–ICESIMP2021–2)



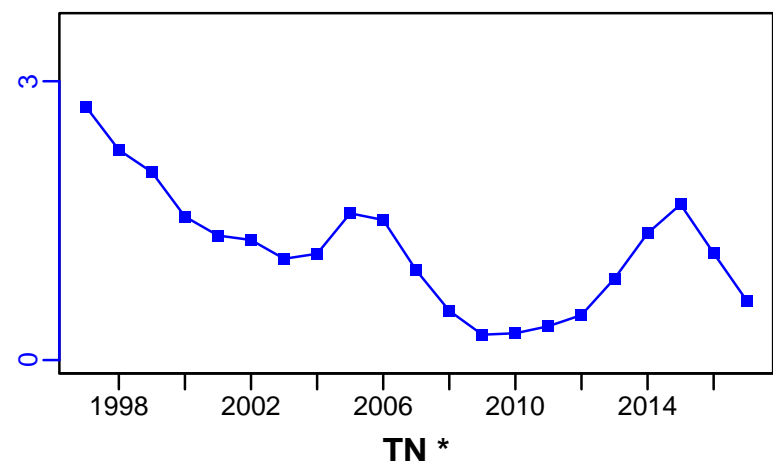
Production*



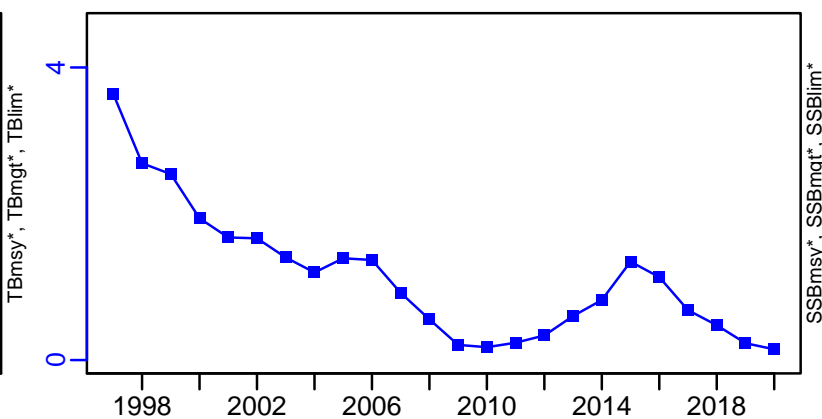
◆ Start Year ◆ End Year * No Data

Atlantic cod Kattegat [CODKAT]

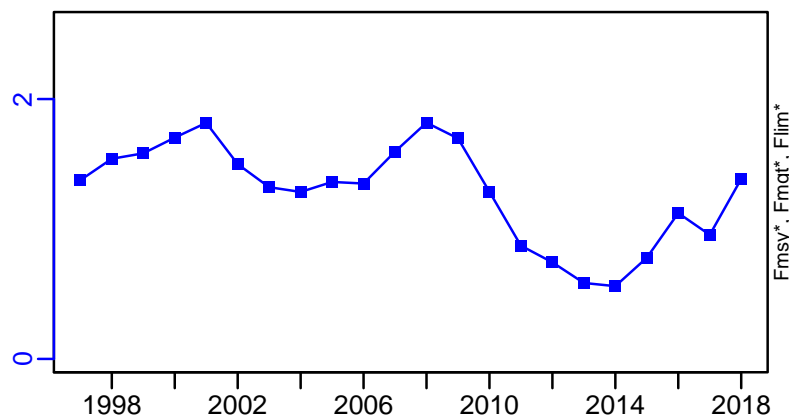
TB-relative (1996–2018–ICESIMP2018)



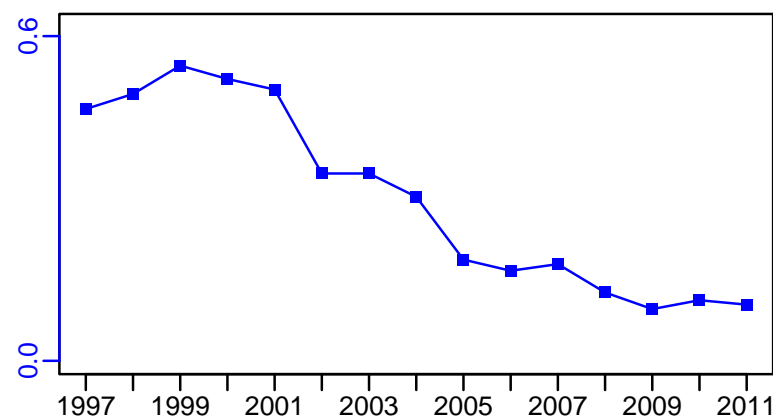
SSB-relative (1997–2020–ICESIMP2021–2)



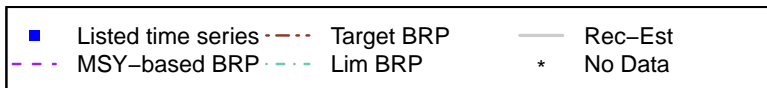
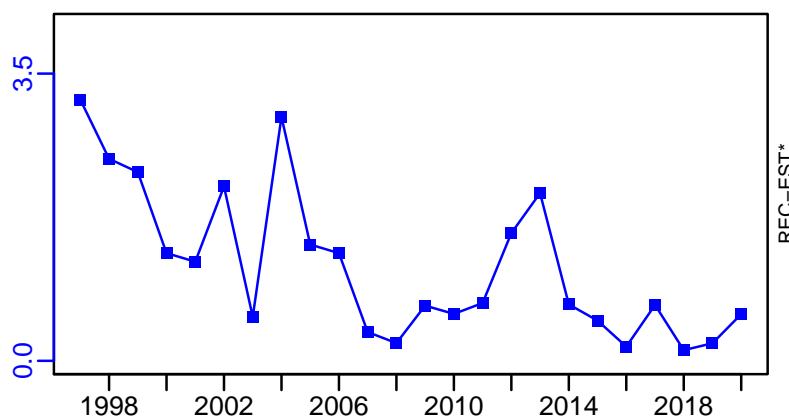
F-relative (1996–2019–ICESIMP2021)



ER-ratio (1971–2012–CHING)

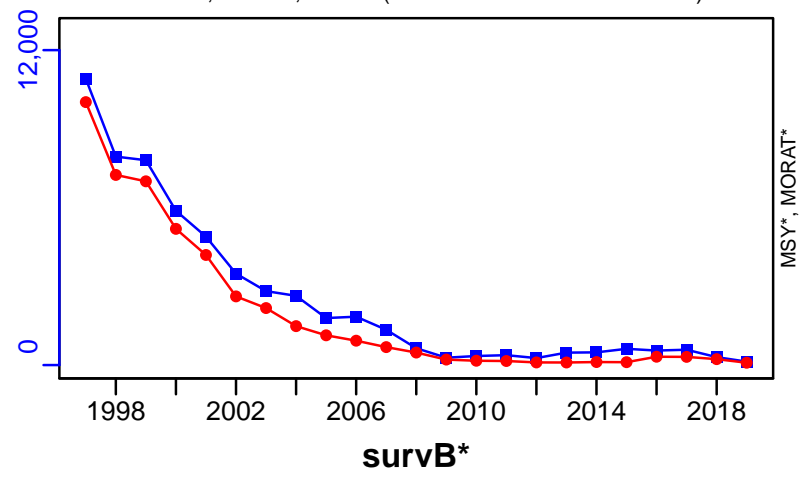


R-relative (1997–2020–ICESIMP2021–2)

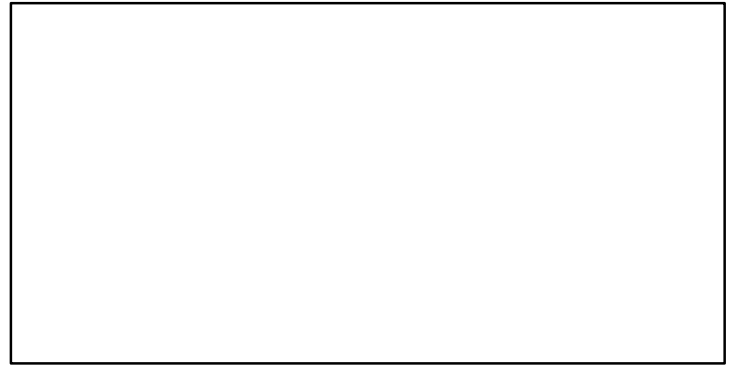


Atlantic cod Kattegat [CODKAT]

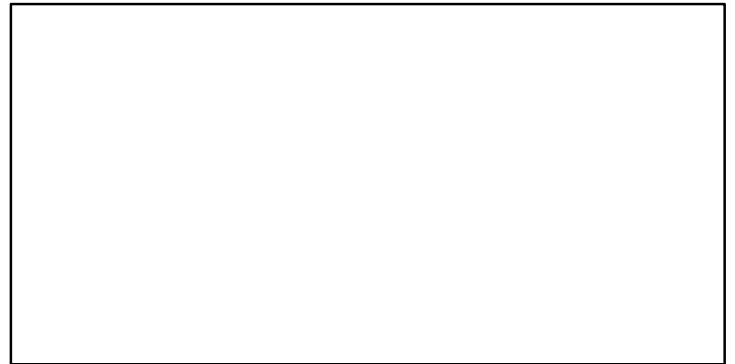
TC-MT, TL-MT, RecC* (1997-2020-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



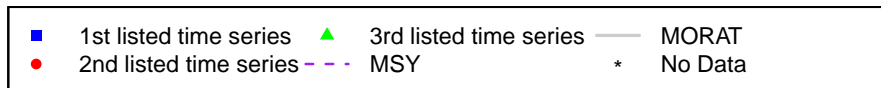
CPUE*



EFFORT*



CdivMSY*



Atlantic cod North-East Arctic [CODNEAR]

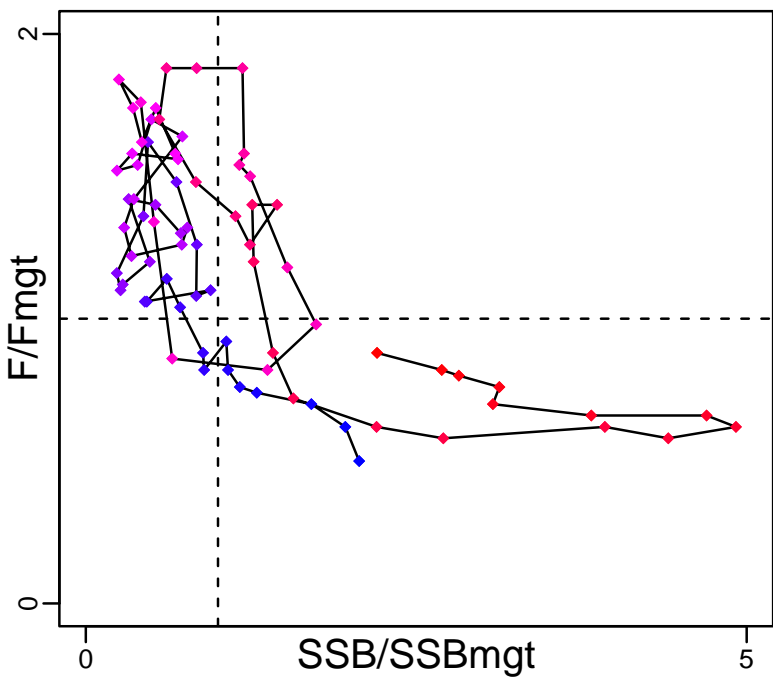
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	AFWG-CODNEAR-1943-2021-ICESIMP2024
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Arctic Fisheries Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2021, 2011, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.4
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	460,000
Fmgt	Fmgt-1/yr	2021	0.5
ERmgt	ERmgt-ratio	2020	0.4
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	220,000
Flim	Flim-1/yr	2021	0.74
ERlim	ERlim-ratio	2020	0.74

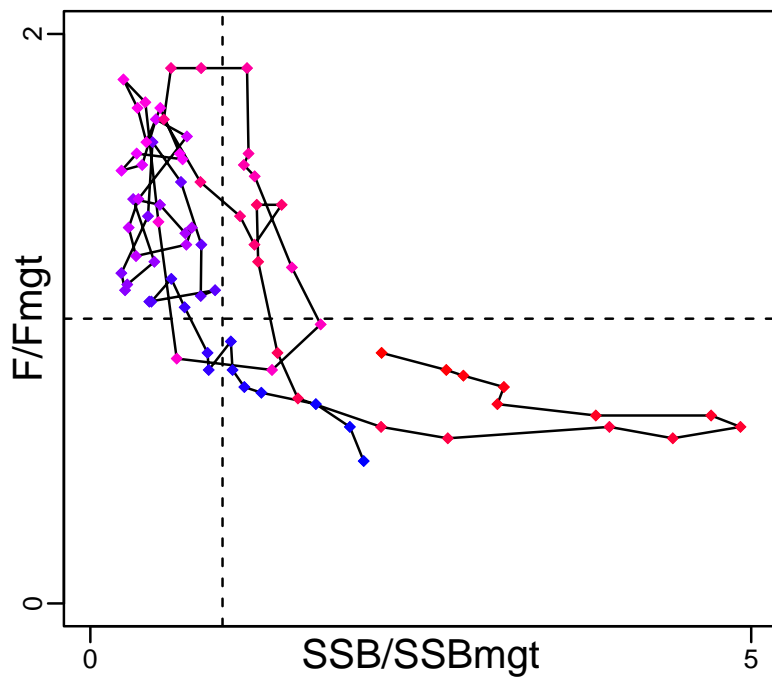
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2,612,690	-	-
SSB	SSB-MT	2021	902,035	-	-
TN	-	-	-	-	-
R	R-E00	2021	557,000	-	3
F	F-1/yr	2021	0.44	-	5 to 10
ER	ER-ratio	2020	0.338	-	-
TC	TC-MT	2021	692,903		
TL	TL-MT	2021	692,903		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.002		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.961		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.88		
ER/ERmgt	-	-	-		

Atlantic cod North-East Arctic [CODNEAR]

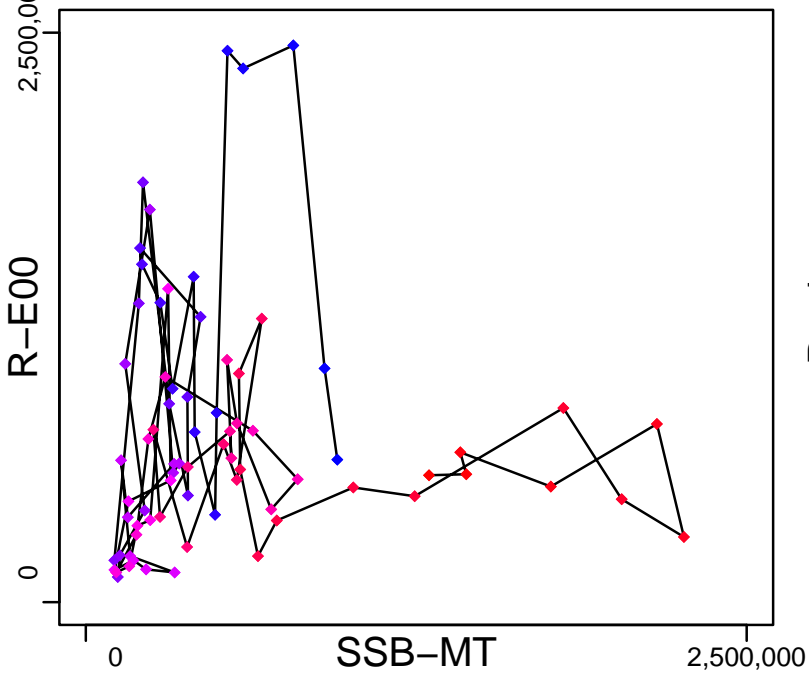
Kobe MSYpref (1943–2021–ICESIMP2024)



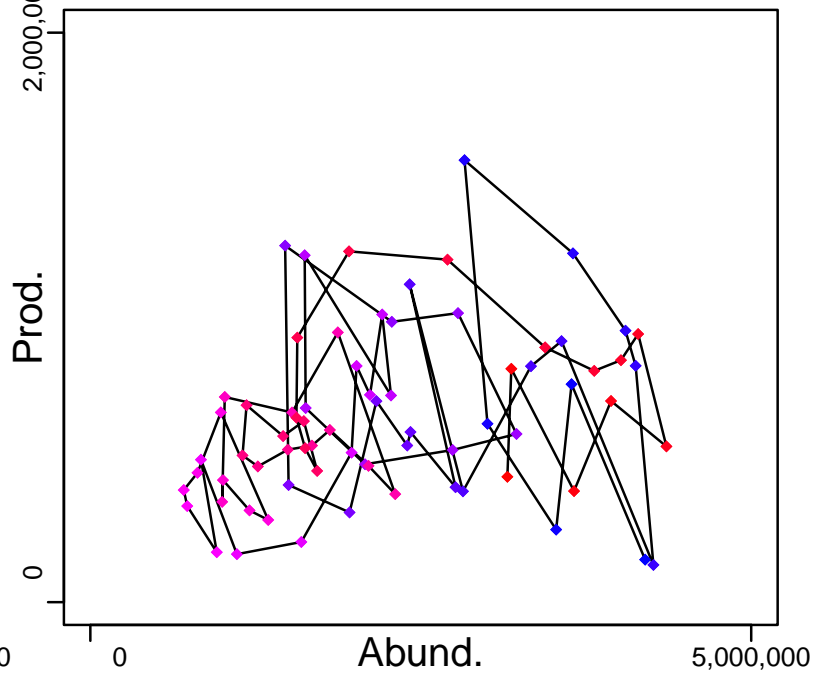
Kobe MGTpref (1943–2021–ICESIMP2024)



Spawner Recruit (1943–2021–ICESIMP2024)

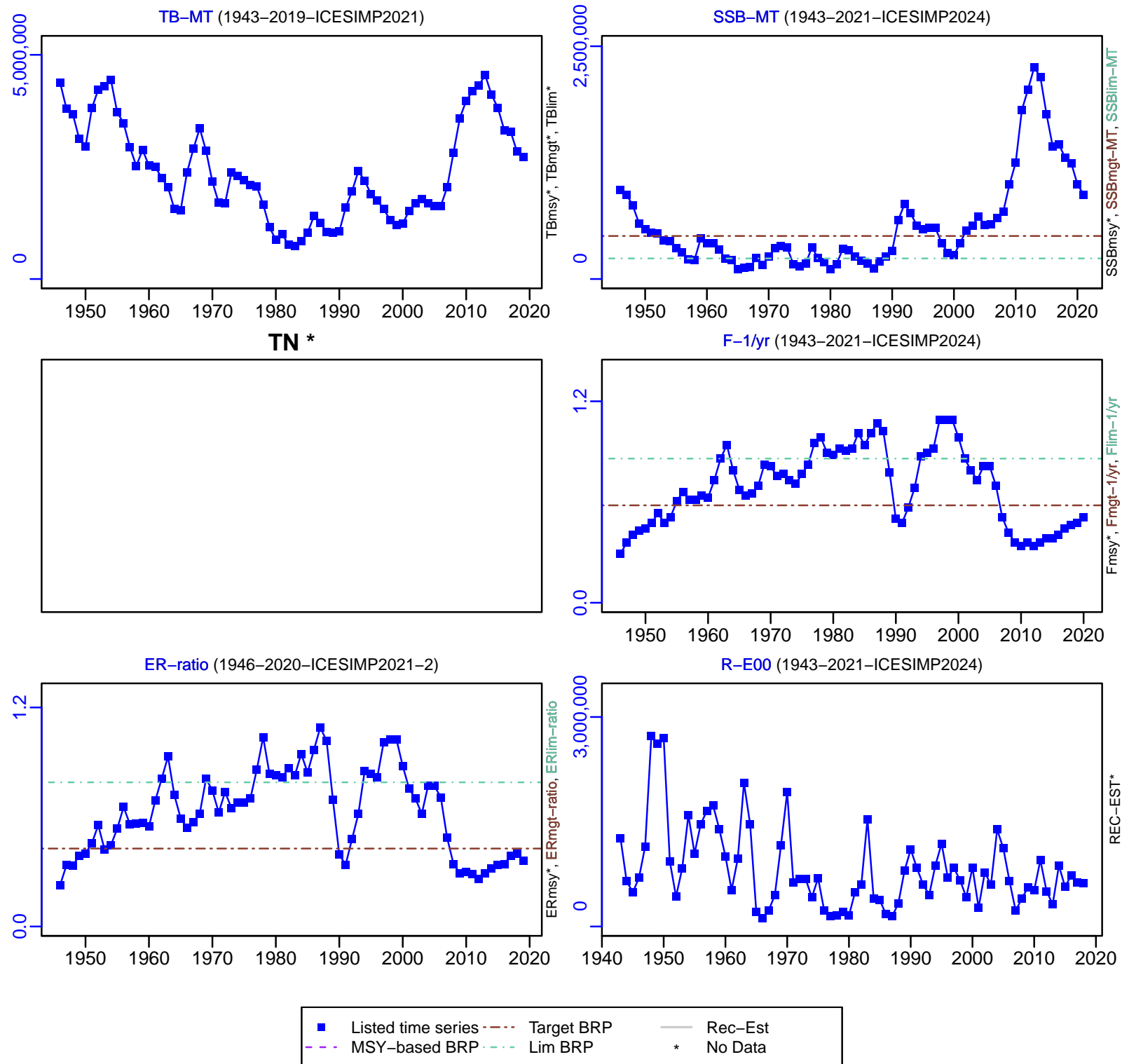


Production (1943–2019–ICESIMP2021)



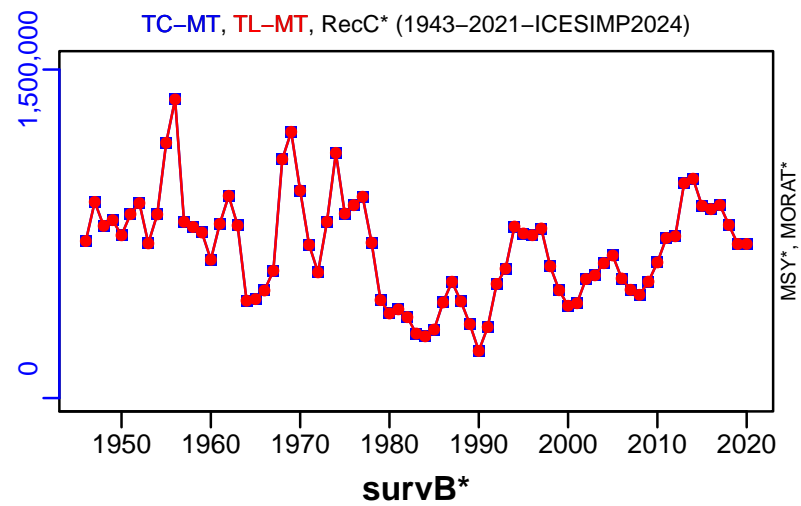
◆ Start Year ◆ End Year * No Data

Atlantic cod North-East Arctic [CODNEAR]

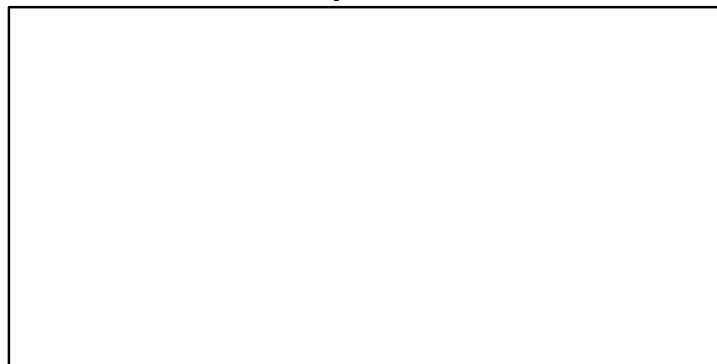


Atlantic cod North-East Arctic [CODNEAR]

TC-MT, TL-MT, RecC* (1943-2021-ICESIMP2024)



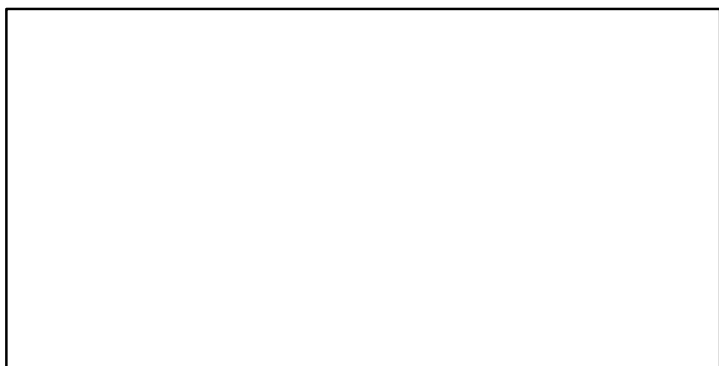
TAC*, Cpair*, Cadv*



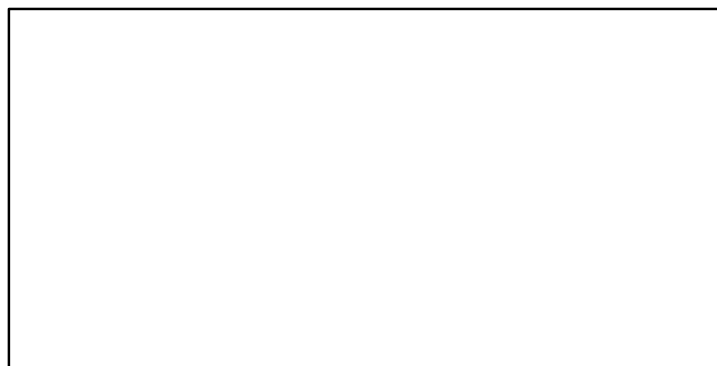
CPUE*



EFFORT*



CdivMSY*



■ 1st listed time series
 ▲ 3rd listed time series
 — MORAT
 * No Data

● 2nd listed time series
 - - MSY

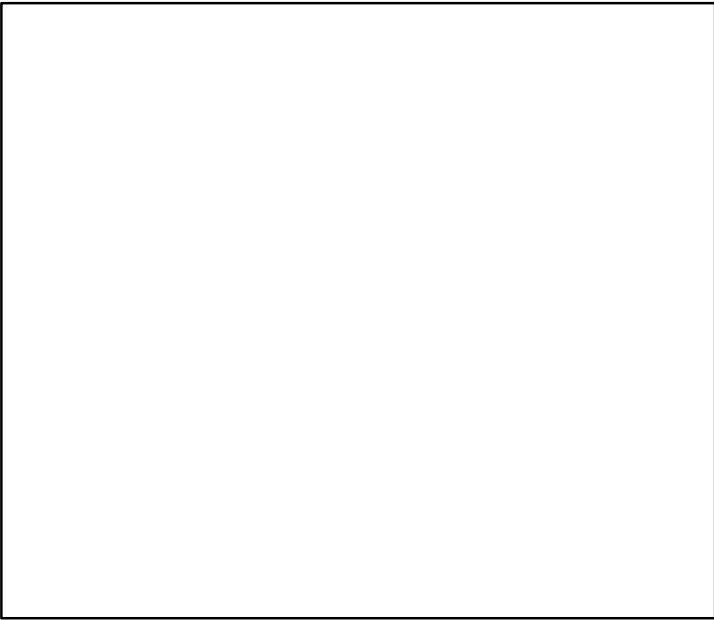
Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	AFWG-CODNEARNCW-1984-2019-ICESIMP2021-2
Area	North-East Arctic (Norwegian coastal waters)
Management Authority	International Council for the Exploration of the Sea
Assessor	Arctic Fisheries Working Group
Asmts in RAM	2016, 2018, 2016, 2017, 2019

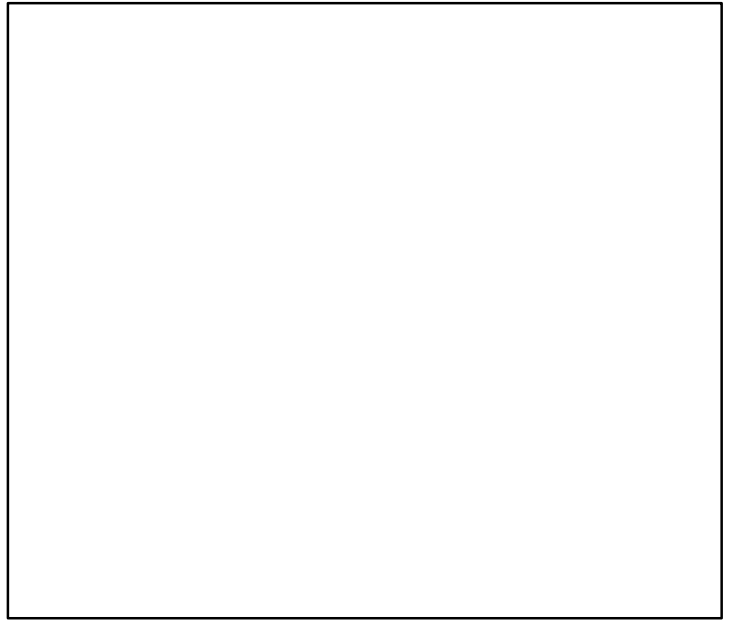
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	60,000
Fmgt	Fmgt-1/yr	2016	0.1
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2019	22,600,000	-	2
F	F-1/yr	2019	0.2	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	52,900		
TL	TL-MT	2019	40,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.31		
ER/ERmgt	-	-	-		

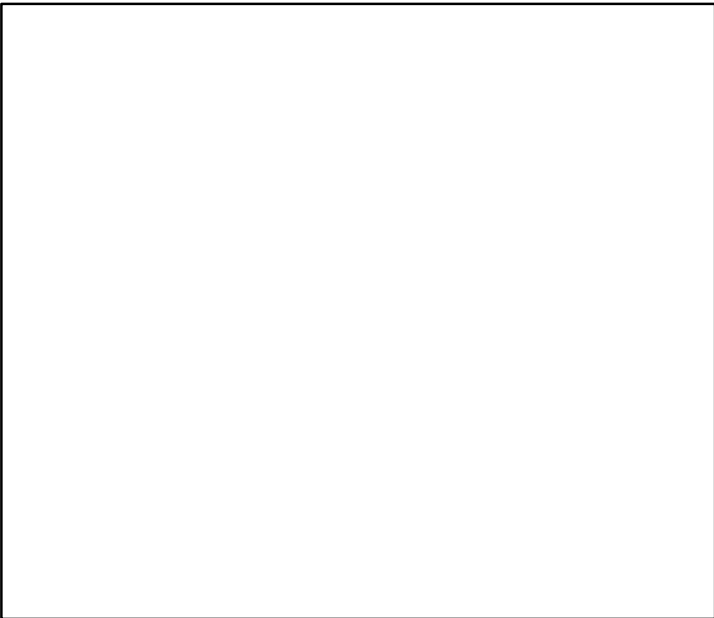
Kobe MSY*



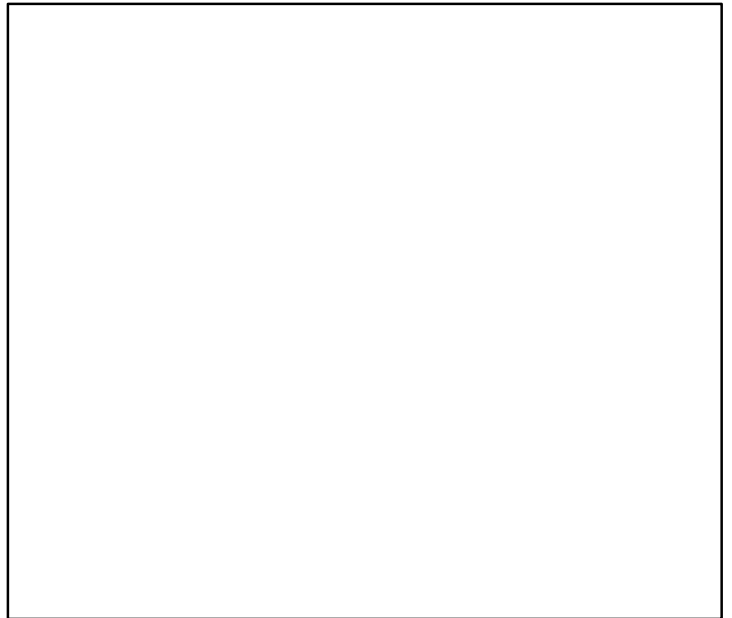
Kobe MGT*



Spawner Recruit*



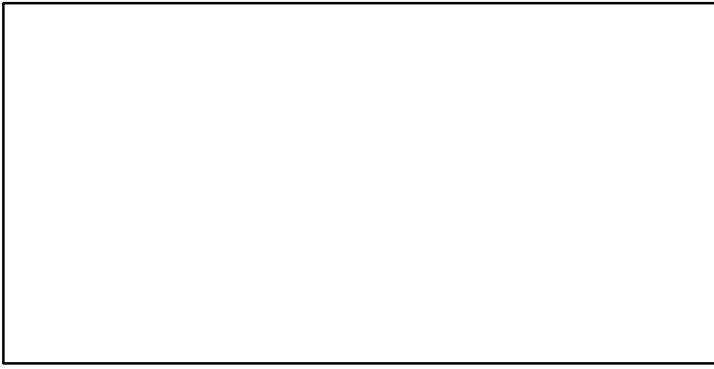
Production*



◆ Start Year ◆ End Year * No Data

Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

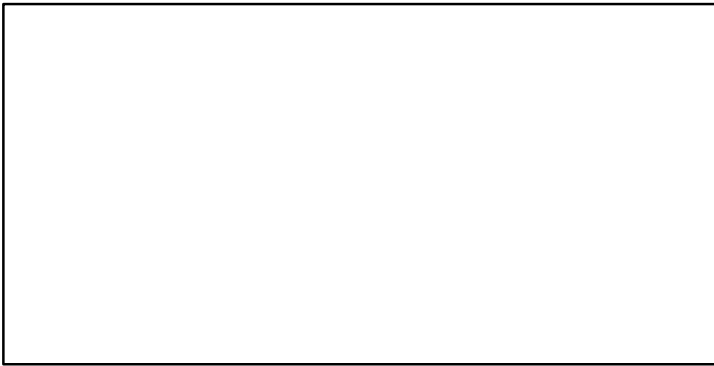
TB*



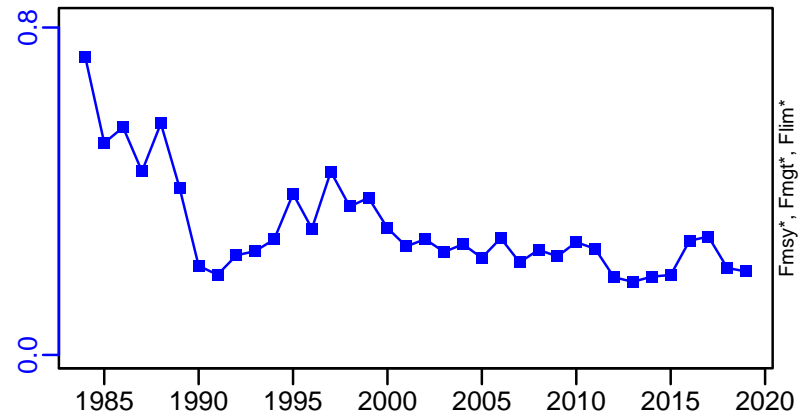
SSB*



TN *



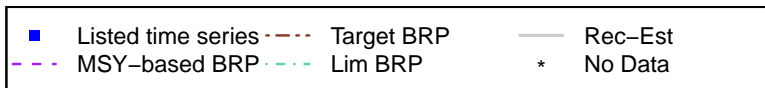
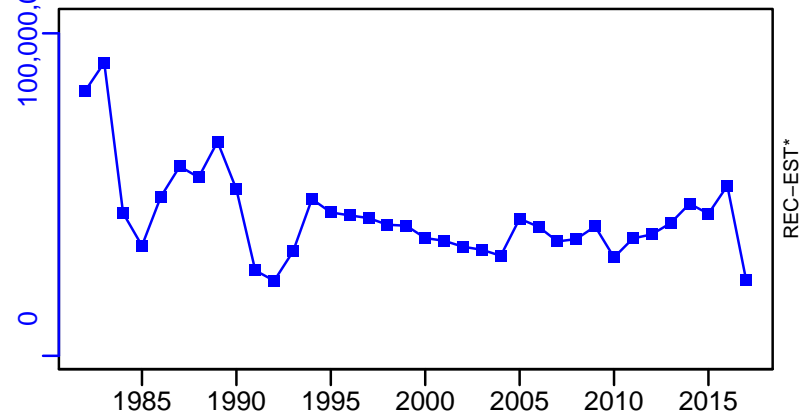
F-1/yr (1984-2019-ICESIMP2021-2)



ER*

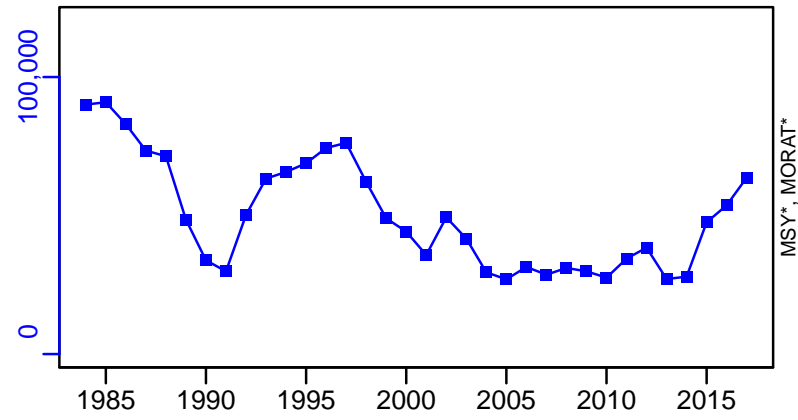


R-E00 (1984-2019-ICESIMP2021-2)

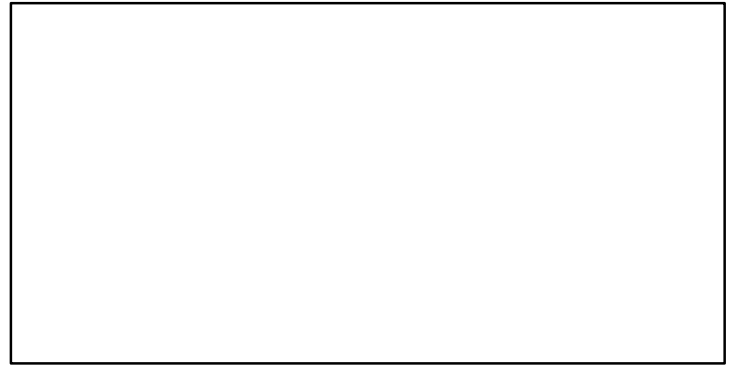


Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

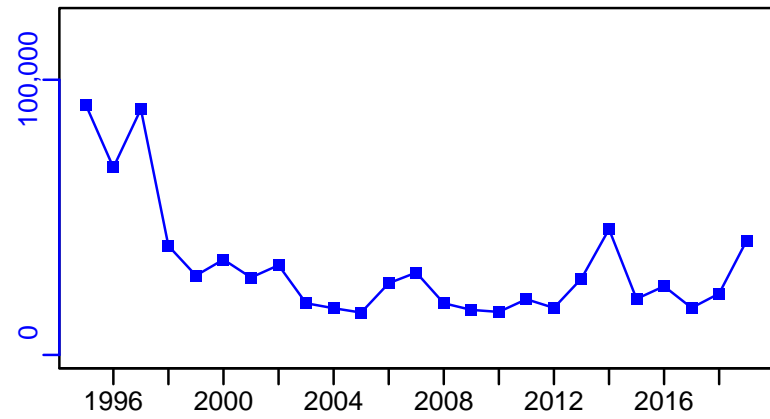
TC-MT, TL*, RecC* (1984–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



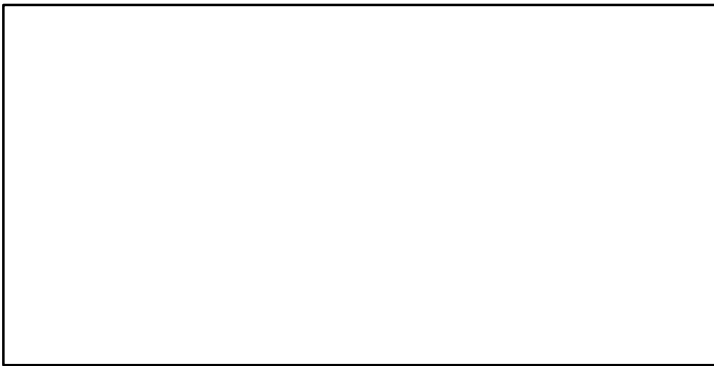
survB-MT (1984–2019–ICESIMP2021–2)



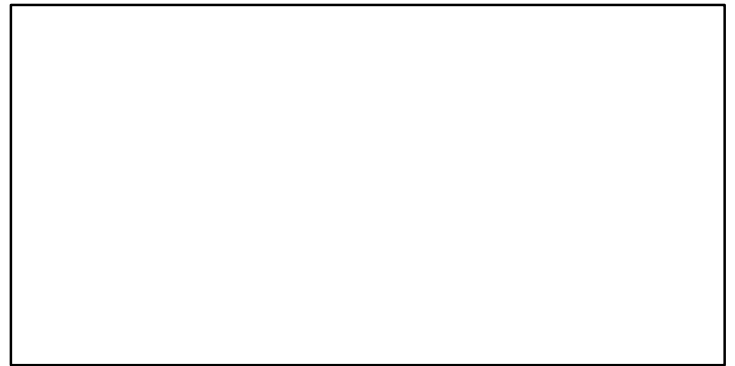
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod West of Scotland [CODVla]

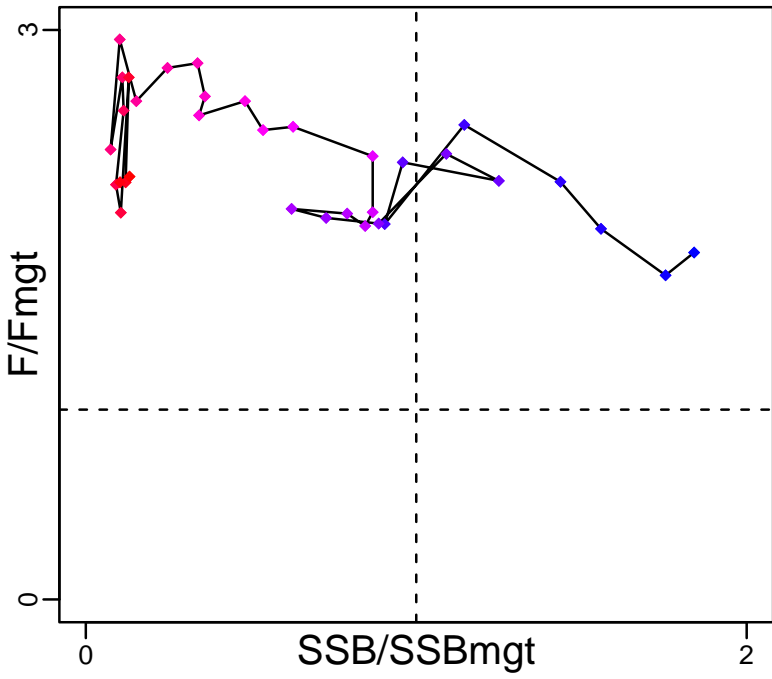
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVla-1980-2022-ICESIMP2024
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2017, 2019, 2022, 2012, 2016, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2022	0.3
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	22,000
Fmgt	Fmgt-1/yr	2022	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	14,376
Flim	Flim-1/yr	2022	0.73
ERlim	-	-	-

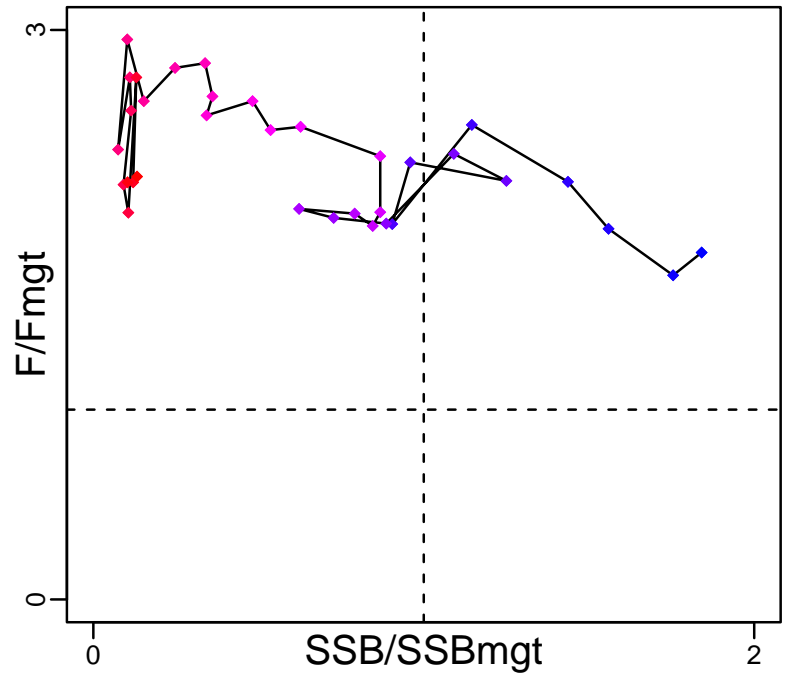
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	4250	Both	-
SSB	SSB-MT	2022	3288	-	-
TN	-	-	-	-	-
R	R-E00	2022	2226	-	1
F	F-1/yr	2022	0.747	-	2 to 5
ER	ER-calc-ratio	2017	0.419	-	-
TC	TC-MT	2020	2260		
TL	TL-MT	2022	1241		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	2.49		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.153		
F/Fmgt	F-1/yr/Fmgt-1/yr	2022	2.49		
ER/ERmgt	-	-	-		

Atlantic cod West of Scotland [CODVla]

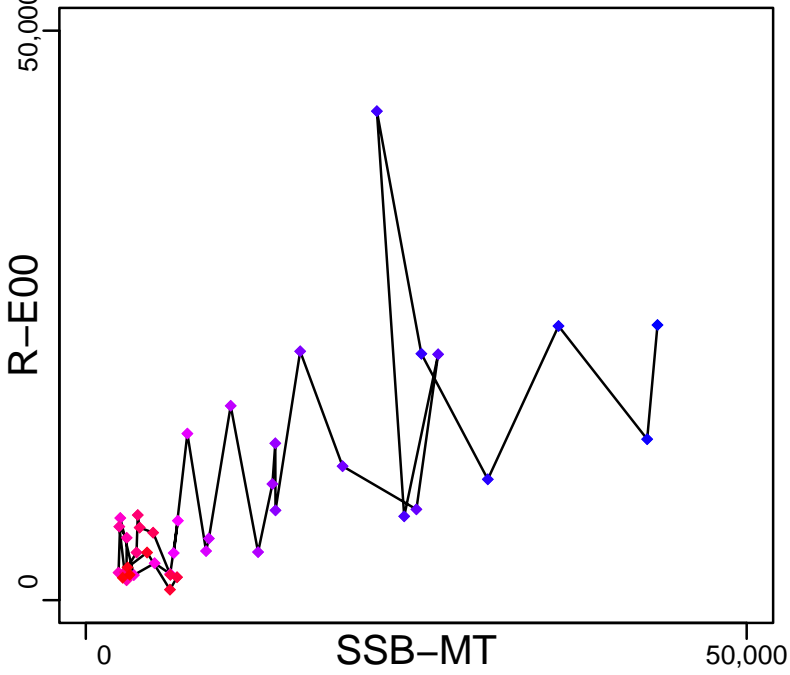
Kobe MSYpref (1980–2015–ICESIMP2016)



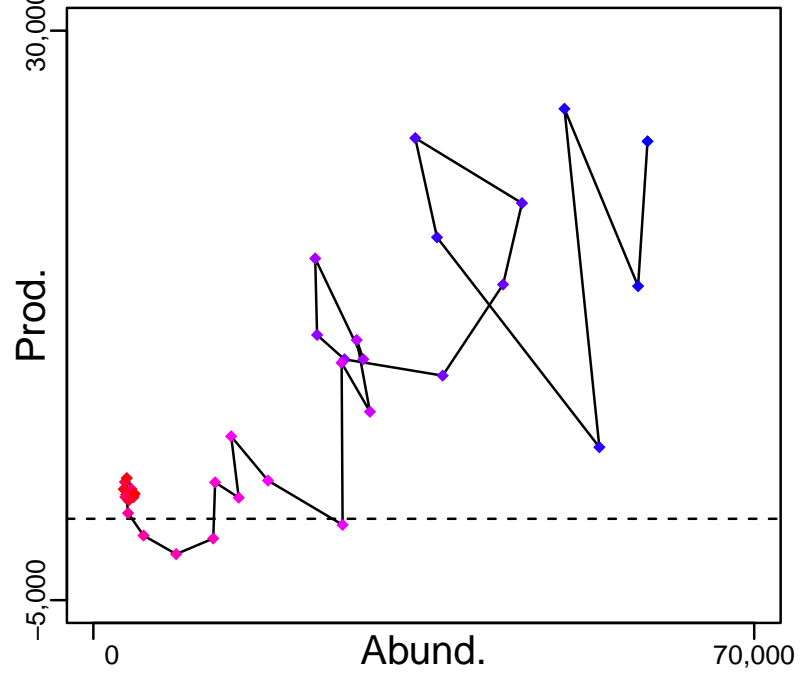
Kobe MGTpref (1980–2015–ICESIMP2016)



Spawner Recruit (1980–2022–ICESIMP2024)



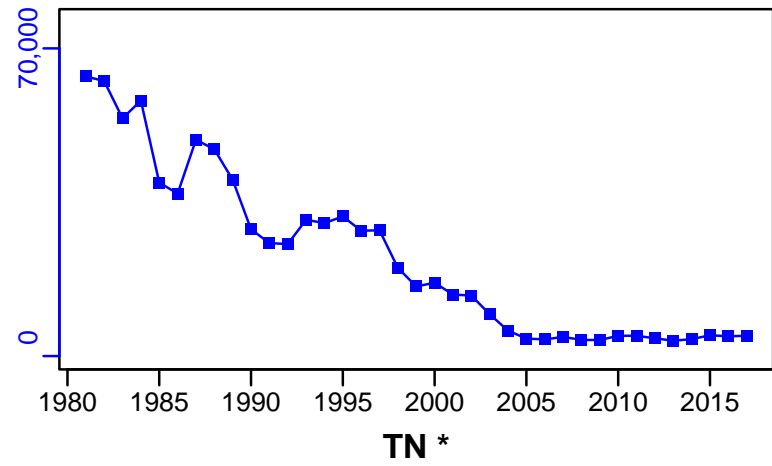
Production (1980–2017–ICESIMP2018)



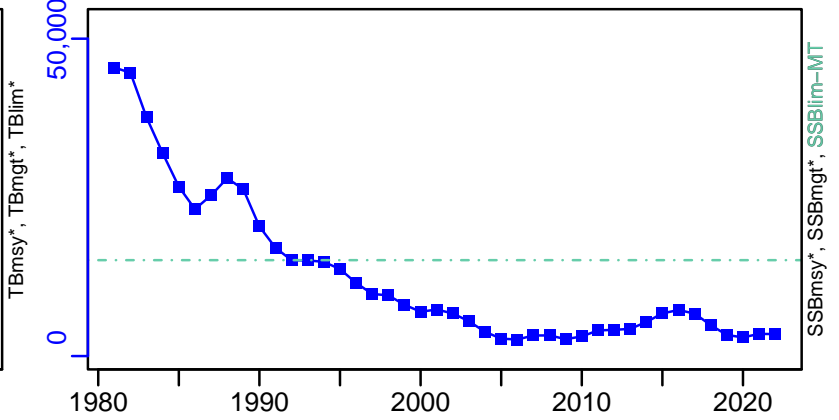
◆ Start Year ◆ End Year * No Data

Atlantic cod West of Scotland [CODVla]

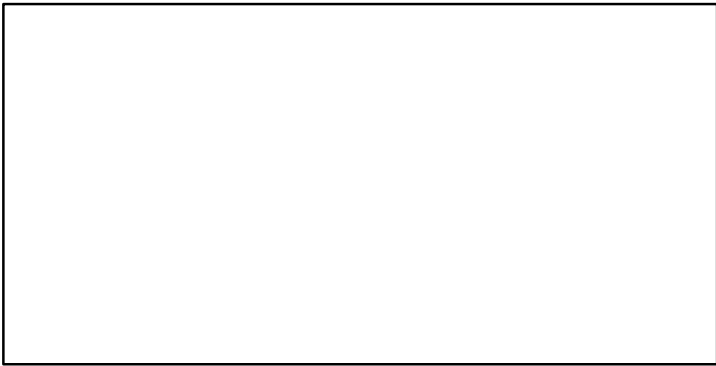
TB-MT (1980–2017–ICESIMP2018)



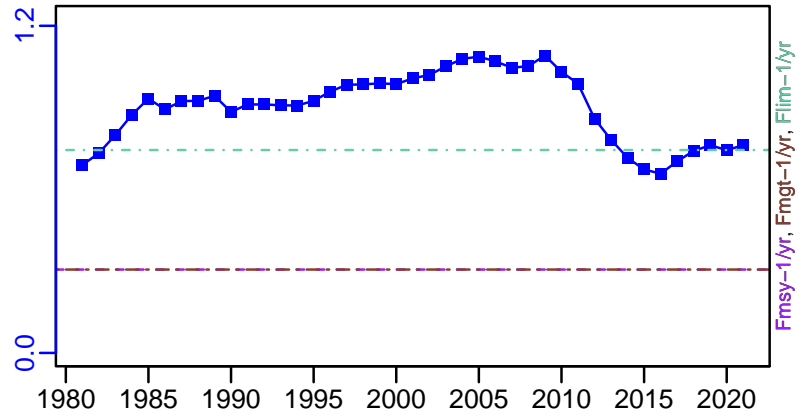
SSB-MT (1980–2022–ICESIMP2024)



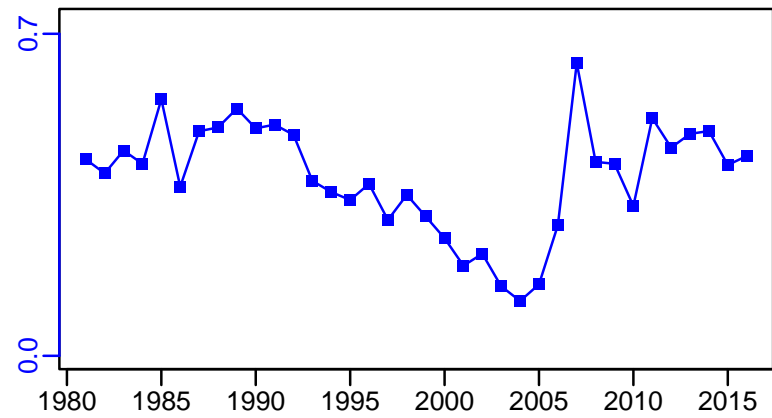
TN *



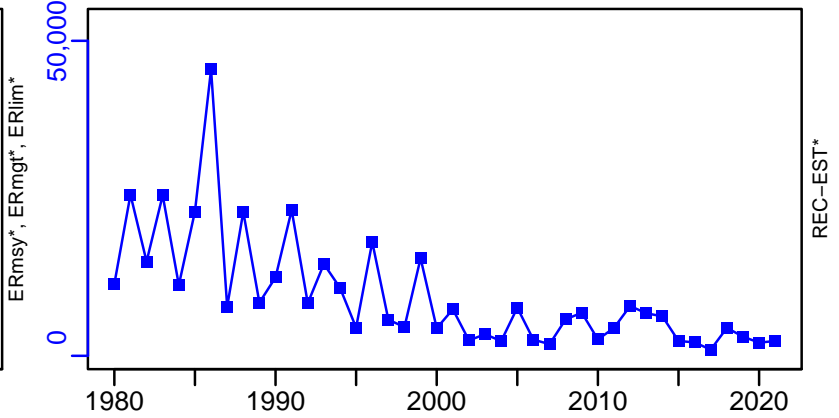
F-1/yr (1980–2022–ICESIMP2024)



ER-calc-ratio (1980–2017–ICESIMP2018)



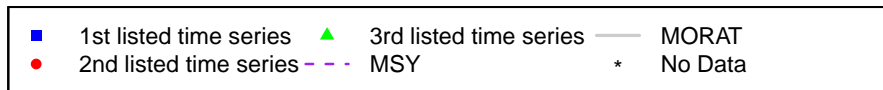
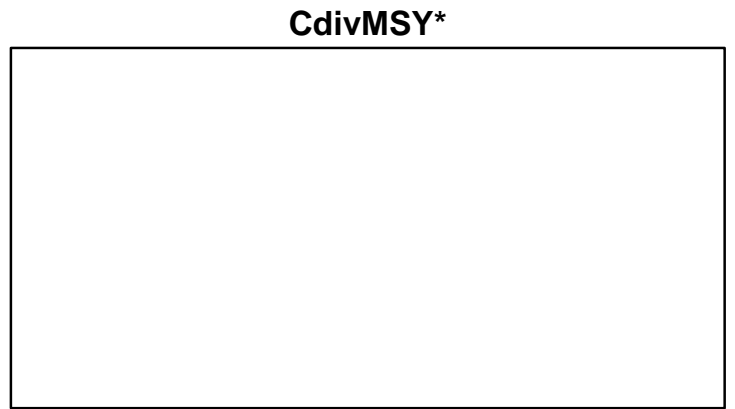
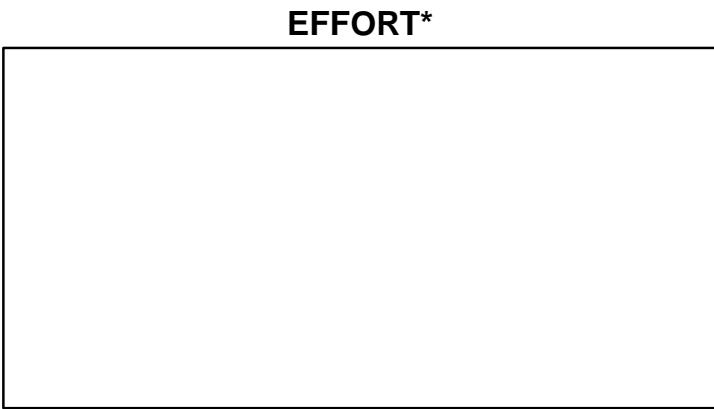
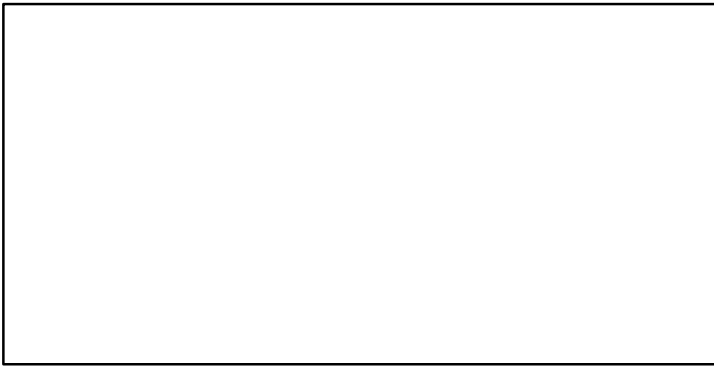
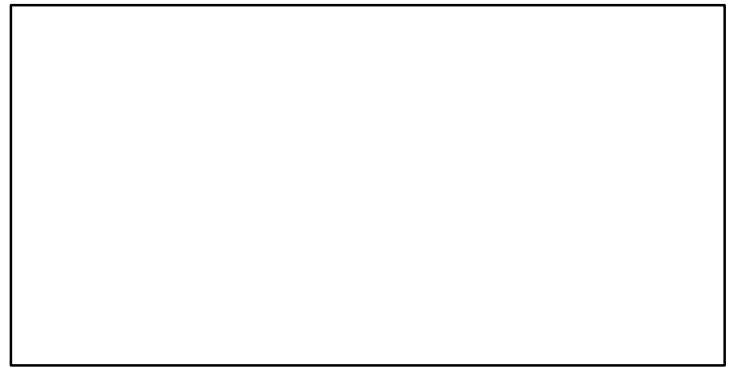
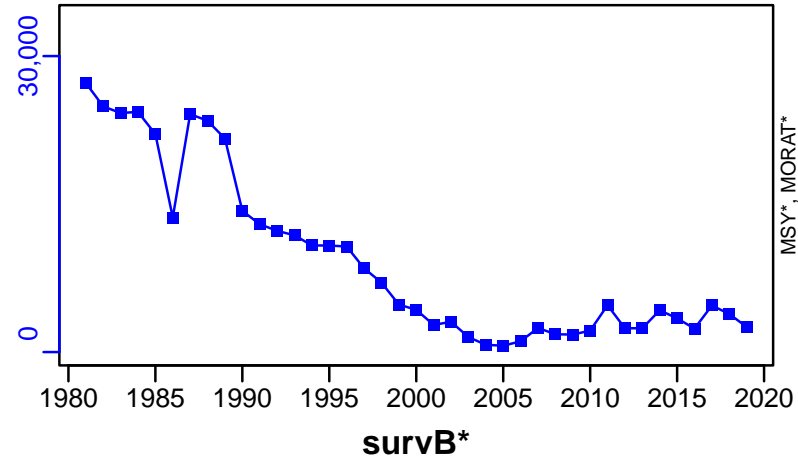
R-E00 (1980–2022–ICESIMP2024)



Atlantic cod West of Scotland [CODVla]

TC-MT, TL*, RecC* (1981-2020-ICESIMP2021-2)

TAC*, Cpair*, Cadv*



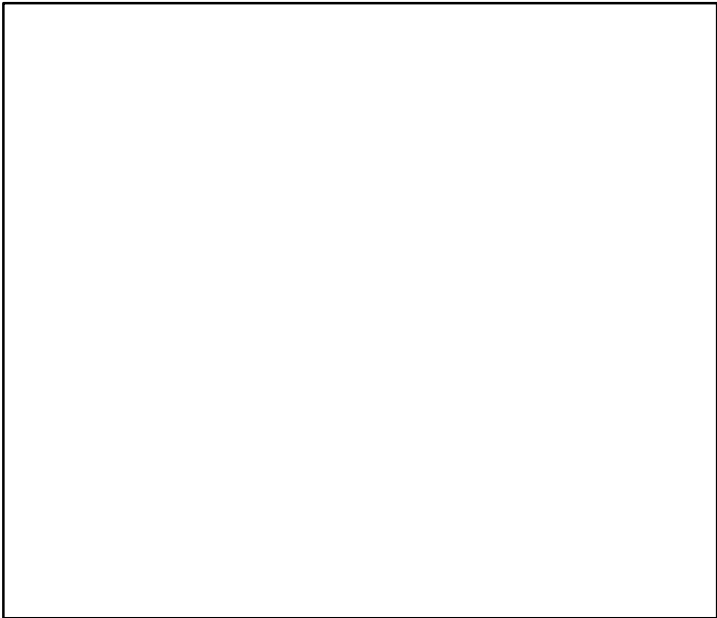
Atlantic cod Rockall Bank [CODVlb]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVlb-1984-2019-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	2014, 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	-	-	-		
TL	TL-MT	2019	68		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

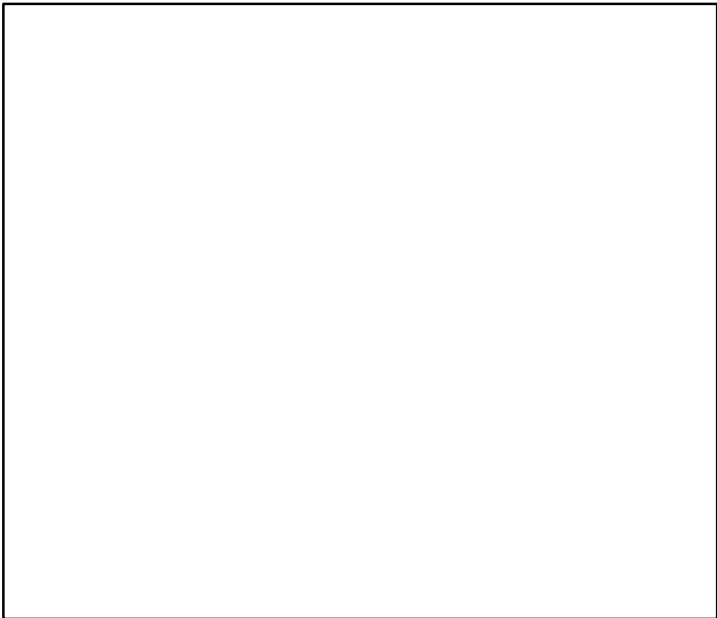
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Atlantic cod Rockall Bank [CODVlb]

TB*



SSB*



TN *



F*



ER*

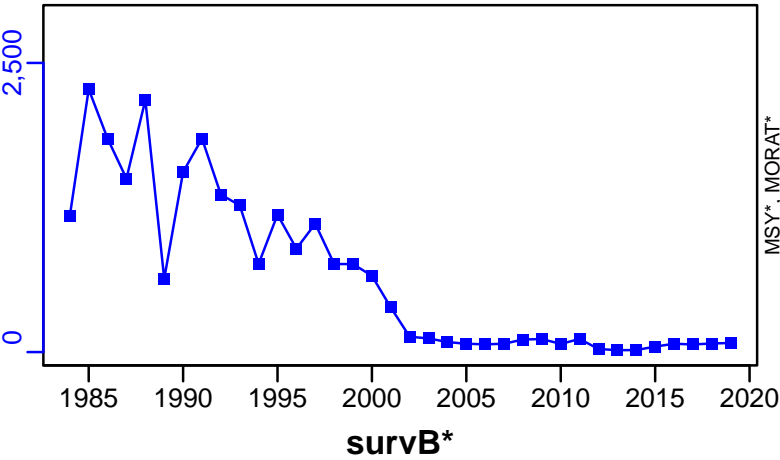


Recruits*



Atlantic cod Rockall Bank [CODVlb]

TL-MT, TC*, RecC* (1984-2019-ICESIMP2021-2)



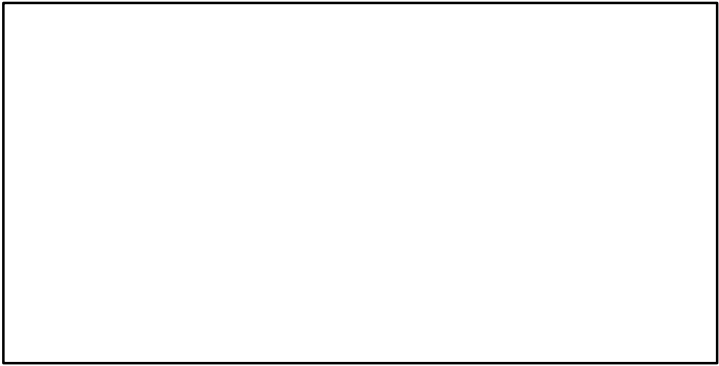
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Atlantic cod Celtic Sea [CODVilek]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVilek-1980-2021-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	2012, 2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.29
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	10,300
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	4200
Flim	Flim-1/yr	2021	1.13
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2678	-	-
SSB	SSB-MT	2021	1710	-	-
TN	-	-	-	-	-
R	R-E00	2021	1,530,000	-	1
F	F-1/yr	2021	1.15	-	-
ER	ER-calc-ratio	2019	0.584	-	-
TC	TC-MT	2021	1150		
TL	TL-MT	2021	922		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	3.966		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	3.966		
ER/ERMgt	-	-	-		

Atlantic cod Celtic Sea [CODVilek]

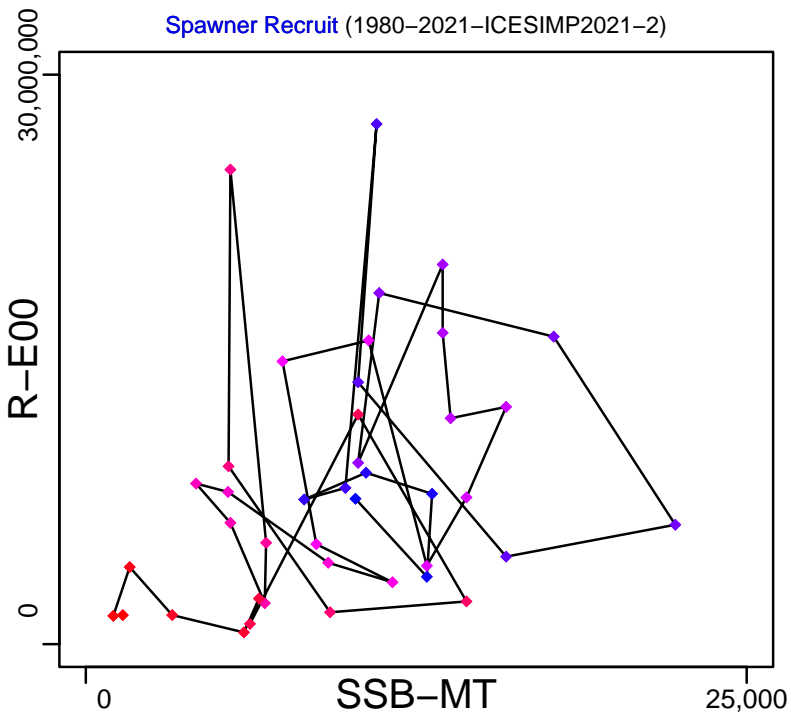
Kobe MSY*



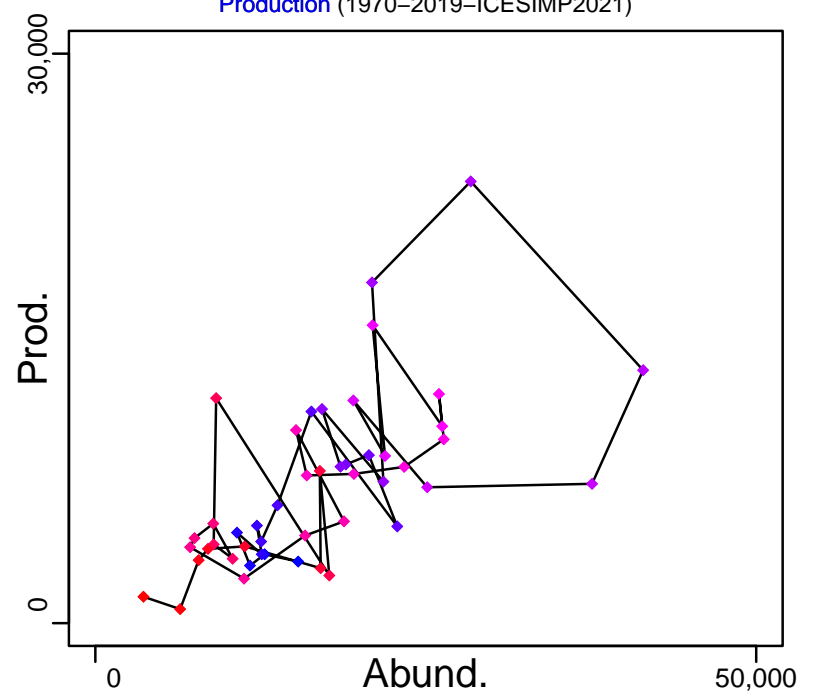
Kobe MGT*



Spawner Recruit (1980–2021–ICESIMP2021–2)



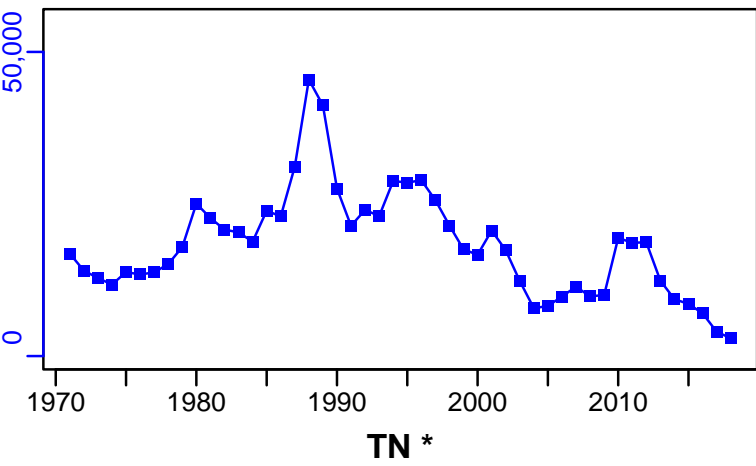
Production (1970–2019–ICESIMP2021)



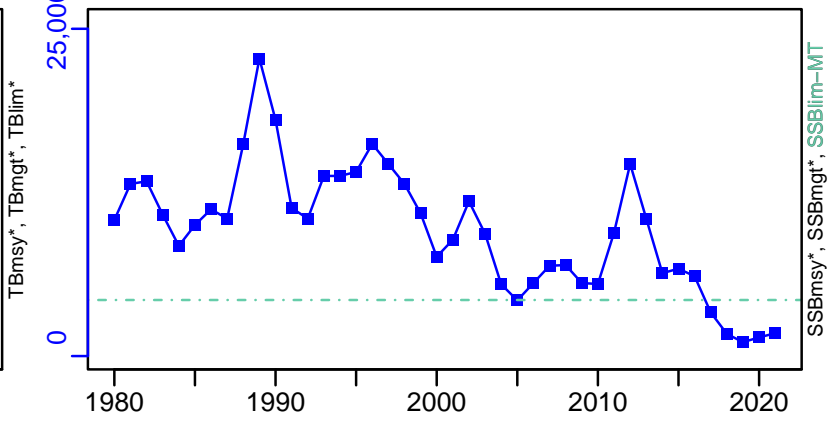
◆ Start Year ◆ End Year * No Data

Atlantic cod Celtic Sea [CODVilek]

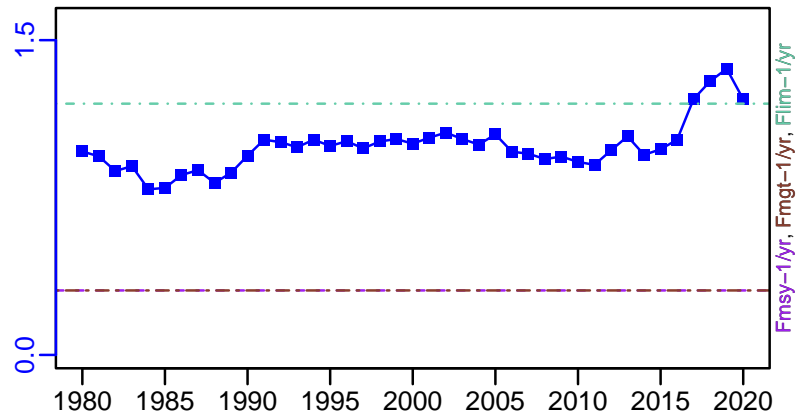
TB-MT (1970–2019–ICESIMP2021)



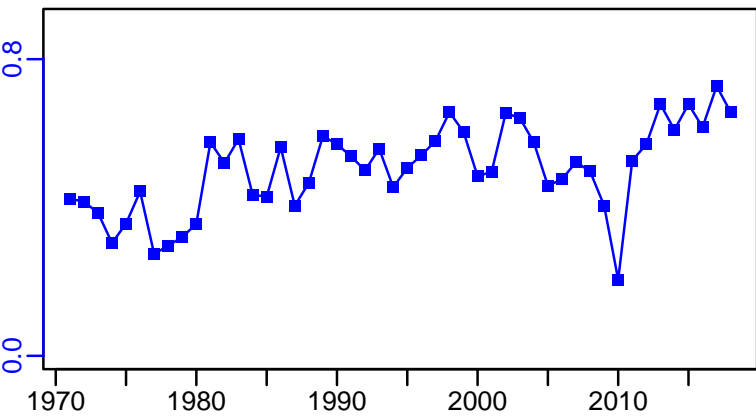
SSB-MT (1980–2021–ICESIMP2021–2)



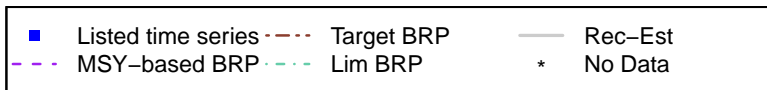
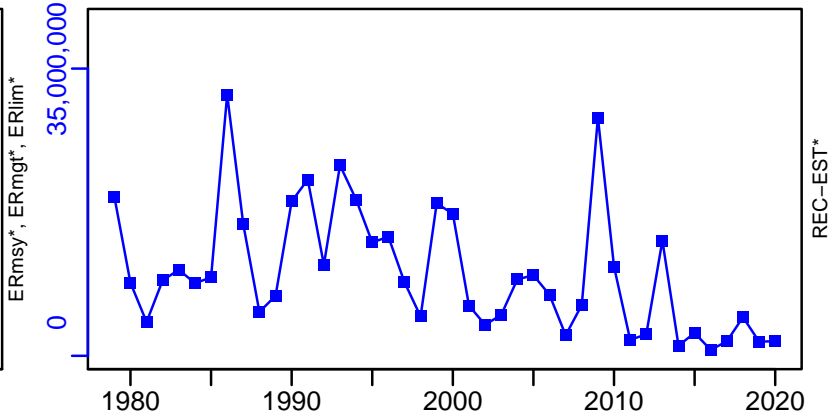
F-1/yr (1980–2021–ICESIMP2021–2)



ER-calc-ratio (1970–2019–ICESIMP2021)

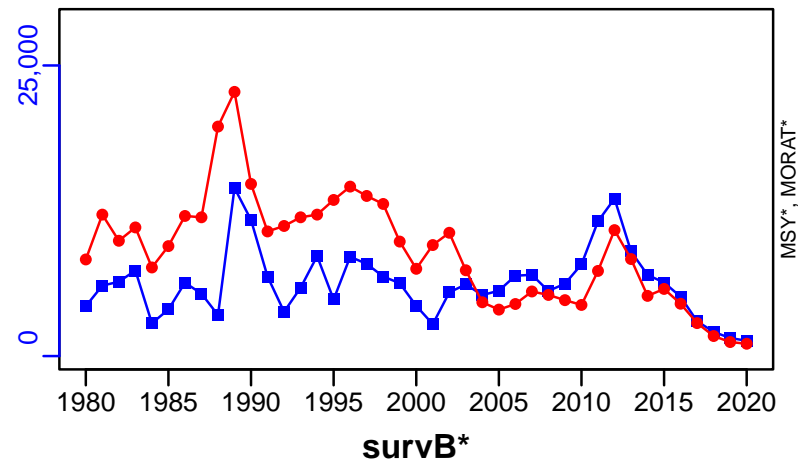


R-E00 (1980–2021–ICESIMP2021–2)

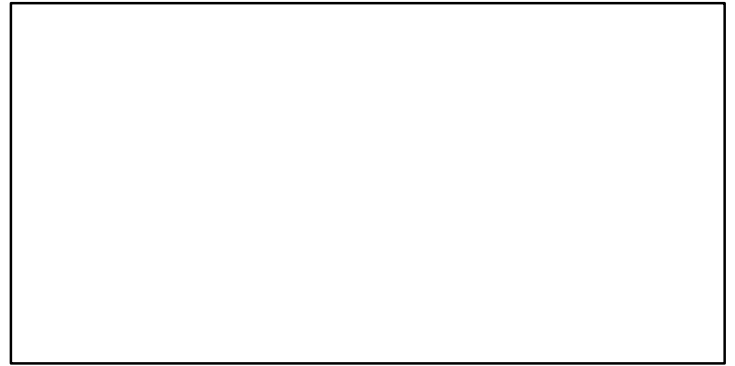


Atlantic cod Celtic Sea [CODVilek]

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



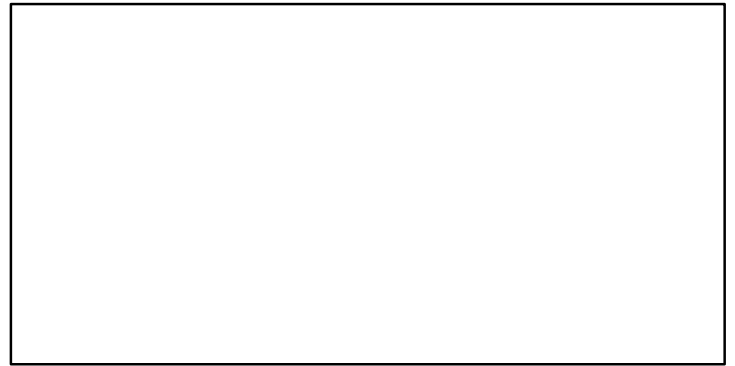
TAC*, Cpair*, Cadv*



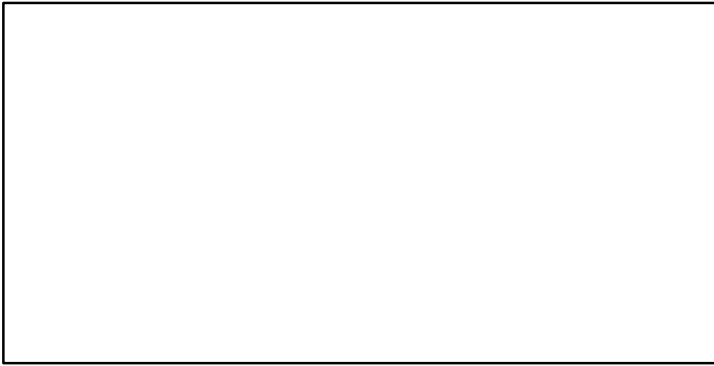
survB*



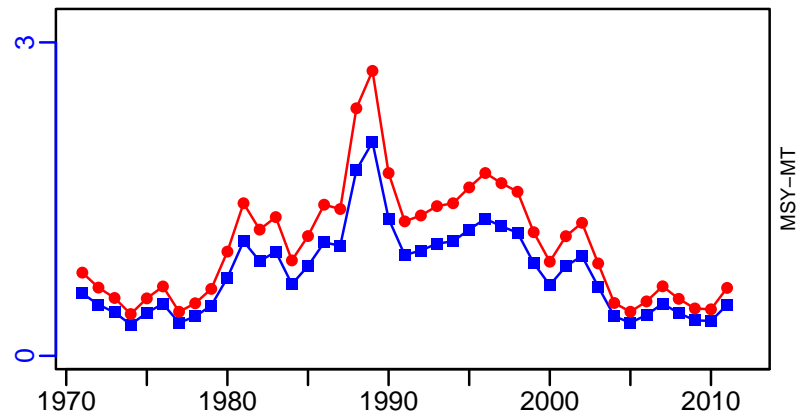
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1971–2012–CHING)



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

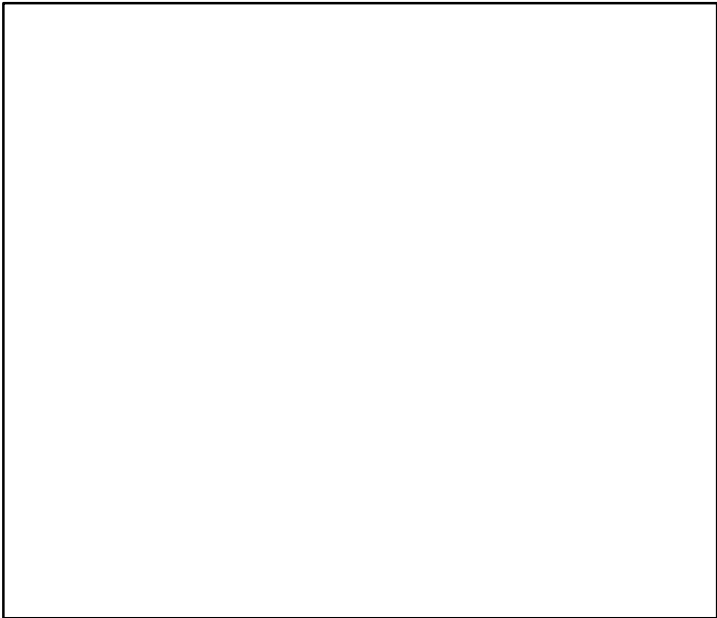
Cusk Western Scotian Shelf [CUSK4X]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	DFO-MAR-CUSK4X-1970-2007-RICARD
Area	Western Scotian Shelf
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	25,790
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	0.058
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2007	47,430
SSB0	-	-	-
MSY	MSY-MT	2007	1483
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	16,900	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.655		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

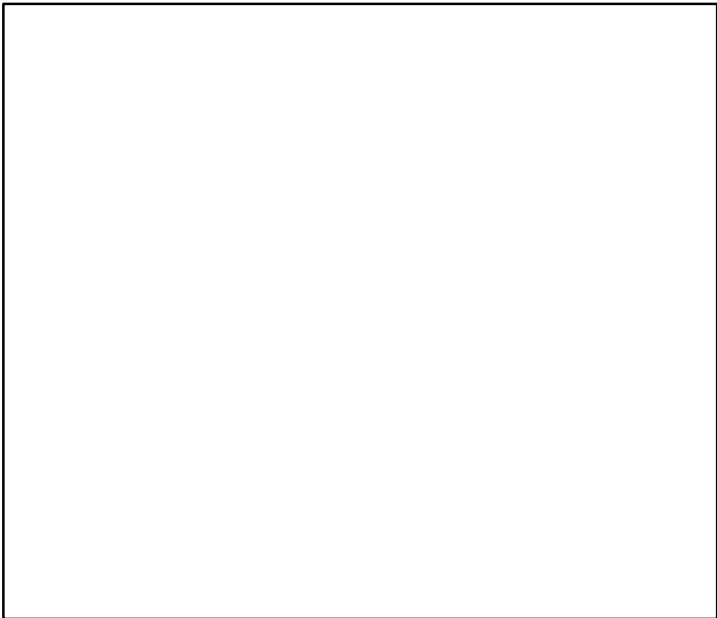
Kobe MSY*



Kobe MGT*



Spawner Recruit*



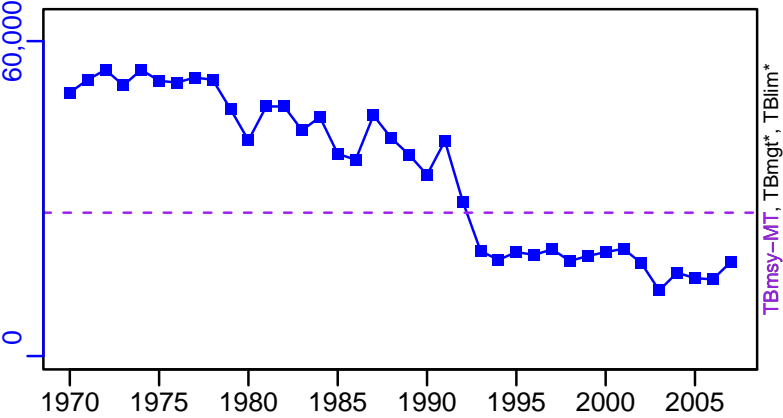
Production*



◆ Start Year ◆ End Year * No Data

Cusk Western Scotian Shelf [CUSK4X]

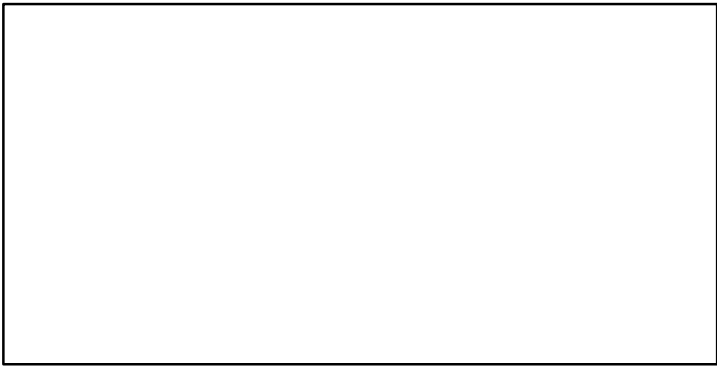
TB-MT (1970-2007-RICARD)



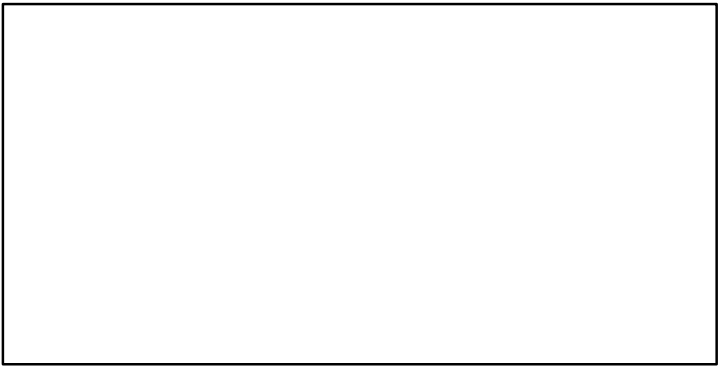
SSB*



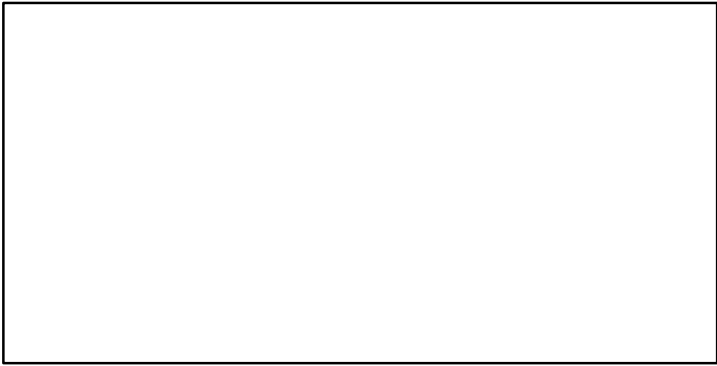
TN *



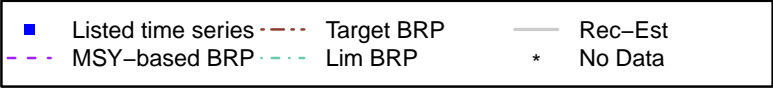
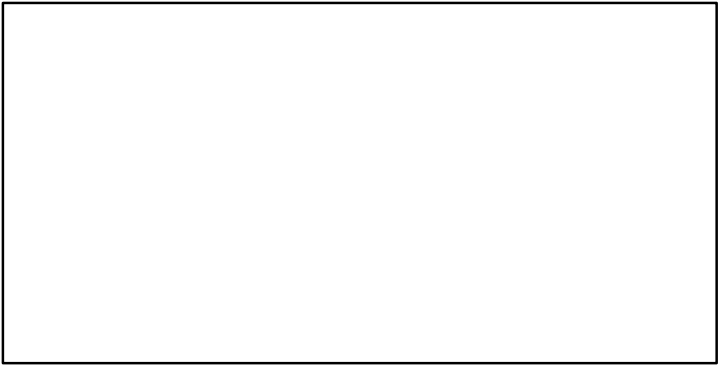
F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



CdivMSY*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

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MORAT

*

No Data

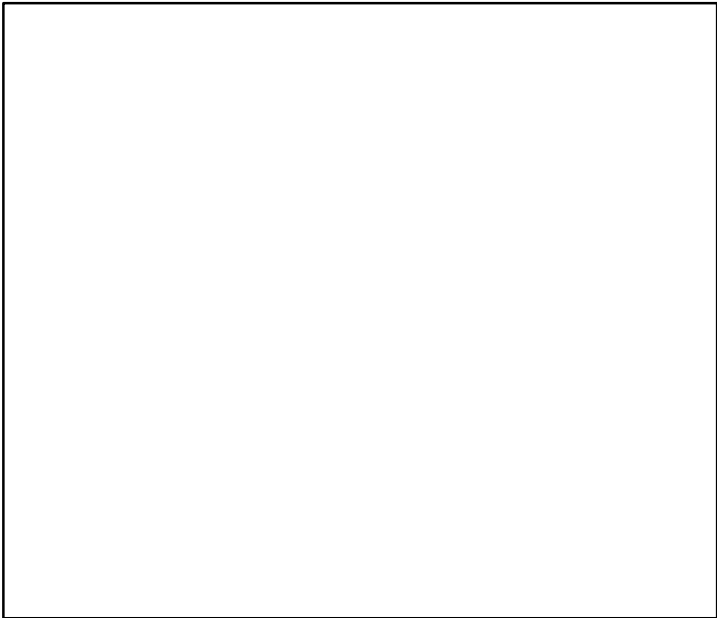
Tusk North-East Arctic [CUSKI-II]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKI-II-1988-2020-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016, 2018, 2020

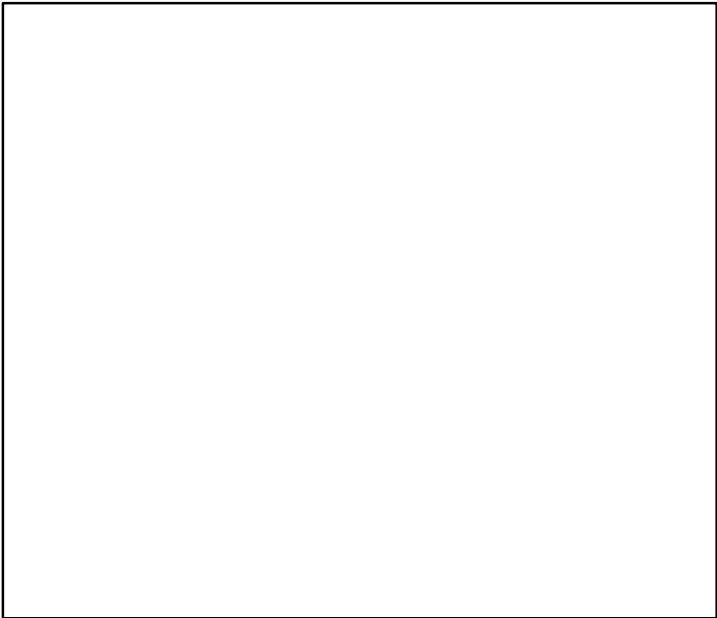
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	111	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	8730		
TL	TL-MT	2020	9120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

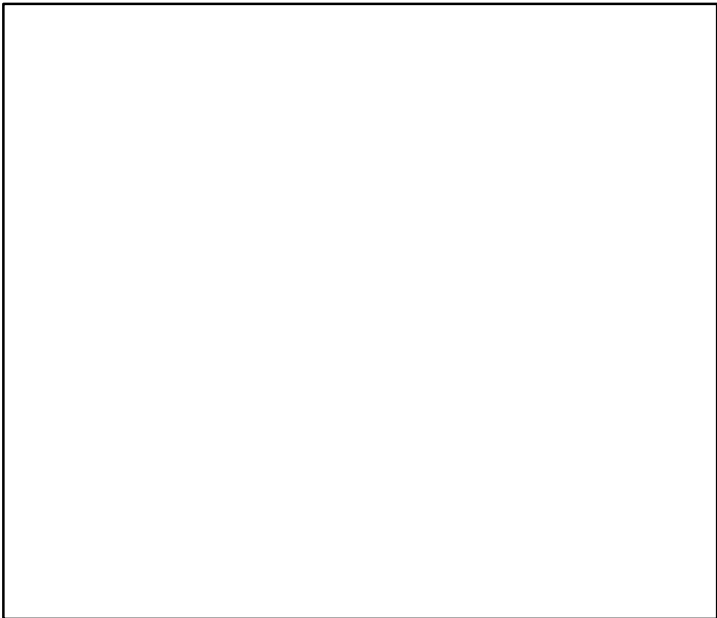
Kobe MSY*



Kobe MGT*



Spawner Recruit*



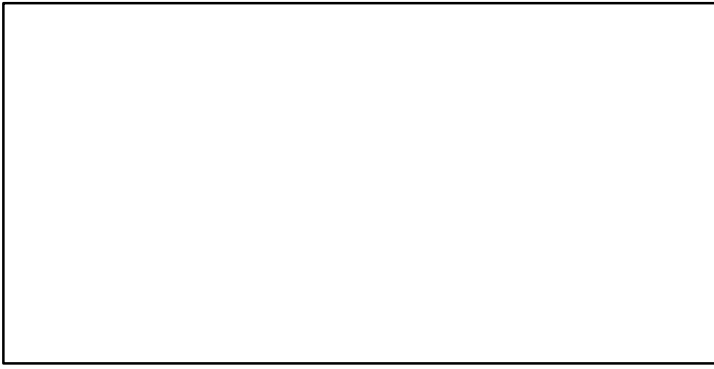
Production*



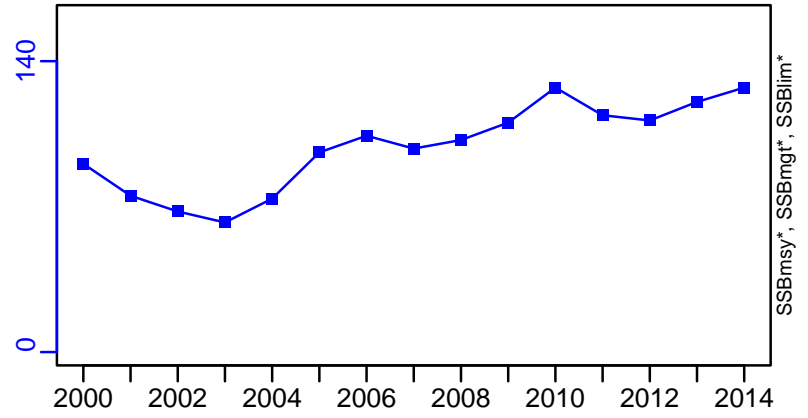
◆ Start Year ◆ End Year * No Data

Tusk North–East Arctic [CUSKI–II]

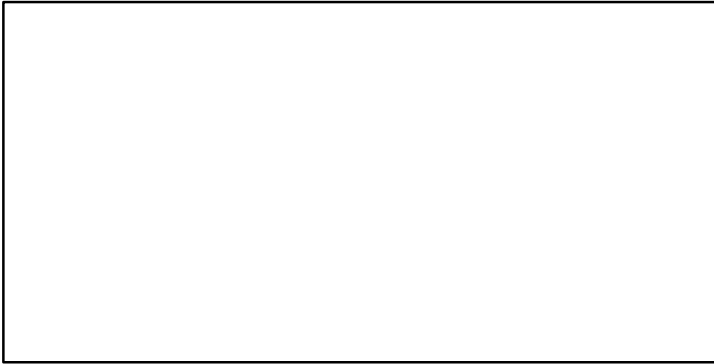
TB*



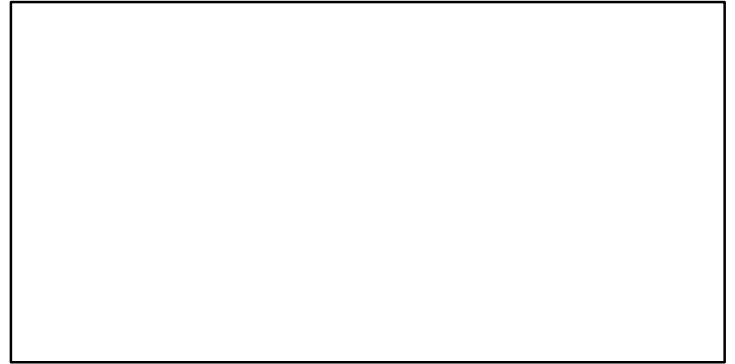
SSB–index (1988–2014–ICESIMP2018)



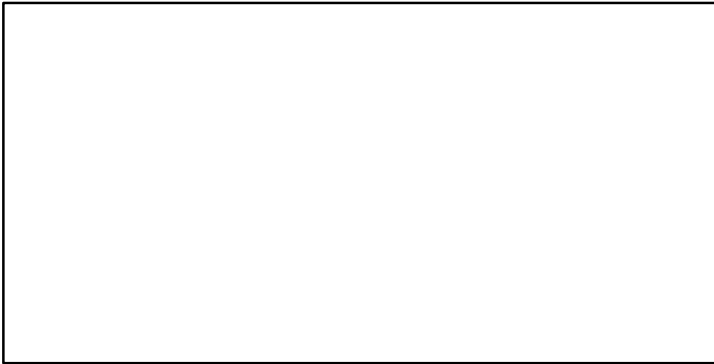
TN *



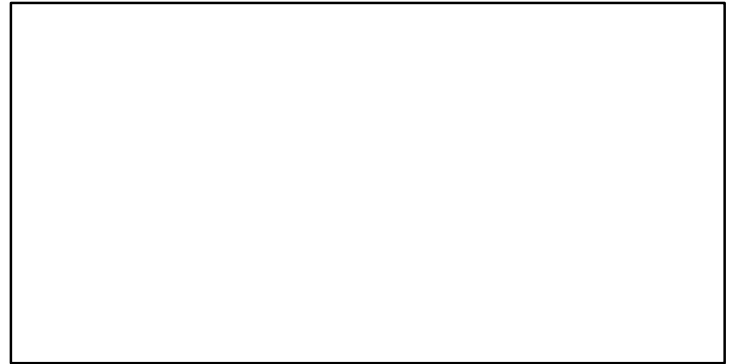
F*



ER*

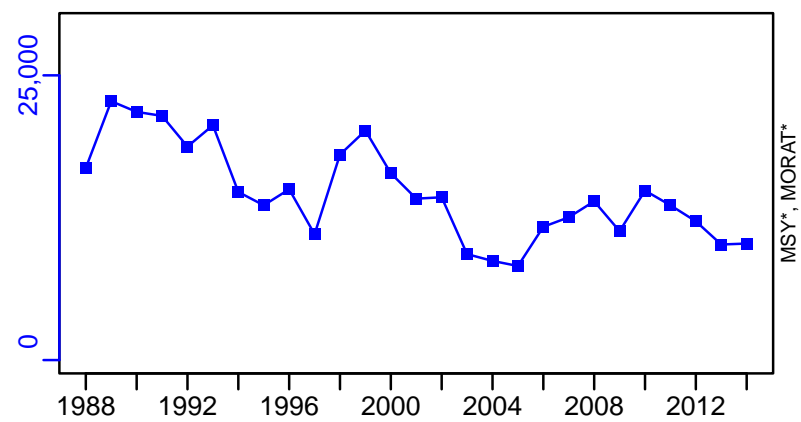


Recruits*

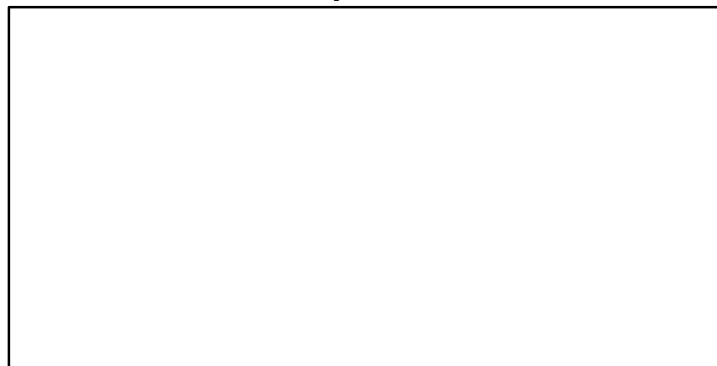


Tusk North-East Arctic [CUSKI-II]

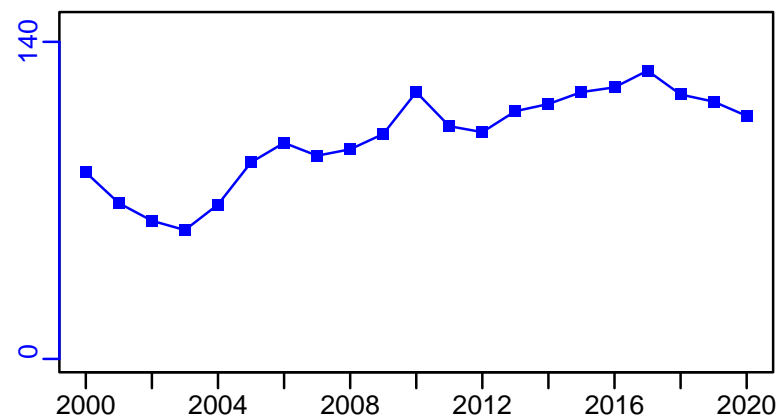
TC-MT, TL*, RecC* (1988–2014–ICESIMP2018)



TAC*, Cpair*, Cadv*



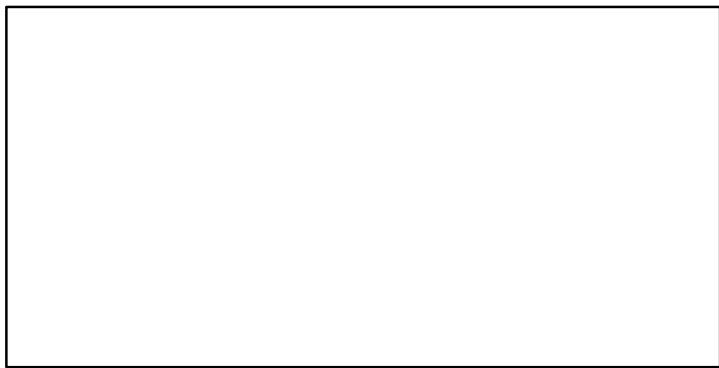
survB-index (1988–2020–ICESIMP2021–2)



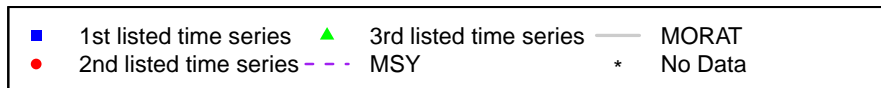
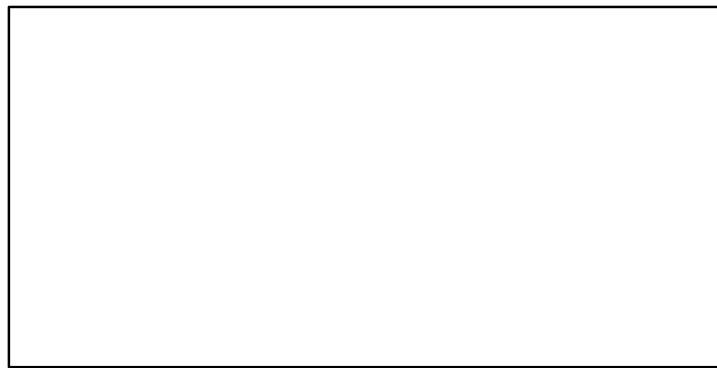
CPUE*



EFFORT*



CdivMSY*



Tusk Northeast Atlantic [CUSKNEATL]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKNEATL-1988-2020-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016, 2018, 2020

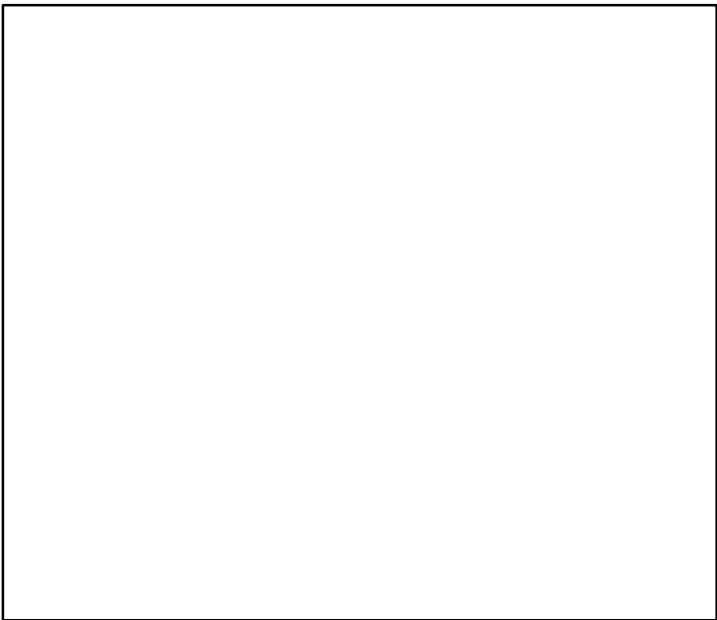
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	131	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	4590		
TL	TL-MT	2020	4070		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

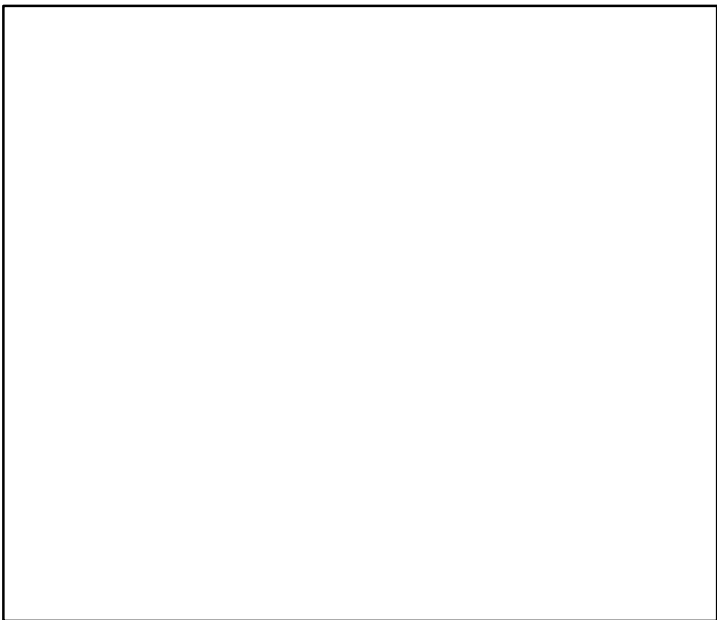
Kobe MSY*



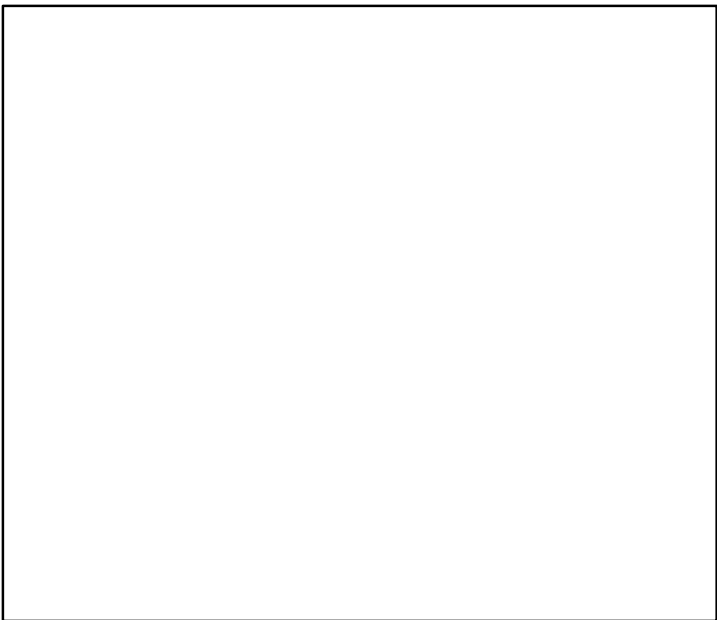
Kobe MGT*



Spawner Recruit*



Production*



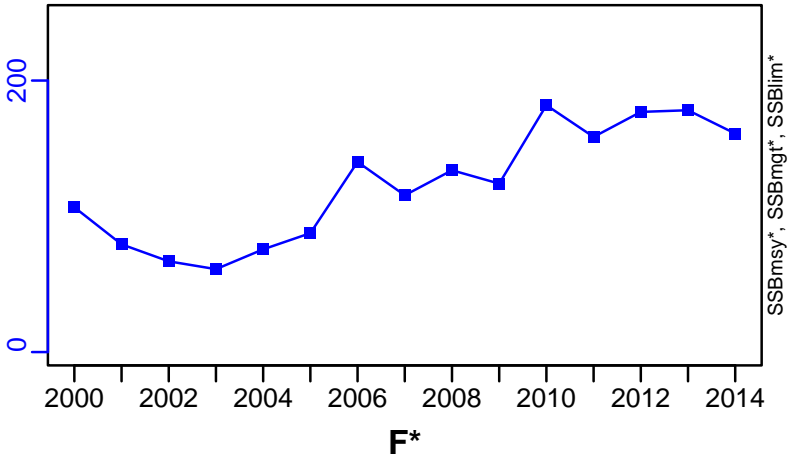
◆ Start Year ◆ End Year * No Data

Tusk Northeast Atlantic [CUSKNEATL]

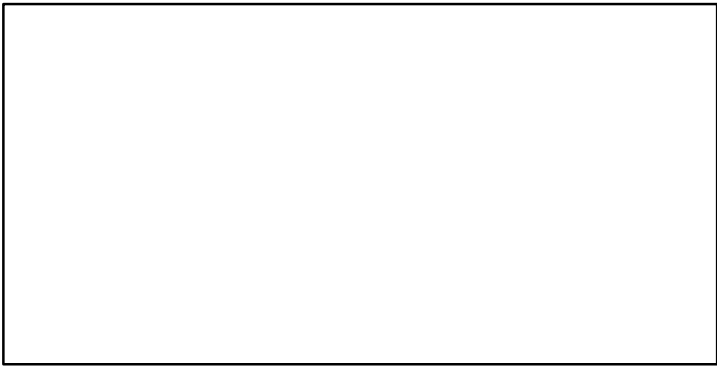
TB*



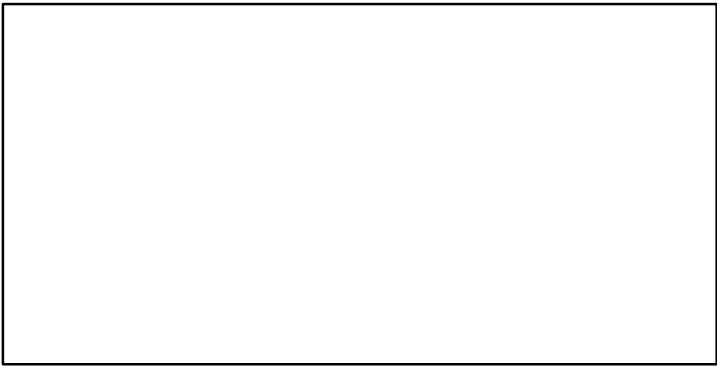
SSB-index (1988–2014–ICESIMP2018)



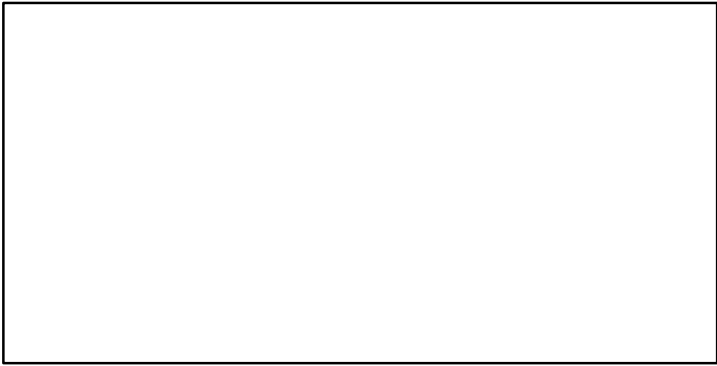
TN *



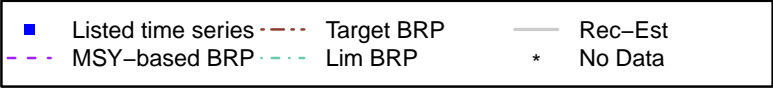
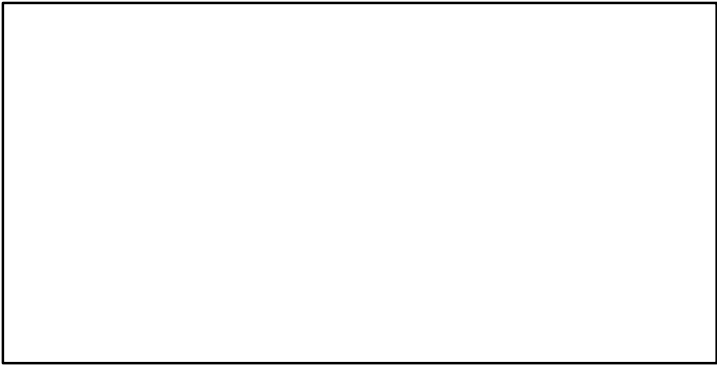
F*



ER*



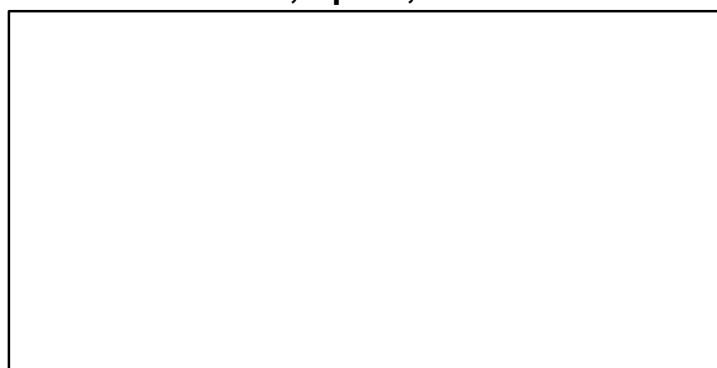
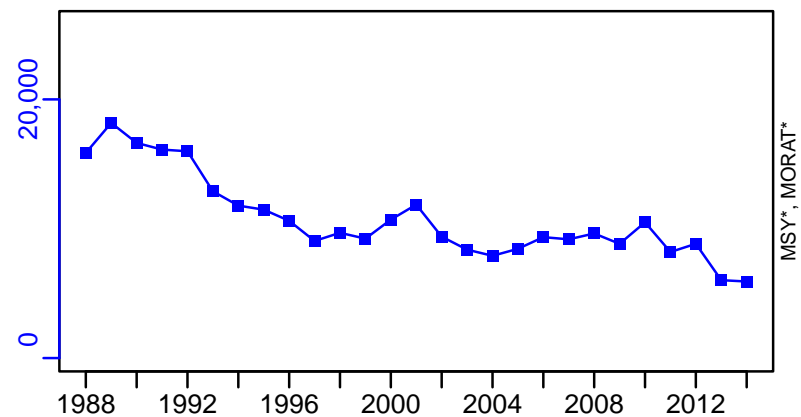
Recruits*



Tusk Northeast Atlantic [CUSKNEATL]

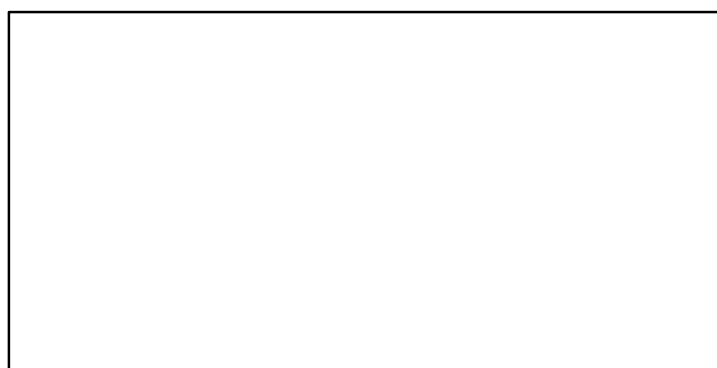
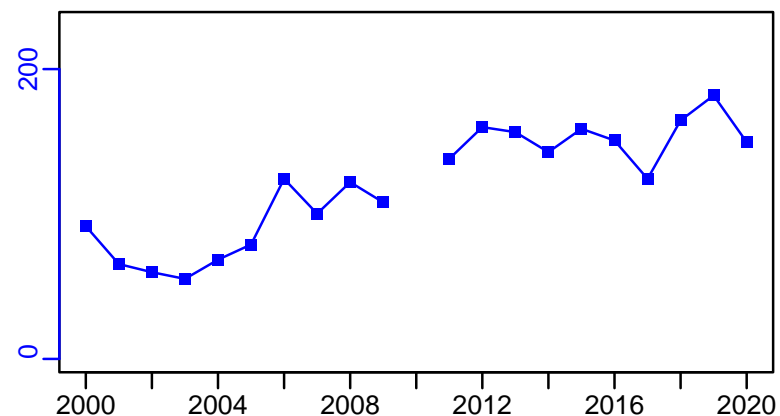
TC-MT, TL*, RecC* (1988–2014–ICESIMP2018)

TAC*, Cpair*, Cadv*



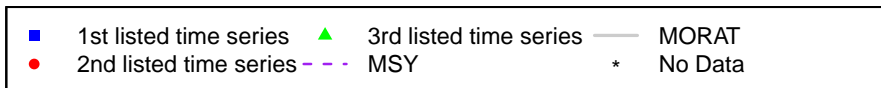
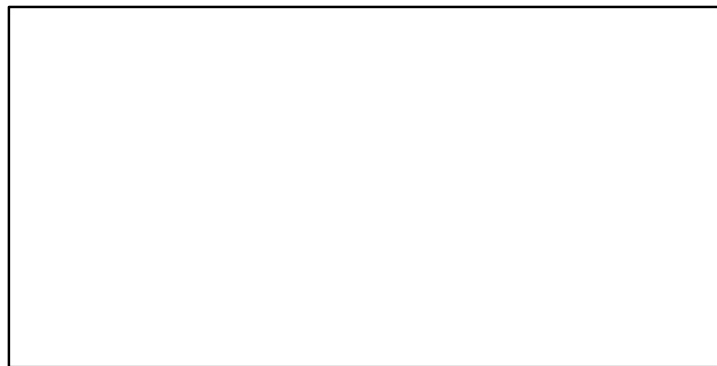
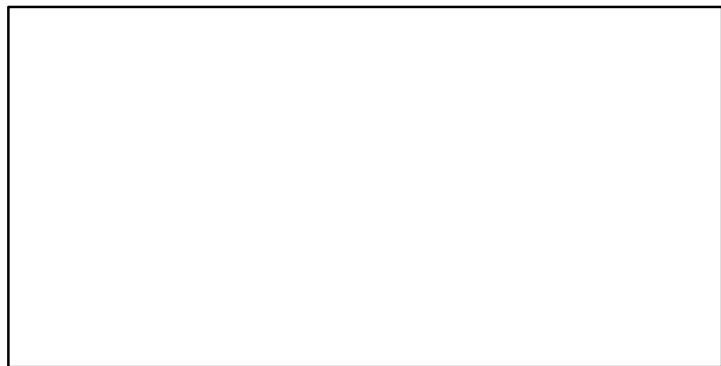
survB-index (1988–2020–ICESIMP2021–2)

CPUE*



EFFORT*

CdivMSY*



Tusk ICES 5a-14 [CUSKVa-XIV]

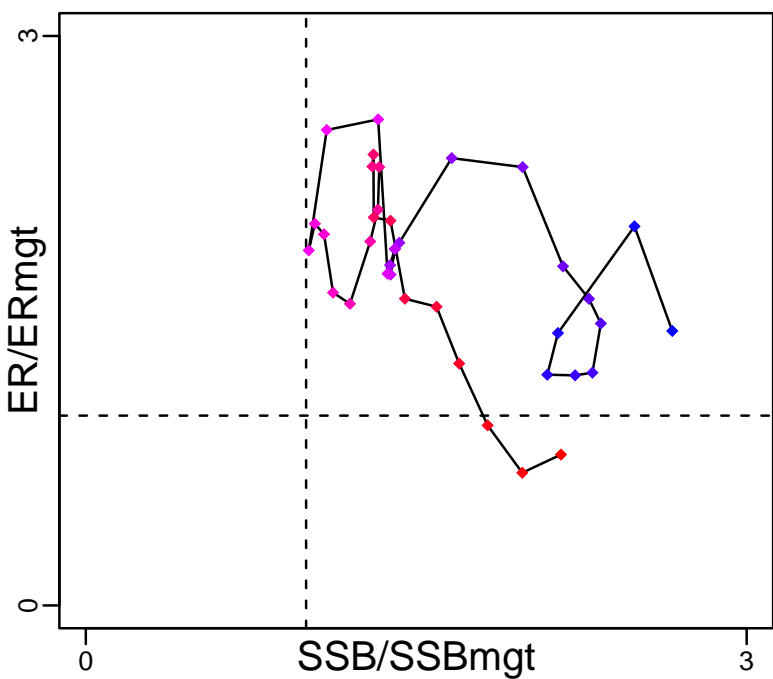
Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVa-XIV-1982-2021-ICESIMP2021-2
Area	ICES 5a-14
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2019, 2014, 2017, 2018, 2015, 2016, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6240
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	ERmgt-ratio	2019	0.13
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	4460
Flim	-	-	-
ERlim	-	-	-

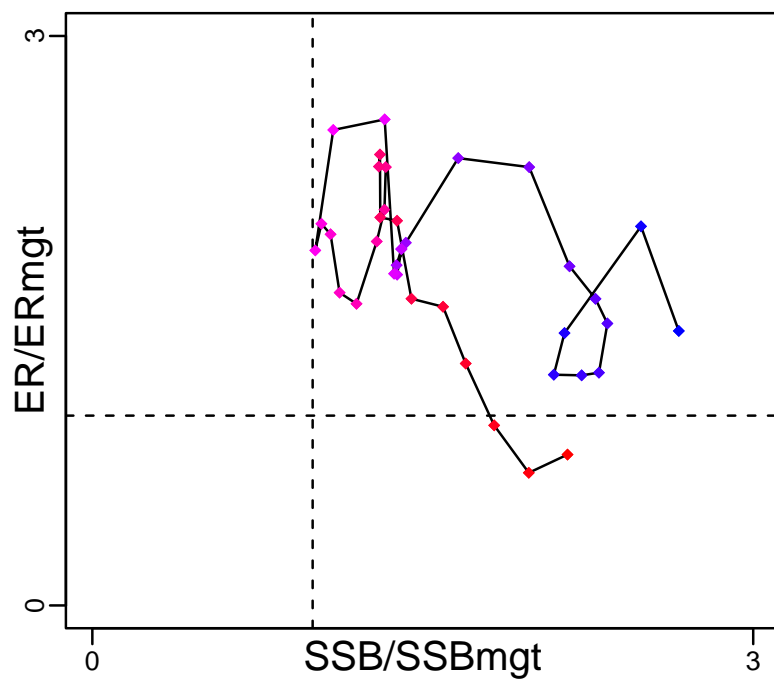
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	37,093	-	-
SSB	SSB-MT	2021	6500	-	-
TN	-	-	-	-	-
R	R-E00	2021	10,900	-	3
F	F-1/yr	2016	0.22	-	-
ER	ER-ratio	2021	0.215	-	-
TC	TC-MT	2021	3420		
TL	TL-MT	2021	3420		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.1		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.267		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.1		
ER/ERmgt	-	-	-		

Tusk ICES 5a-14 [CUSKVa-XIV]

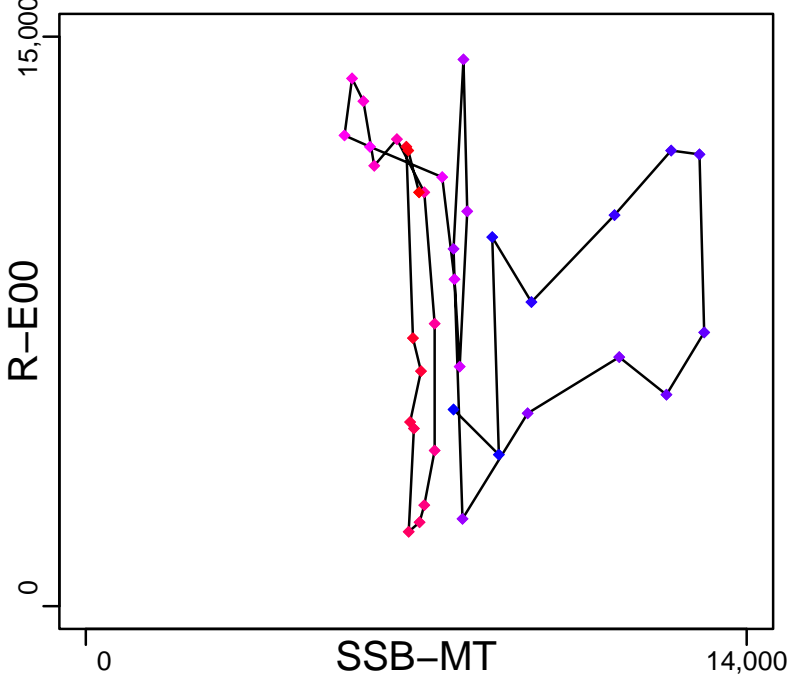
Kobe MSYpref (1973-2019-ICESIMP2021)



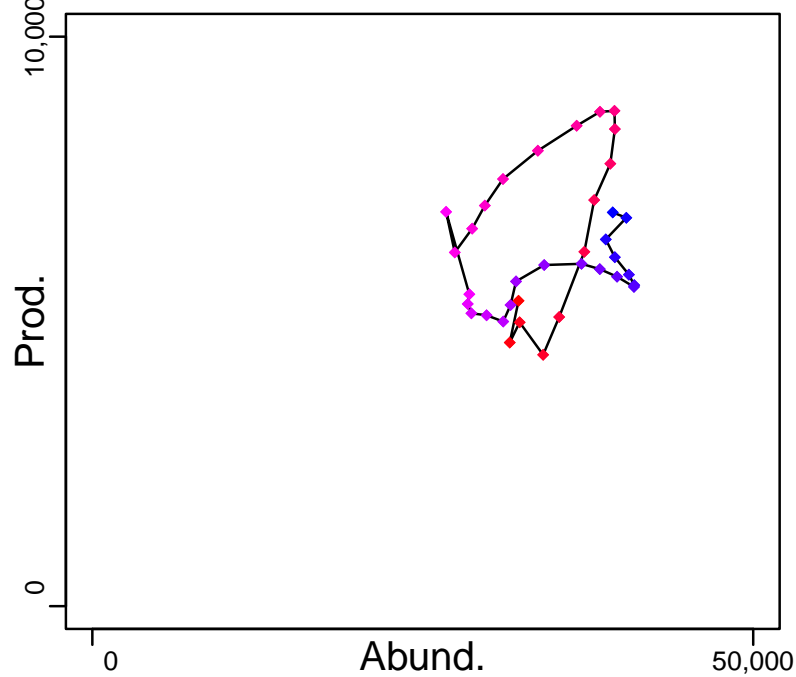
Kobe MGTpref (1973-2019-ICESIMP2021)



Spawner Recruit (1982-2021-ICESIMP2021-2)



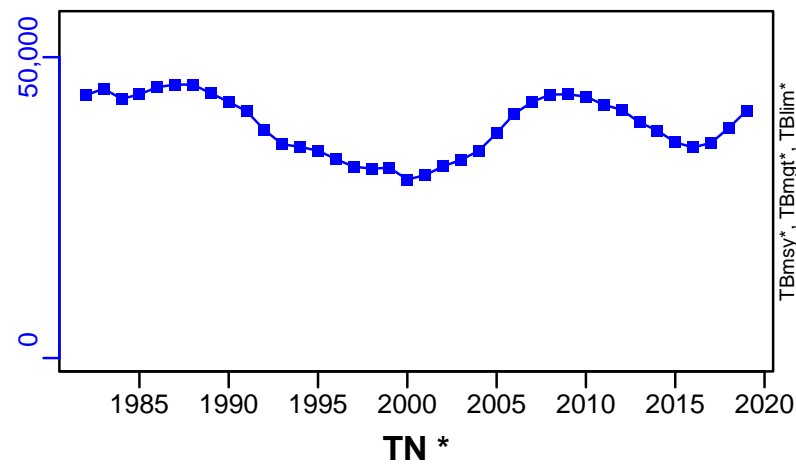
Production (1973-2019-ICESIMP2021)



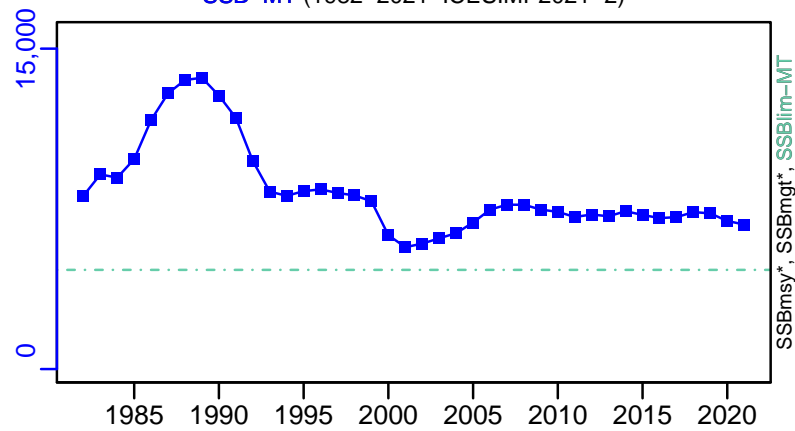
◆ Start Year ◆ End Year * No Data

Tusk ICES 5a-14 [CUSKVa-XIV]

TB-MT (1973-2019-ICESIMP2021)



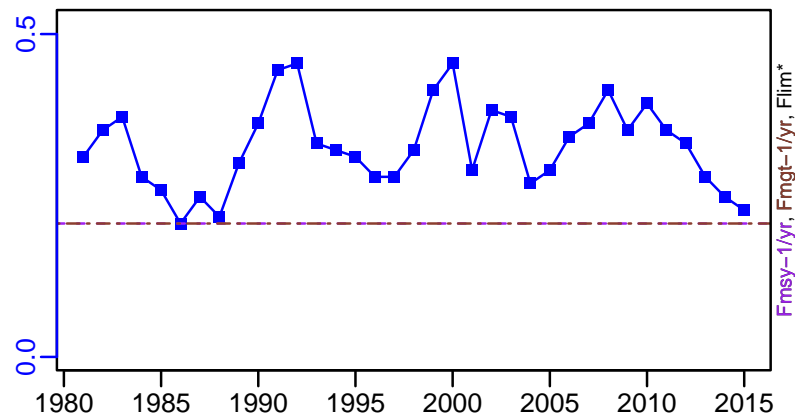
SSB-MT (1982-2021-ICESIMP2021-2)



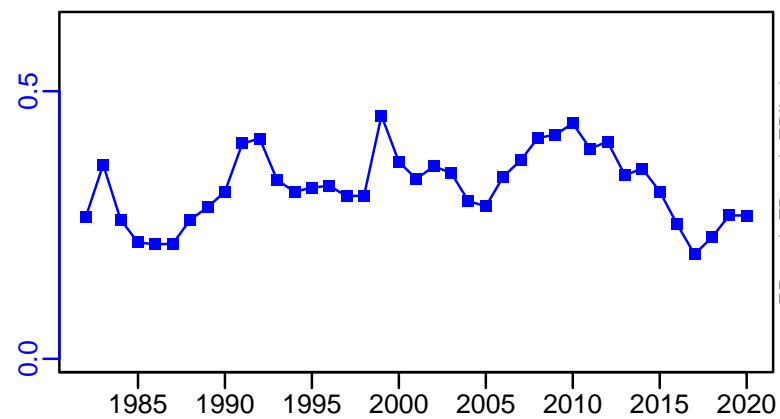
TN *



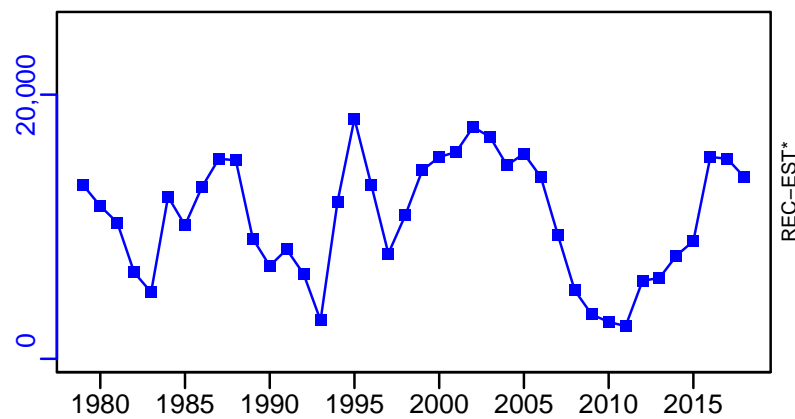
F-1/yr (1981-2016-ICESIMP2016)



ER-ratio (1982-2021-ICESIMP2021-2)

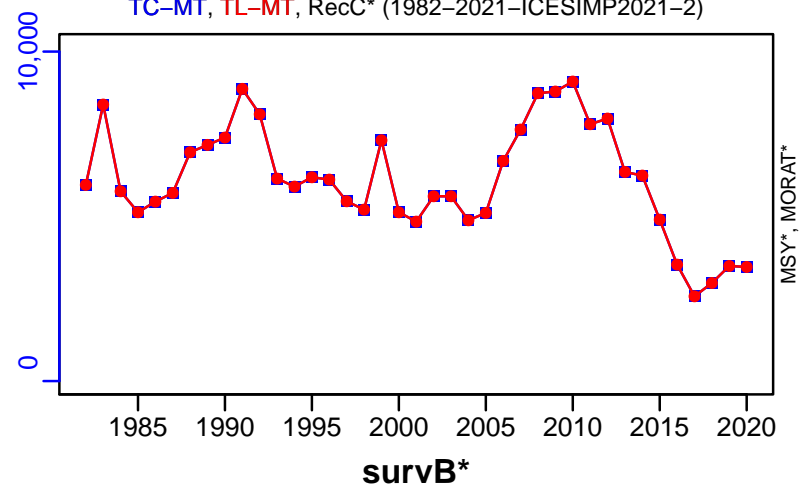


R-E00 (1982-2021-ICESIMP2021-2)

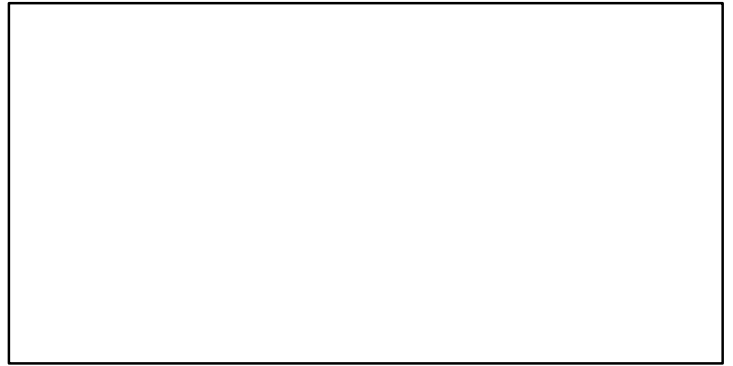


Tusk ICES 5a-14 [CUSKVa-XIV]

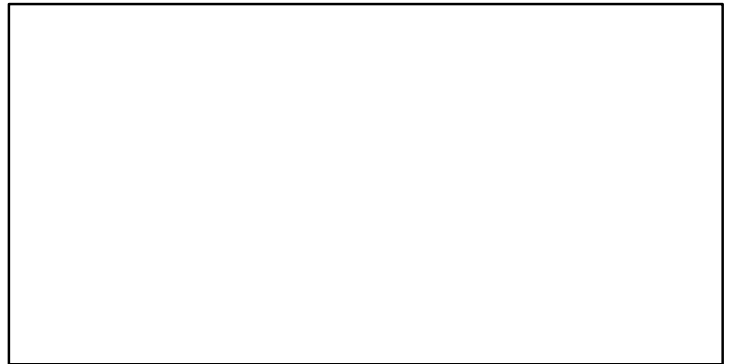
TC-MT, TL-MT, RecC* (1982-2021-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



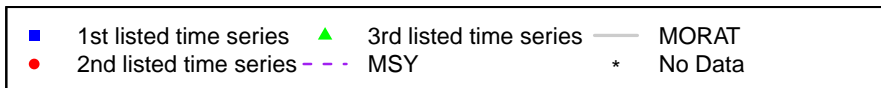
CPUE*



EFFORT*



CdivMSY*



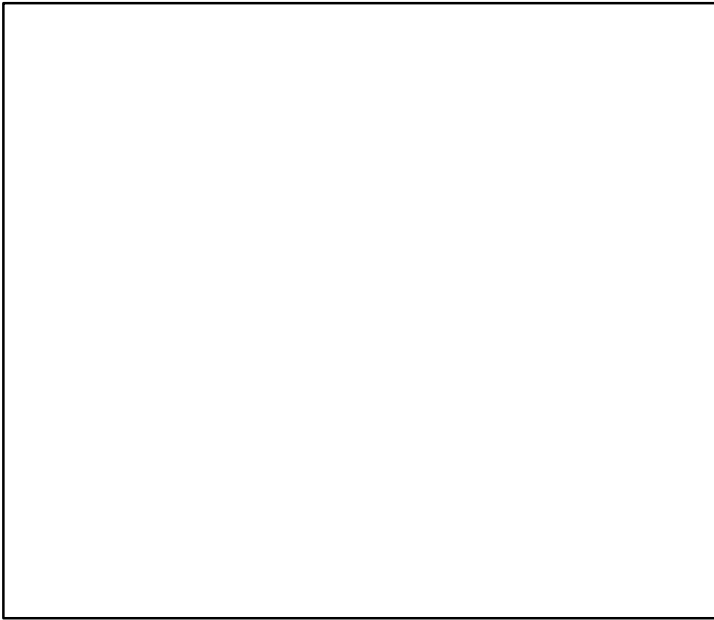
Tusk Rockall Bank [CUSKVlb]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVlb-1988-2019-ICESIMP2021-2
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017, 2019

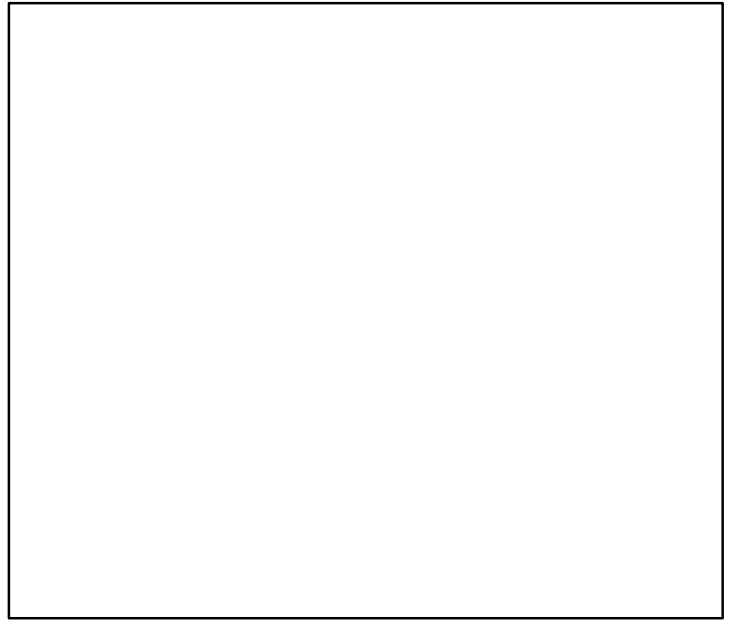
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

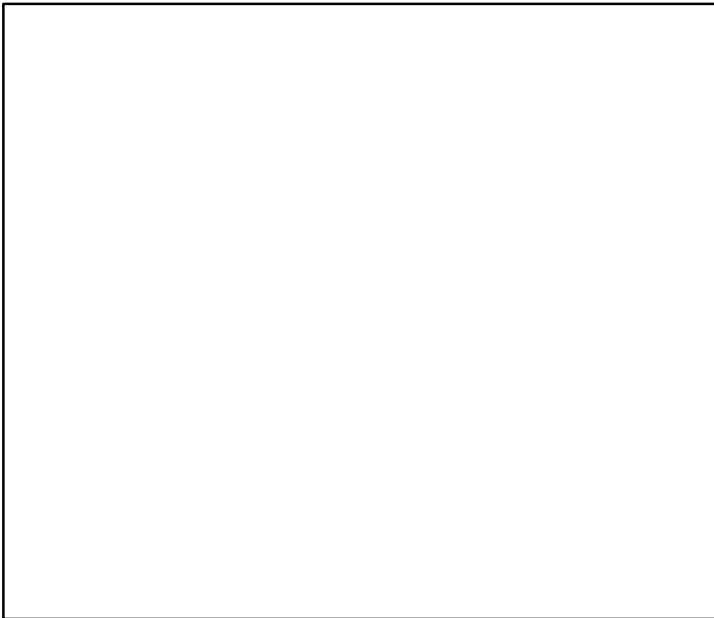
Kobe MSY*



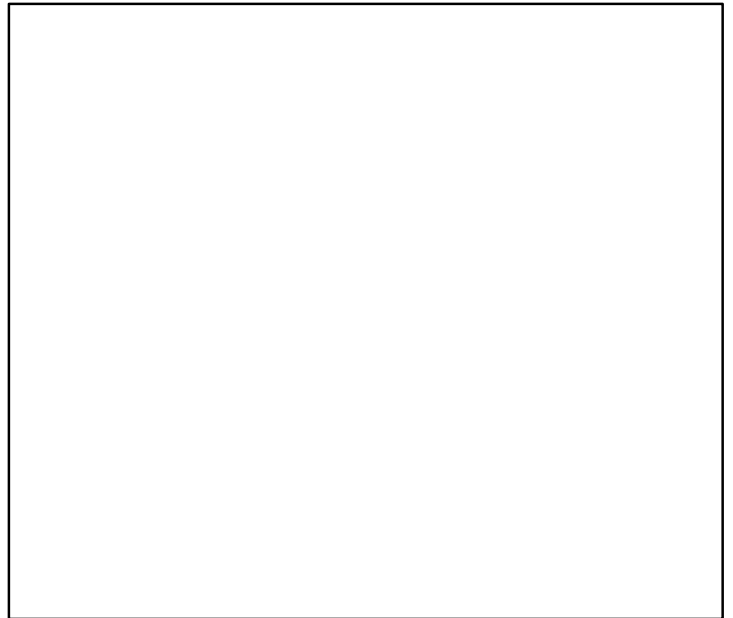
Kobe MGT*



Spawner Recruit*



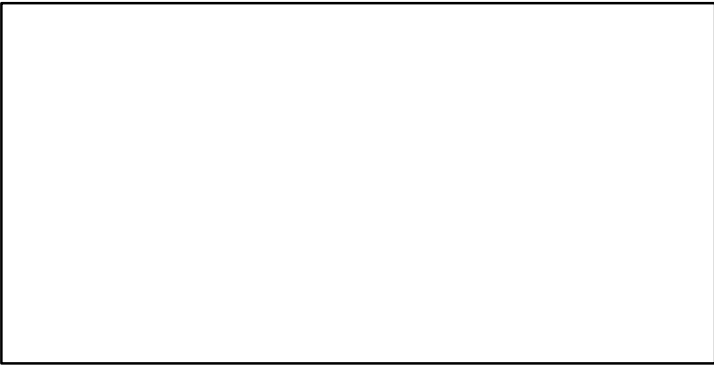
Production*



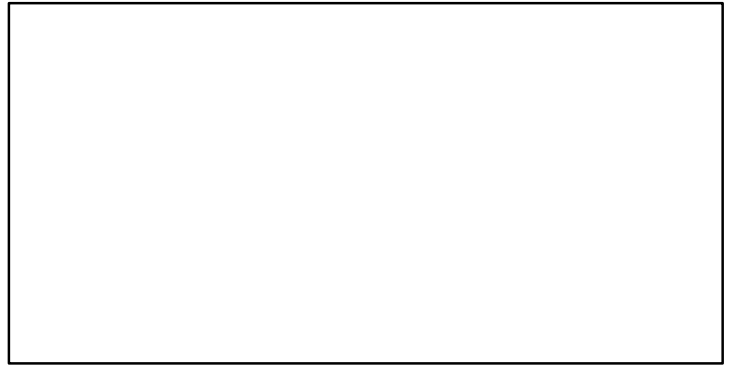
◆ Start Year ◆ End Year * No Data

Tusk Rockall Bank [CUSKVlb]

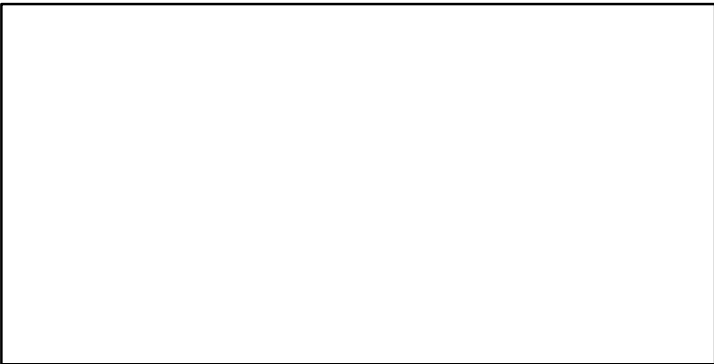
TB*



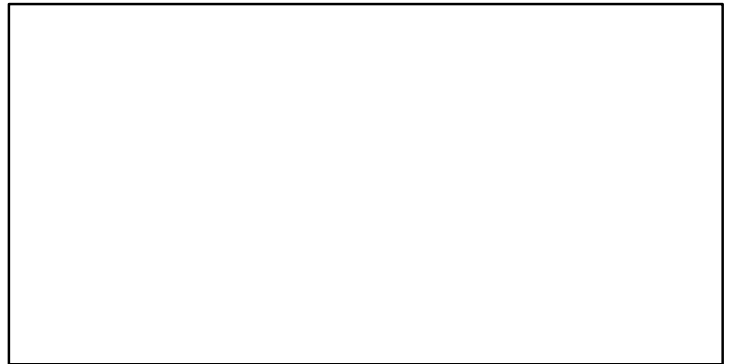
SSB*



TN *



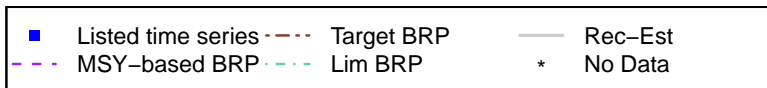
F*



ER*

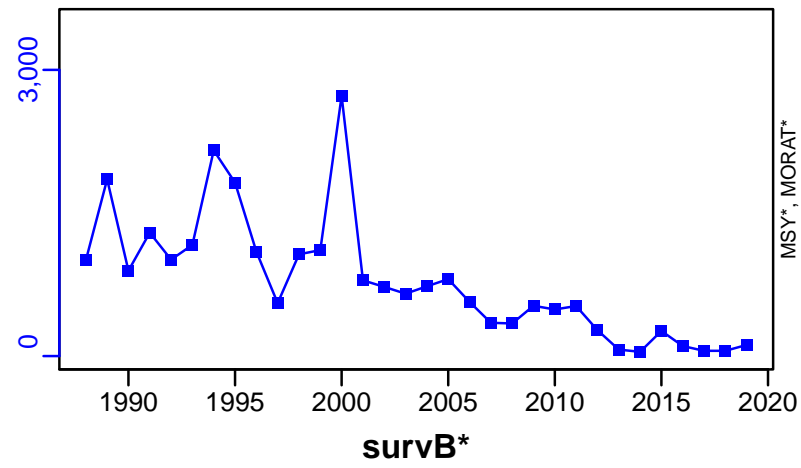


Recruits*

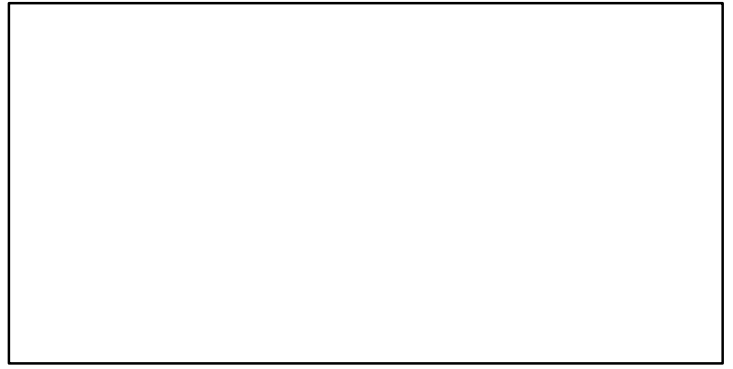


Tusk Rockall Bank [CUSKVlb]

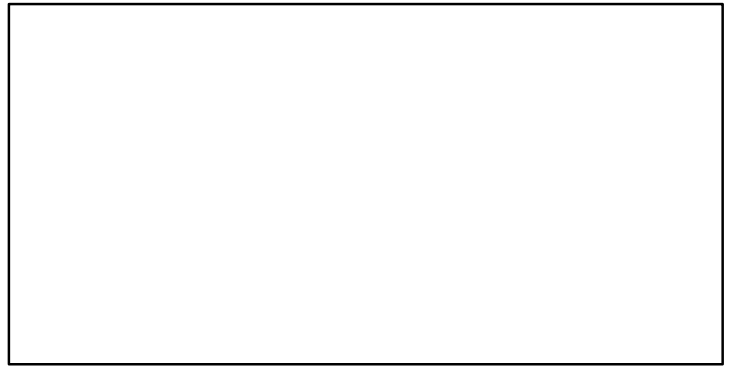
TL-MT, TC*, RecC* (1988-2019-ICESIMP2021-2)



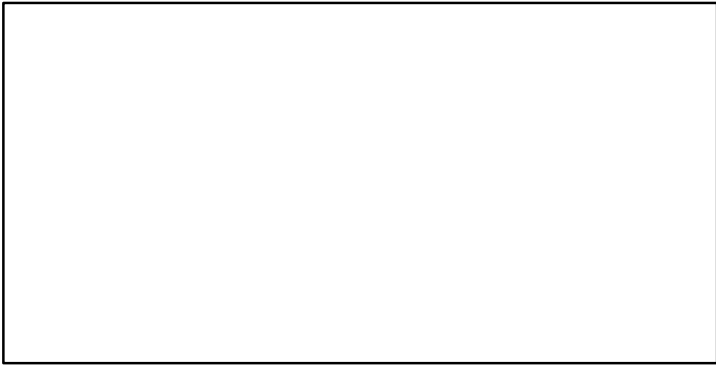
TAC*, Cpair*, Cadv*



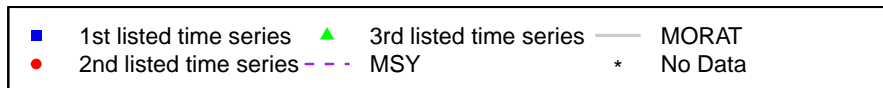
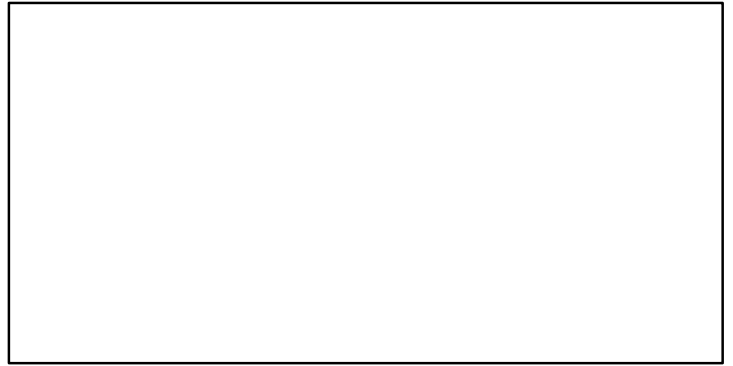
CPUE*



EFFORT*



CdivMSY*



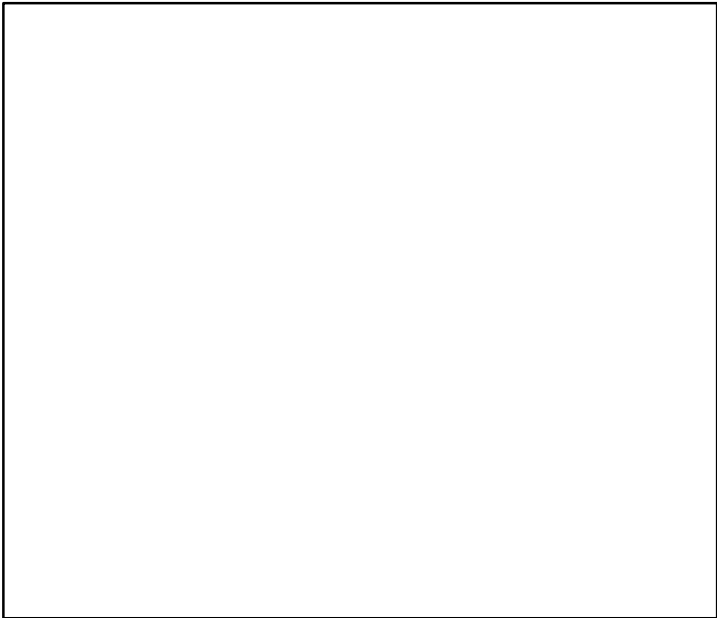
Tusk North of Azores [CUSKXII]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKXII-1988-2018-ICESIMP2021
Area	North of Azores
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2015, 2016, 2018

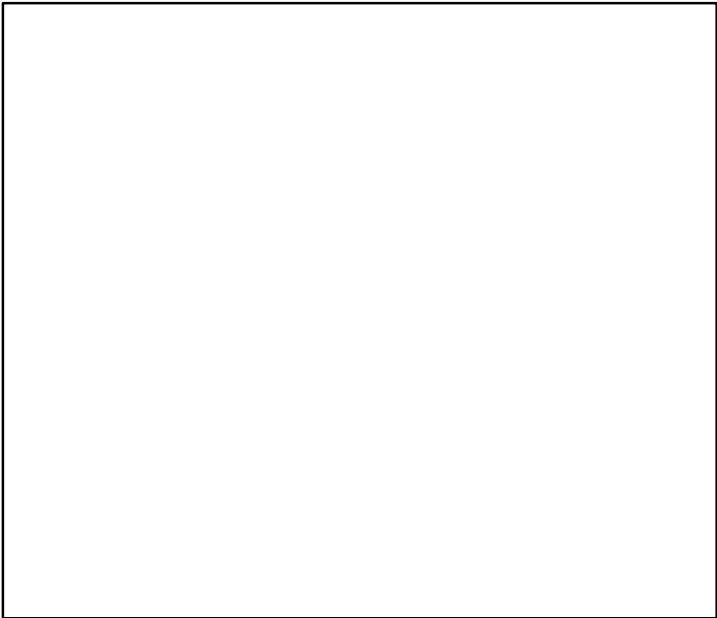
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

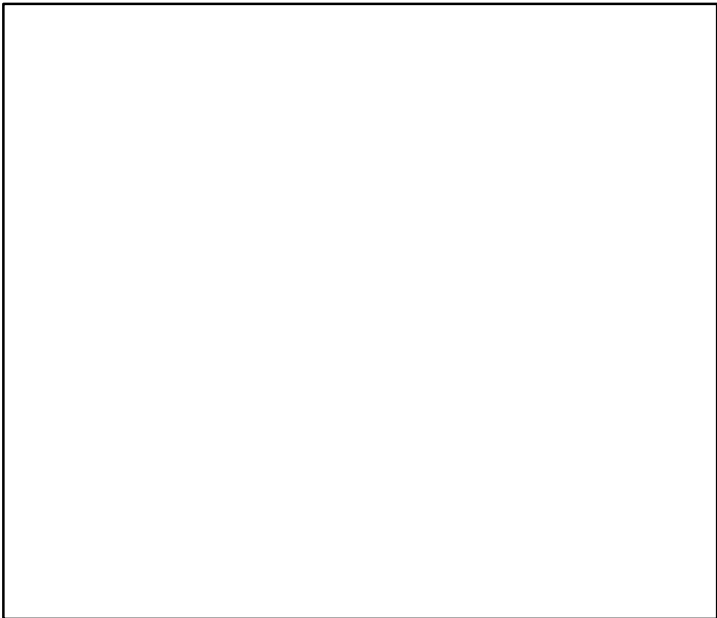
Kobe MSY*



Kobe MGT*



Spawner Recruit*



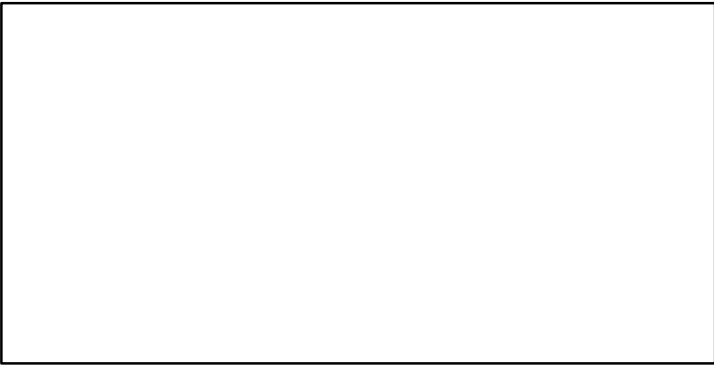
Production*



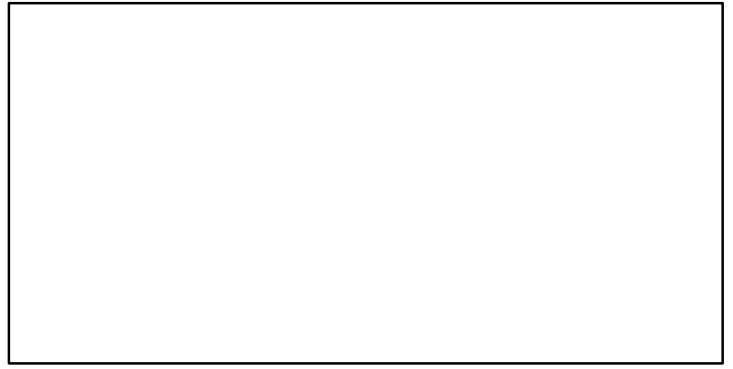
◆ Start Year ◆ End Year * No Data

Tusk North of Azores [CUSKXII]

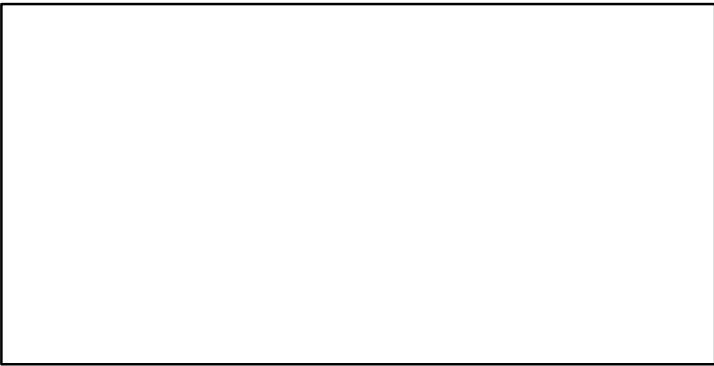
TB*



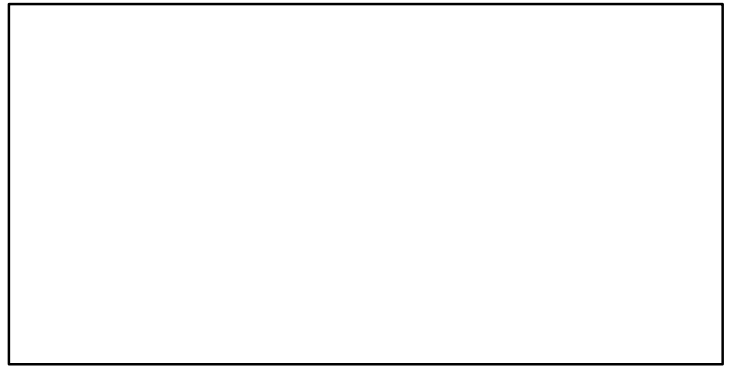
SSB*



TN *



F*



ER*

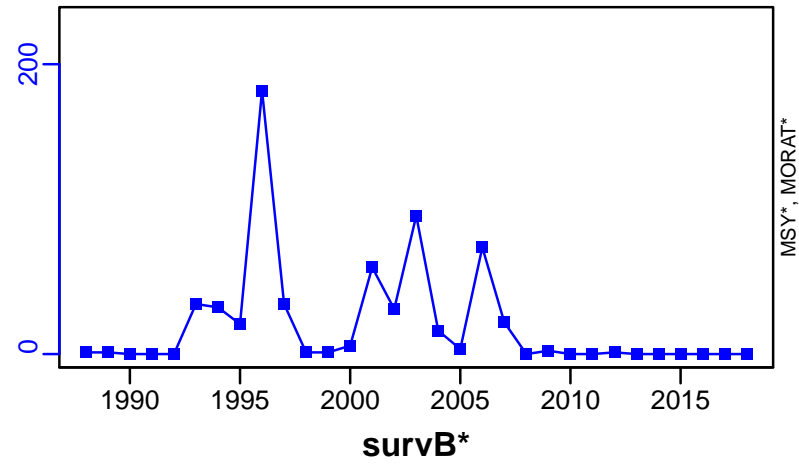


Recruits*

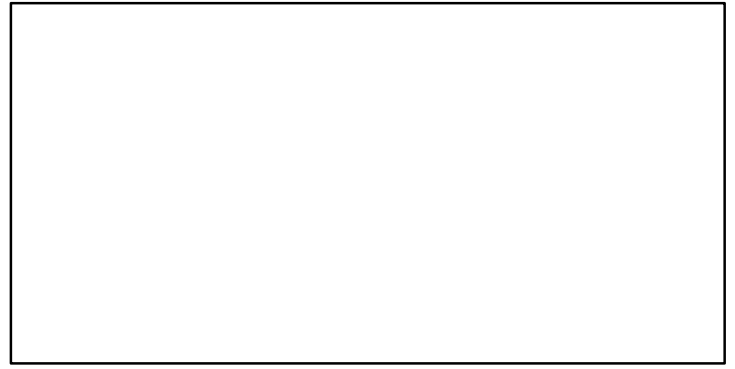


Tusk North of Azores [CUSKXII]

TL-MT, TC*, RecC* (1988–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



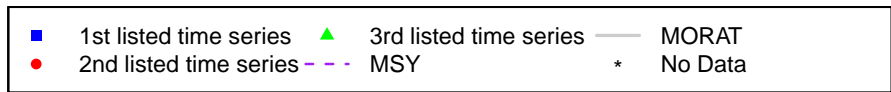
CPUE*



EFFORT*



CdivMSY*



Deep water cape hake South Africa [DEEPCHAKESA]

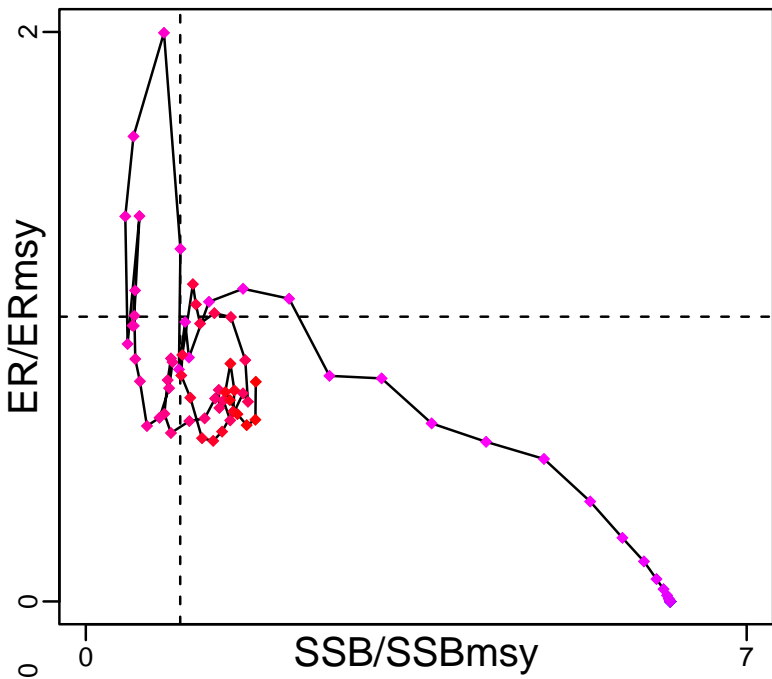
Metadata	
Scientific Name	Merluccius paradoxus
Current Assess ID	MARAM-DEEPCHAKESA-1900-2021-ROSSGILLESPIE
Area	South Africa
Management Authority	South African national management, Fisheries Branch of Department of Agriculture, Forestry and Fisheries
Assessor	Marine Resource Assessment and Management Group, Department of Mathematics and Applied Mathematics, University of Cape Town, Rondebosch, 7701, South Africa
Asmts in RAM	2021, 2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2021	213,089
SSBmsy	SSBmsy-MT	2021	54,592
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2021	0.65
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	54,592
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2021	0.65
TB0	TB0-MT	2021	823,978
SSB0	SSB0-MT	2021	337,964
MSY	MSY-MT	2021	138,508
M	M-1/yr	2021	0.52
TBlim	TBlim-MT	2013	60,000
SSBlim	SSBlim-MT	2021	22,825
Flim	-	-	-
ERlim	-	-	-

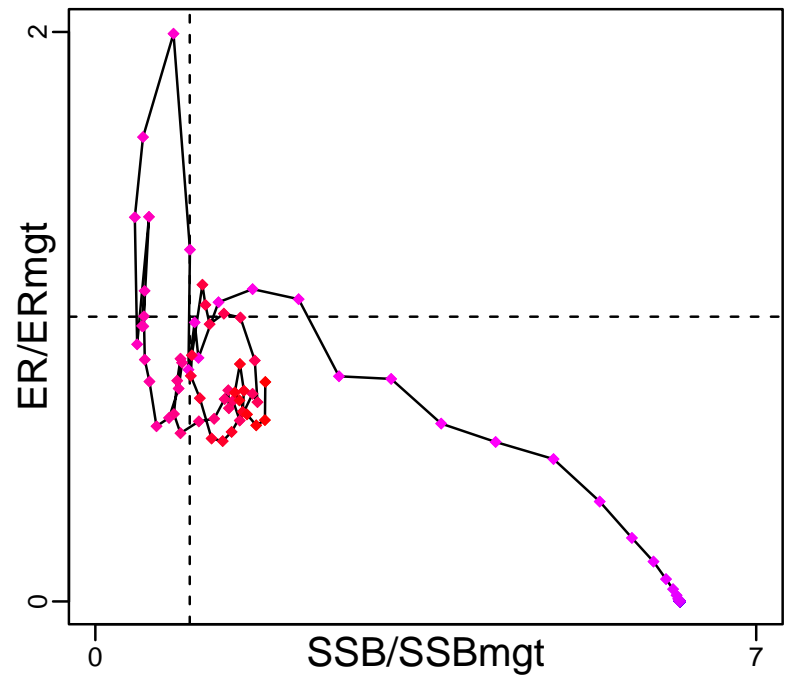
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	363,527	Both	0+
SSB	SSB-MT	2021	98,302	Females	-
TN	-	-	-	-	-
R	R-E00	2021	2,219,440,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2021	0.501	Both	0+
TC	TC-MT	2021	110,377		
TL	TL-MT	2021	110,377		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2021	1.706		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.801		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2021	0.771		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.801		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Deep water cape hake South Africa [DEEPCHAKESA]

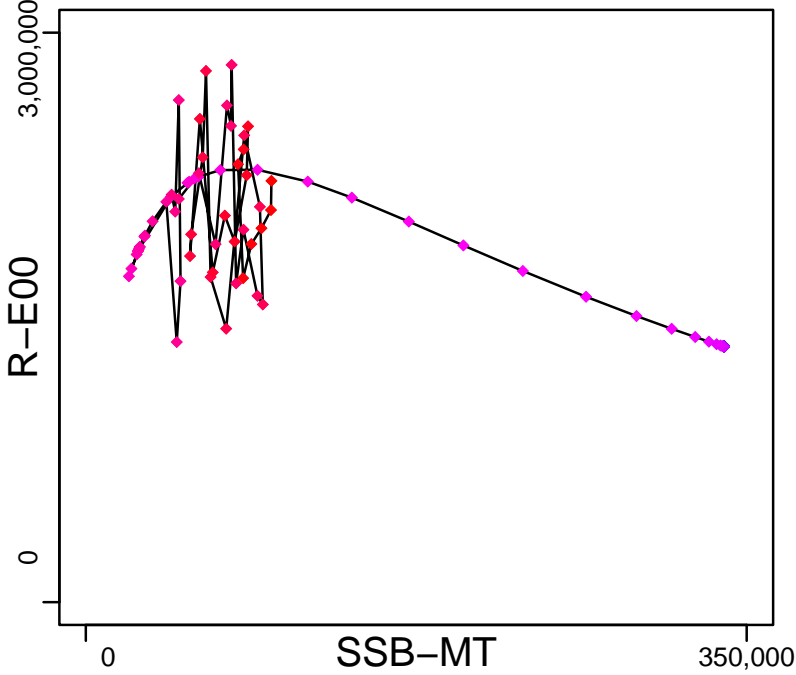
Kobe MSYpref (1900–2021–ROSSGILLESPIE)



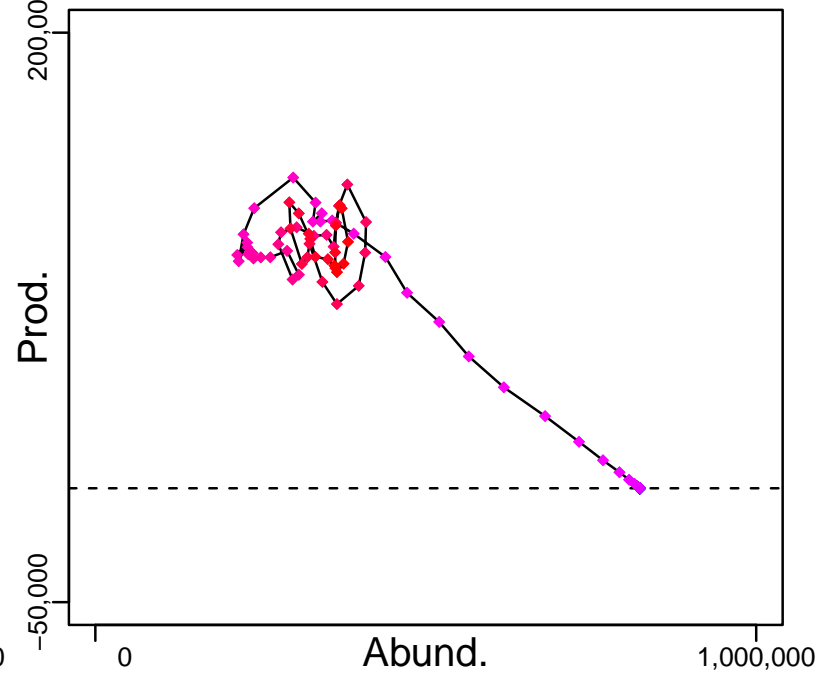
Kobe MGTpref (1900–2021–ROSSGILLESPIE)



Spawner Recruit (1900–2021–ROSSGILLESPIE)



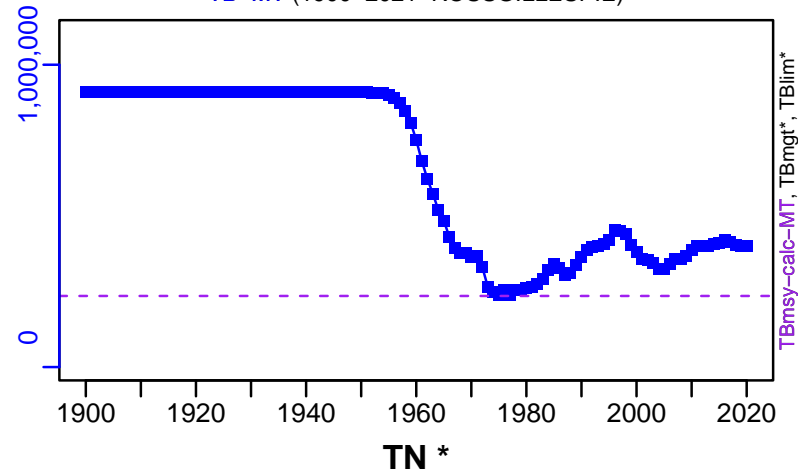
Production (1900–2021–ROSSGILLESPIE)



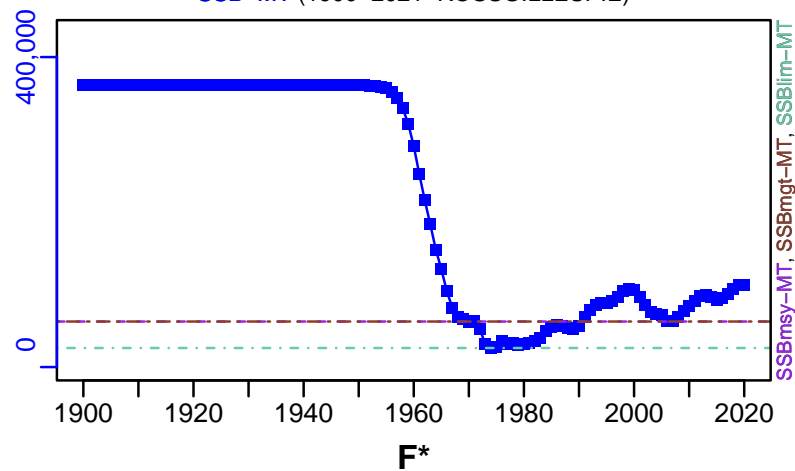
◆ Start Year ◆ End Year * No Data

Deep water cape hake South Africa [DEEPCHAKESA]

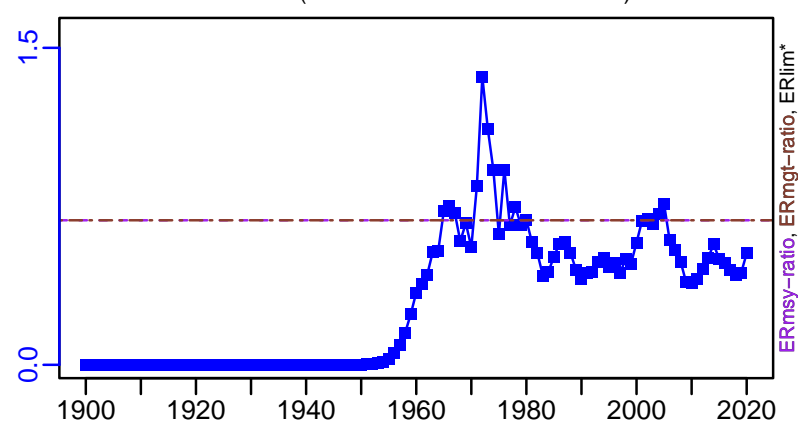
TB-MT (1900–2021–ROSSGILLESPIE)



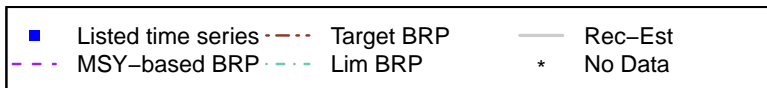
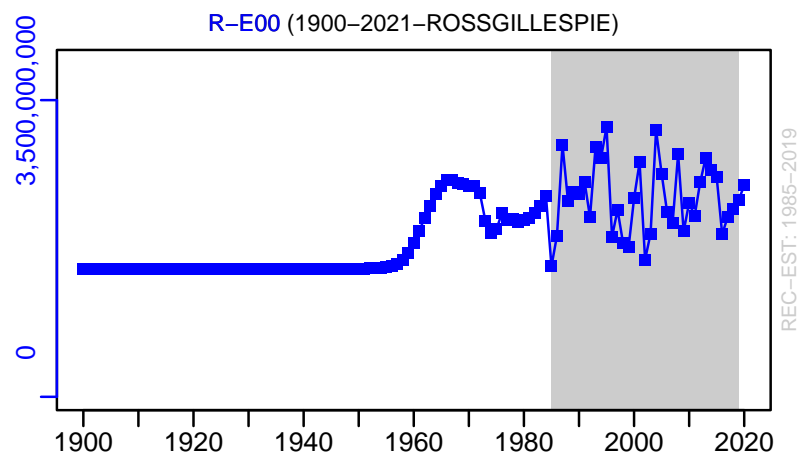
SSB-MT (1900–2021–ROSSGILLESPIE)



ER-ratio (1900–2021–ROSSGILLESPIE)

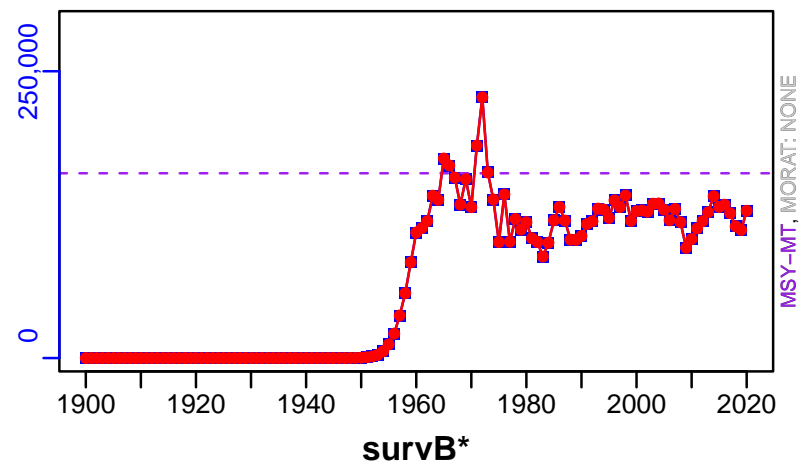


R-E00 (1900–2021–ROSSGILLESPIE)

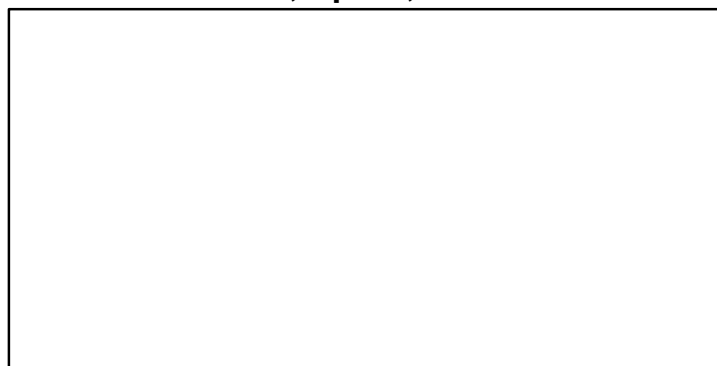


Deep water cape hake South Africa [DEEPCHAKESA]

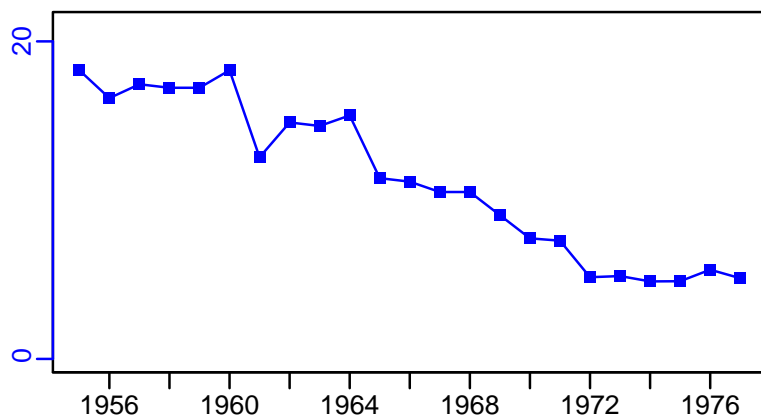
TC-MT, TL-MT, RecC* (1900–2021–ROSSGILLESPIE)



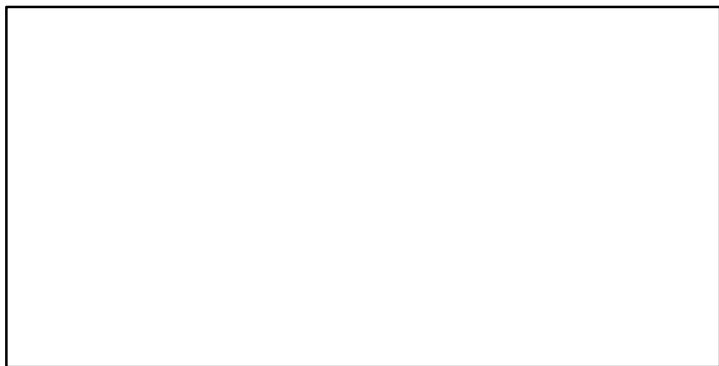
TAC*, Cpair*, Cadv*



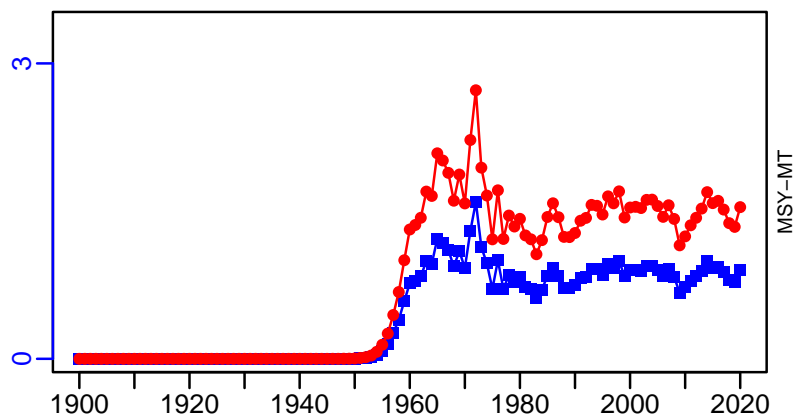
CPUE-index (1900–2021–ROSSGILLESPIE)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1900–2021–ROSSGILLESPIE)



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

European pollack ICES 3a-4 [EPOLLIV-IIIa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGNSSK-EPOLLIV-IIIa-1977-2020-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	2016, 2017, 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	2017	1910		
TL	TL-MT	2020	2620		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

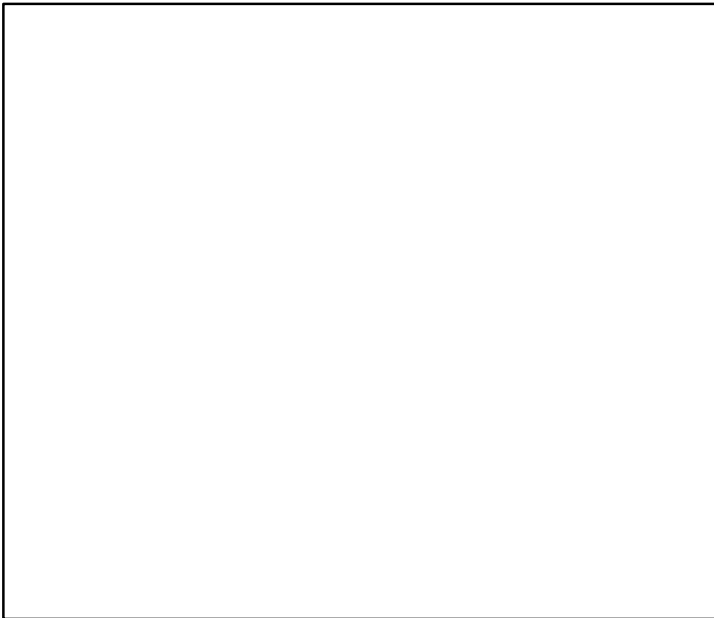
Kobe MSY*



Kobe MGT*



Spawner Recruit*



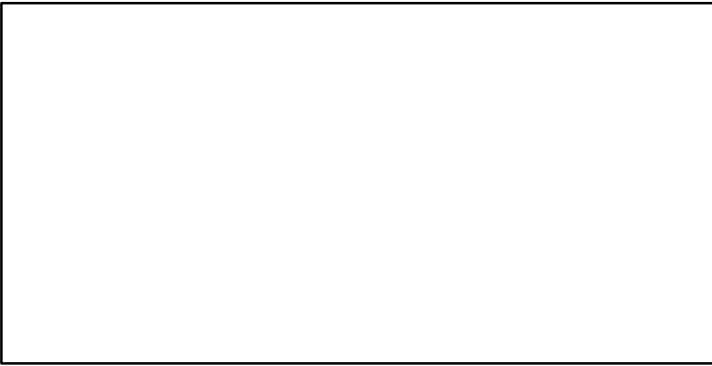
Production*



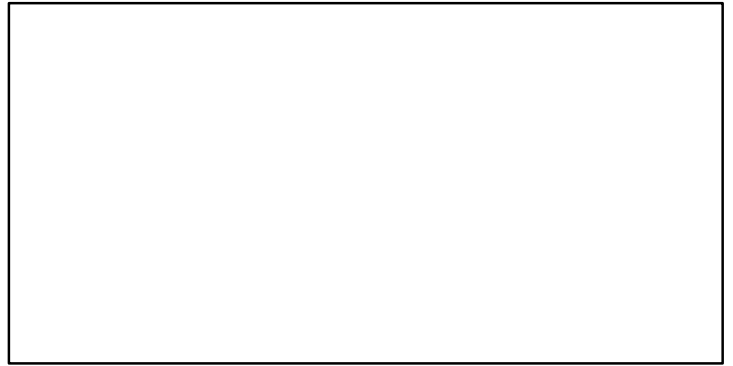
◆ Start Year ◆ End Year * No Data

European pollack ICES 3a–4 [EPOLLIV–IIIa]

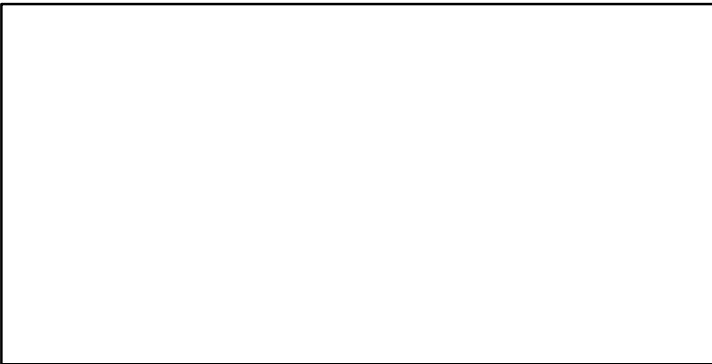
TB*



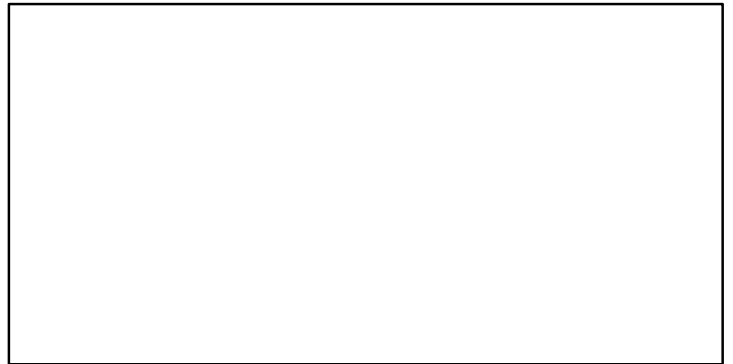
SSB*



TN *



F*



ER*

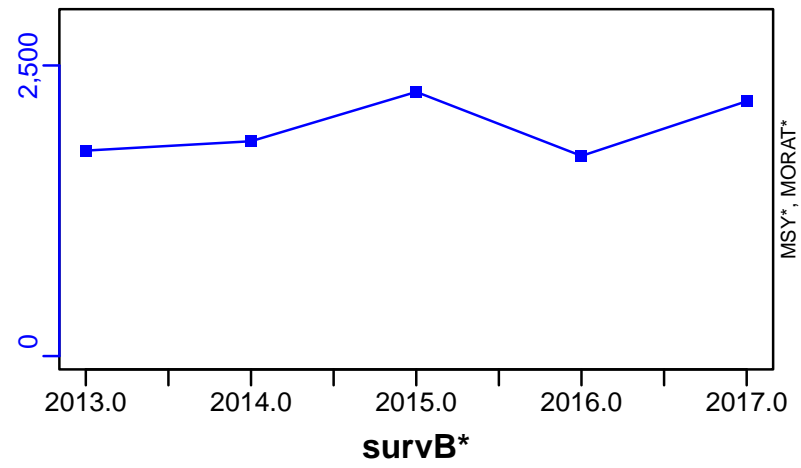


Recruits*

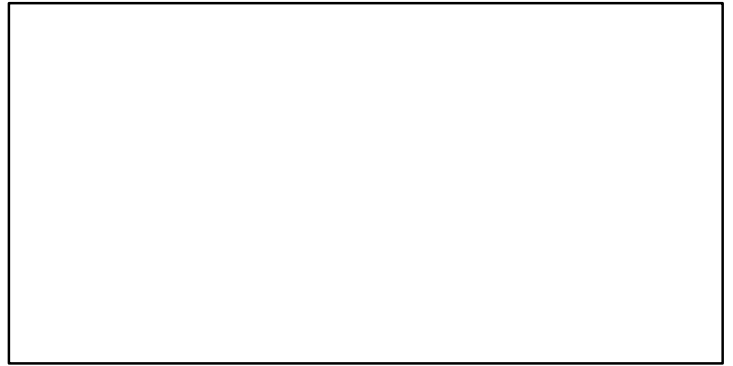


European pollack ICES 3a-4 [EPOLLIV-IIIa]

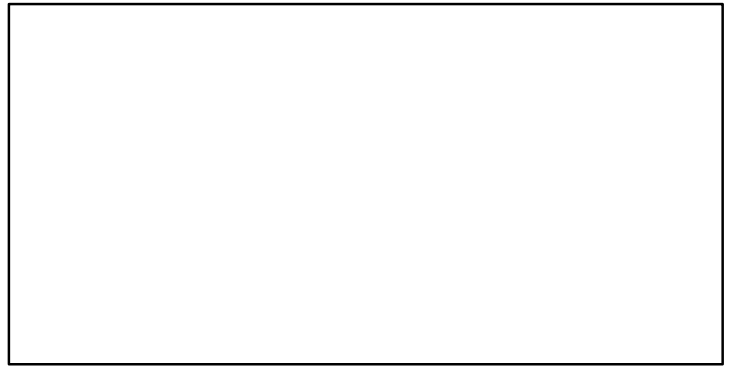
TC-MT, TL*, RecC* (1977-2017-ICESIMP2018)



TAC*, Cpair*, Cadv*



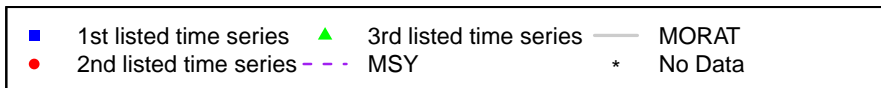
CPUE*



EFFORT*



CdivMSY*



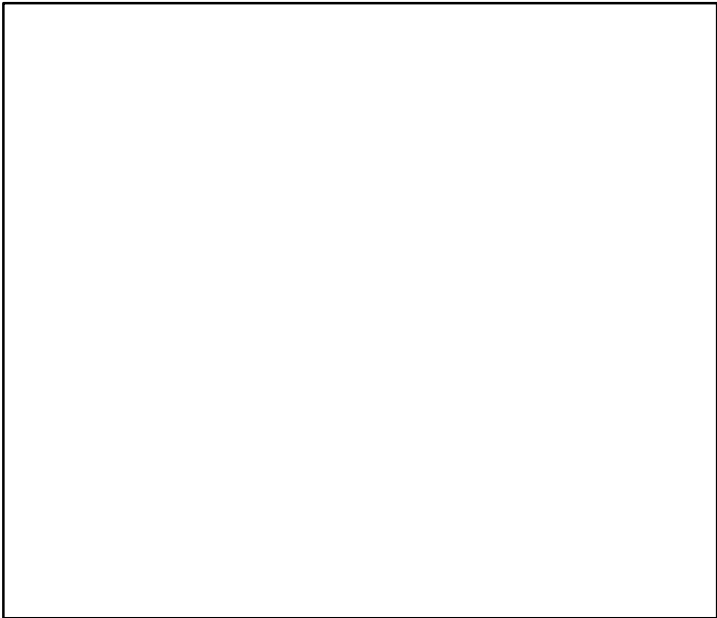
European pollack ICES 8-9a [EPOLLVIII-IXa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGBIE-EPOLLVIII-IXa-1979-2020-ICESIMP2021-2
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	2020, 2015, 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	-	-	-		
TL	TL-MT	2020	1540		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

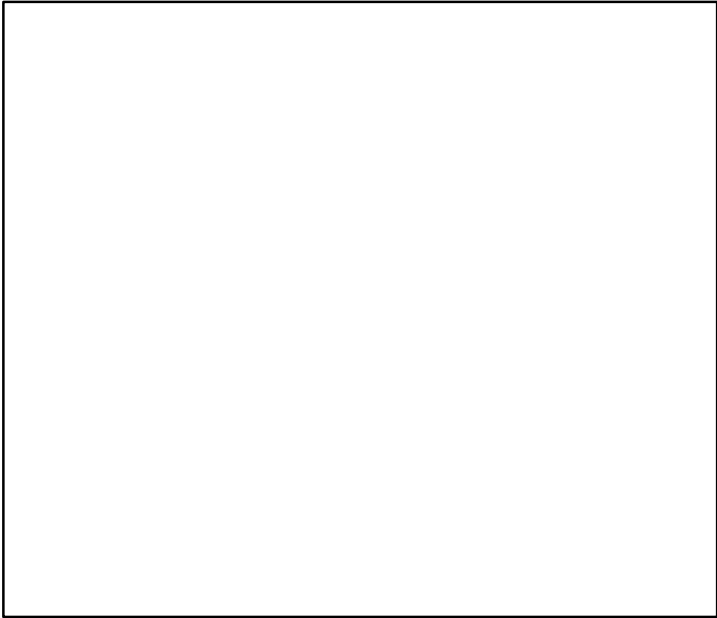
Kobe MSY*



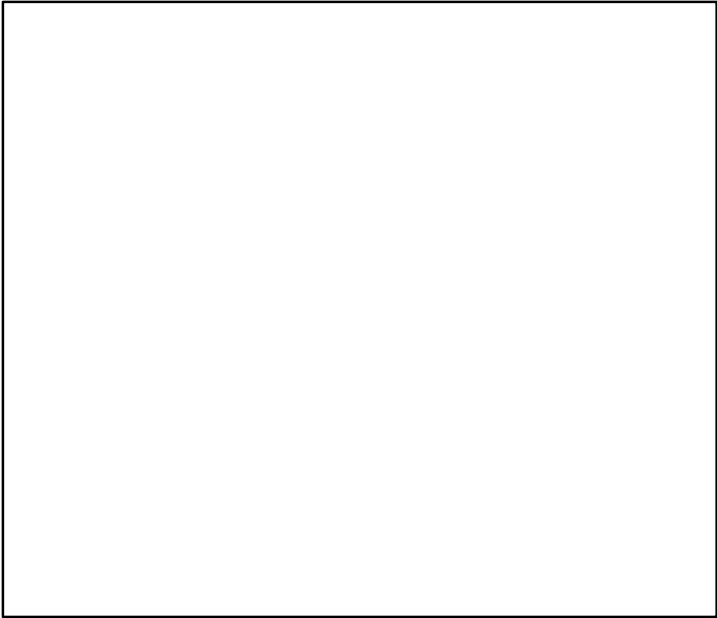
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European pollack ICES 8–9a [EPOLLVIII–IXa]

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

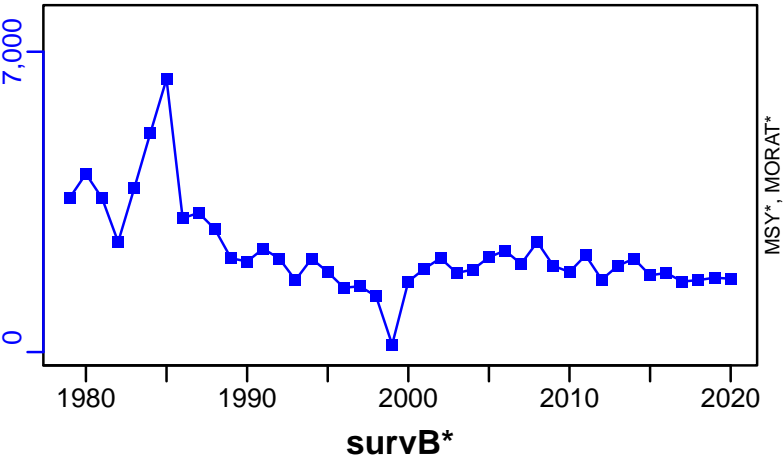
--- Lim BRP

— Rec-Est

* No Data

European pollack ICES 8–9a [EPOLLVIII–IXa]

TL–MT, TC*, RecC* (1979–2020–ICESIMP2021–2)



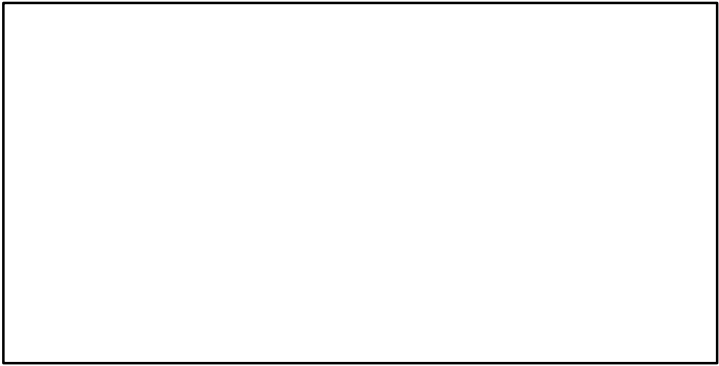
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



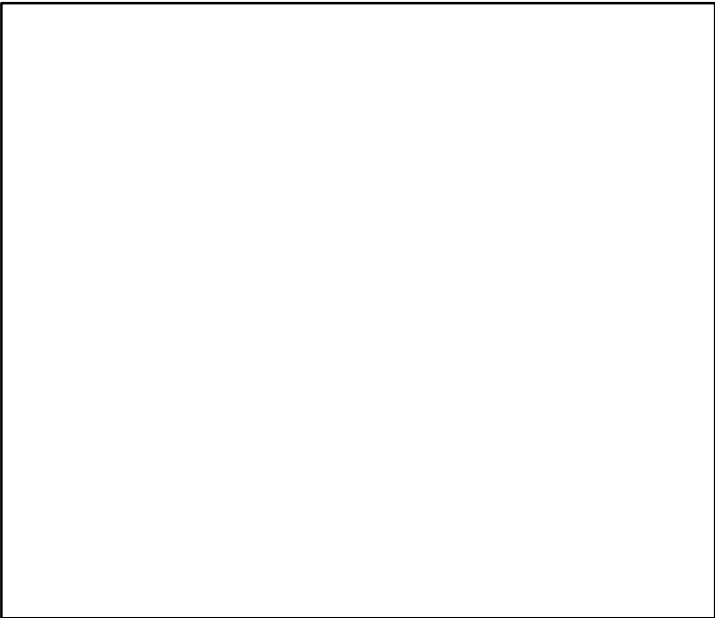
Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

Metadata	
Scientific Name	Phycis blennoides
Current Assess ID	STECF-GFORKBMEDGSA9-2007-2011-OSIO
Area	Ligurian and North Tyrrhenian 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

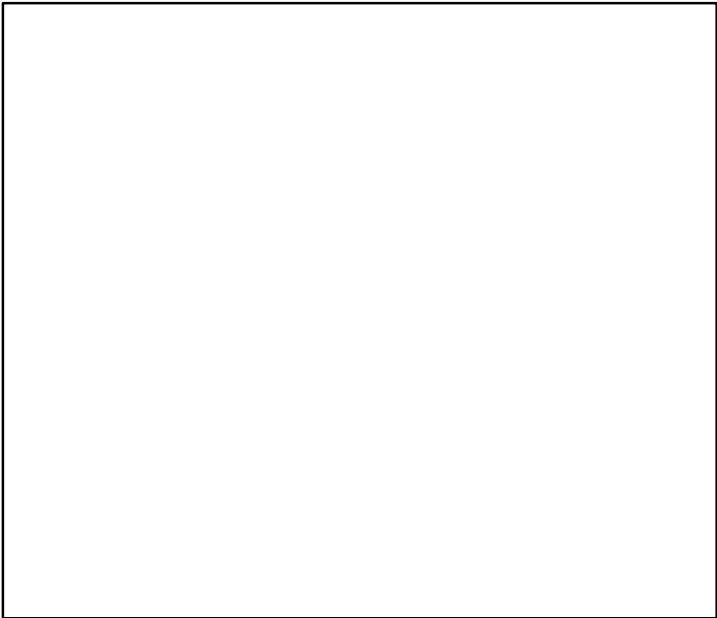
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	41		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

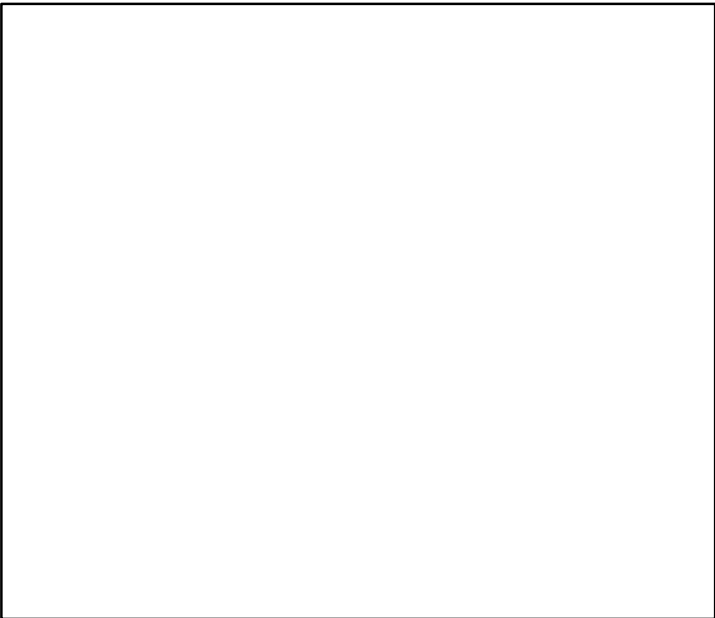
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

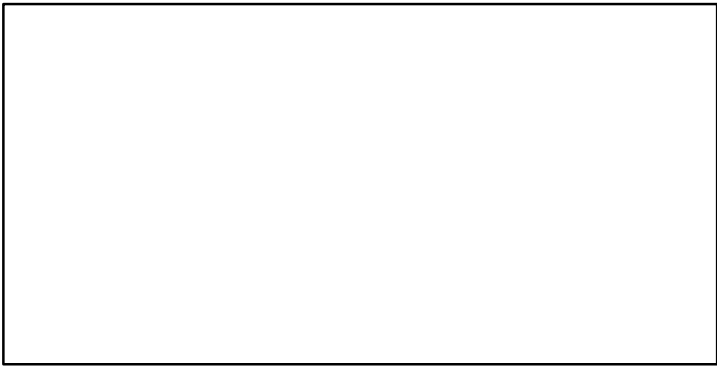
TB*



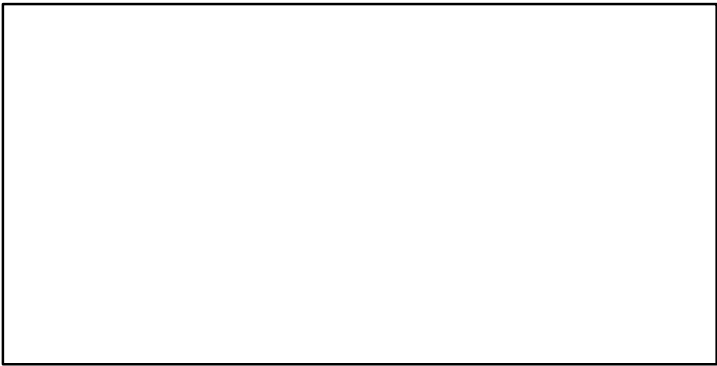
SSB*



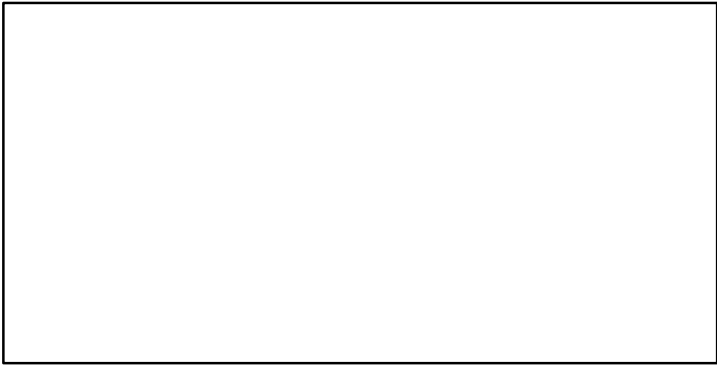
TN *



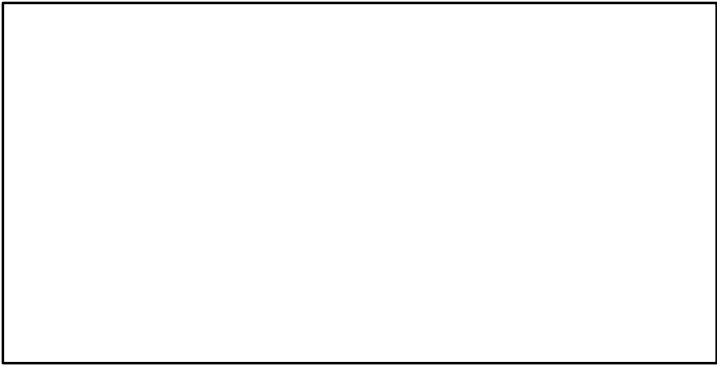
F*



ER*

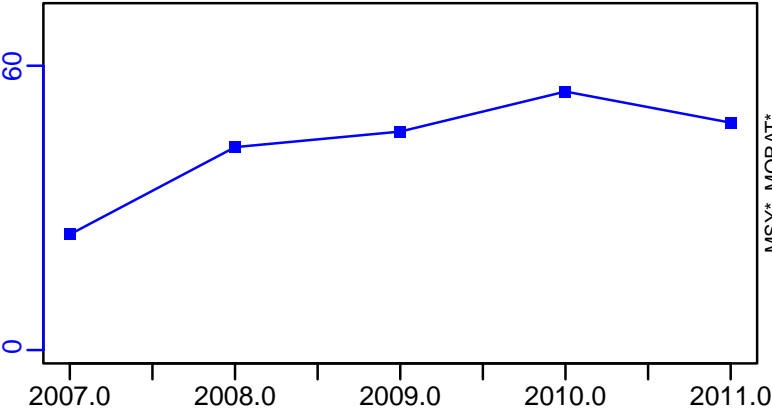


Recruits*

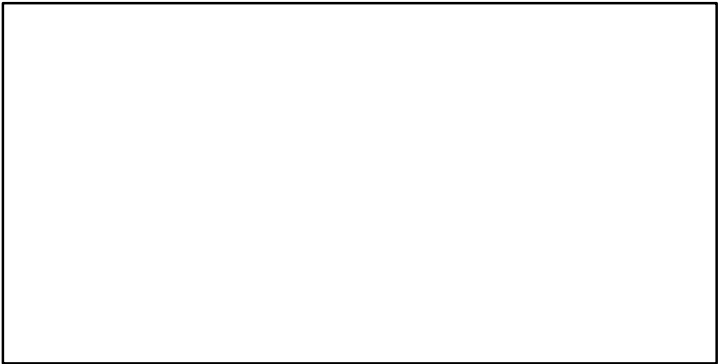


Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

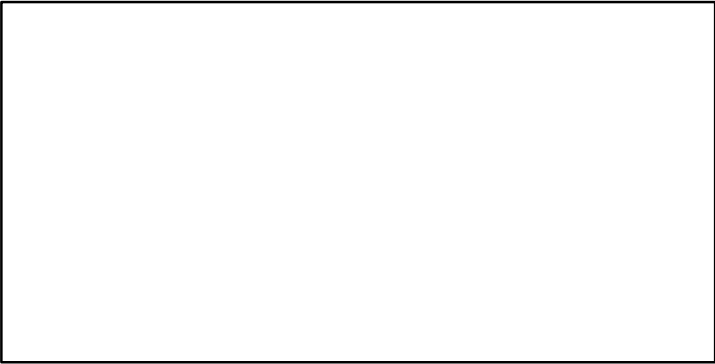
TC-MT, TL*, RecC* (2007-2011-OSIO)



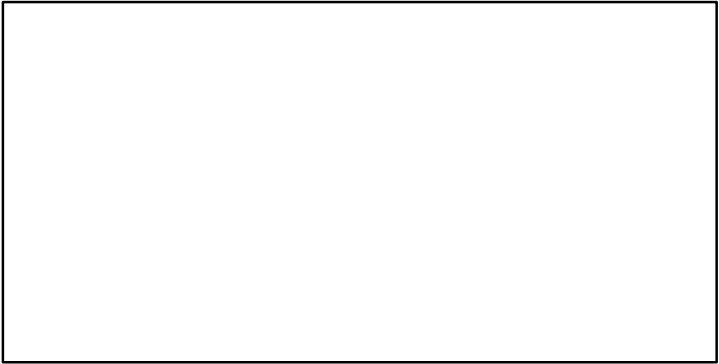
TAC*, Cpair*, Cadv*



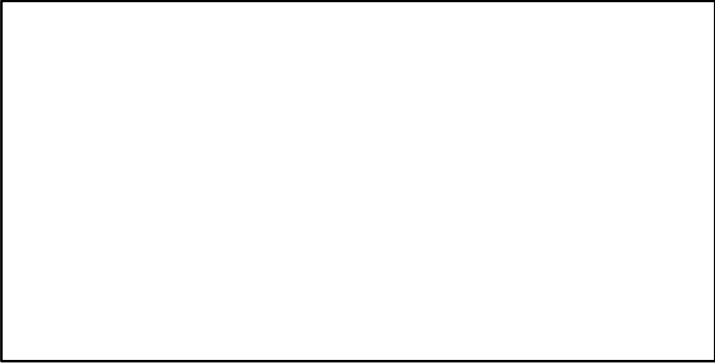
survB*



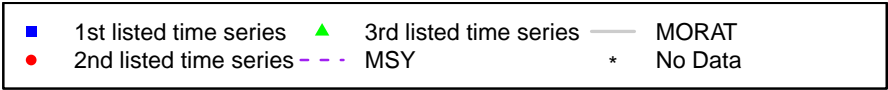
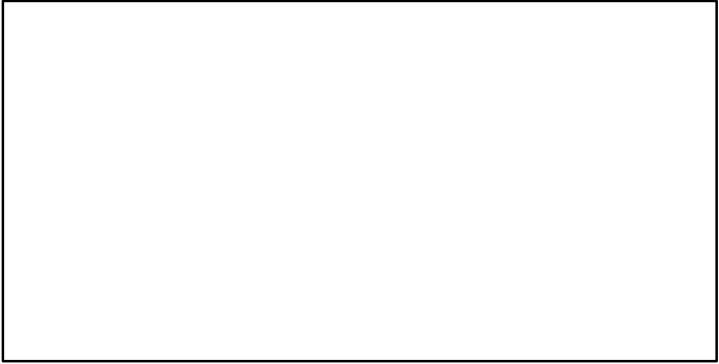
CPUE*



EFFORT*



CdivMSY*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

Metadata	
Scientific Name	Phycis blennoides
Current Assess ID	WGDEEP-GFORKNEATL-2005-2019-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017, 2019

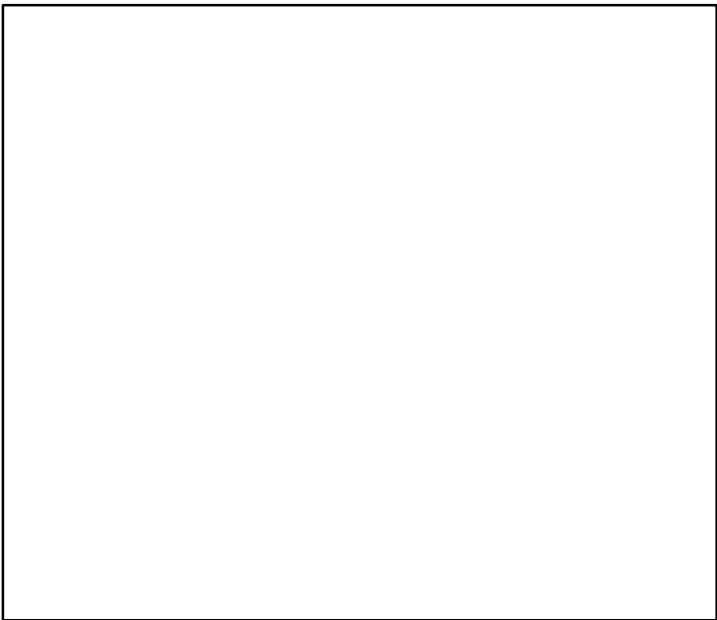
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	2220		
TL	TL-MT	2019	1850		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

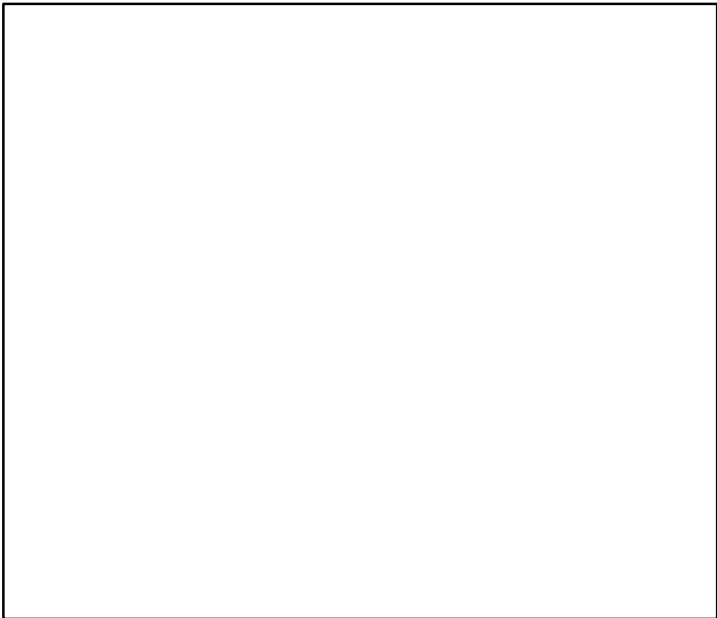
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Greater forkbeard Northeast Atlantic [GFORKNEATL]

TB*



SSB*



TN *



F*



ER*

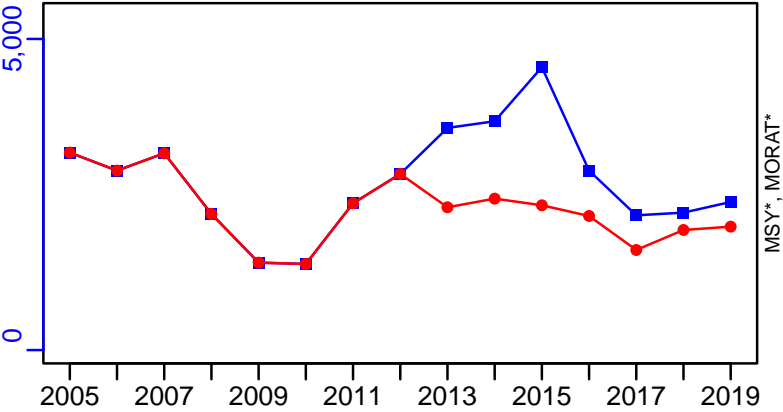


Recruits*

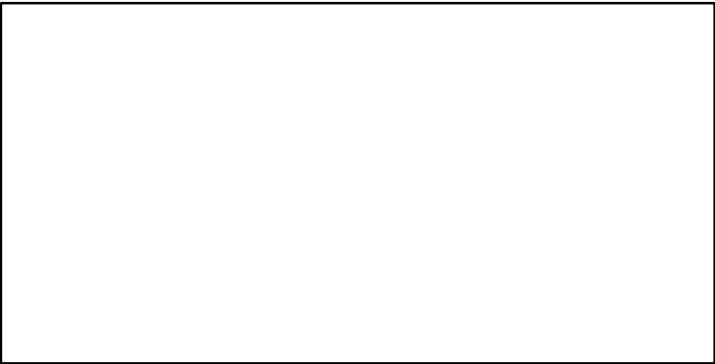


Greater forkbeard Northeast Atlantic [GFORKNEATL]

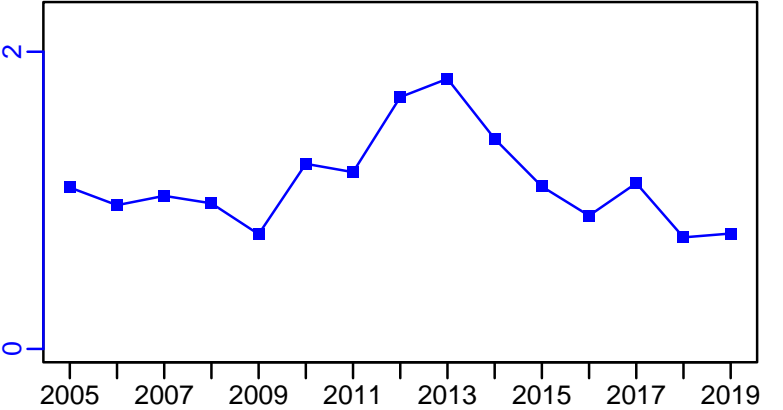
TC-MT, TL-MT, RecC* (2005-2019-ICESIMP2021-2)



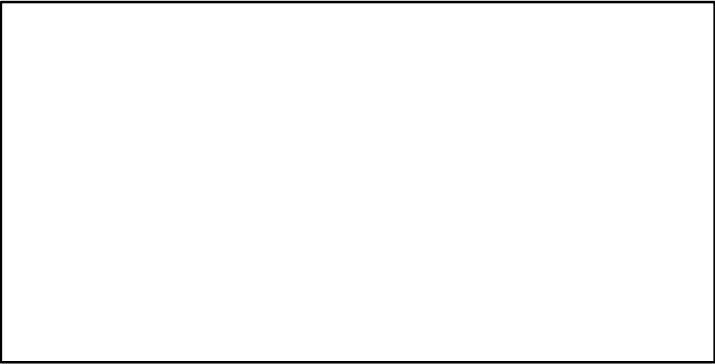
TAC*, Cpair*, Cadv*



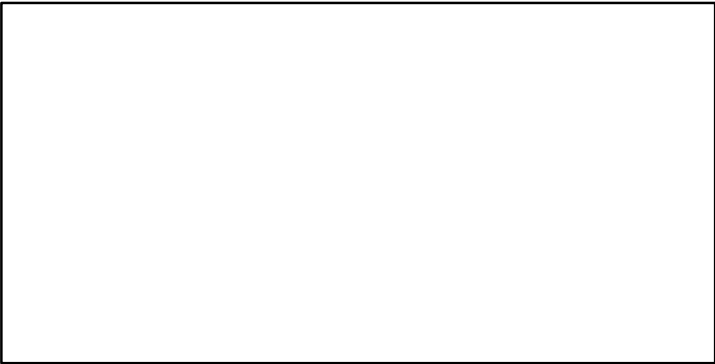
survB-MT (2005-2019-ICESIMP2021-2)



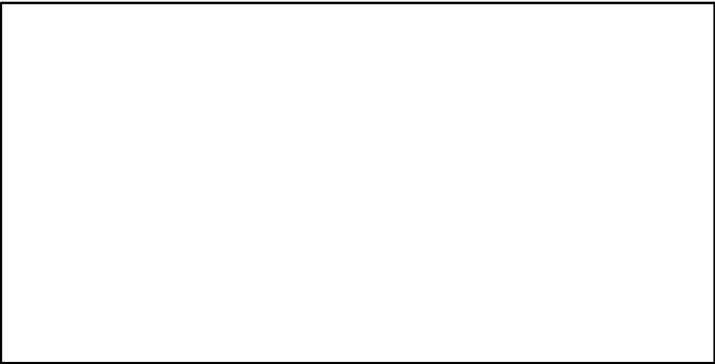
CPUE*



EFFORT*



CdivMSY*



Haddock Grand Banks [HAD3LNO]

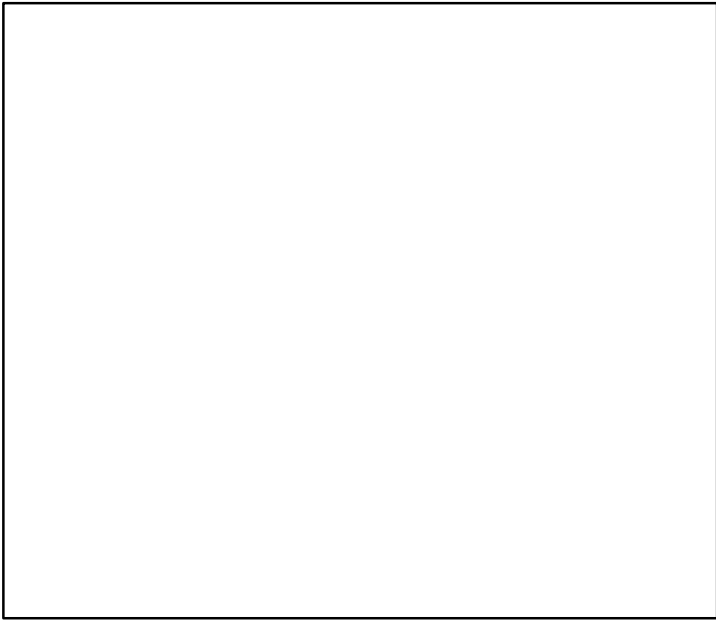
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NAFO-SC-HAD3LNO-1953-2017-ASHBROOK
Area	Grand Banks
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2013, 2017

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

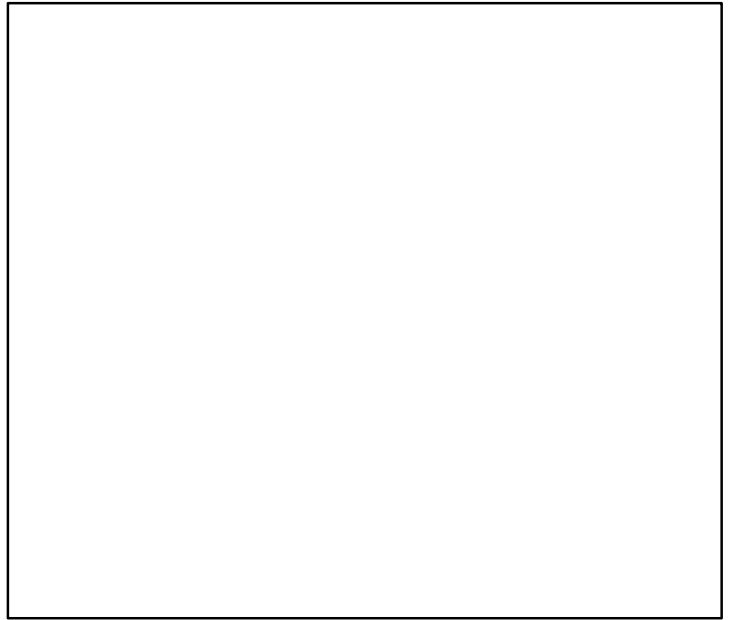
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	16,400	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	14,900,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.001	-	-
TC	TC-MT	2017	228		
TL	TL-MT	2013	21		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Grand Banks [HAD3LNO]

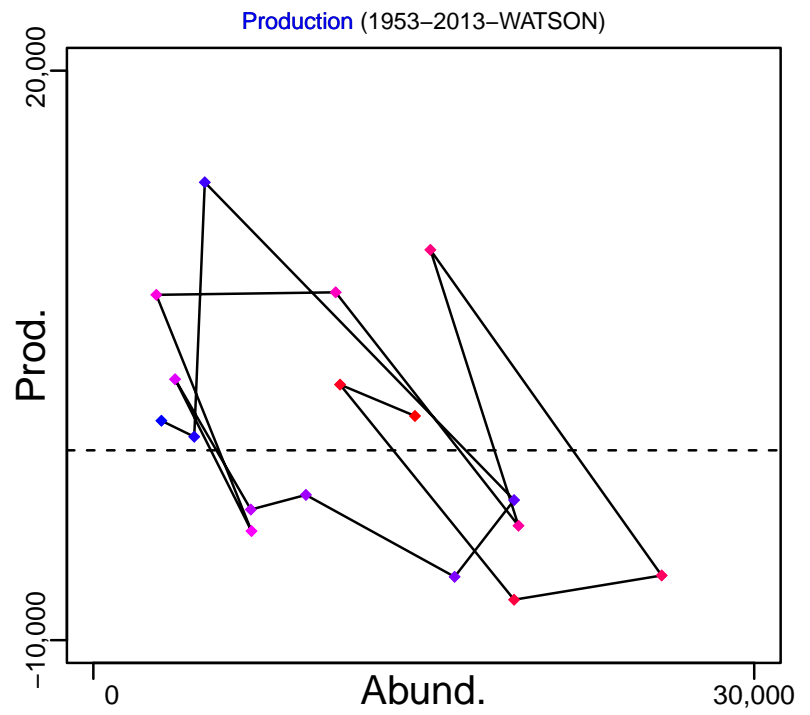
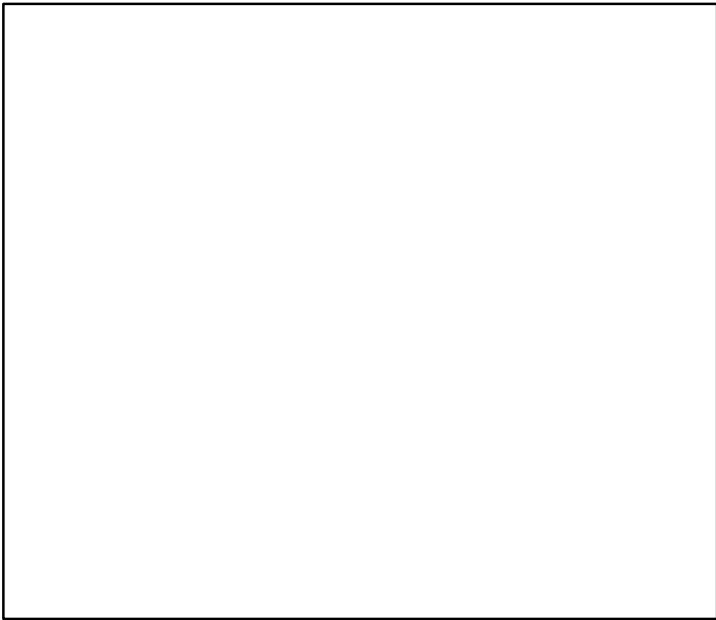
Kobe MSY*



Kobe MGT*



Spawner Recruit*

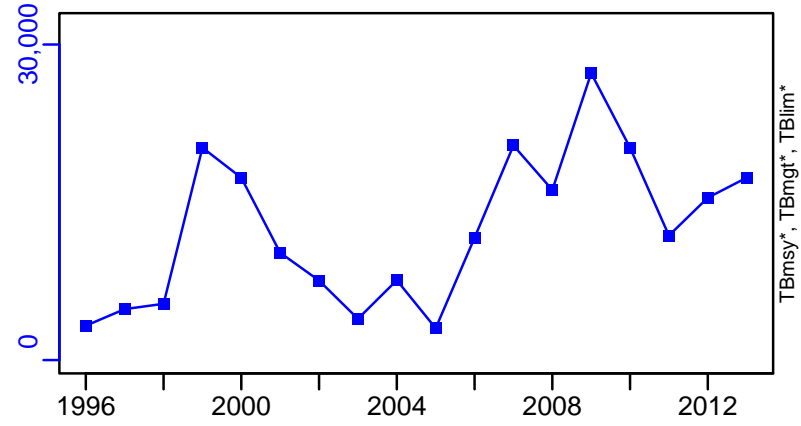


◆ Start Year ◆ End Year * No Data

Haddock Grand Banks [HAD3LNO]

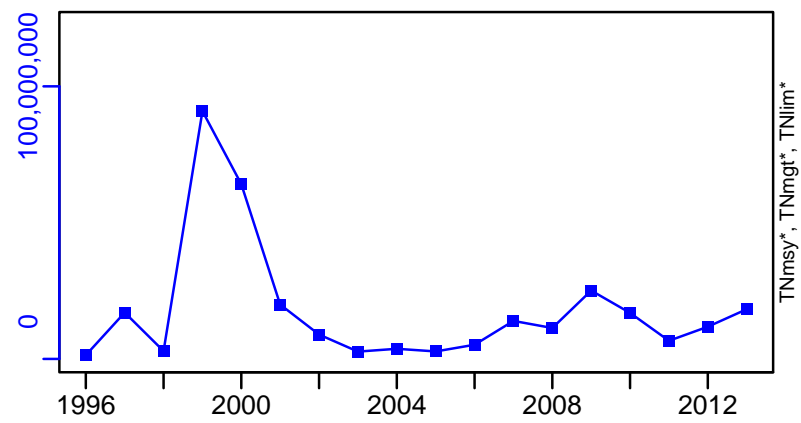
TB-MT (1953-2013-WATSON)

SSB*



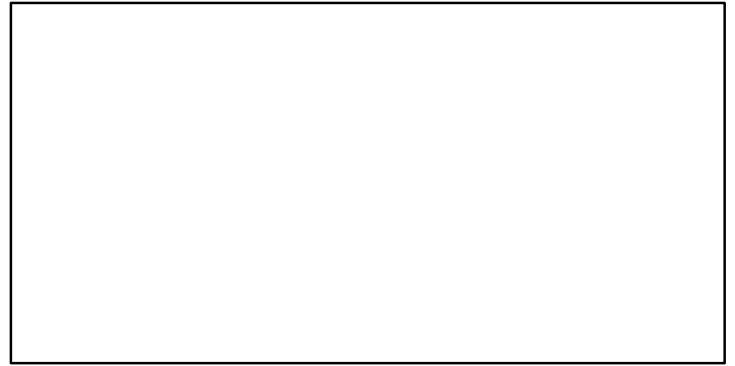
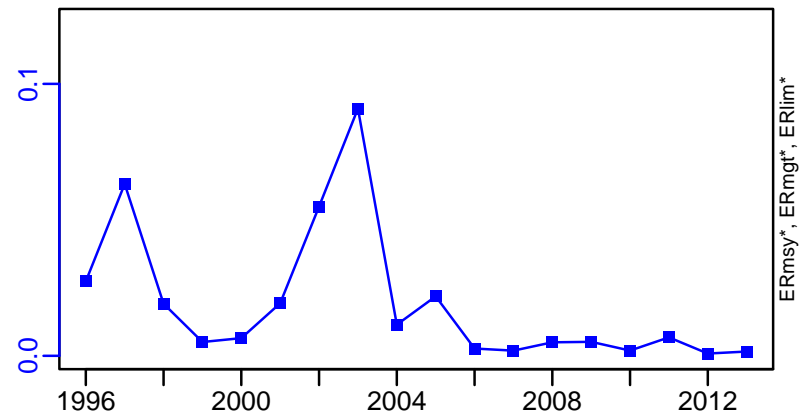
TN-E00 (1953-2013-WATSON)

F*



ER-calc-ratio (1953-2013-WATSON)

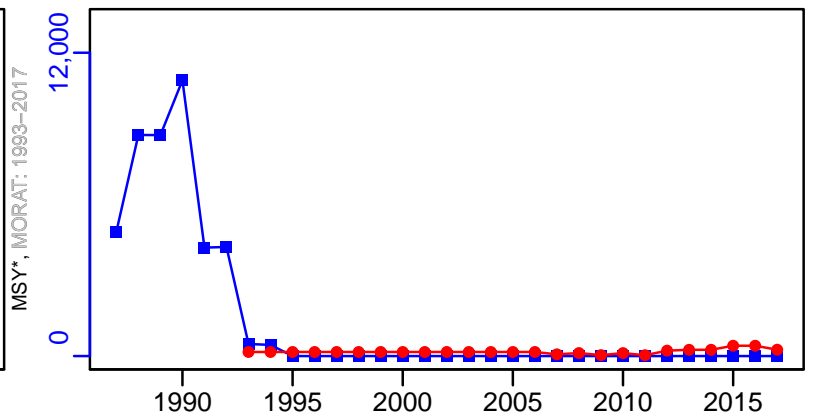
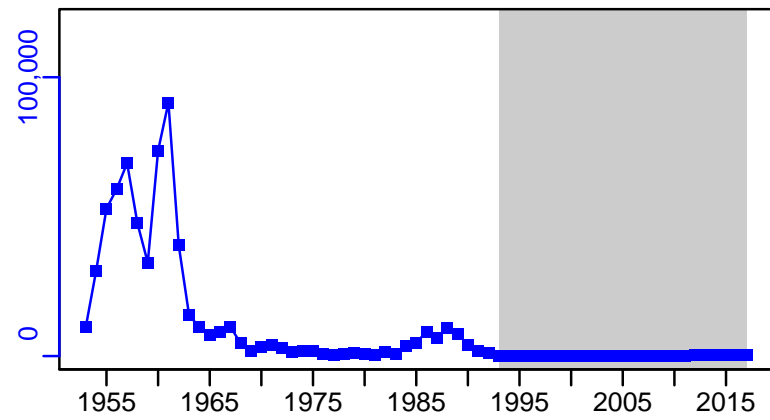
Recruits*



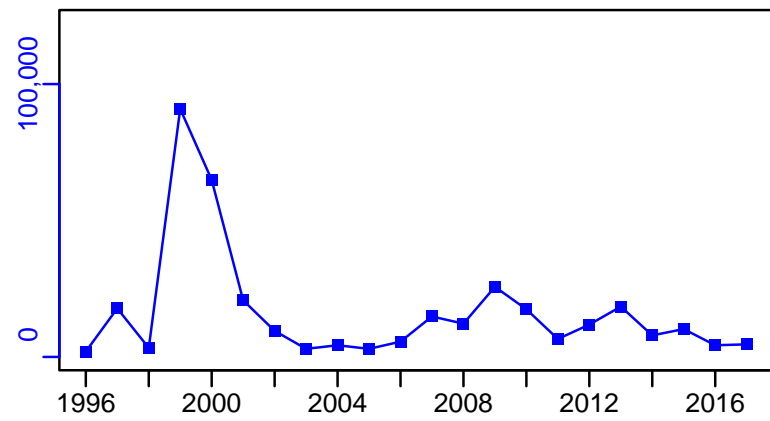
Haddock Grand Banks [HAD3LNO]

TC-MT, TL*, RecC* (1953-2017-ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1953-2017-ASHBROOK)



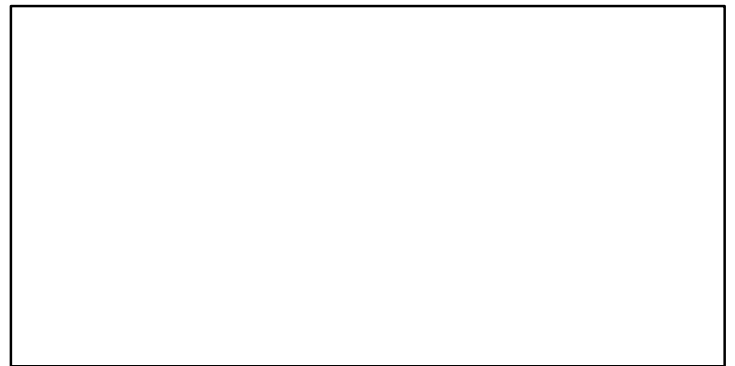
survB-E00 (1953-2017-ASHBROOK)



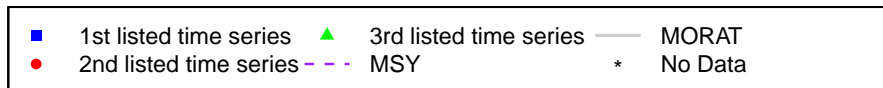
EFFORT*



CPUE*



CdivMSY*



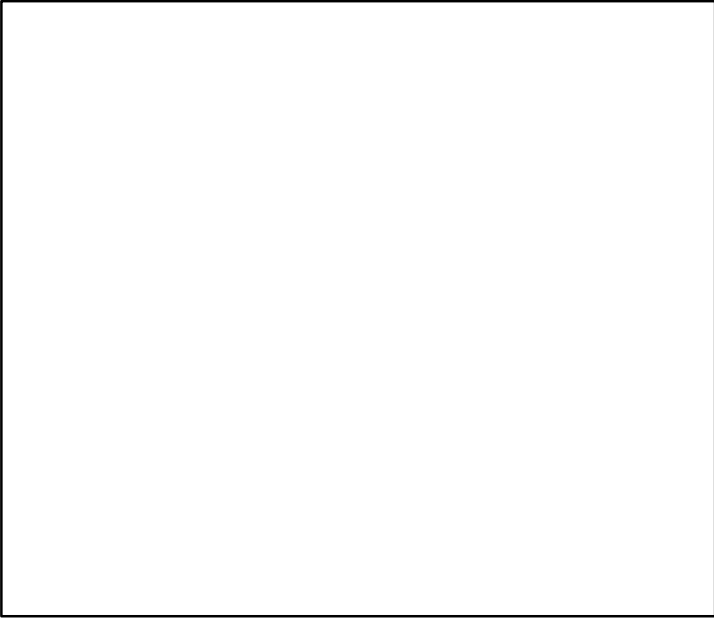
Haddock St. Pierre Bank [HAD3Ps]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	DFO-NFLD-HAD3Ps-1953-2018-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	2018

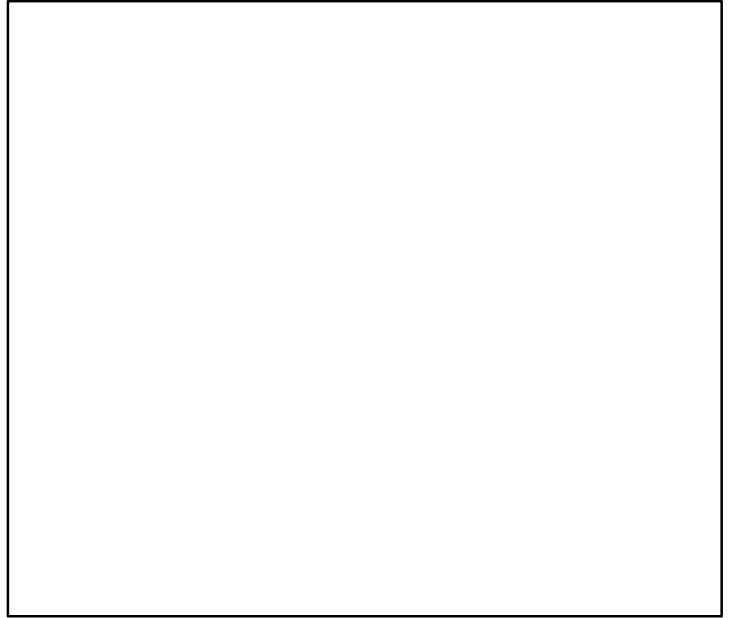
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	0.254		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

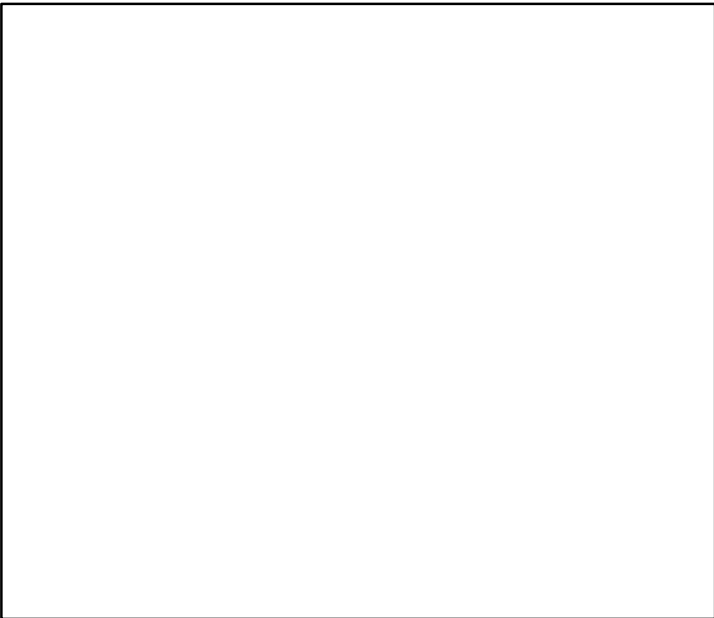
Kobe MSY*



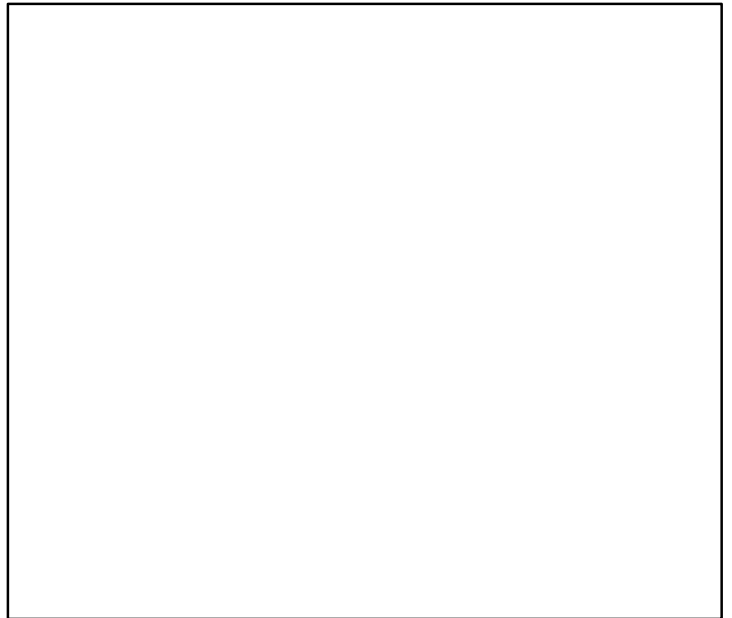
Kobe MGT*



Spawner Recruit*



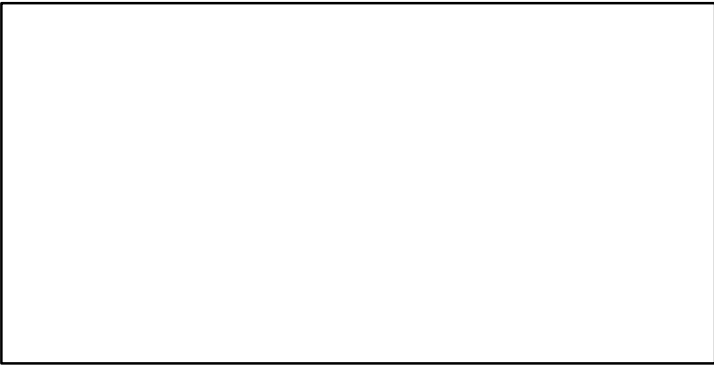
Production*



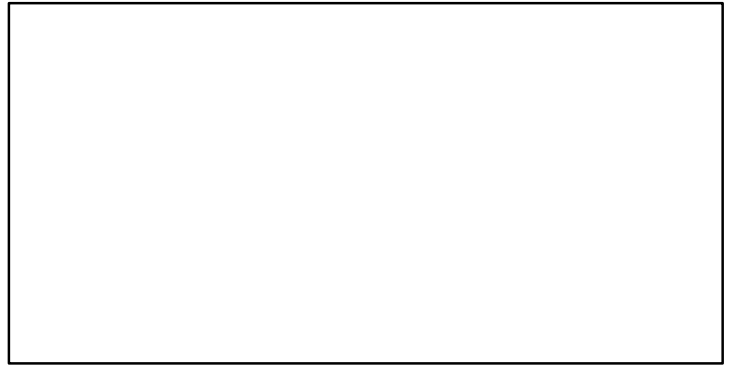
◆ Start Year ◆ End Year * No Data

Haddock St. Pierre Bank [HAD3Ps]

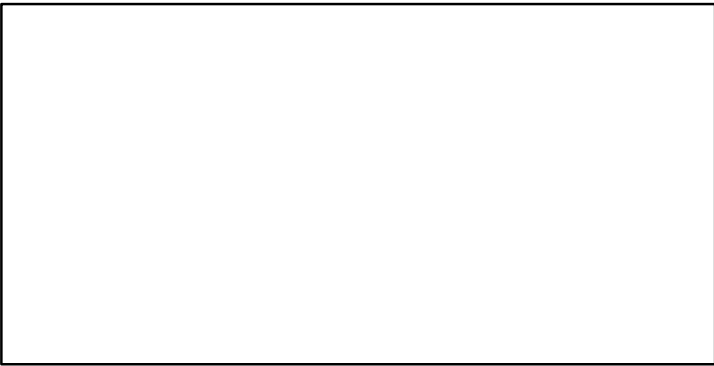
TB*



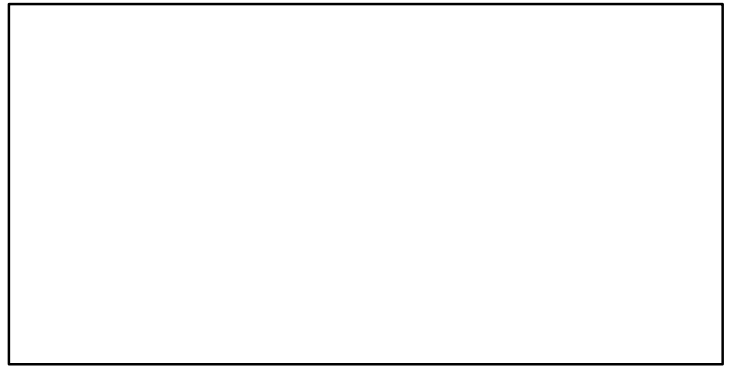
SSB*



TN *



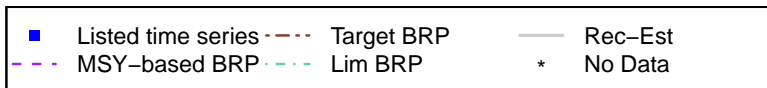
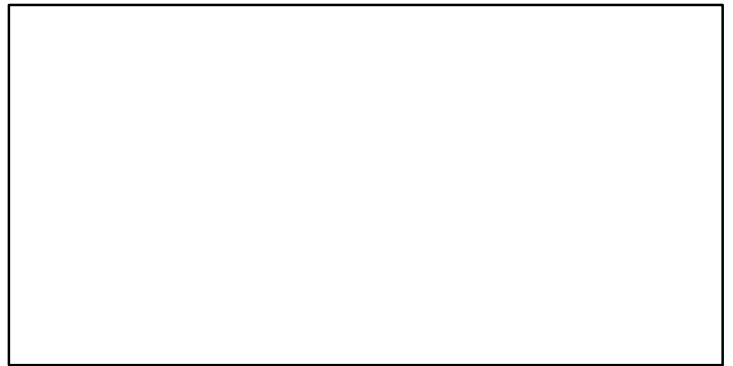
F*



ER*

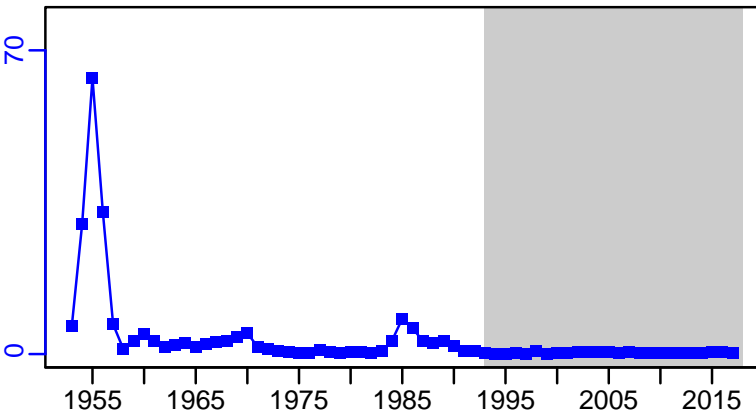


Recruits*

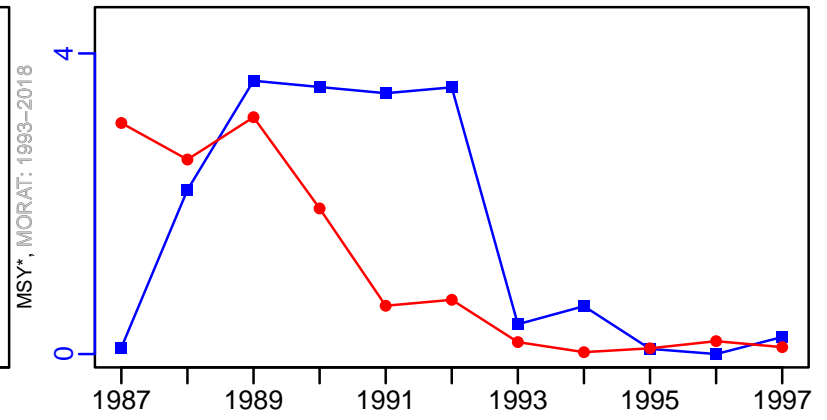


Haddock St. Pierre Bank [HAD3Ps]

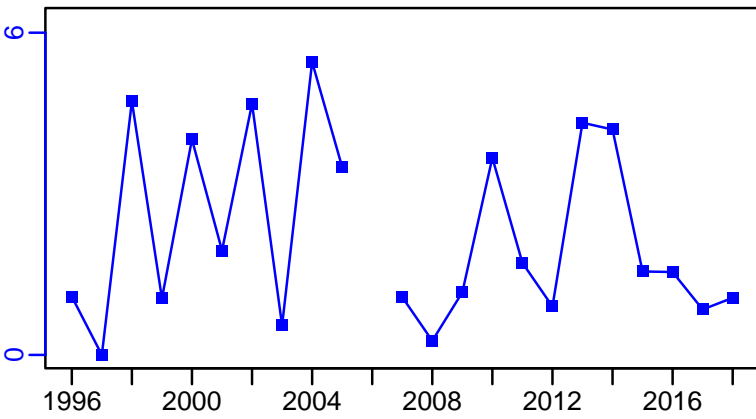
TC-MT, TL*, RecC* (1953–2018–ASHBROOK)



TAC-MT, Cpair-MT, Cadv* (1953–2018–ASHBROOK)



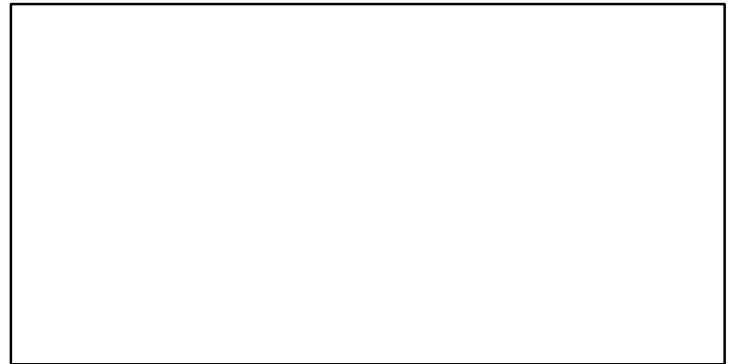
survB-1-index (1953–2018–ASHBROOK)



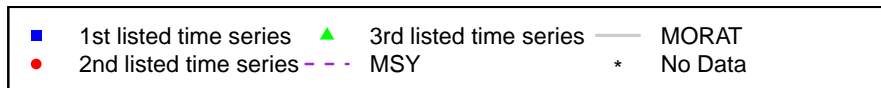
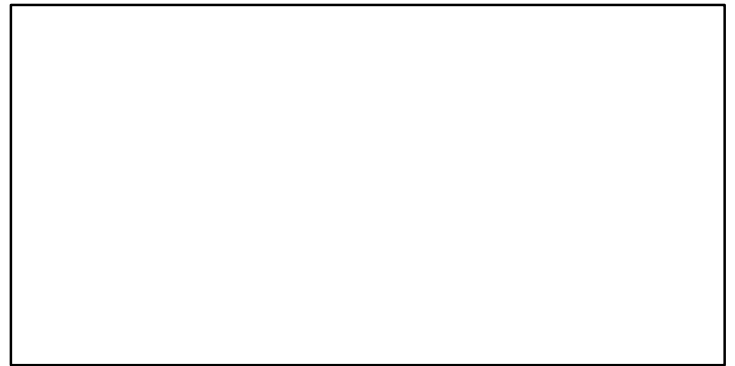
EFFORT*



CPUE*



CdivMSY*



Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine [HAD4X5Y]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	DFO-MAR-HAD4X5Y-1970-2016-ASHBROOK
Area	Western Scotian Shelf, Bay of Fundy and Gulf of Maine
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2014, 2011, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	52,000
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	14,700
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	19,700
Flim	Flim-1/yr	2016	0.149
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	42,900	Both	-
SSB	SSB-MT	2016	34,147	-	4+
TN	-	-	-	-	-
R	R-E00	2016	74,730,530	-	1
F	F-1/yr	2016	0.048	-	10-Jun
ER	ER-calc-ratio	2014	0.096	-	-
TC	TC-MT	2014	3520		
TL	TL-MT	2016	2926		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.821		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.191		
ER/ERmgt	-	-	-		

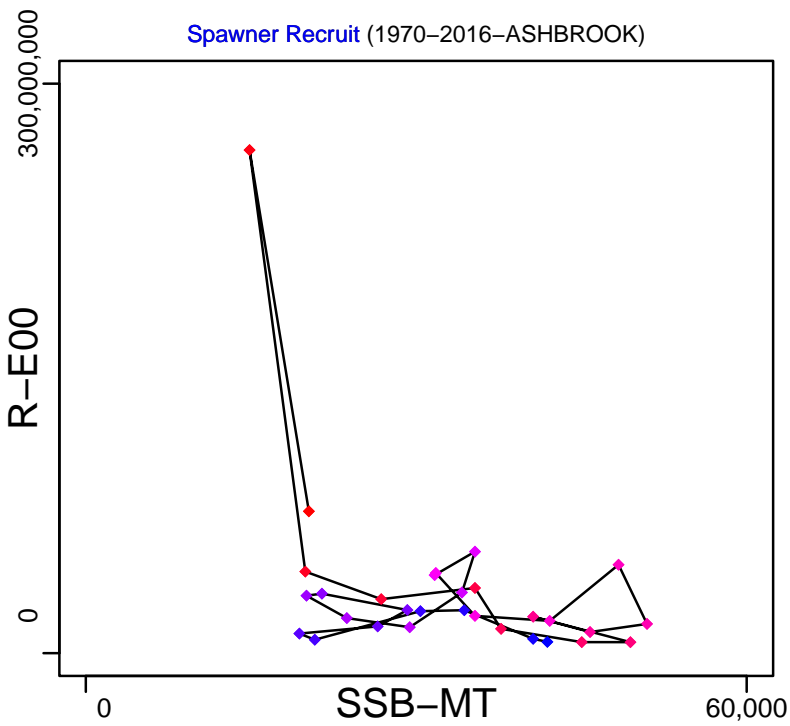
Kobe MSY*



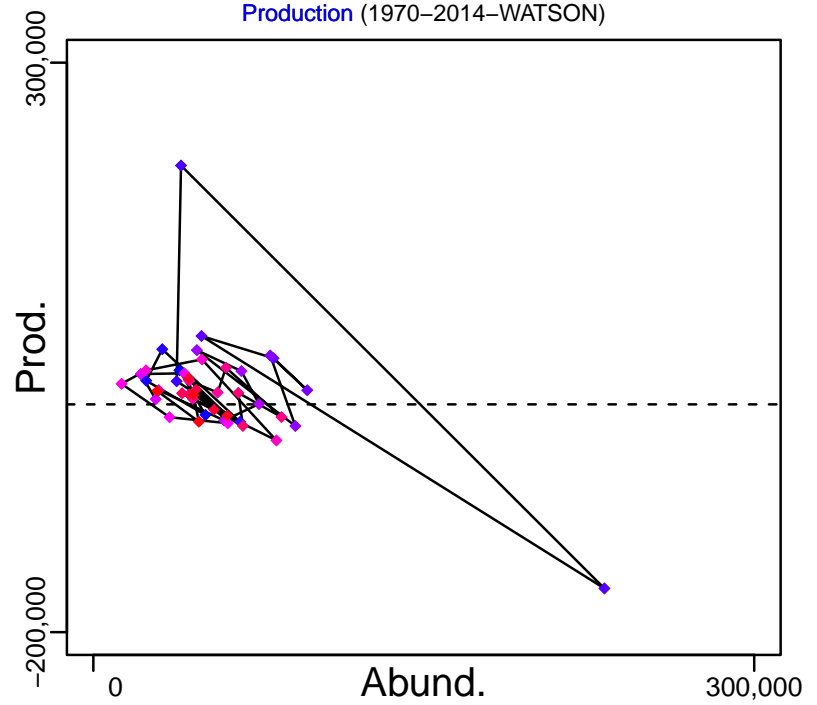
Kobe MGT*



Spawner Recruit (1970–2016–ASHBROOK)



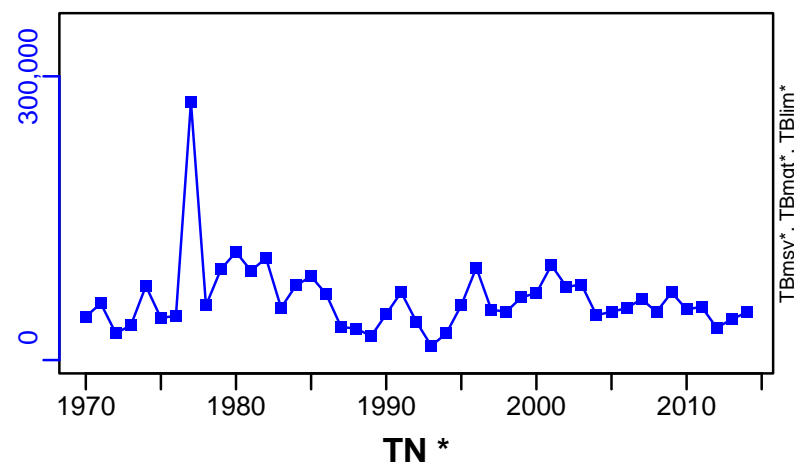
Production (1970–2014–WATSON)



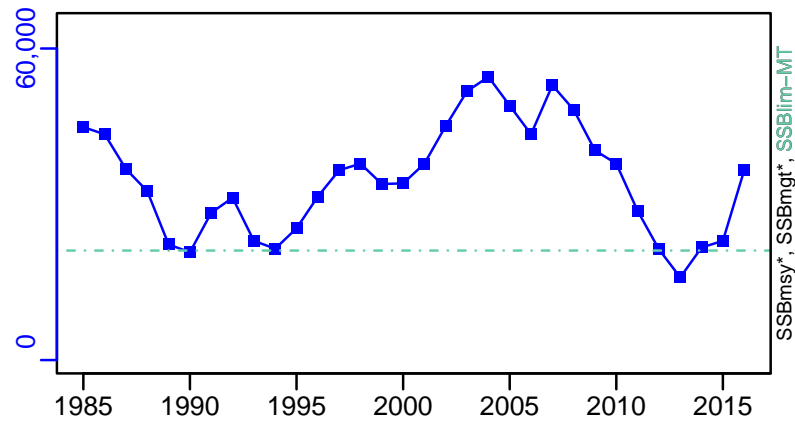
◆ Start Year ◆ End Year * No Data

Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine [HAD4X5Y]

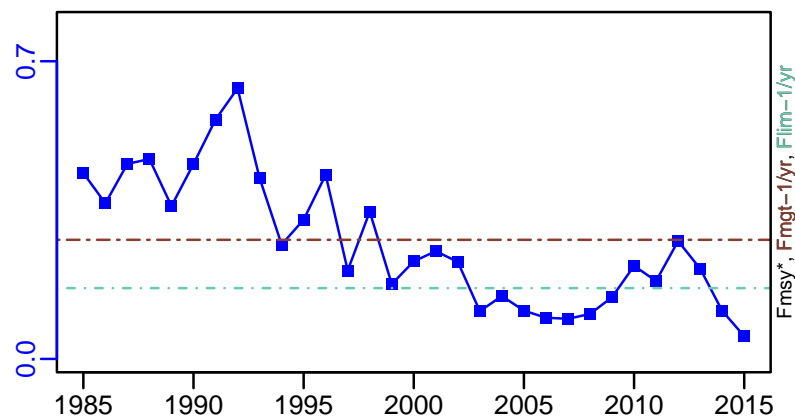
TB-MT (1970–2014–WATSON)



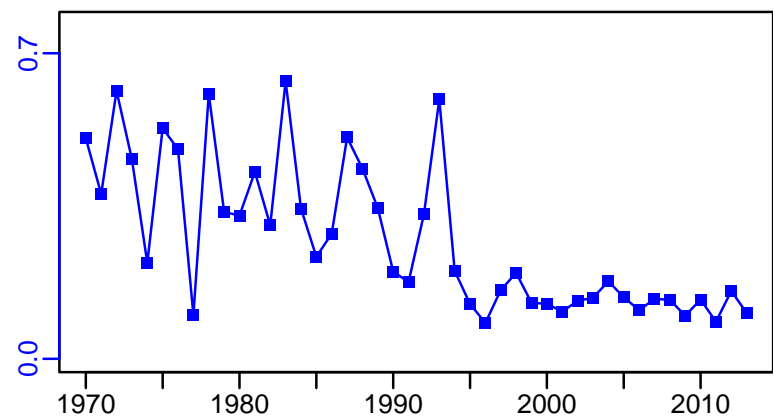
SSB-MT (1970–2016–ASHBROOK)



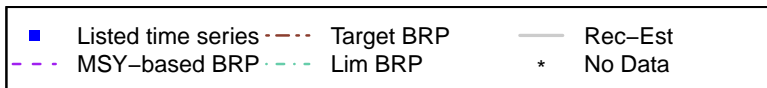
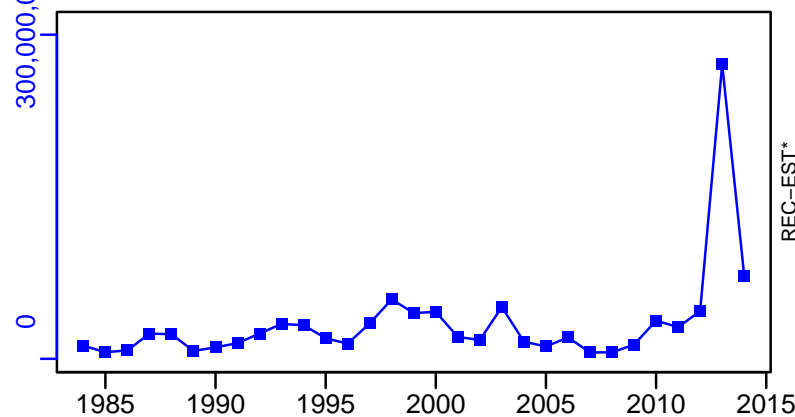
F-1/yr (1970–2016–ASHBROOK)



ER-calc-ratio (1970–2014–WATSON)



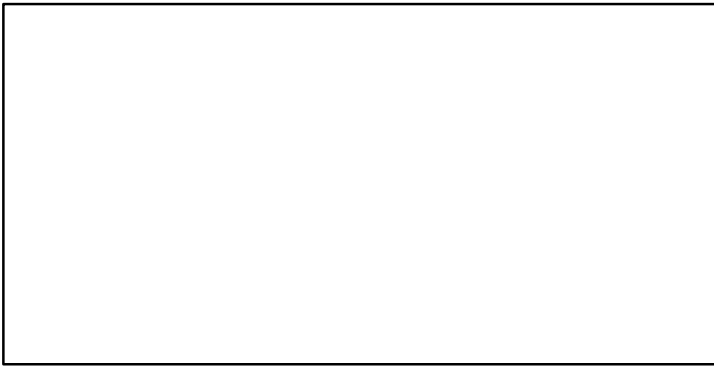
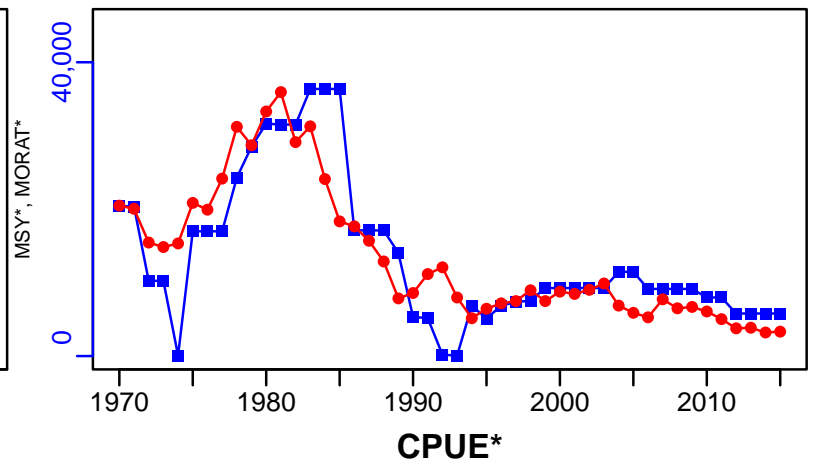
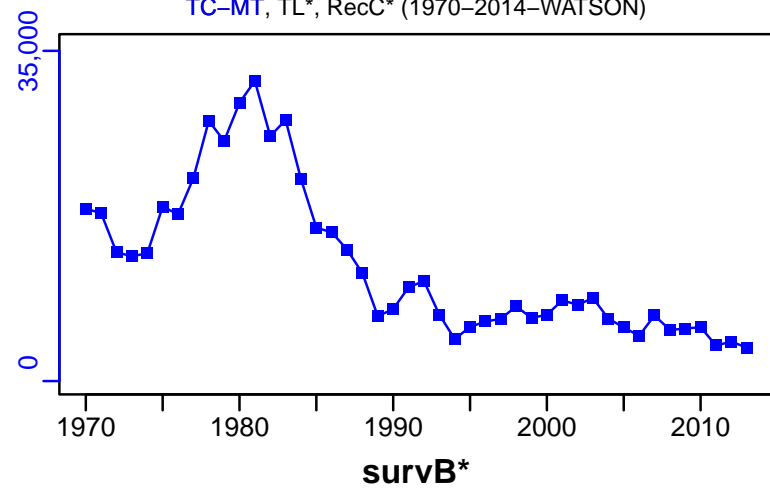
R-E00 (1970–2016–ASHBROOK)



Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine [HAD4X5Y]

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

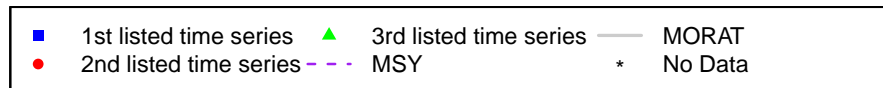
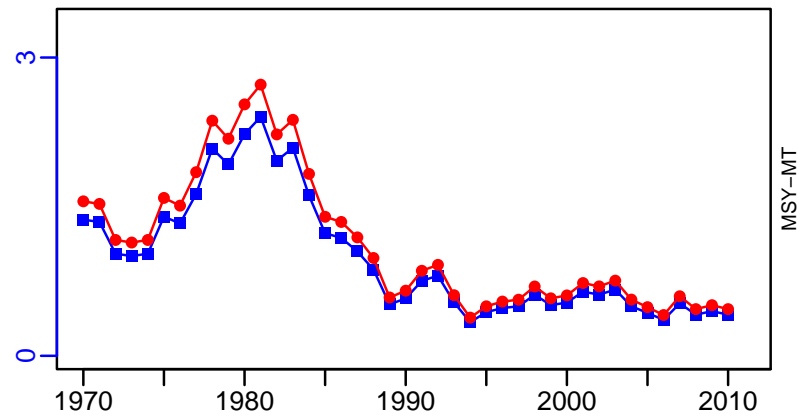
TAC-MT, Cpair-MT, Cadv* (1970-2016-ASHBROOK)



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1970-2011-CHING)



Haddock Gulf of Maine [HAD5Y]

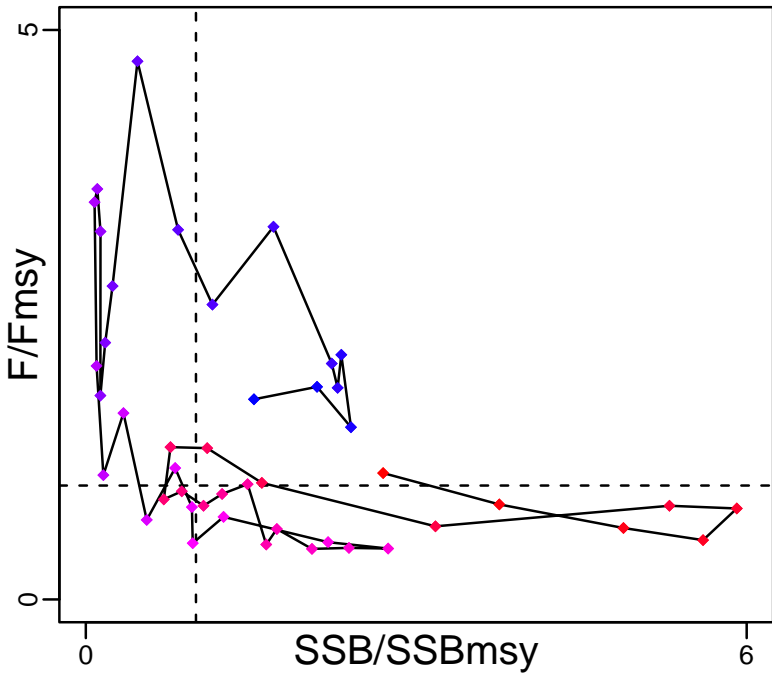
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HAD5Y-1976-2021-SISIMP2024
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2021, 2014, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	6123
Fmsy	Fmsy-1/yr	2021	0.338
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	1098
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	3062
Flim	Flim-1/yr	2018	0.369
ERlim	-	-	-

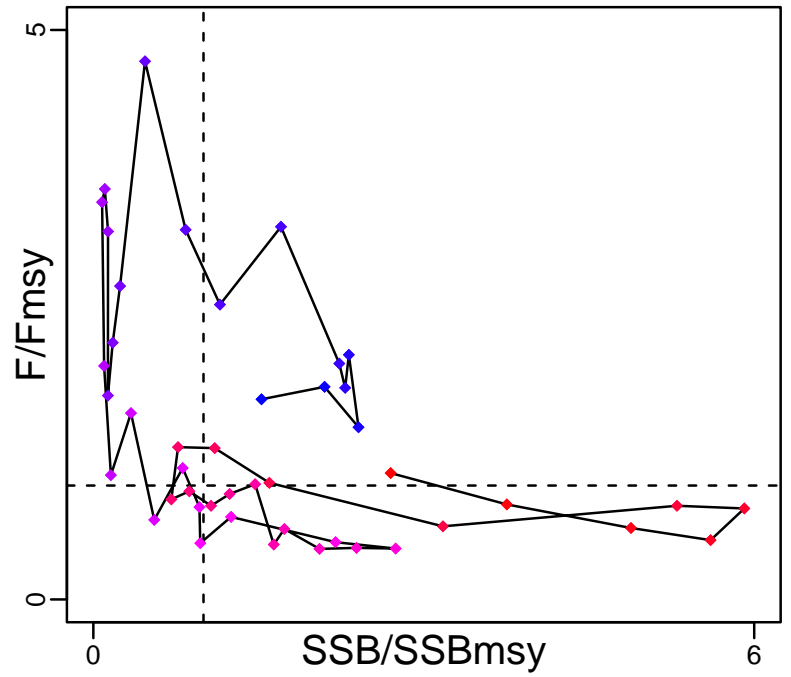
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	2580	-	-
SSB	SSB-MT	2021	16,528	-	-
TN	-	-	-	-	-
R	R-E00	2021	22,781	-	1
F	F-1/yr	2021	0.375	-	-
ER	ER-ratio	2011	0.359	-	-
TC	TC-MT	2021	4602		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	2.699		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.109		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Gulf of Maine [HAD5Y]

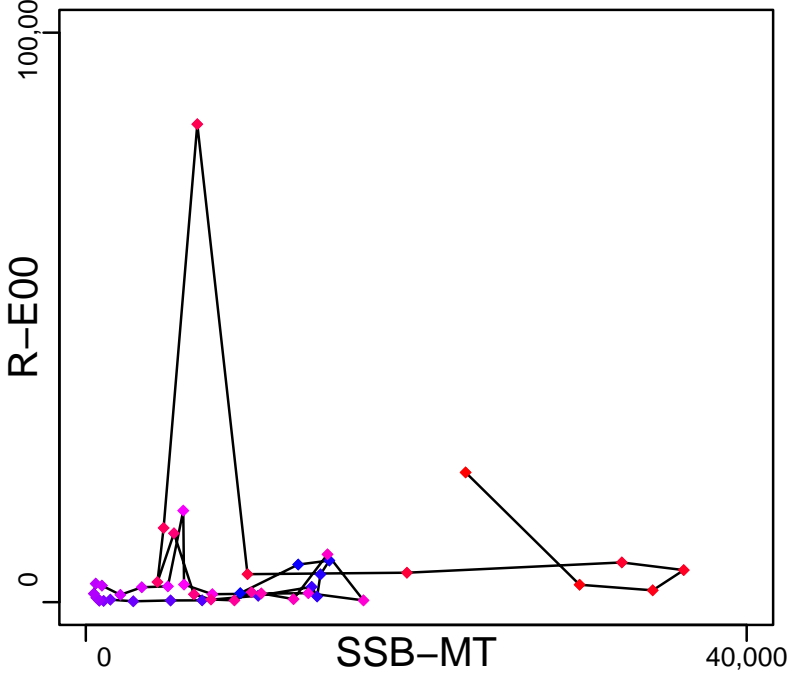
Kobe MSY_{pref} (1976–2021–SISIMP2024)



Kobe MGT_{pref} (1976–2021–SISIMP2024)



Spawner Recruit (1976–2021–SISIMP2024)



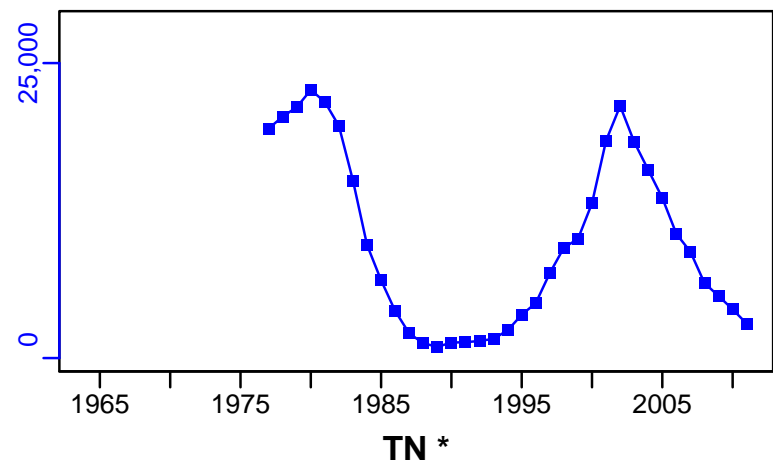
Production*



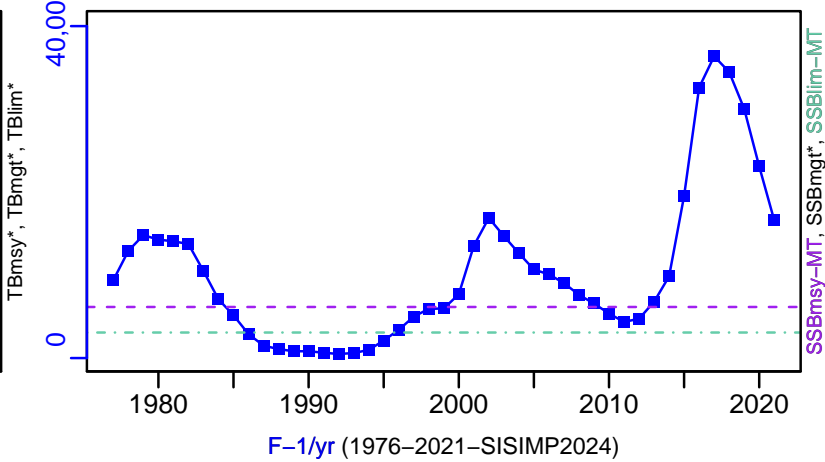
◆ Start Year ◆ End Year * No Data

Haddock Gulf of Maine [HAD5Y]

TB-MT (1964–2011–CHING)



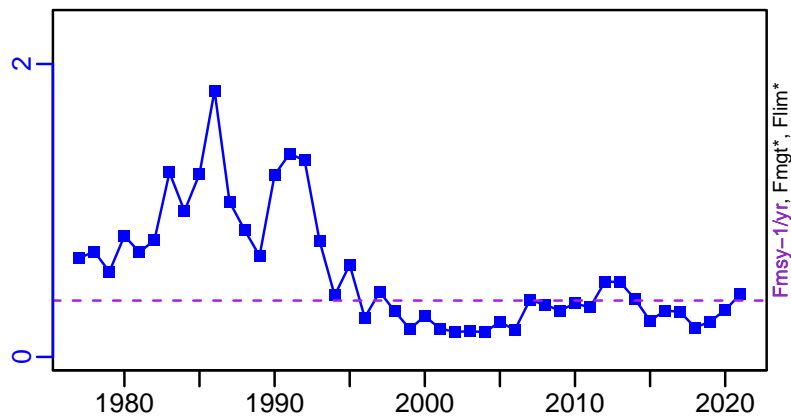
SSB-MT (1976–2021–SISIMP2024)



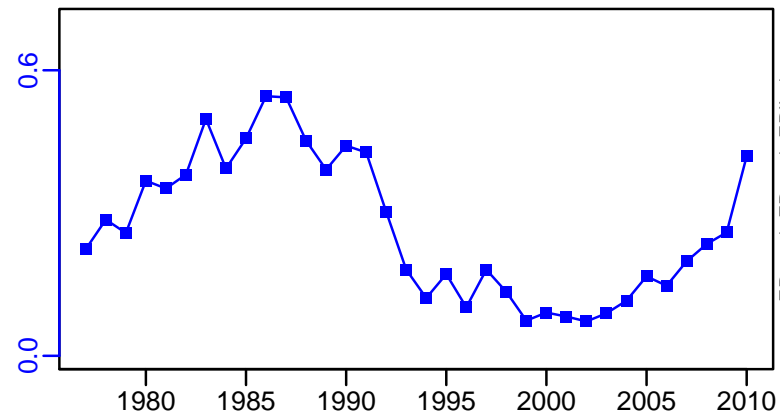
TN *



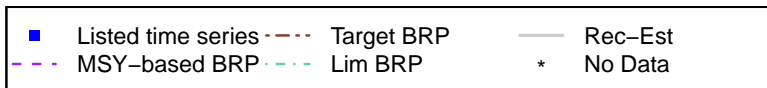
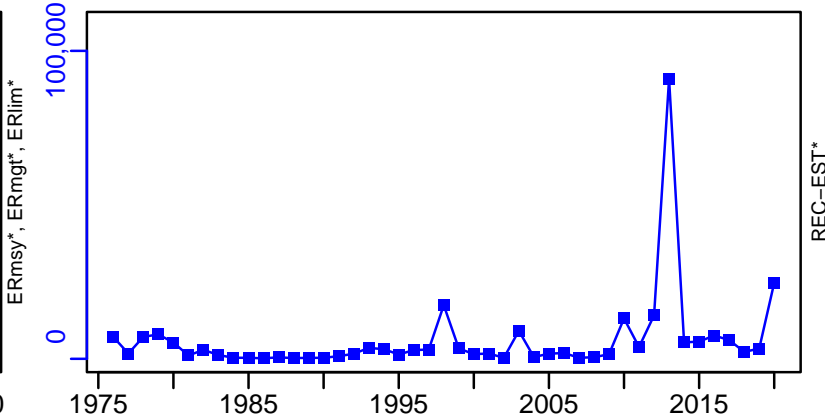
F-1/yr (1976–2021–SISIMP2024)



ER-ratio (1964–2011–CHING)

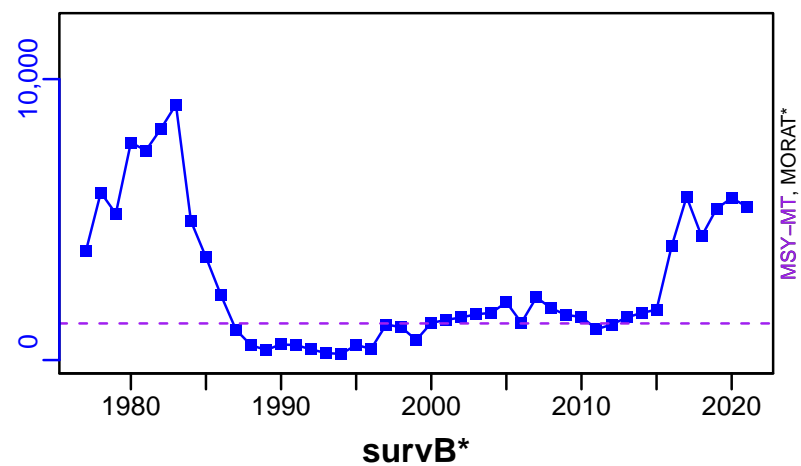


R-E00 (1976–2021–SISIMP2024)

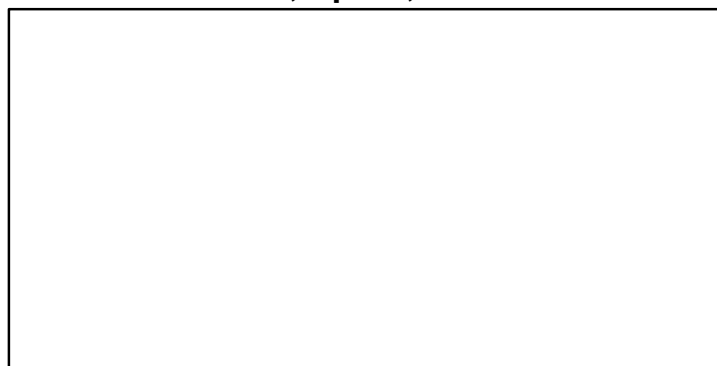


Haddock Gulf of Maine [HAD5Y]

TC-MT, TL*, RecC* (1976-2021-SISIMP2024)



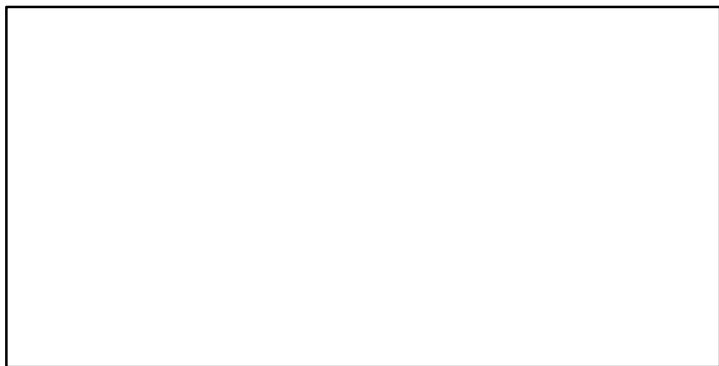
TAC*, Cpair*, Cadv*



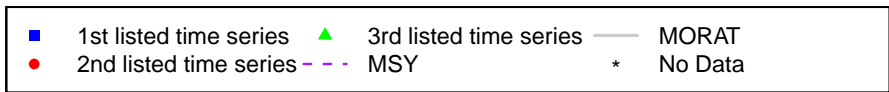
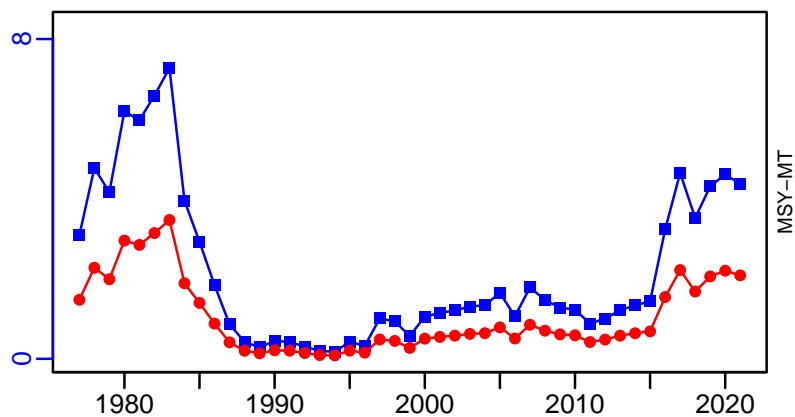
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1976-2021-SISIMP2024)



Haddock Faroe Plateau [HADFAPL]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NWWG-HADFAPL-1957-2020-ICESIMP2021-2
Area	Faroe Plateau
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.165
ERmsy	ERmsy-ratio	2019	0.165
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2020	0.165
ERmgt	ERmgt-ratio	2019	0.165
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	35,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	16,800
Flim	Flim-1/yr	2020	0.54
ERlim	-	-	-

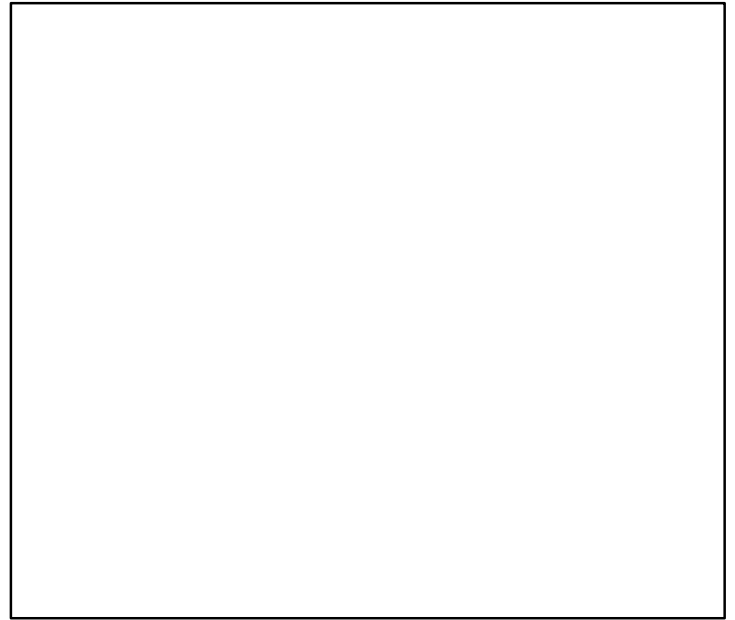
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	90,093	-	-
SSB	SSB-MT	2020	53,800	-	-
TN	-	-	-	-	-
R	R-E00	2020	9,950,000	-	1
F	F-1/yr	2020	0.289	-	-
ER	ER-ratio	2019	0.163	-	3 to 7
TC	TC-MT	2020	9330		
TL	TL-MT	2020	9330		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.752		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.988		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.752		
ER/ERmgt	-	-	-		

Haddock Faroe Plateau [HADFAPL]

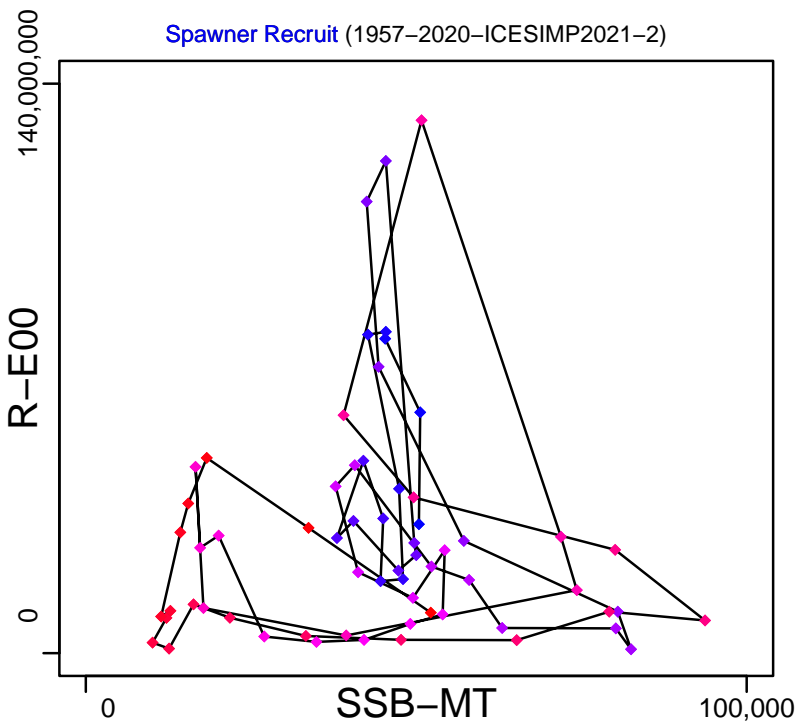
Kobe MSY*



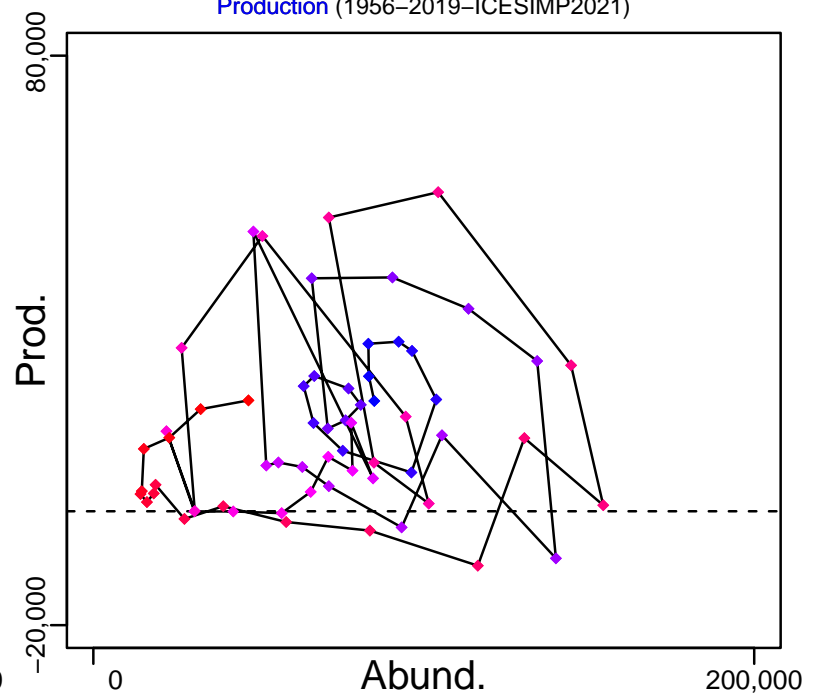
Kobe MGT*



Spawner Recruit (1957–2020–ICESIMP2021–2)



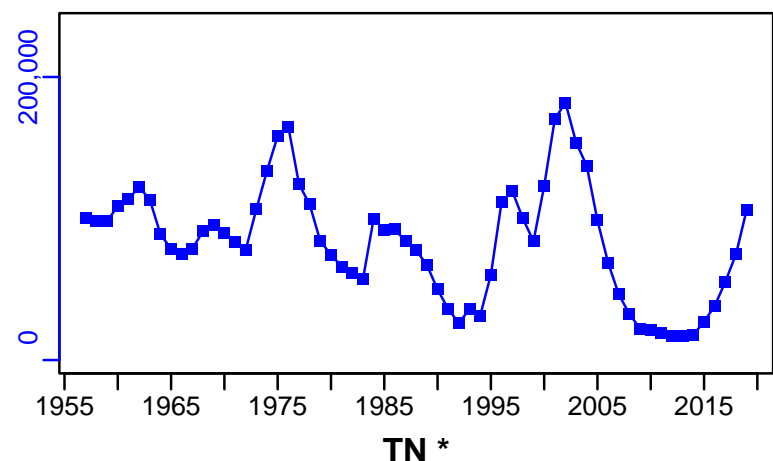
Production (1956–2019–ICESIMP2021)



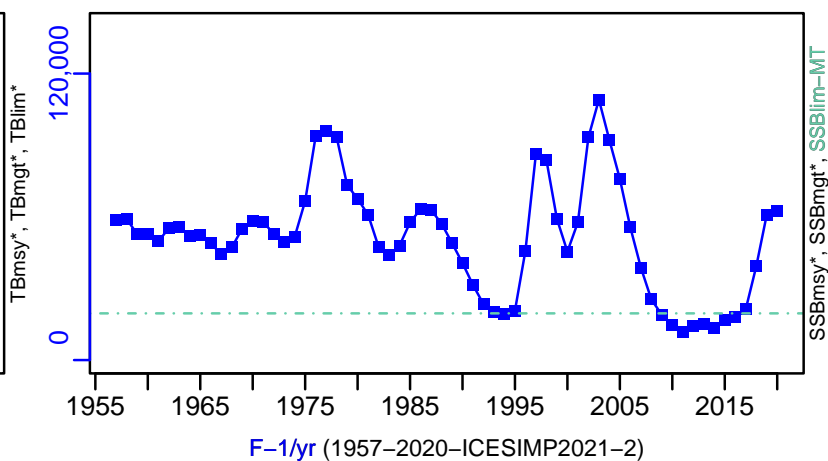
◆ Start Year ◆ End Year * No Data

Haddock Faroe Plateau [HADFAPL]

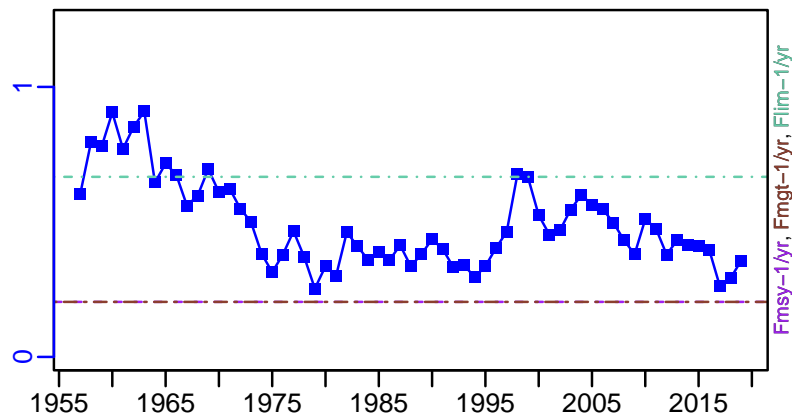
TB-MT (1956–2019–ICESIMP2021)



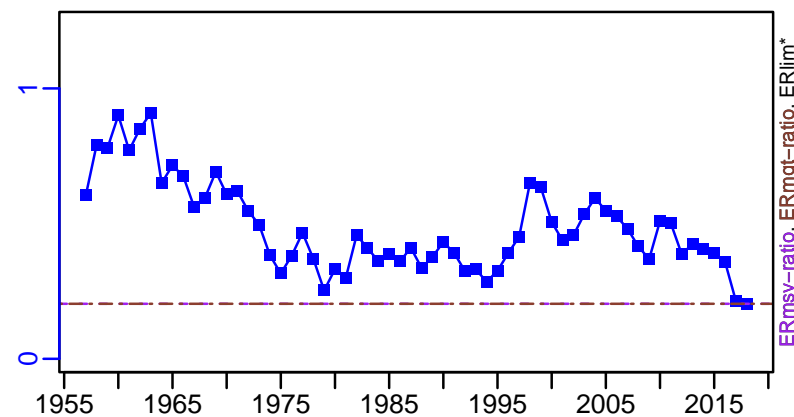
SSB-MT (1957–2020–ICESIMP2021–2)



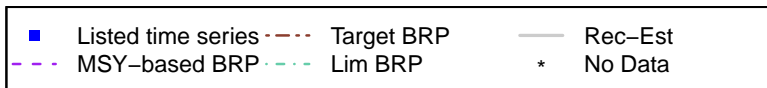
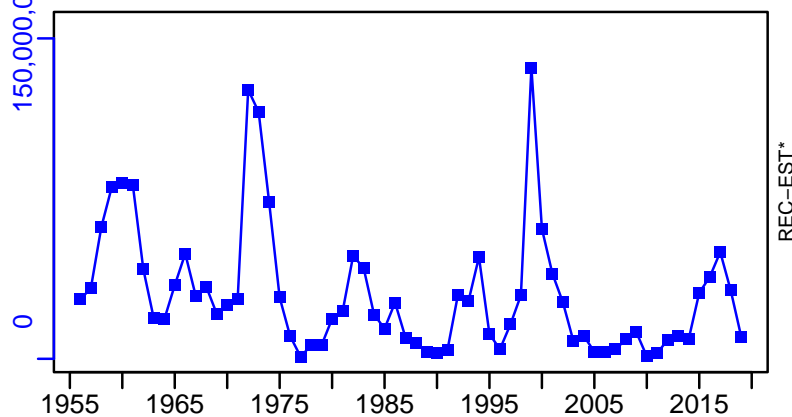
F-1/yr (1957–2020–ICESIMP2021–2)



ER-ratio (1956–2019–ICESIMP2021)



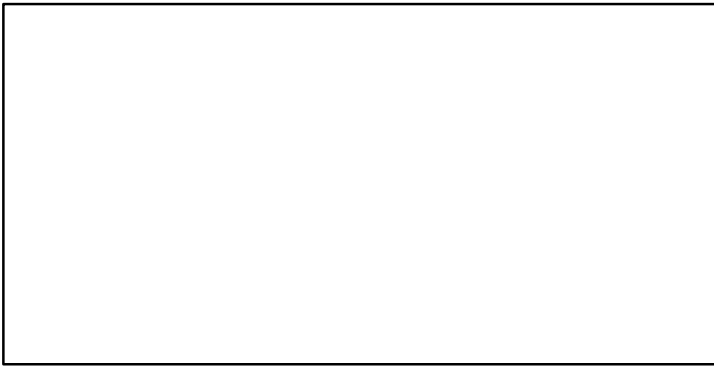
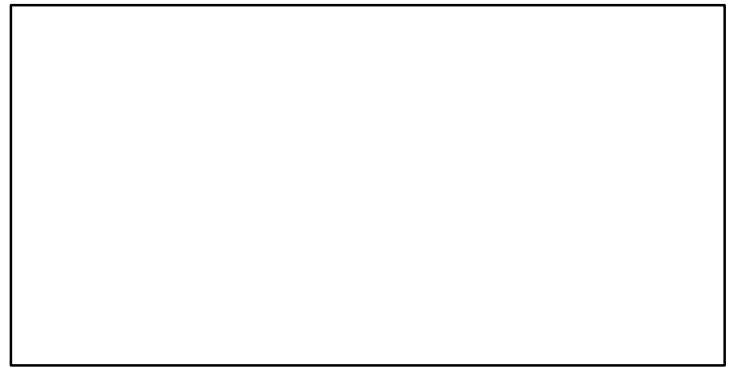
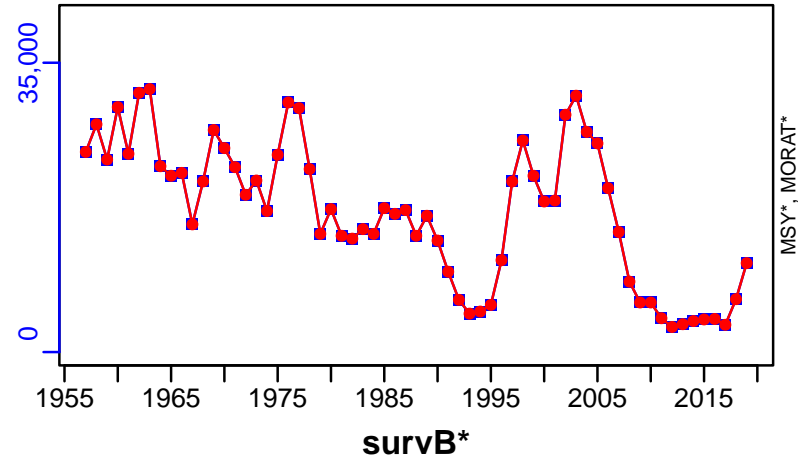
R-E00 (1957–2020–ICESIMP2021–2)



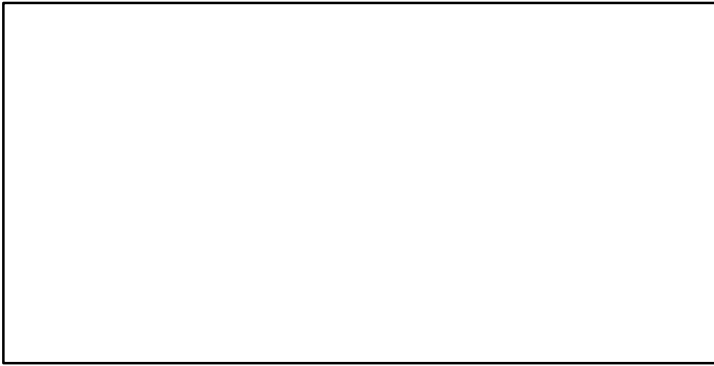
Haddock Faroe Plateau [HADFAPL]

TC-MT, TL-MT, RecC* (1957-2020-ICESIMP2021-2)

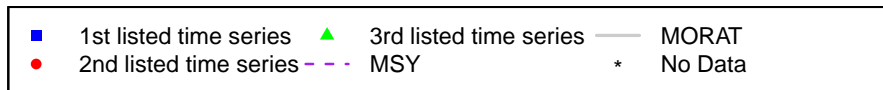
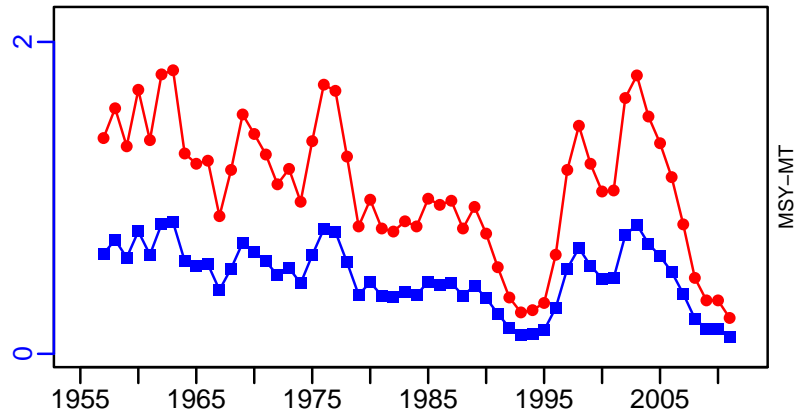
TAC*, Cpair*, Cadv*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1955-2012-CHING)



Haddock Georges Bank [HADGB]

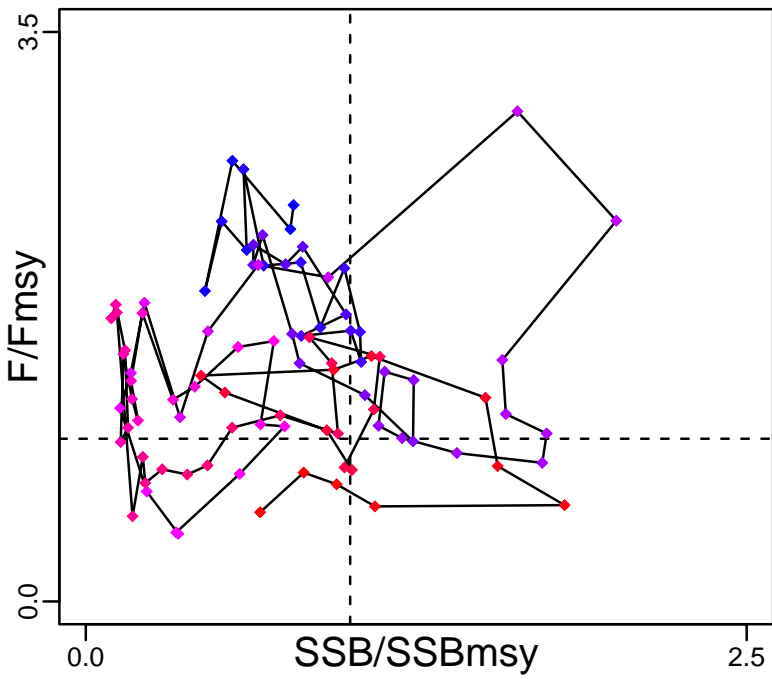
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HADGB-1930-2021-SISIMP2024
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2021, 2010, 2014, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2021	120,580
Fmsy	Fmsy-1/yr	2021	0.25
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2021	25,494
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	60,290
Flim	Flim-1/yr	2018	0.33
ERlim	-	-	-

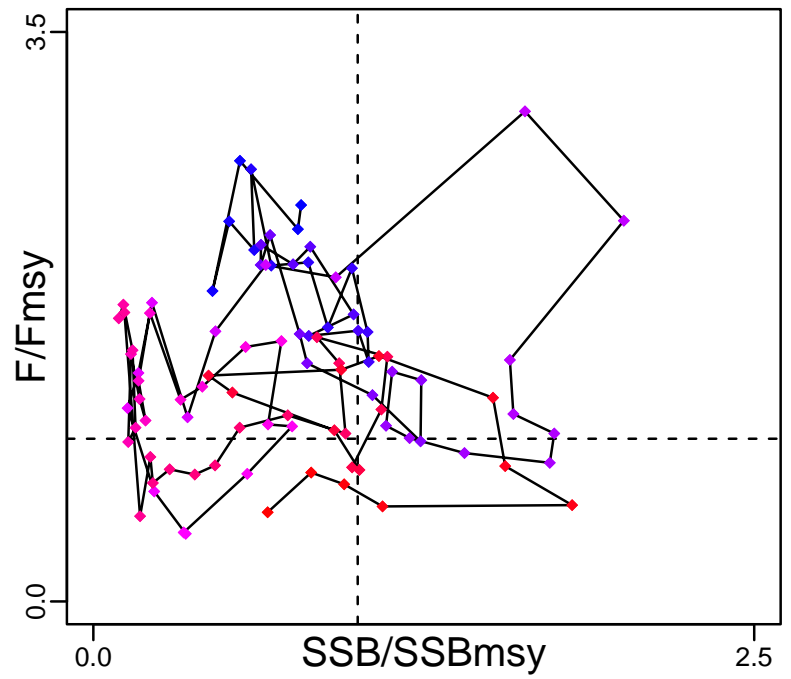
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	79,513	-	-
TN	-	-	-	-	-
R	R-E00	2021	96,151	-	1
F	F-1/yr	2021	0.137	-	5 to 7
ER	ER-ratio	2010	0.074	-	-
TC	TC-MT	2021	10,691		
TL	TL-MT	2010	21,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.659		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.548		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Georges Bank [HADGB]

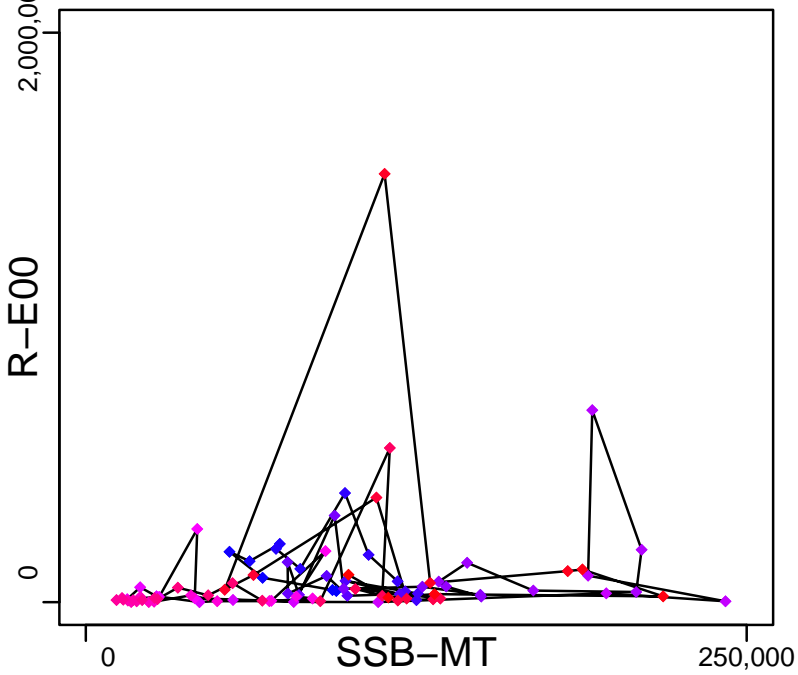
Kobe MSYpref (1930–2021–SISIMP2024)



Kobe MGTpref (1930–2021–SISIMP2024)



Spawner Recruit (1930–2021–SISIMP2024)



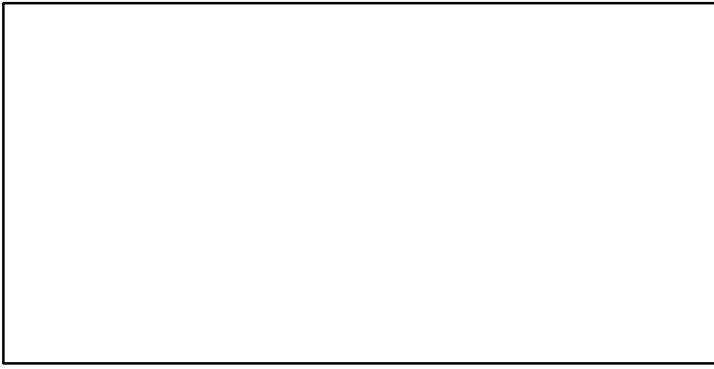
Production*



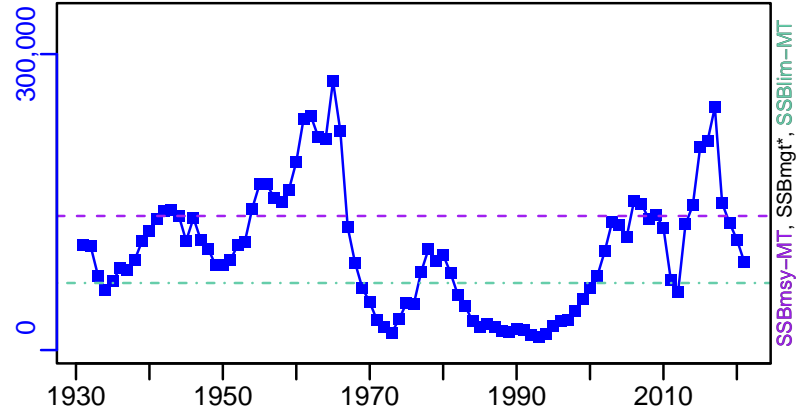
◆ Start Year ◆ End Year * No Data

Haddock Georges Bank [HADGB]

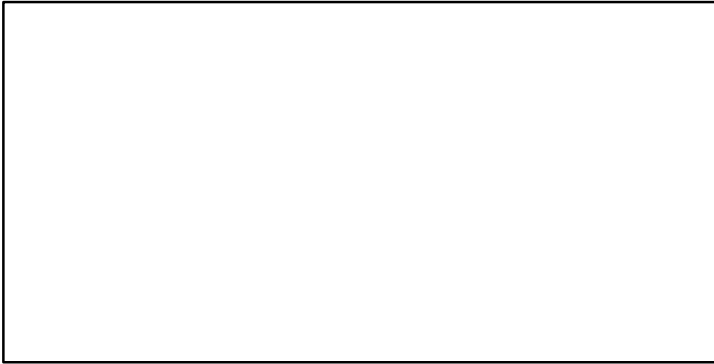
TB*



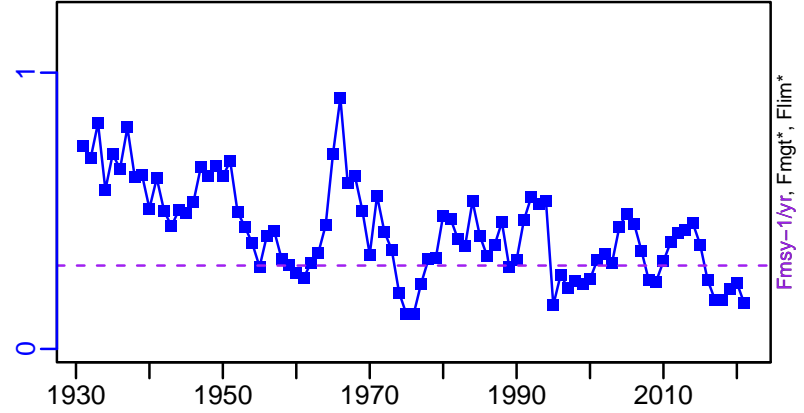
SSB-MT (1930–2021–SISIMP2024)



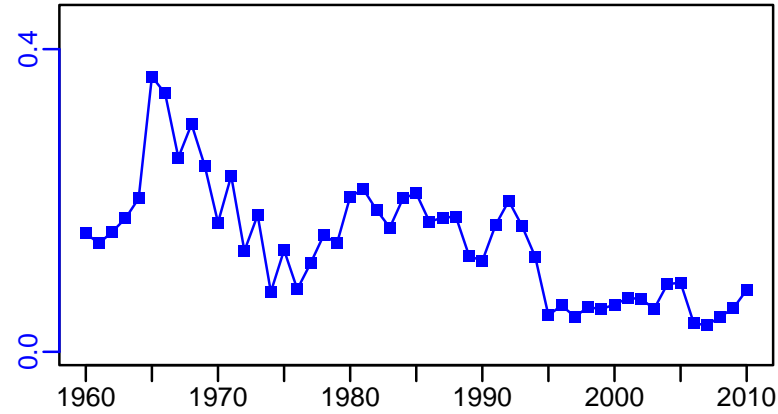
TN *



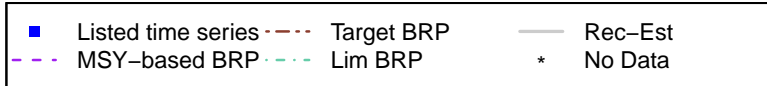
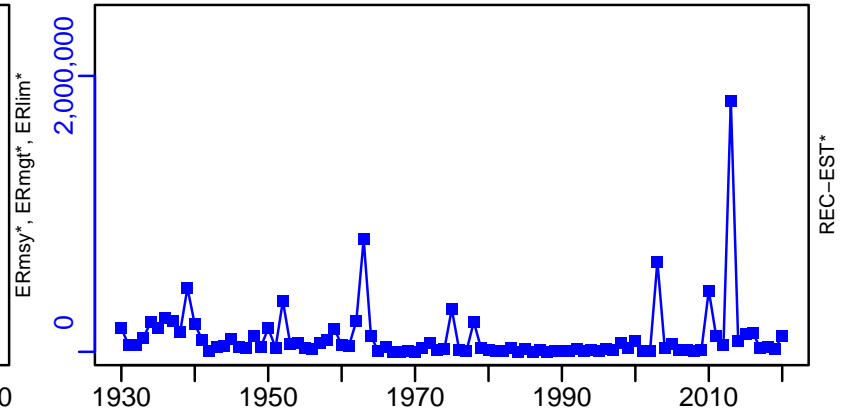
F-1/yr (1930–2021–SISIMP2024)



ER-ratio (1931–2010–CHING)

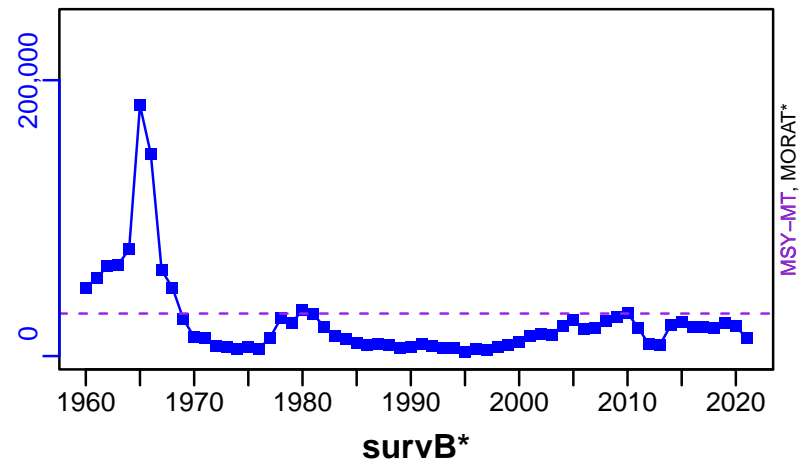


R-E00 (1930–2021–SISIMP2024)

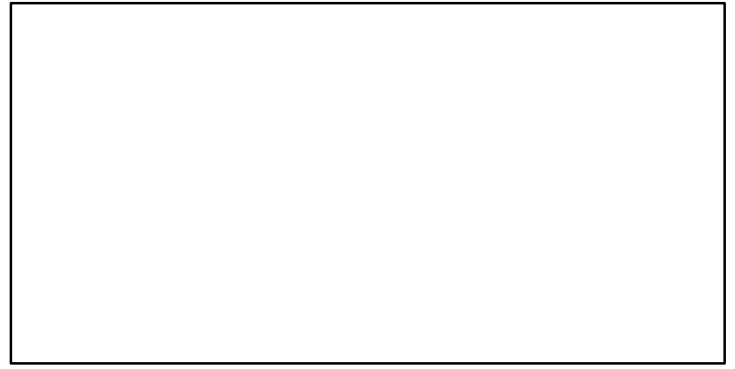


Haddock Georges Bank [HADGB]

TC-MT, TL*, RecC* (1930-2021-SISIMP2024)



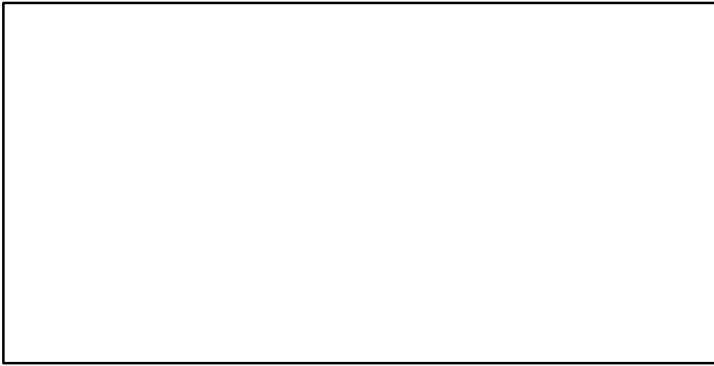
TAC*, Cpair*, Cadv*



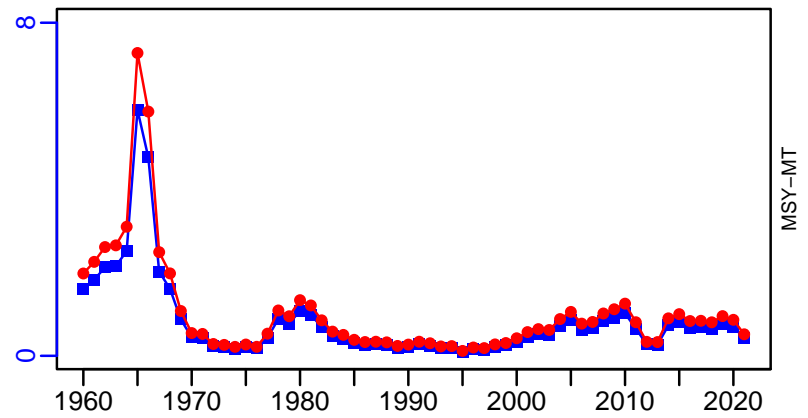
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1930-2021-SISIMP2024)



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

Haddock Iceland Grounds [HADICE]

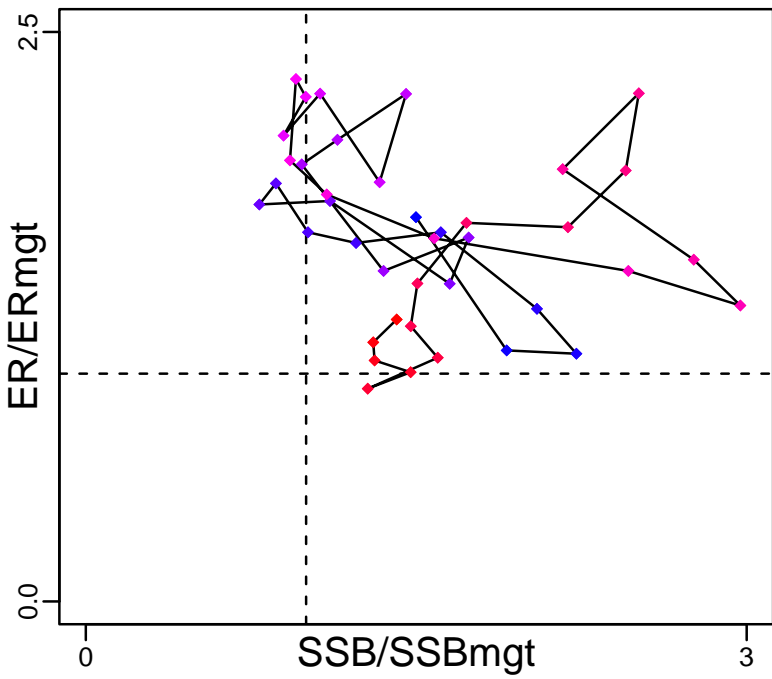
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NWWG-HADICE-1977-2023-ICESIMP2024
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	49,400
Fmgt	Fmgt-1/yr	2023	0.35
ERmgt	ERmgt-ratio	2019	0.35
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	35,500
Flim	-	-	-
ERlim	-	-	-

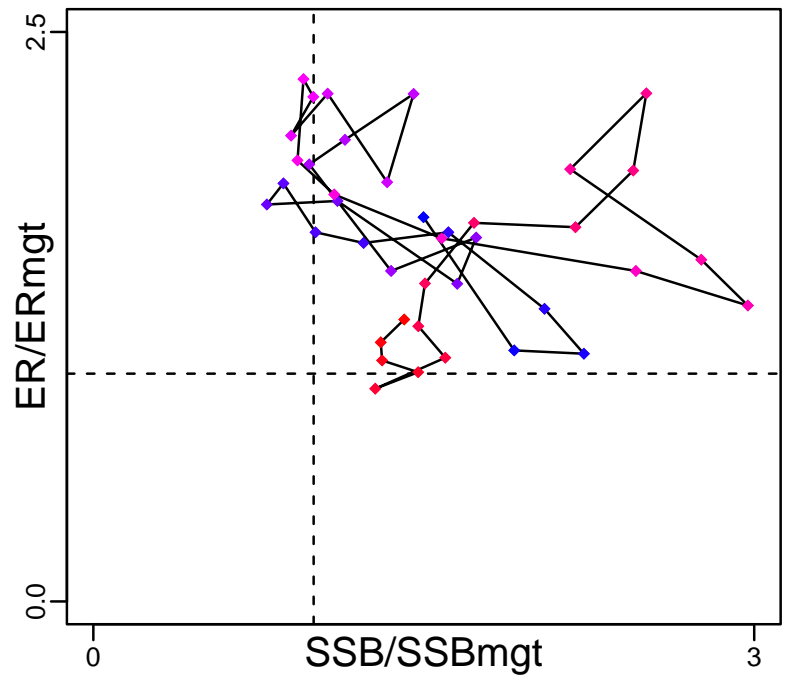
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	172,195	-	-
SSB	SSB-MT	2023	113,562	-	-
TN	-	-	-	-	-
R	R-E00	2023	106,012	-	2
F	F-1/yr	2018	0.368	-	4 to 7
ER	ER-ratio	2023	0.4	-	4 to 7
TC	TC-MT	2023	58,559		
TL	TL-MT	2023	58,559		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	2.299		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Iceland Grounds [HADICE]

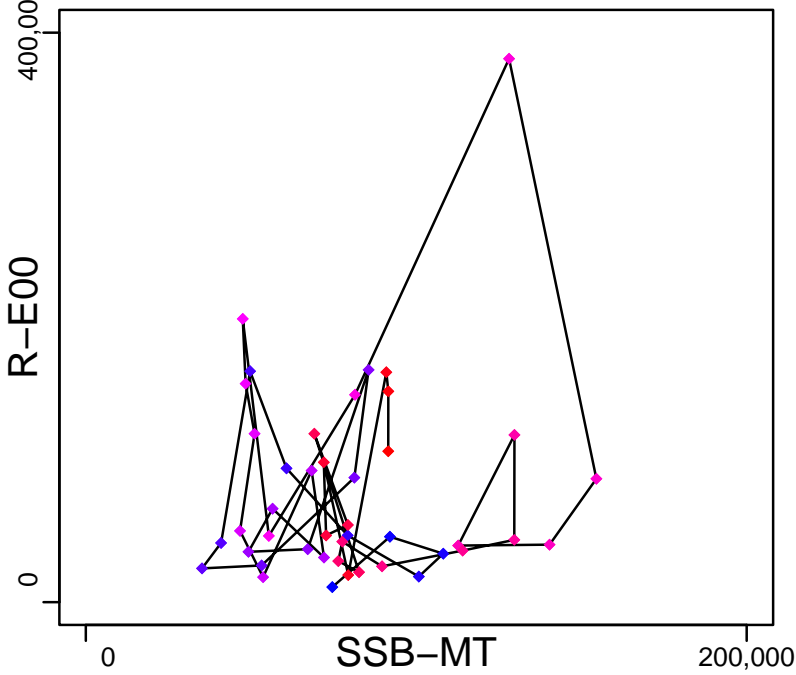
Kobe MSYpref (1977–2019–ICESIMP2021)



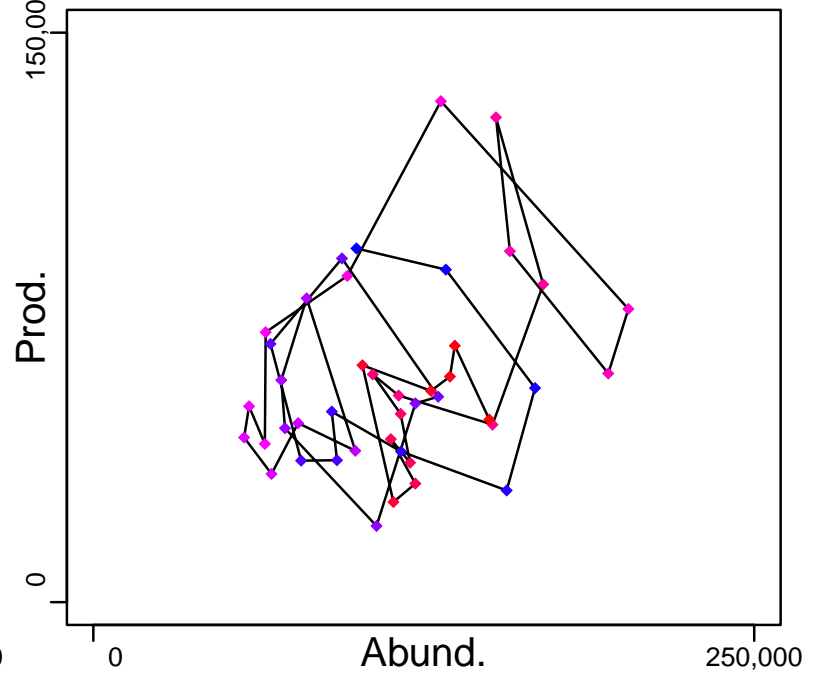
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1977–2023–ICESIMP2024)



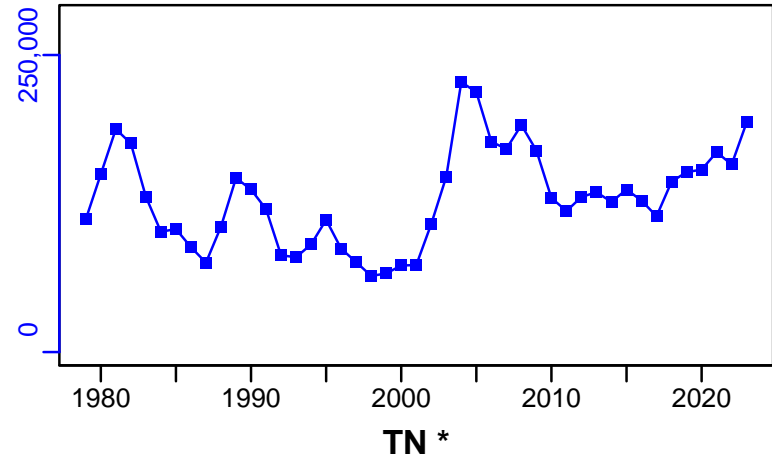
Production (1977–2023–ICESIMP2024)



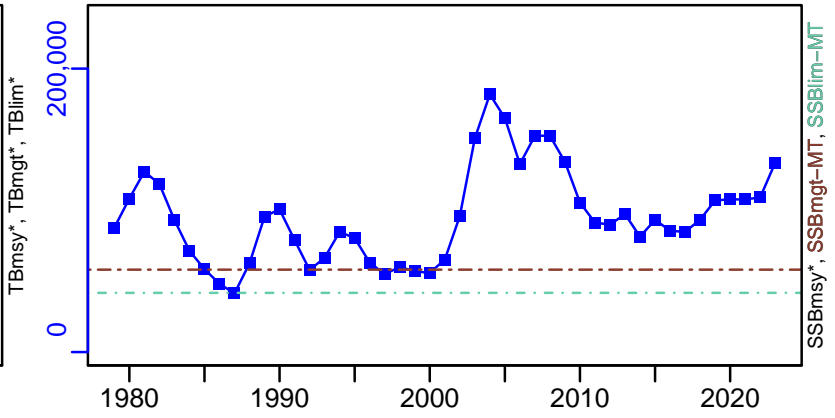
◆ Start Year ◆ End Year * No Data

Haddock Iceland Grounds [HADICE]

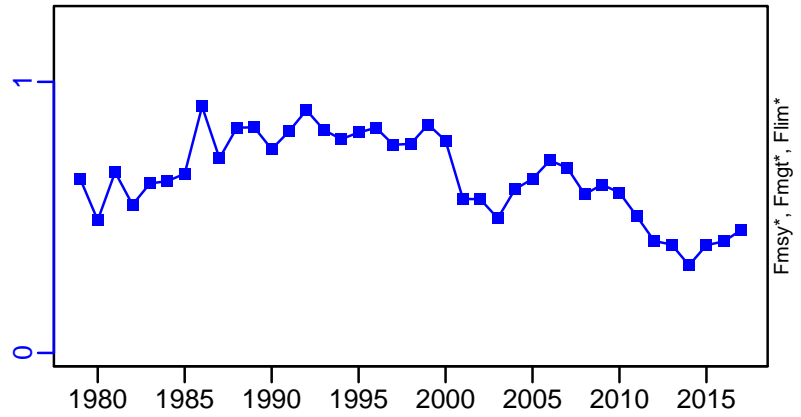
TB-MT (1977–2023–ICESIMP2024)



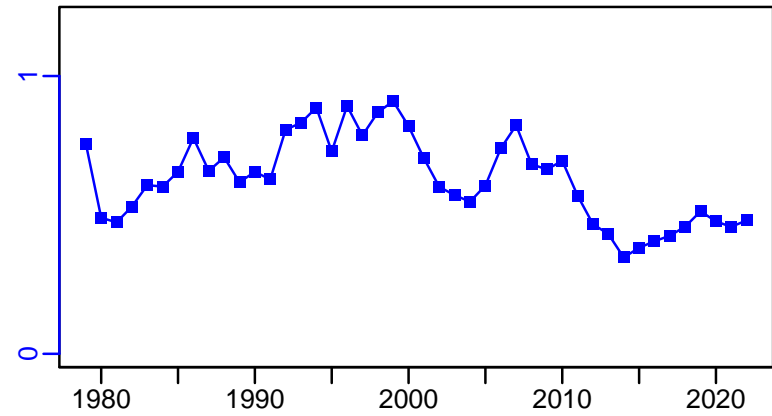
SSB-MT (1977–2023–ICESIMP2024)



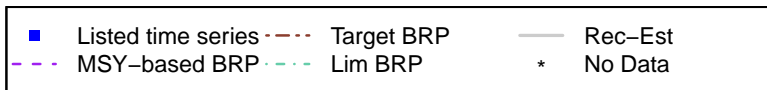
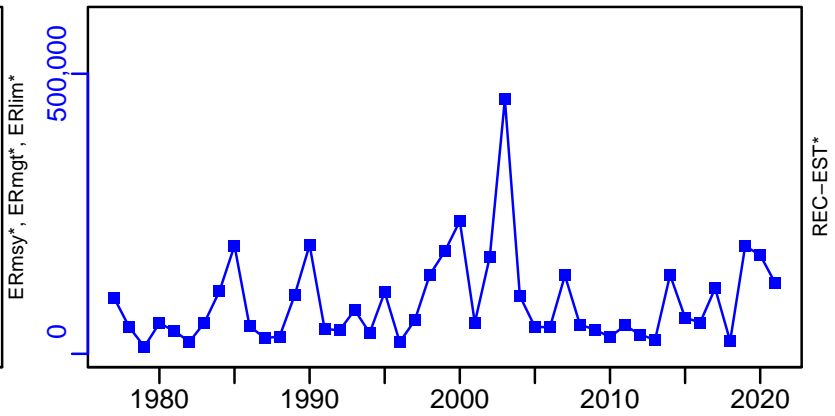
F-1/yr (1977–2018–ICESIMP2018)



ER-ratio (1977–2023–ICESIMP2024)

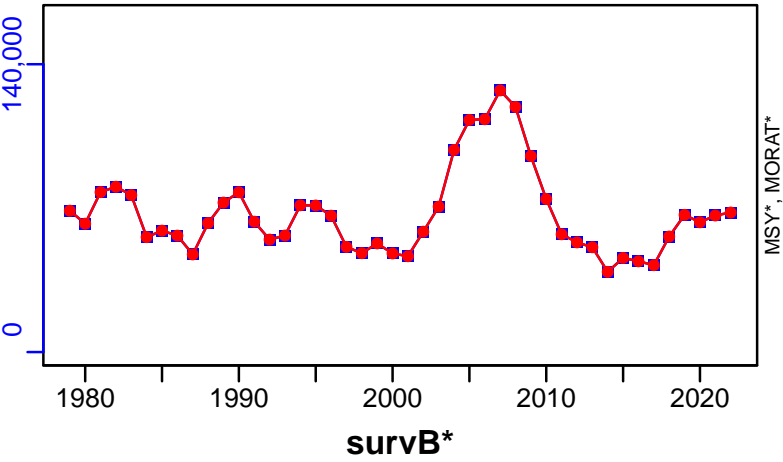


R-E00 (1977–2023–ICESIMP2024)



Haddock Iceland Grounds [HADICE]

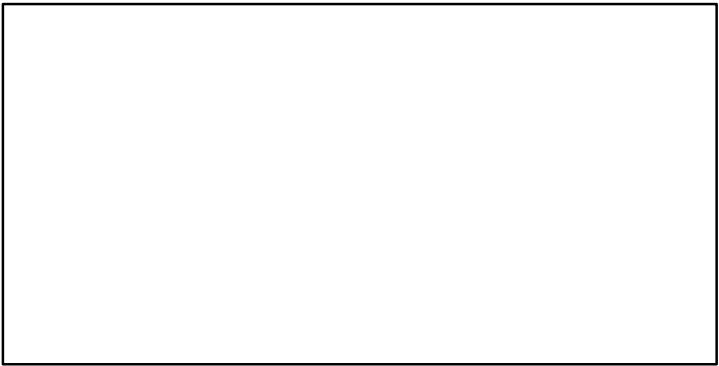
TC-MT, TL-MT, RecC* (1977-2023-ICESIMP2024)



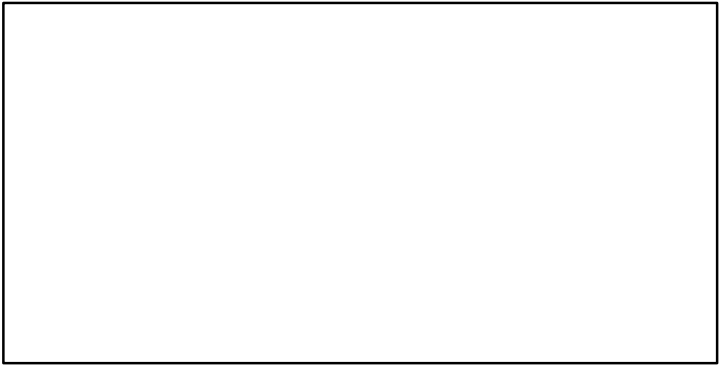
TAC*, Cpair*, Cadv*



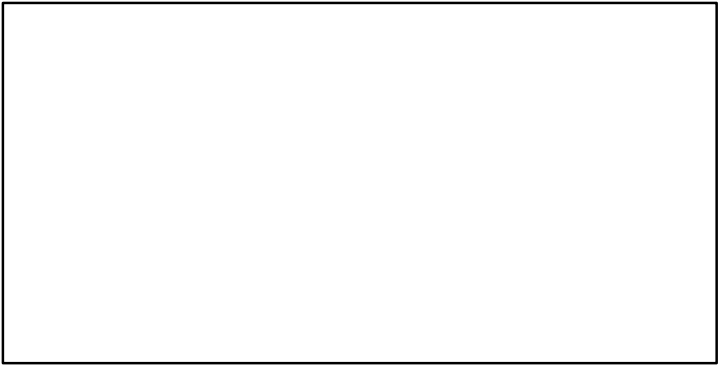
CPUE*



EFFORT*



CdivMSY*



Haddock Irish Sea [HADIS]

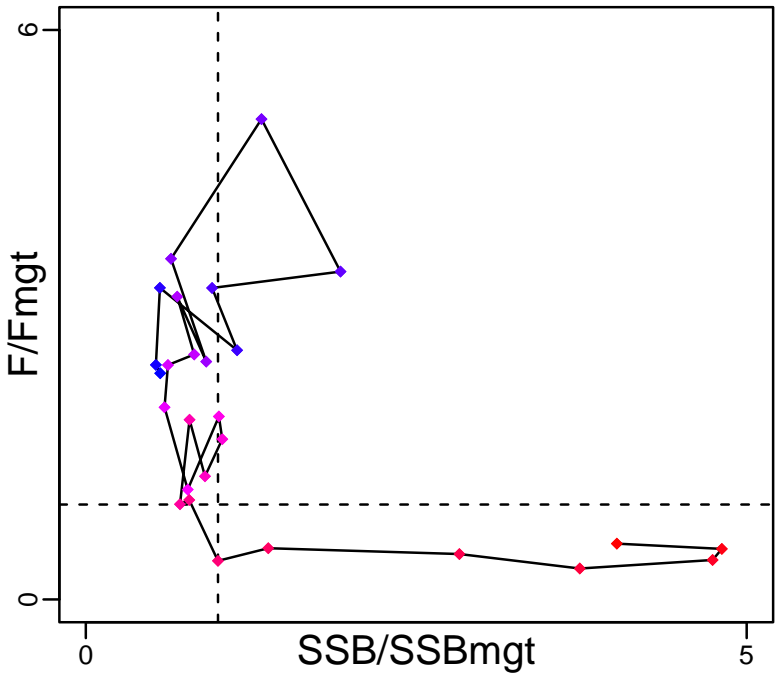
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADIS-1993-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2016, 2017, 2019, 2020, 2021, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.28
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	4281
Fmgt	Fmgt-1/yr	2021	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2990
Flim	Flim-1/yr	2021	0.53
ERlim	-	-	-

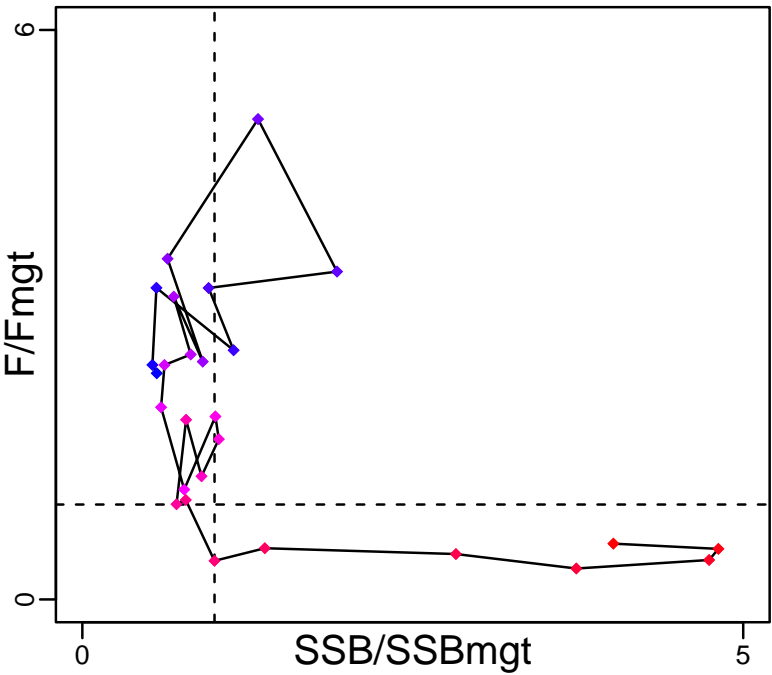
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	28,668	-	-
SSB	SSB-MT	2021	17,400	-	-
TN	-	-	-	-	-
R	R-E00	2021	372,000	-	0
F	F-1/yr	2021	0.066	-	-
ER	ER-calc-ratio	2019	0.089	-	-
TC	TC-MT	2021	975		
TL	TL-MT	2021	742		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.235		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	3.971		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.235		
ER/ERmgt	-	-	-		

Haddock Irish Sea [HADIS]

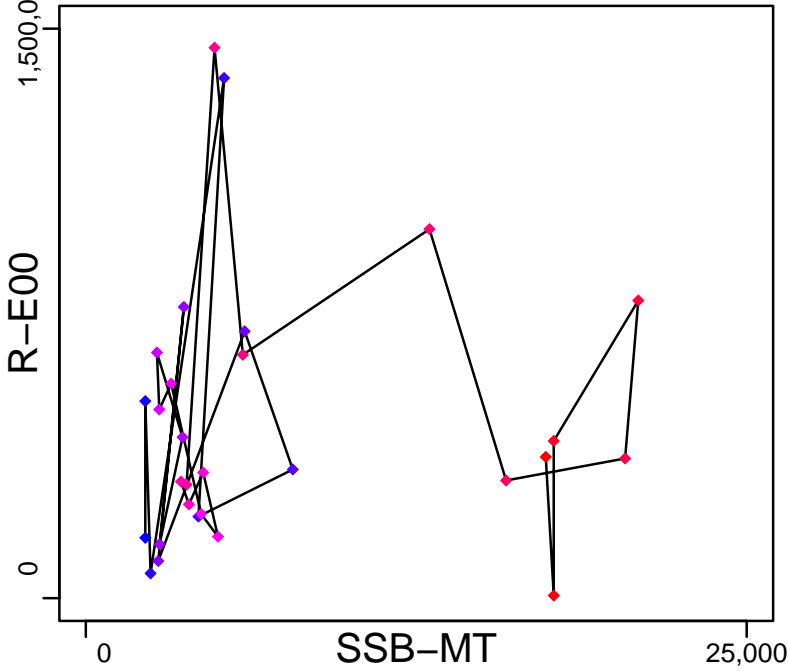
Kobe MSYpref (1993–2020–ICESIMP2021–2)



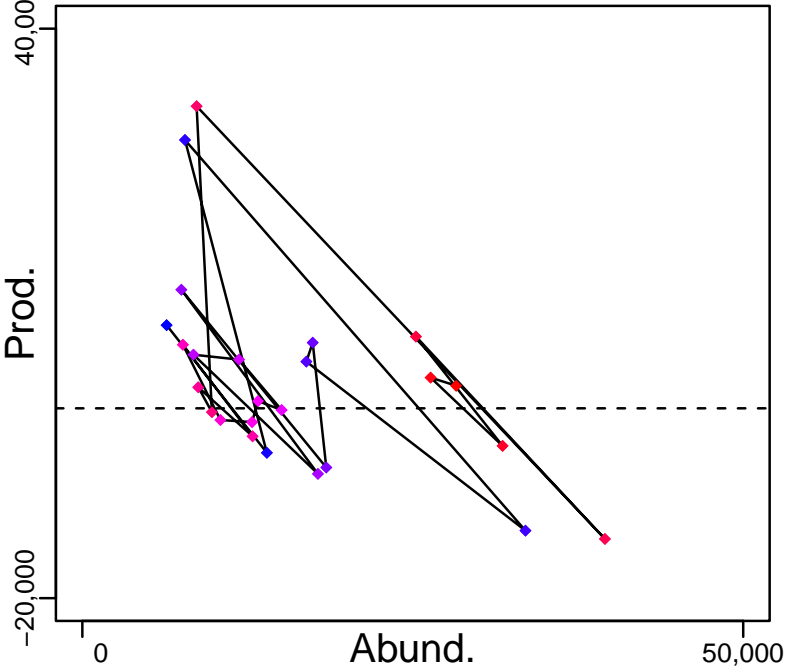
Kobe MGTpref (1993–2020–ICESIMP2021–2)



Spawner Recruit (1993–2021–ICESIMP2021–2)



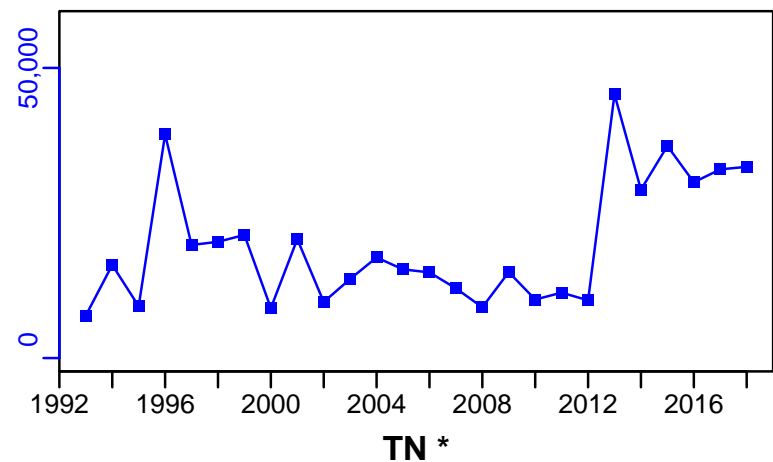
Production (1993–2019–ICESIMP2021)



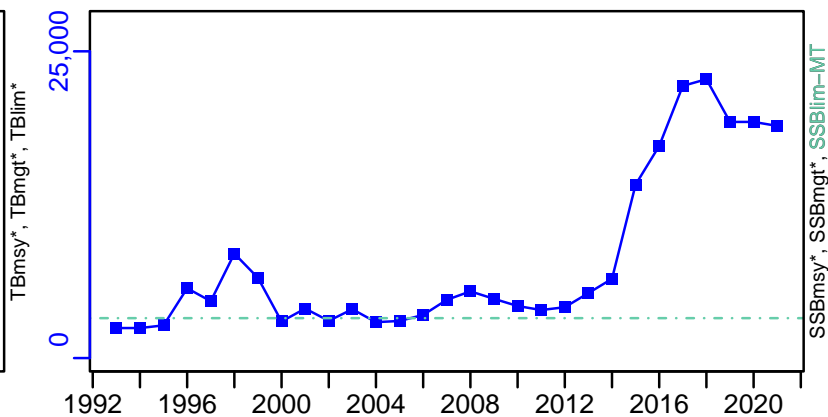
◆ Start Year ◆ End Year * No Data

Haddock Irish Sea [HADIS]

TB-MT (1993–2019–ICESIMP2021)



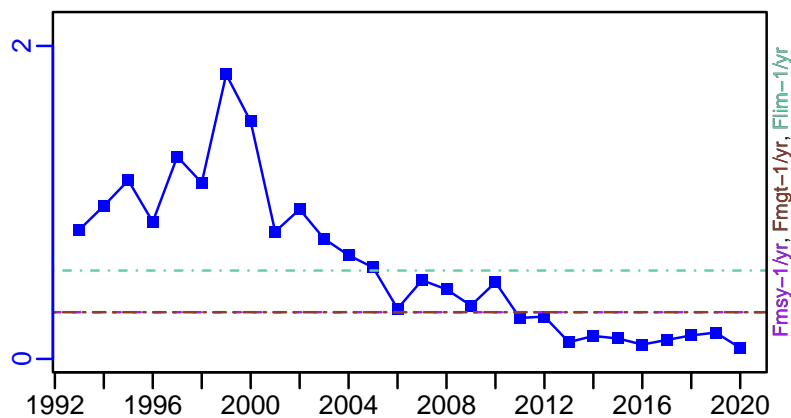
SSB-MT (1993–2021–ICESIMP2021–2)



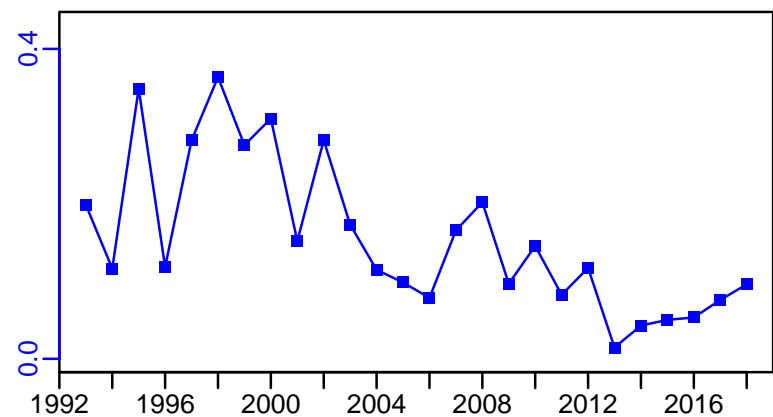
TN *



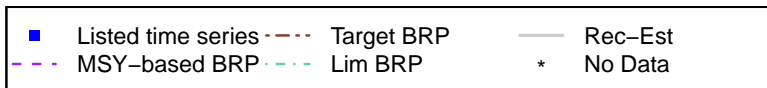
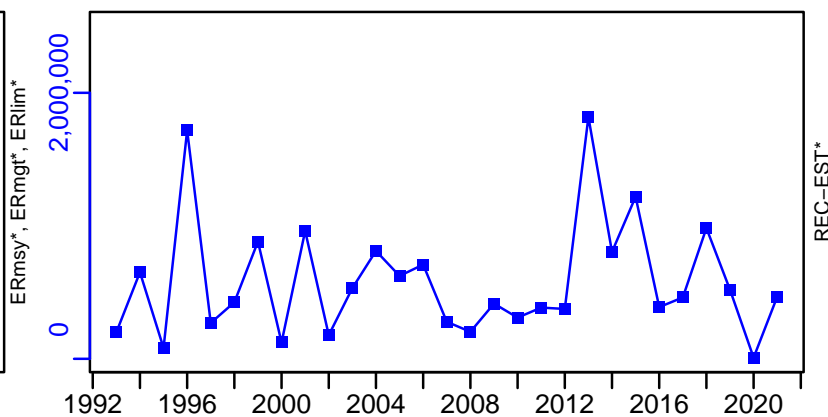
F-1/yr (1993–2021–ICESIMP2021–2)



ER-calc-ratio (1993–2019–ICESIMP2021)

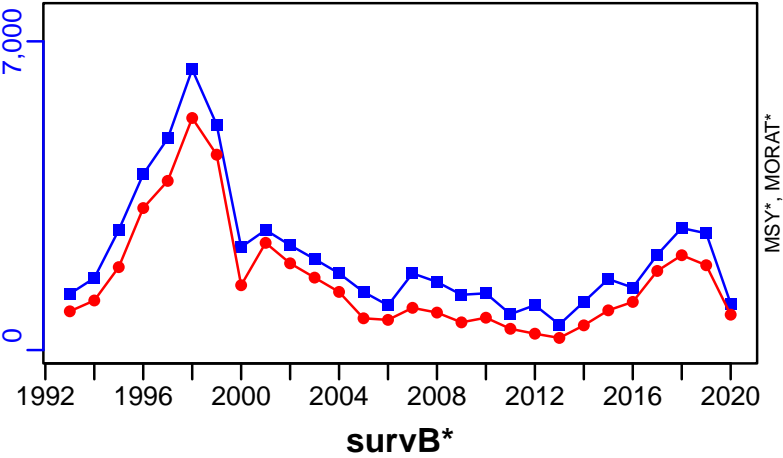


R-E00 (1993–2021–ICESIMP2021–2)

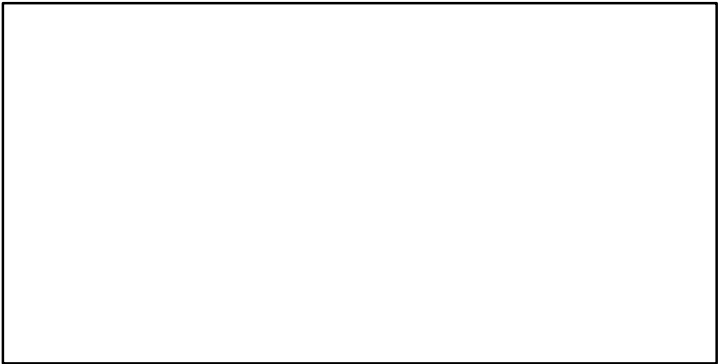


Haddock Irish Sea [HADIS]

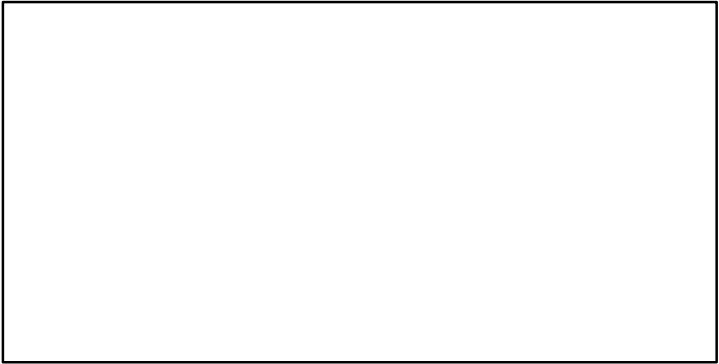
TC-MT, TL-MT, RecC* (1993–2021–ICESIMP2021–2)



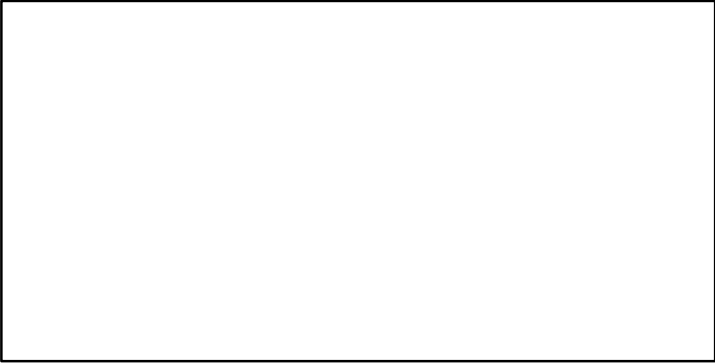
TAC*, Cpair*, Cadv*



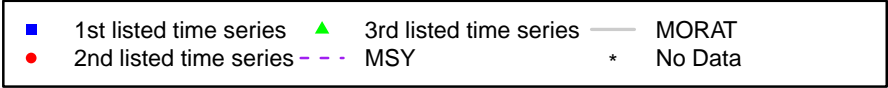
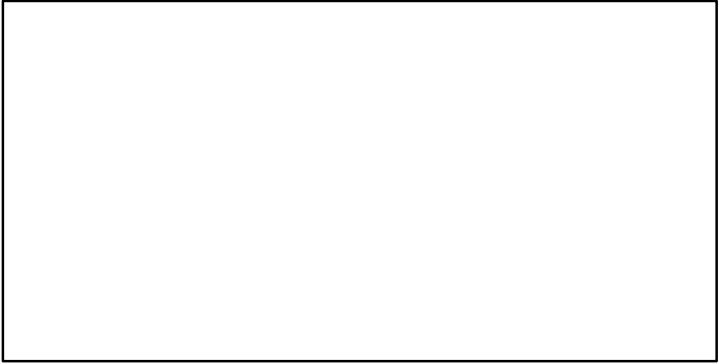
CPUE*



EFFORT*



CdivMSY*



Haddock North-East Arctic [HADNEAR]

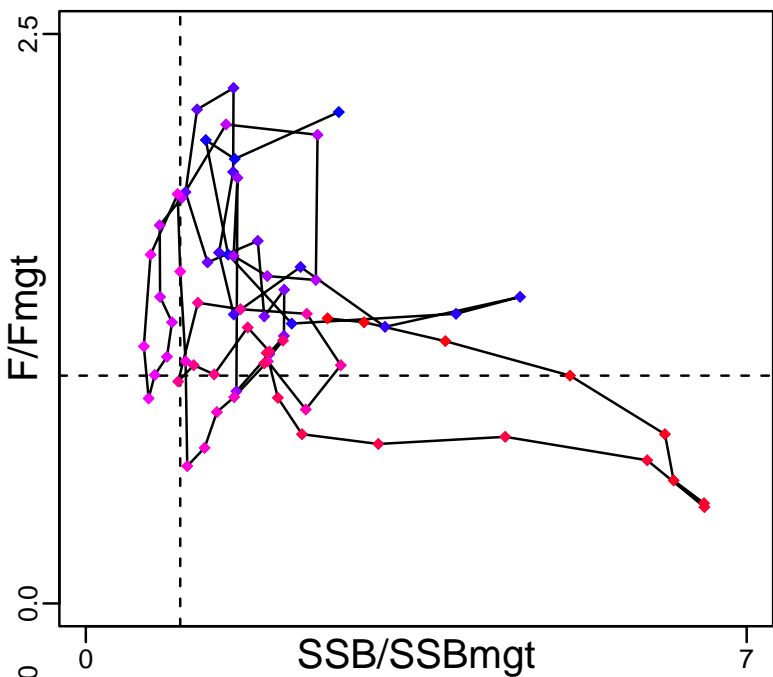
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	AFWG-HADNEAR-1947-2021-ICESIMP2022
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Arctic Fisheries Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2019, 2021, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.35
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	80,000
Fmgt	Fmgt-1/yr	2021	0.35
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	50,000
Flim	Flim-1/yr	2021	0.77
ERlim	-	-	-

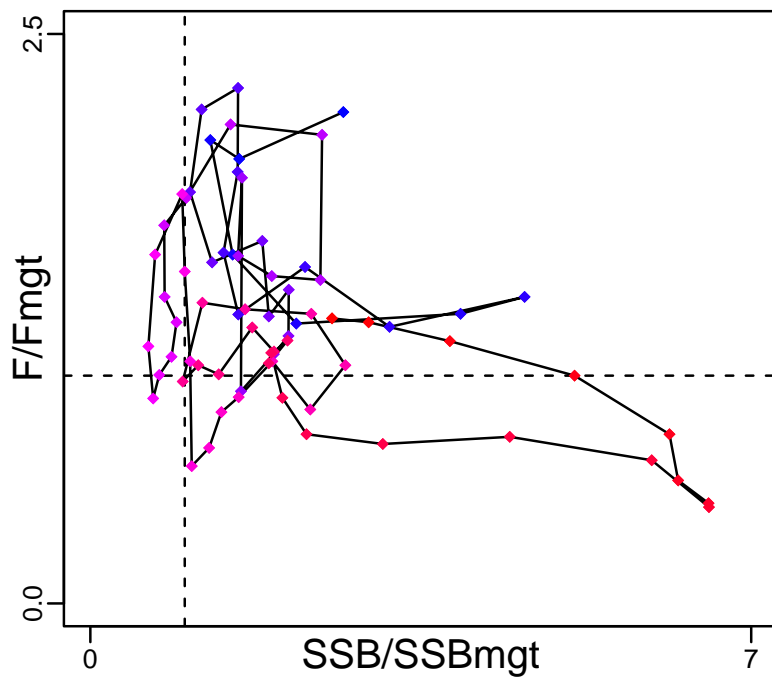
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	643,906	-	-
SSB	SSB-MT	2021	199,478	-	-
TN	-	-	-	-	-
R	R-E00	2021	158,028,000	-	3
F	F-1/yr	2021	0.438	-	4 to 7
ER	ER-calc-ratio	2021	0.253	-	-
TC	TC-MT	2021	182,468		
TL	TL-MT	2021	182,468		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.571		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.493		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.251		
ER/ERmgt	-	-	-		

Haddock North-East Arctic [HADNEAR]

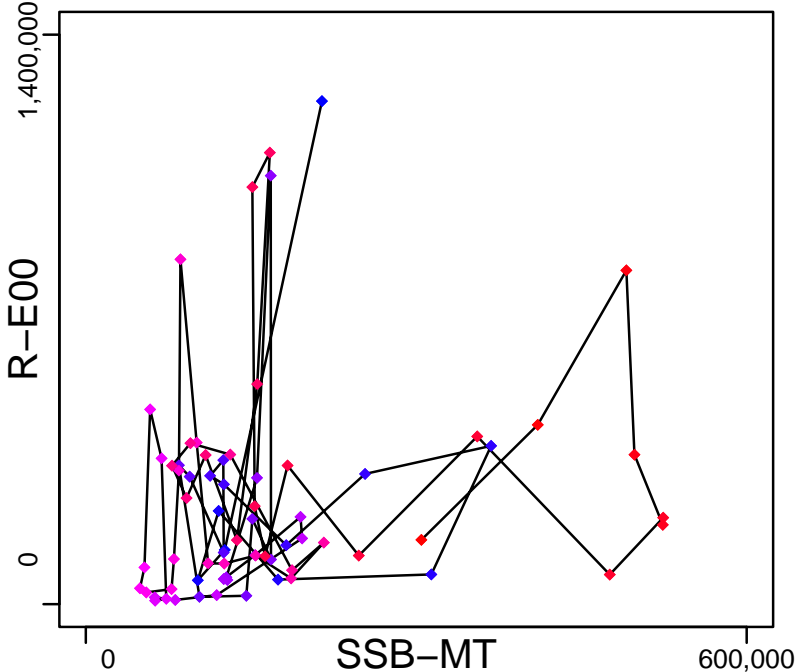
Kobe MSYpref (1947–2021–ICESIMP2022)



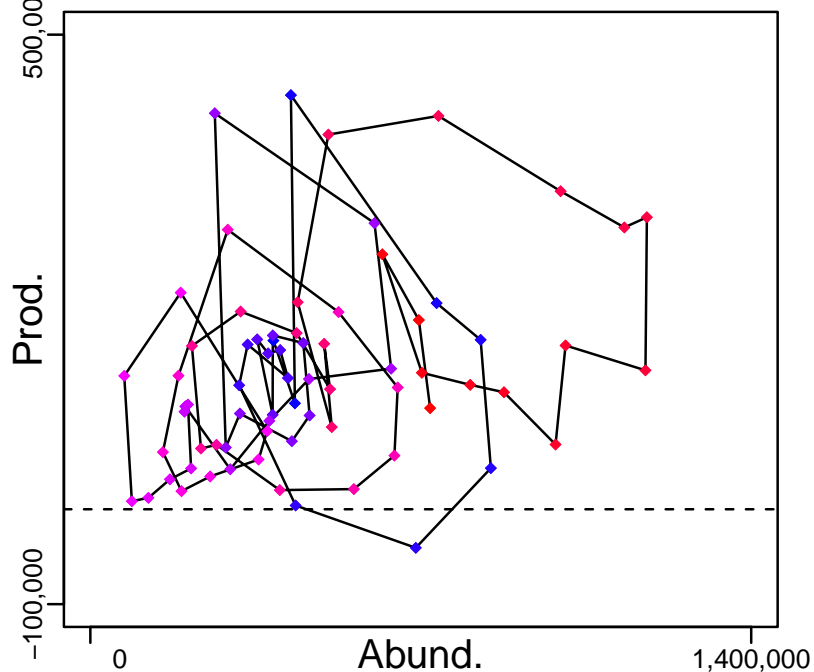
Kobe MGTpref (1947–2021–ICESIMP2022)



Spawner Recruit (1947–2021–ICESIMP2022)



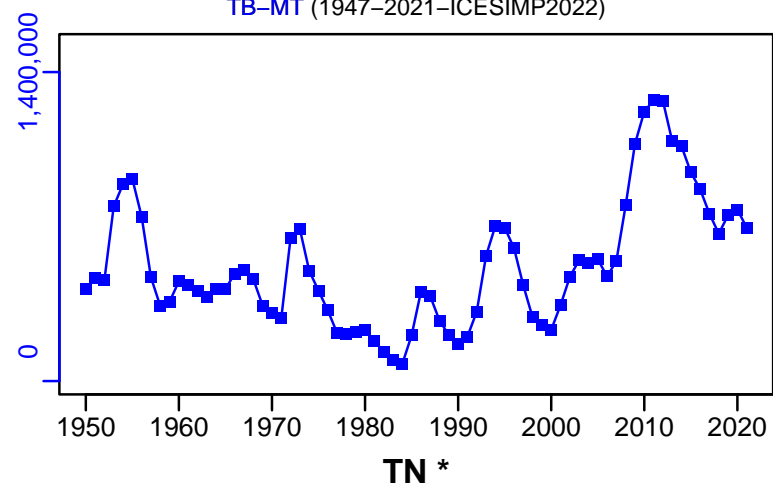
Production (1947–2021–ICESIMP2022)



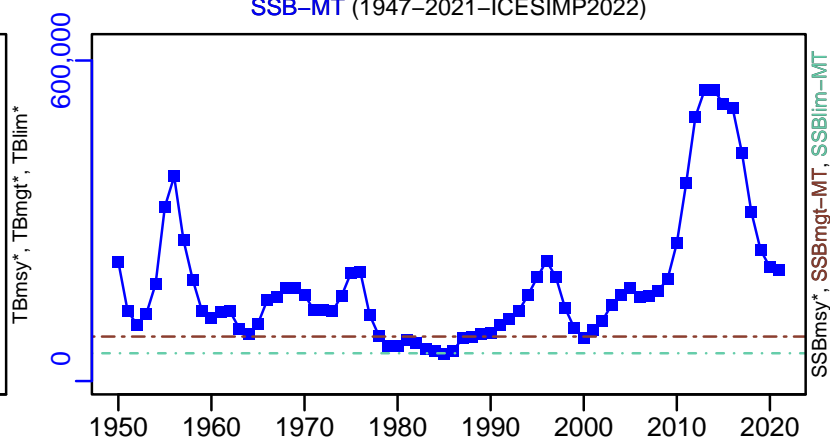
◆ Start Year ◆ End Year * No Data

Haddock North-East Arctic [HADNEAR]

TB-MT (1947-2021-ICESIMP2022)



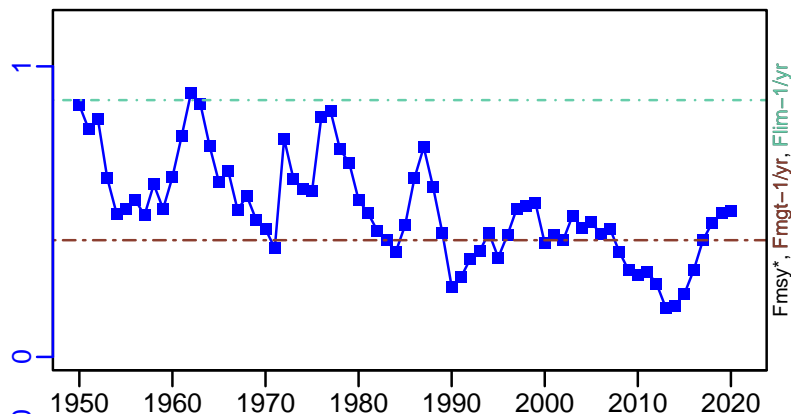
SSB-MT (1947-2021-ICESIMP2022)



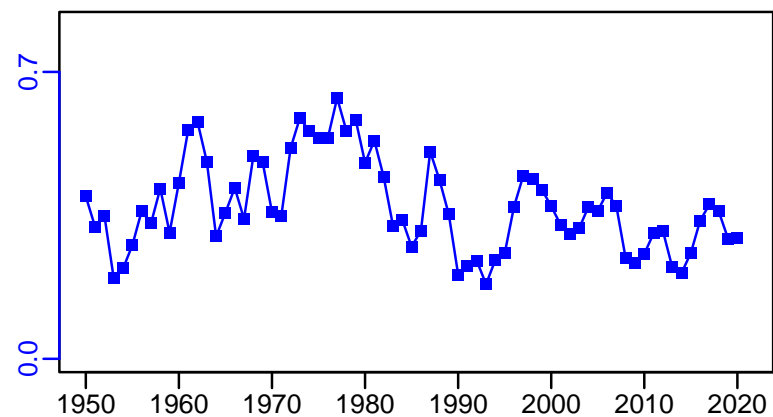
TN *



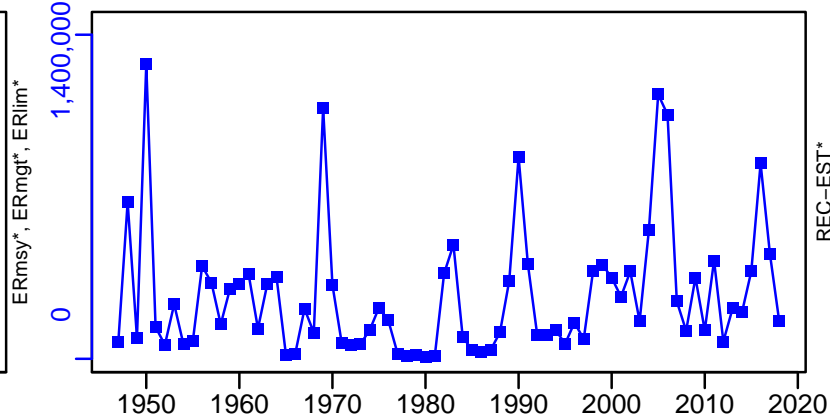
F-1/yr (1947-2021-ICESIMP2022)



ER-calc-ratio (1947-2021-ICESIMP2022)

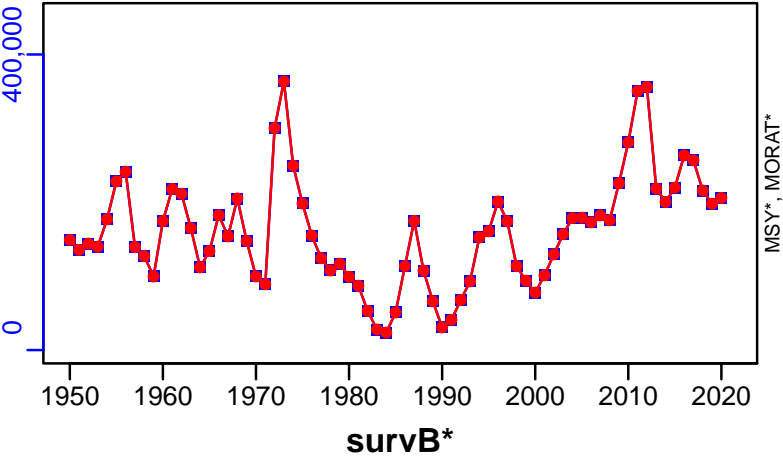


R-E00 (1947-2021-ICESIMP2022)

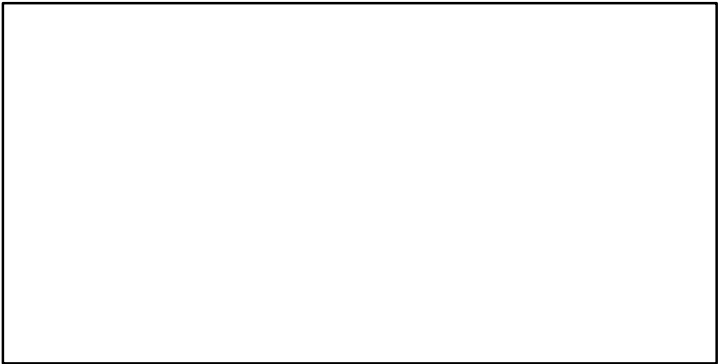


Haddock North-East Arctic [HADNEAR]

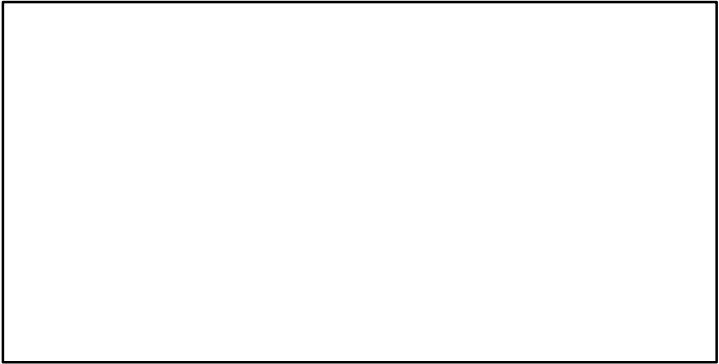
TC-MT, TL-MT, RecC* (1947-2021-ICESIMP2022)



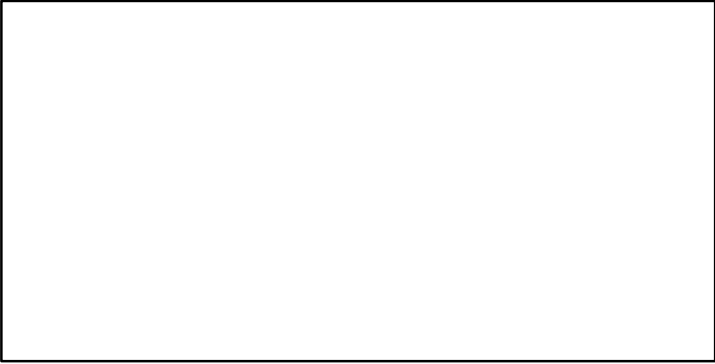
TAC*, Cpair*, Cadv*



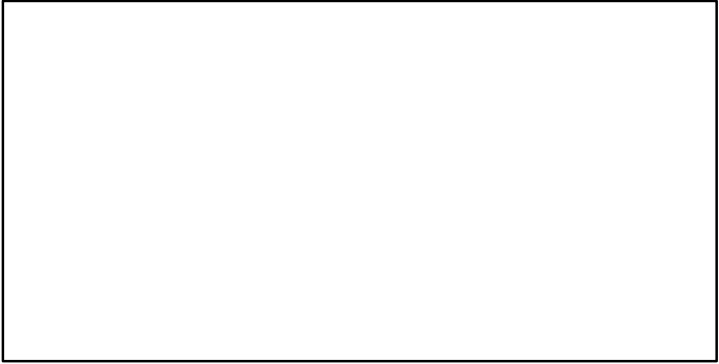
CPUE*



EFFORT*



CdivMSY*

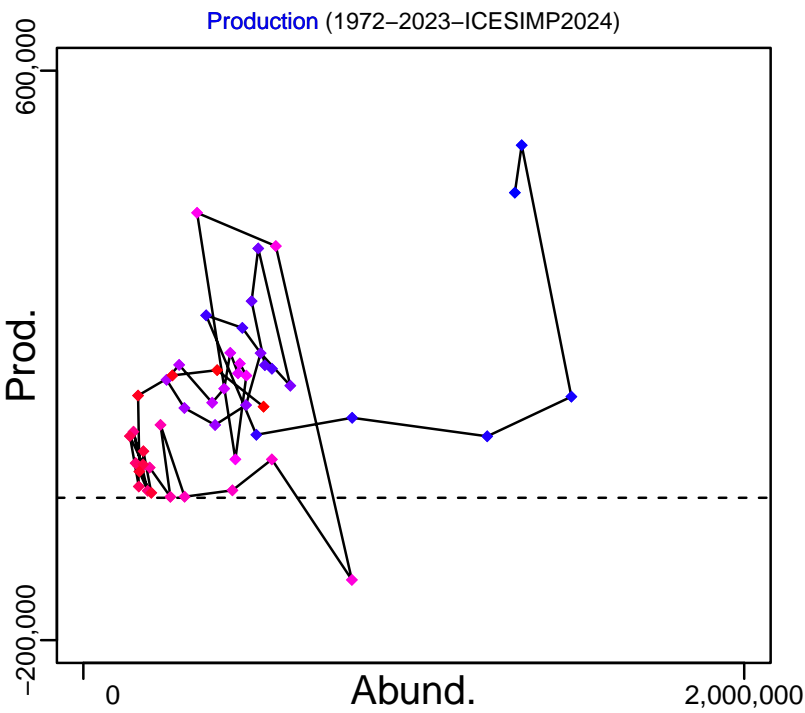
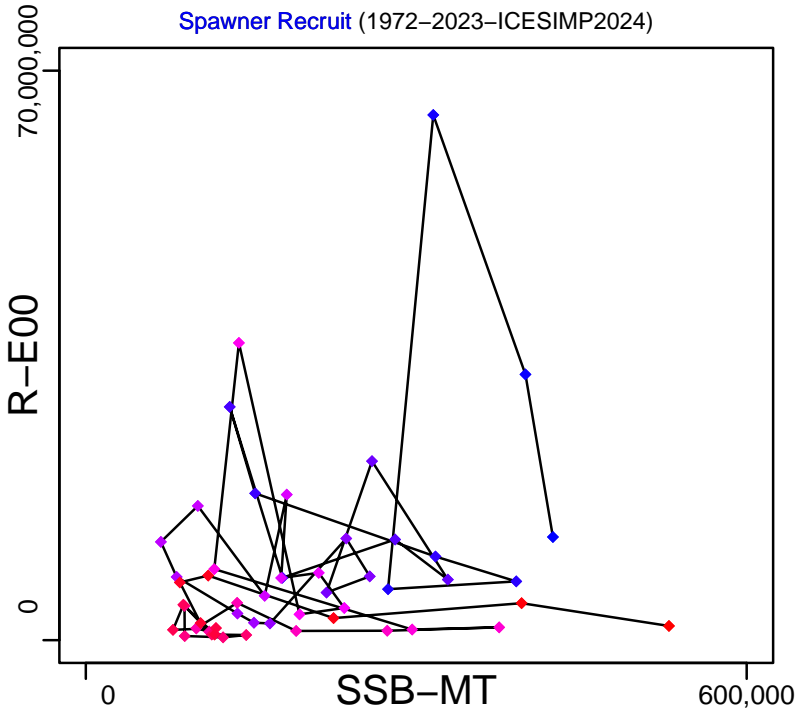
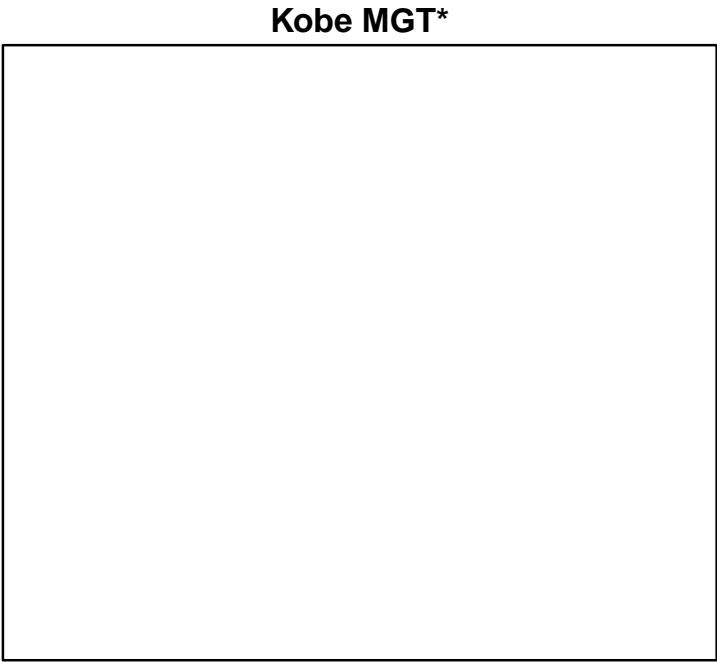
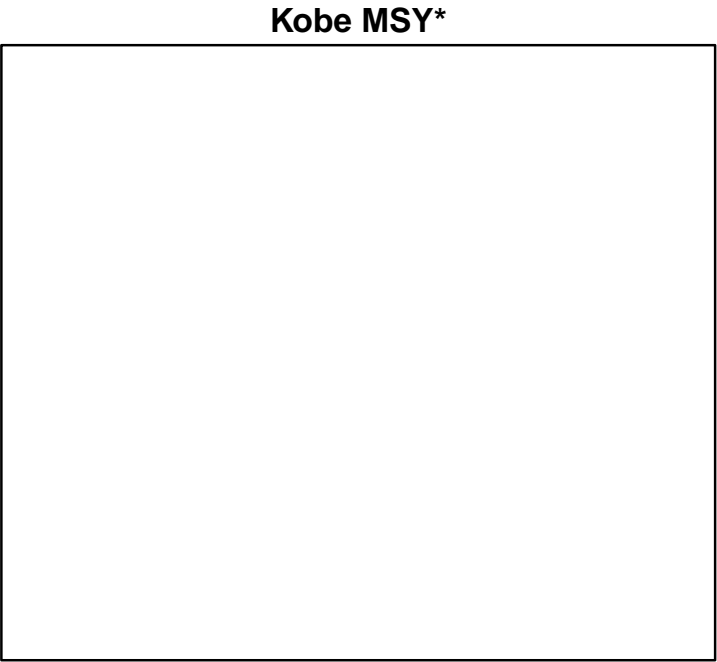


Haddock ICES 3a-4-6a [HADNS-IIIa-VIa]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGNSSK-HADNS-IIIa-VIa-1972-2023-ICESIMP2024
Area	ICES 3a-4-6a
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, 2015, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	136,541
Flim	Flim-1/yr	2023	0.43
ERlim	-	-	-

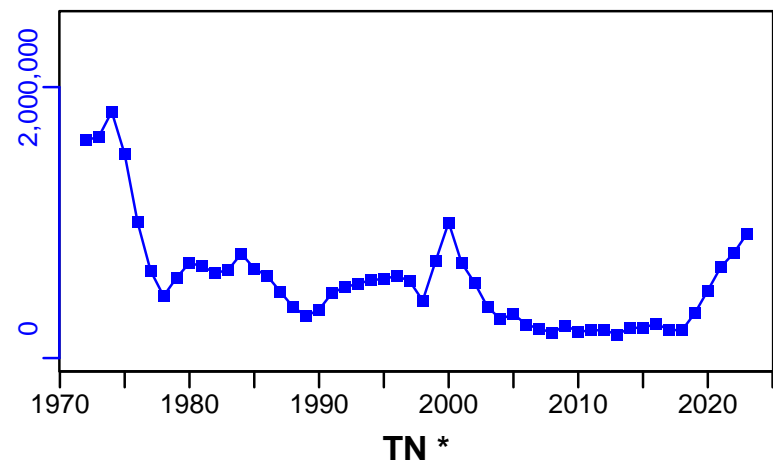
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	743,019	-	-
SSB	SSB-MT	2023	529,443	-	-
TN	-	-	-	-	-
R	R-E00	2023	1,746,116	-	0
F	F-1/yr	2023	0.119	-	2 to 4
ER	ER-calc-ratio	2023	0.09	-	-
TC	TC-MT	2023	56,849		
TL	TL-MT	2023	37,392		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.496		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.496		
ER/ERmgt	-	-	-		



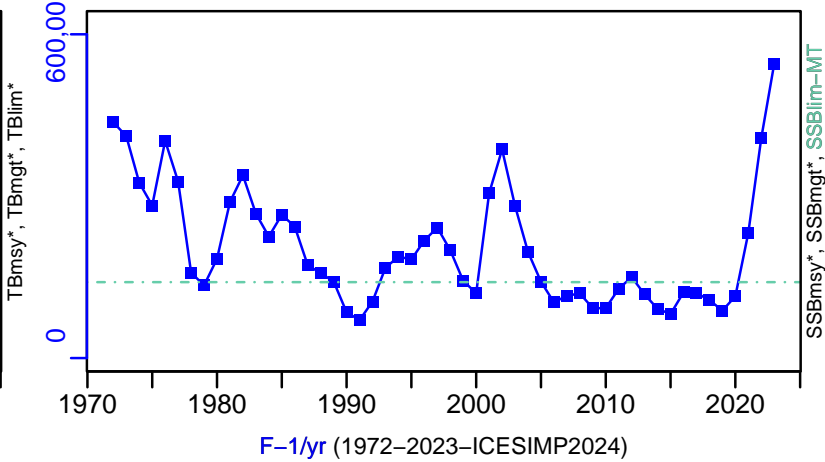
◆ Start Year ◆ End Year * No Data

Haddock ICES 3a–4–6a [HADNS–IIIa–VIa]

TB–MT (1972–2023–ICESIMP2024)



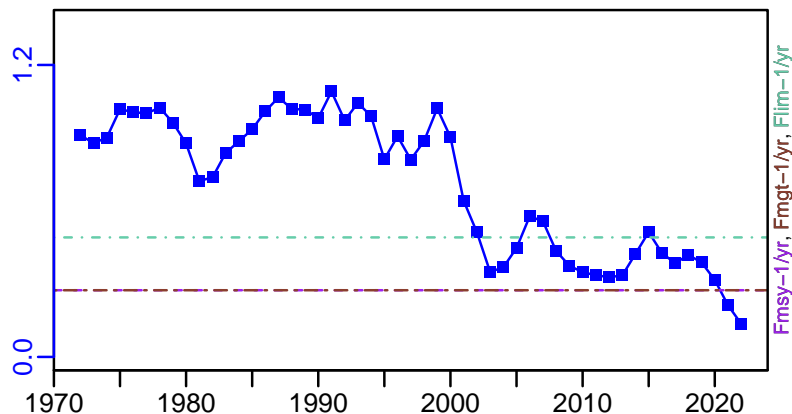
SSB–MT (1972–2023–ICESIMP2024)



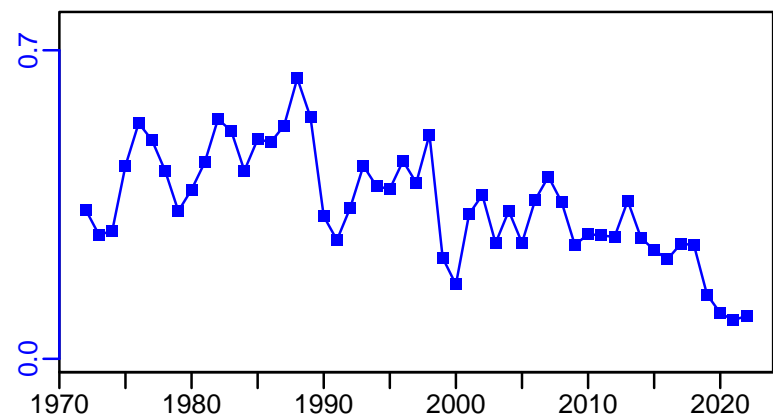
TN *



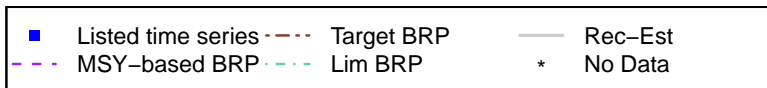
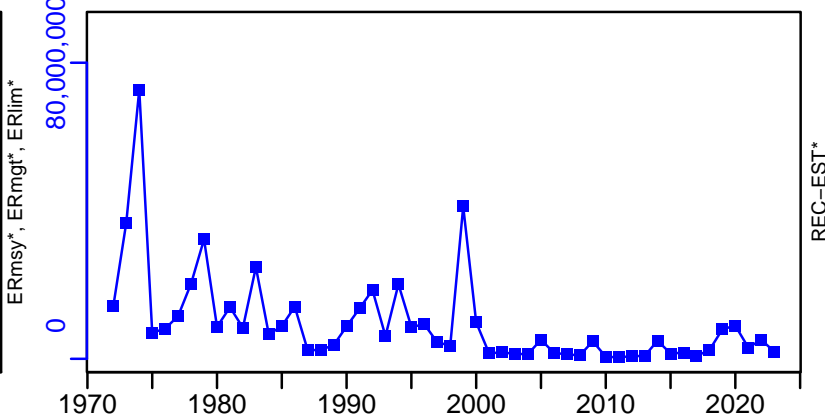
F–1/yr (1972–2023–ICESIMP2024)



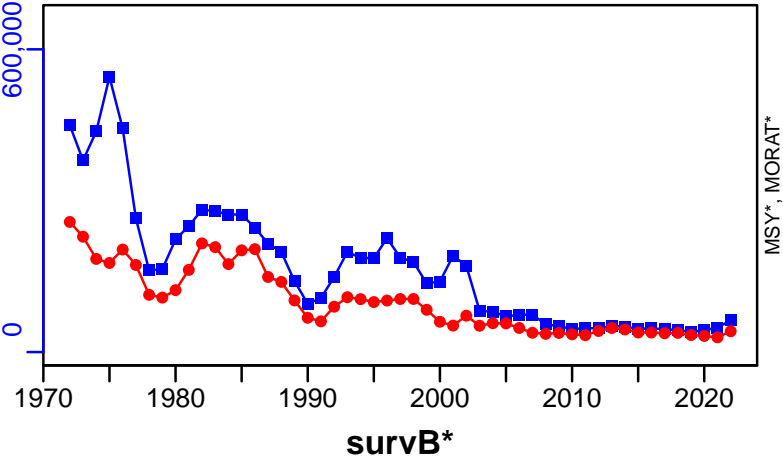
ER–calc–ratio (1972–2023–ICESIMP2024)



R–E00 (1972–2023–ICESIMP2024)



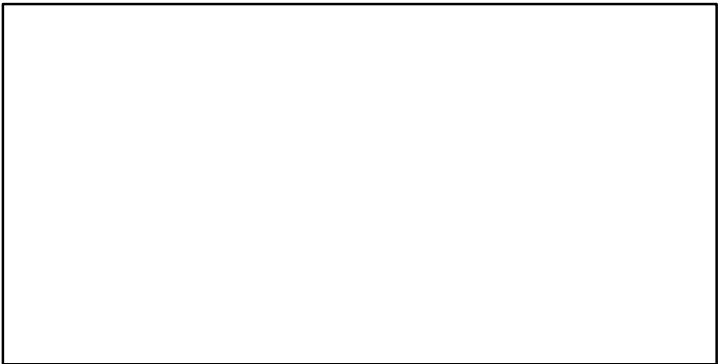
TC–MT, TL–MT, RecC* (1972–2023–ICESIMP2024)



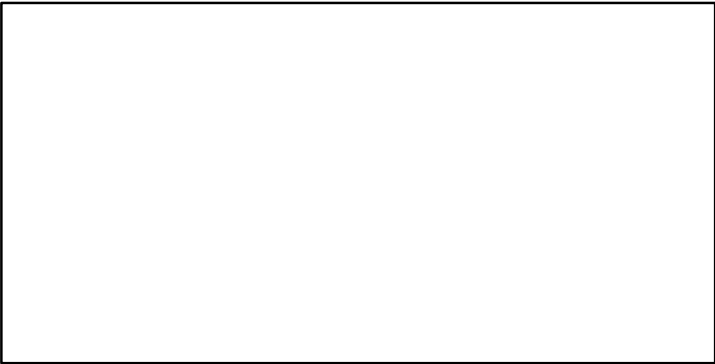
TAC*, Cpair*, Cadv*



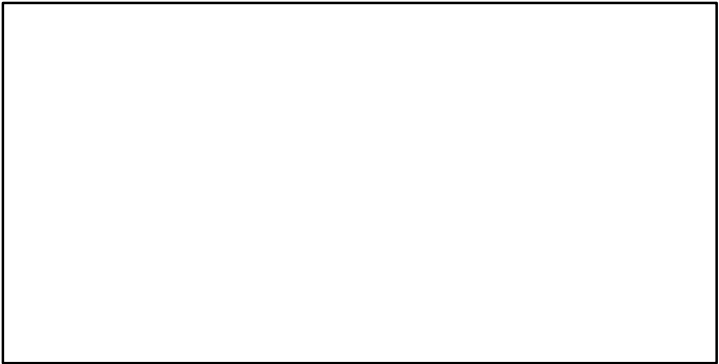
CPUE*



EFFORT*



CdivMSY*

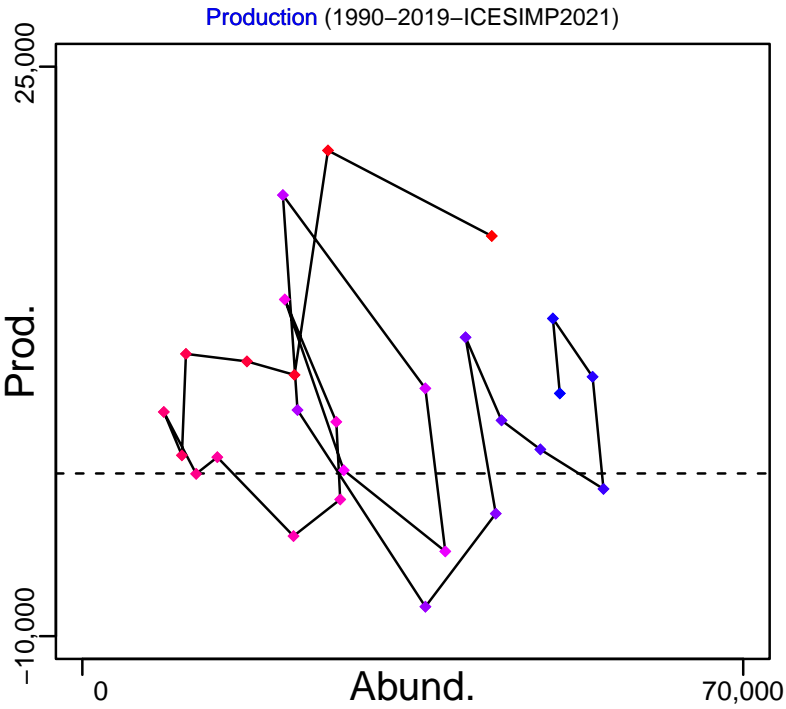
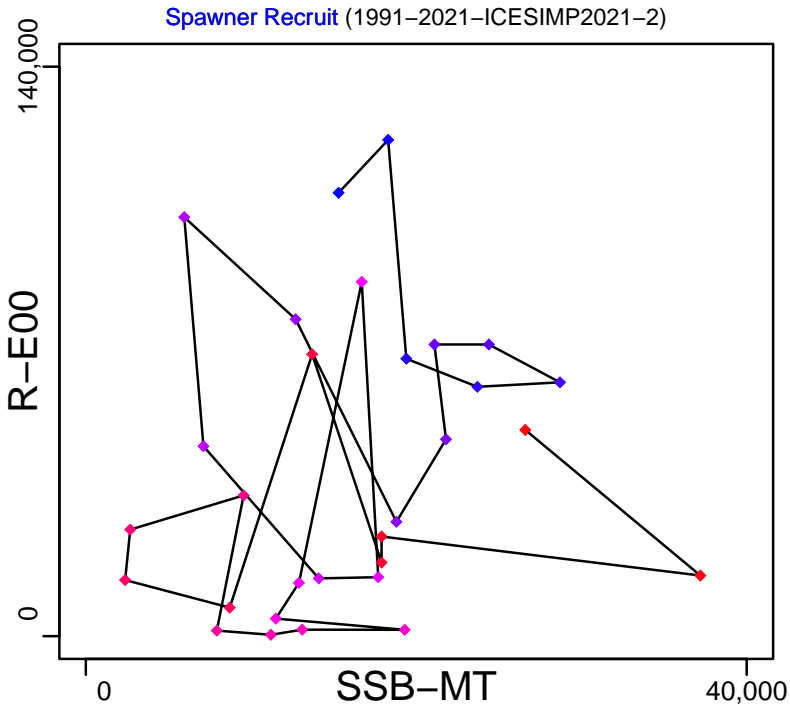
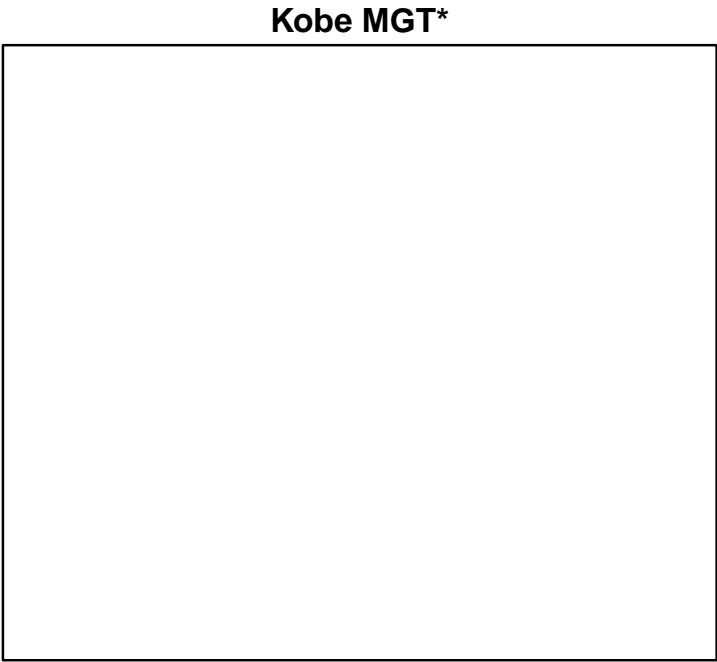
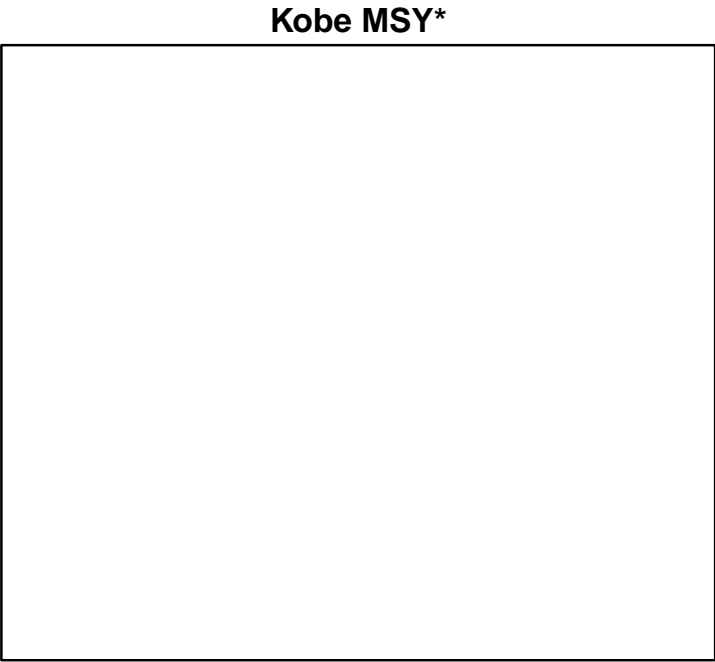


Haddock Rockall Bank [HADROCK]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADROCK-1991-2021-ICESIMP2024
Area	Rockall Bank
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, 2019, 2020, 2021, 2021, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.168
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.168
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	9000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2470
Flim	Flim-1/yr	2021	1.06
ERlim	-	-	-

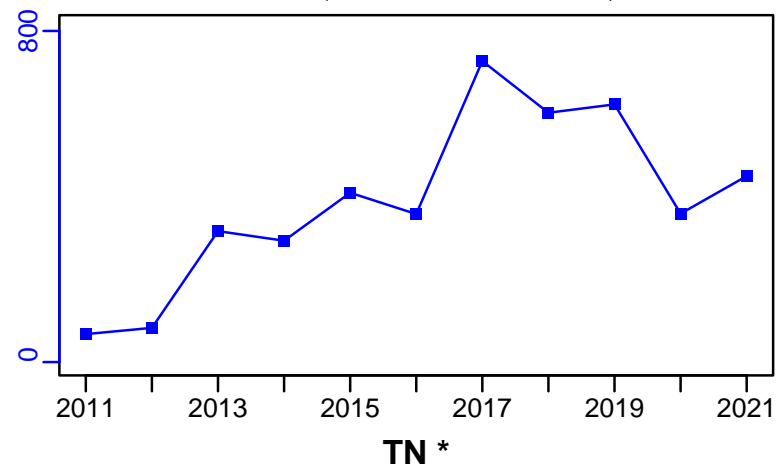
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2021	446	-	-
SSB	SSB-MT	2021	32,400	-	-
TN	-	-	-	-	-
R	R-E00	2021	50,700	-	1
F	F-1/yr	2021	0.189	-	-
ER	ER-calc-ratio	2019	0.072	-	-
TC	TC-MT	2021	5640		
TL	TL-MT	2021	5510		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.125		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.125		
ER/ERmgt	-	-	-		



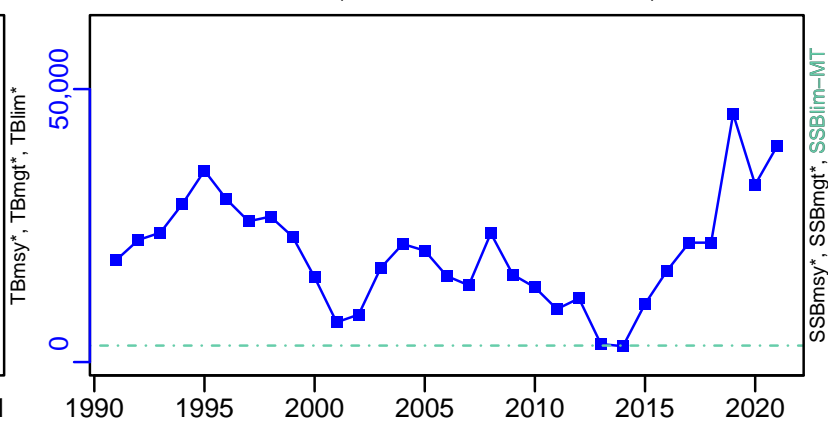
◆ Start Year ◆ End Year * No Data

Haddock Rockall Bank [HADROCK]

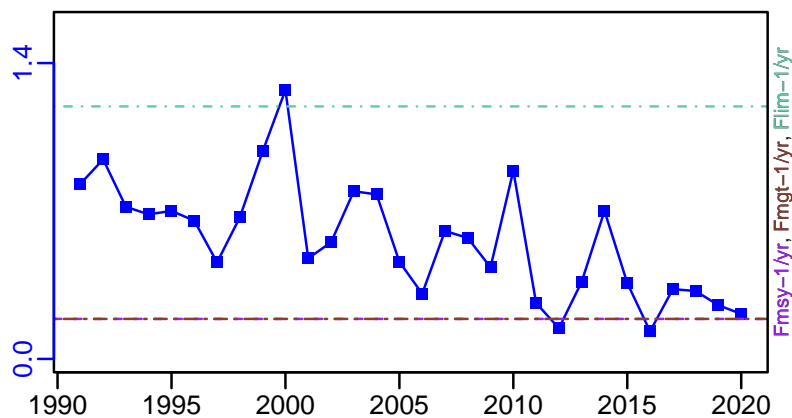
TB-index (1991–2021–ICESIMP2024)



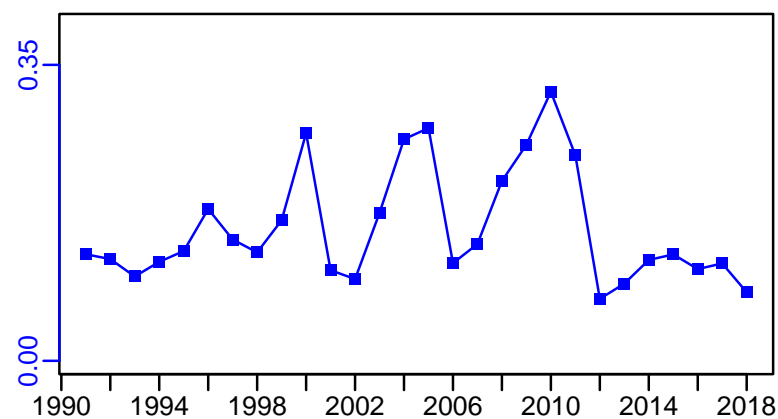
SSB-MT (1991–2021–ICESIMP2021–2)



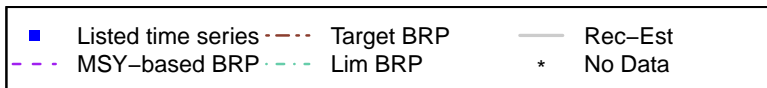
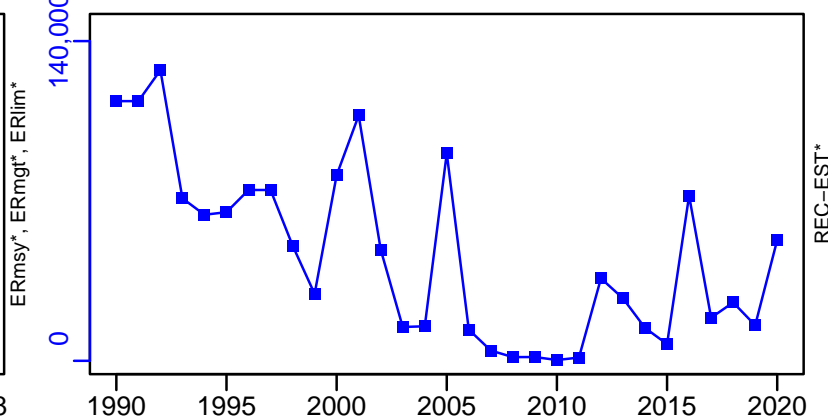
F-1/yr (1991–2021–ICESIMP2021–2)



ER-calc-ratio (1990–2019–ICESIMP2021)

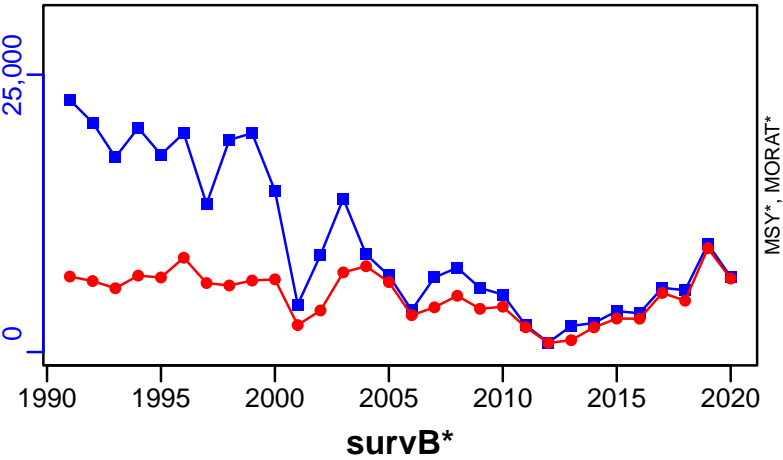


R-E00 (1991–2021–ICESIMP2021–2)



Haddock Rockall Bank [HADROCK]

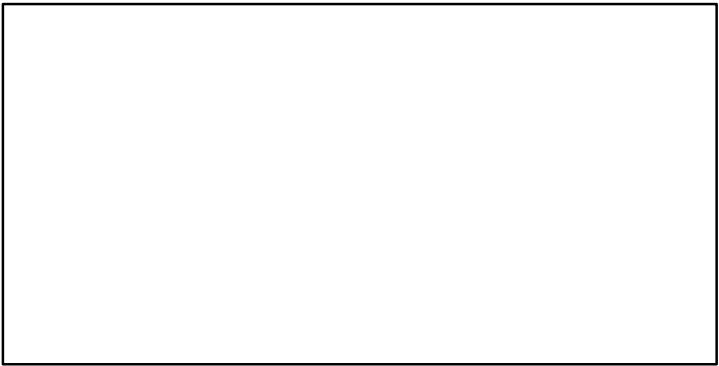
TC-MT, TL-MT, RecC* (1991-2021-ICESIMP2021-2)



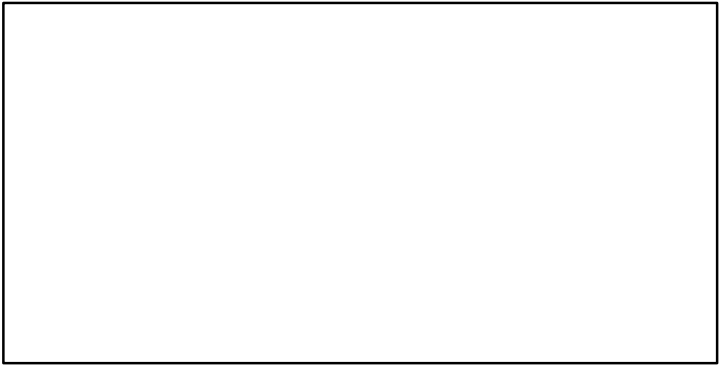
TAC*, Cpair*, Cadv*



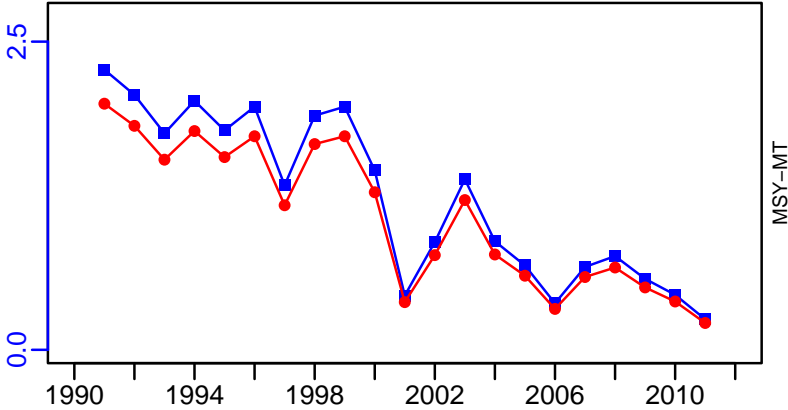
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1990-2012-CHING)



Haddock ICES 7b-k [HADVIIb-k]

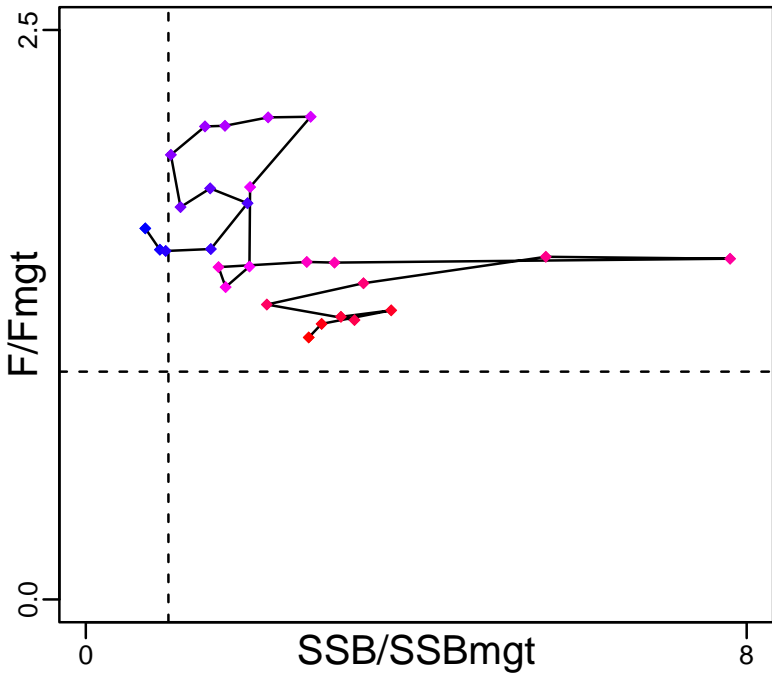
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADVIIb-k-1993-2023-ICESIMP2024
Area	ICES 7b-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021, 2023, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.353
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	12,822
Fmgt	Fmgt-1/yr	2023	0.353
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	9227
Flim	Flim-1/yr	2023	1.4
ERlim	-	-	-

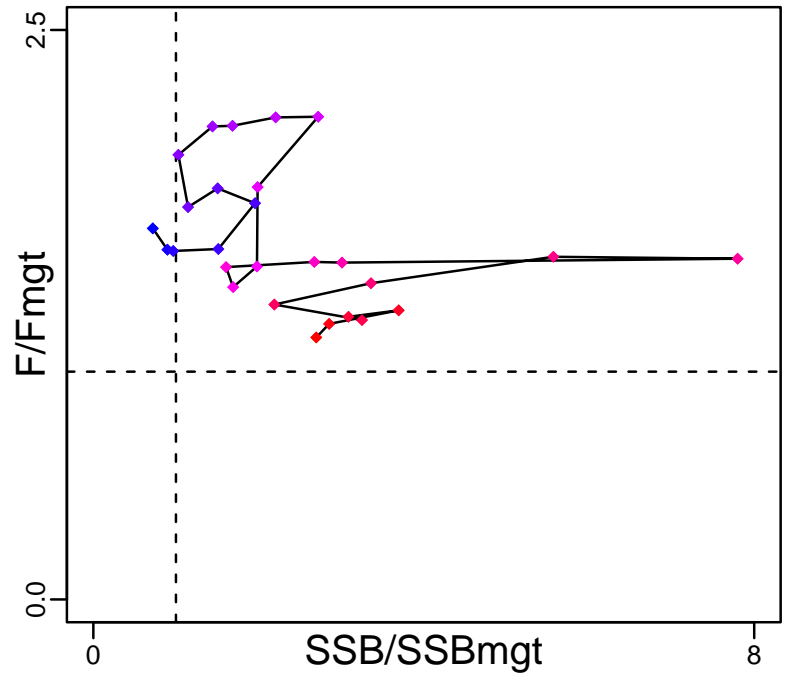
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	74,659	-	-
SSB	SSB-MT	2023	42,660	-	-
TN	-	-	-	-	-
R	R-E00	2023	224,539	-	0
F	F-1/yr	2023	0.417	-	3 to 5
ER	ER-calc-ratio	2019	0.168	-	-
TC	TC-MT	2023	11,668		
TL	TL-MT	2023	8895		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	1.181		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	5.163		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.181		
ER/ERmgt	-	-	-		

Haddock ICES 7b-k [HADVIIb-k]

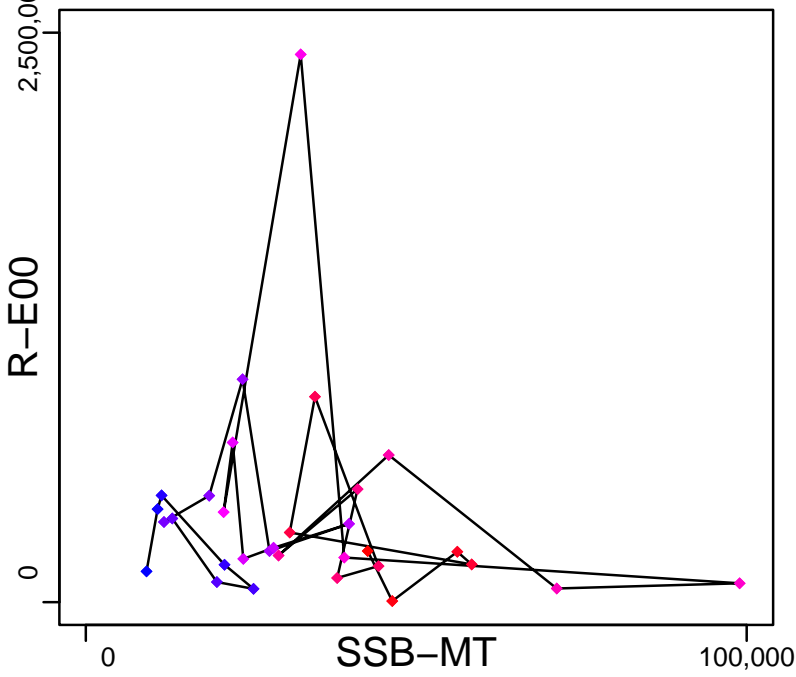
Kobe MSYpref (1993–2020–ICESIMP2021–2)



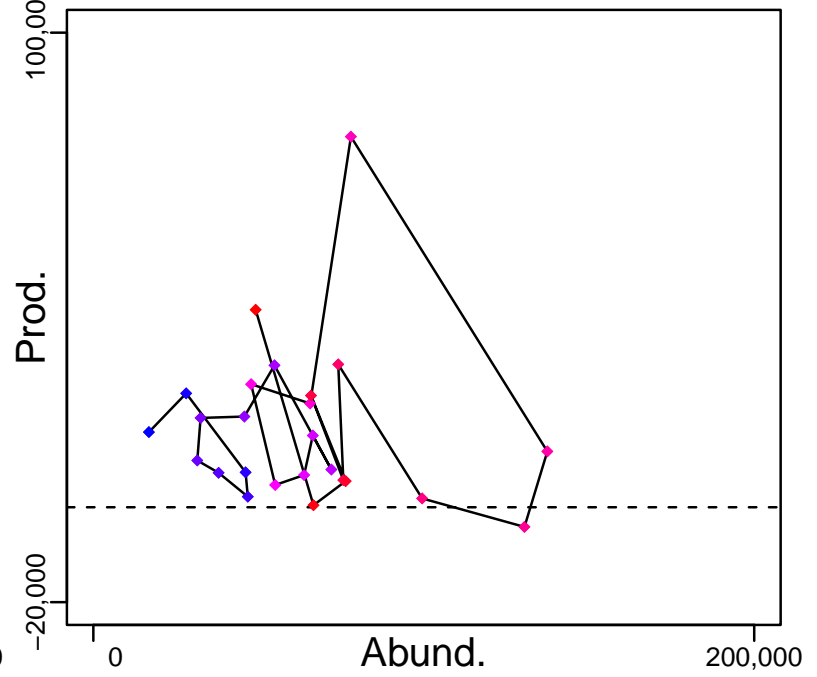
Kobe MGTpref (1993–2020–ICESIMP2021–2)



Spawner Recruit (1993–2023–ICESIMP2024)



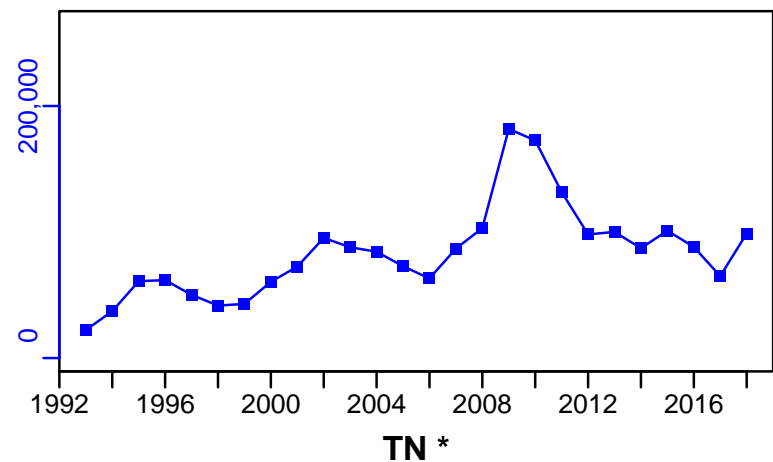
Production (1993–2019–ICESIMP2021)



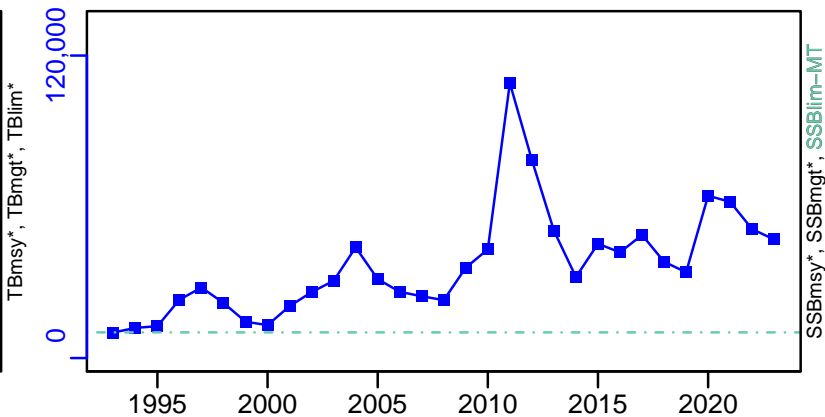
◆ Start Year ◆ End Year * No Data

Haddock ICES 7b-k [HADVIIb-k]

TB-MT (1993–2019–ICESIMP2021)



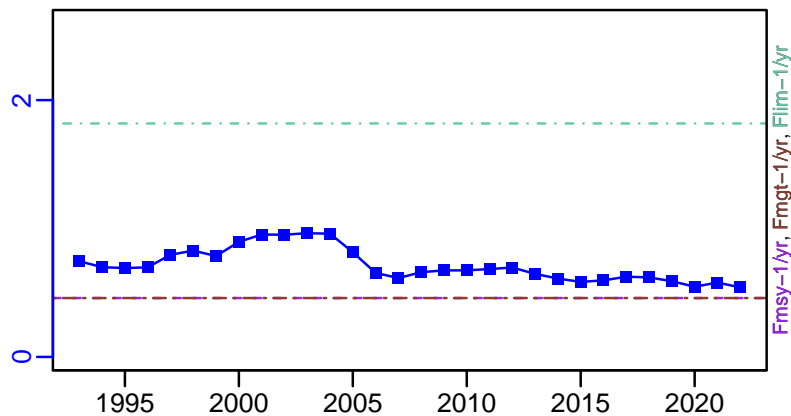
SSB-MT (1993–2023–ICESIMP2024)



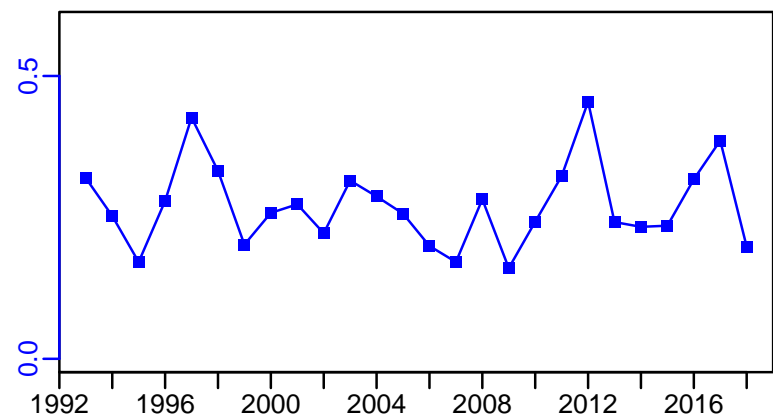
TN *



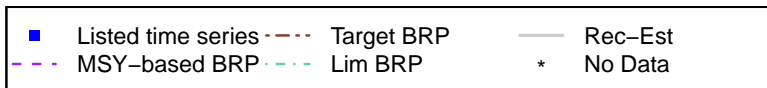
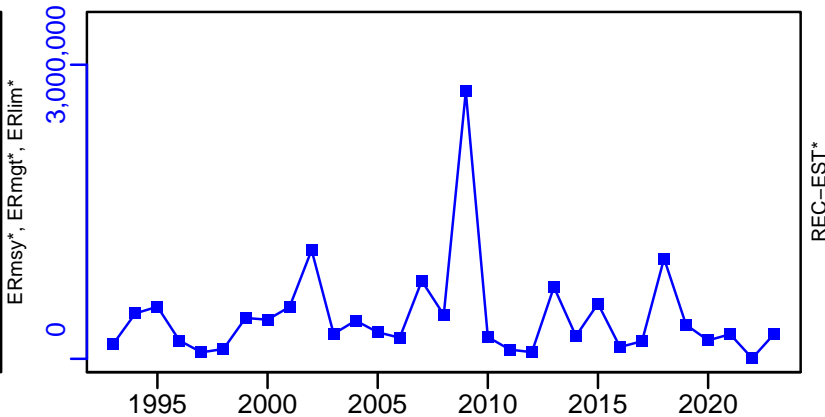
F-1/yr (1993–2023–ICESIMP2024)



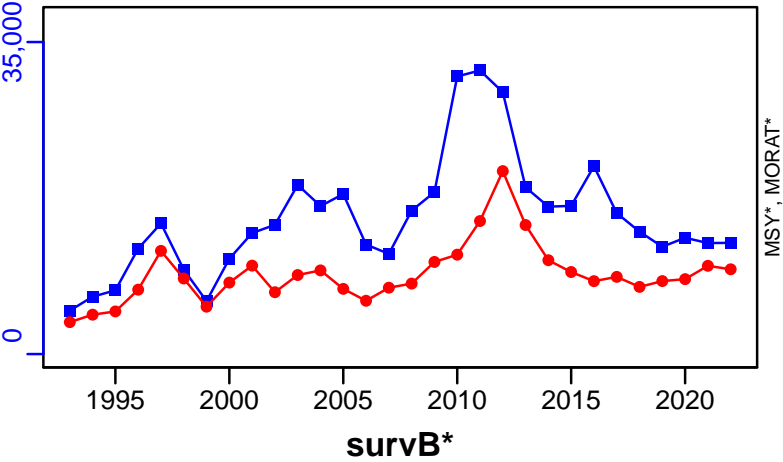
ER-calc-ratio (1993–2019–ICESIMP2021)



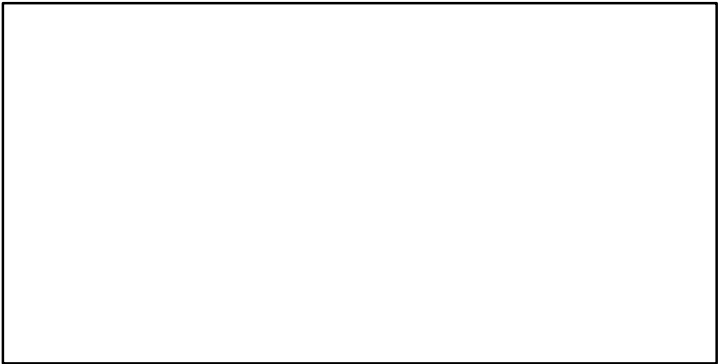
R-E00 (1993–2023–ICESIMP2024)



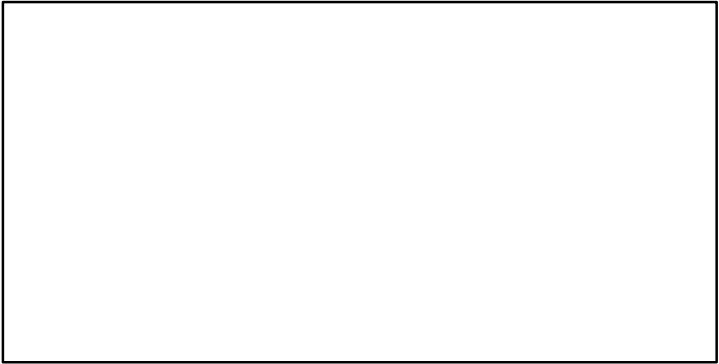
TC-MT, TL-MT, RecC* (1993-2023-ICESIMP2024)



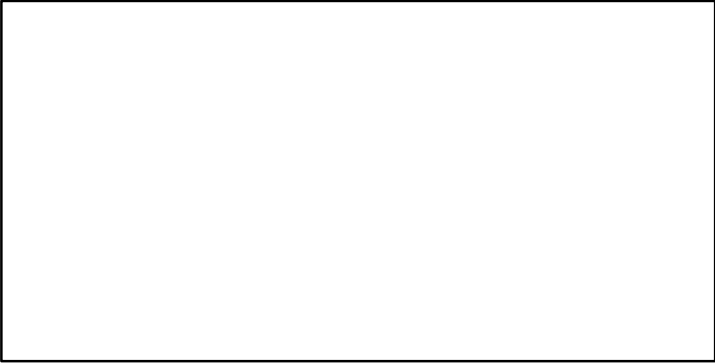
TAC*, Cpair*, Cadv*



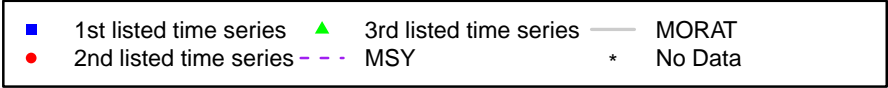
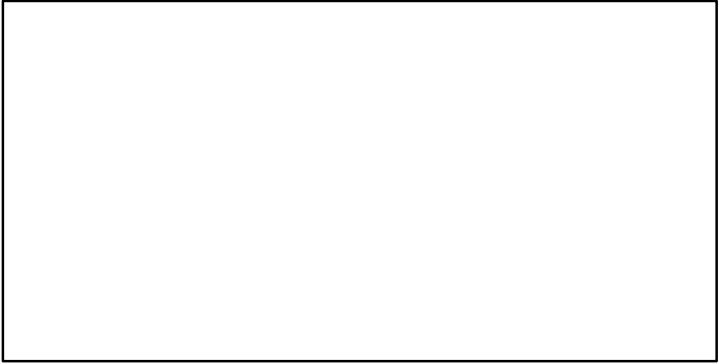
CPUE*



EFFORT*



CdivMSY*



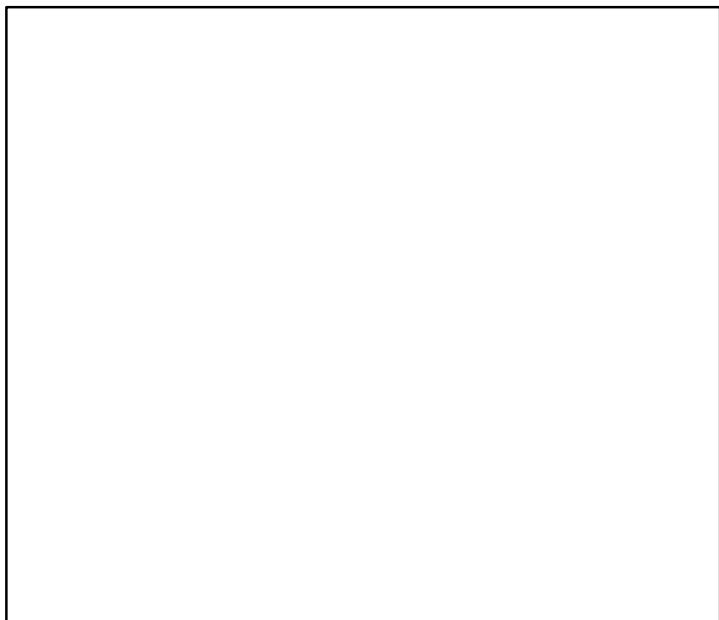
Hake Malta Island and South of Sicily (GSA 15, 16) [HAKEMEDGSA15-16]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA15-16-2005-2009-OSIO
Area	Malta Island and South of Sicily (GSA 15, 16)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2009

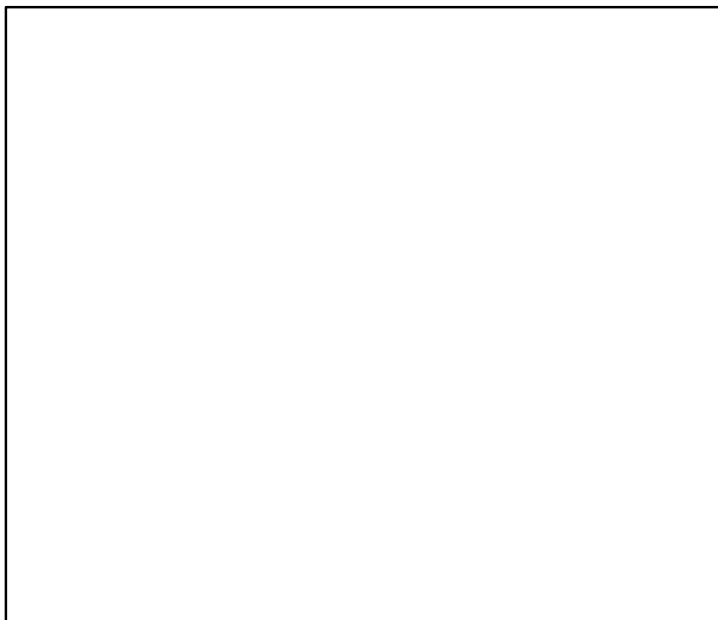
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2009	0.15
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	1.12	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	1590		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2009	7.467		
ER/ERmgt	-	-	-		

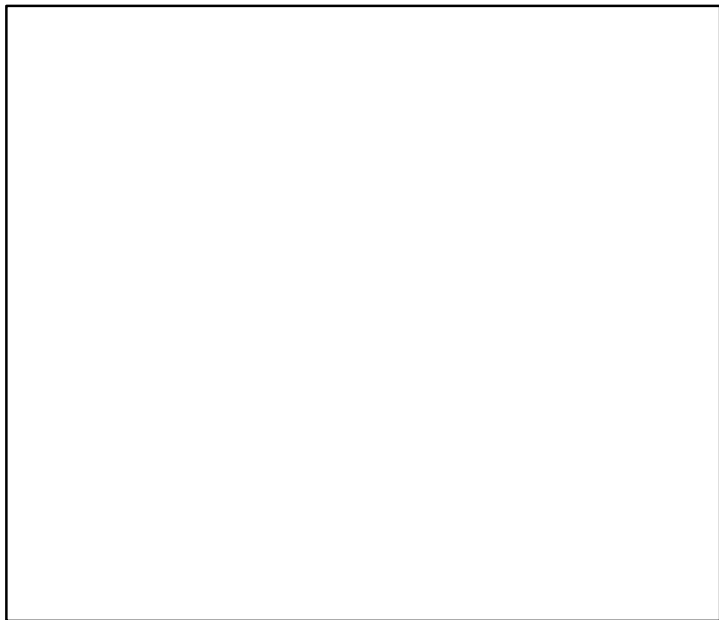
Kobe MSY*



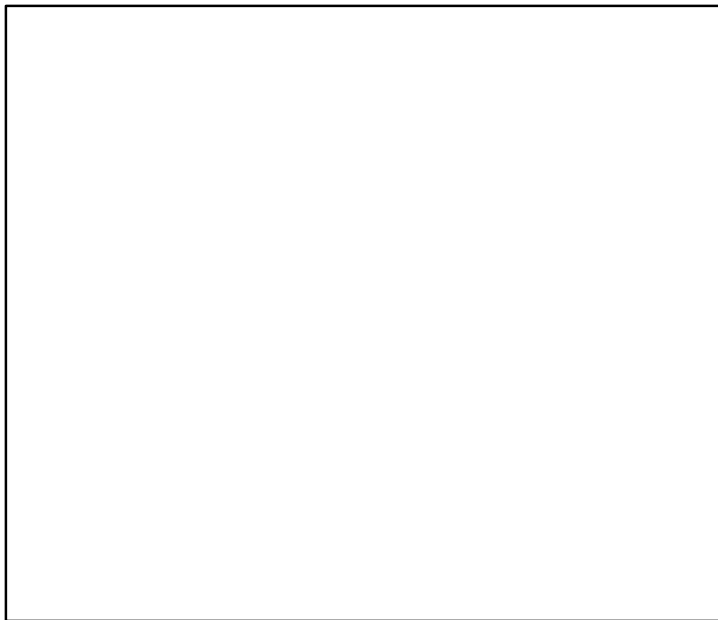
Kobe MGT*



Spawner Recruit*

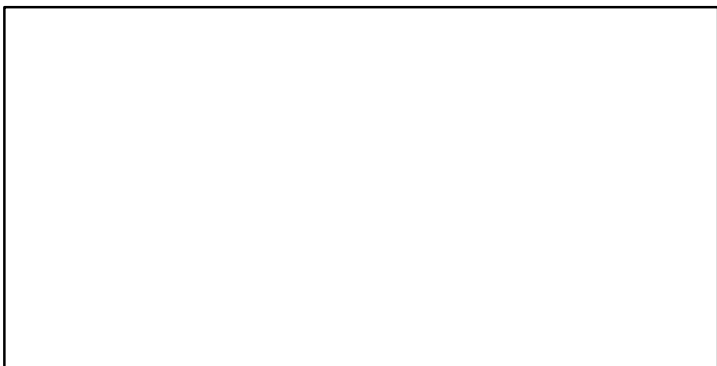


Production*

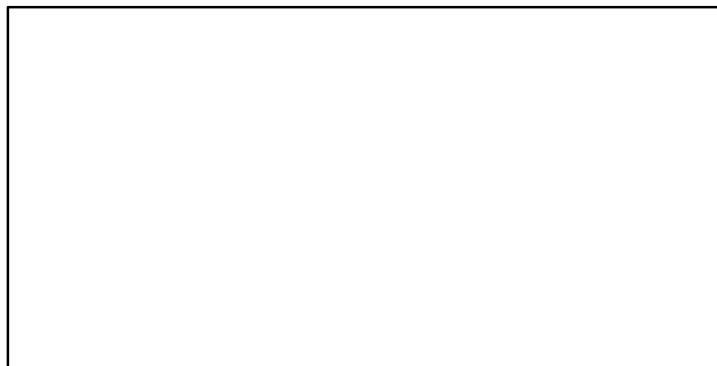


◆ Start Year ◆ End Year * No Data

TB*



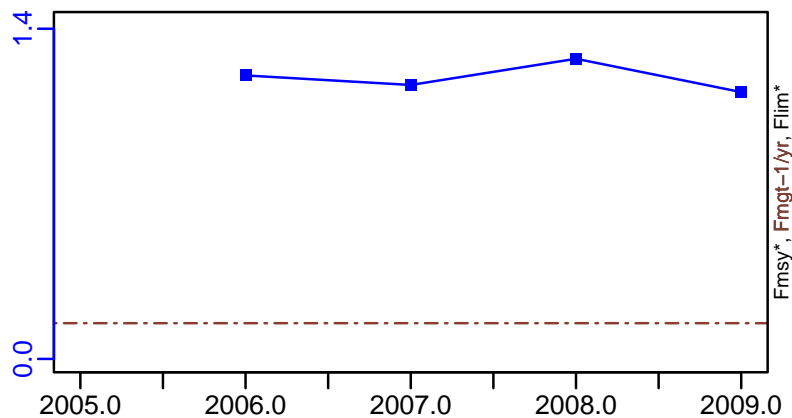
SSB*



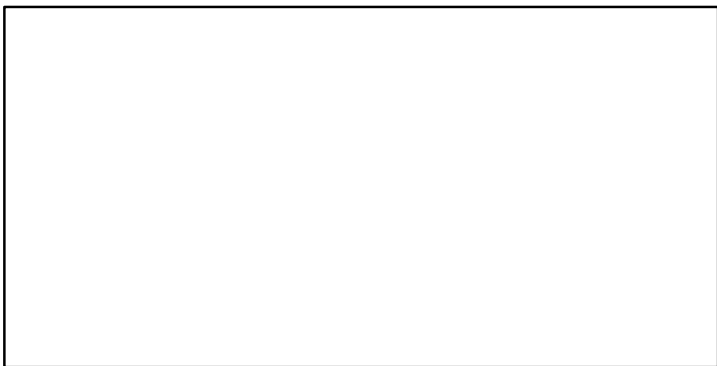
TN *



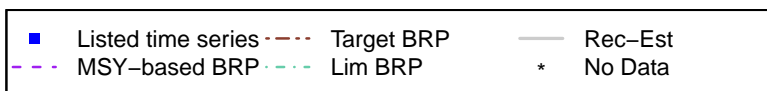
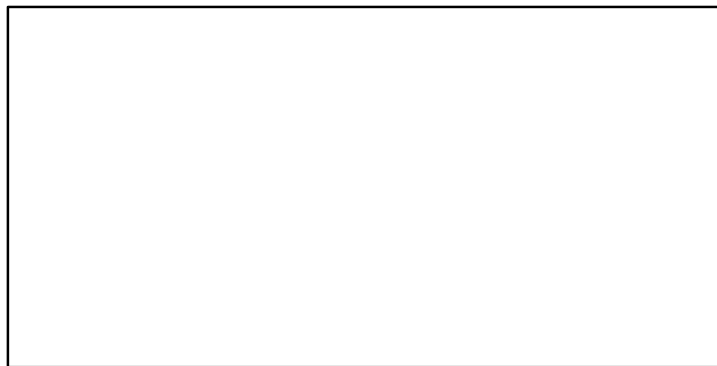
F-1/yr (2005-2009-OSIO)



ER*

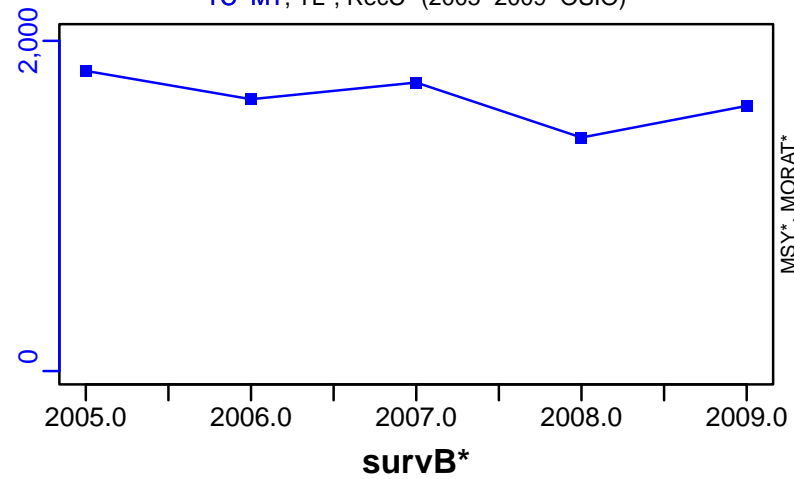


Recruits*

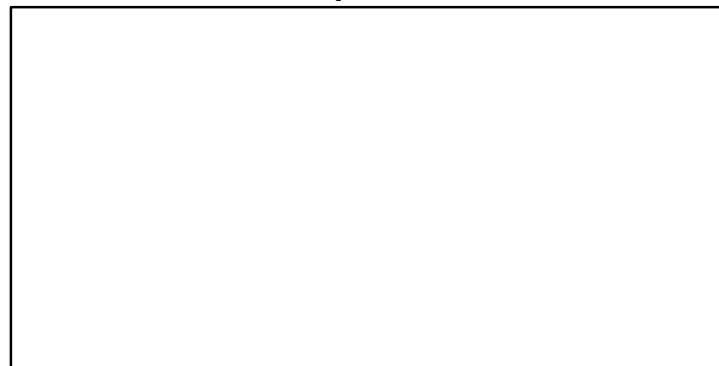


Hake Malta Island and South of Sicily (GSA 15, 16) [HAKEMEDGSA15-16]

TC-MT, TL*, RecC* (2005-2009-OSIO)



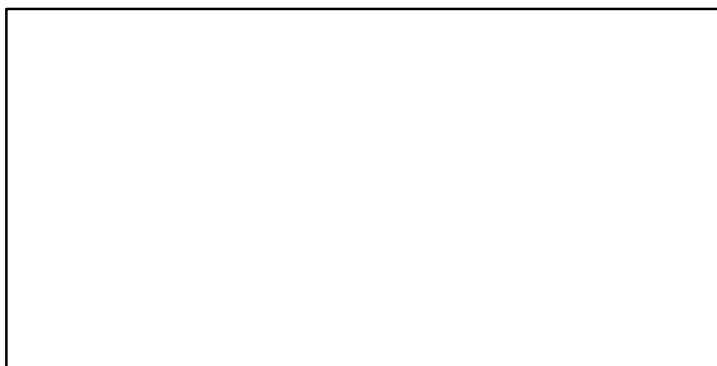
TAC*, Cpair*, Cadv*



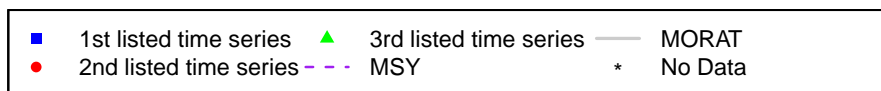
CPUE*



EFFORT*



CdivMSY*

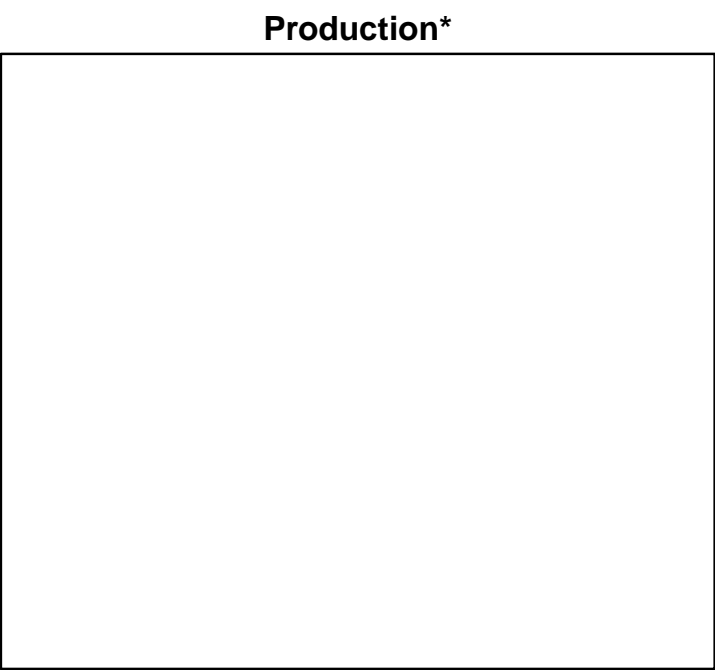
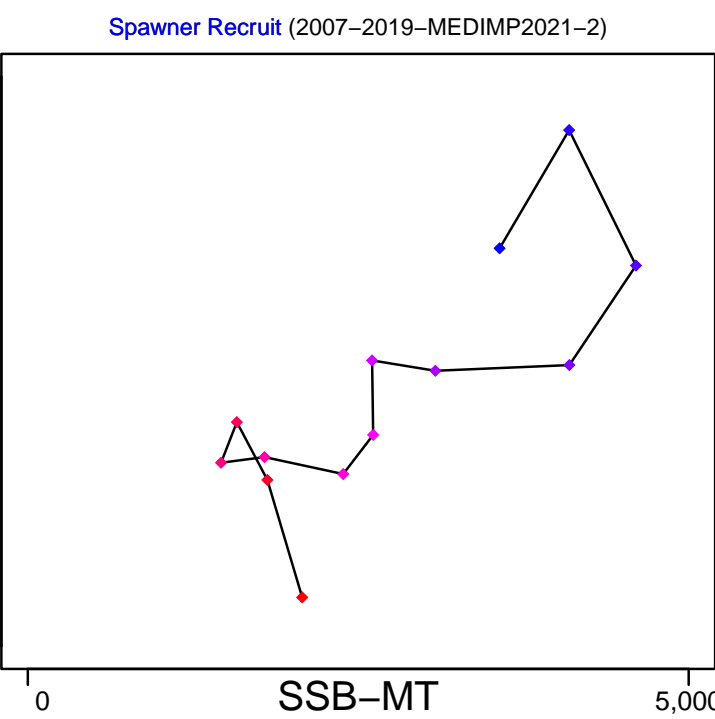
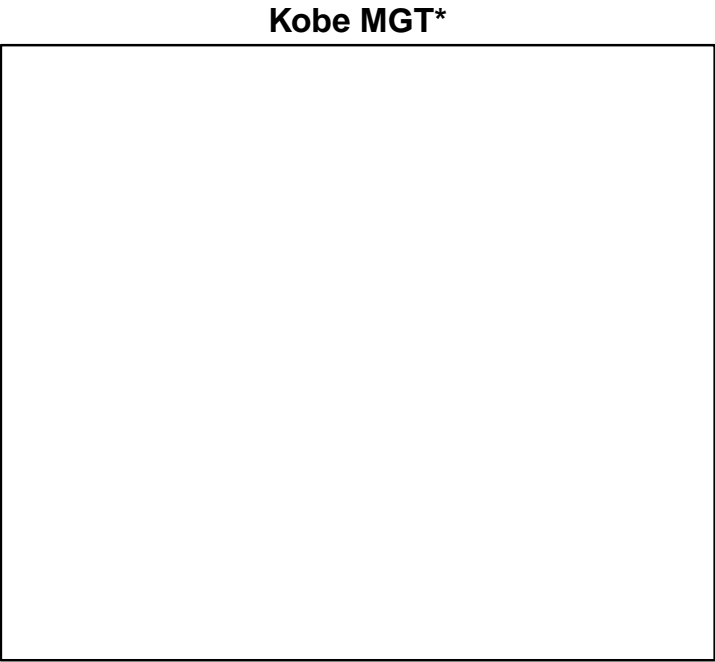
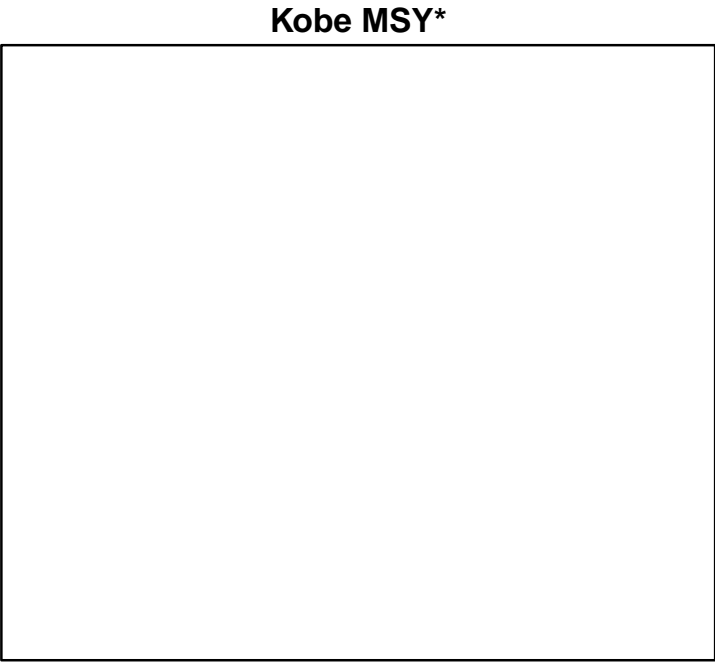


Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA1-7-2007-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 1-7
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, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.388
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	5186
Flim	-	-	-
ERlim	-	-	-

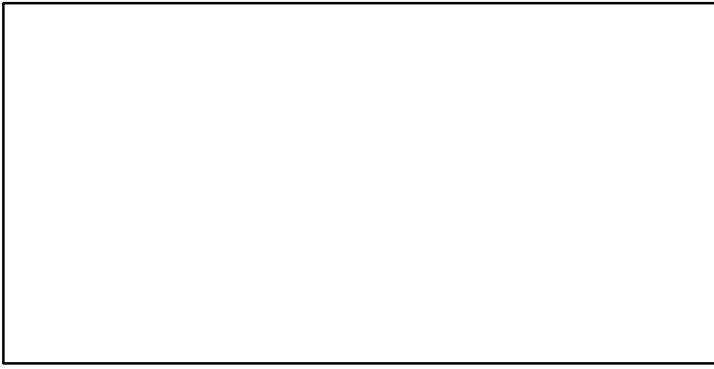
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	2076	-	-
TN	-	-	-	-	-
R	R-E00	2019	42,849,214	-	-
F	F-1/yr	2019	1.585	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	3148		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	4.085		
ER/ERmgt	-	-	-		



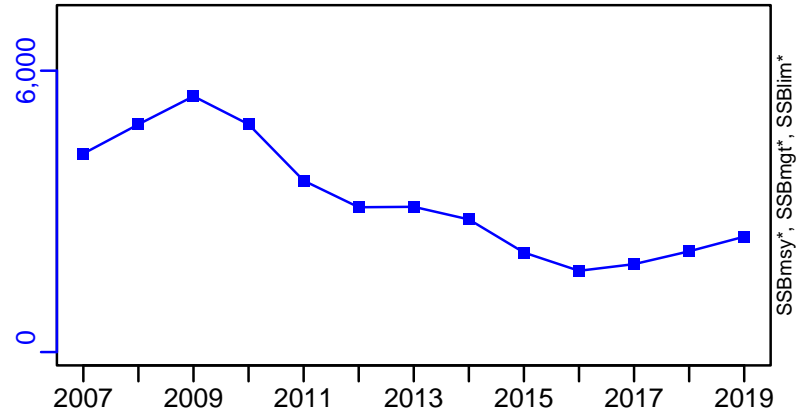
◆ Start Year ◆ End Year * No Data

Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

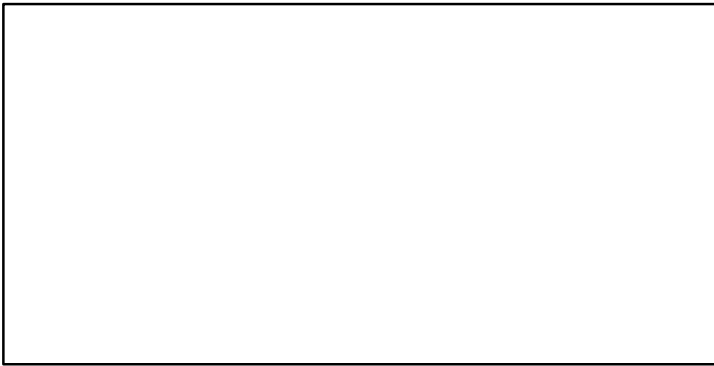
TB*



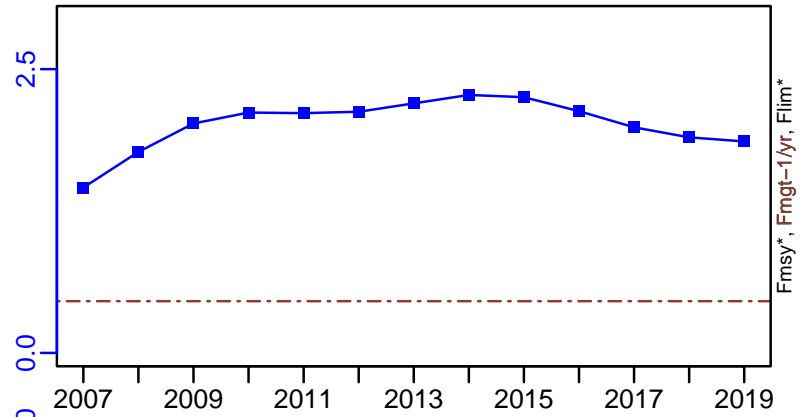
SSB-MT (2007-2019-MEDIMP2021-2)



TN *



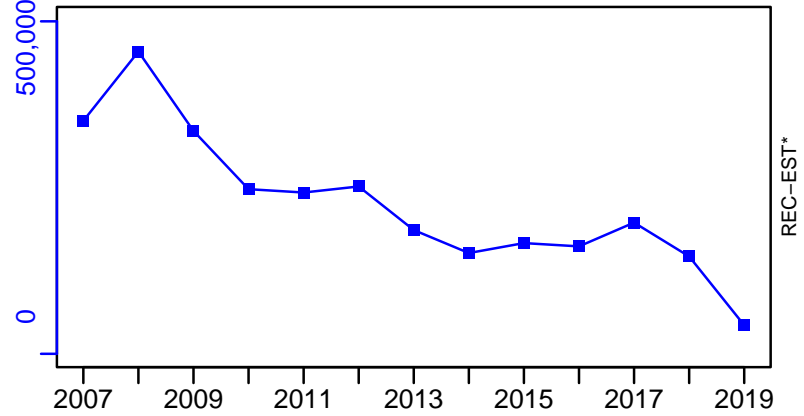
F-1/yr (2007-2019-MEDIMP2021-2)



ER*

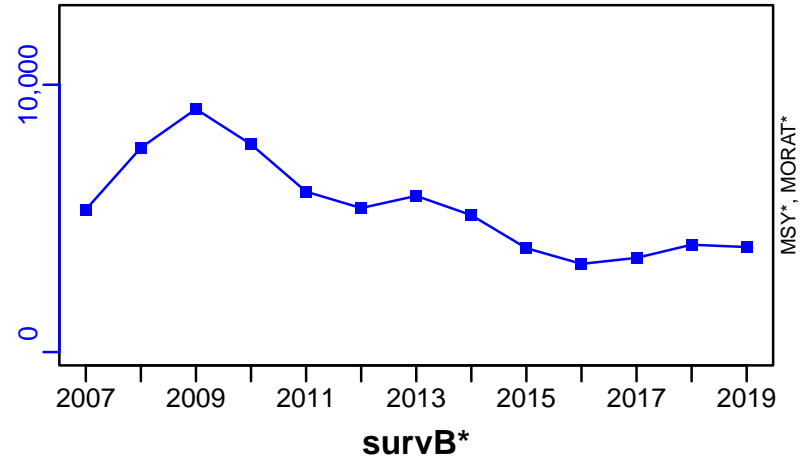


R-E00 (2007-2019-MEDIMP2021-2)

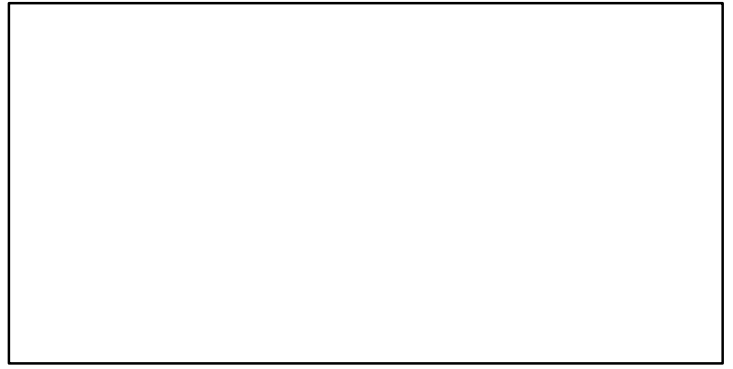


Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

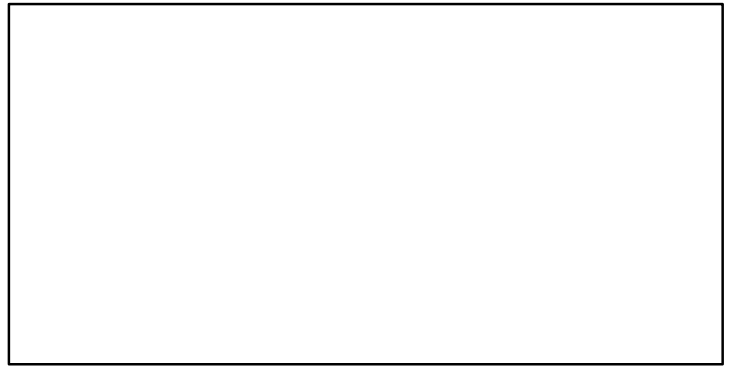
TC-MT, TL*, RecC* (2007-2019-MEDIMP2021-2)



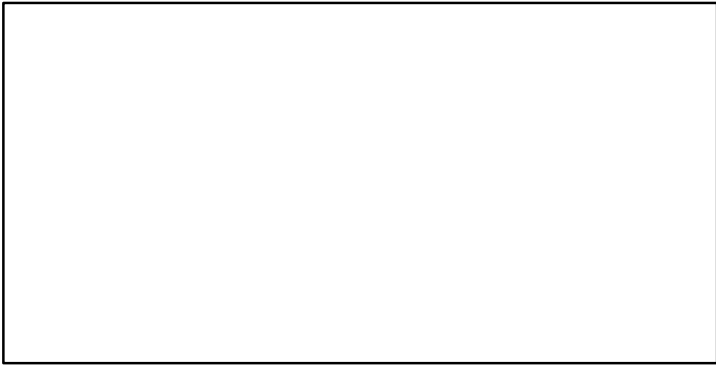
TAC*, Cpair*, Cadv*



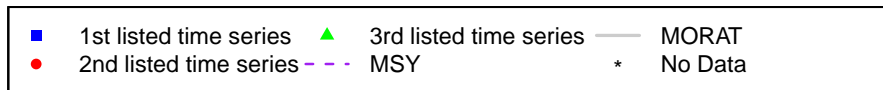
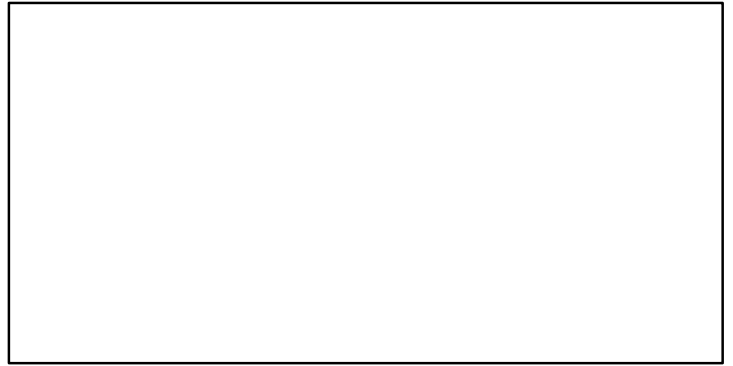
CPUE*



EFFORT*



CdivMSY*



Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA17-18-1998-2019-MEDIMP2021-2
Area	Adriatic Sea (GSA 17,18)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019, 2014

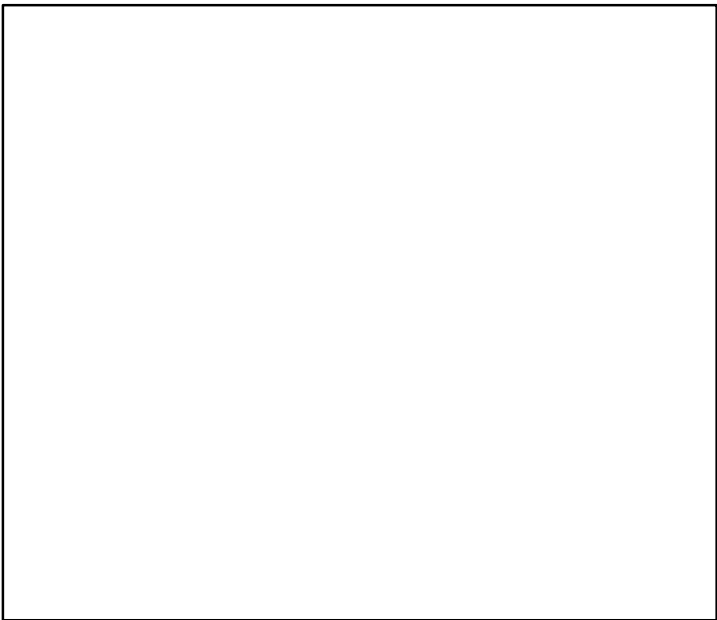
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.179
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.179
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	3322	-	-
TN	-	-	-	-	-
R	R-E00	2019	326,847,000	-	-
F	F-1/yr	2019	0.41	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	5361		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.291		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.291		
ER/ERmgt	-	-	-		

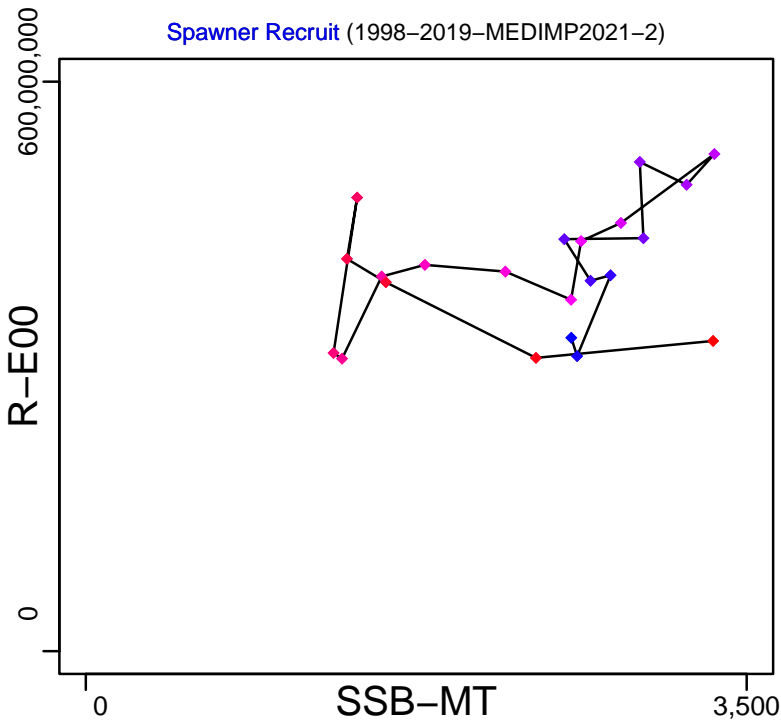
Kobe MSY*



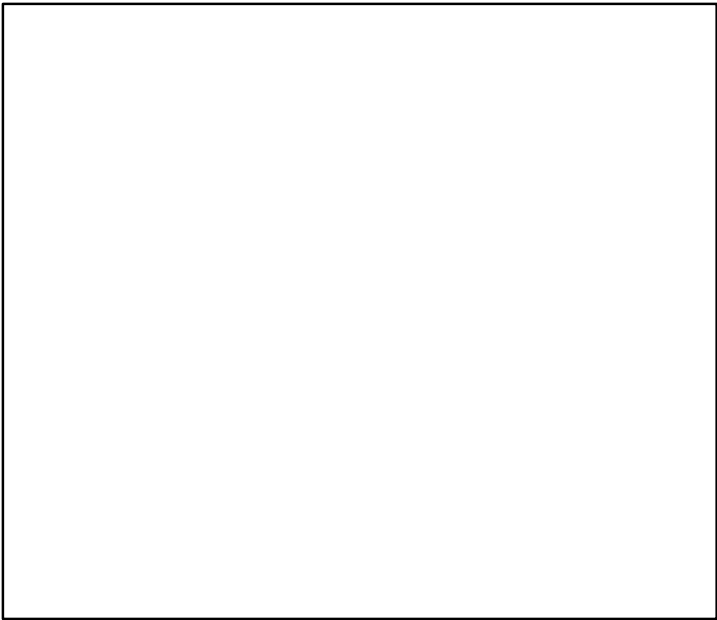
Kobe MGT*



Spawner Recruit (1998-2019-MEDIMP2021-2)



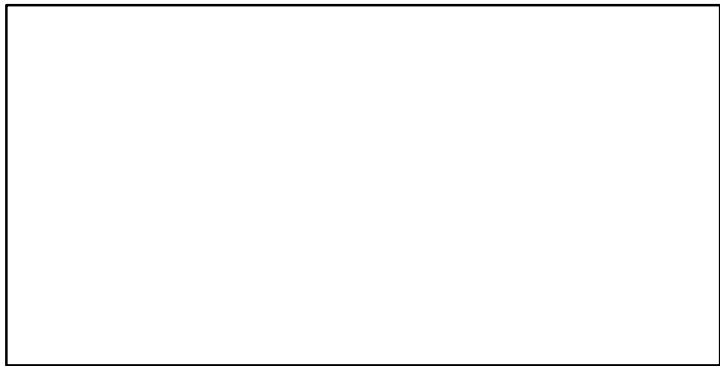
Production*



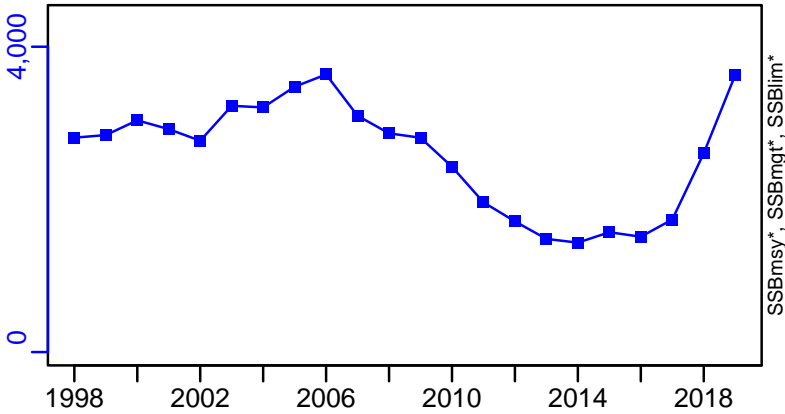
◆ Start Year ◆ End Year * No Data

Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

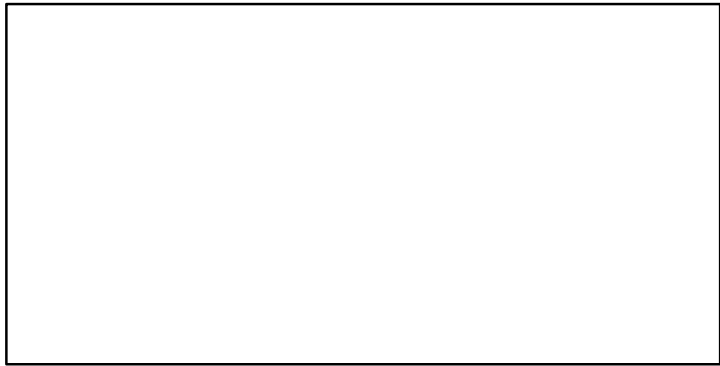
TB*



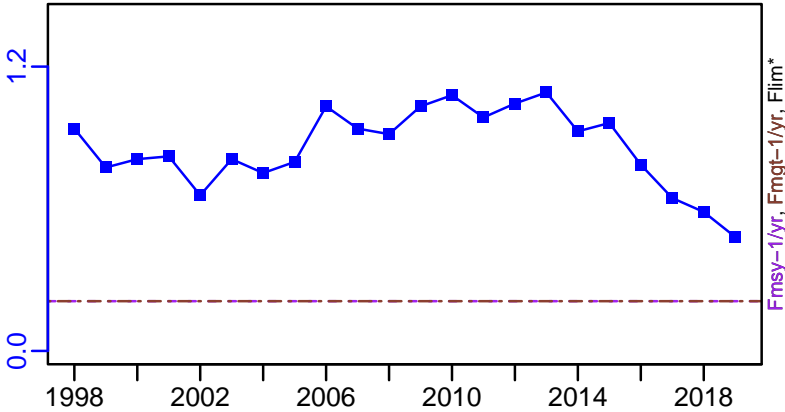
SSB-MT (1998-2019-MEDIMP2021-2)



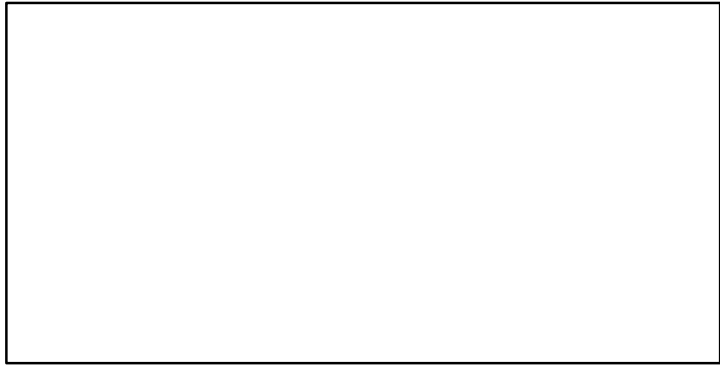
TN *



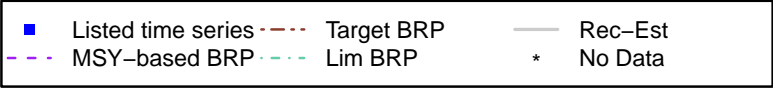
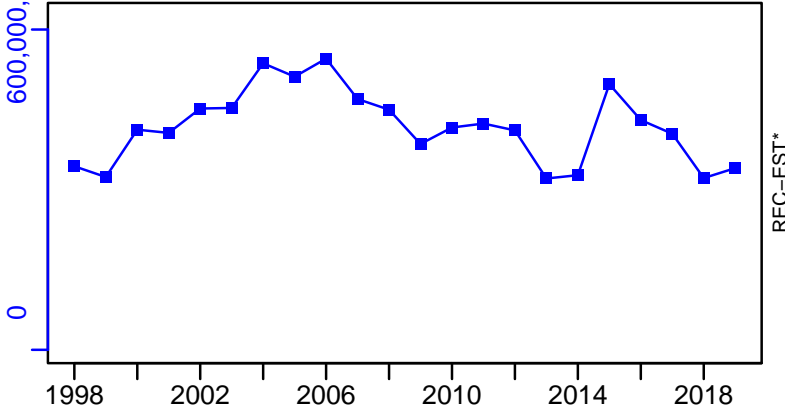
F-1/yr (1998-2019-MEDIMP2021-2)



ER*

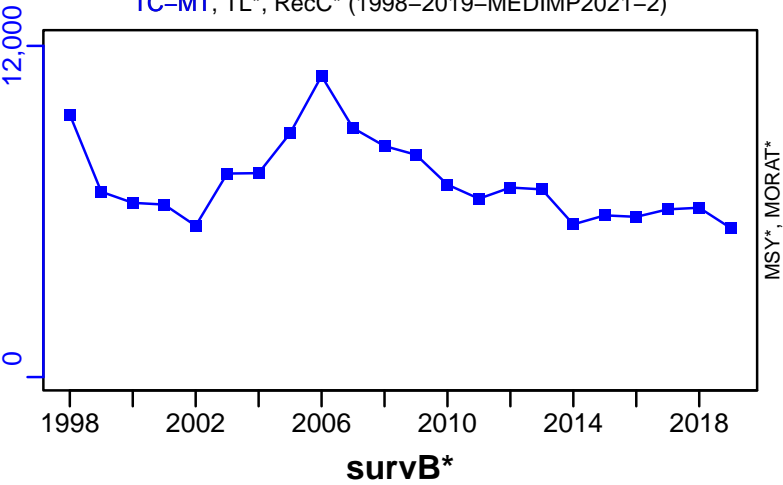


R-E00 (1998-2019-MEDIMP2021-2)



Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

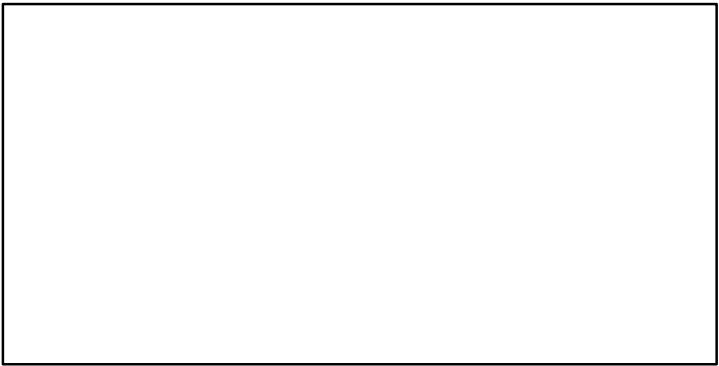
TC-MT, TL*, RecC* (1998-2019-MEDIMP2021-2)



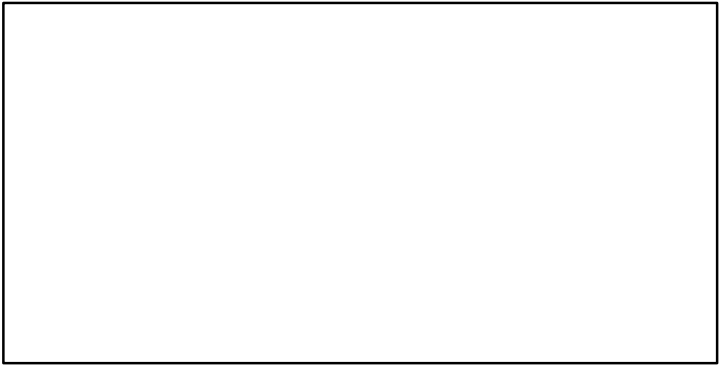
TAC*, Cpair*, Cadv*



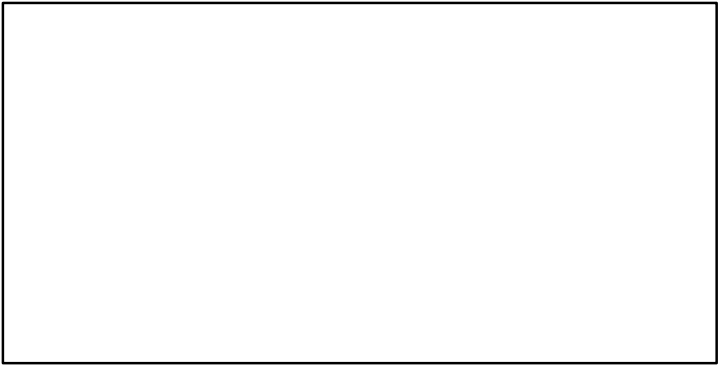
CPUE*



EFFORT*



CdivMSY*



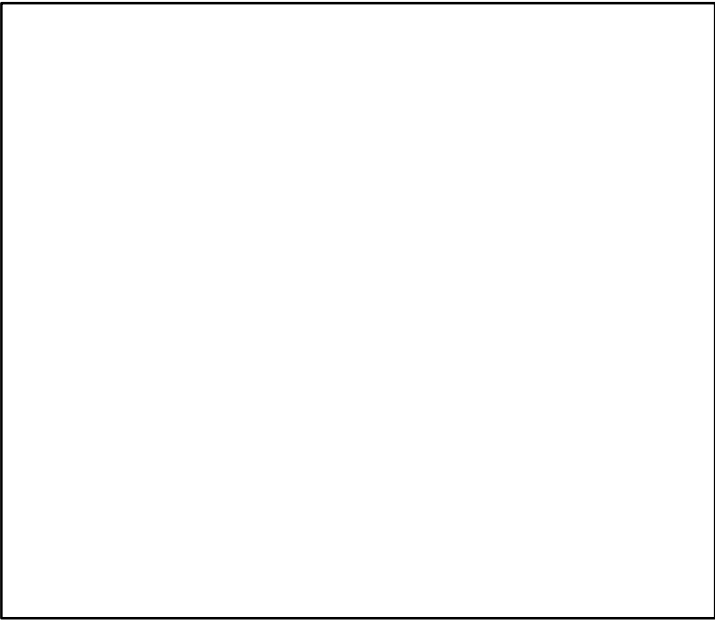
Hake Western Ionian Sea [HAKEMEDGSA19]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA19-2004-2019-MEDIMP2021-2
Area	Western Ionian 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	2019, 2014

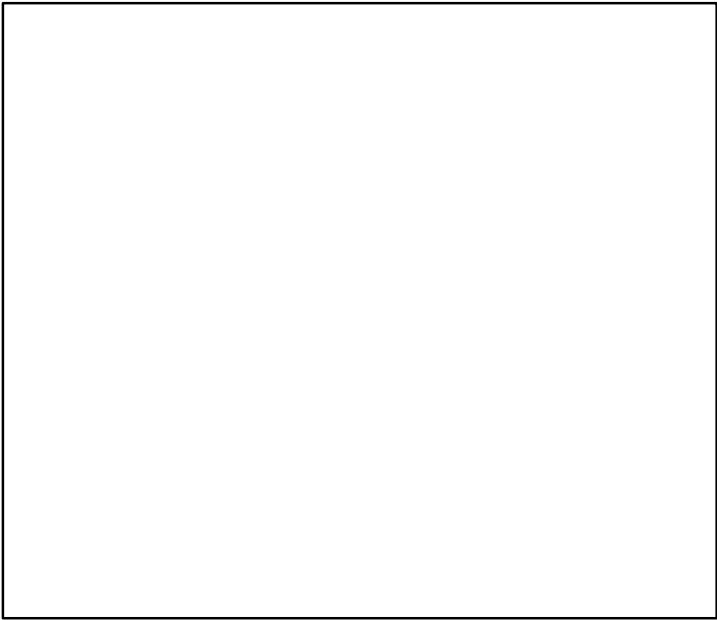
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.135
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	1193	-	-
TN	-	-	-	-	-
R	R-E00	2019	50,329,414	-	-
F	F-1/yr	2019	0.325	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	594		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.405		
ER/ERmgt	-	-	-		

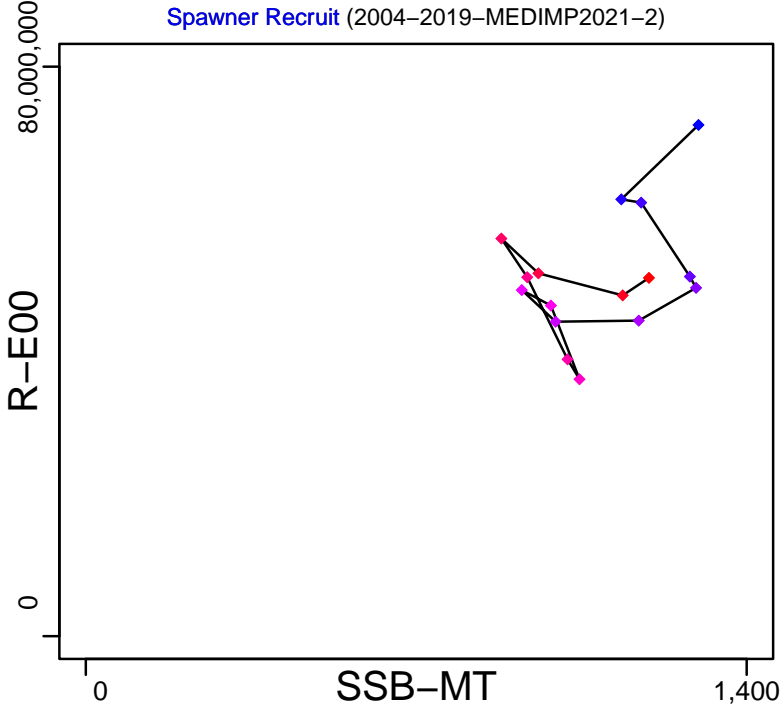
Kobe MSY*



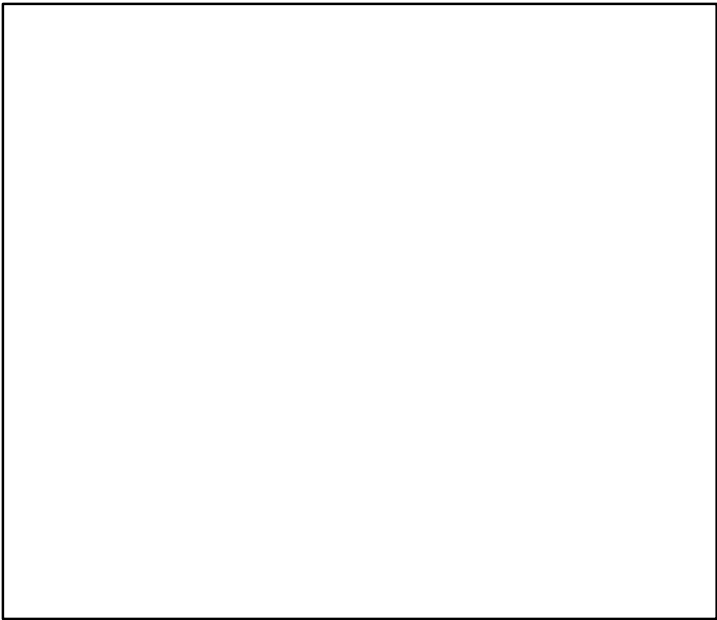
Kobe MGT*



Spawner Recruit (2004–2019–MEDIMP2021–2)



Production*



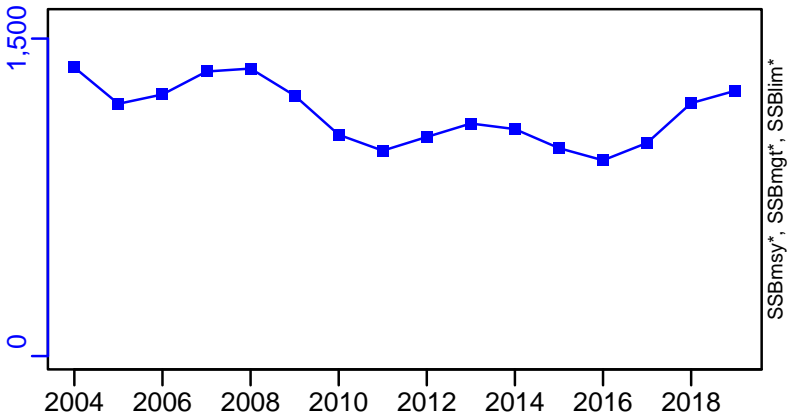
◆ Start Year ◆ End Year * No Data

Hake Western Ionian Sea [HAKEMEDGSA19]

TB*



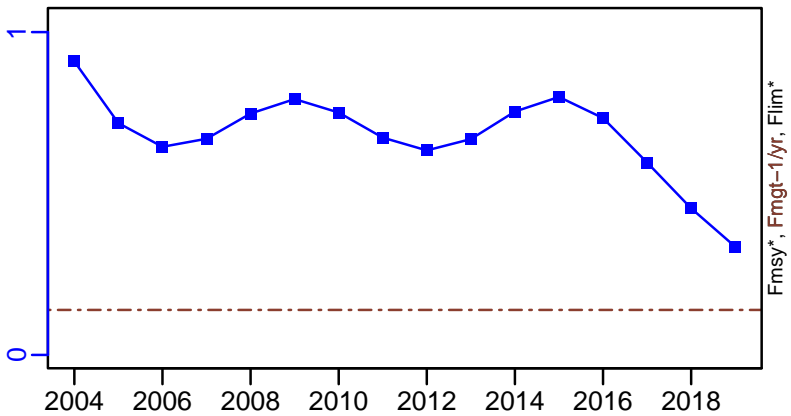
SSB-MT (2004-2019-MEDIMP2021-2)



TN *



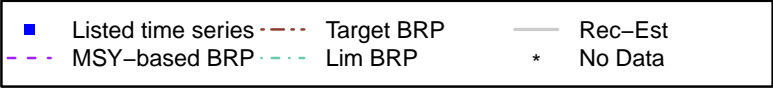
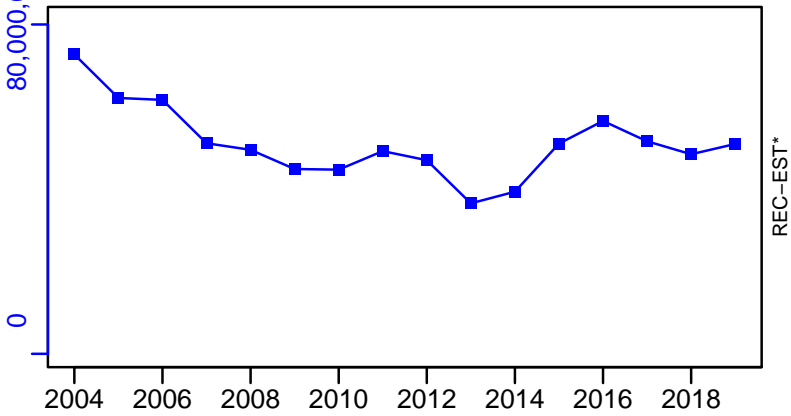
F-1/yr (2004-2019-MEDIMP2021-2)



ER*

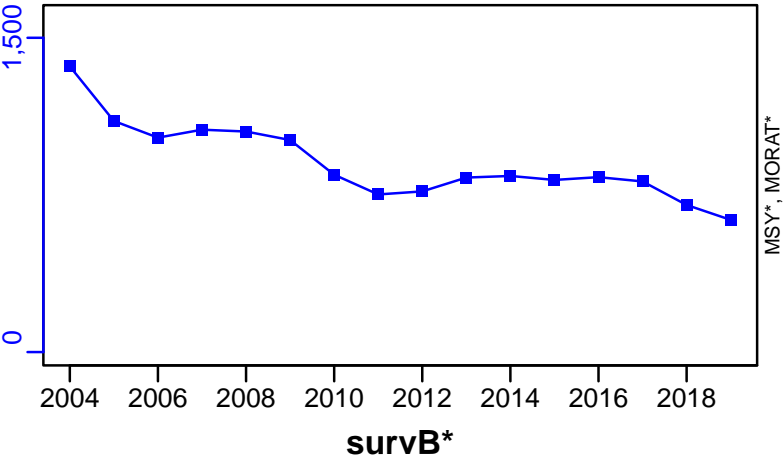


R-E00 (2004-2019-MEDIMP2021-2)



Hake Western Ionian Sea [HAKEMEDGSA19]

TC-MT, TL*, RecC* (2004-2019-MEDIMP2021-2)



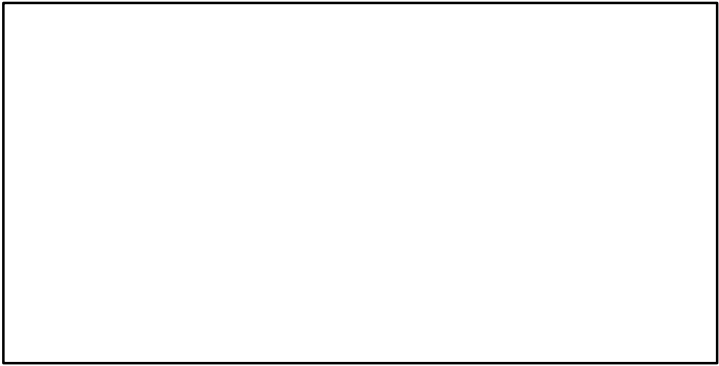
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



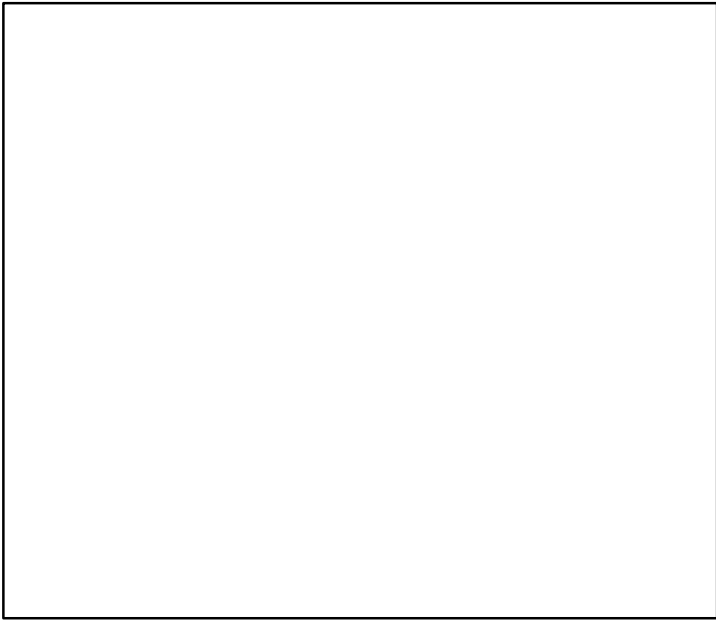
Hake Eastern Ionian Sea [HAKEMEDGSA20]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA20-2003-2019-MEDIMP2021-2
Area	Eastern Ionian 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	2008, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.358
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	1237	-	-
TN	-	-	-	-	-
R	R-E00	2019	98,572,383	-	-
F	F-1/yr	2019	0.745	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	872		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.082		
ER/ERmgt	-	-	-		

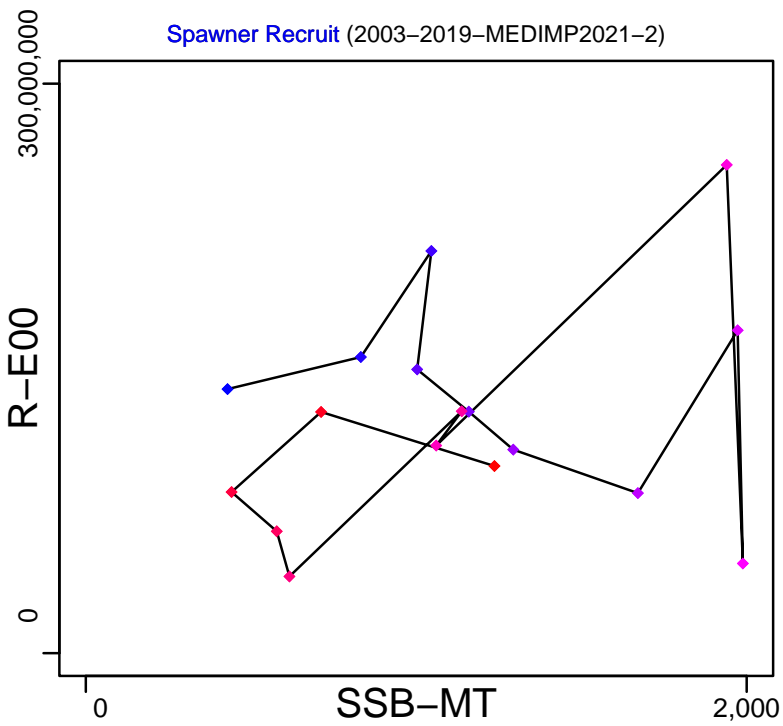
Kobe MSY*



Kobe MGT*



Spawner Recruit (2003–2019–MEDIMP2021–2)



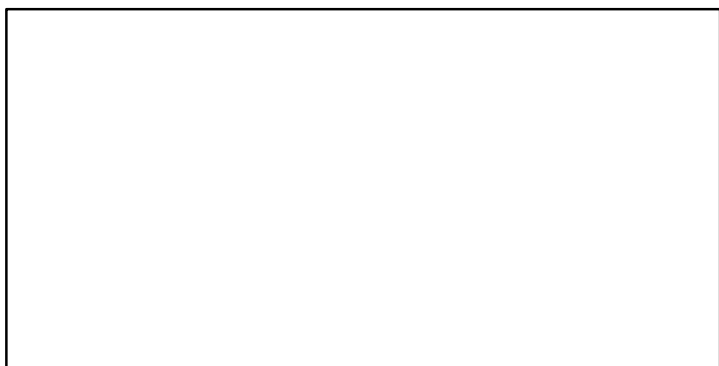
Production*



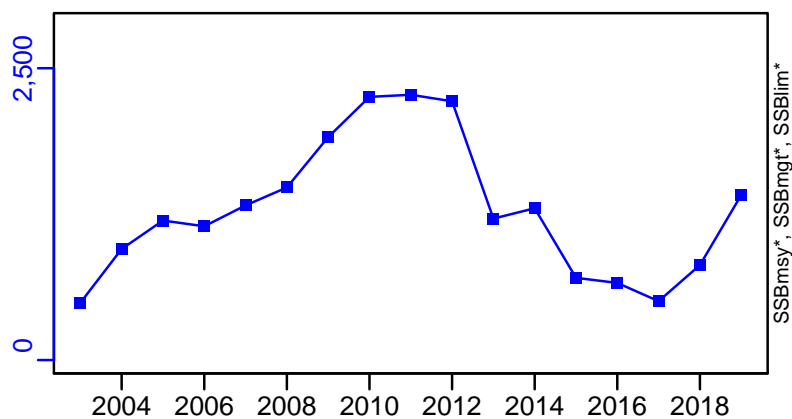
◆ Start Year ◆ End Year * No Data

Hake Eastern Ionian Sea [HAKEMEDGSA20]

TB*



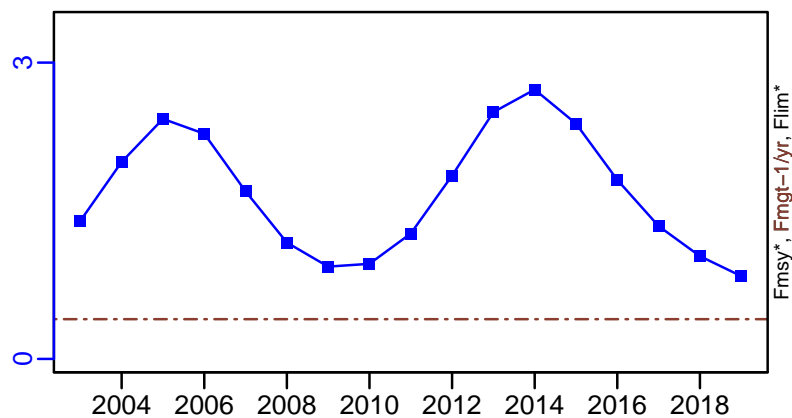
SSB-MT (2003-2019-MEDIMP2021-2)



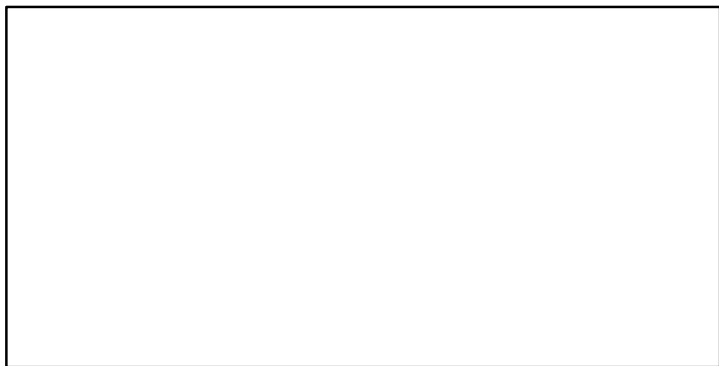
TN *



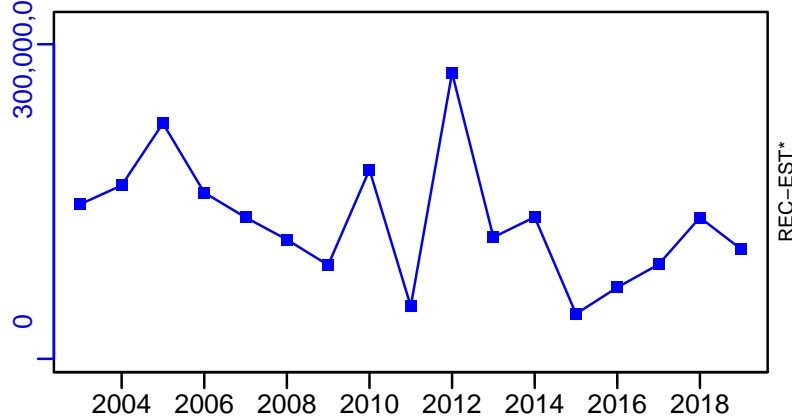
F-1/yr (2003-2019-MEDIMP2021-2)



ER*

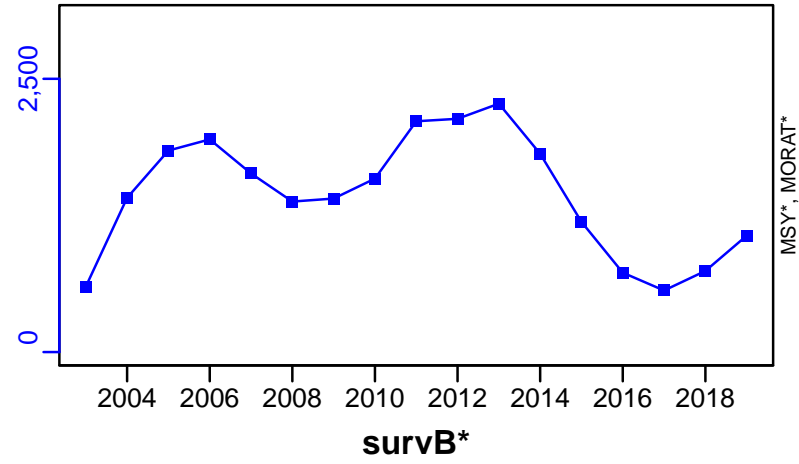


R-E00 (2003-2019-MEDIMP2021-2)

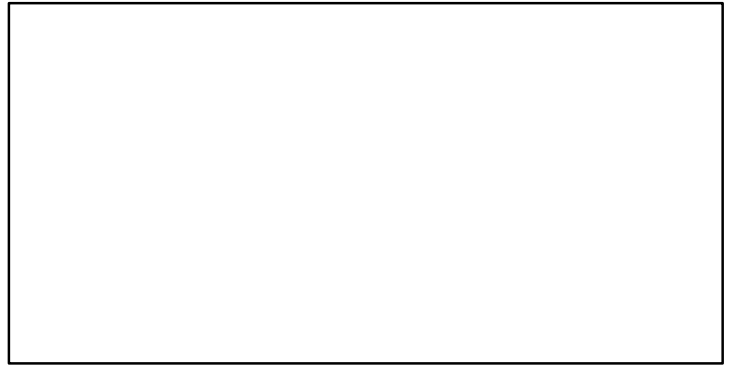


Hake Eastern Ionian Sea [HAKEMEDGSA20]

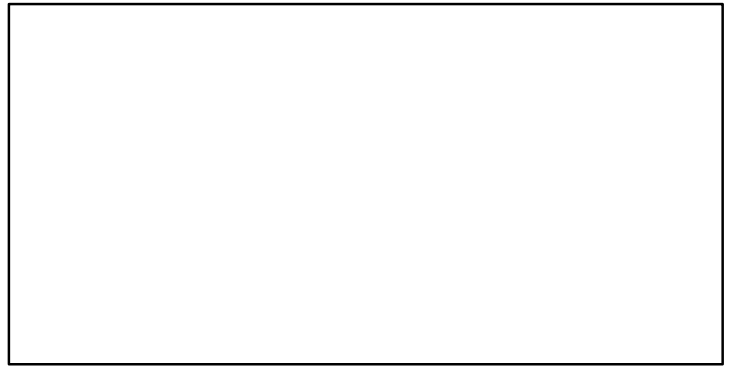
TC-MT, TL*, RecC* (2003–2019–MEDIMP2021–2)



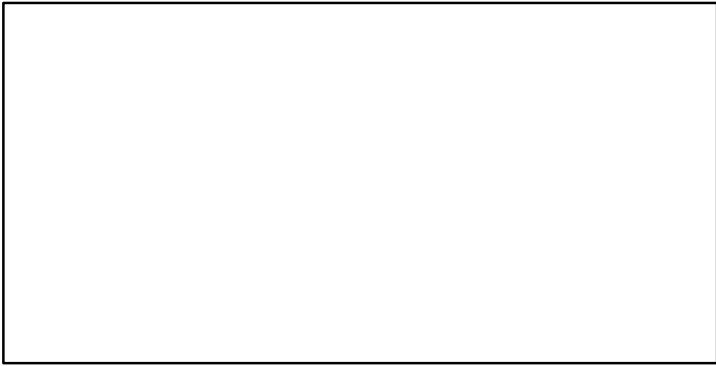
TAC*, Cpair*, Cadv*



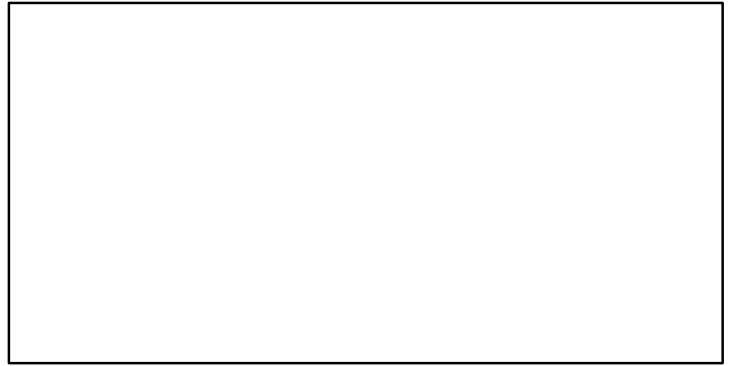
CPUE*



EFFORT*



CdivMSY*



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

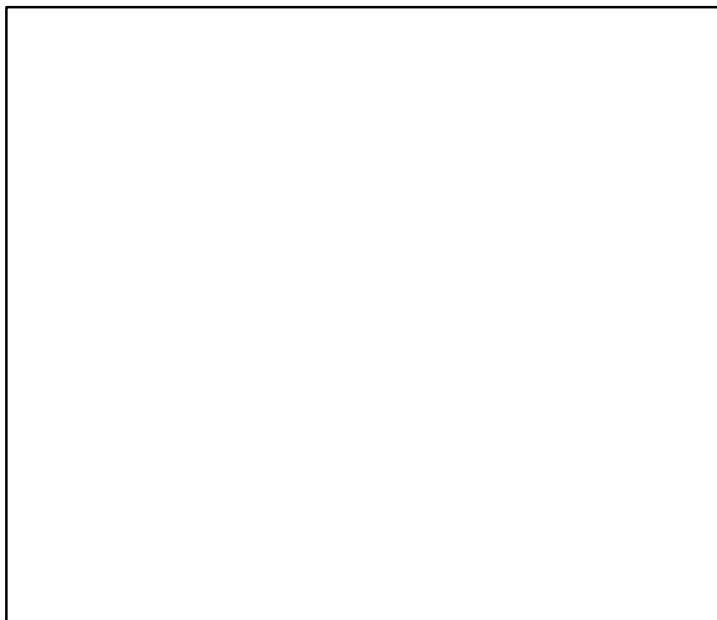
Hake Aegean Sea and Crete Island (GSA 22,23) [HAKEMEDGSA22-23]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA22-23-2003-2008-OSIO
Area	Aegean Sea and Crete Island (GSA 22,23)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2008

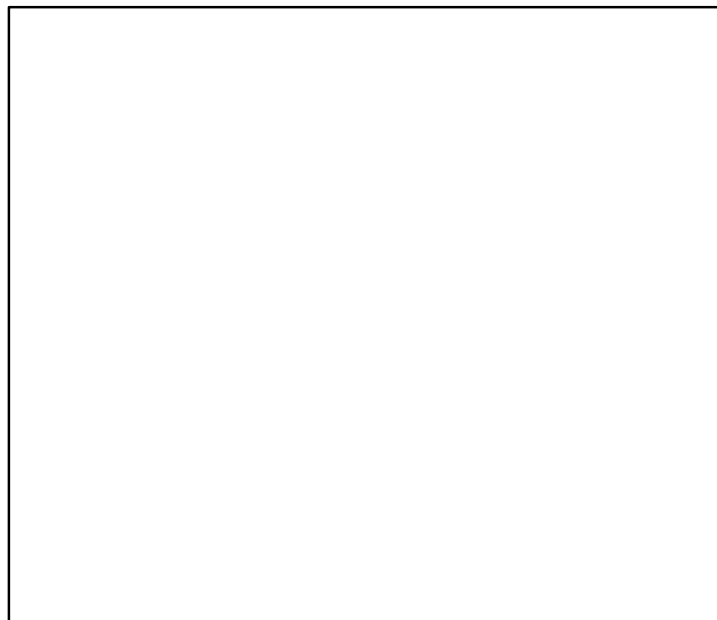
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2008	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	5650	-	2+
TN	-	-	-	-	-
R	R-E00	2008	3.75×10^8	-	-
F	F-1/yr	2008	0.83	-	-
ER	-	-	-	-	-
TC	TC-MT	2008	7160		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2008	3.458		
ER/ERmgt	-	-	-		

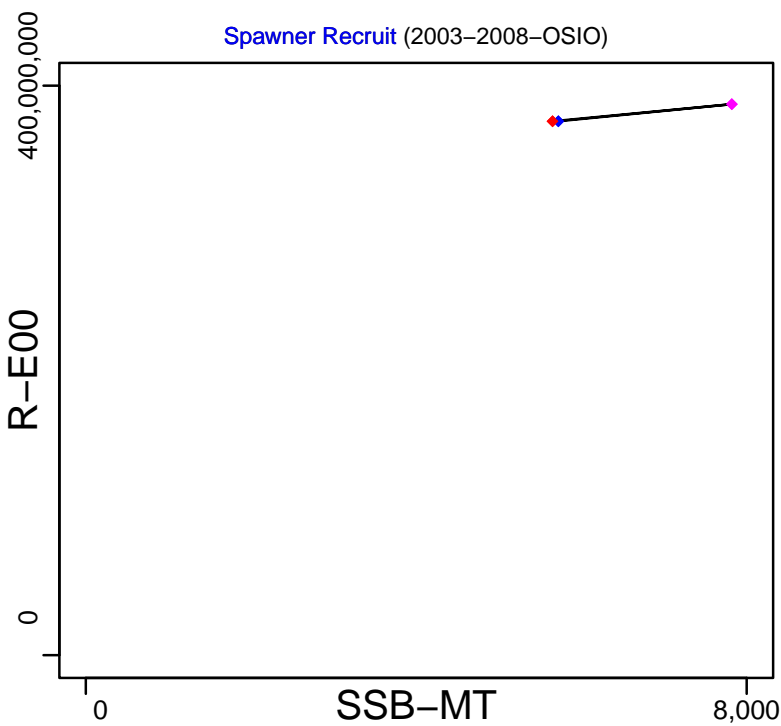
Kobe MSY*



Kobe MGT*



Spawner Recruit (2003–2008–OSIO)



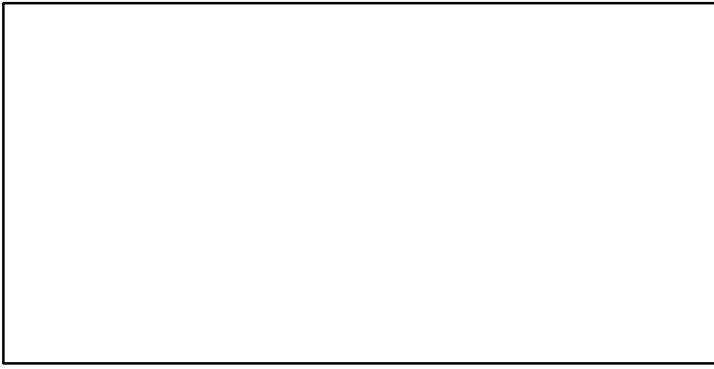
Production*



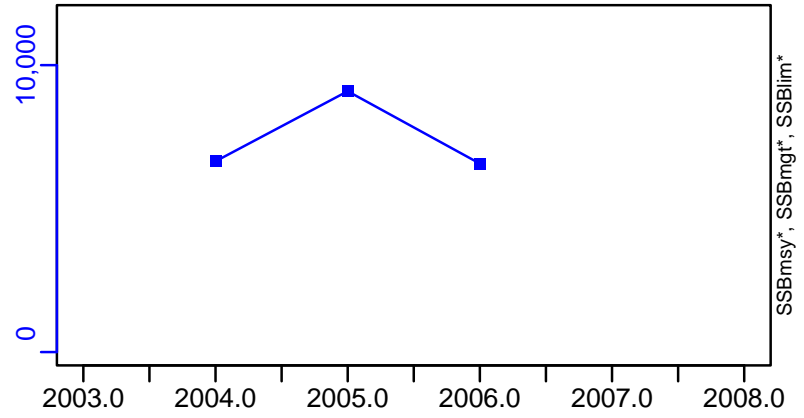
◆ Start Year ◆ End Year * No Data

Hake Aegean Sea and Crete Island (GSA 22,23) [HAKEMEDGSA22-23]

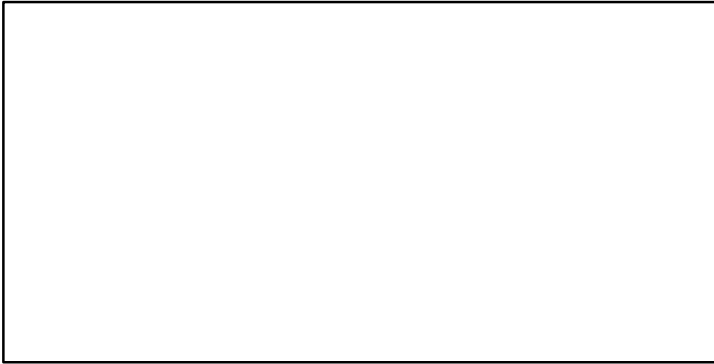
TB*



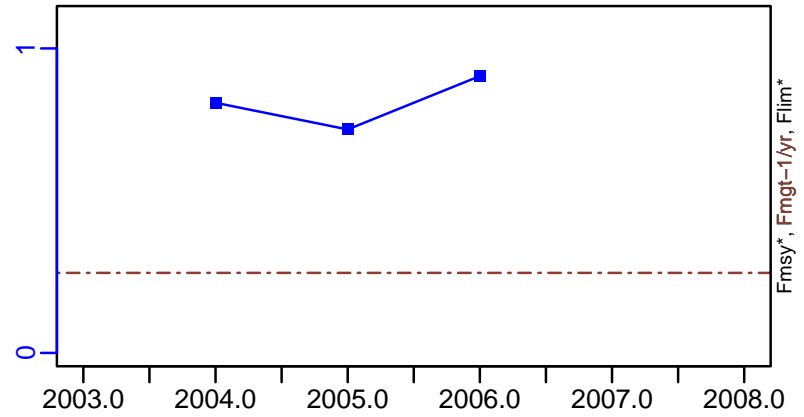
SSB-MT (2003–2008–OSIO)



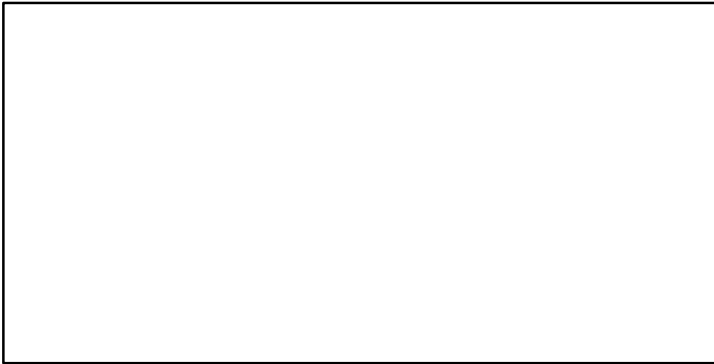
TN *



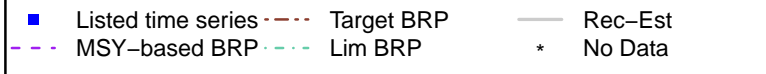
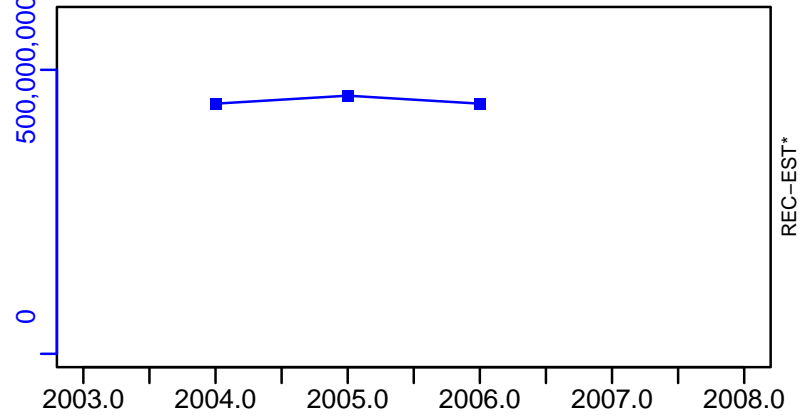
F-1/yr (2003–2008–OSIO)



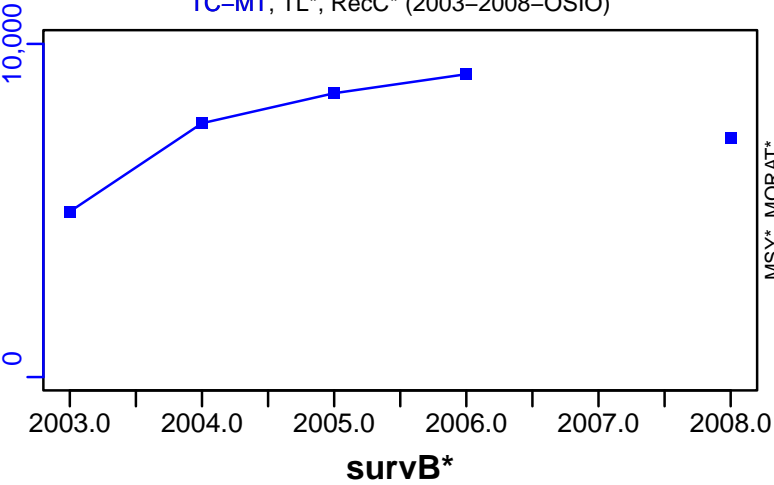
ER*



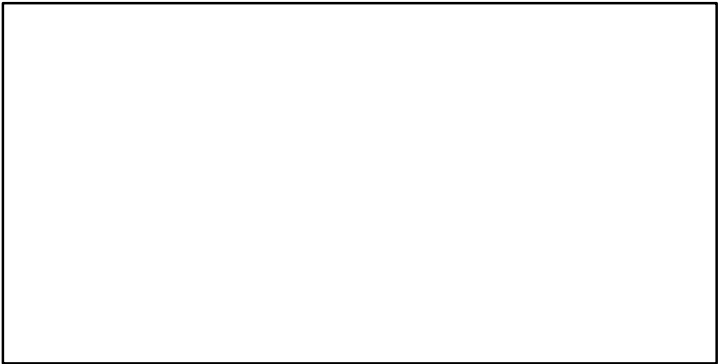
R-E00 (2003–2008–OSIO)



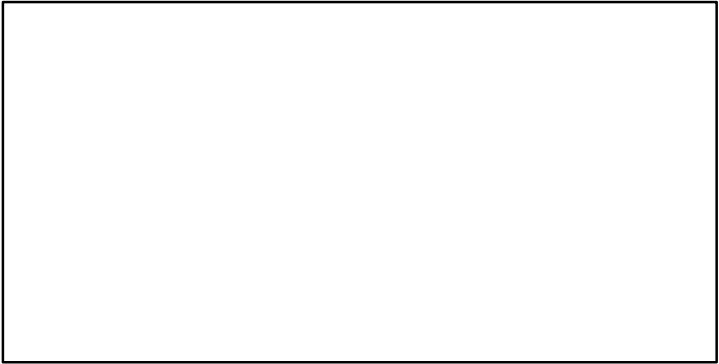
TC-MT, TL*, RecC* (2003-2008-OSIO)



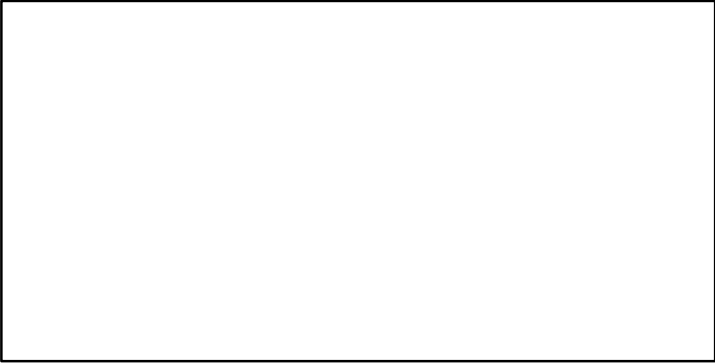
TAC*, Cpair*, Cadv*



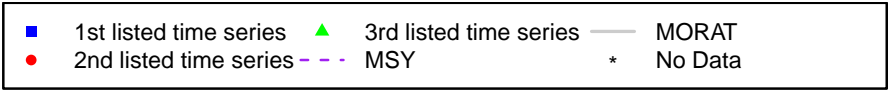
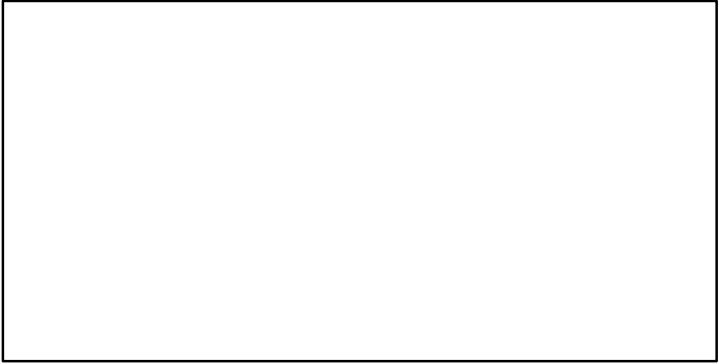
CPUE*



EFFORT*



CdivMSY*



Hake Gulf of Lions [HAKEMEDGSA7]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA7-1998-2012-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	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2012	0.11
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	543	-	-
TN	-	-	-	-	-
R	R-E00	2012	19,700,000	-	-
F	F-1/yr	2012	1.84	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	1110		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	16.727		
ER/ERmgt	-	-	-		

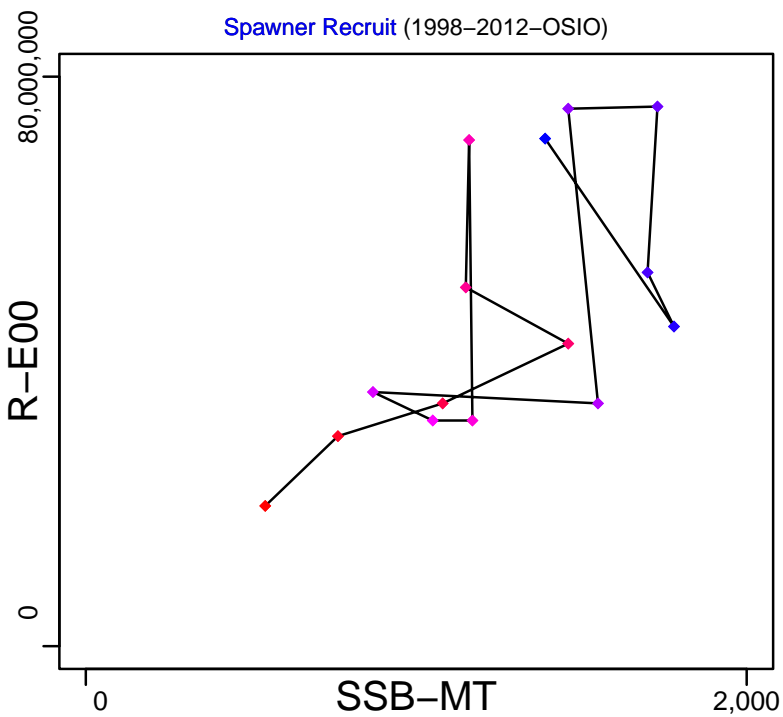
Kobe MSY*



Kobe MGT*

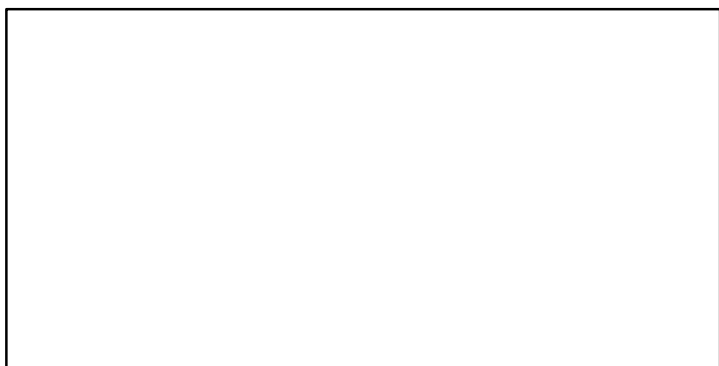


Spawner Recruit (1998–2012–OSIO)

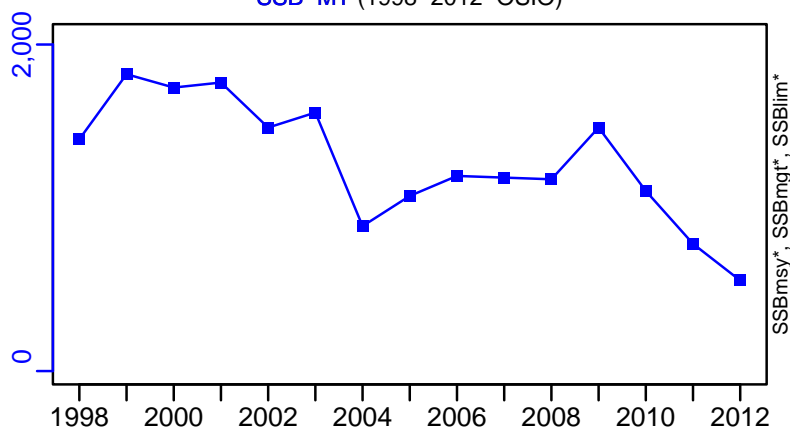


Hake Gulf of Lions [HAKEMEDGSA7]

TB*



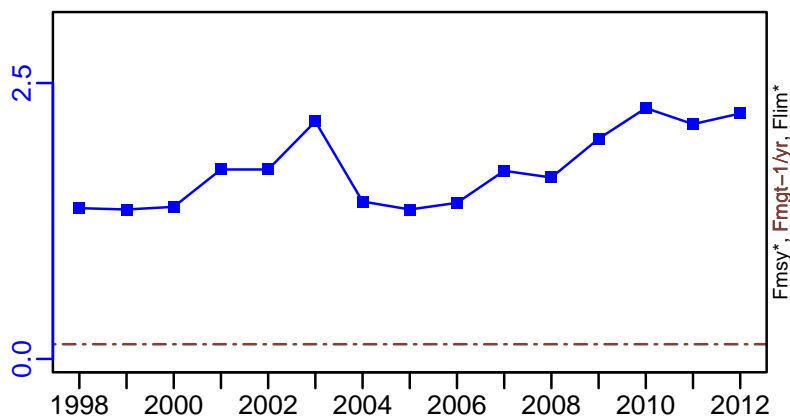
SSB-MT (1998–2012–OSIO)



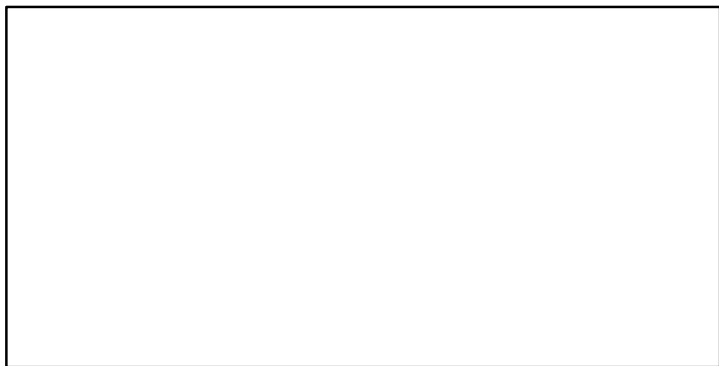
TN *



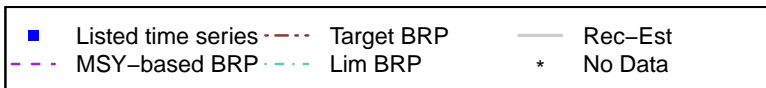
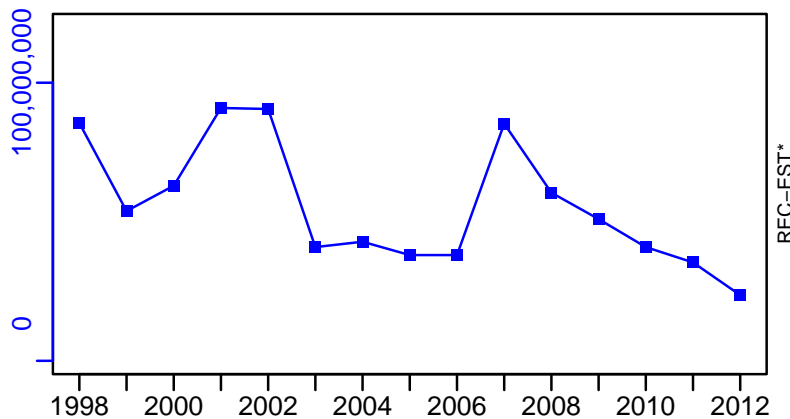
F-1/yr (1998–2012–OSIO)



ER*

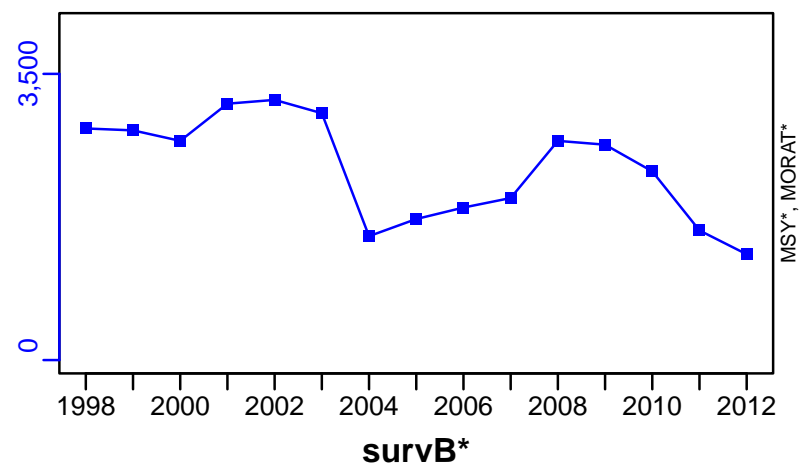


R-E00 (1998–2012–OSIO)

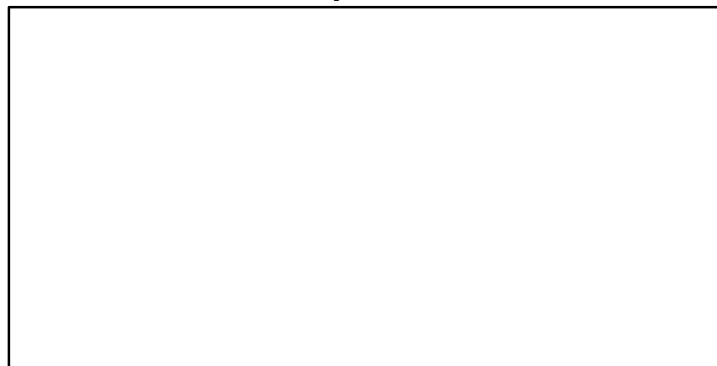


Hake Gulf of Lions [HAKEMEDGSA7]

TL-MT, TC*, RecC* (1998-2012-OSIO)



TAC*, Cpair*, Cadv*



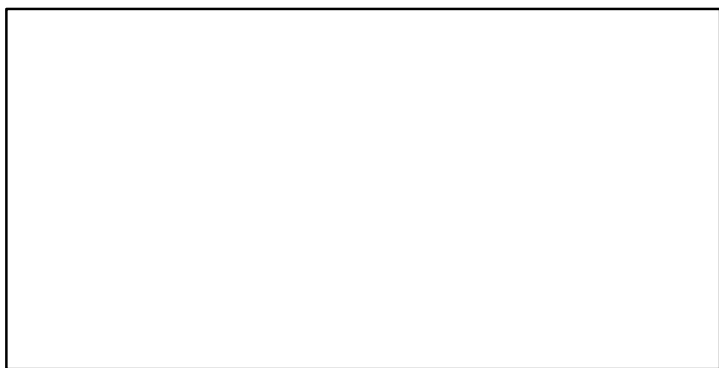
survB*



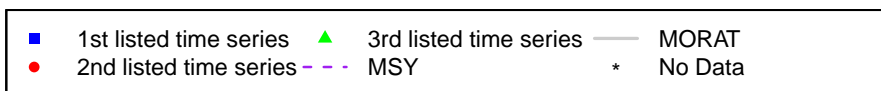
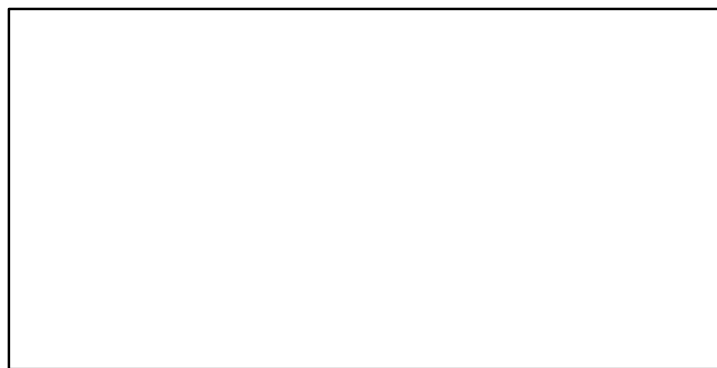
CPUE*



EFFORT*



CdivMSY*



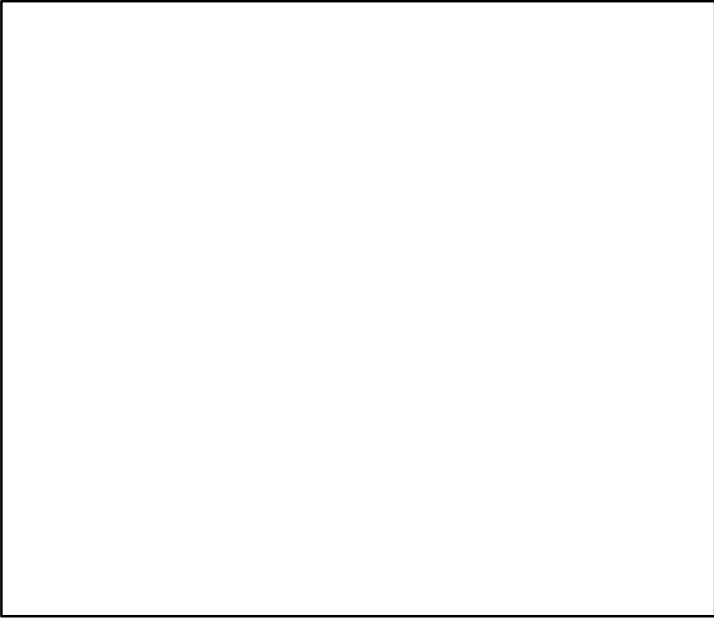
Hake Geographical Sub-Areas 8-11 [HAKEMEDGSA8-11]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	STECF-HAKEMEDGSA8-11-2005-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 8-11
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019

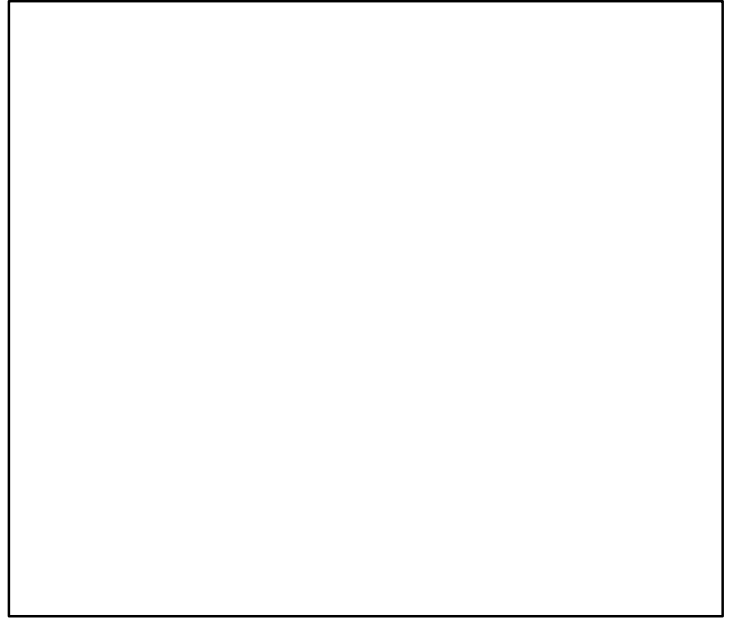
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.167
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	4509	-	-
TN	-	-	-	-	-
R	R-E00	2019	298,907,974	-	-
F	F-1/yr	2019	0.567	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	2075		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	3.391		
ER/ERmgt	-	-	-		

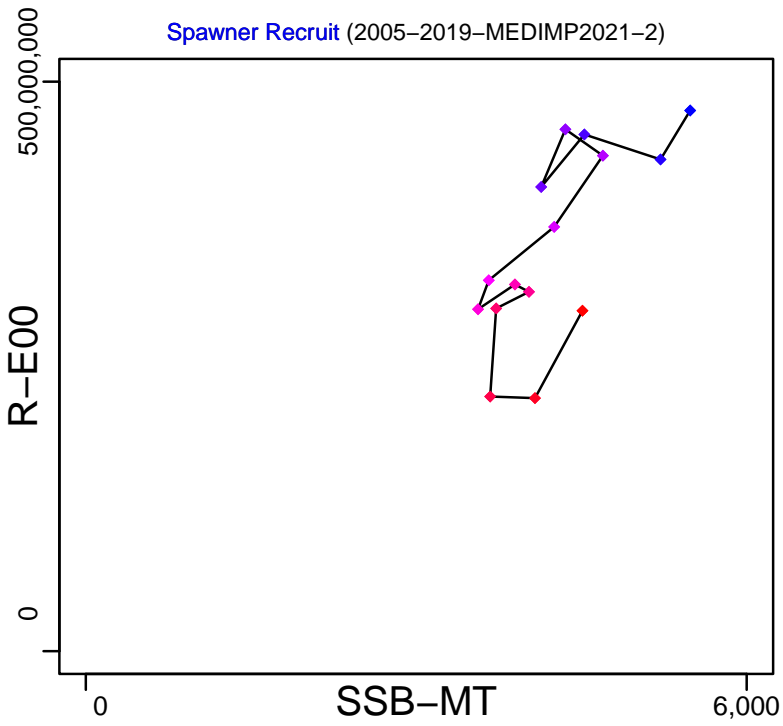
Kobe MSY*



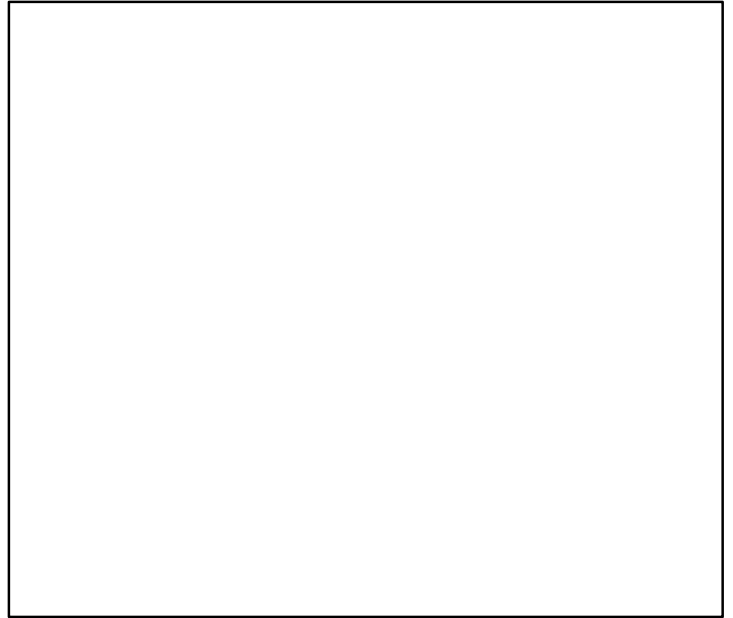
Kobe MGT*



Spawner Recruit (2005–2019–MEDIMP2021–2)



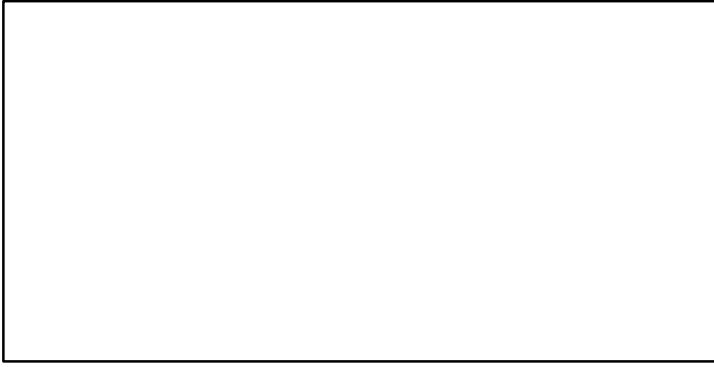
Production*



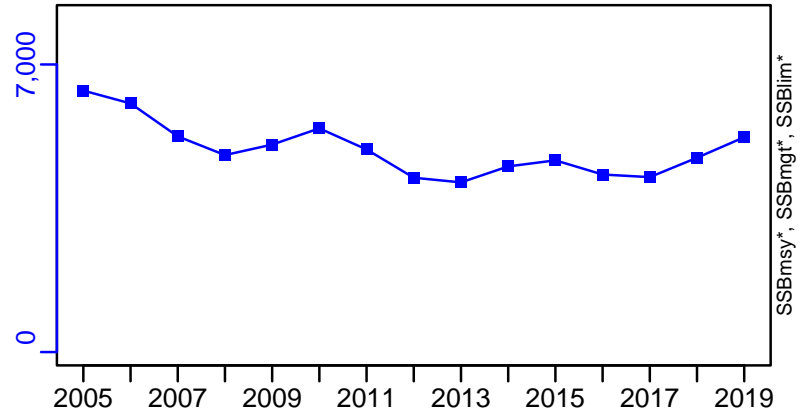
◆ Start Year ◆ End Year * No Data

Hake Geographical Sub-Areas 8–11 [HAKEMEDGSA8–11]

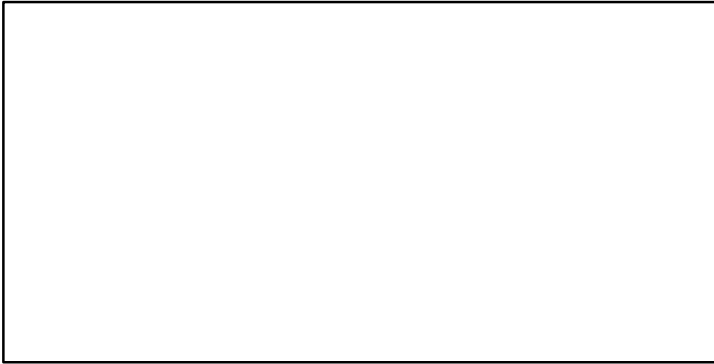
TB*



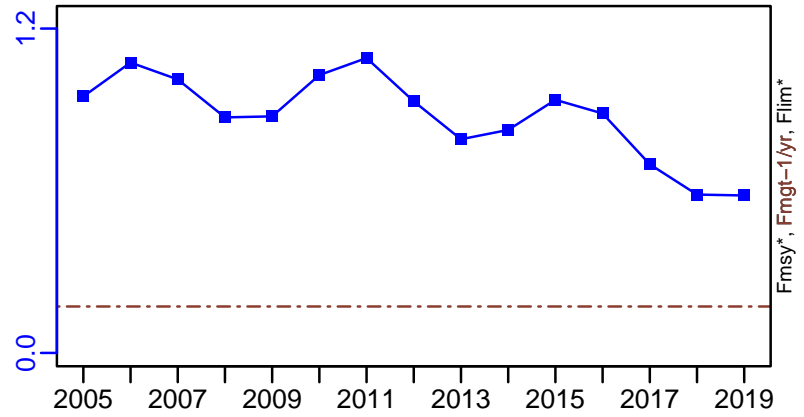
SSB-MT (2005–2019–MEDIMP2021–2)



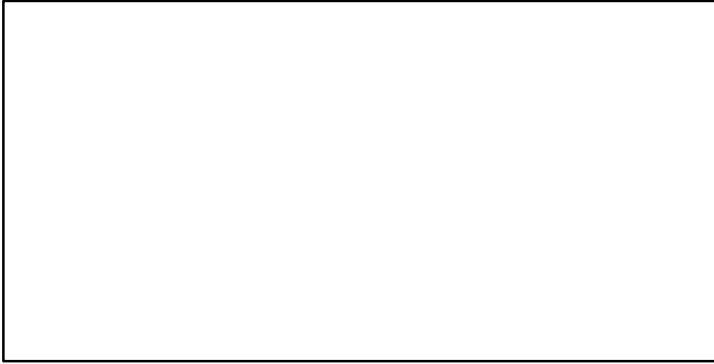
TN *



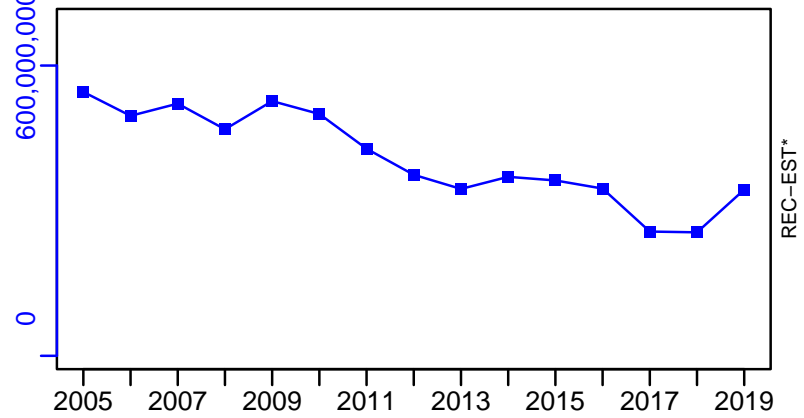
F-1/yr (2005–2019–MEDIMP2021–2)



ER*



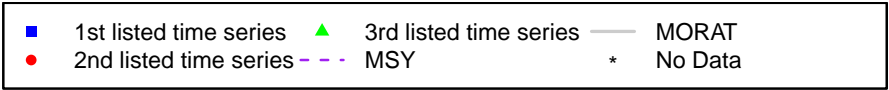
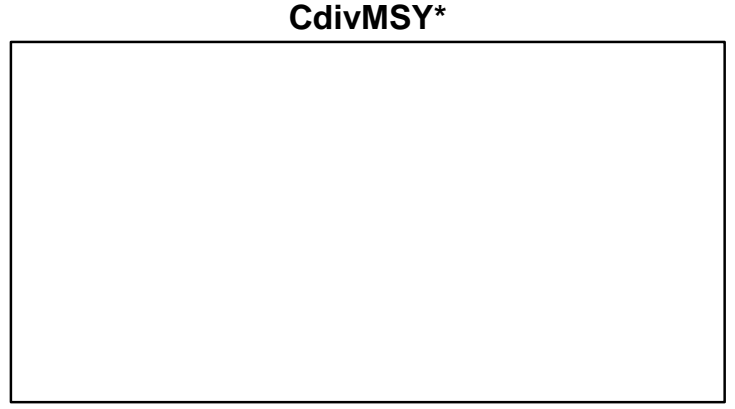
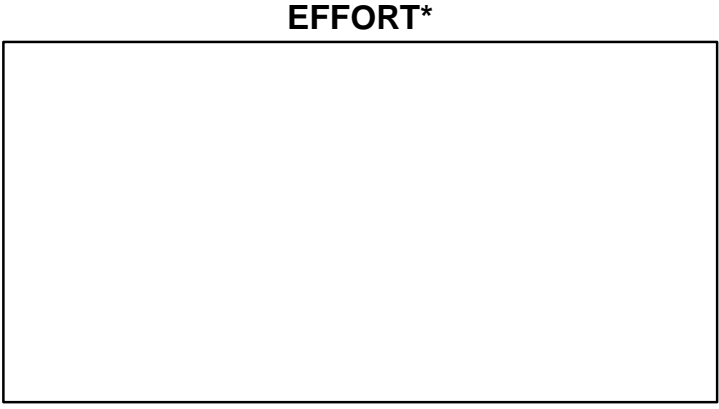
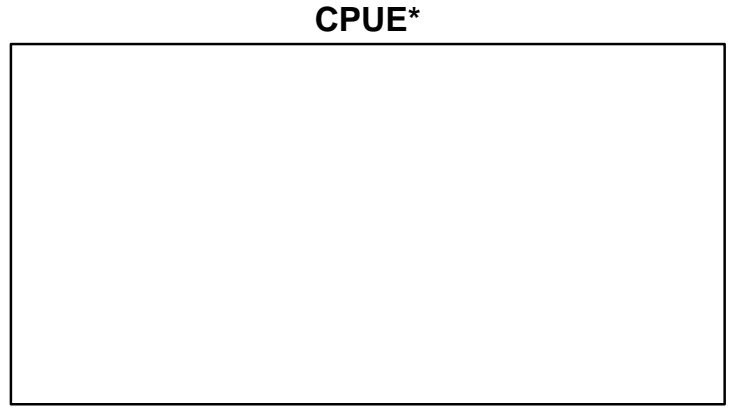
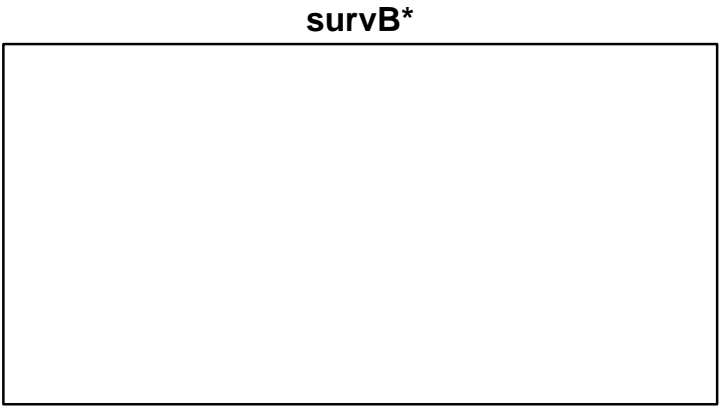
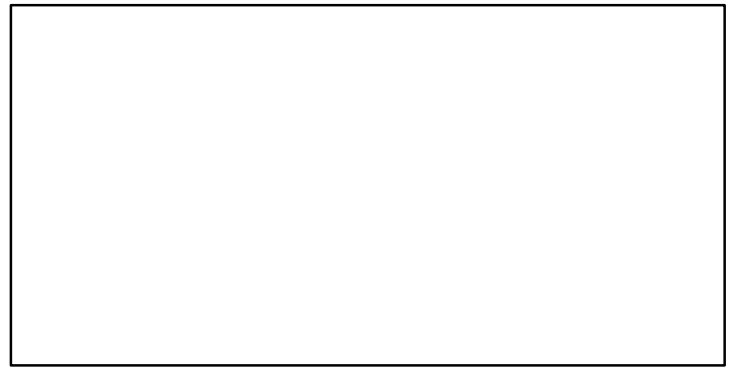
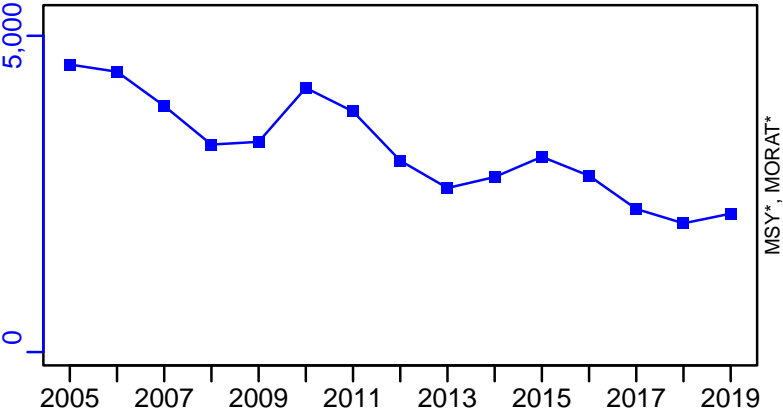
R-E00 (2005–2019–MEDIMP2021–2)



Hake Geographical Sub-Areas 8–11 [HAKEMEDGSA8–11]

TC–MT, TL*, RecC* (2005–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*

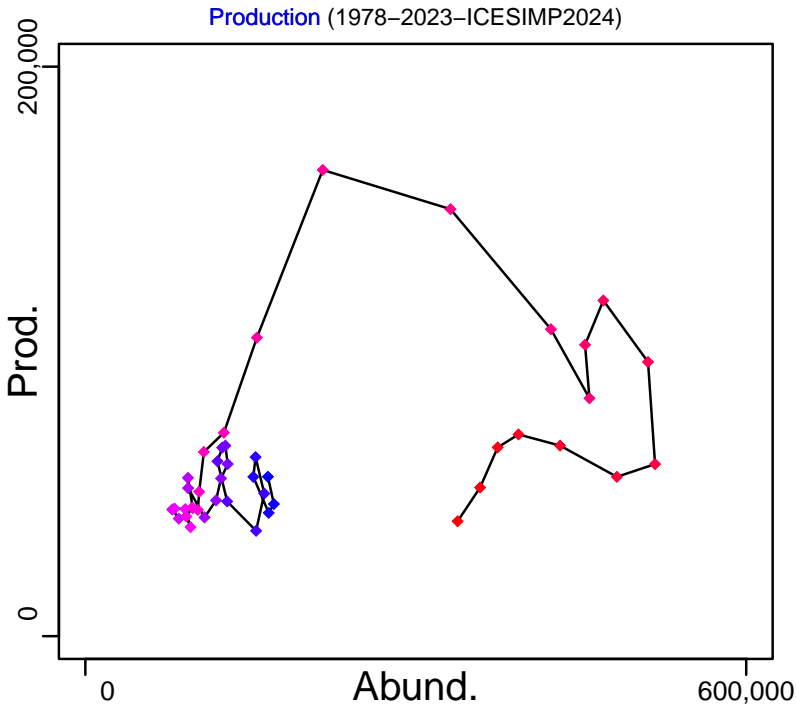
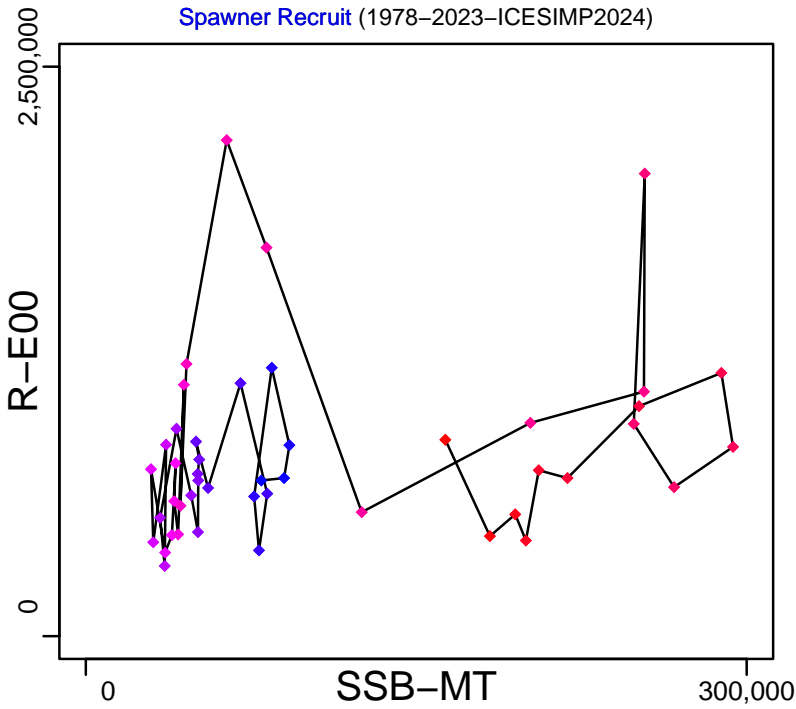
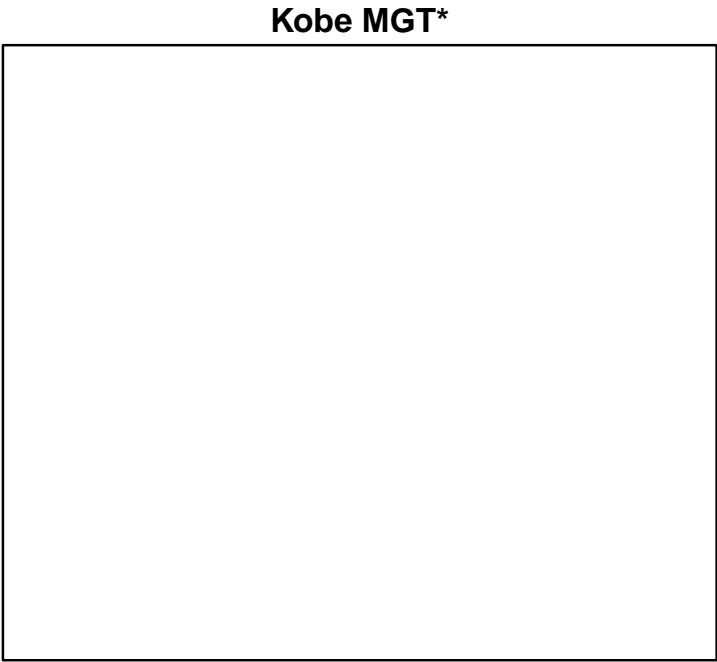
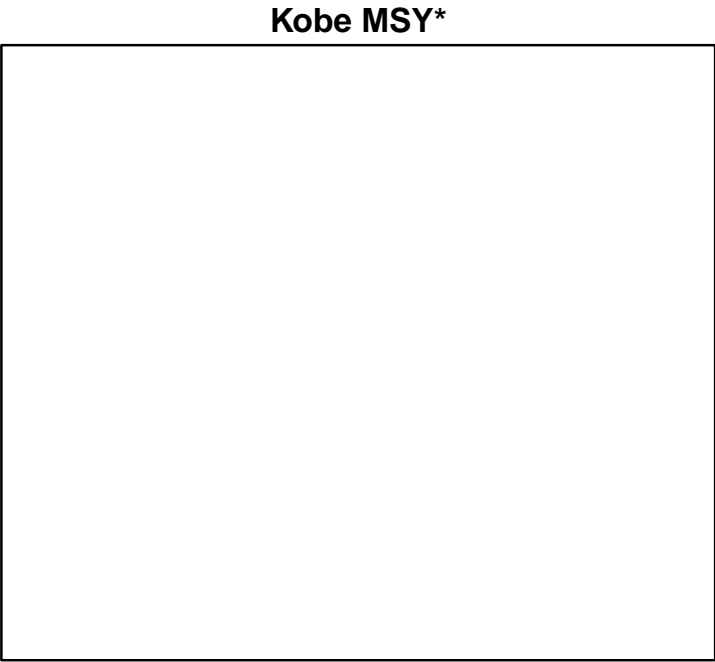


Hake ICES 3a-4-6-7-8abd [HAKENRTN]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKENRTN-1978-2023-ICESIMP2024
Area	ICES 3a-4-6-7-8abd
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	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	61,563
Flim	Flim-1/yr	2023	0.73
ERlim	-	-	-

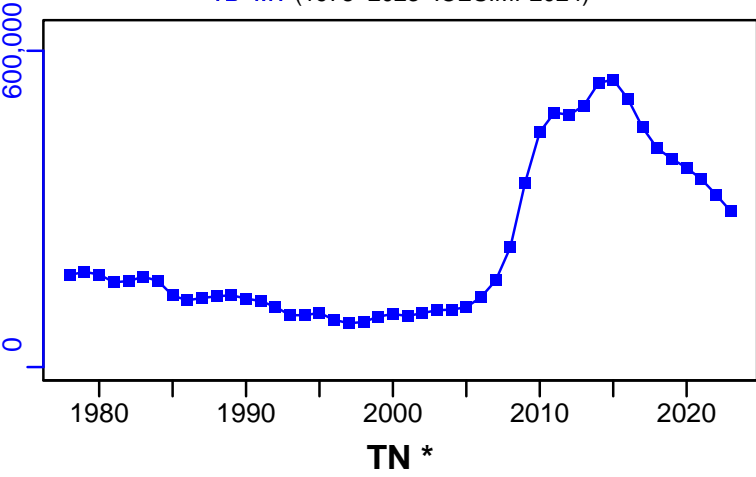
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	280,323	-	-
SSB	SSB-MT	2023	163,204	-	-
TN	-	-	-	-	-
R	R-E00	2023	862,134	-	0
F	F-1/yr	2023	0.191	-	1 to 7
ER	ER-calc-ratio	2023	0.217	-	-
TC	TC-MT	2021	75,800		
TL	TL-MT	2023	67,433		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.797		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.797		
ER/ERmgt	-	-	-		



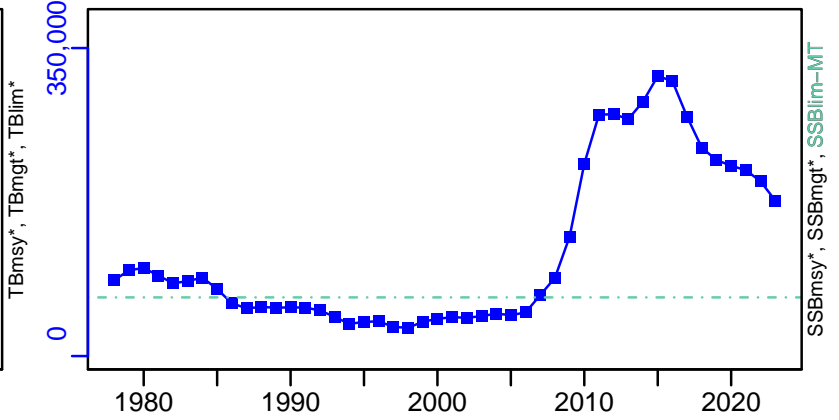
◆ Start Year ◆ End Year * No Data

Hake ICES 3a-4-6-7-8abd [HAKENRTN]

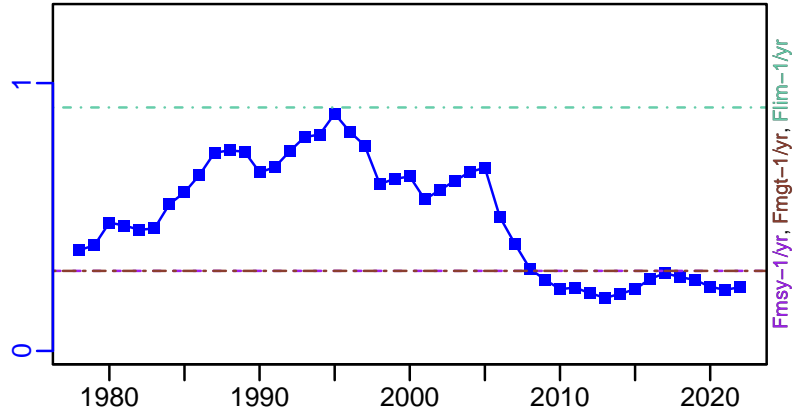
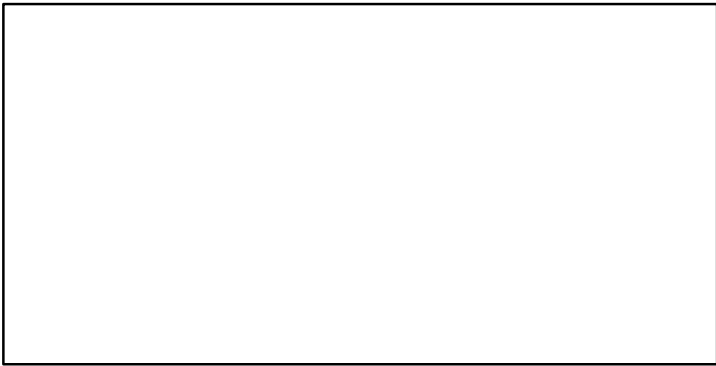
TB-MT (1978-2023-ICESIMP2024)



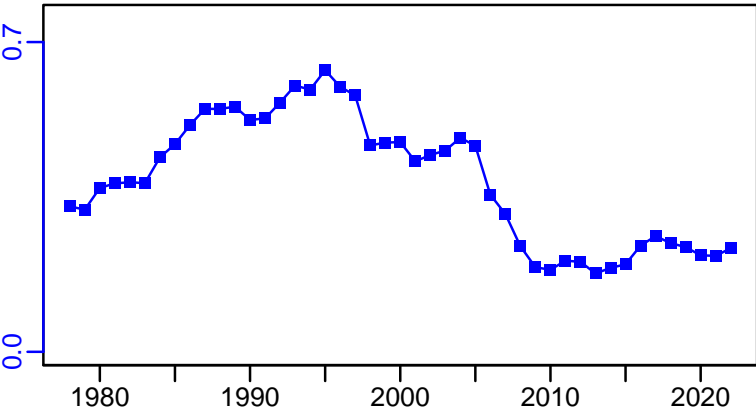
SSB-MT (1978-2023-ICESIMP2024)



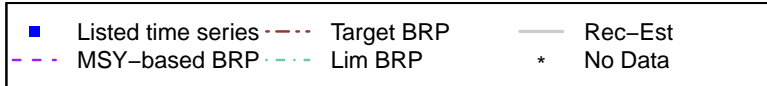
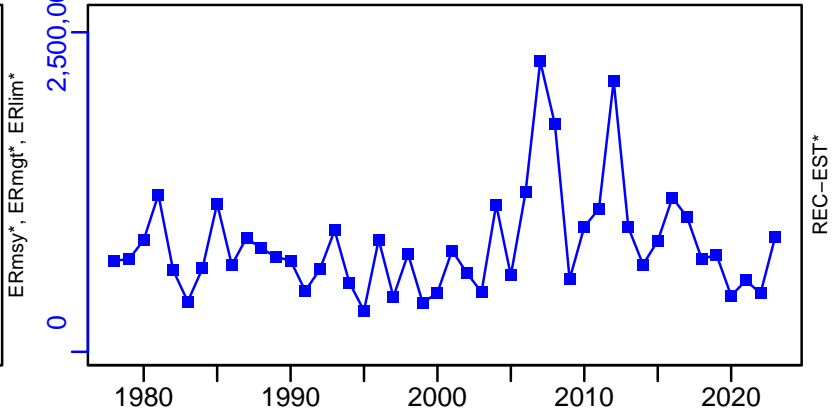
F-1/yr (1978-2023-ICESIMP2024)



ER-calc-ratio (1978-2023-ICESIMP2024)

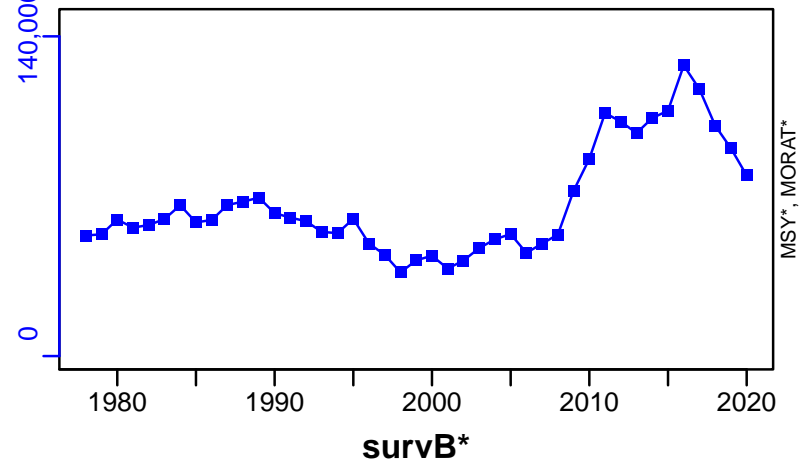


R-E00 (1978-2023-ICESIMP2024)

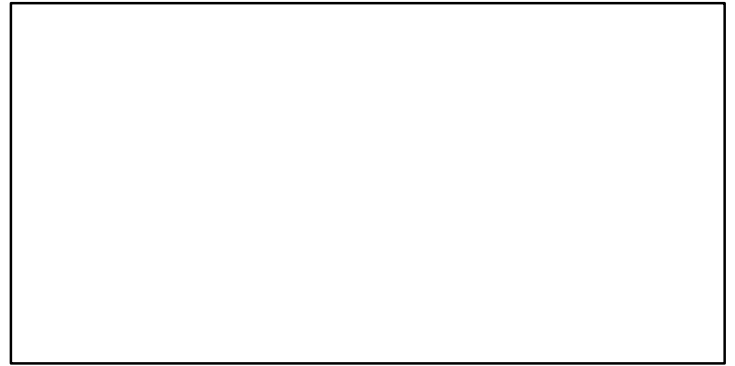


Hake ICES 3a-4-6-7-8abd [HAKENRTN]

TC-MT, TL*, RecC* (1978-2021-ICESIMP2021-2)



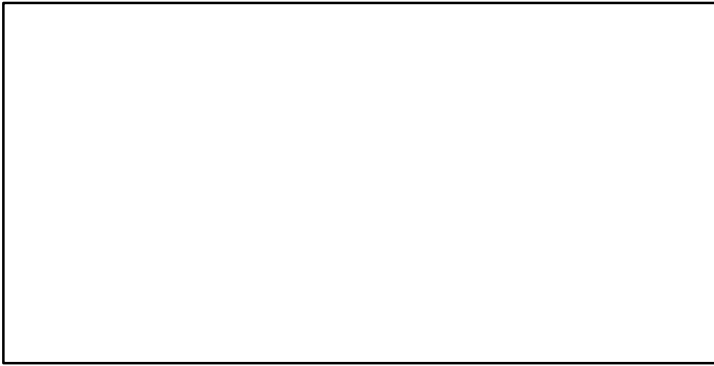
TAC*, Cpair*, Cadv*



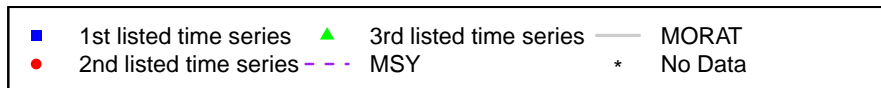
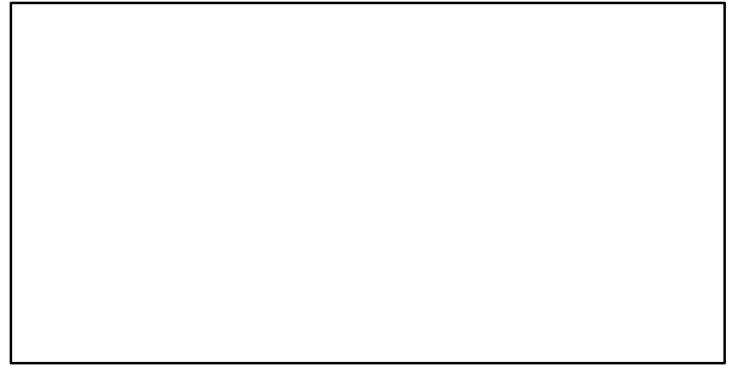
CPUE*



EFFORT*



CdivMSY*



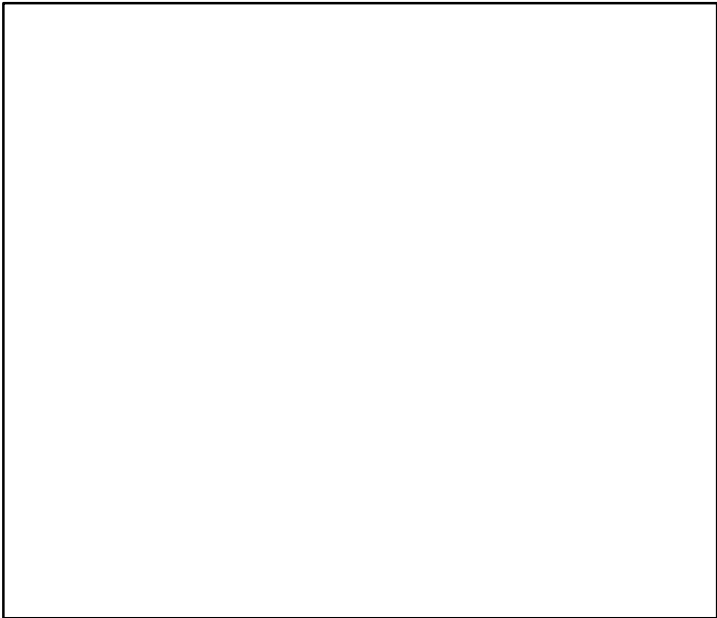
Hake North West Africa Morocco [HAKENWAMAR]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	FAO-DR-HAKENWAMAR-1980-2016-ASHBROOK
Area	North West Africa Morocco
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
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	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5381		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

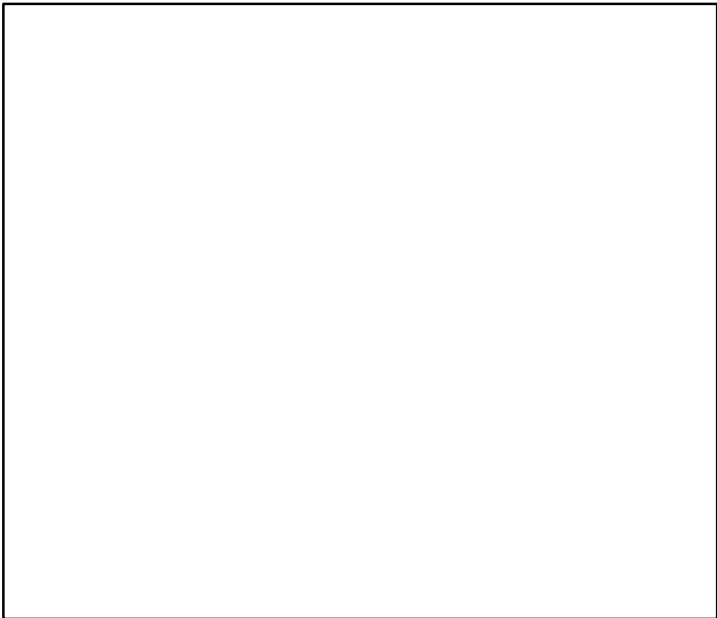
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

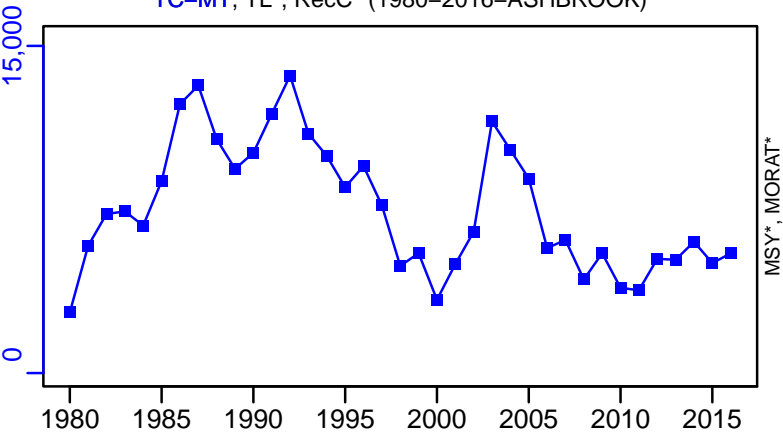


Recruits*



Hake North West Africa Morocco [HAKENWAMAR]

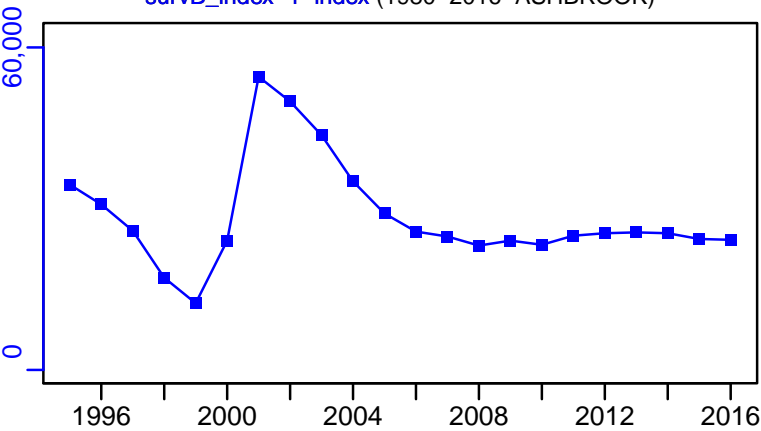
TC-MT, TL*, RecC* (1980-2016-ASHBROOK)



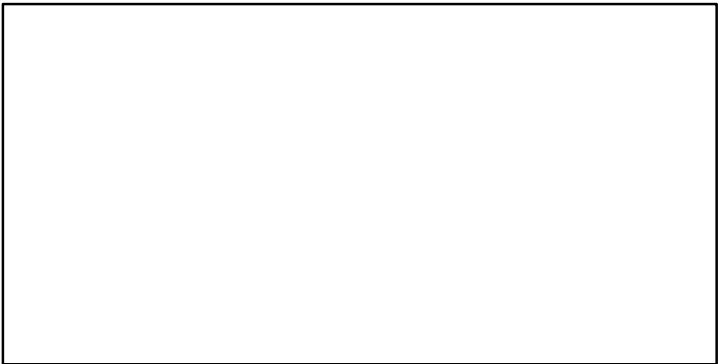
TAC*, Cpair*, Cadv*



survB_index-1-index (1980-2016-ASHBROOK)



CPUE*



CdivMSY*



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

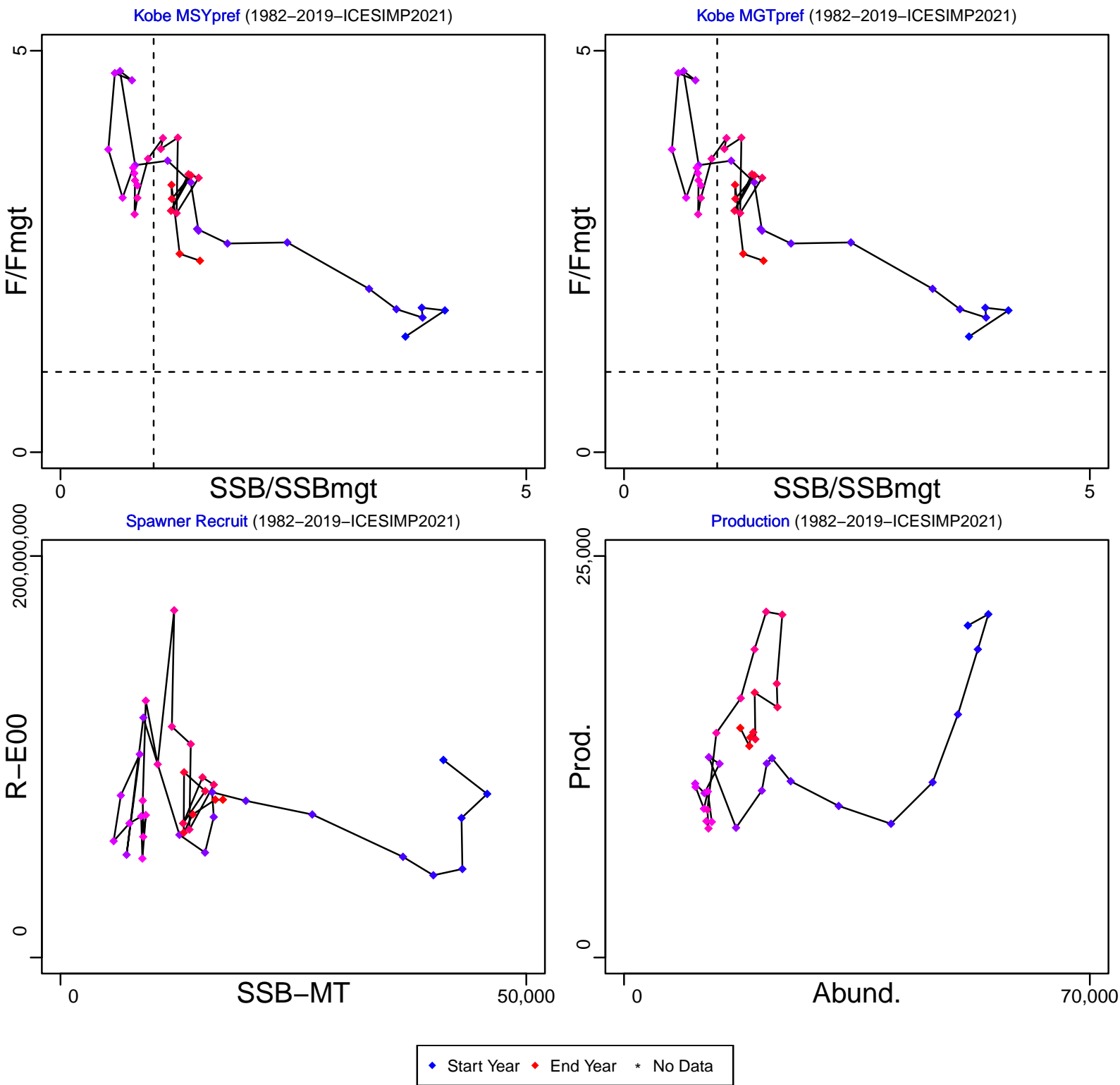
Hake ICES 8c-9a [HAKESOTH]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKESOTH-1989-2020-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, 2019, 2020, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.25
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	11,100
Fmgt	Fmgt-1/yr	2019	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	8000
Flim	Flim-1/yr	2018	1.05
ERlim	-	-	-

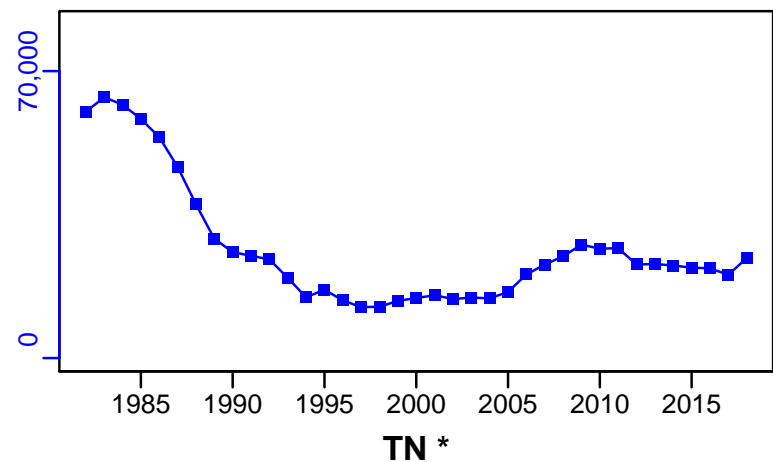
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	20,988	-	-
SSB	SSB-MT	2019	17,430	-	-
TN	-	-	-	-	-
R	R-E00	2019	78,619,505	-	0
F	F-1/yr	2019	0.596	-	1 to 3
ER	ER-calc-ratio	2019	0.575	-	-
TC	TC-MT	2020	9170		
TL	TL-MT	2020	8730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.76		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.57		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.384		
ER/ERmgt	-	-	-		

Hake ICES 8c–9a [HAKESOTH]

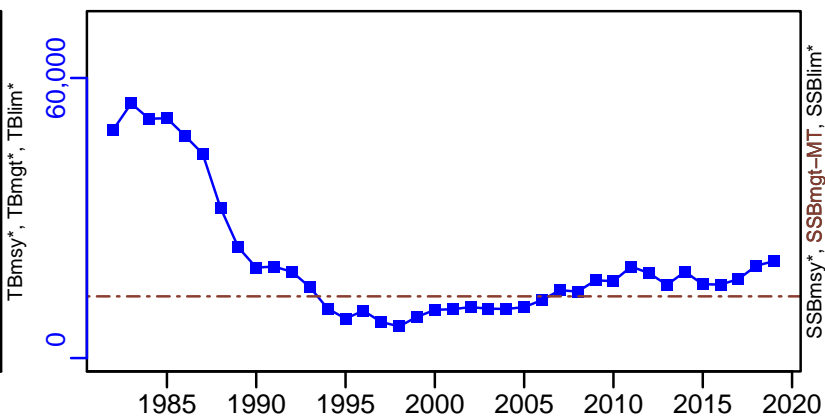


Hake ICES 8c–9a [HAKESOTH]

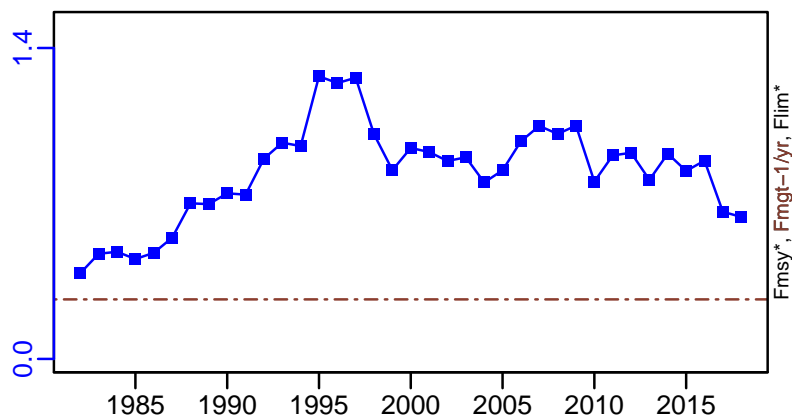
TB–MT (1982–2019–ICESIMP2021)



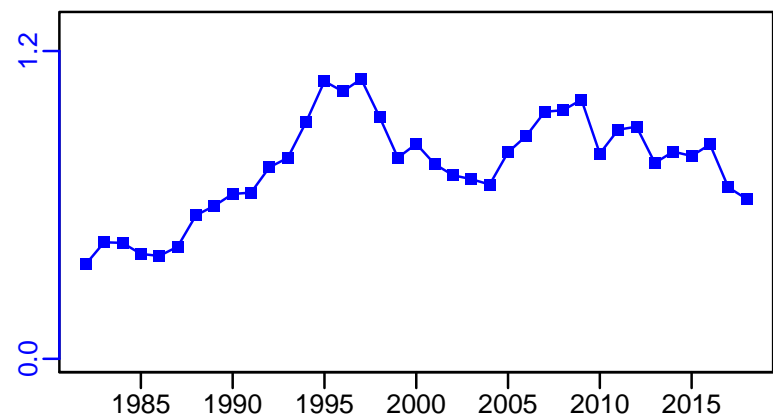
SSB–MT (1982–2019–ICESIMP2021)



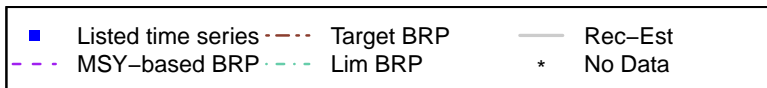
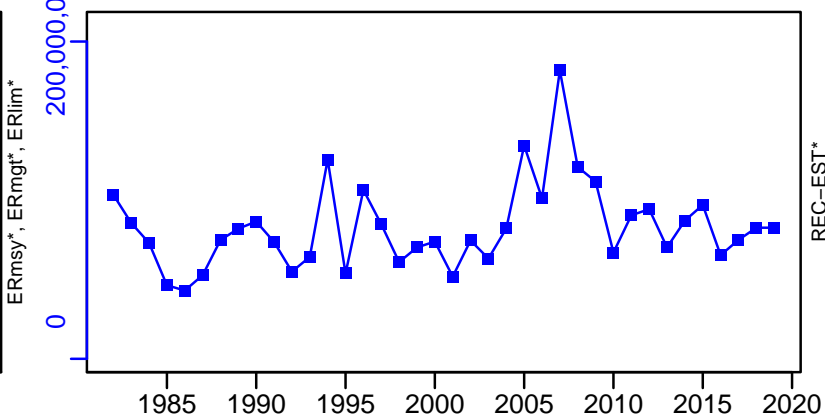
F–1/yr (1982–2019–ICESIMP2021)



ER–calc–ratio (1982–2019–ICESIMP2021)

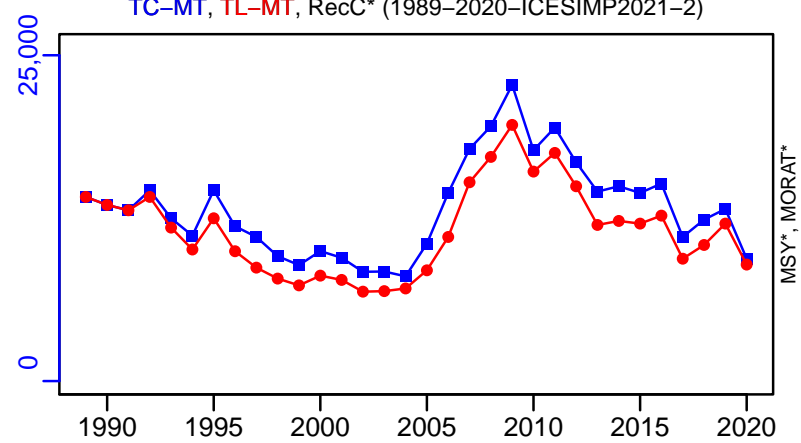


R–E00 (1982–2019–ICESIMP2021)

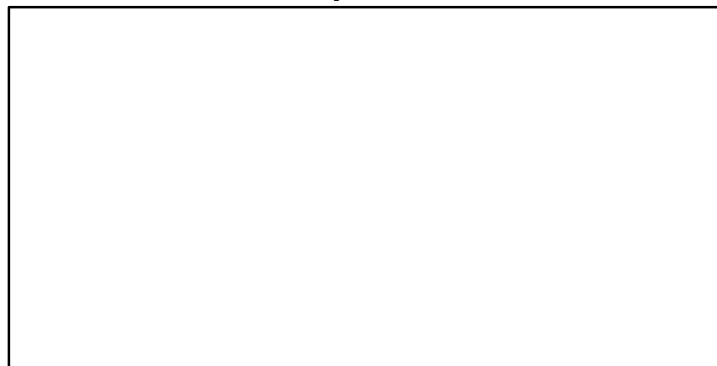


Hake ICES 8c-9a [HAKESOTH]

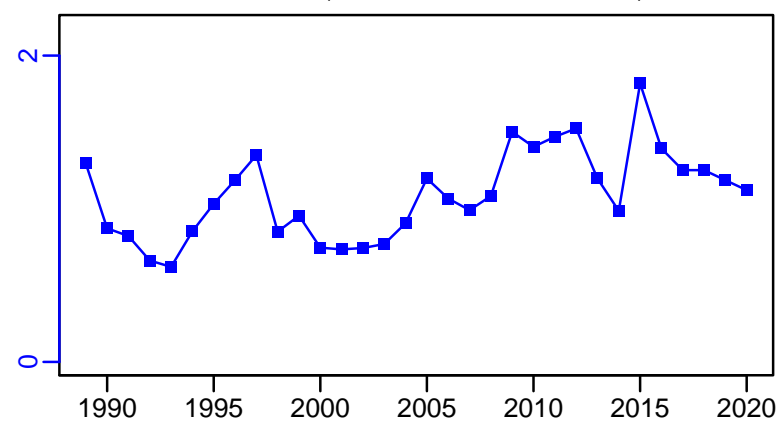
TC-MT, TL-MT, RecC* (1989-2020-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



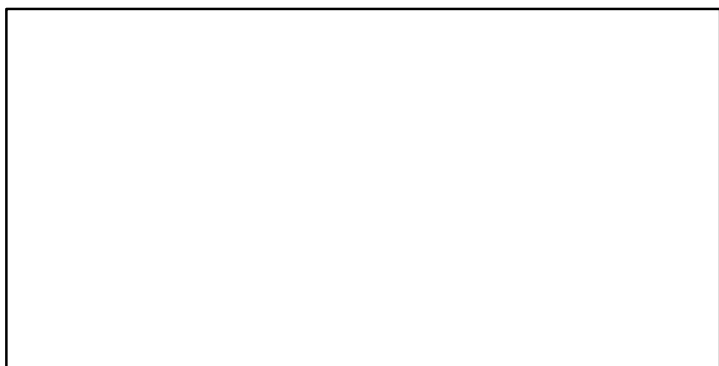
survB-index (1989-2020-ICESIMP2021-2)



CPUE*



EFFORT*



CdivMSY*



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

Hake spp North West Africa [HAKESPPNWA]

Metadata	
Scientific Name	Merluccius spp
Current Assess ID	FAO-DR-HAKESPPNWA-1983-2016-ASHBROOK
Area	North West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

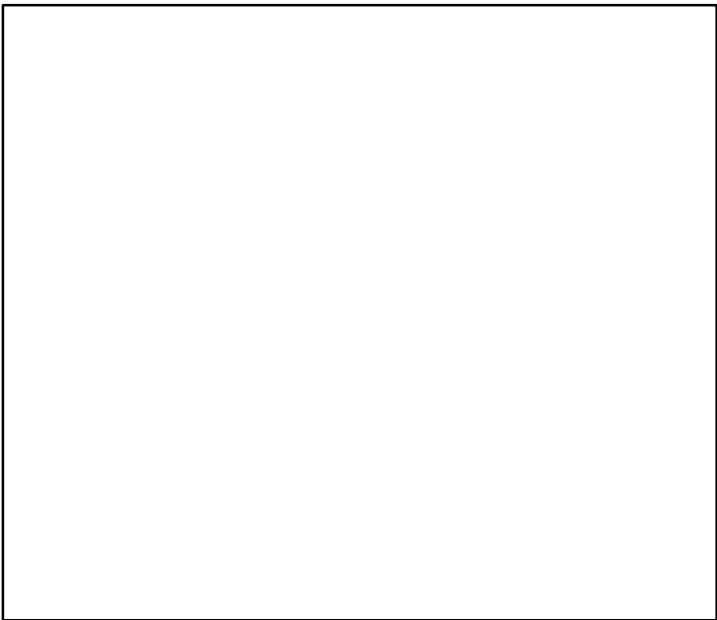
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	16,972		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

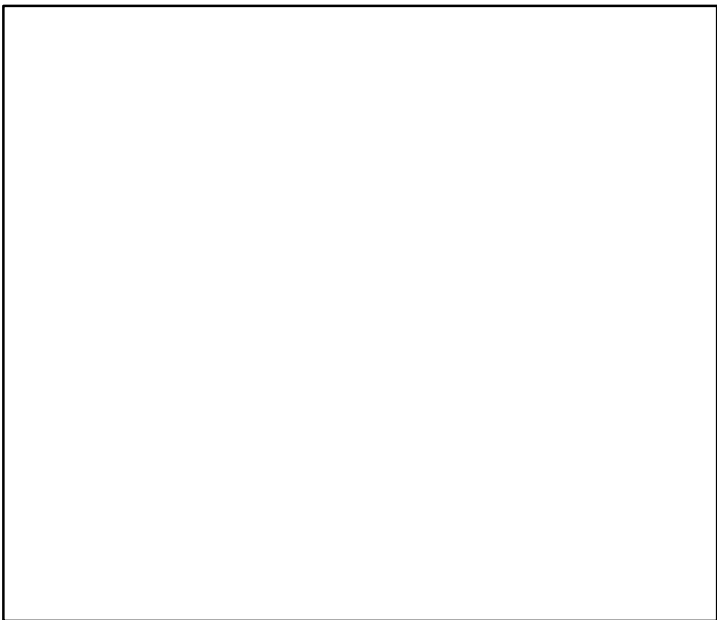
Kobe MSY*



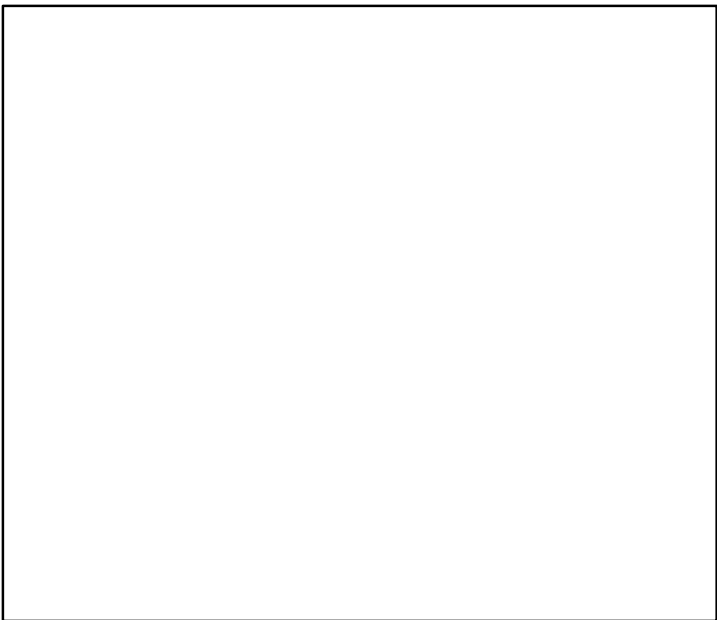
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

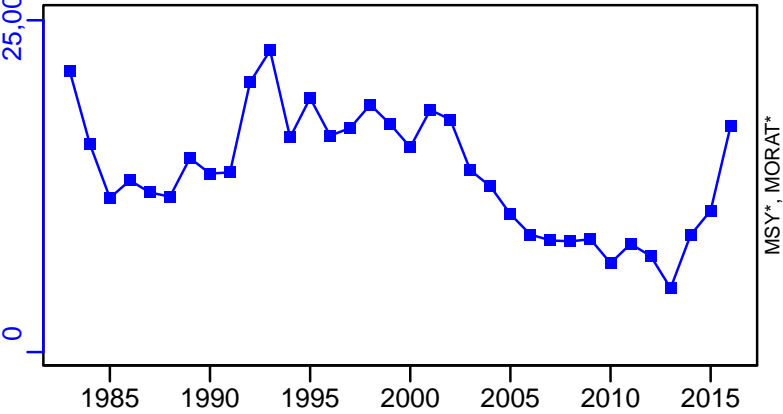


Recruits*



Hake spp North West Africa [HAKESPPNWA]

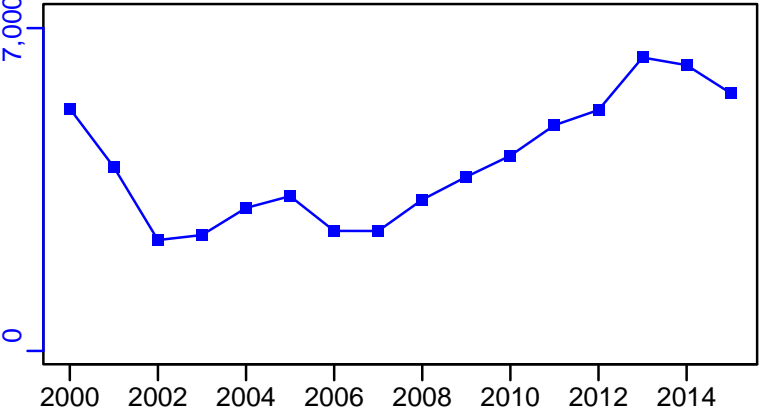
TC-MT, TL*, RecC* (1983-2016-ASHBROOK)



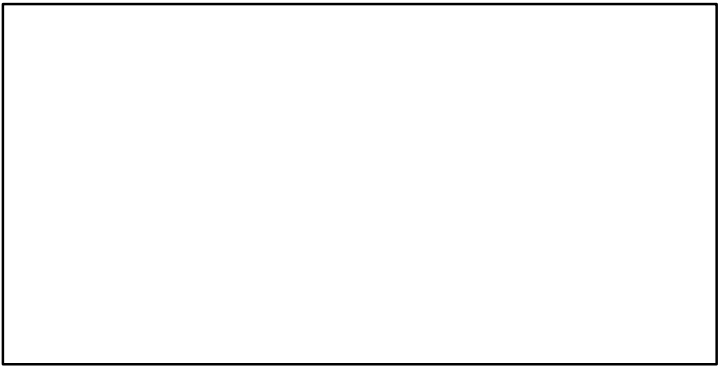
TAC*, Cpair*, Cadv*



survB_index-1-index (1983-2016-ASHBROOK)



CPUE*



CdivMSY*



Hake spp Southern Africa [HAKESPPSAF]

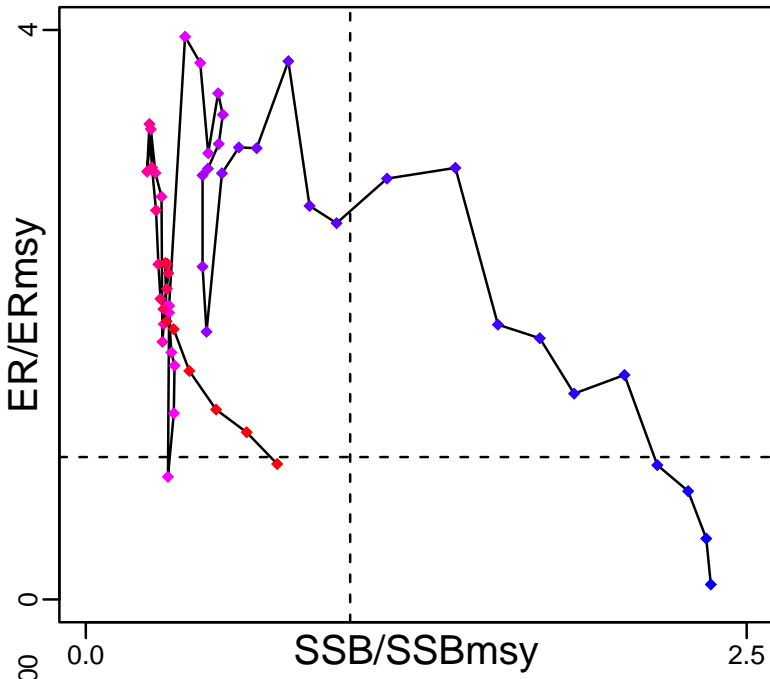
Metadata	
Scientific Name	Merluccius spp
Current Assess ID	NatMIRC-HAKESPPSAF-1964-2019-ASHBROOK
Area	Southern Africa
Management Authority	Ministry of Fisheries and Marine Resources
Assessor	National Marine Information and Research Centre
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2019	4,611,710
SSBmsy	SSBmsy-MT	2019	2,603,270
Fmsy	-	-	-
ERmsy	ERmsy-calc-ratio	2019	0.066
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	303,687
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

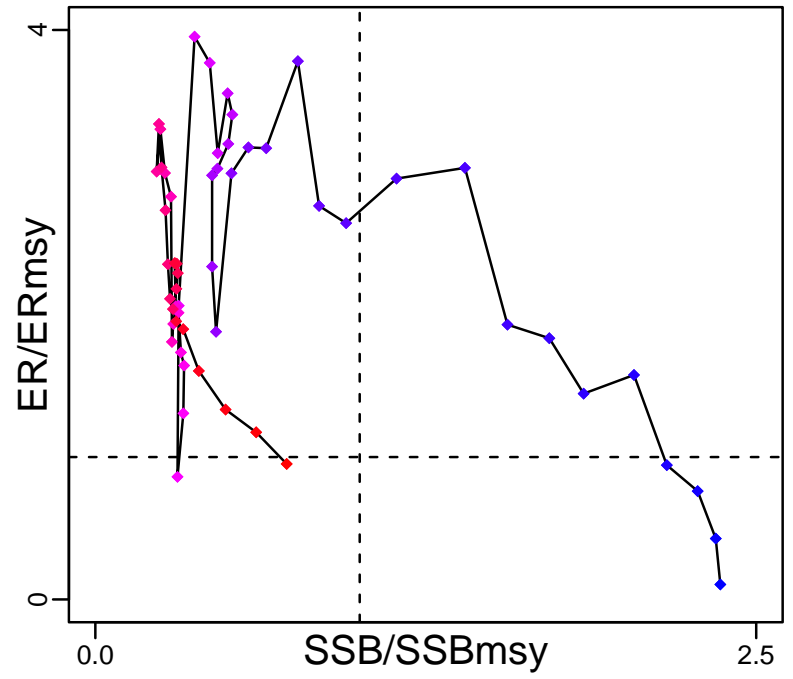
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2,426,180	-	-
SSB	SSB-MT	2019	1,884,330	-	4+
TN	-	-	-	-	-
R	R-E00	2019	35,792,400,000	-	0
F	F-1/yr	2019	0.115	-	-
ER	ER-calc-ratio	2019	0.063	-	-
TC	TC-MT	2019	152,033		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2019	0.526		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.724		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2019	0.952		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Hake spp Southern Africa [HAKESPPSAF]

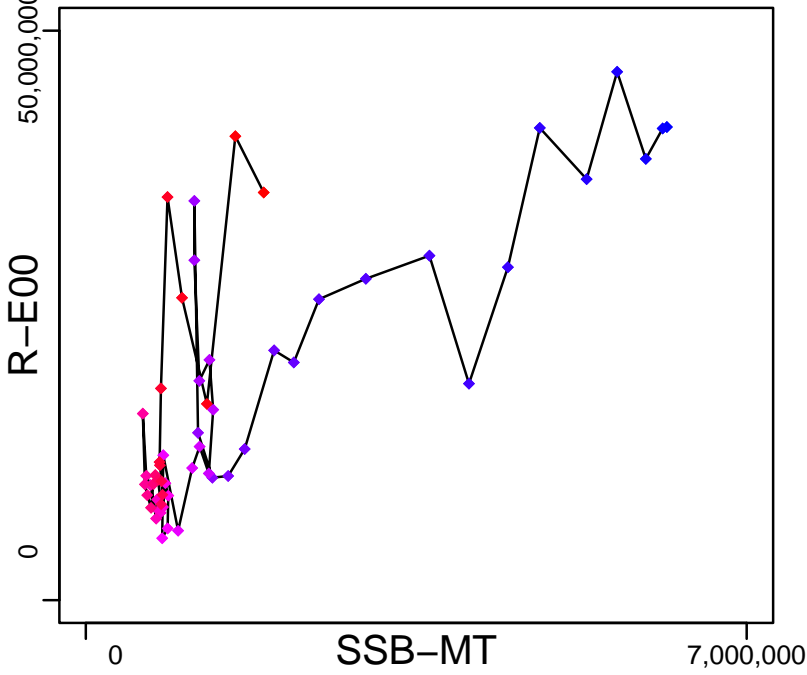
Kobe MSYpref (1964–2019–ASHBROOK)



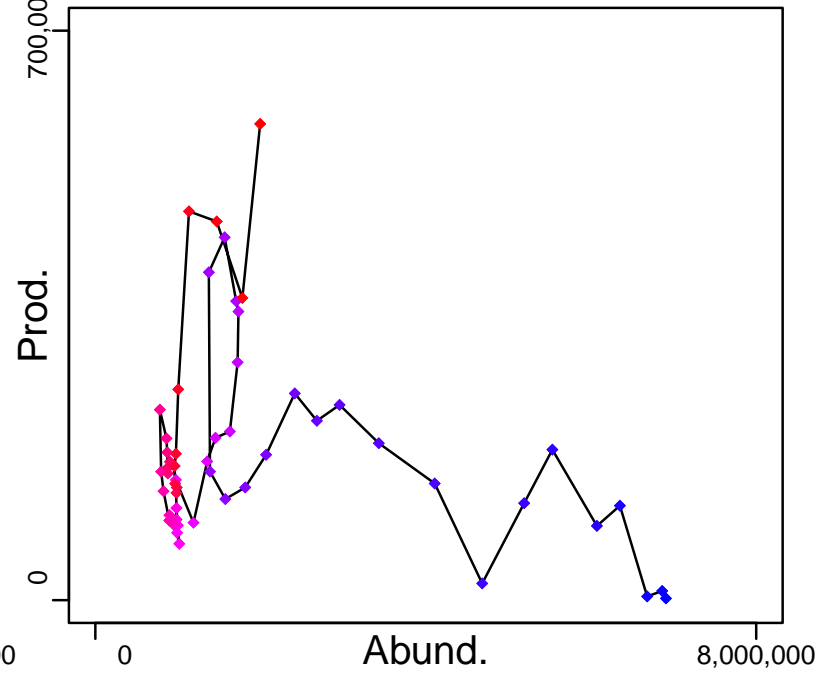
Kobe MGTpref (1964–2019–ASHBROOK)



Spawner Recruit (1964–2019–ASHBROOK)

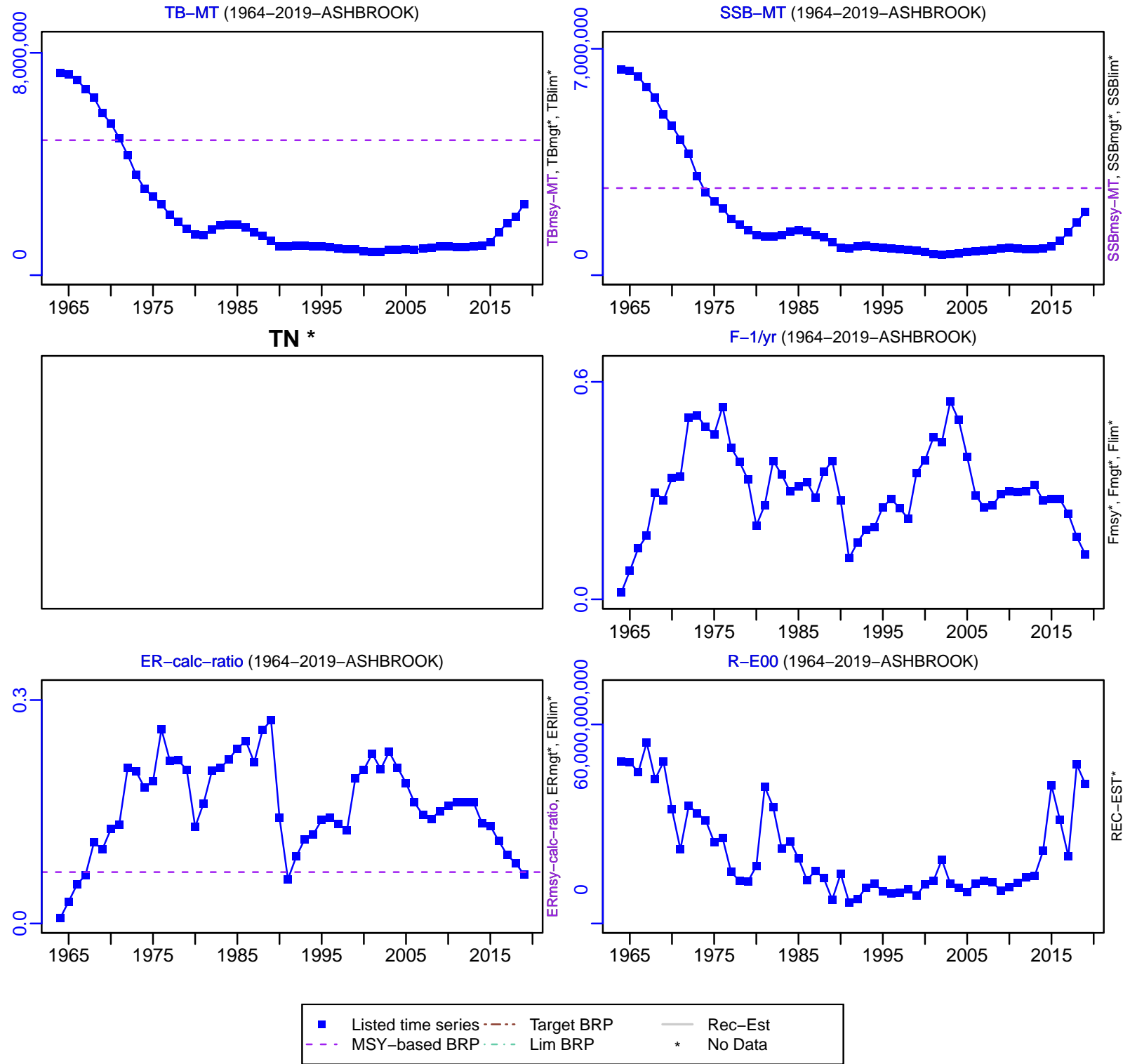


Production (1964–2019–ASHBROOK)



◆ Start Year ◆ End Year * No Data

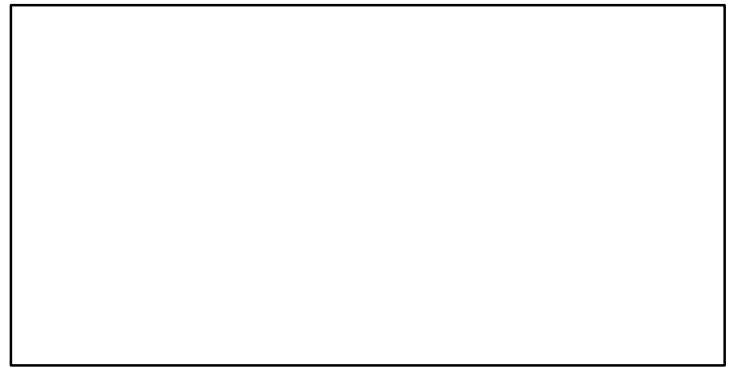
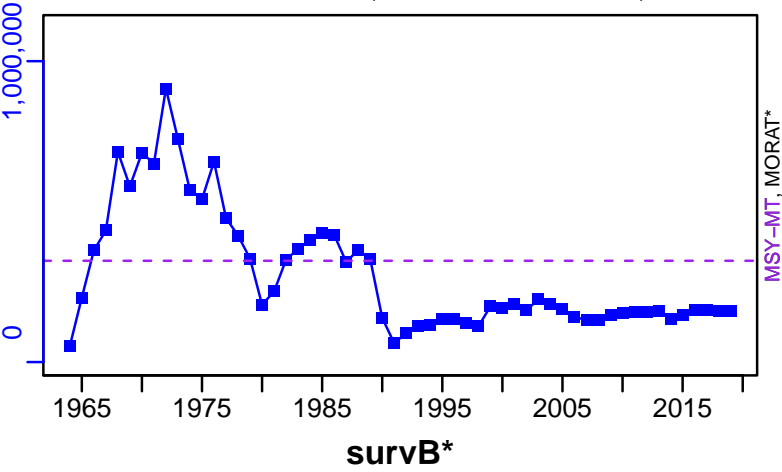
Hake spp Southern Africa [HAKESPPSAF]



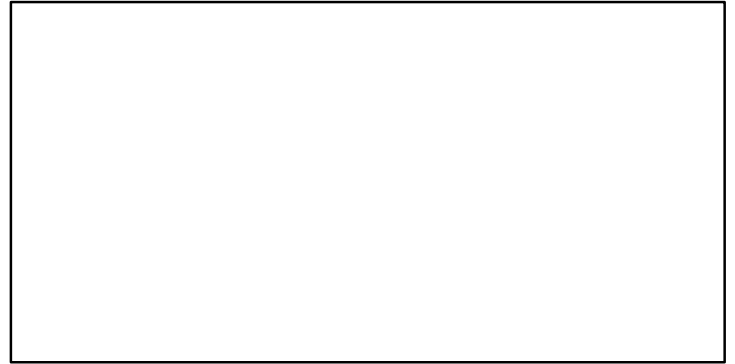
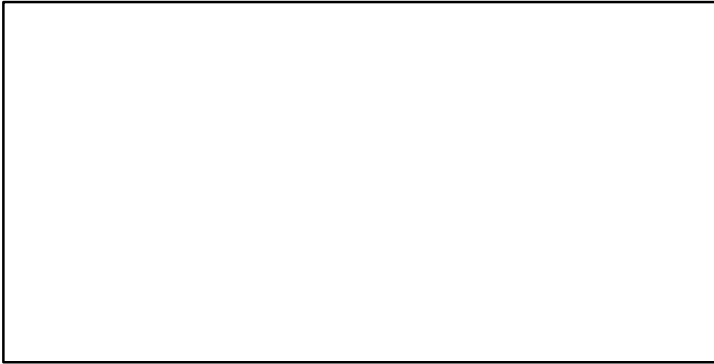
Hake spp Southern Africa [HAKESPPSAF]

TC-MT, TL*, RecC* (1964–2019–ASHBROOK)

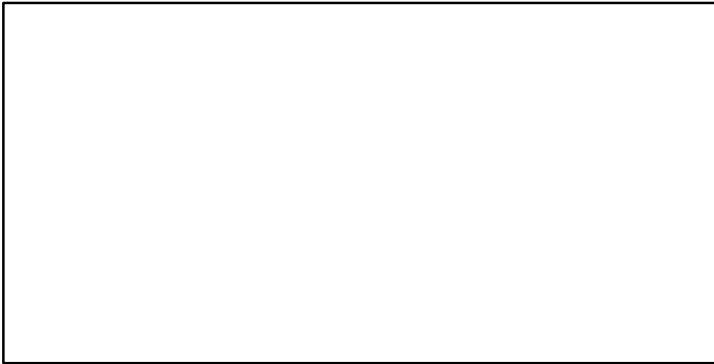
TAC*, Cpair*, Cadv*



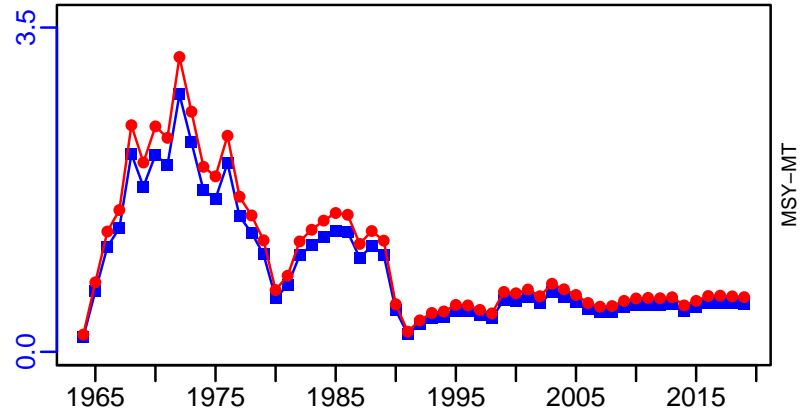
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1964–2019–ASHBROOK)



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

Hoki Eastern New Zealand [HOKIENZ]

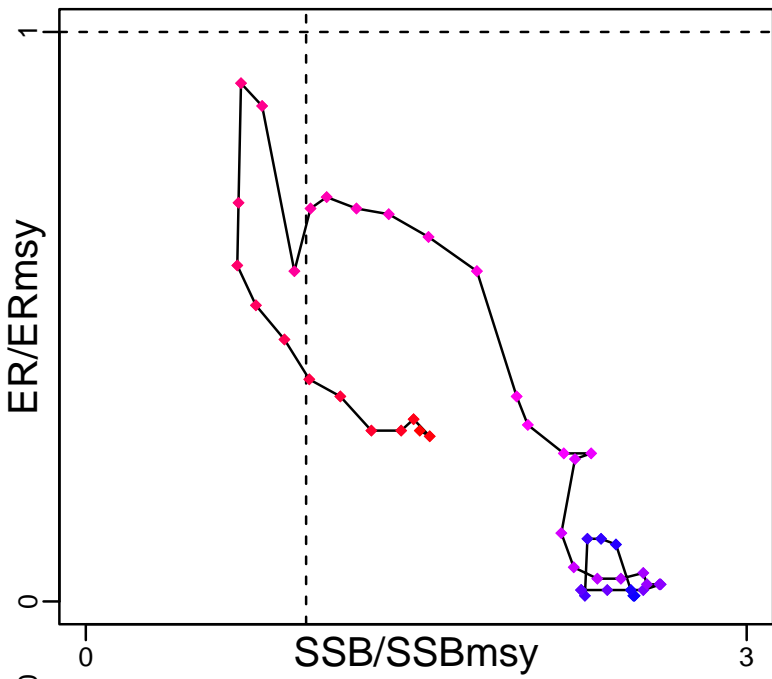
Metadata	
Scientific Name	Macruronus novaezelandiae
Current Assess ID	NIWA-HOKIENZ-1970-2022-MCGREGOR
Area	Eastern New Zealand
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2012, 2015, 2021, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2015	252,069
SSBmsy	SSBmsy-MT	2022	273,446
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.29
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2022	290,536
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2022	683,616
MSY	MSY-MT	2015	73,100
M	M-1/yr	2015	0.29
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

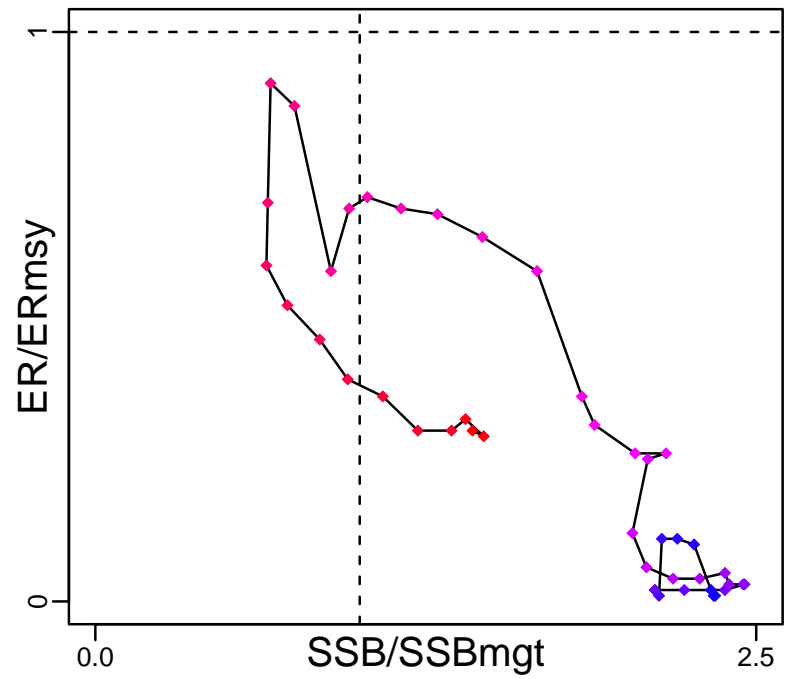
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2022	337,886	-	2+
TN	-	-	-	-	-
R	R-E00	2022	31,136,300	-	-
F	F-1/yr	2012	0.107	-	-
ER	ER-ratio	2022	0.151	-	-
TC	TC-MT	2022	51,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	1.236		
F/Fmsy	FdivFmsy-dimensionless	2012	0.382		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.3		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2022	1.163		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Hoki Eastern New Zealand [HOKIENZ]

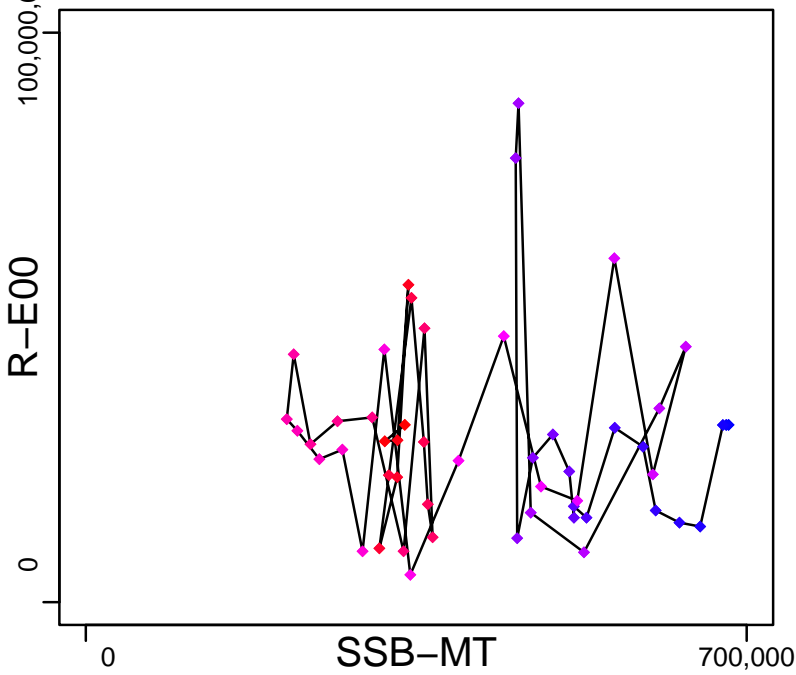
Kobe MSYpref (1970–2015–FU)



Kobe MGTpref (1970–2015–FU)



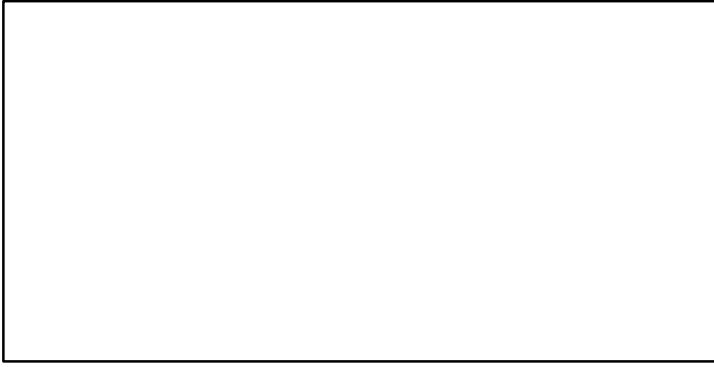
Spawner Recruit (1970–2022–MCGREGOR)



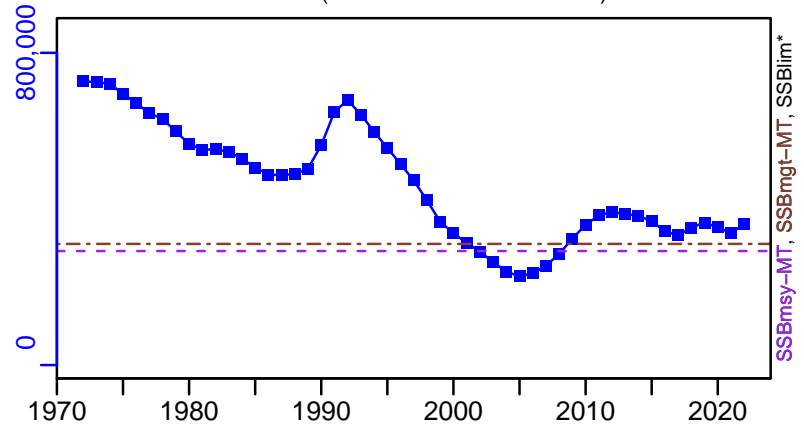
◆ Start Year ◆ End Year * No Data

Hoki Eastern New Zealand [HOKIENZ]

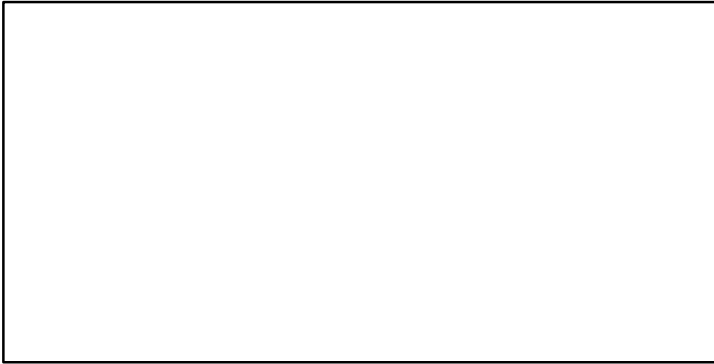
TB*



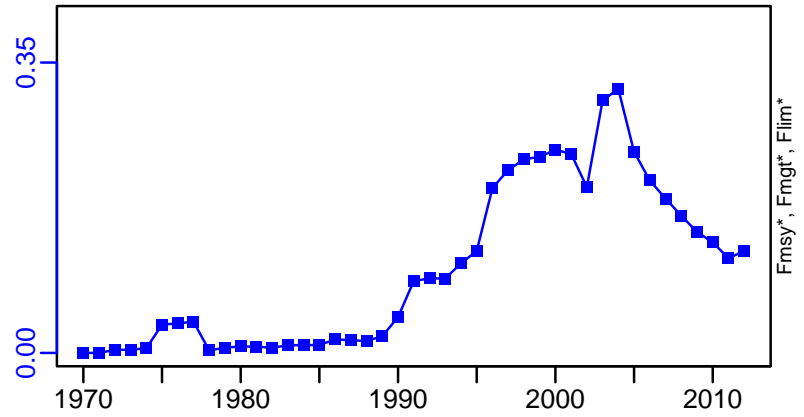
SSB-MT (1970–2022–MCGREGOR)



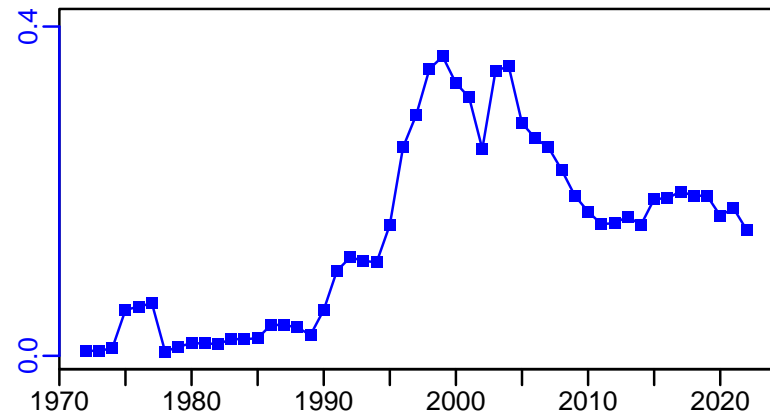
TN *



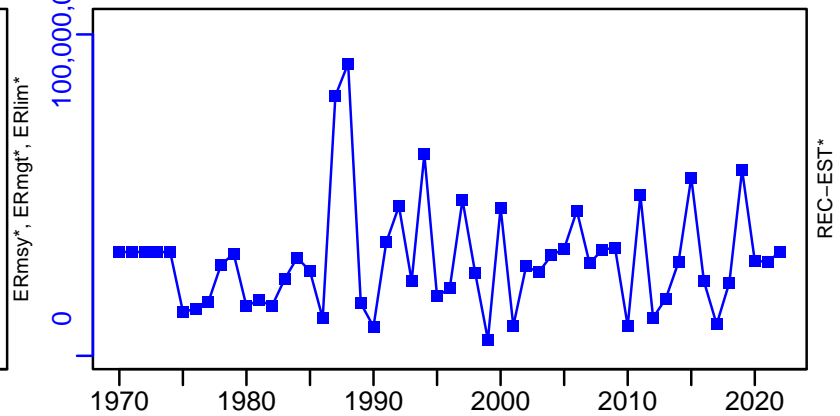
F-1/yr (1970–2012–CORDUE)



ER-ratio (1970–2022–MCGREGOR)

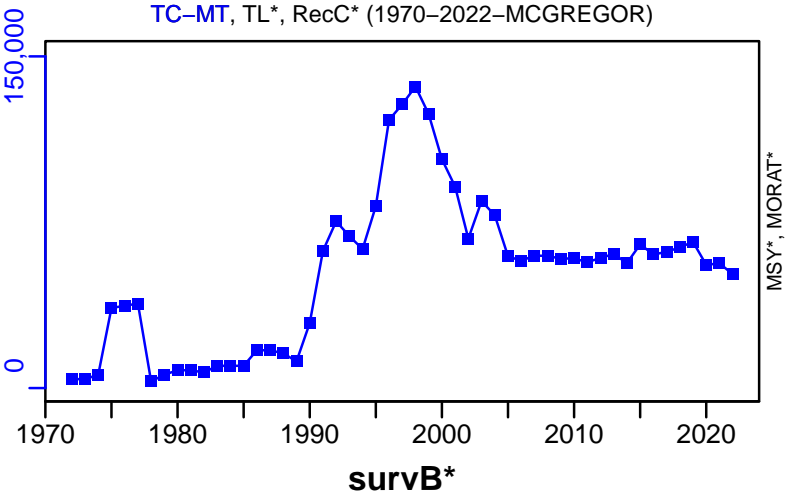


R-E00 (1970–2022–MCGREGOR)

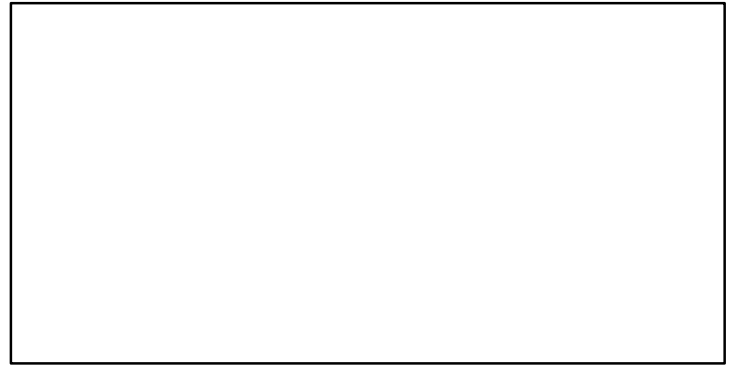


Hoki Eastern New Zealand [HOKIENZ]

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



TAC*, Cpair*, Cadv*



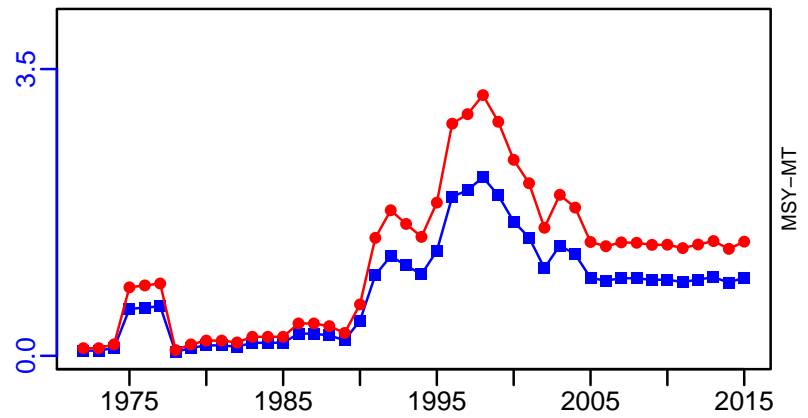
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970-2015-FU)



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

Hoki Western New Zealand [HOKIWNZ]

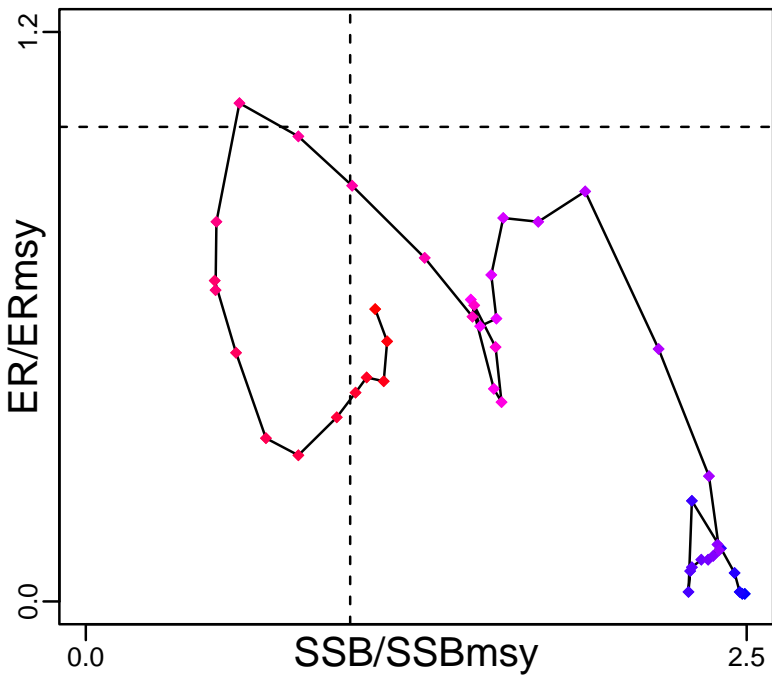
Metadata	
Scientific Name	Macruronus novaezelandiae
Current Assess ID	NIWA-HOKIWNZ-1970-2022-MCGREGOR
Area	Western New Zealand
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2012, 2015, 2022, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2015	479,200
SSBmsy	SSBmsy-MT	2022	489,156
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.25
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2022	519,728
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2022	1,222,890
MSY	MSY-MT	2015	119,800
M	M-1/yr	2015	0.29
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

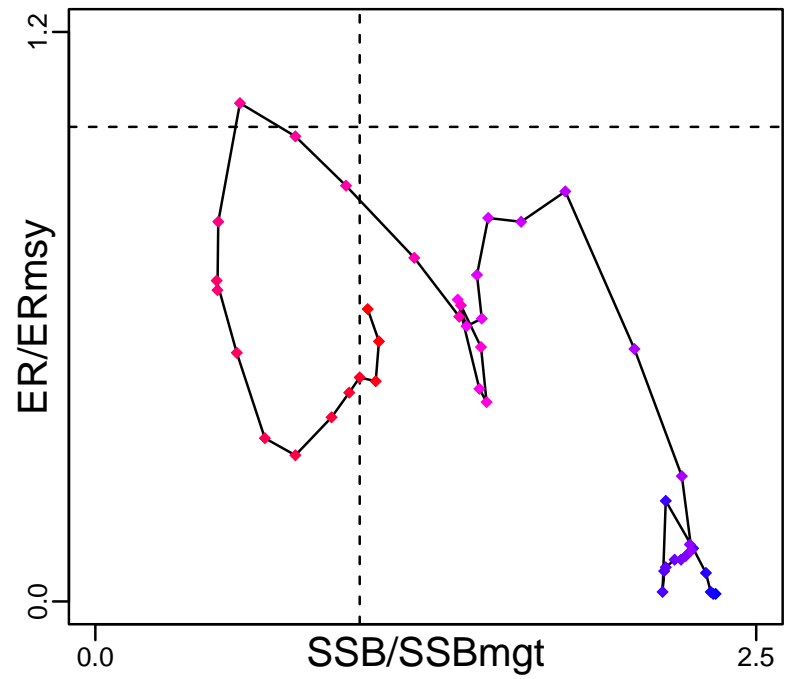
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2022	410,298	-	2+
TN	-	-	-	-	-
R	R-E00	2022	20,653,700	-	-
F	F-1/yr	2012	0.137	-	-
ER	ER-ratio	2022	0.099	-	-
TC	TC-MT	2022	40,500		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.839		
F/Fmsy	FdivFmsy-dimensionless	2012	0.547		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.616		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2022	0.789		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Hoki Western New Zealand [HOKIWNZ]

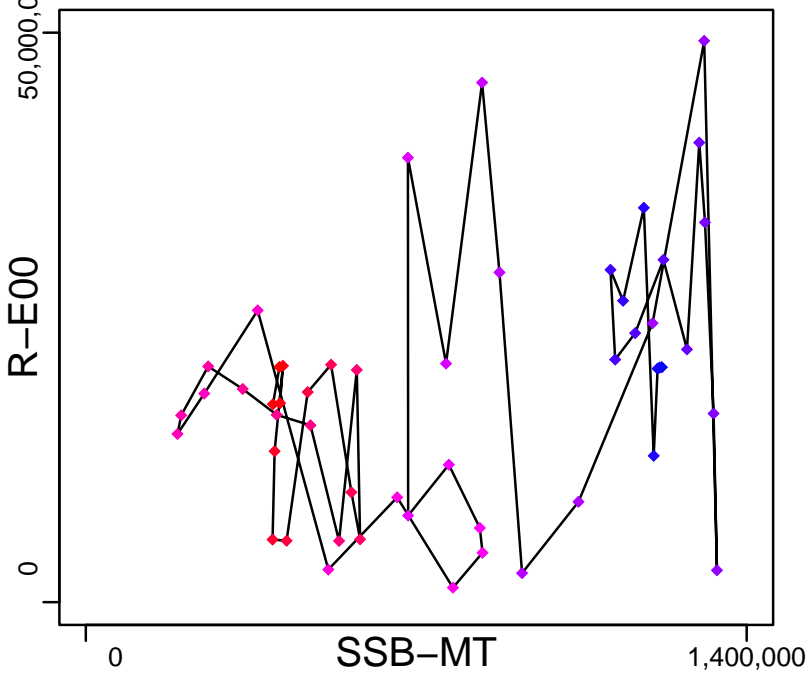
Kobe MSYpref (1970–2015–FU)



Kobe MGTpref (1970–2015–FU)



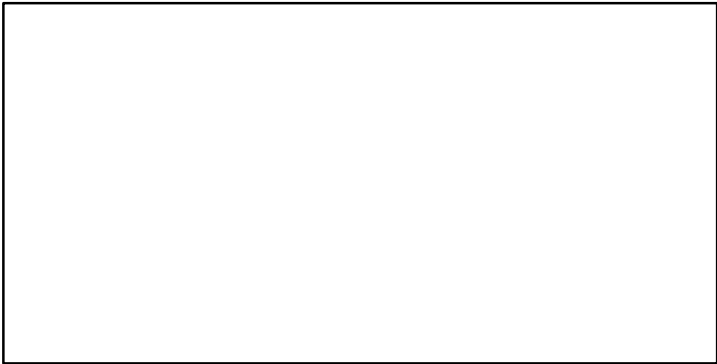
Spawner Recruit (1970–2022–MCGREGOR)



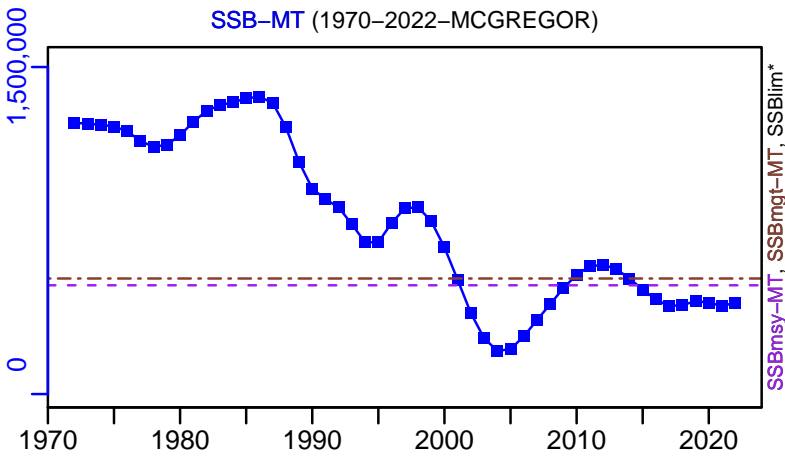
◆ Start Year ◆ End Year * No Data

Hoki Western New Zealand [HOKIWNZ]

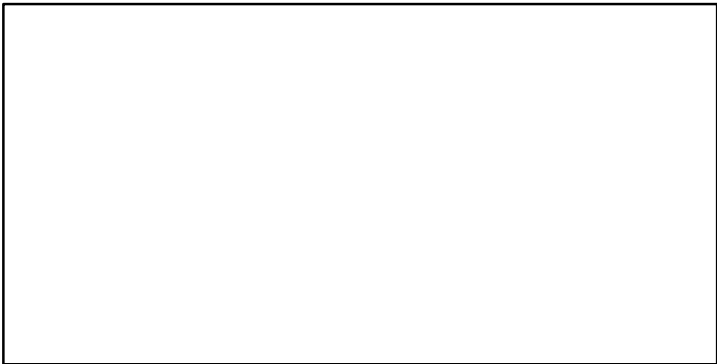
TB*



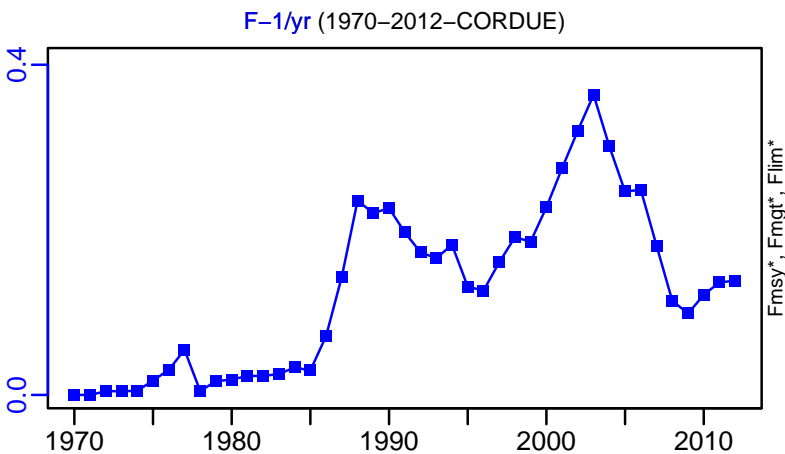
SSB-MT (1970–2022–MCGREGOR)



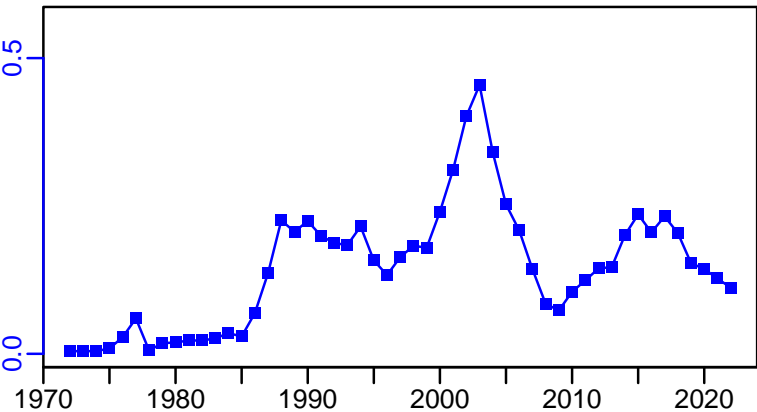
TN *



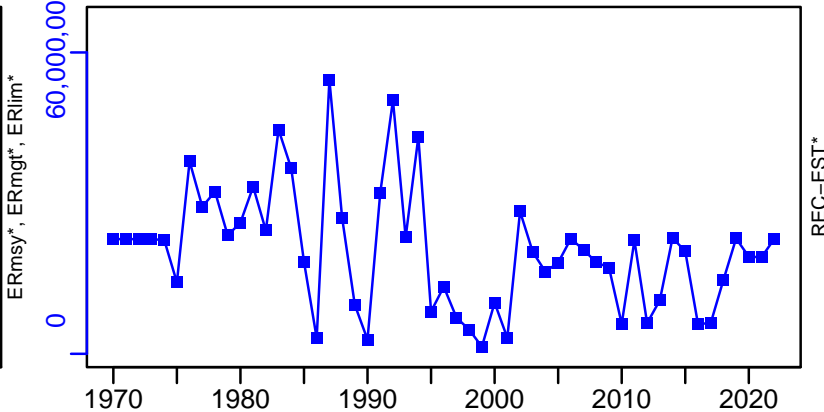
F-1/yr (1970–2012–CORDUE)



ER-ratio (1970–2022–MCGREGOR)

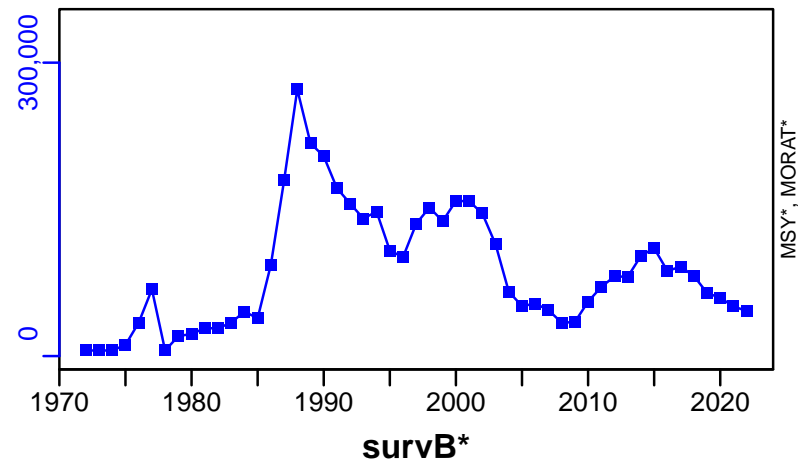


R-E00 (1970–2022–MCGREGOR)

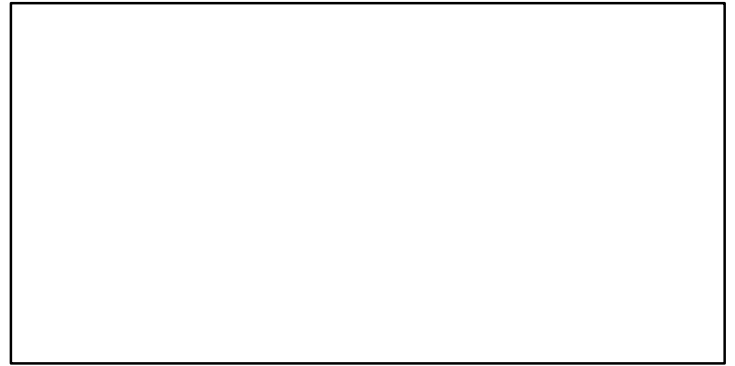


Hoki Western New Zealand [HOKIWNZ]

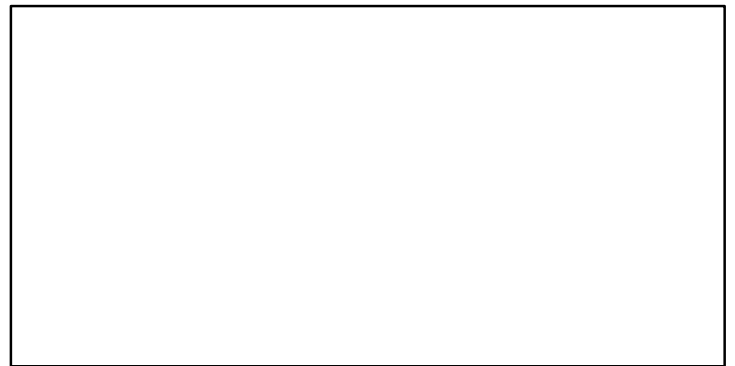
TC-MT, TL*, RecC* (1970-2022-MCGREGOR)



TAC*, Cpair*, Cadv*



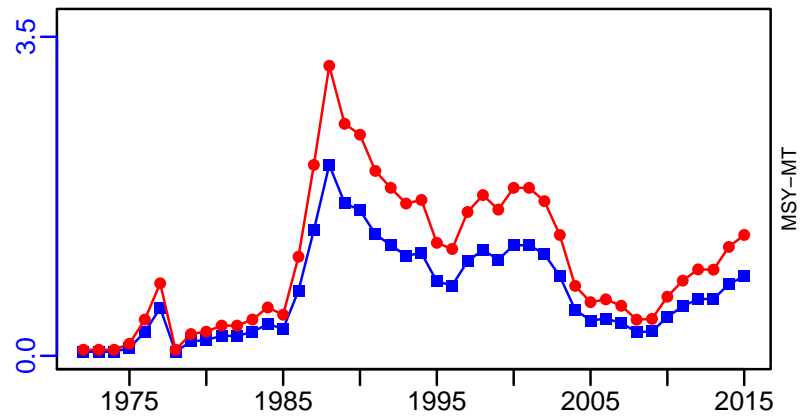
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970-2015-FU)



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

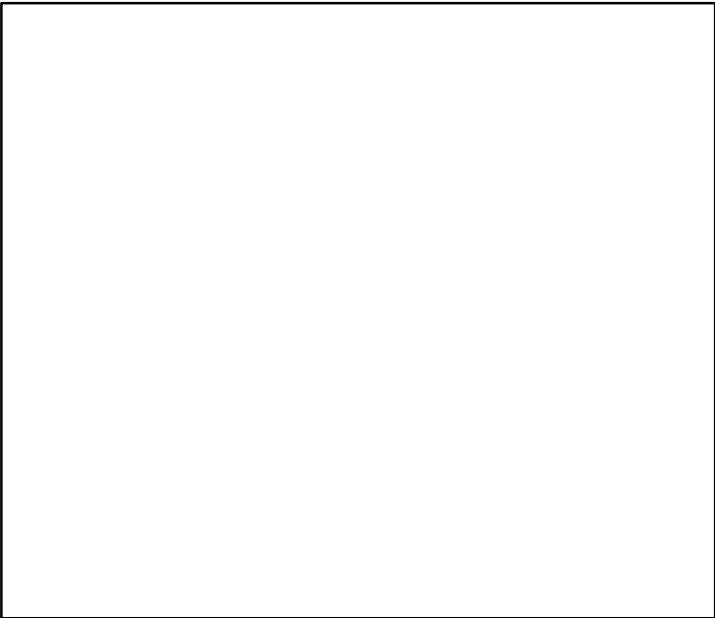
Longfin codling Pacific Ocean [LCODLINGPAC]

Metadata	
Scientific Name	Laemonema longipes
Current Assess ID	FAFRFJ-LCODLINGPAC-1989-2013-JPNIMP2016
Area	Pacific Ocean
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

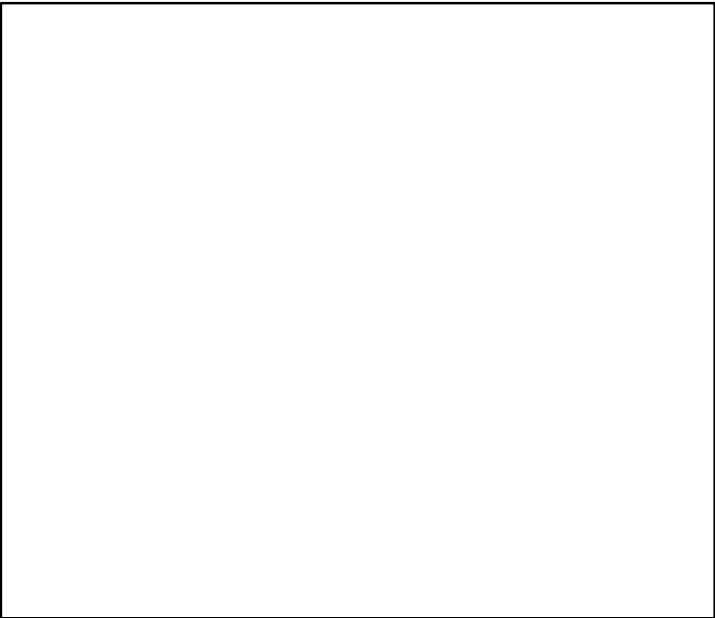
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	16,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

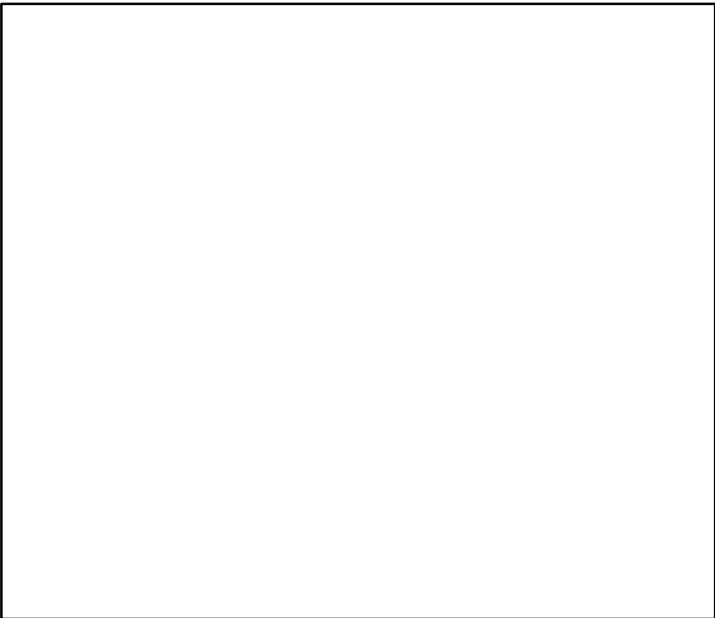
Kobe MSY*



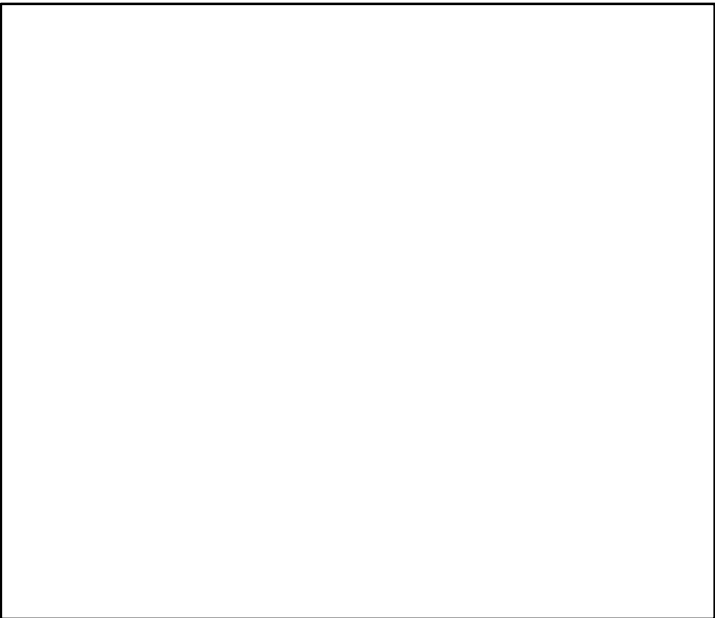
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

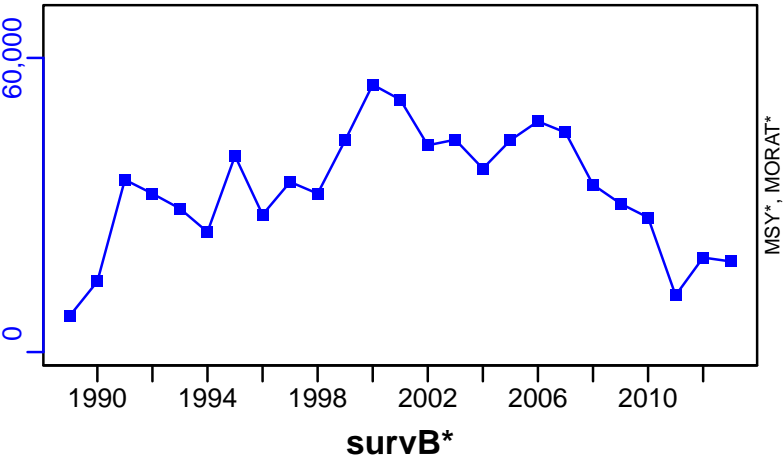


Recruits*



Longfin codling Pacific Ocean [LCODLINGPAC]

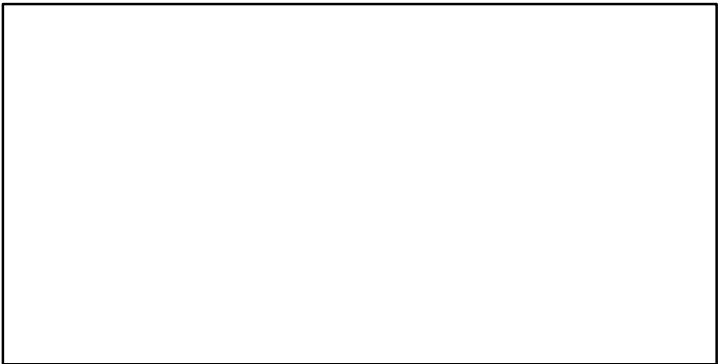
TC-MT, TL*, RecC* (1989–2013–JPNIMP2016)



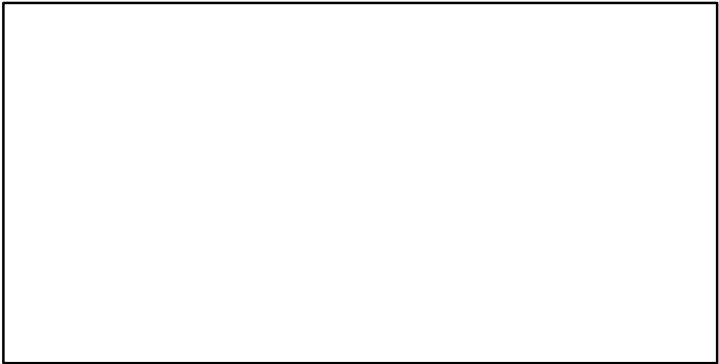
TAC*, Cpair*, Cadv*



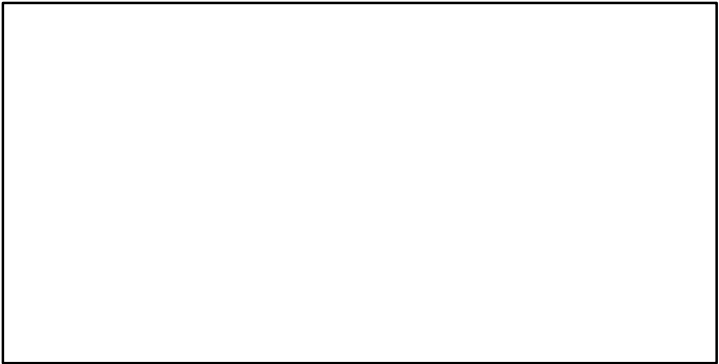
CPUE*



EFFORT*



CdivMSY*



Ling North-East Arctic [LINGI-II]

Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGI-II-1988-2020-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016, 2018, 2020

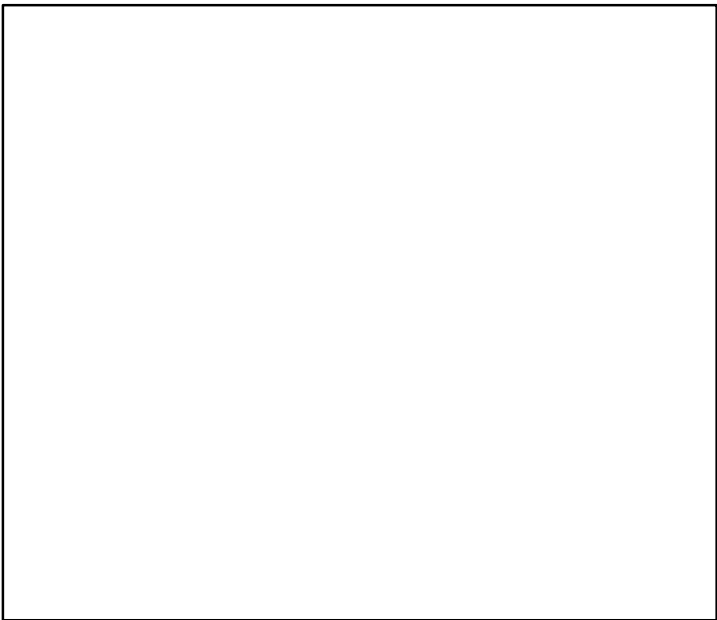
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	99	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	9560		
TL	TL-MT	2018	11,613		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

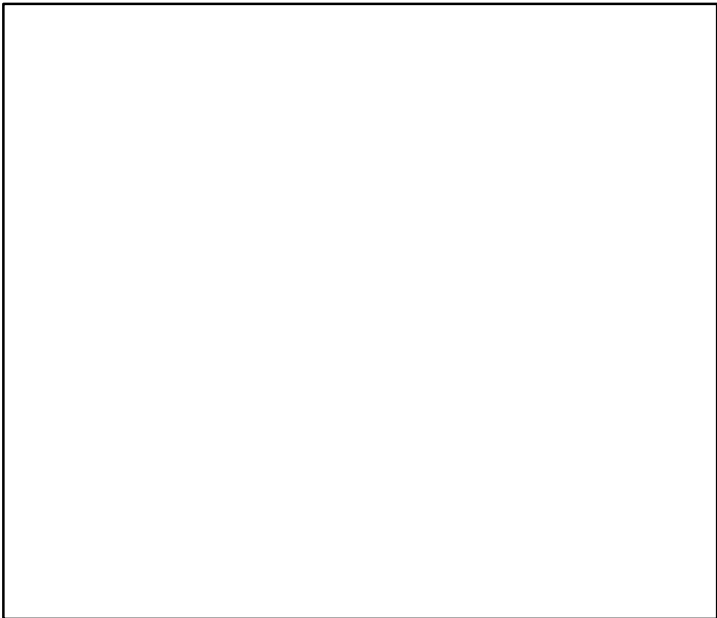
Kobe MSY*



Kobe MGT*



Spawner Recruit*



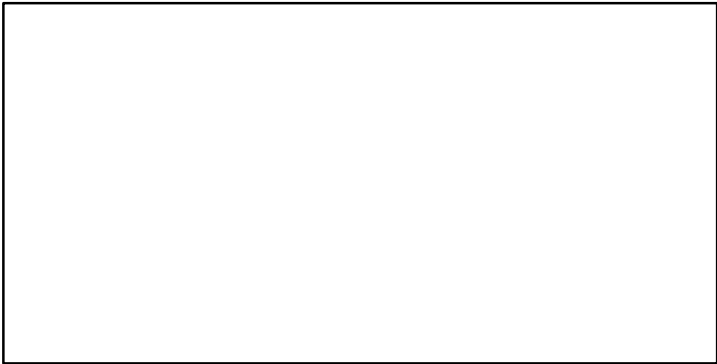
Production*



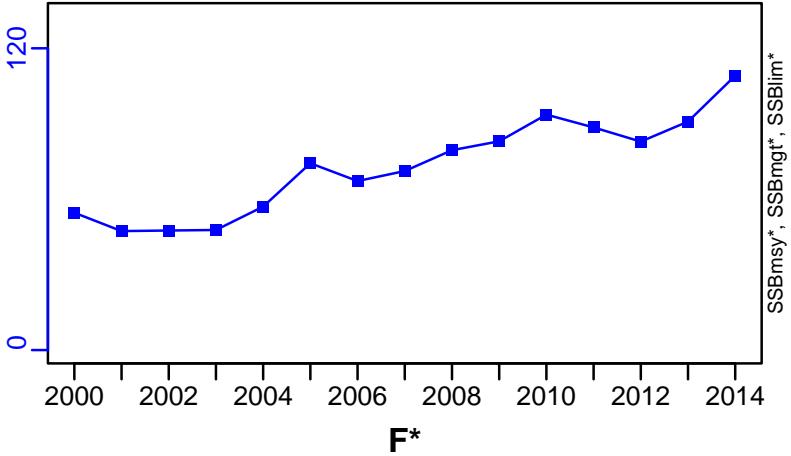
◆ Start Year ◆ End Year * No Data

Ling North-East Arctic [LINGI-II]

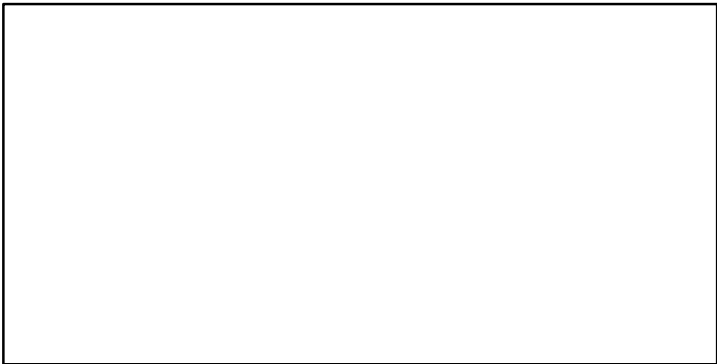
TB*



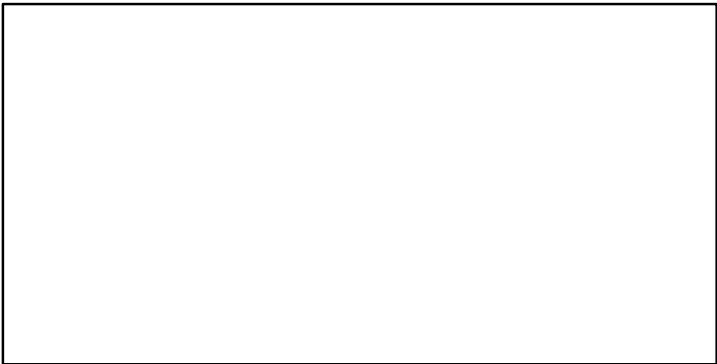
SSB-index (1988–2014–ICESIMP2018)



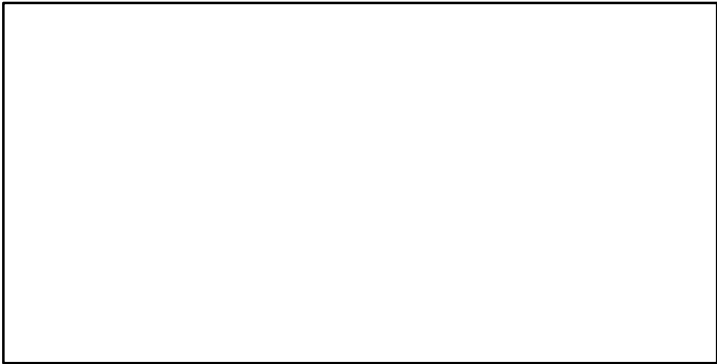
TN *



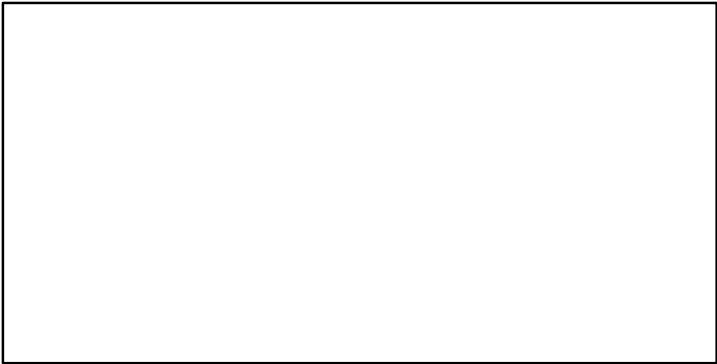
F*



ER*

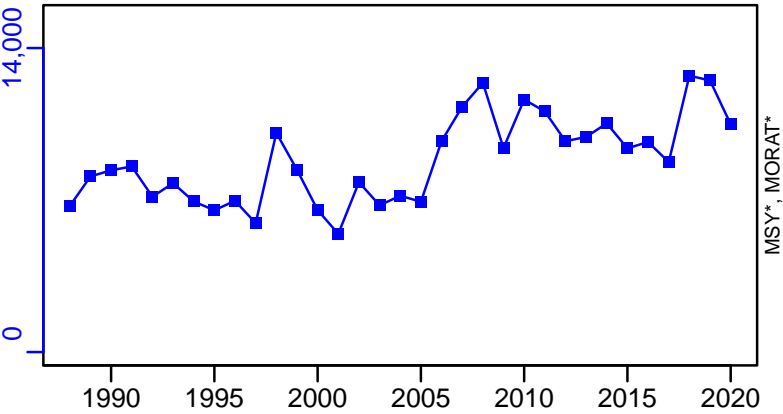


Recruits*



Ling North-East Arctic [LINGI-II]

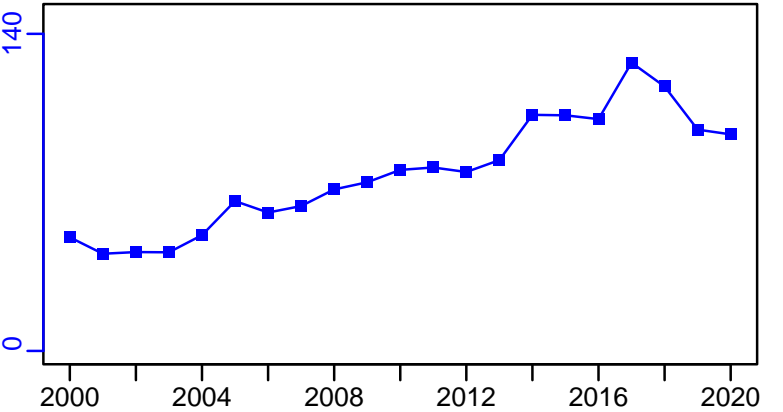
TC-MT, TL*, RecC* (1988-2020-ICESIMP2021-2)



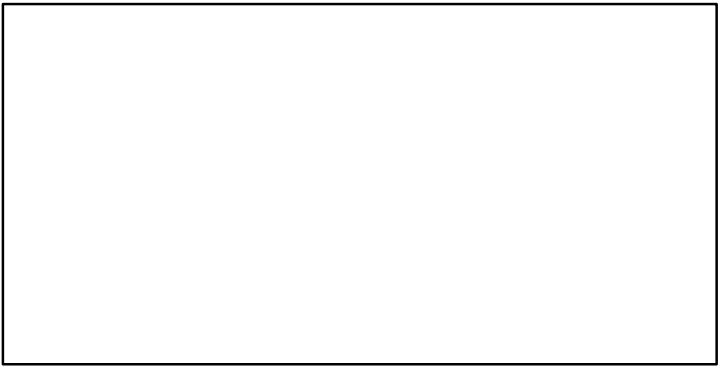
TAC*, Cpair*, Cadv*



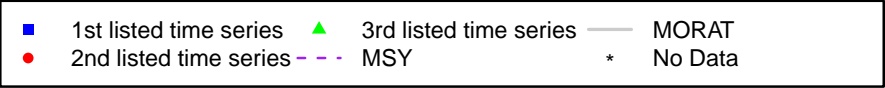
survB-index (1988-2020-ICESIMP2021-2)



CPUE*



CdivMSY*



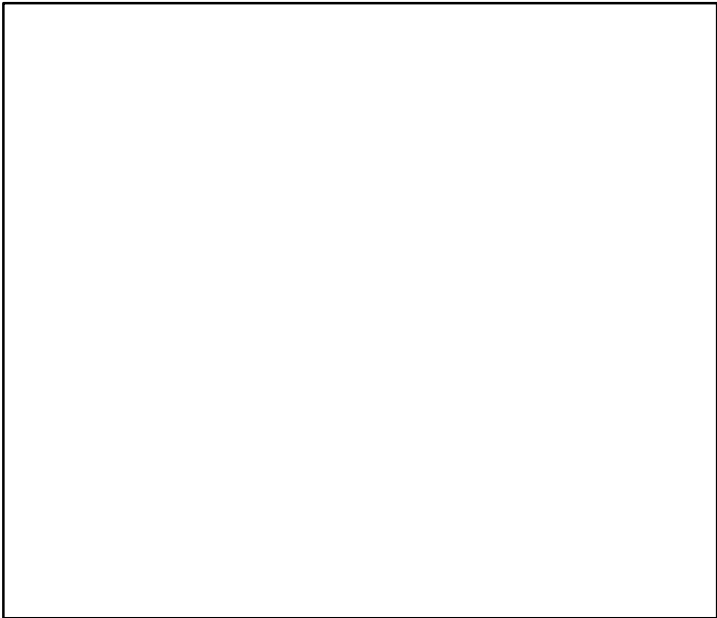
Ling Northeast Atlantic [LINGNEATL]

Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGNEATL-1988-2020-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016, 2018, 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	144	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	15,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

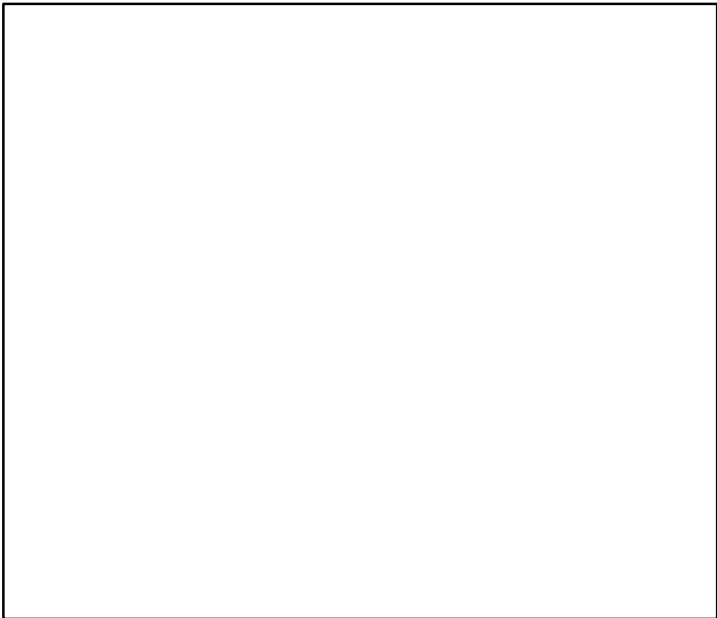
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



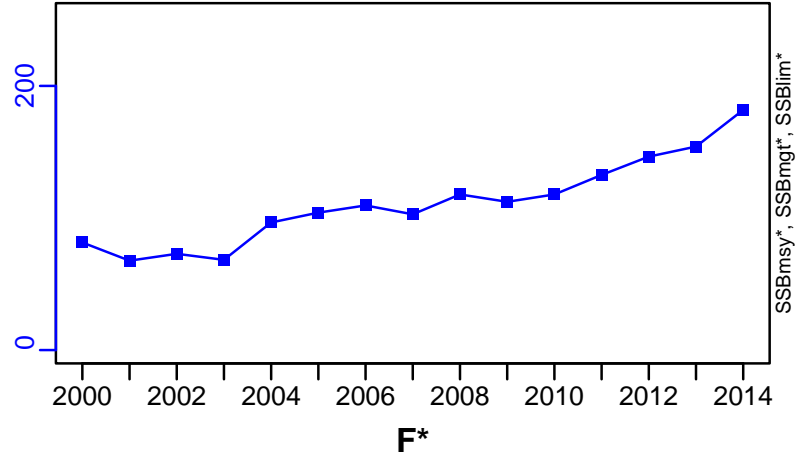
◆ Start Year ◆ End Year * No Data

Ling Northeast Atlantic [LINGNEATL]

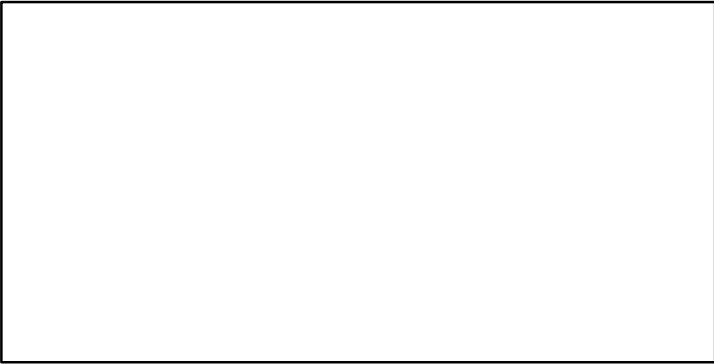
TB*



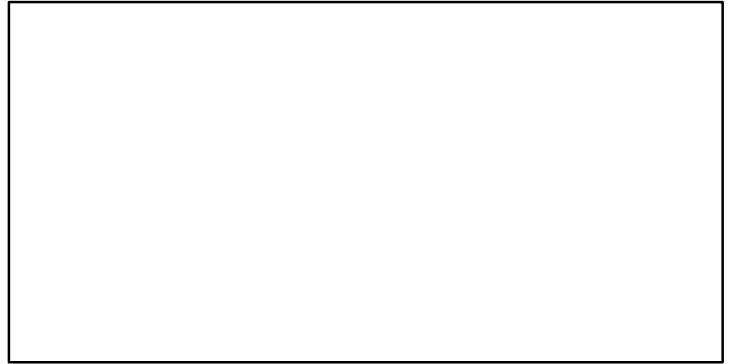
SSB-index (1988–2014–ICESIMP2018)



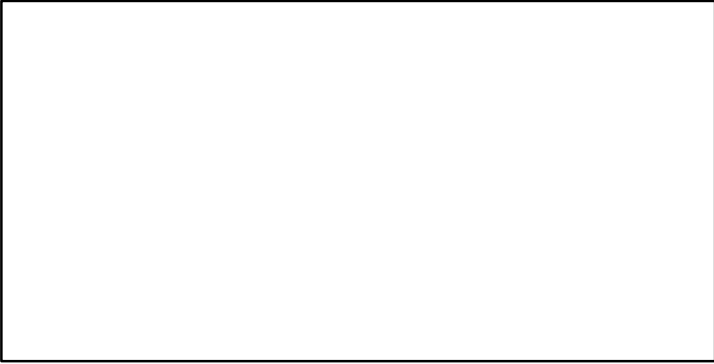
TN *



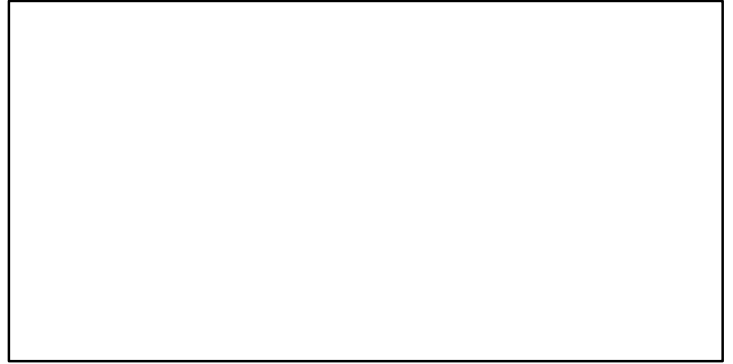
F*



ER*

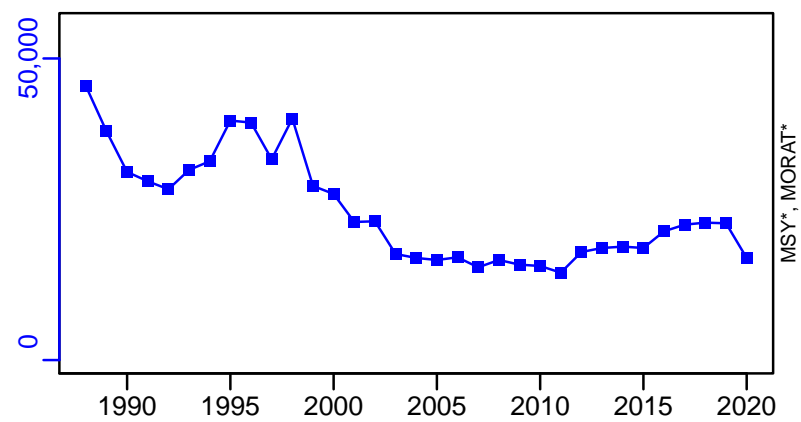


Recruits*

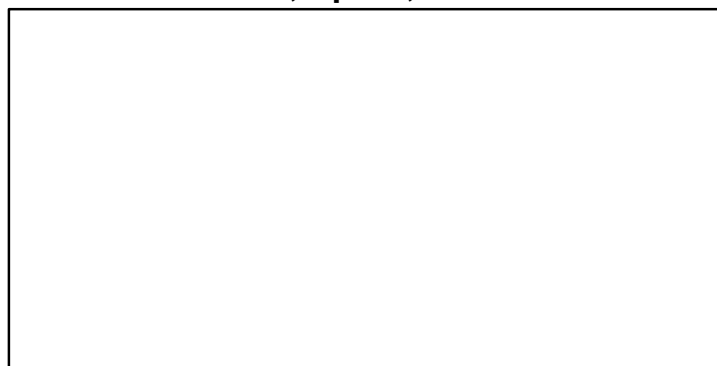


Ling Northeast Atlantic [LINGNEATL]

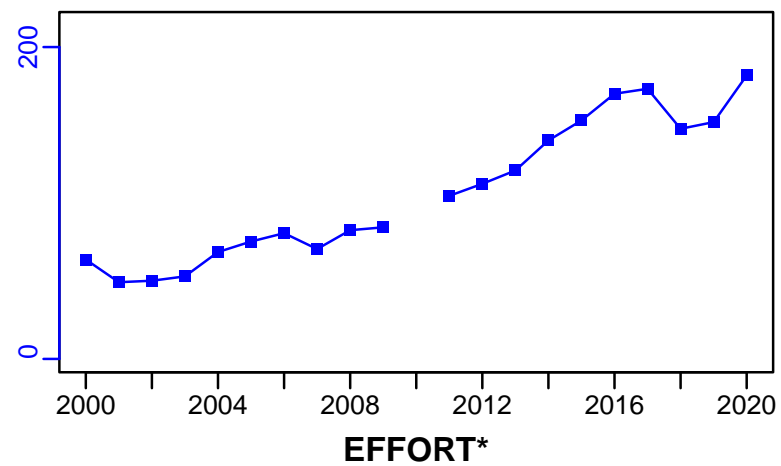
TL-MT, TC*, RecC* (1988-2020-ICESIMP2021-2)



TAC*, Cpair*, Cadv*



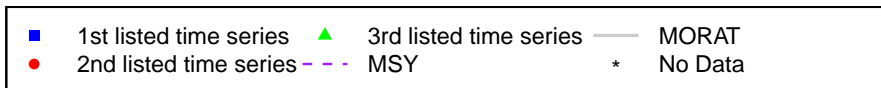
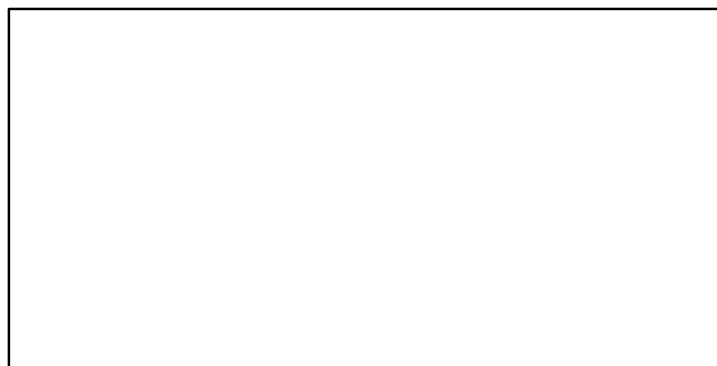
survB-index (1988-2020-ICESIMP2021-2)



CPUE*



CdivMSY*



Ling Iceland Grounds [LINGVa]

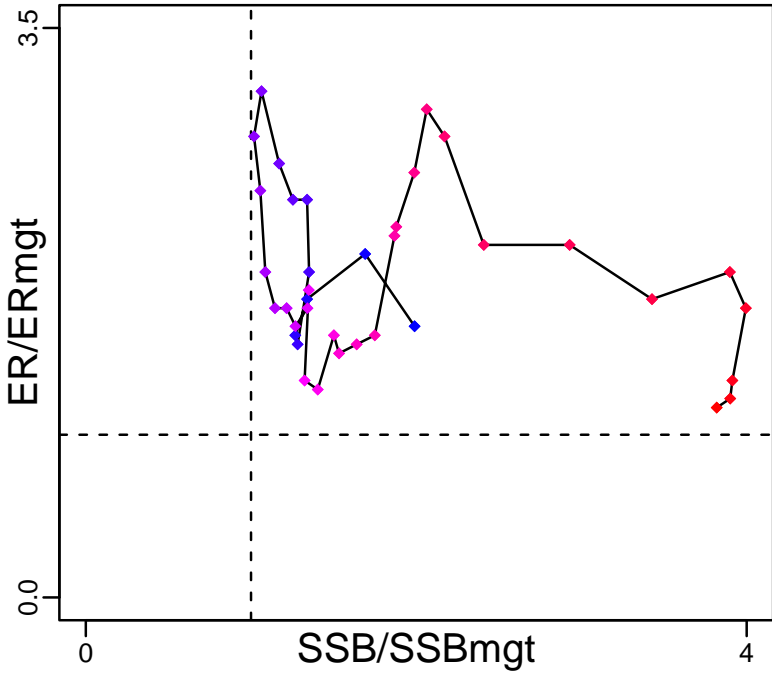
Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGVa-1982-2021-ICESIMP2021-2
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2017, 2018, 2019, 2015, 2016, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	9930
Fmgt	Fmgt-1/yr	2016	0.24
ERmgt	ERmgt-ratio	2019	0.18
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	7090
Flim	-	-	-
ERlim	-	-	-

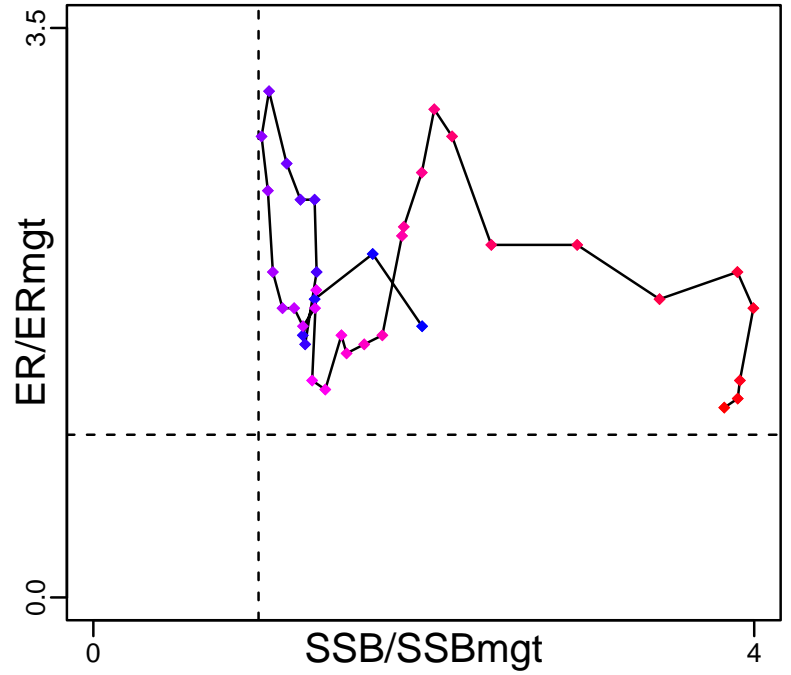
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	56,100	Both	-
SSB	SSB-MT	2021	25,700	-	-
TN	-	-	-	-	-
R	R-E00	2021	3830	-	3
F	F-1/yr	2016	0.28	-	-
ER	ER-ratio	2021	0.264	-	-
TC	TC-MT	2021	7060		
TL	TL-MT	2021	7060		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.167		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	3.671		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.167		
ER/ERmgt	-	-	-		

Ling Iceland Grounds [LINGVa]

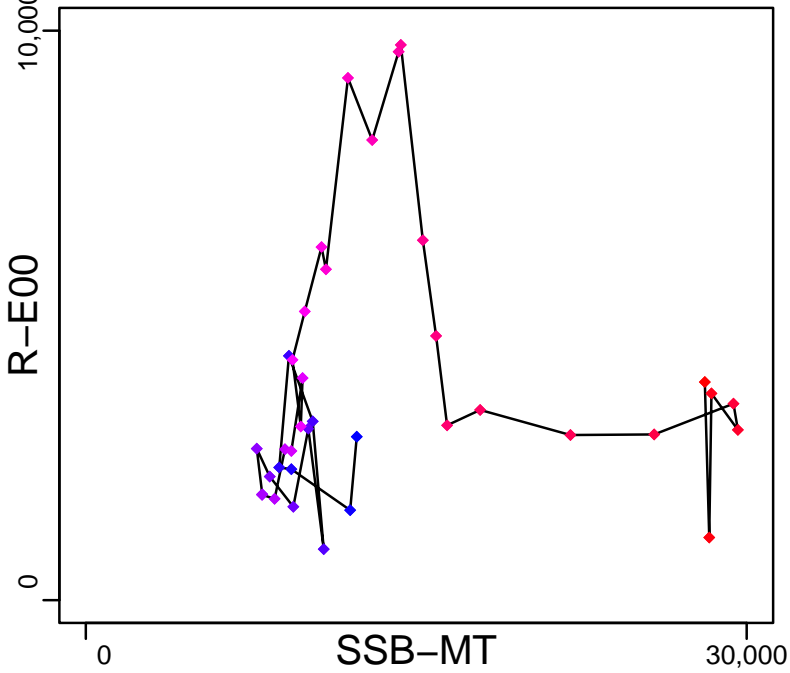
Kobe MSYpref (1979–2019–ICESIMP2021)



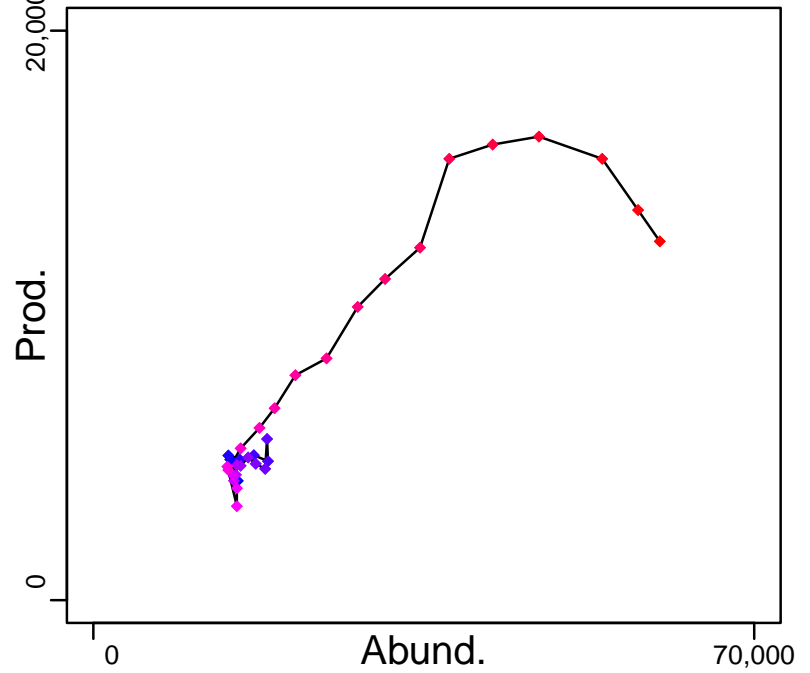
Kobe MGTpref (1979–2019–ICESIMP2021)



Spawner Recruit (1982–2021–ICESIMP2021–2)



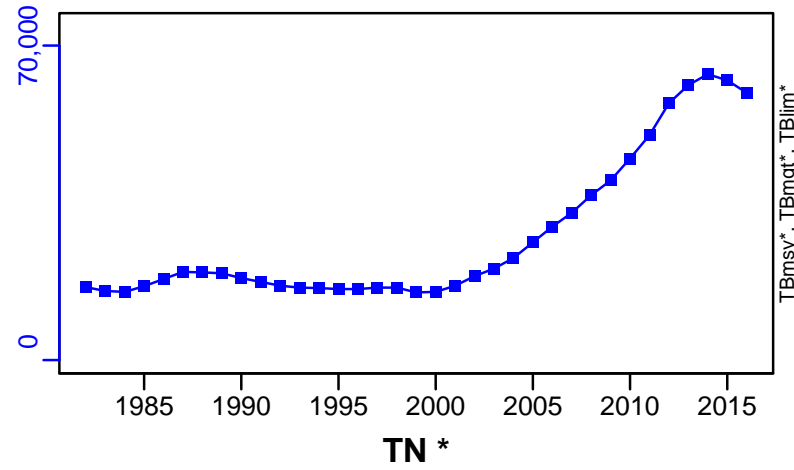
Production (1982–2016–ICESIMP2016)



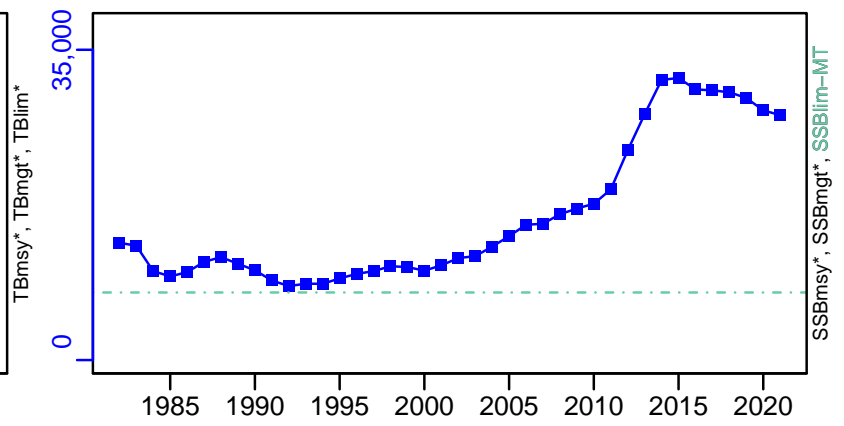
◆ Start Year ◆ End Year * No Data

Ling Iceland Grounds [LINGVa]

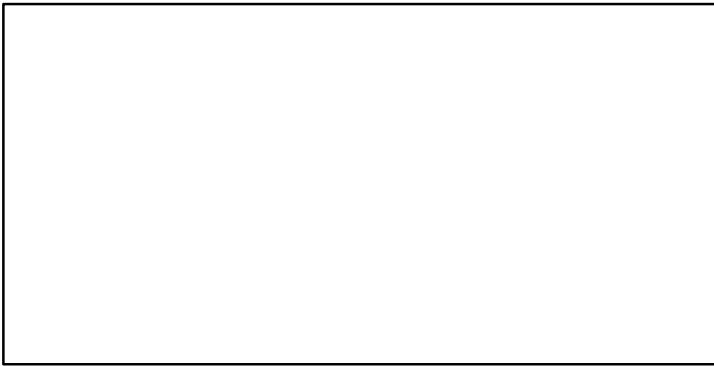
TB-MT (1982–2016–ICESIMP2016)



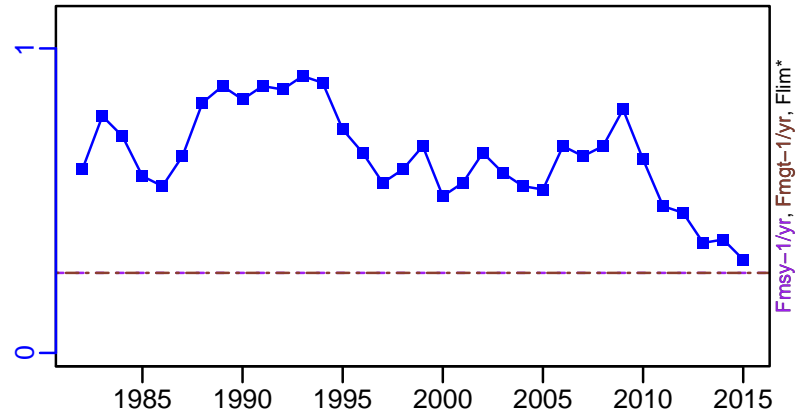
SSB-MT (1982–2021–ICESIMP2021-2)



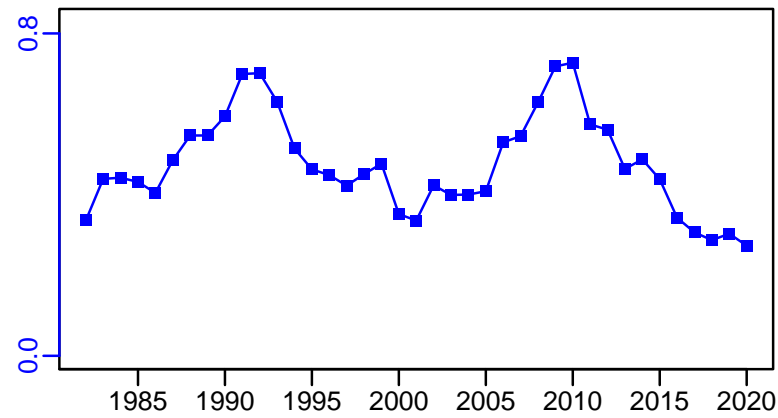
TN *



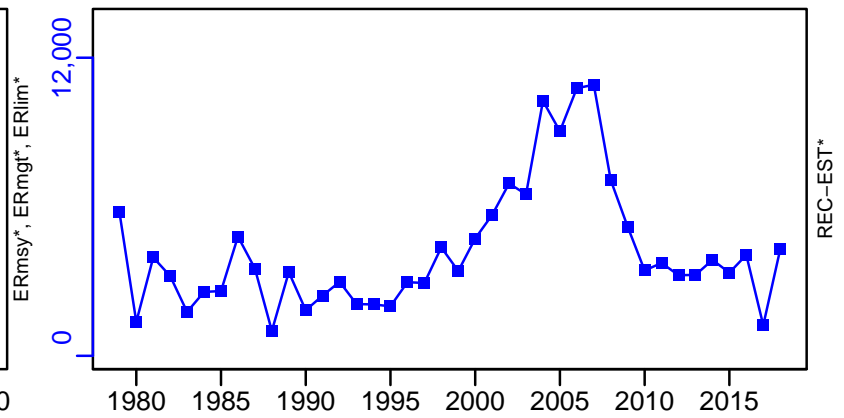
F-1/yr (1982–2016–ICESIMP2016)



ER-ratio (1982–2021–ICESIMP2021-2)

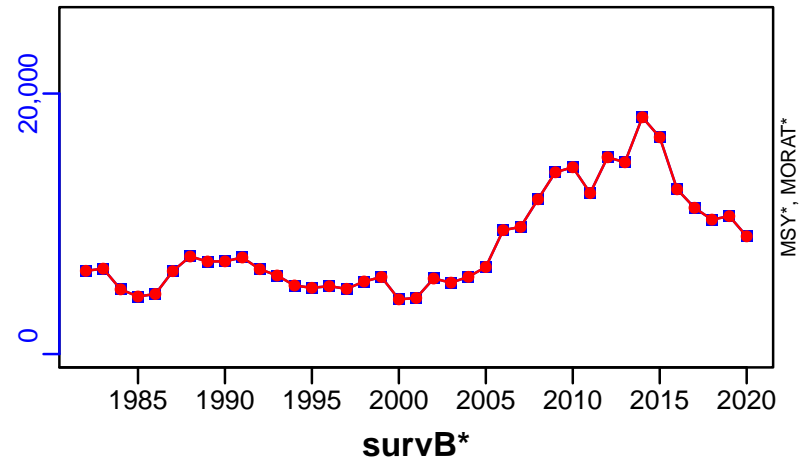


R-E00 (1982–2021–ICESIMP2021-2)

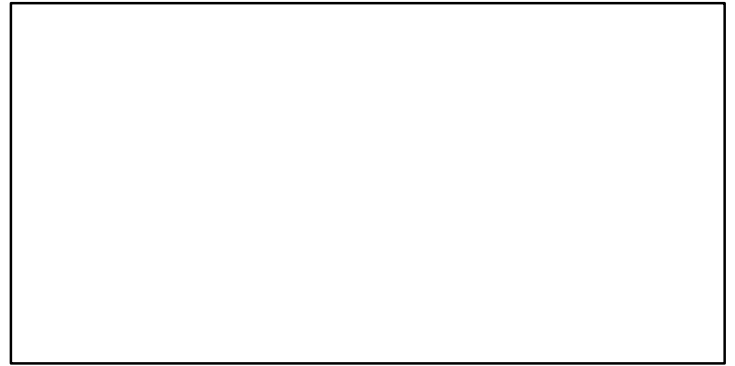


Ling Iceland Grounds [LINGVa]

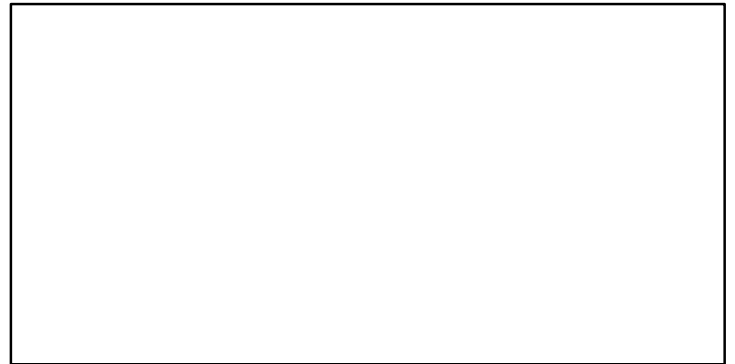
TC-MT, TL-MT, RecC* (1982-2021-ICESIMP2021-2)



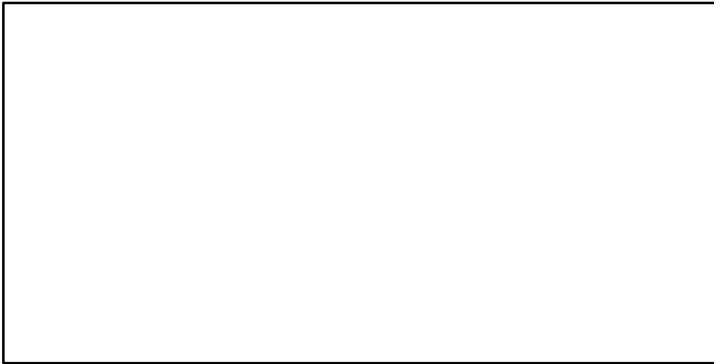
TAC*, Cpair*, Cadv*



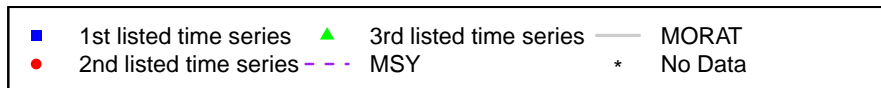
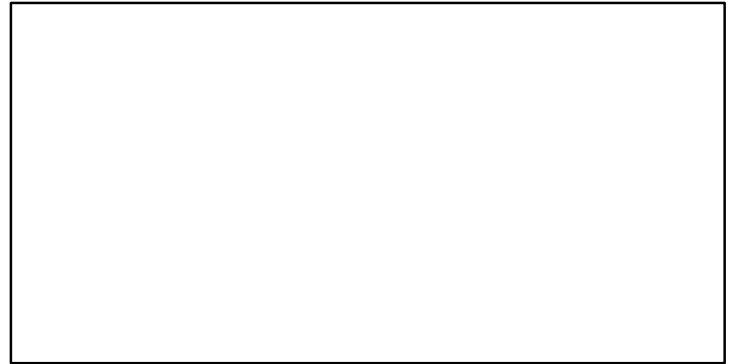
CPUE*



EFFORT*



CdivMSY*



Ling Faroe Grounds [LINGVb]

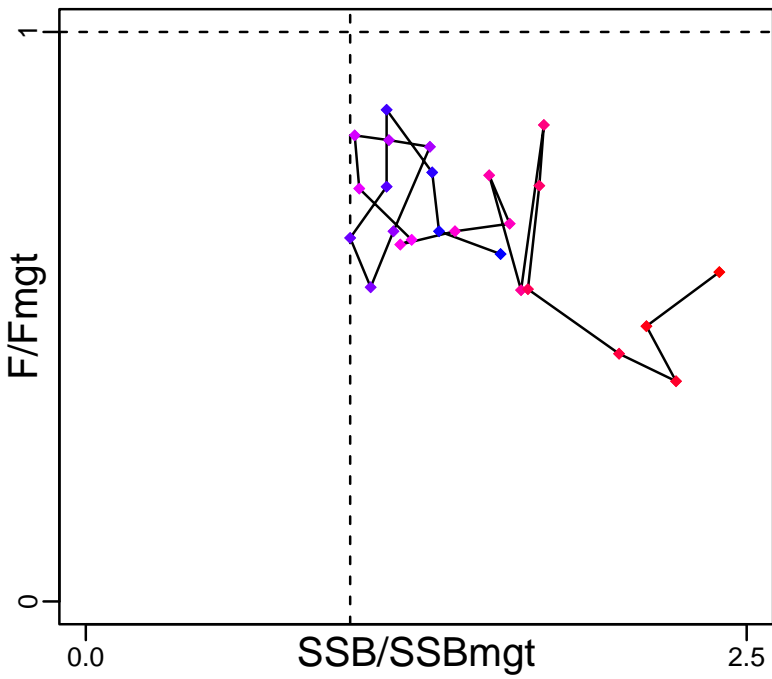
Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGVb-1988-2021-ICESIMP2021-2
Area	Faroe Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016, 2018, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	11,600
Fmgt	Fmgt-1/yr	2021	0.6
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	9340
Flim	Flim-1/yr	2021	0.85
ERlim	-	-	-

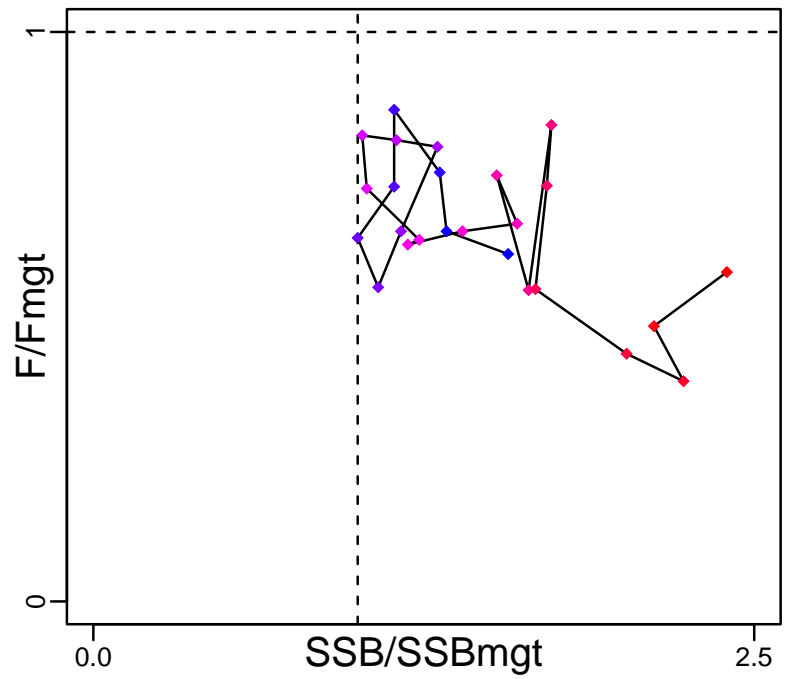
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	27,800	-	-
TN	-	-	-	-	-
R	R-E00	2021	2940	-	3
F	F-1/yr	2021	0.347	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2021	9430		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.397		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.578		
ER/ERmgt	-	-	-		

Ling Faroe Grounds [LINGVb]

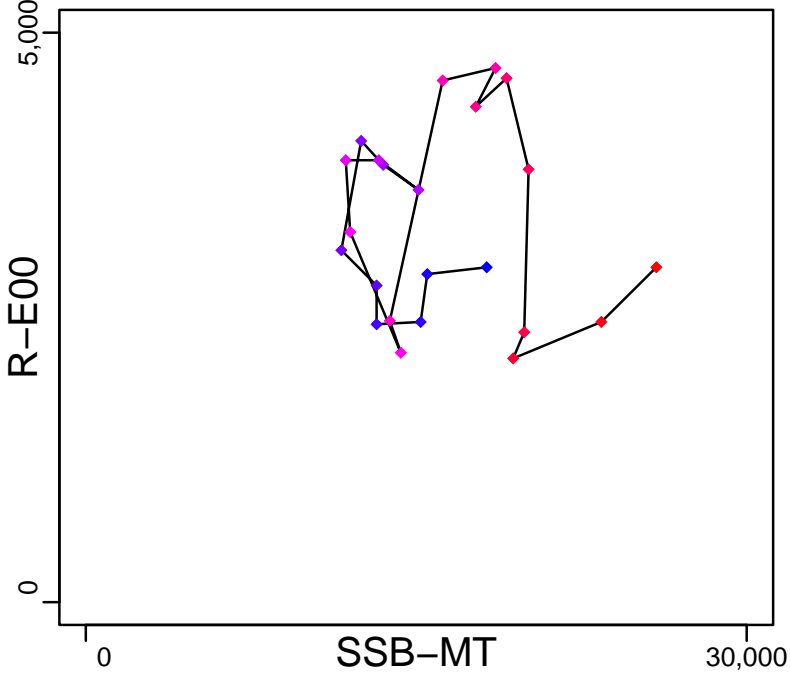
Kobe MSYpref (1988–2021–ICESIMP2021–2)



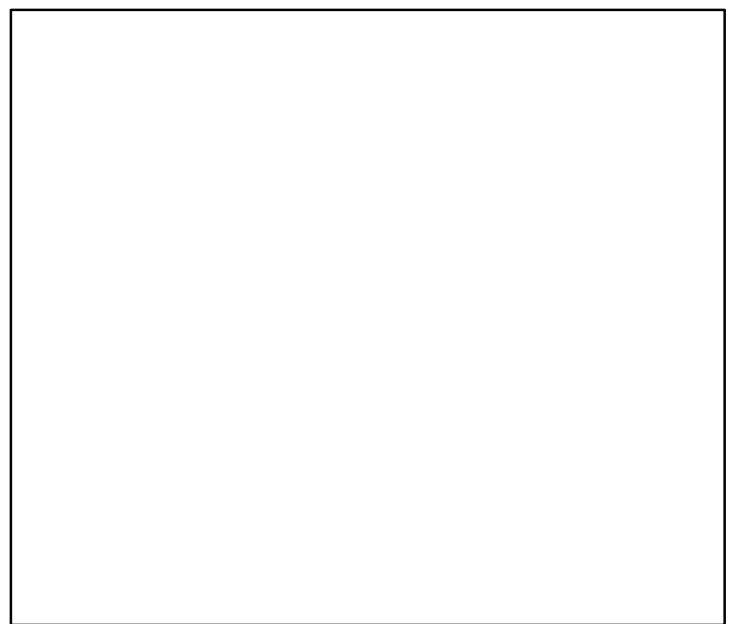
Kobe MGTpref (1988–2021–ICESIMP2021–2)



Spawner Recruit (1988–2021–ICESIMP2021–2)



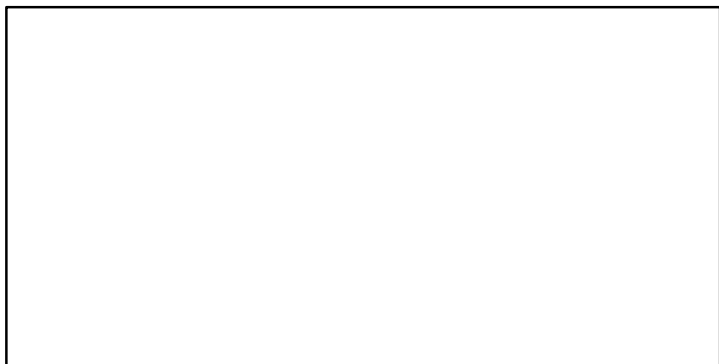
Production*



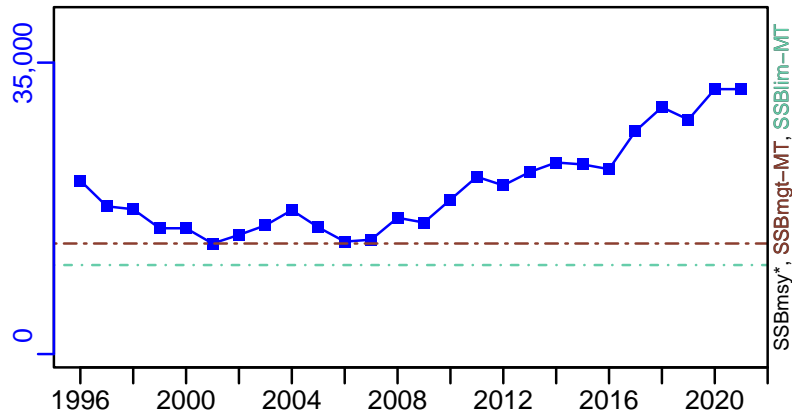
◆ Start Year ◆ End Year * No Data

Ling Faroe Grounds [LINGVb]

TB*



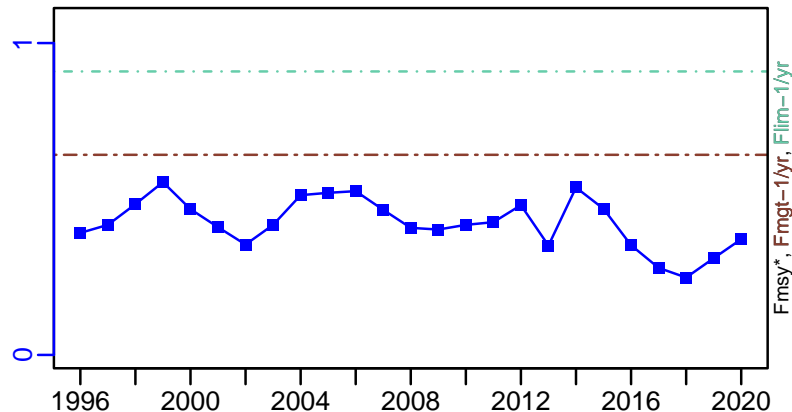
SSB-MT (1988-2021-ICESIMP2021-2)



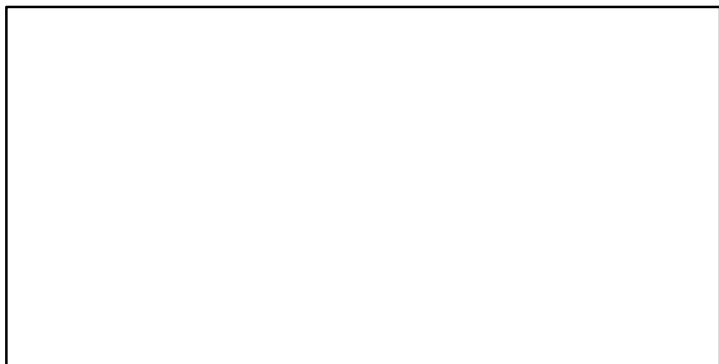
TN *



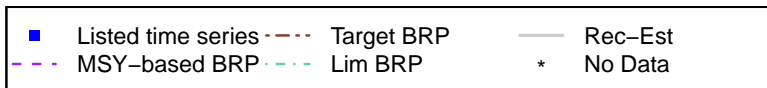
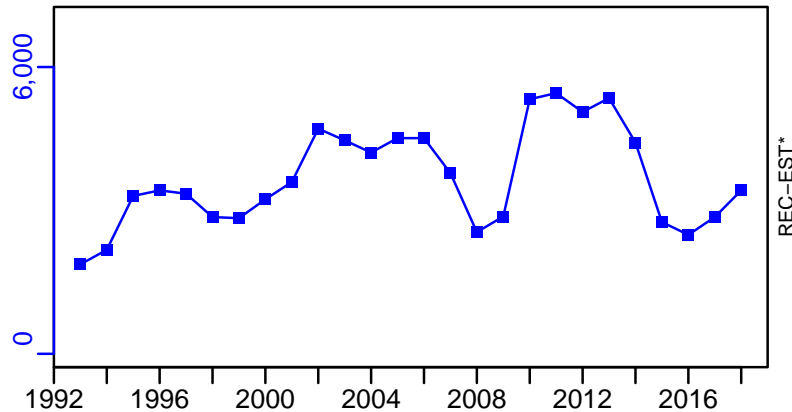
F-1/yr (1988-2021-ICESIMP2021-2)



ER*

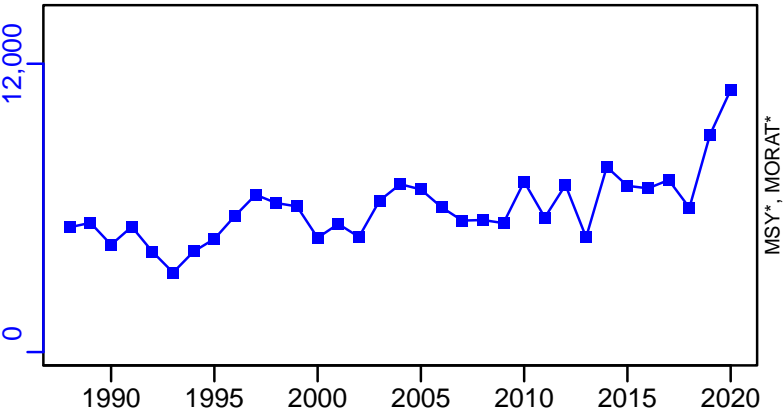


R-E00 (1988-2021-ICESIMP2021-2)

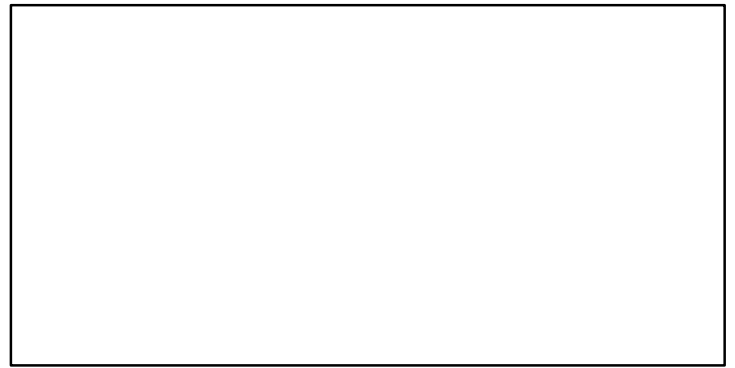


Ling Faroe Grounds [LINGVb]

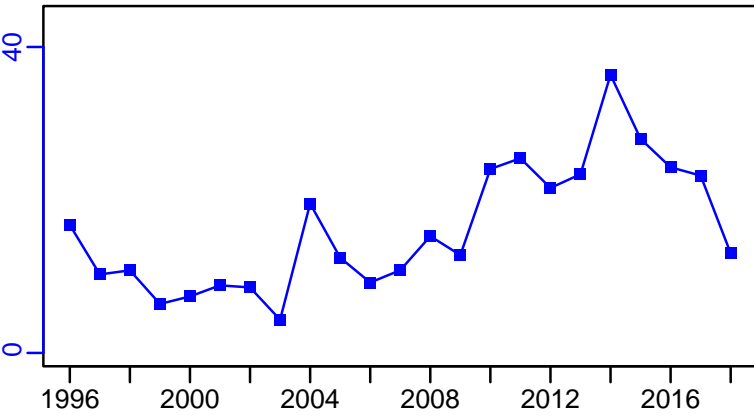
TL-MT, TC*, RecC* (1988-2021-ICESIMP2021-2)



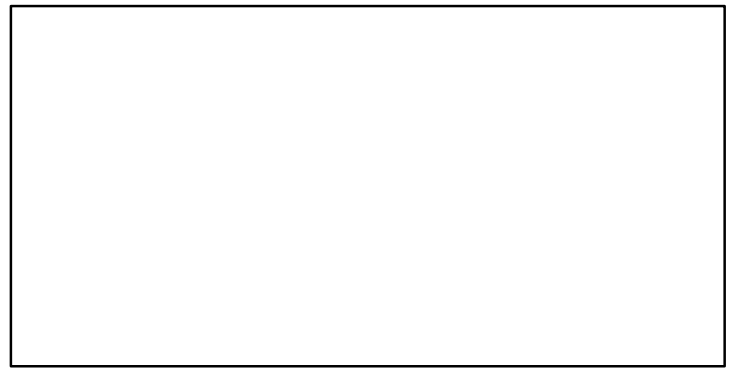
TAC*, Cpair*, Cadv*



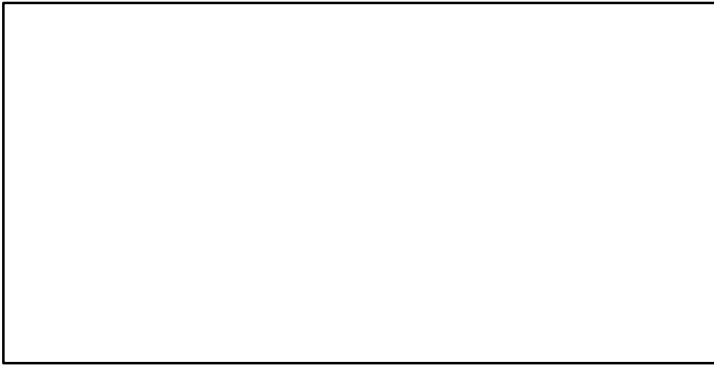
survB-index (1988-2018-ICESIMP2021)



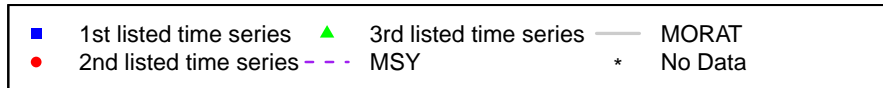
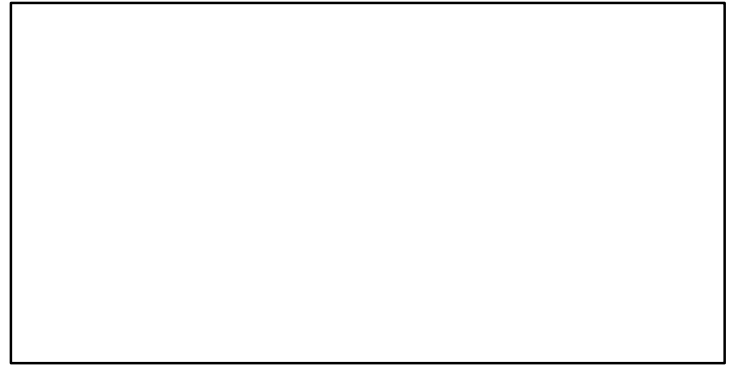
CPUE*



EFFORT*



CdivMSY*

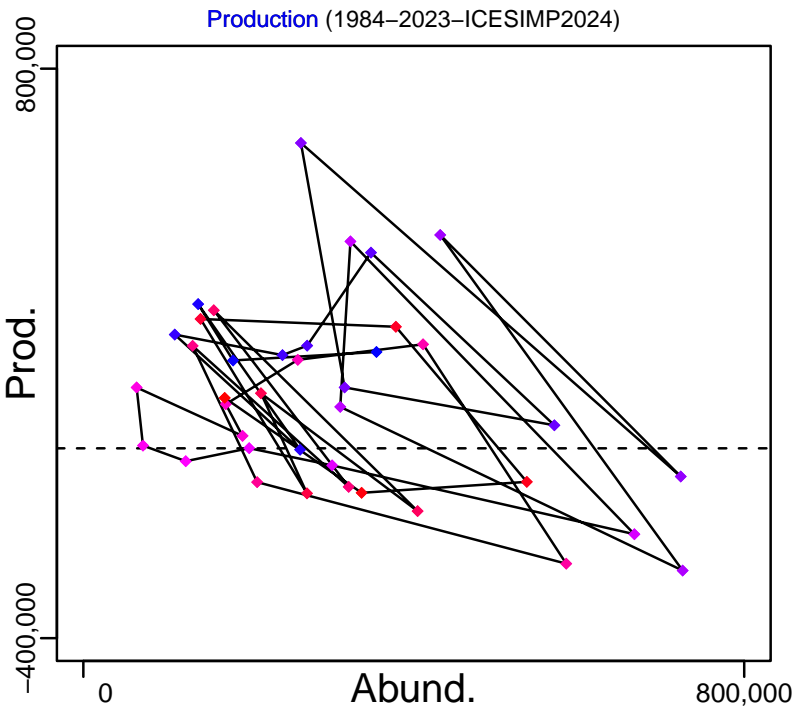
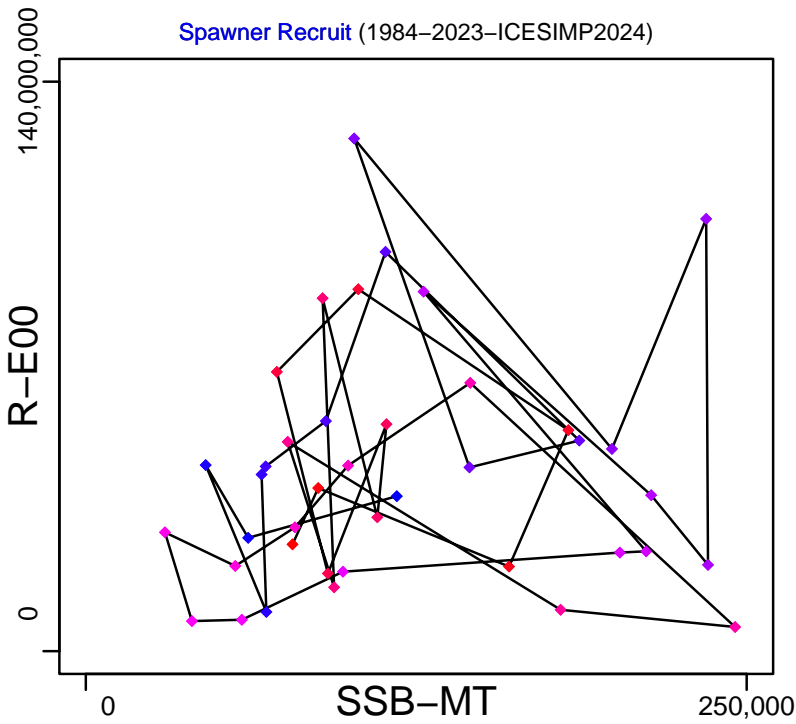
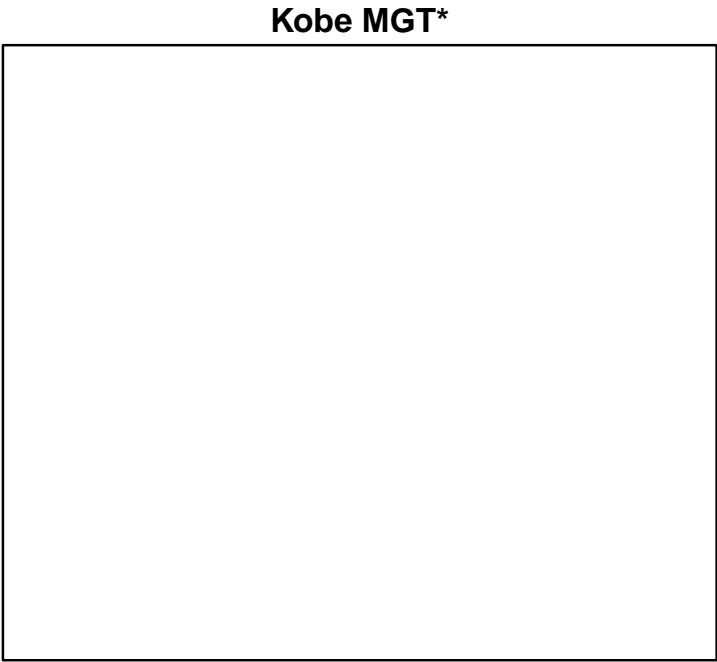
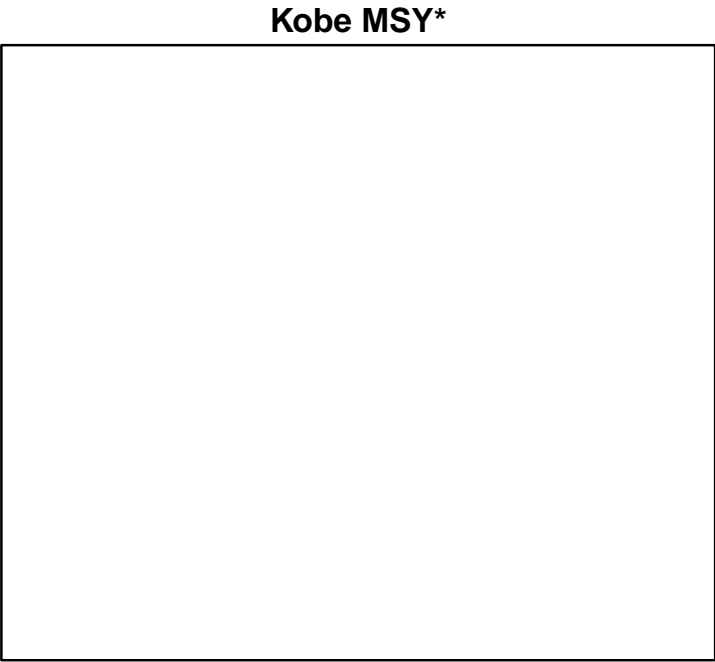


Norway pout ICES 3a-4 [NPOUTIIIa-IV]

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTIIIa-IV-1984-2023-ICESIMP2024
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	2011, 2013, 2014, 2017, 2019, 2020, 2021, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	65,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	42,573
Flim	-	-	-
ERlim	-	-	-

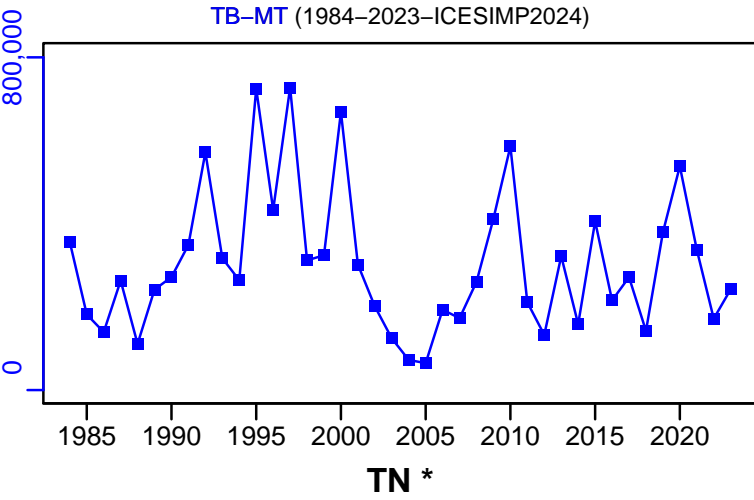
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	241,655	-	-
SSB	SSB-MT	2023	78,191	-	-
TN	-	-	-	-	-
R	R-E00	2023	26,260,000	-	0
F	F-1/yr	2023	0.319	-	1 to 2
ER	ER-calc-ratio	2023	0.066	-	-
TC	TC-MT	2017	30,100		
TL	TL-MT	2023	16,046		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	2.338		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



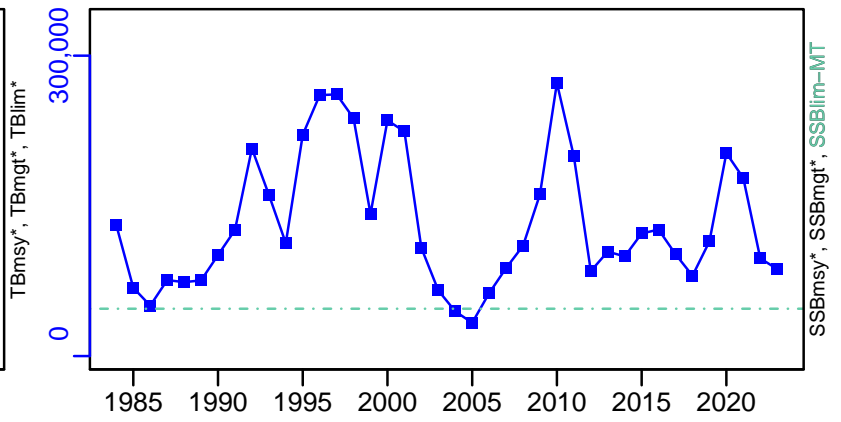
◆ Start Year ◆ End Year * No Data

Norway pout ICES 3a-4 [NPOUTIIIa-IV]

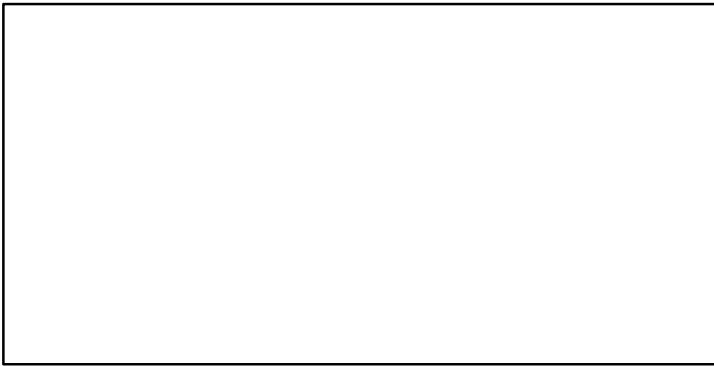
TB-MT (1984-2023-ICESIMP2024)



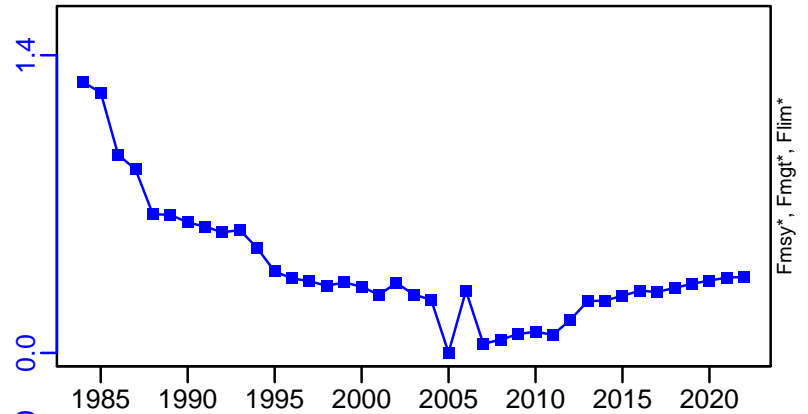
SSB-MT (1984-2023-ICESIMP2024)



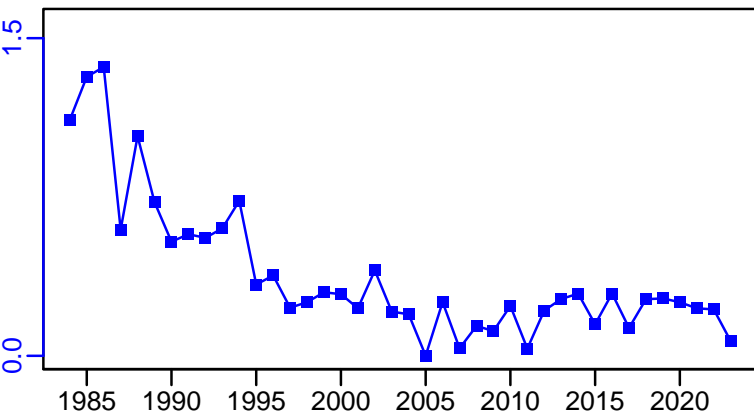
TN *



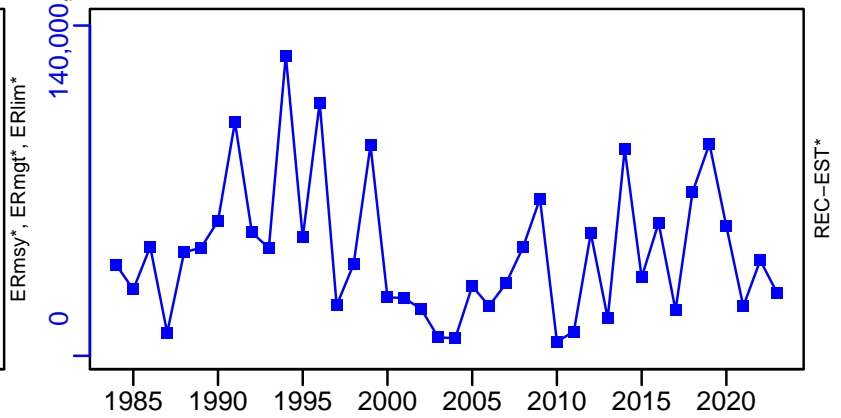
F-1/yr (1984-2023-ICESIMP2024)



ER-calc-ratio (1984-2023-ICESIMP2024)

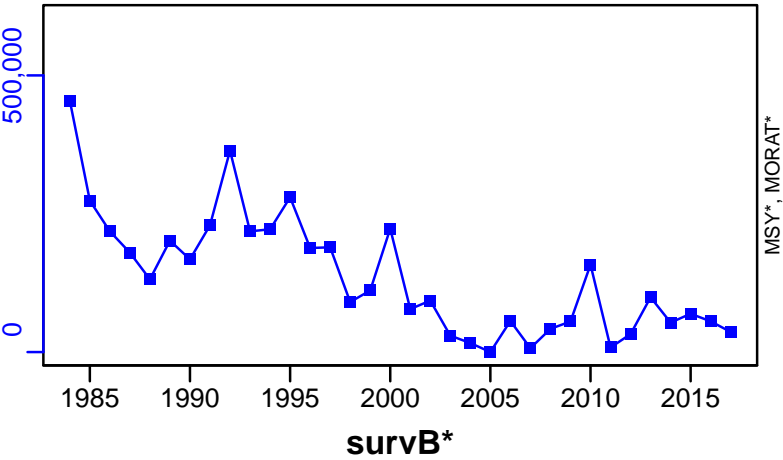


R-E00 (1984-2023-ICESIMP2024)



Norway pout ICES 3a-4 [NPOUTIIIa-IV]

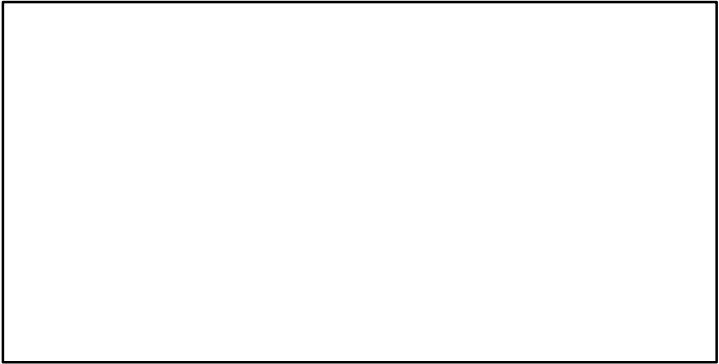
TC-MT, TL*, RecC* (1984-2017-ICESIMP2018)



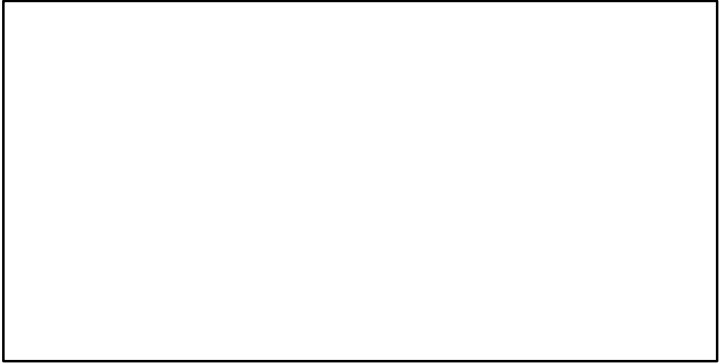
TAC*, Cpair*, Cadv*



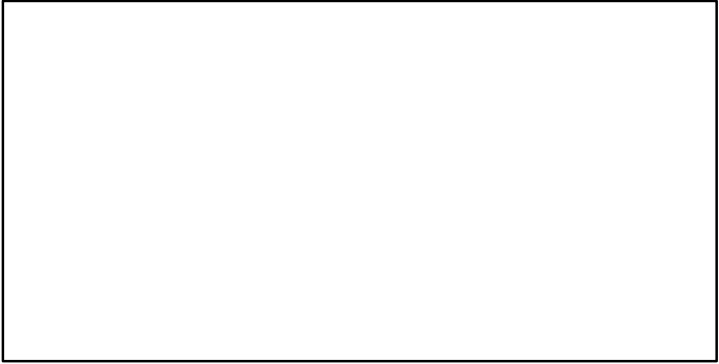
CPUE*



EFFORT*



CdivMSY*

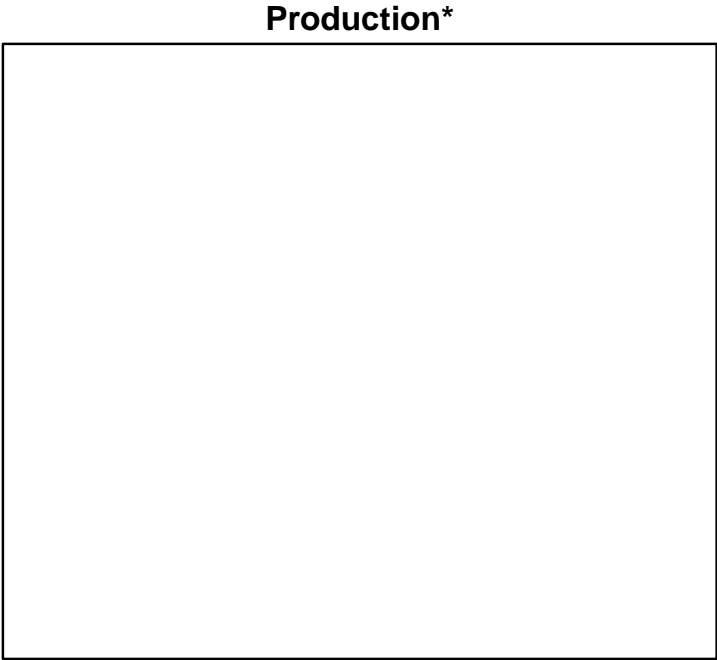
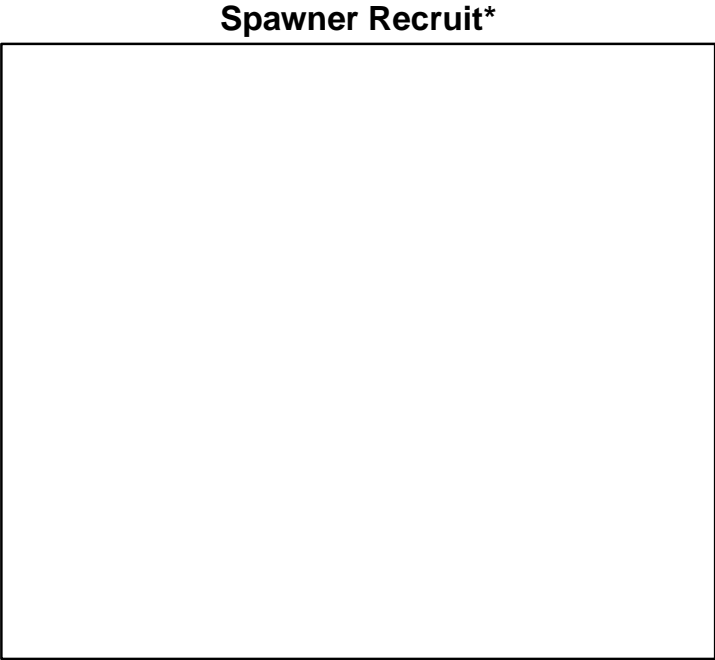
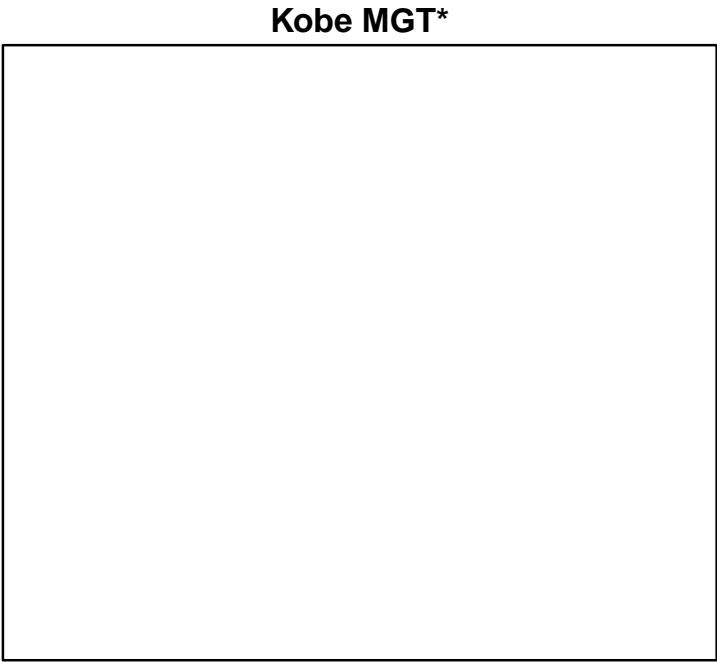
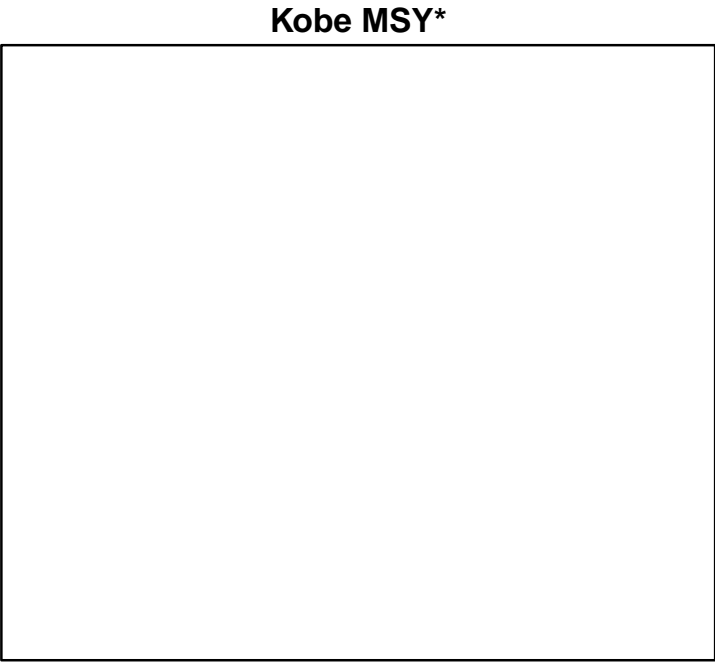


Norway pout West of Scotland [NPOUTVIa]

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTVIa-1970-2017-ICESIMP2021
Area	West of Scotland
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, 2017

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

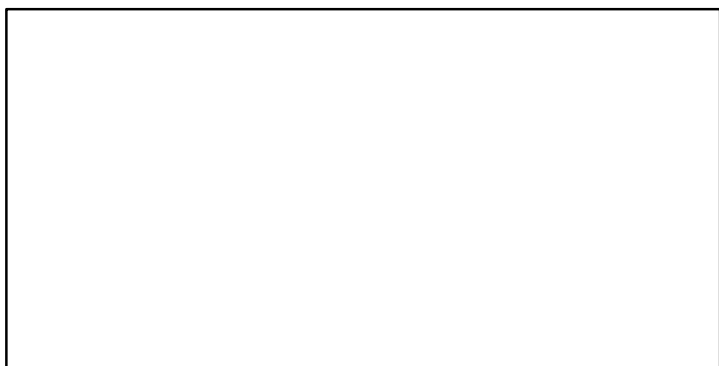
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	13		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



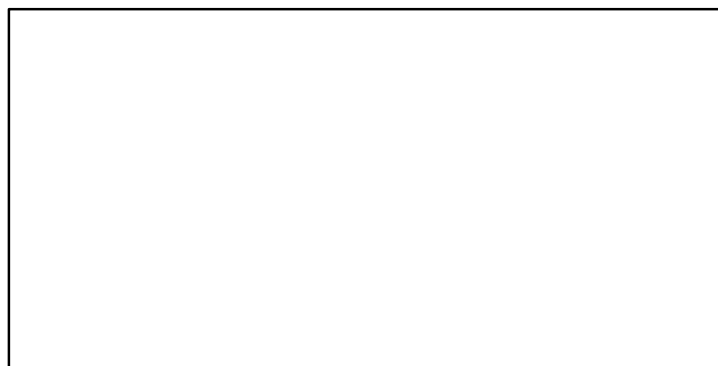
◆ Start Year ◆ End Year * No Data

Norway pout West of Scotland [NPOUTVla]

TB*



SSB*



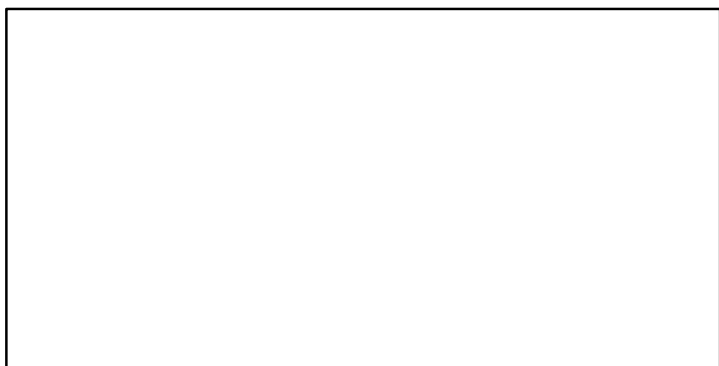
TN *



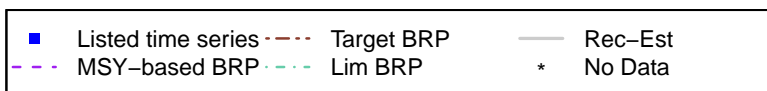
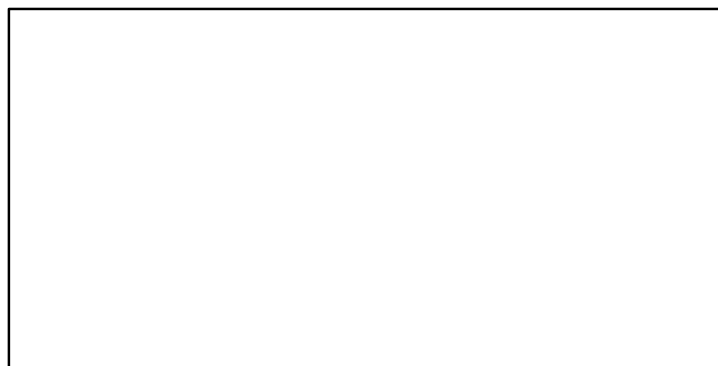
F*



ER*



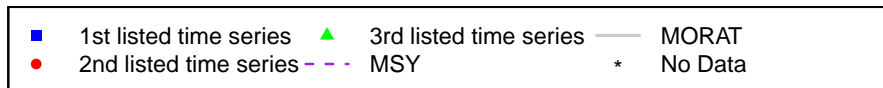
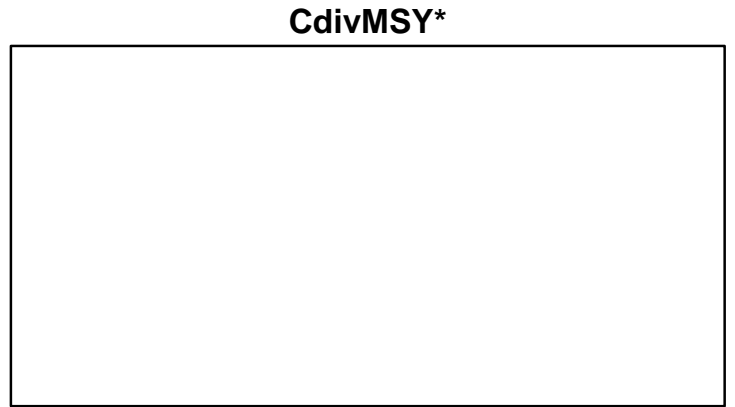
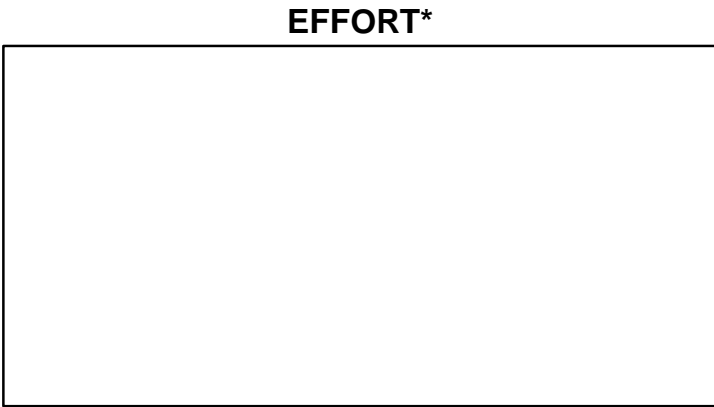
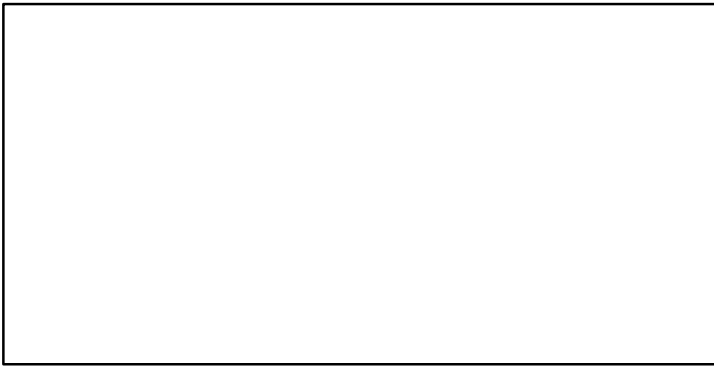
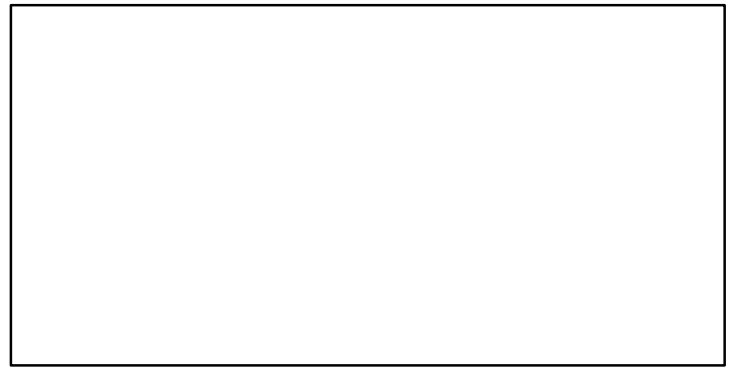
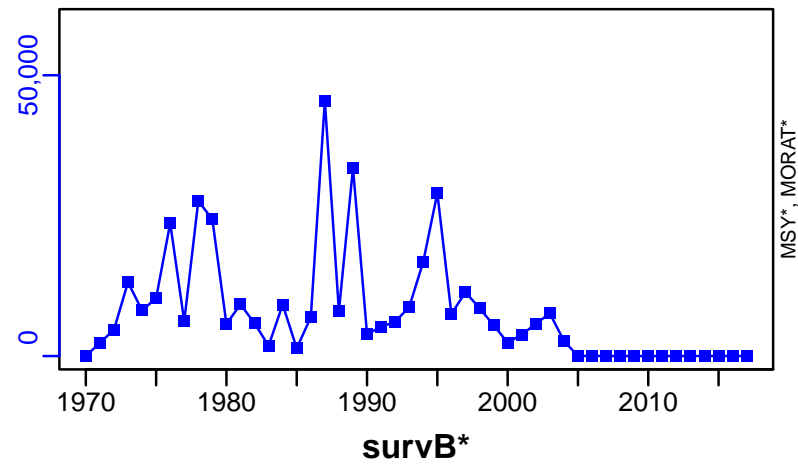
Recruits*



Norway pout West of Scotland [NPOUTVla]

TL-MT, TC*, RecC* (1970–2017–ICESIMP2021)

TAC*, Cpair*, Cadv*



Patagonian cod Southern Argentina [PATCODARGS]

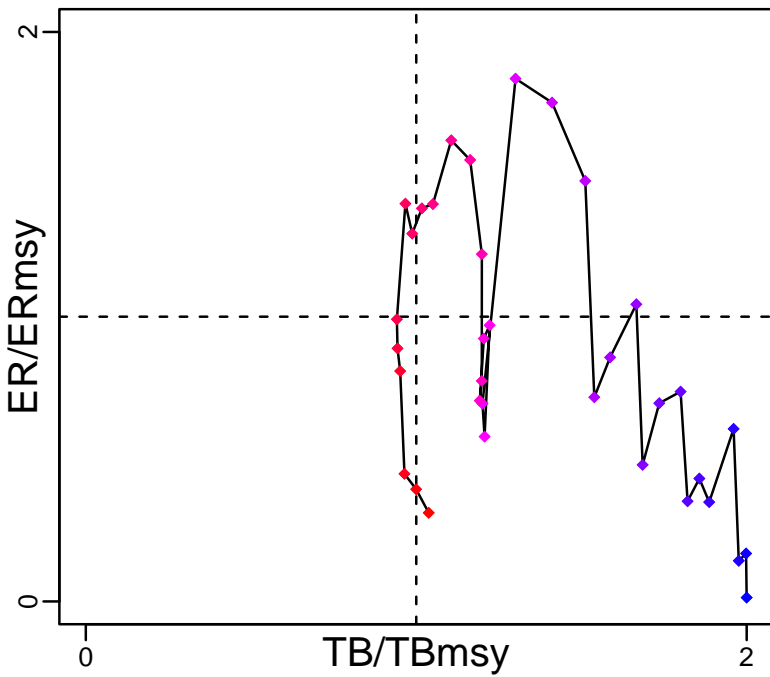
Metadata	
Scientific Name	Salilota australis
Current Assess ID	INIDEP-PATCODARGS-1984-2020-Parma
Area	Southern Argentina
Management Authority	Consejo Federal Pesquero, Argentina national management
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero
Asmts in RAM	2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2020	100,734
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2020	0.066
TBmgt	TBmgt-MT	2020	90,660
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2020	201,468
SSB0	-	-	-
MSY	MSY-MT	2020	6478
M	-	-	-
TBlim	TBlim-MT	2020	60,440
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

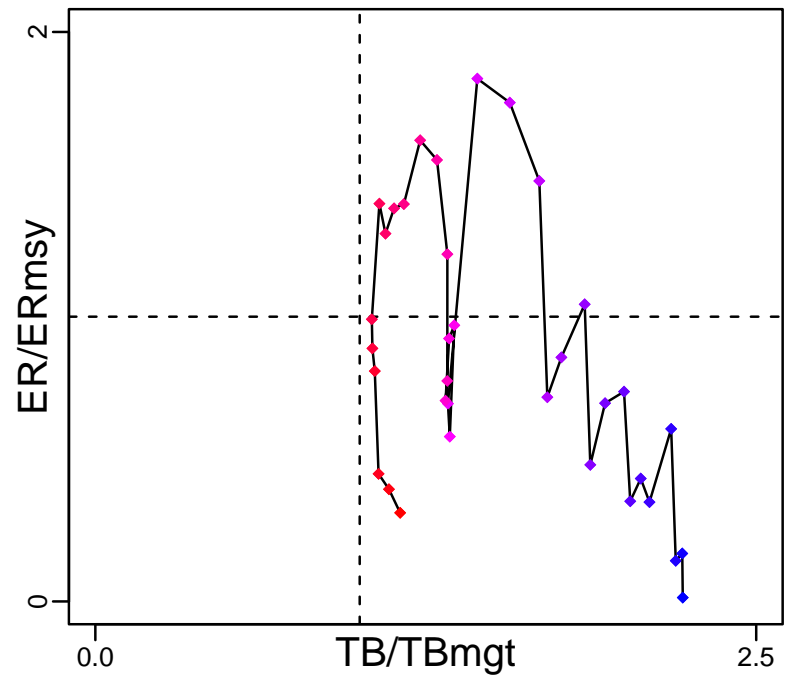
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	108,844	-	1+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.021	Both	-
TC	TC-MT	2020	2164		
TL	TL-MT	2020	2164		
TB/TBmsy	TB-MT/TBmsy-MT	2020	1.081		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.311		
TB/TBmgt	TB-MT/TBmgt-MT	2020	1.201		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Patagonian cod Southern Argentina [PATCODARGS]

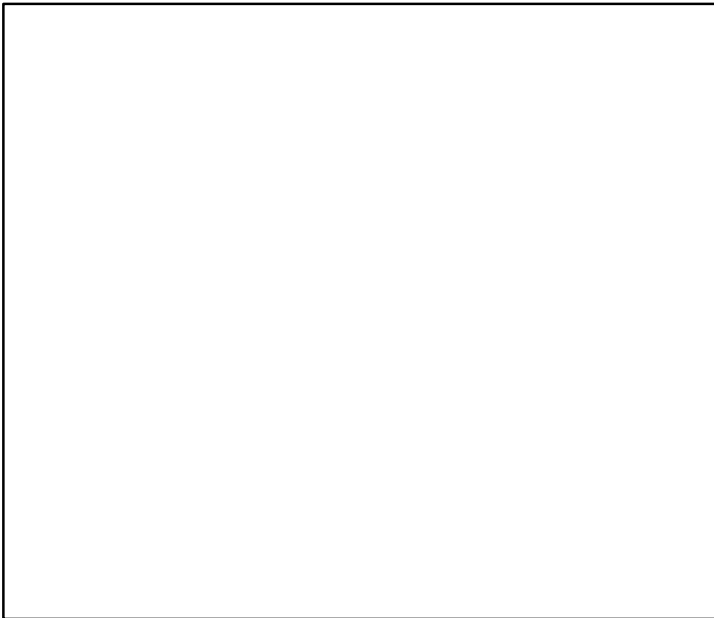
Kobe MSYpref (1984–2020–Parma)



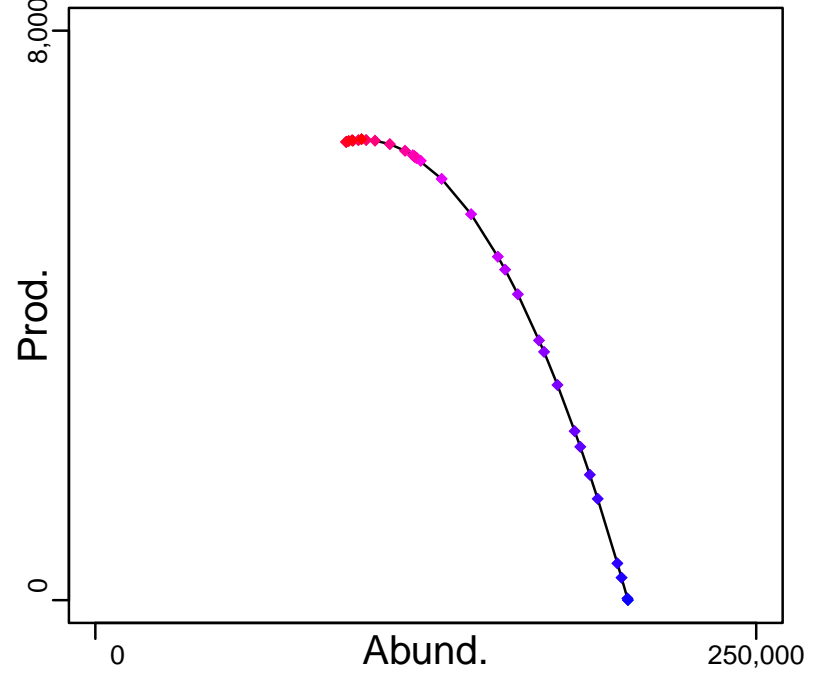
Kobe MGTpref (1984–2020–Parma)



Spawner Recruit*



Production (1984–2020–Parma)

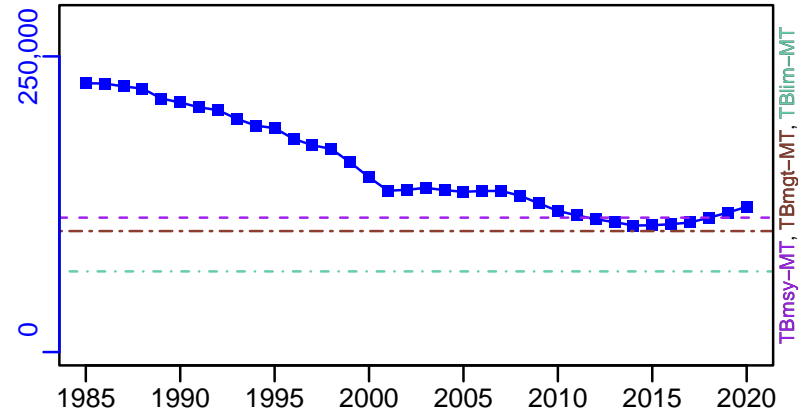


◆ Start Year ◆ End Year * No Data

Patagonian cod Southern Argentina [PATCODARGS]

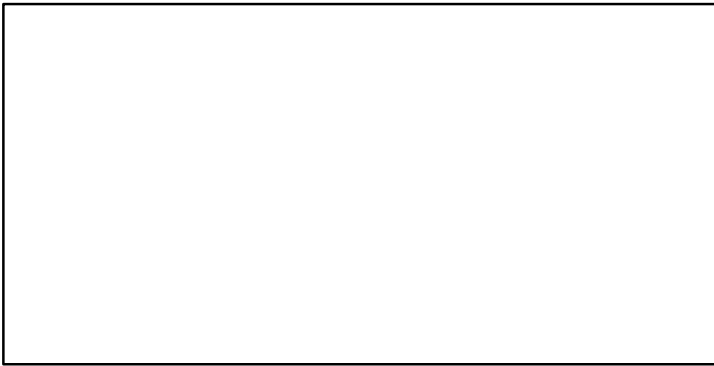
TB-MT (1984–2020–Parma)

SSB*



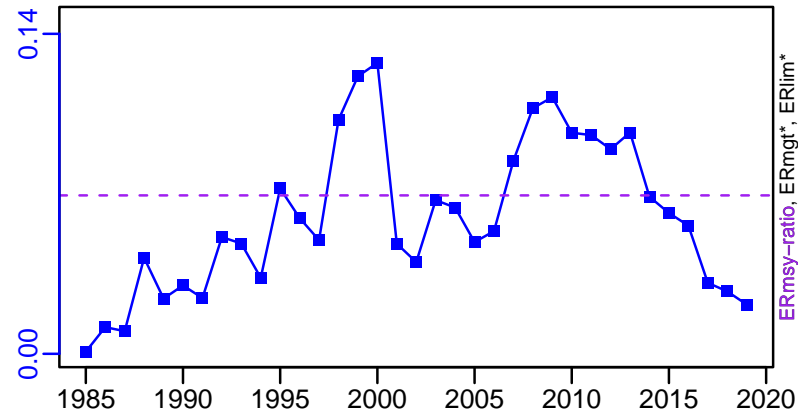
TN *

F*



ER-ratio (1984–2020–Parma)

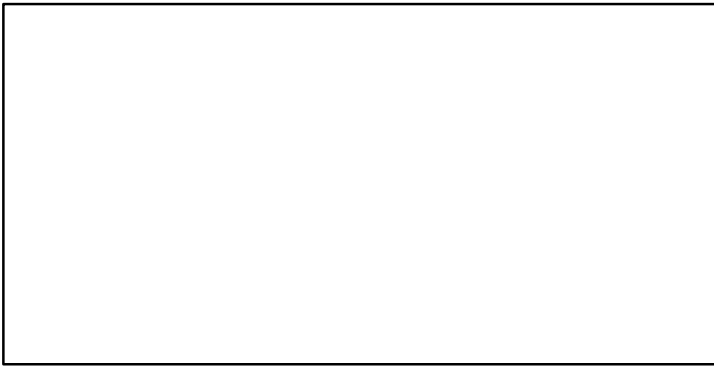
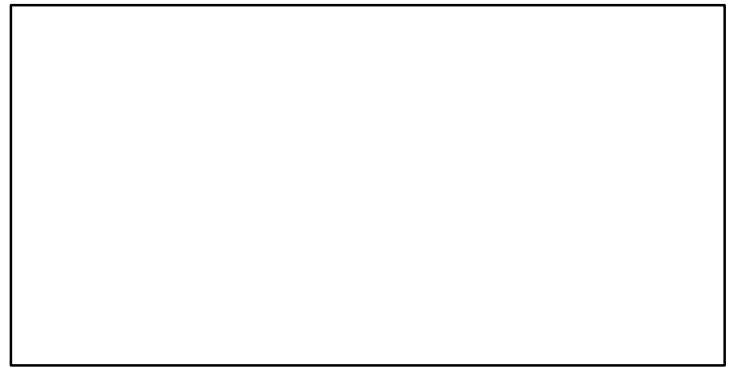
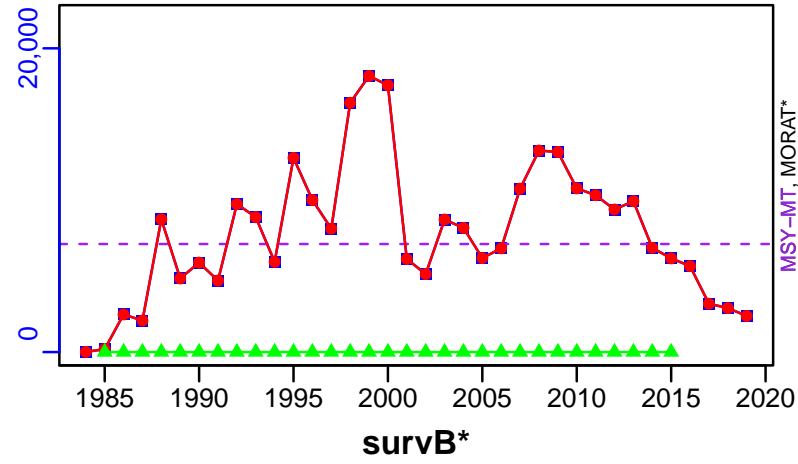
Recruits*



Patagonian cod Southern Argentina [PATCODARGS]

TC-MT, TL-MT, RecC-MT (1984–2020–Parma)

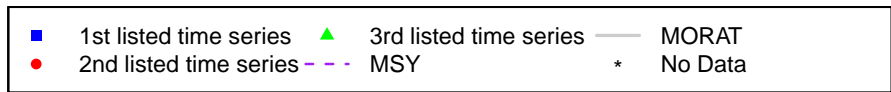
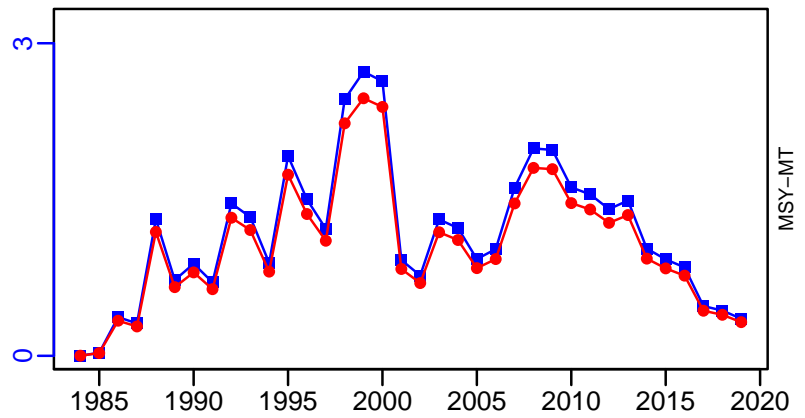
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1984–2020–Parma)



Patagonian grenadier Central-Southern Chile [PATGRENADIERCH]

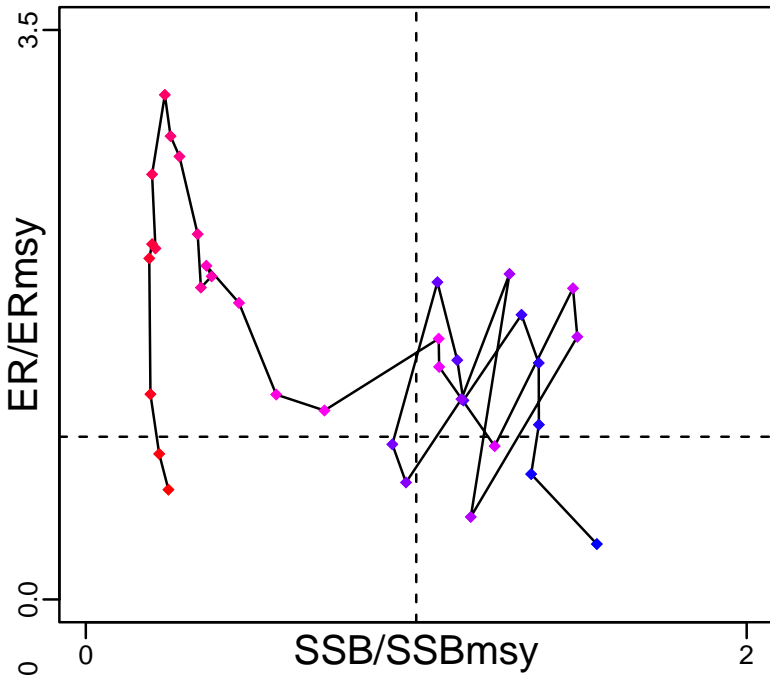
Metadata	
Scientific Name	Macruronus magellanicus
Current Assess ID	IFOPCH-PATGRENADIERCH-1985-2020-Quiroz
Area	Central-Southern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2012, 2015, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2020	489,984
Fmsy	-	-	-
ERmsy	ERmsy-extr-ratio	2020	0.173
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2015	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

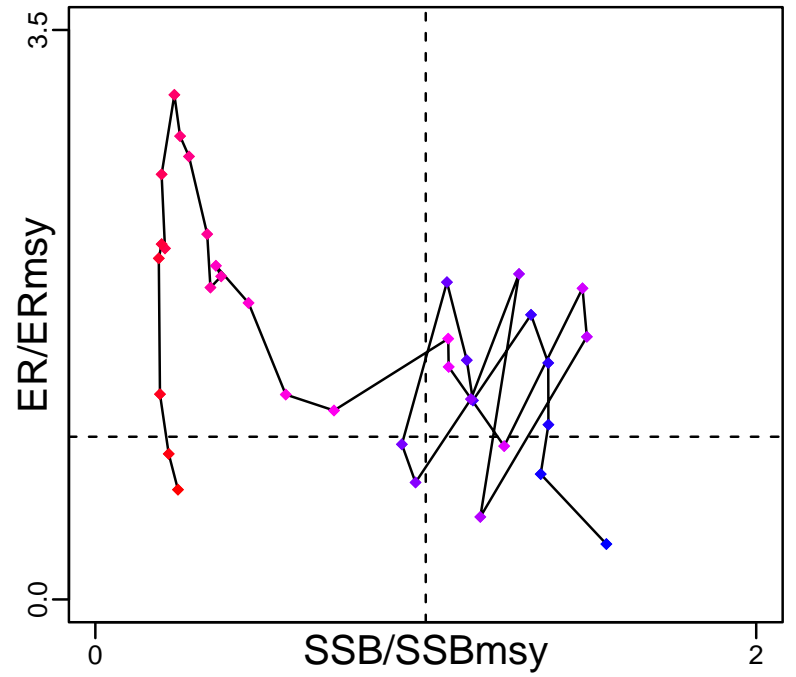
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	359,318	-	-
SSB	SSB-MT	2020	150,652	-	-
TN	-	-	-	-	-
R	R-E00	2020	584,268,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2020	0.06	-	-
TC	TC-MT	2020	17,902		
TL	TL-MT	2020	17,902		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	0.25		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2020	0.675		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Patagonian grenadier Central–Southern Chile [PATGRENADIERCH]

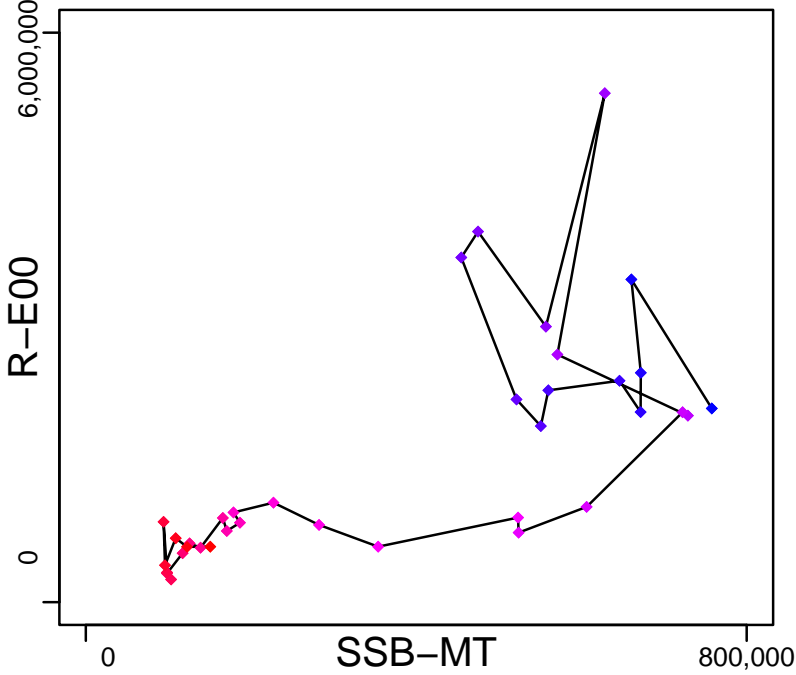
Kobe MSYpref (1985–2020–Quiroz)



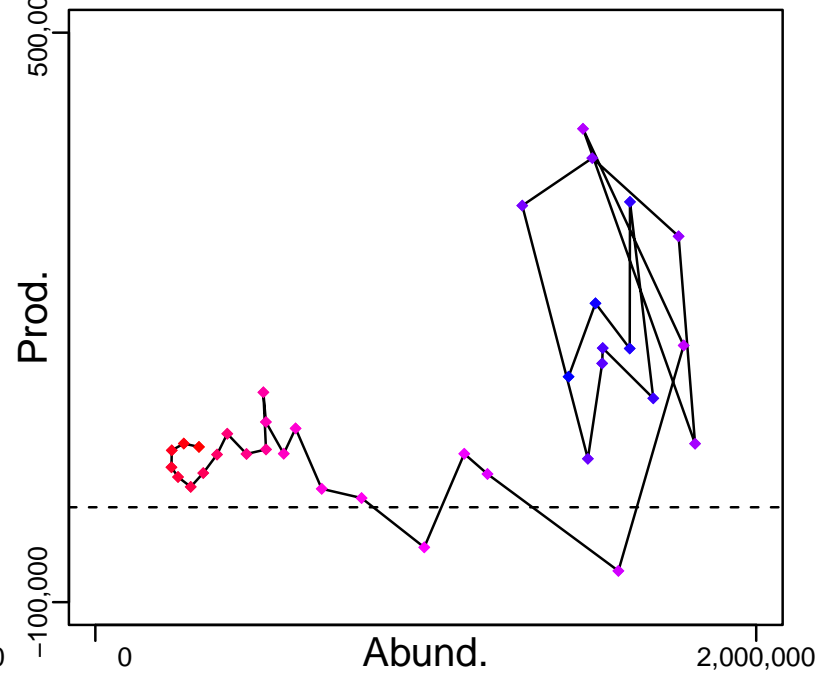
Kobe MGTpref (1985–2020–Quiroz)



Spawner Recruit (1985–2020–Quiroz)



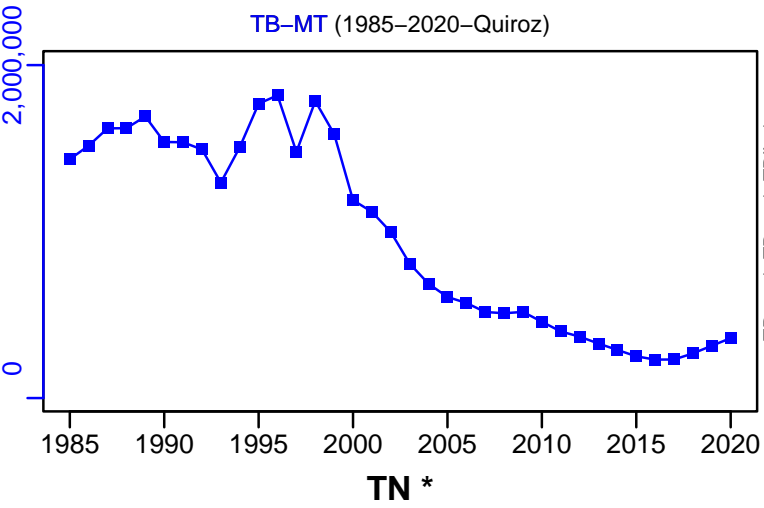
Production (1985–2020–Quiroz)



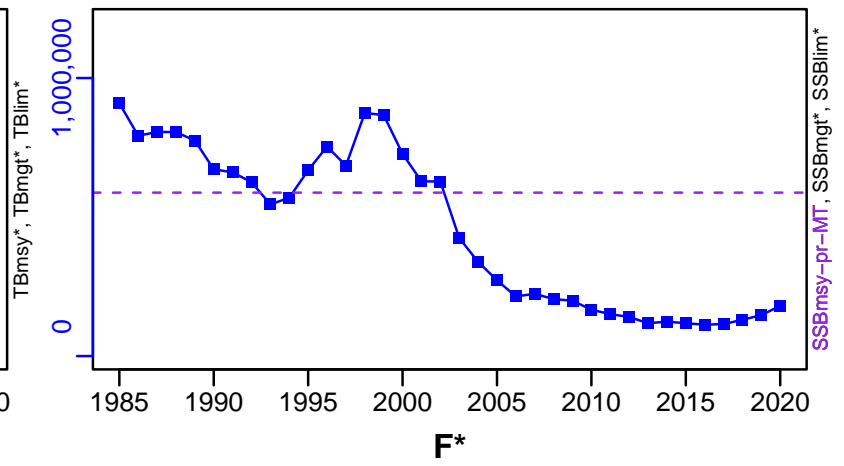
◆ Start Year ◆ End Year * No Data

Patagonian grenadier Central–Southern Chile [PATGRENIERCH]

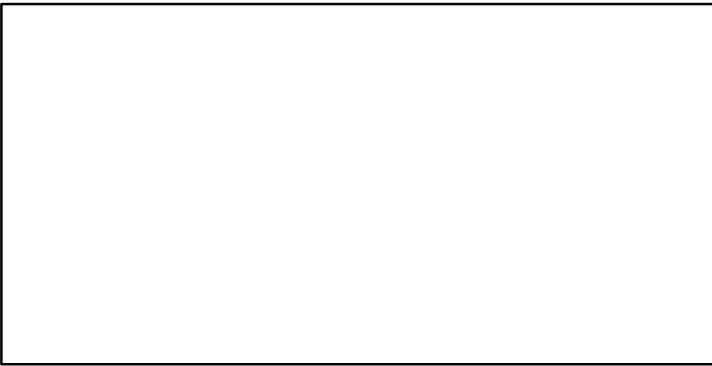
TB–MT (1985–2020–Quiroz)



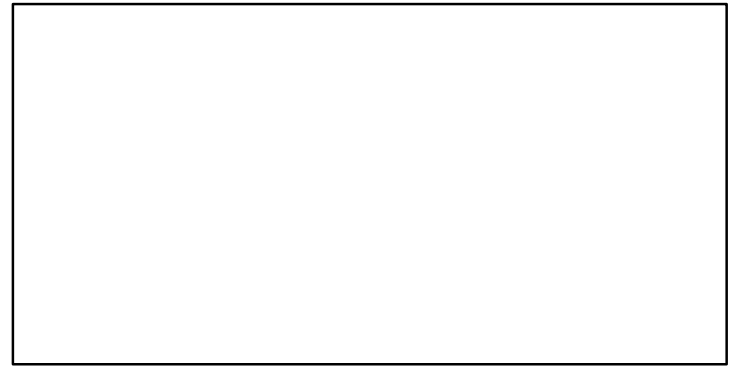
SSB–MT (1985–2020–Quiroz)



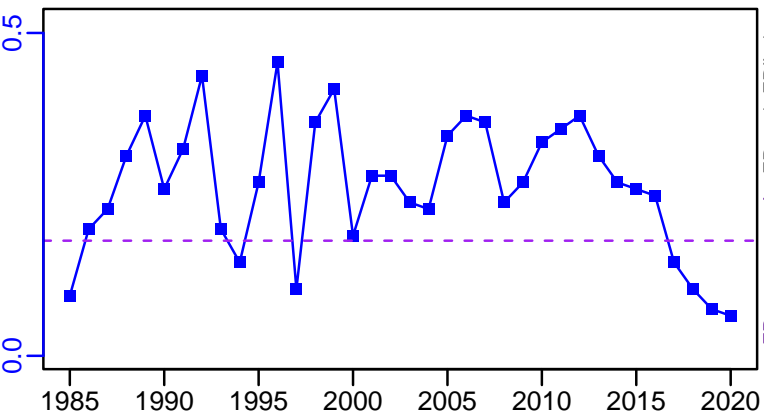
TN *



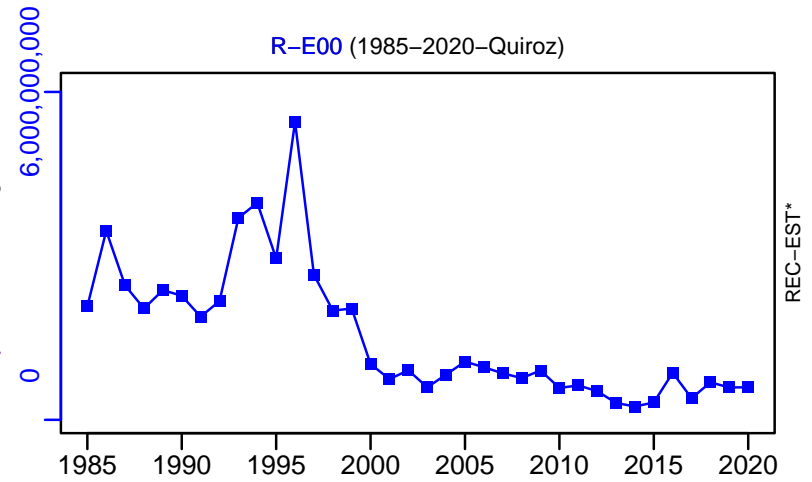
F*



ER–ratio (1985–2020–Quiroz)

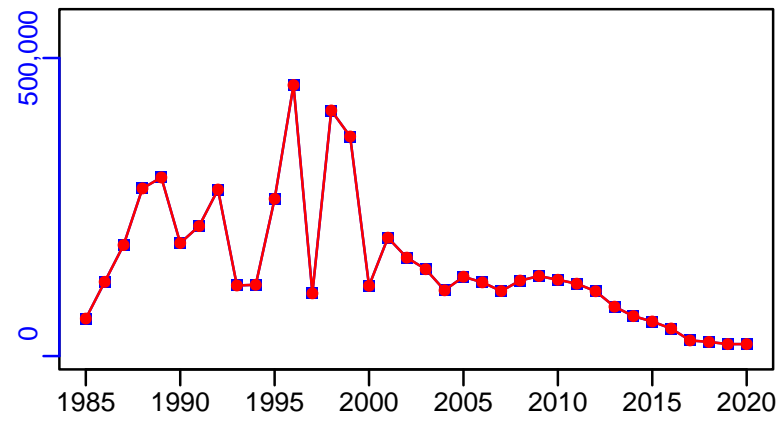


R–E00 (1985–2020–Quiroz)

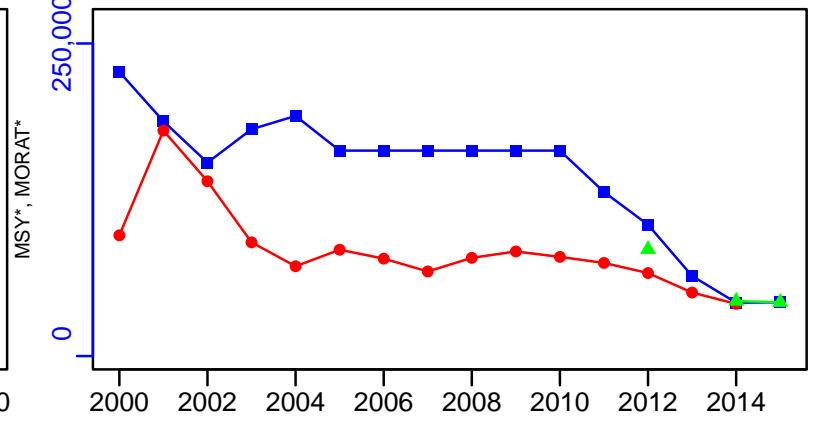


Patagonian grenadier Central–Southern Chile [PATGRENADIERCH]

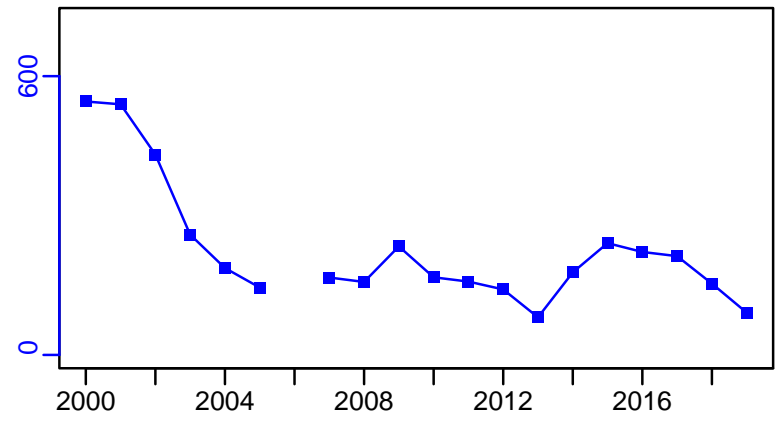
TC–MT, TL–MT, RecC* (1985–2020–Quiroz)



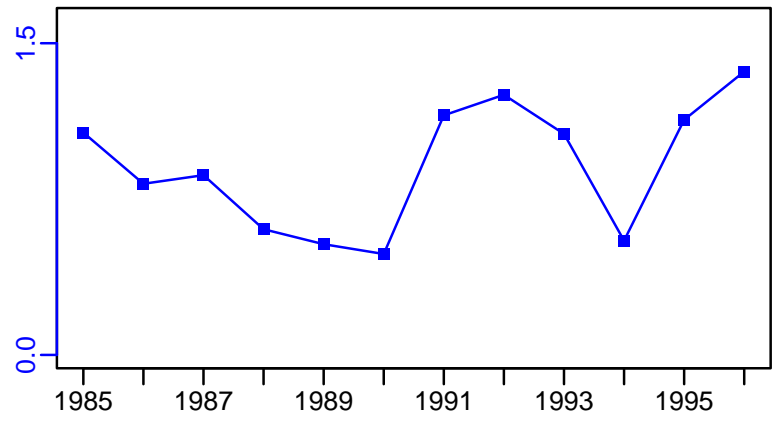
TAC–MT, Cpair–MT, Cadvised–MT (1985–2020–Quiroz)



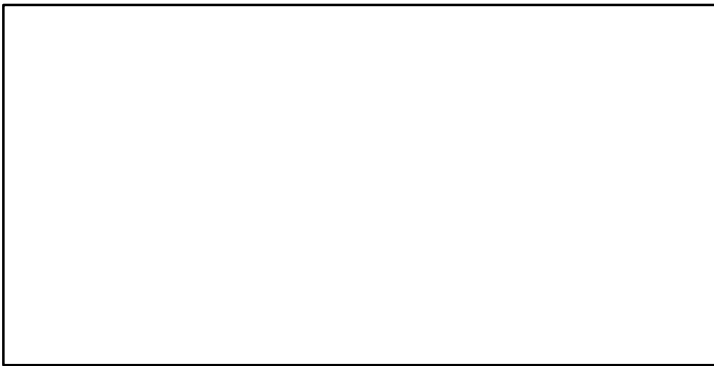
survB_absolute–MT (1985–2020–Quiroz)



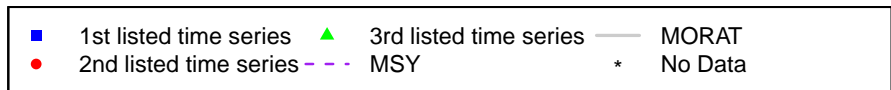
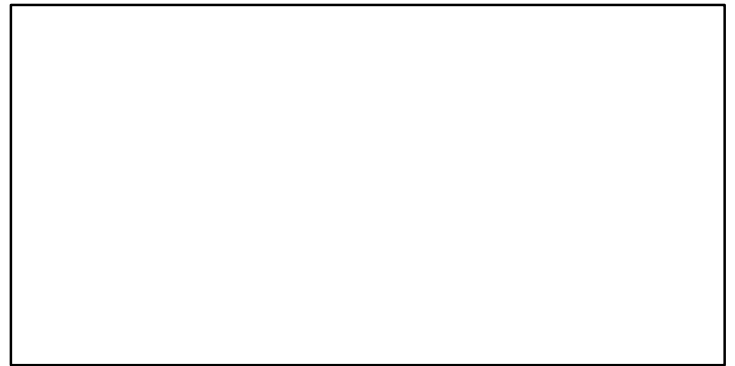
CPUE–1–index (1985–2020–Quiroz)



EFFORT*



CdivMSY*



Patagonian grenadier Southern Argentina [PATGRENADIERSARG]

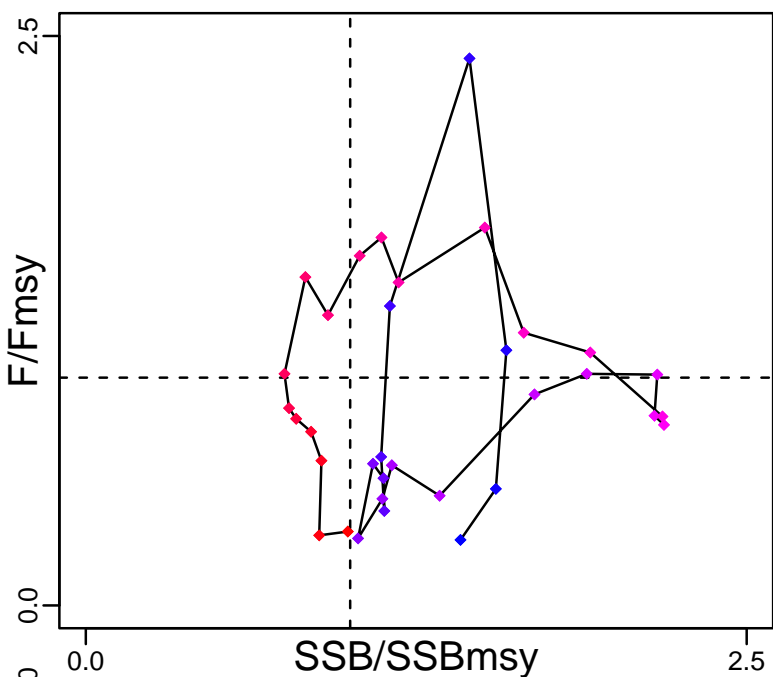
Metadata	
Scientific Name	Macruronus magellanicus
Current Assess ID	INIDEP-PATGRENADIERSARG-1983-2019-Parma
Area	Southern Argentina
Management Authority	Consejo Federal Pesquero, Argentina national management
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero
Asmts in RAM	2006, 2015, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2006	642,031
SSBmsy	SSBmsy-MT	2019	278,120
Fmsy	Fmsy-1/yr	2019	0.299
ERmsy	ERmsy-ratio	2006	0.206
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	198,474
Fmgt	Fmgt-1/yr	2019	0.215
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2019	496,186
MSY	MSY-MT	2019	78,761
M	M-1/yr	2019	0.35
TBlim	TBlim-MT	2006	415,041
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

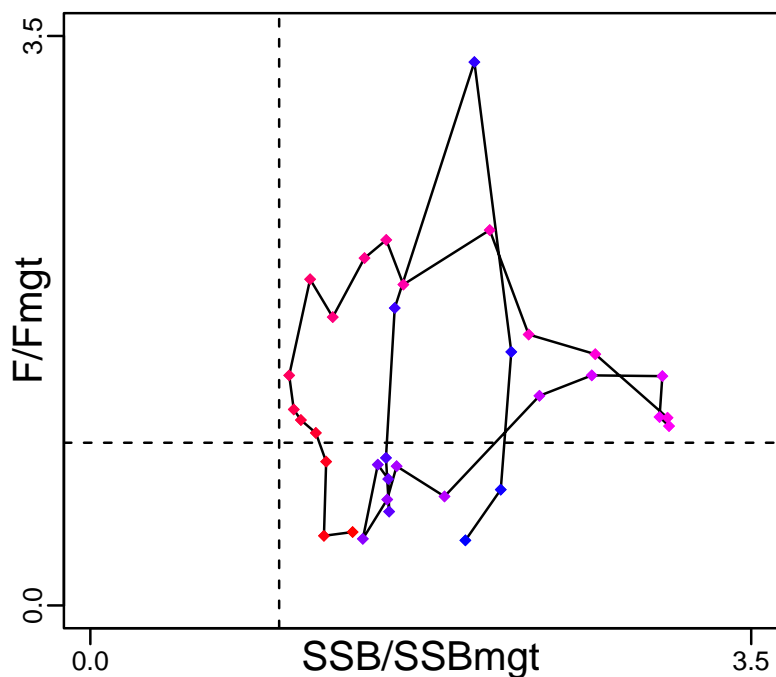
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	686,905	-	1+
SSB	SSB-MT	2019	275,663	-	2+
TN	-	-	-	-	-
R	R-E00	2019	239,478,000	-	1
F	F-1/yr	2019	0.097	-	3-11+
ER	ER-calc-ratio	2019	0.062	-	-
TC	TC-MT	2019	50,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2006	2.149		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.991		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.324		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	0.534		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.389		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.451		
ER/ERmgt	-	-	-		

Patagonian grenadier Southern Argentina [PATGRENADIERSARG]

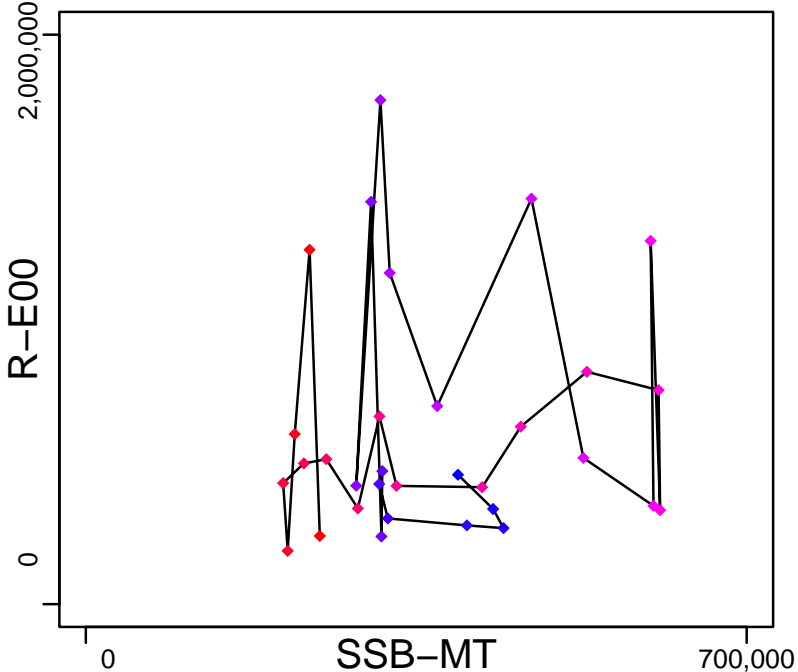
Kobe MSYpref (1983–2019–Parma)



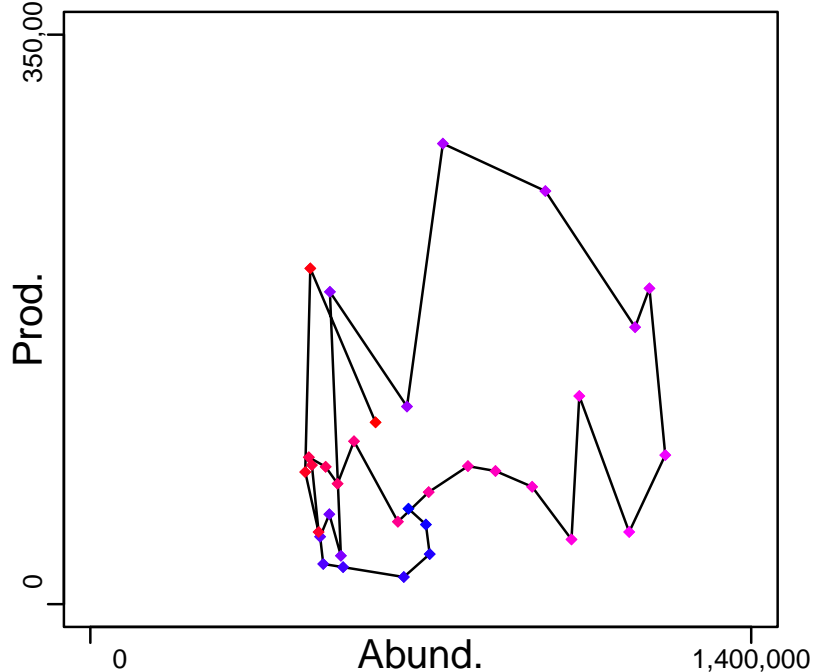
Kobe MGTpref (1983–2019–Parma)



Spawner Recruit (1983–2019–Parma)

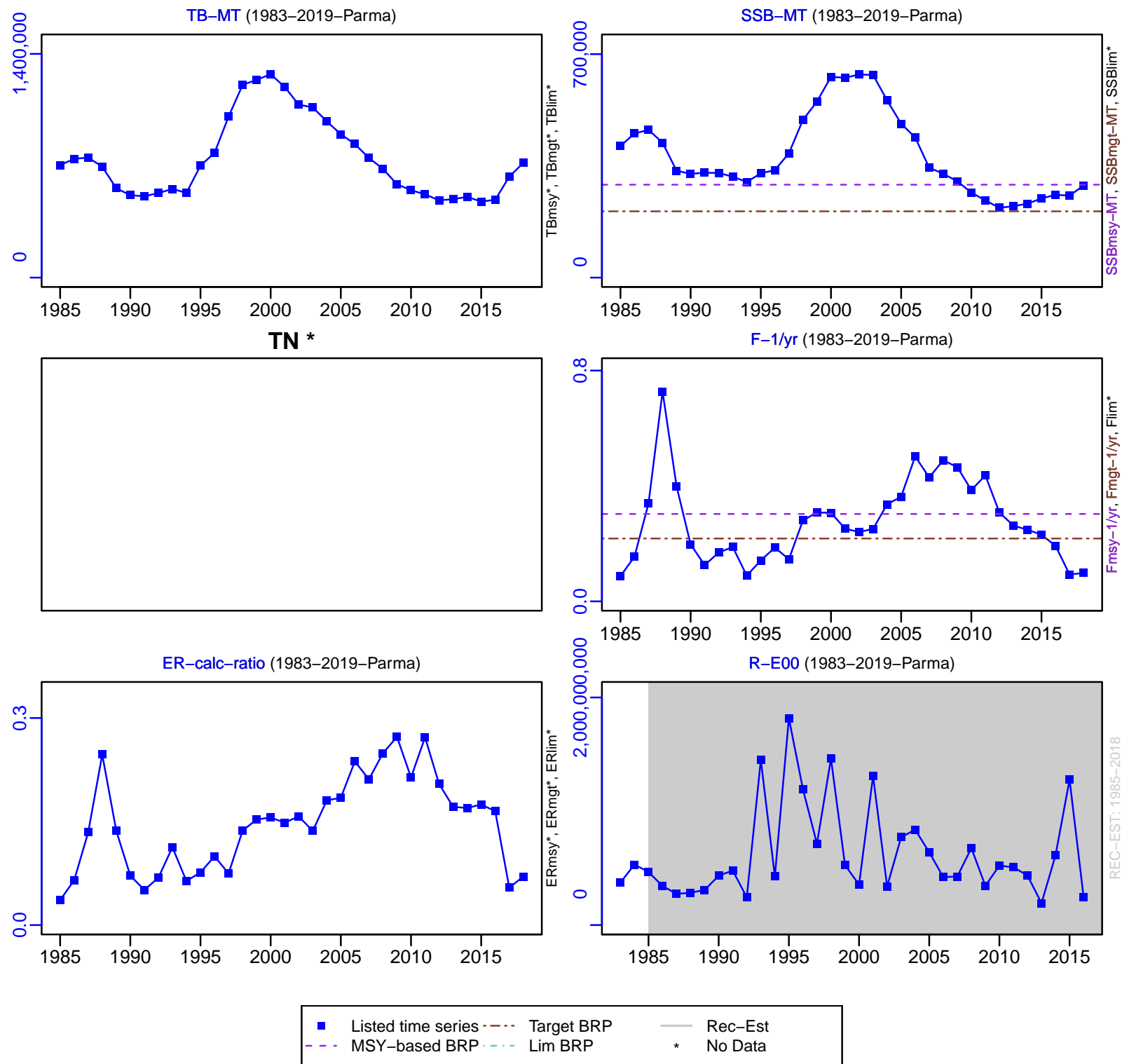


Production (1983–2019–Parma)



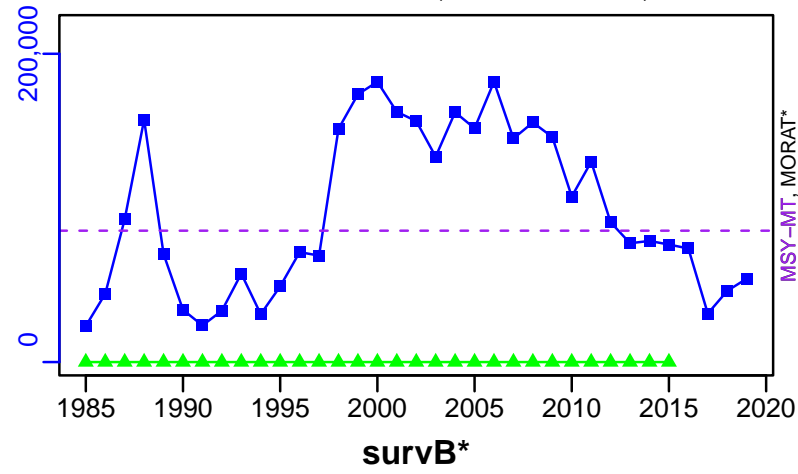
◆ Start Year ◆ End Year * No Data

Patagonian grenadier Southern Argentina [PATGRENADIERSARG]

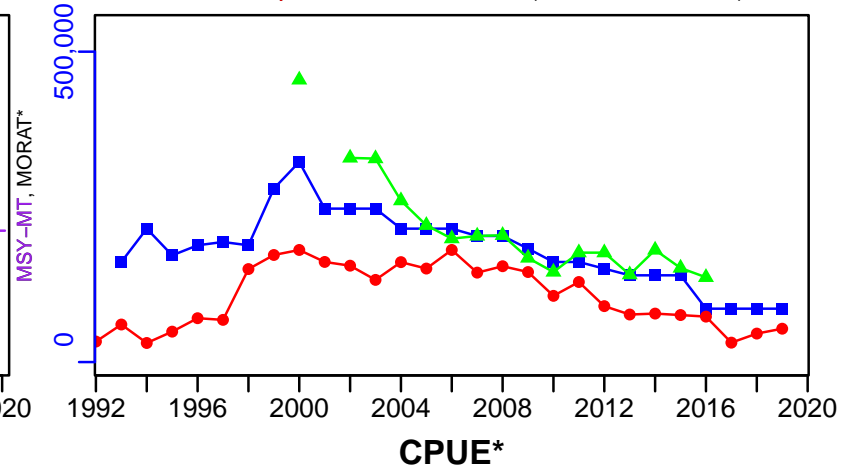


Patagonian grenadier Southern Argentina [PATGRENADIERSARG]

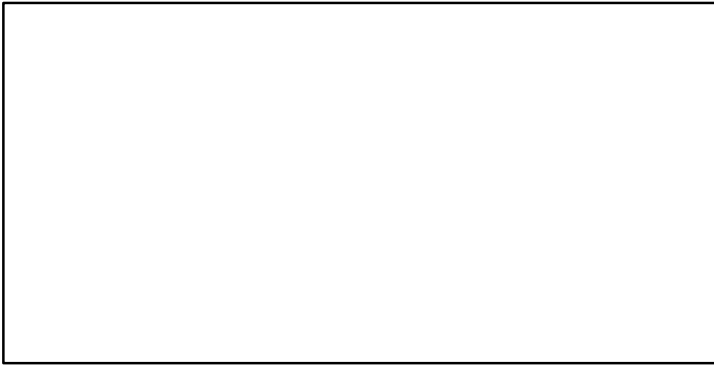
TC-MT, TL*, RecC-MT (1983-2019-Parma)



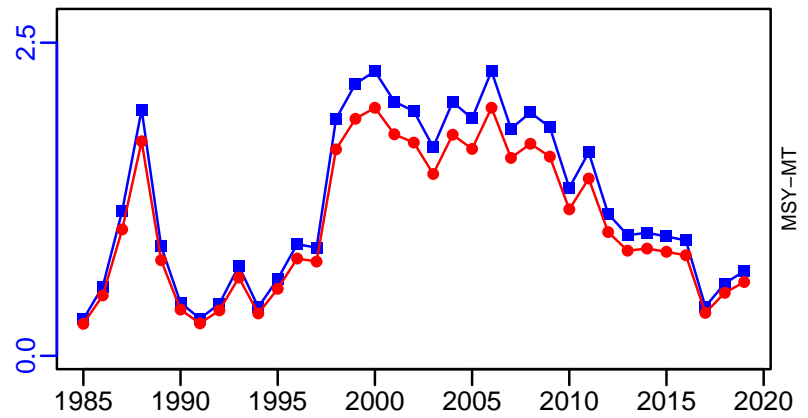
TAC-MT, Cpair-MT, Cadvised-MT (1983-2019-Parma)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1983-2019-Parma)



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

Pacific cod British Columbia Waters Area 5ABCD [PCOD5ABCD]

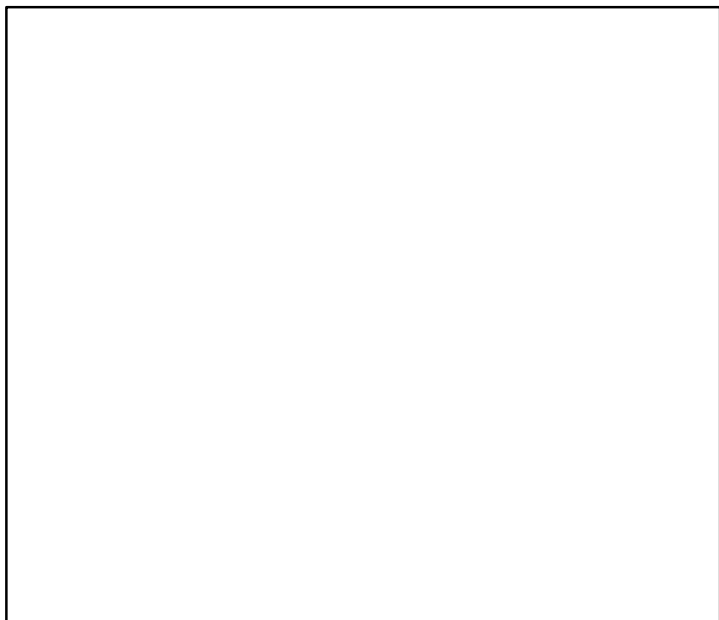
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	DFO-PAC-PCOD5ABCD-1953-2019-ASHBROOK
Area	British Columbia Waters Area 5ABCD
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	TBmgt-MT	2019	33,780
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2019	26,073
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2019	9762
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

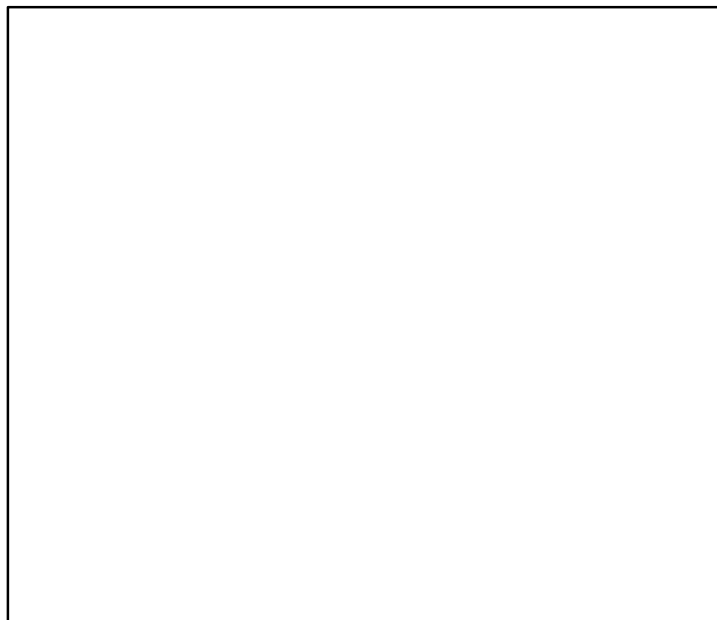
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	15,687	-	2+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,875,481	-	2+
F	-	-	-	-	-
ER	ER-calc-ratio	2019	0.016	-	-
TC	-	-	-		
TL	TL-MT	2019	215		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	TB-MT/TBmgt-MT	2019	0.464		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod British Columbia Waters Area 5ABCD [PCOD5ABCD]

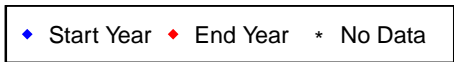
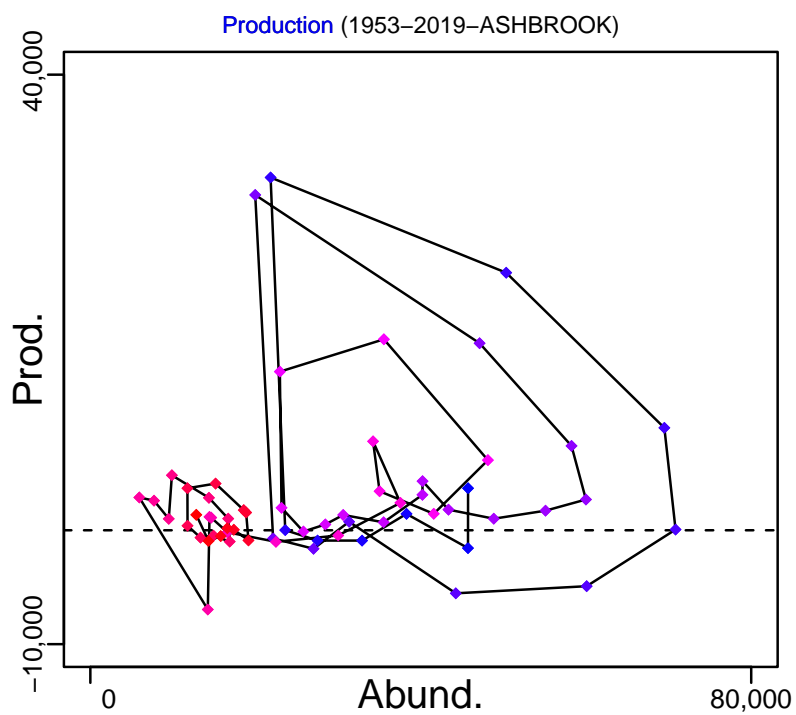
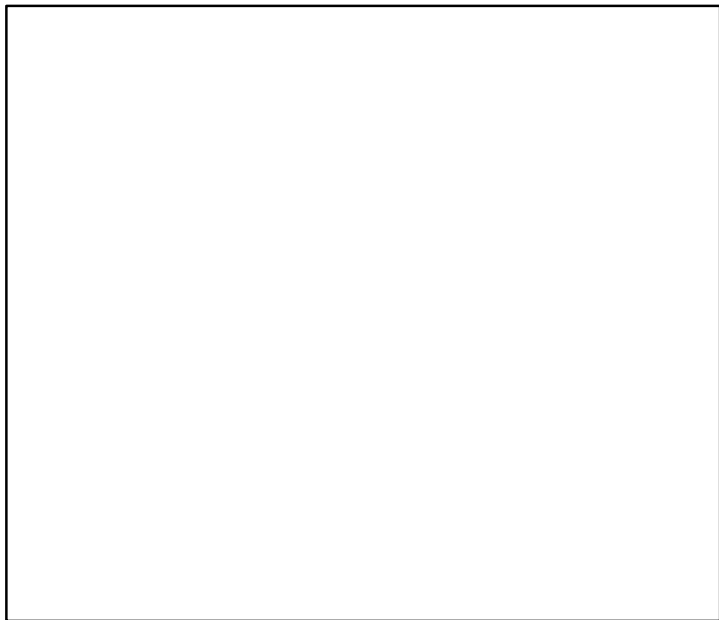
Kobe MSY*



Kobe MGT*



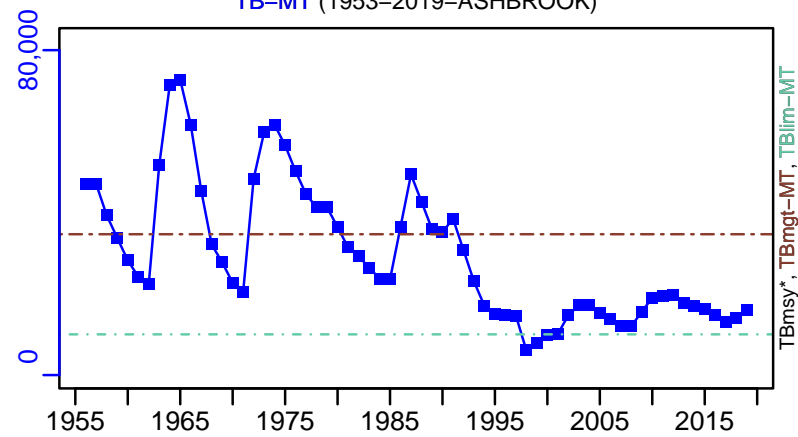
Spawner Recruit*



Pacific cod British Columbia Waters Area 5ABCD [PCOD5ABCD]

TB-MT (1953–2019–ASHBROOK)

SSB*



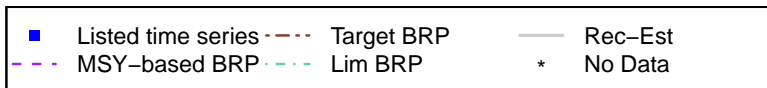
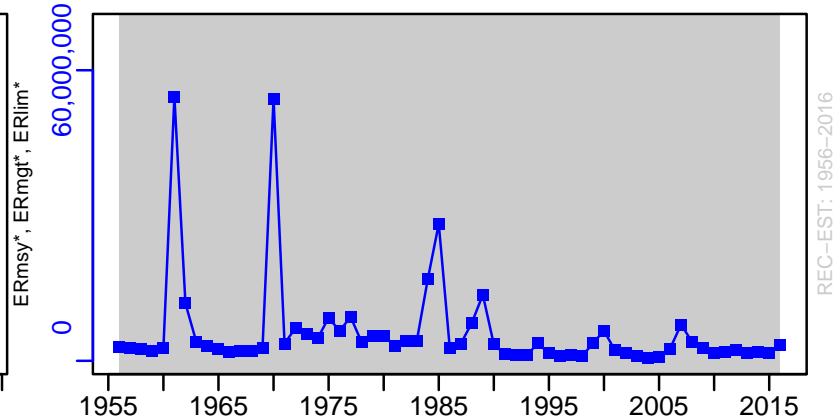
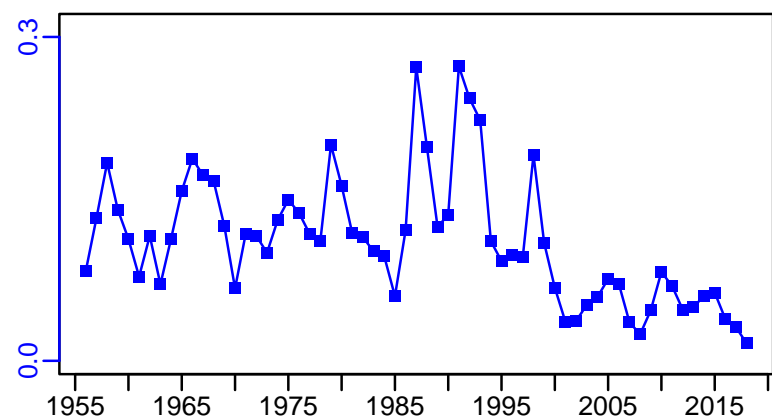
TN *

F*



ER-calc-ratio (1953–2019–ASHBROOK)

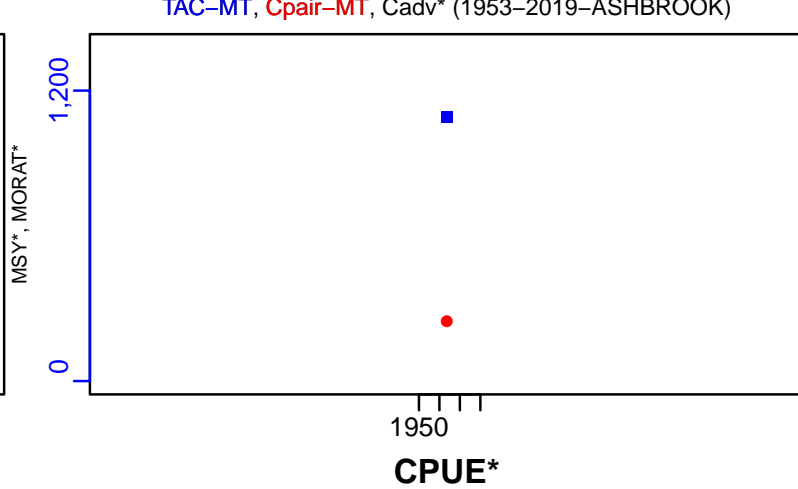
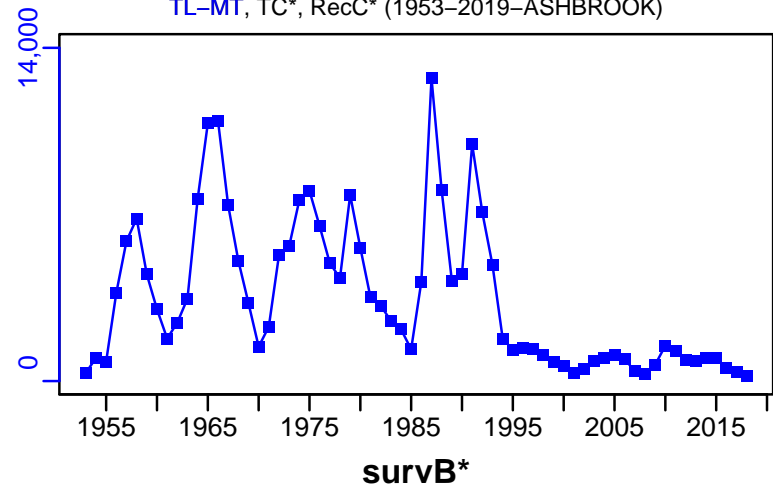
R-E00 (1953–2019–ASHBROOK)



Pacific cod British Columbia Waters Area 5ABCD [PCOD5ABCD]

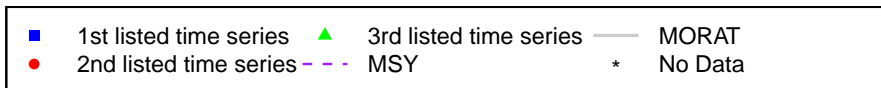
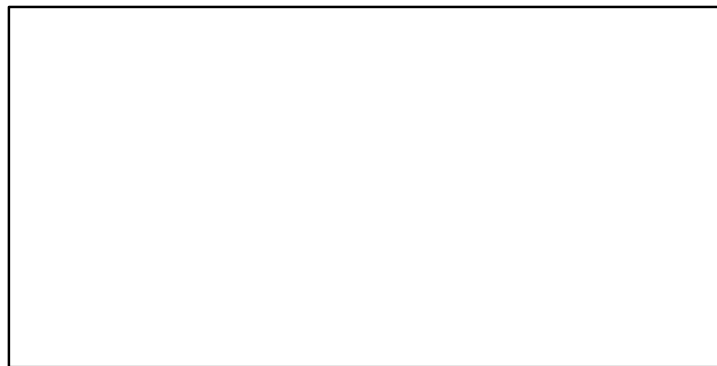
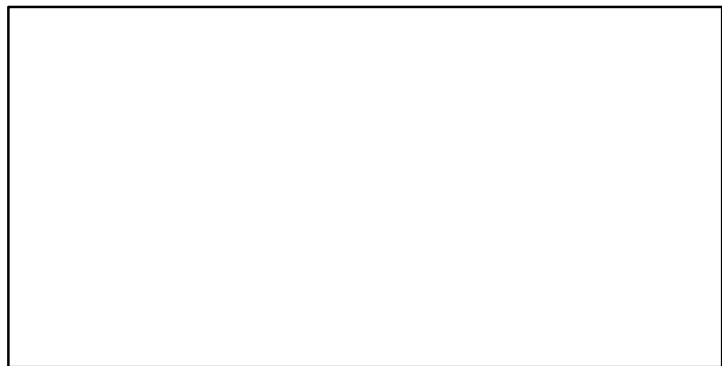
TL-MT, TC*, RecC* (1953-2019-ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1953-2019-ASHBROOK)



EFFORT*

CdivMSY*

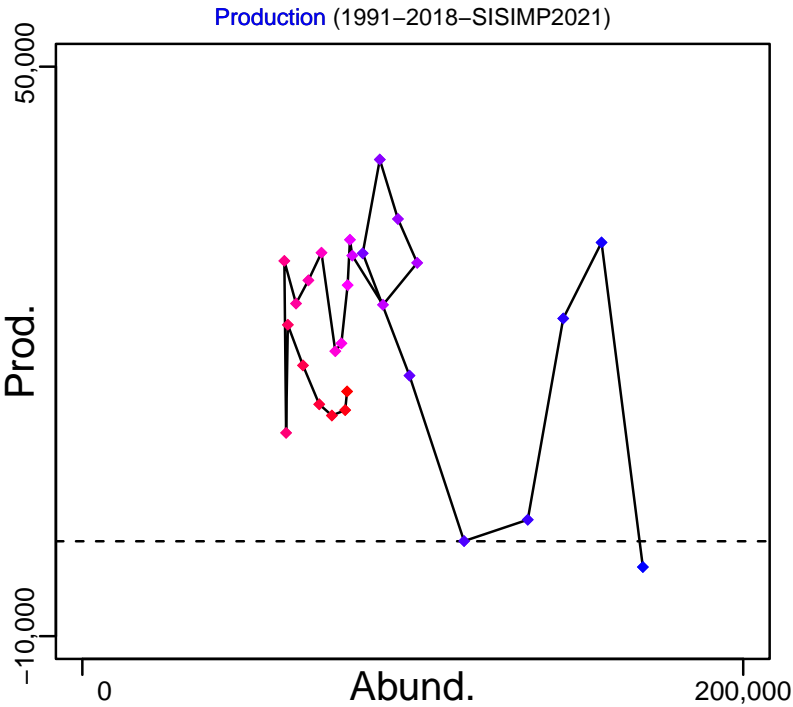
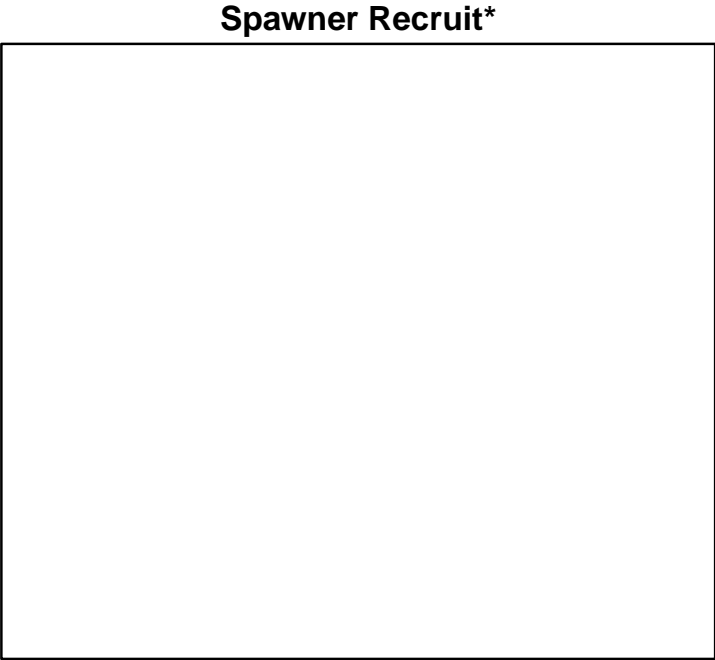
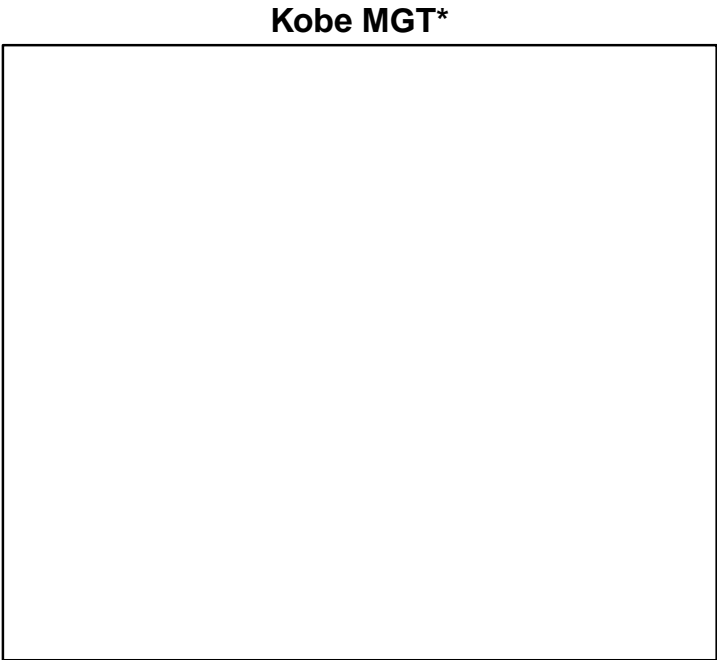
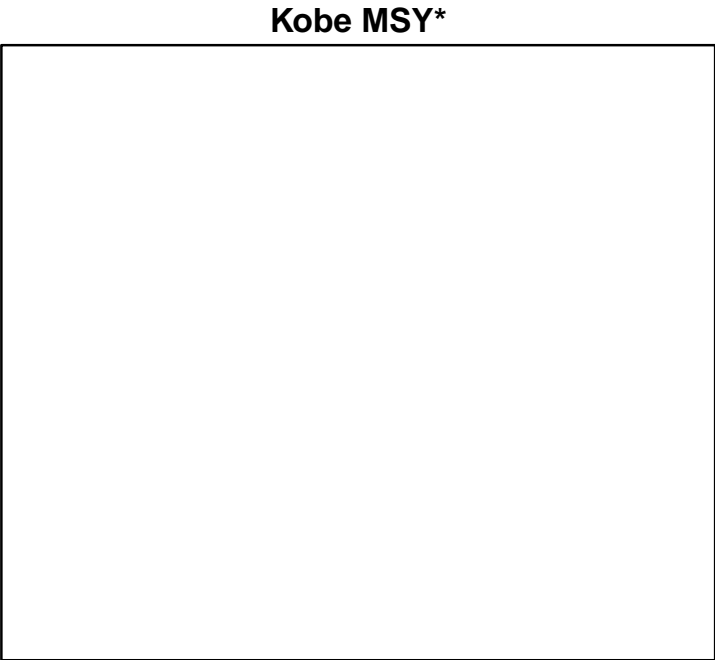


Pacific cod Aleutian Islands [PCODAI]

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

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

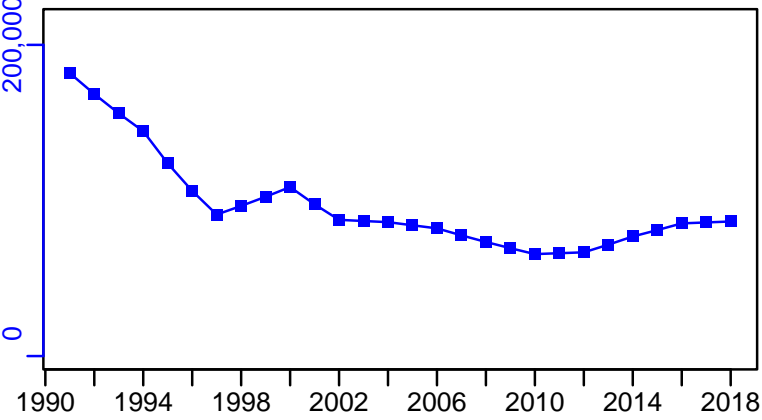
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	80,696	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.242	-	-
TC	TC-MT	2020	19,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt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



◆ Start Year ◆ End Year * No Data

Pacific cod Aleutian Islands [PCODAI]

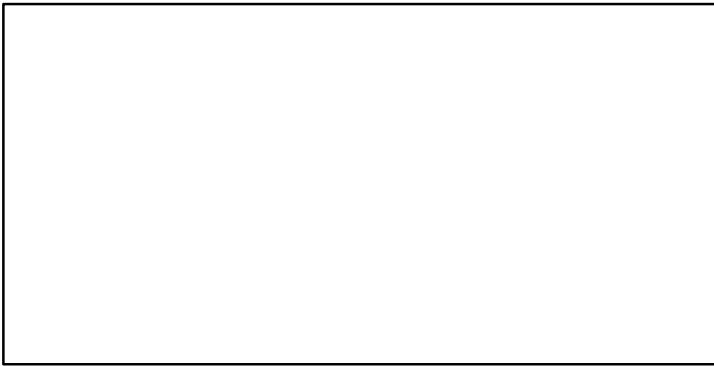
TB-MT (1991–2018–SISIMP2021)



SSB*



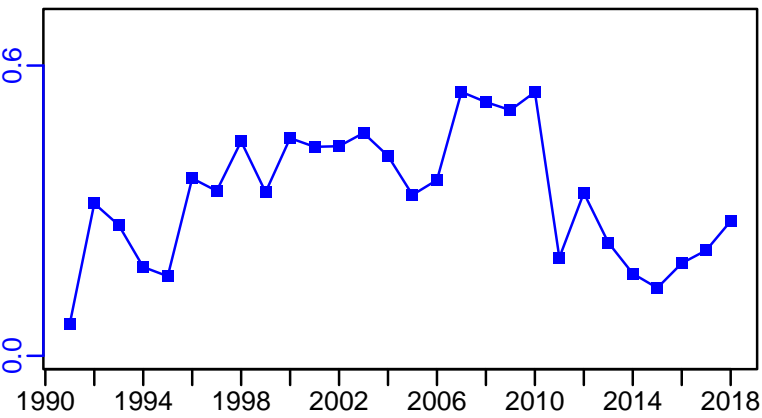
TN *



F*



ER-calc-ratio (1991–2018–SISIMP2021)



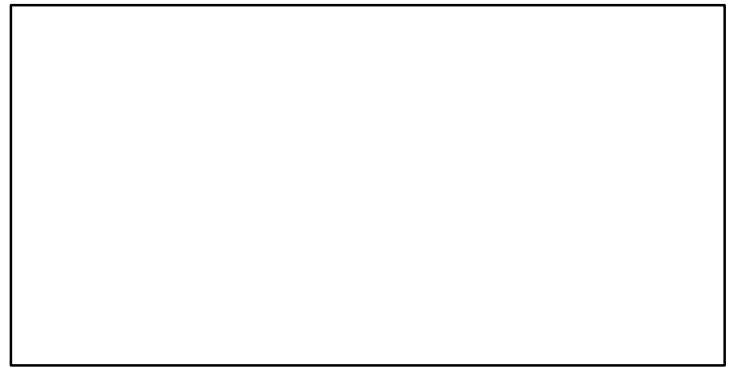
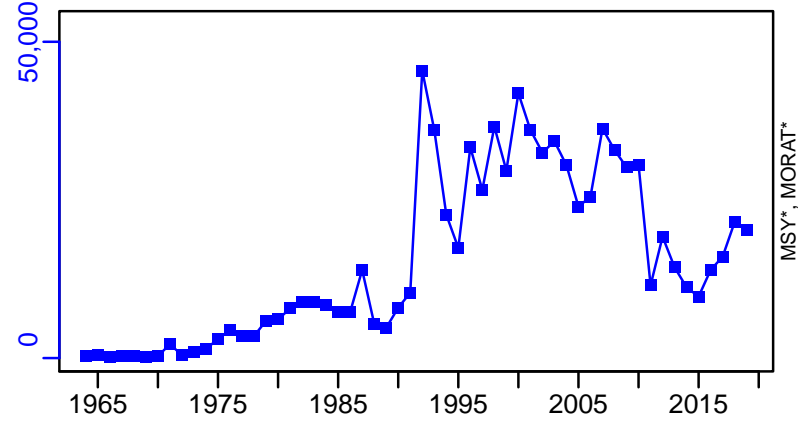
Recruits*



Pacific cod Aleutian Islands [PCODAI]

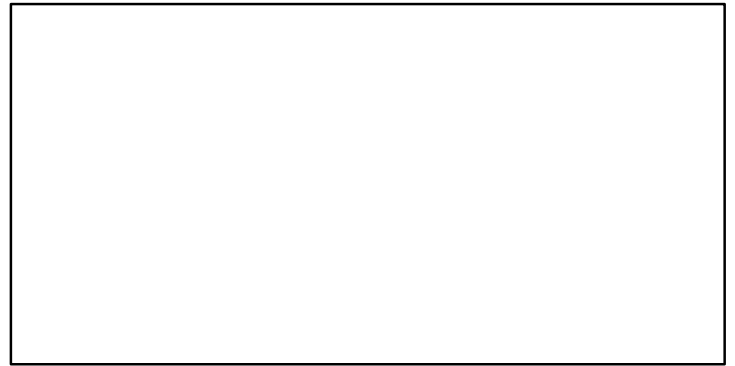
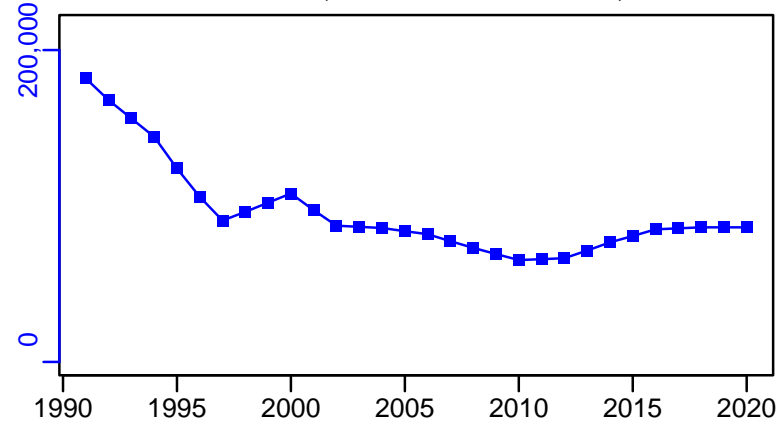
TC-MT, TL*, RecC* (1964-2020-SISIMP2021-2)

TAC*, Cpair*, Cadv*



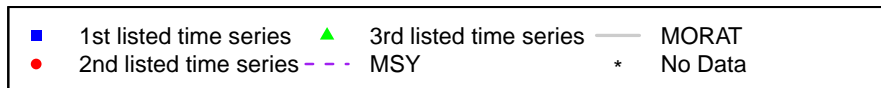
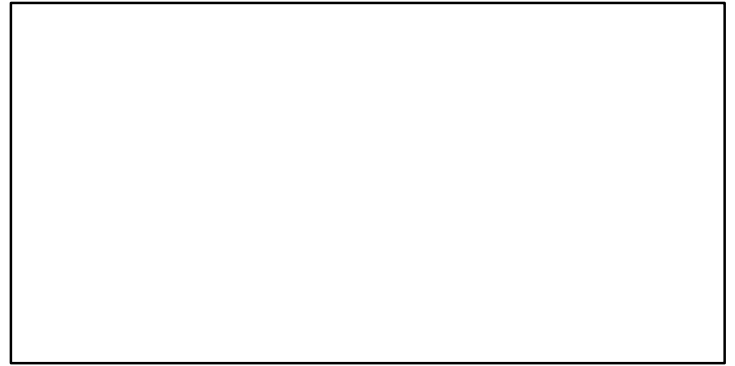
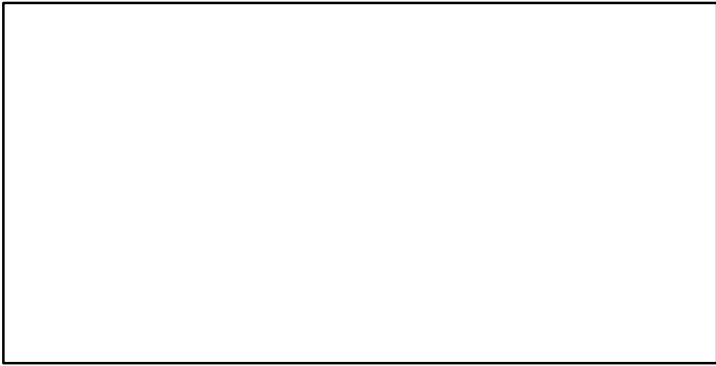
survB-MT (1964-2020-SISIMP2021-2)

CPUE*



EFFORT*

CdivMSY*



Pacific cod Bering Sea [PCODBS]

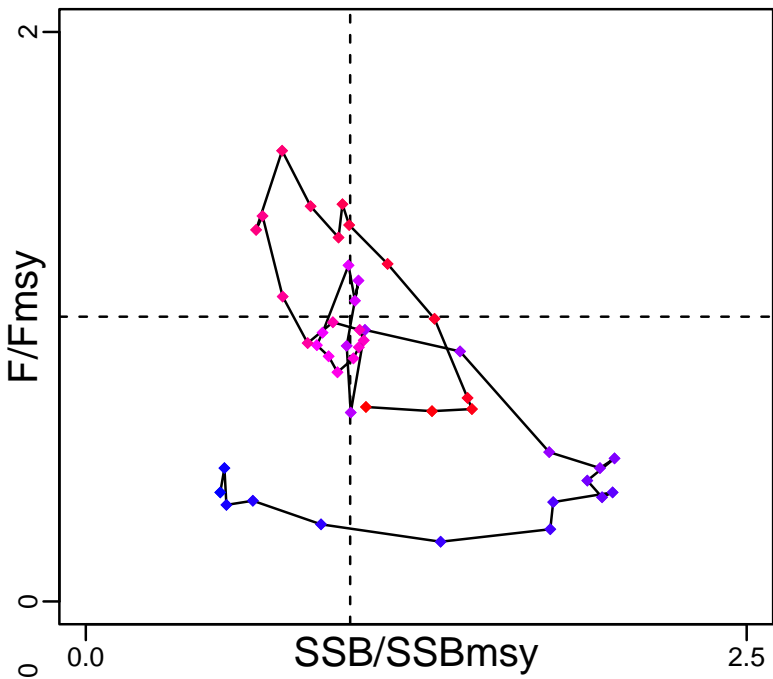
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODBS-1977-2021-SISIMP2022
Area	Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021

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

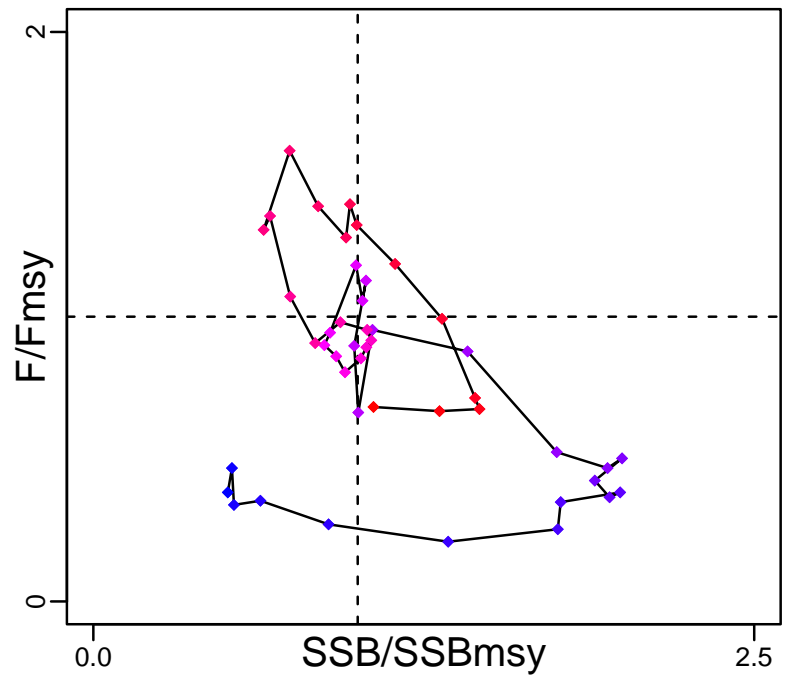
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,670,000	-	0+
SSB	SSB-MT	2021	254,718	Females	-
TN	-	-	-	-	-
R	R-E00	2021	501,019,000	-	0
F	F-1/yr	2021	0.28	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2021	155,639		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.06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

Pacific cod Bering Sea [PCODBS]

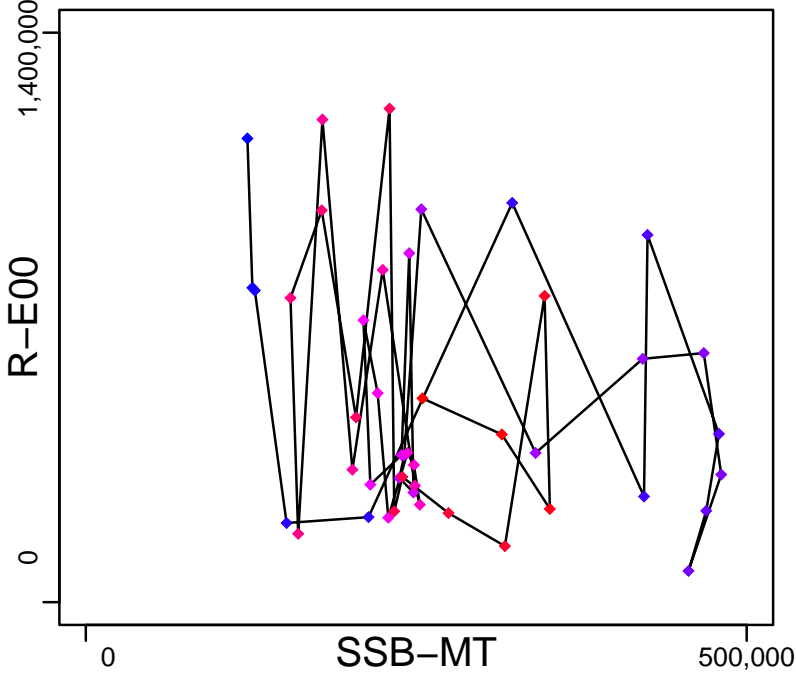
Kobe MSYpref (1977–2021–SISIMP2022)



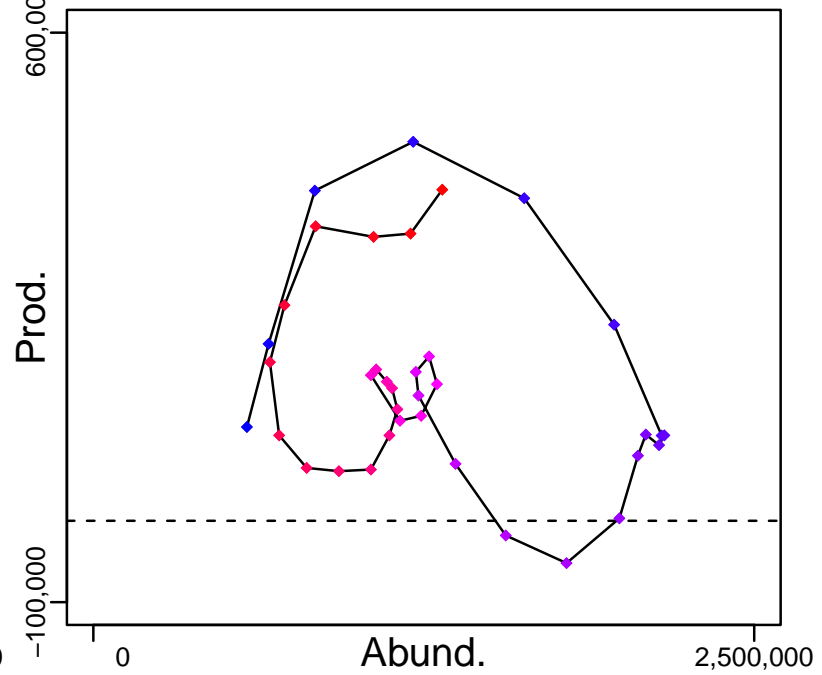
Kobe MGTpref (1977–2021–SISIMP2022)



Spawner Recruit (1977–2021–SISIMP2022)



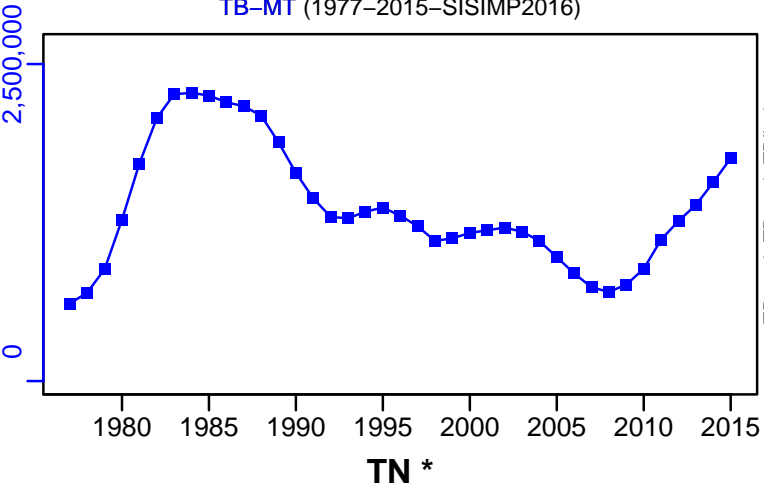
Production (1977–2015–SISIMP2016)



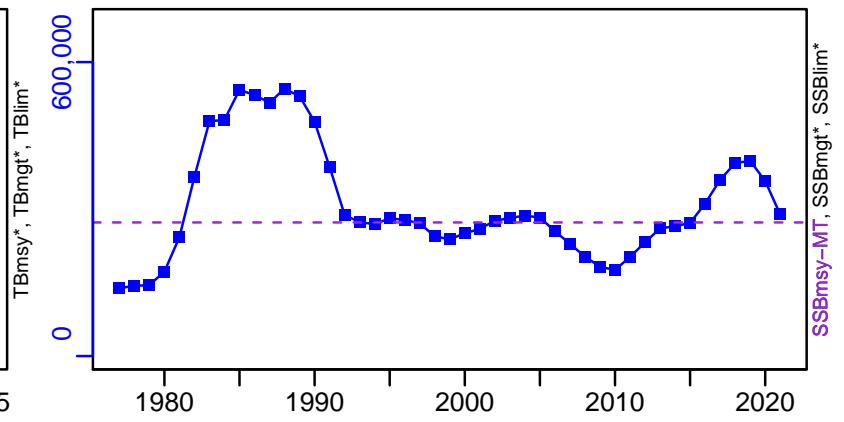
◆ Start Year ◆ End Year * No Data

Pacific cod Bering Sea [PCODBS]

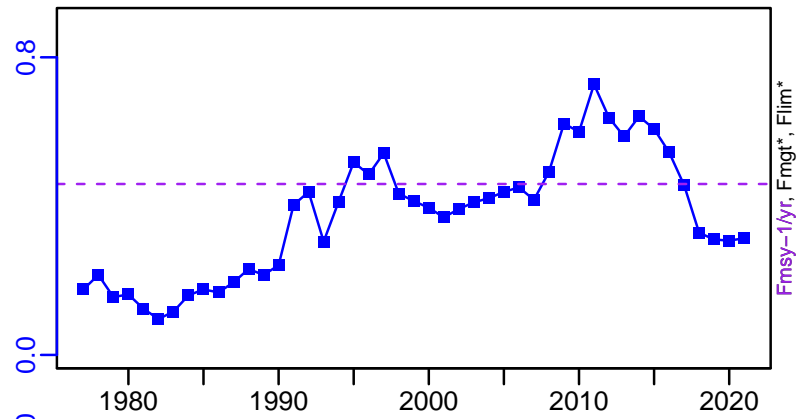
TB-MT (1977–2015–SISIMP2016)



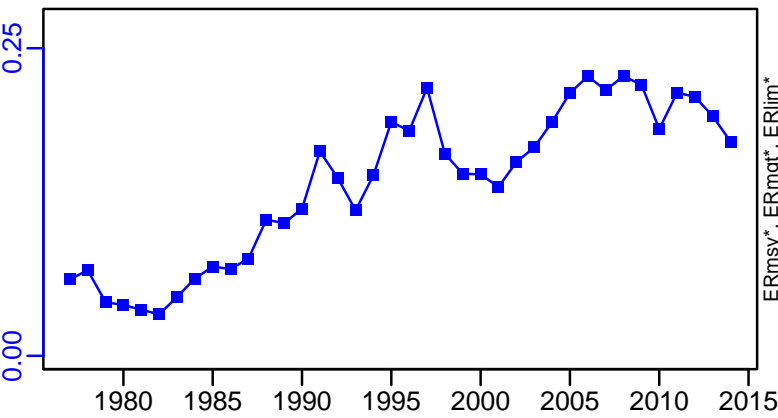
SSB-MT (1977–2021–SISIMP2022)



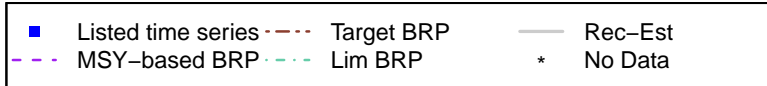
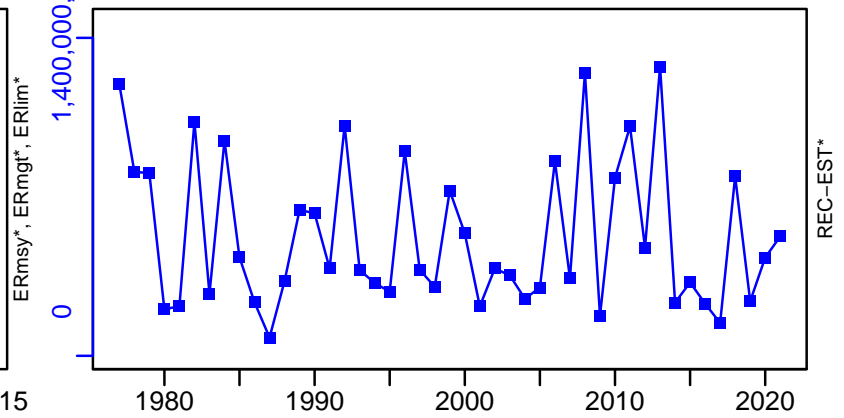
F-1/yr (1977–2021–SISIMP2022)



ER-calc-ratio (1977–2015–SISIMP2016)

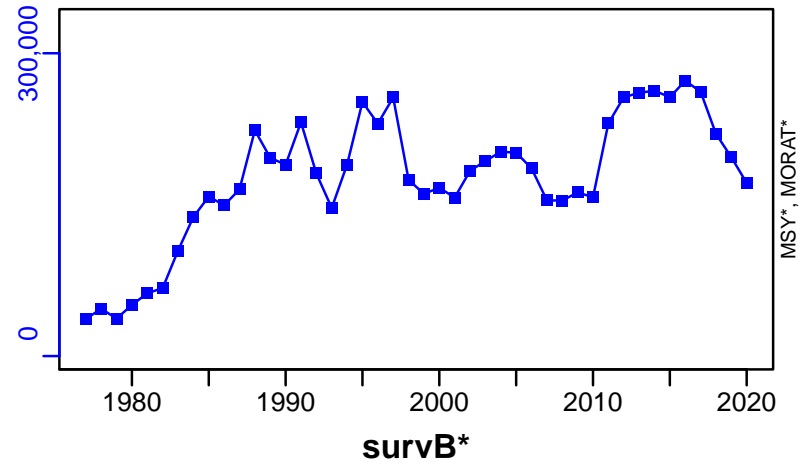


R-E00 (1977–2021–SISIMP2022)

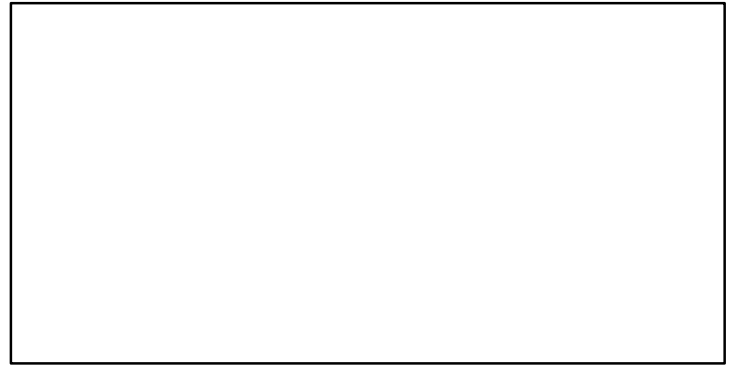


Pacific cod Bering Sea [PCODBS]

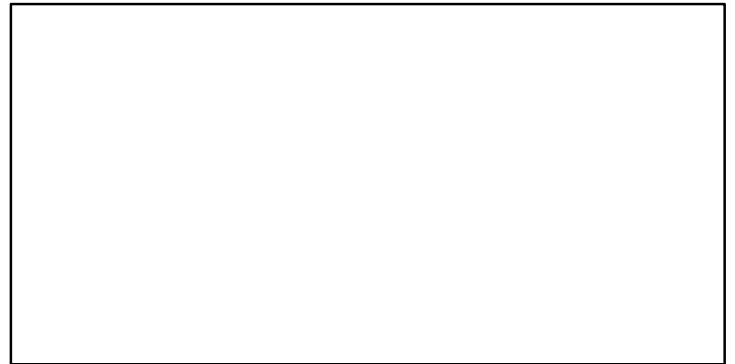
TC-MT, TL*, RecC* (1977-2021-SISIMP2022)



TAC*, Cpair*, Cadv*



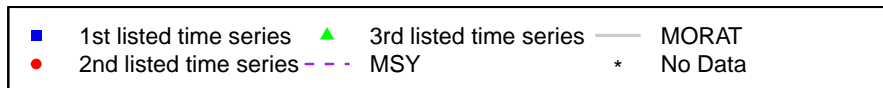
CPUE*



EFFORT*



CdivMSY*



Pacific cod Gulf of Alaska [PCODGA]

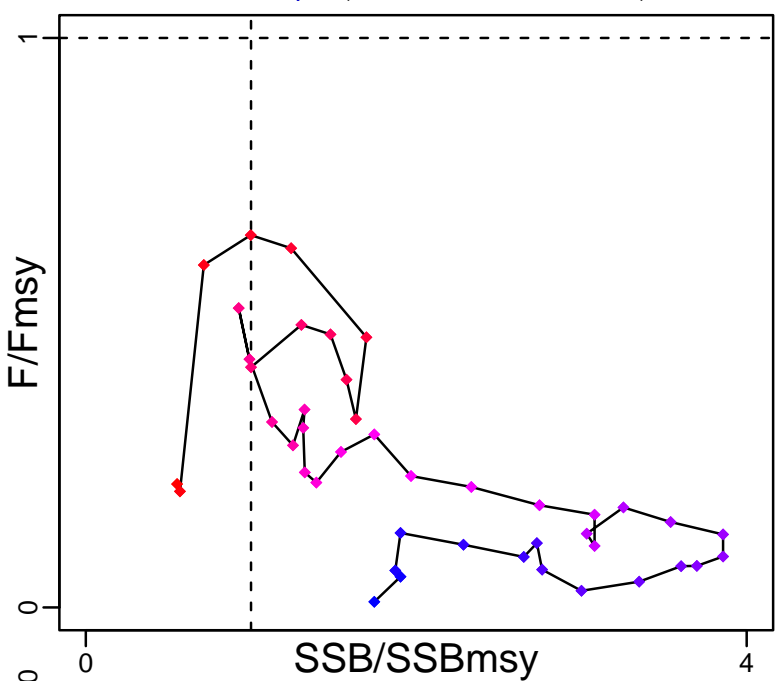
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	AFSC-PCODGA-1977-2020-SISIMP2021-2
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020

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

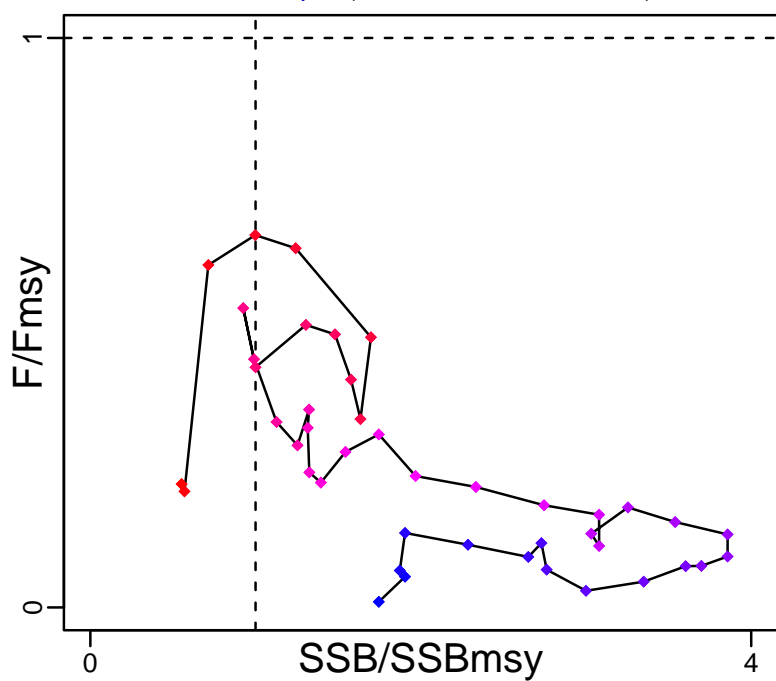
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	640,000	-	3+
SSB	SSB-MT	2020	34,600	-	-
TN	-	-	-	-	-
R	R-E00	2020	4.64×10^8	-	0
F	F-1/yr	2020	0.169	-	-
ER	ER-calc-ratio	2015	0.125	-	-
TC	TC-MT	2020	15,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.549		
F/Fmsy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

Pacific cod Gulf of Alaska [PCODGA]

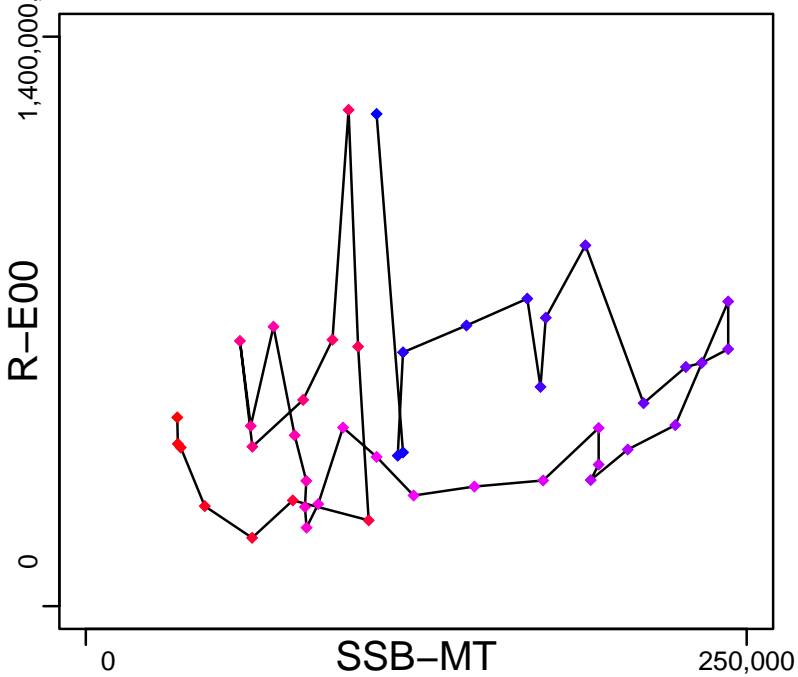
Kobe MSYpref (1977–2020–SISIMP2021–2)



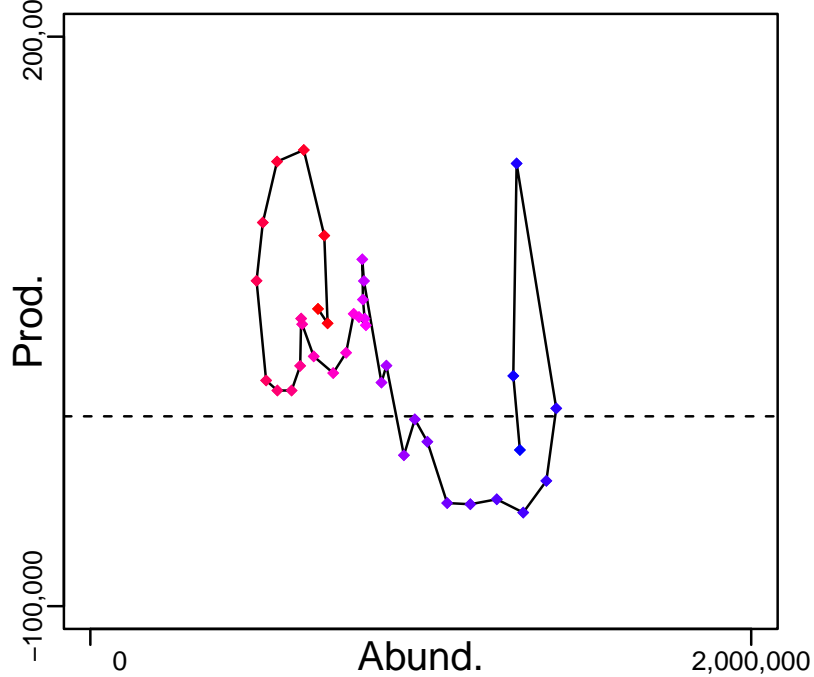
Kobe MGTpref (1977–2020–SISIMP2021–2)



Spawner Recruit (1977–2020–SISIMP2021–2)



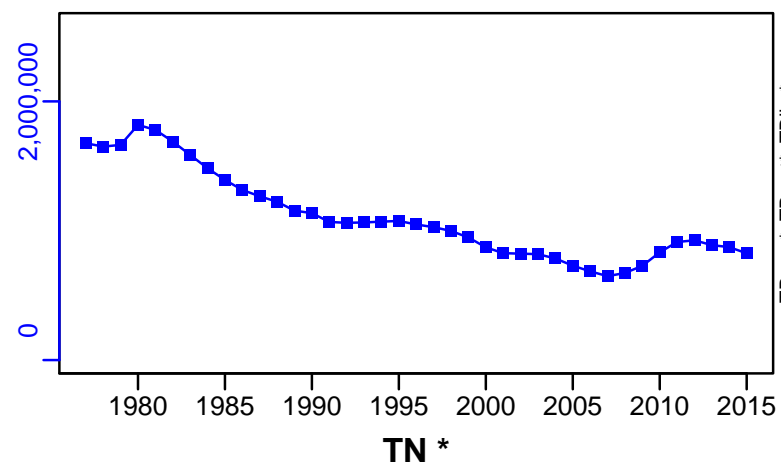
Production (1977–2015–SISIMP2016)



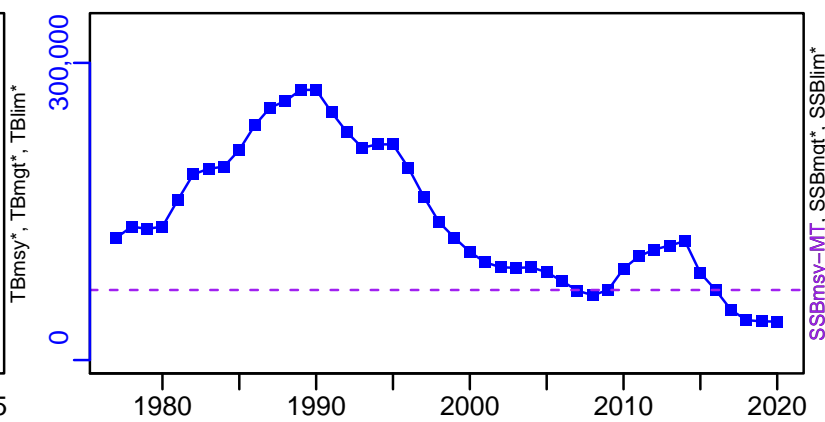
◆ Start Year ◆ End Year * No Data

Pacific cod Gulf of Alaska [PCODGA]

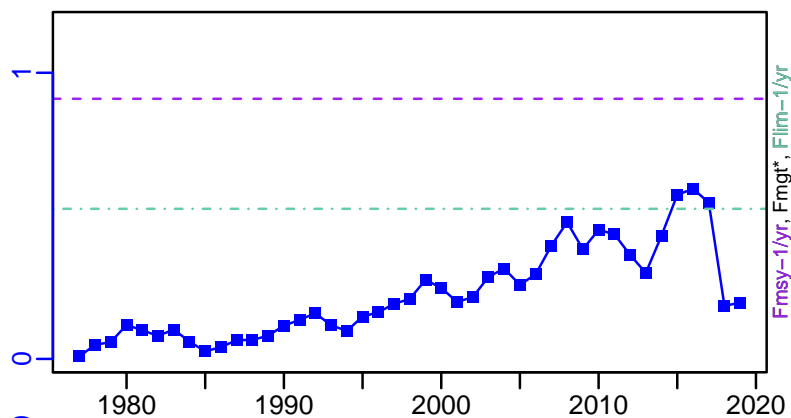
TB-MT (1977-2015-SISIMP2016)



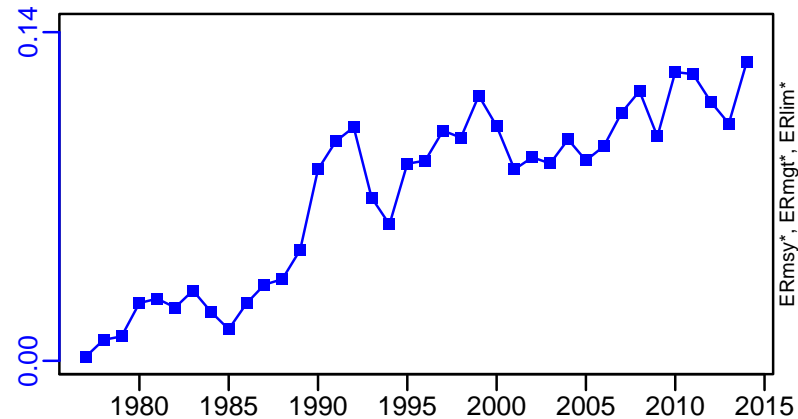
SSB-MT (1977-2020-SISIMP2021-2)



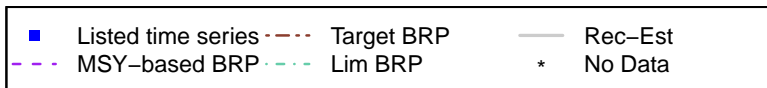
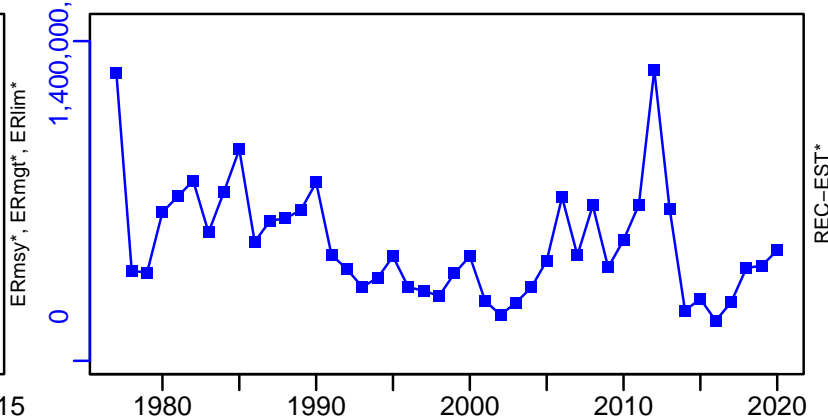
F-1/yr (1977-2020-SISIMP2021-2)



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



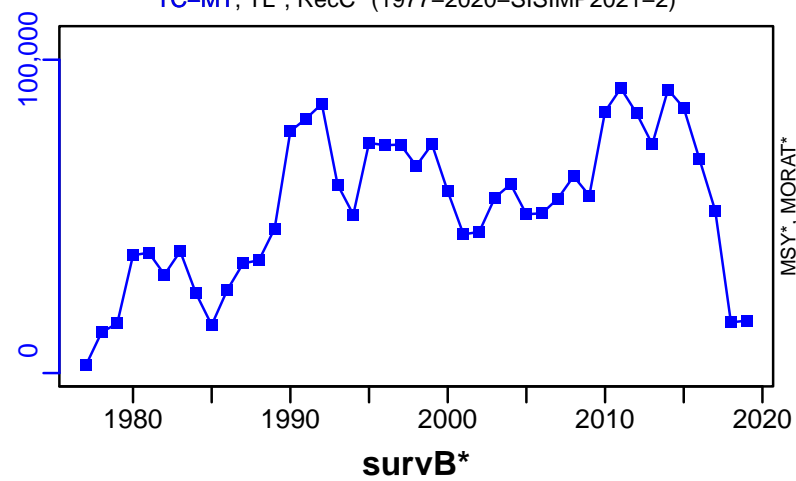
R-E00 (1977-2020-SISIMP2021-2)



Pacific cod Gulf of Alaska [PCODGA]

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

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

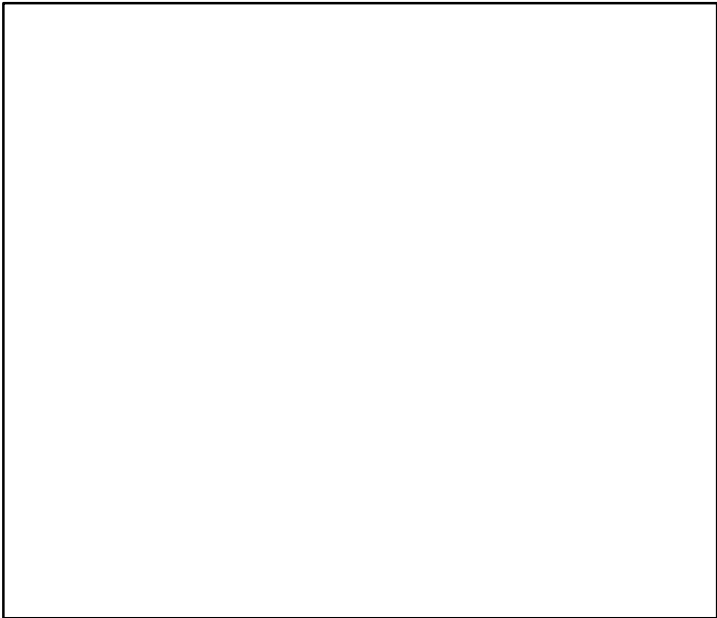
Pacific cod Hokkaido [PCODHOKK]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAFRFJ-PCODHOKK-1985-2013-JPNIMP2016
Area	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	0.313
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	28,900		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

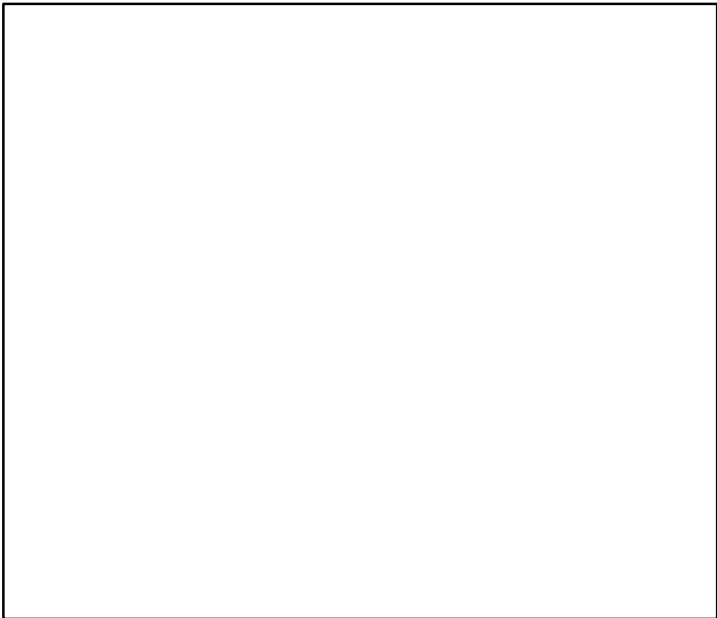
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

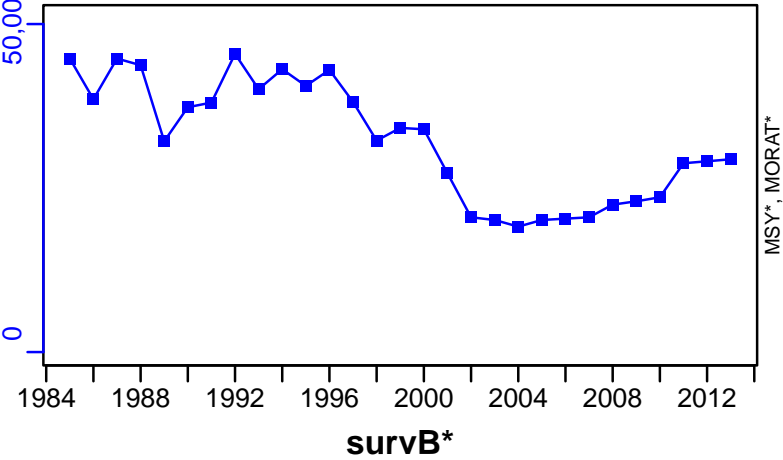


Recruits*



Pacific cod Hokkaido [PCODHOKK]

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



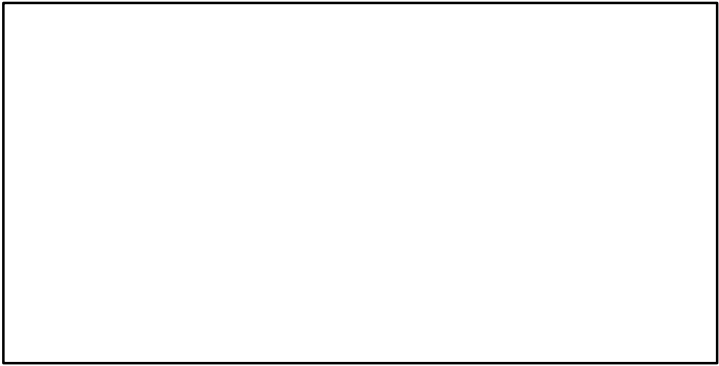
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Pacific cod North Pacific [PCODNPAC]

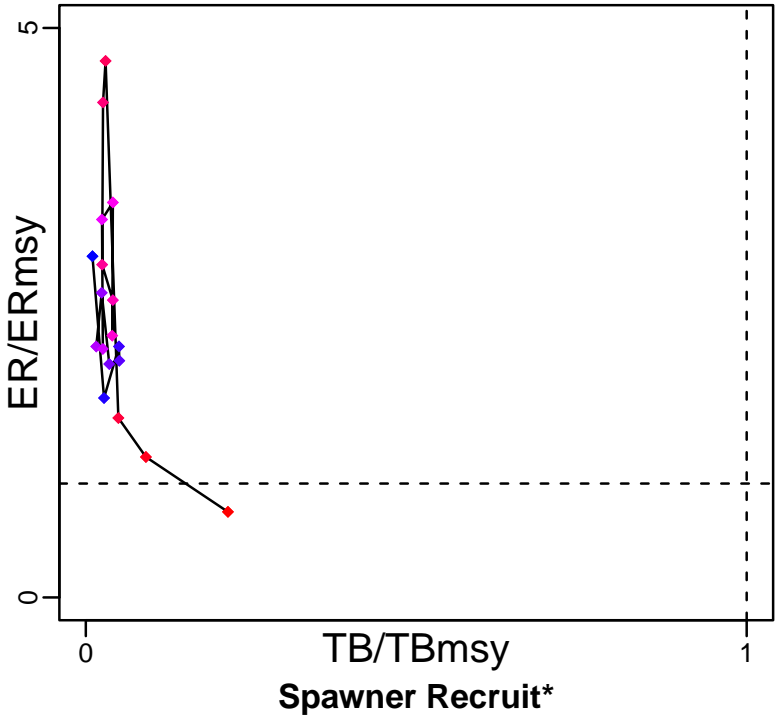
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAFRFJ-PCODNPAC-1975-2014-JPNIMP2016
Area	North Pacific
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2014	1,297,226
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.145
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-calc-MT	2014	188,098
M	M-1/yr	2014	0.313
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

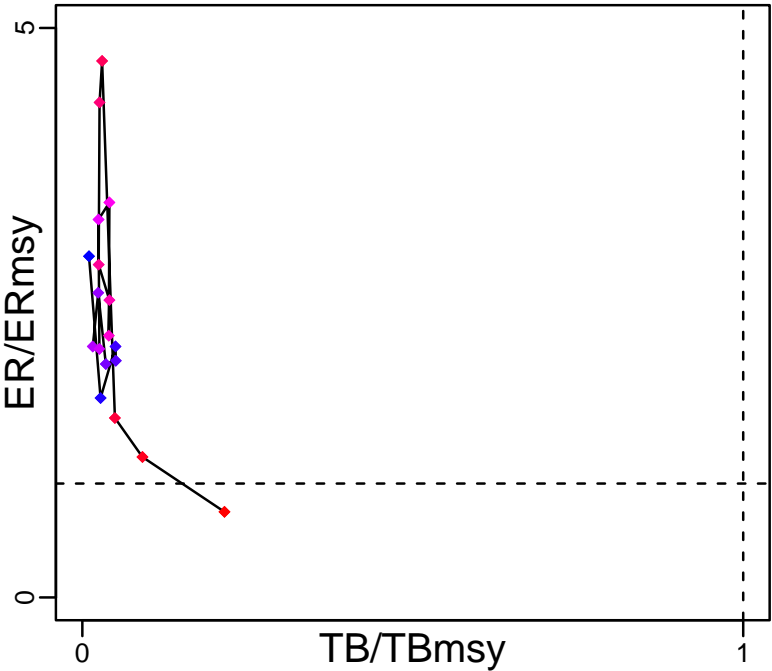
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	267,000	-	1
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.109	-	-
TC	TC-MT	2014	30,400		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2014	0.206		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.751		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod North Pacific [PCODNPAC]

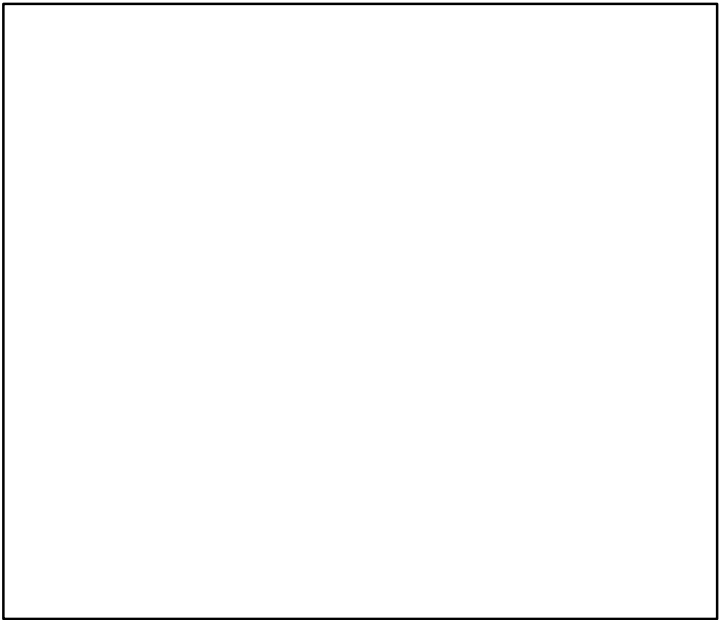
Kobe MSYpref (1975–2014–JPNIMP2016)



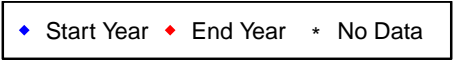
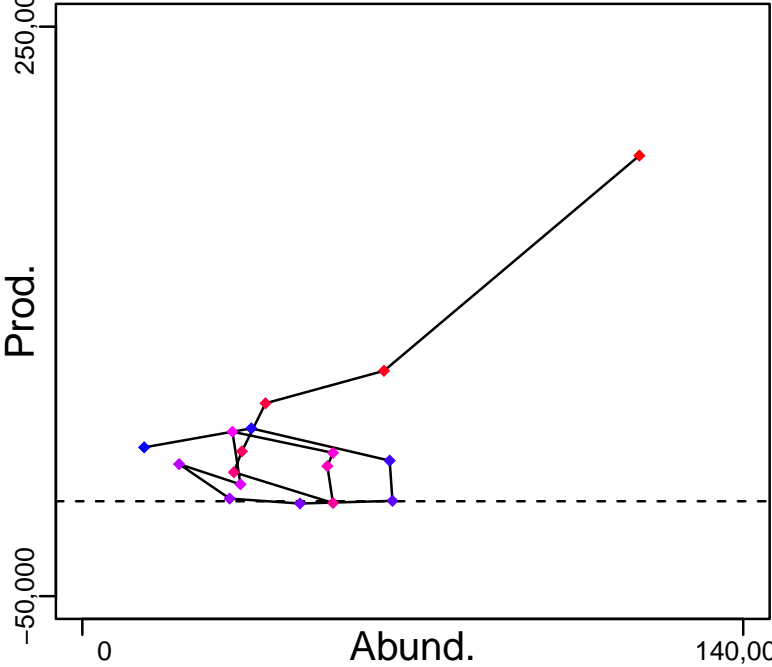
Kobe MGTpref (1975–2014–JPNIMP2016)



Spawner Recruit*

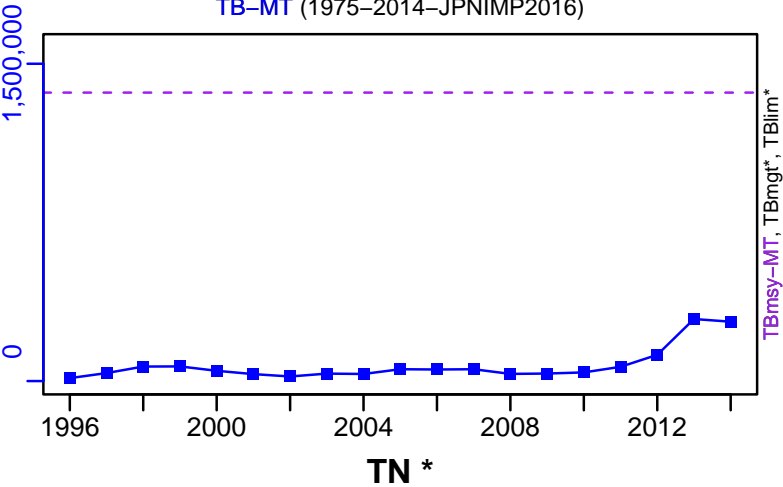


Production (1975–2014–JPNIMP2016)



Pacific cod North Pacific [PCODNPAC]

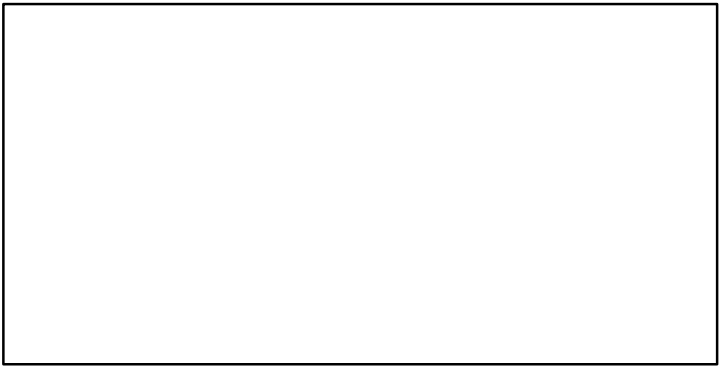
TB-MT (1975-2014-JPNIMP2016)



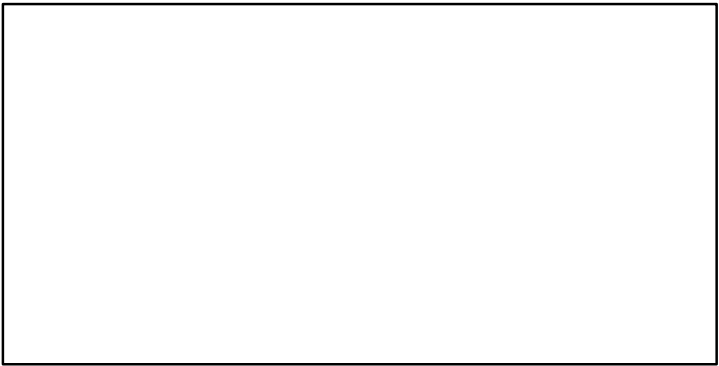
SSB*



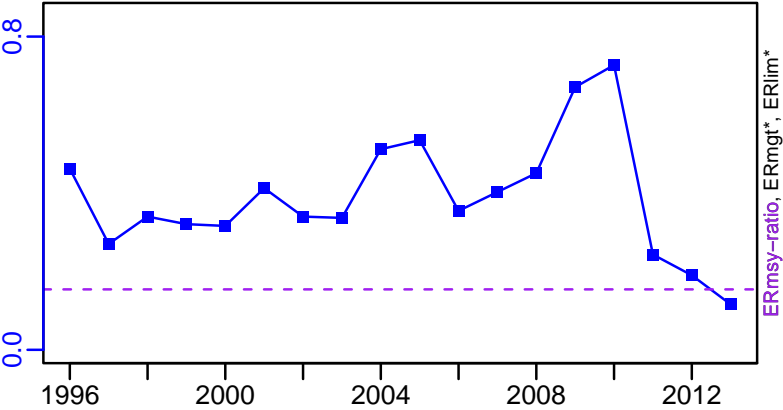
TN *



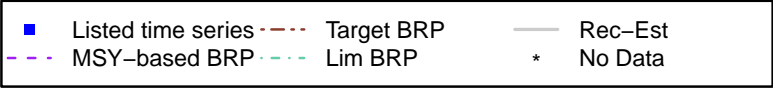
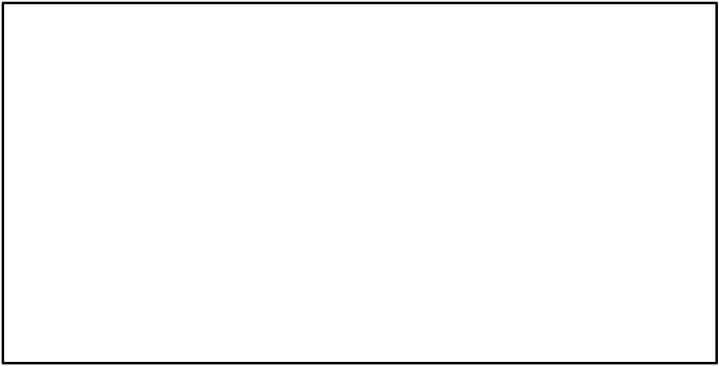
F*



ER-calc-ratio (1975-2014-JPNIMP2016)

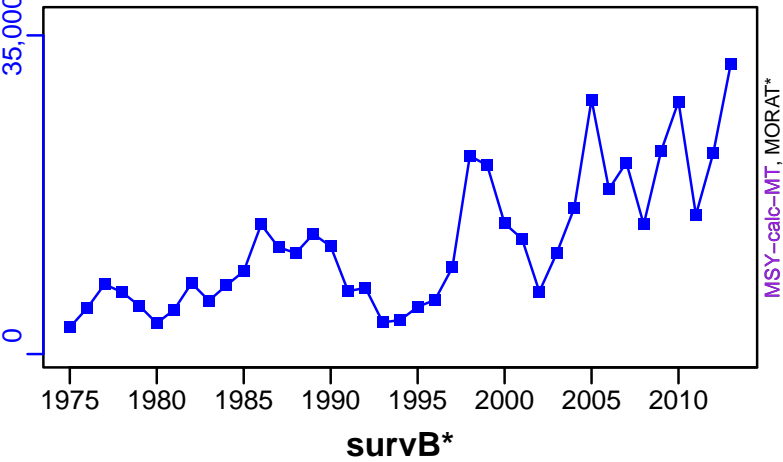


Recruits*

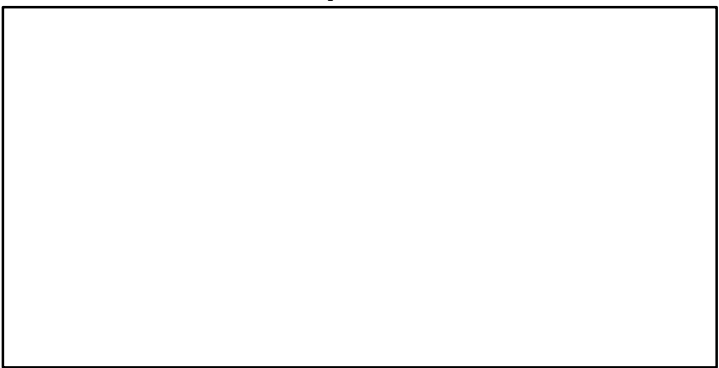


Pacific cod North Pacific [PCODNPAC]

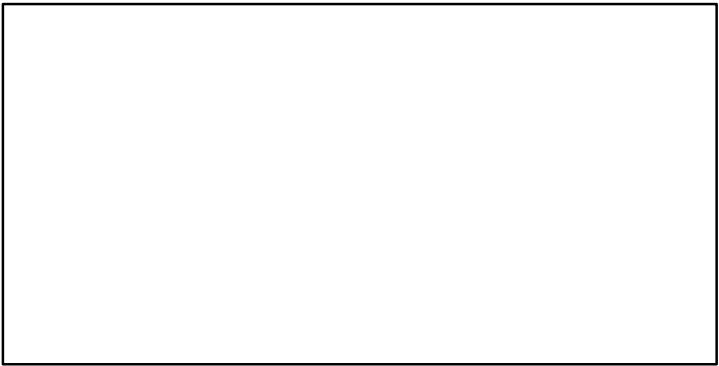
TC-MT, TL*, RecC* (1975-2014-JPNIMP2016)



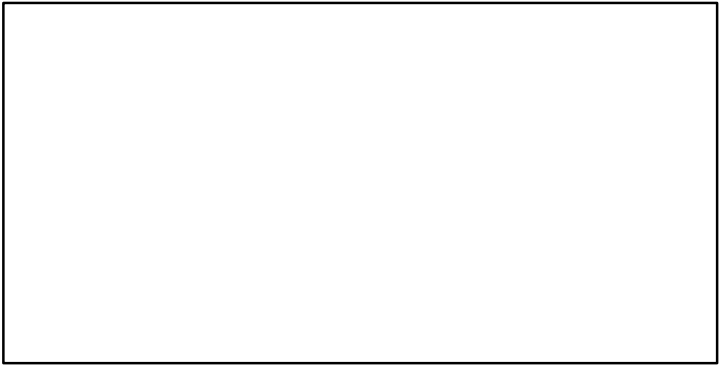
TAC*, Cpair*, Cadv*



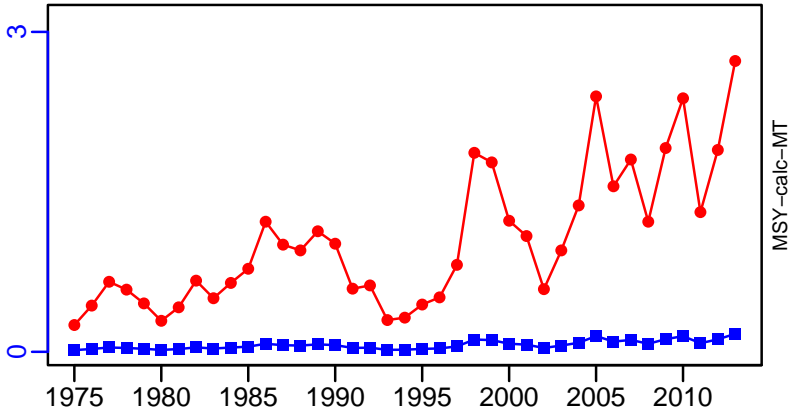
CPUE*



EFFORT*



TC-MT/MSY-calc-MT, CdivMEANC-ratio, (1975-2014-JPNIMP2016)

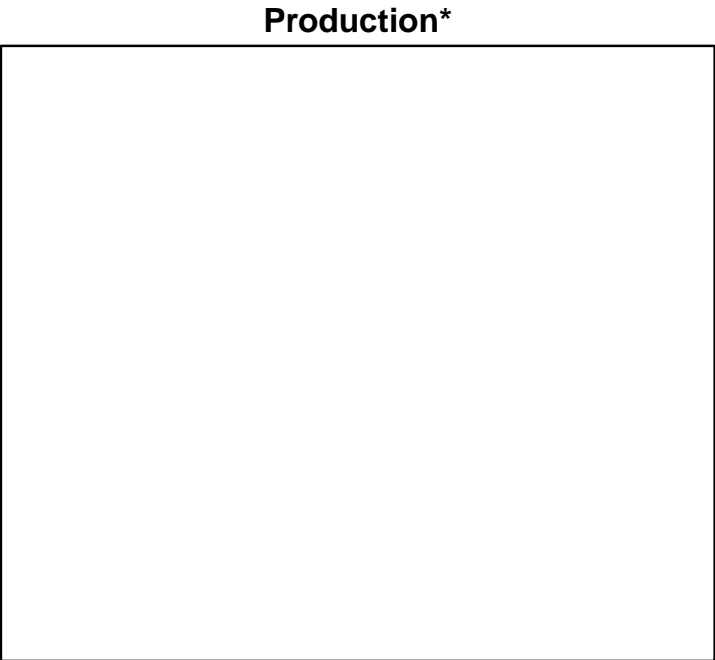
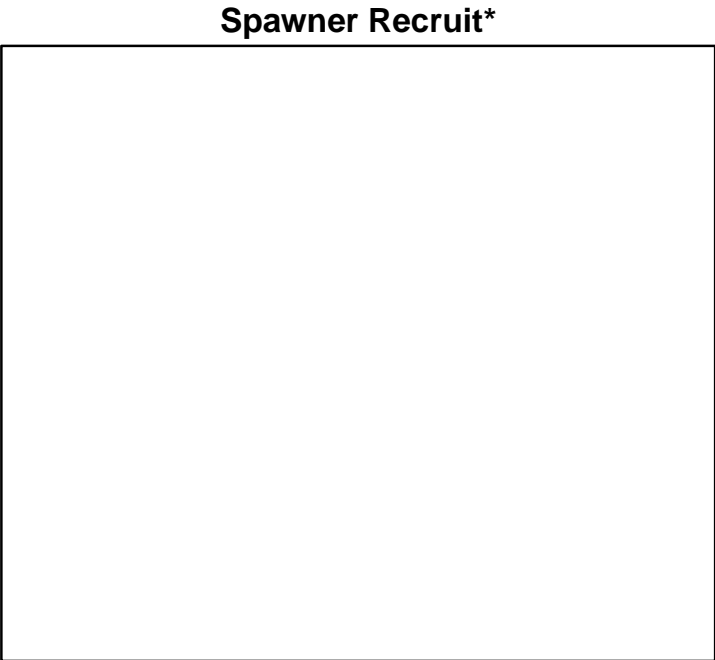
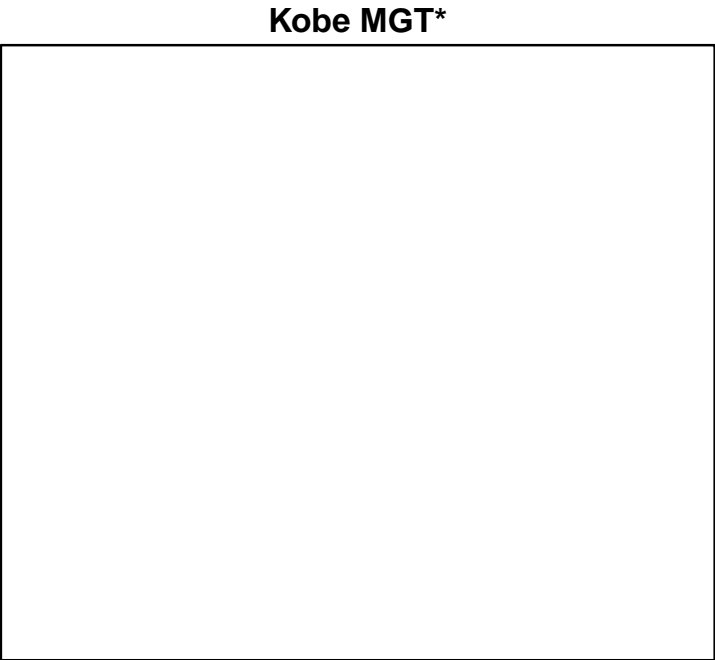
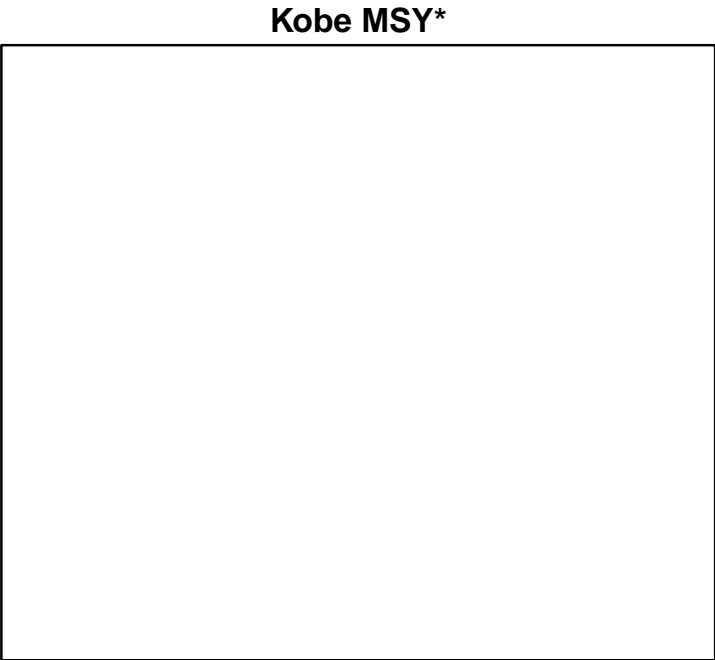


Pacific cod Sea of Japan [PCODSOJ]

Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	FAFRFJ-PCODSOJ-1964-2013-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	M-1/yr	2013	0.313
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	3920		
TL	-	-	-		
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*



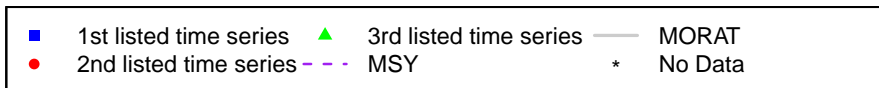
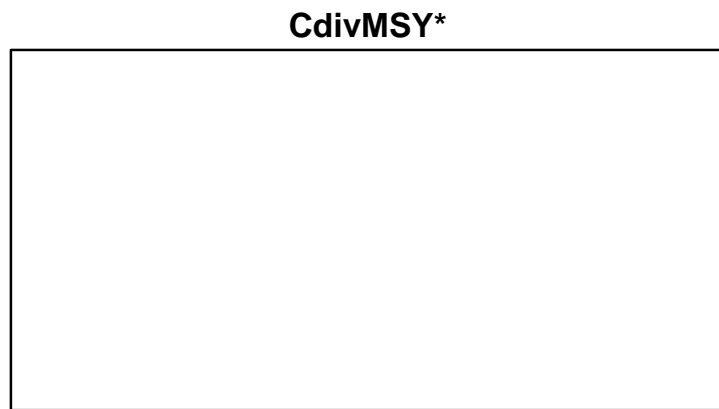
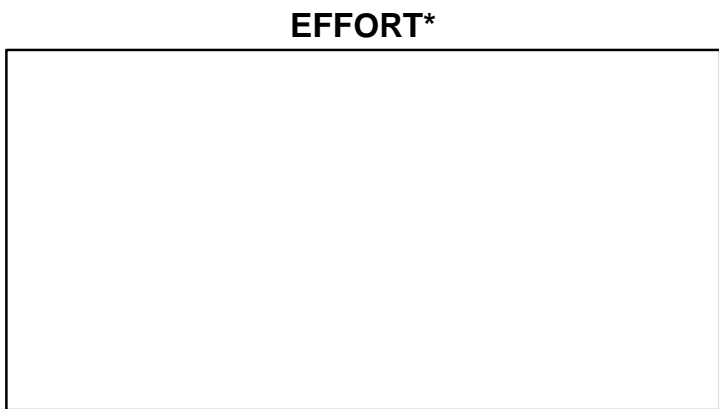
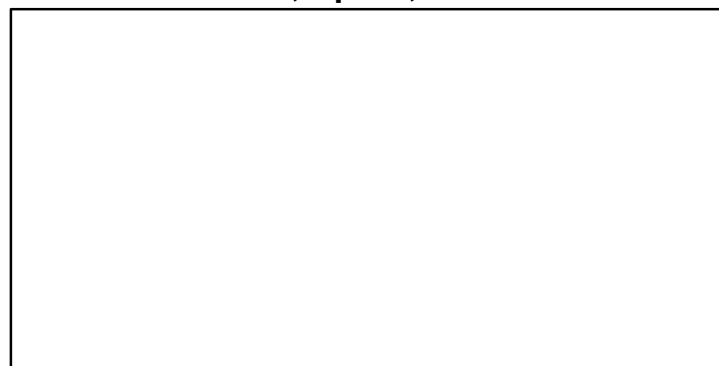
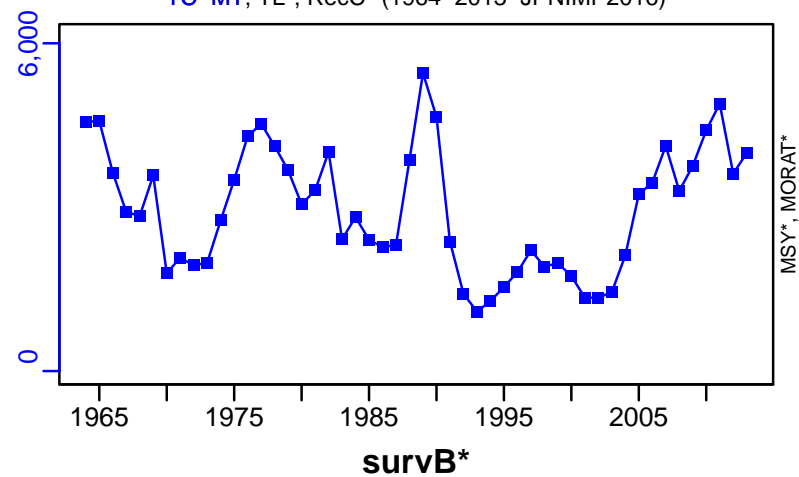
Recruits*



Pacific cod Sea of Japan [PCODSOJ]

TC-MT, TL*, RecC* (1964-2013-JPNIMP2016)

TAC*, Cpair*, Cadv*



Pacific cod West Coast of Vancouver Island [PCODWCVANI]

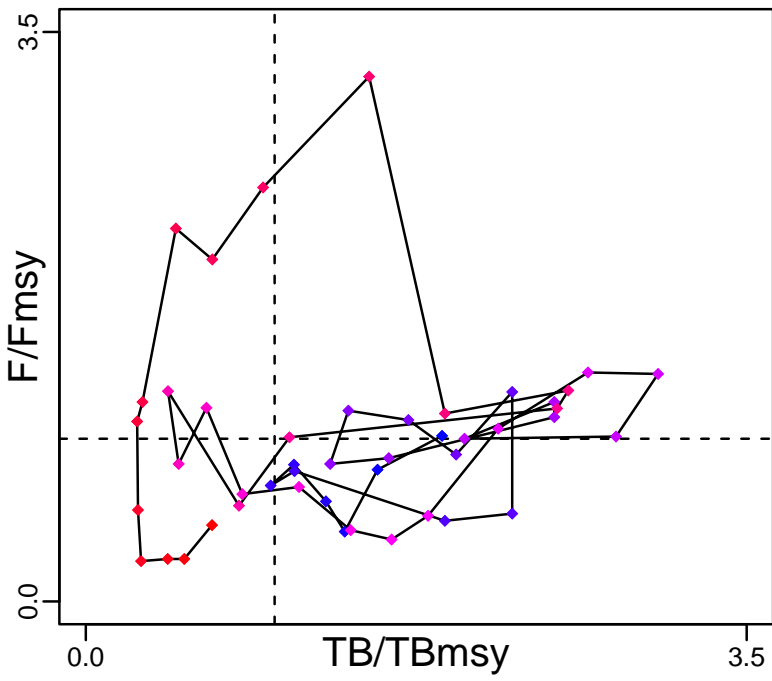
Metadata	
Scientific Name	Gadus macrocephalus
Current Assess ID	DFO-PAC-PCODWCVANI-1953-2019-ASHBROOK
Area	West Coast of Vancouver Island
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2019, 2002

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2002	6731
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2002	0.226
ERmsy	-	-	-
TBmgt	TBmgt-MT	2019	24,982
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2019	14,549
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2002	0.579
TBlim	TBlim-MT	2019	8108
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

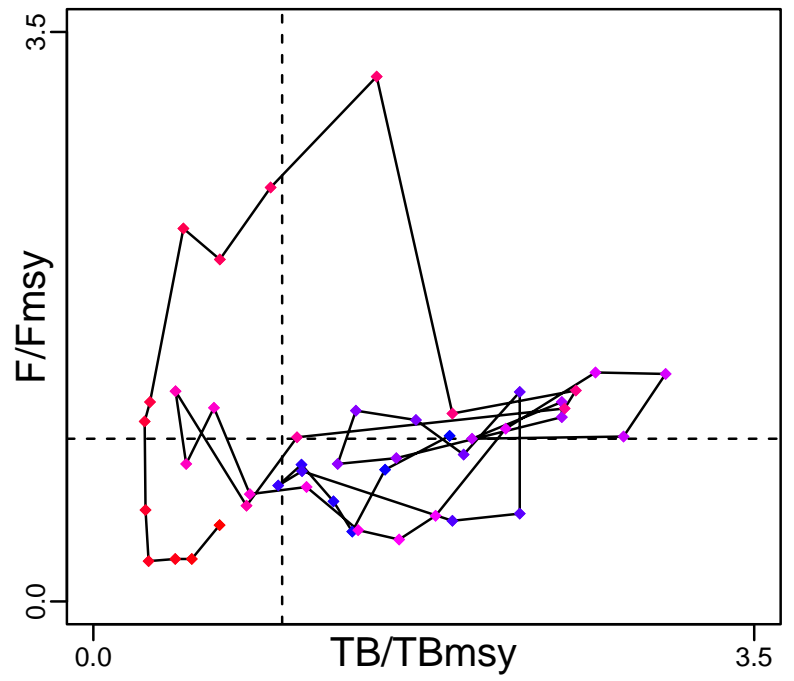
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	16,817	-	2+
SSB	-	-	-	-	-
TN	TN-E00	2002	5,140,000	-	-
R	R-E00	2019	2,875,481	-	2+
F	F-1/yr	2002	0.106	Both	2+
ER	ER-calc-ratio	2019	0.008	-	-
TC	-	-	-		
TL	TL-MT	2019	165		
TB/TBmsy	TB-MT/TBmsy-MT	2002	1.037		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2002	0.469		
ER/ERmsy	-	-	-		
TB/TBmgt	TB-MT/TBmgt-MT	2019	0.673		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific cod West Coast of Vancouver Island [PCODWCVANI]

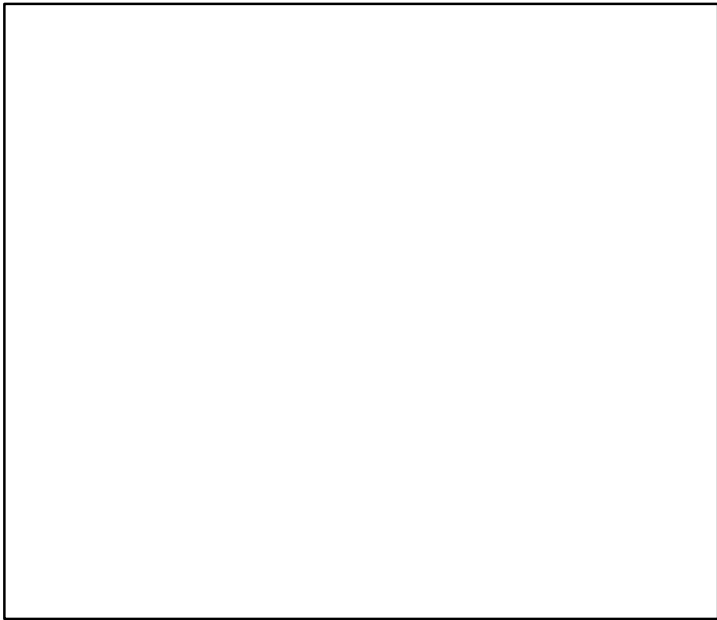
Kobe MSYpref (1956–2002–COLLIE)



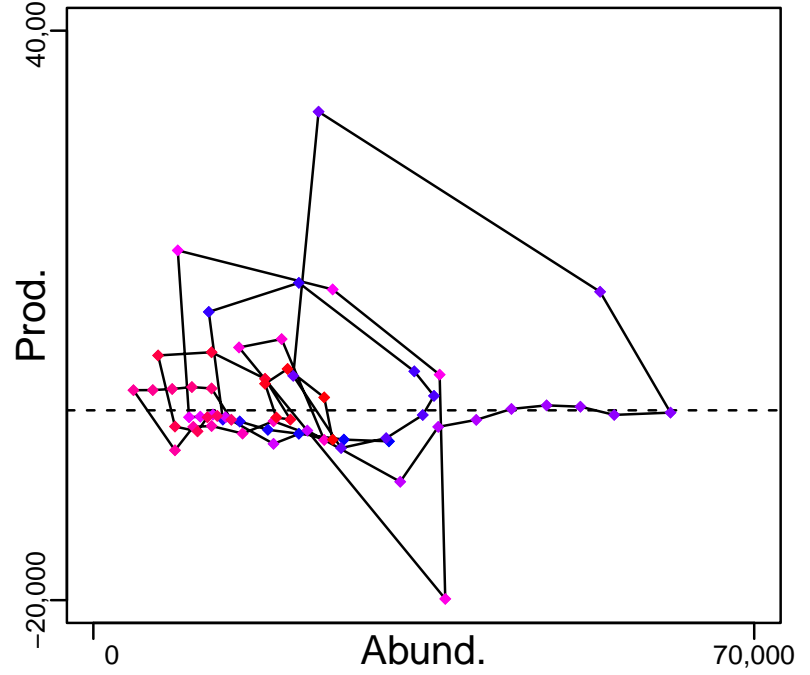
Kobe MGTpref (1956–2002–COLLIE)



Spawner Recruit*



Production (1953–2019–ASHBROOK)

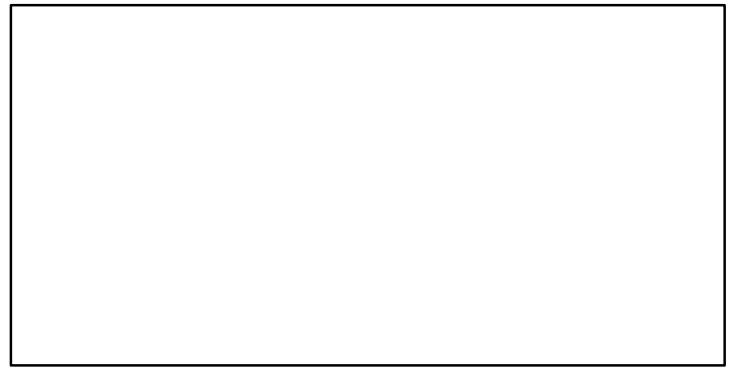
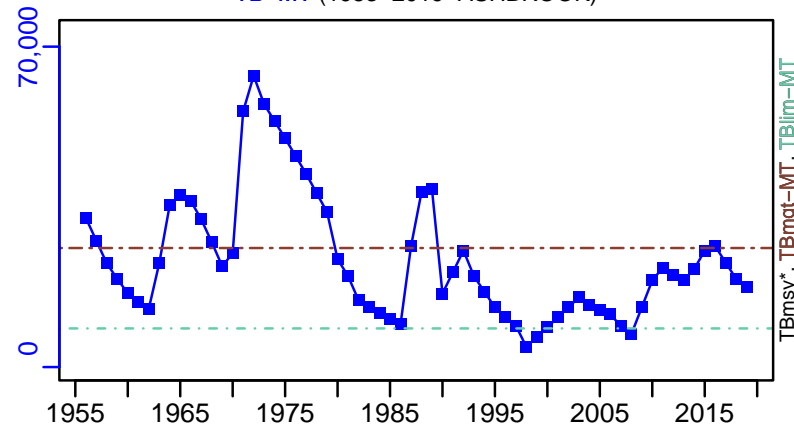


◆ Start Year ◆ End Year * No Data

Pacific cod West Coast of Vancouver Island [PCODWCVANI]

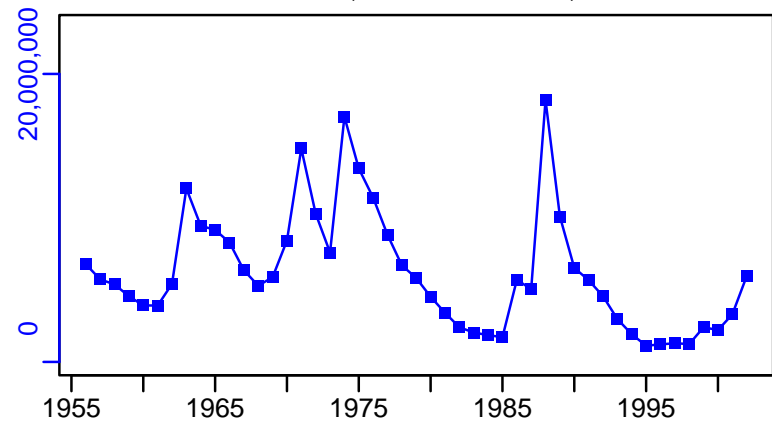
TB-MT (1953–2019–ASHBROOK)

SSB*

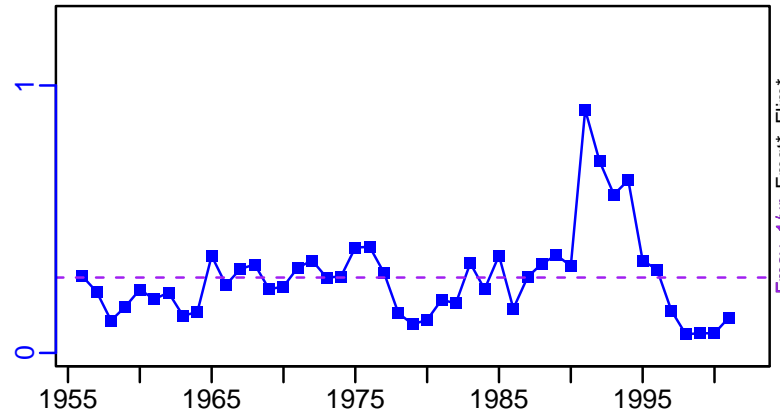


TN-E00 (1956–2002–COLLIE)

F-1/yr (1956–2002–COLLIE)



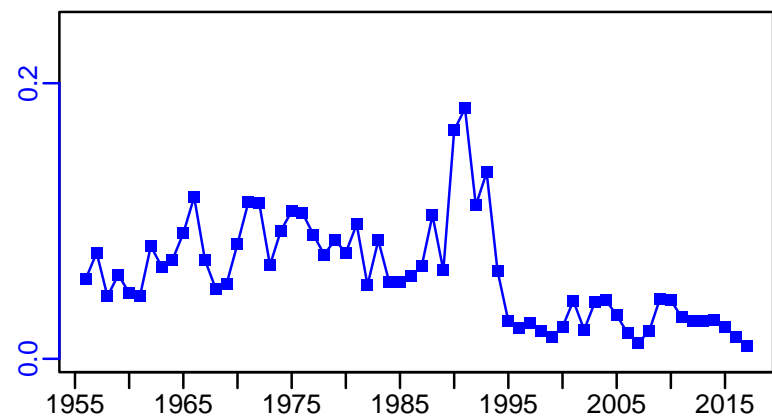
TNmsy*, TNmgt*, TNlim*



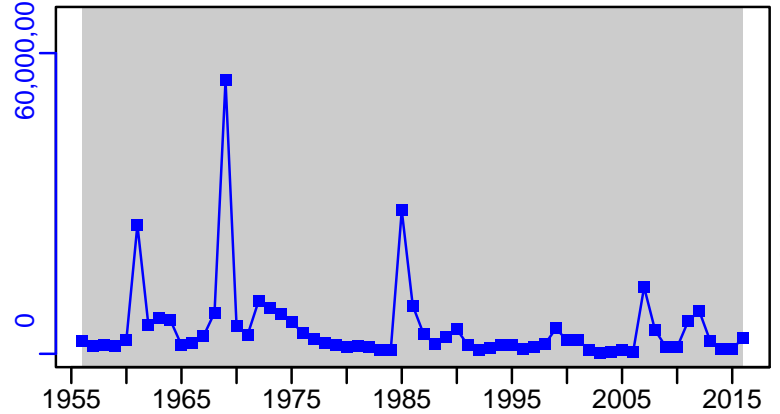
Fmsy*, Fmgt*, Flim*

ER-calc-ratio (1953–2019–ASHBROOK)

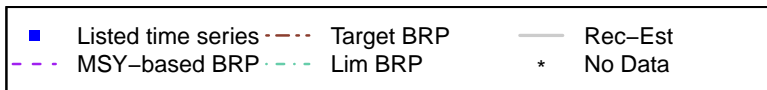
R-E00 (1953–2019–ASHBROOK)



ERmsy*, ERmgt*, ERLim*



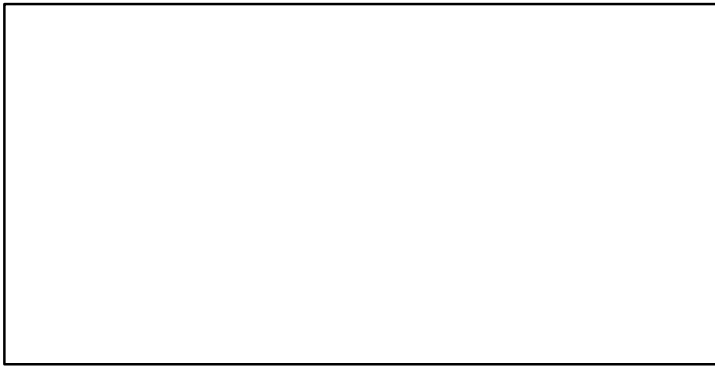
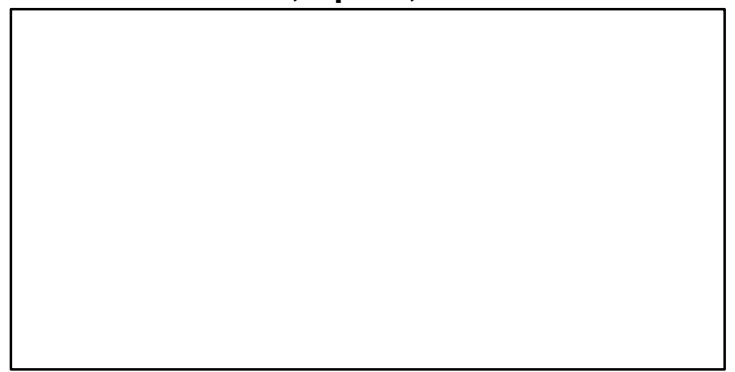
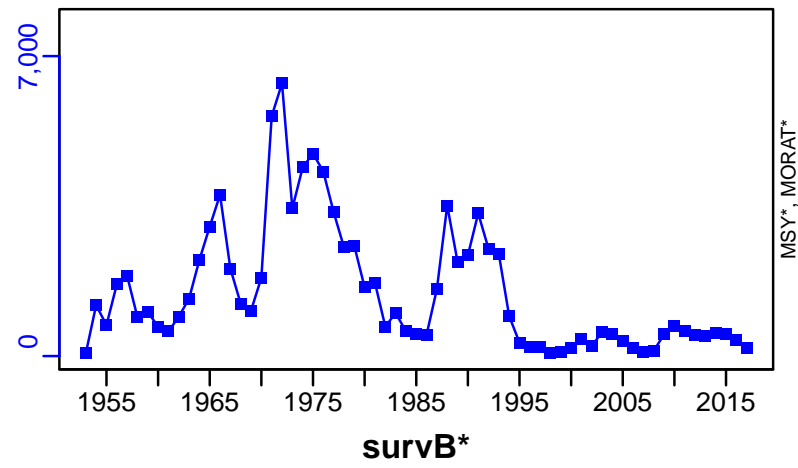
REC-EST: 1956–2016



Pacific cod West Coast of Vancouver Island [PCODWCVANI]

TL-MT, TC*, RecC* (1953-2019-ASHBROOK)

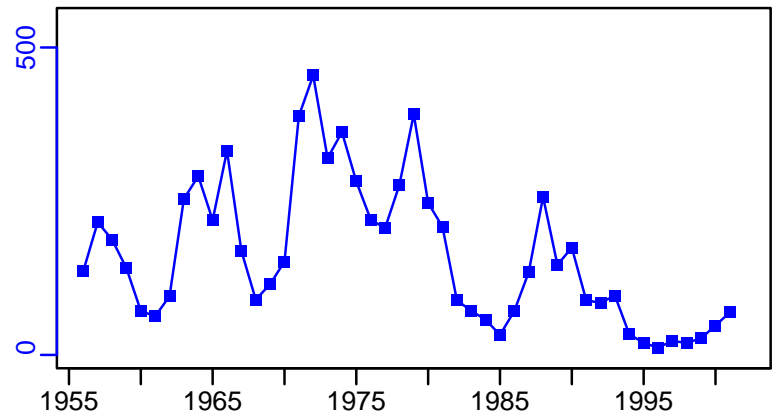
TAC*, Cpair*, Cadv*



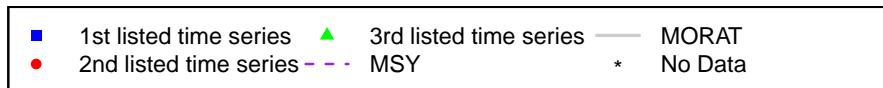
EFFORT*



CPUE_{raw}-C/E (1956-2002-COLLIE)



CdivMSY*



Pacific hake Pacific Coast [PHAKEPCOAST]

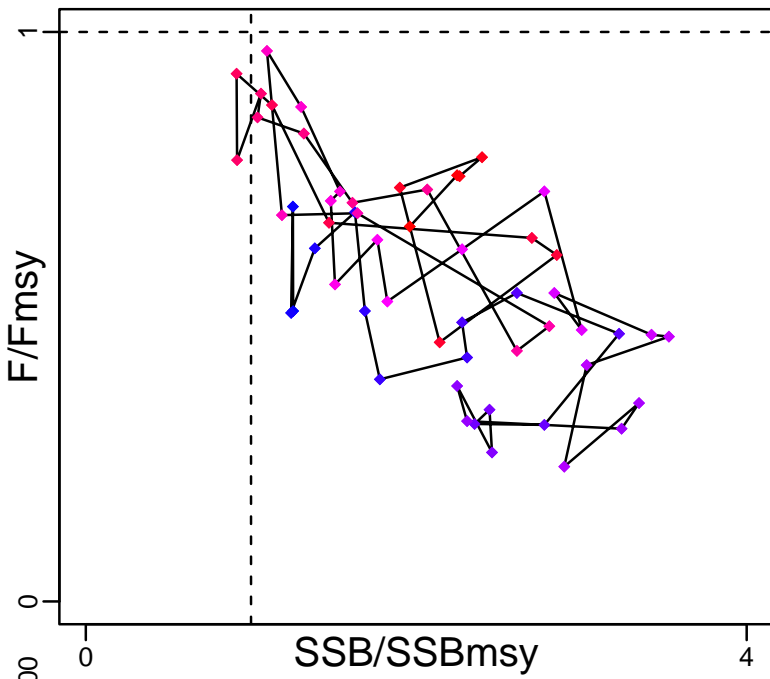
Metadata	
Scientific Name	Merluccius productus
Current Assess ID	PFMC-PHAKEPCOAST-1966-2021-SISIMP2021-2
Area	Pacific Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Pacific Fishery Management Council
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2016	1,222,892
SSBmsy	SSBmsy-MT	2021	663,000
Fmsy	Fmsy-1/yr	2021	0.6
ERmsy	ERmsy-ratio	2016	0.332
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	959,000
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.19
TB0	-	-	-
SSB0	SSB0-MT	2016	2,397,000
MSY	MSY-MT	2021	269,000
M	M-1/yr	2016	0.226
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	166,000
Flim	Flim-1/yr	2021	0.6
ERlim	-	-	-

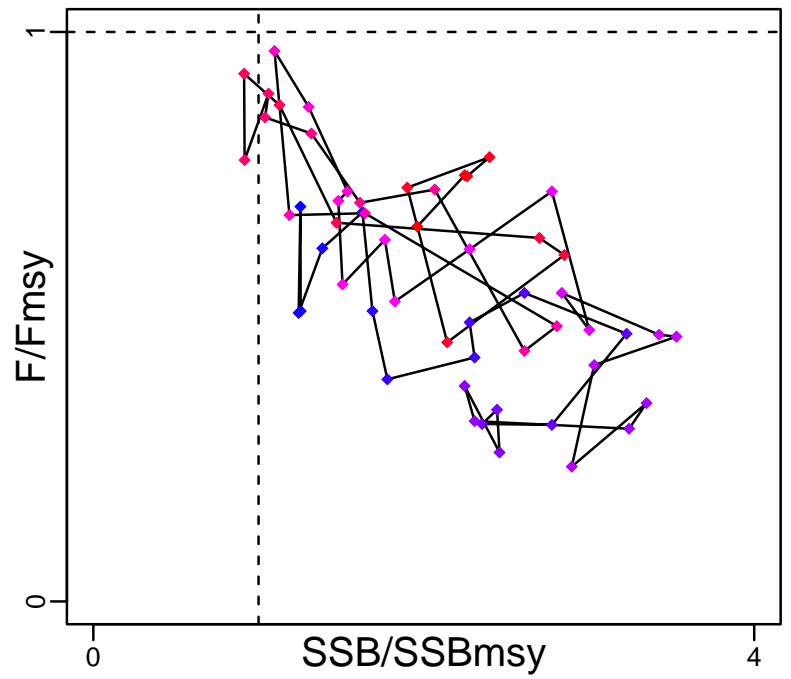
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3,557,240	-	-
SSB	SSB-MT	2021	981,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	8.1×10^8	-	0
F	F-1/yr	2021	0.395	-	-
ER	ER-calc-ratio	2018	0.097	-	-
TC	TC-MT	2021	379,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.48		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.658		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.202		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.971		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pacific hake Pacific Coast [PHAKEPCOAST]

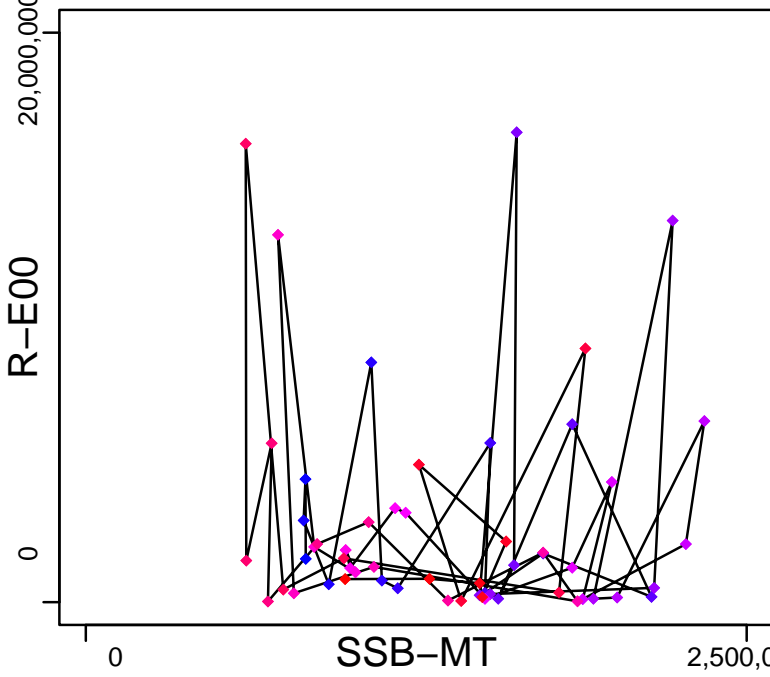
Kobe MSY_{pref} (1966–2021–SISIMP2021–2)



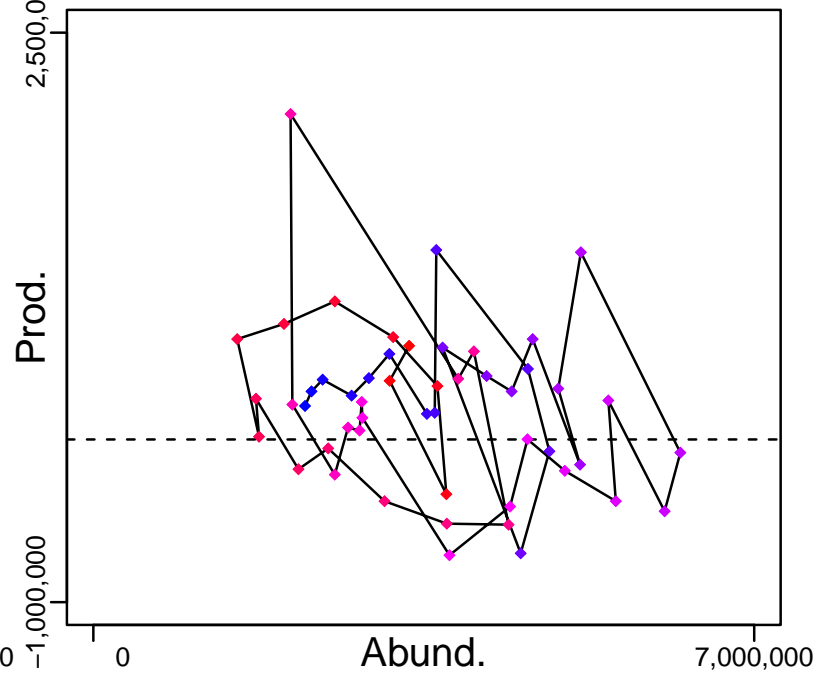
Kobe MGT_{pref} (1966–2021–SISIMP2021–2)



Spawner Recruit (1966–2021–SISIMP2021–2)



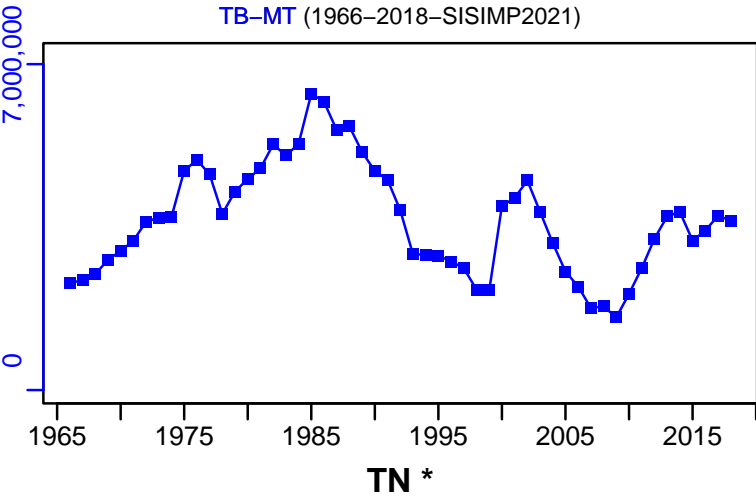
Production (1966–2018–SISIMP2021)



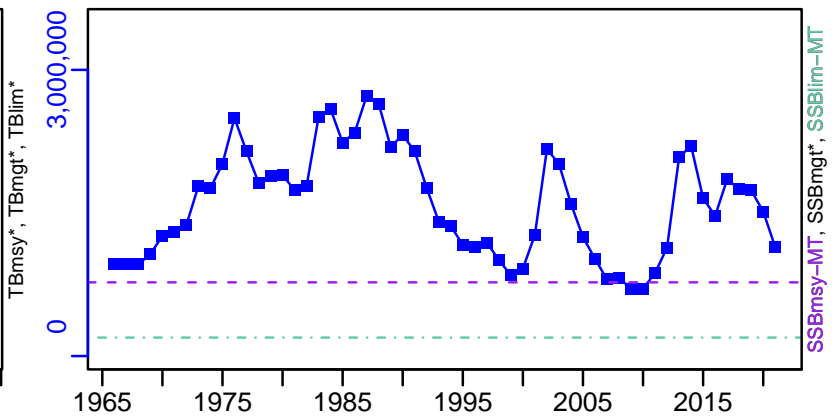
◆ Start Year ◆ End Year * No Data

Pacific hake Pacific Coast [PHAKEPCOAST]

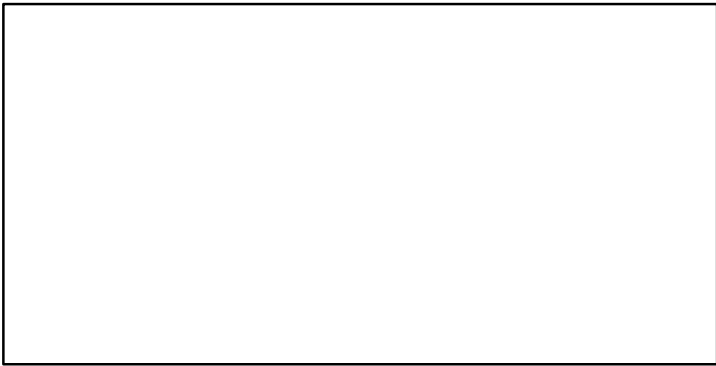
TB-MT (1966–2018–SISIMP2021)



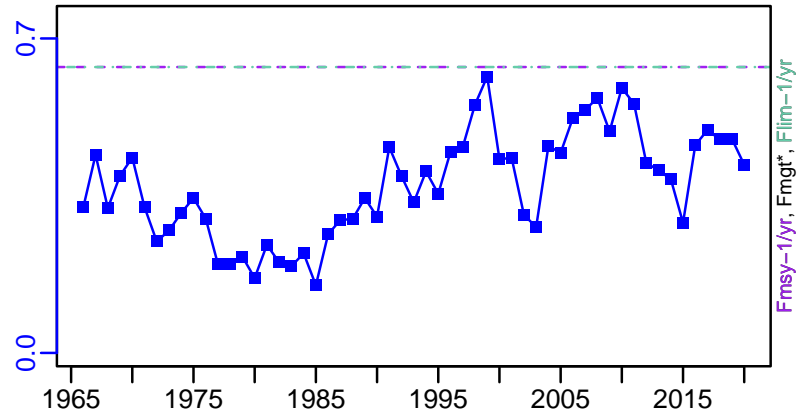
SSB-MT (1966–2021–SISIMP2021–2)



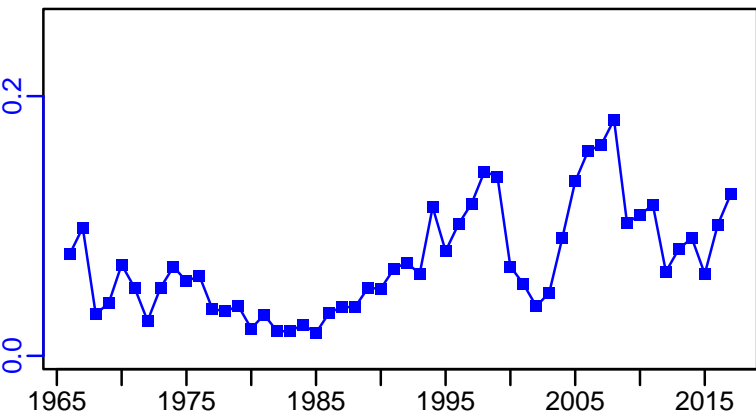
TN *



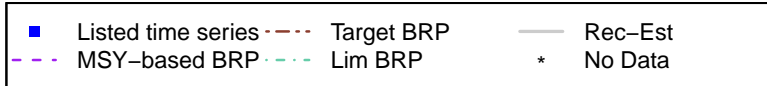
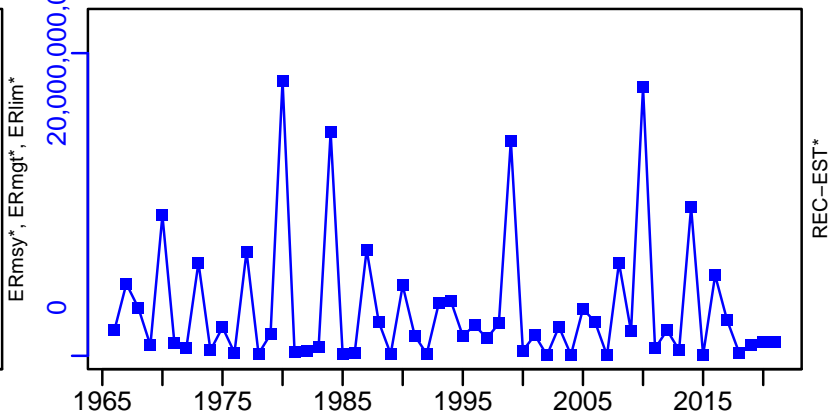
F-1/yr (1966–2021–SISIMP2021–2)



ER-calc-ratio (1966–2018–SISIMP2021)

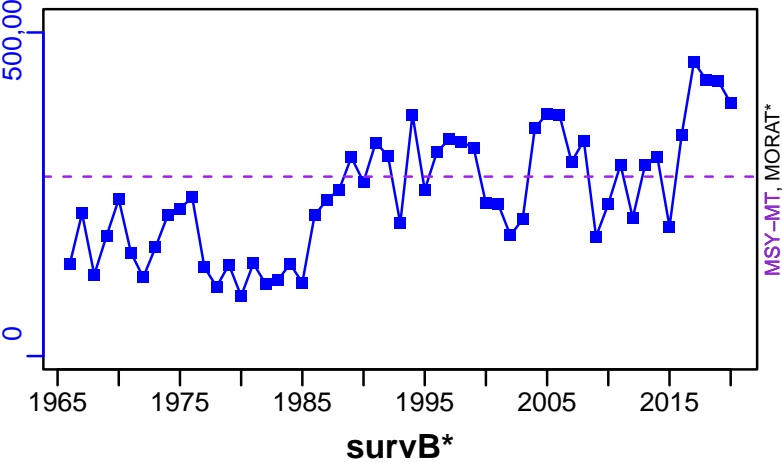


R-E00 (1966–2021–SISIMP2021–2)

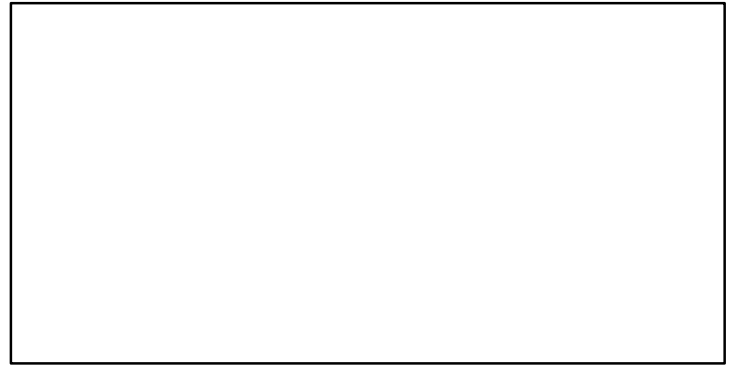


Pacific hake Pacific Coast [PHAKEPCOAST]

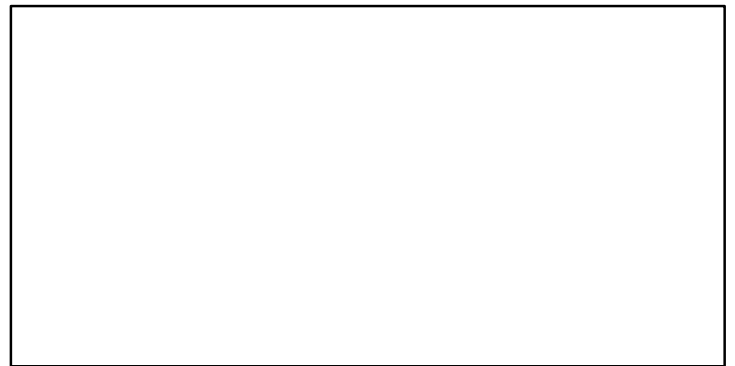
TC-MT, TL*, RecC* (1966-2021-SISIMP2021-2)



TAC*, Cpair*, Cadv*



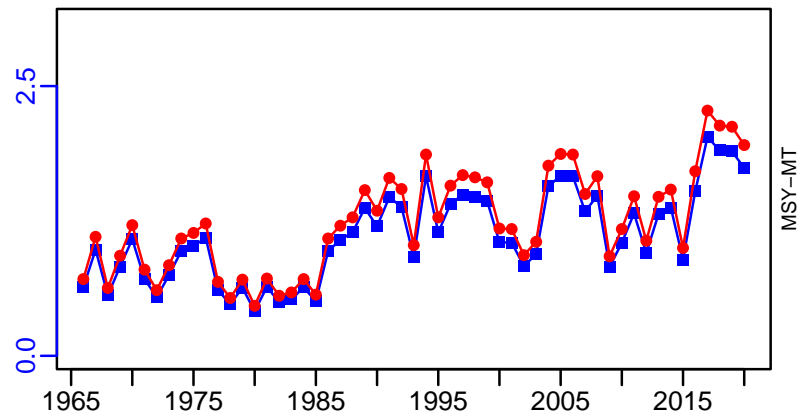
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1966-2021-SISIMP2021-2)



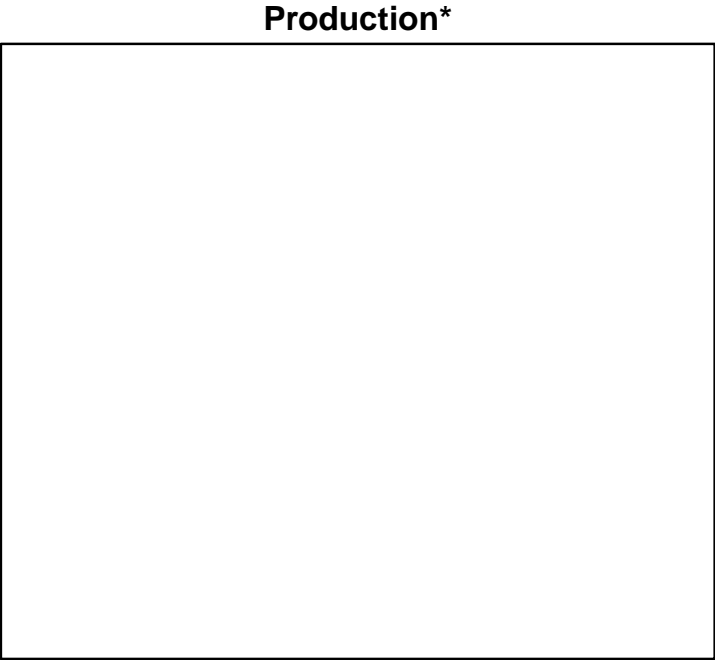
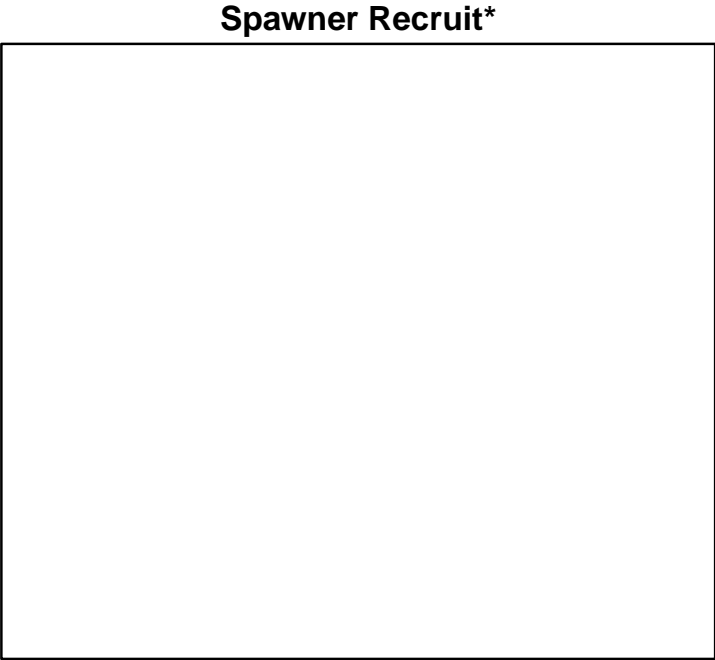
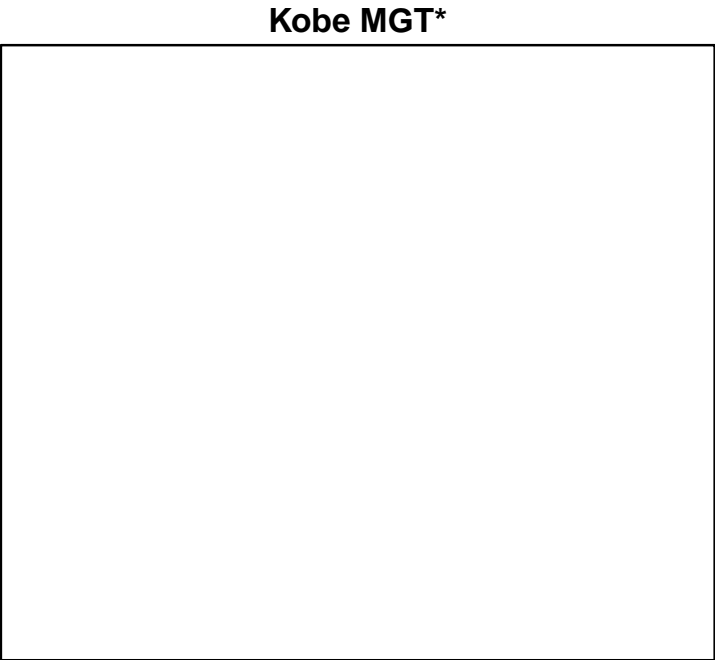
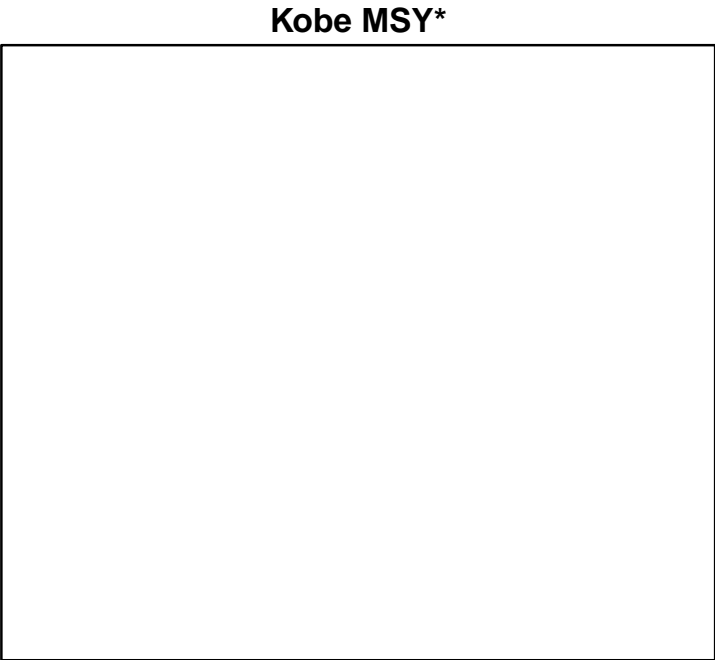
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Pollock St. Pierre Bank [POLL3Ps]

Metadata	
Scientific Name	Pollachius virens
Current Assess ID	DFO-NFLD-POLL3Ps-1960-2018-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, 2018

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

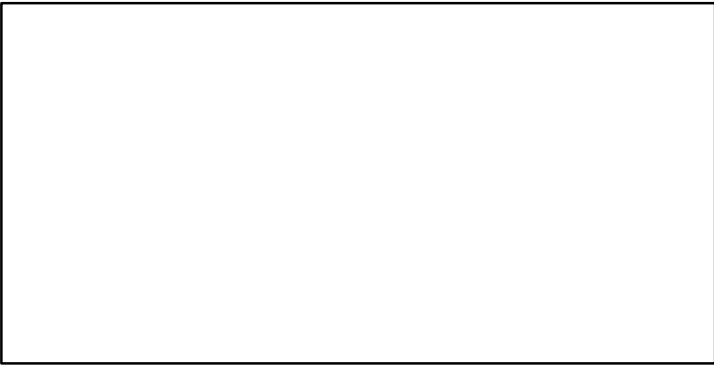
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



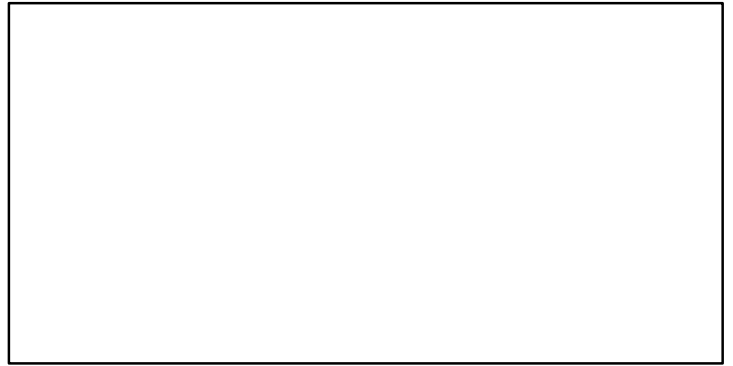
◆ Start Year ◆ End Year * No Data

Pollock St. Pierre Bank [POLL3Ps]

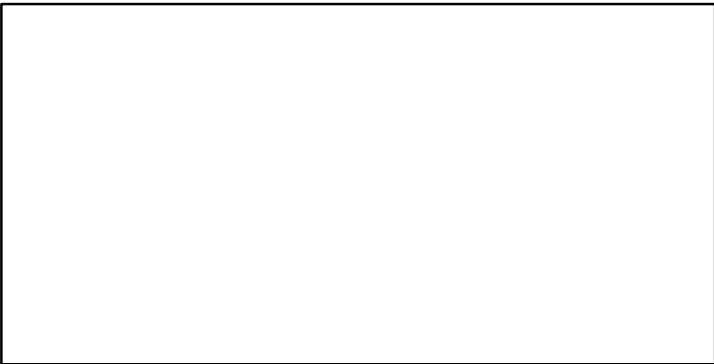
TB*



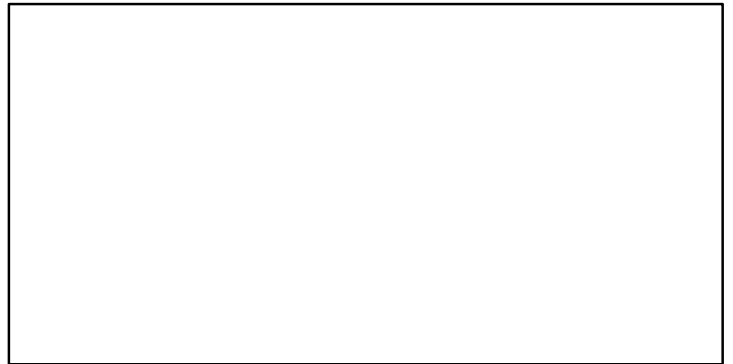
SSB*



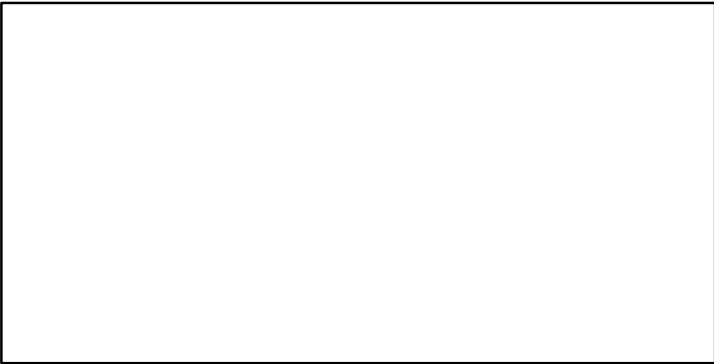
TN *



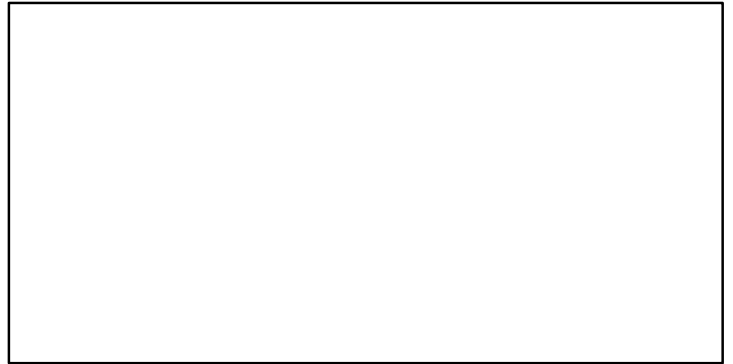
F*



ER*

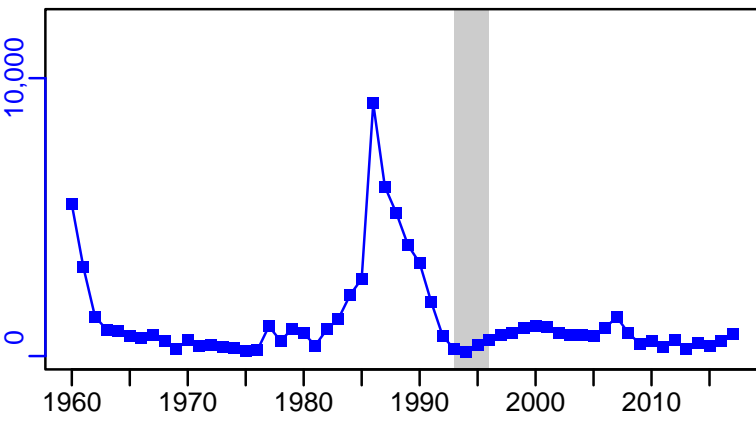


Recruits*

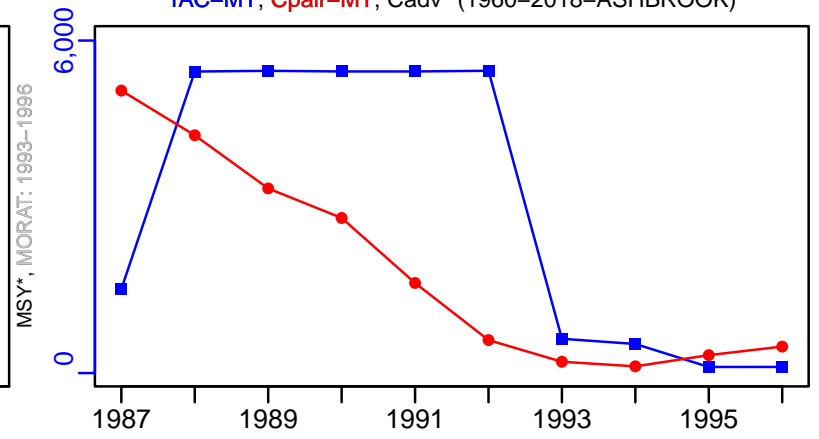


Pollock St. Pierre Bank [POLL3Ps]

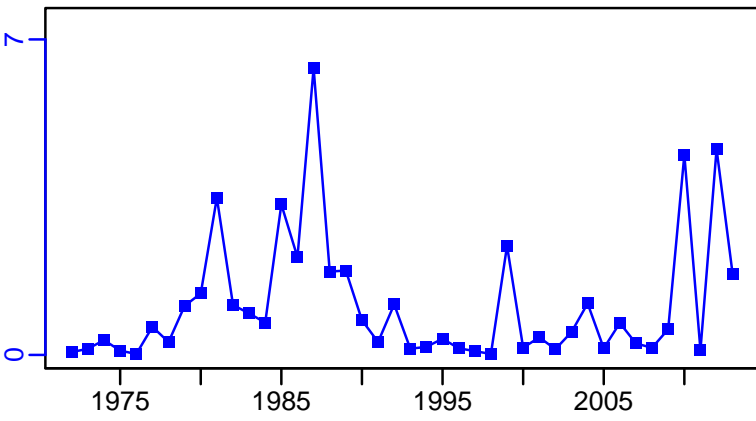
TL-MT, TC*, RecC* (1960–2018–ASHBROOK)



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

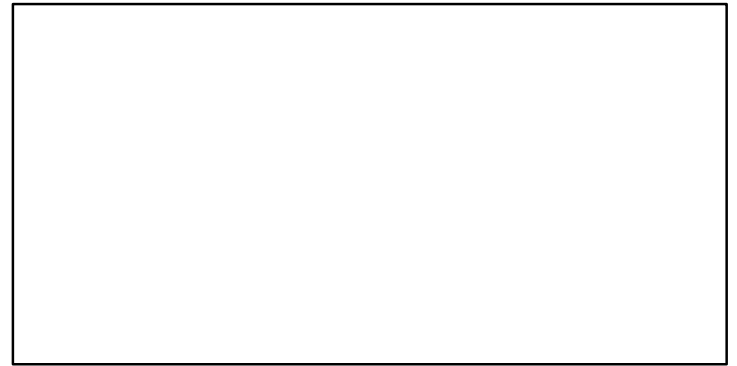


survB–kg/tow (1960–2013–OSGOOD)

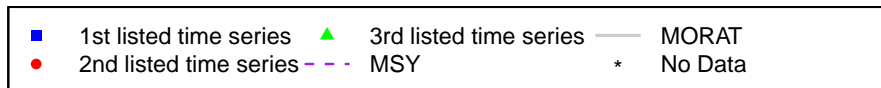


EFFORT*

CPUE*



CdivMSY*



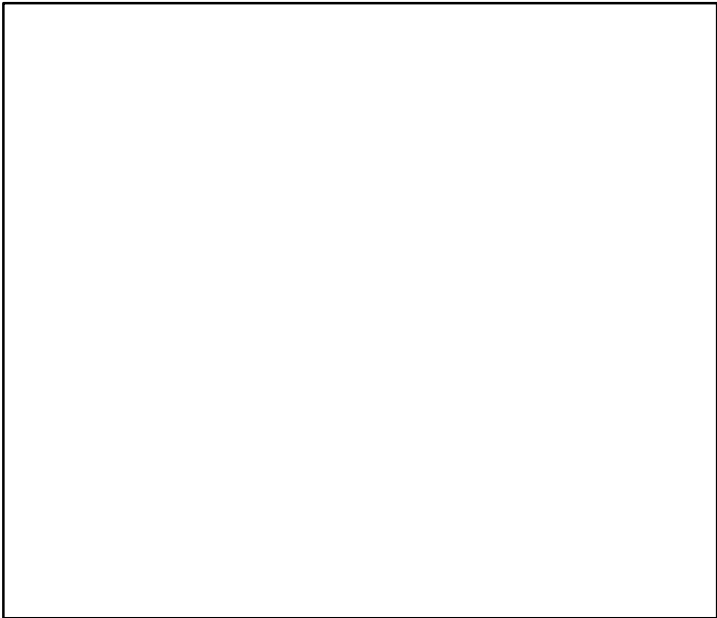
Pollock Scotian Shelf and Bay of Fundy [POLL4VWX]

Metadata	
Scientific Name	Pollachius virens
Current Assess ID	DFO-MAR-POLL4VWX-1982-2011-OSGOOD
Area	Scotian Shelf and Bay of Fundy
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2011

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	2011	1430		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

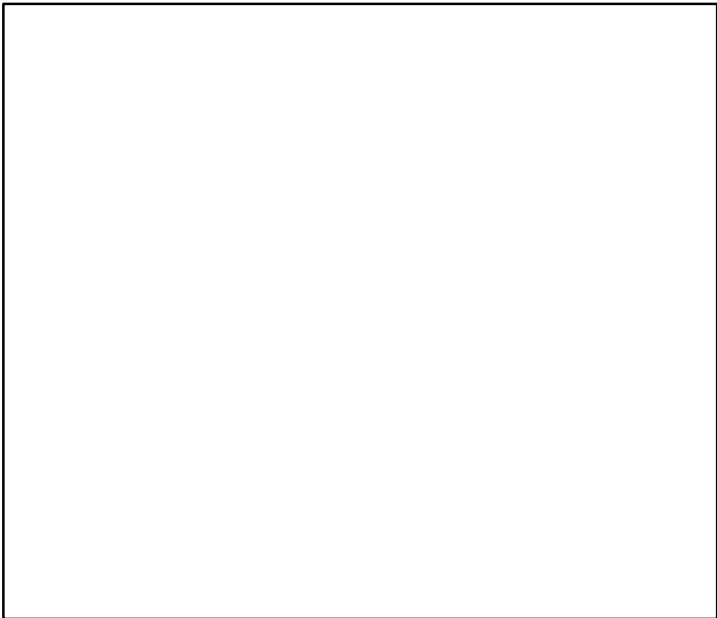
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Pollock Scotian Shelf and Bay of Fundy [POLL4VWX]

TB*



SSB*



TN *



F*



ER*

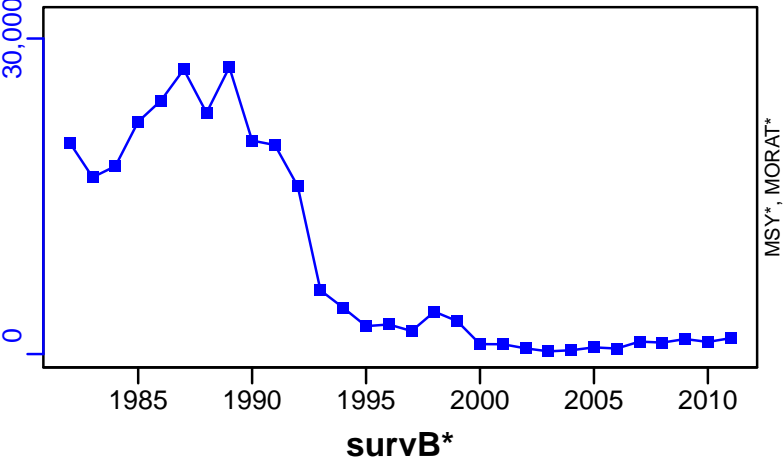


Recruits*

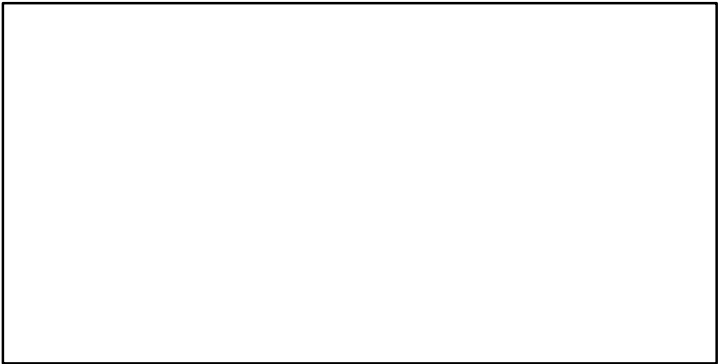


Pollock Scotian Shelf and Bay of Fundy [POLL4VWX]

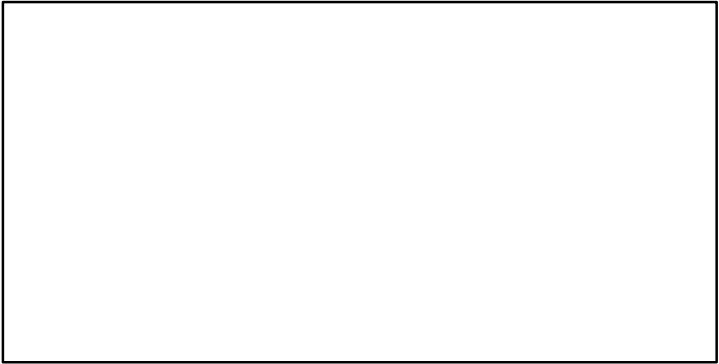
TL-MT, TC*, RecC* (1982-2011-OSGOOD)



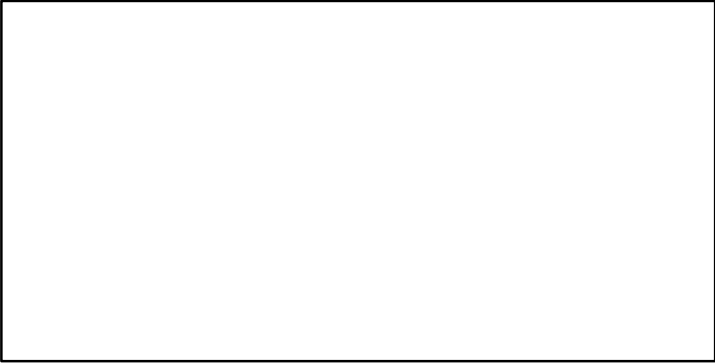
TAC*, Cpair*, Cadv*



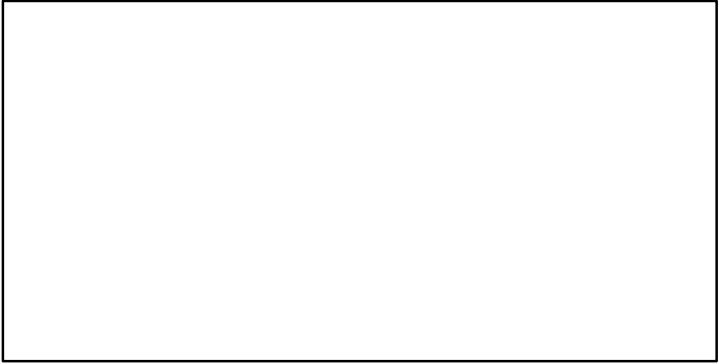
CPUE*



EFFORT*



CdivMSY*



Pollock Gulf of Maine / Georges Bank [POLL5YZ]

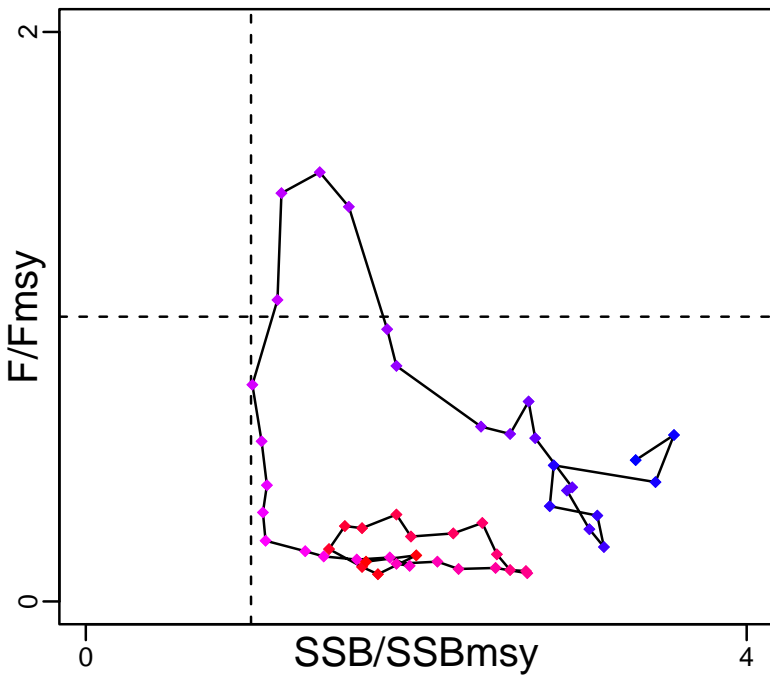
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	NEFSC-POLL5YZ-1960-2018-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2018, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	125,000
Fmsy	Fmsy-1/yr	2018	0.272
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	19,678
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	62,300
Flim	Flim-1/yr	2018	0.272
ERlim	-	-	-

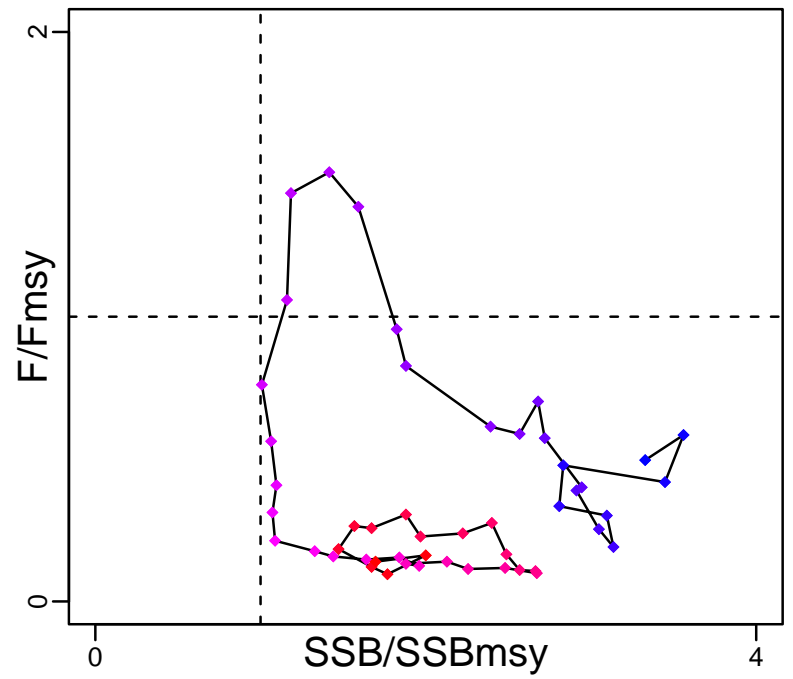
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	210,000	-	-
SSB	SSB-MT	2018	212,000	-	-
TN	-	-	-	-	-
R	R-E00	2018	24,200,000	-	1
F	F-1/yr	2018	0.038	-	-
ER	ER-calc-ratio	2009	0.042	-	-
TC	TC-MT	2018	4780		
TL	TL-MT	2009	7950		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.696		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.14		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

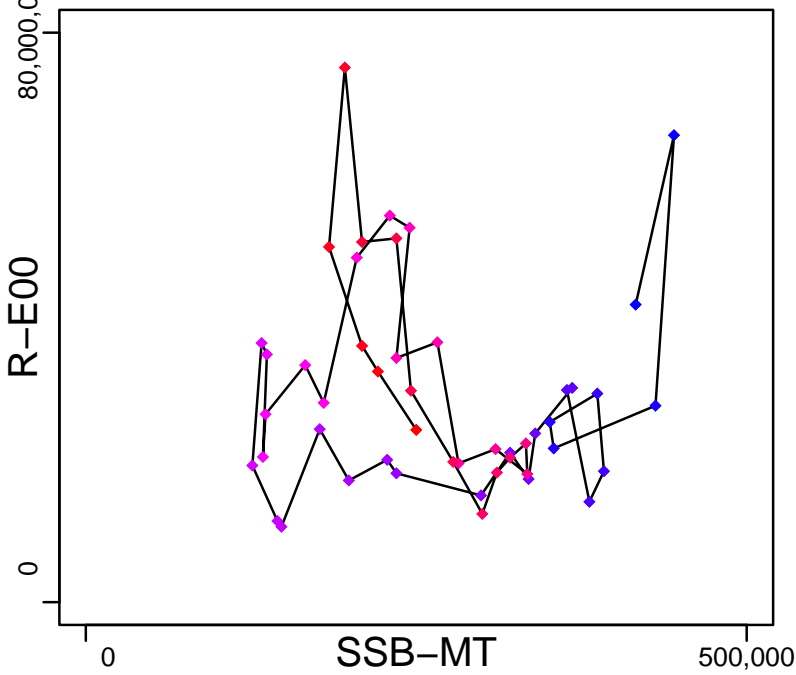
Kobe MSYpref (1960–2018–SISIMP2021–2)



Kobe MGTpref (1960–2018–SISIMP2021–2)



Spawner Recruit (1960–2018–SISIMP2021–2)

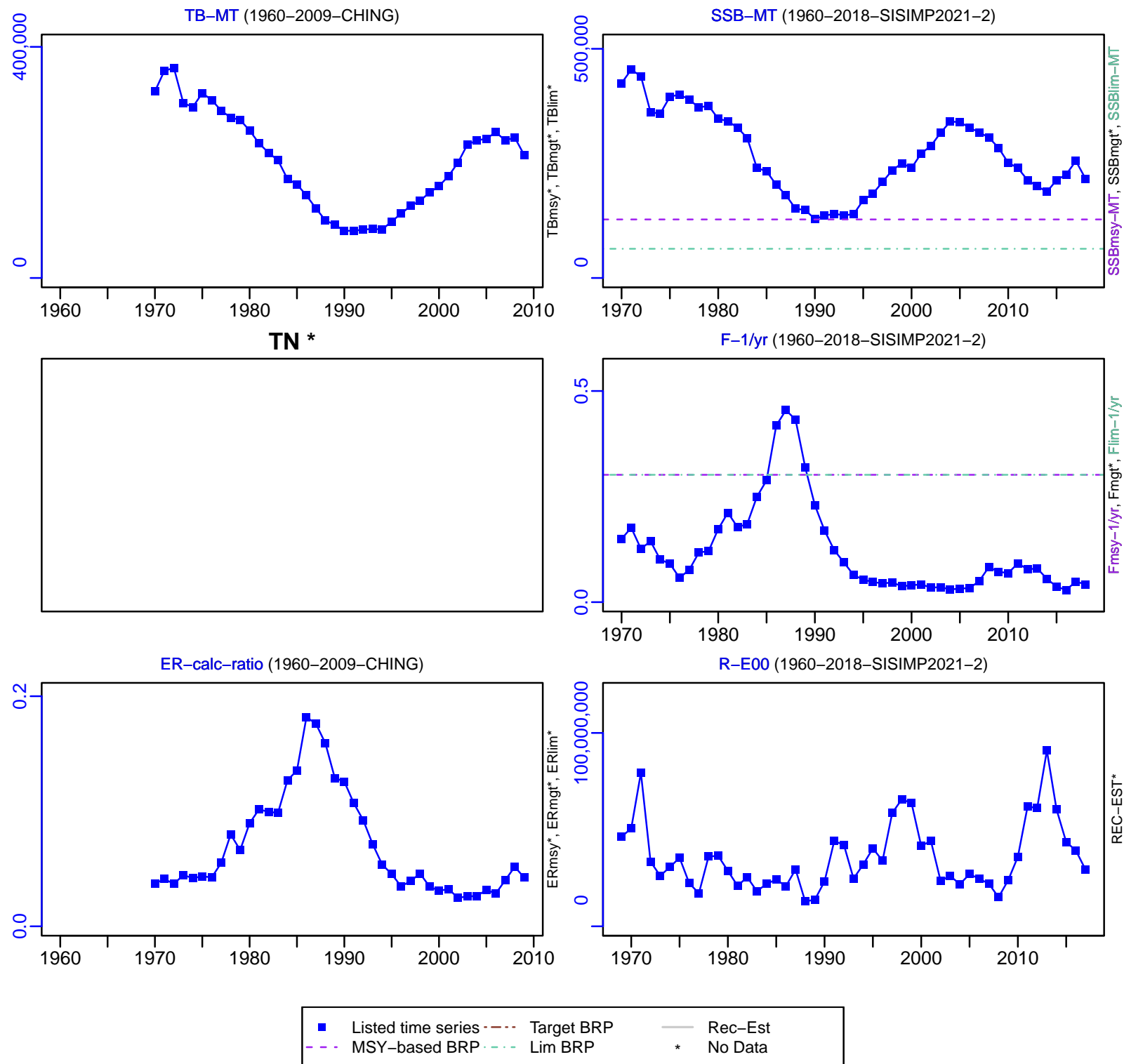


Production*



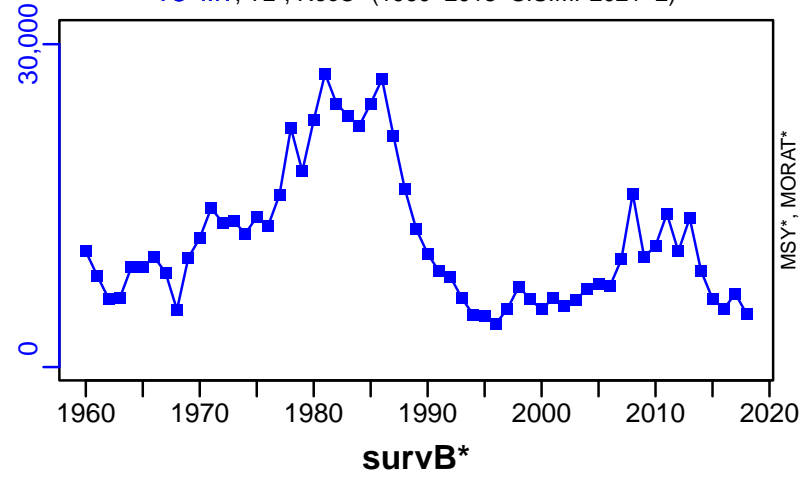
◆ Start Year ◆ End Year * No Data

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

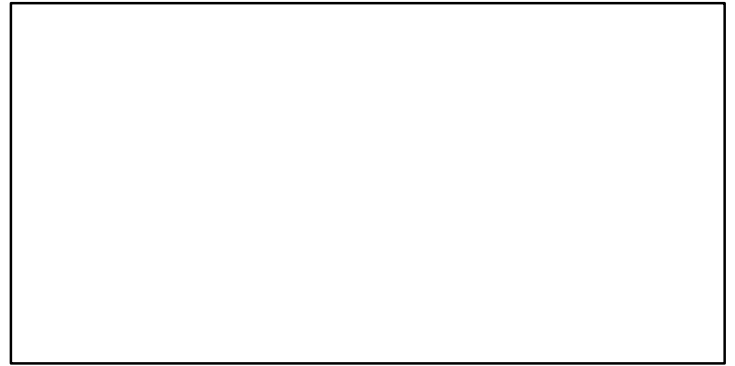


Pollock Gulf of Maine / Georges Bank [POLL5YZ]

TC-MT, TL*, RecC* (1960–2018–SISIMP2021–2)



TAC*, Cpair*, Cadv*



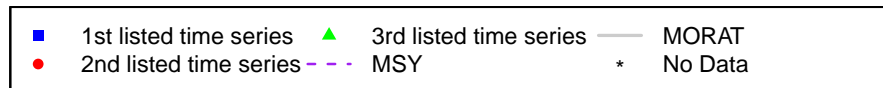
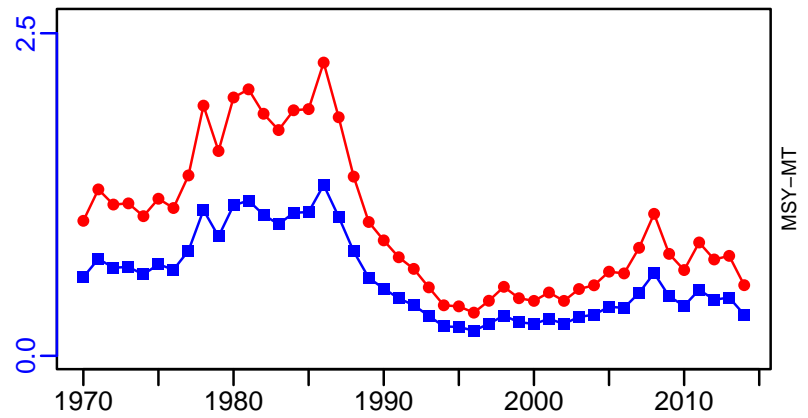
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970–2014–SISIMP2016)



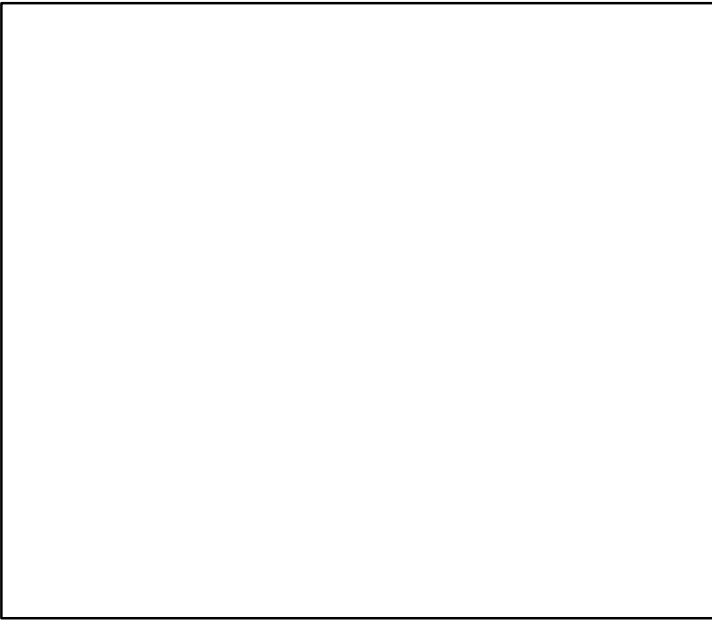
Saithe Faroe Plateau [POLLFAPL]

Metadata	
Scientific Name	Pollachius virens
Current Assess ID	NWWG-POLLFAPL-1958-2023-ICESIMP2024
Area	Faroe Plateau
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, 2021, 2023, 2020

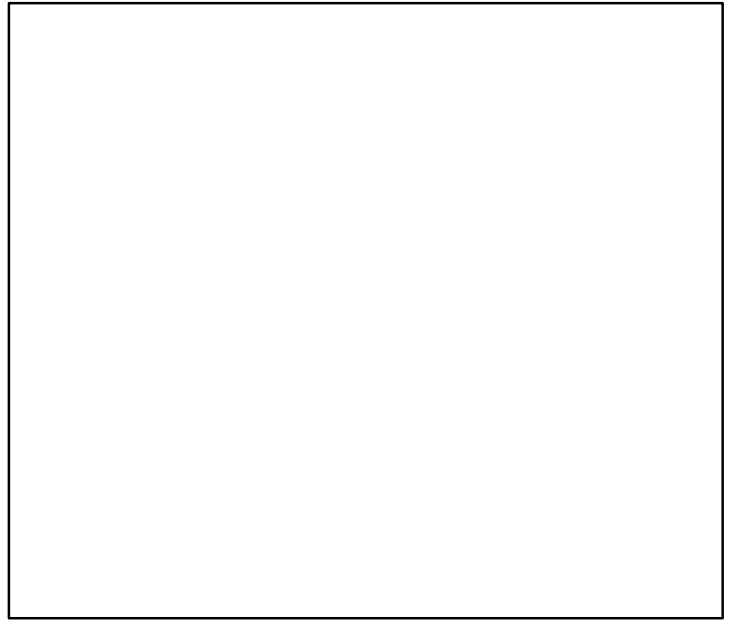
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.38
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.38
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	24,990
Flim	Flim-1/yr	2023	0.98
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2023	71,665	-	-
SSB	SSB-MT	2023	49,125	-	-
TN	-	-	-	-	-
R	R-E00	2023	5451	-	3
F	F-1/yr	2023	0.211	-	4 to 8
ER	ER-calc-ratio	2023	0.108	-	-
TC	TC-MT	2023	7751		
TL	TL-MT	2023	7751		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.555		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.555		
ER/ERmgt	-	-	-		

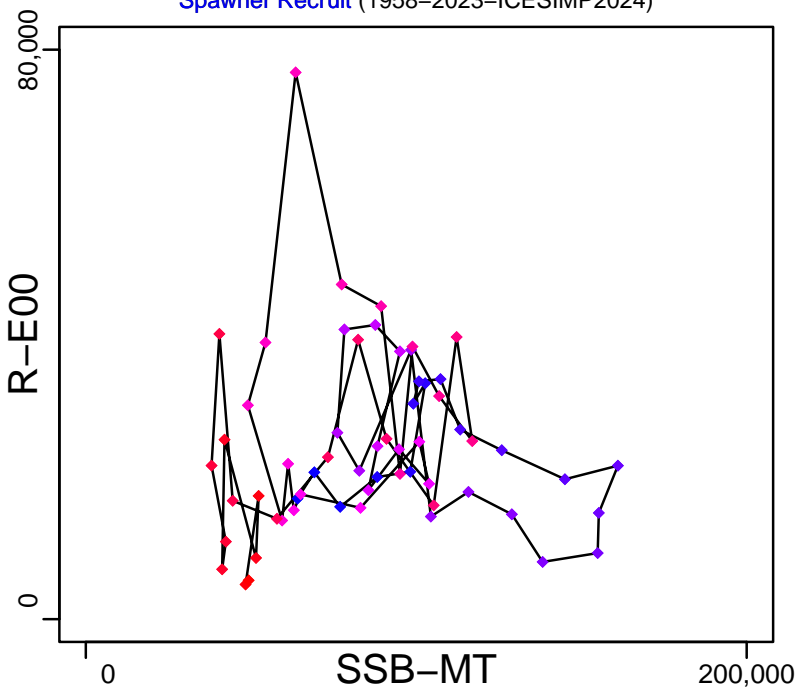
Kobe MSY*



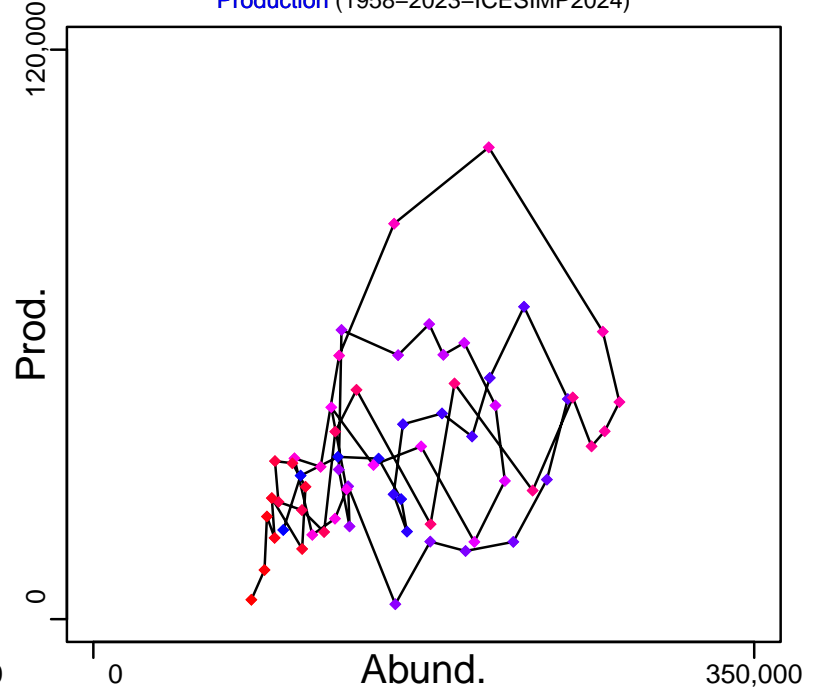
Kobe MGT*



Spawner Recruit (1958–2023–ICESIMP2024)



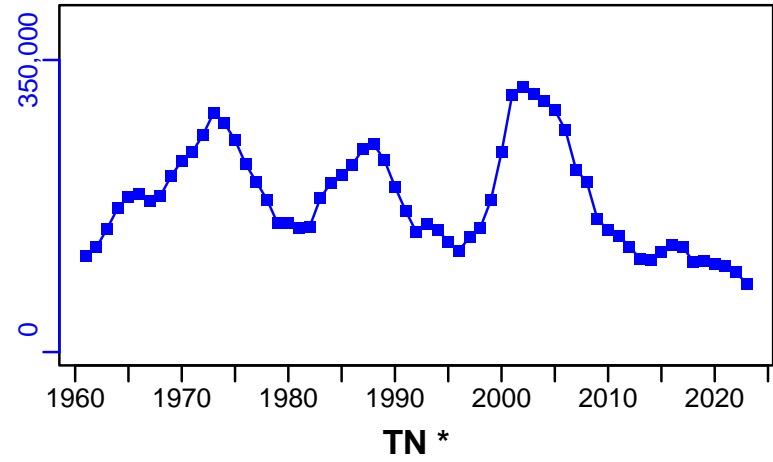
Production (1958–2023–ICESIMP2024)



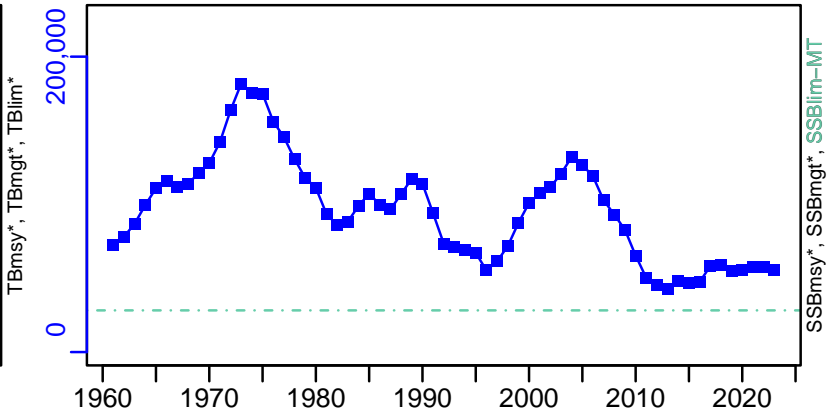
◆ Start Year ◆ End Year * No Data

Saithe Faroe Plateau [POLLFAPL]

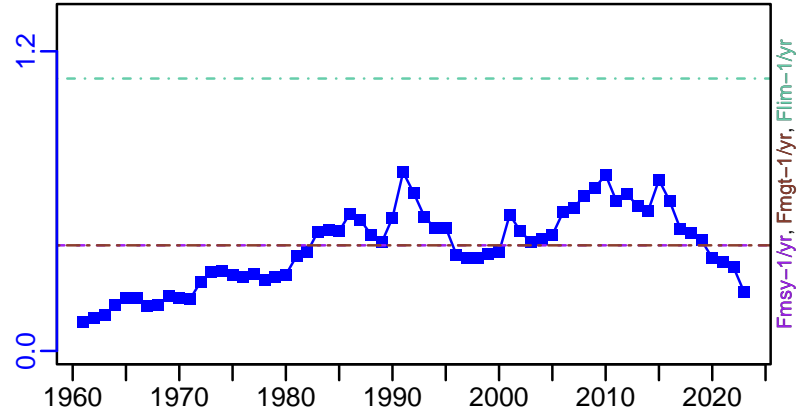
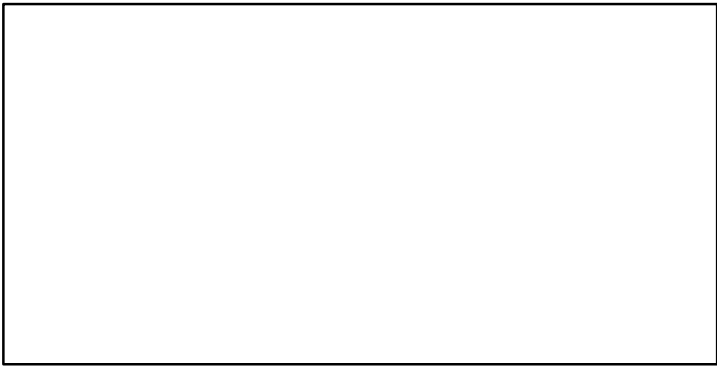
TB-MT (1958–2023–ICESIMP2024)



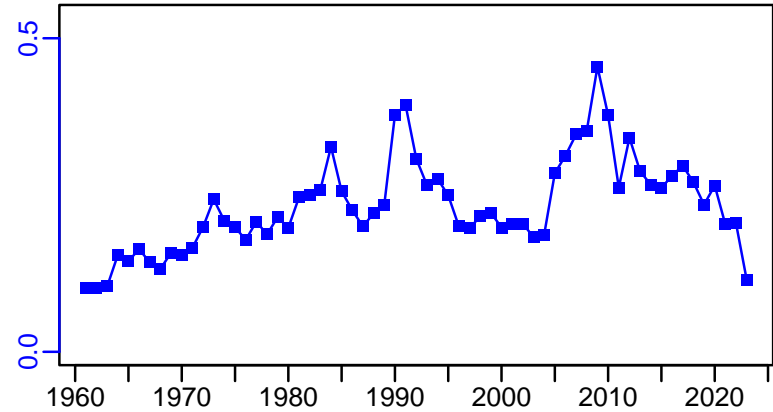
SSB-MT (1958–2023–ICESIMP2024)



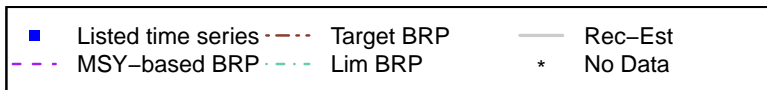
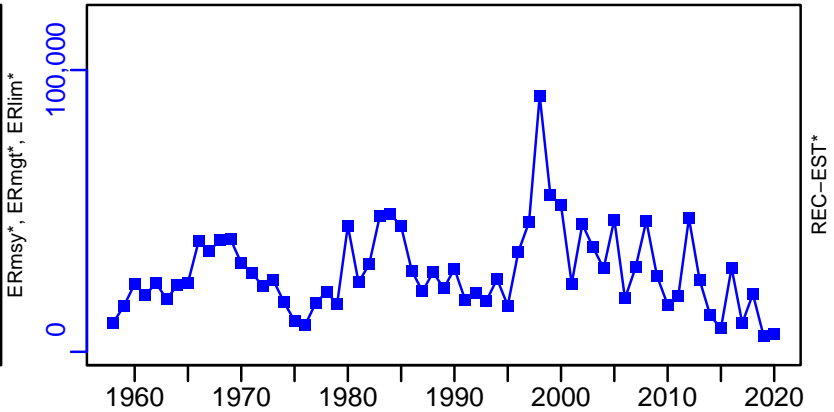
F-1/yr (1958–2023–ICESIMP2024)



ER-calc-ratio (1958–2023–ICESIMP2024)

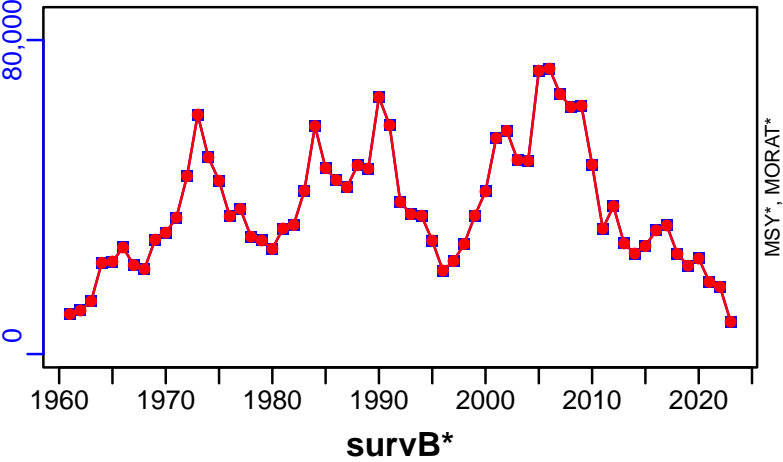


R-E00 (1958–2023–ICESIMP2024)

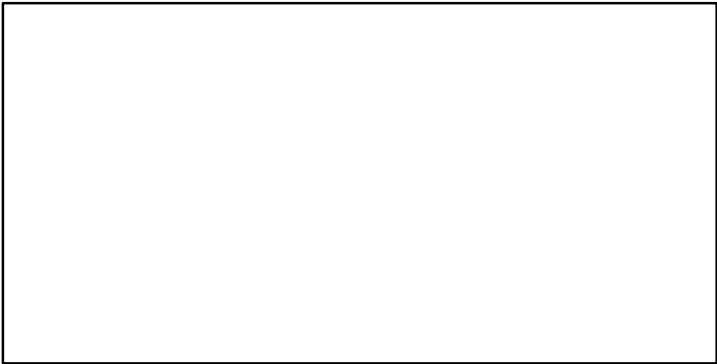


Saithe Faroe Plateau [POLLFAPL]

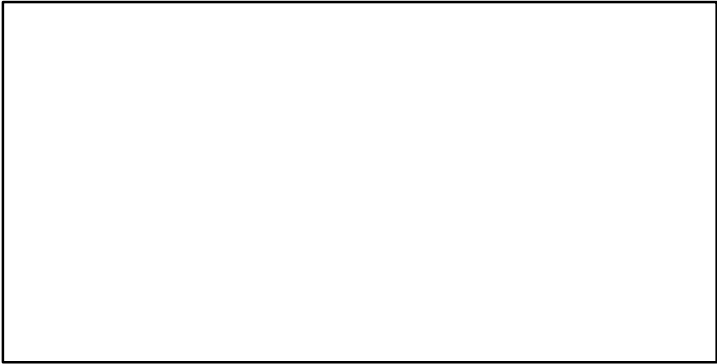
TC-MT, TL-MT, RecC* (1958–2023–ICESIMP2024)



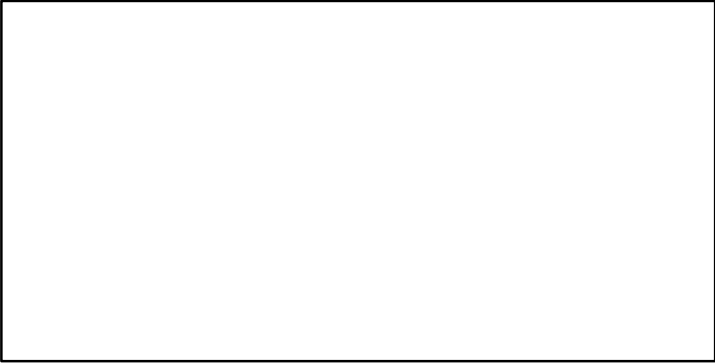
TAC*, Cpair*, Cadv*



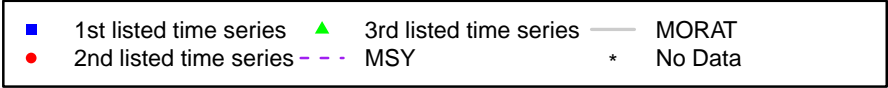
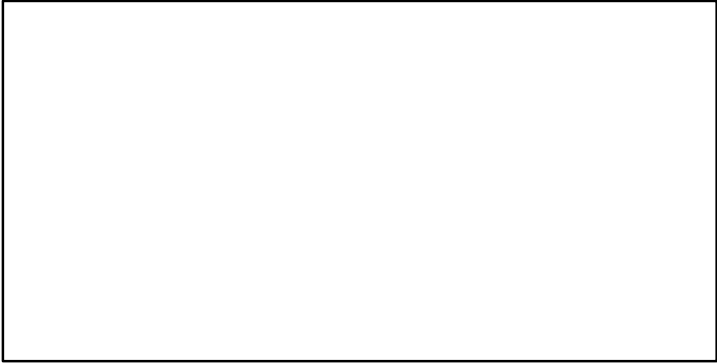
CPUE*



EFFORT*



CdivMSY*



Saithe Iceland Grounds [POLLIEG]

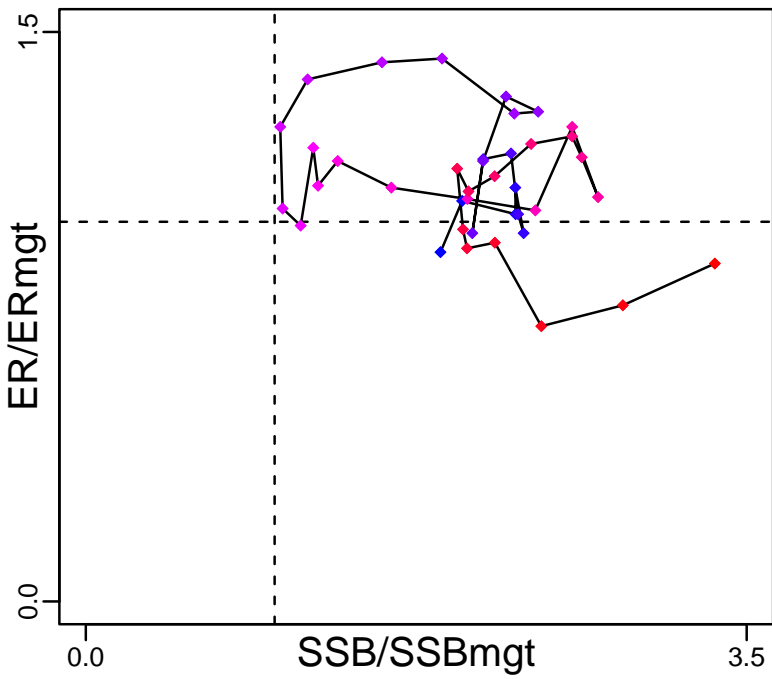
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	NWWG-POLLIEG-1977-2023-ICESIMP2024
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.28
ERmsy	ERmsy-ratio	2018	0.2
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	61,000
Fmgt	Fmgt-1/yr	2023	0.2
ERmgt	ERmgt-ratio	2019	0.2
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	65,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	44,000
Flim	Flim-1/yr	2018	0.46
ERlim	-	-	-

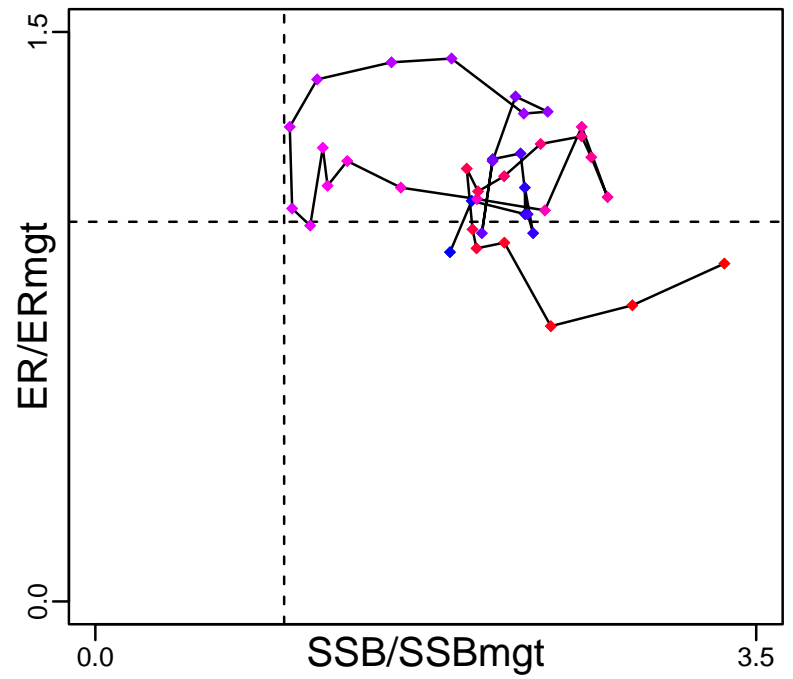
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	306,000	Both	-
SSB	SSB-MT	2023	142,362	-	-
TN	-	-	-	-	-
R	R-E00	2023	32,332	-	3
F	F-1/yr	2019	0.17	-	4 to 9
ER	ER-ratio	2023	0.213	-	4 to 9
TC	TC-MT	2023	61,872		
TL	TL-MT	2023	61,872		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.929		
ER/ERmsy	ER-ratio/ERmsy-ratio	2018	0.605		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	2.334		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Saithe Iceland Grounds [POLLIEG]

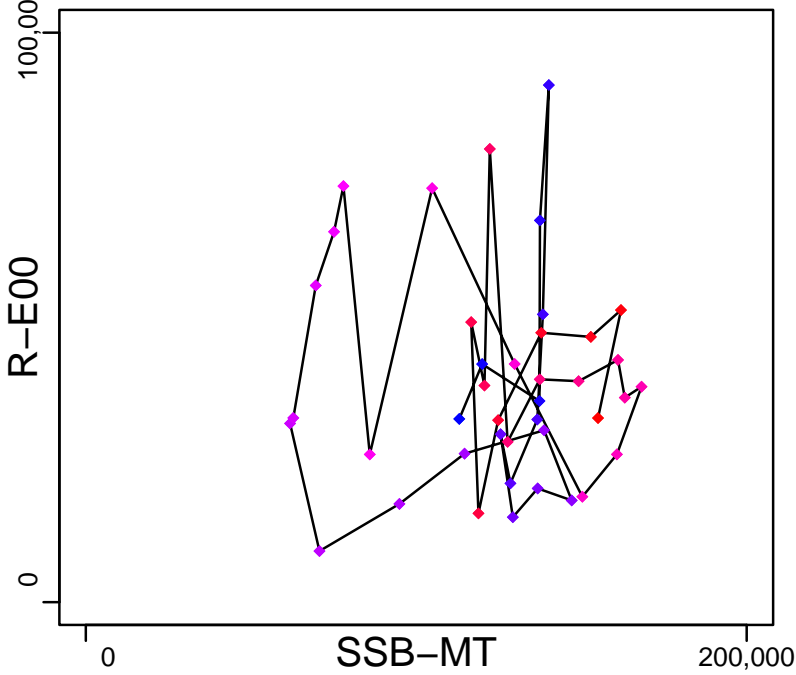
Kobe MSYpref (1977–2019–ICESIMP2021)



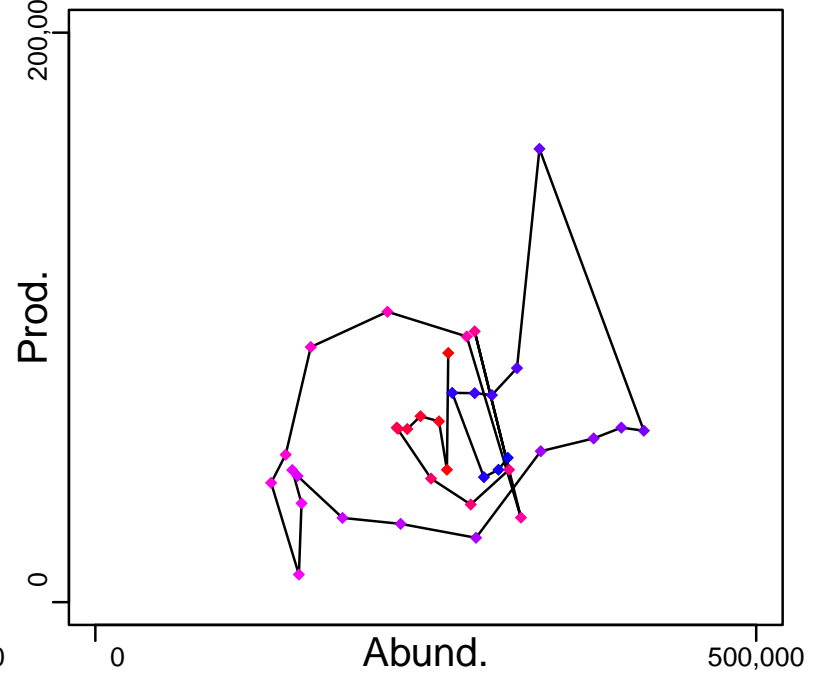
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1977–2023–ICESIMP2024)



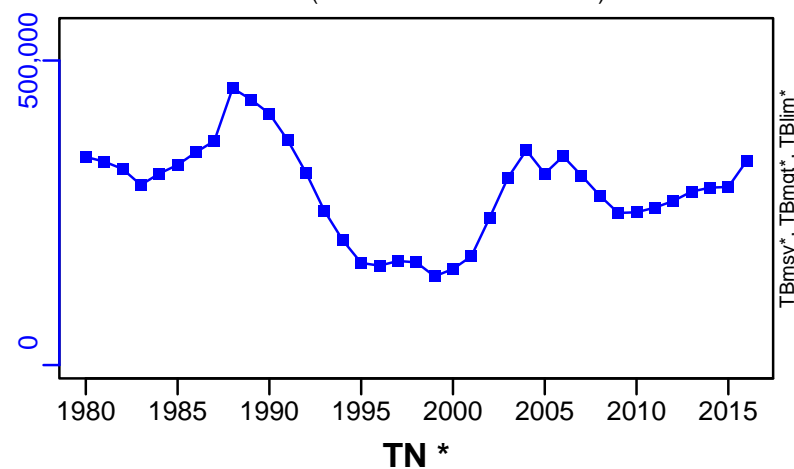
Production (1977–2017–ICESIMP2018)



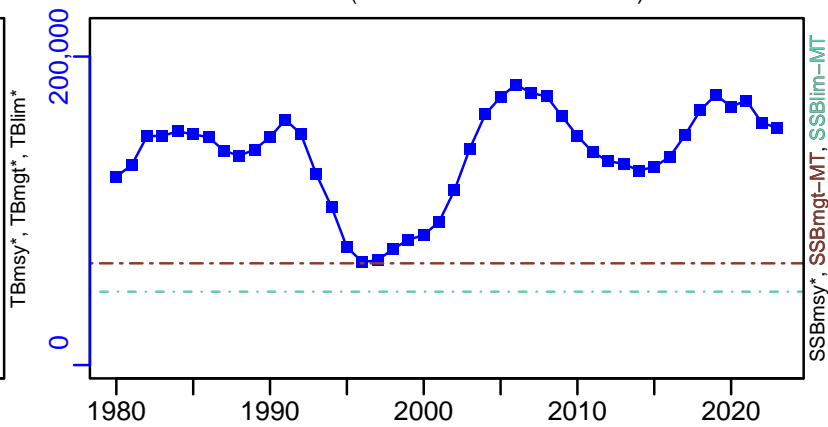
◆ Start Year ◆ End Year * No Data

Saithe Iceland Grounds [POLLIEG]

TB-MT (1977–2017–ICESIMP2018)



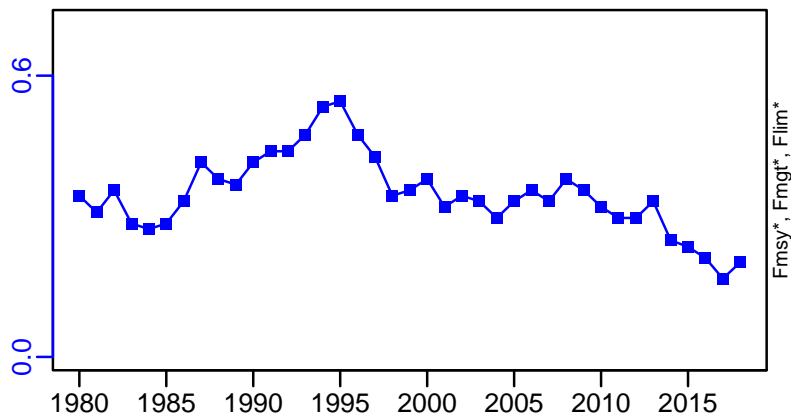
SSB-MT (1977–2023–ICESIMP2024)



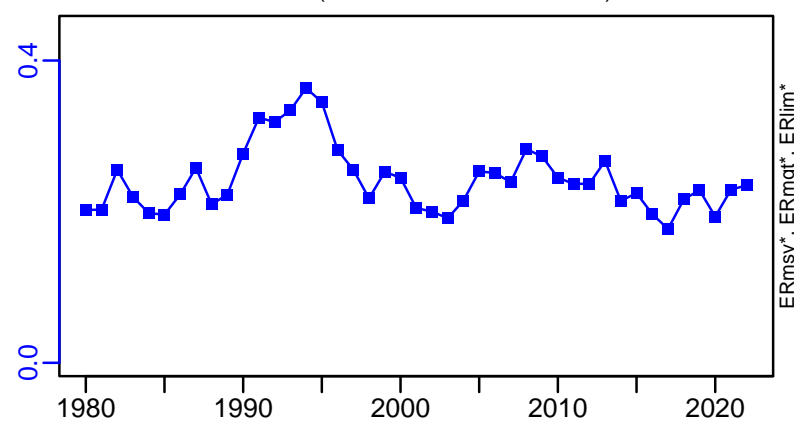
TN *



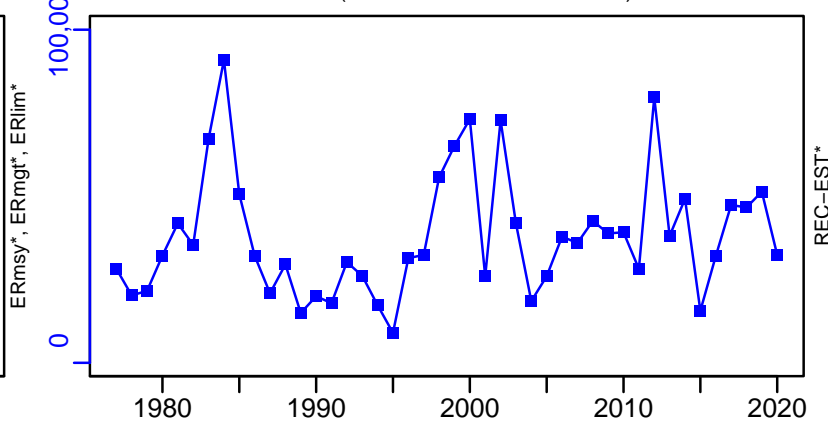
F-1/yr (1977–2019–ICESIMP2021)



ER-ratio (1977–2023–ICESIMP2024)

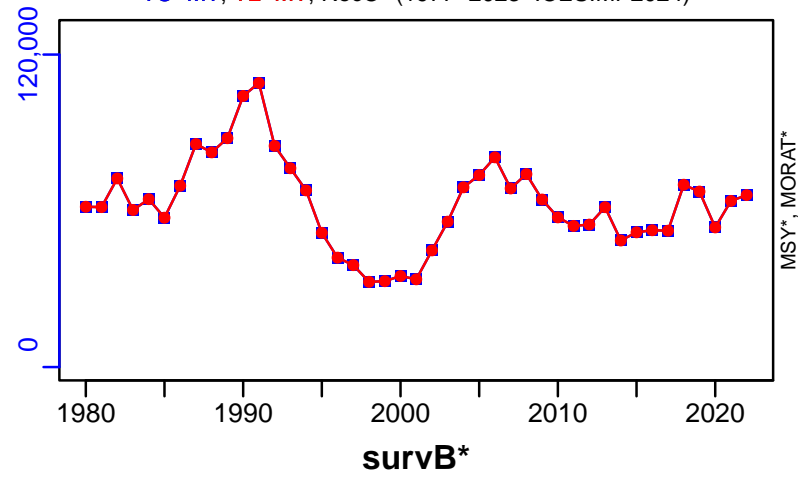


R-E00 (1977–2023–ICESIMP2024)

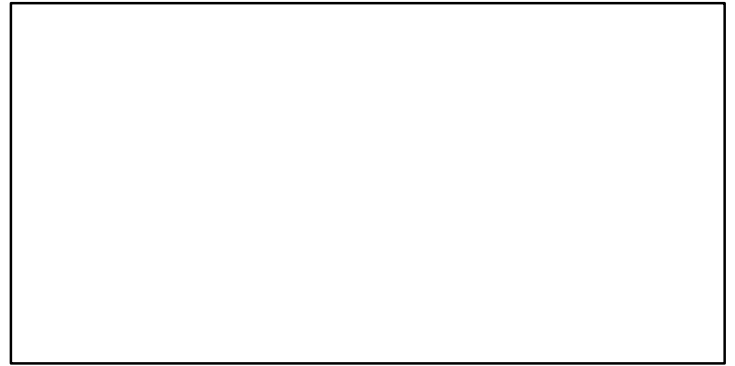


Saithe Iceland Grounds [POLLIEG]

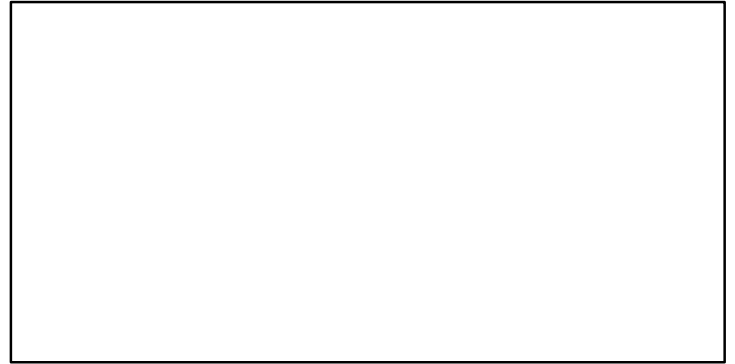
TC-MT, TL-MT, RecC* (1977-2023-ICESIMP2024)



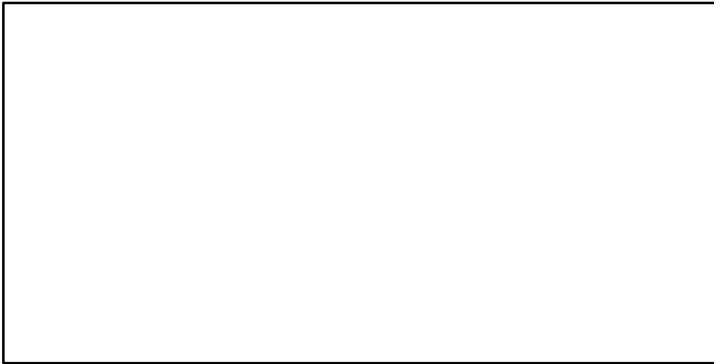
TAC*, Cpair*, Cadv*



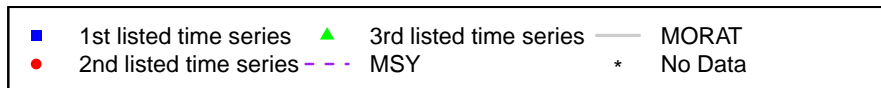
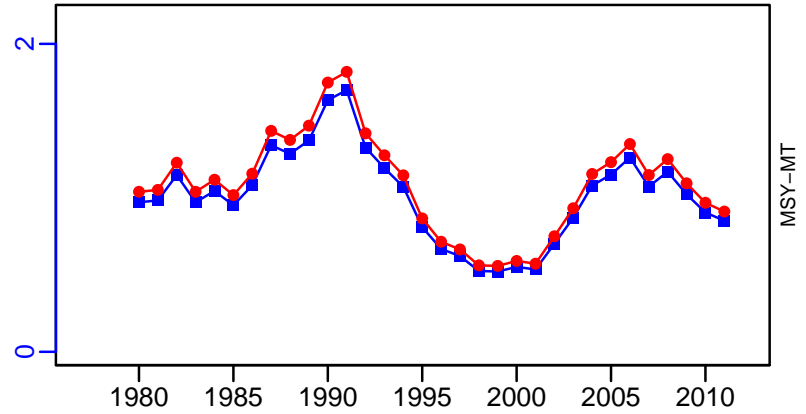
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1977-2012-CHING)



Saithe North-East Arctic [POLLNEAR]

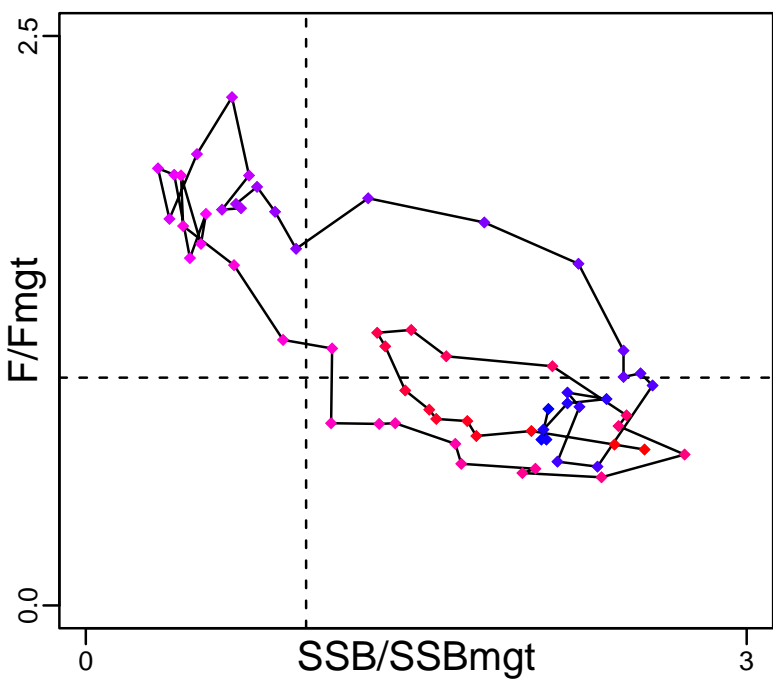
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	AFWG-POLLNEAR-1960-2021-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Arctic Fisheries Working Group
Asmts in RAM	2012, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	220,000
Fmgt	Fmgt-1/yr	2021	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	136,000
Flim	Flim-1/yr	2021	0.58
ERlim	-	-	-

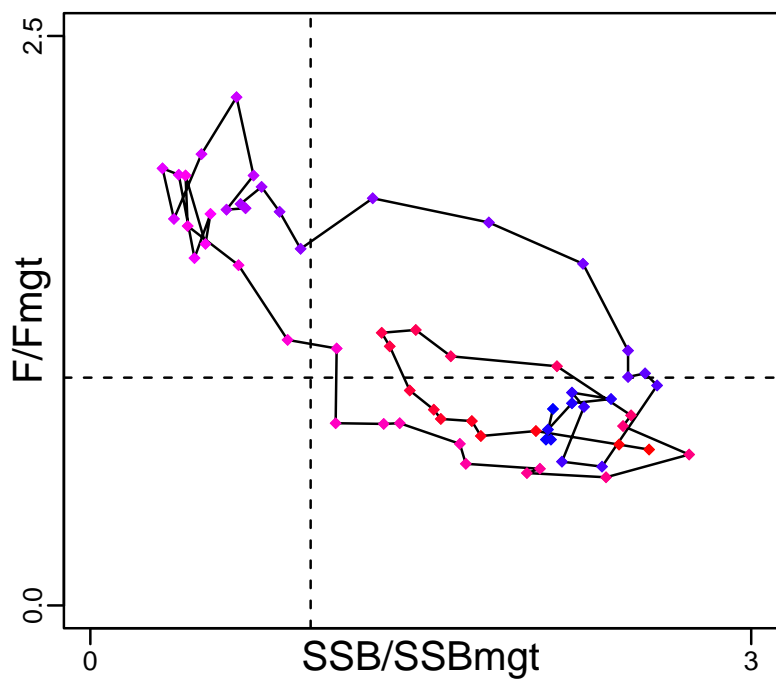
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	909,053	-	-
SSB	SSB-MT	2021	569,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.6×10^8	-	3
F	F-1/yr	2021	0.219	-	-
ER	ER-calc-ratio	2019	0.199	-	-
TC	TC-MT	2021	169,000		
TL	TL-MT	2021	169,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.586		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.684		
ER/ERmgt	-	-	-		

Saithe North-East Arctic [POLLNEAR]

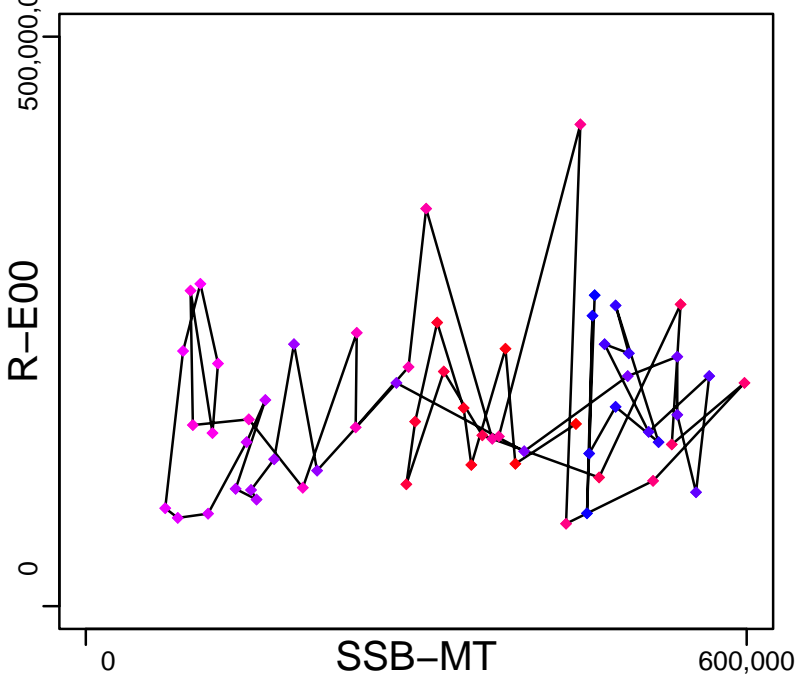
Kobe MSYpref (1960–2021–ICESIMP2021–2)



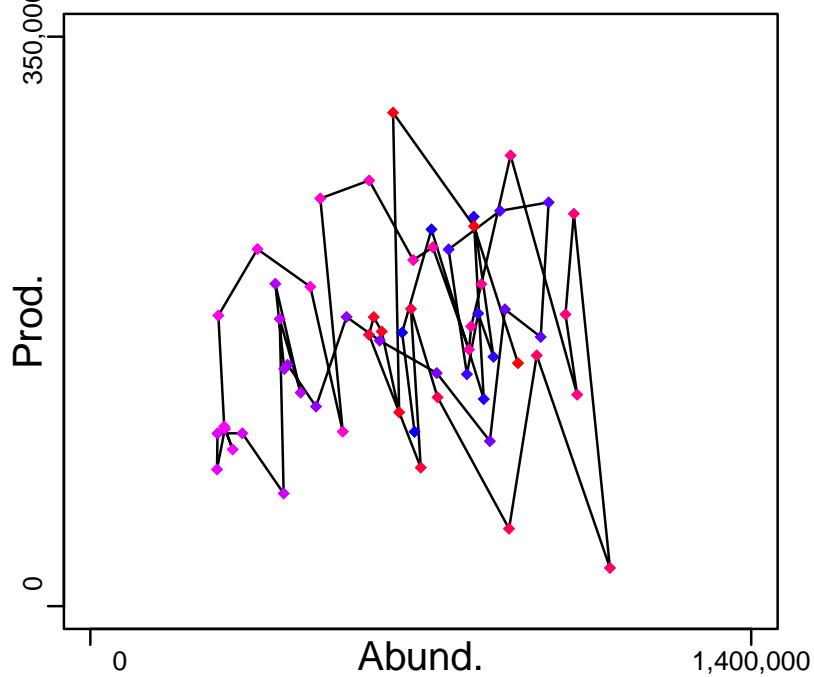
Kobe MGTpref (1960–2021–ICESIMP2021–2)



Spawner Recruit (1960–2021–ICESIMP2021–2)



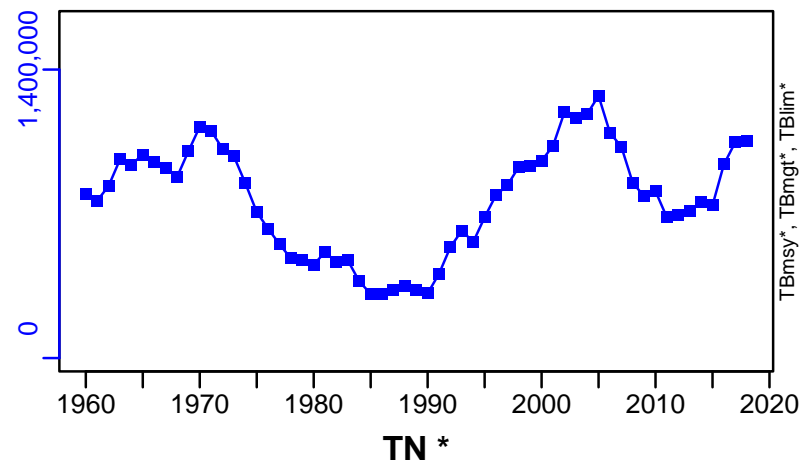
Production (1957–2019–ICESIMP2021)



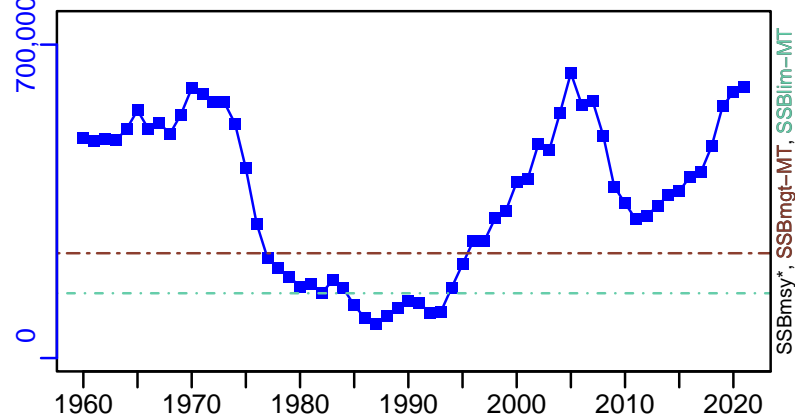
◆ Start Year ◆ End Year * No Data

Saithe North-East Arctic [POLLNEAR]

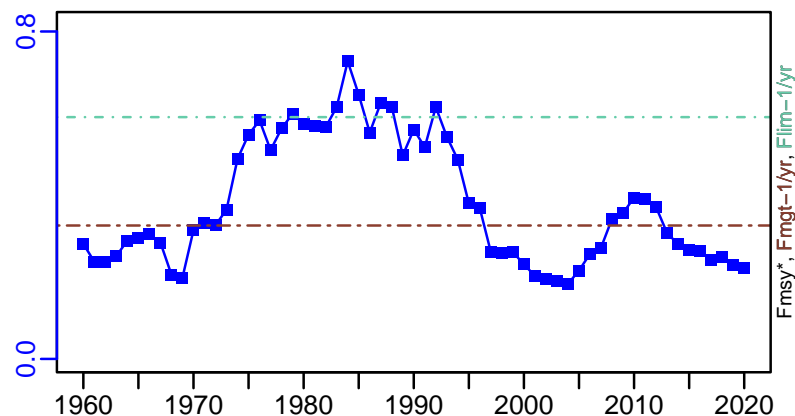
TB-MT (1957–2019–ICESIMP2021)



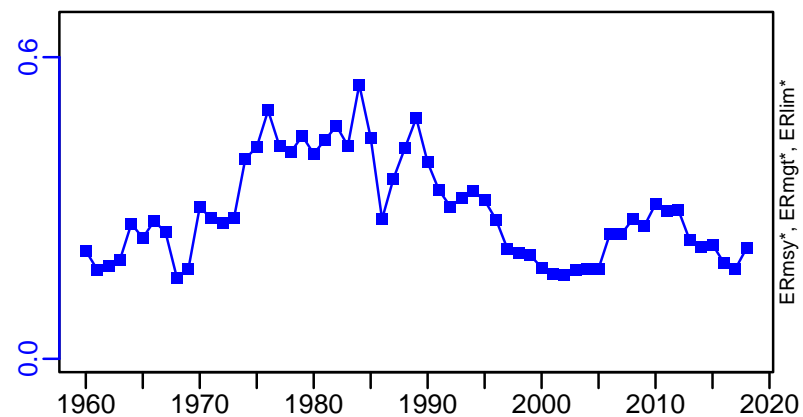
SSB-MT (1960–2021–ICESIMP2021–2)



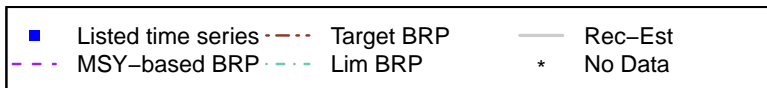
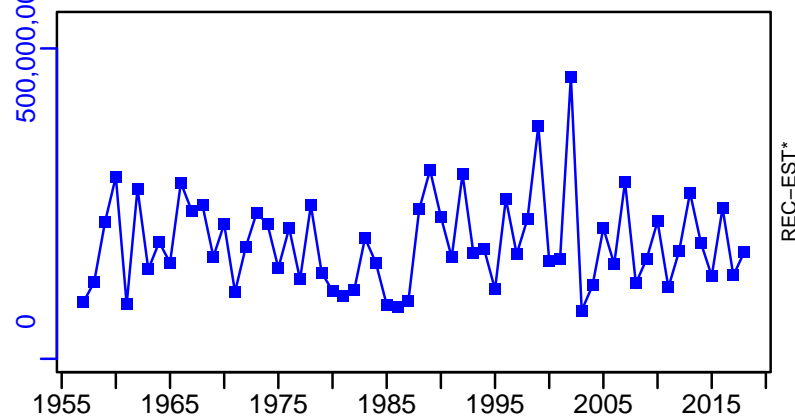
F-1/yr (1960–2021–ICESIMP2021–2)



ER-calc-ratio (1957–2019–ICESIMP2021)

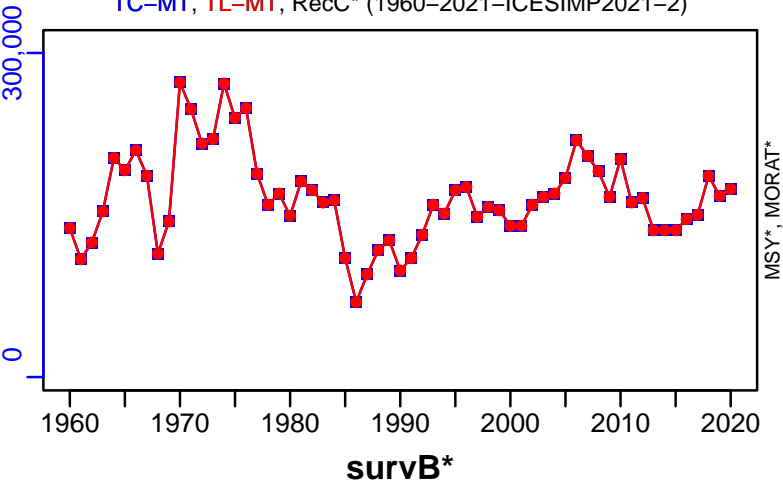


R-E00 (1960–2021–ICESIMP2021–2)

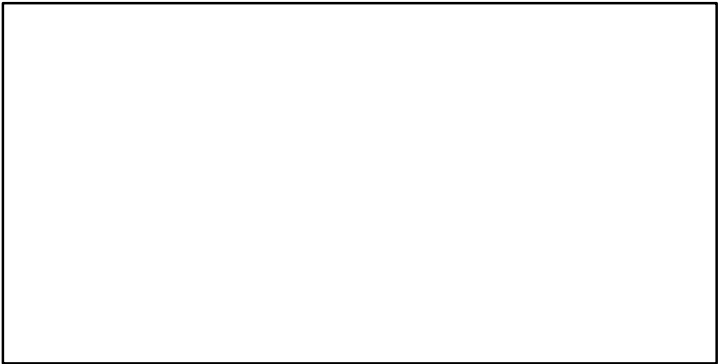


Saithe North-East Arctic [POLLNEAR]

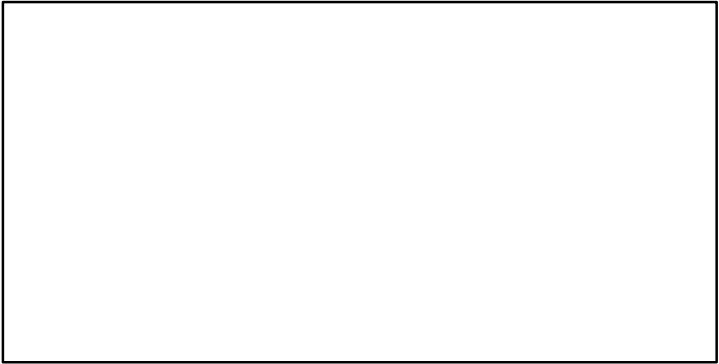
TC-MT, TL-MT, RecC* (1960-2021-ICESIMP2021-2)



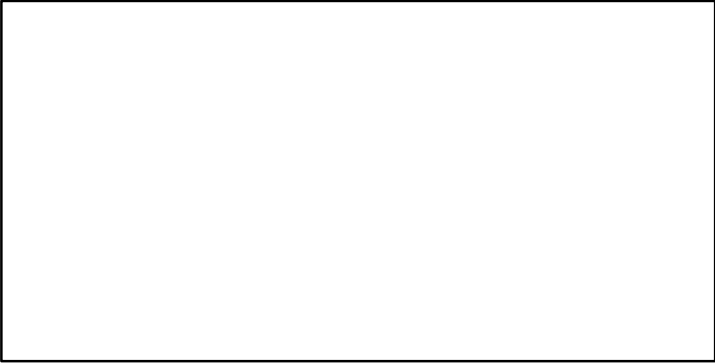
TAC*, Cpair*, Cadv*



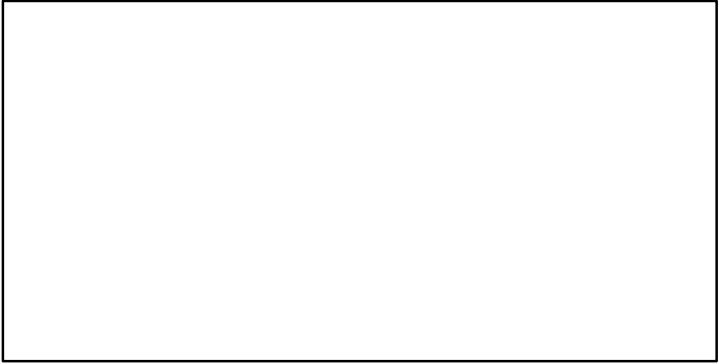
CPUE*



EFFORT*



CdivMSY*



Saithe ICES 3a-4-6 [POLLNS-VI-IIIa]

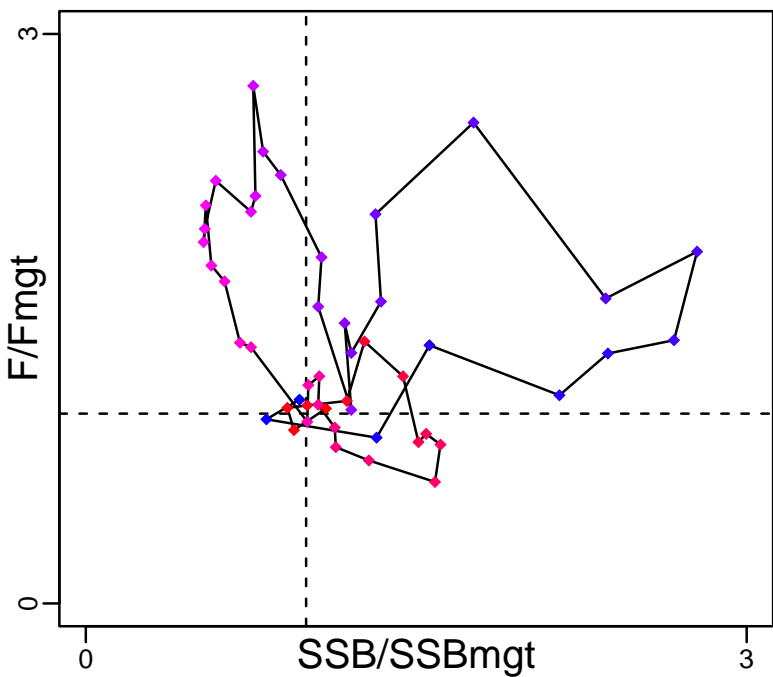
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	WGNSSK-POLLNS-VI-IIIa-1967-2021-ICESIMP2021-2
Area	ICES 3a-4-6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.363
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	2×10^5
Fmgt	Fmgt-1/yr	2021	0.363
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	2×10^5
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	107,000
Flim	Flim-1/yr	2021	0.668
ERlim	-	-	-

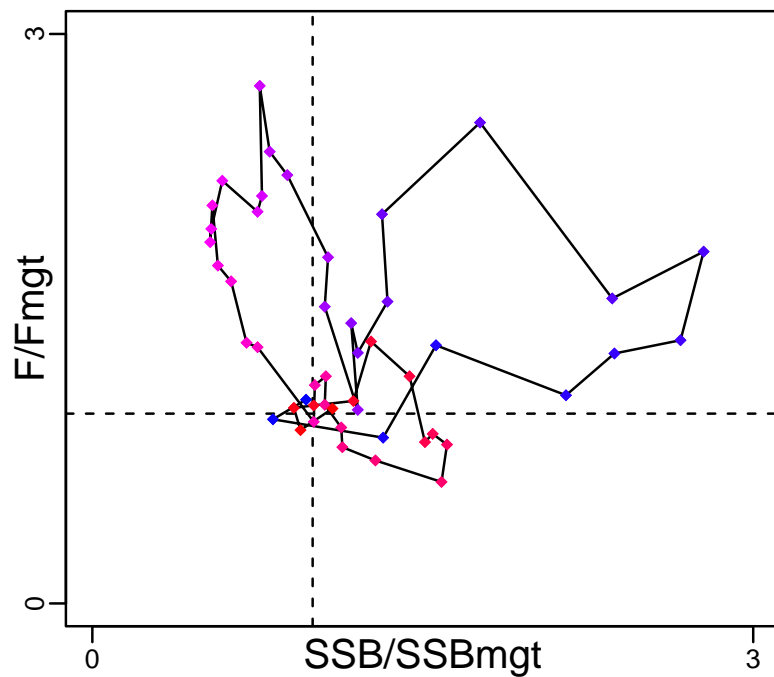
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	383,325	-	-
SSB	SSB-MT	2021	138,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	71,500,000	-	3
F	F-1/yr	2021	0.453	-	-
ER	ER-calc-ratio	2019	0.246	-	-
TC	TC-MT	2021	76,800		
TL	TL-MT	2021	73,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.248		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.995		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.248		
ER/ERmgt	-	-	-		

Saithe ICES 3a-4-6 [POLLNS-VI-IIIa]

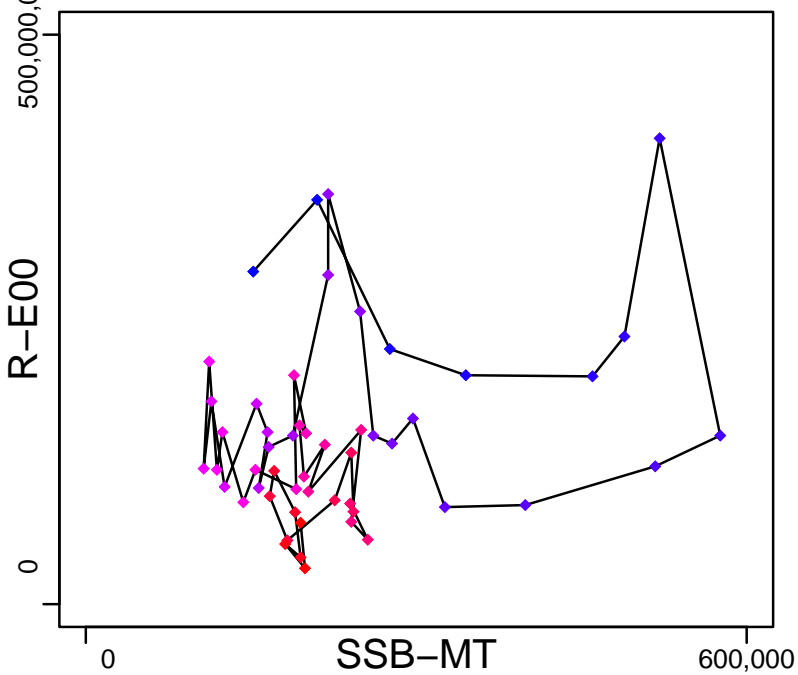
Kobe MSYpref (1964-2015-ICESIMP2016)



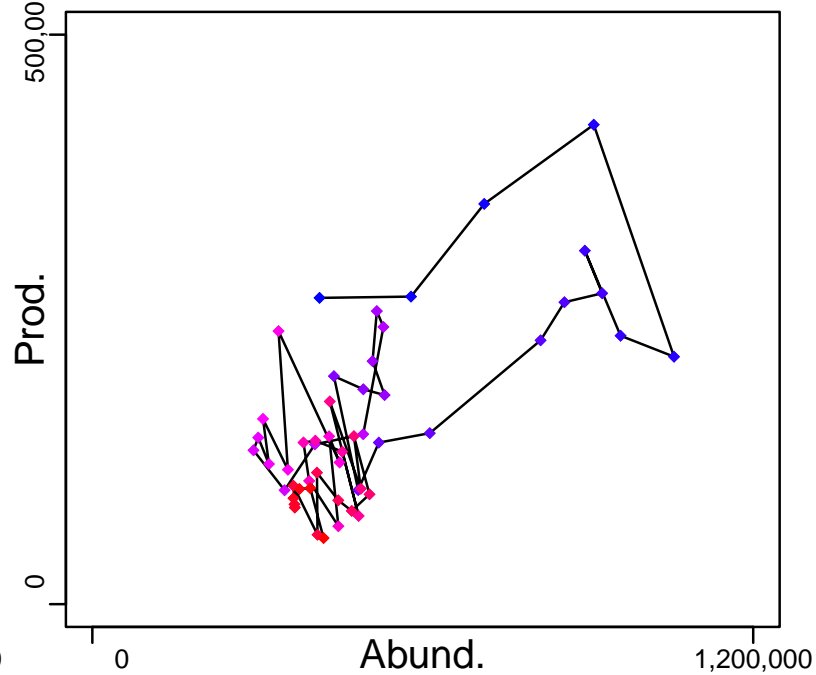
Kobe MGTpref (1964-2015-ICESIMP2016)



Spawner Recruit (1967-2021-ICESIMP2021-2)

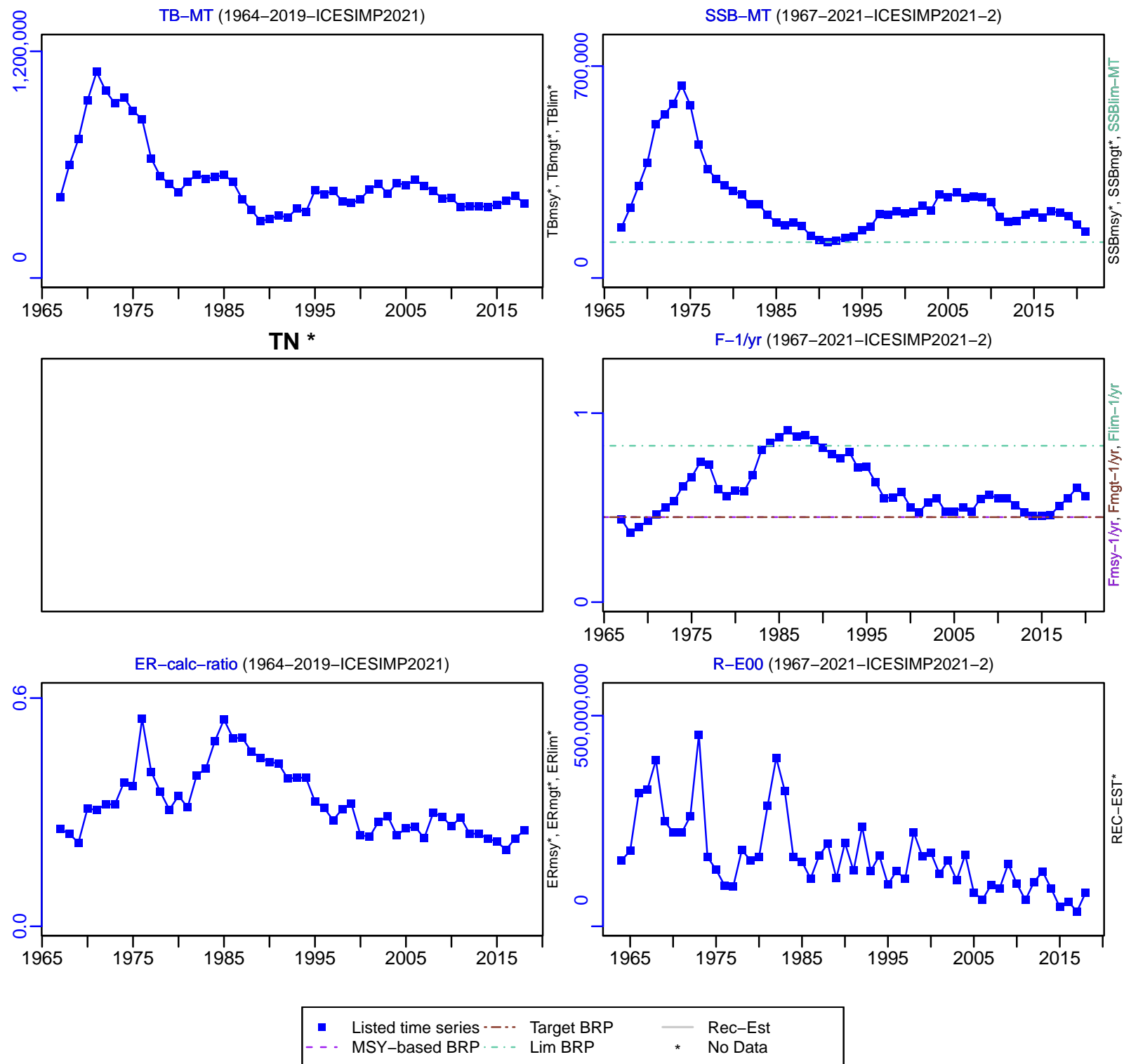


Production (1964-2019-ICESIMP2021)



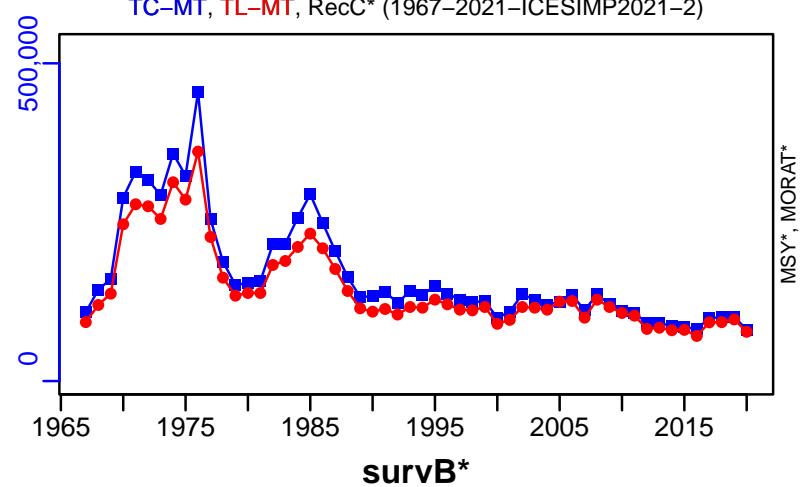
◆ Start Year ◆ End Year * No Data

Saithe ICES 3a-4-6 [POLLNS-VI-IIIa]

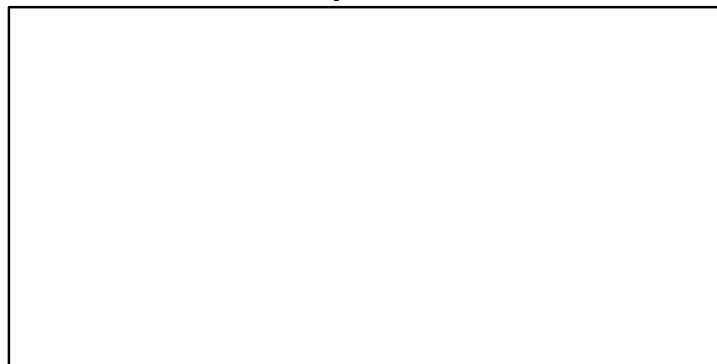


Saithe ICES 3a-4-6 [POLLNS-VI-IIIa]

TC-MT, TL-MT, RecC* (1967-2021-ICESIMP2021-2)



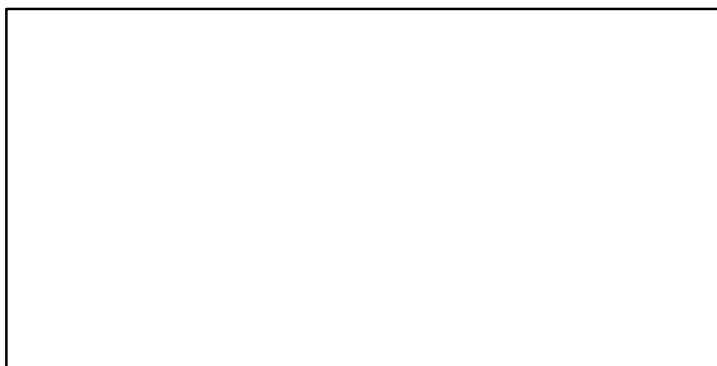
TAC*, Cpair*, Cadv*



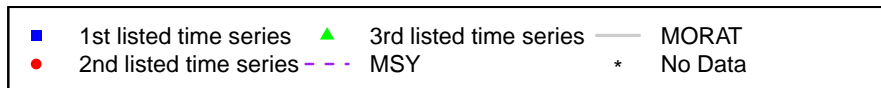
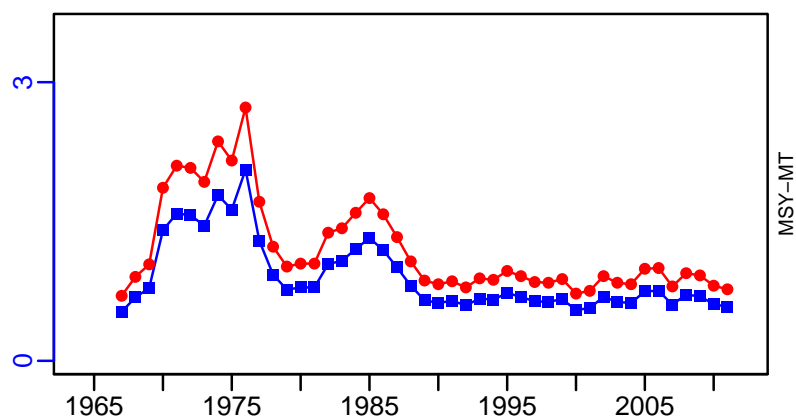
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1964-2012-CHING)



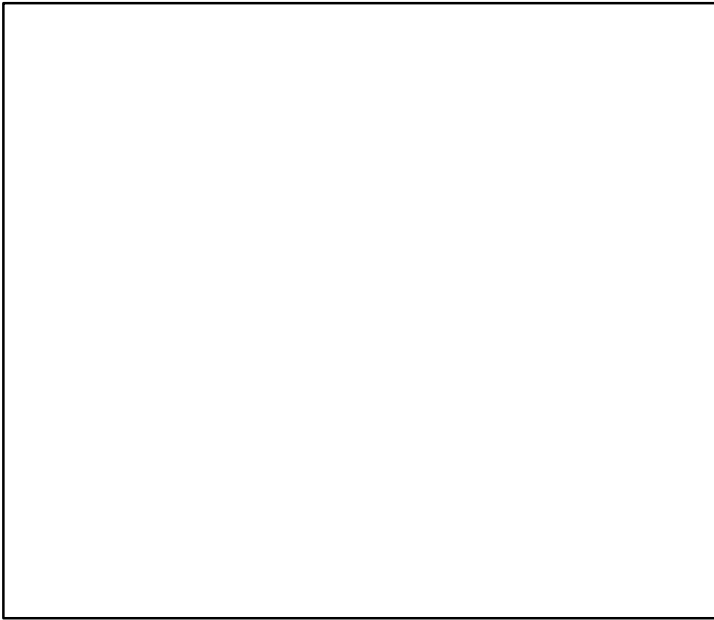
Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

Metadata	
Scientific Name	Trisopterus minutus
Current Assess ID	STECF-PRCODMEDGSA9-2004-2011-OSIO
Area	Ligurian and North Tyrrhenian 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

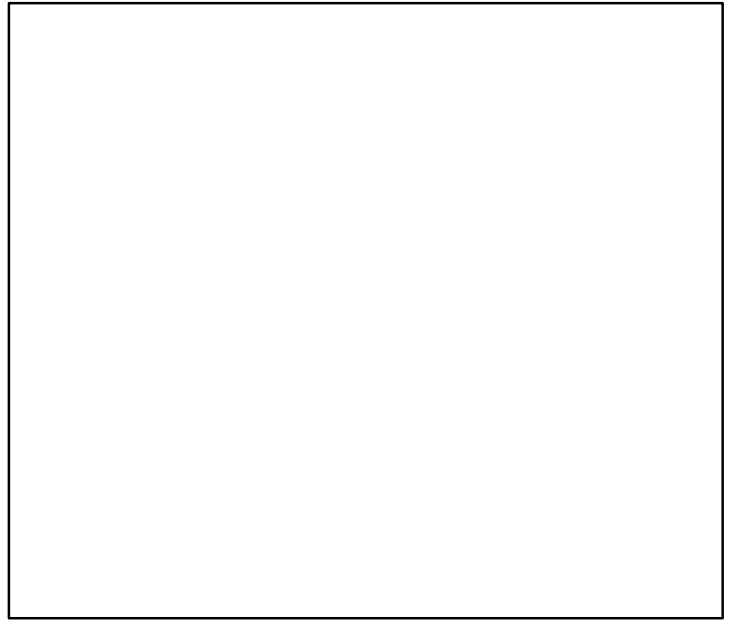
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.74
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	163	-	0+
TN	-	-	-	-	-
R	R-E00	2011	3×10^6	-	-
F	F-1/yr	2011	0.9	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	105		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	1.216		
ER/ERmgt	-	-	-		

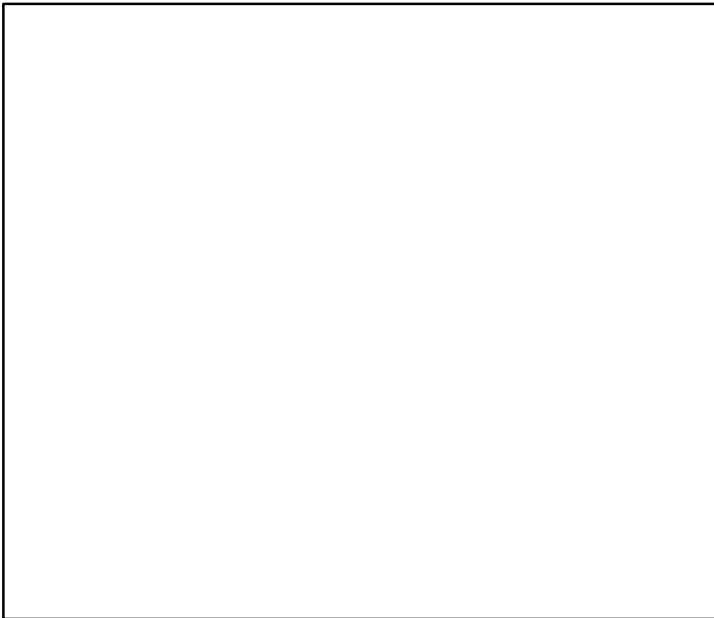
Kobe MSY*



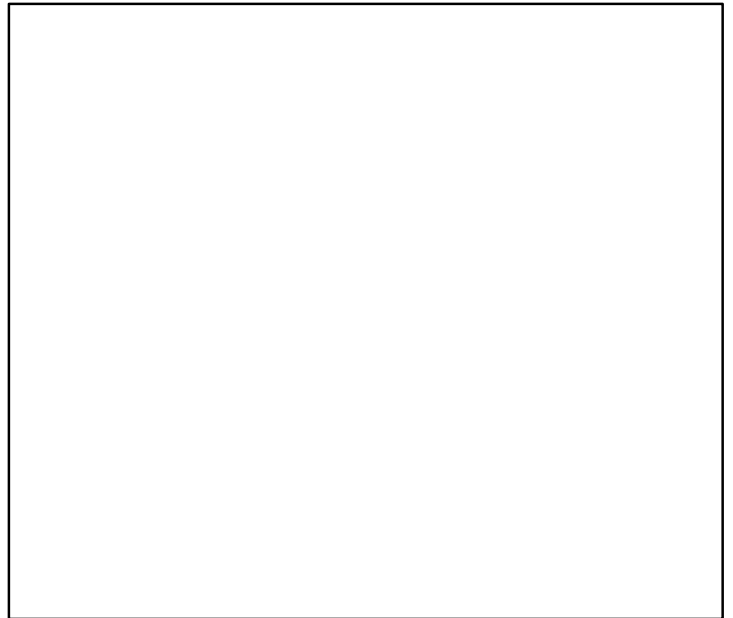
Kobe MGT*



Spawner Recruit*



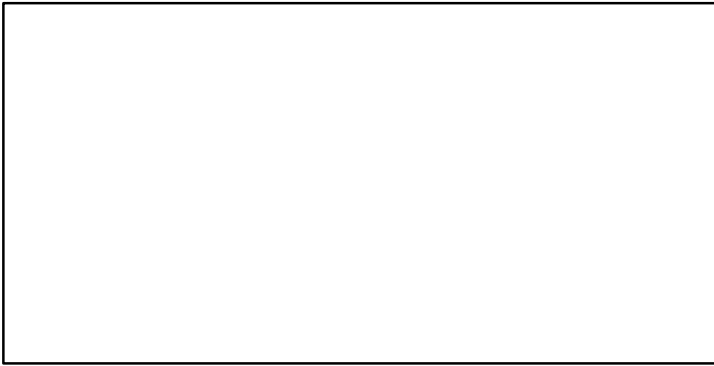
Production*



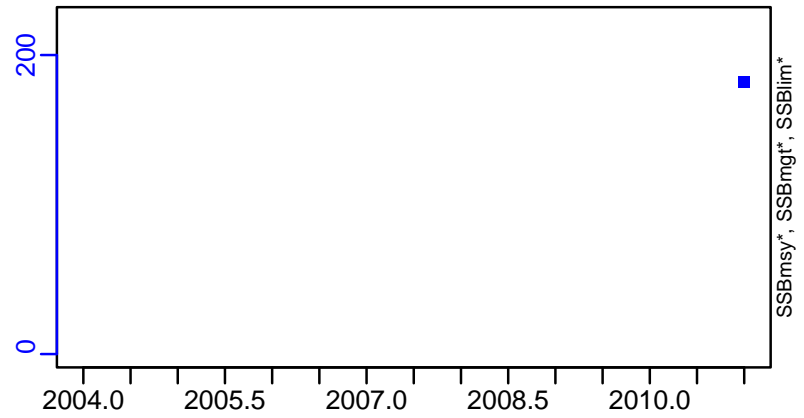
◆ Start Year ◆ End Year * No Data

Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

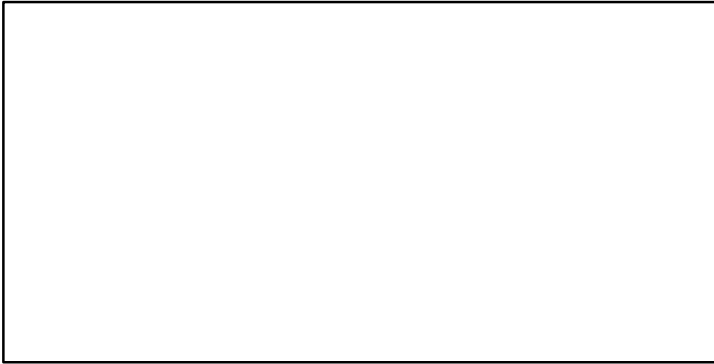
TB*



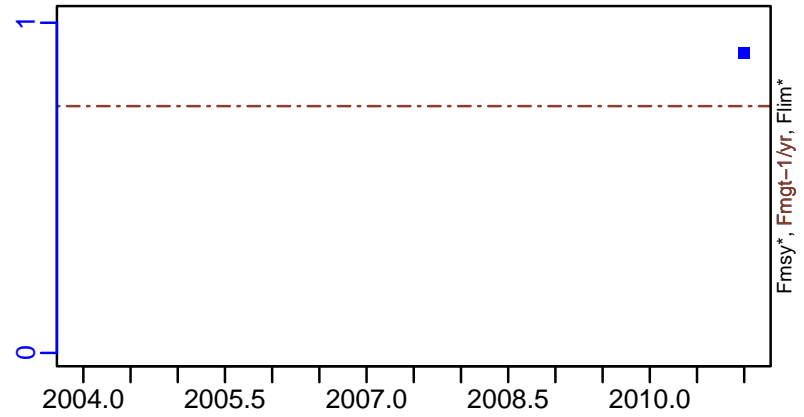
SSB-MT (2004–2011–OSIO)



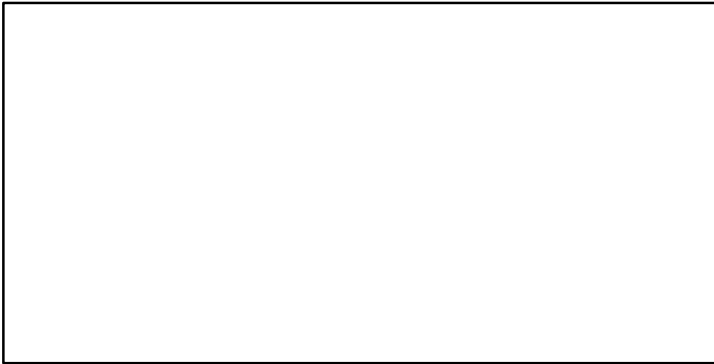
TN *



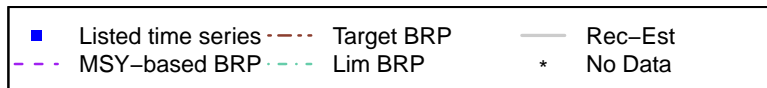
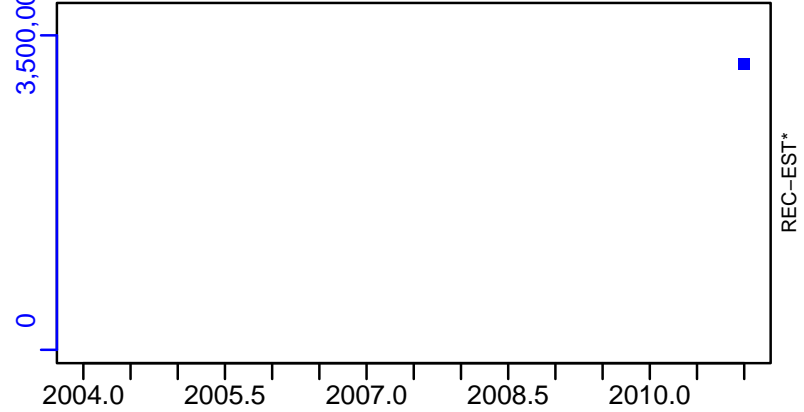
F-1/yr (2004–2011–OSIO)



ER*



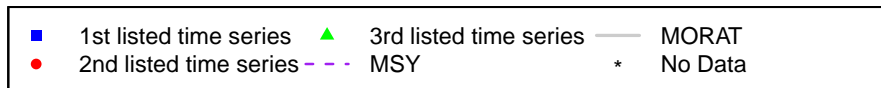
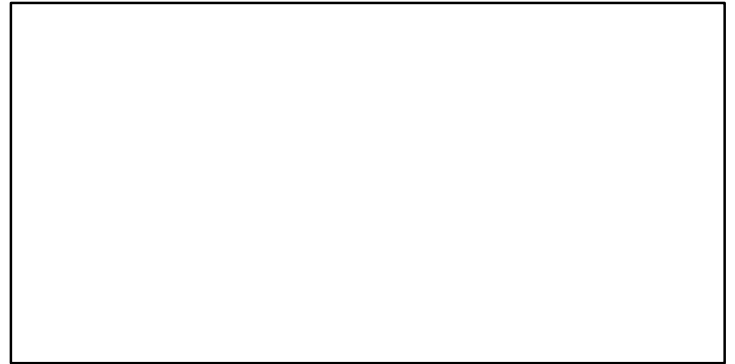
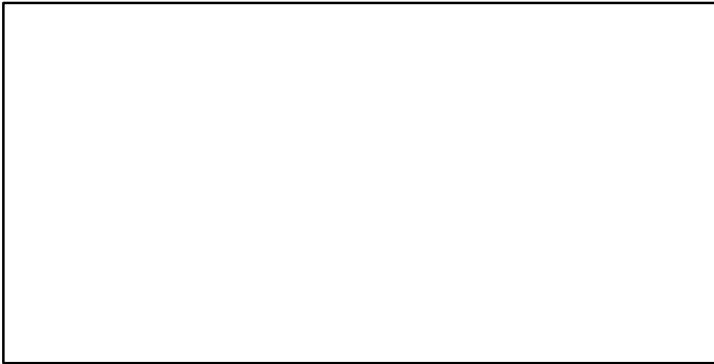
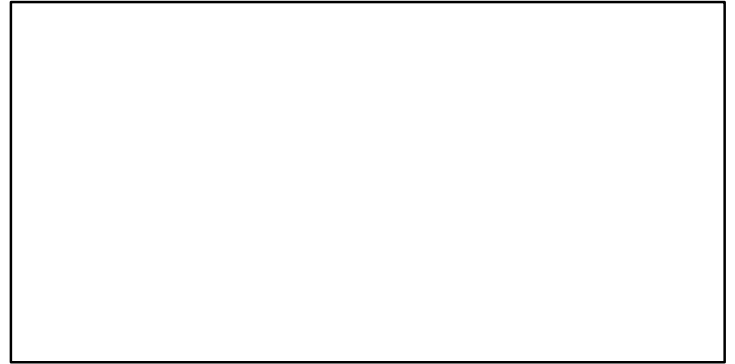
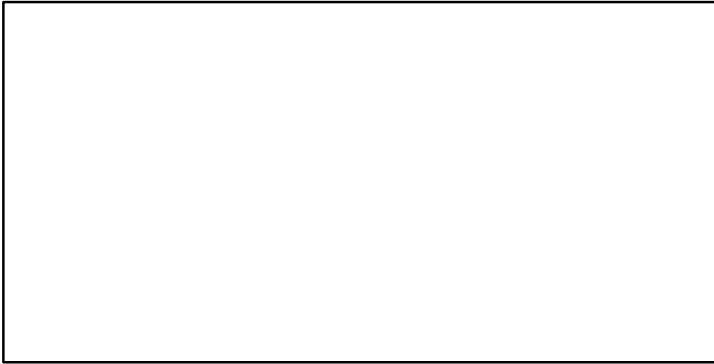
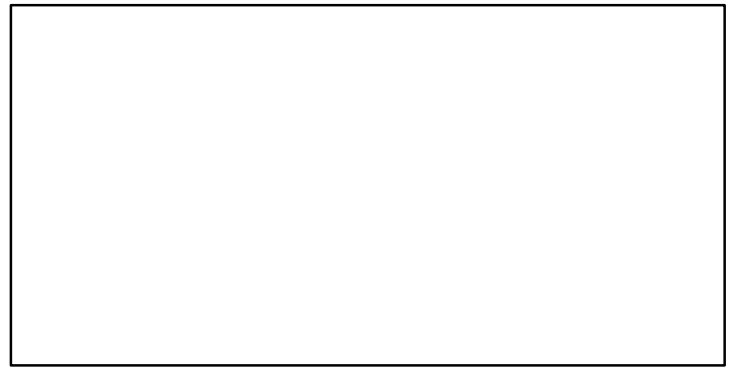
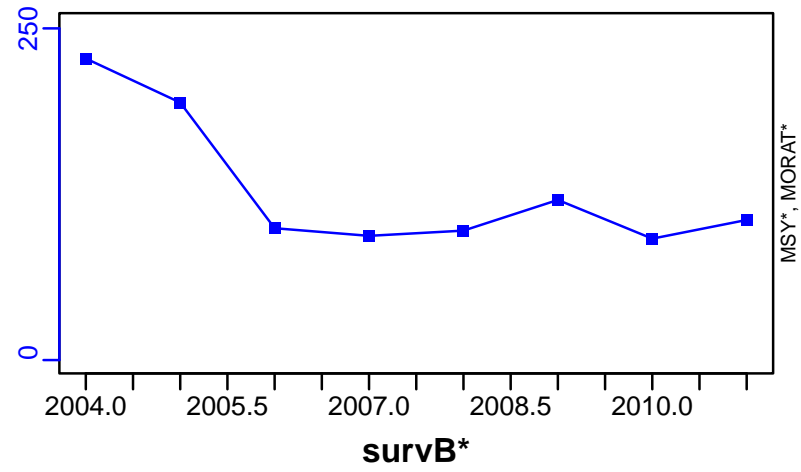
R-E00 (2004–2011–OSIO)



Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

TC-MT, TL*, RecC* (2004–2011–OSIO)

TAC*, Cpair*, Cadv*



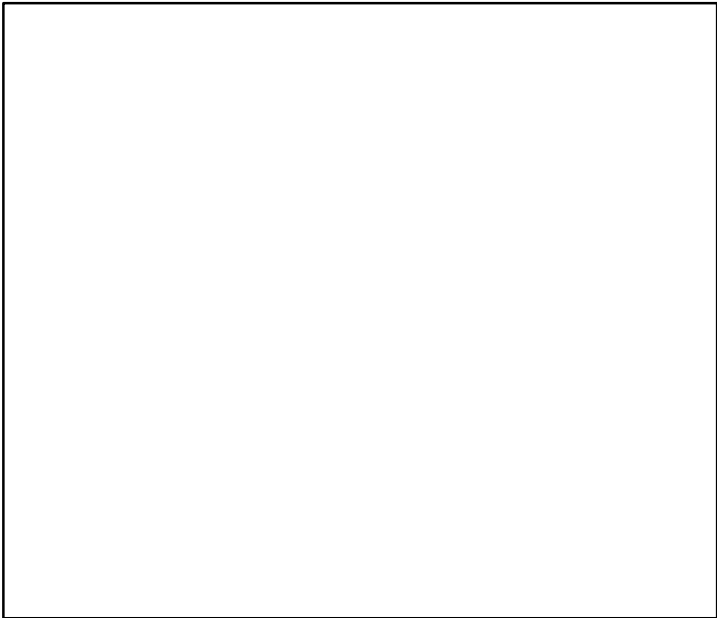
Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

Metadata	
Scientific Name	Urophycis chuss
Current Assess ID	NEFSC-RHAKEGOMNGB-1981-2019-SISIMP2021-2
Area	Gulf of Maine / Northern Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014, 2019

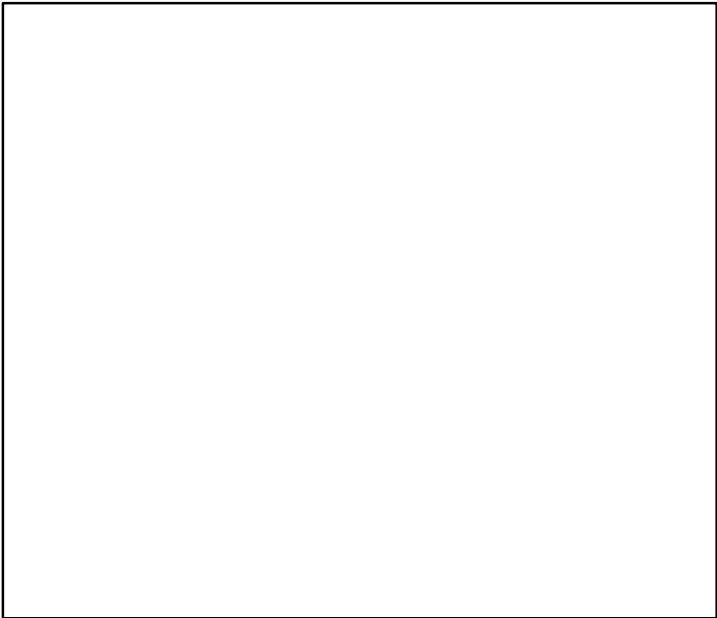
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.12	-	-
TC	TC-MT	2019	236		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

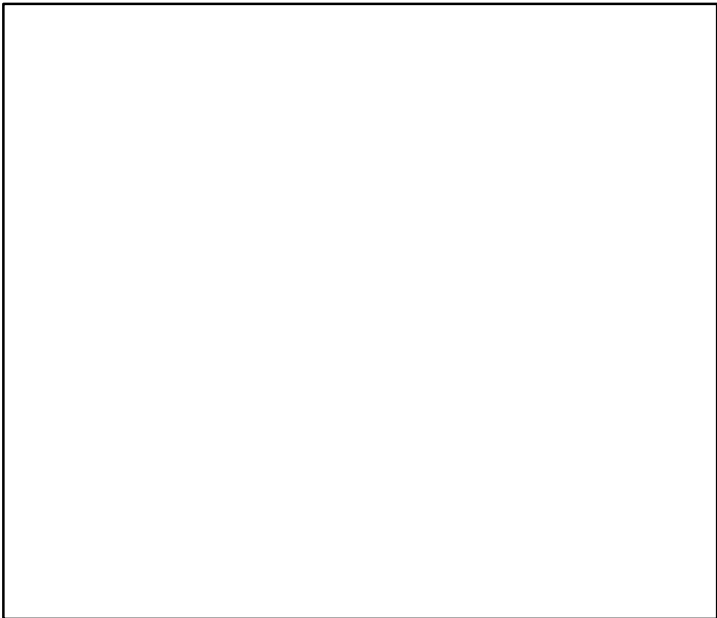
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

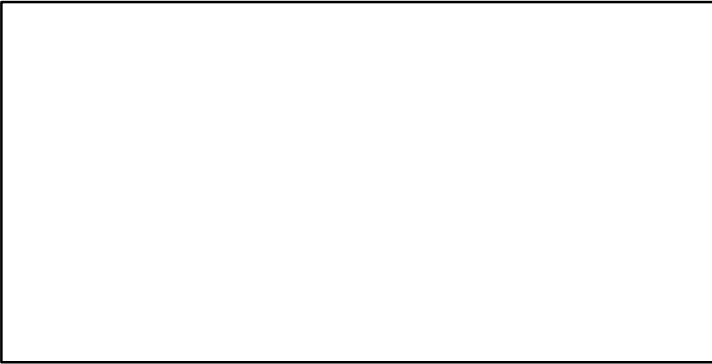
TB*



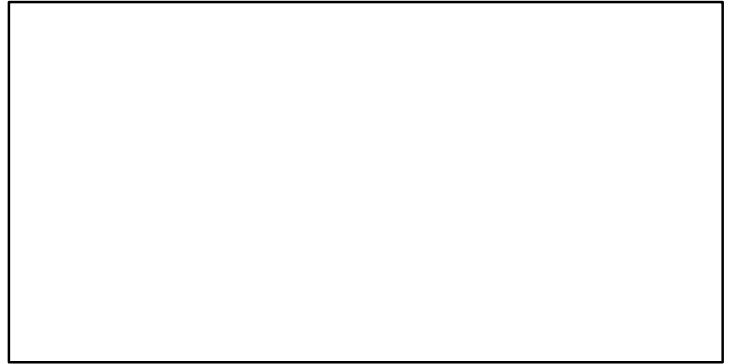
SSB*



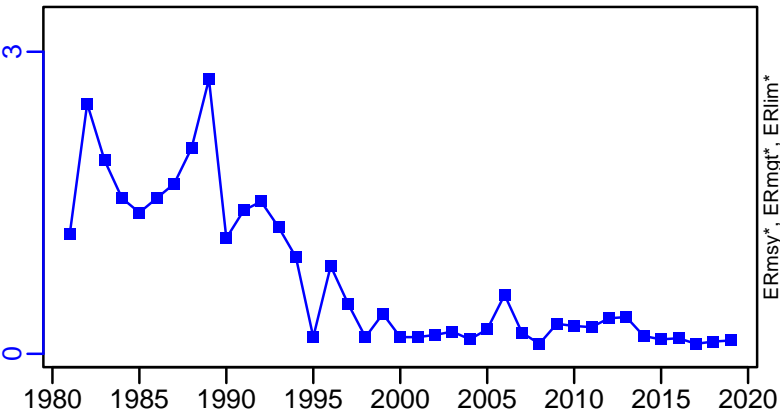
TN *



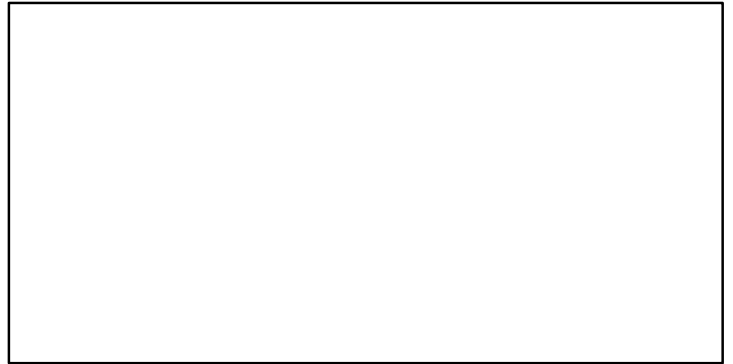
F*



ER-ratio (1981–2019–SISIMP2021–2)

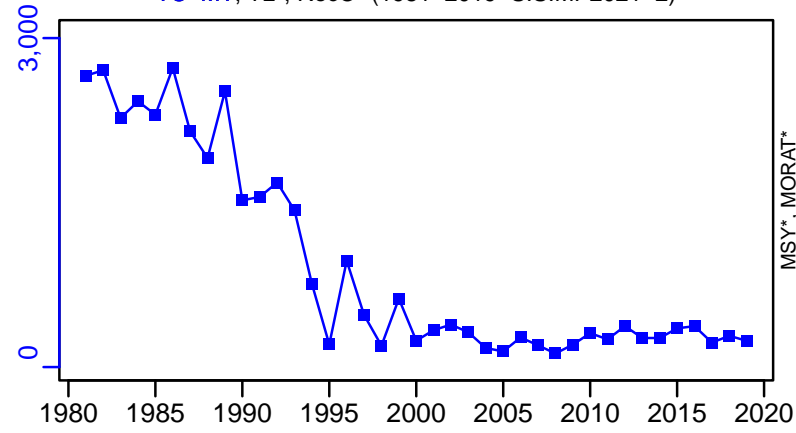


Recruits*

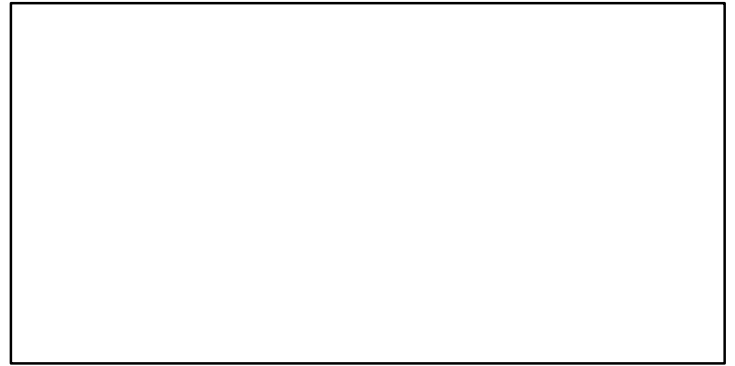


Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

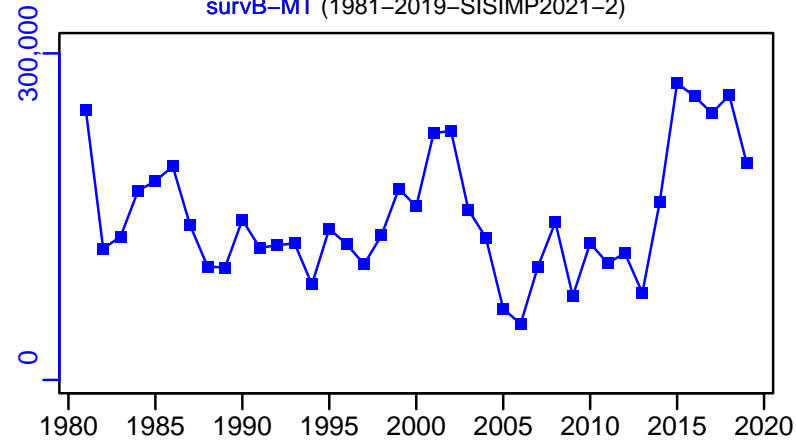
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)



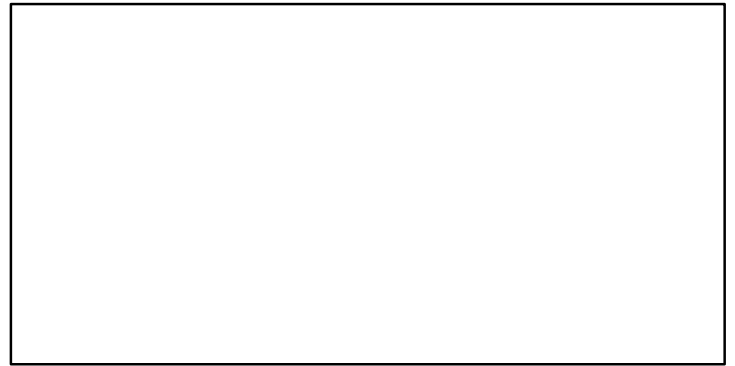
TAC*, Cpair*, Cadv*



survB-MT (1981-2019-SISIMP2021-2)



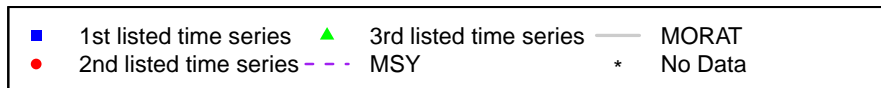
CPUE*



EFFORT*



CdivMSY*



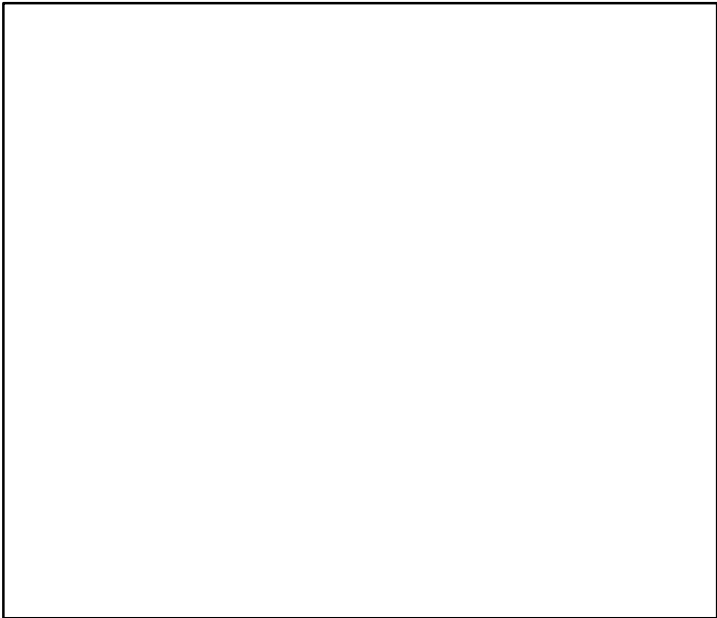
Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

Metadata	
Scientific Name	Urophycis chuss
Current Assess ID	NEFSC-RHAKESGBMATL-1981-2019-SISIMP2021-2
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014, 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	ER-ratio	2019	2.53	-	-
TC	TC-MT	2019	1890		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

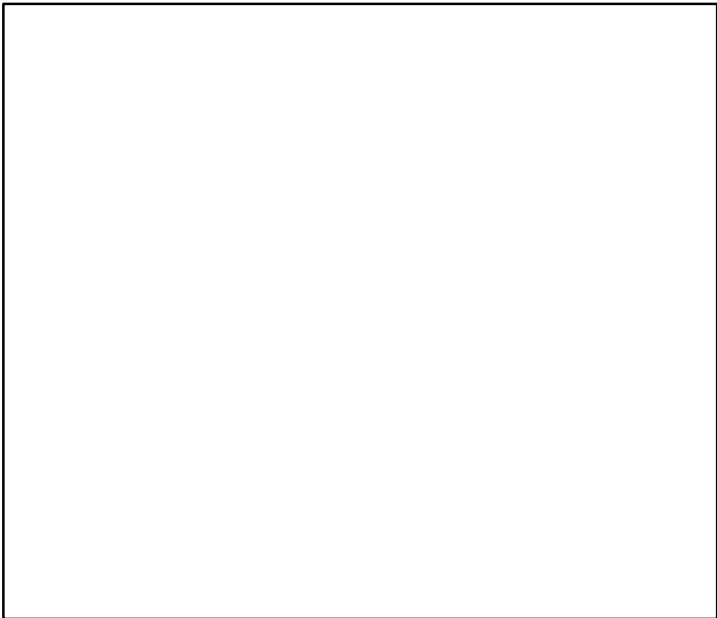
Kobe MSY*



Kobe MGT*



Spawner Recruit*



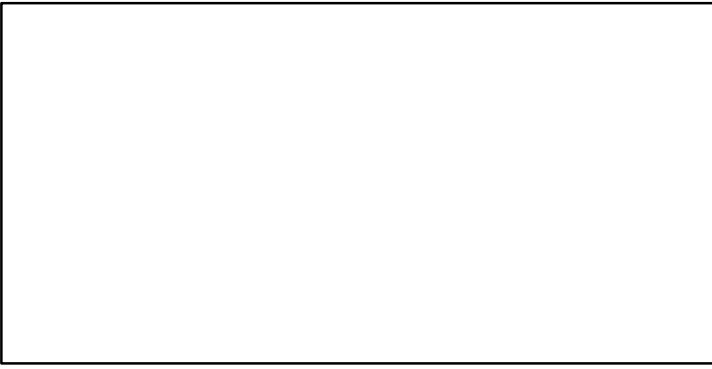
Production*



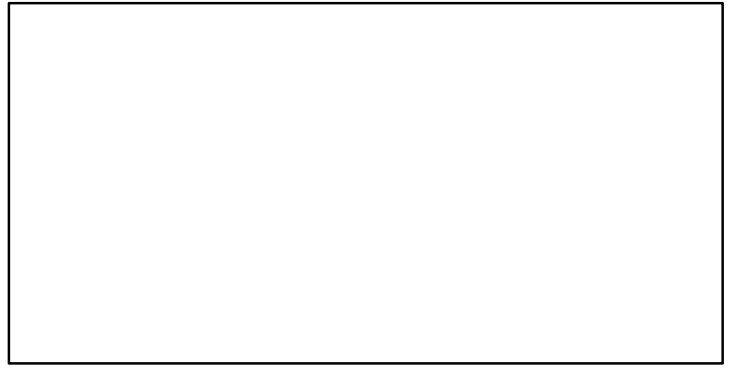
◆ Start Year ◆ End Year * No Data

Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

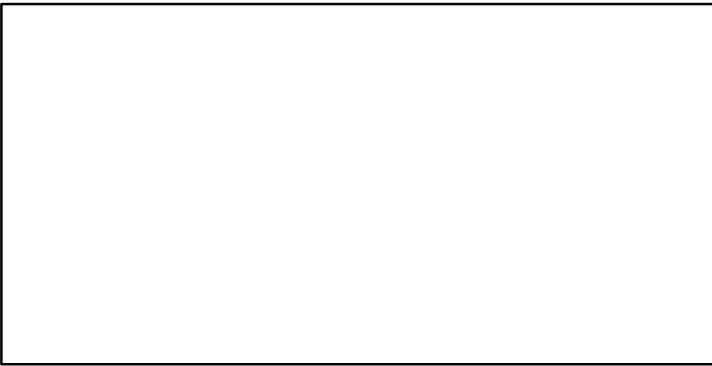
TB*



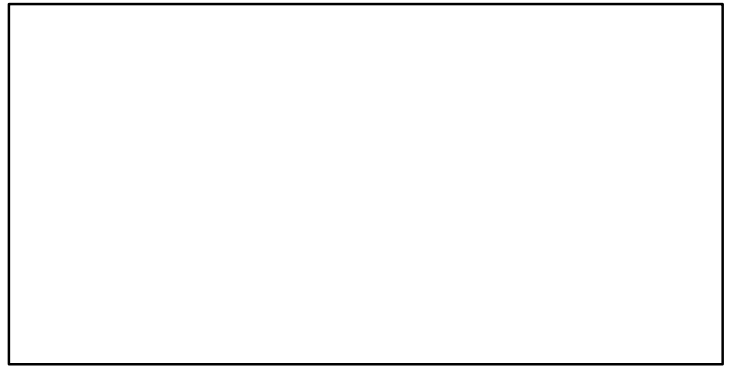
SSB*



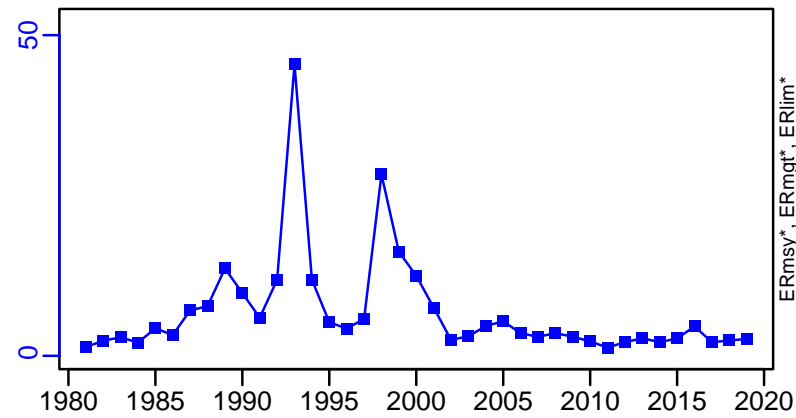
TN *



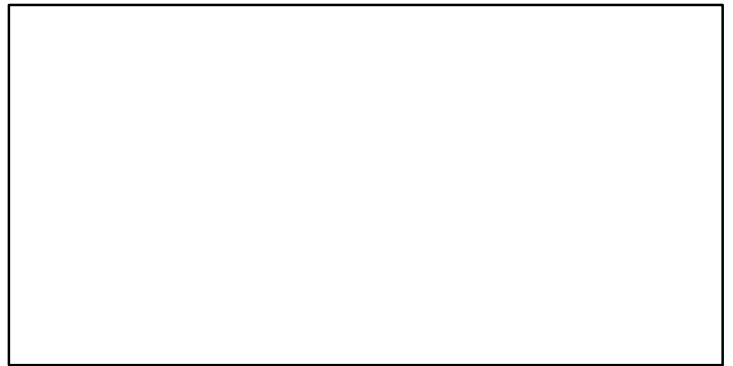
F*



ER-ratio (1981–2019–SISIMP2021–2)

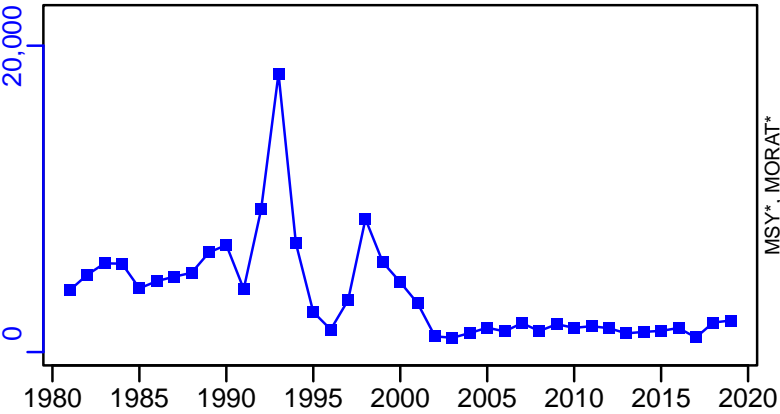


Recruits*



Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

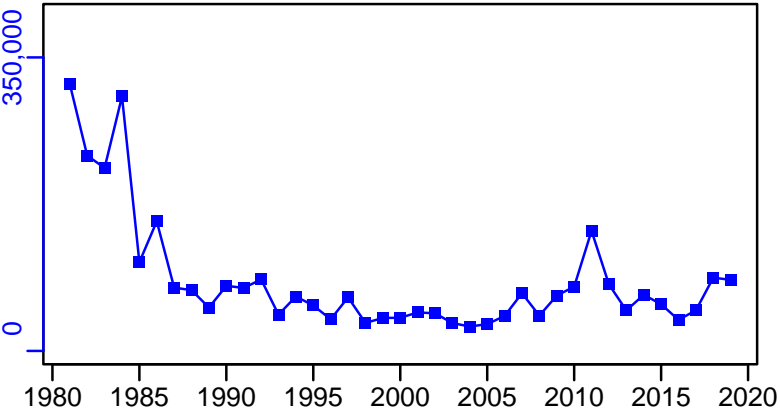
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)



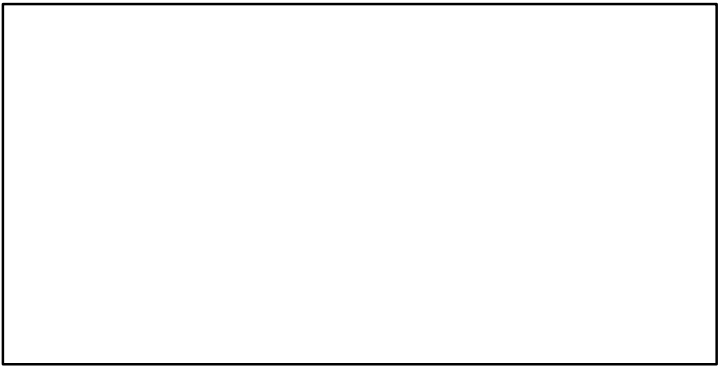
TAC*, Cpair*, Cadv*



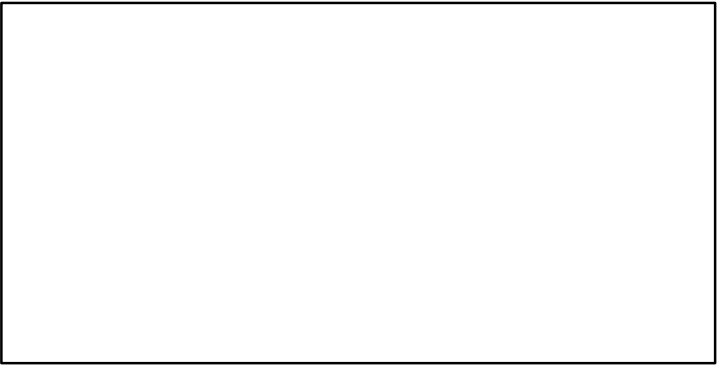
survB-MT (1981-2019-SISIMP2021-2)



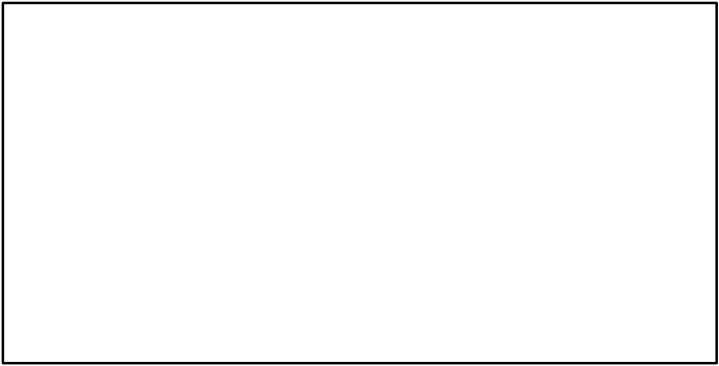
CPUE*



EFFORT*



CdivMSY*

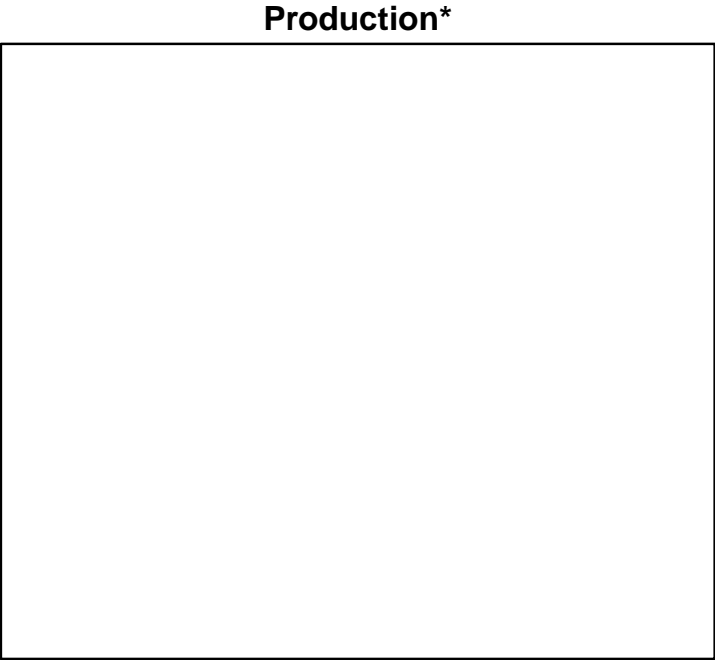
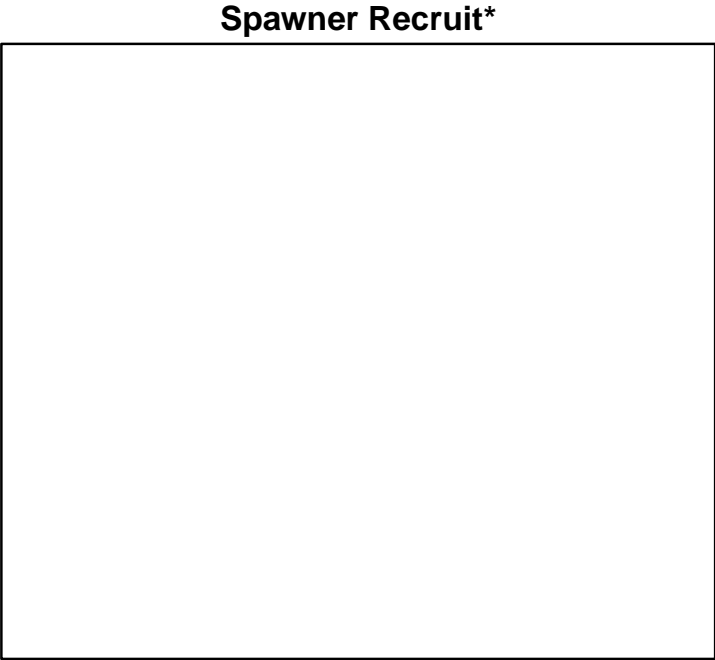
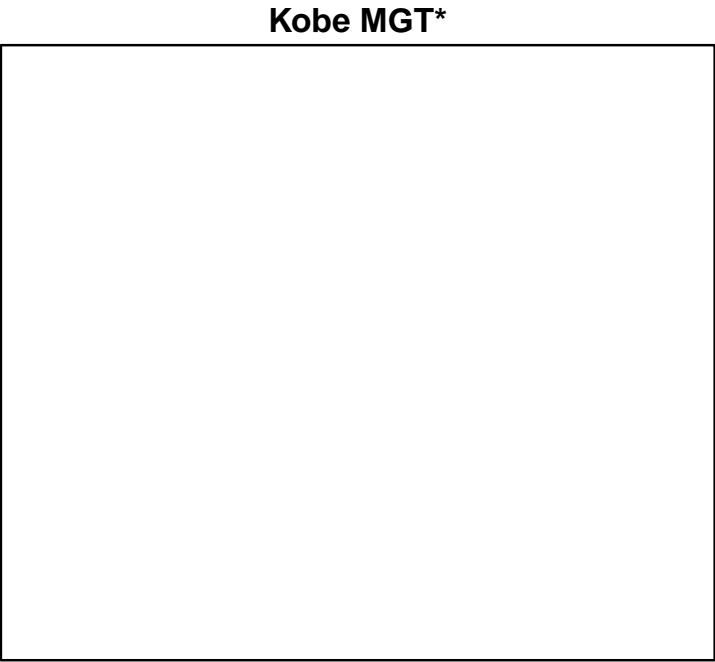
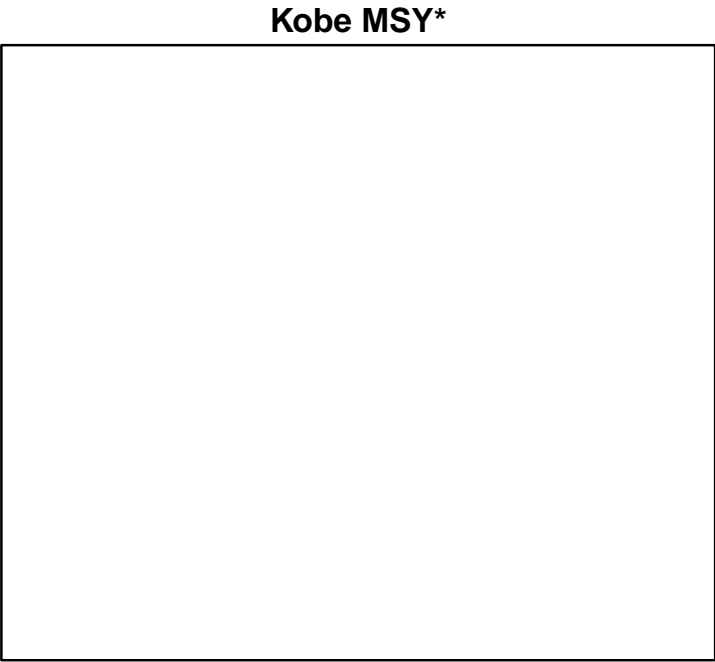


Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

Metadata	
Scientific Name	Macrourus berglax
Current Assess ID	WGDEEP-RHGRENNEATL-1990-2019-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2015, 2019

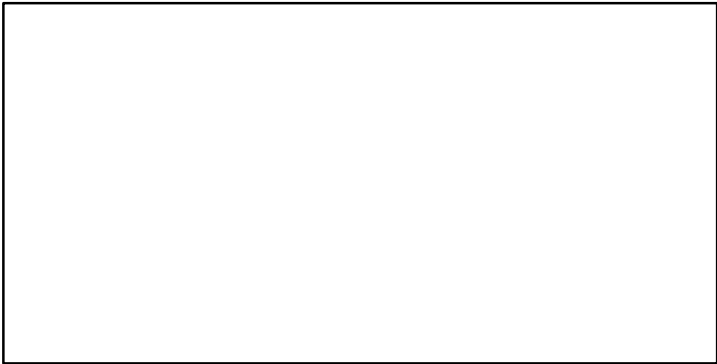
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	259		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

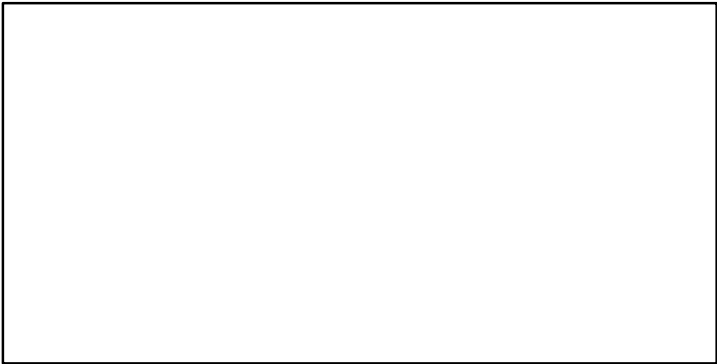


◆ Start Year ◆ End Year * No Data

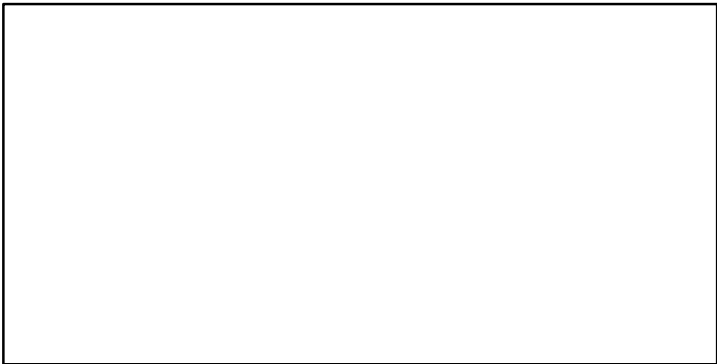
TB*



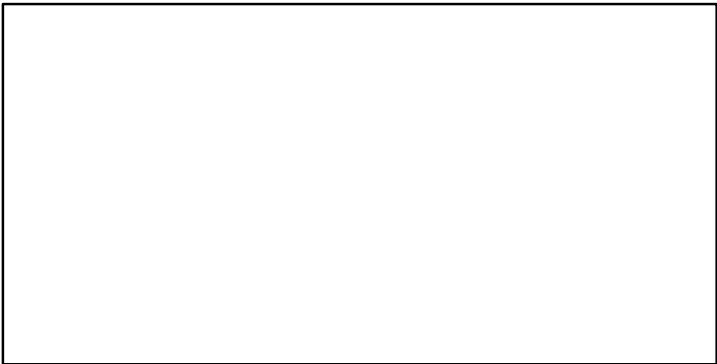
SSB*



TN *



F*



ER*

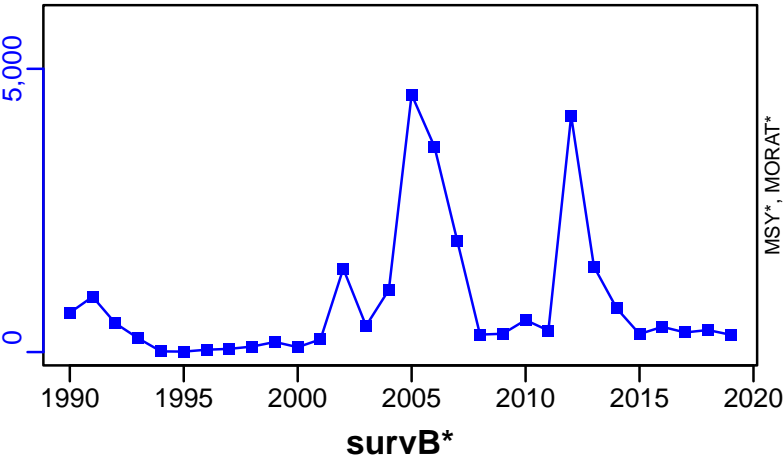


Recruits*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

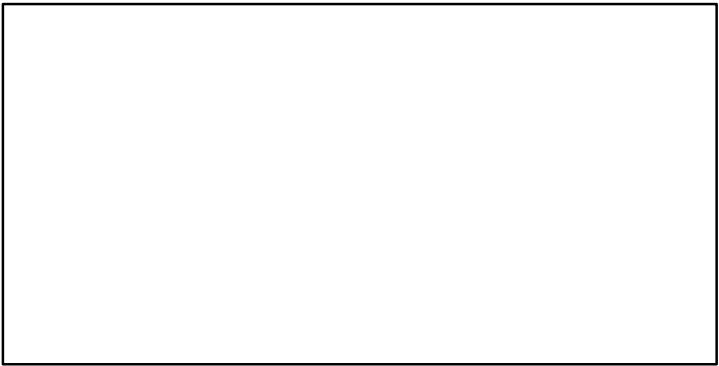
TL-MT, TC*, RecC* (1990-2019-ICESIMP2021-2)



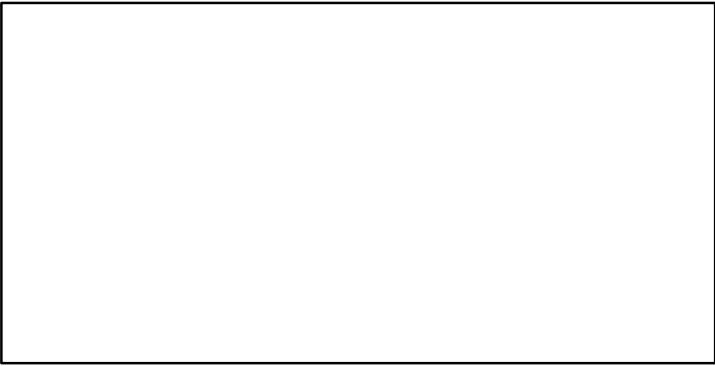
TAC*, Cpair*, Cadv*



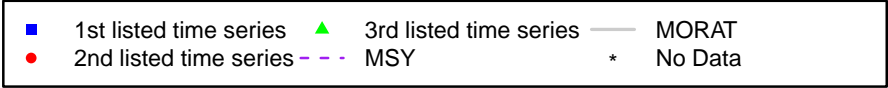
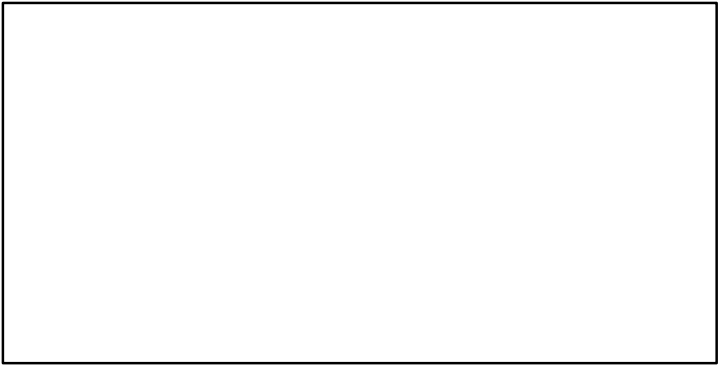
CPUE*



EFFORT*



CdivMSY*



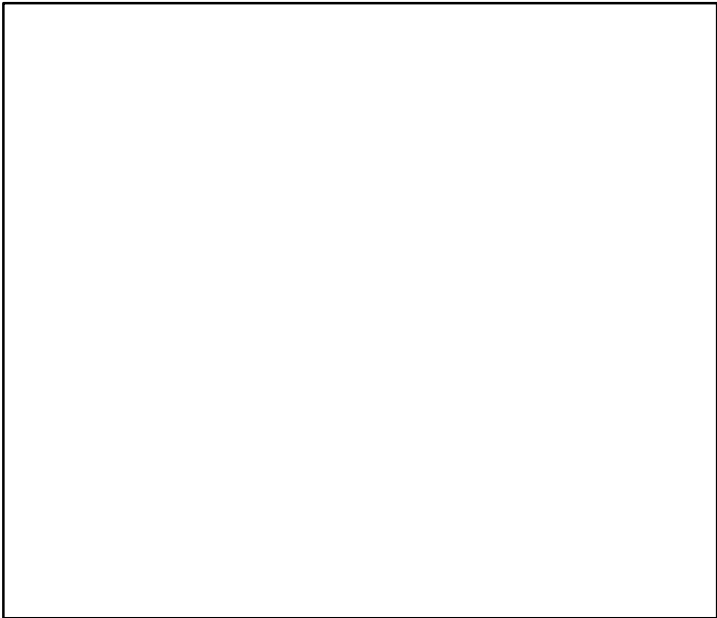
Roundnose grenadier ICES 1-2-4-5a2-8-9-14ab2 [RNGENI-II-IV-Va2-VIII-IX-XIVab2]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENI-II-IV-Va2-VIII-IX-XIVab2-1990-2018-ICESIMP2021
Area	ICES 1-2-4-5a2-8-9-14ab2
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
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	240		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

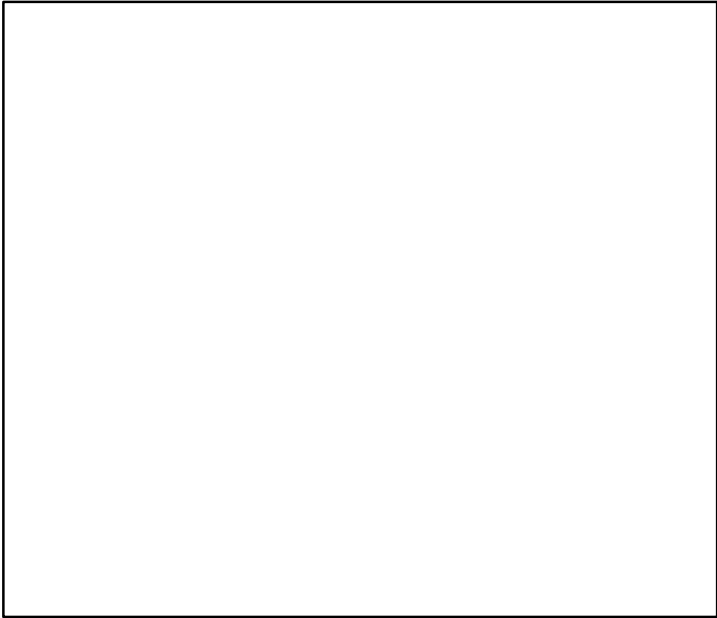
Kobe MSY*



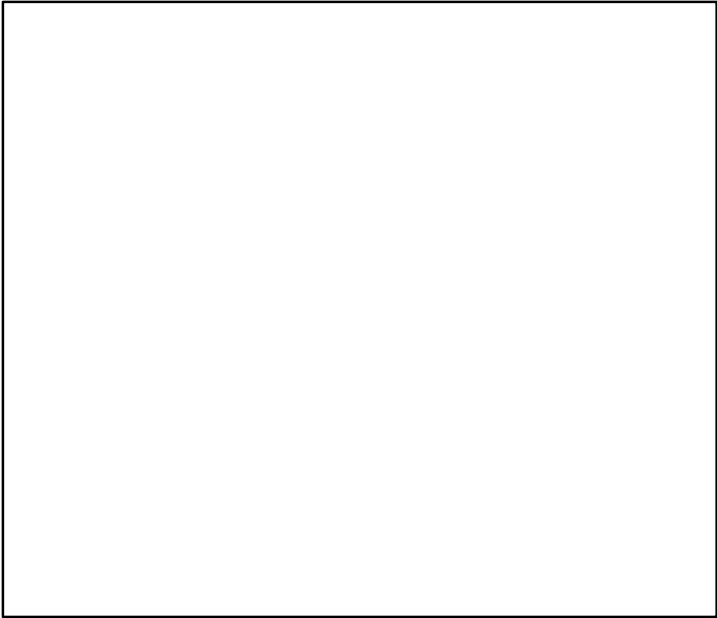
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

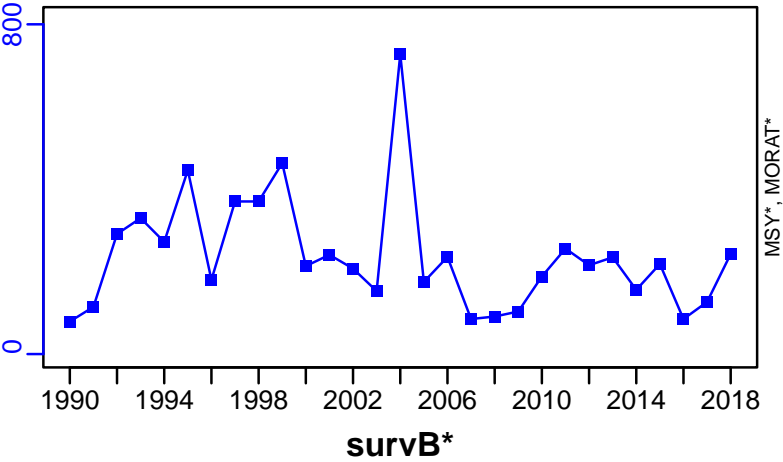


Recruits*

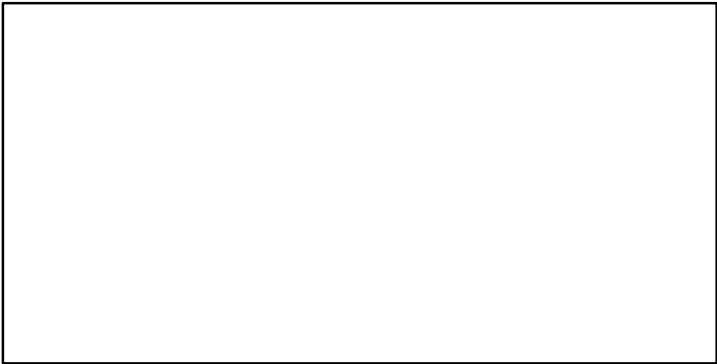


Roundnose grenadier ICES 1–2–4–5a2–8–9–14ab2 [RNGENI–II–IV–Va2–VIII–IX–XIVab2]

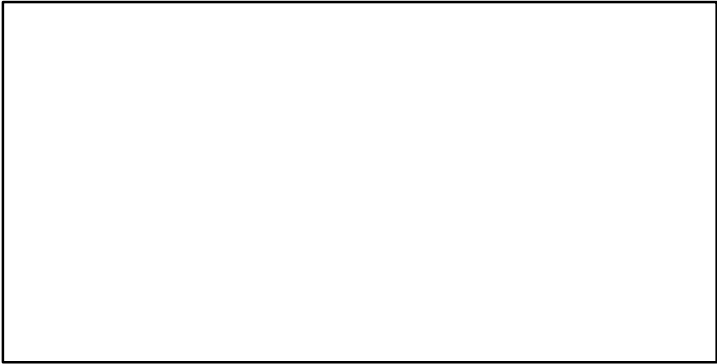
TL–MT, TC*, RecC* (1990–2018–ICESIMP2021)



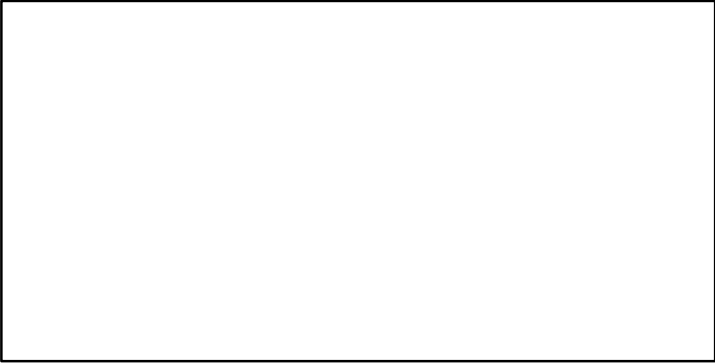
TAC*, Cpair*, Cadv*



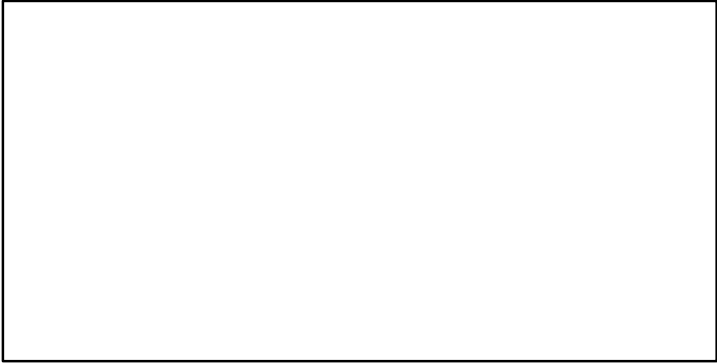
CPUE*



EFFORT*



CdivMSY*



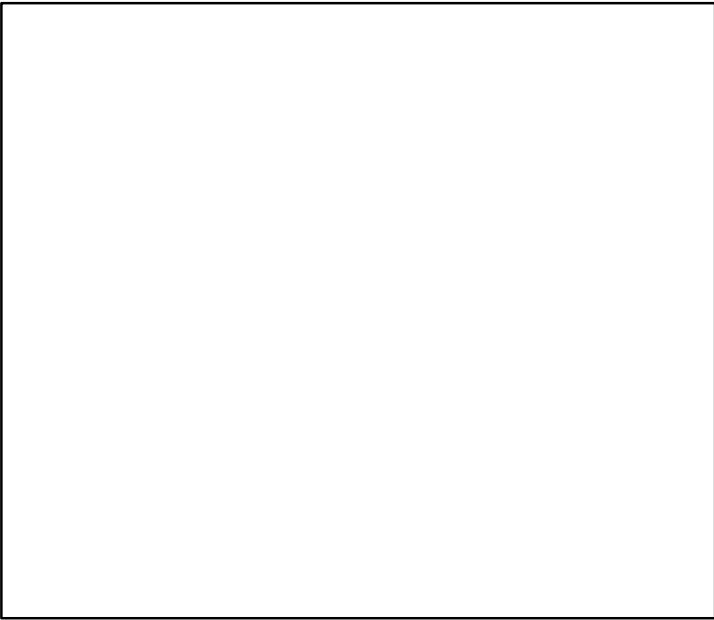
Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENMATLR-1973-2018-ICESIMP2021
Area	Mid-Atlantic Ridge
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2018, 2015

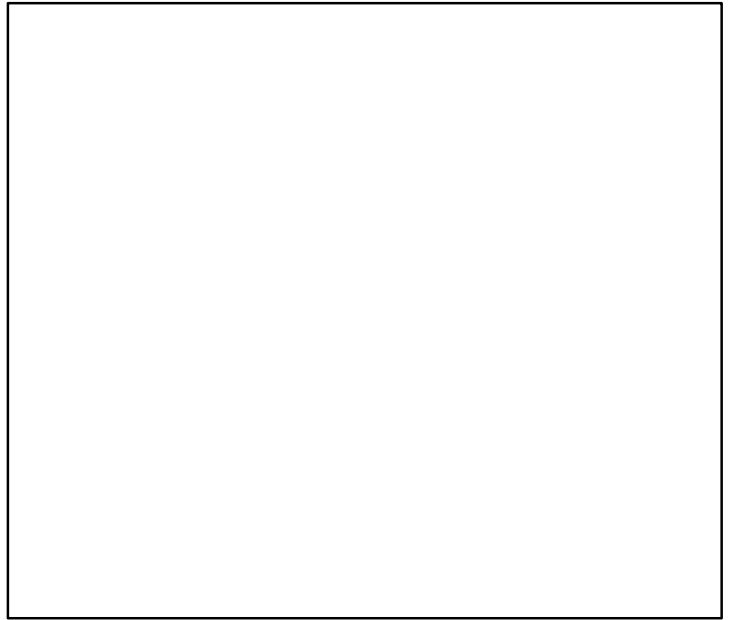
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	27		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

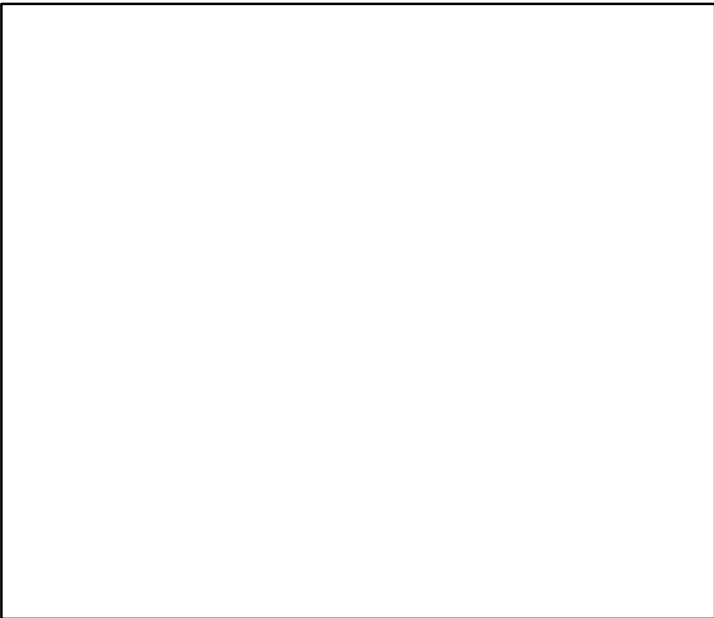
Kobe MSY*



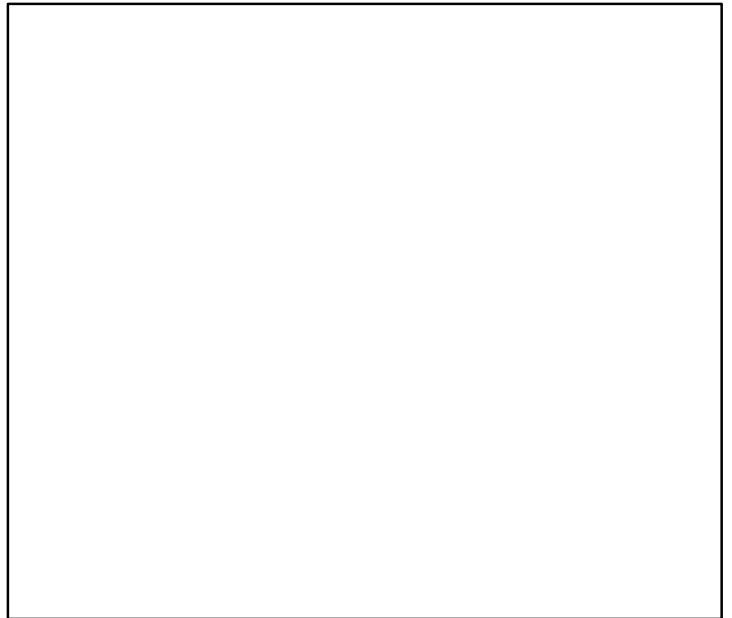
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

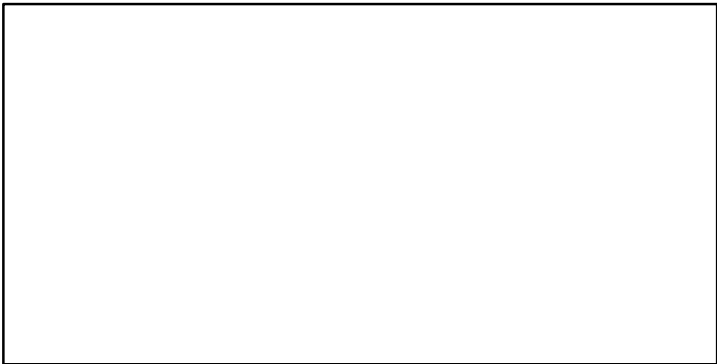
TB*



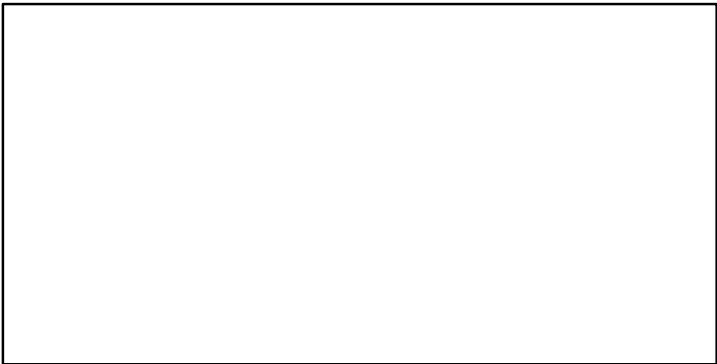
SSB*



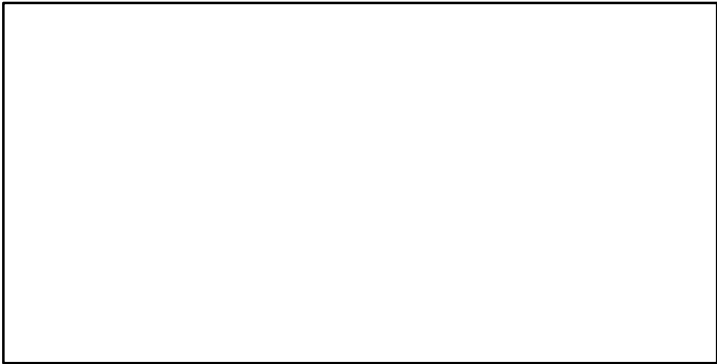
TN *



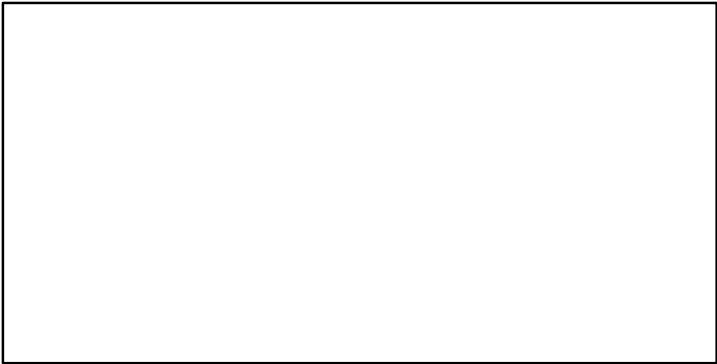
F*



ER*

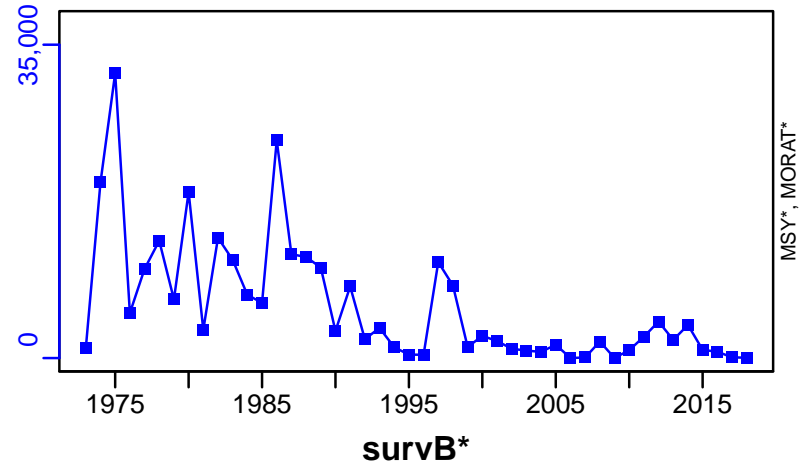


Recruits*

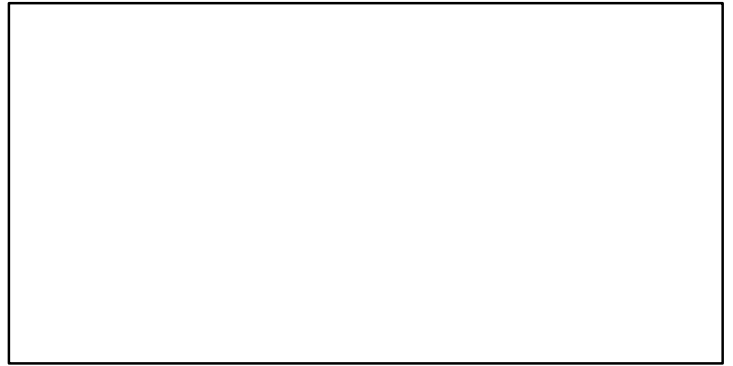


Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

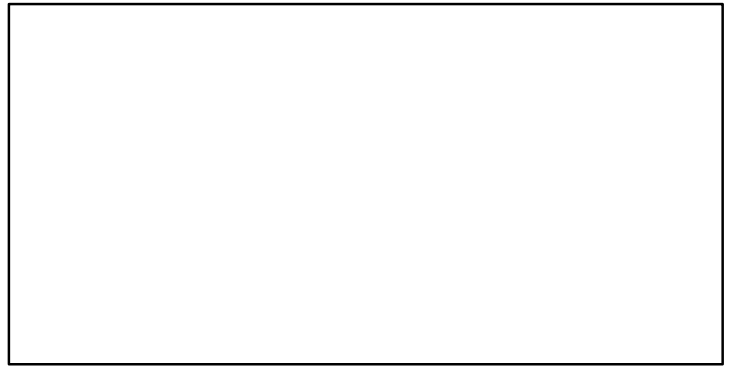
TL-MT, TC*, RecC* (1973-2018-ICESIMP2021)



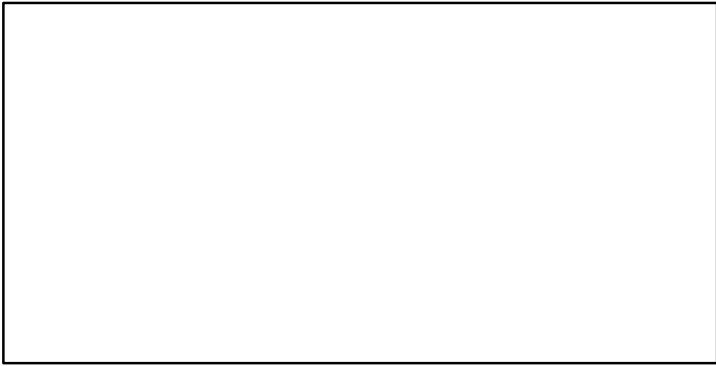
TAC*, Cpair*, Cadv*



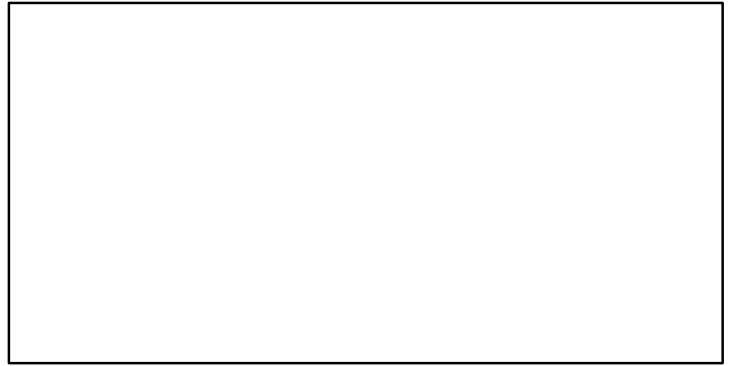
CPUE*



EFFORT*



CdivMSY*



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

Roundnose grenadier ICES 5b-6-7-12b [RNGENVb-VI-VII-XIb]

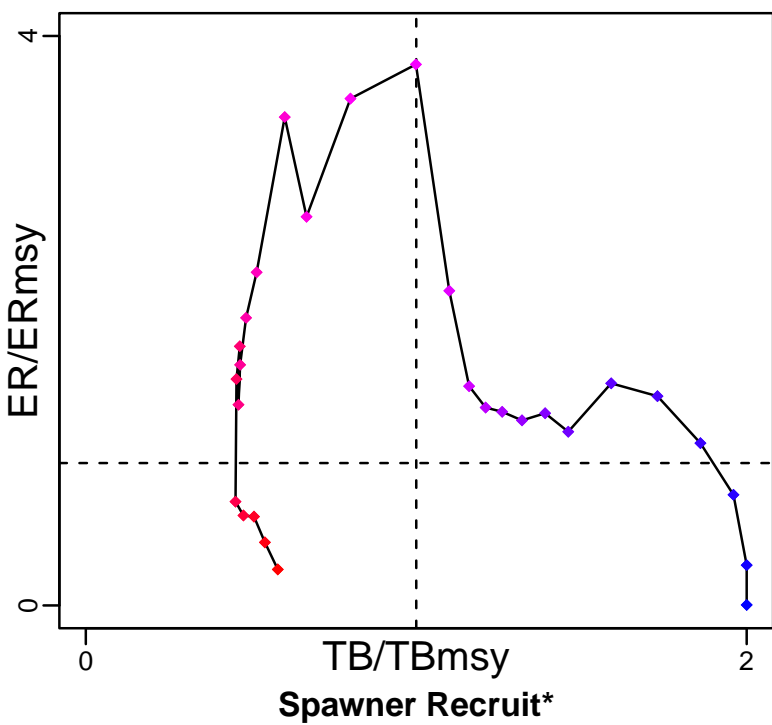
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENVb-VI-VII-XIb-1988-2019-ICESIMP2021-2
Area	ICES 5b-6-7-12b
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017, 2019

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

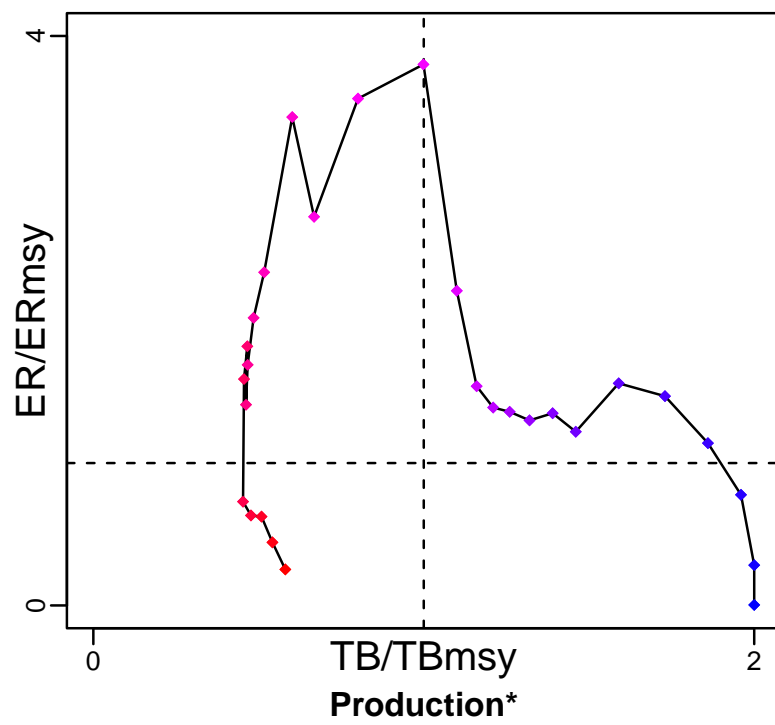
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	689		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.581		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2016	0.253		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier ICES 5b-6-7-12b [RNGENVb-VI-VII-XIIb]

Kobe MSY_{pref} (1988-2016-ICESIMP2016)



Kobe MGT_{pref} (1988-2016-ICESIMP2016)



◆ Start Year ◆ End Year * No Data

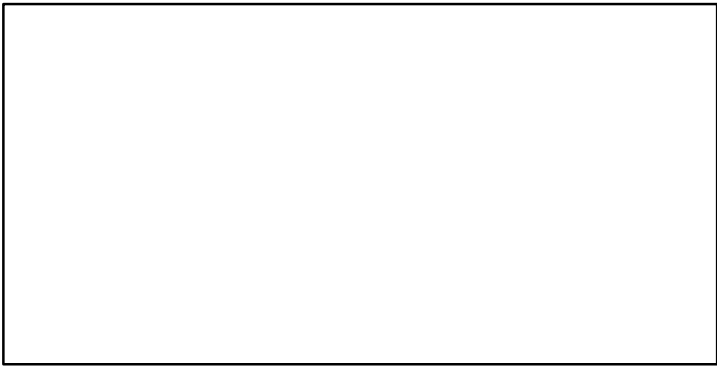
TB*



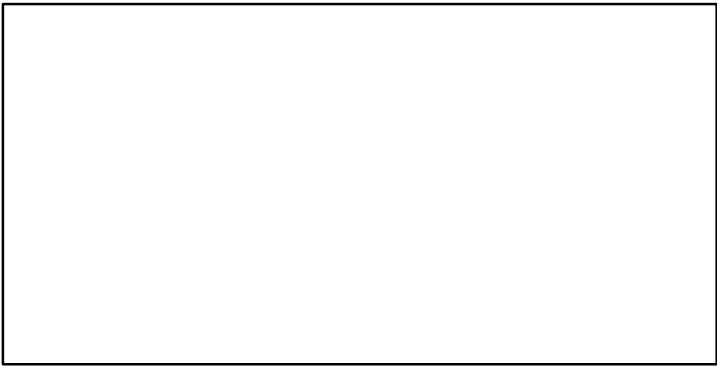
SSB*



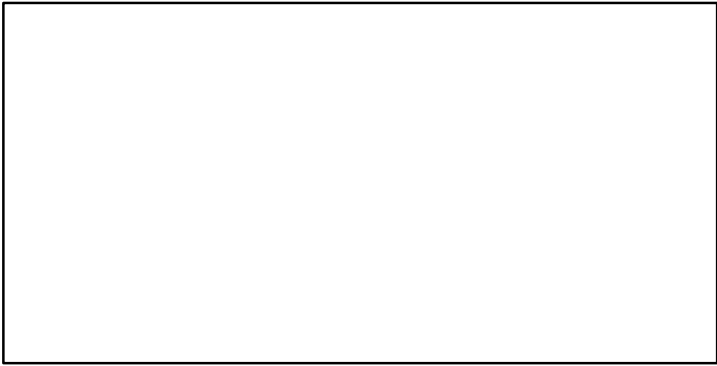
TN *



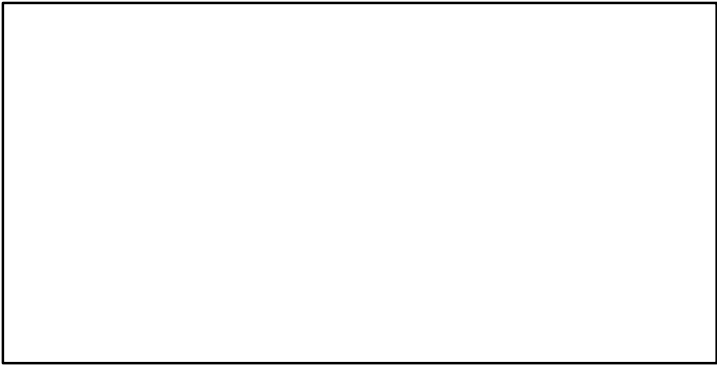
F*



ER*

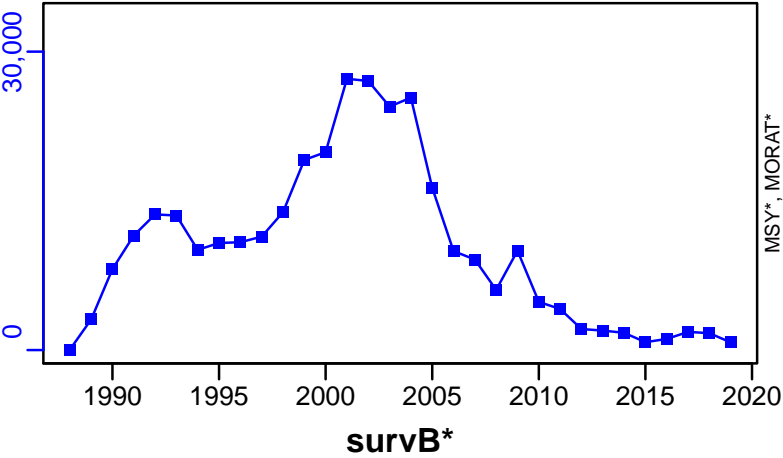


Recruits*

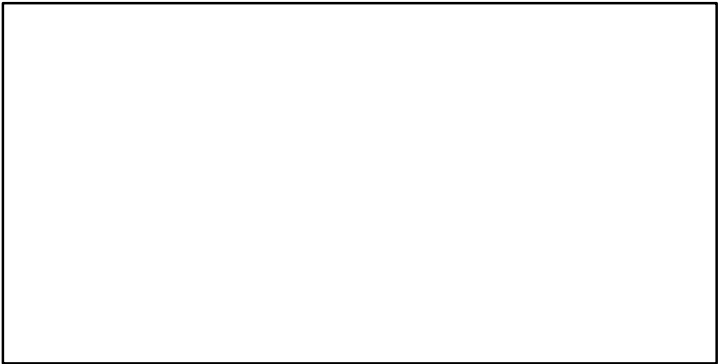


Roundnose grenadier ICES 5b-6-7-12b [RNGENVb-VI-VII-XIIb]

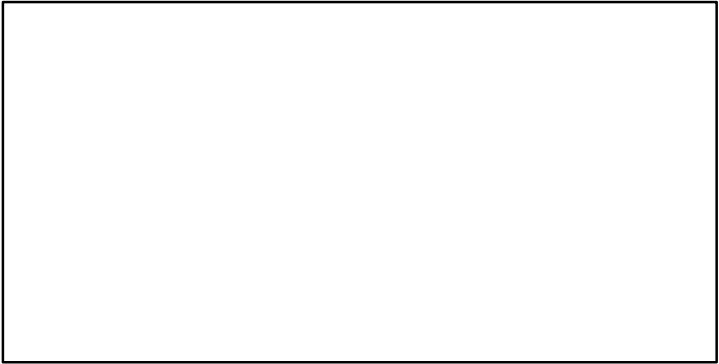
TL-MT, TC*, RecC* (1988-2019-ICESIMP2021-2)



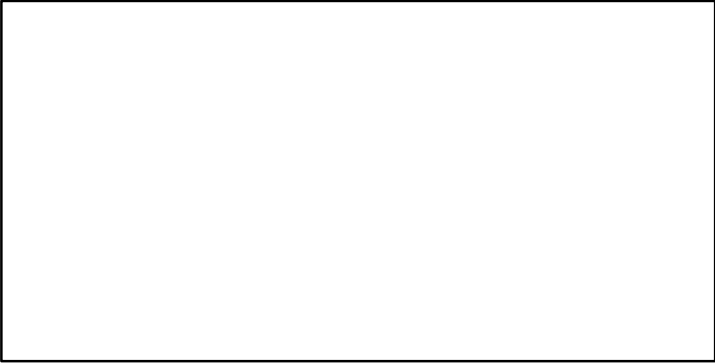
TAC*, Cpair*, Cadv*



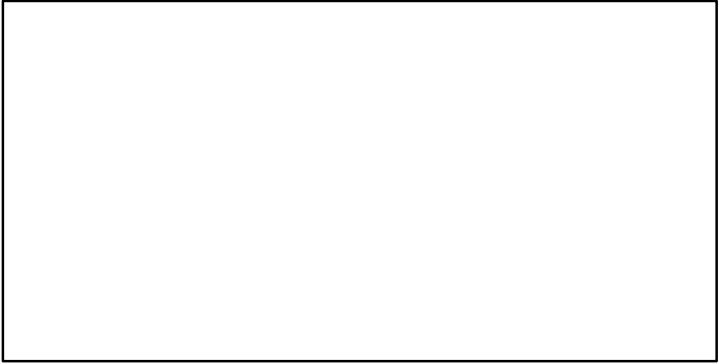
CPUE*



EFFORT*



CdivMSY*



Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGRENIIIa-1985-2019-ICESIMP2021-2
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2019, 2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2		
TL	TL-MT	2019	0.99		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

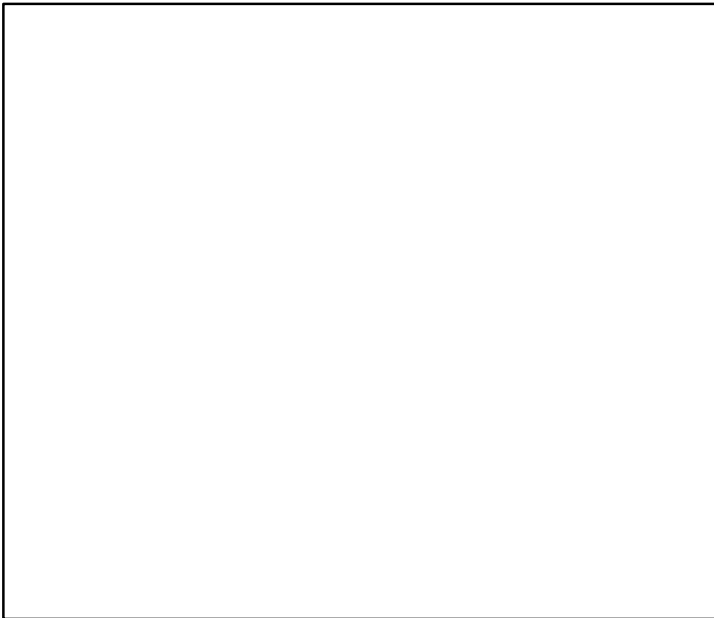
Kobe MSY*



Kobe MGT*



Spawner Recruit*



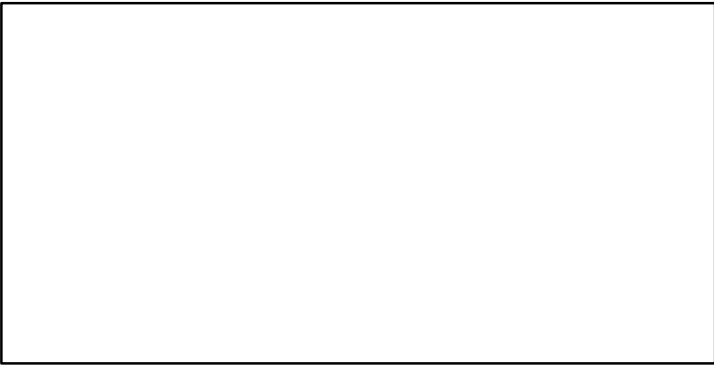
Production*



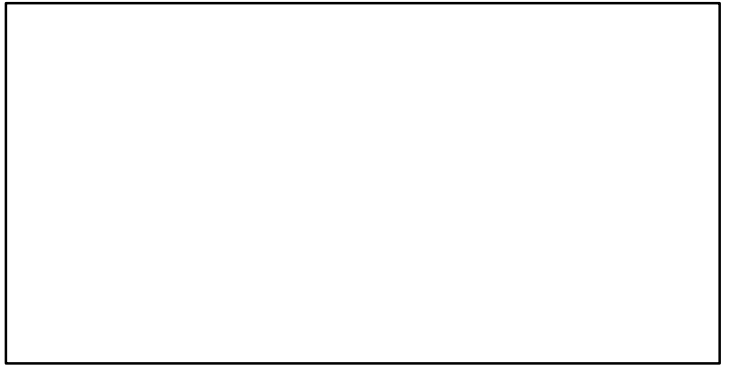
◆ Start Year ◆ End Year * No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

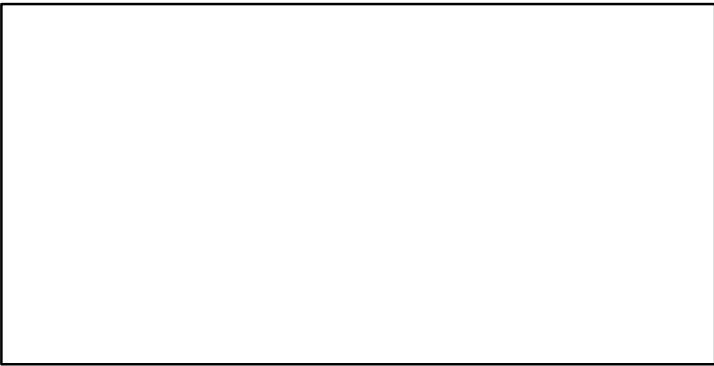
TB*



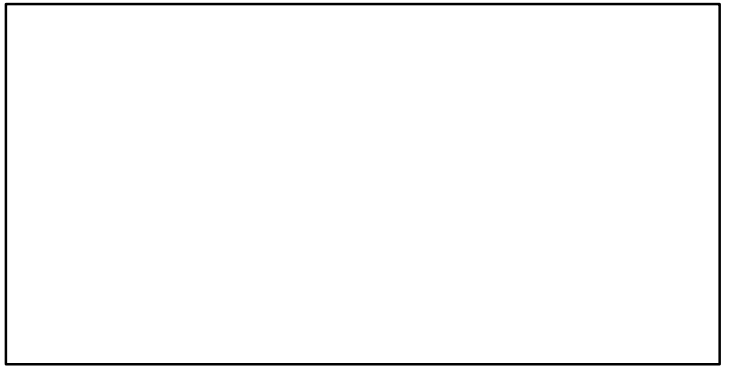
SSB*



TN *



F*



ER*

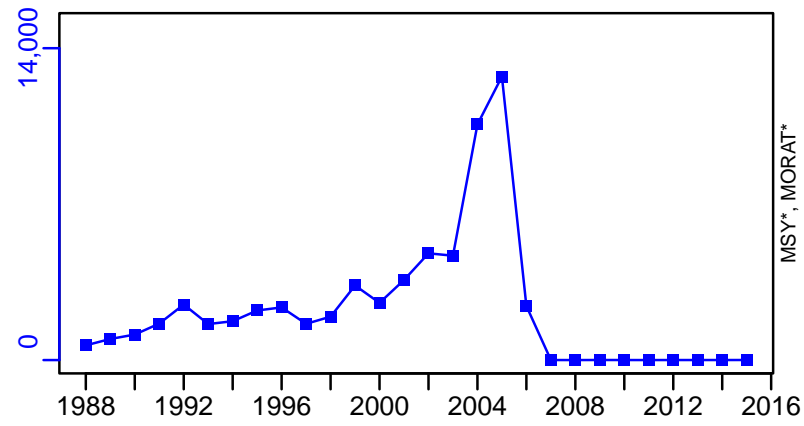


Recruits*

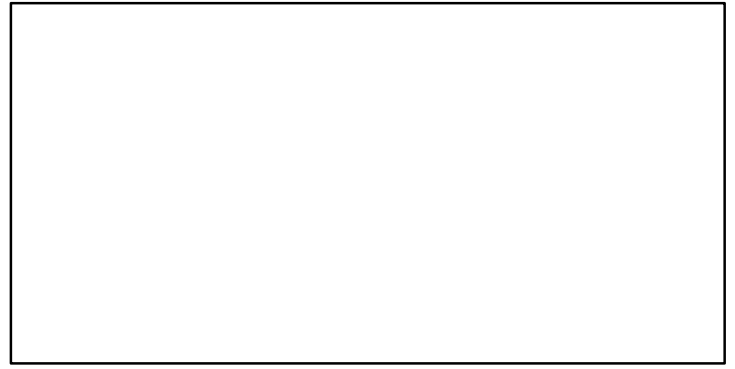


Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

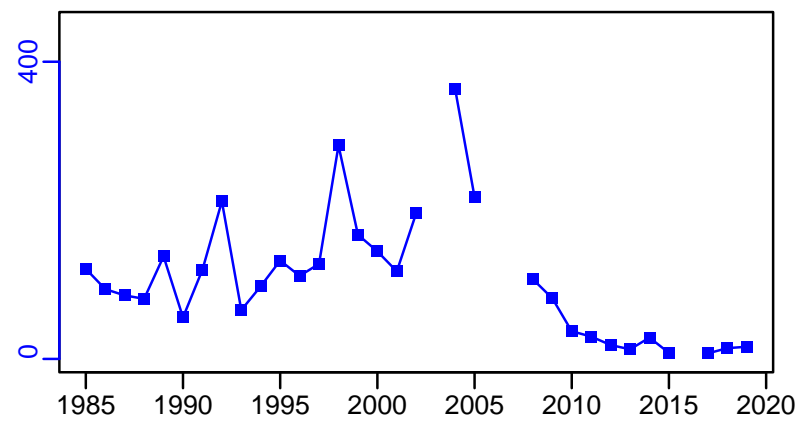
TC-MT, TL*, RecC* (1988–2016–ICESIMP2016)



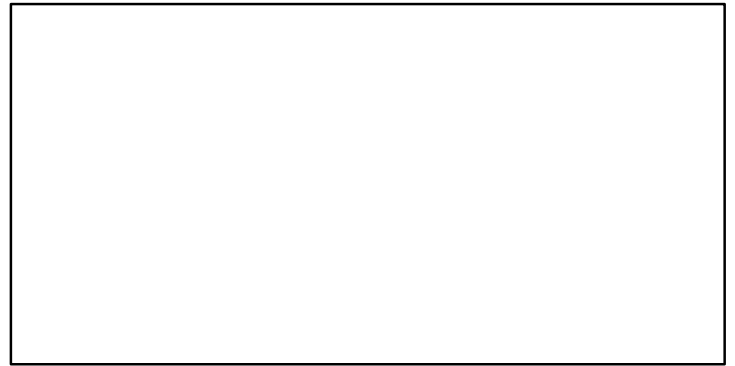
TAC*, Cpair*, Cadv*



survB-index (1985–2019–ICESIMP2021–2)



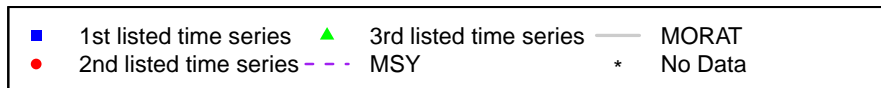
CPUE*



EFFORT*



CdivMSY*



Southern blue whiting Campbell Island Rise [SBWHITACIR]

Metadata	
Scientific Name	Micromesistius australis
Current Assess ID	NZMFishMIDDEPTHSWG-SBWHITACIR-1977-2013-FU
Area	Campbell Island Rise
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	Middle Depths Working Group
Asmts in RAM	2013, 2011

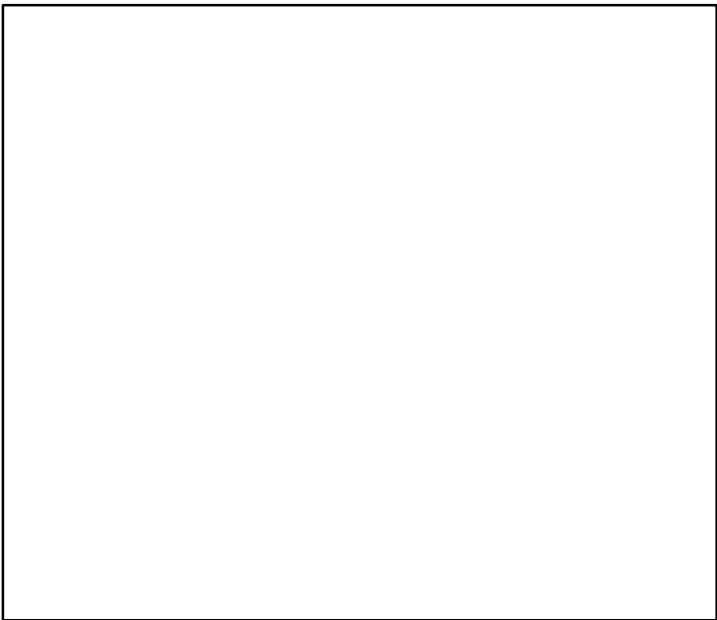
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	134,634
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	134,634
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2013	336,585
MSY	-	-	-
M	M-1/yr	2013	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	196,000	-	2 to 15
TN	-	-	-	-	-
R	R-E00	2013	1.33×10^8	Both	-
F	F-1/yr	2011	0.145	-	-
ER	ER-ratio	2013	0.14	Both	2 to 15
TC	TC-MT	2013	28,600		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.456		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.456		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

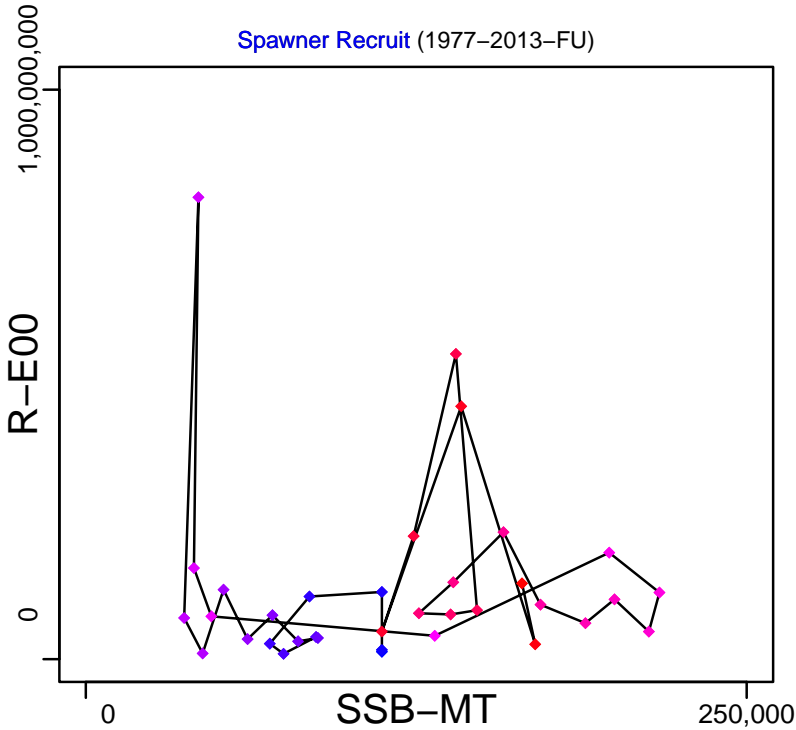
Kobe MSY*



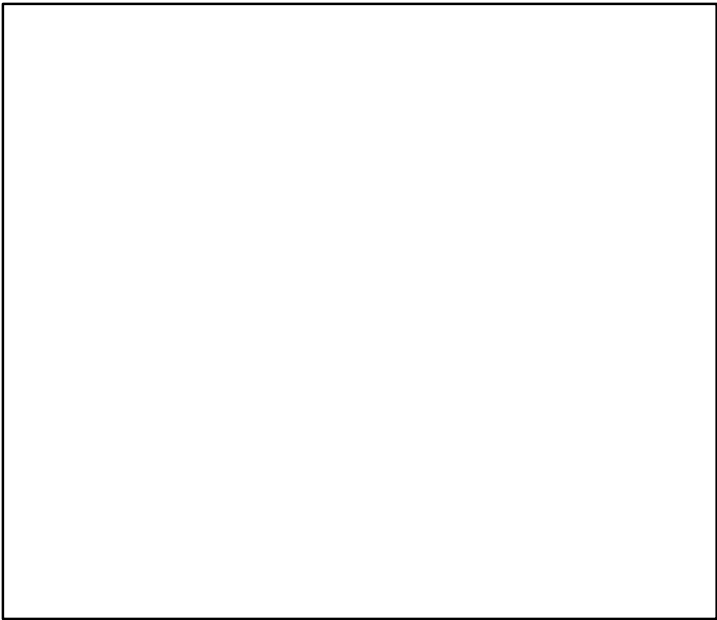
Kobe MGT*



Spawner Recruit (1977–2013–FU)



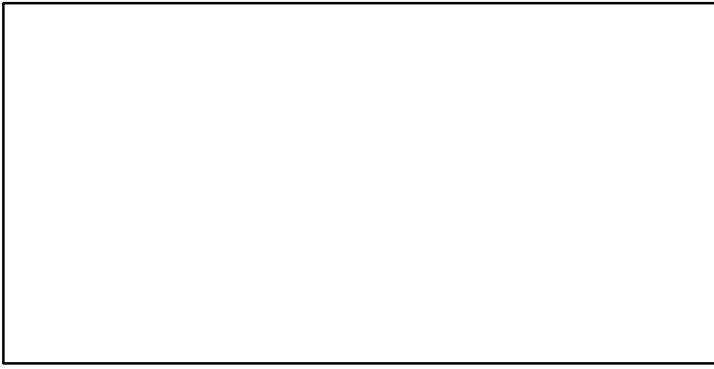
Production*



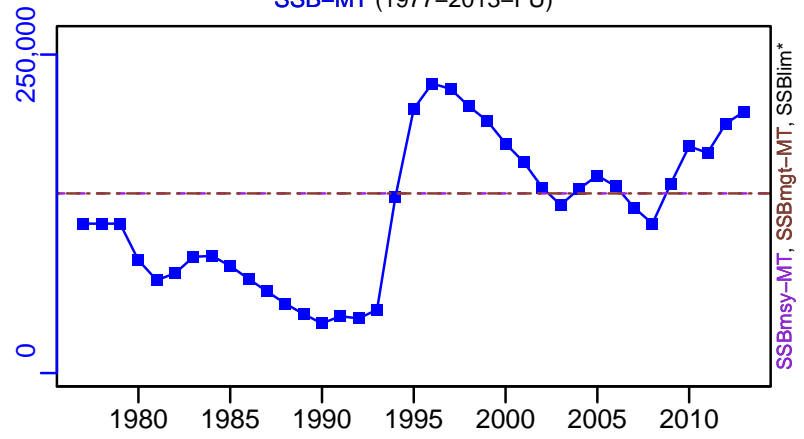
◆ Start Year ◆ End Year * No Data

Southern blue whiting Campbell Island Rise [SBWHITACIR]

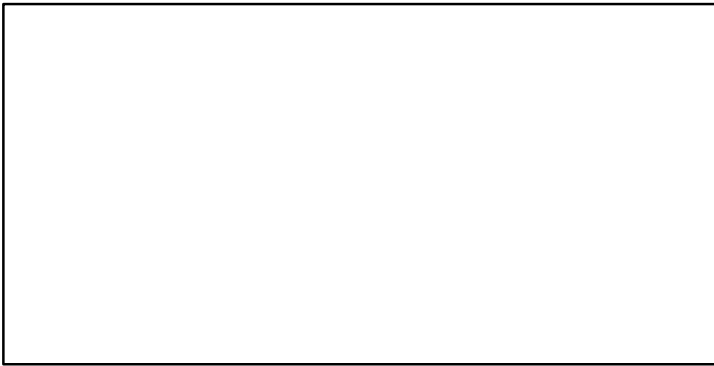
TB*



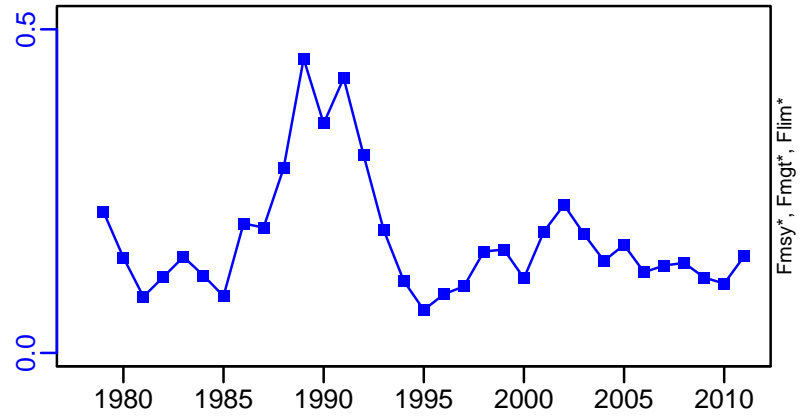
SSB-MT (1977-2013-FU)



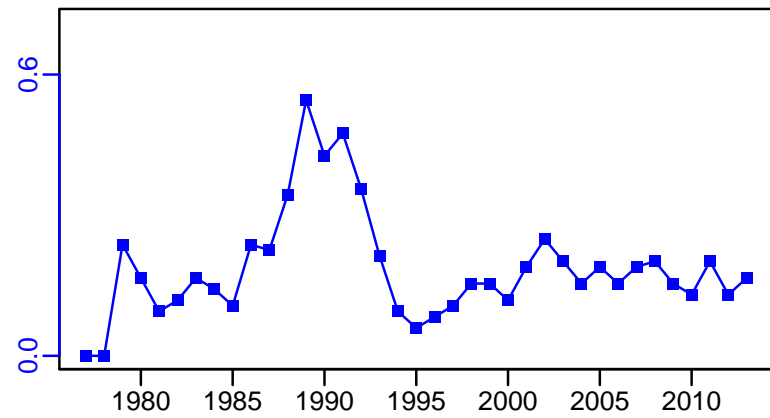
TN *



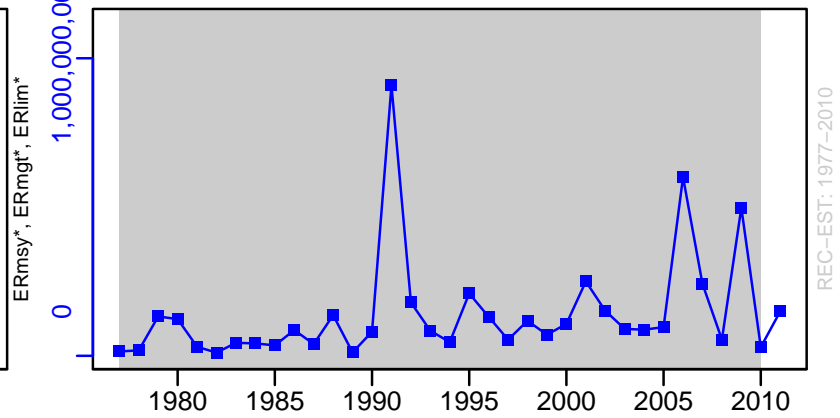
F-1/yr (1978-2011-CHING)



ER-ratio (1977-2013-FU)

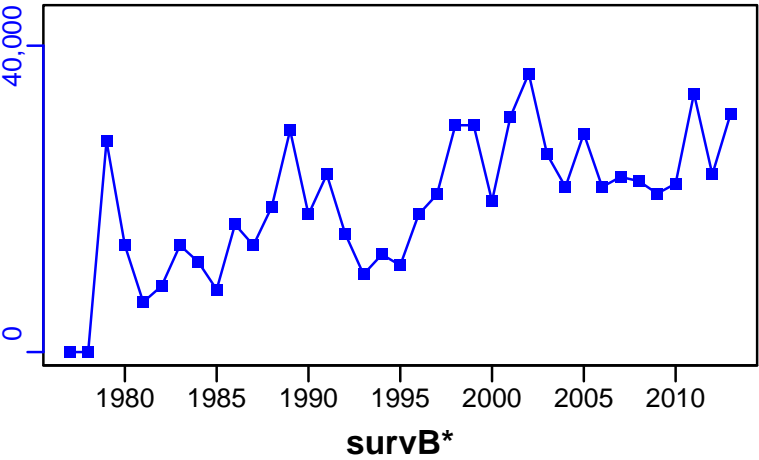


R-E00 (1977-2013-FU)

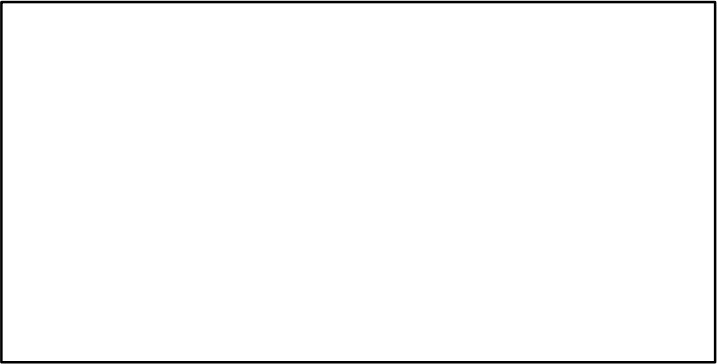
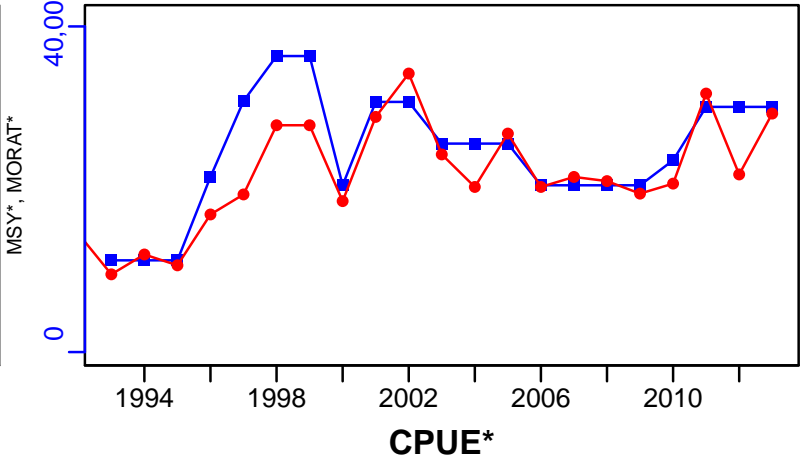


Southern blue whiting Campbell Island Rise [SBWHITACIR]

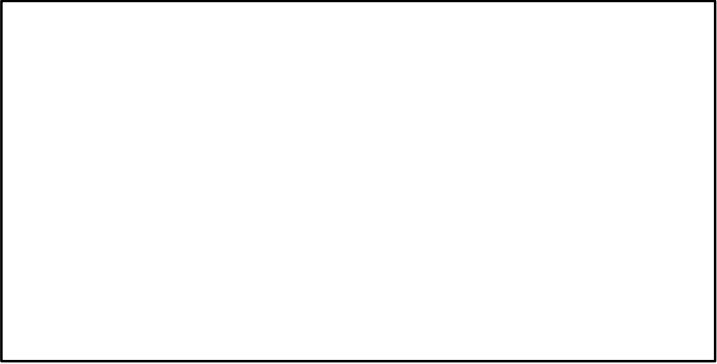
TC-MT, TL*, RecC* (1977-2013-FU)



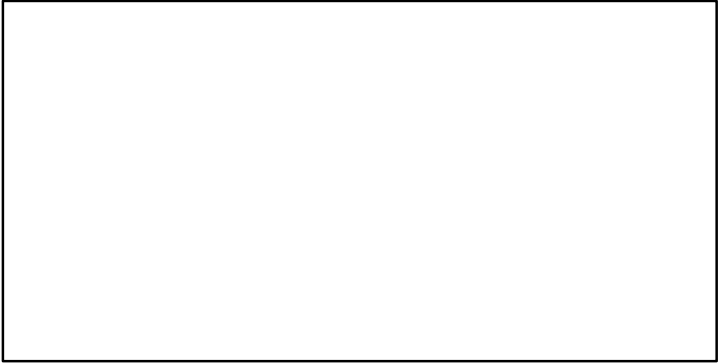
TAC-MT, Cpair-MT, Cadv* (1977-2013-FU)



EFFORT*



CdivMSY*



Southern blue whiting Southern Argentina [SBWHITARGS]

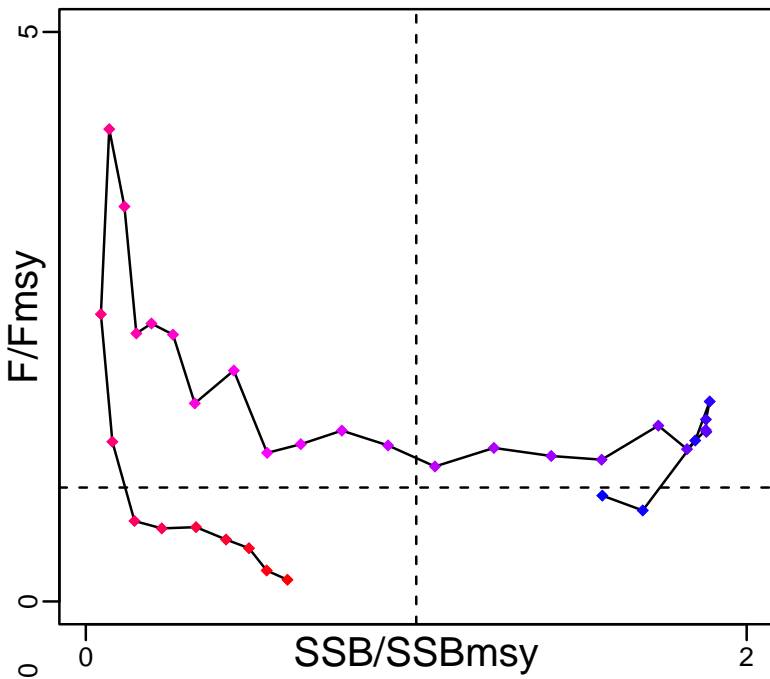
Metadata	
Scientific Name	Micromesistius australis
Current Assess ID	INIDEP-SBWHITARGS-1985-2020-PARMA
Area	Southern Argentina
Management Authority	Consejo Federal Pesquero, Argentina national management
Assessor	Instituto Nacional de Investigacion y Desarrollo Pesquero
Asmts in RAM	2007, 2015, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2020	565,722
Fmsy	Fmsy-1/yr	2020	0.184
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	454,500
Fmgt	Fmgt-1/yr	2020	0.181
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2015	1,515,000
MSY	MSY-MT	2020	96,296
M	M-1/yr	2020	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	303,000
Flim	-	-	-
ERlim	-	-	-

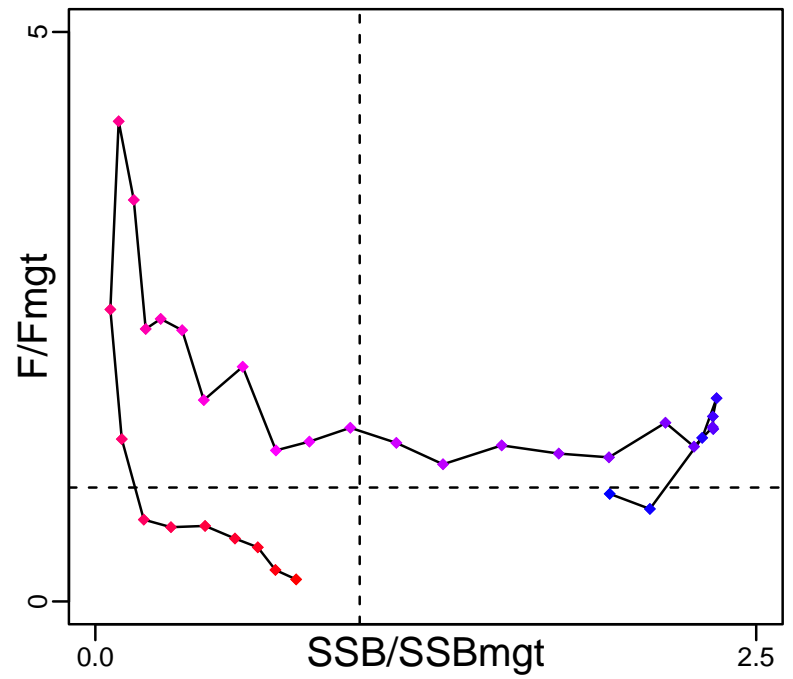
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	435,368	-	1+
SSB	SSB-MT	2020	345,247	Both	2+
TN	-	-	-	-	-
R	R-E00	2020	273,046,667	-	1
F	F-1/yr	2020	0.035	-	3-21+
ER	ER-calc-ratio	2020	0.039	-	-
TC	TC-MT	2020	15,050		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	0.61		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.19		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.76		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	0.193		
ER/ERmgt	-	-	-		

Southern blue whiting Southern Argentina [SBWHITARGS]

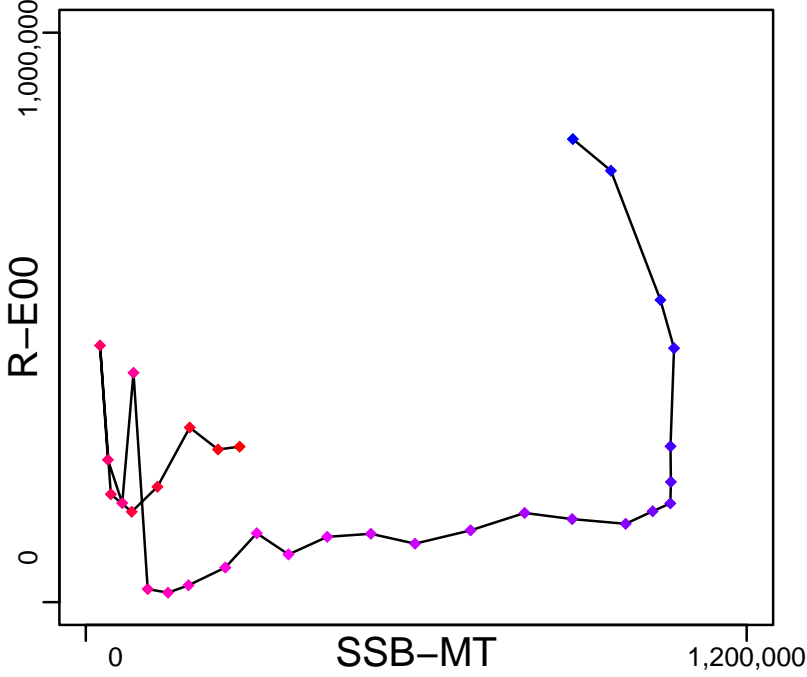
Kobe MSYpref (1985–2020–PARMA)



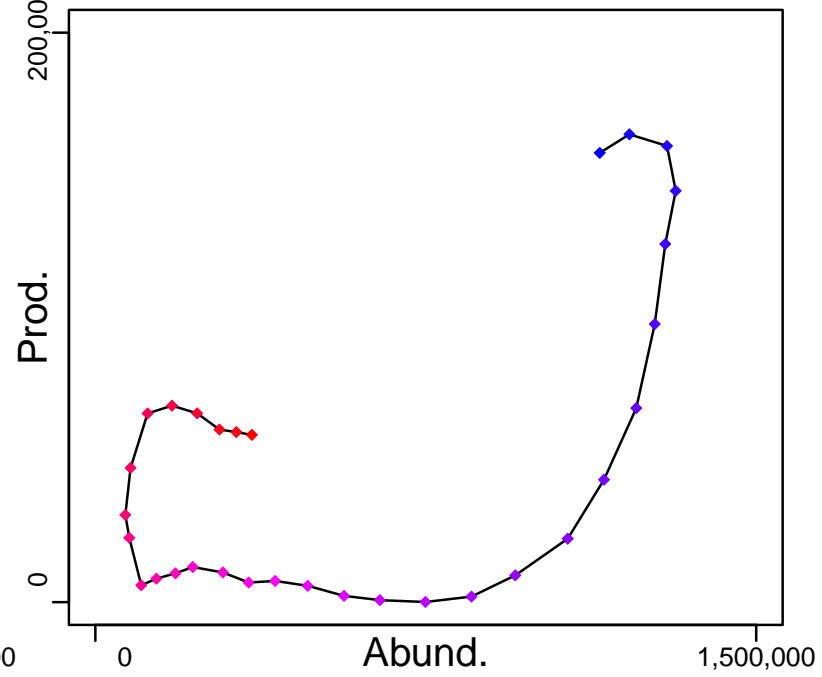
Kobe MGTpref (1985–2020–PARMA)



Spawner Recruit (1985–2020–PARMA)



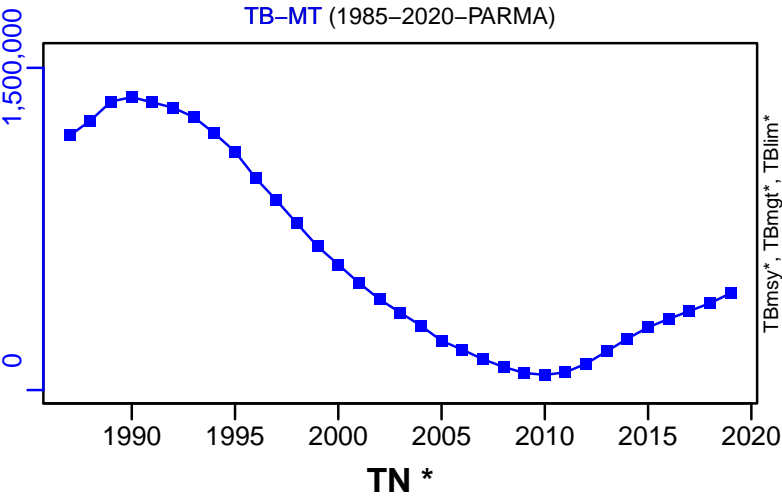
Production (1985–2020–PARMA)



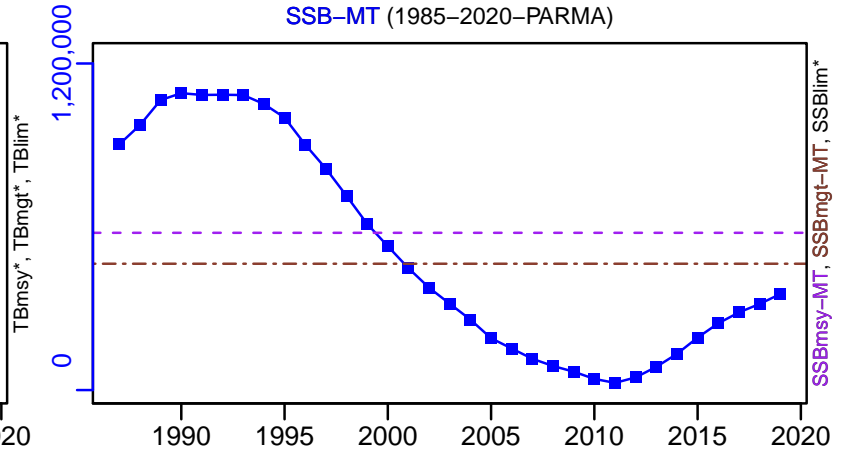
◆ Start Year ◆ End Year * No Data

Southern blue whiting Southern Argentina [SBWHITARGS]

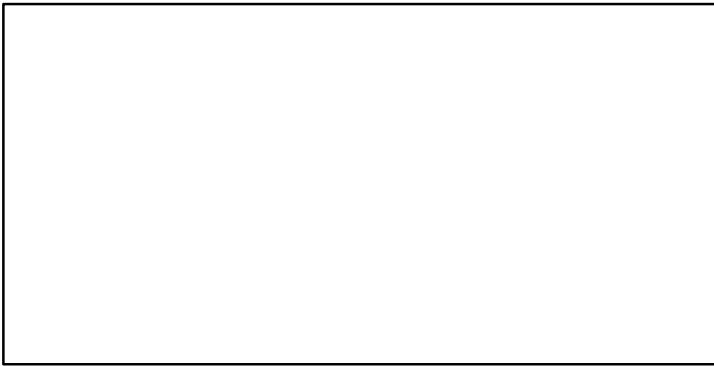
TB-MT (1985-2020-PARMA)



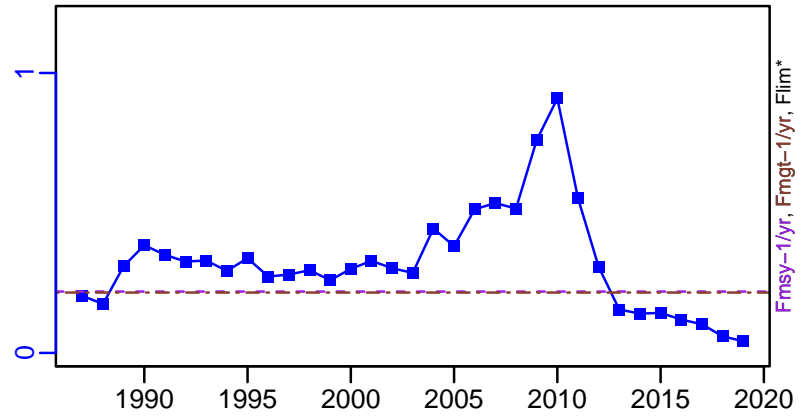
SSB-MT (1985-2020-PARMA)



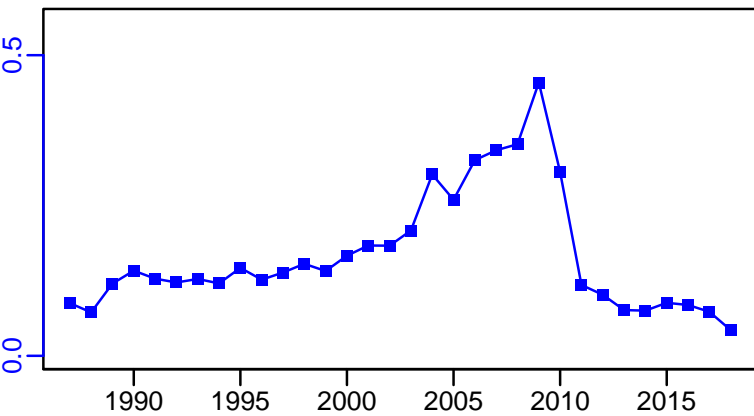
TN *



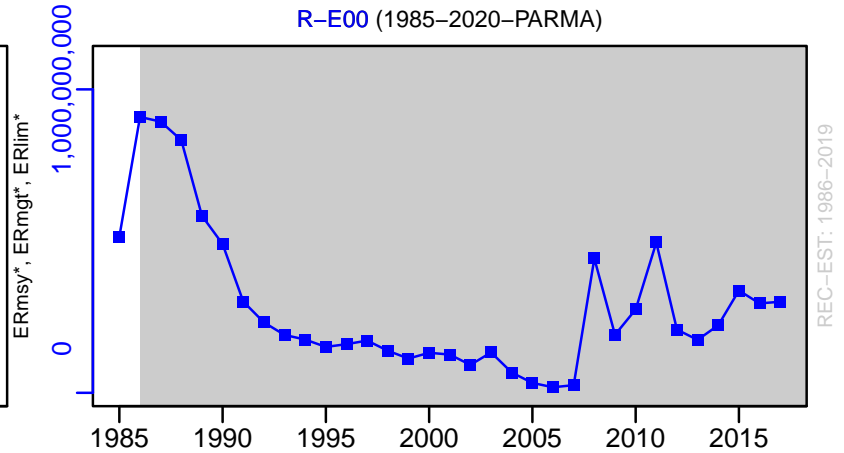
F-1/yr (1985-2020-PARMA)



ER-calc-ratio (1985-2020-PARMA)

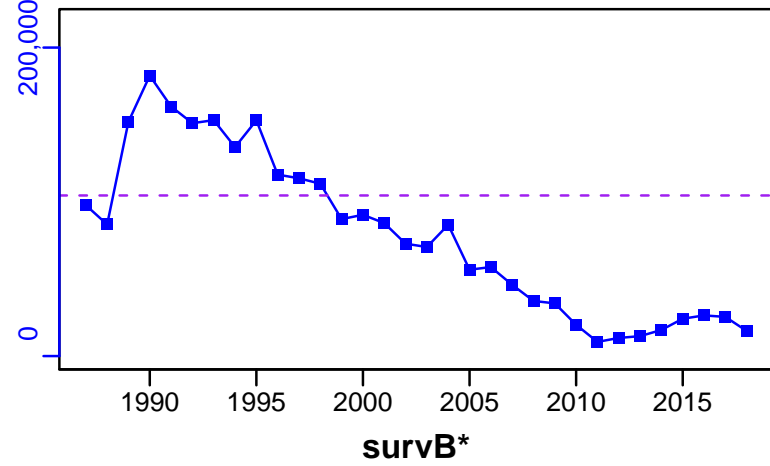


R-E00 (1985-2020-PARMA)

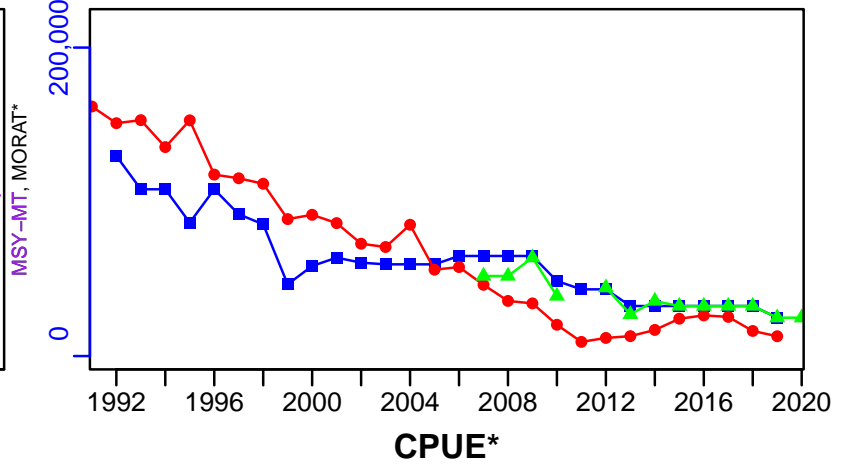


Southern blue whiting Southern Argentina [SBWHITARGS]

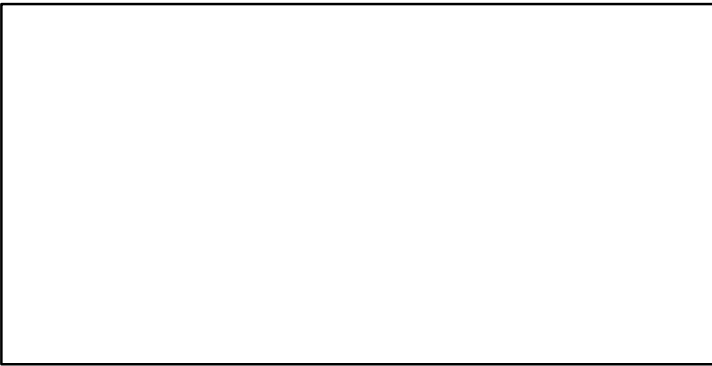
TC-MT, TL*, RecC* (1985-2020-PARMA)



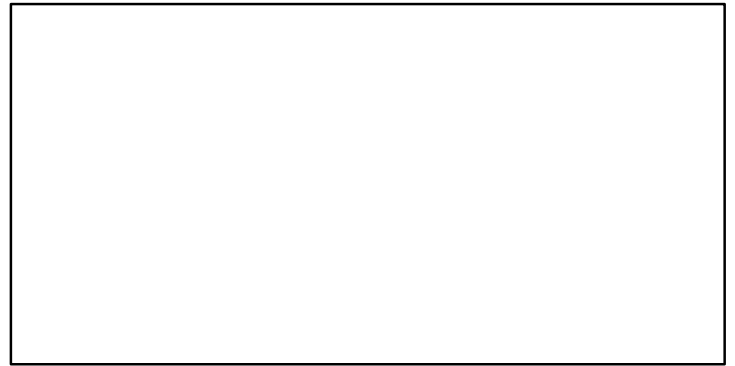
TAC-MT, Cpair-MT, Cadvised-MT (1985-2020-PARMA)



survB*



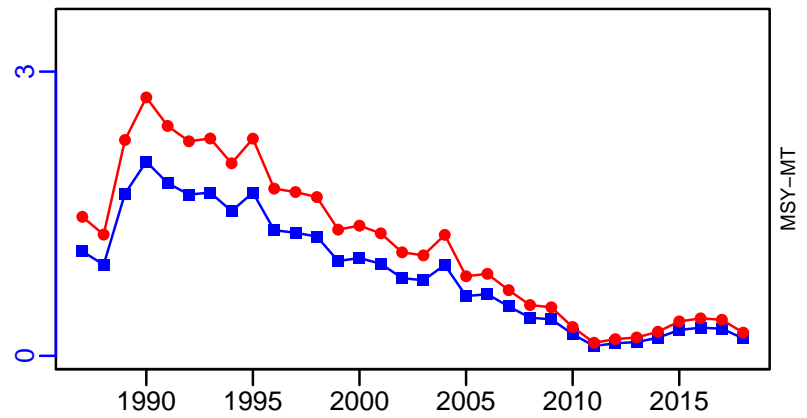
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985-2020-PARMA)



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

Southern blue whiting Central-Southern Chile [SBWHITCH]

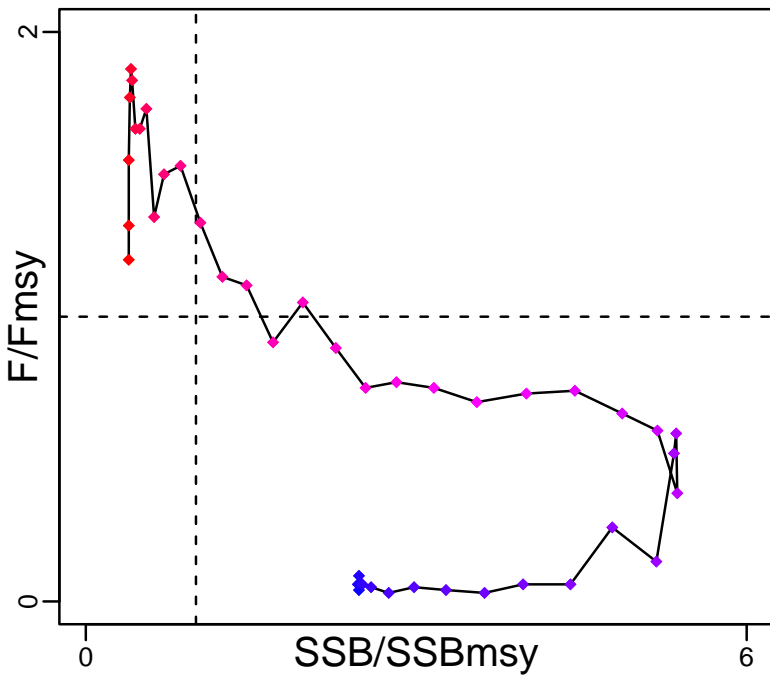
Metadata	
Scientific Name	Micromesistius australis
Current Assess ID	IFOPCH-SBWHITCH-1978-2020-Quiroz
Area	Central-Southern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2015, 2016, 2020, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2020	183,968
Fmsy	Fmsy-pr-1/yr	2020	0.194
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	183,968
Fmgt	Fmgt-1/yr	2015	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2020	459,920
MSY	-	-	-
M	M-1/yr	2016	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

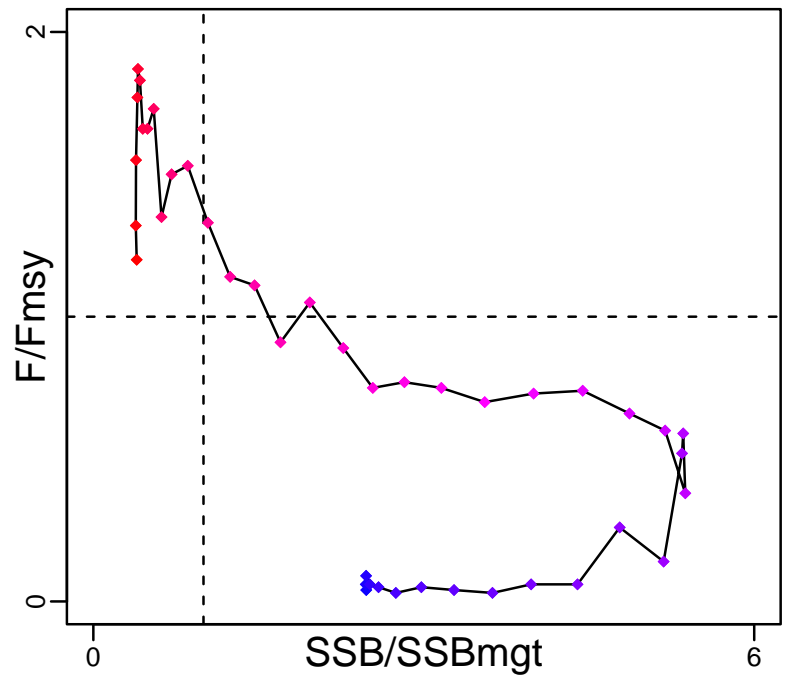
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	130,562	Both	-
SSB	SSB-MT	2020	72,421	Both	-
TN	-	-	-	-	-
R	R-E00	2020	121,775	Both	-
F	F-1/yr	2020	0.23	Both	-
ER	ER-calc-ratio	2020	0.02	-	-
TC	TC-MT	2020	2634		
TL	TL-MT	2015	16,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	0.39		
F/Fmsy	FdivFmsy-dimensionless	2020	1.2		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.394		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.02		
ER/ERmgt	-	-	-		

Southern blue whiting Central–Southern Chile [SBWHITCH]

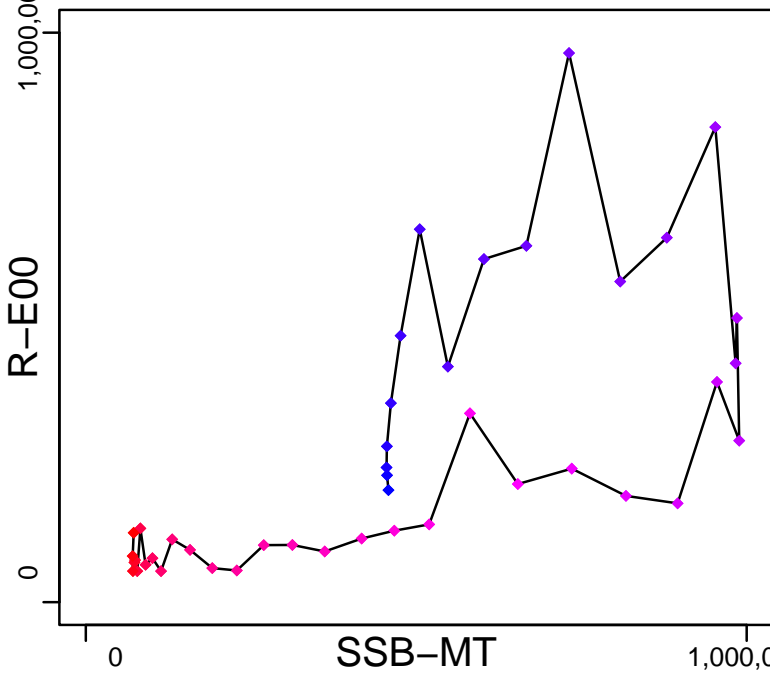
Kobe MSYpref (1978–2020–Quiroz)



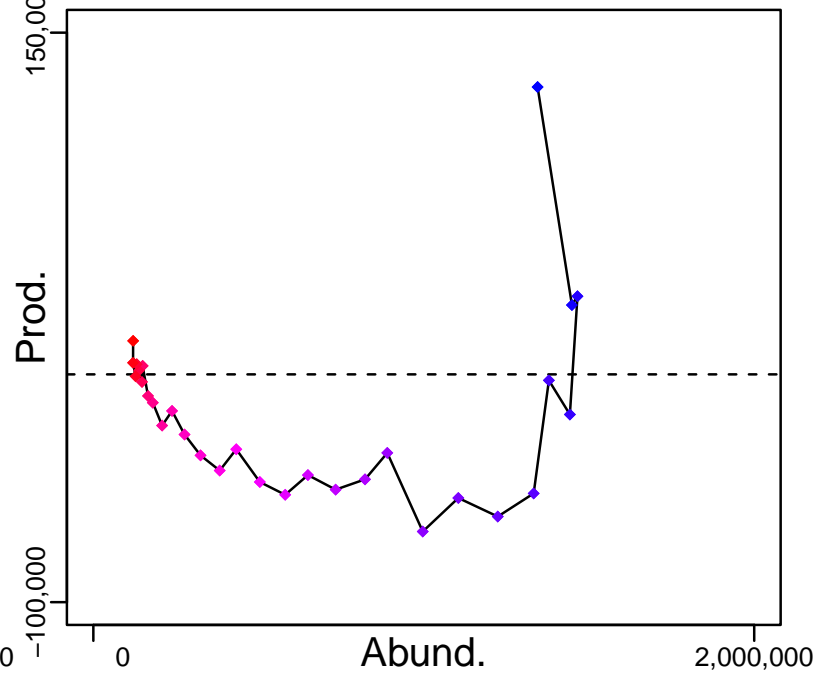
Kobe MGTpref (1978–2020–Quiroz)



Spawner Recruit (1978–2020–Quiroz)



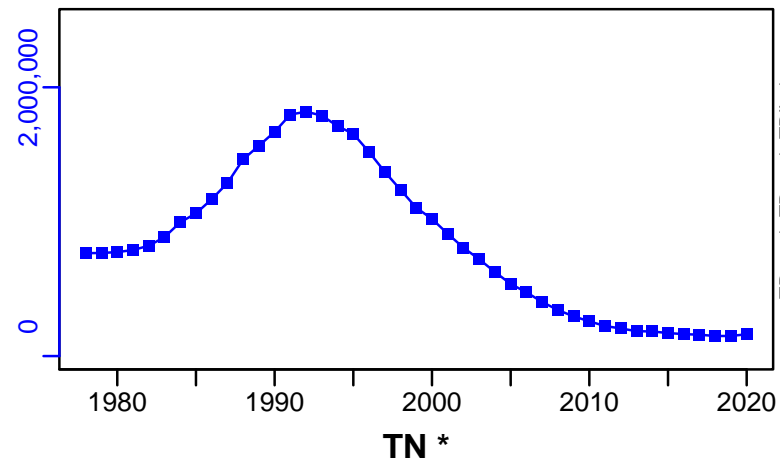
Production (1978–2020–Quiroz)



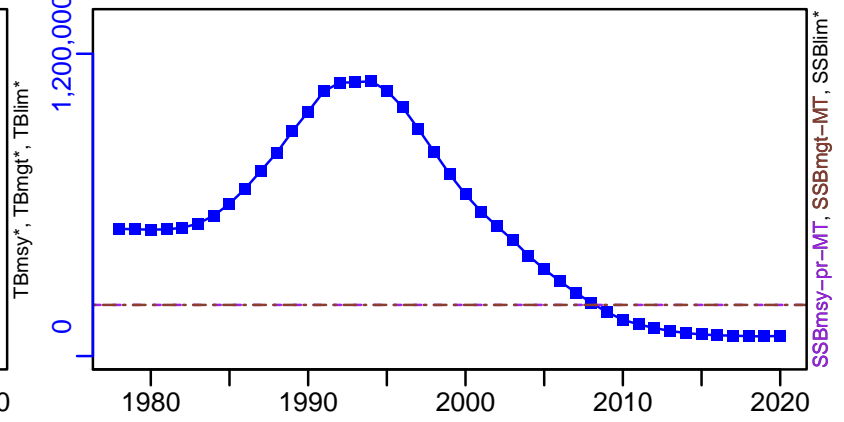
◆ Start Year ◆ End Year * No Data

Southern blue whiting Central–Southern Chile [SBWHITCH]

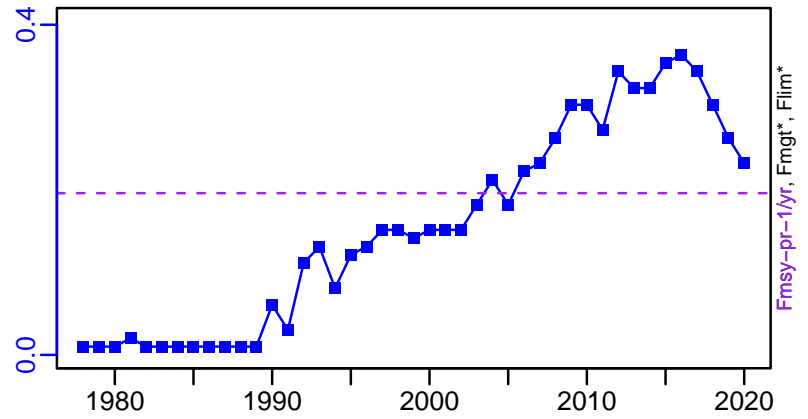
TB–MT (1978–2020–Quiroz)



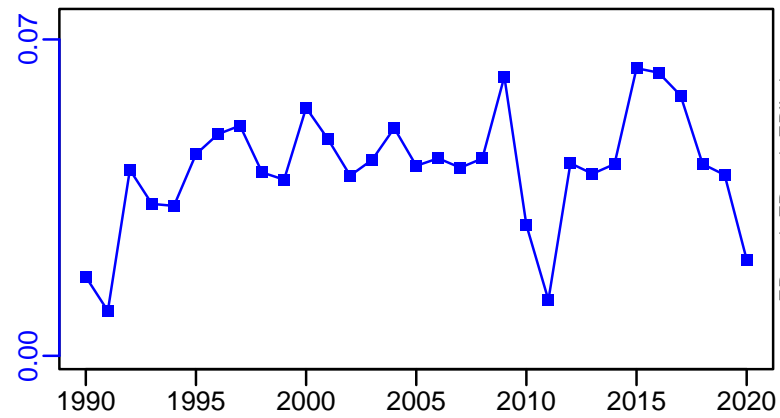
SSB–MT (1978–2020–Quiroz)



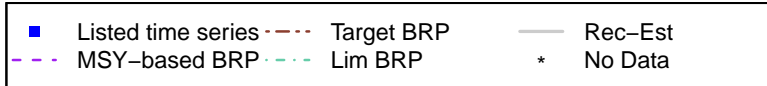
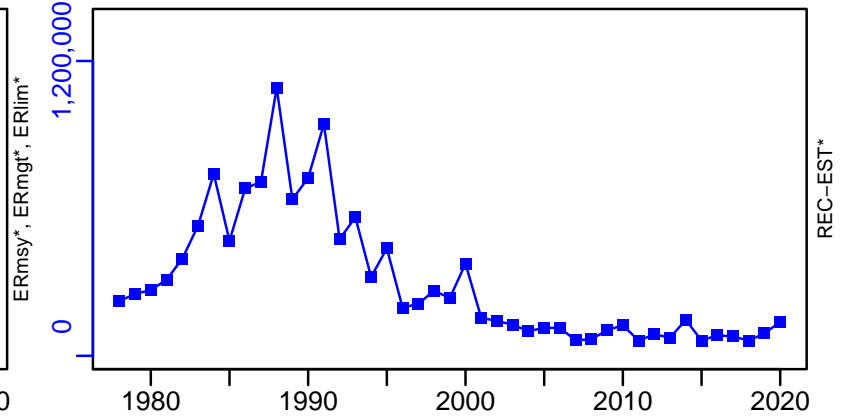
F–1/yr (1978–2020–Quiroz)



ER–calc–ratio (1978–2020–Quiroz)

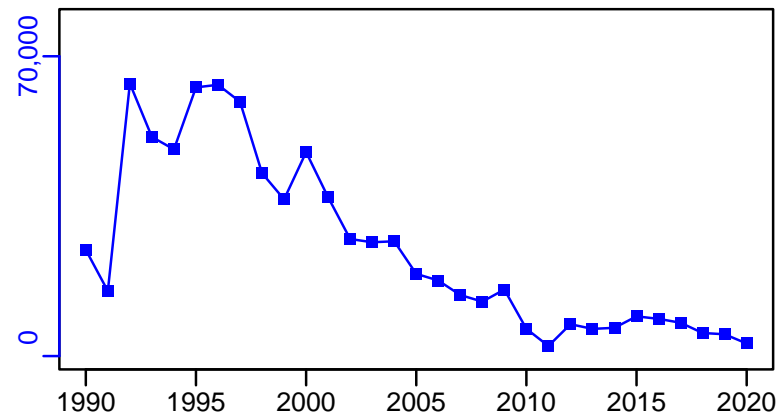


R–E00 (1978–2020–Quiroz)

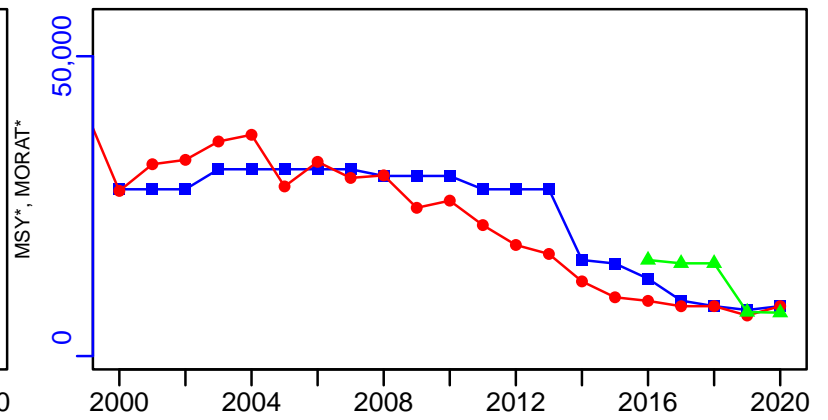


Southern blue whiting Central–Southern Chile [SBWHITCH]

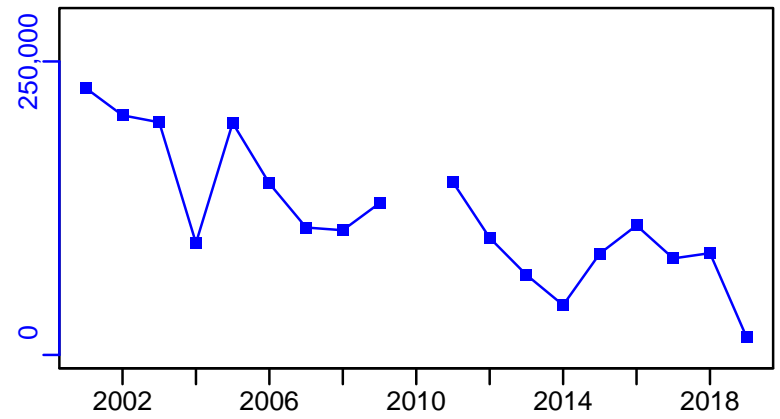
TC–MT, TL*, RecC* (1978–2020–Quiroz)



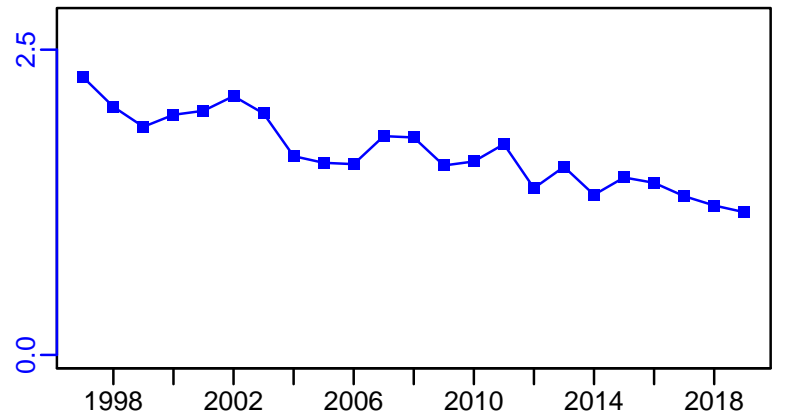
TAC–MT, Cpair–MT, Cadvised–MT (1978–2020–Quiroz)



survB_absolute–MT (1978–2020–Quiroz)



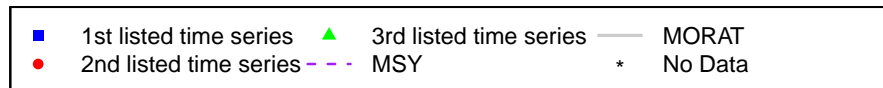
CPUE–index (1978–2020–Quiroz)



EFFORT*



CdivMSY*



Silver hake Scotian Shelf and Bay of Fundy [SHAKE4VWX]

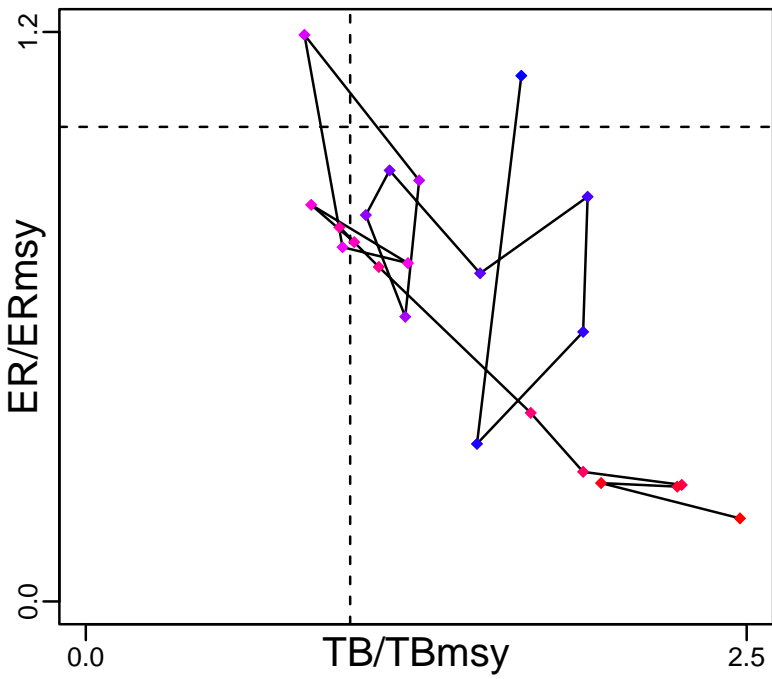
Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	DFO-MAR-SHAKE4VWX-1969-2015-OSGOOD
Area	Scotian Shelf and Bay of Fundy
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	59,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.32
ERmsy	ERmsy-calc-ratio	2015	0.271
TBmgt	TBmgt-MT	2015	47,200
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	16,000
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

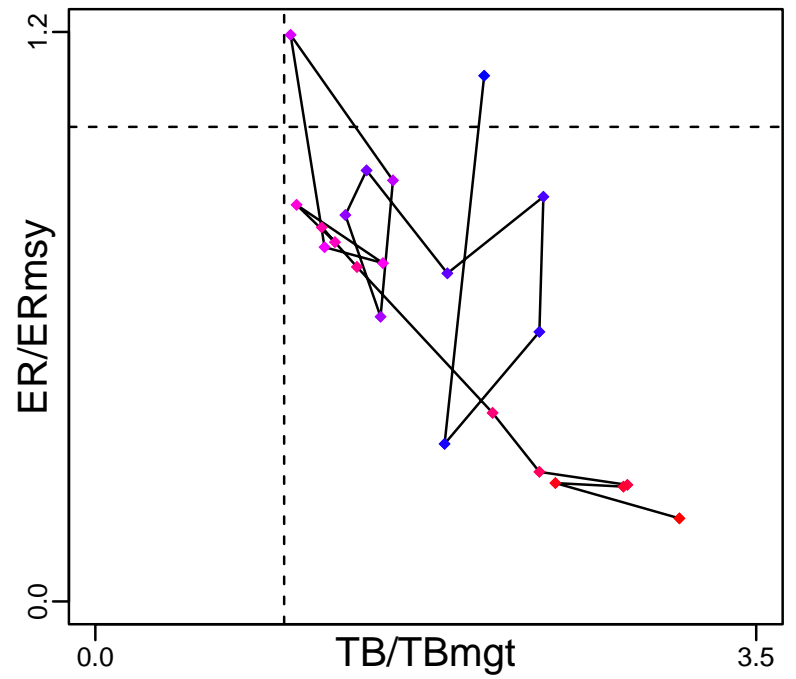
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	122,000	Both	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	2.56×10^8	Both	-
F	F-1/yr	2015	0.048	-	-
ER	ER-calc-ratio	2015	0.047	-	-
TC	-	-	-		
TL	TL-MT	2015	6930		
TB/TBmsy	TB-MT/TBmsy-MT	2015	2.068		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.149		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.175		
TB/TBmgt	TB-MT/TBmgt-MT	2015	2.585		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Silver hake Scotian Shelf and Bay of Fundy [SHAKE4VWX]

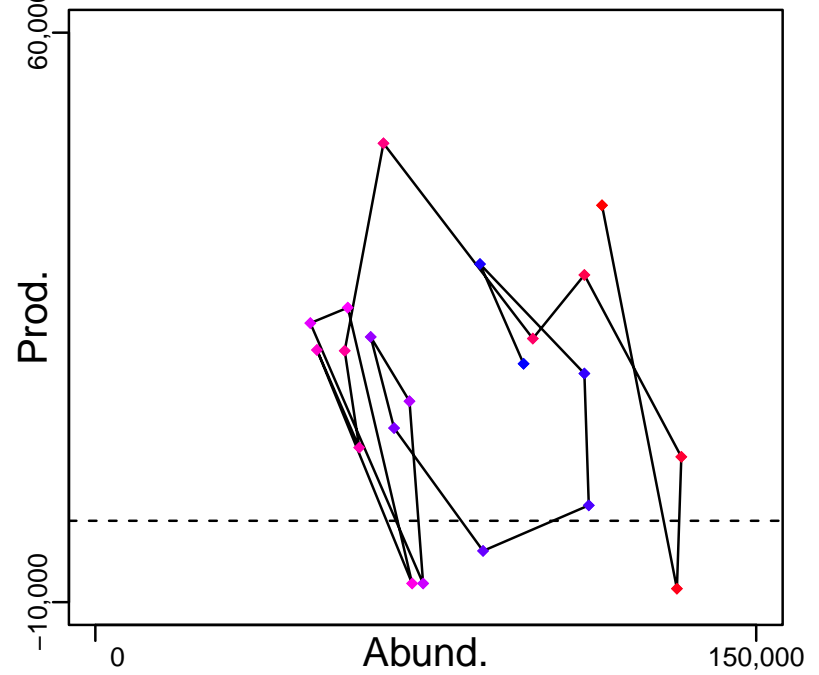
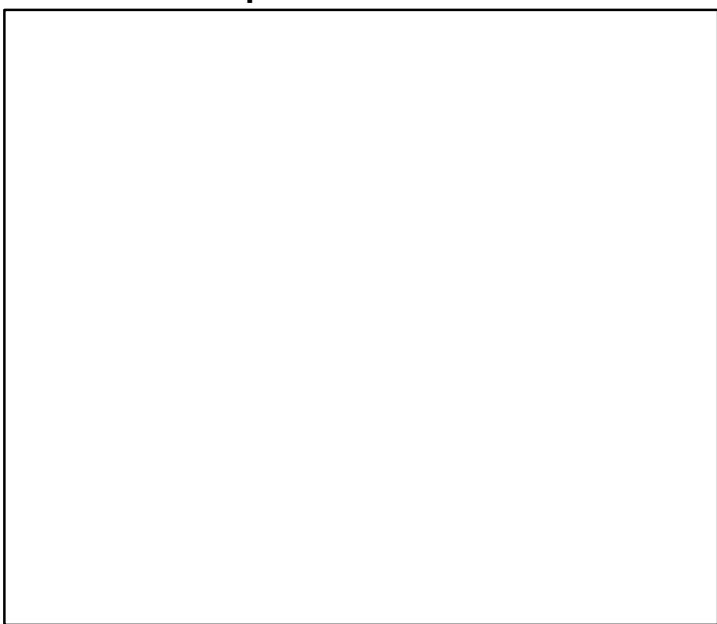
Kobe MSYpref (1969–2015–OSGOOD)



Kobe MGTpref (1969–2015–OSGOOD)



Production (1969–2015–OSGOOD)

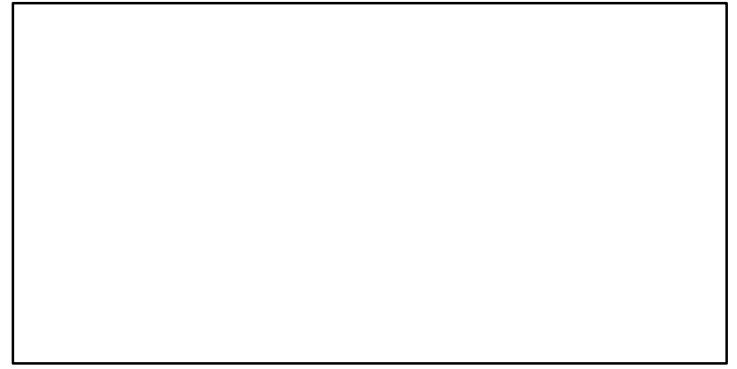
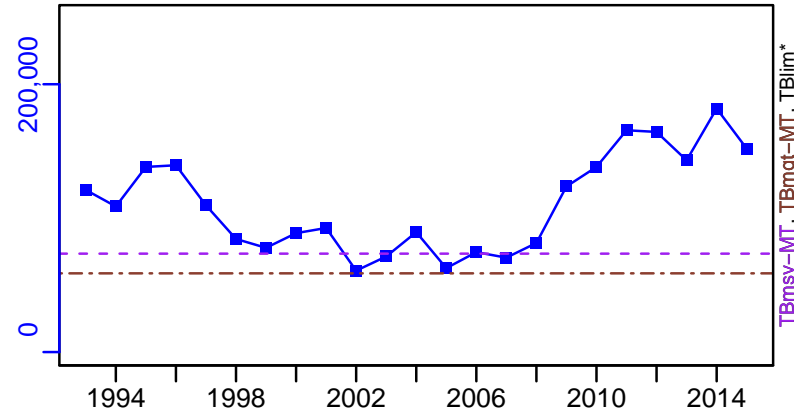


◆ Start Year ◆ End Year * No Data

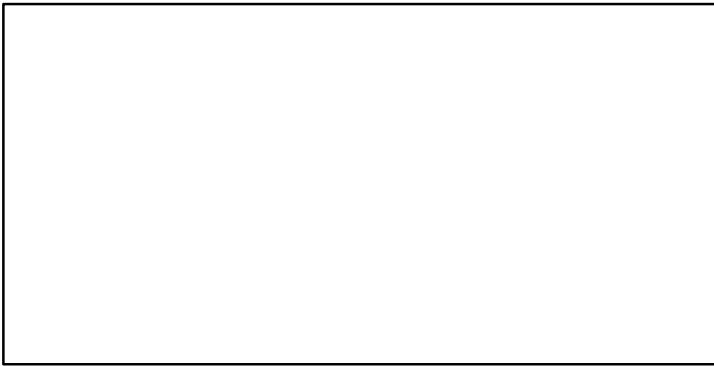
Silver hake Scotian Shelf and Bay of Fundy [SHAKE4VWX]

TB-MT (1969-2015-OSGOOD)

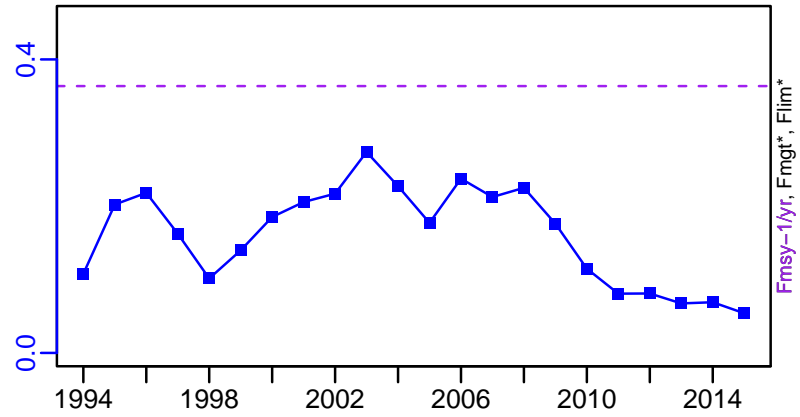
SSB*



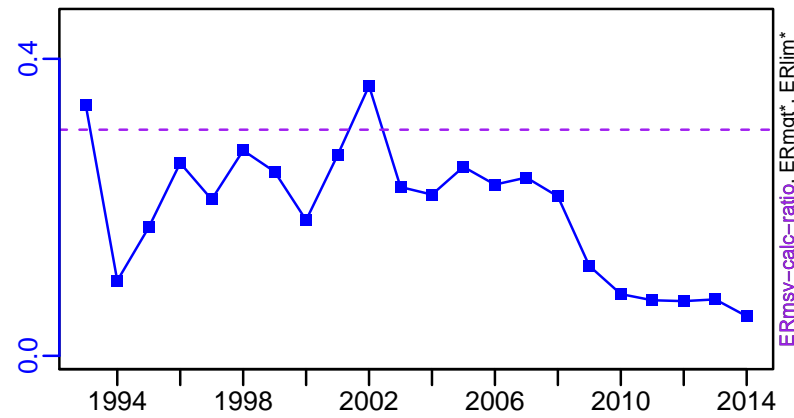
TN *



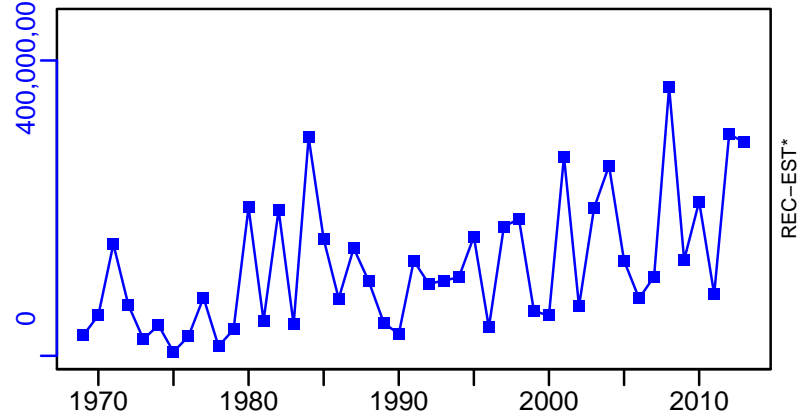
F-1/yr (1969-2015-OSGOOD)



ER-calc-ratio (1969-2015-OSGOOD)

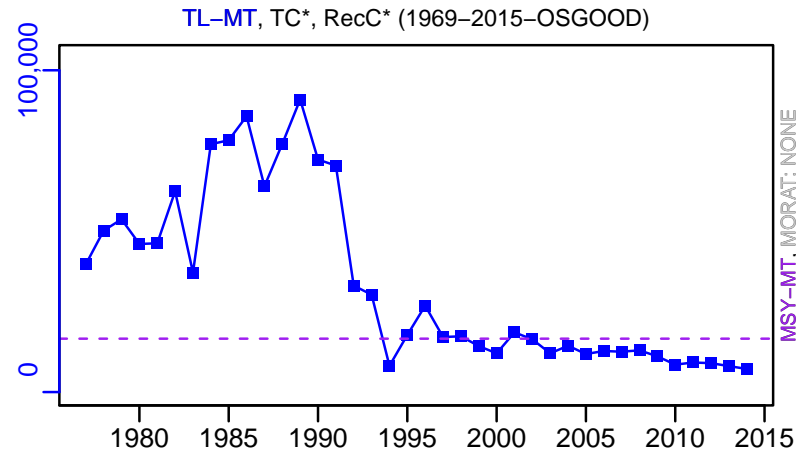


R-E00 (1969-2015-OSGOOD)

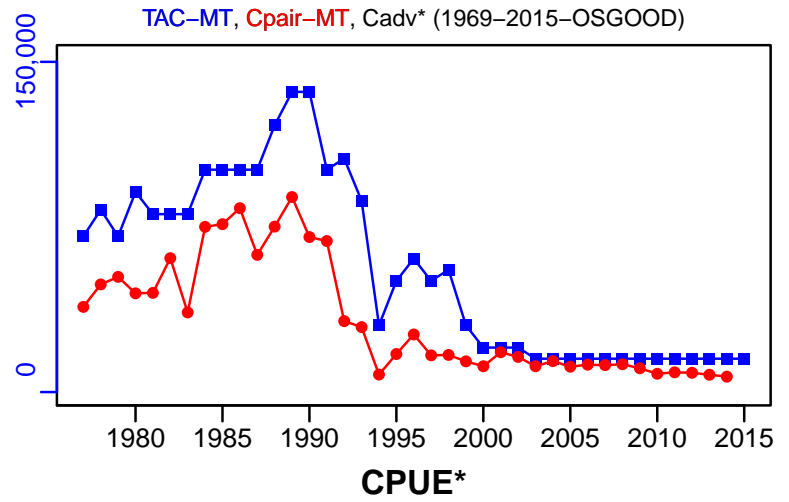


Silver hake Scotian Shelf and Bay of Fundy [SHAKE4VWX]

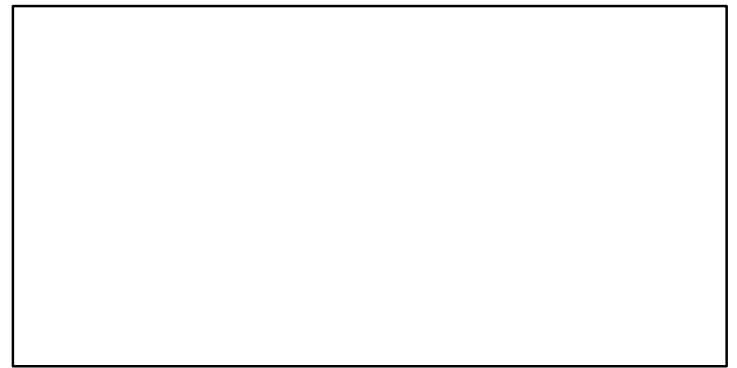
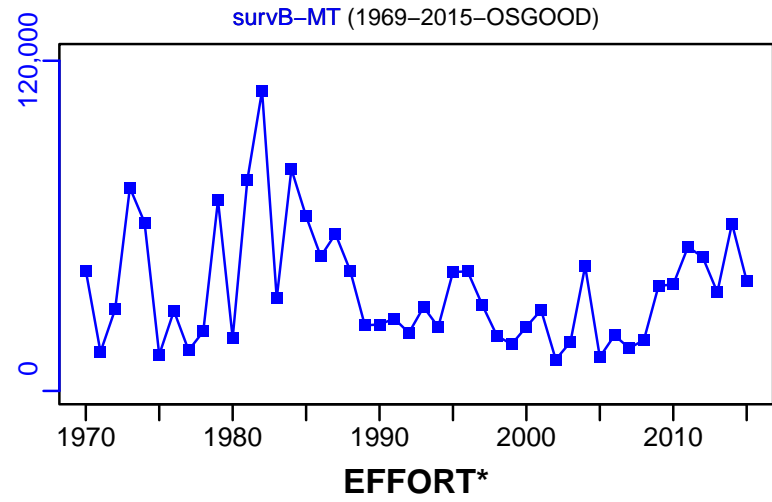
TL-MT, TC*, RecC* (1969–2015–OSGOOD)



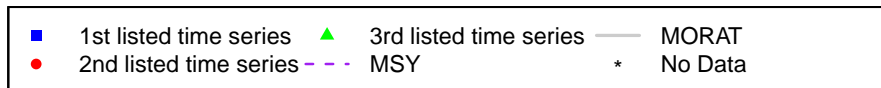
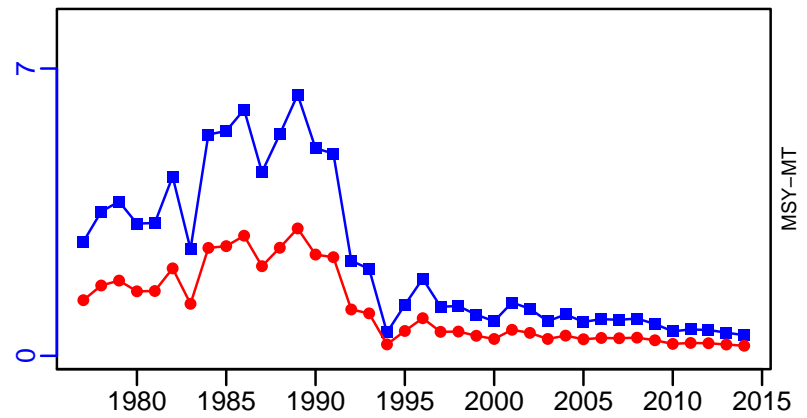
TAC-MT, Cpair-MT, Cadv* (1969–2015–OSGOOD)



survB-MT (1969–2015–OSGOOD)



TL-MT/MSY-MT, CdivMEANC-ratio, (1969–2015–OSGOOD)



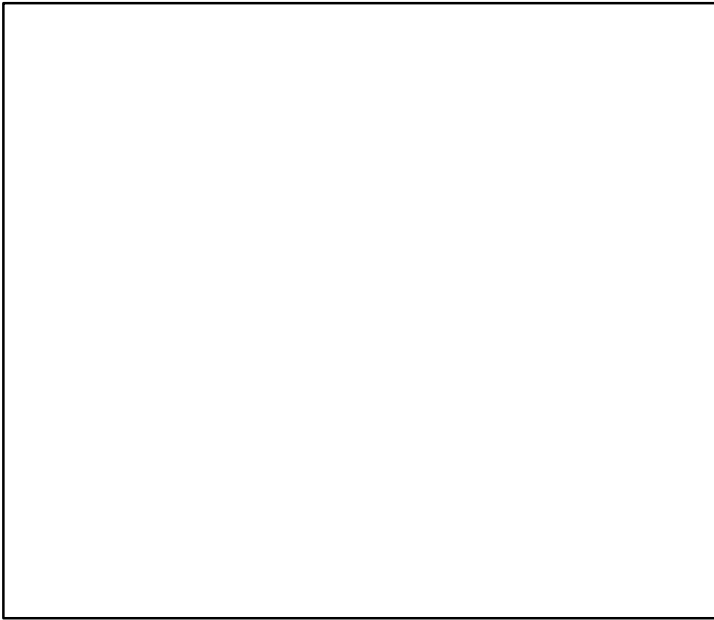
Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKEGOMNGB-1973-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2013, 2016, 2019

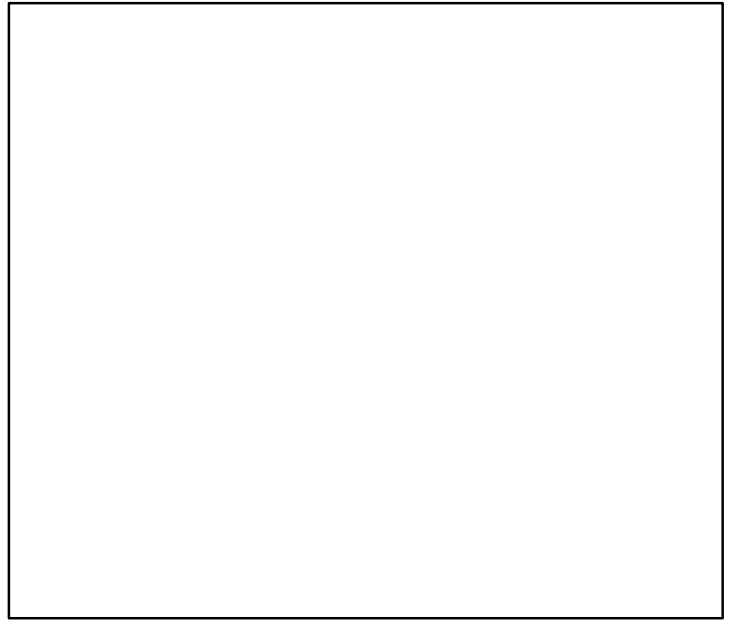
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	3213
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	2.77
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	8900
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	2.77

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2009	14,300,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.15	-	-
TC	TC-MT	2019	1300		
TL	TL-MT	2009	972		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.054		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

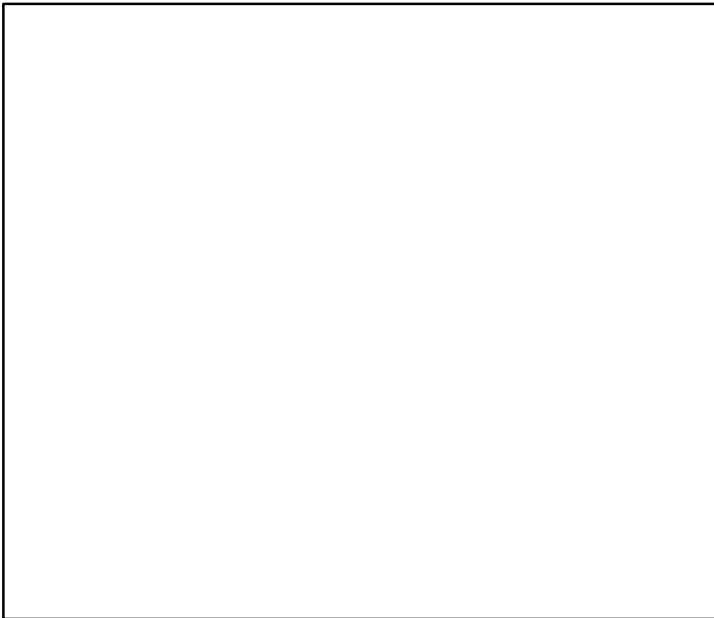
Kobe MSY*



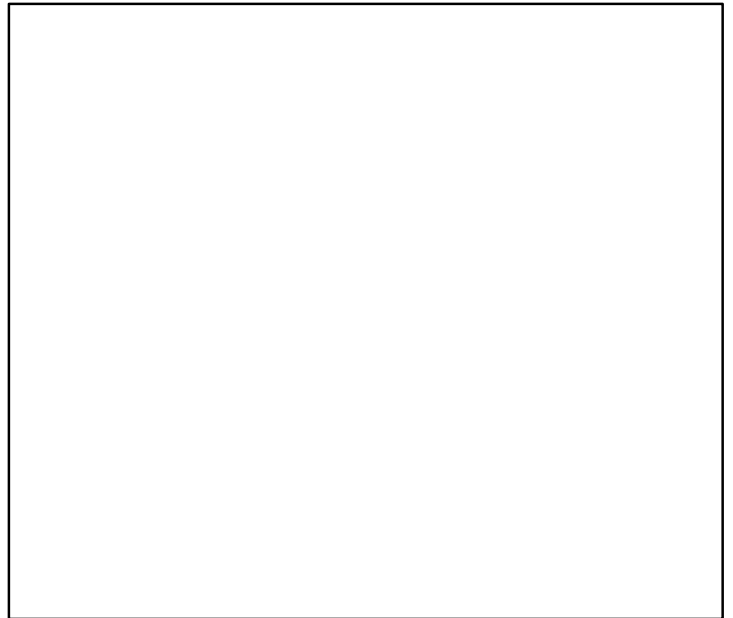
Kobe MGT*



Spawner Recruit*



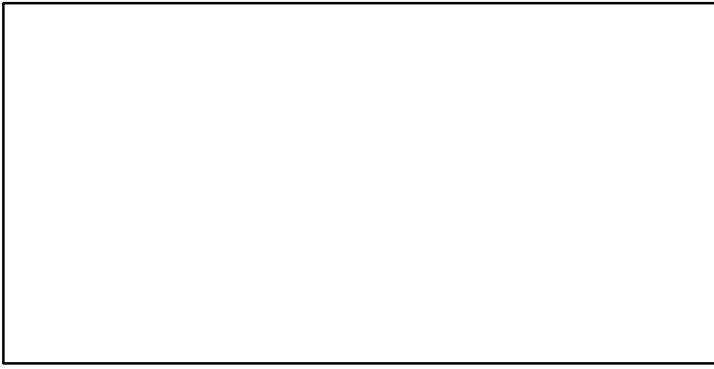
Production*



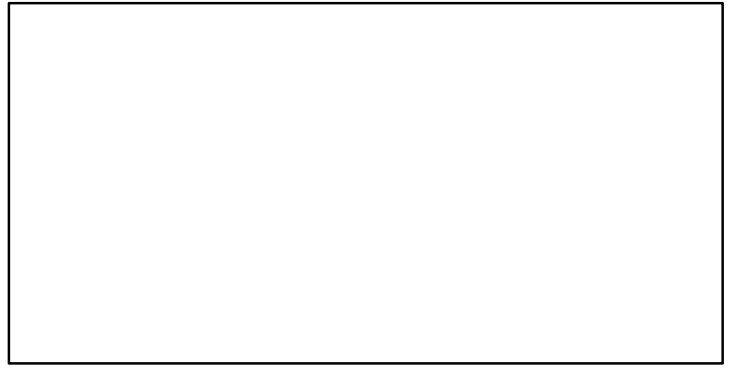
◆ Start Year ◆ End Year * No Data

Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

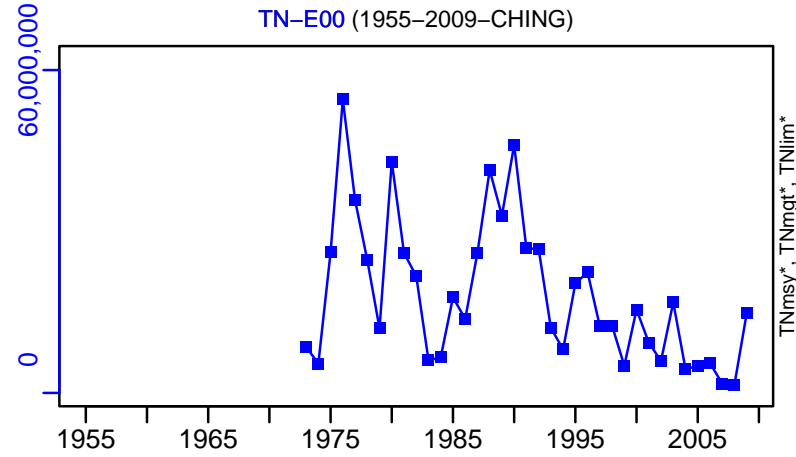
TB*



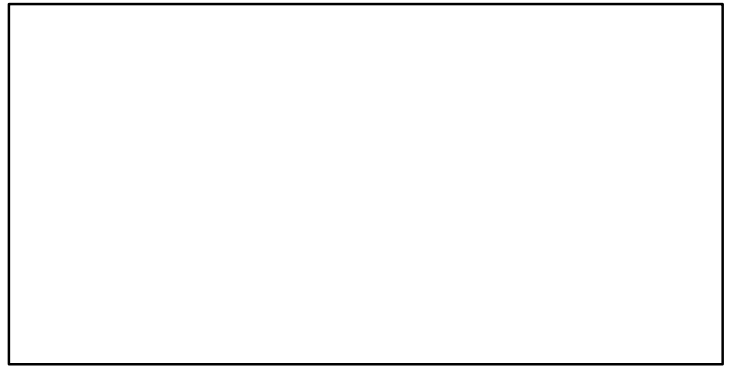
SSB*



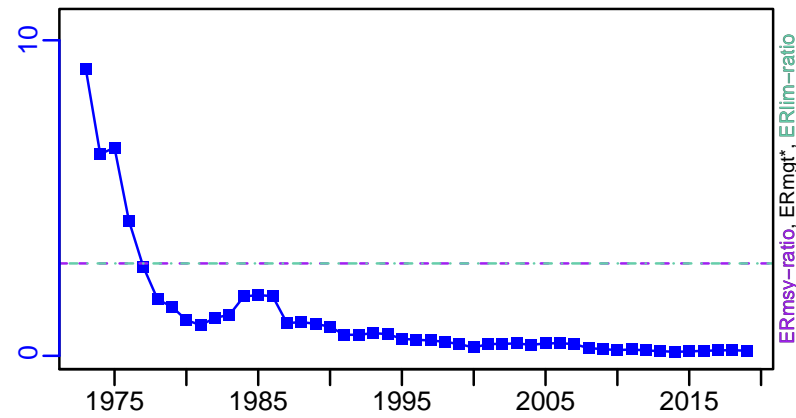
TN-E00 (1955–2009–CHING)



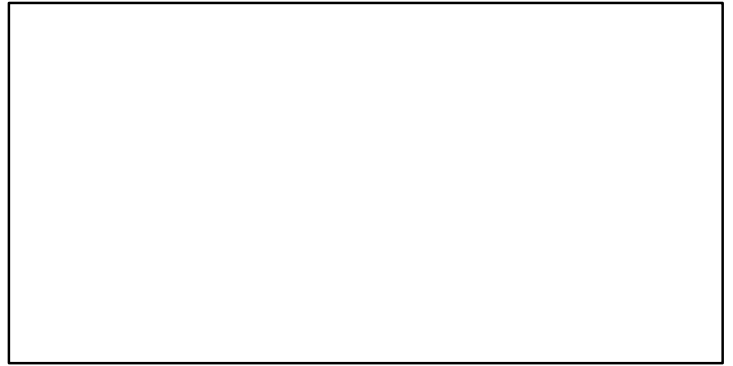
F*



ER-ratio (1973–2019–SISIMP2021–2)

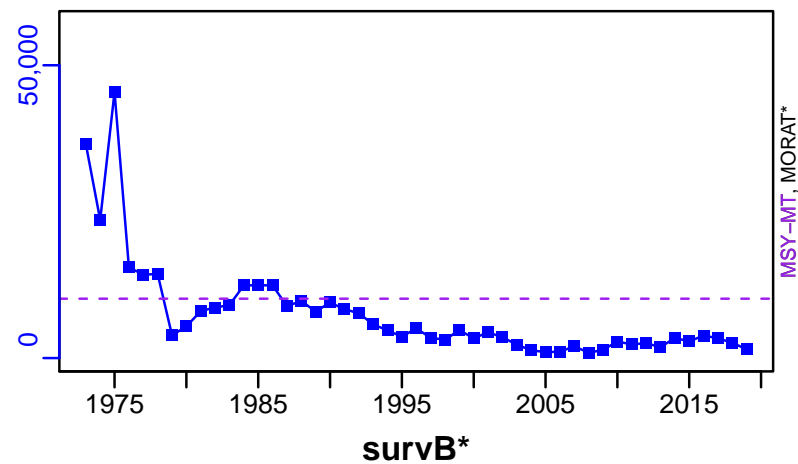


Recruits*

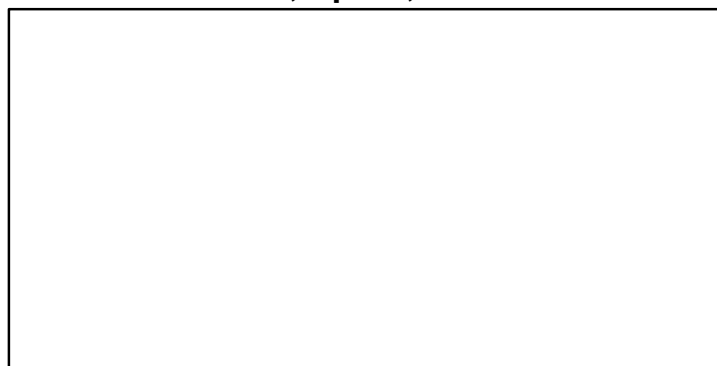


Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

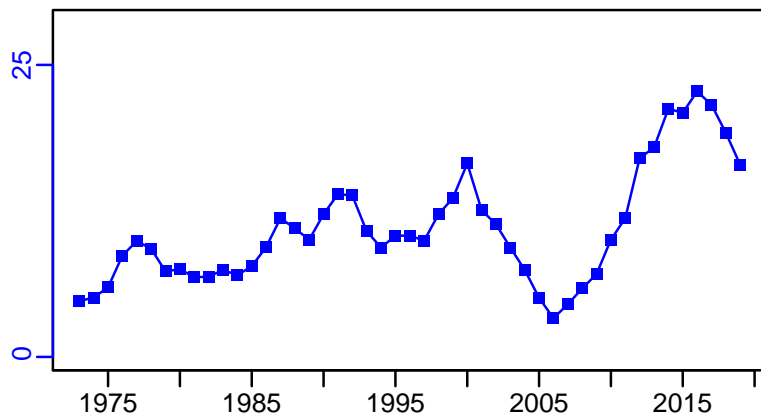
TC-MT, TL*, RecC* (1973-2019-SISIMP2021-2)



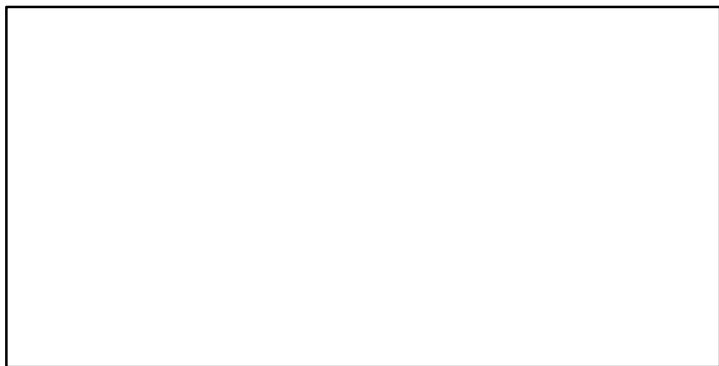
TAC*, Cpair*, Cadv*



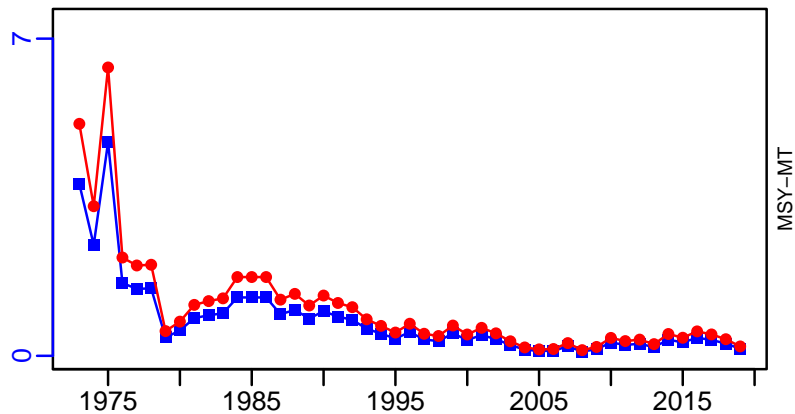
CPUE-index (1973-2019-SISIMP2021-2)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1973-2019-SISIMP2021-2)



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

Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKESGBMATL-1973-2019-SISIMP2021-2
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2013, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	825
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	34.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	28,200
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	34.2

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2009	1,690,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	1.91	-	-
TC	TC-MT	2019	5400		
TL	TL-MT	2009	6640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.056		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

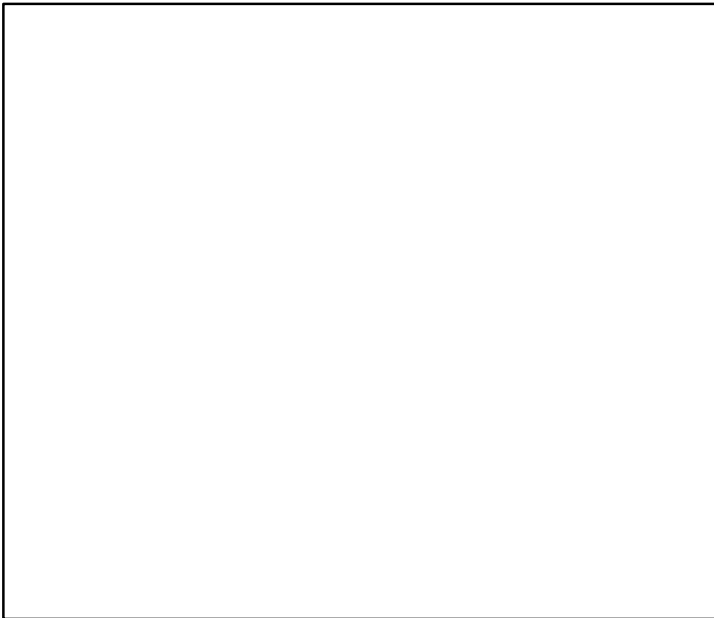
Kobe MSY*



Kobe MGT*



Spawner Recruit*



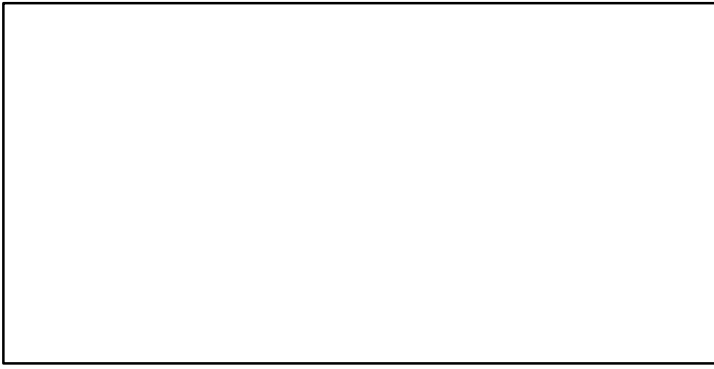
Production*



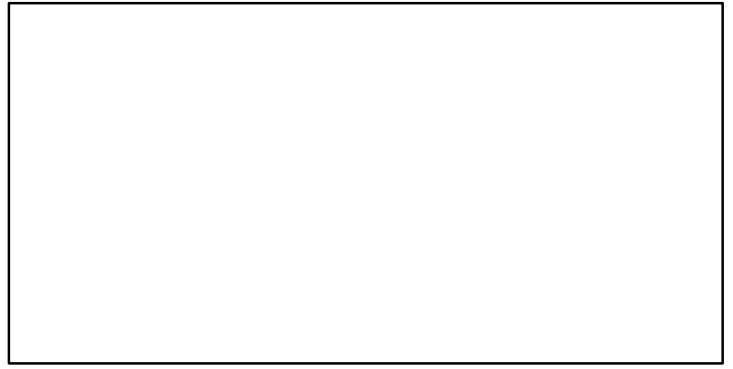
◆ Start Year	◆ End Year	* No Data
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Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

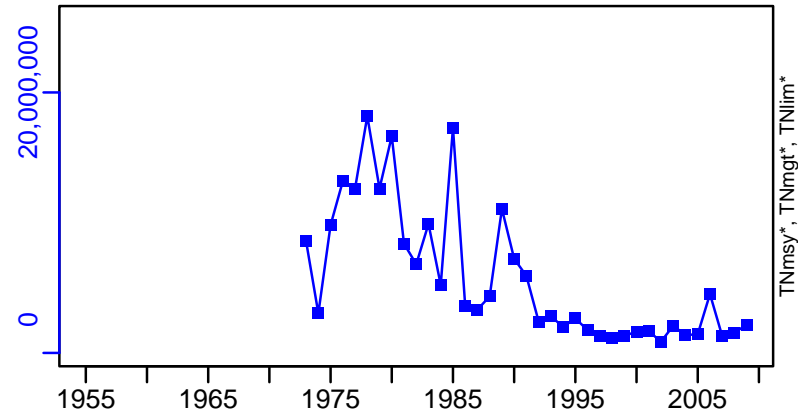
TB*



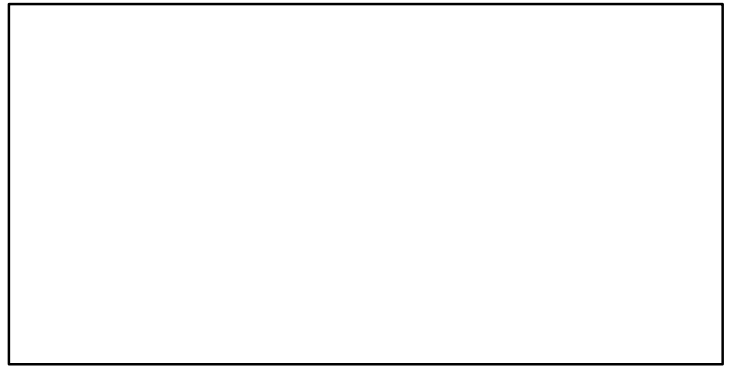
SSB*



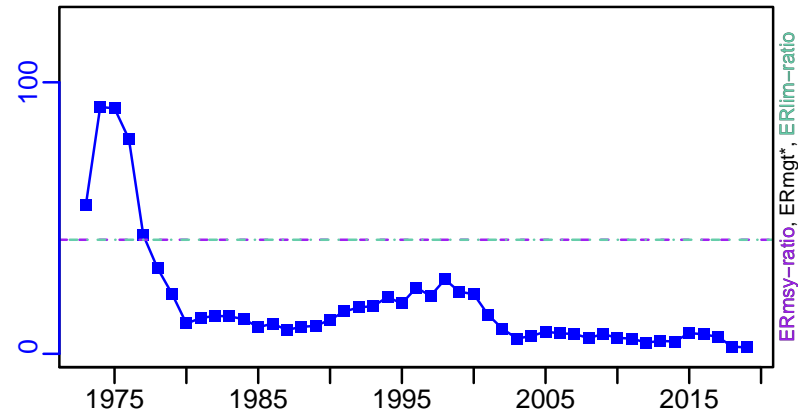
TN-E00 (1955–2009–CHING)



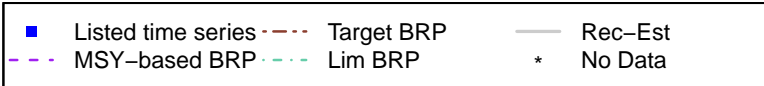
F*



ER-ratio (1973–2019–SISIMP2021–2)



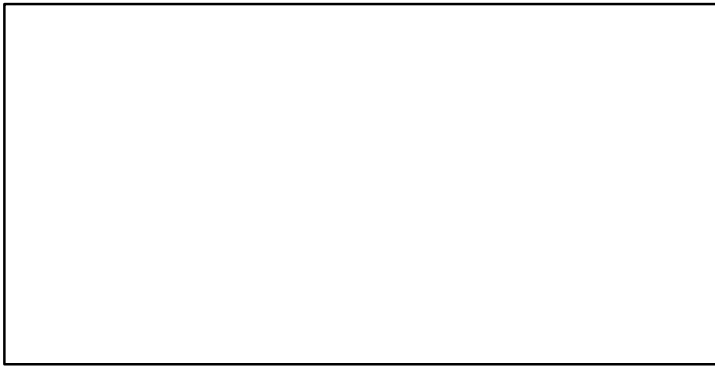
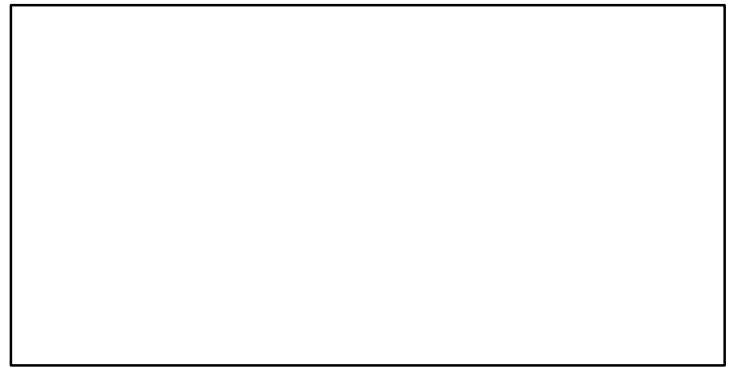
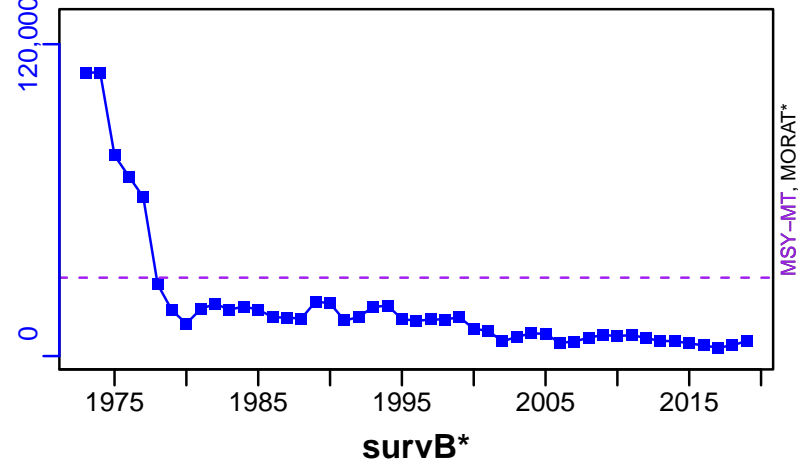
Recruits*



Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

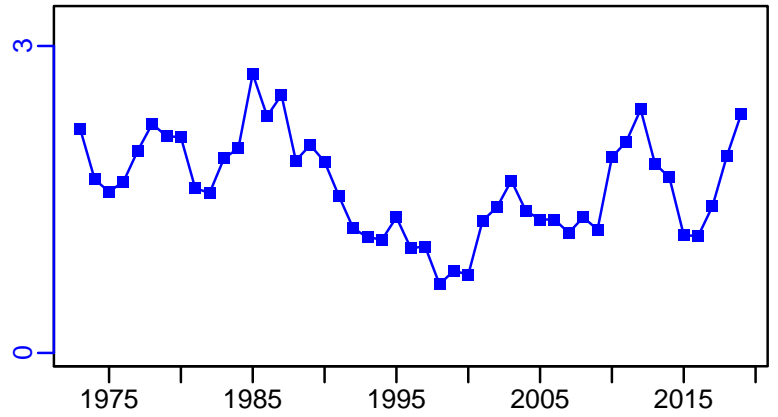
TC-MT, TL*, RecC* (1973-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

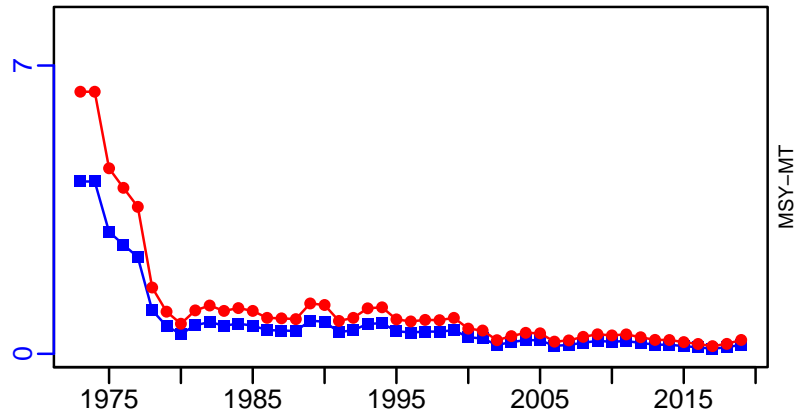


EFFORT*

CPUE-index (1973-2019-SISIMP2021-2)



TC-MT/MSY-MT, CdivMEANC-ratio, (1973-2019-SISIMP2021-2)



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

Southern hake Central-Southern Chile [SOUTHHAKECH]

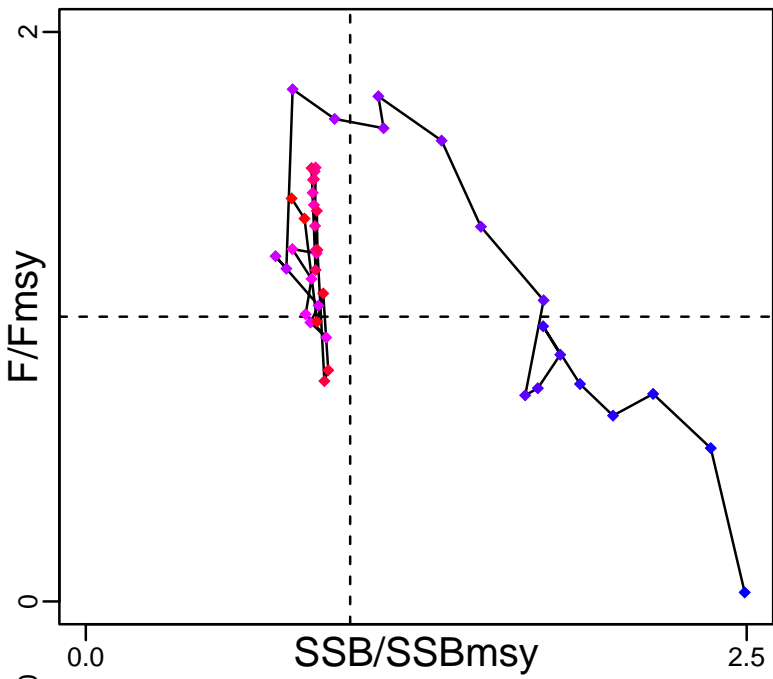
Metadata	
Scientific Name	Merluccius australis
Current Assess ID	IFOPCH-SOUTHHAKECH-1977-2019-Quiroz
Area	Central-Southern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2011, 2015, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2019	184,844
Fmsy	Fmsy-pr-1/yr	2019	0.257
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	172,400
Fmgt	Fmgt-1/yr	2015	0.313
ERmgt	-	-	-
TB0	TB0-MT	2015	940,000
SSB0	SSB0-MT	2019	462,111
MSY	-	-	-
M	M-1/yr	2015	0.21
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

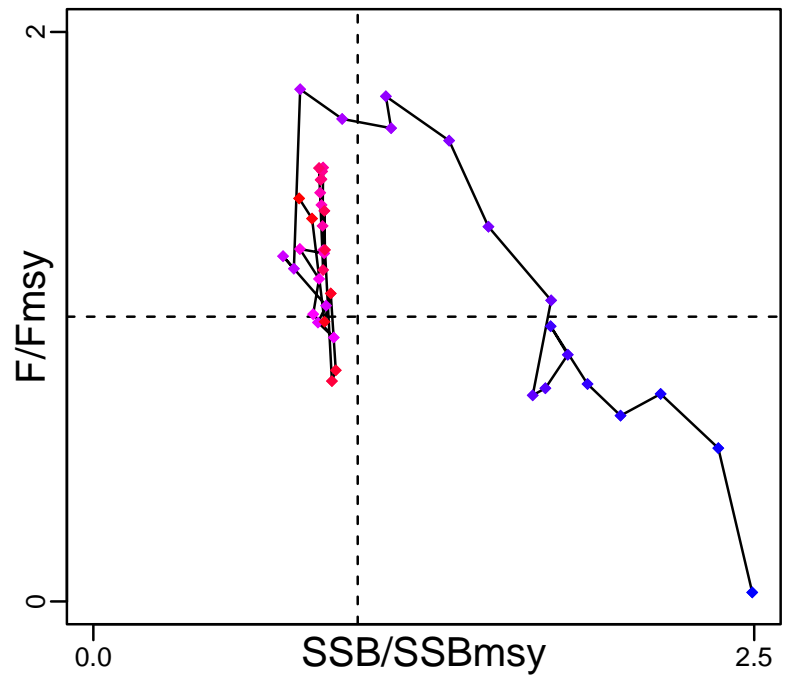
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	548,813	-	-
SSB	SSB-MT	2019	143,892	Both	-
TN	-	-	-	-	-
R	R-E00	2019	115,428,000	Both	-
F	F-1/yr	2019	0.364	Both	-
ER	ER-ratio	2019	1.415	-	-
TC	TC-MT	2019	28,214		
TL	TL-MT	2015	16,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	0.778		
F/Fmsy	FdivFmsy-dimensionless	2019	1.415		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.539		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.086		
ER/ERmgt	-	-	-		

Southern hake Central–Southern Chile [SOUTHHAKECH]

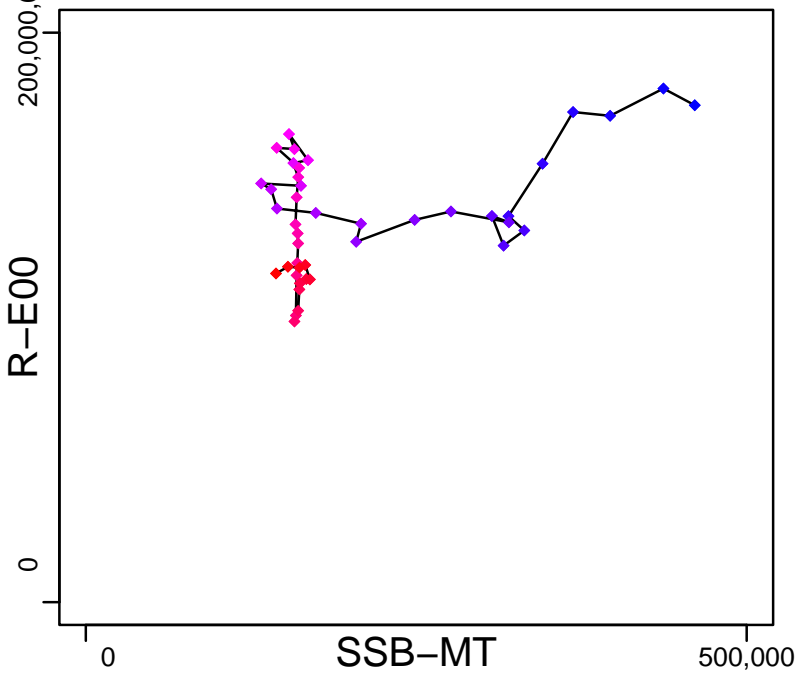
Kobe MSYpref (1977–2019–Quiroz)



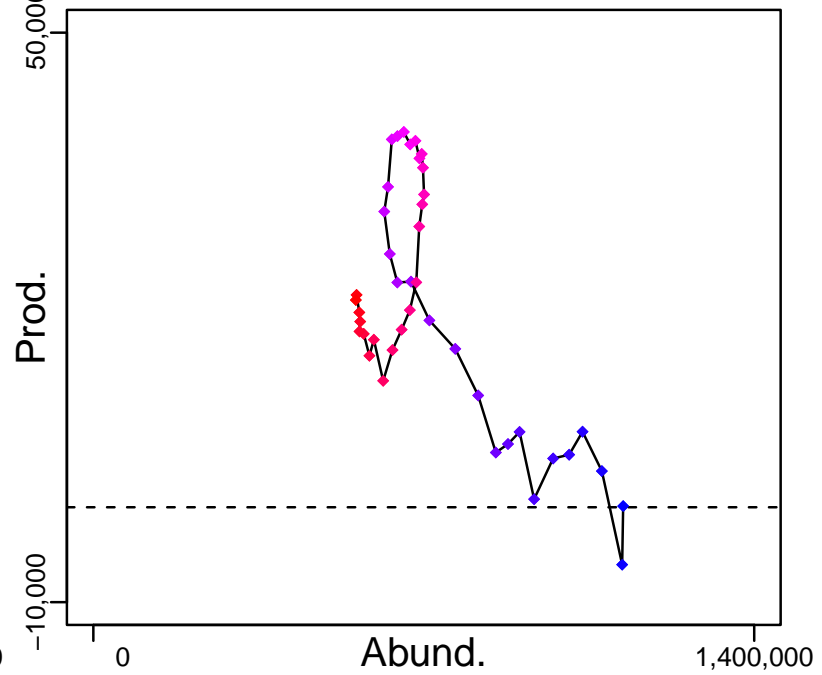
Kobe MGTpref (1977–2019–Quiroz)



Spawner Recruit (1977–2019–Quiroz)



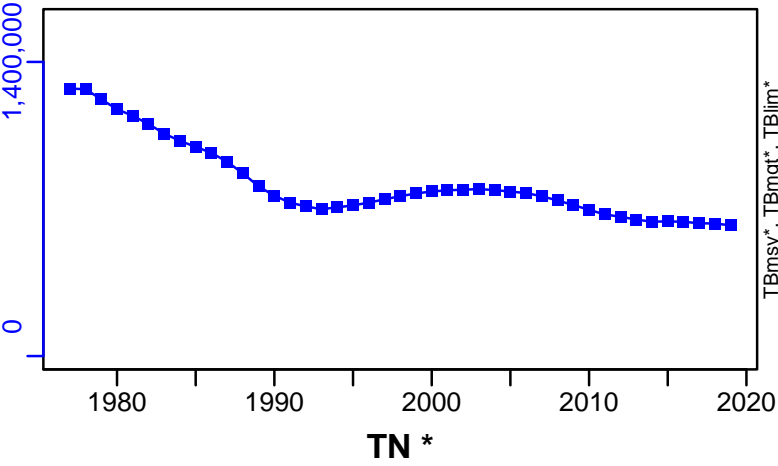
Production (1977–2019–Quiroz)



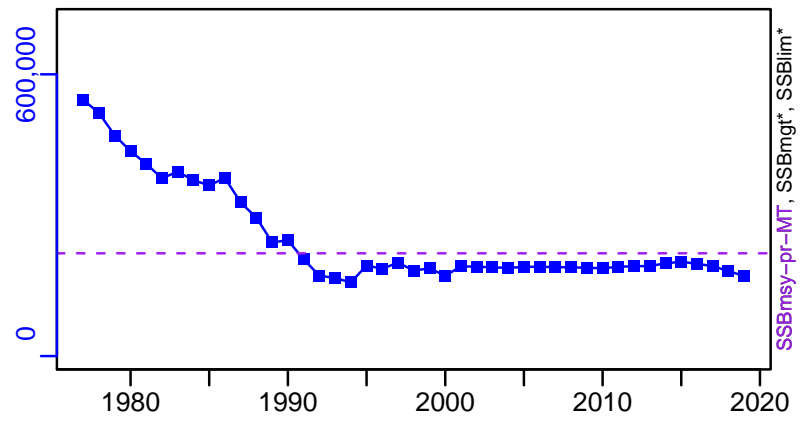
◆ Start Year ◆ End Year * No Data

Southern hake Central–Southern Chile [SOUTHHAKECH]

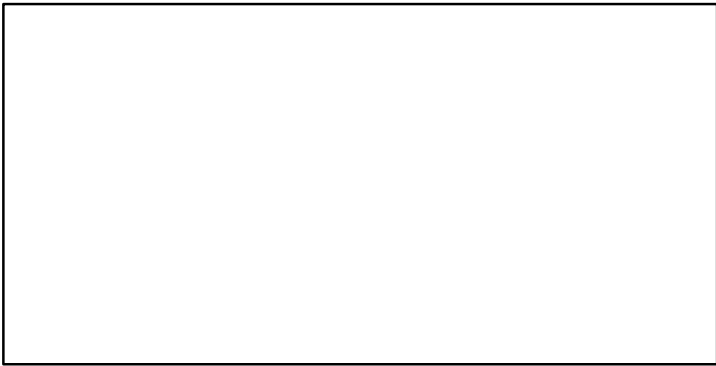
TB–MT (1977–2019–Quiroz)



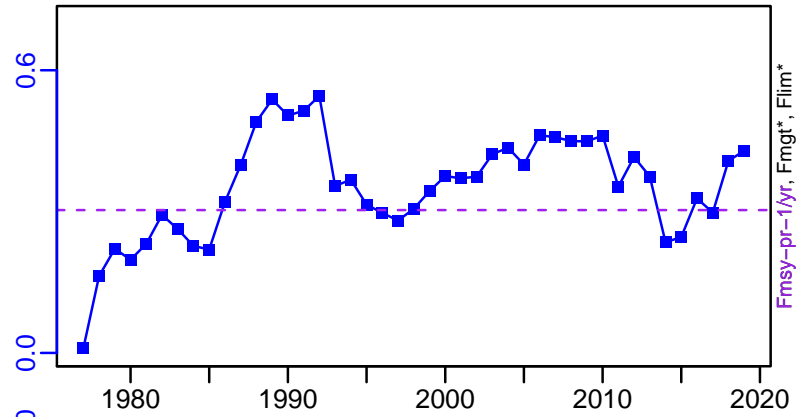
SSB–MT (1977–2019–Quiroz)



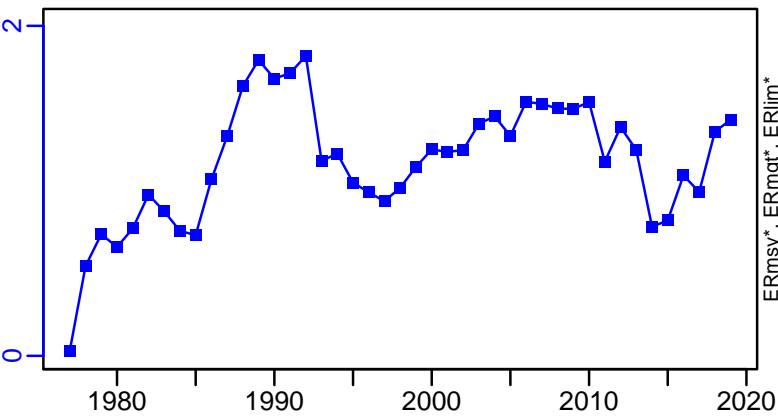
TN *



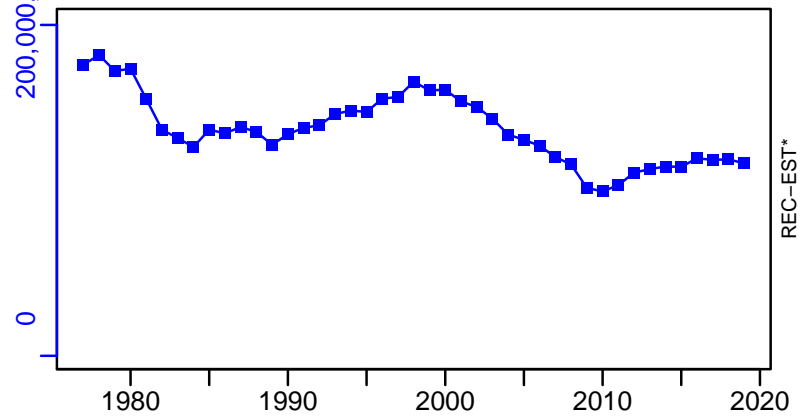
F–1/yr (1977–2019–Quiroz)



ER–ratio (1977–2019–Quiroz)

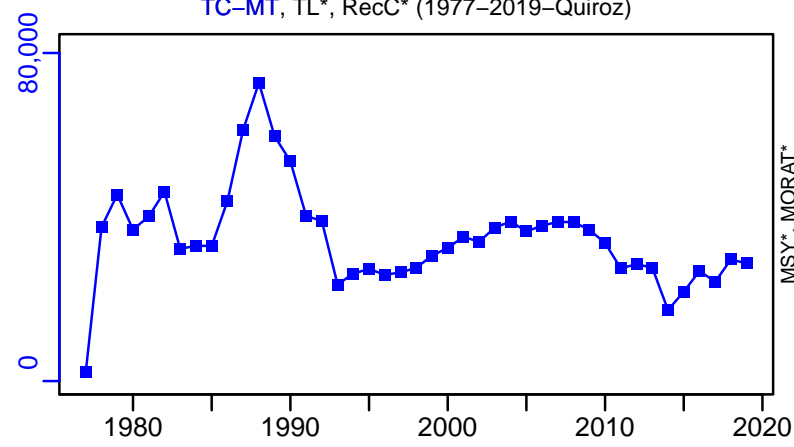


R–E00 (1977–2019–Quiroz)

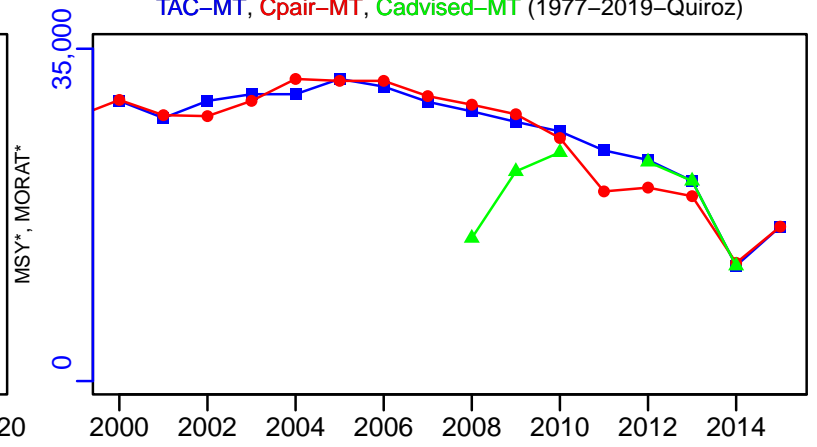


Southern hake Central–Southern Chile [SOUTHHAKECH]

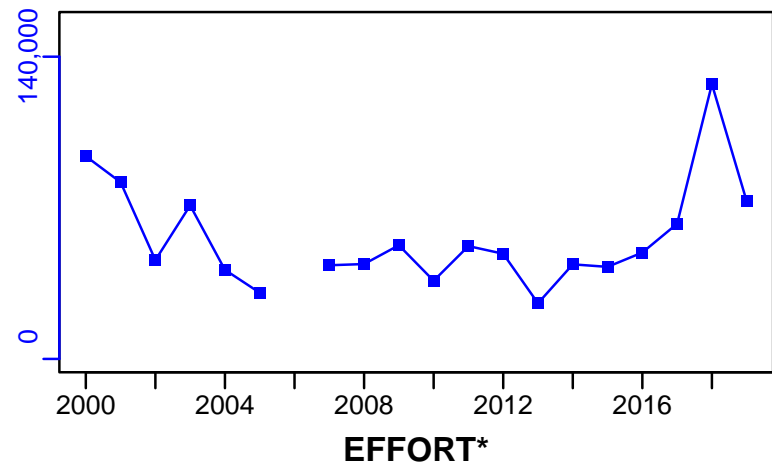
TC–MT, TL*, RecC* (1977–2019–Quiroz)



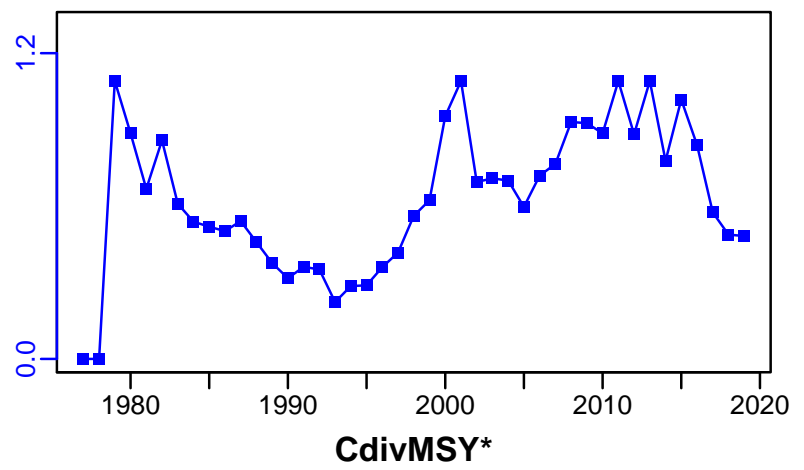
TAC–MT, Cpair–MT, Cadvised–MT (1977–2019–Quiroz)



survB_absolute–MT (1977–2019–Quiroz)

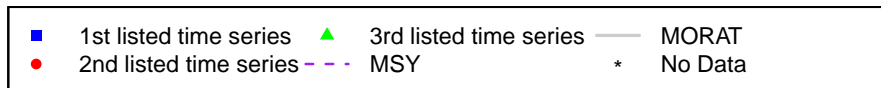


CPUE–1–index (1977–2019–Quiroz)



EFFORT*

CdivMSY*



Southern hake Chatham Rise [SOUTHHAKECR]

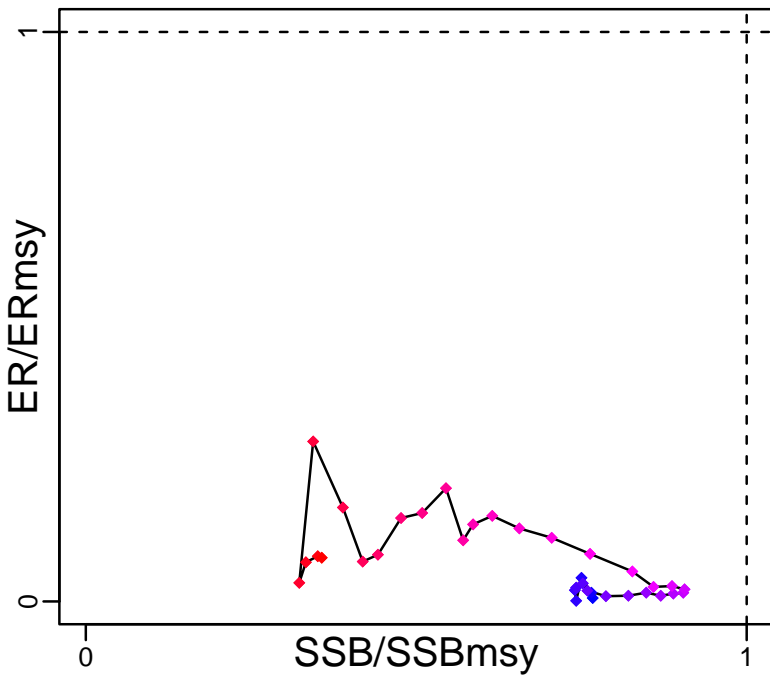
Metadata	
Scientific Name	Merluccius australis
Current Assess ID	NIWA-SOUTHHAKECR-1974-2012-FU
Area	Chatham Rise
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2012, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	10,626
SSBmsy	SSBmsy-MT	2012	19,938
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2012	0.39
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	19,938
Fmgt	-	-	-
ERMgt	-	-	-
TB0	TB0-MT	2010	88,920
SSB0	SSB0-MT	2012	49,845
MSY	MSY-MT	2012	4144
M	M-1/yr	2012	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

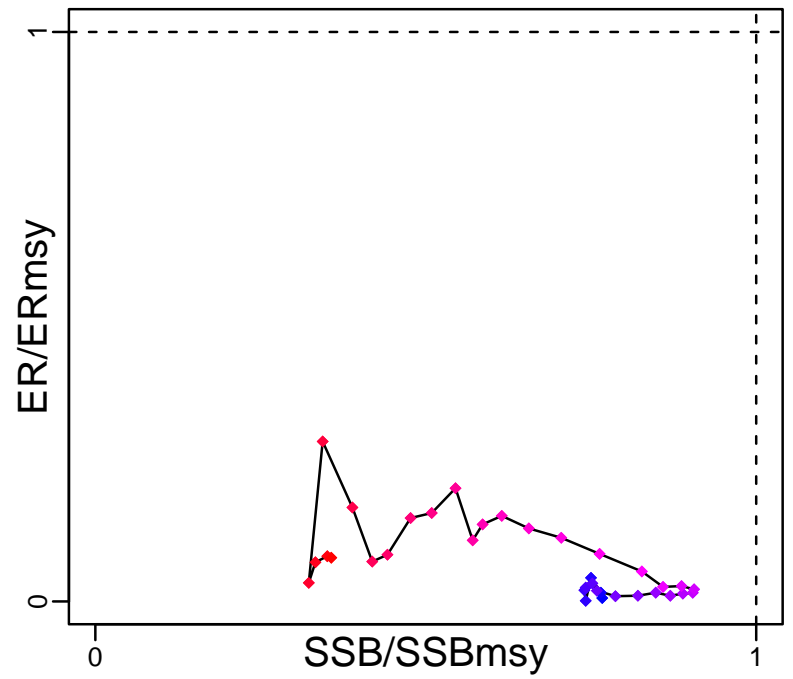
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	24,600	-	1 to 30
TN	-	-	-	-	-
R	R-E00	2012	4,350,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.026	-	-
TC	TC-MT	2012	950		
TL	TL-MT	2012	161		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.234		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.077		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.234		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Southern hake Chatham Rise [SOUTHHAKECR]

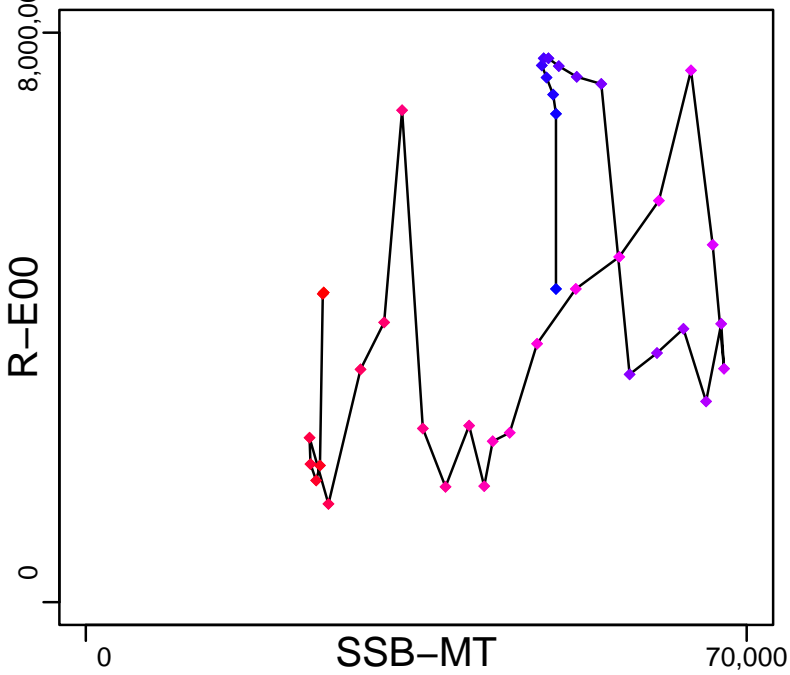
Kobe MSYpref (1975–2010–CHING)



Kobe MGTpref (1975–2010–CHING)



Spawner Recruit (1974–2012–FU)



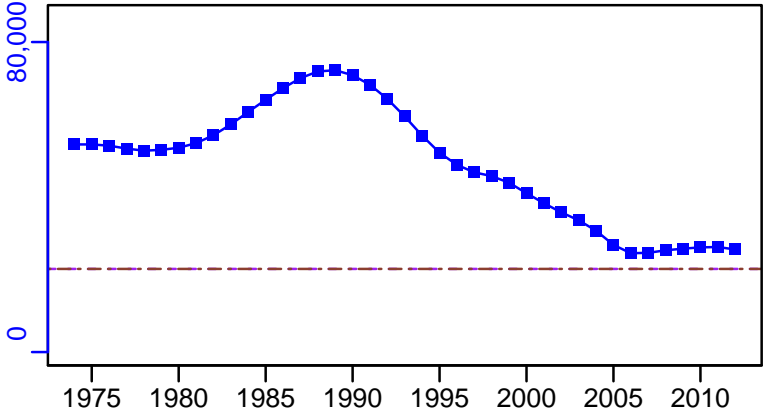
◆ Start Year ◆ End Year * No Data

Southern hake Chatham Rise [SOUTHHAKECR]

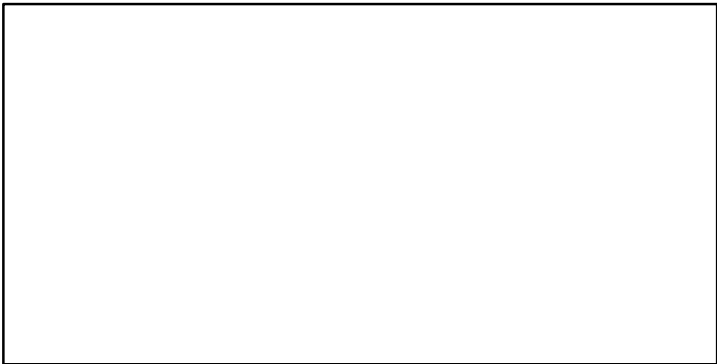
TB*



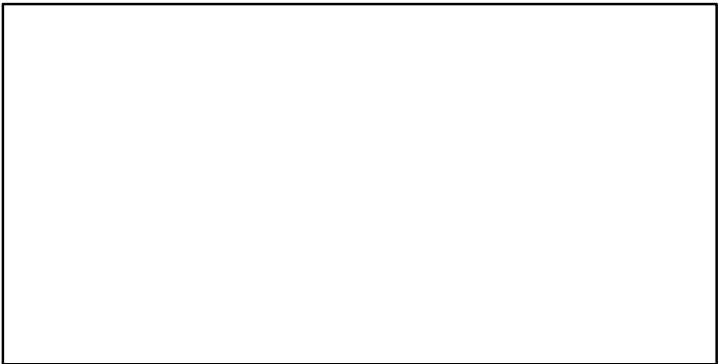
SSB-MT (1974–2012–FU)



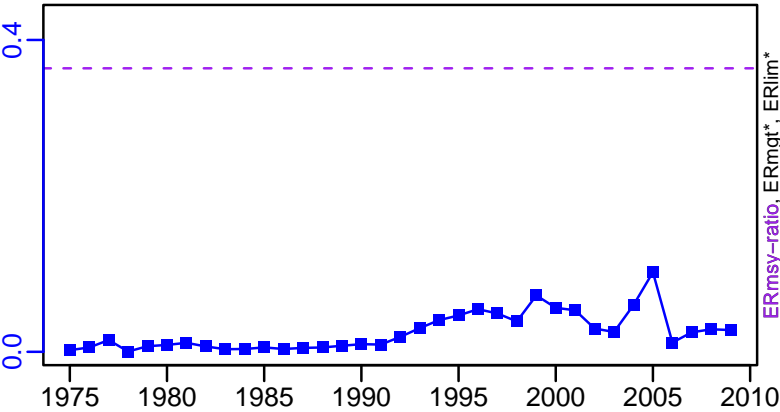
TN *



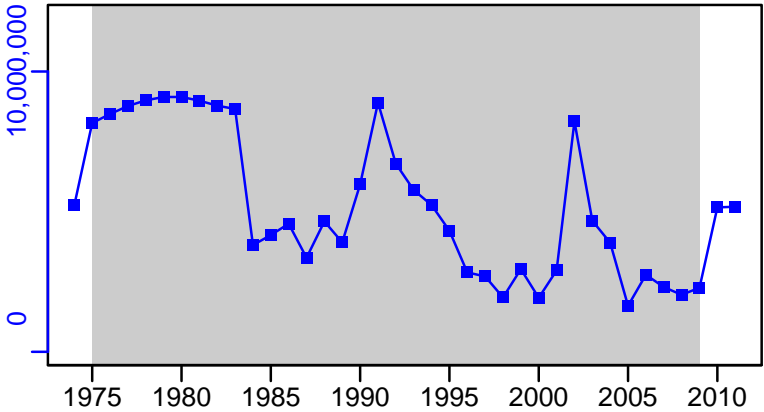
F*



ER-ratio (1975–2010–CHING)

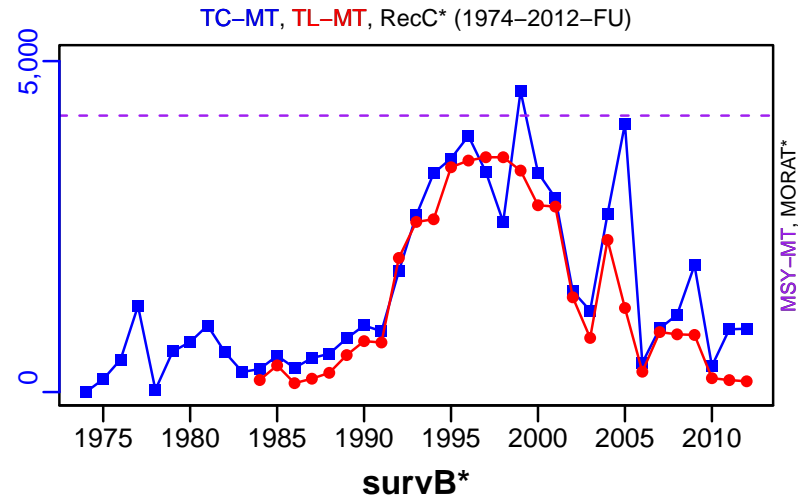


R-E00 (1974–2012–FU)

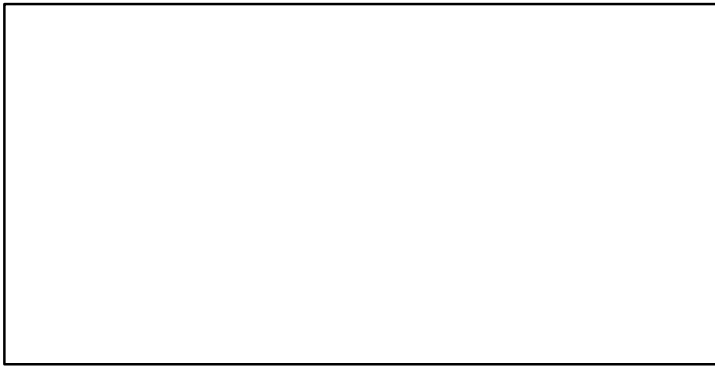
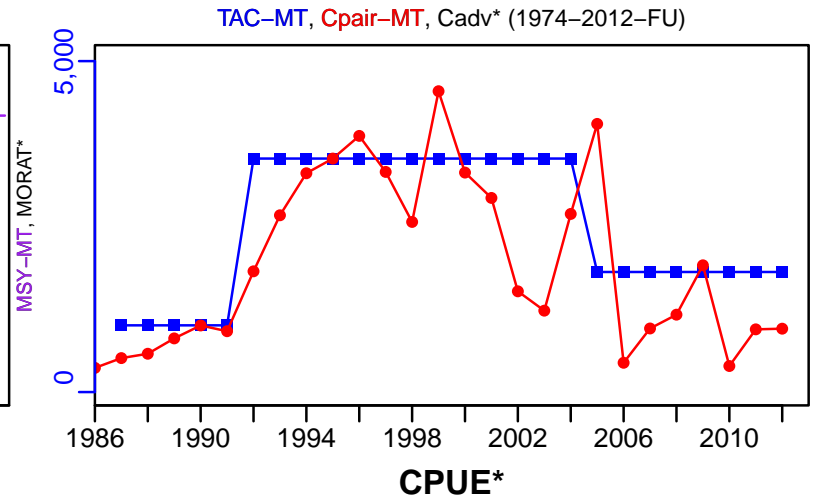


Southern hake Chatham Rise [SOUTHHAKECR]

TC-MT, TL-MT, RecC* (1974–2012–FU)



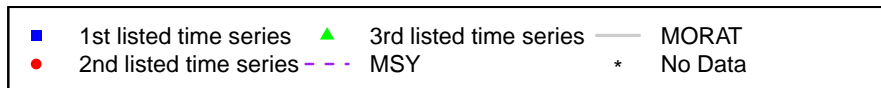
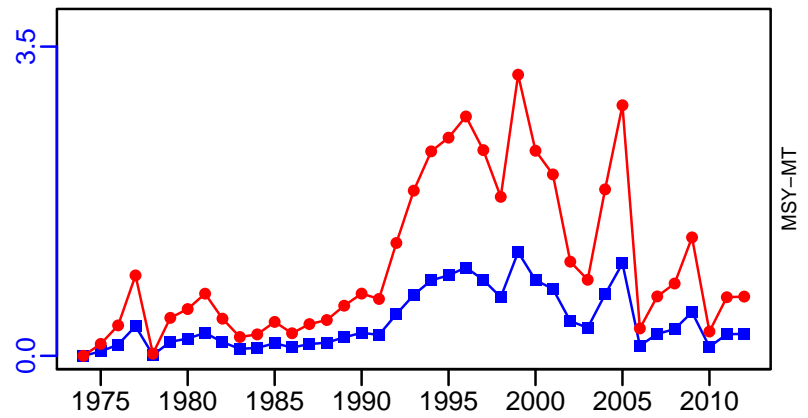
TAC-MT, Cpair-MT, Cadv* (1974–2012–FU)



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TC-MT/MSY-MT, CdivMEANC-ratio, (1974–2012–FU)



Southern hake Sub-Antarctic [SOUTHHAKESA]

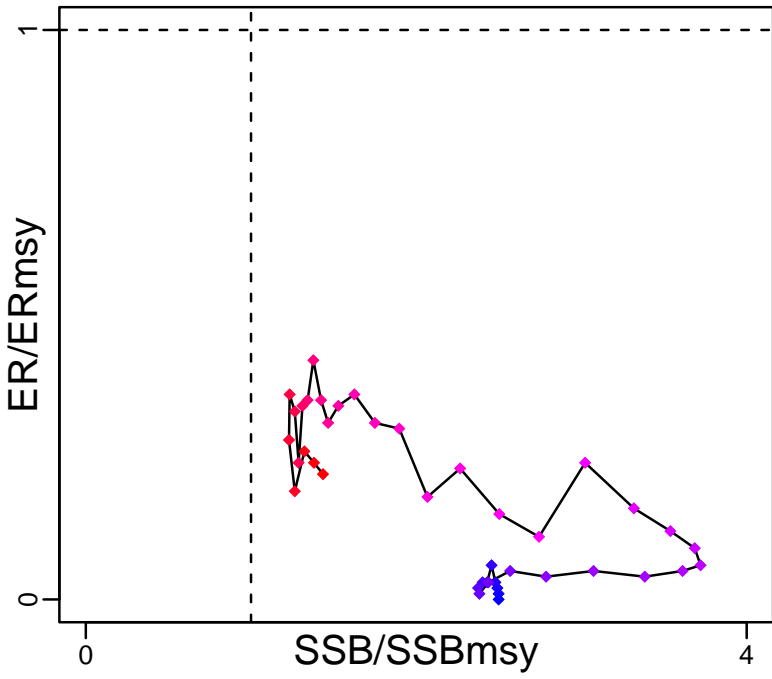
Metadata	
Scientific Name	Merluccius australis
Current Assess ID	NIWA-SOUTHHAKESA-1974-2021-DUNN
Area	Sub-Antarctic
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2011, 2014, 2021, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	20,249
SSBmsy	SSBmsy-MT	2017	23,992
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.214
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	26,910
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2021	60,223
MSY	MSY-MT	2014	4341
M	M-1/yr	2021	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

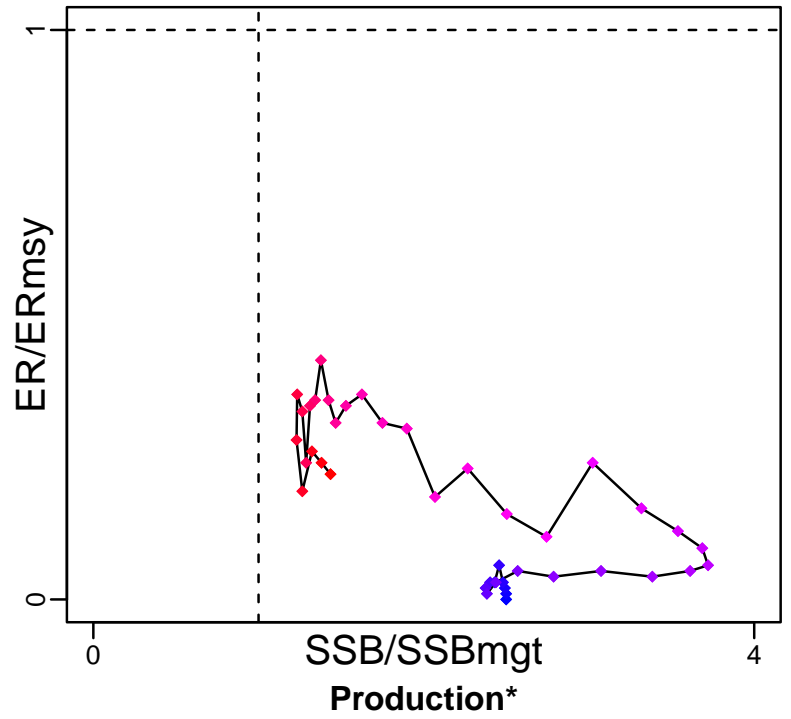
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	36,373	-	-
TN	-	-	-	-	-
R	R-E00	2021	6,512,550	Both	1
F	F-1/yr	2011	0.051	-	-
ER	ER-ratio	2021	0.029	-	-
TC	TC-MT	2021	1355		
TL	TL-MT	2021	1355		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.311		
F/Fmsy	FdivFmsy-dimensionless	2011	0.108		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.352		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Southern hake Sub-Antarctic [SOUTHHAKEsa]

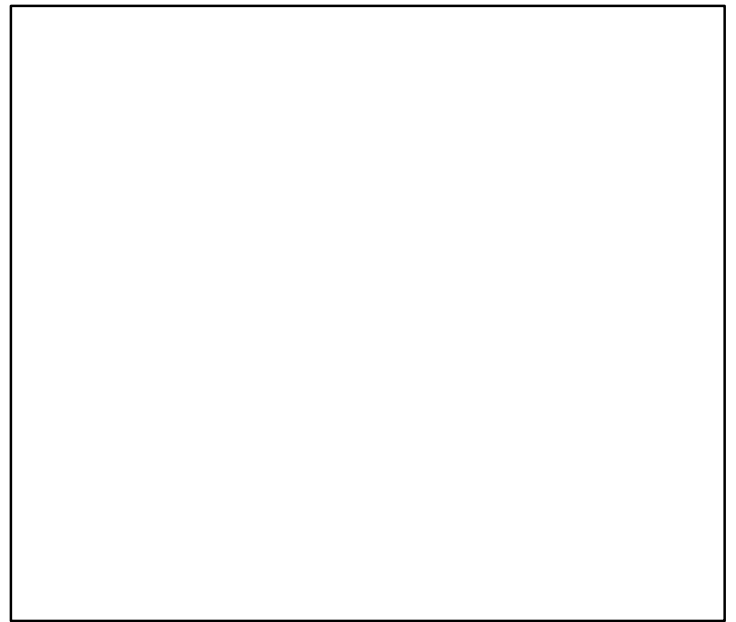
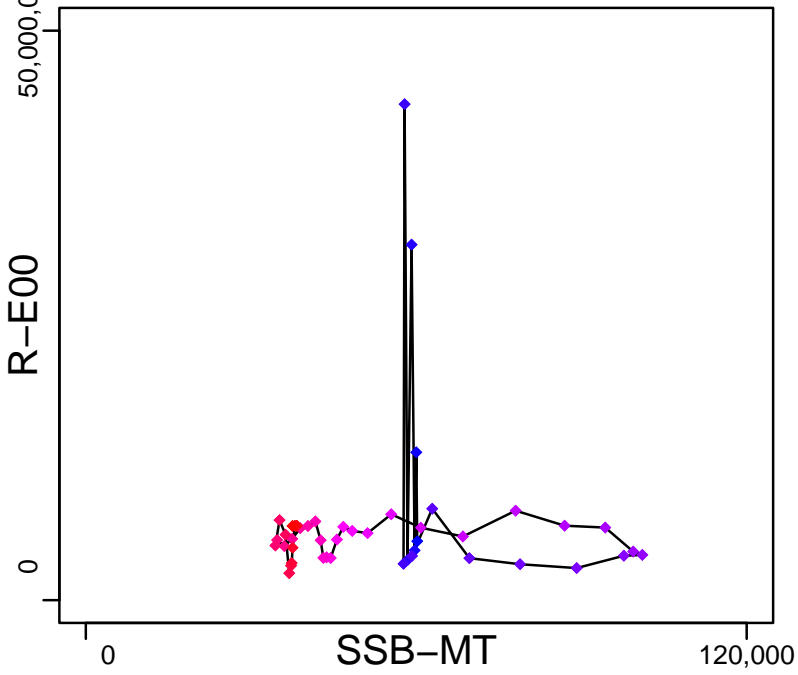
Kobe MSYpref (1974–2014–FU)



Kobe MGTpref (1974–2014–FU)



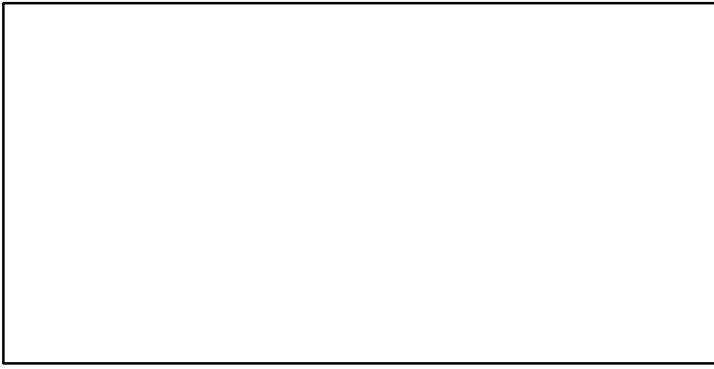
Spawner Recruit (1974–2021–DUNN)



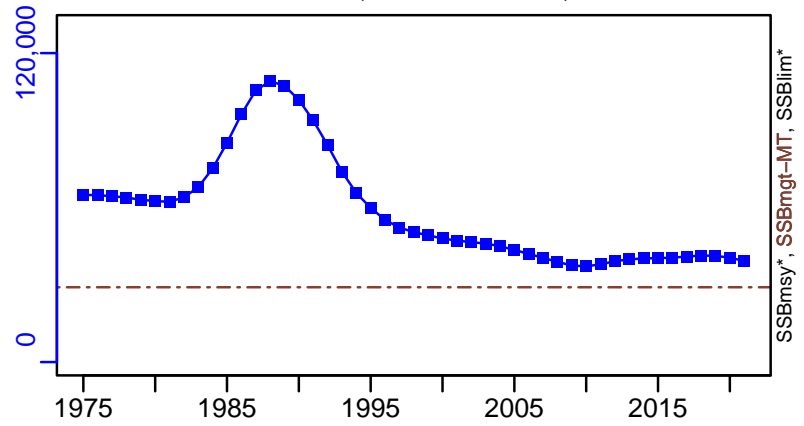
◆ Start Year ◆ End Year * No Data

Southern hake Sub-Antarctic [SOUTHHAKEsa]

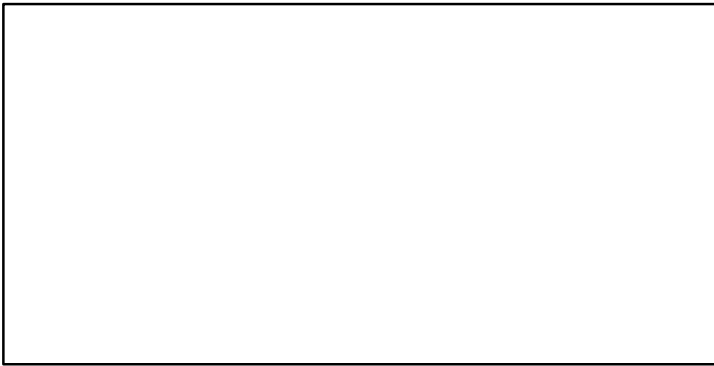
TB*



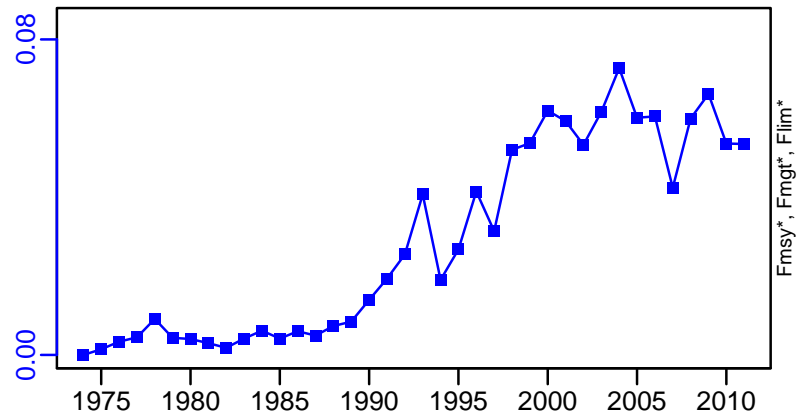
SSB-MT (1974-2021-DUNN)



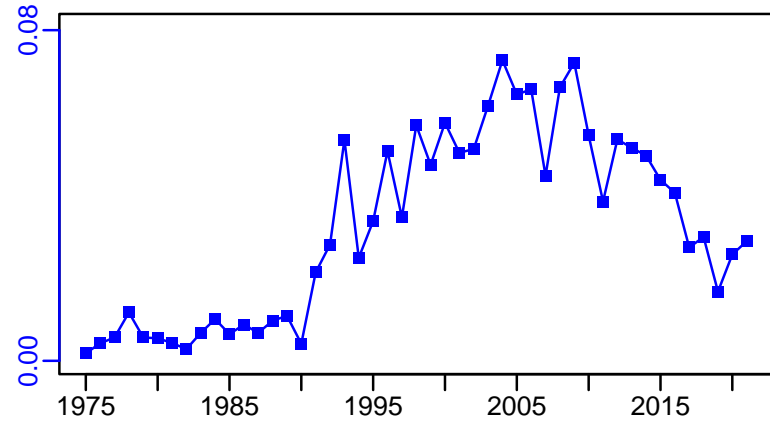
TN *



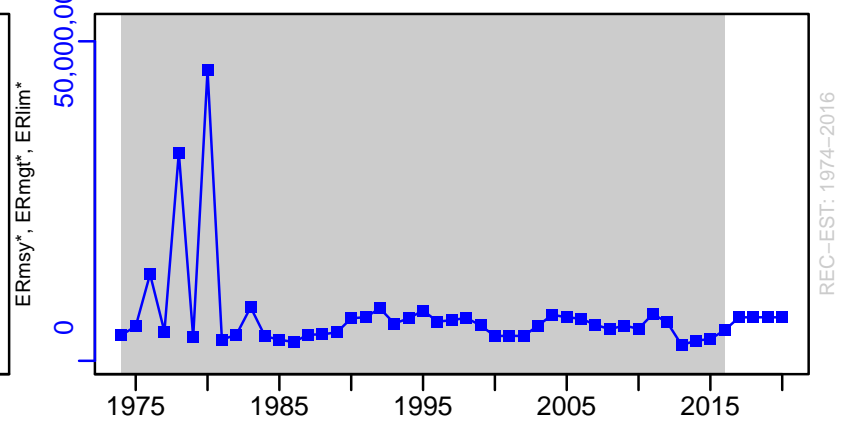
F-1/yr (1974-2011-CORDUE)



ER-ratio (1974-2021-DUNN)

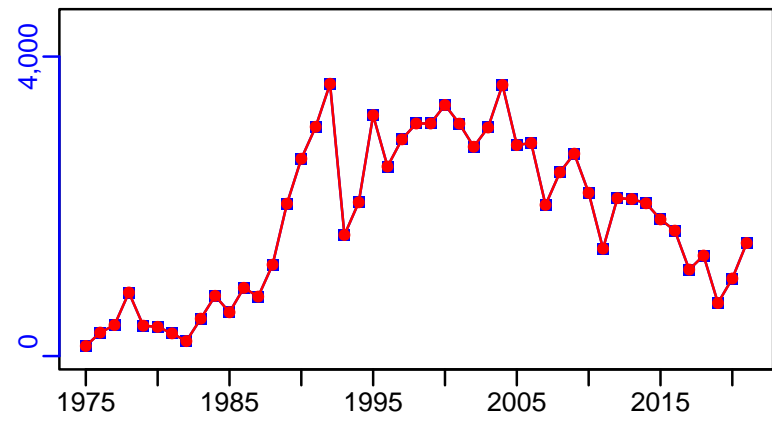


R-E00 (1974-2021-DUNN)

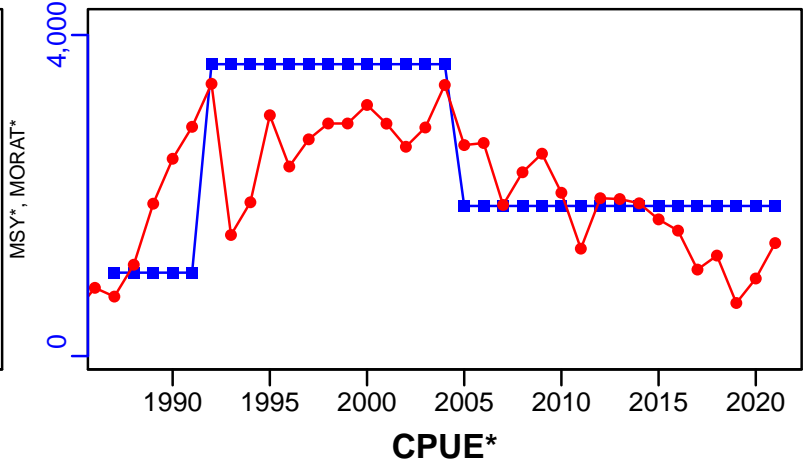


Southern hake Sub-Antarctic [SOUTHHAKESA]

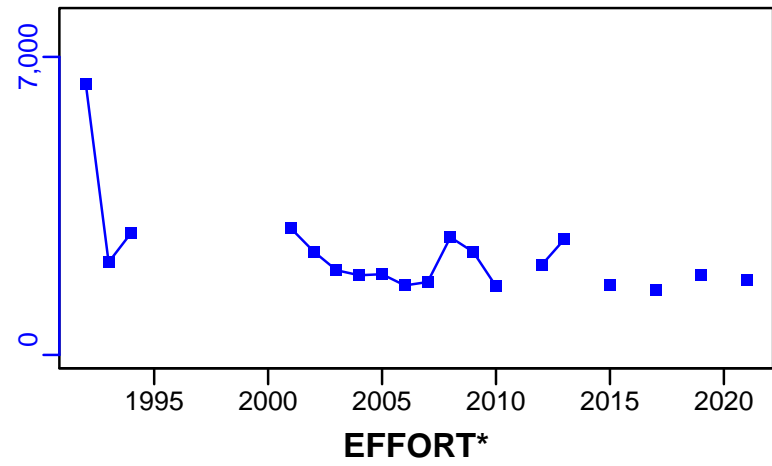
TC-MT, TL-MT, RecC* (1974–2021–DUNN)



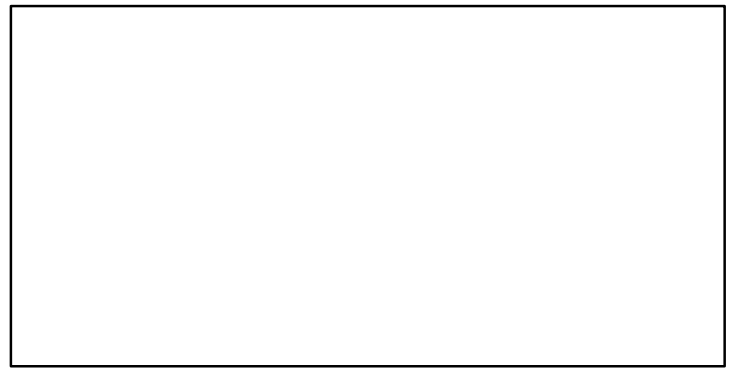
TAC-MT, Cpair-MT, Cadv* (1974–2021–DUNN)



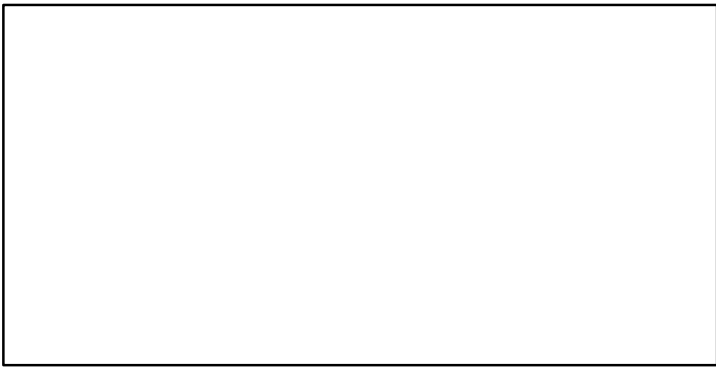
survB_absolute-MT (1974–2021–DUNN)



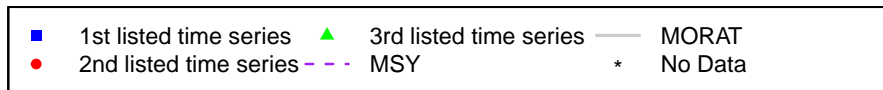
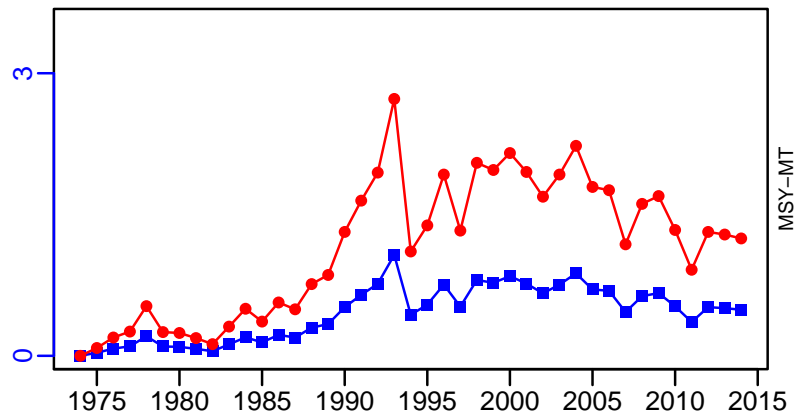
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1974–2014–FU)



Southern hake West Coast South Island [SOUTHHAKEWCSI]

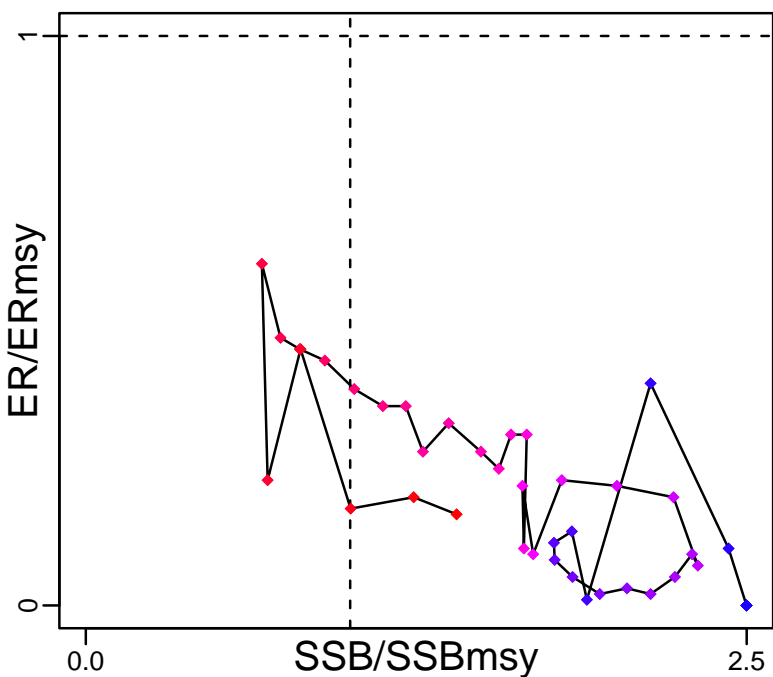
Metadata	
Scientific Name	Merluccius australis
Current Assess ID	NIWA-SOUTHHAKEWCSI-1974-2022-DUNN
Area	West Coast South Island
Management Authority	Ministry of Fisheries, New Zealand national management
Assessor	National Institute of Water and Atmospheric Research
Asmts in RAM	2012, 2022, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	11,376
SSBmsy	SSBmsy-MT	2019	28,014
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2012	0.71
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2022	19,519
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2022	78,202
MSY	MSY-MT	2012	8077
M	M-1/yr	2022	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

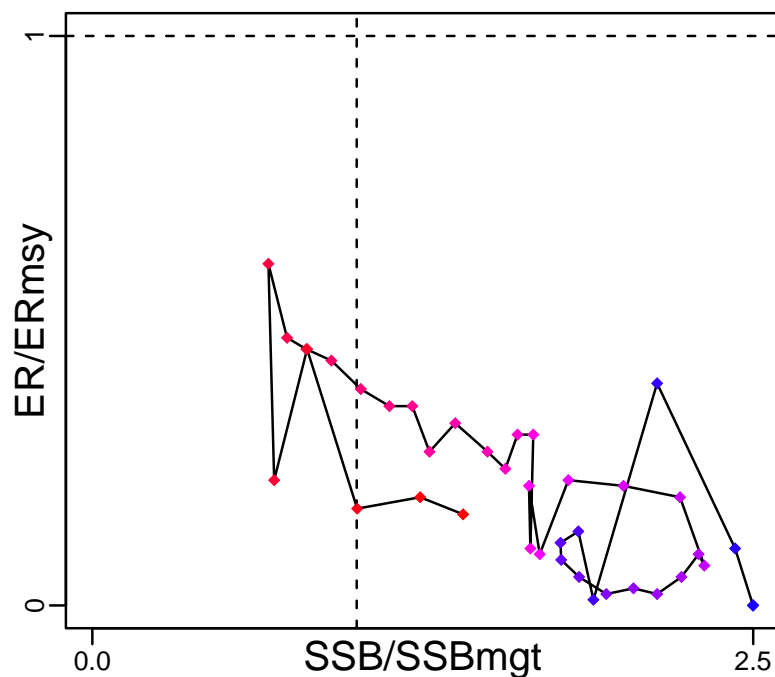
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2022	49,373	-	1+
SSB	SSB-MT	2022	28,314	Both	-
TN	TN-E00	2022	24,183,100	-	1+
R	R-E00	2022	6,390,470	Both	1
F	-	-	-	-	-
ER	ER-ratio	2022	0.105	-	-
TC	TC-MT	2022	1367		
TL	TL-MT	2022	1367		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.422		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.16		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2022	1.451		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Southern hake West Coast South Island [SOUTHHAKEWCSI]

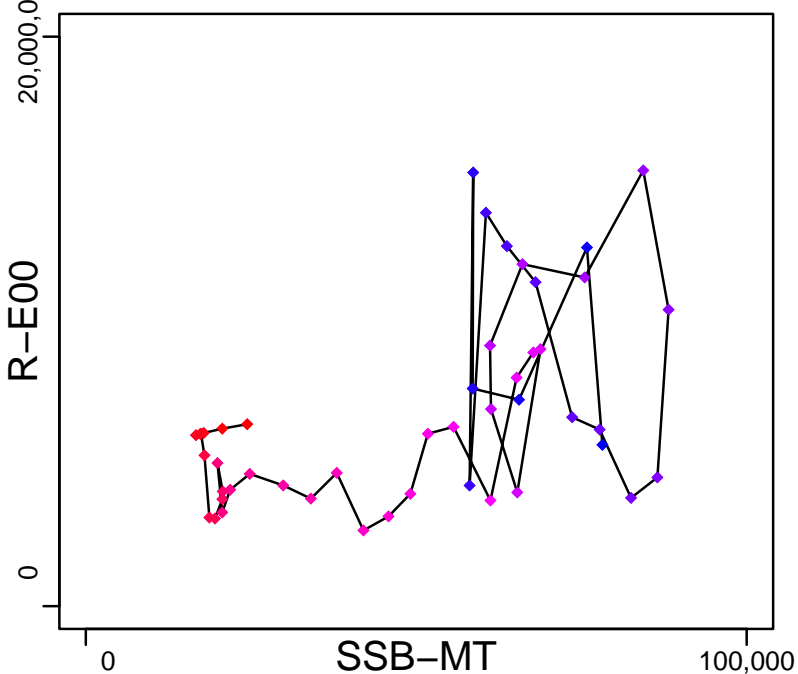
Kobe MSYpref (1973–2012–FU)



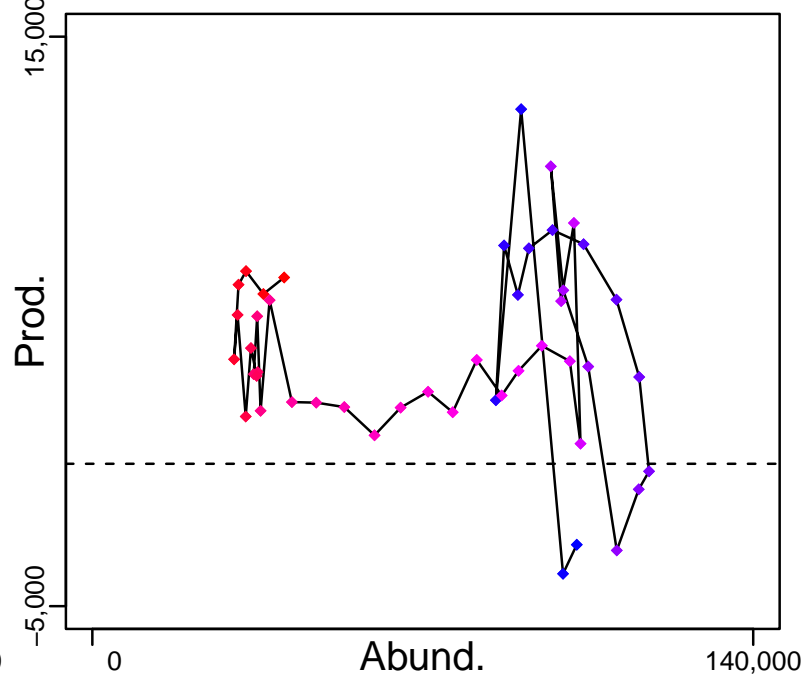
Kobe MGTpref (1973–2012–FU)



Spawner Recruit (1974–2022–DUNN)



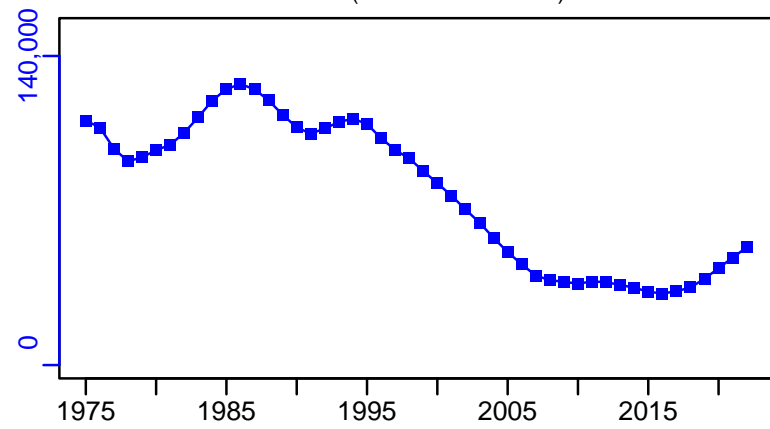
Production (1974–2022–DUNN)



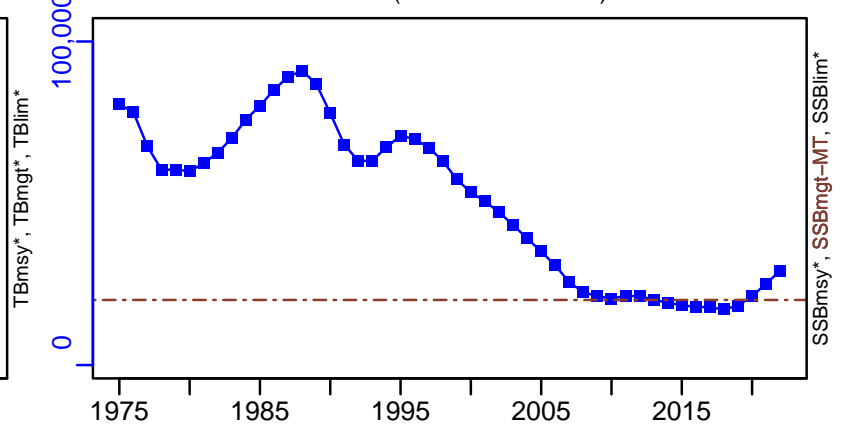
◆ Start Year ◆ End Year * No Data

Southern hake West Coast South Island [SOUTHHAKEWCSI]

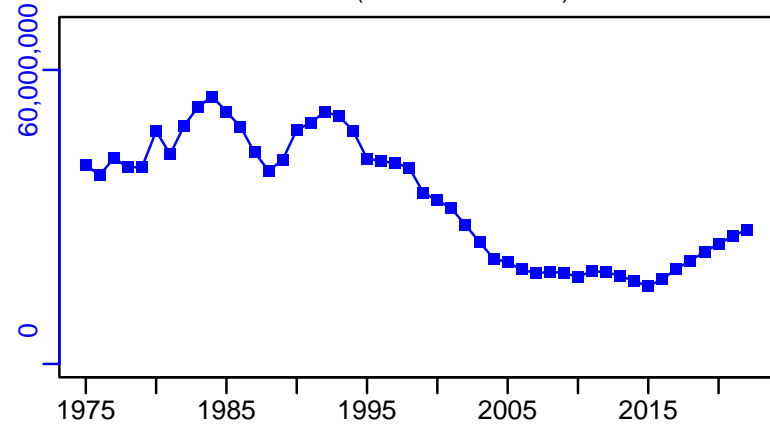
TB-MT (1974–2022–DUNN)



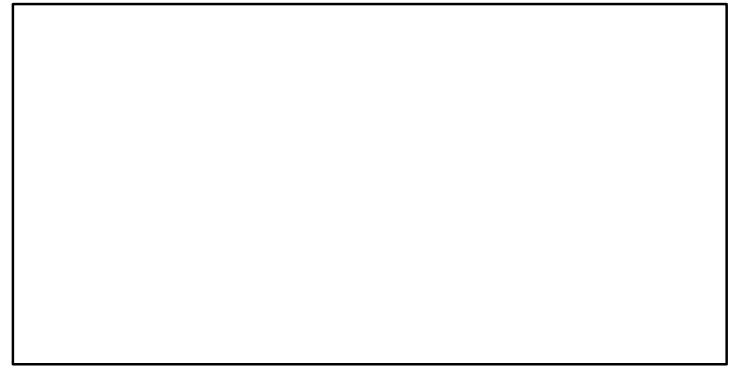
SSB-MT (1974–2022–DUNN)



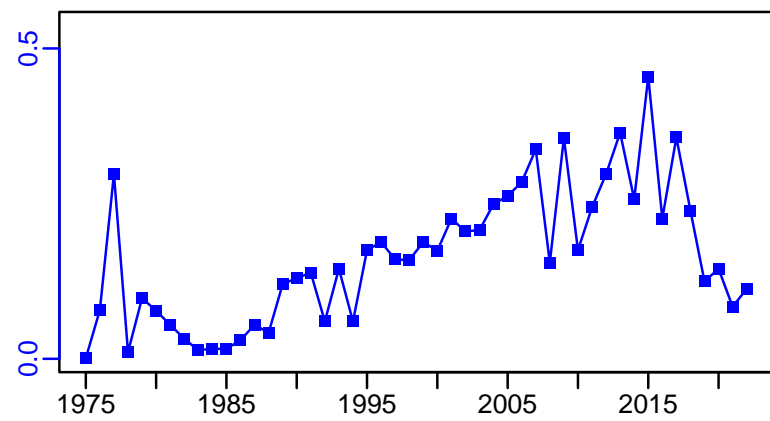
TN-E00 (1974–2022–DUNN)



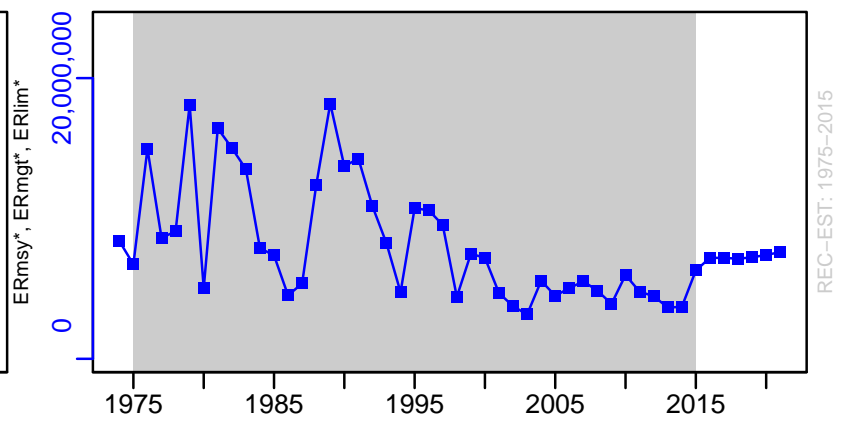
F*



ER-ratio (1974–2022–DUNN)

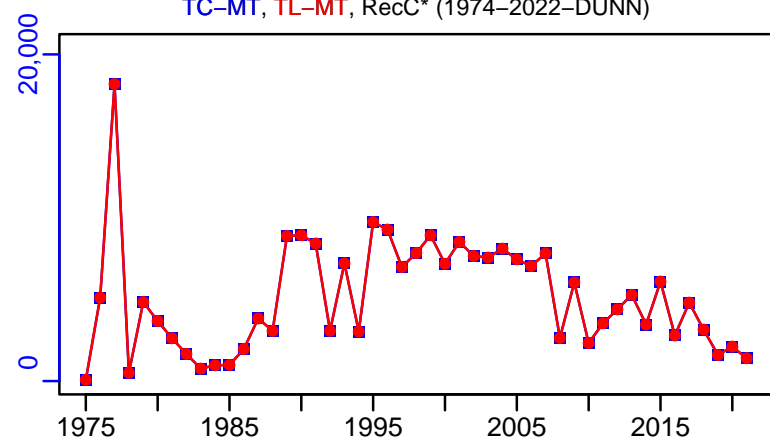


R-E00 (1974–2022–DUNN)

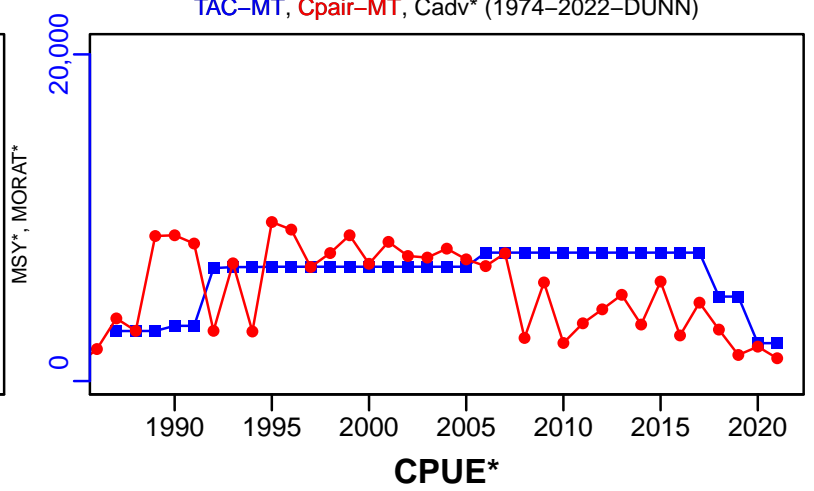


Southern hake West Coast South Island [SOUTHHAKEWCSI]

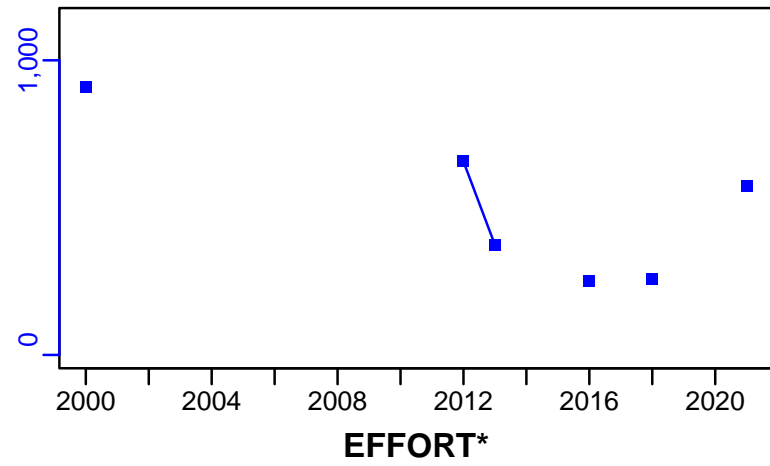
TC-MT, TL-MT, RecC* (1974–2022–DUNN)



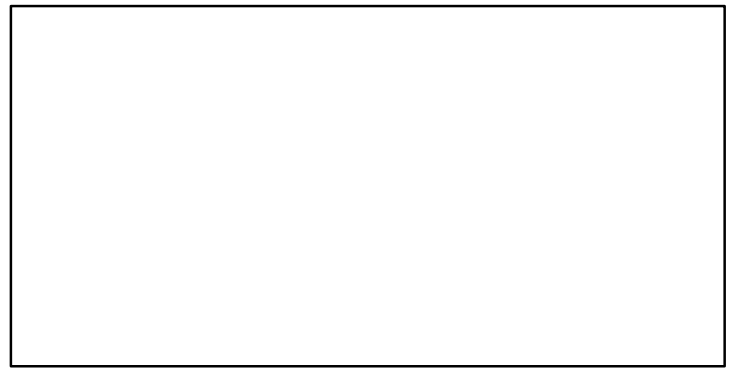
TAC-MT, Cpair-MT, Cadv* (1974–2022–DUNN)



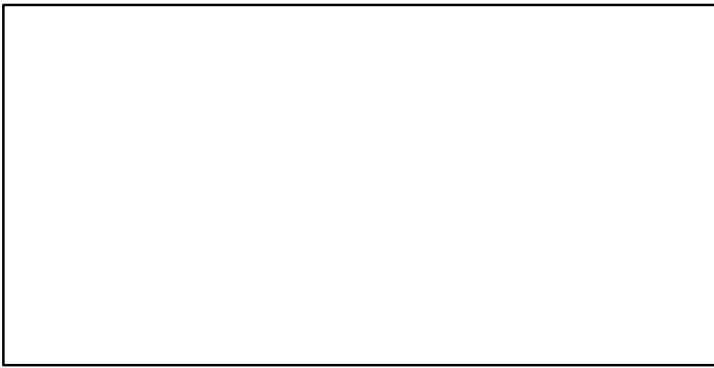
survB_absolute-MT (1974–2022–DUNN)



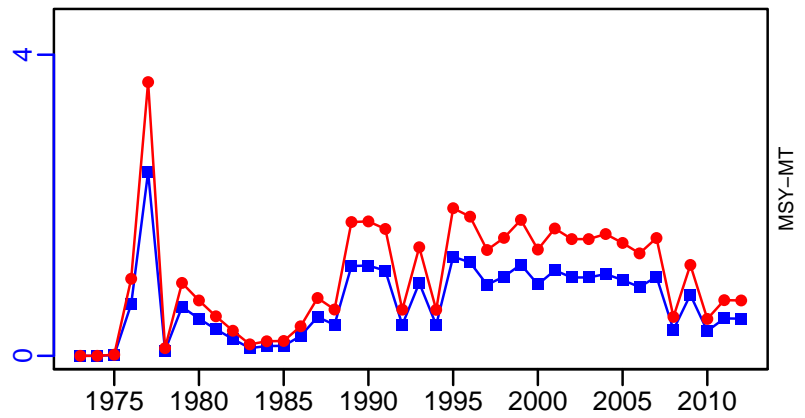
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1973–2012–FU)



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

South Pacific hake Central-Southern Chile [SPHAKECH]

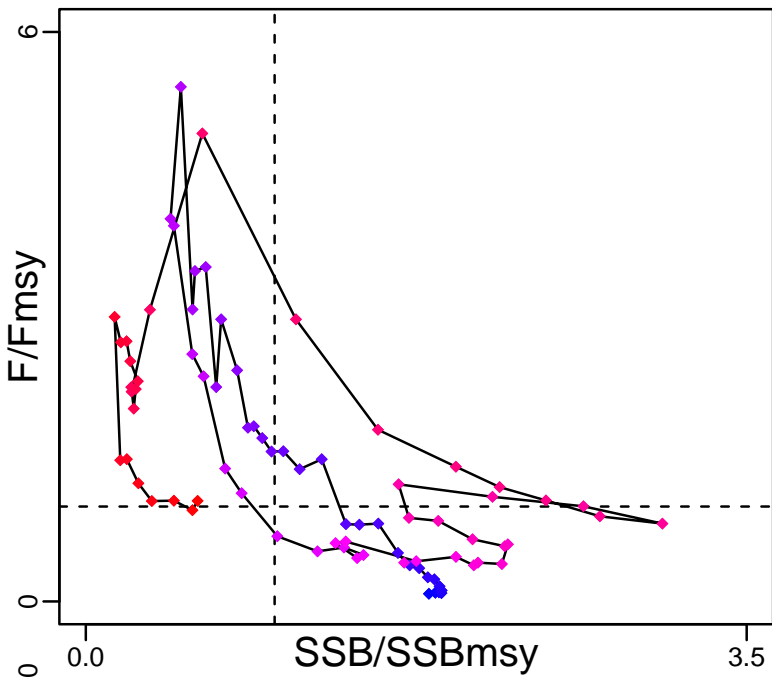
Metadata	
Scientific Name	Merluccius gayi
Current Assess ID	IFOPCH-SPHAKECH-1940-2020-Quiroz
Area	Central-Southern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2015, 2020, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2020	280,000
Fmsy	Fmsy-pr-1/yr	2020	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	280,000
Fmgt	Fmgt-1/yr	2020	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2020	587,360
MSY	-	-	-
M	M-1/yr	2015	0.33
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

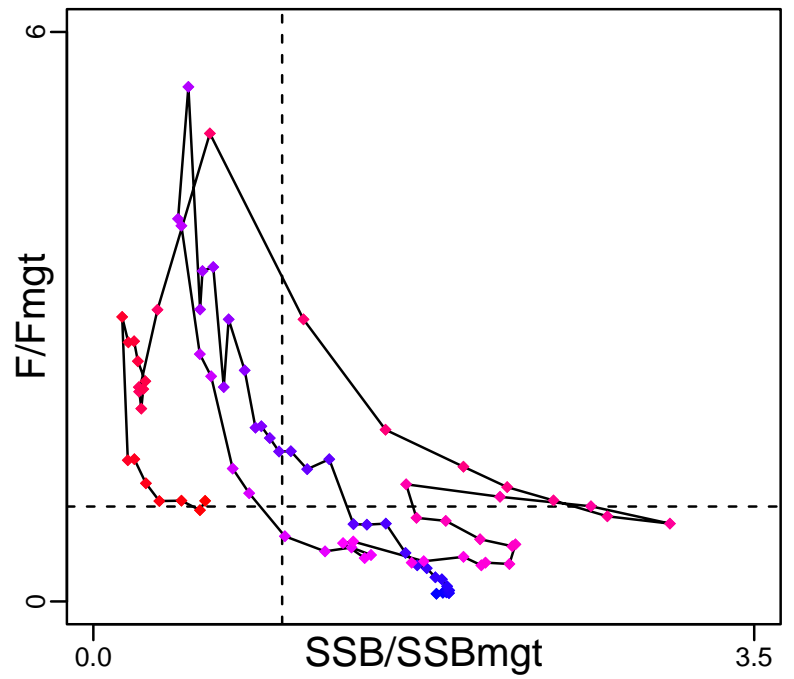
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	381,369	-	-
SSB	SSB-MT	2020	165,767	Both	-
TN	-	-	-	-	-
R	R-E00	2020	412,339,000	Both	-
F	F-1/yr	2020	0.212	-	-
ER	ER-calc-ratio	2020	0.145	-	-
TC	-	-	-		
TL	TL-MT	2020	55,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	0.592		
F/Fmsy	FdivFmsy-dimensionless	2020	1.06		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.592		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.06		
ER/ERmgt	-	-	-		

South Pacific hake Central–Southern Chile [SPHAKECH]

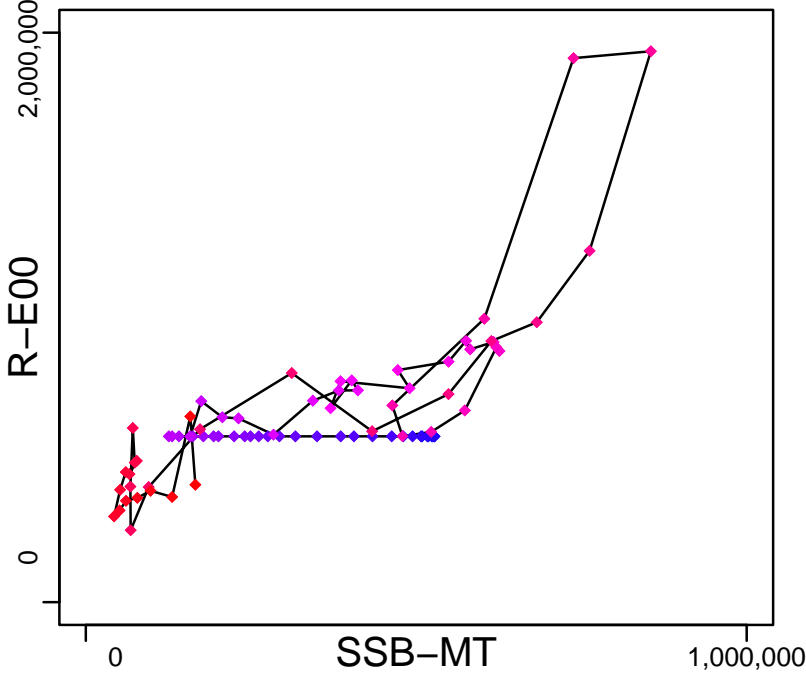
Kobe MSYpref (1940–2020–Quiroz)



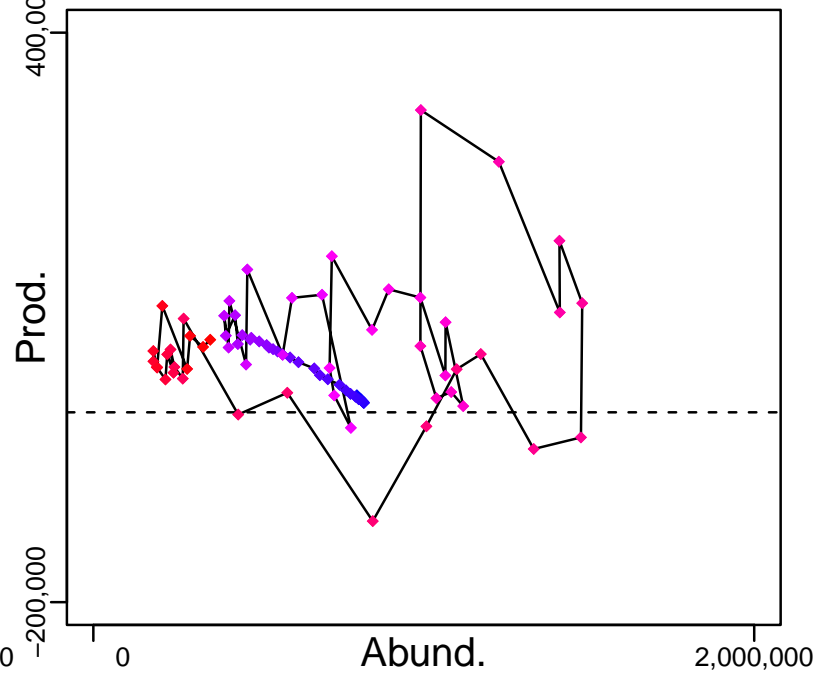
Kobe MGTpref (1940–2020–Quiroz)



Spawner Recruit (1940–2020–Quiroz)



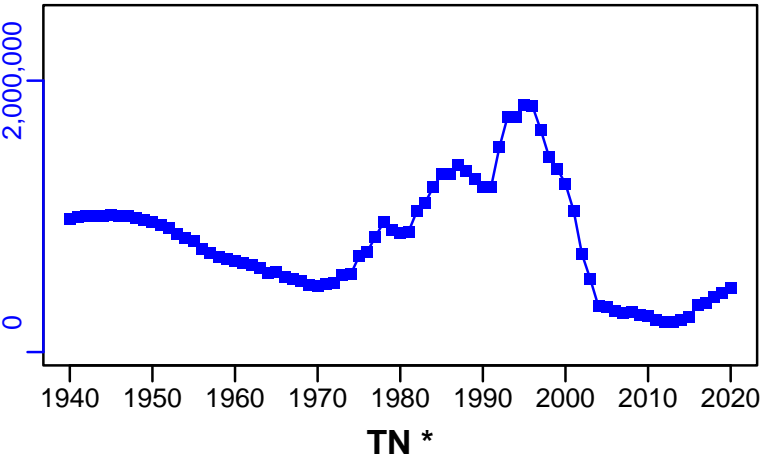
Production (1940–2020–Quiroz)



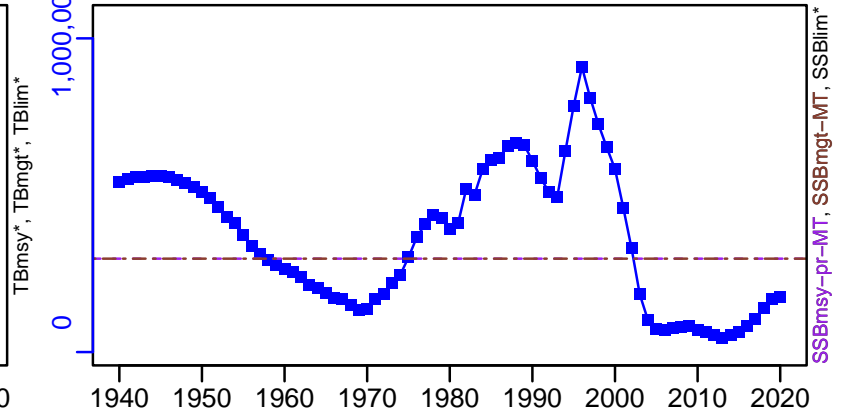
◆ Start Year ◆ End Year * No Data

South Pacific hake Central–Southern Chile [SPHAKECH]

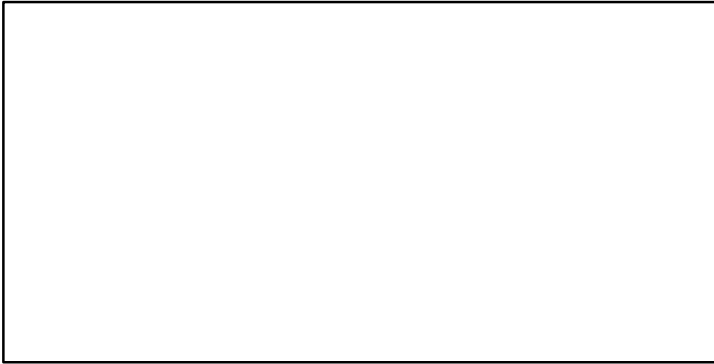
TB-MT (1940–2020–Quiroz)



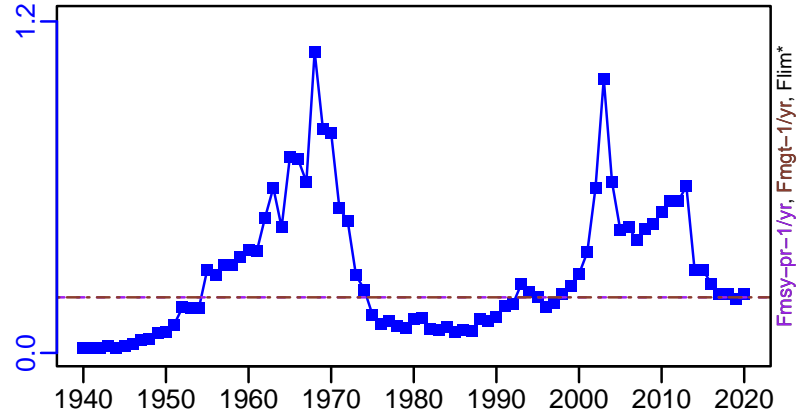
SSB-MT (1940–2020–Quiroz)



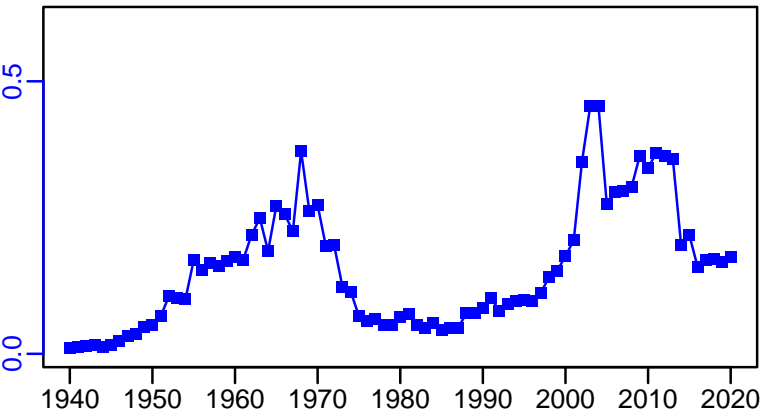
TN *



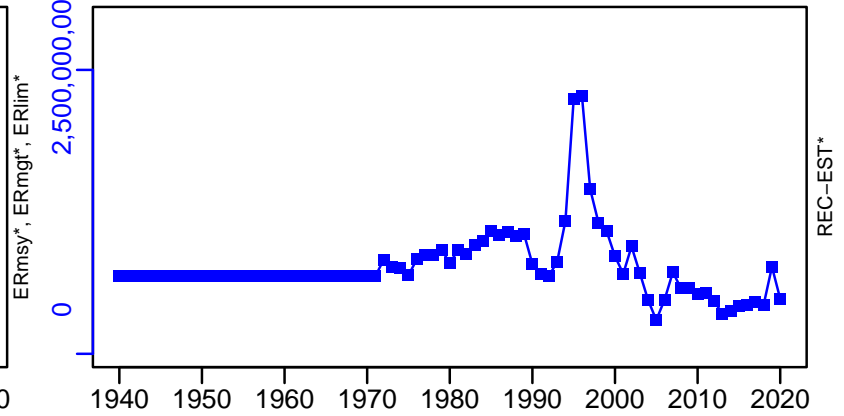
F-1/yr (1940–2020–Quiroz)



ER-calc-ratio (1940–2020–Quiroz)

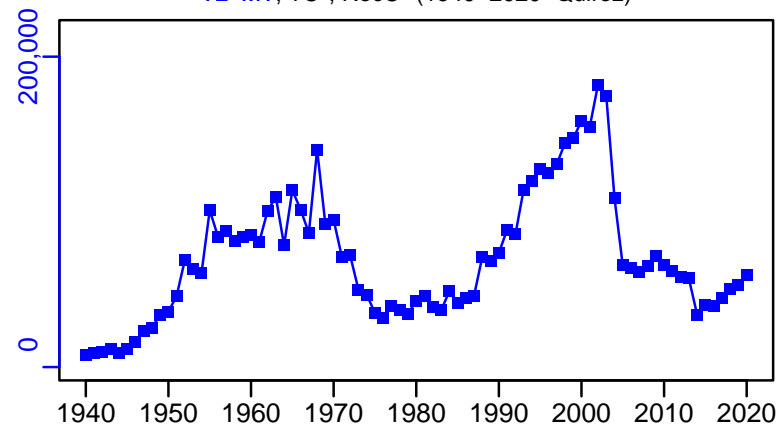


R-E00 (1940–2020–Quiroz)

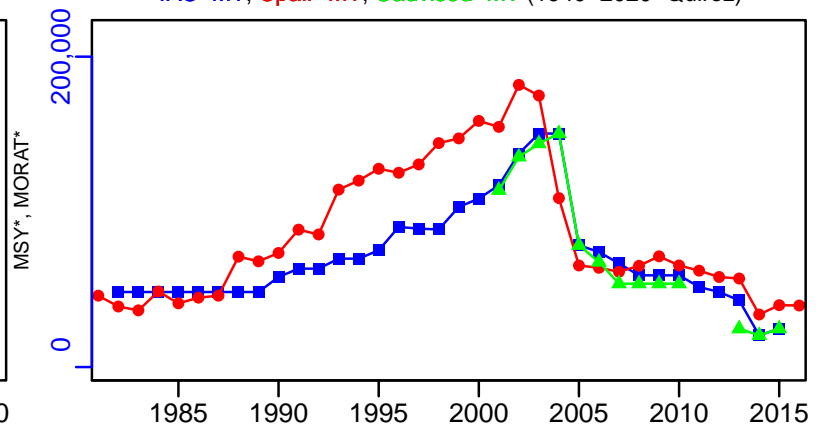


South Pacific hake Central–Southern Chile [SPHAKECH]

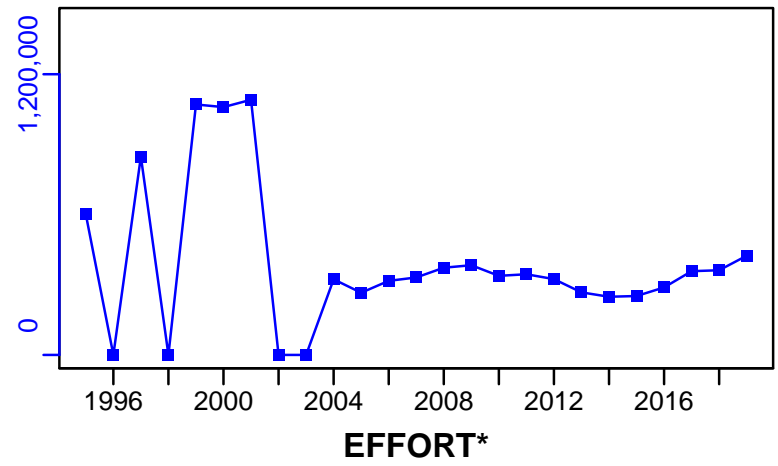
TL–MT, TC*, RecC* (1940–2020–Quiroz)



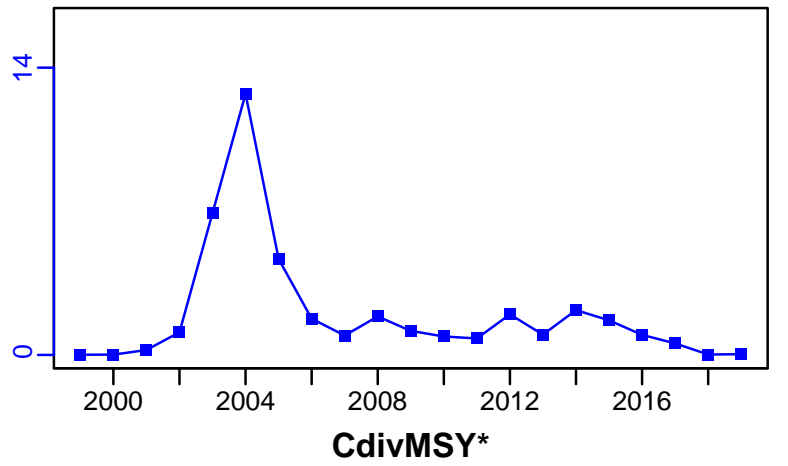
TAC–MT, Cpair–MT, Cadvised–MT (1940–2020–Quiroz)



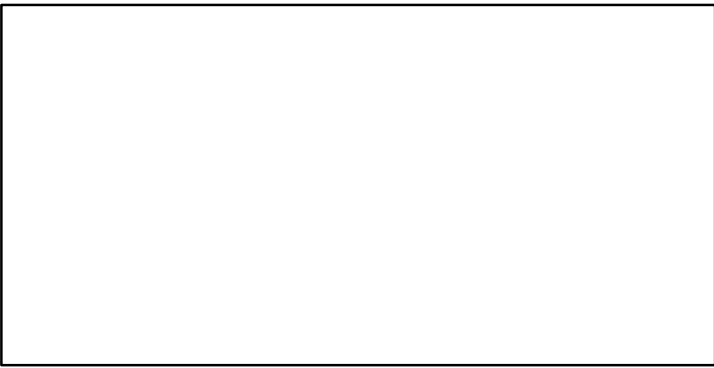
survB_absolute–MT (1940–2020–Quiroz)



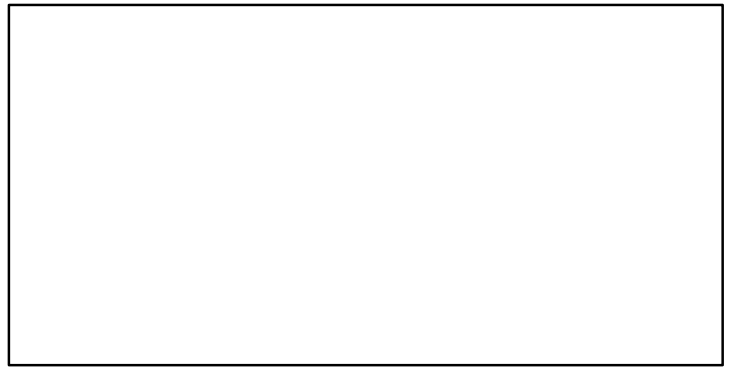
CPUE–index (1940–2020–Quiroz)



EFFORT*



CdivMSY*



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

White hake St. Pierre Bank [WHAKE3Ps]

Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	NAFO-SC-WHAKE3Ps-1960-2017-ASHBROOK
Area	St. Pierre Bank
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2017

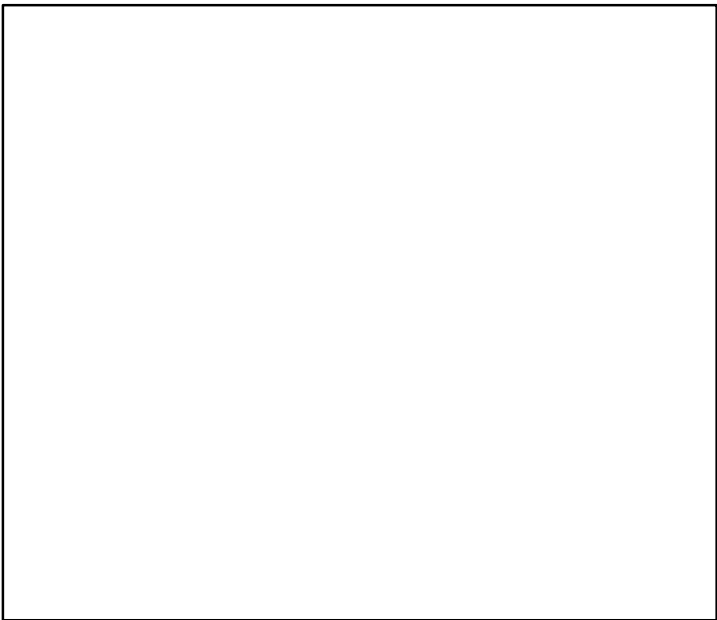
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	445		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

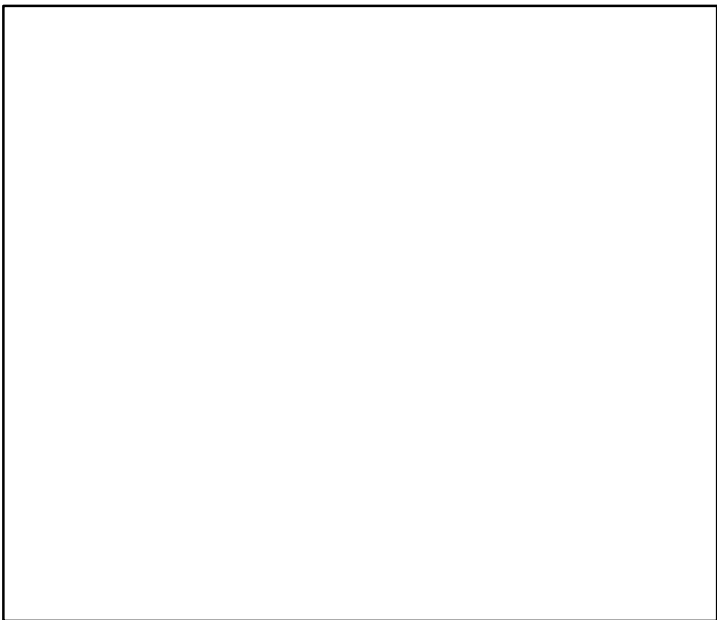
Kobe MSY*



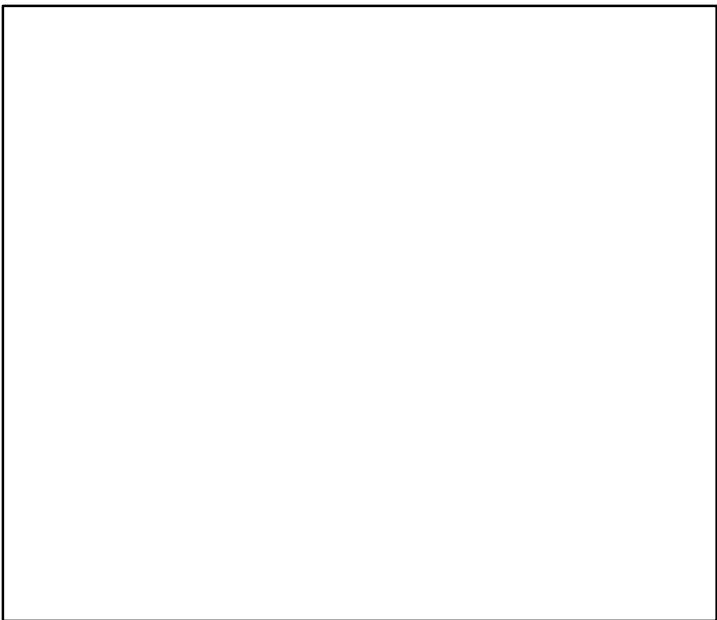
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

White hake St. Pierre Bank [WHAKE3Ps]

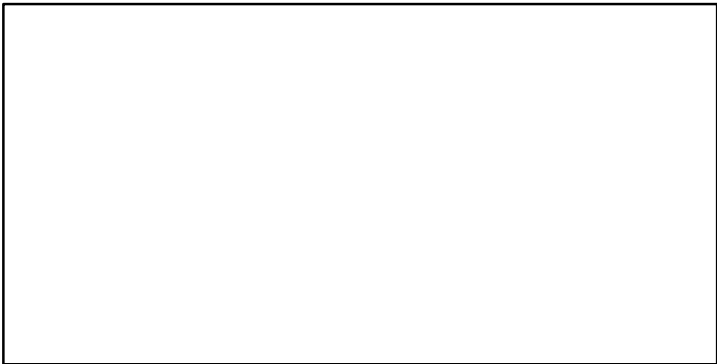
TB*



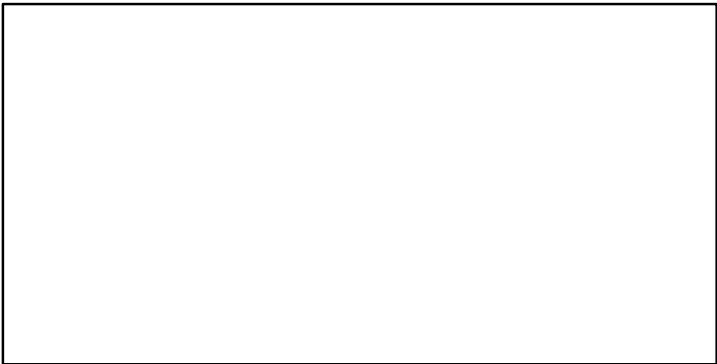
SSB*



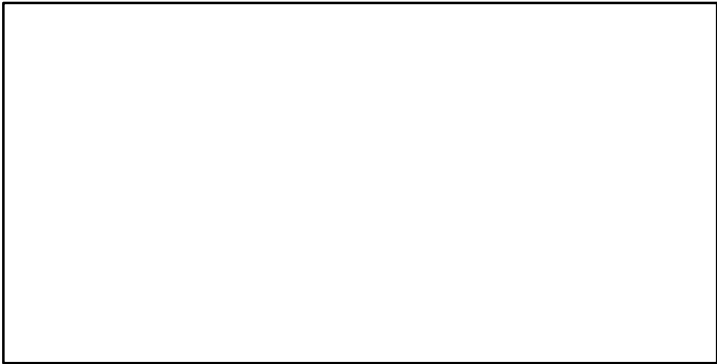
TN *



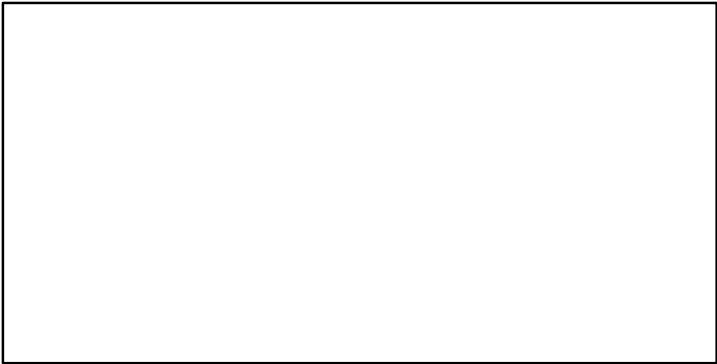
F*



ER*



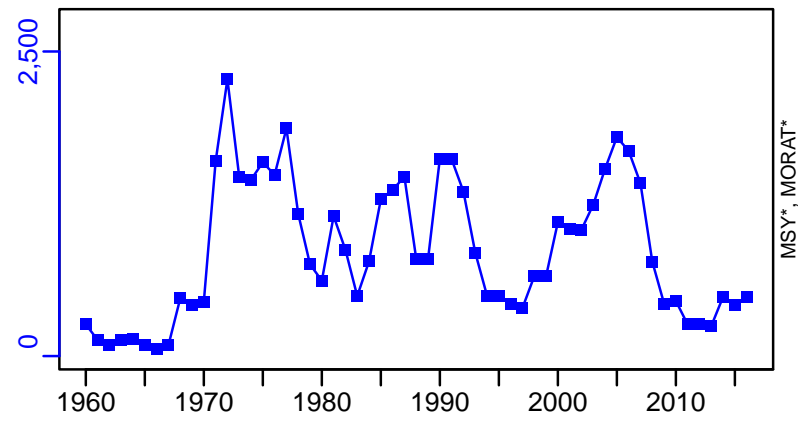
Recruits*



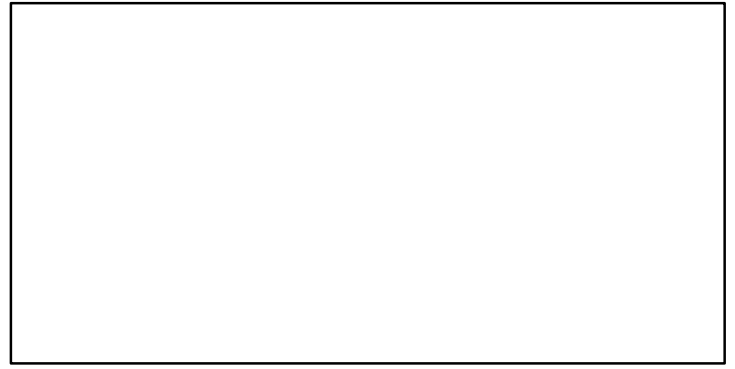
■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

White hake St. Pierre Bank [WHAKE3Ps]

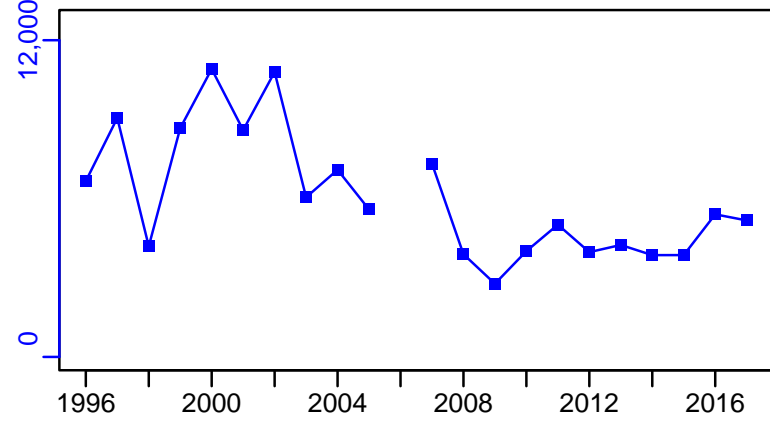
TL-MT, TC*, RecC* (1960-2017-ASHBROOK)



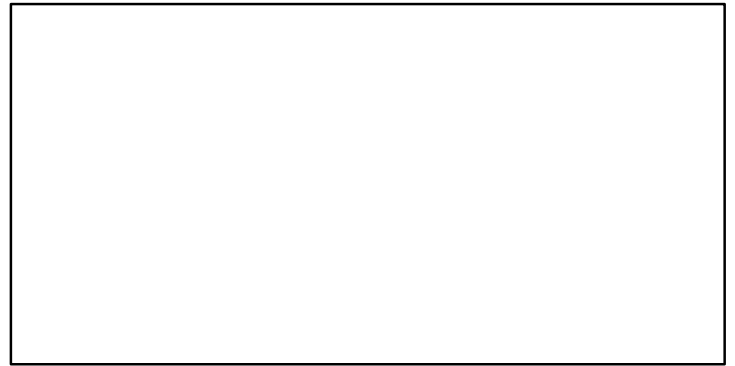
TAC*, Cpair*, Cadv*



survB-MT (1960-2017-ASHBROOK)



CPUE*



EFFORT*



CdivMSY*



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

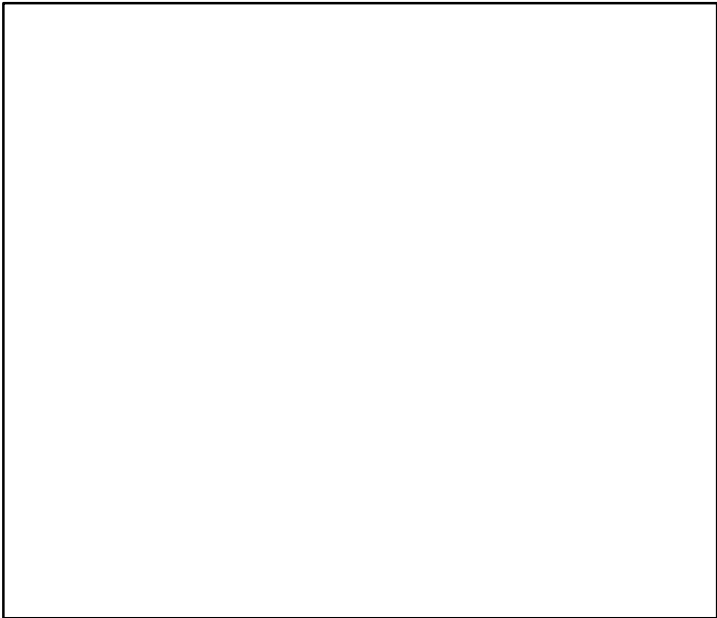
White hake Northern Gulf of St. Lawrence [WHAKE4RS]

Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	DFO-QUE-WHAKE4RS-1960-2014-OSGOOD
Area	Northern 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	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	10		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

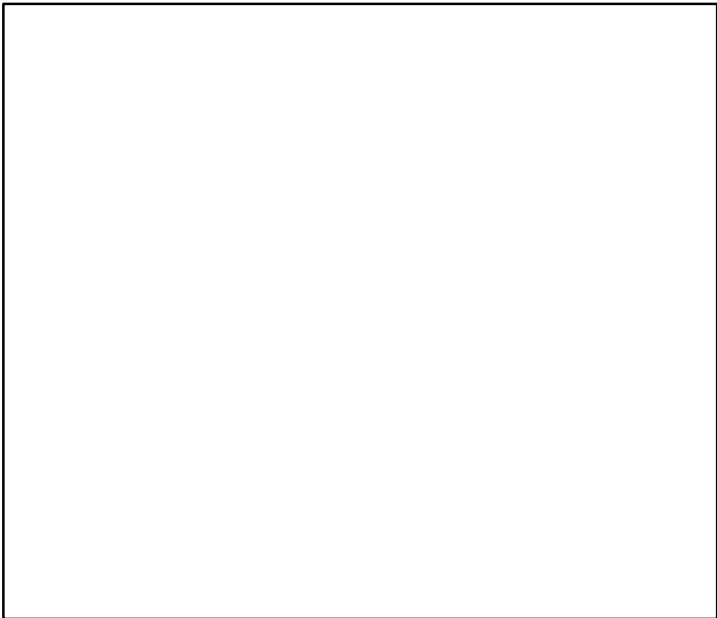
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

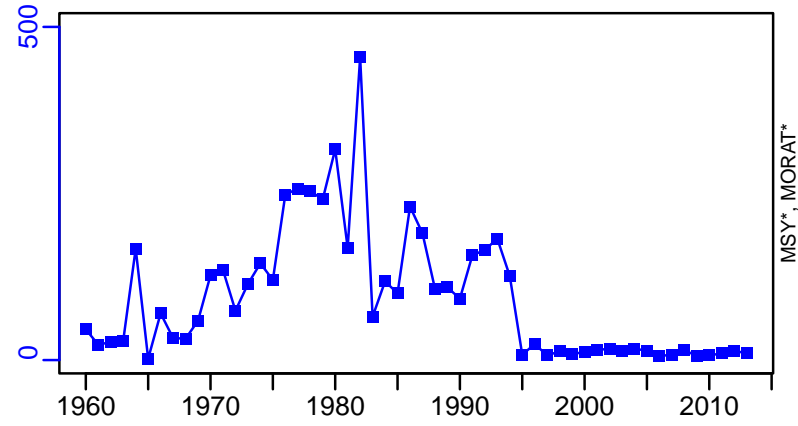


Recruits*

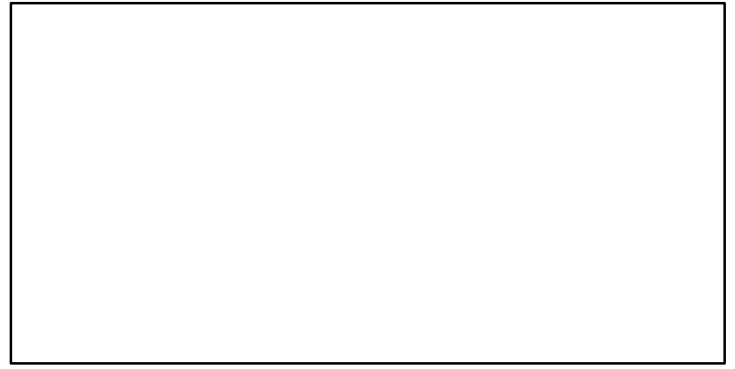


White hake Northern Gulf of St. Lawrence [WHAKE4RS]

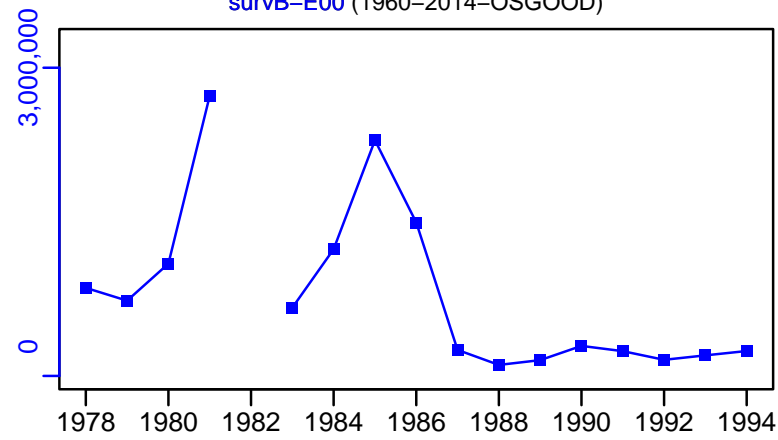
TL-MT, TC*, RecC* (1960–2014–OSGOOD)



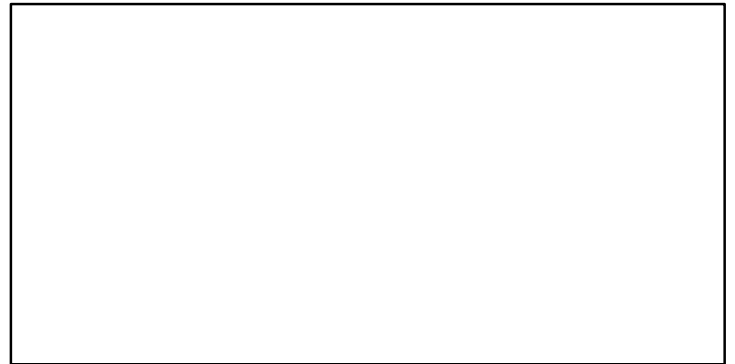
TAC*, Cpair*, Cadv*



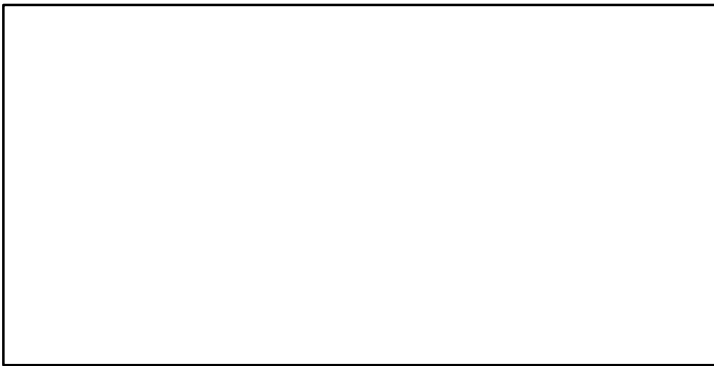
survB-E00 (1960–2014–OSGOOD)



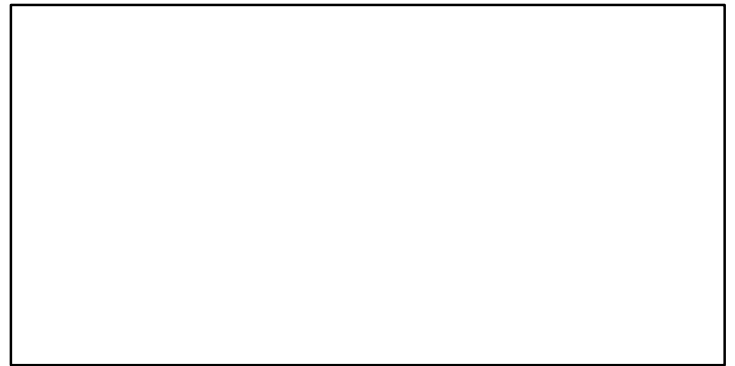
CPUE*



EFFORT*



CdivMSY*



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

White hake Southern Gulf of St. Lawrence [WHAKE4T]

Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	DFO-SG-WHAKE4T-1960-2019-HIVELY
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	2013, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2013	1.078
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	21,900	Both	1+
SSB	SSB-MT	2019	7069	-	-
TN	TN-E00	2019	11,783,259	-	-
R	R-E00	2019	118,265,440	-	2
F	F-1/yr	2019	0.029	-	-
ER	ER-calc-ratio	2013	0.001	-	-
TC	-	-	-		
TL	TL-MT	2019	700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White hake Southern Gulf of St. Lawrence [WHAKE4T]

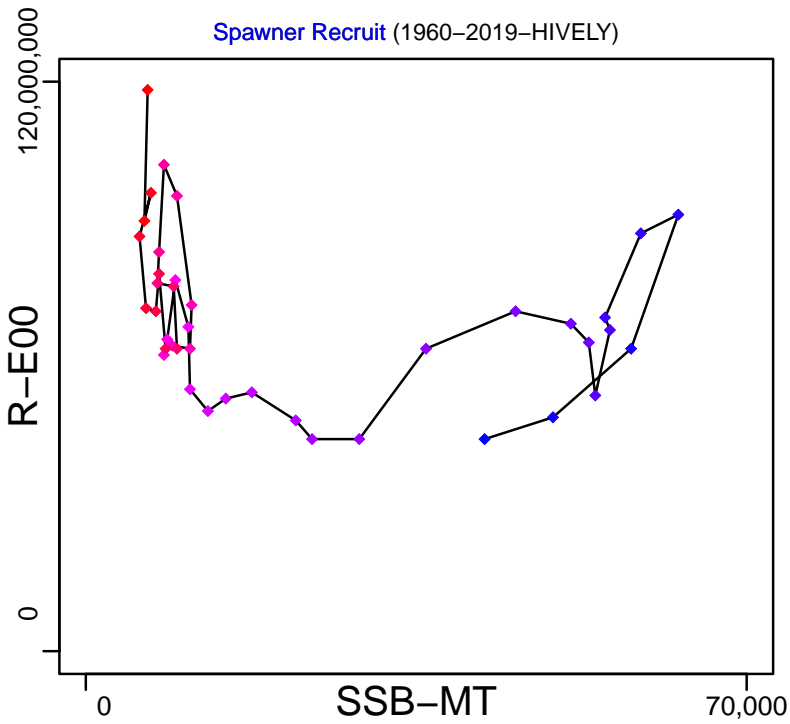
Kobe MSY*



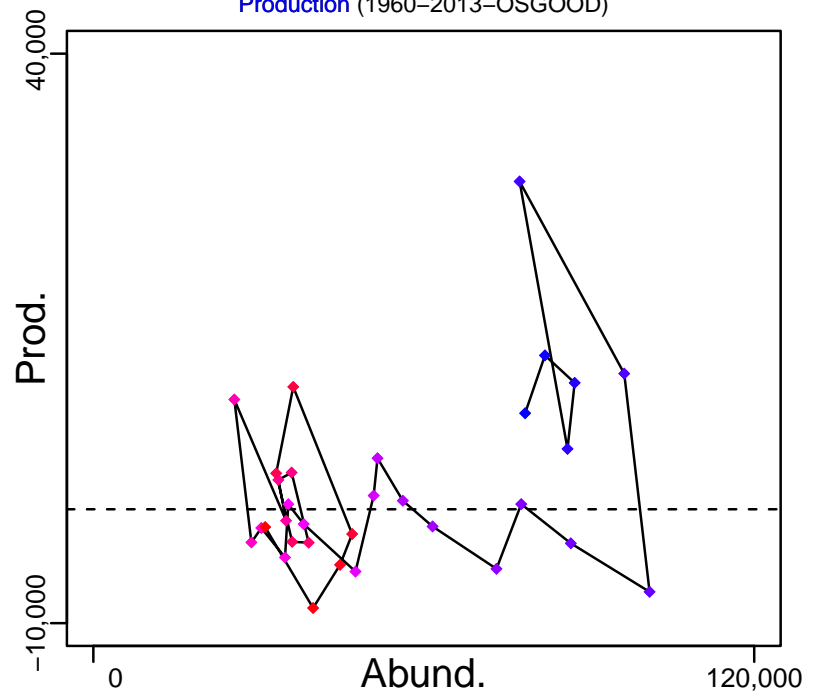
Kobe MGT*



Spawner Recruit (1960–2019–HIVELY)



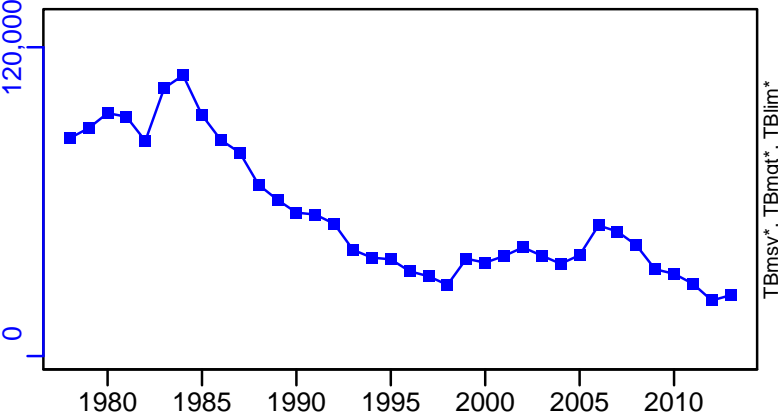
Production (1960–2013–OSGOOD)



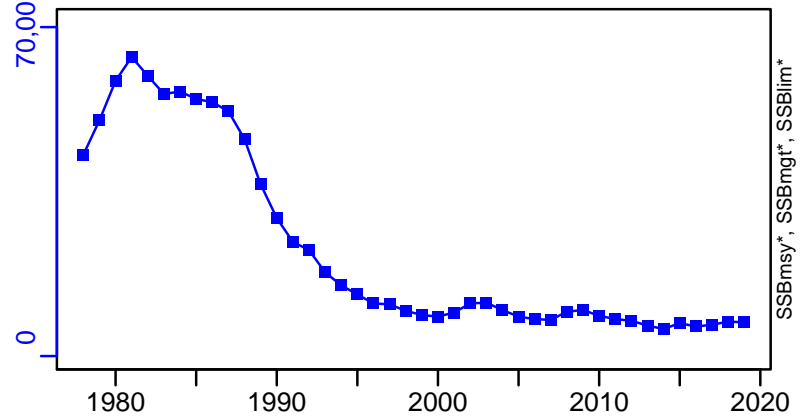
◆ Start Year ◆ End Year * No Data

White hake Southern Gulf of St. Lawrence [WHAKE4T]

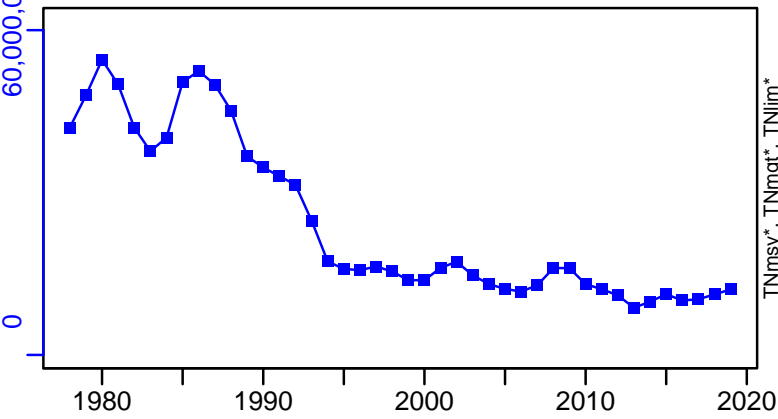
TB-MT (1960–2013–OSGOOD)



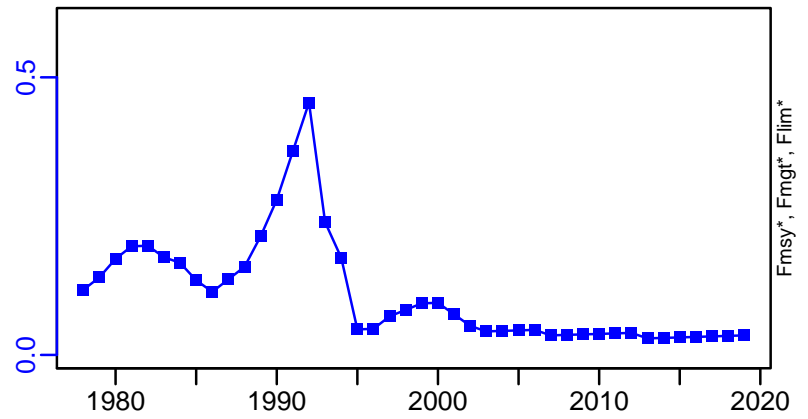
SSB-MT (1960–2019–HIVELY)



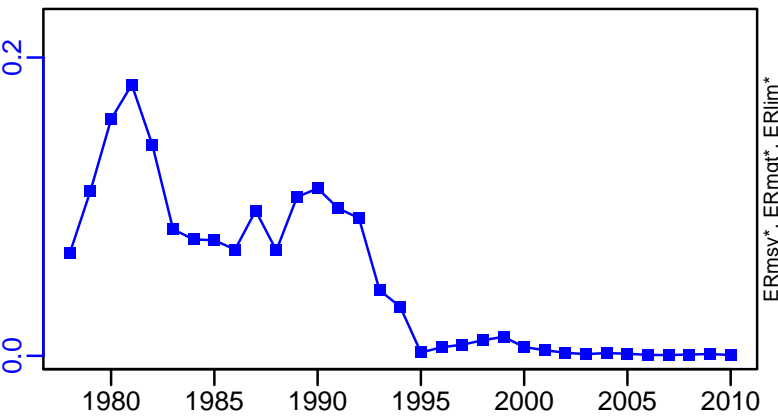
TN-E00 (1960–2019–HIVELY)



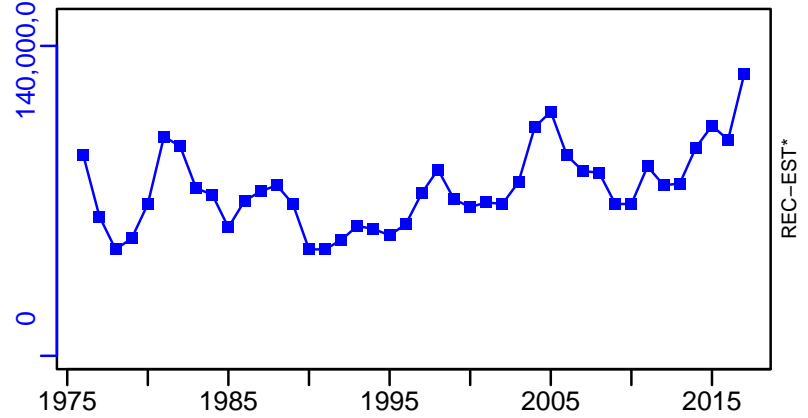
F-1/yr (1960–2019–HIVELY)



ER-calc-ratio (1960–2013–OSGOOD)



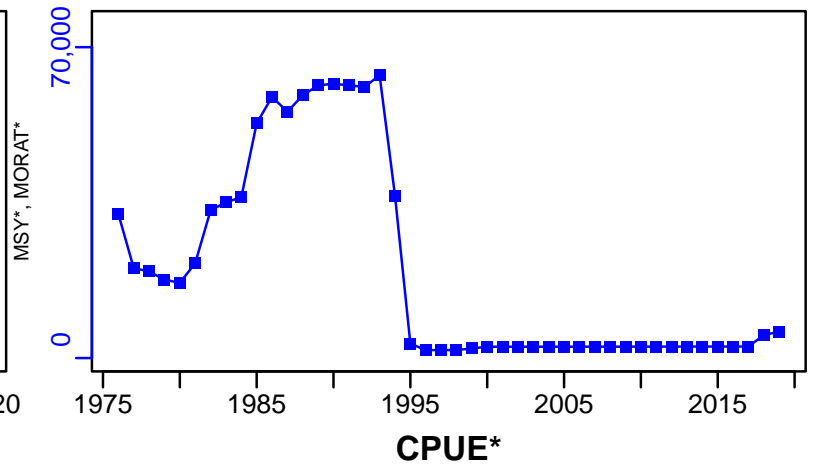
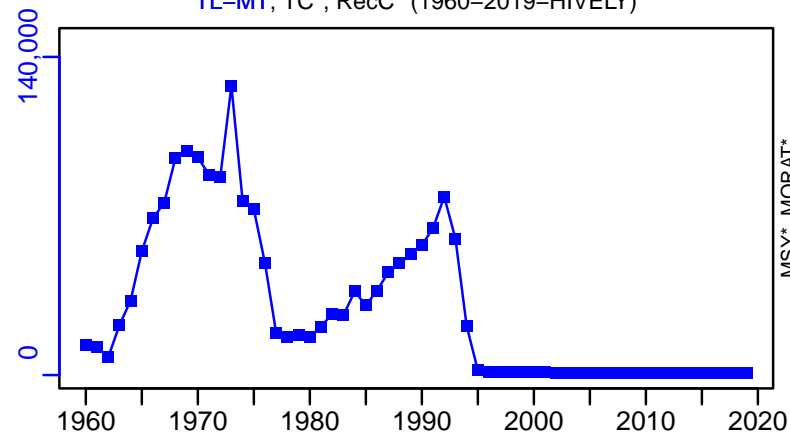
R-E00 (1960–2019–HIVELY)



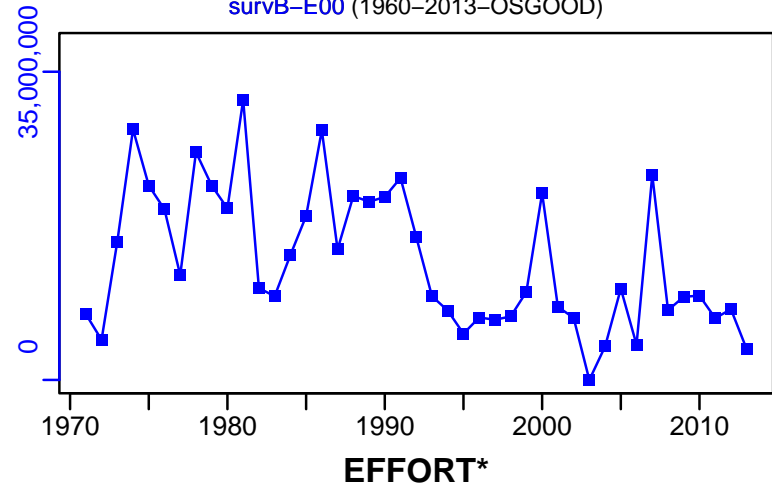
White hake Southern Gulf of St. Lawrence [WHAKE4T]

TL-MT, TC*, RecC* (1960–2019–HIVELY)

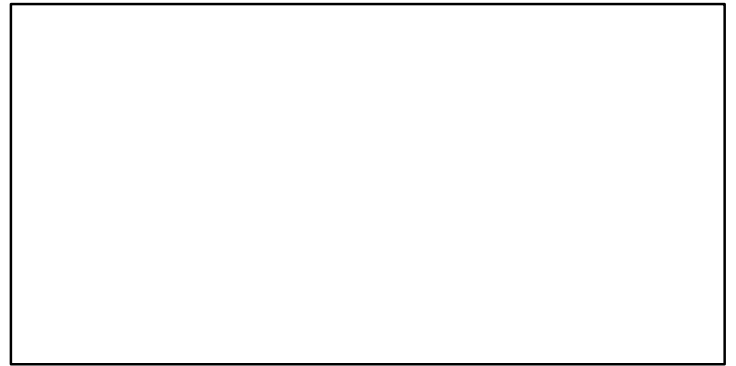
TAC-MT, Cpair*, Cadv* (1960–2019–HIVELY)



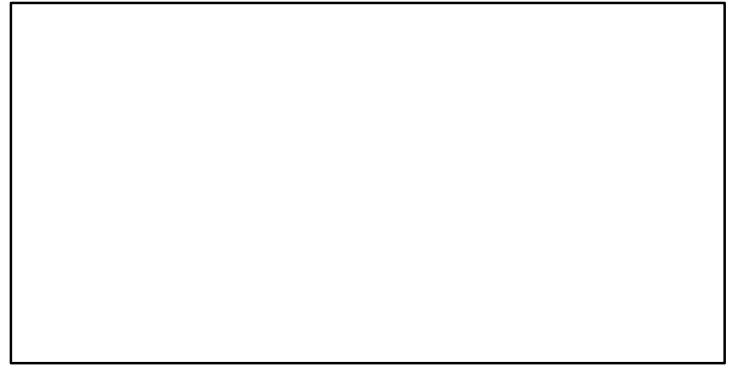
survB-E00 (1960–2013–OSGOOD)



CPUE*



CdivMSY*



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

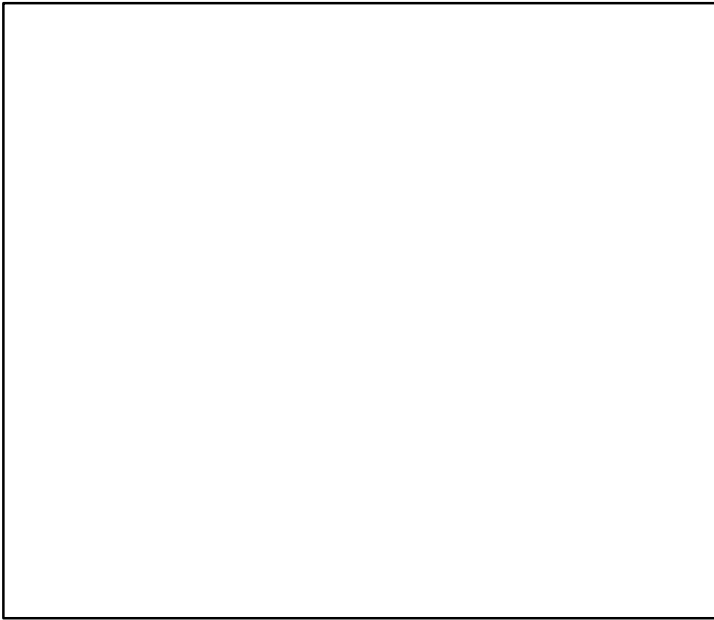
White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE
Area	Scotian Shelf, Bay of Fundy and Georges Bank
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2005

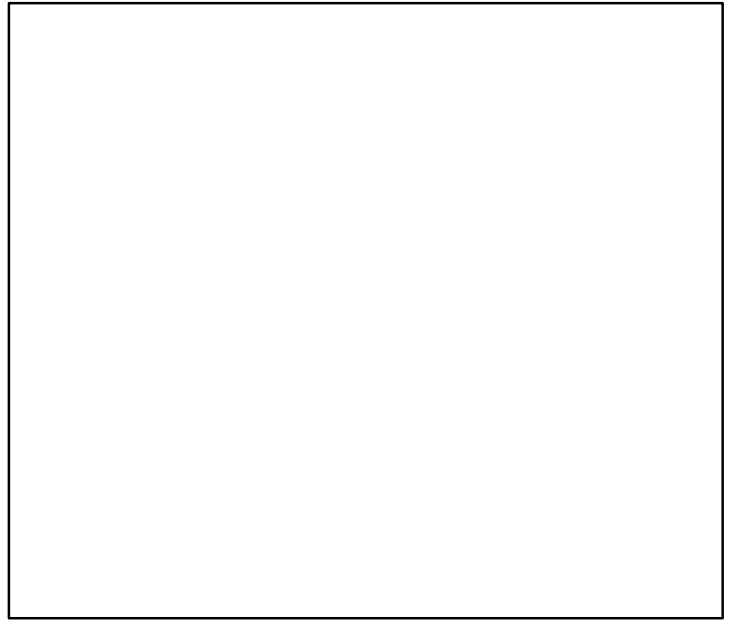
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2005	2060		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

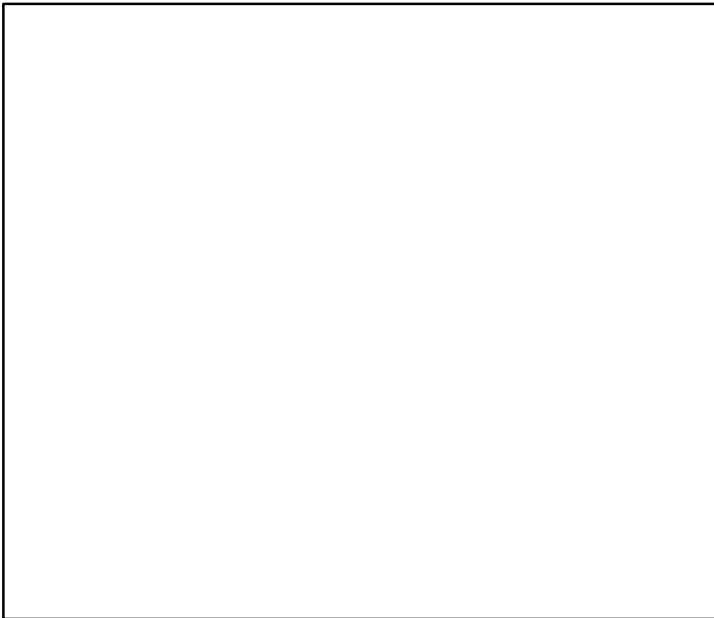
Kobe MSY*



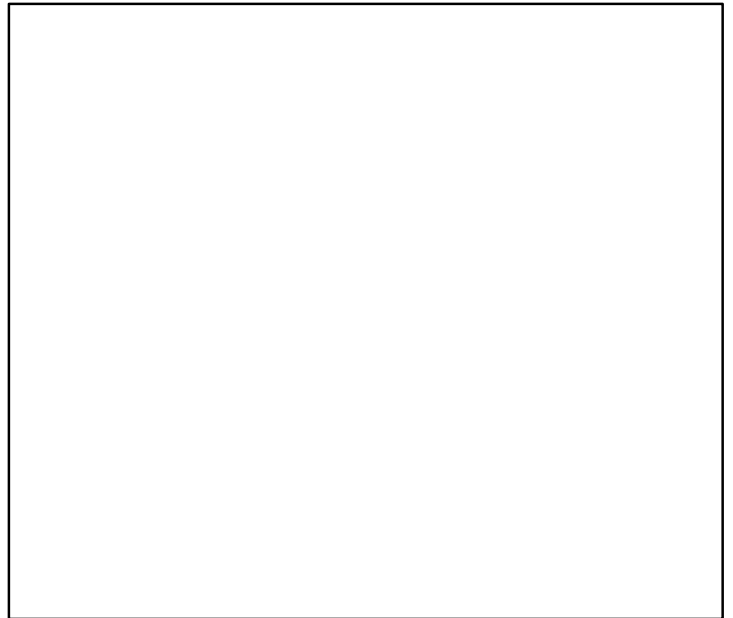
Kobe MGT*



Spawner Recruit*



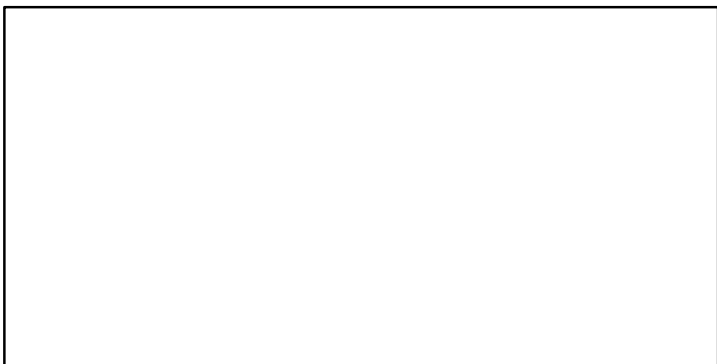
Production*



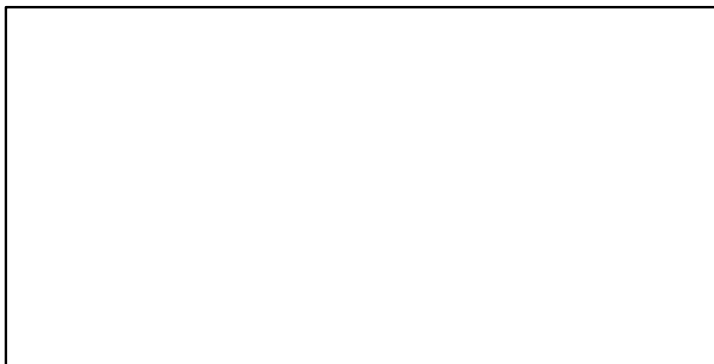
◆ Start Year ◆ End Year * No Data

White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

TB*



SSB*



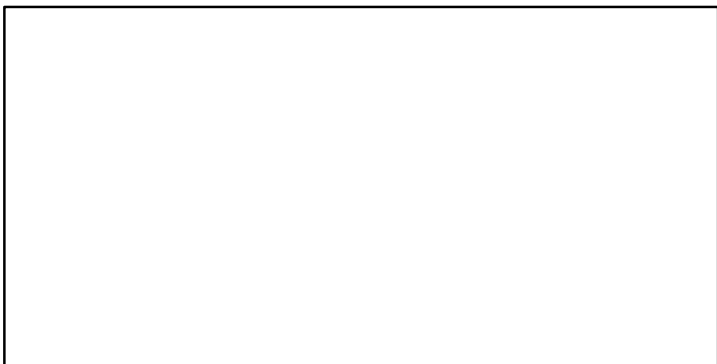
TN *



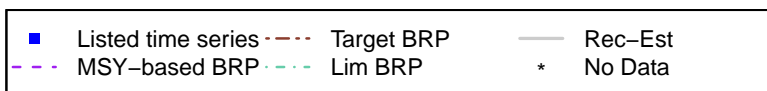
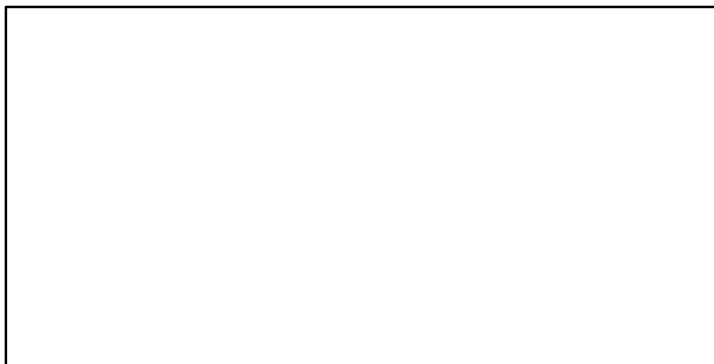
F*



ER*

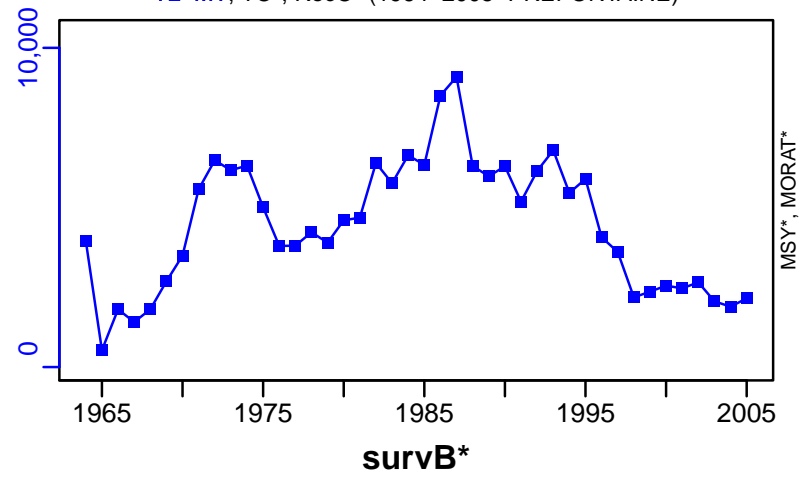


Recruits*

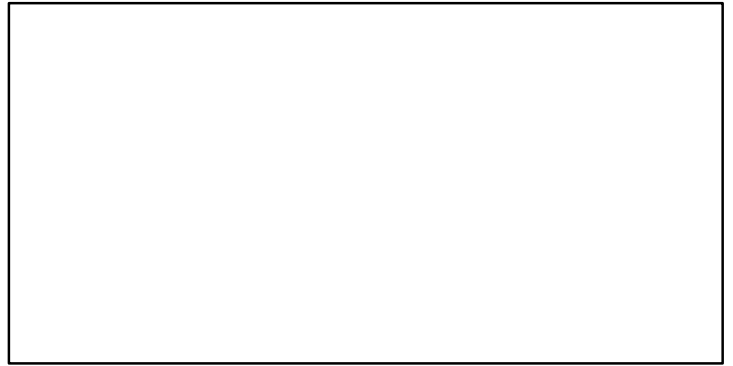


White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

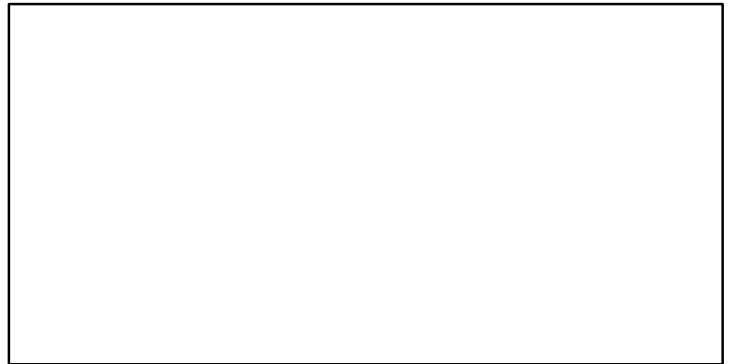
TL-MT, TC*, RecC* (1964-2005-PREFONTAINE)



TAC*, Cpair*, Cadv*



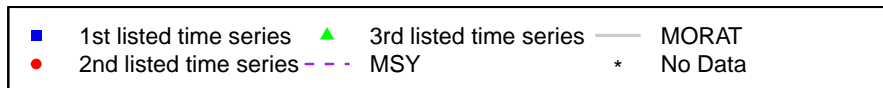
CPUE*



EFFORT*



CdivMSY*



White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

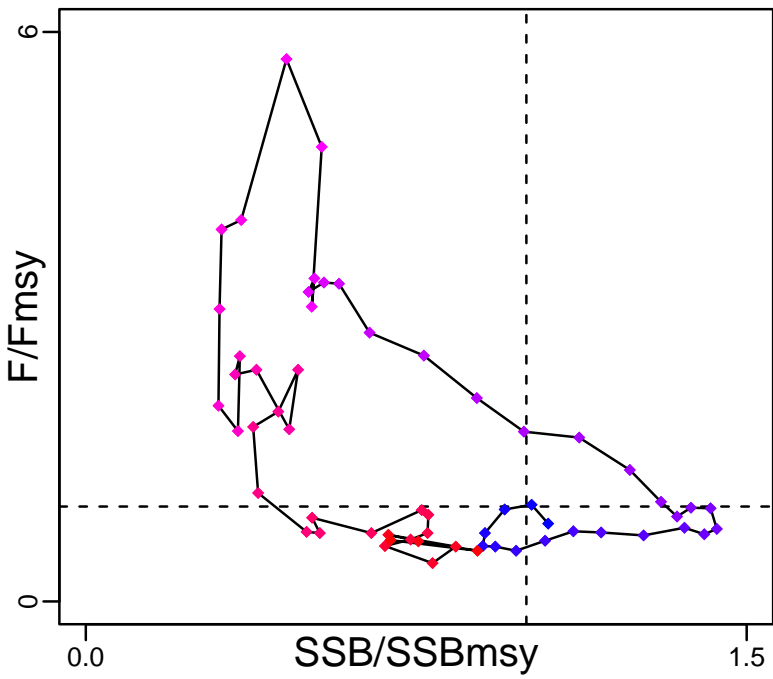
Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	NEFSC-WHAKEGBGOM-1962-2022-SISIMP2024
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2018, 2022, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	28,191
Fmsy	Fmsy-1/yr	2022	0.161
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	4186
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2022	14,095
Flim	Flim-1/yr	2018	0.168
ERlim	-	-	-

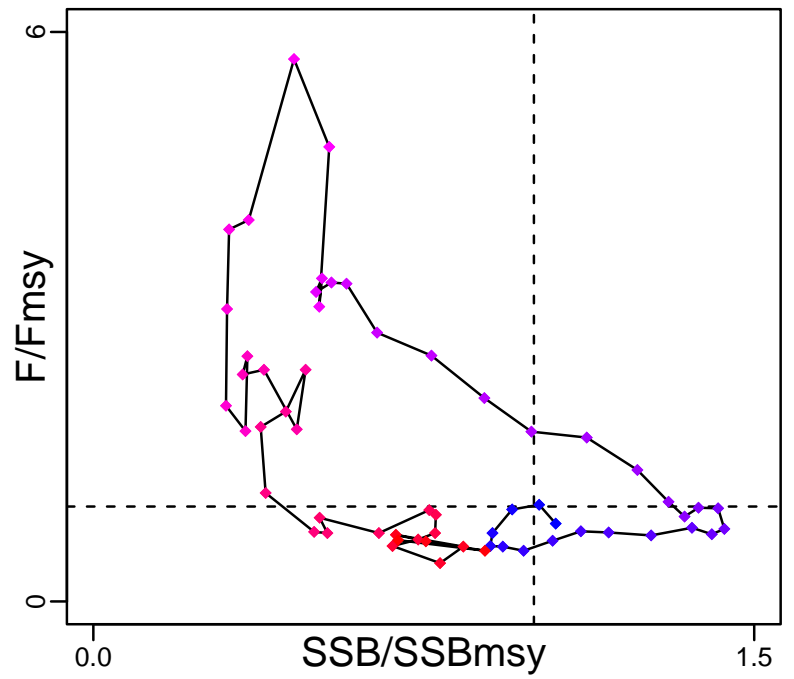
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	31,200	-	-
SSB	SSB-MT	2022	17,978	-	-
TN	-	-	-	-	-
R	R-E00	2022	1740	-	1
F	F-1/yr	2022	0.104	-	-
ER	ER-calc-ratio	2011	0.093	-	-
TC	TC-MT	2022	1869		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.638		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.646		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

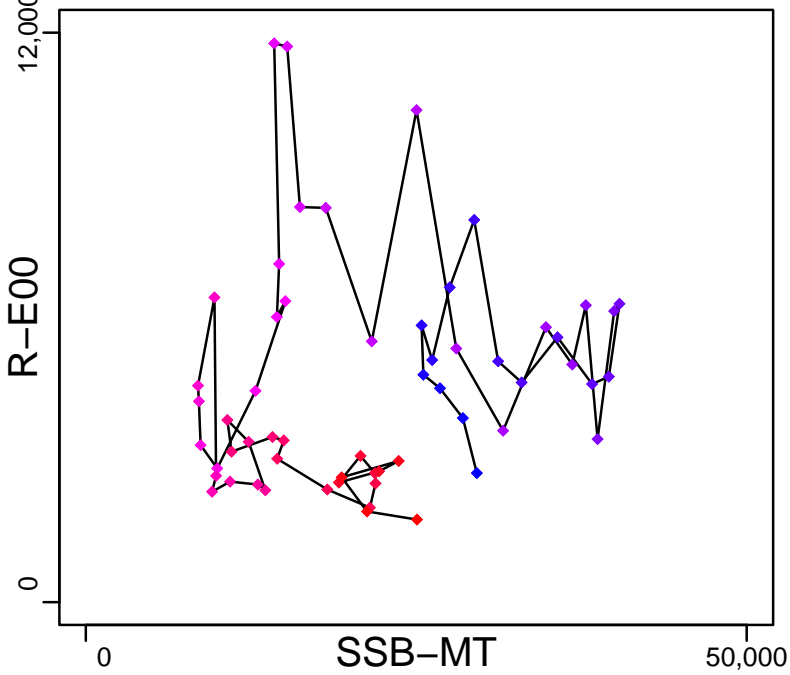
Kobe MSYpref (1962–2022–SISIMP2024)



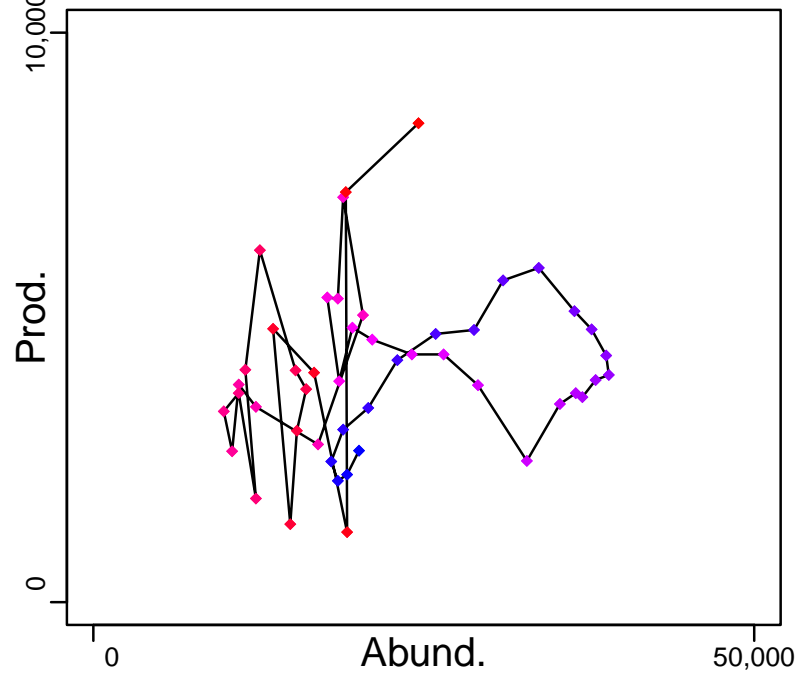
Kobe MGTpref (1962–2022–SISIMP2024)



Spawner Recruit (1962–2022–SISIMP2024)



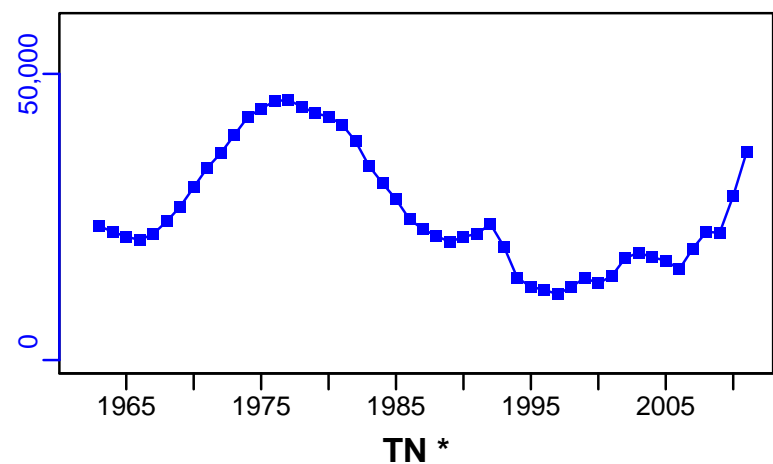
Production (1962–2011–HIVELY)



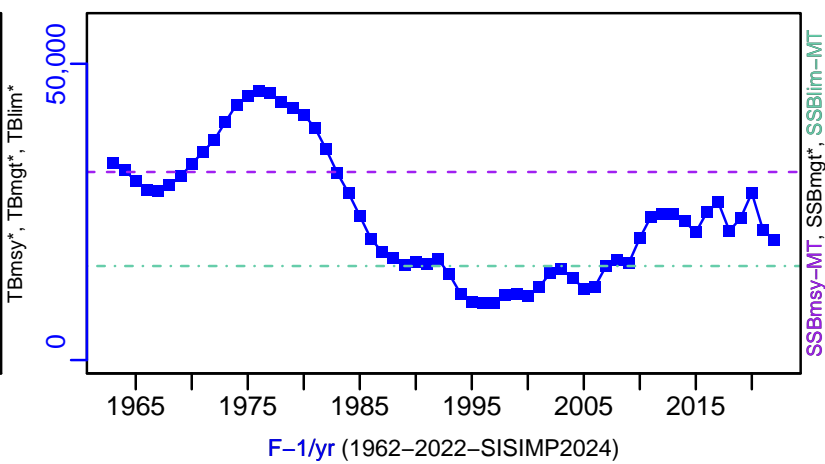
◆ Start Year ◆ End Year * No Data

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

TB-MT (1962–2011–HIVELY)



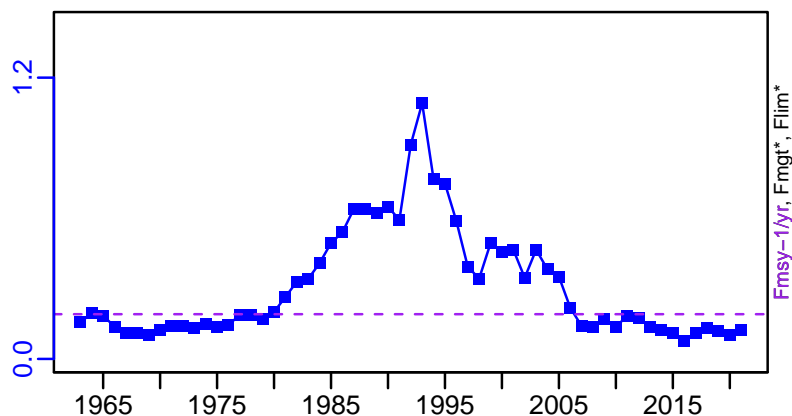
SSB-MT (1962–2022–SISIMP2024)



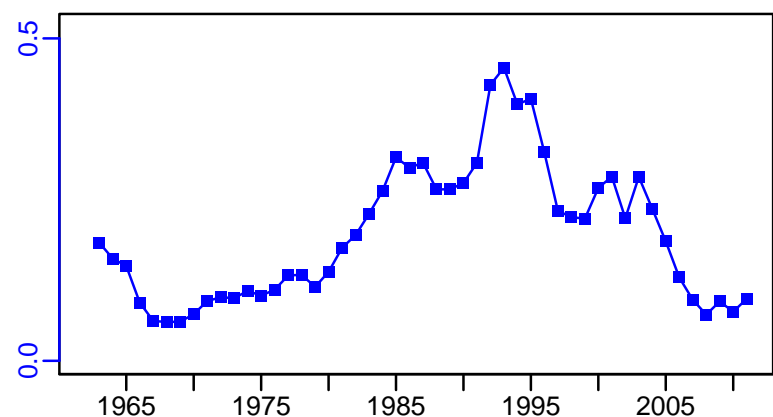
TN *



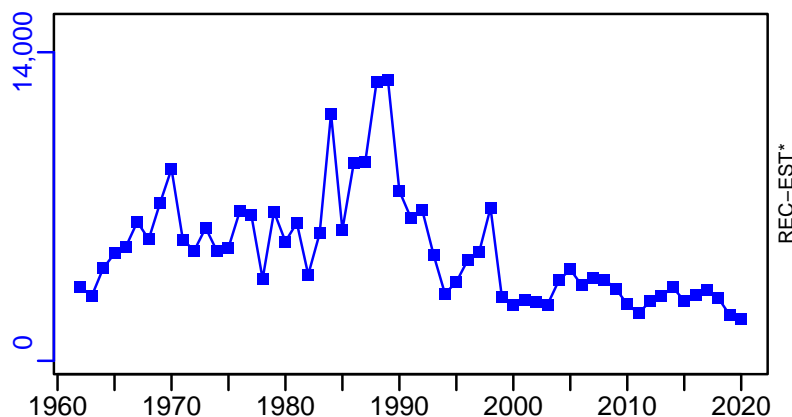
F-1/yr (1962–2022–SISIMP2024)



ER-calc-ratio (1962–2011–HIVELY)

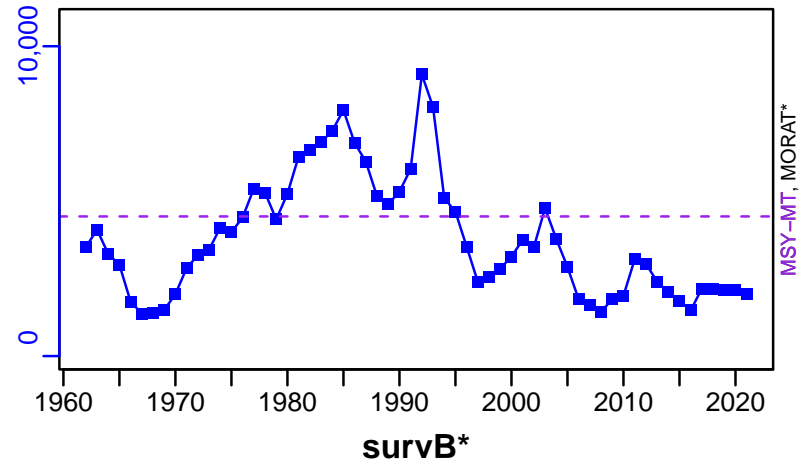


R-E00 (1962–2022–SISIMP2024)

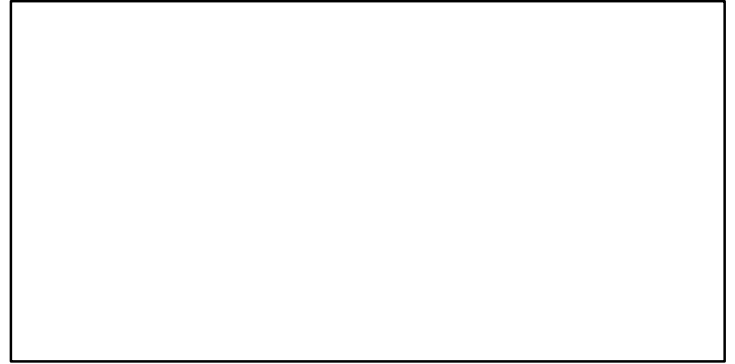


White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

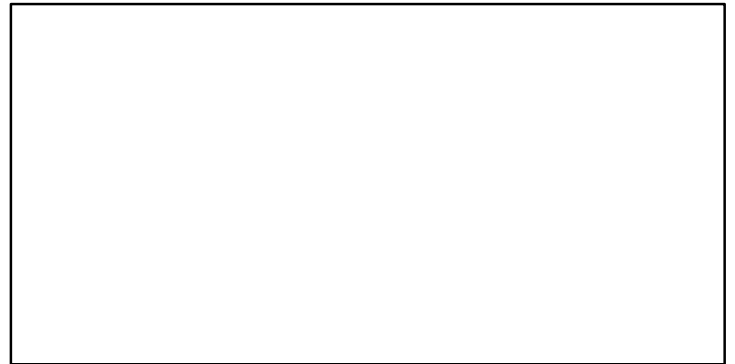
TC-MT, TL*, RecC* (1962-2022-SISIMP2024)



TAC*, Cpair*, Cadv*



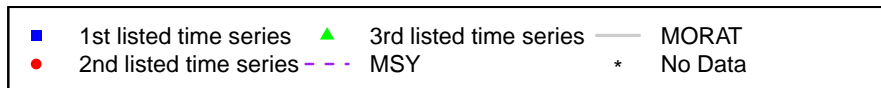
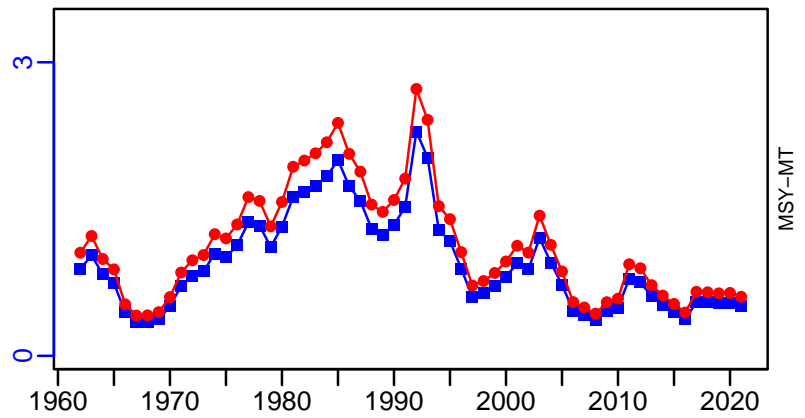
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962-2022-SISIMP2024)

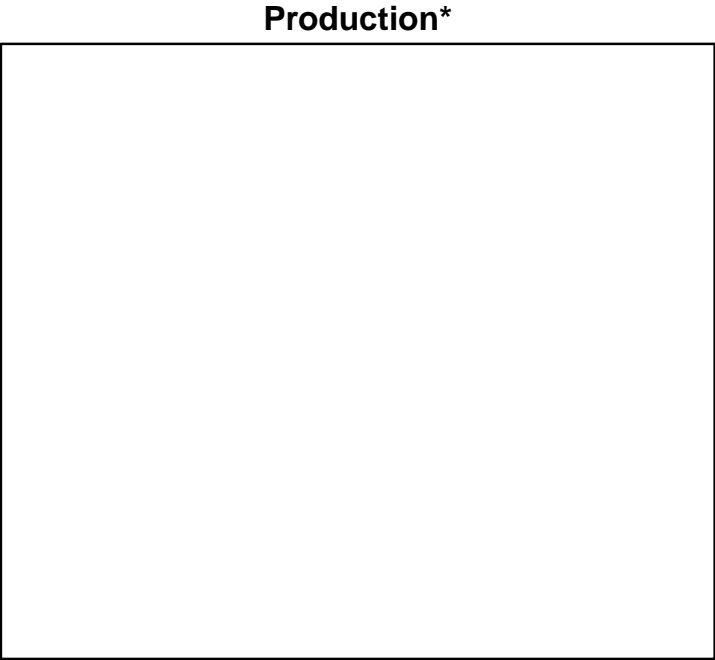
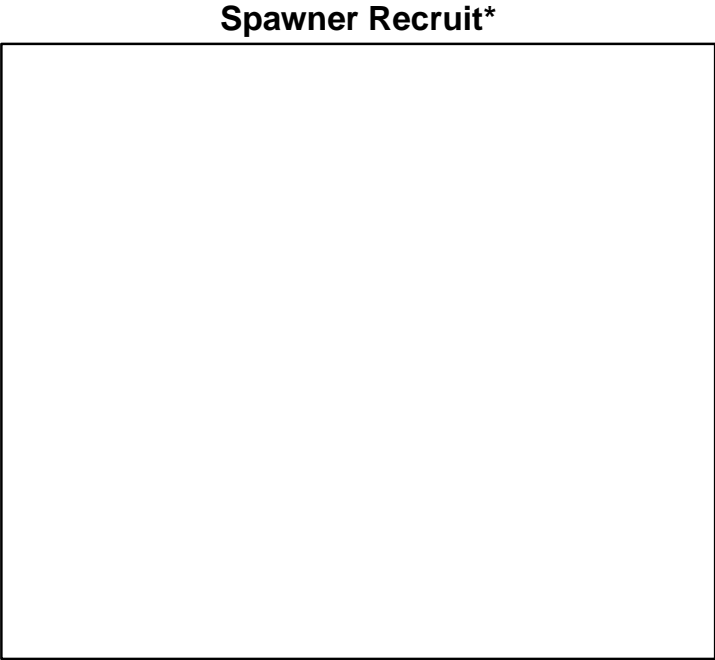
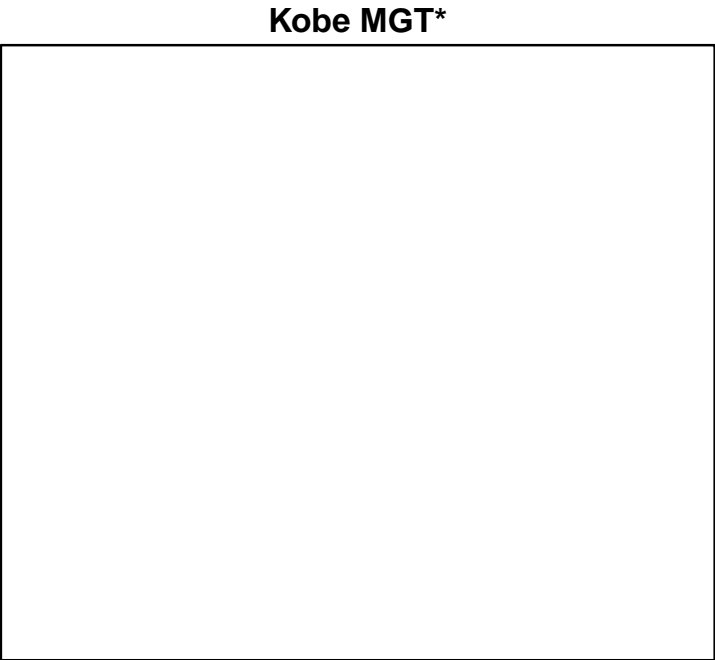
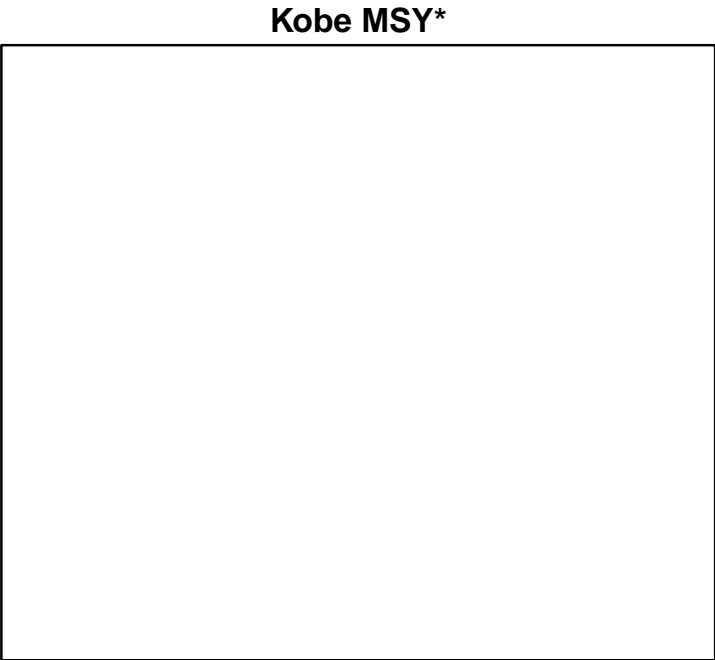


Whiting Kattegat and Skagerrak [WHITIIIa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITIIIa-1975-2019-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	2014, 2016, 2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	806		
TL	TL-MT	2019	179		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Whiting Kattegat and Skagerrak [WHITIIIa]

TB*



SSB*



TN *



F*



ER*



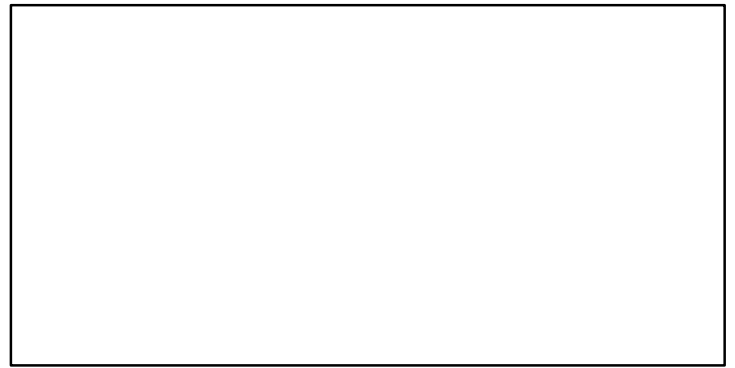
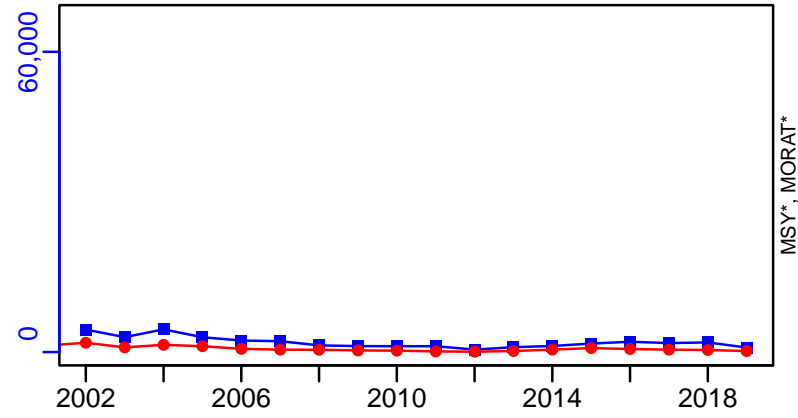
Recruits*



Whiting Kattegat and Skagerrak [WHITIIIa]

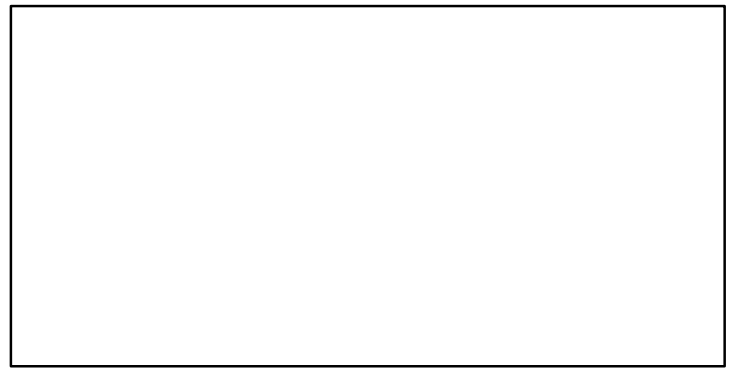
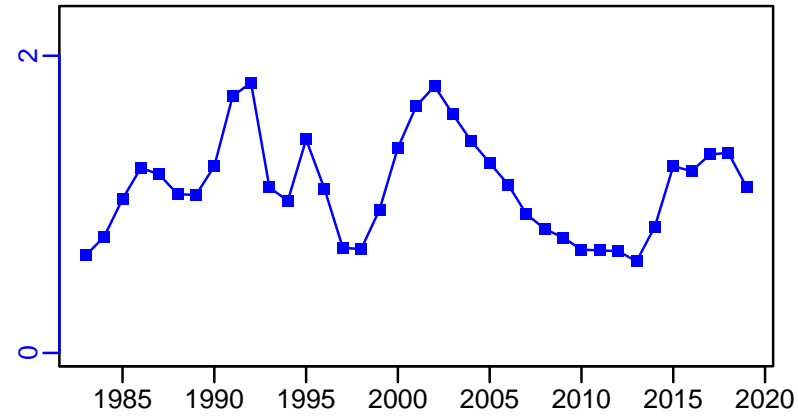
TC-MT, TL-MT, RecC* (1975–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



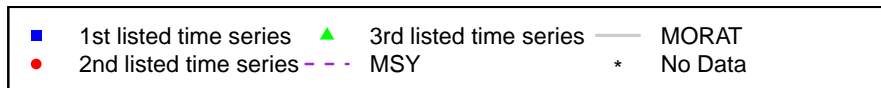
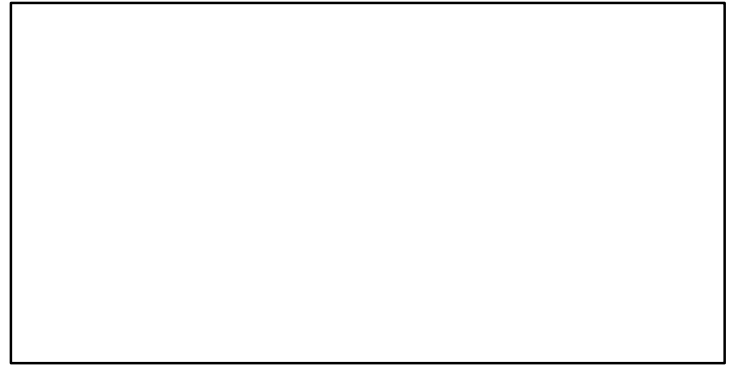
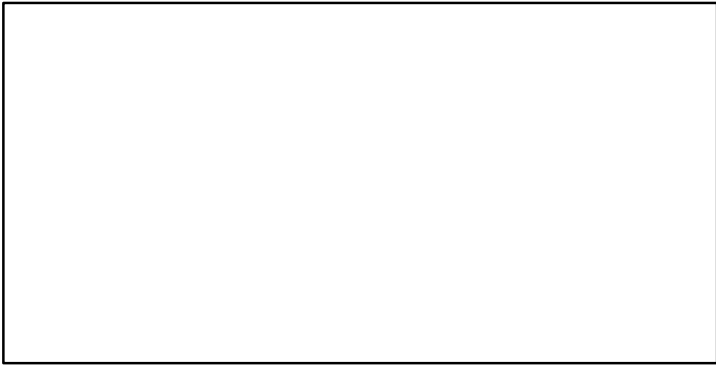
survB-index (1975–2019–ICESIMP2021–2)

CPUE*



EFFORT*

CdivMSY*

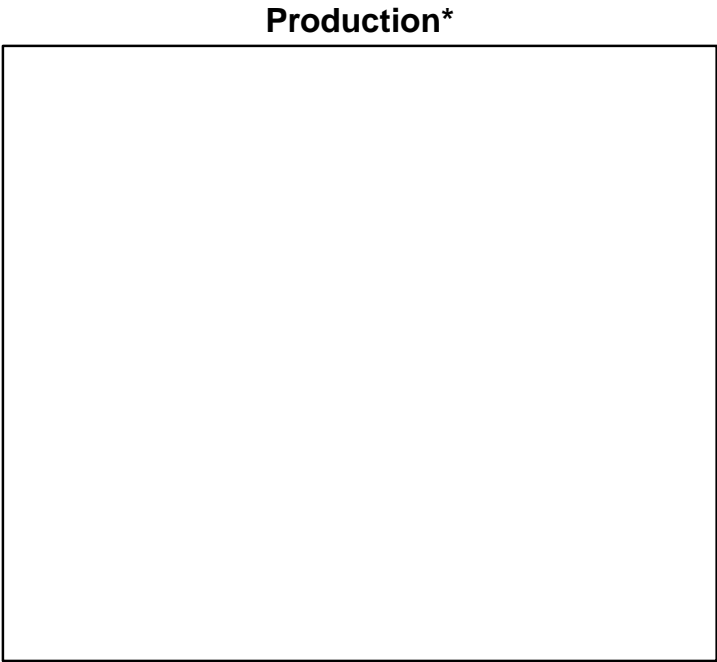
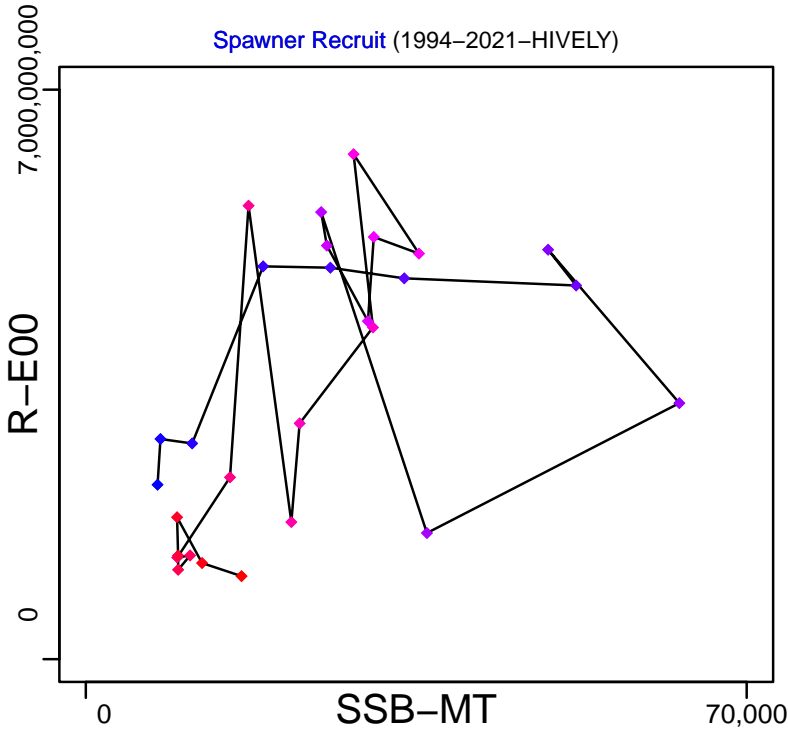
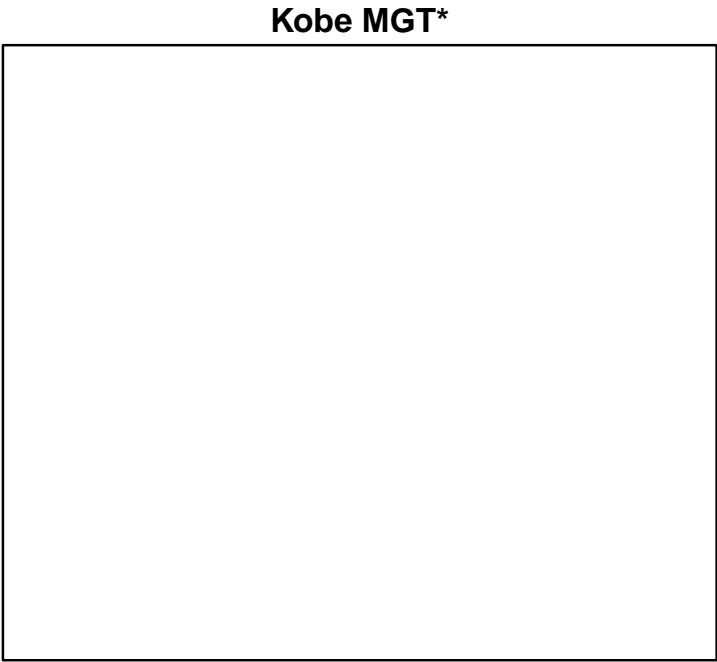
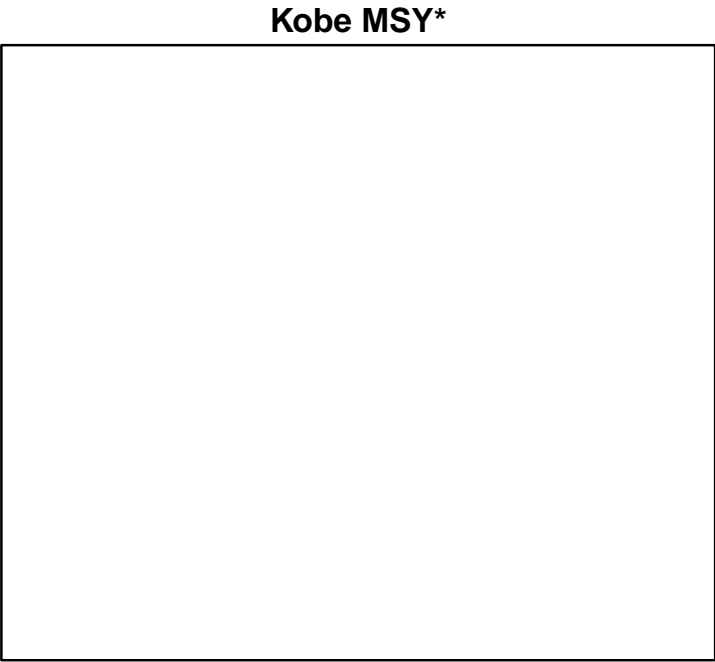


Whiting Black Sea [WHITMEDGSA29]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	SGSABS-WHITMEDGSA29-1994-2021-HIVELY
Area	Black Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Subregional Group on Stock Assessment for the Black Sea
Asmts in RAM	2021, 2011, 2014, 2016

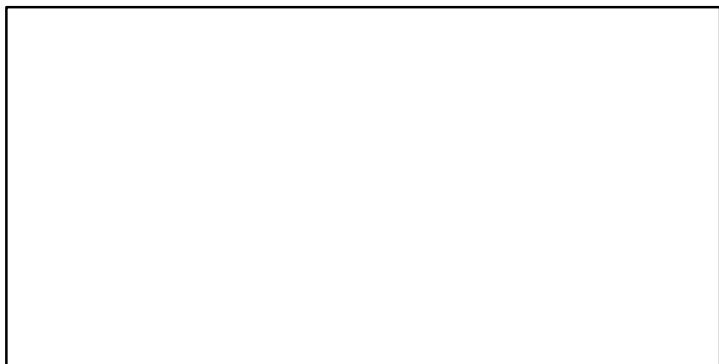
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.63
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.15
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.46
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	16,497	-	-
TN	-	-	-	-	-
R	R-E00	2021	1,020,114,000	-	0
F	F-1/yr	2021	1.685	-	-
ER	ER-ratio	2011	0.146	-	-
TC	TC-MT	2016	11,078		
TL	TL-MT	2021	10,039		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	2.317		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	11.234		
ER/ERmgt	-	-	-		

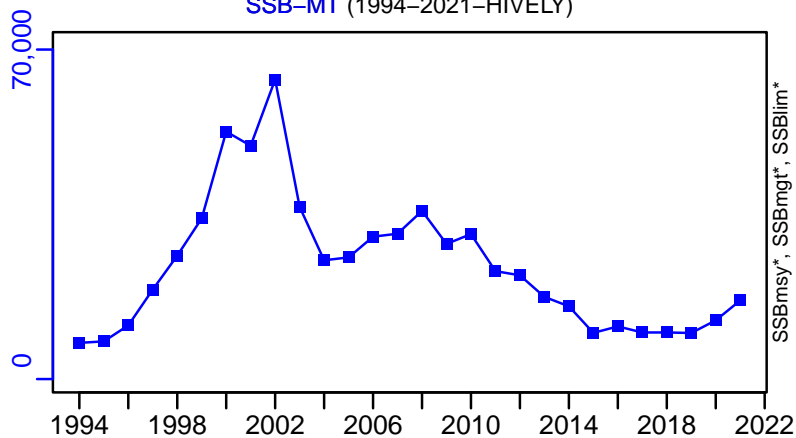


Whiting Black Sea [WHITMEDGSA29]

TB*



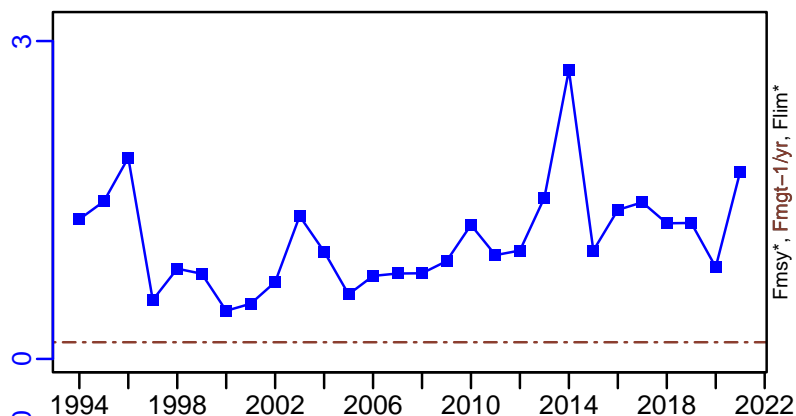
SSB-MT (1994–2021–HIVELY)



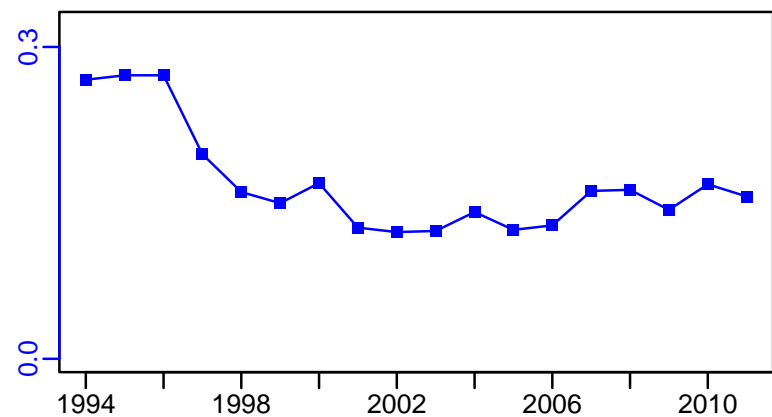
TN *



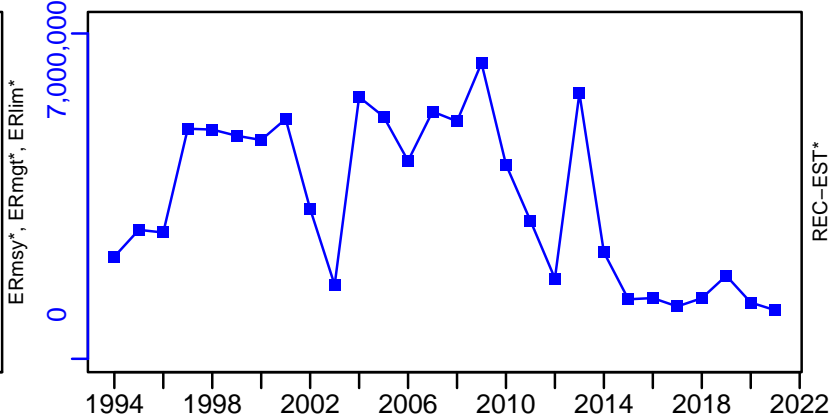
F-1/yr (1994–2021–HIVELY)



ER-ratio (1994–2011–HIVELY)

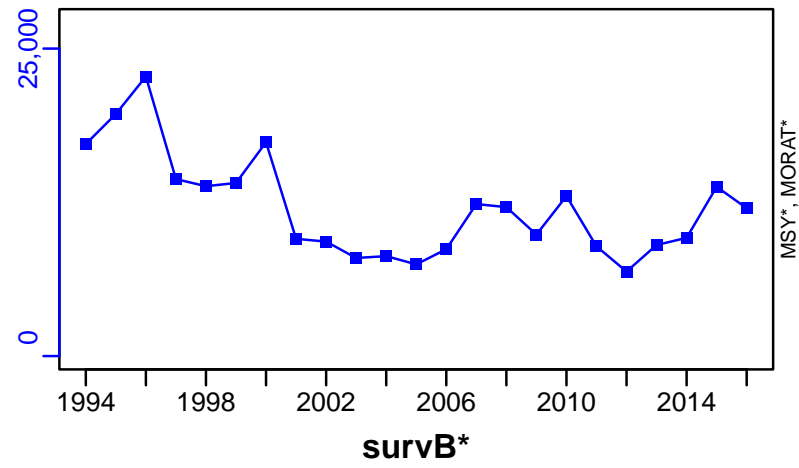


R-E00 (1994–2021–HIVELY)

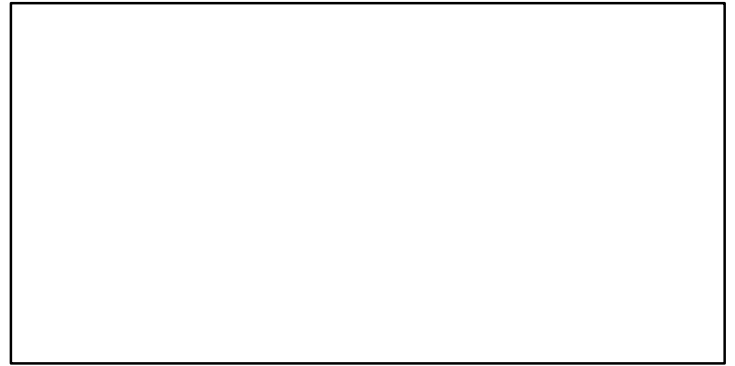


Whiting Black Sea [WHITMEDGSA29]

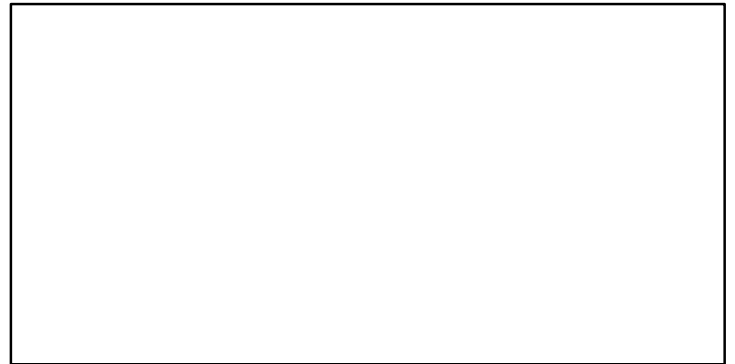
TC-MT, TL*, RecC* (1994-2016-MEDIMP2021-2)



TAC*, Cpair*, Cadv*



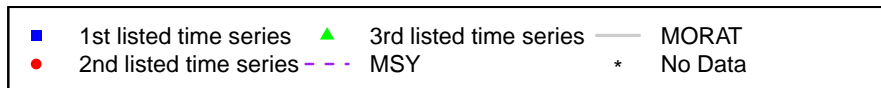
CPUE*



EFFORT*



CdivMSY*



Whiting ICES 4-7d [WHITNS-VIId]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITNS-VIId-1978-2023-ICESIMP2024
Area	ICES 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	2018, 2019, 2020, 2021, 2023, 2012, 2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.393
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.393
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	107,146
Flim	Flim-1/yr	2023	0.935
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	293,190	-	-
SSB	SSB-MT	2023	348,137	-	-
TN	-	-	-	-	-
R	R-E00	2023	14,923,014	-	0
F	F-1/yr	2023	0.101	-	-
ER	ER-calc-ratio	2019	0.096	-	-
TC	TC-MT	2023	27,907		
TL	TL-MT	2023	15,167		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.257		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.257		
ER/ERmgt	-	-	-		

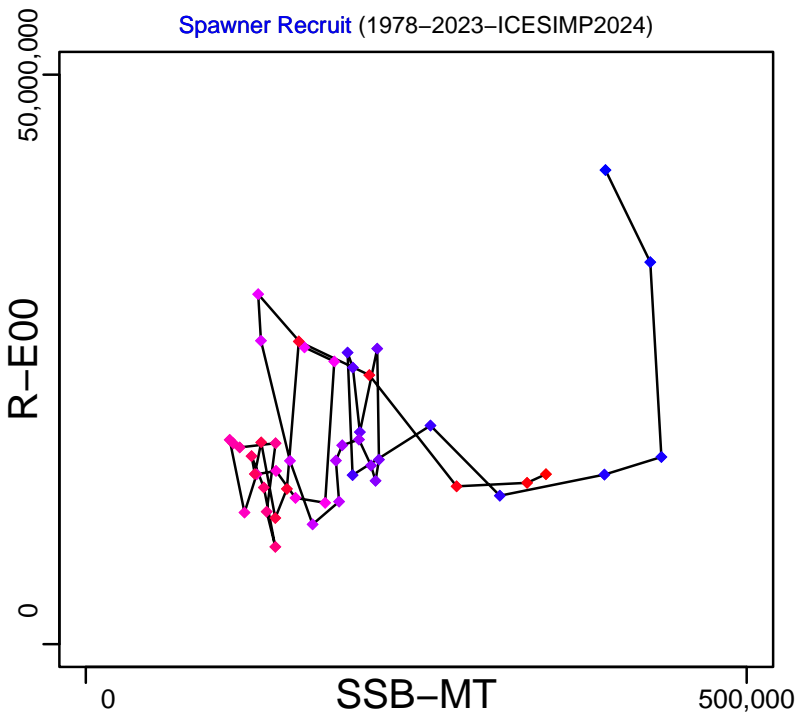
Kobe MSY*



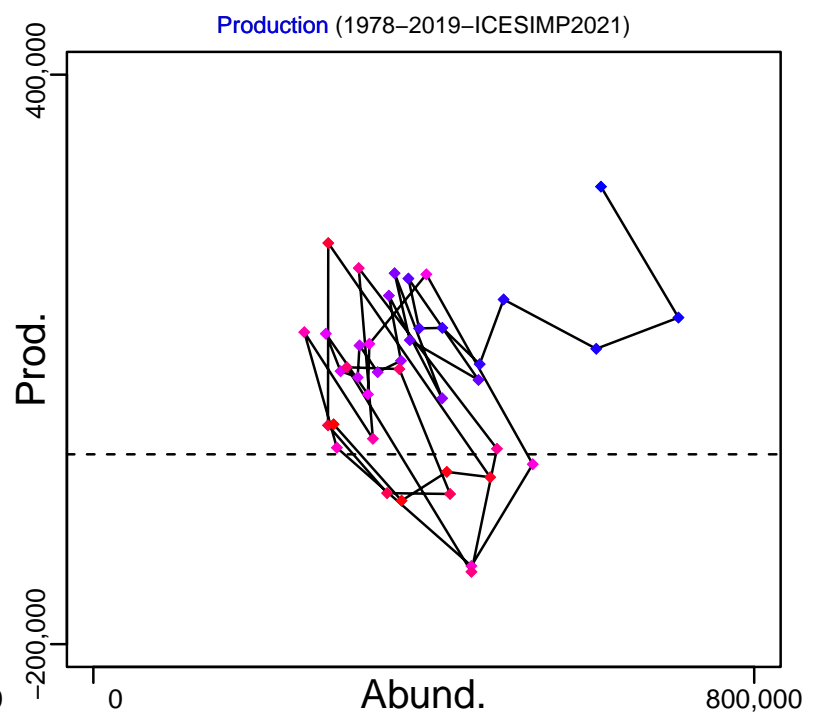
Kobe MGT*



Spawner Recruit (1978–2023–ICESIMP2024)



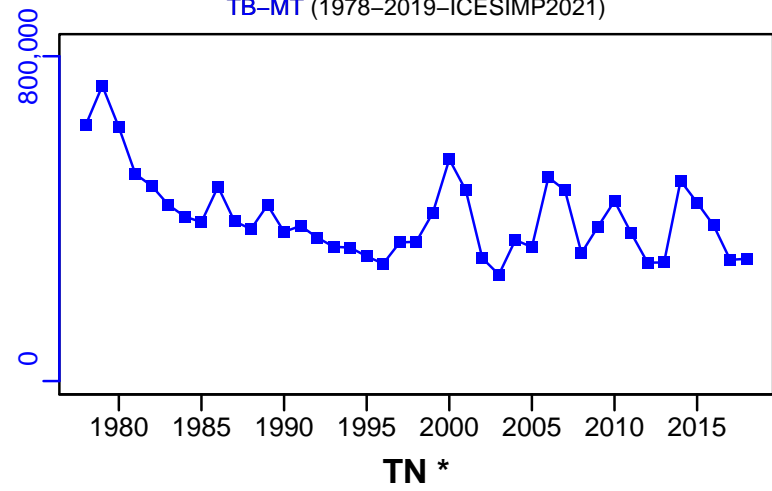
Production (1978–2019–ICESIMP2021)



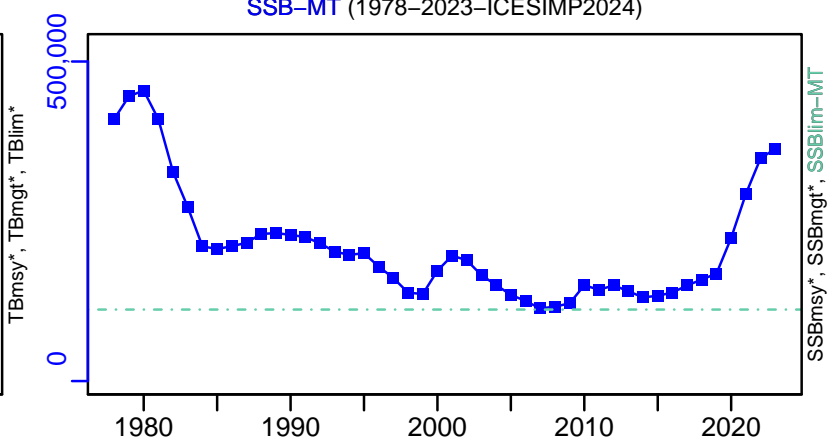
◆ Start Year ◆ End Year * No Data

Whiting ICES 4–7d [WHITNS-VIId]

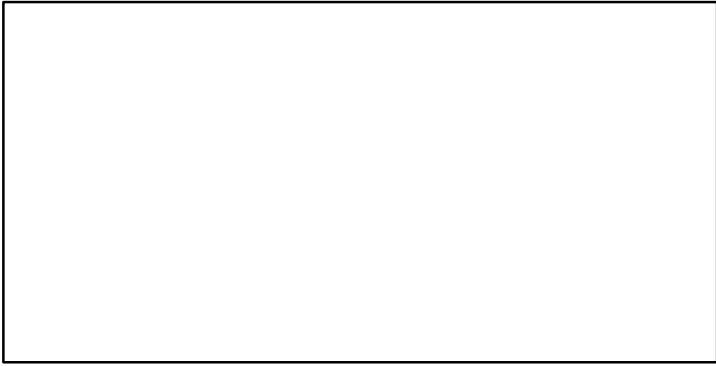
TB-MT (1978–2019–ICESIMP2021)



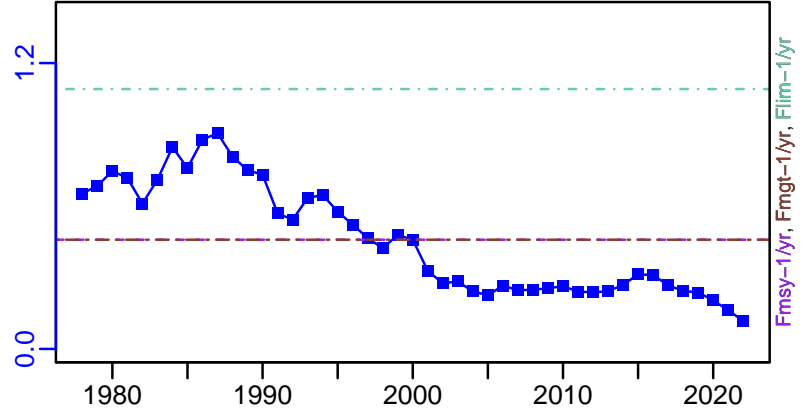
SSB-MT (1978–2023–ICESIMP2024)



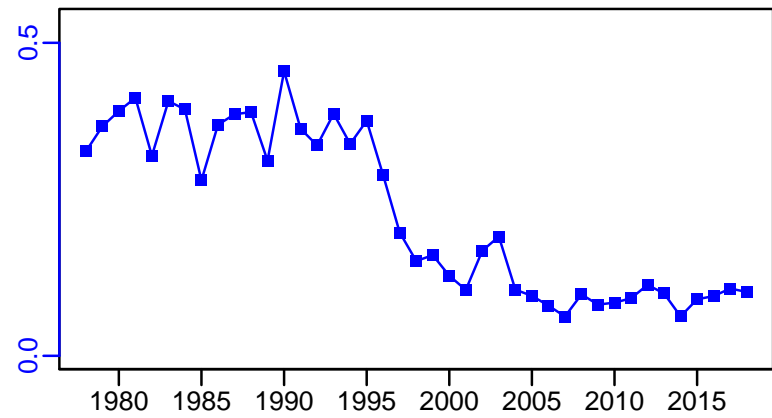
TN *



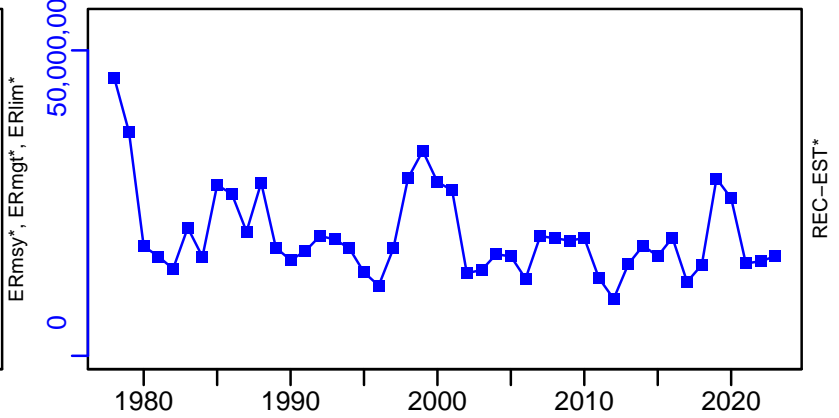
F-1/yr (1978–2023–ICESIMP2024)



ER-calc-ratio (1978–2019–ICESIMP2021)

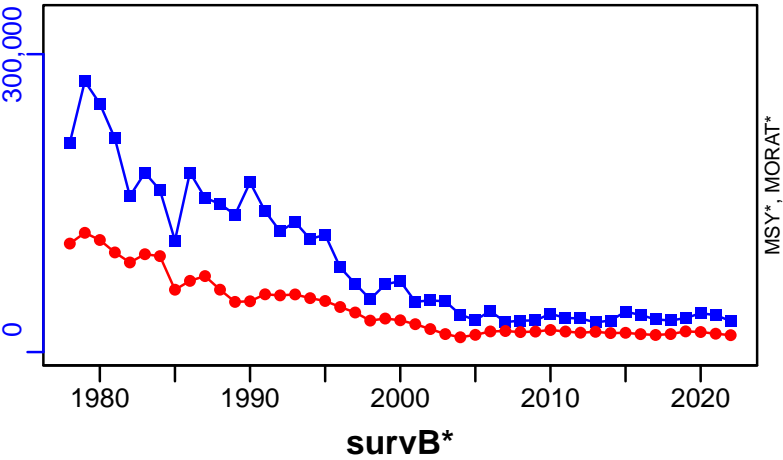


R-E00 (1978–2023–ICESIMP2024)



Whiting ICES 4–7d [WHITNS–VIIId]

TC–MT, TL–MT, RecC* (1978–2023–ICESIMP2024)



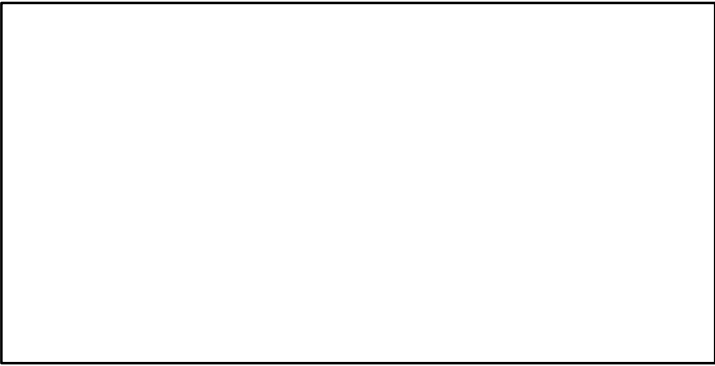
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

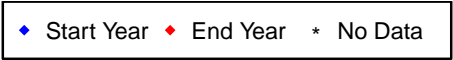
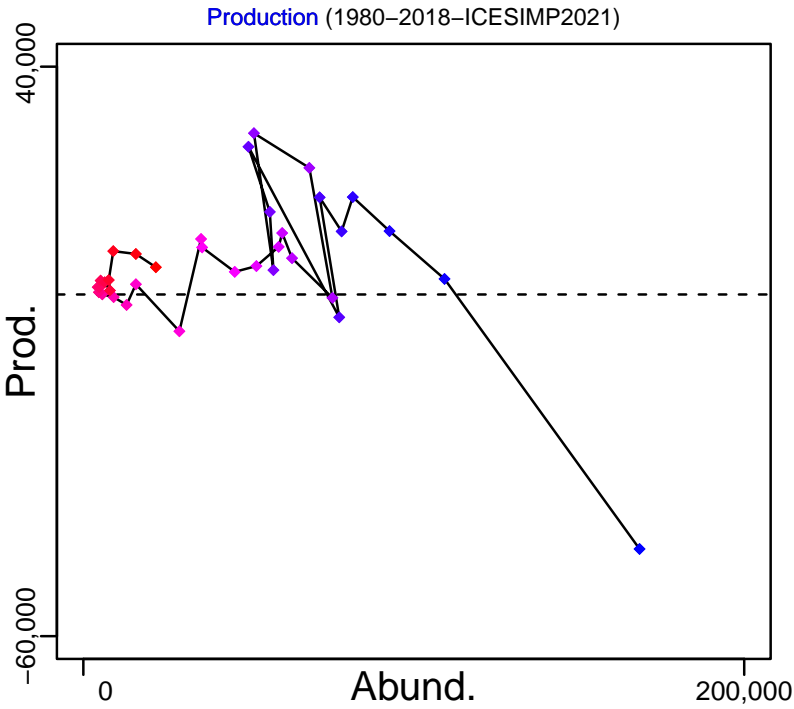
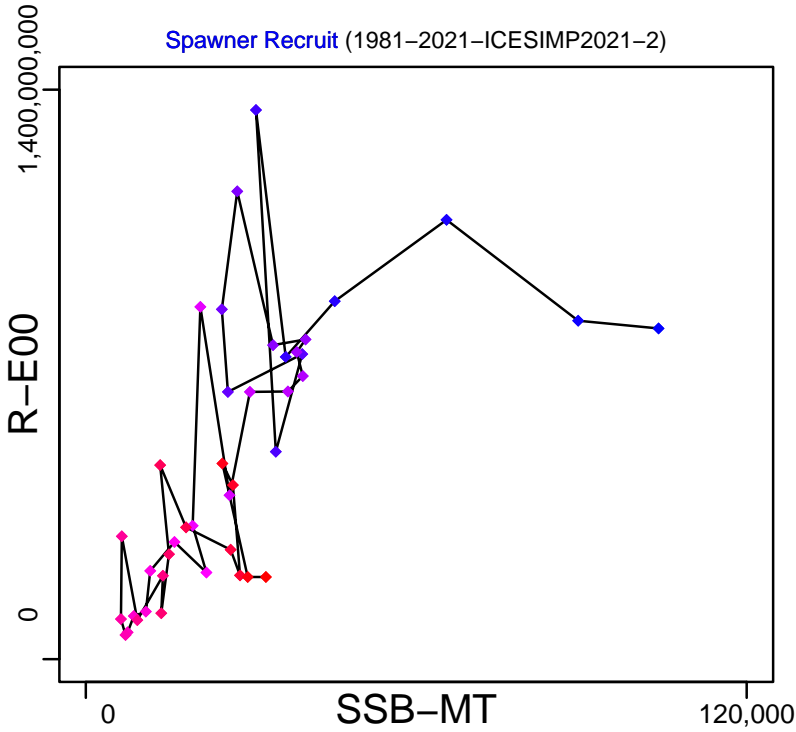
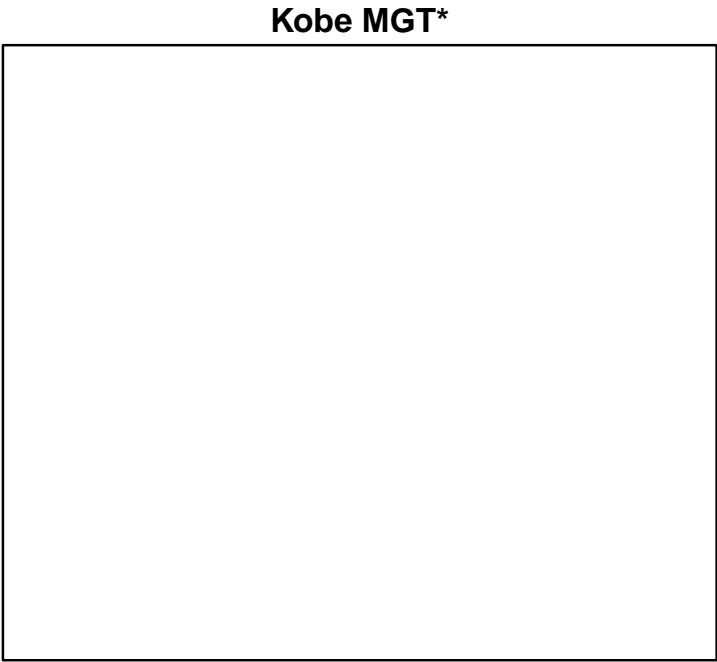
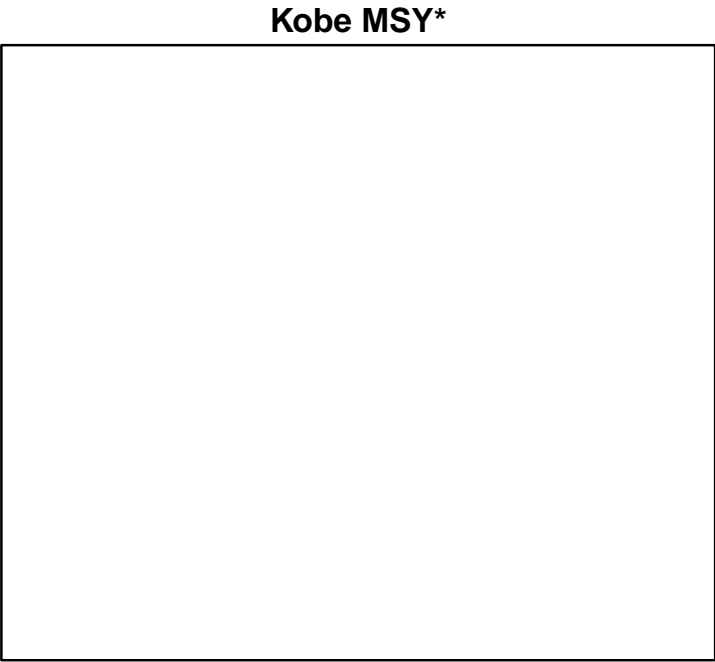


Whiting West of Scotland [WHITVla]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVla-1981-2021-ICESIMP2021-2
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2020, 2013, 2014, 2015, 2016, 2017, 2018, 2021, 2012

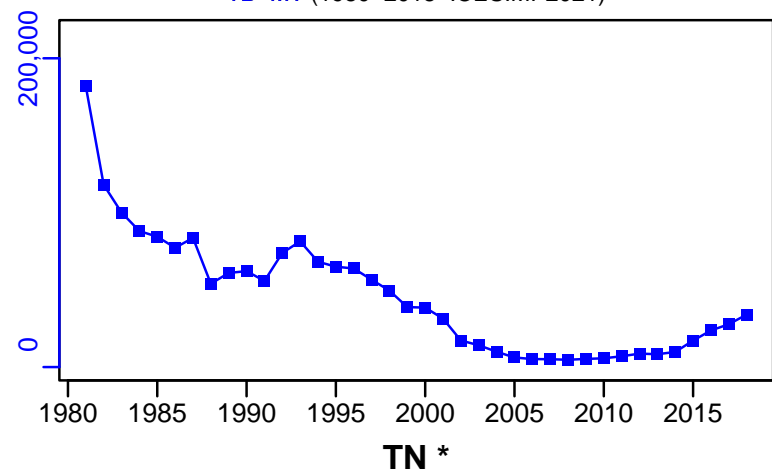
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.21
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	17,300
Flim	Flim-1/yr	2021	0.31
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	31,460	-	-
SSB	SSB-MT	2021	32,700	-	-
TN	-	-	-	-	-
R	R-E00	2021	2.02×10^8	-	0
F	F-1/yr	2021	0.065	-	-
ER	ER-calc-ratio	2018	0.054	-	-
TC	TC-MT	2021	1360		
TL	TL-MT	2021	544		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.31		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.31		
ER/ERmgt	-	-	-		

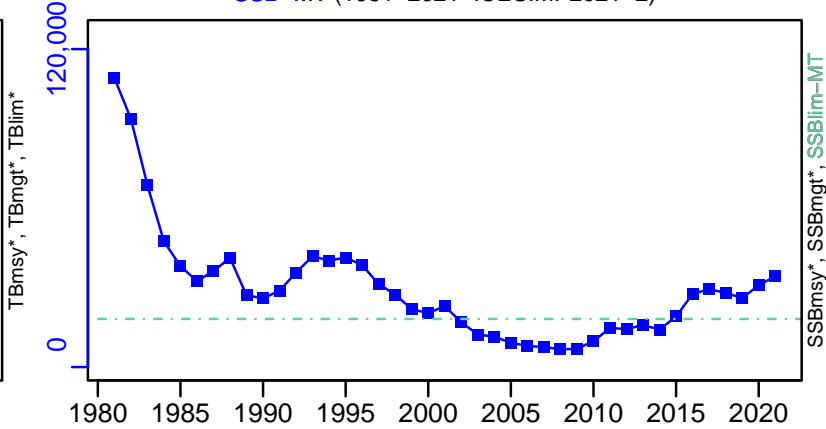


Whiting West of Scotland [WHITVla]

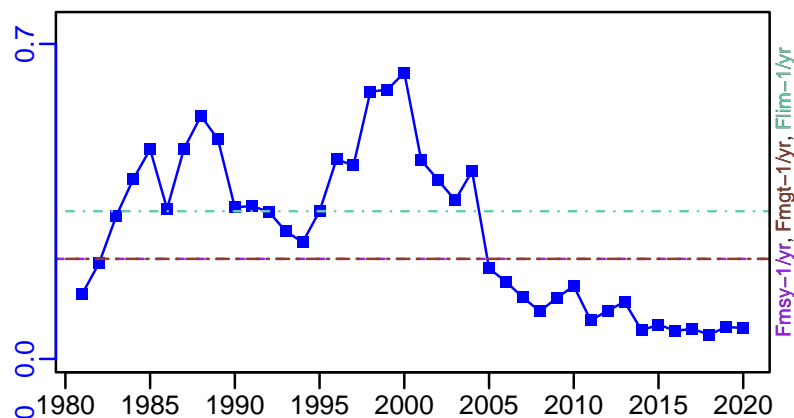
TB-MT (1980–2018–ICESIMP2021)



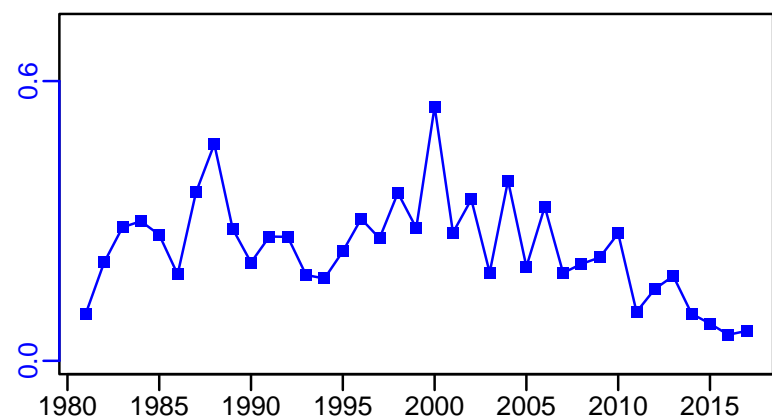
SSB-MT (1981–2021–ICESIMP2021–2)



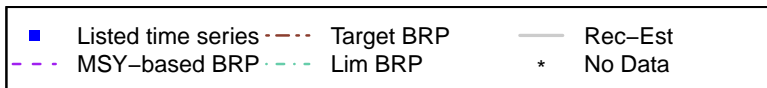
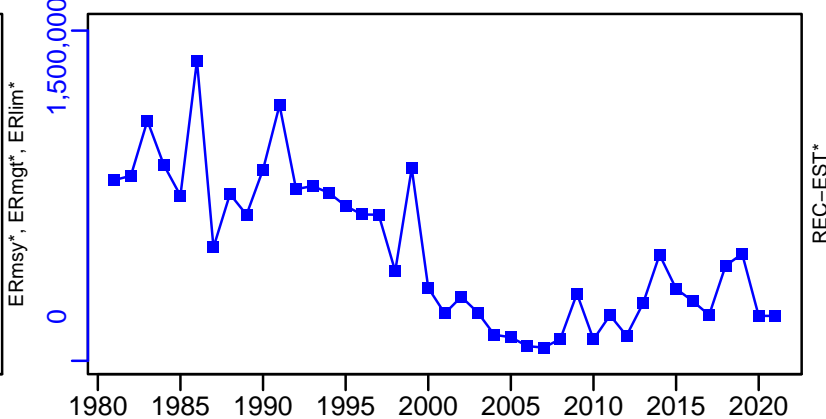
F-1/yr (1981–2021–ICESIMP2021–2)



ER-calc-ratio (1980–2018–ICESIMP2021)

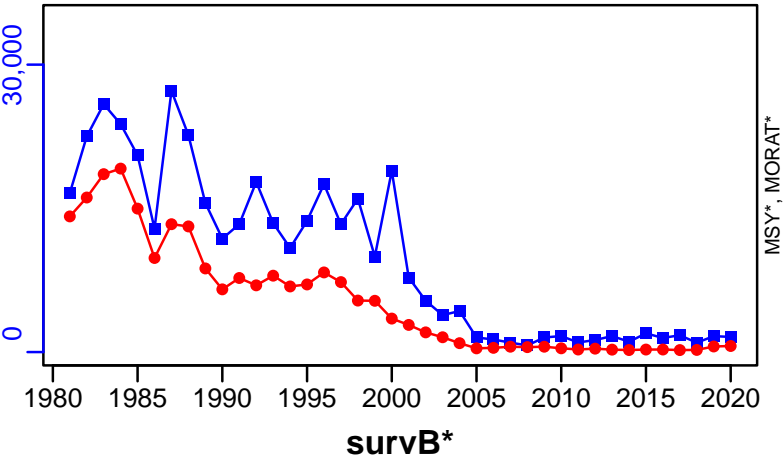


R-E00 (1981–2021–ICESIMP2021–2)



Whiting West of Scotland [WHITVla]

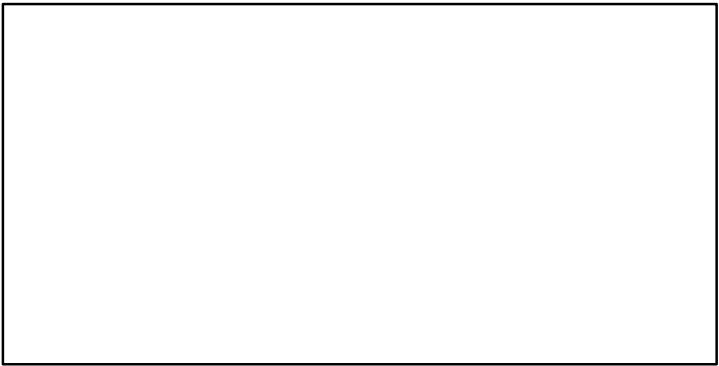
TC-MT, TL-MT, RecC* (1981-2021-ICESIMP2021-2)



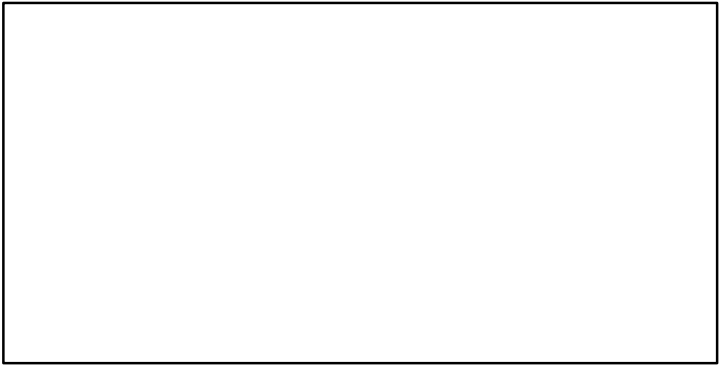
TAC*, Cpair*, Cadv*



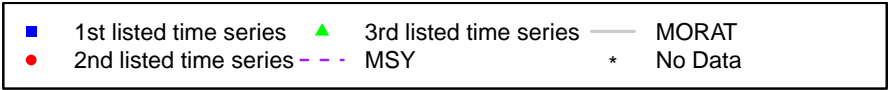
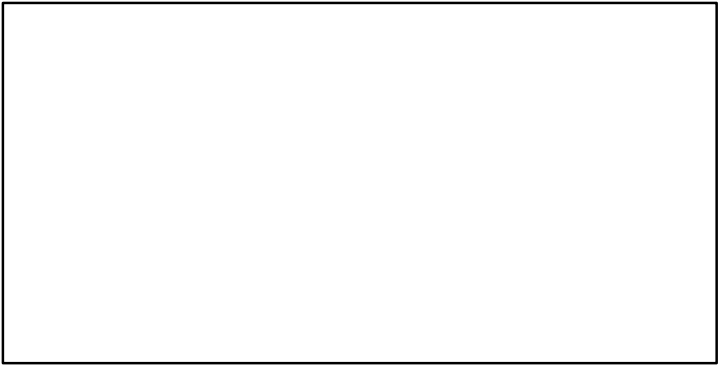
CPUE*



EFFORT*



CdivMSY*



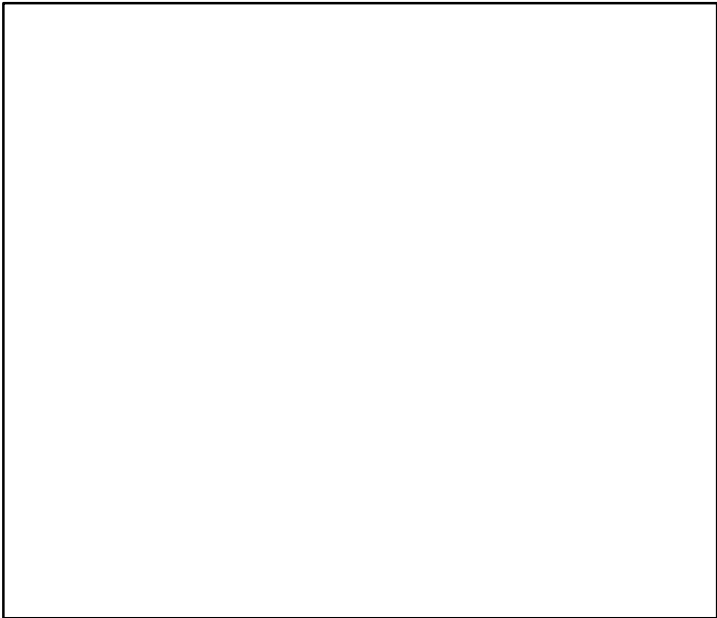
Whiting Rockall Bank [WHITVib]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVib-1961-2020-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	2014, 2017, 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	38		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

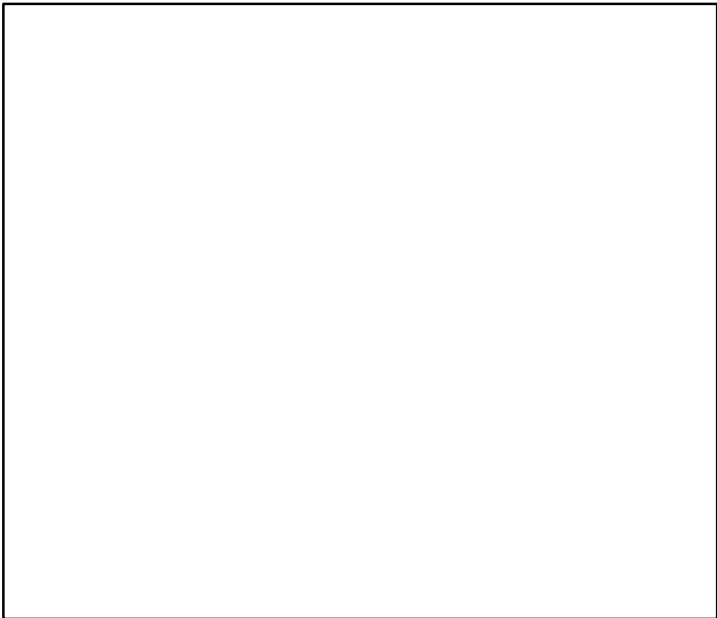
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Whiting Rockall Bank [WHITVlb]

TB*



SSB*



TN *



F*



ER*



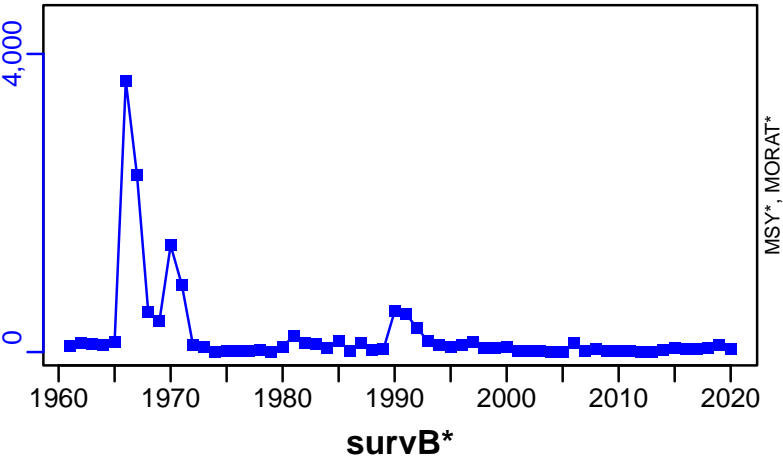
Recruits*



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

Whiting Rockall Bank [WHITVlb]

TL-MT, TC*, RecC* (1961-2020-ICESIMP2021-2)



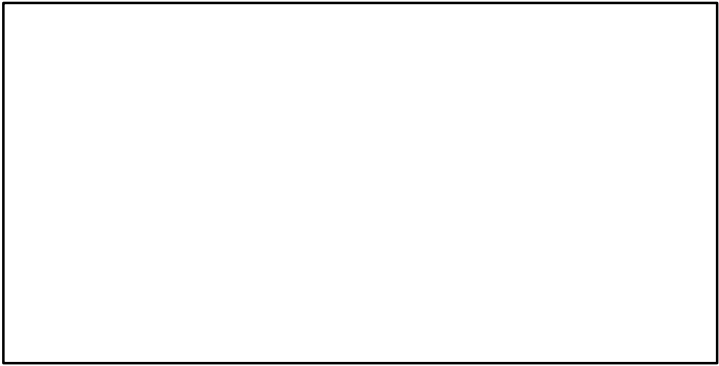
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Whiting Irish Sea [WHITVIIa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIa-1980-2021-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	2016, 2017, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.219
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.219
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	10,000
Flim	Flim-1/yr	2021	0.371
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2175	-	-
SSB	SSB-MT	2021	1390	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.2×10^8	-	0
F	F-1/yr	2021	0.759	-	-
ER	ER-calc-ratio	2019	0.413	-	-
TC	TC-MT	2021	1120		
TL	TL-MT	2021	88		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	3.468		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	3.468		
ER/ERmgt	-	-	-		

Whiting Irish Sea [WHITVIlA]

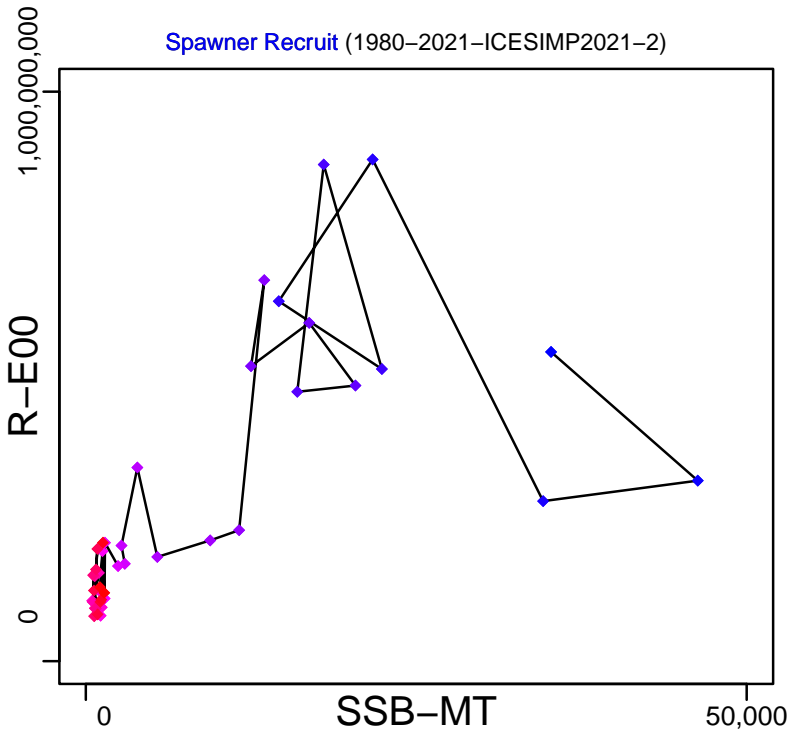
Kobe MSY*



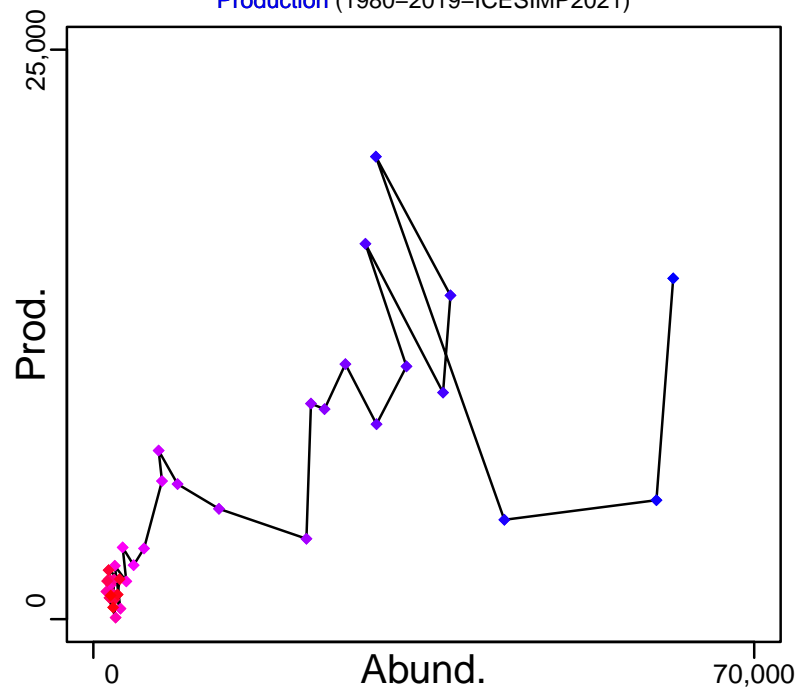
Kobe MGT*



Spawner Recruit (1980–2021–ICESIMP2021–2)



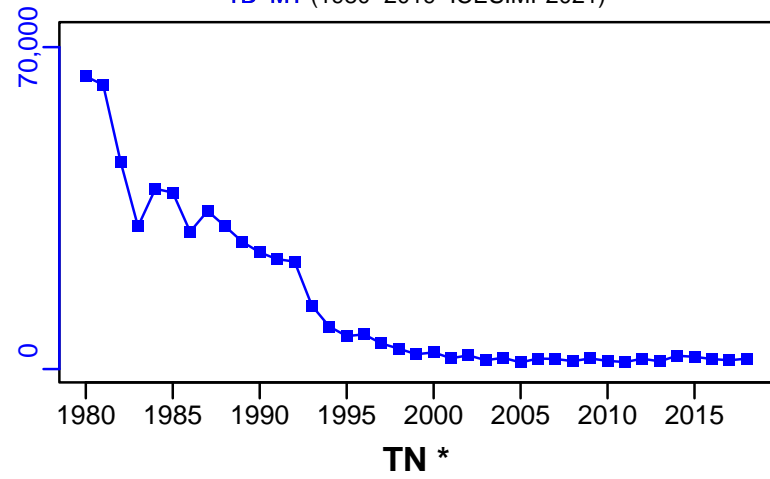
Production (1980–2019–ICESIMP2021)



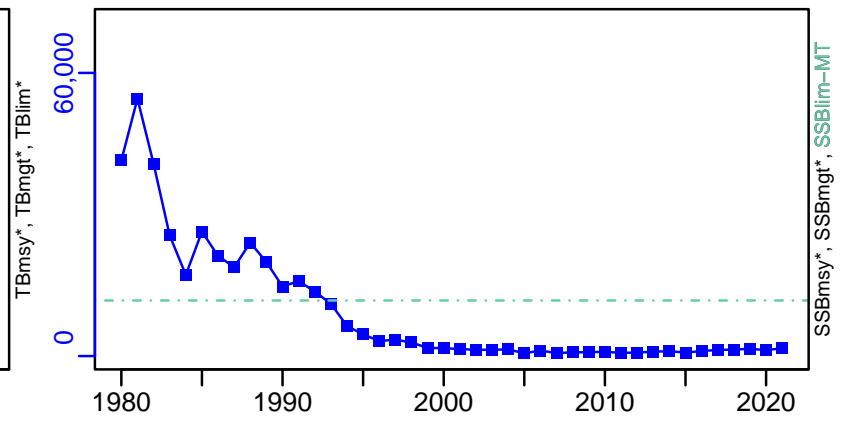
◆ Start Year ◆ End Year * No Data

Whiting Irish Sea [WHITVila]

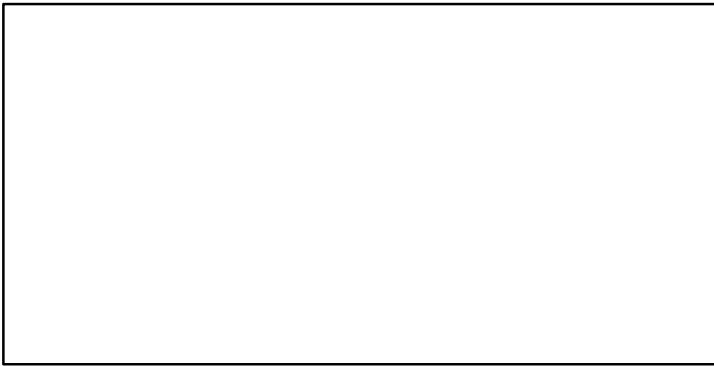
TB-MT (1980–2019–ICESIMP2021)



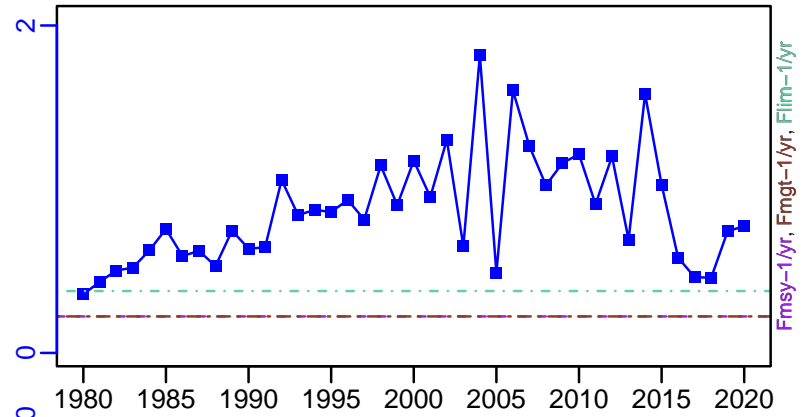
SSB-MT (1980–2021–ICESIMP2021–2)



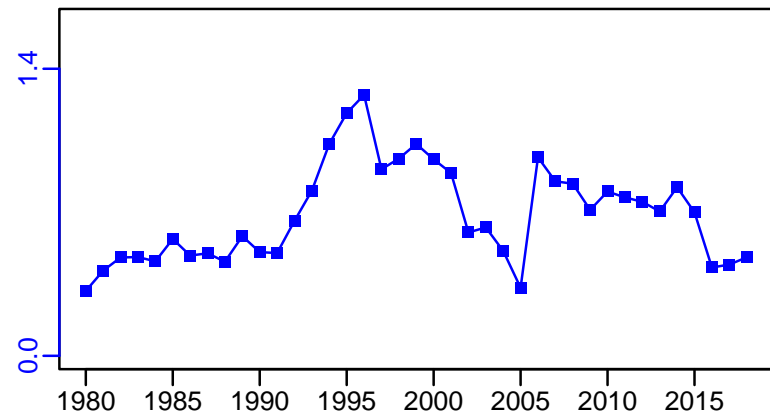
TN *



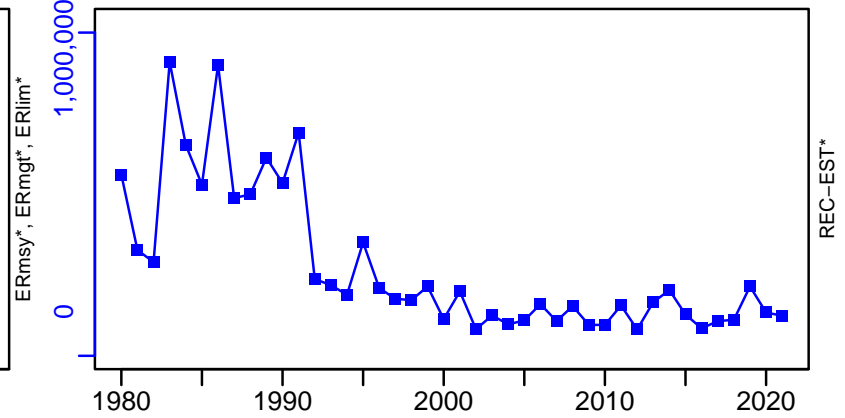
F-1/yr (1980–2021–ICESIMP2021–2)



ER-calc-ratio (1980–2019–ICESIMP2021)

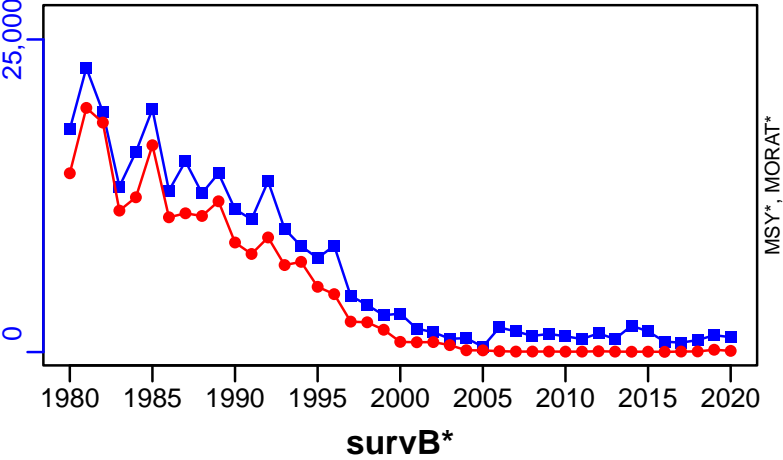


R-E00 (1980–2021–ICESIMP2021–2)



Whiting Irish Sea [WHITVIIa]

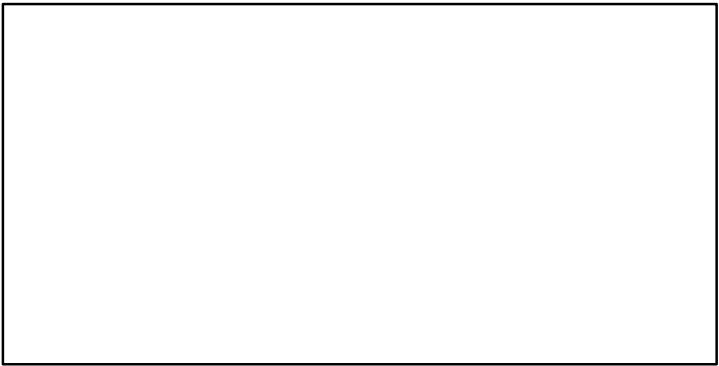
TC-MT, TL-MT, RecC* (1980-2021-ICESIMP2021-2)



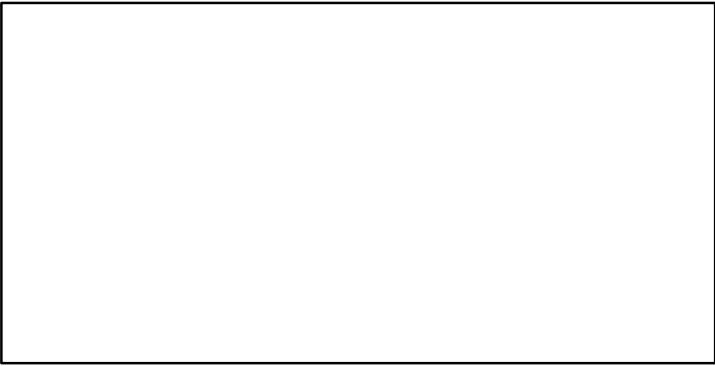
TAC*, Cpair*, Cadv*



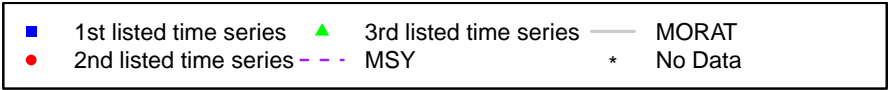
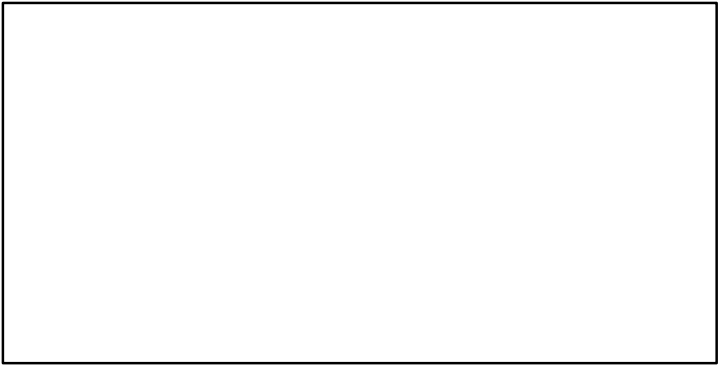
CPUE*



EFFORT*



CdivMSY*



Whiting Celtic Sea [WHITVIIbce-k]

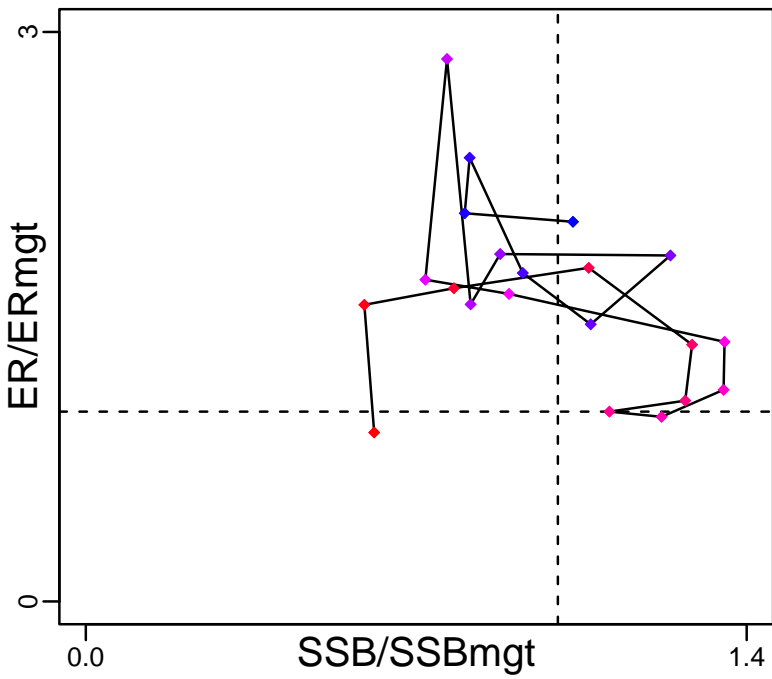
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIbce-k-1999-2023-ICESIMP2024
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020, 2022, 2023, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.375
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	47,963
Fmgt	Fmgt-1/yr	2023	0.375
ERmgt	ERmgt-ratio	2020	0.4
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	21,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	36,571
Flim	Flim-1/yr	2023	0.64
ERlim	ERlim-ratio	2020	0.89

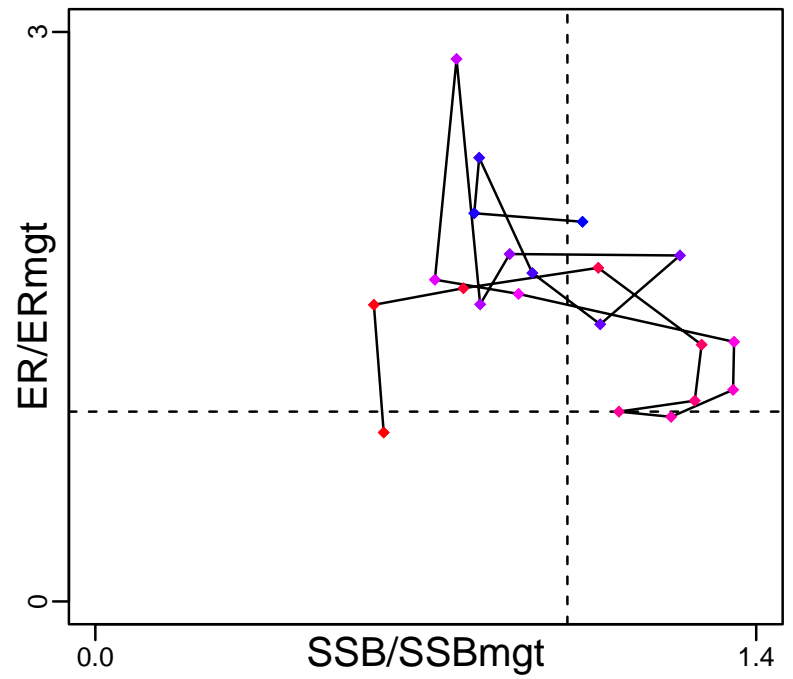
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	95,300	Both	-
SSB	SSB-MT	2023	29,740	-	-
TN	-	-	-	-	-
R	R-E00	2023	387,753	-	0
F	F-1/yr	2023	0.659	-	2 to 5
ER	ER-ratio	2020	0.356	-	-
TC	TC-MT	2023	7577		
TL	TL-MT	2023	5115		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	1.757		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.646		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.757		
ER/ERmgt	-	-	-		

Whiting Celtic Sea [WHITVIIbce-k]

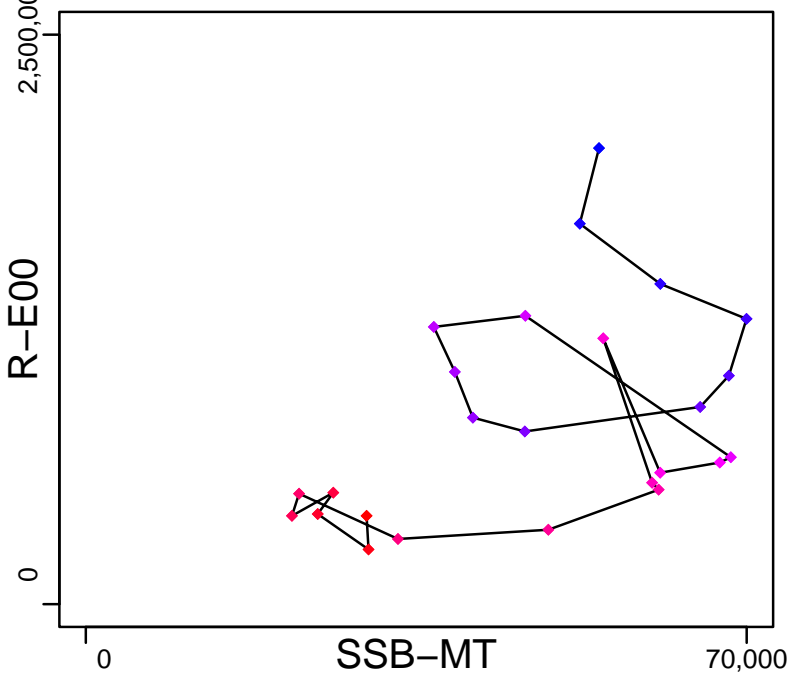
Kobe MSYpref (1999–2020–ICESIMP2021–2)



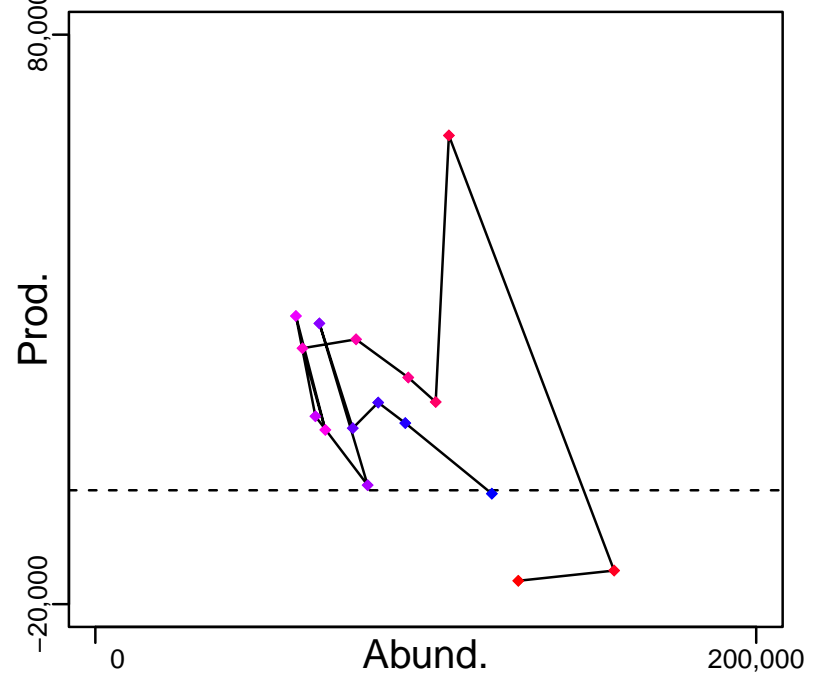
Kobe MGTpref (1999–2020–ICESIMP2021–2)



Spawner Recruit (1999–2023–ICESIMP2024)



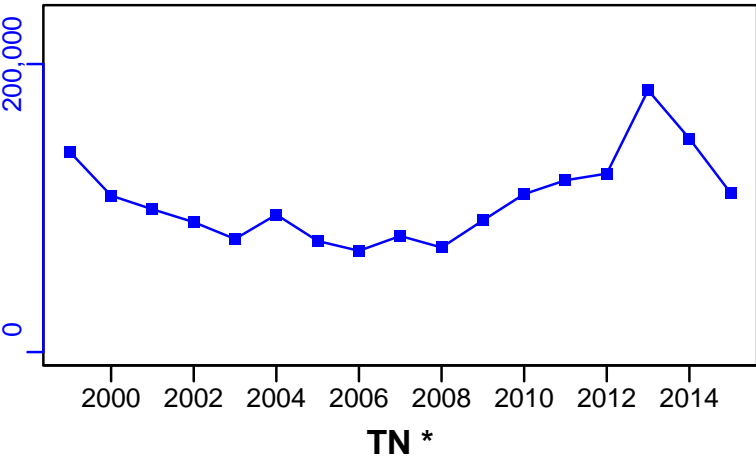
Production (1999–2016–ICESIMP2016)



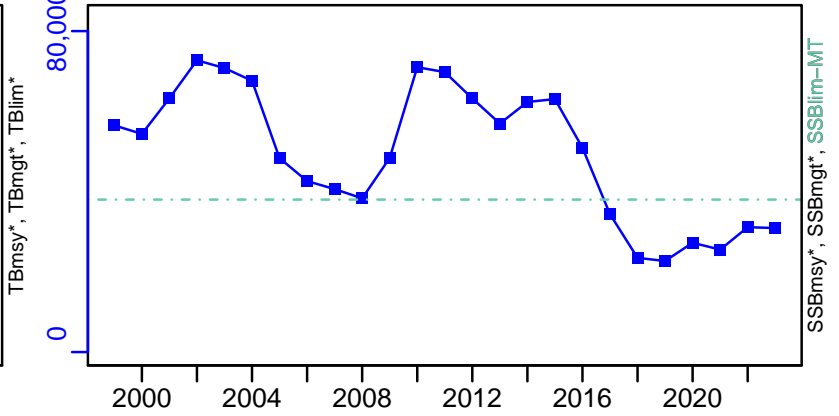
◆ Start Year ◆ End Year * No Data

Whiting Celtic Sea [WHITVIIbce-k]

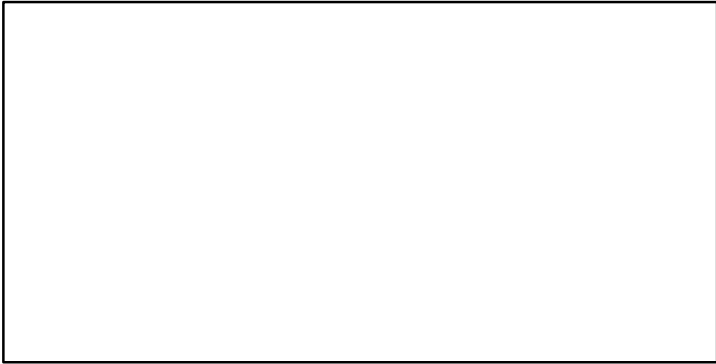
TB-MT (1999–2016–ICESIMP2016)



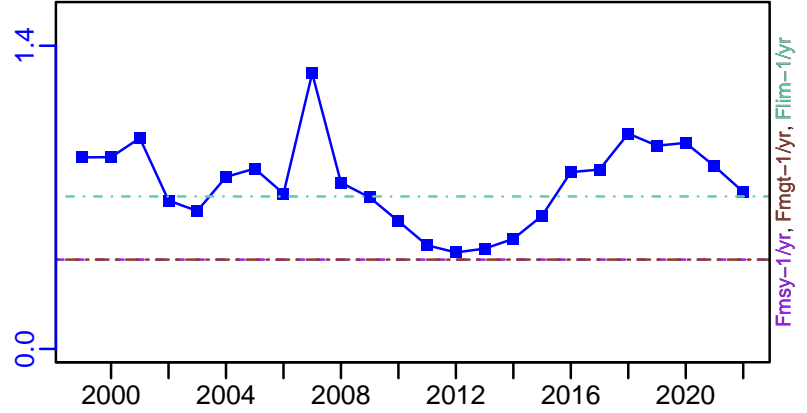
SSB-MT (1999–2023–ICESIMP2024)



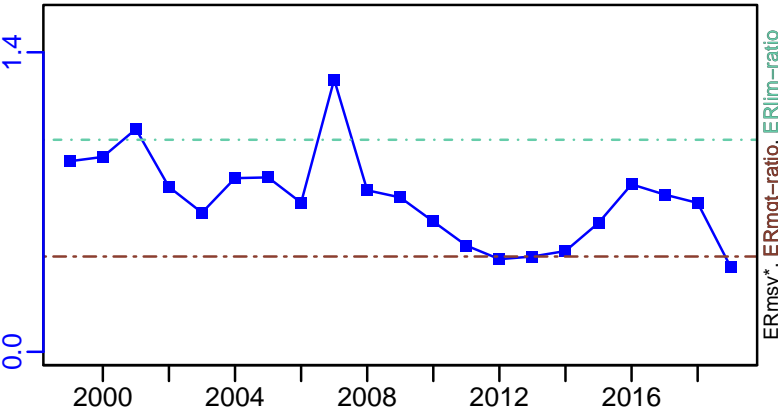
TN *



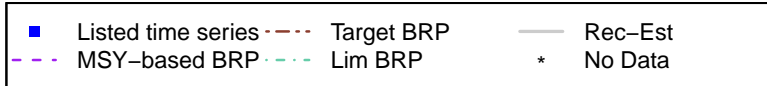
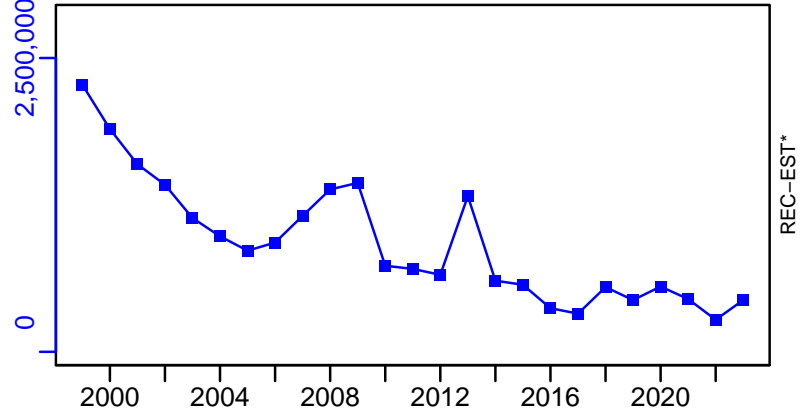
F-1/yr (1999–2023–ICESIMP2024)



ER-ratio (1999–2020–ICESIMP2021-2)

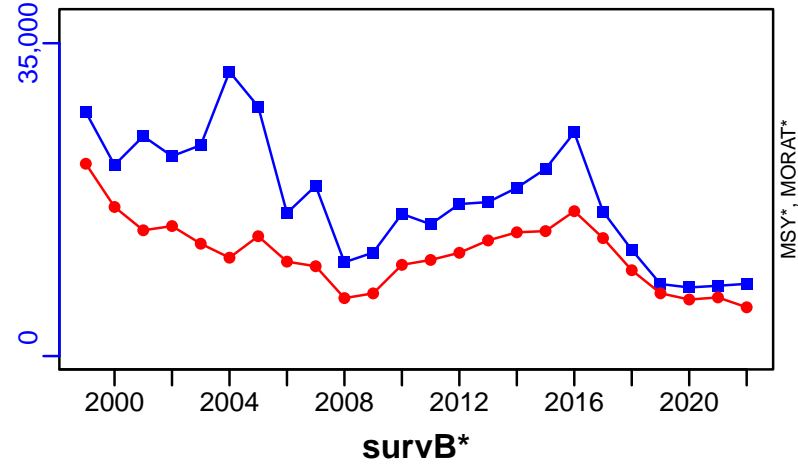


R-E00 (1999–2023–ICESIMP2024)



Whiting Celtic Sea [WHITVIIbce-k]

TC-MT, TL-MT, RecC* (1999–2023–ICESIMP2024)



TAC*, Cpair*, Cadv*



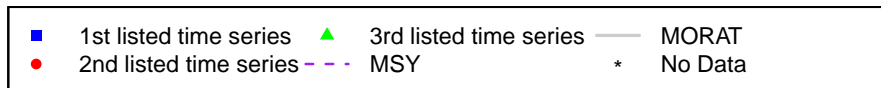
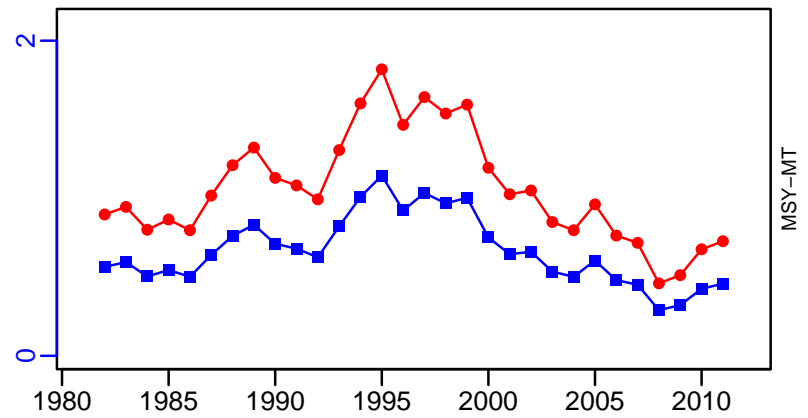
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1981–2012–CHING)



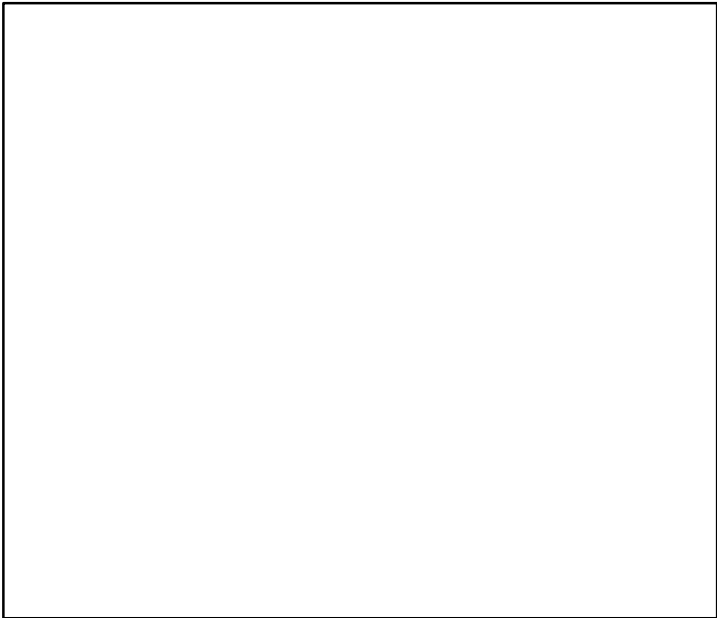
Whiting ICES 8-9a [WHITVIII-IXa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGBIE-WHITVIII-IXa-1994-2020-ICESIMP2021-2
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, 2016, 2018, 2020

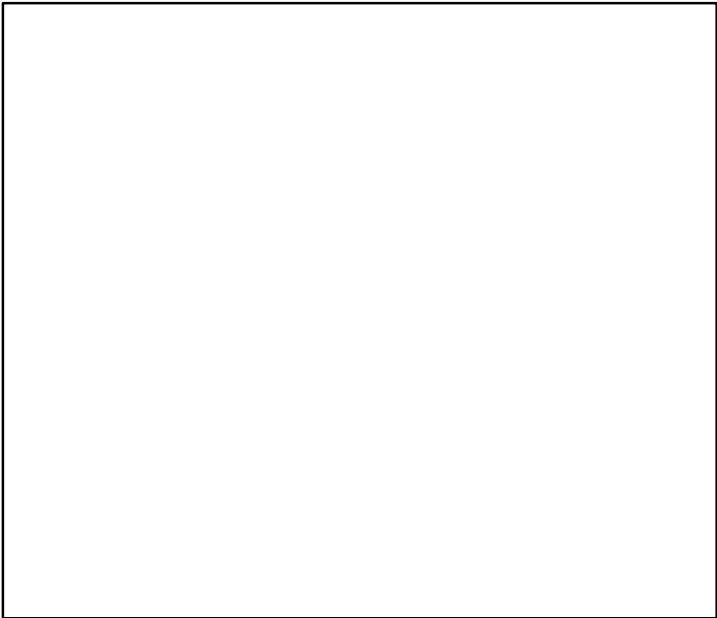
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	1420		
TL	TL-MT	2020	1120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

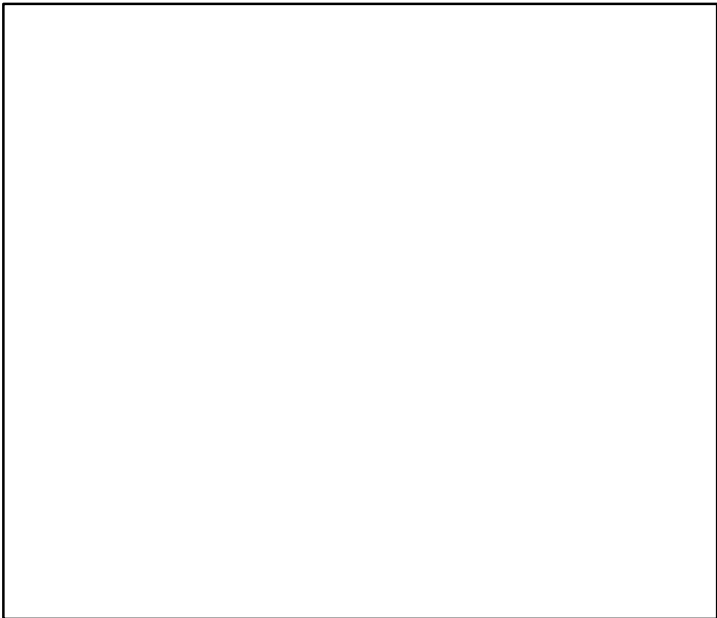
Kobe MSY*



Kobe MGT*



Spawner Recruit*

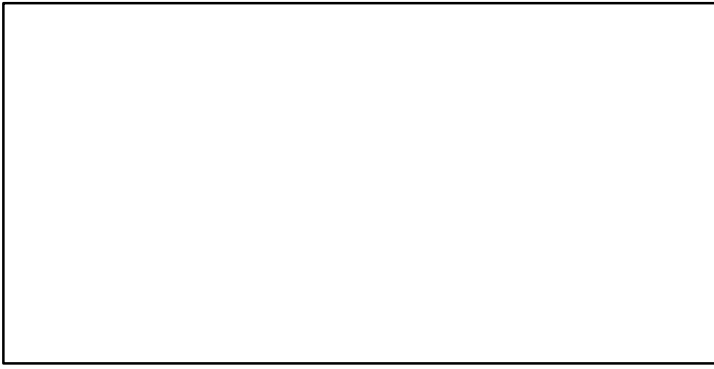


Production*

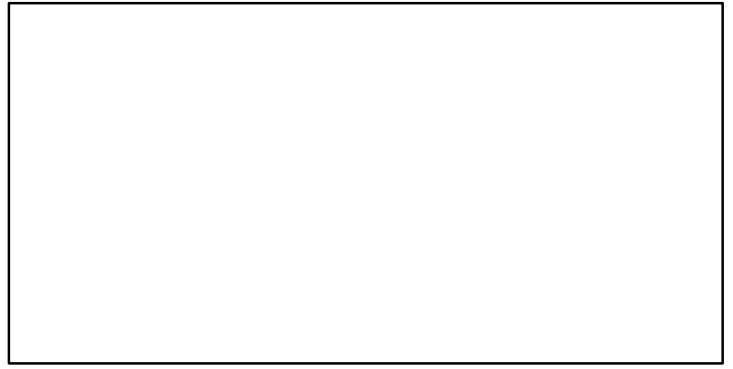


◆ Start Year ◆ End Year * No Data

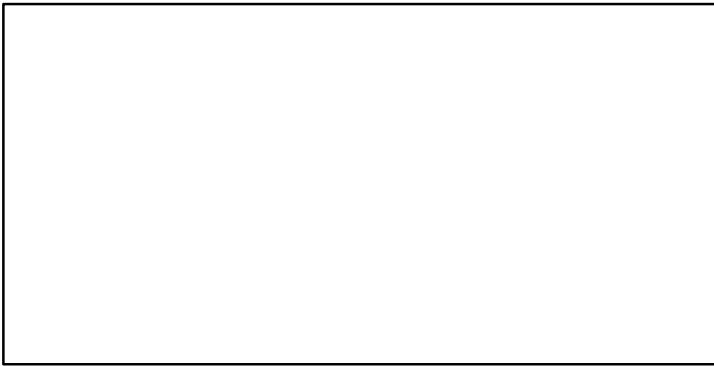
TB*



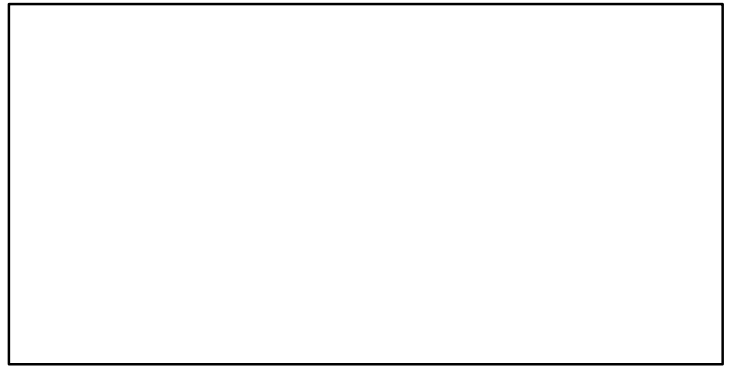
SSB*



TN *



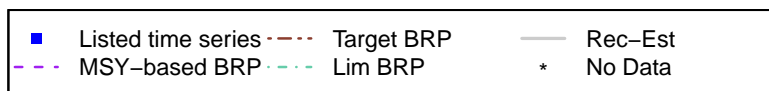
F*



ER*

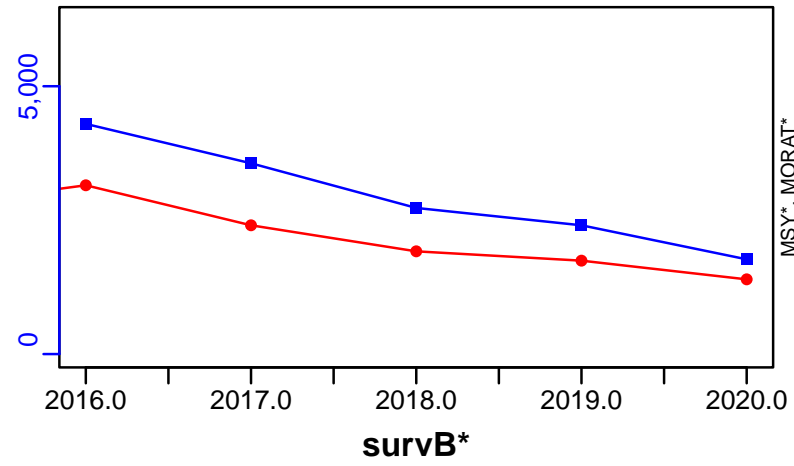


Recruits*

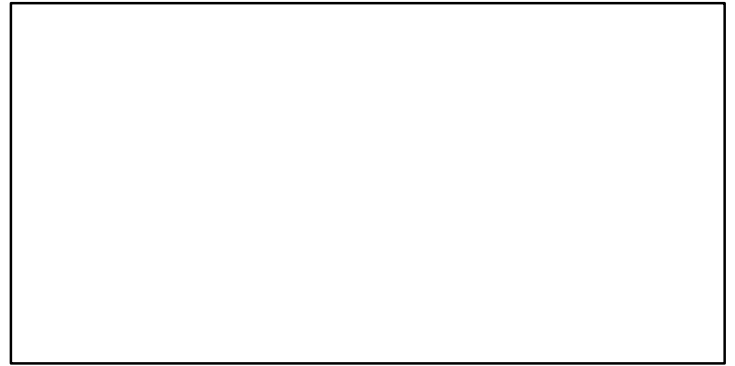


Whiting ICES 8–9a [WHITVIII–IXa]

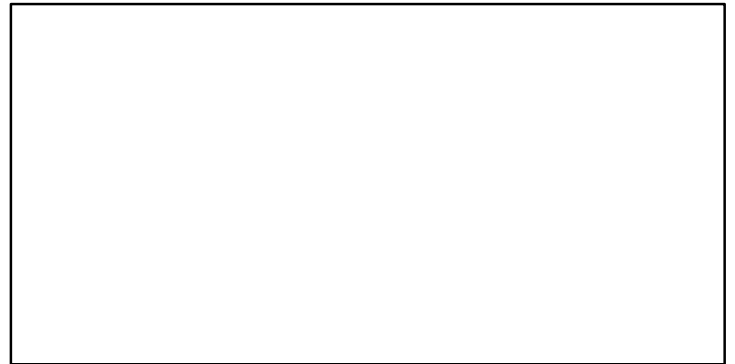
TC–MT, TL–MT, RecC* (1994–2020–ICESIMP2021–2)



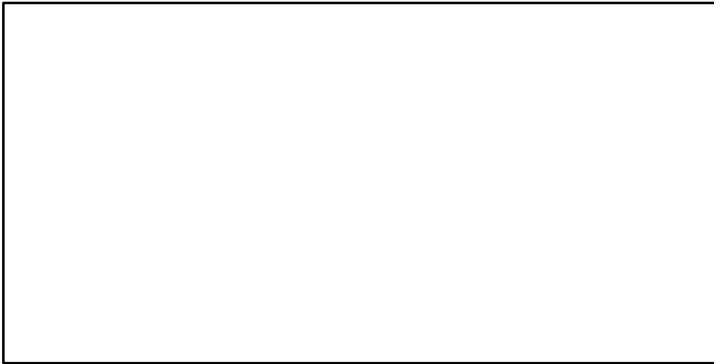
TAC*, Cpair*, Cadv*



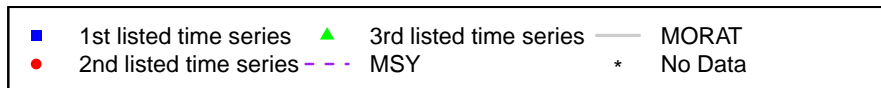
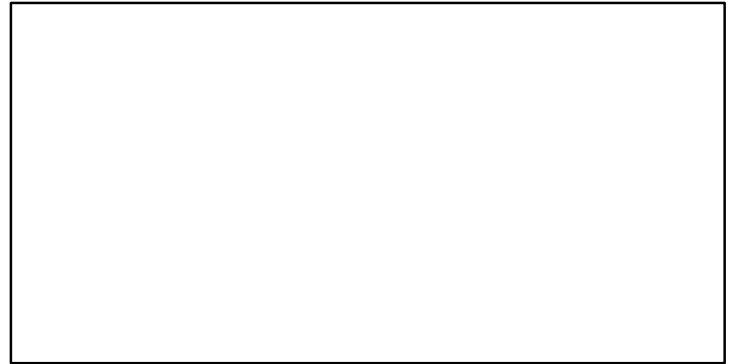
CPUE*



EFFORT*



CdivMSY*



Walleye pollock Aleutian Islands [WPOLLAI]

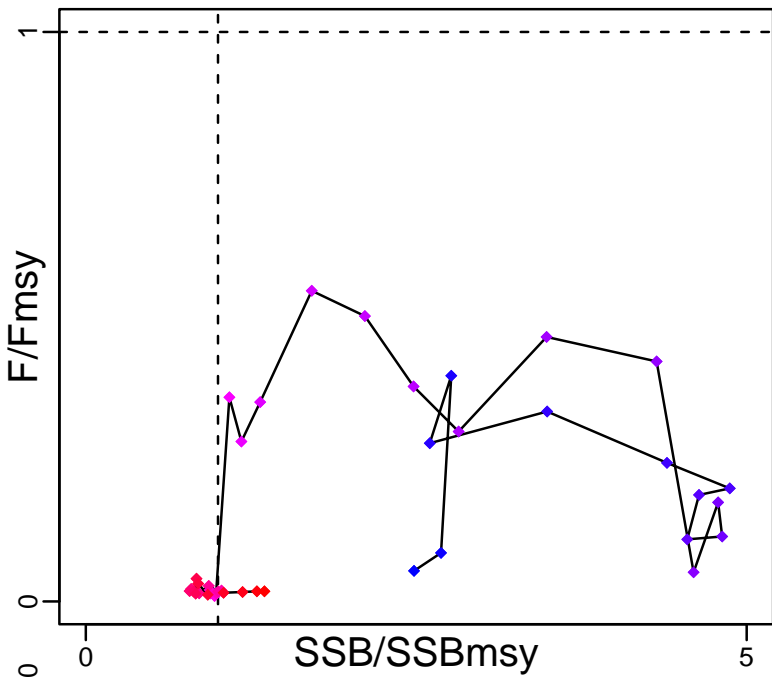
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLAI-1978-2021-SISIMP2022
Area	Aleutian Islands
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2013, 2015, 2016, 2018, 2018, 2020, 2021

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

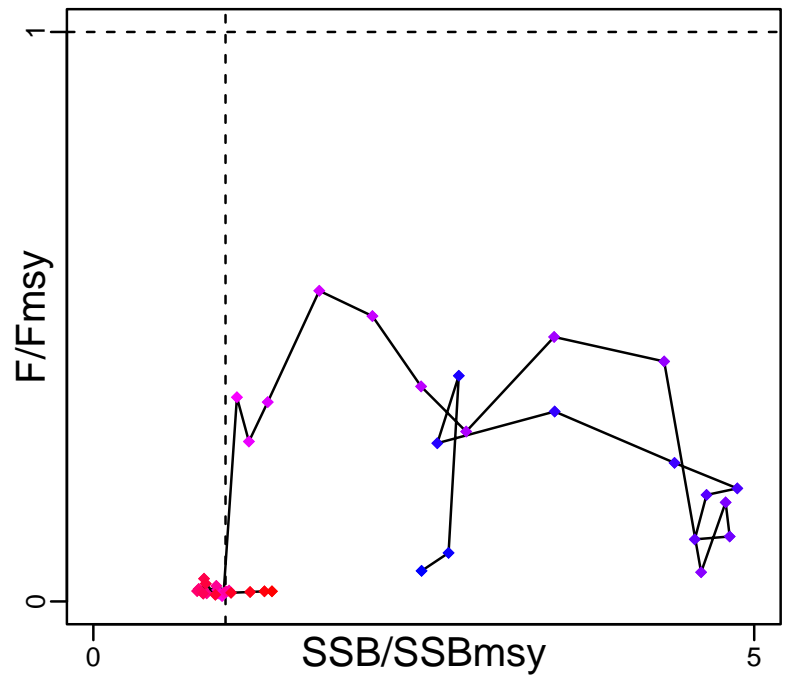
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	216,000	-	1+
SSB	SSB-MT	2021	89,906	-	-
TN	-	-	-	-	-
R	R-E00	2021	1×10^8	-	0
F	F-1/yr	2021	0.007	-	-
ER	ER-calc-ratio	2015	0.012	-	-
TC	TC-MT	2021	3205		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.385		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Walleye pollock Aleutian Islands [WPOLLAI]

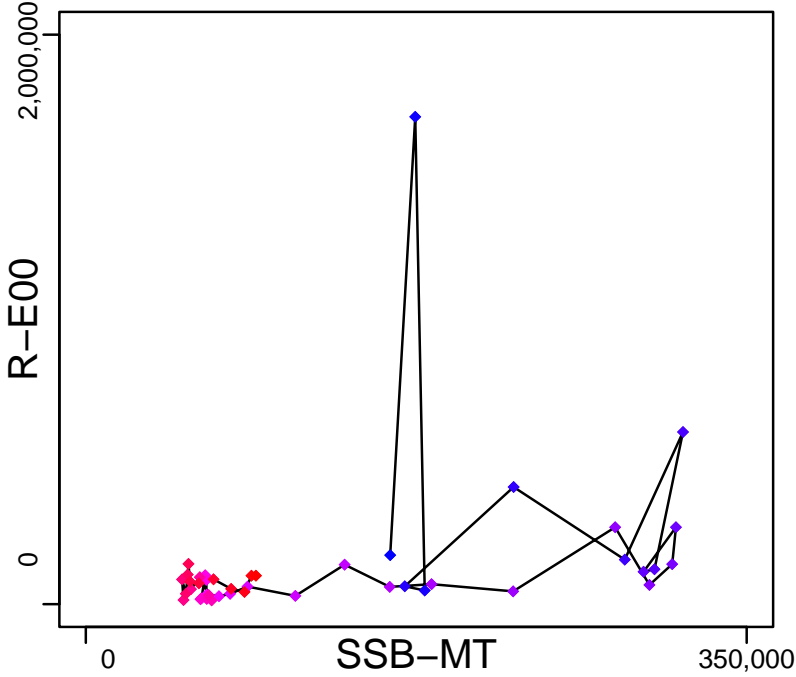
Kobe MSYpref (1978–2021–SISIMP2022)



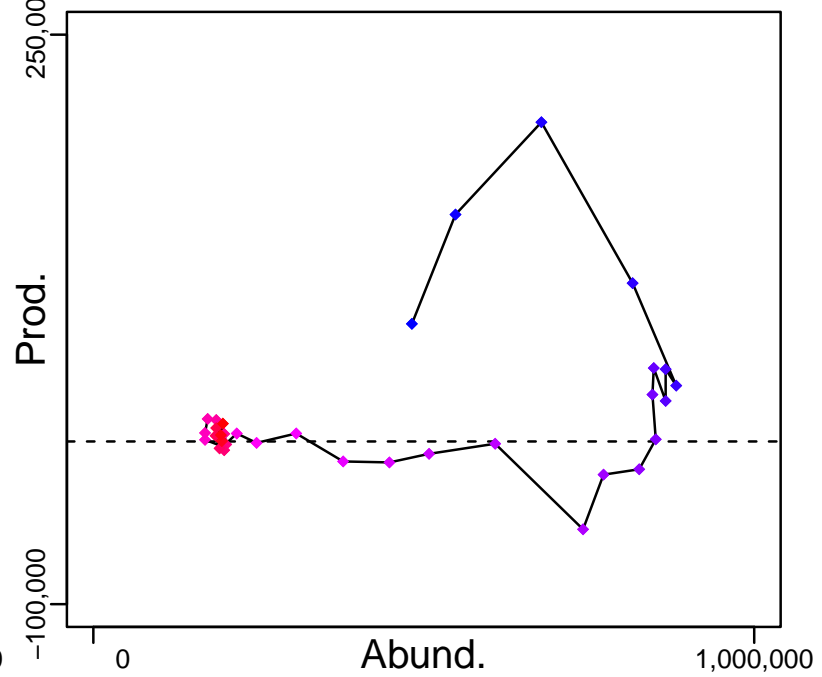
Kobe MGTpref (1978–2021–SISIMP2022)



Spawner Recruit (1978–2021–SISIMP2022)

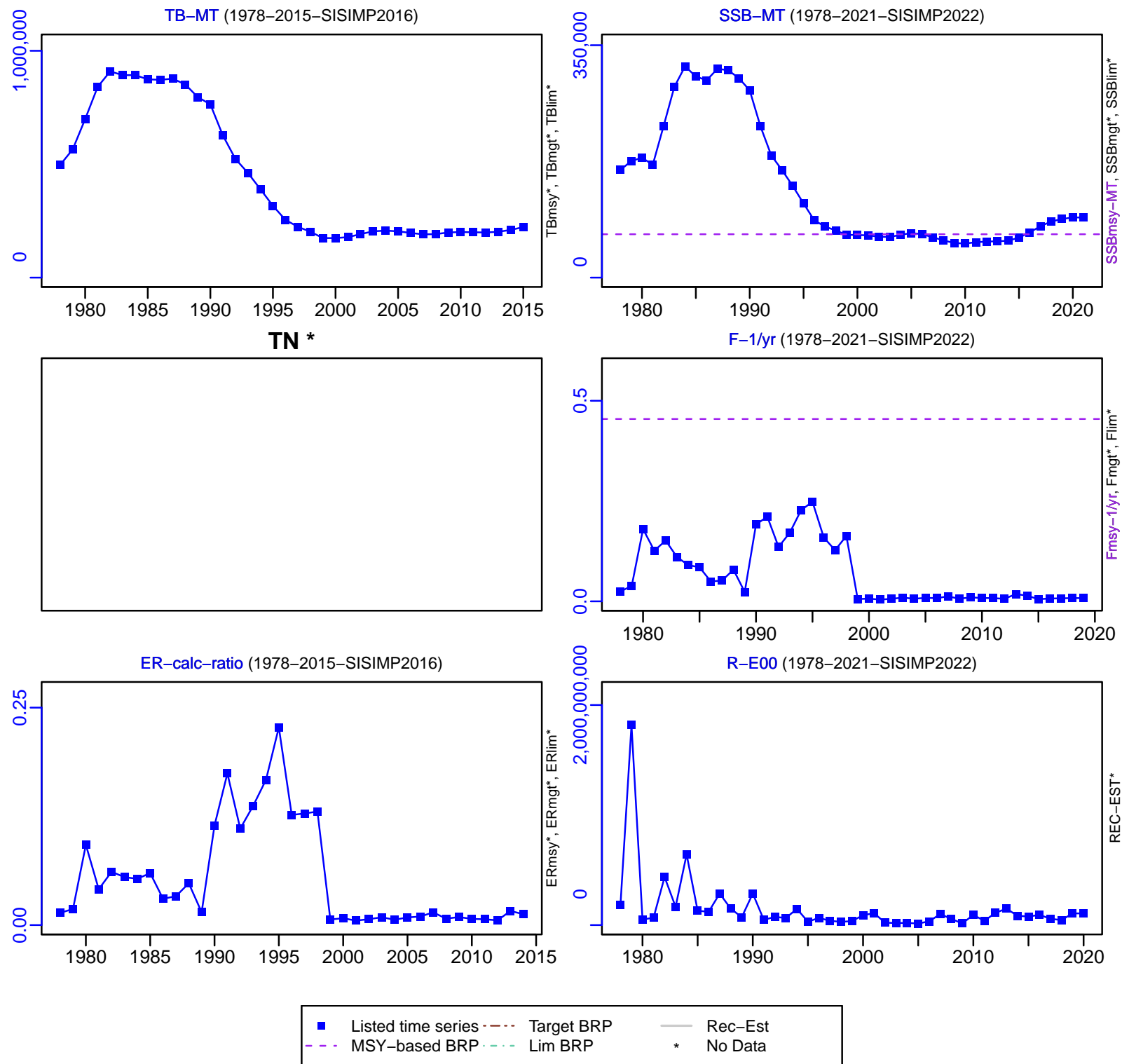


Production (1978–2015–SISIMP2016)



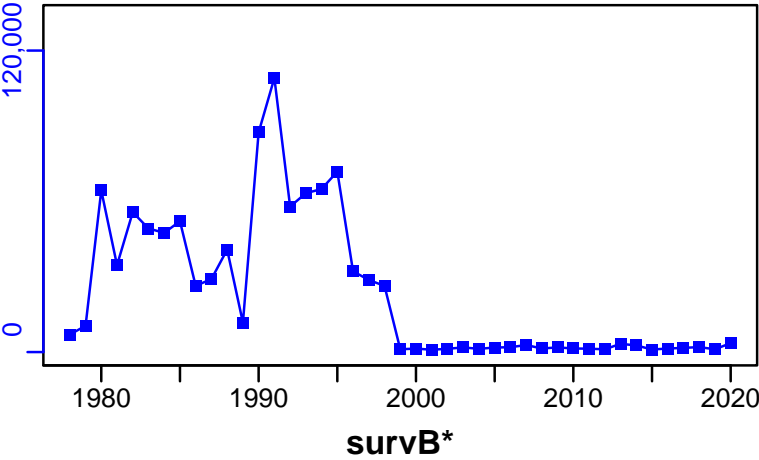
◆ Start Year ◆ End Year * No Data

Walleye pollock Aleutian Islands [WPOLLAI]



Walleye pollock Aleutian Islands [WPOLLAI]

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



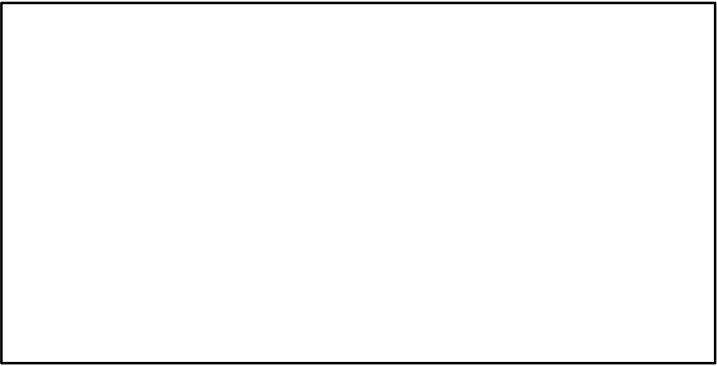
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



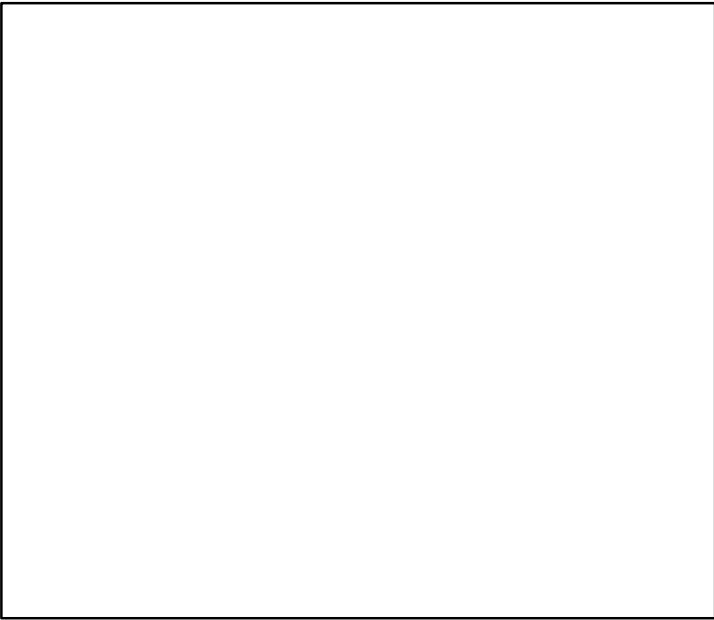
Walleye pollock British Columbia Waters North [WPOLLBCWN]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	DFO-PAC-WPOLLBCWN-1966-2018-ASHBROOK
Area	British Columbia Waters North
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2018

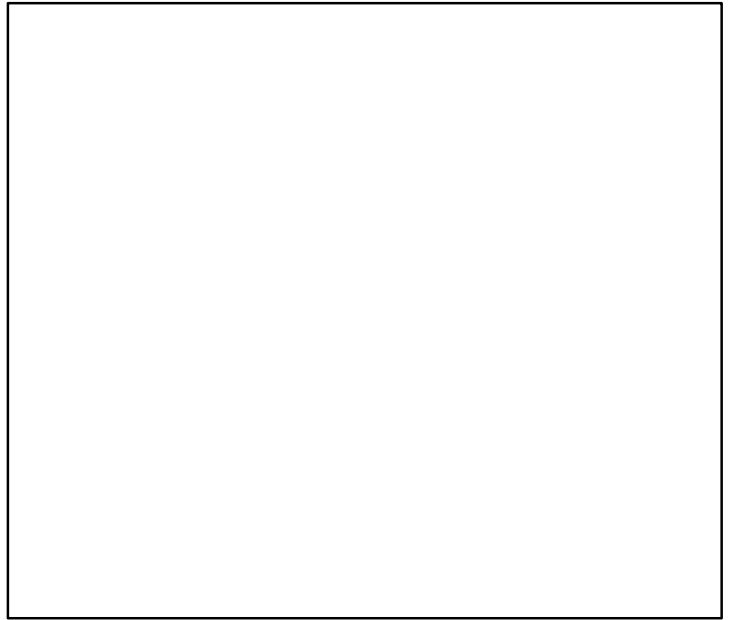
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	7837
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	5727
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2018	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	2864
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	4943	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	1165		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.631		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.863		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

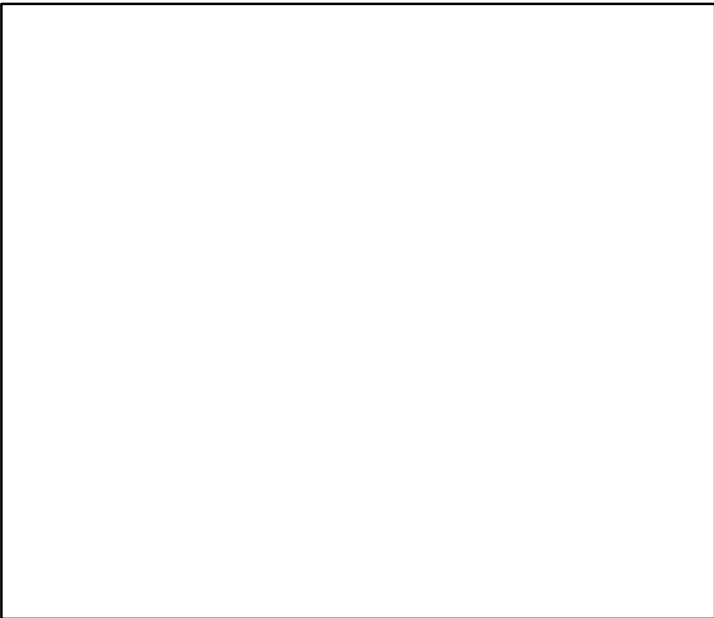
Kobe MSY*



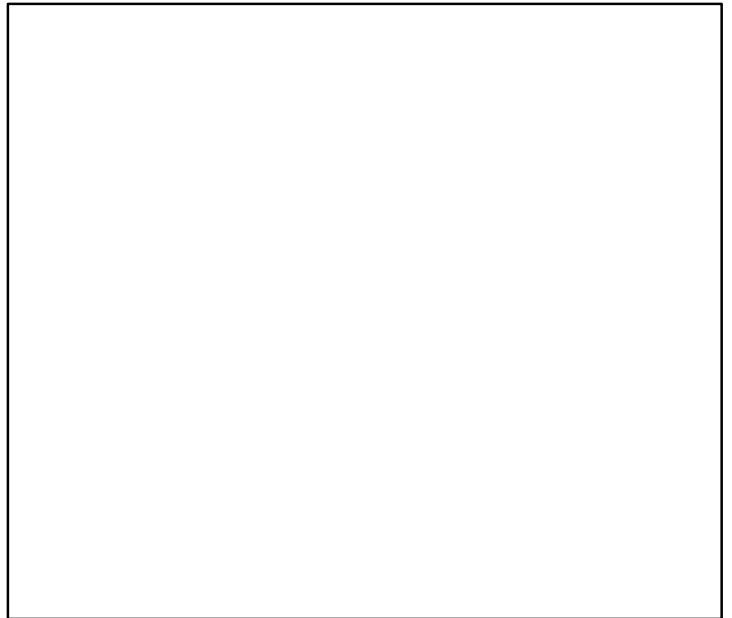
Kobe MGT*



Spawner Recruit*



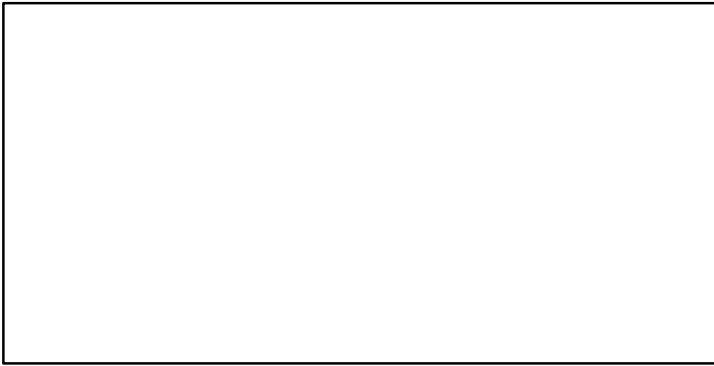
Production*



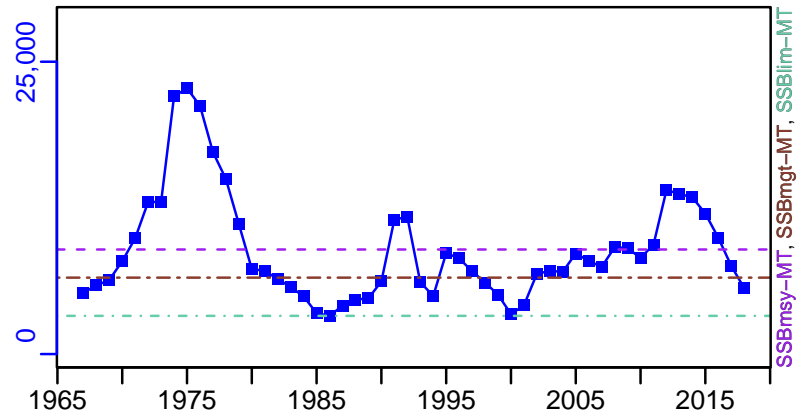
◆ Start Year ◆ End Year * No Data

Walleye pollock British Columbia Waters North [WPOLLBCWN]

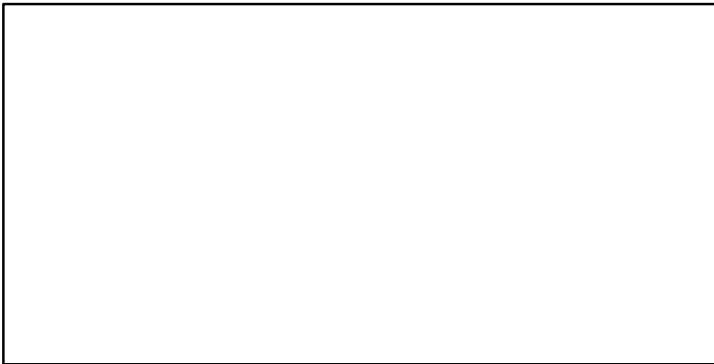
TB*



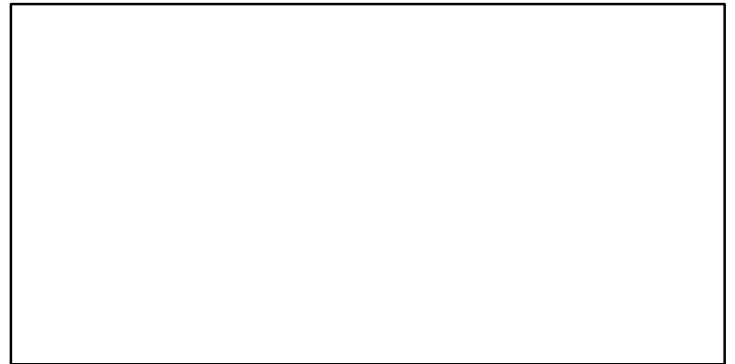
SSB-MT (1966-2018-ASHBROOK)



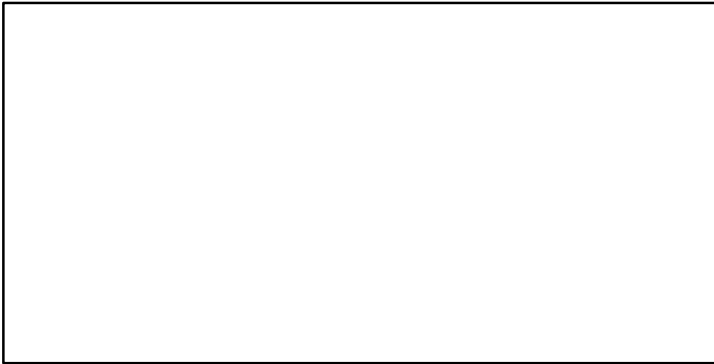
TN *



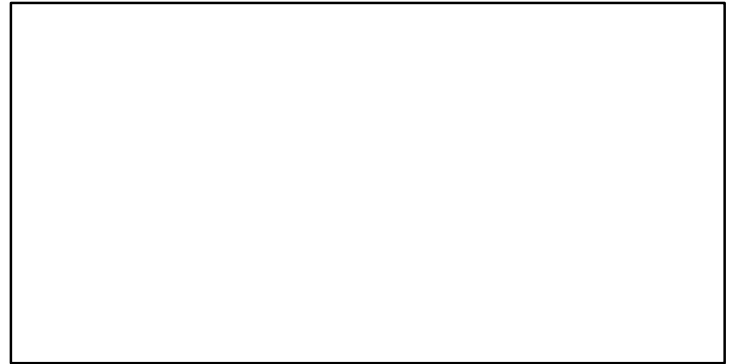
F*



ER*



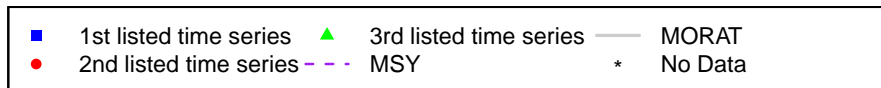
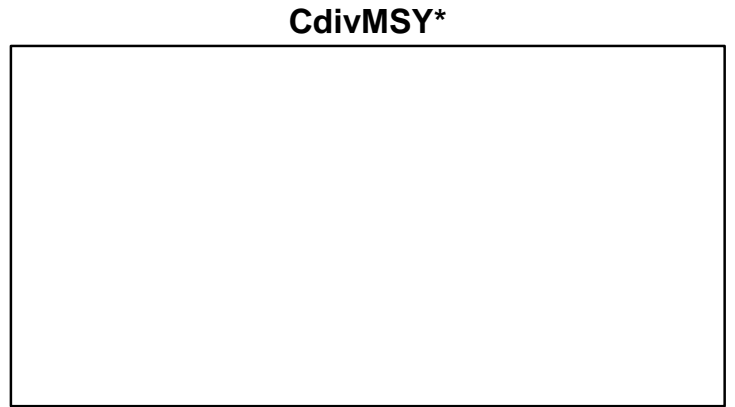
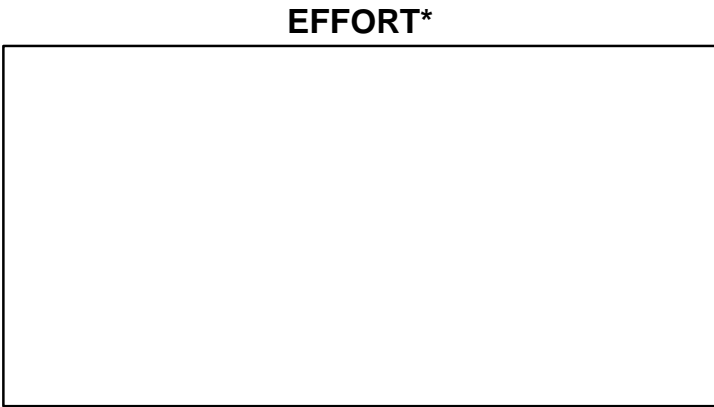
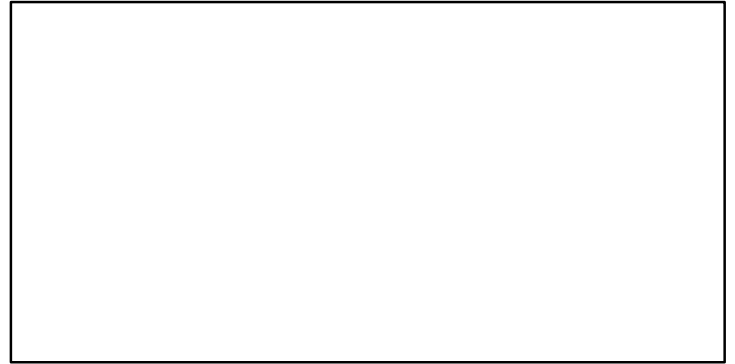
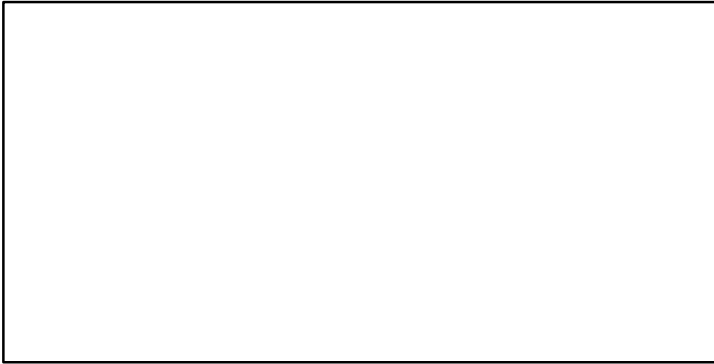
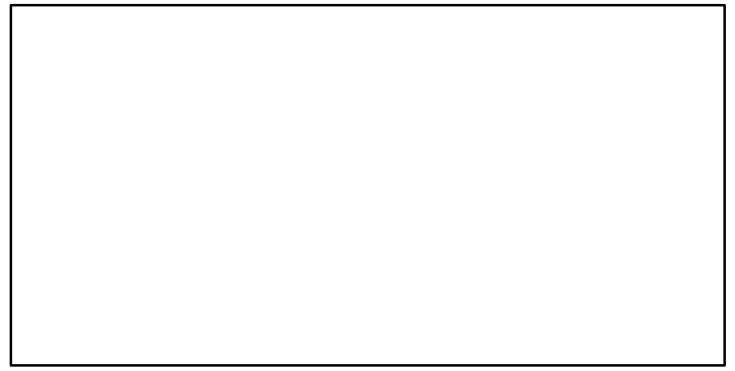
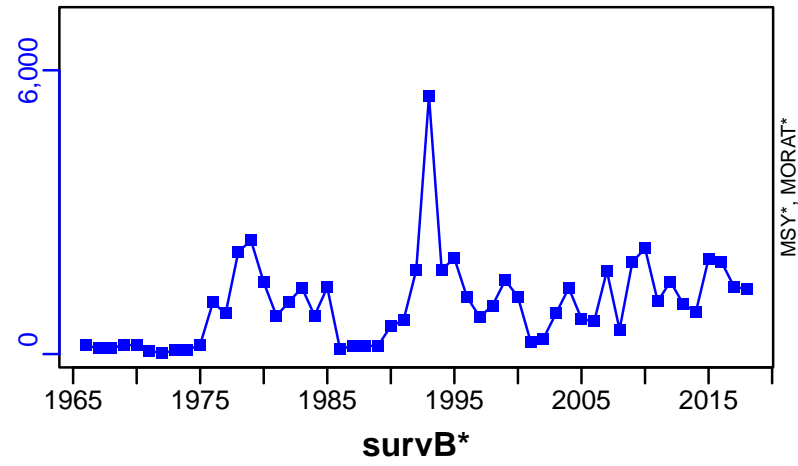
Recruits*



Walleye pollock British Columbia Waters North [WPOLLBCWN]

TL-MT, TC*, RecC* (1966-2018-ASHBROOK)

TAC*, Cpair*, Cadv*



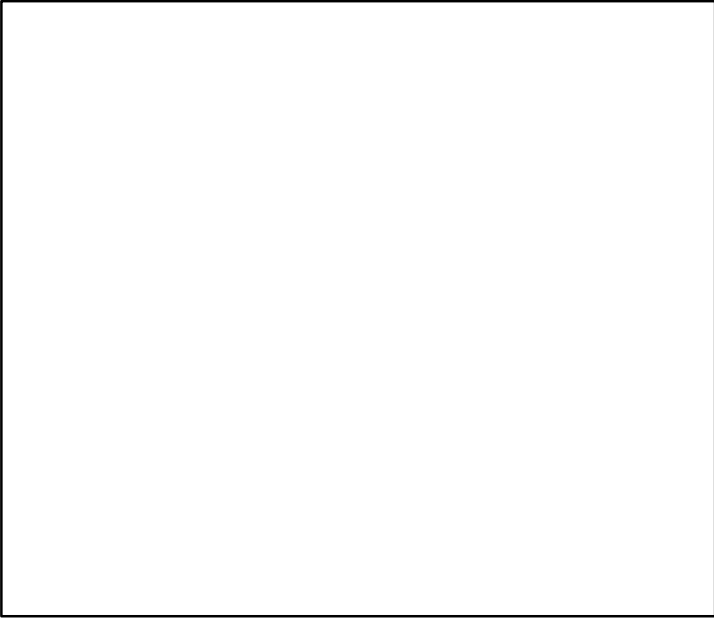
Walleye pollock British Columbia Waters South [WPOLLBCWS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	DFO-PAC-WPOLLBCWS-1966-2018-ASHBROOK
Area	British Columbia Waters South
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Pacific Region
Asmts in RAM	2018

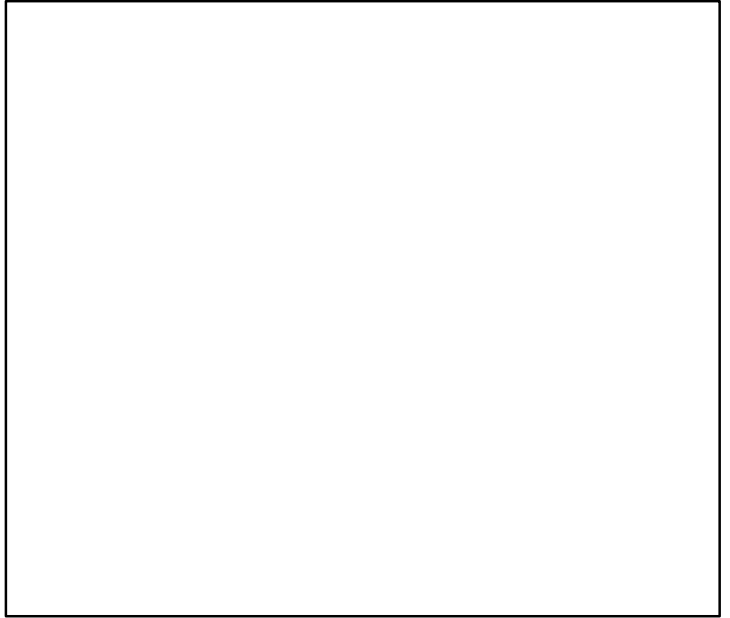
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	33,487
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	11,504
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2018	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	5752
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	24,113	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	1608		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.72		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.096		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

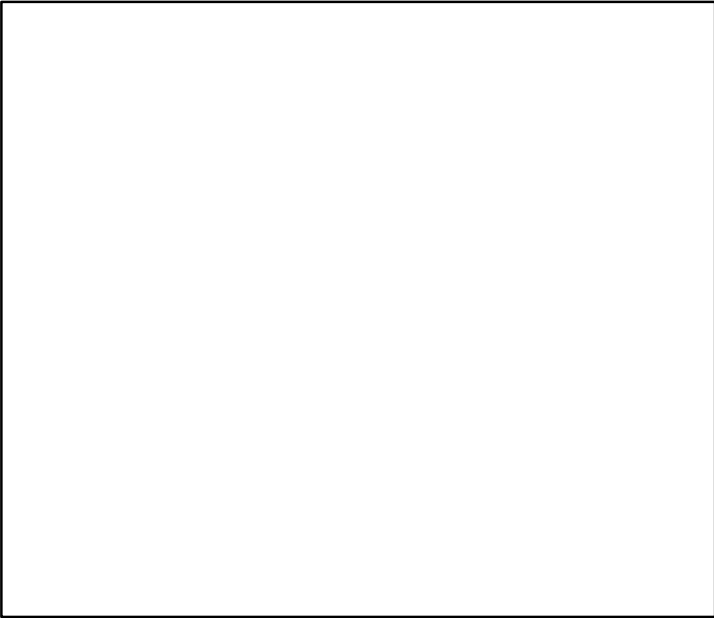
Kobe MSY*



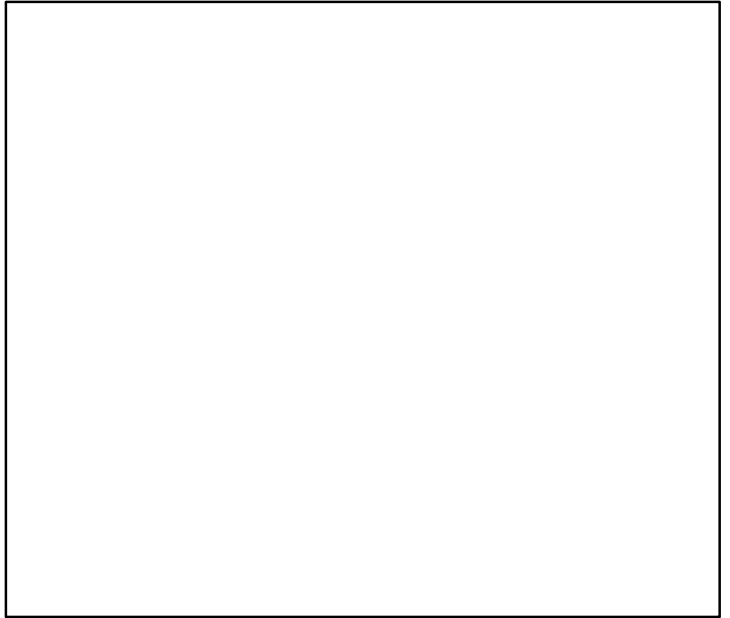
Kobe MGT*



Spawner Recruit*



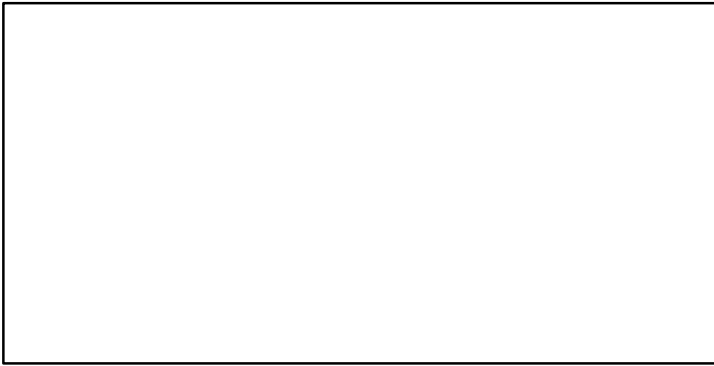
Production*



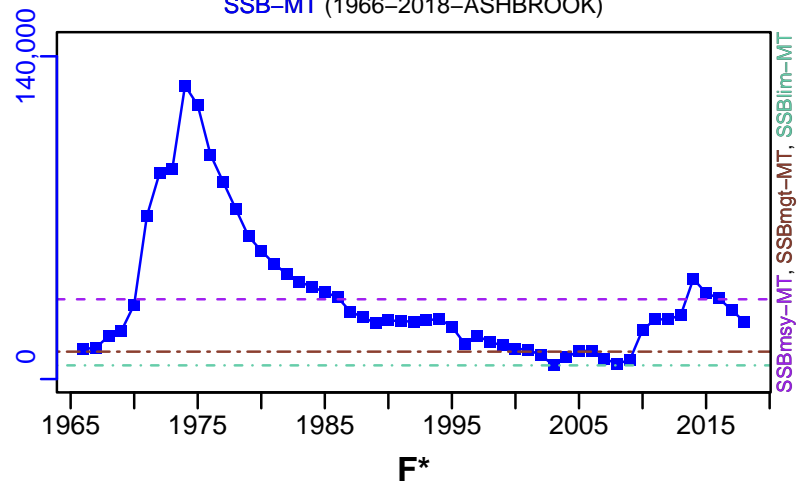
◆ Start Year ◆ End Year * No Data

Walleye pollock British Columbia Waters South [WPOLLBCWS]

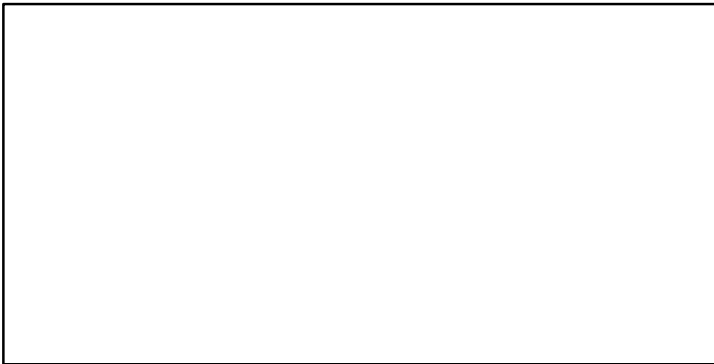
TB*



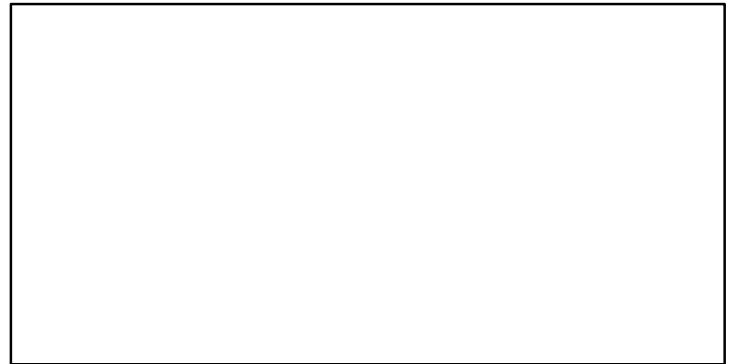
SSB-MT (1966-2018-ASHBROOK)



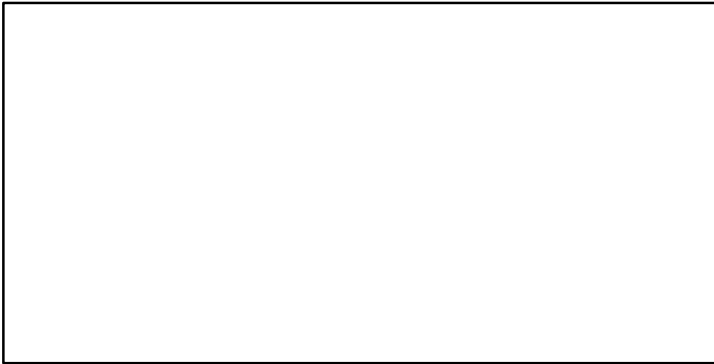
TN *



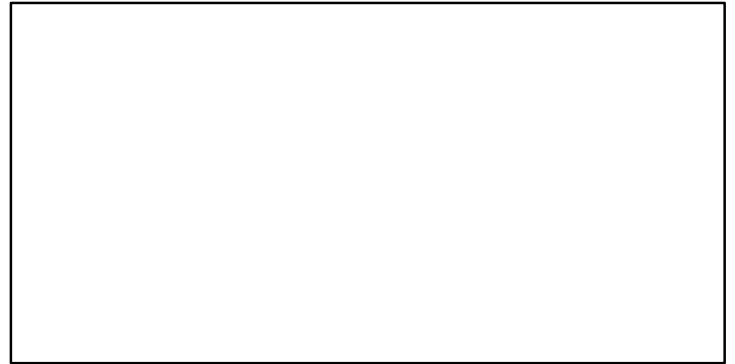
F*



ER*



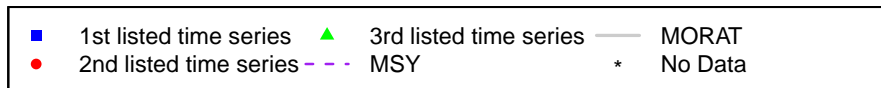
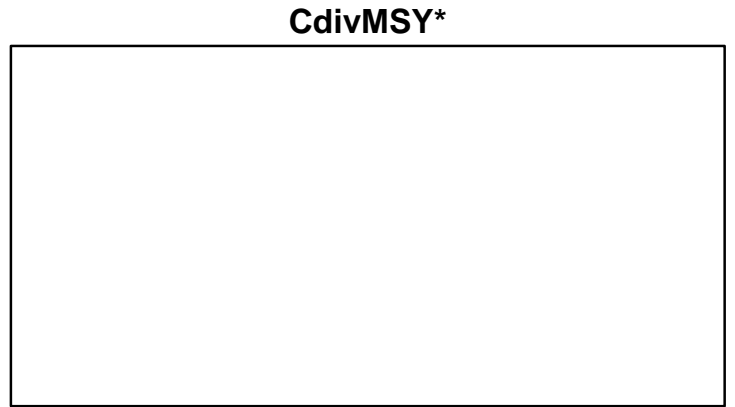
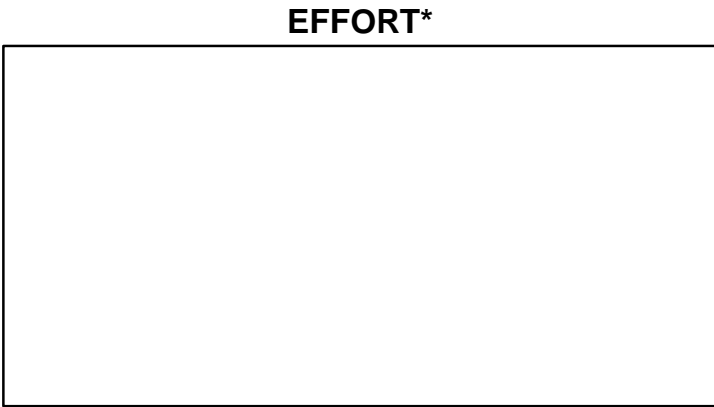
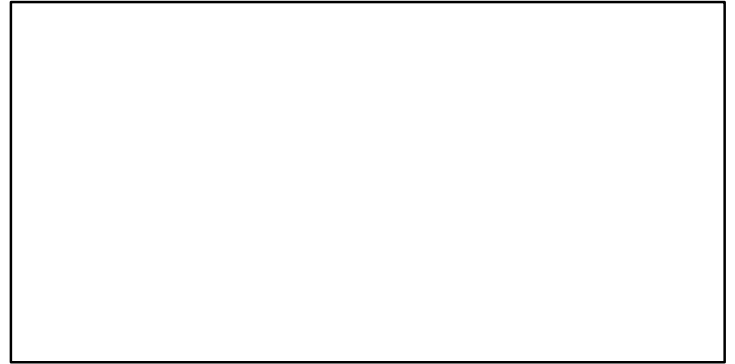
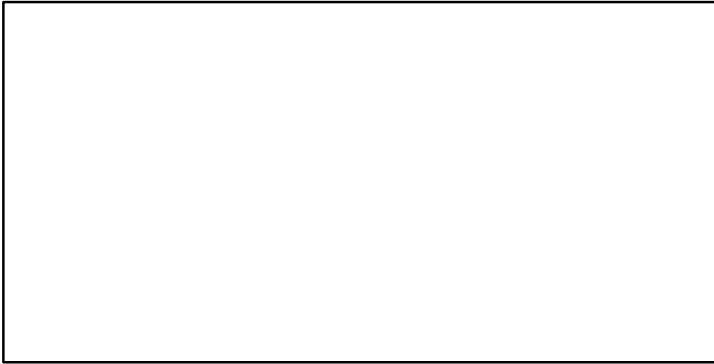
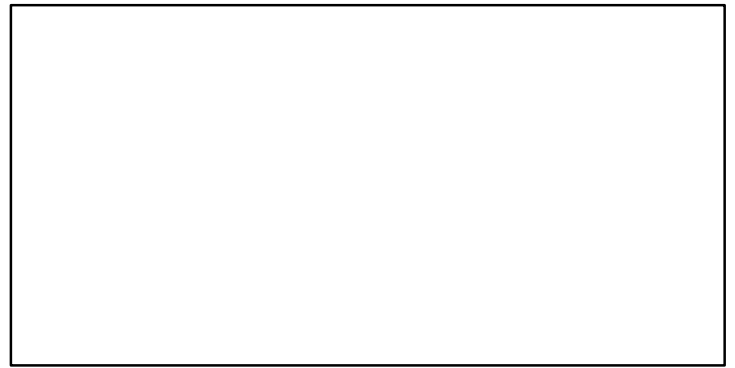
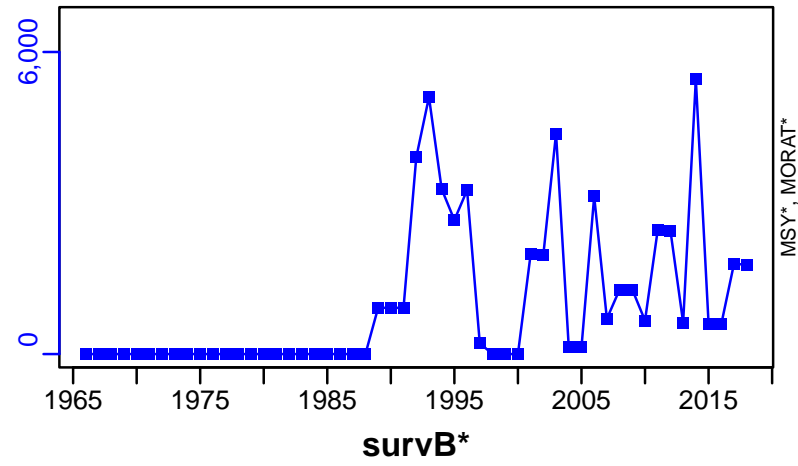
Recruits*



Walleye pollock British Columbia Waters South [WPOLLBCWS]

TL-MT, TC*, RecC* (1966-2018-ASHBROOK)

TAC*, Cpair*, Cadv*

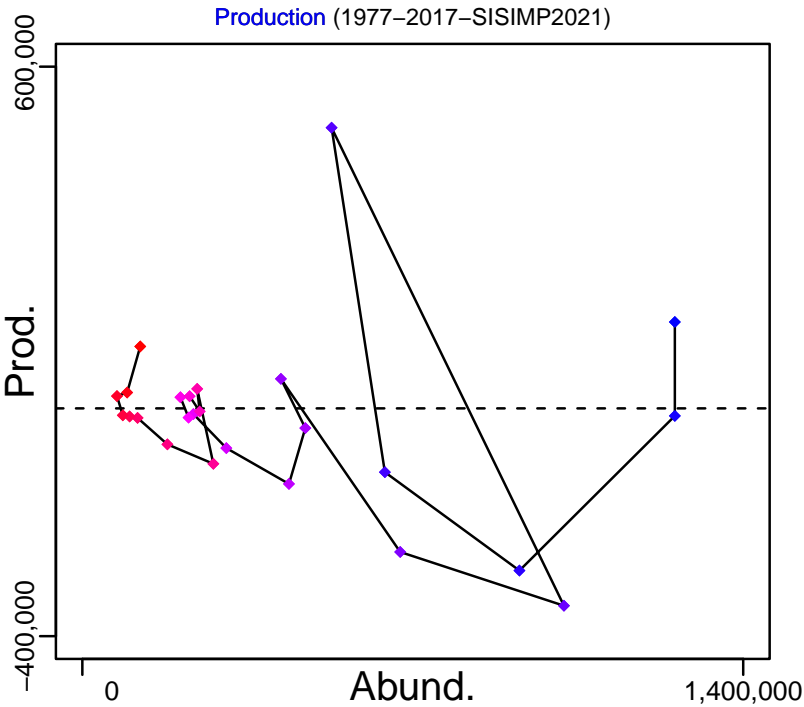
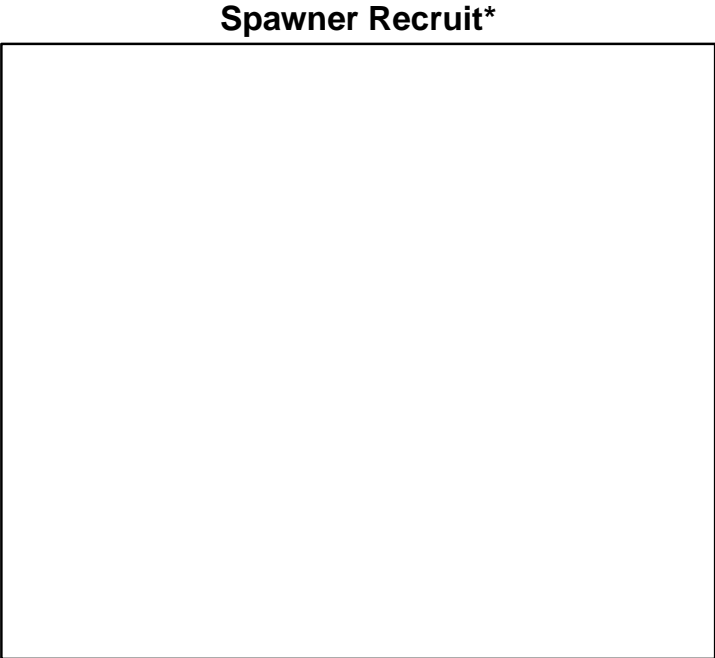
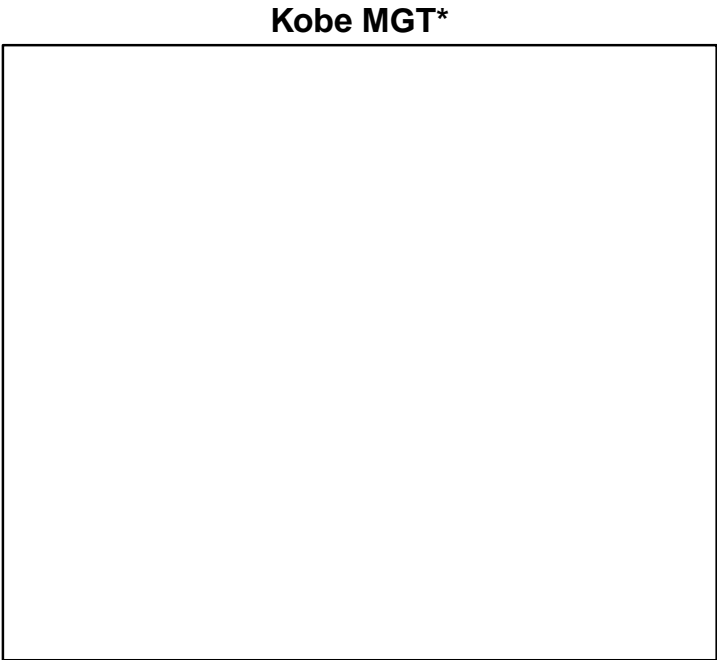
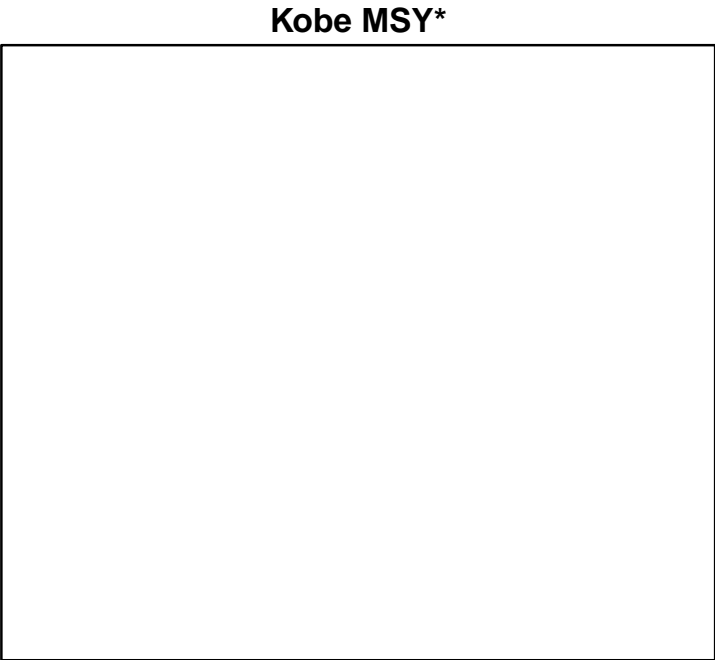


Walleye pollock Bogoslof [WPOLLBOGO]

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

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

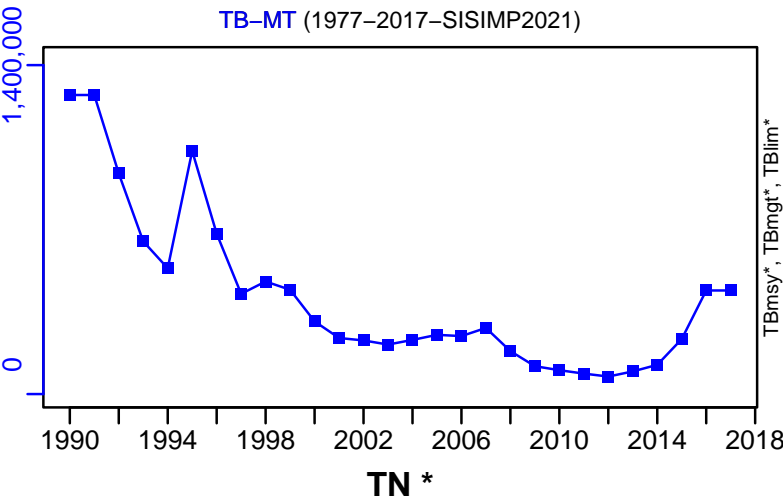
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	434,760	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.003	-	-
TC	TC-MT	2020	8		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.035		
TB/TBmgt	-	-	-		
SSB/SSBmgt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



◆ Start Year ◆ End Year * No Data

Walleye pollock Bogoslof [WPOLLBOGO]

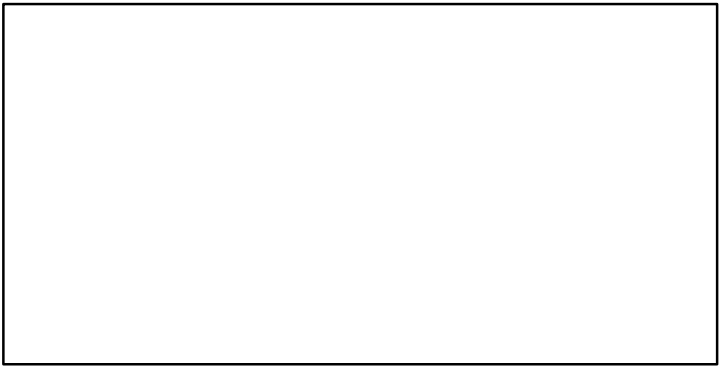
TB-MT (1977-2017-SISIMP2021)



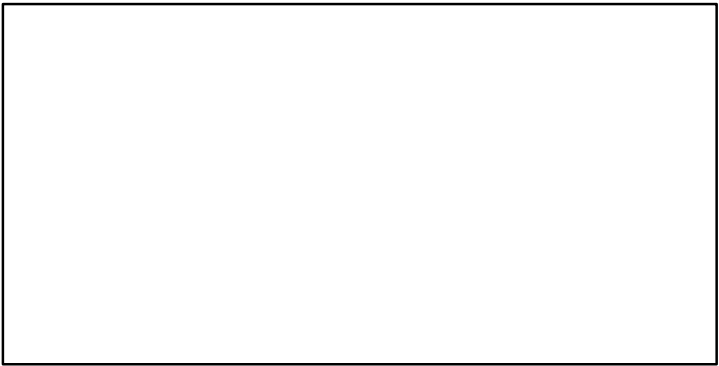
SSB*



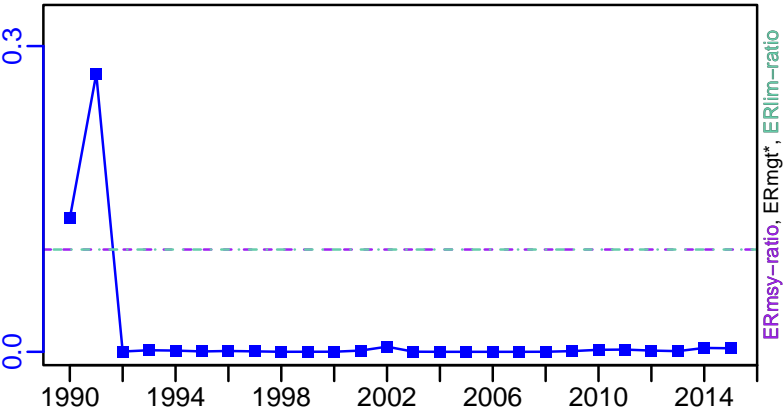
TN *



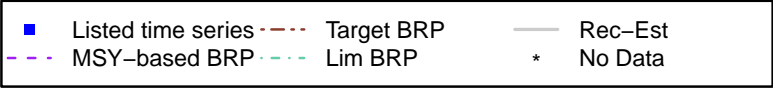
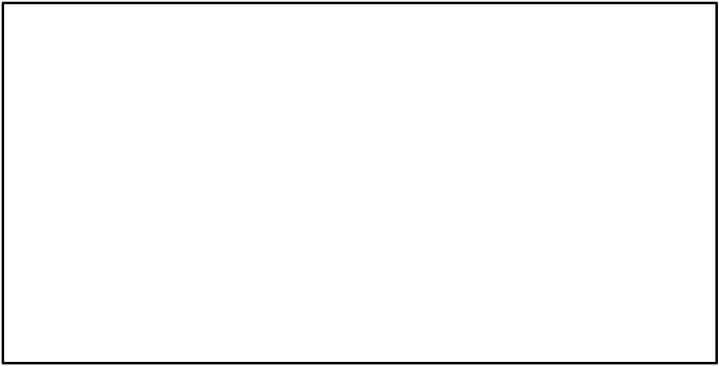
F*



ER-ratio (1977-2017-SISIMP2021)

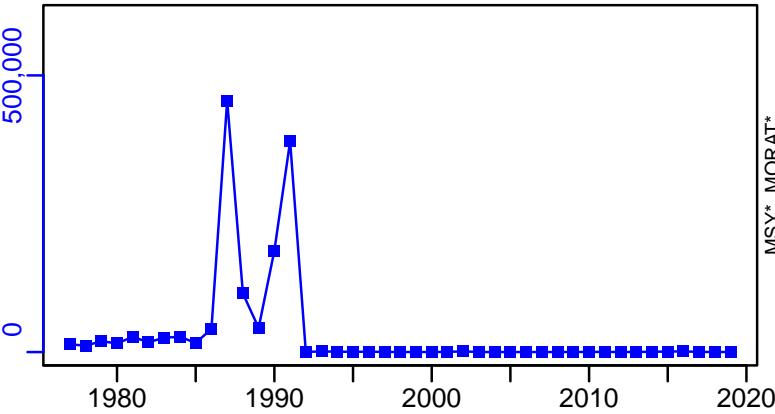


Recruits*



Walleye pollock Bogoslof [WPOLLBOGO]

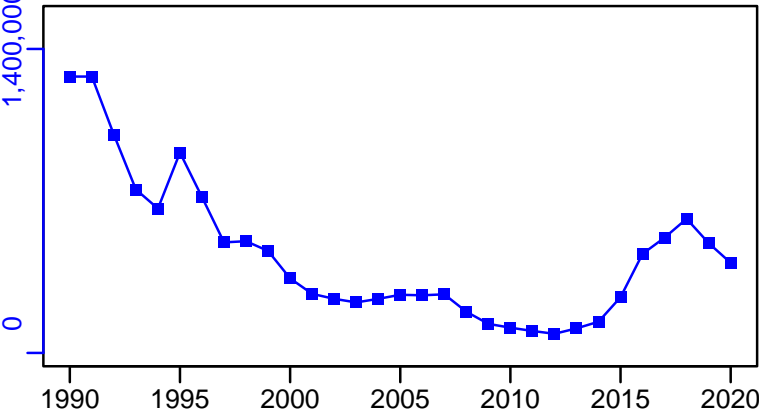
TC-MT, TL*, RecC* (1977-2020-SISIMP2021-2)



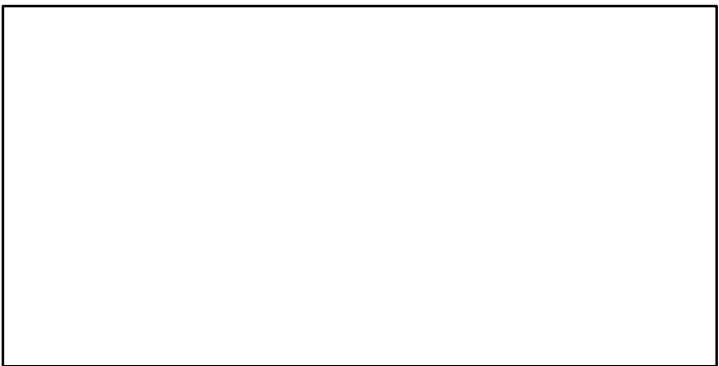
TAC*, Cpair*, Cadv*



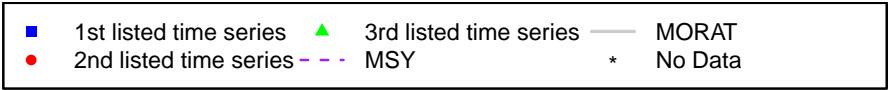
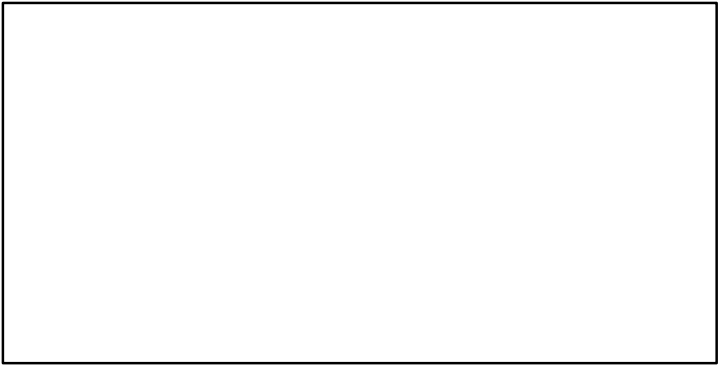
survB-MT (1977-2020-SISIMP2021-2)



CPUE*



CdivMSY*



Walleye pollock Eastern Bering Sea [WPOLLEBS]

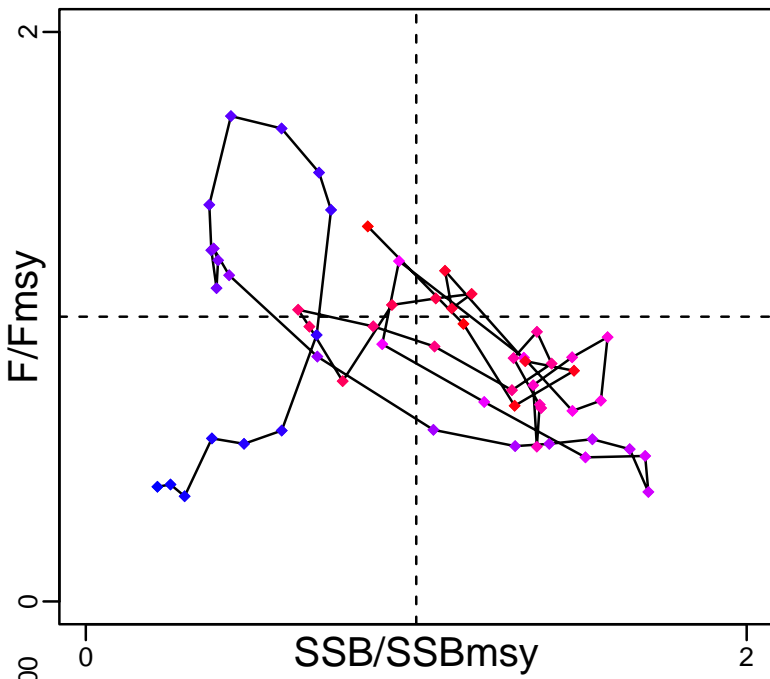
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLEBS-1963-2021-SISIMP2022
Area	Eastern Bering Sea
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2015, 2016, 2017, 2018, 2021, 2019, 2020

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

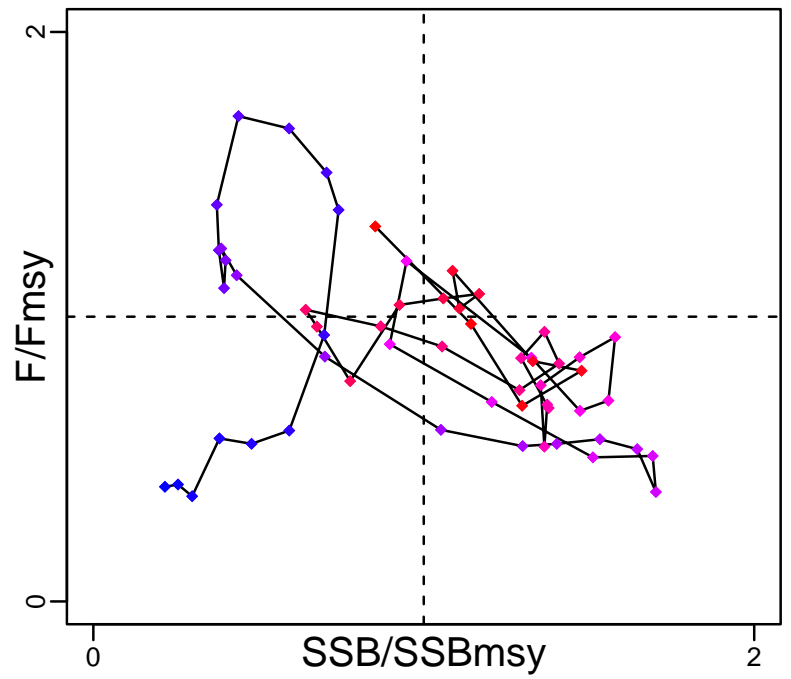
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	7,780,000	-	3+
SSB	SSB-MT	2021	1,797,500	-	-
TN	-	-	-	-	-
R	R-E00	2021	20,205,199,220	-	1
F	F-1/yr	2021	0.606	-	-
ER	ER-calc-ratio	2015	0.16	-	-
TC	TC-MT	2021	1,367,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.796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

Walleye pollock Eastern Bering Sea [WPOLLEBS]

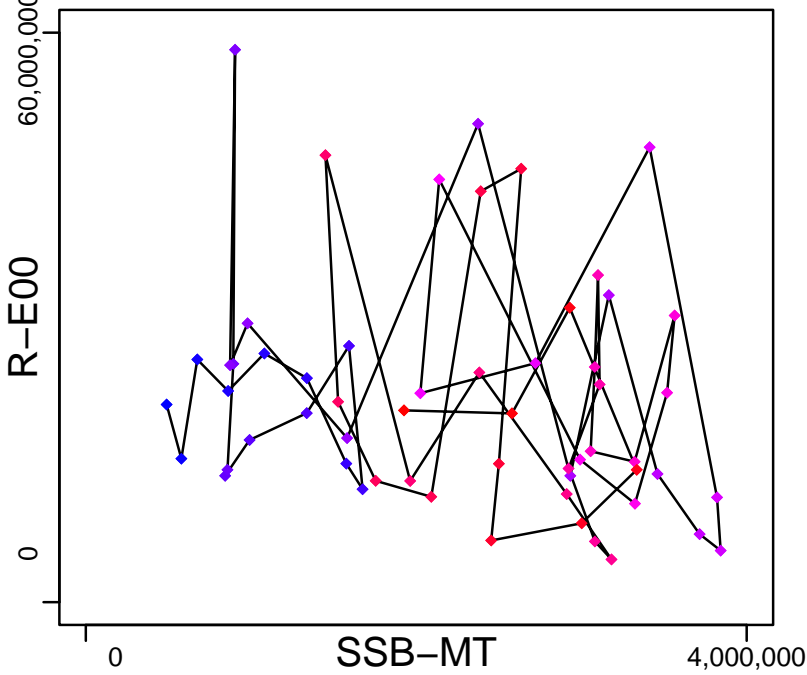
Kobe MSYpref (1963–2021–SISIMP2022)



Kobe MGTpref (1963–2021–SISIMP2022)



Spawner Recruit (1963–2021–SISIMP2022)

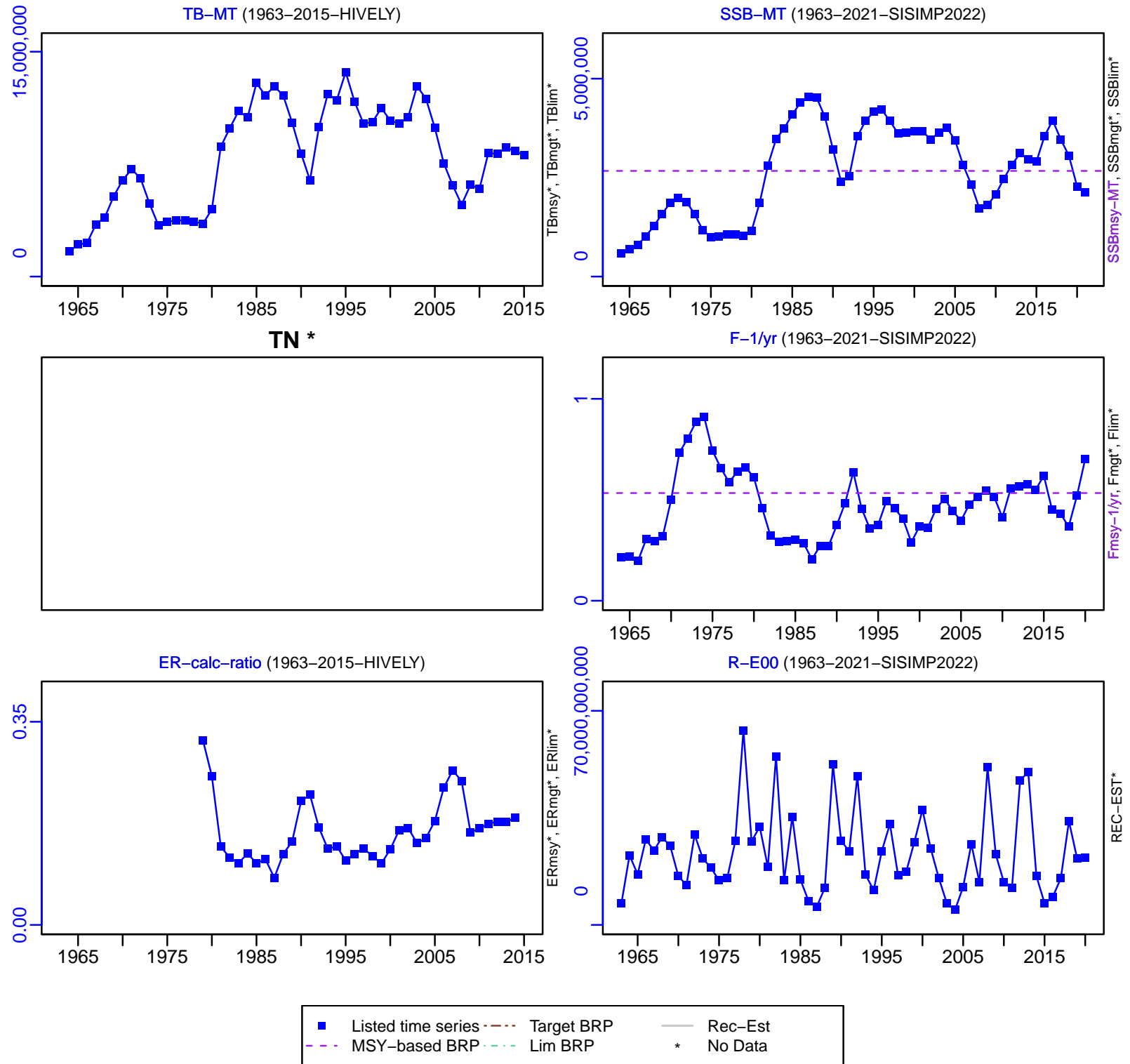


Production*



◆ Start Year ◆ End Year * No Data

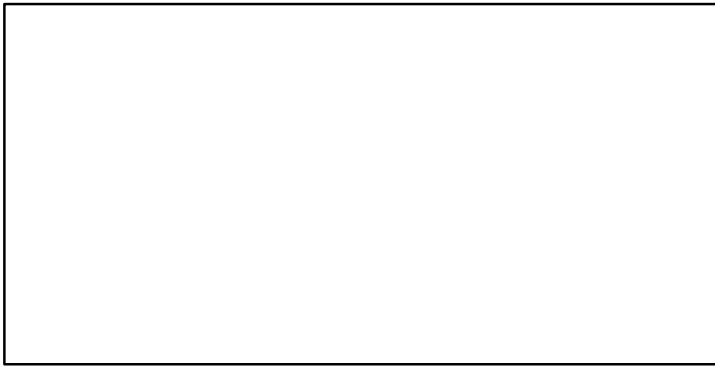
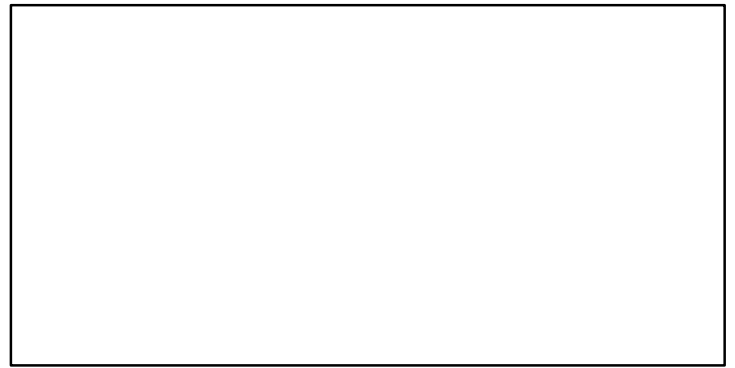
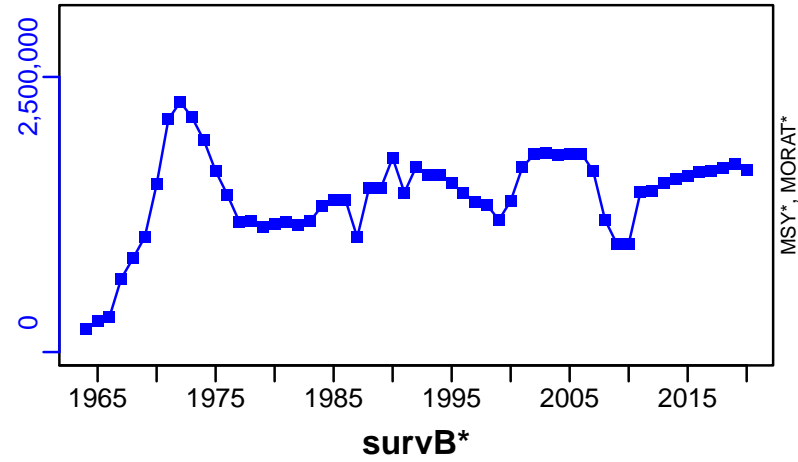
Walleye pollock Eastern Bering Sea [WPOLLEBS]



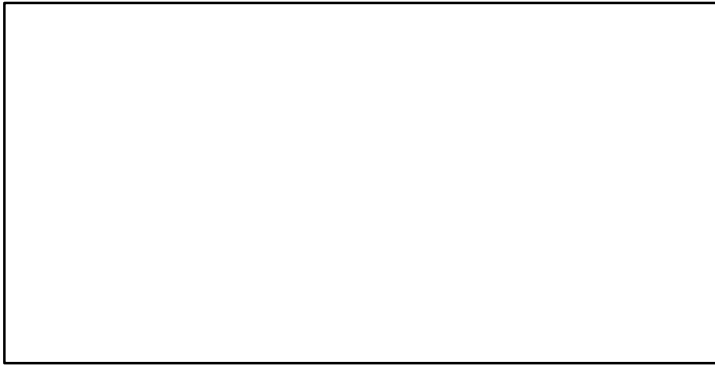
Walleye pollock Eastern Bering Sea [WPOLLEBS]

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

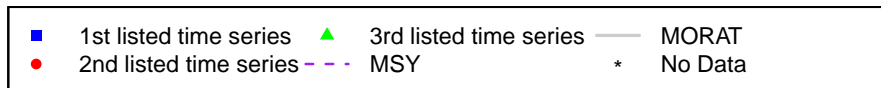
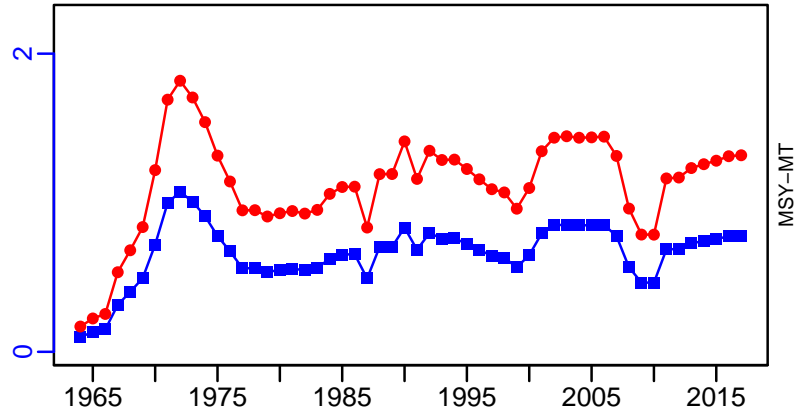
TAC*, Cpair*, Cadv*



EFFORT*



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



Walleye pollock Gulf of Alaska [WPOLLGA]

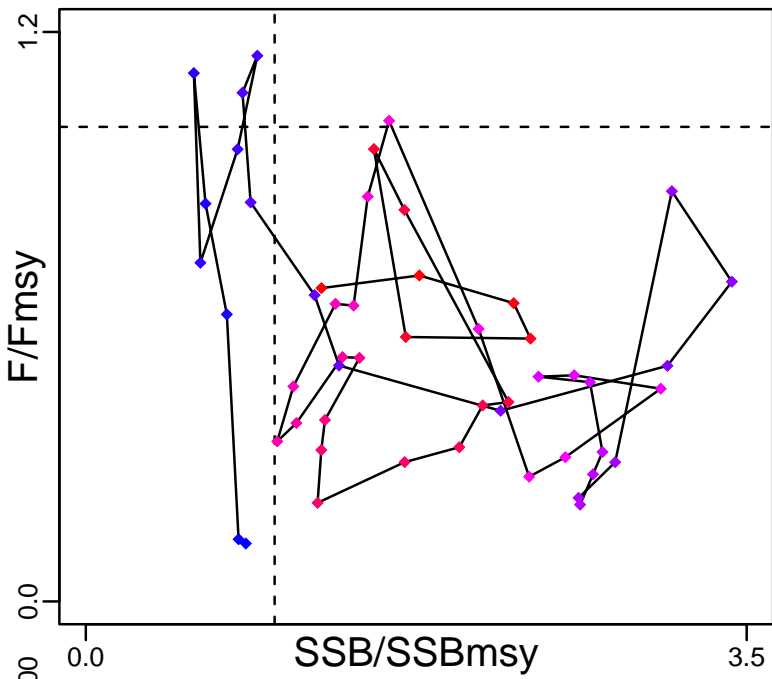
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	AFSC-WPOLLGA-1969-2021-SISIMP2022
Area	Gulf of Alaska
Management Authority	National Marine Fisheries Service, US national management
Assessor	Alaska Fisheries Science Center
Asmts in RAM	2019, 2016, 2017, 2018, 2021, 2014, 2015, 2020

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

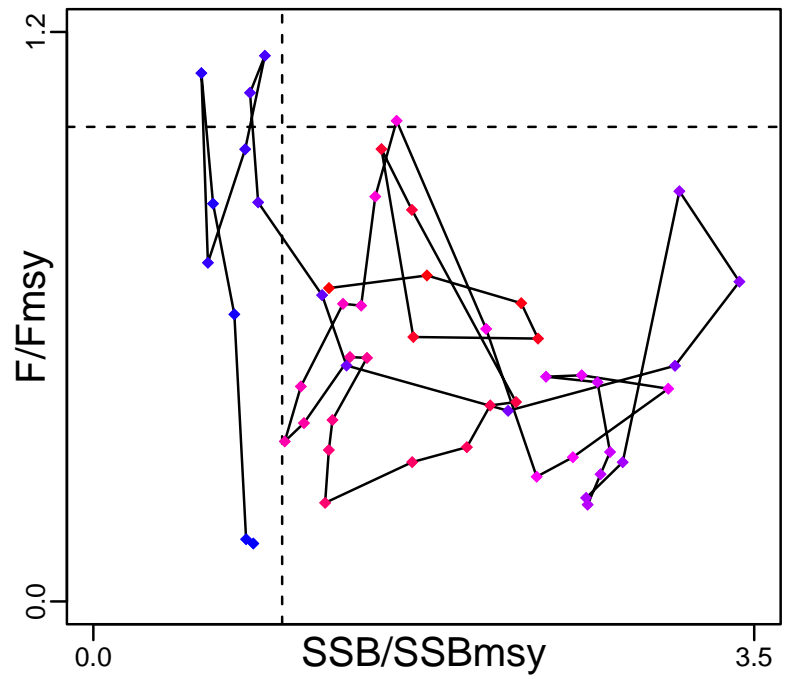
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	1,730,000	-	3+
SSB	SSB-MT	2021	197,189	-	-
TN	-	-	-	-	-
R	R-E00	2021	10,759,599,610	-	1
F	F-1/yr	2021	0.205	-	-
ER	ER-calc-ratio	2015	0.127	-	-
TC	TC-MT	2021	107,471		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.31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

Walleye pollock Gulf of Alaska [WPOLLGA]

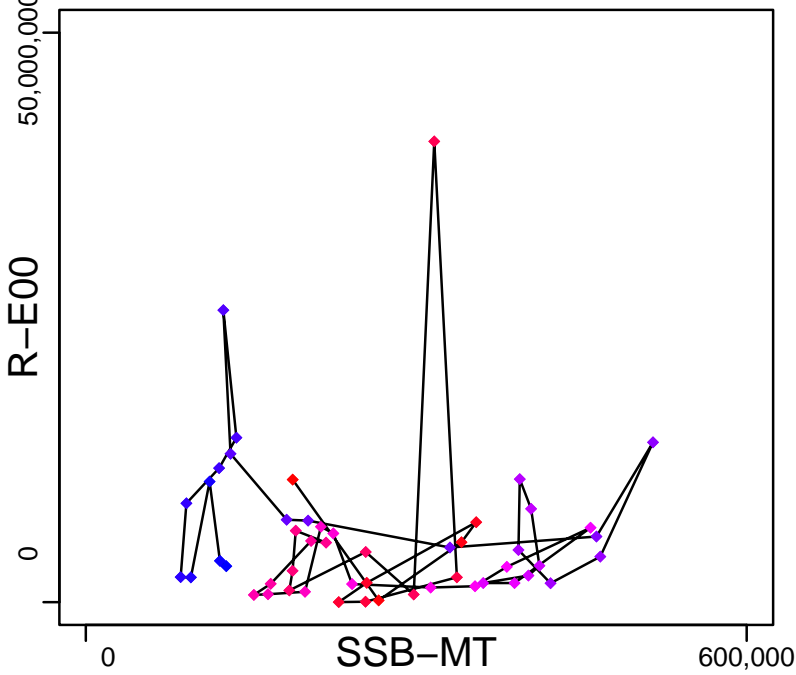
Kobe MSYpref (1969–2021–SISIMP2022)



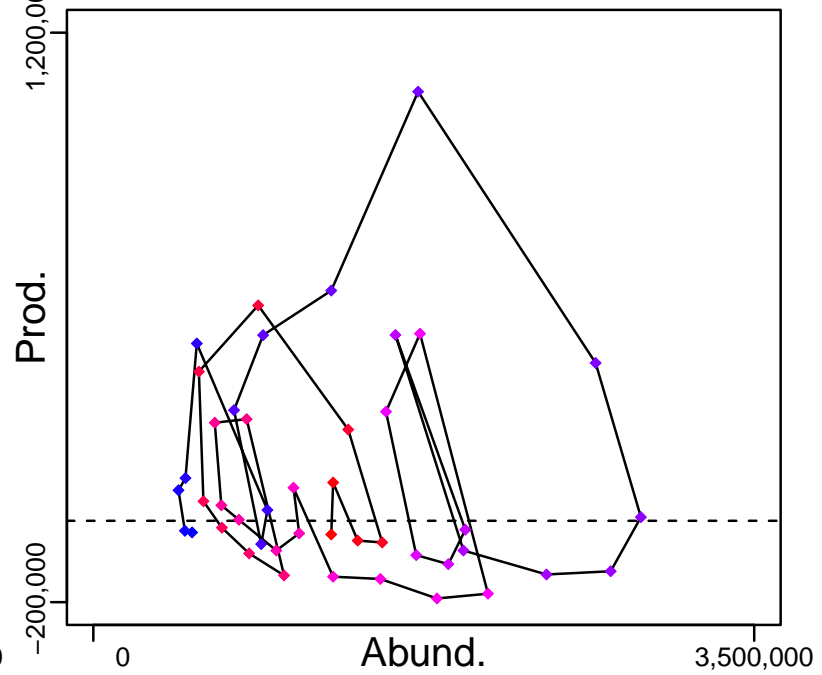
Kobe MGTpref (1969–2021–SISIMP2022)



Spawner Recruit (1969–2021–SISIMP2022)

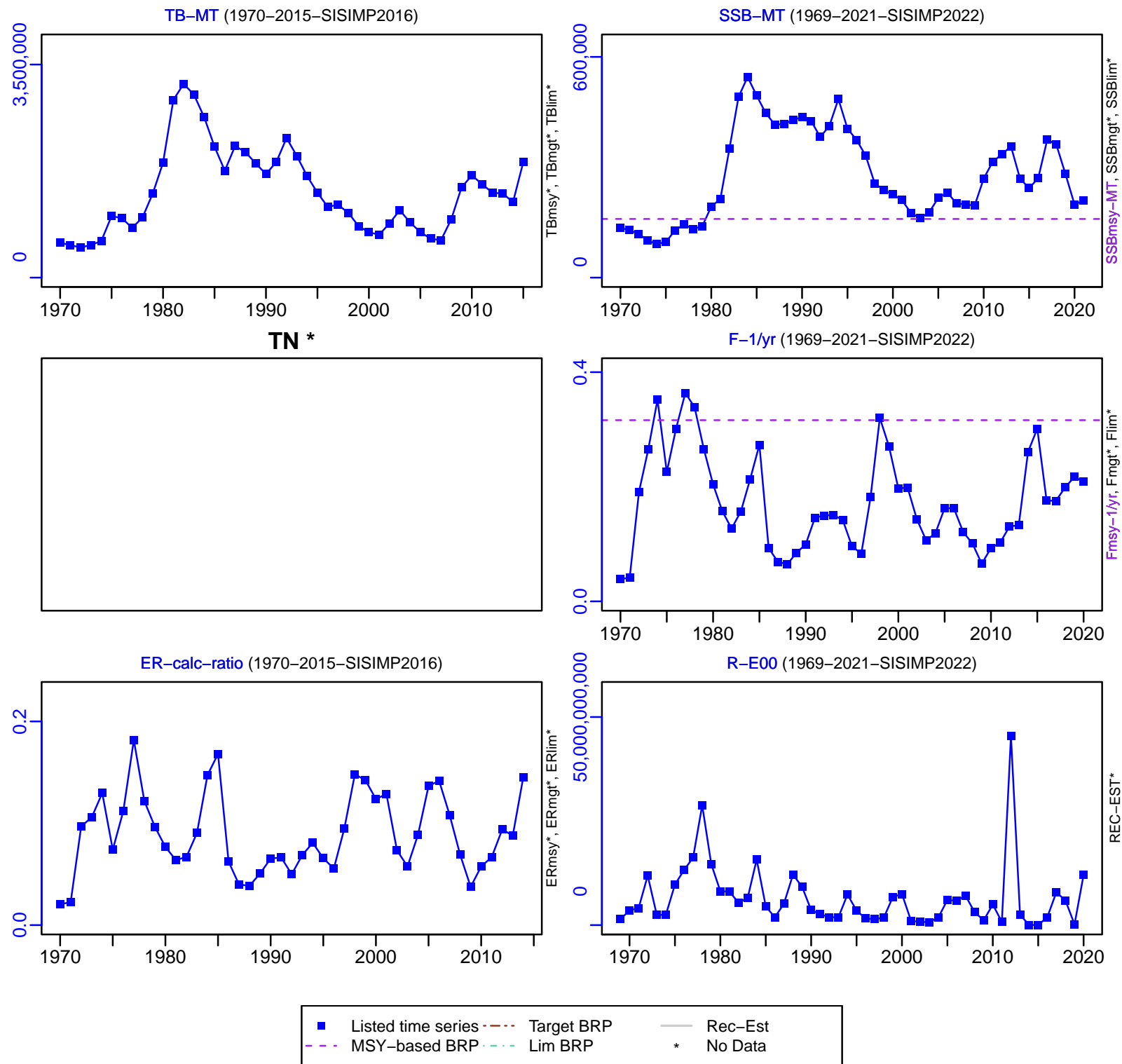


Production (1970–2015–SISIMP2016)



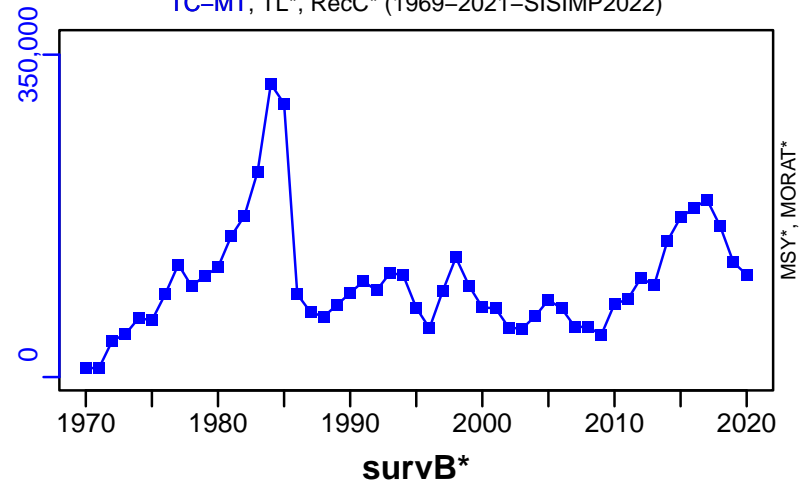
◆ Start Year ◆ End Year * No Data

Walleye pollock Gulf of Alaska [WPOLLGA]

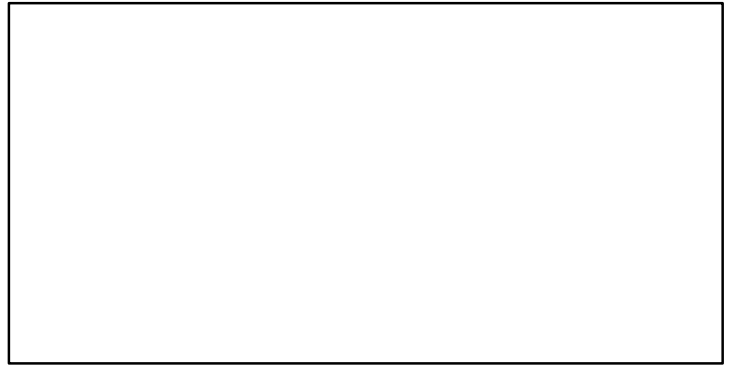


Walleye pollock Gulf of Alaska [WPOLLGA]

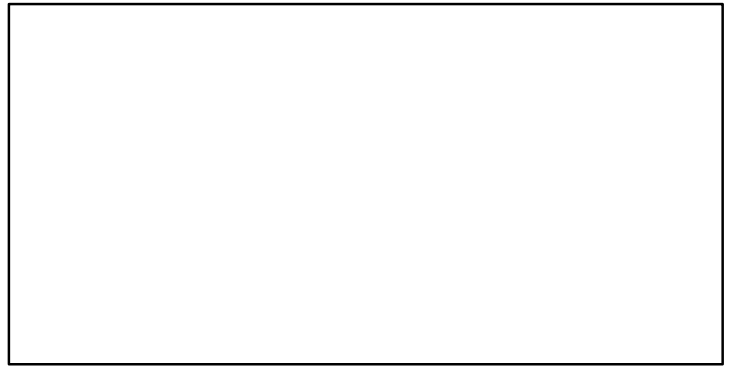
TC-MT, TL*, RecC* (1969-2021-SISIMP2022)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Walleye pollock Navarinsky [WPOLLNAVAR]

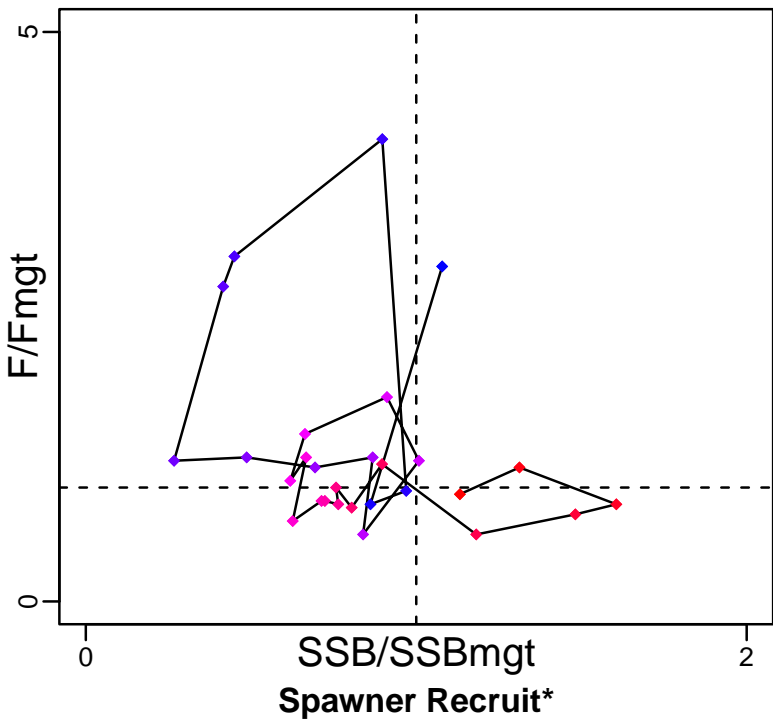
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLNAVAR-1984-2023-HIVELY
Area	Navarinsky
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2015, 2020, 2023, 2004

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2004	1,570,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2004	0.235
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	1,478,951
Fmgt	Fmgt-1/yr	2023	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	900,060
Flim	Flim-1/yr	2020	0.514
ERlim	-	-	-

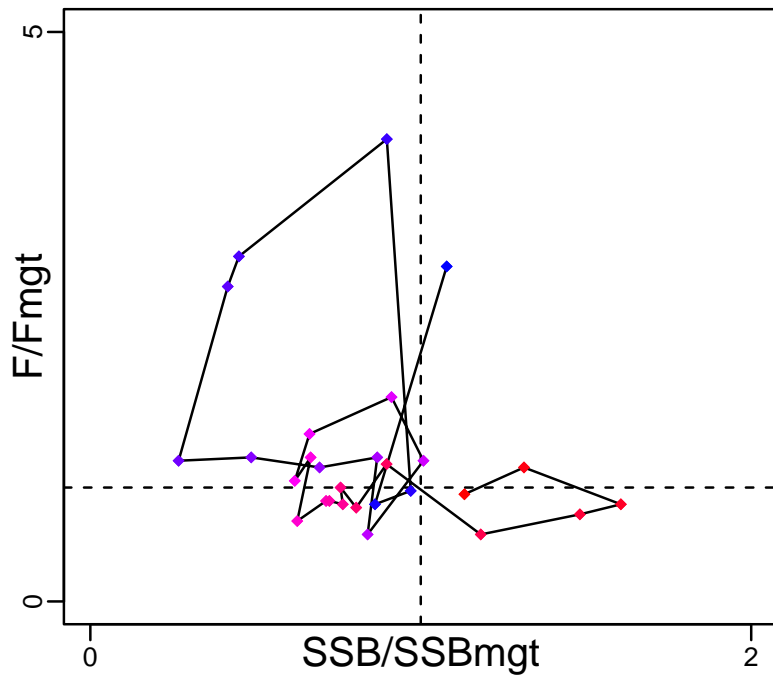
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2004	1,600,000	-	2+
SSB	SSB-MT	2023	1,542,450	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2023	0.32	-	-
ER	ER-ratio	2004	0.237	-	-
TC	TC-MT	2023	352,809		
TL	TL-MT	2015	310,000		
TB/TBmsy	TB-MT/TBmsy-MT	2004	1.019		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2004	1.064		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	1.043		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.941		
ER/ERmgt	-	-	-		

Walleye pollock Navarinisky [WPOLLNAVAR]

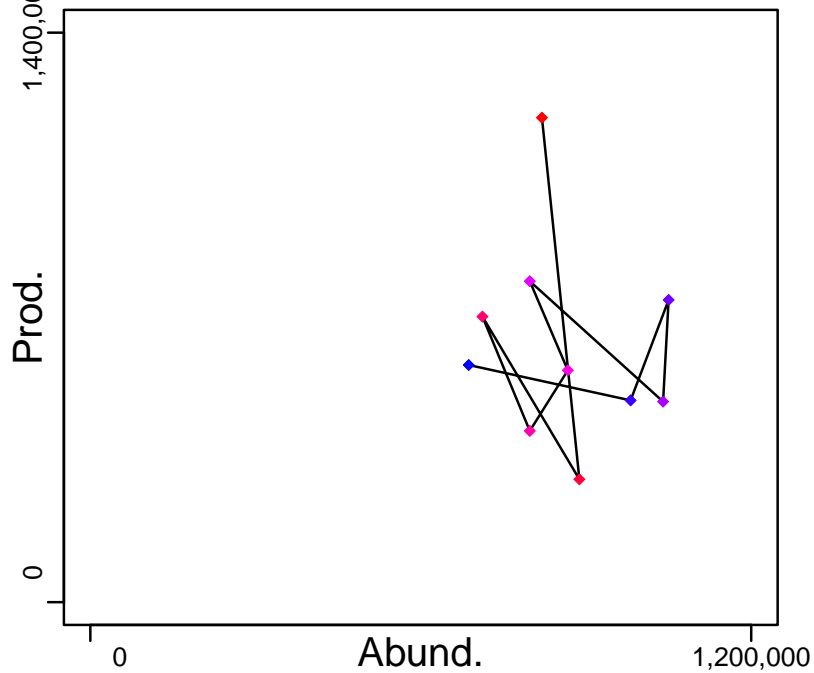
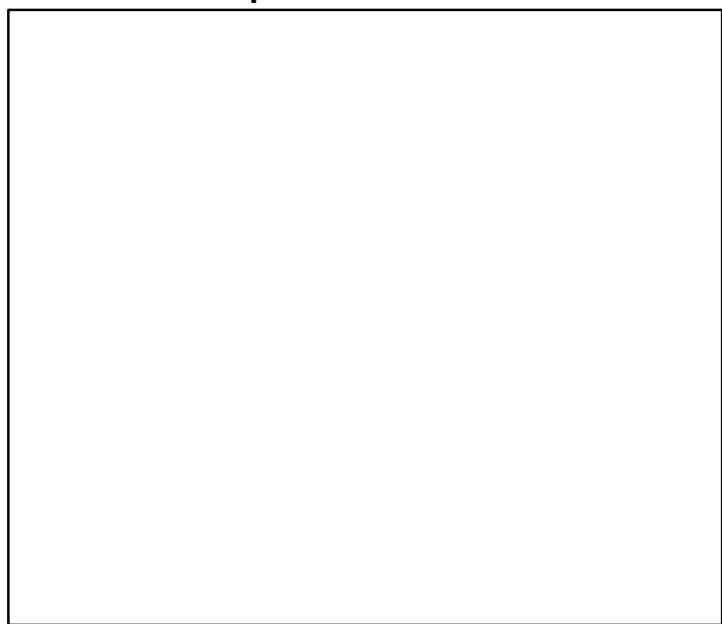
Kobe MSYpref (1984–2023–HIVELY)



Kobe MGTpref (1984–2023–HIVELY)



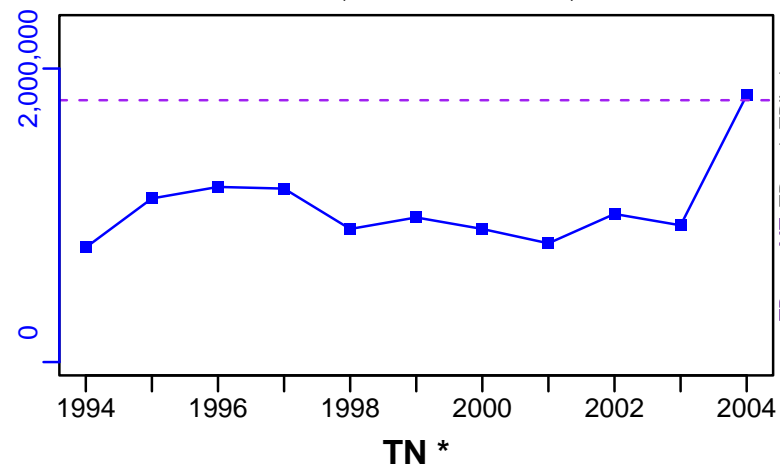
Production (1994–2004–JENSEN)



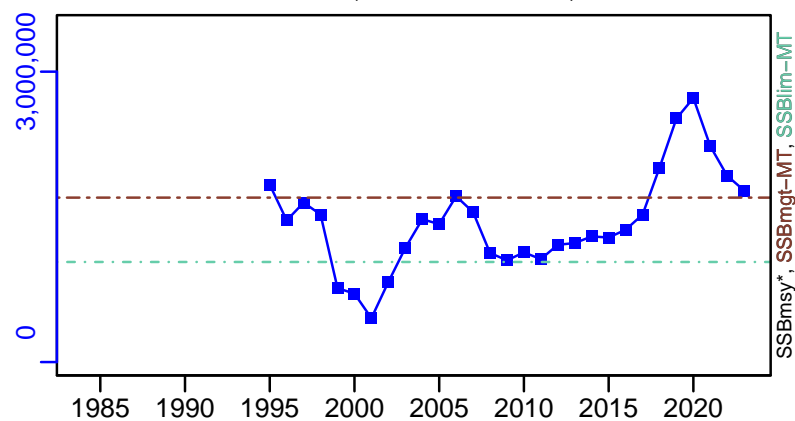
◆ Start Year ◆ End Year * No Data

Walleye pollock Navarin sky [WPOLLNAVAR]

TB-MT (1994-2004-JENSEN)



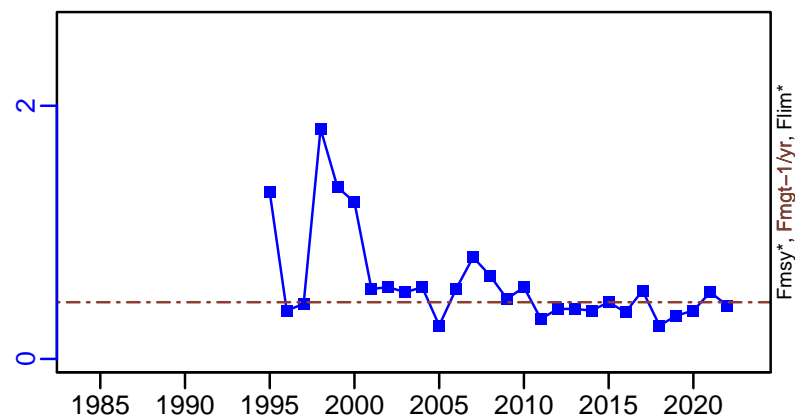
SSB-MT (1984-2023-HIVELY)



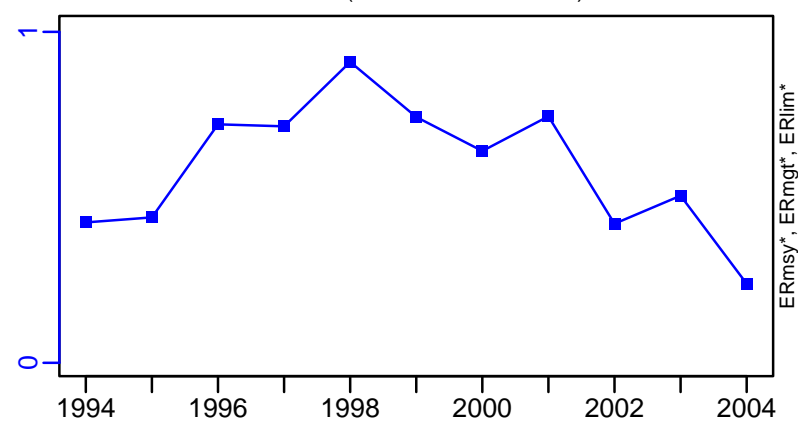
TN *



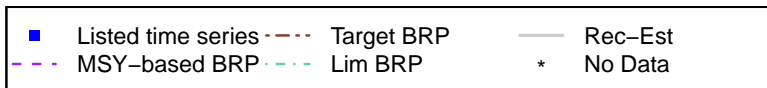
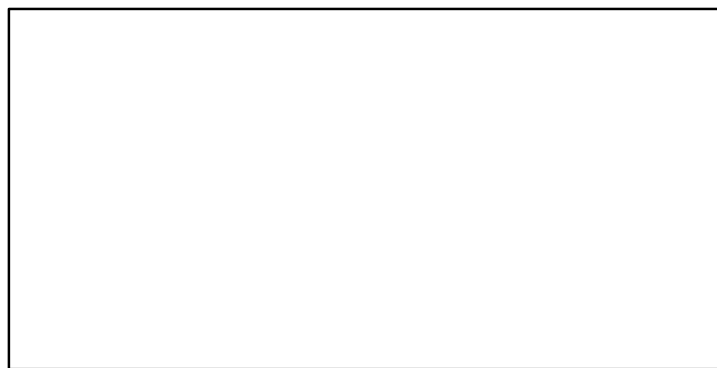
F-1/yr (1984-2023-HIVELY)



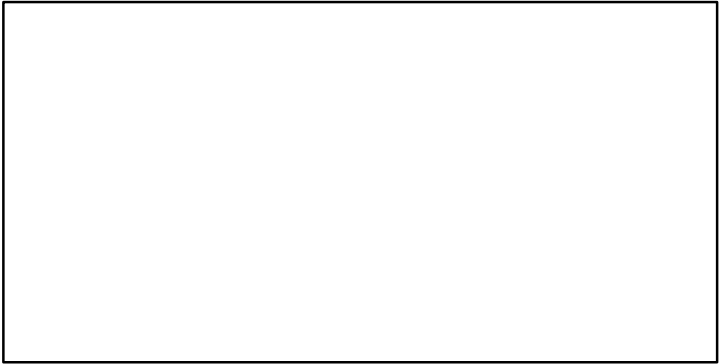
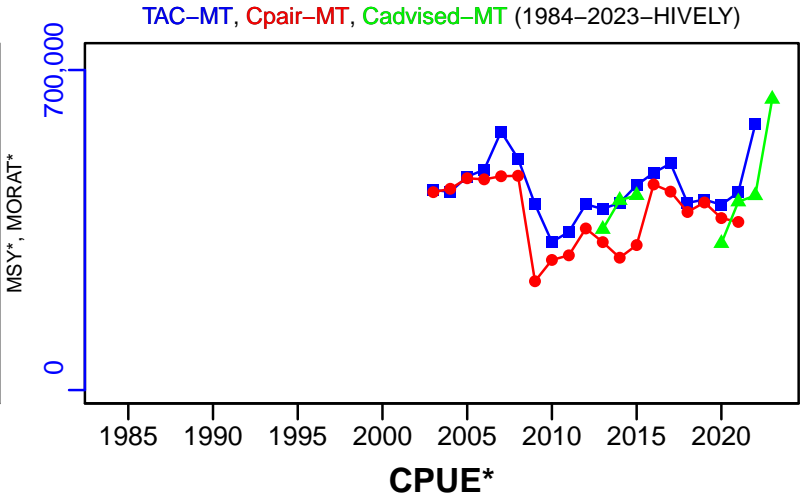
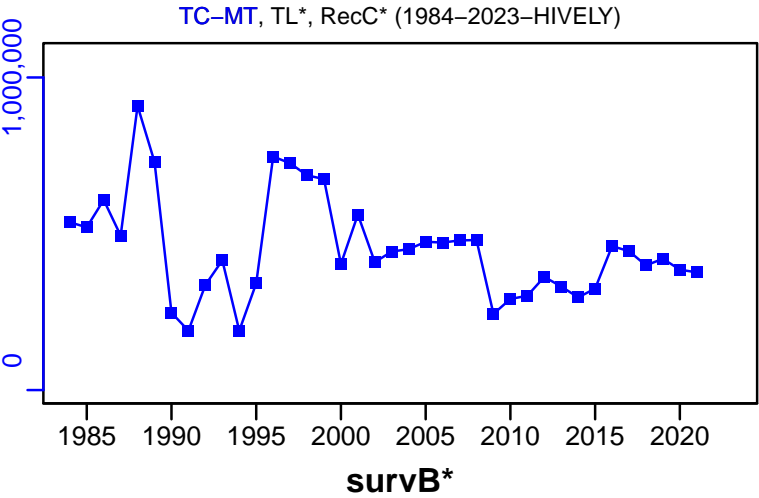
ER-ratio (1994-2004-JENSEN)



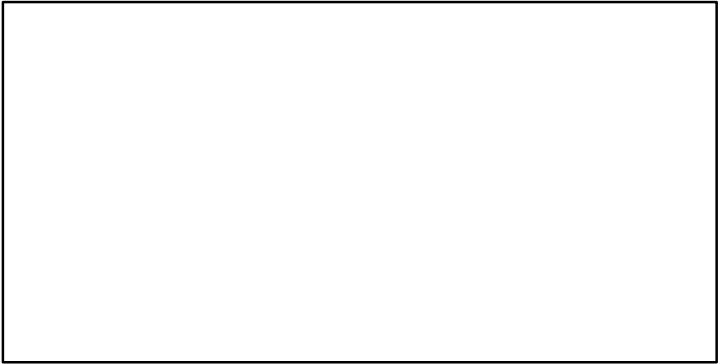
Recruits*



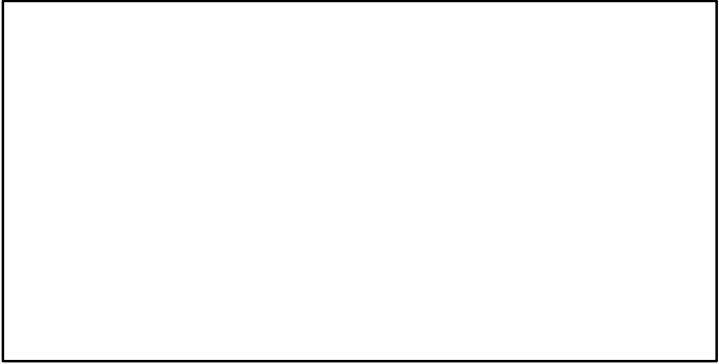
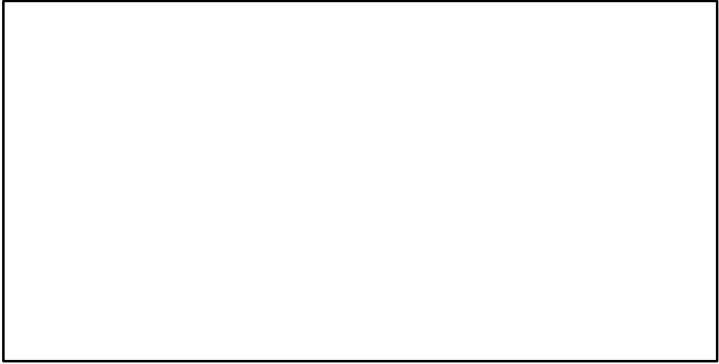
Walleye pollock Navarinsky [WPOLLNAVAR]



EFFORT*



CdivMSY*



Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

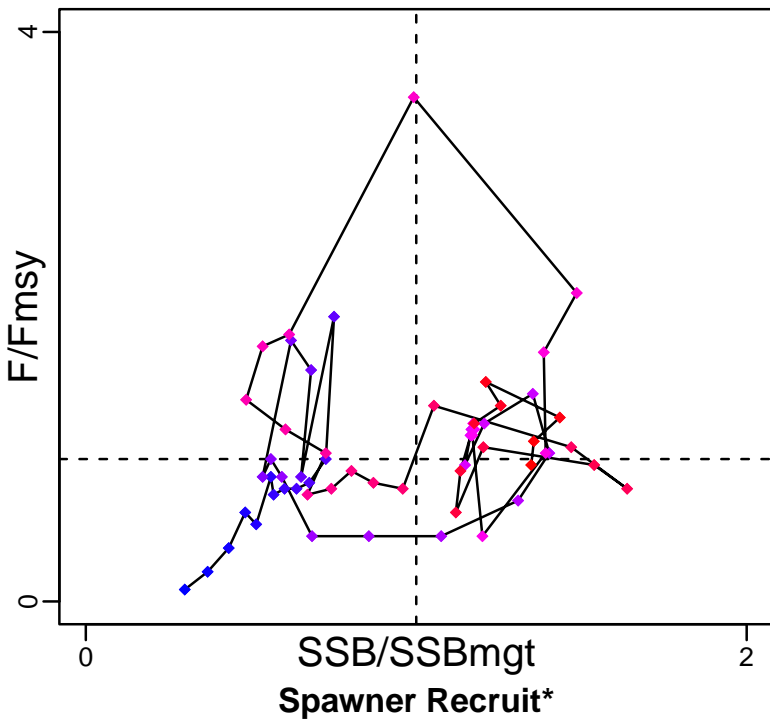
Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLNSO-1963-2023-HIVELY
Area	Northern Sea of Okhotsk
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2012, 2017, 2020, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	5,100,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	5,089,000
Fmgt	Fmgt-1/yr	2023	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	966,700
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	2,583,000
Flim	Flim-1/yr	2023	0.31
ERlim	-	-	-

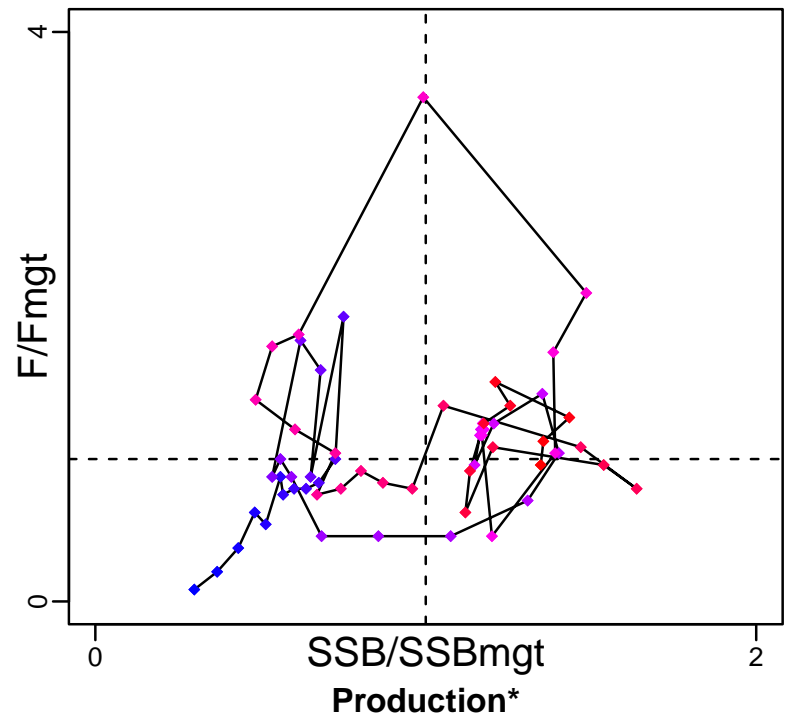
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	7,020,000	-	-
SSB	SSB-MT	2023	5,500,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2023	0.23	-	-
ER	ER-calc-ratio	2012	0.091	-	-
TC	TC-MT	2023	969,560		
TL	TL-MT	2017	883,000		
TB/TBmsy	TB-MT/TBmsy-MT	2012	1.376		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.958		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	1.081		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.958		
ER/ERmgt	-	-	-		

Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

Kobe MSYpref (1963–2023–HIVELY)

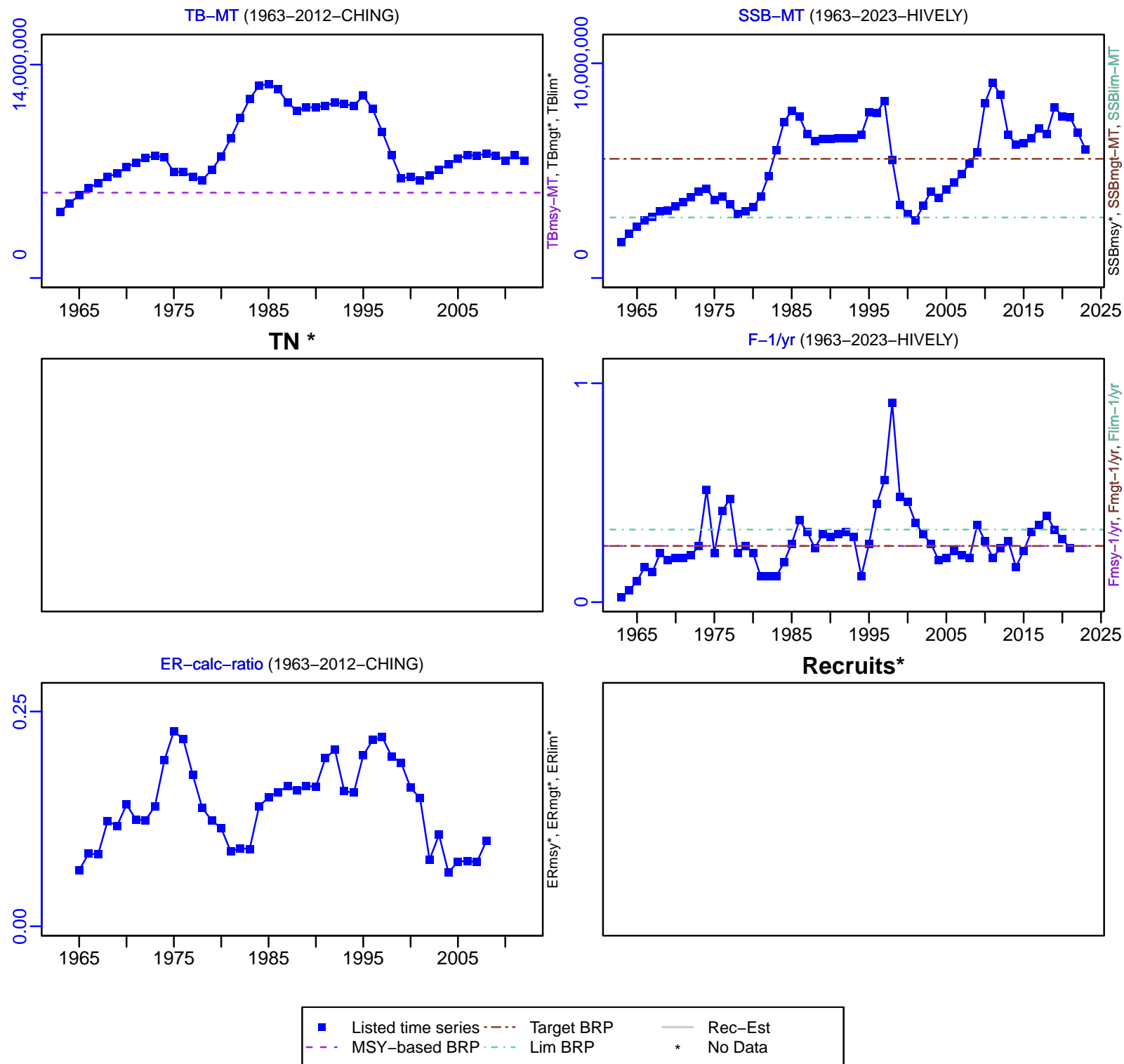


Kobe MGTpref (1963–2023–HIVELY)



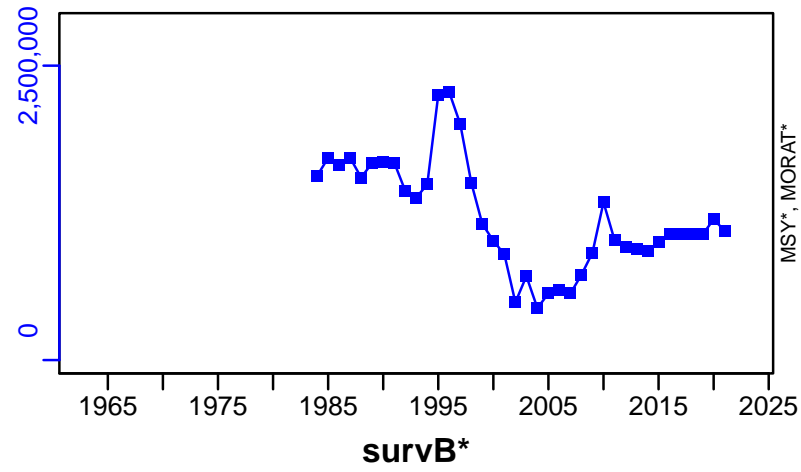
◆ Start Year ◆ End Year * No Data

Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

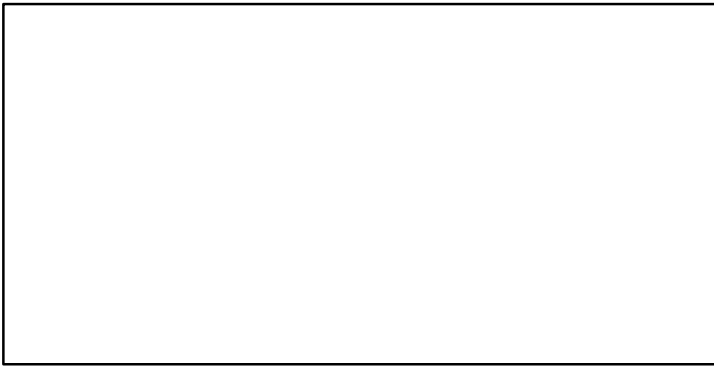
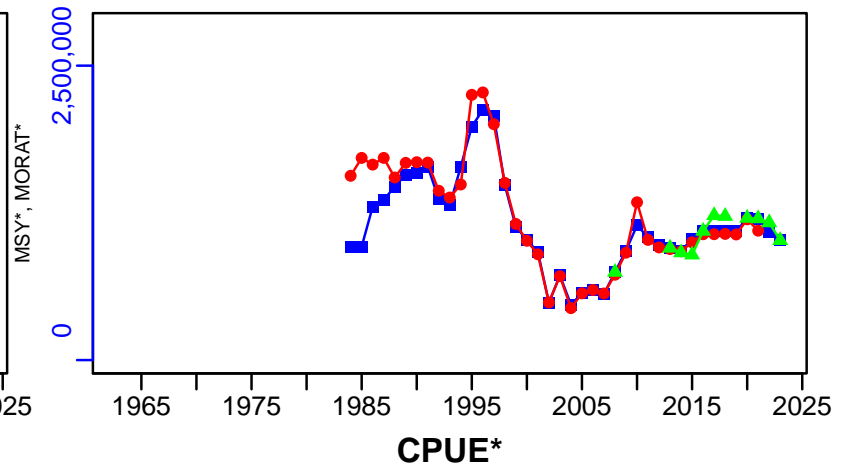


Walleye pollock Northern Sea of Okhotsk [WPOLLNSO]

TC-MT, TL*, RecC* (1963–2023–HIVELY)



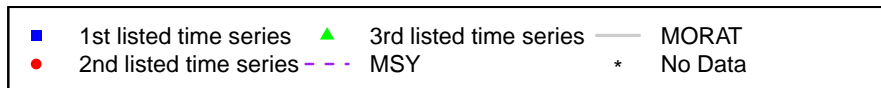
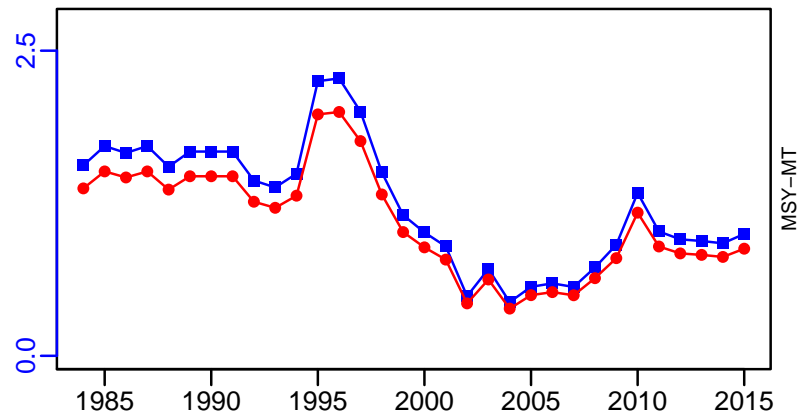
TAC-MT, Cpair-MT, Cadvised-MT (1963–2023–HIVELY)



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1963–2017–ASHBROOK)



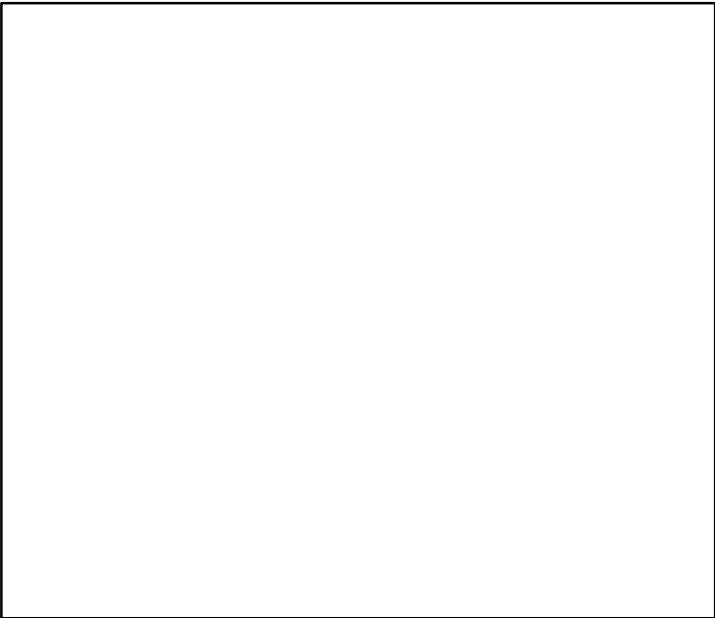
Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

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

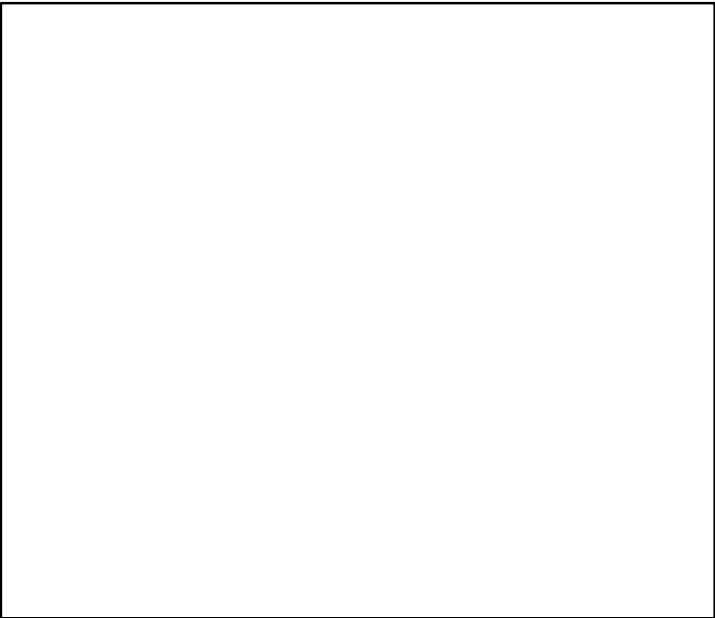
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

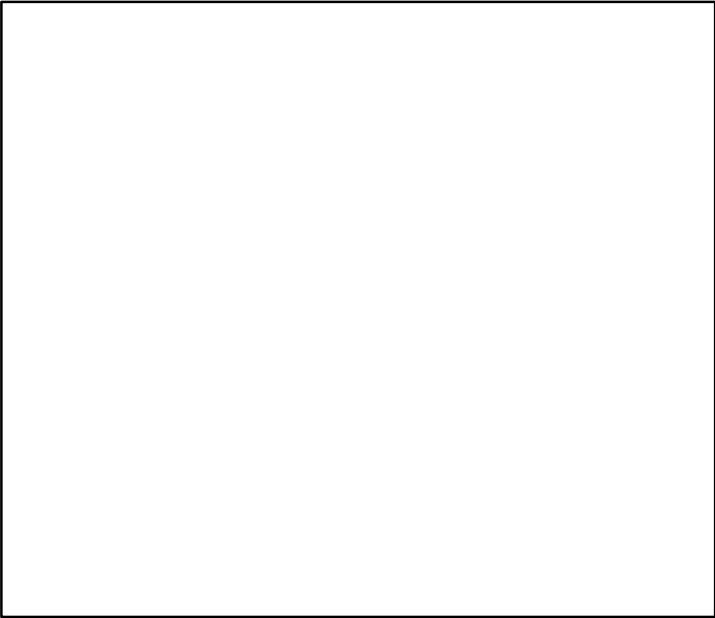
Kobe MSY*



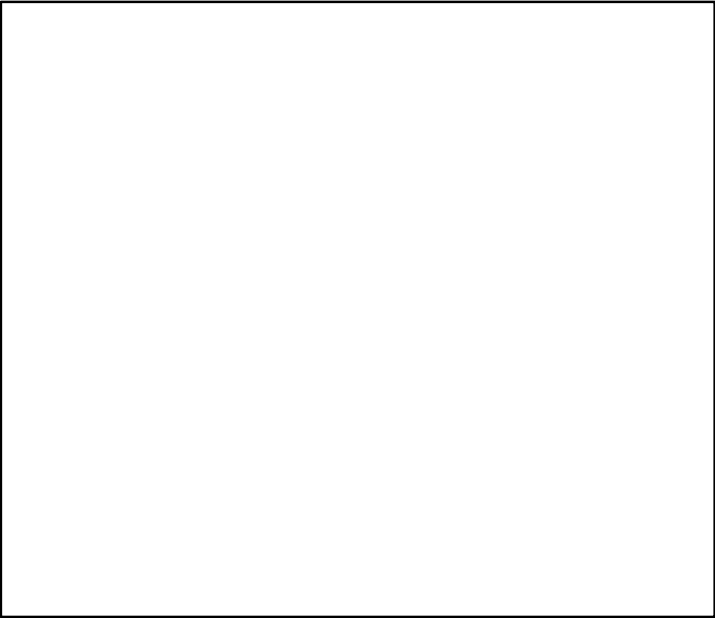
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

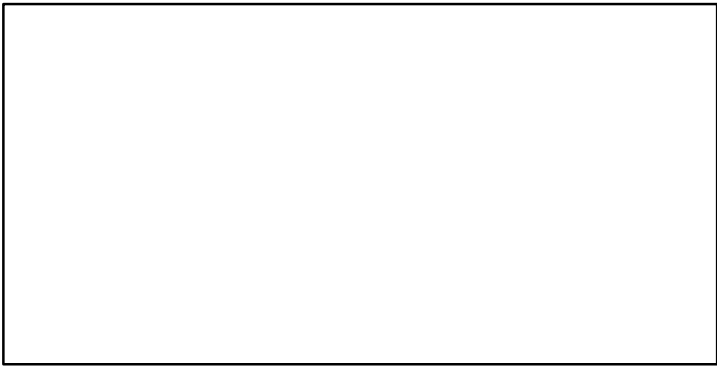
TB*



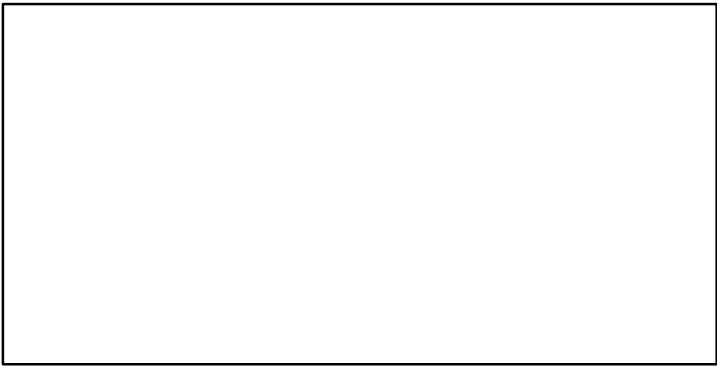
SSB*



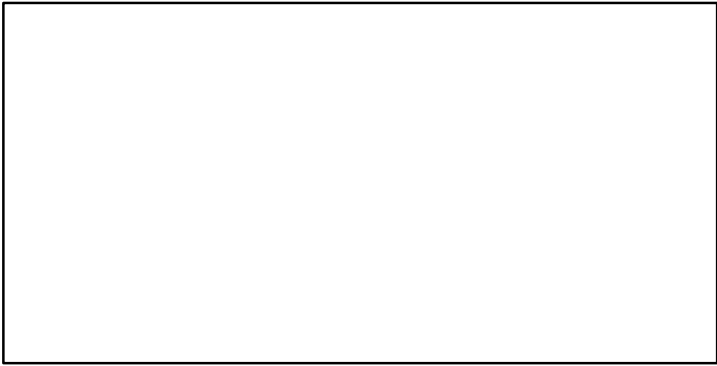
TN *



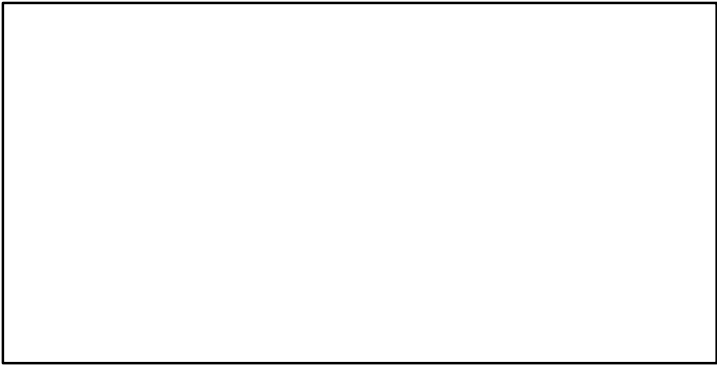
F*



ER*



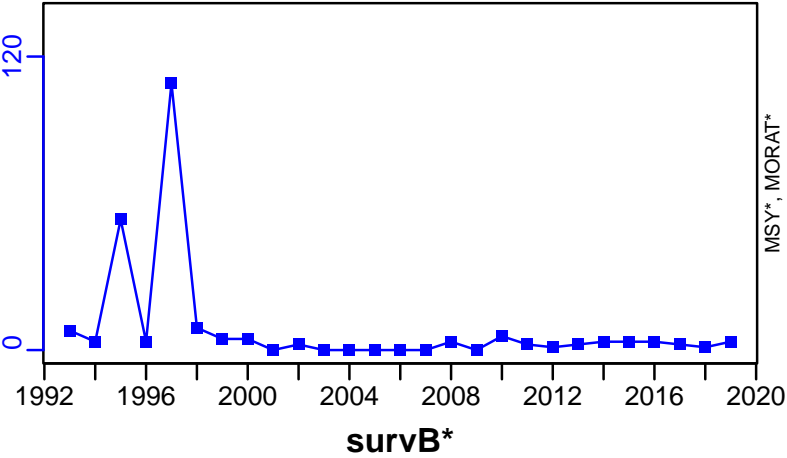
Recruits*



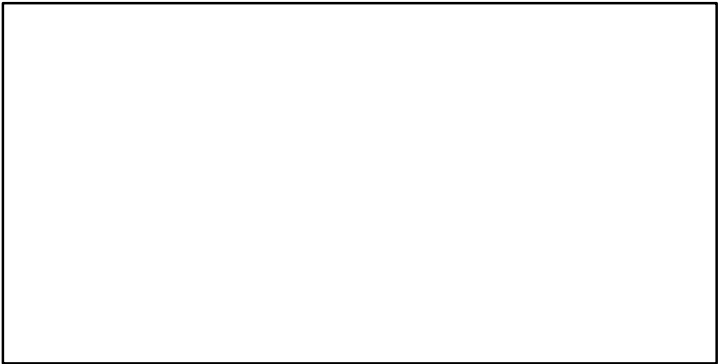
■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

Walleye pollock Southeast Gulf of Alaska [WPOLLSEGA]

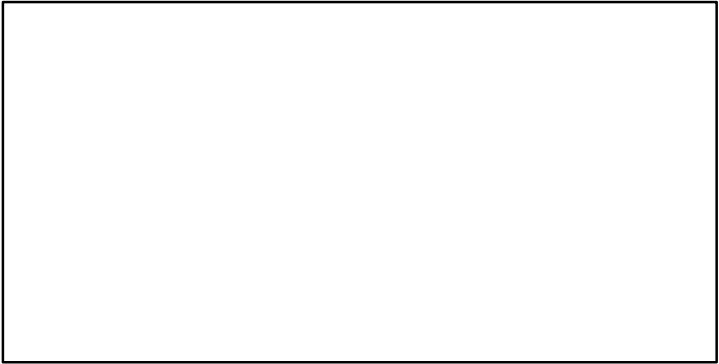
TC-MT, TL*, RecC* (1993-2019-SISIMP2021-2)



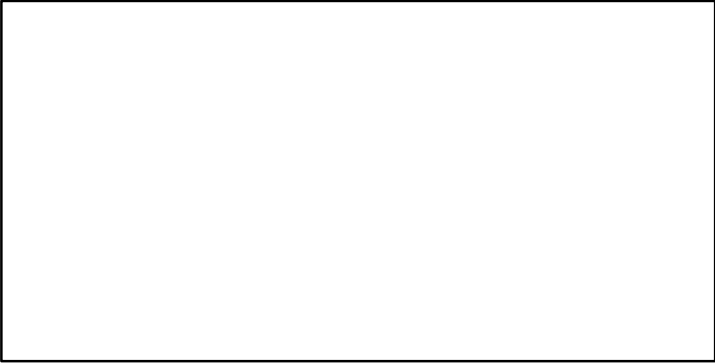
TAC*, Cpair*, Cadv*



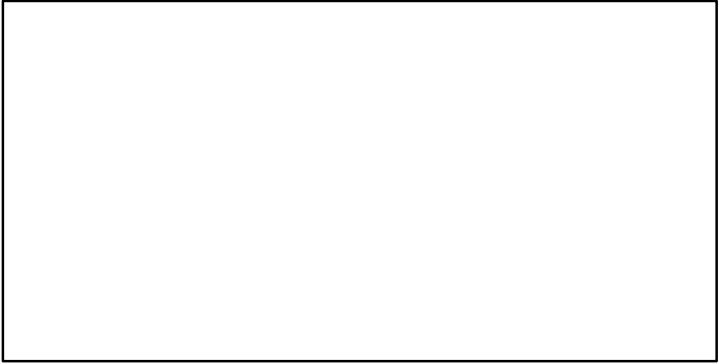
CPUE*



EFFORT*



CdivMSY*



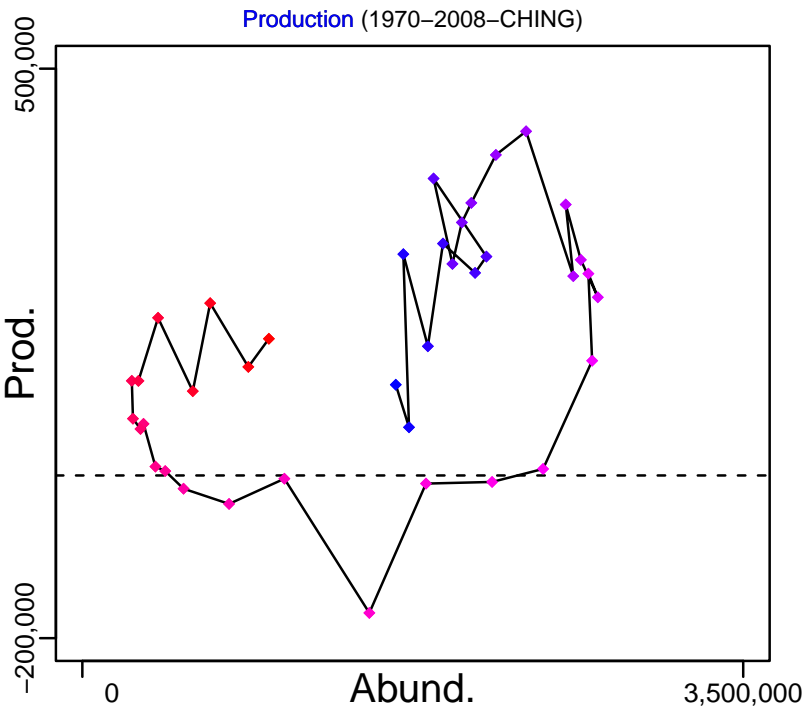
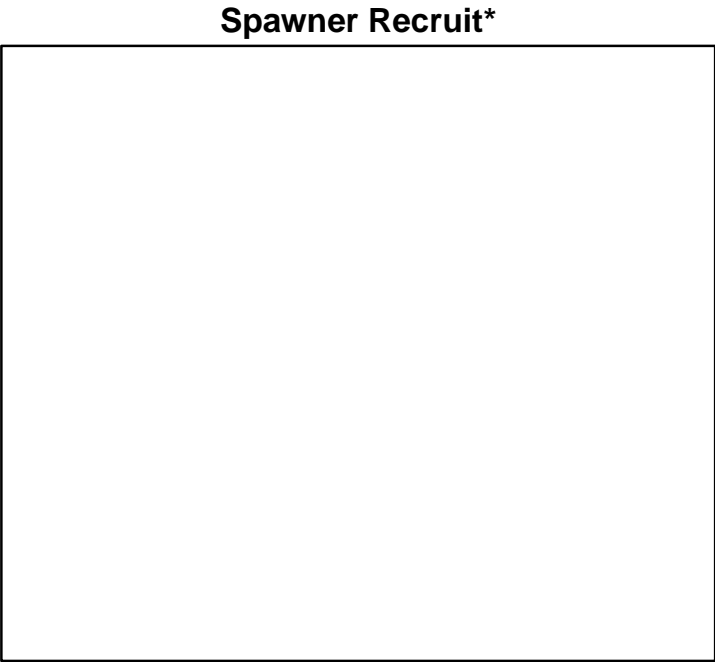
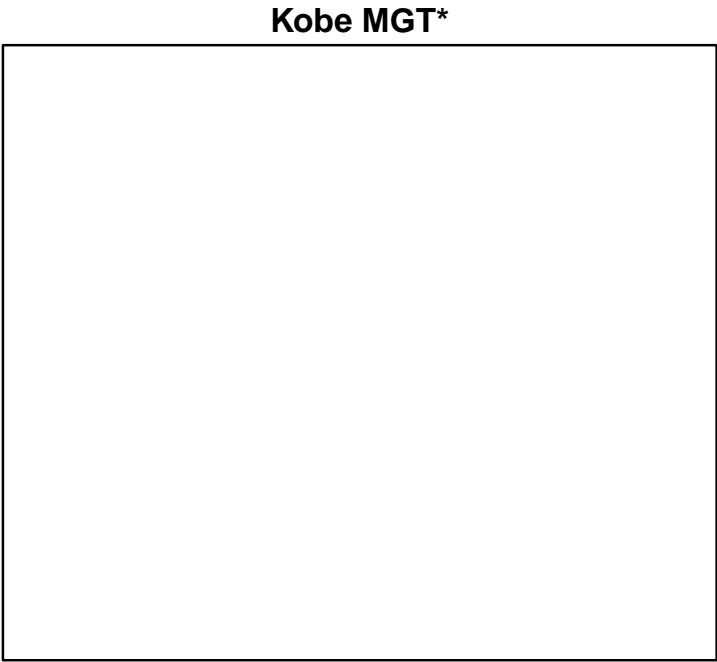
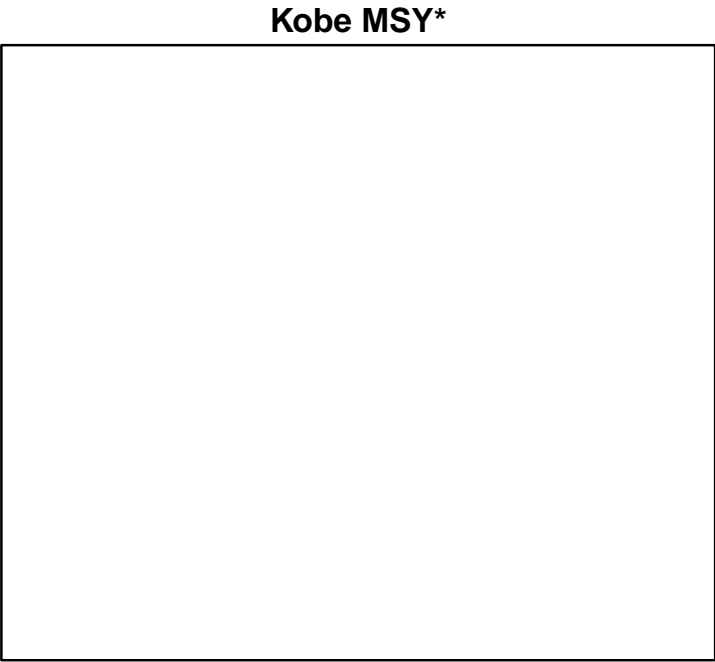
Walleye pollock Western Bering Sea [WPOLLWBS]

Metadata	
Scientific Name	Theragra chalcogramma
Current Assess ID	VNIRO-WPOLLWBS-1970-2021-HIVELY
Area	Western Bering Sea
Management Authority	Russian Federal Fisheries Agency, Russia national management
Assessor	Russian Federal Research Institute of Fisheries and Oceanography
Asmts in RAM	2008, 2016, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	362,000
Fmsy	Fmsy-1/yr	2008	0.126
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	362,900
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	145,900
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	954,000	-	-
SSB	SSB-MT	2021	223,900	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2008	0.108	-	-
TC	TC-MT	2021	22,000		
TL	TL-MT	2016	15,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.617		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

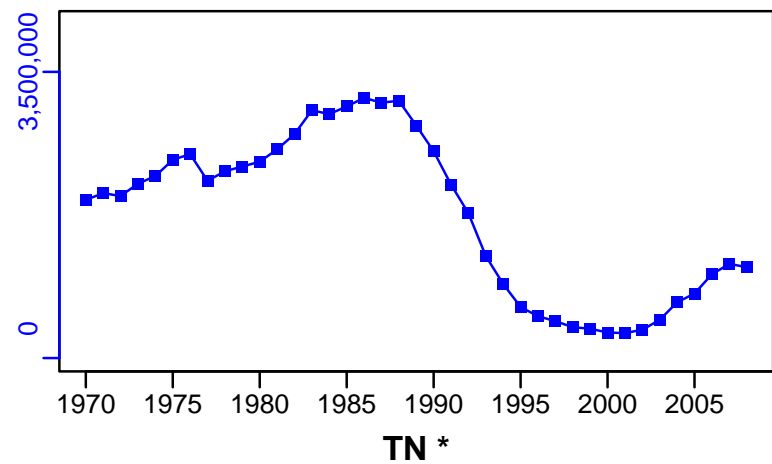
Walleye pollock Western Bering Sea [WPOLLWBS]



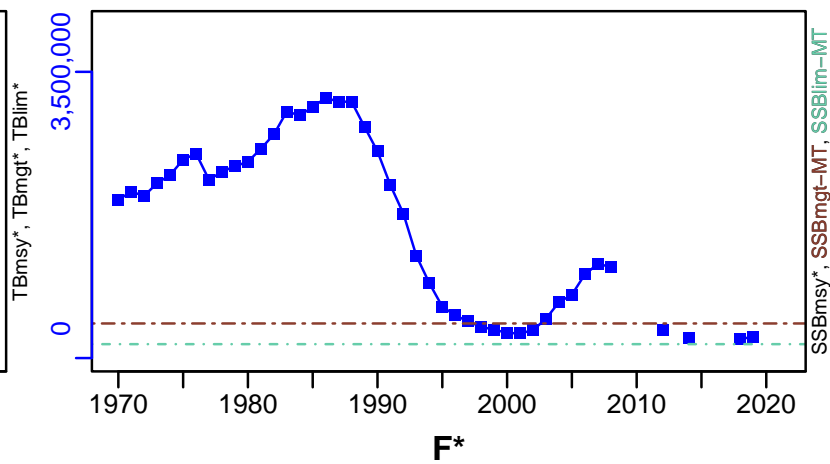
◆ Start Year ◆ End Year * No Data

Walleye pollock Western Bering Sea [WPOLLWBS]

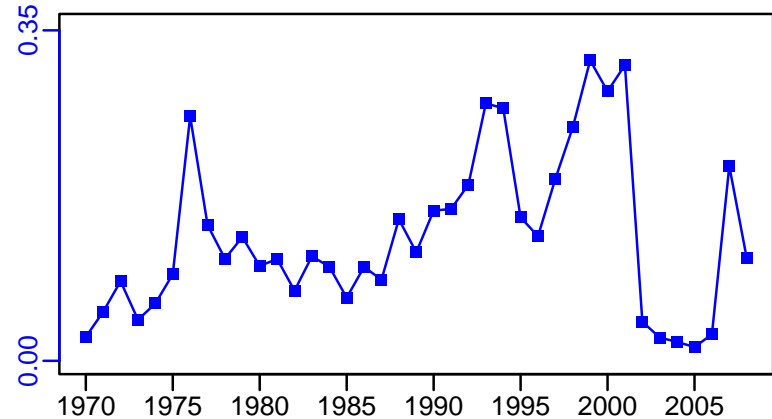
TB-MT (1970–2008–CHING)



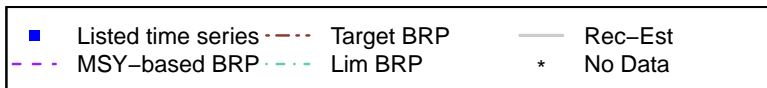
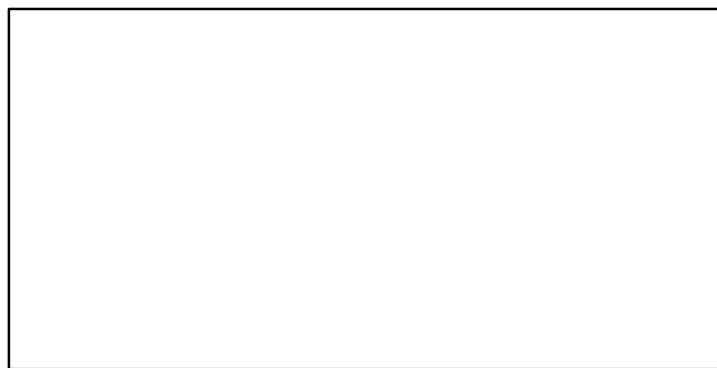
SSB-MT (1970–2021–HIVELY)



ER-calc-ratio (1970–2008–CHING)

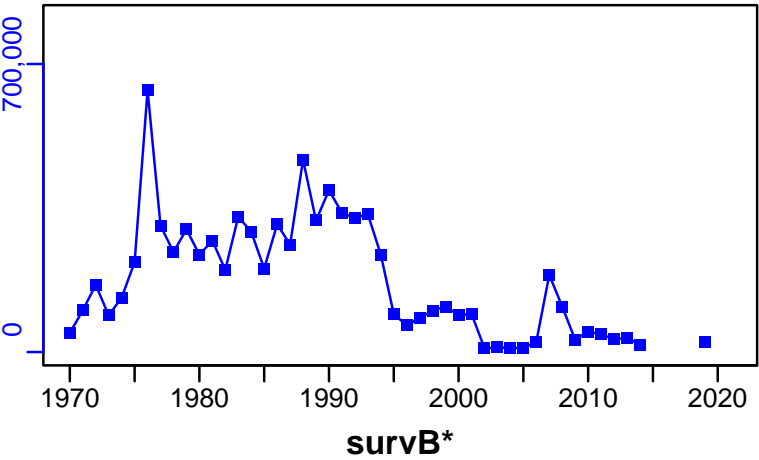


Recruits*

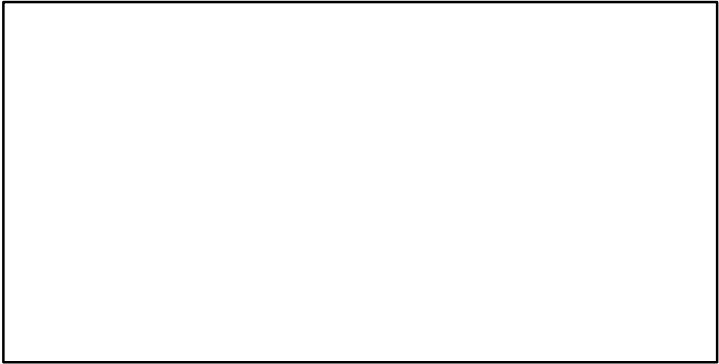
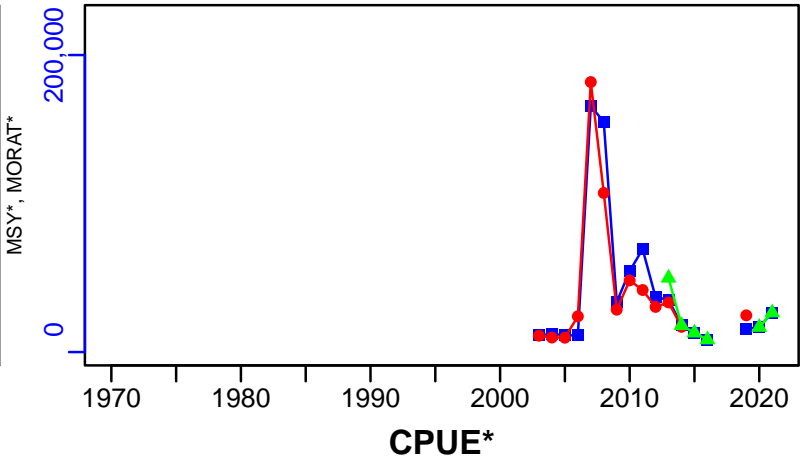


Walleye pollock Western Bering Sea [WPOLLWBS]

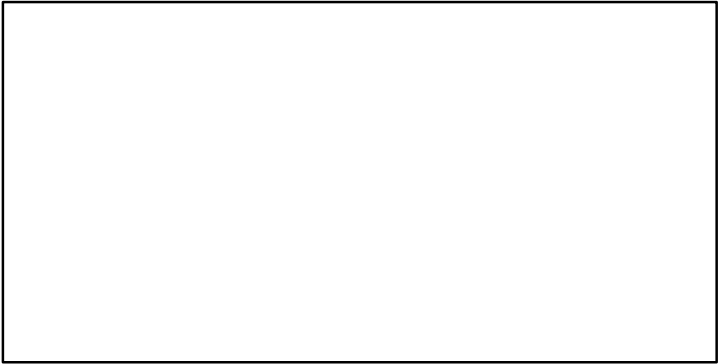
TC-MT, TL*, RecC* (1970-2021-HIVELY)



TAC-MT, Cpair-MT, Cadvised-MT (1970-2021-HIVELY)



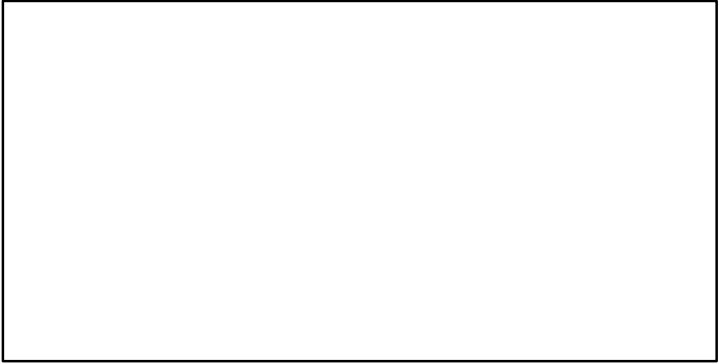
survB*



CPUE*



EFFORT*



CdivMSY*

