

European Union Stocks

v4.495 (Apr-17-2021)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ANCHIXa [Anchovy Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
2. ANCHOBAYB [Anchovy Bay of Biscay]	TB SSB	ER F	TB SSB	ER F	
3. ANGLVIIIc-IXa [Black bellied angler ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F	
4. ANGLVII-VIIIabd [Black bellied angler ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F	
5. ASHARNEATL [Angel shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
6. BERYXSPNEATL [Beryx spp Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
7. BJMACKXa2 [Blue jack mackerel Azores]	TB SSB	ER F	TB SSB	ER F	
8. BKSFNATL [Black scabbardfish Northeast Atlantic]	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. BLINGVb-VI-VII [Blue ling ICES 5b-6-7]	TB SSB	ER F	TB SSB	ER F	
11. BLRAYIVa-VI [Blonde ray ICES 4a-6]	TB SSB	ER F	TB SSB	ER F	
12. BLRAYIVc-VIId [Blonde ray ICES 4c-7d]	TB SSB	ER F	TB SSB	ER F	
13. BLRAYIXa [Blonde ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
14. BLRAYVIIafg [Blonde ray ICES 7afg]	TB SSB	ER F	TB SSB	ER F	
15. BLRAYVIIe [Blonde ray Western English Channel]	TB SSB	ER F	TB SSB	ER F	
16. BMDOGVIII-IXa [Blackmouth dogfish ICES 8-9a]	TB SSB	ER F	TB SSB	ER F	
17. BMDOGVI-VII [Blackmouth dogfish ICES 6-7]	TB SSB	ER F	TB SSB	ER F	
18. BOARVI-VIII [Boarfish ICES 6-8]	TB SSB	ER F	TB SSB	ER F	
19. BRILL2232 [Brill Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
20. BRILLIIIa-IV-VIId [Brill ICES 3a-4-7de]	TB SSB	ER F	TB SSB	ER F	
21. BSKSHARNEATL [Basking shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
22. BWHITNEA [Blue whiting Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
23. CKRAYIIIa-IV [Cuckoo ray ICES 3a-4]	TB SSB	ER F	TB SSB	ER F	
24. CKRAYIXa [Cuckoo ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
25. CKRAYVIIIc [Cuckoo ray Bay of Biscay -South]	TB SSB	ER F	TB SSB	ER F	
26. CKRAYVI-VII [Cuckoo ray ICES 6-7]	TB SSB	ER F	TB SSB	ER F	
27. CODBA2224 [Atlantic cod Western Baltic]	TB SSB	ER F	TB SSB	ER F	
28. CODBA2532 [Atlantic cod Eastern Baltic]	TB SSB	ER F	TB SSB	ER F	
29. CODIIIaW-IV-VIId [Atlantic cod ICES 3a(west)-4-7d]	TB SSB	ER F	TB SSB	ER F	
30. CODIS [Atlantic cod Irish Sea]	TB SSB	ER F	TB SSB	ER F	
31. CODKAT [Atlantic cod Kattegat]	TB SSB	ER F	TB SSB	ER F	
32. CODVIa [Atlantic cod West of Scotland]	TB SSB	ER F	TB SSB	ER F	
33. CODVIb [Atlantic cod Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
34. CODVIIek [Atlantic cod Celtic Sea]	TB SSB	ER F	TB SSB	ER F	
35. CUSKNEATL [Tusk Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
36. CUSKV a-XIV [Tusk ICES 5a-14]	TB SSB	ER F	TB SSB	ER F	
37. CUSKVIb [Tusk Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
38. CUSKXII [Tusk North of Azores]	TB SSB	ER F	TB SSB	ER F	
39. DAB2232 [Dab Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	

40. DABIIIa-IV [Dab ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
41. EBASSIVbc-VII [European seabass ICES 4bc-7]	TB SSB	ER F	TB SSB	ER F
42. EBASSVIa-VIIb-j [European seabass ICES 6a-7b-j]	TB SSB	ER F	TB SSB	ER F
43. EBASSVIIIab [European seabass ICES 8ab]	TB SSB	ER F	TB SSB	ER F
44. EBASSVIIIc-IXa [European seabass ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
45. EFLOUN2223 [European flounder Subdivisions 22-23]	TB SSB	ER F	TB SSB	ER F
46. EFLOUN2425 [European flounder Subdivisions 24-25]	TB SSB	ER F	TB SSB	ER F
47. EFLOUN26-28 [European flounder Subdivisions 26-28]	TB SSB	ER F	TB SSB	ER F
48. EFLOUN27-2932 [European flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F
49. EFLOUNIIIa-IV [European flounder ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
50. EPOLLIV-IIIa [European pollack ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
51. EPOLLVIII-IXa [European pollack ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
52. FMEG8c9a [Fourspotted megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
53. GFORKNEATL [Greater forkbeard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
54. GGURNIIIa-IV-VIId [Grey gurnard ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
55. GHALV-VI-XII-XIV [Greenland halibut ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
56. GOLDREDV-VI-XII-XIV [Golden redfish ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
57. GSSMELTI-II-IIIa-IV [Greater silver smelt ICES 1-2-3a-4]	TB SSB	ER F	TB SSB	ER F
58. GSSMELTVIb-VII-VIII-IX-X-XII [Greater silver smelt ICES 6b-7-8-9-10-12]	TB SSB	ER F	TB SSB	ER F
59. HADIS [Haddock Irish Sea]	TB SSB	ER F	TB SSB	ER F
60. HADNS-IIIa-VIa [Haddock ICES 3a-4-6a]	TB SSB	ER F	TB SSB	ER F
61. HADROCK [Haddock Rockall Bank]	TB SSB	ER F	TB SSB	ER F
62. HADVIIb-k [Haddock ICES 7b-k]	TB SSB	ER F	TB SSB	ER F
63. HAKENRTN [Hake ICES 3a-4-6-7-8abd]	TB SSB	ER F	TB SSB	ER F
64. HAKESOTH [Hake ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
65. HERR2224IIIa [Herring ICES 22-24-3a]	TB SSB	ER F	TB SSB	ER F
66. HERR2529-32 [Herring Subdivisions 25-29 and 32]	TB SSB	ER F	TB SSB	ER F
67. HERR30-31 [Herring Subdivisions 30-31]	TB SSB	ER F	TB SSB	ER F
68. HERRNIRS [Herring Irish Sea]	TB SSB	ER F	TB SSB	ER F
69. HERRNS-IIIa-VIId [Herring ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
70. HERRRIGA [Herring Gulf of Riga East of Gotland]	TB SSB	ER F	TB SSB	ER F
71. HERRSIRS [Herring ICES 7a-g-h-j-k]	TB SSB	ER F	TB SSB	ER F
72. HERRVIa [Herring West of Scotland]	TB SSB	ER F	TB SSB	ER F
73. HERRVIaVIIbc [Herring ICES 5a-7bc]	TB SSB	ER F	TB SSB	ER F
74. HMACKIIa-IVa-Vb-VIa-VII-VIII [Horse mackerel ICES 2a-4a-5b-6a-7-8]	TB SSB	ER F	TB SSB	ER F
75. HMACKIIIa-IVbc-VIId [Horse mackerel ICES 3a-4bc-7d]	TB SSB	ER F	TB SSB	ER F
76. HMACKIXa [Horse mackerel Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
77. KFSHARNEATL [Kitefin shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
78. LGSHARNEATL [Leafscale gulper shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
79. LINGNEATL [Ling Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
80. LSDOGIIIa-IV-VIId [Lesser spotted dogfish ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
81. LSDOGVIIIabd [Lesser spotted dogfish ICES 8abd]	TB SSB	ER F	TB SSB	ER F
82. LSDOGVIIIc-IXa [Lesser spotted dogfish ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
83. LSDOGVI-VIIabcefghij [Lesser spotted dogfish ICES 6-7abcefghij]	TB SSB	ER F	TB SSB	ER F
84. LSOLEIIIa-IV-VIId [Lemon sole ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
85. MACKNEICES [Mackerel ICES Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
86. MEG8c9a [Megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F

87. MEGSPPIVa-VIa [Megrim spp ICES 4a-6a]	TB SSB	ER F	TB SSB	ER F
88. MEGSPPVlb [Megrim spp Rockall Bank]	TB SSB	ER F	TB SSB	ER F
89. MEGVII-VIIIab [Megrim ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F
90. NEPHFU10 [Norway lobster Noup (FU 10)]	TB SSB	ER F	TB SSB	ER F
91. NEPHFU11 [Norway lobster North Minch (FU 11)]	TB SSB	ER F	TB SSB	ER F
92. NEPHFU12 [Norway lobster South Minch (FU 12)]	TB SSB	ER F	TB SSB	ER F
93. NEPHFU13 [Norway lobster Firth of Clyde and Sound of Jura (FU 13)]	TB SSB	ER F	TB SSB	ER F
94. NEPHFU14 [Norway lobster Irish Sea East (FU 14)]	TB SSB	ER F	TB SSB	ER F
95. NEPHFU15 [Norway lobster Irish Sea West (FU 15)]	TB SSB	ER F	TB SSB	ER F
96. NEPHFU16 [Norway lobster Porcupine Bank (FU 16)]	TB SSB	ER F	TB SSB	ER F
97. NEPHFU17 [Norway lobster Aran Grounds (FU 17)]	TB SSB	ER F	TB SSB	ER F
98. NEPHFU19 [Norway lobster South East and West of IRL (FU 19)]	TB SSB	ER F	TB SSB	ER F
99. NEPHFU2021 [Norway lobster Labadie, Jones and Cockburn (FU 20-21)]	TB SSB	ER F	TB SSB	ER F
100. NEPHFU22 [Norway lobster Smalls (FU 22)]	TB SSB	ER F	TB SSB	ER F
101. NEPHFU25 [Norway lobster North Galicia (FU 25)]	TB SSB	ER F	TB SSB	ER F
102. NEPHFU2627 [Norway lobster West Galicia and North Portugal (FU 26-27)]	TB SSB	ER F	TB SSB	ER F
103. NEPHFU2829 [Norway lobster South-West and South Portugal (FU 28-29)]	TB SSB	ER F	TB SSB	ER F
104. NEPHFU30 [Norway lobster Gulf of Cadiz (FU 30)]	TB SSB	ER F	TB SSB	ER F
105. NEPHFU31 [Norway lobster Cantabrian Sea (FU 31)]	TB SSB	ER F	TB SSB	ER F
106. NEPHFU32 [Norway lobster Norwegian Deep (FU 32)]	TB SSB	ER F	TB SSB	ER F
107. NEPHFU33 [Norway lobster Off Horn Reef (FU 33)]	TB SSB	ER F	TB SSB	ER F
108. NEPHFU34 [Norway lobster Devils Hole (FU 34)]	TB SSB	ER F	TB SSB	ER F
109. NEPHFU3-4 [Norway lobster Skagerrak Kattegat (FU 3-4)]	TB SSB	ER F	TB SSB	ER F
110. NEPHFU5 [Norway lobster Botney Cut - Silver Pit (FU 5)]	TB SSB	ER F	TB SSB	ER F
111. NEPHFU6 [Norway lobster Farn Deep (FU 6)]	TB SSB	ER F	TB SSB	ER F
112. NEPHFU7 [Norway lobster Fladen Ground (FU 7)]	TB SSB	ER F	TB SSB	ER F
113. NEPHFU8 [Norway lobster Firth of Forth (FU 8)]	TB SSB	ER F	TB SSB	ER F
114. NEPHFU9 [Norway lobster Moray Firth (FU 9)]	TB SSB	ER F	TB SSB	ER F
115. NEPHIV [Norway lobster North Sea]	TB SSB	ER F	TB SSB	ER F
116. NEPHVIa [Norway lobster West of Scotland]	TB SSB	ER F	TB SSB	ER F
117. NEPHVII [Norway lobster ICES 7]	TB SSB	ER F	TB SSB	ER F
118. NEPHVIIIab [Norway lobster ICES 8ab]	TB SSB	ER F	TB SSB	ER F
119. NPOUTIIIa-IV [Norway pout ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
120. NPOUTVIa [Norway pout West of Scotland]	TB SSB	ER F	TB SSB	ER F
121. OROUGHYNEATL [Orange roughy Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
122. PANDALIIIaW-IVaE [Northern shrimp ICES 3a(west)-4a(east)]	TB SSB	ER F	TB SSB	ER F
123. PANDALIVa [Northern shrimp Northern North Sea]	TB SSB	ER F	TB SSB	ER F
124. PLAIC2123 [European plaice Subdivisions 21-23]	TB SSB	ER F	TB SSB	ER F
125. PLAIC2432 [European plaice Subdivisions 24-32]	TB SSB	ER F	TB SSB	ER F
126. PLAIC7d [European plaice Eastern English Channel]	TB SSB	ER F	TB SSB	ER F
127. PLAICCELT [European plaice Celtic Sea]	TB SSB	ER F	TB SSB	ER F
128. PLAICECHW [European plaice Western English Channel]	TB SSB	ER F	TB SSB	ER F
129. PLAICIS [European plaice Irish Sea]	TB SSB	ER F	TB SSB	ER F
130. PLAICNS [European plaice North Sea]	TB SSB	ER F	TB SSB	ER F
131. PLAICVIIbc [European plaice ICES 7bc]	TB SSB	ER F	TB SSB	ER F

132. PLAICVIIh-k [European plaice ICES 7h-k]	TB SSB	ER F	TB SSB	ER F
133. PLAICVIII-IXa [European plaice ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
134. POLLNS-VI-IIIa [Pollock ICES 3a-4-6]	TB SSB	ER F	TB SSB	ER F
135. PORSHARNEATL [Porbeagle shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
136. RBRMIX [Red seabream ICES 9]	TB SSB	ER F	TB SSB	ER F
137. RBRMVI-VII-VIII [Red seabream ICES 6-7-8]	TB SSB	ER F	TB SSB	ER F
138. RBRMX [Red seabream Azores Grounds]	TB SSB	ER F	TB SSB	ER F
139. REDDEEPXIVb [Beaked redfish Southeast Greenland]	TB SSB	ER F	TB SSB	ER F
140. RGURNNEATL [Red gurnard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
141. RHGRENNEATL [Roughhead grenadier Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
142. 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
143. RNGENMATLR [Roundnose grenadier Mid-Atlantic Ridge]	TB SSB	ER F	TB SSB	ER F
144. RGENVb-VI-VII-XIIb [Roundnose grenadier ICES 5b-6-7-12b]	TB SSB	ER F	TB SSB	ER F
145. RNGRENIIIa [Roundnose grenadier Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
146. SARDPVIIc-IXa [Sardine ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
147. SARDVII [Sardine ICES 7]	TB SSB	ER F	TB SSB	ER F
148. SARDVIIIab [Sardine ICES 8ab]	TB SSB	ER F	TB SSB	ER F
149. SDRAYVI-VII [Sandy ray ICES 6-7]	TB SSB	ER F	TB SSB	ER F
150. SEELNSSA1 [Sand eel Sandeel Area 1]	TB SSB	ER F	TB SSB	ER F
151. SEELNSSA2 [Sand eel Sandeel Area 2]	TB SSB	ER F	TB SSB	ER F
152. SEELNSSA3 [Sand eel Sandeel Area 3]	TB SSB	ER F	TB SSB	ER F
153. SEELNSSA4 [Sand eel Sandeel Area 4]	TB SSB	ER F	TB SSB	ER F
154. SEELNSSA5 [Sand eel Sandeel Area 5]	TB SSB	ER F	TB SSB	ER F
155. SEELNSSA6 [Sand eel Sandeel Area 6]	TB SSB	ER F	TB SSB	ER F
156. SEELNSSA7 [Sand eel Sandeel Area 7]	TB SSB	ER F	TB SSB	ER F
157. SEELVIa [Sand eel West of Scotland]	TB SSB	ER F	TB SSB	ER F
158. SERAYVIIde [Smalleyed ray ICES 7de]	TB SSB	ER F	TB SSB	ER F
159. SERAYVII-f-g [Smalleyed ray Celtic Sea]	TB SSB	ER F	TB SSB	ER F
160. SGRAYVI-VII [Shagreen ray ICES 6-7]	TB SSB	ER F	TB SSB	ER F
161. SHSPNEATL [Smooth hound Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
162. SOLECS [Common sole Celtic Sea]	TB SSB	ER F	TB SSB	ER F
163. SOLEIIa-2224 [Common sole ICES 22-24-3a]	TB SSB	ER F	TB SSB	ER F
164. SOLEIS [Common sole Irish Sea]	TB SSB	ER F	TB SSB	ER F
165. SOLENS [Common sole North Sea]	TB SSB	ER F	TB SSB	ER F
166. SOLEVIIbc [Common sole ICES 7bc]	TB SSB	ER F	TB SSB	ER F
167. SOLEVIIde [Common sole Eastern English Channel]	TB SSB	ER F	TB SSB	ER F
168. SOLEVIIe [Common sole Western English Channel]	TB SSB	ER F	TB SSB	ER F
169. SOLEVIIh-k [Common sole ICES 7h-k]	TB SSB	ER F	TB SSB	ER F
170. SOLEVIIlab [Common sole ICES 8ab]	TB SSB	ER F	TB SSB	ER F
171. SOLEVIIlc-IXa [Common sole ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
172. SPRAT22-32 [Sprat Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
173. SPRATIIa-IV [Sprat ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
174. SPRATVIIde [Sprat ICES 7de]	TB SSB	ER F	TB SSB	ER F
175. SPRATVI-VIIabcfghijk [Sprat ICES 6-7abcfghijk]	TB SSB	ER F	TB SSB	ER F
176. SPRAYIIa-IV-VIIde [Spotted ray ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
177. SPRAYIXa [Spotted ray Portuguese Waters -East]	TB SSB	ER F	TB SSB	ER F
178. SPRAYVIIaefgh [Spotted ray ICES 7aefgh]	TB SSB	ER F	TB SSB	ER F
179. SPRAYVIII [Spotted ray Bay of Biscay]	TB SSB	ER F	TB SSB	ER F

180. SPRAYVI-VIIbj [Spotted ray ICES 6-7bj]	TB SSB	ER F	TB SSB	ER F
181. SPURDNEATL [Spurdog Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
182. STRAYII-IIIa-IV [Starry ray ICES 2-3a-4]	TB SSB	ER F	TB SSB	ER F
183. STRMULLIIIa-IV-VIId [Striped red mullet ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
184. STRMULLVI-VIIabcefgghijk-VIII-IXa [Striped red mullet ICES 6-7abcefgghijk-8-9a]	TB SSB	ER F	TB SSB	ER F
185. STROUT22-32 [Sea trout Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
186. TBSKAIIIa-IV-VIId [Thornback skate ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
187. TBSKAIXa [Thornback skate Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
188. TBSKAVI [Thornback skate ICES 6]	TB SSB	ER F	TB SSB	ER F
189. TBSKAVIIafg [Thornback skate ICES 7afg]	TB SSB	ER F	TB SSB	ER F
190. TBSKAVIIe [Thornback skate Western English Channel]	TB SSB	ER F	TB SSB	ER F
191. TBSKAVIII [Thornback skate Bay of Biscay]	TB SSB	ER F	TB SSB	ER F
192. TPSHARNEATL [Tope shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
193. TUR2232 [Turbot Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
194. TURIIIa [Turbot Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
195. TURIV [Turbot North Sea]	TB SSB	ER F	TB SSB	ER F
196. URAYVIIde [Undulate ray ICES 7de]	TB SSB	ER F	TB SSB	ER F
197. URAYVIIIab [Undulate ray ICES 8ab]	TB SSB	ER F	TB SSB	ER F
198. WANGLVIIIc-IXa [White anglerfish ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
199. WANGLVII-VIIIabd [White anglerfish ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F
200. WHITIIIa [Whiting Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
201. WHITNS-VIId [Whiting ICES 4-7d]	TB SSB	ER F	TB SSB	ER F
202. WHITVIa [Whiting West of Scotland]	TB SSB	ER F	TB SSB	ER F
203. WHITVIb [Whiting Rockall Bank]	TB SSB	ER F	TB SSB	ER F
204. WHITVIIa [Whiting Irish Sea]	TB SSB	ER F	TB SSB	ER F
205. WHITVIIbce-k [Whiting Celtic Sea]	TB SSB	ER F	TB SSB	ER F
206. WHITVIII-IXa [Whiting ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
207. WITFLOUNIIIa-IV-VIId [Witch flounder ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F

Anchovy Portuguese Waters -East [ANCHIXa]

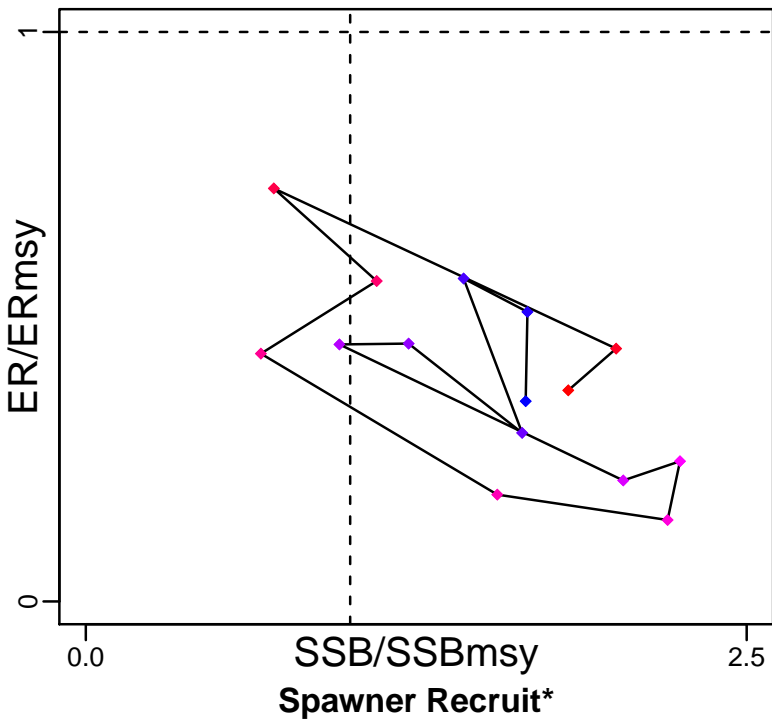
Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHIXa-1989-2019-ICESIMP2021
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016, 2016, 2018, 2019, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2016	14,904
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.683
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2019	0.504
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	10,892
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	1440
Flim	-	-	-
ERlim	-	-	-

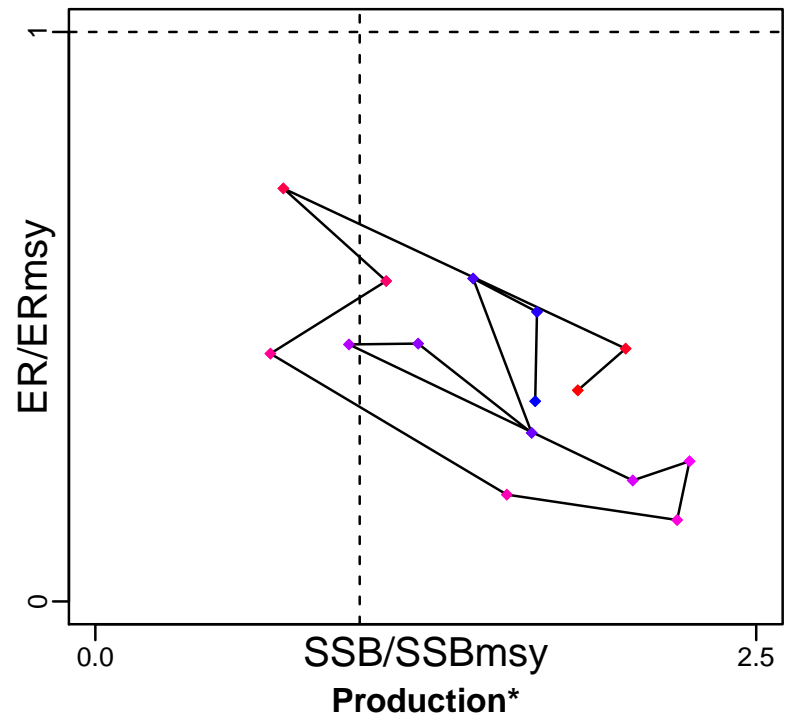
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2019	0.972	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2019	0.449	-	0 to 3
ER	ER-ratio	2016	0.253	-	-
TC	TC-MT	2019	15,799		
TL	TL-MT	2019	15,770		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	3.341		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2016	0.371		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Anchovy Portugese Waters –East [ANCHIXa]

Kobe MSYpref (1989–2016–ICESIMP2018)



Kobe MGTpref (1989–2016–ICESIMP2018)



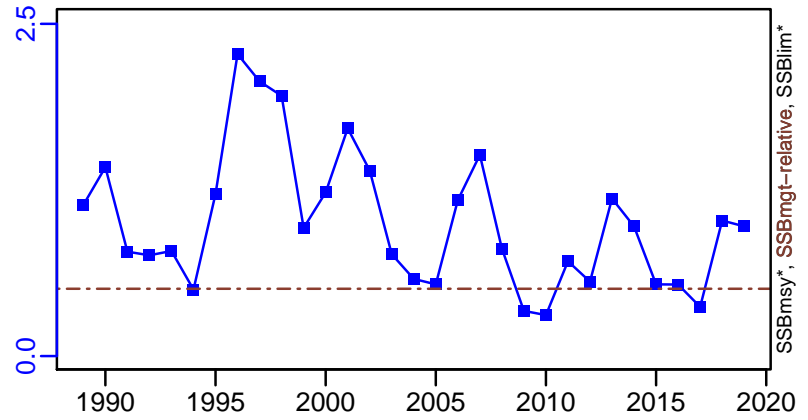
◆ Start Year ◆ End Year * No Data

Anchovy Portuguese Waters –East [ANCHIXa]

TB*



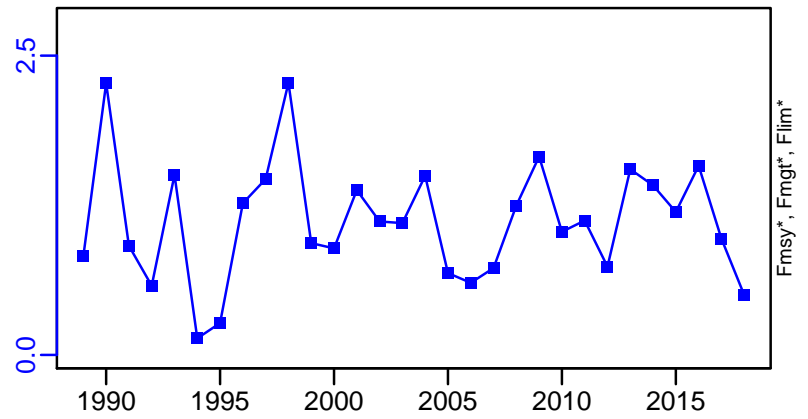
SSB-relative (1989–2019–ICESIMP2021)



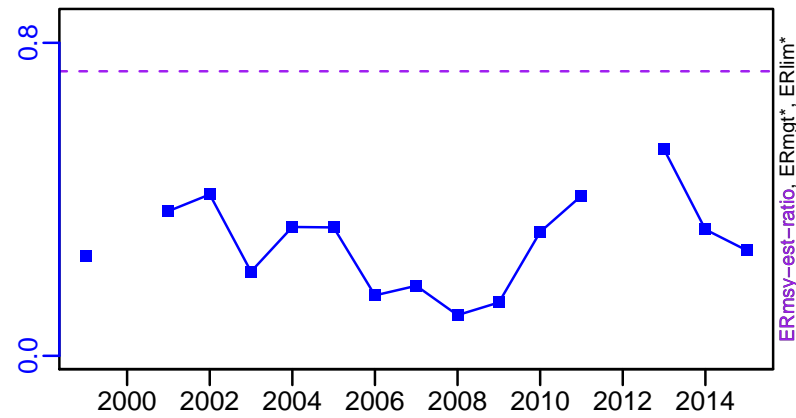
TN *



F-relative (1989–2019–ICESIMP2021)



ER-ratio (1989–2016–ICESIMP2018)

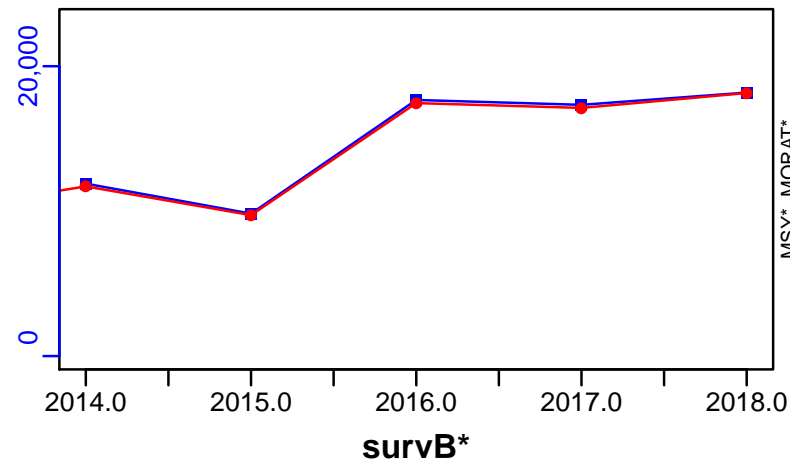


Recruits*



Anchovy Portuguese Waters –East [ANCHIXa]

TC–MT, TL–MT, RecC* (1989–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB*



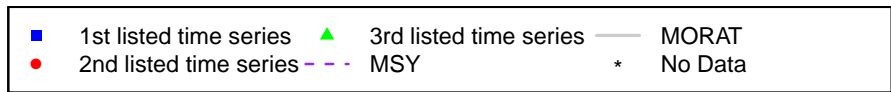
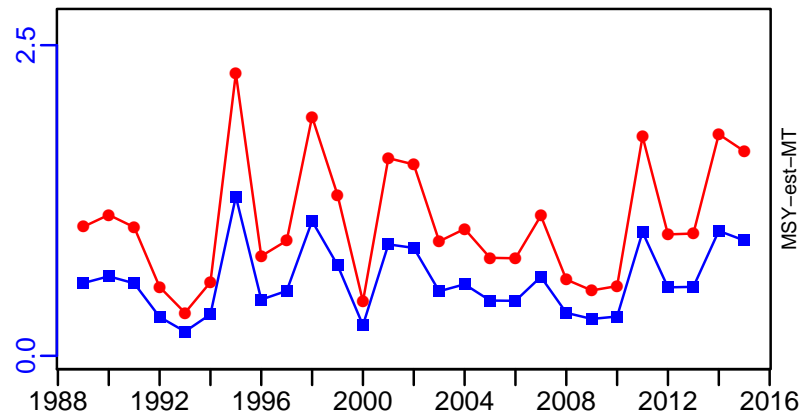
CPUE*



EFFORT*



TL–MT/MSY–est–MT, CdivMEANC–ratio, (1989–2016–ICESIMP2018)



Anchovy Bay of Biscay [ANCHOBAYB]

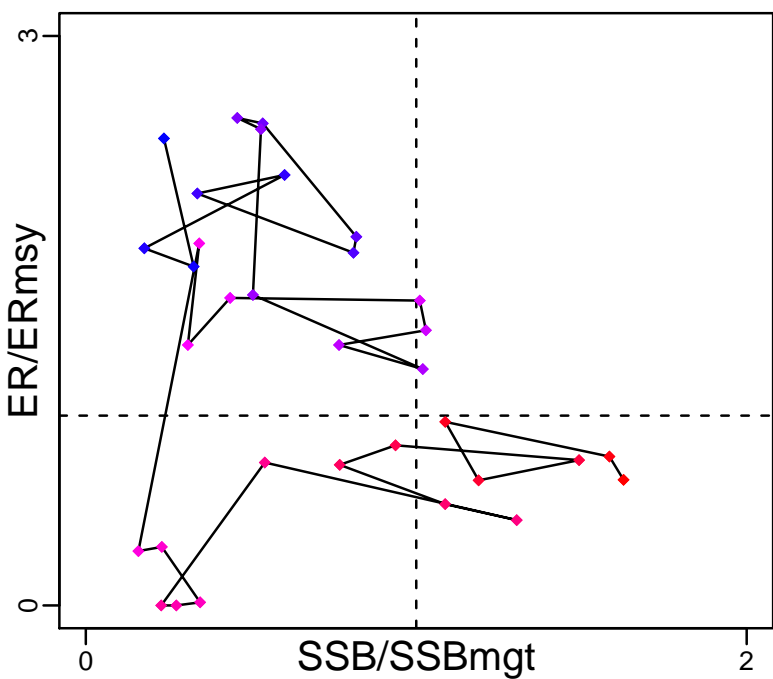
Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHOBAYB-1986-2019-ICESIMP2021
Area	Bay of Biscay
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	49,781
SSBmsy	SSBmsy-est-MT	2015	50,742
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.278
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	89,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	35,421
M	M-1/yr	2007	1.2
TBlim	TBlim-MT	2014	21,000
SSBlim	SSBlim-MT	2017	21,000
Flim	-	-	-
ERlim	-	-	-

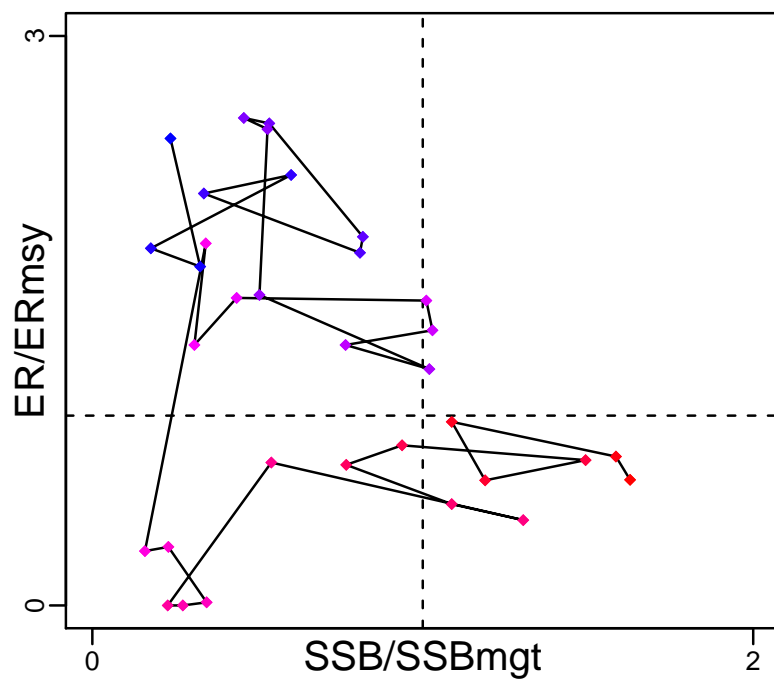
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	153,000	Both	-
SSB	SSB-MT	2019	144,834	-	-
TN	-	-	-	-	-
R	R-E00	2019	33,706	-	1
F	F-1/yr	2014	0.222	-	1+
ER	ER-ratio	2019	0.184	-	2+
TC	TC-MT	2019	26,622		
TL	TL-MT	2019	25,743		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.33		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2015	2.897		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2019	0.662		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.627		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Anchovy Bay of Biscay [ANCHOBAYB]

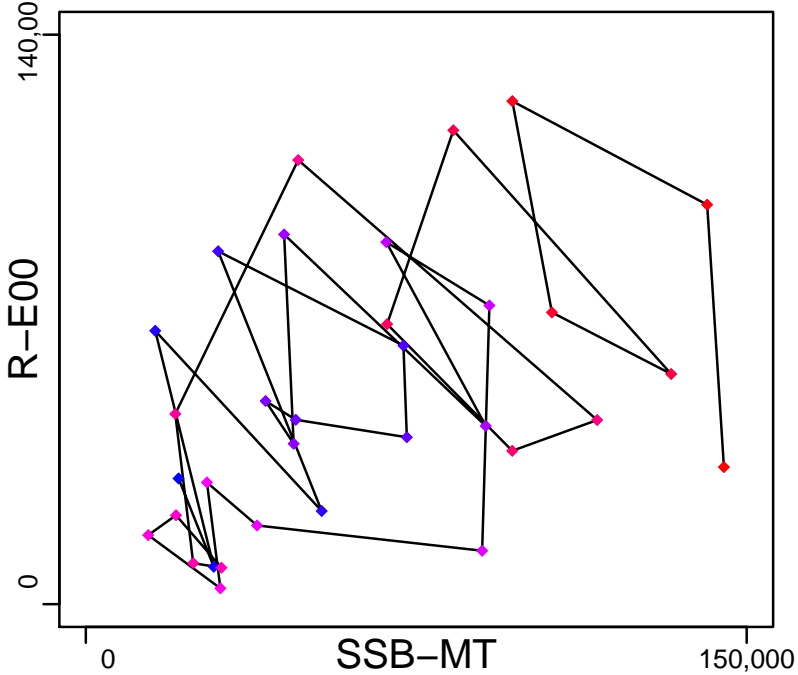
Kobe MSYpref (1986–2019–ICESIMP2021)



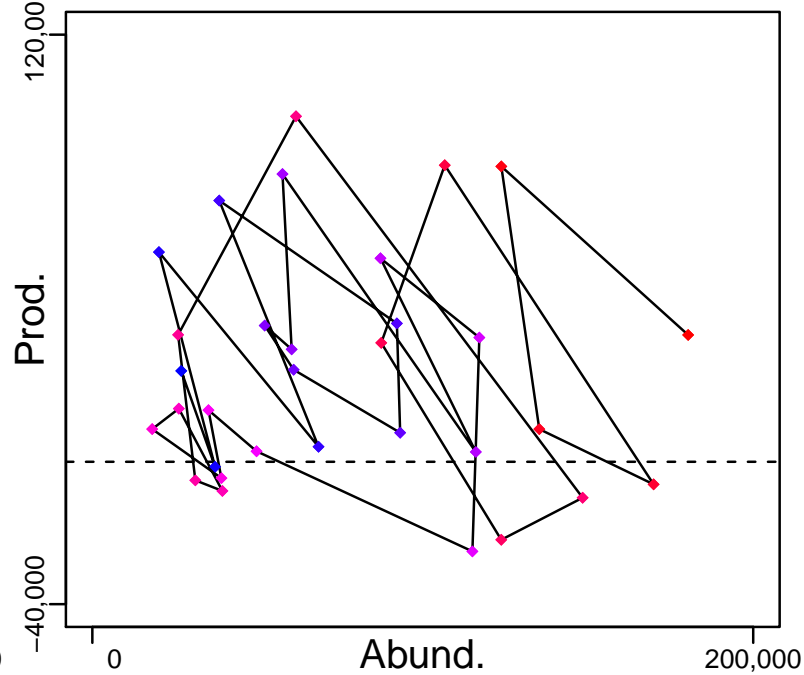
Kobe MGTpref (1986–2019–ICESIMP2021)



Spawner Recruit (1986–2019–ICESIMP2021)



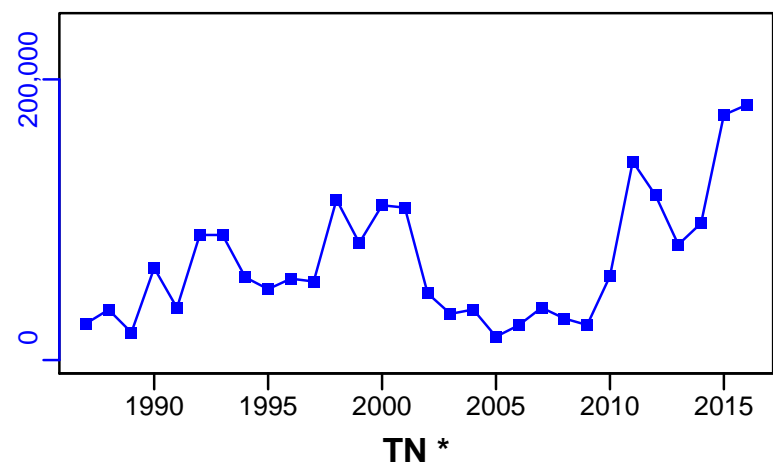
Production (1986–2019–ICESIMP2021)



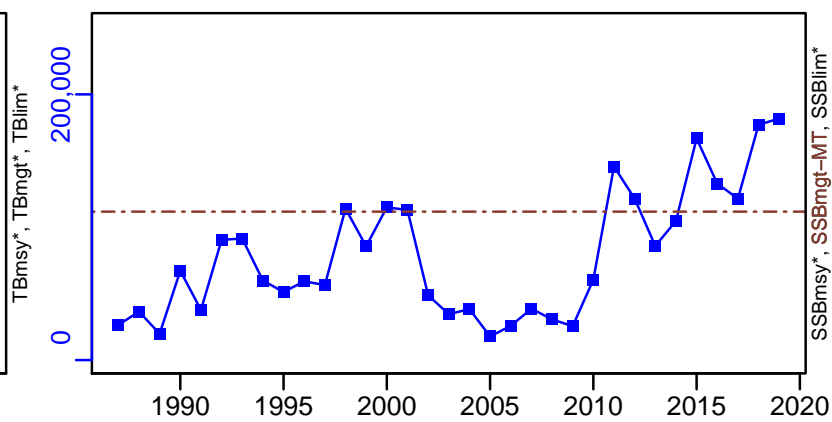
◆ Start Year ◆ End Year * No Data

Anchovy Bay of Biscay [ANCHOBAYB]

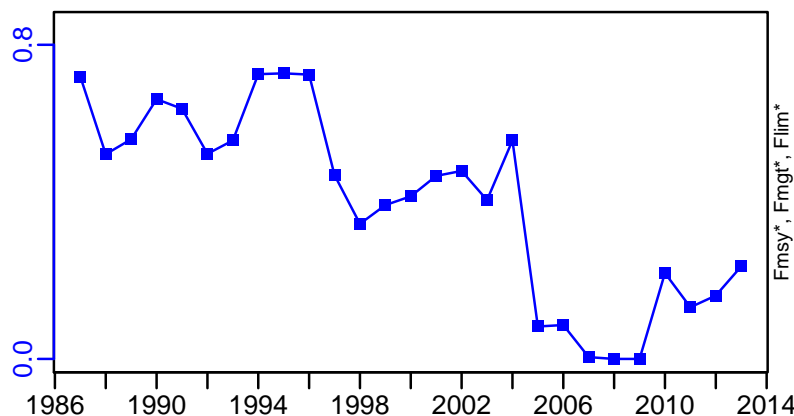
TB-MT (1986–2016–ICESIMP2018)



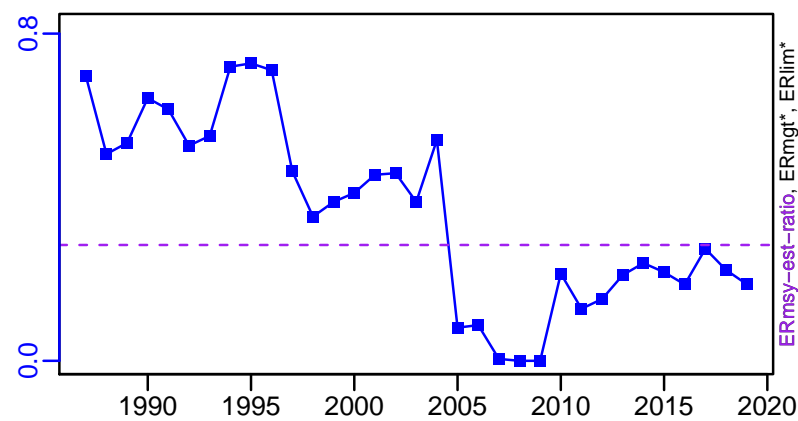
SSB-MT (1986–2019–ICESIMP2021)



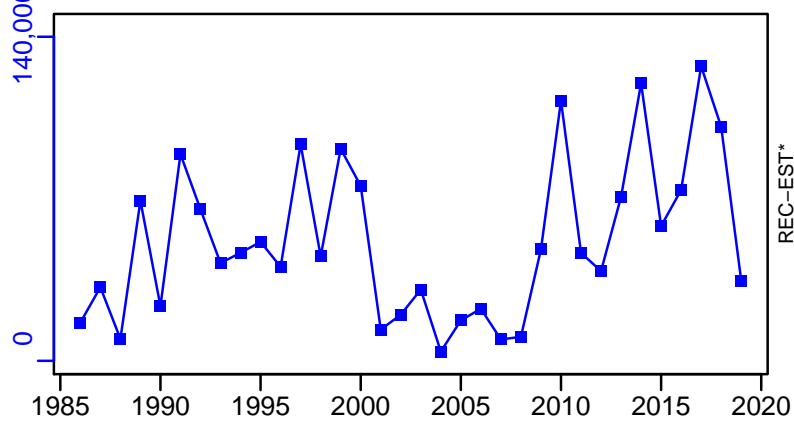
F-1/yr (1986–2014–ICESIMP2016)



ER-ratio (1986–2019–ICESIMP2021)

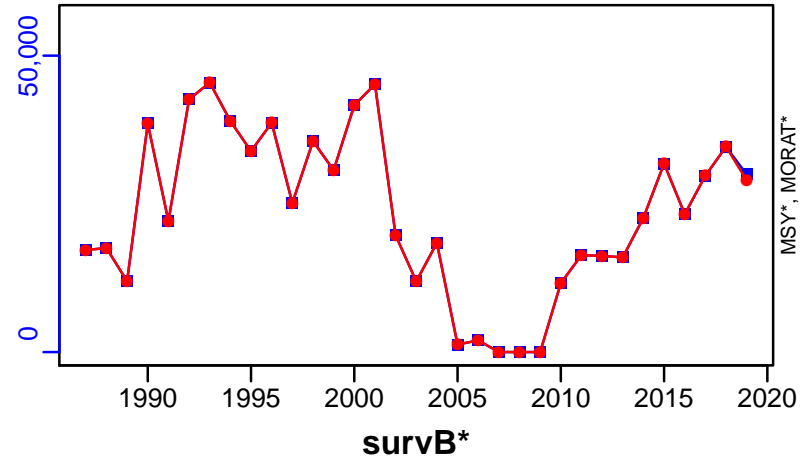


R-E00 (1986–2019–ICESIMP2021)



Anchovy Bay of Biscay [ANCHOBAYB]

TC-MT, TL-MT, RecC* (1986–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



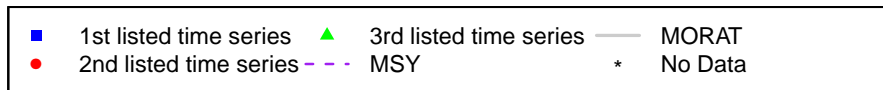
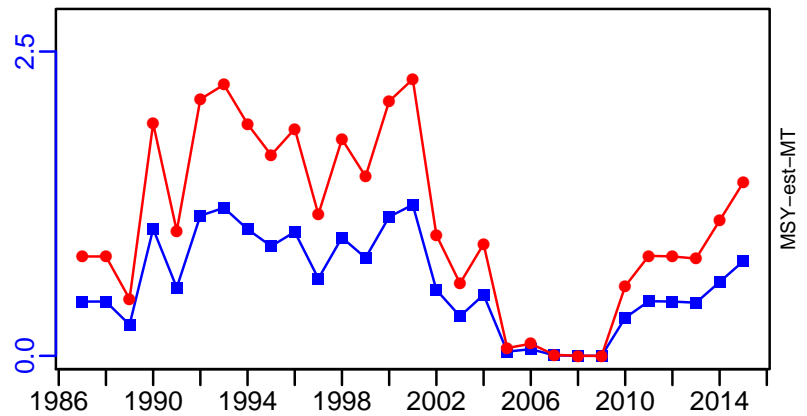
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1986–2015–ICESIMP2016)



Black bellied angler ICES 8c-9a [ANGLVIIIc-IXa]

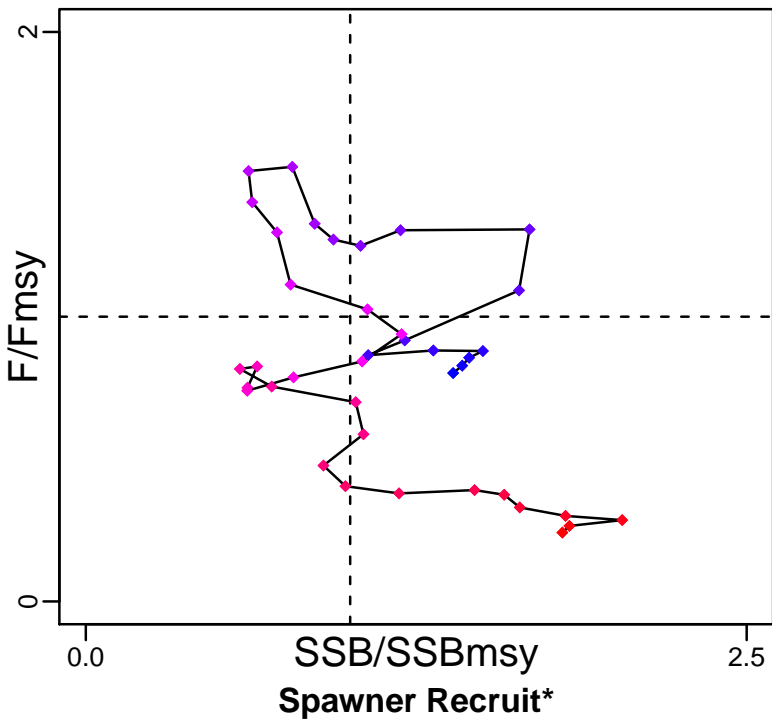
Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVIIIc-IXa-1978-2019-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2019, 2014, 2015, 2016, 2017, 2018, 2011, 2012, 2013

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

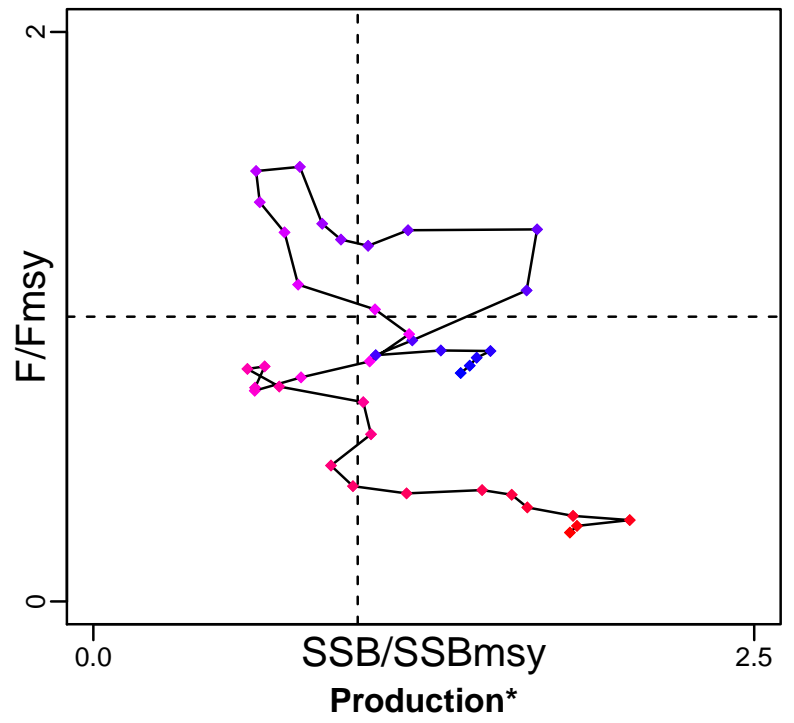
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	1.38	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2018	0.342	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	764		
TB/TBmsy	TBdivTBmsy-dimensionless	2017	1.2		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	1.702		
F/Fmsy	FdivFmsy-dimensionless	2019	0.242		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black bellied angler ICES 8c–9a [ANGLVIIIc–IXa]

Kobe MSYpref (1978–2019–ICESIMP2021)



Kobe MGTpref (1978–2019–ICESIMP2021)



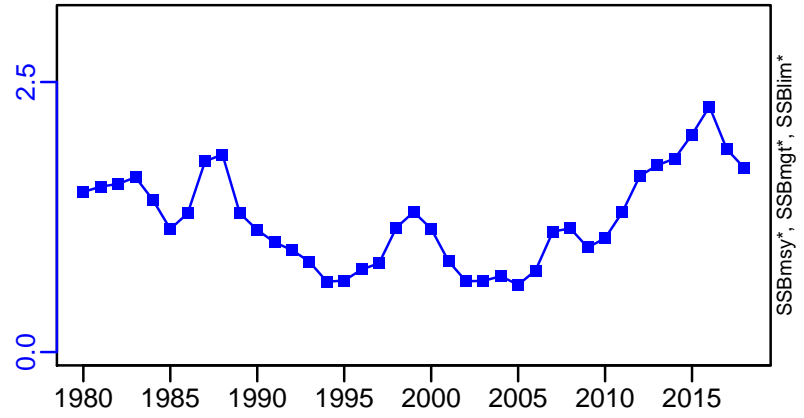
◆ Start Year ◆ End Year * No Data

Black bellied angler ICES 8c–9a [ANGLVIIIc–IXa]

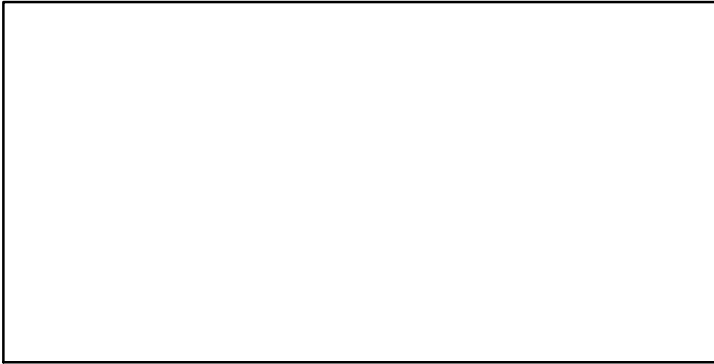
TB*



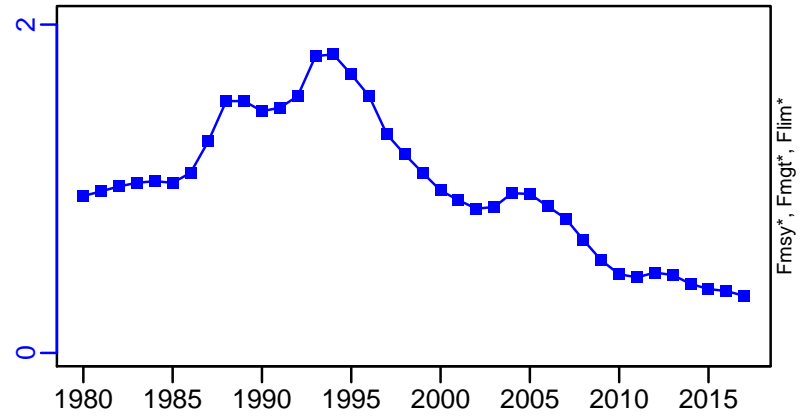
SSB-relative (1980–2018–ICESIMP2018)



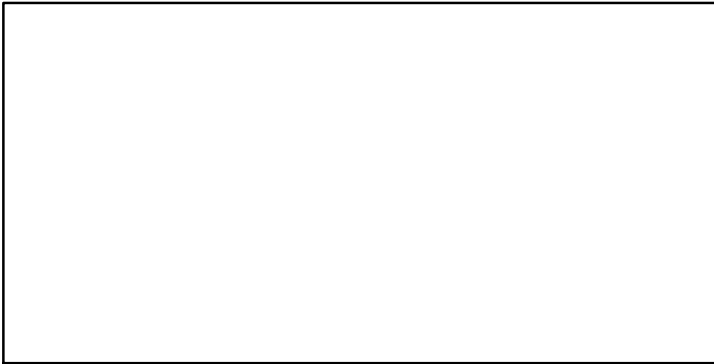
TN *



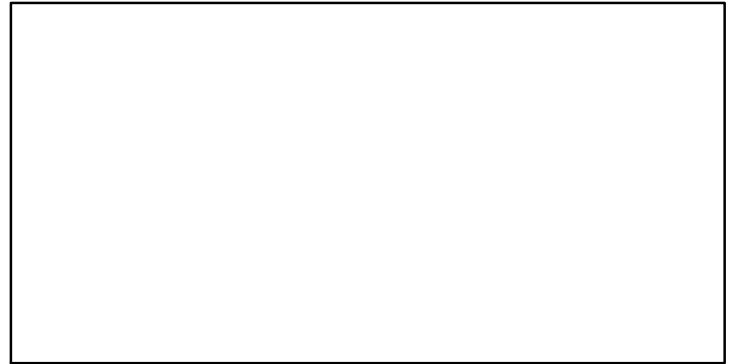
F-relative (1980–2018–ICESIMP2018)



ER*



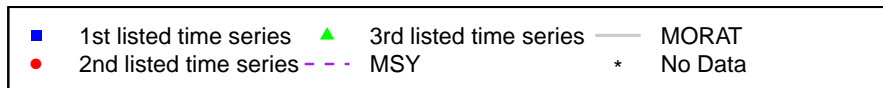
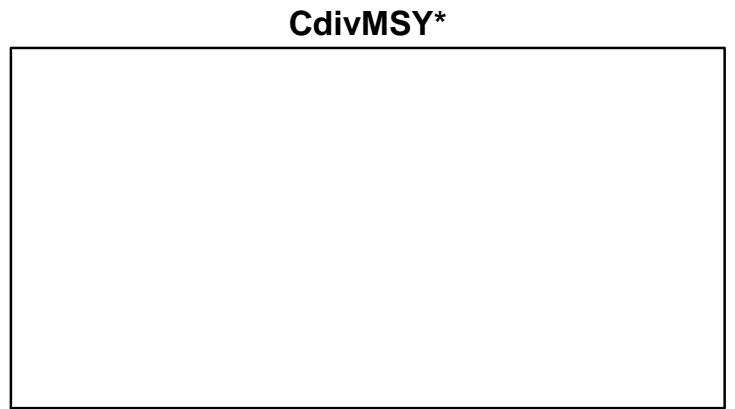
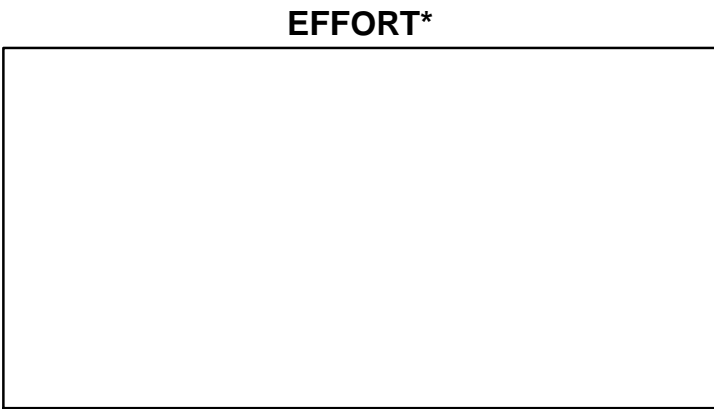
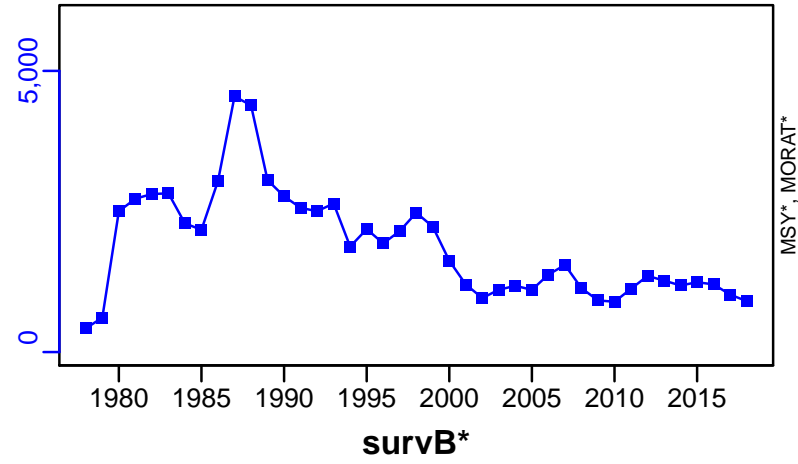
Recruits*



Black bellied angler ICES 8c–9a [ANGLVIIIc–IXa]

TL–MT, TC*, RecC* (1978–2019–ICESIMP2021)

TAC*, Cpair*, Cadv*



Black bellied angler ICES 7-8abd [ANGLVII-VIIIabd]

Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVII-VIIIabd-1986-2018-ICESIMP2021
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 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	R-index	2018	2.197	-	-
F	F-1/yr	2018	0.729	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	13,500		
TL	TL-MT	2018	10,174		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2017	0.836		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



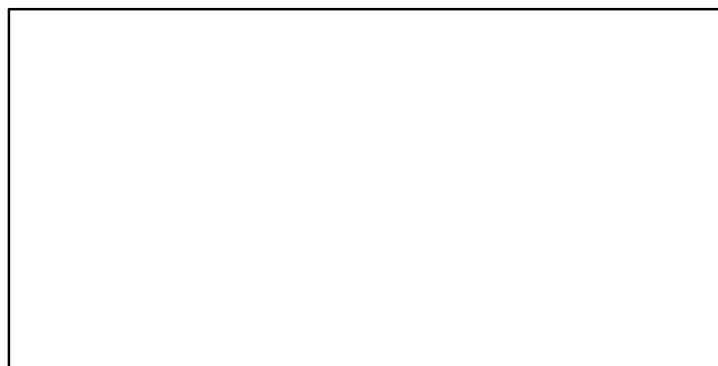
◆ Start Year ◆ End Year * No Data

Black bellied angler ICES 7–8abd [ANGLVII–VIIIabd]

TB*



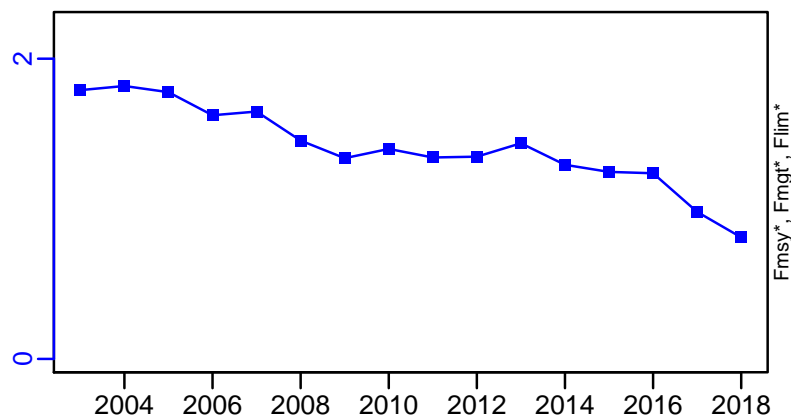
SSB*



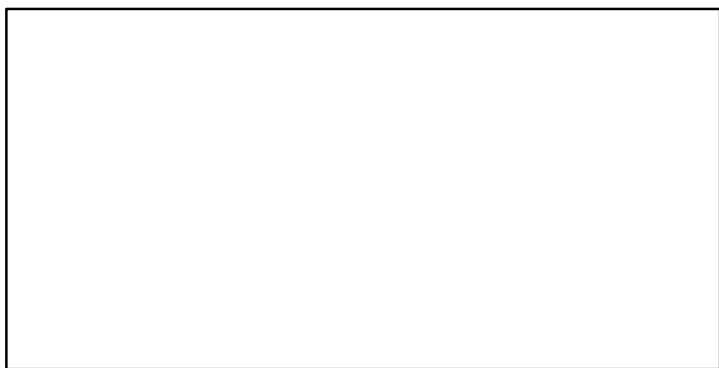
TN *



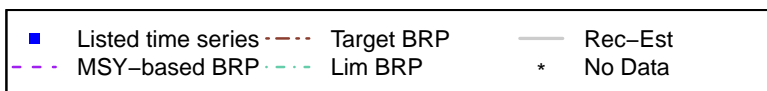
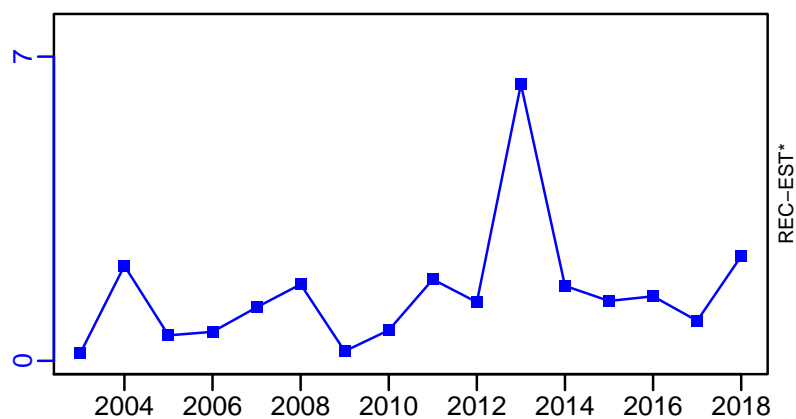
F-1/yr (1986–2018–ICESIMP2021)



ER*

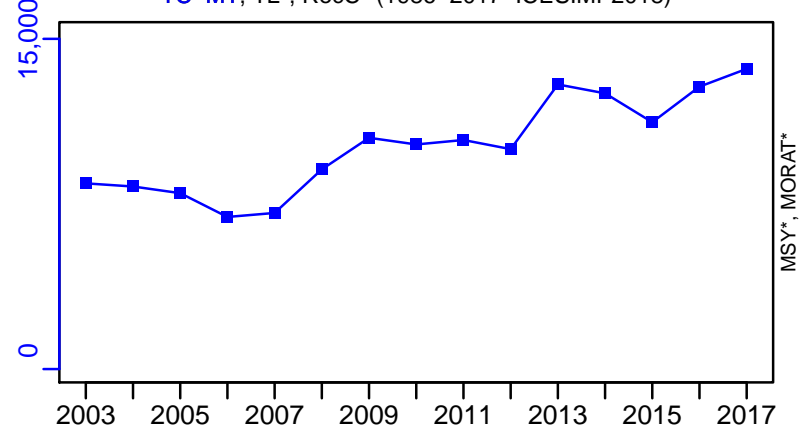


R-index (1986–2018–ICESIMP2021)

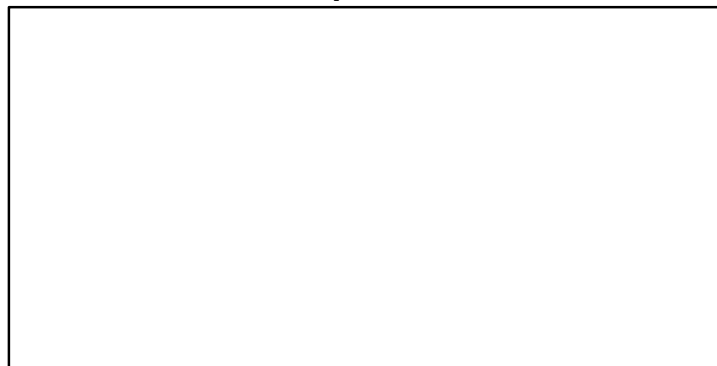


Black bellied angler ICES 7–8abd [ANGLVII–VIIIabd]

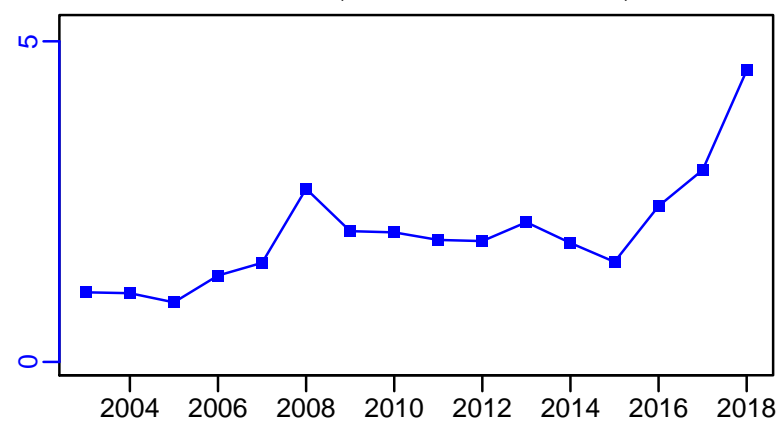
TC–MT, TL*, RecC* (1986–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



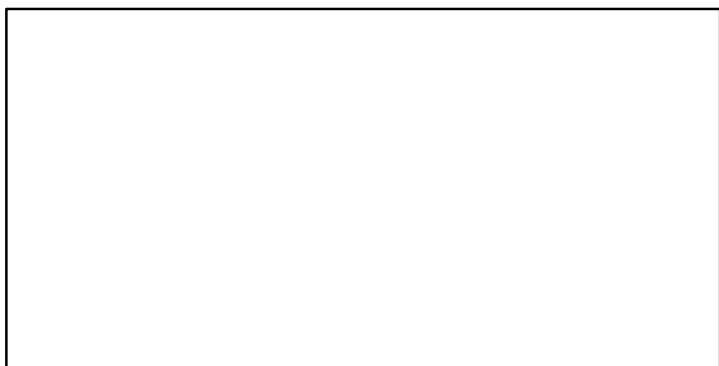
survB–index (1986–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

Angel shark Northeast Atlantic [ASHARNEATL]

Metadata	
Scientific Name	Squatina squatina
Current Assess ID	WGEF-ASHARNEATL-1973-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2011, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	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

Angel shark Northeast Atlantic [ASHARNEATL]

TB*



SSB*



TN *



F*



ER*

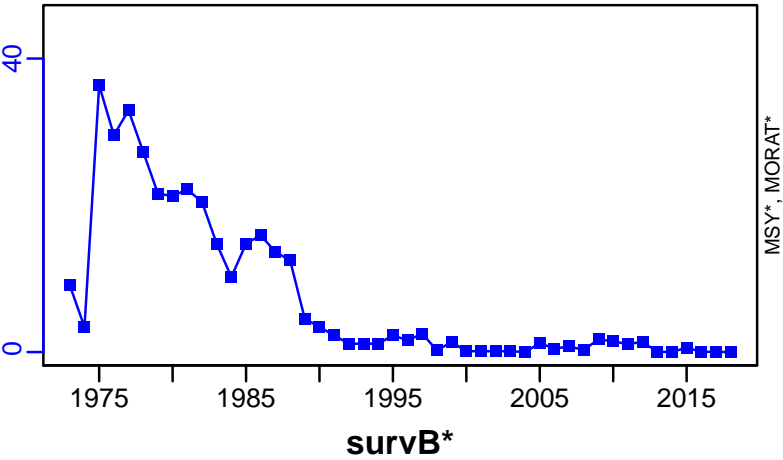


Recruits*



Angel shark Northeast Atlantic [ASHARNEATL]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

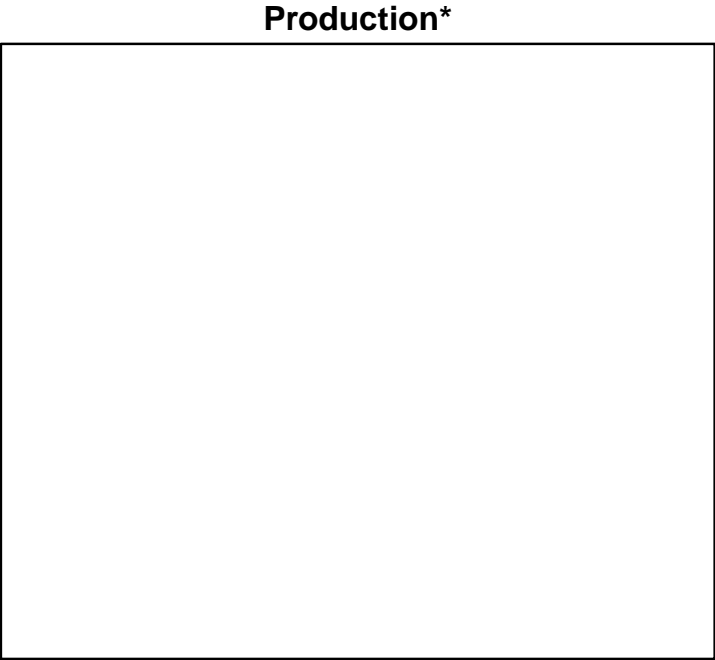
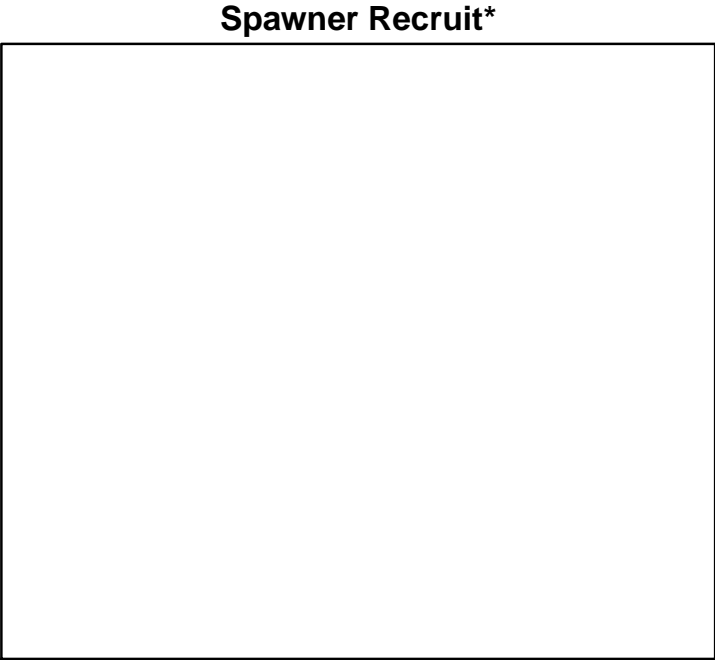
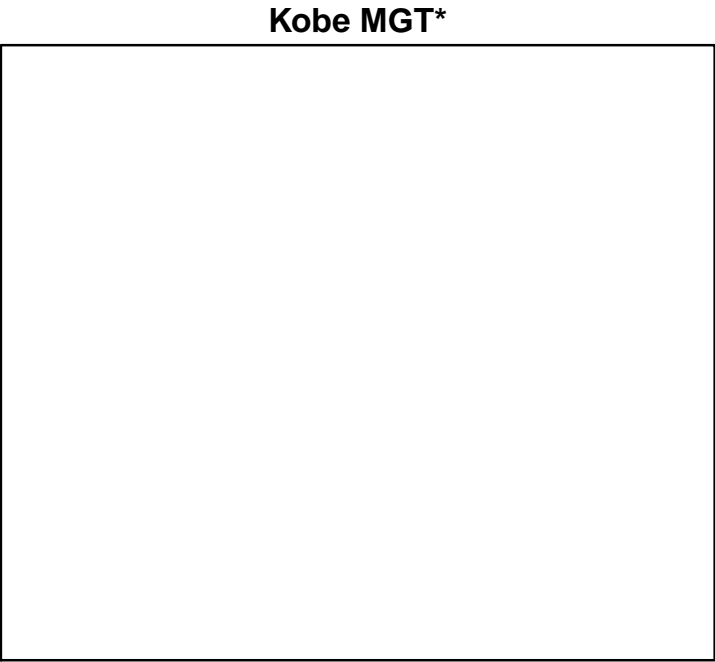
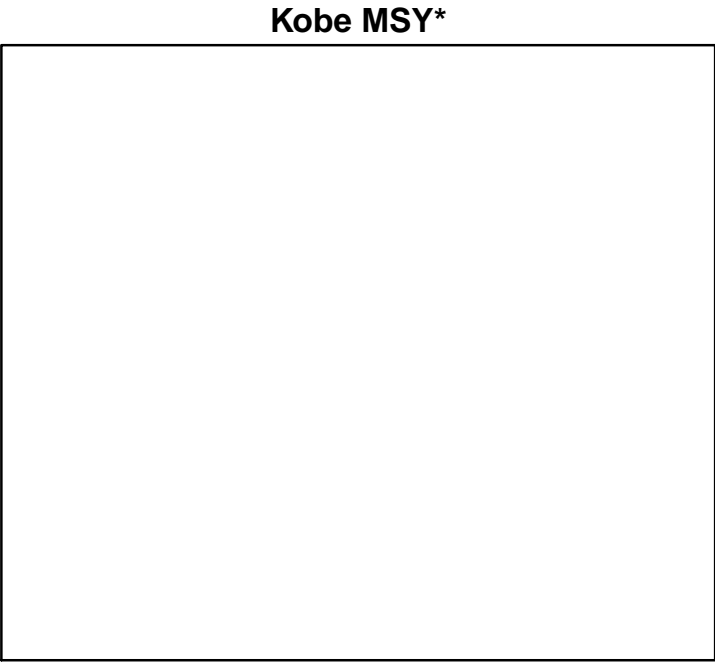


Beryx spp Northeast Atlantic [BERYXSPPNEATL]

Metadata	
Scientific Name	Beryx spp
Current Assess ID	WGDEEP-BERYXSPPNEATL-1988-2017-ICESIMP2018
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	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	240		
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*



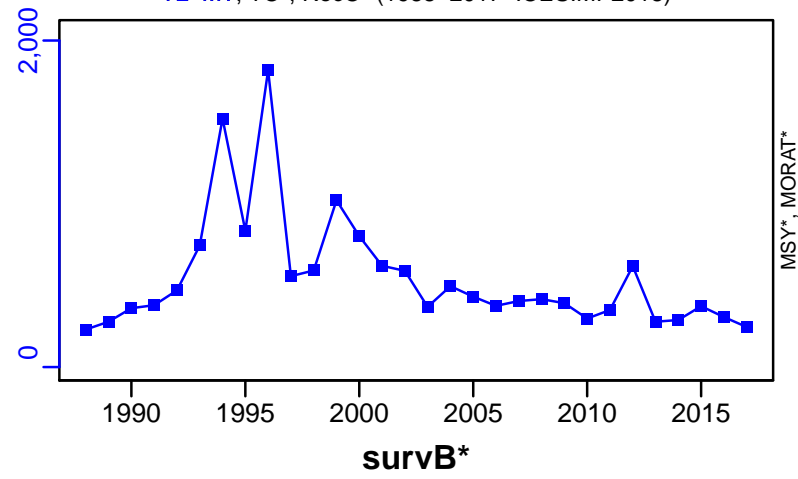
Recruits*



Beryx spp Northeast Atlantic [BERYXSPNEATL]

TL-MT, TC*, RecC* (1988–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



Blue jack mackerel Azores [BJMACKXa2]

Metadata	
Scientific Name	Trachurus picturatus
Current Assess ID	WGHANSA-BJMACKXa2-1978-2017-ICESIMP2018
Area	Azores
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	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	1140		
TL	TL-MT	2017	991		
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

Blue jack mackerel Azores [BJMACKXa2]

TB*



SSB*



TN *



F*



ER*



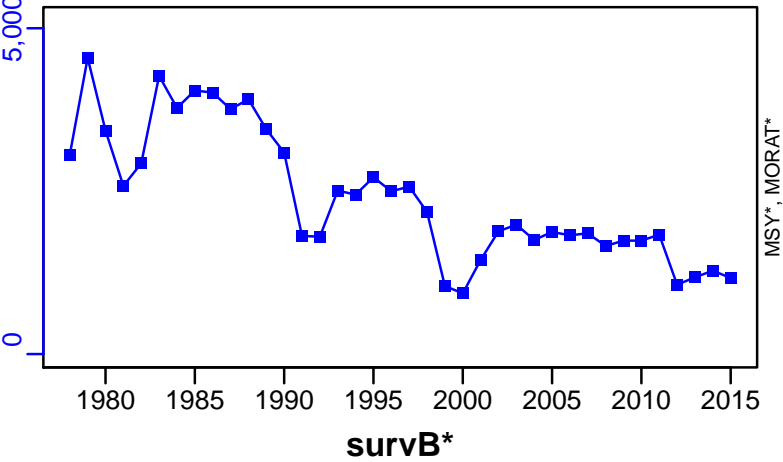
Recruits*



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

Blue jack mackerel Azores [BJMACKXa2]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Black scabbardfish Northeast Atlantic [BKSFNEATL]

Metadata	
Scientific Name	Aphanopus carbo
Current Assess ID	WGDEEP-BKSFNEATL-1988-2017-ICESIMP2018
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	2017, 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	F-1/yr	2013	0.022	-	-
ER	ER-ratio	2017	0.056	-	-
TC	TC-MT	2017	5		
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

Black scabbardfish Northeast Atlantic [BKSFNEATL]

TB*



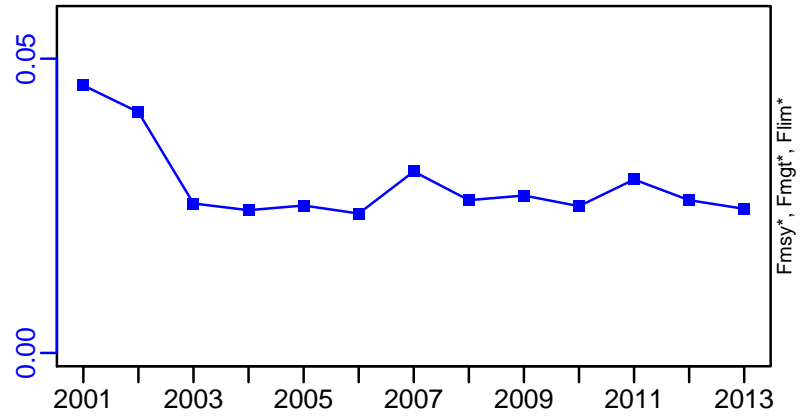
SSB*



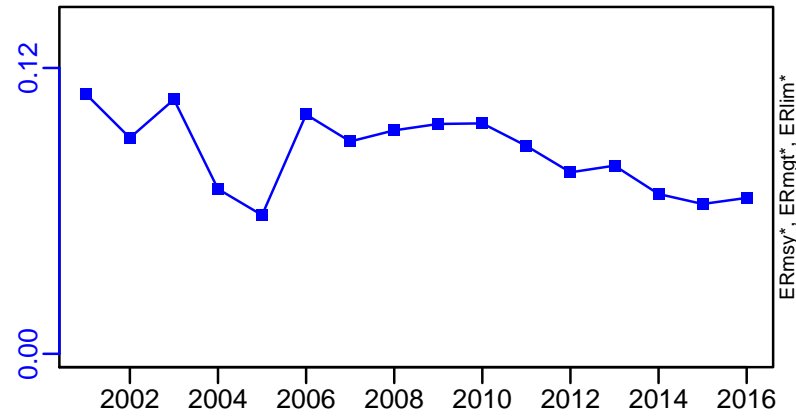
TN *



F-1/yr (2001–2013–ICESIMP2018)



ER-ratio (1988–2017–ICESIMP2018)



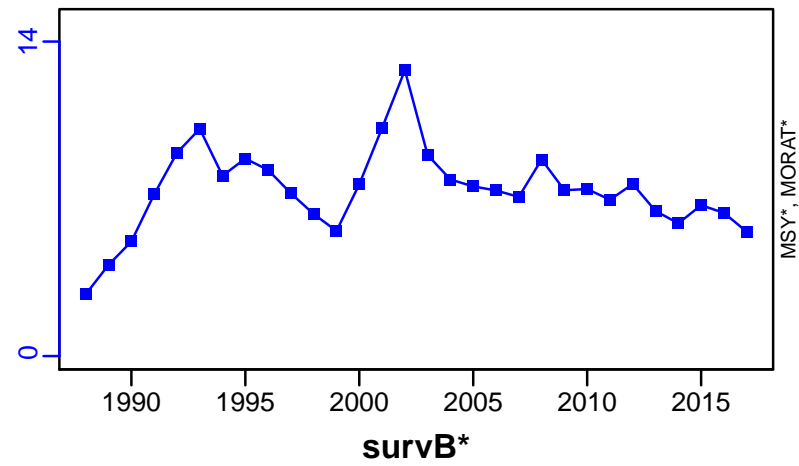
Recruits*



Black scabbardfish Northeast Atlantic [BKSFNEATL]

TC-MT, TL*, RecC* (1988–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



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

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

TB*



SSB*



TN *



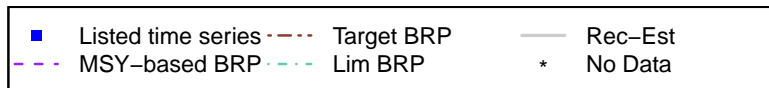
F*



ER*



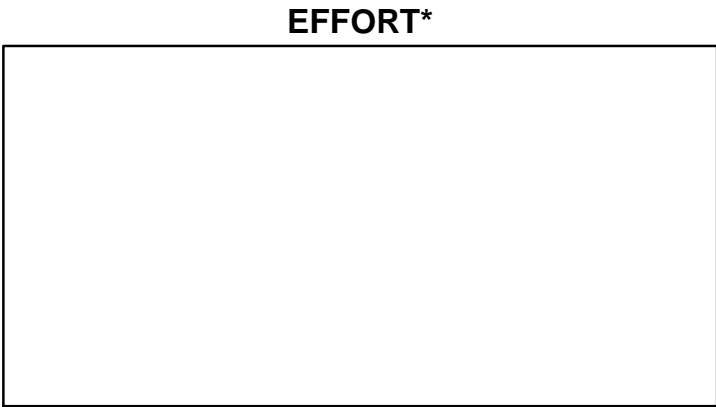
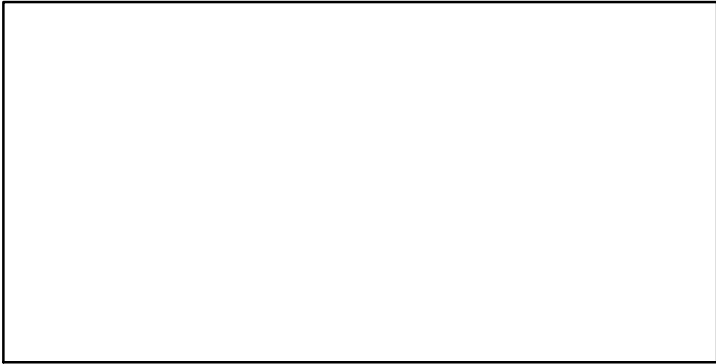
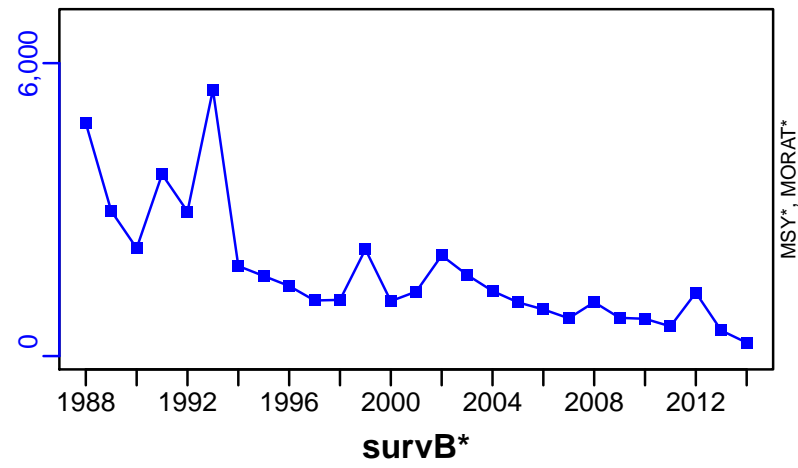
Recruits*



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 5b-6-7 [BLINGVb-VI-VII]

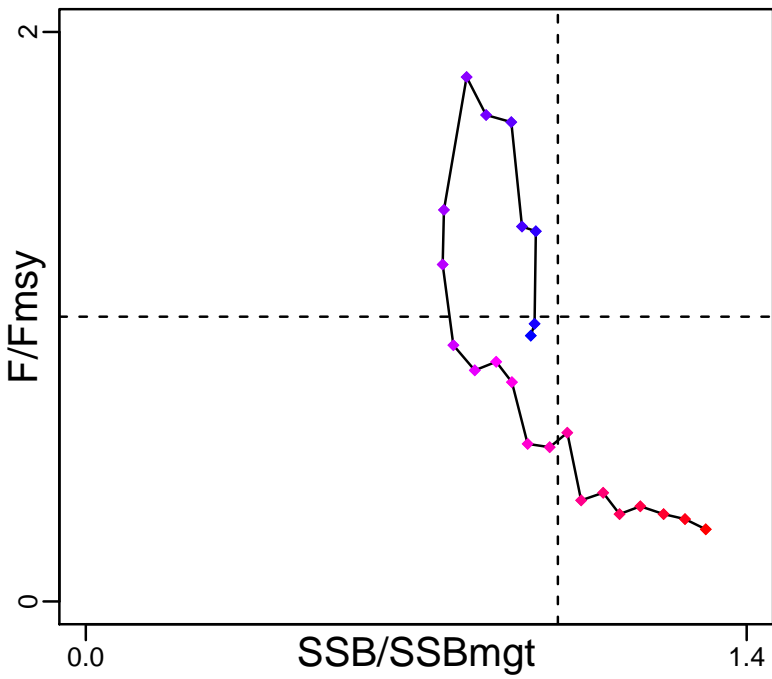
Metadata	
Scientific Name	Molva dypterygia
Current Assess ID	WGDEEP-BLINGVb-VI-VII-1966-2018-ICESIMP2018
Area	ICES 5b-6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2018, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2014	34,196
Fmsy	Fmsy-1/yr	2018	0.12
ERmsy	ERmsy-est-ratio	2018	0.044
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	75,000
Fmgt	Fmgt-1/yr	2018	0.12
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	10,973
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	54,000
Flim	Flim-1/yr	2018	0.17
ERlim	-	-	-

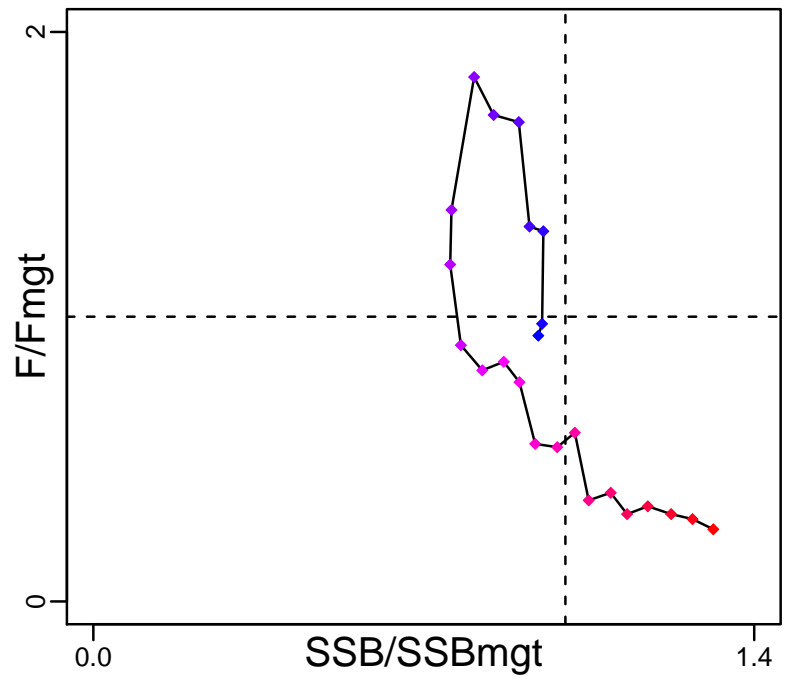
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	102,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3,480,000	-	9
F	F-1/yr	2018	0.03	-	9 to 19
ER	ER-calc-ratio	2018	0.008	-	-
TC	TC-MT	2018	2670		
TL	TL-MT	2018	2670		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2014	1.994		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.253		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.192		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.36		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.253		
ER/ERmgt	-	-	-		

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

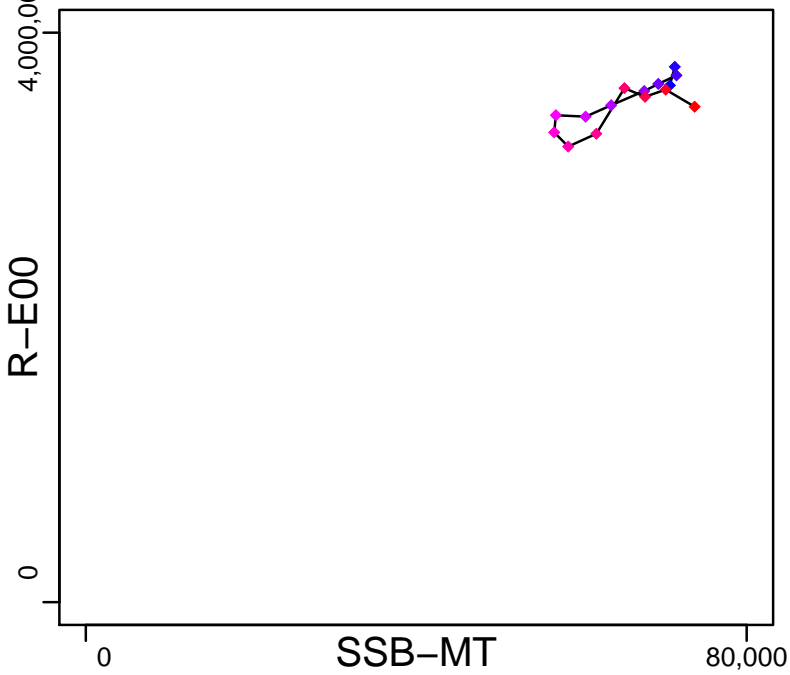
Kobe MSYpref (1966-2018-ICESIMP2018)



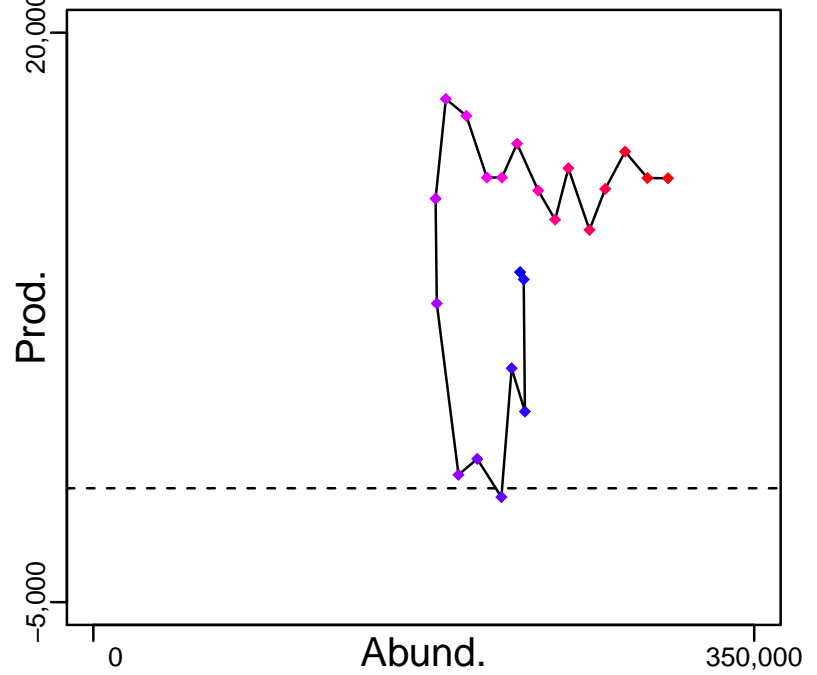
Kobe MGTpref (1966-2018-ICESIMP2018)



Spawner Recruit (1966-2018-ICESIMP2018)



Production (1966-2018-ICESIMP2018)



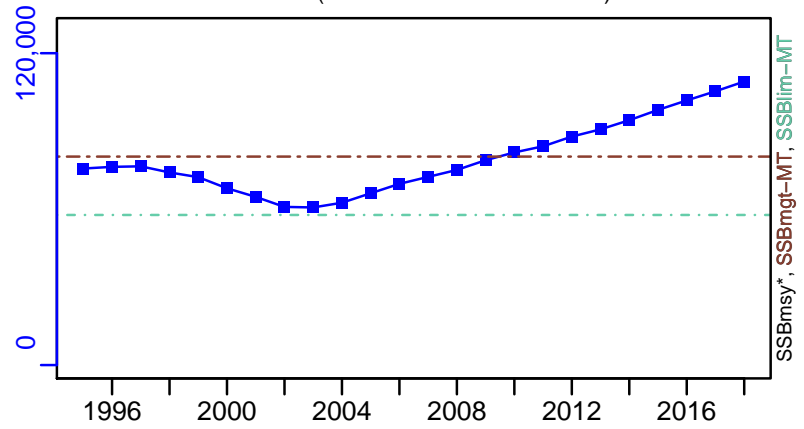
◆ Start Year ◆ End Year * No Data

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

TB*



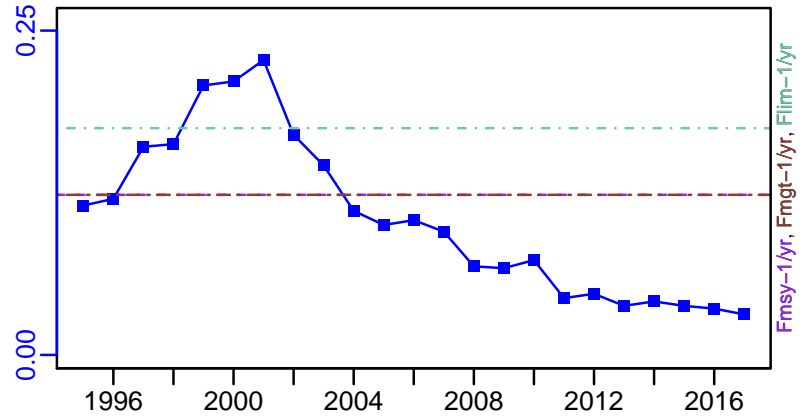
SSB-MT (1966-2018-ICESIMP2018)



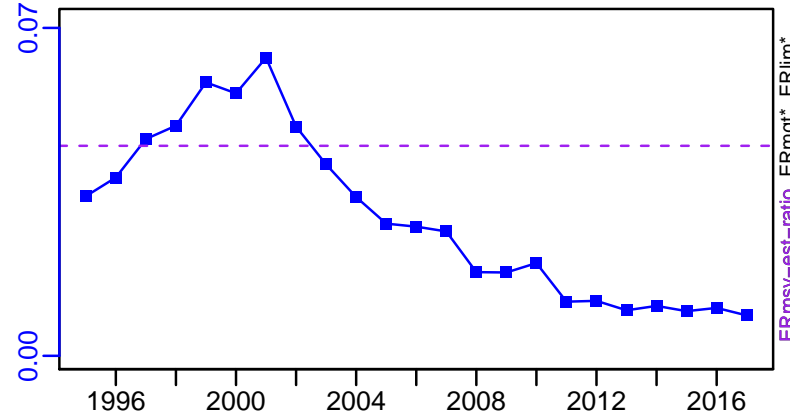
TN *



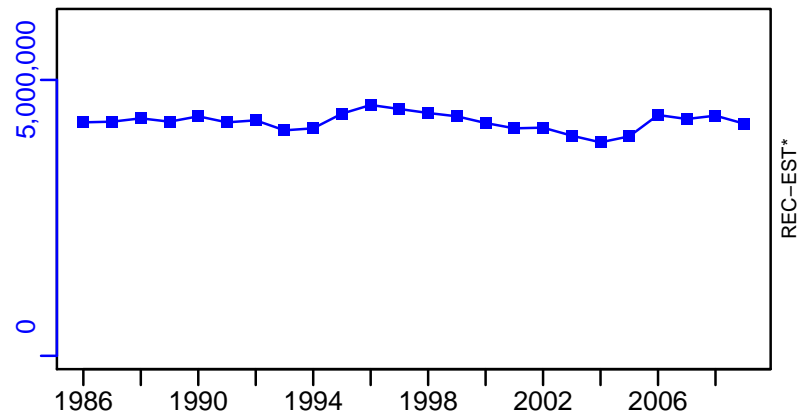
F-1/yr (1966-2018-ICESIMP2018)



ER-calc-ratio (1966-2018-ICESIMP2018)



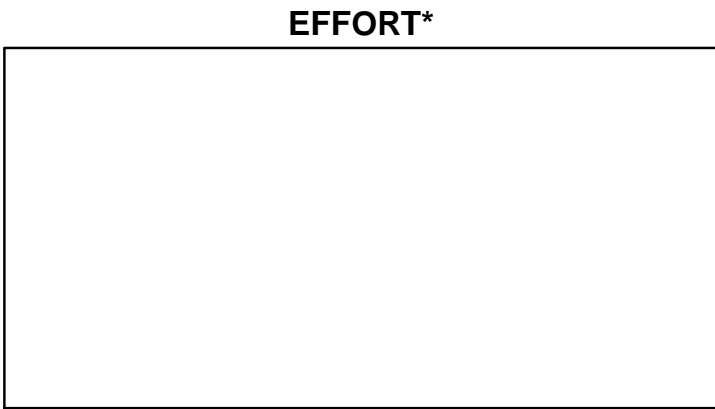
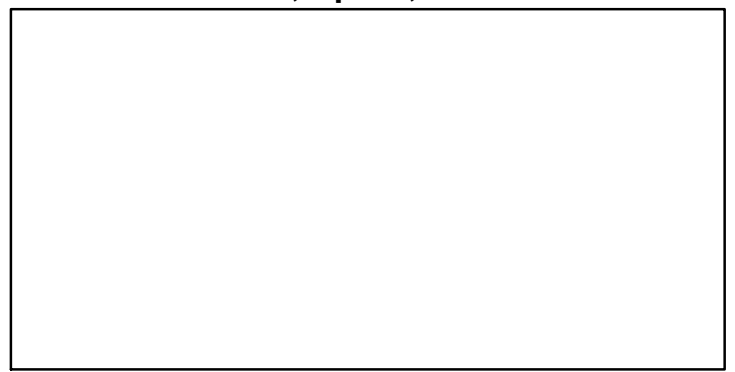
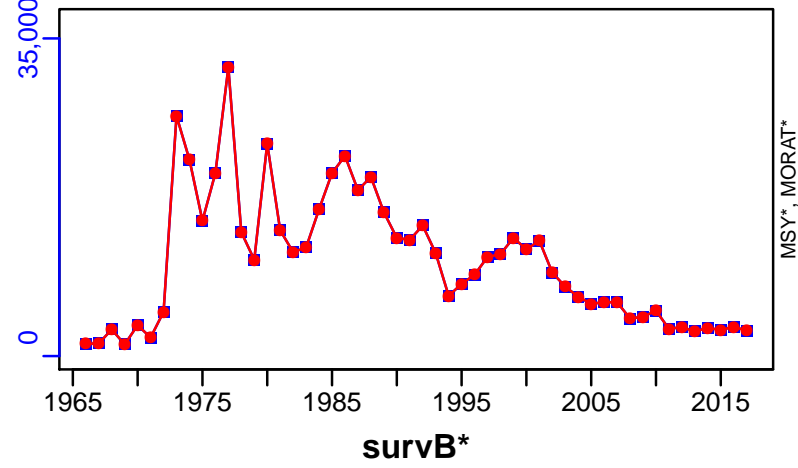
R-E00 (1966-2018-ICESIMP2018)



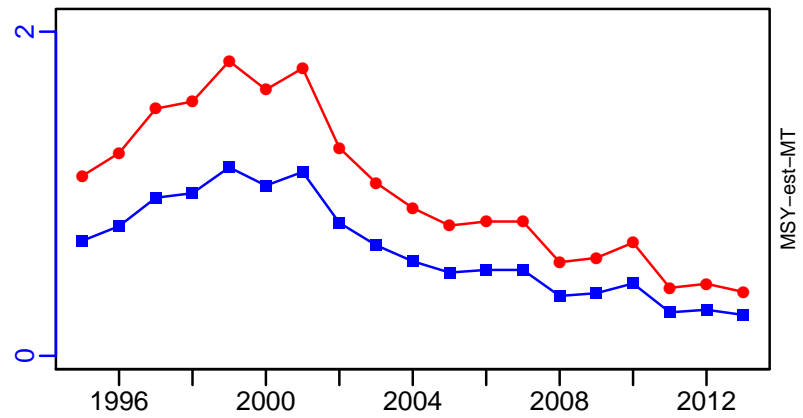
Blue ling ICES 5b-6-7 [BLINGVb-VI-VII]

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

TAC*, Cpair*, Cadv*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1986-2014-ICESIMP2016)



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

Blonde ray ICES 4a-6 [BLRAYIVa-VI]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYIVa-VI-2005-2018-ICESIMP2021
Area	ICES 4a-6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2018, 2016

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

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

Blonde ray ICES 4a–6 [BLRAYIVa–VI]

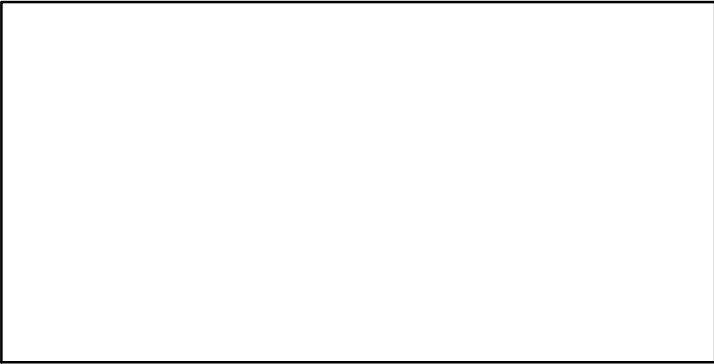
TB*



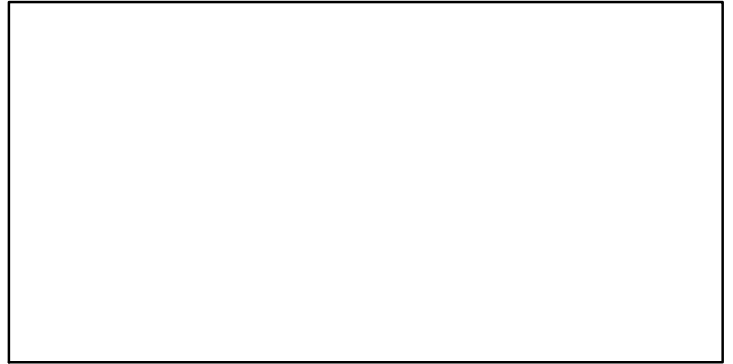
SSB*



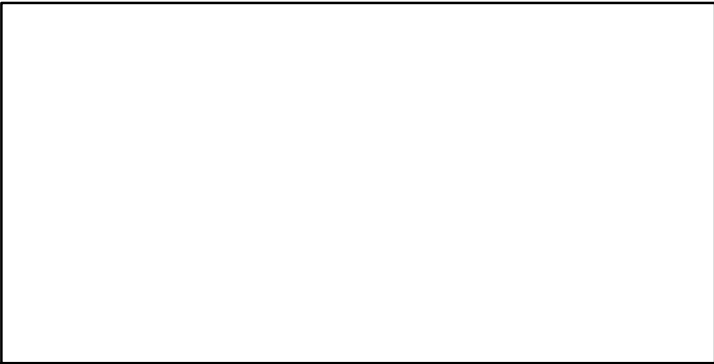
TN *



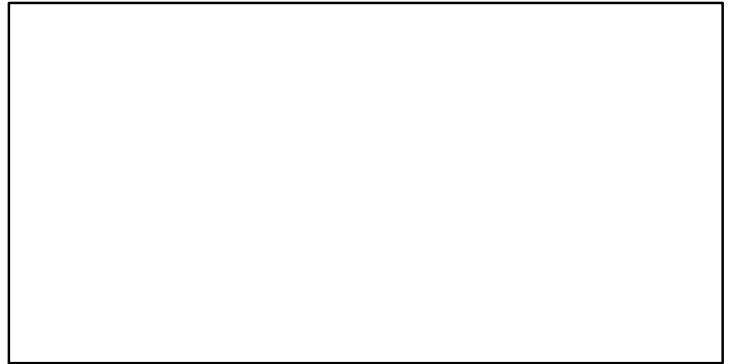
F*



ER*



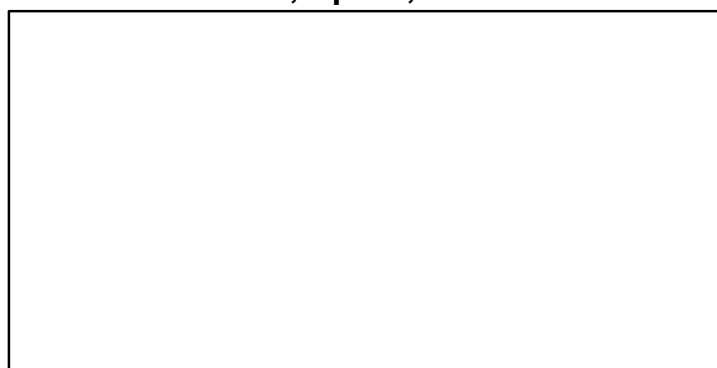
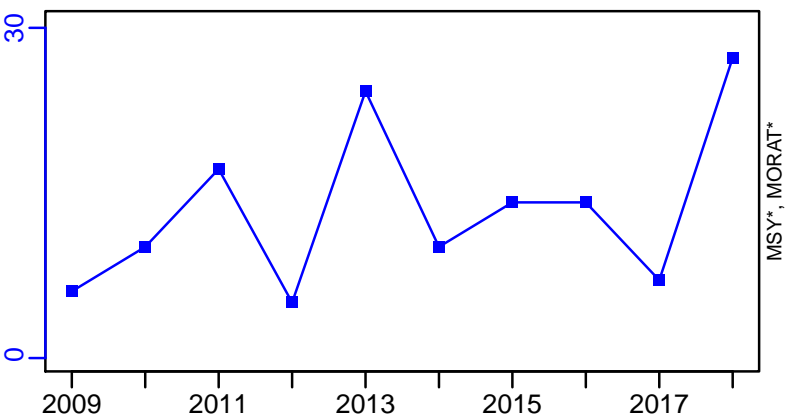
Recruits*



Blonde ray ICES 4a-6 [BLRAYIVa-VI]

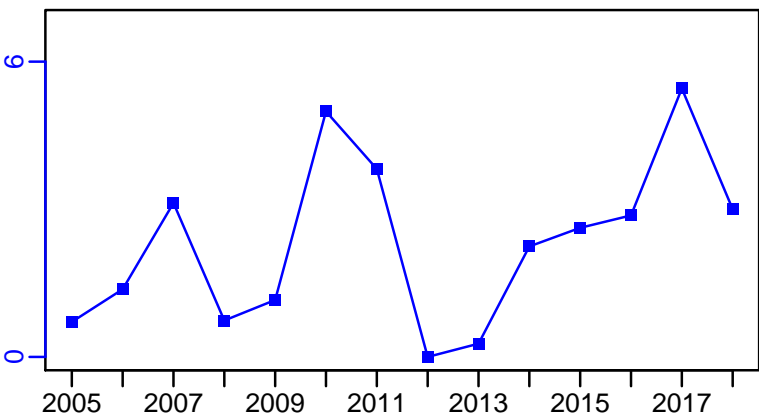
TL-MT, TC*, RecC* (2005-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



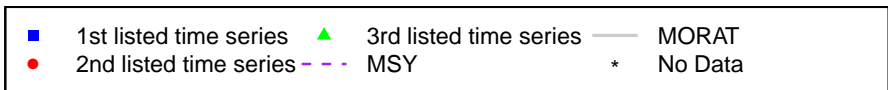
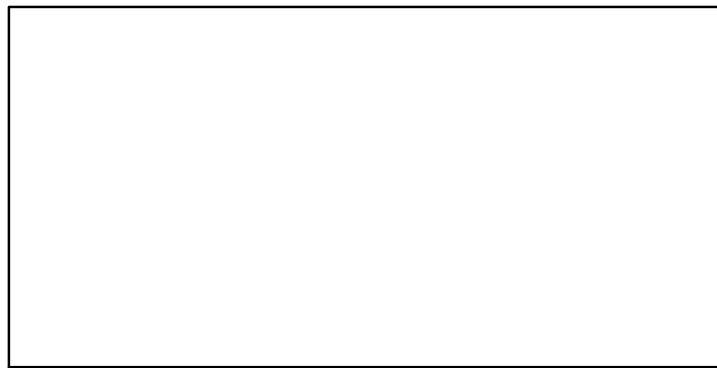
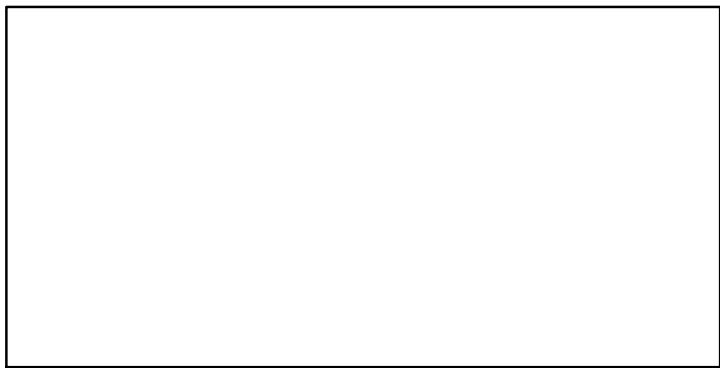
survB-index (2005-2018-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



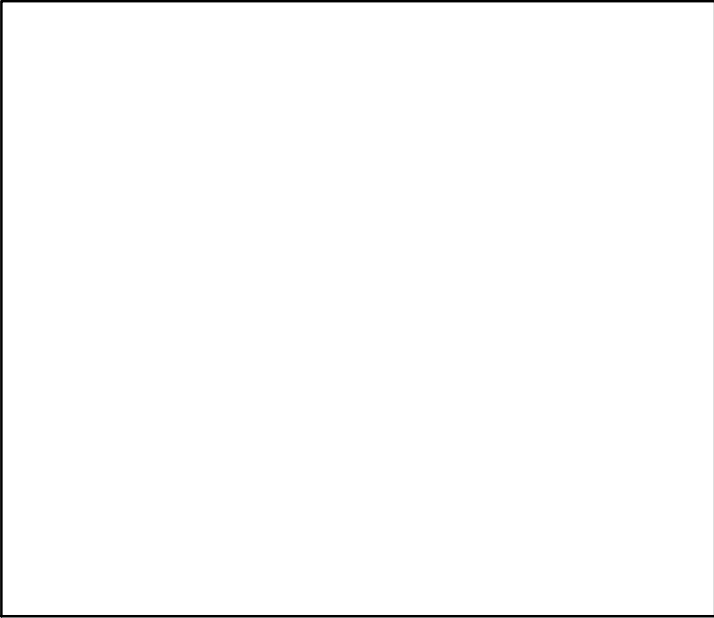
Blonde ray ICES 4c-7d [BLRAYIVc-VIId]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYIVc-VIId-1988-2018-ICESIMP2021
Area	ICES 4c-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2018, 2016

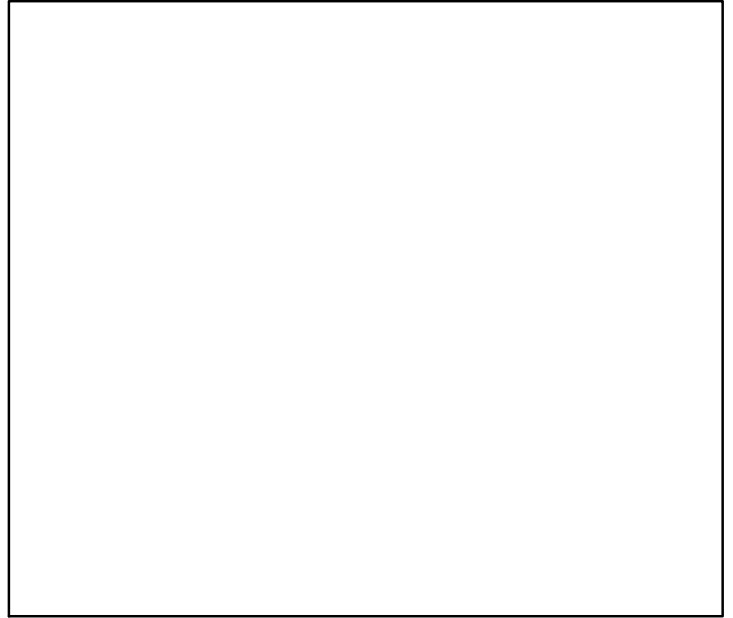
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	251		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

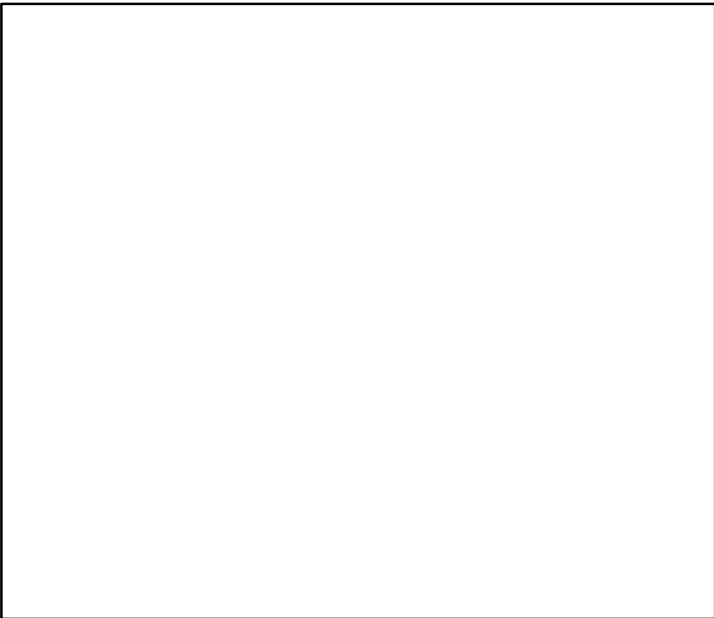
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

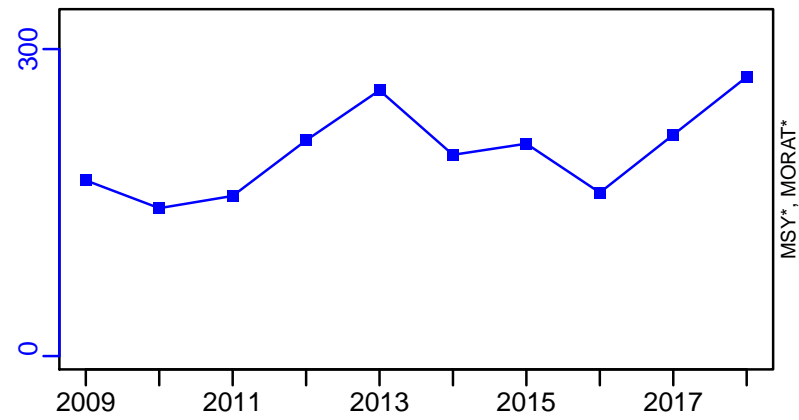


Recruits*



Blonde ray ICES 4c-7d [BLRAYIVc-VIId]

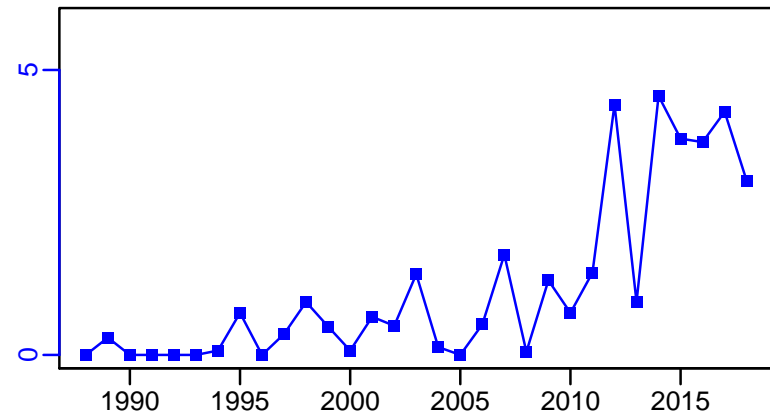
TL-MT, TC*, RecC* (1988-2018-ICESIMP2021)



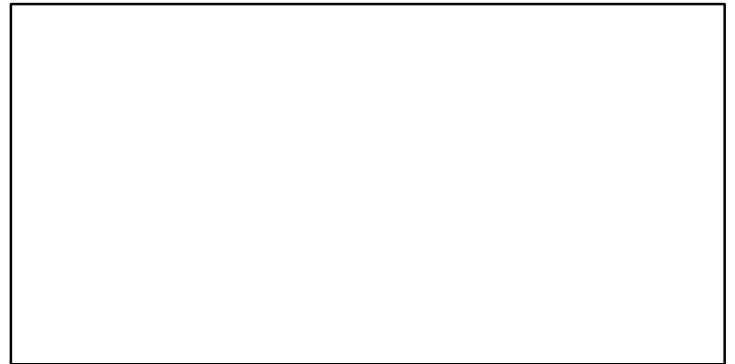
TAC*, Cpair*, Cadv*



survB-index (1988-2018-ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Blonde ray Portuguese Waters -East [BLRAYIXa]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYIXa-2005-2015-ICESIMP2018
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.09	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	218		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

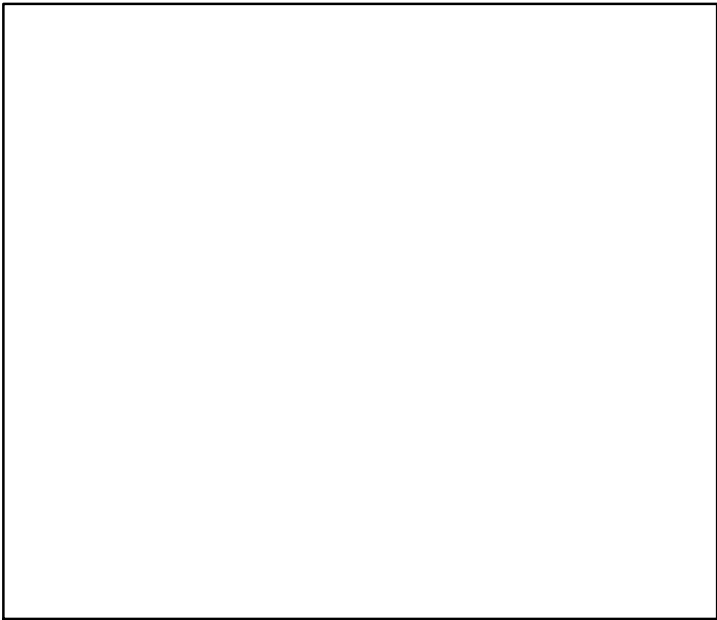
Kobe MSY*



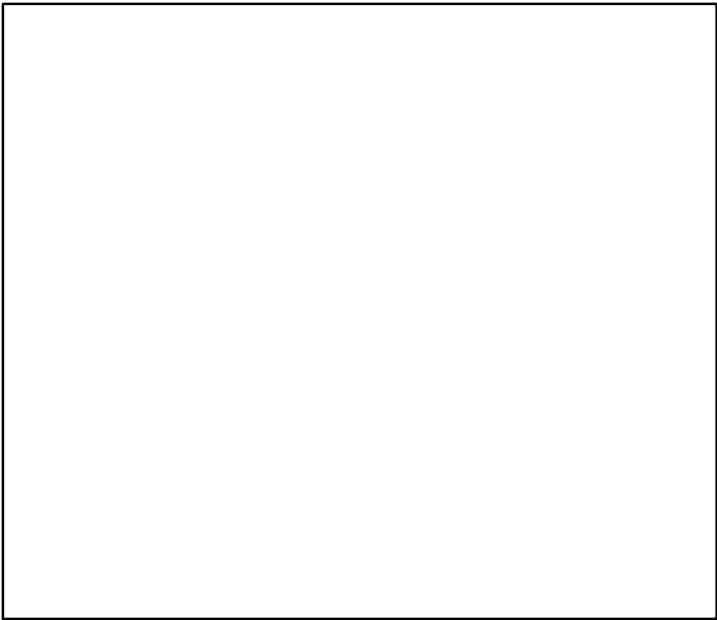
Kobe MGT*



Spawner Recruit*



Production*



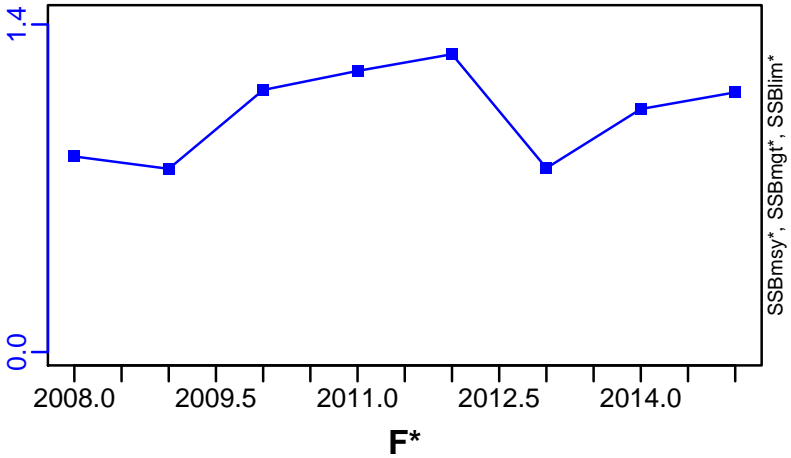
◆ Start Year ◆ End Year * No Data

Blonde ray Portugese Waters –East [BLRAYIXa]

TB*



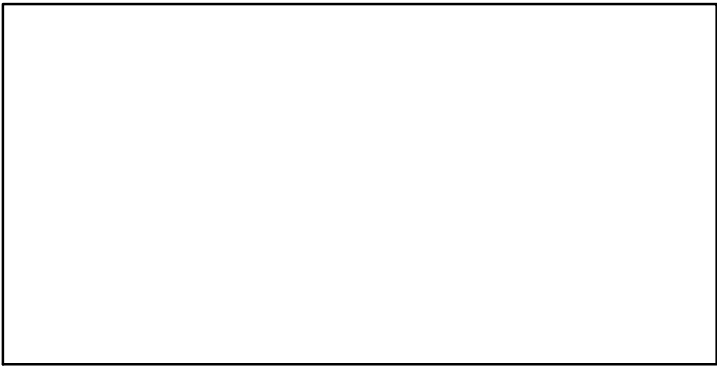
SSB-index (2005–2015–ICESIMP2018)



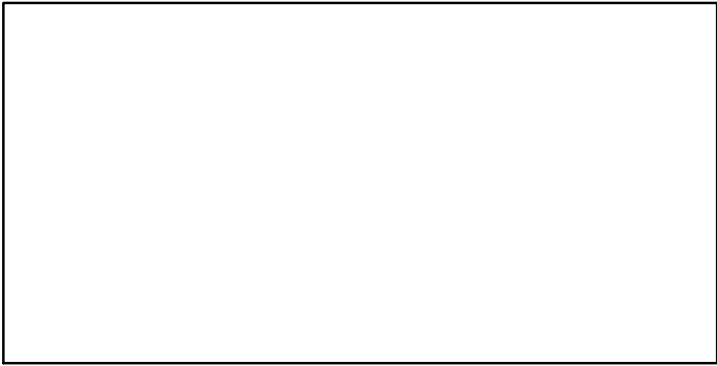
TN *



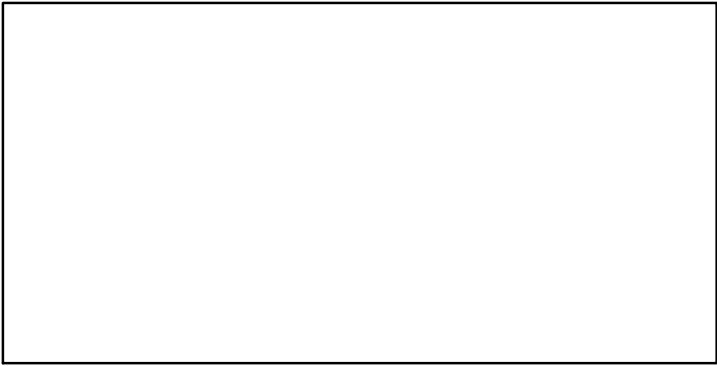
F*



ER*

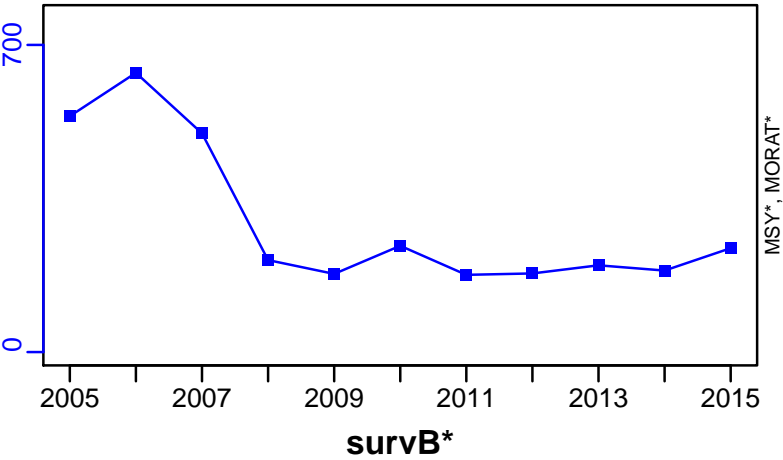


Recruits*



Blonde ray Portuguese Waters –East [BLRAYIXa]

TL–MT, TC*, RecC* (2005–2015–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Blonde ray ICES 7afg [BLRAYVIIafg]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYVIIafg-1993-2015-ICESIMP2018
Area	ICES 7afg
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	1170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

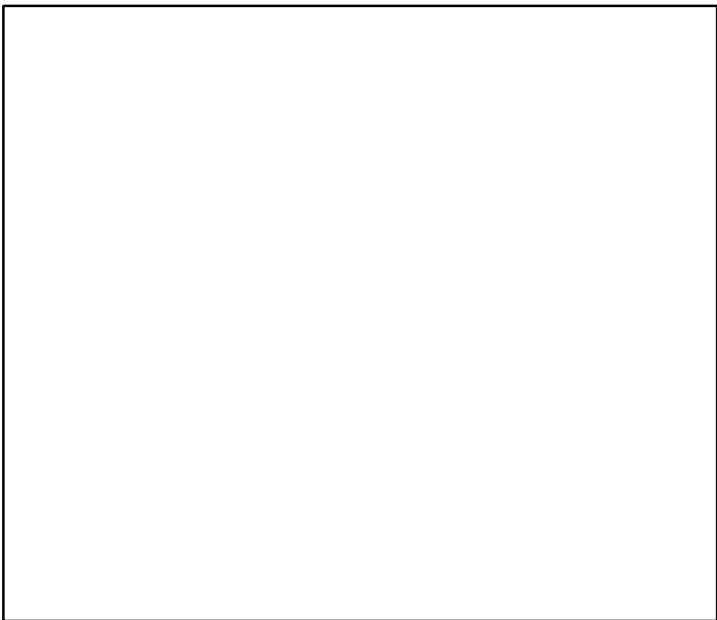
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

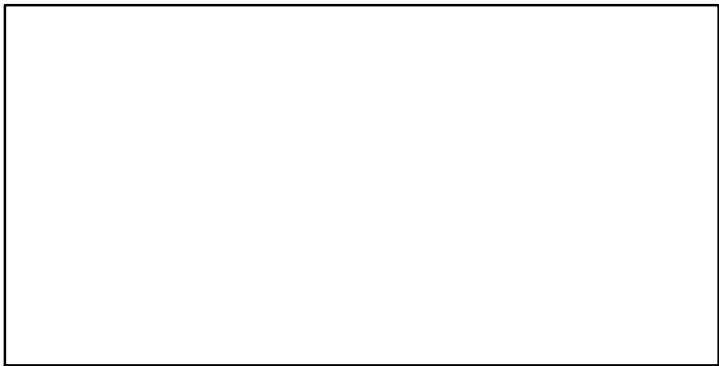


◆ Start Year ◆ End Year * No Data

TB*



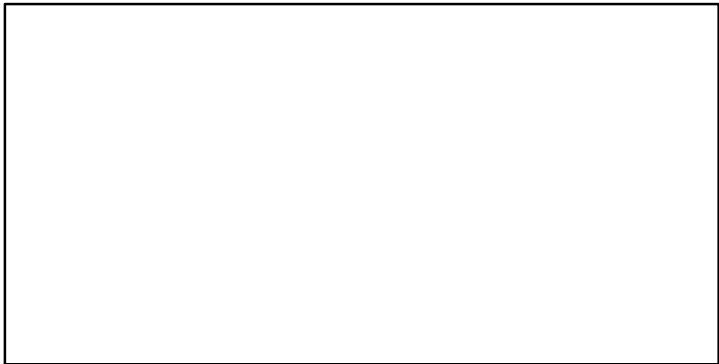
SSB*



TN *



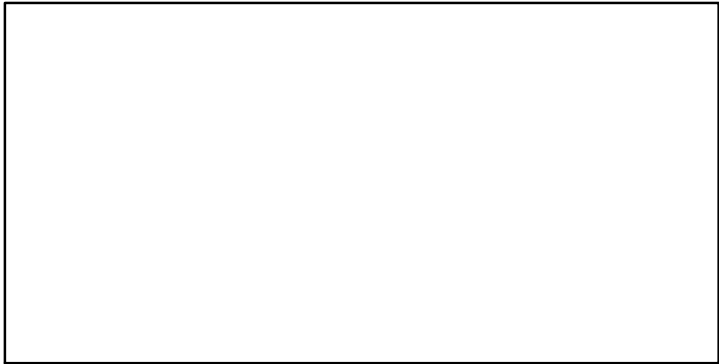
F*



ER*



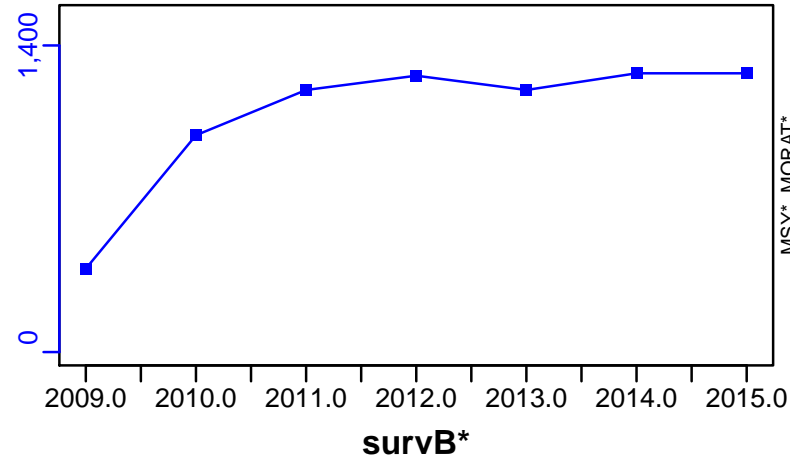
Recruits*



Blonde ray ICES 7afg [BLRAYVIIafg]

TL-MT, TC*, RecC* (1993–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Blonde ray Western English Channel [BLRAYVIIe]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYVIIe-2009-2015-ICESIMP2018
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	731		
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*



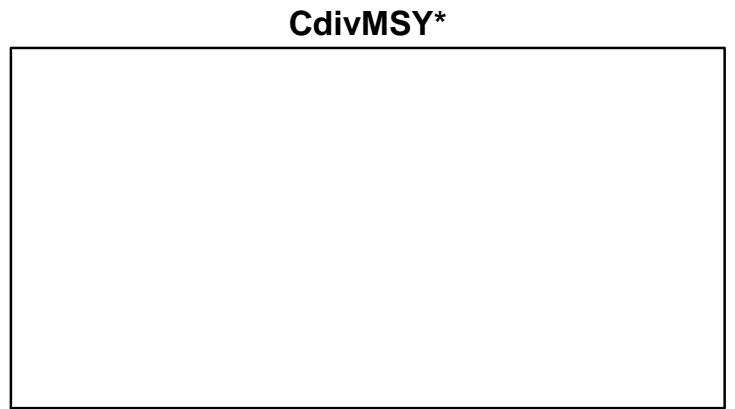
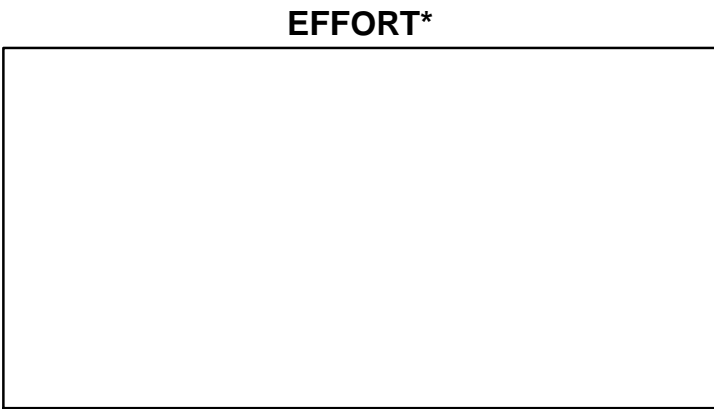
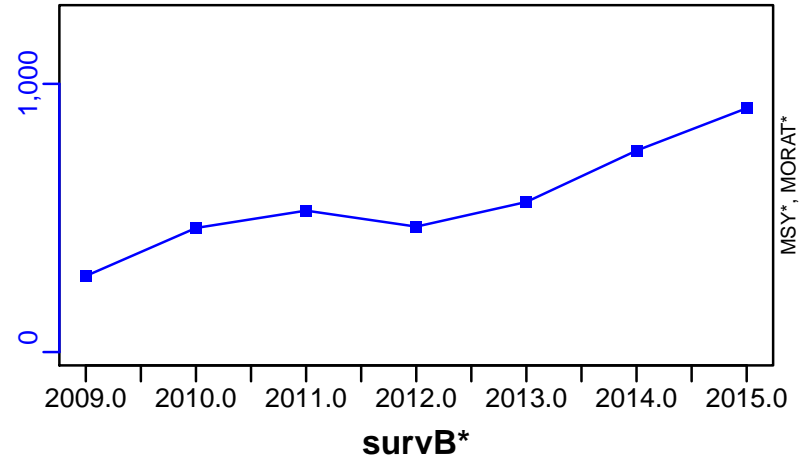
Recruits*



Blonde ray Western English Channel [BLRAYVIIe]

TL-MT, TC*, RecC* (2009–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Blackmouth dogfish ICES 8-9a [BMDOGVIII-IXa]

Metadata	
Scientific Name	Galeus melastomus
Current Assess ID	WGEF-BMDOGVIII-IXa-1997-2018-ICESIMP2021
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016, 2018

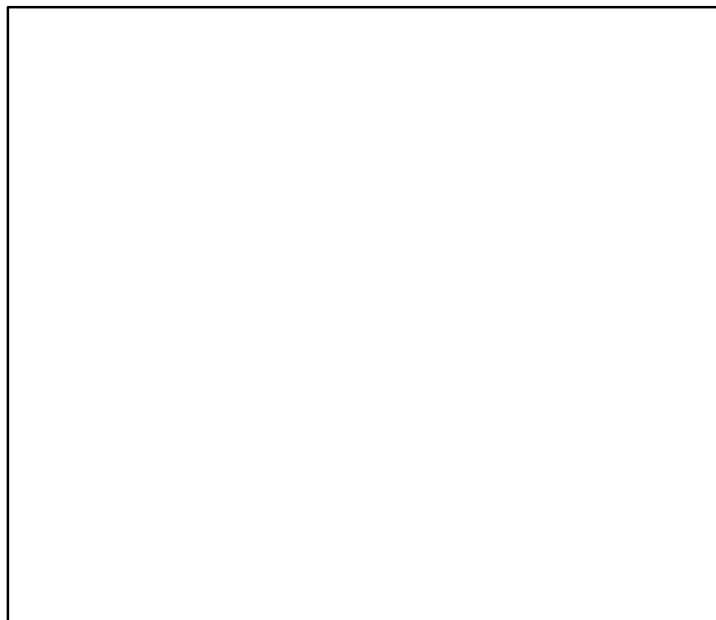
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	1.2	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	454		
TL	TL-MT	2018	181		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



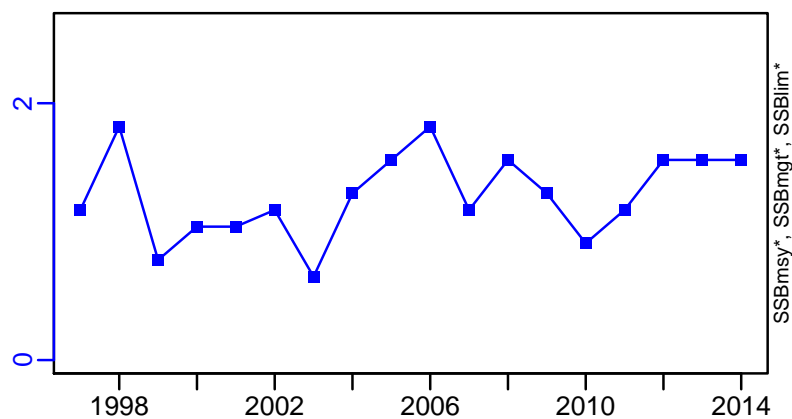
◆ Start Year ◆ End Year * No Data

Blackmouth dogfish ICES 8–9a [BMDOGVIII–IXa]

TB*



SSB-index (1997–2014–ICESIMP2018)



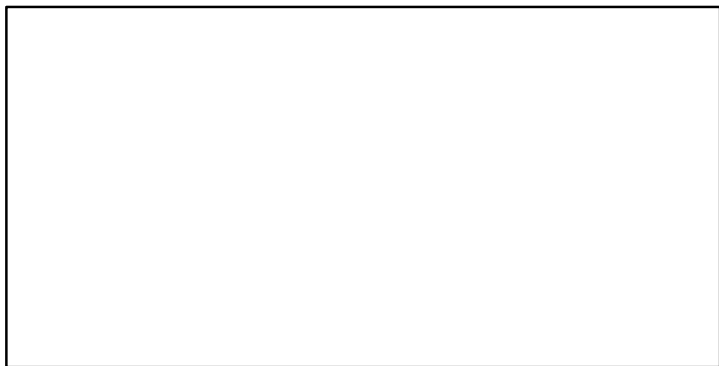
TN *



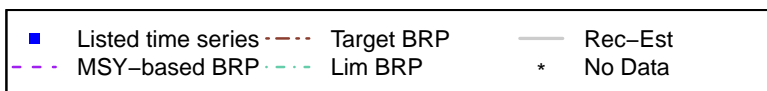
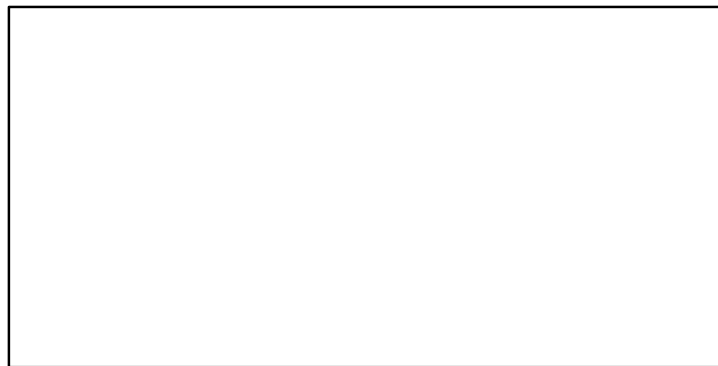
F*



ER*

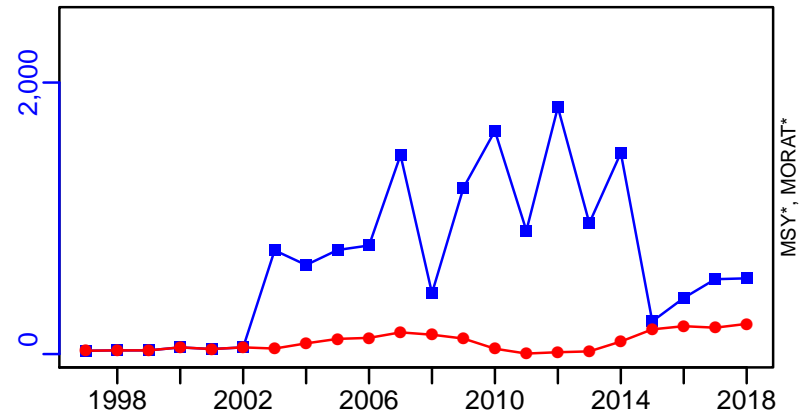


Recruits*



Blackmouth dogfish ICES 8–9a [BMDOGVIII–IXa]

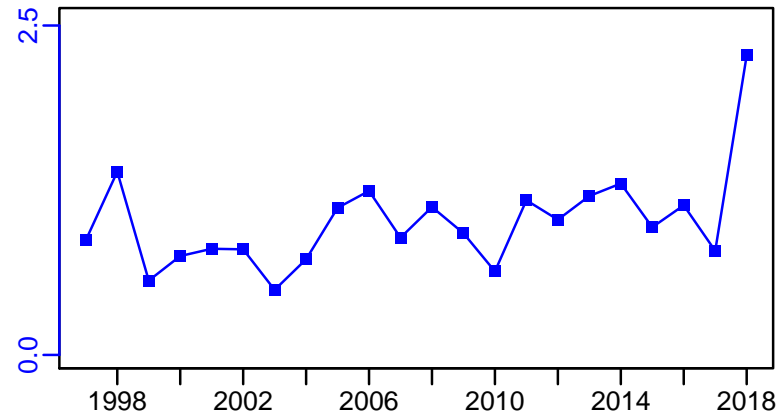
TC–MT, TL–MT, RecC* (1997–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB–MT (1997–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Blackmouth dogfish ICES 6-7 [BMDOGVI-VII]

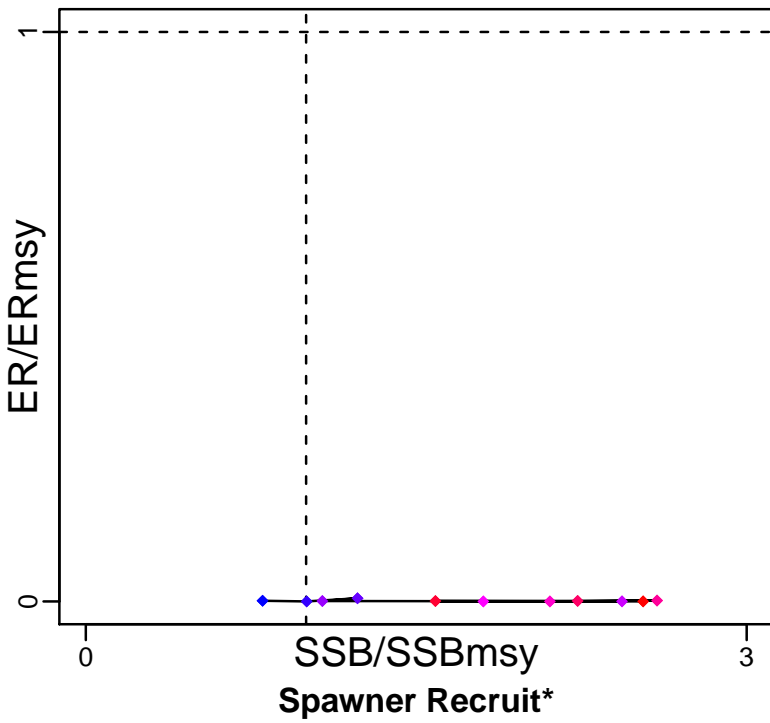
Metadata	
Scientific Name	Galeus melastomus
Current Assess ID	WGEF-BMDOGVI-VII-2001-2018-ICESIMP2021
Area	ICES 6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2018	24
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2018	0.559
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2018	64
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

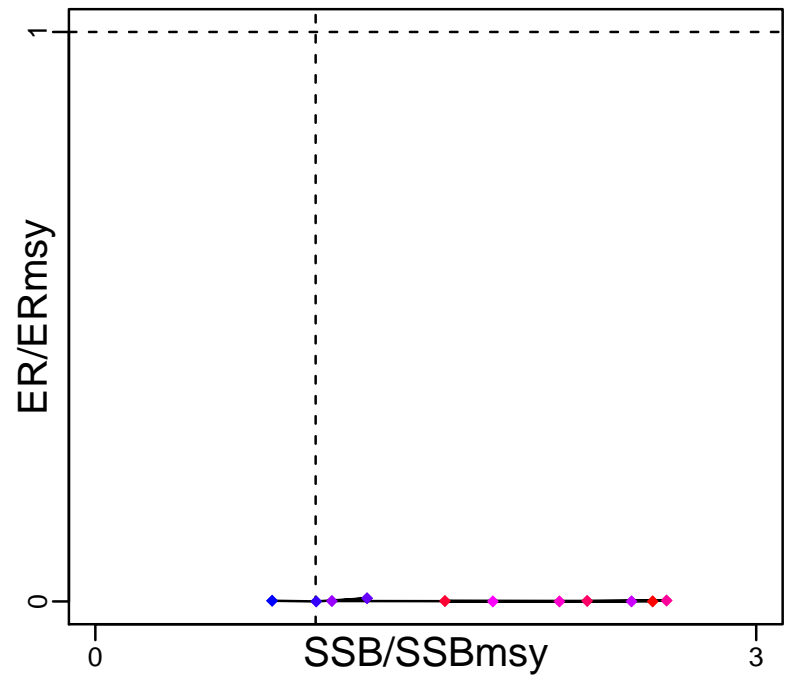
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	61	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0	-	-
TC	-	-	-		
TL	TL-MT	2018	0.015		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2018	2.53		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blackmouth dogfish ICES 6-7 [BMDOGVI-VII]

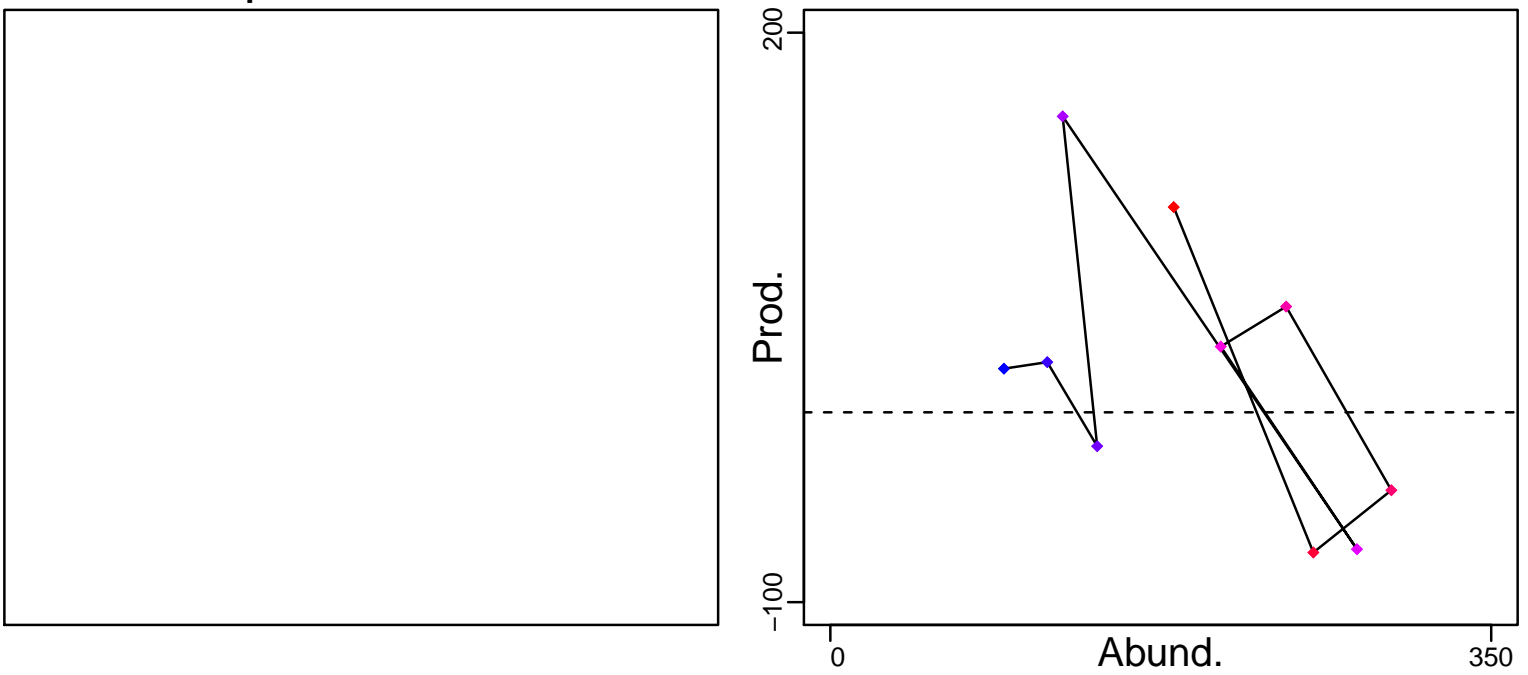
Kobe MSYpref (2001-2018-ICESIMP2021)



Kobe MGTpref (2001-2018-ICESIMP2021)



Production (2001-2018-ICESIMP2021)



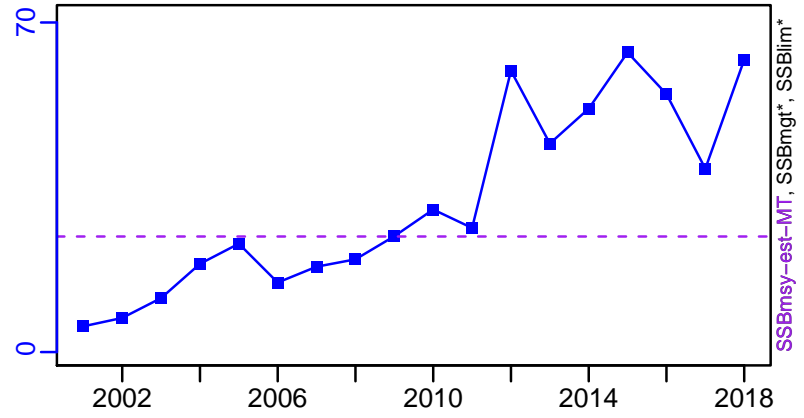
◆ Start Year ◆ End Year * No Data

Blackmouth dogfish ICES 6–7 [BMDOGVI–VII]

TB*



SSB-MT (2001–2018–ICESIMP2021)



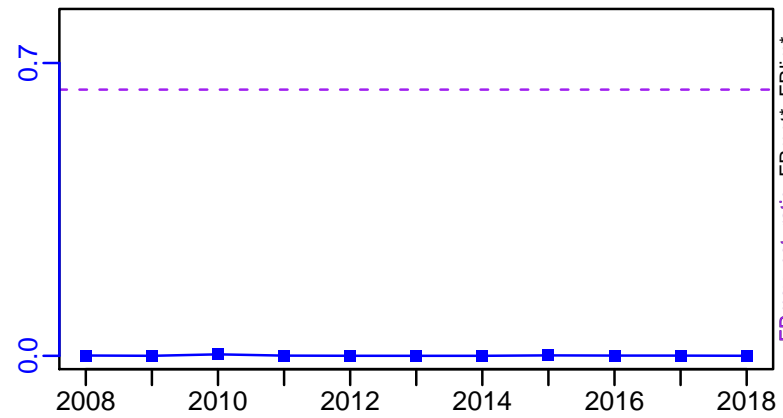
TN *



F*



ER-calc-ratio (2001–2018–ICESIMP2021)

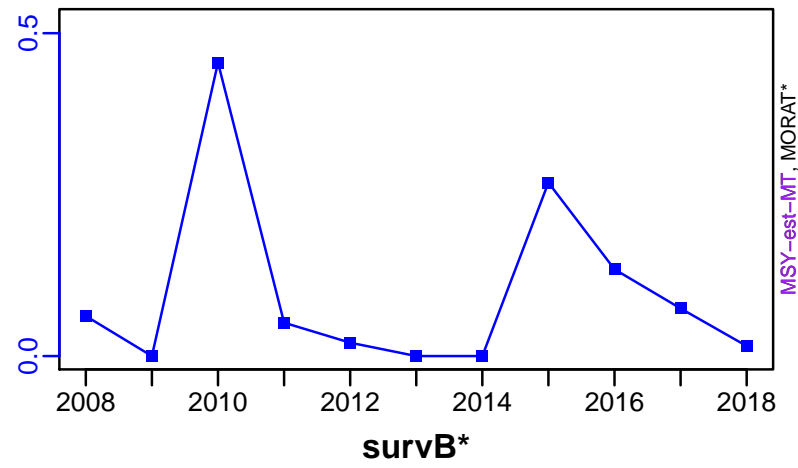


Recruits*



Blackmouth dogfish ICES 6-7 [BMDOGVI-VII]

TL-MT, TC*, RecC* (2001-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



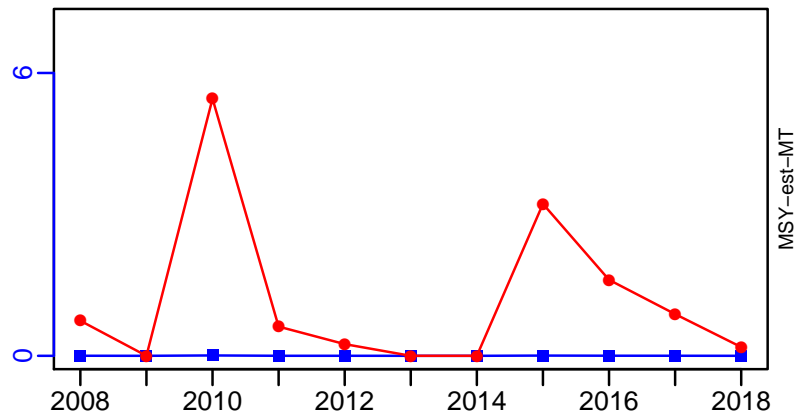
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (2001-2018-ICESIMP2021)



Boarfish ICES 6-8 [BOARVI-VIII]

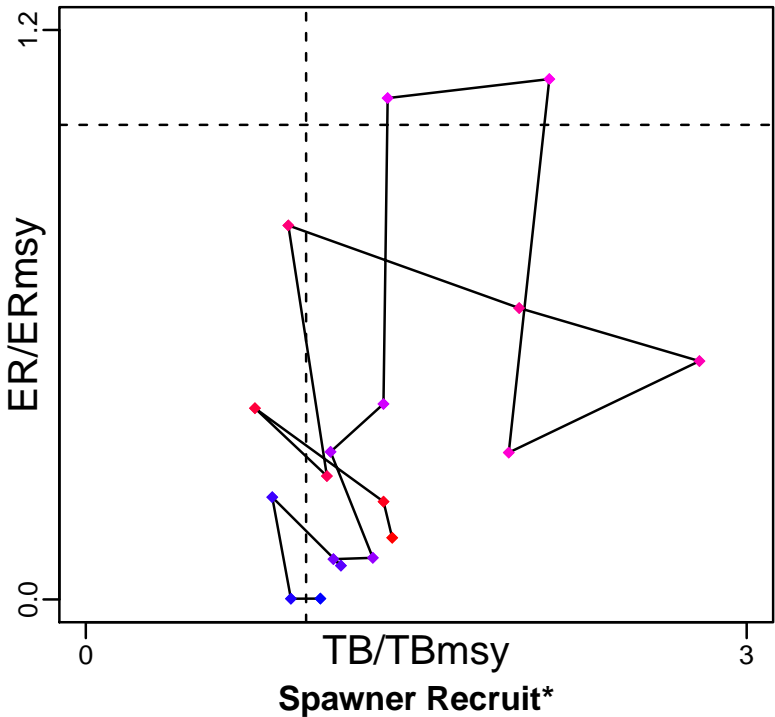
Metadata	
Scientific Name	Capros aper
Current Assess ID	WGWISE-BOARVI-VIII-1991-2019-ICESIMP2021
Area	ICES 6-8
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2013, 2014, 2016, 2017, 2019, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2019	279,247
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.224
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	62,435
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

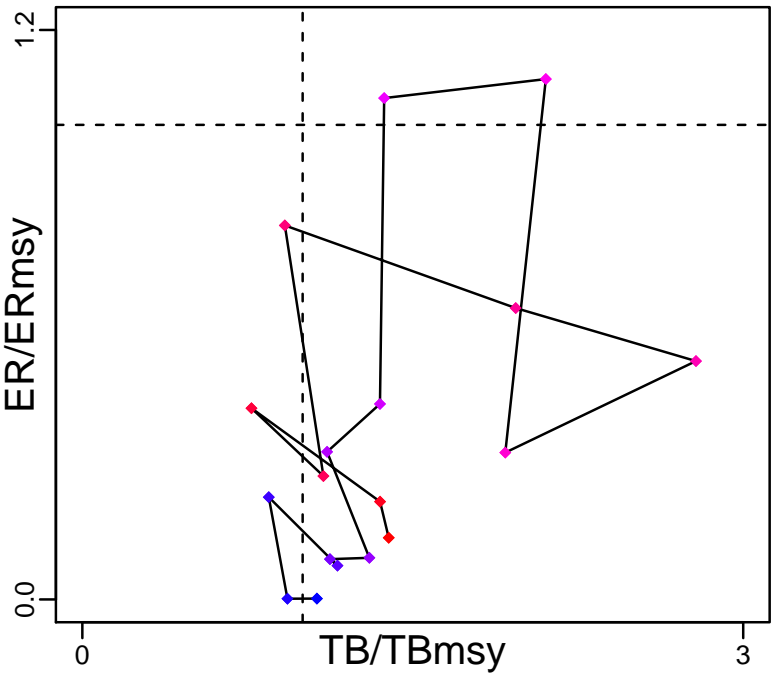
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	270,900	-	-
SSB	SSB-MT	2019	270,900	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2016	0.581	-	-
ER	ER-calc-ratio	2019	0.029	-	-
TC	TC-MT	2019	11,286		
TL	TL-MT	2019	9927		
TB/TBmsy	TB-MT/TBmsy-est-MT	2019	0.97		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2017	1.96		
F/Fmsy	FdivFmsy-dimensionless	2017	0.609		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Boarfish ICES 6-8 [BOARVI-VIII]

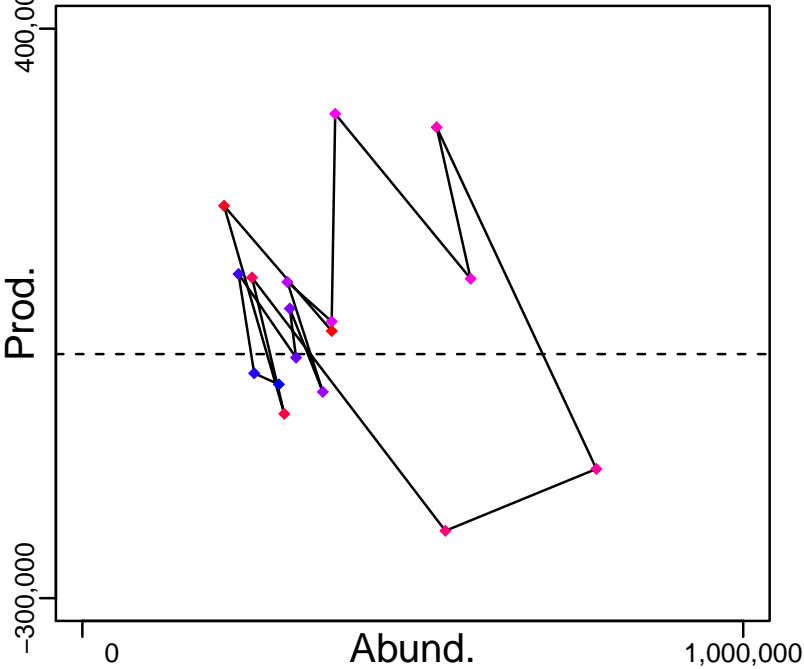
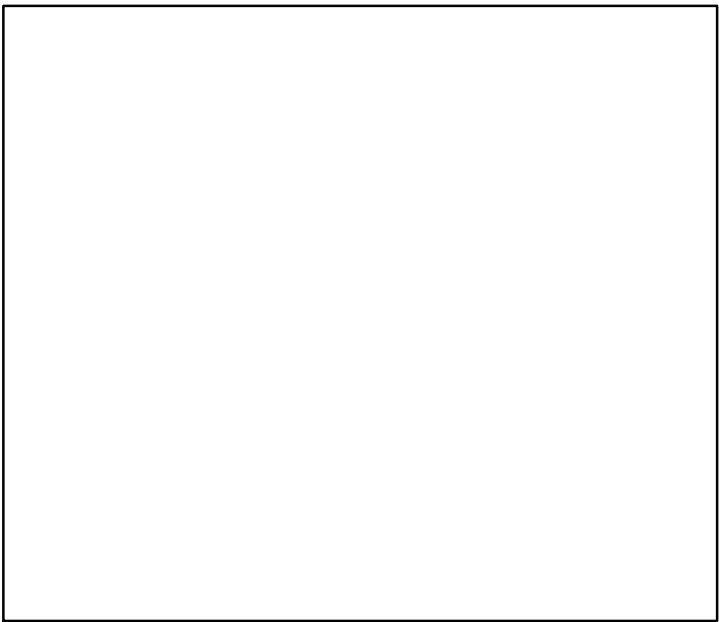
Kobe MSYpref (1991-2019-ICESIMP2021)



Kobe MGTpref (1991-2019-ICESIMP2021)



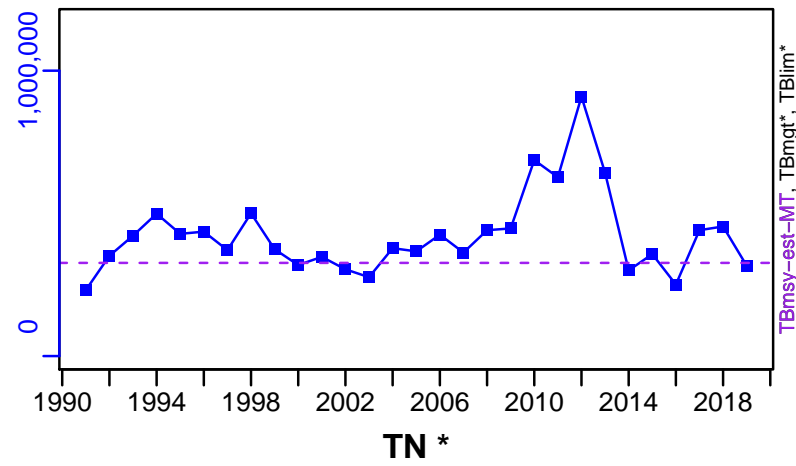
Production (1991-2019-ICESIMP2021)



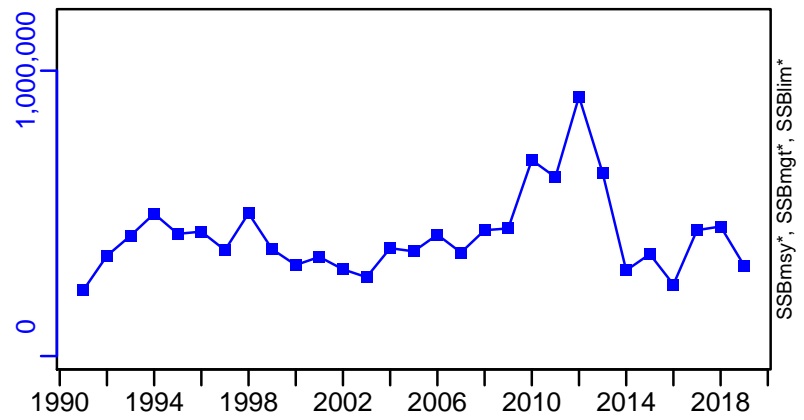
◆ Start Year ◆ End Year * No Data

Boarfish ICES 6-8 [BOARVI-VIII]

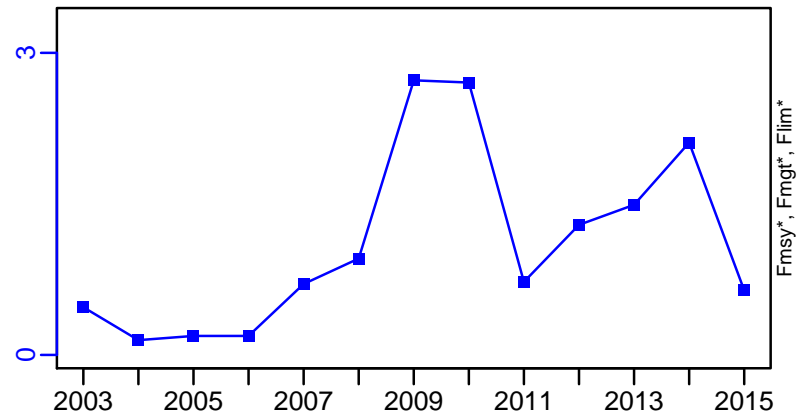
TB-MT (1991-2019-ICESIMP2021)



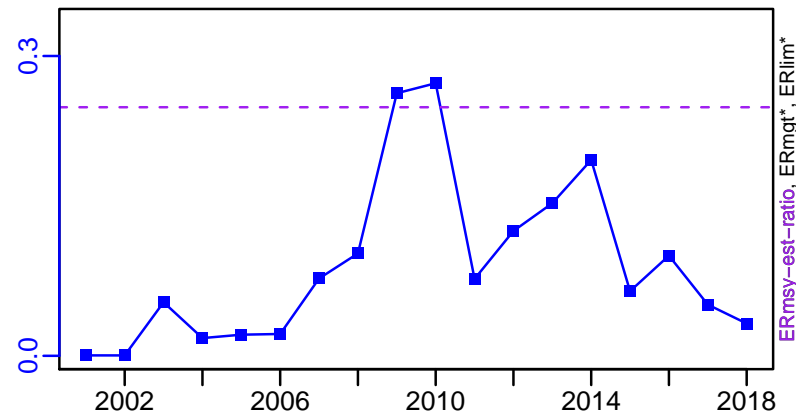
SSB-MT (1991-2019-ICESIMP2021)



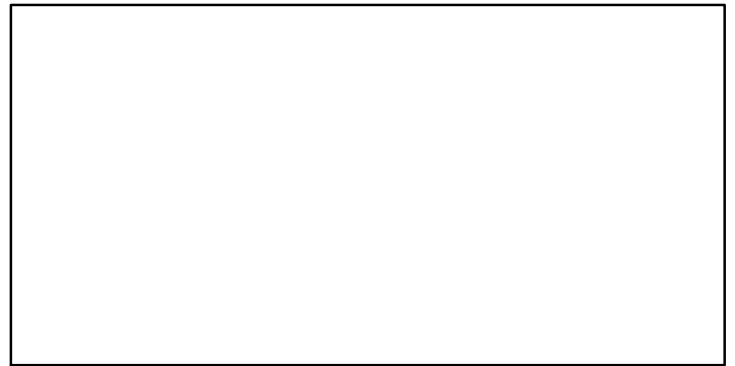
F-relative (1991-2016-ICESIMP2018)



ER-calc-ratio (1991-2019-ICESIMP2021)

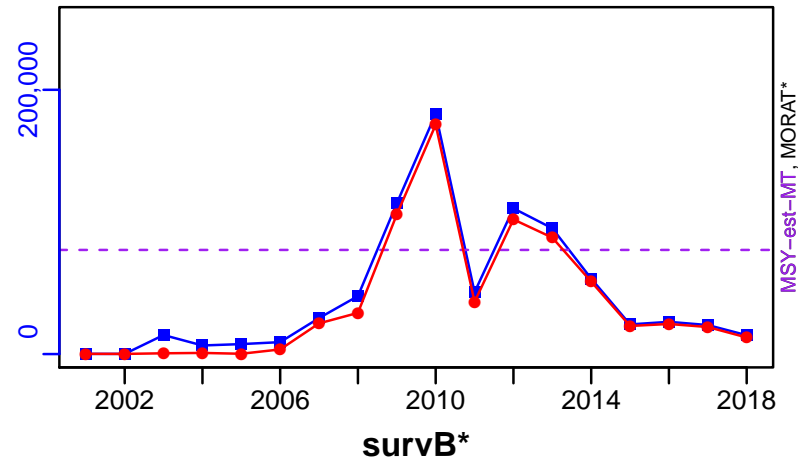


Recruits*



Boarfish ICES 6-8 [BOARVI-VIII]

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



TAC*, Cpair*, Cadv*



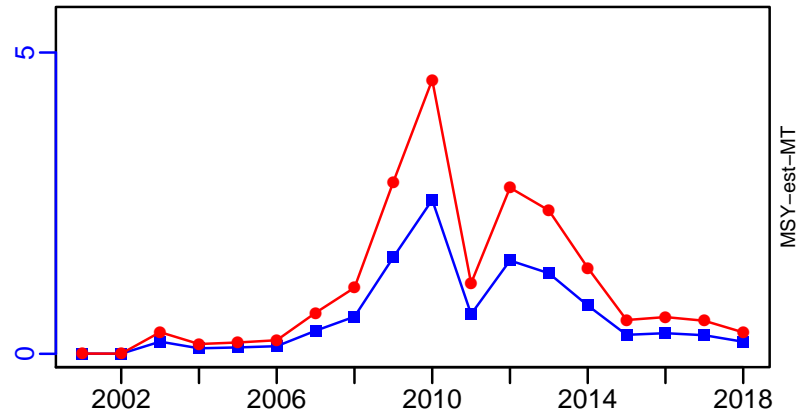
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1991-2019-ICESIMP2021)



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

Brill Baltic Areas 22-32 [BRILL2232]

Metadata	
Scientific Name	Scophthalmus rhombus
Current Assess ID	WGBFAS-BRILL2232-1970-2016-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2016, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	0.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	32		
TL	TL-MT	2016	40		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

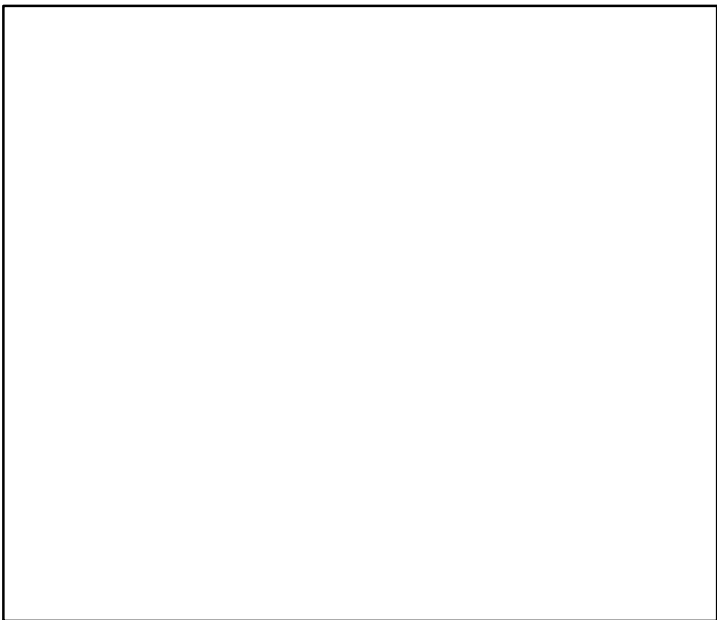
Kobe MSY*



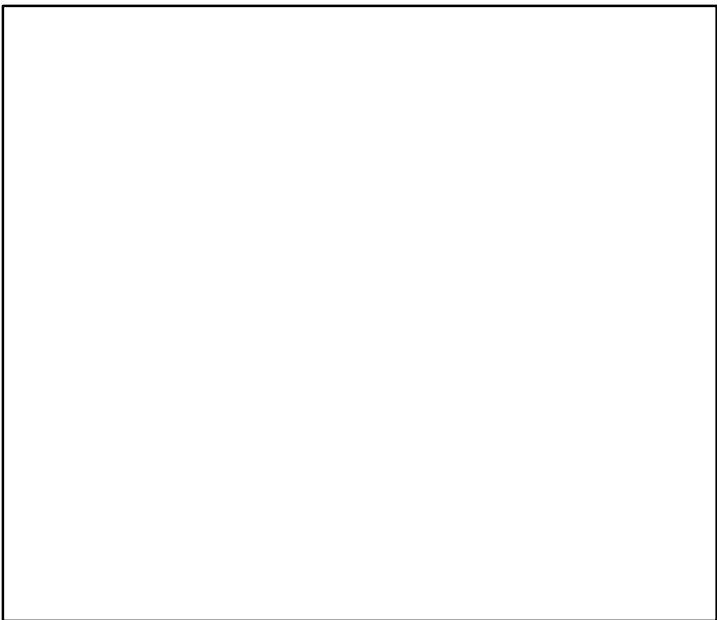
Kobe MGT*



Spawner Recruit*



Production*

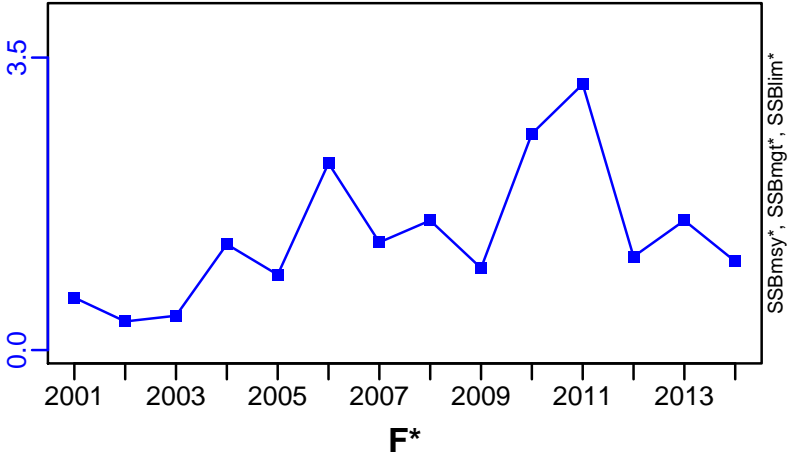


◆ Start Year ◆ End Year * No Data

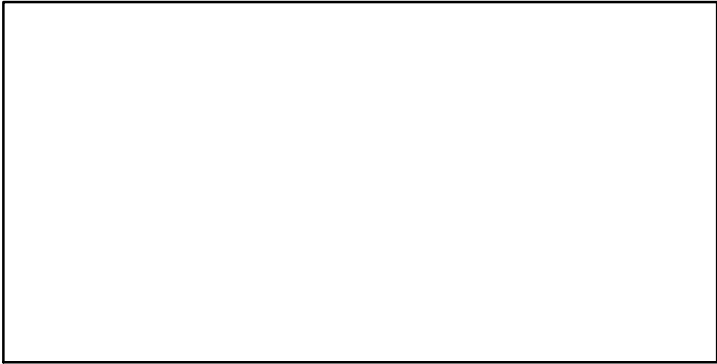
TB*



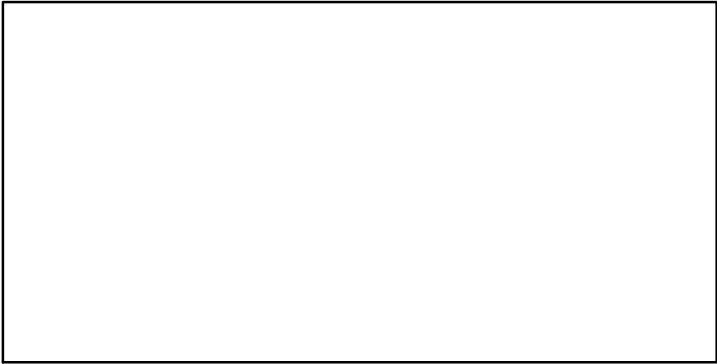
SSB-index (1970–2014–ICESIMP2018)



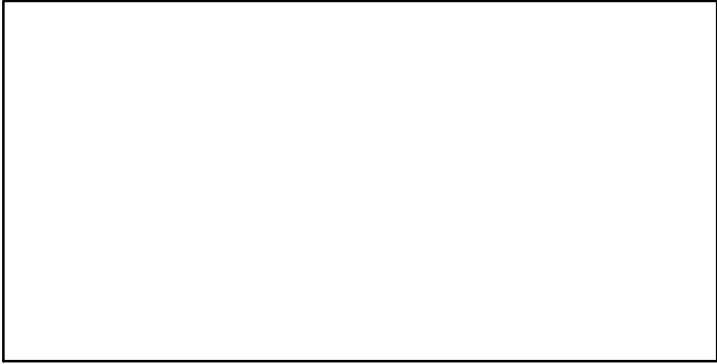
TN *



F*



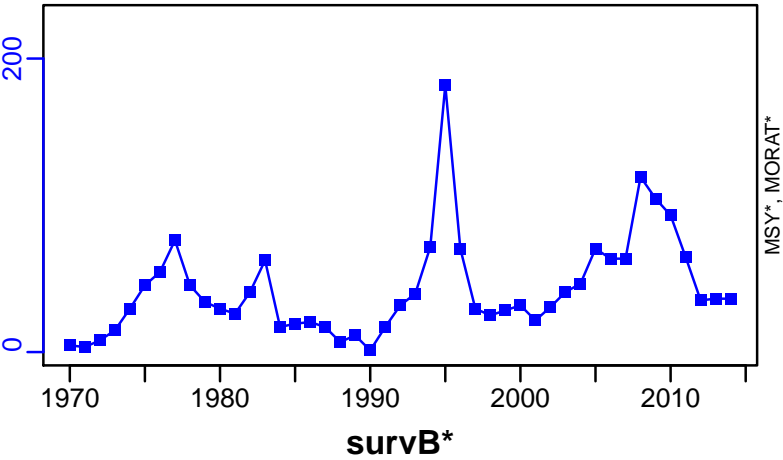
ER*



Recruits*



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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	46	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2620		
TL	TL-MT	2018	1933		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

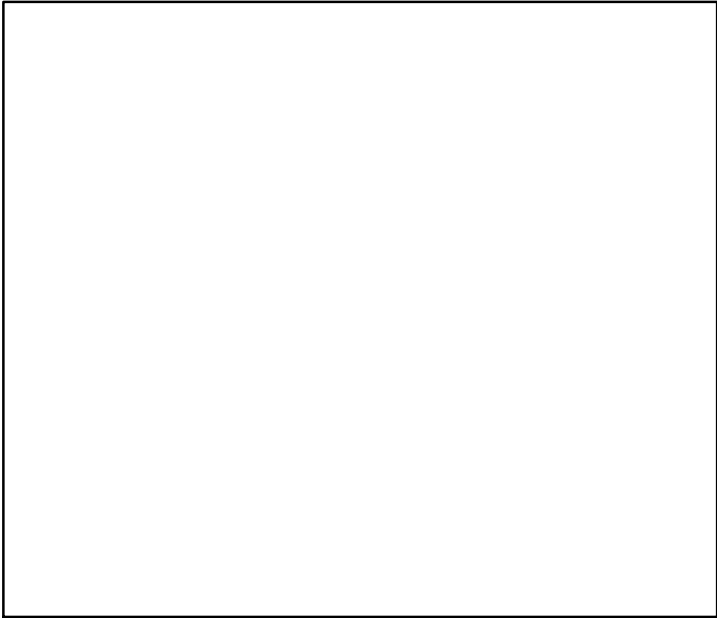
Kobe MSY*



Kobe MGT*



Spawner Recruit*

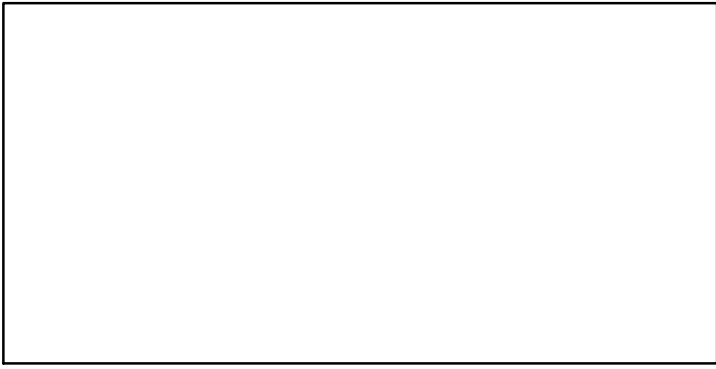


Production*

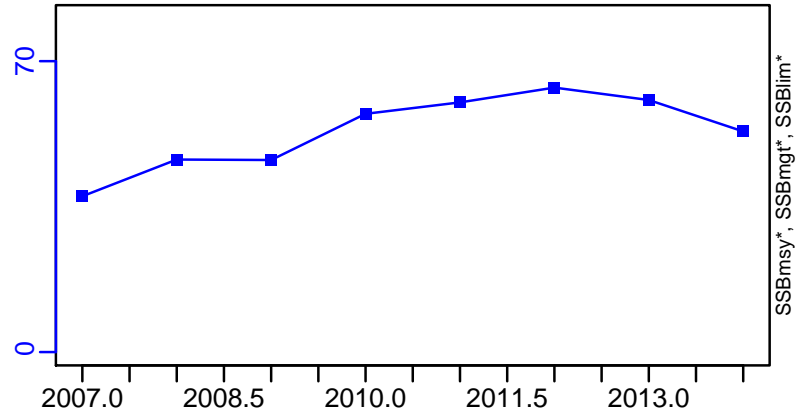


◆ Start Year ◆ End Year * No Data

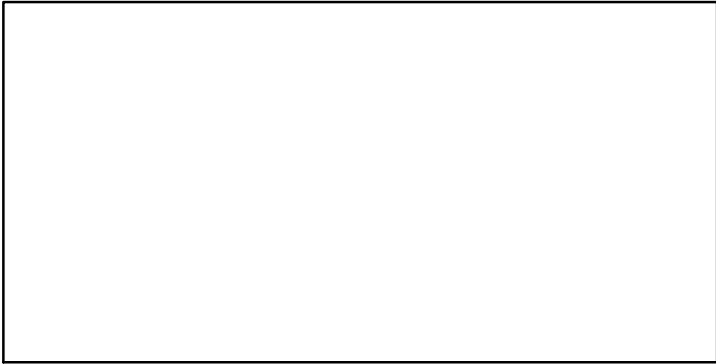
TB*



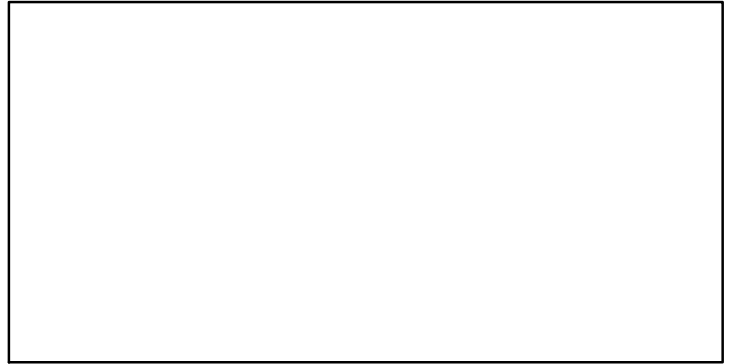
SSB-index (1950–2014–ICESIMP2018)



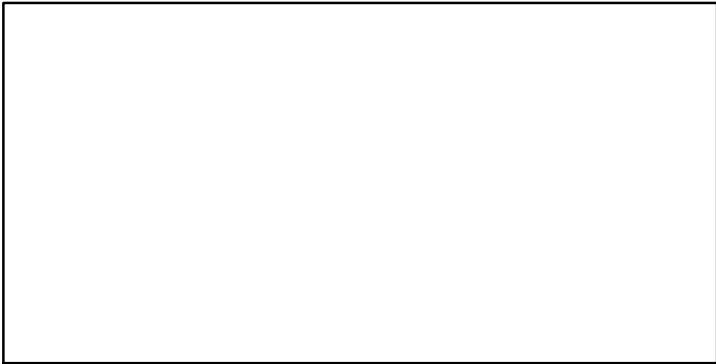
TN *



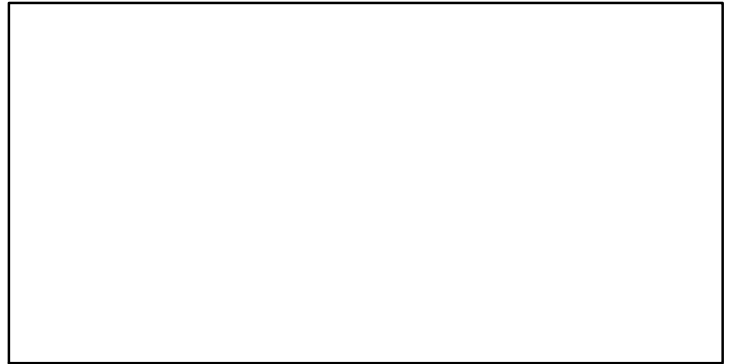
F*



ER*



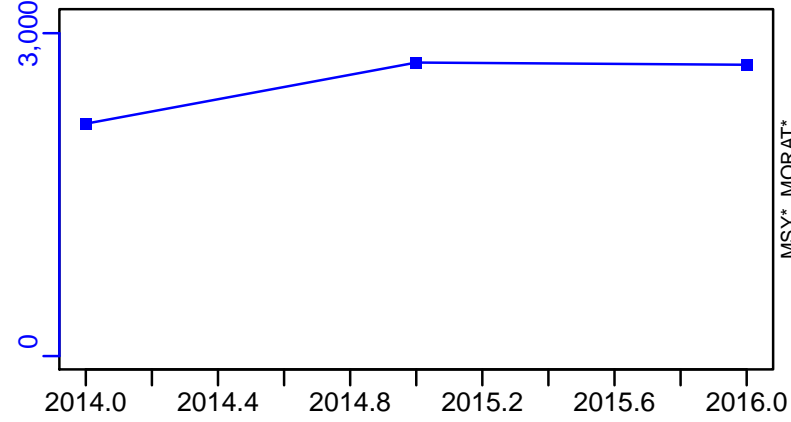
Recruits*



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

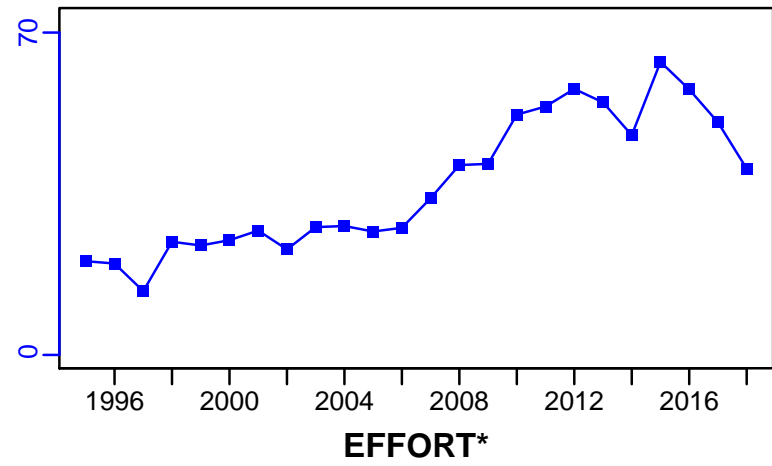
TC–MT, TL*, RecC* (1950–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*

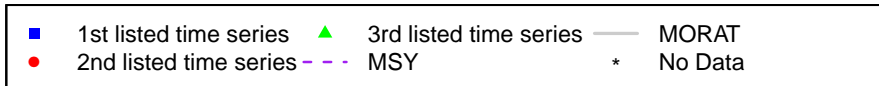
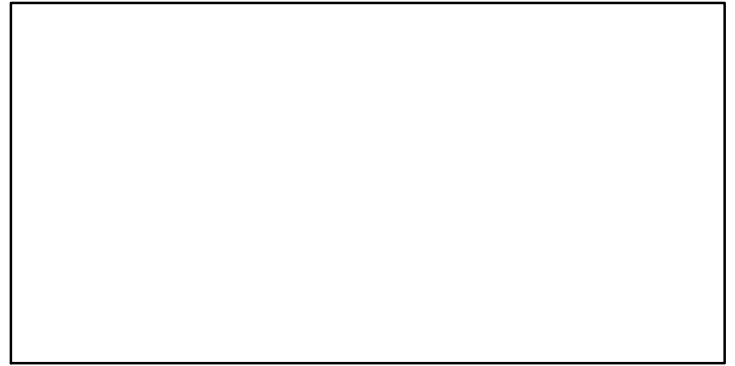
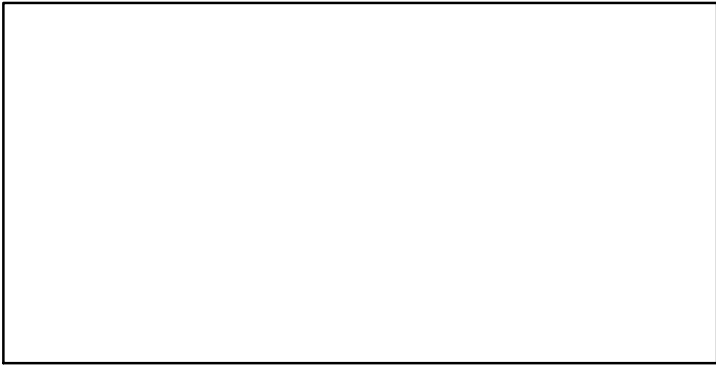


survB–index (1950–2018–ICESIMP2021)

CPUE*



CdivMSY*



Basking shark Northeast Atlantic [BSKSHARNEATL]

Metadata	
Scientific Name	Cetorhinus maximus
Current Assess ID	WGEF-BSKSHARNEATL-1977-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 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

Basking shark Northeast Atlantic [BSKSHARNEATL]

TB*



SSB*



TN *



F*



ER*



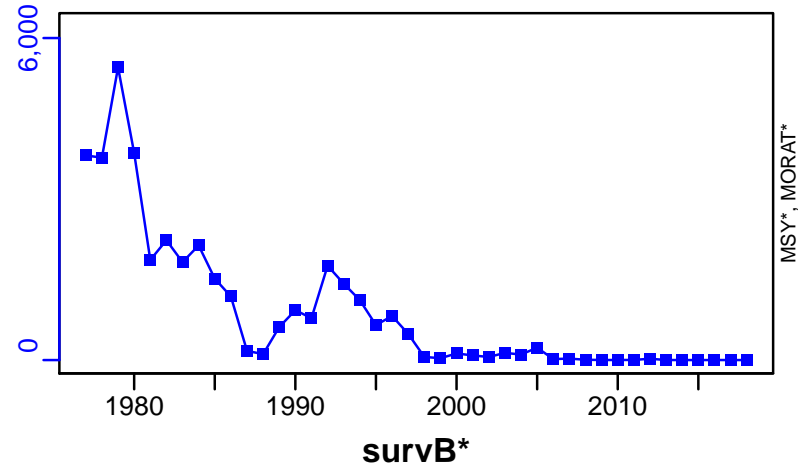
Recruits*



Basking shark Northeast Atlantic [BSKSHARNEATL]

TL-MT, TC*, RecC* (1977-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



Blue whiting Northeast Atlantic [BWHITNEA]

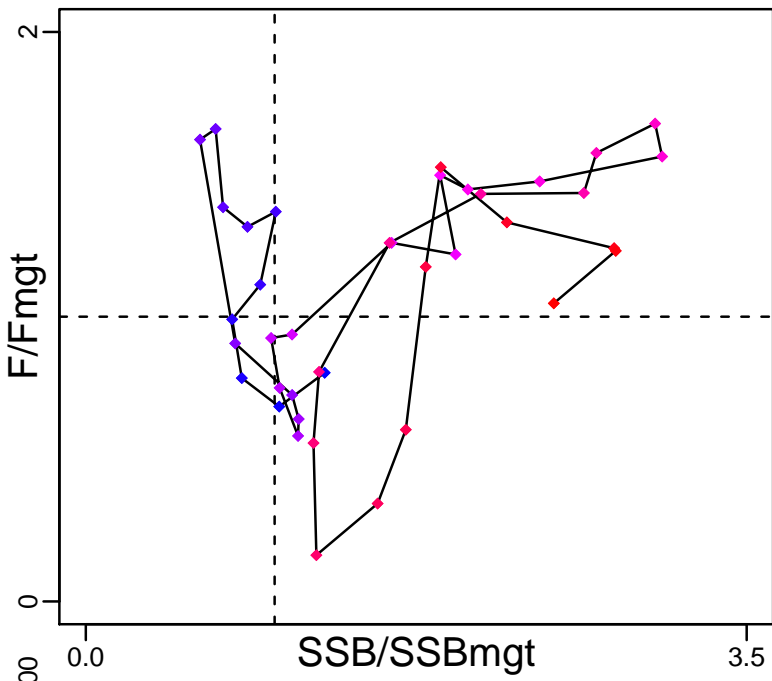
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	WGWISE-BWHITNEA-1980-2020-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2012, 2013, 2014, 2015, 2017, 2018, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	11,124,079
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.32
ERmsy	ERmsy-est-ratio	2020	0.341
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	2,250,000
Fmgt	Fmgt-1/yr	2020	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	1,616,060
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1,500,000
Flim	Flim-1/yr	2018	0.88
ERlim	-	-	-

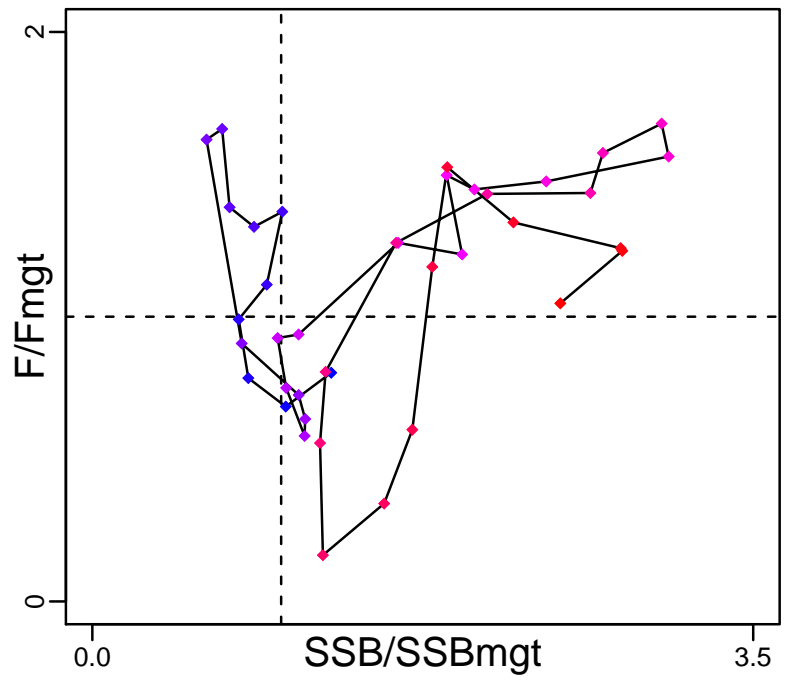
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	5,700,362	-	-
SSB	SSB-MT	2020	4,325,386	-	-
TN	-	-	-	-	-
R	R-E00	2020	5,466,776,000	-	1
F	F-1/yr	2020	0.335	-	3 to 7
ER	ER-calc-ratio	2020	0.21	-	-
TC	TC-MT	2020	1,444,301		
TL	TL-MT	2020	1,444,301		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	0.567		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.256		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2020	0.615		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.922		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.047		
ER/ERmgt	-	-	-		

Blue whiting Northeast Atlantic [BWHITNEA]

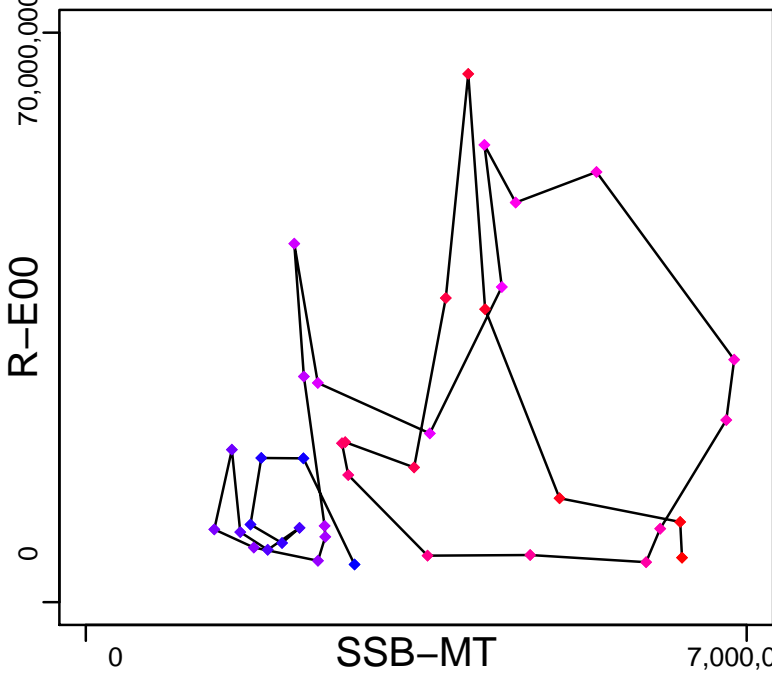
Kobe MSYpref (1980–2020–ICESIMP2021)



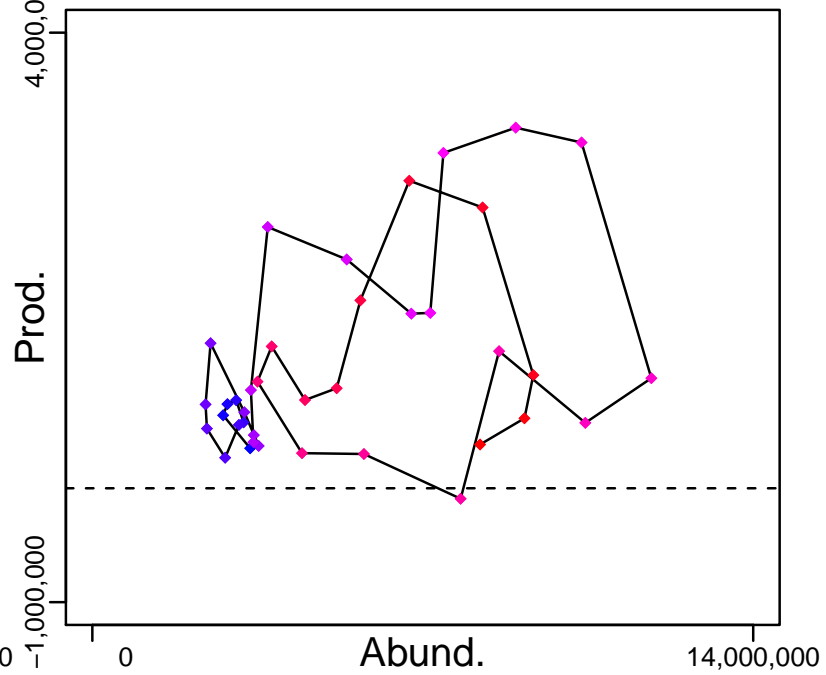
Kobe MGTpref (1980–2020–ICESIMP2021)



Spawner Recruit (1980–2020–ICESIMP2021)



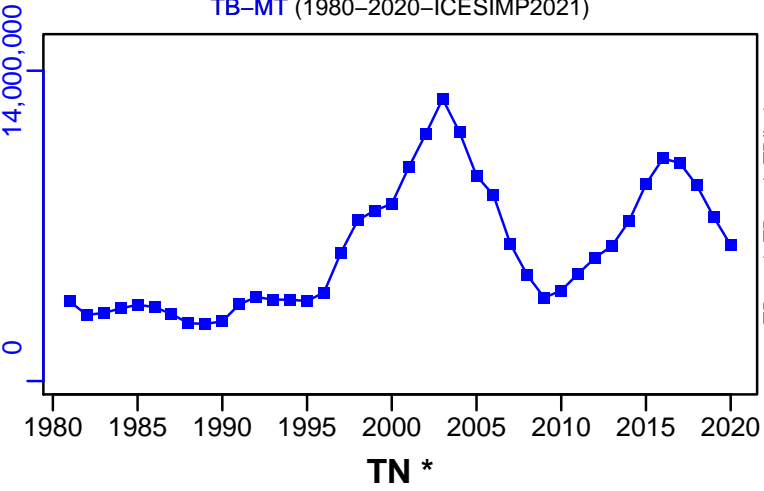
Production (1980–2020–ICESIMP2021)



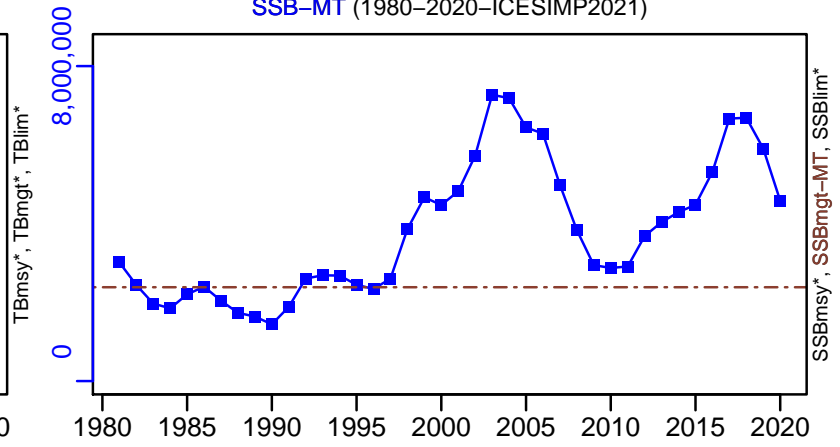
◆ Start Year ◆ End Year * No Data

Blue whiting Northeast Atlantic [BWHITNEA]

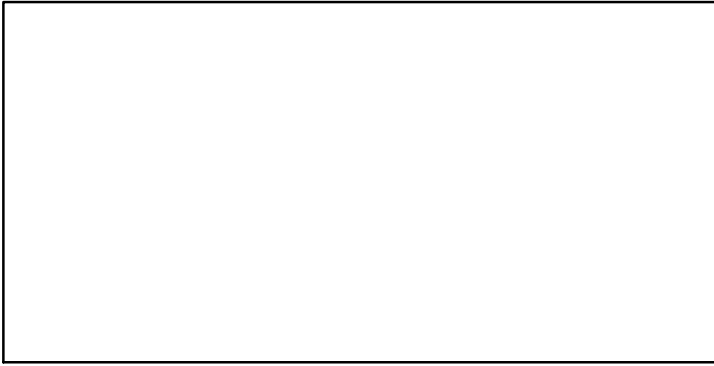
TB-MT (1980-2020-ICESIMP2021)



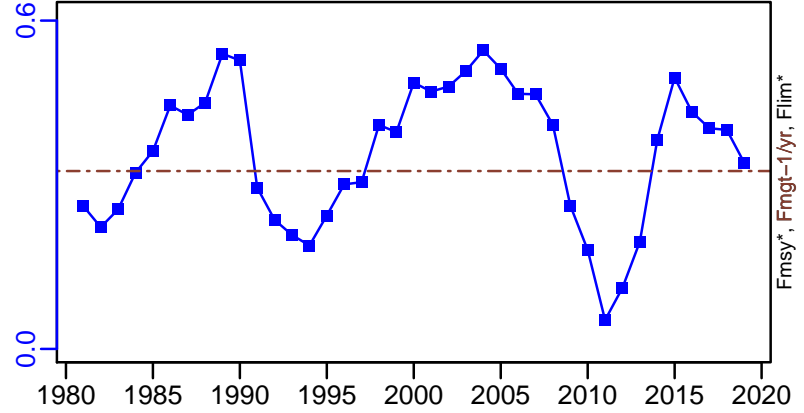
SSB-MT (1980-2020-ICESIMP2021)



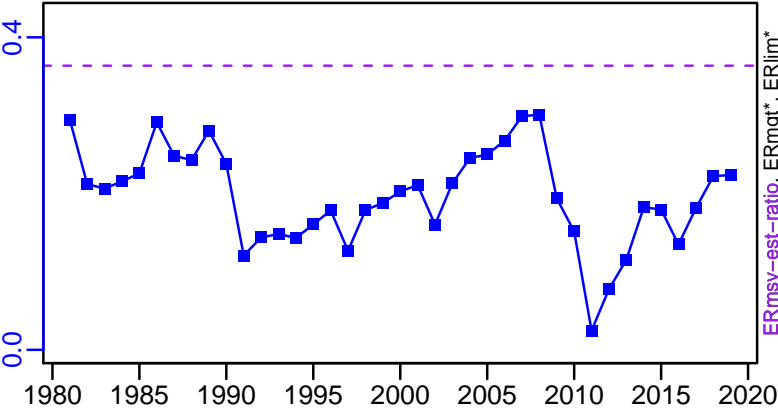
TN *



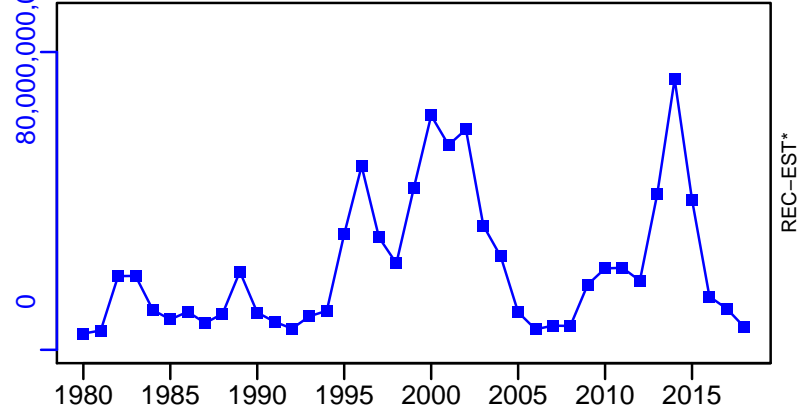
F-1/yr (1980-2020-ICESIMP2021)



ER-calc-ratio (1980-2020-ICESIMP2021)

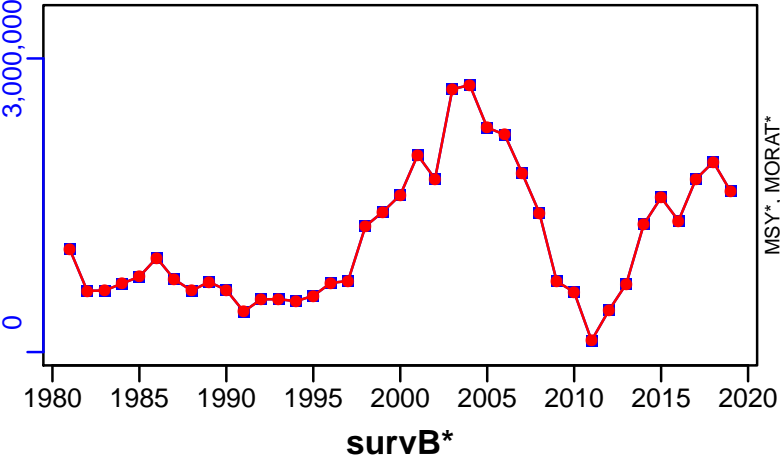


R-E00 (1980-2020-ICESIMP2021)



Blue whiting Northeast Atlantic [BWHITNEA]

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



TAC*, Cpair*, Cadv*



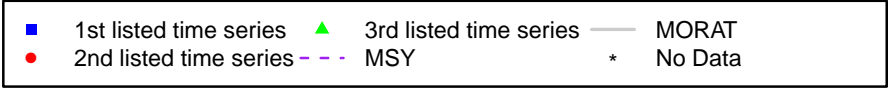
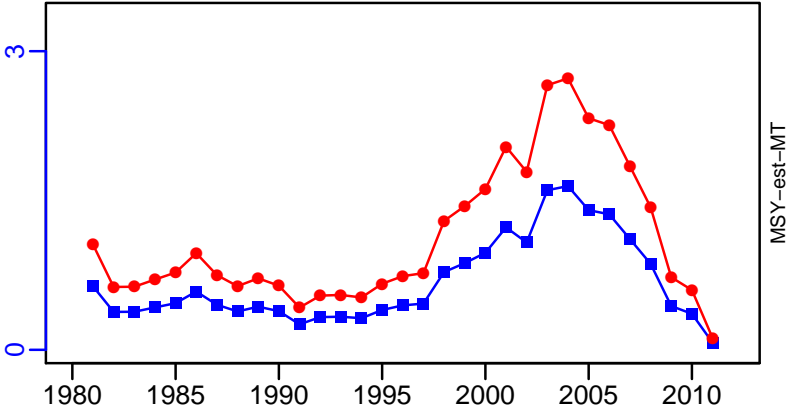
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1980–2012–CHING)



Cuckoo ray ICES 3a-4 [CKRAYIIIa-IV]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYIIIa-IV-1991-2018-ICESIMP2021
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	1.03	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	180		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



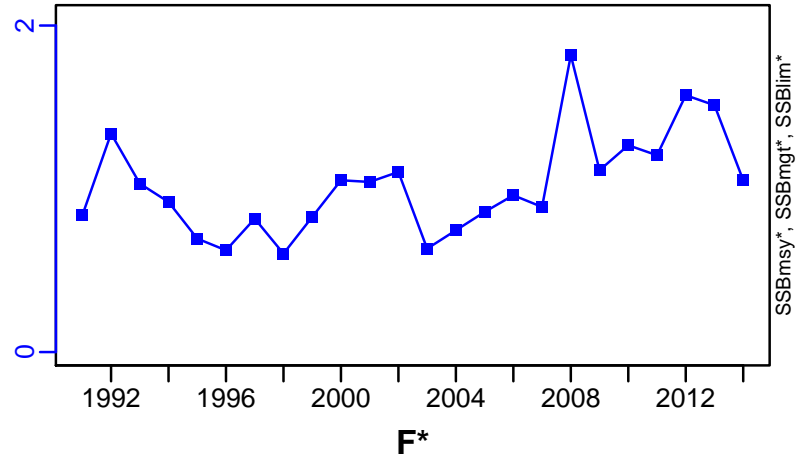
◆ Start Year ◆ End Year * No Data

Cuckoo ray ICES 3a-4 [CKRAYIIIa-IV]

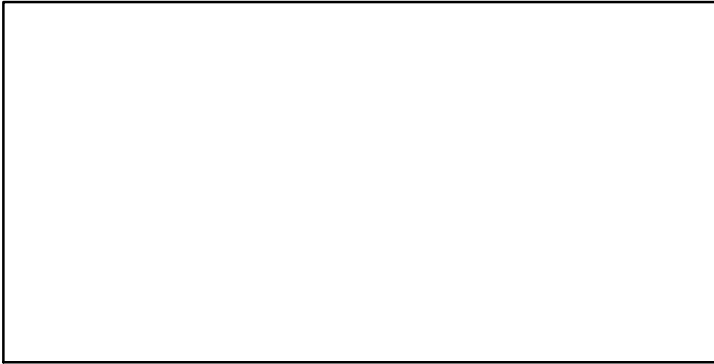
TB*



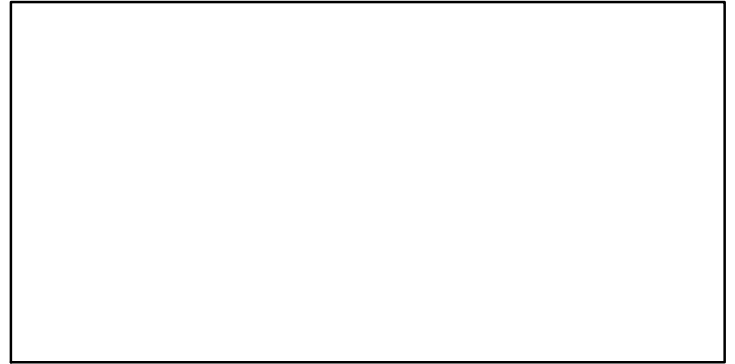
SSB-index (1991-2014-ICESIMP2018)



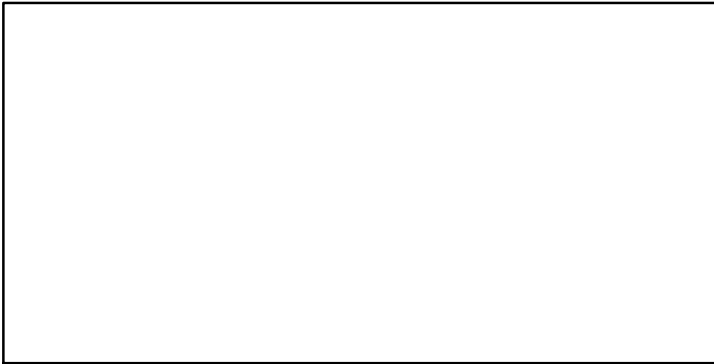
TN *



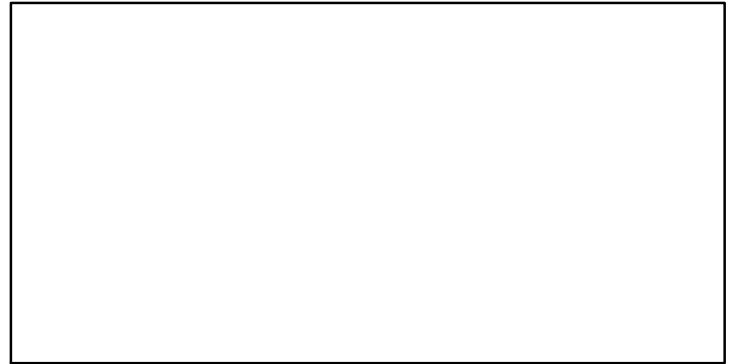
F*



ER*



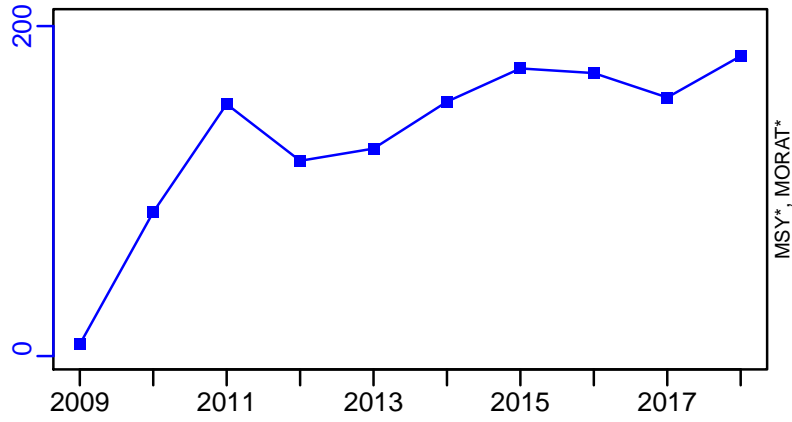
Recruits*



Cuckoo ray ICES 3a-4 [CKRAYIIIa-IV]

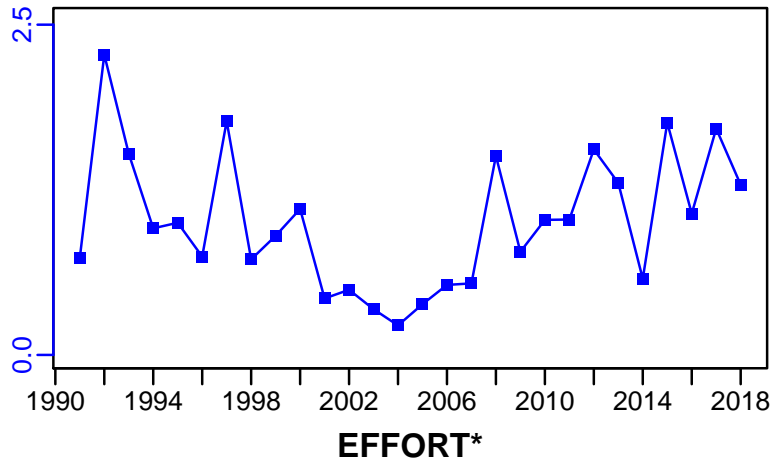
TL-MT, TC*, RecC* (1991-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



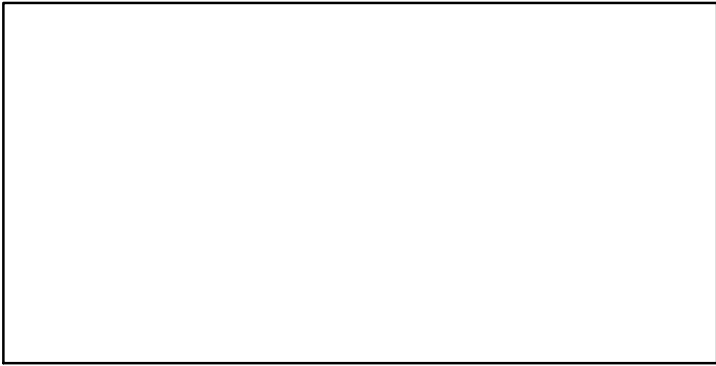
survB-index (1991-2018-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Cuckoo ray Portuguese Waters -East [CKRAYIXa]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYIXa-1998-2015-ICESIMP2018
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	2.62	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	19		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



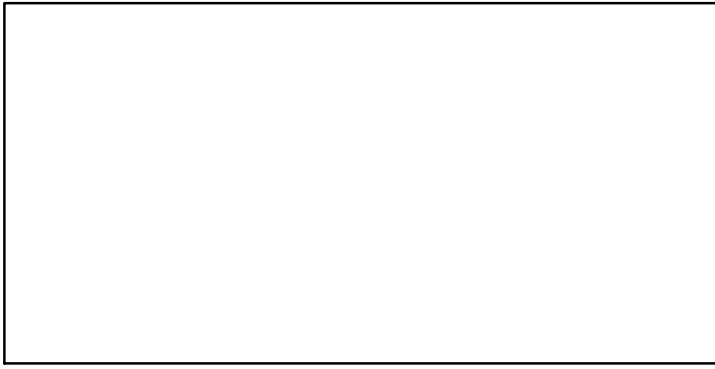
Production*



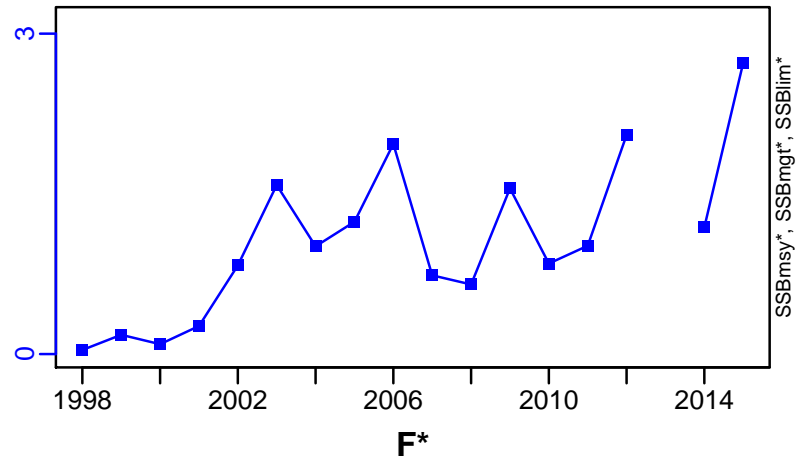
◆ Start Year ◆ End Year * No Data

Cuckoo ray Portugese Waters –East [CKRAYIXa]

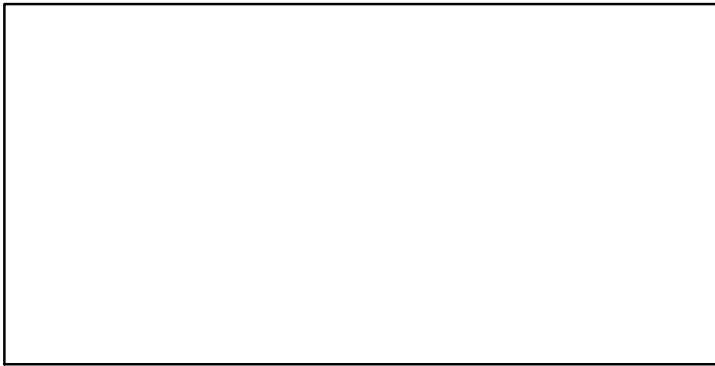
TB*



SSB-index (1998–2015–ICESIMP2018)



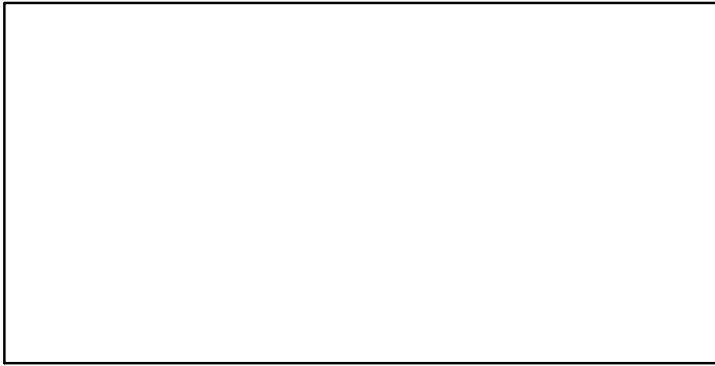
TN *



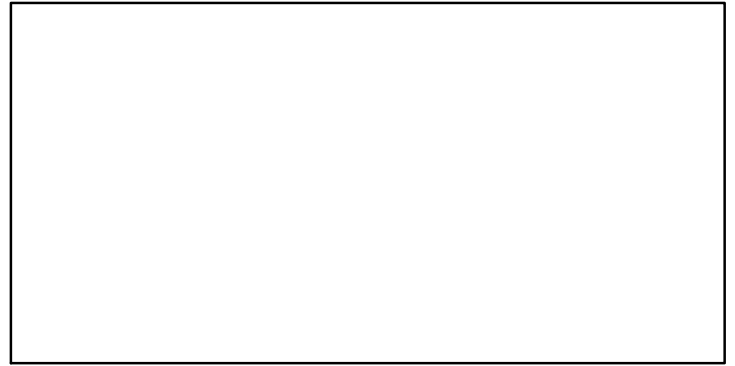
F*



ER*



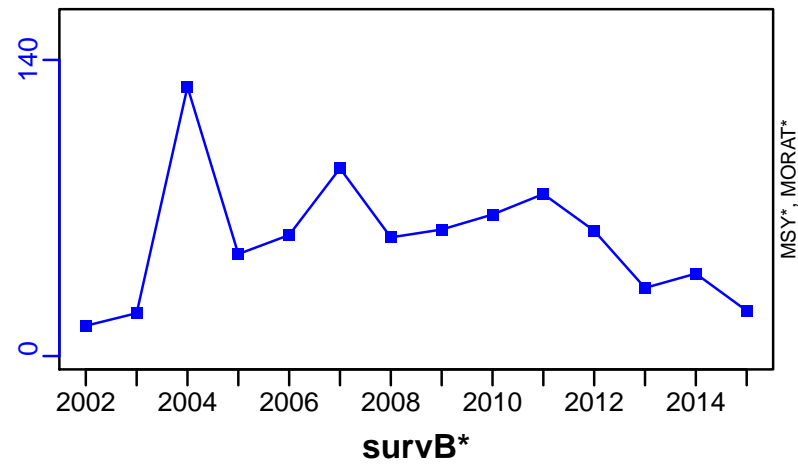
Recruits*



Cuckoo ray Portuguese Waters –East [CKRAYIXa]

TL–MT, TC*, RecC* (1998–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Cuckoo ray Bay of Biscay -South [CKRAYVIIIc]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYVIIIc-1999-2015-ICESIMP2018
Area	Bay of Biscay -South
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	0.309	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	15		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



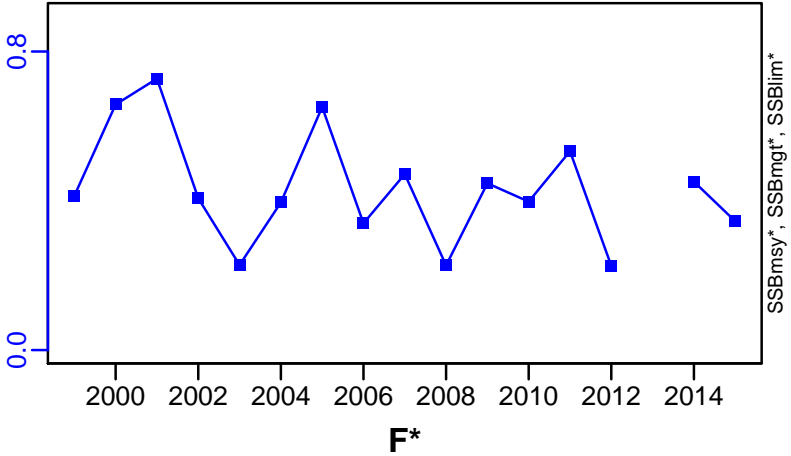
◆ Start Year ◆ End Year * No Data

Cuckoo ray Bay of Biscay –South [CKRAYVIIIc]

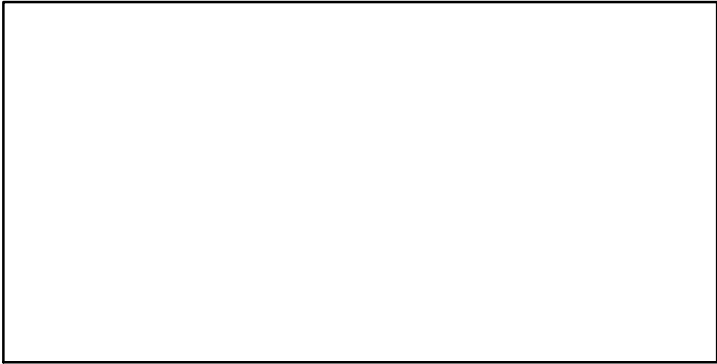
TB*



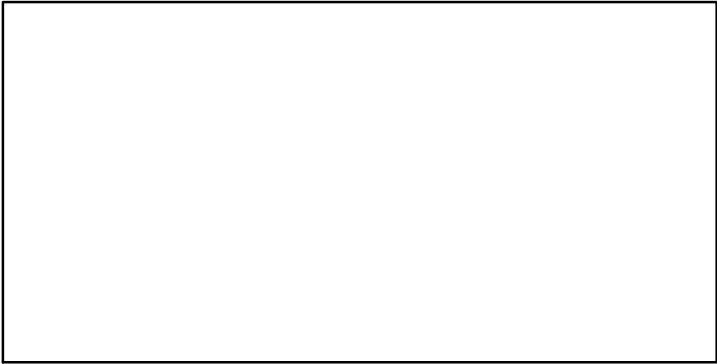
SSB-index (1999–2015–ICESIMP2018)



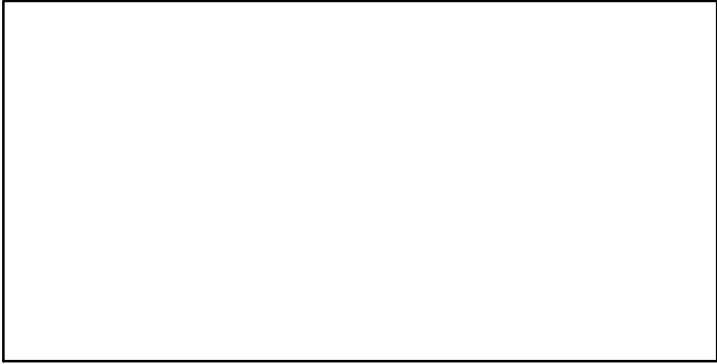
TN *



F*



ER*

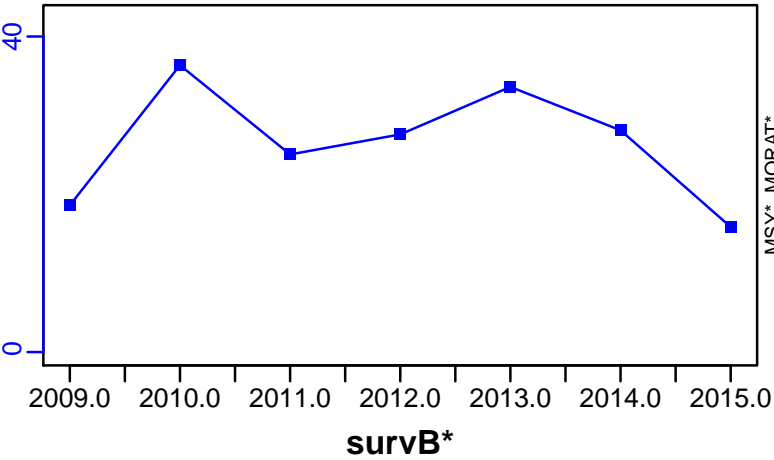


Recruits*



Cuckoo ray Bay of Biscay –South [CKRAYVIIIc]

TL–MT, TC*, RecC* (1999–2015–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Cuckoo ray ICES 6-7 [CKRAYVI-VII]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYVI-VII-2005-2015-ICESIMP2018
Area	ICES 6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.51	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	3360		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



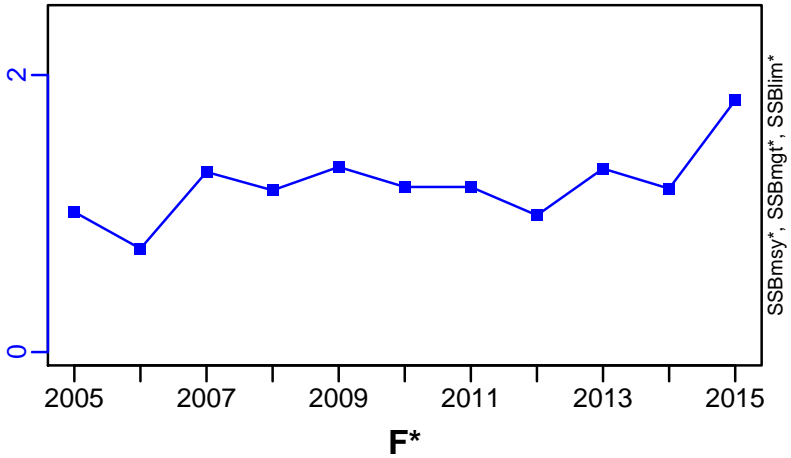
◆ Start Year ◆ End Year * No Data

Cuckoo ray ICES 6–7 [CKRAYVI–VII]

TB*



SSB-index (2005–2015–ICESIMP2018)



TN *



F*



ER*

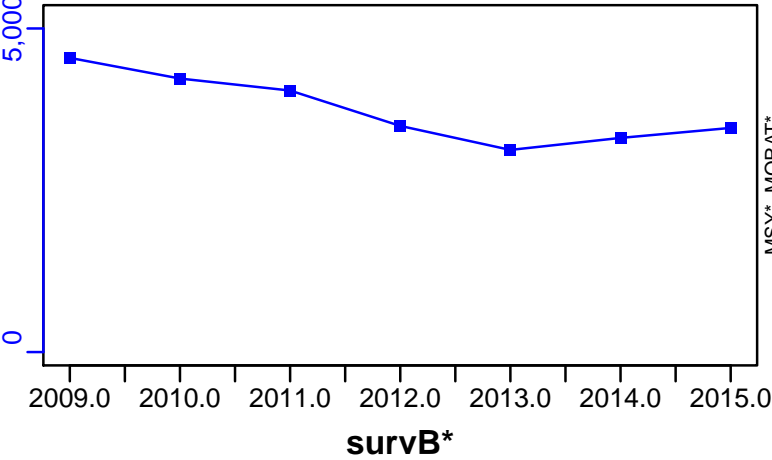


Recruits*

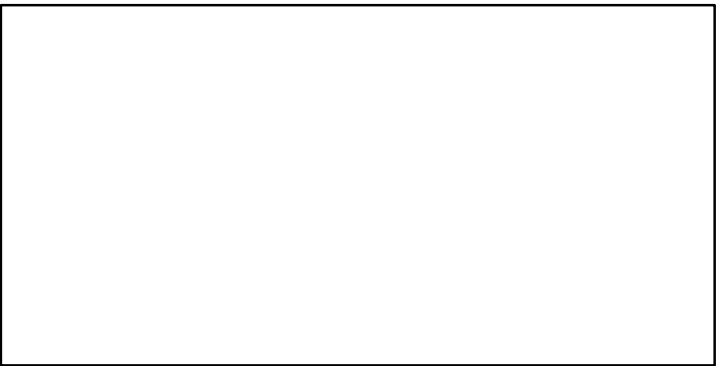


Cuckoo ray ICES 6–7 [CKRAYVI–VII]

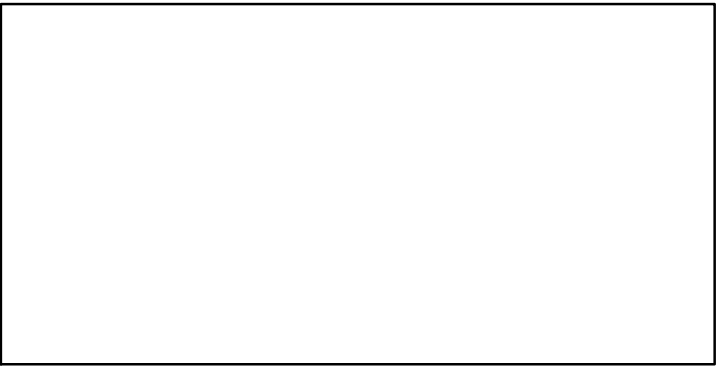
TL–MT, TC*, RecC* (2005–2015–ICESIMP2018)



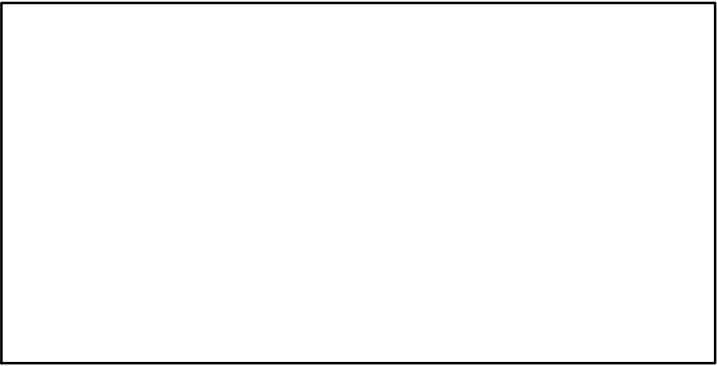
TAC*, Cpair*, Cadv*



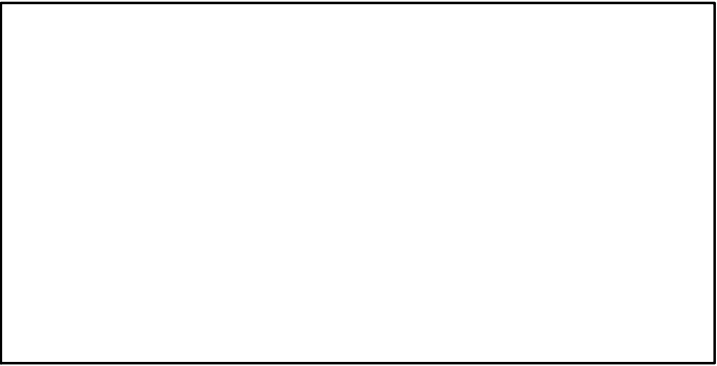
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Western Baltic [CODBA2224]

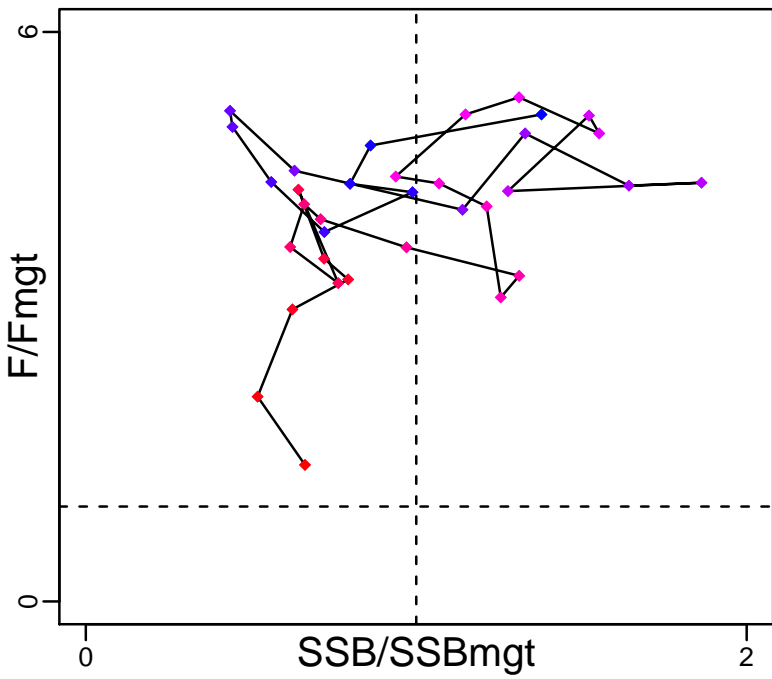
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2224-1984-2019-ICESIMP2021
Area	Western Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2013, 2014, 2019, 2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2012	35,333
Fmsy	Fmsy-1/yr	2018	0.26
ERmsy	ERmsy-est-ratio	2019	0.464
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	21,876
Fmgt	Fmgt-1/yr	2019	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	23,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	27,400
Flim	Flim-1/yr	2018	1.01
ERlim	-	-	-

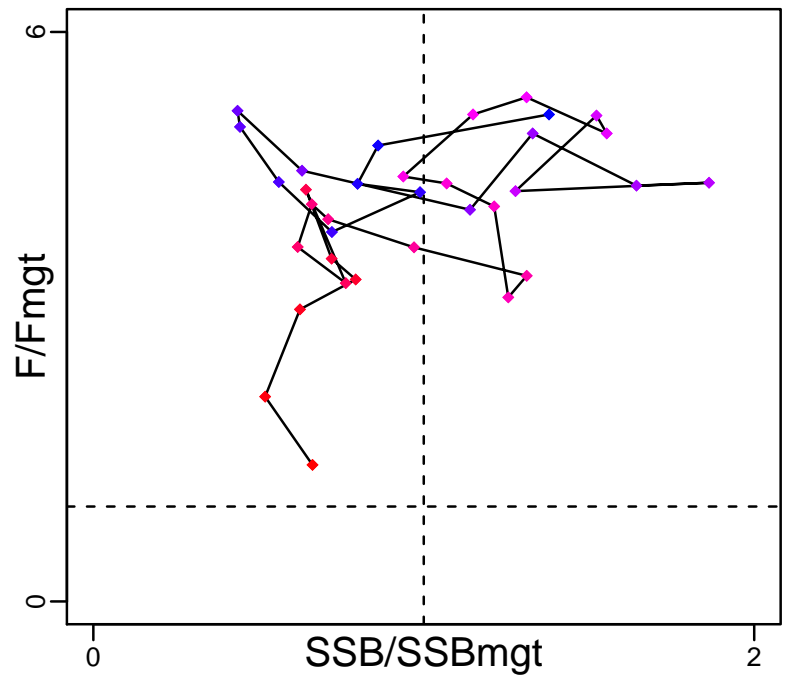
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	22,710	-	-
SSB	SSB-MT	2019	21,297	-	-
TN	-	-	-	-	-
R	R-E00	2019	2226	-	1
F	F-1/yr	2019	0.374	-	3 to 5
ER	ER-calc-ratio	2019	0.29	-	-
TC	TC-MT	2019	5312		
TL	TL-MT	2019	3546		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2012	1.027		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	2.312		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.625		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.974		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.438		
ER/ERmgt	-	-	-		

Atlantic cod Western Baltic [CODBA2224]

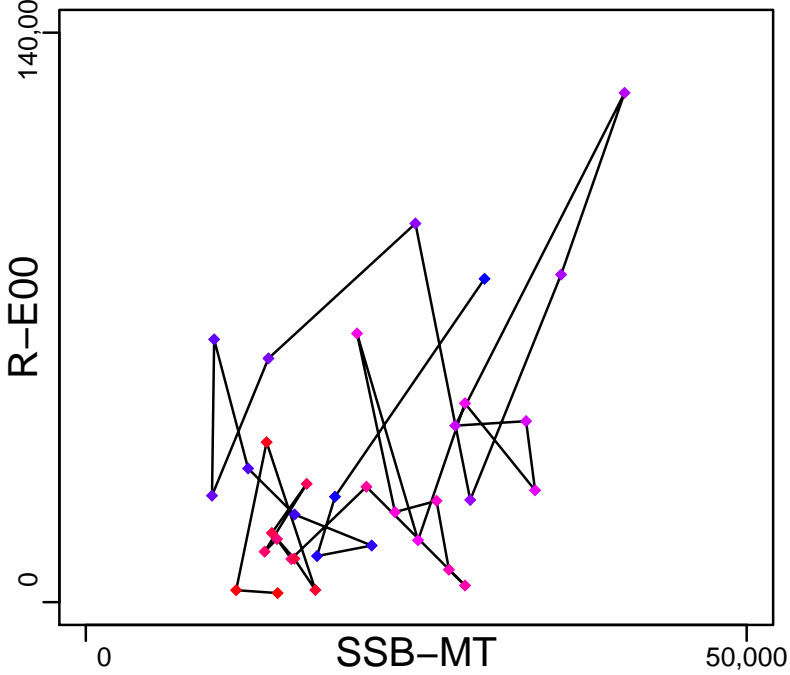
Kobe MSYpref (1984–2019–ICESIMP2021)



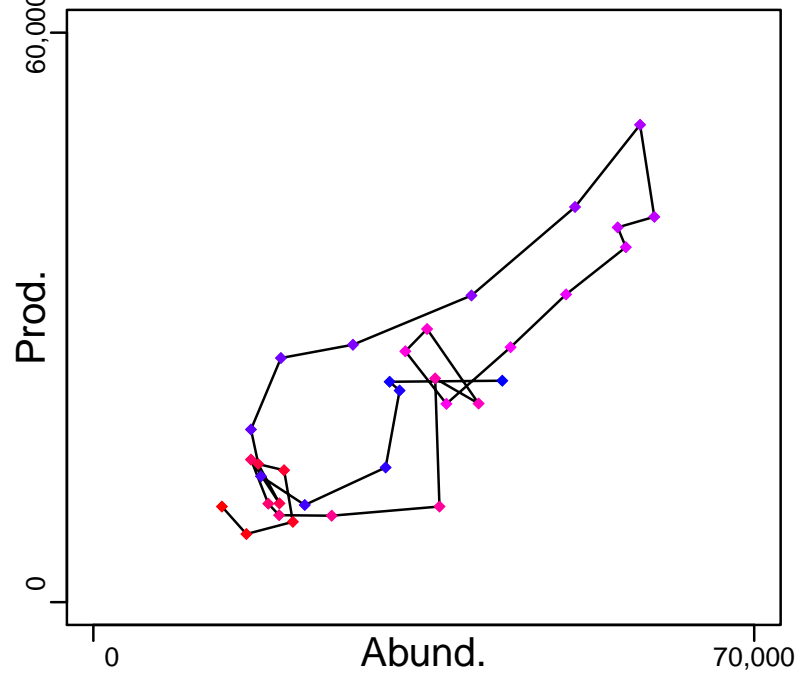
Kobe MGTpref (1984–2019–ICESIMP2021)



Spawner Recruit (1984–2019–ICESIMP2021)



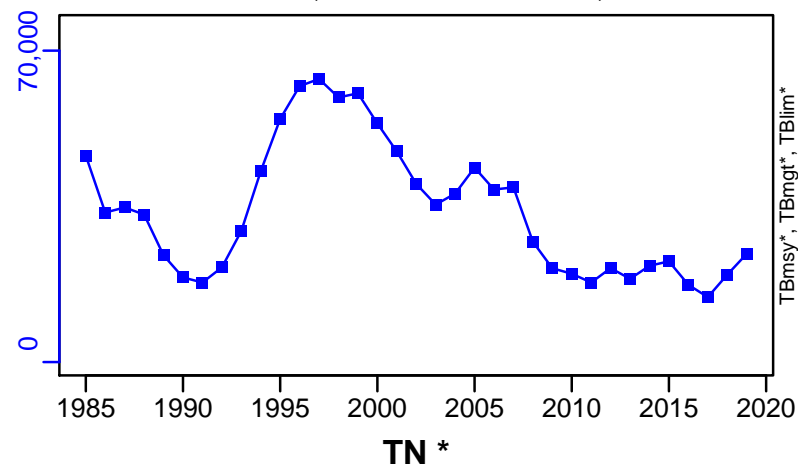
Production (1984–2019–ICESIMP2021)



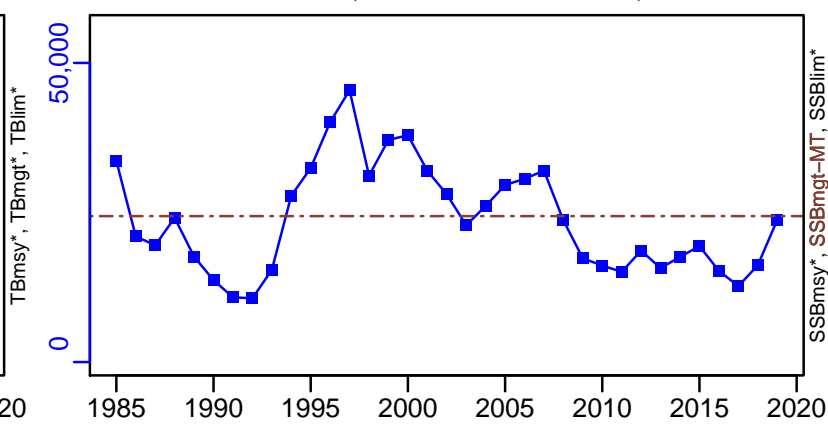
◆ Start Year ◆ End Year * No Data

Atlantic cod Western Baltic [CODBA2224]

TB-MT (1984–2019–ICESIMP2021)



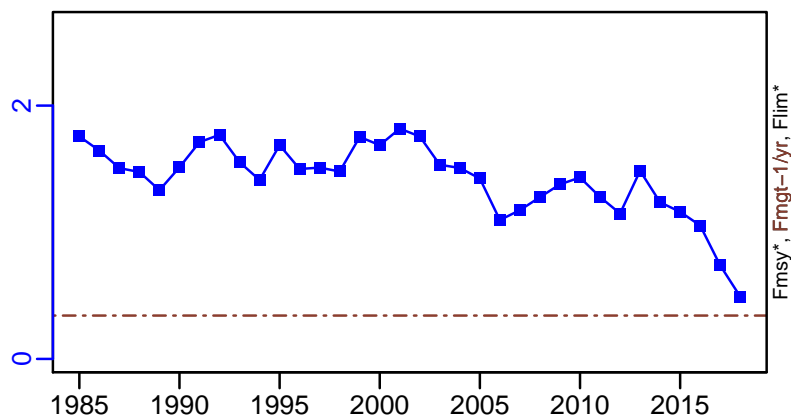
SSB-MT (1984–2019–ICESIMP2021)



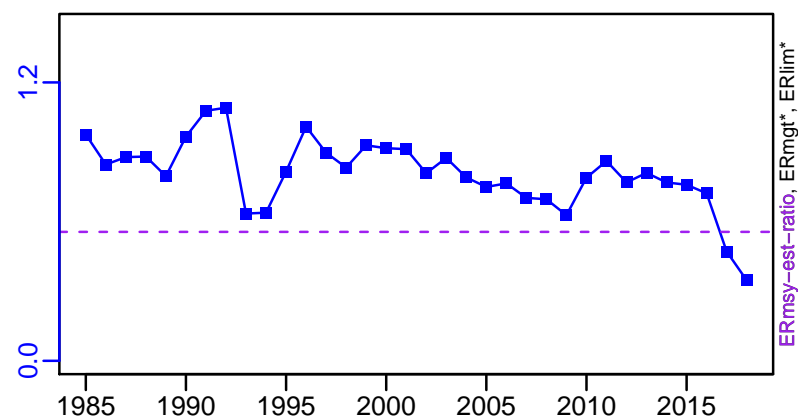
TN *



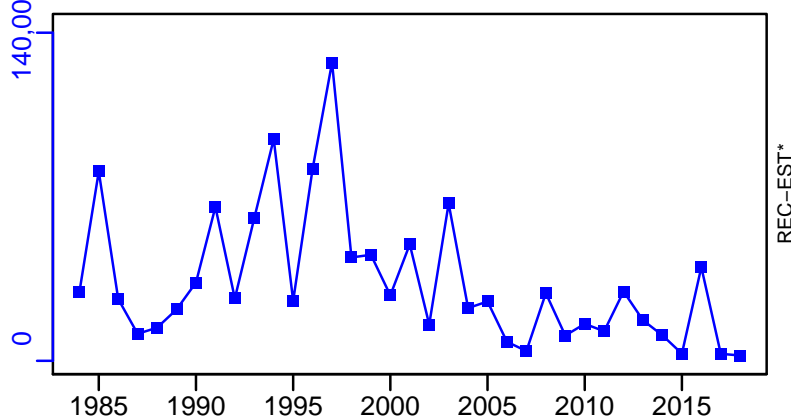
F-1/yr (1984–2019–ICESIMP2021)



ER-calc-ratio (1984–2019–ICESIMP2021)

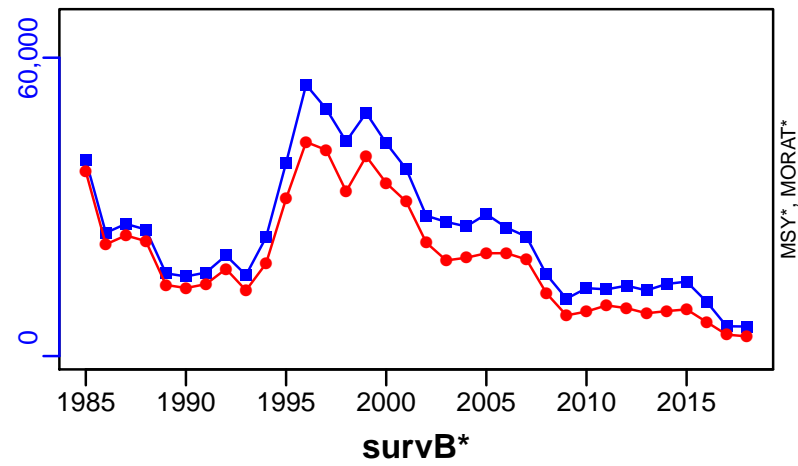


R-E00 (1984–2019–ICESIMP2021)



Atlantic cod Western Baltic [CODBA2224]

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



TAC*, Cpair*, Cadv*



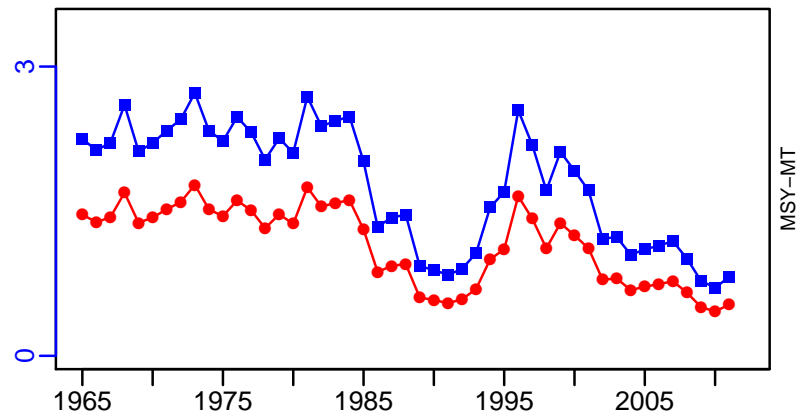
CPUE*



EFFORT*



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



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

Atlantic cod Eastern Baltic [CODBA2532]

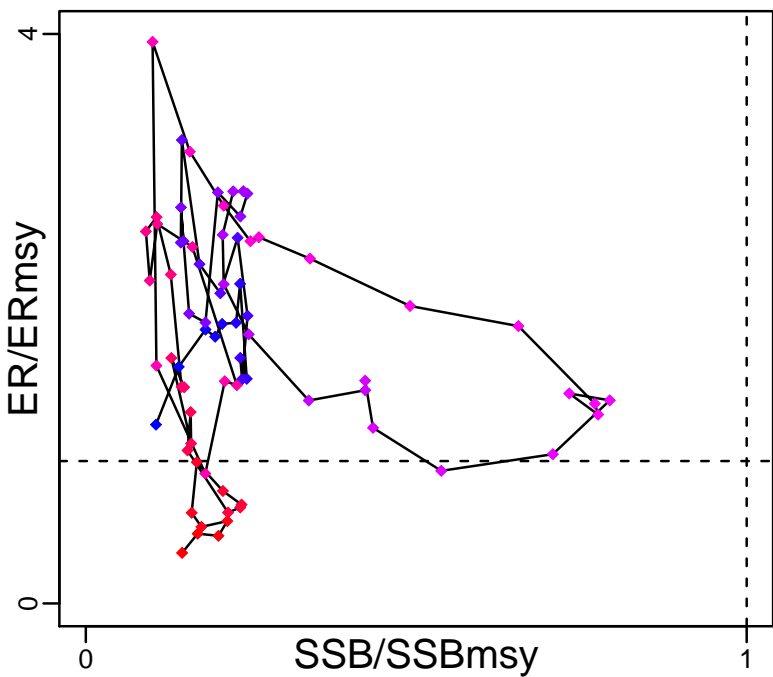
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2532-1946-2019-ICESIMP2021
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2019, 2013, 2016, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	1,517,840
SSBmsy	SSBmsy-est-MT	2019	574,795
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	ERmsy-est-ratio	2019	0.265
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	88,200
Fmgt	Fmgt-1/yr	2013	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	307,390
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2013	63,000
Flim	-	-	-
ERlim	-	-	-

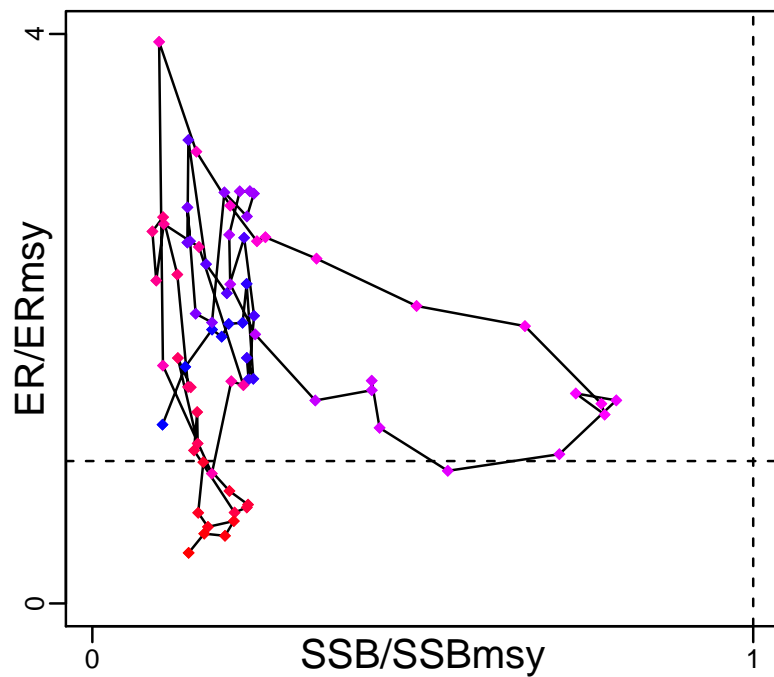
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	233,000	Both	-
SSB	SSB-MT	2019	66,412	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,358,730	-	0
F	F-1/yr	2019	0.21	-	4 to 6
ER	ER-calc-ratio	2019	0.094	-	-
TC	TC-MT	2017	30,900		
TL	TL-MT	2019	15,907		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	0.192		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	0.116		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.857		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.355		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	2.041		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	1.243		
ER/ERmgt	-	-	-		

Atlantic cod Eastern Baltic [CODBA2532]

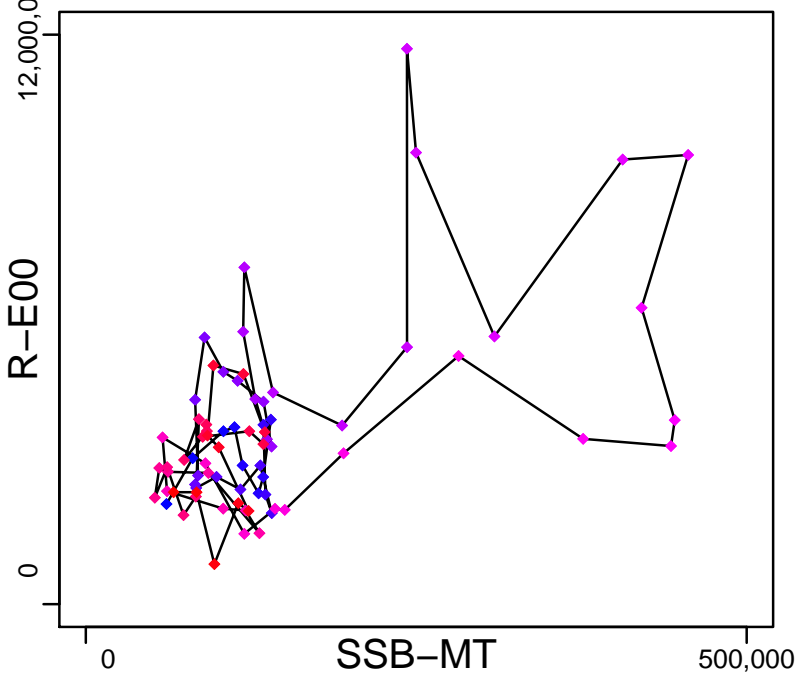
Kobe MSYpref (1946–2019–ICESIMP2021)



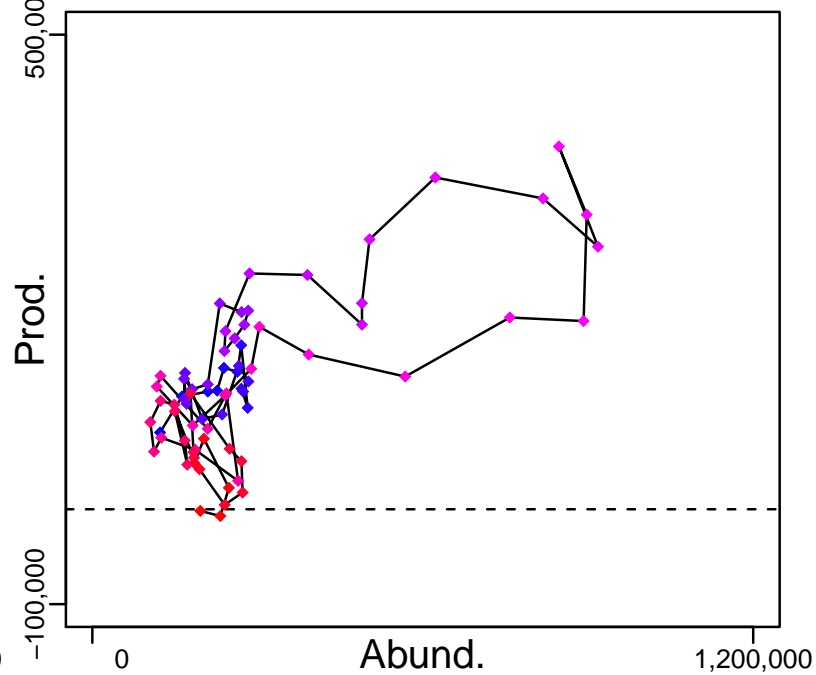
Kobe MGTpref (1946–2019–ICESIMP2021)



Spawner Recruit (1946–2019–ICESIMP2021)

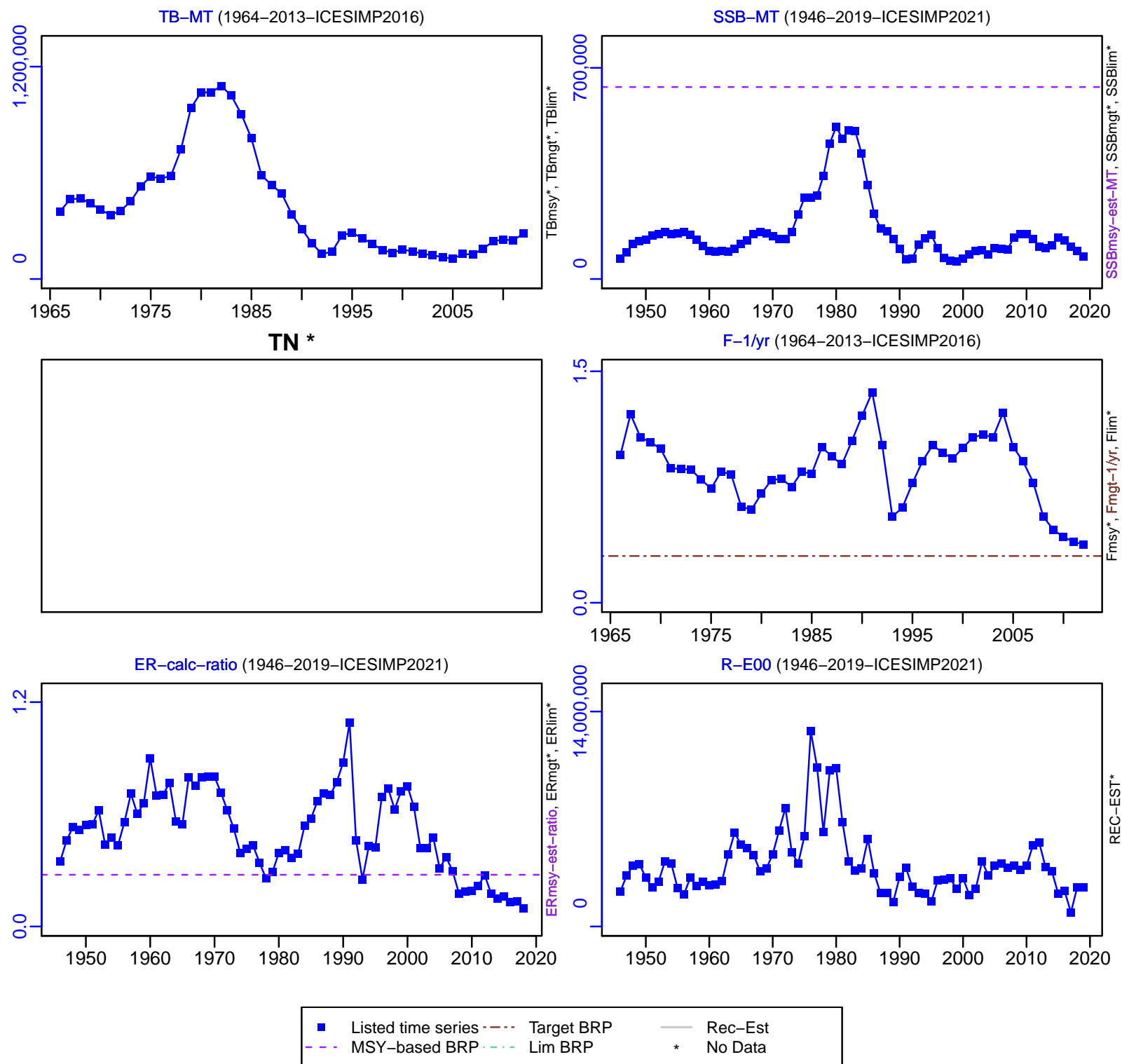


Production (1946–2019–ICESIMP2021)



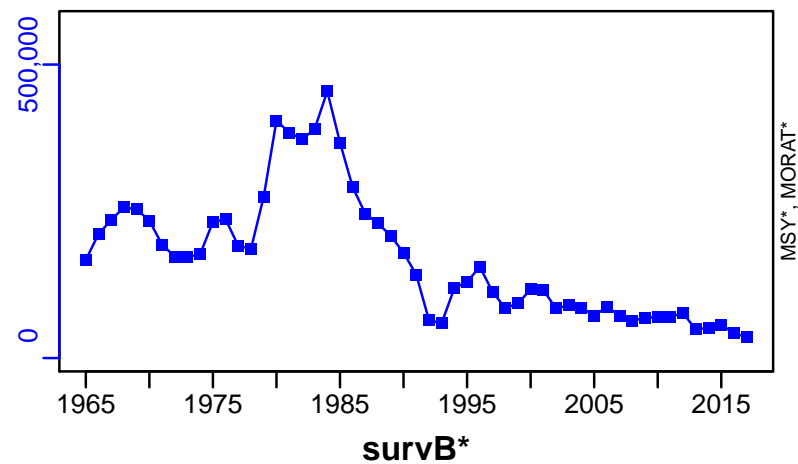
◆ Start Year ◆ End Year * No Data

Atlantic cod Eastern Baltic [CODBA2532]



Atlantic cod Eastern Baltic [CODBA2532]

TC-MT, TL*, RecC* (1965–2017–ICESIMP2018)



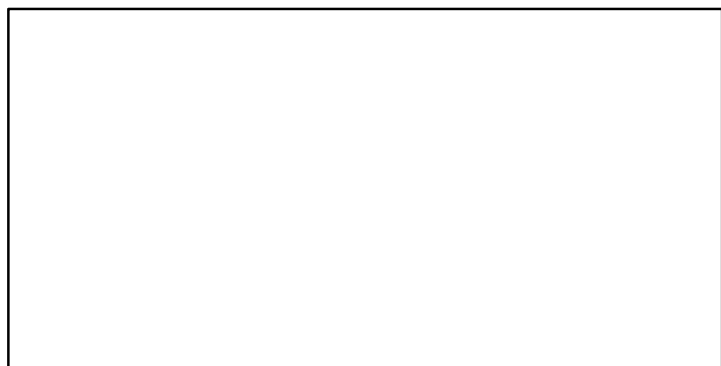
TAC*, Cpair*, Cadv*



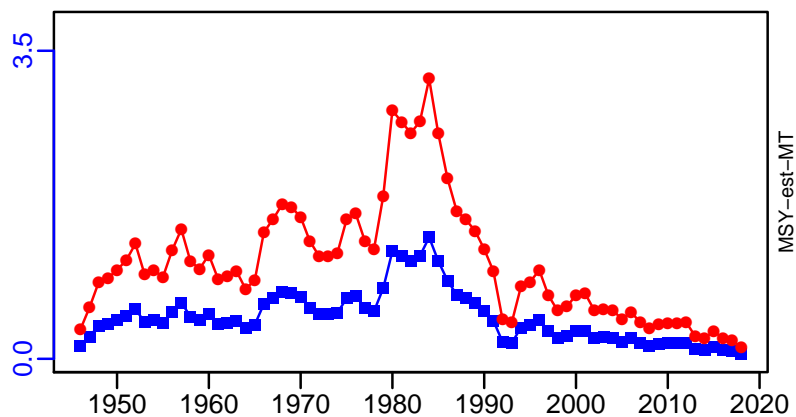
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1946–2019–ICESIMP2021)



■ 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]

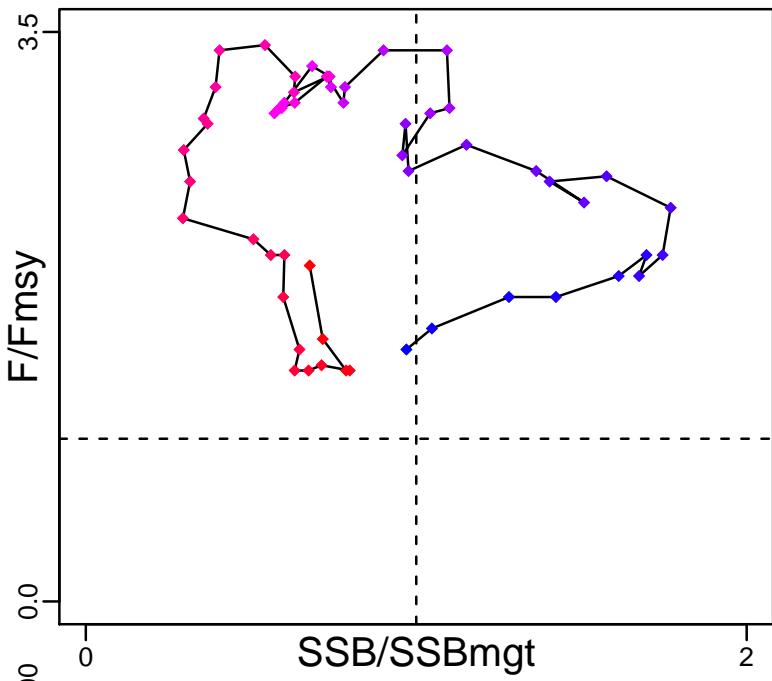
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGNSSK-CODIIIaW-IV-VIId-1962-2019-ICESIMP2021
Area	ICES 3a(west)-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	971,321
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.31
ERmsy	ERmsy-est-ratio	2019	0.396
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	150,000
Fmgt	Fmgt-1/yr	2019	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	267,310
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2018	107,000
Flim	Flim-1/yr	2018	0.54
ERlim	-	-	-

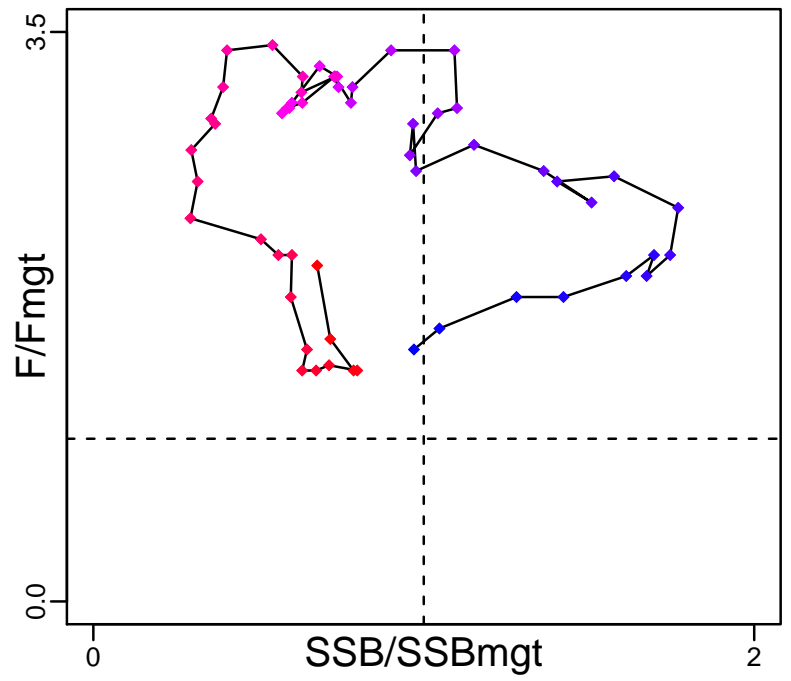
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	175,062	-	-
SSB	SSB-MT	2019	80,475	-	-
TN	-	-	-	-	-
R	R-E00	2019	181,905,000	-	1
F	F-1/yr	2019	0.64	-	2 to 4
ER	ER-calc-ratio	2019	0.289	-	-
TC	TC-MT	2019	50,573		
TL	TL-MT	2019	41,433		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.194		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.065		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.73		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.536		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.065		
ER/ERmgt	-	-	-		

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

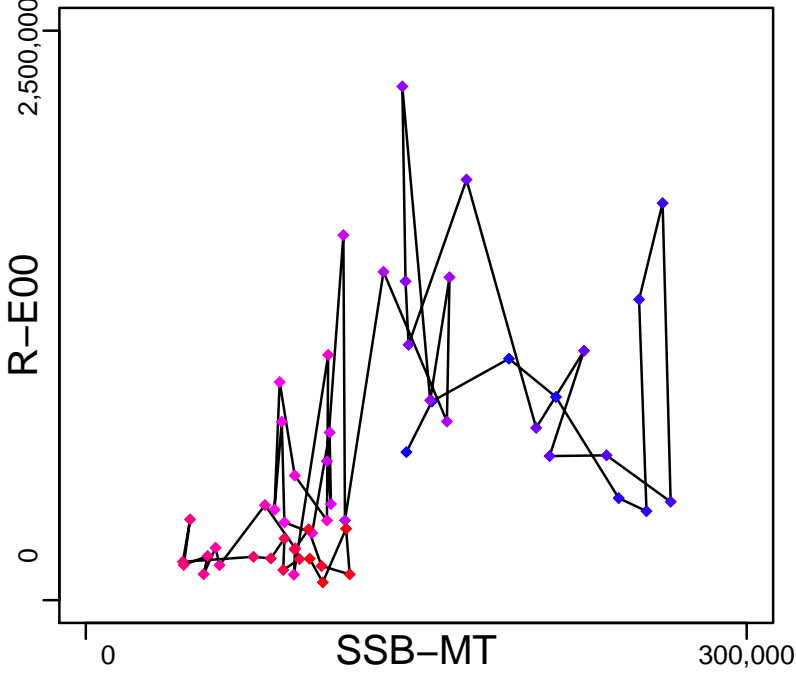
Kobe MSYpref (1962–2019–ICESIMP2021)



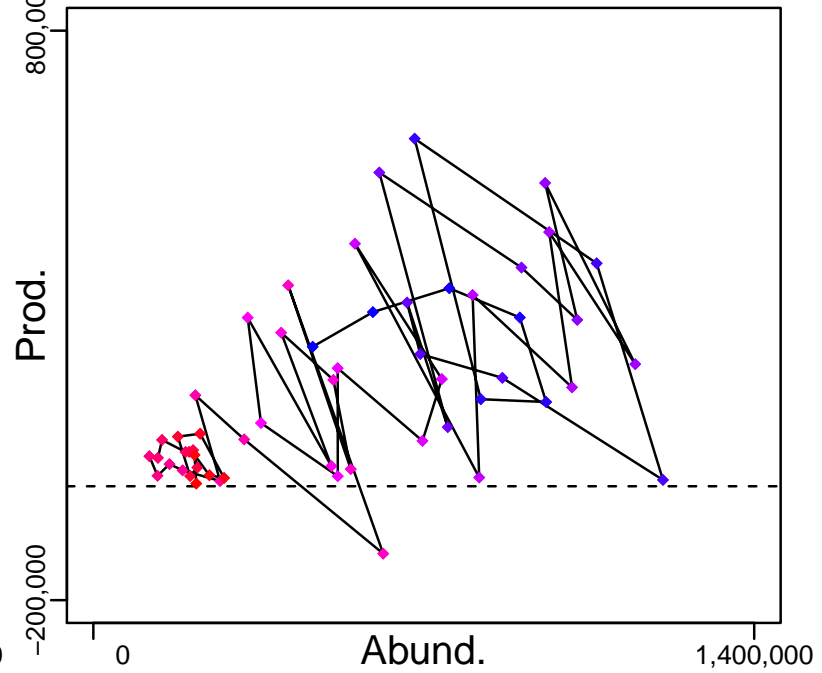
Kobe MGTpref (1962–2019–ICESIMP2021)



Spawner Recruit (1962–2019–ICESIMP2021)



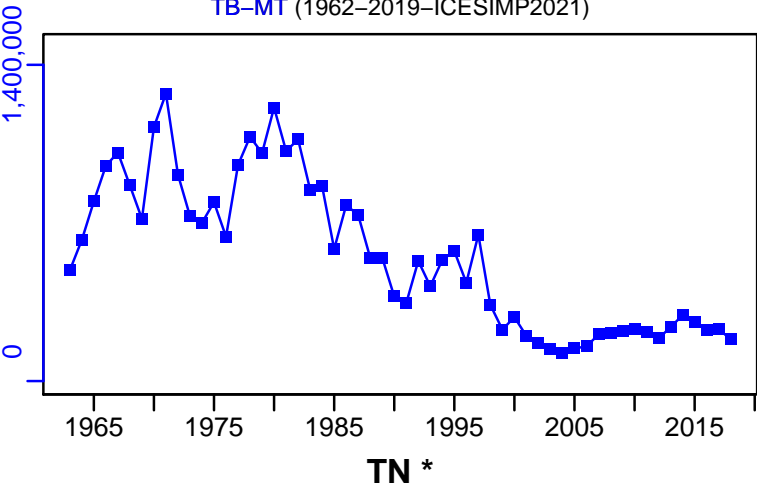
Production (1962–2019–ICESIMP2021)



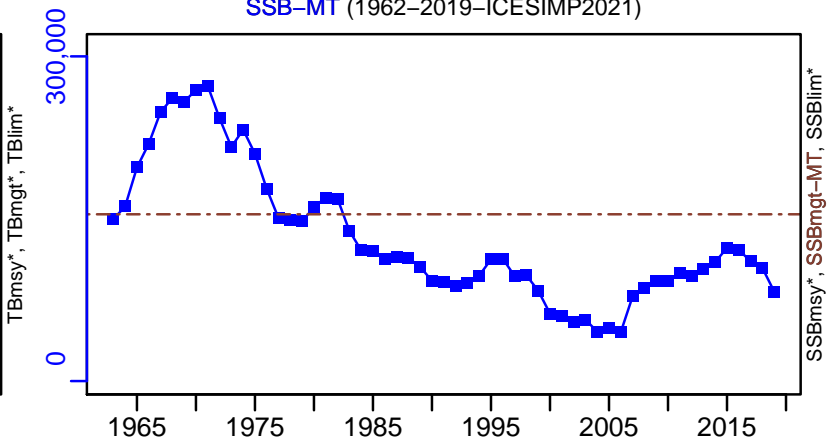
◆ Start Year ◆ End Year * No Data

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

TB-MT (1962-2019-ICESIMP2021)



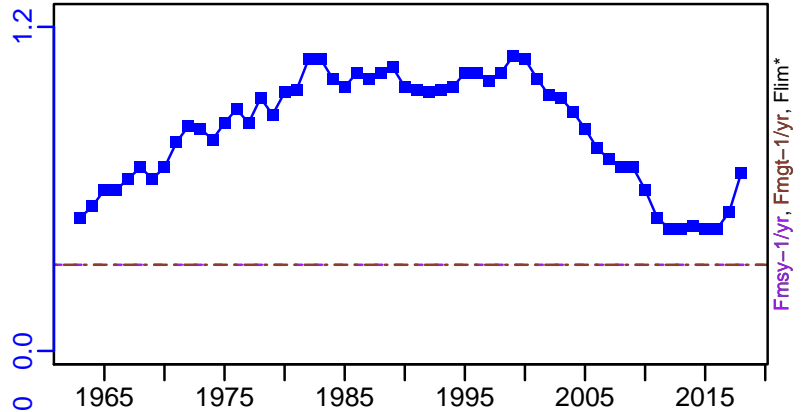
SSB-MT (1962-2019-ICESIMP2021)



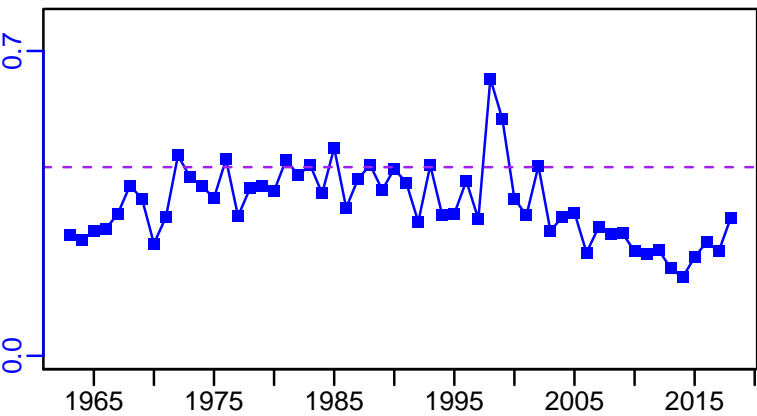
TN *



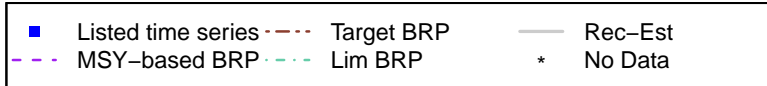
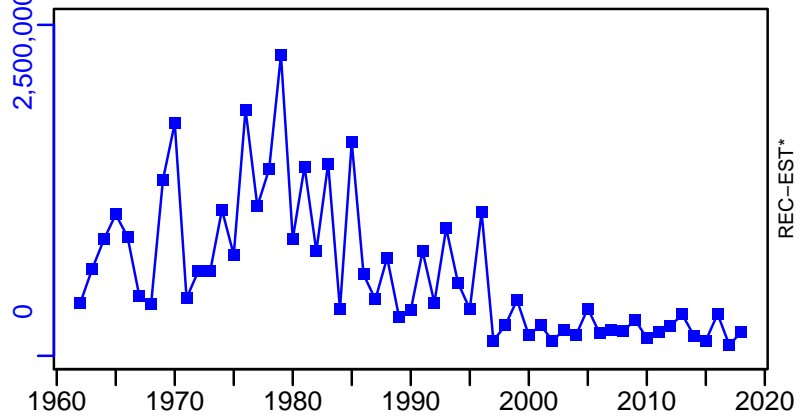
F-1/yr (1962-2019-ICESIMP2021)



ER-calc-ratio (1962-2019-ICESIMP2021)



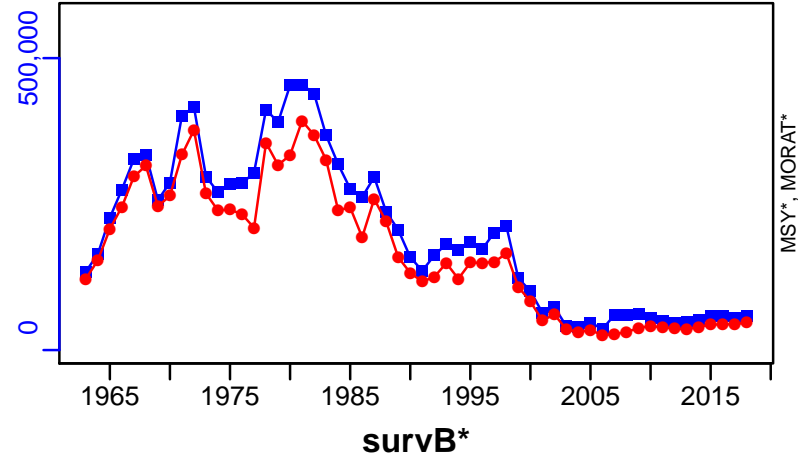
R-E00 (1962-2019-ICESIMP2021)



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

TC-MT, TL-MT, RecC* (1962-2019-ICESIMP2021)

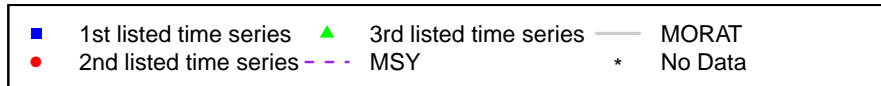
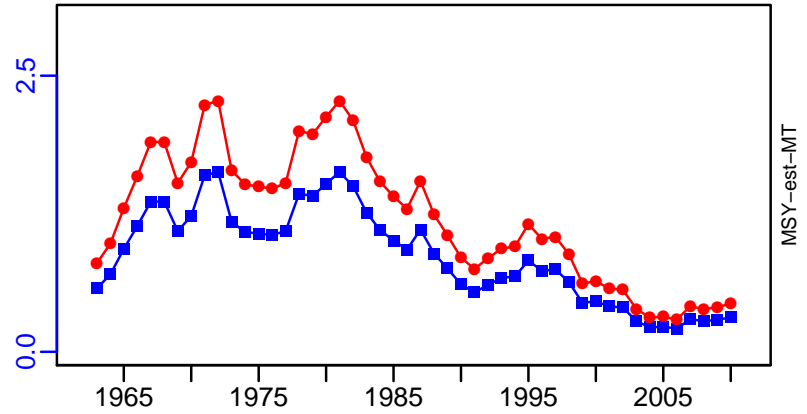
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1962-2011-NEUBAUER)



Atlantic cod Irish Sea [CODIS]

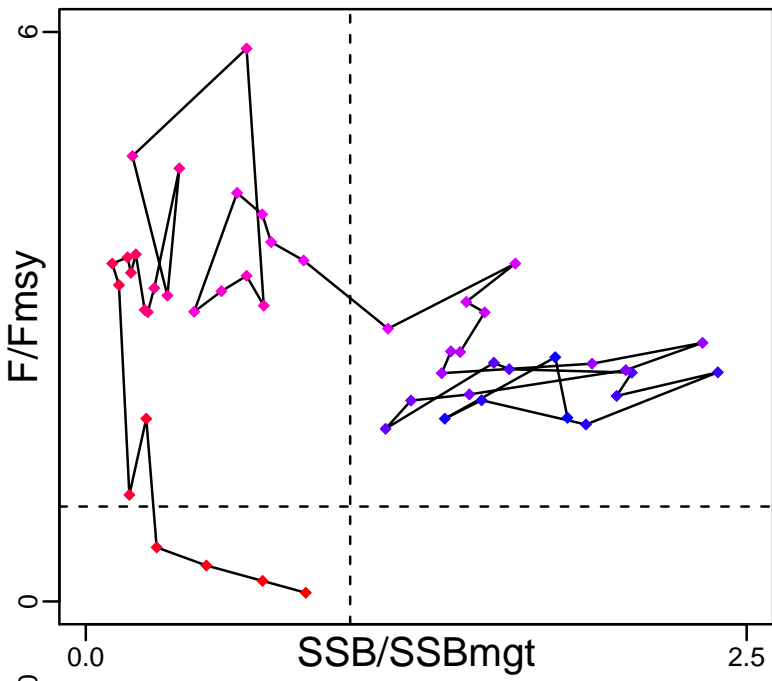
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODIS-1968-2018-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	11,929
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.309
ERmsy	ERmsy-est-ratio	2017	0.427
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	8616
Fmgt	Fmgt-1/yr	2017	0.309
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	4091
M	M-1/yr	2010	0.2
TBlim	TBlim-MT	2010	6000
SSBlim	SSBlim-MT	2017	6000
Flim	Flim-1/yr	2017	0.614
ERlim	-	-	-

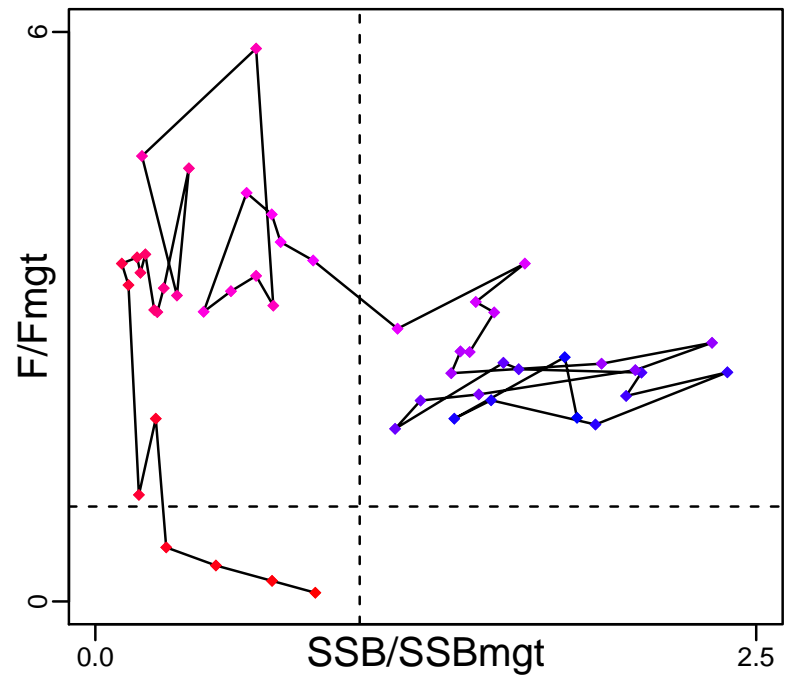
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	8650	Both	-
SSB	SSB-relative	2018	0.352	-	-
TN	-	-	-	-	-
R	R-E00	2017	5,510,000	-	0
F	F-relative	2018	0.34	-	-
ER	ER-calc-ratio	2017	0.016	-	-
TC	TC-MT	2018	257		
TL	TL-MT	2018	226		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.425		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.092		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2017	0.038		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.195		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.092		
ER/ERmgt	-	-	-		

Atlantic cod Irish Sea [CODIS]

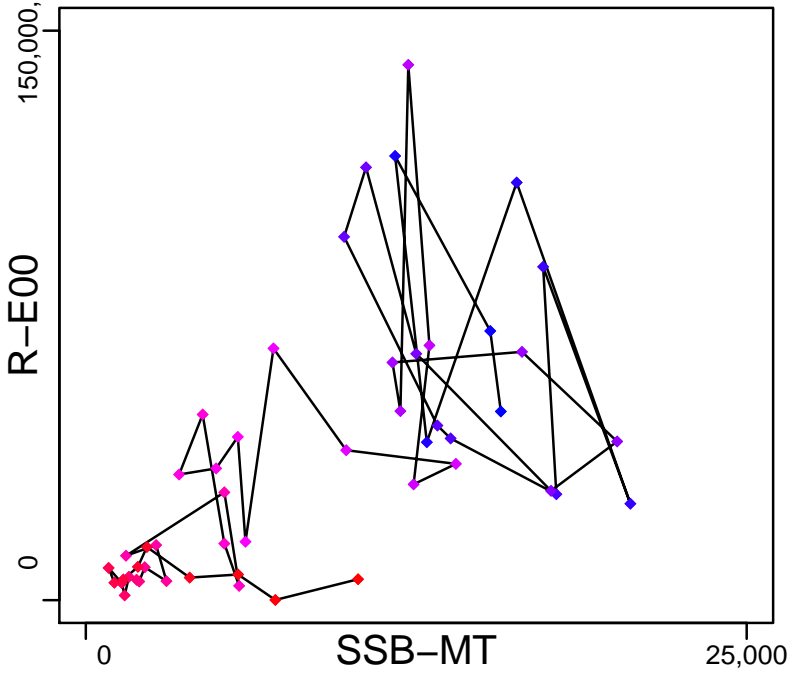
Kobe MSYpref (1968–2017–ICESIMP2018)



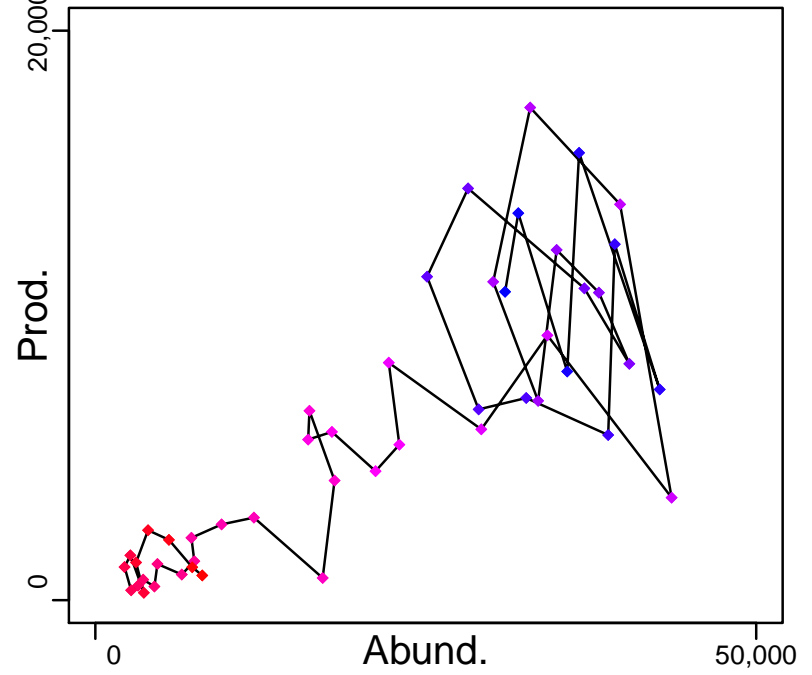
Kobe MGTpref (1968–2017–ICESIMP2018)



Spawner Recruit (1968–2017–ICESIMP2018)

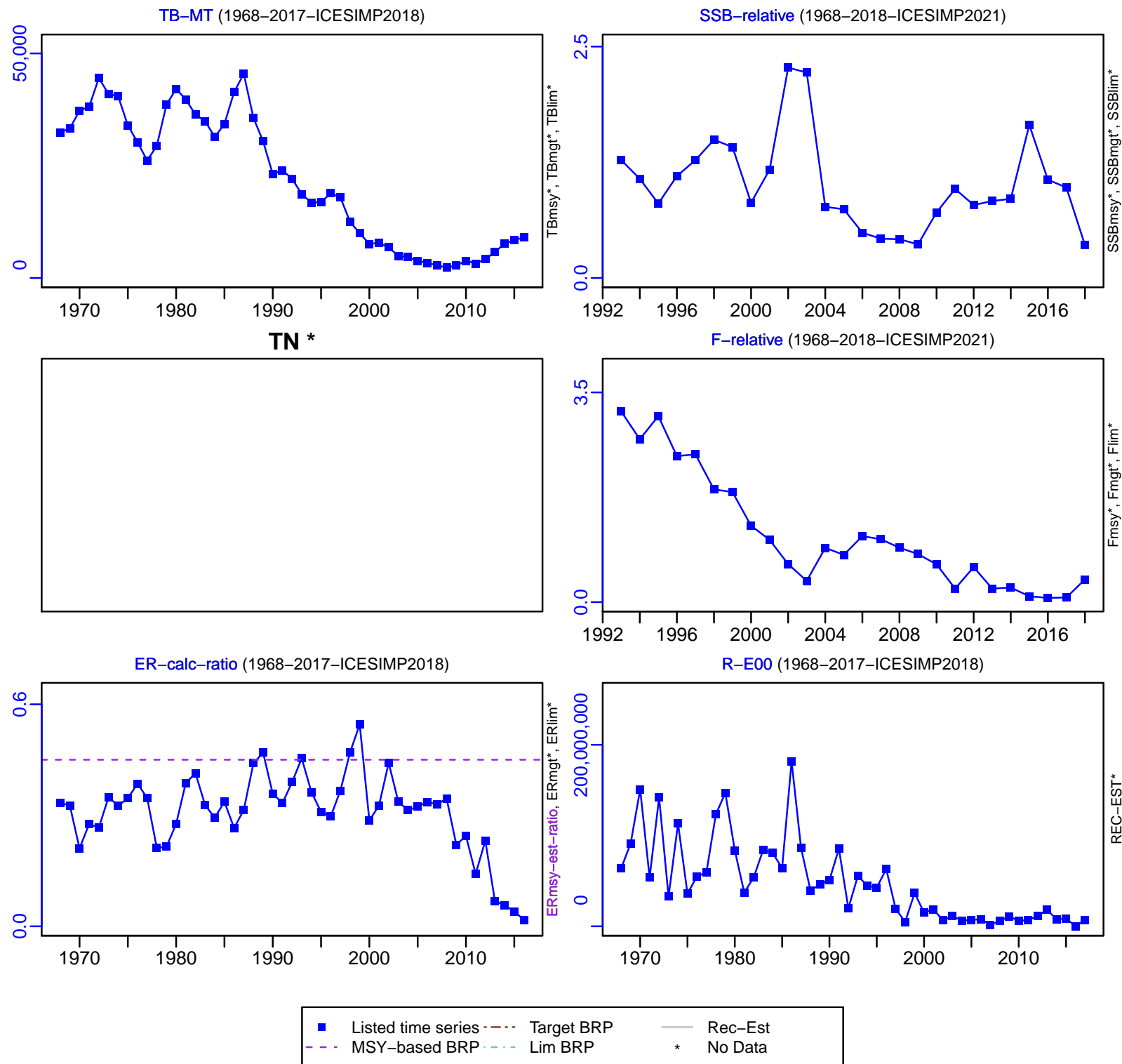


Production (1968–2017–ICESIMP2018)



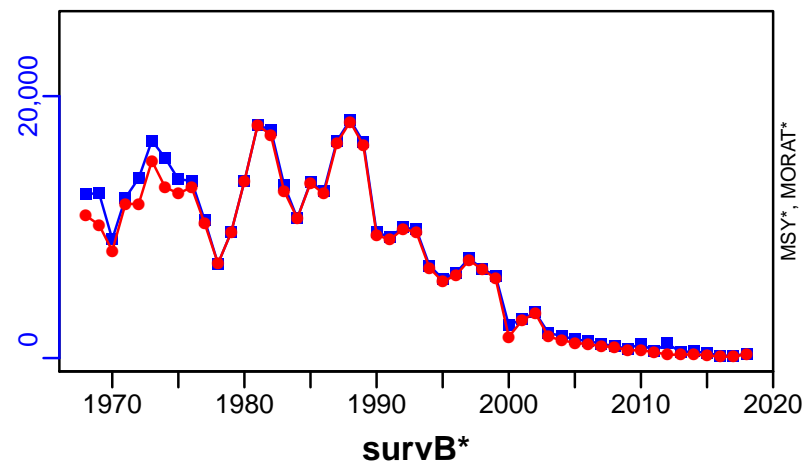
◆ Start Year ◆ End Year * No Data

Atlantic cod Irish Sea [CODIS]



Atlantic cod Irish Sea [CODIS]

TC-MT, TL-MT, RecC* (1968–2018–ICESIMP2021)



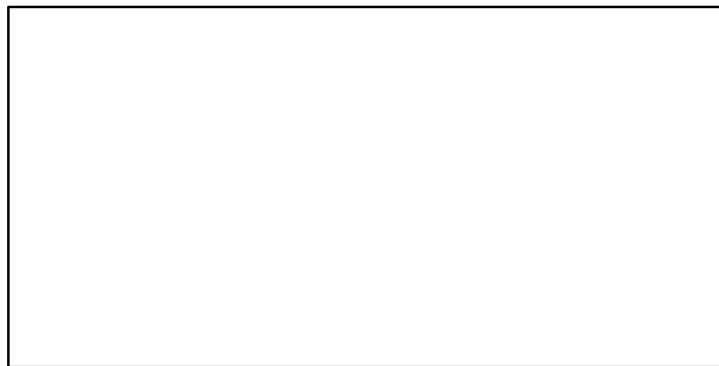
TAC*, Cpair*, Cadv*



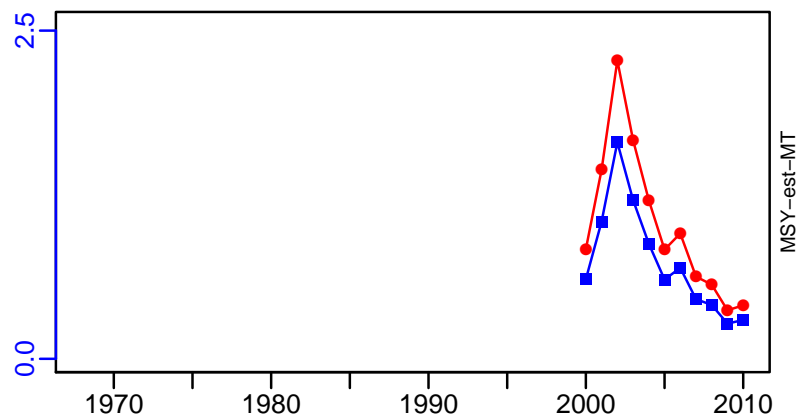
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1968–2010–NEUBAUER)



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

Atlantic cod Kattegat [CODKAT]

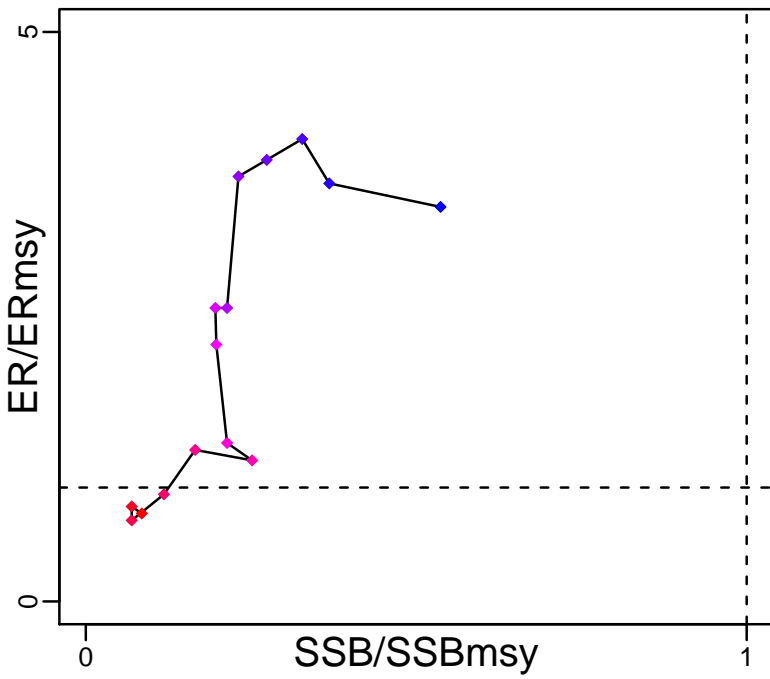
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODKAT-1996-2019-ICESIMP2021
Area	Kattegat
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2012	20,305
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2012	0.131
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	5600
M	-	-	-
TBlim	TBlim-MT	2012	6400
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

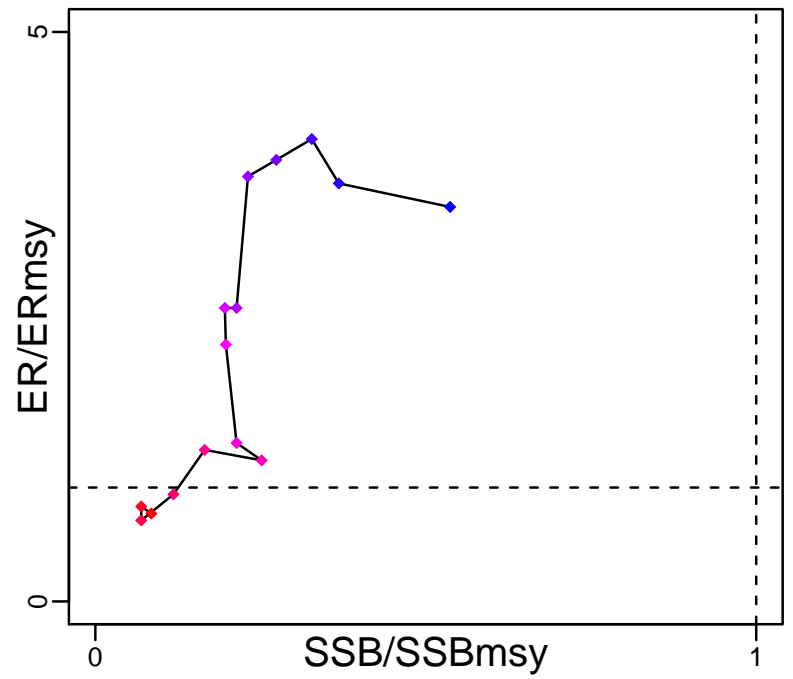
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2018	0.535	Both	-
SSB	SSB-relative	2019	0.207	-	-
TN	-	-	-	-	-
R	R-relative	2019	0.034	-	1
F	F-relative	2019	1.079	-	-
ER	ER-ratio	2012	0.101	-	-
TC	TC-MT	2019	284		
TL	TL-MT	2019	212		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2012	0.112		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2012	0.772		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Kattegat [CODKAT]

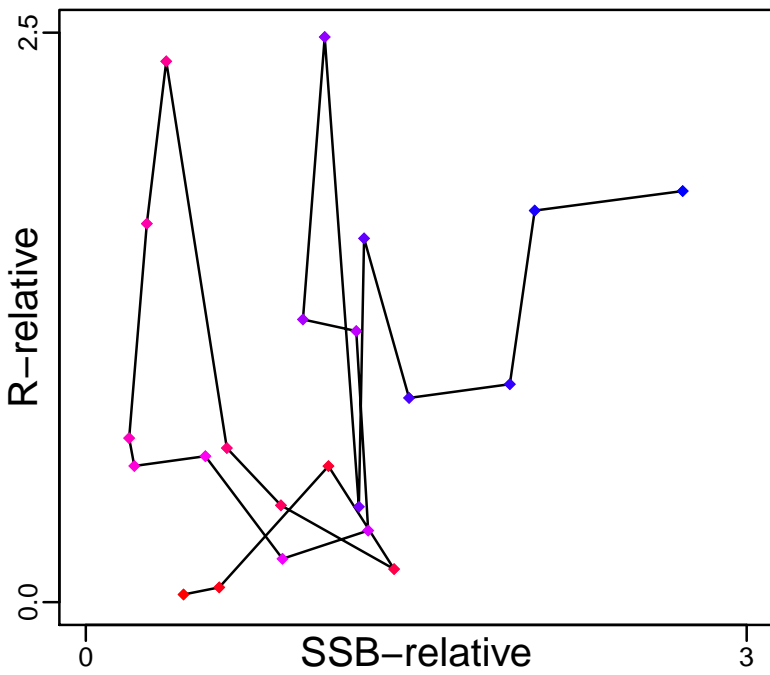
Kobe MSYpref (1971–2012–CHING)



Kobe MGTpref (1971–2012–CHING)



Spawner Recruit (1996–2019–ICESIMP2021)



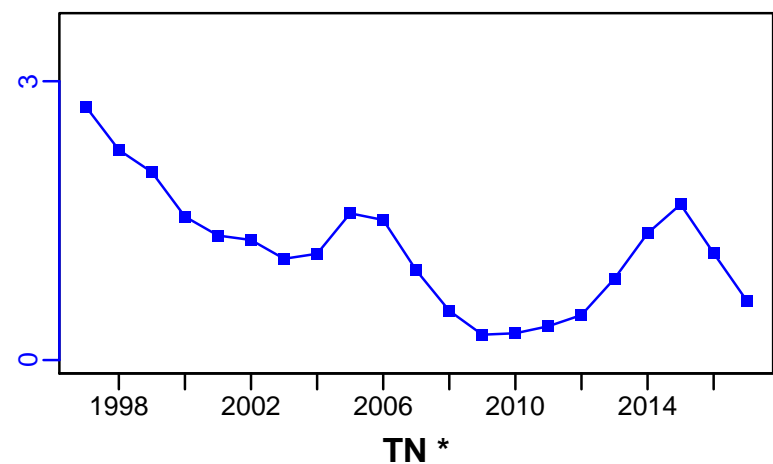
Production*



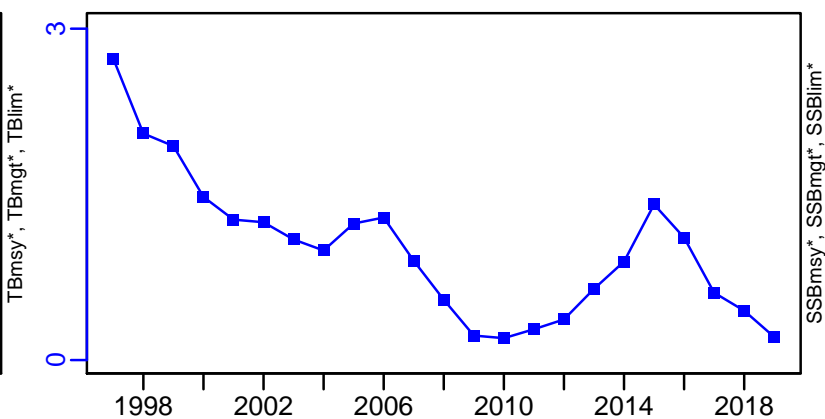
◆ Start Year ◆ End Year * No Data

Atlantic cod Kattegat [CODKAT]

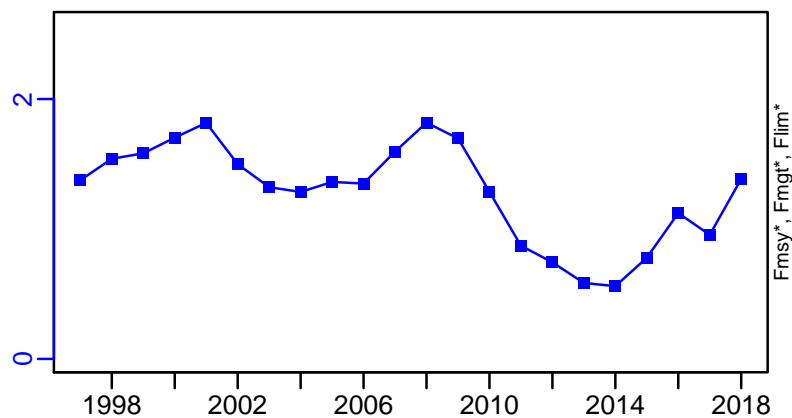
TB-relative (1996–2018–ICESIMP2018)



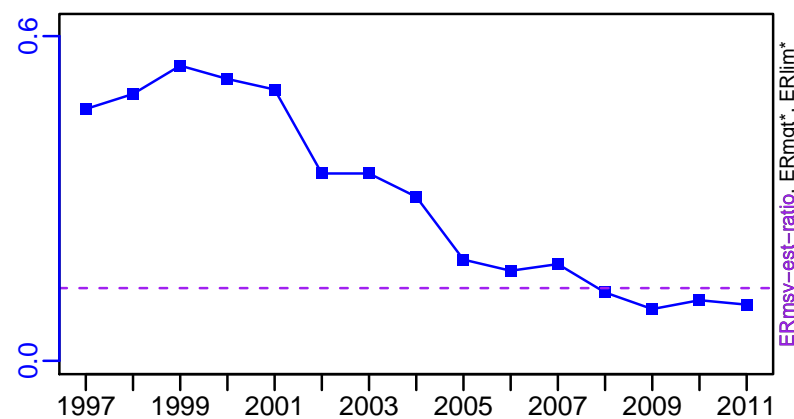
SSB-relative (1996–2019–ICESIMP2021)



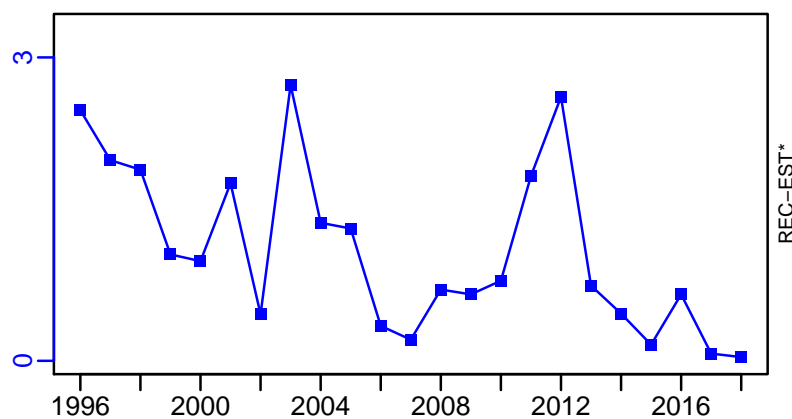
F-relative (1996–2019–ICESIMP2021)



ER-ratio (1971–2012–CHING)



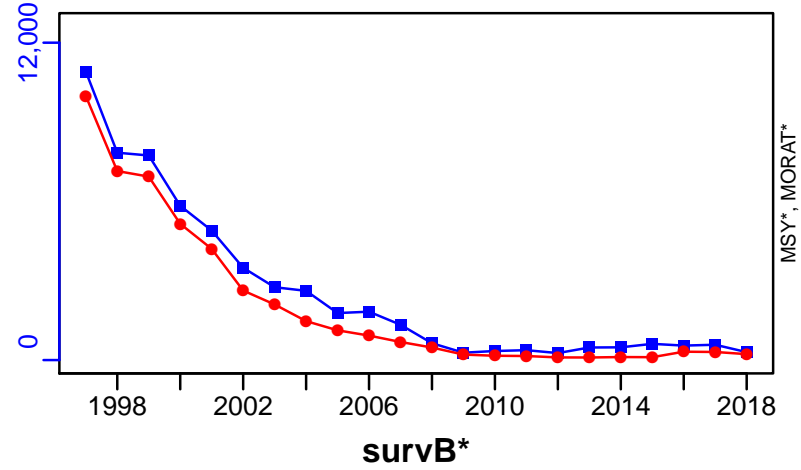
R-relative (1996–2019–ICESIMP2021)



Atlantic cod Kattegat [CODKAT]

TC-MT, TL-MT, RecC* (1996–2019–ICESIMP2021)

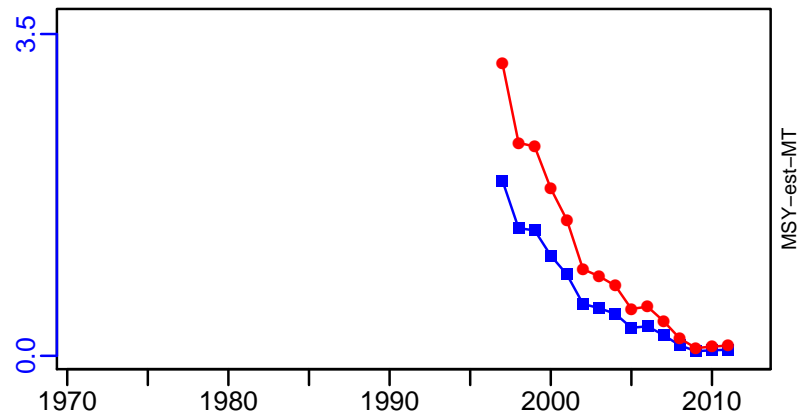
TAC*, Cpair*, Cadv*



EFFORT*



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



Atlantic cod West of Scotland [CODVIa]

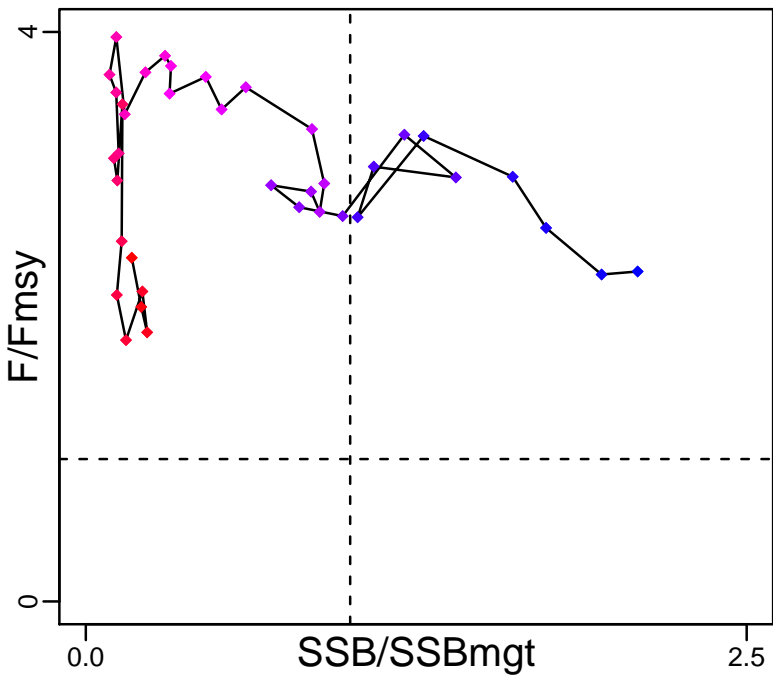
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVIa-1980-2019-ICESIMP2021
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2017, 2019, 2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2012	22,000
Fmsy	Fmsy-1/yr	2019	0.29
ERmsy	ERmsy-est-ratio	2019	0.209
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	20,000
Fmgt	Fmgt-1/yr	2019	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	11,113
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	14,000
Flim	Flim-1/yr	2017	0.82
ERlim	-	-	-

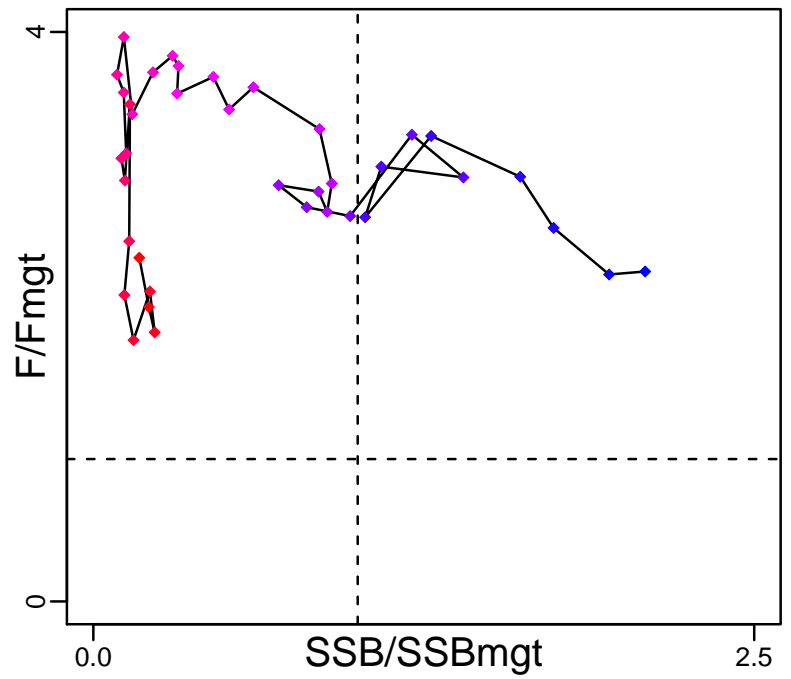
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	4250	Both	-
SSB	SSB-MT	2019	2357	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,348,806	-	1
F	F-1/yr	2019	0.7	-	2 to 5
ER	ER-calc-ratio	2019	0.259	-	-
TC	TC-MT	2019	1890		
TL	TL-MT	2019	1129		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2012	0.169		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.414		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.243		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.118		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.414		
ER/ERmgt	-	-	-		

Atlantic cod West of Scotland [CODVla]

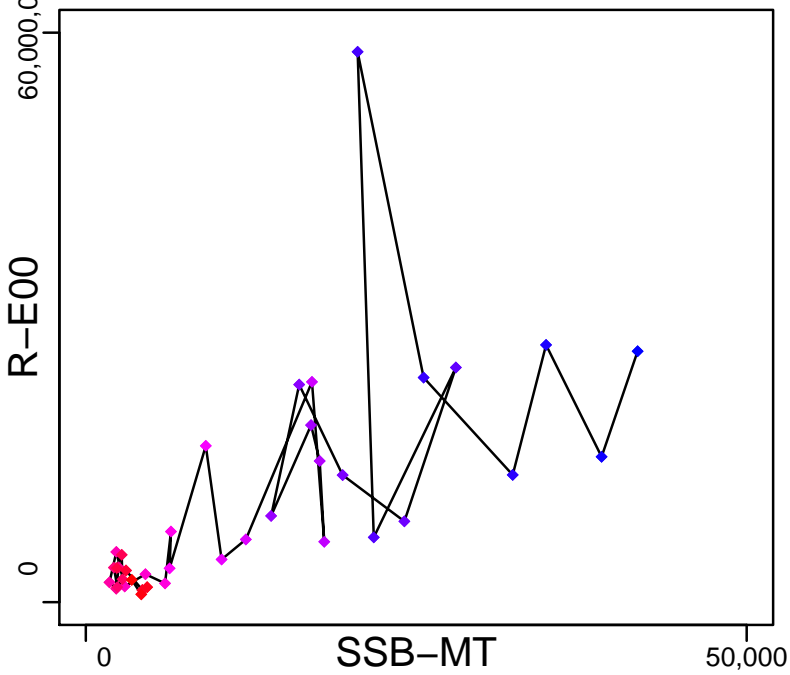
Kobe MSYpref (1980–2019–ICESIMP2021)



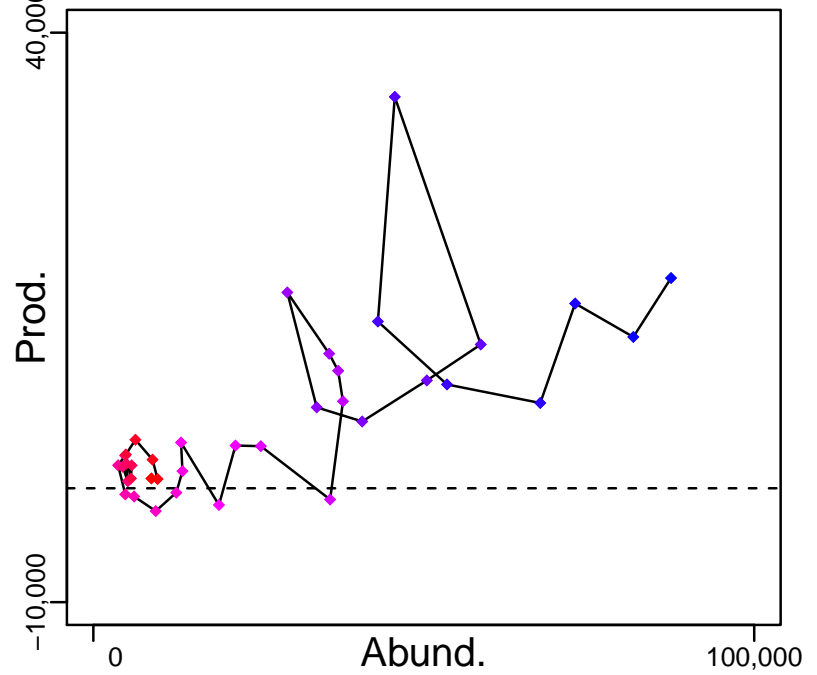
Kobe MGTpref (1980–2019–ICESIMP2021)



Spawner Recruit (1980–2019–ICESIMP2021)



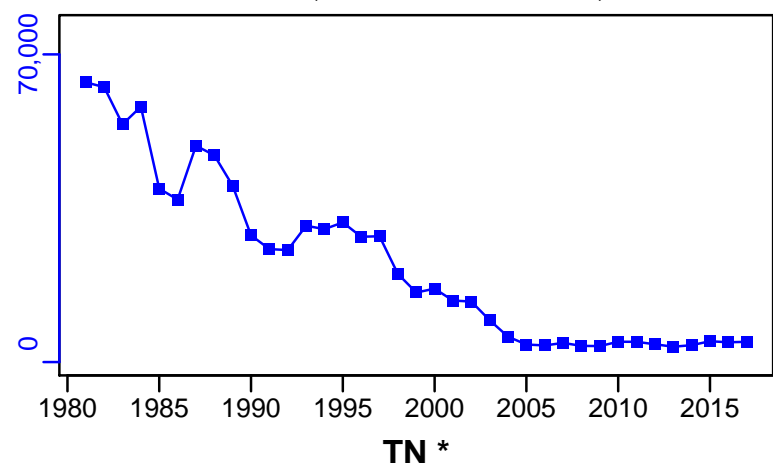
Production (1980–2019–ICESIMP2021)



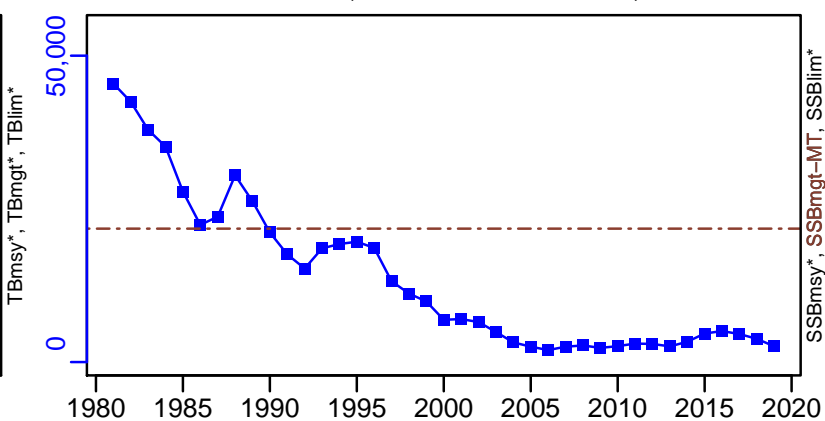
◆ Start Year ◆ End Year * No Data

Atlantic cod West of Scotland [CODVla]

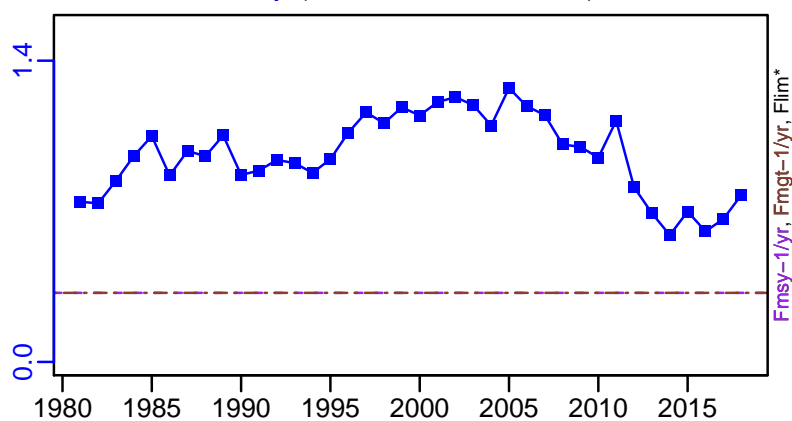
TB-MT (1980–2017–ICESIMP2018)



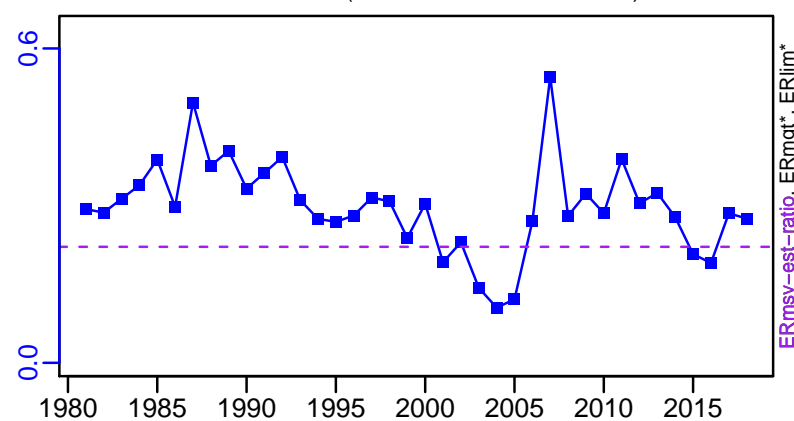
SSB-MT (1980–2019–ICESIMP2021)



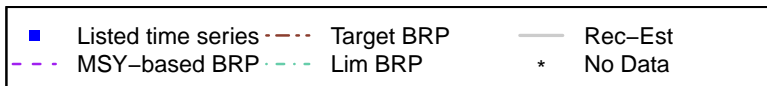
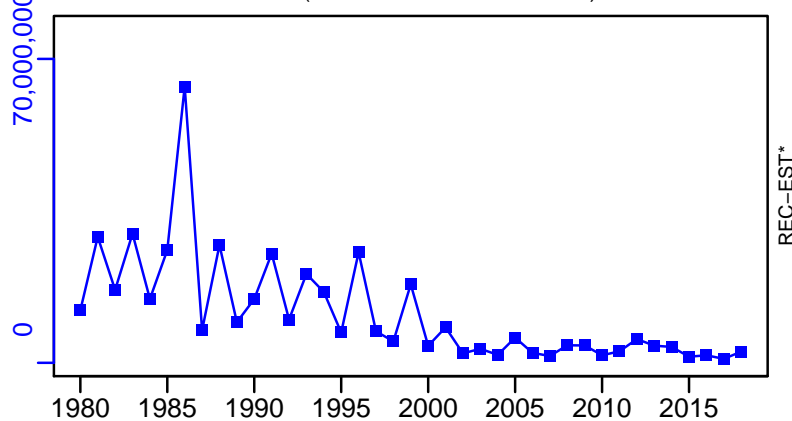
F-1/yr (1980–2019–ICESIMP2021)



ER-calc-ratio (1980–2019–ICESIMP2021)



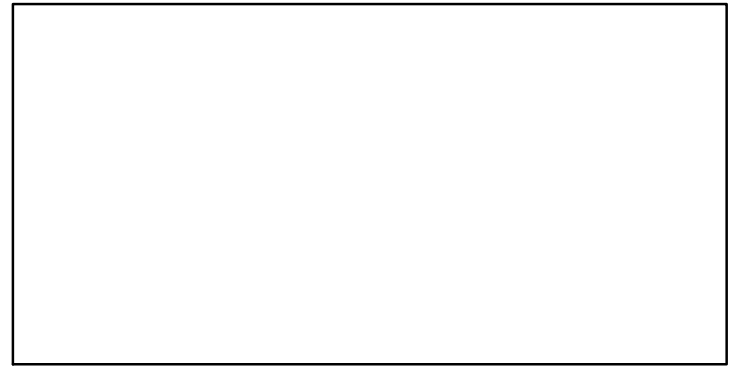
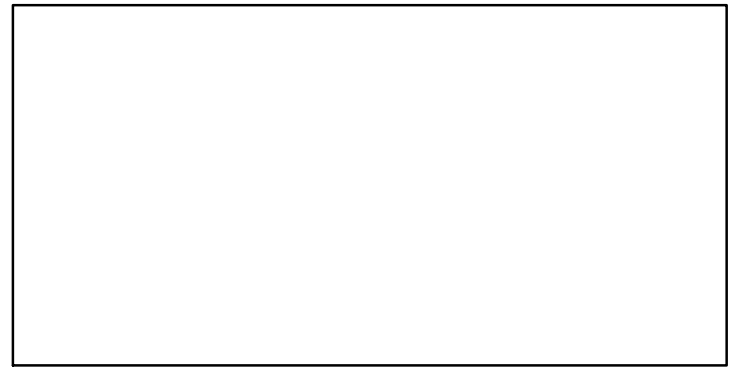
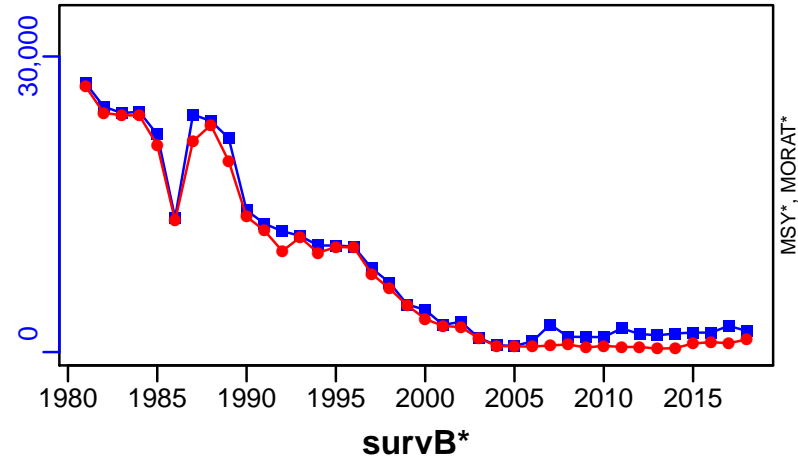
R-E00 (1980–2019–ICESIMP2021)



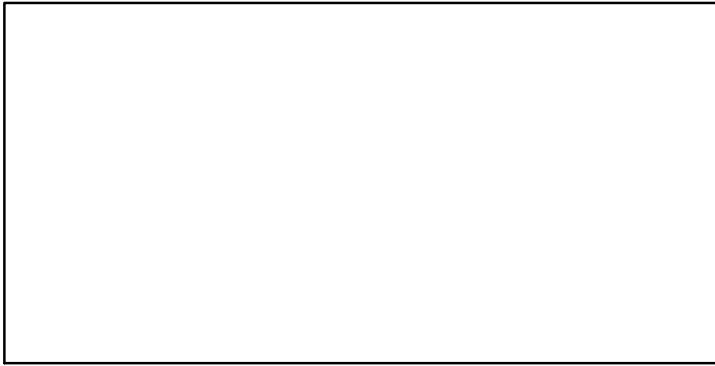
Atlantic cod West of Scotland [CODVla]

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

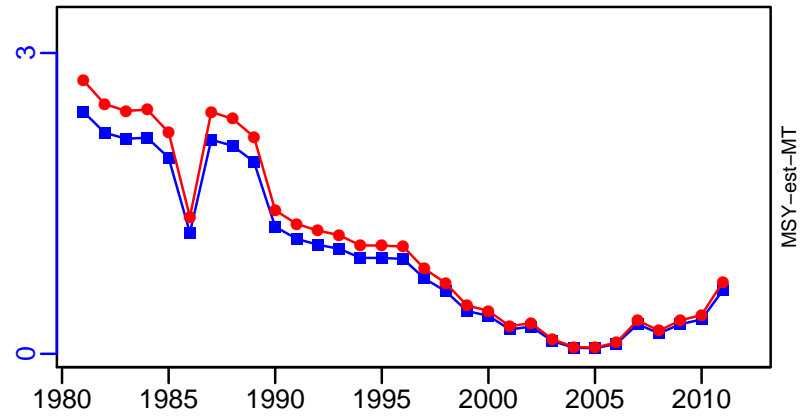
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1981-2012-CHING)



Atlantic cod Rockall Bank [CODVlb]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVlb-1984-2016-ICESIMP2018
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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	62		
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 [CODV1b]

TB*



SSB*



TN *



F*



ER*

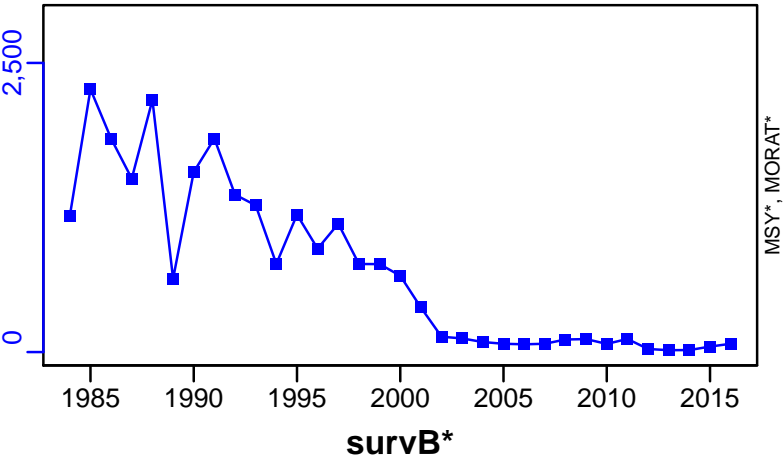


Recruits*



Atlantic cod Rockall Bank [CODVlb]

TL-MT, TC*, RecC* (1984–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Atlantic cod Celtic Sea [CODVilek]

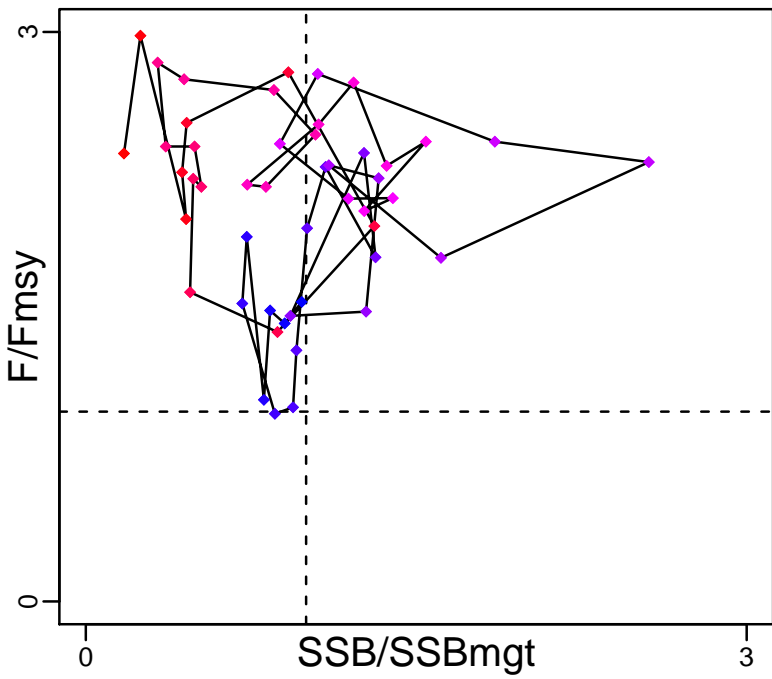
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVilek-1970-2019-ICESIMP2021
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	46,613
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.353
ERmsy	ERmsy-est-ratio	2019	0.343
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	10,300
Fmgt	Fmgt-1/yr	2019	0.353
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	10,300
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	7300
Flim	Flim-1/yr	2017	0.807
ERlim	-	-	-

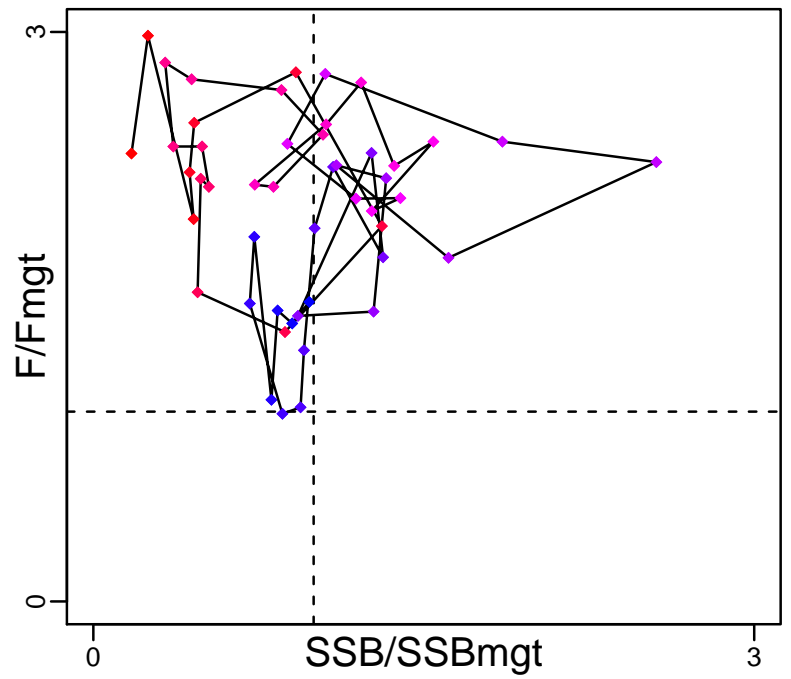
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2678	-	-
SSB	SSB-MT	2019	1290	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,166,000	-	1
F	F-1/yr	2019	0.833	-	2 to 5
ER	ER-calc-ratio	2019	0.584	-	-
TC	TC-MT	2019	1565		
TL	TL-MT	2019	1385		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	0.502		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.36		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.703		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.125		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.36		
ER/ERmgt	-	-	-		

Atlantic cod Celtic Sea [CODVilek]

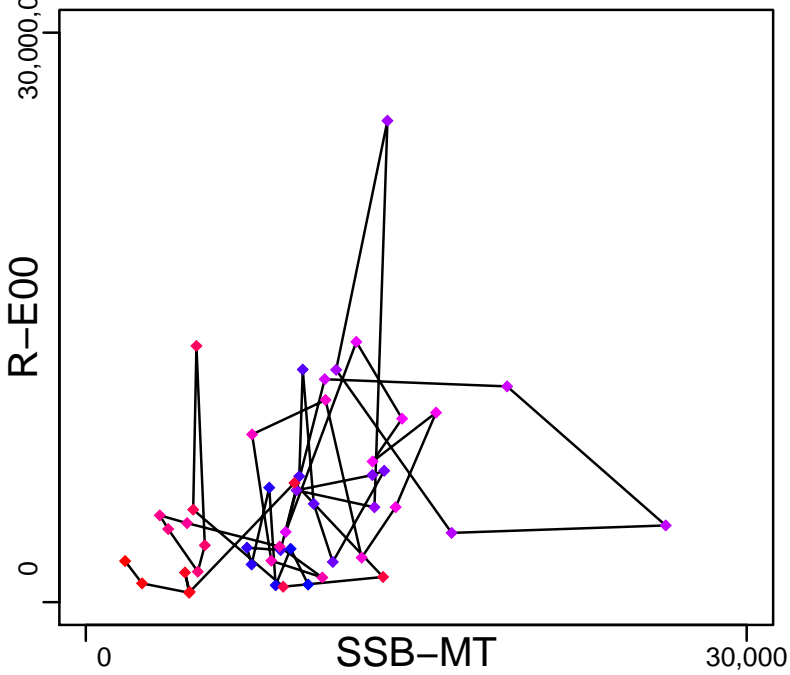
Kobe MSYpref (1970–2019–ICESIMP2021)



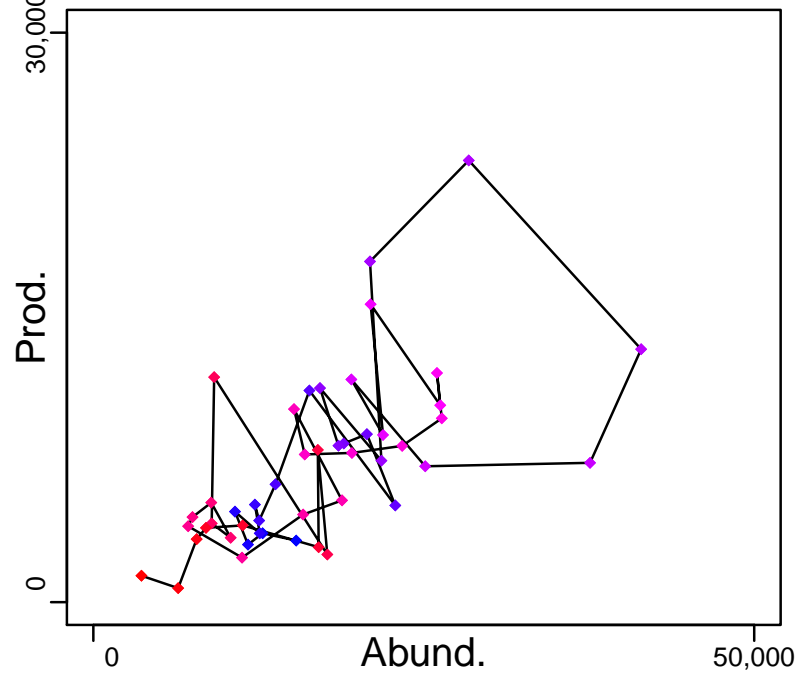
Kobe MGTpref (1970–2019–ICESIMP2021)



Spawner Recruit (1970–2019–ICESIMP2021)



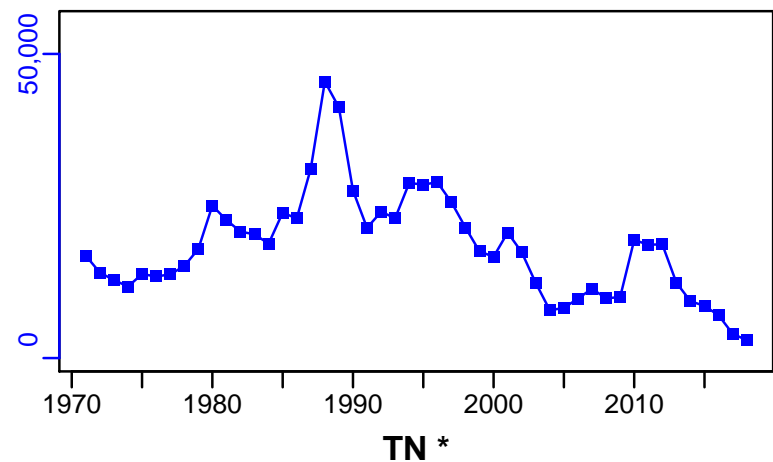
Production (1970–2019–ICESIMP2021)



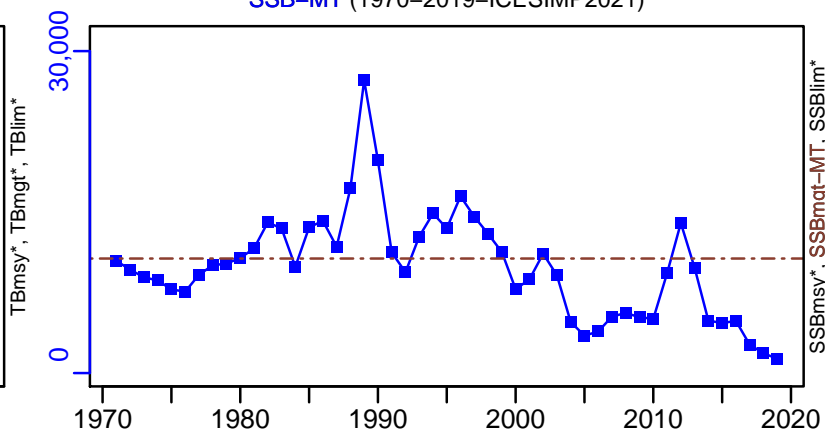
◆ Start Year ◆ End Year * No Data

Atlantic cod Celtic Sea [CODVilek]

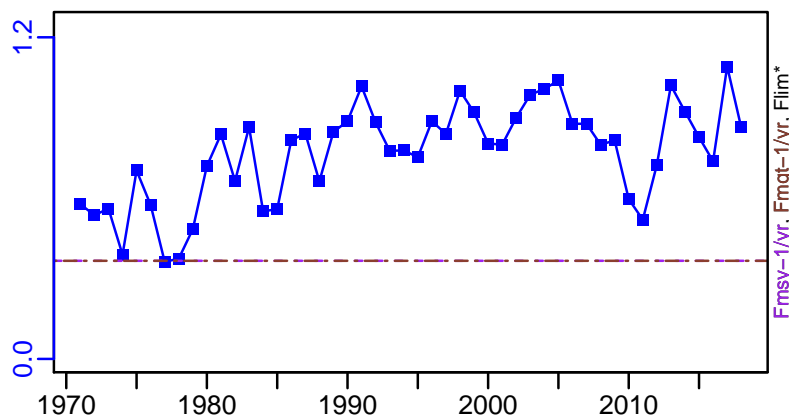
TB-MT (1970–2019–ICESIMP2021)



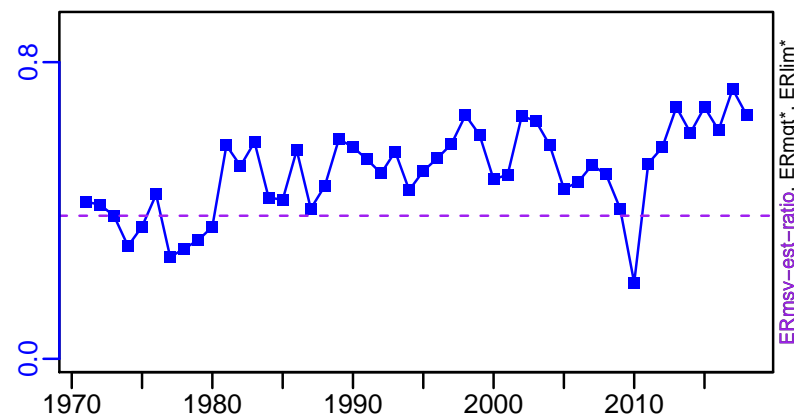
SSB-MT (1970–2019–ICESIMP2021)



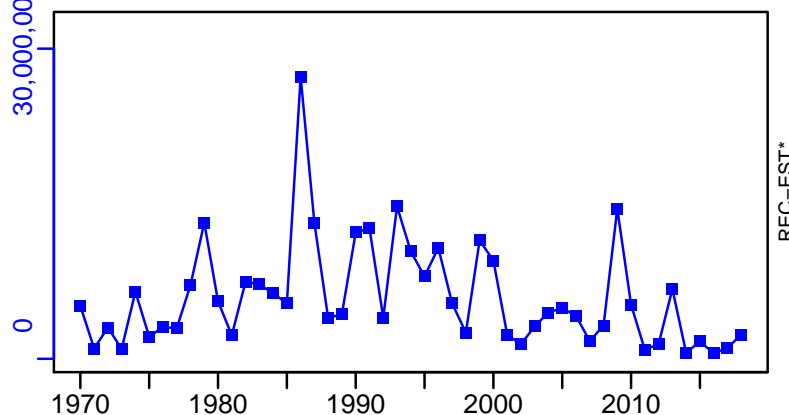
F-1/yr (1970–2019–ICESIMP2021)



ER-calc-ratio (1970–2019–ICESIMP2021)



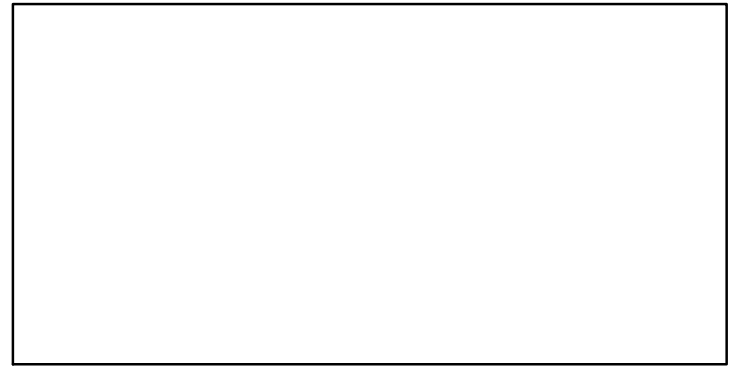
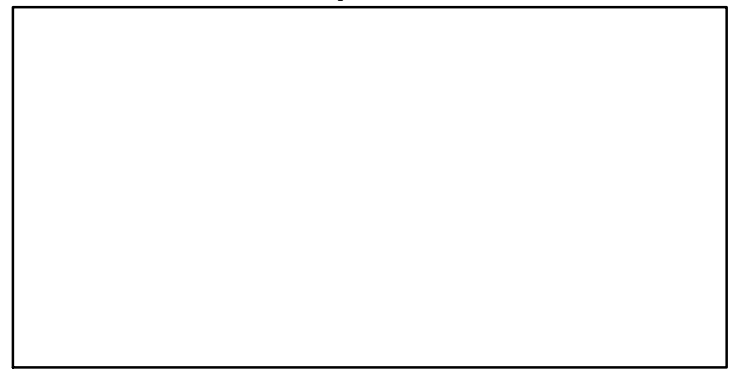
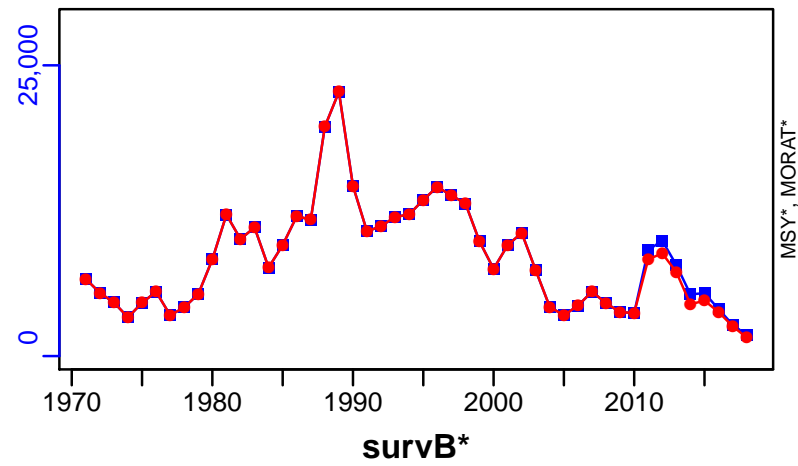
R-E00 (1970–2019–ICESIMP2021)



Atlantic cod Celtic Sea [CODVilek]

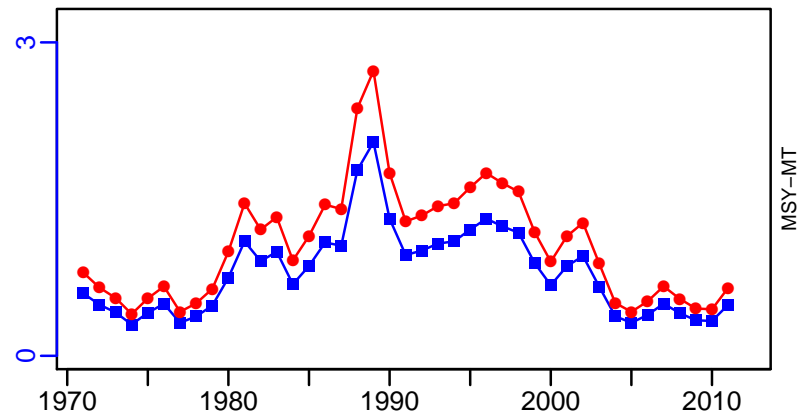
TC-MT, TL-MT, RecC* (1970–2019–ICESIMP2021)

TAC*, Cpair*, Cadv*



EFFORT*

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



Tusk Northeast Atlantic [CUSKNEATL]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKNEATL-1988-2018-ICESIMP2021
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

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	2018	4411		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



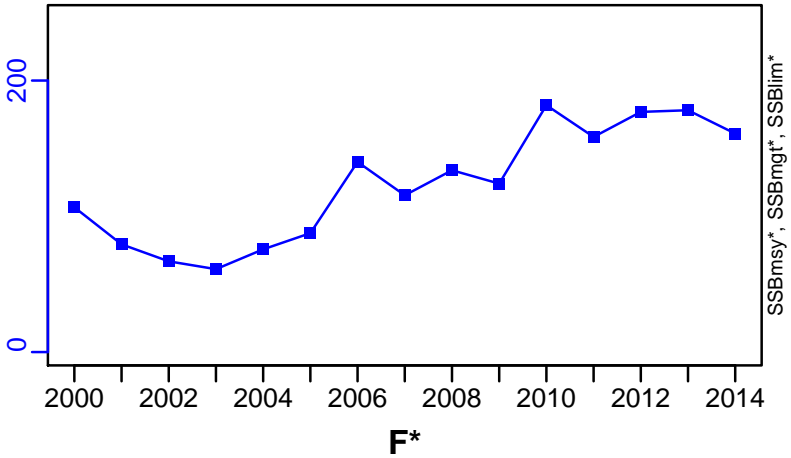
◆ Start Year ◆ End Year * No Data

Tusk Northeast Atlantic [CUSKNEATL]

TB*



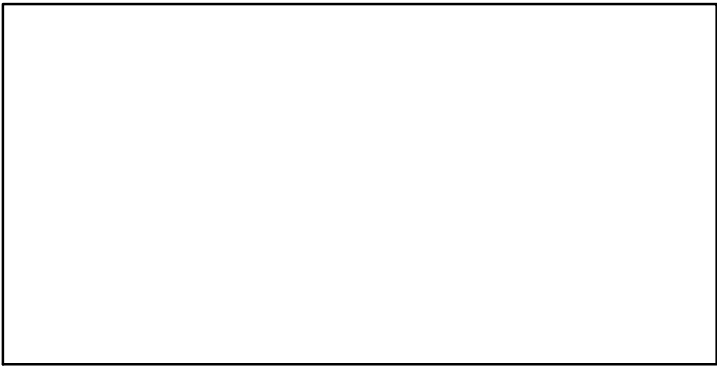
SSB-index (1988–2014–ICESIMP2018)



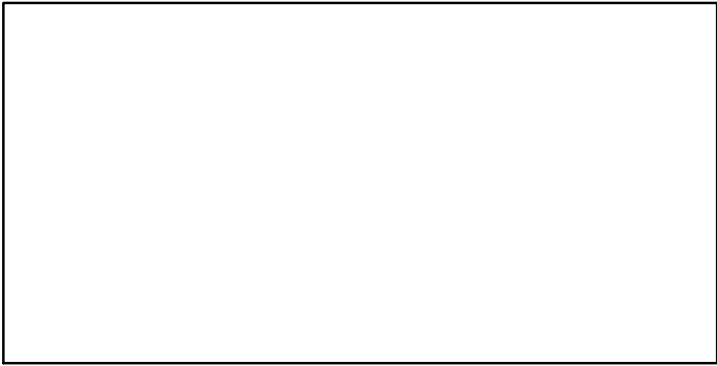
TN *



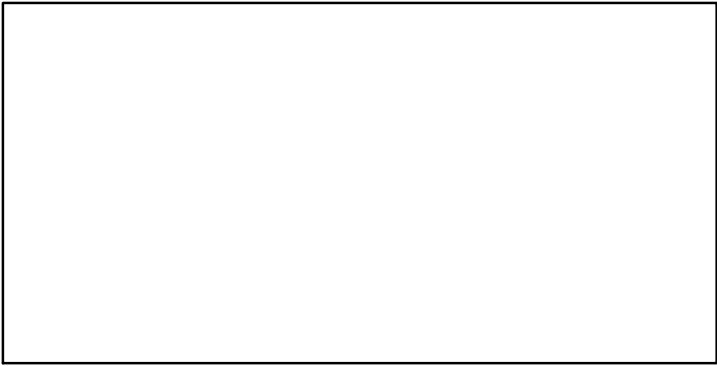
F*



ER*

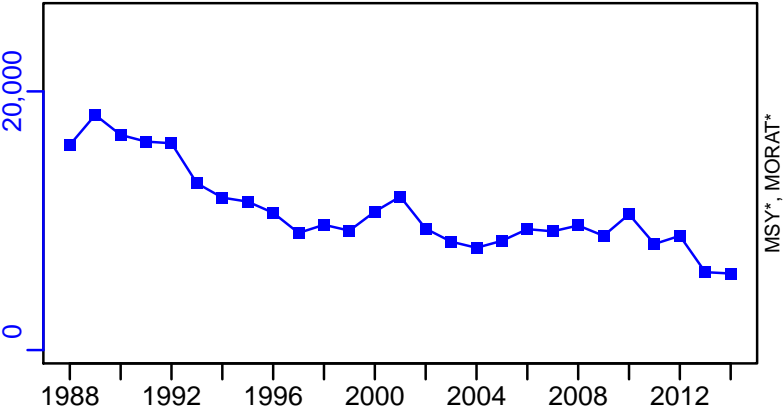


Recruits*

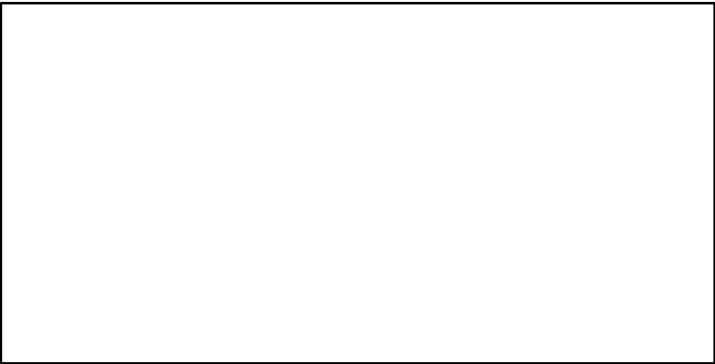


Tusk Northeast Atlantic [CUSKNEATL]

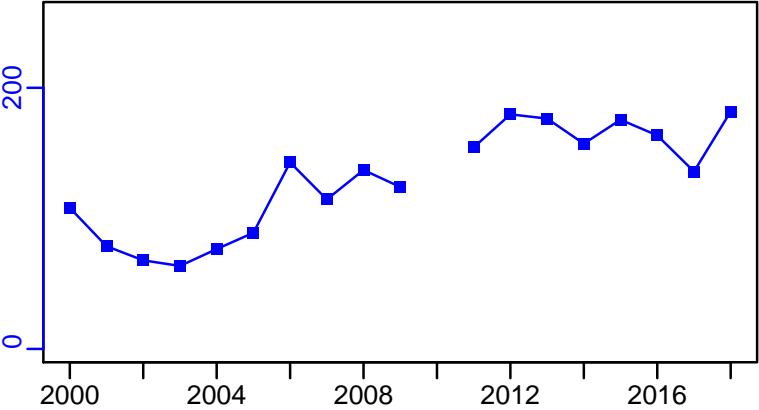
TC-MT, TL*, RecC* (1988-2014-ICESIMP2018)



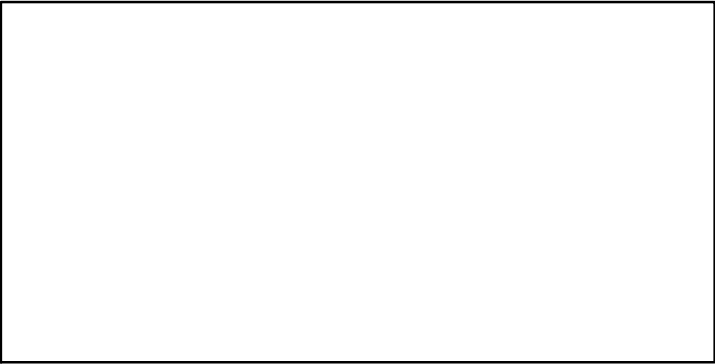
TAC*, Cpair*, Cadv*



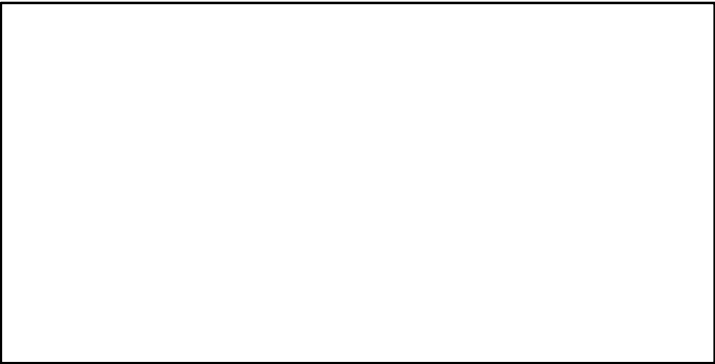
survB-MT (1988-2018-ICESIMP2021)



CPUE*



CdivMSY*



Tusk ICES 5a-14 [CUSKVa-XIV]

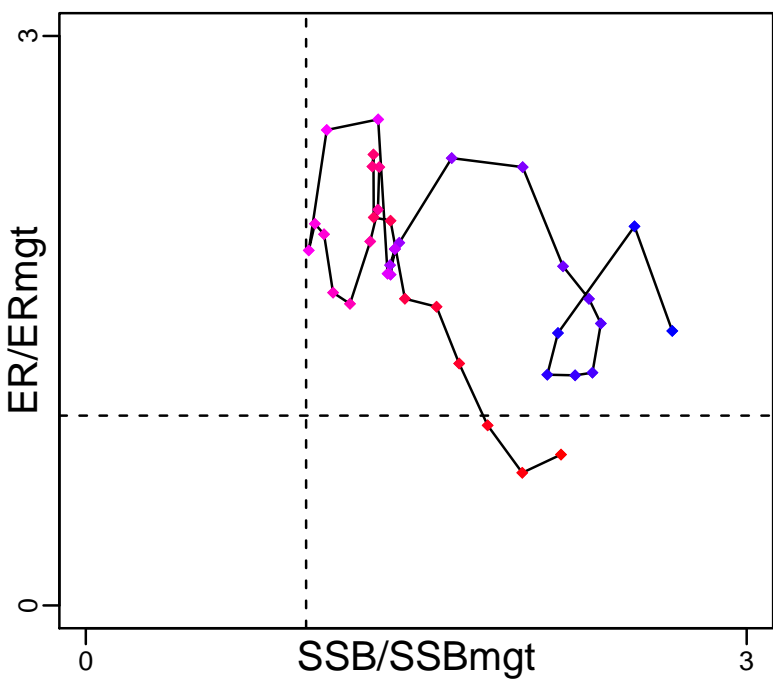
Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVa-XIV-1973-2019-ICESIMP2021
Area	ICES 5a-14
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2019, 2014, 2017, 2018, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	60,151
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.2
ERmsy	ERmsy-est-ratio	2016	0.14
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6240
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	ERmgt-ratio	2019	0.13
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	8434
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4460
Flim	-	-	-
ERlim	-	-	-

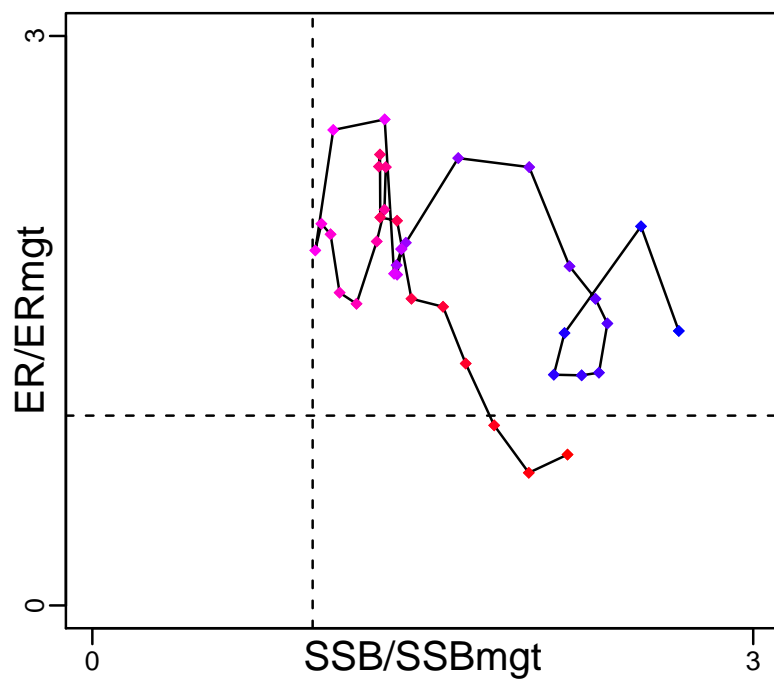
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	37,093	-	-
SSB	SSB-MT	2019	14,143	-	-
TN	-	-	-	-	-
R	R-E00	2019	18,433,788	-	3
F	F-1/yr	2016	0.22	-	-
ER	ER-ratio	2019	0.103	-	-
TC	TC-MT	2017	3490		
TL	TL-MT	2019	3621		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.372		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.1		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.535		
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]

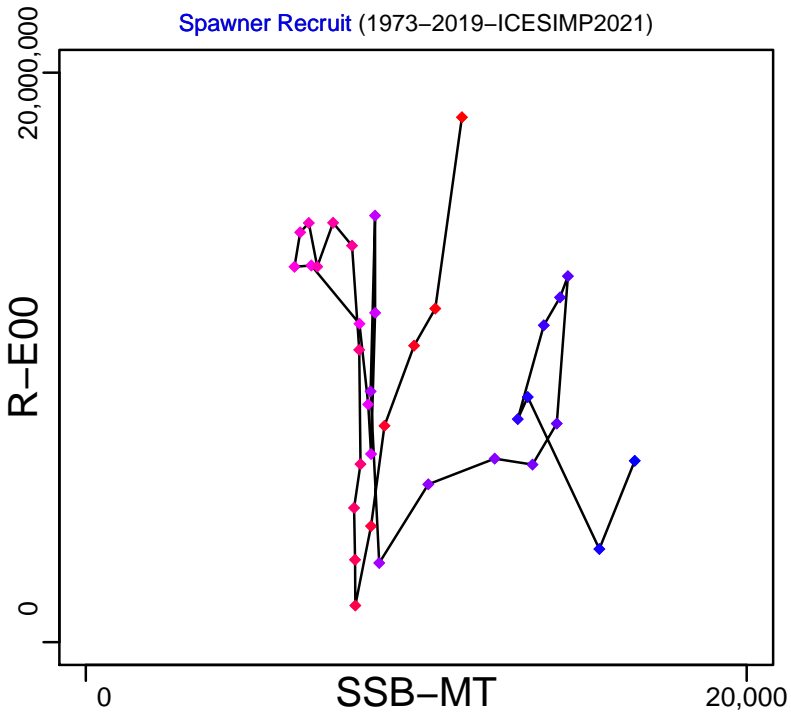
Kobe MSYpref (1973-2019-ICESIMP2021)



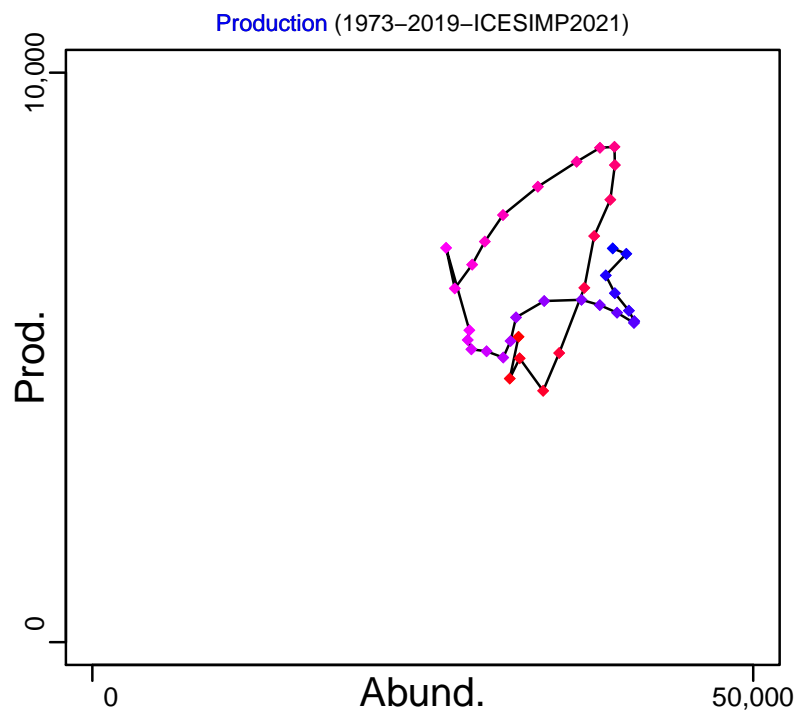
Kobe MGTpref (1973-2019-ICESIMP2021)



Spawner Recruit (1973-2019-ICESIMP2021)



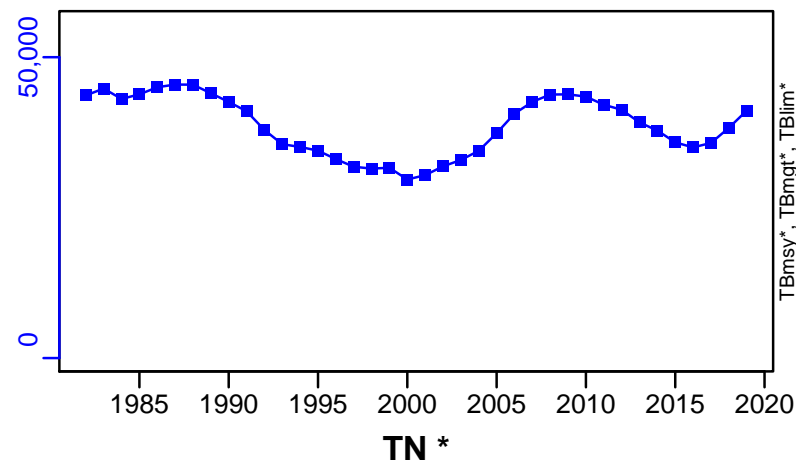
Production (1973-2019-ICESIMP2021)



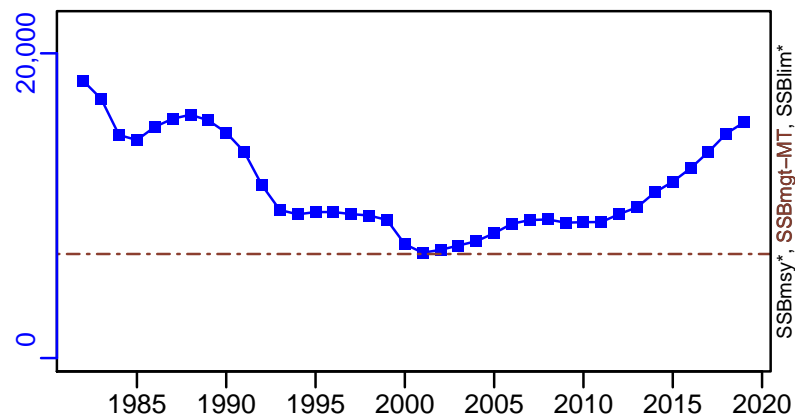
◆ Start Year ◆ End Year * No Data

Tusk ICES 5a-14 [CUSKVa-XIV]

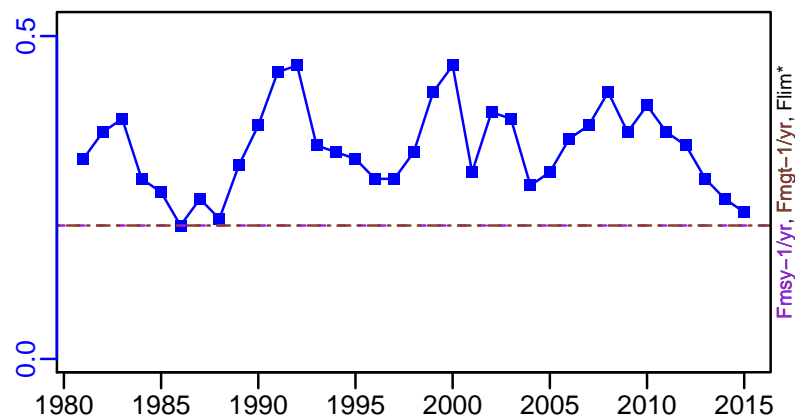
TB-MT (1973-2019-ICESIMP2021)



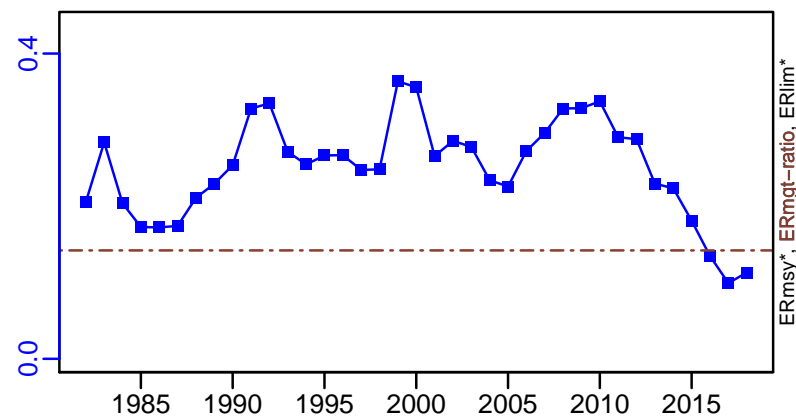
SSB-MT (1973-2019-ICESIMP2021)



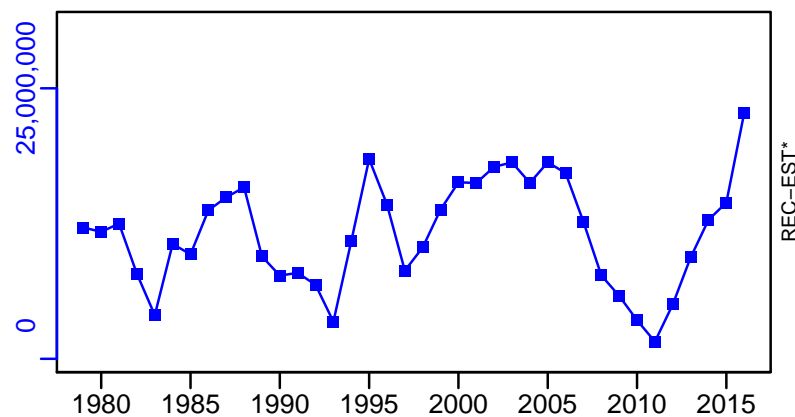
F-1/yr (1981-2016-ICESIMP2016)



ER-ratio (1973-2019-ICESIMP2021)

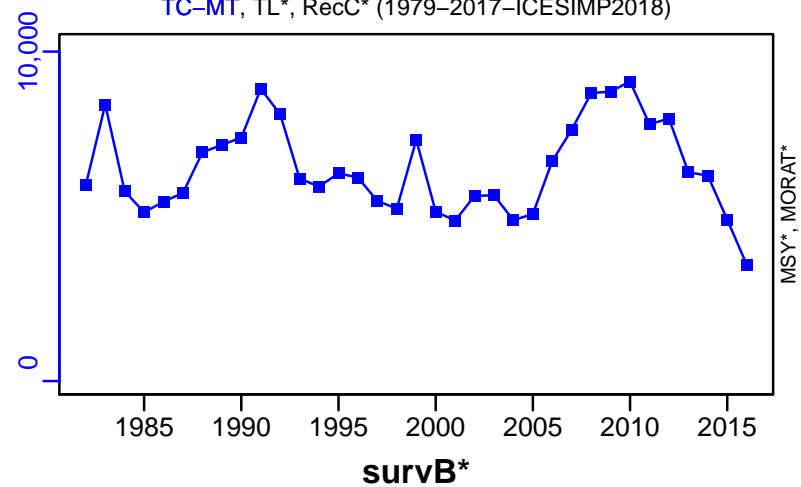


R-E00 (1973-2019-ICESIMP2021)



Tusk ICES 5a-14 [CUSKVa-XIV]

TC-MT, TL*, RecC* (1979-2017-ICESIMP2018)



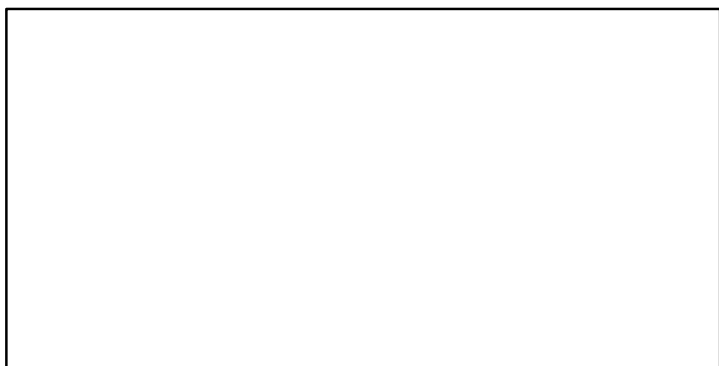
TAC*, Cpair*, Cadv*



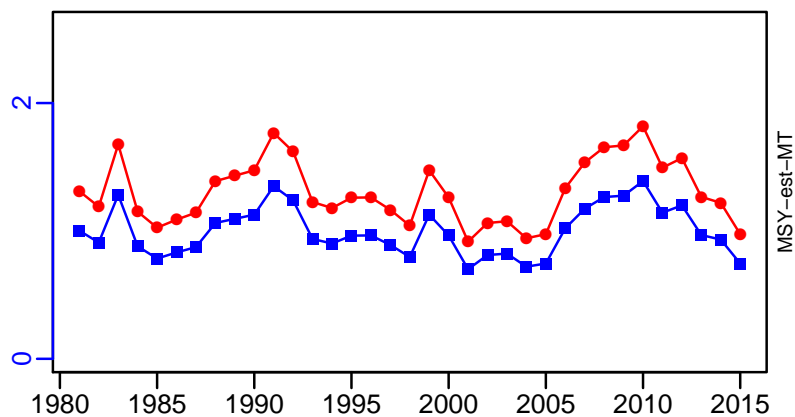
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1981-2016-ICESIMP2016)



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

Tusk Rockall Bank [CUSKVlb]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVlb-1988-2017-ICESIMP2018
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

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	47		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



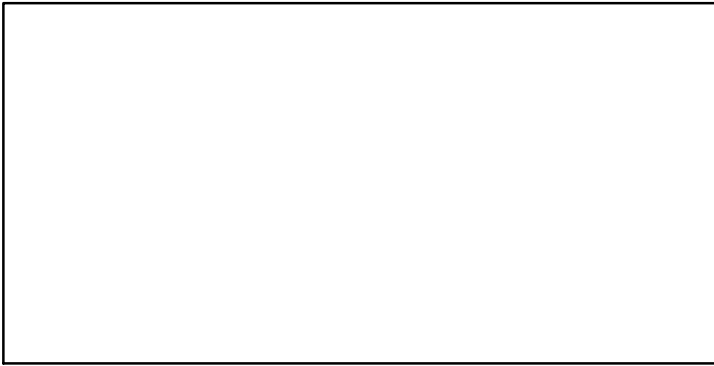
Production*



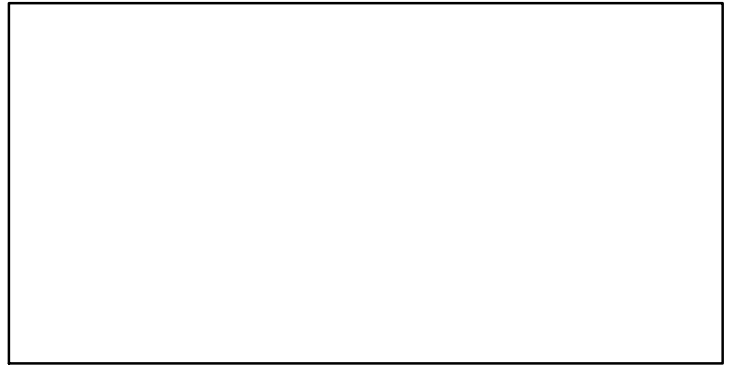
◆ Start Year ◆ End Year * No Data

Tusk Rockall Bank [CUSKVlb]

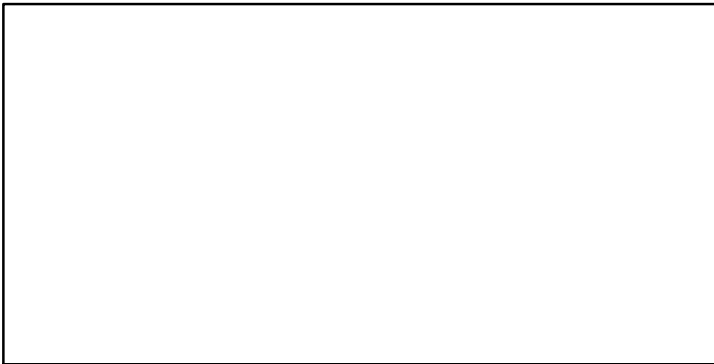
TB*



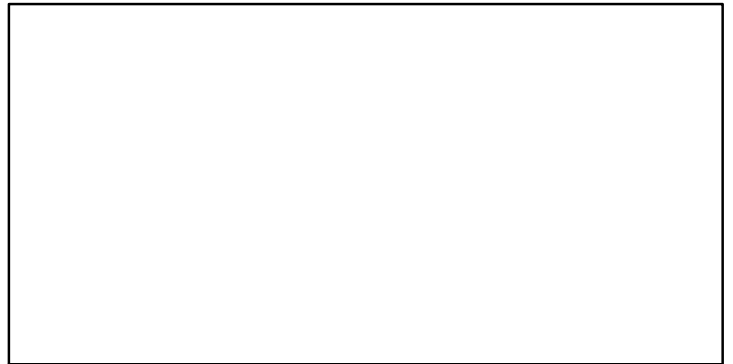
SSB*



TN *



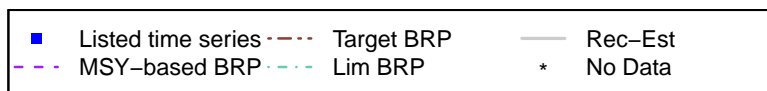
F*



ER*

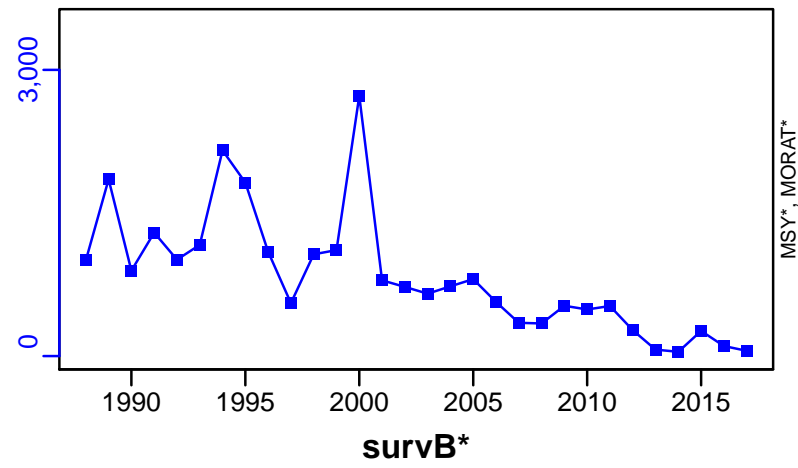


Recruits*



Tusk Rockall Bank [CUSKVlb]

TL-MT, TC*, RecC* (1988–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



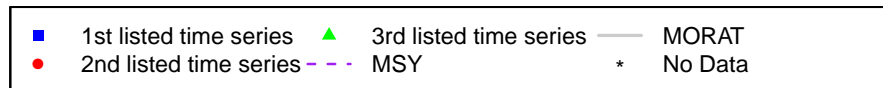
CPUE*



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*



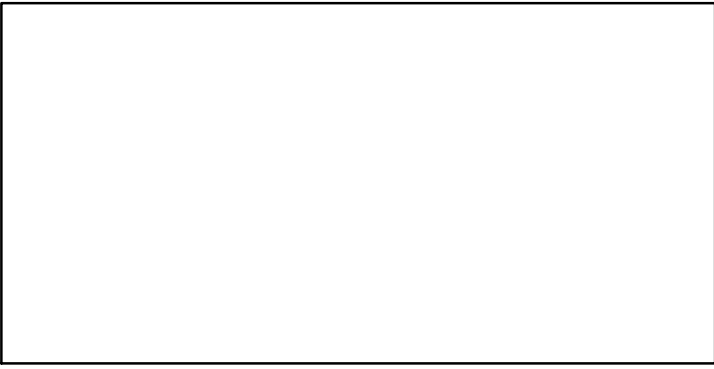
Production*



◆ Start Year ◆ End Year * No Data

Tusk North of Azores [CUSKXII]

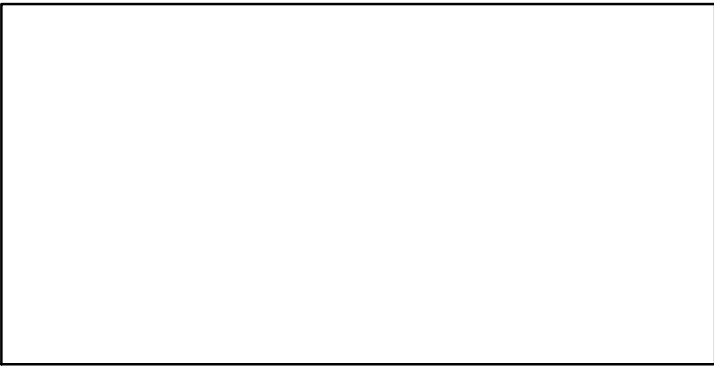
TB*



SSB*



TN *



F*



ER*



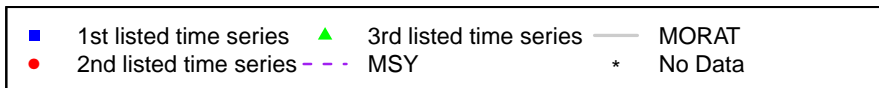
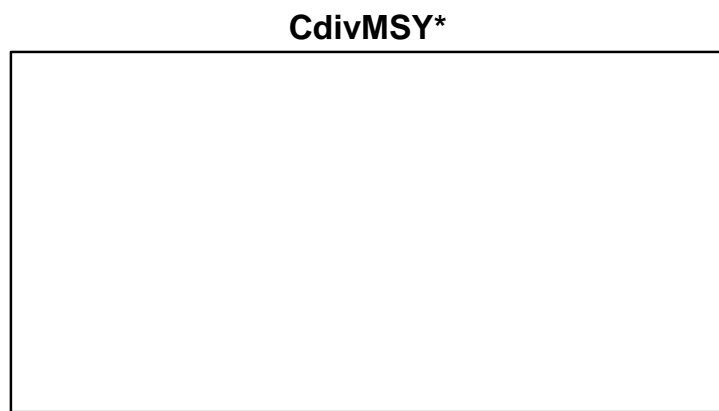
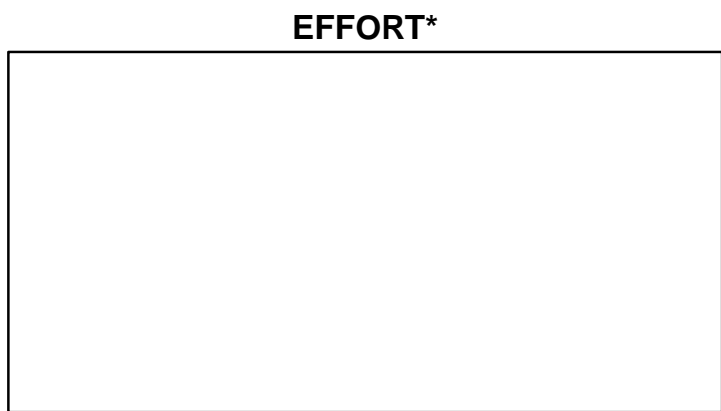
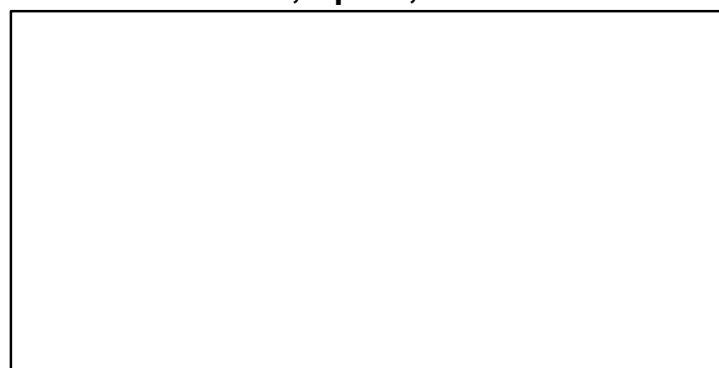
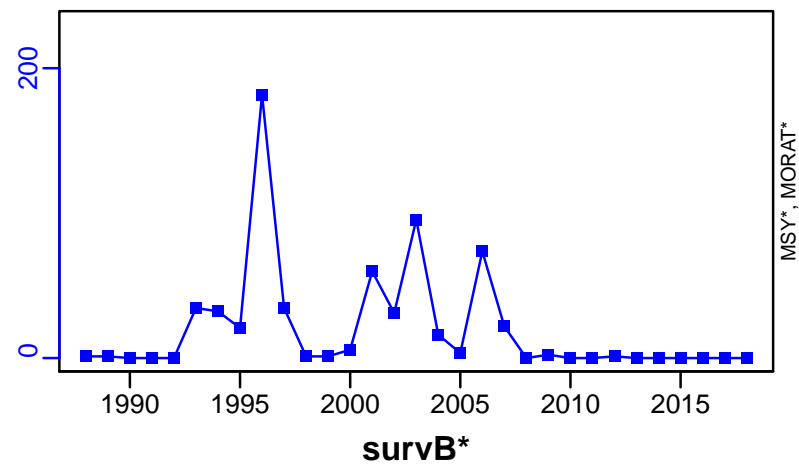
Recruits*



Tusk North of Azores [CUSKXII]

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

TAC*, Cpair*, Cadv*



Dab Baltic Areas 22-32 [DAB2232]

Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGBFAS-DAB2232-1970-2016-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016

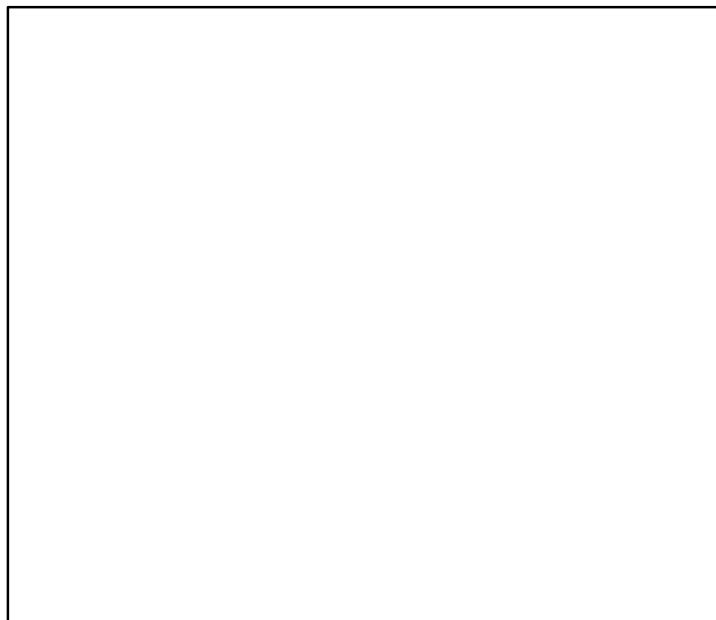
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2360		
TL	TL-MT	2016	1270		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

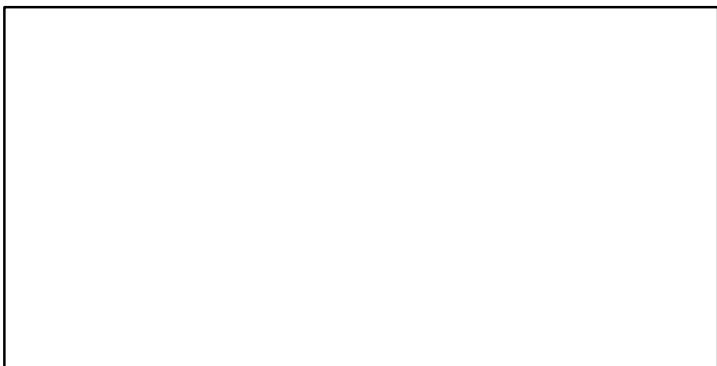


Production*

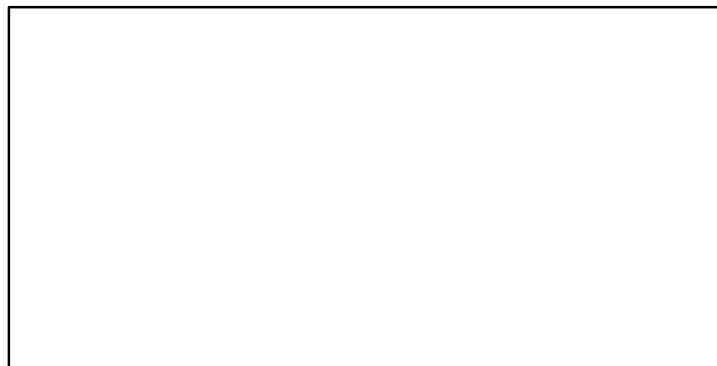


◆ Start Year ◆ End Year * No Data

TB*



SSB*



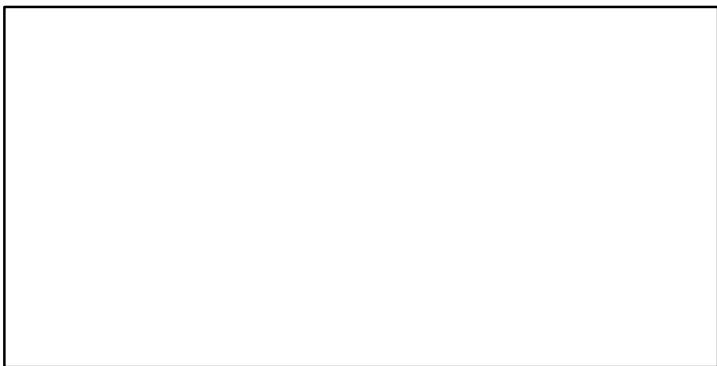
TN *



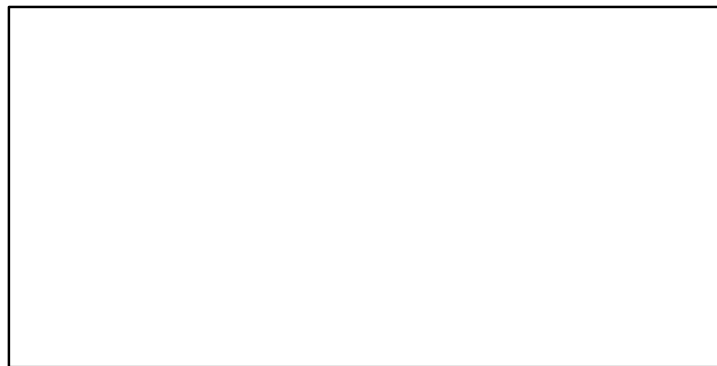
F*



ER*

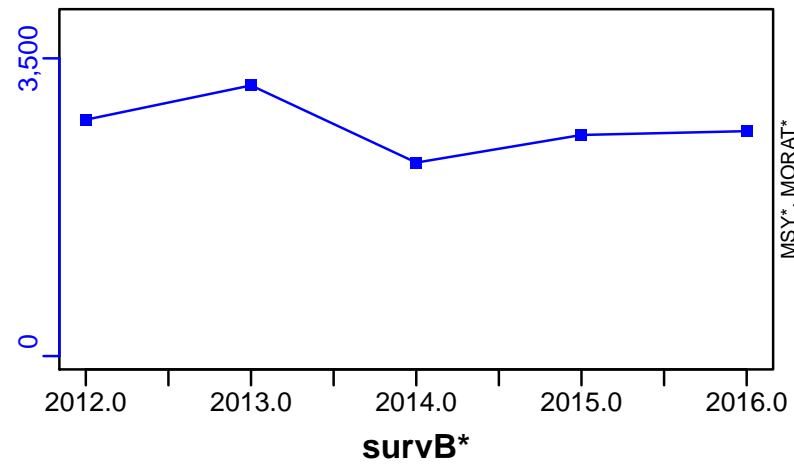


Recruits*



Dab Baltic Areas 22–32 [DAB2232]

TC–MT, TL*, RecC* (1970–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

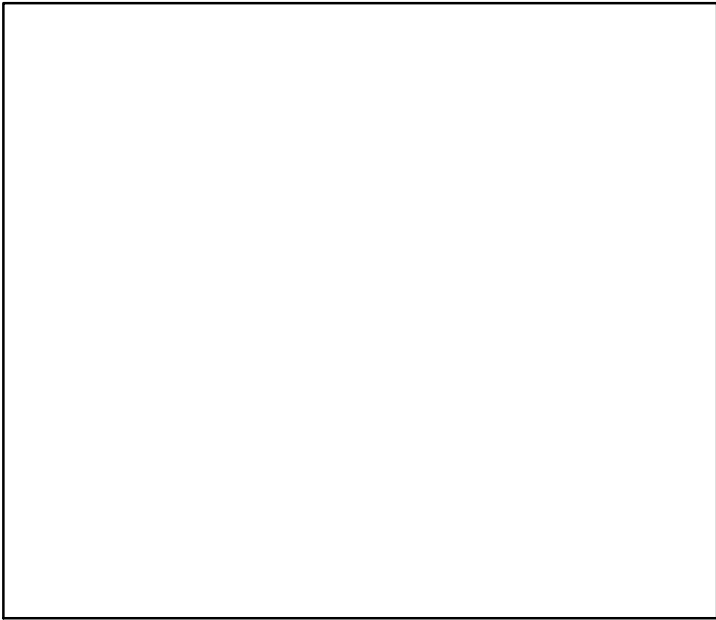
Dab ICES 3a-4 [DABIIIa-IV]

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

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

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

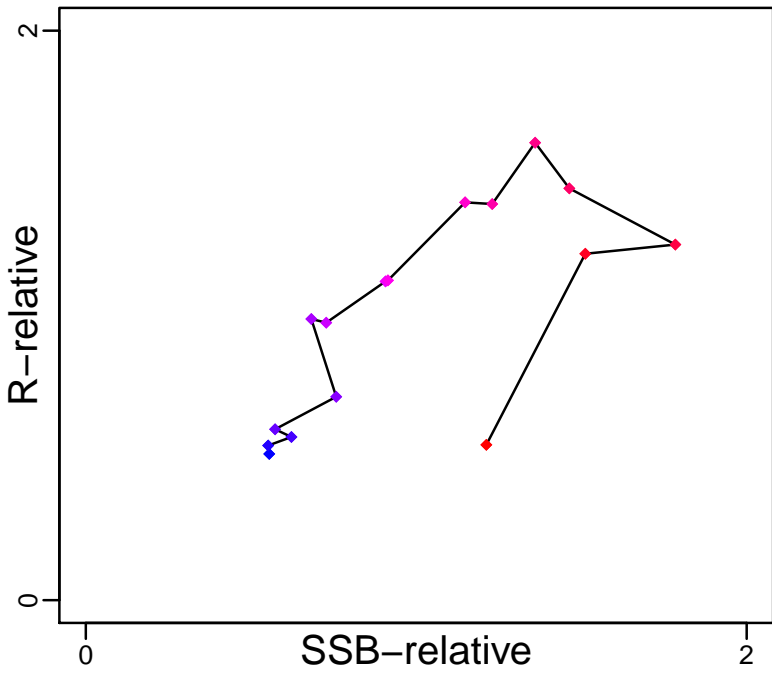
Kobe MSY*



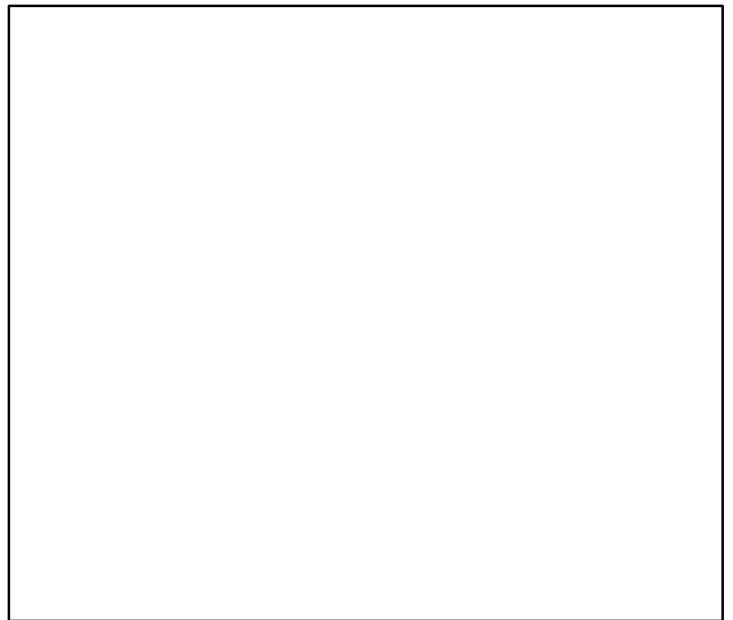
Kobe MGT*



Spawner Recruit (1965-2018-ICESIMP2021)



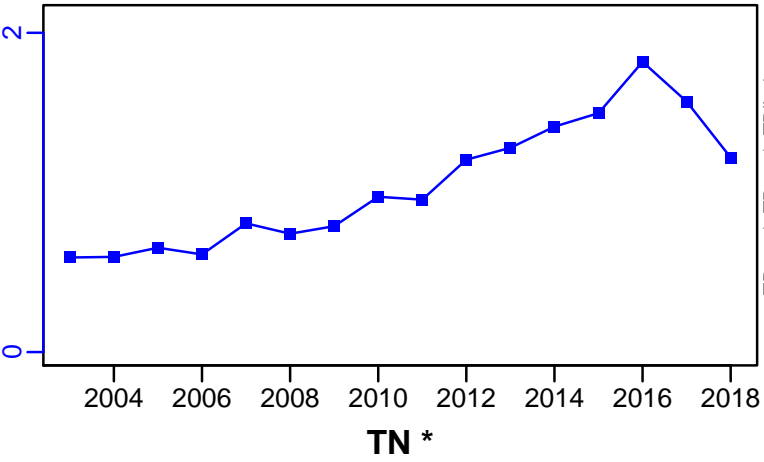
Production*



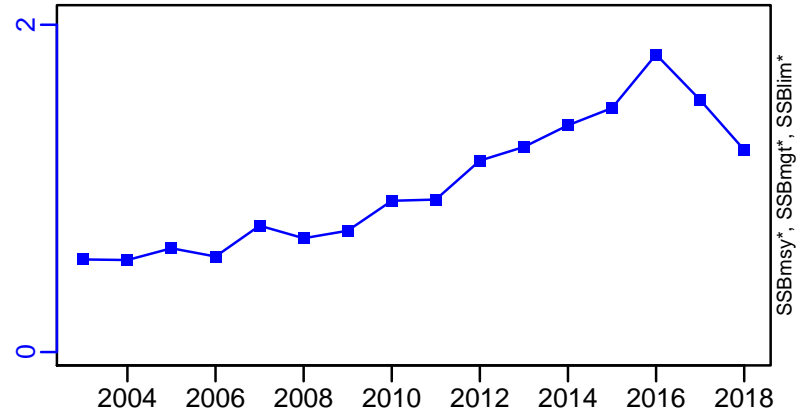
◆ Start Year ◆ End Year * No Data

Dab ICES 3a-4 [DABIIIa-IV]

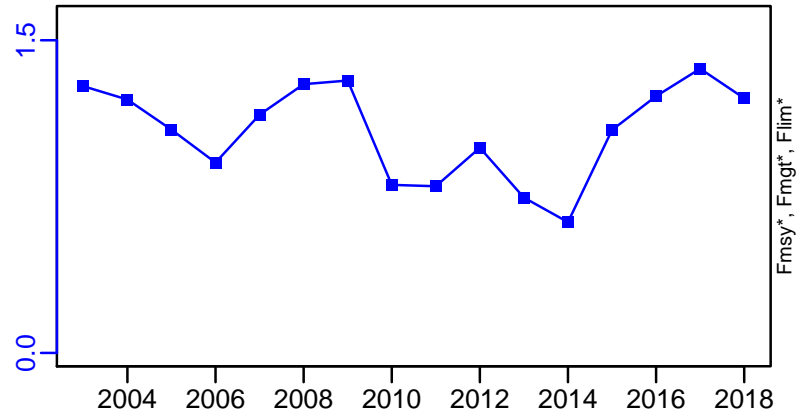
TB-relative (1965-2018-ICESIMP2021)



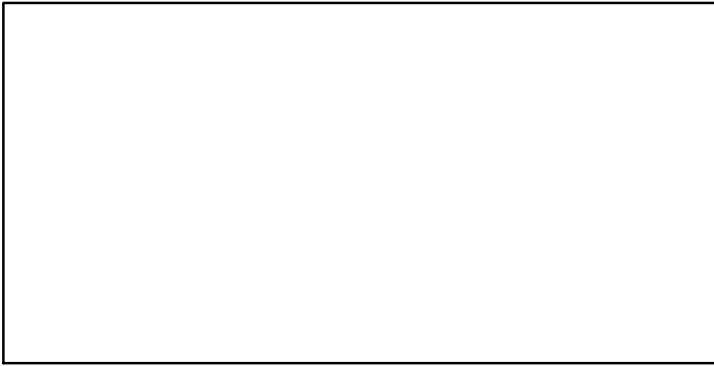
SSB-relative (1965-2018-ICESIMP2021)



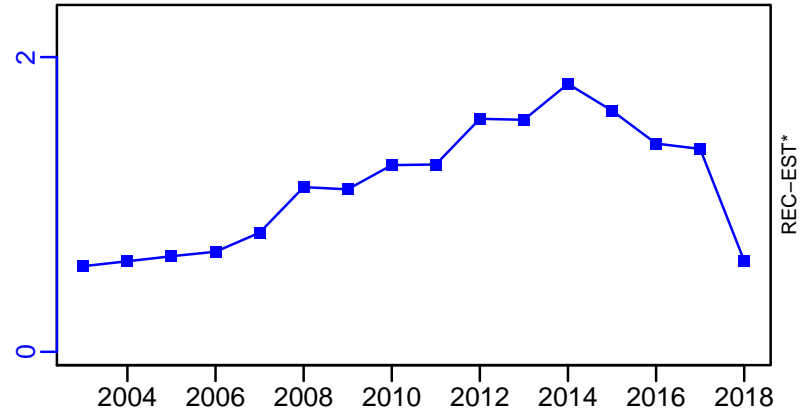
F-relative (1965-2018-ICESIMP2021)



ER*

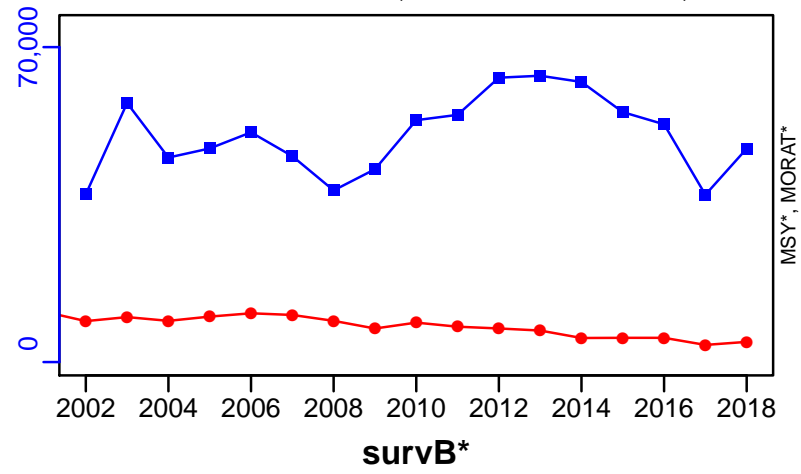


R-relative (1965-2018-ICESIMP2021)



Dab ICES 3a-4 [DABIIIa-IV]

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



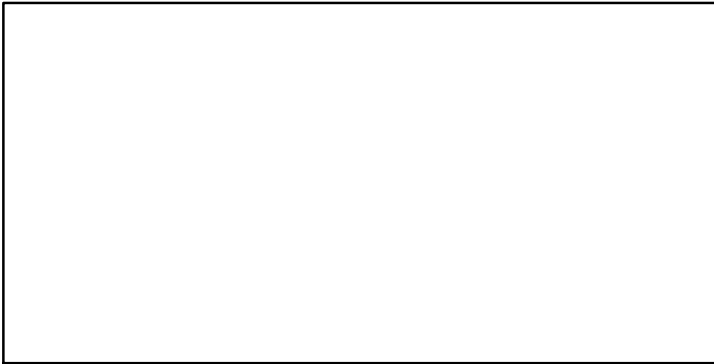
TAC*, Cpair*, Cadv*



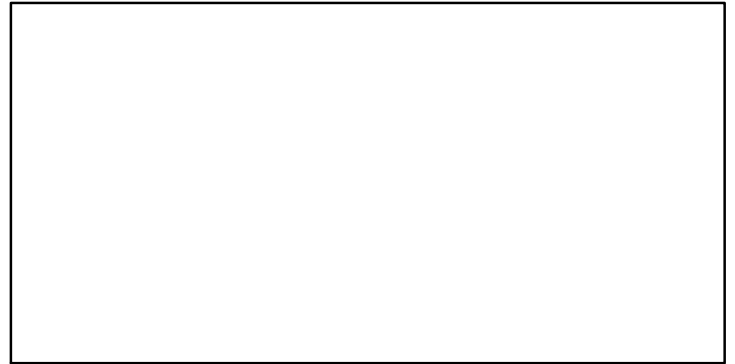
CPUE*



EFFORT*



CdivMSY*



European seabass ICES 4bc-7 [EBASSIVbc-VII]

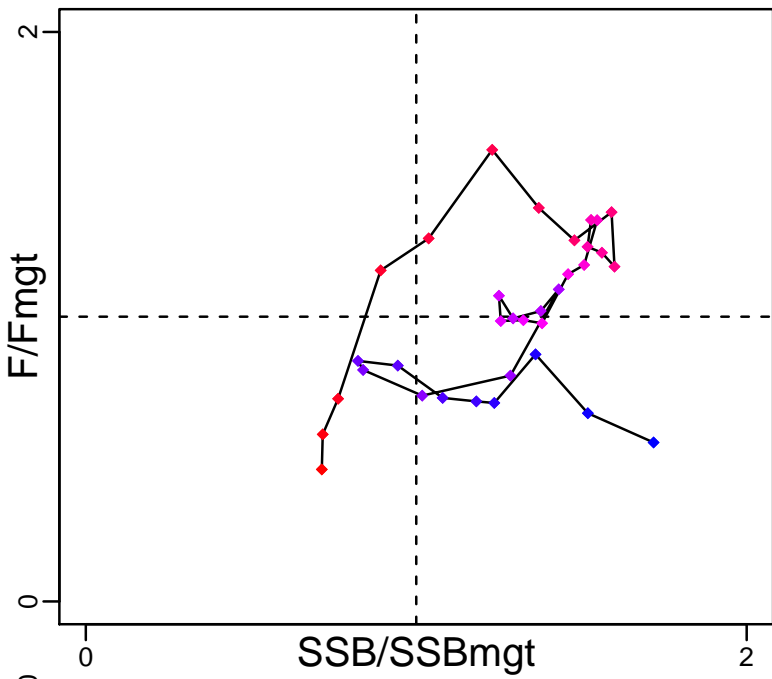
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSIVbc-VII-1985-2019-ICESIMP2021
Area	ICES 4bc-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.203
ERmsy	ERmsy-est-ratio	2019	0.086
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	14,439
Fmgt	Fmgt-1/yr	2019	0.171
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	9618
Flim	Flim-1/yr	2018	0.295
ERlim	-	-	-

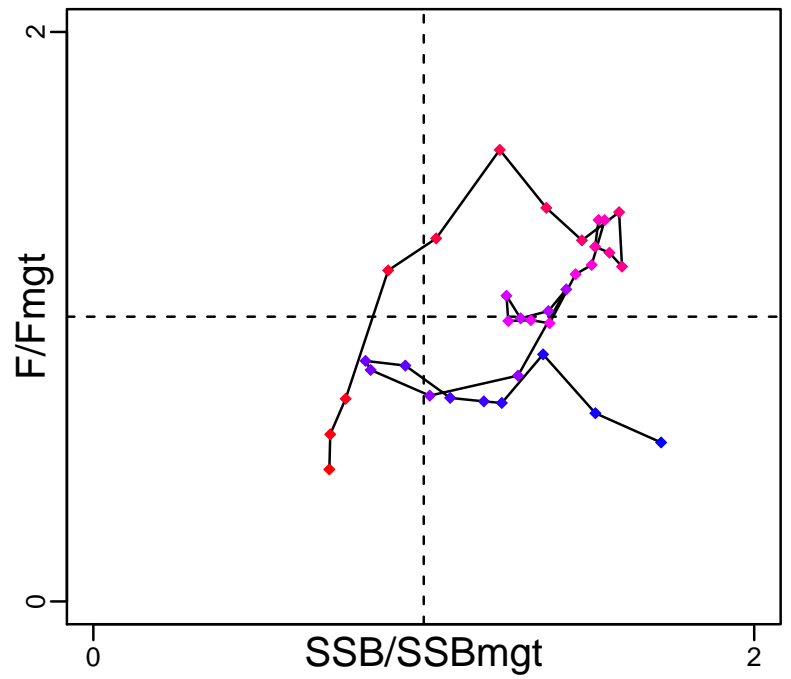
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	10,800	Both	-
SSB	SSB-MT	2019	10,884	-	-
TN	-	-	-	-	-
R	R-E00	2019	12,382,797	-	0
F	F-1/yr	2019	0.079	-	4 to 15
ER	ER-calc-ratio	2019	0.049	-	-
TC	TC-MT	2018	1150		
TL	TL-MT	2019	801		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.591		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.564		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.754		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.464		
ER/ERmgt	-	-	-		

European seabass ICES 4bc-7 [EBASSIVbc-VII]

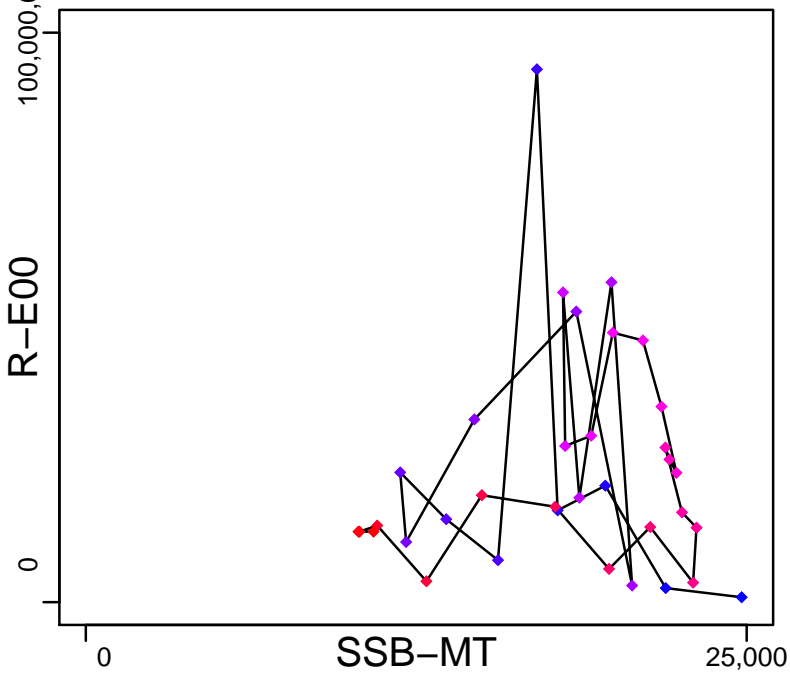
Kobe MSYpref (1985–2019–ICESIMP2021)



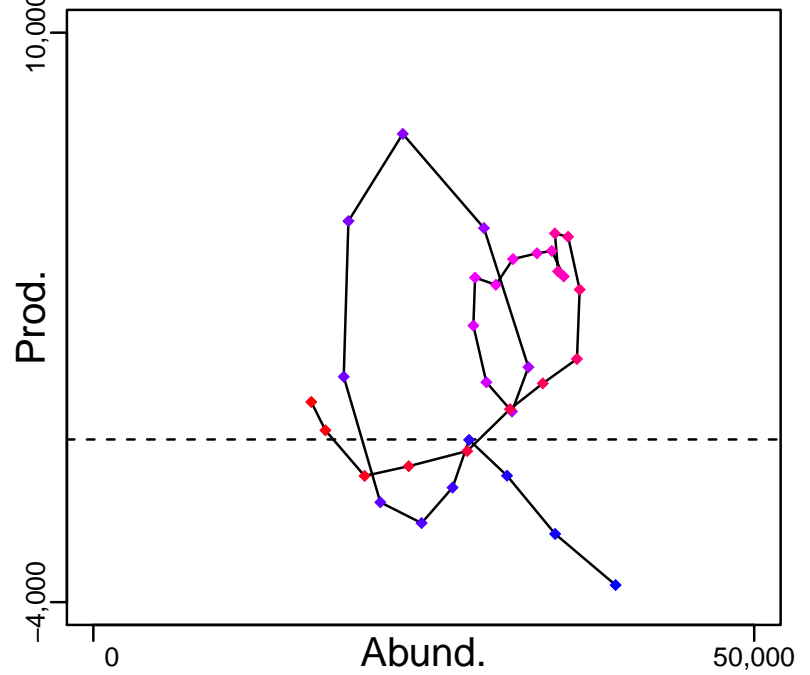
Kobe MGTpref (1985–2019–ICESIMP2021)



Spawner Recruit (1985–2019–ICESIMP2021)



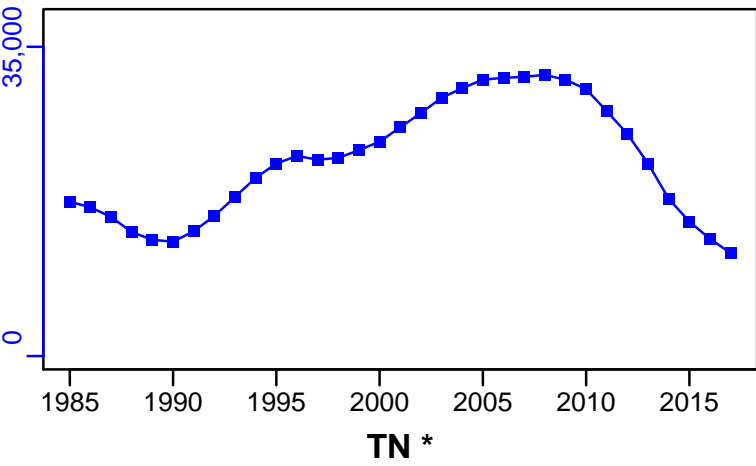
Production (1985–2019–ICESIMP2021)



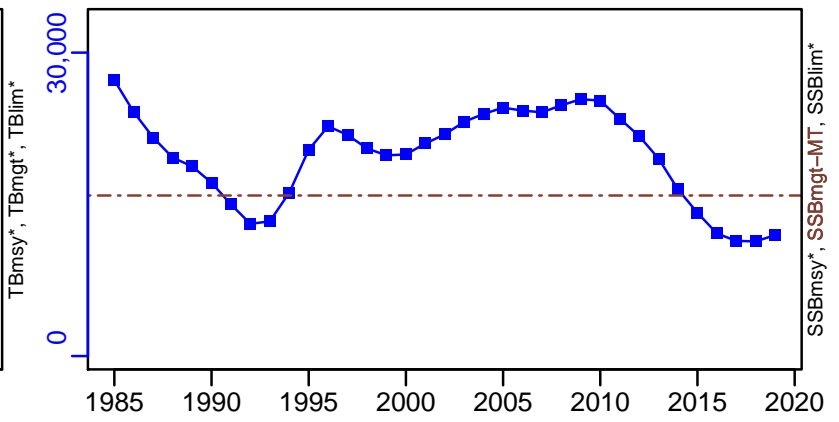
◆ Start Year ◆ End Year * No Data

European seabass ICES 4bc-7 [EBASSIVbc-VII]

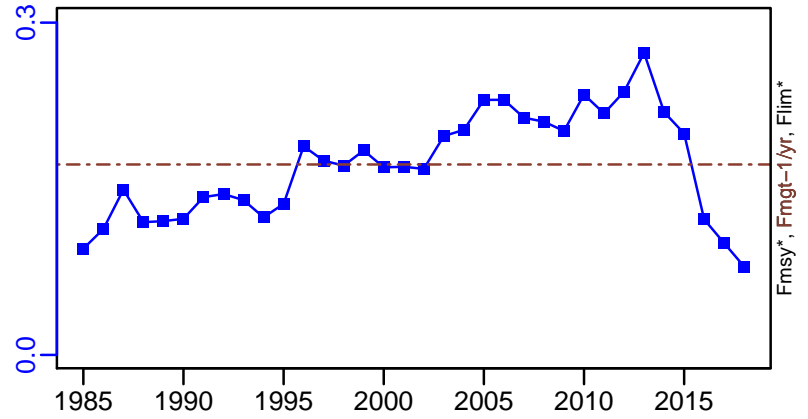
TB-MT (1985-2017-ICESIMP2018)



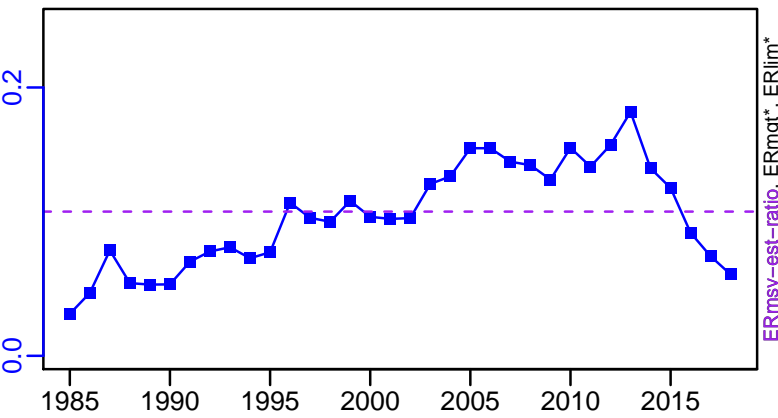
SSB-MT (1985-2019-ICESIMP2021)



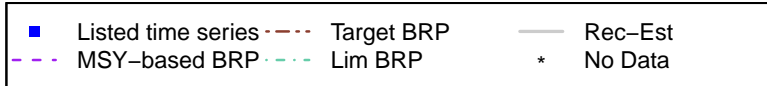
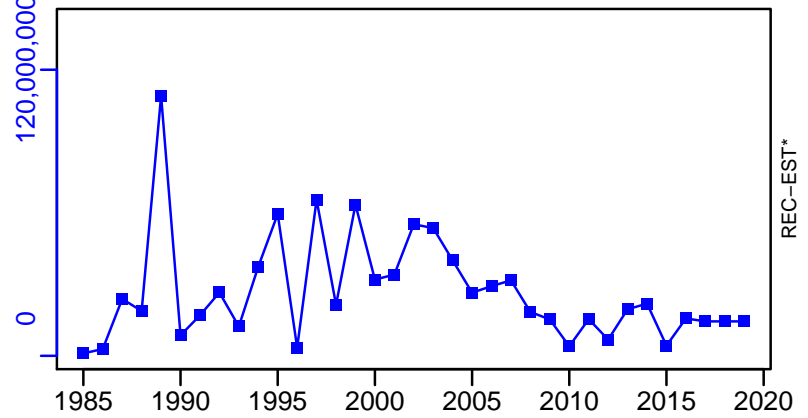
F-1/yr (1985-2019-ICESIMP2021)



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

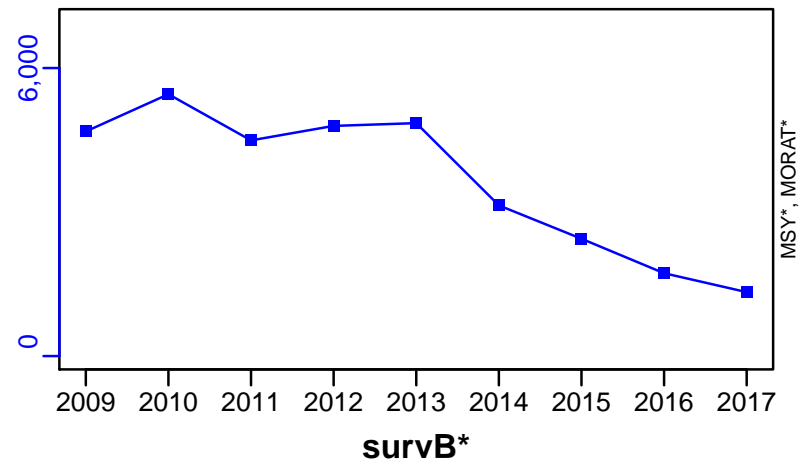


R-E00 (1985-2019-ICESIMP2021)



European seabass ICES 4bc-7 [EBASSIVbc-VII]

TC-MT, TL*, RecC* (1985-2018-ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



European seabass ICES 6a-7b-j [EBASSVIa-VIIb-j]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSVIa-VIIb-j-2000-2016-ICESIMP2018
Area	ICES 6a-7b-j
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
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	2015	2		
TL	TL-MT	2016	0.1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



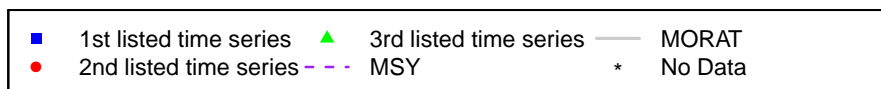
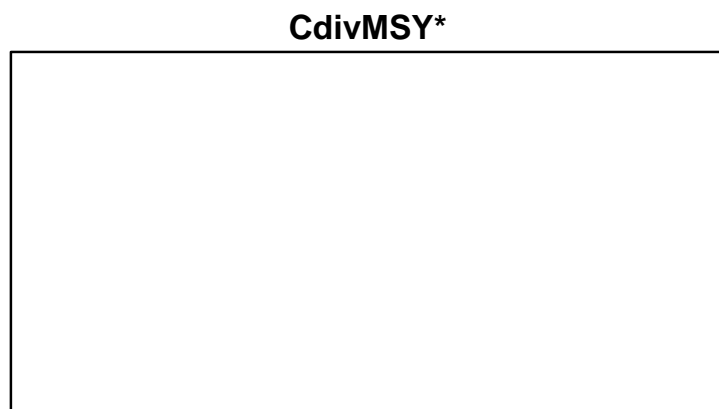
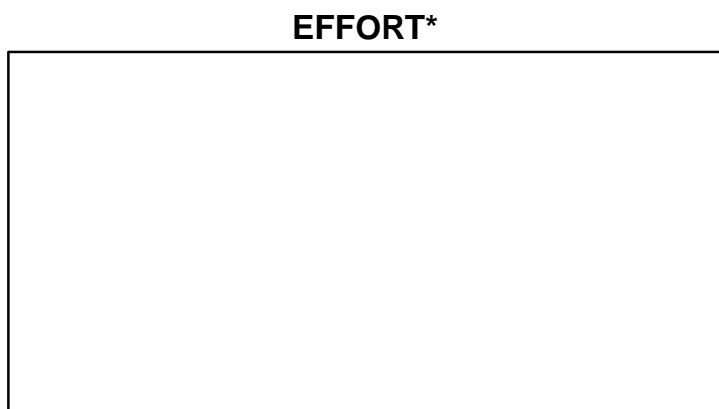
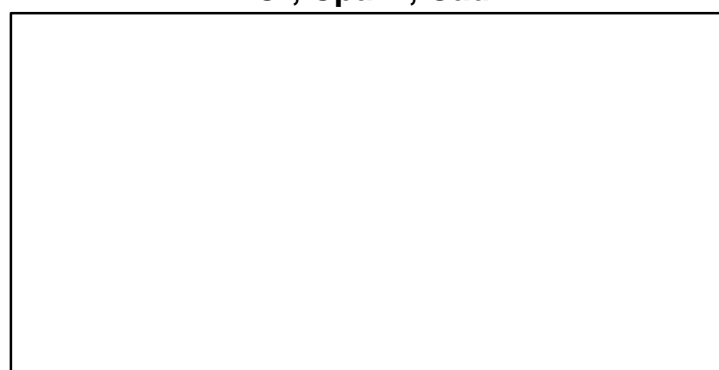
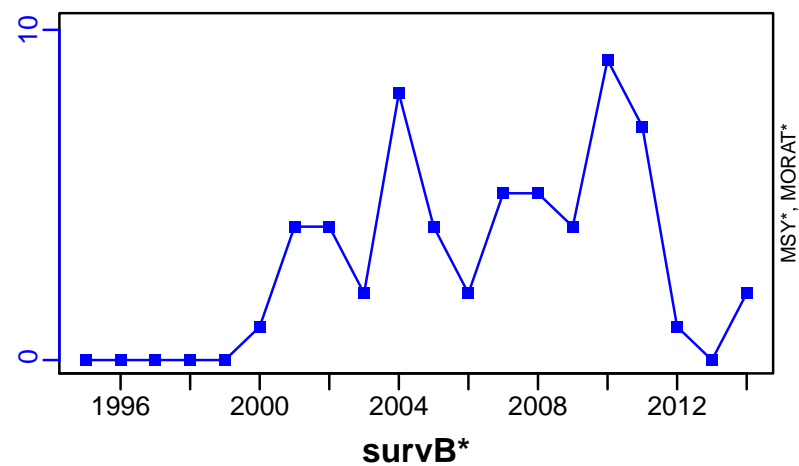
Recruits*



European seabass ICES 6a–7b–j [EBASSVIa–VIIb–j]

TC–MT, TL*, RecC* (1995–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



European seabass ICES 8ab [EBASSVIIIab]

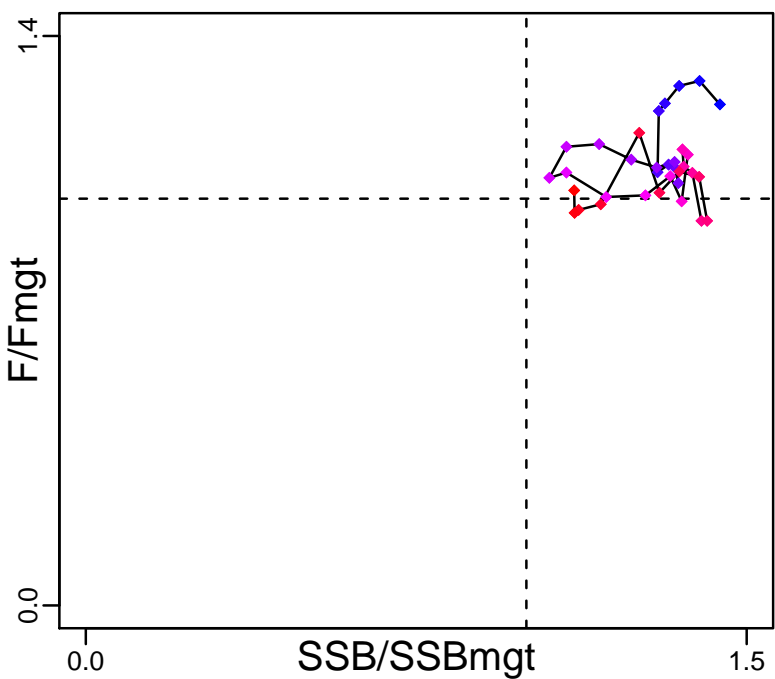
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIab-1985-2019-ICESIMP2021
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2019, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	16,688
Fmgt	Fmgt-1/yr	2019	0.123
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

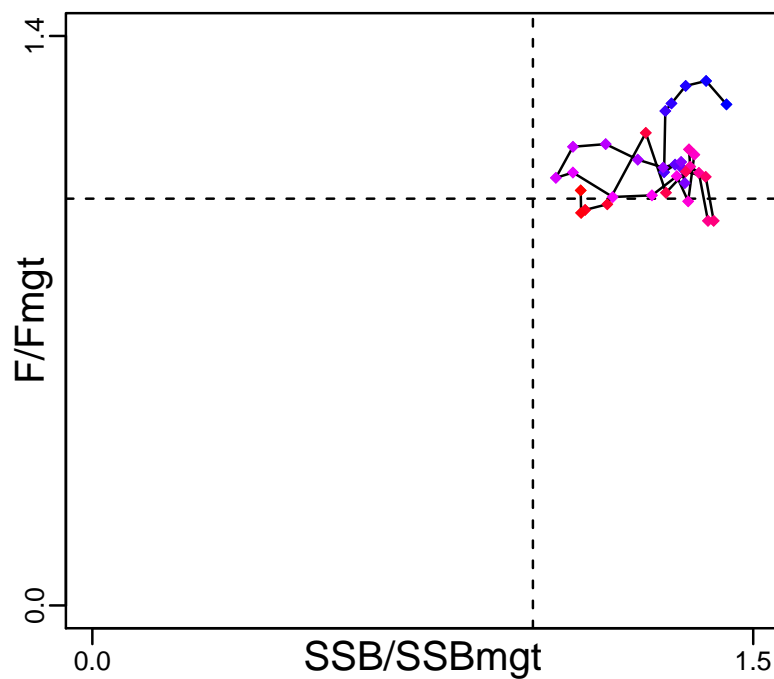
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	17,730	-	-
TN	-	-	-	-	-
R	R-E00	2019	18,827,000	-	0
F	F-1/yr	2019	0.126	-	4 to 15
ER	ER-calc-ratio	2019	0.109	-	-
TC	TC-MT	2019	2422		
TL	TL-MT	2019	2316		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.062		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.02		
ER/ERmgt	-	-	-		

European seabass ICES 8ab [EBASSVIIIab]

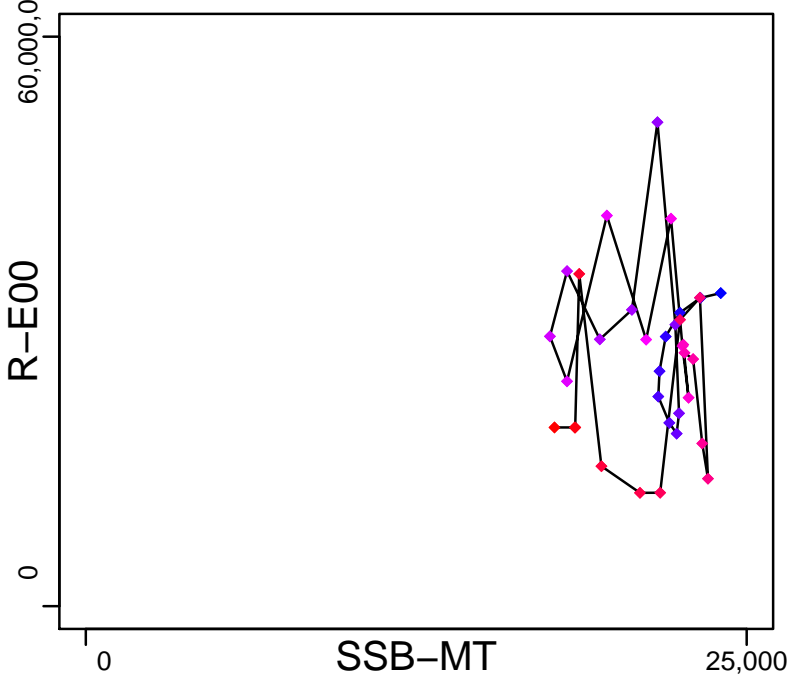
Kobe MSYpref (1985–2019–ICESIMP2021)



Kobe MGTpref (1985–2019–ICESIMP2021)



Spawner Recruit (1985–2019–ICESIMP2021)



Production*



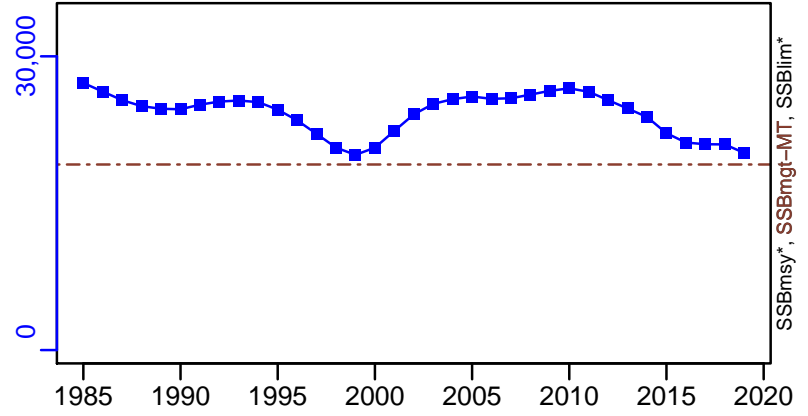
◆ Start Year ◆ End Year * No Data

European seabass ICES 8ab [EBASSVIIIab]

TB*



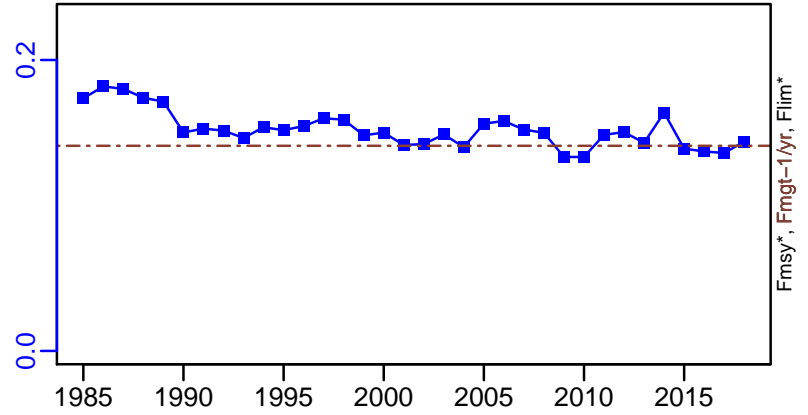
SSB-MT (1985–2019–ICESIMP2021)



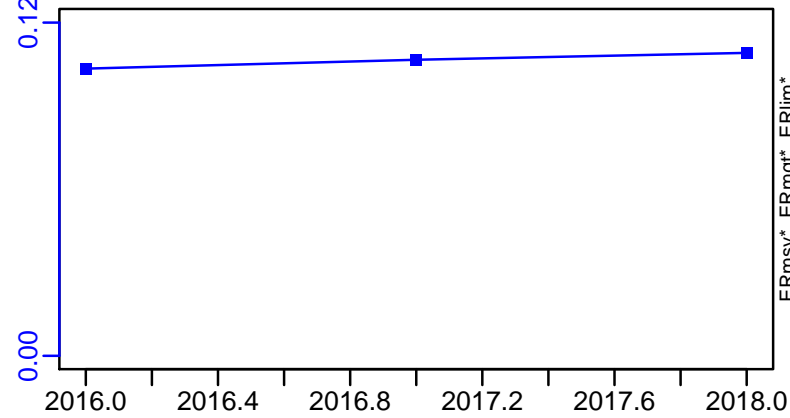
TN *



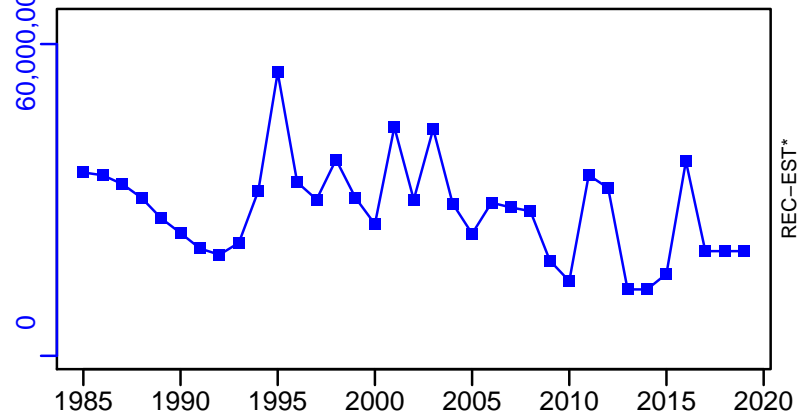
F-1/yr (1985–2019–ICESIMP2021)



ER-calc-ratio (1985–2019–ICESIMP2021)

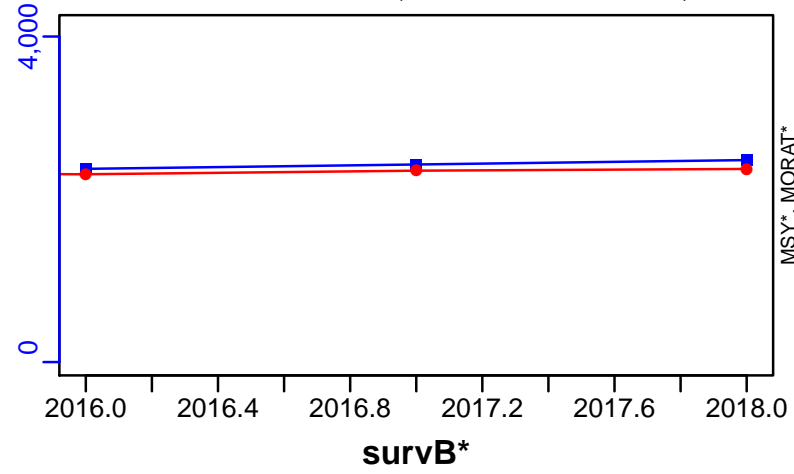


R-E00 (1985–2019–ICESIMP2021)



European seabass ICES 8ab [EBASSVIIIab]

TC-MT, TL-MT, RecC* (1985–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



European seabass ICES 8c-9a [EBASSVIIIc-IXa]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIc-IXa-1978-2018-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 2018

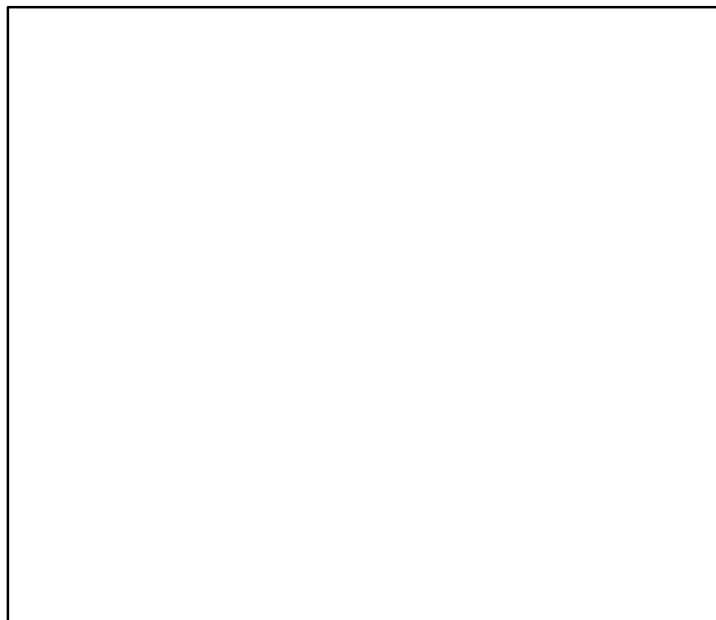
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	917		
TL	TL-MT	2018	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



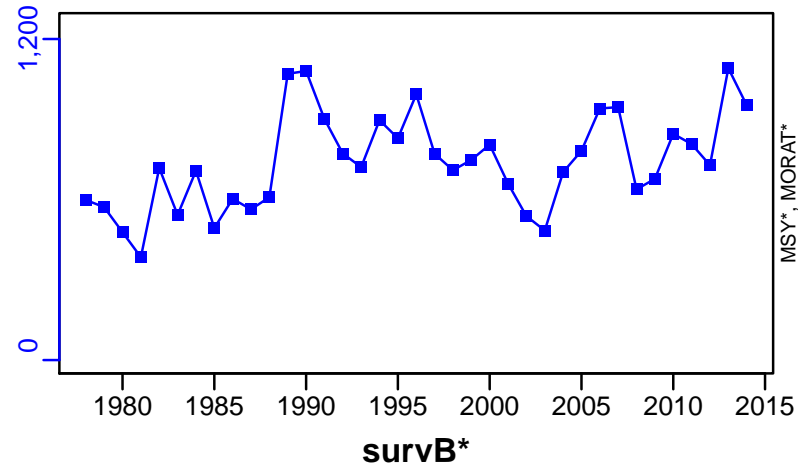
Recruits*



European seabass ICES 8c–9a [EBASSVIIIc–IXa]

TC–MT, TL*, RecC* (1978–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

European flounder Subdivisions 22-23 [EFLOUN2223]

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

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



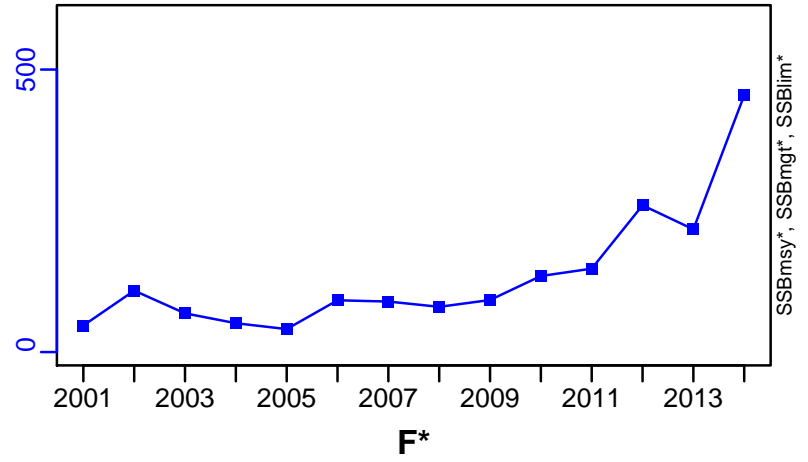
◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

TB*



SSB-index (1973–2014–ICESIMP2018)



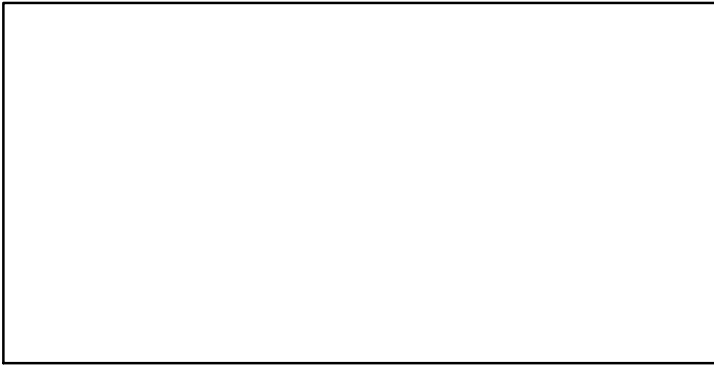
TN *



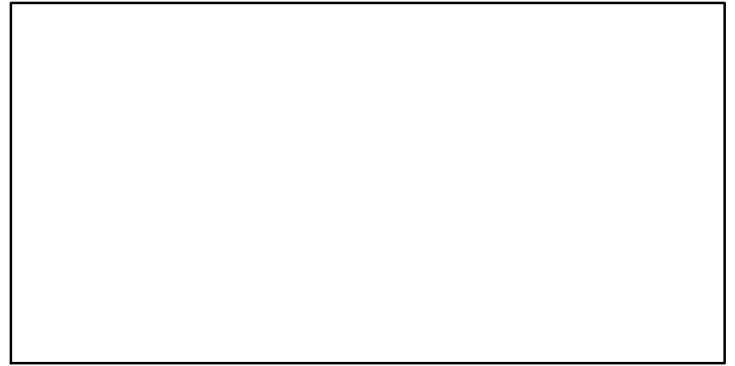
F*



ER*

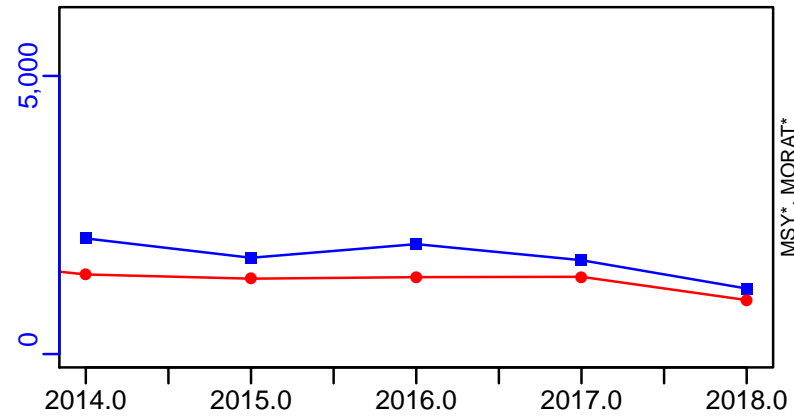


Recruits*



European flounder Subdivisions 22–23 [EFLOUN2223]

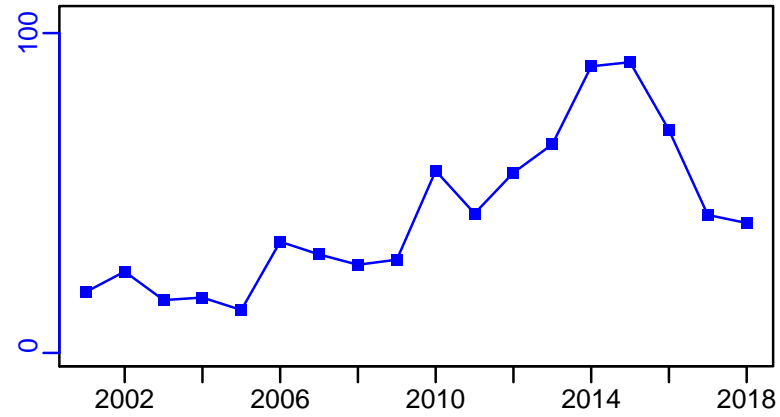
TC–MT, TL–MT, RecC* (1973–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB–index (1973–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

European flounder Subdivisions 24-25 [EFLOUN2425]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2425-1973-2016-ICESIMP2018
Area	Subdivisions 24-25
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016

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	19,800		
TL	TL-MT	2016	11,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



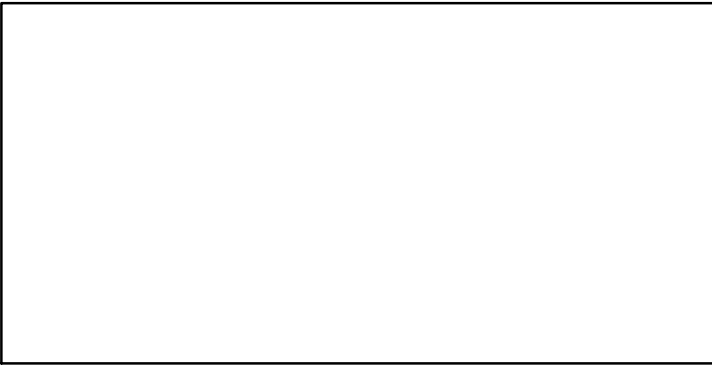
Production*



◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

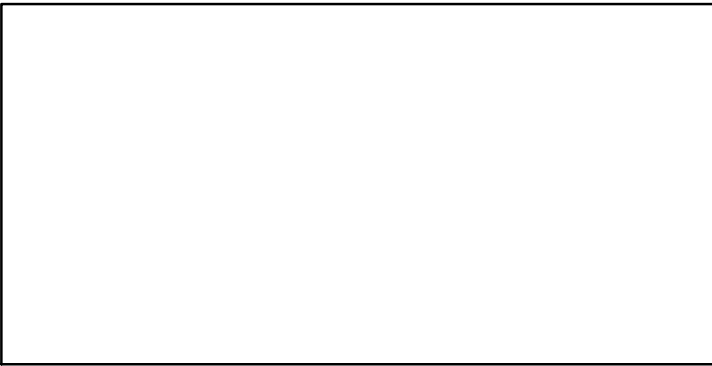
TB*



SSB*



TN *



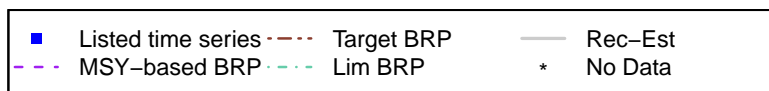
F*



ER*



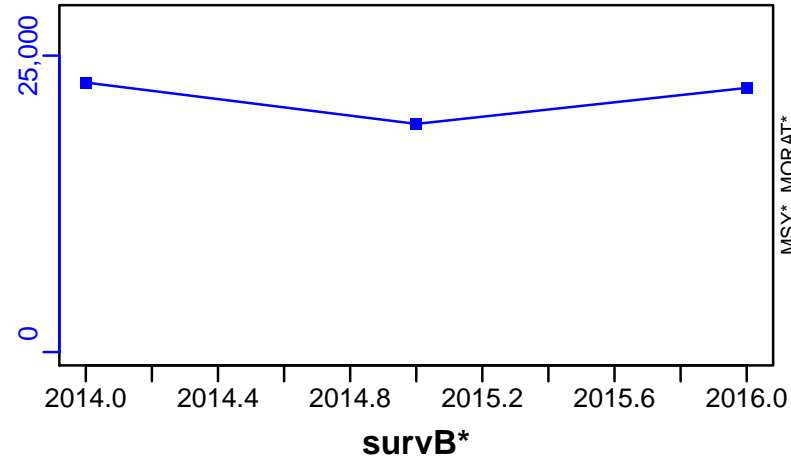
Recruits*



European flounder Subdivisions 24–25 [EFLOUN2425]

TC–MT, TL*, RecC* (1973–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

European flounder Subdivisions 26-28 [EFLOUN26-28]

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

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

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



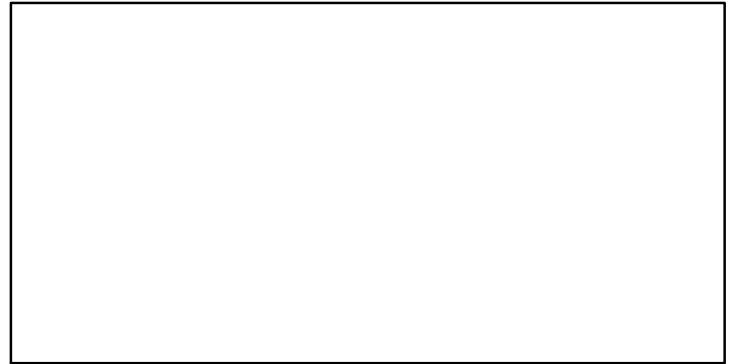
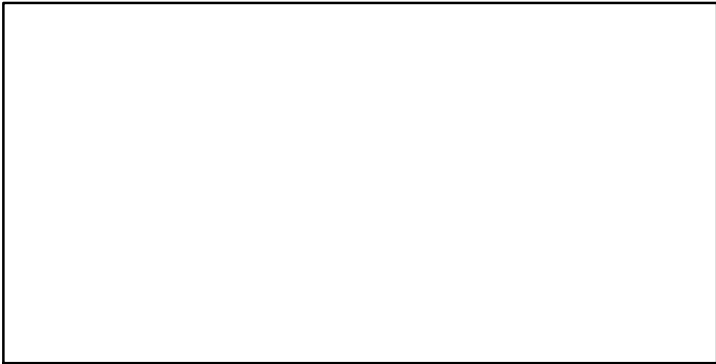
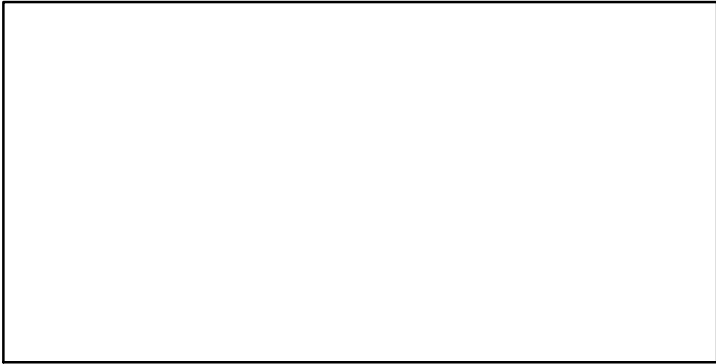
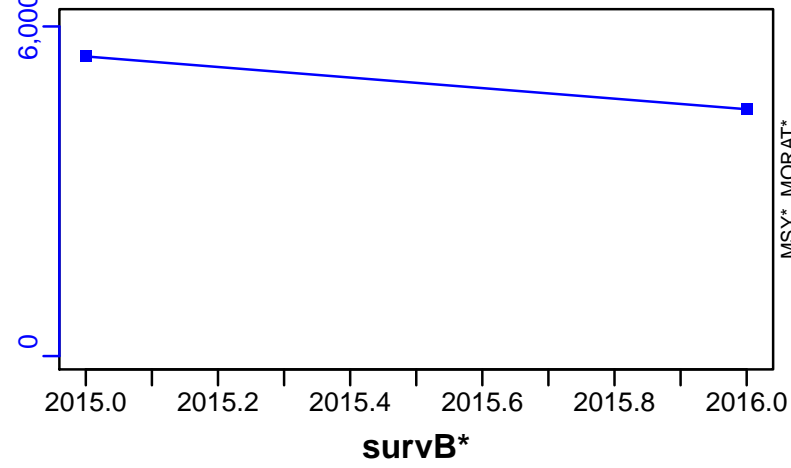
Recruits*



European flounder Subdivisions 26–28 [EFLOUN26–28]

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

TAC*, Cpair*, Cadv*



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

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	176		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

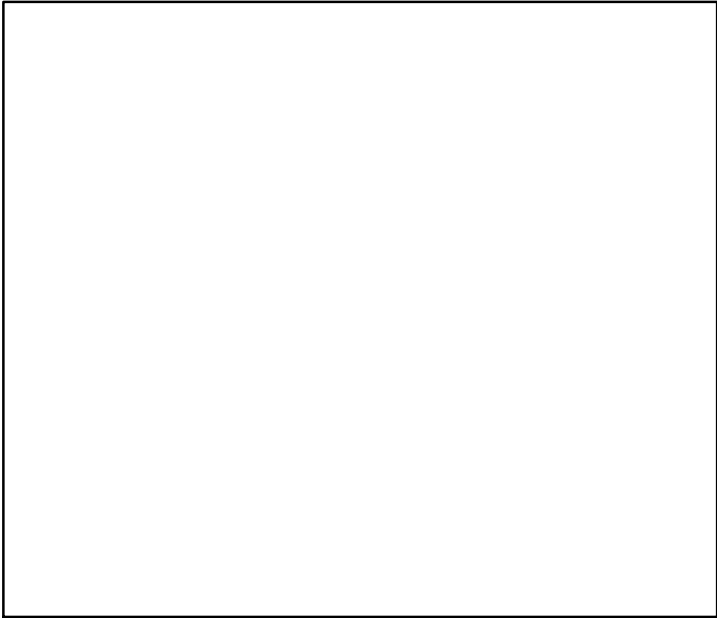
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

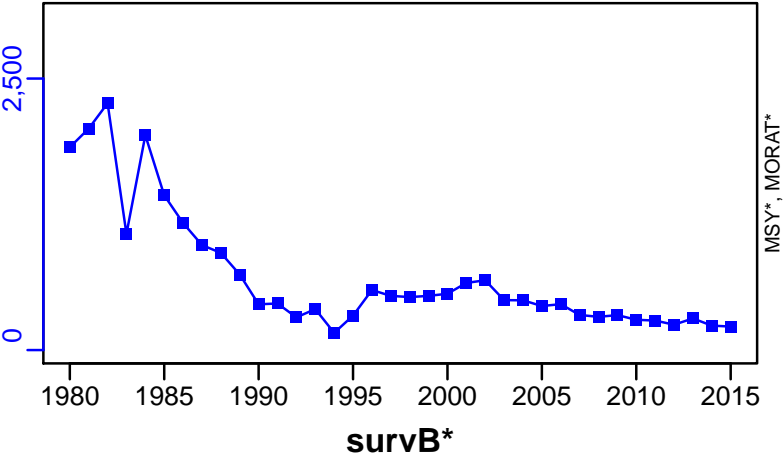


Recruits*



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

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

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

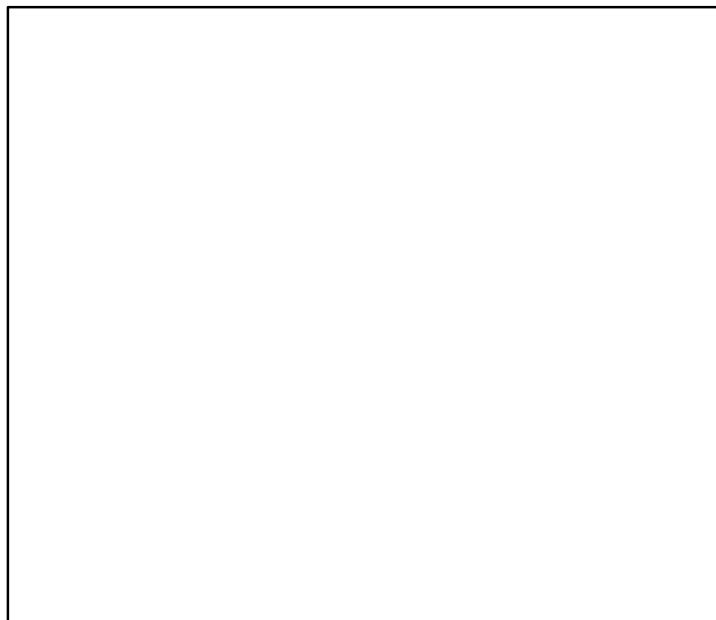
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	0.65	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2019	1191	-	-
TC	TC-MT	2019	2245		
TL	TL-MT	2019	1587		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



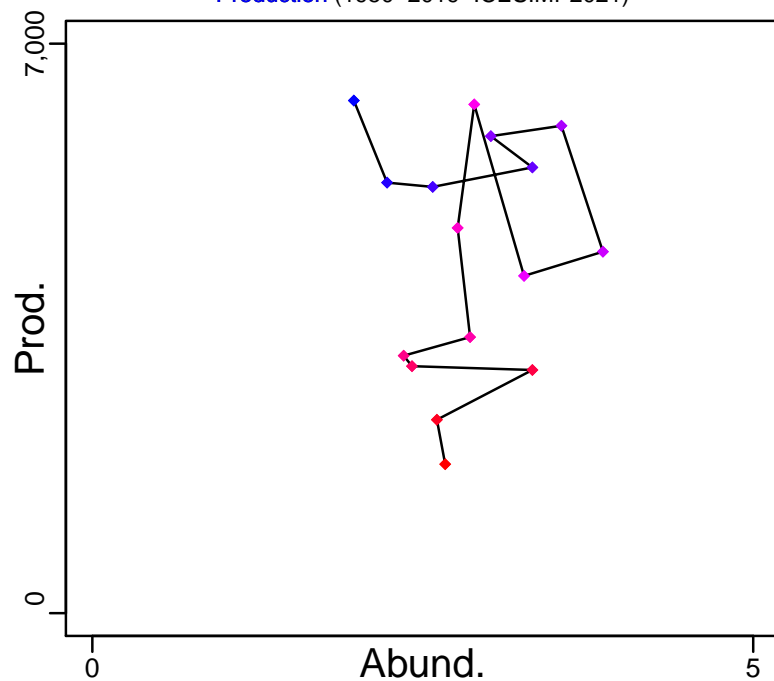
Kobe MGT*



Spawner Recruit*



Production (1950–2019–ICESIMP2021)



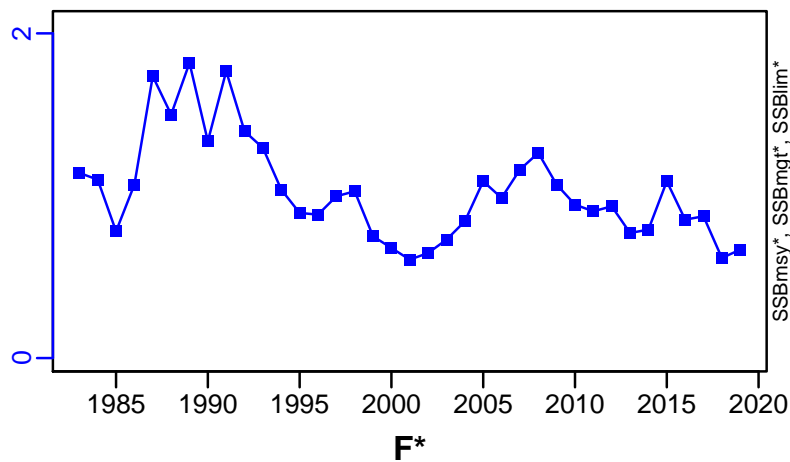
◆ Start Year ◆ End Year * No Data

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

TB*



SSB-MT (1950-2019-ICESIMP2021)



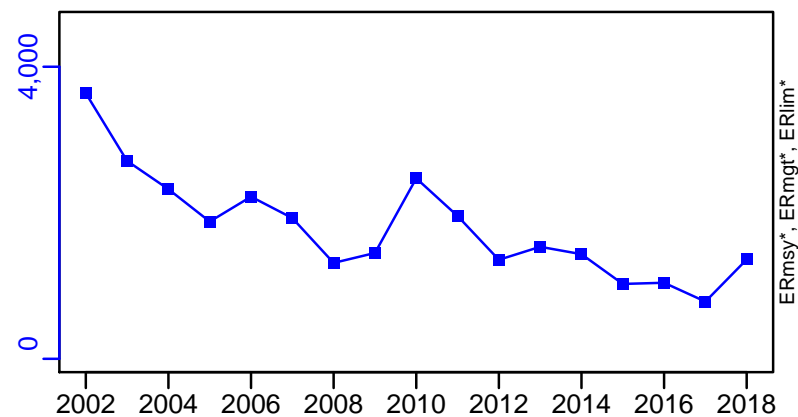
TN *



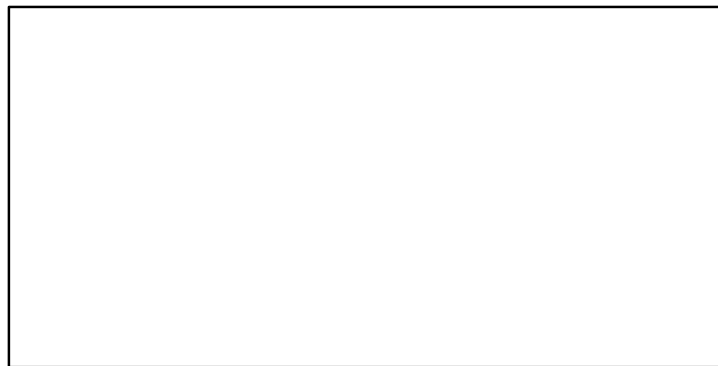
F*



ER-calc-ratio (1950-2019-ICESIMP2021)

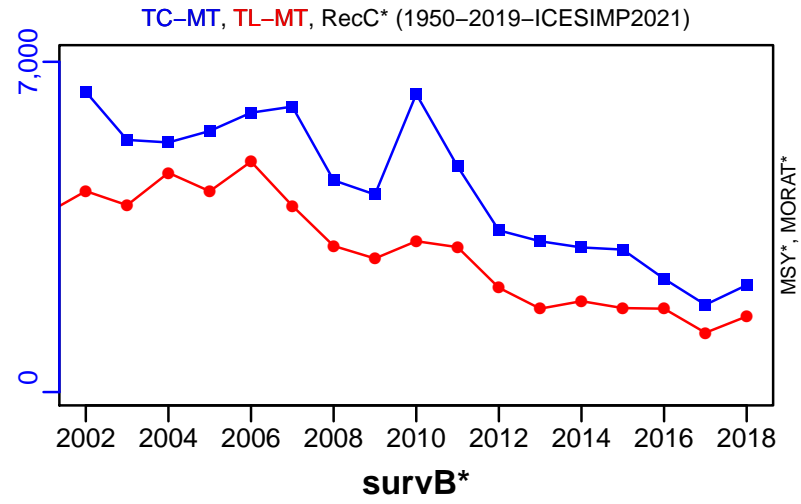


Recruits*



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

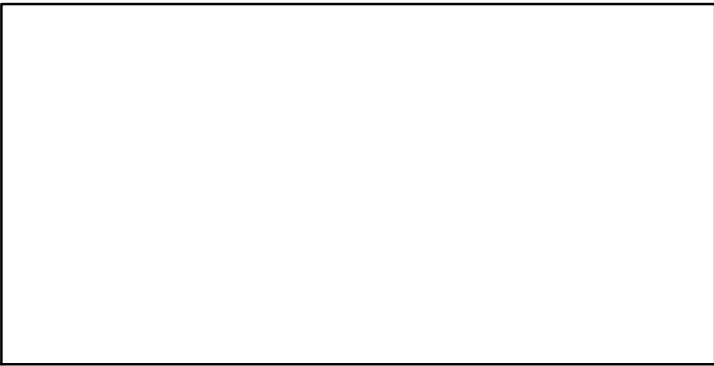
TC-MT, TL-MT, RecC* (1950-2019-ICESIMP2021)



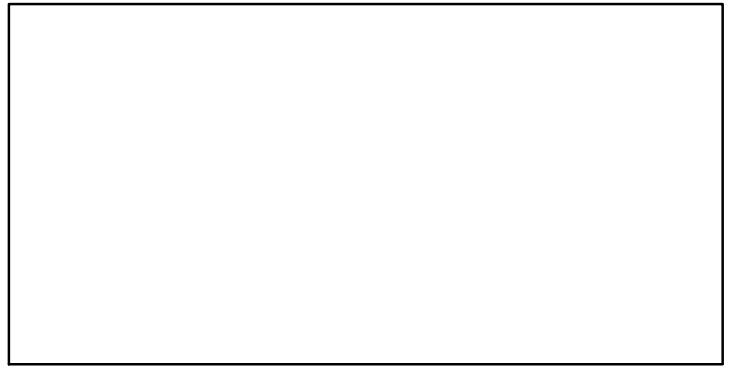
TAC*, Cpair*, Cadv*



survB*



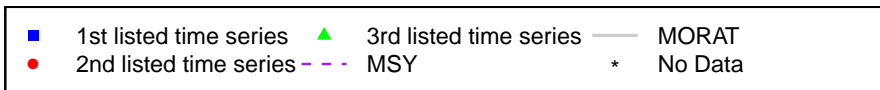
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGNSSK-EPOLLIV-IIIa-1977-2017-ICESIMP2018
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

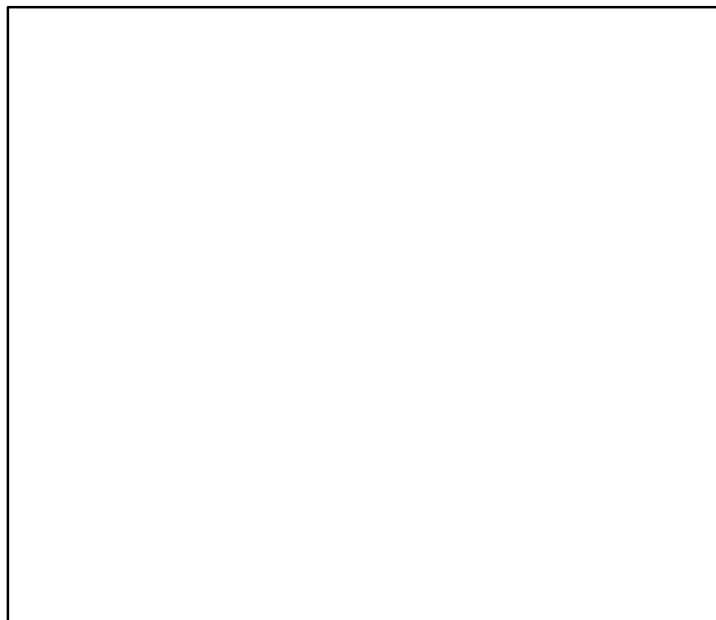
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	1910		
TL	TL-MT	2017	1900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



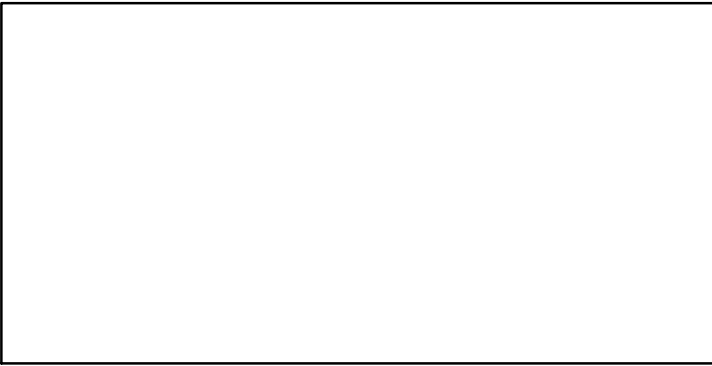
Production*



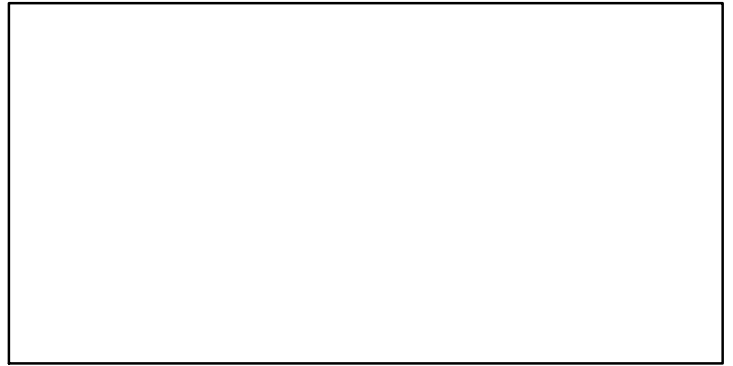
◆ Start Year ◆ End Year * No Data

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

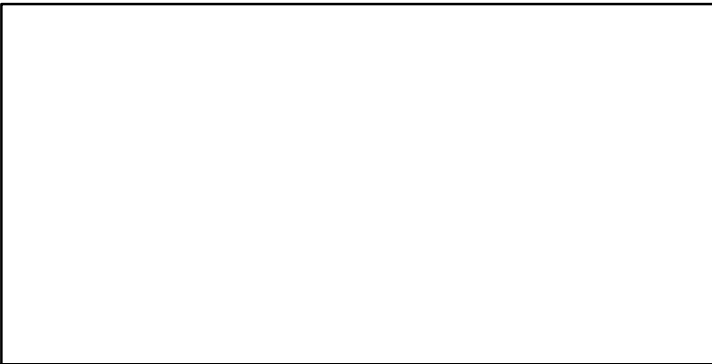
TB*



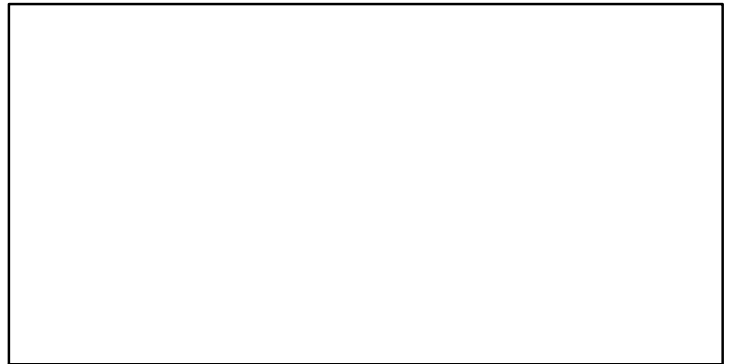
SSB*



TN *



F*



ER*

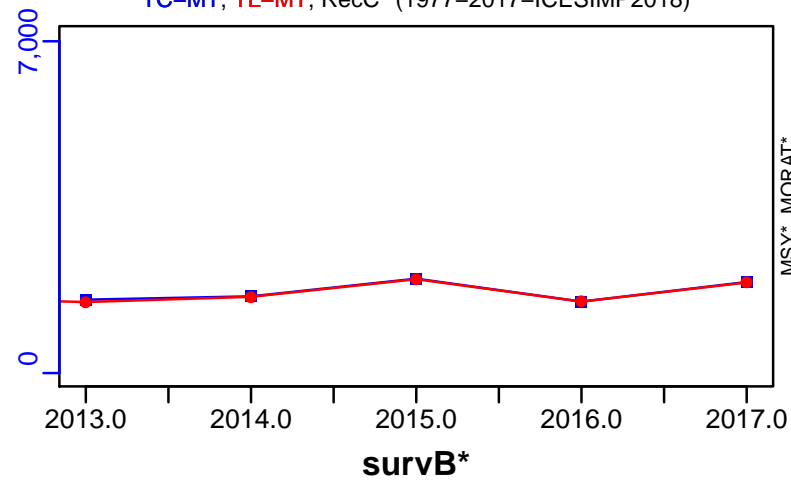


Recruits*



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

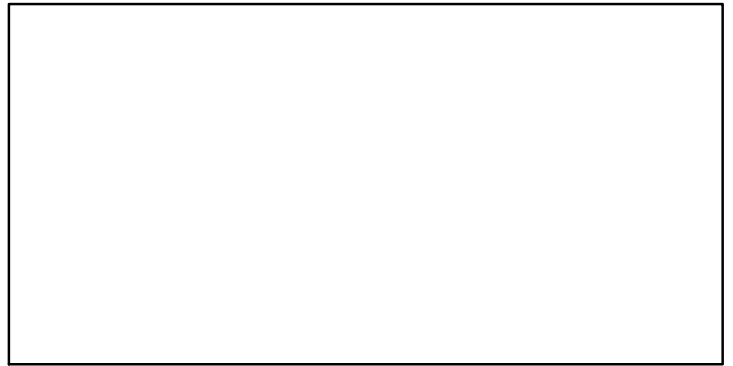
TC-MT, TL-MT, RecC* (1977-2017-ICESIMP2018)



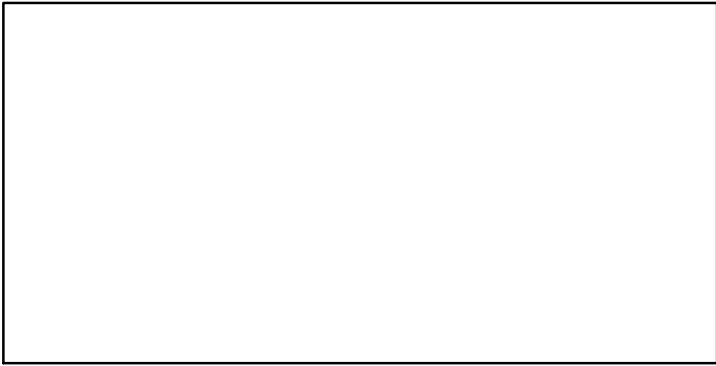
TAC*, Cpair*, Cadv*



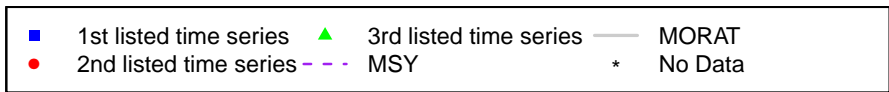
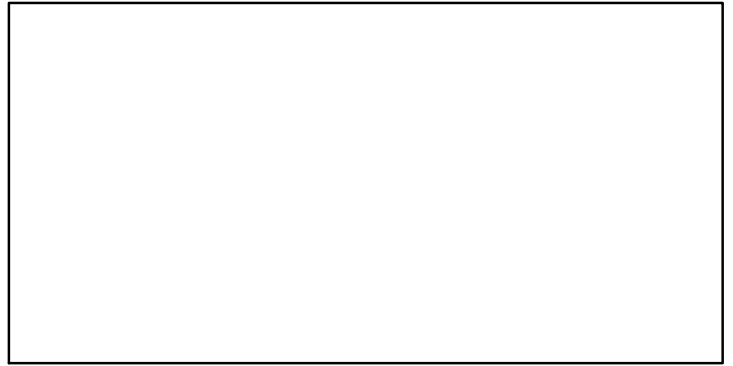
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGBIE-EPOLLVIII-IXa-1986-2018-ICESIMP2021
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 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	1512		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

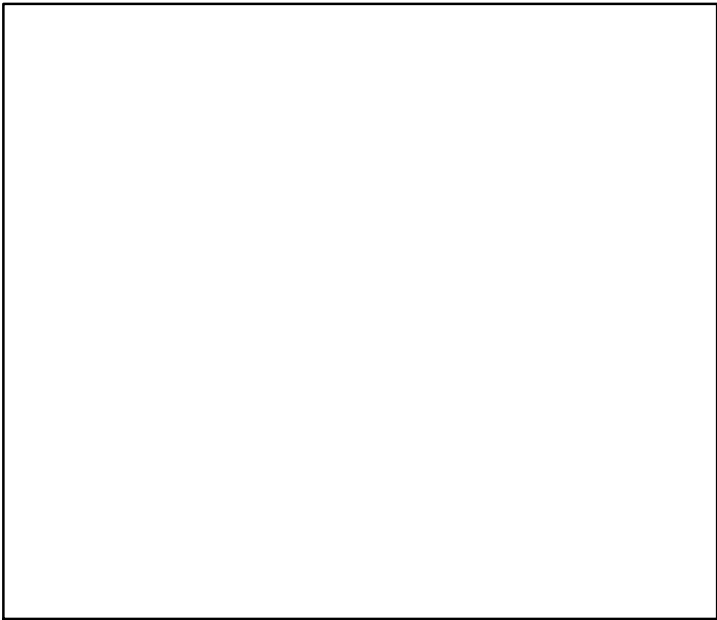
Kobe MSY*



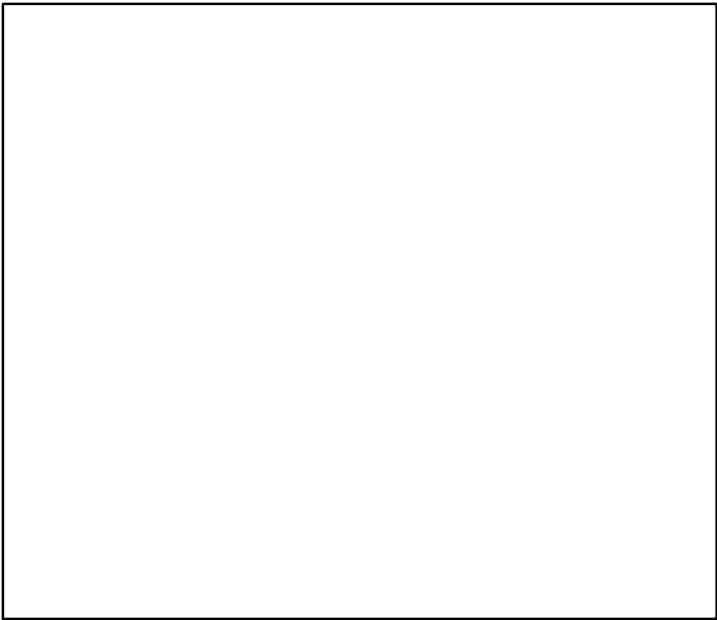
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



TN *



F*



ER*

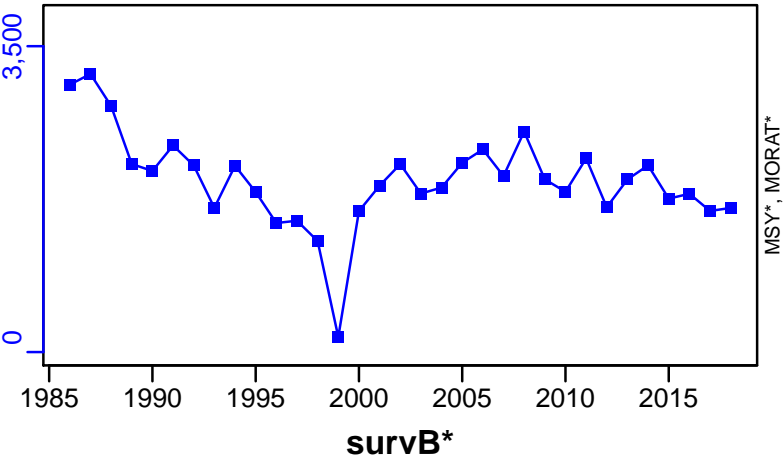


Recruits*



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

TL–MT, TC*, RecC* (1986–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Fourspotted megrim ICES 8c-9a [FMEG8c9a]

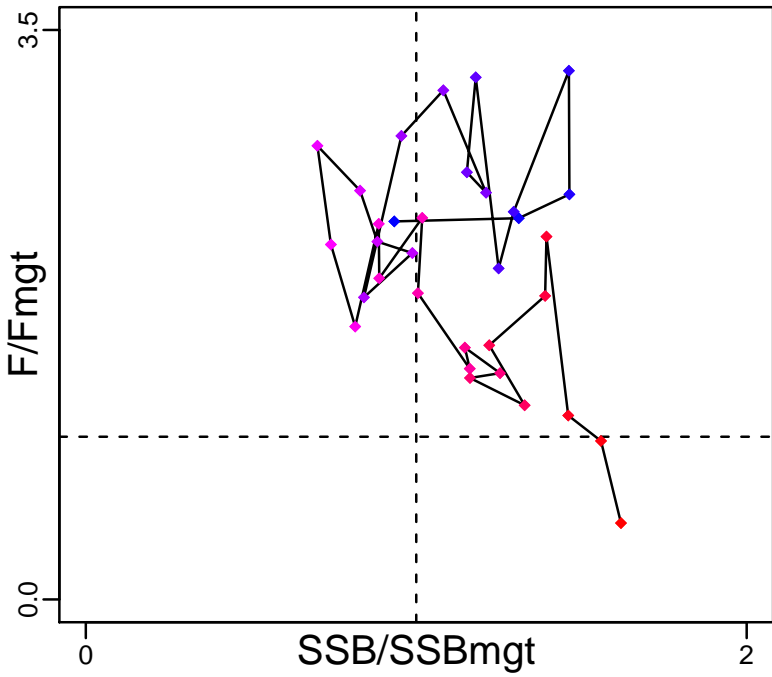
Metadata	
Scientific Name	Lepidorhombus bosci
Current Assess ID	WGBIE-FMEG8c9a-1986-2019-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	14,952
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.193
ERmsy	ERmsy-est-ratio	2019	0.328
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	4600
Fmgt	Fmgt-1/yr	2019	0.193
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	2138
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	3300
Flim	Flim-1/yr	2018	0.57
ERlim	-	-	-

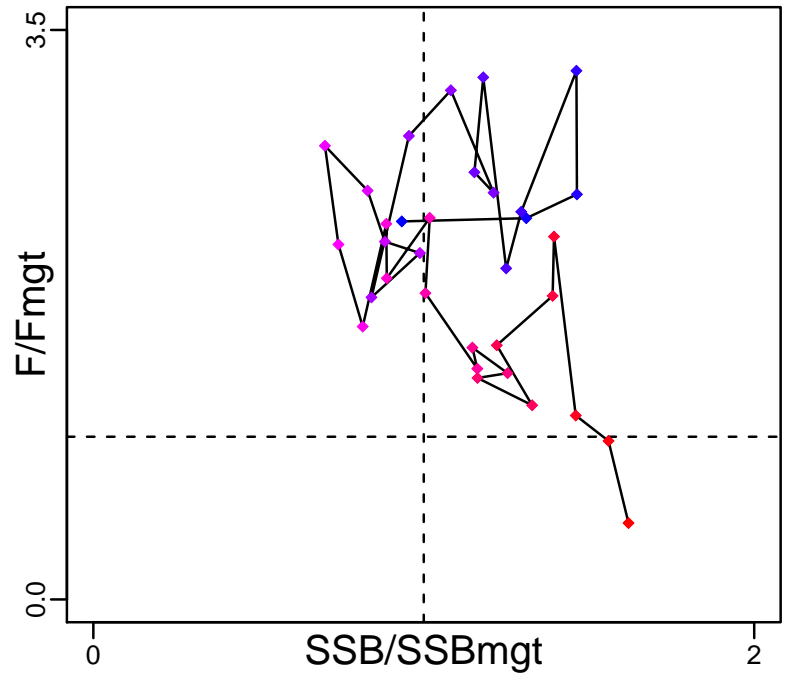
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	7878	-	-
SSB	SSB-MT	2019	8854	-	-
TN	-	-	-	-	-
R	R-E00	2019	45,233,000	-	0
F	F-1/yr	2019	0.091	-	2 to 4
ER	ER-calc-ratio	2019	0.115	-	-
TC	TC-MT	2019	906		
TL	TL-MT	2019	814		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.557		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.917		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.35		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.925		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.469		
ER/ERmgt	-	-	-		

Fourspotted megrim ICES 8c–9a [FMEG8c9a]

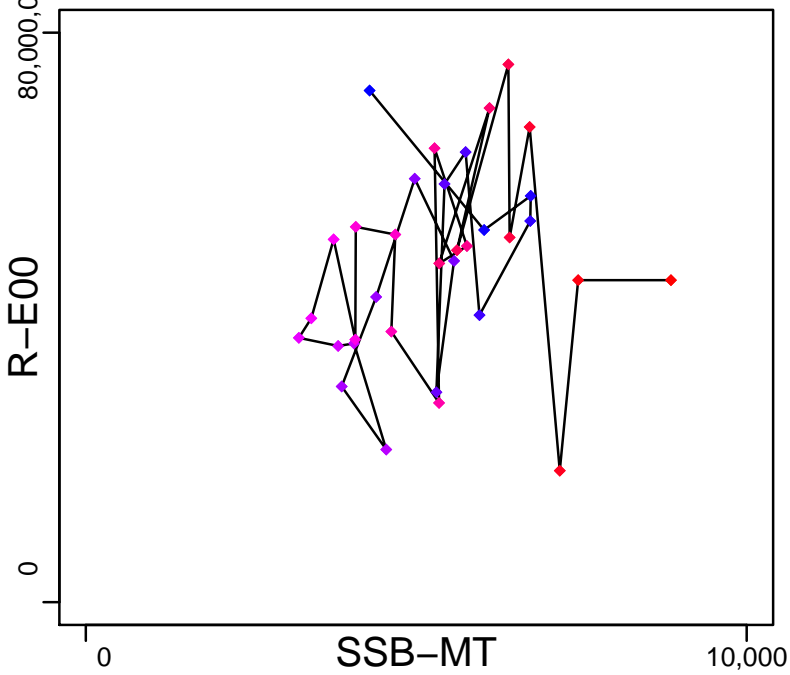
Kobe MSYpref (1986–2019–ICESIMP2021)



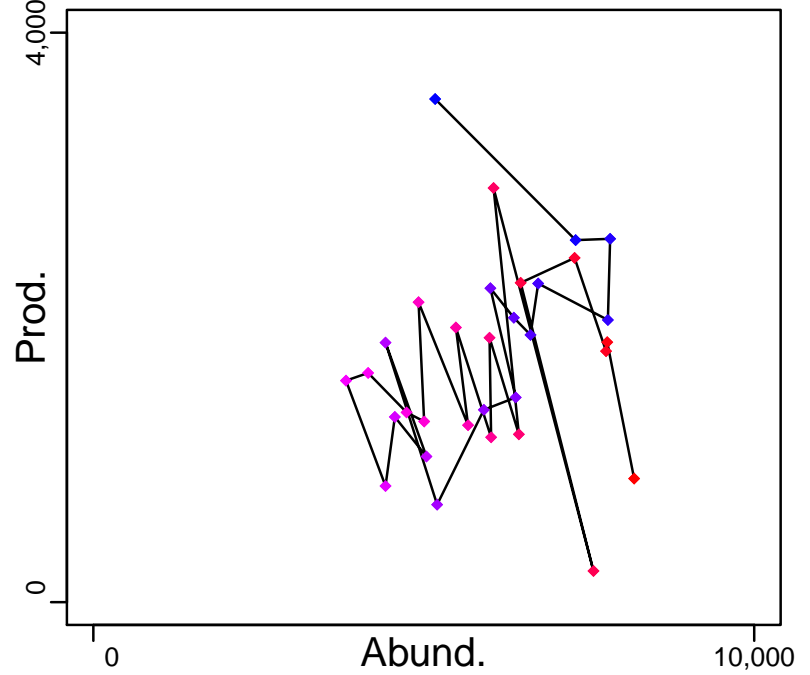
Kobe MGTpref (1986–2019–ICESIMP2021)



Spawner Recruit (1986–2019–ICESIMP2021)



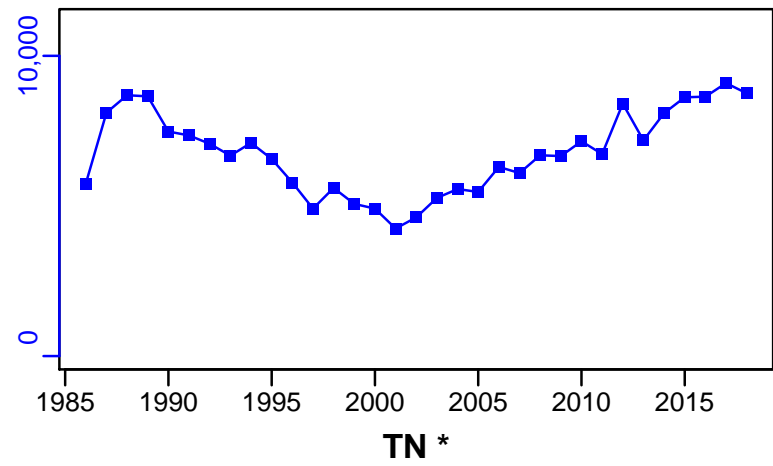
Production (1986–2019–ICESIMP2021)



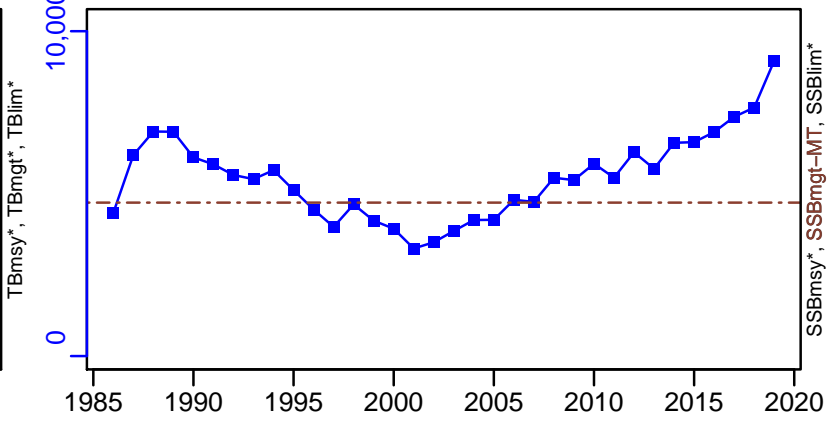
◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES 8c-9a [FMEG8c9a]

TB-MT (1986-2019-ICESIMP2021)



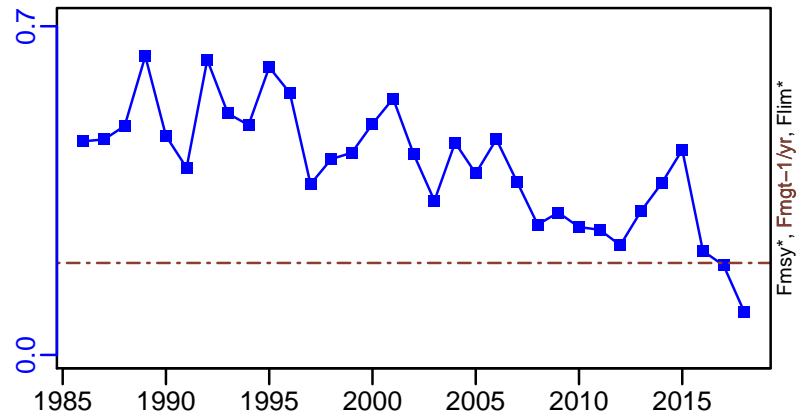
SSB-MT (1986-2019-ICESIMP2021)



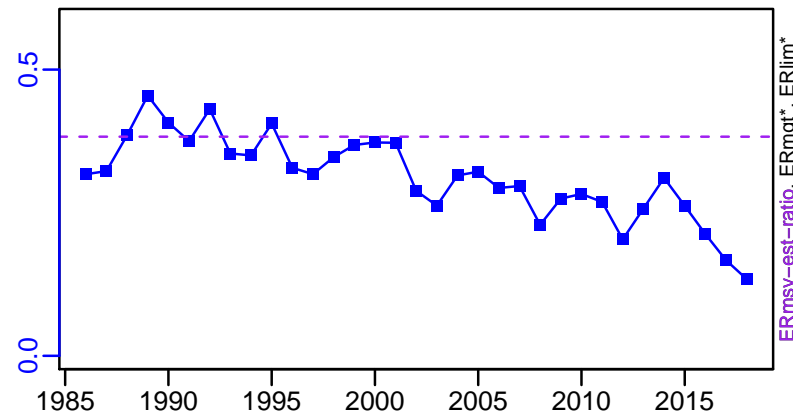
TN *



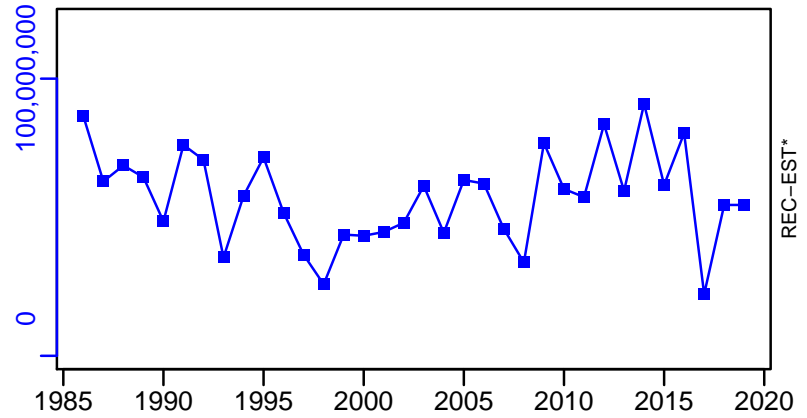
F-1/yr (1986-2019-ICESIMP2021)



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

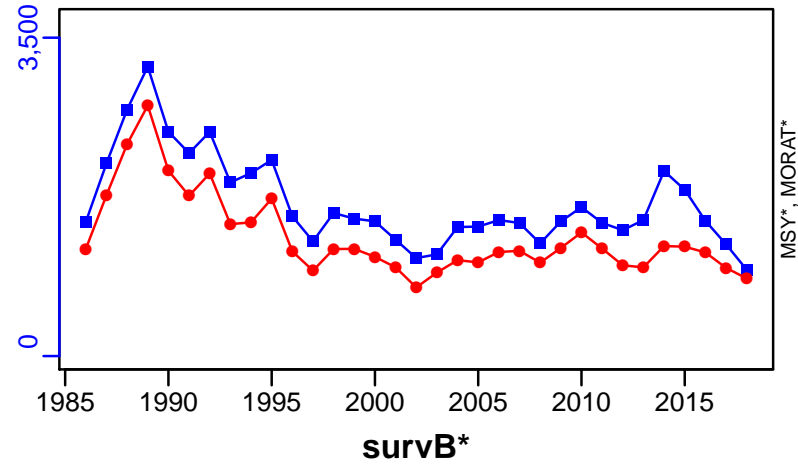


R-E00 (1986-2019-ICESIMP2021)



Fourspotted megrim ICES 8c-9a [FMEG8c9a]

TC-MT, TL-MT, RecC* (1986-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



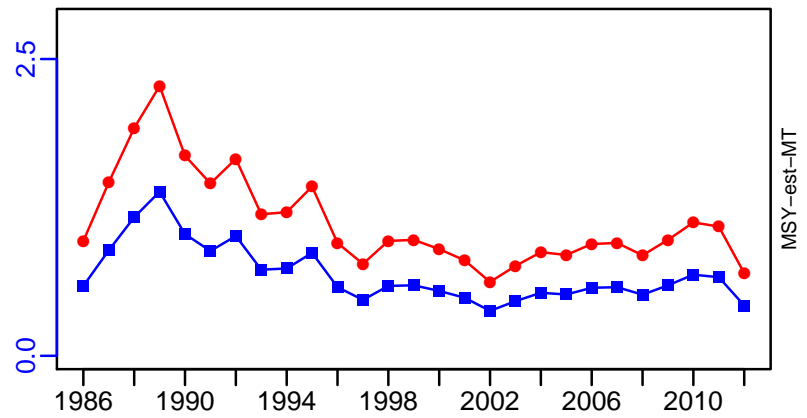
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1986-2013-ICESIMP2016)



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

Greater forkbeard Northeast Atlantic [GFORKNEATL]

Metadata	
Scientific Name	Phycis blennoides
Current Assess ID	WGDEEP-GFORKNEATL-2005-2017-ICESIMP2018
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

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	2020		
TL	TL-MT	2017	1500		
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*

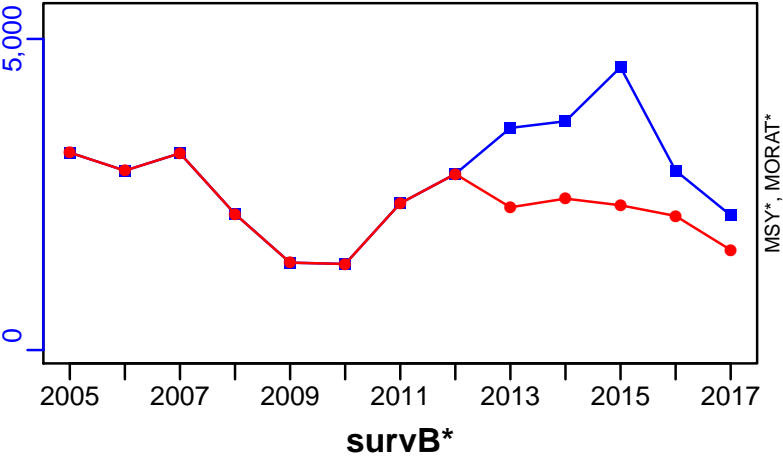


Recruits*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

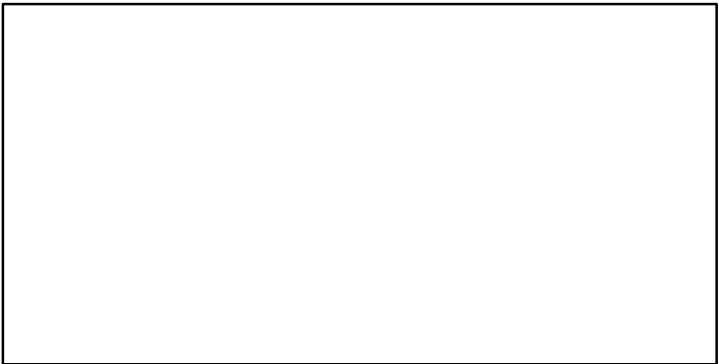
TC-MT, TL-MT, RecC* (2005–2017–ICESIMP2018)



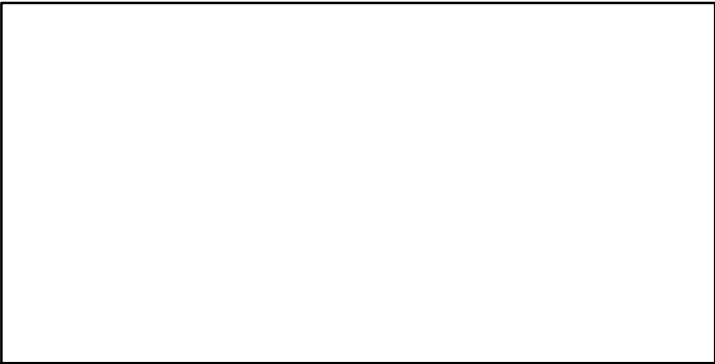
TAC*, Cpair*, Cadv*



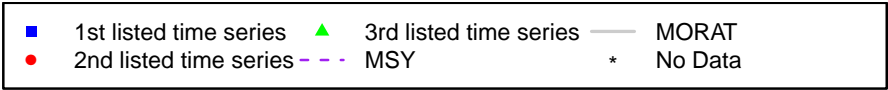
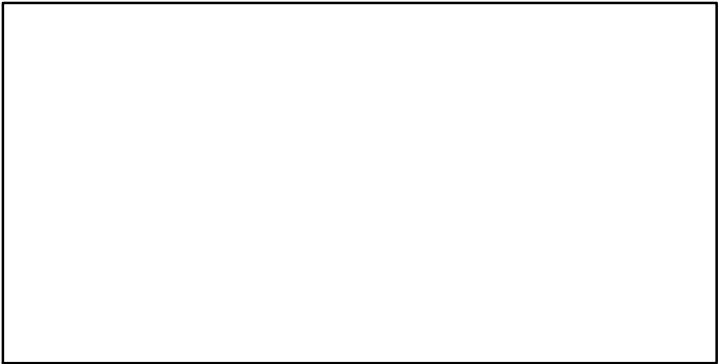
CPUE*



EFFORT*



CdivMSY*



Grey gurnard ICES 3a-4-7d [GGURNIIIa-IV-VIId]

Metadata	
Scientific Name	Eutrigla gurnardus
Current Assess ID	WGNSSK-GGURNIIIa-IV-VIId-1983-2017-ICESIMP2018
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 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	2017	17,100		
TL	TL-MT	2017	3450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

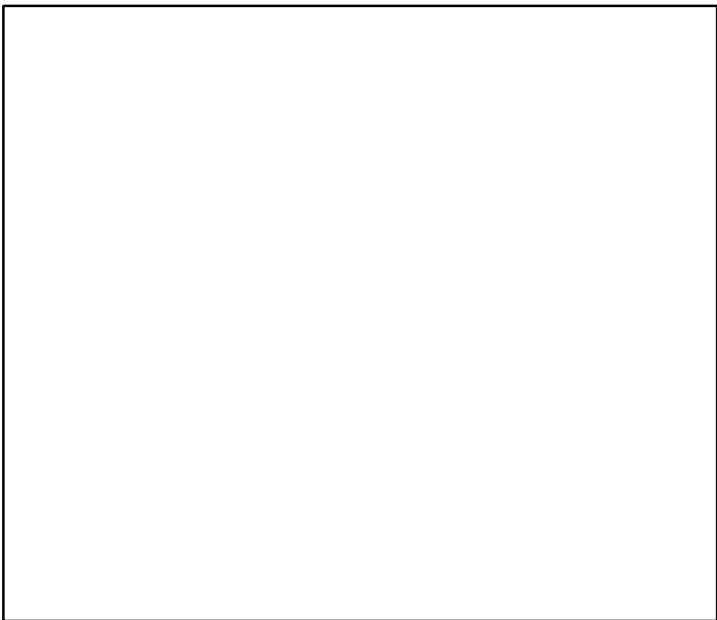
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

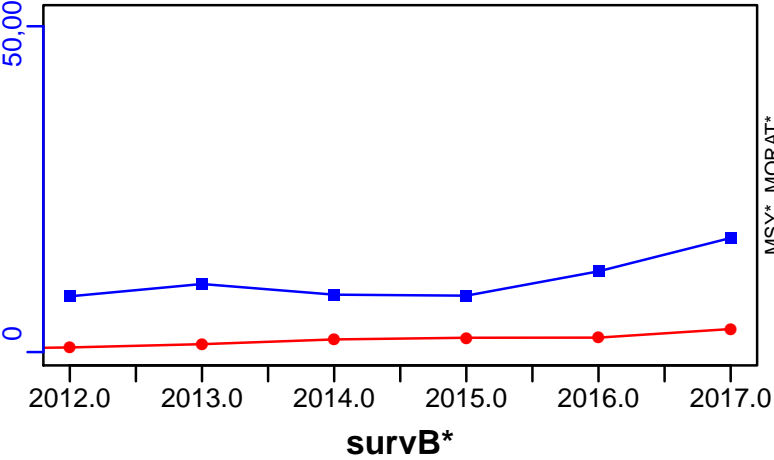


Recruits*



Grey gurnard ICES 3a–4–7d [GGURNIIIa–IV–VIIId]

TC–MT, TL–MT, RecC* (1983–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

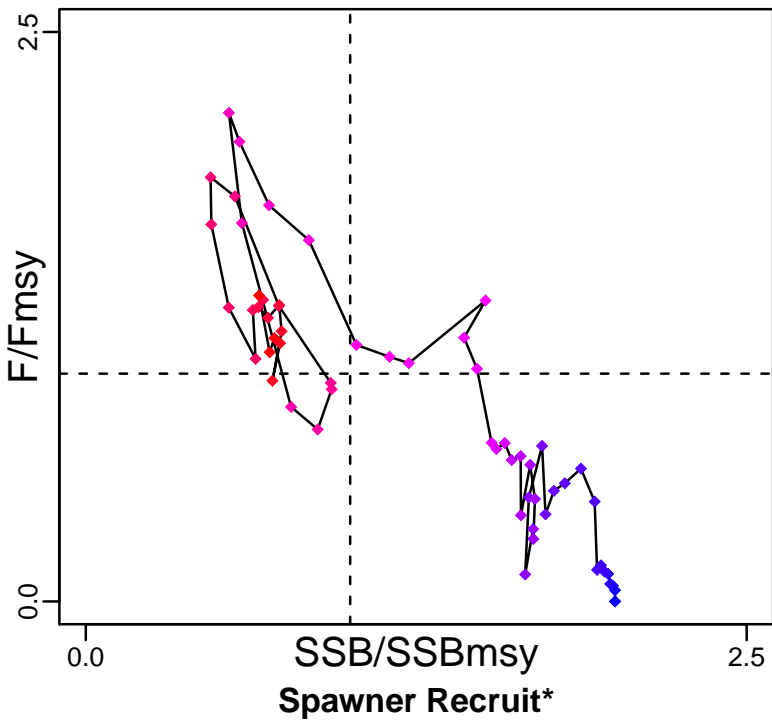
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NWWG-GHALV-VI-XII-XIV-1960-2019-ICESIMP2021
Area	ICES 5-6-12-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018,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

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

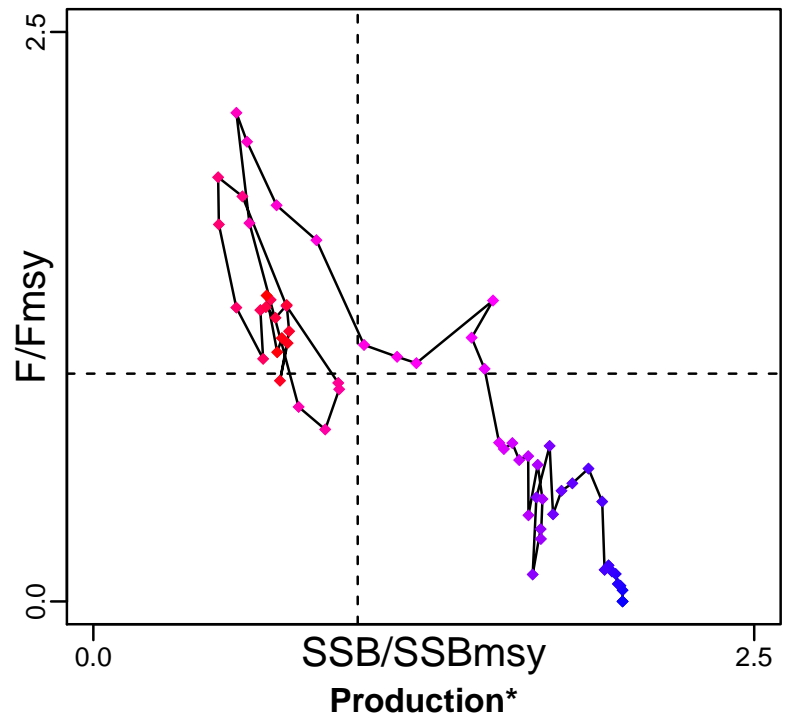
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	23,500		
TL	TL-MT	2019	27,141		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	0.657		
F/Fmsy	FdivFmsy-dimensionless	2019	1.343		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1960–2019–ICESIMP2021)



Kobe MGTpref (1960–2019–ICESIMP2021)



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

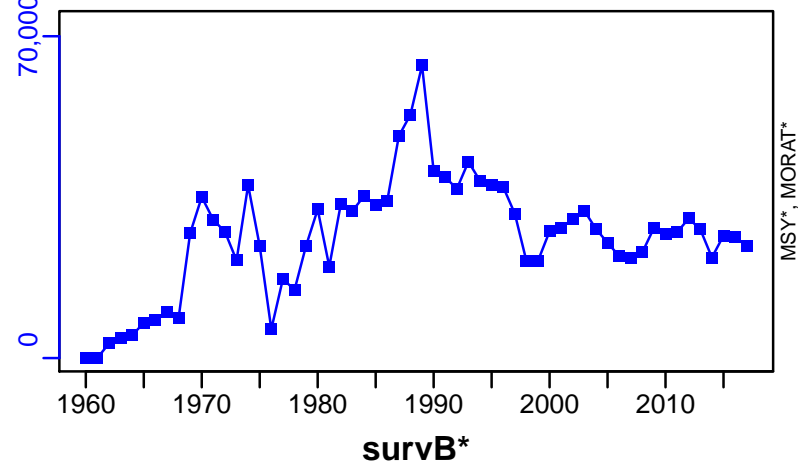


Recruits*



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

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



TAC*, Cpair*, Cadv*



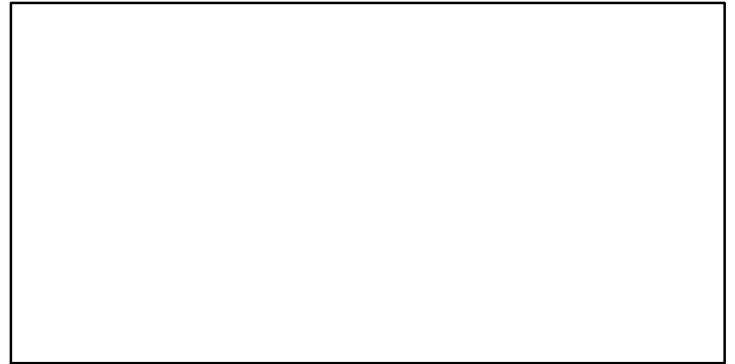
CPUE*



EFFORT*



CdivMSY*



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

Golden redfish ICES 5-6-12-14 [GOLDREDV-VI-XII-XIV]

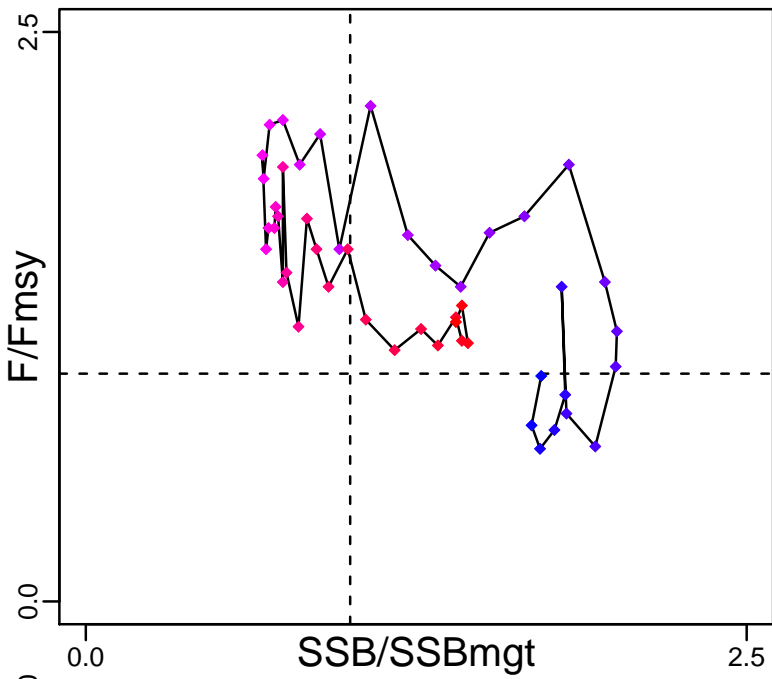
Metadata	
Scientific Name	Sebastes norvegicus
Current Assess ID	NWWG-GOLDREDV-VI-XII-XIV-1966-2018-ICESIMP2018
Area	ICES 5-6-12-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2014, 2017, 2018, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.097
ERmsy	ERmsy-est-ratio	2018	0.085
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	220,000
Fmgt	Fmgt-1/yr	2018	0.097
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	160,000
Flim	Flim-1/yr	2018	0.226
ERlim	-	-	-

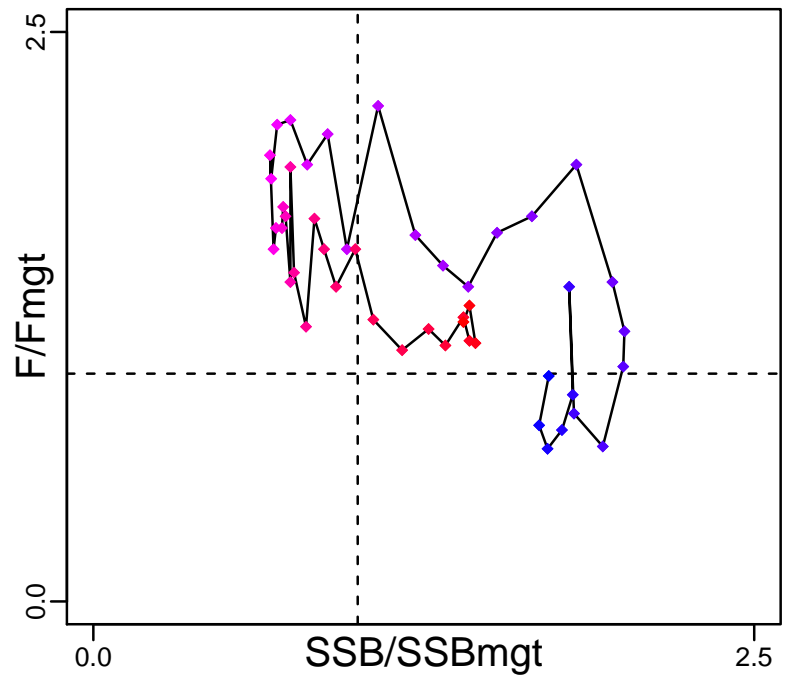
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	434,000	Both	-
SSB	SSB-MT	2018	296,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.5×10^7	-	5
F	F-1/yr	2018	0.119	-	9 to 19
ER	ER-calc-ratio	2018	0.122	-	-
TC	TC-MT	2018	56,000		
TL	TL-MT	2018	56,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.227		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	1.437		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.345		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.227		
ER/ERmgt	-	-	-		

Golden redfish ICES 5-6-12-14 [GOLDREDV-VI-XII-XIV]

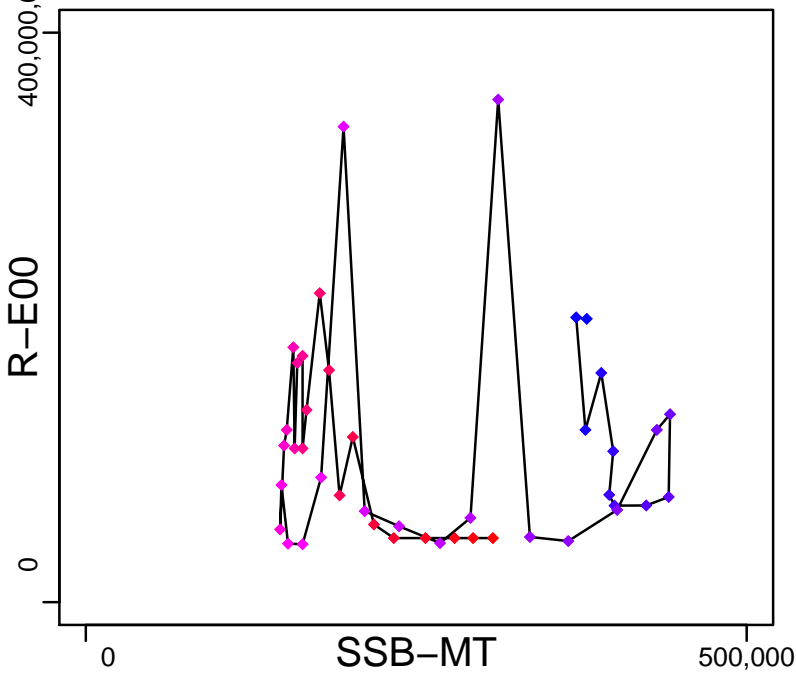
Kobe MSYpref (1966-2018-ICESIMP2018)



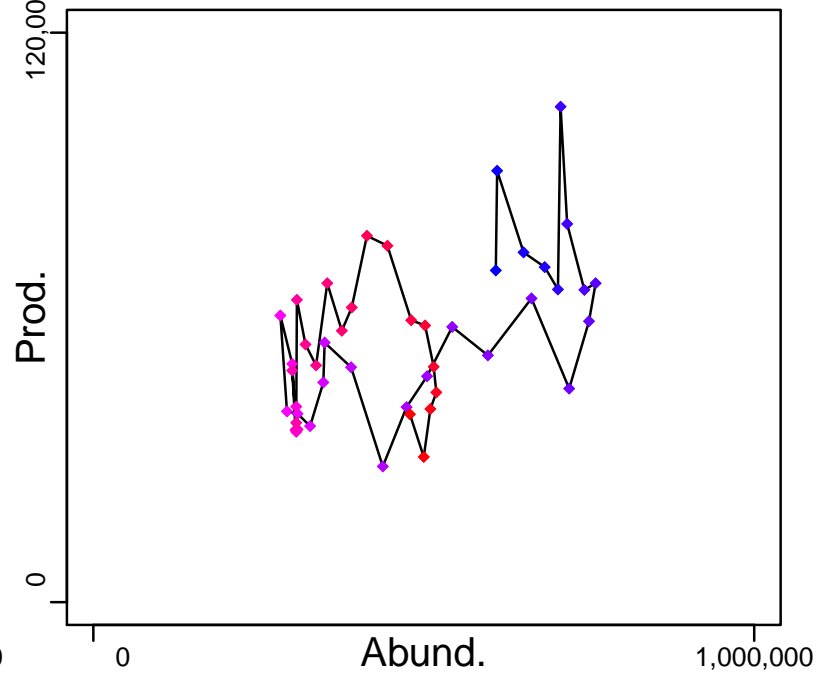
Kobe MGTpref (1966-2018-ICESIMP2018)



Spawner Recruit (1966-2018-ICESIMP2018)



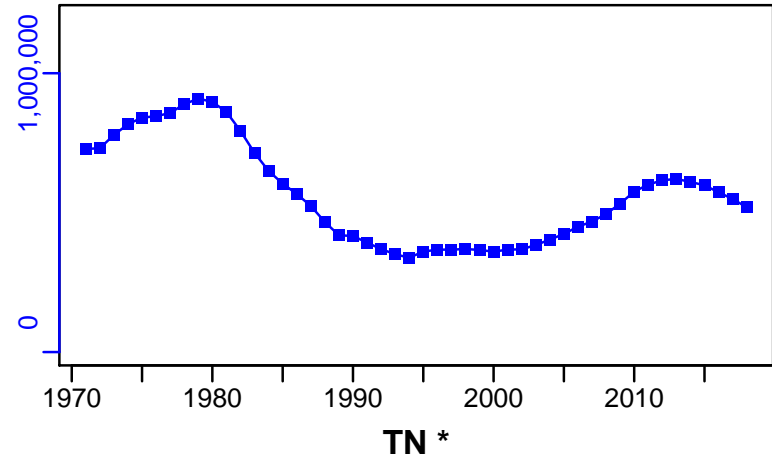
Production (1966-2018-ICESIMP2018)



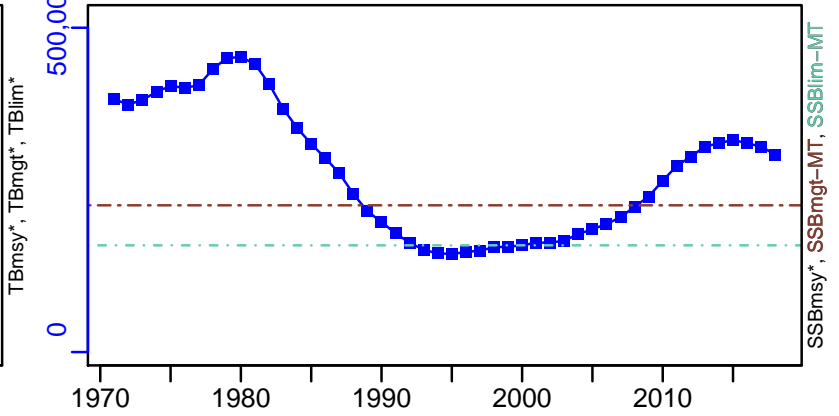
◆ Start Year ◆ End Year * No Data

Golden redfish ICES 5–6–12–14 [GOLDREDV–VI–XII–XIV]

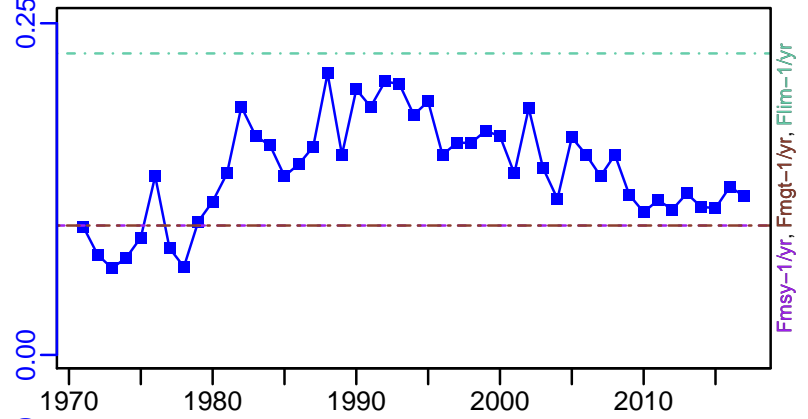
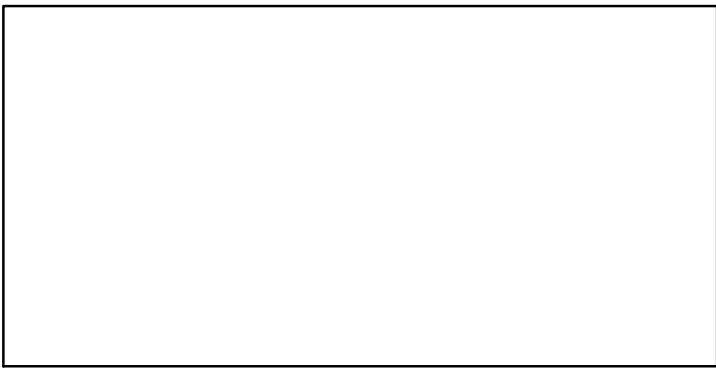
TB–MT (1966–2018–ICESIMP2018)



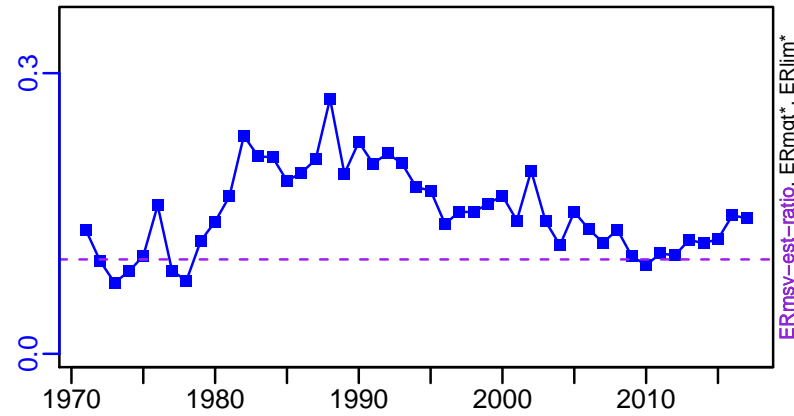
SSB–MT (1966–2018–ICESIMP2018)



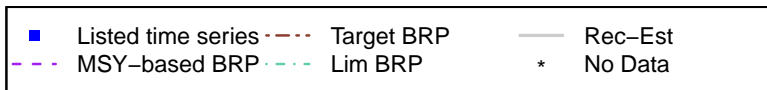
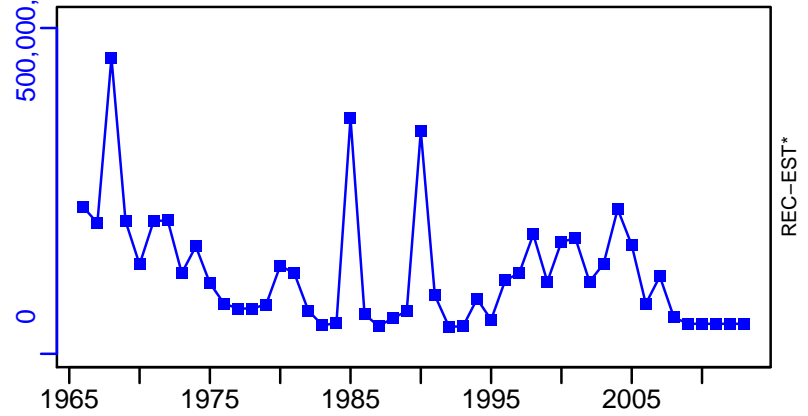
F–1/yr (1966–2018–ICESIMP2018)



ER–calc–ratio (1966–2018–ICESIMP2018)



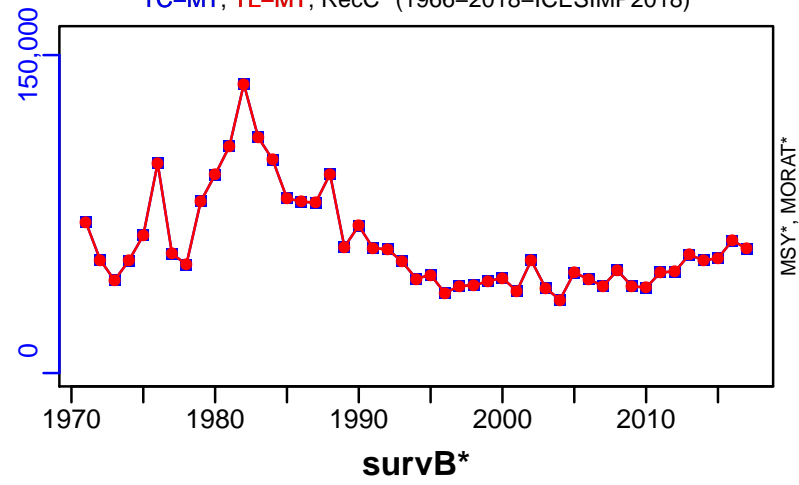
R–E00 (1966–2018–ICESIMP2018)



Golden redfish ICES 5–6–12–14 [GOLDREDV–VI–XII–XIV]

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

TAC*, Cpair*, Cadv*



Greater silver smelt ICES 1-2-3a-4 [GSSMELTI-II-IIIa-IV]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTI-II-IIIa-IV-1988-2018-ICESIMP2021
Area	ICES 1-2-3a-4
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

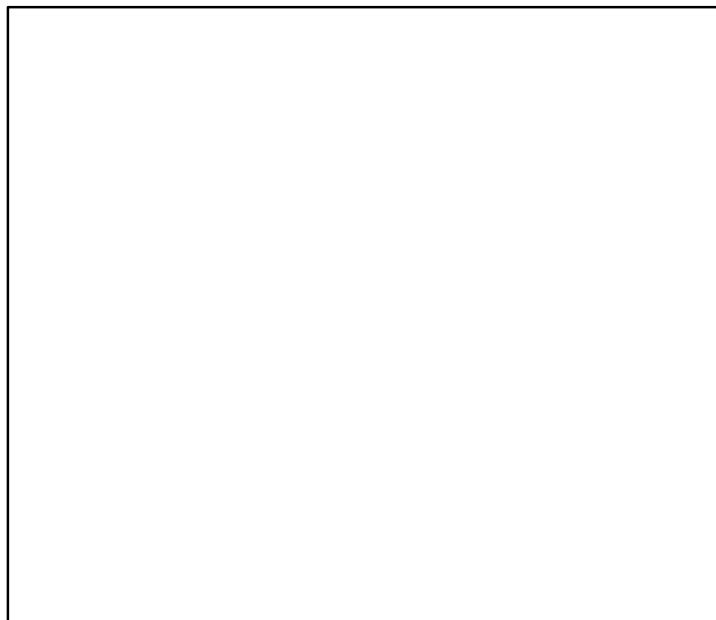
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	15,100		
TL	TL-MT	2018	23,859		
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*

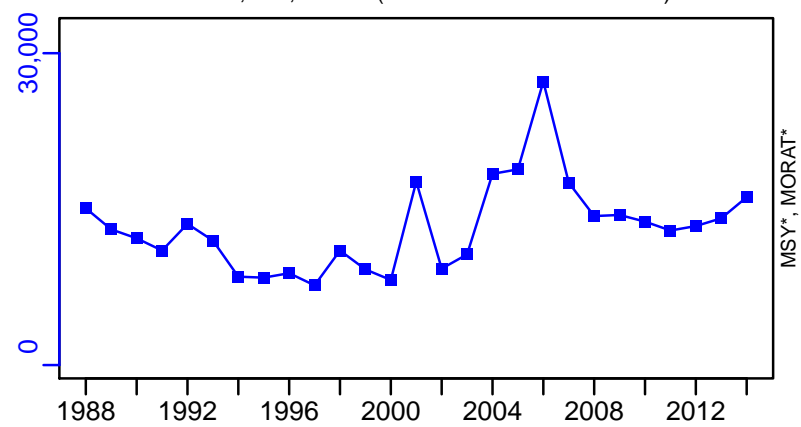


Recruits*



Greater silver smelt ICES 1–2–3a–4 [GSSMELTI–II–IIIa–IV]

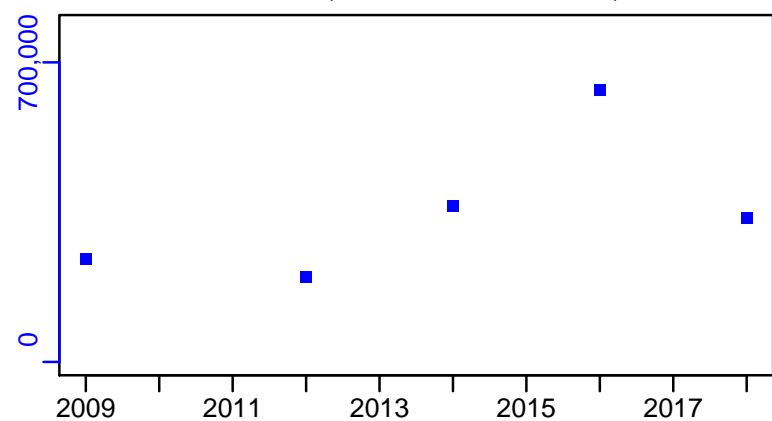
TC–MT, TL*, RecC* (1988–2014–ICESIMP2018)



TAC*, Cpair*, Cadv*



survB–MT (1988–2018–ICESIMP2021)



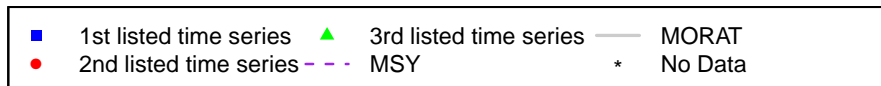
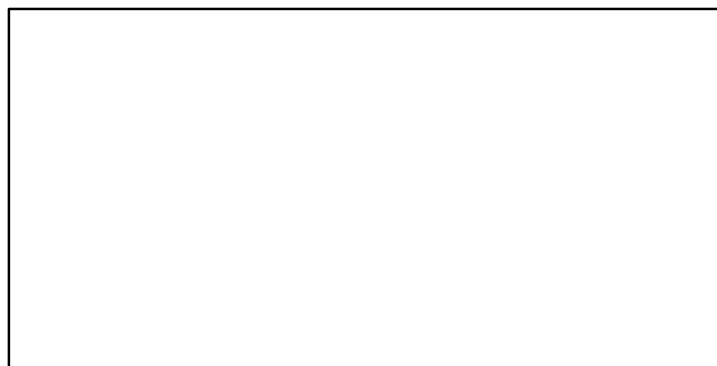
CPUE*



EFFORT*



CdivMSY*



Greater silver smelt ICES 6b-7-8-9-10-12 [GSSMELTVIb-VII-VIII-IX-X-XII]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTVIb-VII-VIII-IX-X-XII-1973-2018-ICESIMP2021
Area	ICES 6b-7-8-9-10-12
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	2014, 2016, 2018

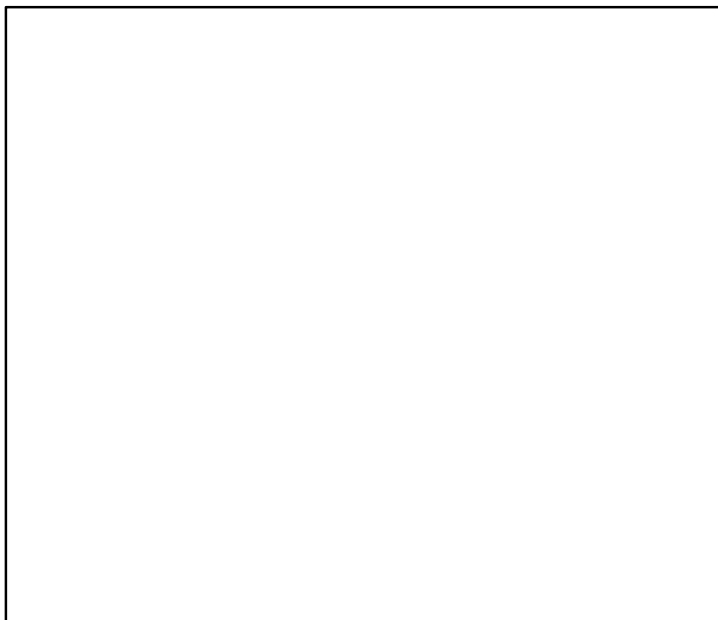
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	140		
TL	TL-MT	2018	36		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

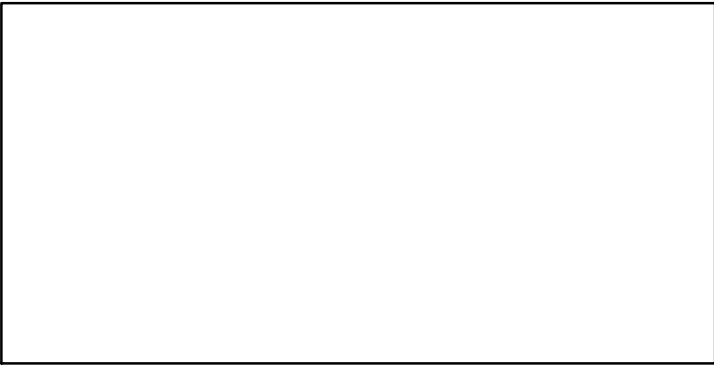


Production*

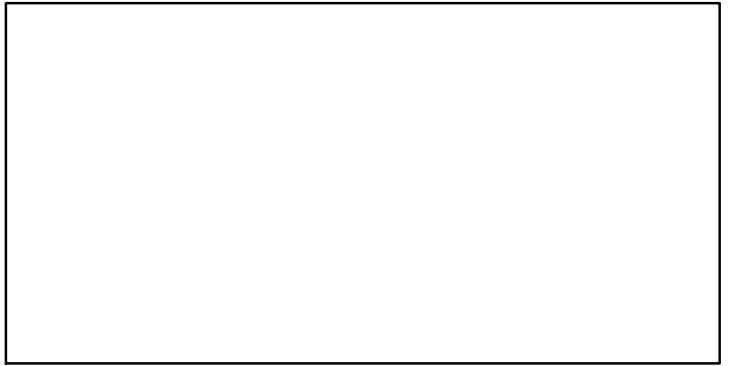


◆ Start Year ◆ End Year * No Data

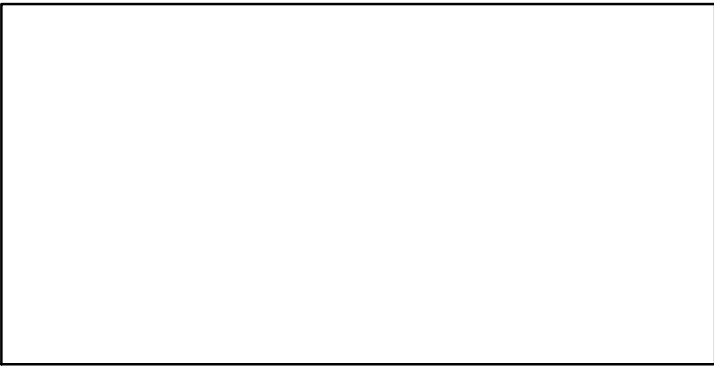
TB*



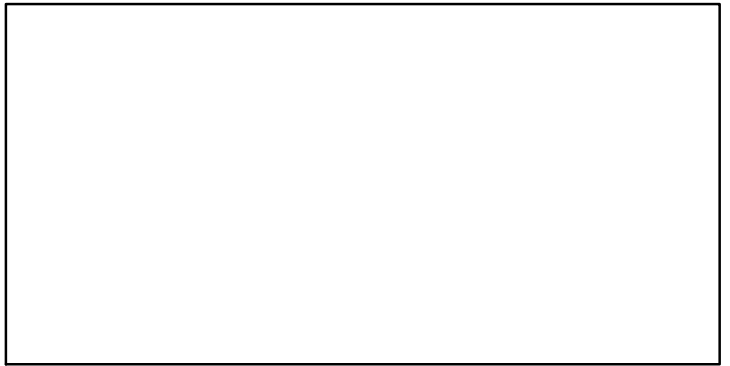
SSB*



TN *



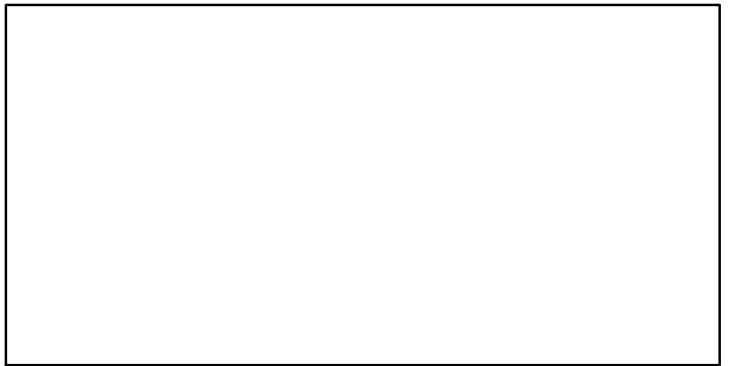
F*



ER*

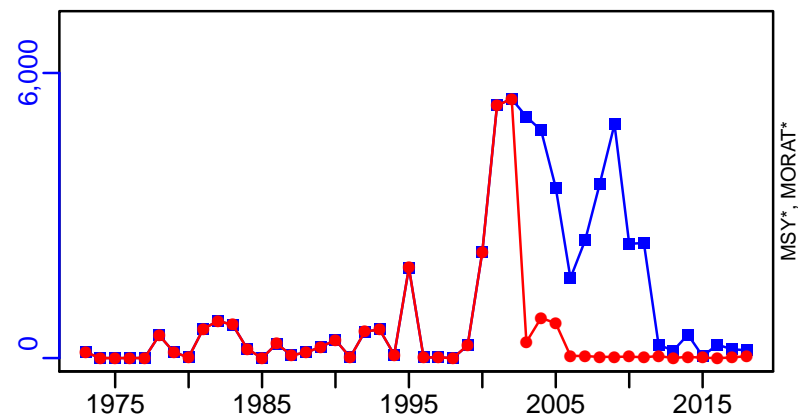


Recruits*



Greater silver smelt ICES 6b-7-8-9-10-12 [GSSMELTVIb-VII-VIII-IX-X-XII]

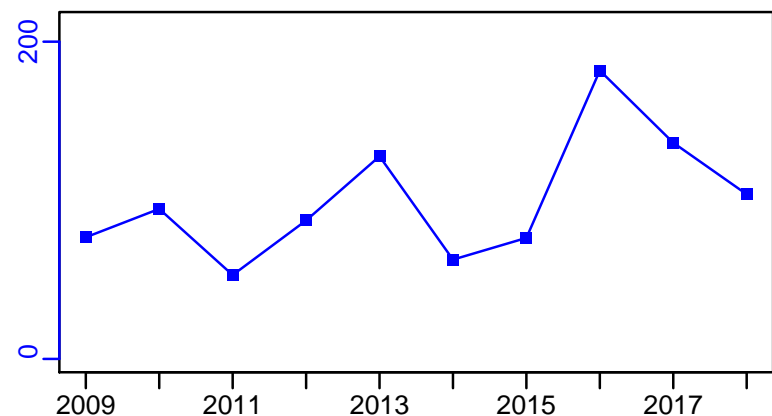
TC-MT, TL-MT, RecC* (1973-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



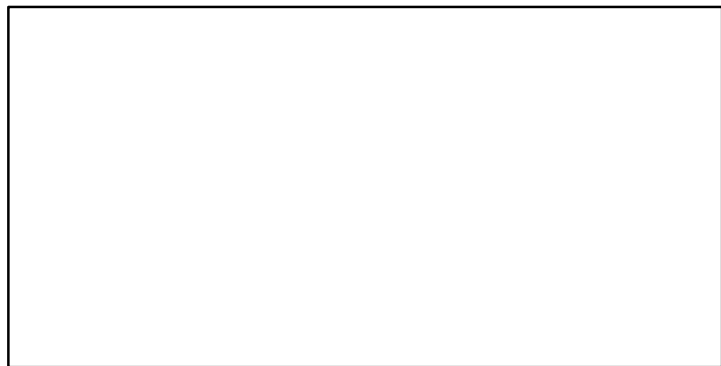
survB-index (1973-2018-ICESIMP2021)



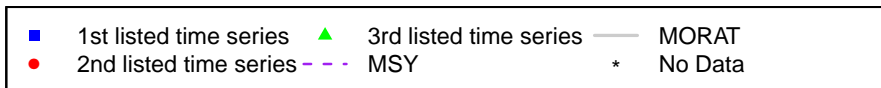
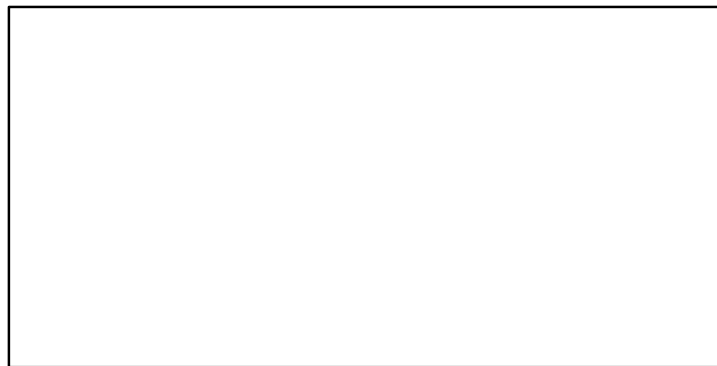
CPUE*



EFFORT*



CdivMSY*



Haddock Irish Sea [HADIS]

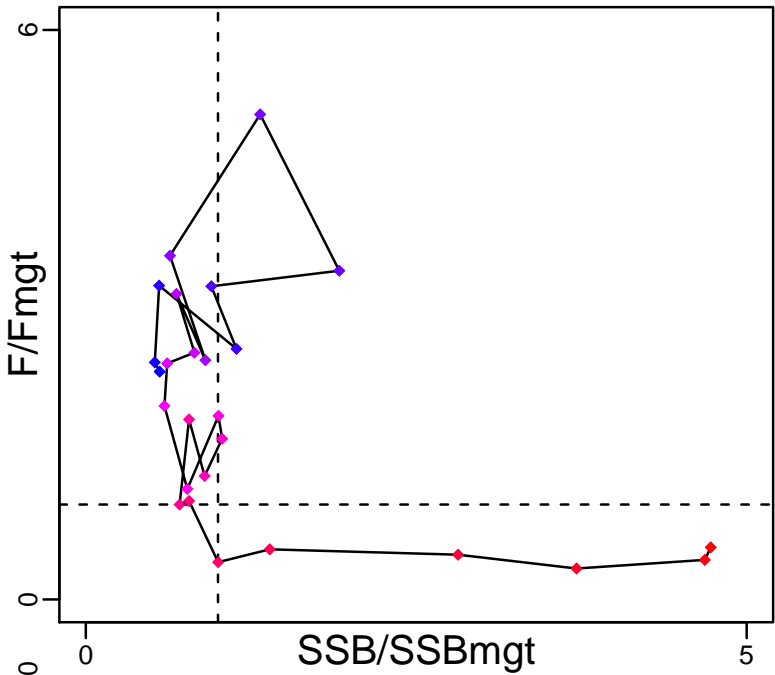
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADIS-1993-2019-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2016, 2017, 2019, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.27
ERmsy	ERmsy-est-ratio	2019	0.712
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	4281
Fmgt	Fmgt-1/yr	2019	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	2300
Flim	Flim-1/yr	2017	0.47
ERlim	-	-	-

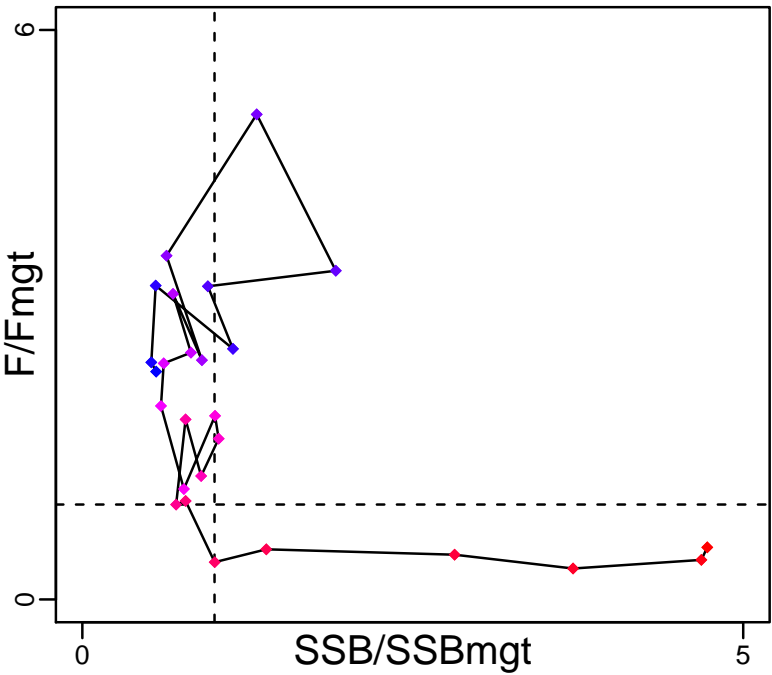
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	28,668	-	-
SSB	SSB-MT	2019	18,945	-	-
TN	-	-	-	-	-
R	R-E00	2019	357,134,000	-	0
F	F-1/yr	2019	0.154	-	2 to 4
ER	ER-calc-ratio	2019	0.089	-	-
TC	TC-MT	2019	2561		
TL	TL-MT	2019	1993		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.393		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.125		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	4.425		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.549		
ER/ERmgt	-	-	-		

Haddock Irish Sea [HADIS]

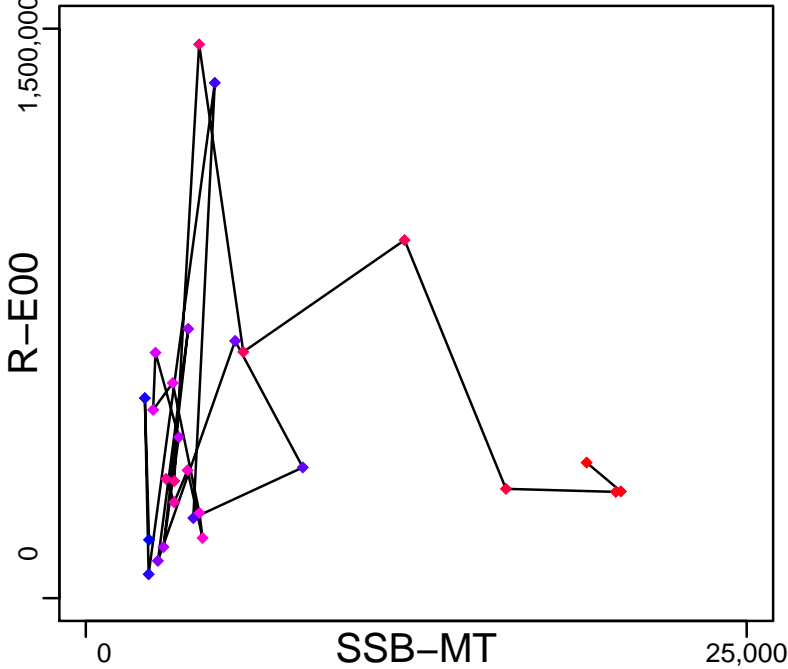
Kobe MSYpref (1993–2019–ICESIMP2021)



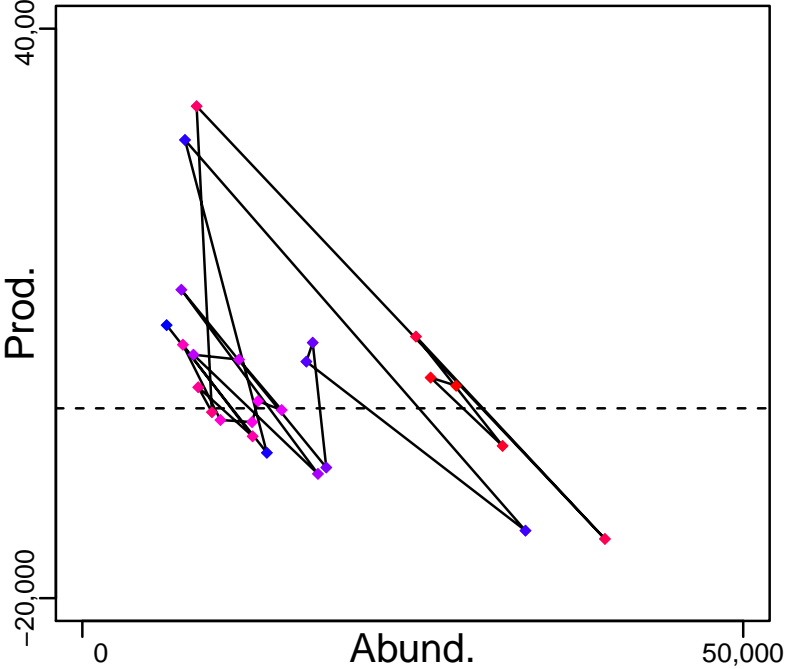
Kobe MGTpref (1993–2019–ICESIMP2021)



Spawner Recruit (1993–2019–ICESIMP2021)



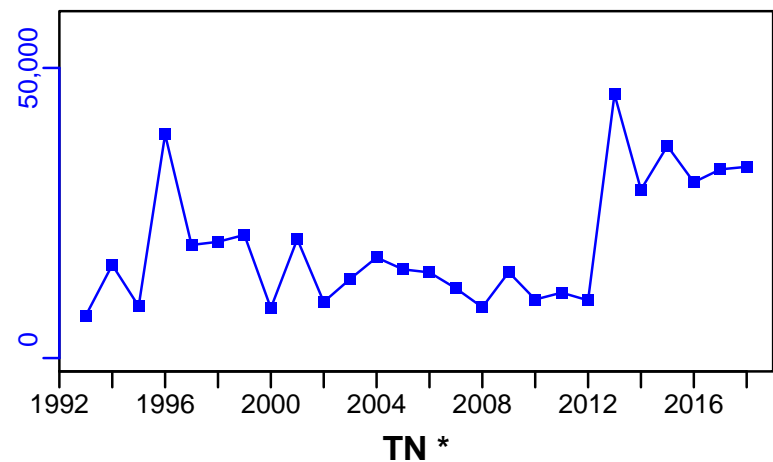
Production (1993–2019–ICESIMP2021)



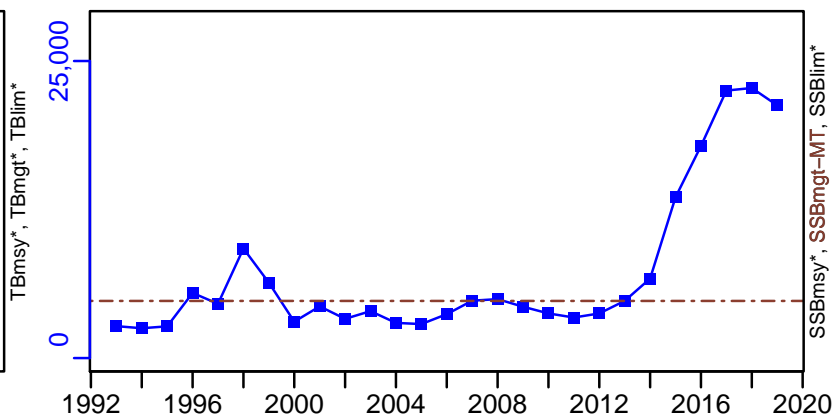
◆ Start Year ◆ End Year * No Data

Haddock Irish Sea [HADIS]

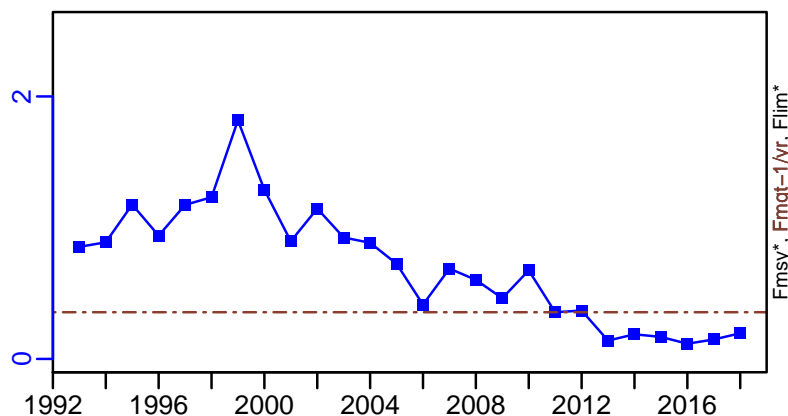
TB-MT (1993–2019–ICESIMP2021)



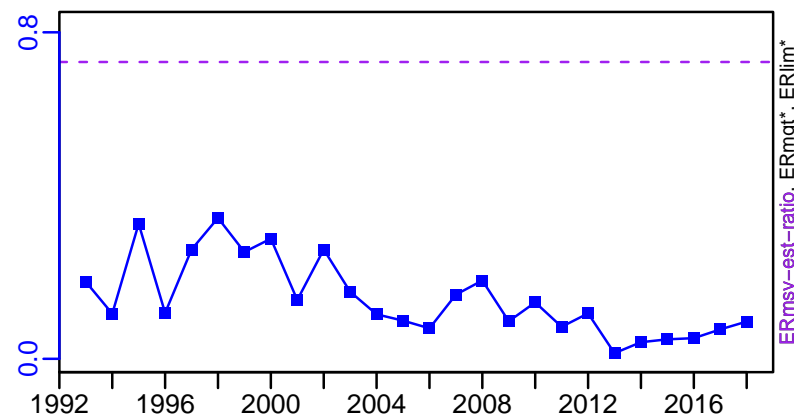
SSB-MT (1993–2019–ICESIMP2021)



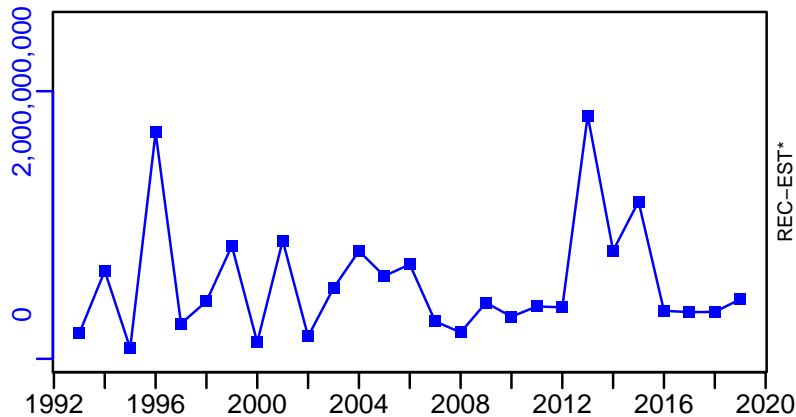
F-1/yr (1993–2019–ICESIMP2021)



ER-calc-ratio (1993–2019–ICESIMP2021)

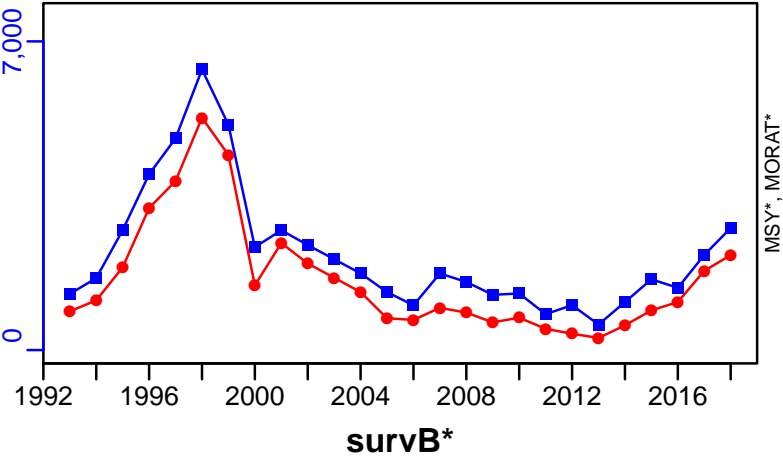


R-E00 (1993–2019–ICESIMP2021)



Haddock Irish Sea [HADIS]

TC-MT, TL-MT, RecC* (1993–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

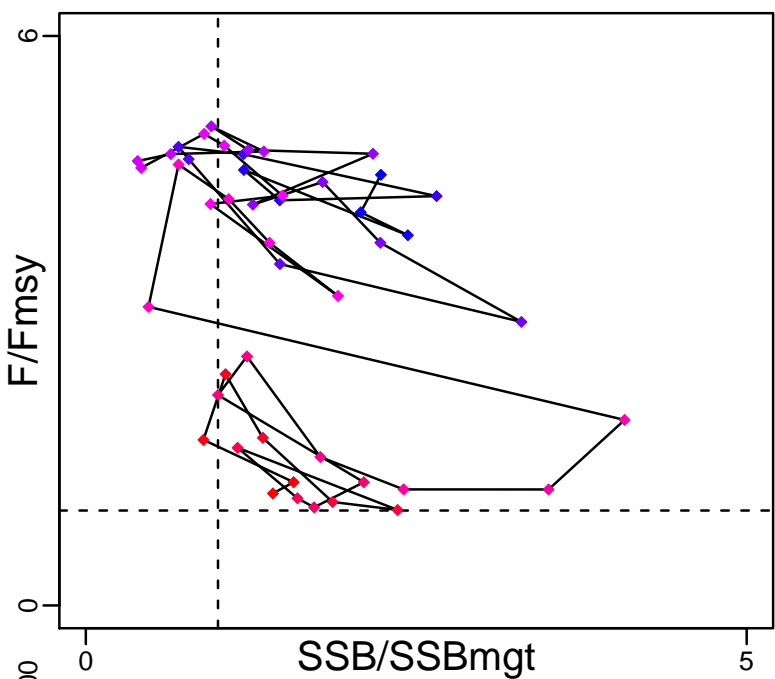
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGNSSK-HADNS-IIIa-VIa-1972-2019-ICESIMP2021
Area	ICES 3a-4-6a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2015, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.19
ERmsy	ERmsy-est-ratio	2019	0.008
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	132,000
Fmgt	Fmgt-1/yr	2019	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	94,000
Flim	Flim-1/yr	2018	0.39
ERlim	-	-	-

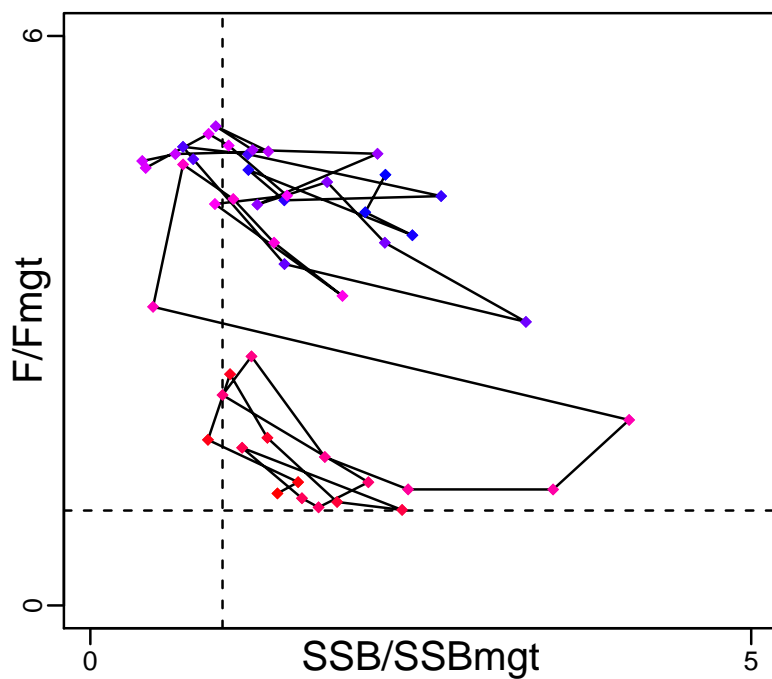
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	509,663	-	-
SSB	SSB-MT	2019	236,941	-	-
TN	-	-	-	-	-
R	R-E00	2019	2.03×10^{10}	-	0
F	F-1/yr	2019	0.224	-	2 to 4
ER	ER-calc-ratio	2019	0.095	-	-
TC	TC-MT	2019	39,524		
TL	TL-MT	2019	34,470		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.18		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	11.474		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.795		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.18		
ER/ERmgt	-	-	-		

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

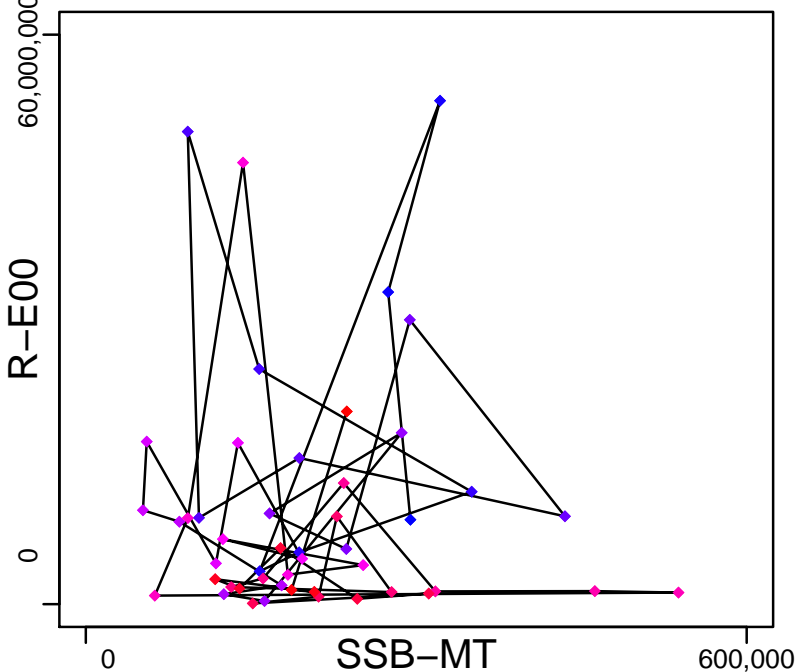
Kobe MSYpref (1972-2019-ICESIMP2021)



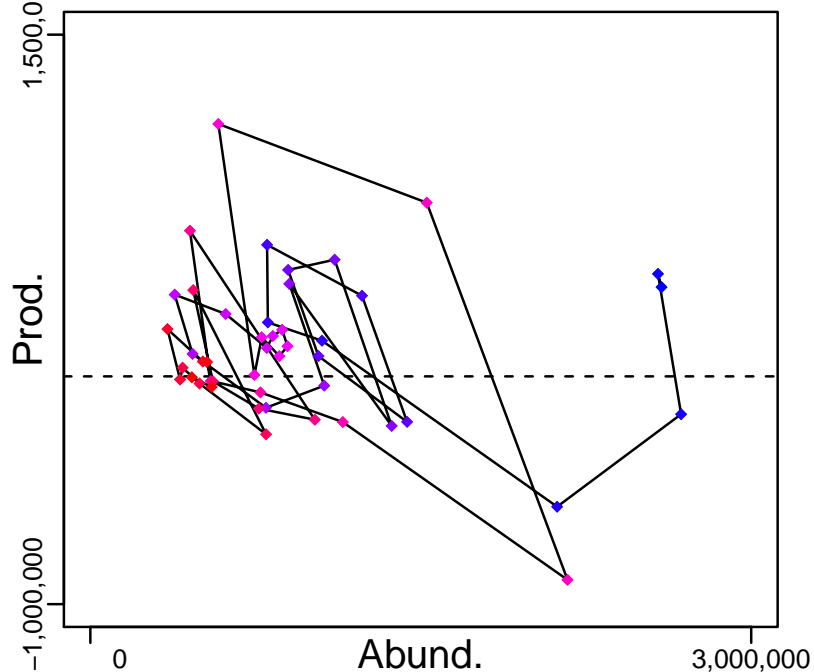
Kobe MGTpref (1972-2019-ICESIMP2021)



Spawner Recruit (1972-2019-ICESIMP2021)

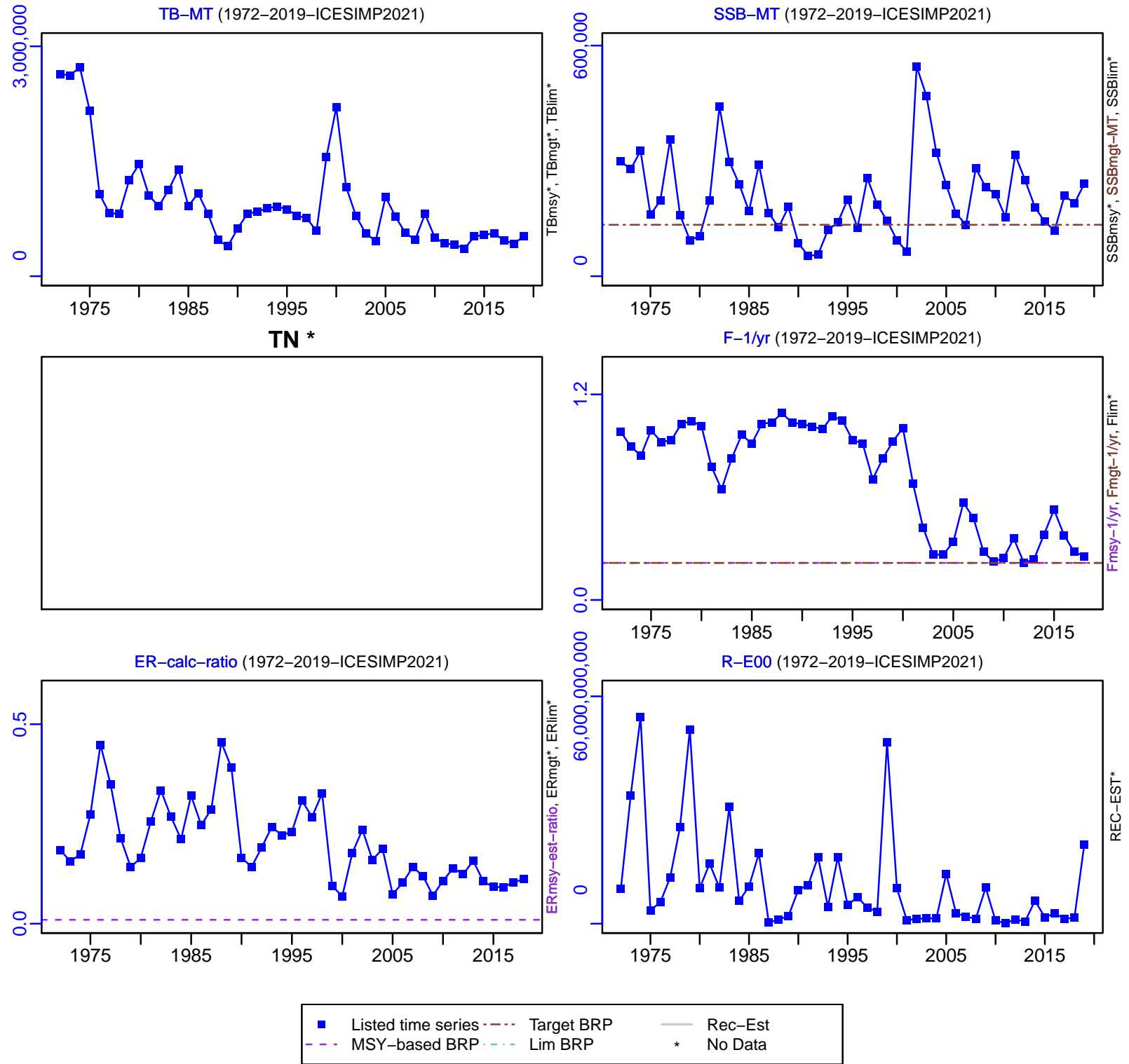


Production (1972-2019-ICESIMP2021)

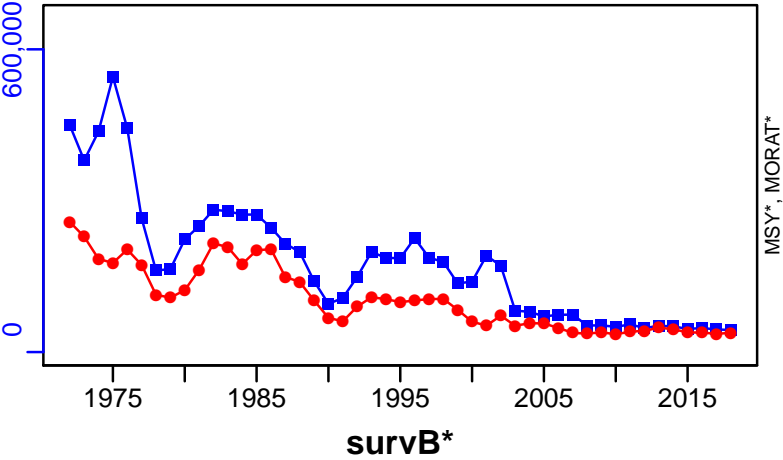


◆ Start Year ◆ End Year * No Data

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



TC-MT, TL-MT, RecC* (1972-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Haddock Rockall Bank [HADROCK]

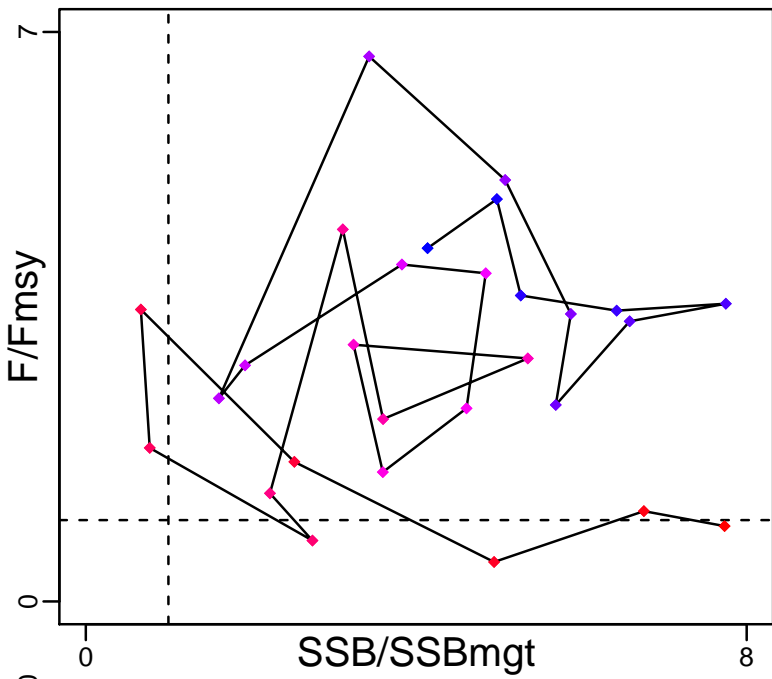
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADROCK-1990-2019-ICESIMP2021
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.168
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	3712
Fmgt	Fmgt-1/yr	2019	0.168
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	9000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	6800
Flim	Flim-1/yr	2017	0.69
ERlim	-	-	-

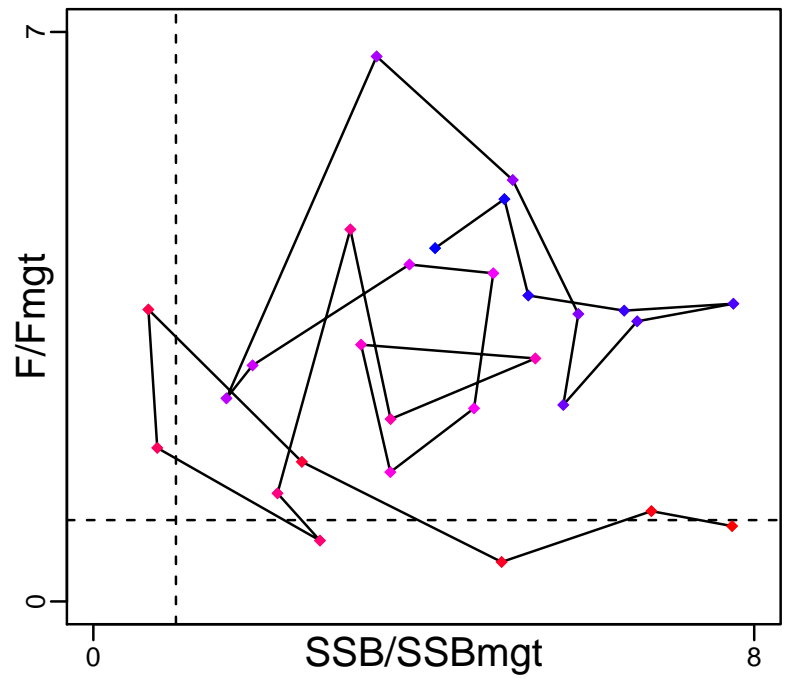
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	58,034	-	-
SSB	SSB-MT	2019	48,513	-	-
TN	-	-	-	-	-
R	R-E00	2019	24,444,000	-	1
F	F-1/yr	2019	0.156	-	2 to 5
ER	ER-calc-ratio	2019	0.072	-	-
TC	TC-MT	2019	3850		
TL	TL-MT	2019	3850		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.926		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	13.069		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.926		
ER/ERmgt	-	-	-		

Haddock Rockall Bank [HADROCK]

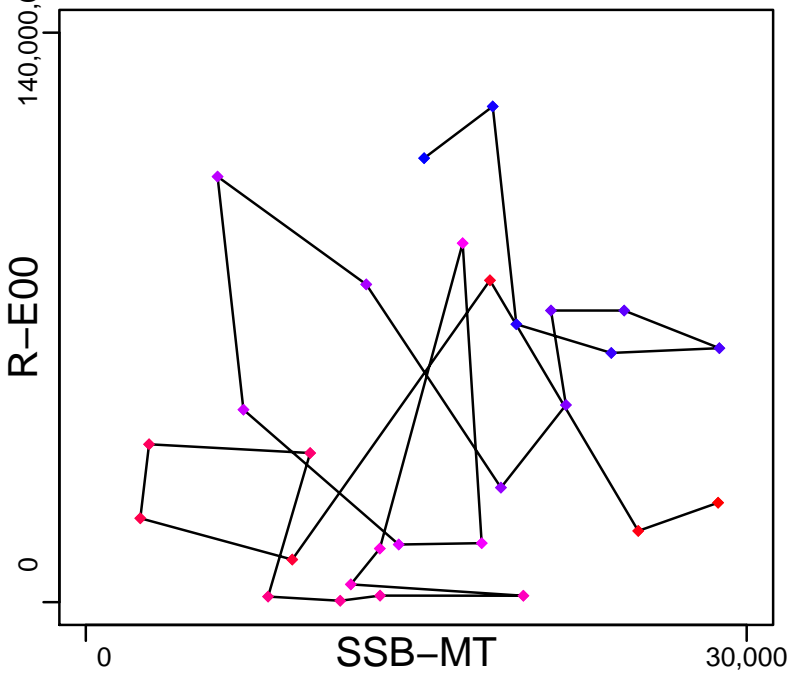
Kobe MSYpref (1990–2019–ICESIMP2021)



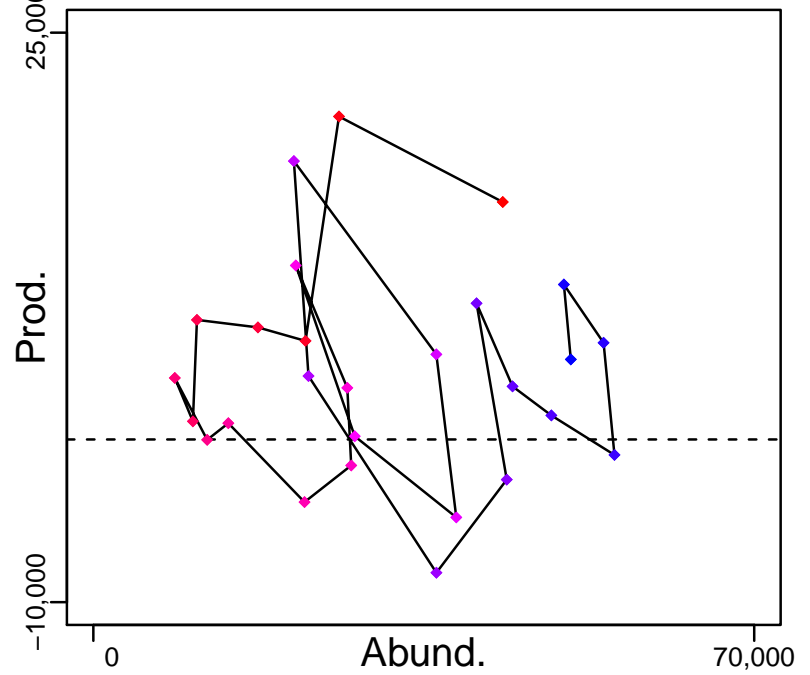
Kobe MGTpref (1990–2019–ICESIMP2021)



Spawner Recruit (1990–2019–ICESIMP2021)



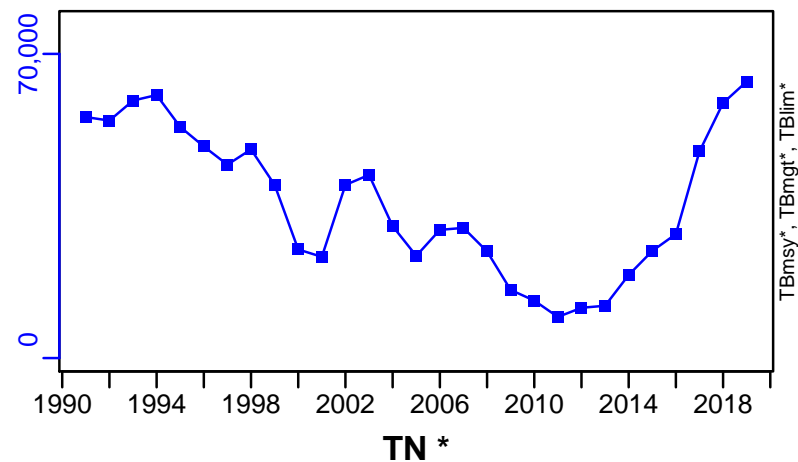
Production (1990–2019–ICESIMP2021)



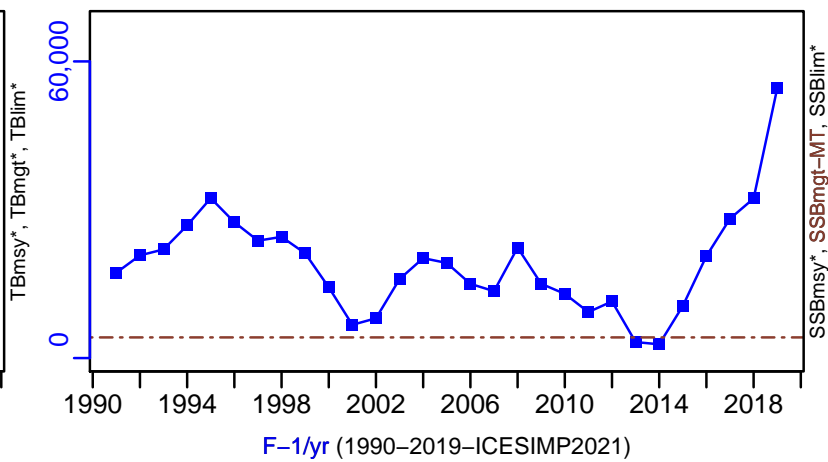
◆ Start Year ◆ End Year * No Data

Haddock Rockall Bank [HADROCK]

TB-MT (1990–2019–ICESIMP2021)



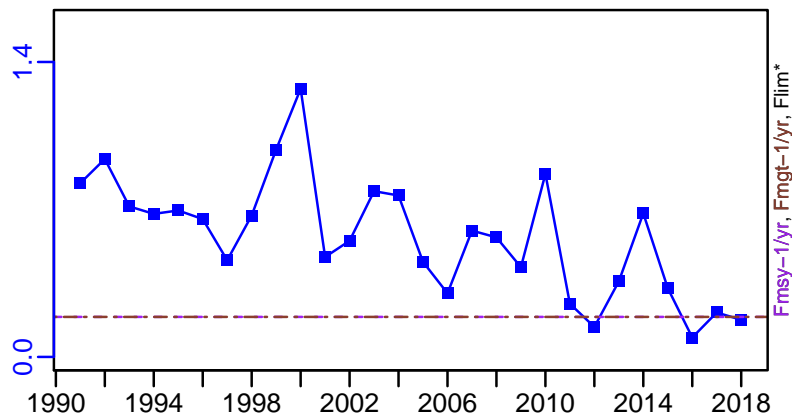
SSB-MT (1990–2019–ICESIMP2021)



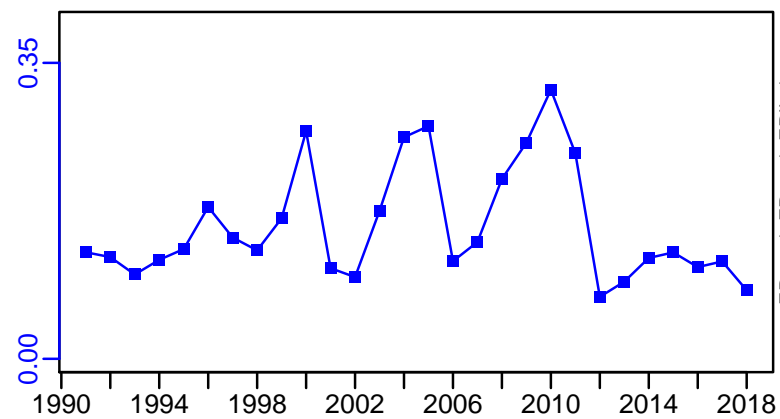
TN *



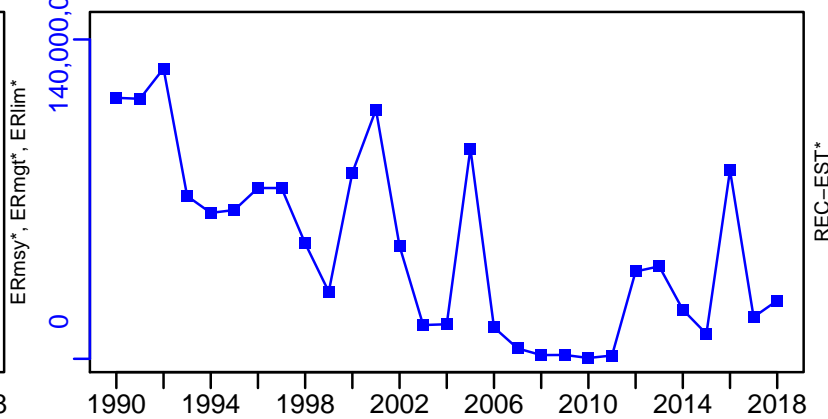
F-1/yr (1990–2019–ICESIMP2021)



ER-calc-ratio (1990–2019–ICESIMP2021)

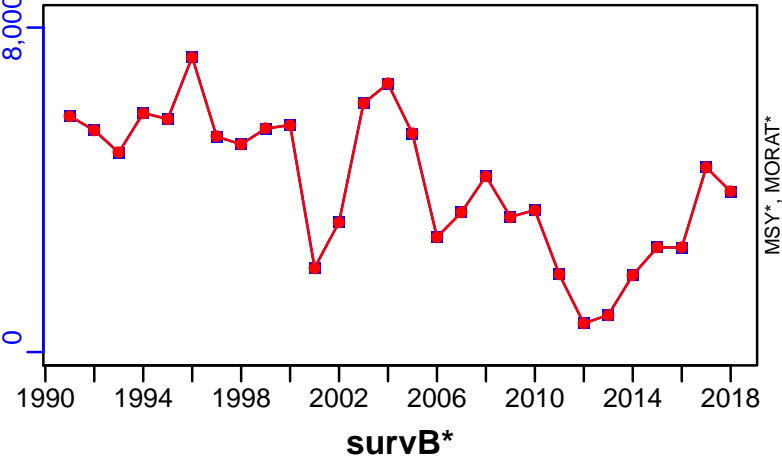


R-E00 (1990–2019–ICESIMP2021)



Haddock Rockall Bank [HADROCK]

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



TAC*, Cpair*, Cadv*



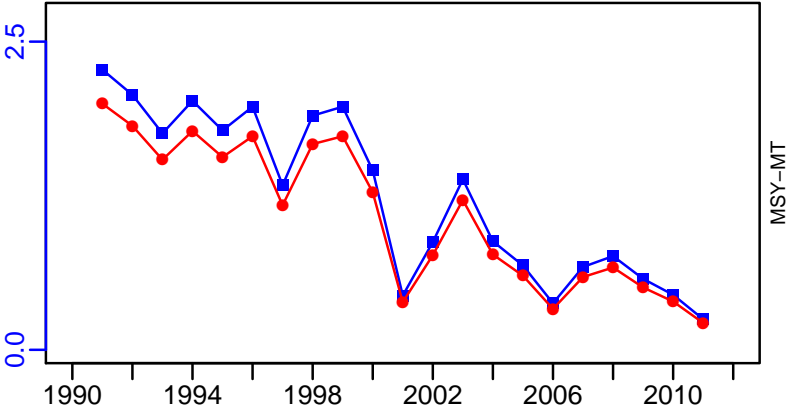
CPUE*



EFFORT*



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



Haddock ICES 7b-k [HADVIIb-k]

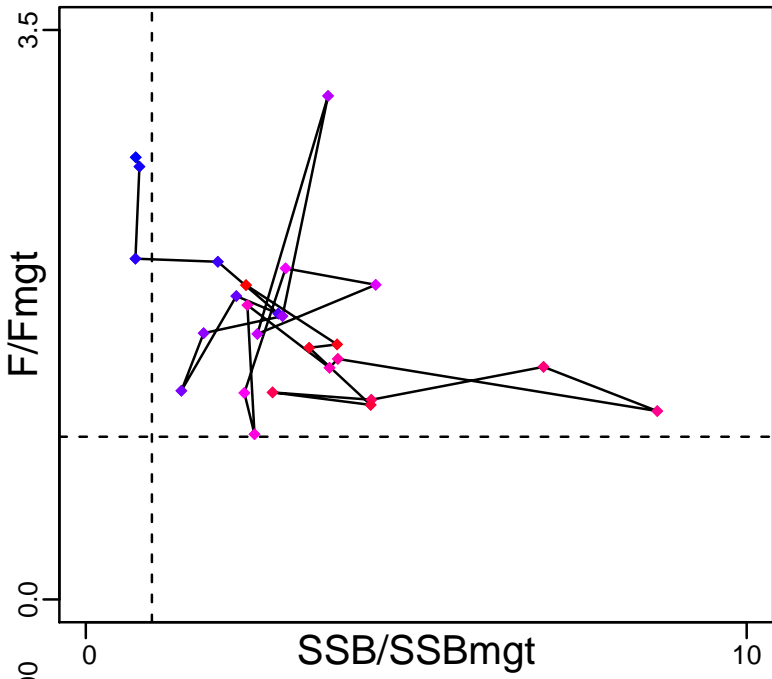
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADVIIb-k-1993-2019-ICESIMP2021
Area	ICES 7b-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	65,742
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.4
ERmsy	ERmsy-est-ratio	2012	0.306
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	10,000
Fmgt	Fmgt-1/yr	2019	0.4
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	20,137
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	6700
Flim	Flim-1/yr	2017	1.41
ERlim	-	-	-

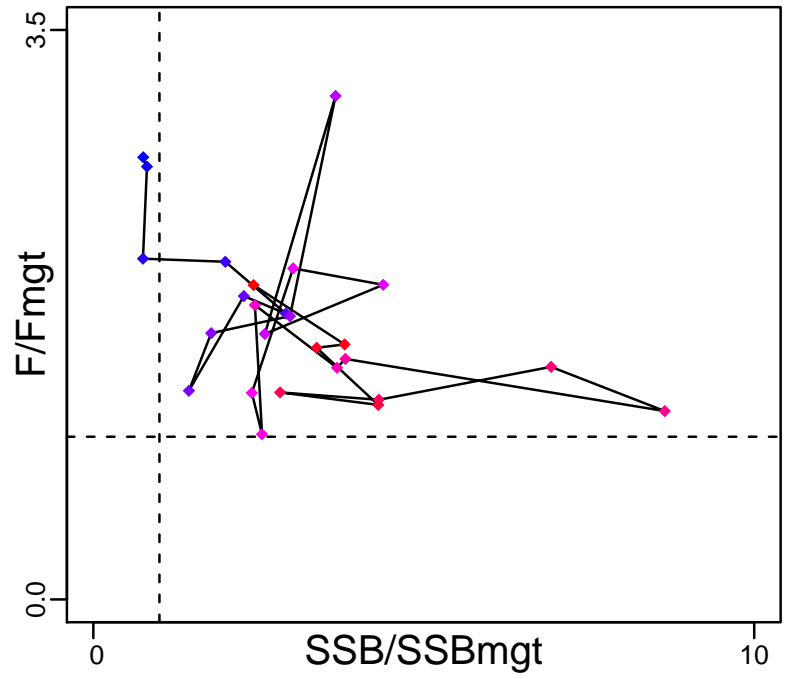
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	74,659	-	-
SSB	SSB-MT	2019	14,205	-	-
TN	-	-	-	-	-
R	R-E00	2019	252,713,000	-	0
F	F-1/yr	2019	0.773	-	3 to 5
ER	ER-calc-ratio	2019	0.168	-	-
TC	TC-MT	2019	12,546		
TL	TL-MT	2019	7109		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	1.339		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.685		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2012	0.996		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.421		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.932		
ER/ERmgt	-	-	-		

Haddock ICES 7b-k [HADVIIb-k]

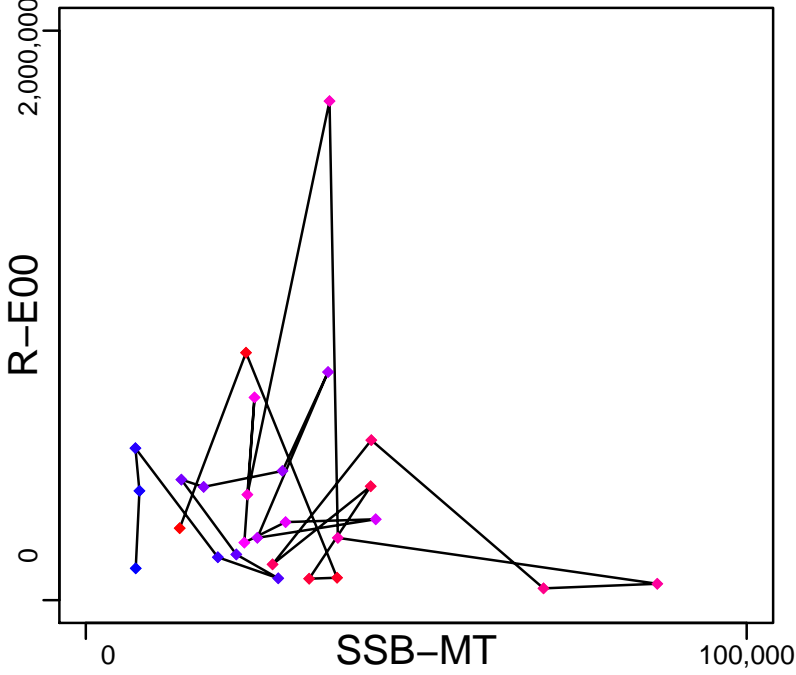
Kobe MSYpref (1993–2019–ICESIMP2021)



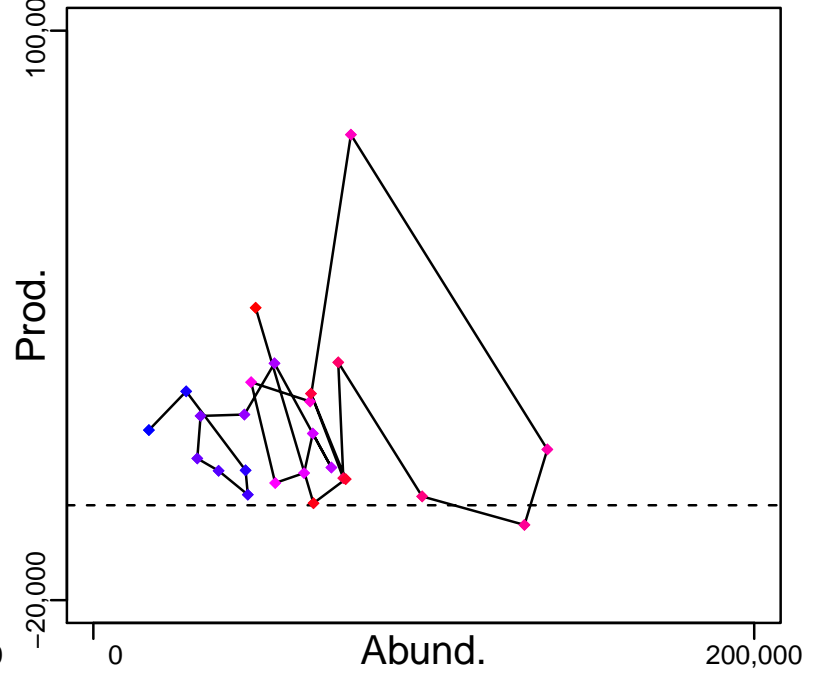
Kobe MGTpref (1993–2019–ICESIMP2021)



Spawner Recruit (1993–2019–ICESIMP2021)



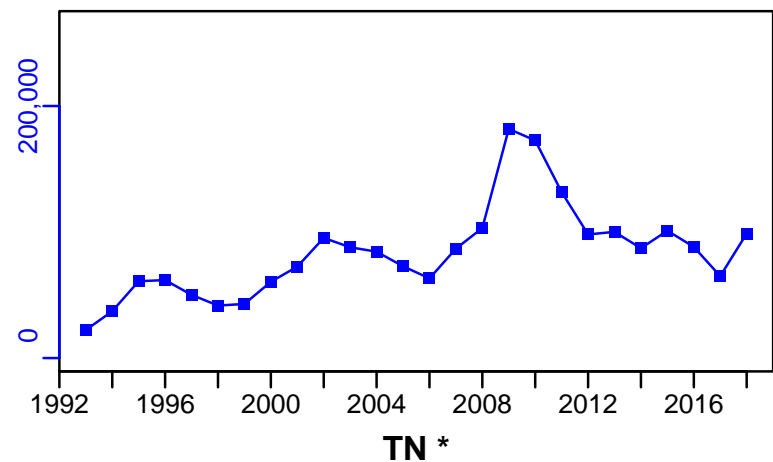
Production (1993–2019–ICESIMP2021)



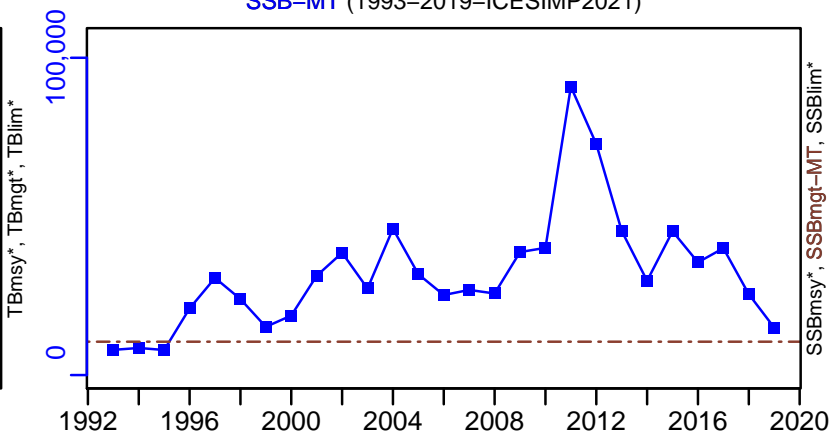
◆ Start Year ◆ End Year * No Data

Haddock ICES 7b-k [HADVIIb-k]

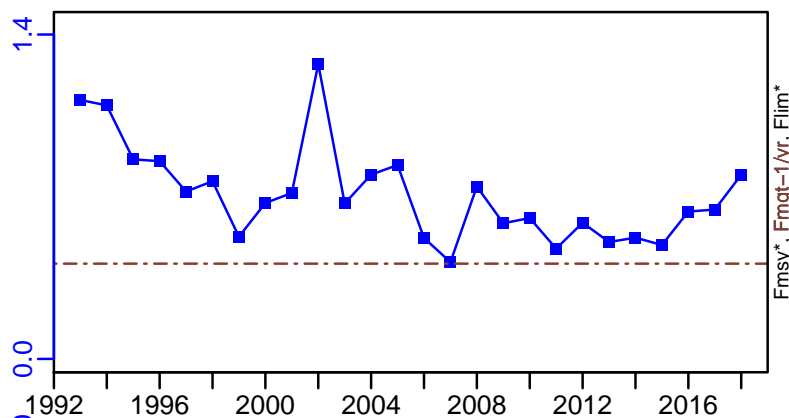
TB-MT (1993–2019–ICESIMP2021)



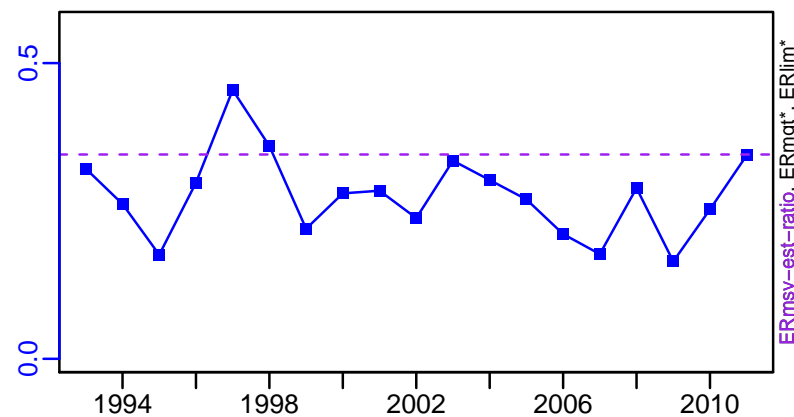
SSB-MT (1993–2019–ICESIMP2021)



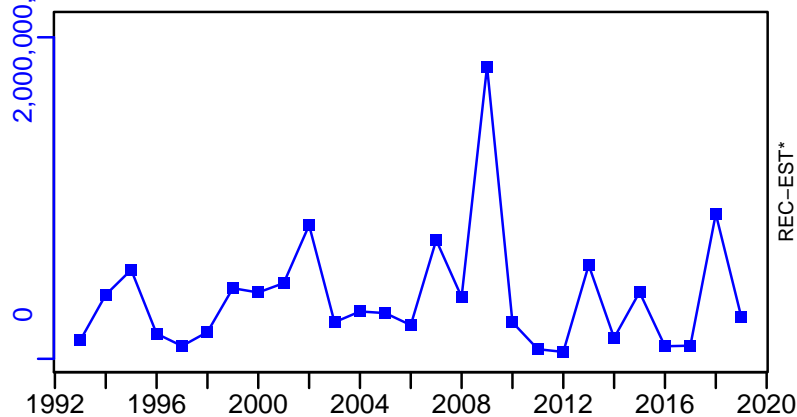
F-1/yr (1993–2019–ICESIMP2021)



ER-ratio (1987–2012–CHING)

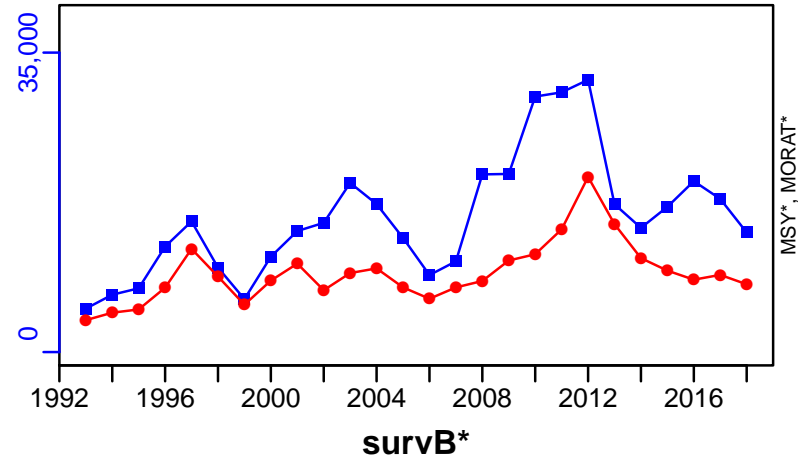


R-E00 (1993–2019–ICESIMP2021)



Haddock ICES 7b-k [HADVIIb-k]

TC-MT, TL-MT, RecC* (1993-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



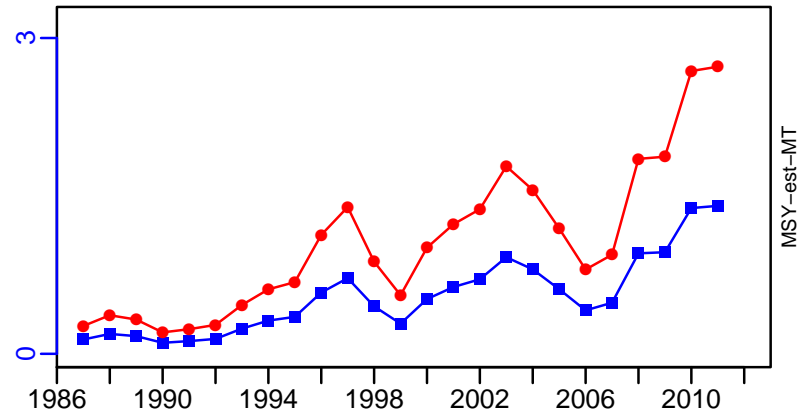
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1987-2012-CHING)



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

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

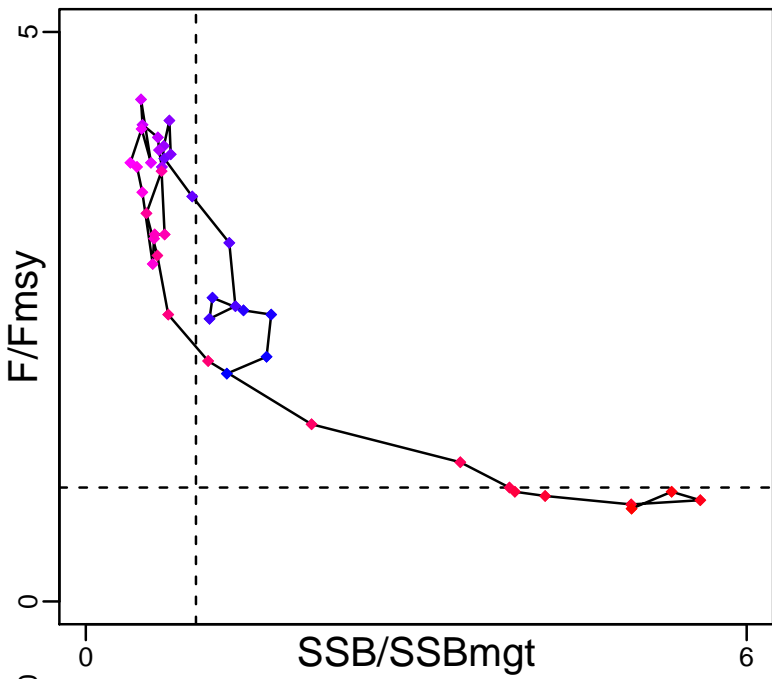
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKENRTN-1978-2019-ICESIMP2021
Area	ICES 3a-4-6-7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	271,388
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.27
ERmsy	ERmsy-est-ratio	2019	0.491
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	56,000
Fmgt	Fmgt-1/yr	2019	0.27
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	106,752
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	32,000
Flim	Flim-1/yr	2018	0.87
ERlim	-	-	-

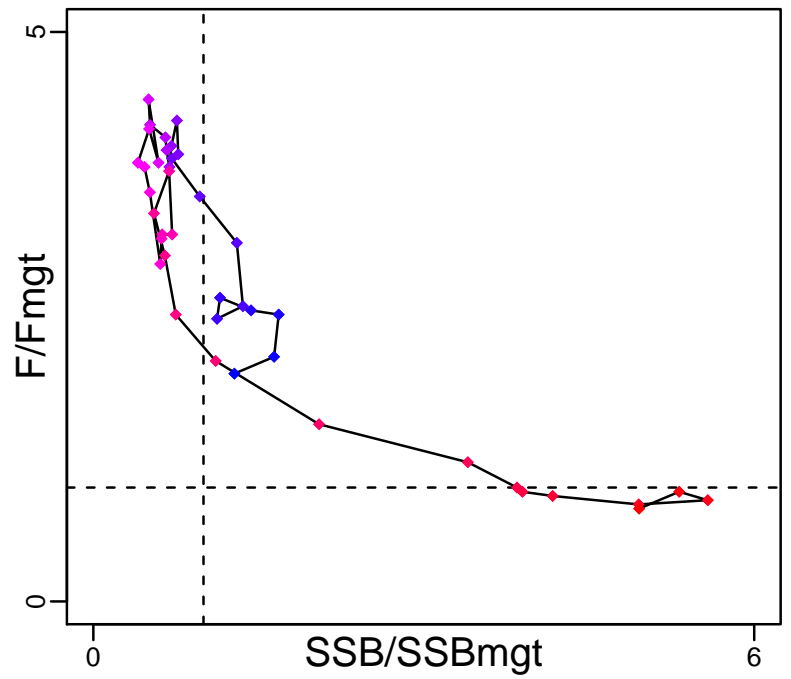
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	339,643	-	-
SSB	SSB-MT	2019	285,371	-	-
TN	-	-	-	-	-
R	R-E00	2019	310,754,000	-	0
F	F-1/yr	2019	0.22	-	-
ER	ER-calc-ratio	2019	0.283	-	-
TC	TC-MT	2019	96,188		
TL	TL-MT	2019	89,695		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	1.135		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.815		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.577		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	5.096		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.815		
ER/ERmgt	-	-	-		

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

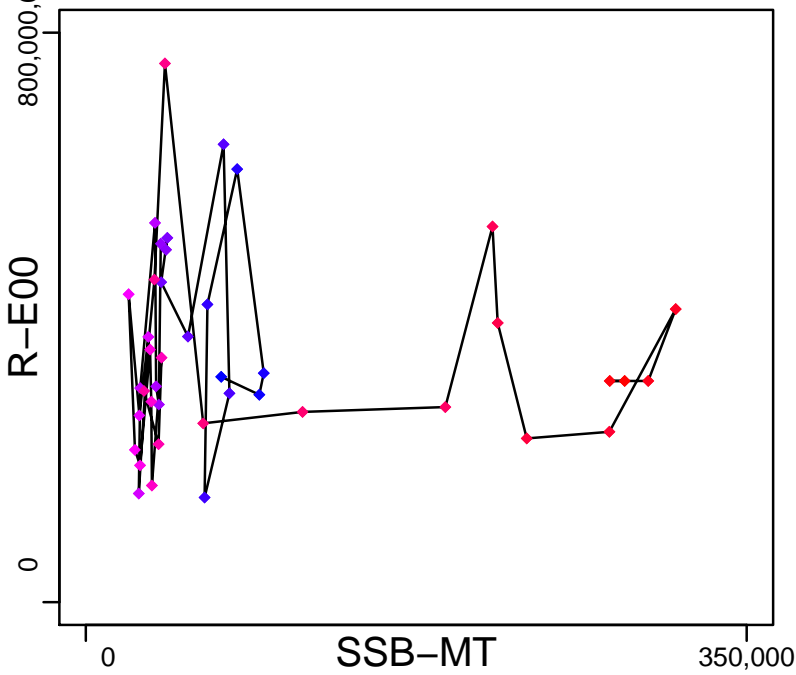
Kobe MSYpref (1978-2019-ICESIMP2021)



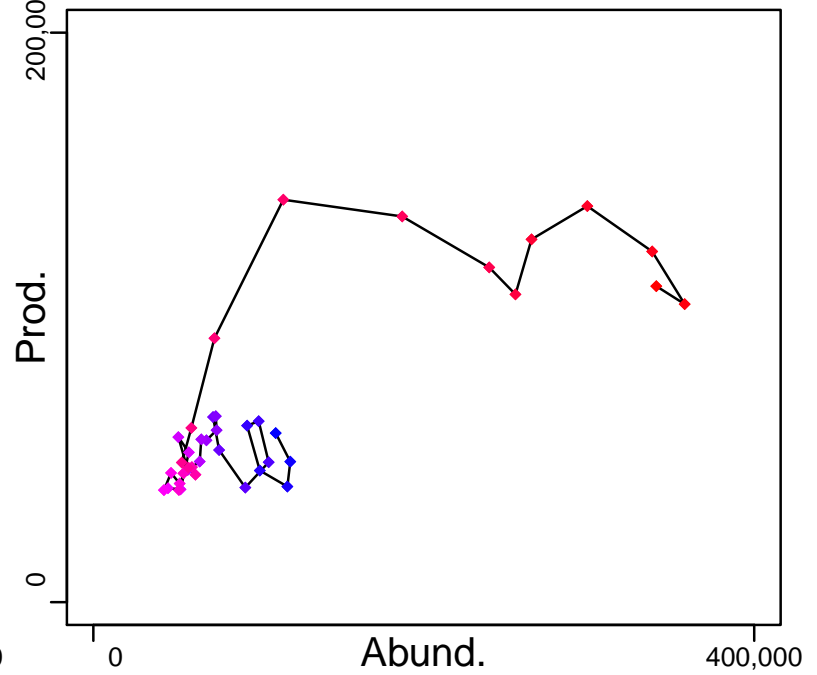
Kobe MGTpref (1978-2019-ICESIMP2021)



Spawner Recruit (1978-2019-ICESIMP2021)

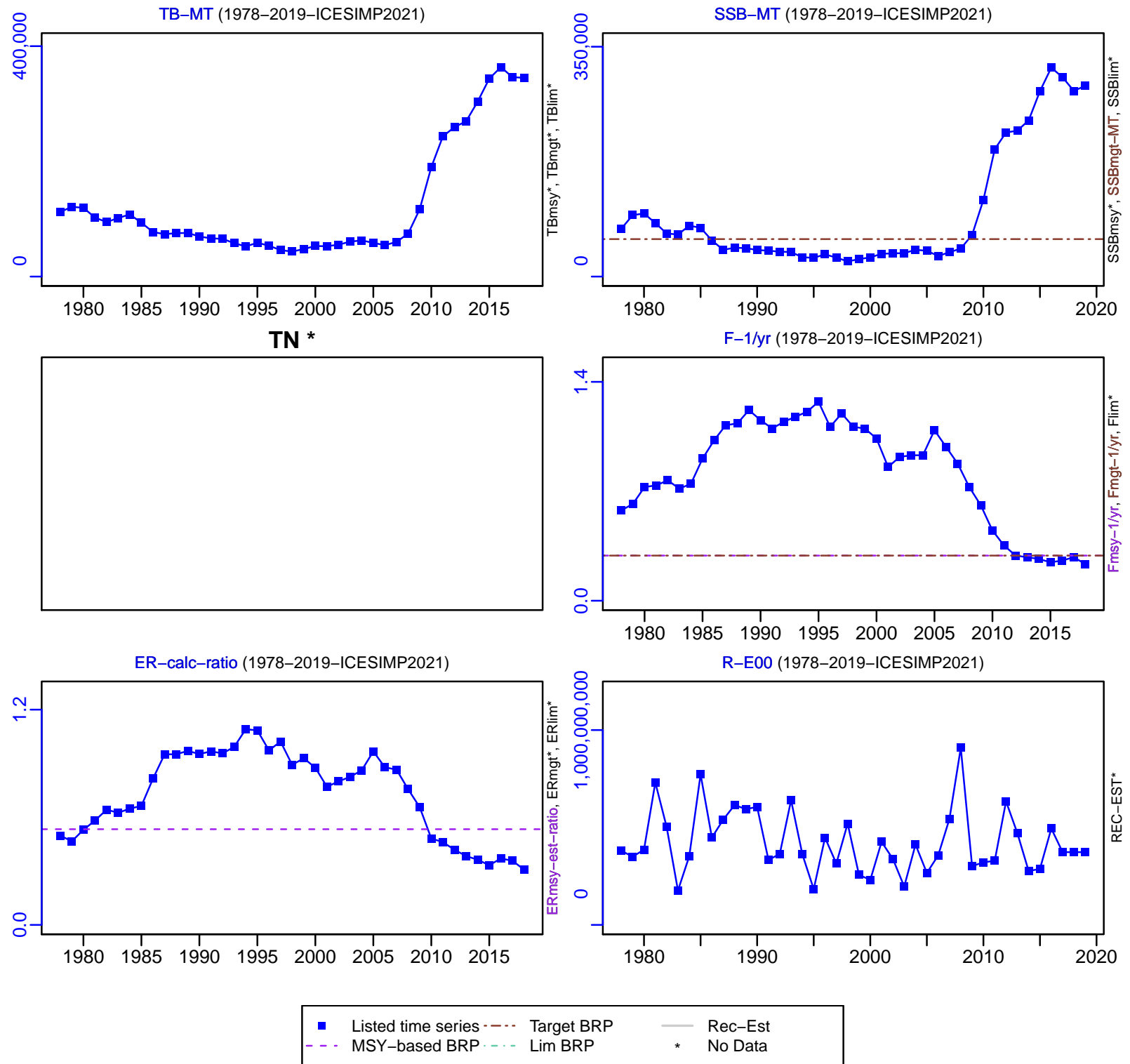


Production (1978-2019-ICESIMP2021)



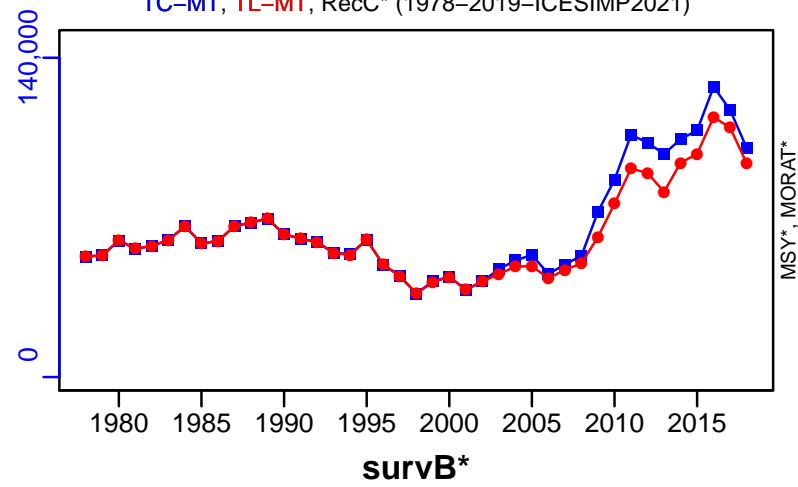
◆ Start Year ◆ End Year * No Data

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



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

TC-MT, TL-MT, RecC* (1978-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



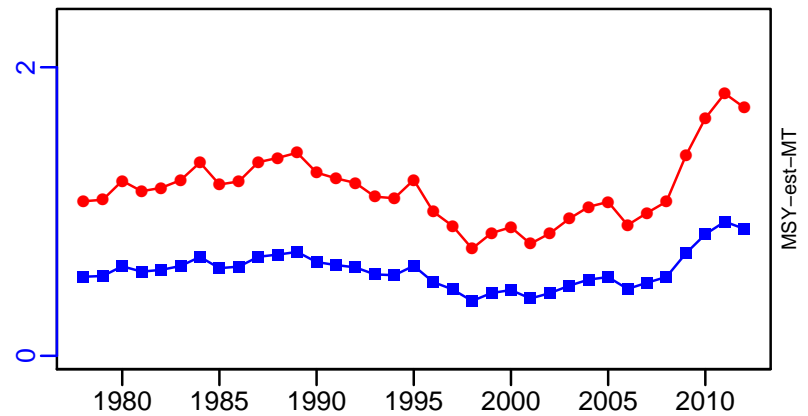
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2013-ICESIMP2016)



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

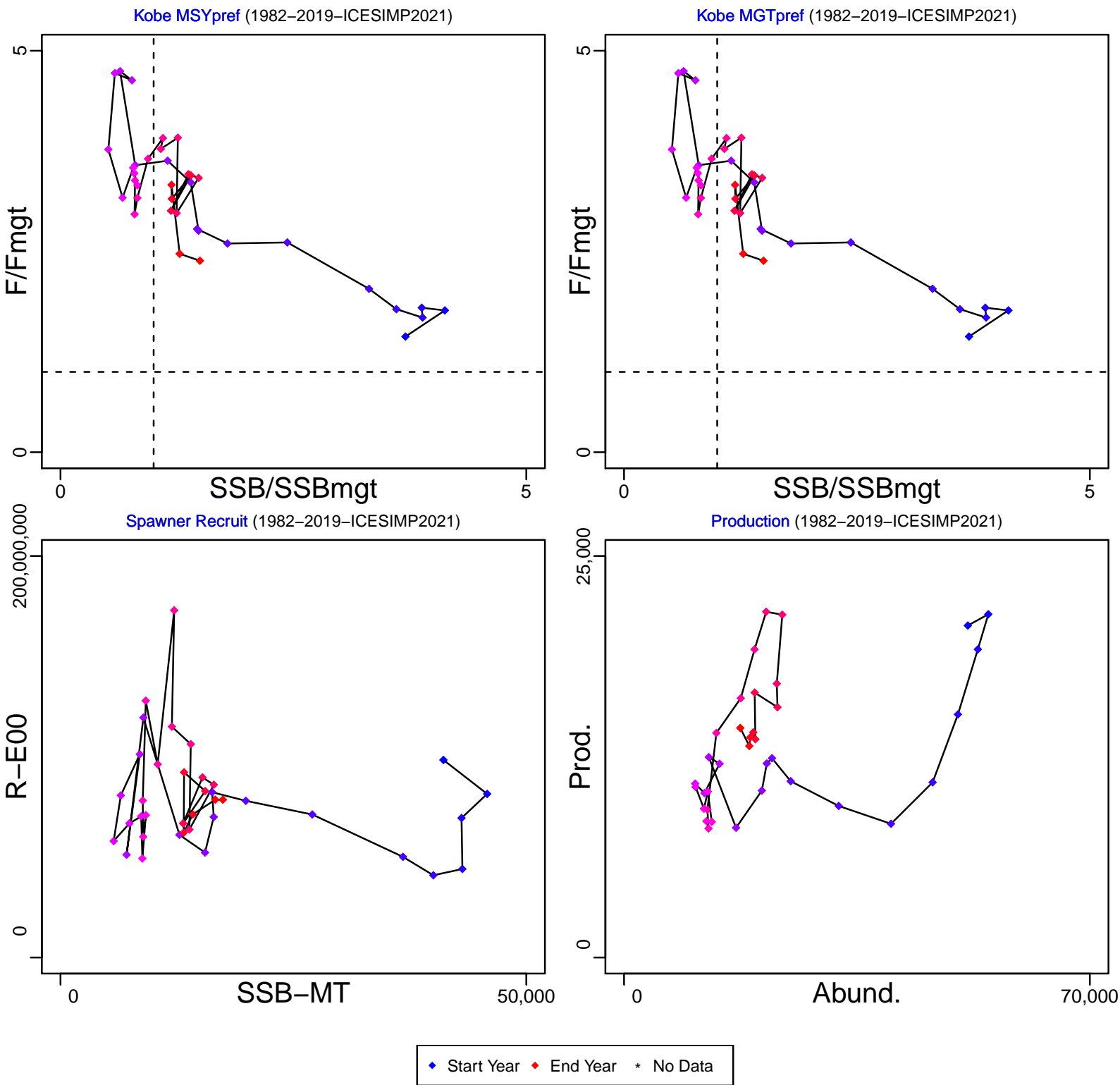
Hake ICES 8c-9a [HAKESOTH]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKESOTH-1982-2019-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	39,990
SSBmsy	SSBmsy-est-MT	2014	30,348
Fmsy	Fmsy-1/yr	2018	0.25
ERmsy	ERmsy-est-ratio	2019	0.453
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	11,100
Fmgt	Fmgt-1/yr	2019	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	17,849
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	8000
Flim	Flim-1/yr	2018	1.05
ERlim	-	-	-

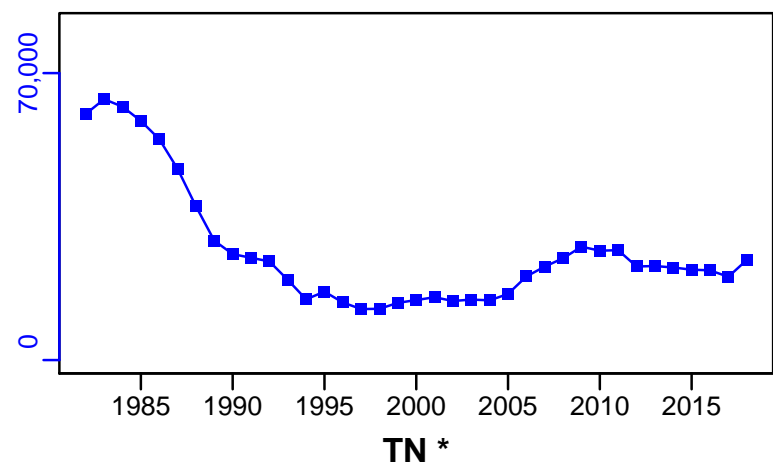
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	20,988	-	-
SSB	SSB-MT	2019	17,430	-	-
TN	-	-	-	-	-
R	R-E00	2019	78,619,505	-	0
F	F-1/yr	2019	0.596	-	1 to 3
ER	ER-calc-ratio	2019	0.575	-	-
TC	TC-MT	2019	12,065		
TL	TL-MT	2019	10,123		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.588		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2014	0.814		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.76		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.269		
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]

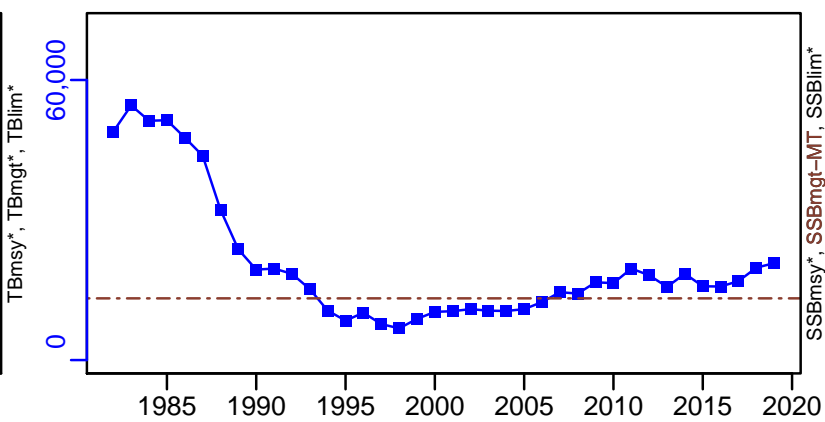


Hake ICES 8c–9a [HAKESOTH]

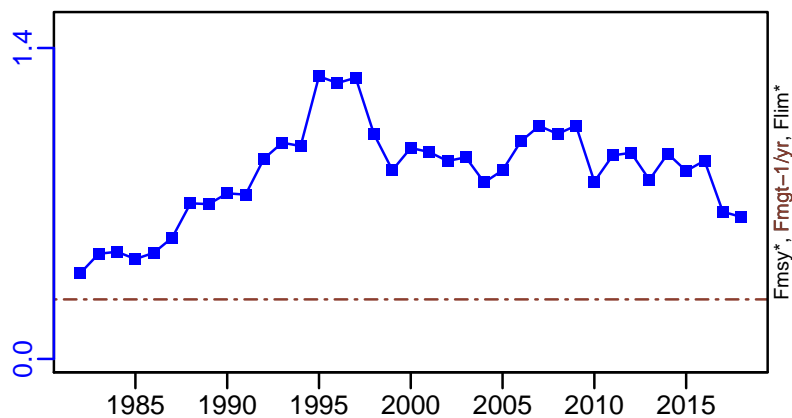
TB–MT (1982–2019–ICESIMP2021)



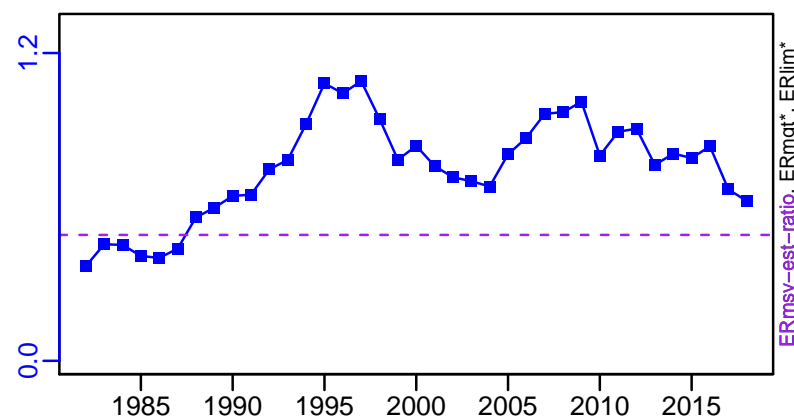
SSB–MT (1982–2019–ICESIMP2021)



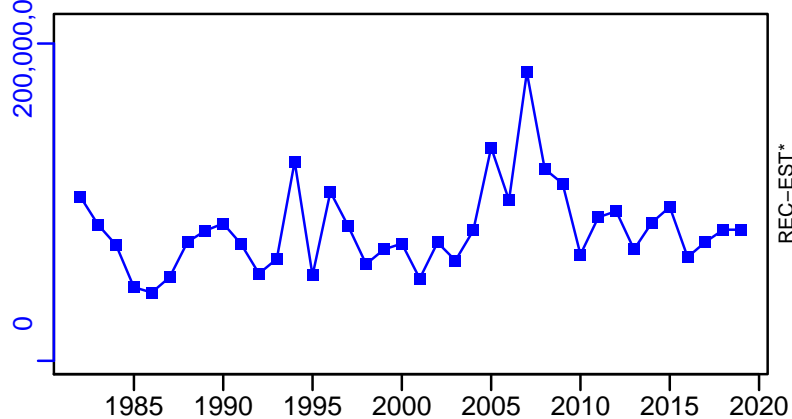
F–1/yr (1982–2019–ICESIMP2021)



ER–calc–ratio (1982–2019–ICESIMP2021)

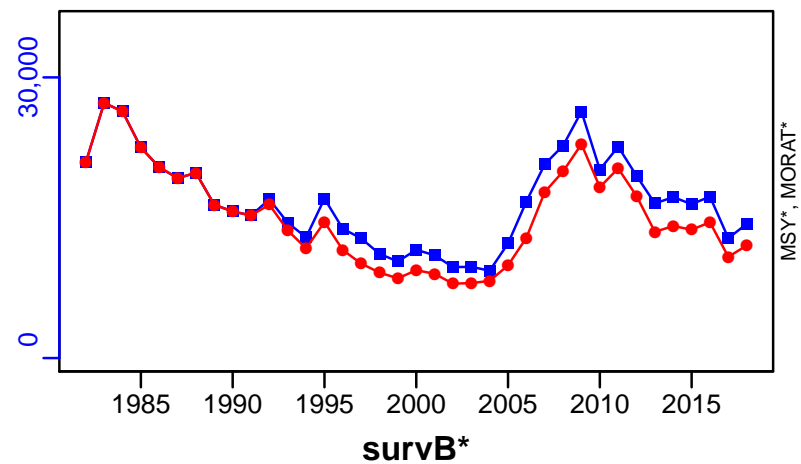


R–E00 (1982–2019–ICESIMP2021)



Hake ICES 8c-9a [HAKESOTH]

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



TAC*, Cpair*, Cadv*



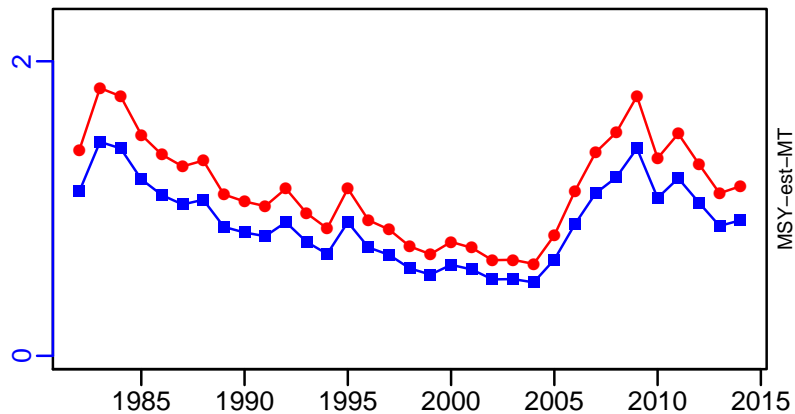
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1982-2015-ICESIMP2016)



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

Herring ICES 22-24-3a [HERR2224IIIa]

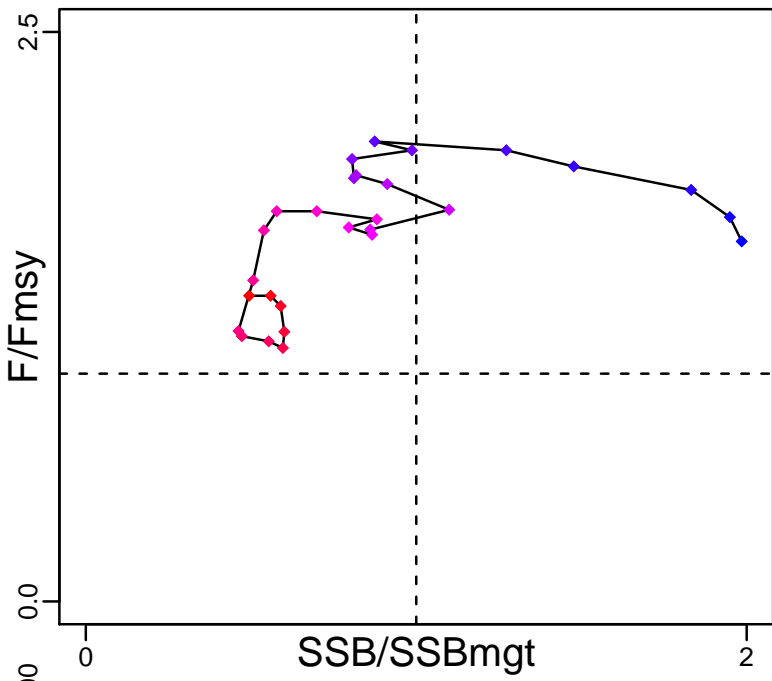
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERR2224IIIa-1991-2019-ICESIMP2021
Area	ICES 22-24-3a
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	110,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.31
ERmsy	ERmsy-est-ratio	2019	0.309
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	150,000
Fmgt	Fmgt-1/yr	2019	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	120,000
Flim	Flim-1/yr	2018	0.45
ERlim	-	-	-

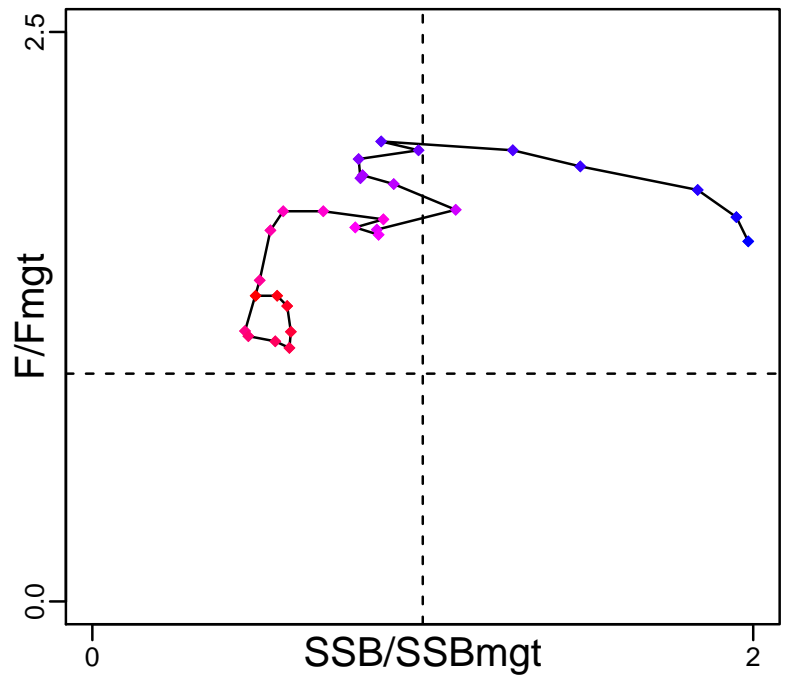
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	114,957	-	-
SSB	SSB-MT	2019	69,743	-	-
TN	-	-	-	-	-
R	R-E00	2019	1,223,484,000	-	0
F	F-1/yr	2019	0.416	-	3 to 6
ER	ER-calc-ratio	2019	0.357	-	-
TC	TC-MT	2019	41,058		
TL	TL-MT	2019	41,058		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.491		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.342		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.157		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.465		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.342		
ER/ERmgt	-	-	-		

Herring ICES 22-24-3a [HERR2224IIIa]

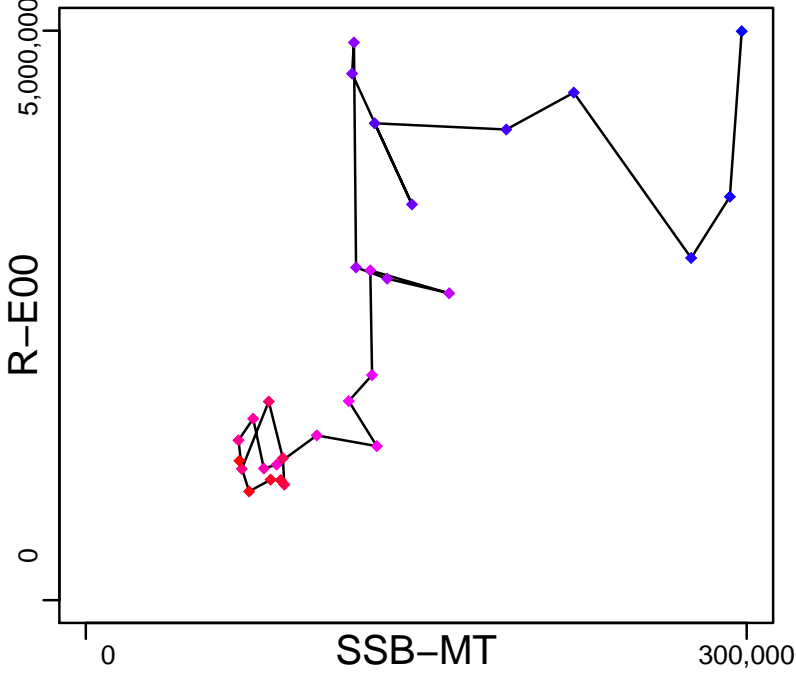
Kobe MSYpref (1991-2019-ICESIMP2021)



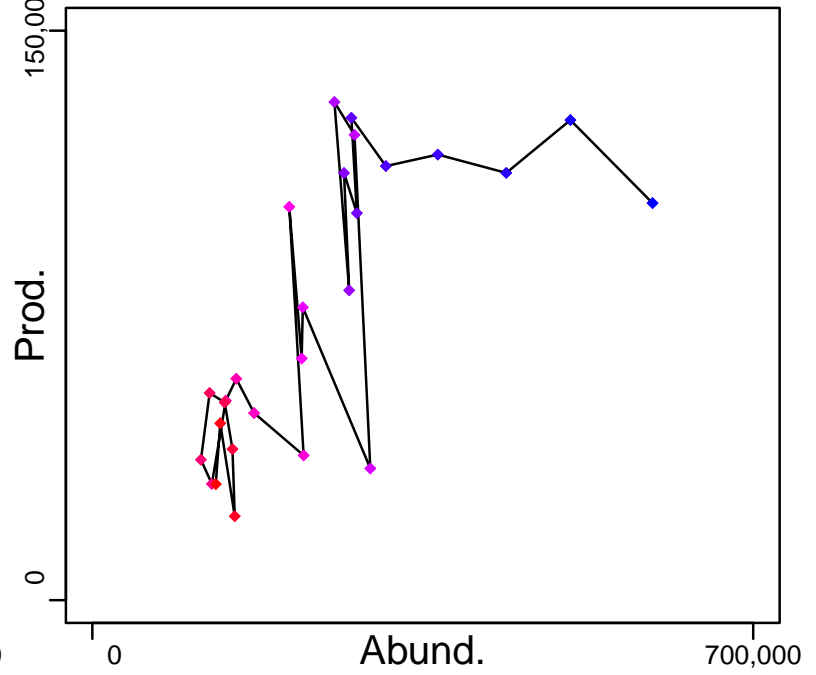
Kobe MGTpref (1991-2019-ICESIMP2021)



Spawner Recruit (1991-2019-ICESIMP2021)

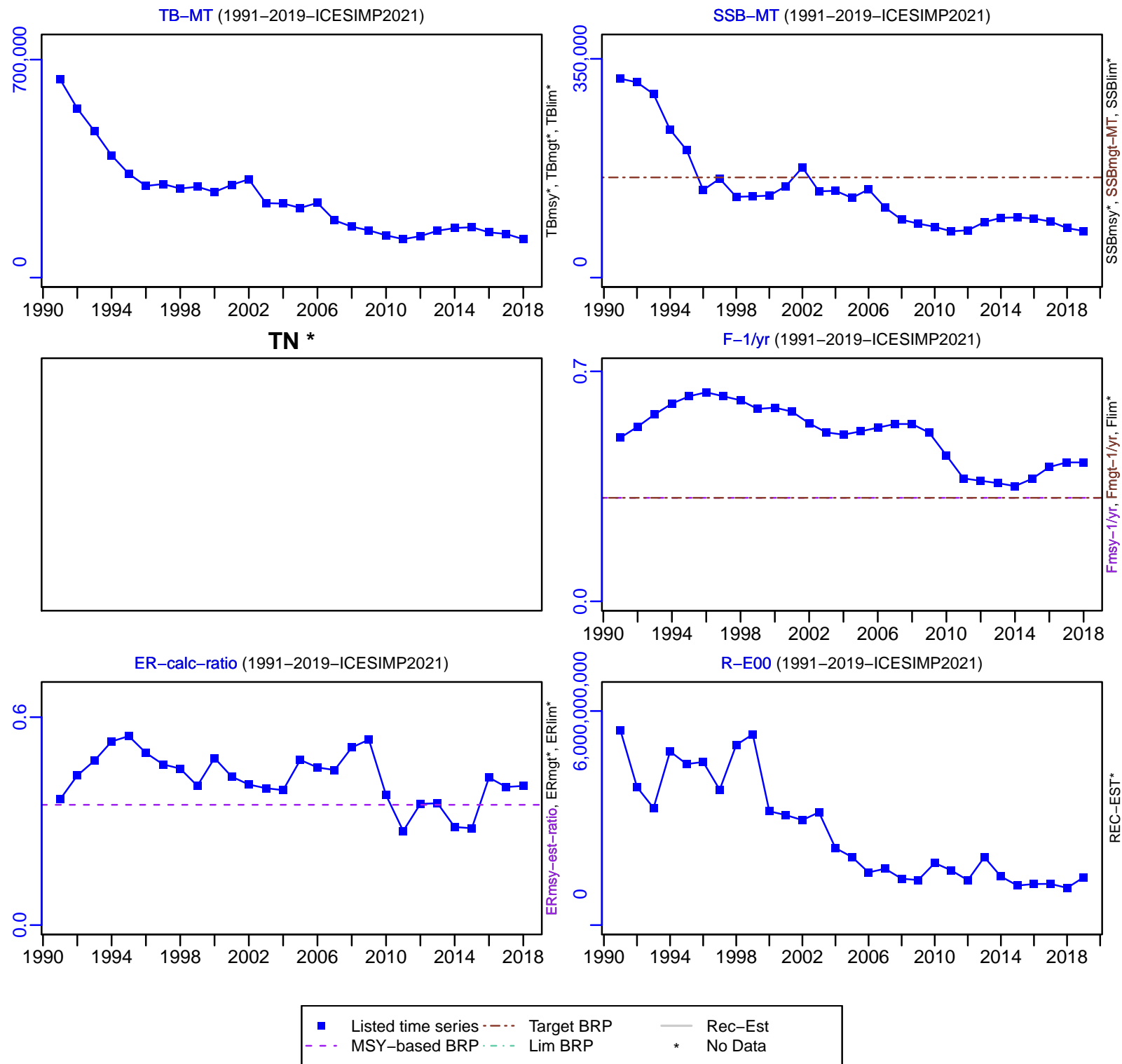


Production (1991-2019-ICESIMP2021)

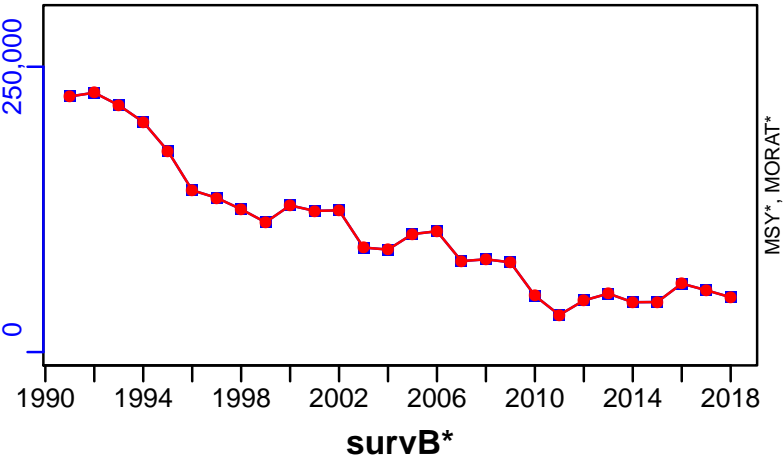


◆ Start Year ◆ End Year * No Data

Herring ICES 22–24–3a [HERR2224IIIa]



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



TAC*, Cpair*, Cadv*



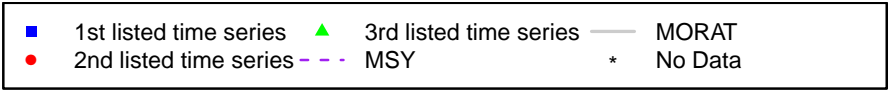
CPUE*



EFFORT*



CdivMSY*



Herring Subdivisions 25-29 and 32 [HERR2529-32]

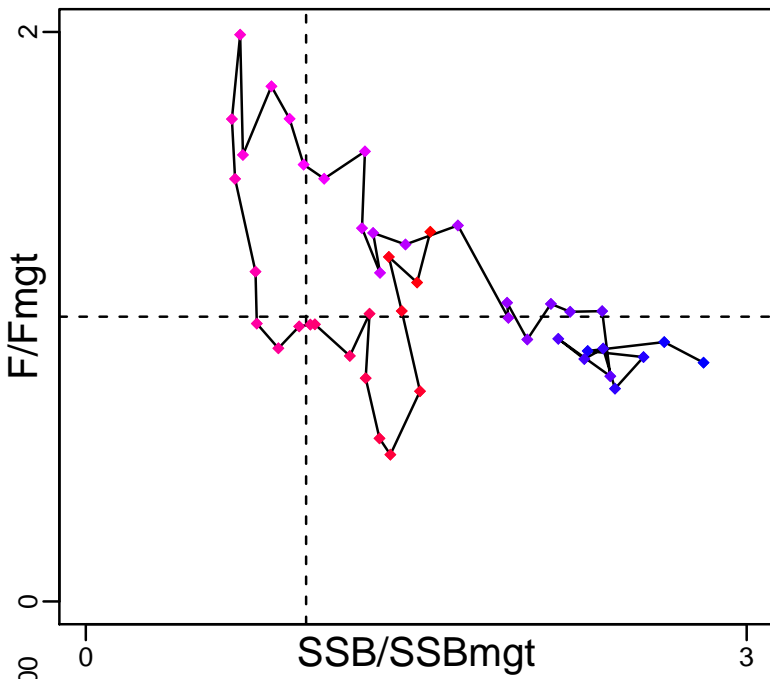
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR2529-32-1973-2019-ICESIMP2021
Area	Subdivisions 25-29 and 32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.22
ERmsy	ERmsy-est-ratio	2019	0.15
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6×10^5
Fmgt	Fmgt-1/yr	2019	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	430,000
Flim	Flim-1/yr	2018	0.52
ERlim	-	-	-

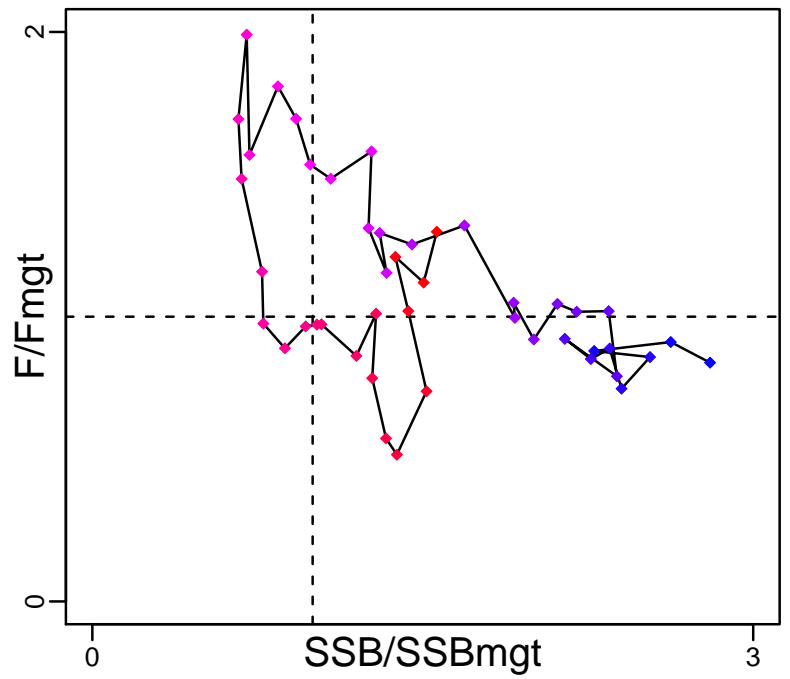
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	1,379,633	-	-
SSB	SSB-MT	2019	844,663	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.14×10^{10}	-	1
F	F-1/yr	2019	0.286	-	3 to 6
ER	ER-calc-ratio	2019	0.177	-	-
TC	TC-MT	2019	244,365		
TL	TL-MT	2019	244,365		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.255		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.178		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.408		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.298		
ER/ERmgt	-	-	-		

Herring Subdivisions 25–29 and 32 [HERR2529–32]

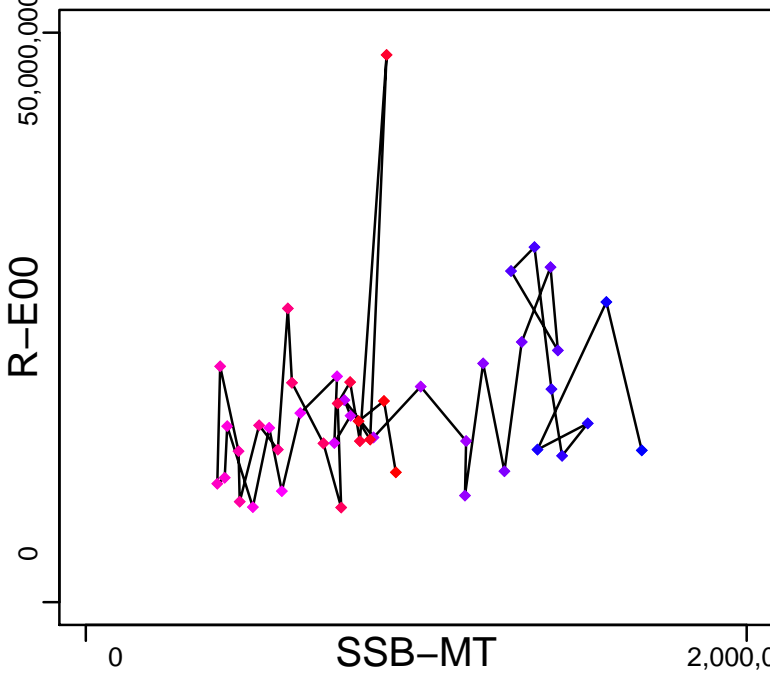
Kobe MSYpref (1973–2019–ICESIMP2021)



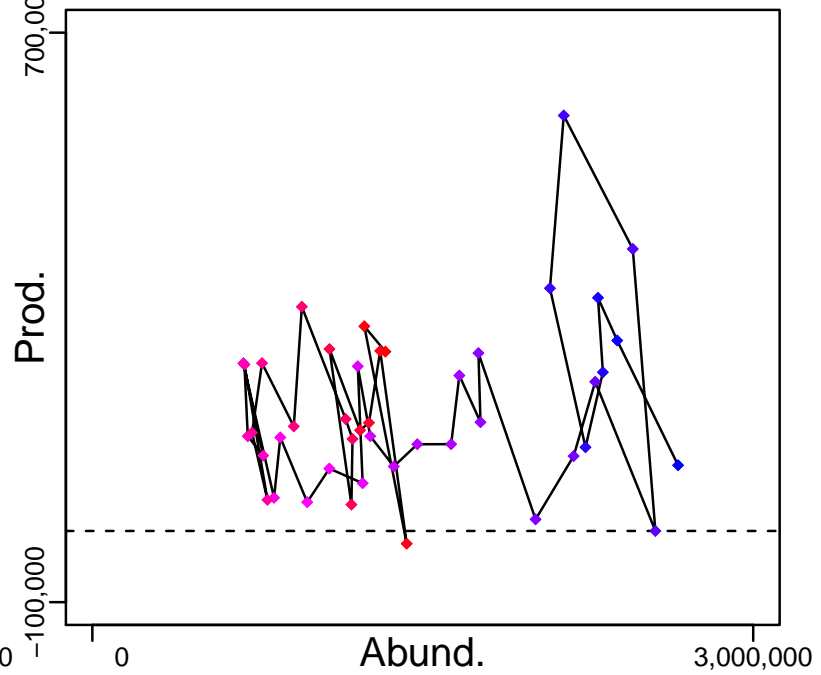
Kobe MGTpref (1973–2019–ICESIMP2021)



Spawner Recruit (1973–2019–ICESIMP2021)

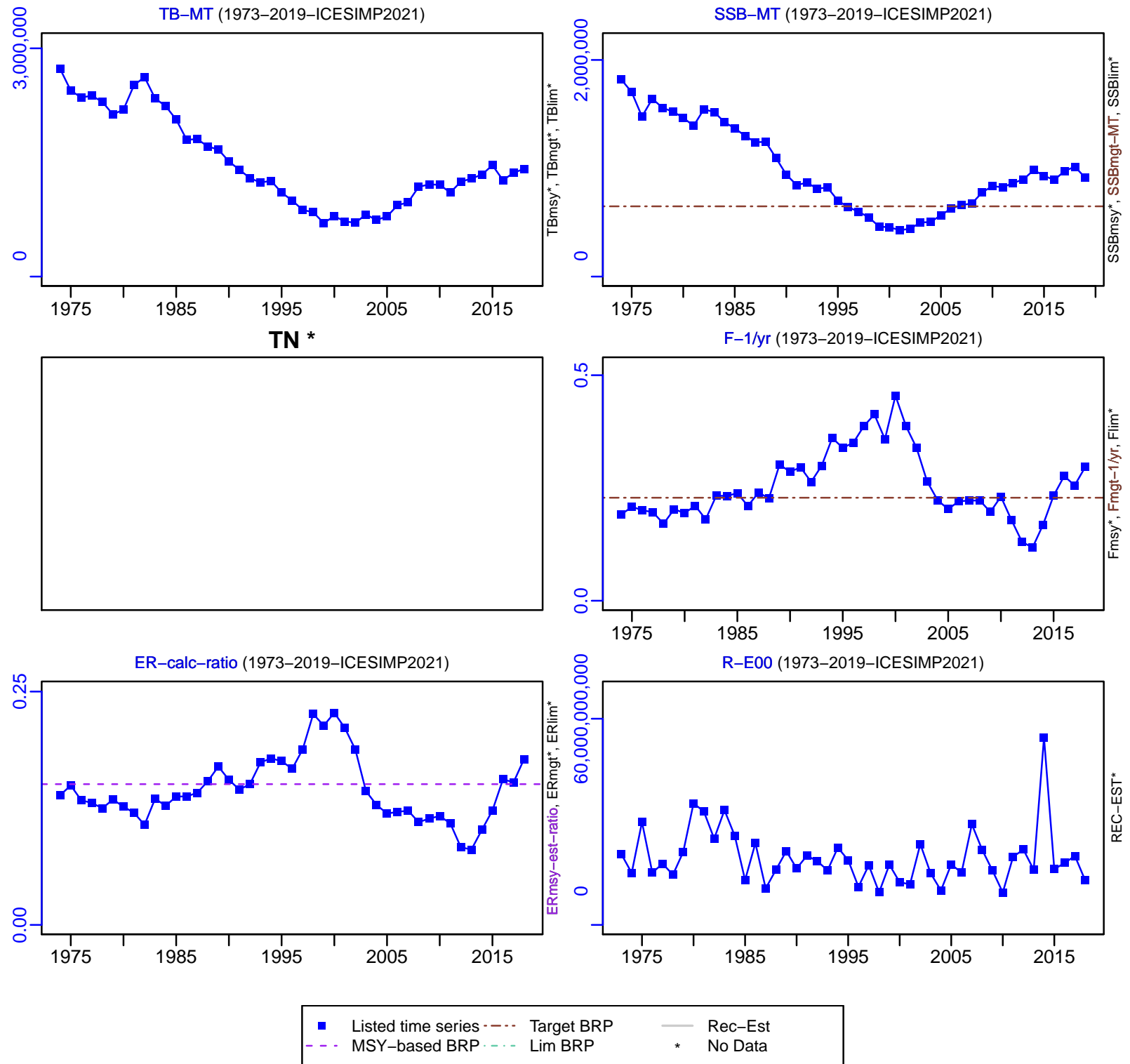


Production (1973–2019–ICESIMP2021)



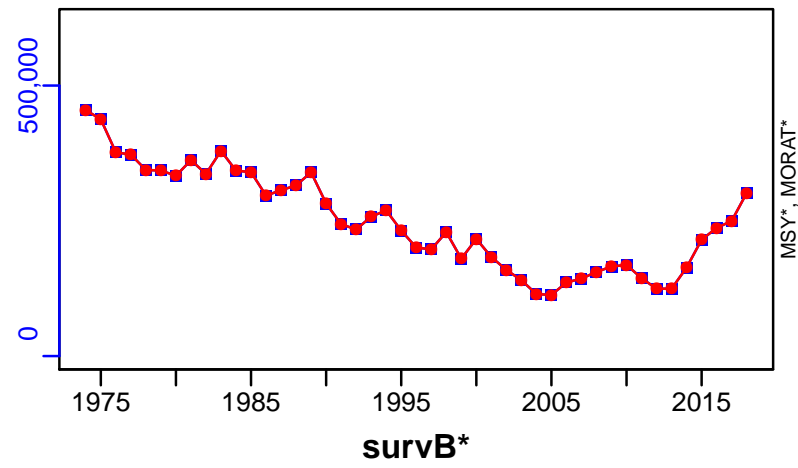
◆ Start Year ◆ End Year * No Data

Herring Subdivisions 25–29 and 32 [HERR2529–32]



Herring Subdivisions 25–29 and 32 [HERR2529–32]

TC–MT, TL–MT, RecC* (1973–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Herring Subdivisions 30-31 [HERR30-31]

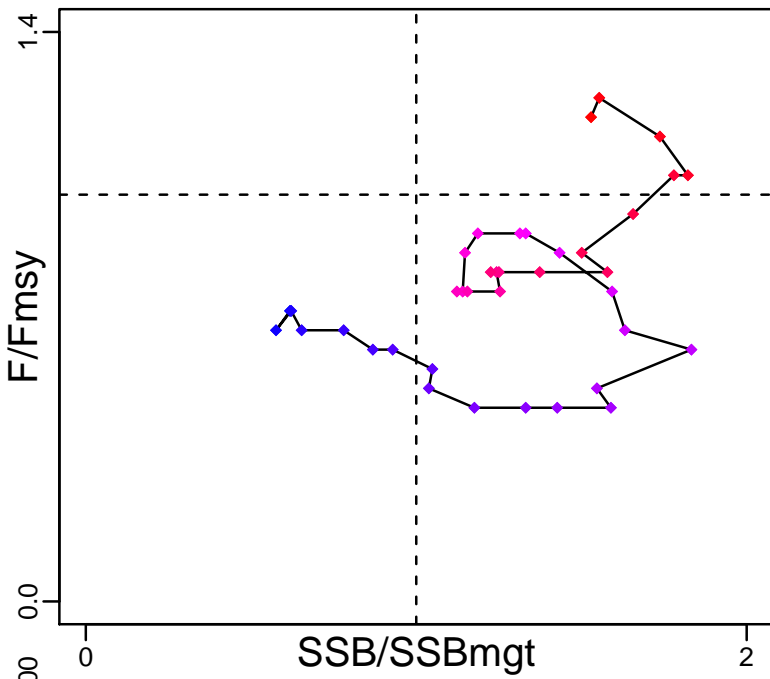
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR30-31-1979-2018-ICESIMP2021
Area	Subdivisions 30-31
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2017, 2018, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.21
ERmsy	ERmsy-est-ratio	2018	0.159
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	283,180
Fmgt	Fmgt-1/yr	2018	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	202,272
Flim	Flim-1/yr	2018	0.29
ERlim	-	-	-

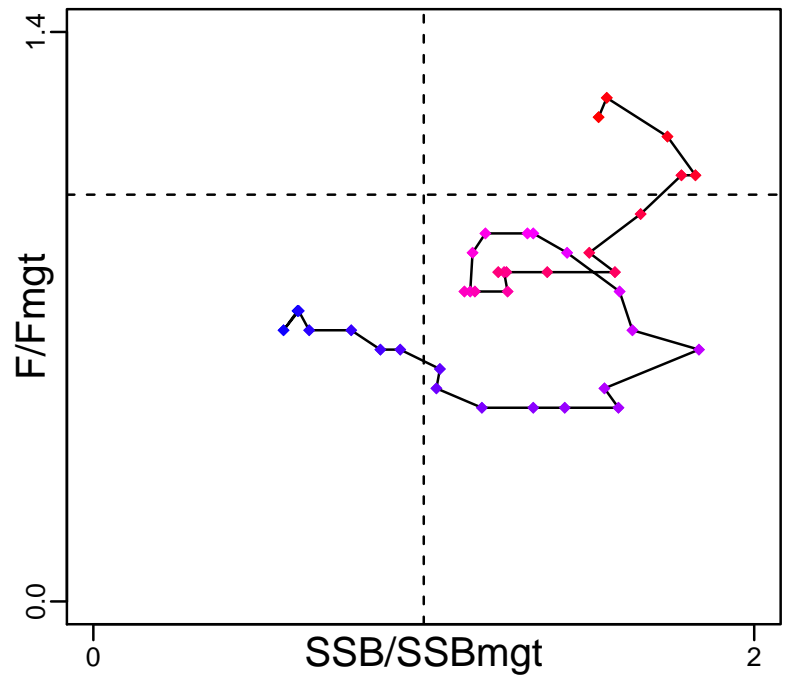
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2018	0.892	-	-
SSB	SSB-MT	2018	422,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.61×10^9	-	1
F	F-1/yr	2018	0.25	-	3 to 7
ER	ER-calc-ratio	2018	0.127	-	-
TC	TC-MT	2018	97,366		
TL	TL-MT	2018	104,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.19		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.797		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.49		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.19		
ER/ERmgt	-	-	-		

Herring Subdivisions 30-31 [HERR30-31]

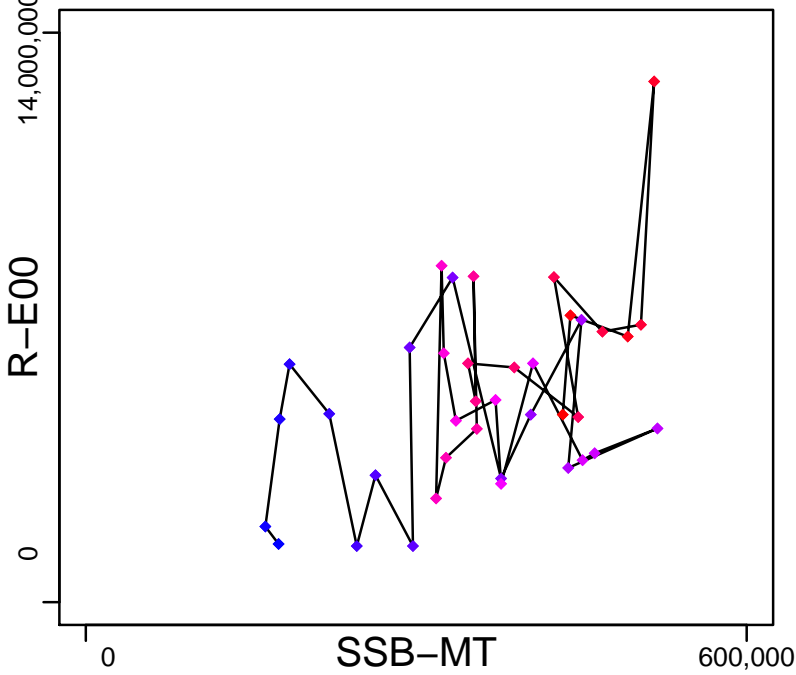
Kobe MSYpref (1979-2018-ICESIMP2018)



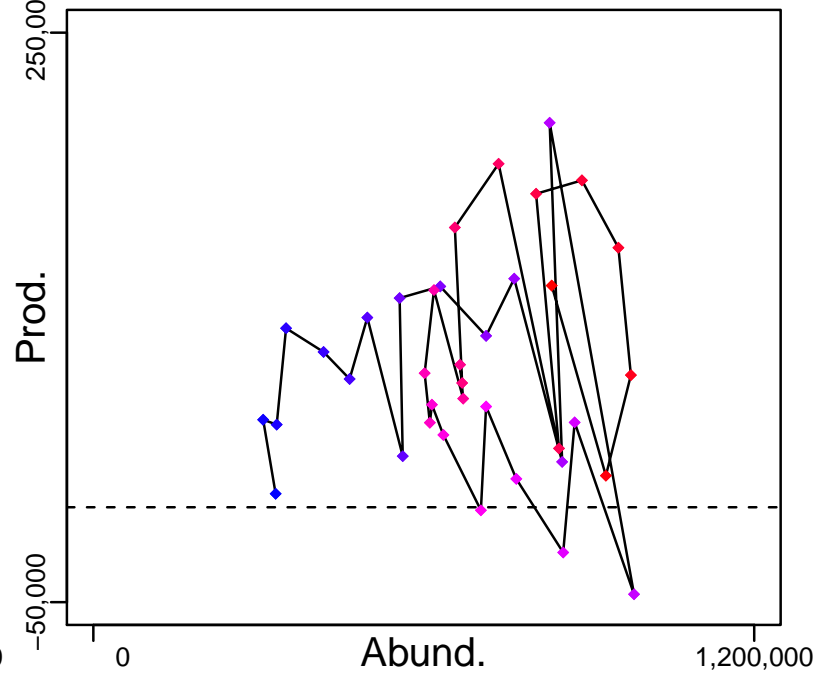
Kobe MGTpref (1979-2018-ICESIMP2018)



Spawner Recruit (1979-2018-ICESIMP2018)



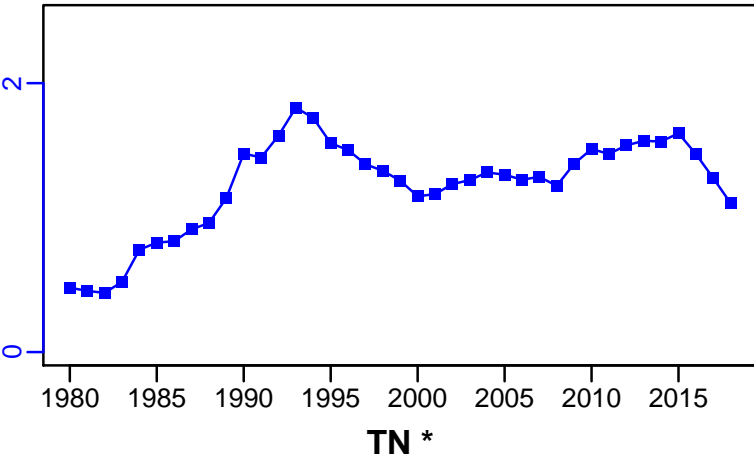
Production (1979-2018-ICESIMP2018)



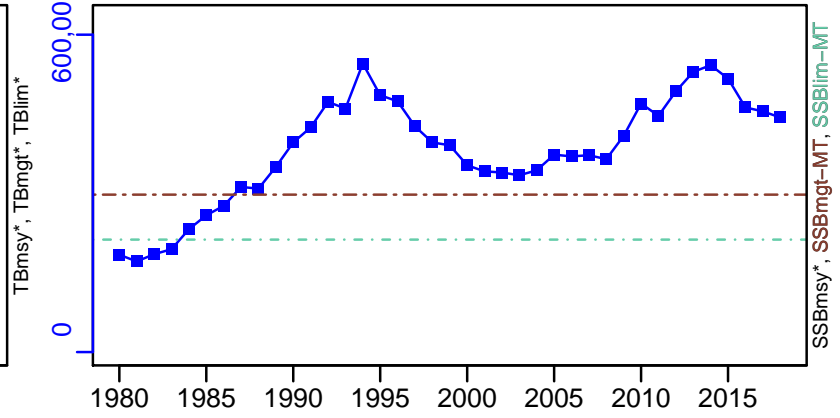
◆ Start Year ◆ End Year * No Data

Herring Subdivisions 30-31 [HERR30-31]

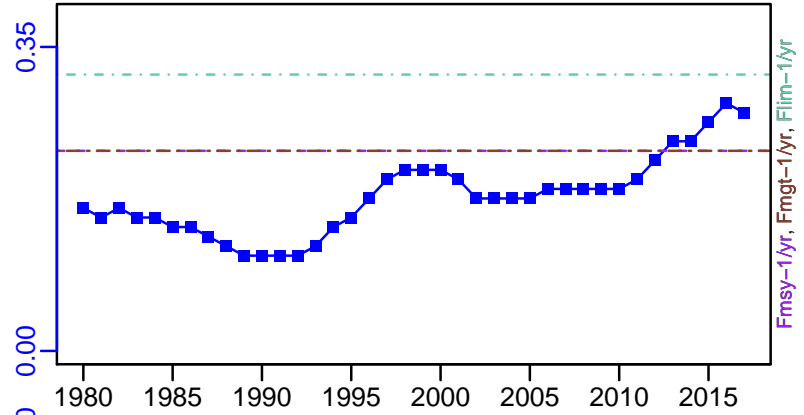
TB-relative (1979-2018-ICESIMP2021)



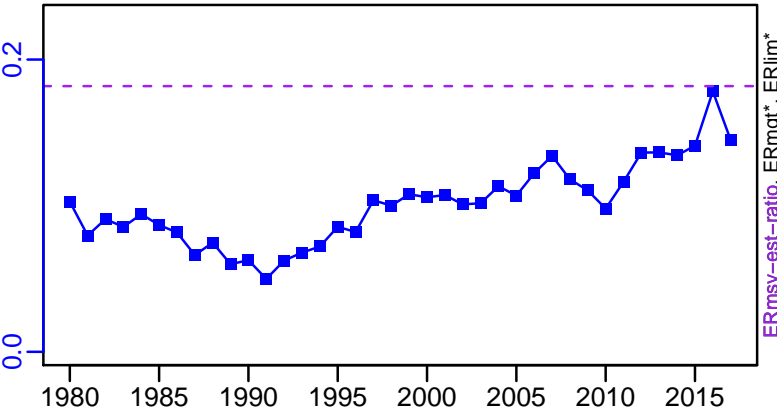
SSB-MT (1979-2018-ICESIMP2018)



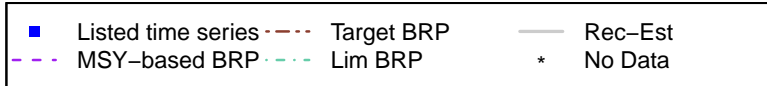
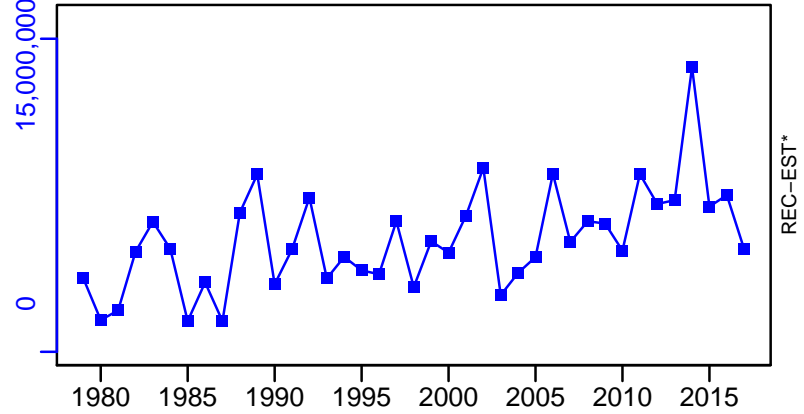
F-1/yr (1979-2018-ICESIMP2018)



ER-calc-ratio (1979-2018-ICESIMP2018)

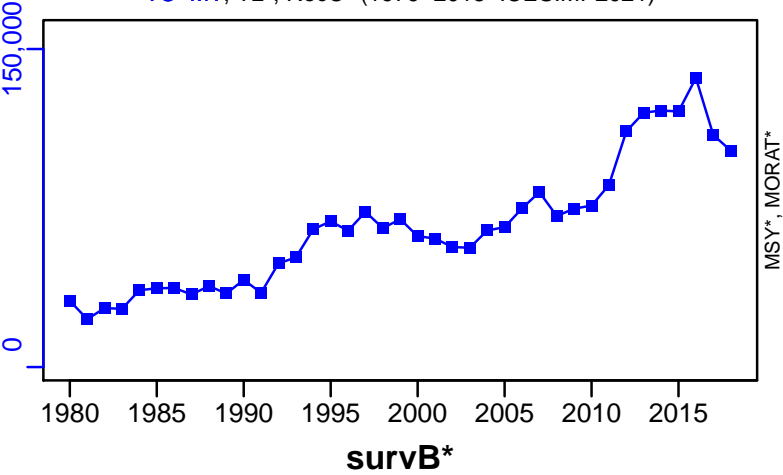


R-E00 (1979-2018-ICESIMP2018)



Herring Subdivisions 30-31 [HERR30-31]

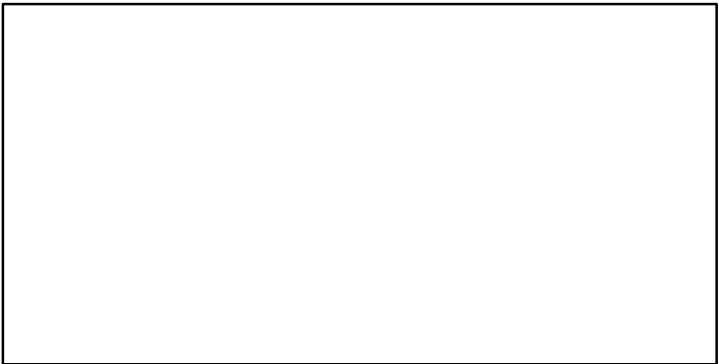
TC-MT, TL*, RecC* (1979-2018-ICESIMP2021)



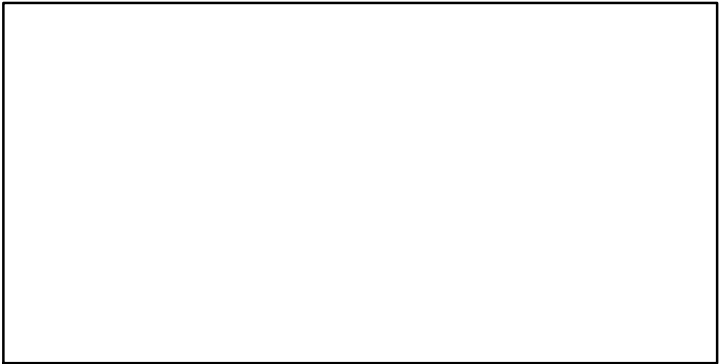
TAC*, Cpair*, Cadv*



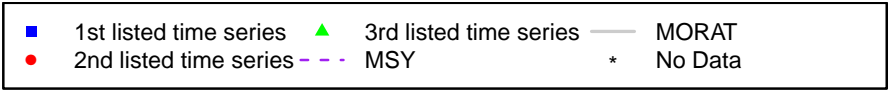
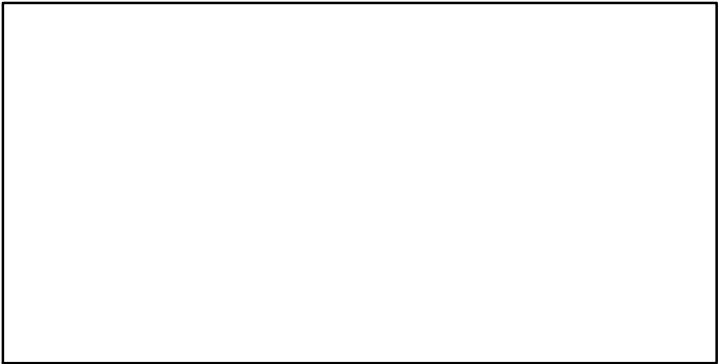
CPUE*



EFFORT*



CdivMSY*



Herring Irish Sea [HERRNIRS]

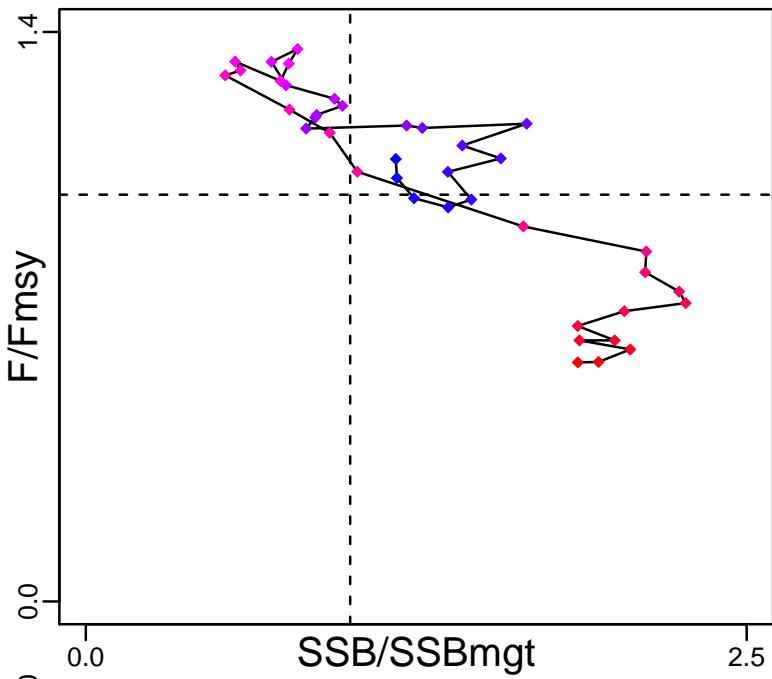
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNIRS-1979-2019-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	141,328
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.266
ERmsy	ERmsy-est-ratio	2019	0.151
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	11,831
Fmgt	Fmgt-1/yr	2019	0.266
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	19,292
M	-	-	-
TBlim	TBlim-MT	2010	6000
SSBlim	SSBlim-MT	2018	8500
Flim	Flim-1/yr	2018	0.397
ERlim	-	-	-

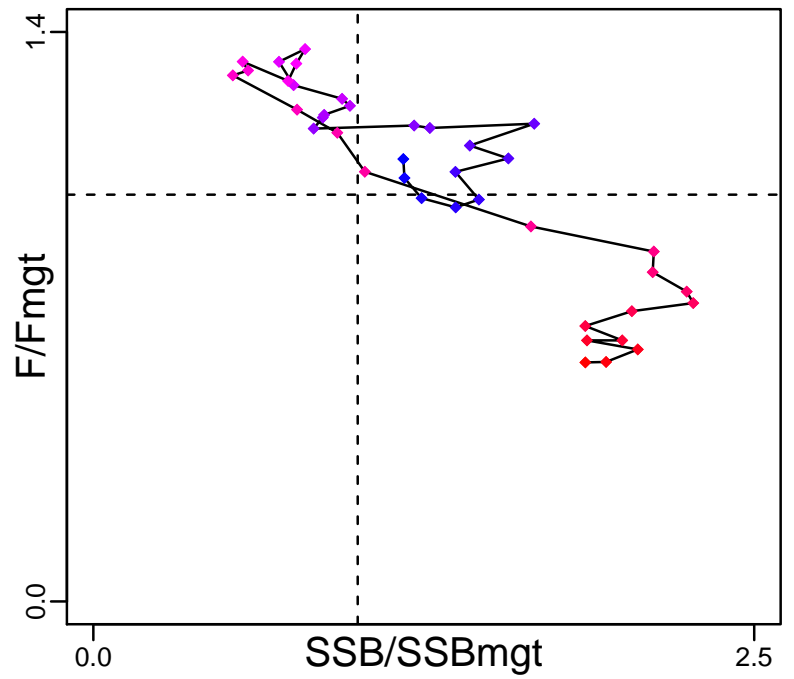
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	54,885	-	-
SSB	SSB-MT	2019	23,247	-	-
TN	-	-	-	-	-
R	R-E00	2019	300,740,000	-	1
F	F-1/yr	2019	0.156	-	4 to 6
ER	ER-calc-ratio	2019	0.124	-	-
TC	TC-MT	2019	6804		
TL	TL-MT	2019	6804		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.222		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.588		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.821		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.965		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.588		
ER/ERmgt	-	-	-		

Herring Irish Sea [HERRNIRS]

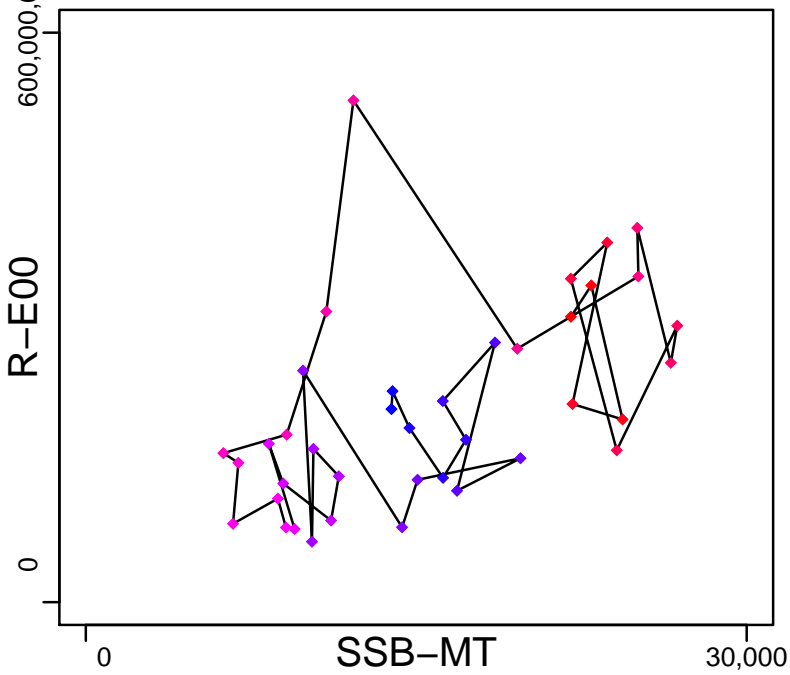
Kobe MSYpref (1979–2019–ICESIMP2021)



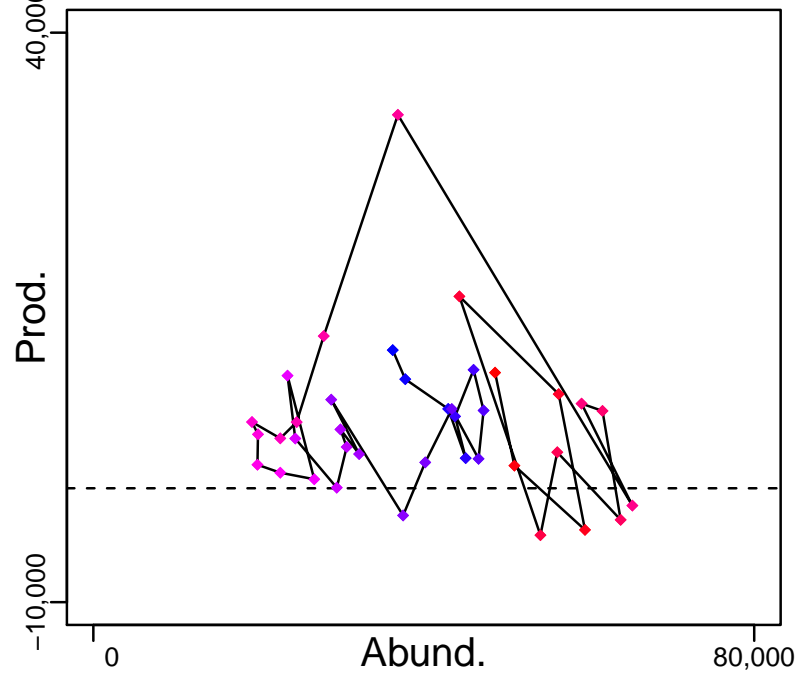
Kobe MGTpref (1979–2019–ICESIMP2021)



Spawner Recruit (1979–2019–ICESIMP2021)



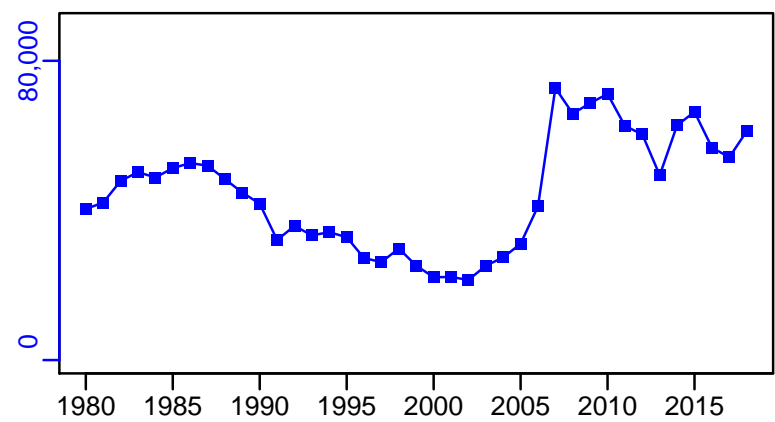
Production (1979–2019–ICESIMP2021)



◆ Start Year ◆ End Year * No Data

Herring Irish Sea [HERRNIRS]

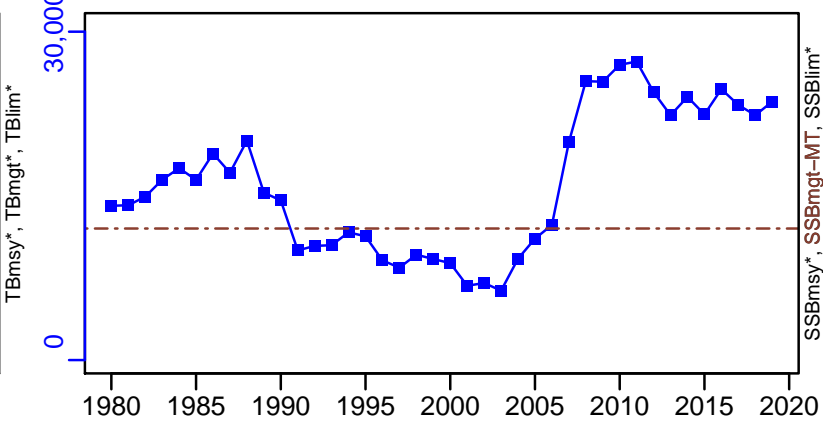
TB-MT (1979–2019–ICESIMP2021)



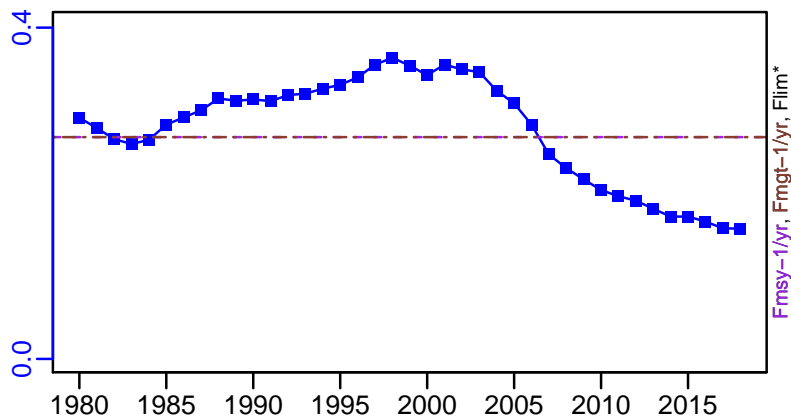
TN *



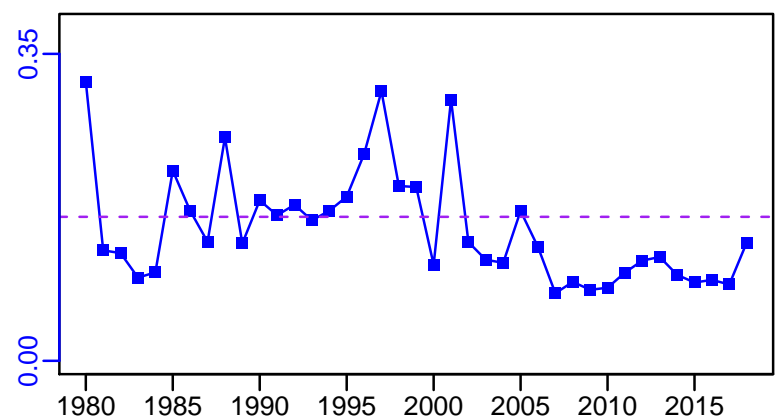
SSB-MT (1979–2019–ICESIMP2021)



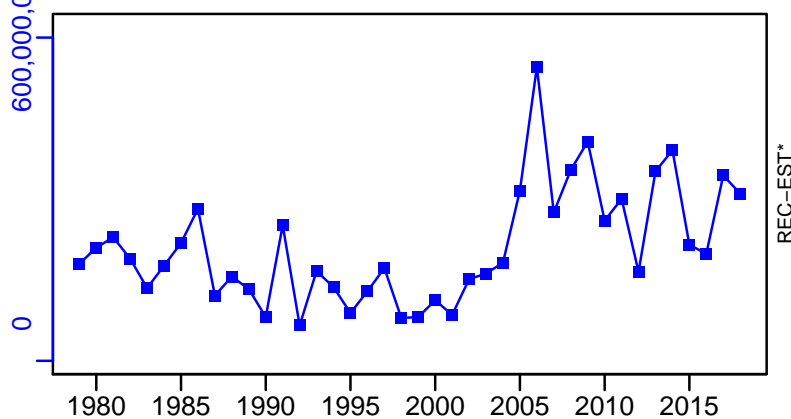
F-1/yr (1979–2019–ICESIMP2021)



ER-calc-ratio (1979–2019–ICESIMP2021)

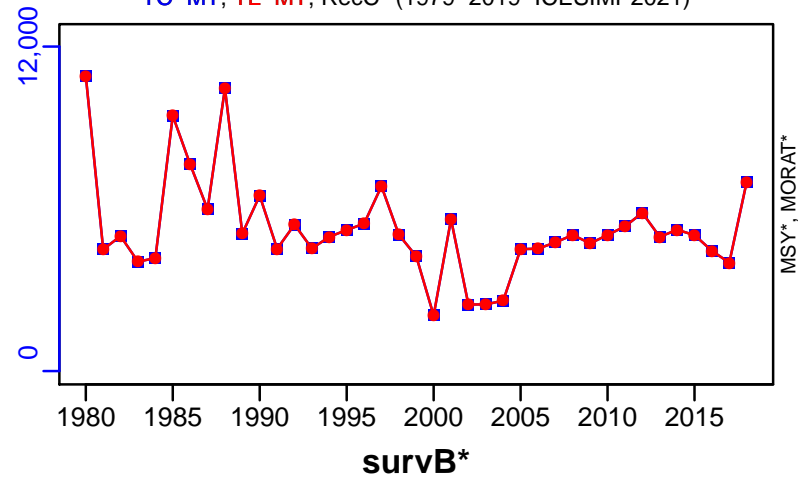


R-E00 (1979–2019–ICESIMP2021)



Herring Irish Sea [HERRNIRS]

TC-MT, TL-MT, RecC* (1979–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



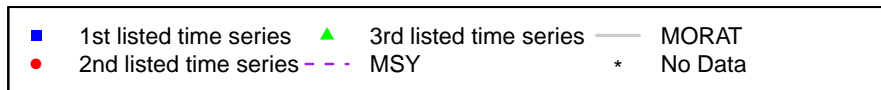
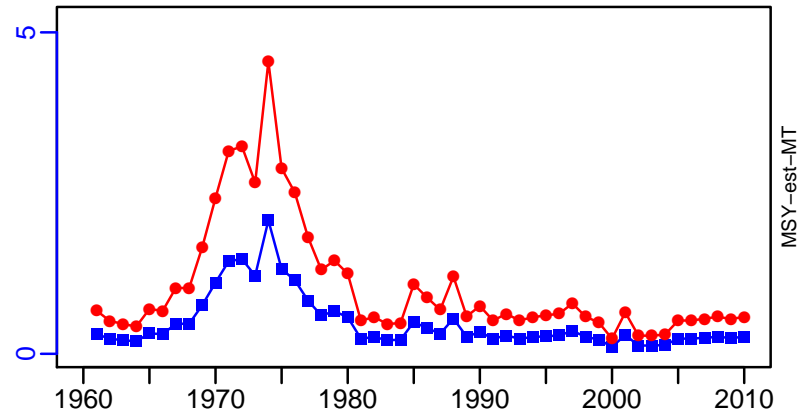
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1960–2010–NEUBAUER)



Herring ICES 3a-4-7d [HERRNS-IIIa-VIId]

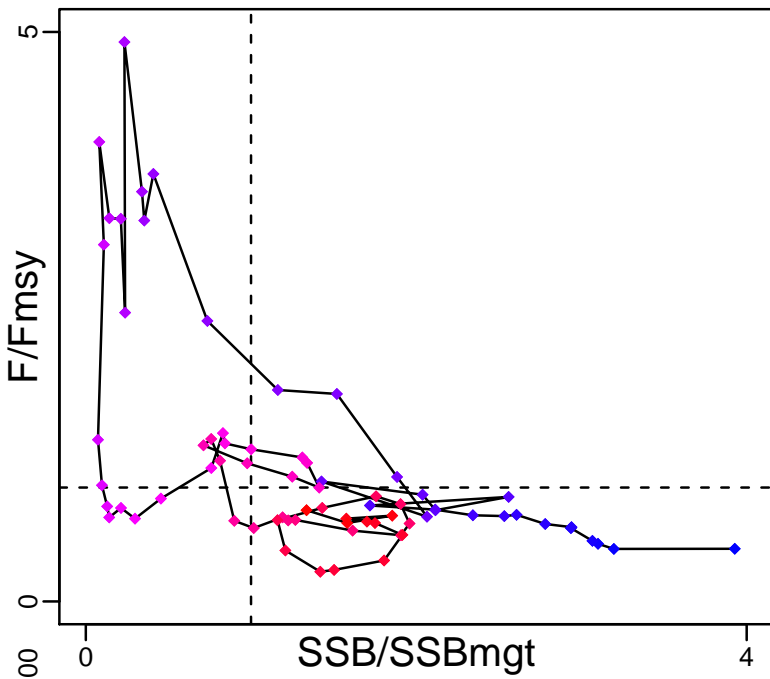
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNS-IIIa-VIId-1947-2019-ICESIMP2021
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	3,489,386
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.26
ERmsy	ERmsy-est-ratio	2019	0.048
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	1,400,000
Fmgt	Fmgt-1/yr	2019	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	583,071
M	-	-	-
TBlim	TBlim-MT	2011	8×10^5
SSBlim	SSBlim-MT	2018	8×10^5
Flim	Flim-1/yr	2018	0.34
ERlim	-	-	-

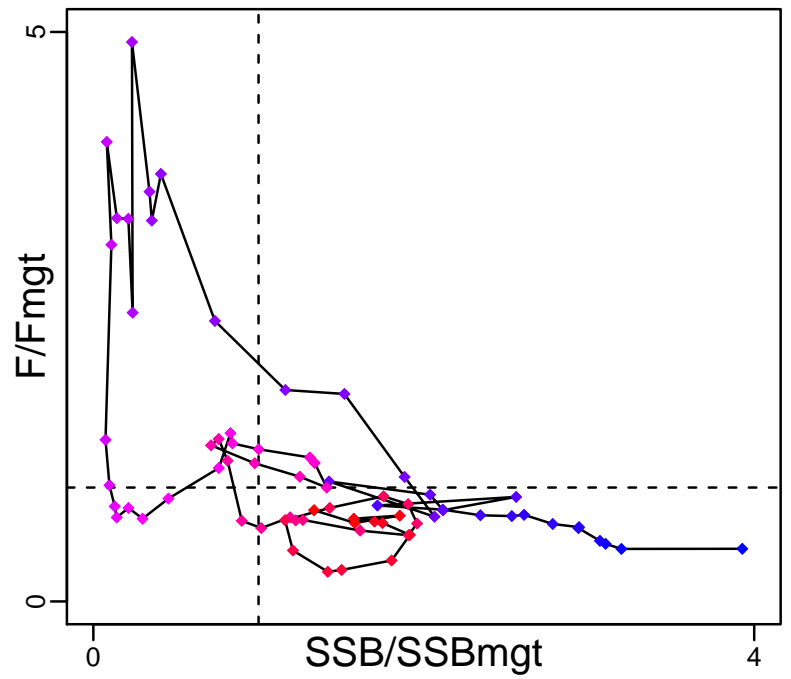
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	3,243,613	-	-
SSB	SSB-MT	2019	1,529,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	26,191,234,000	-	0
F	F-1/yr	2019	0.208	-	2 to 6
ER	ER-calc-ratio	2019	0.158	-	-
TC	TC-MT	2019	603,536		
TL	TL-MT	2017	564,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.92		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.801		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	3.308		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.092		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.801		
ER/ERmgt	-	-	-		

Herring ICES 3a–4–7d [HERRNS–IIIa–VIIId]

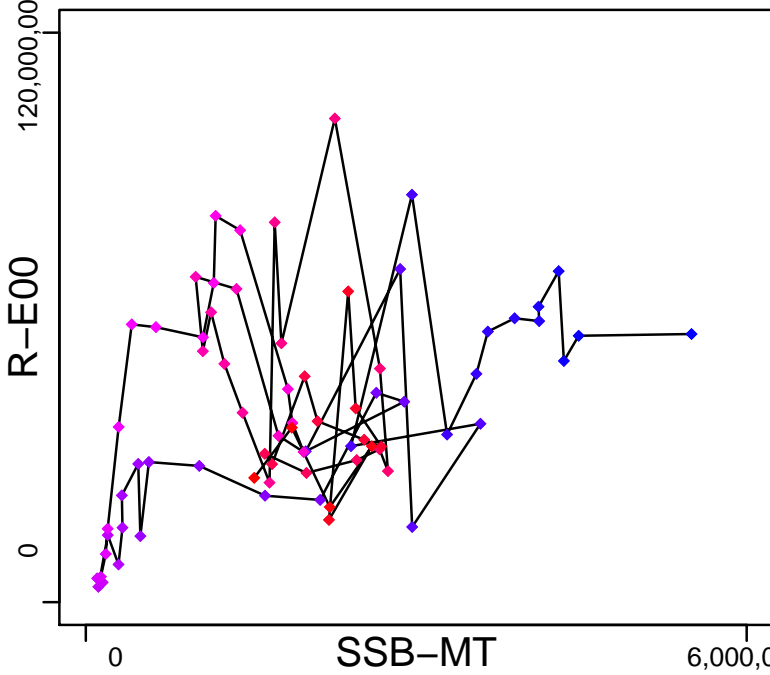
Kobe MSYpref (1947–2019–ICESIMP2021)



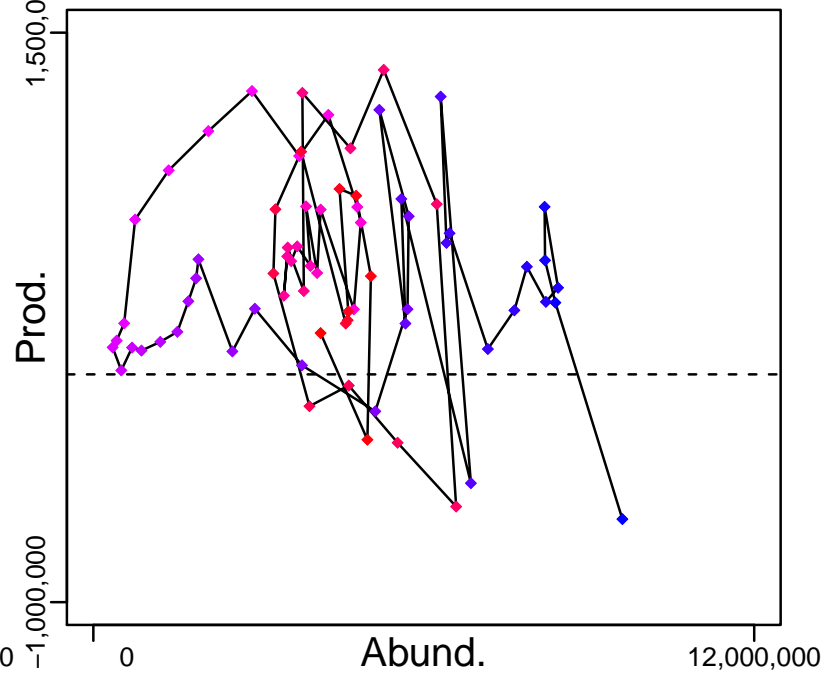
Kobe MGTpref (1947–2019–ICESIMP2021)



Spawner Recruit (1947–2019–ICESIMP2021)



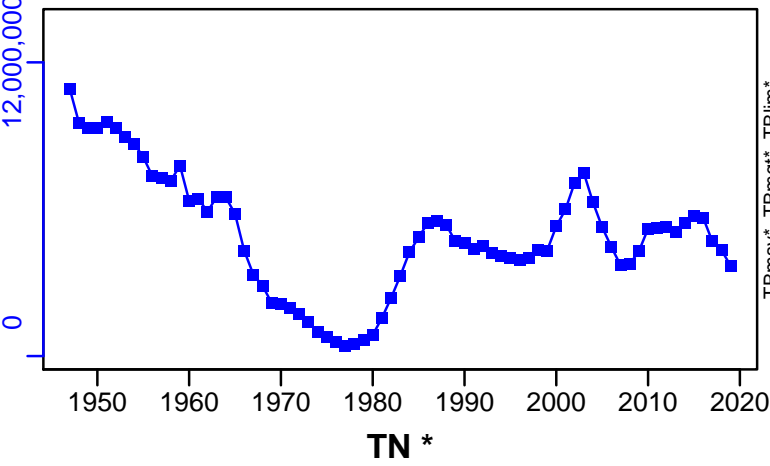
Production (1947–2019–ICESIMP2021)



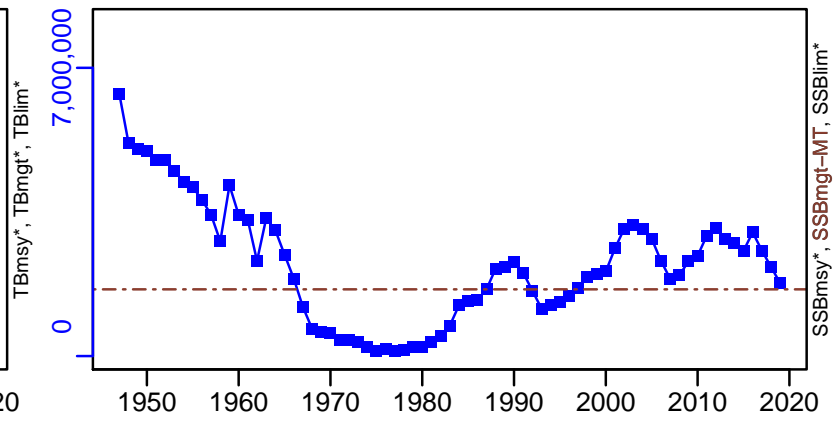
◆ Start Year ◆ End Year * No Data

Herring ICES 3a-4-7d [HERRNS-IIIa-VIId]

TB-MT (1947-2019-ICESIMP2021)



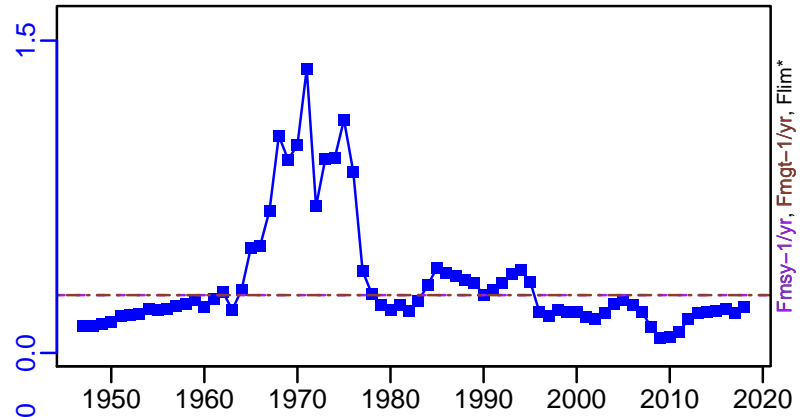
SSB-MT (1947-2019-ICESIMP2021)



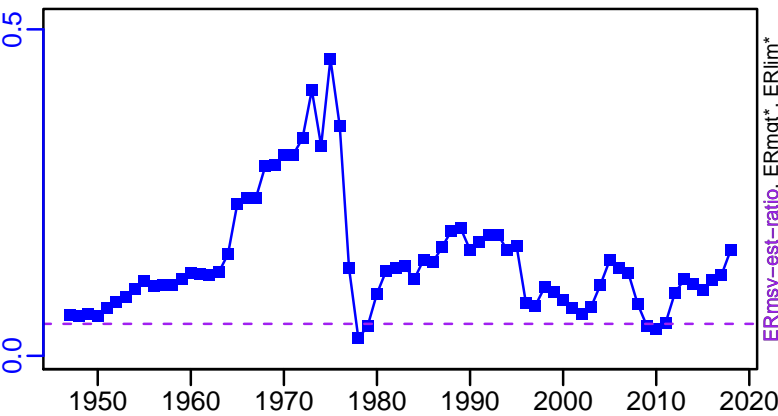
TN *



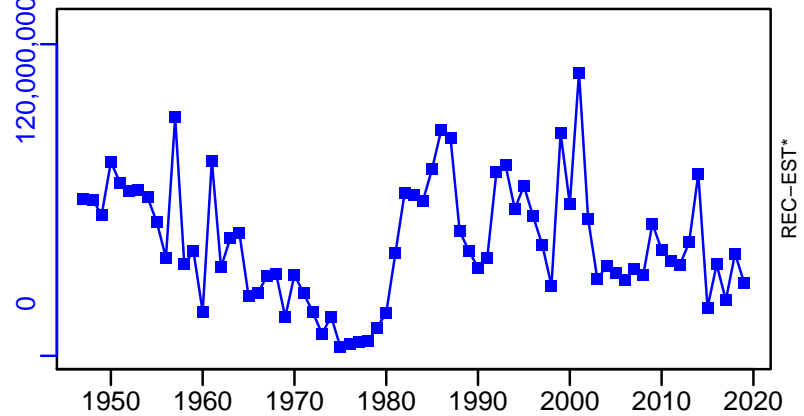
F-1/yr (1947-2019-ICESIMP2021)



ER-calc-ratio (1947-2019-ICESIMP2021)



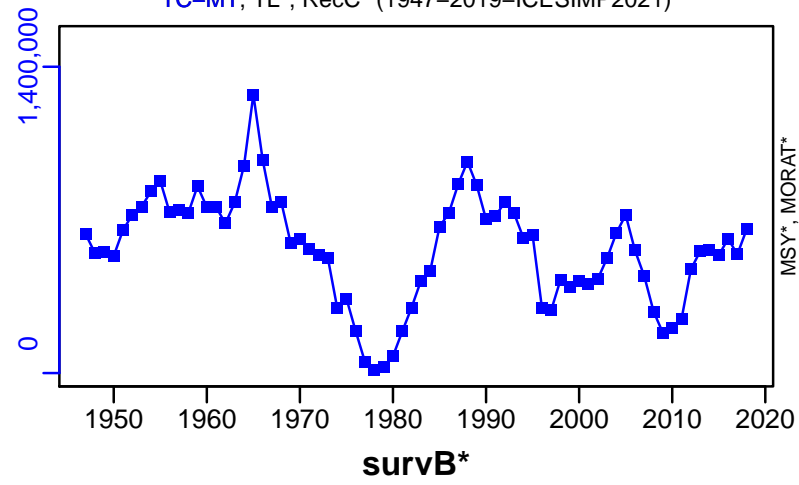
R-E00 (1947-2019-ICESIMP2021)



Herring ICES 3a–4–7d [HERRNS–IIIa–VIIId]

TC–MT, TL*, RecC* (1947–2019–ICESIMP2021)

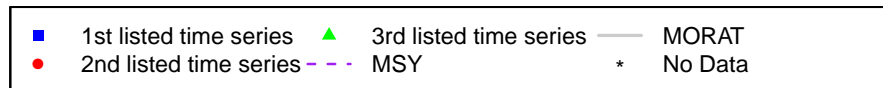
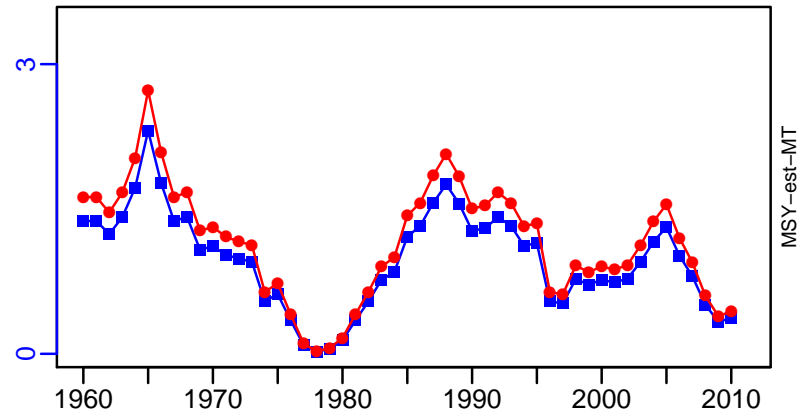
TAC*, Cpair*, Cadv*



EFFORT*



TL–MT/MSY–est–MT, CdivMEANC–ratio, (1960–2011–NEUBAUER)



Herring Gulf of Riga East of Gotland [HERRRIGA]

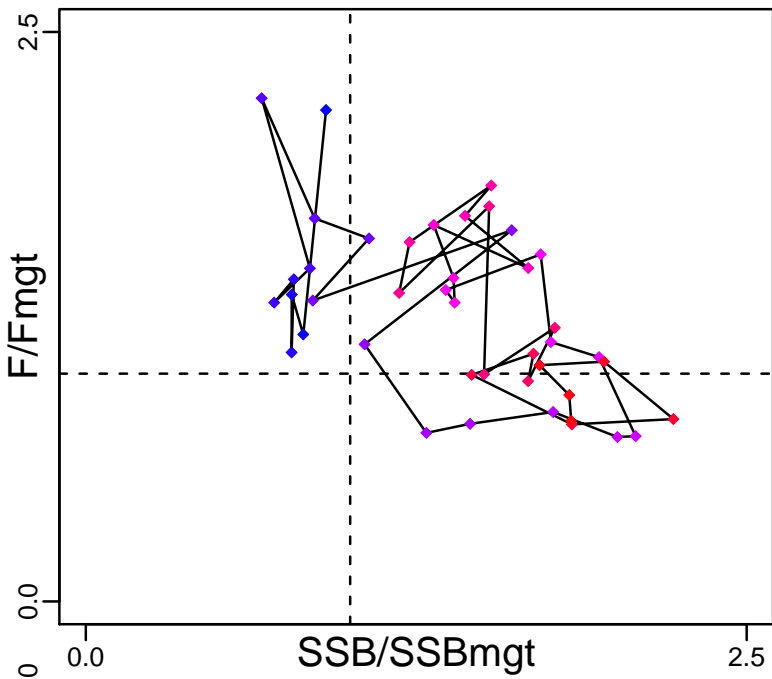
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERRRIGA-1976-2019-ICESIMP2021
Area	Gulf of Riga East of Gotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	60,000
Fmsy	Fmsy-1/yr	2018	0.32
ERmsy	ERmsy-est-ratio	2019	0.279
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	60,000
Fmgt	Fmgt-1/yr	2019	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	28,776
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	40,800
Flim	Flim-1/yr	2018	0.88
ERlim	-	-	-

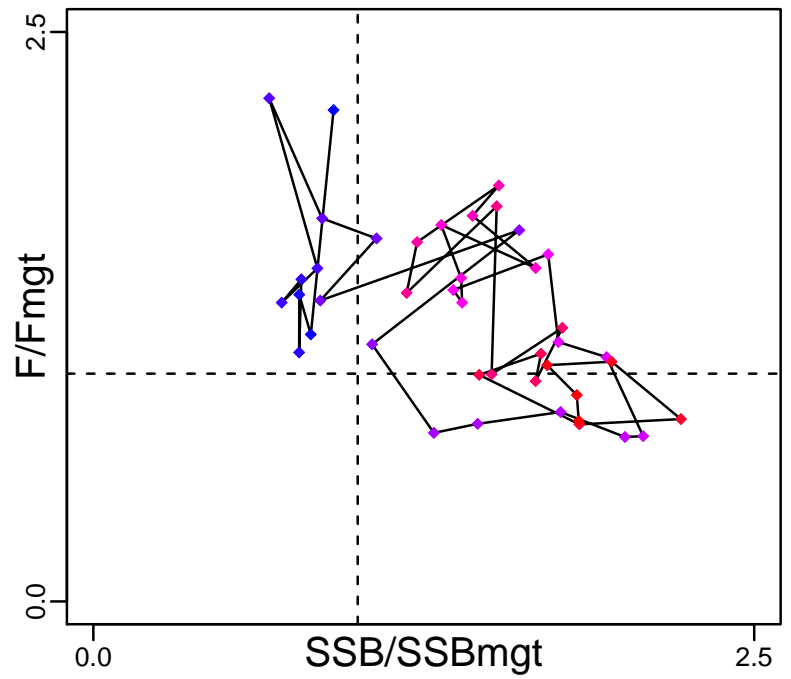
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	177,796	-	-
SSB	SSB-MT	2019	109,238	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,099,173,000	-	1
F	F-1/yr	2019	0.254	-	3 to 7
ER	ER-calc-ratio	2019	0.145	-	-
TC	TC-MT	2017	30,900		
TL	TL-MT	2019	25,747		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	1.262		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.003		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.519		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.821		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.792		
ER/ERmgt	-	-	-		

Herring Gulf of Riga East of Gotland [HERRRIGA]

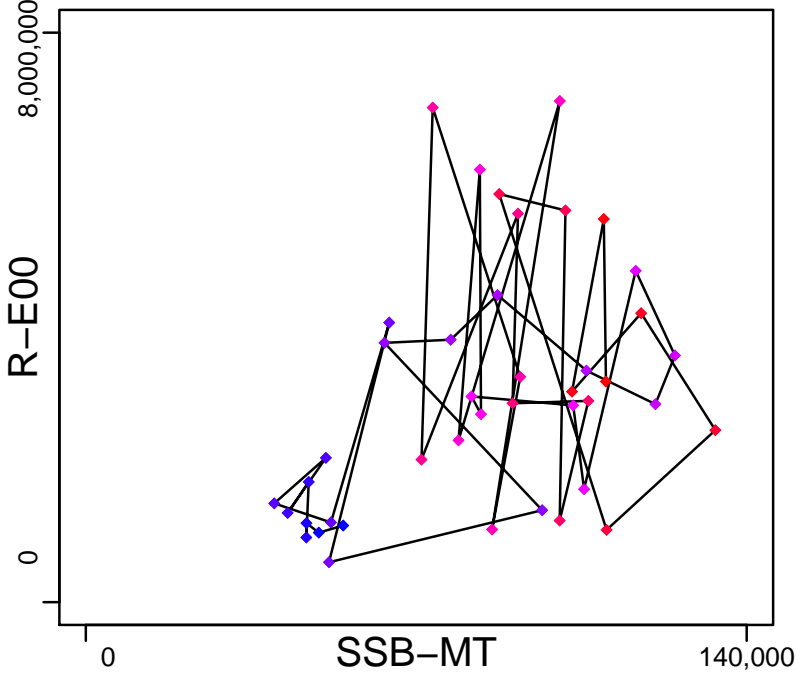
Kobe MSYpref (1976–2019–ICESIMP2021)



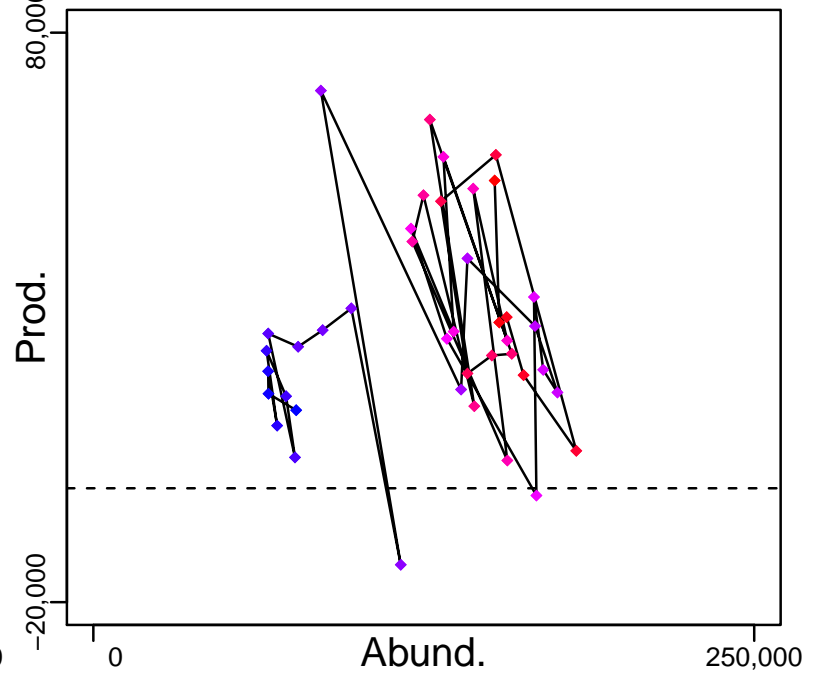
Kobe MGTpref (1976–2019–ICESIMP2021)



Spawner Recruit (1976–2019–ICESIMP2021)



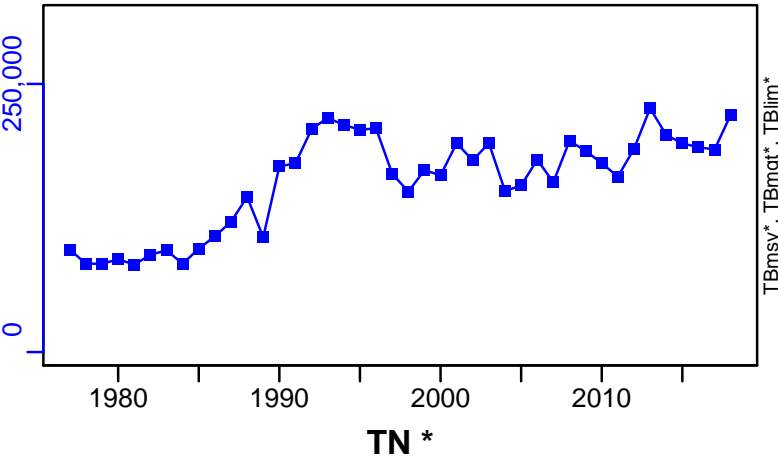
Production (1976–2019–ICESIMP2021)



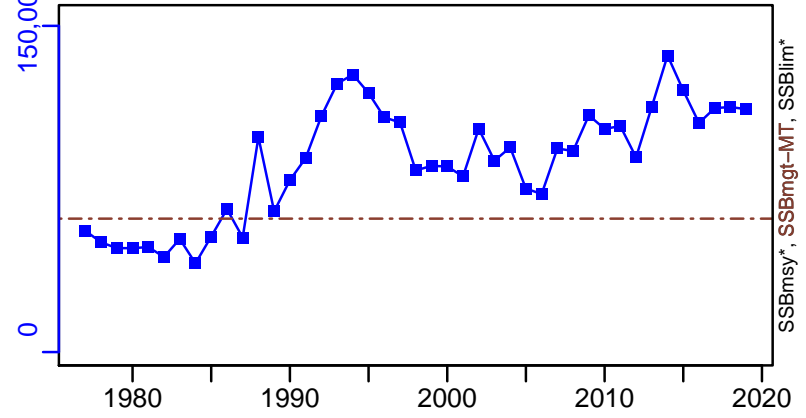
◆ Start Year ◆ End Year * No Data

Herring Gulf of Riga East of Gotland [HERRRIGA]

TB-MT (1976–2019–ICESIMP2021)



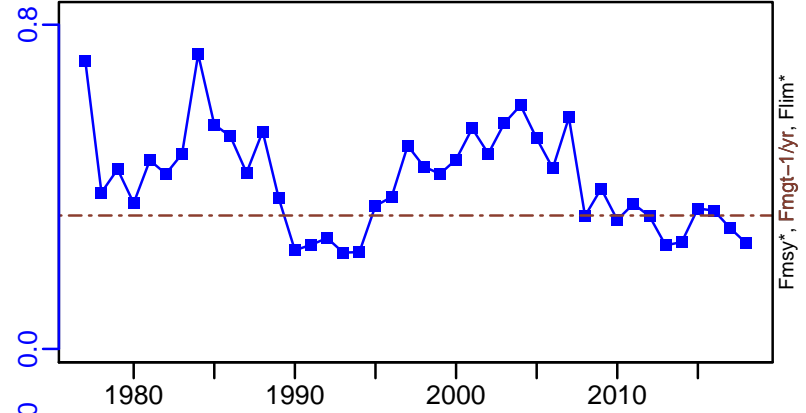
SSB-MT (1976–2019–ICESIMP2021)



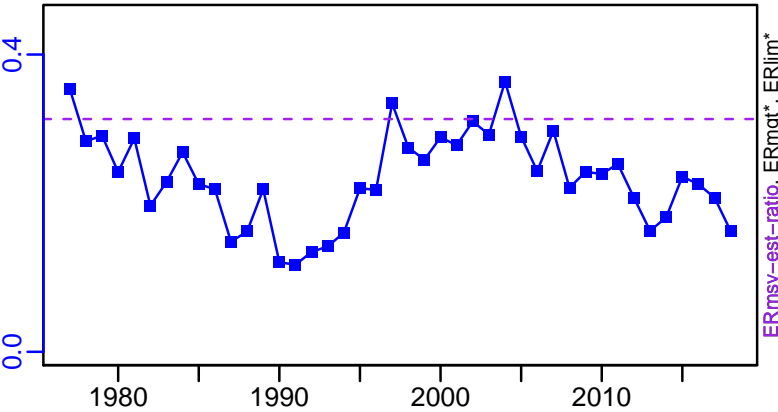
TN *



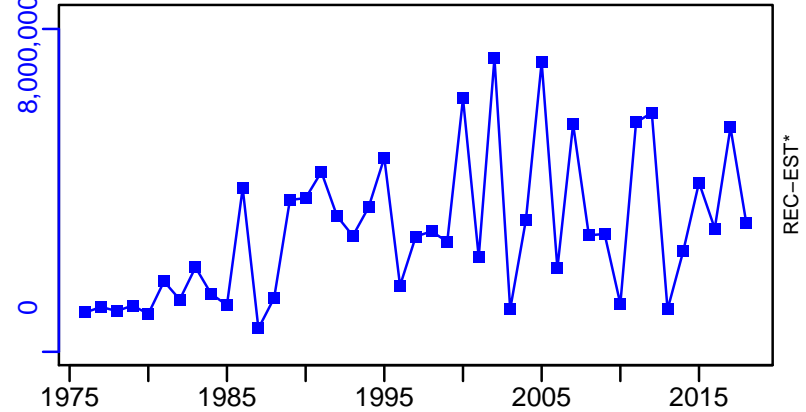
F-1/yr (1976–2019–ICESIMP2021)



ER-calc-ratio (1976–2019–ICESIMP2021)

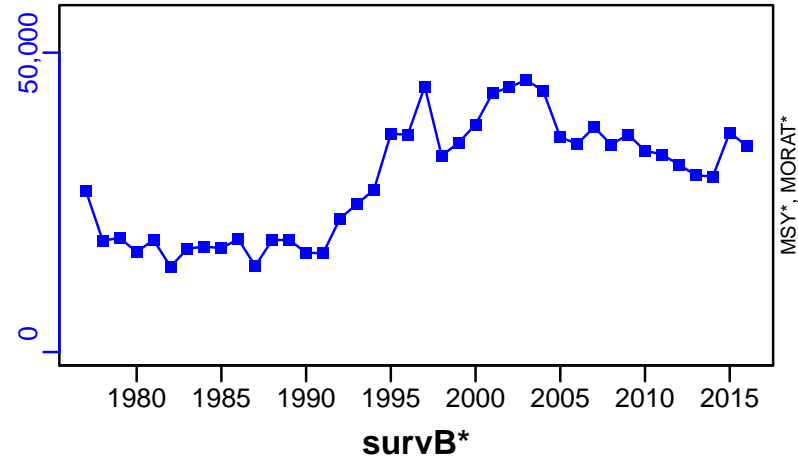


R-E00 (1976–2019–ICESIMP2021)



Herring Gulf of Riga East of Gotland [HERRRIGA]

TC-MT, TL*, RecC* (1976–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



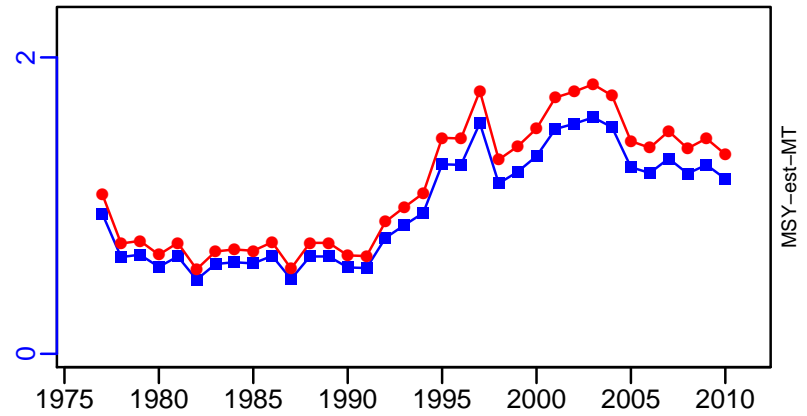
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1976–2011–NEUBAUER)



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

Herring ICES 7a-g-h-j-k [HERRSIRS]

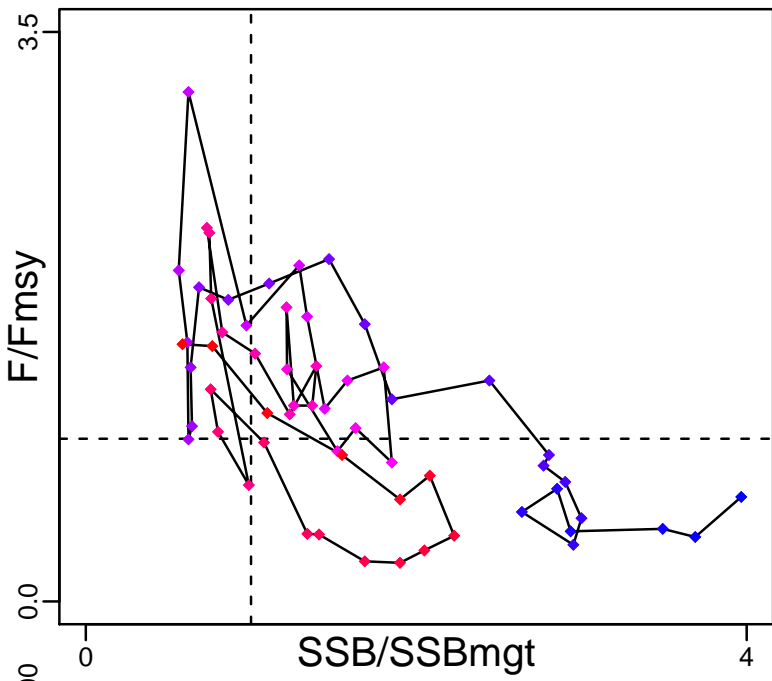
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRSIRS-1957-2018-ICESIMP2018
Area	ICES 7a-g-h-j-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	92,458
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.26
ERmsy	ERmsy-est-ratio	2018	0.151
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	61,000
Fmgt	Fmgt-1/yr	2018	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	23,196
M	-	-	-
TBlim	TBlim-MT	2010	26,000
SSBlim	SSBlim-MT	2018	54,000
Flim	Flim-1/yr	2018	0.45
ERlim	-	-	-

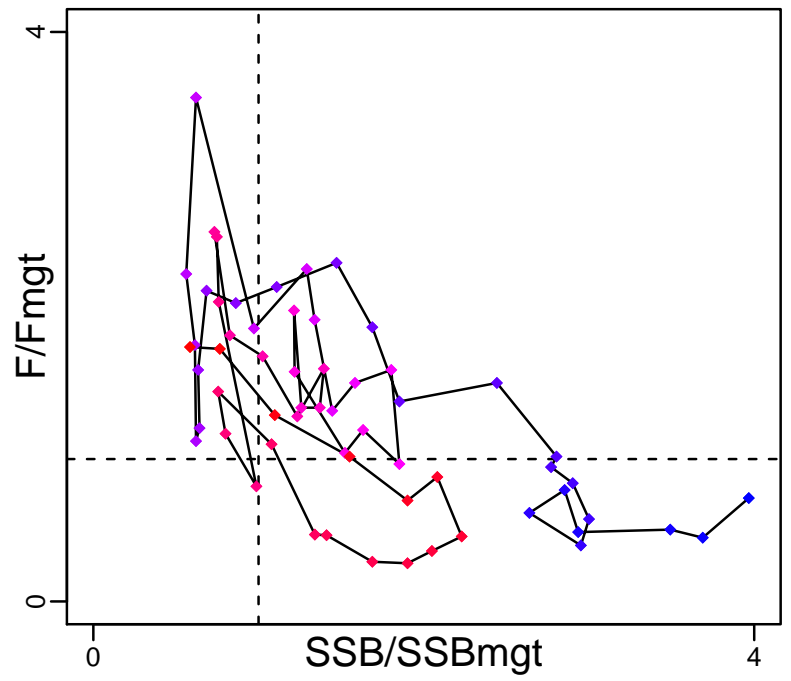
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	61,300	Both	-
SSB	SSB-MT	2018	34,200	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.38×10^8	-	1
F	F-1/yr	2018	0.411	-	2 to 5
ER	ER-calc-ratio	2018	0.176	-	-
TC	TC-MT	2018	10,800		
TL	TL-MT	2018	10,800		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	1.763		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.581		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	1.17		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.561		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.787		
ER/ERmgt	-	-	-		

Herring ICES 7a-g-h-j-k [HERRSIRS]

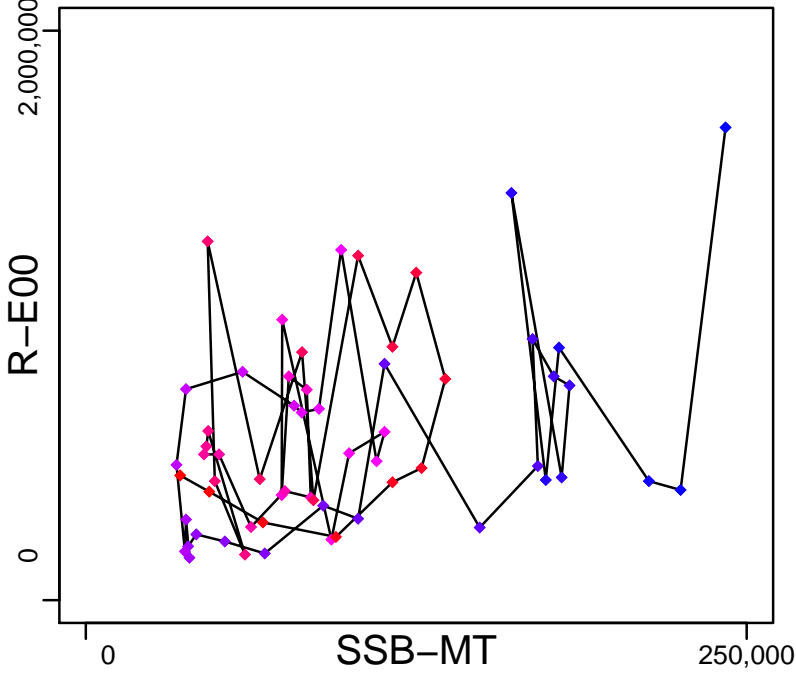
Kobe MSYpref (1957–2018–ICESIMP2018)



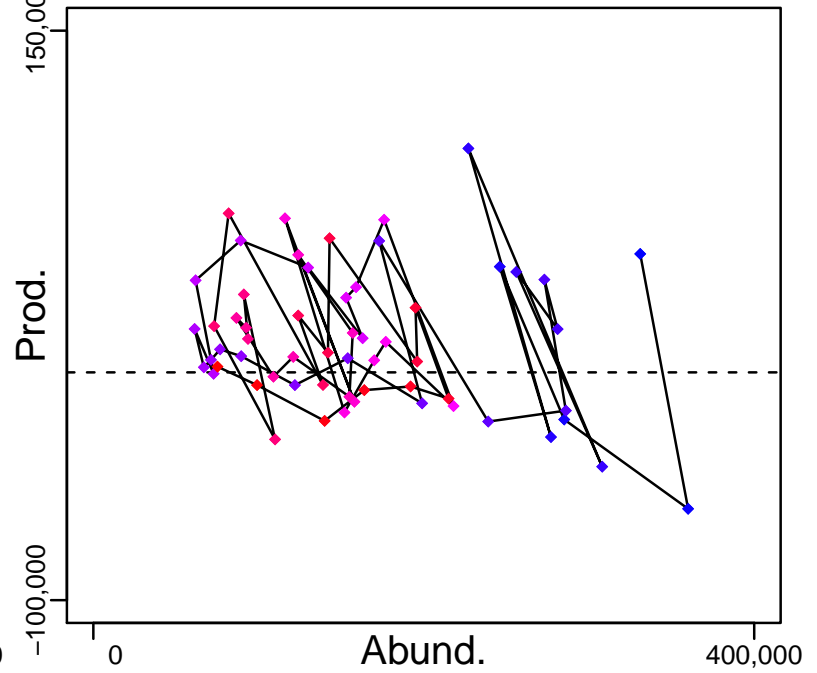
Kobe MGTpref (1957–2018–ICESIMP2018)



Spawner Recruit (1957–2018–ICESIMP2018)



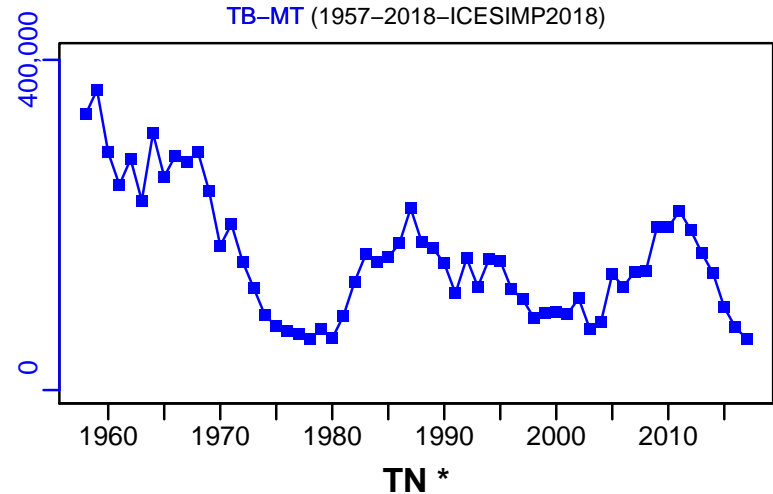
Production (1957–2018–ICESIMP2018)



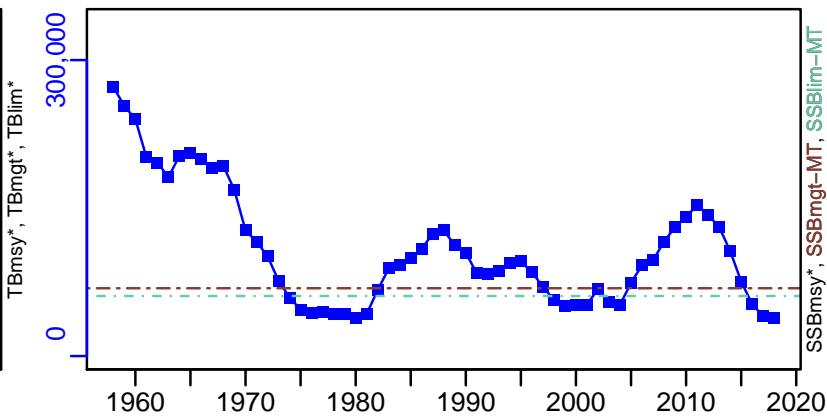
◆ Start Year ◆ End Year * No Data

Herring ICES 7a-g-h-j-k [HERRSIRS]

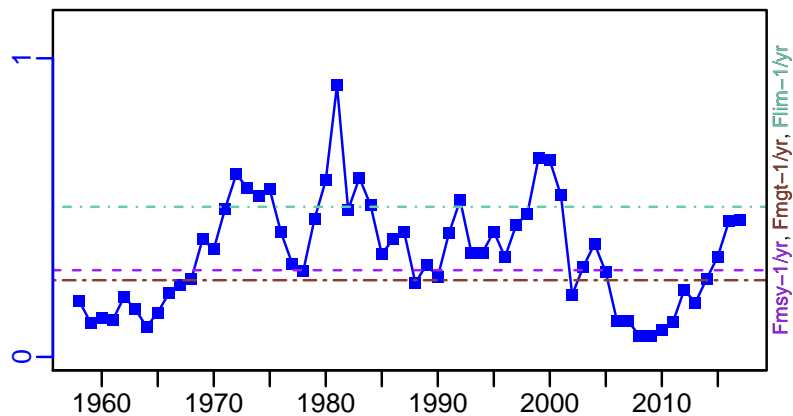
TB-MT (1957–2018–ICESIMP2018)



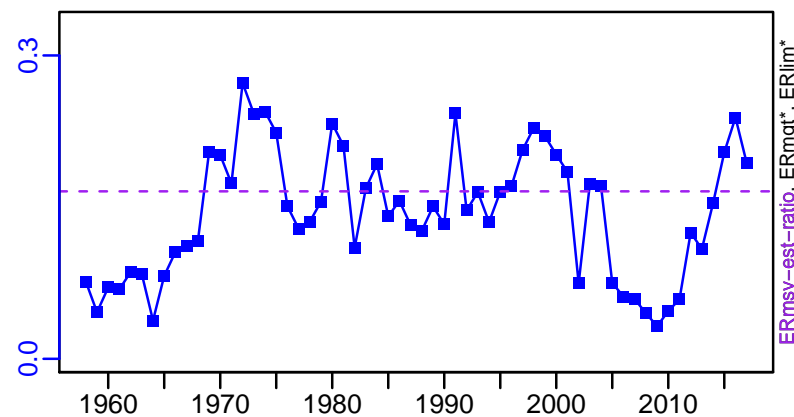
SSB-MT (1957–2018–ICESIMP2018)



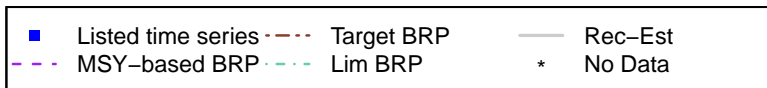
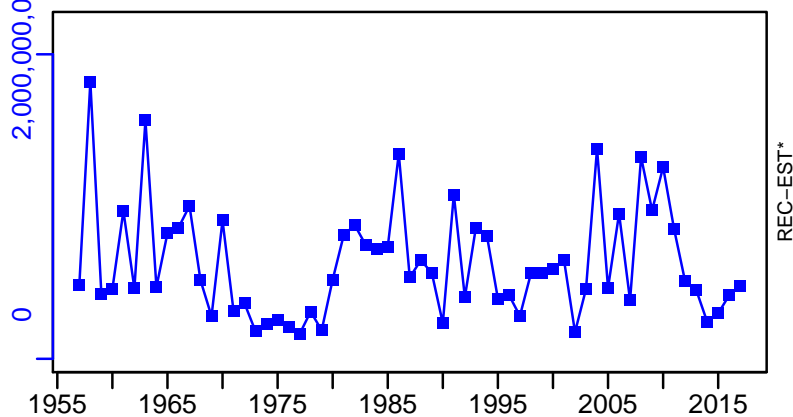
F-1/yr (1957–2018–ICESIMP2018)



ER-calc-ratio (1957–2018–ICESIMP2018)



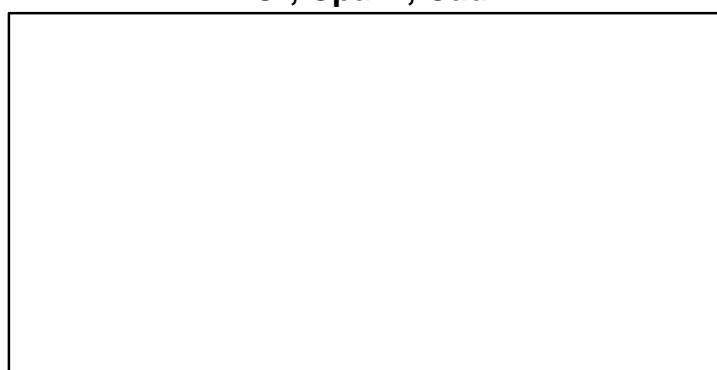
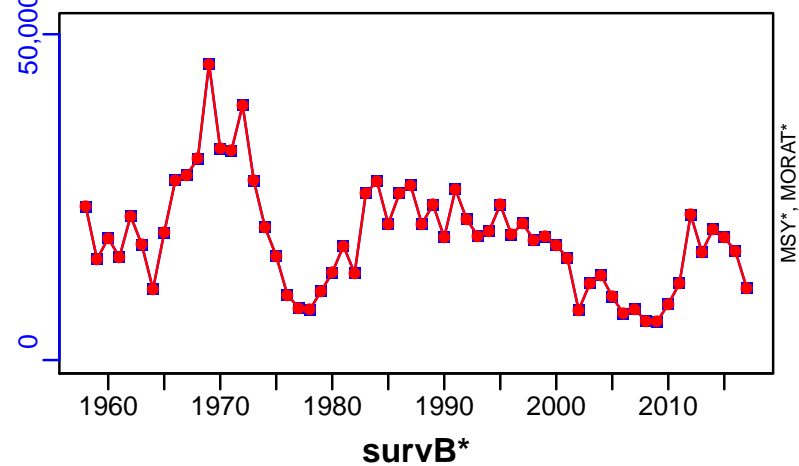
R-E00 (1957–2018–ICESIMP2018)



Herring ICES 7a-g-h-j-k [HERRSIRS]

TC-MT, TL-MT, RecC* (1957-2018-ICESIMP2018)

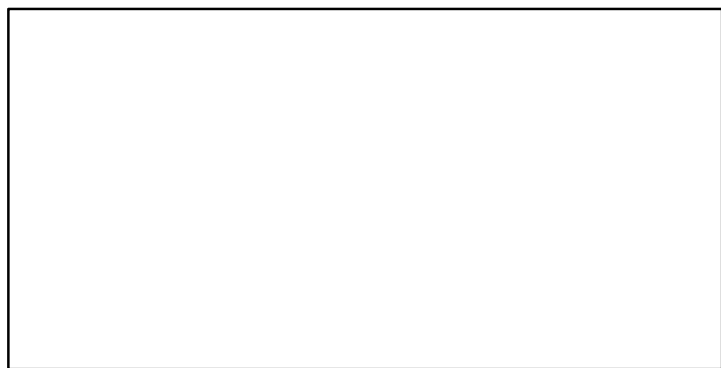
TAC*, Cpair*, Cadv*



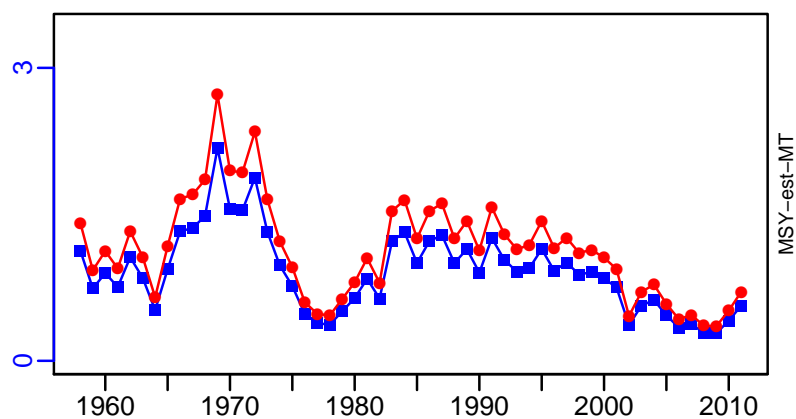
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1957-2012-ICESIMP2016)



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

Herring West of Scotland [HERRVla]

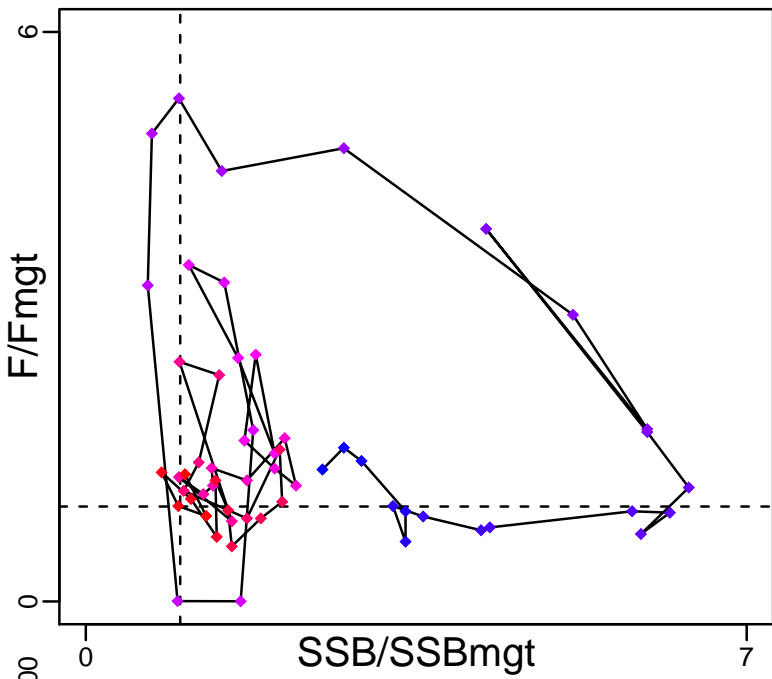
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVla-1956-2014-ICESIMP2016
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	594,800
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2010	0.25
ERmsy	ERmsy-est-ratio	2013	0.155
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	75,000
Fmgt	Fmgt-1/yr	2014	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	91,953
M	-	-	-
TBlim	TBlim-MT	2010	50,000
SSBlim	SSBlim-MT	2014	50,000
Flim	-	-	-
ERlim	-	-	-

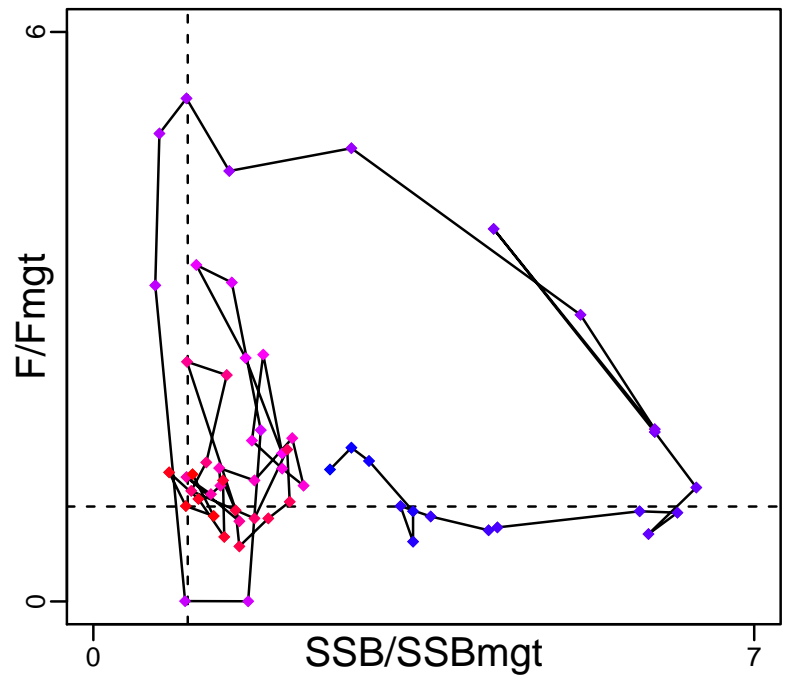
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	114,000	Both	-
SSB	SSB-MT	2014	78,800	Both	-
TN	-	-	-	-	-
R	R-E00	2014	6×10^8	-	1
F	F-1/yr	2014	0.268	-	3 to 6 ringer
ER	ER-calc-ratio	2014	0.202	-	-
TC	-	-	-		
TL	TL-MT	2014	23,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.331		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	1.064		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2013	0.607		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.051		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.34		
ER/ERmgt	-	-	-		

Herring West of Scotland [HERRVIa]

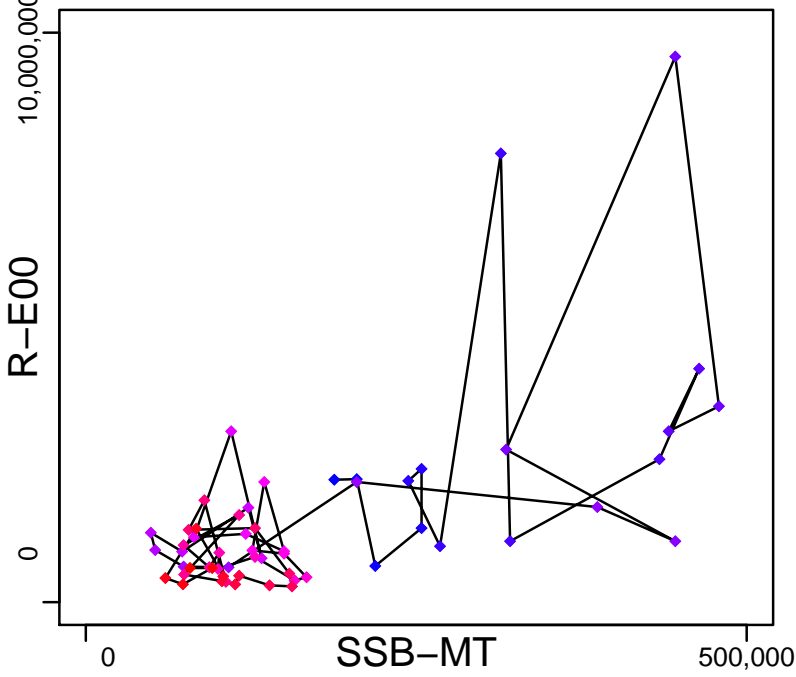
Kobe MSYpref (1956–2014–ICESIMP2016)



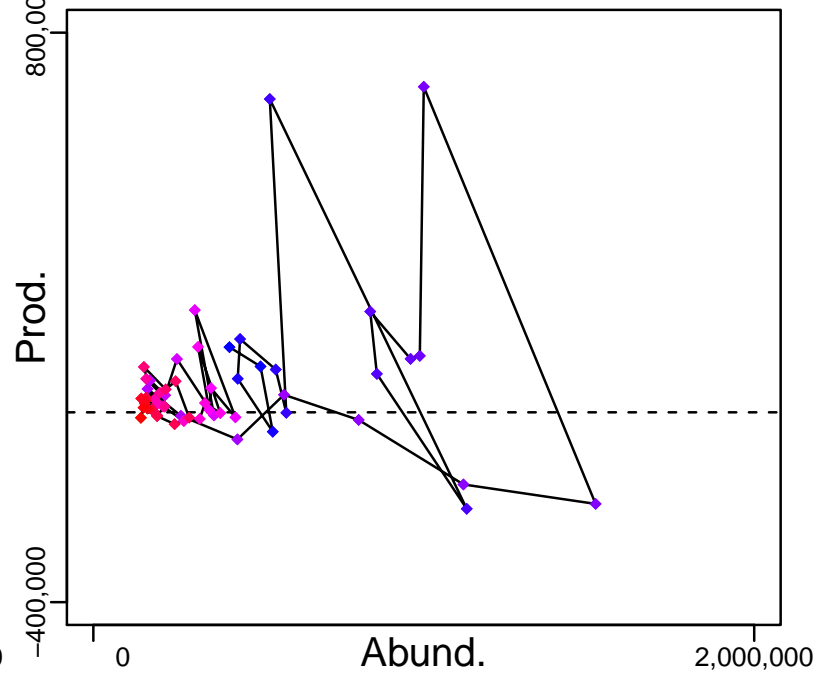
Kobe MGTpref (1956–2014–ICESIMP2016)



Spawner Recruit (1956–2014–ICESIMP2016)



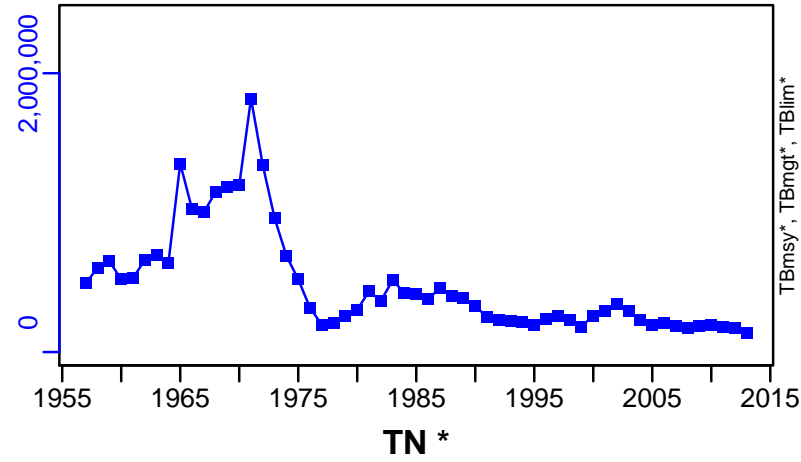
Production (1956–2014–ICESIMP2016)



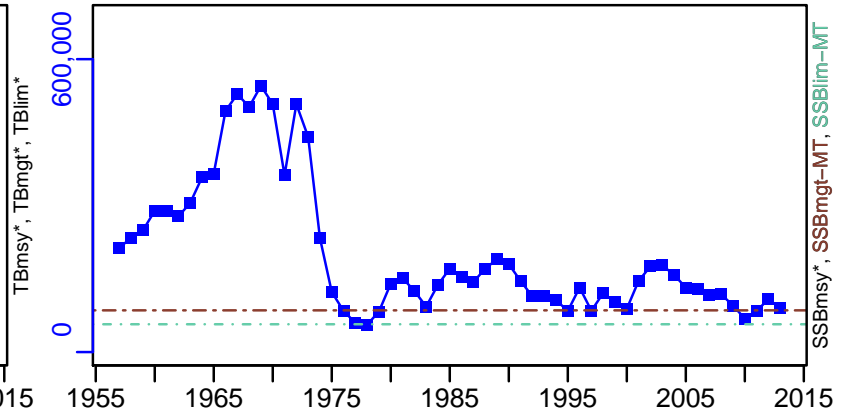
◆ Start Year ◆ End Year * No Data

Herring West of Scotland [HERRVIa]

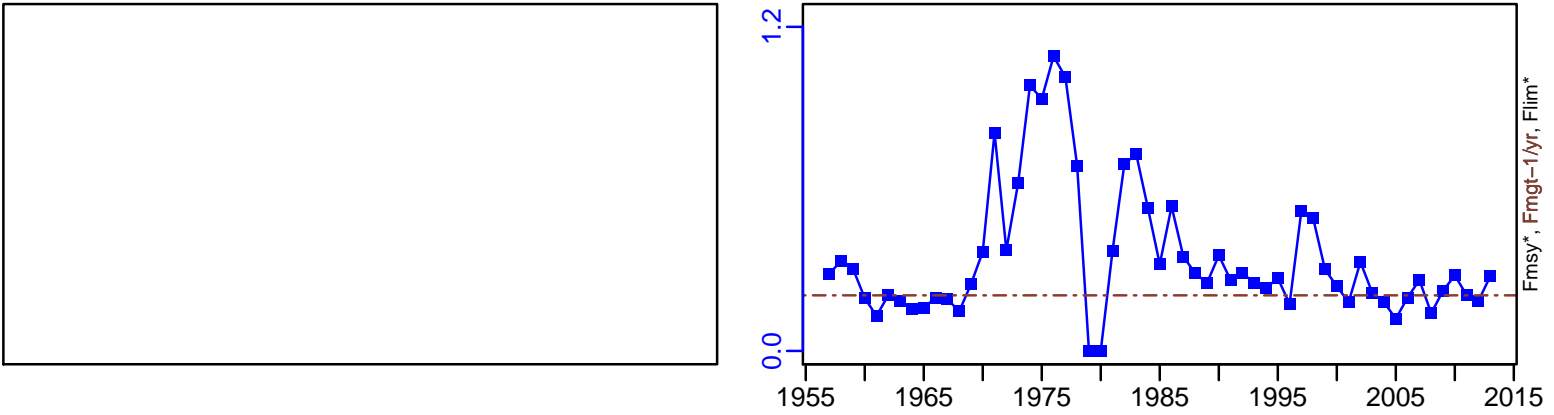
TB-MT (1956–2014–ICESIMP2016)



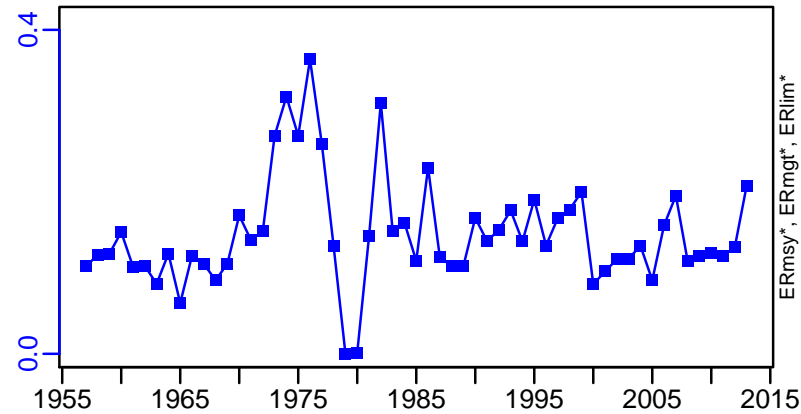
SSB-MT (1956–2014–ICESIMP2016)



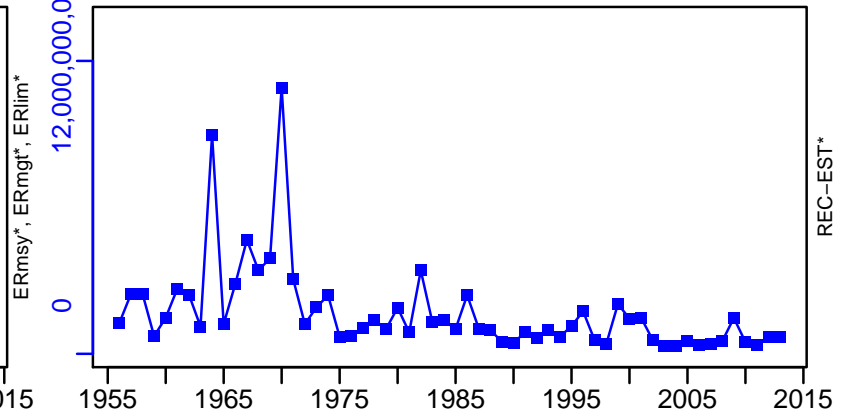
F-1/yr (1956–2014–ICESIMP2016)



ER-calc-ratio (1956–2014–ICESIMP2016)

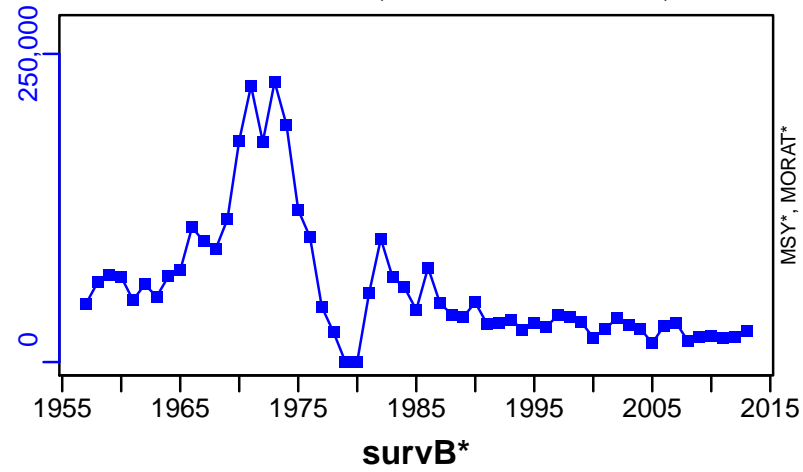


R-E00 (1956–2014–ICESIMP2016)



Herring West of Scotland [HERRVla]

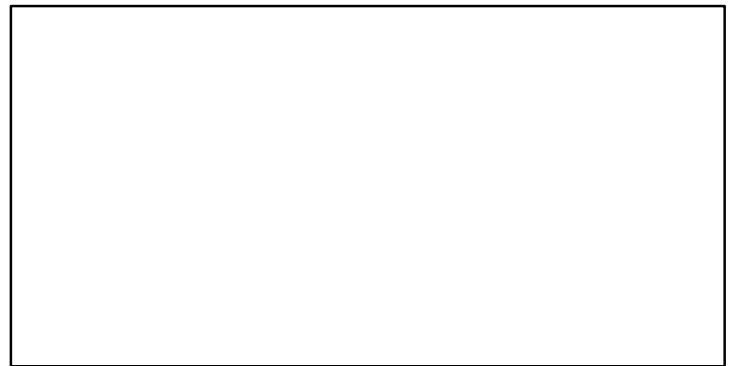
TL-MT, TC*, RecC* (1956–2014–ICESIMP2016)



TAC*, Cpair*, Cadv*



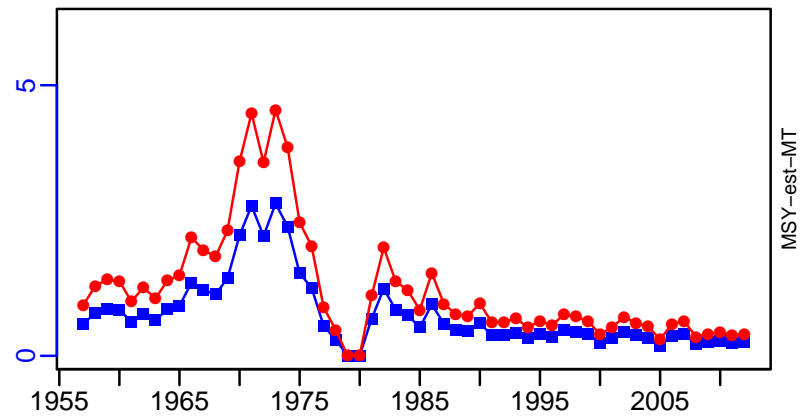
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1956–2013–ICESIMP2016)



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

Herring ICES 5a-7bc [HERRVIaVIIbc]

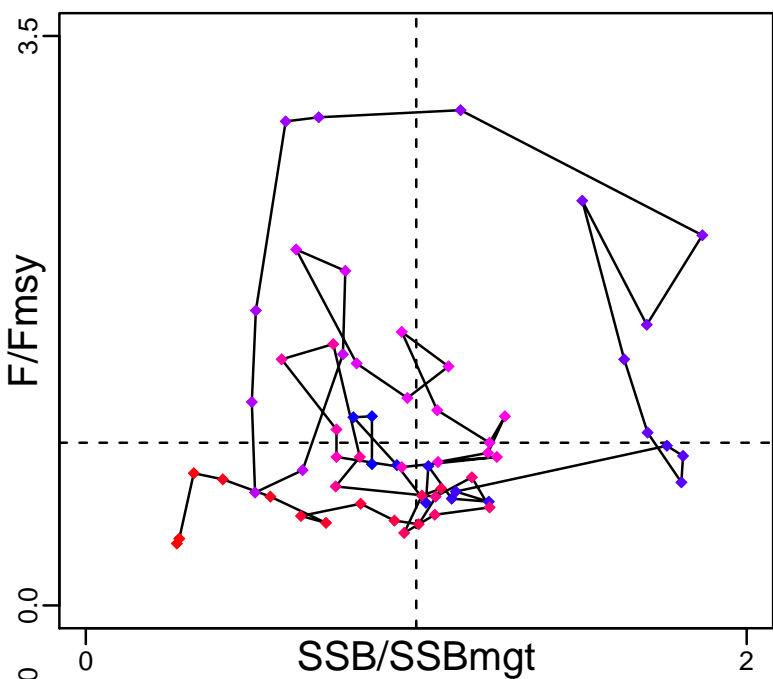
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVIaVIIbc-1956-2018-ICESIMP2021
Area	ICES 5a-7bc
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	202,004
SSBmsy	SSBmsy-est-MT	2010	91,414
Fmsy	Fmsy-1/yr	2018	0.16
ERmsy	ERmsy-est-ratio	2018	0.082
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	410,000
Fmgt	Fmgt-1/yr	2018	0.16
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	63,752
M	-	-	-
TBlim	TBlim-MT	2010	81,000
SSBlim	SSBlim-MT	2018	250,000
Flim	Flim-1/yr	2018	0.3
ERlim	-	-	-

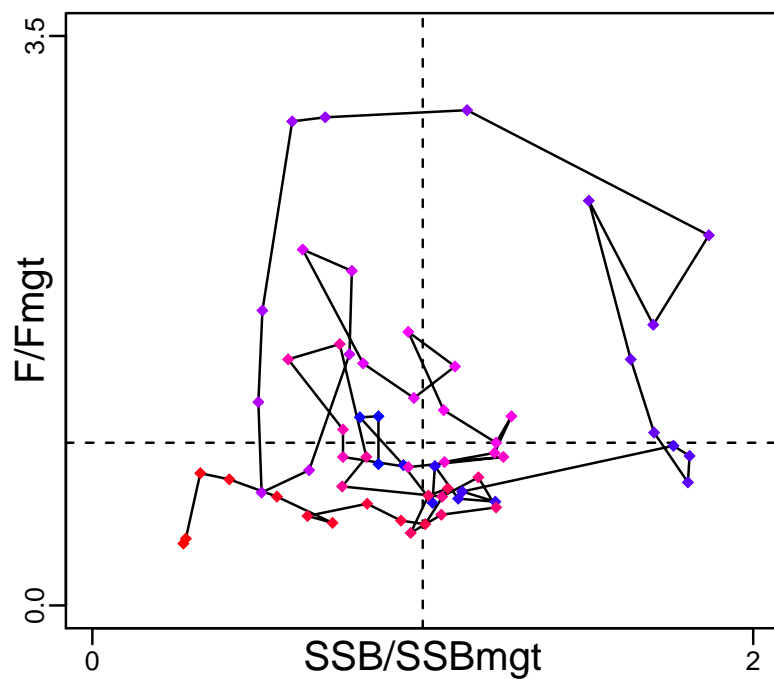
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	162,000	Both	-
SSB	SSB-MT	2018	91,500	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.4×10^8	-	1
F	F-1/yr	2018	0.061	-	3 to 6
ER	ER-calc-ratio	2018	0.04	-	-
TC	TC-MT	2018	6420		
TL	TL-MT	2018	6420		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	8.96		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.257		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.381		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.484		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.223		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.381		
ER/ERmgt	-	-	-		

Herring ICES 5a-7bc [HERRVIaVIIbc]

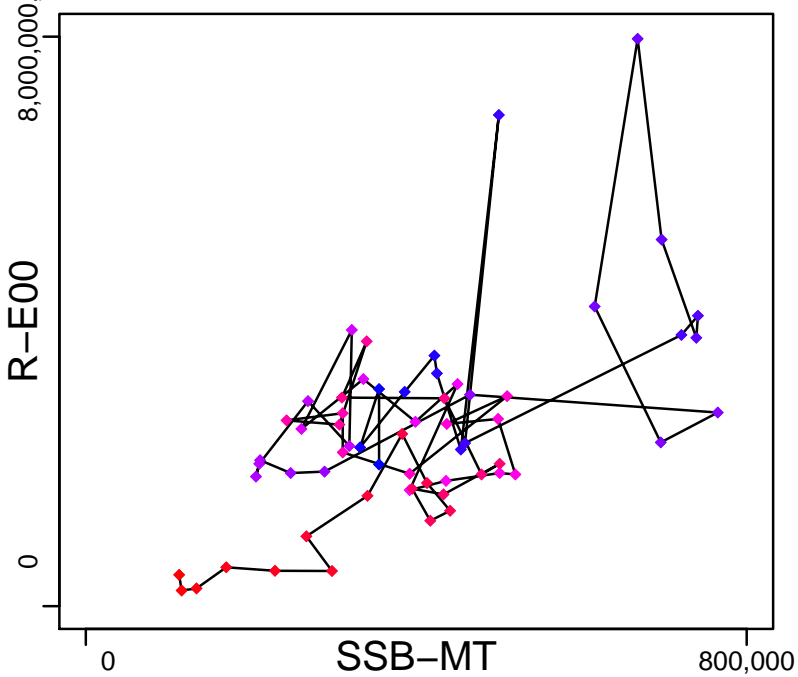
Kobe MSYpref (1956-2018-ICESIMP2018)



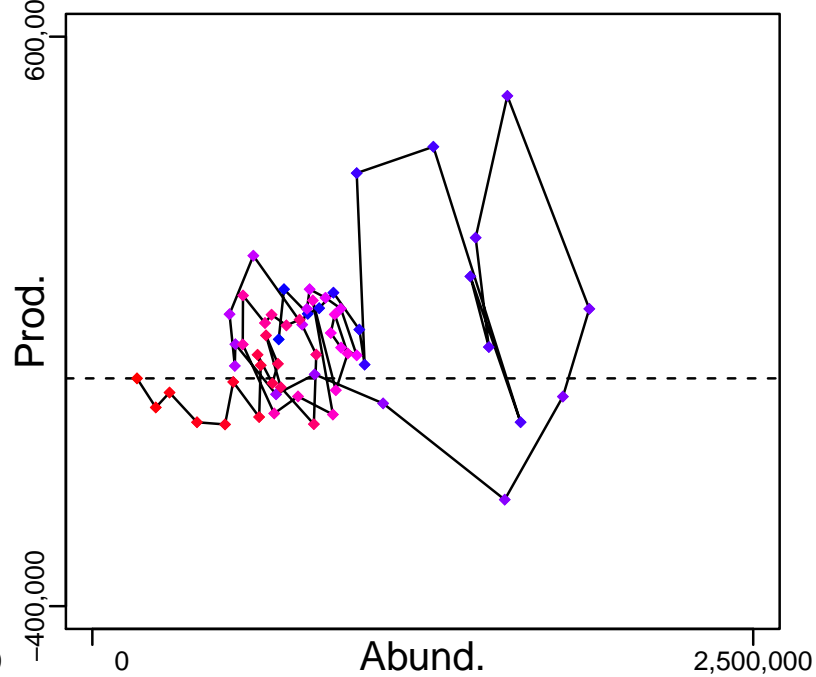
Kobe MGTpref (1956-2018-ICESIMP2018)



Spawner Recruit (1956-2018-ICESIMP2018)



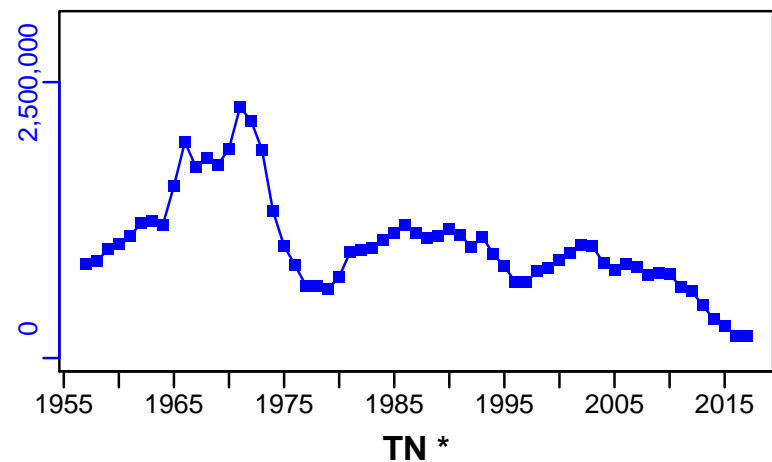
Production (1956-2018-ICESIMP2018)



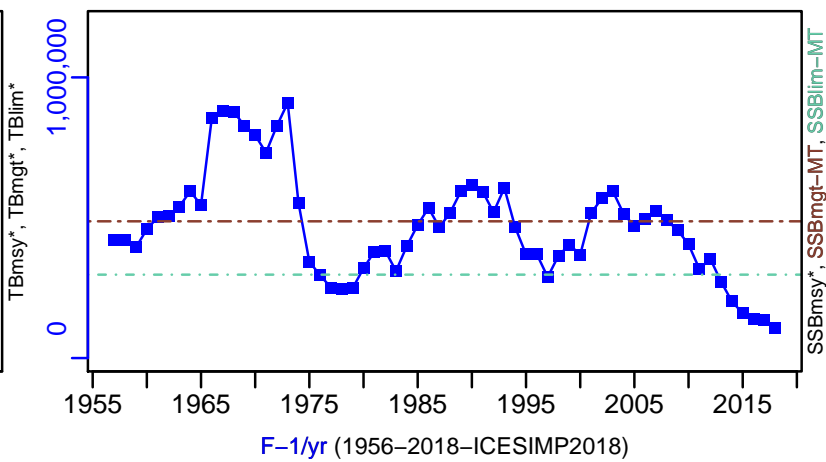
◆ Start Year ◆ End Year * No Data

Herring ICES 5a-7bc [HERRVIaVIIbc]

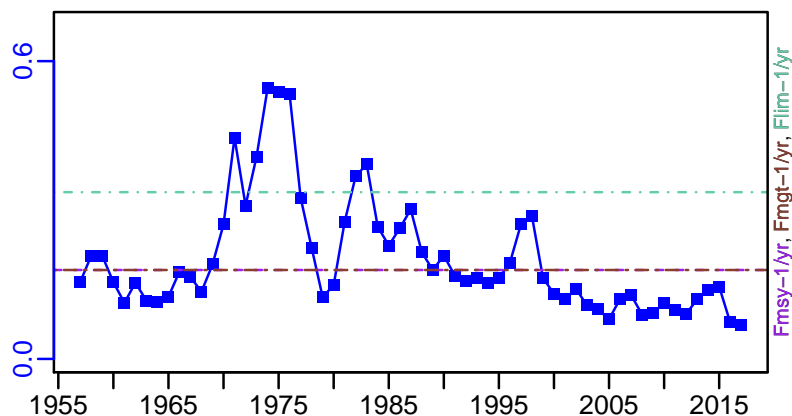
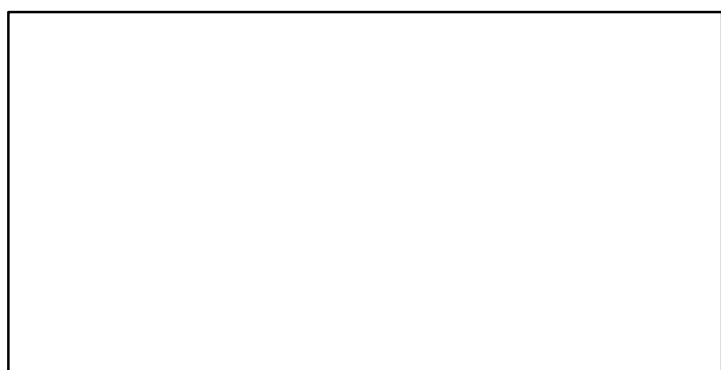
TB-MT (1956-2018-ICESIMP2018)



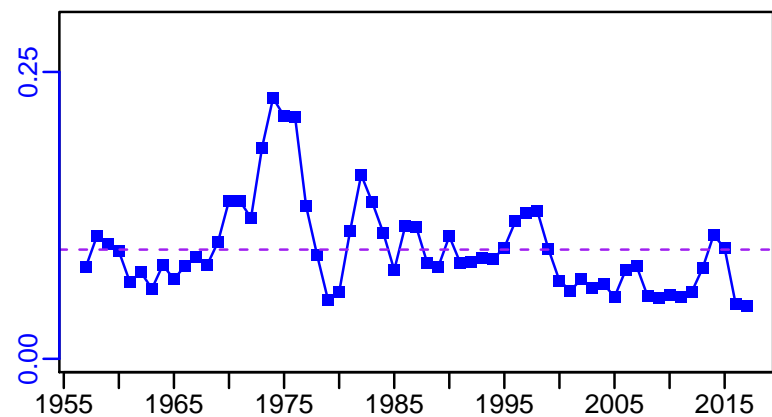
SSB-MT (1956-2018-ICESIMP2018)



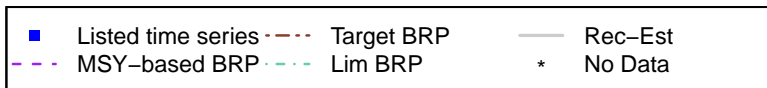
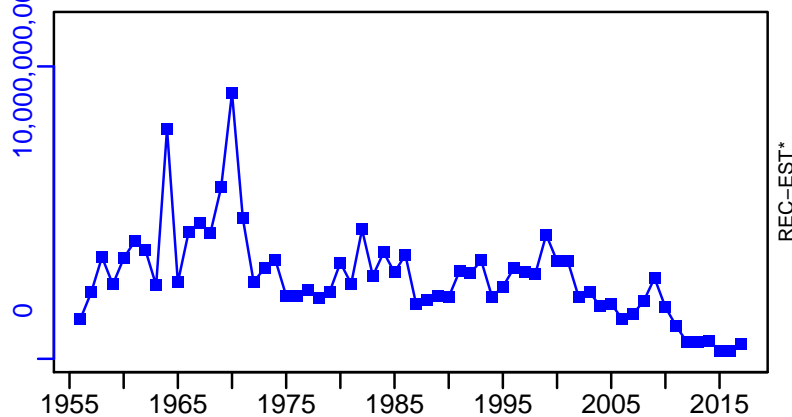
F-1/yr (1956-2018-ICESIMP2018)



ER-calc-ratio (1956-2018-ICESIMP2018)



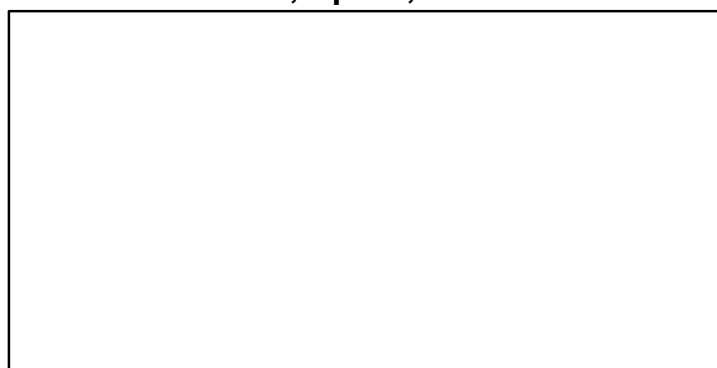
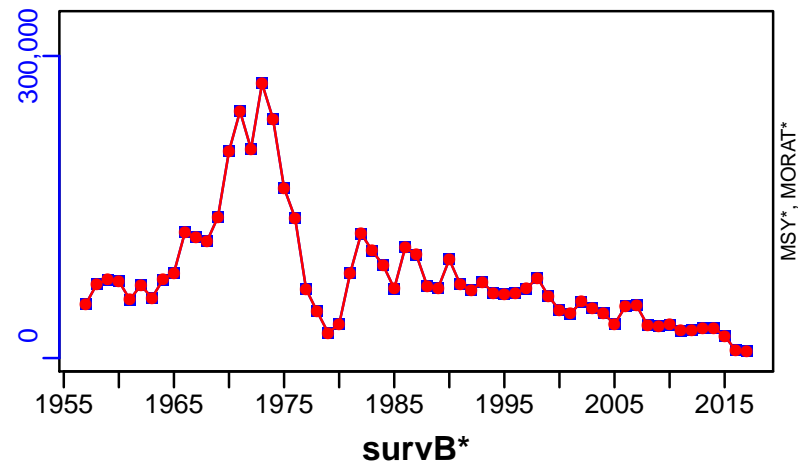
R-E00 (1956-2018-ICESIMP2018)



Herring ICES 5a-7bc [HERRVIaVIIbc]

TC-MT, TL-MT, RecC* (1956-2018-ICESIMP2018)

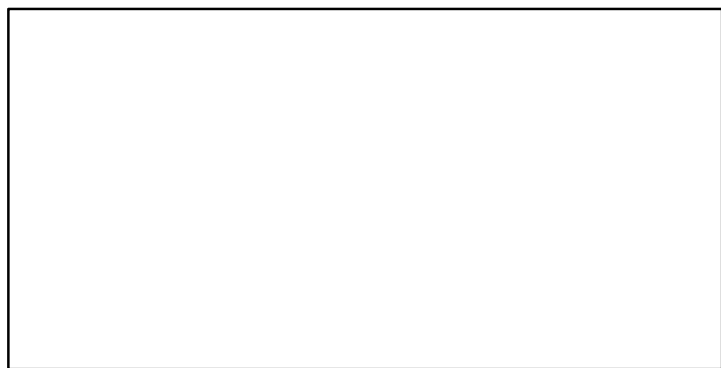
TAC*, Cpair*, Cadv*



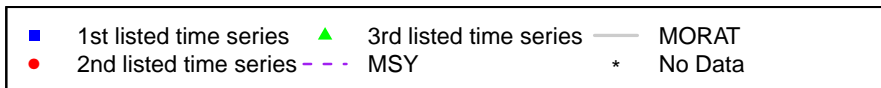
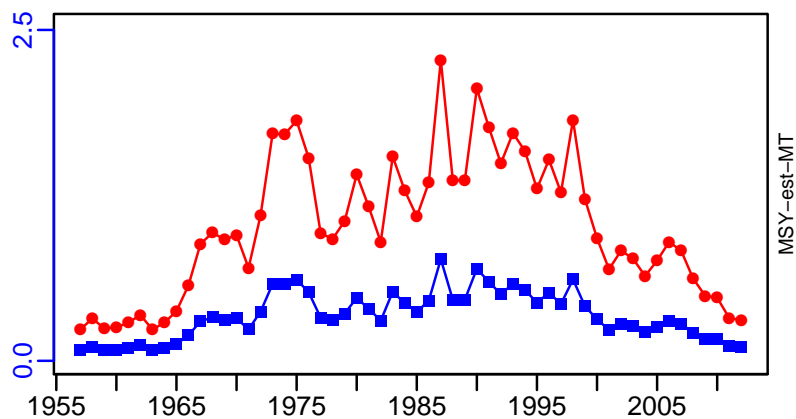
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1956-2013-ICESIMP2016)



Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIIa-IVa-Vb-VIa-VII-VIII]

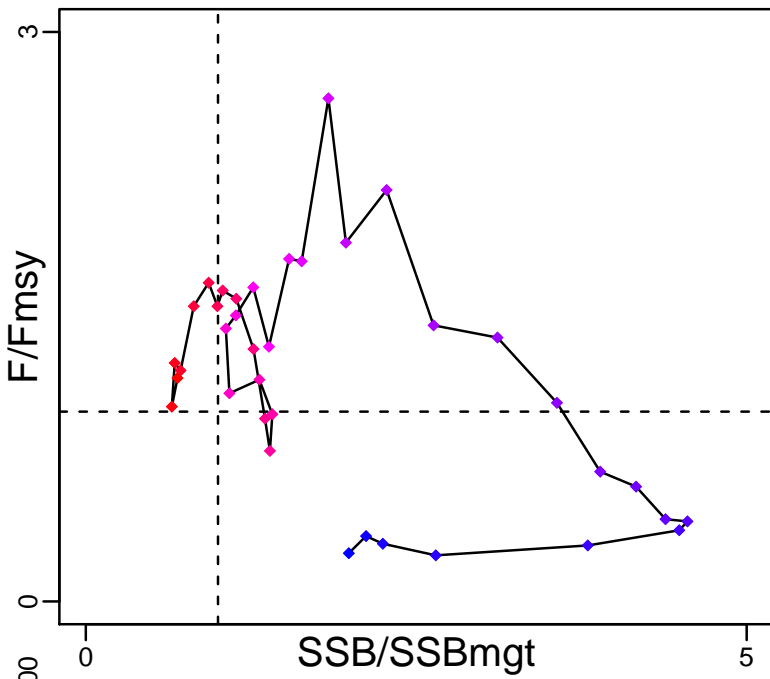
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIa-IVa-Vb-VIa-VII-VIII-1982-2019-ICESIMP2021
Area	ICES 2a-4a-5b-6a-7-8
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	2,482,584
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.074
ERmsy	ERmsy-est-ratio	2019	0.043
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	1,170,000
Fmgt	Fmgt-1/yr	2019	0.074
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	277,614
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	661,917
Flim	Flim-1/yr	2017	0.151
ERlim	-	-	-

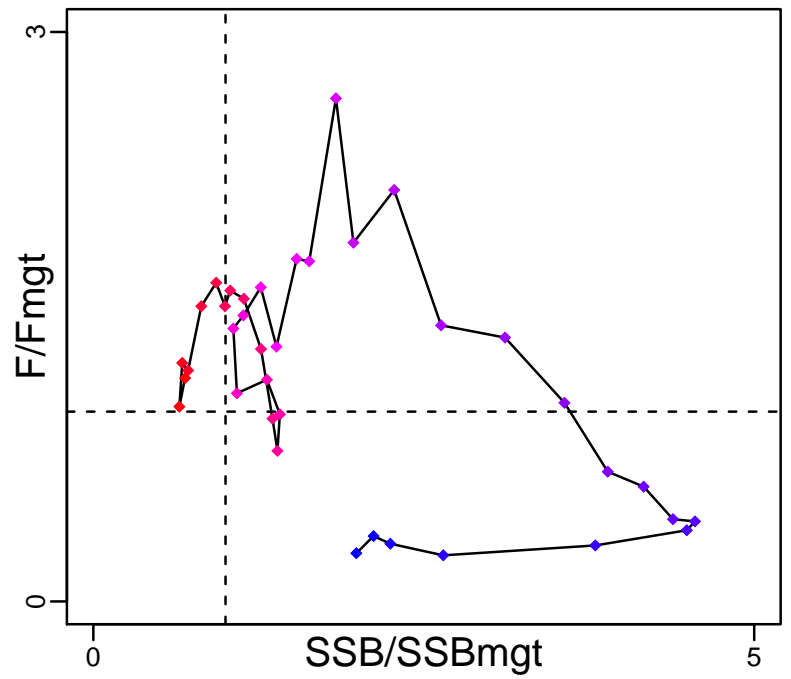
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	1,070,000	Both	-
SSB	SSB-MT	2019	872,831	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,572,649,000	-	0
F	F-1/yr	2019	0.087	-	1 to 10
ER	ER-calc-ratio	2019	0.136	-	-
TC	TC-MT	2019	101,682		
TL	TL-MT	2019	99,072		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.512		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.177		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	3.175		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.746		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.177		
ER/ERmgt	-	-	-		

Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIIa-IVa-Vb-VIa-VII-VIII]

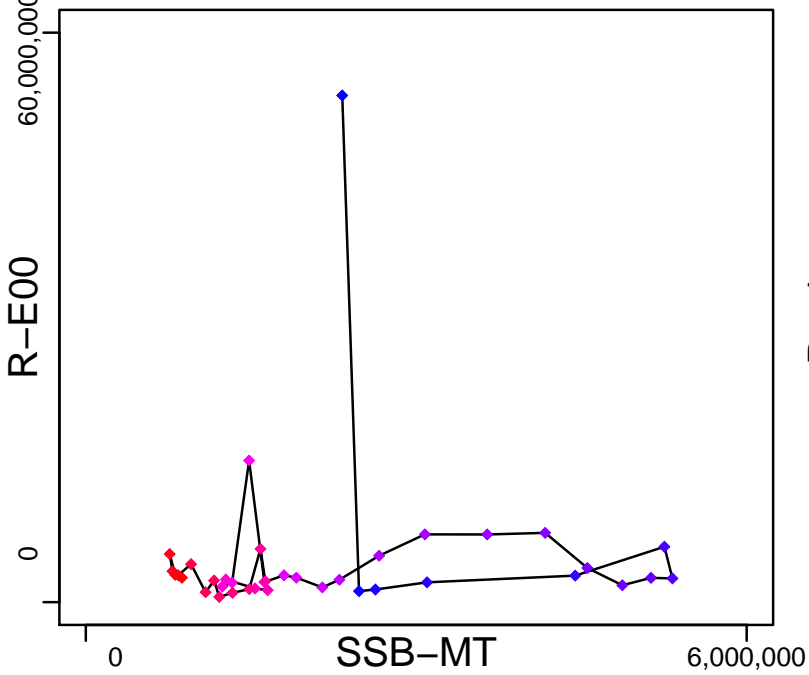
Kobe MSYpref (1982-2019-ICESIMP2021)



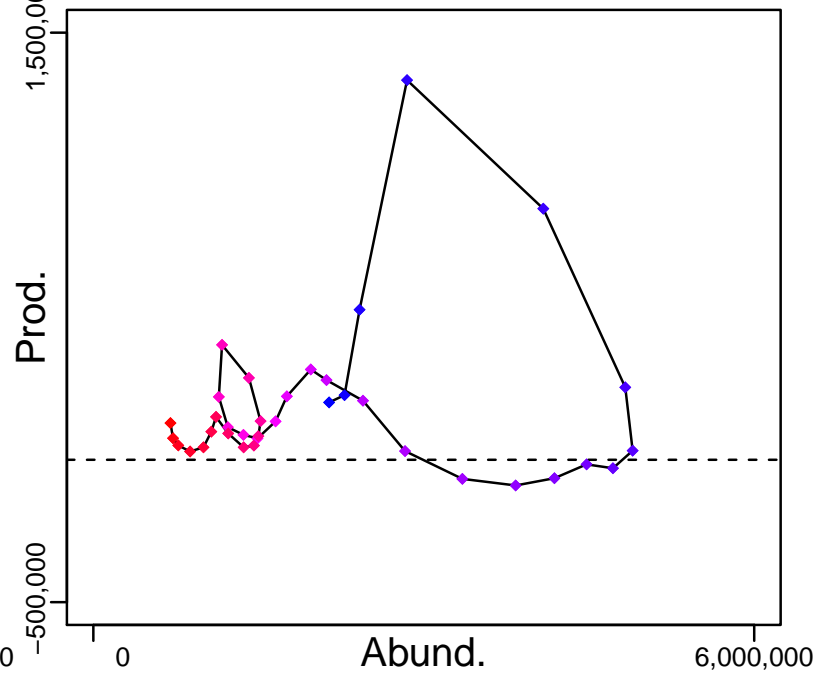
Kobe MGTpref (1982-2019-ICESIMP2021)



Spawner Recruit (1982-2019-ICESIMP2021)



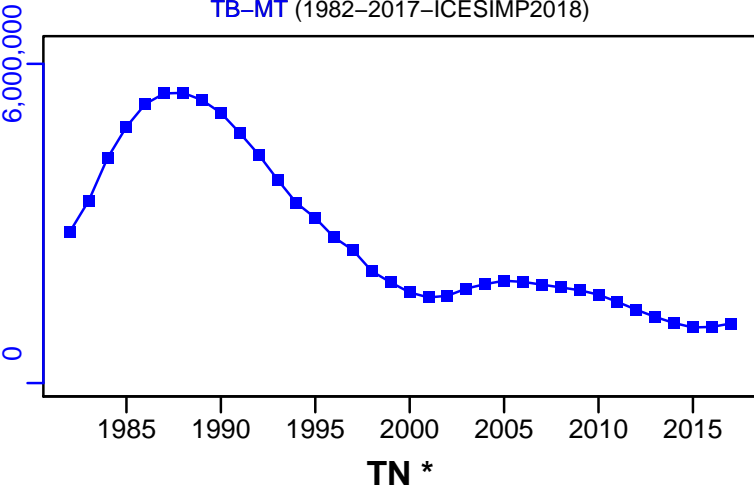
Production (1982-2019-ICESIMP2021)



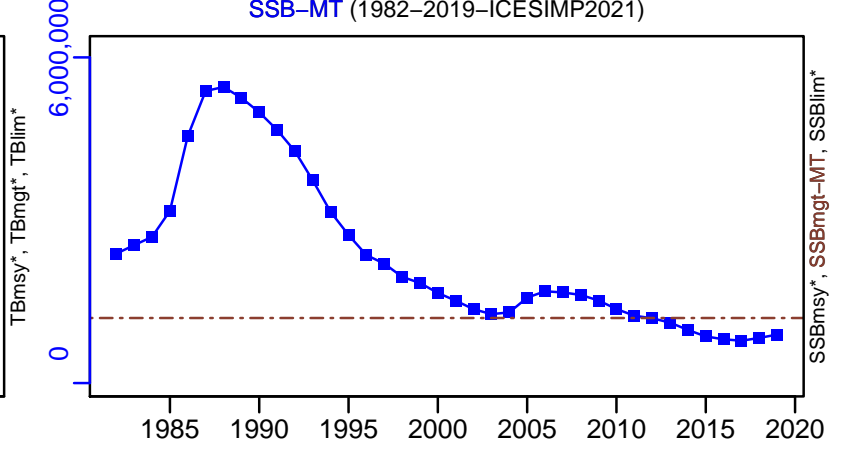
◆ Start Year ◆ End Year * No Data

Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIla-IVa-Vb-VIa-VII-VIII]

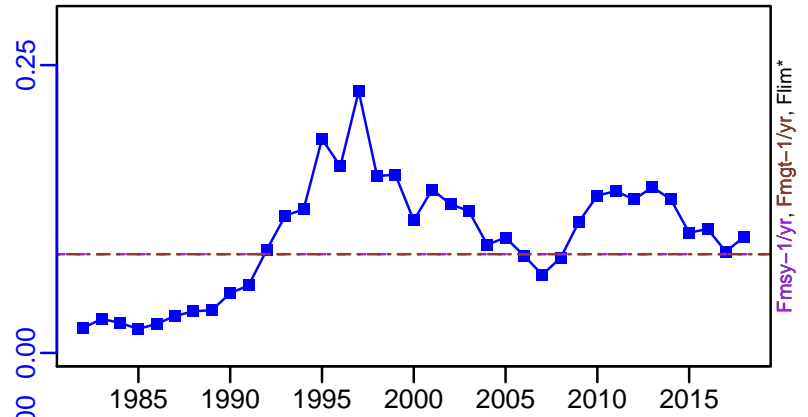
TB-MT (1982-2017-ICESIMP2018)



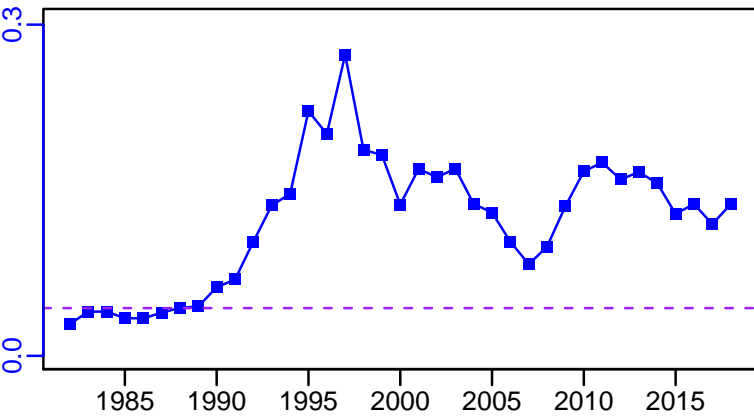
SSB-MT (1982-2019-ICESIMP2021)



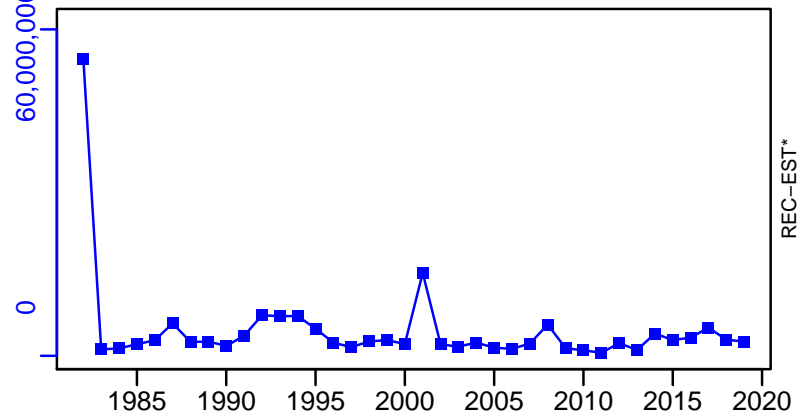
F-1/yr (1982-2019-ICESIMP2021)



ER-calc-ratio (1982-2019-ICESIMP2021)

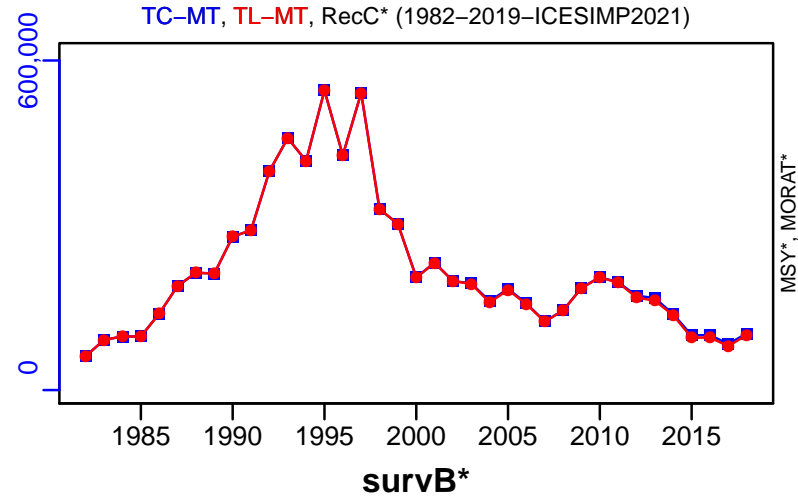


R-E00 (1982-2019-ICESIMP2021)



Horse mackerel ICES 2a-4a-5b-6a-7-8 [HMACKIla-IVa-Vb-VIa-VII-VIII]

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



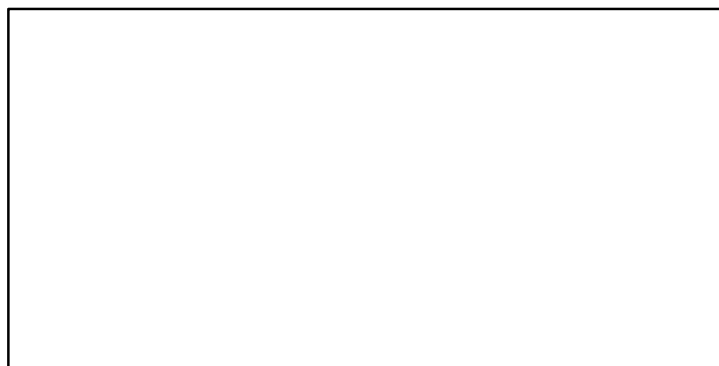
TAC*, Cpair*, Cadv*



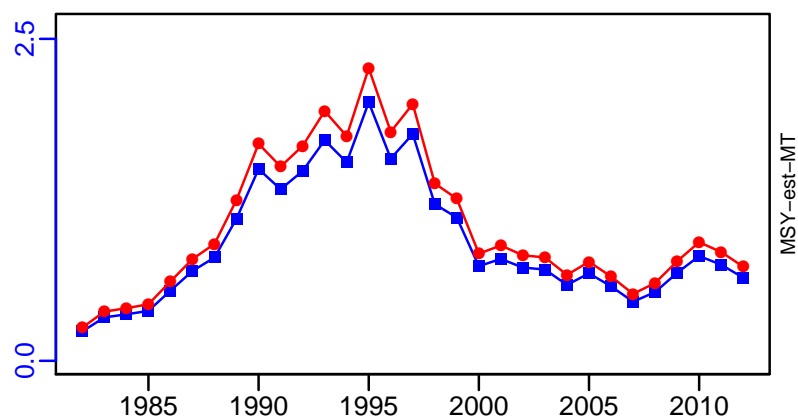
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1982-2013-ICESIMP2016)



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

Horse mackerel ICES 3a-4bc-7d [HMACKIIIa-IVbc-VIId]

Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIIa-IVbc-VIId-1982-2018-ICESIMP2021
Area	ICES 3a-4bc-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2015, 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	2018	14,773		
TL	TL-MT	2018	14,508		
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*

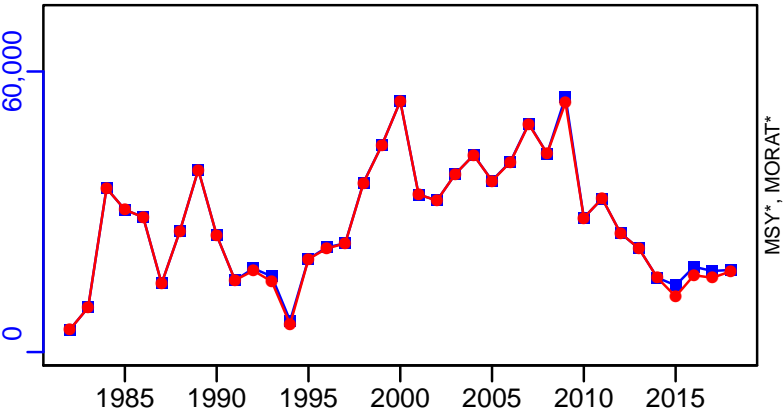


Recruits*



Horse mackerel ICES 3a-4bc-7d [HMACKIIIa-IVbc-VIId]

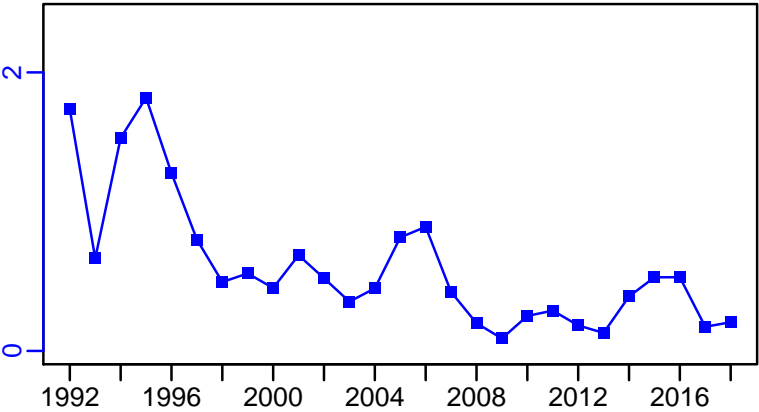
TC-MT, TL-MT, RecC* (1982-2018-ICESIMP2021)



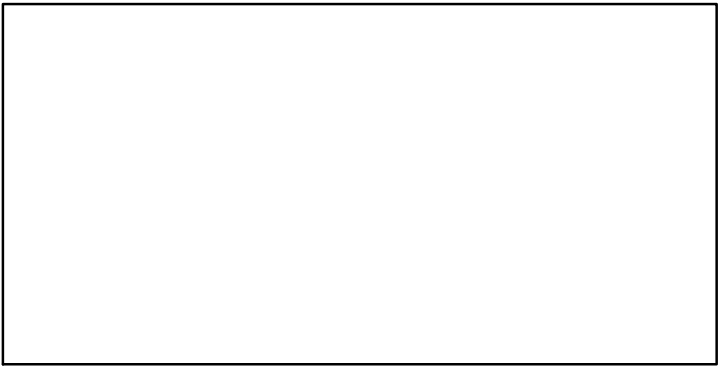
TAC*, Cpair*, Cadv*



survB-index (1982-2018-ICESIMP2021)



CPUE*



CdivMSY*



Horse mackerel Portuguese Waters -East [HMACKIXa]

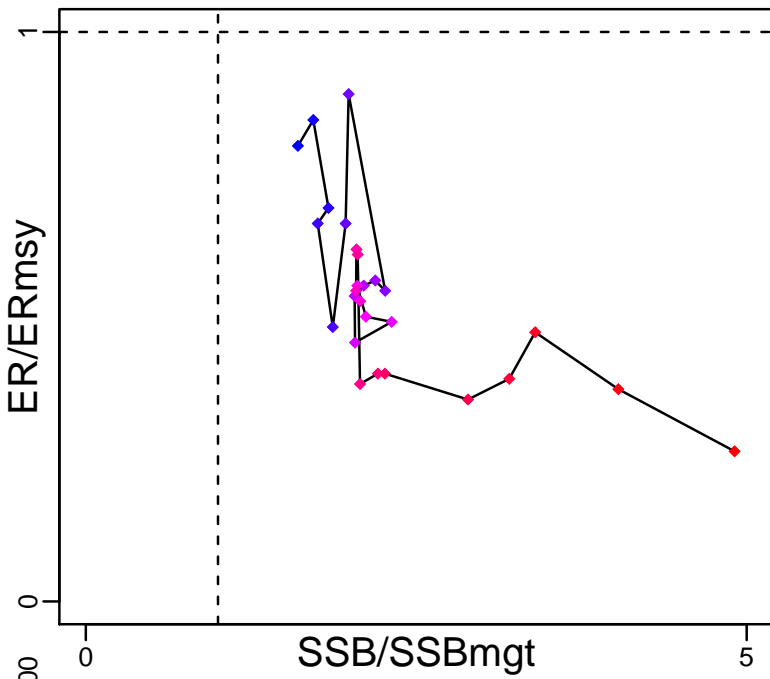
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGHANSA-HMACKIXa-1992-2019-ICESIMP2021
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2015	230,680
Fmsy	Fmsy-1/yr	2017	0.11
ERmsy	ERmsy-ratio	2019	0.11
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	181,000
Fmgt	Fmgt-1/yr	2017	0.11
ERmgt	ERmgt-ratio	2019	0.11
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	49,041
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	103,000
Flim	Flim-1/yr	2017	0.19
ERlim	-	-	-

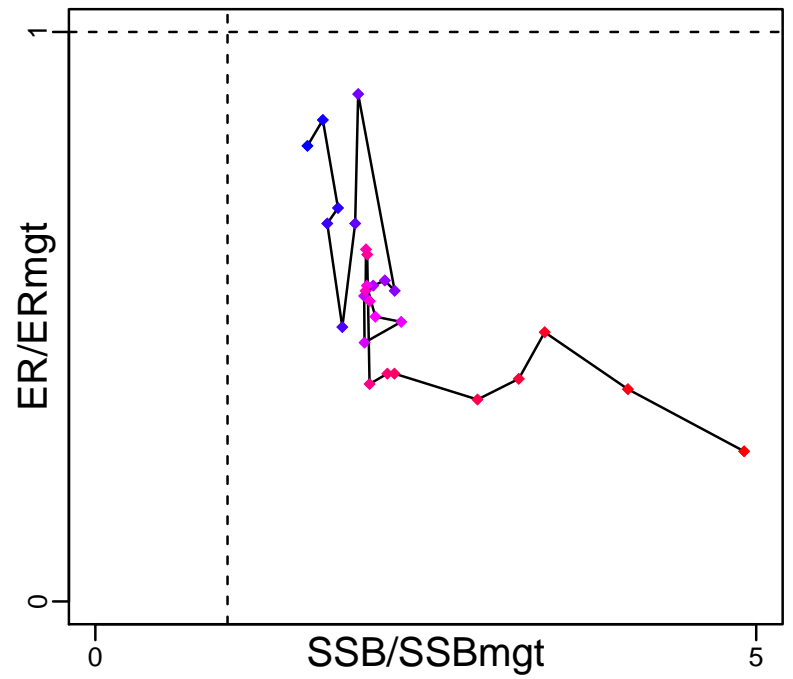
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	1,001,740	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,692,300,000	-	0
F	F-1/yr	2017	0.077	-	2 to 10
ER	ER-ratio	2019	0.029	-	2 to 10
TC	TC-MT	2019	31,661		
TL	TL-MT	2019	31,661		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2015	2.298		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.704		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.264		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	5.534		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.704		
ER/ERmgt	-	-	-		

Horse mackerel Portuguese Waters –East [HMACKIXa]

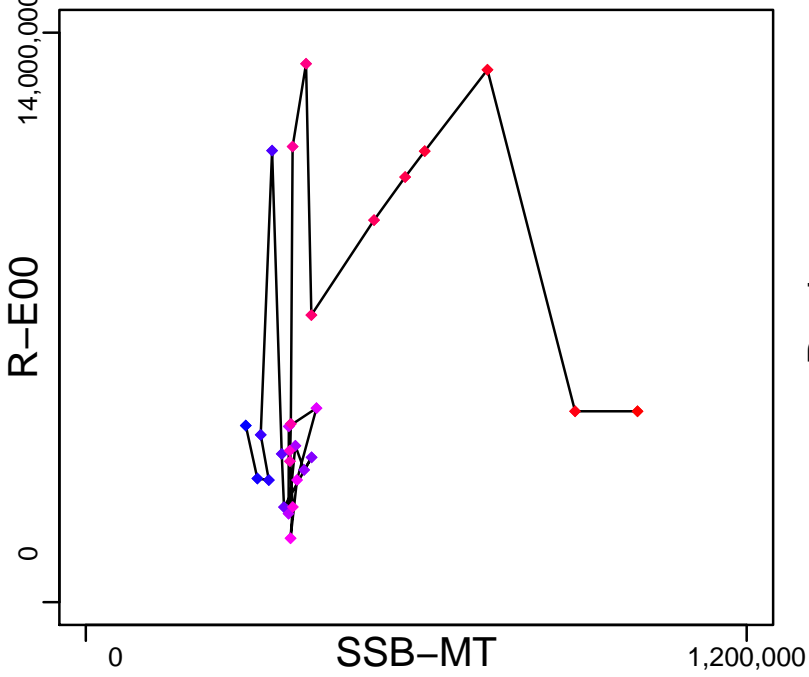
Kobe MSYpref (1992–2019–ICESIMP2021)



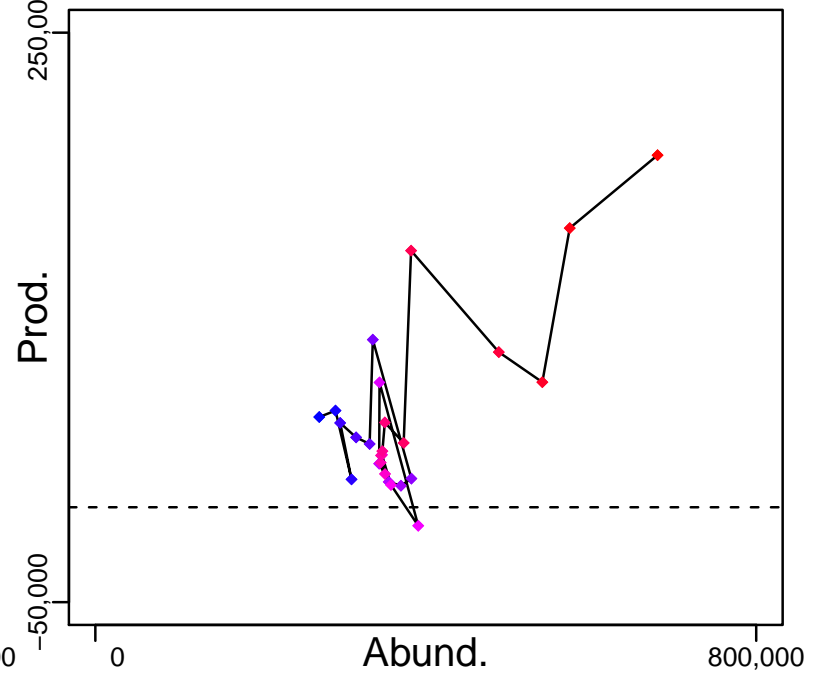
Kobe MGTpref (1992–2019–ICESIMP2021)



Spawner Recruit (1992–2019–ICESIMP2021)



Production (1992–2019–ICESIMP2021)



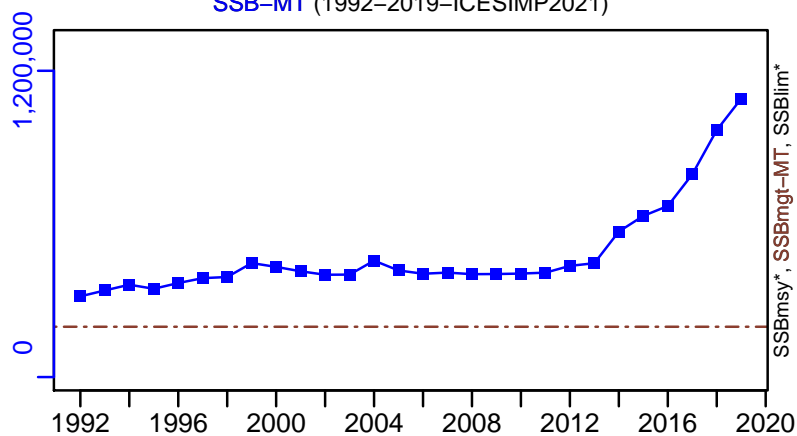
◆ Start Year ◆ End Year * No Data

Horse mackerel Portuguese Waters –East [HMACKIXa]

TB*



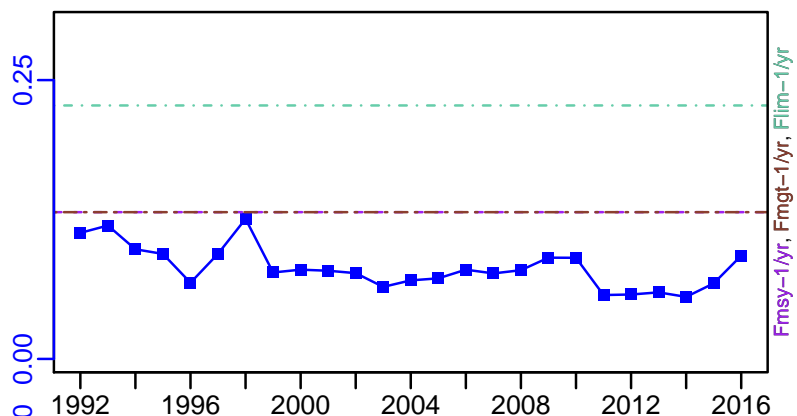
SSB-MT (1992–2019–ICESIMP2021)



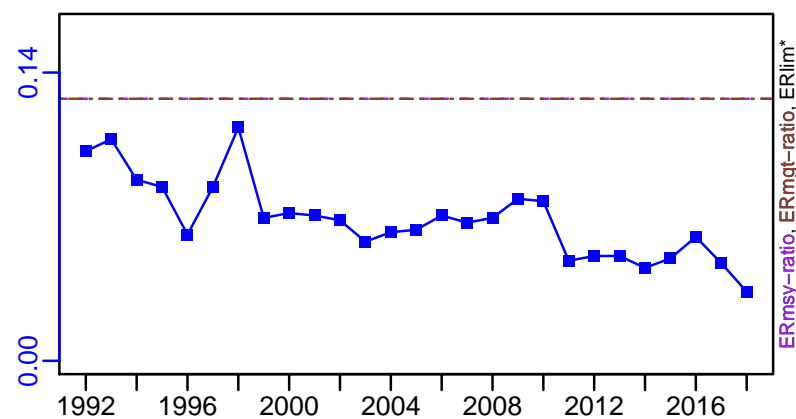
TN *



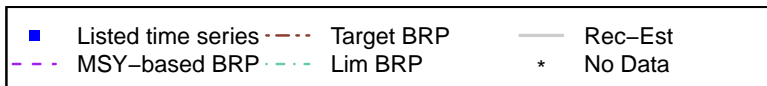
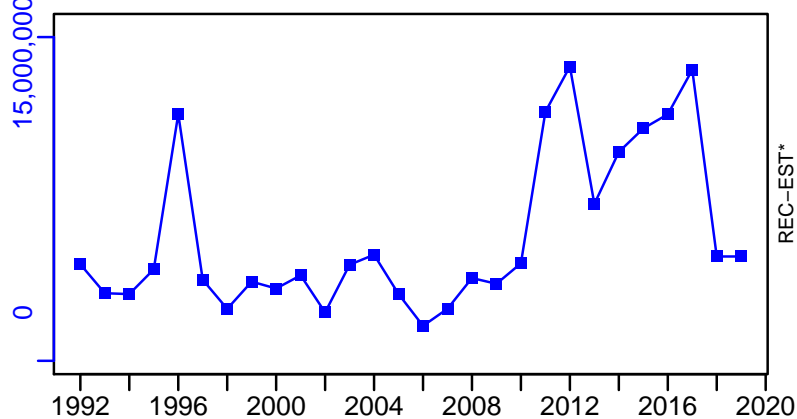
F-1/yr (1992–2017–ICESIMP2018)



ER-ratio (1992–2019–ICESIMP2021)

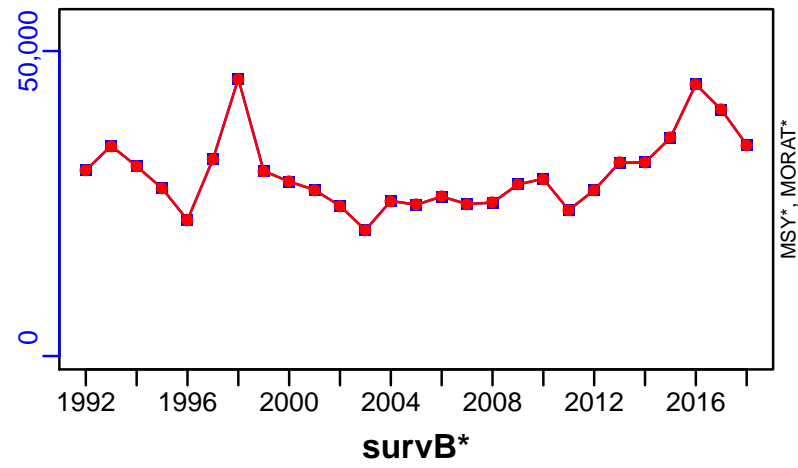


R-E00 (1992–2019–ICESIMP2021)



Horse mackerel Portuguese Waters –East [HMACKIXa]

TC–MT, TL–MT, RecC* (1992–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



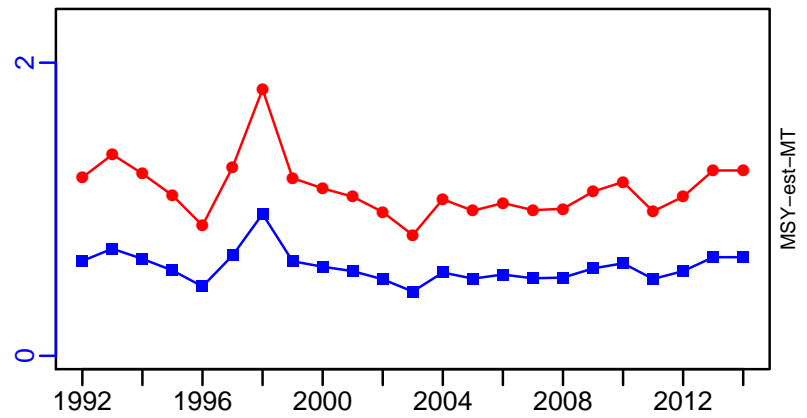
CPUE*



EFFORT*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (1992–2015–ICESIMP2016)



Kitefin shark Northeast Atlantic [KFSHARNEATL]

Metadata	
Scientific Name	Dalatias licha
Current Assess ID	WGEF-KFSHARNEATL-1972-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2018, 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	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

TB*



SSB*



TN *



F*



ER*

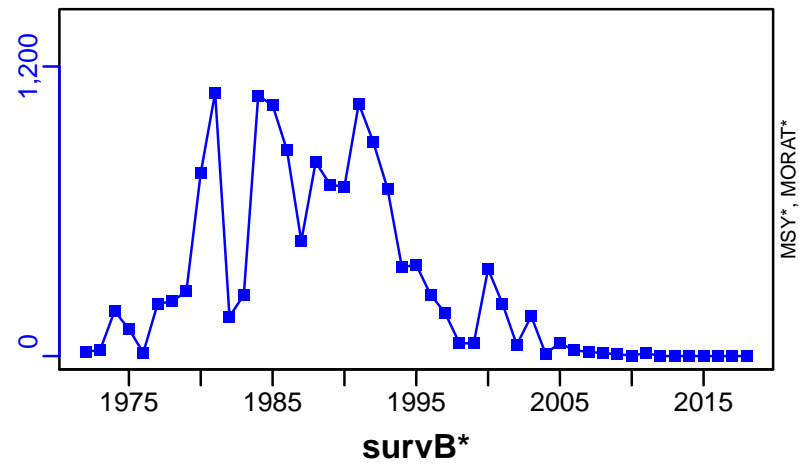


Recruits*



Kitefin shark Northeast Atlantic [KFSHARNEATL]

TL-MT, TC*, RecC* (1972–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



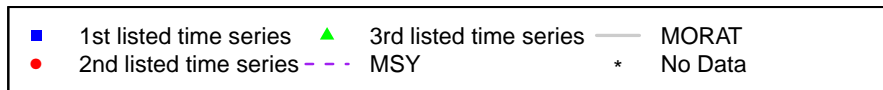
CPUE*



EFFORT*



CdivMSY*

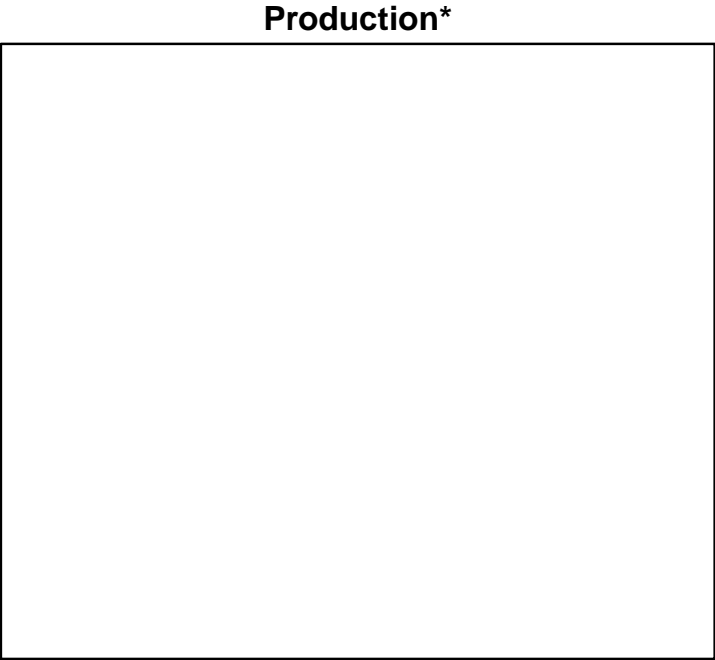
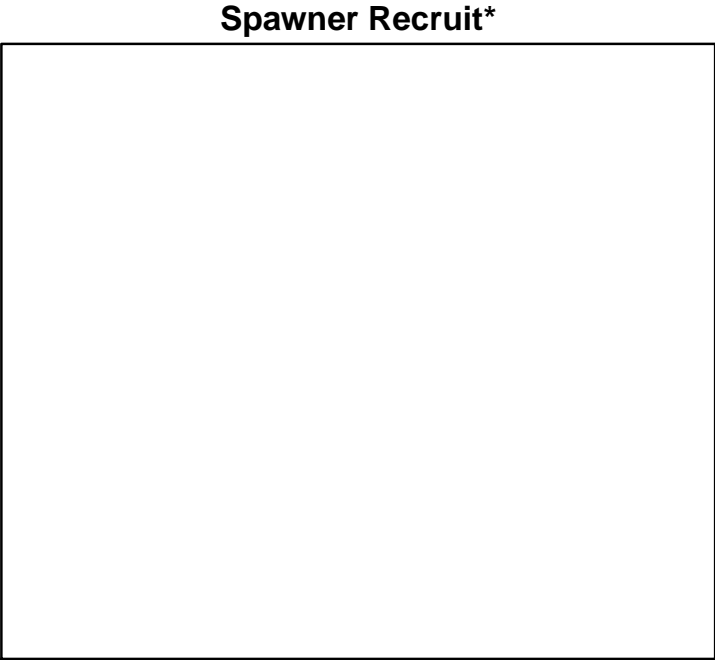
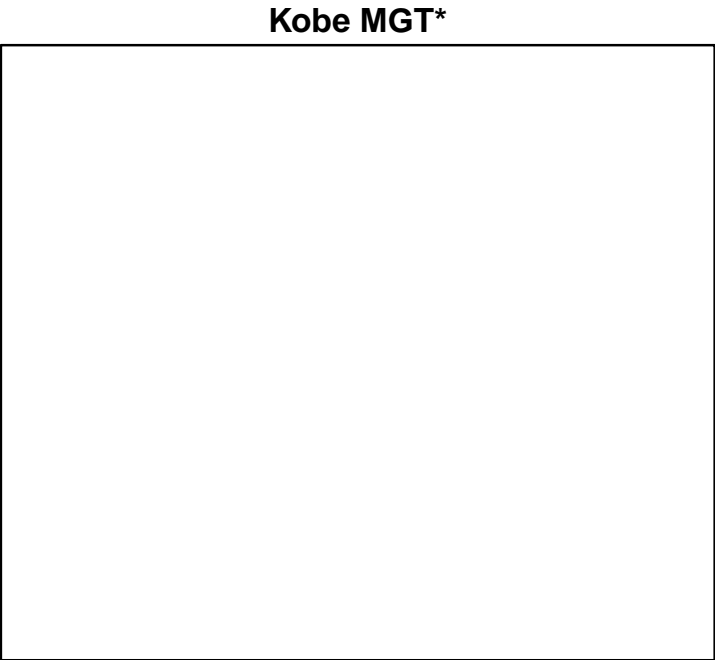
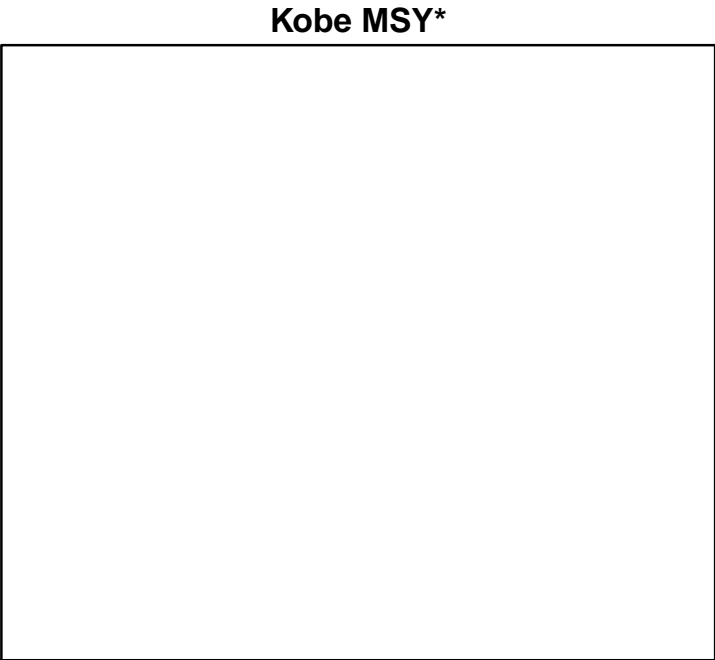


Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

Metadata	
Scientific Name	Centrophorus squamosus
Current Assess ID	WGEF-LGSHARNEATL-1988-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 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	2		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

TB*



SSB*



TN *



F*



ER*

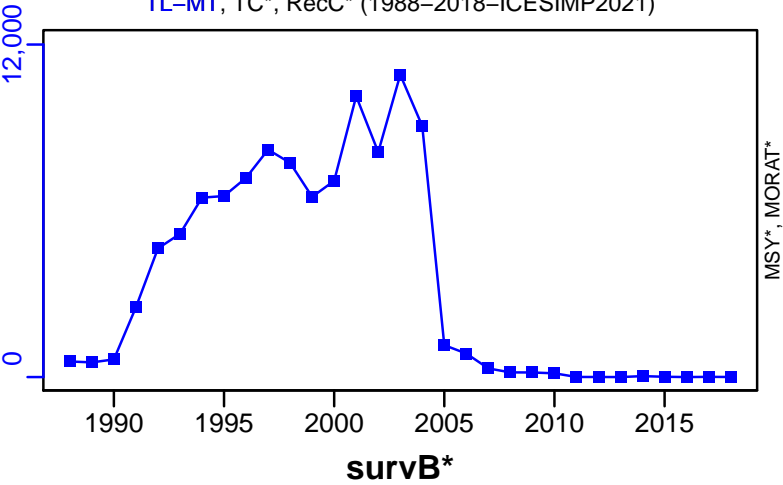


Recruits*



Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Ling Northeast Atlantic [LINGNEATL]

Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGNEATL-1988-2018-ICESIMP2021
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

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	2018	20,688		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



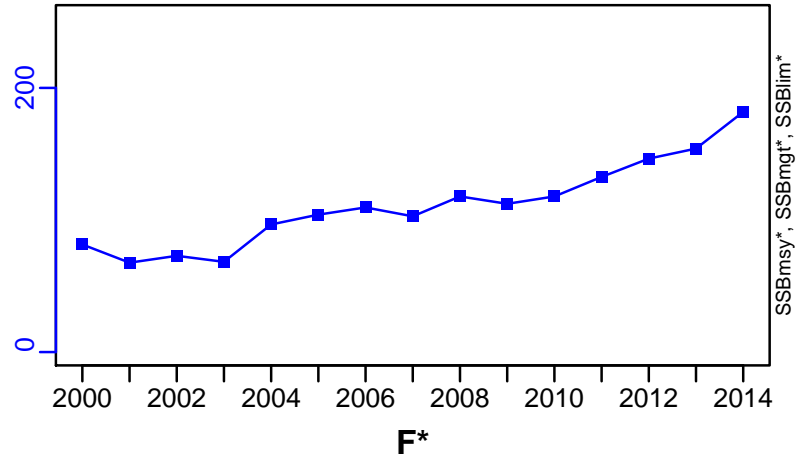
◆ Start Year ◆ End Year * No Data

Ling Northeast Atlantic [LINGNEATL]

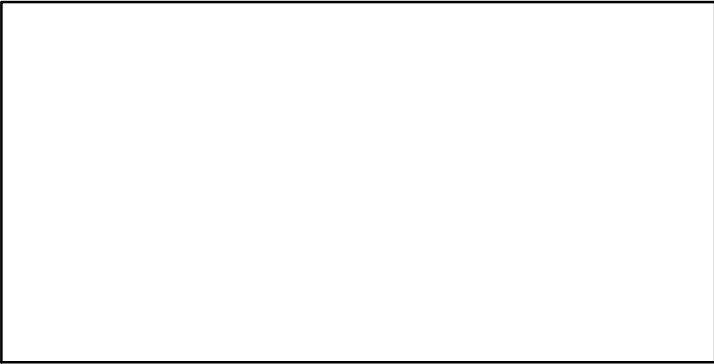
TB*



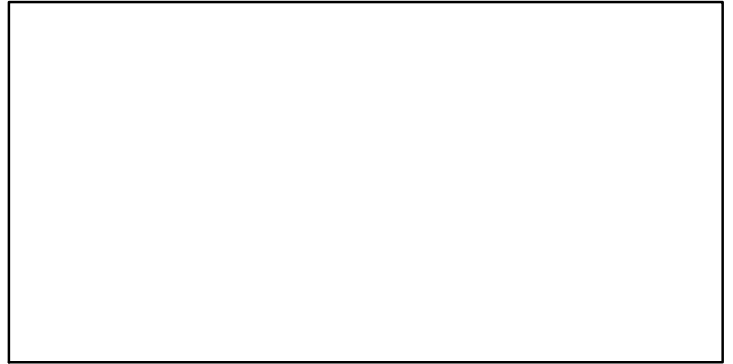
SSB-index (1988–2014–ICESIMP2018)



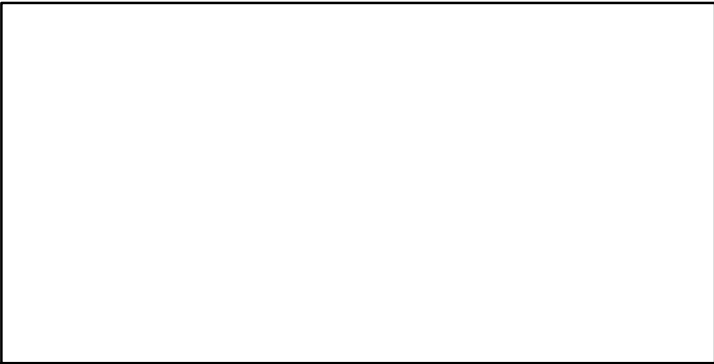
TN *



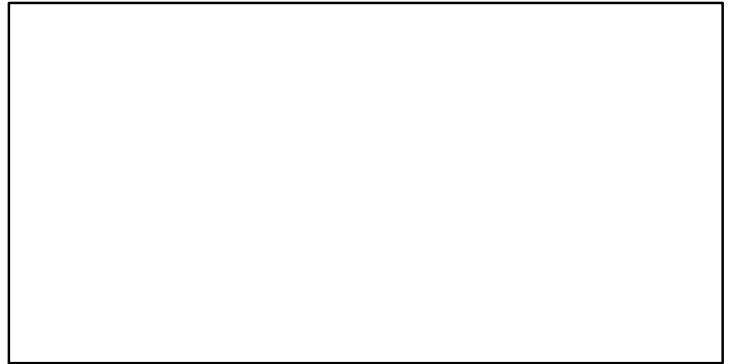
F*



ER*



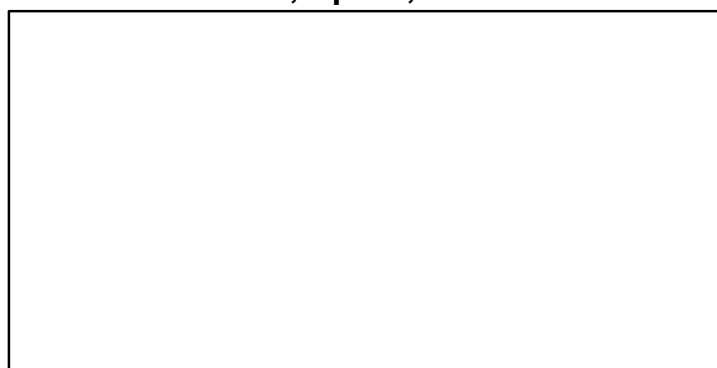
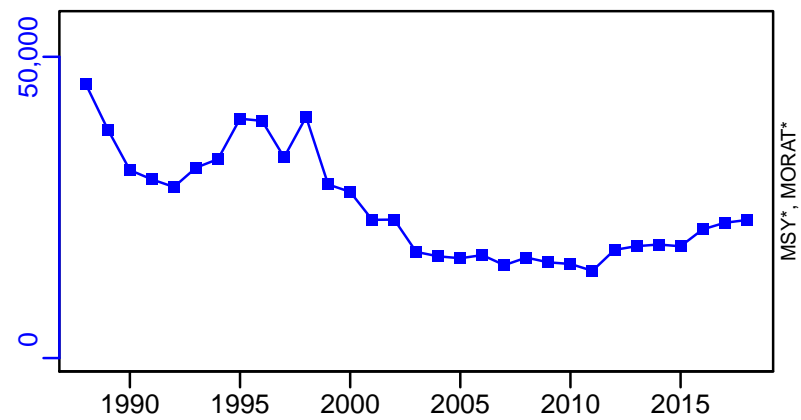
Recruits*



Ling Northeast Atlantic [LINGNEATL]

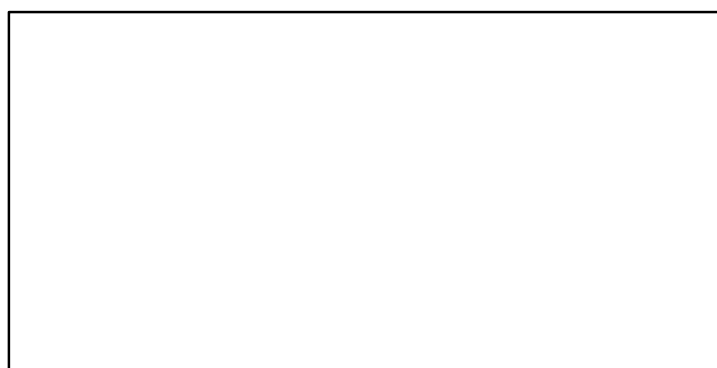
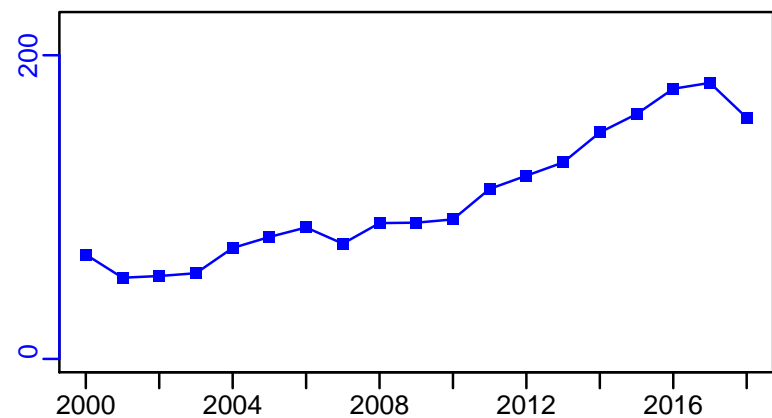
TL-MT, TC*, RecC* (1988–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



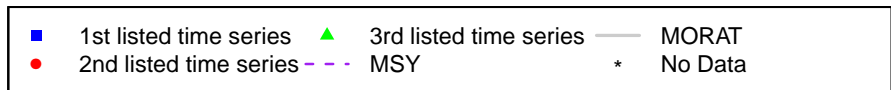
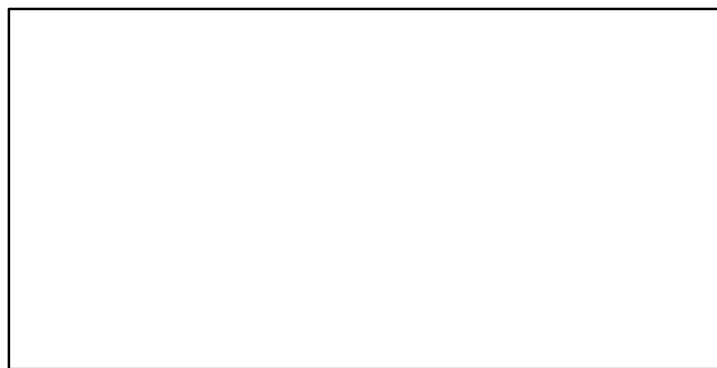
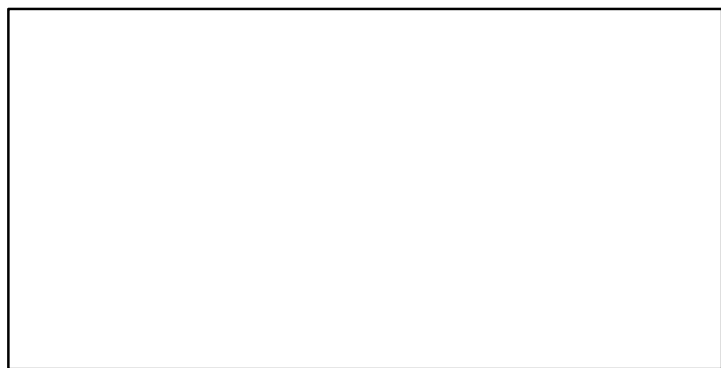
survB-MT (1988–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Lesser spotted dogfish ICES 3a-4-7d [LSDOGIIIa-IV-VIId]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGIIIa-IV-VIId-1993-2018-ICESIMP2021
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	1.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	2340		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



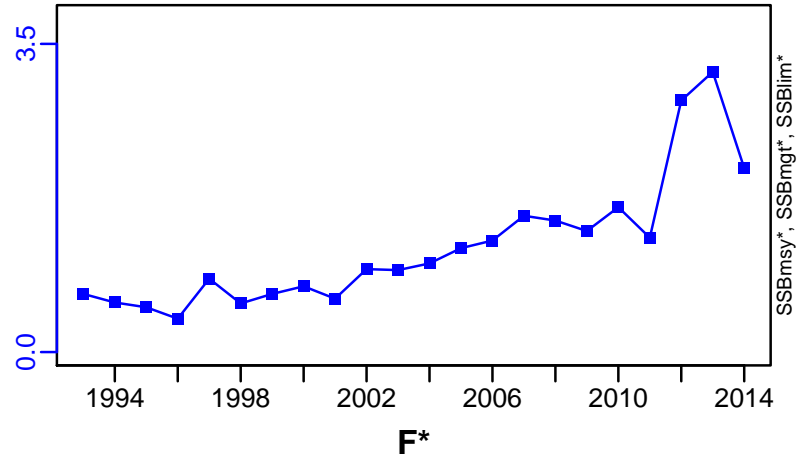
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES 3a–4–7d [LSDOGIIIa–IV–VIIId]

TB*



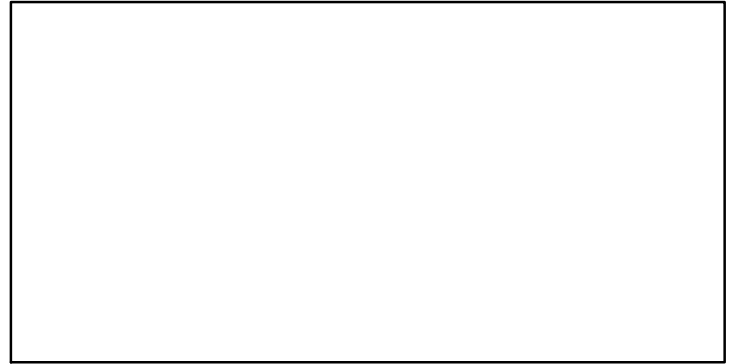
SSB-index (1993–2014–ICESIMP2018)



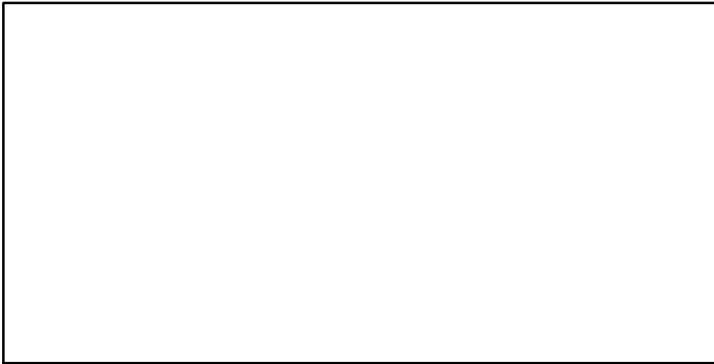
TN *



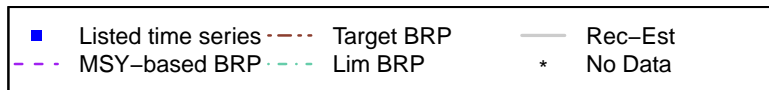
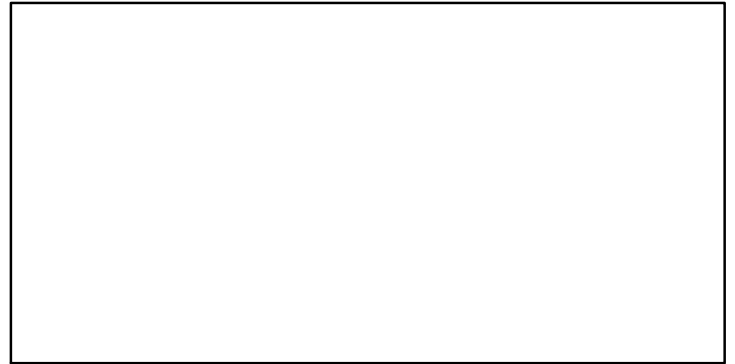
F*



ER*



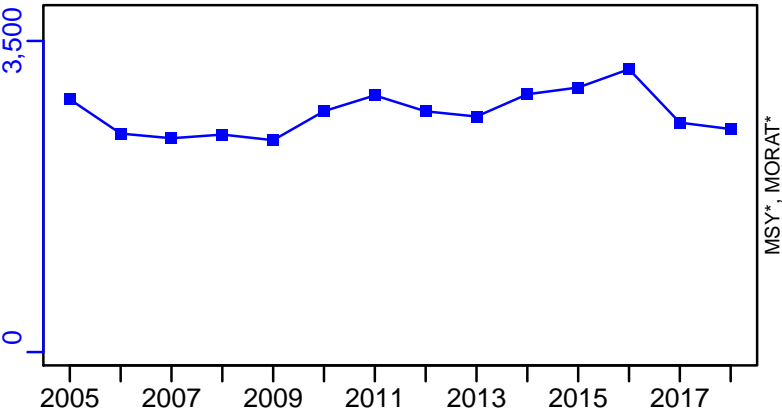
Recruits*



Lesser spotted dogfish ICES 3a–4–7d [LSDOGIIIa–IV–VIIId]

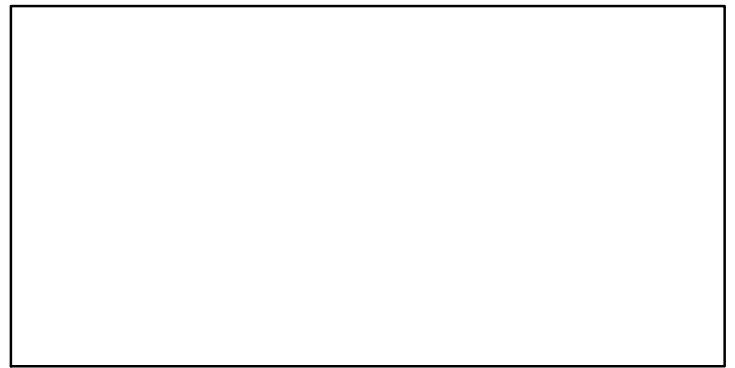
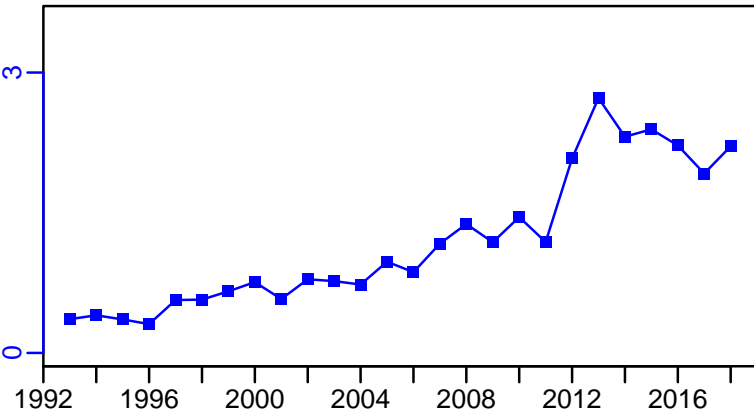
TL–MT, TC*, RecC* (1993–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



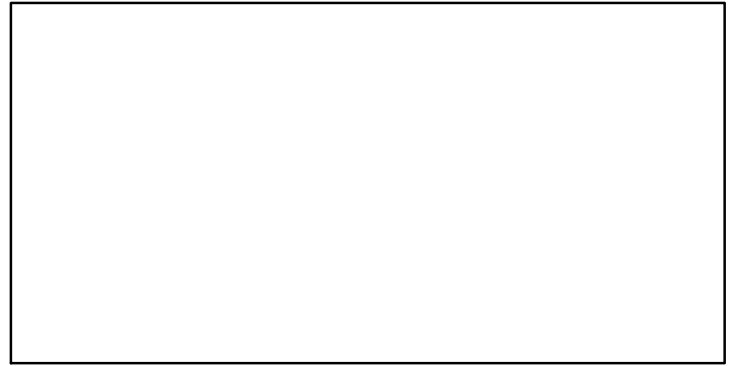
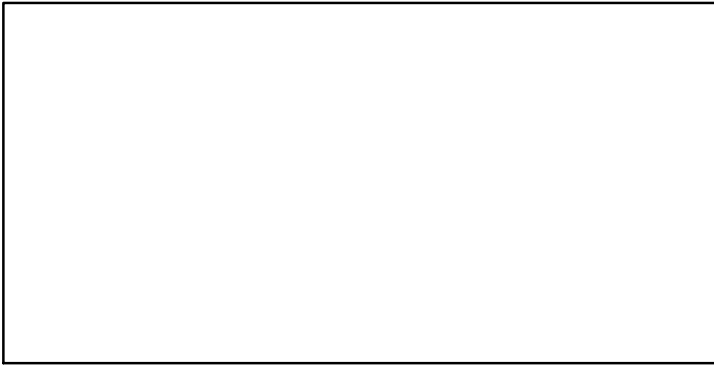
survB–index (1993–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Lesser spotted dogfish ICES 8abd [LSDOGVIIIabd]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVIIIabd-1997-2018-ICESIMP2021
Area	ICES 8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	1.02	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	8148		
TL	TL-MT	2018	1092		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



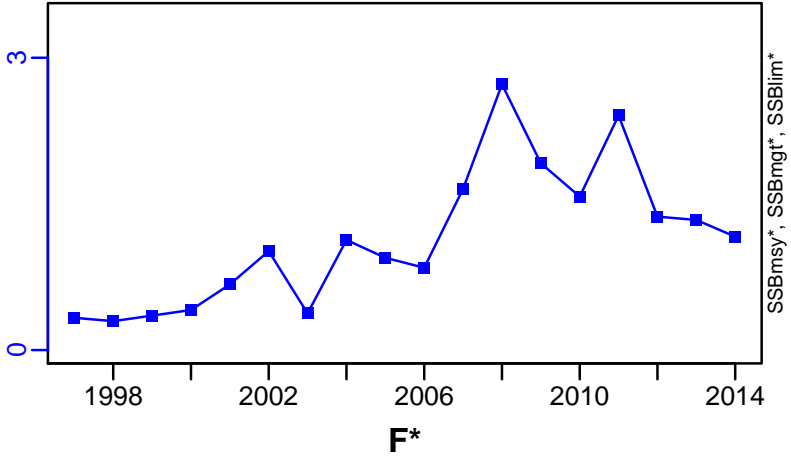
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES 8abd [LSDOGVIIIabd]

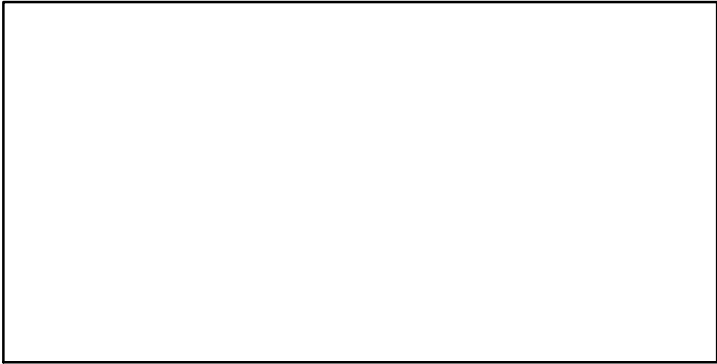
TB*



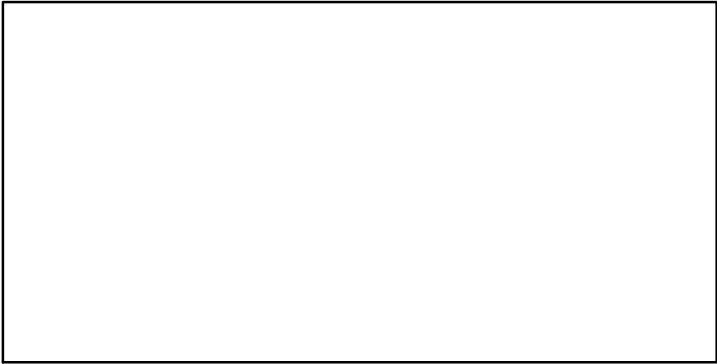
SSB-index (1997–2014–ICESIMP2018)



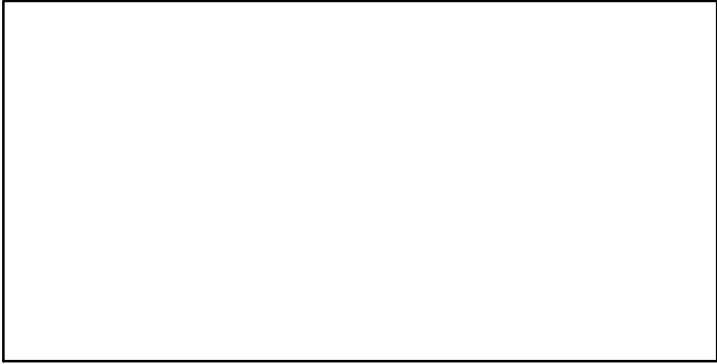
TN *



F*



ER*

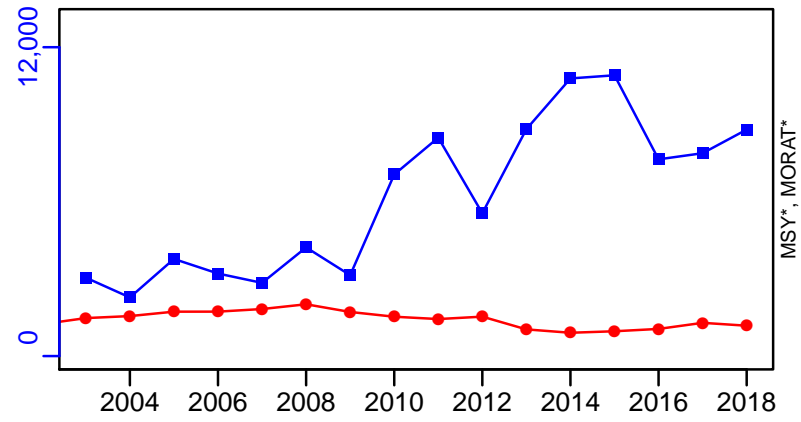


Recruits*



Lesser spotted dogfish ICES 8abd [LSDOGVIIIabd]

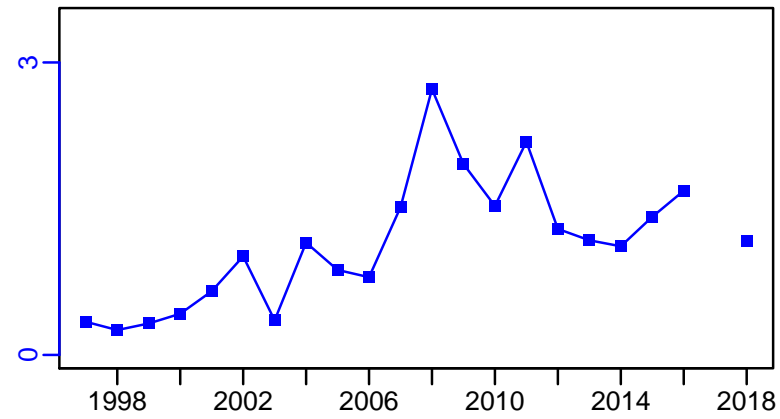
TC-MT, TL-MT, RecC* (1997–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-index (1997–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Lesser spotted dogfish ICES 8c-9a [LSDOGVIIIc-IXa]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVIIIc-IXa-1993-2018-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2018, 2016, 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	SSB-index	2014	1.42	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	1035		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

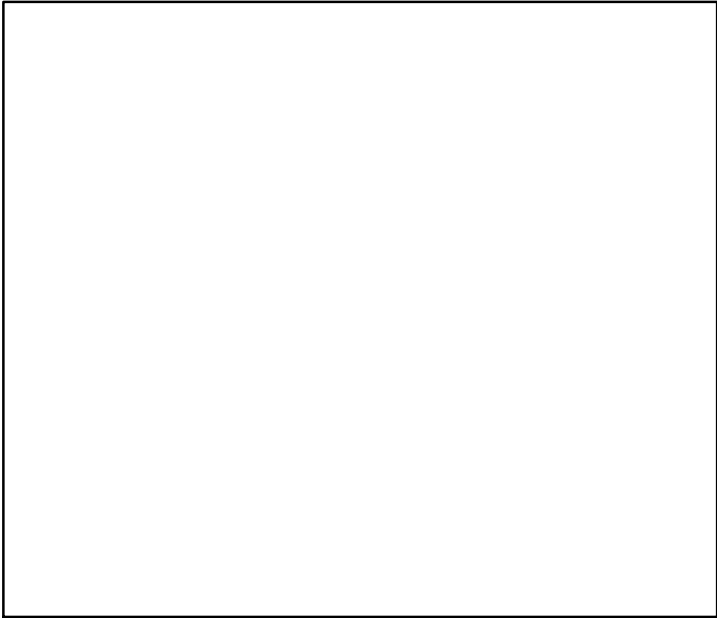
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



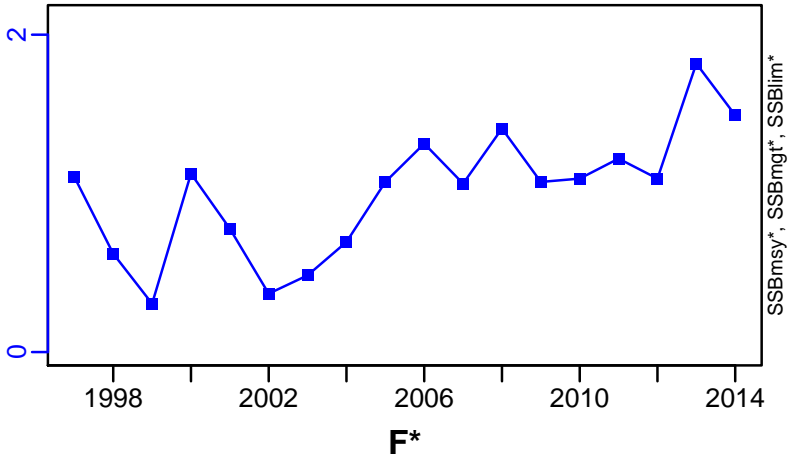
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES 8c-9a [LSDOGVIIIc-IXa]

TB*



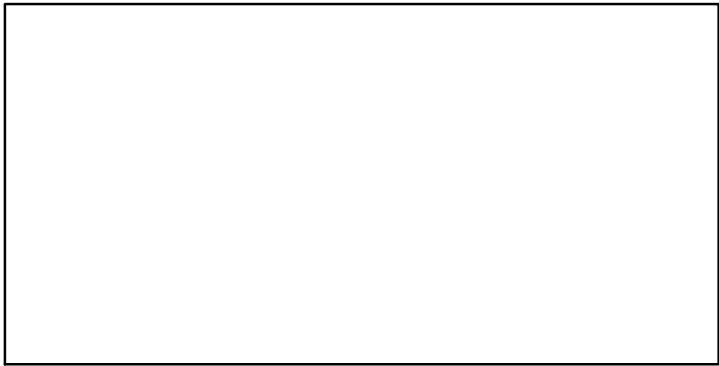
SSB-index (1997-2014-ICESIMP2018)



TN *



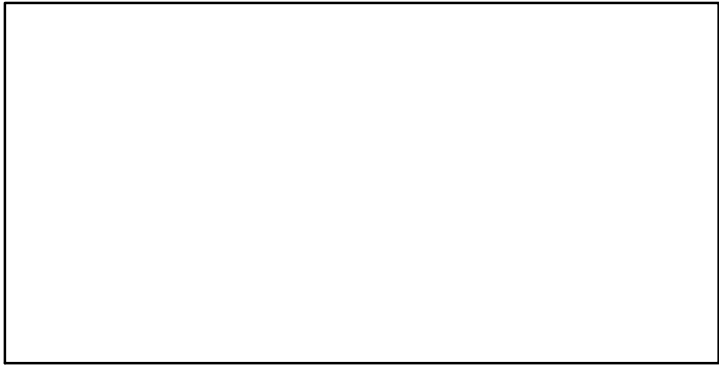
F*



ER*

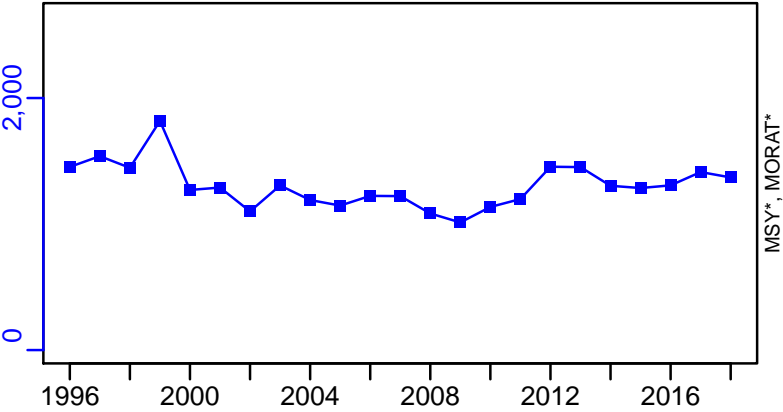


Recruits*



Lesser spotted dogfish ICES 8c-9a [LSDOGVIIIc-IXa]

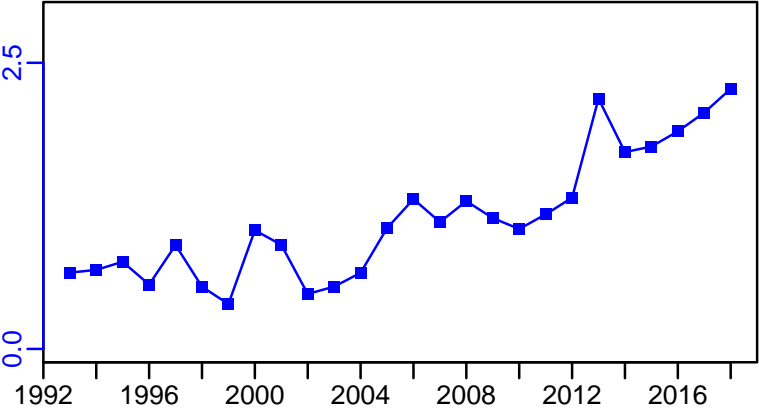
TL-MT, TC*, RecC* (1993-2018-ICESIMP2021)



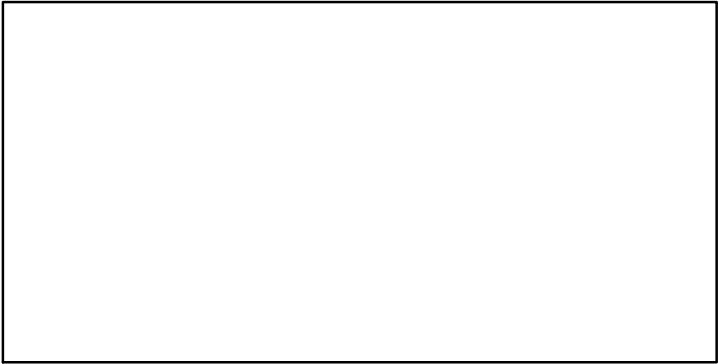
TAC*, Cpair*, Cadv*



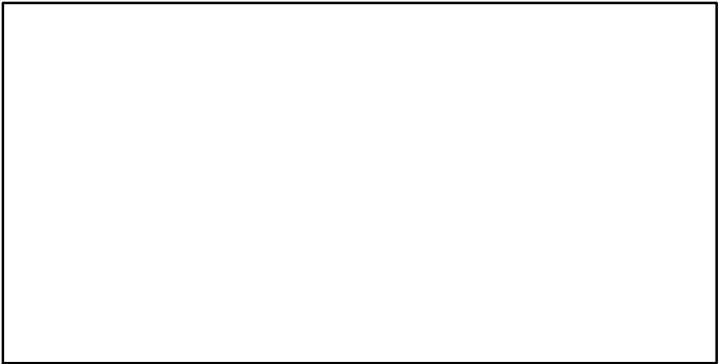
survB-MT (1993-2018-ICESIMP2021)



CPUE*



CdivMSY*



Lesser spotted dogfish ICES 6-7abcefg hij [LSDOGVI-VIIabcefg hij]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVI-VIIabcefg hij-2005-2018-ICESIMP2021
Area	ICES 6-7abcefg hij
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016, 2018

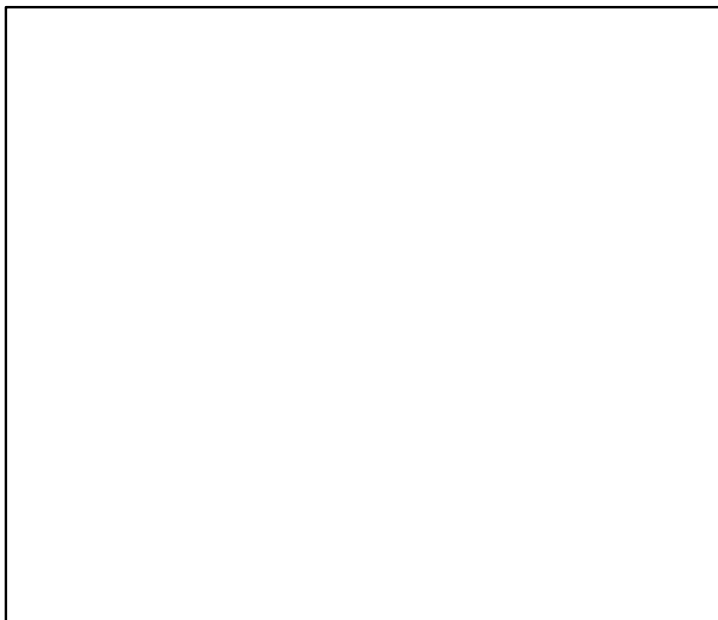
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	1.14	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	3763		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

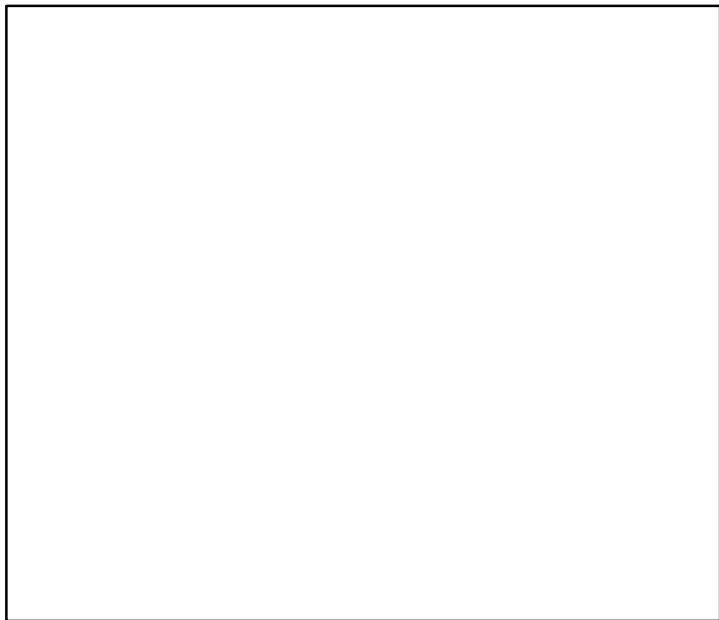
Kobe MSY*



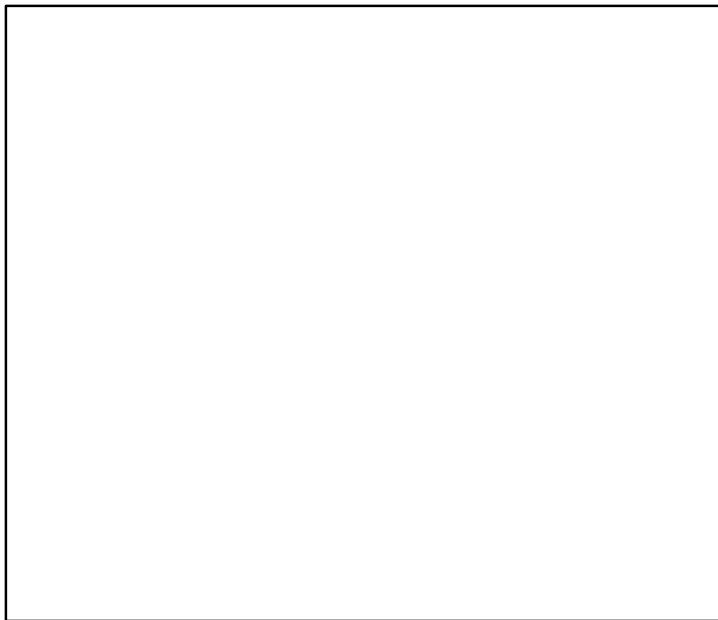
Kobe MGT*



Spawner Recruit*



Production*



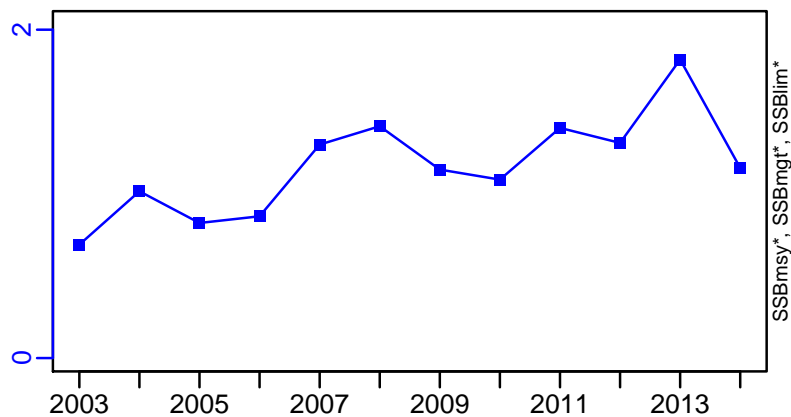
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES 6–7abcefg hij [LSDOGVI–VIIabcefg hij]

TB*



SSB-index (2003–2014–ICESIMP2018)



TN *



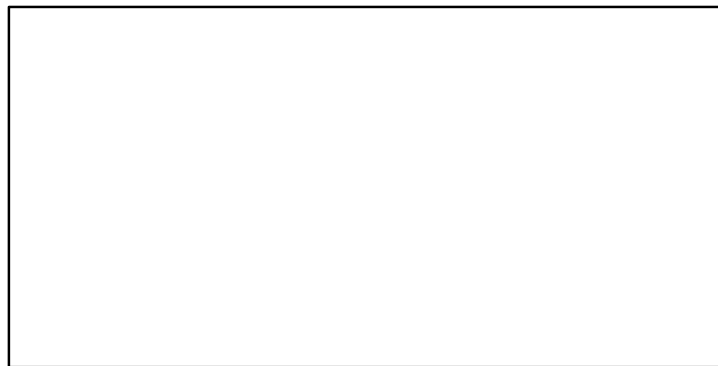
F*



ER*

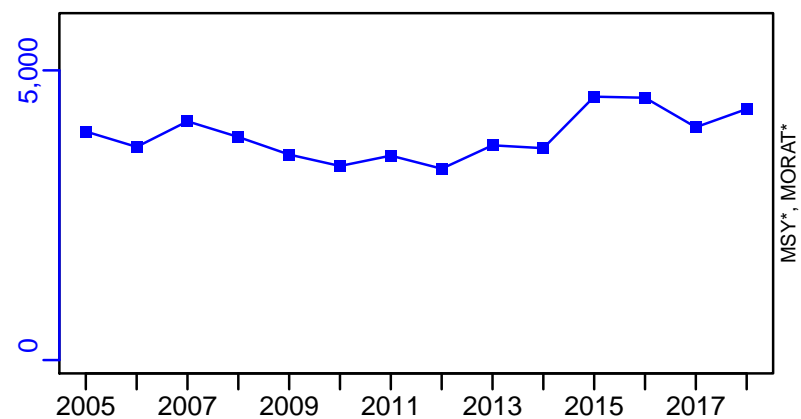


Recruits*



Lesser spotted dogfish ICES 6–7abcefg hij [LSDOGVI–VIIabcefg hij]

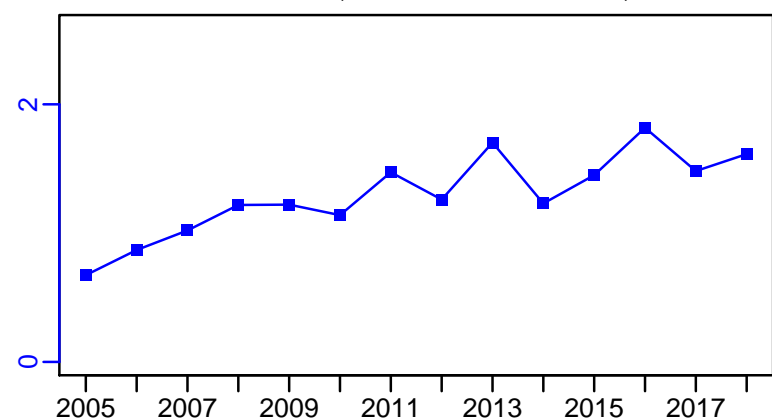
TL–MT, TC*, RecC* (2005–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



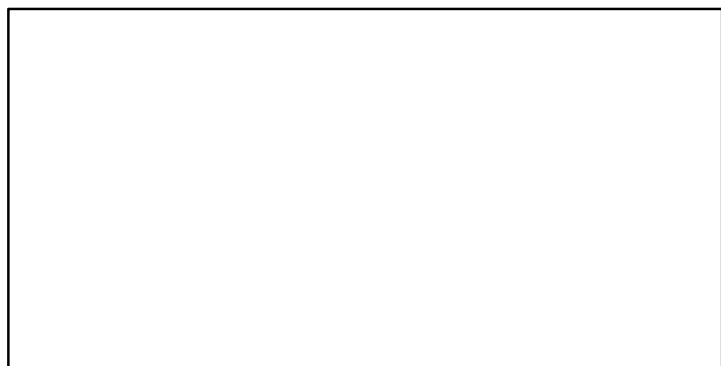
survB–index (2005–2018–ICESIMP2021)



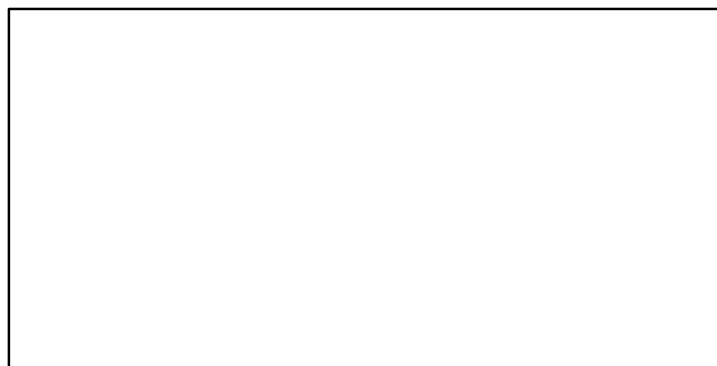
CPUE*



EFFORT*



CdivMSY*



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

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

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.73	Both	-
TN	-	-	-	-	-
R	R-relative	2018	0.913	-	1
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	3377		
TL	TL-MT	2018	3014		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2018	0.193		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



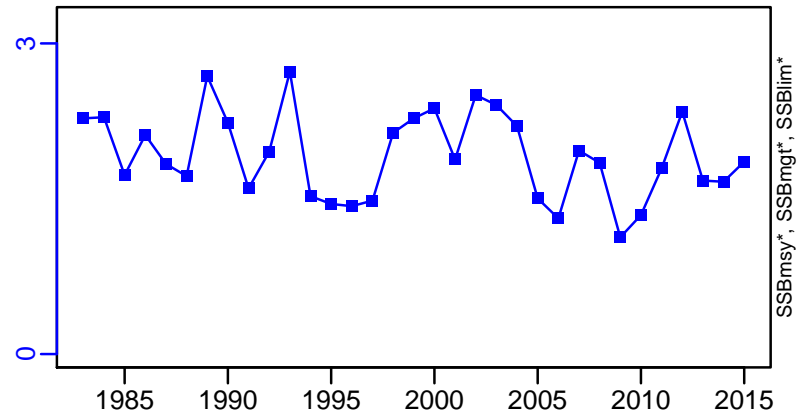
◆ Start Year ◆ End Year * No Data

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

TB*



SSB-index (1983–2015–ICESIMP2018)



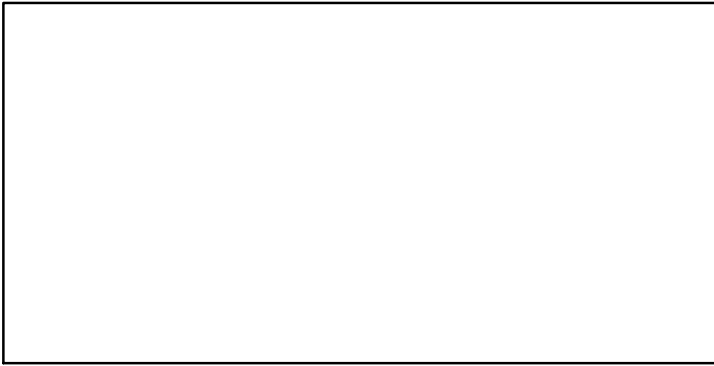
TN *



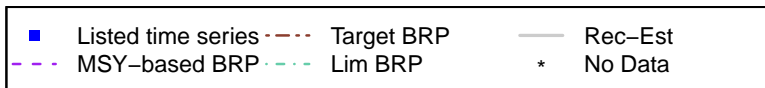
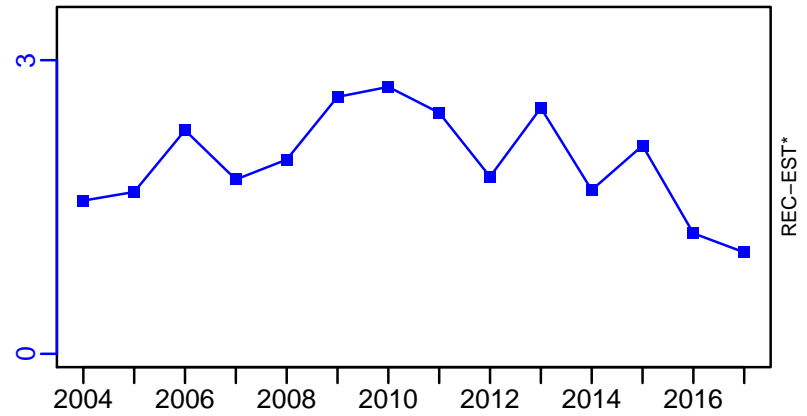
F*



ER*



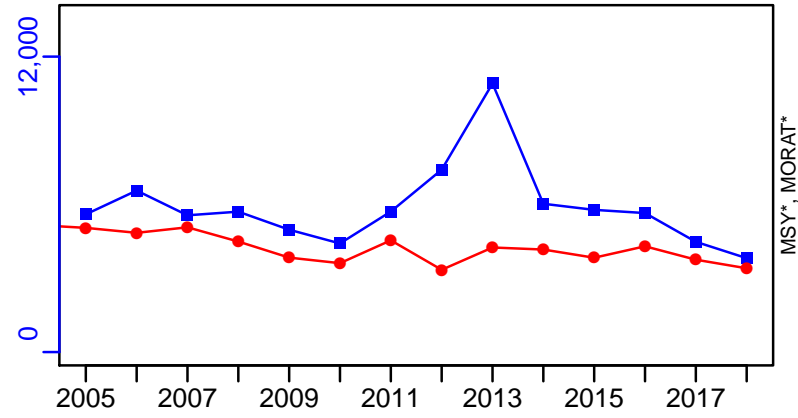
R-relative (1968–2018–ICESIMP2021)



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

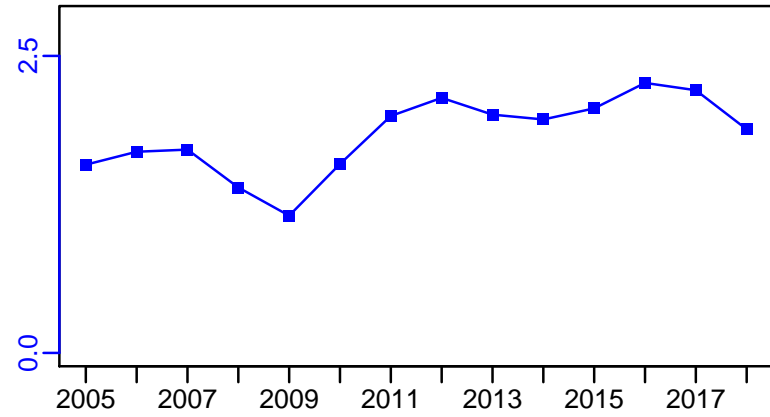
TC–MT, TL–MT, RecC* (1968–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



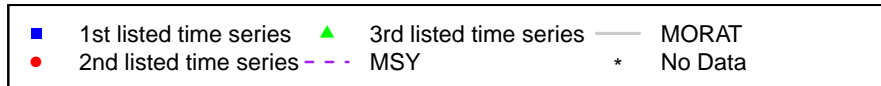
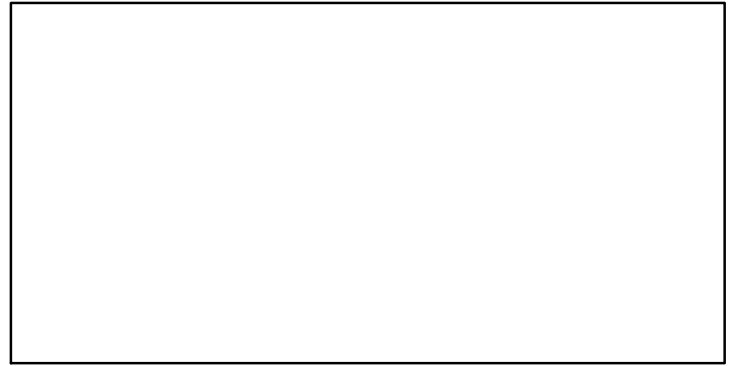
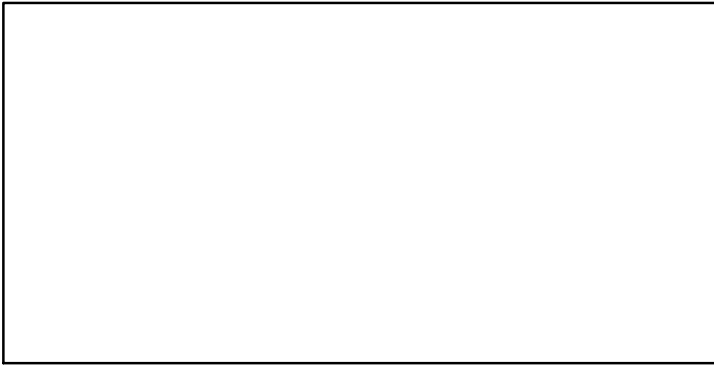
survB–index (1968–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Mackerel ICES Northeast Atlantic [MACKNEICES]

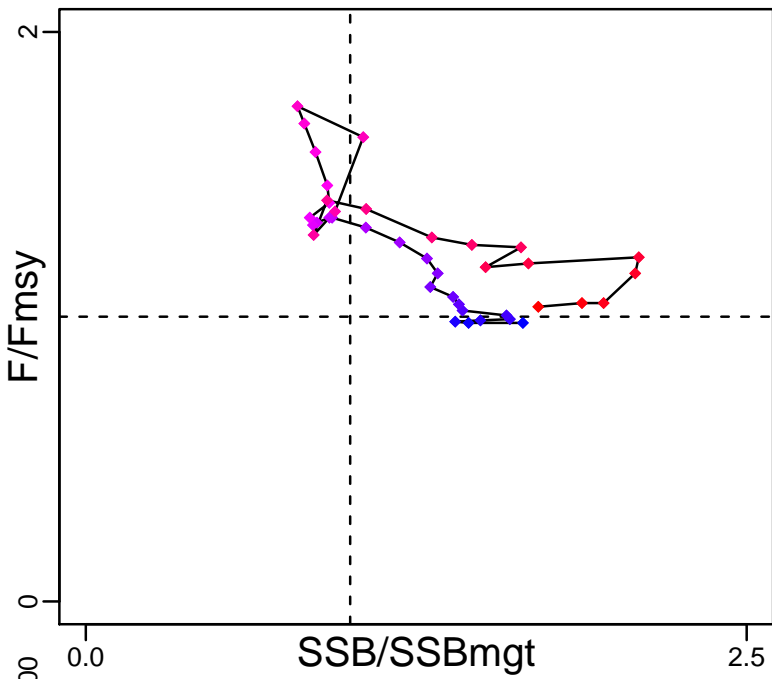
Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	WGWIDE-MACKNEICES-1980-2019-ICESIMP2021
Area	ICES Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2007, 2013, 2014, 2015, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	4,037,320
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.23
ERmsy	ERmsy-est-ratio	2019	0.199
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	2,500,000
Fmgt	Fmgt-1/yr	2019	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	726,365
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	1,940,000
Flim	Flim-1/yr	2017	0.48
ERlim	-	-	-

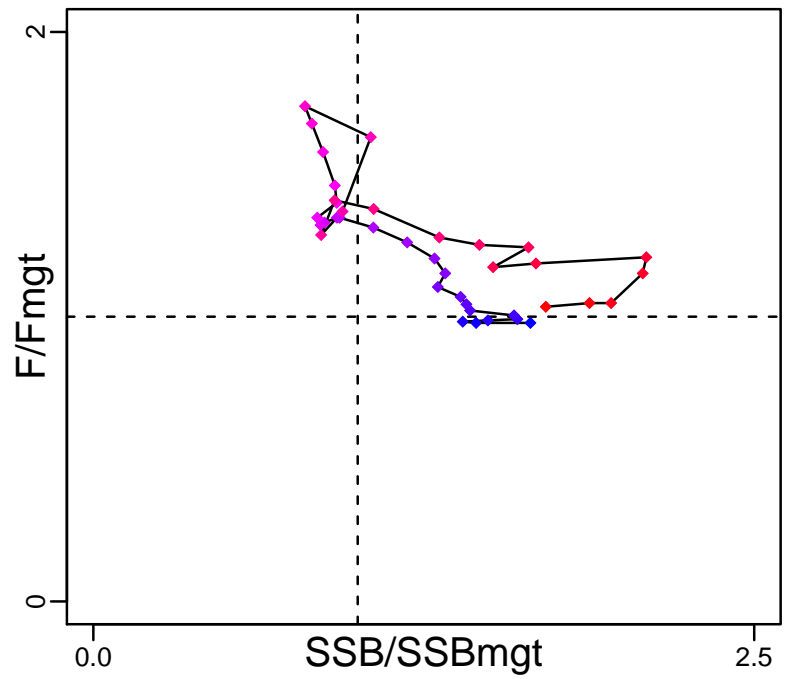
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5,684,879	-	-
SSB	SSB-MT	2019	4,312,156	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,486,290,000	-	0
F	F-1/yr	2019	0.238	-	4 to 8
ER	ER-calc-ratio	2019	0.181	-	-
TC	TC-MT	2019	1,026,437		
TL	TL-MT	2016	1,200,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.39		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.035		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.909		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.725		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.035		
ER/ERmgt	-	-	-		

Mackerel ICES Northeast Atlantic [MACKNEICES]

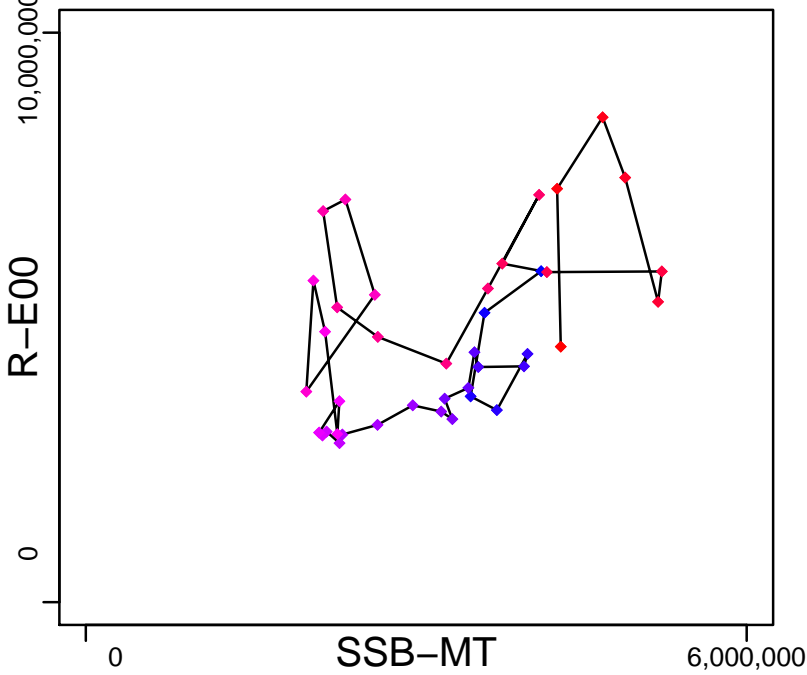
Kobe MSYpref (1980–2019–ICESIMP2021)



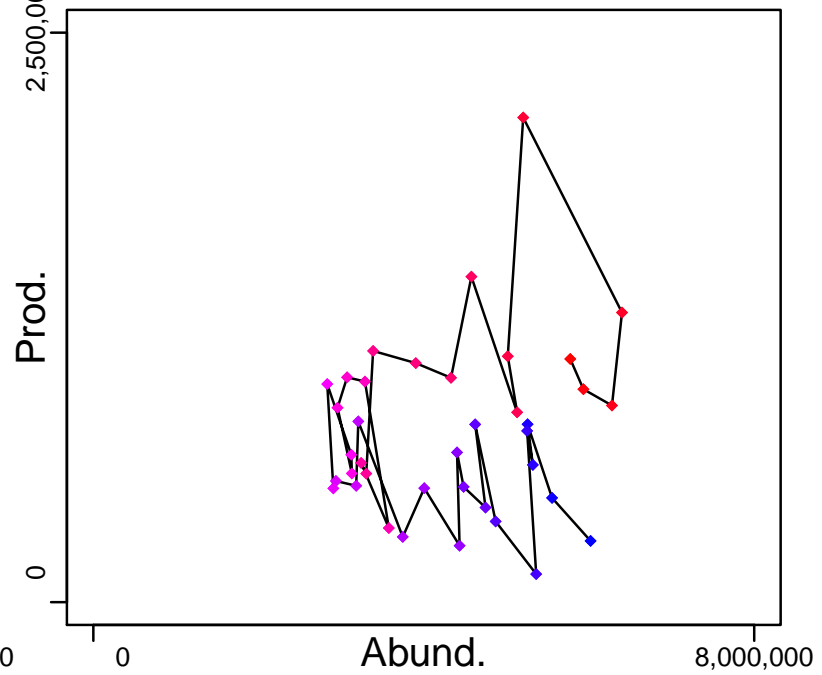
Kobe MGTpref (1980–2019–ICESIMP2021)



Spawner Recruit (1980–2019–ICESIMP2021)



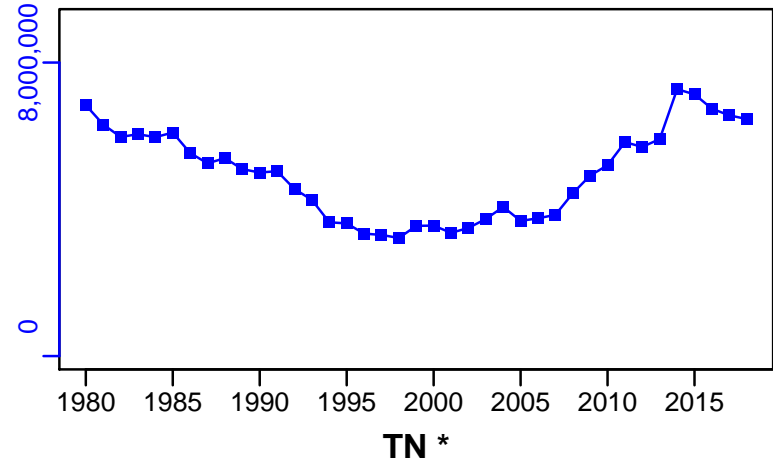
Production (1980–2019–ICESIMP2021)



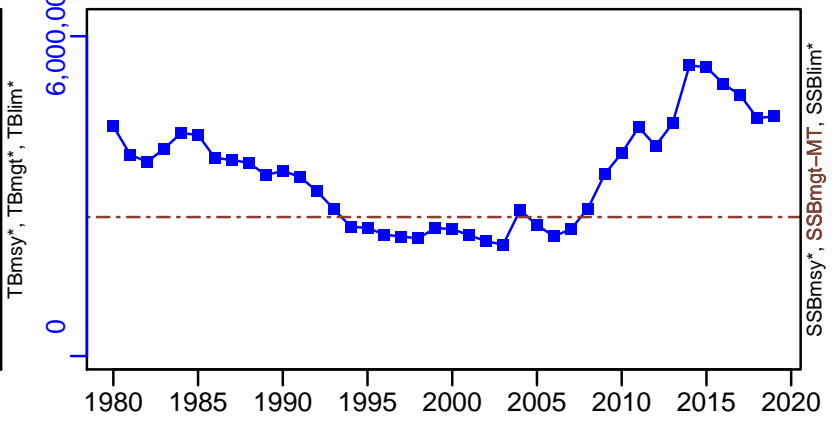
◆ Start Year ◆ End Year * No Data

Mackerel ICES Northeast Atlantic [MACKNEICES]

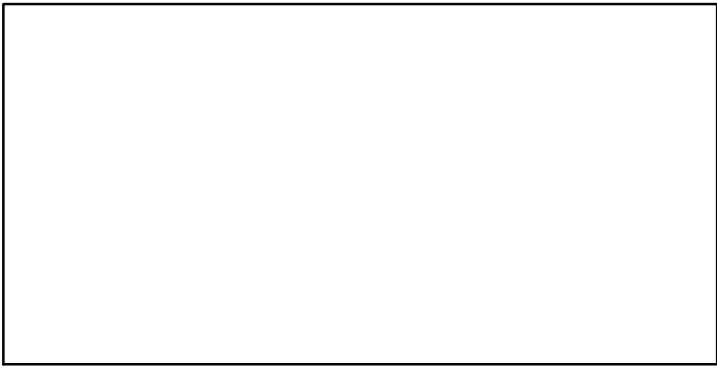
TB-MT (1980-2019-ICESIMP2021)



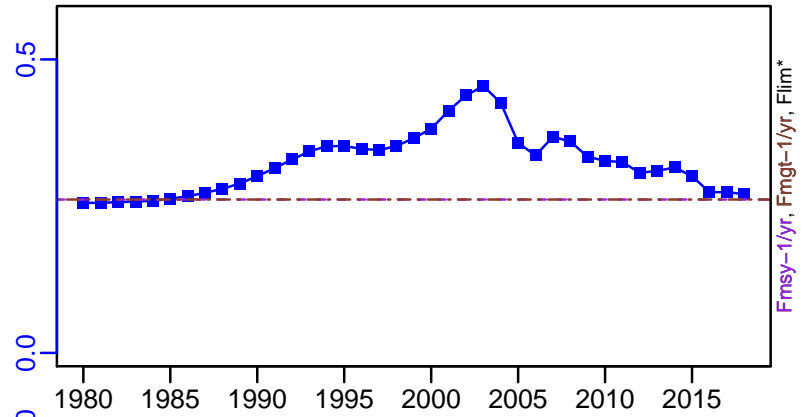
SSB-MT (1980-2019-ICESIMP2021)



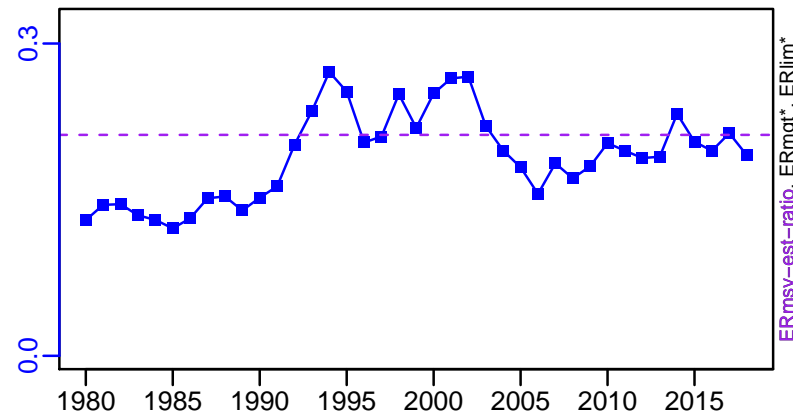
TN *



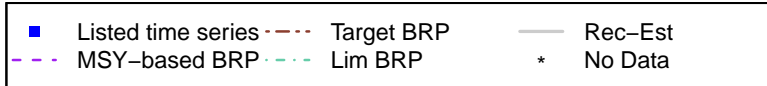
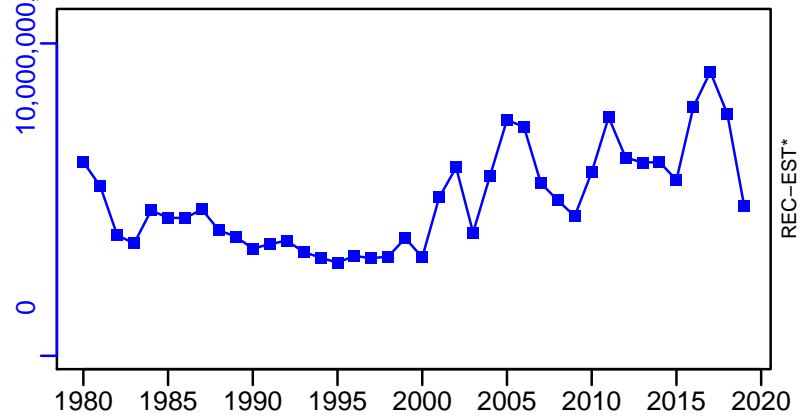
F-1/yr (1980-2019-ICESIMP2021)



ER-calc-ratio (1980-2019-ICESIMP2021)

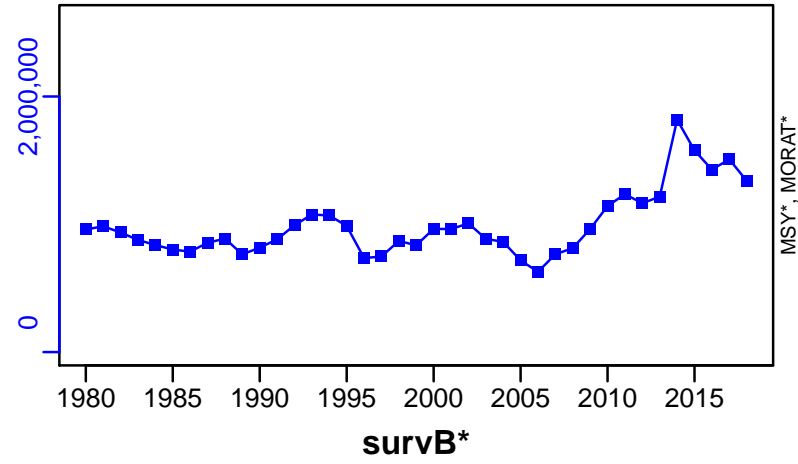


R-E00 (1980-2019-ICESIMP2021)



Mackerel ICES Northeast Atlantic [MACKNEICES]

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



TAC*, Cpair*, Cadv*



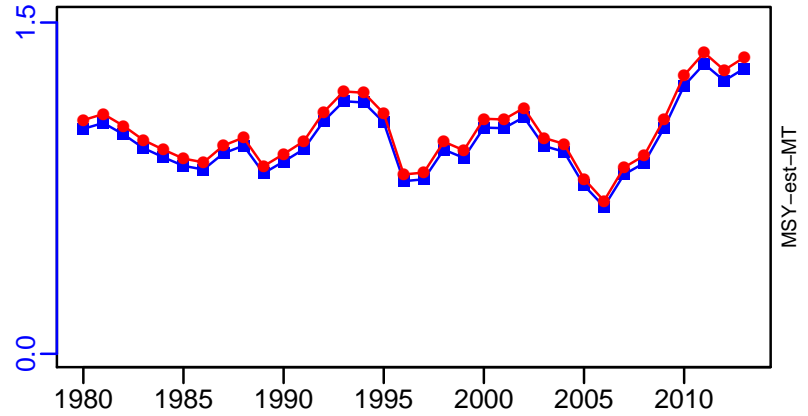
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1980-2014-ICESIMP2016)



Megrin ICES 8c-9a [MEG8c9a]

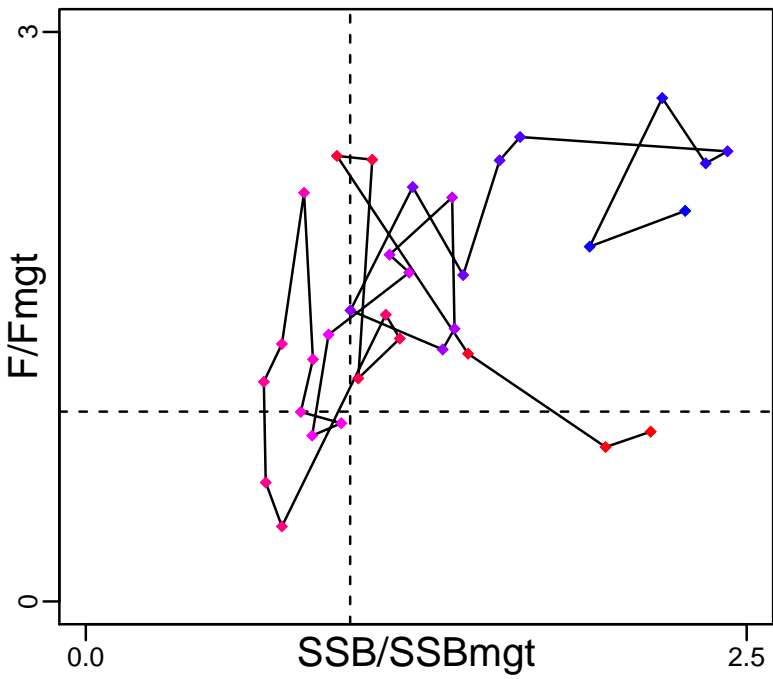
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEG8c9a-1985-2019-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.191
ERmsy	ERmsy-est-ratio	2019	0.318
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	980
Fmgt	Fmgt-1/yr	2019	0.191
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	700
Flim	Flim-1/yr	2018	0.45
ERlim	-	-	-

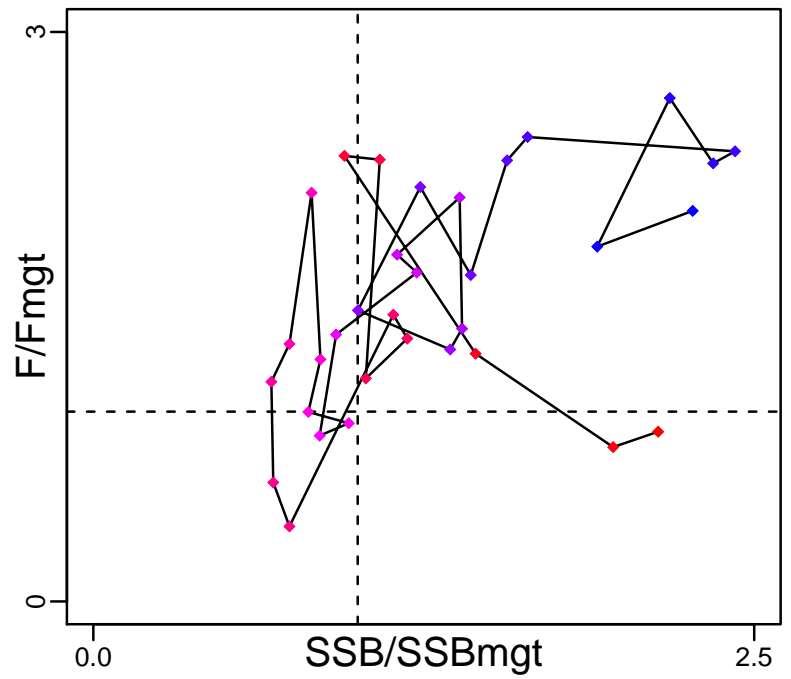
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2290	-	-
SSB	SSB-MT	2019	2652	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,542,000	-	1
F	F-1/yr	2019	0.171	-	2 to 4
ER	ER-calc-ratio	2019	0.154	-	-
TC	TC-MT	2019	352		
TL	TL-MT	2019	315		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.848		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.484		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.706		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.894		
ER/ERmgt	-	-	-		

Megrim ICES 8c-9a [MEG8c9a]

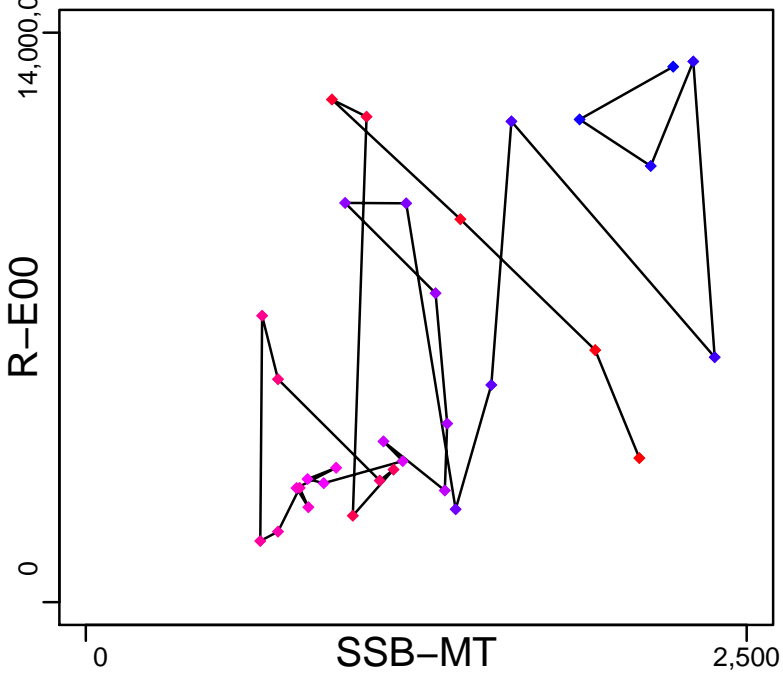
Kobe MSYpref (1985-2019-ICESIMP2021)



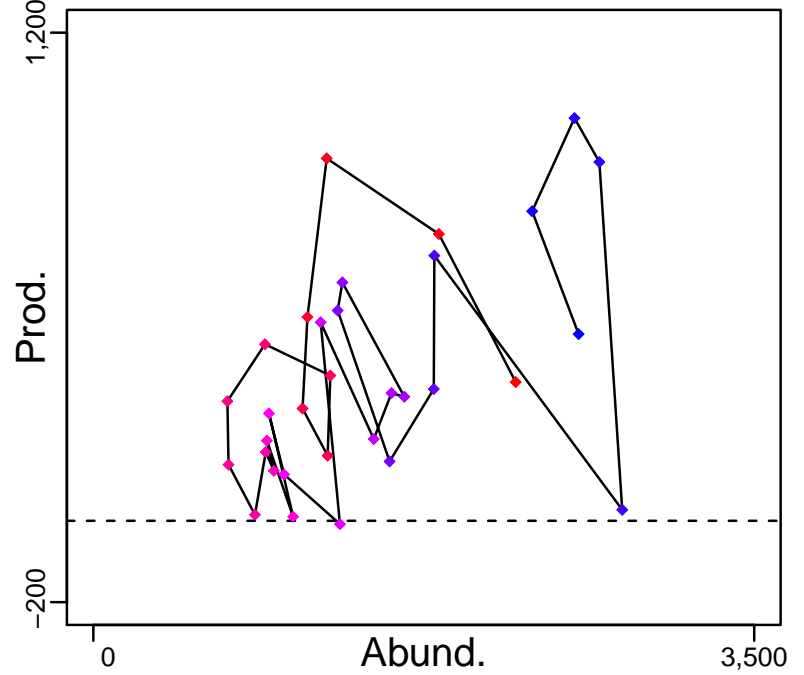
Kobe MGTpref (1985-2019-ICESIMP2021)



Spawner Recruit (1985-2019-ICESIMP2021)



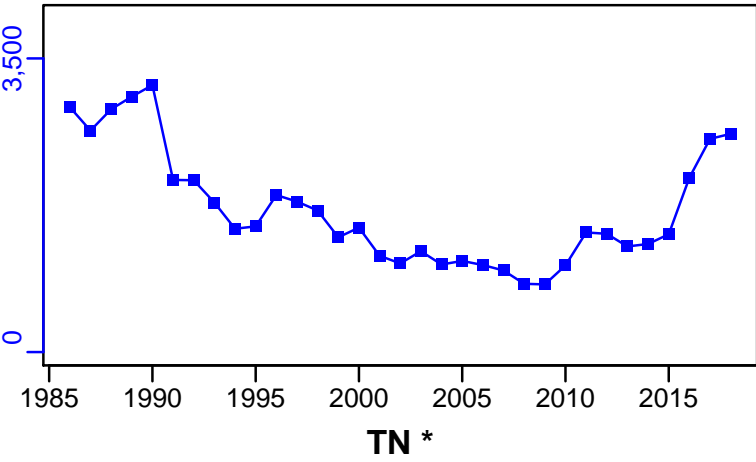
Production (1985-2019-ICESIMP2021)



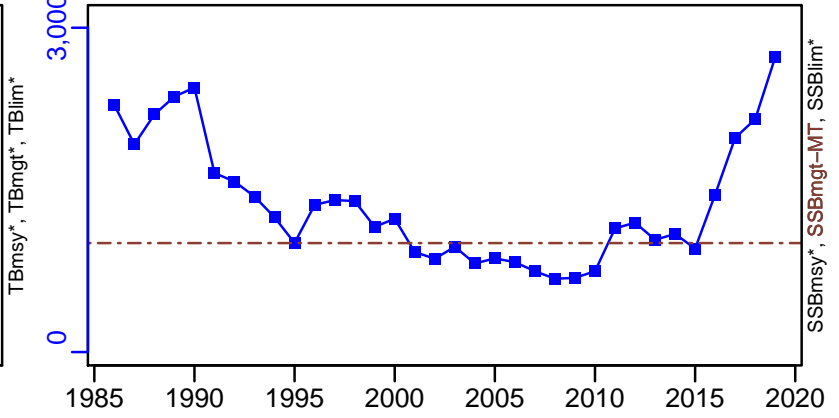
◆ Start Year ◆ End Year * No Data

Megrim ICES 8c-9a [MEG8c9a]

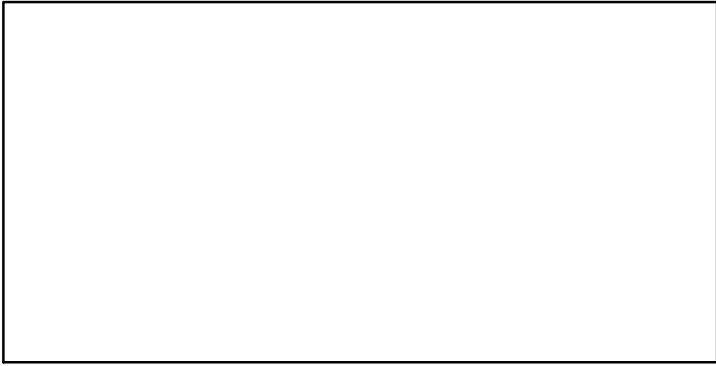
TB-MT (1985-2019-ICESIMP2021)



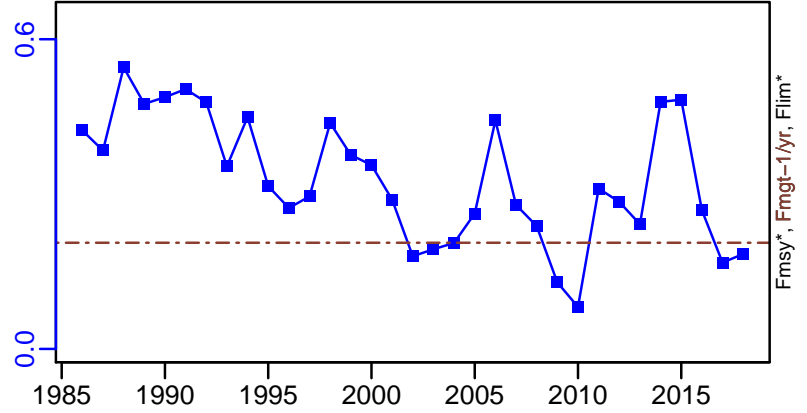
SSB-MT (1985-2019-ICESIMP2021)



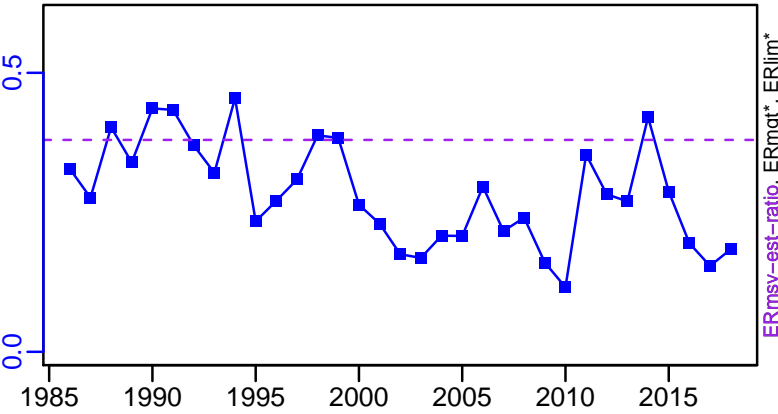
TN *



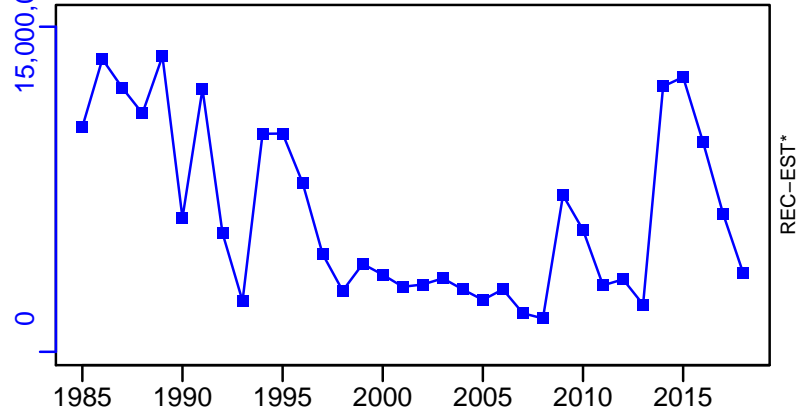
F-1/yr (1985-2019-ICESIMP2021)



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

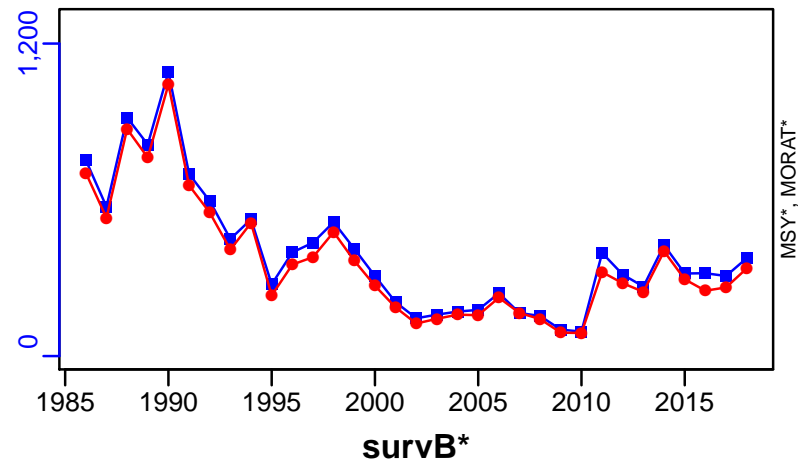


R-E00 (1985-2019-ICESIMP2021)



Megrim ICES 8c-9a [MEG8c9a]

TC-MT, TL-MT, RecC* (1985-2019-ICESIMP2021)



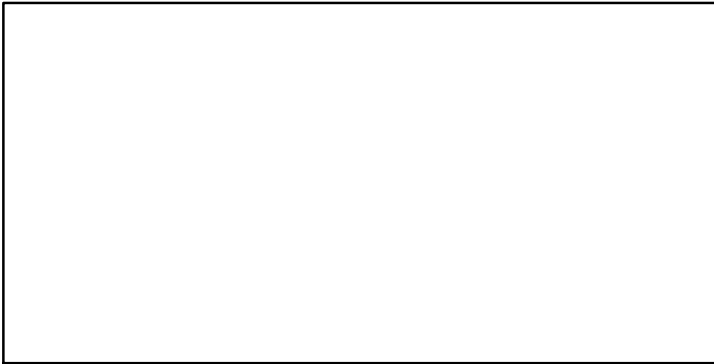
TAC*, Cpair*, Cadv*



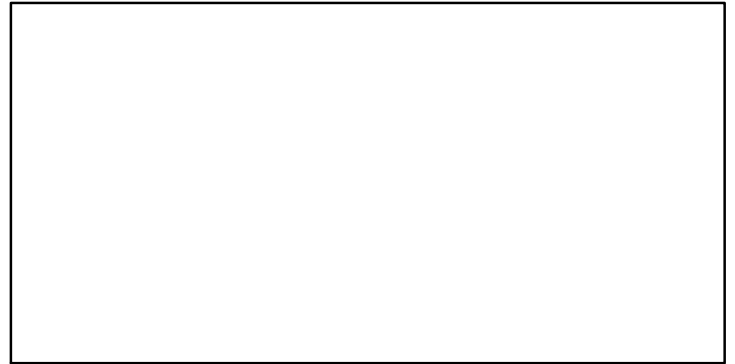
CPUE*



EFFORT*



CdivMSY*



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

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

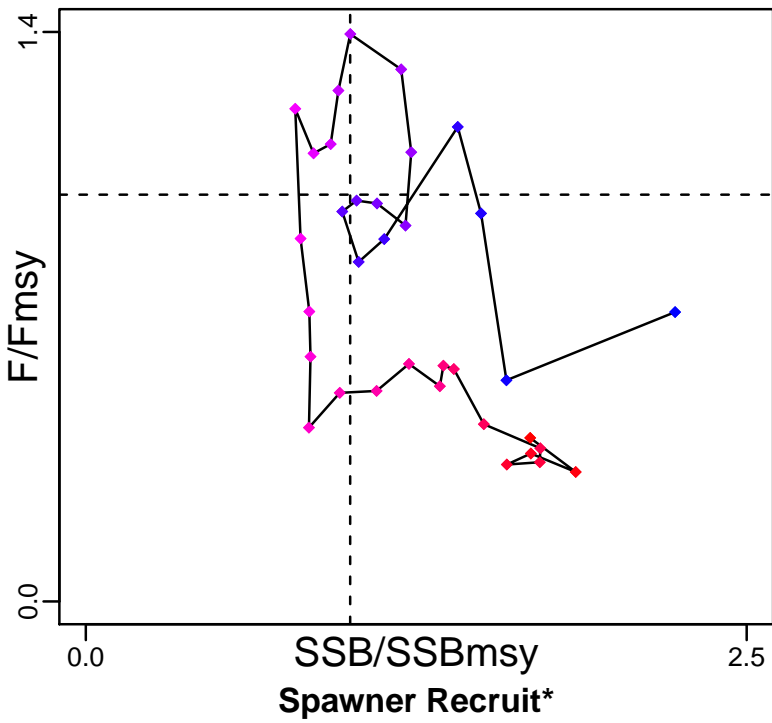
Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPIVa-VIa-1985-2018-ICESIMP2021
Area	ICES 4a-6a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2015, 2016, 2017, 2018

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

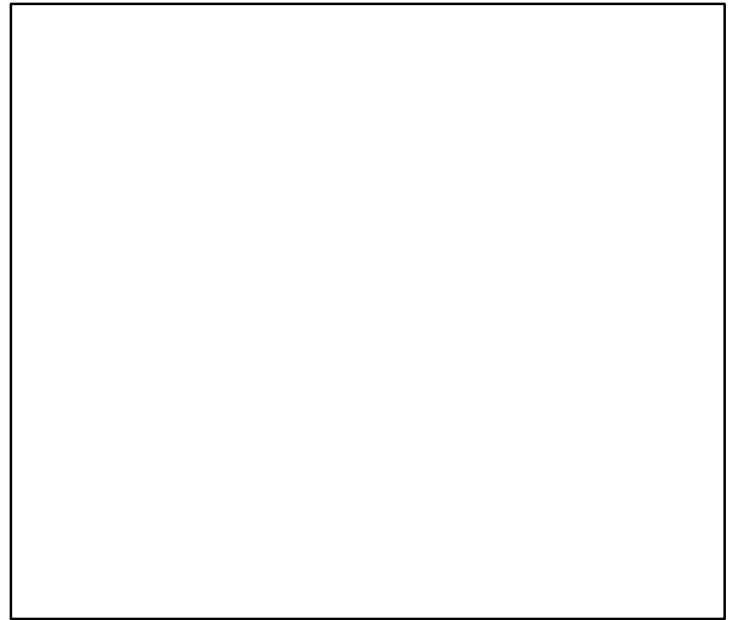
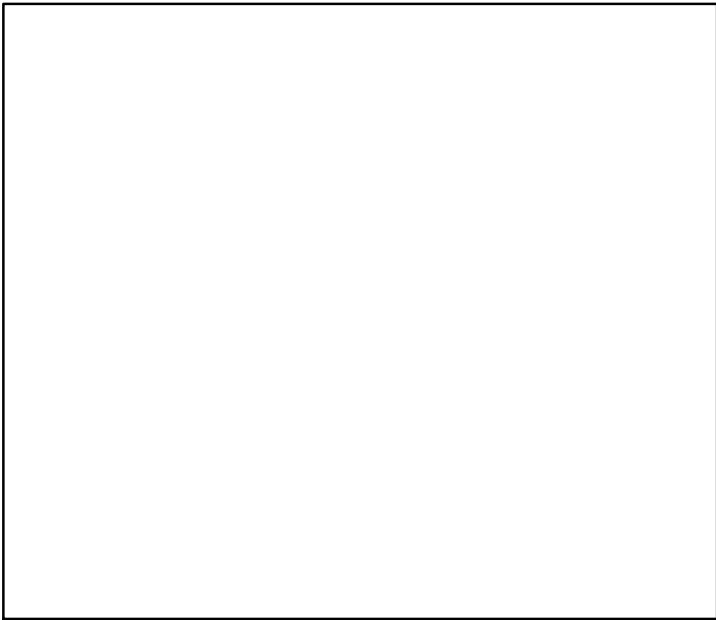
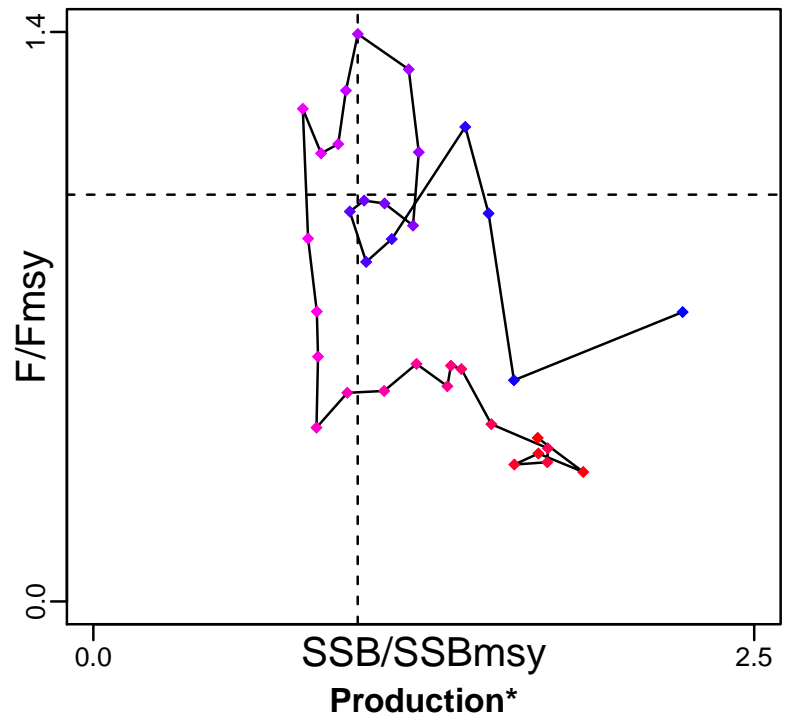
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	3258		
TL	TL-MT	2018	3003		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	1.681		
F/Fmsy	FdivFmsy-dimensionless	2018	0.402		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1985-2018-ICESIMP2021)



Kobe MGTpref (1985-2018-ICESIMP2021)



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

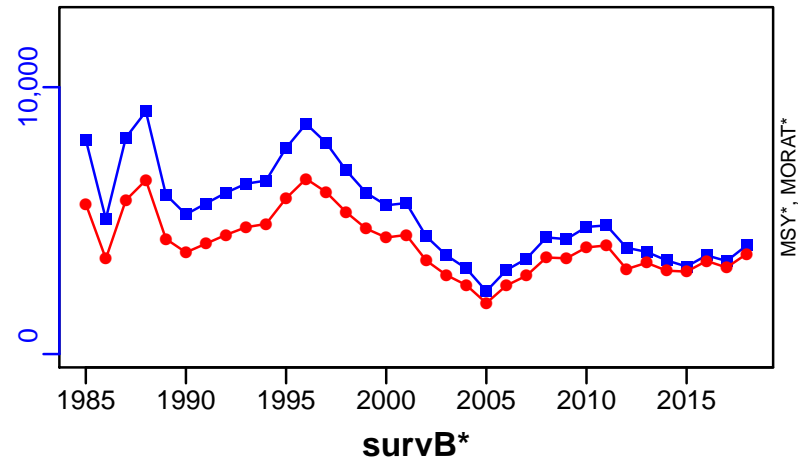


Recruits*



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

TC-MT, TL-MT, RecC* (1985-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



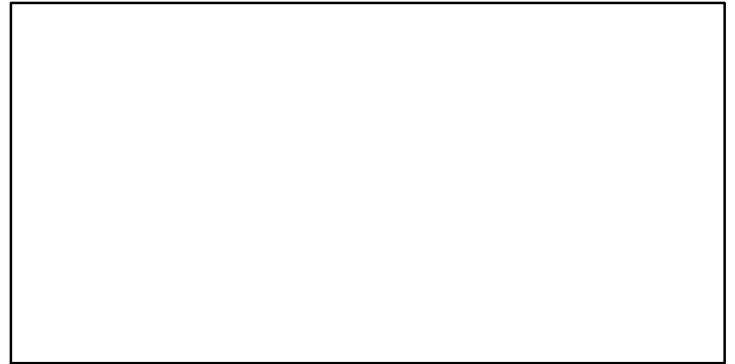
CPUE*



EFFORT*



CdivMSY*



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

Megrim spp Rockall Bank [MEGSPPVlb]

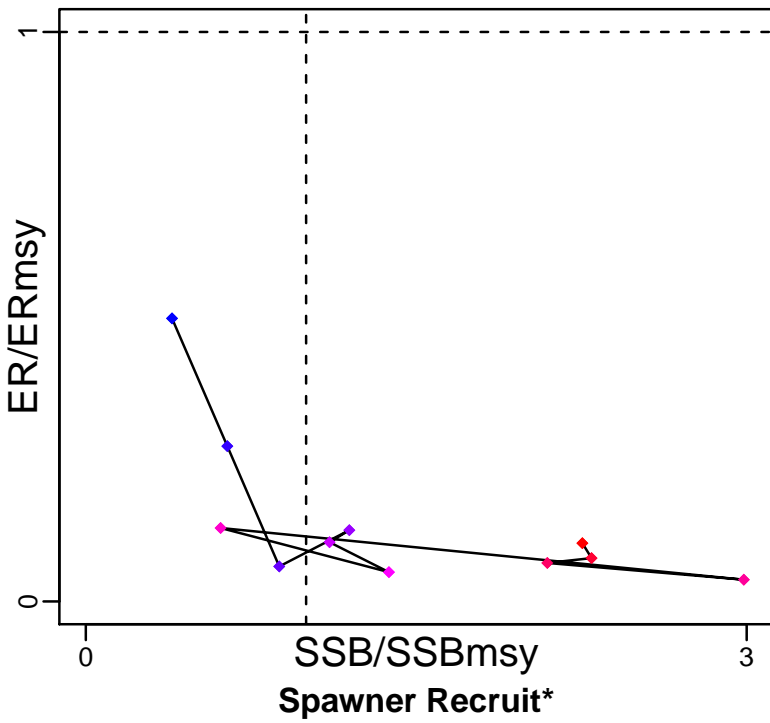
Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPVlb-1991-2019-ICESIMP2021
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2016	1446
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.432
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1964
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

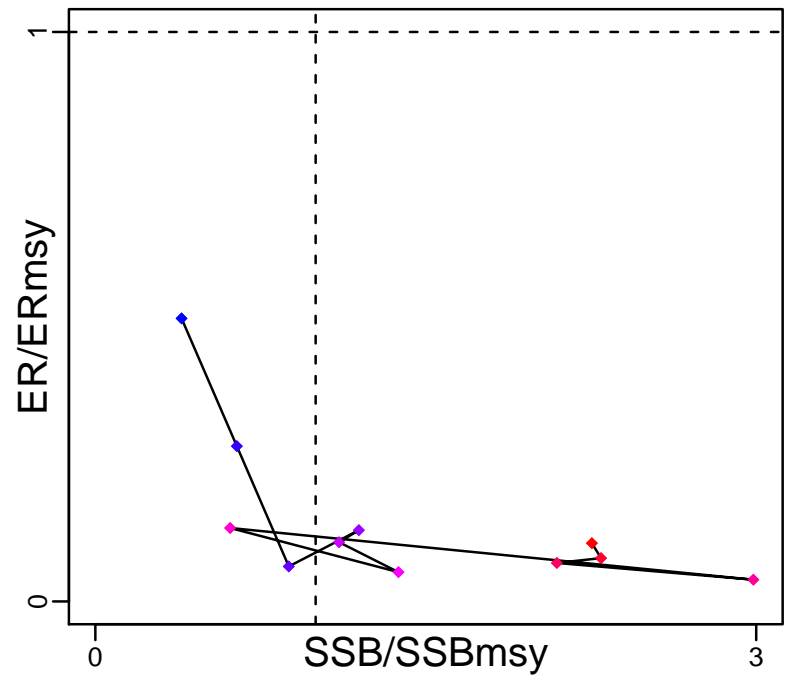
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	4510	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2016	0.044	-	-
TC	-	-	-		
TL	TL-MT	2019	763		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	3.118		
F/Fmsy	FdivFmsy-dimensionless	2019	0.932		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.102		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim spp Rockall Bank [MEGSPPV1b]

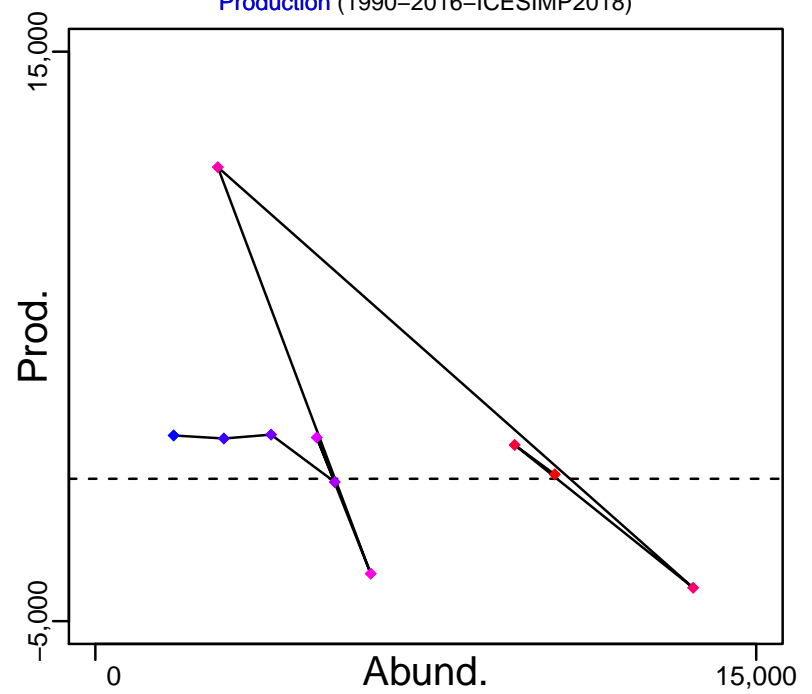
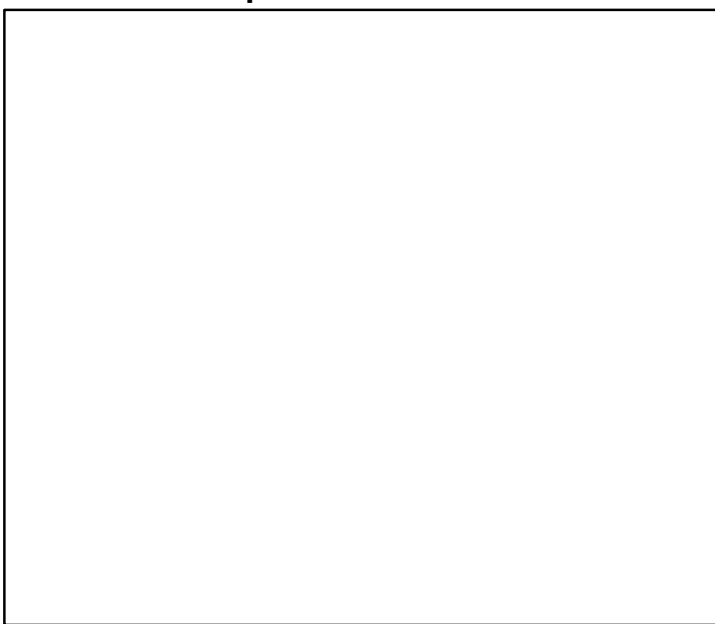
Kobe MSYpref (1990–2016–ICESIMP2018)



Kobe MGTpref (1990–2016–ICESIMP2018)



Production (1990–2016–ICESIMP2018)



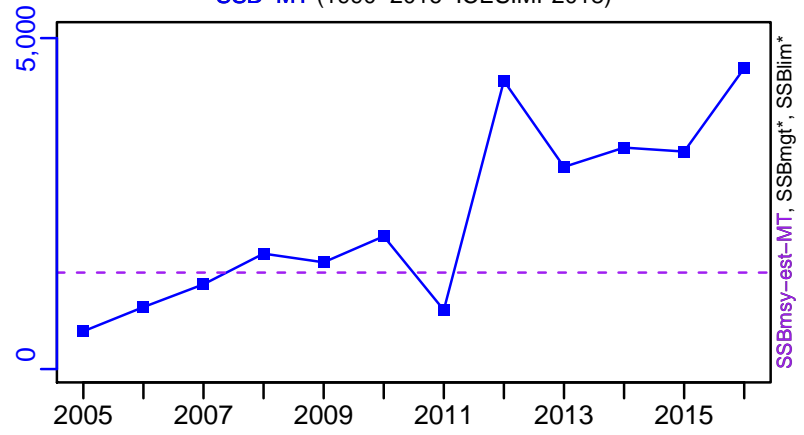
◆ Start Year ◆ End Year * No Data

Megrim spp Rockall Bank [MEGSPPVlb]

TB*



SSB-MT (1990–2016–ICESIMP2018)



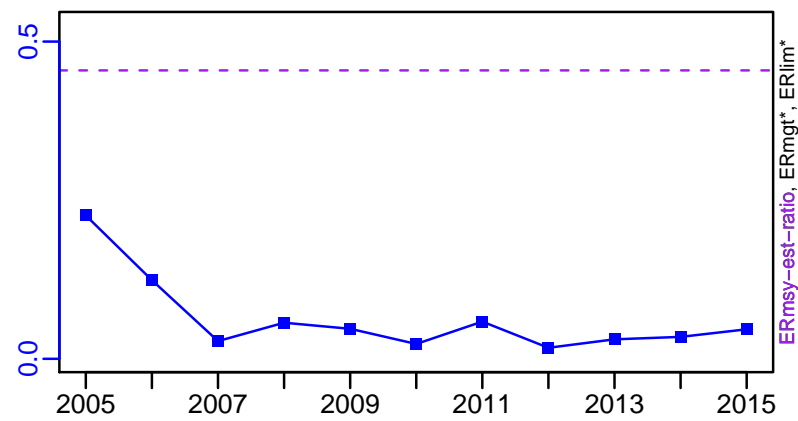
TN *



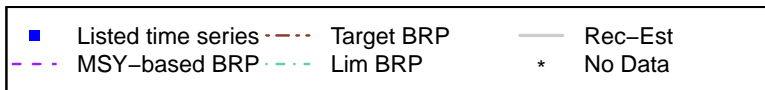
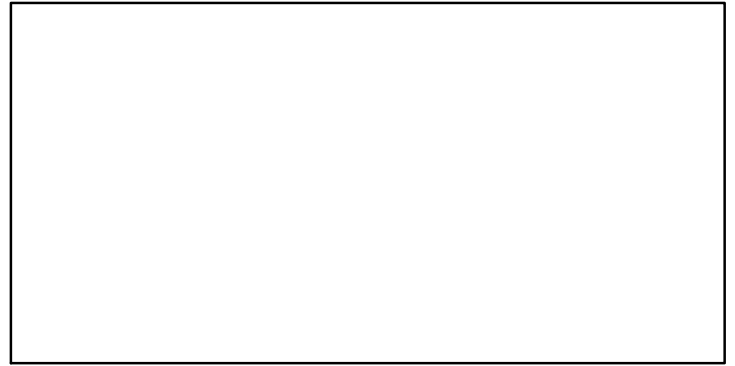
F*



ER-calc-ratio (1990–2016–ICESIMP2018)

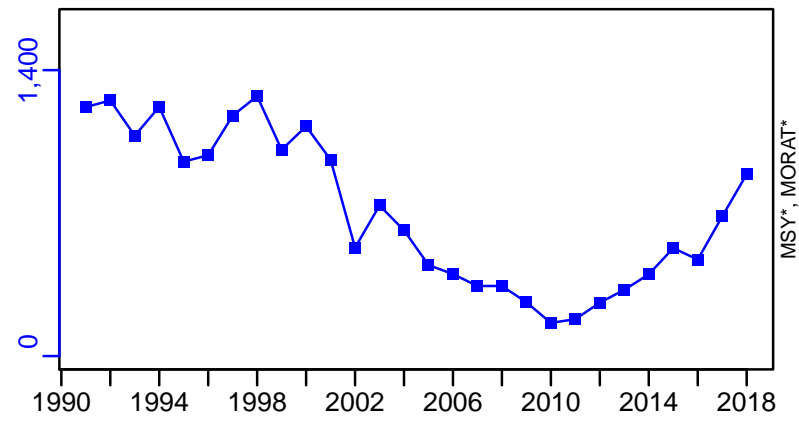


Recruits*



Megrim spp Rockall Bank [MEGSPPVlb]

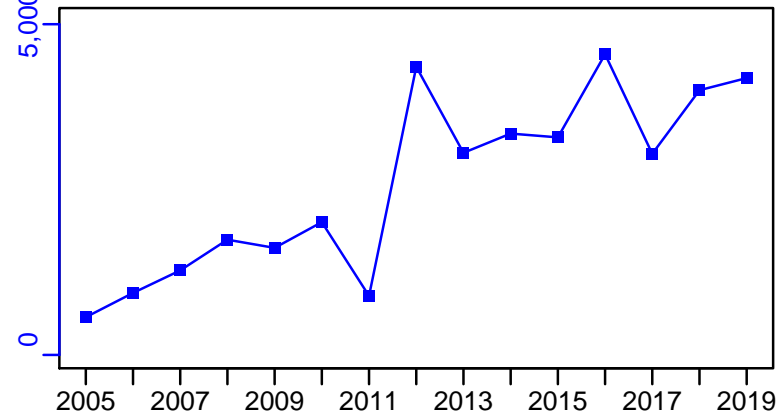
TL-MT, TC*, RecC* (1991–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



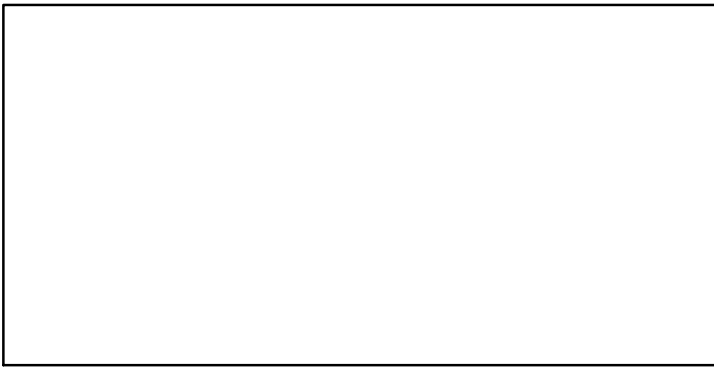
survB-MT (1991–2019–ICESIMP2021)



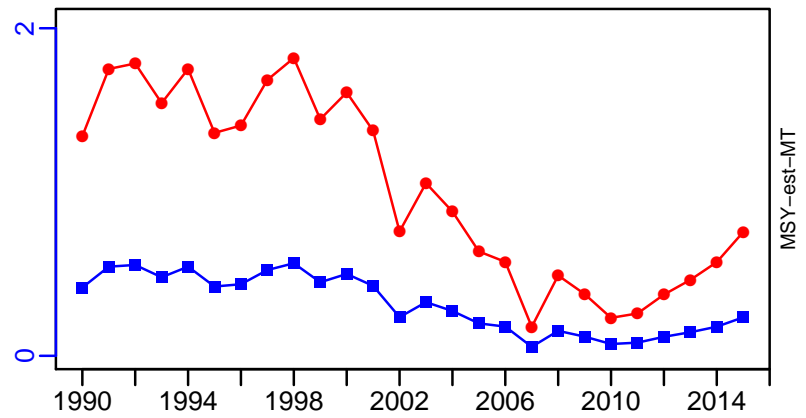
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1990–2016–ICESIMP2018)



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

Megrim ICES 7-8abd [MEGVII-VIIIabd]

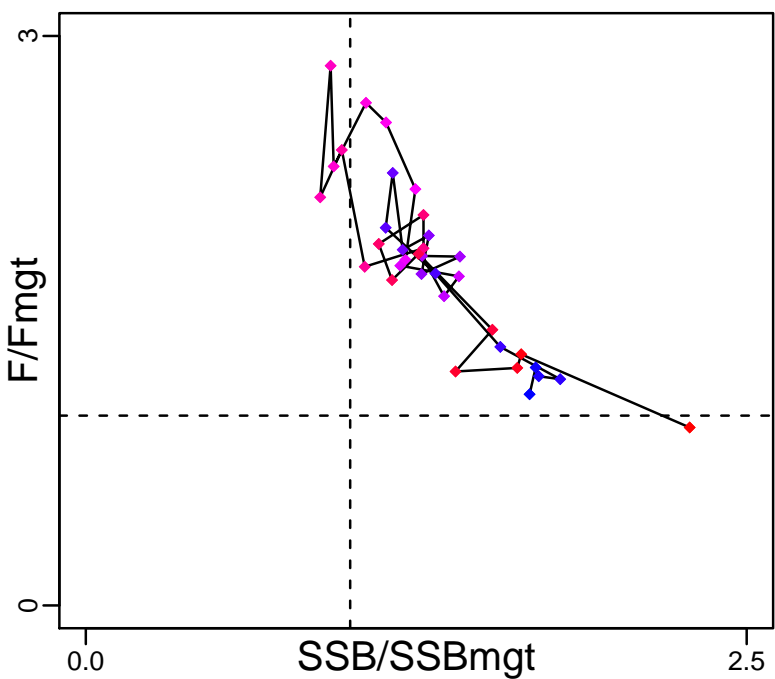
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEGVII-VIIIabd-1983-2019-ICESIMP2021
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.191
ERmsy	ERmsy-est-ratio	2019	0.427
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	41,800
Fmgt	Fmgt-1/yr	2019	0.191
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	37,100
Flim	Flim-1/yr	2018	0.53
ERlim	-	-	-

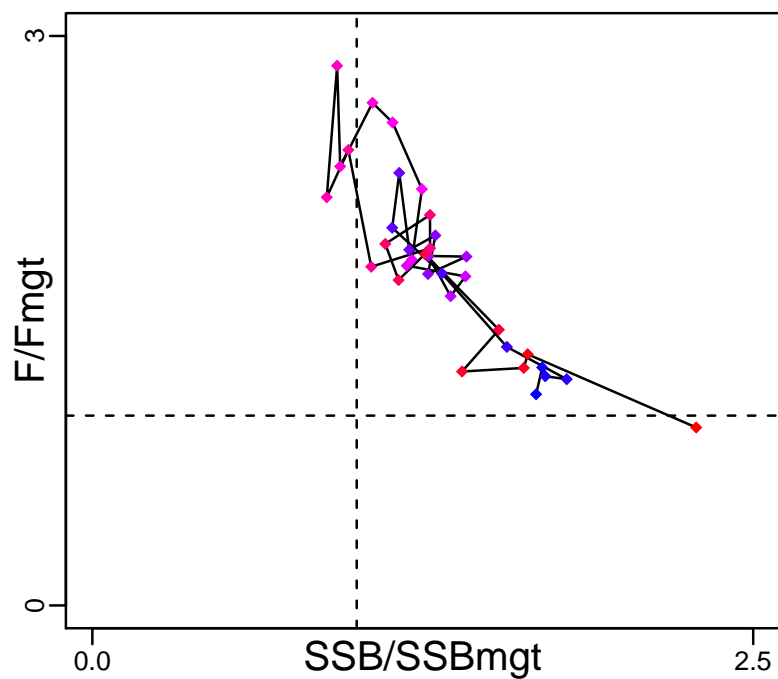
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	150,653	-	-
SSB	SSB-MT	2019	100,393	-	-
TN	-	-	-	-	-
R	R-E00	2019	223,736,000	-	1
F	F-1/yr	2019	0.179	-	3 to 6
ER	ER-calc-ratio	2019	0.094	-	-
TC	TC-MT	2019	14,133		
TL	TL-MT	2019	12,279		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.152		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.402		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.937		
ER/ERmgt	-	-	-		

Megrim ICES 7–8abd [MEGVII–VIIIabd]

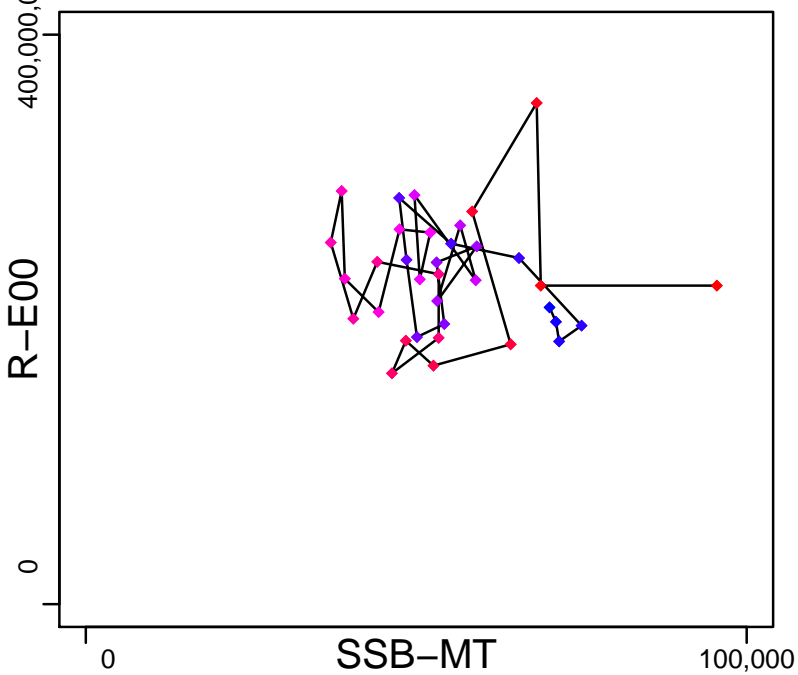
Kobe MSYpref (1983–2019–ICESIMP2021)



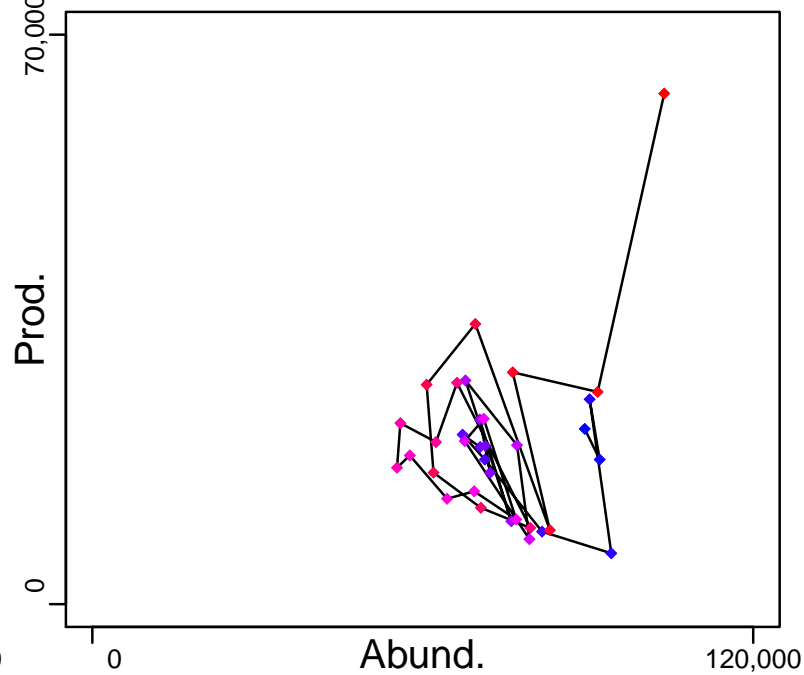
Kobe MGTpref (1983–2019–ICESIMP2021)



Spawner Recruit (1983–2019–ICESIMP2021)



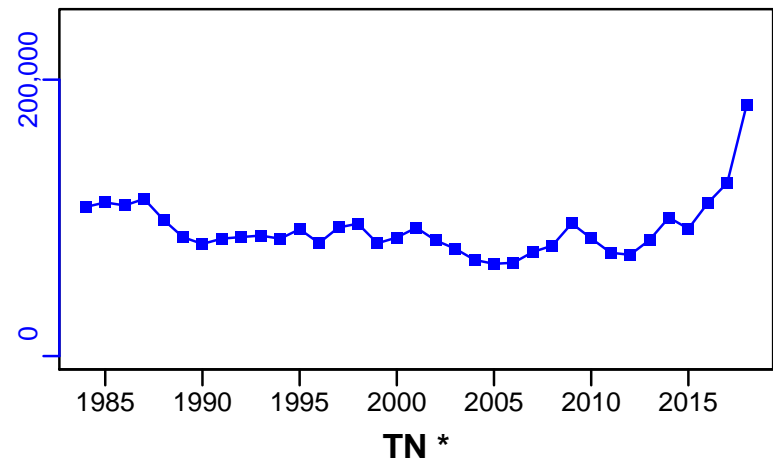
Production (1983–2019–ICESIMP2021)



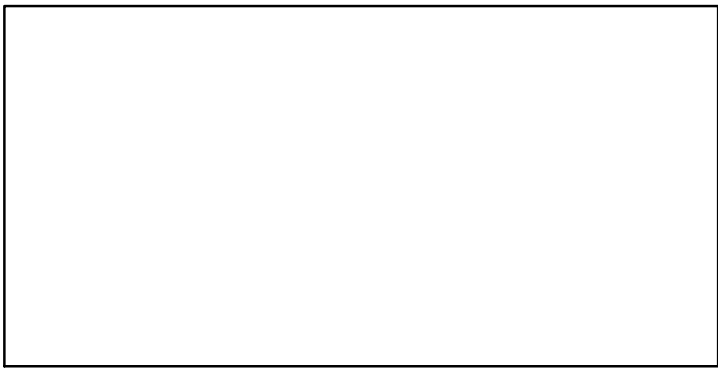
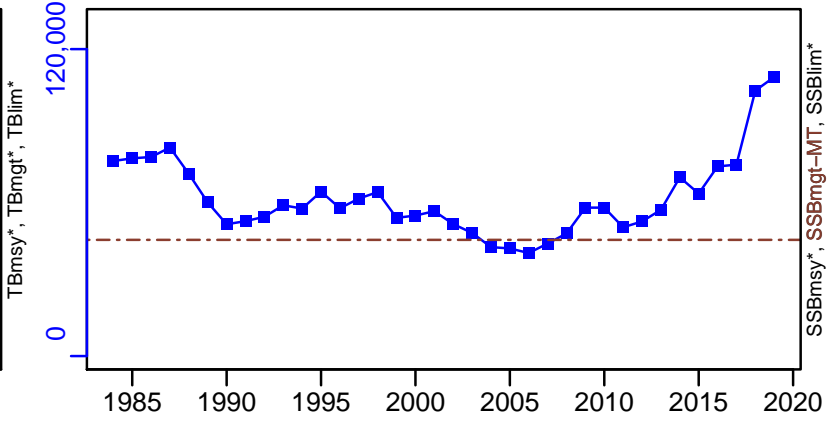
◆ Start Year ◆ End Year * No Data

Megrim ICES 7–8abd [MEGVII–VIIIabd]

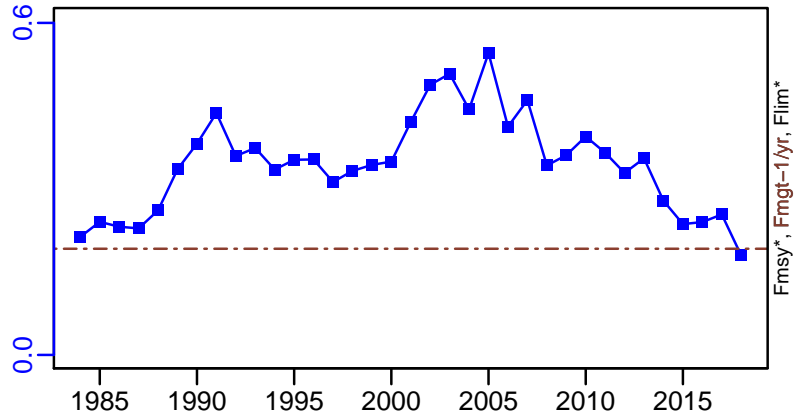
TB–MT (1983–2019–ICESIMP2021)



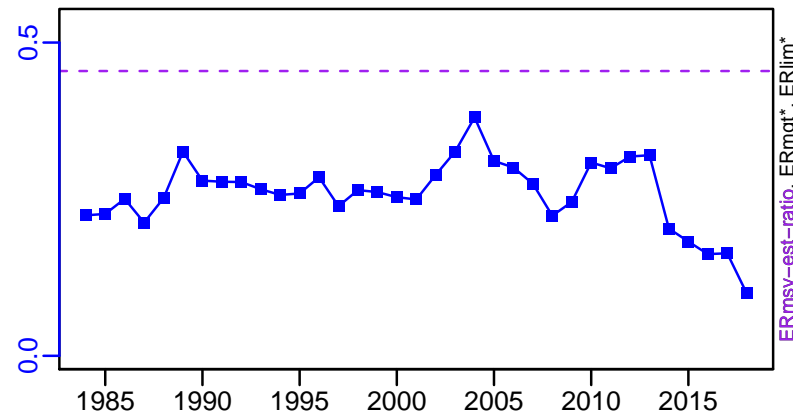
SSB–MT (1983–2019–ICESIMP2021)



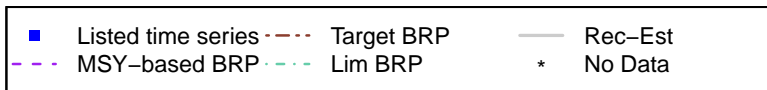
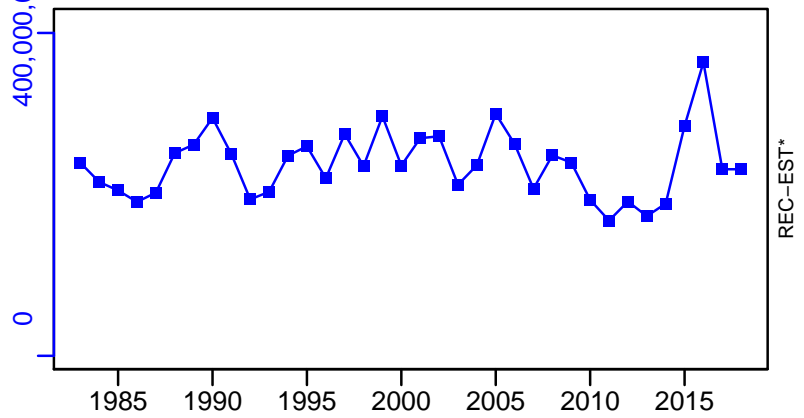
F–1/yr (1983–2019–ICESIMP2021)



ER–calc–ratio (1983–2019–ICESIMP2021)

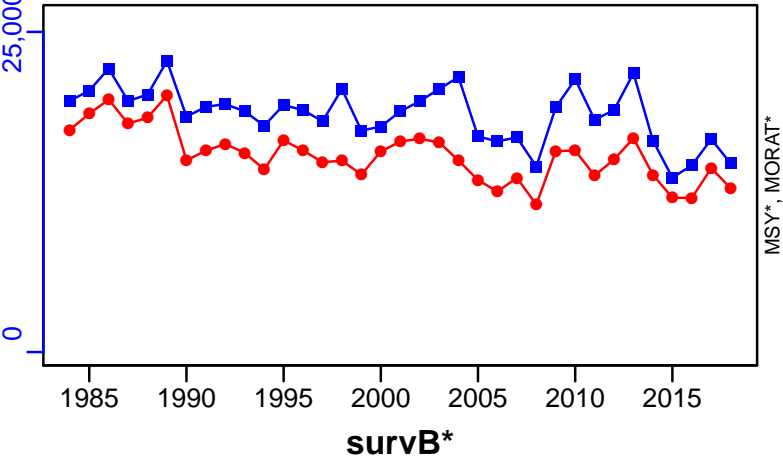


R–E00 (1983–2019–ICESIMP2021)



Megrim ICES 7–8abd [MEGVII–VIIIabd]

TC–MT, TL–MT, RecC* (1983–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Norway lobster Noup (FU 10) [NEPHFU10]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU10-1994-2017-ICESIMP2018
Area	Noup (FU 10)
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

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	9		
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*

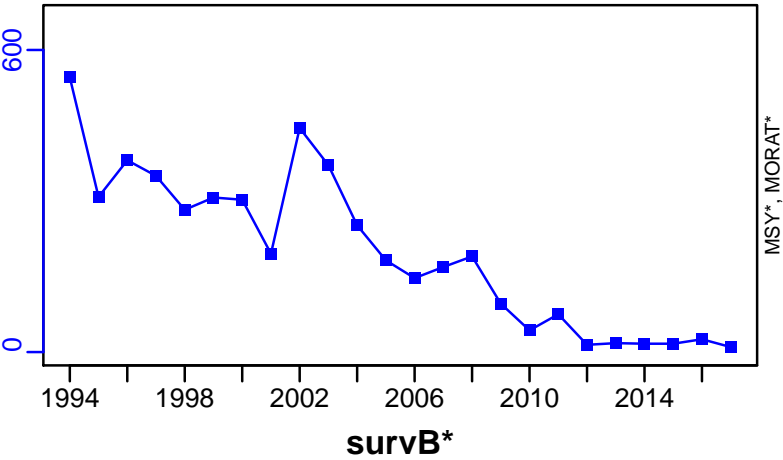


Recruits*



Norway lobster Noup (FU 10) [NEPHFU10]

TL-MT, TC*, RecC* (1994–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Norway lobster North Minch (FU 11) [NEPHFU11]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU11-1981-2019-ICESIMP2021
Area	North Minch (FU 11)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.108
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.108
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	0.064	-	-
TC	TC-MT	2019	2020		
TL	TL-MT	2019	1961		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.991		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster North Minch (FU 11) [NEPHFU11]

TB*



SSB*



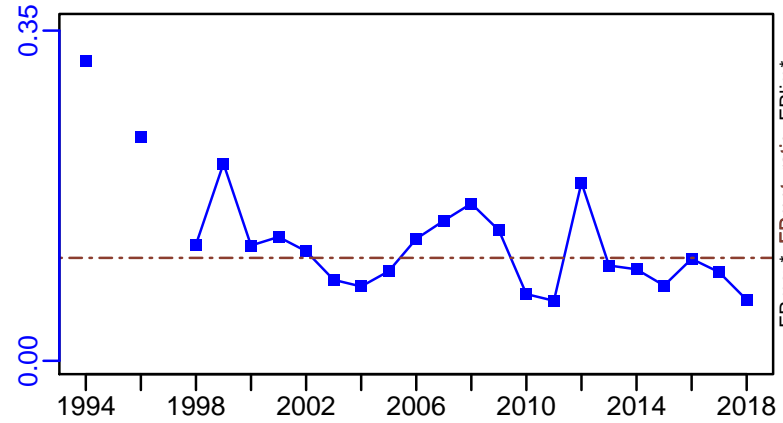
TN *



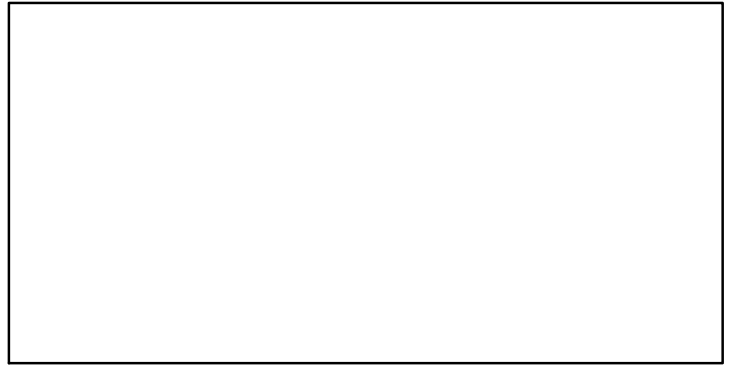
F*



ER-ratio (1981–2019–ICESIMP2021)



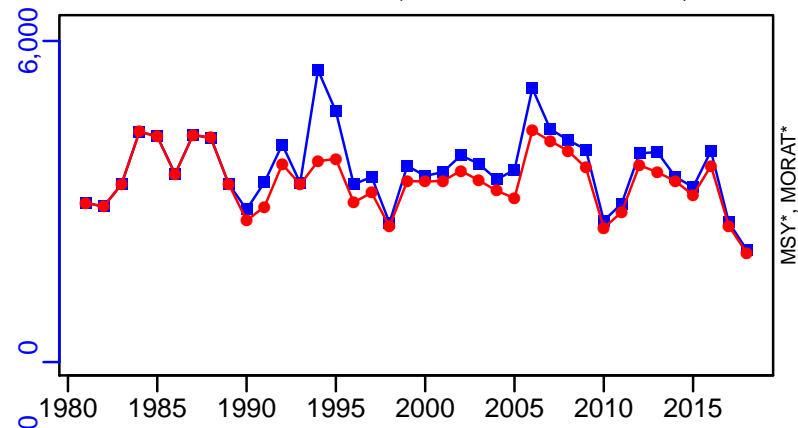
Recruits*



Norway lobster North Minch (FU 11) [NEPHFU11]

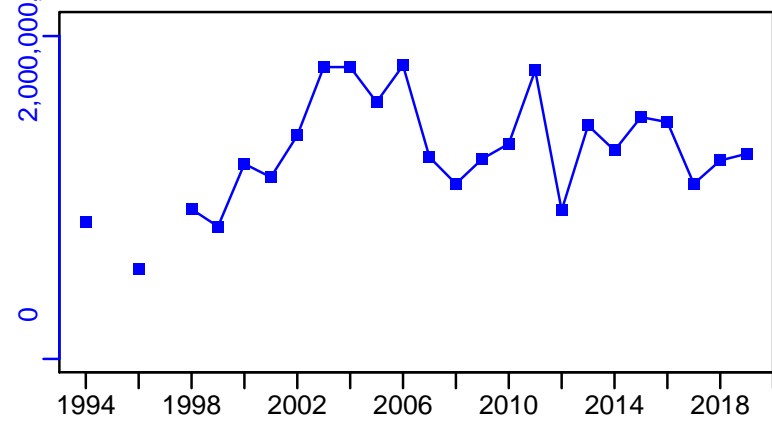
TC-MT, TL-MT, RecC* (1981-2019-ICESIMP2021)

TAC*, Cpair*, Cadv*



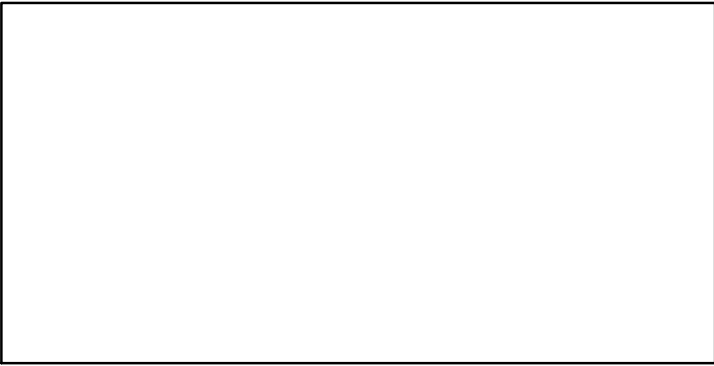
survB-E00 (1981-2019-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Norway lobster South Minch (FU 12) [NEPHFU12]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU12-1979-2019-ICESIMP2021
Area	South Minch (FU 12)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2019, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.117
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.117
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	0.048	-	-
TC	TC-MT	2019	2590		
TL	TL-MT	2019	2536		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.812		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster South Minch (FU 12) [NEPHFU12]

TB*



SSB*



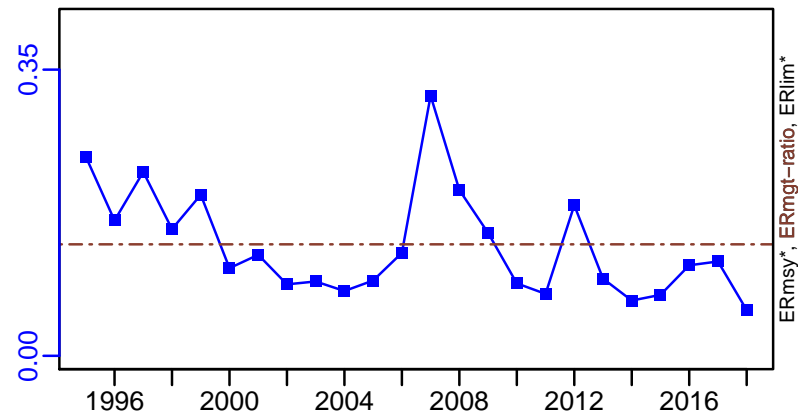
TN *



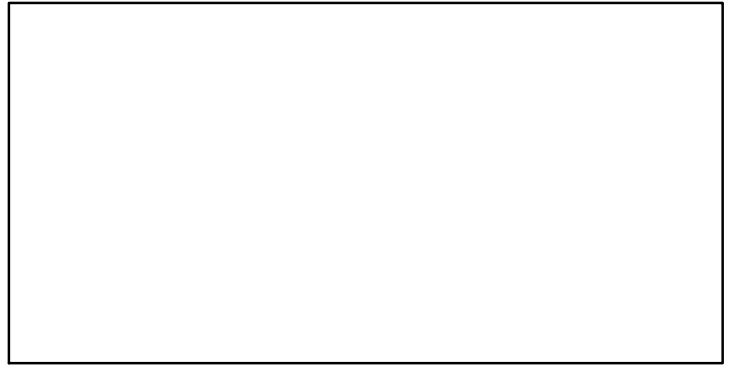
F*



ER-ratio (1979–2019–ICESIMP2021)

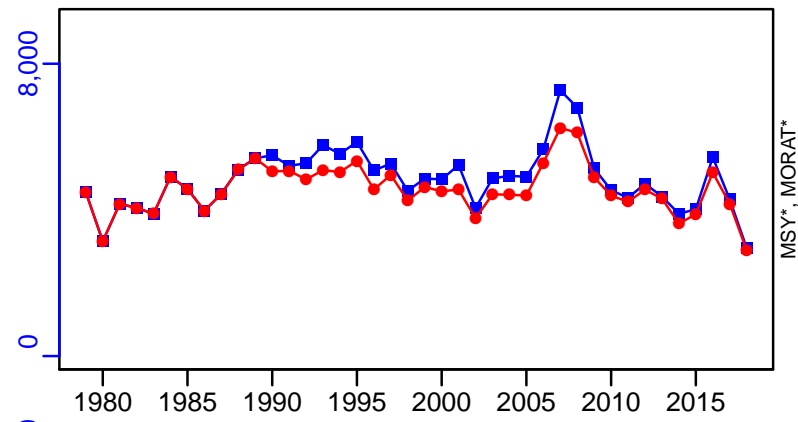


Recruits*



Norway lobster South Minch (FU 12) [NEPHFU12]

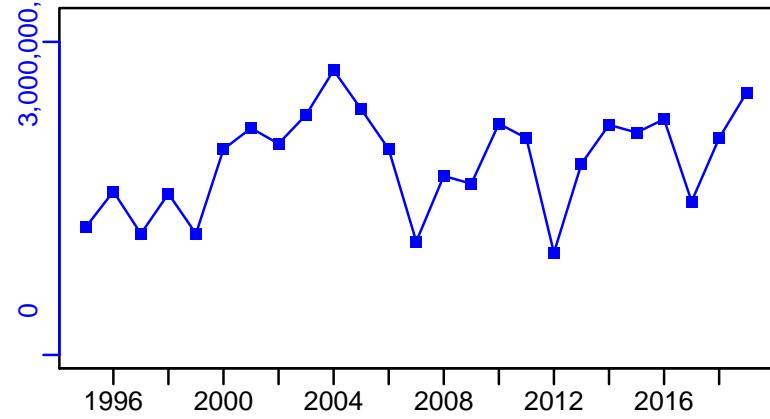
TC-MT, TL-MT, RecC* (1979-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1979-2019-ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU13-1981-2019-ICESIMP2021
Area	Firth of Clyde and Sound of Jura (FU 13)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.151
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.12
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	0.111	-	-
TC	TC-MT	2019	4209		
TL	TL-MT	2019	4141		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.166		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]

TB*



SSB*



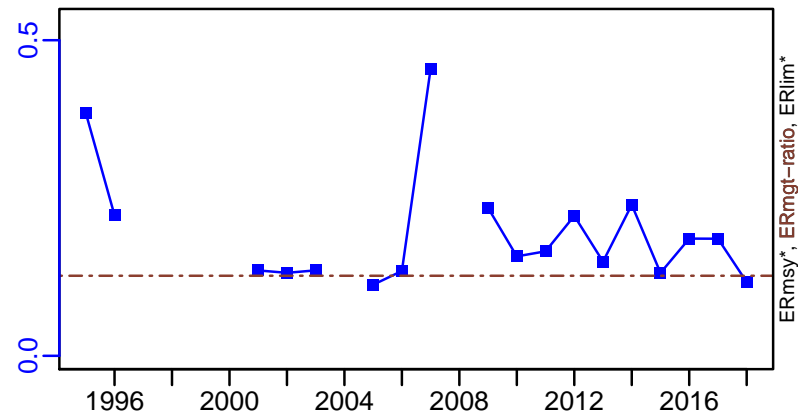
TN *



F*

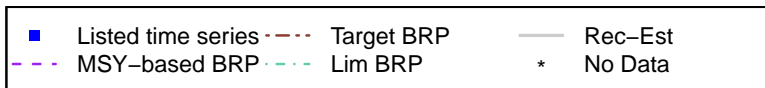
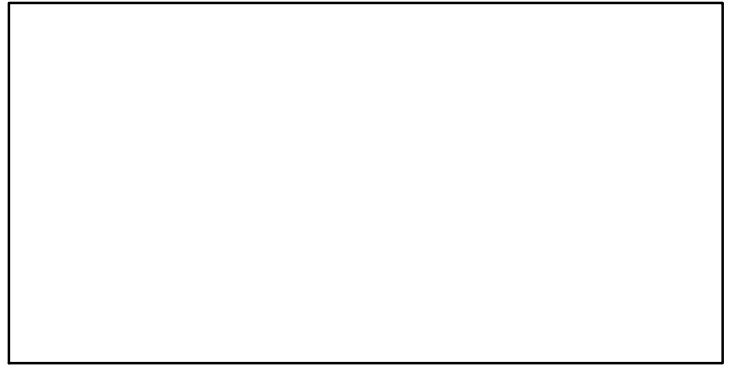


ER-ratio (1981–2019–ICESIMP2021)



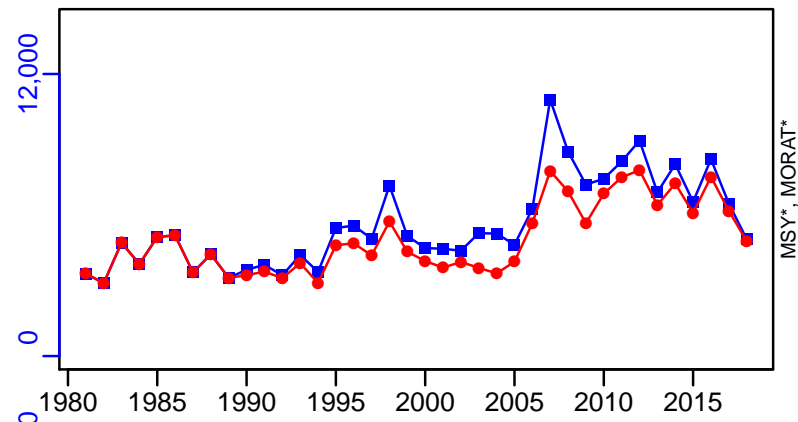
ERmsy*, ERmgt-ratio, ERlim*

Recruits*



Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]

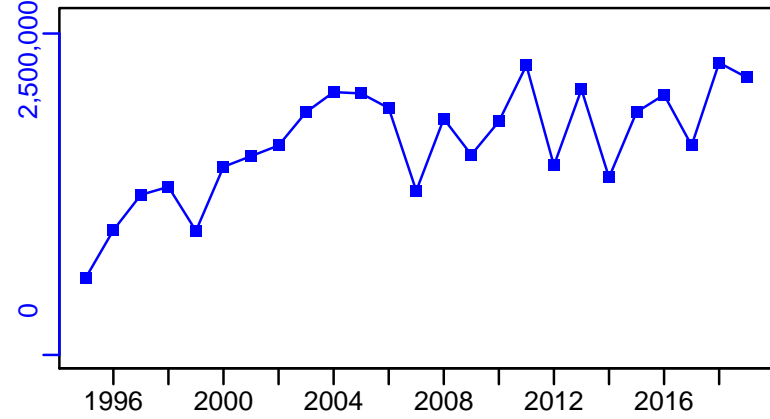
TC-MT, TL-MT, RecC* (1981-2019-ICESIMP2021)



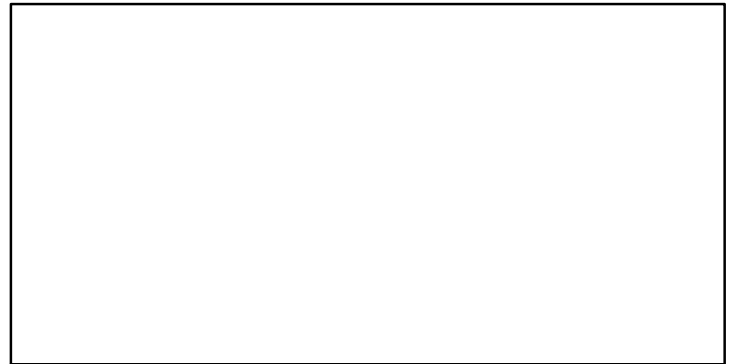
TAC*, Cpair*, Cadv*



survB-E00 (1981-2019-ICESIMP2021)



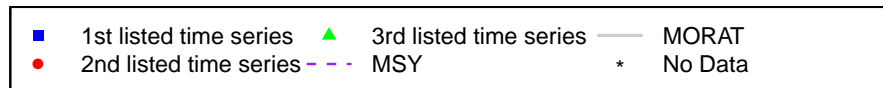
CPUE*



EFFORT*



CdivMSY*



Norway lobster Irish Sea East (FU 14) [NEPHFU14]

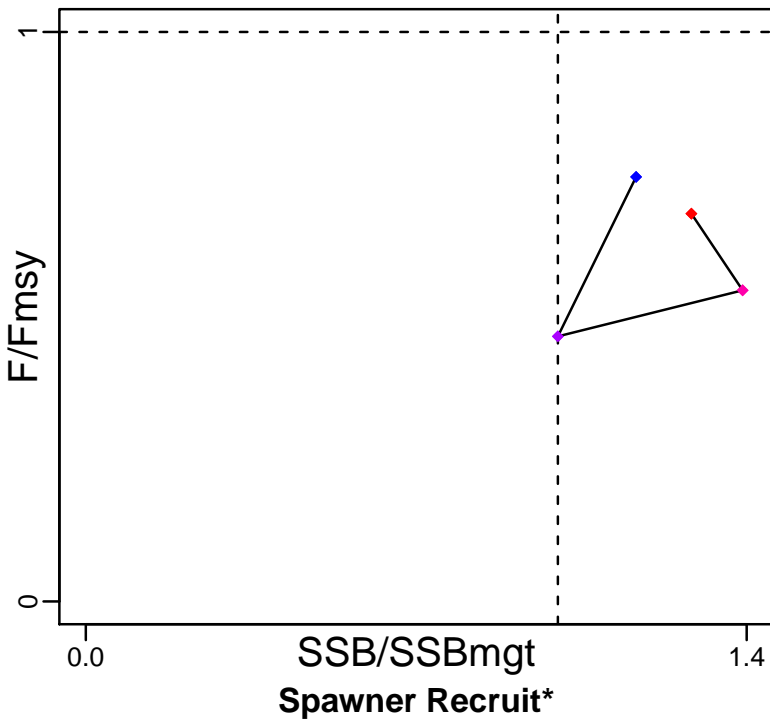
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU14-2000-2019-ICESIMP2021
Area	Irish Sea East (FU 14)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	11
ERmsy	ERmsy-ratio	2016	0.11
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	350
Fmgt	Fmgt-1/yr	2015	11
ERmgt	ERmgt-ratio	2019	0.11
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

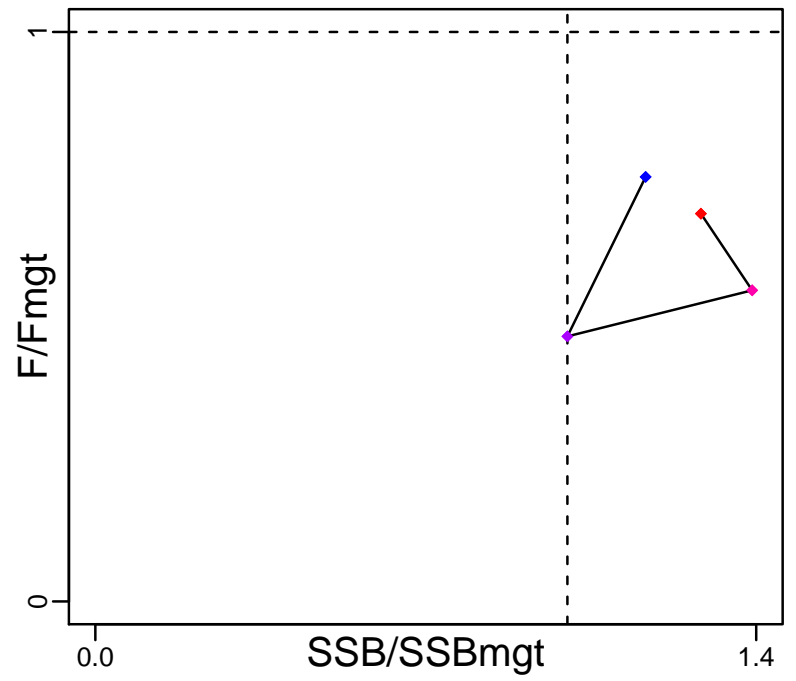
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	591	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	7.49	-	-
ER	ER-ratio	2019	0.026	-	-
TC	-	-	-		
TL	TL-MT	2019	263		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.681		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.346		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.689		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.681		
ER/ERmgt	-	-	-		

Norway lobster Irish Sea East (FU 14) [NEPHFU14]

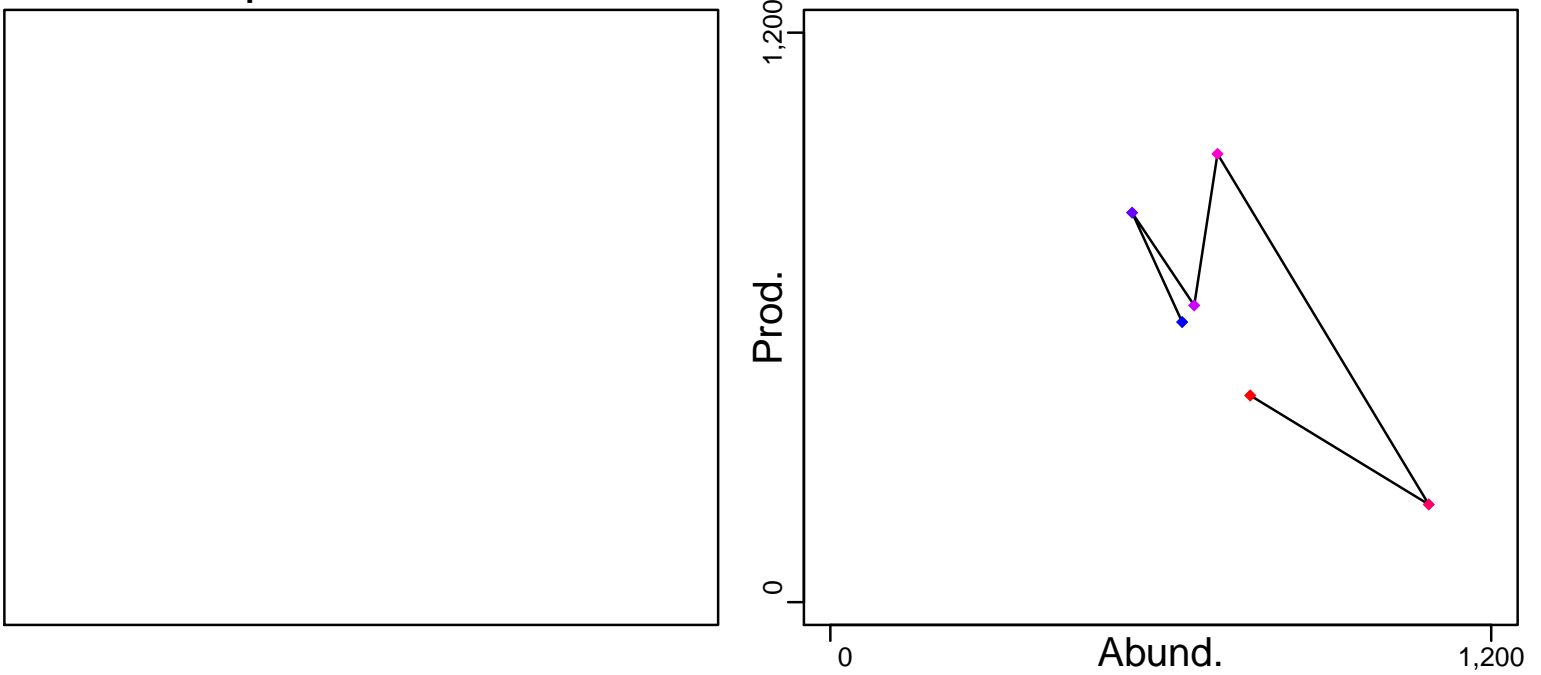
Kobe MSYpref (2000–2015–ICESIMP2016)



Kobe MGTpref (2000–2015–ICESIMP2016)



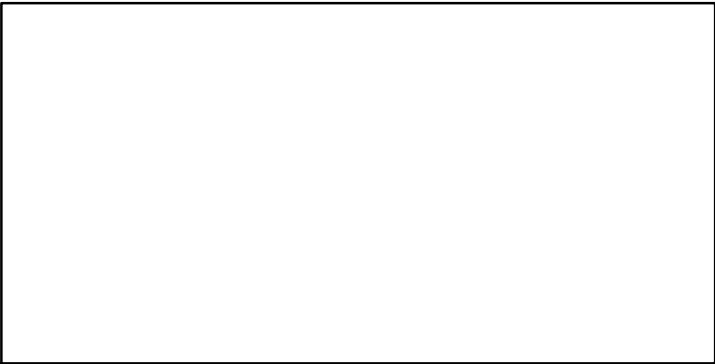
Production (2000–2015–ICESIMP2016)



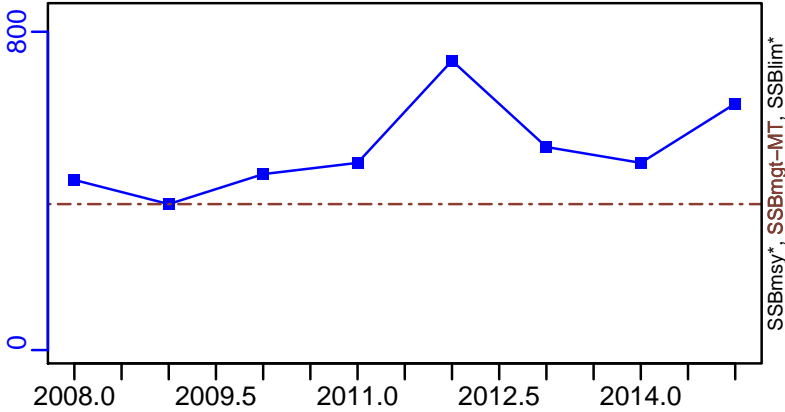
◆ Start Year ◆ End Year * No Data

Norway lobster Irish Sea East (FU 14) [NEPHFU14]

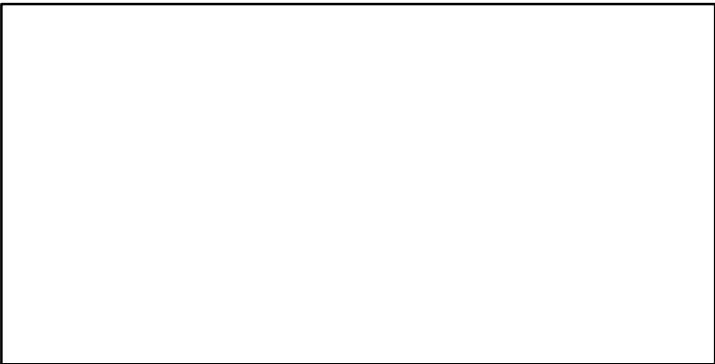
TB*



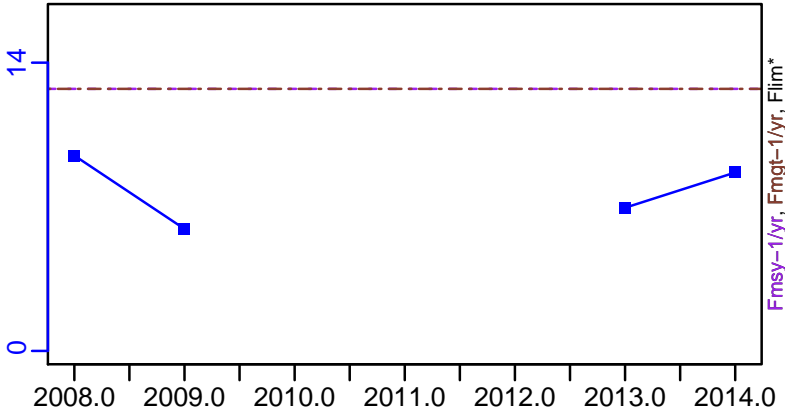
SSB-MT (2000–2015–ICESIMP2016)



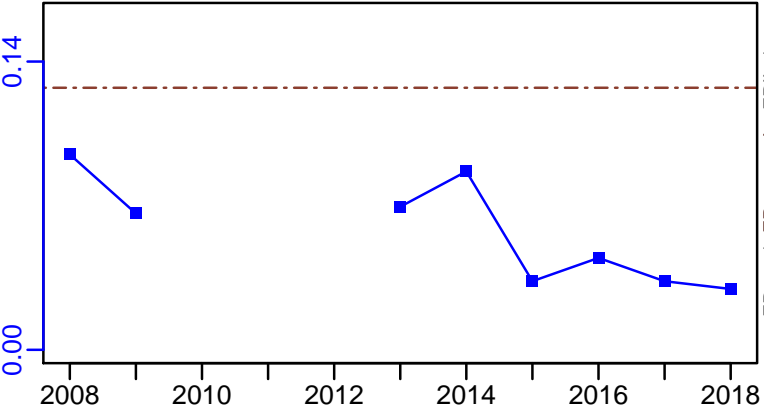
TN *



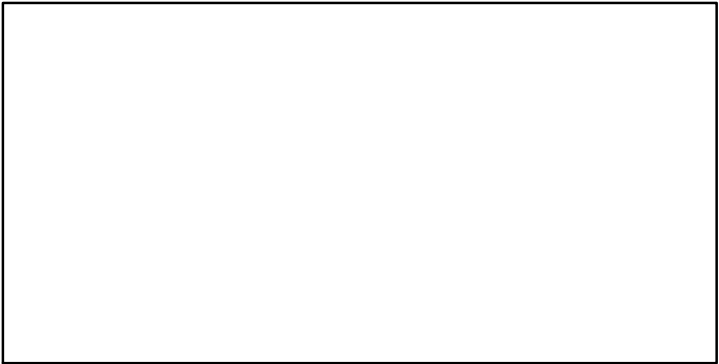
F-1/yr (2000–2015–ICESIMP2016)



ER-ratio (2000–2019–ICESIMP2021)

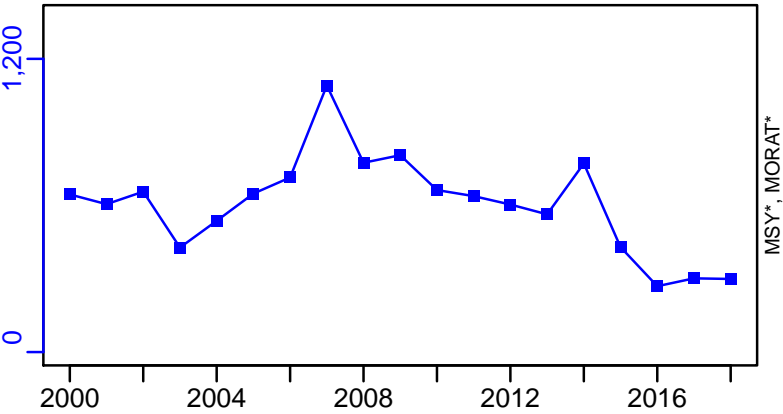


Recruits*



Norway lobster Irish Sea East (FU 14) [NEPHFU14]

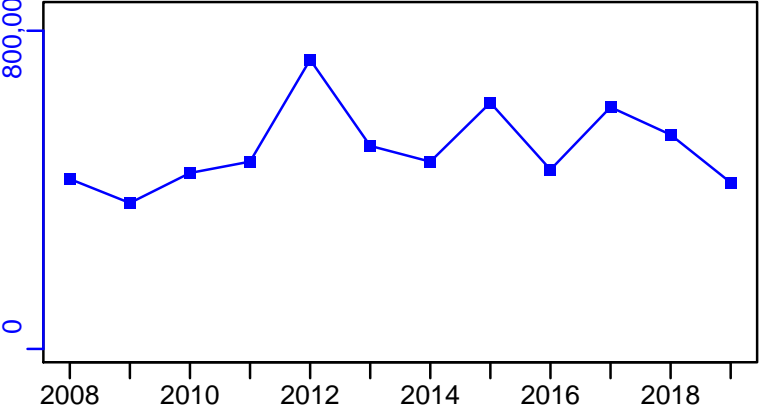
TL-MT, TC*, RecC* (2000–2019–ICESIMP2021)



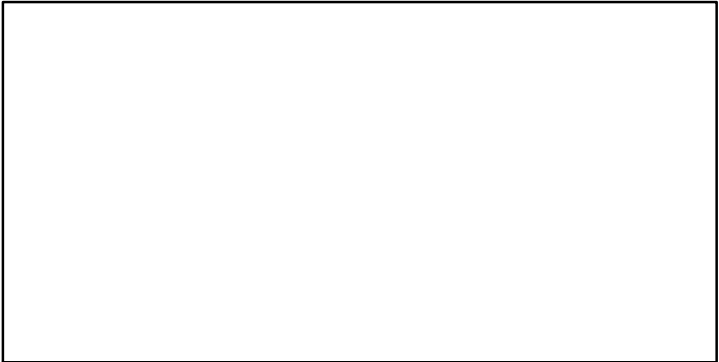
TAC*, Cpair*, Cadv*



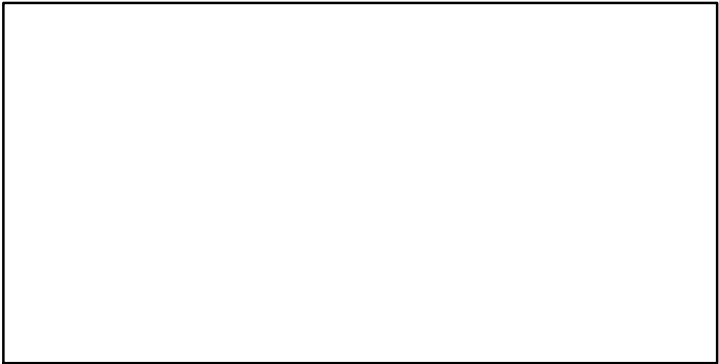
survB-E00 (2000–2019–ICESIMP2021)



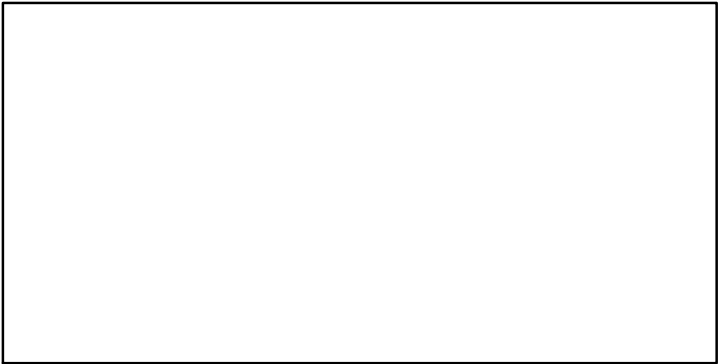
CPUE*



EFFORT*



CdivMSY*



Norway lobster Irish Sea West (FU 15) [NEPHFU15]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU15-1960-2019-ICESIMP2021
Area	Irish Sea West (FU 15)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	18.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.182
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	0.1	-	-
TC	-	-	-		
TL	TL-MT	2019	5756		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.846		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



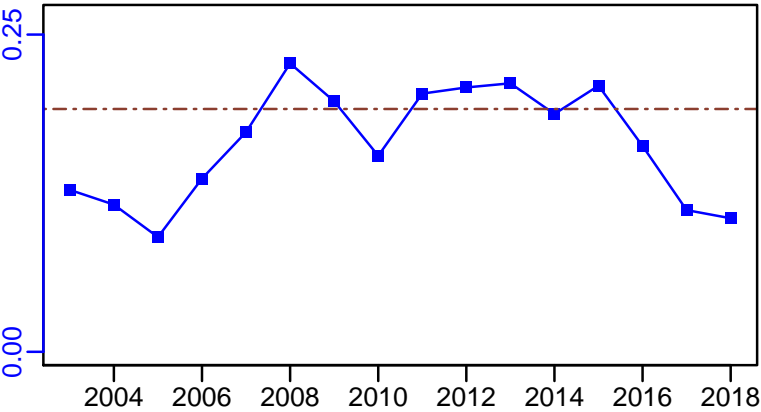
TN *



F*



ER-ratio (1960–2019–ICESIMP2021)

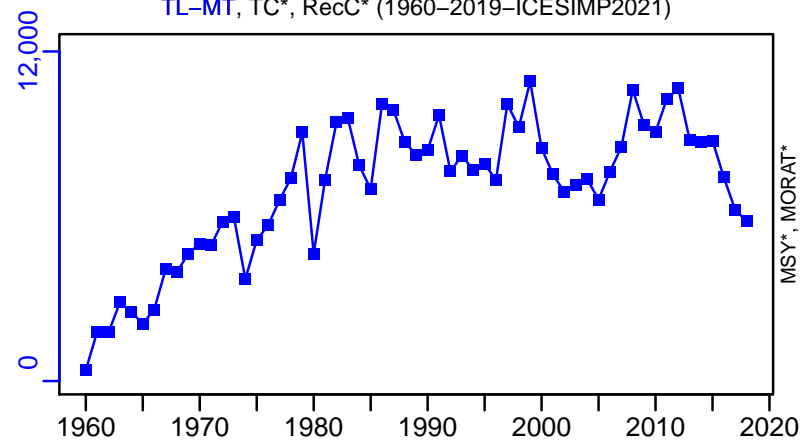


Recruits*



Norway lobster Irish Sea West (FU 15) [NEPHFU15]

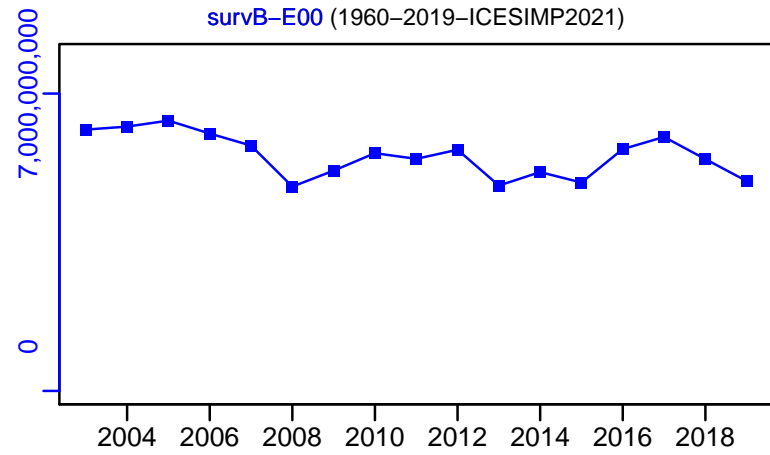
TL-MT, TC*, RecC* (1960–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1960–2019–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU16-1979-2019-ICESIMP2021
Area	Porcupine Bank (FU 16)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2019, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	6.2
ERmsy	ERmsy-ratio	2016	0.062
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	6.2
ERmgt	ERmgt-ratio	2019	0.062
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	958	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	3.3	-	-
ER	ER-ratio	2019	0.059	-	-
TC	-	-	-		
TL	TL-MT	2019	2751		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.532		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.902		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.532		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



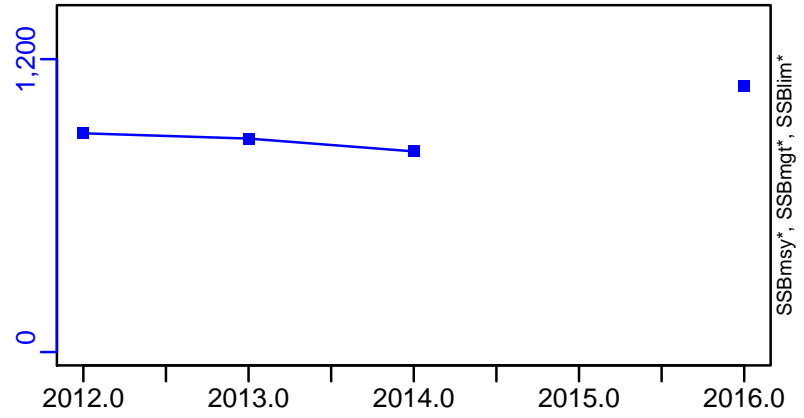
◆ Start Year	◆ End Year	* No Data
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Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

TB*



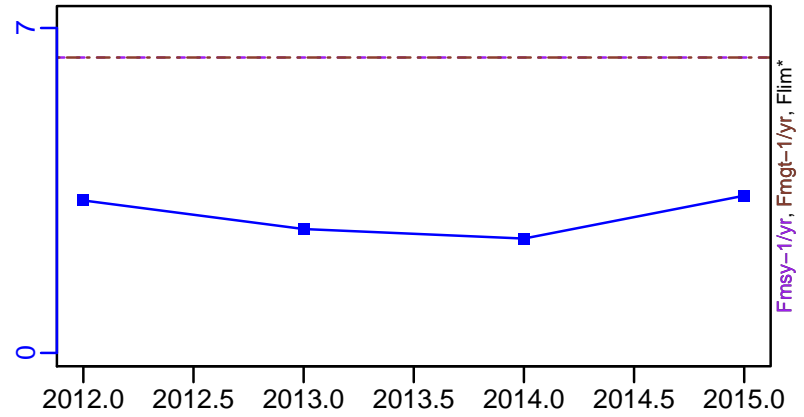
SSB-MT (1986–2016–ICESIMP2018)



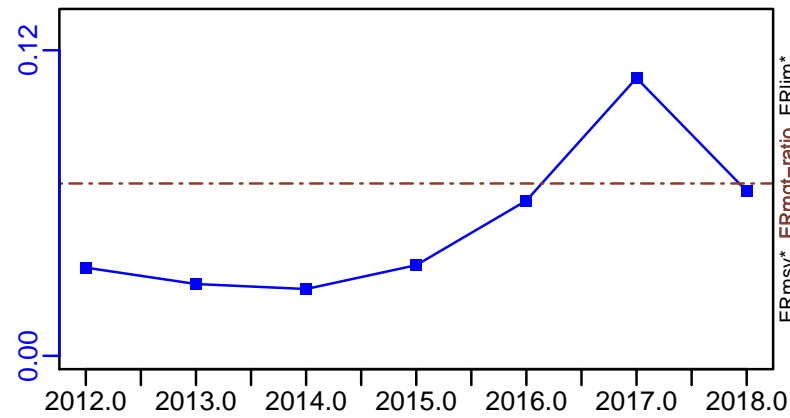
TN *



F-1/yr (1986–2016–ICESIMP2018)



ER-ratio (1979–2019–ICESIMP2021)

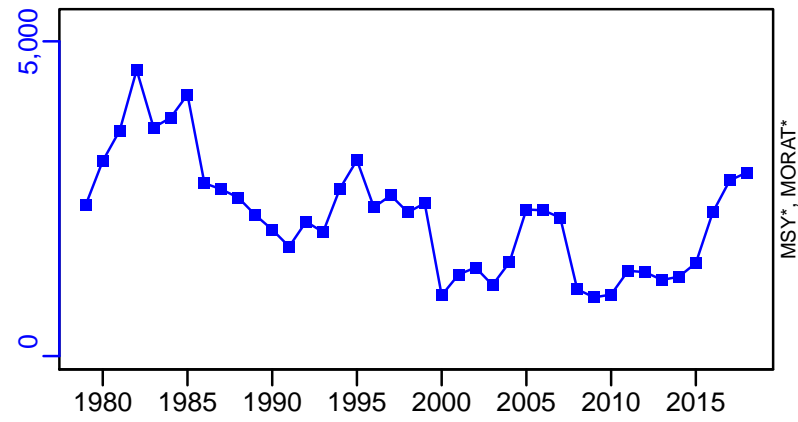


Recruits*



Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

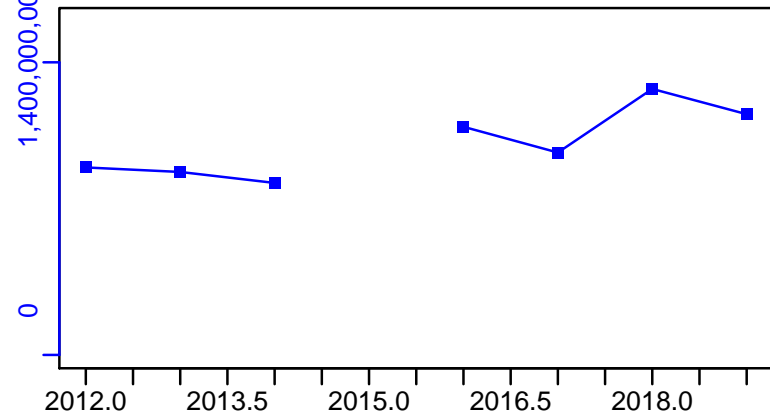
TL-MT, TC*, RecC* (1979–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1979–2019–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Norway lobster Aran Grounds (FU 17) [NEPHFU17]

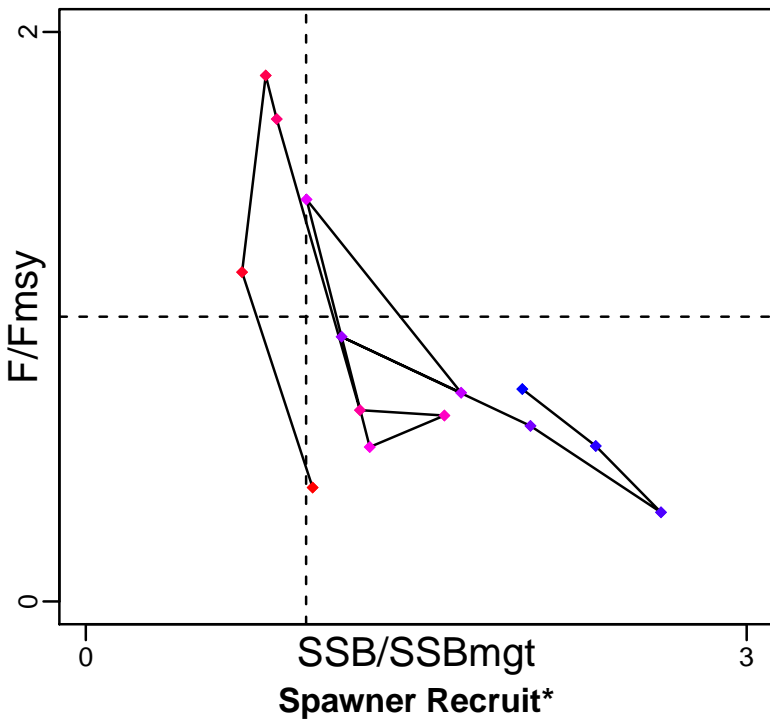
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU17-1974-2019-ICESIMP2021
Area	Aran Grounds (FU 17)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	8.5
ERmsy	ERmsy-ratio	2016	0.085
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	540
Fmgt	Fmgt-1/yr	2016	8.5
ERmgt	ERmgt-ratio	2019	0.085
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

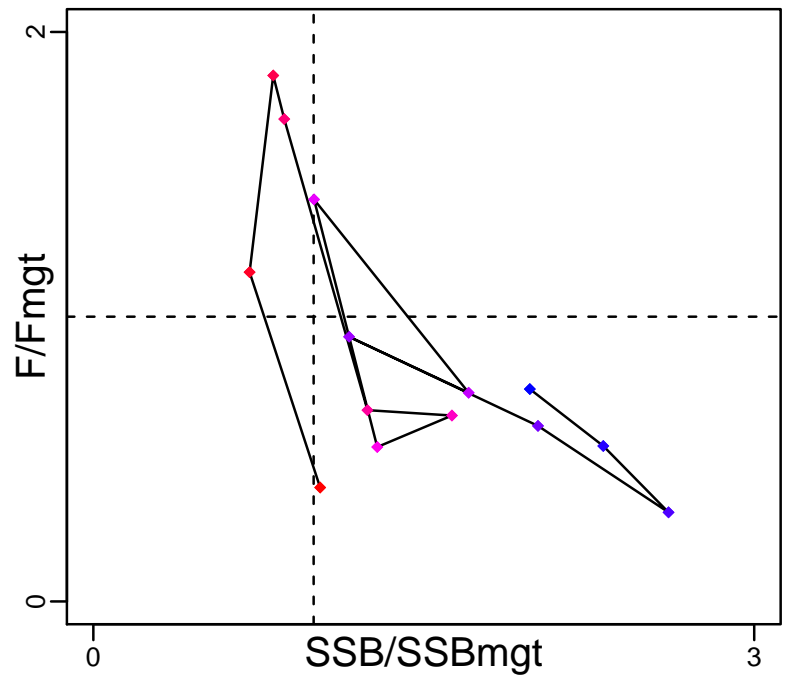
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	379	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	3.4	-	-
ER	ER-ratio	2019	0.054	-	-
TC	-	-	-		
TL	TL-MT	2019	536		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.4		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.086		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.702		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.4		
ER/ERmgt	-	-	-		

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

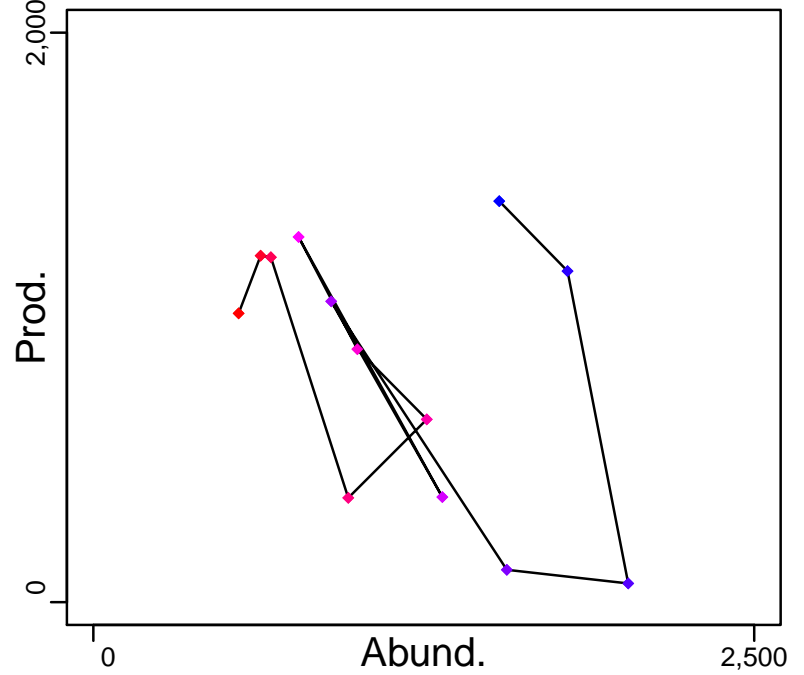
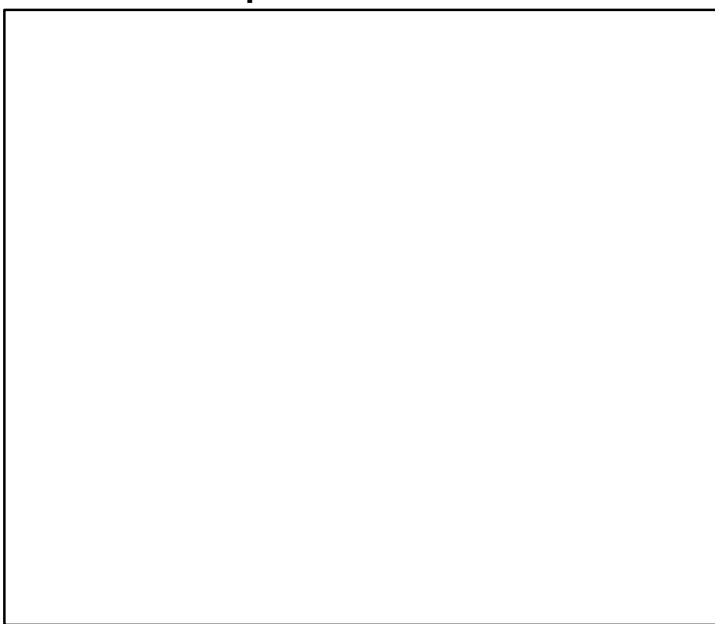
Kobe MSYpref (1974–2016–ICESIMP2018)



Kobe MGTpref (1974–2016–ICESIMP2018)



Production (1974–2016–ICESIMP2018)



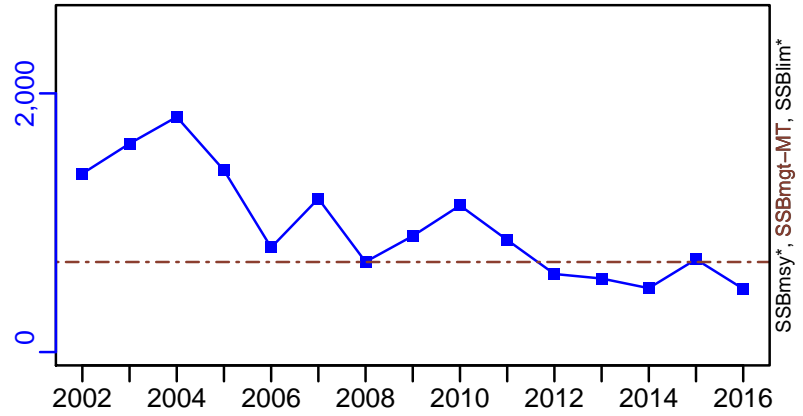
◆ Start Year ◆ End Year * No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

TB*



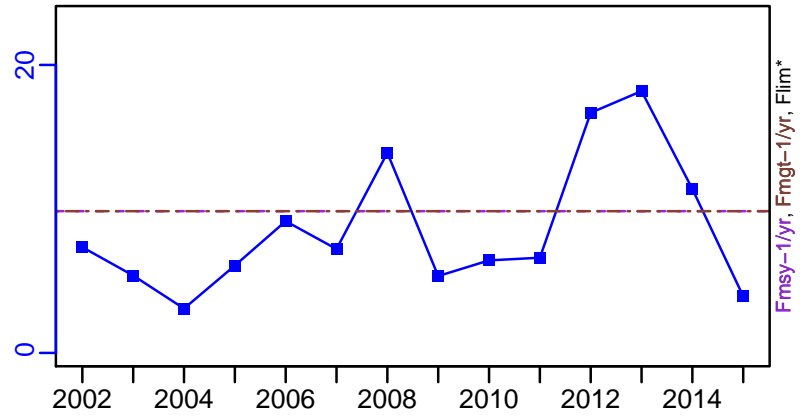
SSB-MT (1974–2016–ICESIMP2018)



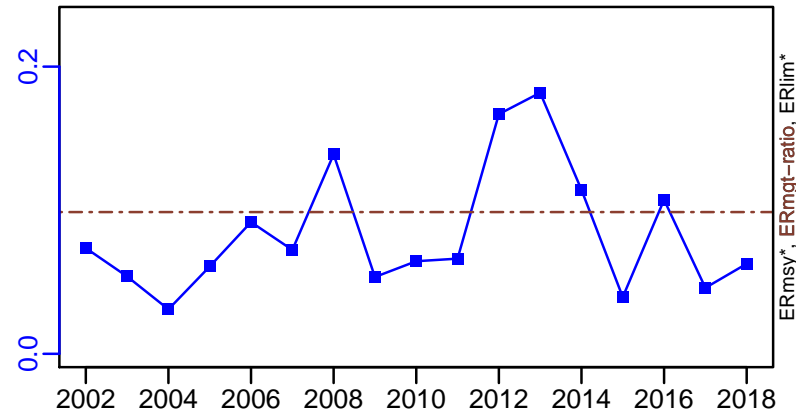
TN *



F-1/yr (1974–2016–ICESIMP2018)



ER-ratio (1974–2019–ICESIMP2021)

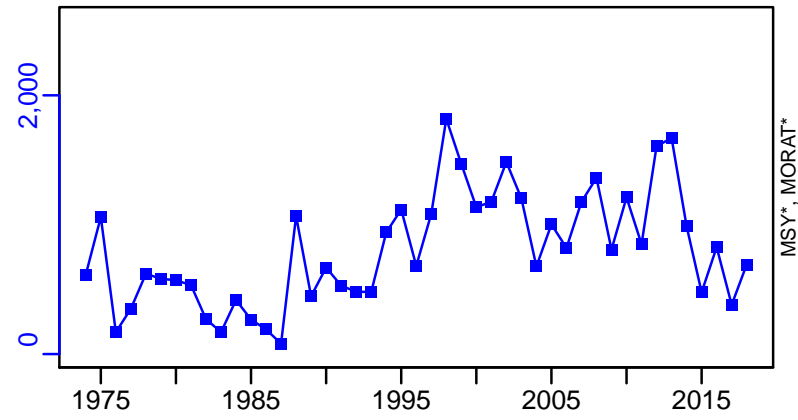


Recruits*



Norway lobster Aran Grounds (FU 17) [NEPHFU17]

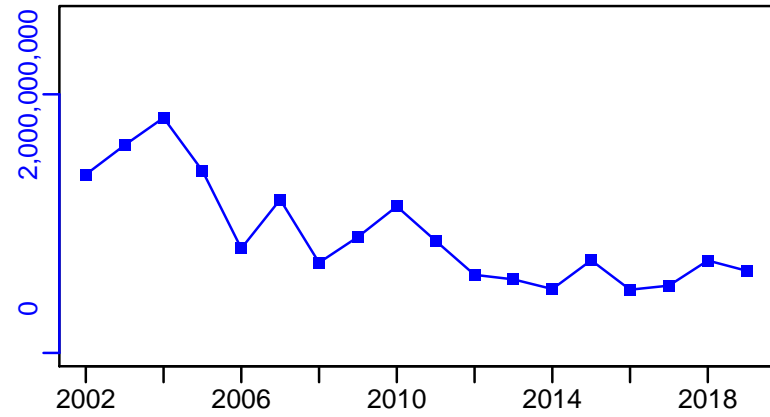
TL-MT, TC*, RecC* (1974–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1974–2019–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

Norway lobster South East and West of IRL (FU 19) [NEPHFU19]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU19-1989-2019-ICESIMP2021
Area	South East and West of IRL (FU 19)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2019, 2015, 2016

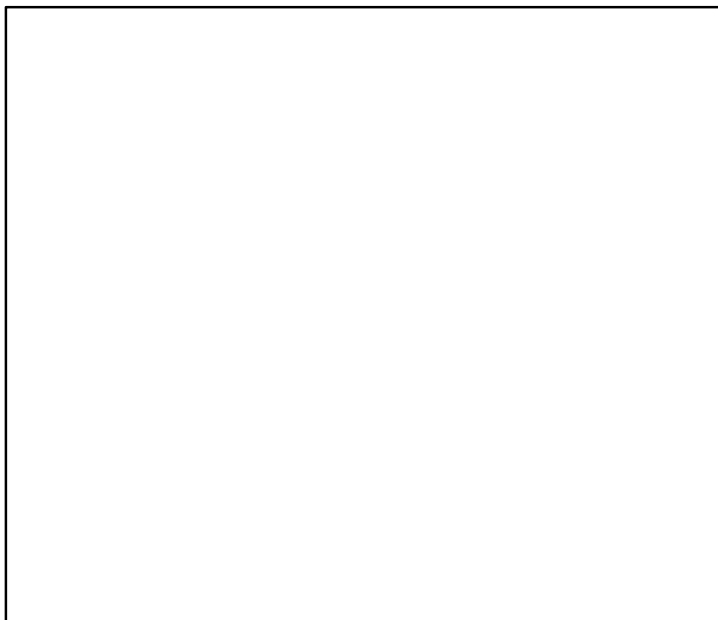
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.093
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.093
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.062	-	-
TC	-	-	-		
TL	TL-MT	2019	219		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.808		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

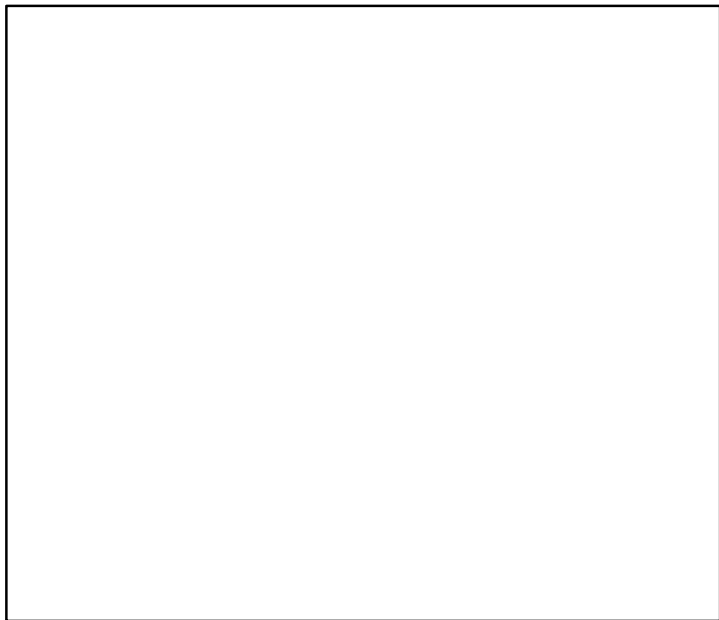
Kobe MSY*



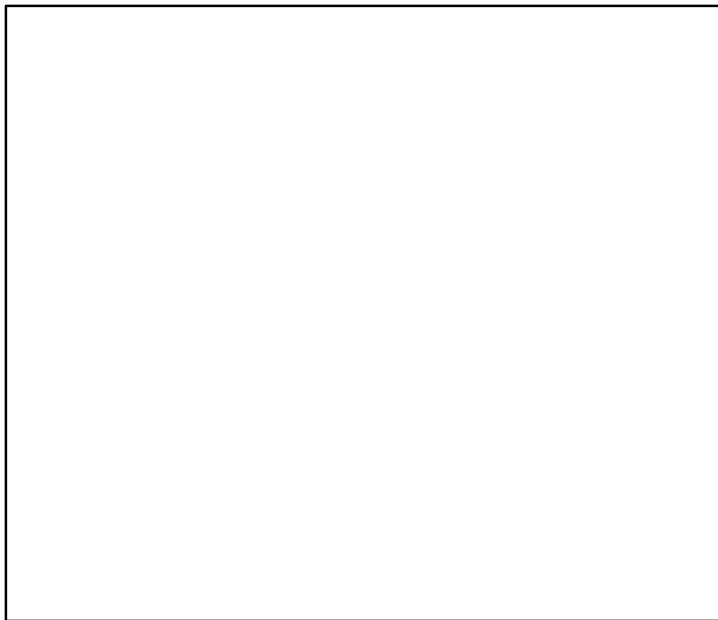
Kobe MGT*



Spawner Recruit*



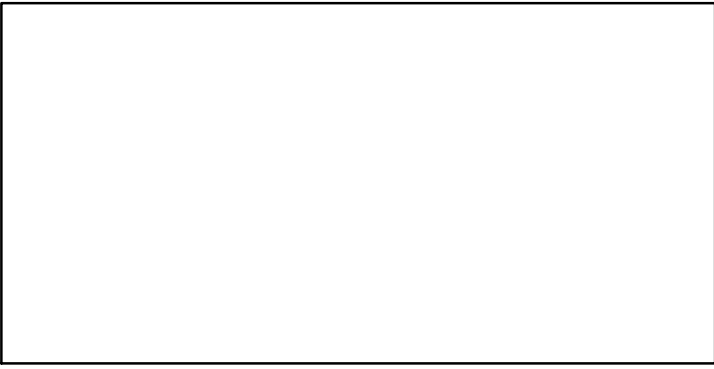
Production*



◆ Start Year ◆ End Year * No Data

Norway lobster South East and West of IRL (FU 19) [NEPHFU19]

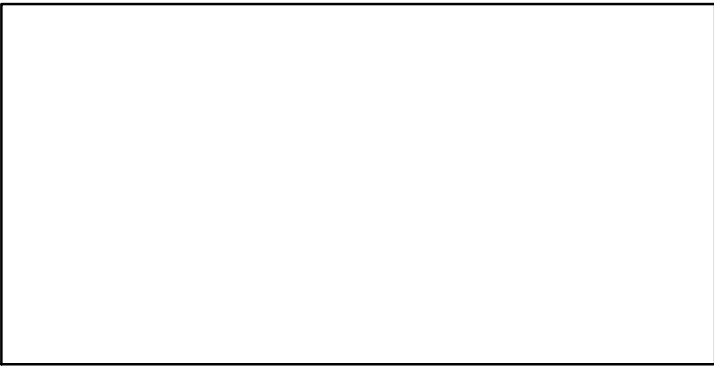
TB*



SSB*



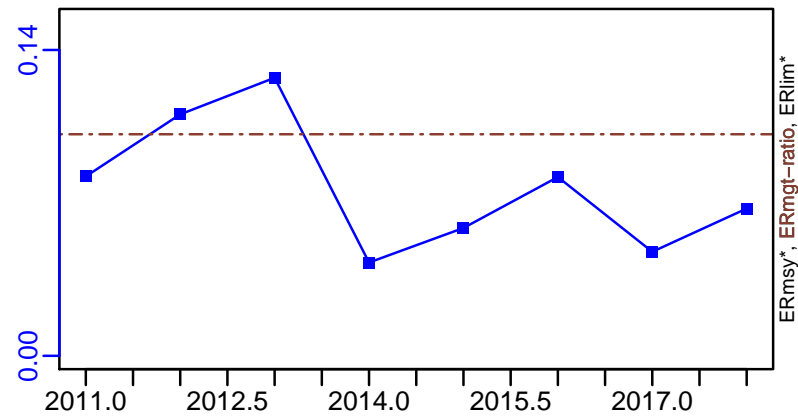
TN *



F*



ER-ratio (1989–2019–ICESIMP2021)

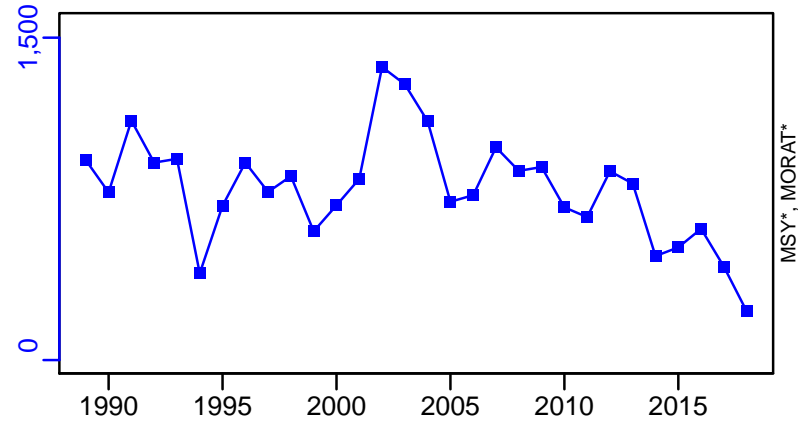


Recruits*



Norway lobster South East and West of IRL (FU 19) [NEPHFU19]

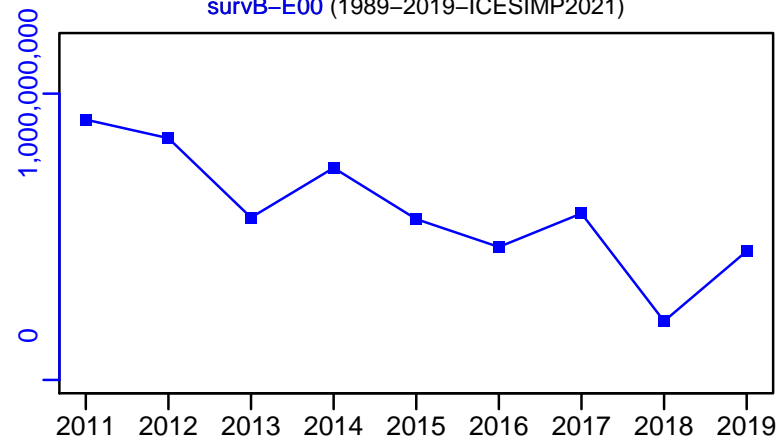
TL-MT, TC*, RecC* (1989–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1989–2019–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

Norway lobster Labadie, Jones and Cockburn (FU 20-21) [NEPHFU2021]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU2021-1995-2019-ICESIMP2021
Area	Labadie, Jones and Cockburn (FU 20-21)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.06
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	0.03	-	-
TC	-	-	-		
TL	TL-MT	2019	1803		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.783		
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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Norway lobster Labadie, Jones and Cockburn (FU 20–21) [NEPHFU2021]

TB*



SSB*



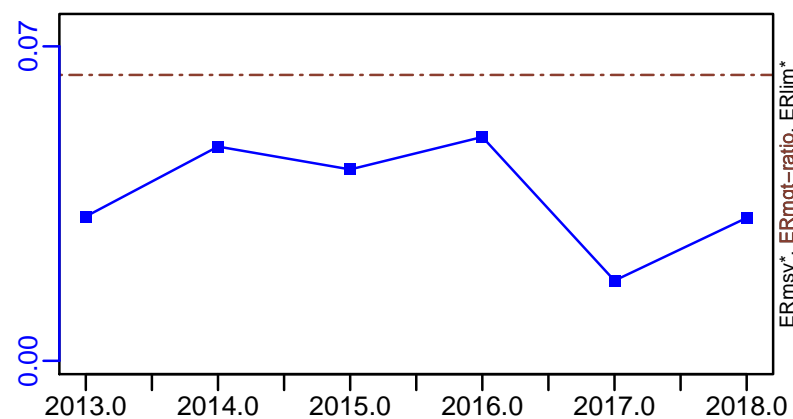
TN *



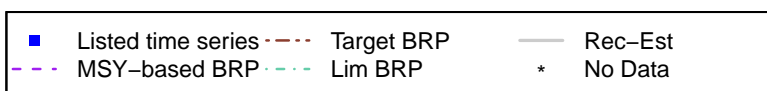
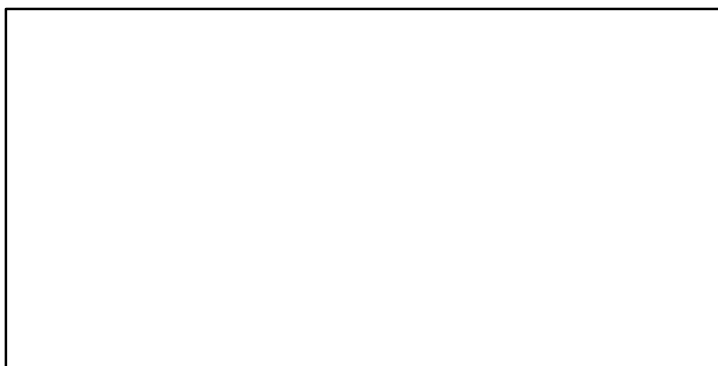
F*



ER-ratio (1995–2019–ICESIMP2021)

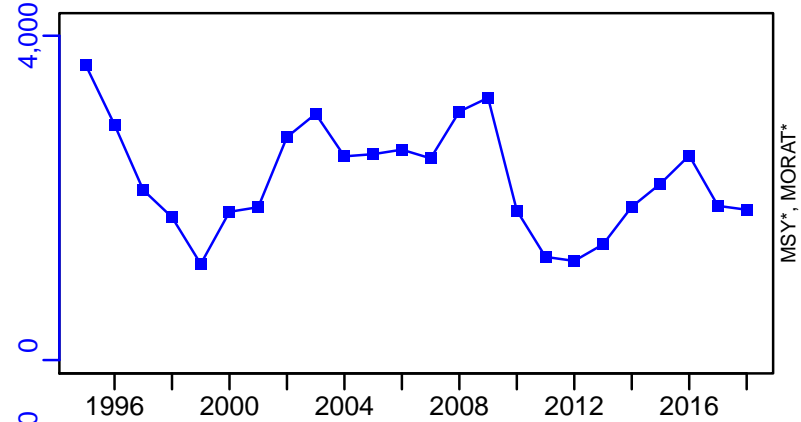


Recruits*

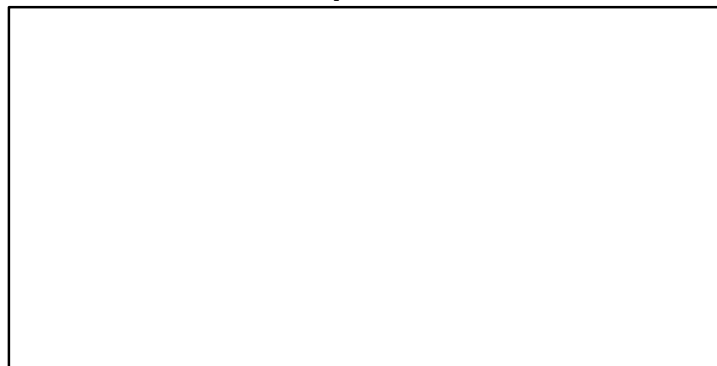


Norway lobster Labadie, Jones and Cockburn (FU 20–21) [NEPHFU2021]

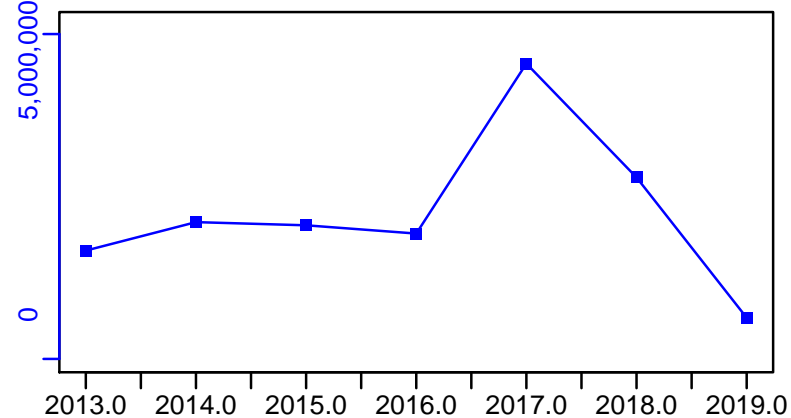
TL–MT, TC*, RecC* (1995–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB–E00 (1995–2019–ICESIMP2021)



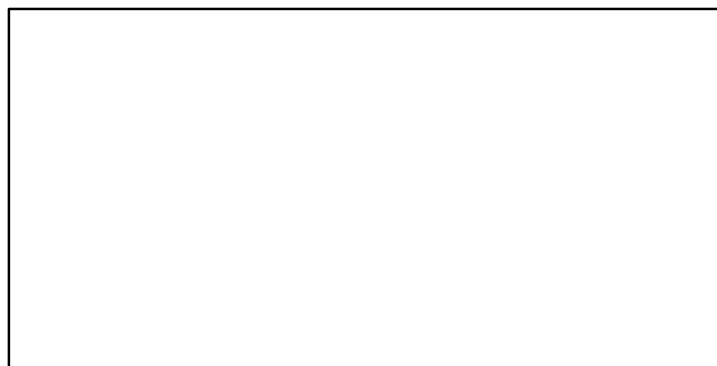
CPUE*



EFFORT*



CdivMSY*



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

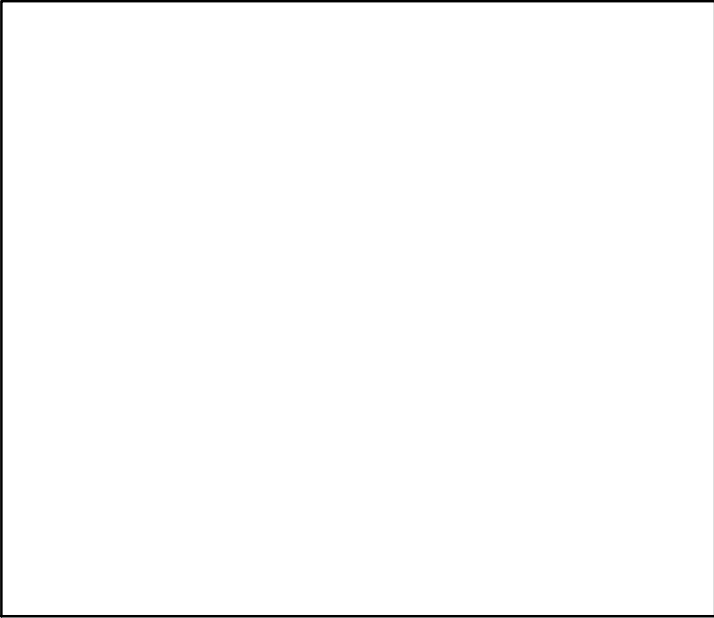
Norway lobster Smalls (FU 22) [NEPHFU22]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU22-1999-2019-ICESIMP2021
Area	Smalls (FU 22)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2019

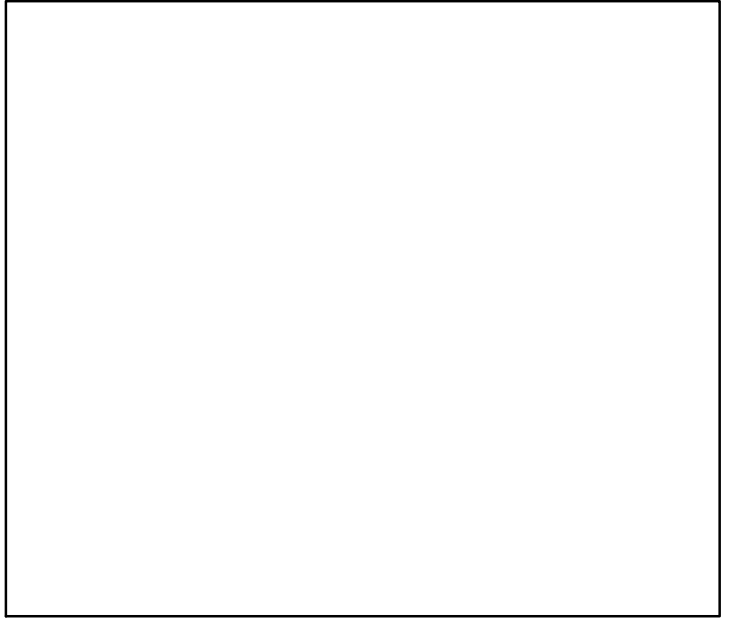
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.128
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.128
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.138	-	-
TC	-	-	-		
TL	TL-MT	2019	1974		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.781		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

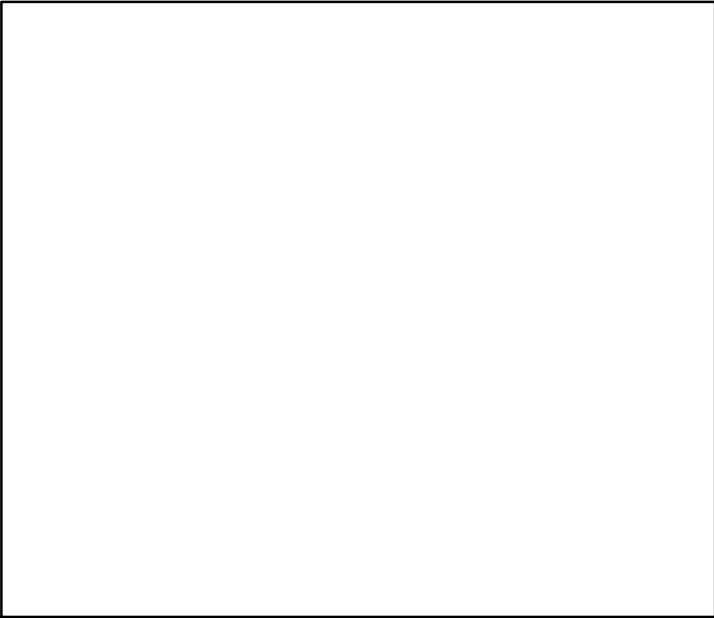
Kobe MSY*



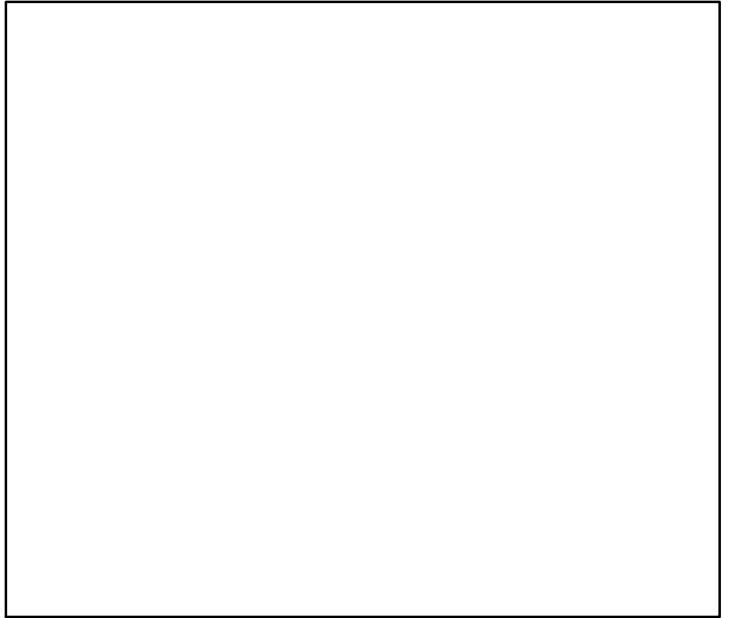
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Smalls (FU 22) [NEPHFU22]

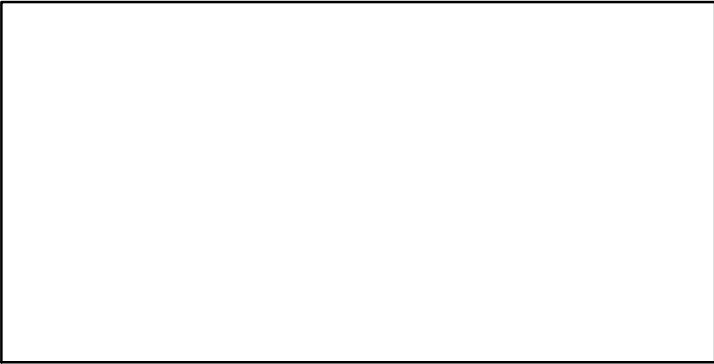
TB*



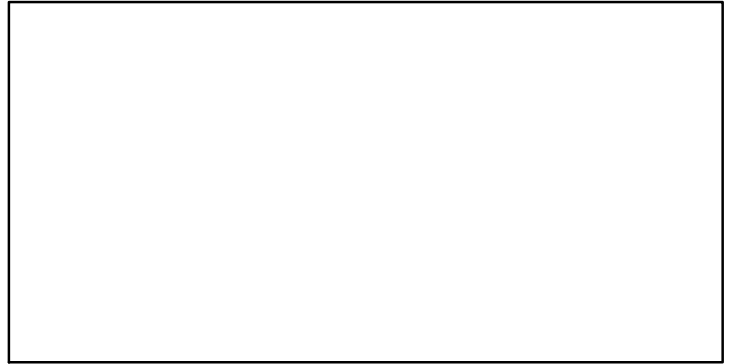
SSB*



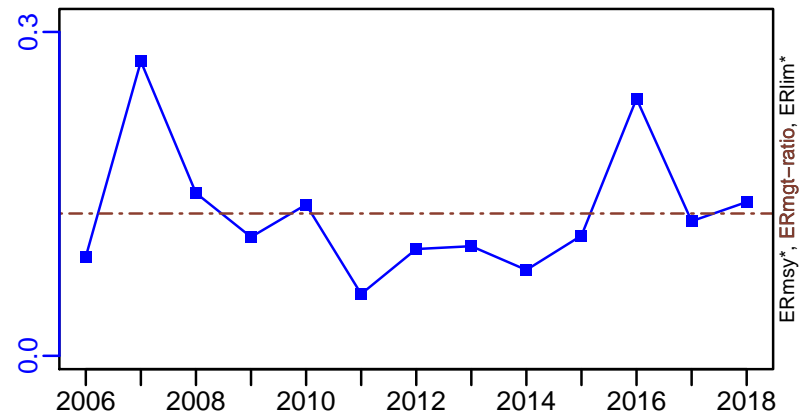
TN *



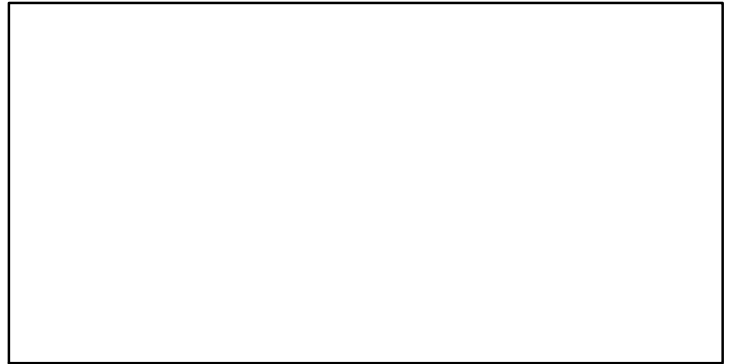
F*



ER-ratio (1999–2019–ICESIMP2021)

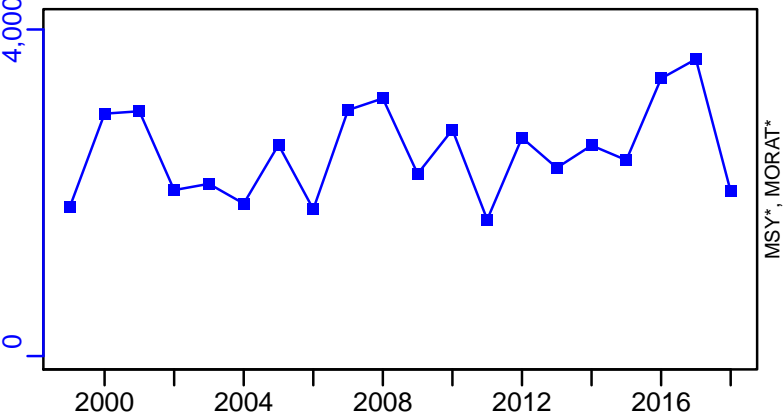


Recruits*



Norway lobster Smalls (FU 22) [NEPHFU22]

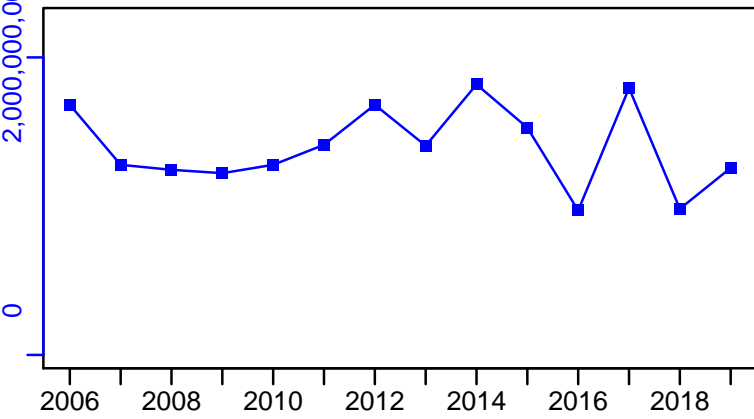
TL-MT, TC*, RecC* (1999–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1999–2019–ICESIMP2021)



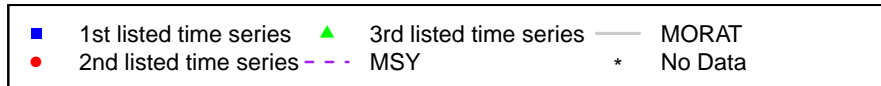
CPUE*



EFFORT*



CdivMSY*



Norway lobster North Galicia (FU 25) [NEPHFU25]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU25-1975-2018-ICESIMP2021
Area	North Galicia (FU 25)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 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	2		
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*

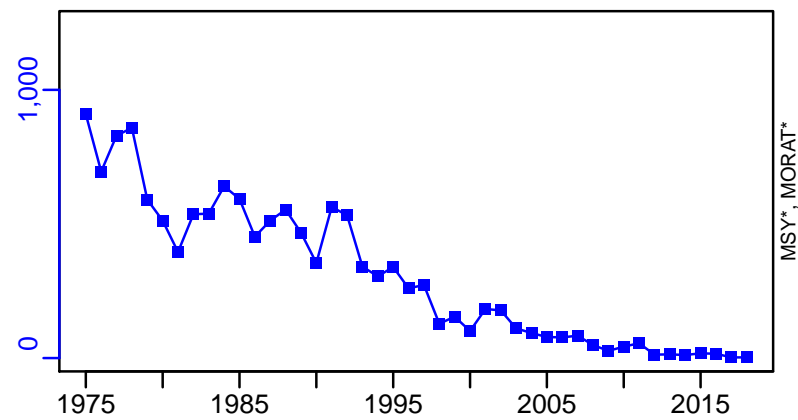


Recruits*



Norway lobster North Galicia (FU 25) [NEPHFU25]

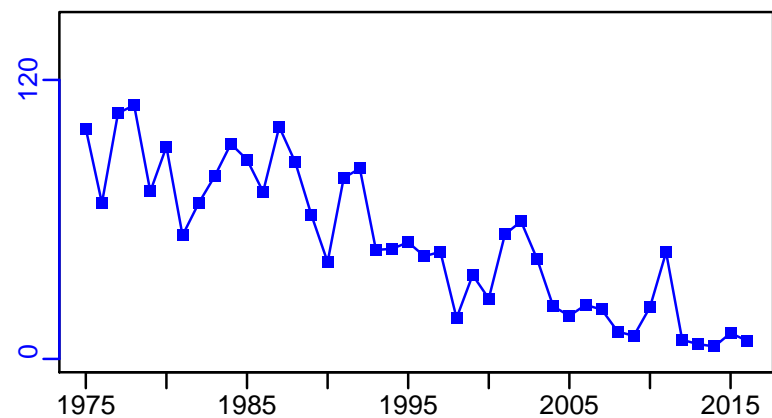
TL-MT, TC*, RecC* (1975–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



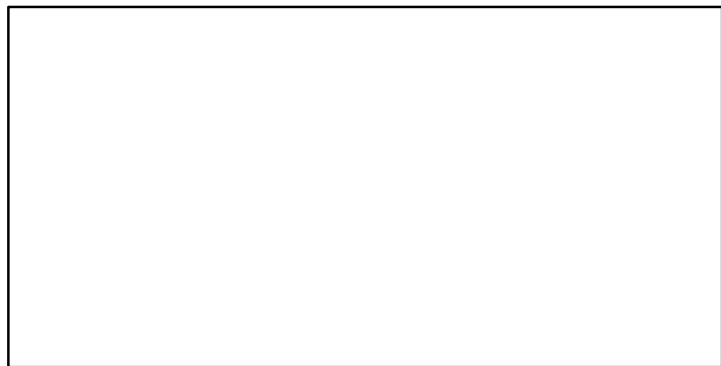
survB-index (1975–2018–ICESIMP2021)



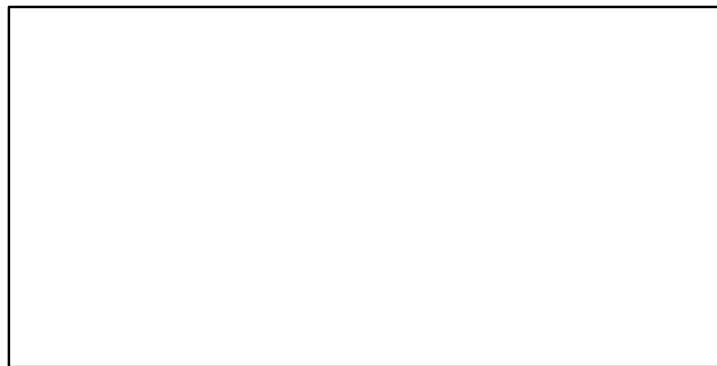
CPUE*



EFFORT*



CdivMSY*



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

Norway lobster West Galicia and North Portugal (FU 26-27) [NEPHFU2627]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2627-1975-2018-ICESIMP2021
Area	West Galicia and North Portugal (FU 26-27)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 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	F-1/yr	2018	0.051	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	2.01		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

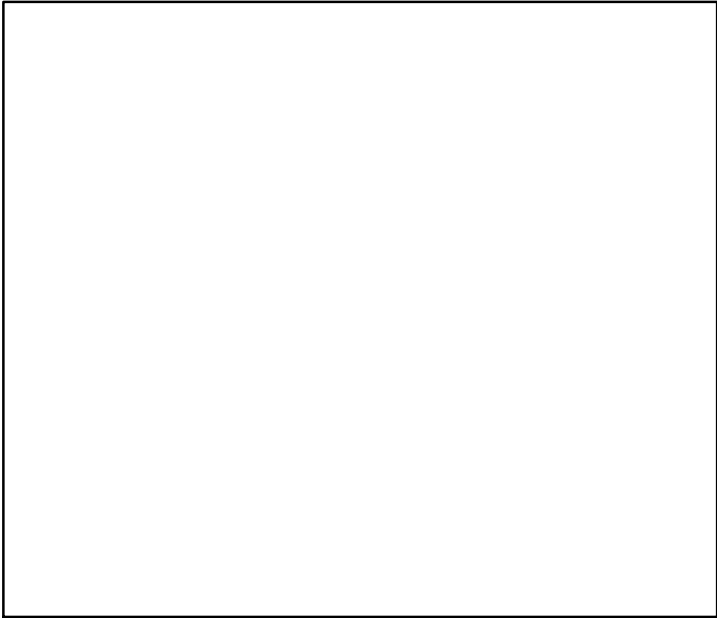
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



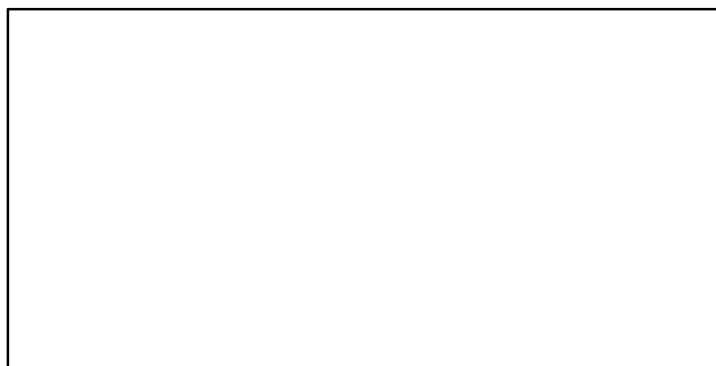
◆ Start Year ◆ End Year * No Data

Norway lobster West Galicia and North Portugal (FU 26–27) [NEPHFU2627]

TB*



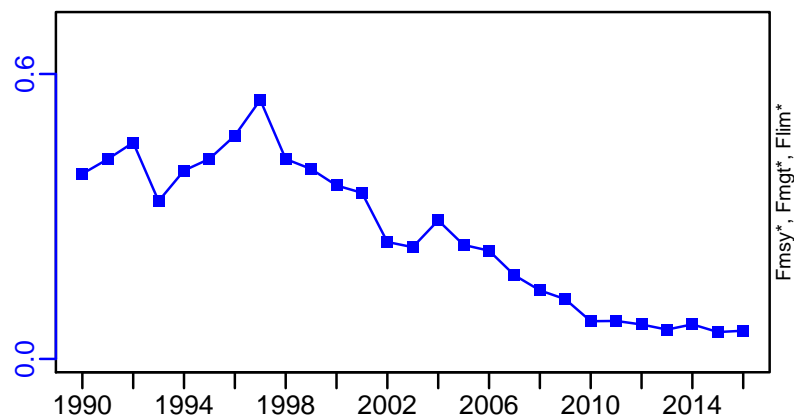
SSB*



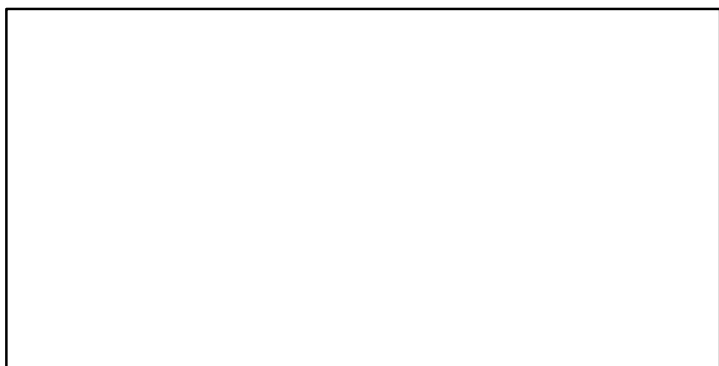
TN *



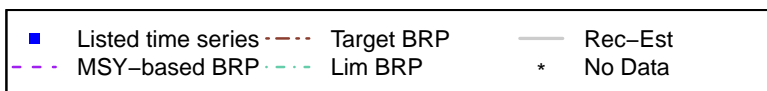
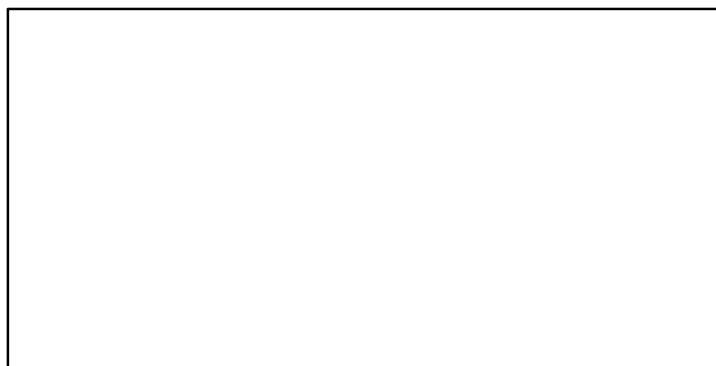
F-1/yr (1975–2018–ICESIMP2021)



ER*

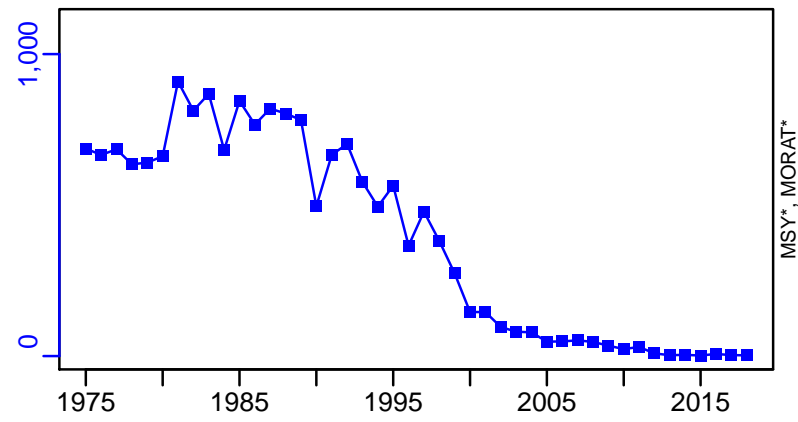


Recruits*



Norway lobster West Galicia and North Portugal (FU 26–27) [NEPHFU2627]

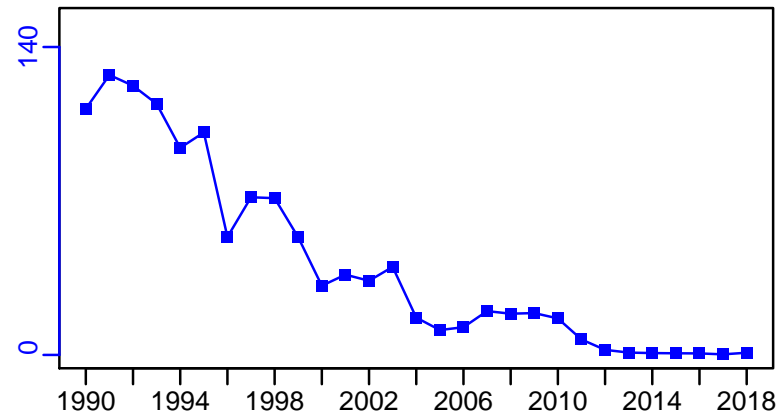
TL–MT, TC*, RecC* (1975–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB–index (1975–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*

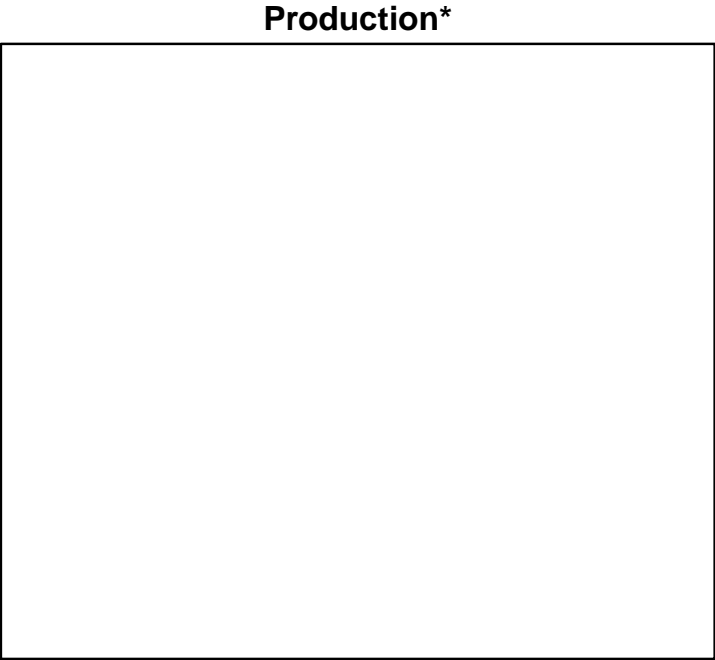
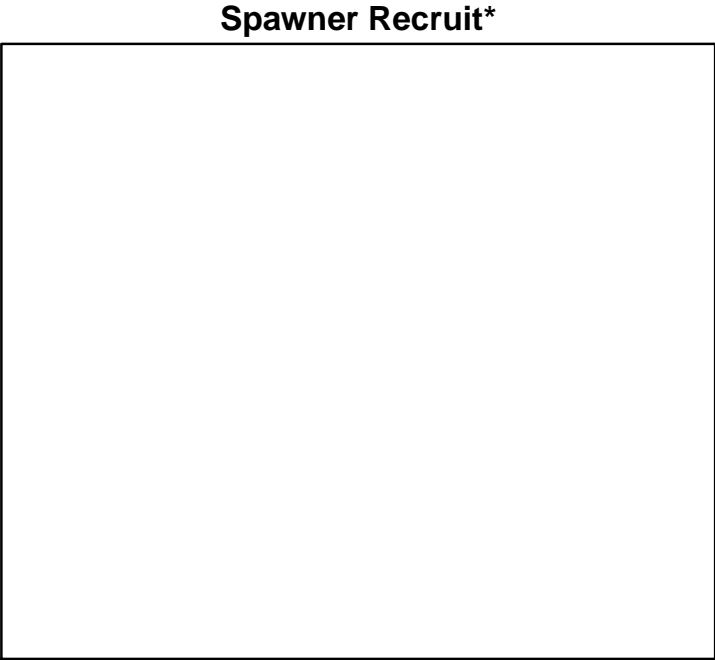
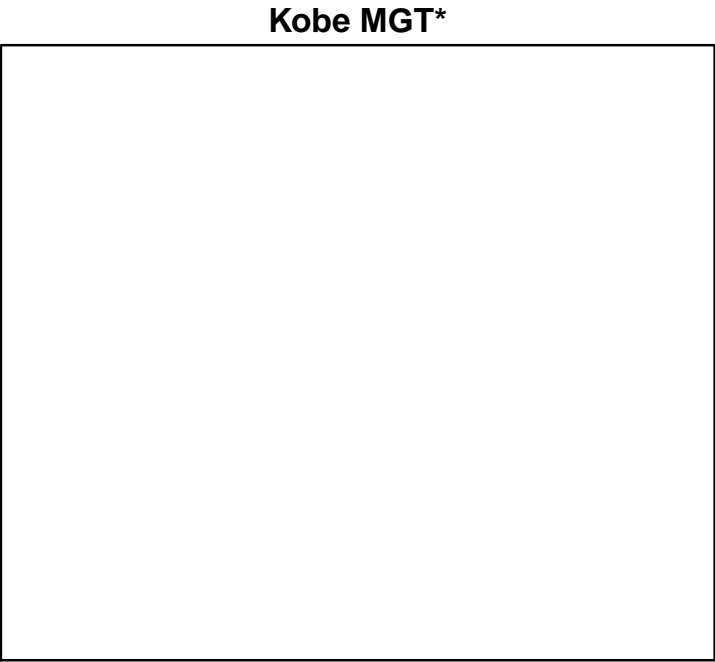
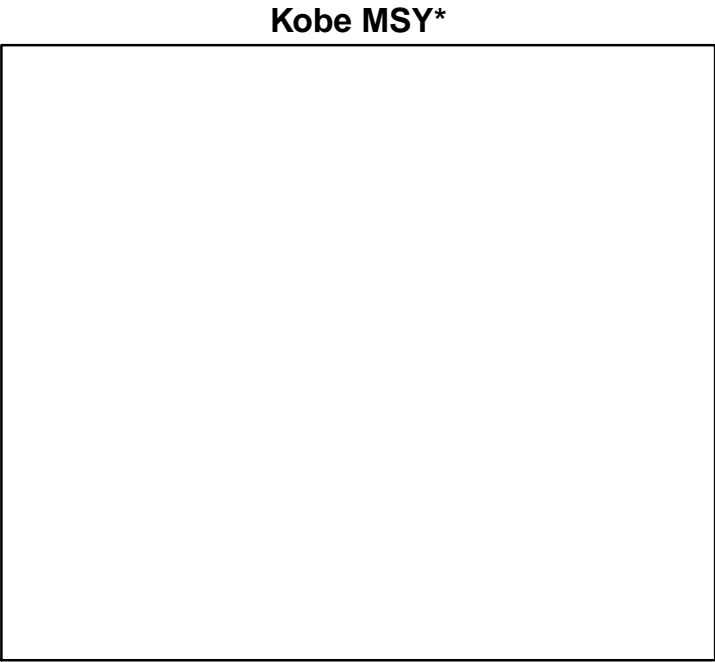


Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2829-1984-2018-ICESIMP2021
Area	South-West and South Portugal (FU 28-29)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

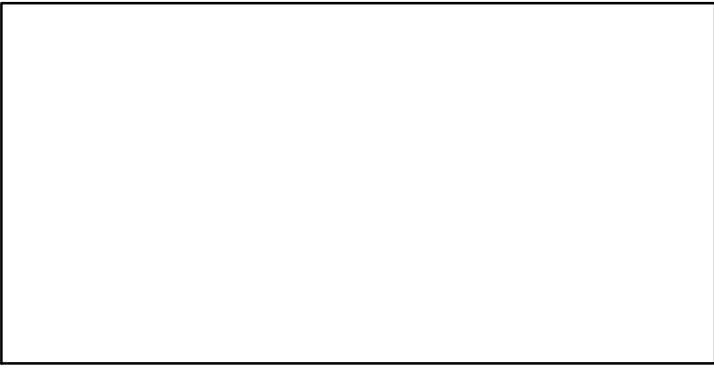
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2018	0.461	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	299		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.449		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



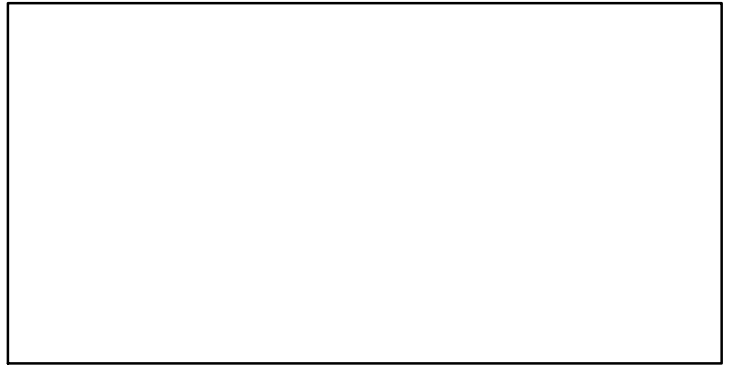
◆ Start Year ◆ End Year * No Data

Norway lobster South-West and South Portugal (FU 28–29) [NEPHFU2829]

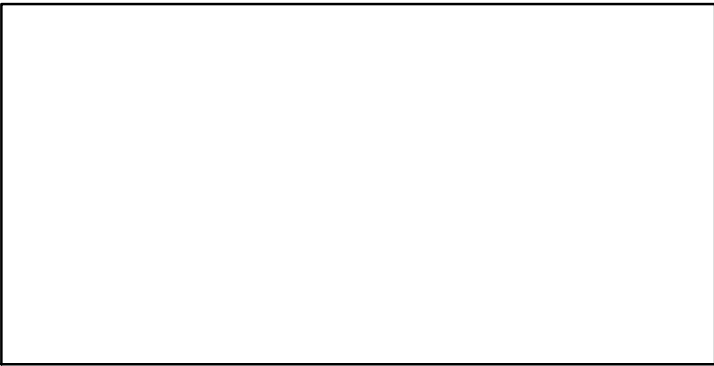
TB*



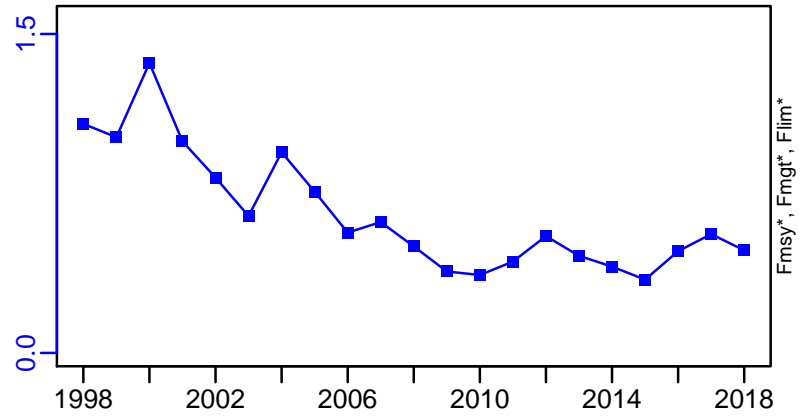
SSB*



TN *



F-1/yr (1984–2018–ICESIMP2021)



ER*



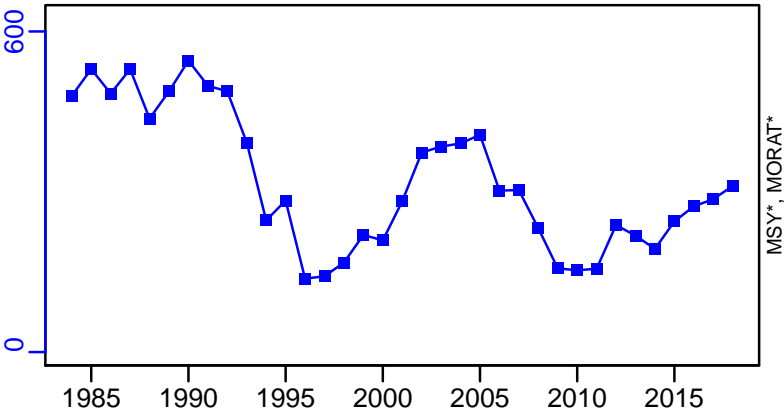
Recruits*



Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]

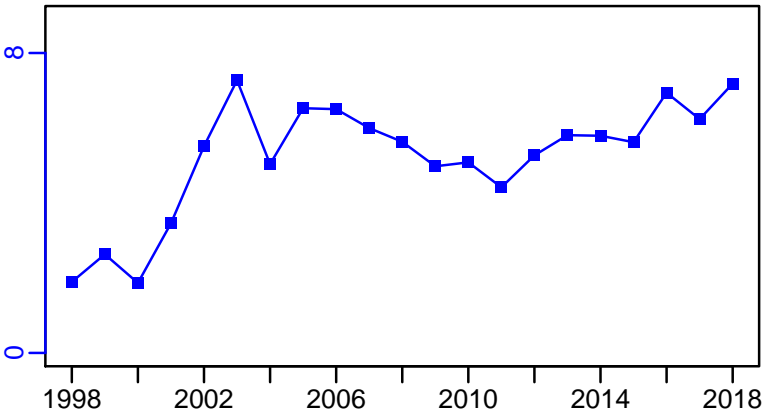
TL-MT, TC*, RecC* (1984-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



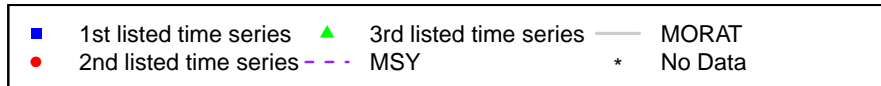
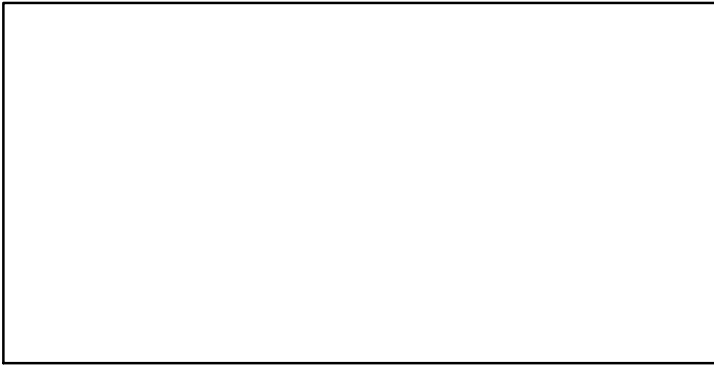
survB-index (1984-2018-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU30-1994-2019-ICESIMP2021
Area	Gulf of Cadiz (FU 30)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2017	370	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.01	-	-
TC	TC-MT	2019	76		
TL	TL-MT	2017	124		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



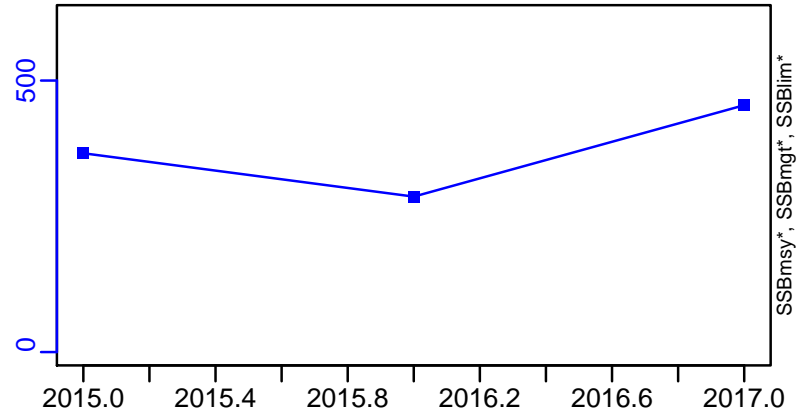
◆ Start Year ◆ End Year * No Data

Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

TB*



SSB-E00 (1994–2017–ICESIMP2018)



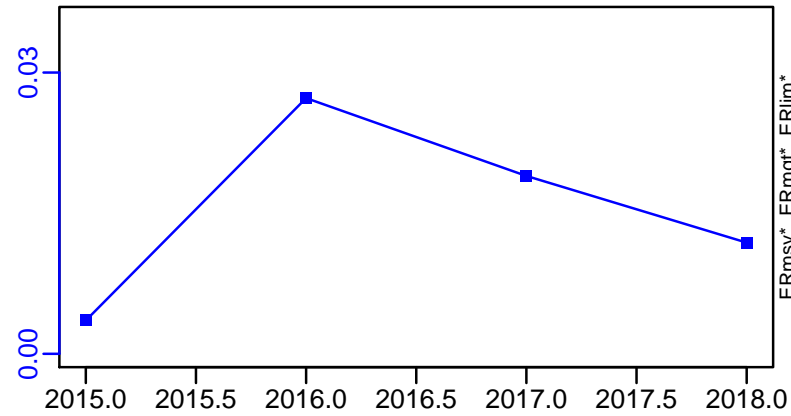
TN *



F*



ER-ratio (1994–2019–ICESIMP2021)

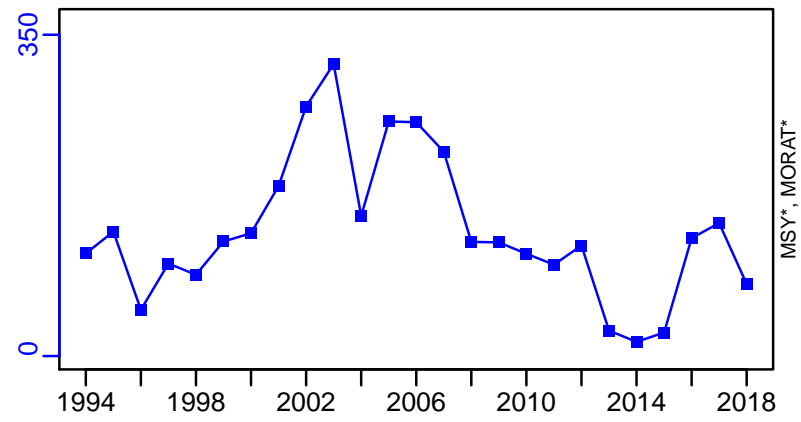


Recruits*



Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

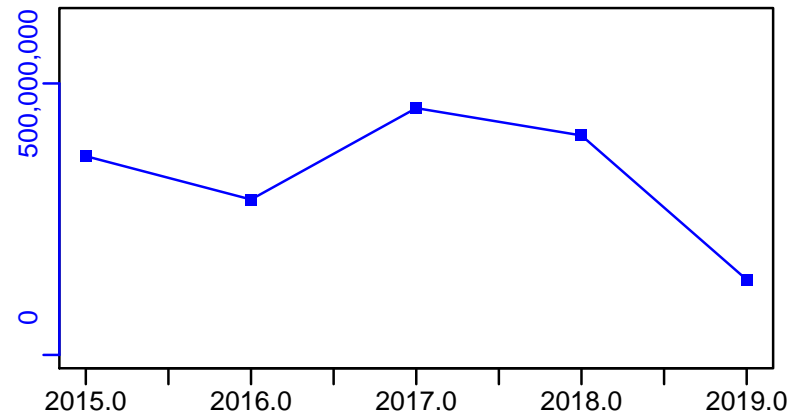
TC-MT, TL*, RecC* (1994-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1994-2019-ICESIMP2021)



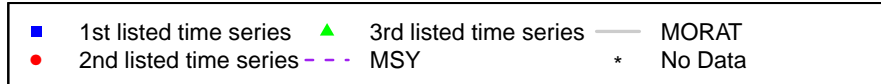
CPUE*



EFFORT*



CdivMSY*

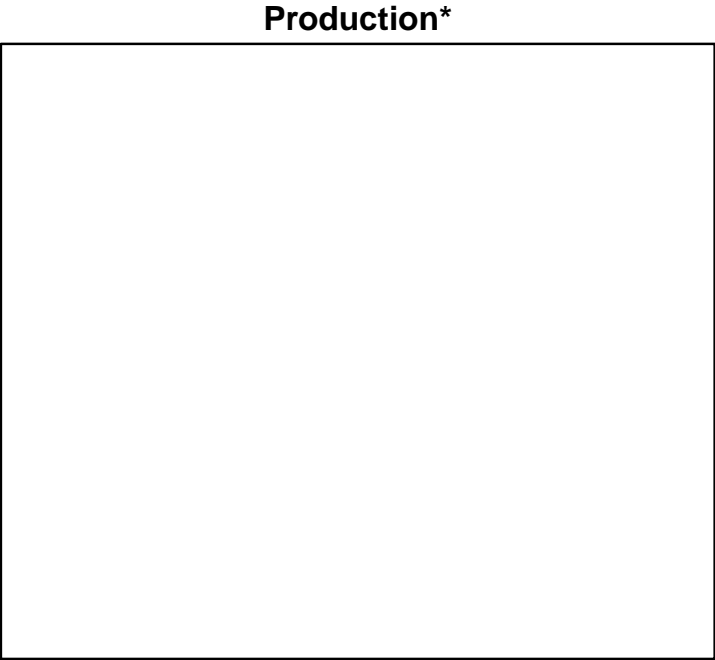
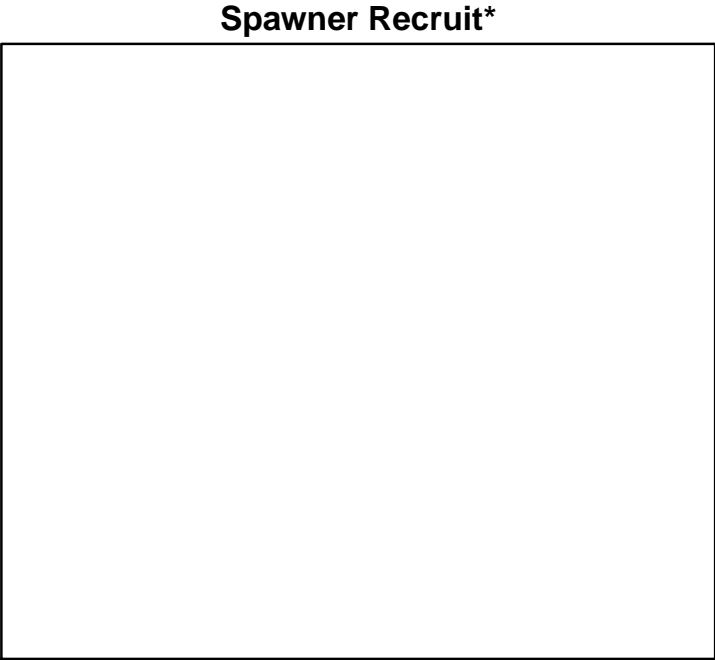
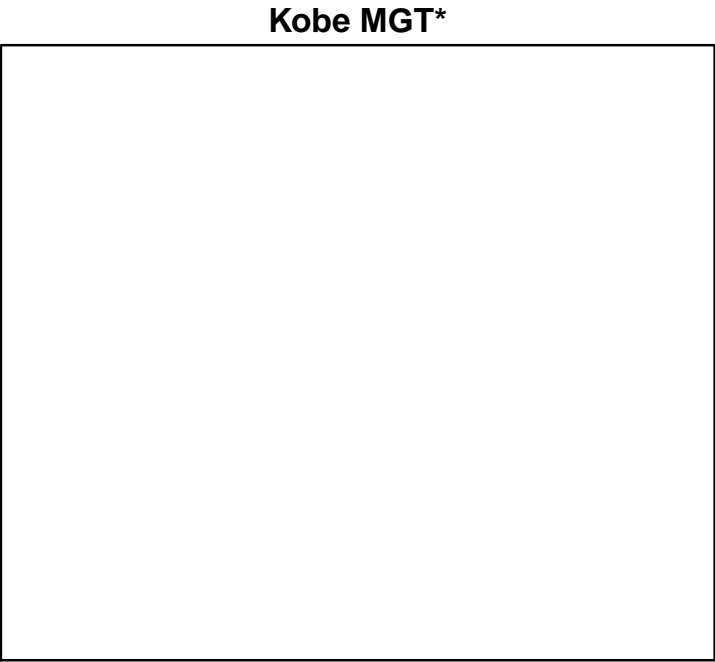
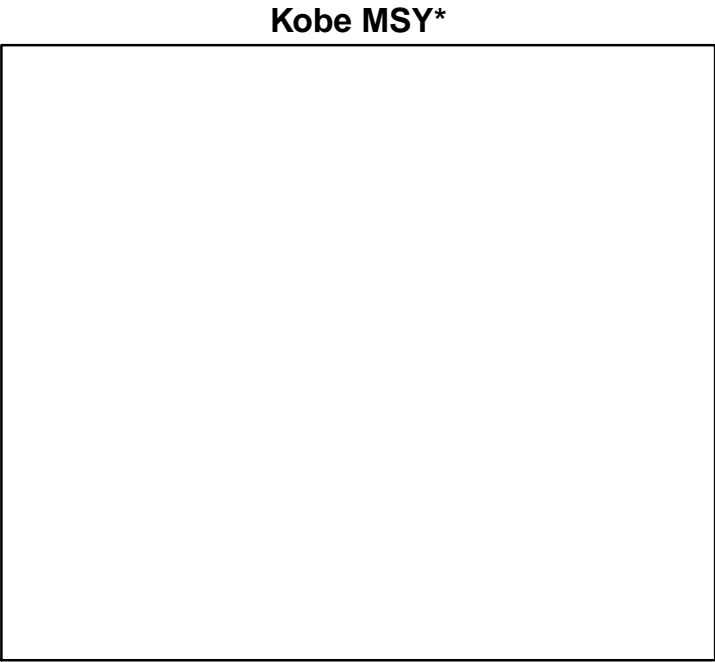


Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU31-1983-2018-ICESIMP2021
Area	Cantabrian Sea (FU 31)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 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	3		
TL	TL-MT	2016	4.26		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

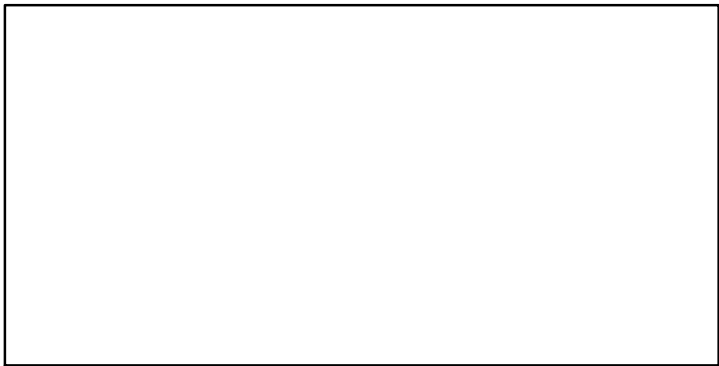


◆ Start Year ◆ End Year * No Data

TB*



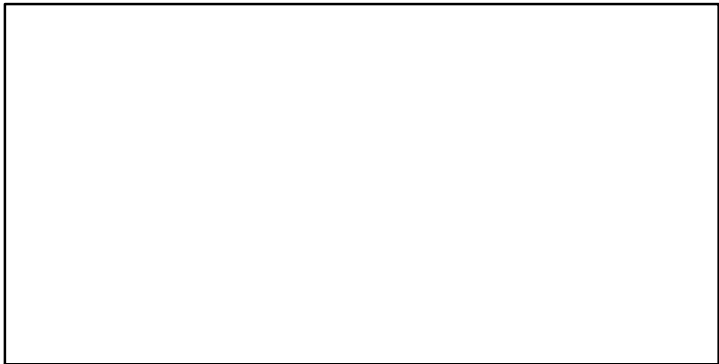
SSB*



TN *



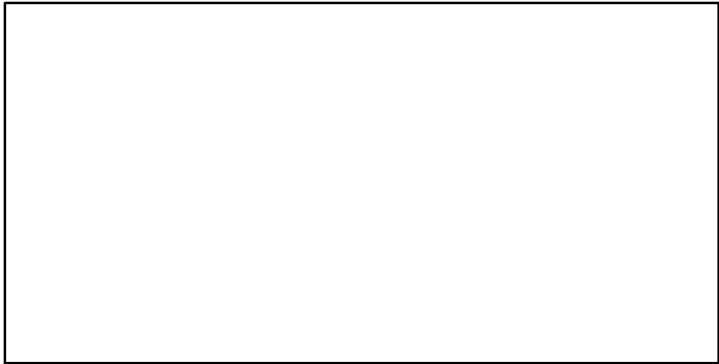
F*



ER*

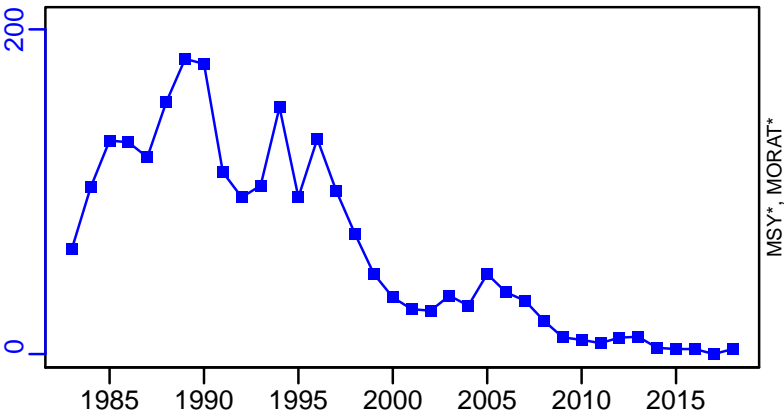


Recruits*



Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

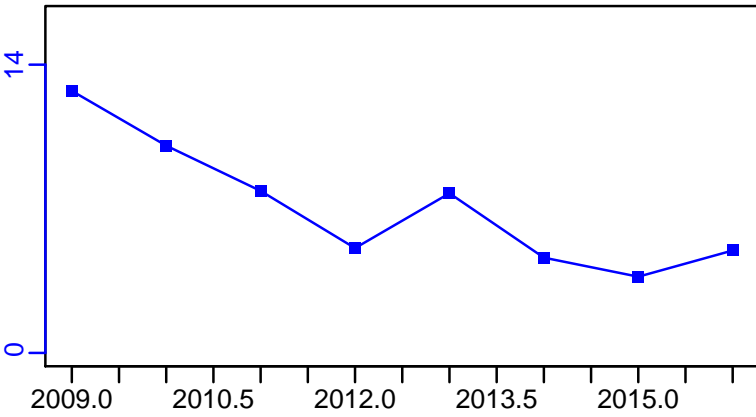
TC-MT, TL*, RecC* (1983–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-index (1983–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



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

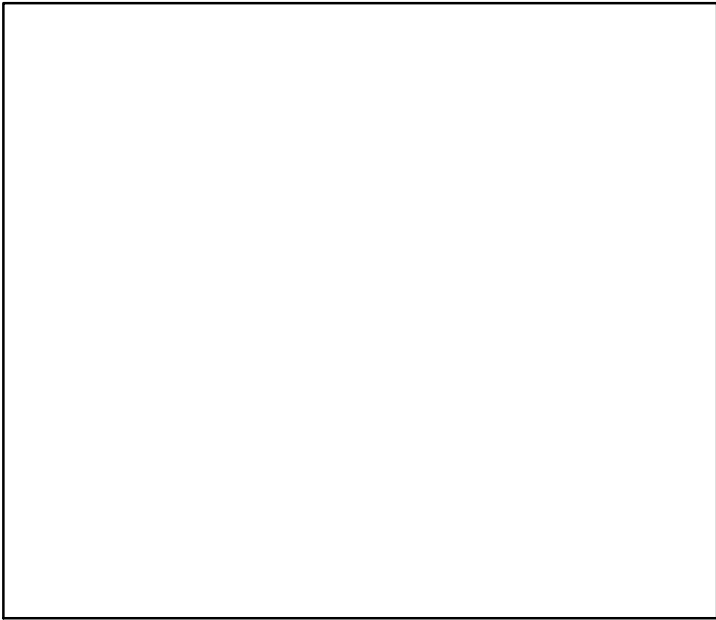
Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU32-1987-2017-ICESIMP2018
Area	Norwegian Deeps (FU 32)
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

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	198		
TL	TL-MT	2017	53		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

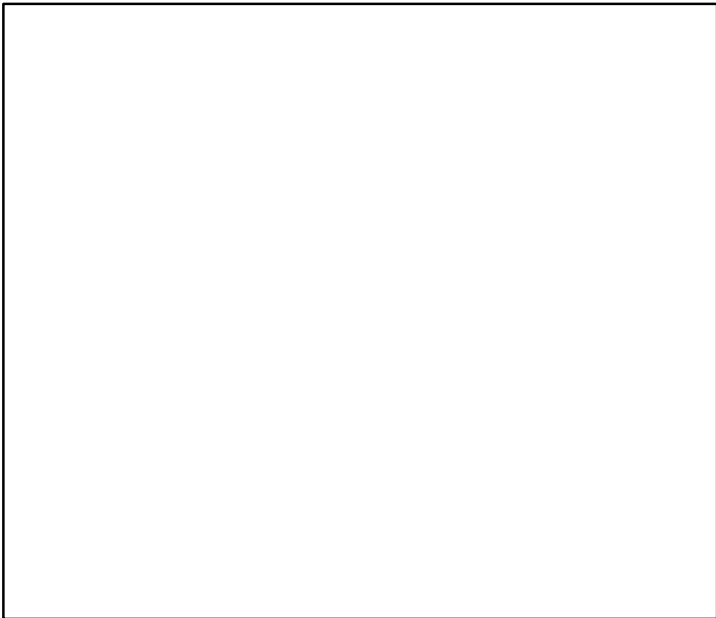
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



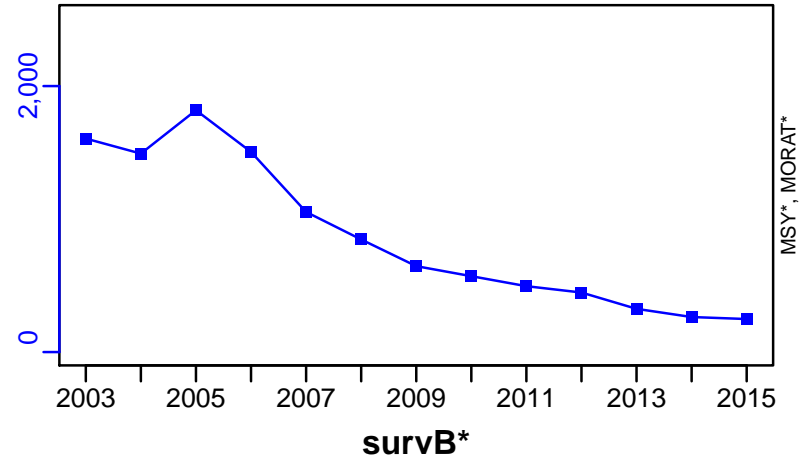
Recruits*



Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

TC-MT, TL*, RecC* (1987-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



Norway lobster Off Horn Reef (FU 33) [NEPHFU33]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU33-1993-2018-ICESIMP2021
Area	Off Horn Reef (FU 33)
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, 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	776		
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*

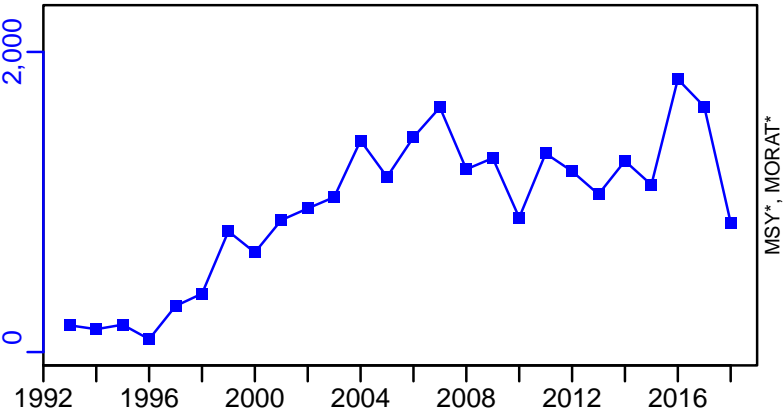


Recruits*



Norway lobster Off Horn Reef (FU 33) [NEPHFU33]

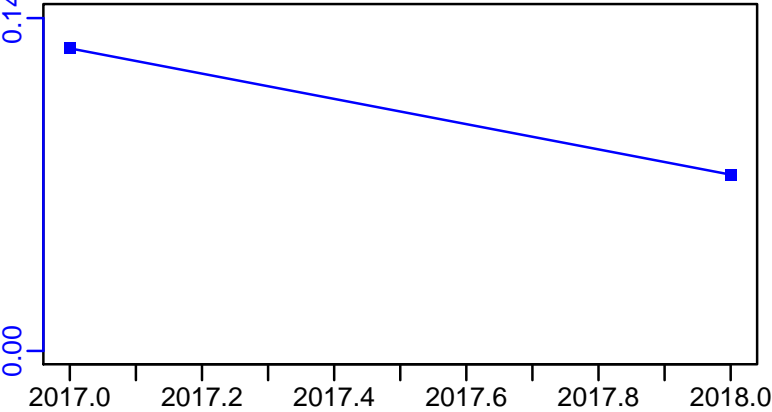
TL-MT, TC*, RecC* (1993–2018–ICESIMP2021)



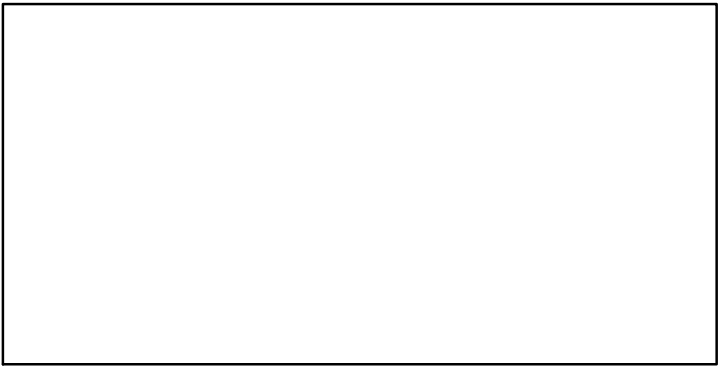
TAC*, Cpair*, Cadv*



survB-index (1993–2018–ICESIMP2021)



CPUE*



CdivMSY*



Norway lobster Devils Hole (FU 34) [NEPHFU34]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU34-2003-2017-ICESIMP2018
Area	Devils Hole (FU 34)
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

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	550		
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*

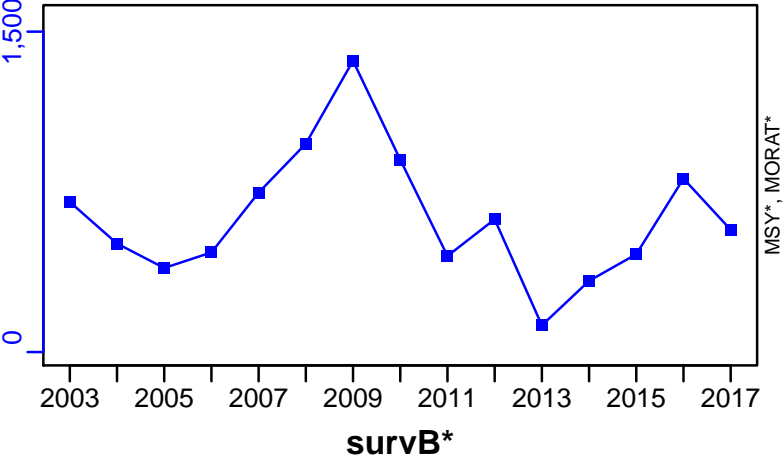


Recruits*



Norway lobster Devils Hole (FU 34) [NEPHFU34]

TL-MT, TC*, RecC* (2003-2017-ICESIMP2018)



TAC*, Cpair*, Cadv*



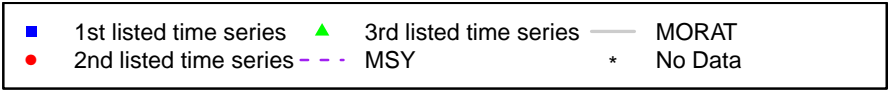
CPUE*



EFFORT*



CdivMSY*



Norway lobster Skagerak Kattegat (FU 3-4) [NEPHFU3-4]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU3-4-1960-2018-ICESIMP2021
Area	Skagerak Kattegat (FU 3-4)
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, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.079
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2018	0.079
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	2018	0.036	-	-
TC	TC-MT	2018	8435		
TL	TL-MT	2018	7100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.389		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Skagerak Kattegat (FU 3–4) [NEPHFU3–4]

TB*



SSB*



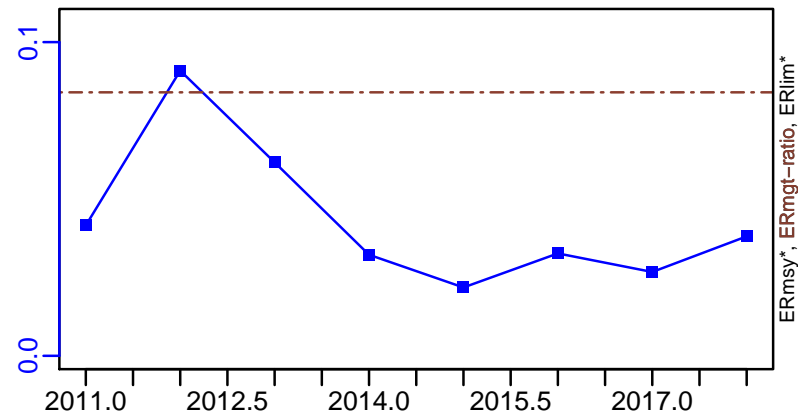
TN *



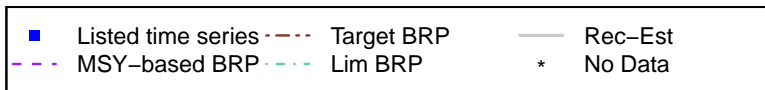
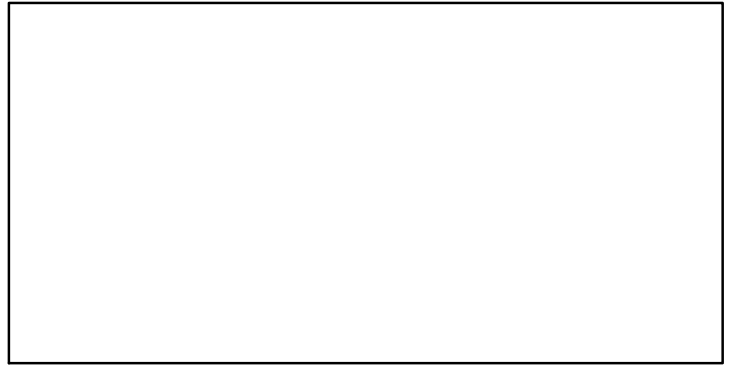
F*



ER-ratio (1960–2018–ICESIMP2021)

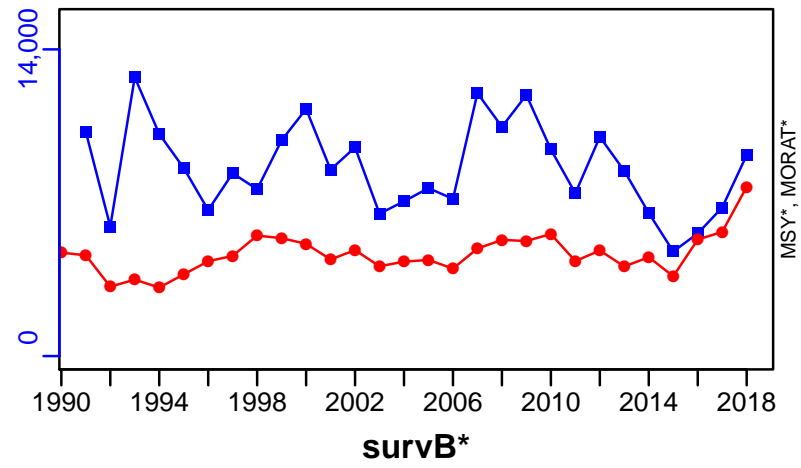


Recruits*



Norway lobster Skagerak Kattegat (FU 3–4) [NEPHFU3–4]

TC–MT, TL–MT, RecC* (1960–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Norway lobster Botney Cut - Silver Pit (FU 5) [NEPHFU5]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU5-1991-2017-ICESIMP2018
Area	Botney Cut - Silver Pit (FU 5)
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

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	2110		
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*



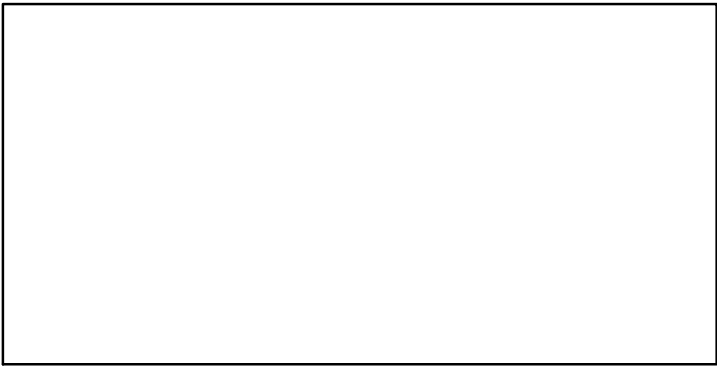
SSB*



TN *



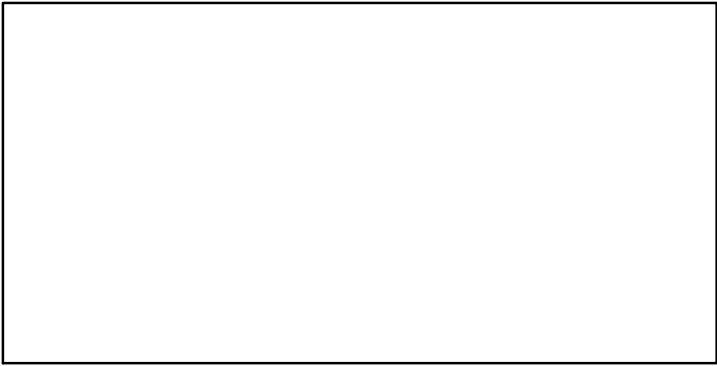
F*



ER*



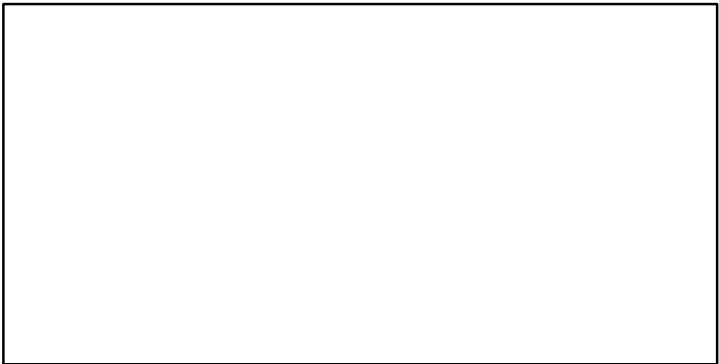
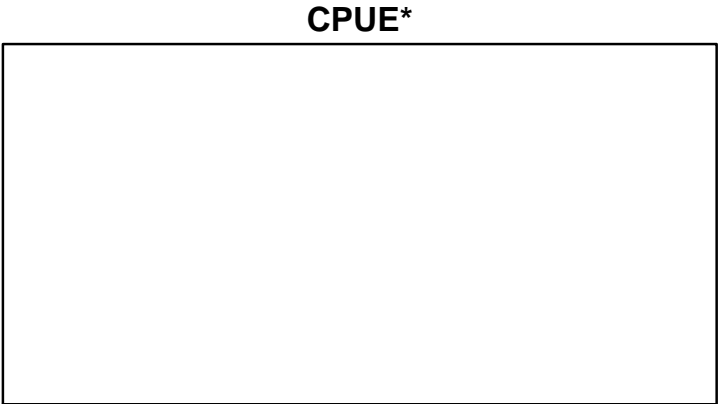
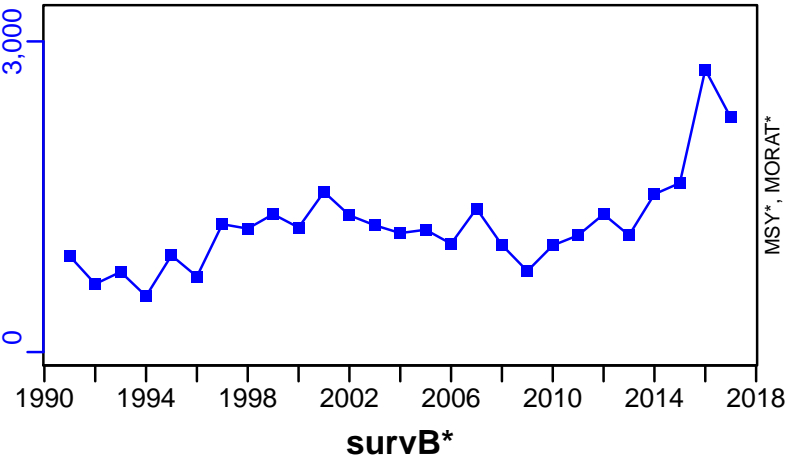
Recruits*



Norway lobster Botney Cut – Silver Pit (FU 5) [NEPHFU5]

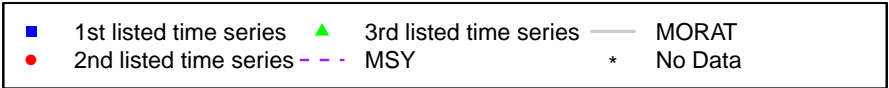
TL–MT, TC*, RecC* (1991–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Norway lobster Farn Deep (FU 6) [NEPHFU6]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU6-1981-2016-ICESIMP2018
Area	Farn Deep (FU 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	2015, 2016, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.081
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.081
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	2016	0.116	-	-
TC	TC-MT	2016	2130		
TL	TL-MT	2016	1370		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.432		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Farn Deepes (FU 6) [NEPHFU6]

TB*



SSB*



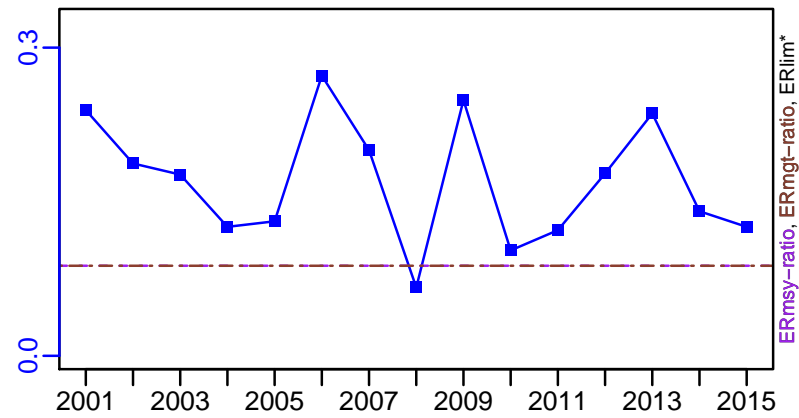
TN *



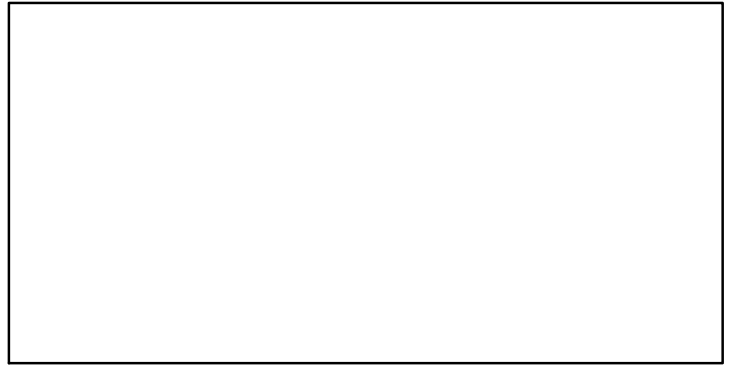
F*



ER-ratio (1981–2016–ICESIMP2016)



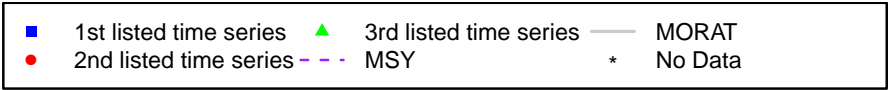
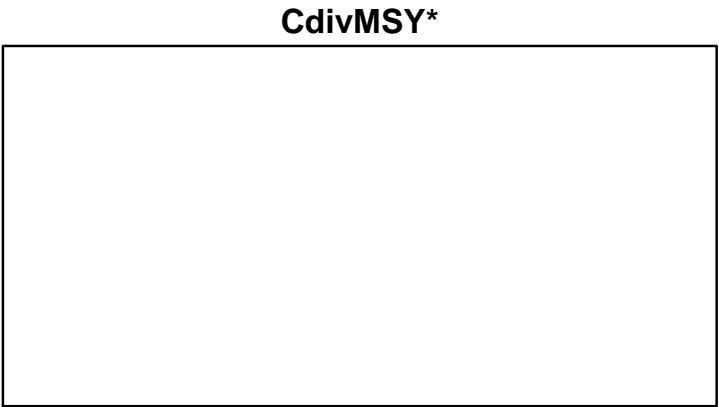
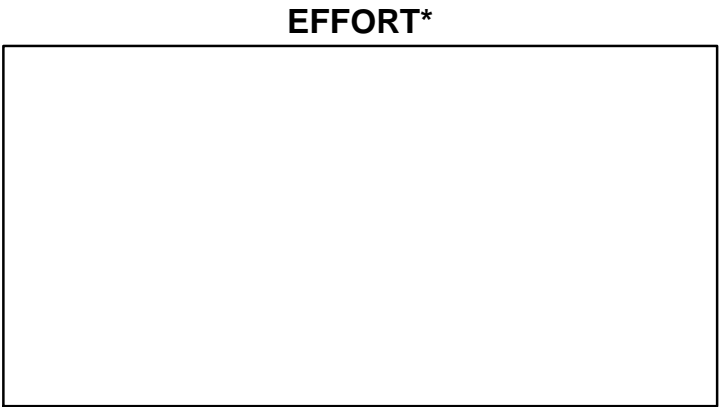
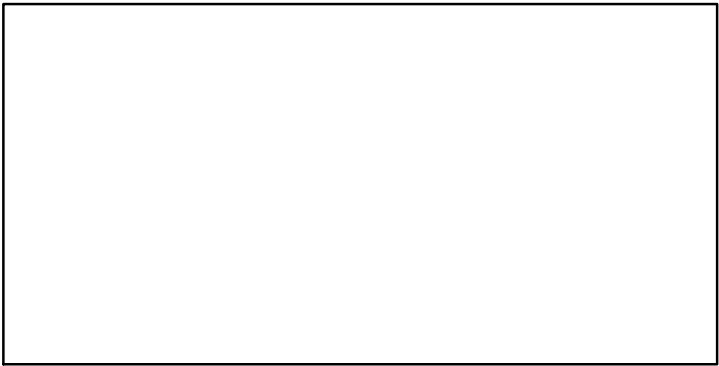
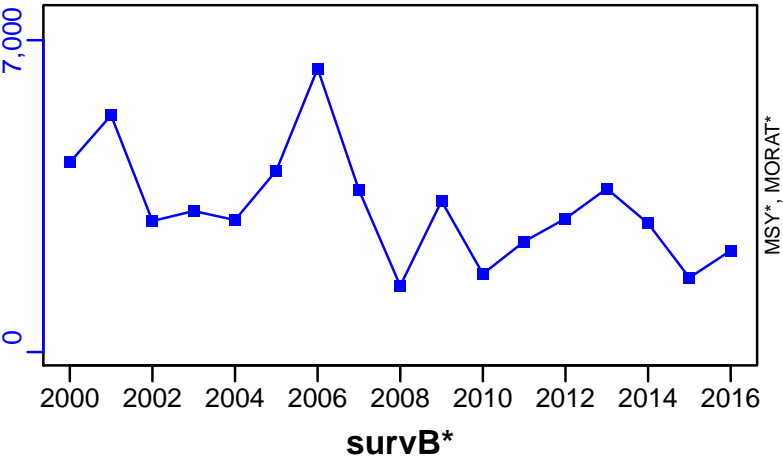
Recruits*



Norway lobster Farn Deepes (FU 6) [NEPHFU6]

TC-MT, TL*, RecC* (1981-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

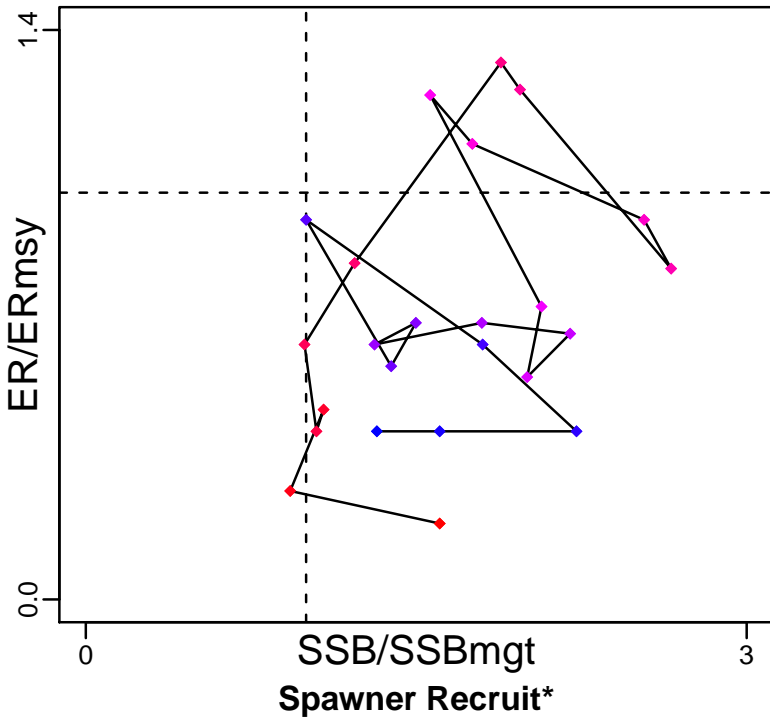
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU7-1992-2019-ICESIMP2021
Area	Fladen Ground (FU 7)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	7.5
ERmsy	ERmsy-ratio	2017	0.075
TBmgt	-	-	-
SSBmgt	SSBmgt-E00	2017	2.77×10^9
Fmgt	Fmgt-1/yr	2016	7.5
ERmgt	ERmgt-ratio	2019	0.075
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

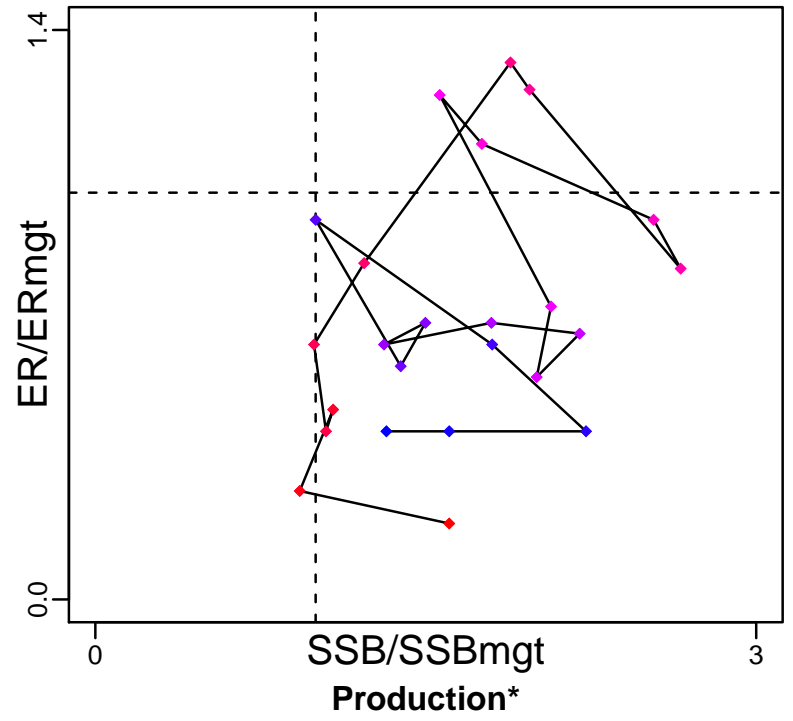
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2017	7.04×10^9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	2	-	-
ER	ER-ratio	2019	0.028	-	-
TC	-	-	-		
TL	TL-MT	2019	4418		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.267		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.187		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2017	2.542		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.267		
ER/ERmgt	-	-	-		

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

Kobe MSYpref (1992–2017–ICESIMP2018)



Kobe MGTpref (1992–2017–ICESIMP2018)



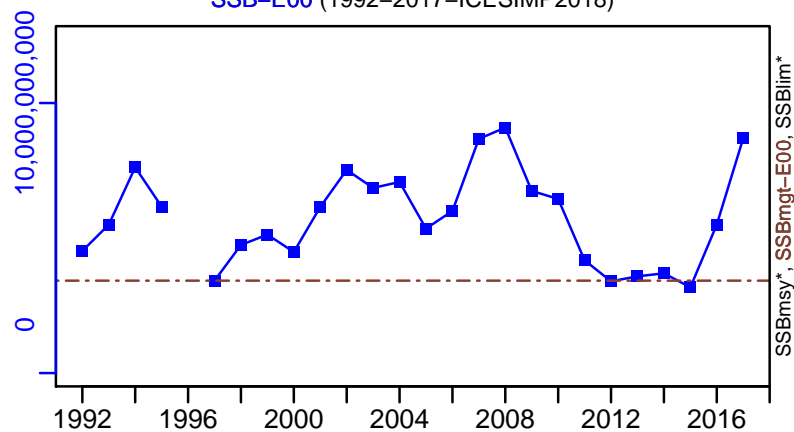
◆ Start Year ◆ End Year * No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

TB*



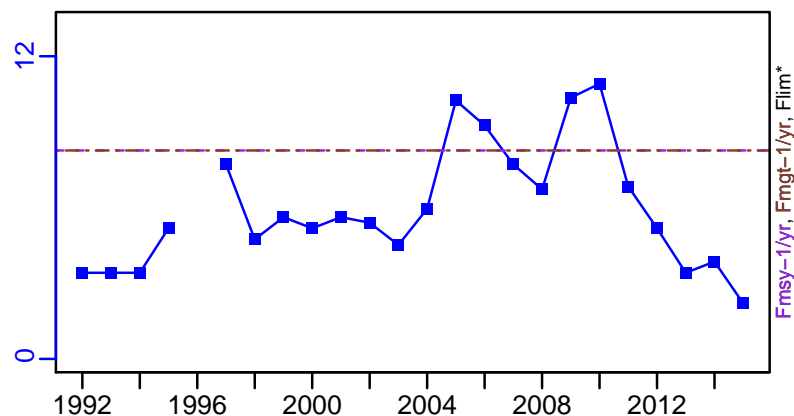
SSB-E00 (1992-2017-ICESIMP2018)



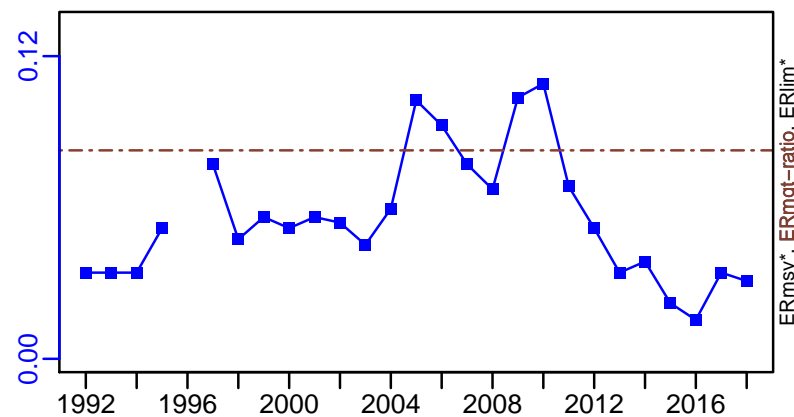
TN *



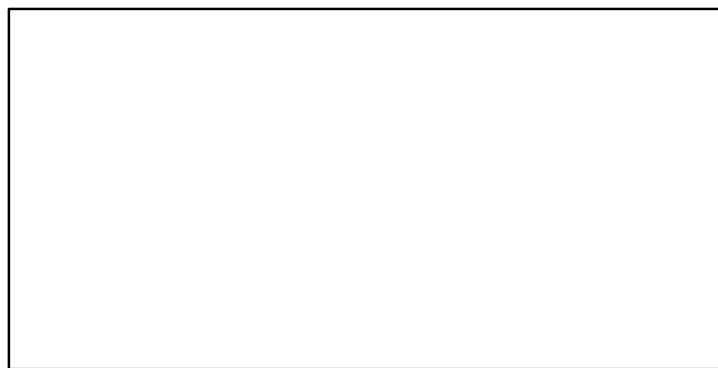
F-1/yr (1992-2016-ICESIMP2018)



ER-ratio (1992-2019-ICESIMP2021)

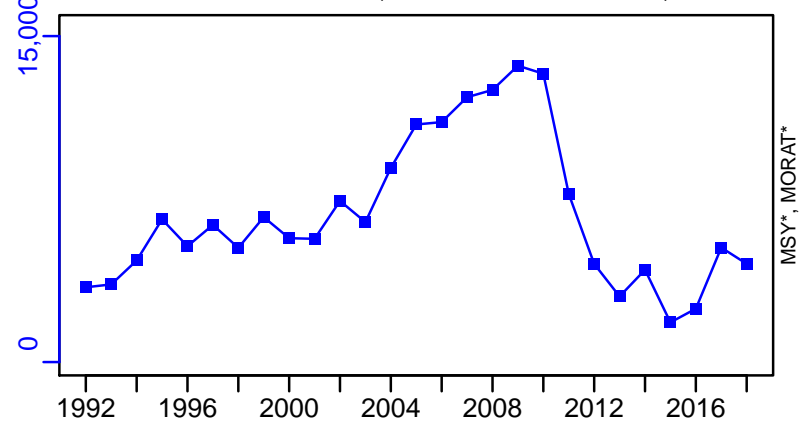


Recruits*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

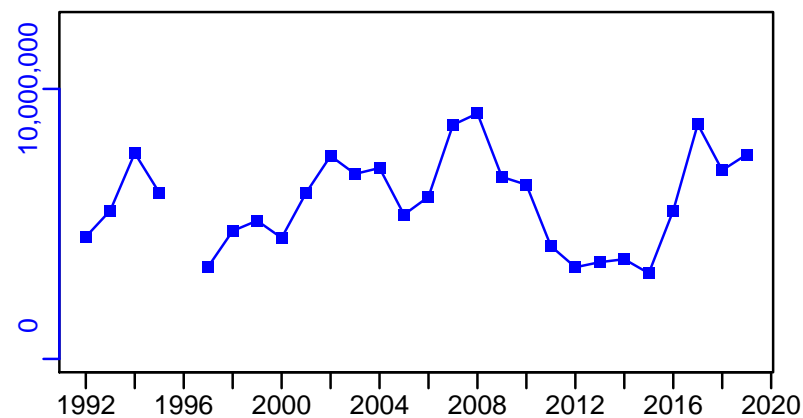
TL-MT, TC*, RecC* (1992–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-E00 (1992–2019–ICESIMP2021)



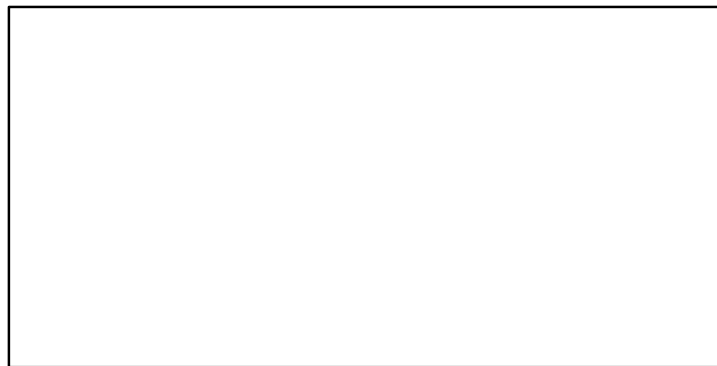
CPUE*



EFFORT*



CdivMSY*

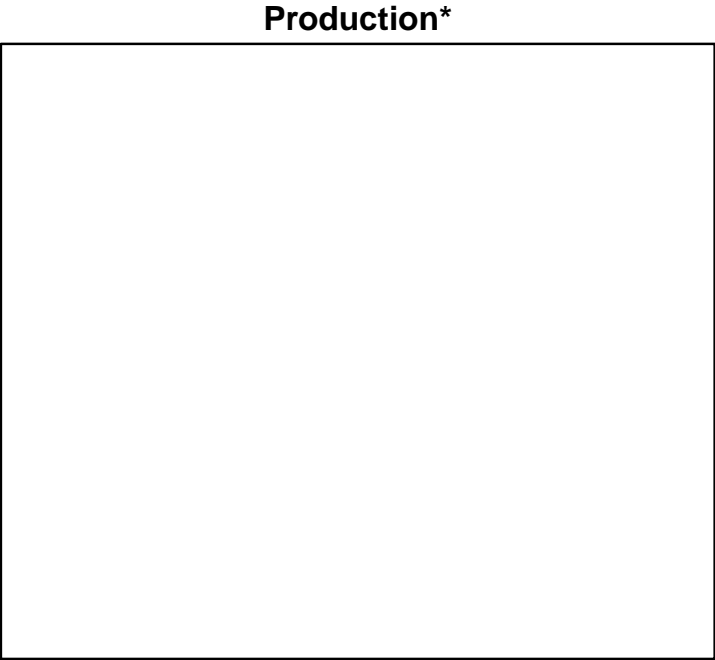
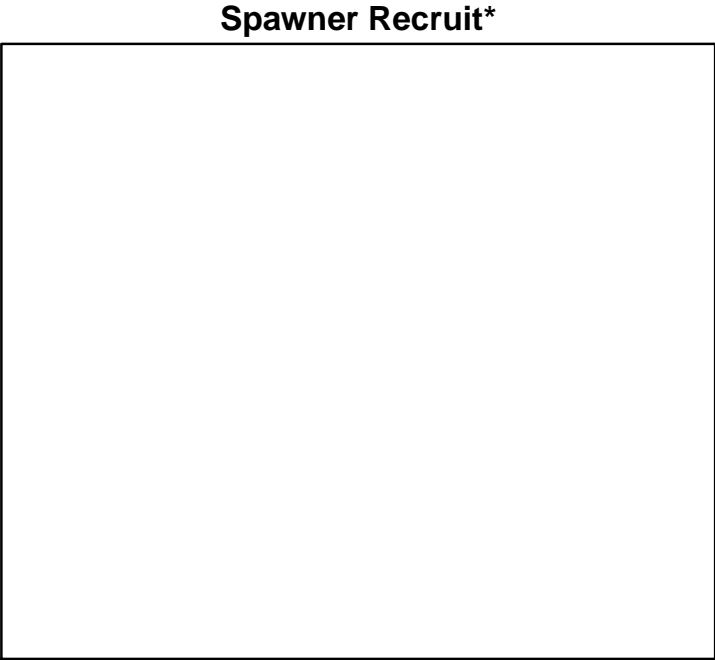
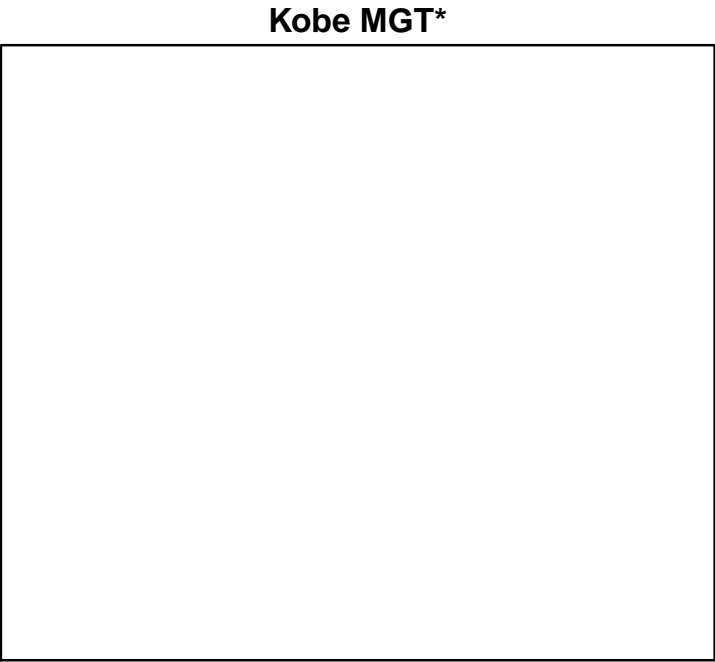
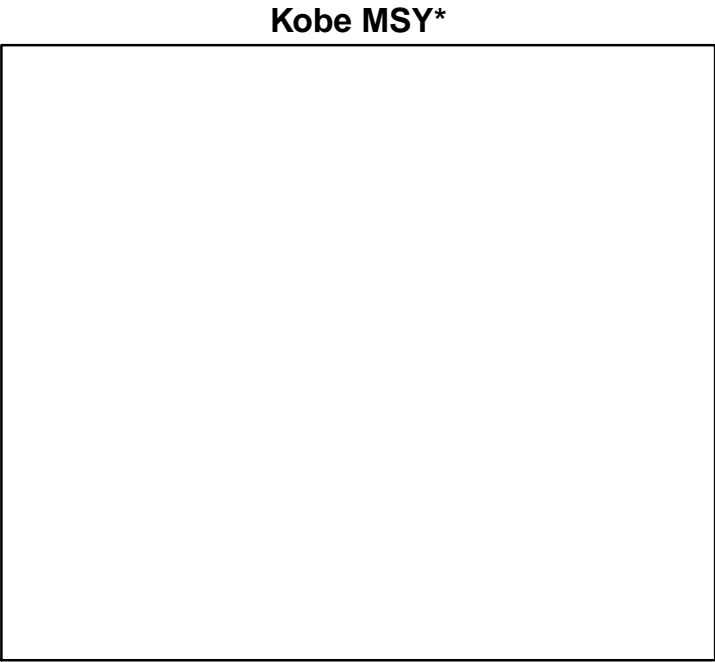


Norway lobster Firth of Forth (FU 8) [NEPHFU8]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU8-1993-2019-ICESIMP2021
Area	Firth of Forth (FU 8)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.163
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2019	0.163
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	0.129	-	-
TC	-	-	-		
TL	TL-MT	2019	2690		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.031		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Norway lobster Firth of Forth (FU 8) [NEPHFU8]

TB*



SSB*



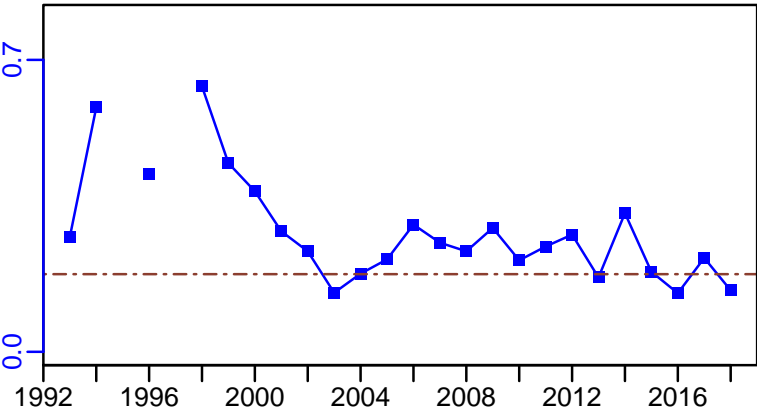
TN *



F*



ER-ratio (1993–2019–ICESIMP2021)

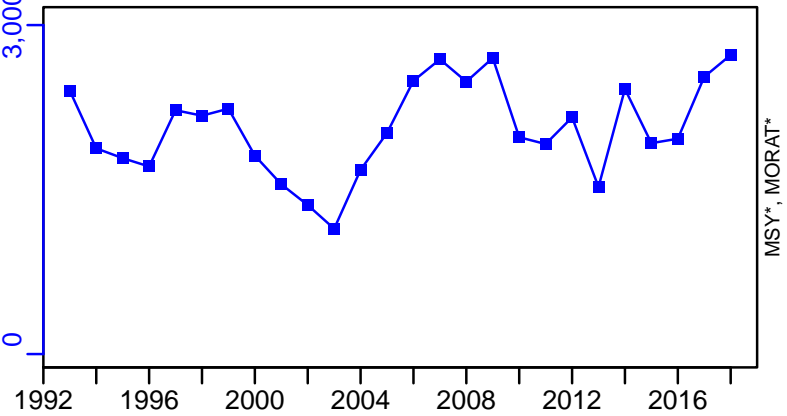


Recruits*

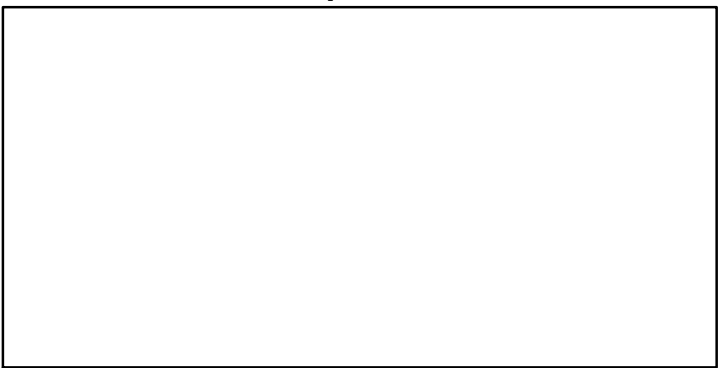


Norway lobster Firth of Forth (FU 8) [NEPHFU8]

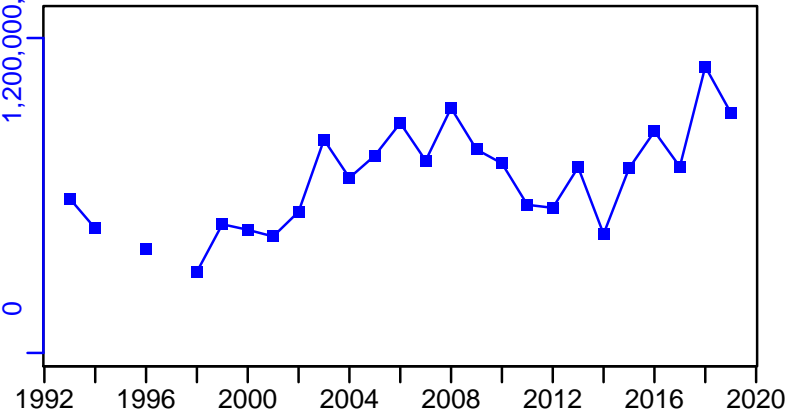
TL-MT, TC*, RecC* (1993–2019–ICESIMP2021)



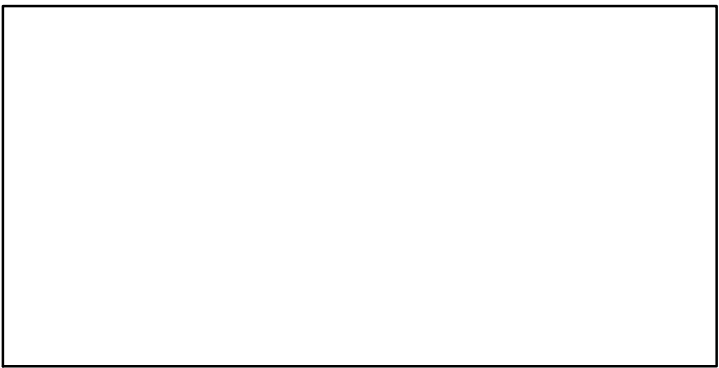
TAC*, Cpair*, Cadv*



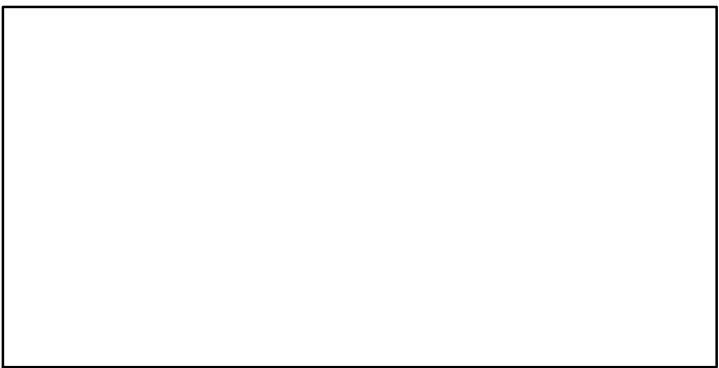
survB-E00 (1993–2019–ICESIMP2021)



CPUE*



CdivMSY*



Norway lobster Moray Firth (FU 9) [NEPHFU9]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU9-1993-2018-ICESIMP2021
Area	Moray Firth (FU 9)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2017	0.118
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2018	0.118
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	2018	0.117	-	-
TC	-	-	-		
TL	TL-MT	2018	1399		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.89		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Moray Firth (FU 9) [NEPHFU9]

TB*



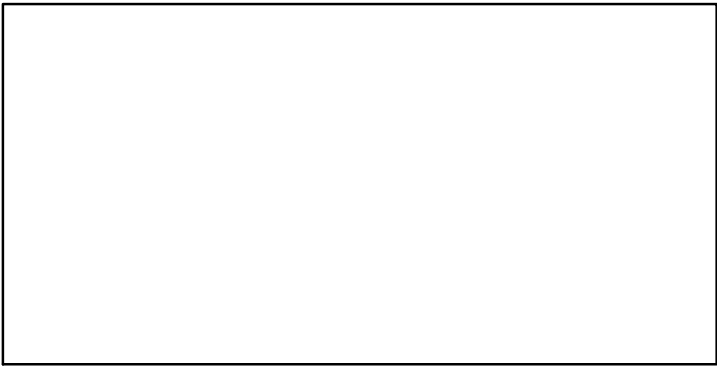
SSB*



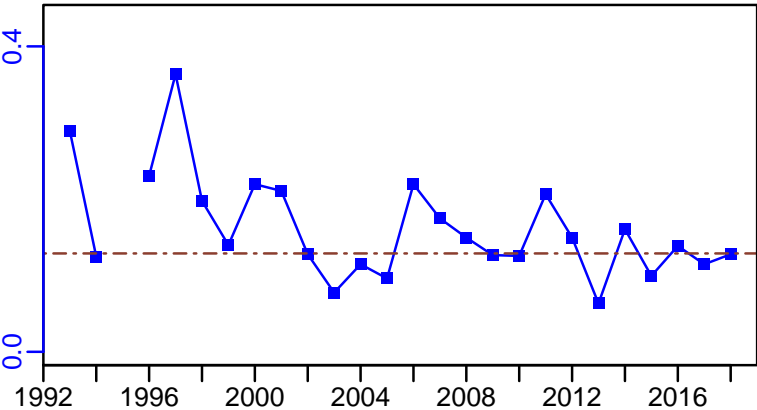
TN *



F*



ER-ratio (1993–2018–ICESIMP2021)

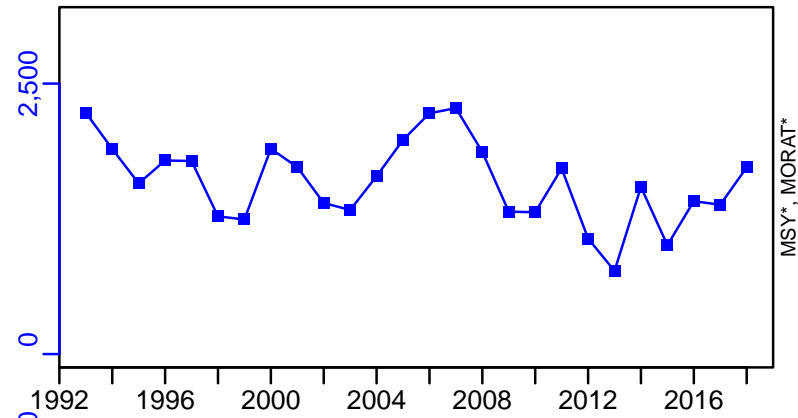


Recruits*



Norway lobster Moray Firth (FU 9) [NEPHFU9]

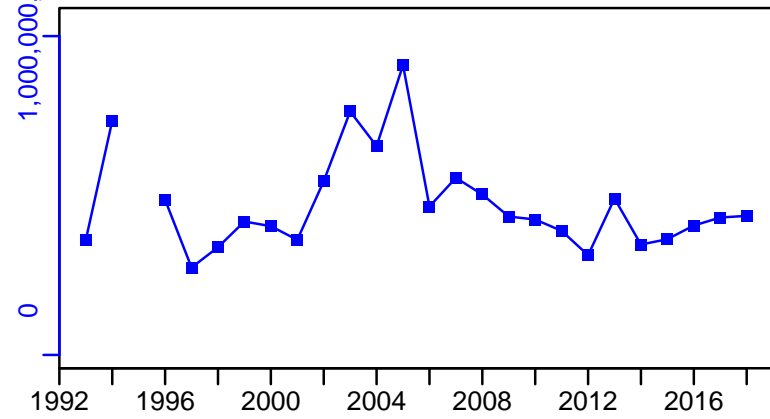
TL-MT, TC*, RecC* (1993–2018–ICESIMP2021)



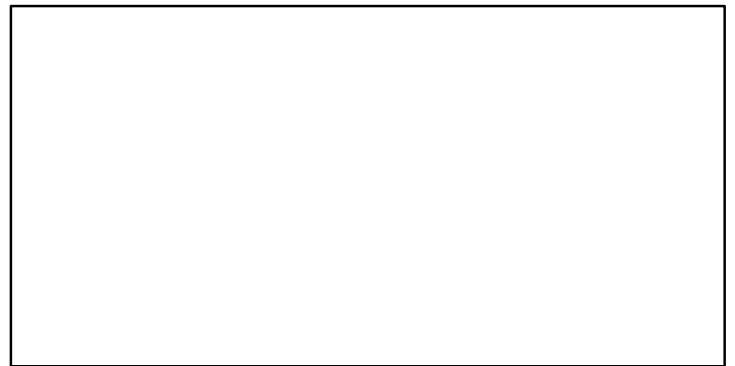
TAC*, Cpair*, Cadv*



survB-E00 (1993–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Norway lobster North Sea [NEPHIV]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHIV-2010-2016-ICESIMP2018
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	966		
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

Norway lobster North Sea [NEPHIV]

TB*



SSB*



TN *



F*



ER*

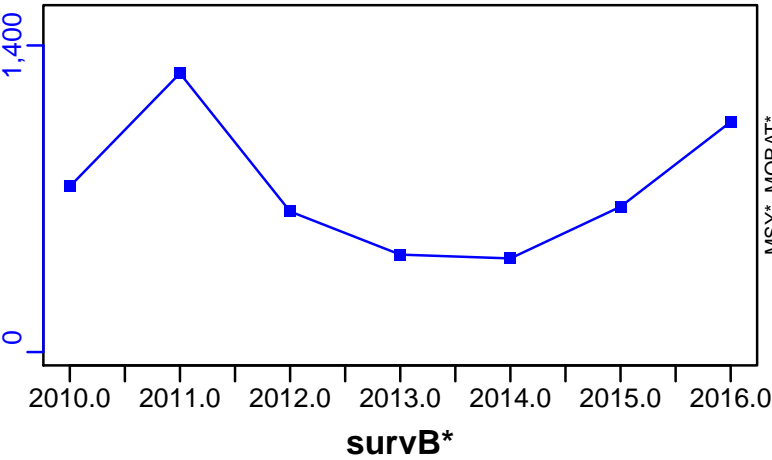


Recruits*



Norway lobster North Sea [NEPHIV]

TL-MT, TC*, RecC* (2010–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Norway lobster West of Scotland [NEPHVla]

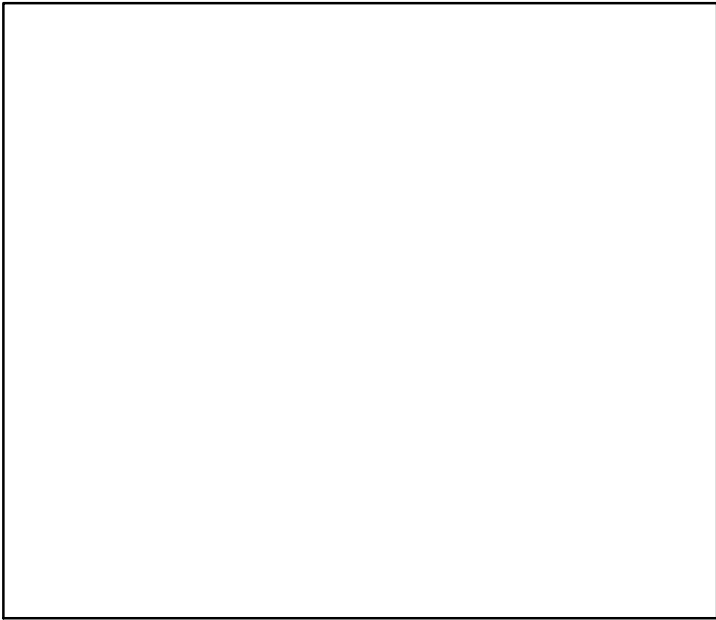
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHVla-1981-2016-ICESIMP2018
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	236		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Norway lobster West of Scotland [NEPHVla]

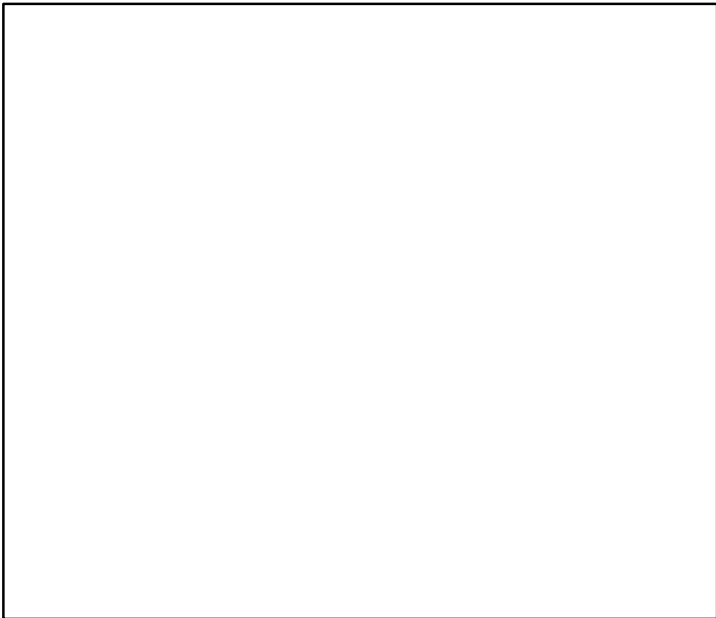
Kobe MSY*



Kobe MGT*



Spawner Recruit*



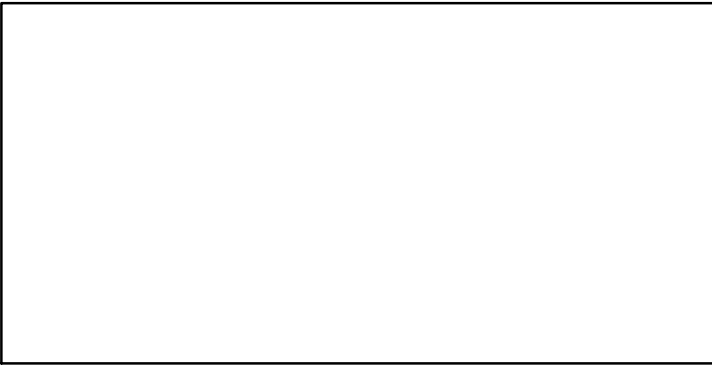
Production*



◆ Start Year ◆ End Year * No Data

Norway lobster West of Scotland [NEPHVla]

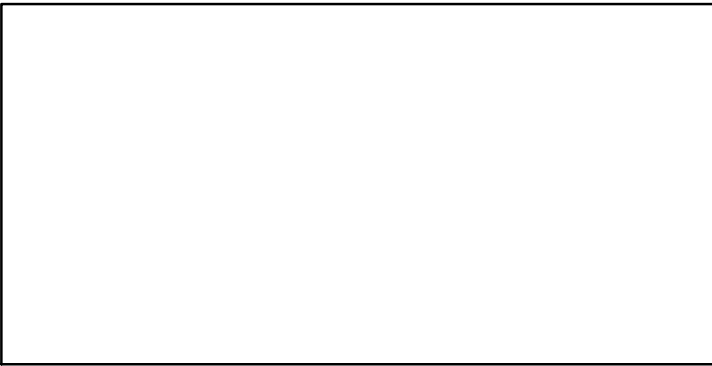
TB*



SSB*



TN *



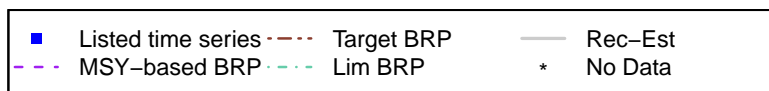
F*



ER*



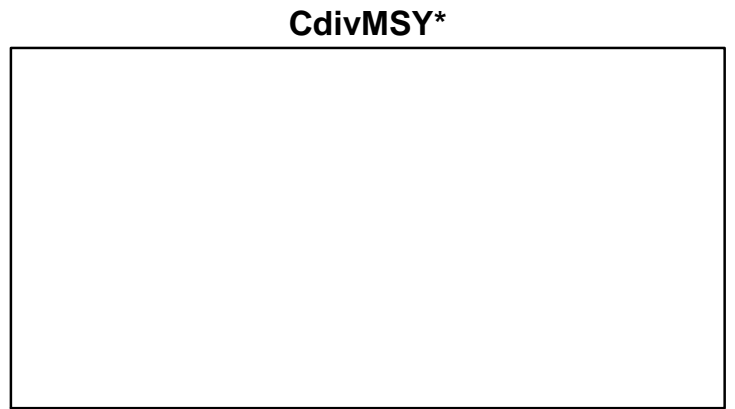
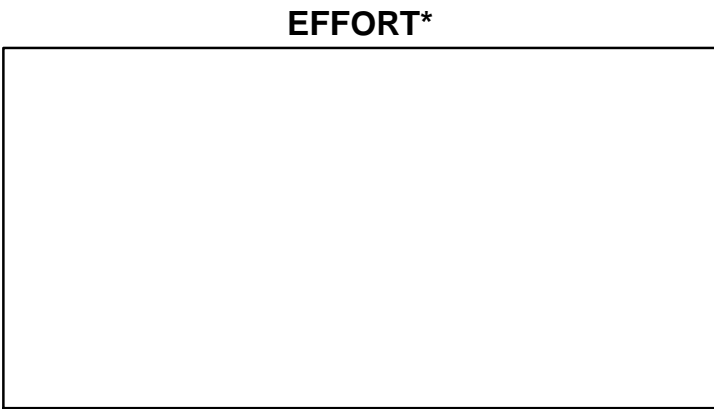
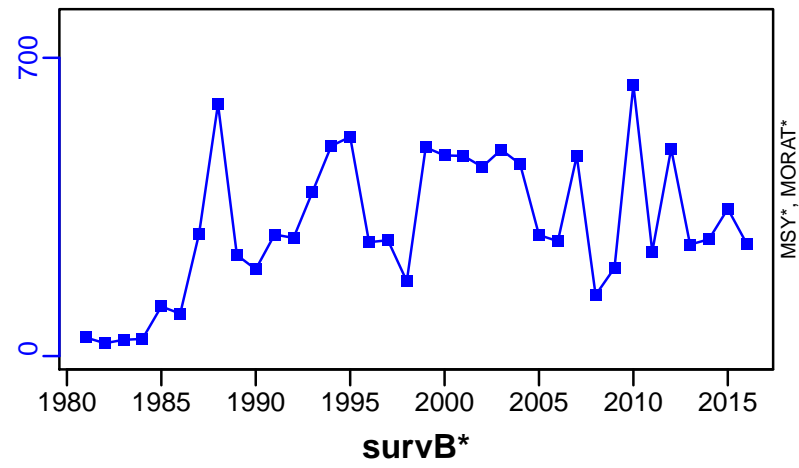
Recruits*



Norway lobster West of Scotland [NEPHVla]

TL-MT, TC*, RecC* (1981-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Norway lobster ICES 7 [NEPHVII]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHVII-1978-2016-ICESIMP2018
Area	ICES 7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 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	2016	119		
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

Norway lobster ICES 7 [NEPHVII]

TB*



SSB*



TN *



F*



ER*

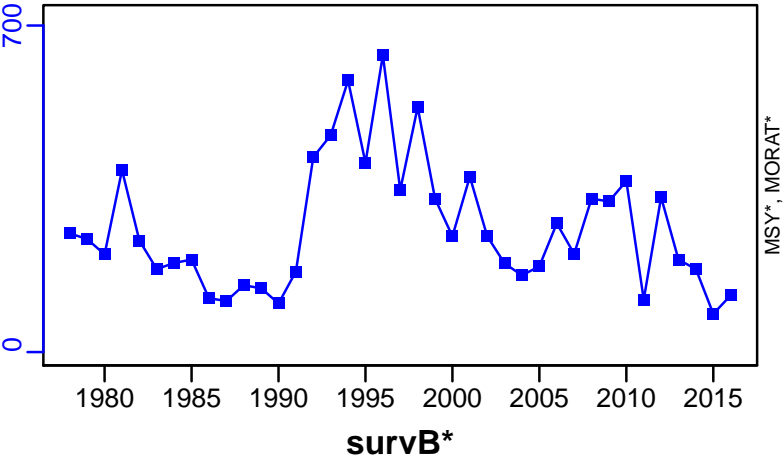


Recruits*



Norway lobster ICES 7 [NEPHVII]

TL-MT, TC*, RecC* (1978-2016-ICESIMP2018)



TAC*, Cpair*, Cadv*



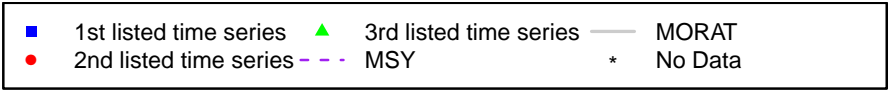
CPUE*



EFFORT*



CdivMSY*



Norway lobster ICES 8ab [NEPHVIIIab]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHVIIIab-1987-2019-ICESIMP2021
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	7.7
ERmsy	ERmsy-ratio	2019	0.077
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	7.7
ERmgt	ERmgt-ratio	2019	0.077
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2017	3370	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	6	-	-
ER	ER-ratio	2019	0.05	-	-
TC	TC-MT	2017	6620		
TL	TL-MT	2019	2125		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.779		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.652		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.779		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



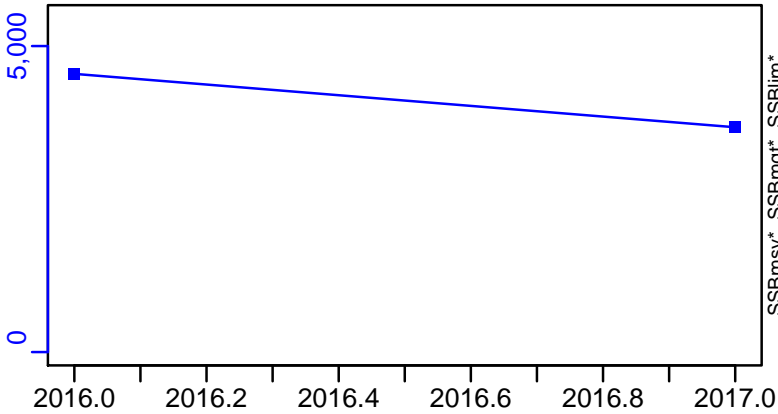
◆ Start Year ◆ End Year * No Data

Norway lobster ICES 8ab [NEPHVIIIab]

TB*



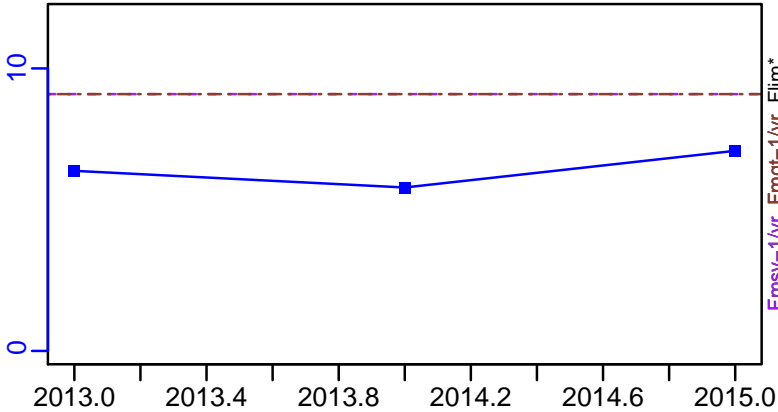
SSB-E00 (1987-2017-ICESIMP2018)



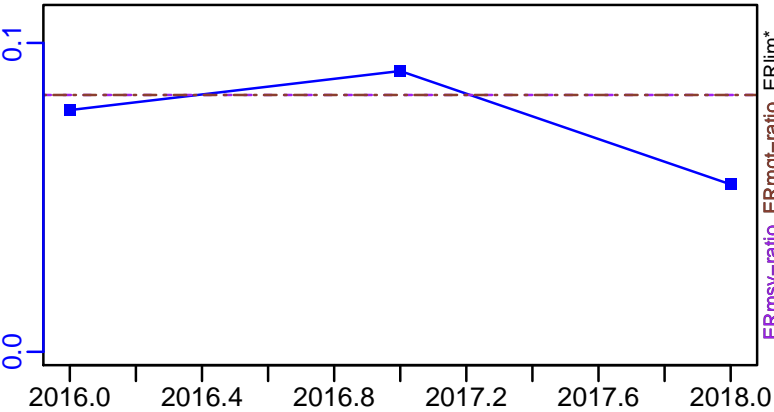
TN *



F-1/yr (1987-2016-ICESIMP2018)



ER-ratio (1987-2019-ICESIMP2021)

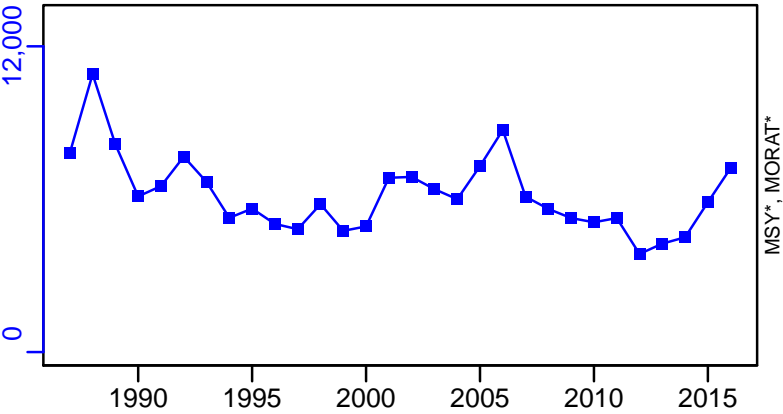


Recruits*



Norway lobster ICES 8ab [NEPHVIIIab]

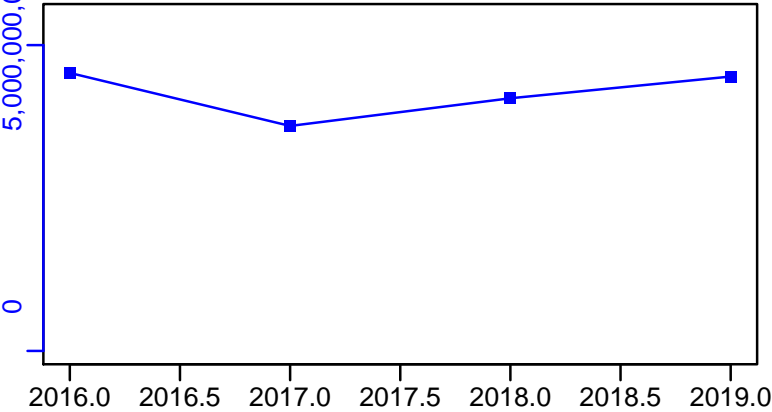
TC-MT, TL*, RecC* (1987-2017-ICESIMP2018)



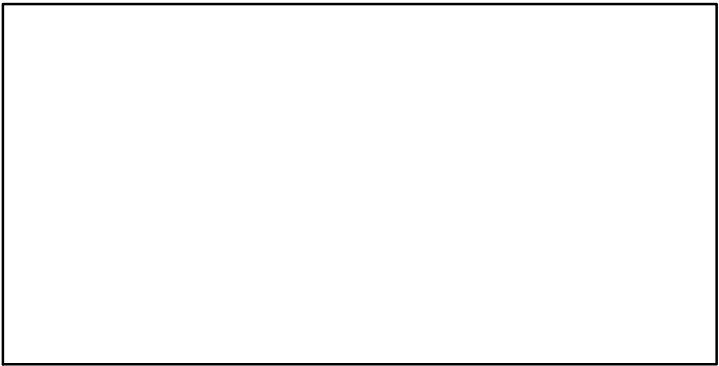
TAC*, Cpair*, Cadv*



survB-E00 (1987-2019-ICESIMP2021)



CPUE*



CdivMSY*



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

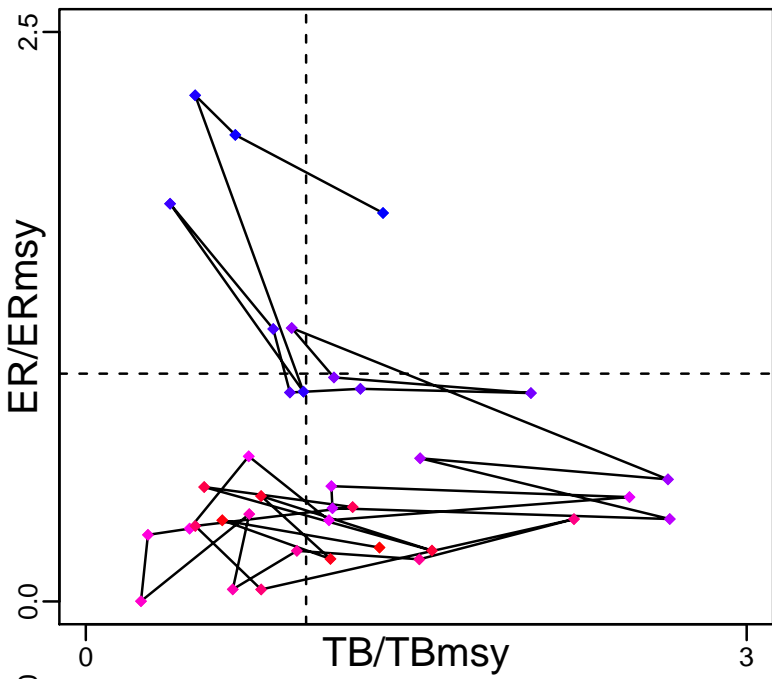
Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTIIIa-IV-1984-2019-ICESIMP2021
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2019	243,913
SSBmsy	SSBmsy-est-MT	2011	227,068
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.671
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	65,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	163,658
M	-	-	-
TBlim	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2017	39,450
Flim	-	-	-
ERlim	-	-	-

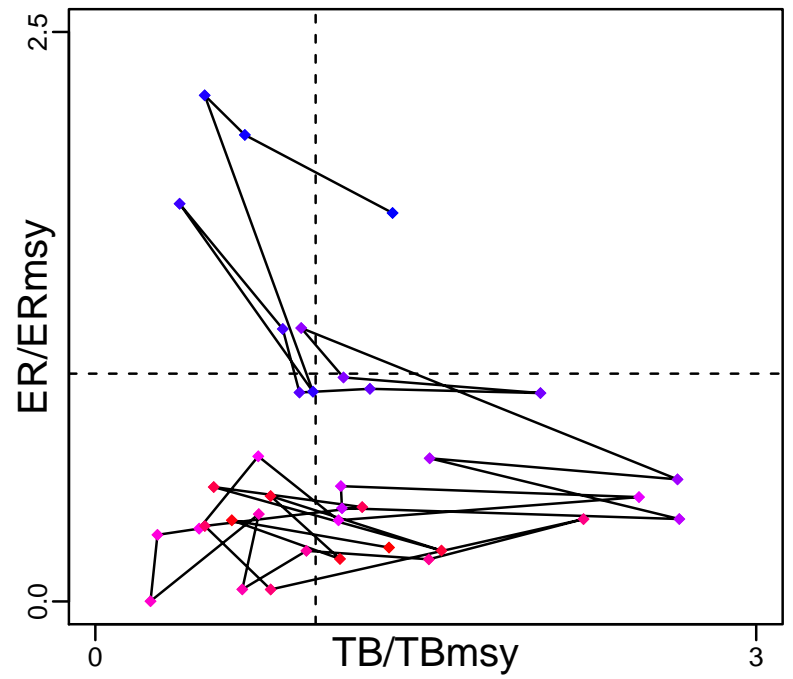
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	325,157	-	-
SSB	SSB-MT	2019	94,420	-	-
TN	-	-	-	-	-
R	R-E00	2019	80,528,000	-	0
F	F-1/yr	2019	0.311	-	1 to 2
ER	ER-calc-ratio	2019	0.159	-	-
TC	TC-MT	2017	30,100		
TL	TL-MT	2019	51,613		
TB/TBmsy	TB-MT/TBmsy-est-MT	2019	1.333		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2011	1.405		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.237		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	2.338		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

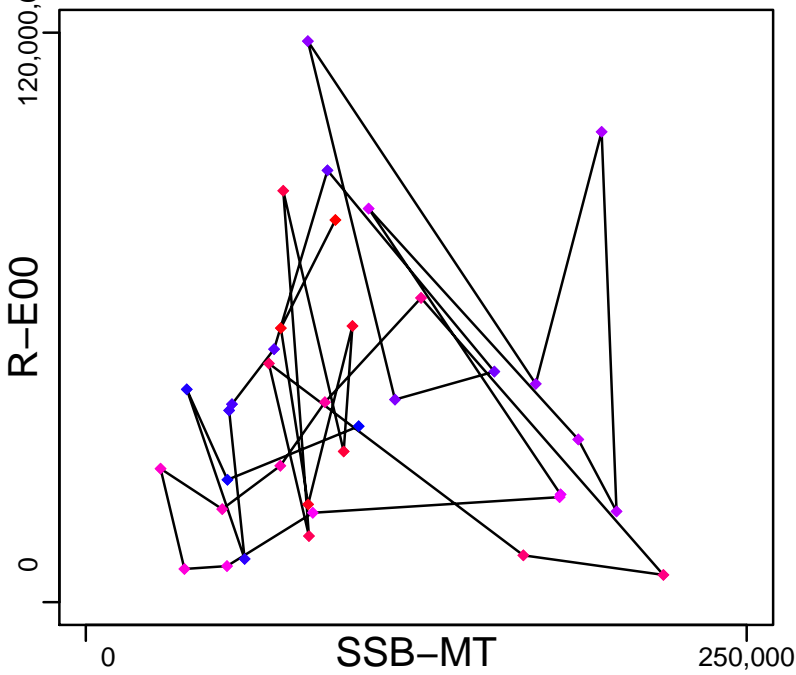
Kobe MSYpref (1984-2019-ICESIMP2021)



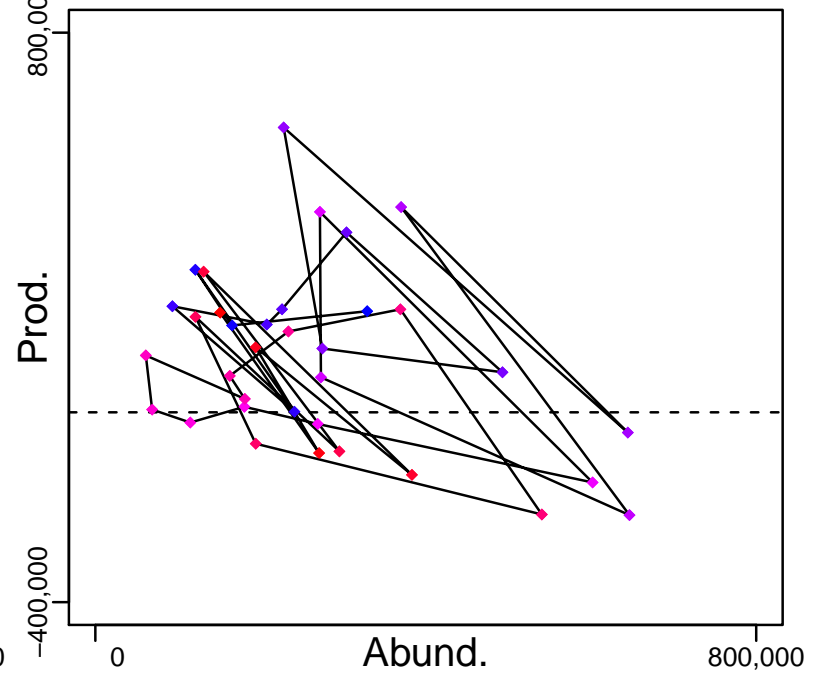
Kobe MGTpref (1984-2019-ICESIMP2021)



Spawner Recruit (1984-2019-ICESIMP2021)

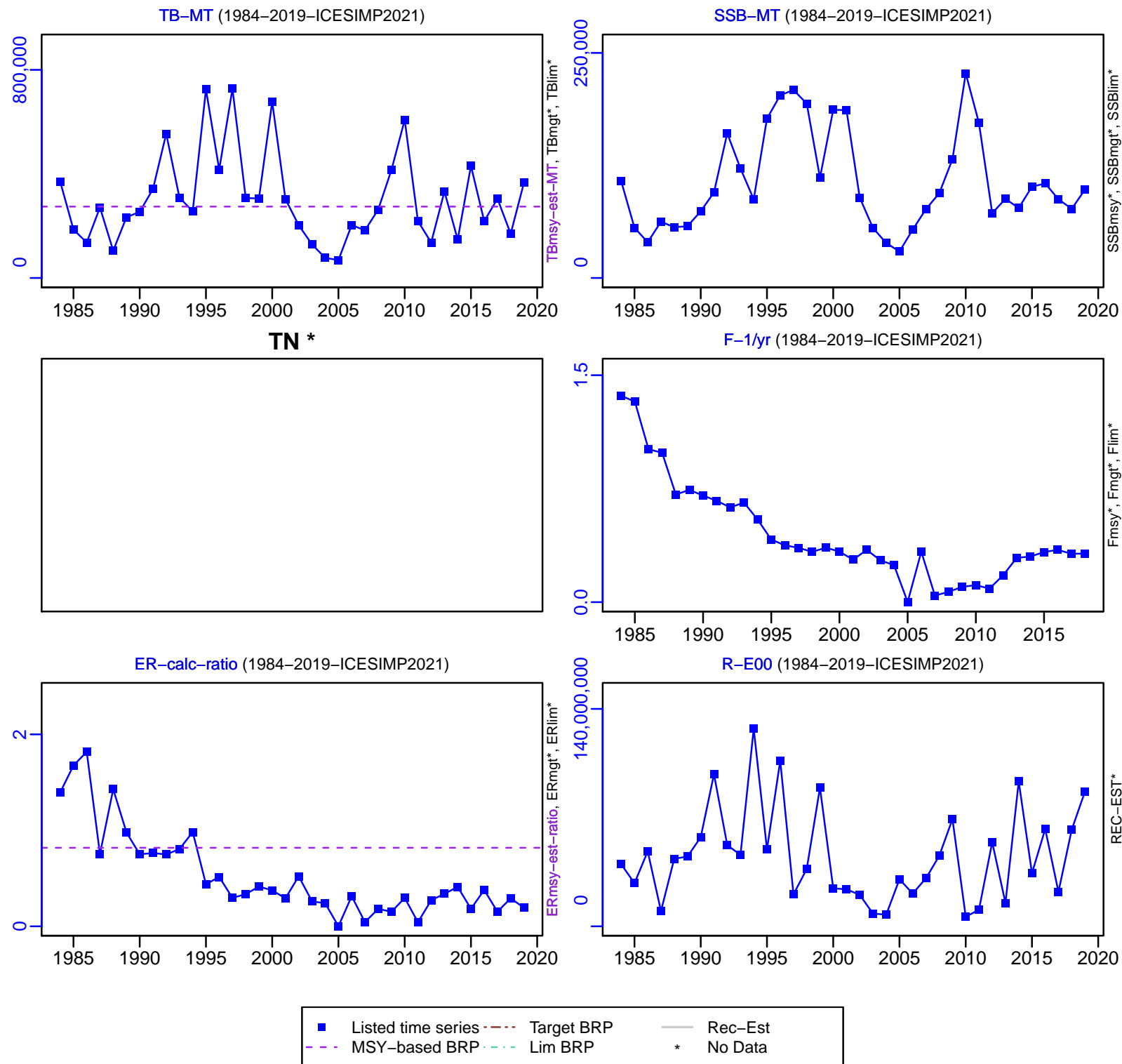


Production (1984-2019-ICESIMP2021)



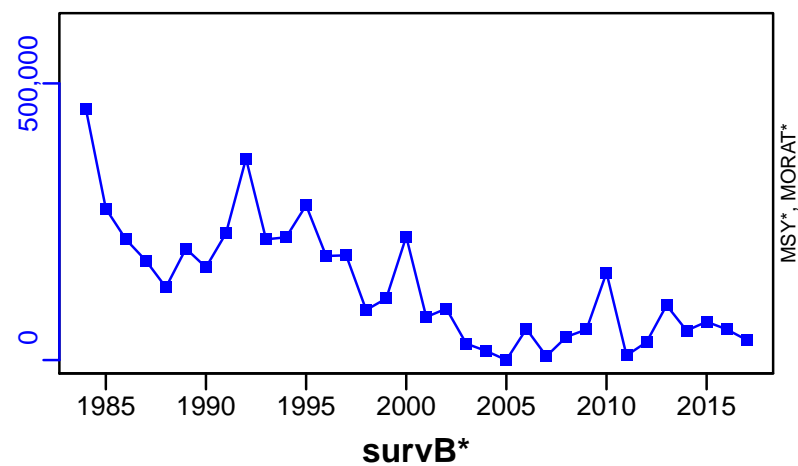
◆ Start Year ◆ End Year * No Data

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



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

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



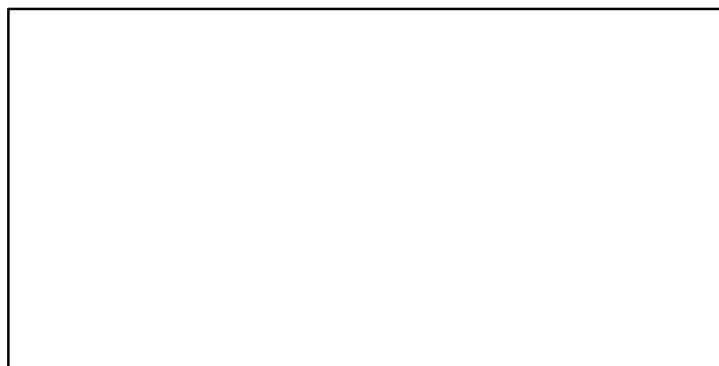
TAC*, Cpair*, Cadv*



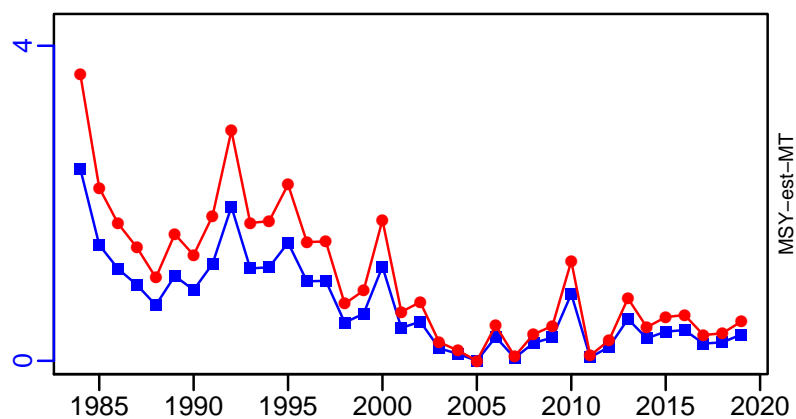
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1984-2019-ICESIMP2021)

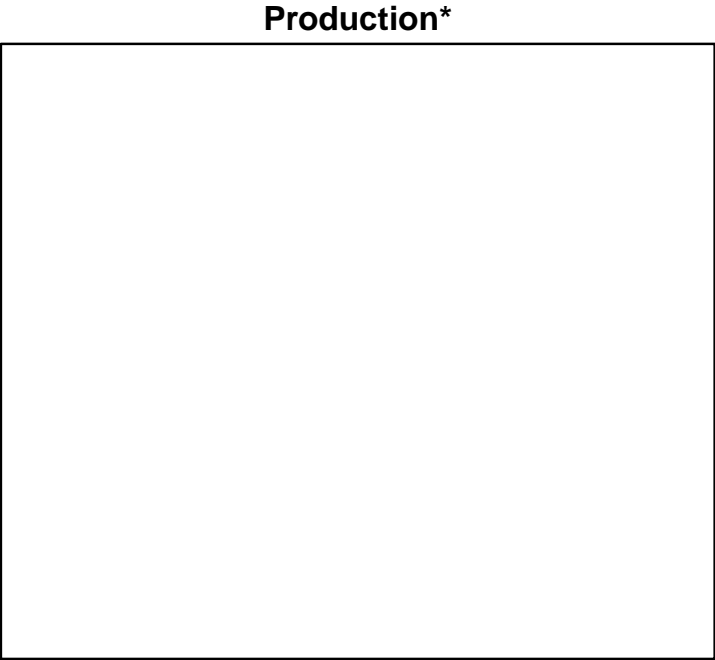
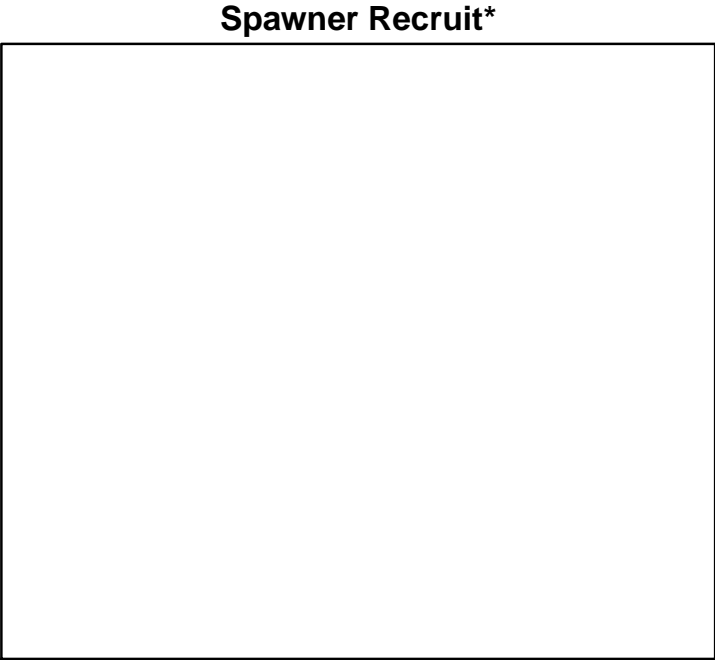
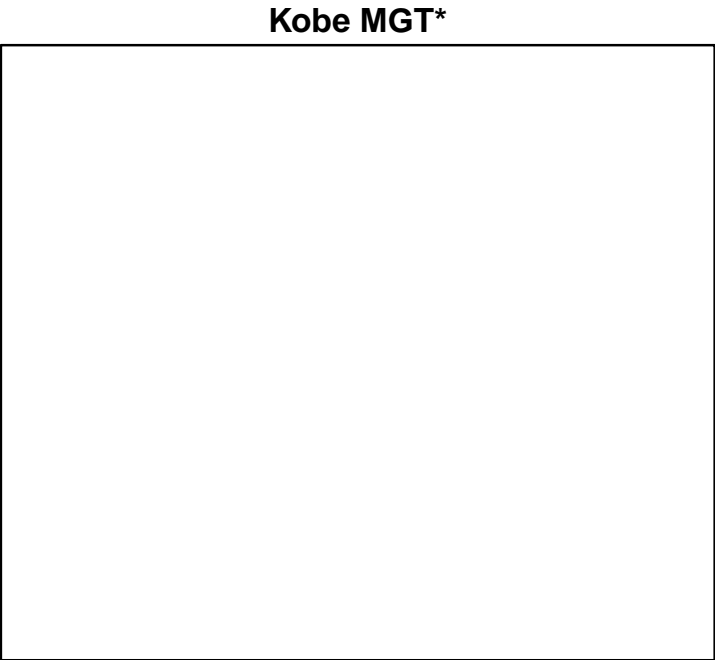
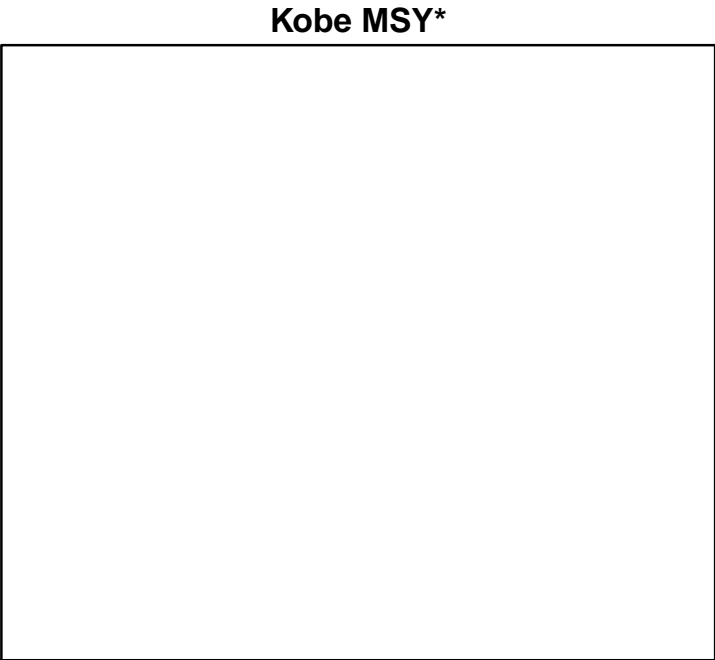


Norway pout West of Scotland [NPOUTVIa]

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	-	-	-		



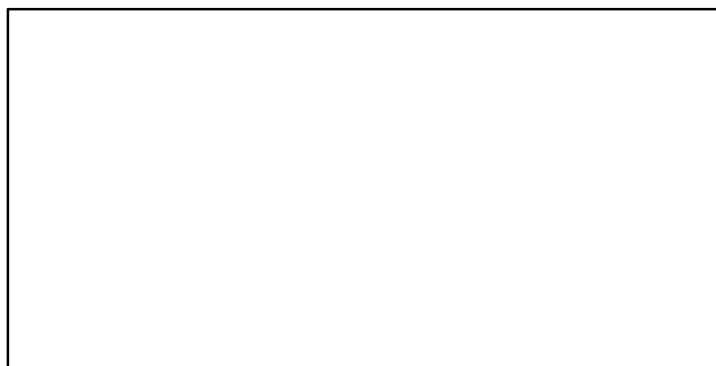
◆ Start Year ◆ End Year * No Data

Norway pout West of Scotland [NPOUTVla]

TB*



SSB*



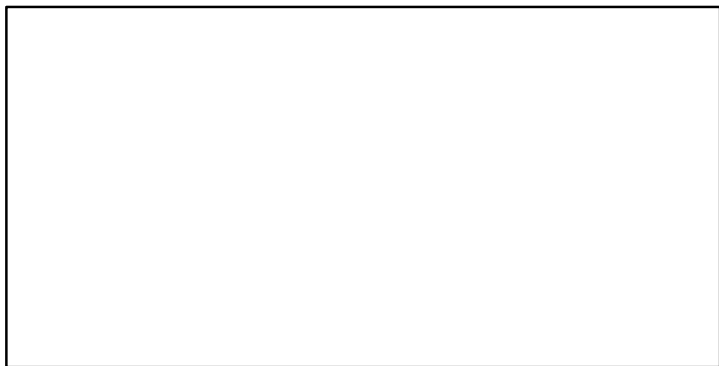
TN *



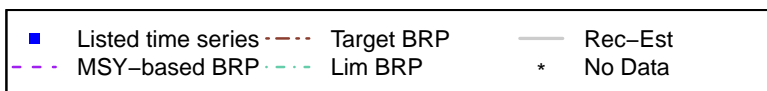
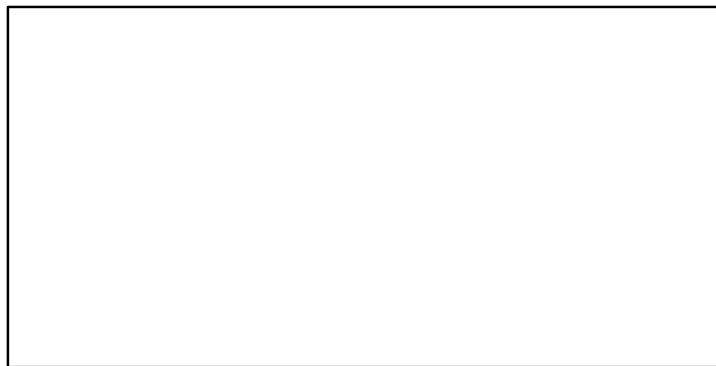
F*



ER*



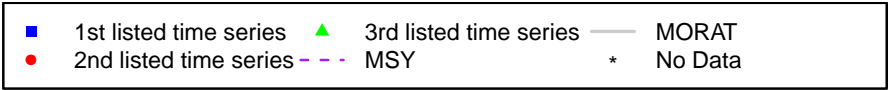
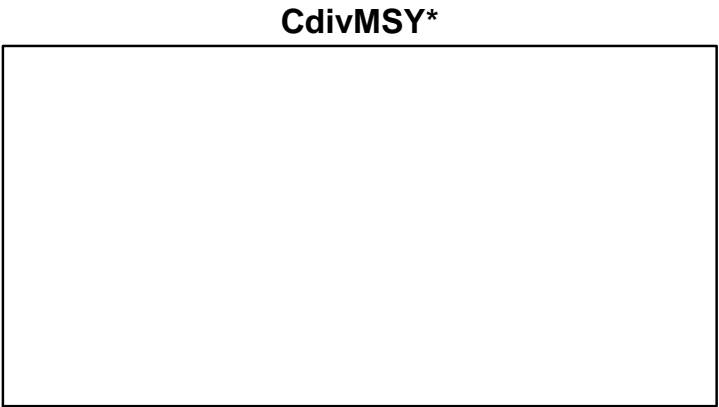
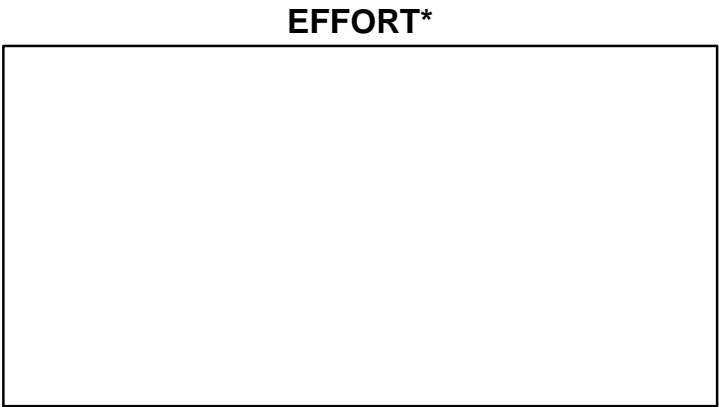
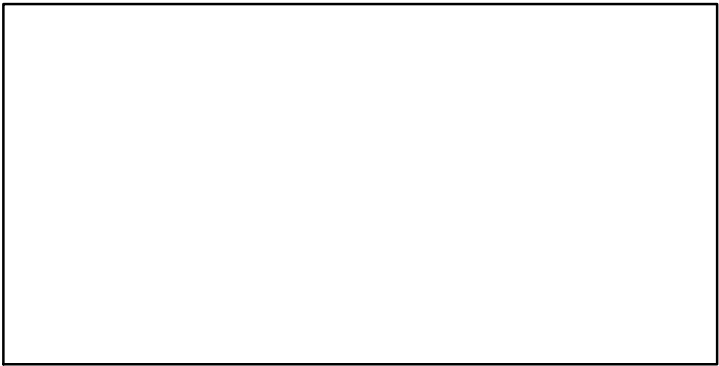
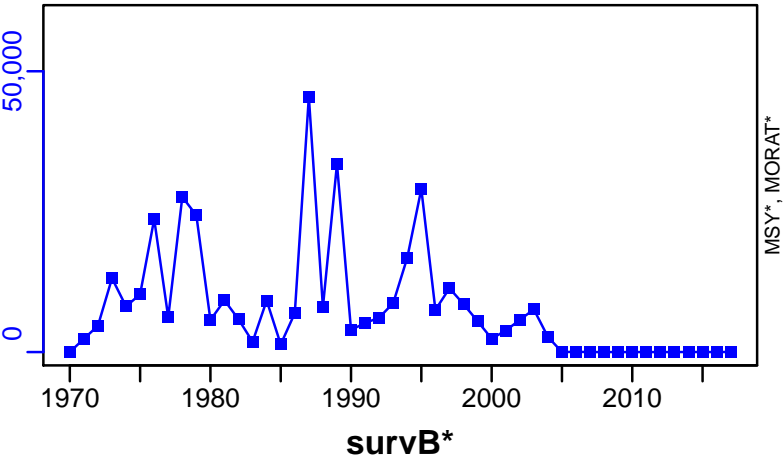
Recruits*



Norway pout West of Scotland [NPOUTVla]

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

TAC*, Cpair*, Cadv*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

Metadata	
Scientific Name	Hoplostethus atlanticus
Current Assess ID	WGDEEP-OROUGHYNEATL-1988-2016-ICESIMP2016
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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	48		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Orange roughy Northeast Atlantic [OROUGHYNEATL]

TB*



SSB*



TN *



F*



ER*

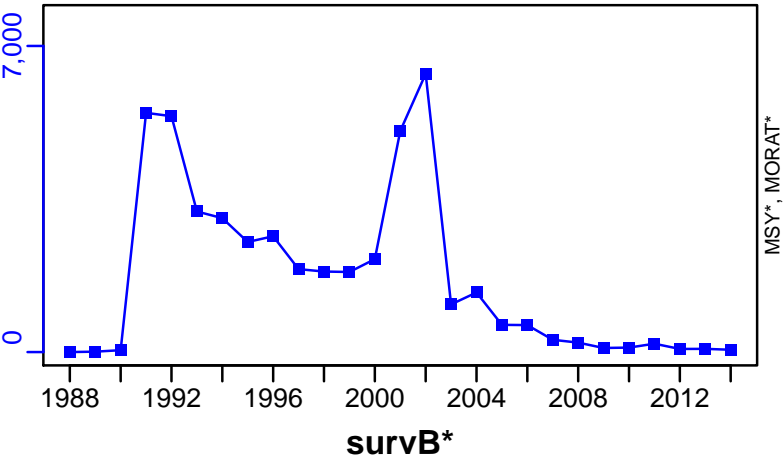


Recruits*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Northern shrimp ICES 3a(west)-4a(east) [PANDALIIIaW-IVaE]

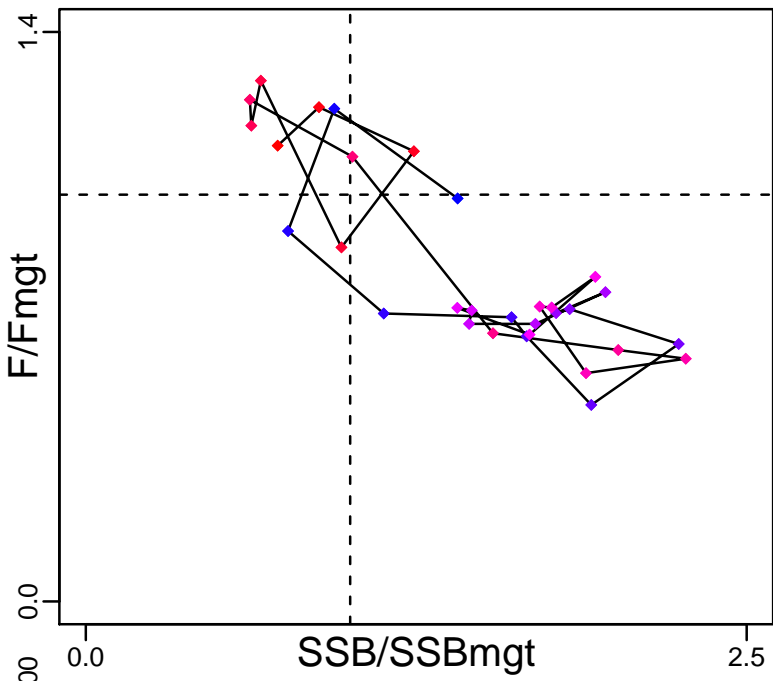
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIIIaW-IVaE-1988-2019-ICESIMP2021
Area	ICES 3a(west)-4a(east)
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.62
ERmsy	ERmsy-est-ratio	2019	0.601
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	9900
Fmgt	Fmgt-1/yr	2019	0.59
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	6300
Flim	Flim-1/yr	2015	1
ERlim	-	-	-

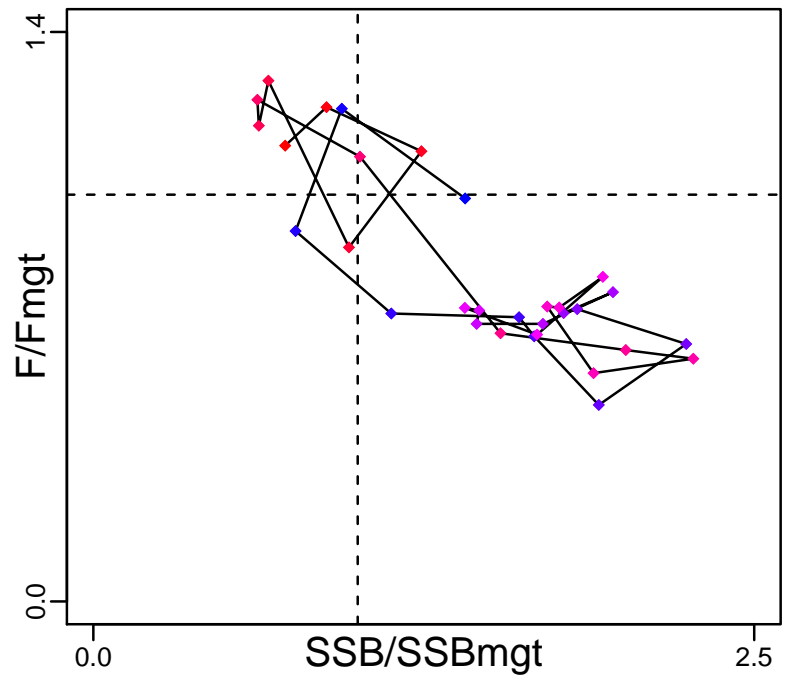
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	29,400	Both	-
SSB	SSB-MT	2019	6377	-	-
TN	-	-	-	-	-
R	R-E00	2019	7,339,340,000	-	0
F	F-1/yr	2019	0.661	-	1 to 3
ER	ER-calc-ratio	2019	0.518	-	-
TC	TC-MT	2019	8971		
TL	TL-MT	2019	8730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.1		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.016		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.861		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.644		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.12		
ER/ERmgt	-	-	-		

Northern shrimp ICES 3a(west)–4a(east) [PANDALIIIaW–IVaE]

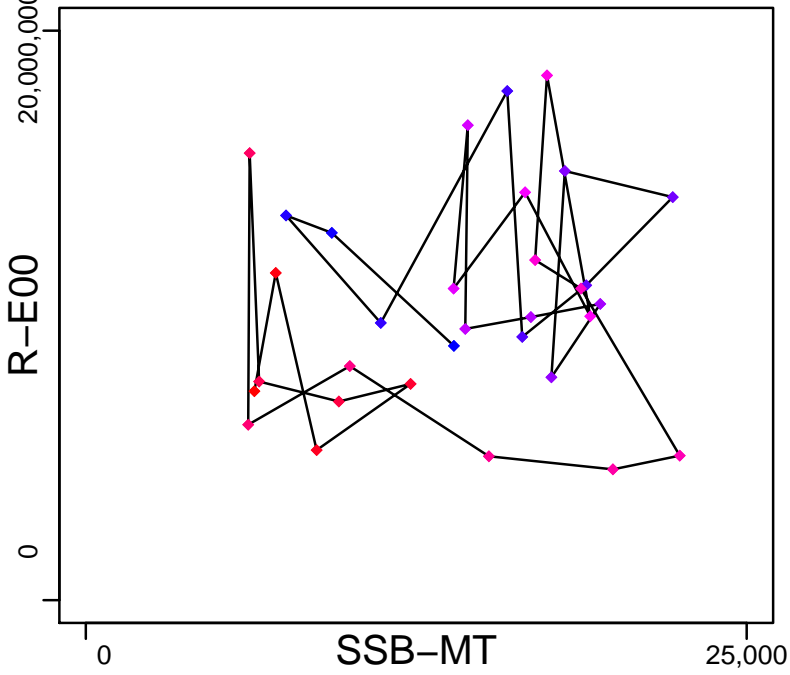
Kobe MSYpref (1988–2019–ICESIMP2021)



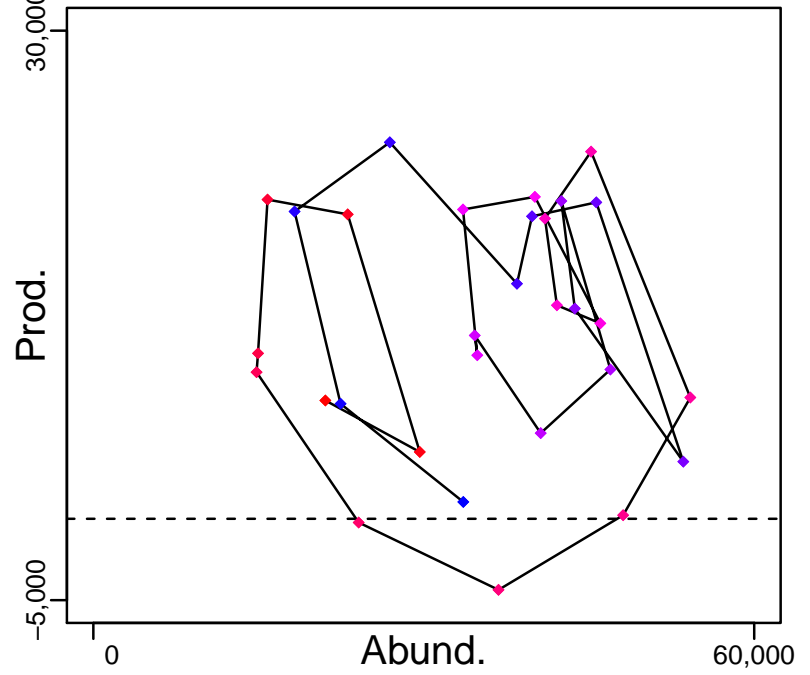
Kobe MGTpref (1988–2019–ICESIMP2021)



Spawner Recruit (1988–2019–ICESIMP2021)



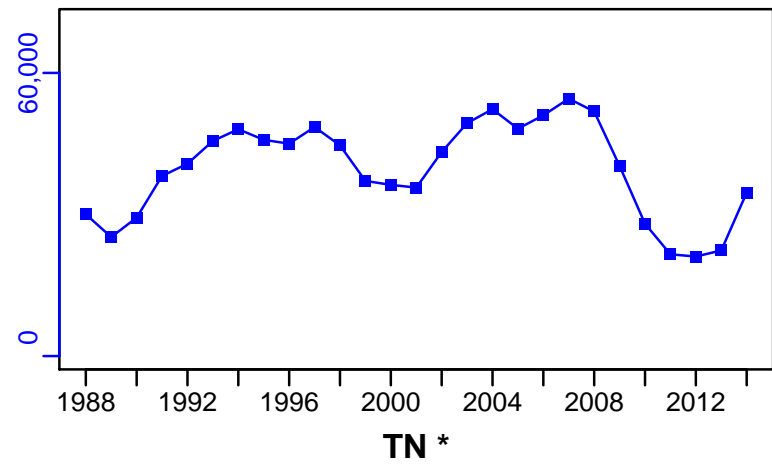
Production (1988–2019–ICESIMP2021)



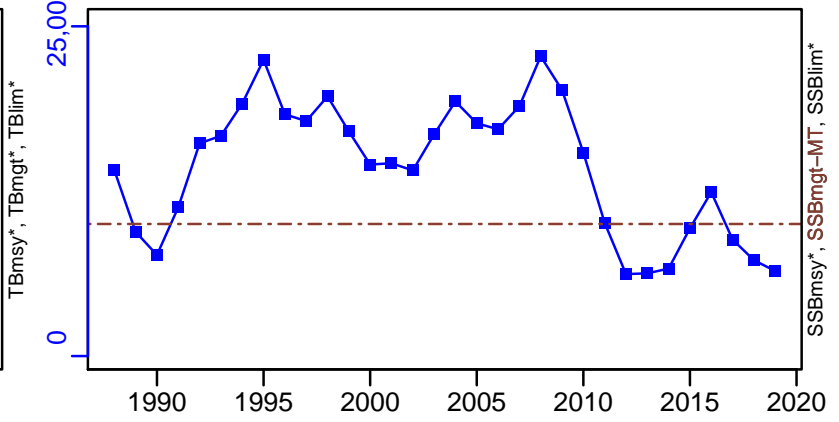
◆ Start Year ◆ End Year * No Data

Northern shrimp ICES 3a(west)–4a(east) [PANDALIIIaW–IVaE]

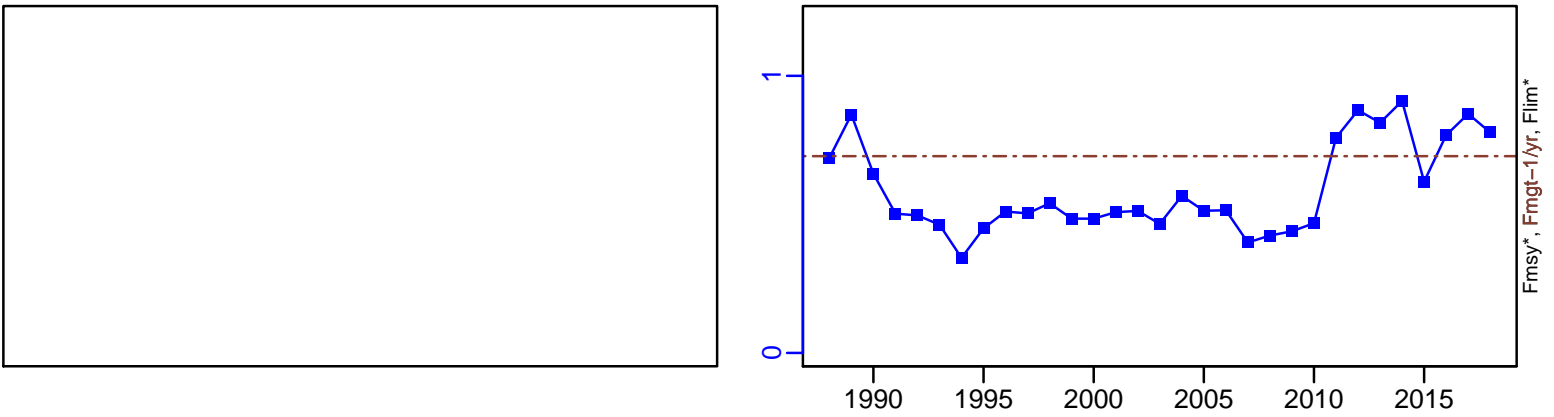
TB–MT (1988–2015–ICESIMP2016)



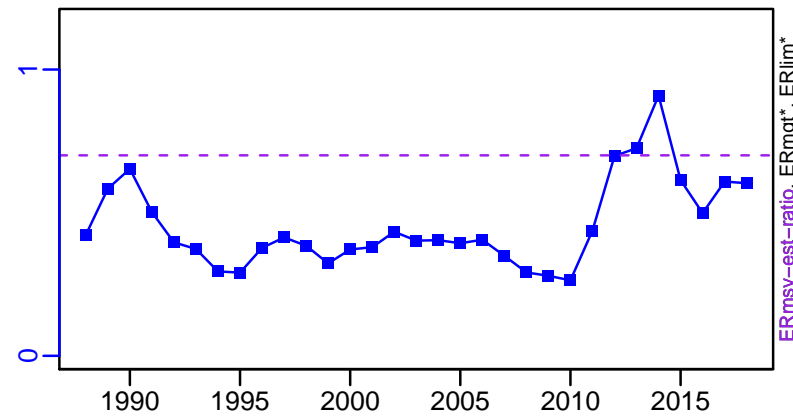
SSB–MT (1988–2019–ICESIMP2021)



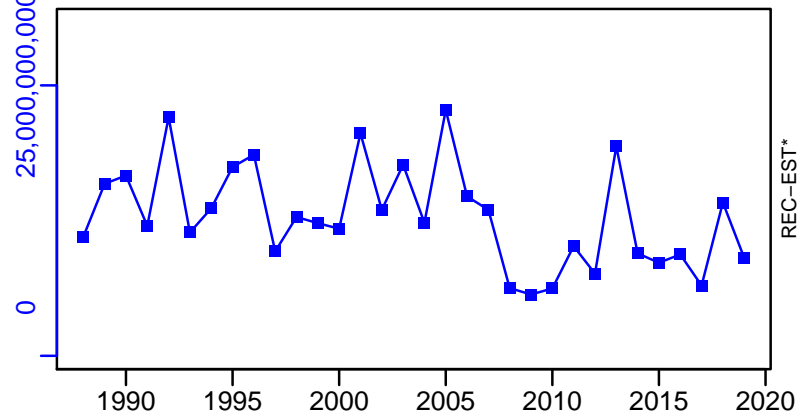
F–1/yr (1988–2019–ICESIMP2021)



ER–calc–ratio (1988–2019–ICESIMP2021)



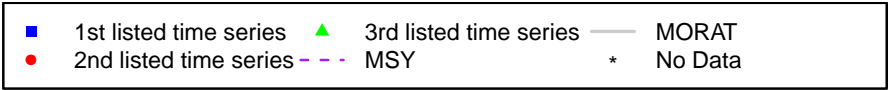
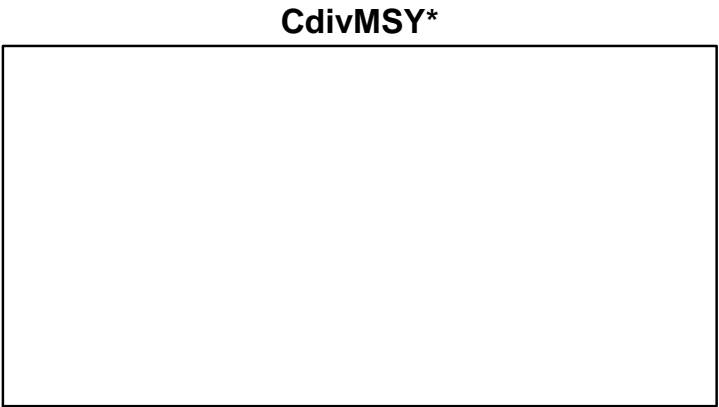
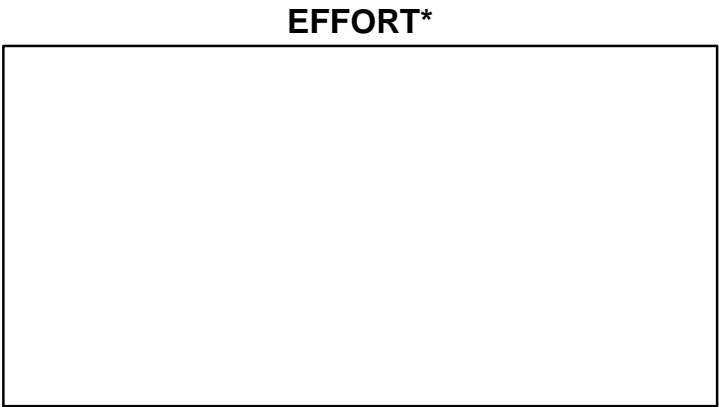
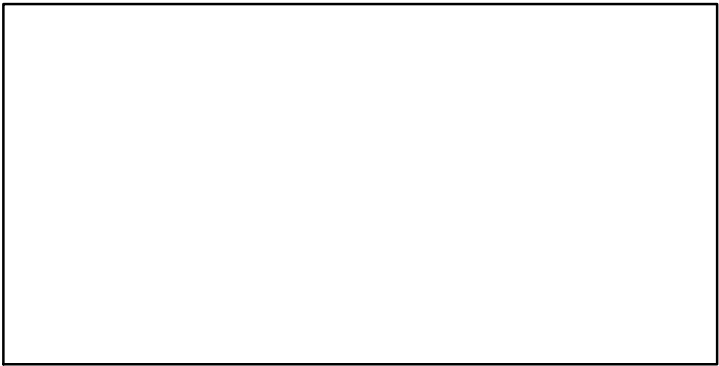
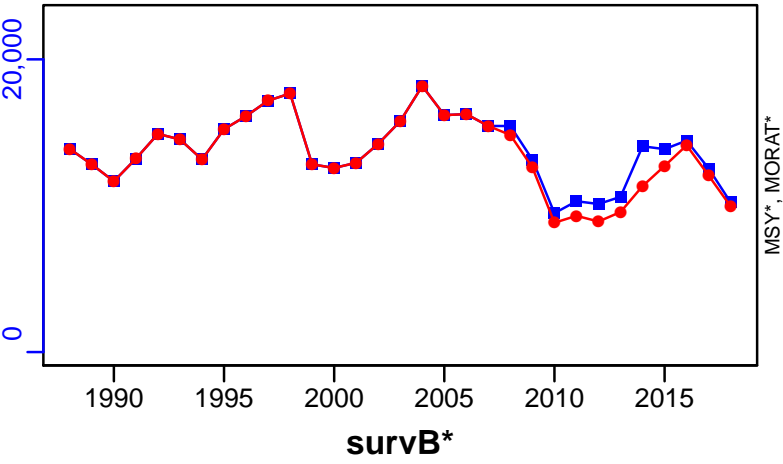
R–E00 (1988–2019–ICESIMP2021)



Northern shrimp ICES 3a(west)–4a(east) [PANDALIIIaW–IVaE]

TC–MT, TL–MT, RecC* (1988–2019–ICESIMP2021)

TAC*, Cpair*, Cadv*



Northern shrimp Northern North Sea [PANDALIVa]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIVa-1970-2019-ICESIMP2021
Area	Northern North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
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	1.4		
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*

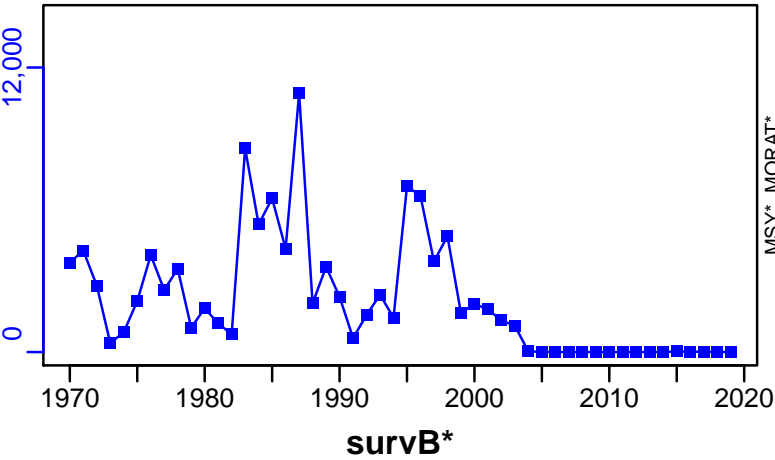


Recruits*



Northern shrimp Northern North Sea [PANDALIVa]

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



TAC*, Cpair*, Cadv*



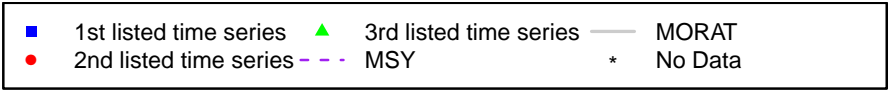
CPUE*



EFFORT*



CdivMSY*



European plaice Subdivisions 21-23 [PLAIC2123]

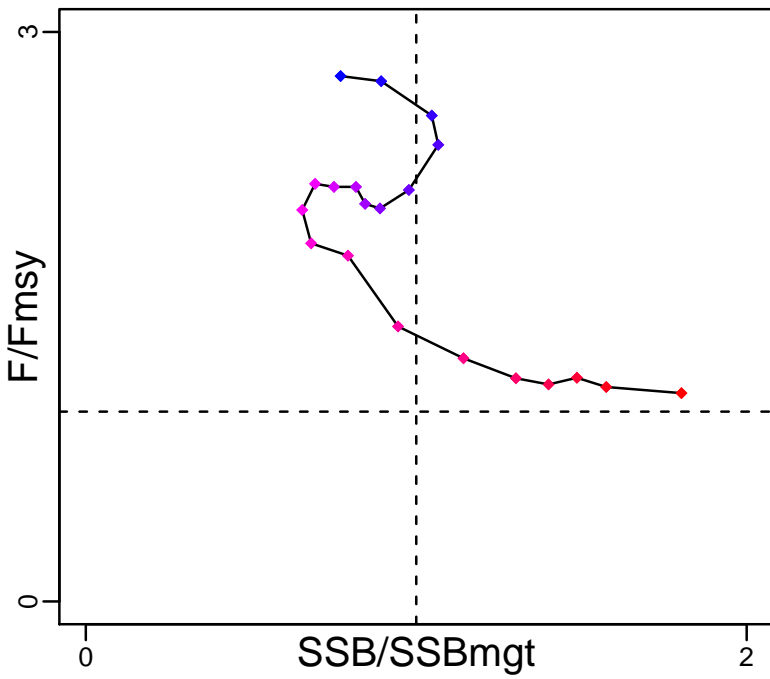
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2123-1998-2019-ICESIMP2021
Area	Subdivisions 21-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.37
ERmsy	ERmsy-est-ratio	2019	0.407
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	5550
Fmgt	Fmgt-1/yr	2019	0.37
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4077
Flim	Flim-1/yr	2018	1.01
ERlim	-	-	-

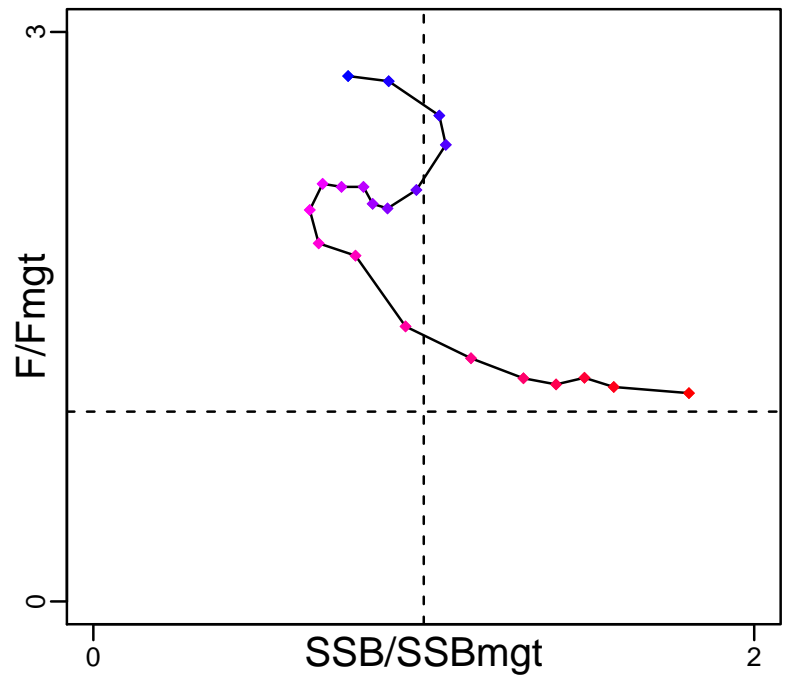
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	14,245	-	-
SSB	SSB-MT	2019	11,907	-	-
TN	-	-	-	-	-
R	R-E00	2019	29,103	-	1
F	F-1/yr	2019	0.406	-	3 to 5
ER	ER-calc-ratio	2019	0.243	-	-
TC	TC-MT	2018	4240		
TL	TL-MT	2019	3459		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.097		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.597		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.145		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.097		
ER/ERmgt	-	-	-		

European plaice Subdivisions 21–23 [PLAIC2123]

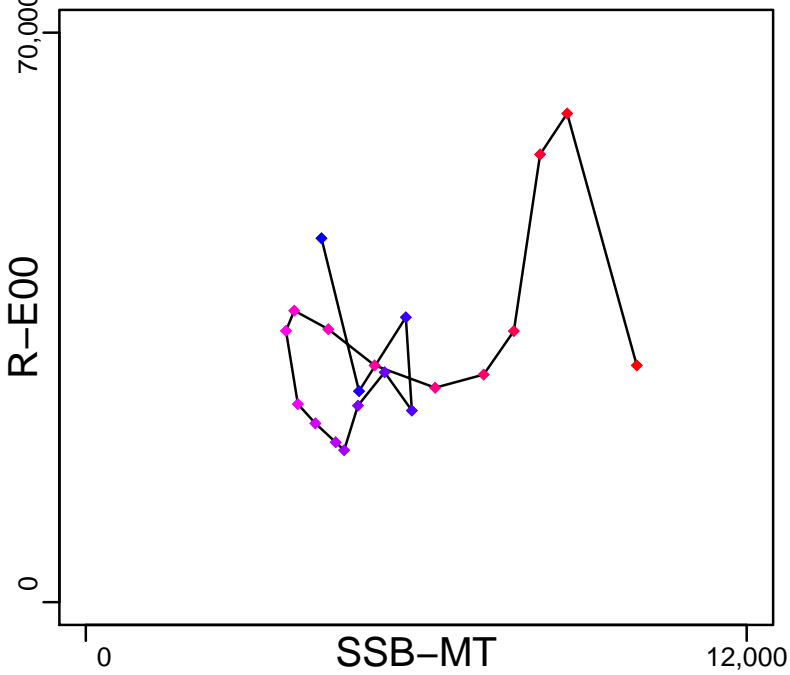
Kobe MSYpref (1998–2019–ICESIMP2021)



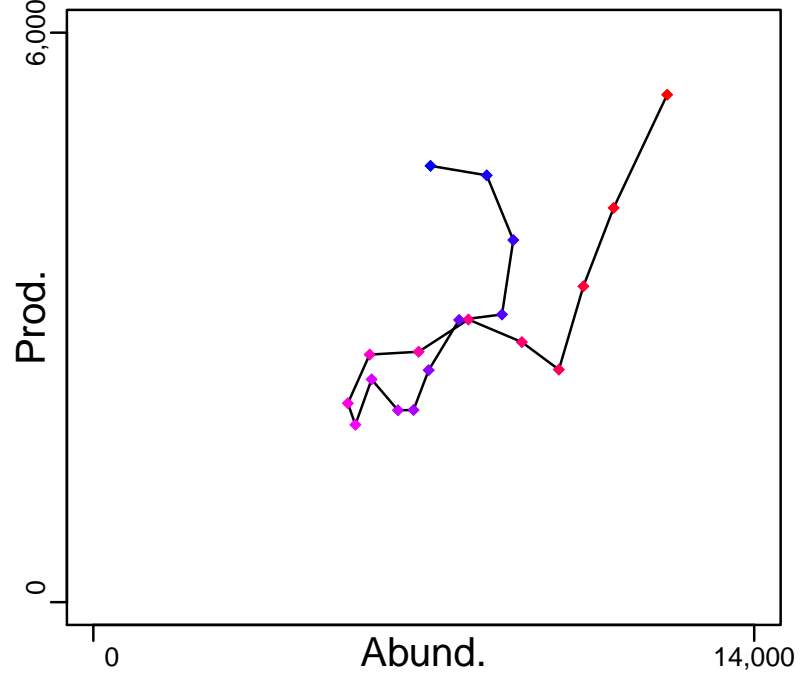
Kobe MGTpref (1998–2019–ICESIMP2021)



Spawner Recruit (1998–2019–ICESIMP2021)



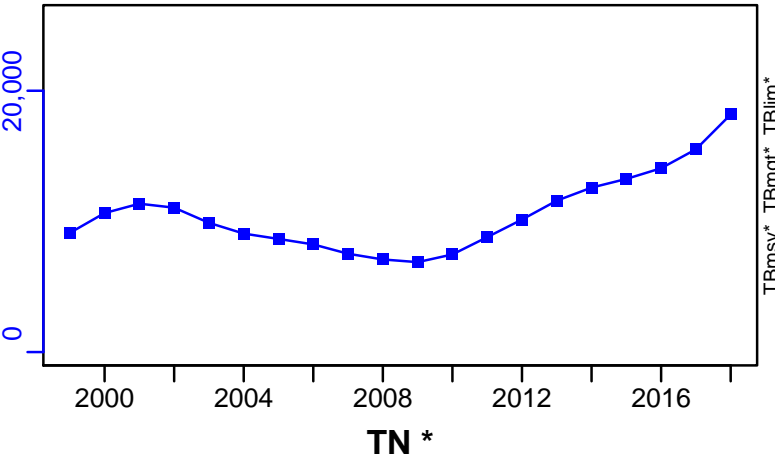
Production (1998–2019–ICESIMP2021)



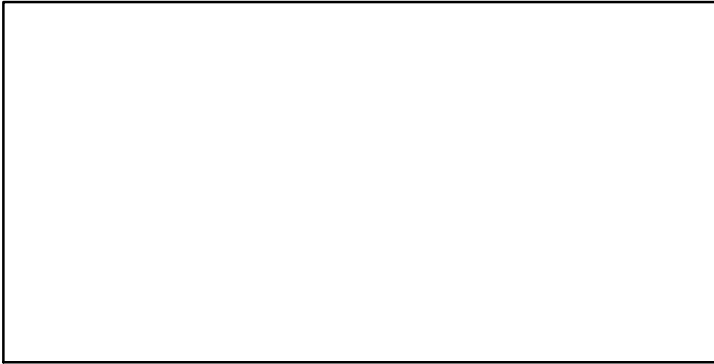
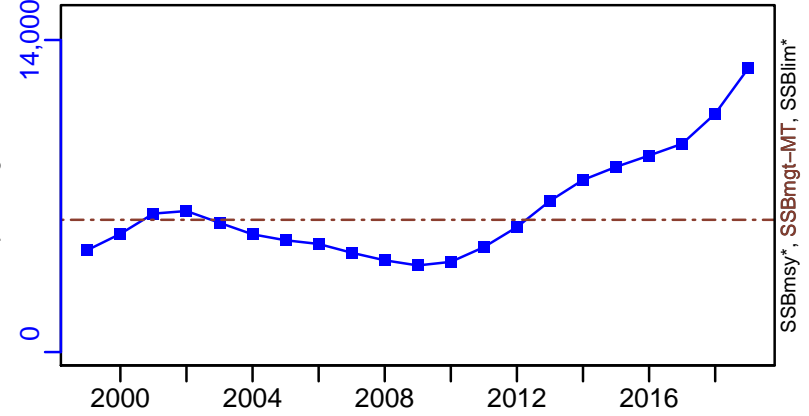
◆ Start Year ◆ End Year * No Data

European plaice Subdivisions 21–23 [PLAIC2123]

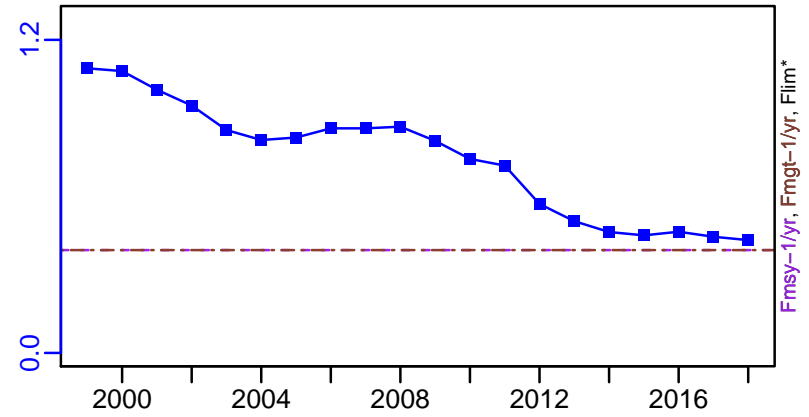
TB-MT (1998–2019–ICESIMP2021)



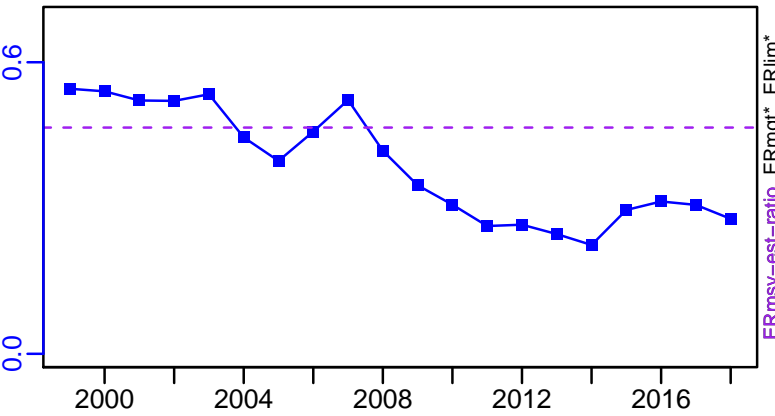
SSB-MT (1998–2019–ICESIMP2021)



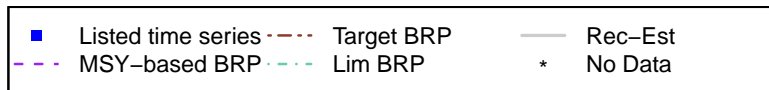
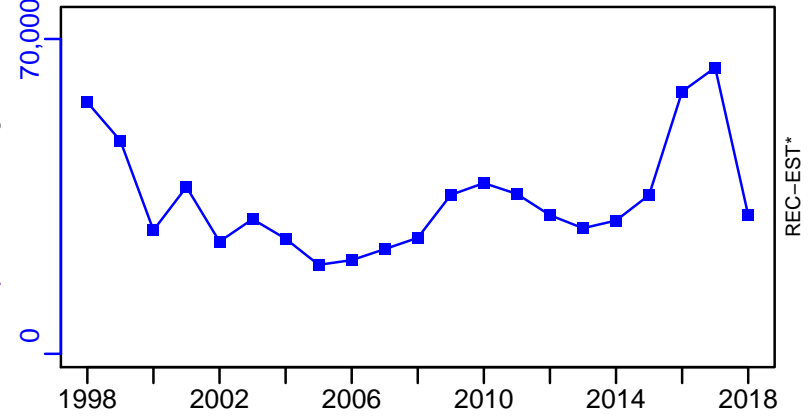
F-1/yr (1998–2019–ICESIMP2021)



ER-calc-ratio (1998–2019–ICESIMP2021)

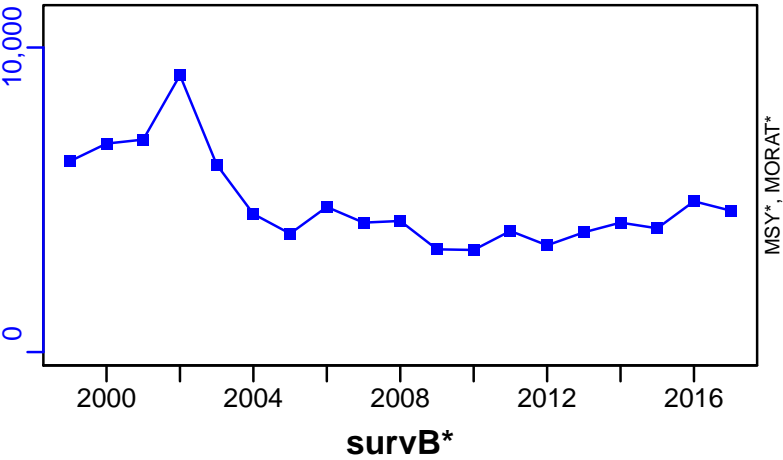


R-E00 (1998–2019–ICESIMP2021)



European plaice Subdivisions 21–23 [PLAIC2123]

TC–MT, TL*, RecC* (1998–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



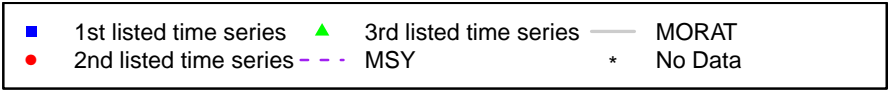
CPUE*



EFFORT*



CdivMSY*



European plaice Subdivisions 24-32 [PLAIC2432]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2432-2001-2019-ICESIMP2021
Area	Subdivisions 24-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2015, 2016, 2017, 2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2019	3.224	-	-
SSB	SSB-relative	2019	3.579	-	-
TN	-	-	-	-	-
R	R-relative	2019	2.562	-	1
F	F-relative	2019	0.541	-	2 to 5
ER	-	-	-	-	-
TC	TC-MT	2019	2355		
TL	TL-MT	2019	1644		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

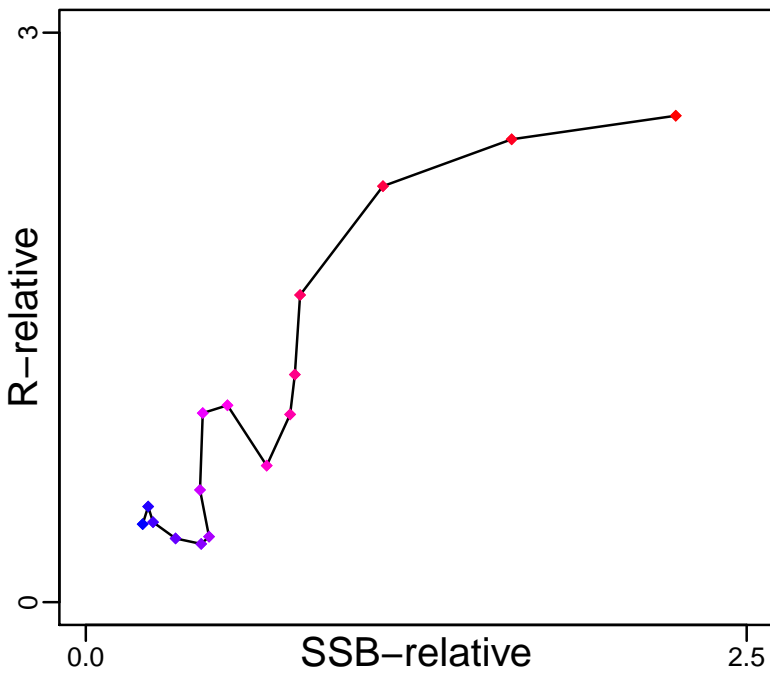
Kobe MSY*



Kobe MGT*



Spawner Recruit (2001–2019–ICESIMP2021)



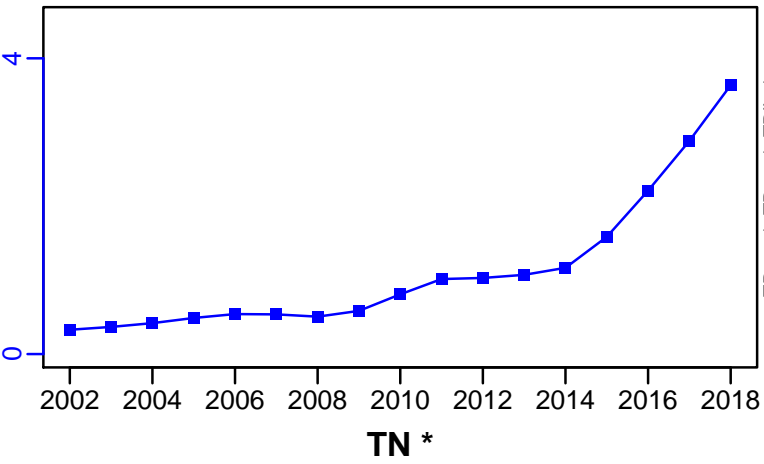
Production*



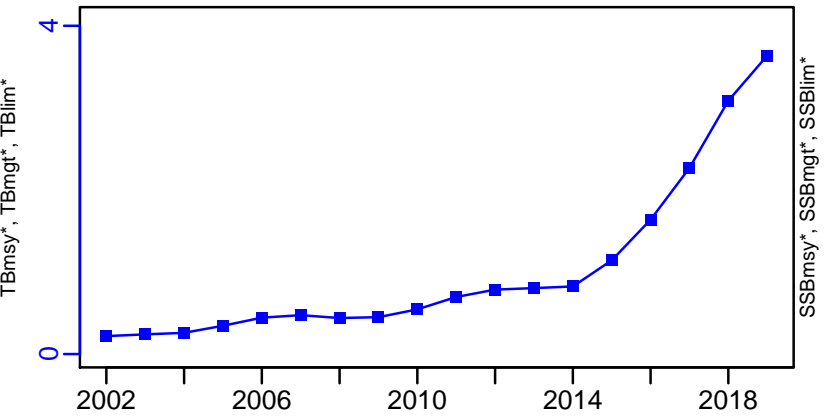
◆ Start Year ◆ End Year * No Data

European plaice Subdivisions 24–32 [PLAIC2432]

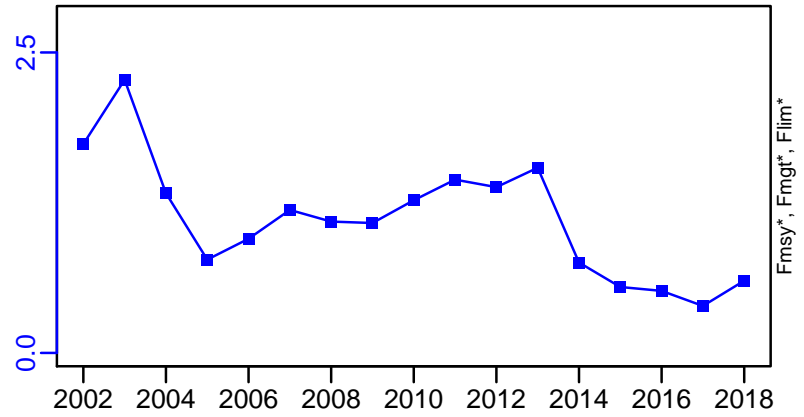
TB-relative (2001–2019–ICESIMP2021)



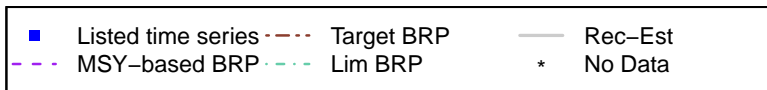
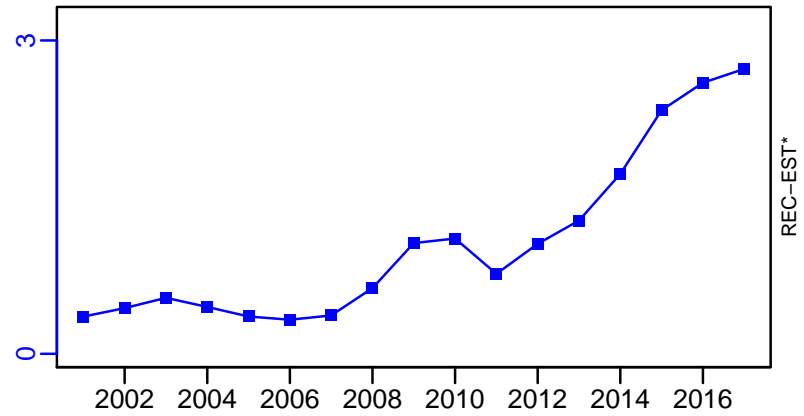
SSB-relative (2001–2019–ICESIMP2021)



F-relative (2001–2019–ICESIMP2021)

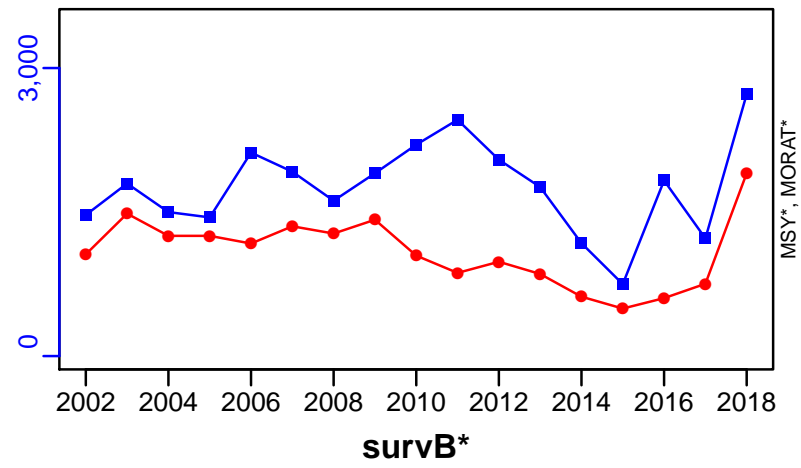


R-relative (2001–2019–ICESIMP2021)



European plaice Subdivisions 24–32 [PLAIC2432]

TC–MT, TL–MT, RecC* (2001–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



European plaice Eastern English Channel [PLAIC7d]

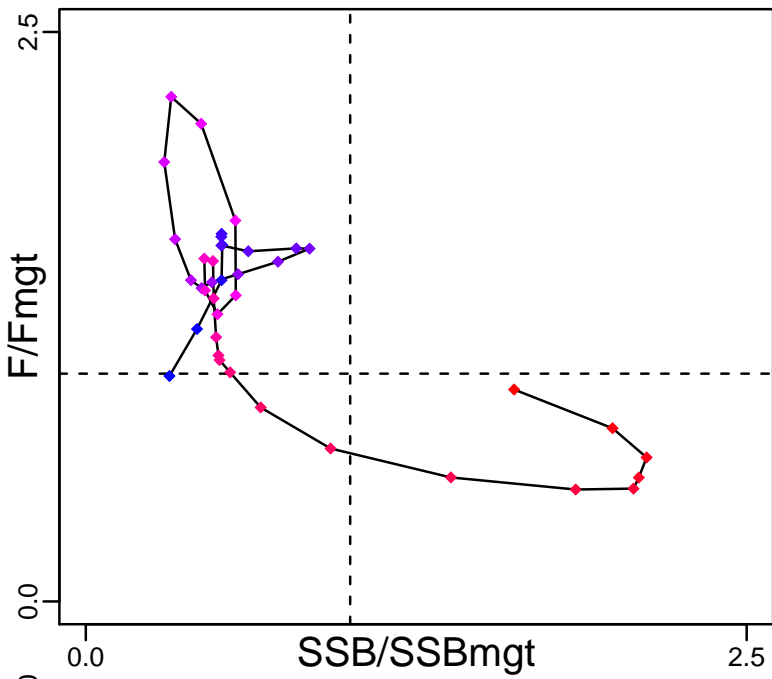
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAIC7d-1979-2019-ICESIMP2021
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	15,149
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.25
ERmsy	ERmsy-est-ratio	2019	0.377
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	25,826
Fmgt	Fmgt-1/yr	2019	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	4969
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	18,448
Flim	Flim-1/yr	2018	0.5
ERlim	-	-	-

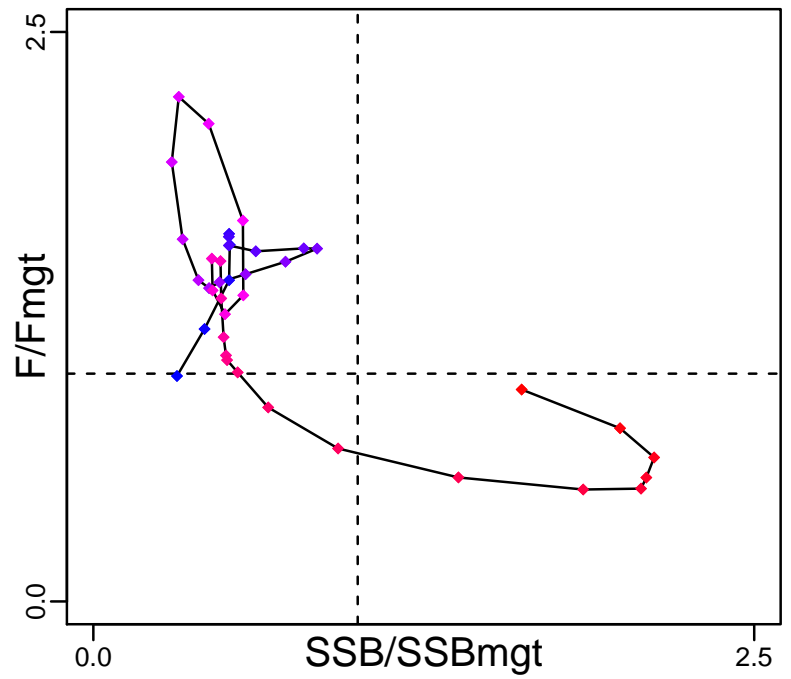
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	9230	Both	1+
SSB	SSB-MT	2019	41,483	-	-
TN	-	-	-	-	-
R	R-E00	2019	125,133,500	-	1
F	F-1/yr	2019	0.233	-	3 to 6
ER	ER-calc-ratio	2019	0.115	-	-
TC	TC-MT	2019	6826		
TL	TL-MT	2019	3980		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.609		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.804		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.306		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.606		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.93		
ER/ERmgt	-	-	-		

European plaice Eastern English Channel [PLAIC7d]

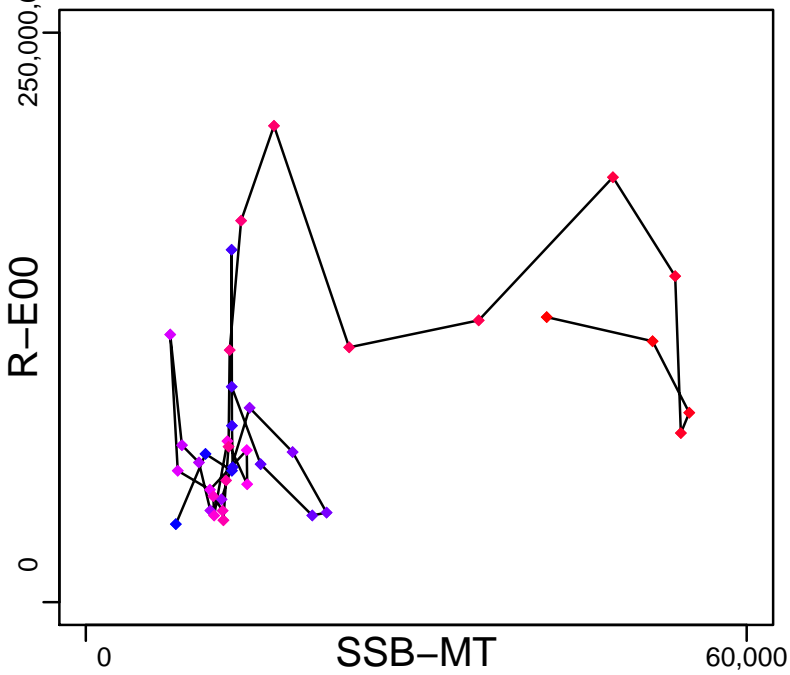
Kobe MSYpref (1979–2019–ICESIMP2021)



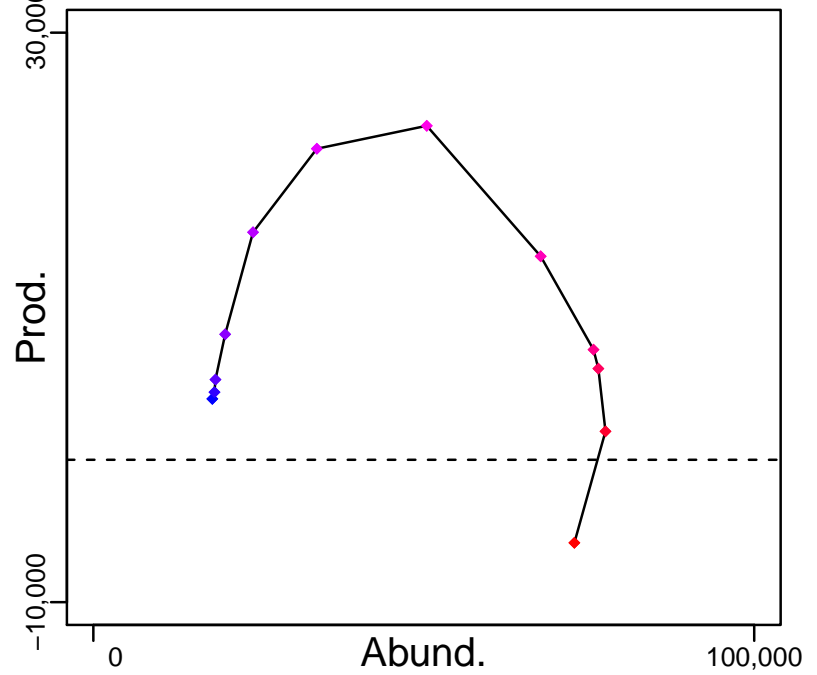
Kobe MGTpref (1979–2019–ICESIMP2021)



Spawner Recruit (1979–2019–ICESIMP2021)



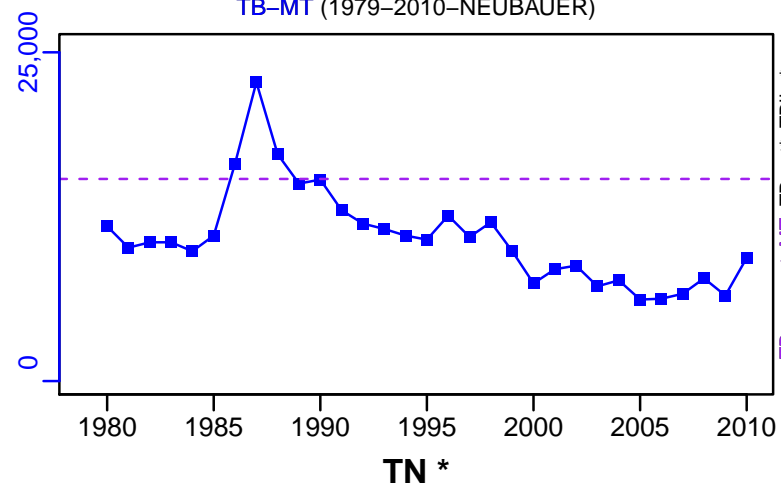
Production (1979–2019–ICESIMP2021)



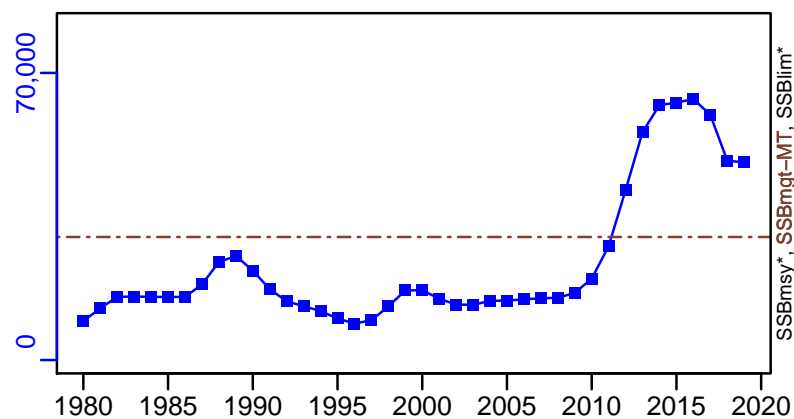
◆ Start Year ◆ End Year * No Data

European plaice Eastern English Channel [PLAIC7d]

TB-MT (1979–2010–NEUBAUER)



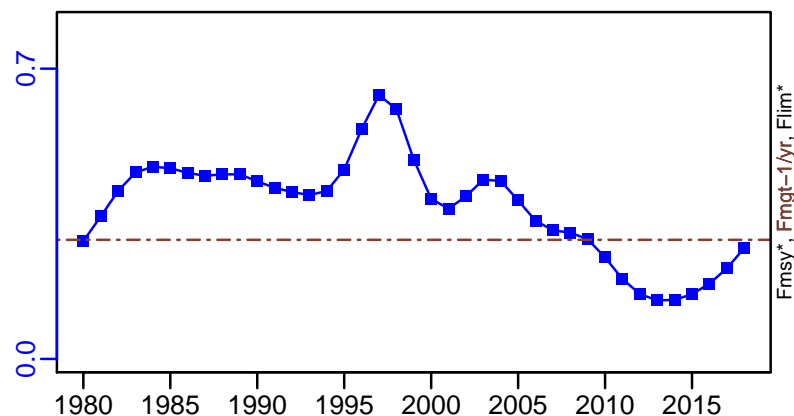
SSB-MT (1979–2019–ICESIMP2021)



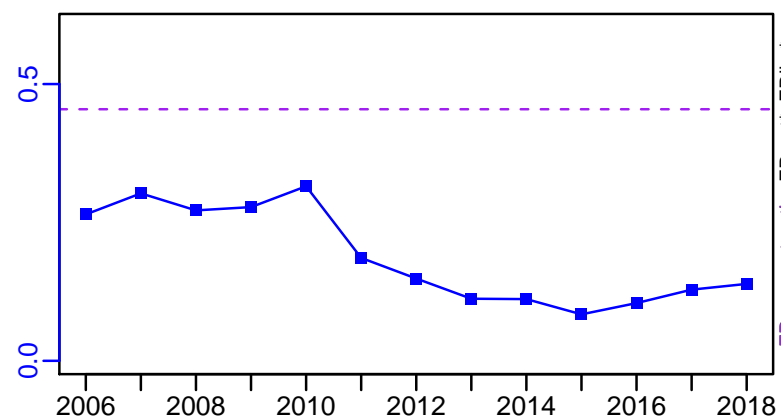
TN *



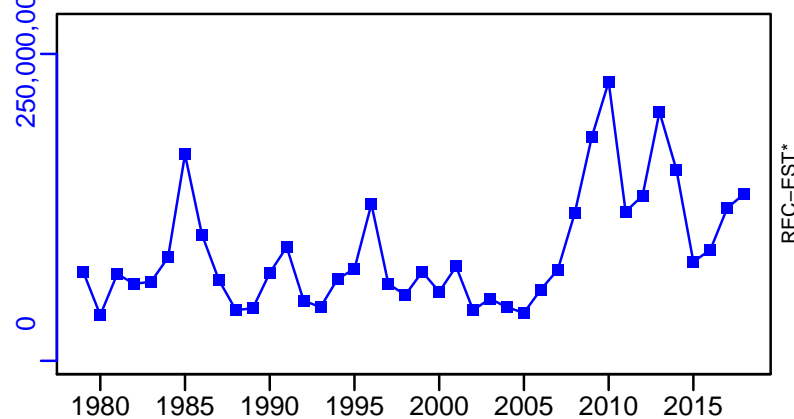
F-1/yr (1979–2019–ICESIMP2021)



ER-calc-ratio (1979–2019–ICESIMP2021)

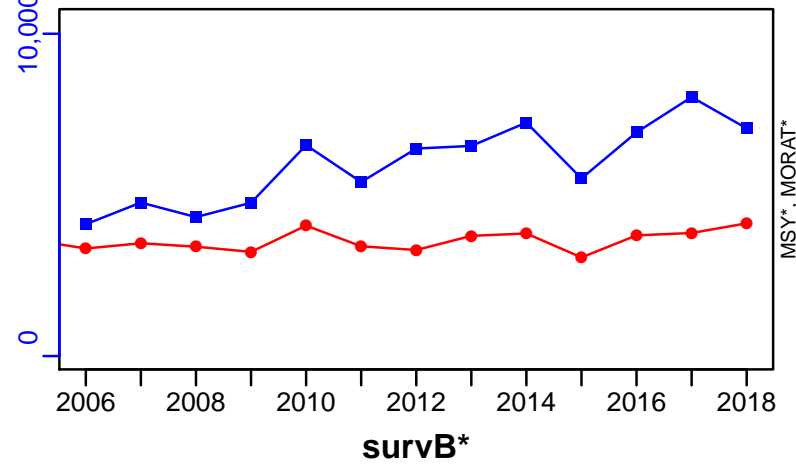


R-E00 (1979–2019–ICESIMP2021)



European plaice Eastern English Channel [PLAIC7d]

TC-MT, TL-MT, RecC* (1979-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



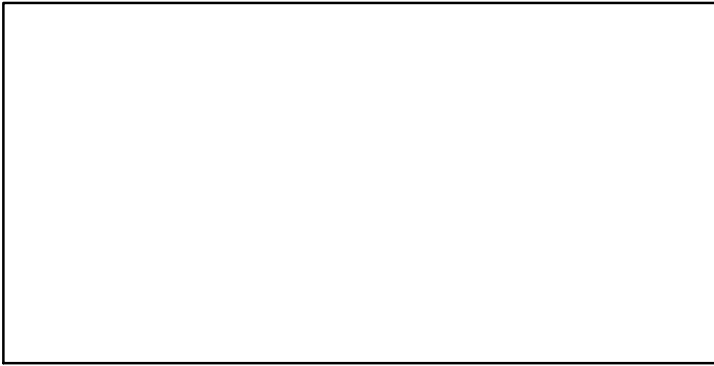
survB*



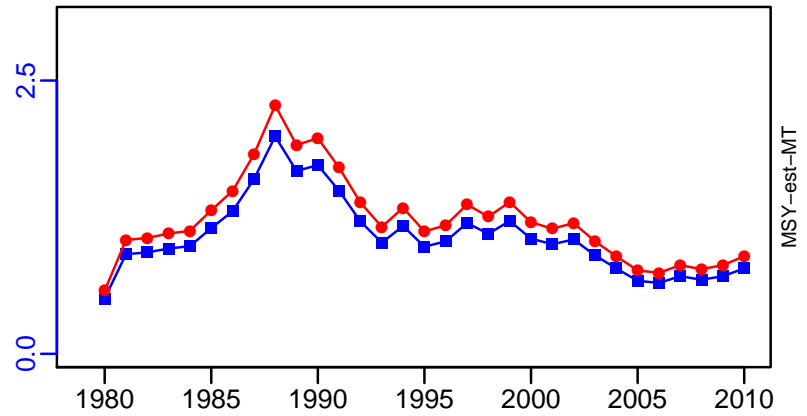
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1979-2010-NEUBAUER)



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

European plaice Celtic Sea [PLAICCELT]

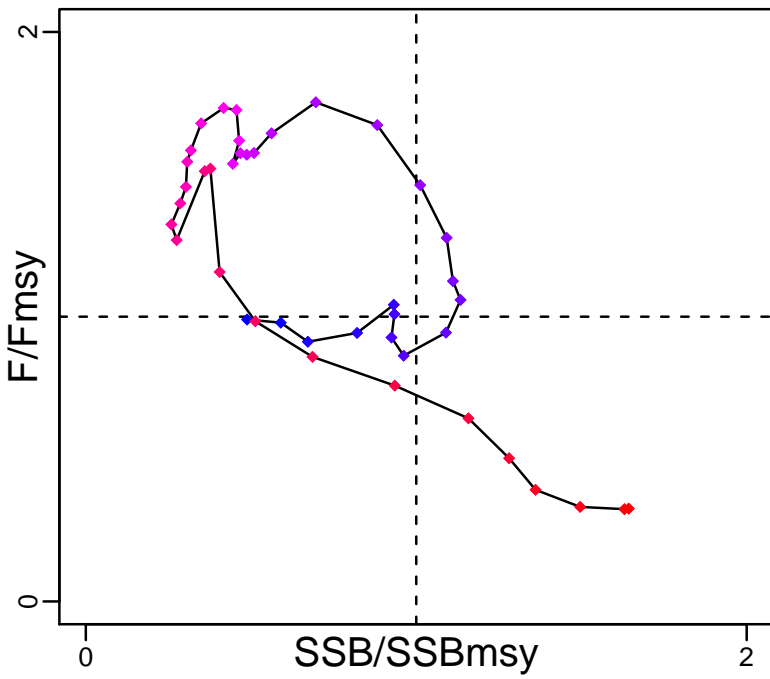
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICCELT-1977-2019-ICESIMP2021
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2017, 2019, 2016, 2014, 2016, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2019	5008
SSBmsy	SSBmsy-est-MT	2010	2347
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.457
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	2287
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

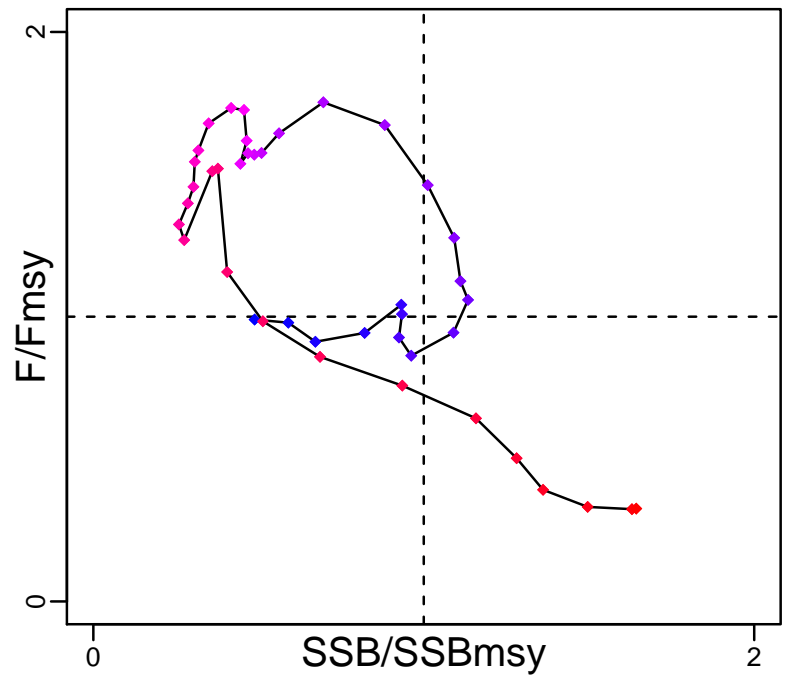
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	7515	-	-
SSB	SSB-relative	2014	1.33	Both	-
TN	-	-	-	-	-
R	R-relative	2014	0.393	-	1
F	F-relative	2014	1.29	-	3 to 6
ER	ER-calc-ratio	2019	0.117	-	-
TC	TC-MT	2019	930		
TL	TL-MT	2019	422		
TB/TBmsy	TB-MT/TBmsy-est-MT	2019	1.501		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	1.551		
F/Fmsy	FdivFmsy-dimensionless	2019	0.326		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.256		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European plaice Celtic Sea [PLAICCELT]

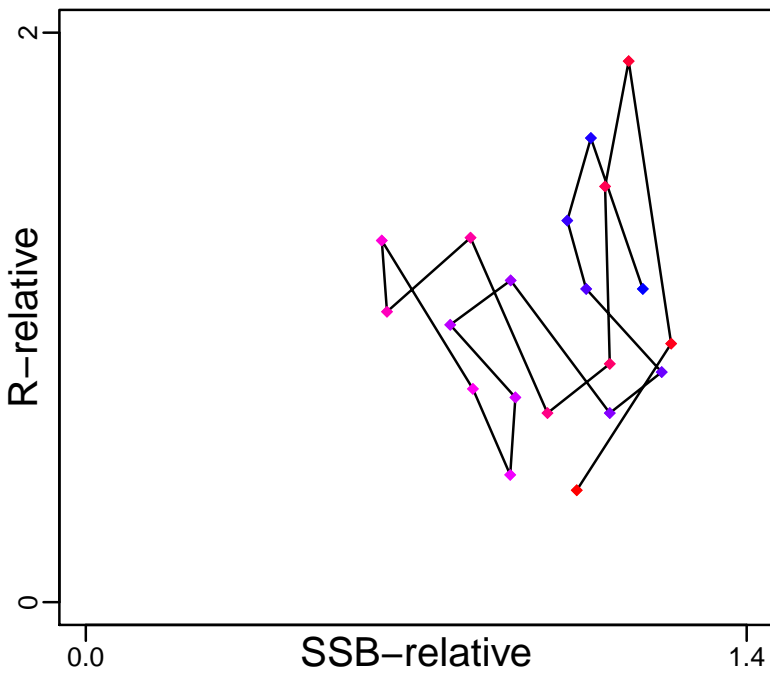
Kobe MSYpref (1977–2019–ICESIMP2021)



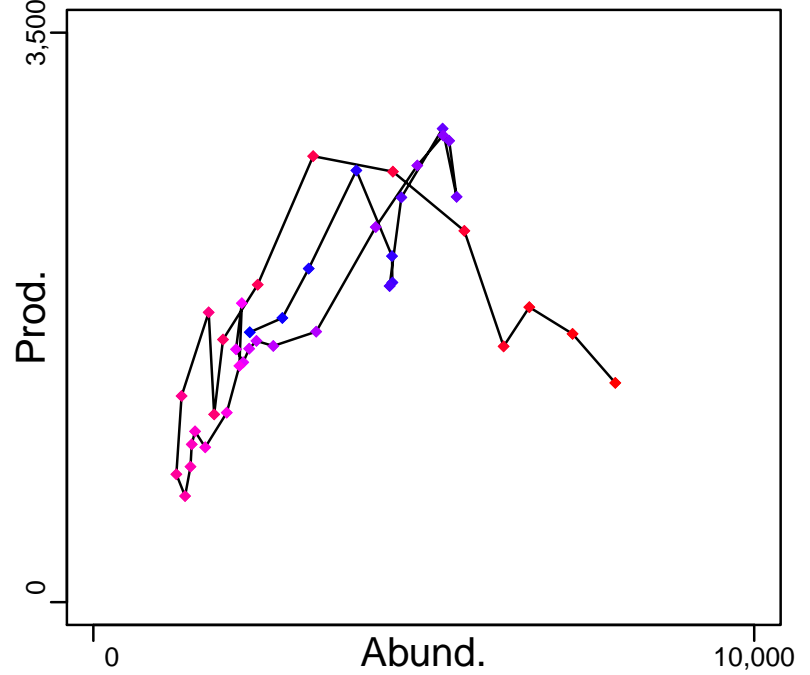
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1992–2014–ICESIMP2016)



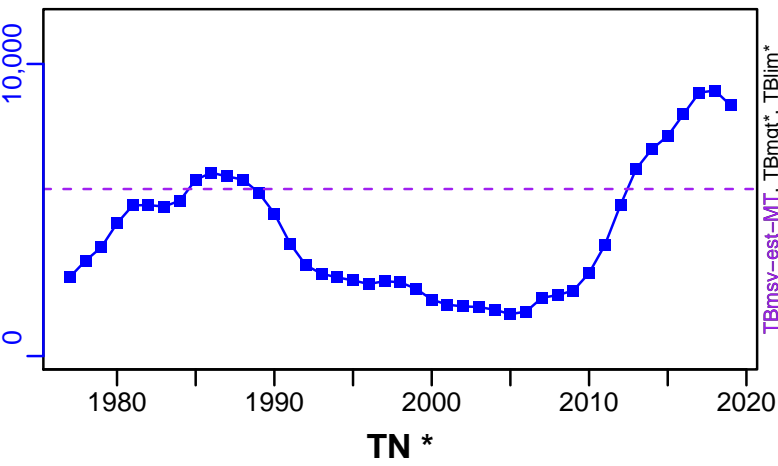
Production (1977–2019–ICESIMP2021)



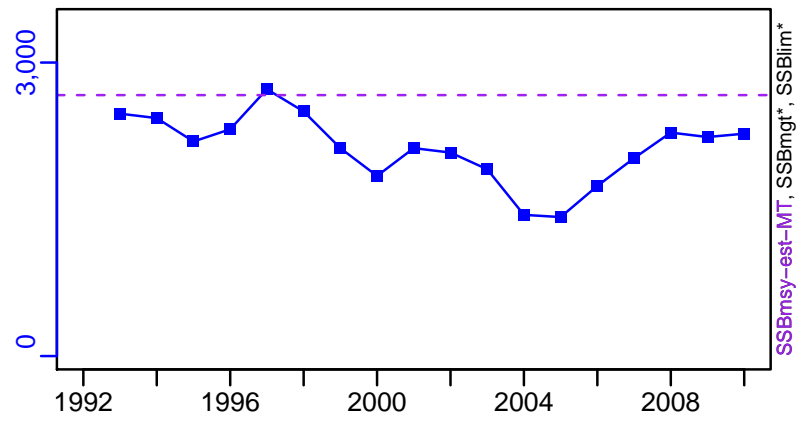
◆ Start Year ◆ End Year * No Data

European plaice Celtic Sea [PLAICCELT]

TB-MT (1977–2019–ICESIMP2021)

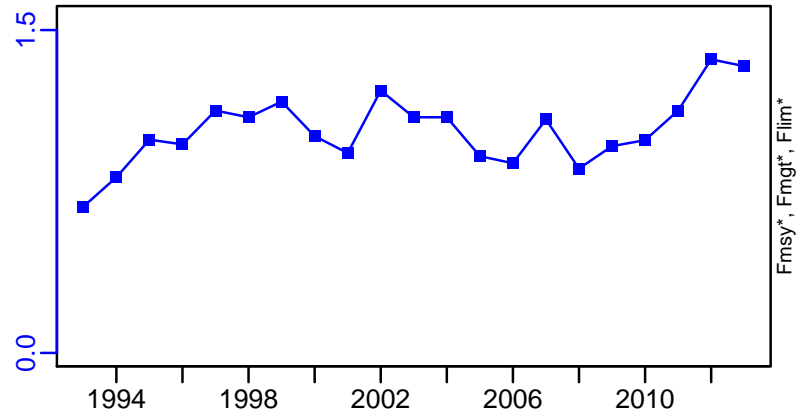


SSB-MT (1992–2010–NEUBAUER)

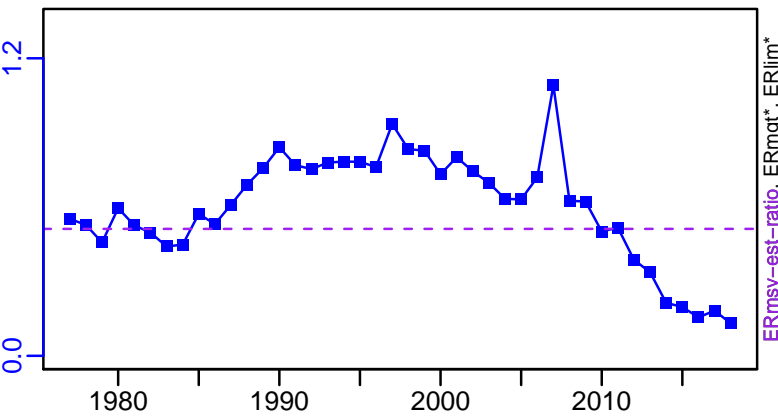


TN *

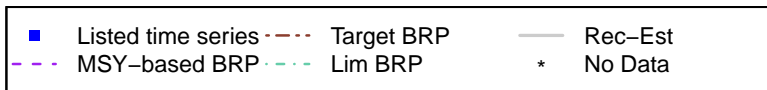
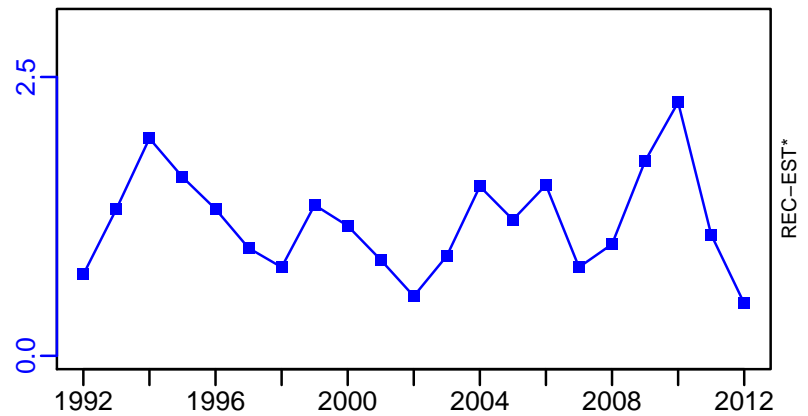
F-relative (1992–2014–ICESIMP2016)



ER-calc-ratio (1977–2019–ICESIMP2021)

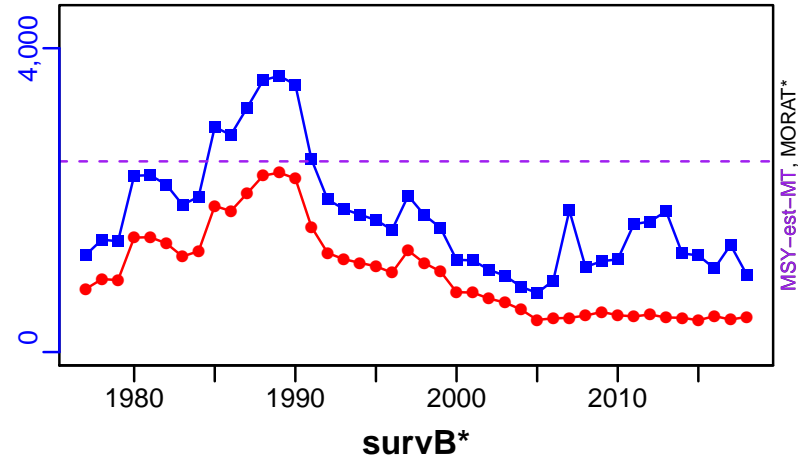


R-relative (1992–2014–ICESIMP2016)



European plaice Celtic Sea [PLAICCELT]

TC-MT, TL-MT, RecC* (1977–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



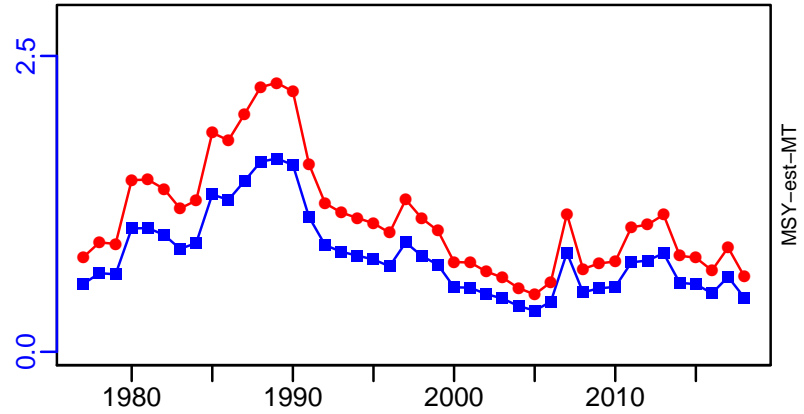
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977–2019–ICESIMP2021)



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

European plaice Western English Channel [PLAICEHW]

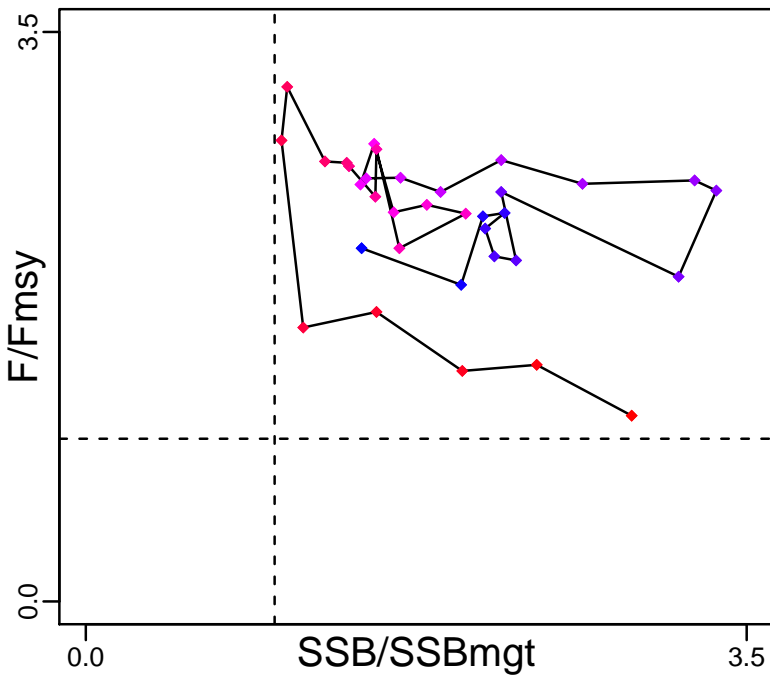
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICEHW-1978-2019-ICESIMP2021
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2016, 2018, 2019, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	7866
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2018	0.238
ERmsy	ERmsy-est-ratio	2010	0.256
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2019	0.66
Fmgt	Fmgt-relative	2019	1.268
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	2015
M	M-1/yr	2010	0.12
TBlim	TBlim-MT	2010	1300
SSBlim	-	-	-
Flim	Flim-relative	2018	0.88
ERlim	-	-	-

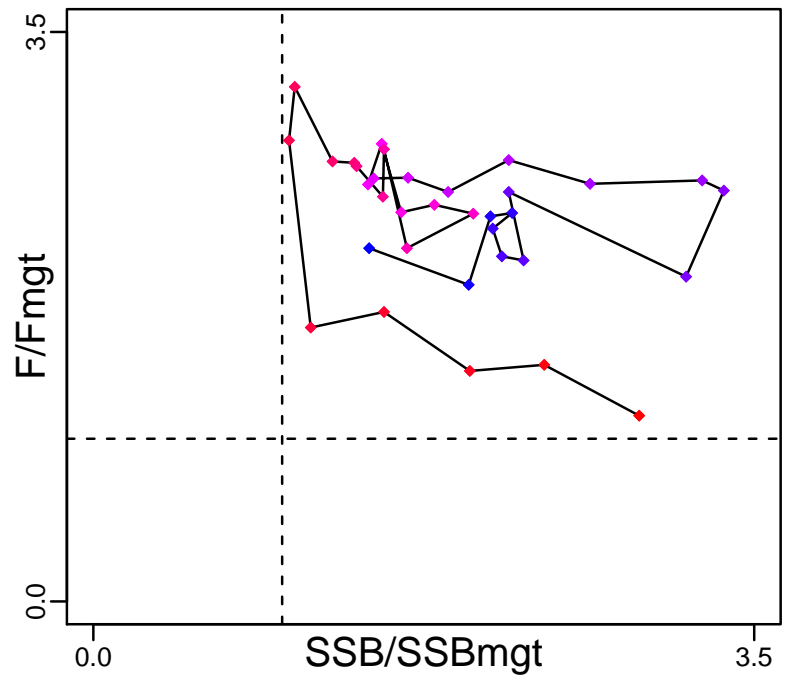
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2019	1.545	-	-
SSB	SSB-relative	2019	1.875	-	-
TN	-	-	-	-	-
R	R-relative	2019	0.901	-	2
F	F-relative	2019	0.613	-	3 to 6
ER	ER-calc-ratio	2014	0.227	-	-
TC	TC-MT	2016	2940		
TL	TL-MT	2019	1880		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.981		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	1.142		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.621		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	3.352		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.142		
ER/ERMgt	-	-	-		

European plaice Western English Channel [PLAICECHW]

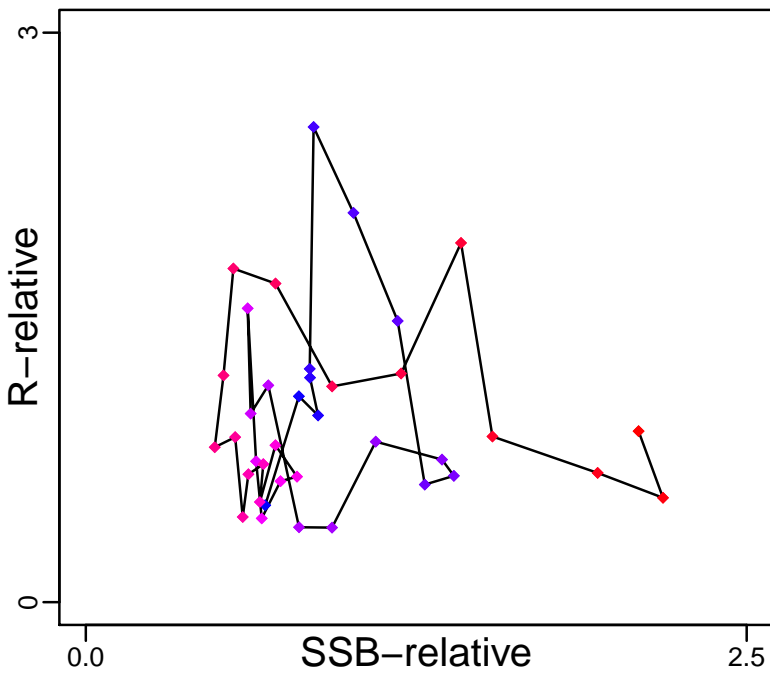
Kobe MSYpref (1979–2014–ICESIMP2016)



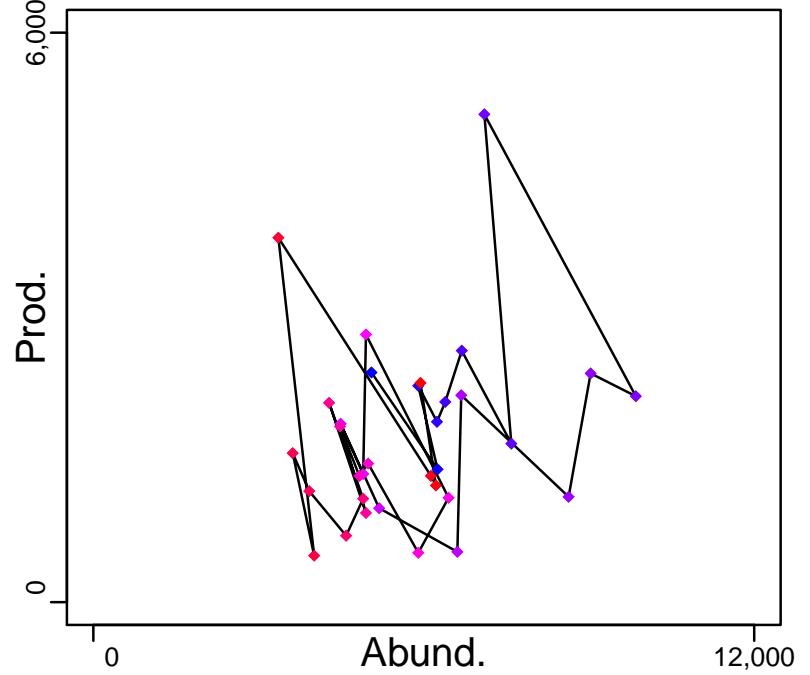
Kobe MGTpref (1979–2014–ICESIMP2016)



Spawner Recruit (1978–2019–ICESIMP2021)



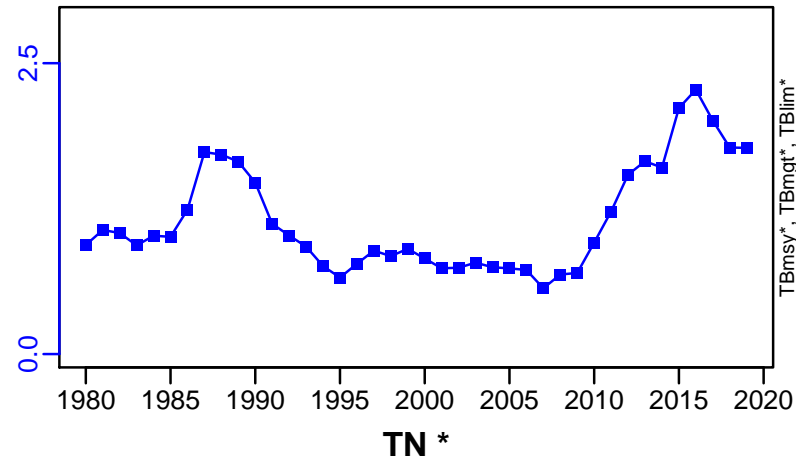
Production (1979–2014–ICESIMP2016)



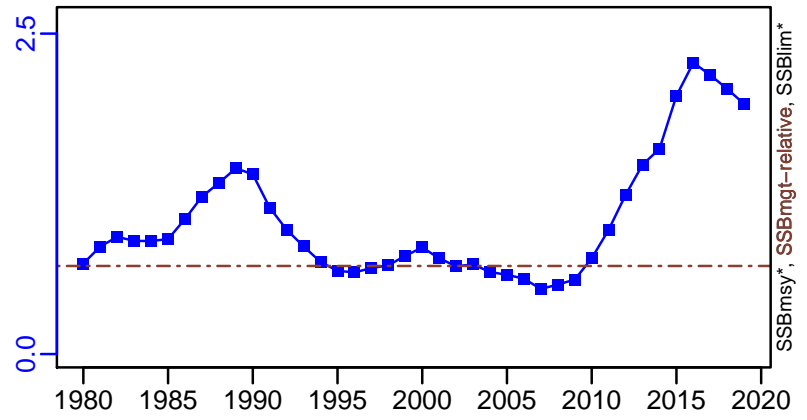
◆ Start Year ◆ End Year * No Data

European plaice Western English Channel [PLAICECHW]

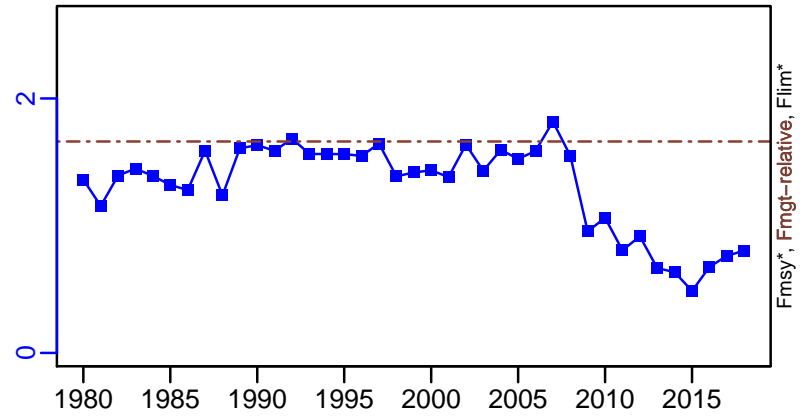
TB-relative (1978–2019–ICESIMP2021)



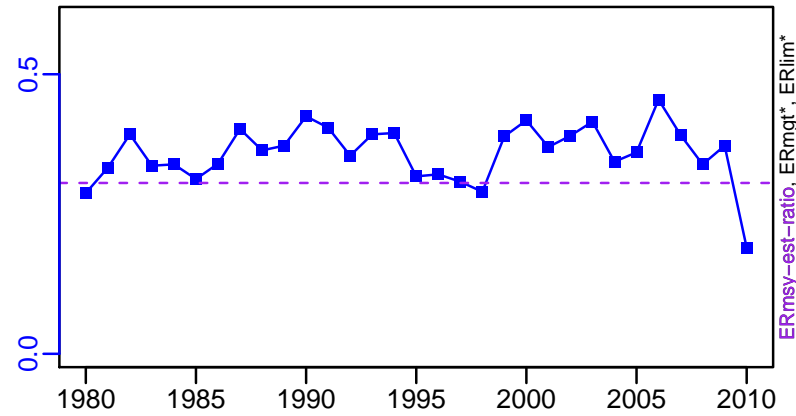
SSB-relative (1978–2019–ICESIMP2021)



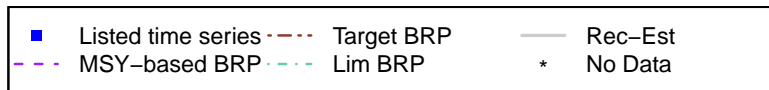
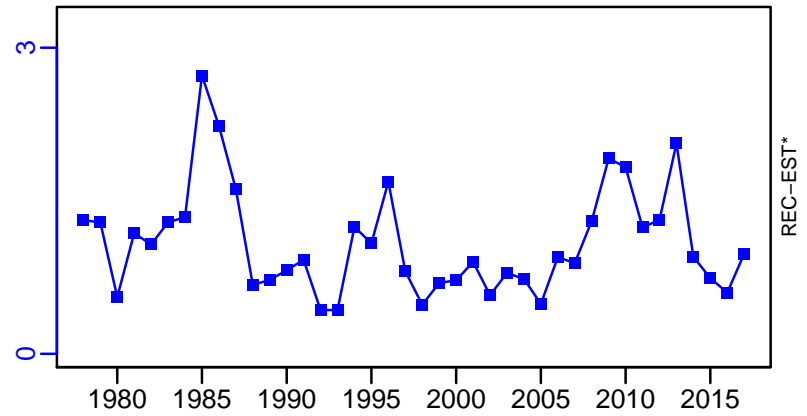
F-relative (1978–2019–ICESIMP2021)



ER-ratio (1979–2010–NEUBAUER)

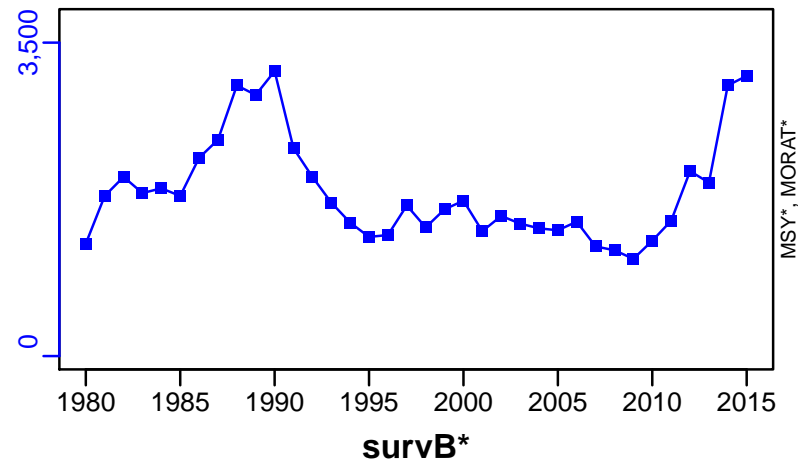


R-relative (1978–2019–ICESIMP2021)



European plaice Western English Channel [PLAICECHW]

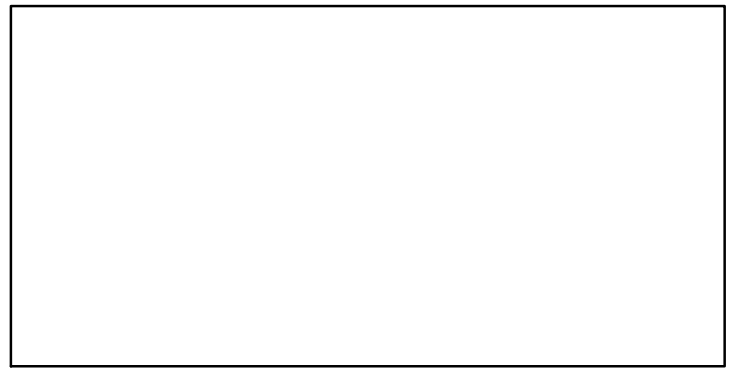
TC-MT, TL*, RecC* (1978–2016–ICESIMP2016)



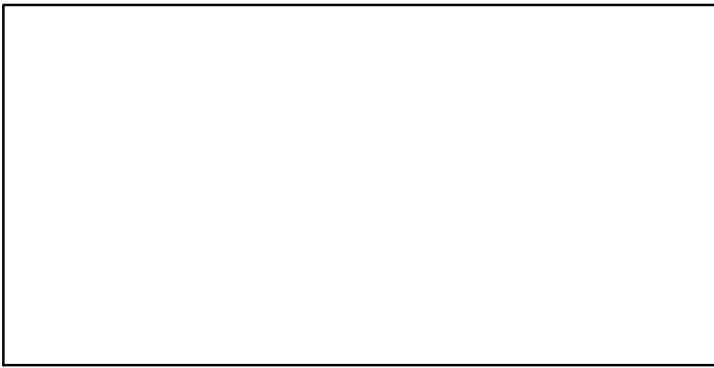
TAC*, Cpair*, Cadv*



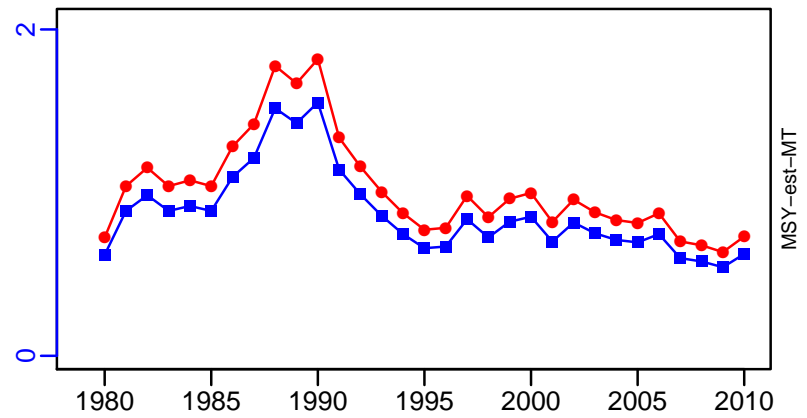
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1979–2010–NEUBAUER)



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

European plaice Irish Sea [PLAICIS]

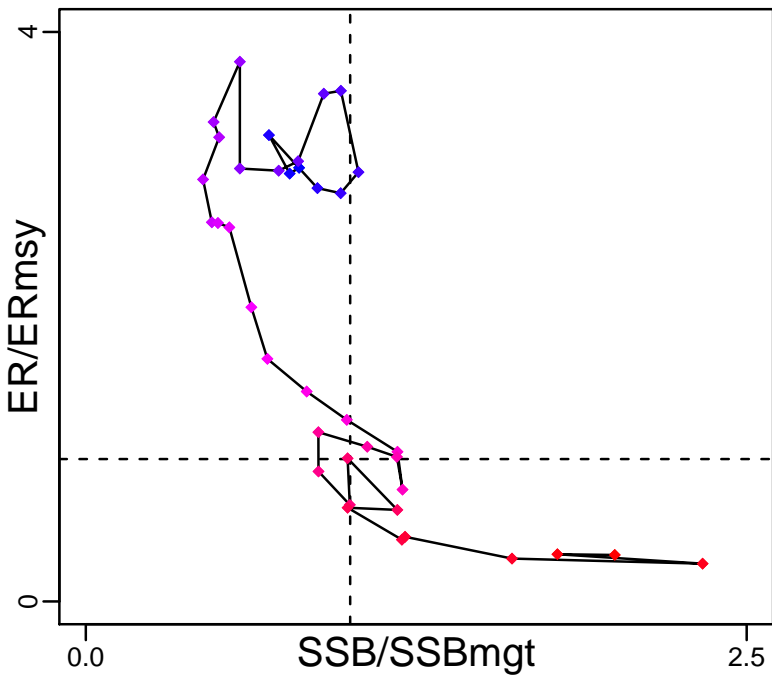
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICIS-1980-2019-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	13,856
Fmsy	Fmsy-1/yr	2018	0.169
ERmsy	ERmsy-ratio	2019	0.196
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	8757
Fmgt	Fmgt-1/yr	2018	0.169
ERmgt	ERmgt-ratio	2019	0.196
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	4823
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4250
Flim	Flim-1/yr	2018	0.481
ERlim	-	-	-

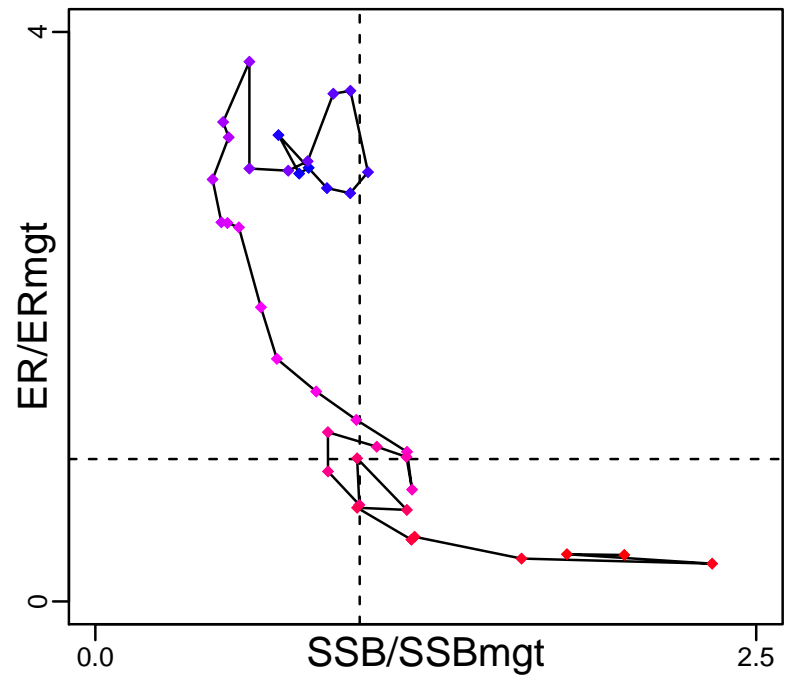
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	19,350	-	-
SSB	SSB-MT	2019	19,160	-	-
TN	-	-	-	-	-
R	R-E00	2019	14,709,000	-	1
F	F-1/yr	2018	0.066	-	3 to 6
ER	ER-ratio	2019	0.064	-	3 to 6
TC	TC-MT	2019	830		
TL	TL-MT	2019	435		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	1.739		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.39		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.327		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.188		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.39		
ER/ERmgt	-	-	-		

European plaice Irish Sea [PLAICIS]

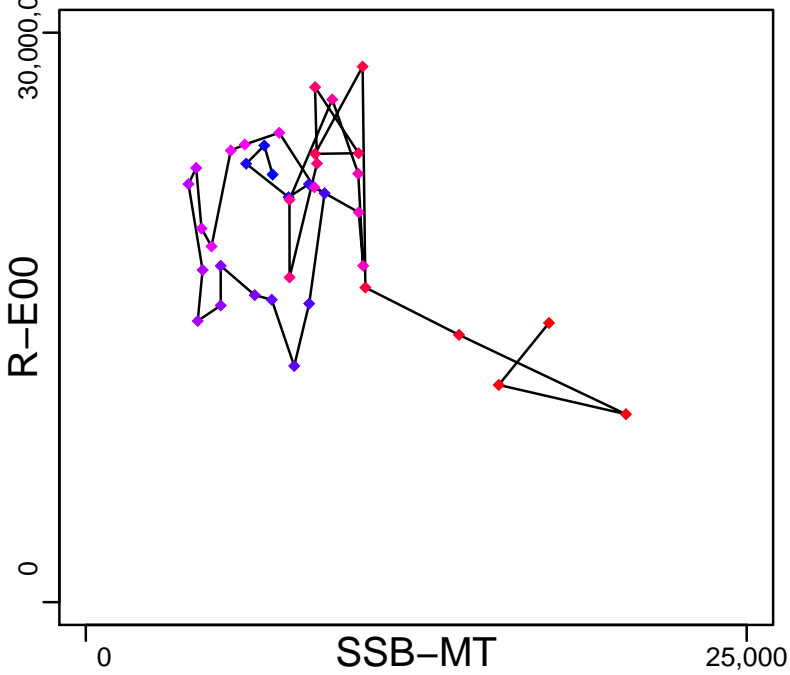
Kobe MSYpref (1980–2019–ICESIMP2021)



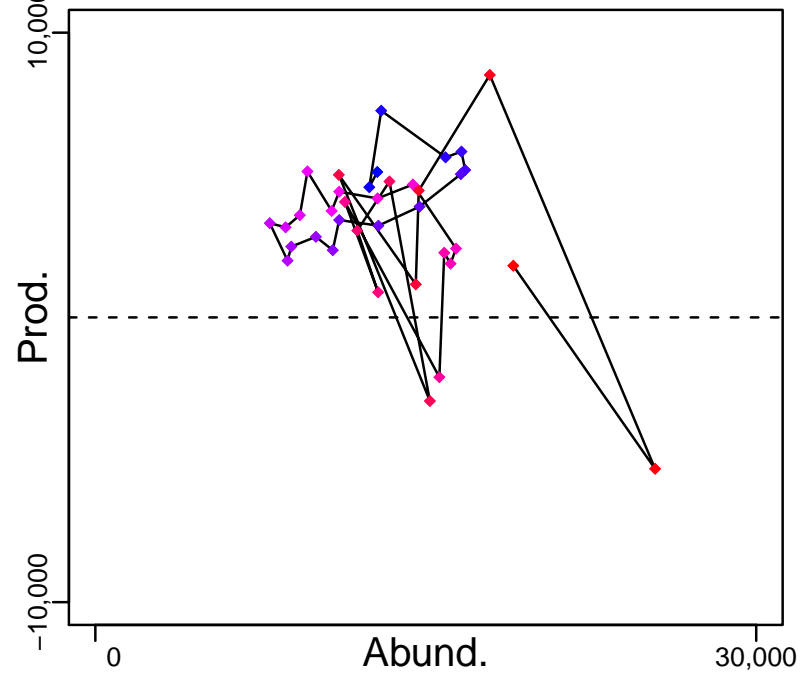
Kobe MGTpref (1980–2019–ICESIMP2021)



Spawner Recruit (1980–2019–ICESIMP2021)



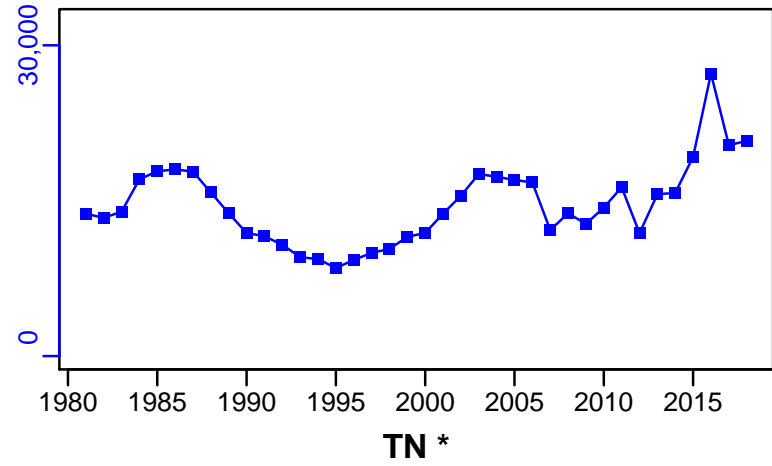
Production (1980–2019–ICESIMP2021)



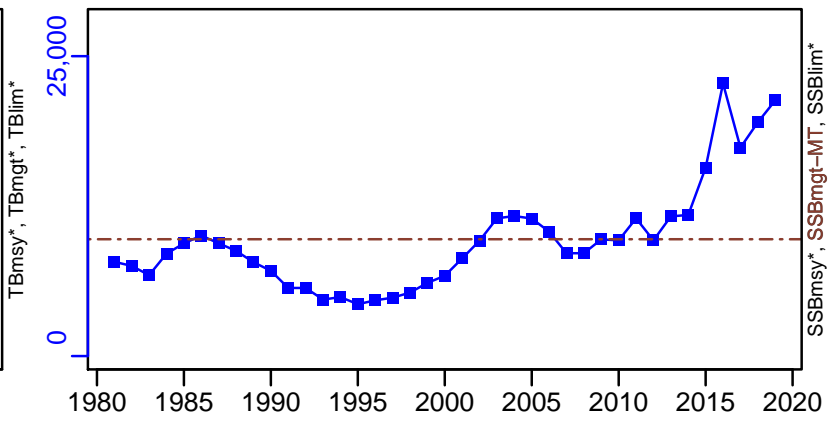
◆ Start Year ◆ End Year * No Data

European plaice Irish Sea [PLAICIS]

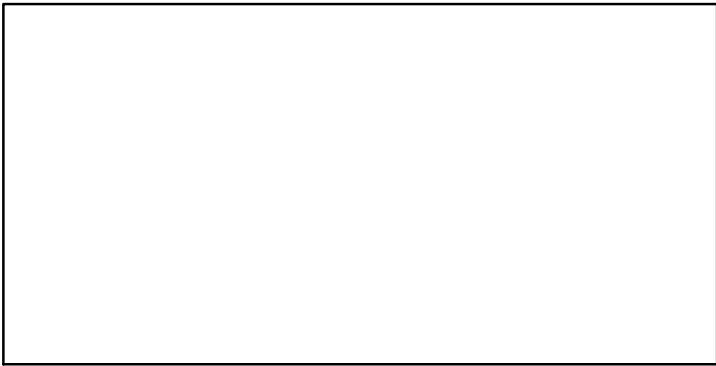
TB-MT (1980–2019–ICESIMP2021)



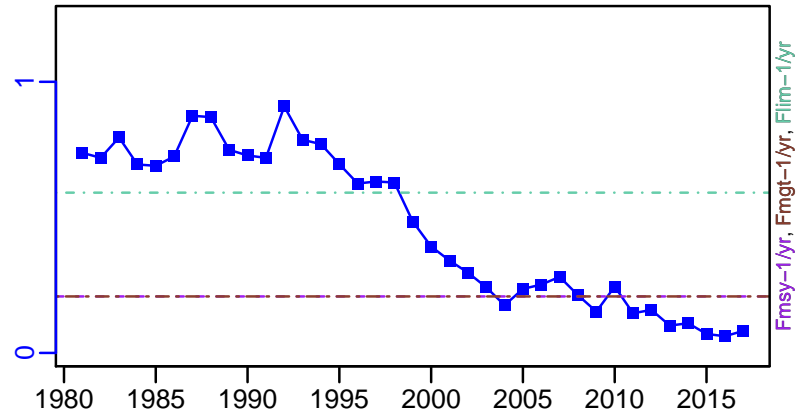
SSB-MT (1980–2019–ICESIMP2021)



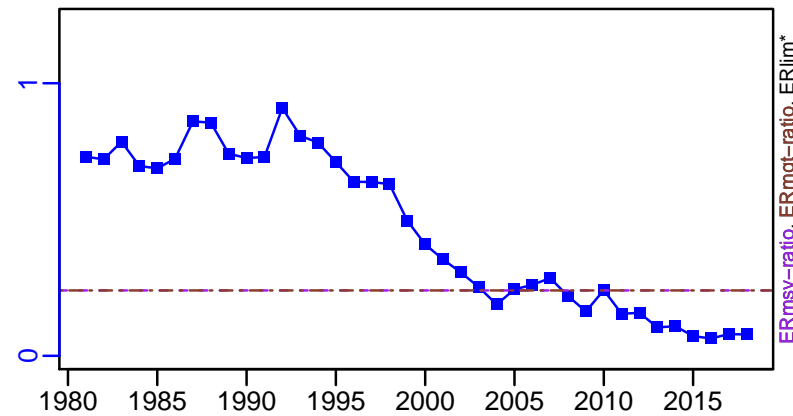
TN *



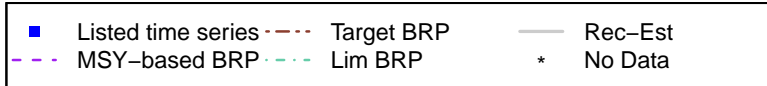
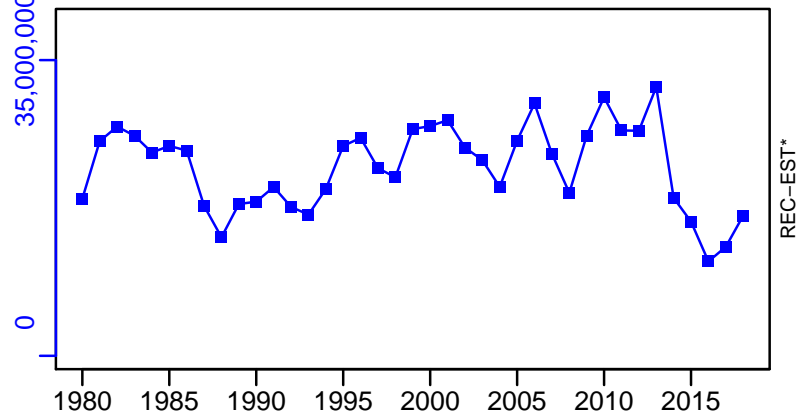
F-1/yr (1980–2018–ICESIMP2018)



ER-ratio (1980–2019–ICESIMP2021)

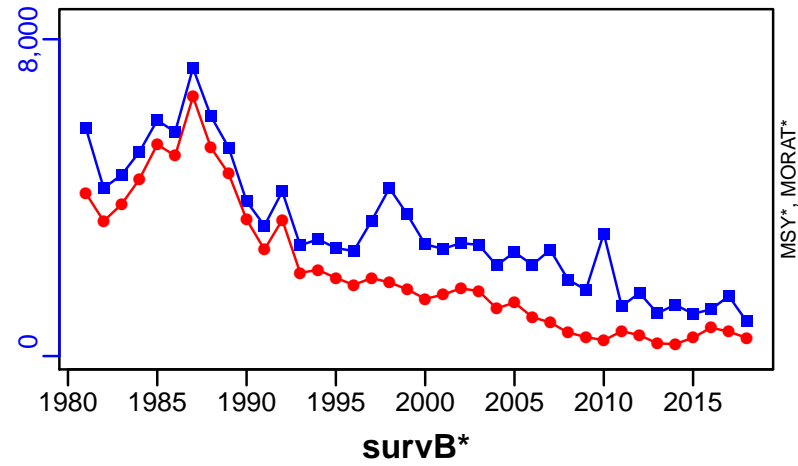


R-E00 (1980–2019–ICESIMP2021)



European plaice Irish Sea [PLAICIS]

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



TAC*, Cpair*, Cadv*



survB*



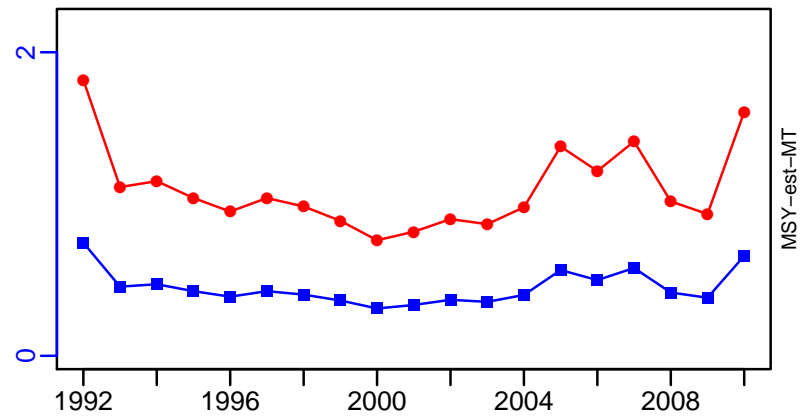
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1992–2010–NEUBAUER)



European plaice North Sea [PLAICNS]

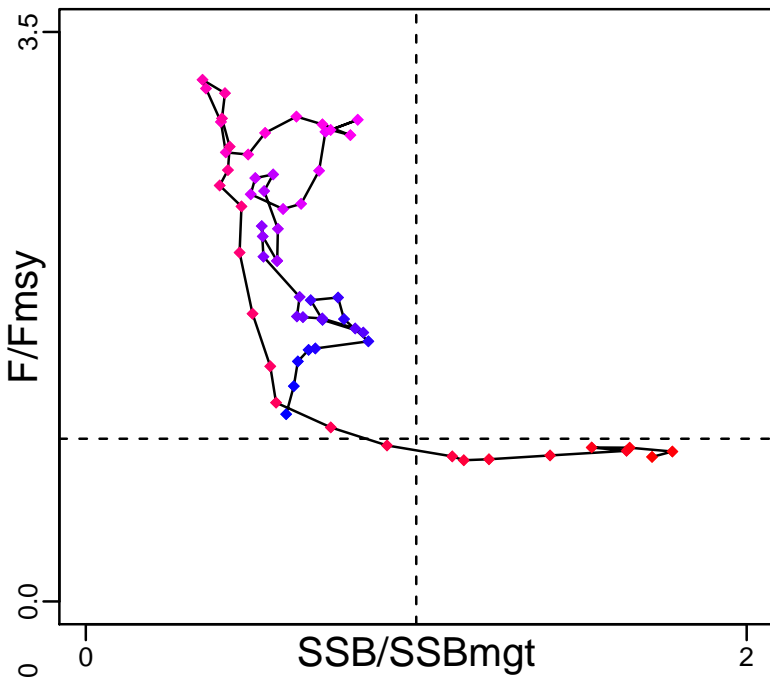
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICNS-1956-2019-ICESIMP2021
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	480,506
Fmsy	Fmsy-1/yr	2019	0.21
ERmsy	ERmsy-est-ratio	2019	0.224
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	564,599
Fmgt	Fmgt-1/yr	2019	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	196,199
M	M-1/yr	2010	0.1
TBlim	TBlim-MT	2010	160,000
SSBlim	SSBlim-MT	2018	207,288
Flim	Flim-1/yr	2018	0.516
ERlim	-	-	-

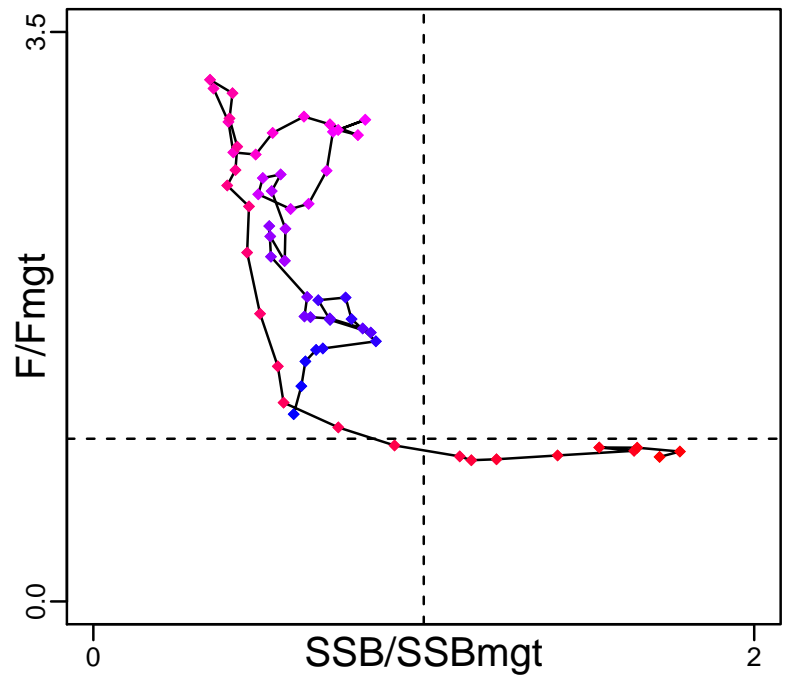
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	1,087,280	-	-
SSB	SSB-MT	2019	1,052,266	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,413,221,000	-	1
F	F-1/yr	2019	0.187	-	2 to 6
ER	ER-calc-ratio	2019	0.097	-	-
TC	TC-MT	2019	105,787		
TL	TL-MT	2019	57,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.959		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.888		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.434		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.864		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.888		
ER/ERmgt	-	-	-		

European plaice North Sea [PLAICNS]

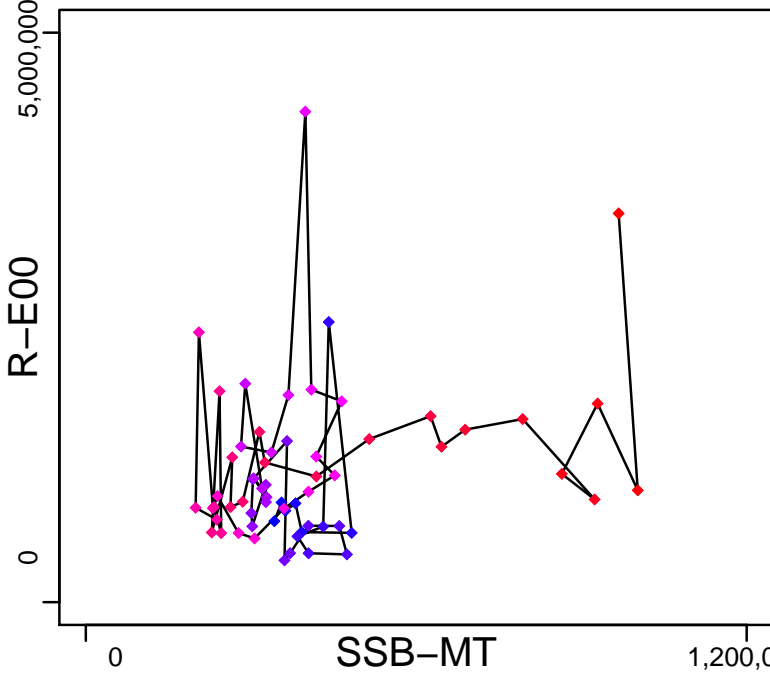
Kobe MSYpref (1956–2019–ICESIMP2021)



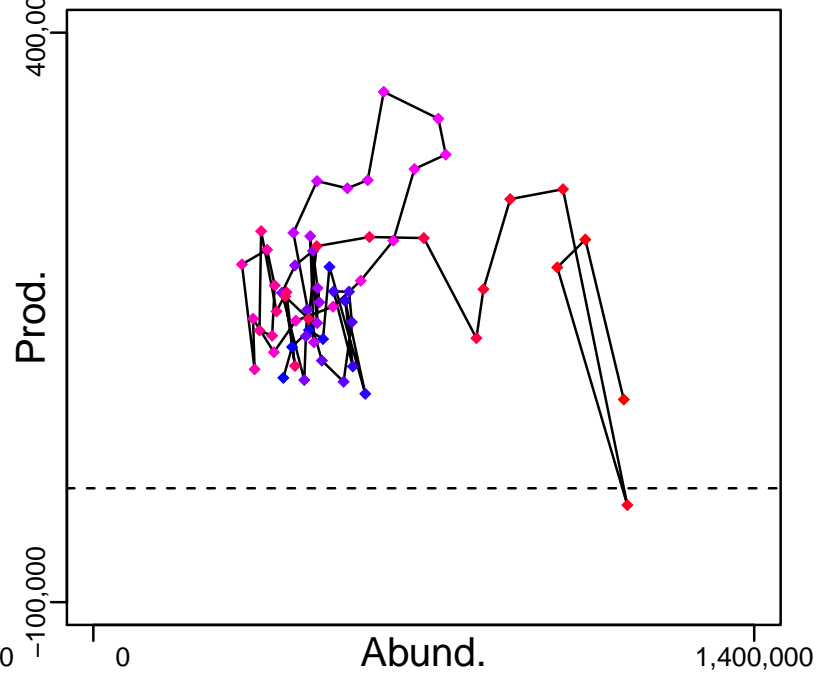
Kobe MGTpref (1956–2019–ICESIMP2021)



Spawner Recruit (1956–2019–ICESIMP2021)



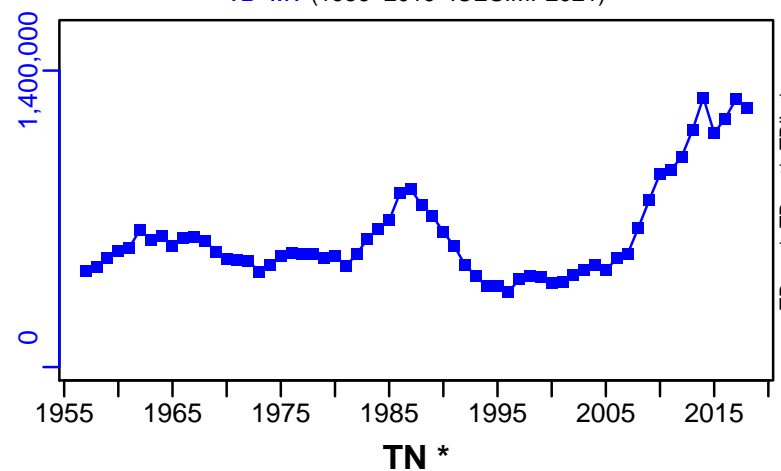
Production (1956–2019–ICESIMP2021)



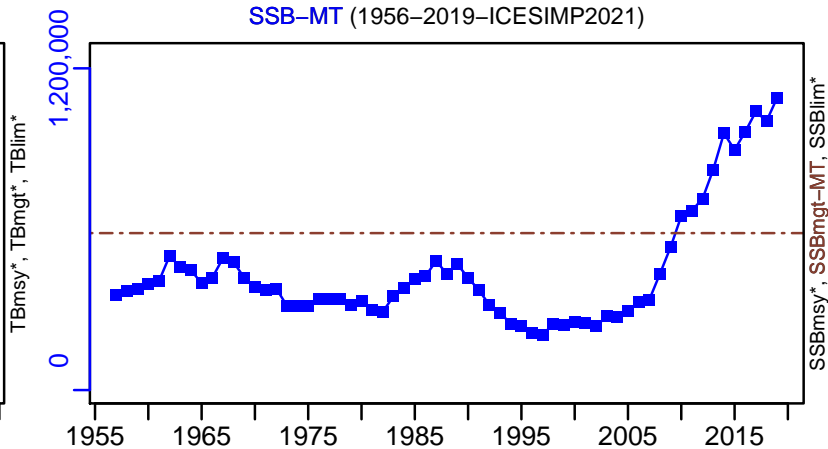
◆ Start Year ◆ End Year * No Data

European plaice North Sea [PLAICNS]

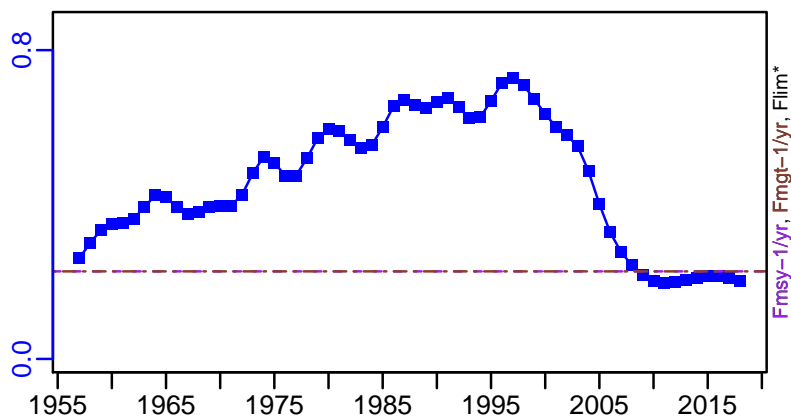
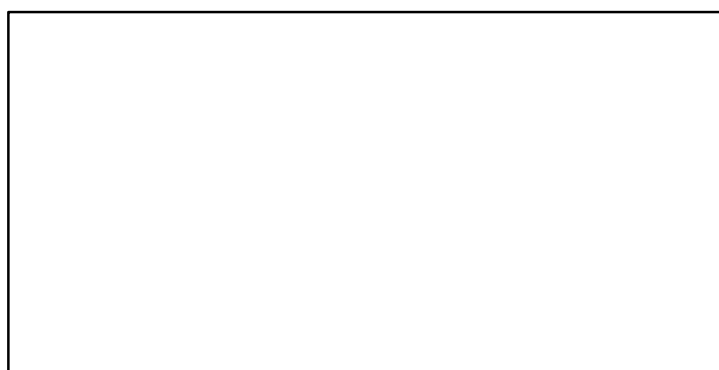
TB-MT (1956–2019–ICESIMP2021)



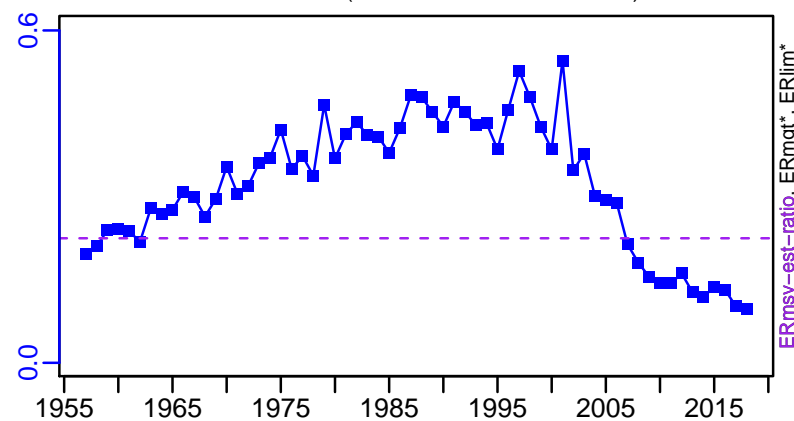
SSB-MT (1956–2019–ICESIMP2021)



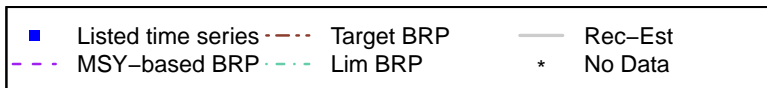
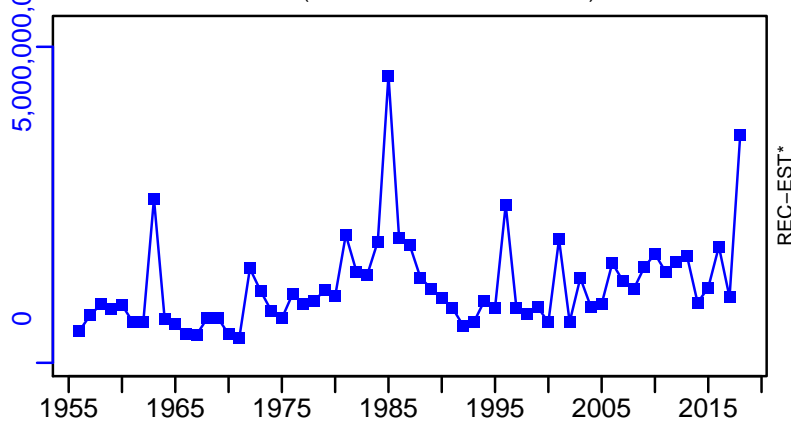
F-1/yr (1956–2019–ICESIMP2021)



ER-calc-ratio (1956–2019–ICESIMP2021)

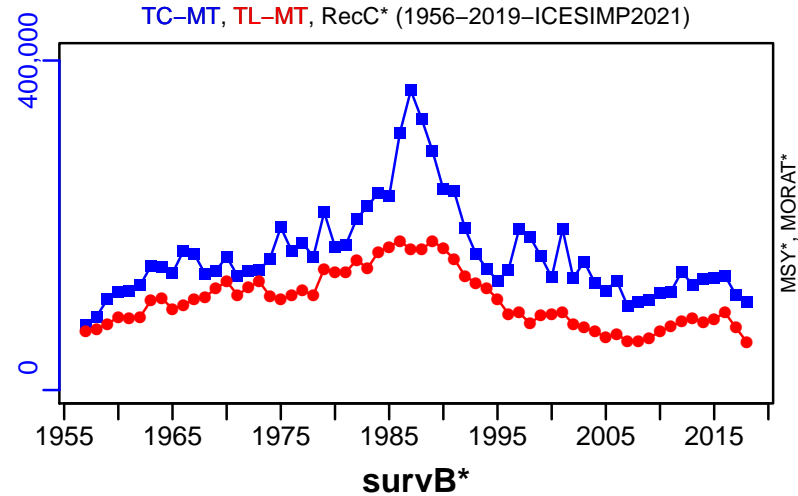


R-E00 (1956–2019–ICESIMP2021)



European plaice North Sea [PLAICNS]

TC-MT, TL-MT, RecC* (1956–2019–ICESIMP2021)



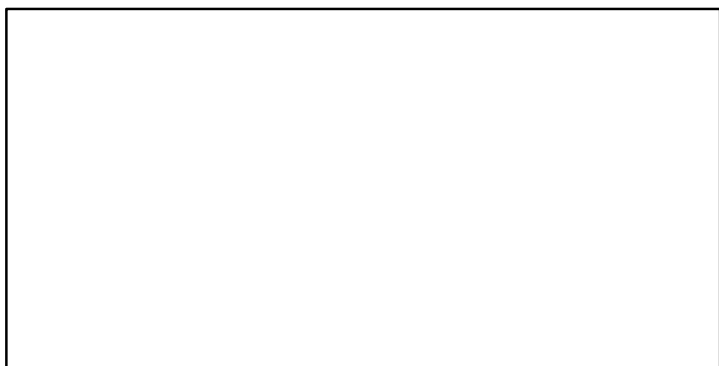
TAC*, Cpair*, Cadv*



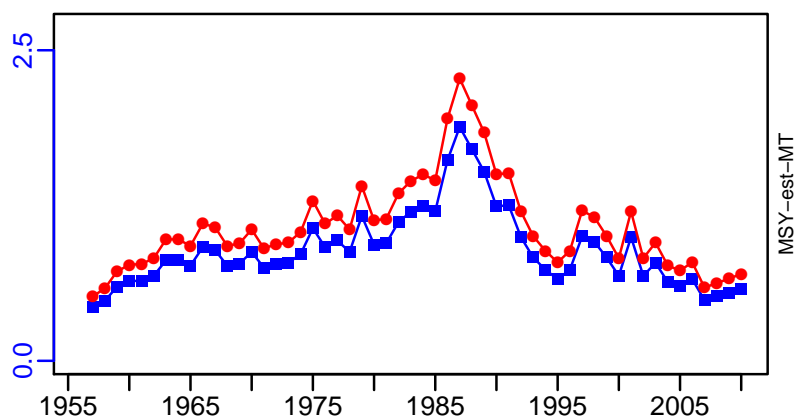
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1956–2010–NEUBAUER)



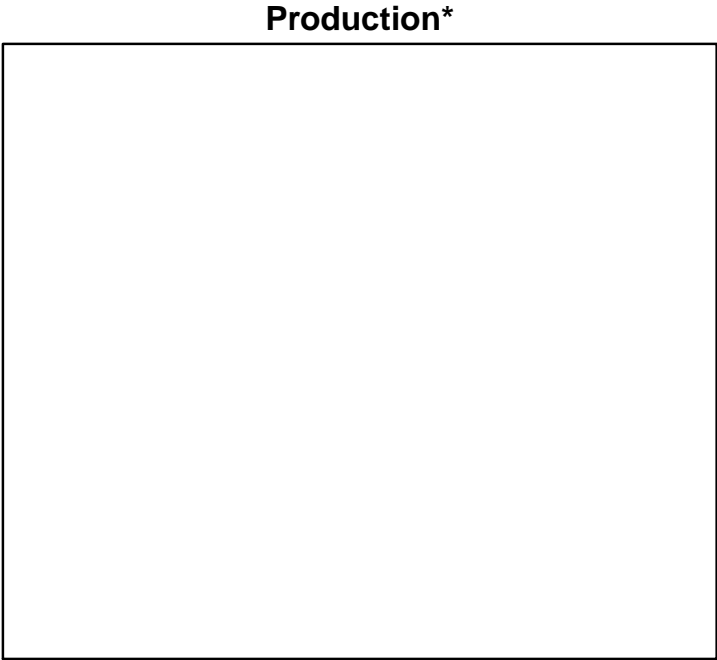
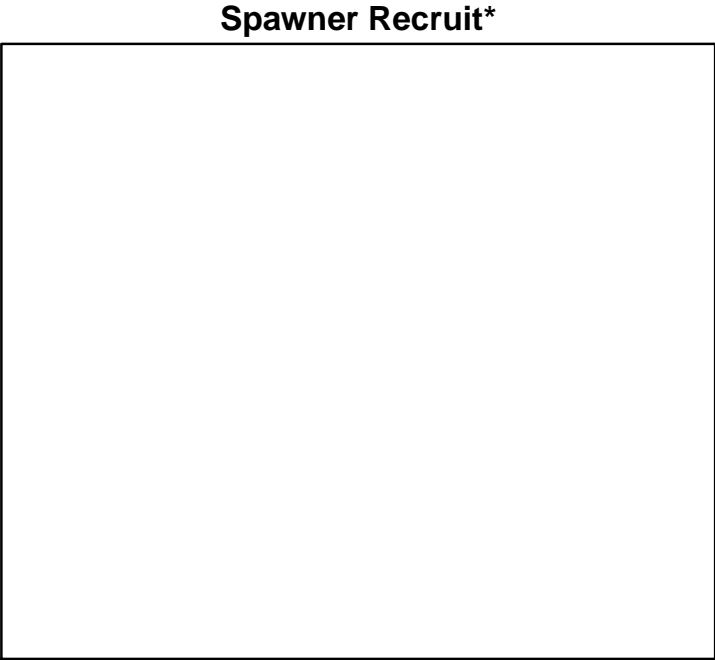
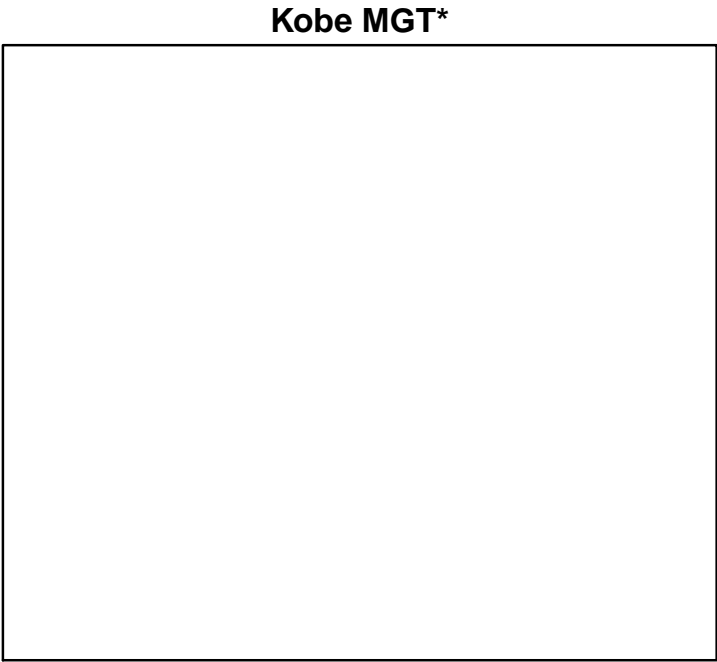
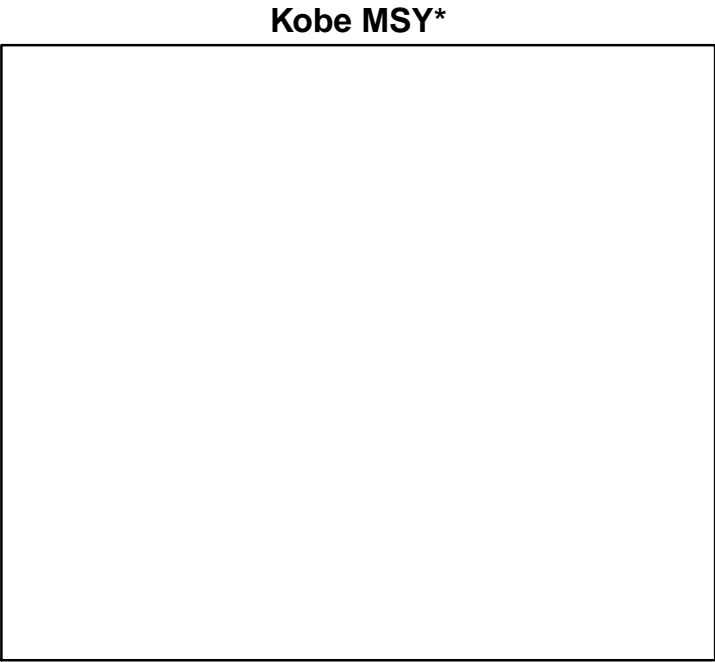
- 1st listed time series (blue square)
- 2nd listed time series (red circle)
- 3rd listed time series (green triangle)
- MSY (dashed purple line)
- MORAT (grey line)
- No Data (*)

European plaice ICES 7bc [PLAICVIIbc]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIbc-1908-2016-ICESIMP2018
Area	ICES 7bc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 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	2016	29		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

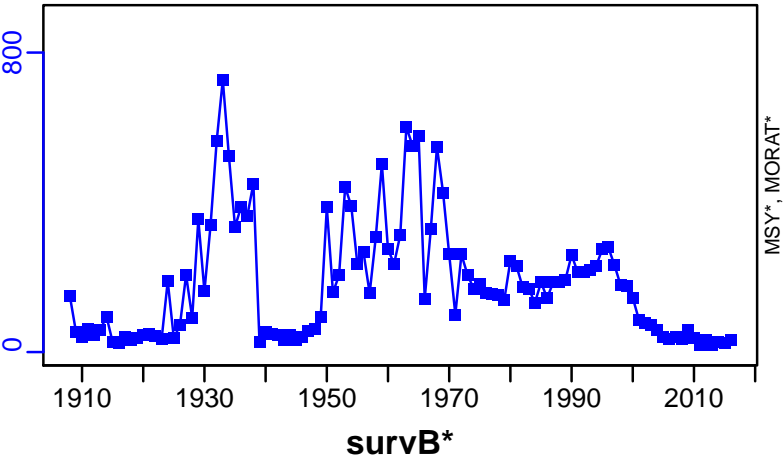
--- Lim BRP

— Rec-Est

* No Data

European plaice ICES 7bc [PLAICVIIbc]

TL-MT, TC*, RecC* (1908–2016–ICESIMP2018)



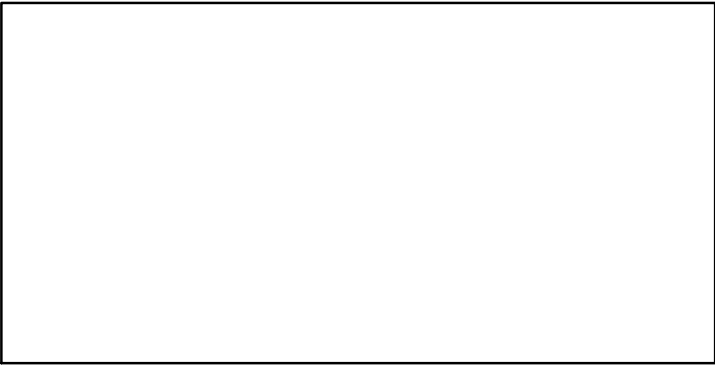
TAC*, Cpair*, Cadv*



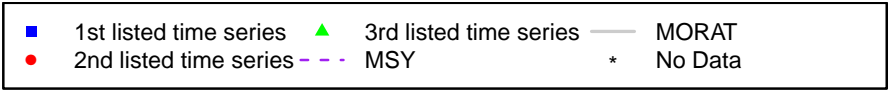
CPUE*



EFFORT*



CdivMSY*



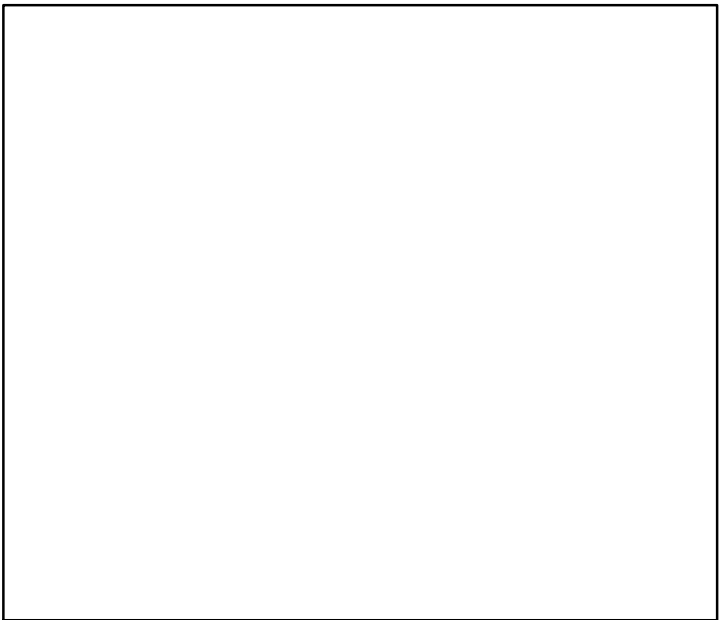
European plaice ICES 7h-k [PLAICVIIh-k]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIh-k-1989-2019-ICESIMP2021
Area	ICES 7h-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2019	0.579	-	-
TN	-	-	-	-	-
R	R-relative	2019	0.86	-	4
F	F-relative	2019	0.91	-	4 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	38		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

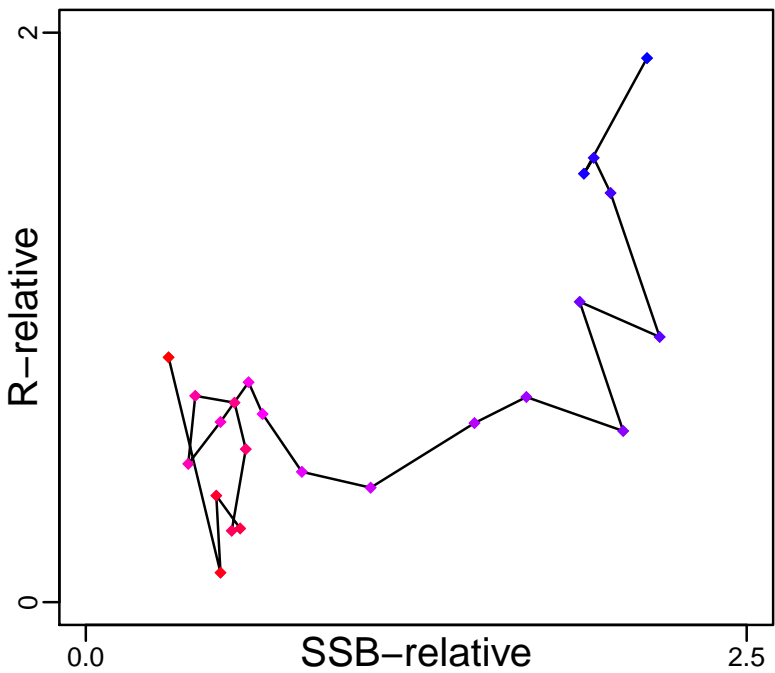
Kobe MSY*



Kobe MGT*



Spawner Recruit (1989–2019–ICESIMP2021)



Production*



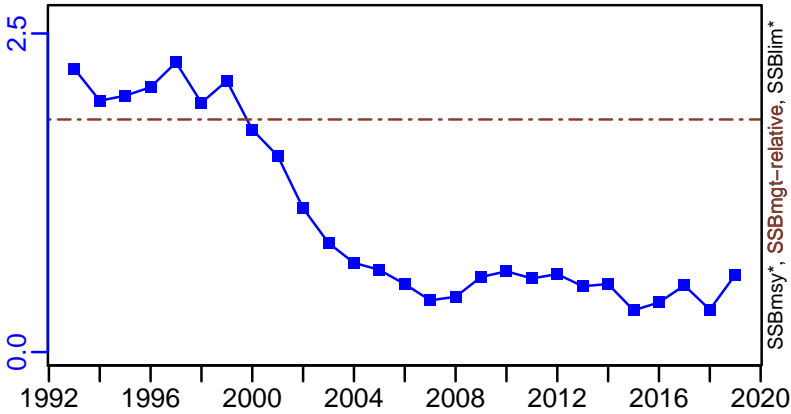
◆ Start Year ◆ End Year * No Data

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

TB*



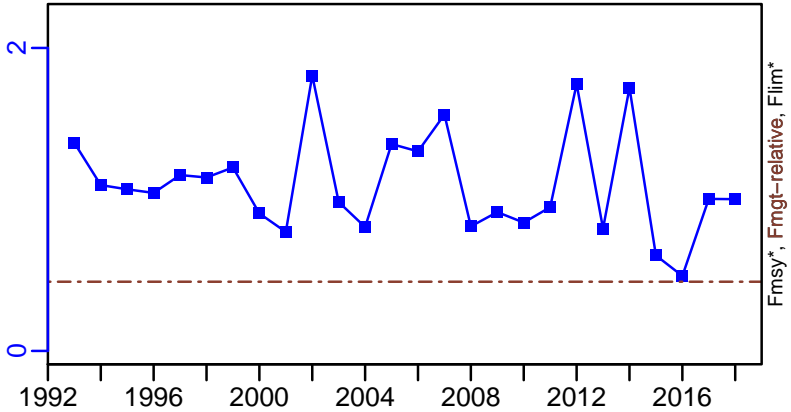
SSB-relative (1989-2019-ICESIMP2021)



TN *



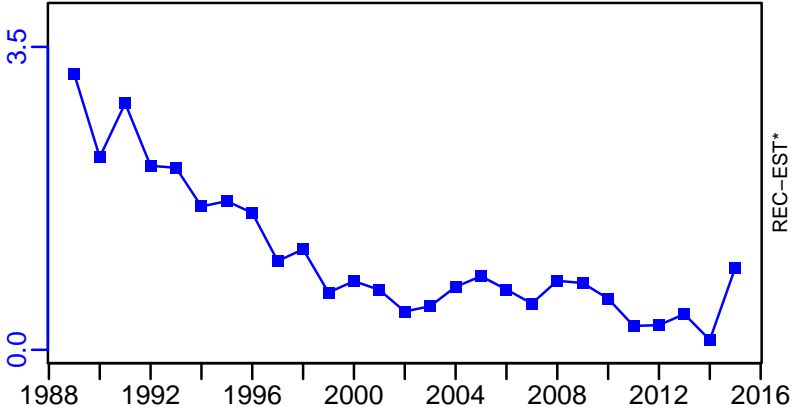
F-relative (1989-2019-ICESIMP2021)



ER*

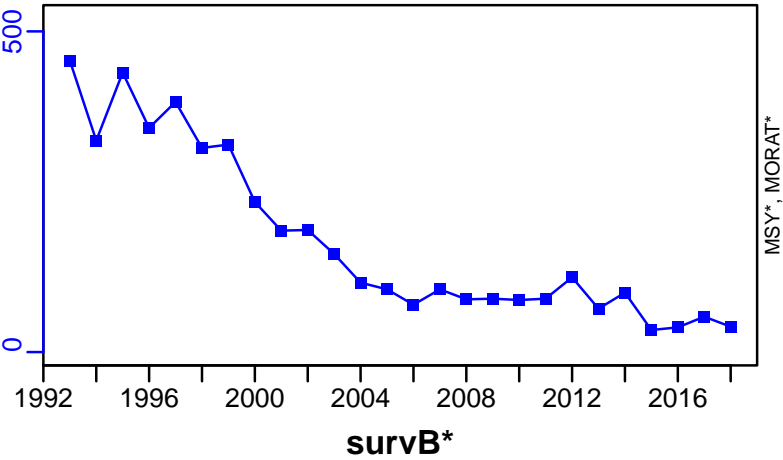


R-relative (1989-2019-ICESIMP2021)



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

TL-MT, TC*, RecC* (1989-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

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

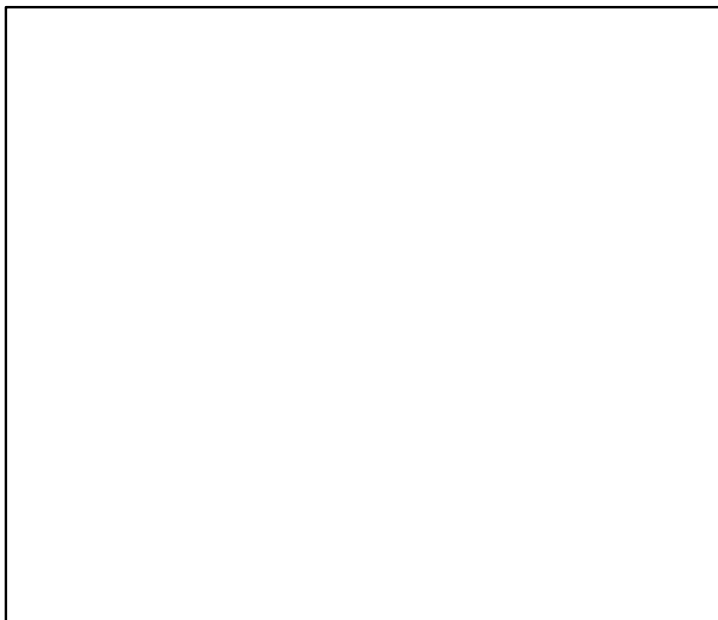
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

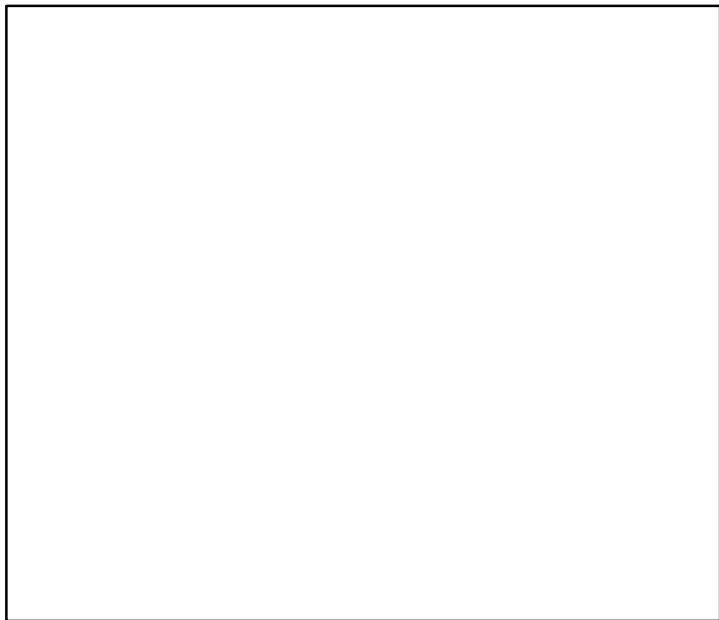
Kobe MSY*



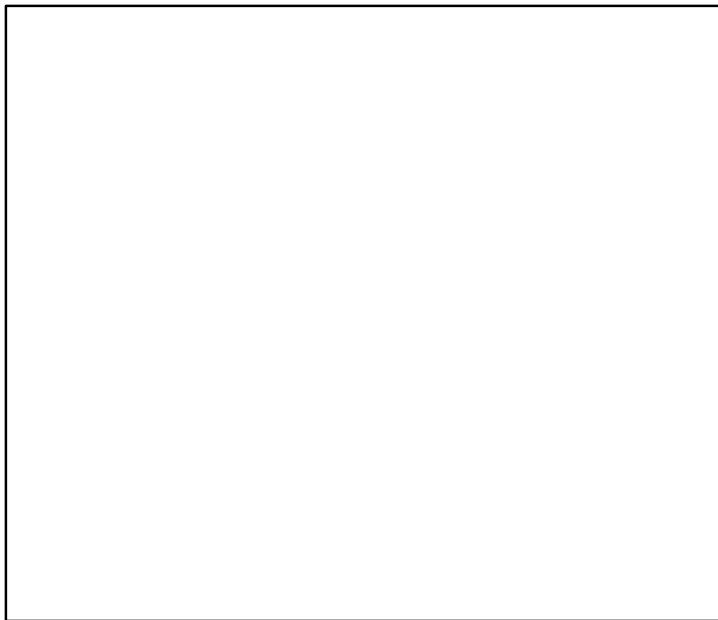
Kobe MGT*



Spawner Recruit*



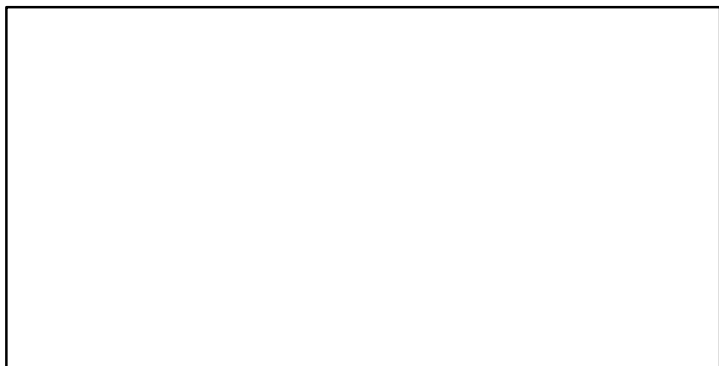
Production*



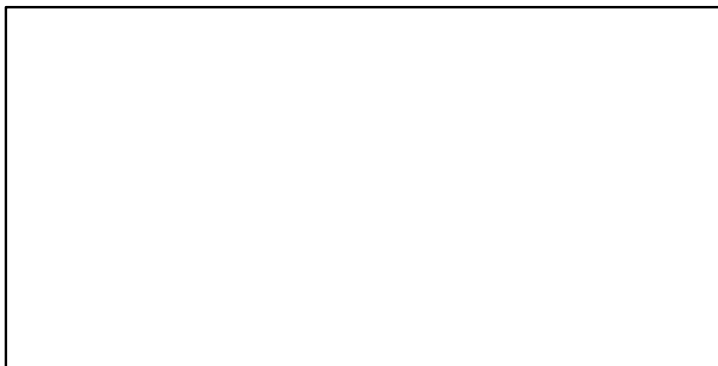
◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



TN *



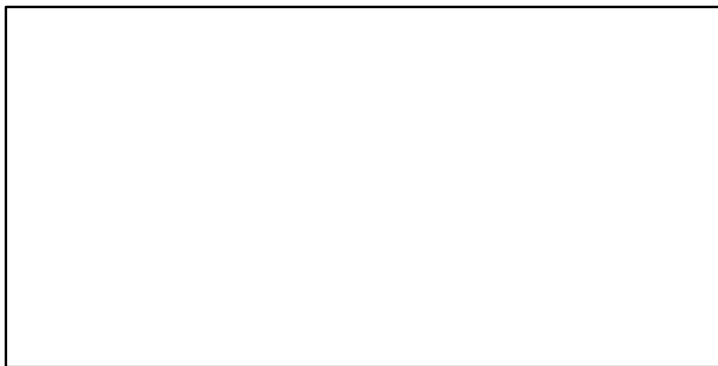
F*



ER*

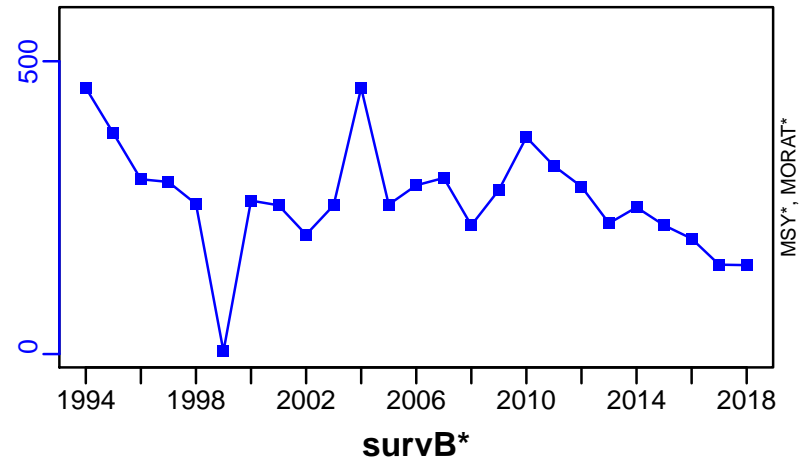


Recruits*



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

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



TAC*, Cpair*, Cadv*



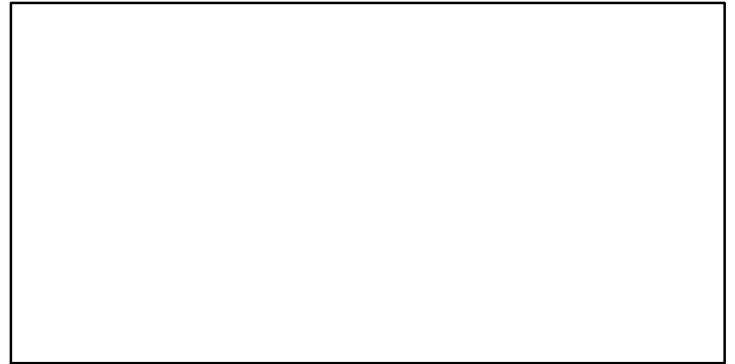
CPUE*



EFFORT*



CdivMSY*



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

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

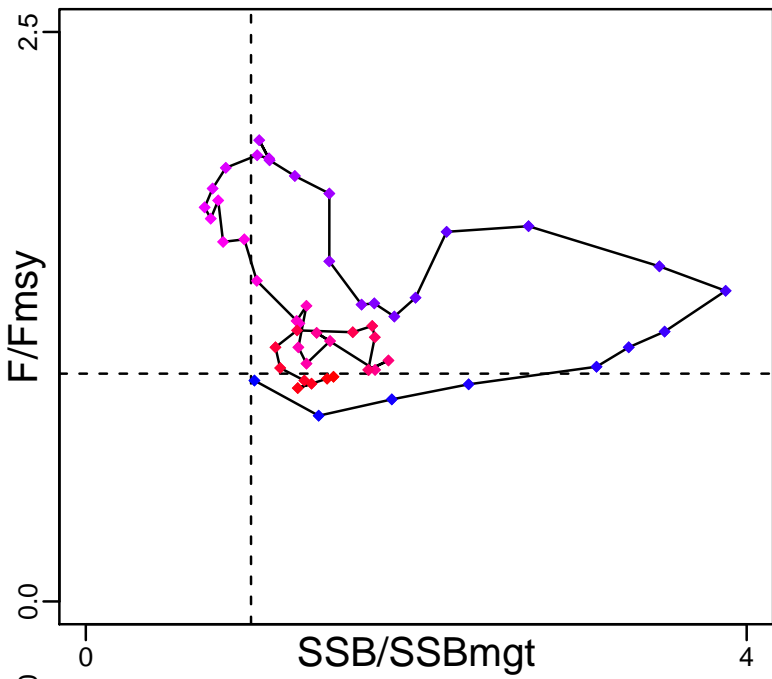
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	WGNSSK-POLLNS-VI-IIIa-1964-2019-ICESIMP2021
Area	ICES 3a-4-6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	1,268,238
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.363
ERmsy	ERmsy-est-ratio	2019	0.428
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	149,098
Fmgt	Fmgt-1/yr	2019	0.363
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	2×10^5
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	107,000
Flim	Flim-1/yr	2018	0.56
ERlim	-	-	-

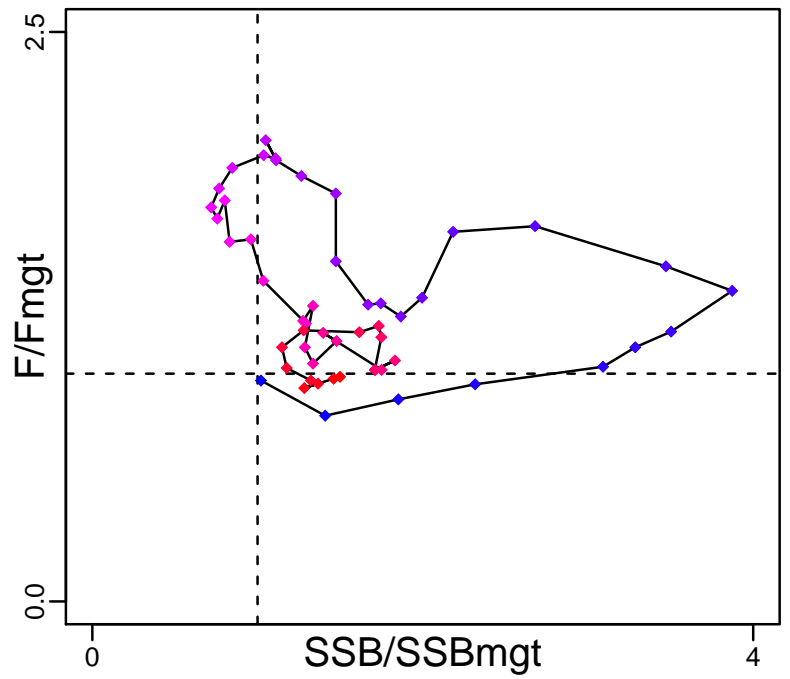
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	383,325	-	-
SSB	SSB-MT	2019	228,110	-	-
TN	-	-	-	-	-
R	R-E00	2019	83,040,000	-	3
F	F-1/yr	2019	0.358	-	4 to 7
ER	ER-calc-ratio	2019	0.246	-	-
TC	TC-MT	2019	94,334		
TL	TL-MT	2019	86,540		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	0.341		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.986		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.575		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.53		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.986		
ER/ERmgt	-	-	-		

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

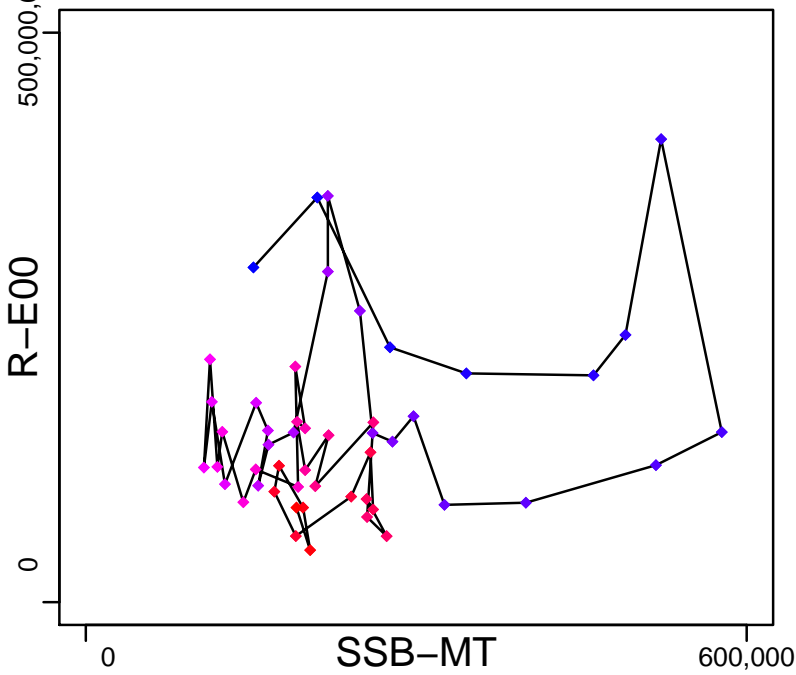
Kobe MSYpref (1964-2019-ICESIMP2021)



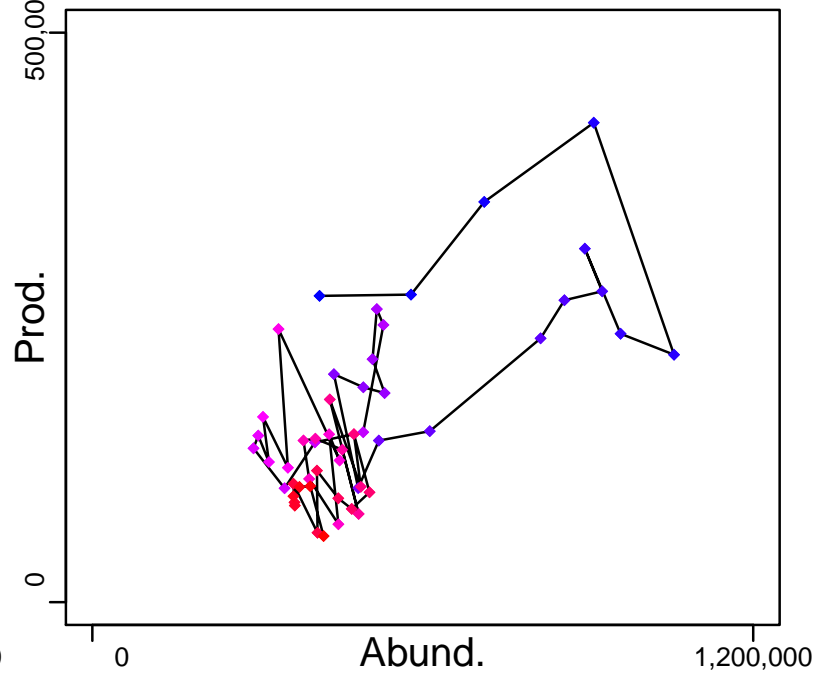
Kobe MGTpref (1964-2019-ICESIMP2021)



Spawner Recruit (1964-2019-ICESIMP2021)

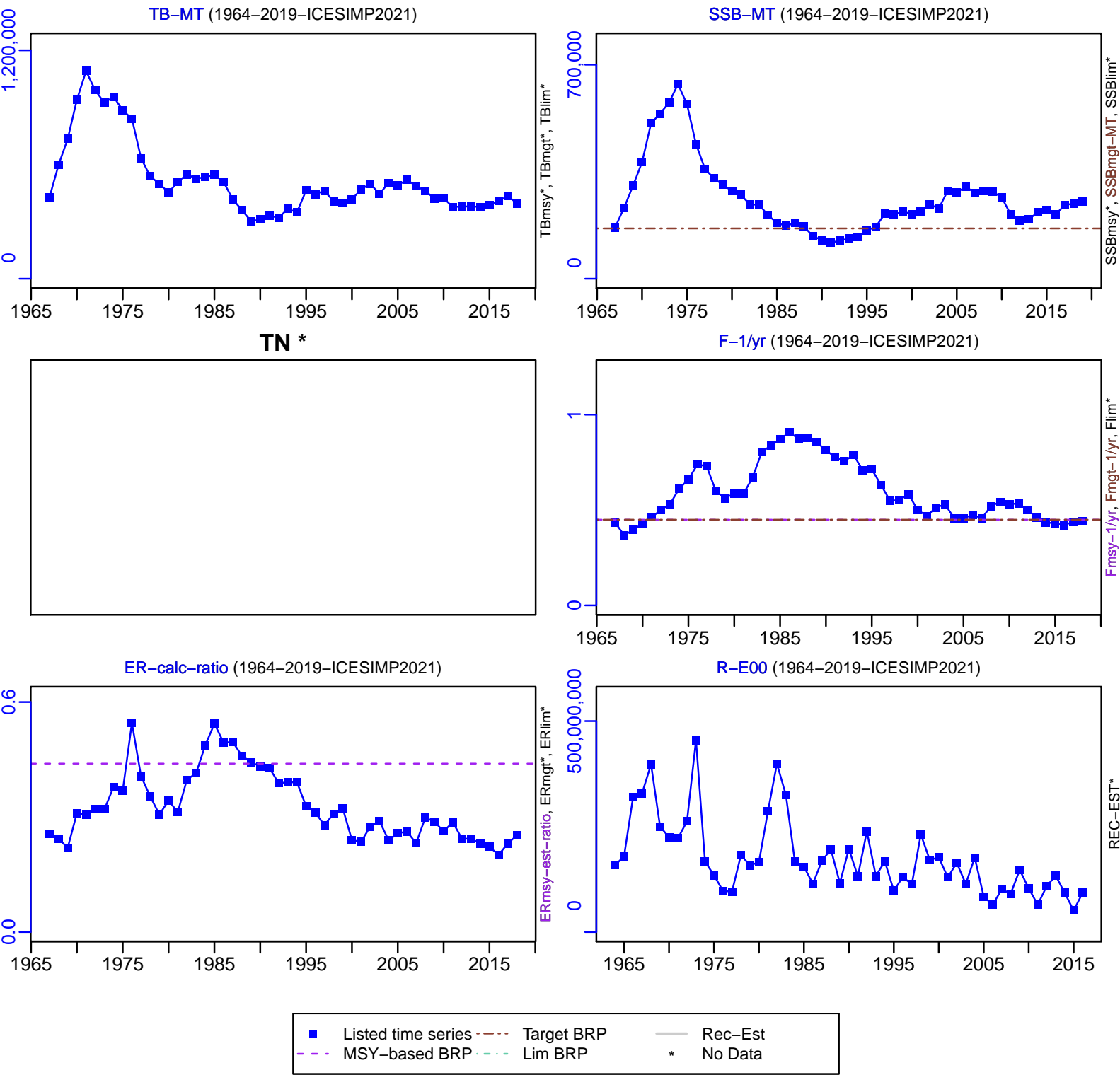


Production (1964-2019-ICESIMP2021)



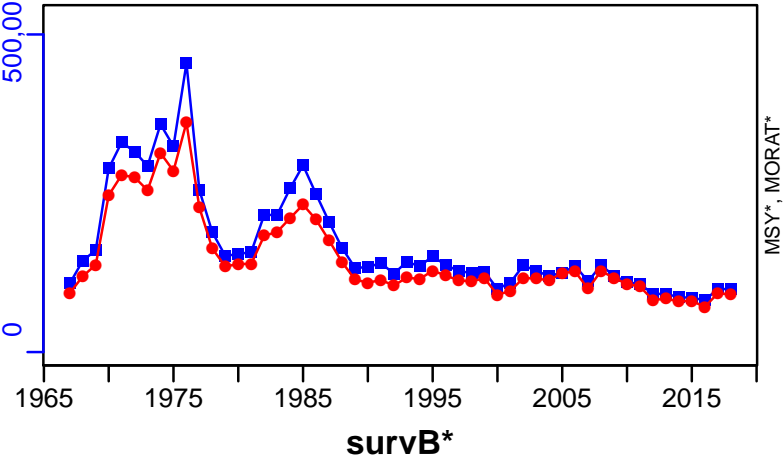
◆ Start Year ◆ End Year * No Data

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



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

TC-MT, TL-MT, RecC* (1964-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



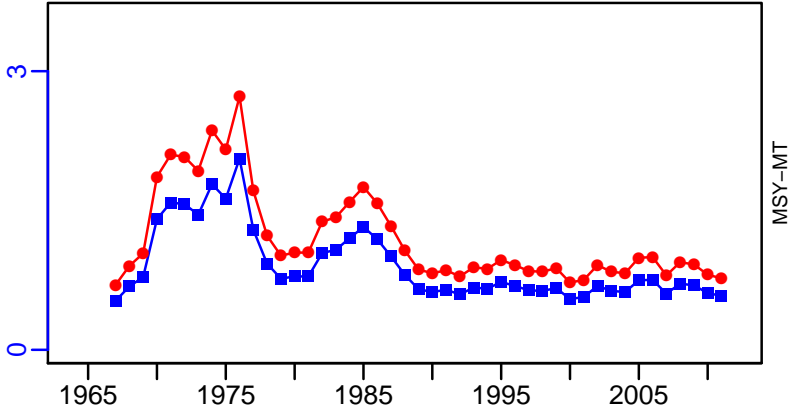
CPUE*



EFFORT*



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



Porbeagle shark Northeast Atlantic [PORSHARNEATL]

Metadata	
Scientific Name	Lamna nasus
Current Assess ID	WGEF-PORSHARNEATL-1926-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 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	7		
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

Porbeagle shark Northeast Atlantic [PORSHARNEATL]

TB*



SSB*



TN *



F*



ER*



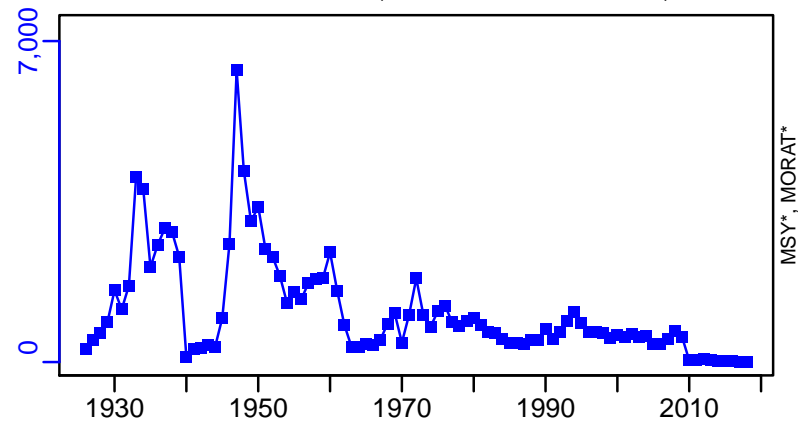
Recruits*



Porbeagle shark Northeast Atlantic [PORSHARNEATL]

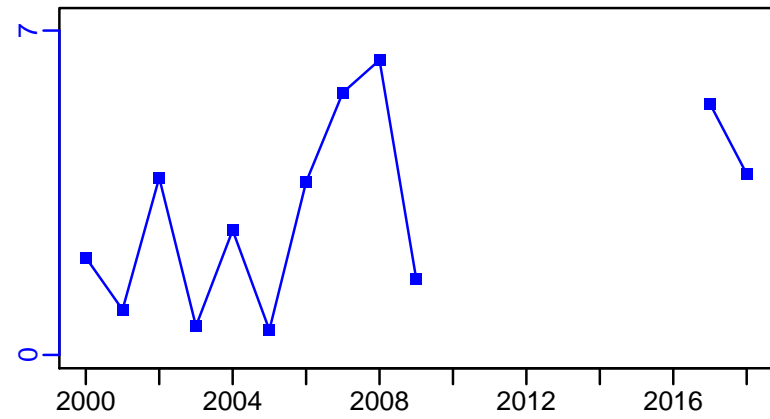
TL-MT, TC*, RecC* (1926–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



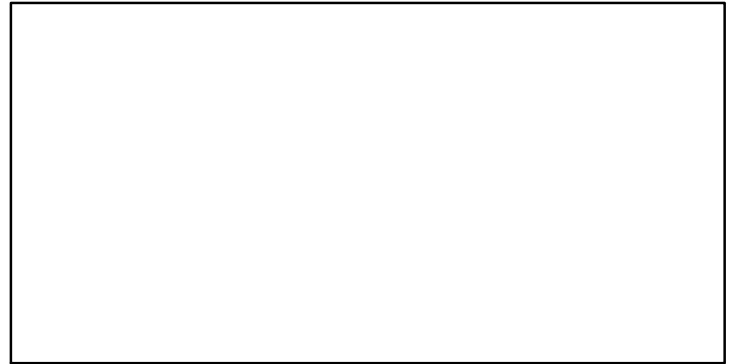
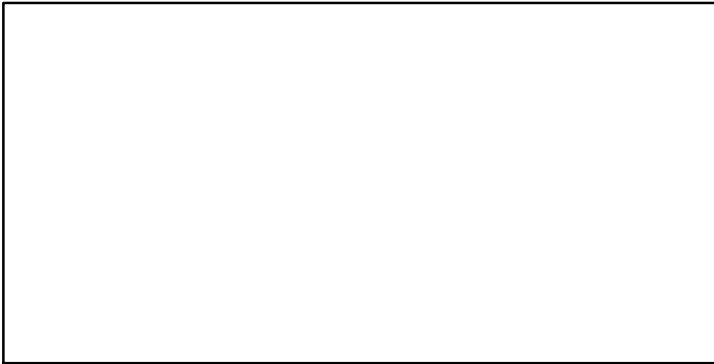
survB-index (1926–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



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

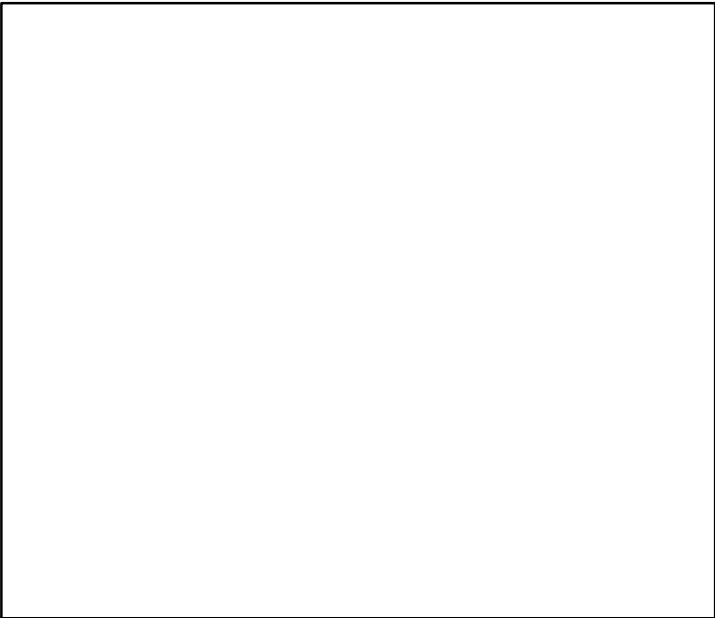
Red seabream ICES 9 [RBRMIX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMIX-1988-2017-ICESIMP2018
Area	ICES 9
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

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	295		
TL	TL-MT	2017	336		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

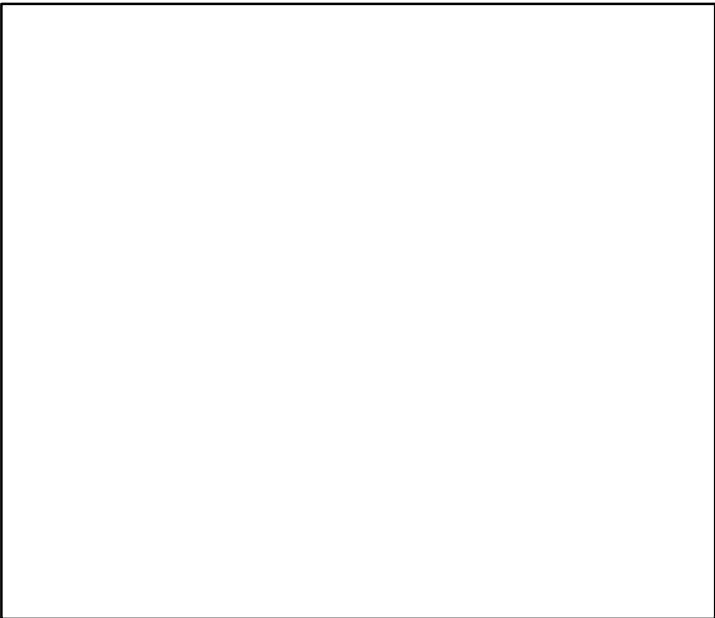
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red seabream ICES 9 [RBRMIX]

TB*



SSB*



TN *



F*



ER*



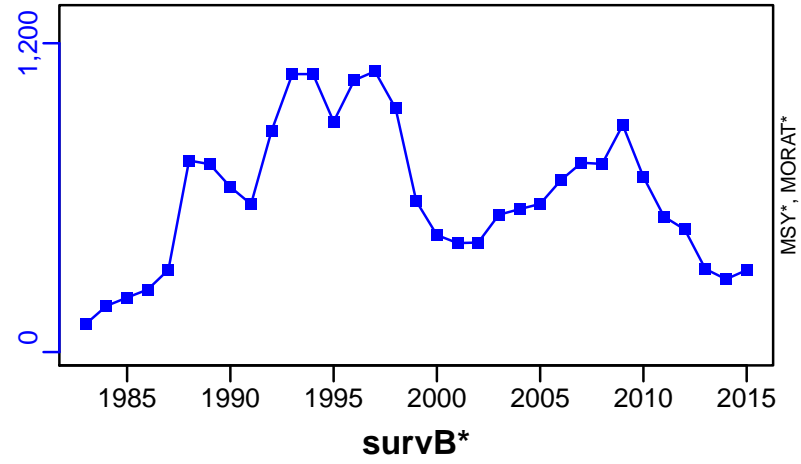
Recruits*



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

Red seabream ICES 9 [RBRMIX]

TC-MT, TL*, RecC* (1983–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



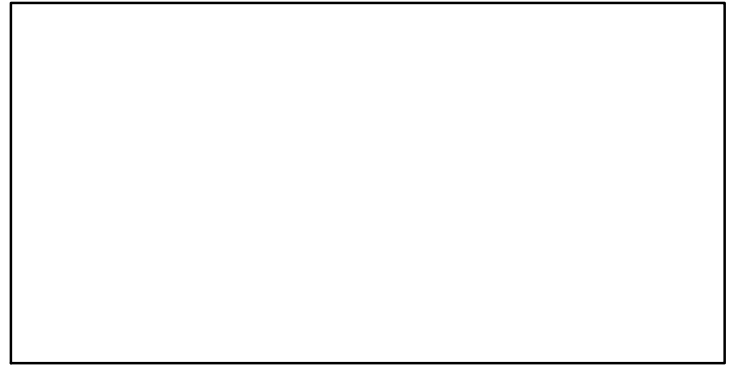
CPUE*



EFFORT*



CdivMSY*



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

Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMVI-VII-VIII-1948-2017-ICESIMP2018
Area	ICES 6-7-8
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

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	125		
TL	TL-MT	2017	124		
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*

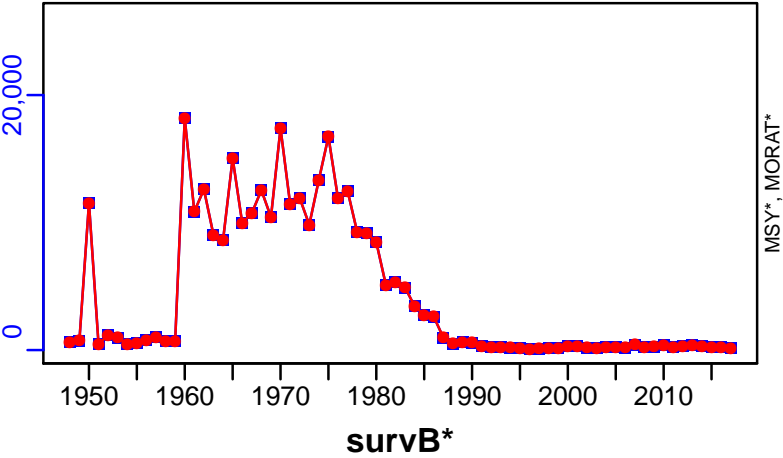


Recruits*



Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

TC-MT, TL-MT, RecC* (1948-2017-ICESIMP2018)



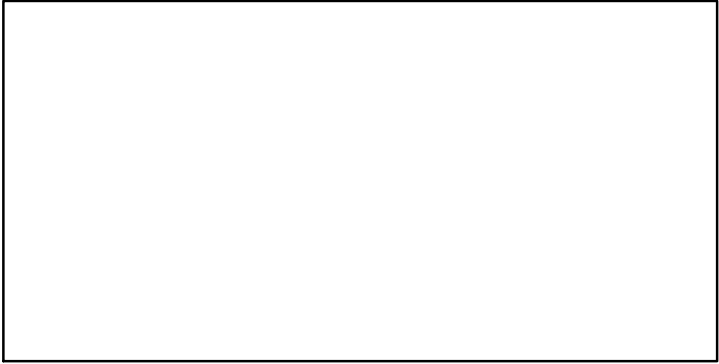
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Red seabream Azores Grounds [RBRMX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMX-1980-2018-ICESIMP2021
Area	Azores 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	2016, 2016, 2017, 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	445		
TL	TL-MT	2018	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

Red seabream Azores Grounds [RBRMX]

TB*



SSB*



TN *



F*



ER*



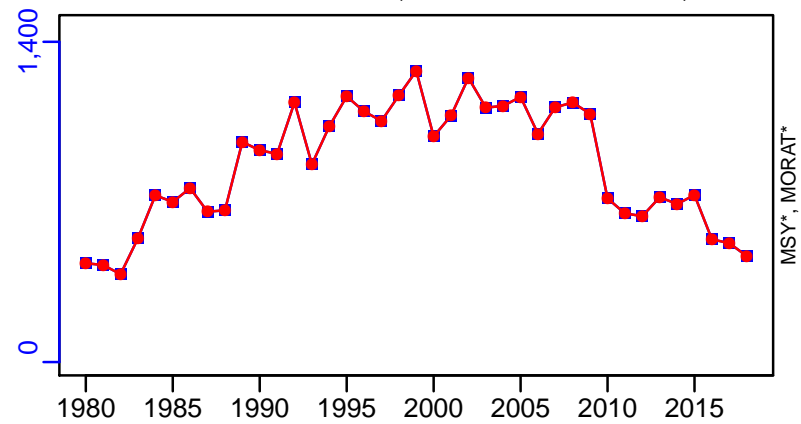
Recruits*



Red seabream Azores Grounds [RBRMX]

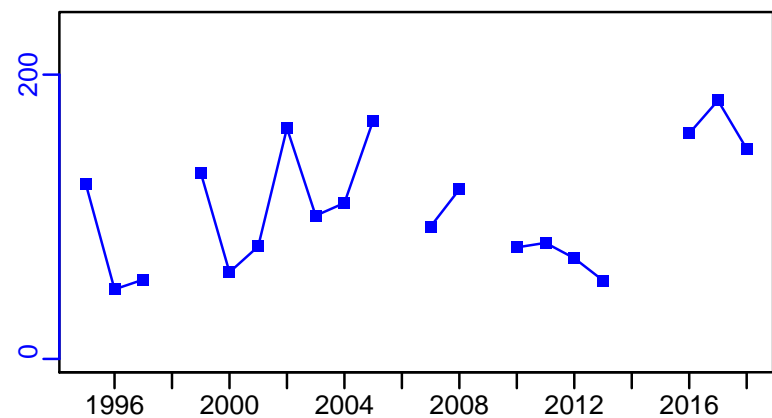
TC-MT, TL-MT, RecC* (1980-2018-ICESIMP2021)

TAC*, Cpair*, Cadv*



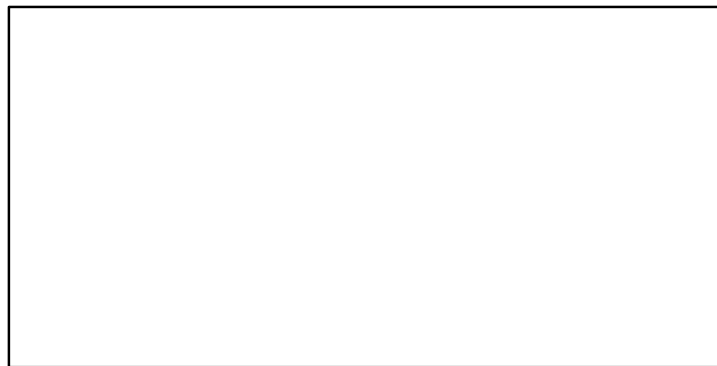
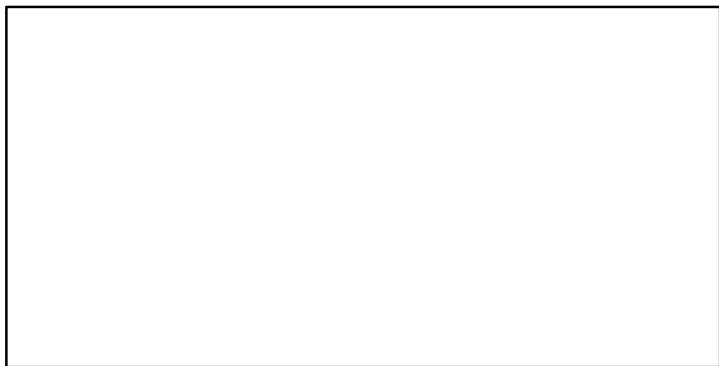
survB-index (1980-2018-ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



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

Beaked redfish Southeast Greenland [REDDEEPXIVb]

Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPXIVb-1974-2017-ICESIMP2018
Area	Southeast Greenland
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	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	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5980		
TL	TL-MT	2017	3030		
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

Beaked redfish Southeast Greenland [REDDEEPXIVb]

TB*



SSB*



TN *



F*



ER*

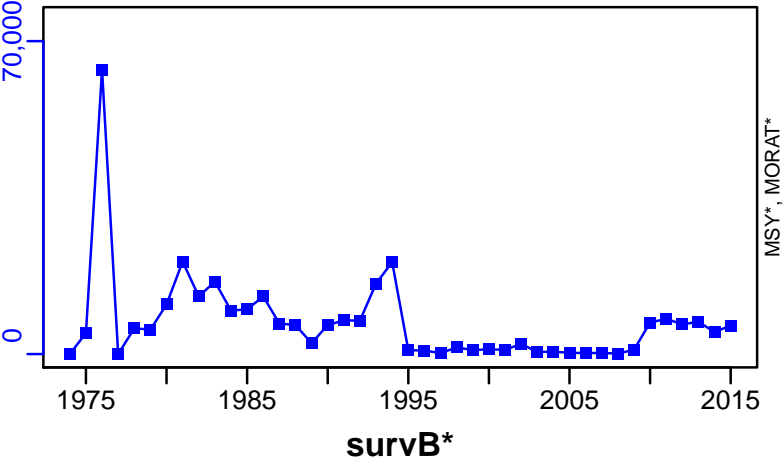


Recruits*



Beaked redfish Southeast Greenland [REDDEEPXIVb]

TC-MT, TL*, RecC* (1974–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



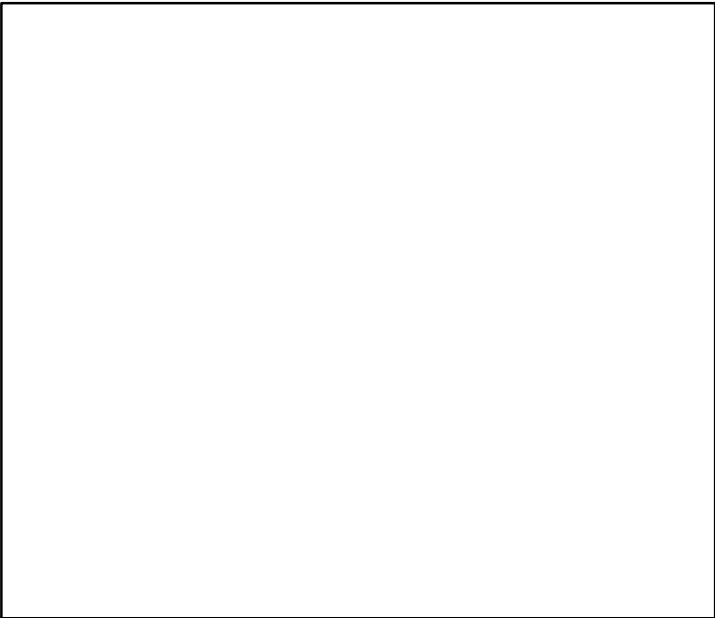
Red gurnard Northeast Atlantic [RGURNNEATL]

Metadata	
Scientific Name	Chelidonichthys cuculus
Current Assess ID	WGWIDE-RGURNNEATL-2006-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 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	4018		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

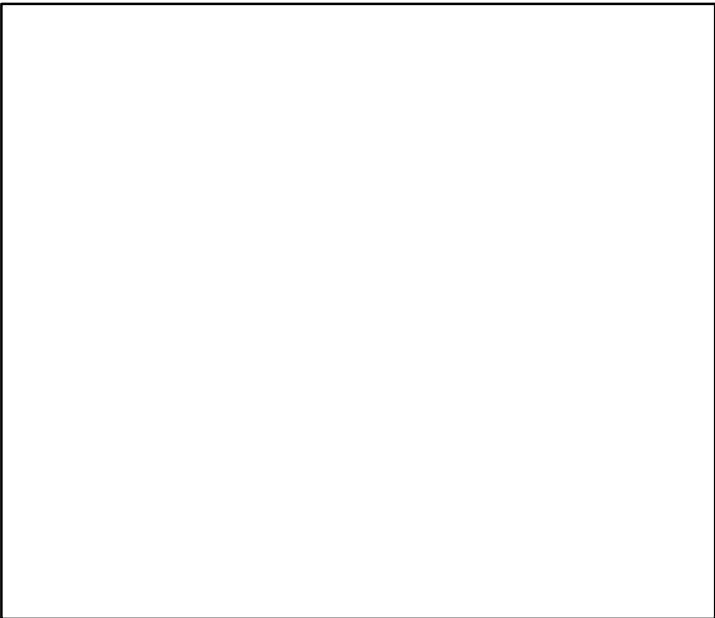
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red gurnard Northeast Atlantic [RGURNNEATL]

TB*



SSB*



TN *



F*



ER*

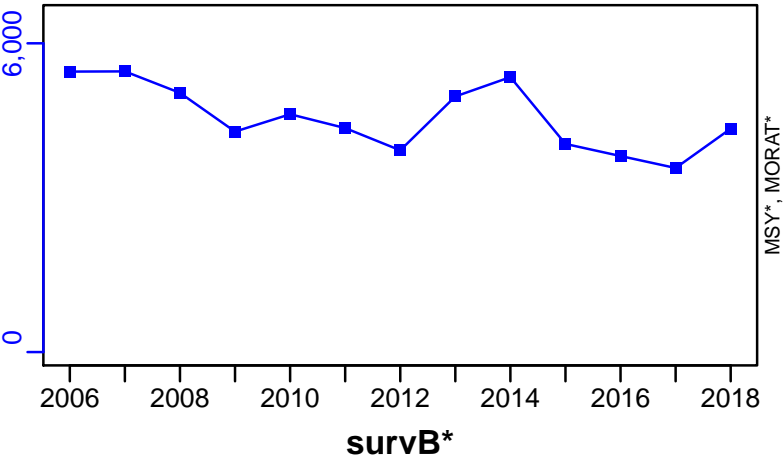


Recruits*



Red gurnard Northeast Atlantic [RGURNNEATL]

TL-MT, TC*, RecC* (2006–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



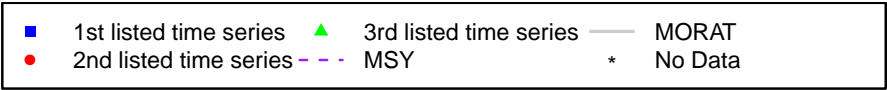
CPUE*



EFFORT*



CdivMSY*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

Metadata	
Scientific Name	Macrourus berglax
Current Assess ID	WGDEEP-RHGRENNEATL-1990-2015-ICESIMP2016
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

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	2015	654		
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*



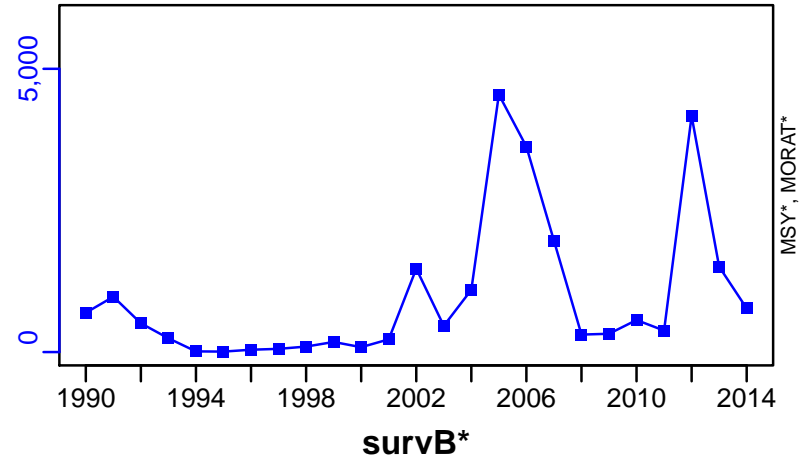
Recruits*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

TL-MT, TC*, RecC* (1990–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



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	-	-	-		

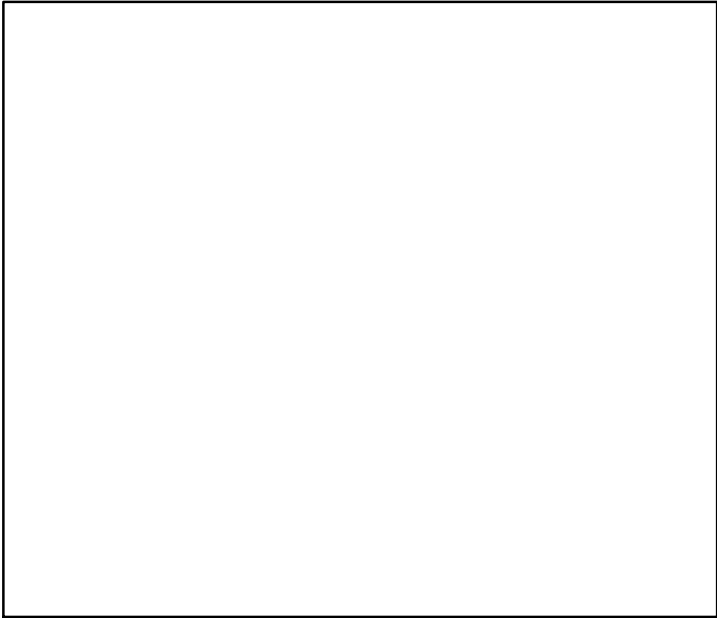
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



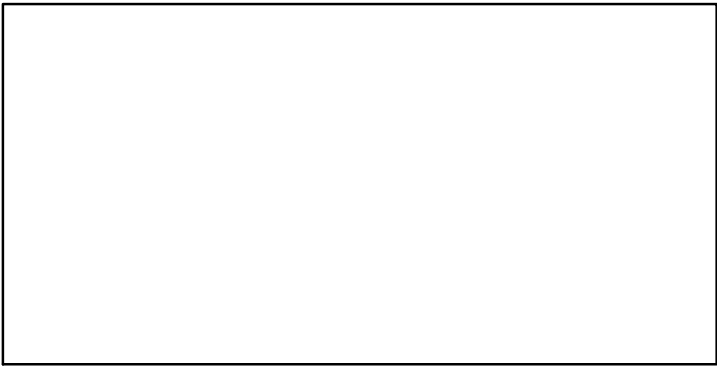
SSB*



TN *



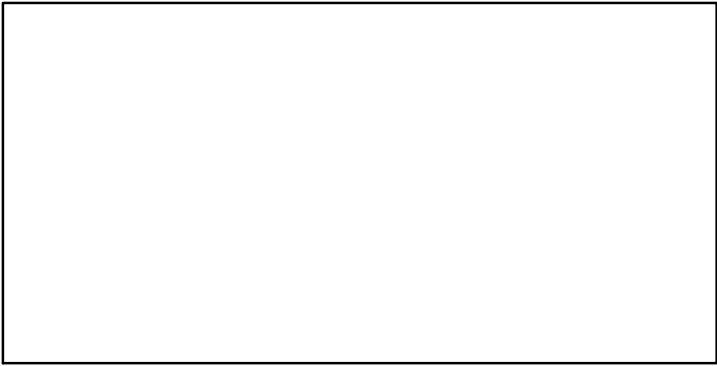
F*



ER*

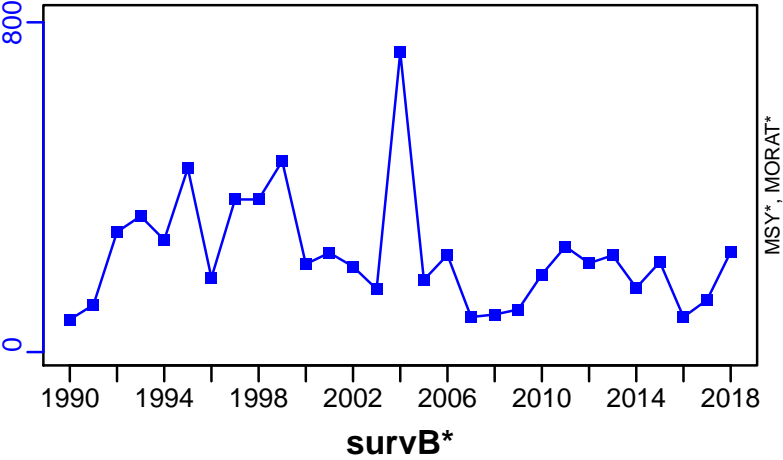


Recruits*



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*



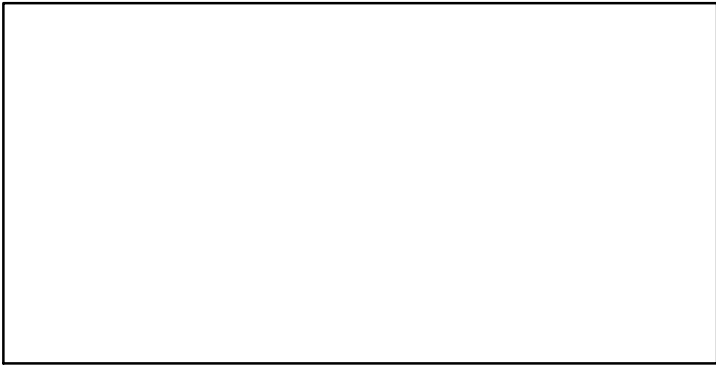
Production*



◆ Start Year ◆ End Year * No Data

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

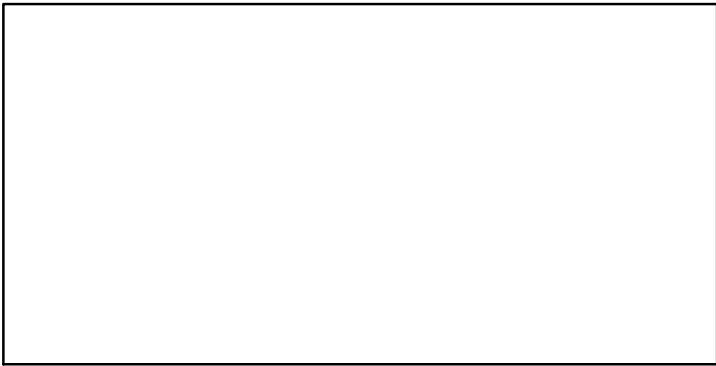
TB*



SSB*



TN *



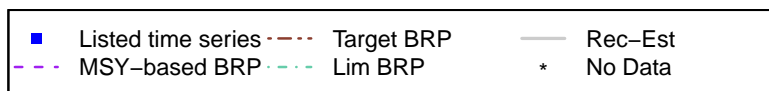
F*



ER*

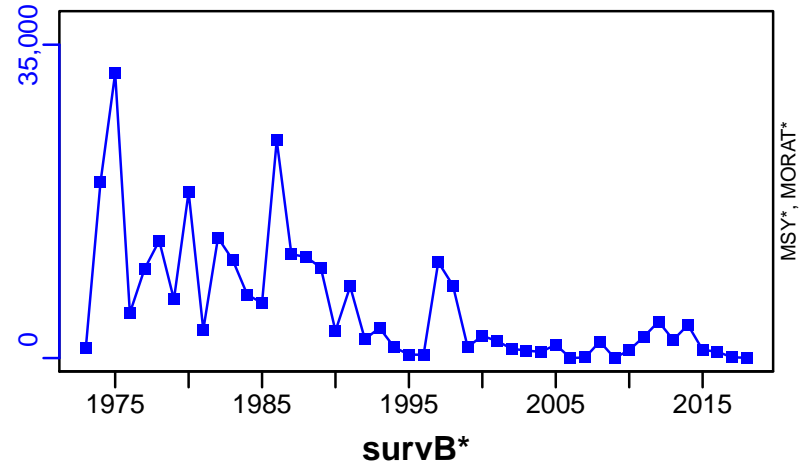


Recruits*

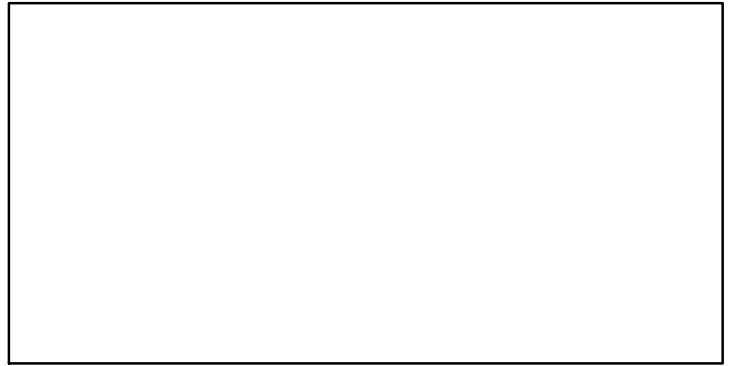


Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

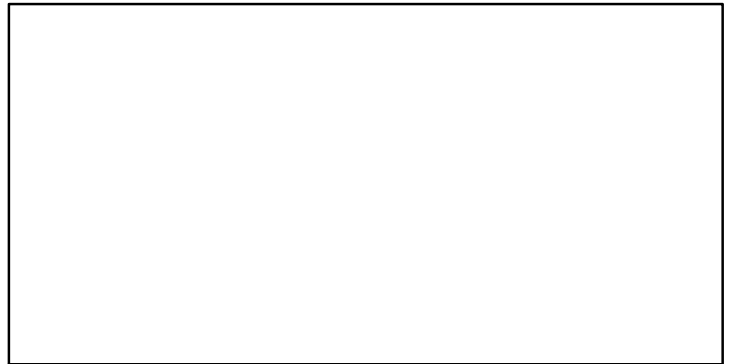
TL-MT, TC*, RecC* (1973-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



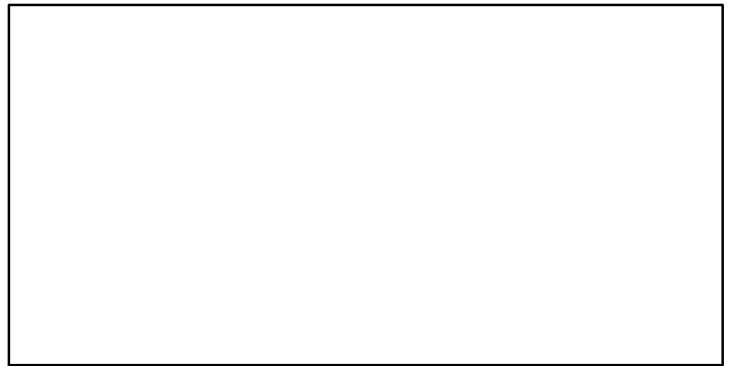
CPUE*



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-XIIb]

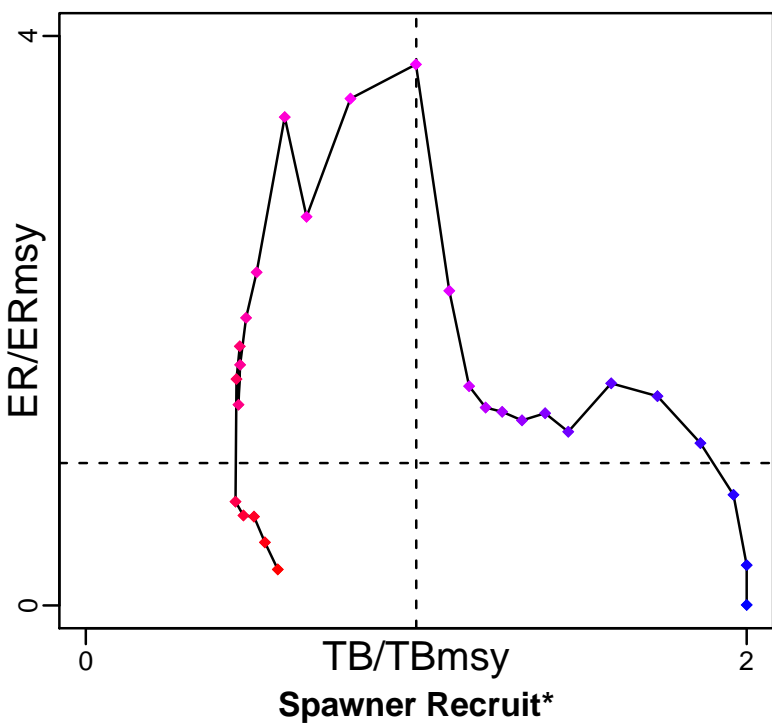
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENVb-VI-VII-XIIb-1988-2017-ICESIMP2018
Area	ICES 5b-6-7-12b
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

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

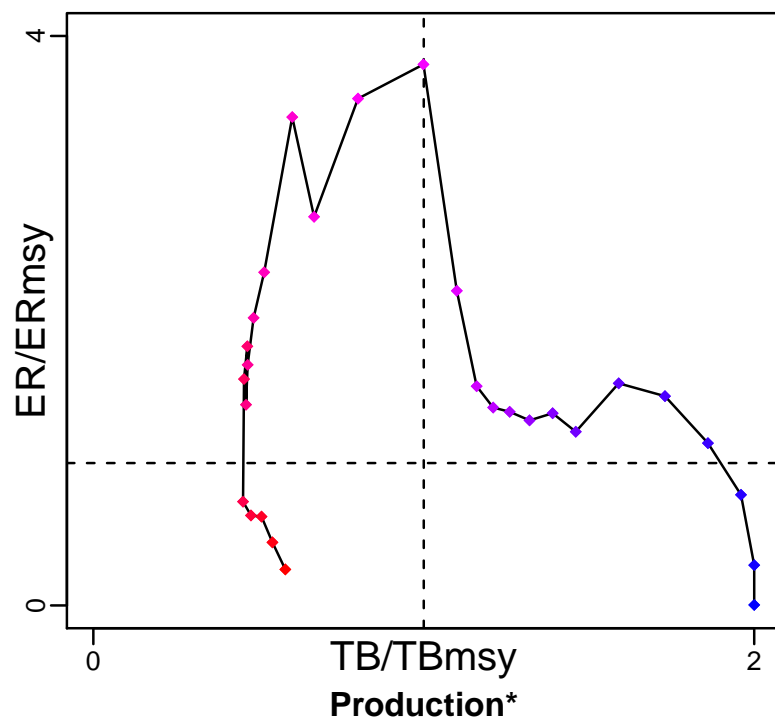
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	1660		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.581		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2016	0.253		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1988-2016-ICESIMP2016)



Kobe MGTpref (1988-2016-ICESIMP2016)



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



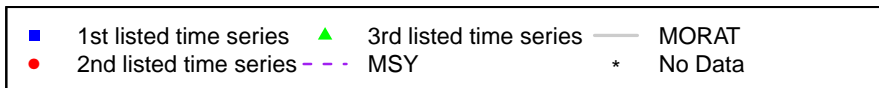
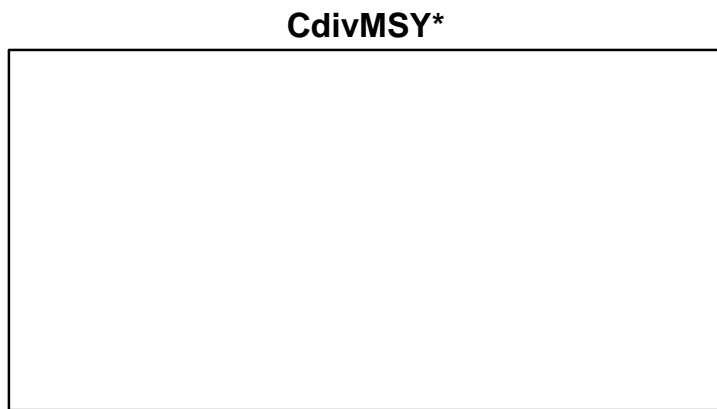
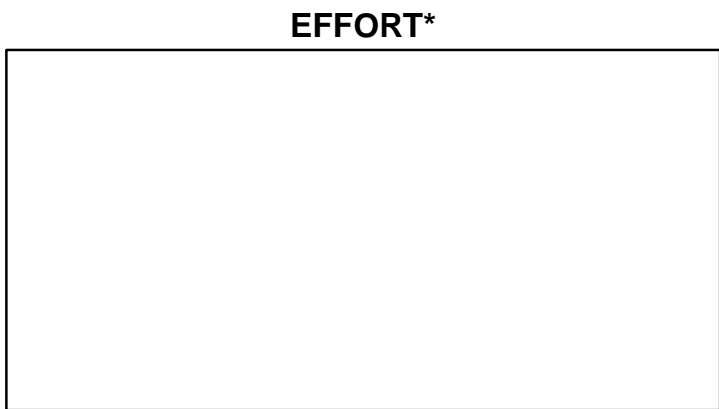
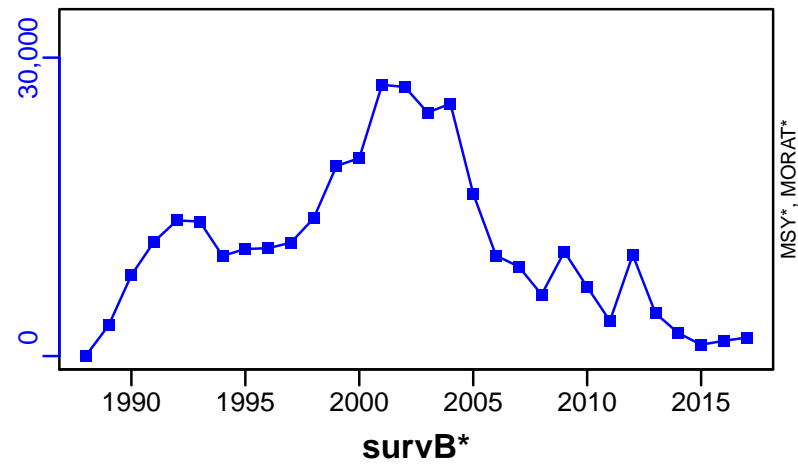
Recruits*



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

TL-MT, TC*, RecC* (1988-2017-ICESIMP2018)

TAC*, Cpair*, Cadv*



Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGRENIIIa-1988-2017-ICESIMP2018
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	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	-	-	-

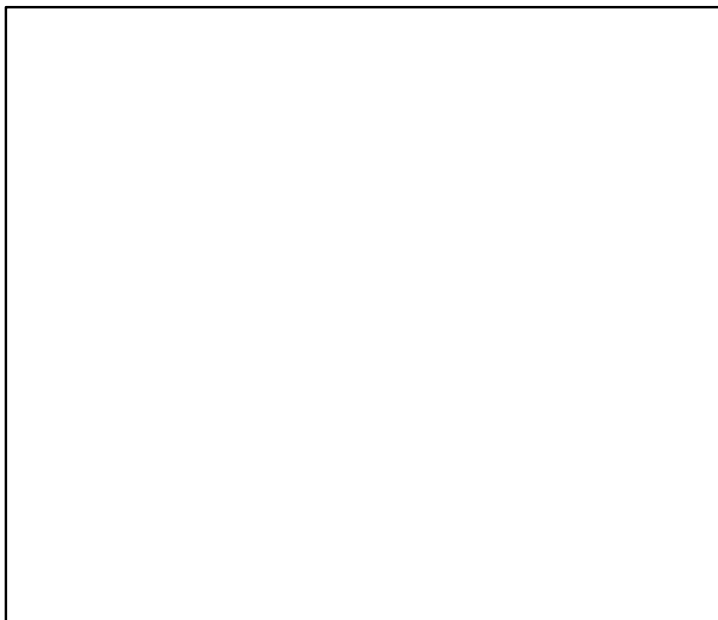
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2		
TL	TL-MT	2017	1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

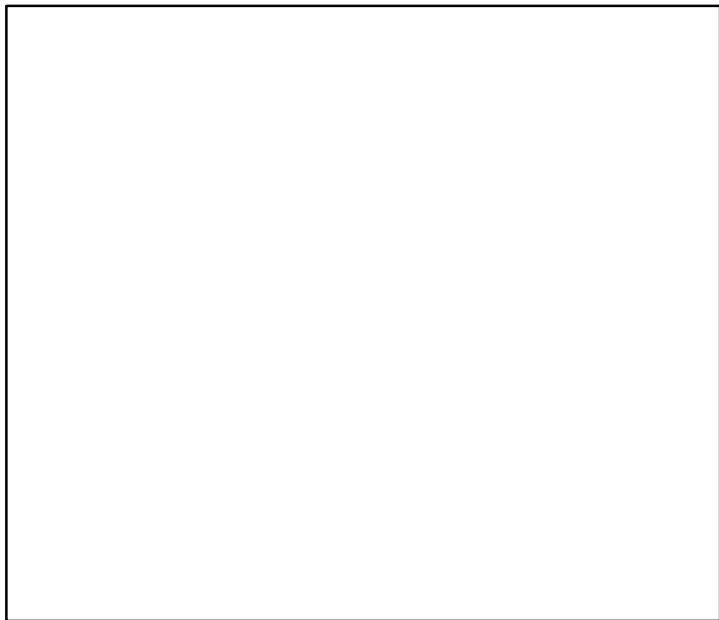
Kobe MSY*



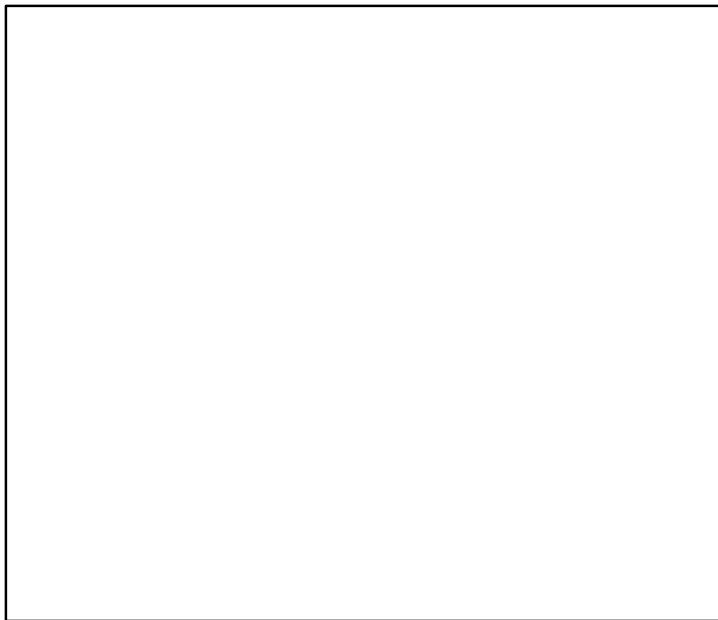
Kobe MGT*



Spawner Recruit*



Production*



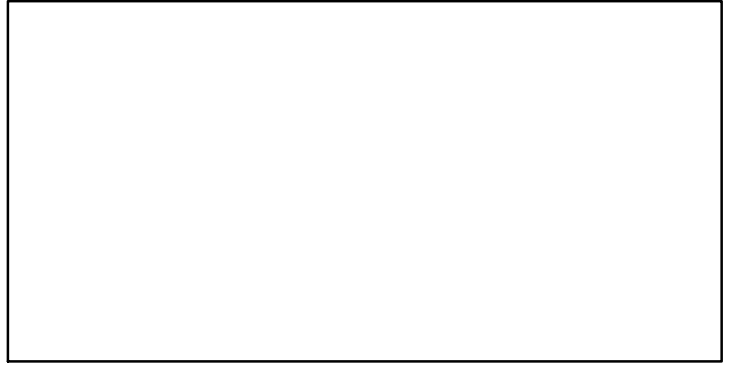
◆ Start Year ◆ End Year * No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

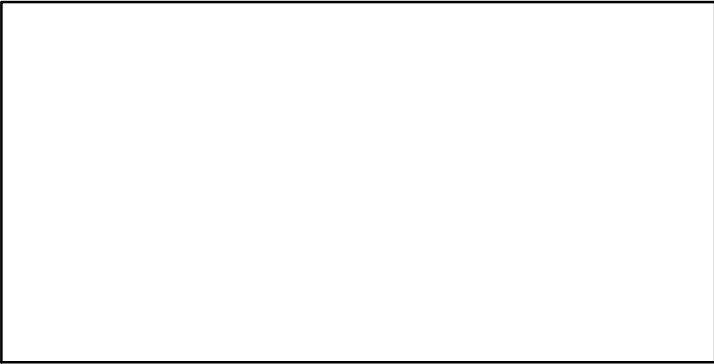
TB*



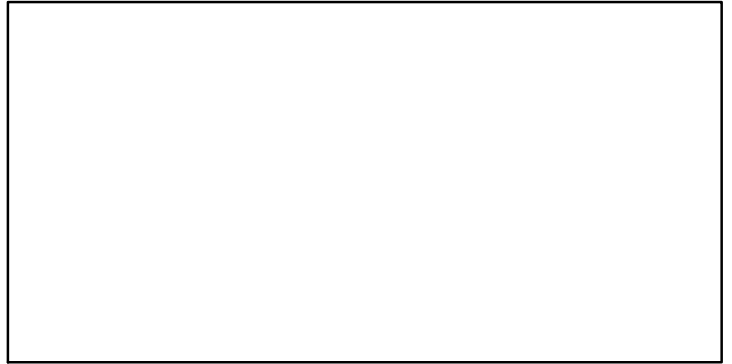
SSB*



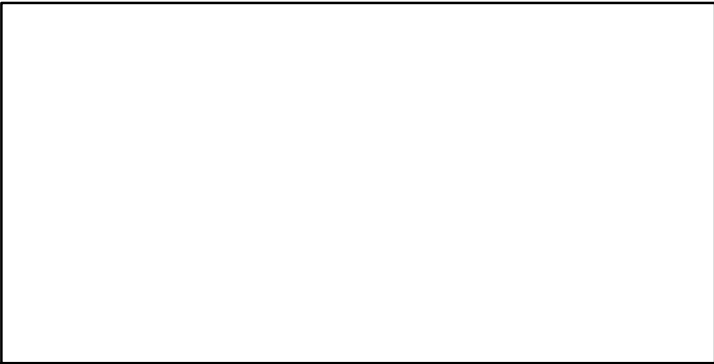
TN *



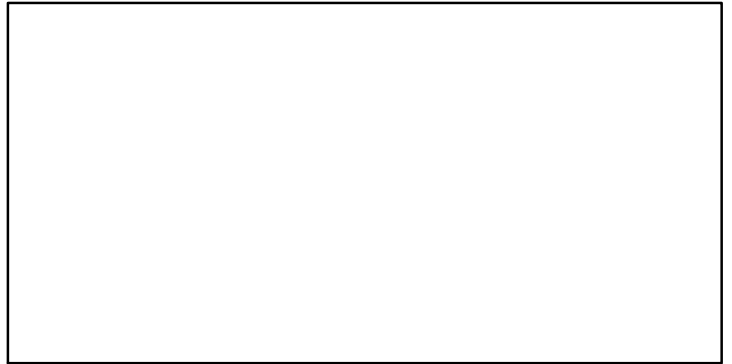
F*



ER*



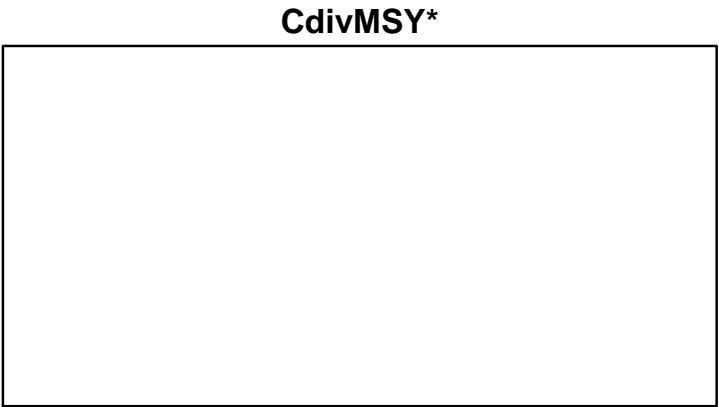
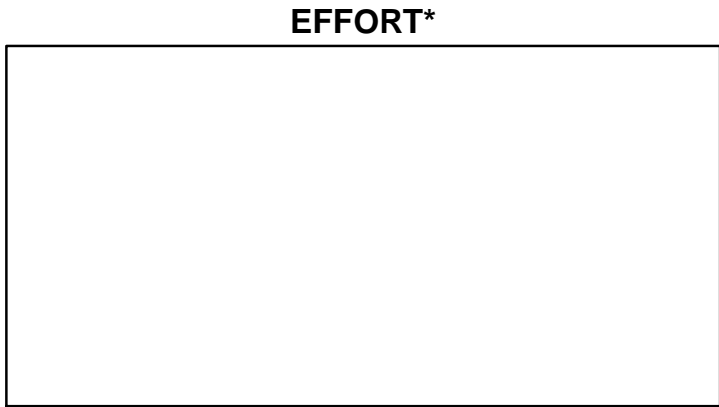
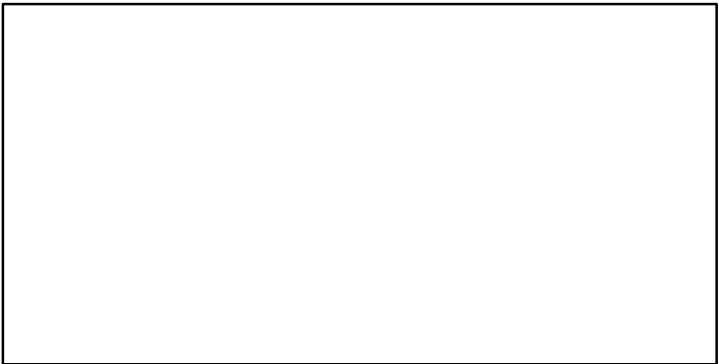
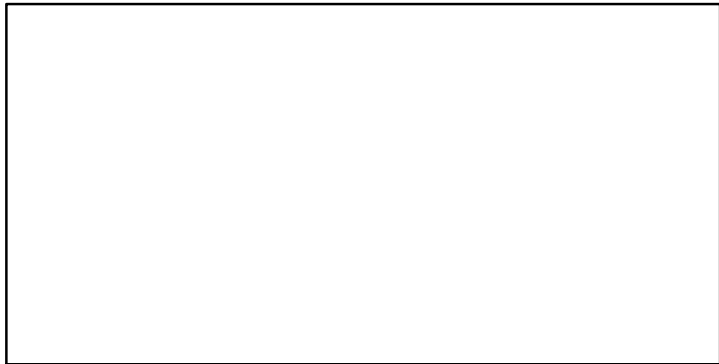
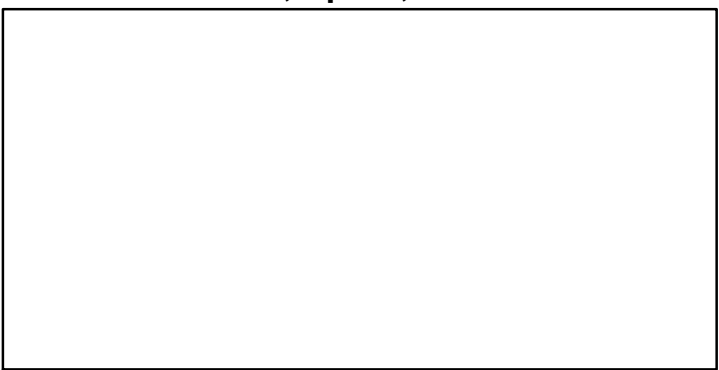
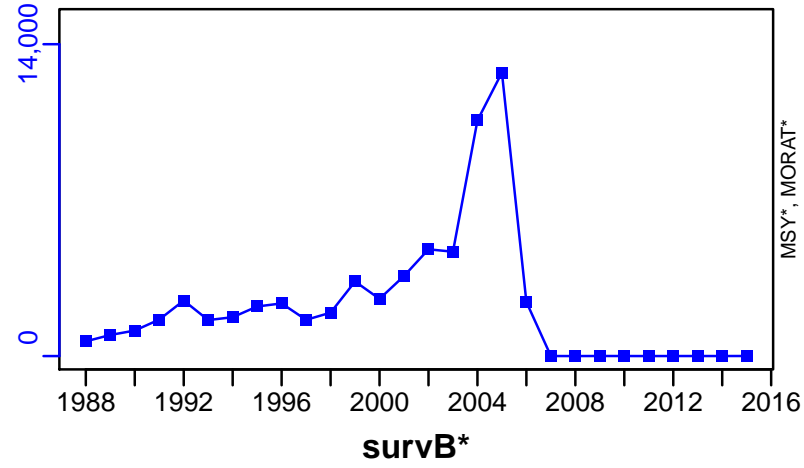
Recruits*



Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

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

TAC*, Cpair*, Cadv*



Sardine ICES 8c-9a [SARDPVIlIc-IXa]

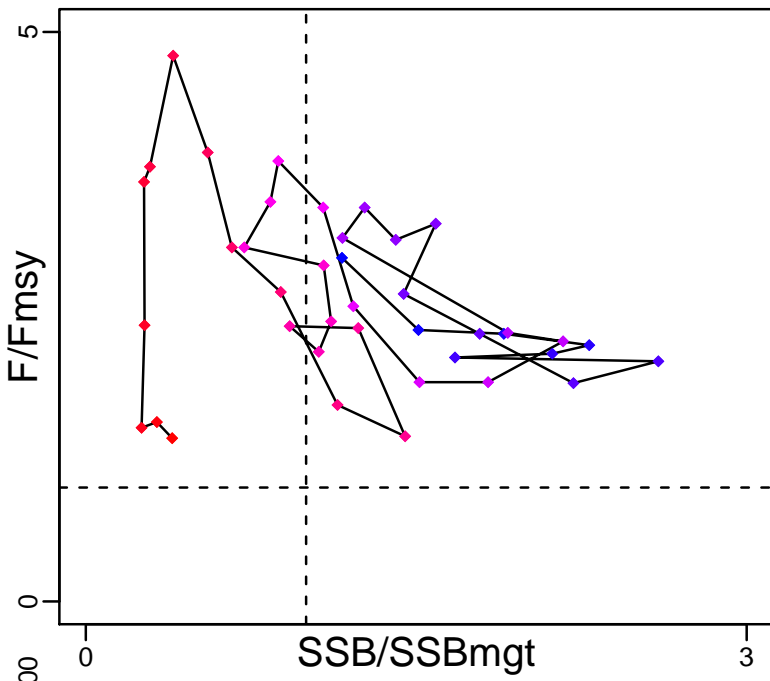
Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDPVIlIc-IXa-1978-2018-ICESIMP2018
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	474,018
SSBmsy	SSBmsy-est-MT	2011	541,285
Fmsy	Fmsy-1/yr	2018	0.12
ERmsy	ERmsy-est-ratio	2018	0.346
TBmgt	TBmgt-MT	2016	368,400
SSBmgt	SSBmgt-MT	2018	446,331
Fmgt	Fmgt-1/yr	2018	0.12
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	146,474
M	M-1/yr	2011	0.33
TBlim	TBlim-MT	2015	135,000
SSBlim	SSBlim-MT	2018	337,448
Flim	Flim-1/yr	2018	0.25
ERlim	-	-	-

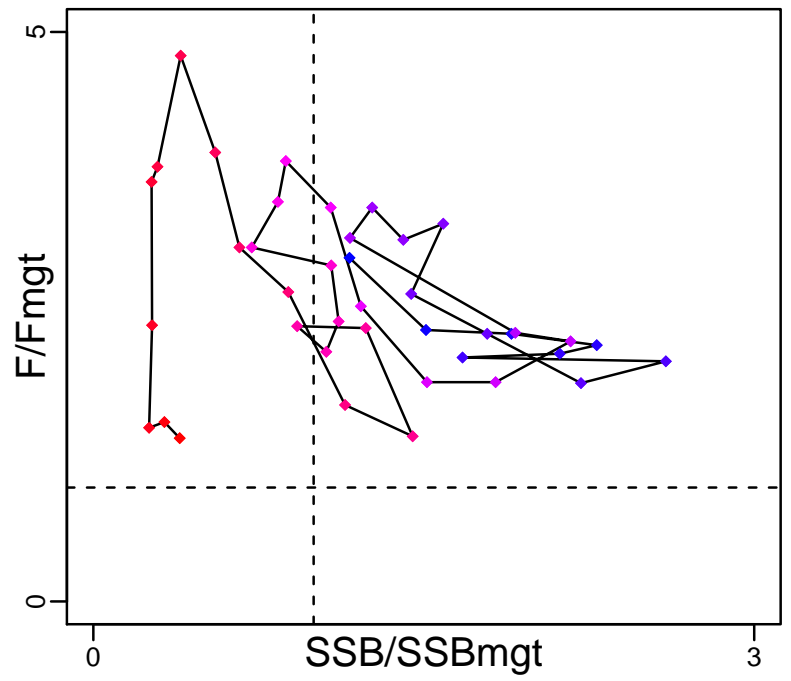
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	147,000	Both	-
SSB	SSB-MT	2018	149,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.19×10^9	-	0
F	F-1/yr	2018	0.172	-	2 to 5
ER	ER-calc-ratio	2018	0.142	-	-
TC	TC-MT	2018	21,900		
TL	TL-MT	2018	21,900		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.359		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2011	0.321		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.433		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.412		
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.54		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.334		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.433		
ER/ERmgt	-	-	-		

Sardine ICES 8c-9a [SARDPVIIIc-IXa]

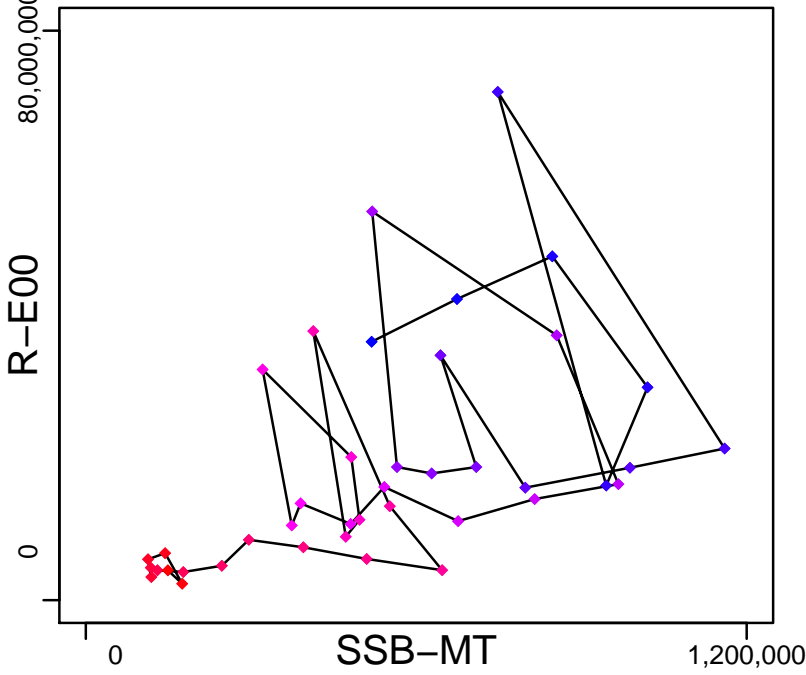
Kobe MSYpref (1978-2018-ICESIMP2018)



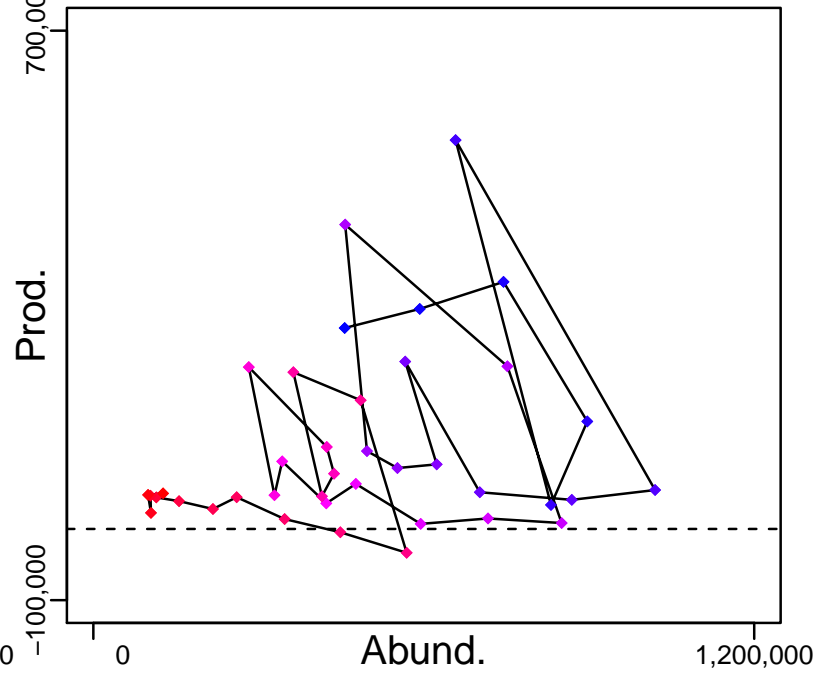
Kobe MGTpref (1978-2018-ICESIMP2018)



Spawner Recruit (1978-2018-ICESIMP2018)



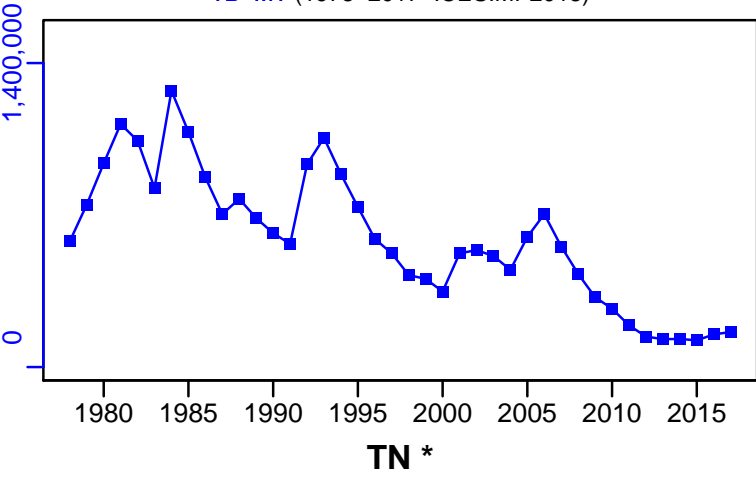
Production (1978-2018-ICESIMP2018)



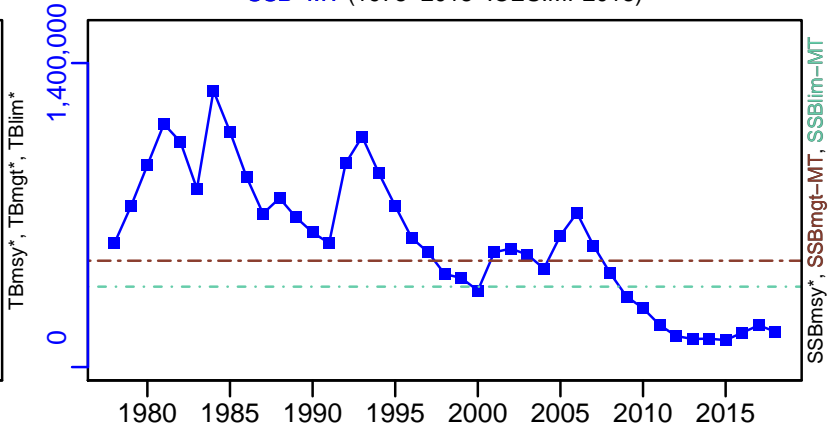
◆ Start Year ◆ End Year * No Data

Sardine ICES 8c-9a [SARDPVIlIc-IXa]

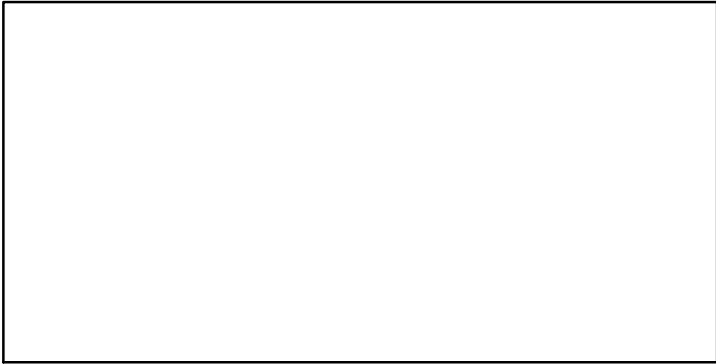
TB-MT (1978-2017-ICESIMP2018)



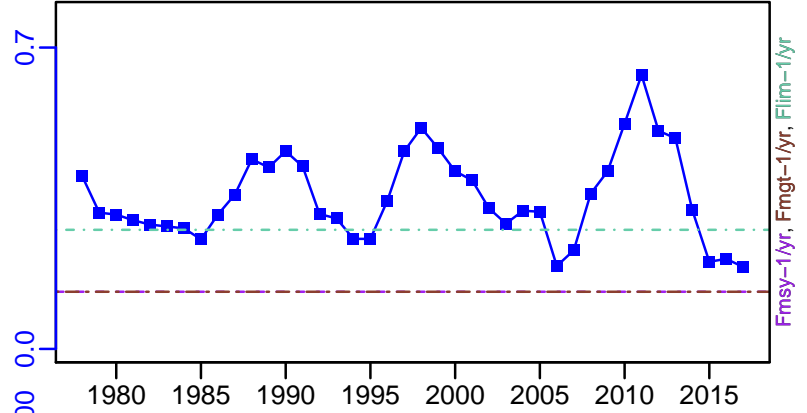
SSB-MT (1978-2018-ICESIMP2018)



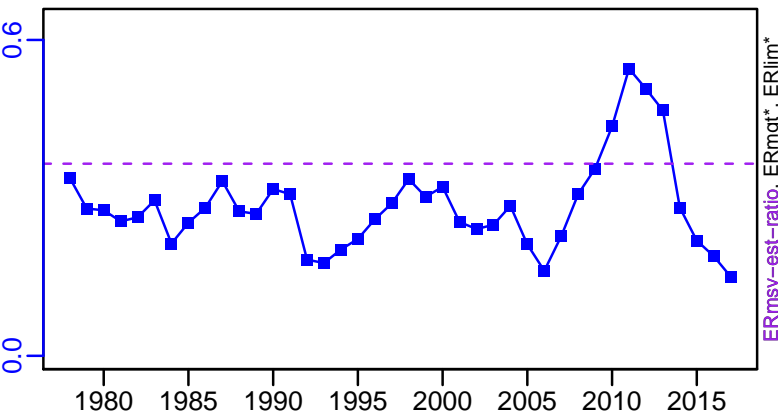
TN *



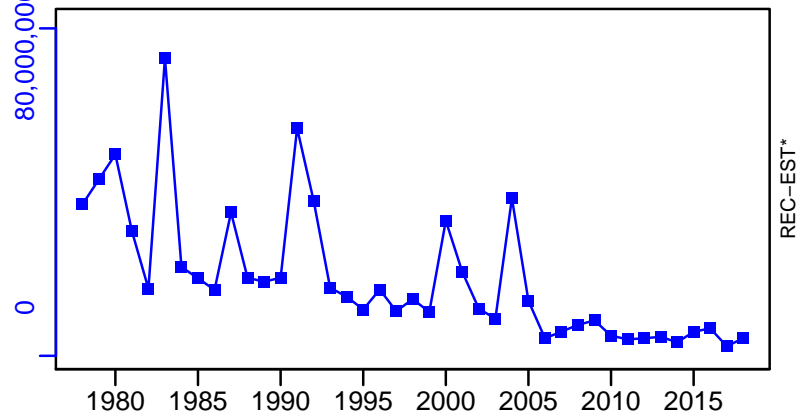
F-1/yr (1978-2018-ICESIMP2018)



ER-calc-ratio (1978-2018-ICESIMP2018)



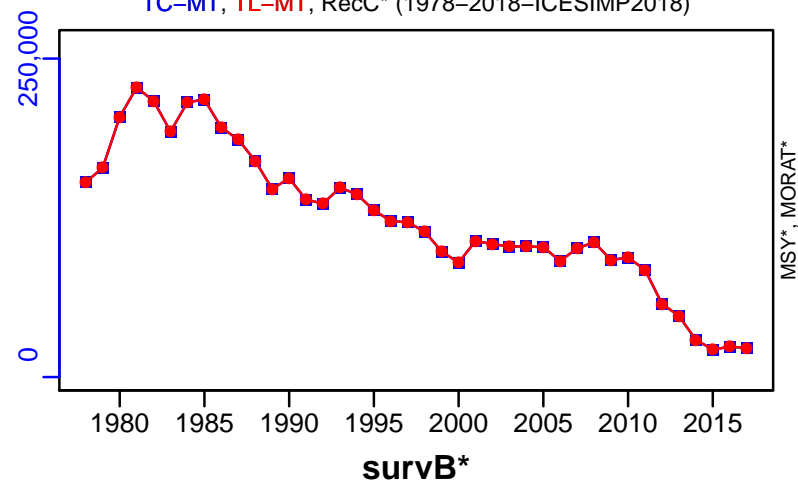
R-E00 (1978-2018-ICESIMP2018)



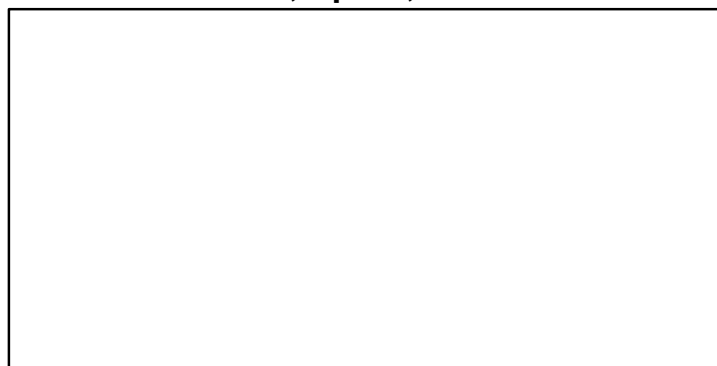
Sardine ICES 8c-9a [SARDPVIIIc-IXa]

TC-MT, TL-MT, RecC* (1978-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



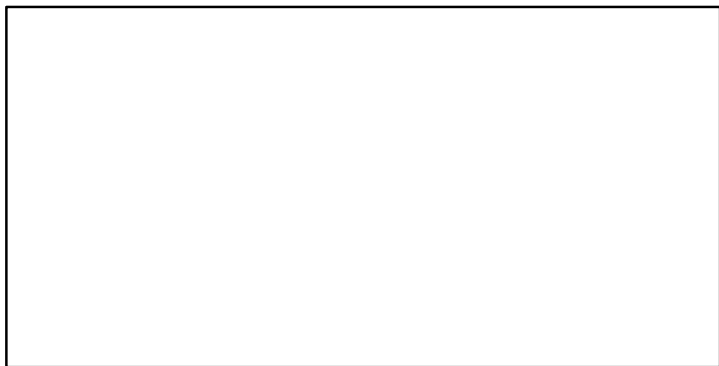
MSY*, MORAT*



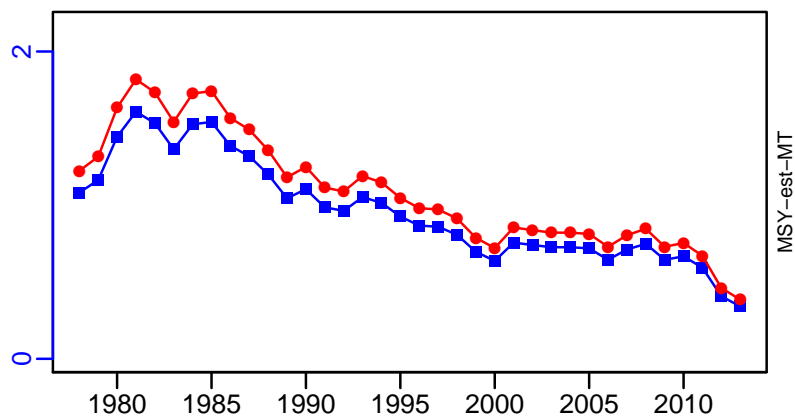
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2014-ICESIMP2016)



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

Sardine ICES 7 [SARDVII]

Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDVII-1970-2018-ICESIMP2021
Area	ICES 7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
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	-	-	-		
TL	TL-MT	2018	10,412		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



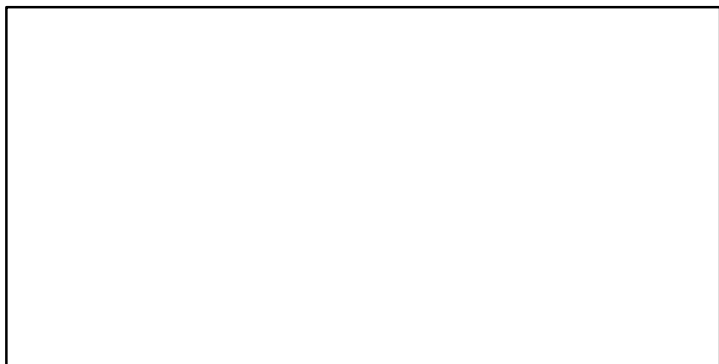
Production*



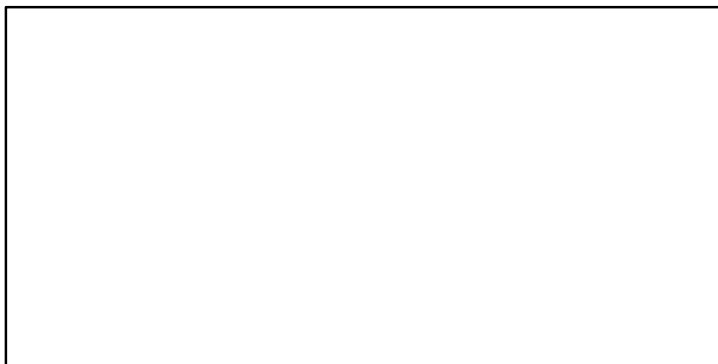
◆ Start Year ◆ End Year * No Data

Sardine ICES 7 [SARDVII]

TB*



SSB*



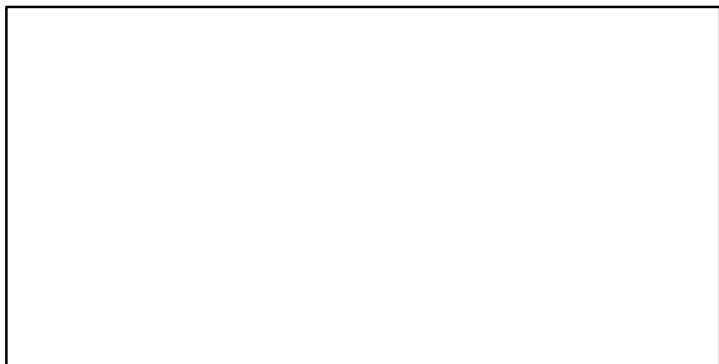
TN *



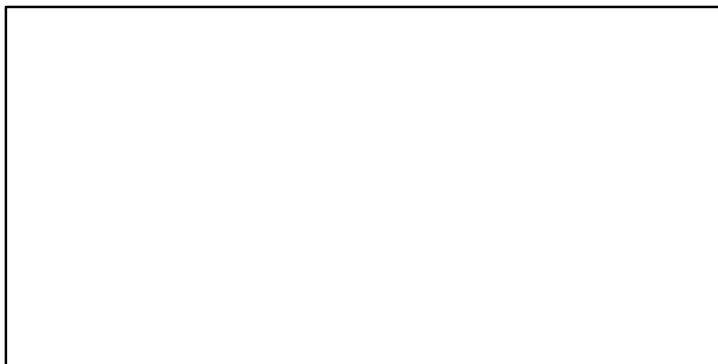
F*



ER*

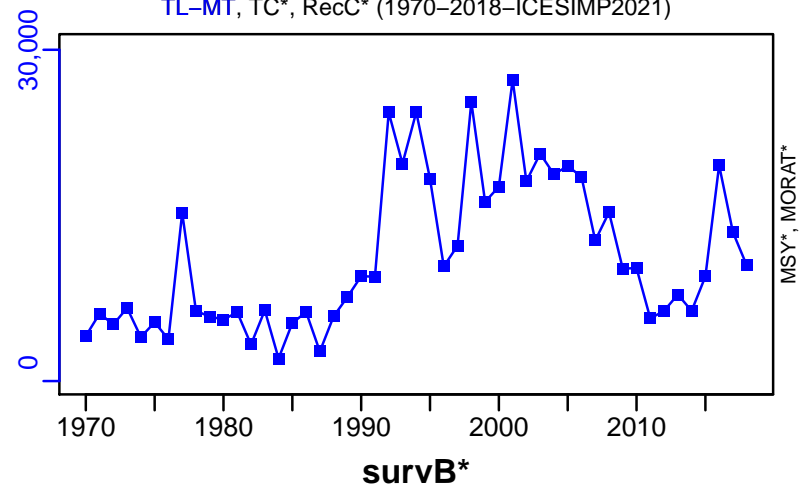


Recruits*



Sardine ICES 7 [SARDVII]

TL-MT, TC*, RecC* (1970–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



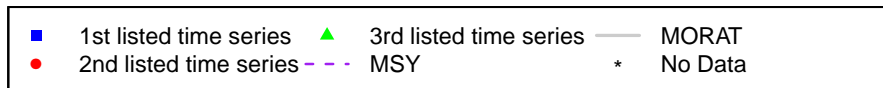
CPUE*



EFFORT*



CdivMSY*



Sardine ICES 8abd [SARDVIIIabd]

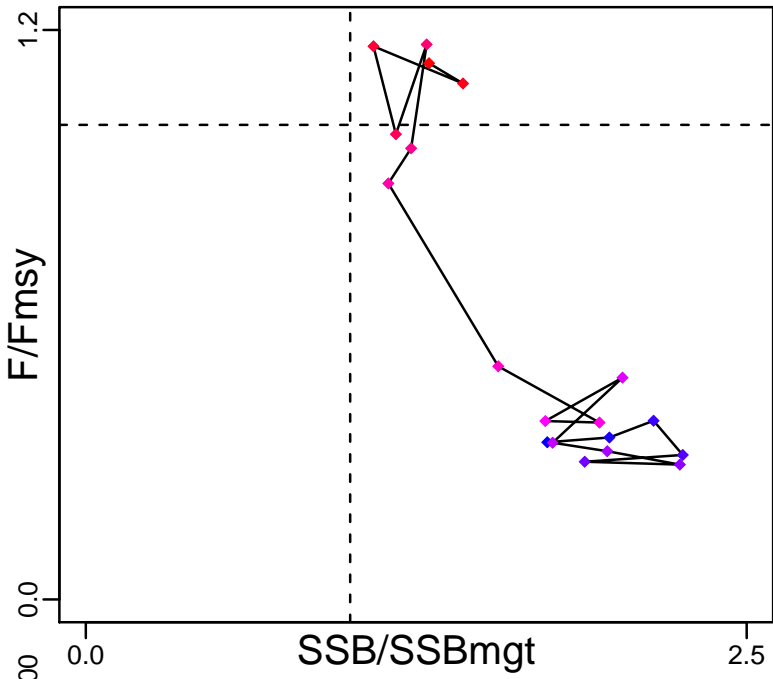
Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDVIIIabd-2000-2019-ICESIMP2021
Area	ICES 8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2019, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.453
ERmsy	ERmsy-est-ratio	2019	0.565
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	78,700
Fmgt	Fmgt-1/yr	2019	0.453
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	63,328
Flim	Flim-relative	2018	0.478
ERlim	-	-	-

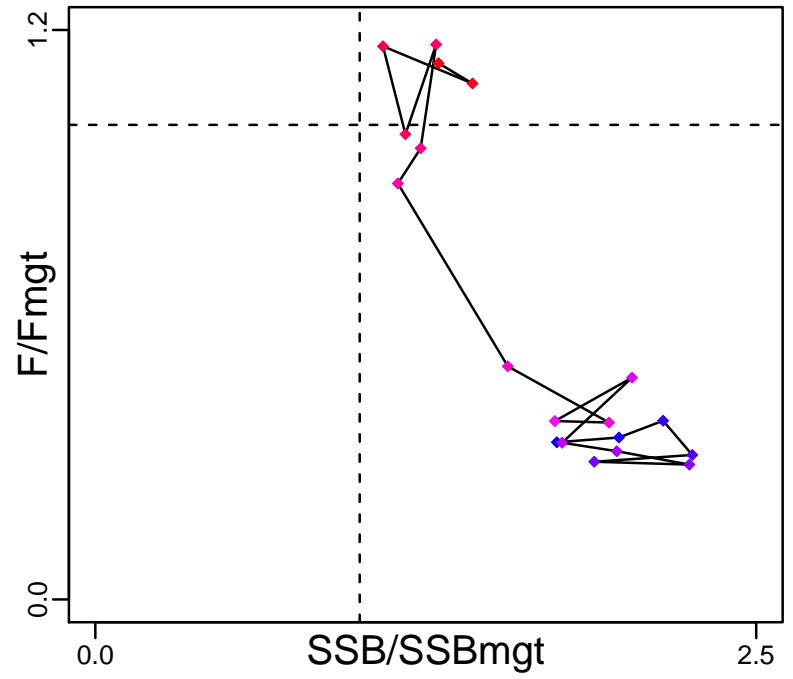
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	100,828	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,899,952,193	-	0
F	F-1/yr	2019	0.512	-	2 to 5
ER	ER-calc-ratio	2019	0.395	-	-
TC	TC-MT	2019	32,299		
TL	TL-MT	2018	30,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.13		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.698		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.281		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.13		
ER/ERmgt	-	-	-		

Sardine ICES 8abd [SARDVIlIabd]

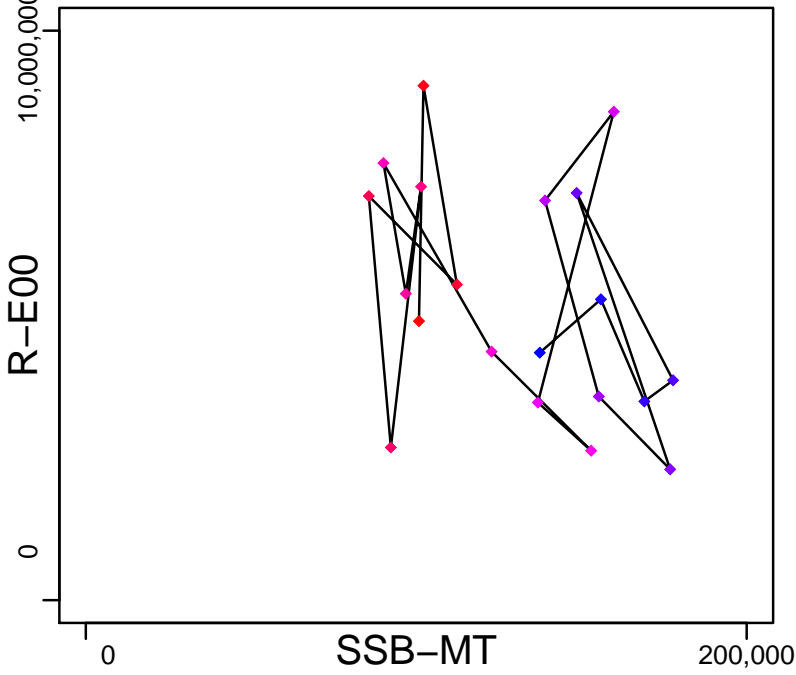
Kobe MSYpref (2000–2019–ICESIMP2021)



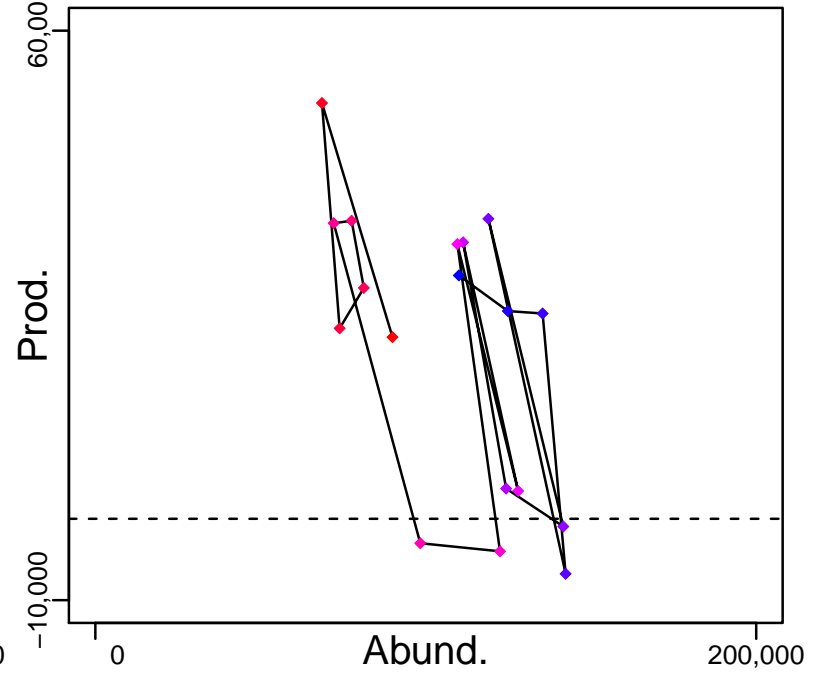
Kobe MGTpref (2000–2019–ICESIMP2021)



Spawner Recruit (2000–2019–ICESIMP2021)



Production (2000–2019–ICESIMP2021)



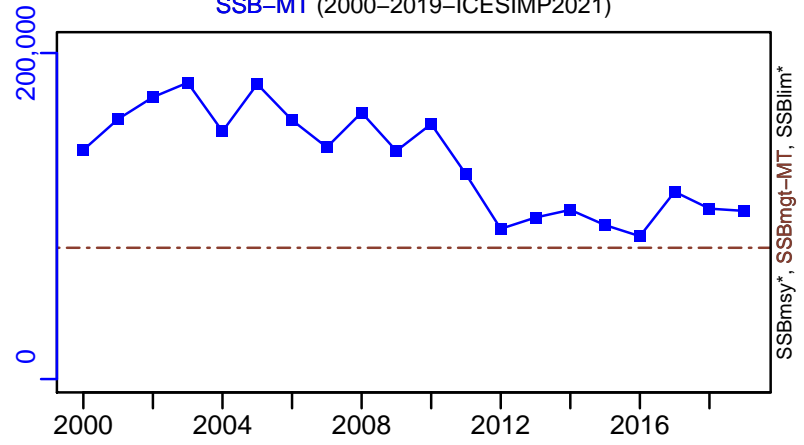
◆ Start Year ◆ End Year * No Data

Sardine ICES 8abd [SARDVIlIabd]

TB*



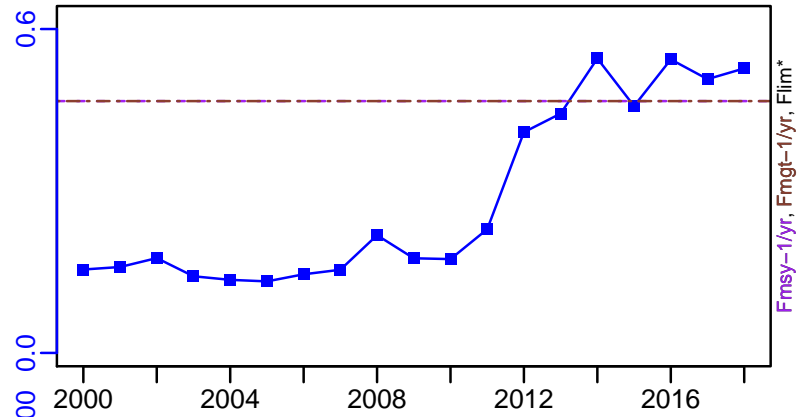
SSB-MT (2000–2019–ICESIMP2021)



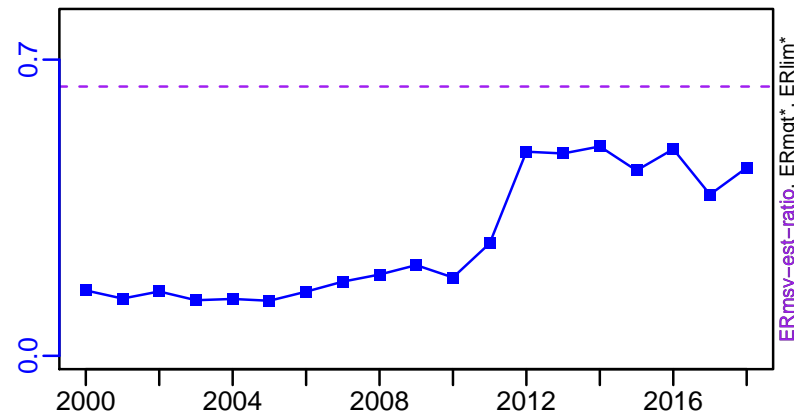
TN *



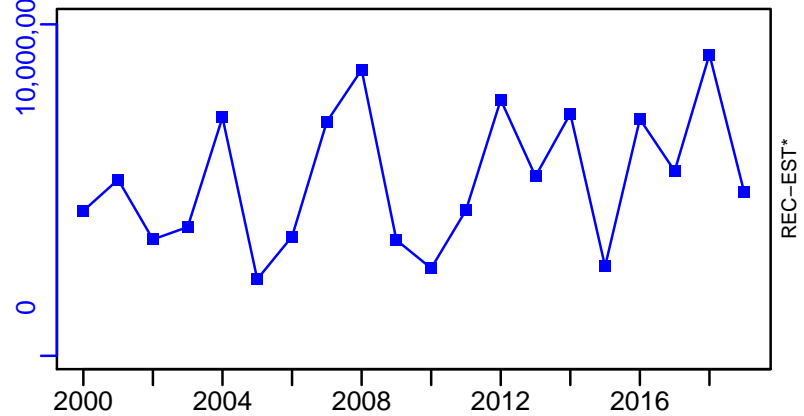
F-1/yr (2000–2019–ICESIMP2021)



ER-calc-ratio (2000–2019–ICESIMP2021)

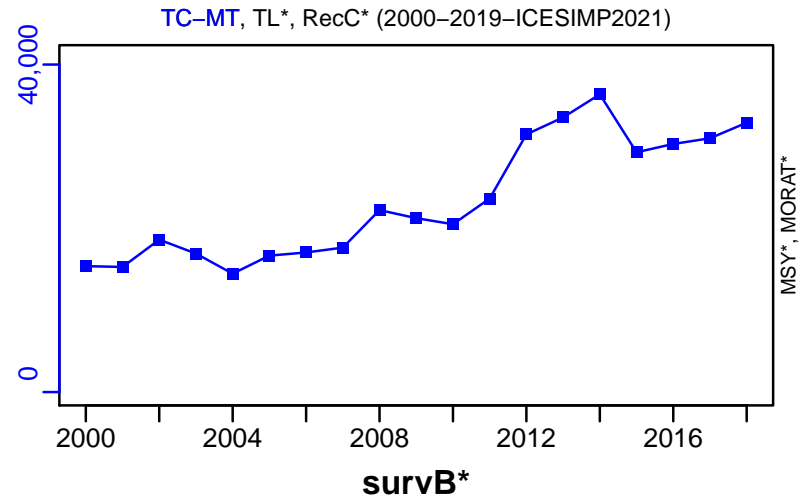


R-E00 (2000–2019–ICESIMP2021)



Sardine ICES 8abd [SARDVIIIabd]

TC-MT, TL*, RecC* (2000–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sandy ray ICES 6-7 [SDRAYVI-VII]

Metadata	
Scientific Name	Leucoraja circularis
Current Assess ID	WGEF-SDRAYVI-VII-2009-2015-ICESIMP2018
Area	ICES 6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	63		
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*

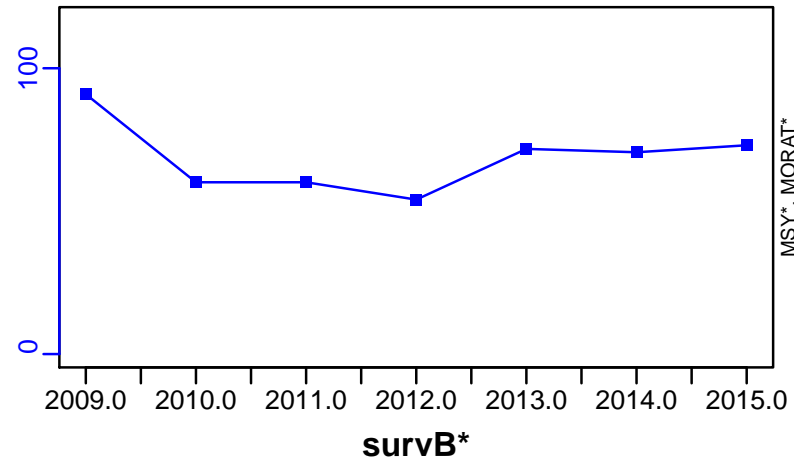


Recruits*



Sandy ray ICES 6-7 [SDRAYVI-VII]

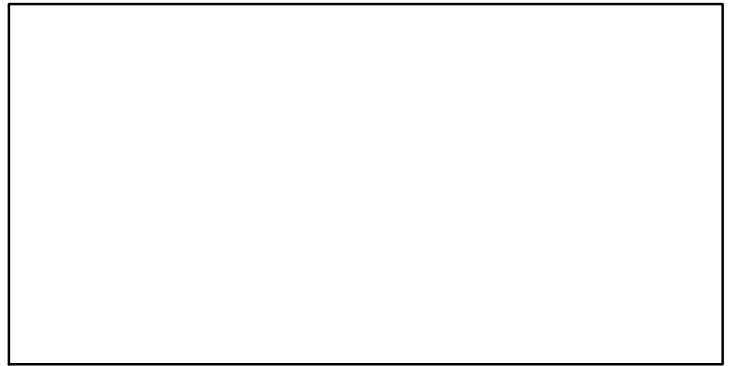
TL-MT, TC*, RecC* (2009-2015-ICESIMP2018)



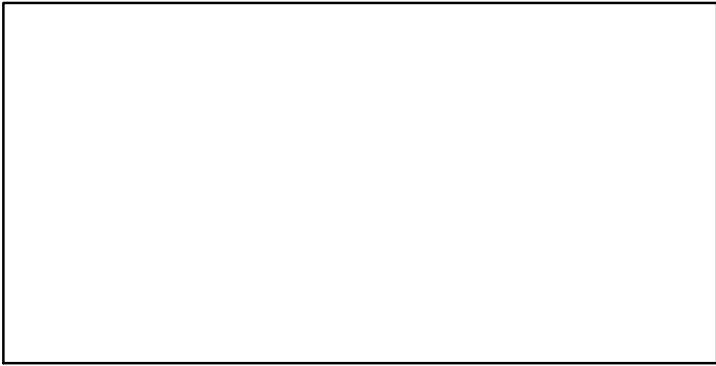
TAC*, Cpair*, Cadv*



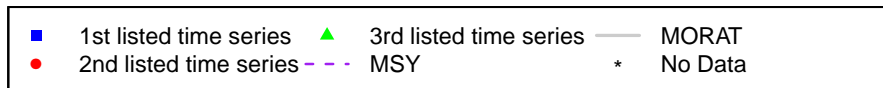
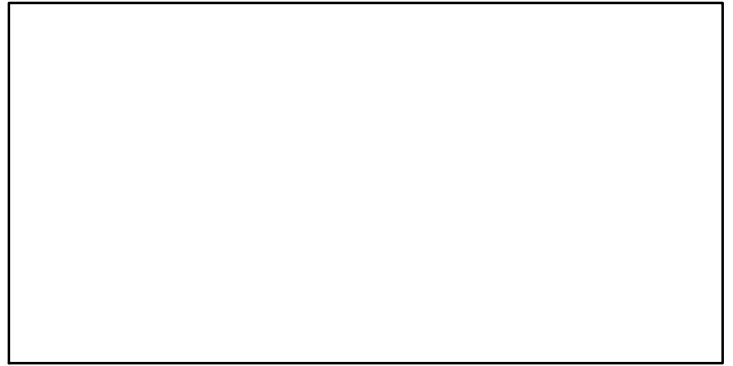
CPUE*



EFFORT*



CdivMSY*



Sand eel Sandeel Area 1 [SEELNSSA1]

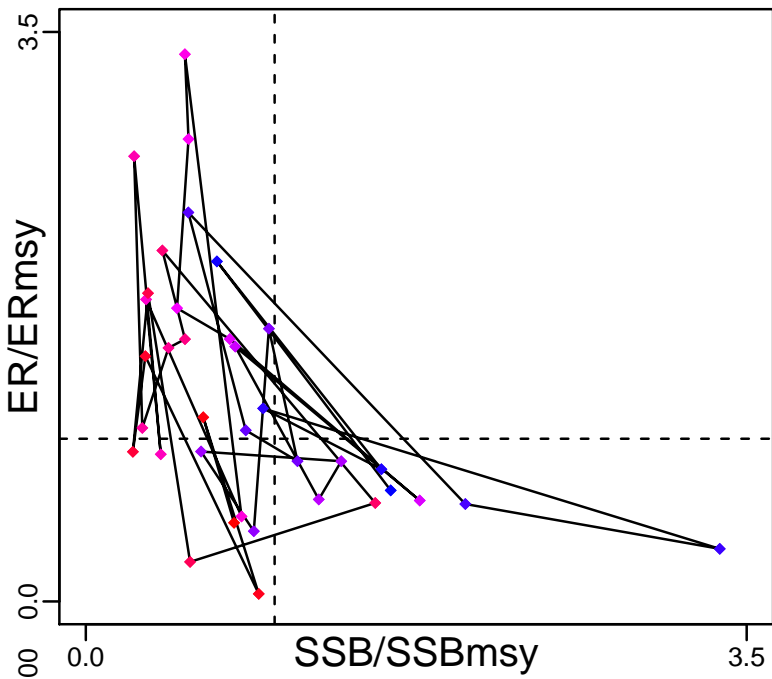
Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA1-1983-2019-ICESIMP2021
Area	Sandeel Area 1
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	767,066
SSBmsy	SSBmsy-est-MT	2019	295,326
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.516
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	145,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	343,668
M	-	-	-
TBlim	TBlim-MT	2011	160,000
SSBlim	SSBlim-MT	2018	110,000
Flim	-	-	-
ERlim	-	-	-

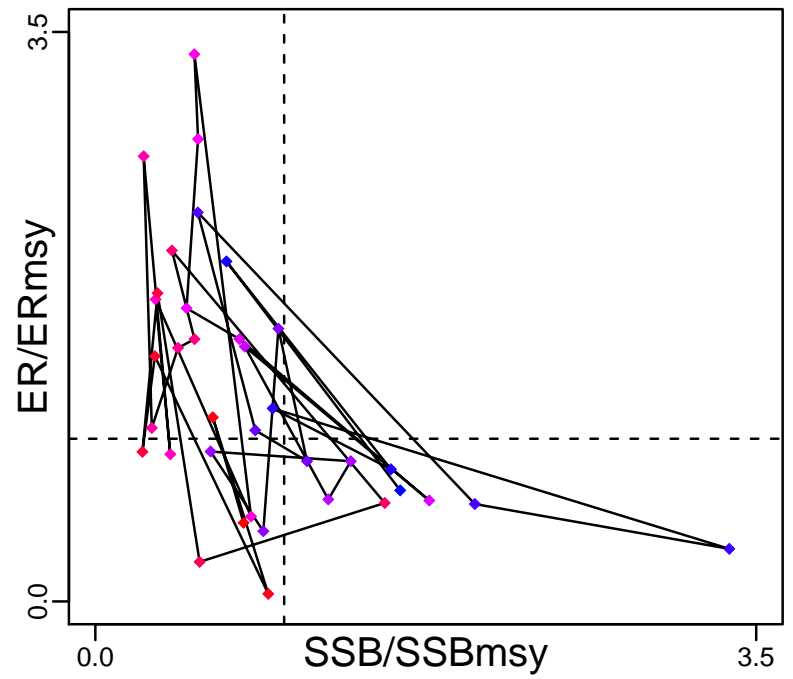
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	351,000	Both	-
SSB	SSB-MT	2019	97,636	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.0787×10^{11}	-	0
F	F-1/yr	2019	0.633	-	1 to 2
ER	ER-calc-ratio	2019	0.25	-	-
TC	TC-MT	2019	130,460		
TL	TL-MT	2019	130,460		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.995		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	0.331		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.483		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.917		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel Sandeel Area 1 [SEELNSSA1]

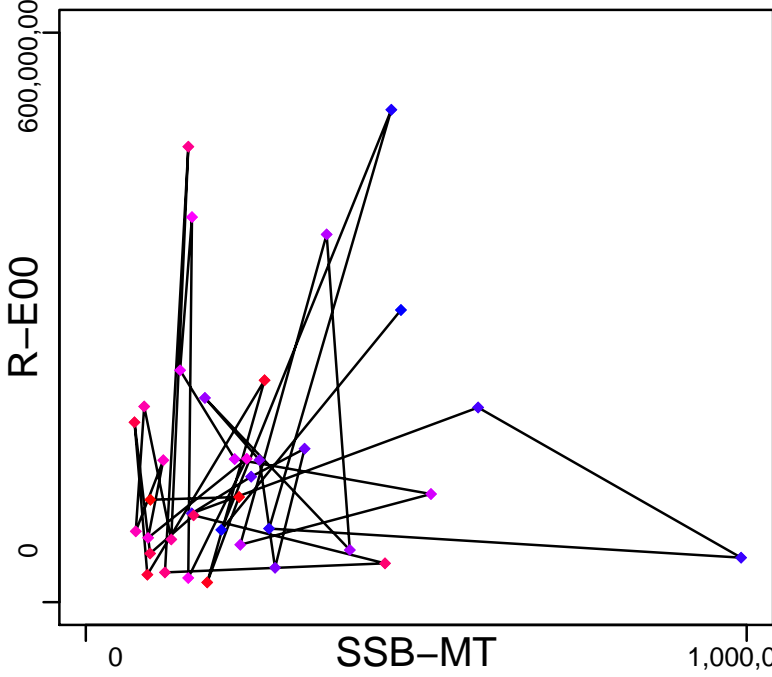
Kobe MSYpref (1983–2019–ICESIMP2021)



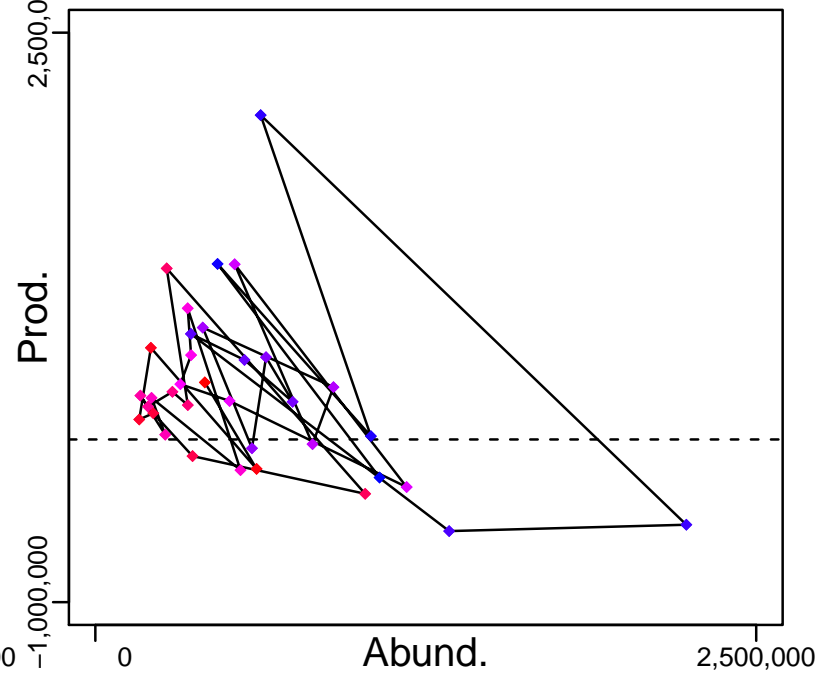
Kobe MGTpref (1983–2019–ICESIMP2021)



Spawner Recruit (1983–2019–ICESIMP2021)



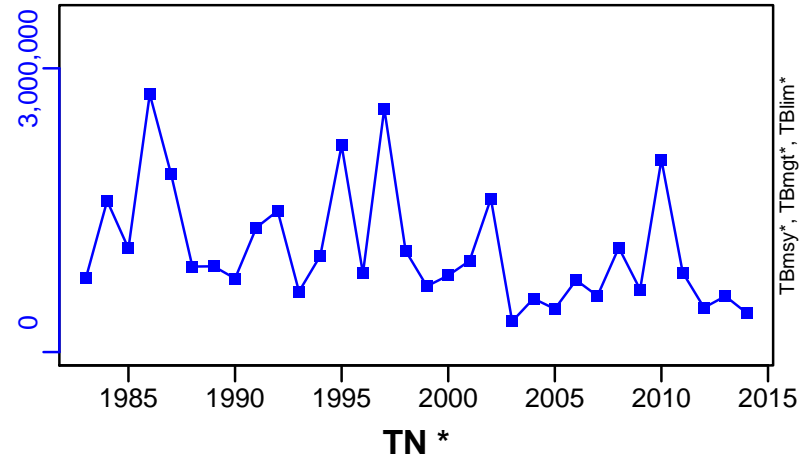
Production (1983–2019–ICESIMP2021)



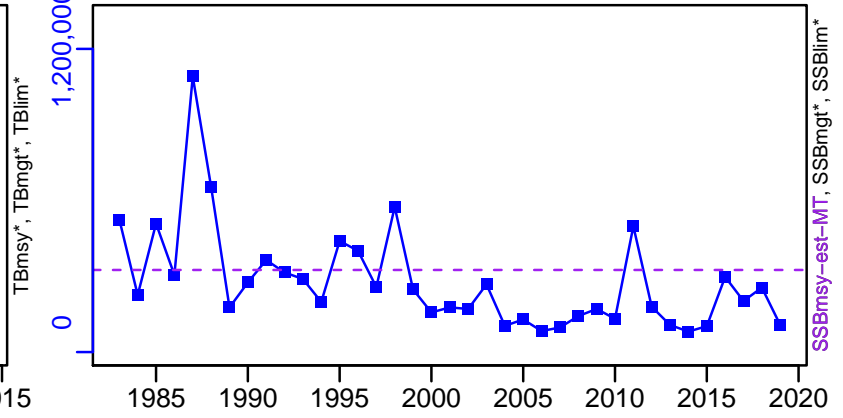
◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 1 [SEELNSSA1]

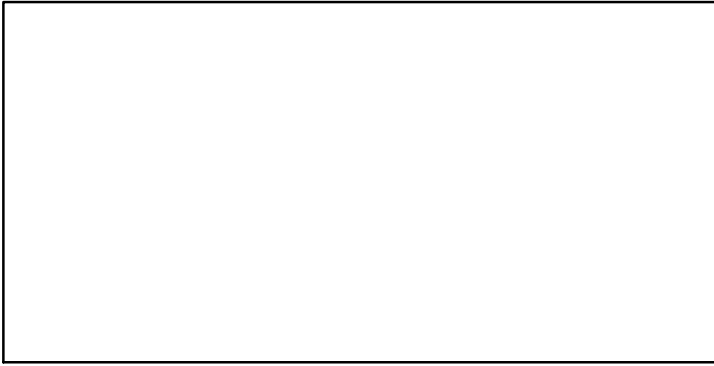
TB-MT (1983–2015–ICESIMP2016)



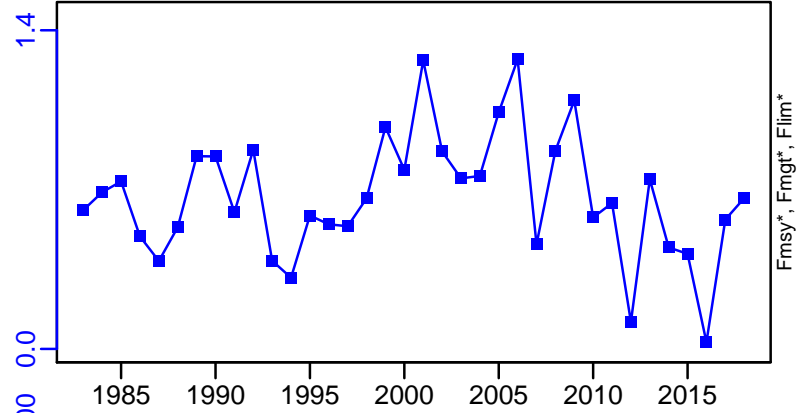
SSB-MT (1983–2019–ICESIMP2021)



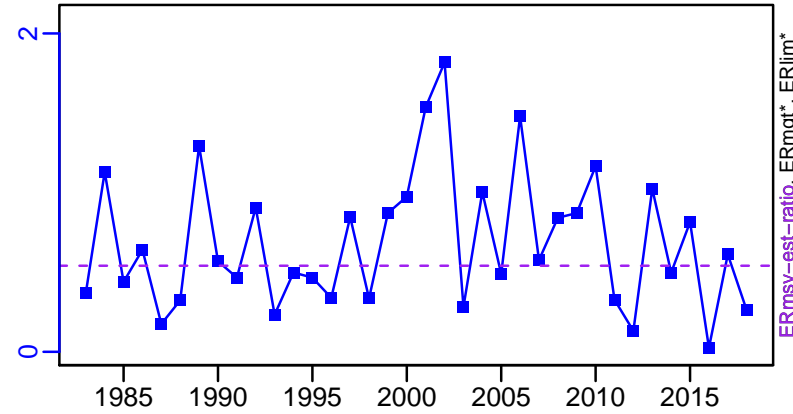
TN *



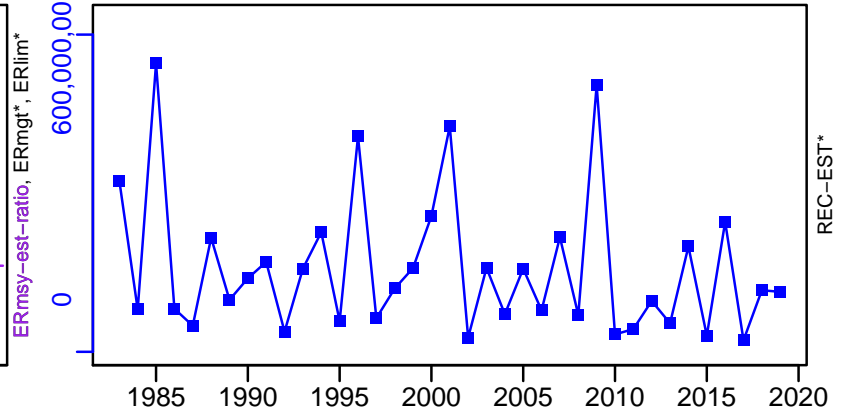
F–1/yr (1983–2019–ICESIMP2021)



ER–calc–ratio (1983–2019–ICESIMP2021)

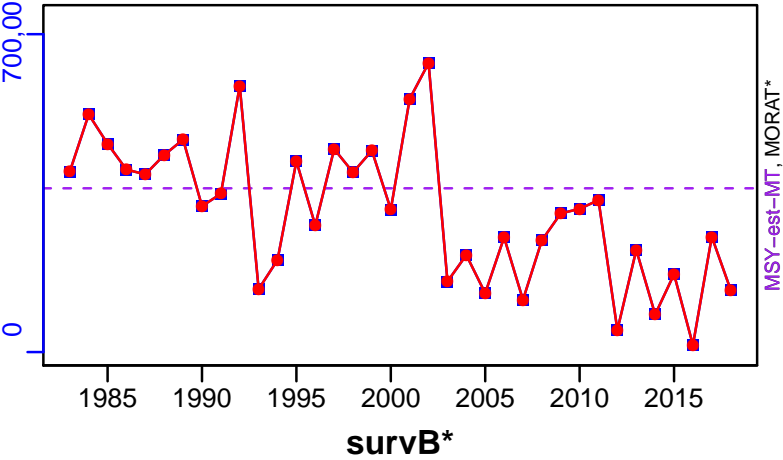


R–E00 (1983–2019–ICESIMP2021)



Sand eel Sandeel Area 1 [SEELNSSA1]

TC-MT, TL-MT, RecC* (1983–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



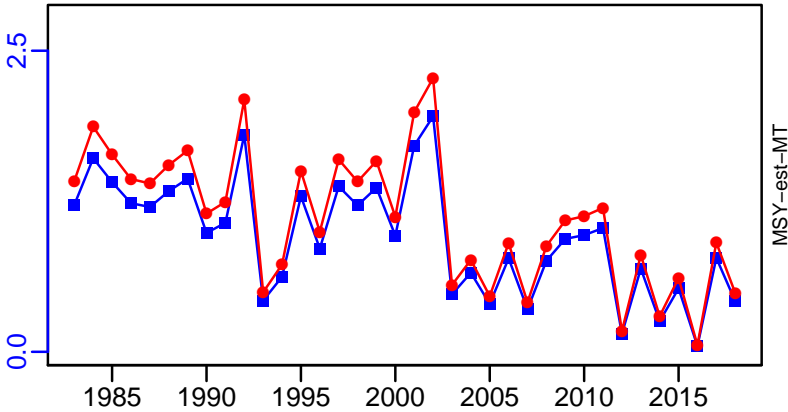
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1983–2019–ICESIMP2021)



Sand eel Sandeel Area 2 [SEELNSSA2]

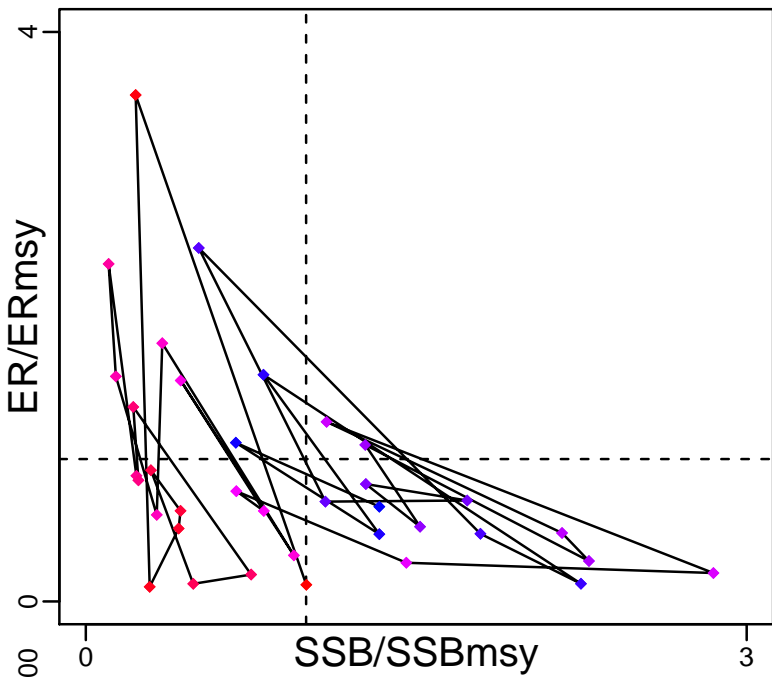
Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA2-1983-2019-ICESIMP2021
Area	Sandeel Area 2
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	218,674
SSBmsy	SSBmsy-est-MT	2019	105,246
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.74
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	84,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	175,581
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2018	56,000
Flim	-	-	-
ERlim	-	-	-

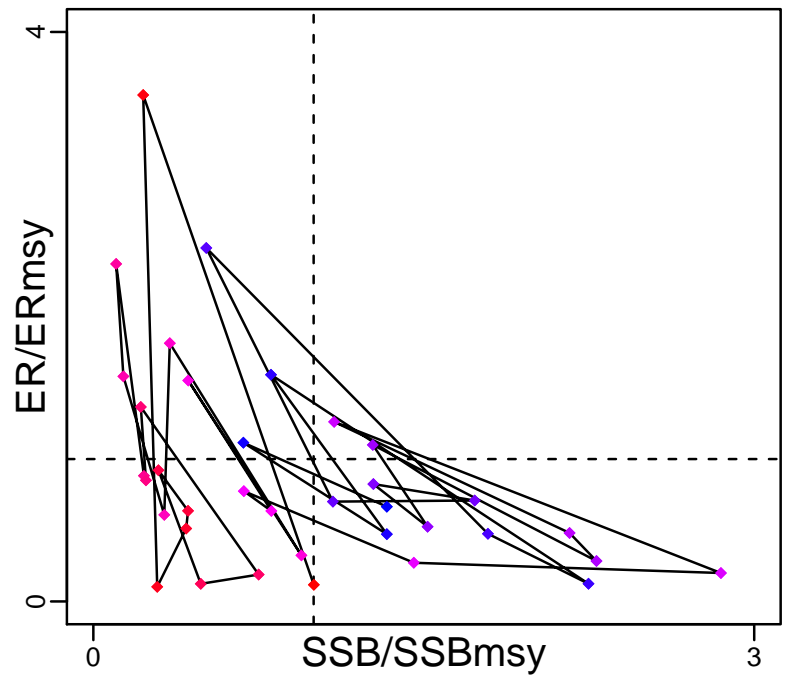
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	174,000	Both	-
SSB	SSB-MT	2019	55,770	-	-
TN	-	-	-	-	-
R	R-E00	2019	20,477,415,000	-	0
F	F-1/yr	2019	0.206	-	1 to 2
ER	ER-calc-ratio	2019	0.087	-	-
TC	TC-MT	2019	20,568		
TL	TL-MT	2019	20,568		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.838		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	0.53		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.117		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.274		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel Sandeel Area 2 [SEELNSSA2]

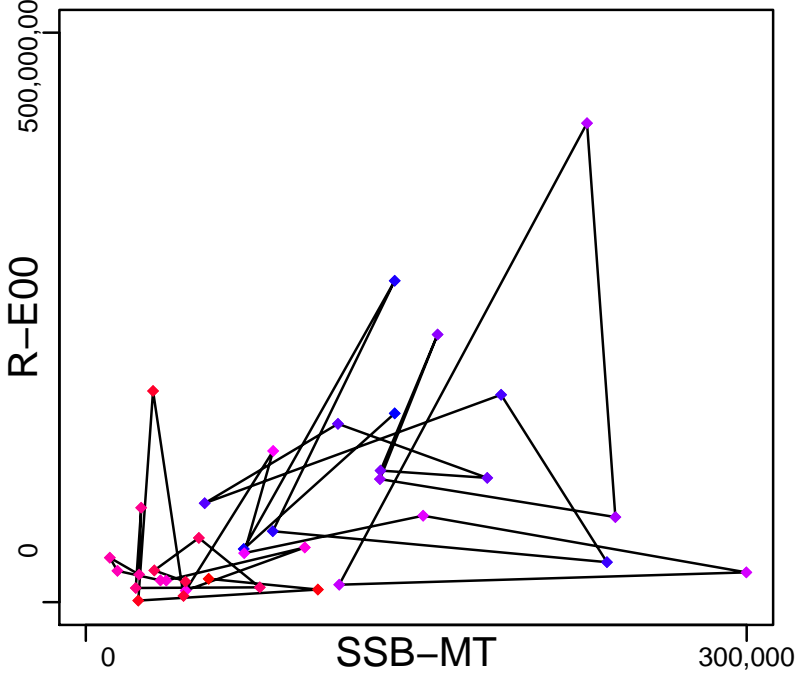
Kobe MSYpref (1983–2019–ICESIMP2021)



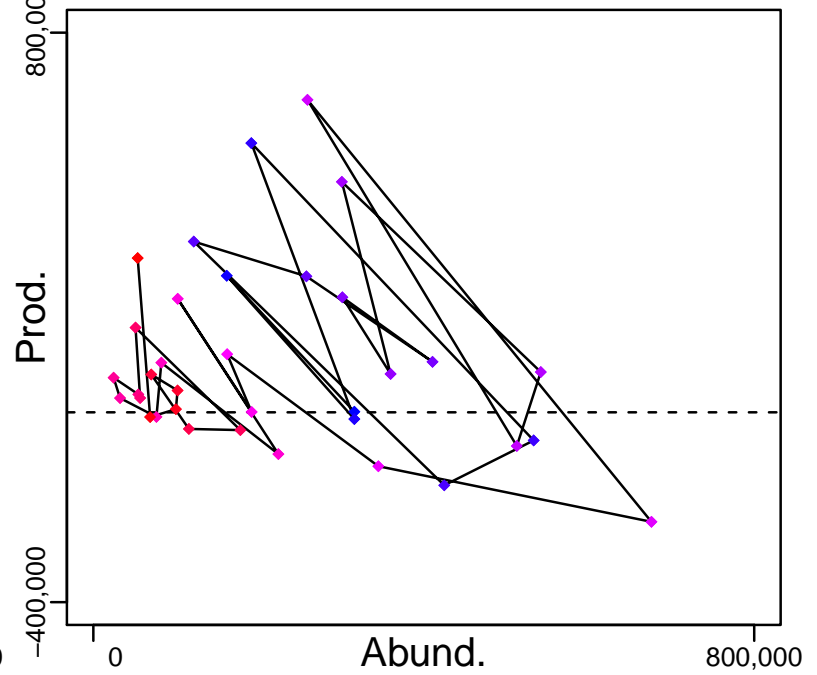
Kobe MGTpref (1983–2019–ICESIMP2021)



Spawner Recruit (1983–2019–ICESIMP2021)



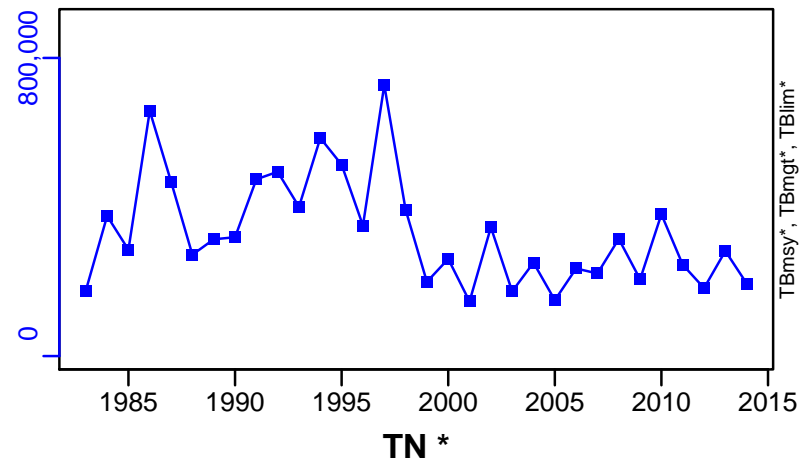
Production (1983–2019–ICESIMP2021)



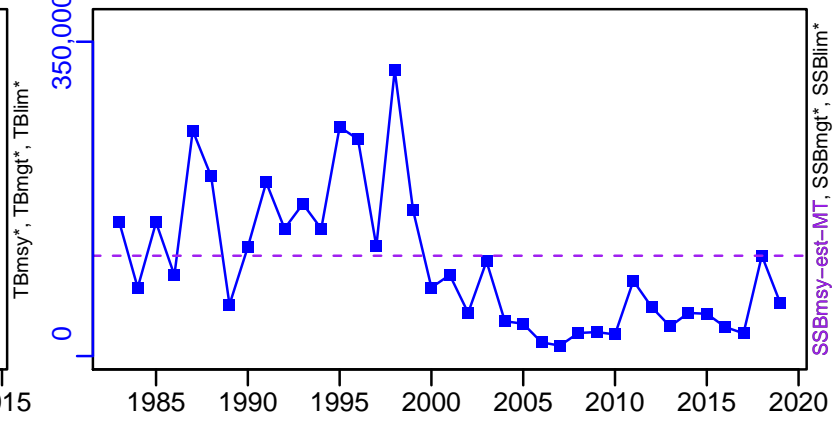
◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 2 [SEELNSSA2]

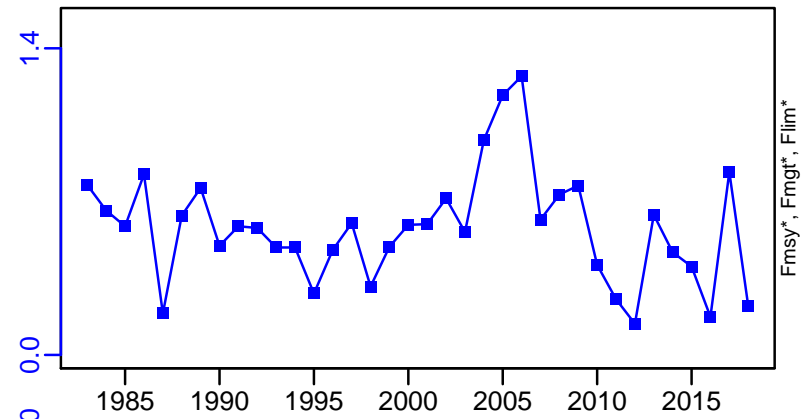
TB-MT (1983–2015–ICESIMP2016)



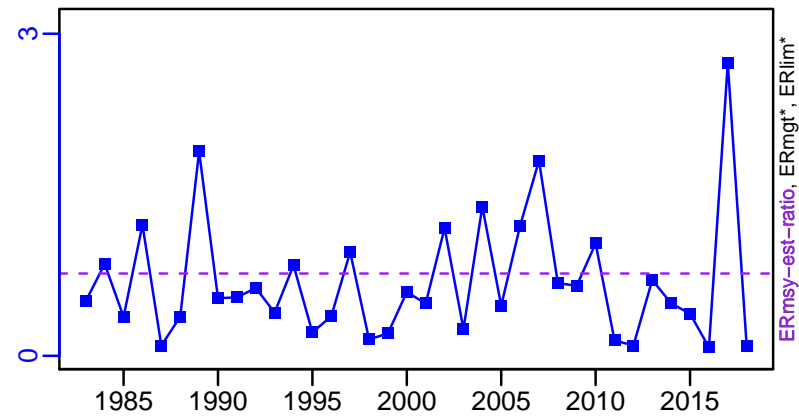
SSB-MT (1983–2019–ICESIMP2021)



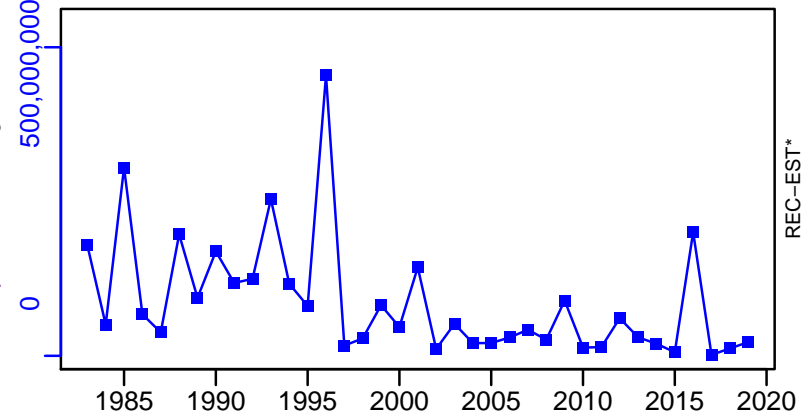
F-1/yr (1983–2019–ICESIMP2021)



ER-calc-ratio (1983–2019–ICESIMP2021)

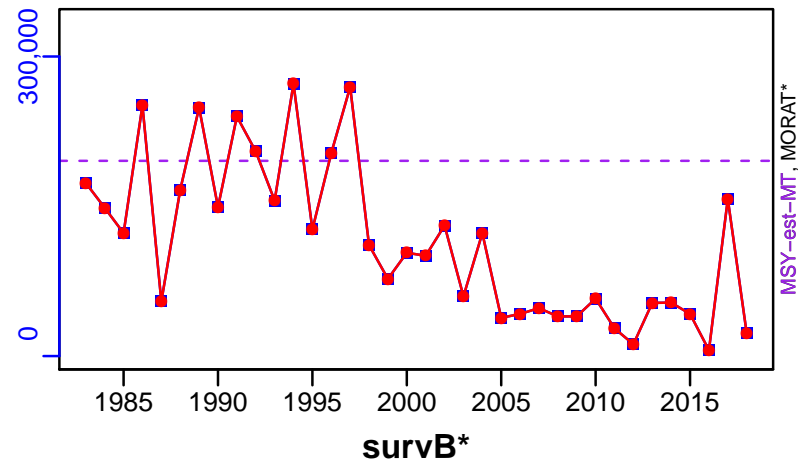


R-E00 (1983–2019–ICESIMP2021)



Sand eel Sandeel Area 2 [SEELNSSA2]

TC-MT, TL-MT, RecC* (1983–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



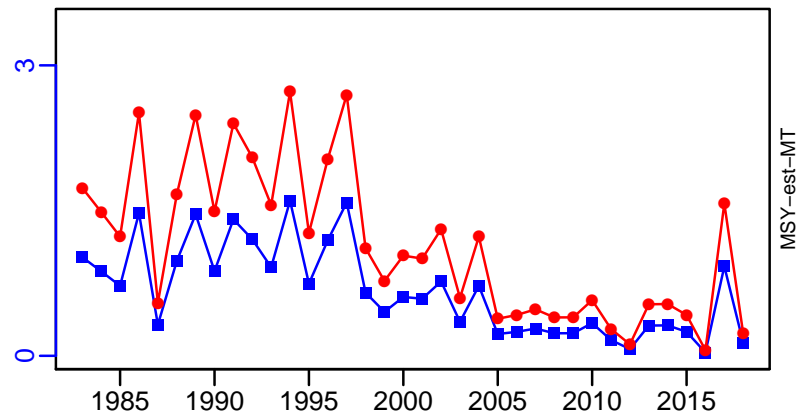
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1983–2019–ICESIMP2021)



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

Sand eel Sandeel Area 3 [SEELNSSA3]

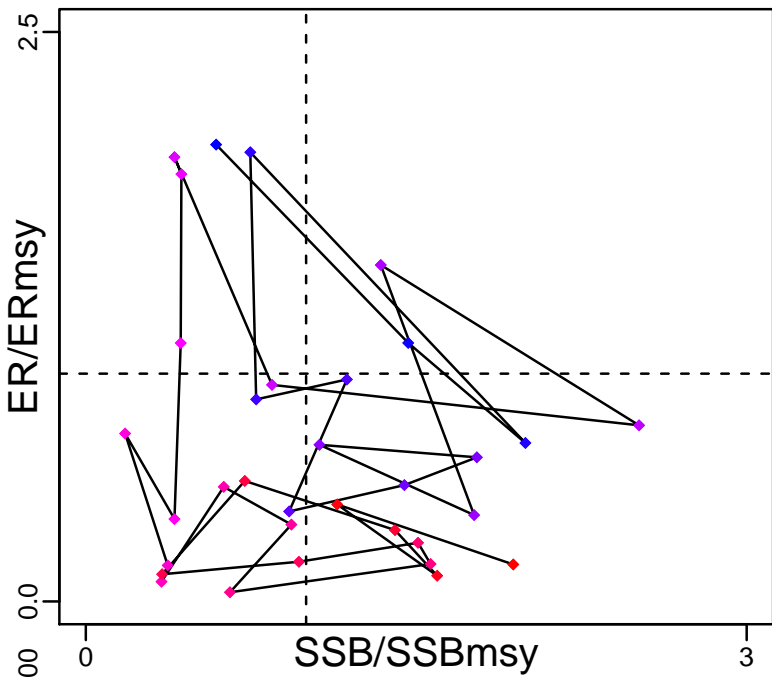
Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA3-1986-2019-ICESIMP2021
Area	Sandeel Area 3
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	619,811
SSBmsy	SSBmsy-est-MT	2019	140,238
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.751
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	129,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	237,984
M	-	-	-
TBlim	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2018	80,000
Flim	-	-	-
ERlim	-	-	-

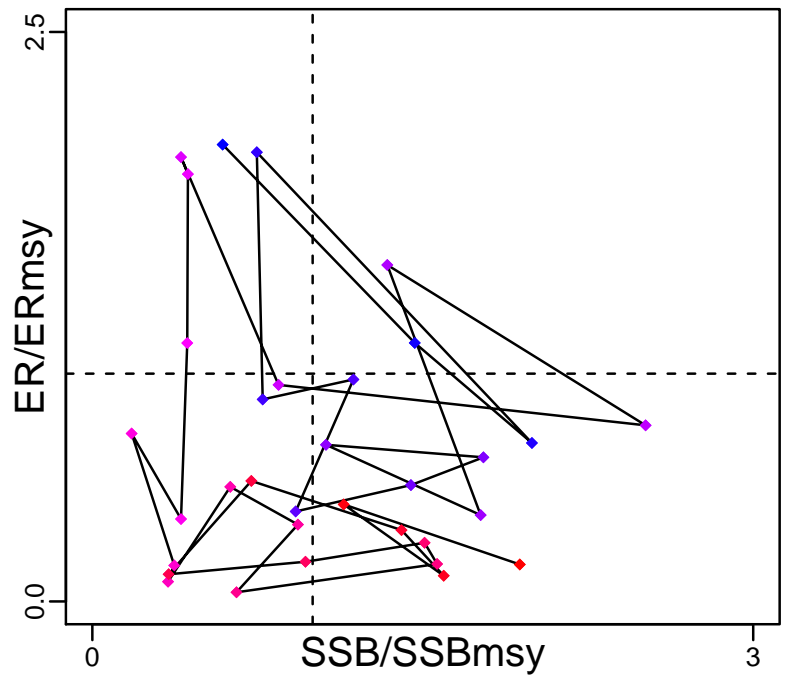
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	535,000	Both	-
SSB	SSB-MT	2019	182,590	-	-
TN	-	-	-	-	-
R	R-E00	2019	98,516,876,000	-	0
F	F-1/yr	2019	0.342	-	1 to 2
ER	ER-calc-ratio	2019	0.122	-	-
TC	TC-MT	2019	74,933		
TL	TL-MT	2019	74,933		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.71		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	1.302		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.162		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.636		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel Sandeel Area 3 [SEELNSSA3]

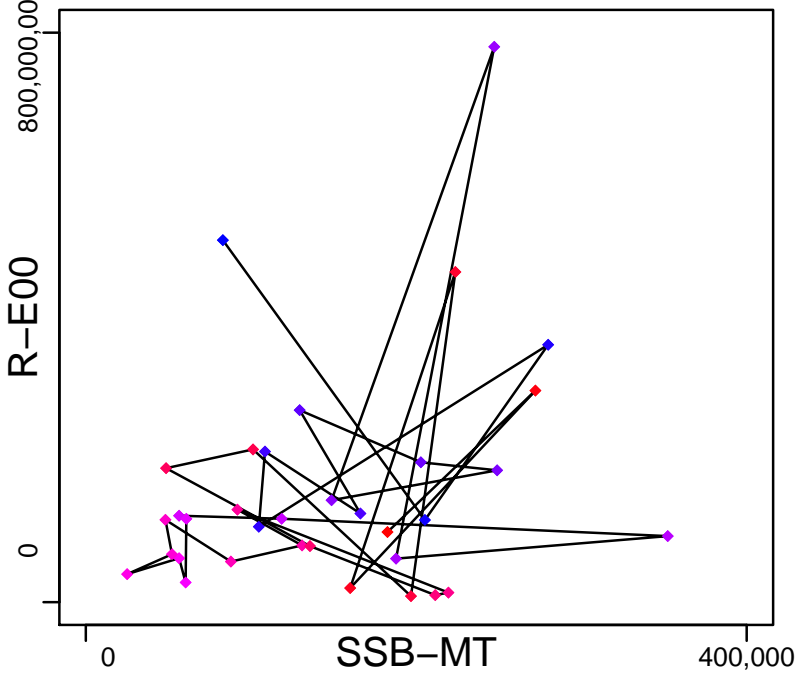
Kobe MSYpref (1986–2019–ICESIMP2021)



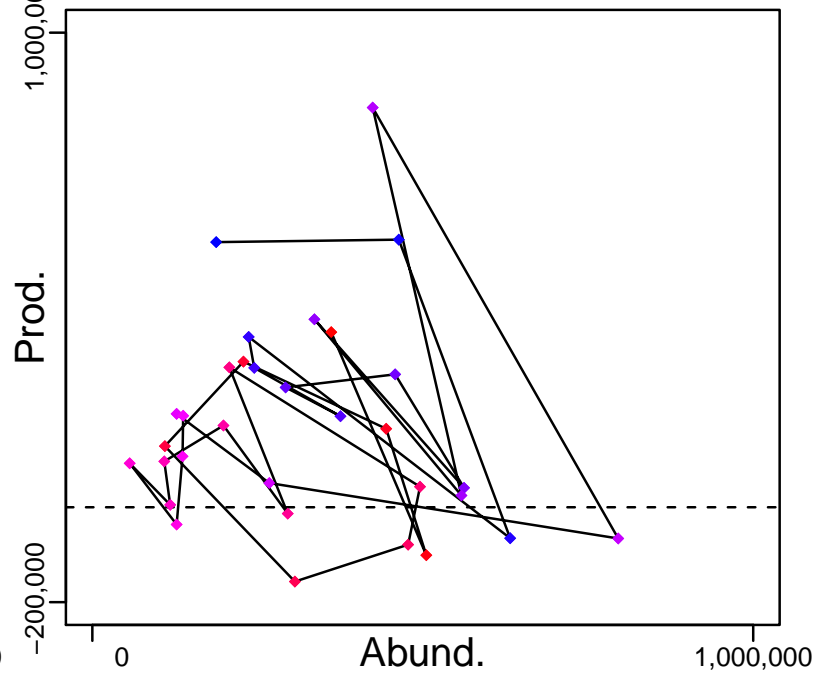
Kobe MGTpref (1986–2019–ICESIMP2021)



Spawner Recruit (1986–2019–ICESIMP2021)



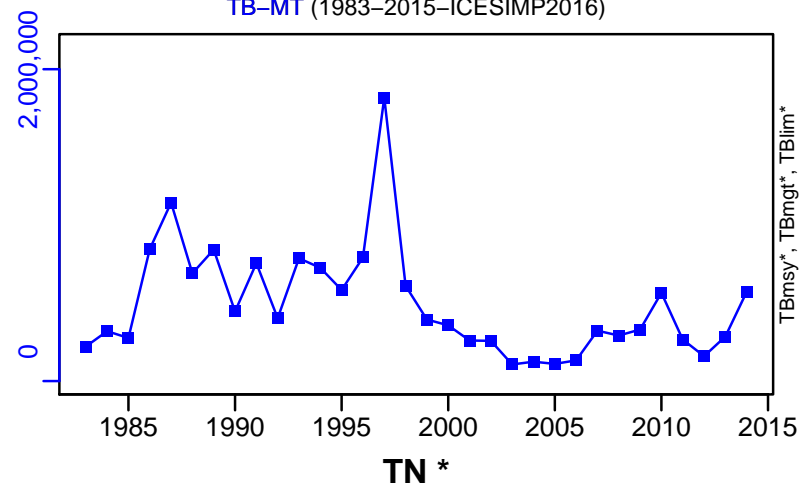
Production (1986–2019–ICESIMP2021)



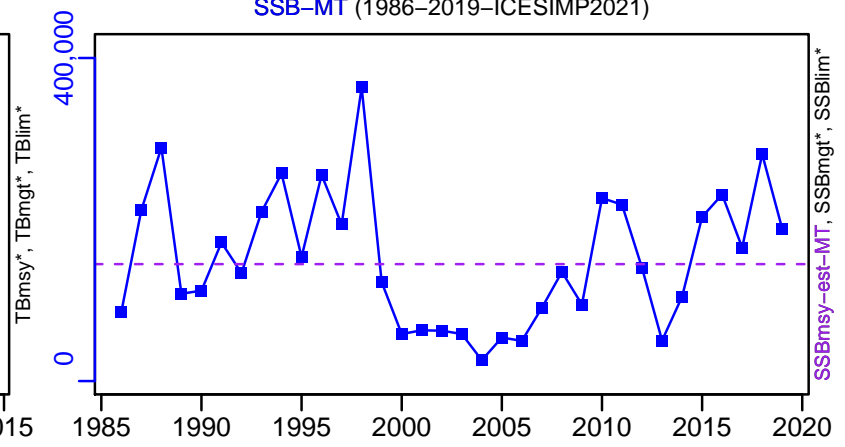
◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 3 [SEELNSSA3]

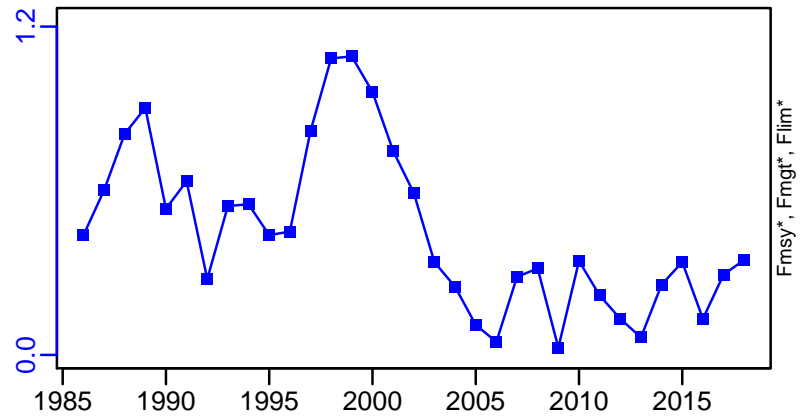
TB-MT (1983–2015–ICESIMP2016)



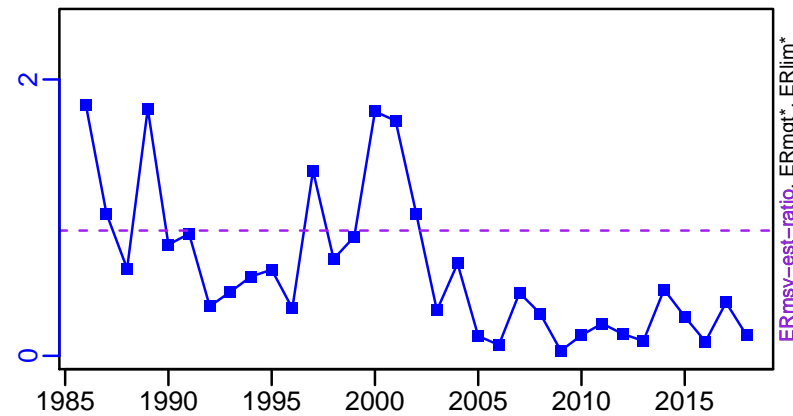
SSB-MT (1986–2019–ICESIMP2021)



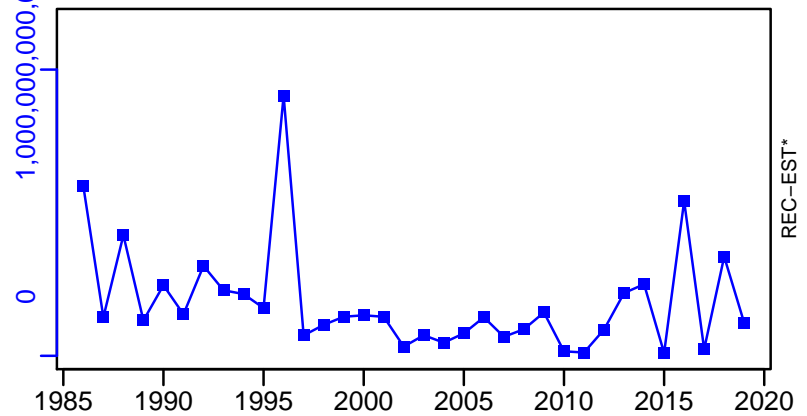
F-1/yr (1986–2019–ICESIMP2021)



ER-calc-ratio (1986–2019–ICESIMP2021)

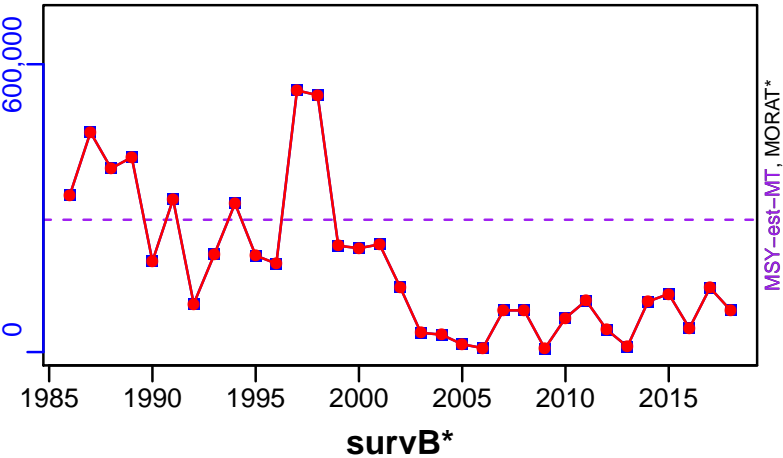


R-E00 (1986–2019–ICESIMP2021)



Sand eel Sandeel Area 3 [SEELNSSA3]

TC-MT, TL-MT, RecC* (1986-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



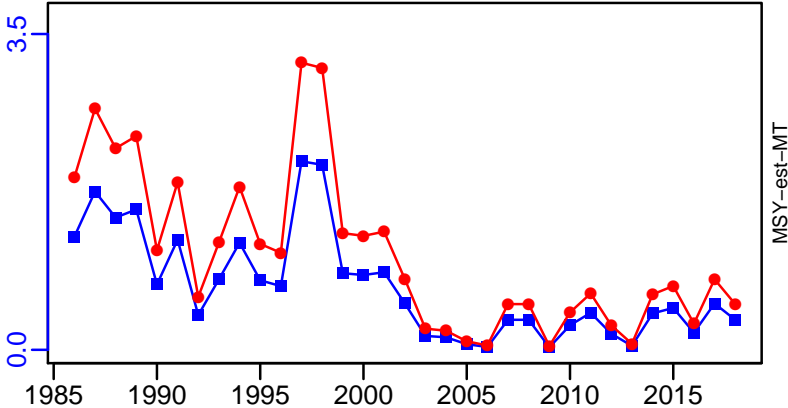
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1986-2019-ICESIMP2021)



Sand eel Sandeel Area 4 [SEELNSSA4]

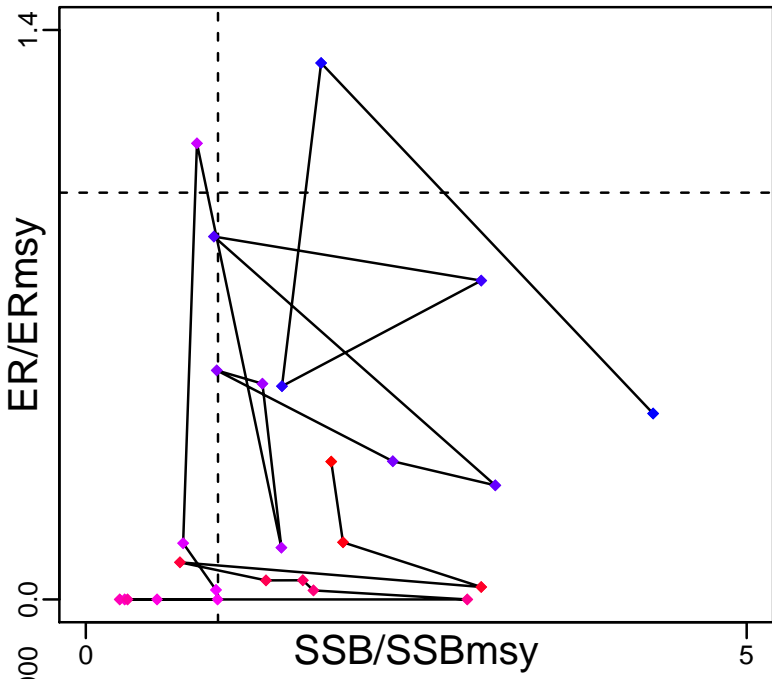
Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA4-1993-2019-ICESIMP2021
Area	Sandeel Area 4
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2019	83,217
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.36
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	102,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	67,591
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	48,000
Flim	-	-	-
ERlim	-	-	-

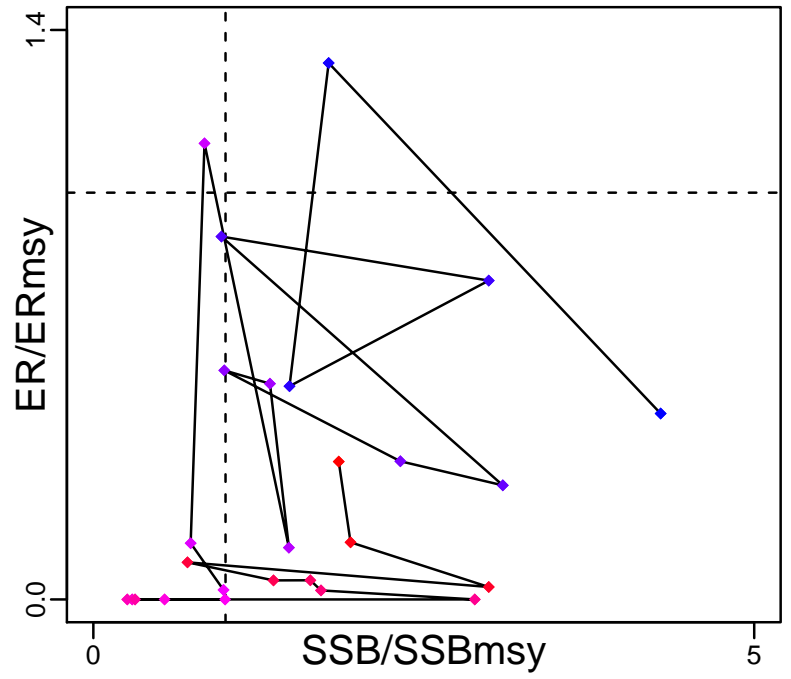
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	169,058	-	-
TN	-	-	-	-	-
R	R-E00	2019	80,801,275,000	-	0
F	F-1/yr	2019	0.152	-	1 to 2
ER	ER-calc-ratio	2019	0.122	-	-
TC	TC-MT	2019	42,526		
TL	TL-MT	2019	42,526		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	2.032		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.339		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.912		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel Sandeel Area 4 [SEELNSSA4]

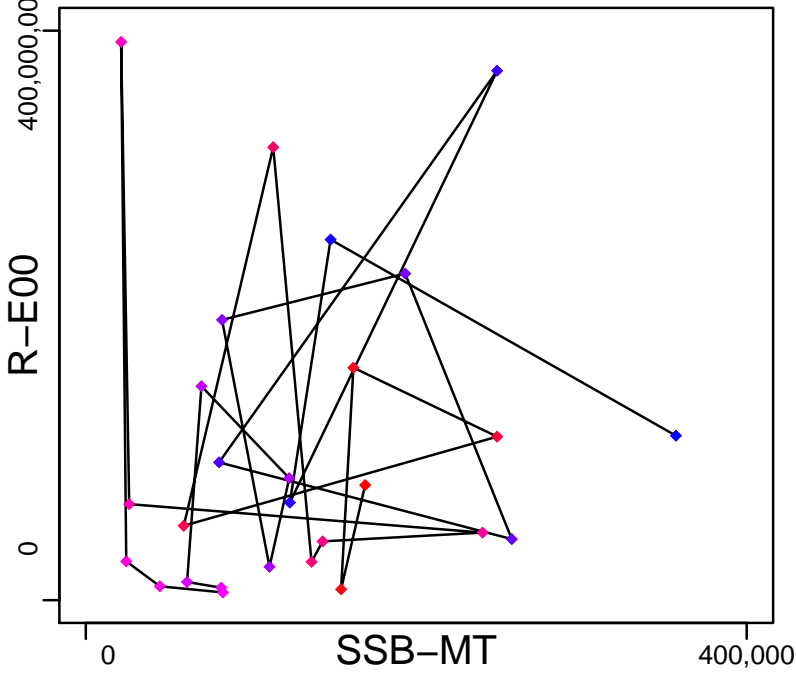
Kobe MSYpref (1993–2019–ICESIMP2021)



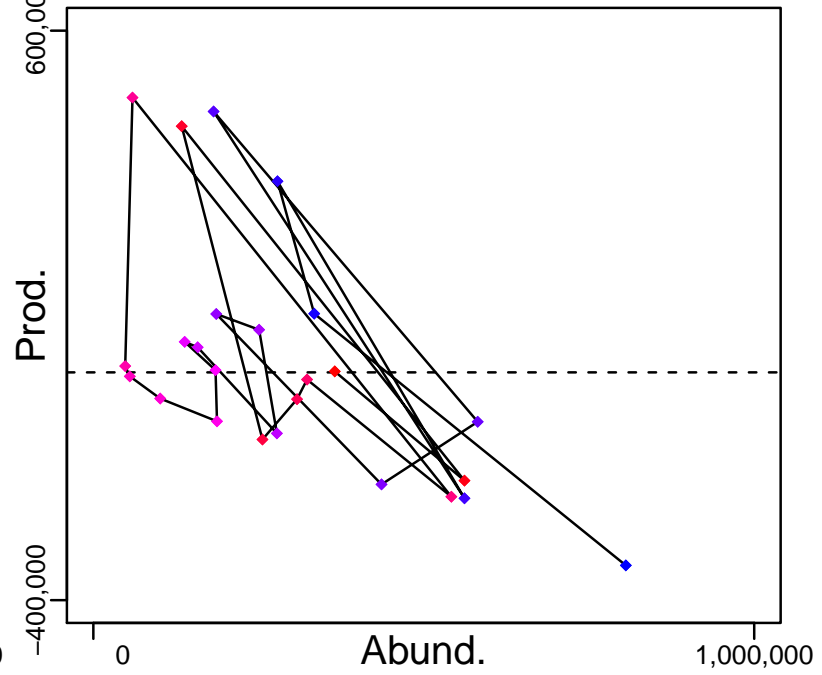
Kobe MGTpref (1993–2019–ICESIMP2021)



Spawner Recruit (1993–2019–ICESIMP2021)



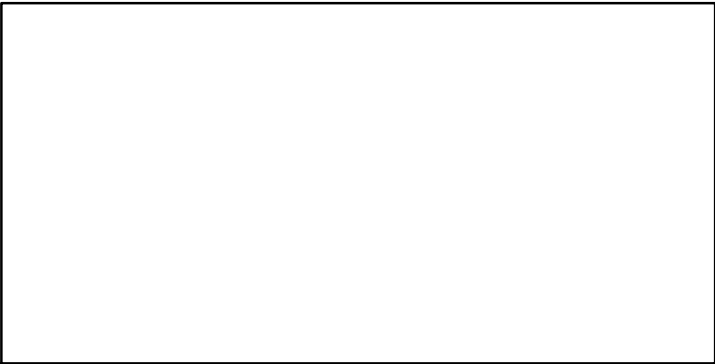
Production (1993–2019–ICESIMP2021)



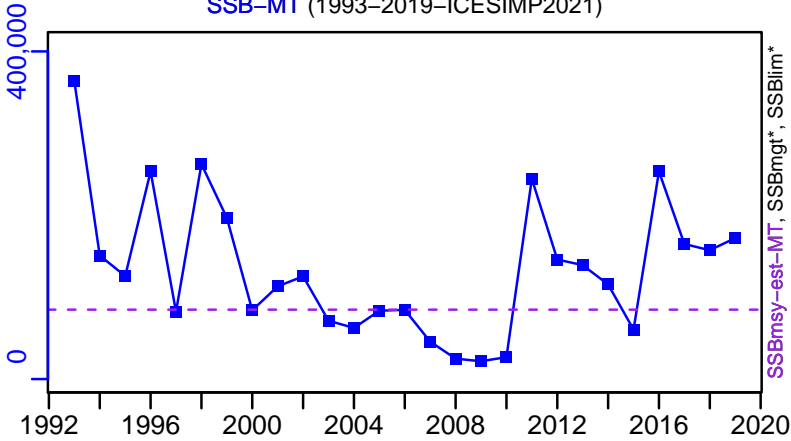
◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 4 [SEELNSSA4]

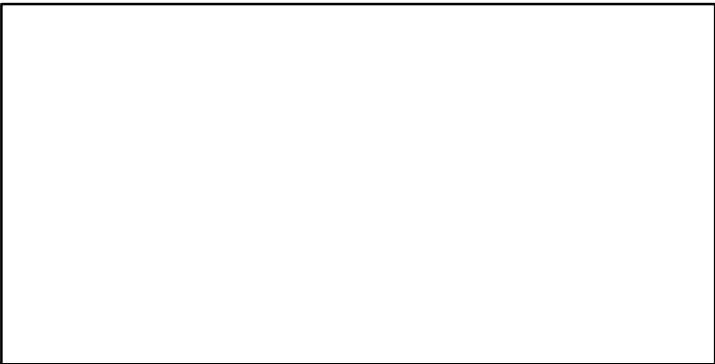
TB*



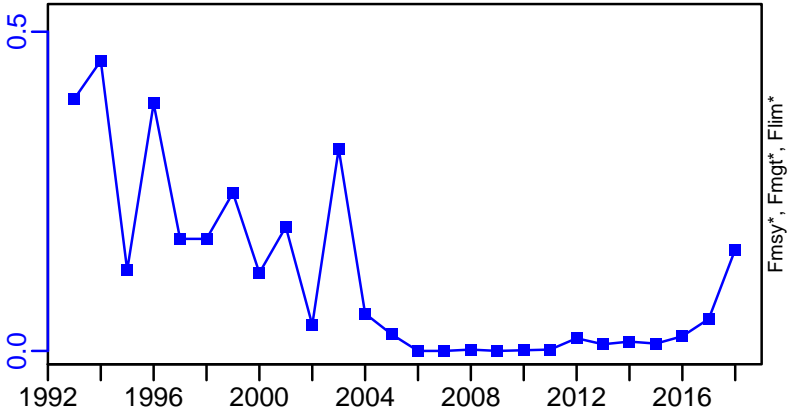
SSB-MT (1993–2019–ICESIMP2021)



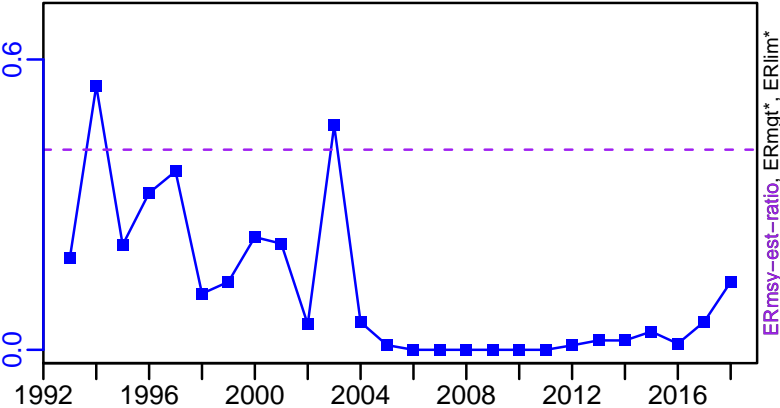
TN *



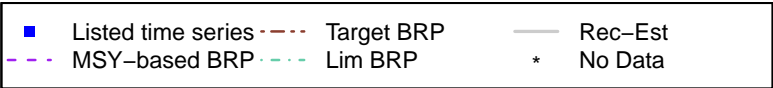
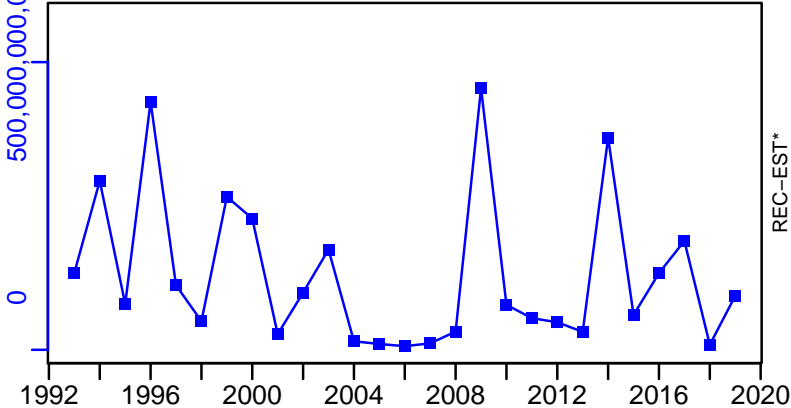
F-1/yr (1993–2019–ICESIMP2021)



ER-calc-ratio (1993–2019–ICESIMP2021)

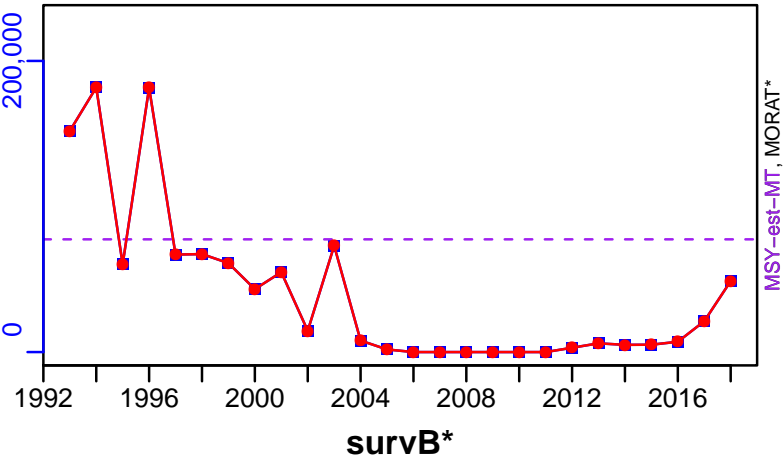


R-E00 (1993–2019–ICESIMP2021)



Sand eel Sandeel Area 4 [SEELNSSA4]

TC-MT, TL-MT, RecC* (1993–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



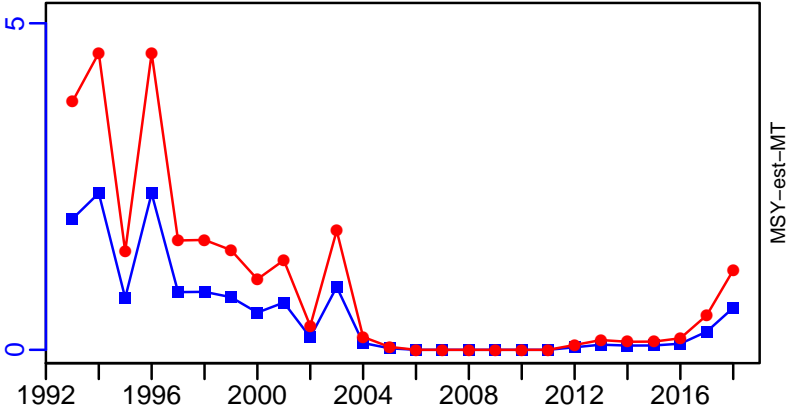
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1993–2019–ICESIMP2021)



Sand eel Sandeel Area 5 [SEELNSSA5]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA5-1982-2018-ICESIMP2021
Area	Sandeel Area 5
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2016, 2018, 2015, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	0		
TL	TL-MT	2015	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

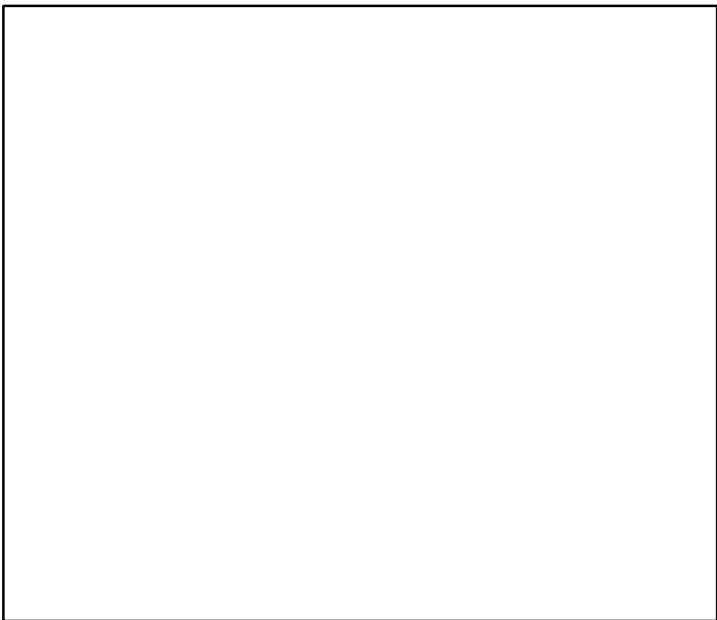
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 5 [SEELNSSA5]

TB*



SSB*



TN *



F*



ER*

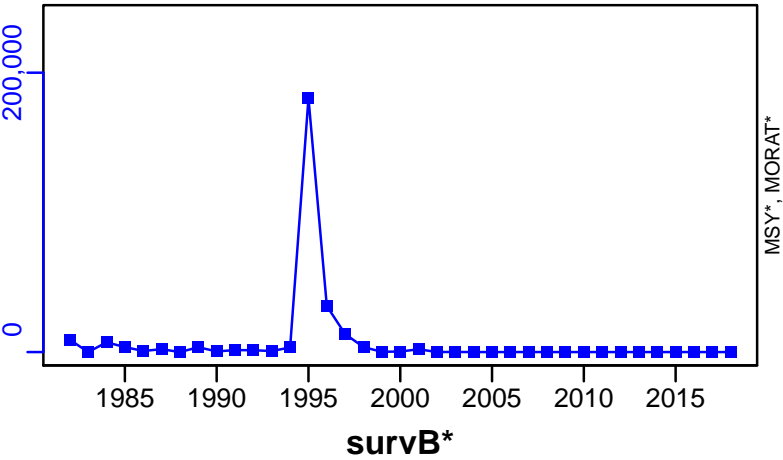


Recruits*



Sand eel Sandeel Area 5 [SEELNSSA5]

TC-MT, TL*, RecC* (1982-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sand eel Sandeel Area 6 [SEELNSSA6]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA6-1983-2018-ICESIMP2021
Area	Sandeel Area 6
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 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	2018	0		
TL	TL-MT	2016	123		
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

Sand eel Sandeel Area 6 [SEELNSSA6]

TB*



SSB*



TN *



F*



ER*



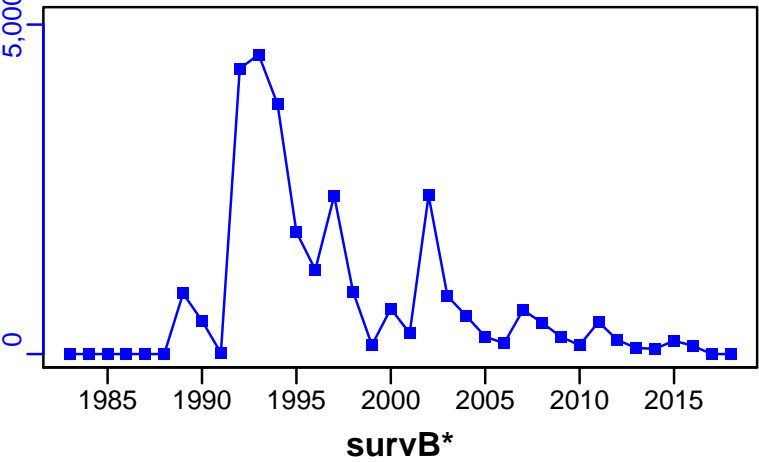
Recruits*



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

Sand eel Sandeel Area 6 [SEELNSSA6]

TC-MT, TL*, RecC* (1983-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sand eel Sandeel Area 7 [SEELNSSA7]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA7-1983-2018-ICESIMP2021
Area	Sandeel Area 7
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 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	2018	0		
TL	TL-MT	2015	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

Sand eel Sandeel Area 7 [SEELNSSA7]

TB*



SSB*



TN *



F*



ER*

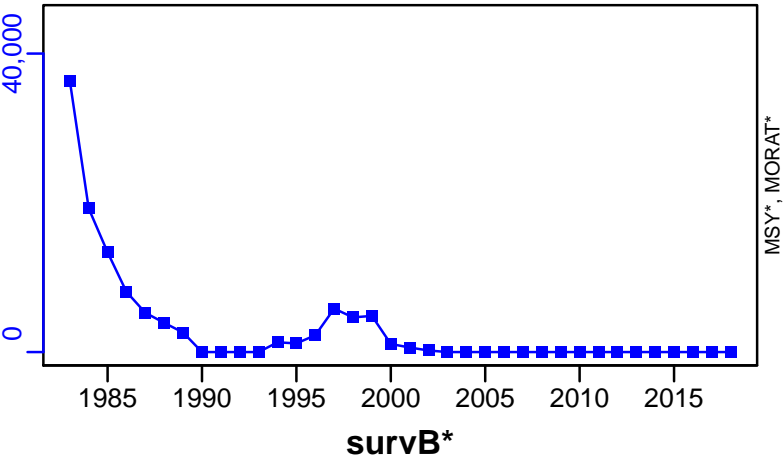


Recruits*



Sand eel Sandeel Area 7 [SEELNSSA7]

TC-MT, TL*, RecC* (1983-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



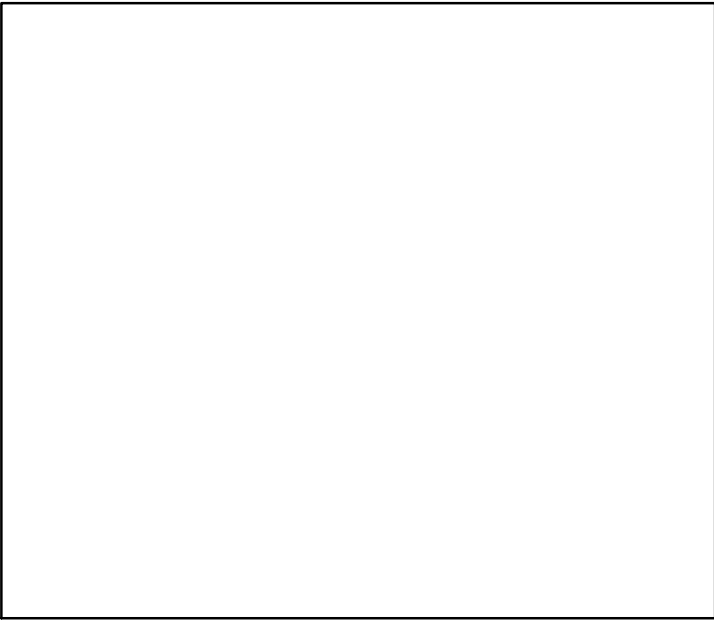
Sand eel West of Scotland [SEELVIa]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELVIa-1970-2017-ICESIMP2021
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 2017

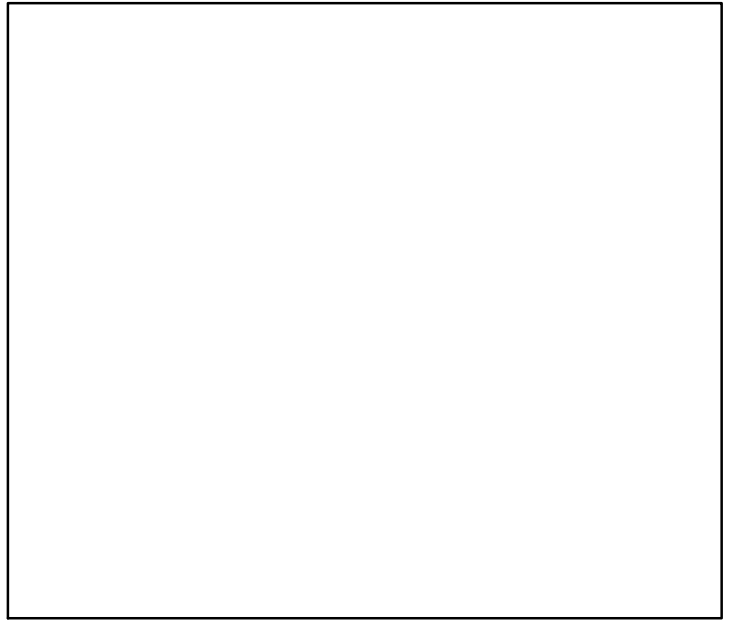
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

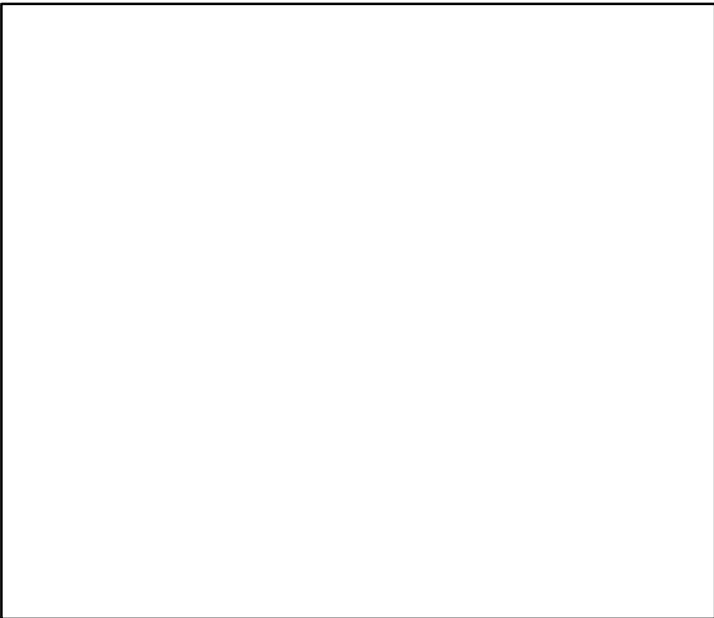
Kobe MSY*



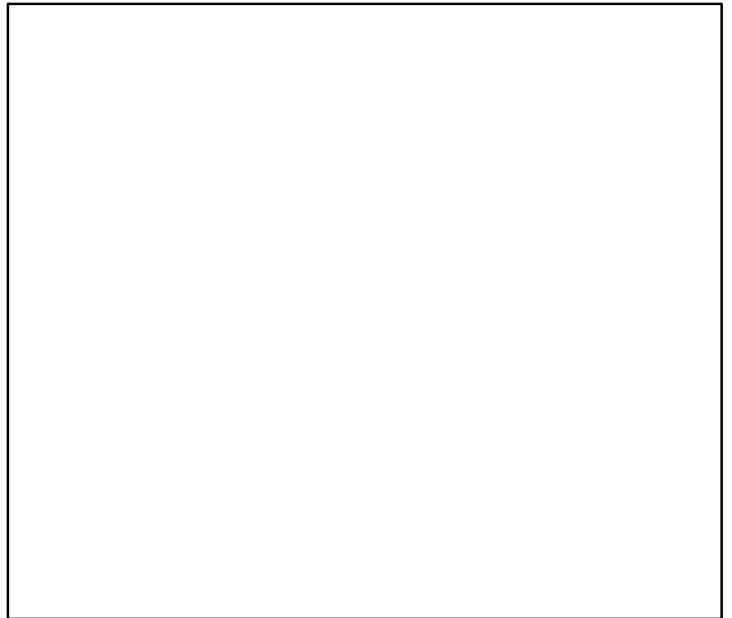
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sand eel West of Scotland [SEELVla]

TB*



SSB*



TN *



F*



ER*

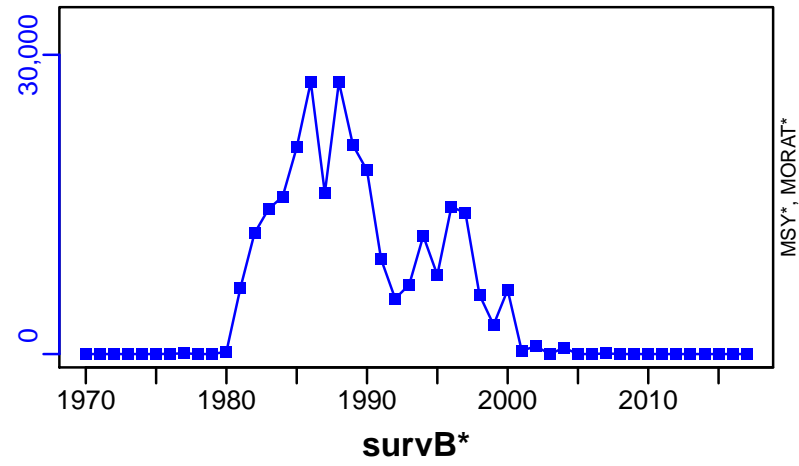


Recruits*



Sand eel West of Scotland [SEELVla]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Smalleyed ray ICES 7de [SERAYVIIde]

Metadata	
Scientific Name	Raja microocellata
Current Assess ID	WGEF-SERAYVIIde-2009-2015-ICESIMP2018
Area	ICES 7de
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	56		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

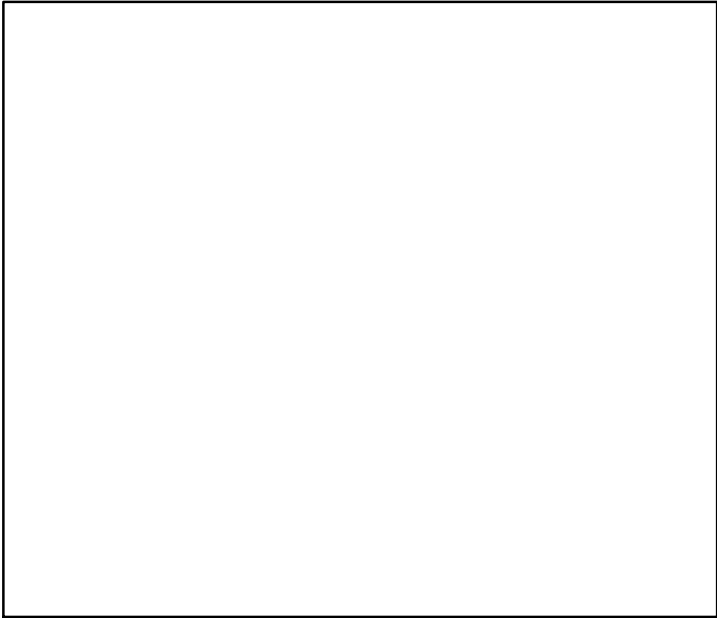
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



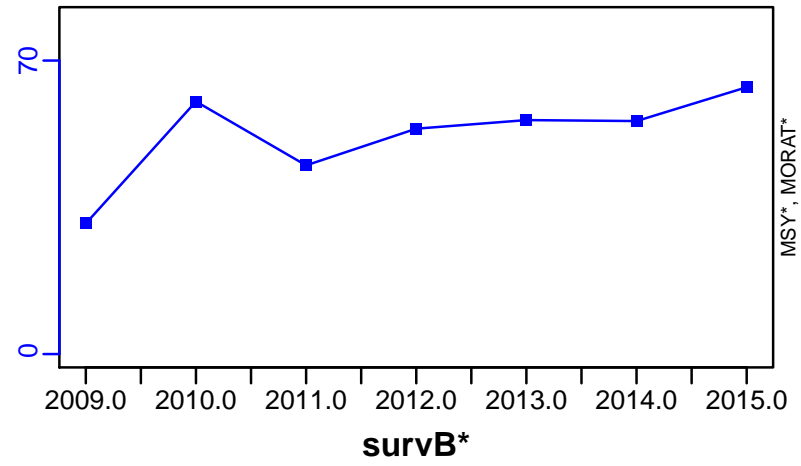
Recruits*



Smalleyed ray ICES 7de [SERAYVIIde]

TL-MT, TC*, RecC* (2009–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*

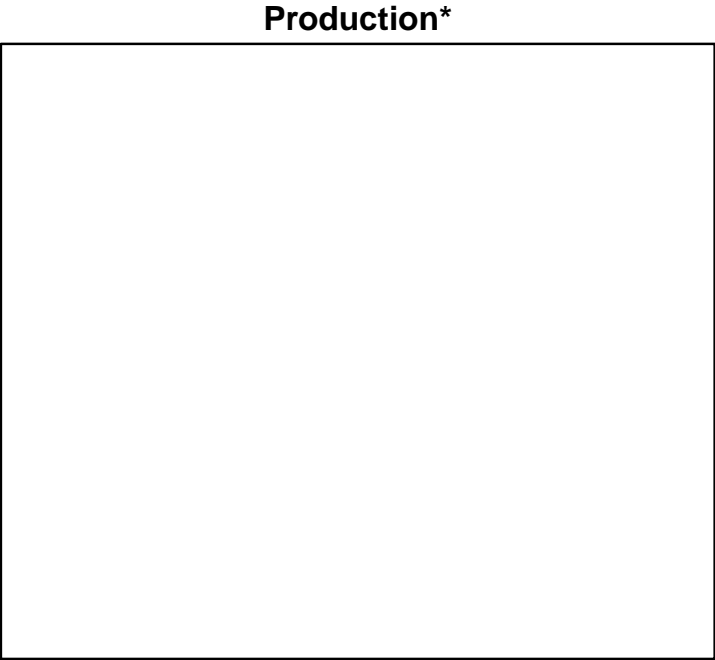
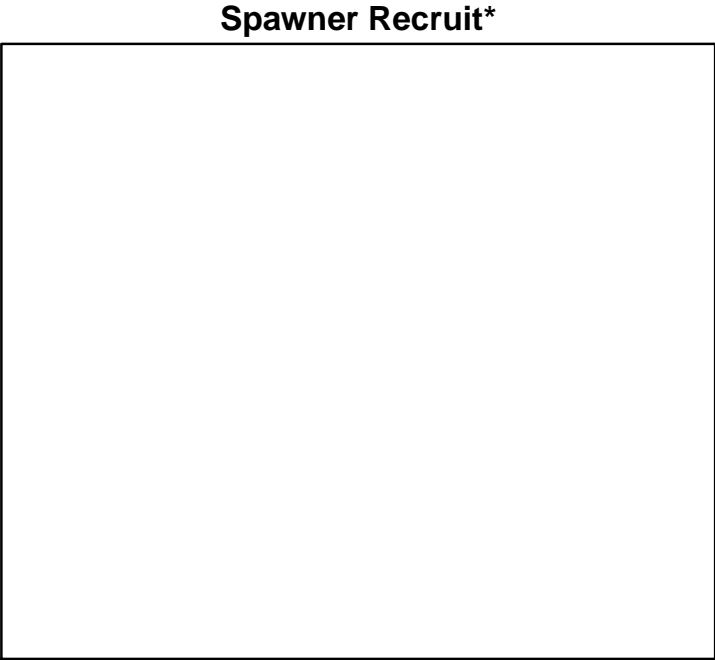
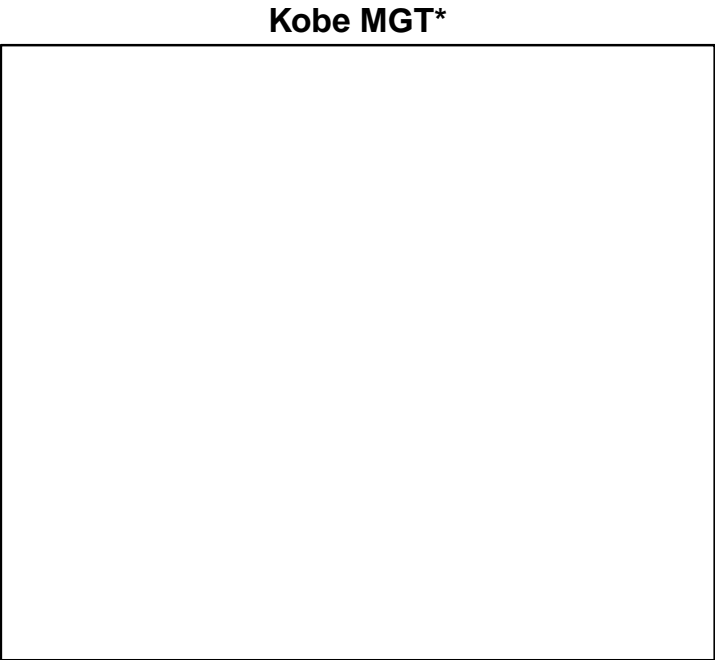
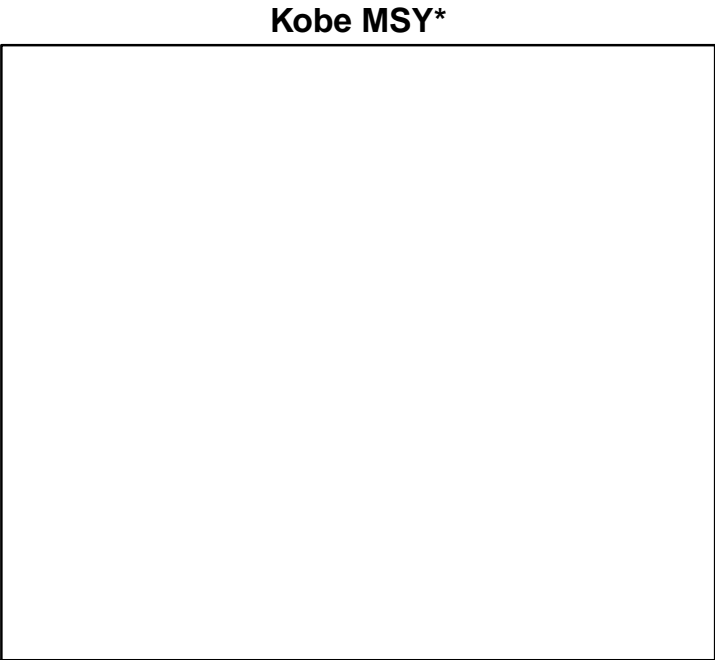


Smalleyed ray Celtic Sea [SERAYVII-f-g]

Metadata	
Scientific Name	Raja microocellata
Current Assess ID	WGEF-SERAYVII-f-g-1993-2015-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	2.03	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	208		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



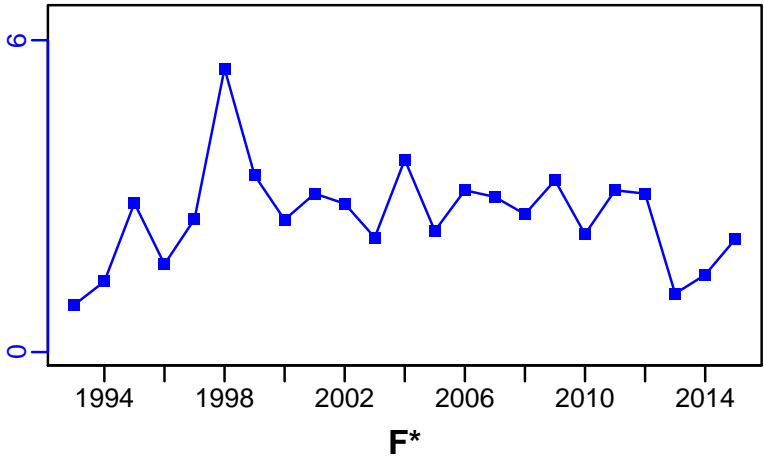
◆ Start Year ◆ End Year * No Data

Smalleyed ray Celtic Sea [SERAYVIIIf-g]

TB*



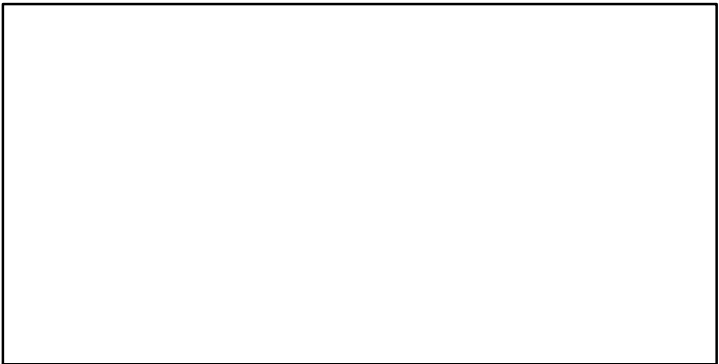
SSB-index (1993–2015–ICESIMP2018)



TN *



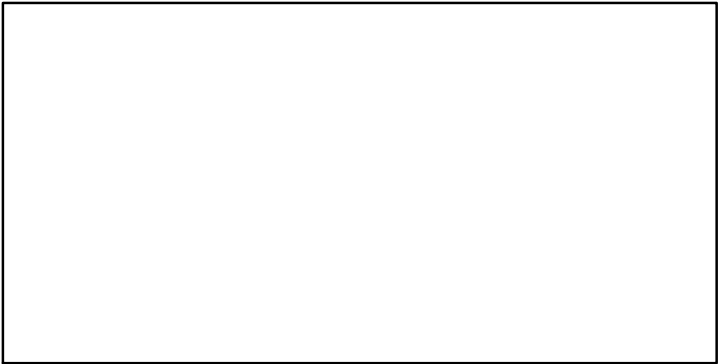
F*



ER*



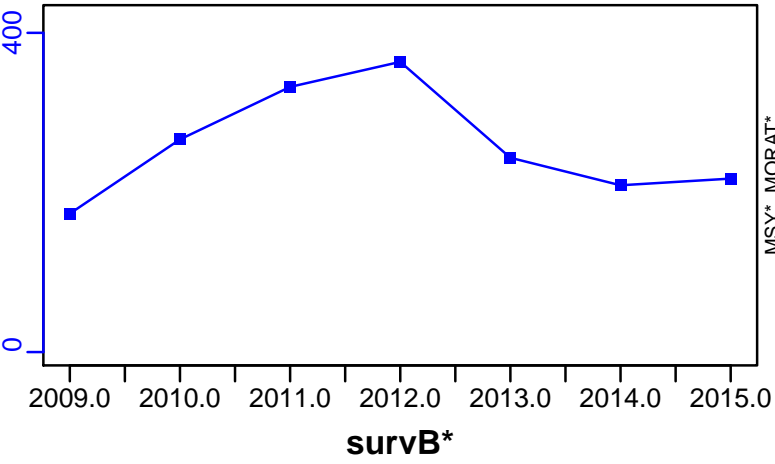
Recruits*



Smalleyed ray Celtic Sea [SERAYVIIIf-g]

TL-MT, TC*, RecC* (1993-2015-ICESIMP2018)

TAC*, Cpair*, Cadv*



Shagreen ray ICES 6-7 [SGRAYVI-VII]

Metadata	
Scientific Name	Leucoraja fullonica
Current Assess ID	WGEF-SGRAYVI-VII-2009-2015-ICESIMP2018
Area	ICES 6-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	196		
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*

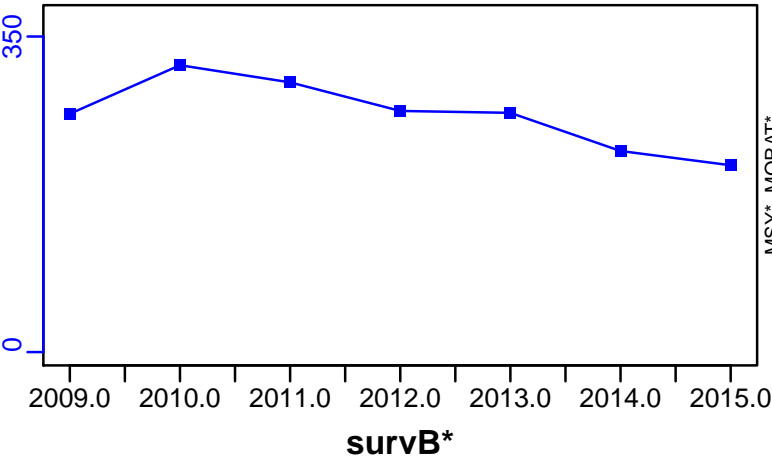


Recruits*



Shagreen ray ICES 6–7 [SGRAYVI–VII]

TL–MT, TC*, RecC* (2009–2015–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Smooth hound Northeast Atlantic [SHSPNEATL]

Metadata	
Scientific Name	Mustelus spp
Current Assess ID	WGEF-SHSPNEATL-1997-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	2.33	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	3684		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



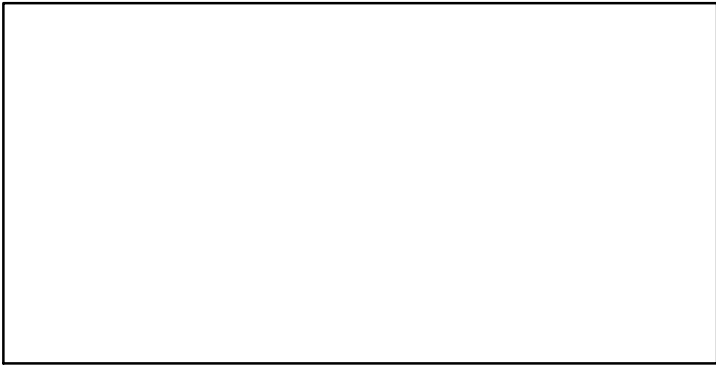
Production*



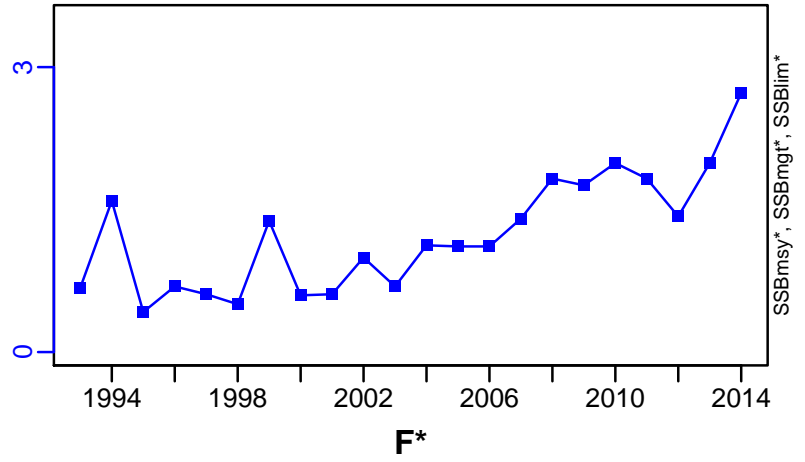
◆ Start Year ◆ End Year * No Data

Smooth hound Northeast Atlantic [SHSPNEATL]

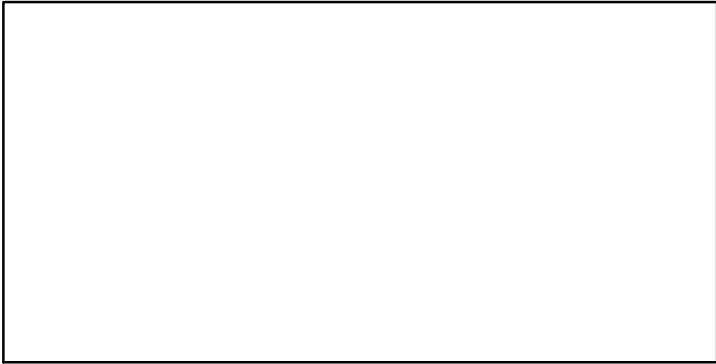
TB*



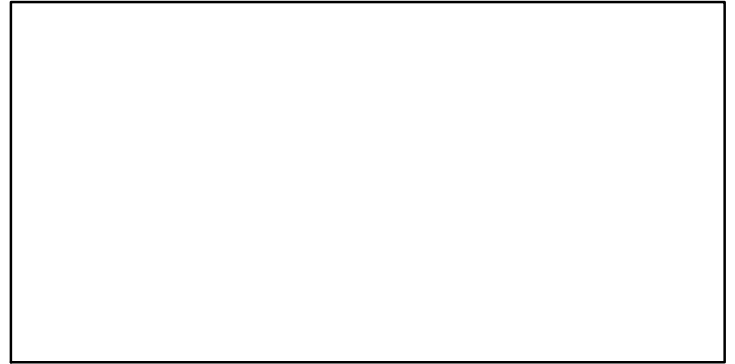
SSB-index (1993–2014–ICESIMP2018)



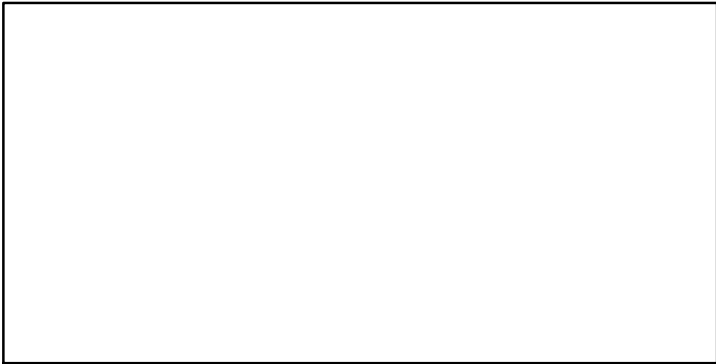
TN *



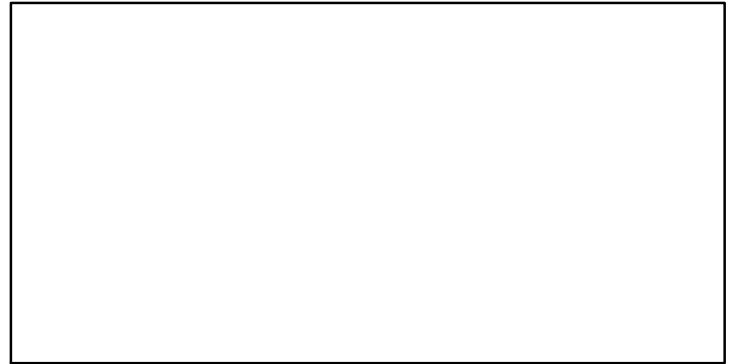
F*



ER*

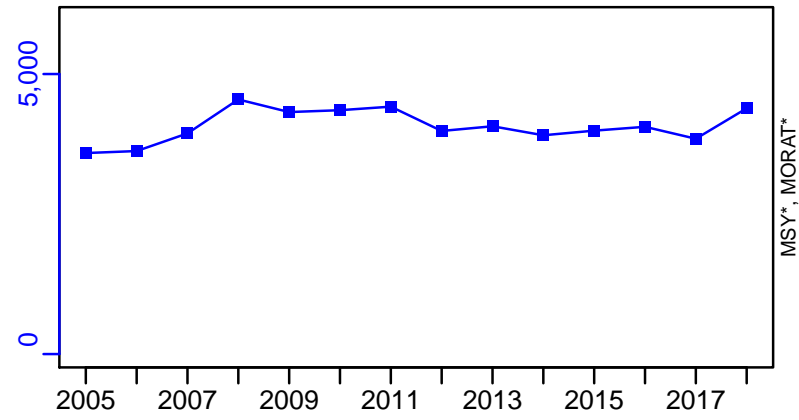


Recruits*



Smooth hound Northeast Atlantic [SHSPNEATL]

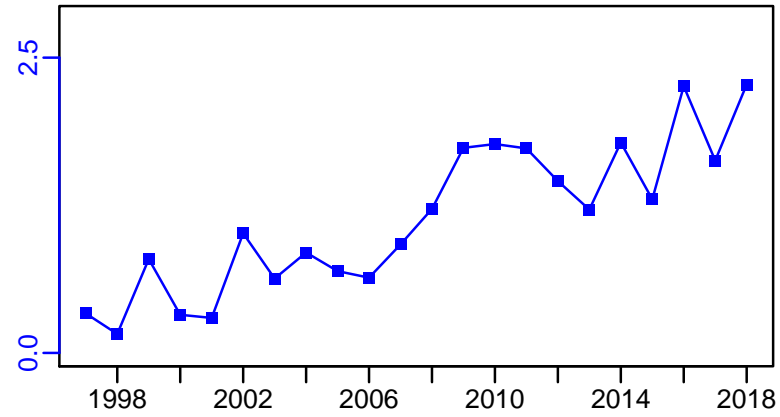
TL-MT, TC*, RecC* (1997–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



survB-index (1997–2018–ICESIMP2021)



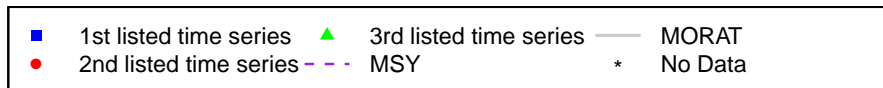
CPUE*



EFFORT*



CdivMSY*



Common sole Celtic Sea [SOLECS]

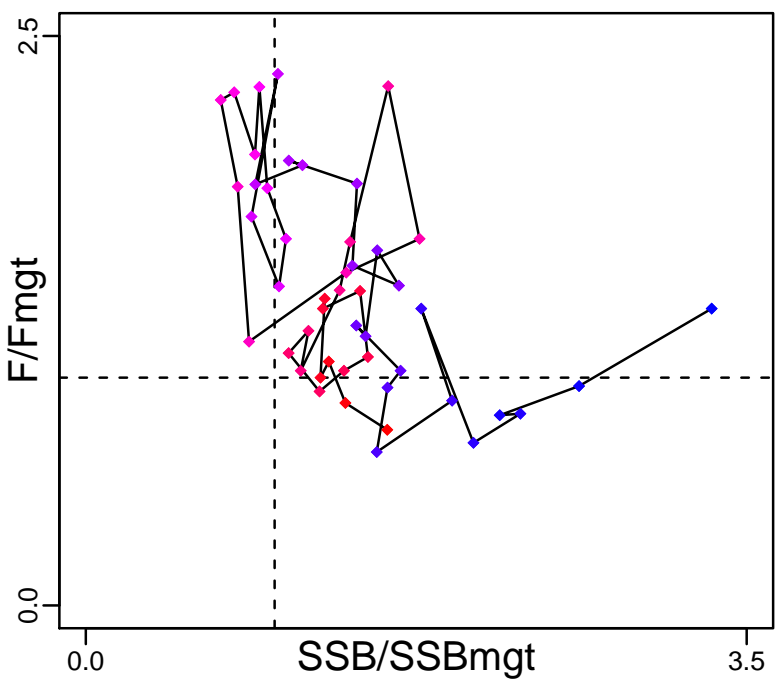
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLECS-1970-2019-ICESIMP2021
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	4199
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.274
ERmsy	ERmsy-est-ratio	2019	0.593
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	2228
Fmgt	Fmgt-1/yr	2019	0.297
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	1133
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1700
Flim	Flim-1/yr	2018	0.488
ERlim	-	-	-

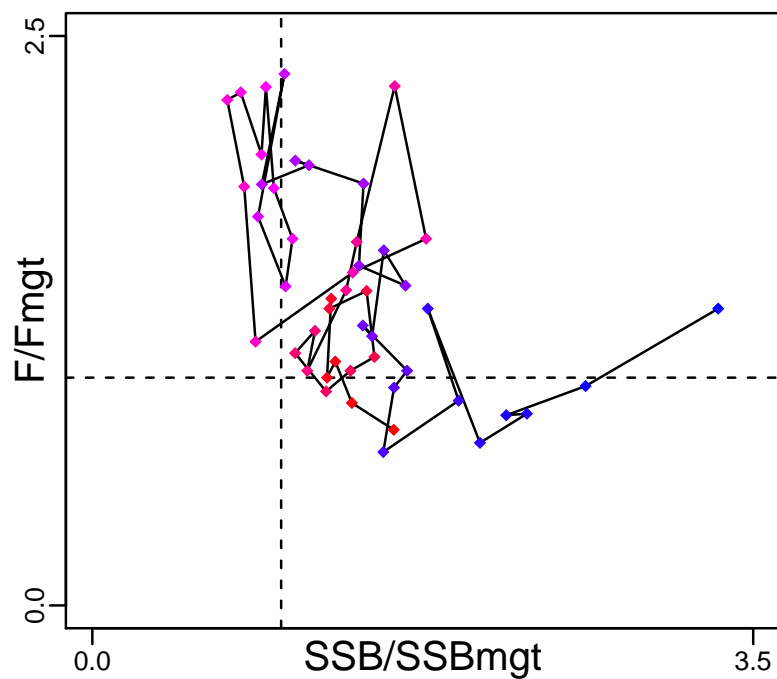
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	6924	-	-
SSB	SSB-MT	2019	4420	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,975,000	-	1
F	F-1/yr	2019	0.229	-	4 to 8
ER	ER-calc-ratio	2019	0.156	-	-
TC	TC-MT	2019	997		
TL	TL-MT	2019	850		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.293		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.456		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.263		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.984		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.771		
ER/ERmgt	-	-	-		

Common sole Celtic Sea [SOLECS]

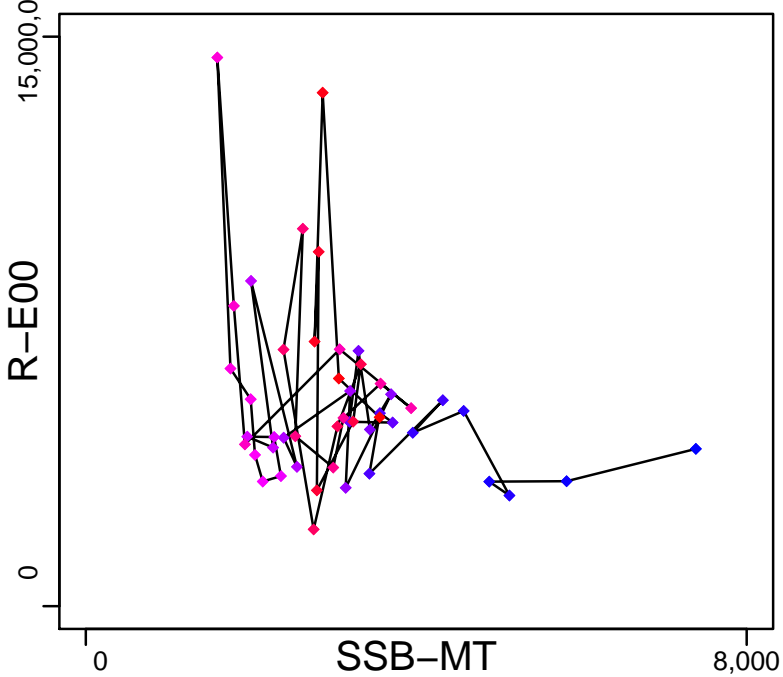
Kobe MSYpref (1970–2019–ICESIMP2021)



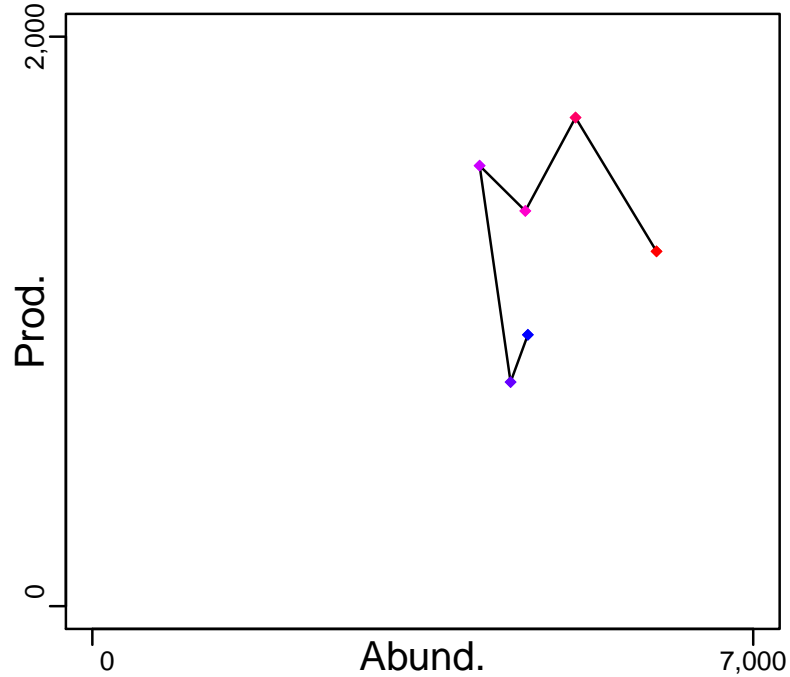
Kobe MGTpref (1970–2019–ICESIMP2021)



Spawner Recruit (1970–2019–ICESIMP2021)



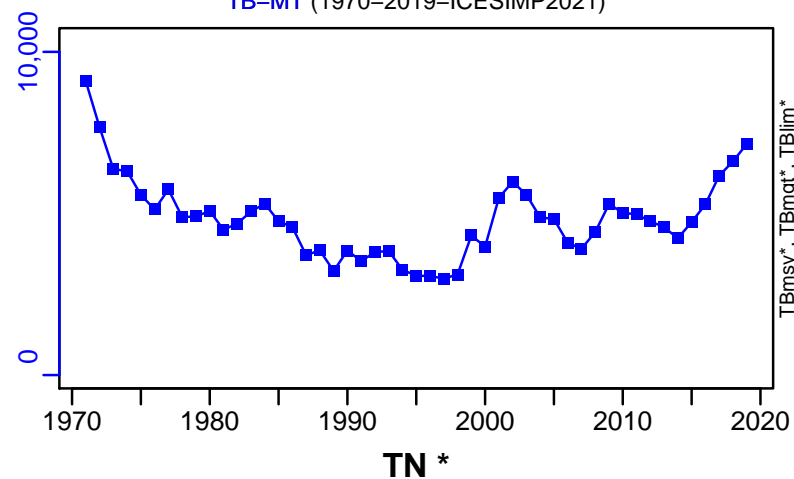
Production (1970–2019–ICESIMP2021)



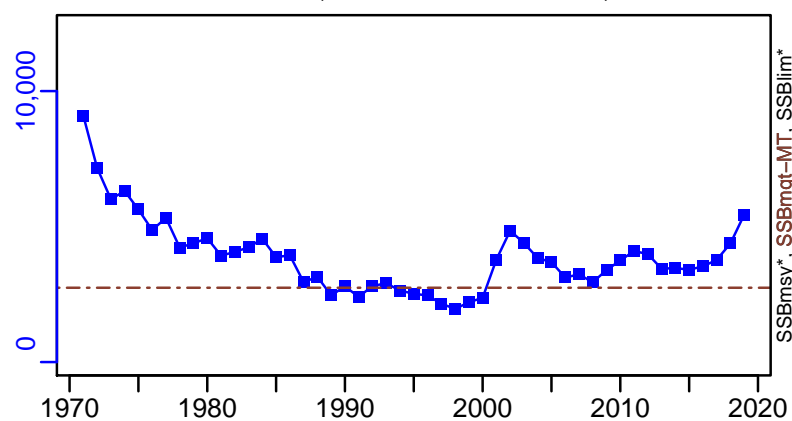
◆ Start Year ◆ End Year * No Data

Common sole Celtic Sea [SOLECS]

TB-MT (1970–2019–ICESIMP2021)



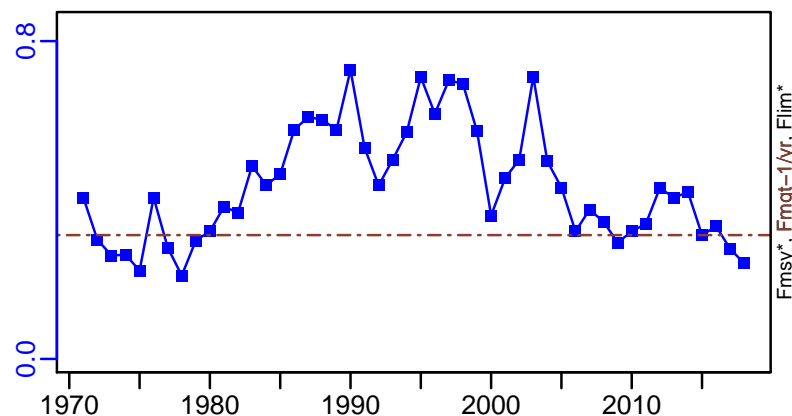
SSB-MT (1970–2019–ICESIMP2021)



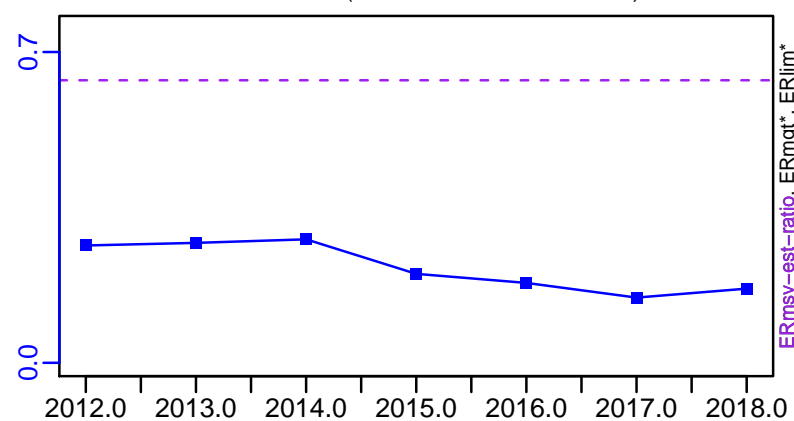
TN *



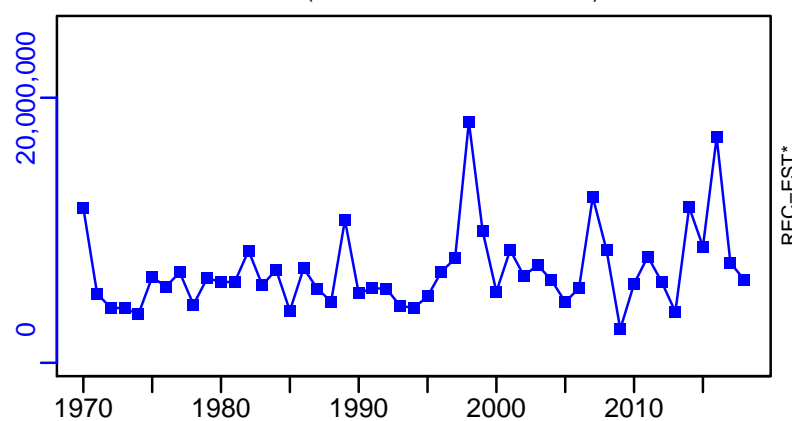
F-1/yr (1970–2019–ICESIMP2021)



ER-calc-ratio (1970–2019–ICESIMP2021)

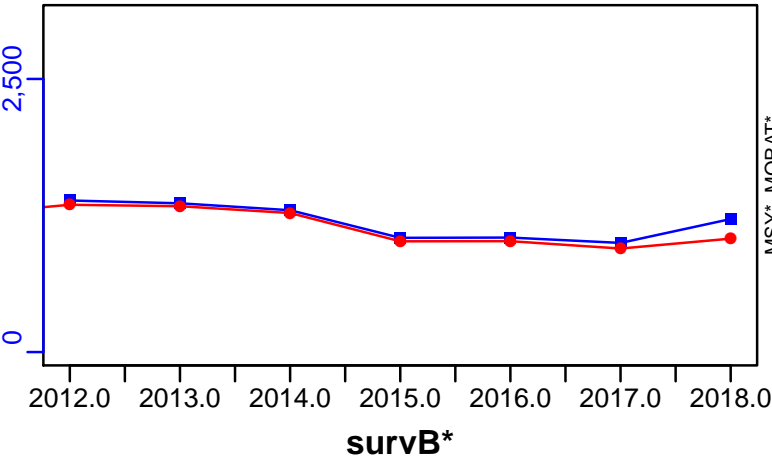


R-E00 (1970–2019–ICESIMP2021)



Common sole Celtic Sea [SOLECS]

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



TAC*, Cpair*, Cadv*



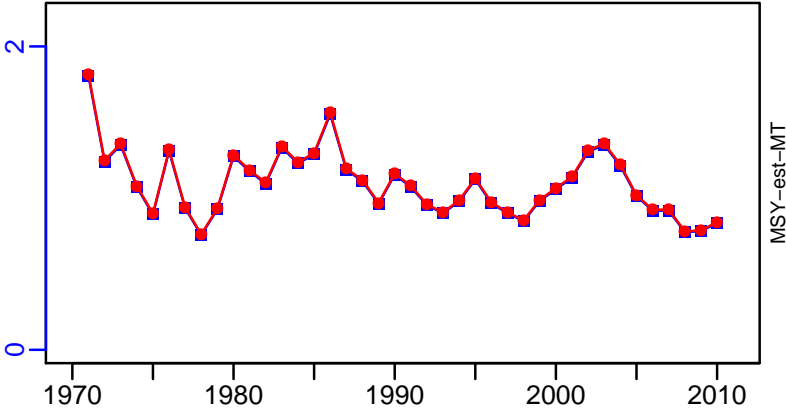
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1970–2011–NEUBAUER)



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

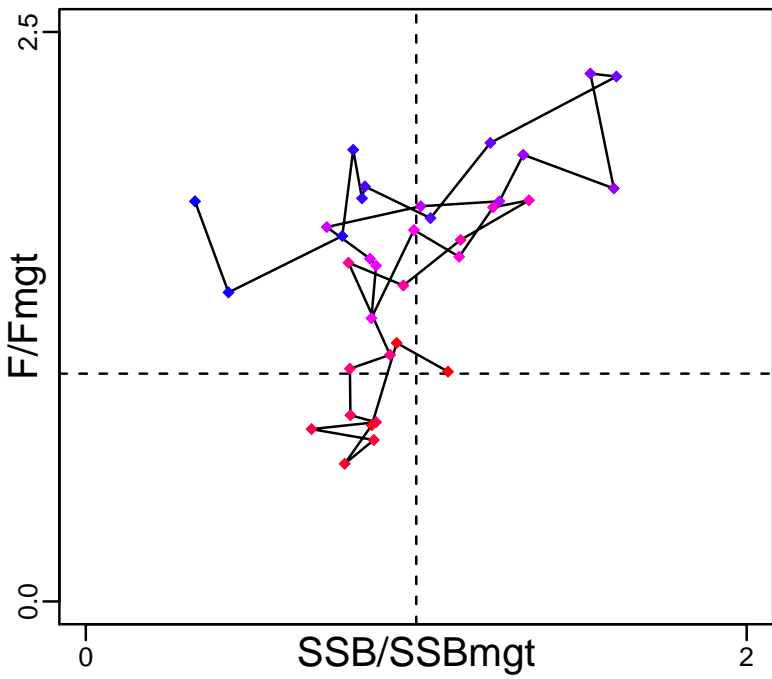
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBFAS-SOLEIIa-2224-1983-2019-ICESIMP2021
Area	ICES 22-24-3a
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	3213
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.23
ERmsy	ERmsy-est-ratio	2019	0.293
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	2600
Fmgt	Fmgt-1/yr	2019	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	930
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1850
Flim	Flim-1/yr	2018	0.315
ERlim	-	-	-

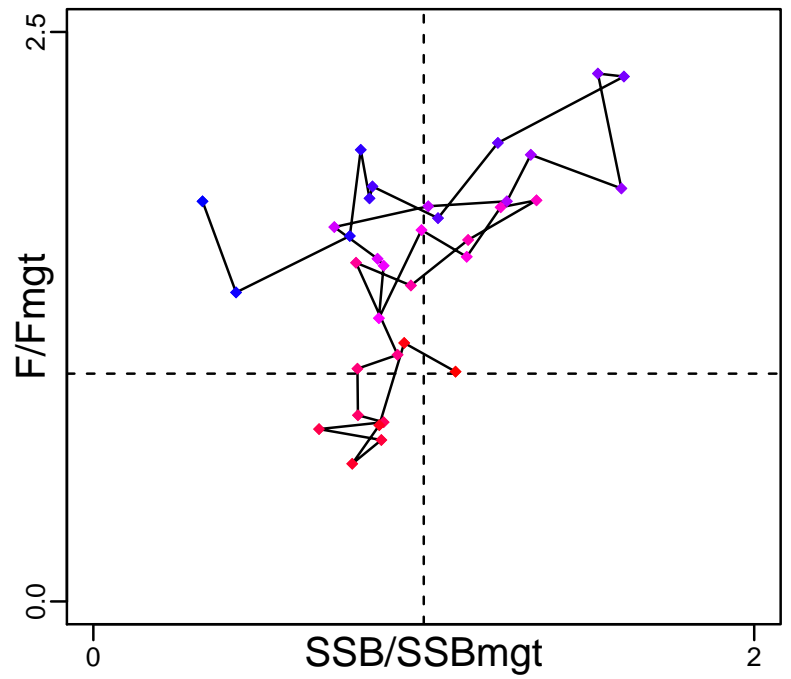
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3460	Both	-
SSB	SSB-MT	2019	2802	-	-
TN	-	-	-	-	-
R	R-E00	2019	2618	-	1
F	F-1/yr	2019	0.232	-	4 to 8
ER	ER-calc-ratio	2019	0.143	-	-
TC	TC-MT	2011	538		
TL	TL-MT	2019	434		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.787		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.213		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.488		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.078		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.009		
ER/ERmgt	-	-	-		

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

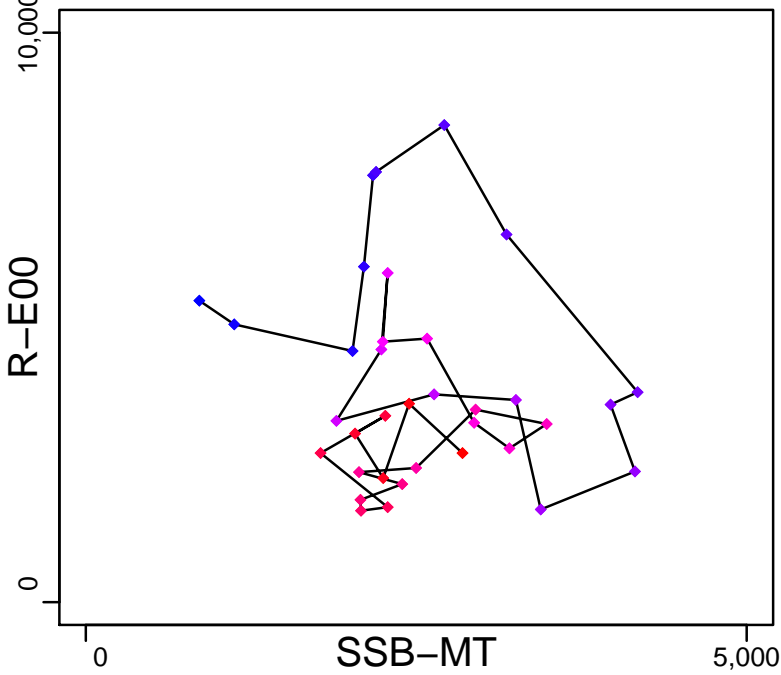
Kobe MSYpref (1983–2019–ICESIMP2021)



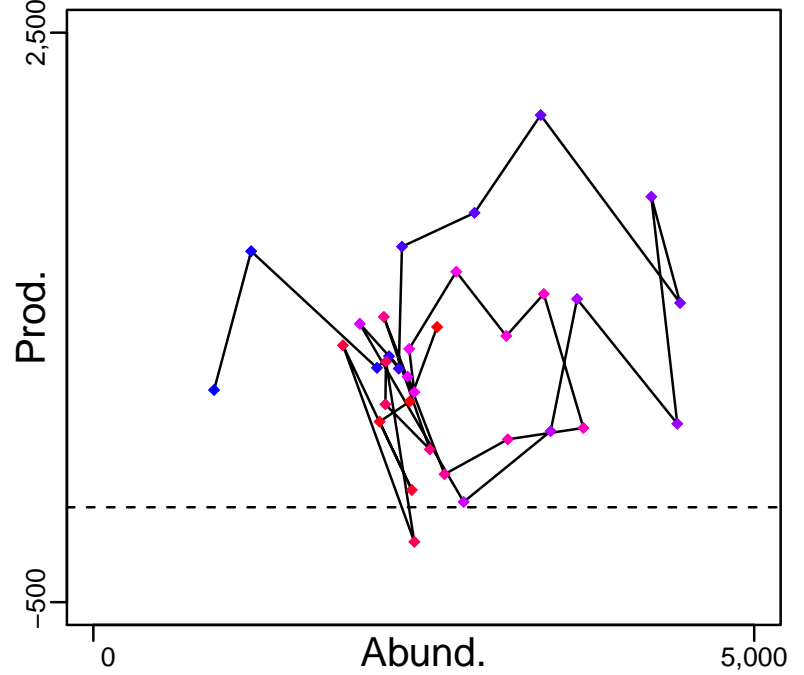
Kobe MGTpref (1983–2019–ICESIMP2021)



Spawner Recruit (1983–2019–ICESIMP2021)



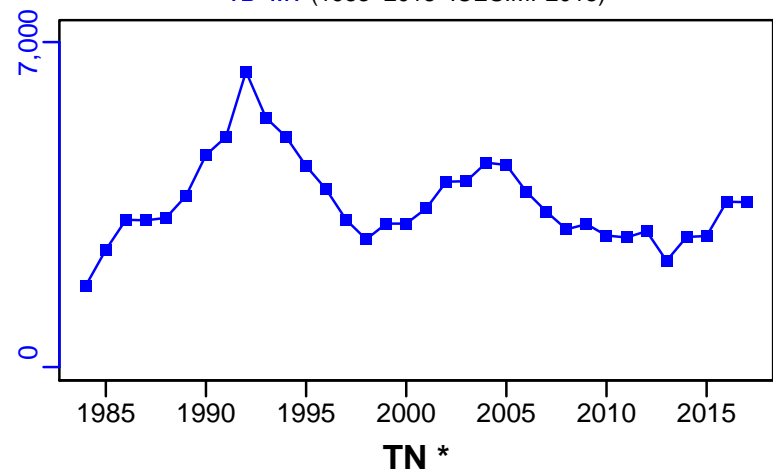
Production (1983–2019–ICESIMP2021)



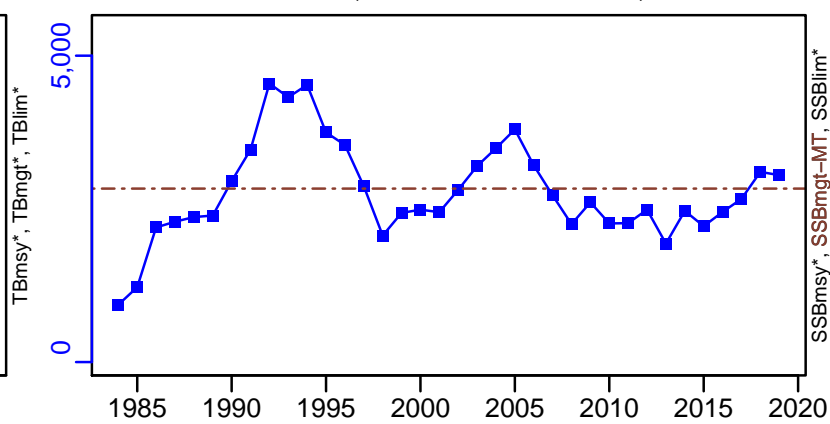
◆ Start Year ◆ End Year * No Data

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

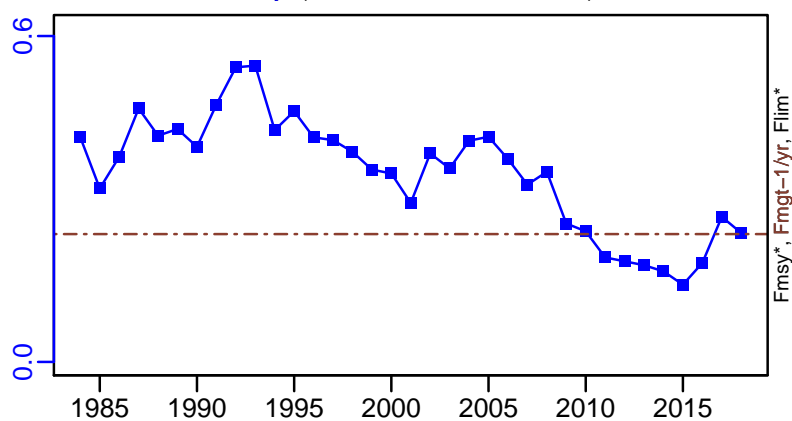
TB-MT (1983–2018–ICESIMP2018)



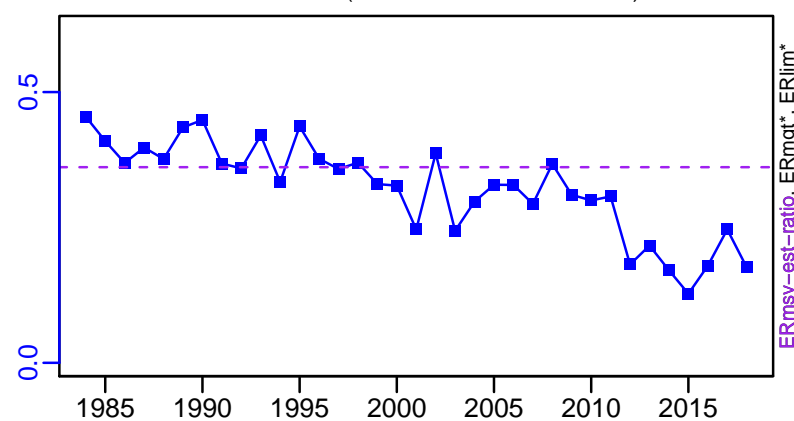
SSB-MT (1983–2019–ICESIMP2021)



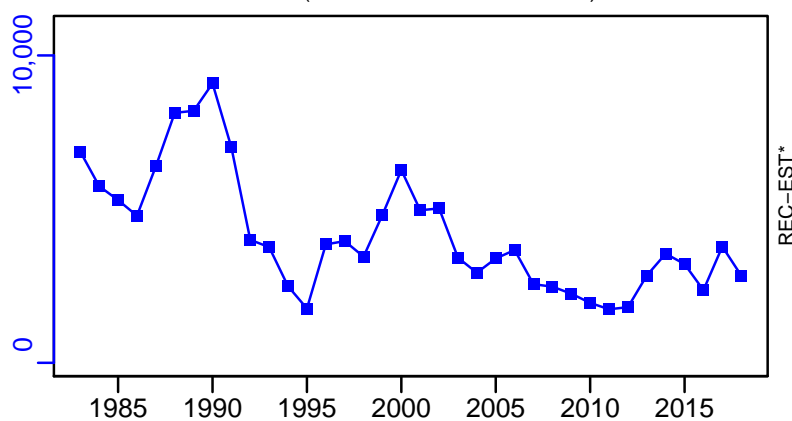
F-1/yr (1983–2019–ICESIMP2021)



ER-calc-ratio (1983–2019–ICESIMP2021)

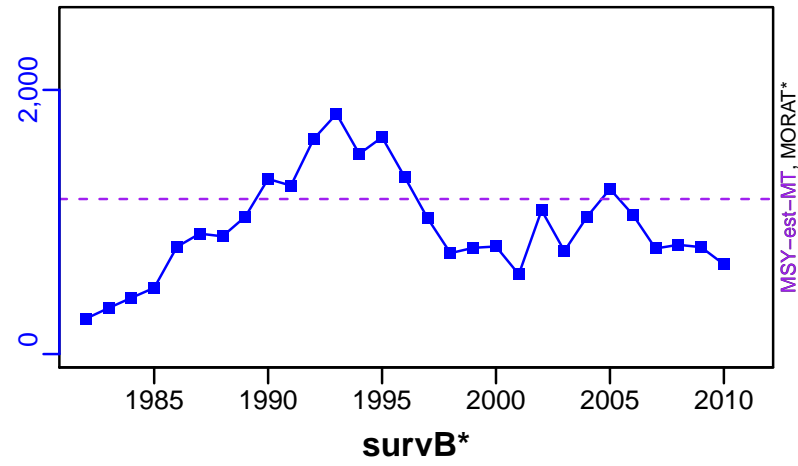


R-E00 (1983–2019–ICESIMP2021)



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

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



TAC*, Cpair*, Cadv*



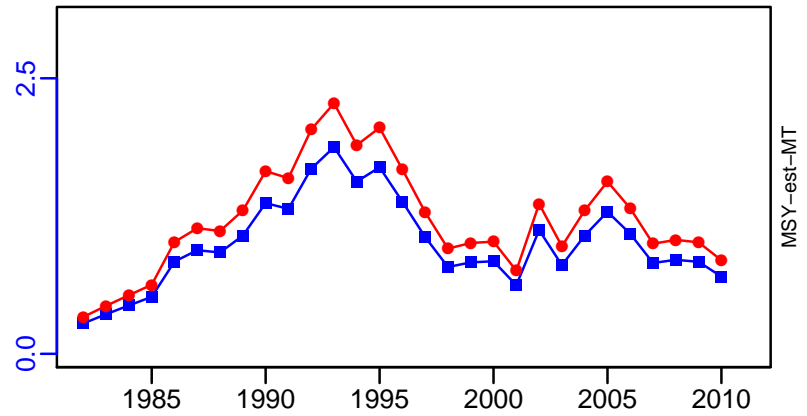
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1982-2011-NEUBAUER)



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

Common sole Irish Sea [SOLEIS]

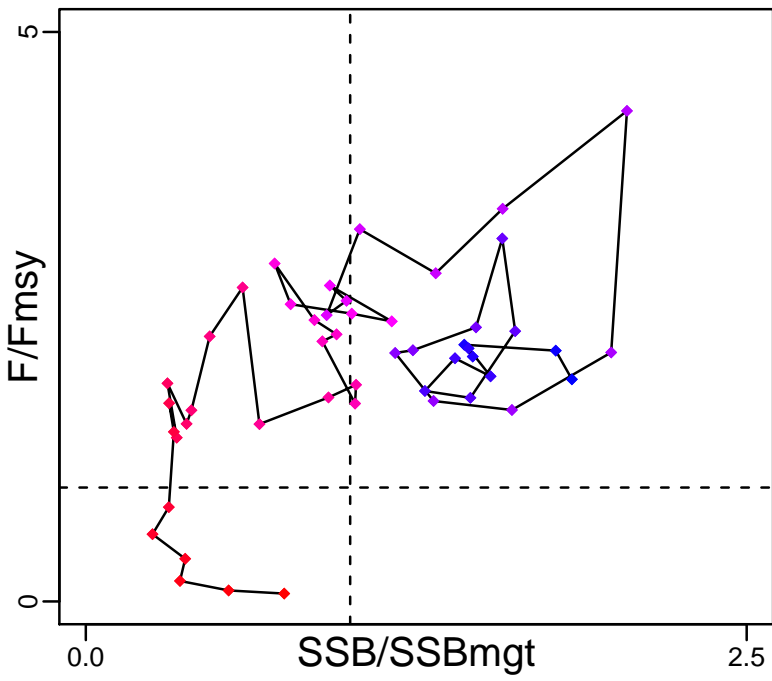
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEIS-1968-2019-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	7686
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.2
ERmsy	ERmsy-est-ratio	2019	0.149
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	3500
Fmgt	Fmgt-1/yr	2019	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	1355
M	M-1/yr	2011	0.1
TBlim	TBlim-MT	2011	2200
SSBlim	SSBlim-MT	2018	2500
Flim	Flim-1/yr	2018	0.29
ERlim	-	-	-

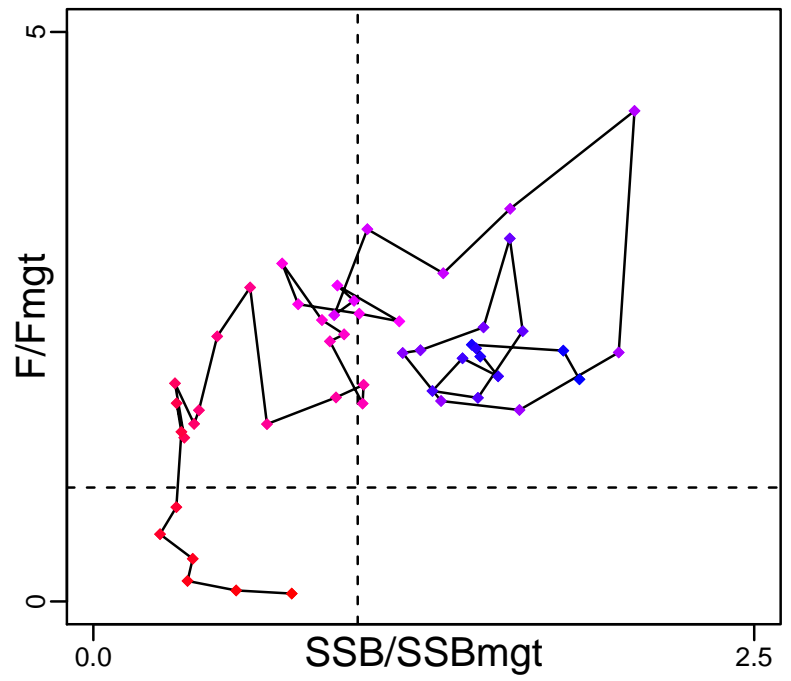
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	3427	-	-
SSB	SSB-MT	2019	3079	-	-
TN	-	-	-	-	-
R	R-E00	2019	1339	-	2
F	F-1/yr	2019	0.014	-	4 to 7
ER	ER-calc-ratio	2019	0.012	-	-
TC	TC-MT	2019	38		
TL	TL-MT	2019	36		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.191		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.069		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.082		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.88		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.069		
ER/ERmgt	-	-	-		

Common sole Irish Sea [SOLEIS]

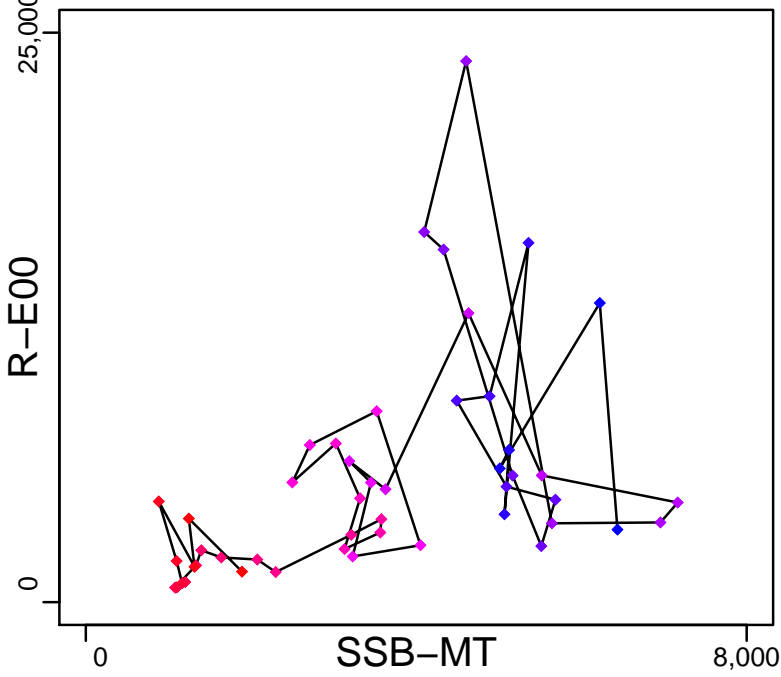
Kobe MSYpref (1968–2019–ICESIMP2021)



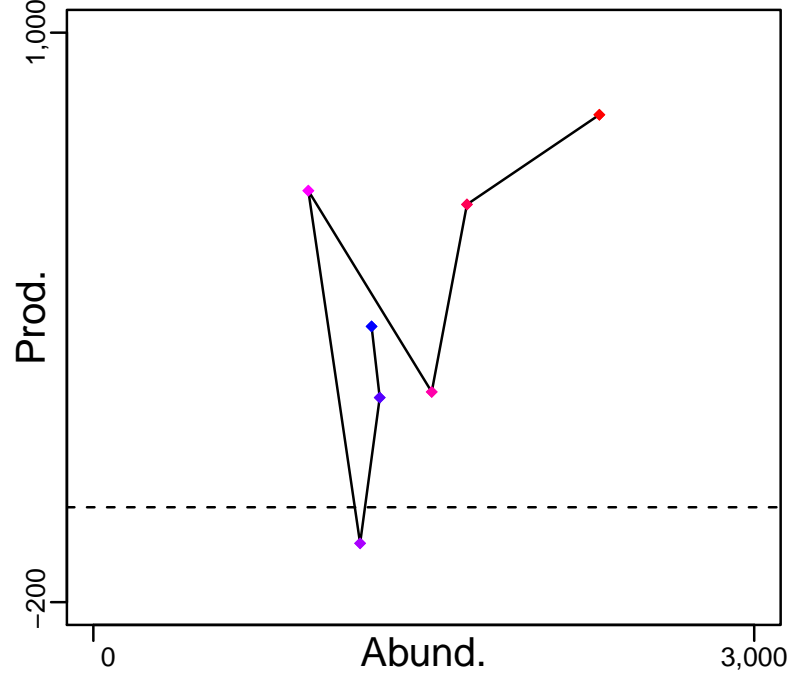
Kobe MGTpref (1968–2019–ICESIMP2021)



Spawner Recruit (1968–2019–ICESIMP2021)



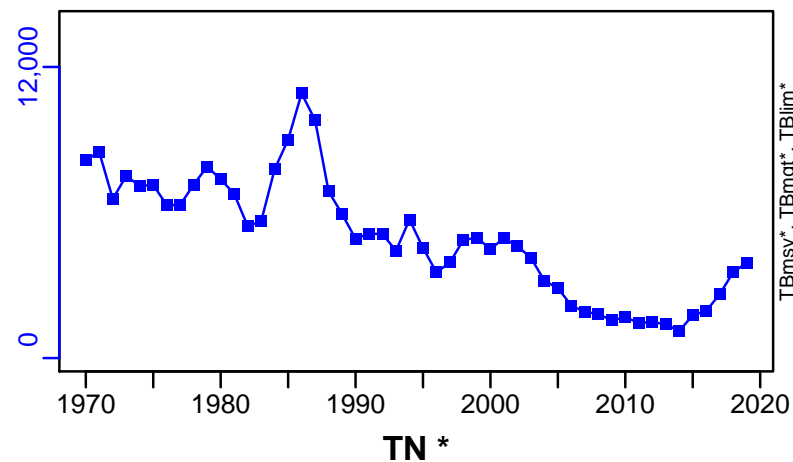
Production (1968–2019–ICESIMP2021)



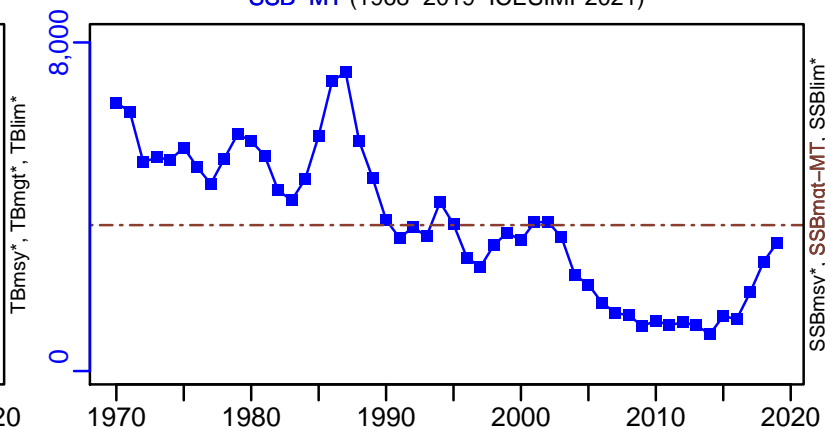
◆ Start Year ◆ End Year * No Data

Common sole Irish Sea [SOLEIS]

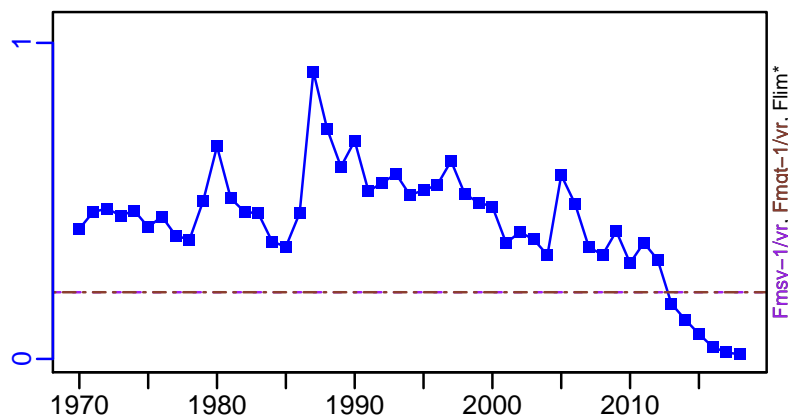
TB-MT (1968–2019–ICESIMP2021)



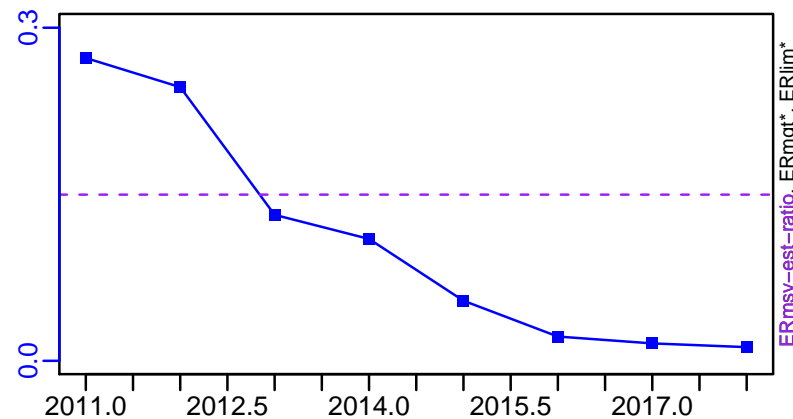
SSB-MT (1968–2019–ICESIMP2021)



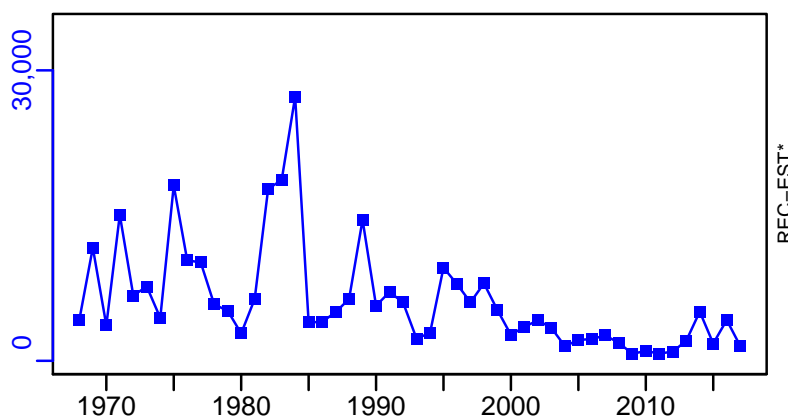
F-1/yr (1968–2019–ICESIMP2021)



ER-calc-ratio (1968–2019–ICESIMP2021)

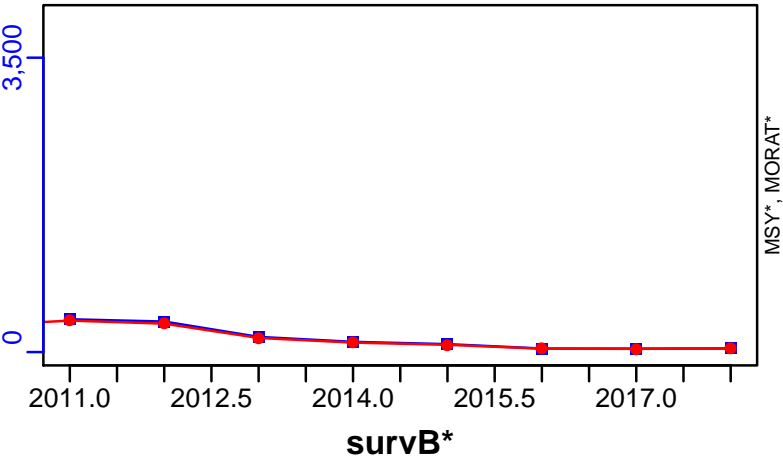


R-E00 (1968–2019–ICESIMP2021)



Common sole Irish Sea [SOLEIS]

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



TAC*, Cpair*, Cadv*



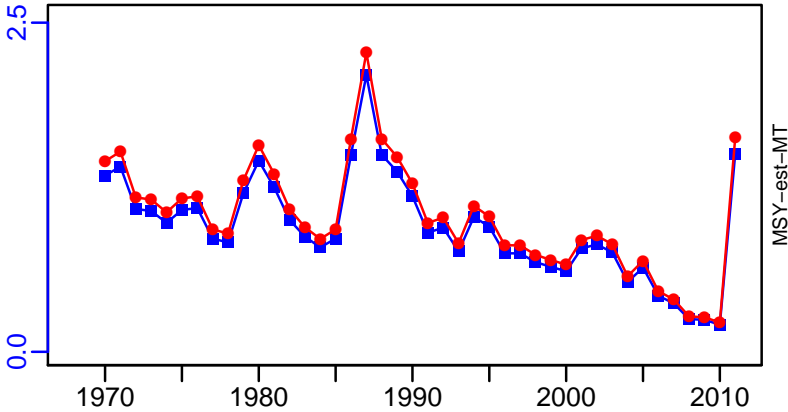
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1968–2011–NEUBAUER)



Common sole North Sea [SOLENS]

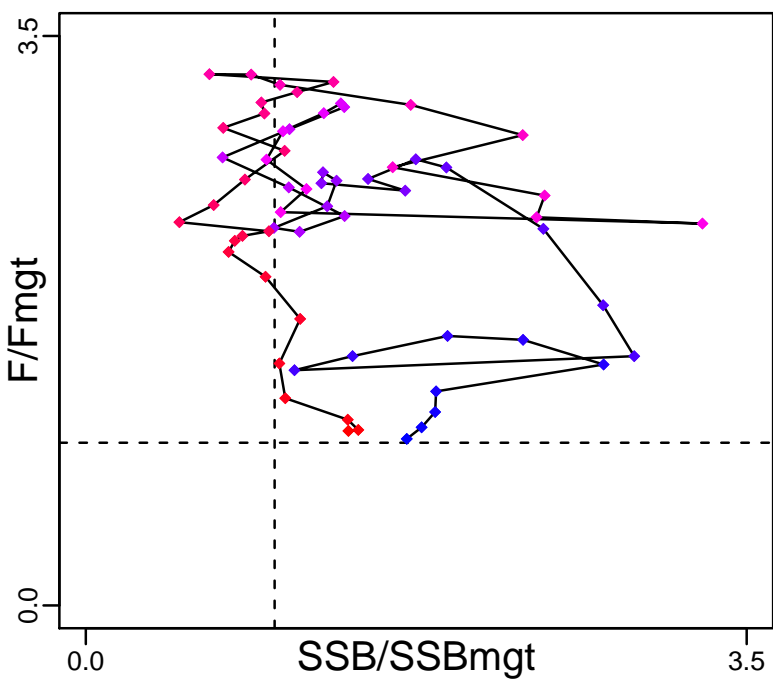
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLENS-1956-2019-ICESIMP2021
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	52,678
Fmsy	Fmsy-1/yr	2018	0.2
ERmsy	ERmsy-est-ratio	2019	0.479
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	37,000
Fmgt	Fmgt-1/yr	2019	0.202
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	25,055
M	M-1/yr	2010	0.1
TBlim	TBlim-MT	2010	25,000
SSBlim	SSBlim-MT	2018	26,300
Flim	Flim-1/yr	2018	0.62
ERlim	-	-	-

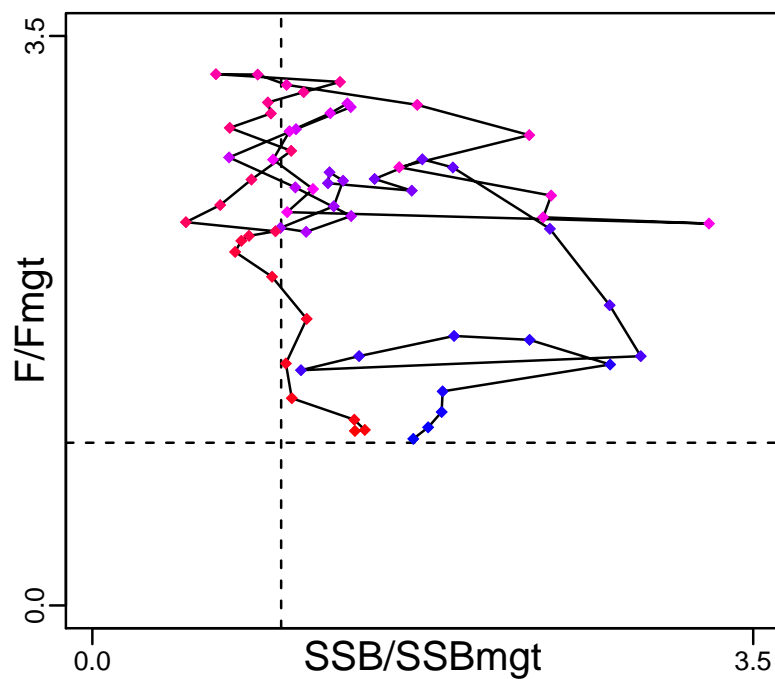
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	64,800	Both	-
SSB	SSB-MT	2019	55,591	-	-
TN	-	-	-	-	-
R	R-E00	2019	476,477,000	-	1
F	F-1/yr	2019	0.217	-	2 to 6
ER	ER-calc-ratio	2019	0.172	-	-
TC	TC-MT	2017	15,400		
TL	TL-MT	2019	11,199		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.668		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.09		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.359		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.502		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.073		
ER/ERmgt	-	-	-		

Common sole North Sea [SOLENS]

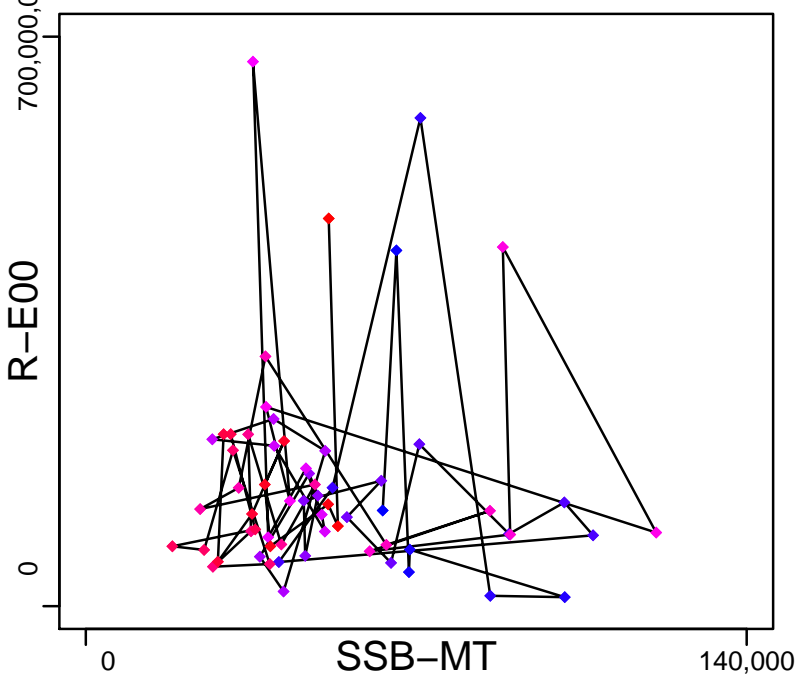
Kobe MSYpref (1956–2019–ICESIMP2021)



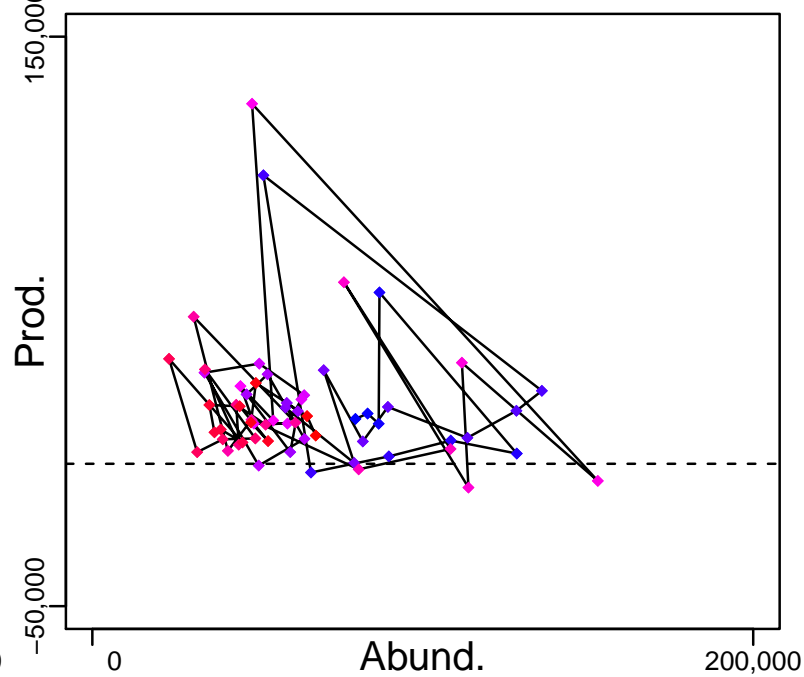
Kobe MGTpref (1956–2019–ICESIMP2021)



Spawner Recruit (1956–2019–ICESIMP2021)



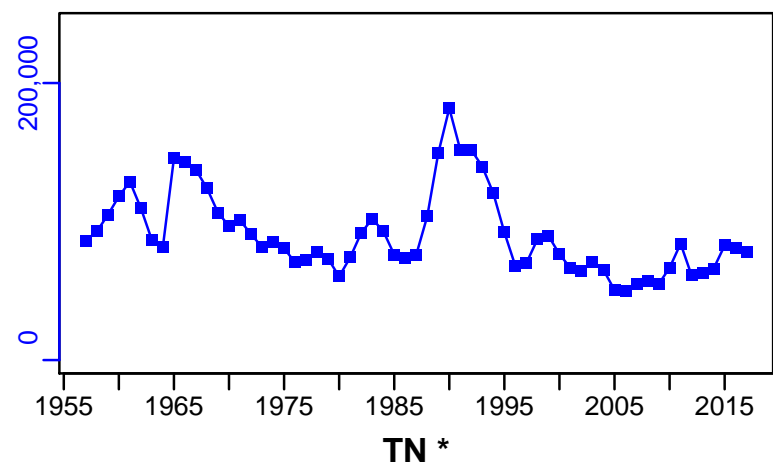
Production (1956–2019–ICESIMP2021)



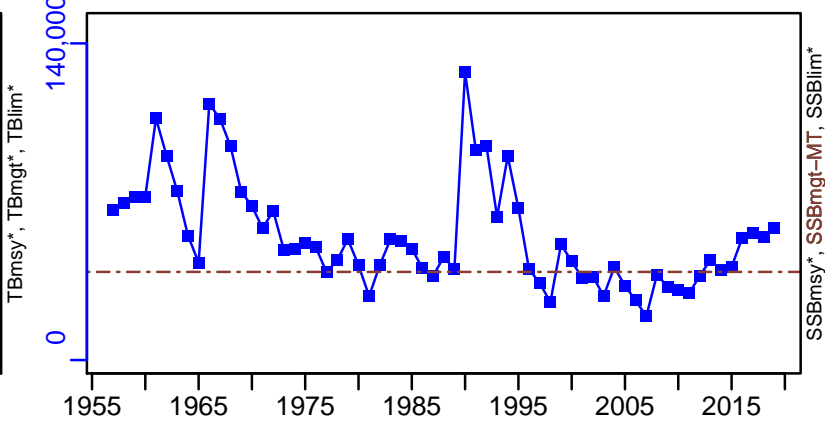
◆ Start Year ◆ End Year * No Data

Common sole North Sea [SOLENS]

TB-MT (1956–2018–ICESIMP2018)



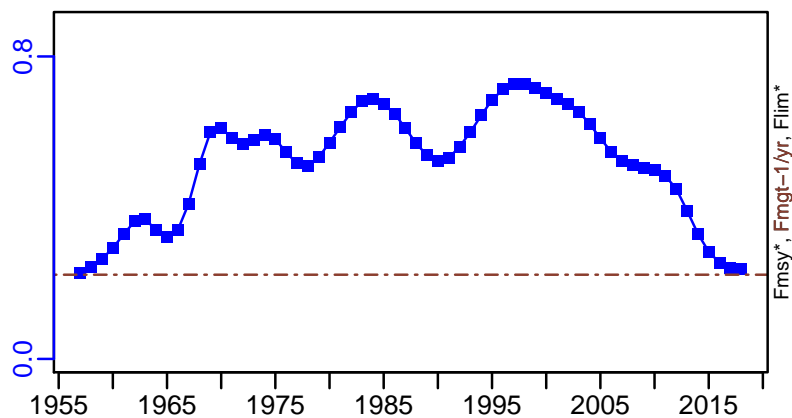
SSB-MT (1956–2019–ICESIMP2021)



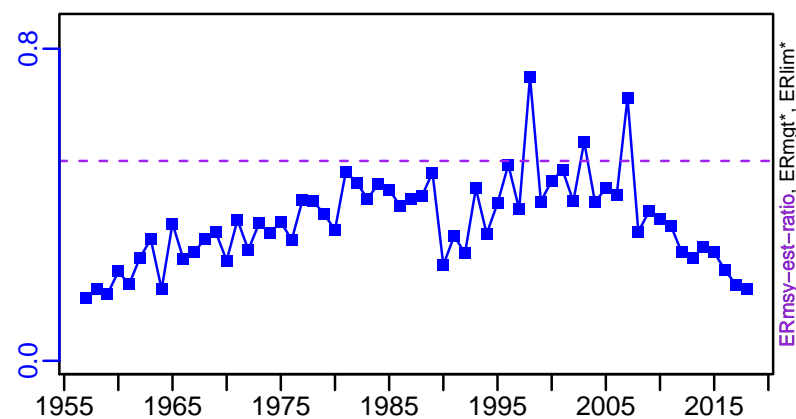
TN *



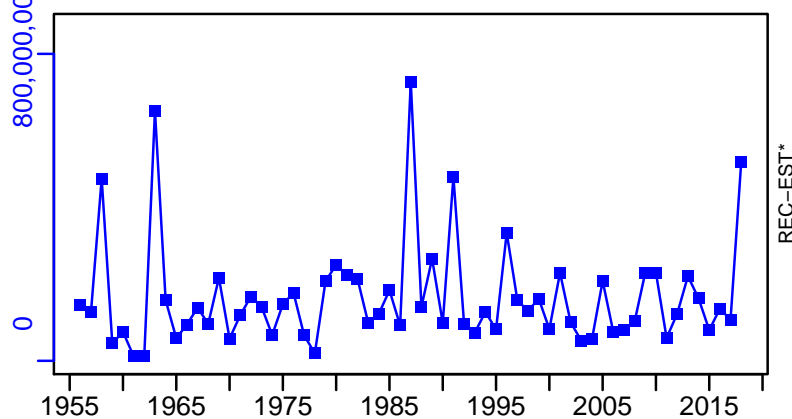
F-1/yr (1956–2019–ICESIMP2021)



ER-calc-ratio (1956–2019–ICESIMP2021)

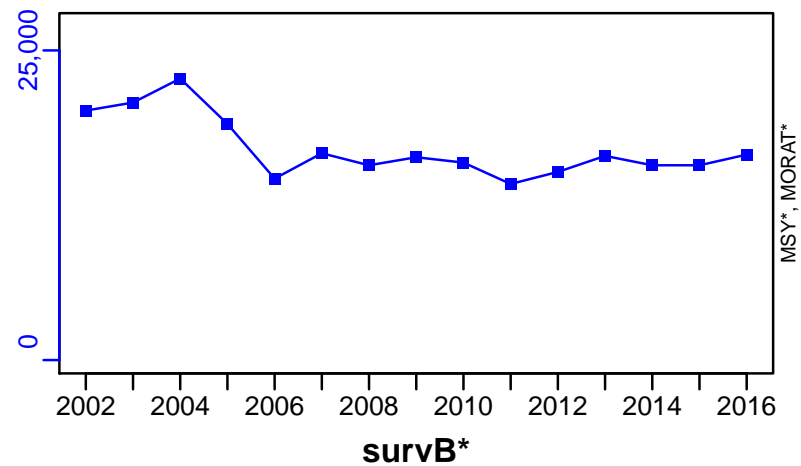


R-E00 (1956–2019–ICESIMP2021)



Common sole North Sea [SOLENS]

TC-MT, TL*, RecC* (1956–2017–ICESIMP2018)



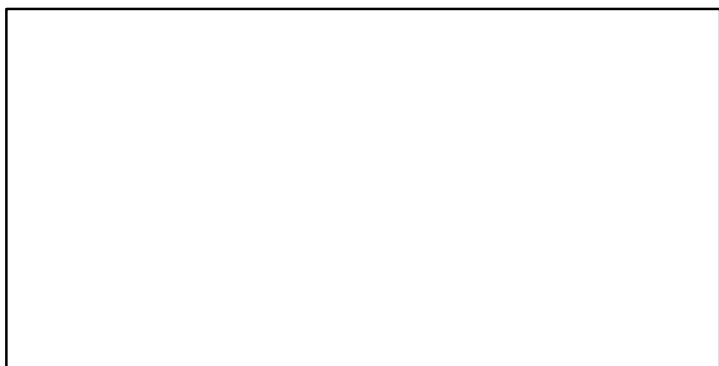
TAC*, Cpair*, Cadv*



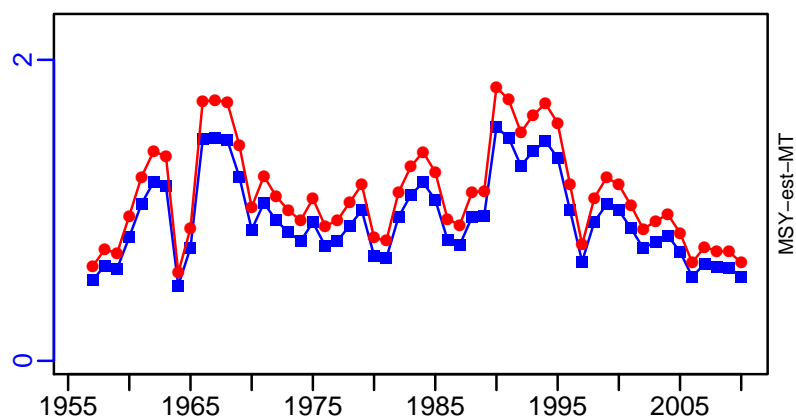
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1956–2010–NEUBAUER)



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

Common sole ICES 7bc [SOLEVIIbc]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIbc-1908-2016-ICESIMP2018
Area	ICES 7bc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 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	2016	43		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

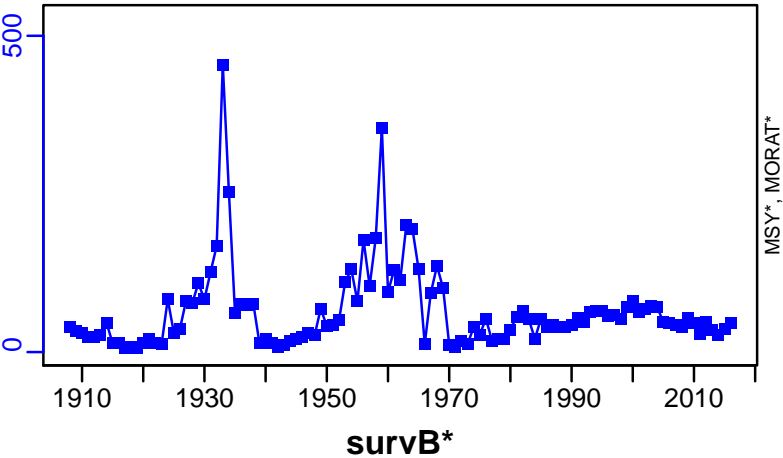


Recruits*



Common sole ICES 7bc [SOLEVIIbc]

TL-MT, TC*, RecC* (1908-2016-ICESIMP2018)



TAC*, Cpair*, Cadv*



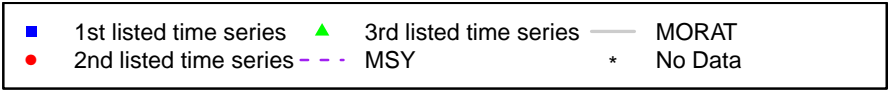
CPUE*



EFFORT*



CdivMSY*



Common sole Eastern English Channel [SOLEVIId]

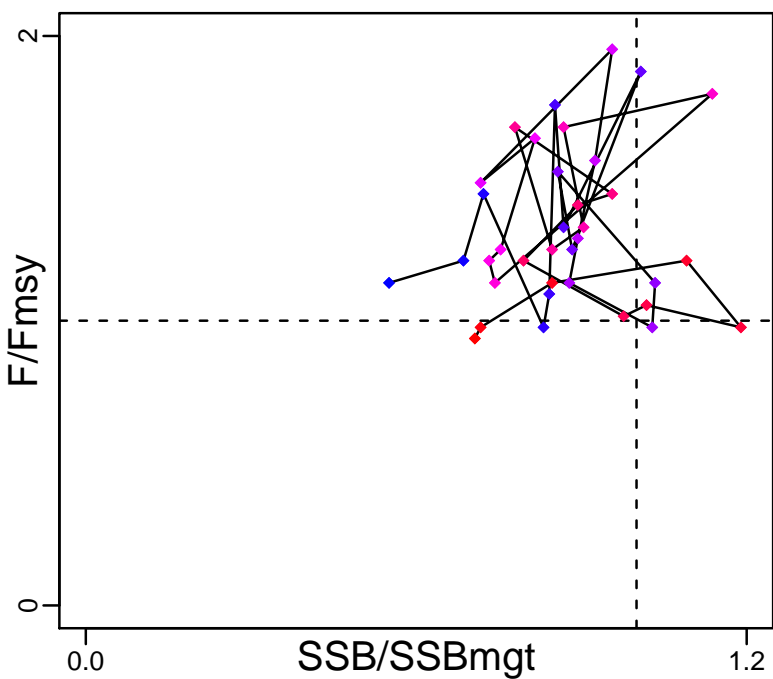
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLEVIId-1981-2018-ICESIMP2021
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	16,106
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.256
ERmsy	ERmsy-est-ratio	2018	0.187
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	19,251
Fmgt	Fmgt-1/yr	2018	0.256
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	4828
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	13,751
Flim	Flim-1/yr	2018	0.359
ERlim	-	-	-

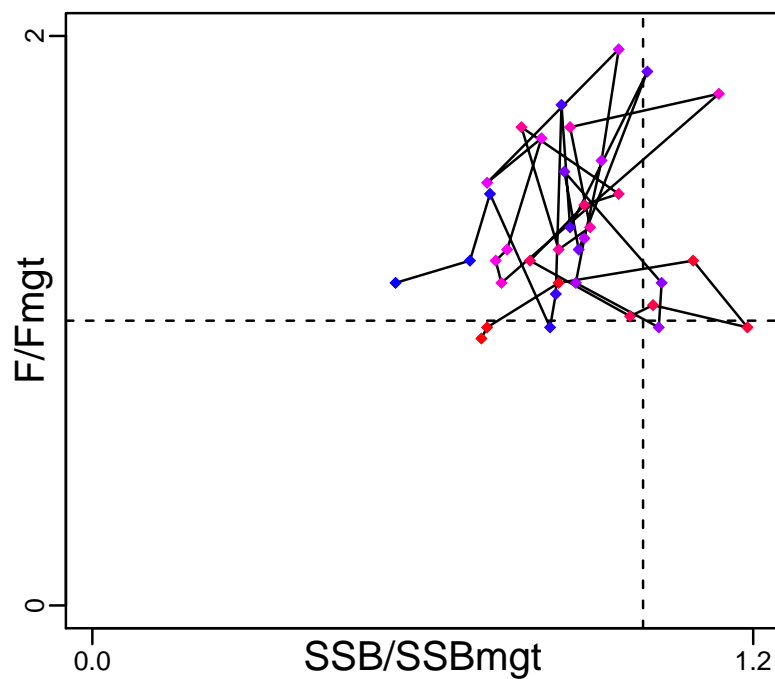
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	17,300	Both	-
SSB	SSB-MT	2018	14,300	Both	-
TN	-	-	-	-	-
R	R-E00	2018	24,900,000	-	1
F	F-1/yr	2018	0.24	-	3 to 7
ER	ER-calc-ratio	2018	0.14	-	-
TC	TC-MT	2018	2430		
TL	TL-MT	2018	2230		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.366		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.938		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.752		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.743		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.938		
ER/ERmgt	-	-	-		

Common sole Eastern English Channel [SOLEVIId]

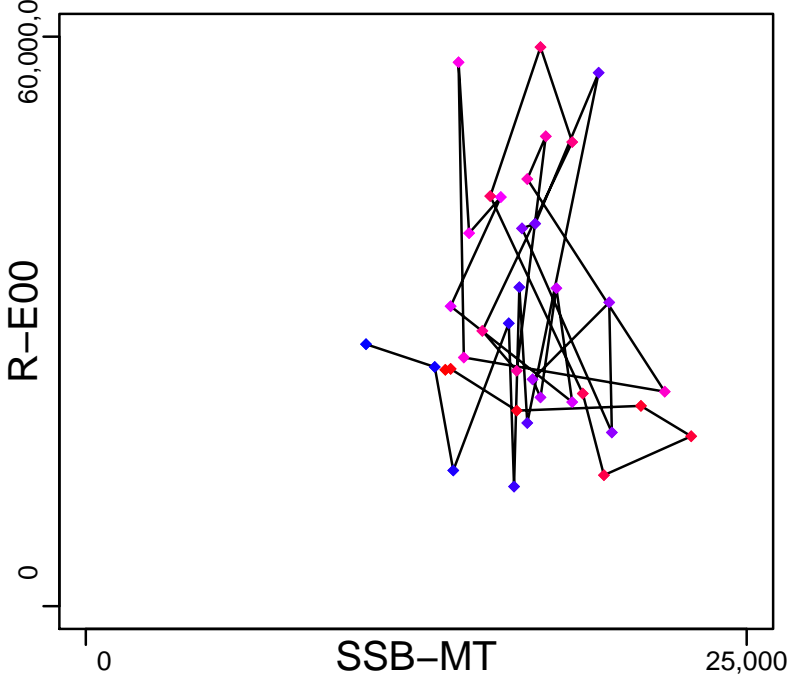
Kobe MSYpref (1981–2018–ICESIMP2018)



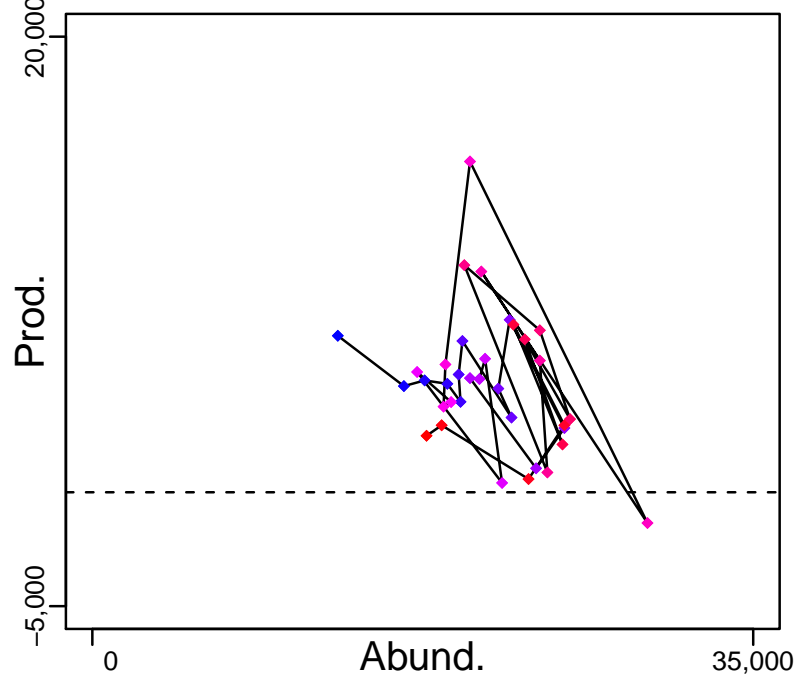
Kobe MGTpref (1981–2018–ICESIMP2018)



Spawner Recruit (1981–2018–ICESIMP2018)



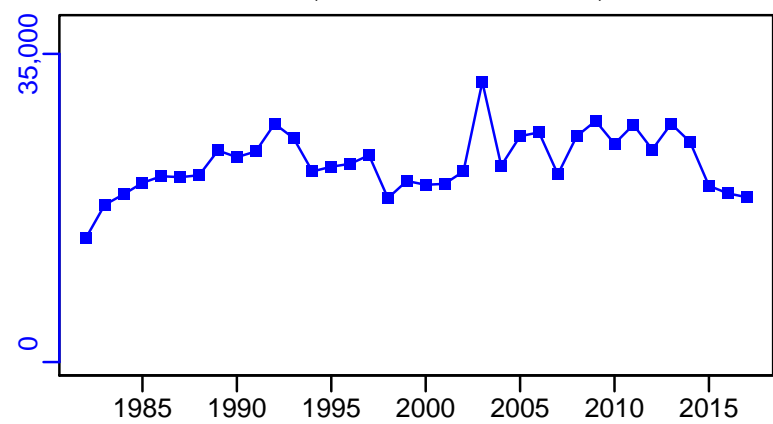
Production (1981–2018–ICESIMP2018)



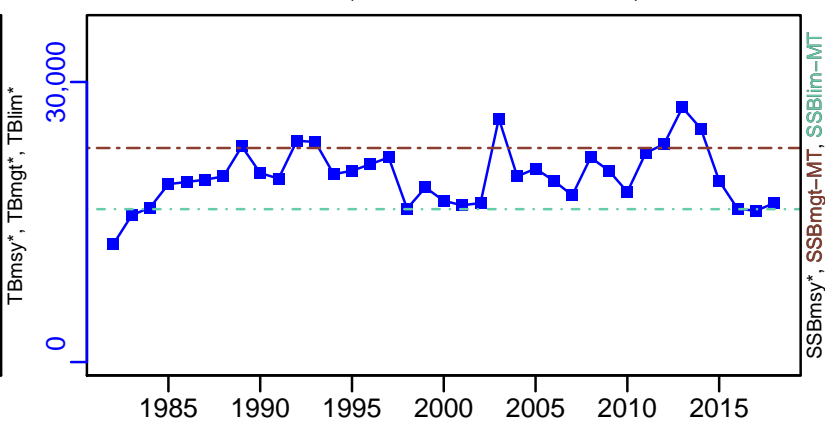
◆ Start Year ◆ End Year * No Data

Common sole Eastern English Channel [SOLEVIId]

TB-MT (1981–2018–ICESIMP2018)



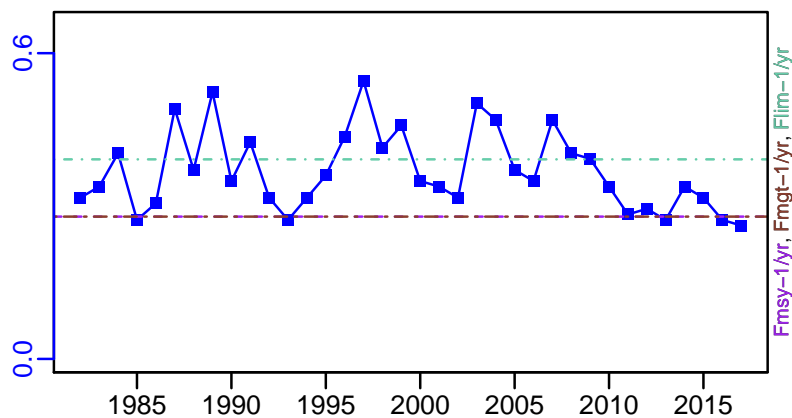
SSB-MT (1981–2018–ICESIMP2018)



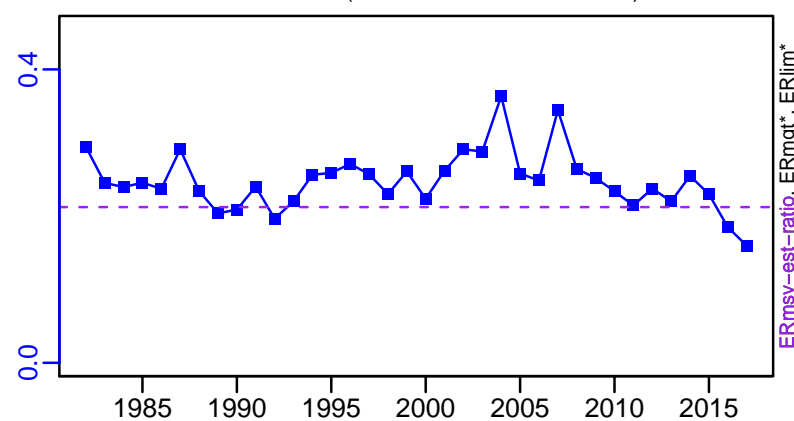
TN *



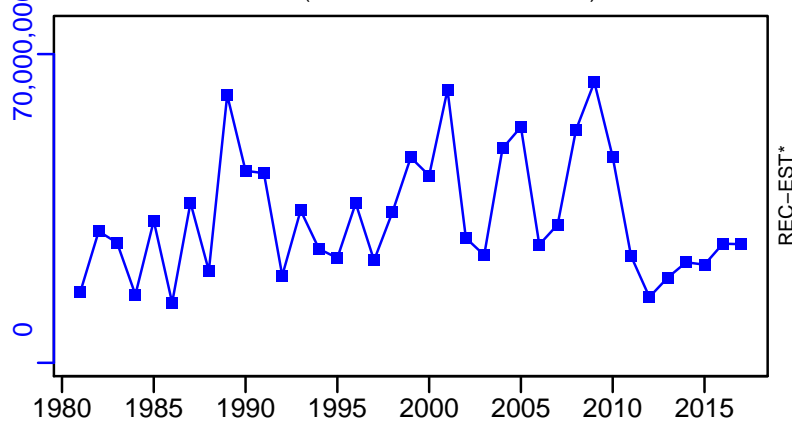
F-1/yr (1981–2018–ICESIMP2018)



ER-calc-ratio (1981–2018–ICESIMP2018)

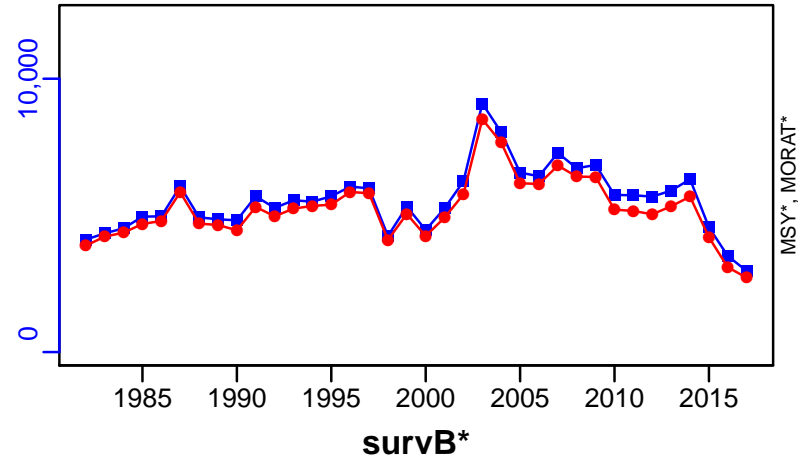


R-E00 (1981–2018–ICESIMP2018)



Common sole Eastern English Channel [SOLEVIId]

TC-MT, TL-MT, RecC* (1981–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



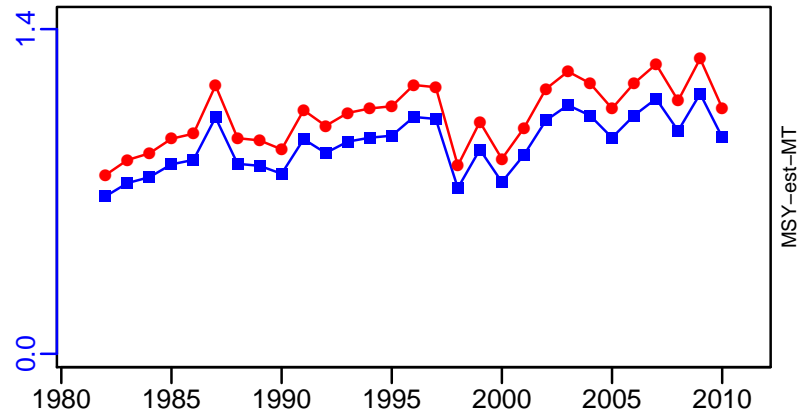
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1981–2011–NEUBAUER)



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

Common sole Western English Channel [SOLEVIIe]

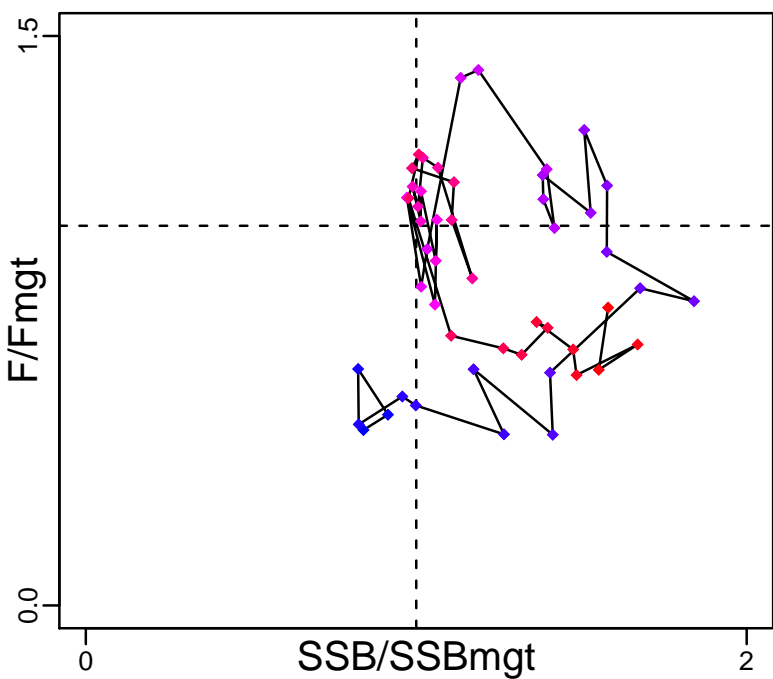
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIe-1967-2019-ICESIMP2021
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	7740
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.291
ERmsy	ERmsy-est-ratio	2019	0.263
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	2900
Fmgt	Fmgt-1/yr	2019	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	1123
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	2039
Flim	Flim-1/yr	2018	0.44
ERlim	-	-	-

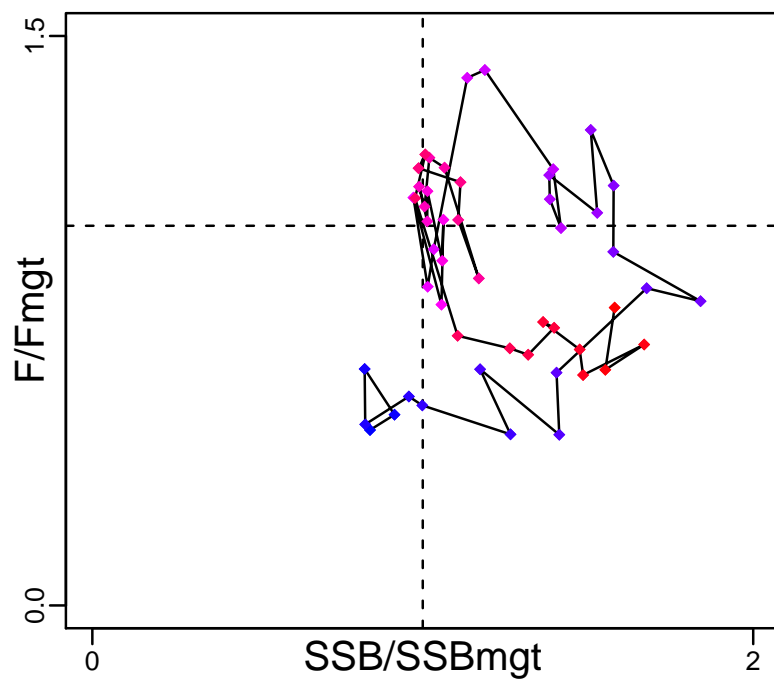
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5934	-	-
SSB	SSB-MT	2019	4756	-	-
TN	-	-	-	-	-
R	R-E00	2019	3,973,000	-	2
F	F-1/yr	2019	0.228	-	3 to 9
ER	ER-calc-ratio	2019	0.181	-	-
TC	TC-MT	2017	924		
TL	TL-MT	2019	1075		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.429		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.739		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.688		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.64		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.784		
ER/ERmgt	-	-	-		

Common sole Western English Channel [SOLEVIIe]

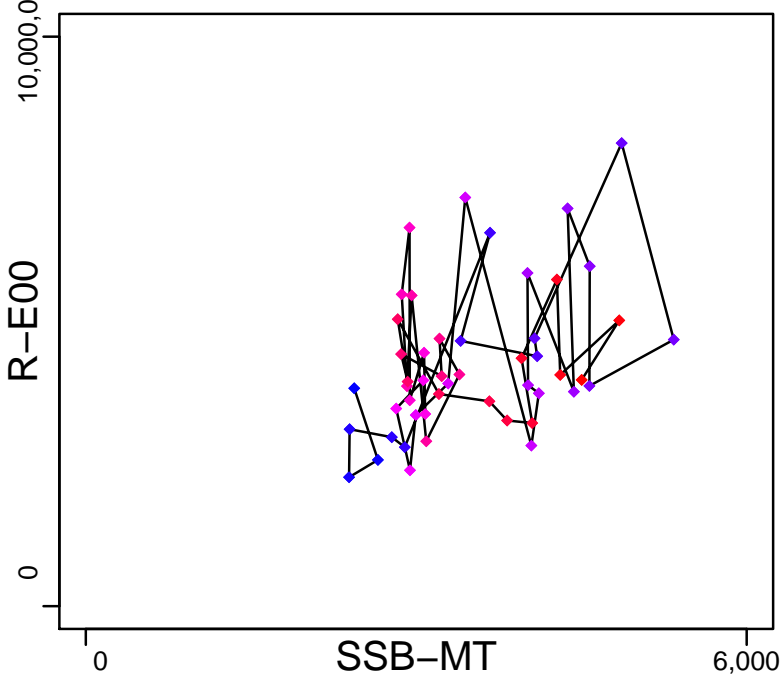
Kobe MSYpref (1967–2019–ICESIMP2021)



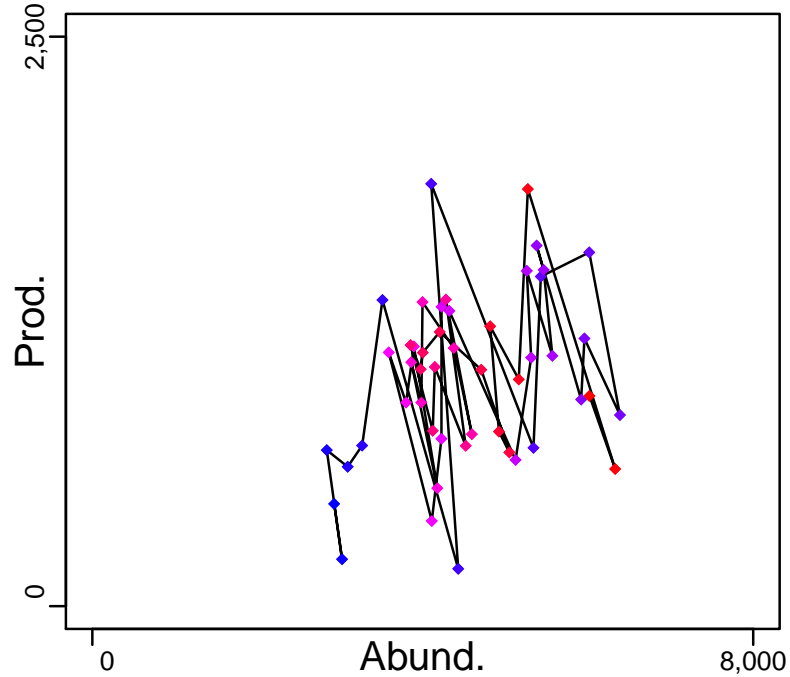
Kobe MGTpref (1967–2019–ICESIMP2021)



Spawner Recruit (1967–2019–ICESIMP2021)



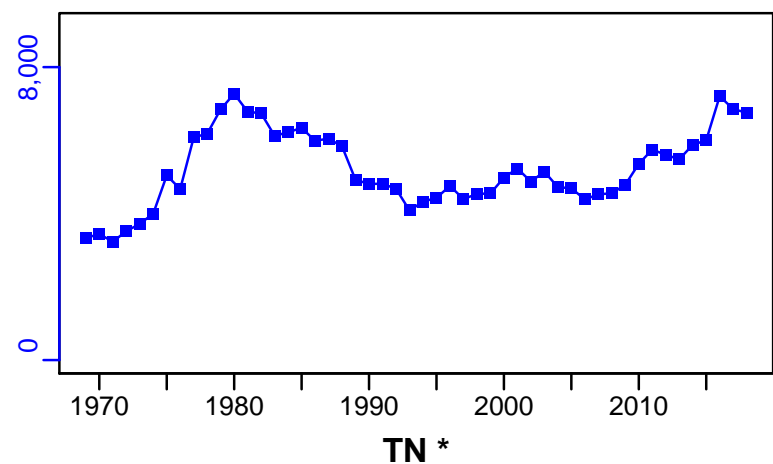
Production (1967–2019–ICESIMP2021)



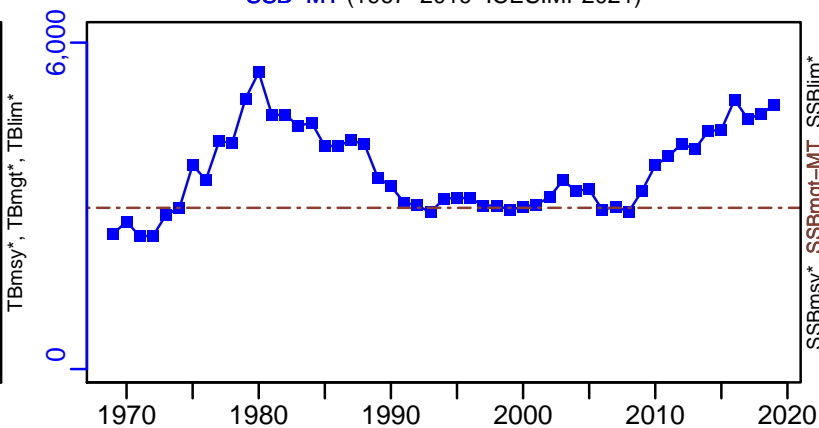
◆ Start Year ◆ End Year * No Data

Common sole Western English Channel [SOLEVile]

TB-MT (1967–2019–ICESIMP2021)



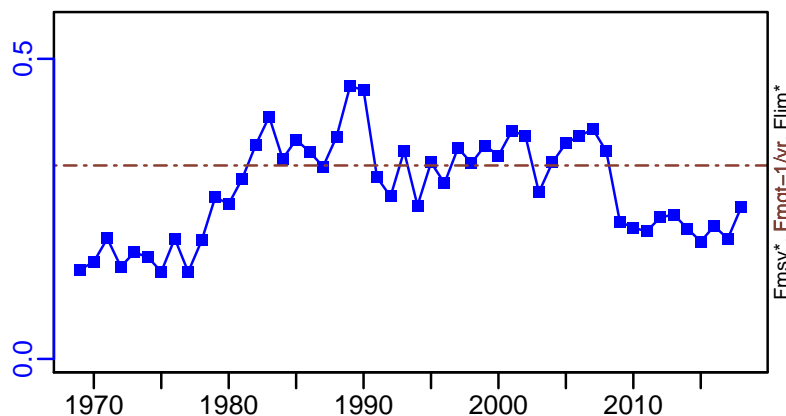
SSB-MT (1967–2019–ICESIMP2021)



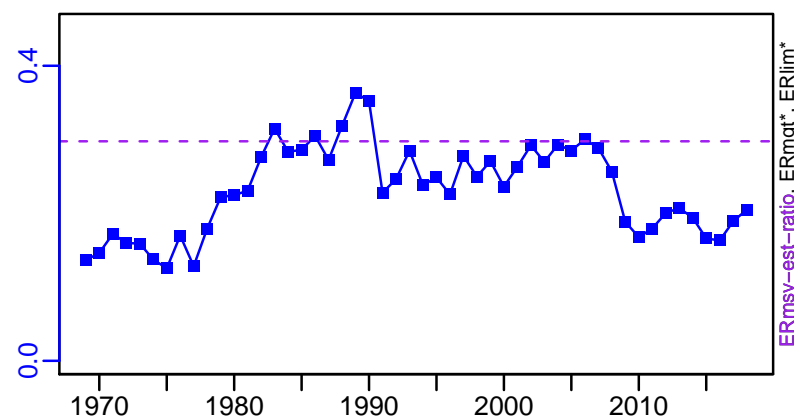
TN *



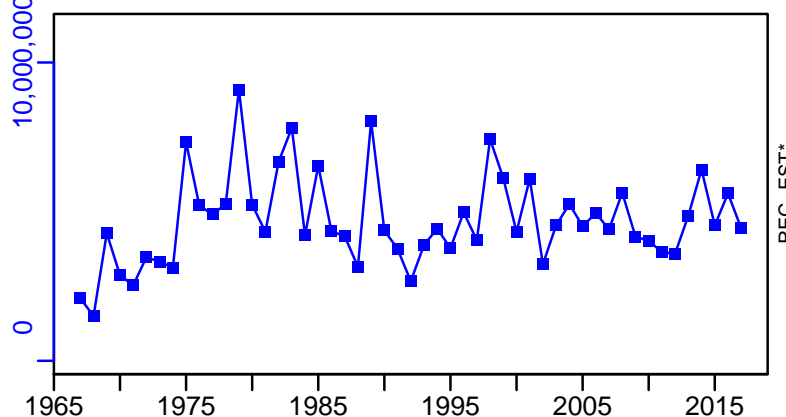
F-1/yr (1967–2019–ICESIMP2021)



ER-calc-ratio (1967–2019–ICESIMP2021)

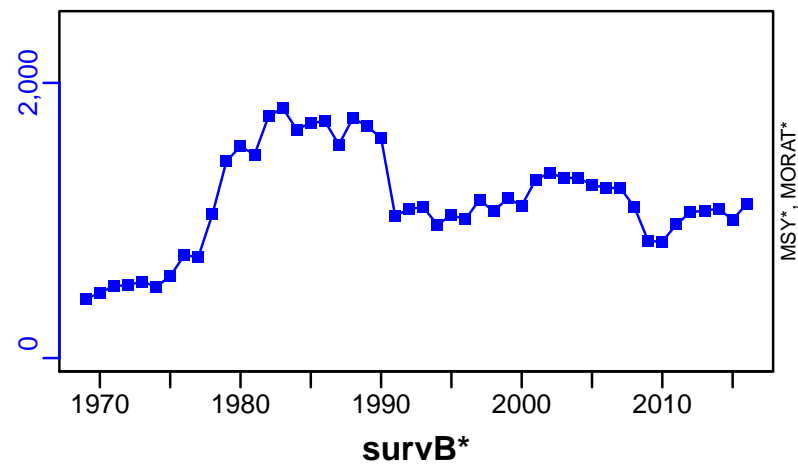


R-E00 (1967–2019–ICESIMP2021)



Common sole Western English Channel [SOLEVILLE]

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



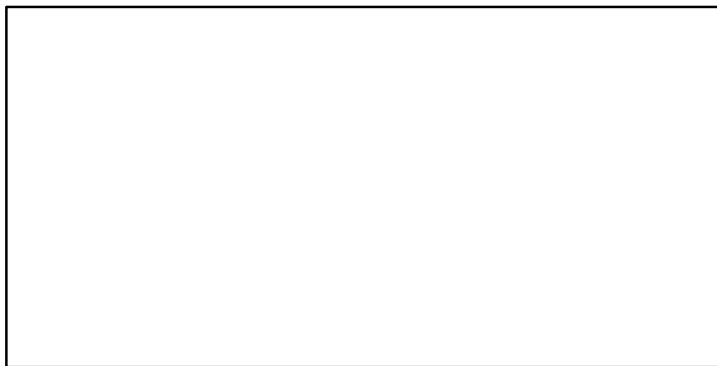
TAC*, Cpair*, Cadv*



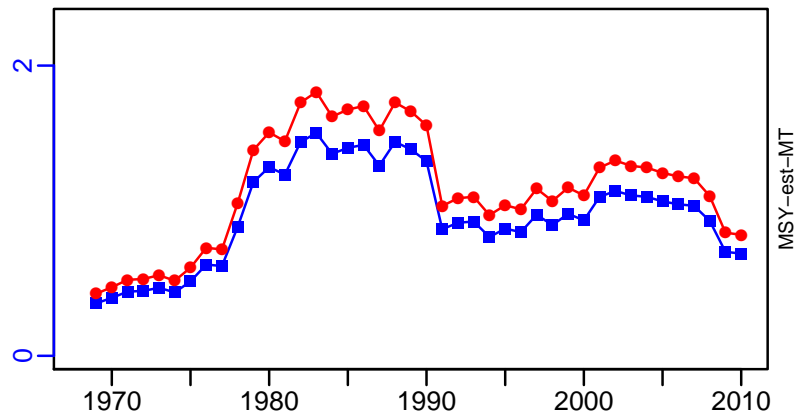
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1968-2010-NEUBAUER)



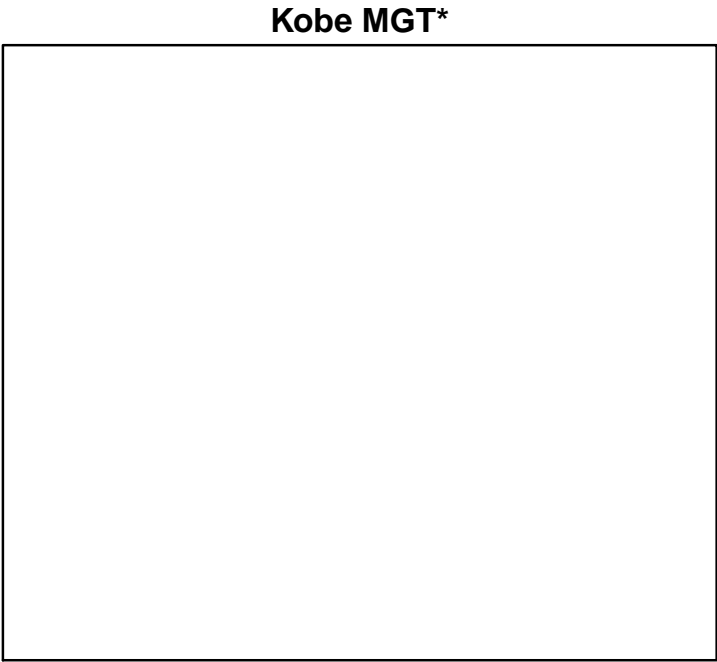
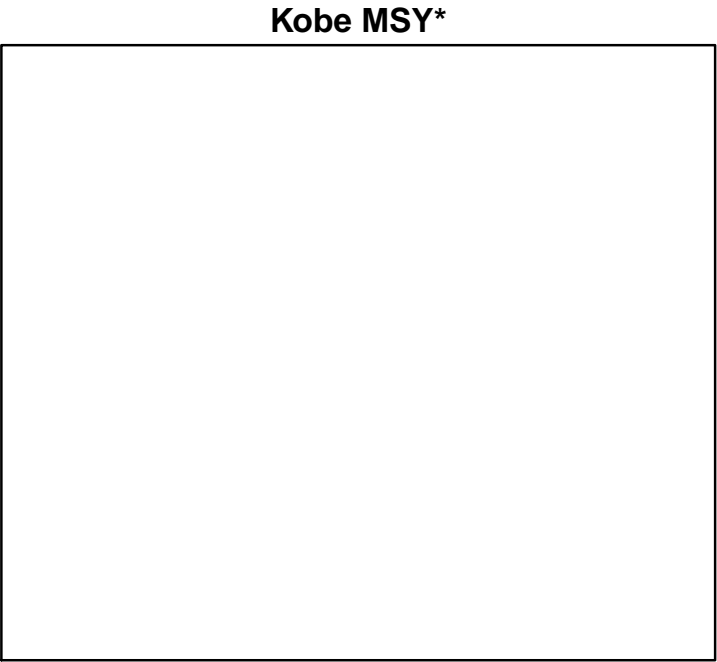
■ 1st listed time series ▲ 3rd listed time series — MORAT
 ● 2nd listed time series - - - MSY * No Data

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

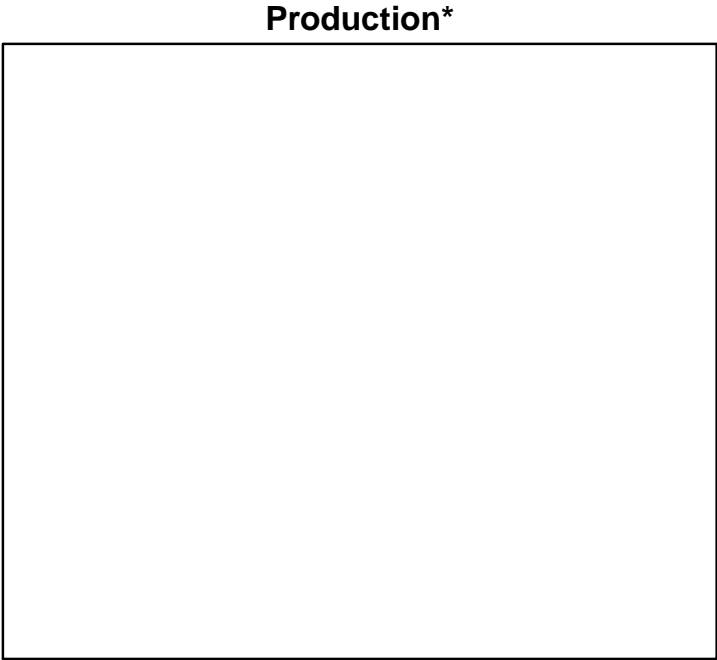
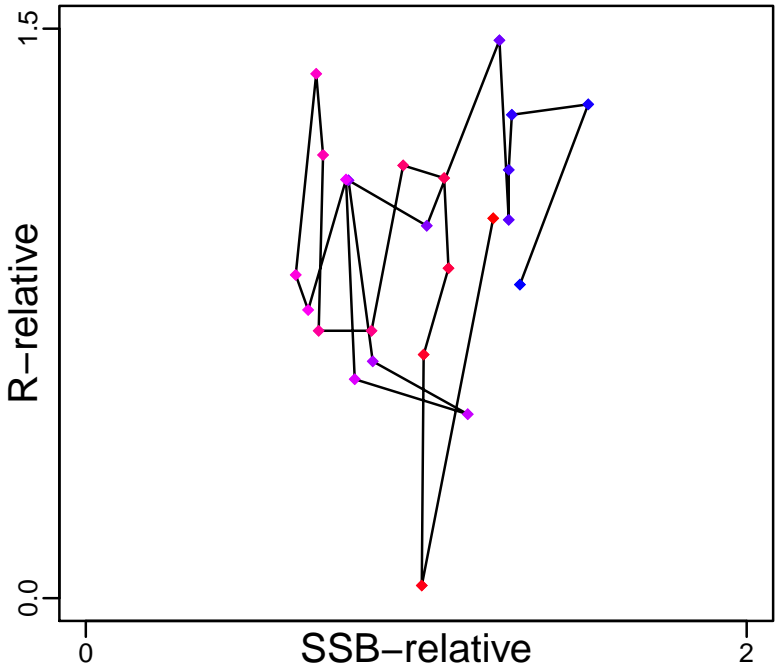
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIh-k-1990-2019-ICESIMP2021
Area	ICES 7h-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2019	0.865	-	-
TN	-	-	-	-	-
R	R-relative	2019	1.001	-	3
F	F-relative	2019	0.468	-	3 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	75		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Spawner Recruit (1990–2019–ICESIMP2021)



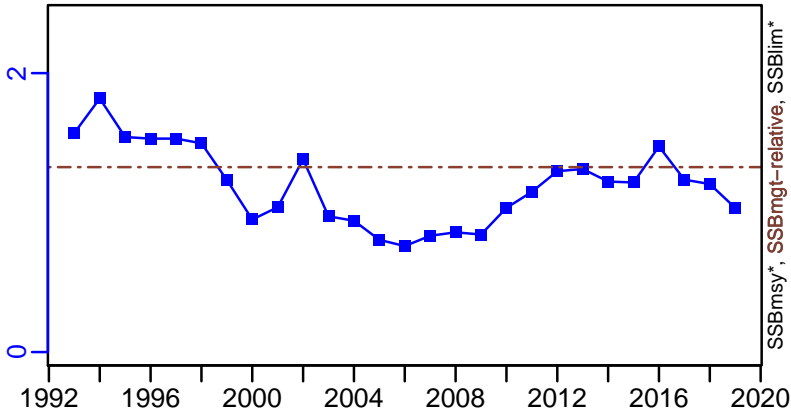
◆ Start Year ◆ End Year * No Data

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

TB*



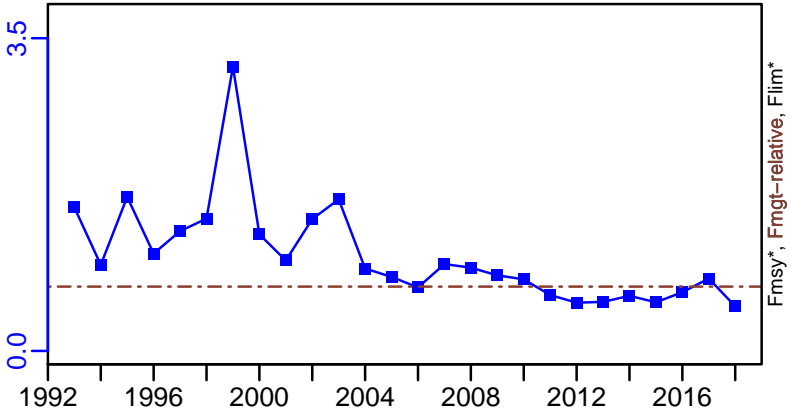
SSB-relative (1990-2019-ICESIMP2021)



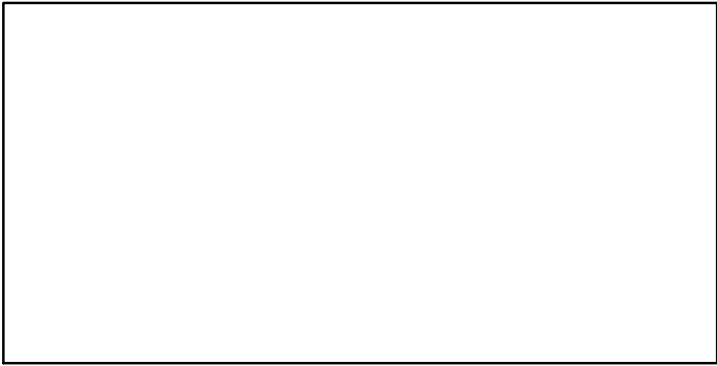
TN *



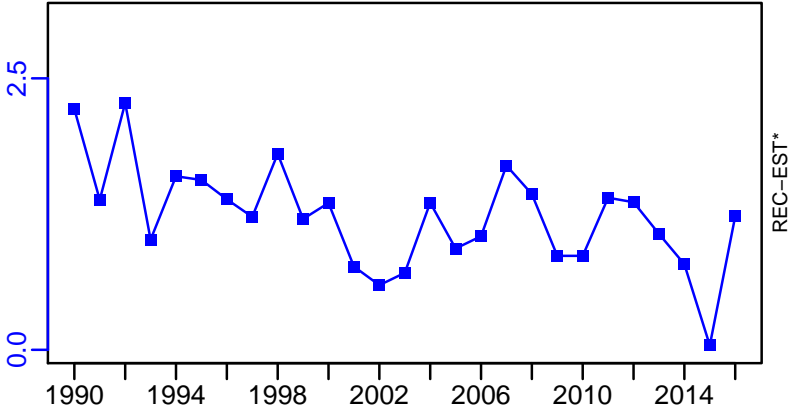
F-relative (1990-2019-ICESIMP2021)



ER*

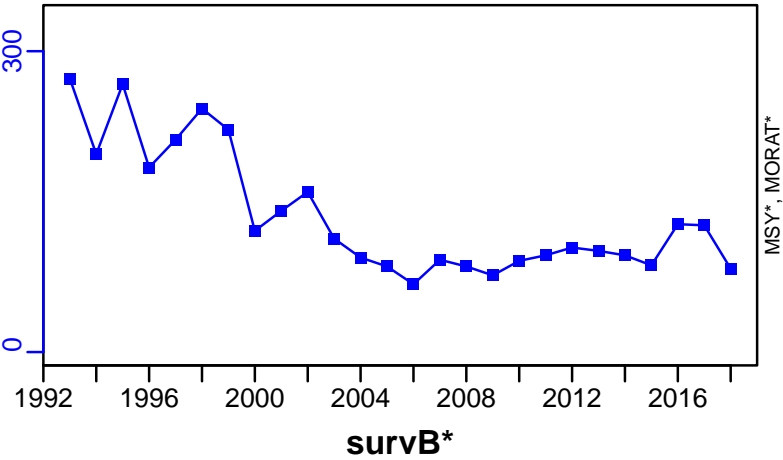


R-relative (1990-2019-ICESIMP2021)



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

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



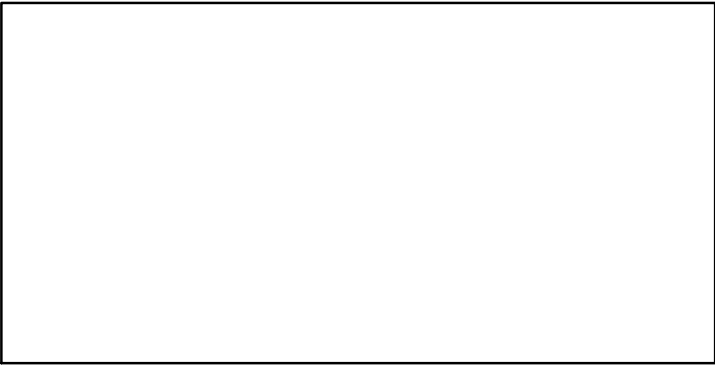
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Common sole ICES 8ab [SOLEVIIIab]

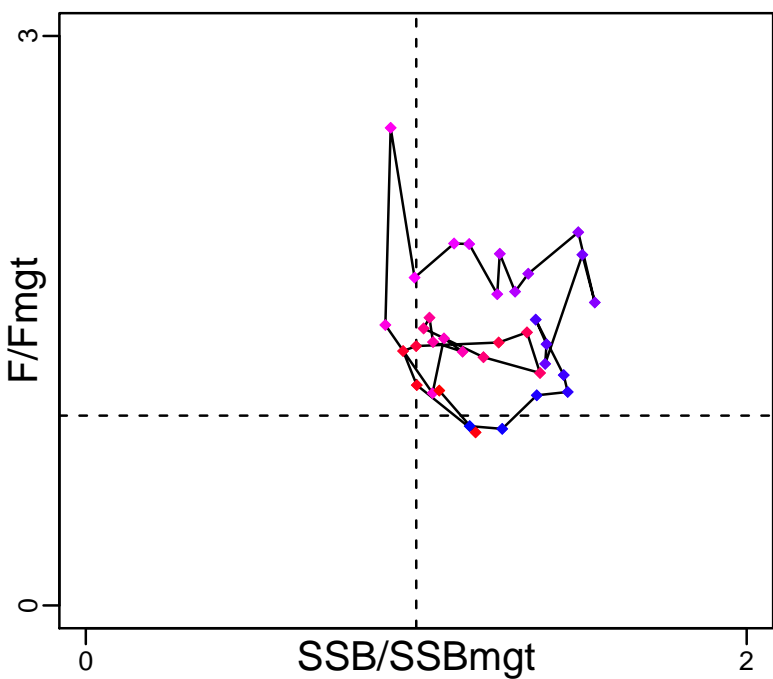
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVIIIab-1982-2019-ICESIMP2021
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2018, 2019, 2014, 2015, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	40,458
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.33
ERmsy	ERmsy-est-ratio	2019	0.352
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	10,600
Fmgt	Fmgt-1/yr	2019	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	7983
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	7600
Flim	Flim-1/yr	2017	0.6
ERlim	-	-	-

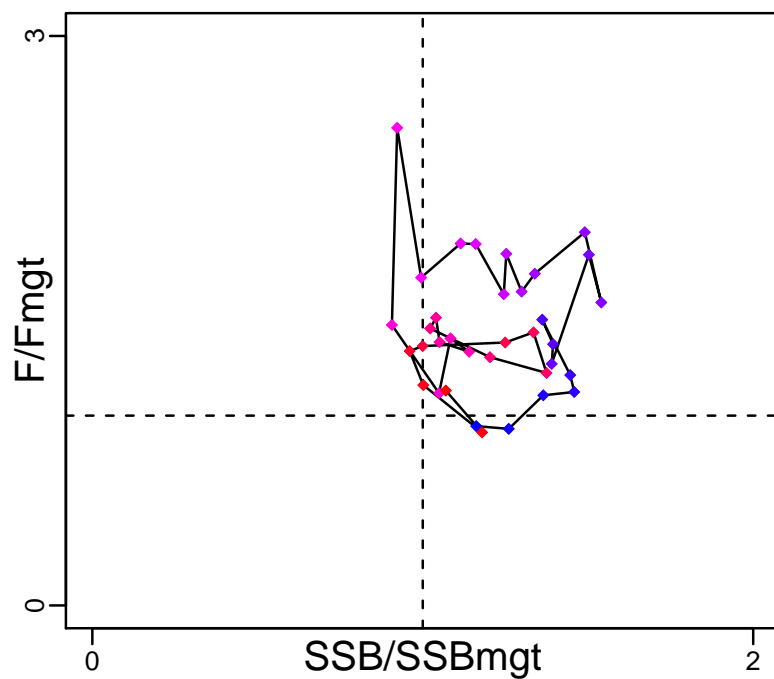
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	16,000	Both	-
SSB	SSB-MT	2019	12,653	-	-
TN	-	-	-	-	-
R	R-E00	2019	20,828,590	-	2
F	F-1/yr	2019	0.374	-	3 to 6
ER	ER-calc-ratio	2019	0.224	-	-
TC	TC-MT	2018	3300		
TL	TL-MT	2019	3469		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.329		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.103		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.637		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.194		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.132		
ER/ERmgt	-	-	-		

Common sole ICES 8ab [SOLEVIIIab]

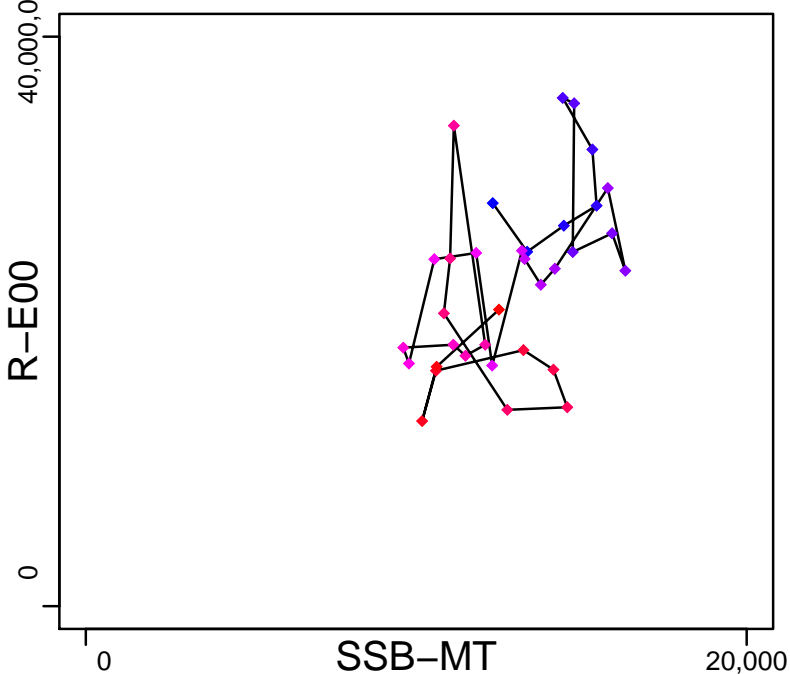
Kobe MSYpref (1982–2019–ICESIMP2021)



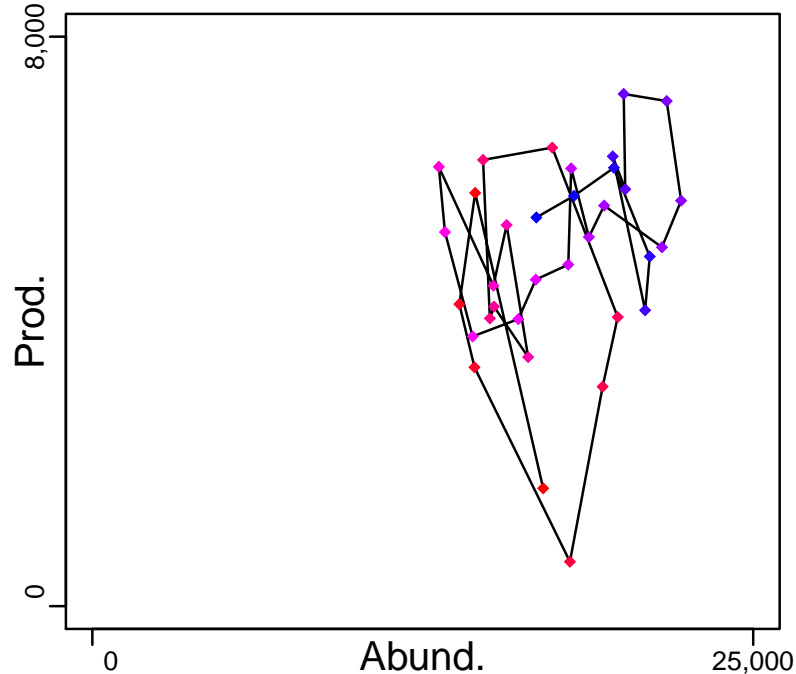
Kobe MGTpref (1982–2019–ICESIMP2021)



Spawner Recruit (1982–2019–ICESIMP2021)



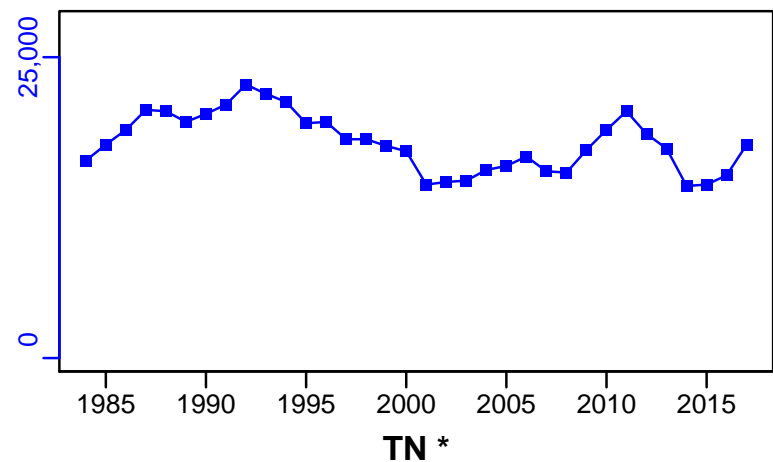
Production (1982–2019–ICESIMP2021)



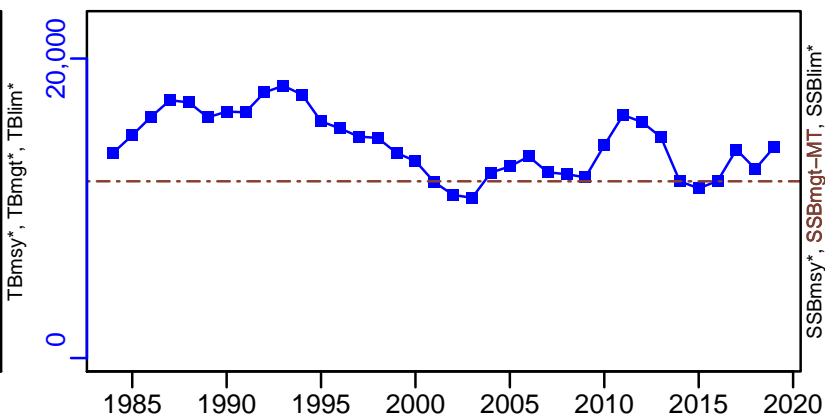
◆ Start Year ◆ End Year * No Data

Common sole ICES 8ab [SOLEVIllab]

TB-MT (1982–2018–ICESIMP2018)



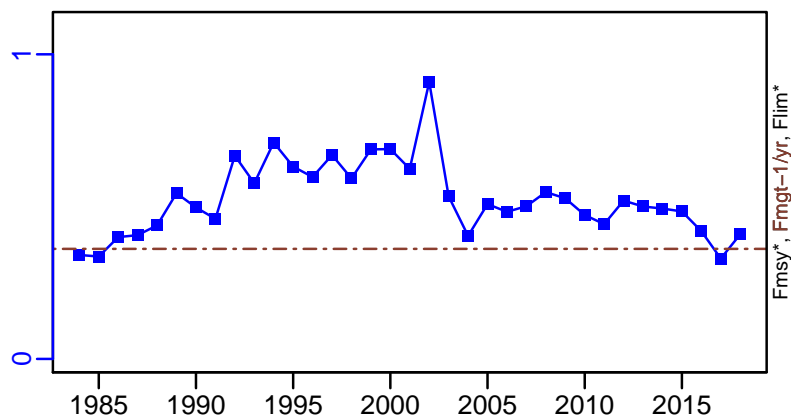
SSB-MT (1982–2019–ICESIMP2021)



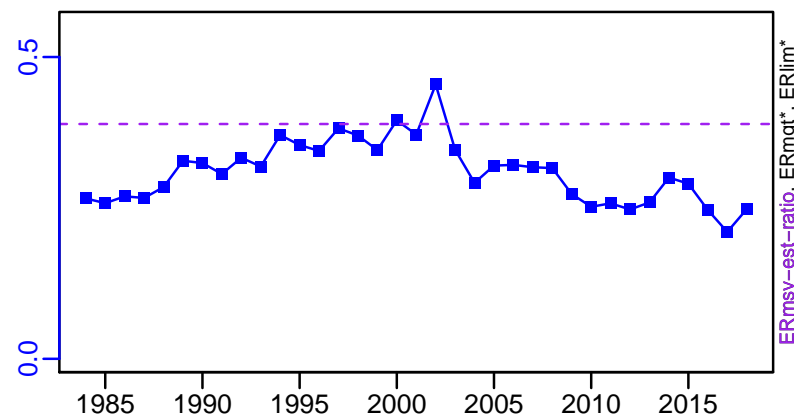
TN *



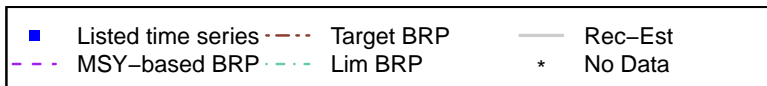
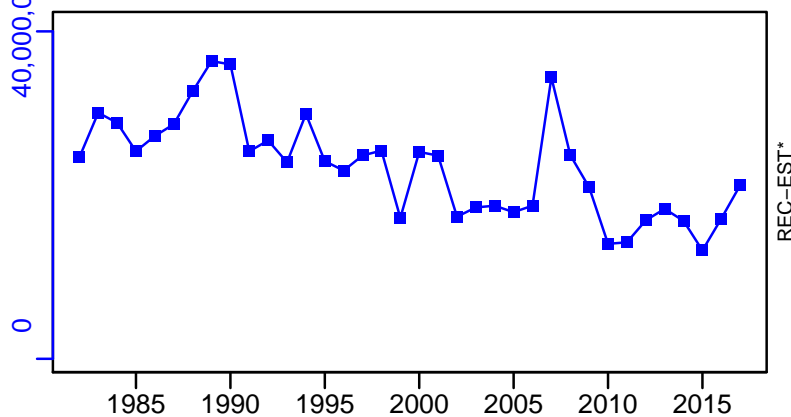
F-1/yr (1982–2019–ICESIMP2021)



ER-calc-ratio (1982–2019–ICESIMP2021)



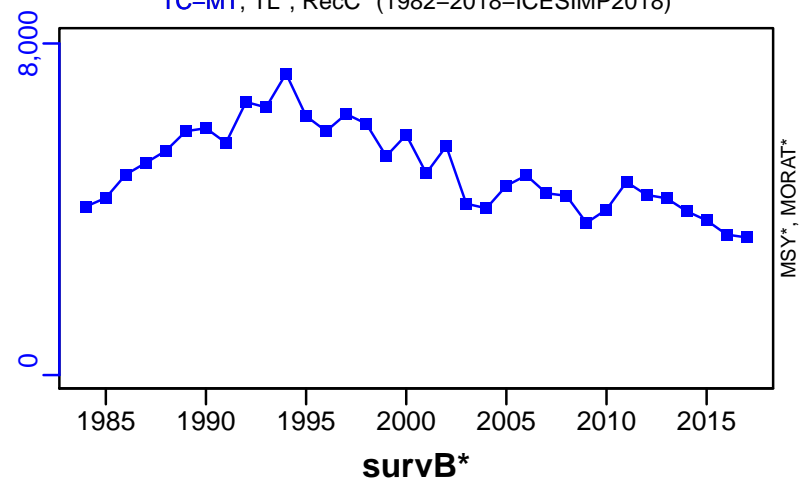
R-E00 (1982–2019–ICESIMP2021)



Common sole ICES 8ab [SOLEVIllab]

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

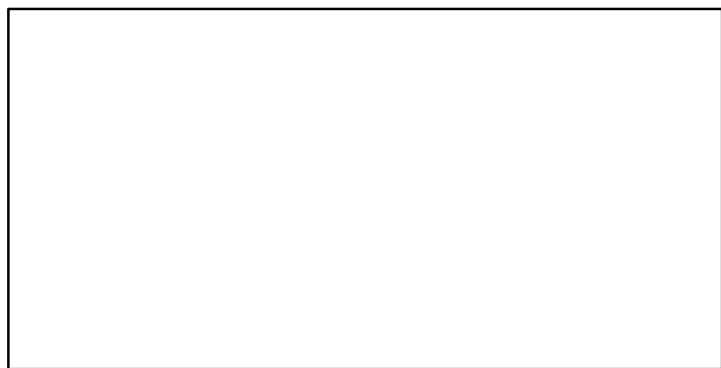
TAC*, Cpair*, Cadv*



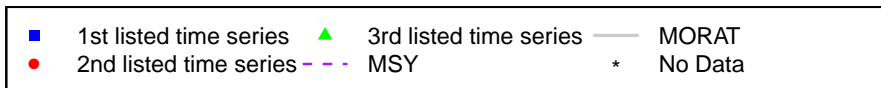
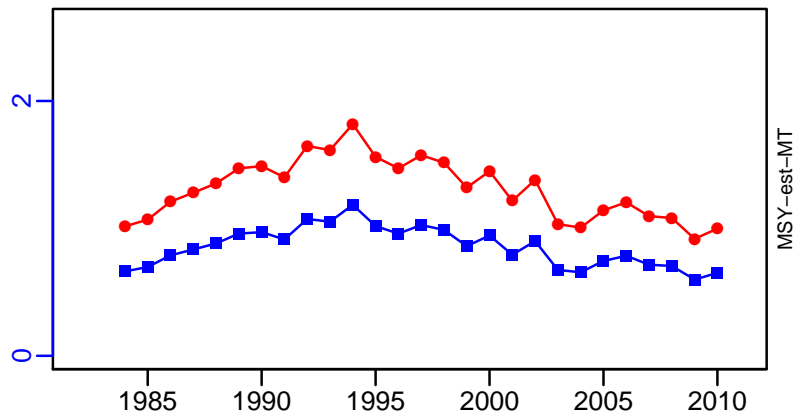
CPUE*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1982-2011-NEUBAUER)



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

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

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

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

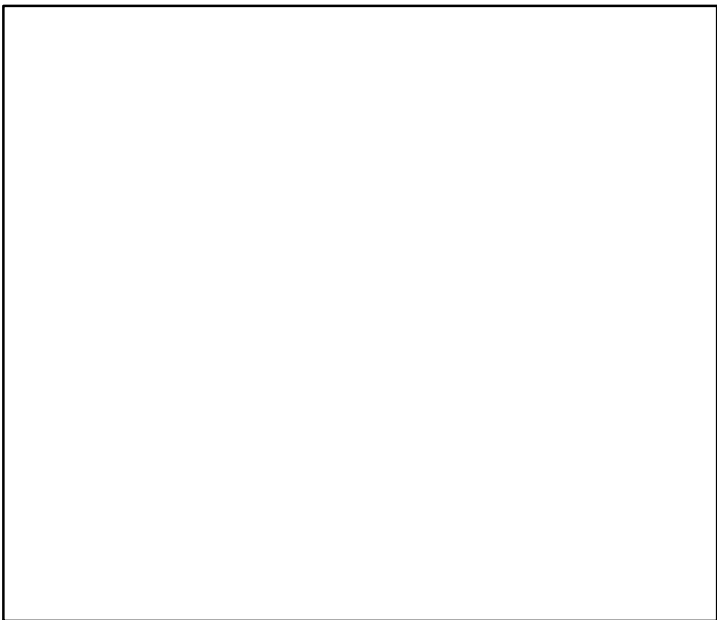
Kobe MSY*



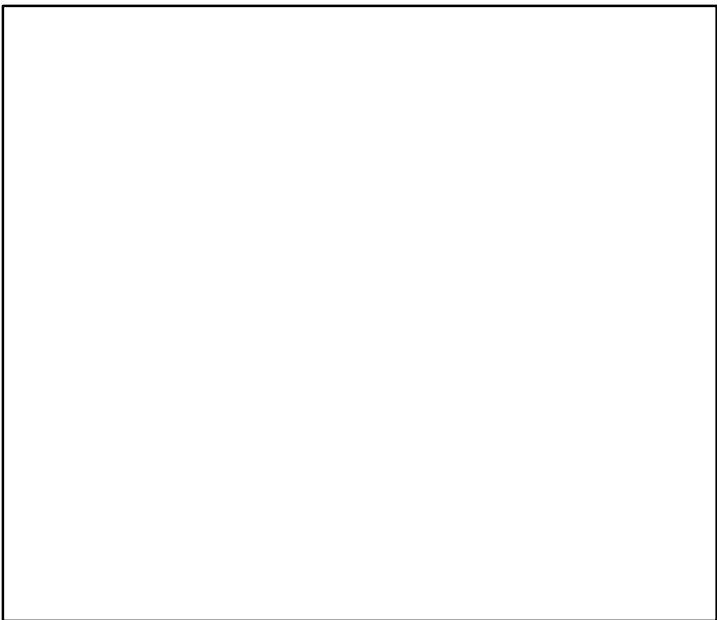
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



TN *



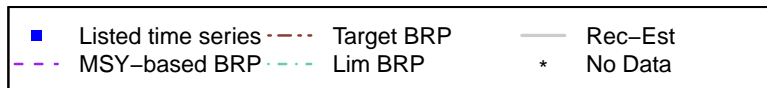
F*



ER*



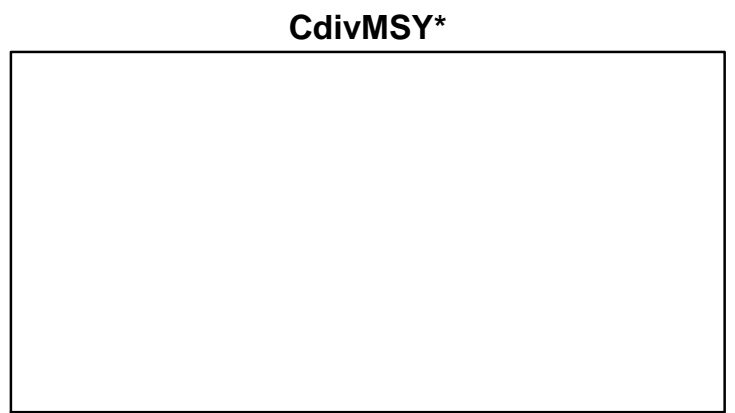
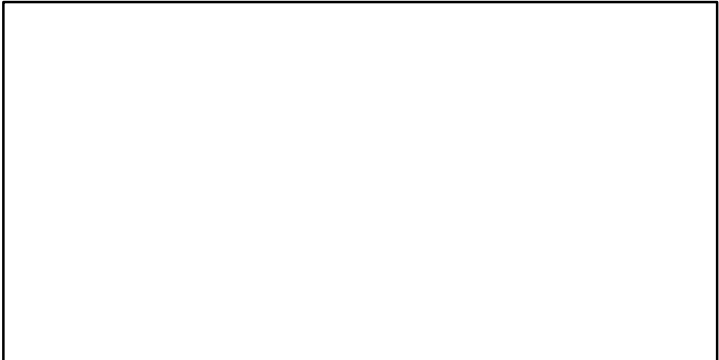
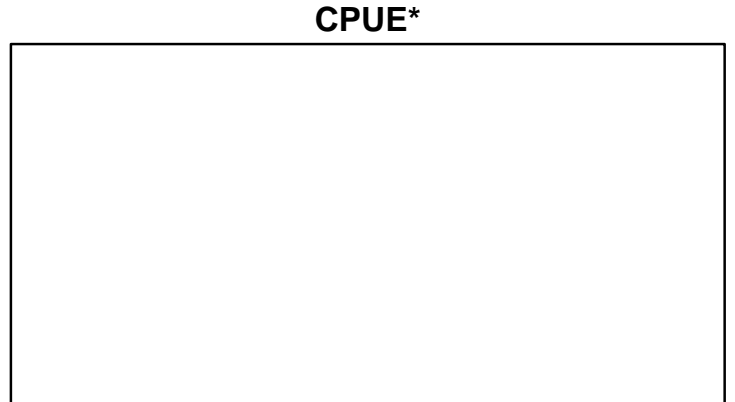
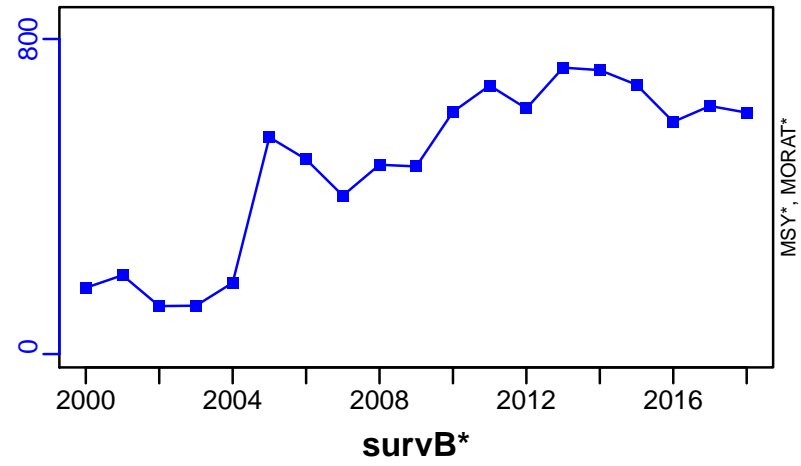
Recruits*



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

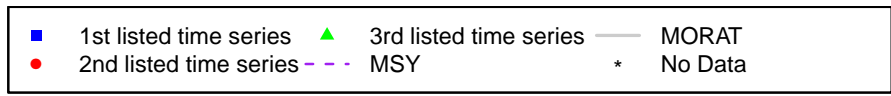
TL–MT, TC*, RecC* (2000–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Sprat Baltic Areas 22-32 [SPRAT22-32]

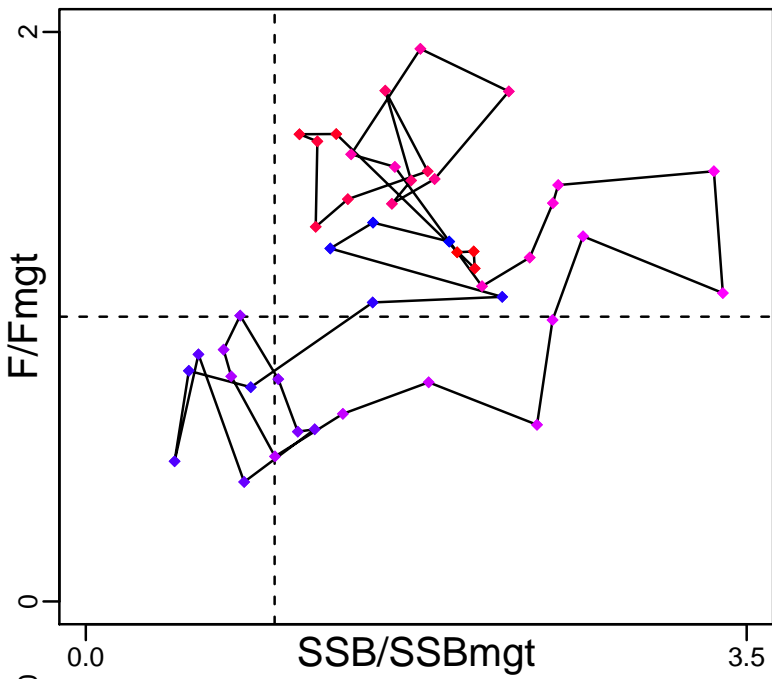
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	WGBFAS-SPRAT22-32-1973-2019-ICESIMP2021
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	1,478,431
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.26
ERmsy	ERmsy-est-ratio	2019	0.127
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	570,000
Fmgt	Fmgt-1/yr	2019	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	252,295
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	410,000
Flim	Flim-1/yr	2018	0.39
ERlim	-	-	-

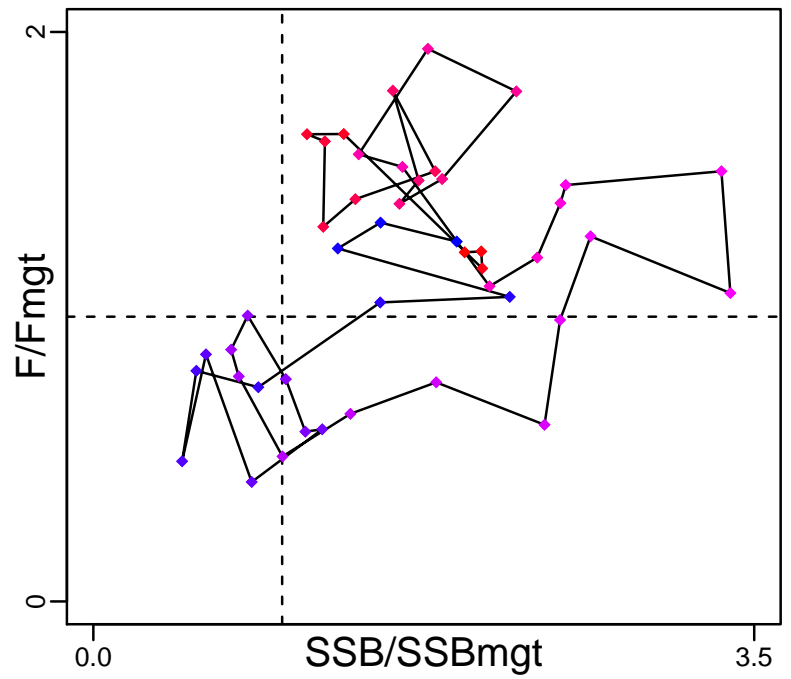
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	1,664,000	-	-
SSB	SSB-MT	2019	1,103,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	59,567,000	-	1
F	F-1/yr	2019	0.319	-	3 to 5
ER	ER-calc-ratio	2019	0.176	-	-
TC	TC-MT	2019	308,827		
TL	TL-MT	2019	308,827		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	1.015		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.065		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.387		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.935		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.226		
ER/ERmgt	-	-	-		

Sprat Baltic Areas 22–32 [SPRAT22–32]

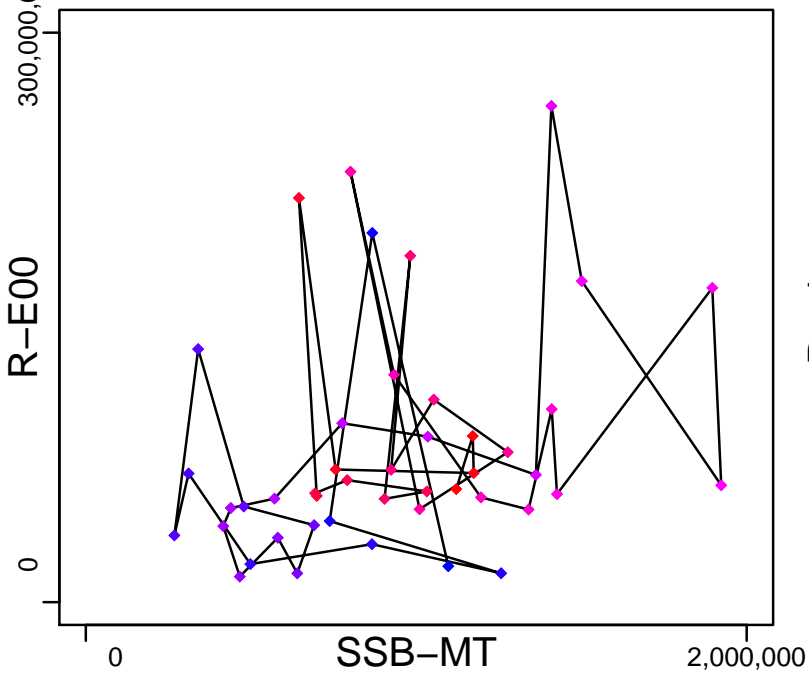
Kobe MSYpref (1973–2019–ICESIMP2021)



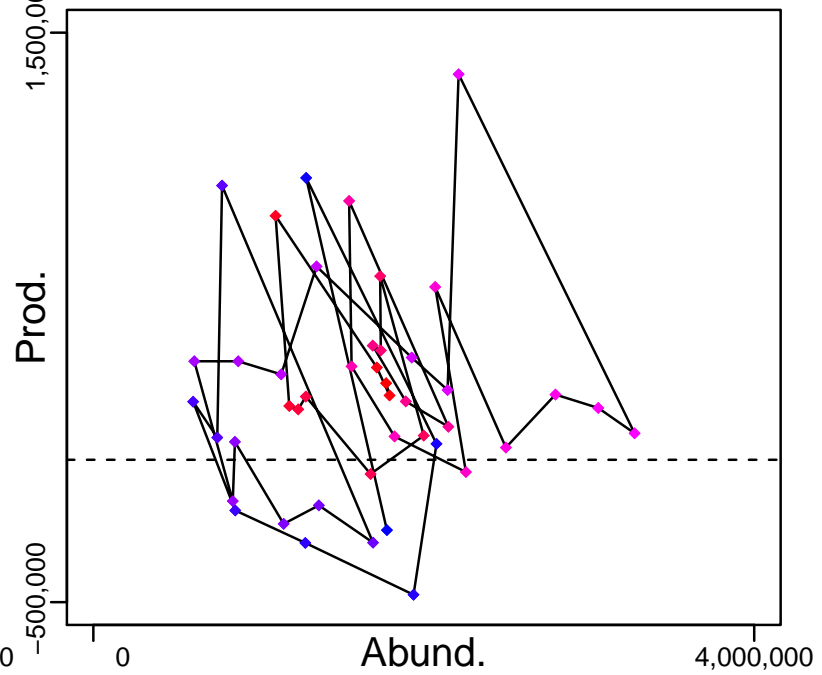
Kobe MGTpref (1973–2019–ICESIMP2021)



Spawner Recruit (1973–2019–ICESIMP2021)



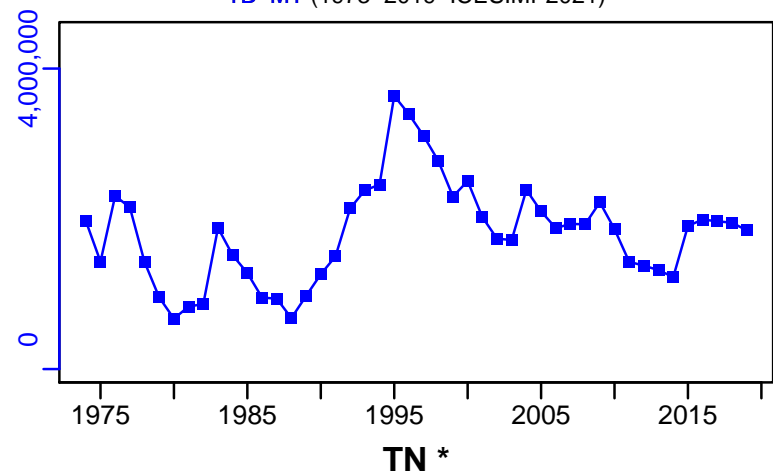
Production (1973–2019–ICESIMP2021)



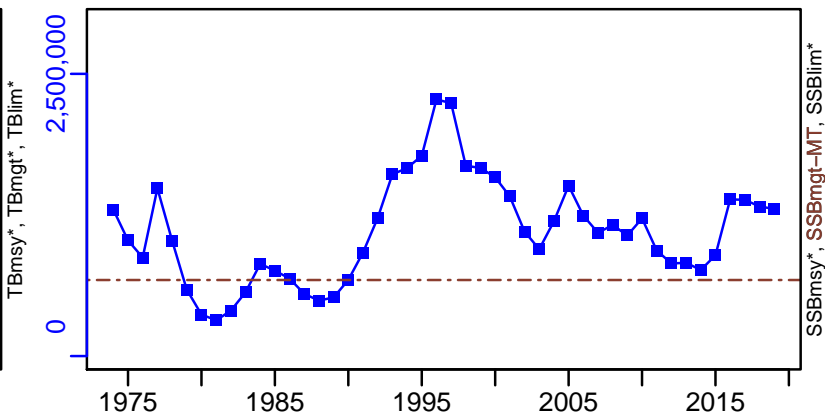
◆ Start Year ◆ End Year * No Data

Sprat Baltic Areas 22–32 [SPRAT22–32]

TB-MT (1973–2019–ICESIMP2021)



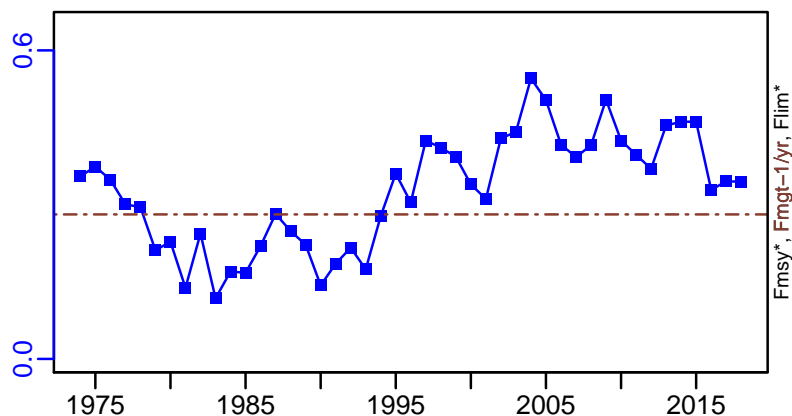
SSB-MT (1973–2019–ICESIMP2021)



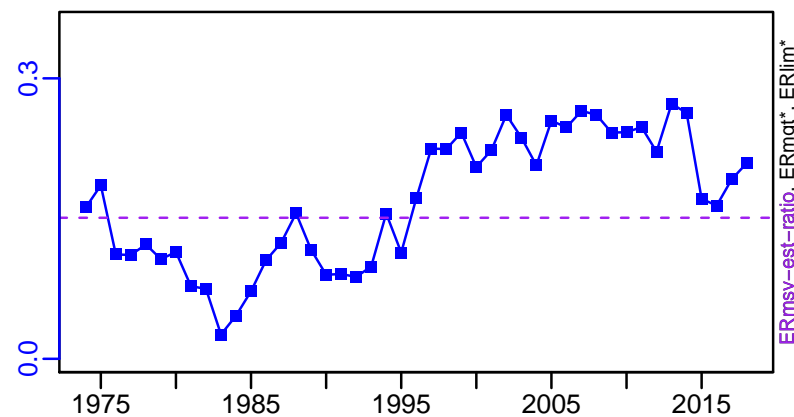
TN *



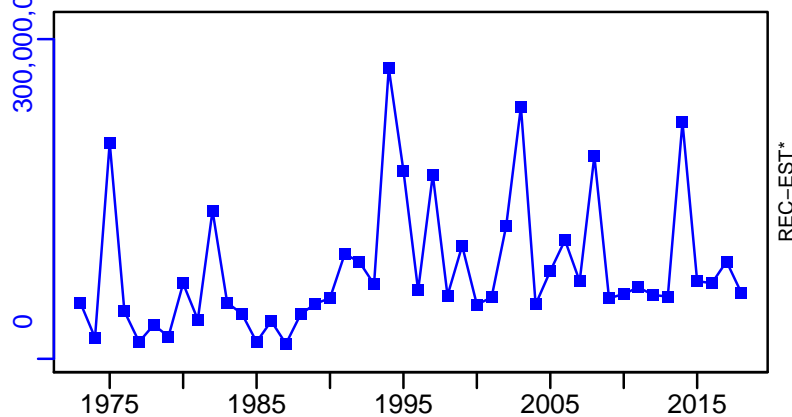
F-1/yr (1973–2019–ICESIMP2021)



ER-calc-ratio (1973–2019–ICESIMP2021)

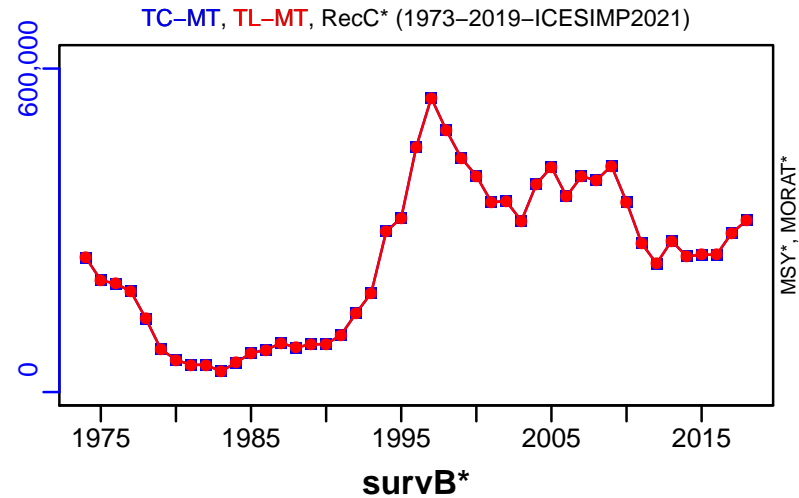


R-E00 (1973–2019–ICESIMP2021)



Sprat Baltic Areas 22–32 [SPRAT22–32]

TC–MT, TL–MT, RecC* (1973–2019–ICESIMP2021)



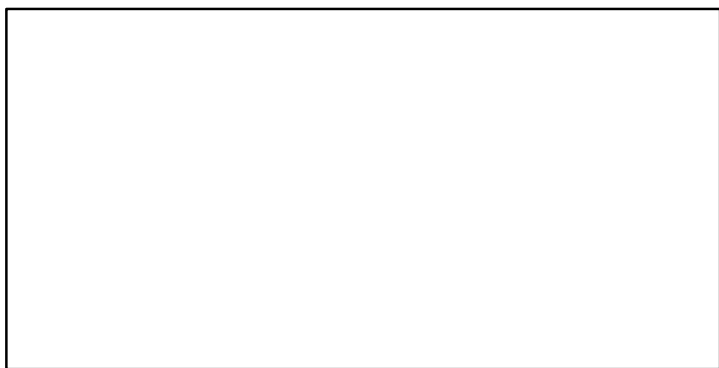
TAC*, Cpair*, Cadv*



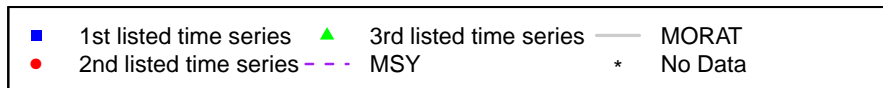
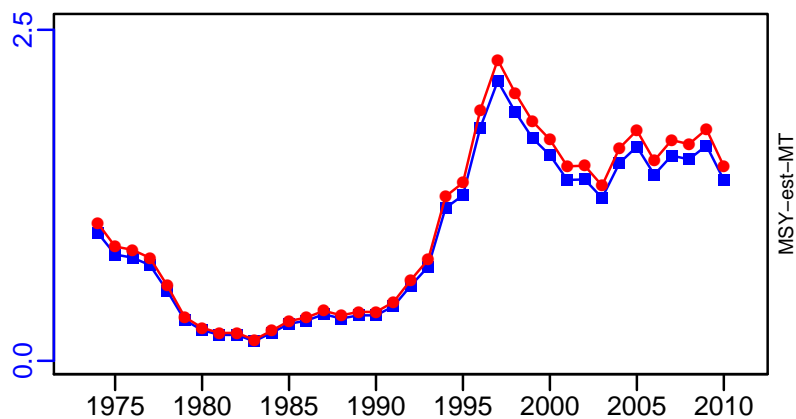
CPUE*



EFFORT*



TL–MT/MSY–est–MT, CdivMEANC–ratio, (1973–2011–NEUBAUER)



Sprat ICES 3a-4 [SPRATIIIa-IV]

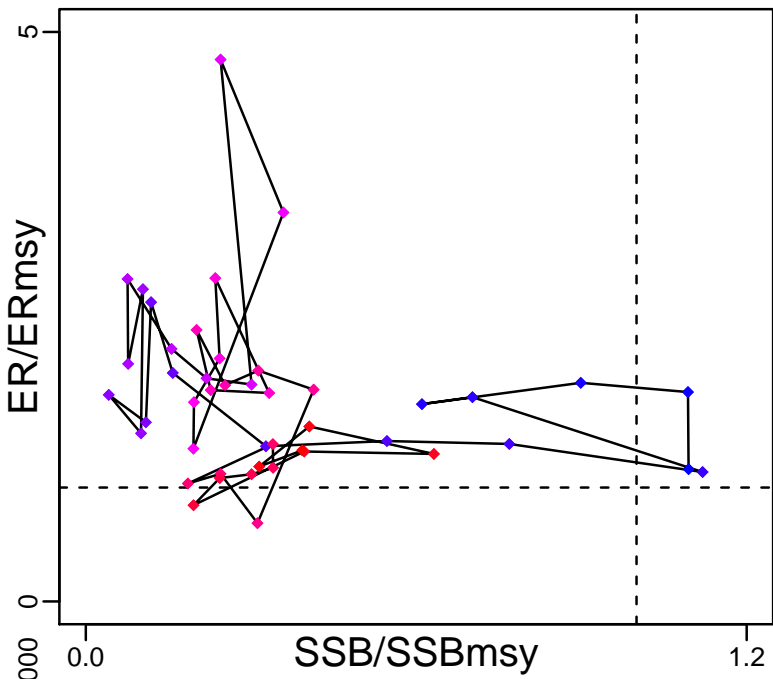
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATIIIa-IV-1974-2019-ICESIMP2021
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2019	553,343
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2019	0.356
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2019	364,373
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

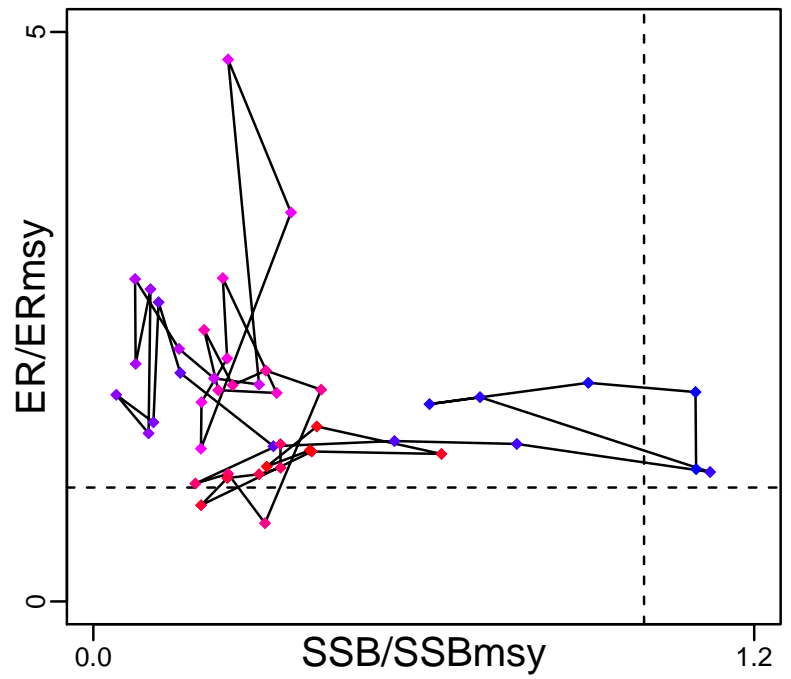
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	248,824	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.2695×10^{11}	-	0
F	F-1/yr	2019	1.4	-	1 to 2
ER	ER-calc-ratio	2019	0.473	-	-
TC	TC-MT	2019	190,052		
TL	TL-MT	2019	190,052		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2019	0.45		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.327		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sprat ICES 3a-4 [SPRATIIIa-IV]

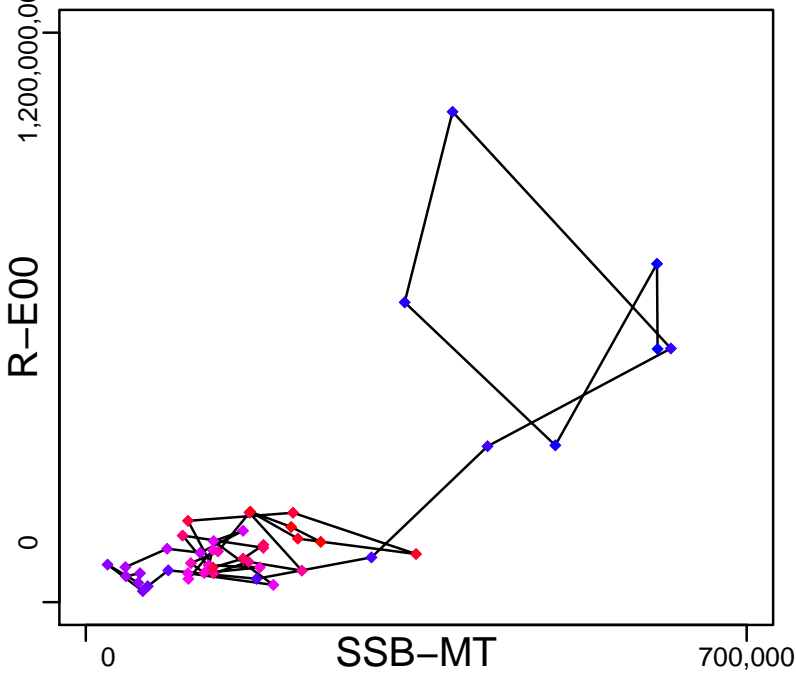
Kobe MSYpref (1974–2019–ICESIMP2021)



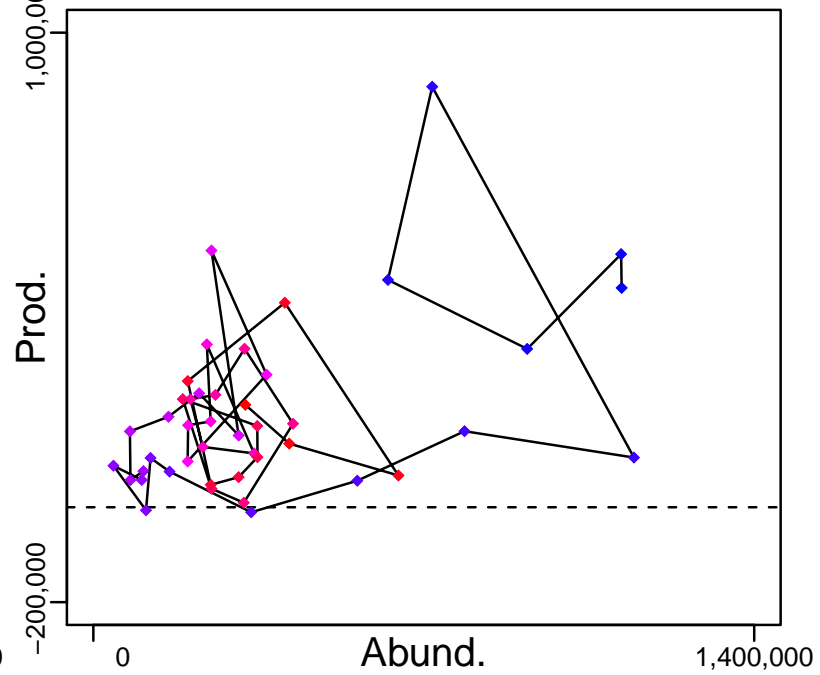
Kobe MGTpref (1974–2019–ICESIMP2021)



Spawner Recruit (1974–2019–ICESIMP2021)



Production (1974–2019–ICESIMP2021)



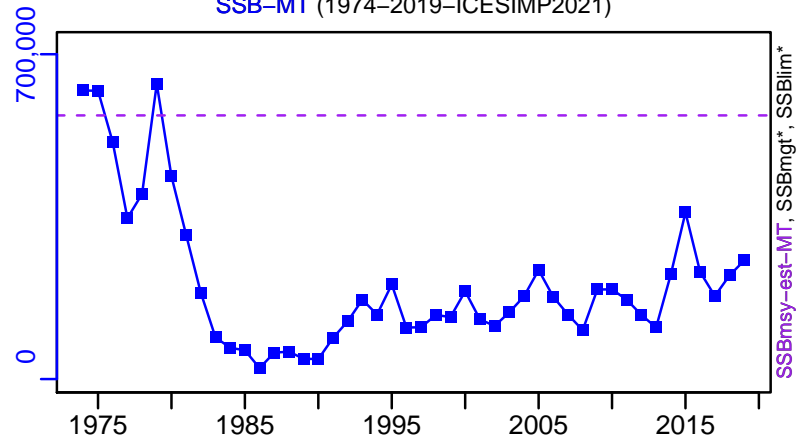
◆ Start Year ◆ End Year * No Data

Sprat ICES 3a-4 [SPRATIIIa-IV]

TB*



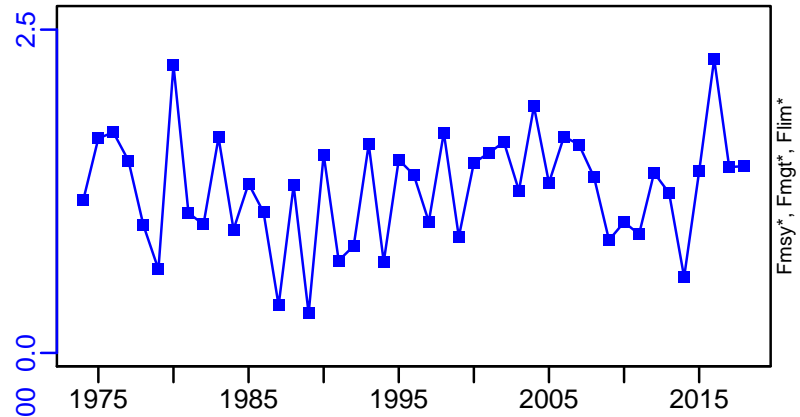
SSB-MT (1974-2019-ICESIMP2021)



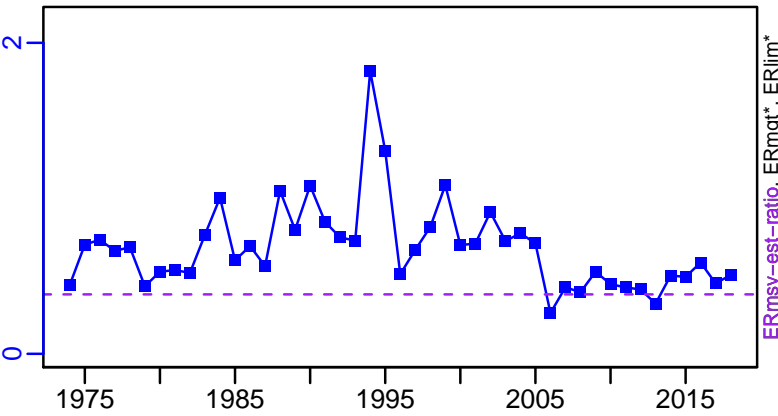
TN *



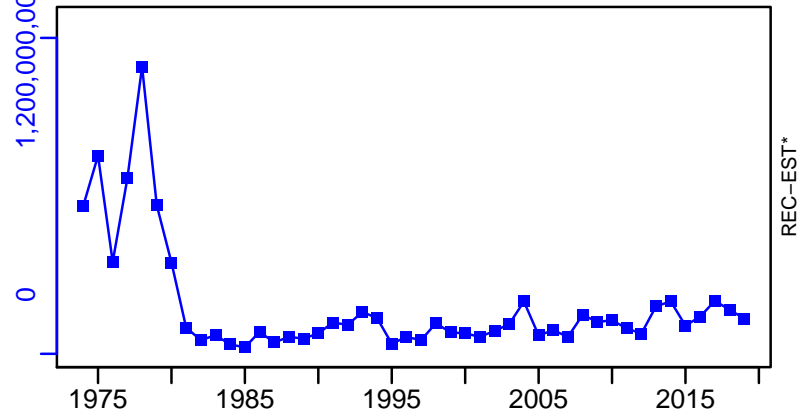
F-1/yr (1974-2019-ICESIMP2021)



ER-calc-ratio (1974-2019-ICESIMP2021)

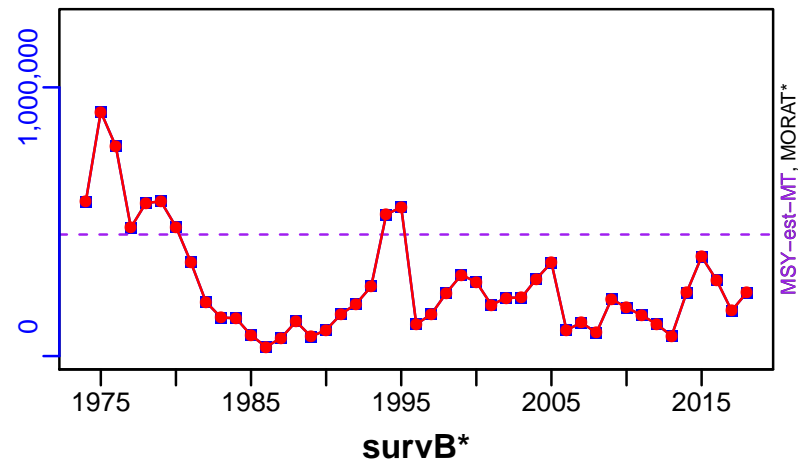


R-E00 (1974-2019-ICESIMP2021)



Sprat ICES 3a-4 [SPRATIIIa-IV]

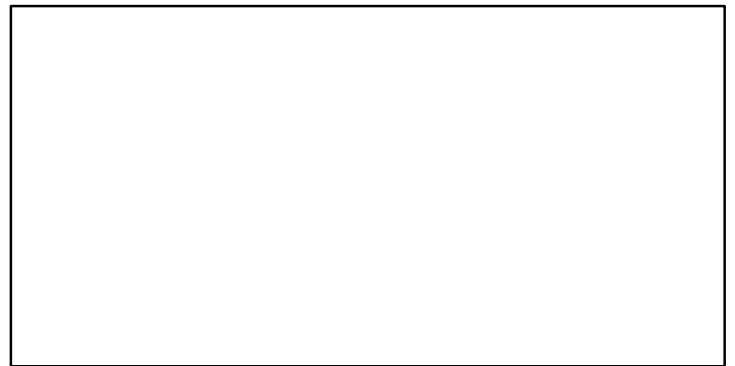
TC-MT, TL-MT, RecC* (1974-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



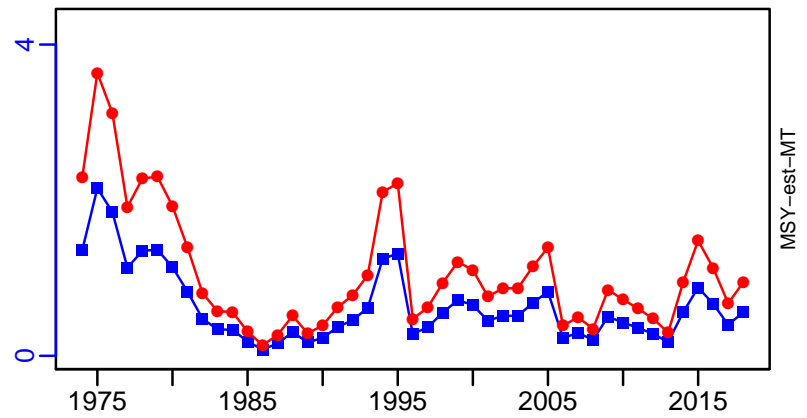
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1974-2019-ICESIMP2021)



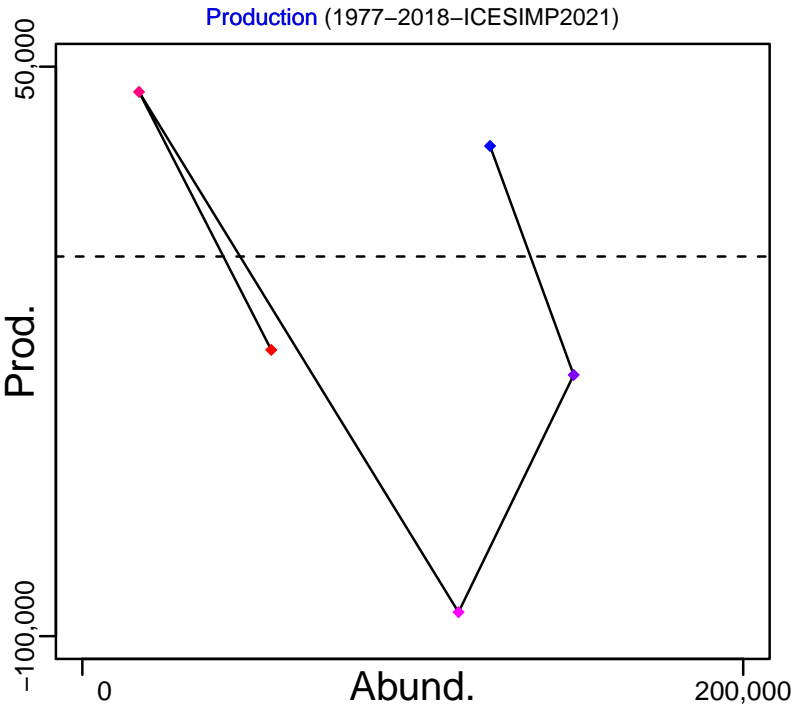
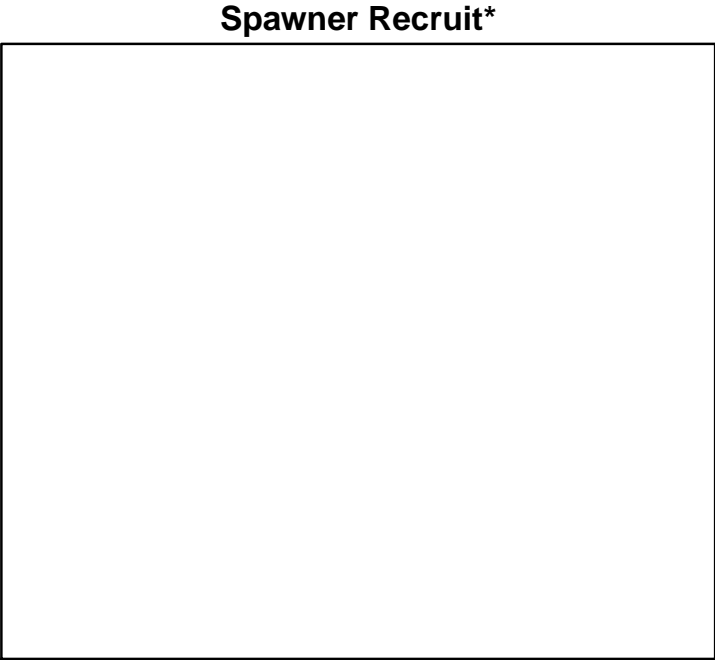
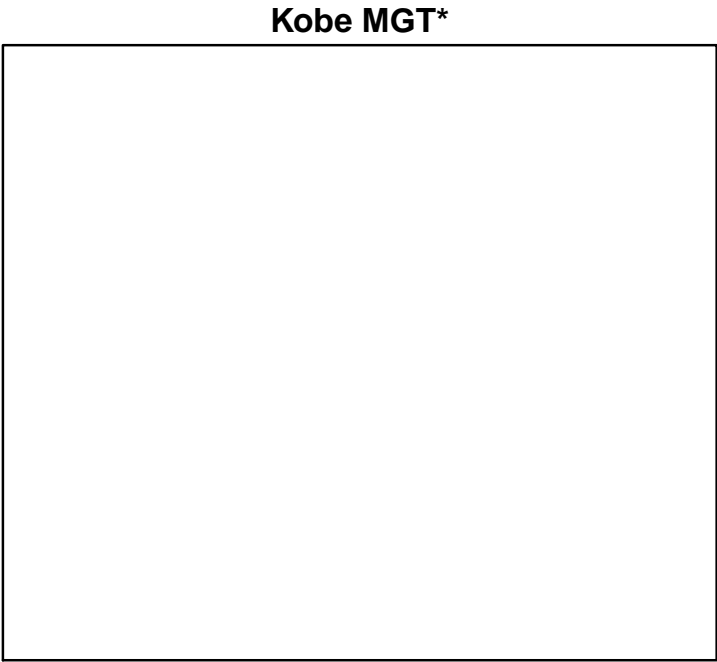
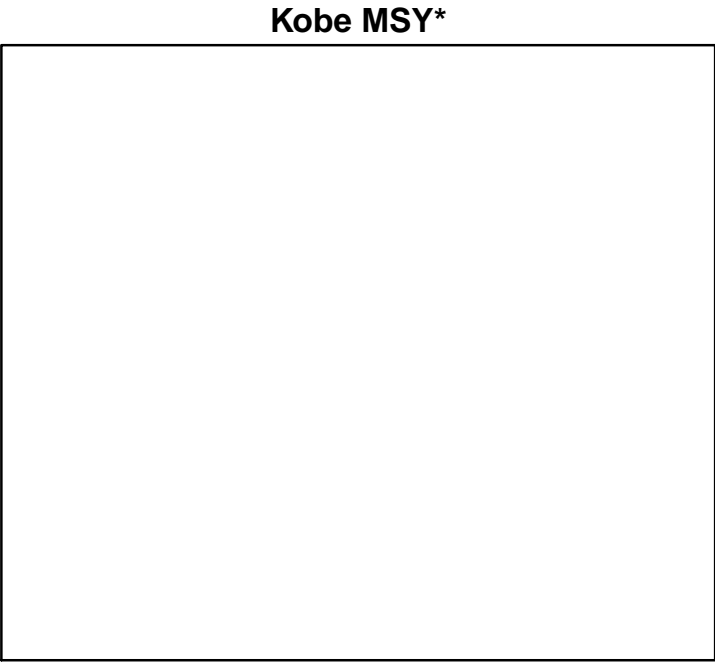
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Sprat ICES 7de [SPRATVIIde]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVIIde-1977-2018-ICESIMP2021
Area	ICES 7de
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2018, 2016, 2016, 2017

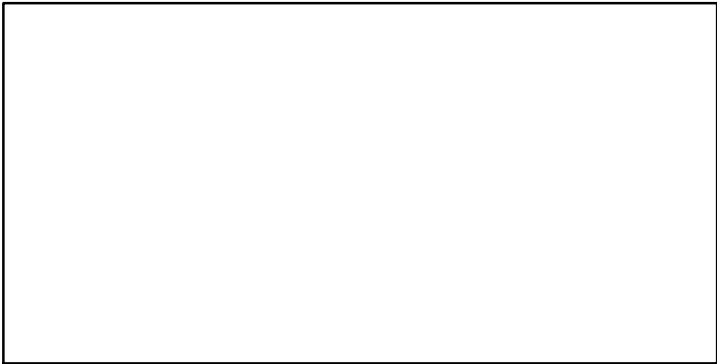
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	17,091	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2018	0.11	-	-
ER	ER-calc-ratio	2018	0.075	-	-
TC	-	-	-		
TL	TL-MT	2018	2252		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

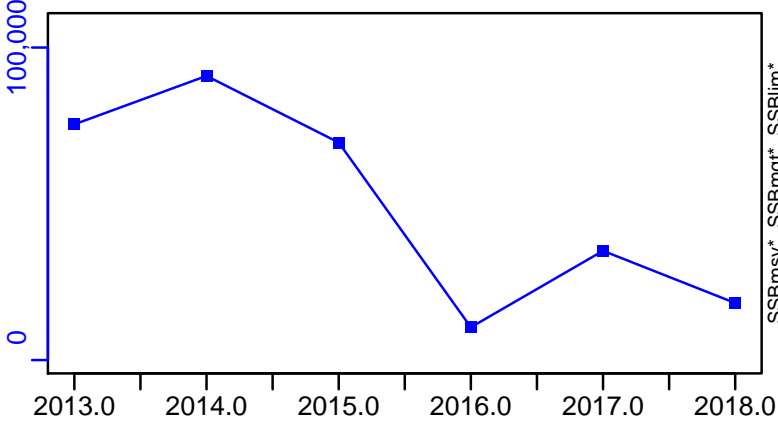


◆ Start Year ◆ End Year * No Data

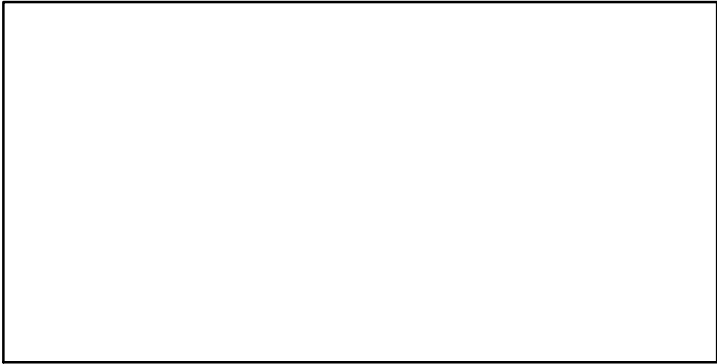
TB*



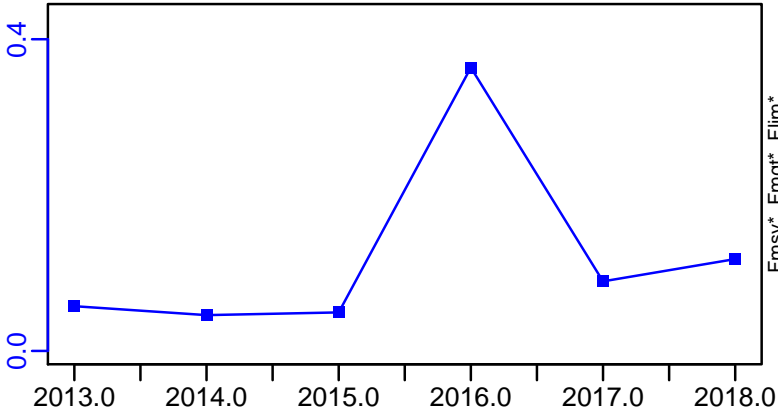
SSB-MT (1977–2018–ICESIMP2021)



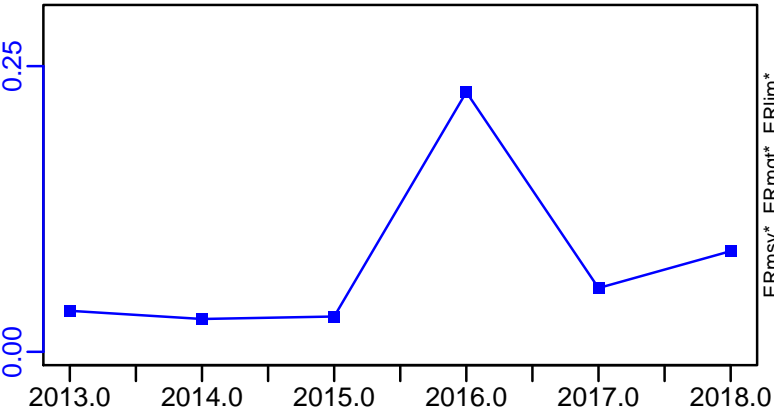
TN *



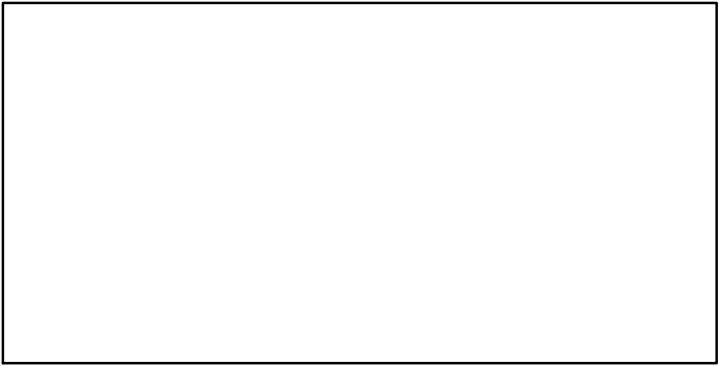
F-1/yr (1977–2018–ICESIMP2021)



ER-calc-ratio (1977–2018–ICESIMP2021)

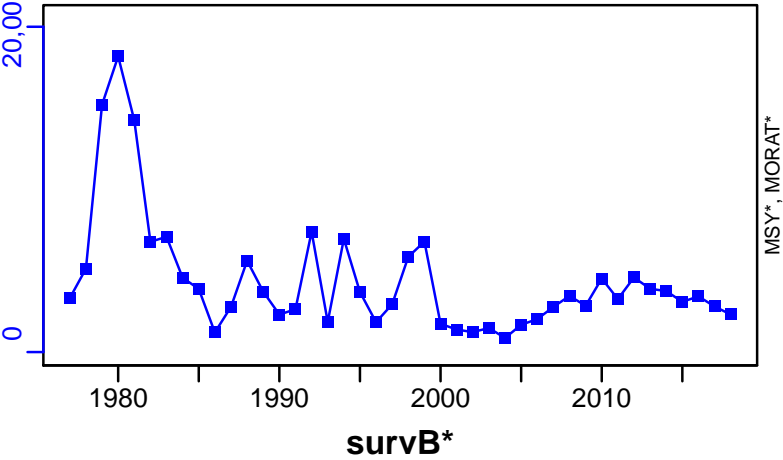


Recruits*



Sprat ICES 7de [SPRATVIlde]

TL-MT, TC*, RecC* (1977-2018-ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sprat ICES 6-7abcfghijk [SPRATVI-VIIabcfghijk]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVI-VIIabcfghijk-1985-2018-ICESIMP2021
Area	ICES 6-7abcfghijk
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2016, 2015, 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	3590		
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*



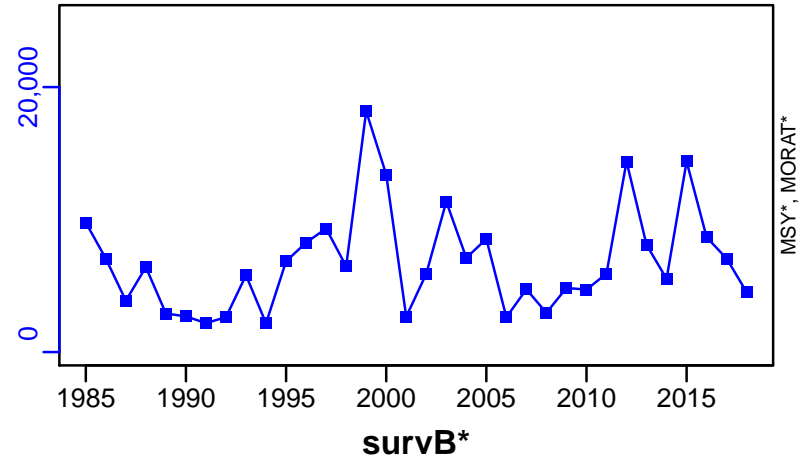
Recruits*



Sprat ICES 6–7abcfghijk [SPRATVI–VIIabcfghijk]

TL–MT, TC*, RecC* (1985–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



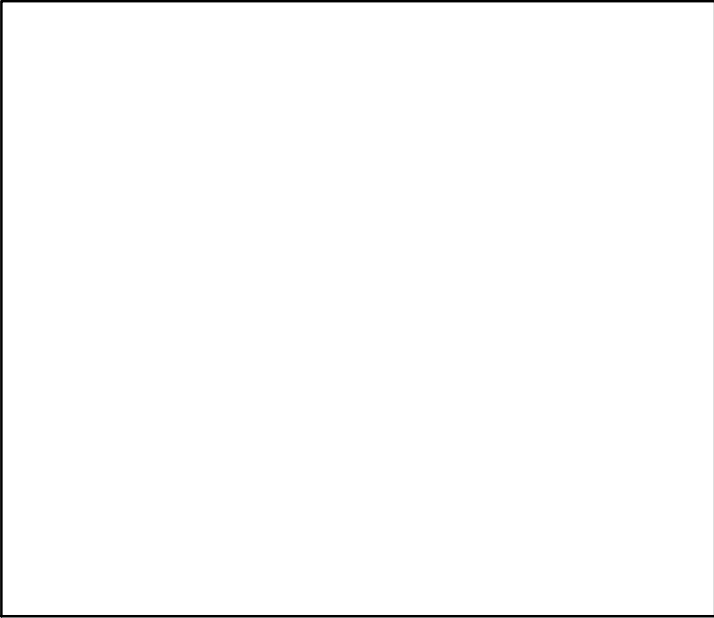
Spotted ray ICES 3a-4-7d [SPRAYIIIa-IV-VIId]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIIIa-IV-VIId-1993-2018-ICESIMP2021
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

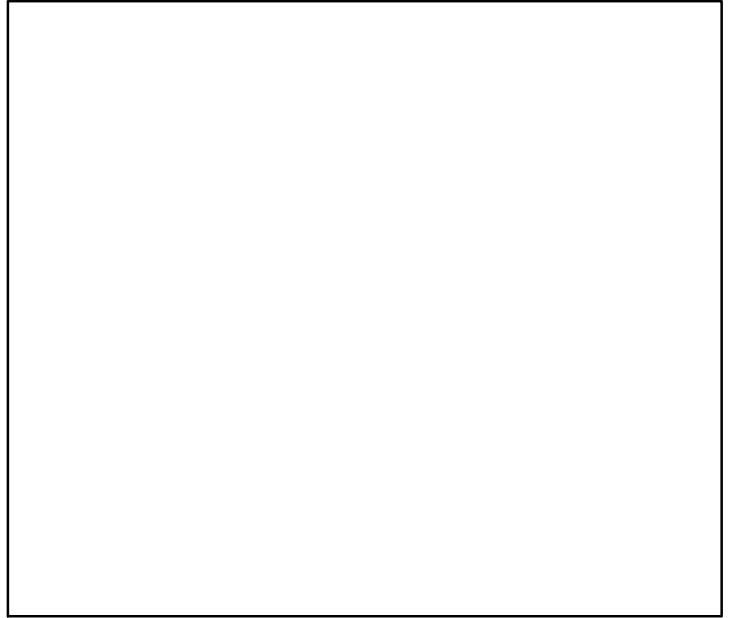
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	2.05	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	355		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

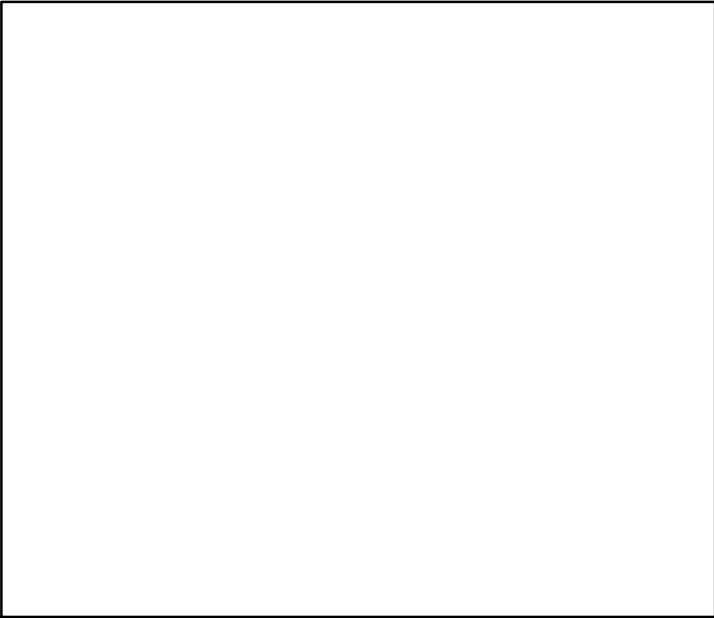
Kobe MSY*



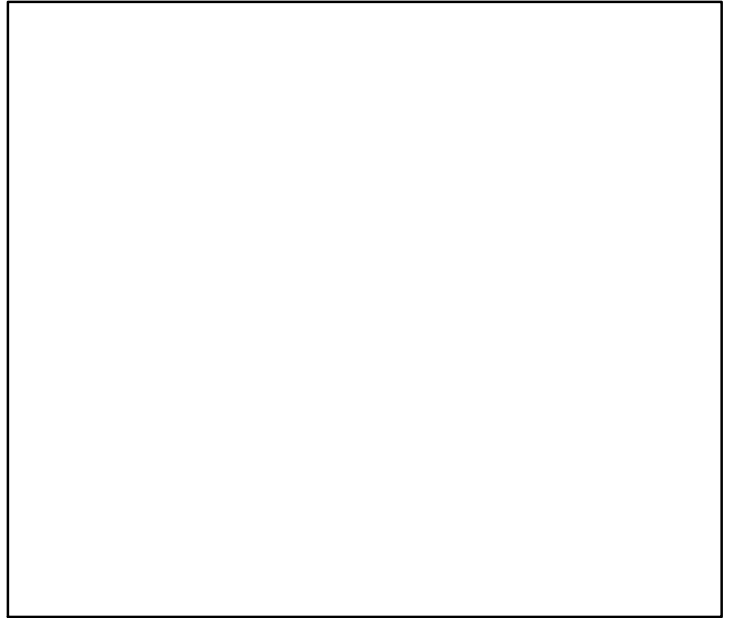
Kobe MGT*



Spawner Recruit*



Production*



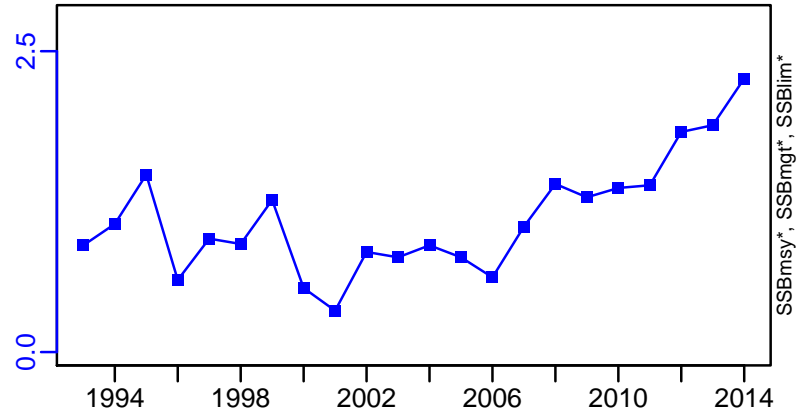
◆ Start Year ◆ End Year * No Data

Spotted ray ICES 3a–4–7d [SPRAYIIIa–IV–VIIId]

TB*



SSB-index (1993–2014–ICESIMP2018)



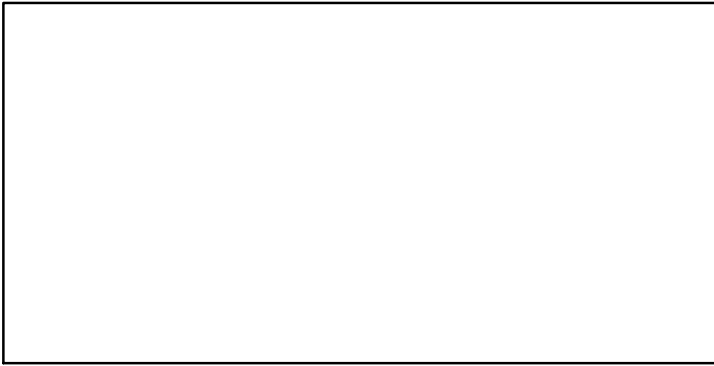
TN *



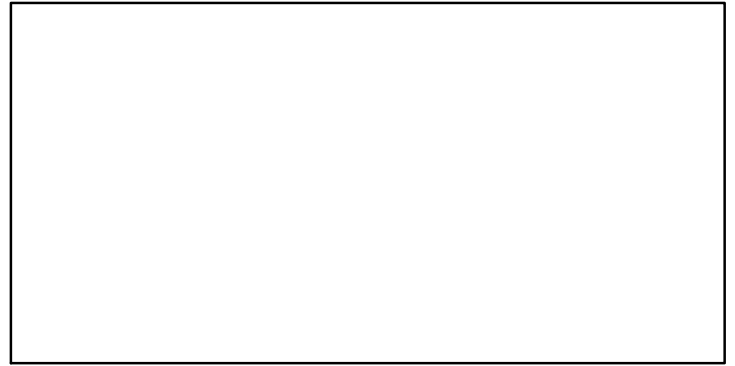
F*



ER*

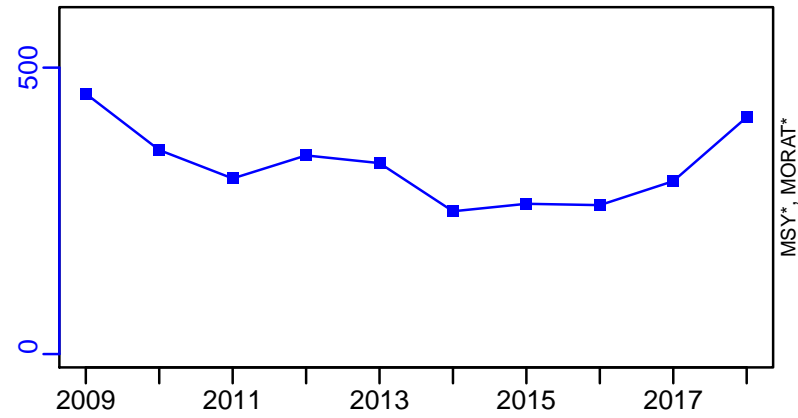


Recruits*



Spotted ray ICES 3a–4–7d [SPRAYIIIa–IV–VIIId]

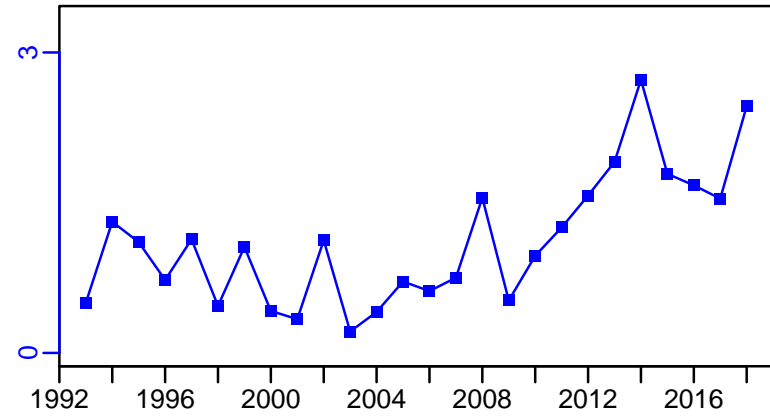
TL–MT, TC*, RecC* (1993–2018–ICESIMP2021)



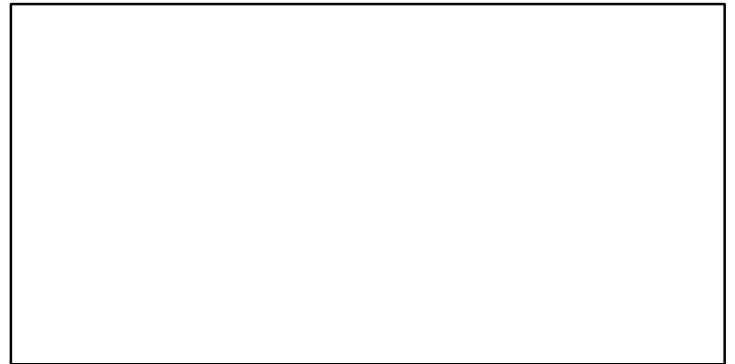
TAC*, Cpair*, Cadv*



survB–index (1993–2018–ICESIMP2021)



CPUE*



EFFORT*



CdivMSY*



Spotted ray Portuguese Waters -East [SPRAYIXa]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIXa-2003-2015-ICESIMP2018
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	2.35	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	68		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



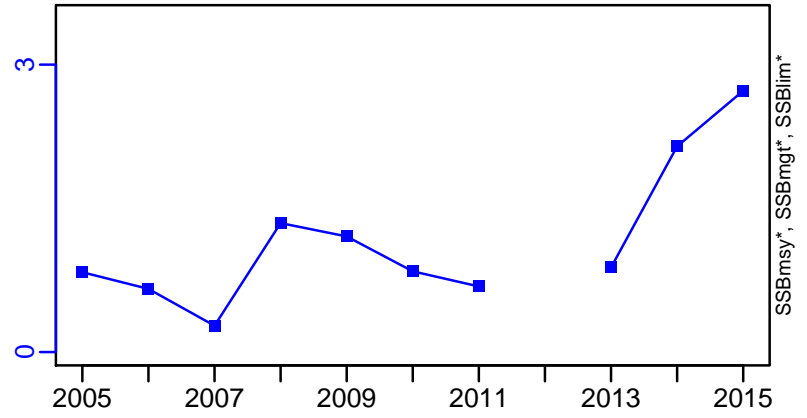
◆ Start Year ◆ End Year * No Data

Spotted ray Portugese Waters –East [SPRAYIXa]

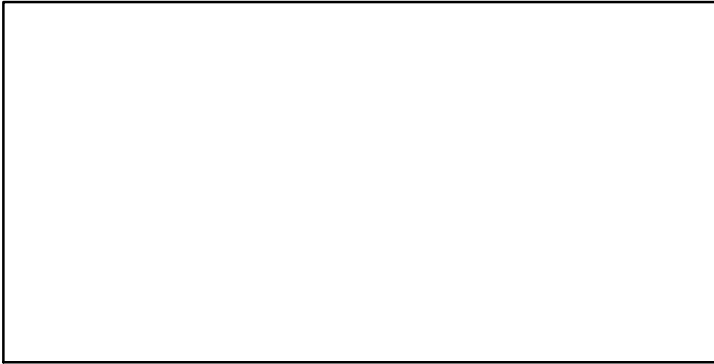
TB*



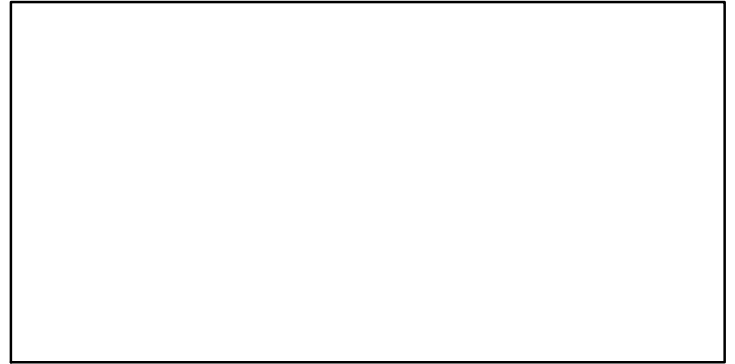
SSB-index (2003–2015–ICESIMP2018)



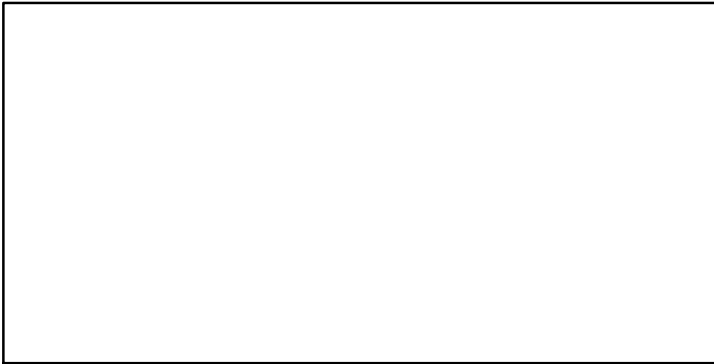
TN *



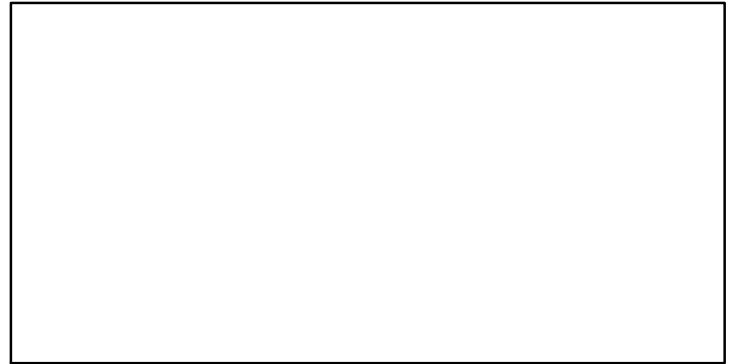
F*



ER*



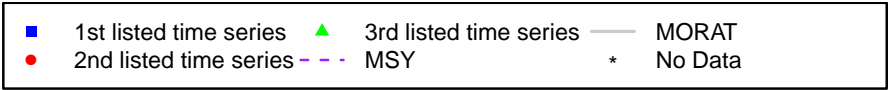
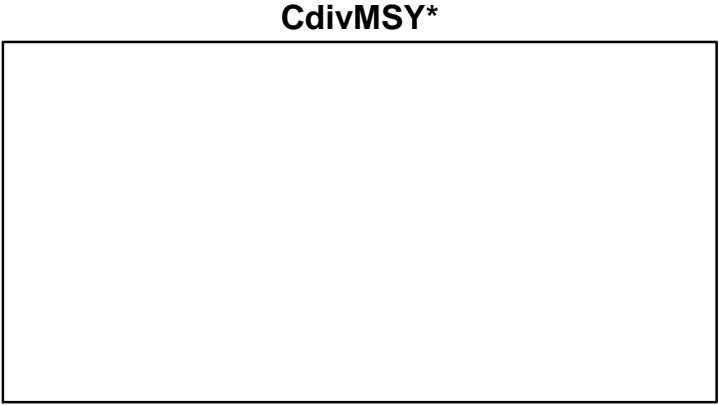
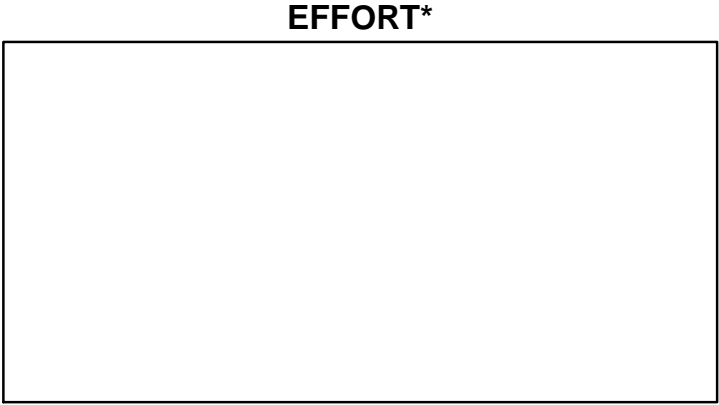
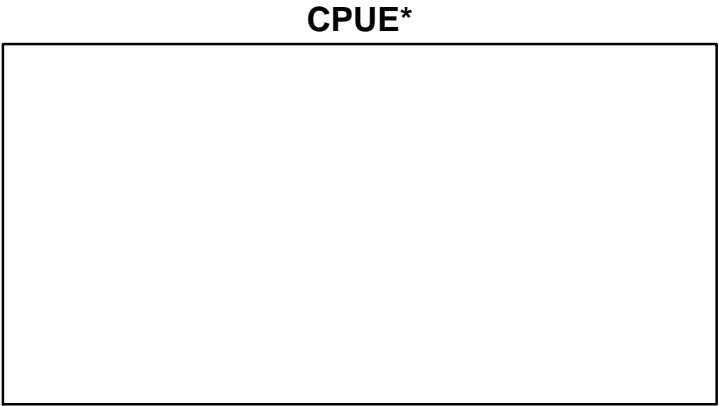
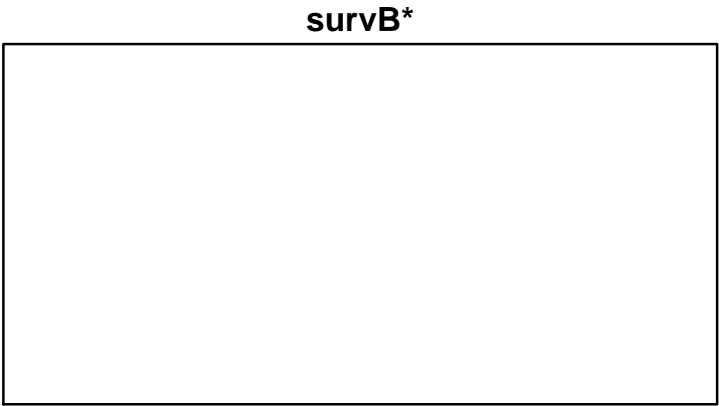
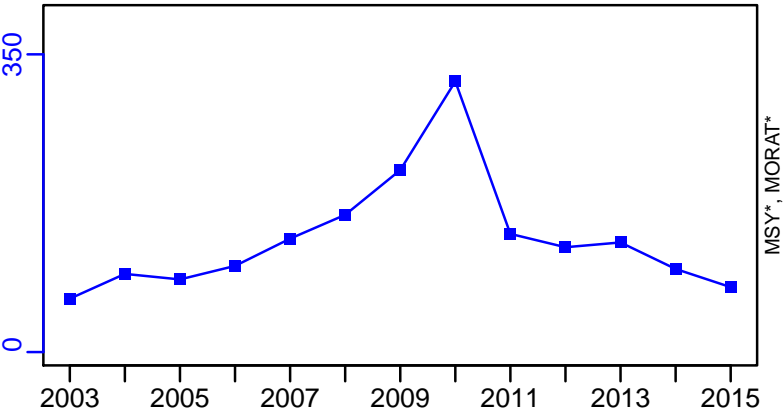
Recruits*



Spotted ray Portuguese Waters –East [SPRAYIXa]

TL–MT, TC*, RecC* (2003–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVIIaefgh-1993-2015-ICESIMP2018
Area	ICES 7aefgh
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	7	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	837		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

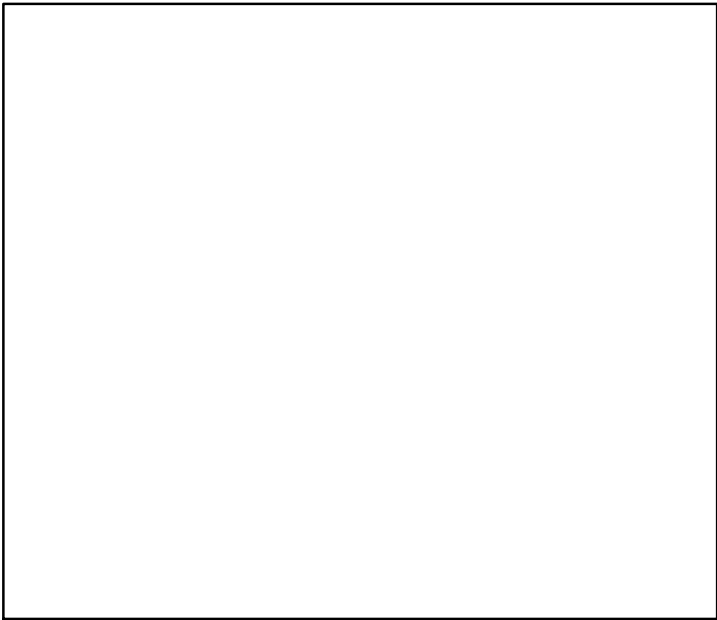
Kobe MSY*



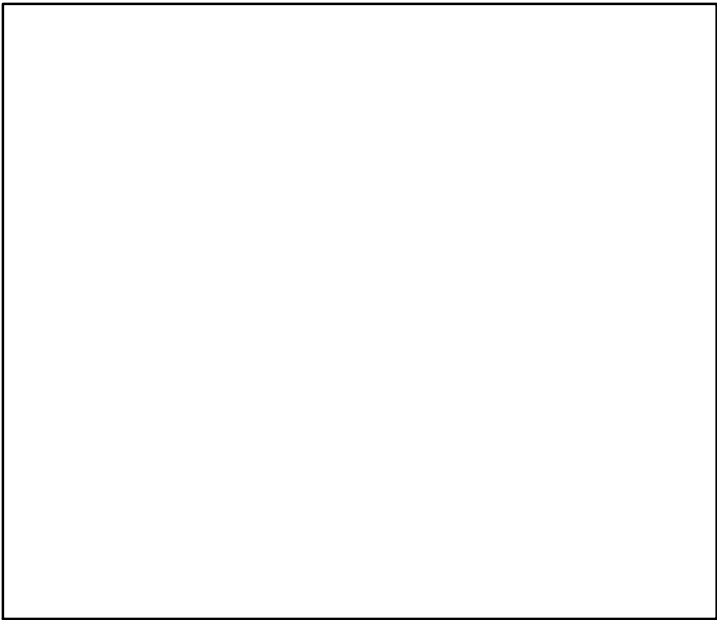
Kobe MGT*



Spawner Recruit*



Production*



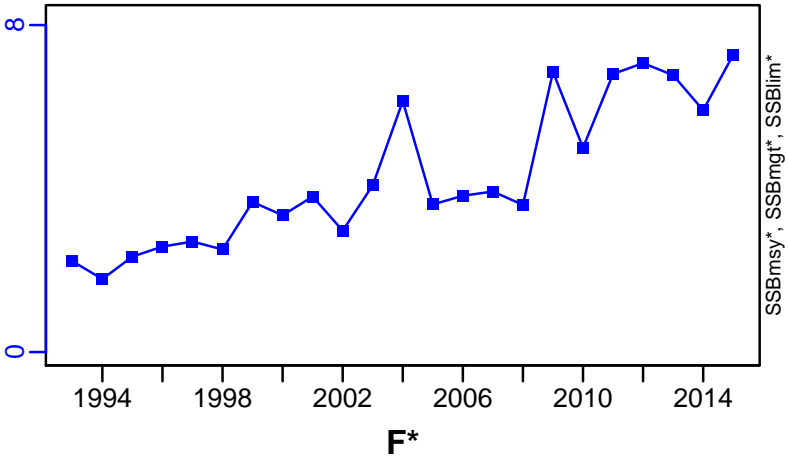
◆ Start Year ◆ End Year * No Data

Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

TB*



SSB-index (1993–2015–ICESIMP2018)



TN *



F*



ER*

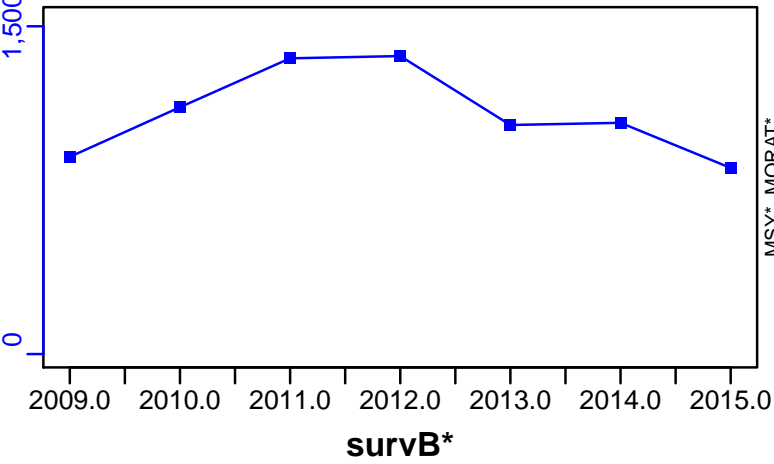


Recruits*

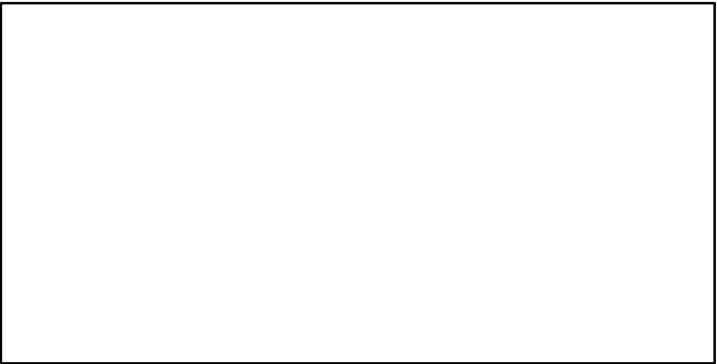


Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

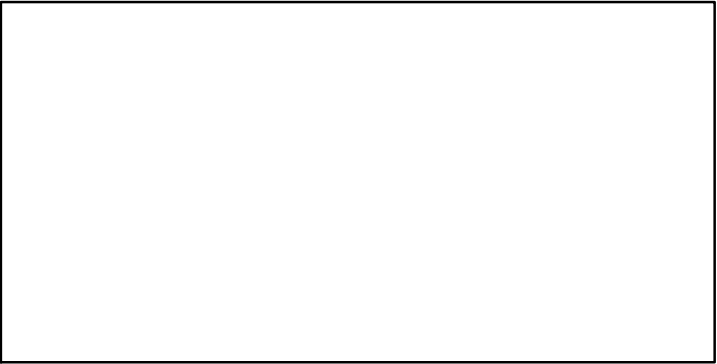
TL-MT, TC*, RecC* (1993–2015–ICESIMP2018)



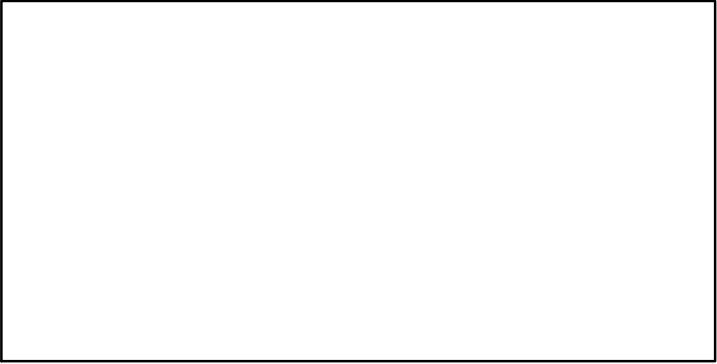
TAC*, Cpair*, Cadv*



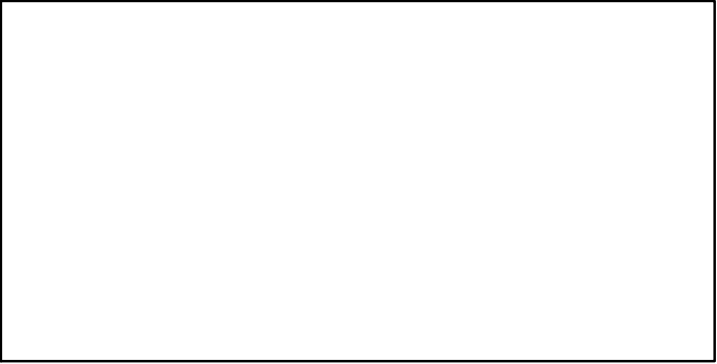
CPUE*



EFFORT*



CdivMSY*



Spotted ray Bay of Biscay [SPRAYVIII]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVIII-1999-2015-ICESIMP2018
Area	Bay of Biscay
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.29	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	176		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



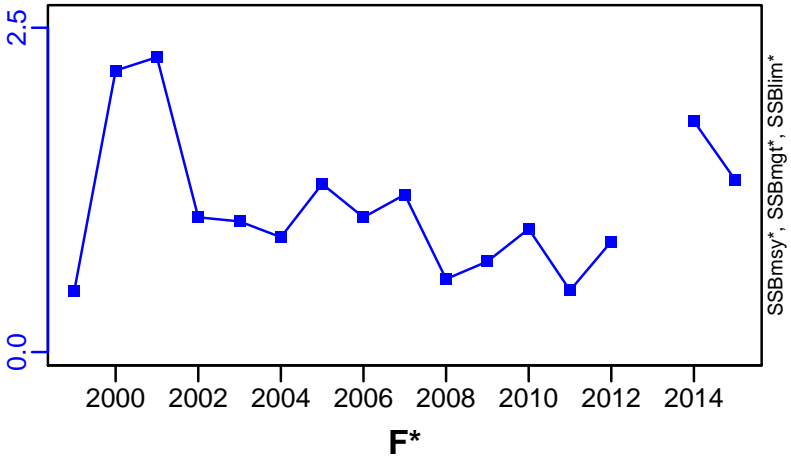
◆ Start Year ◆ End Year * No Data

Spotted ray Bay of Biscay [SPRAYVIII]

TB*



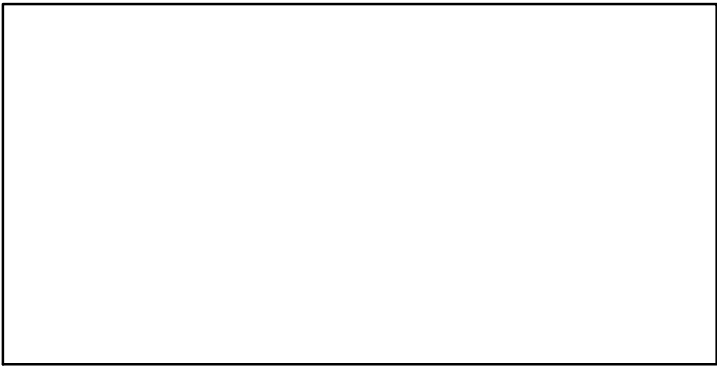
SSB-index (1999–2015–ICESIMP2018)



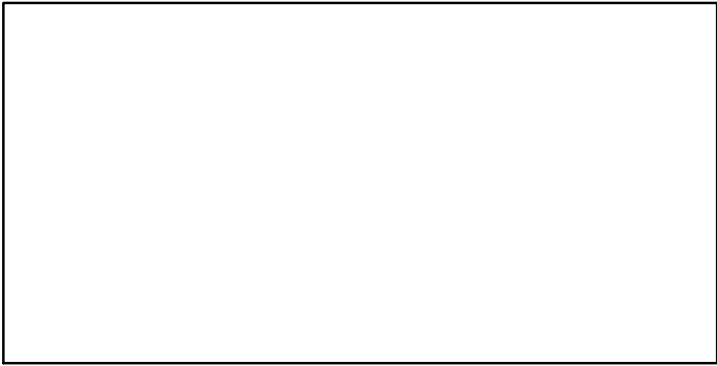
TN *



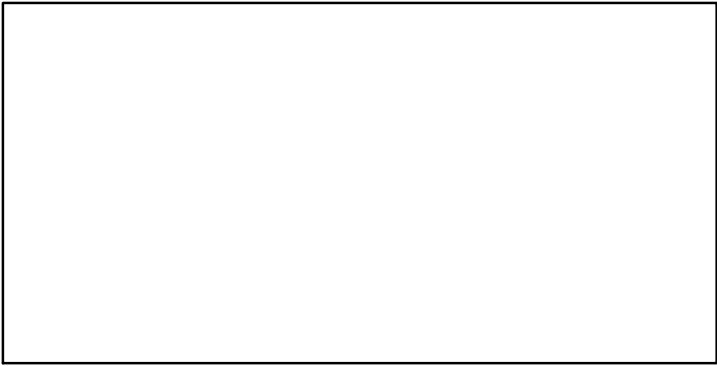
F*



ER*

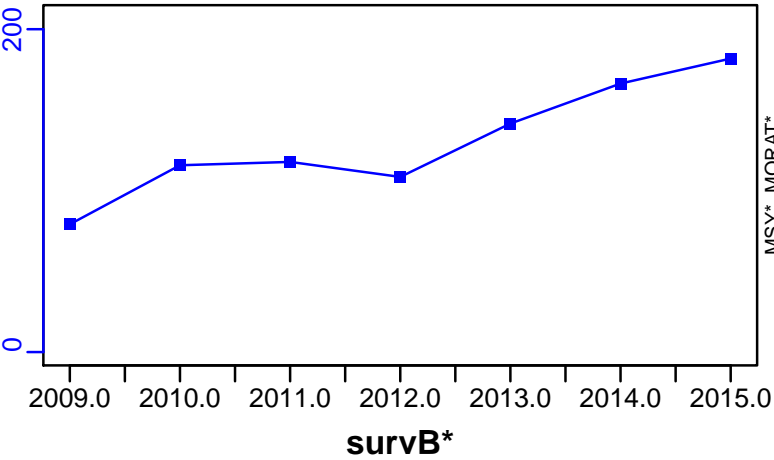


Recruits*



Spotted ray Bay of Biscay [SPRAYVIII]

TL-MT, TC*, RecC* (1999–2015–ICESIMP2018)



TAC*, Cpair*, Cadv*



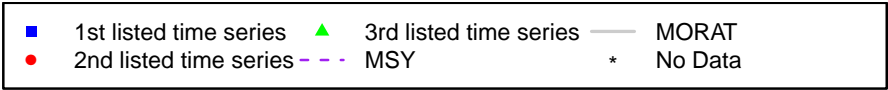
CPUE*



EFFORT*



CdivMSY*



Spotted ray ICES 6-7bj [SPRAYVI-VIIbj]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVI-VIIbj-2005-2015-ICESIMP2018
Area	ICES 6-7bj
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	119		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



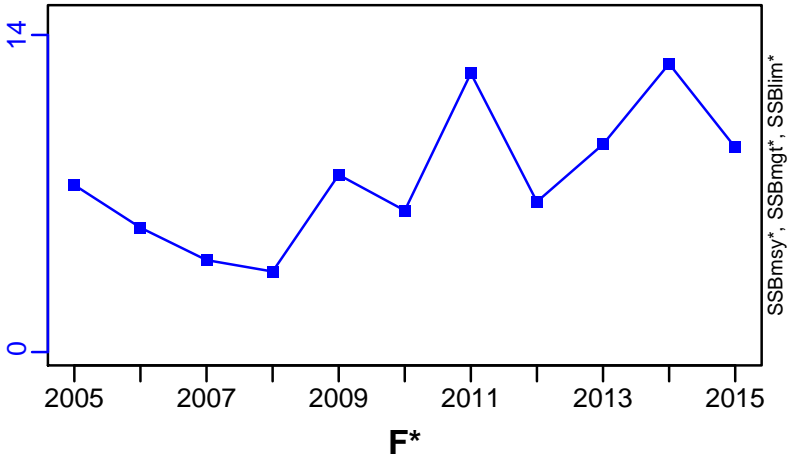
◆ Start Year ◆ End Year * No Data

Spotted ray ICES 6-7bj [SPRAYVI-VIIbj]

TB*



SSB-index (2005-2015-ICESIMP2018)



TN *



F*



ER*



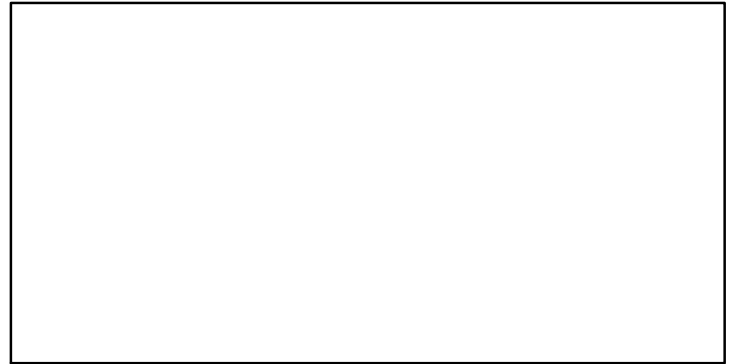
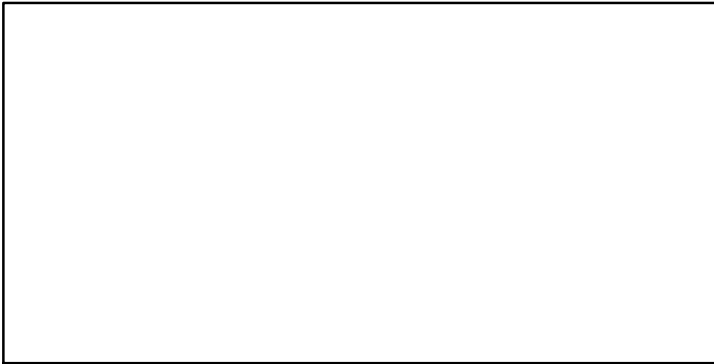
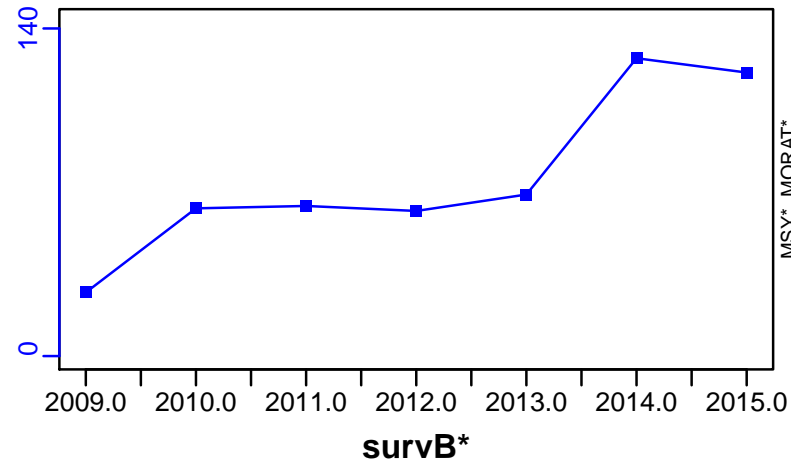
Recruits*



Spotted ray ICES 6–7bj [SPRAYVI–VIIbj]

TL–MT, TC*, RecC* (2005–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Spurdog Northeast Atlantic [SPURDNEATL]

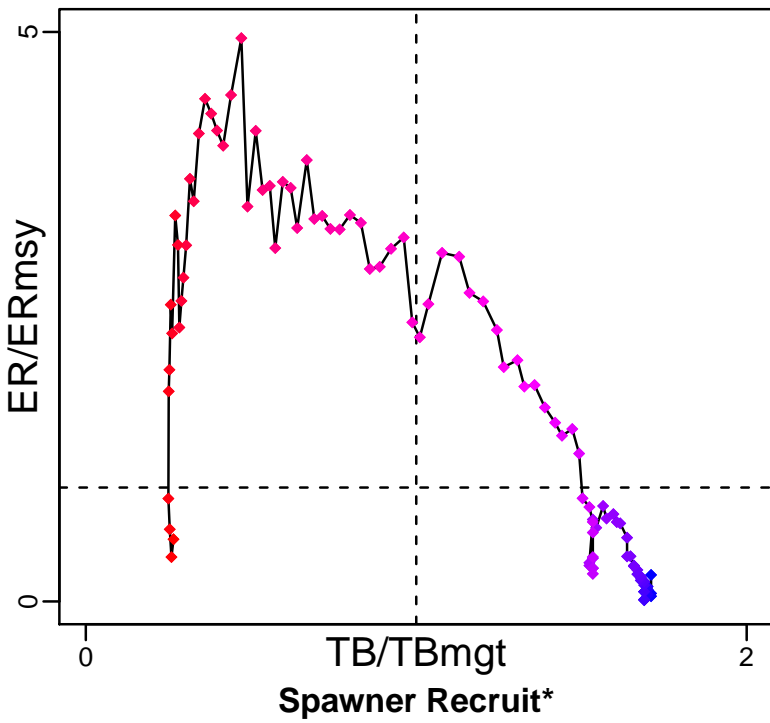
Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	WGEF-SPURDNEATL-1905-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.029
TBmgt	TBmgt-MT	2016	964,563
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.029
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

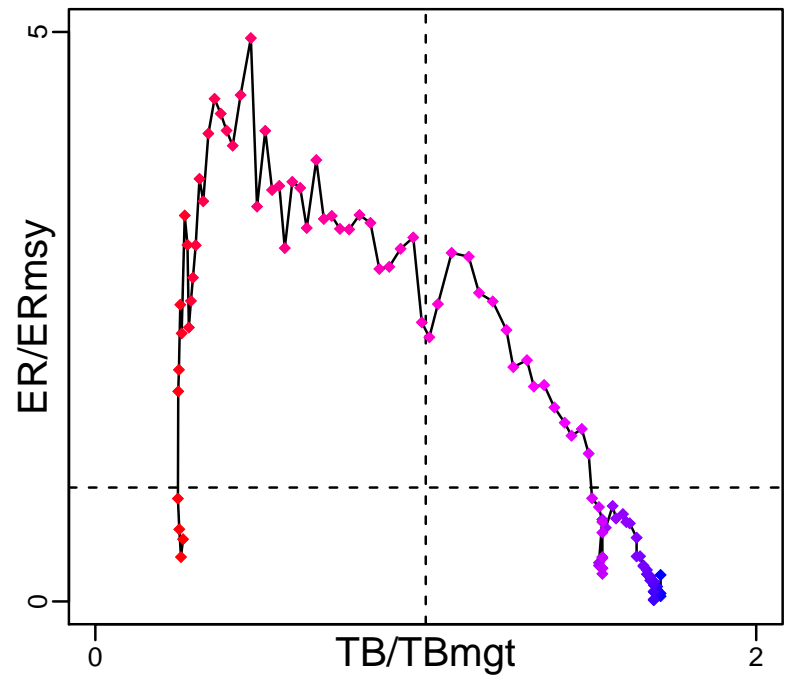
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	296,000	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2016	121,000	-	0
F	F-1/yr	2016	0.012	-	-
ER	ER-calc-ratio	2016	0.01	-	-
TC	TC-MT	2014	2380		
TL	TL-MT	2016	2640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.466		
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.307		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spurdog Northeast Atlantic [SPURDNEATL]

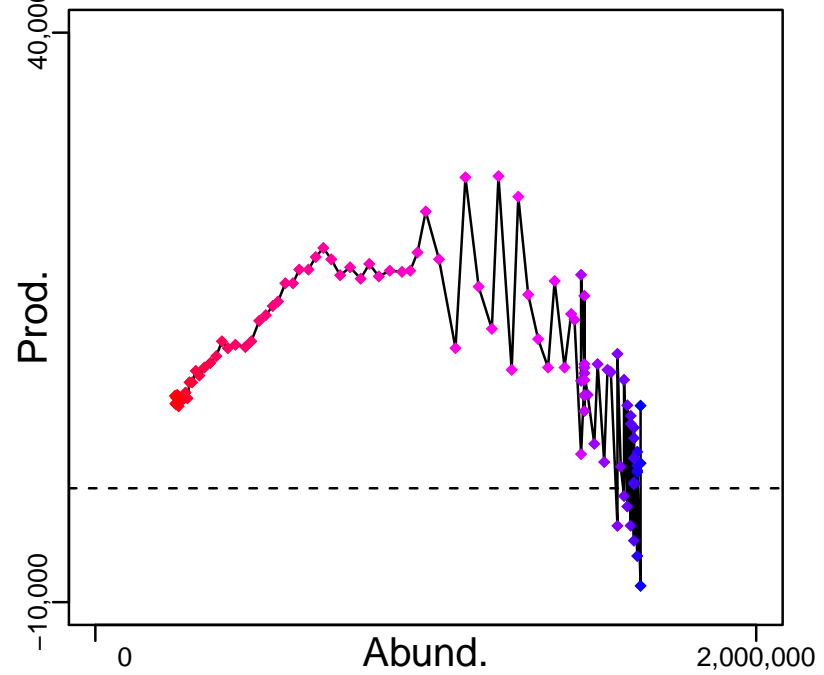
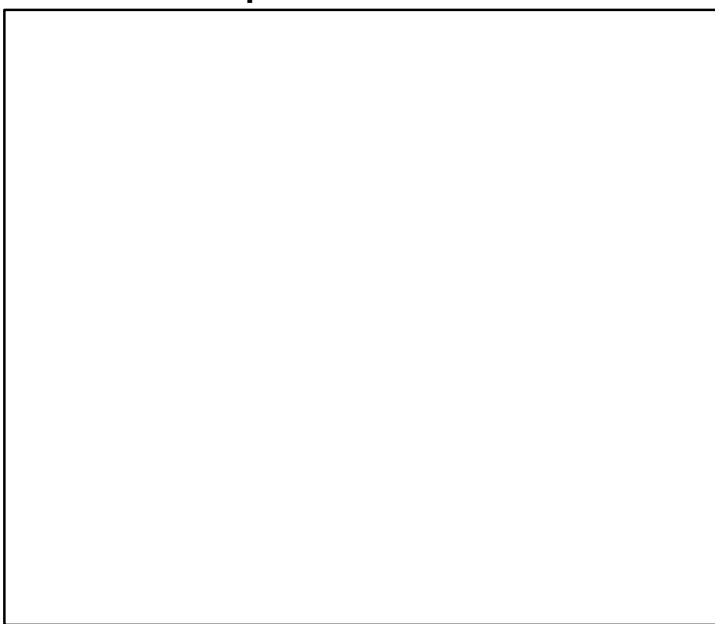
Kobe MSYpref (1905–2016–ICESIMP2018)



Kobe MGTpref (1905–2016–ICESIMP2018)



Production (1905–2016–ICESIMP2018)

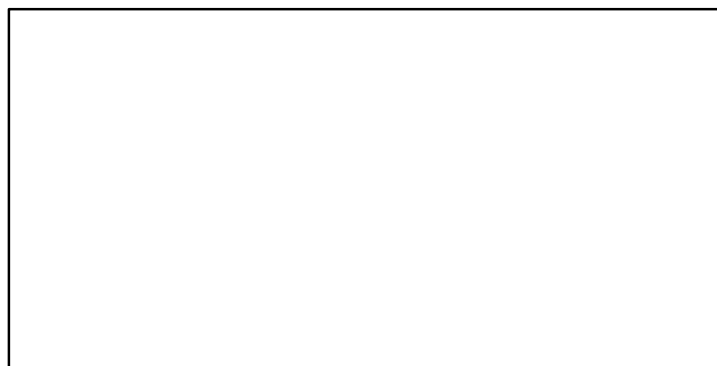
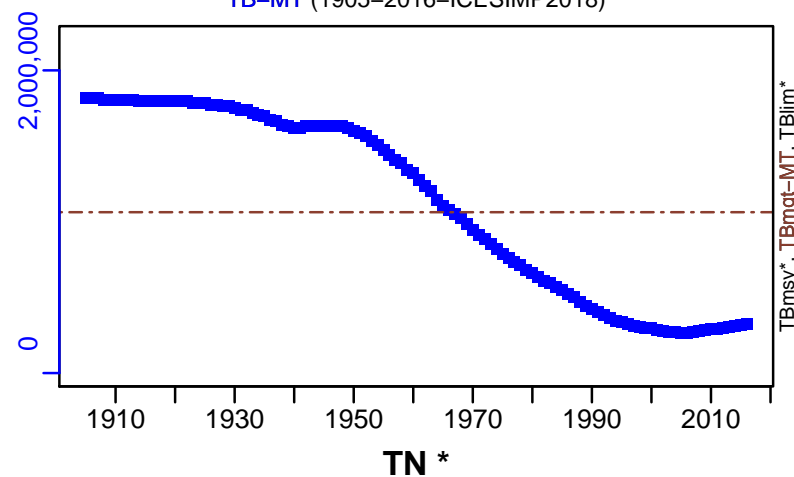


◆ Start Year ◆ End Year * No Data

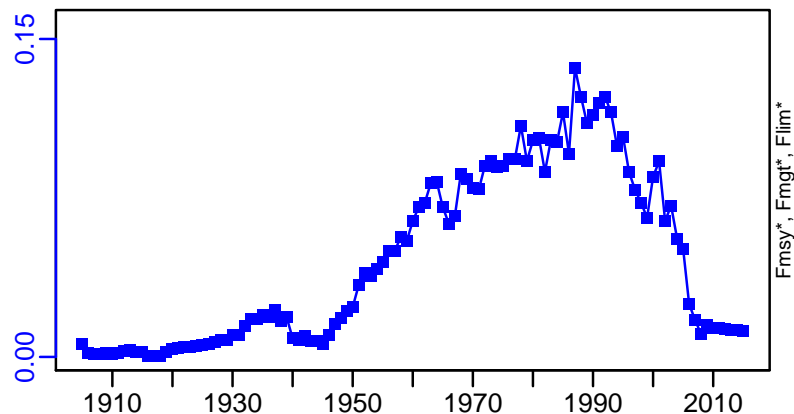
Spurdog Northeast Atlantic [SPURDNEATL]

TB-MT (1905–2016–ICESIMP2018)

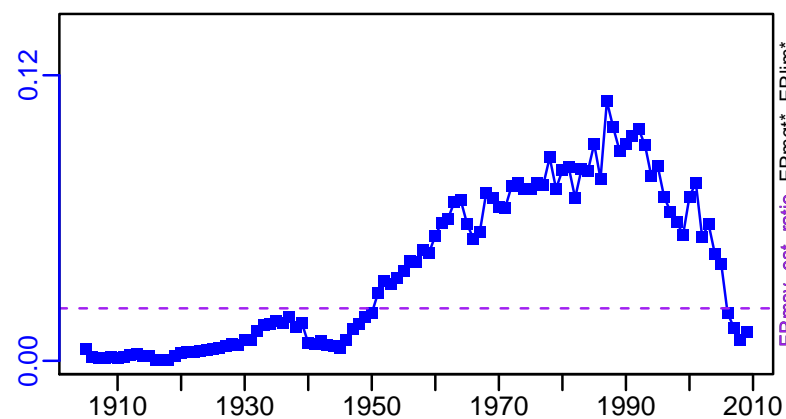
SSB*



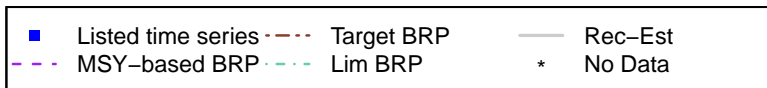
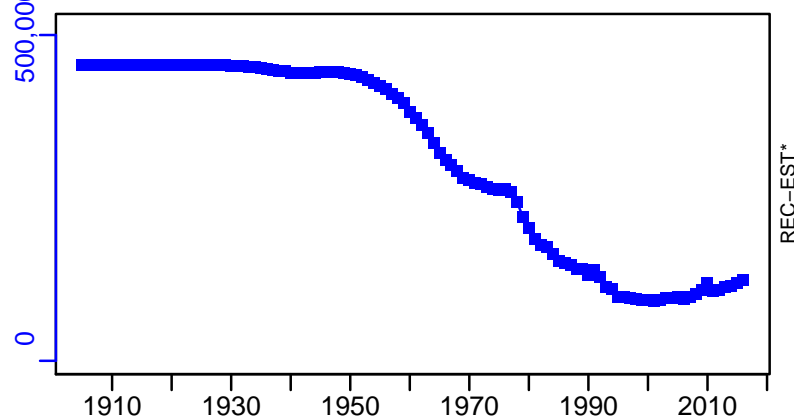
F-1/yr (1905–2016–ICESIMP2018)



ER-calc-ratio (1905–2016–ICESIMP2018)



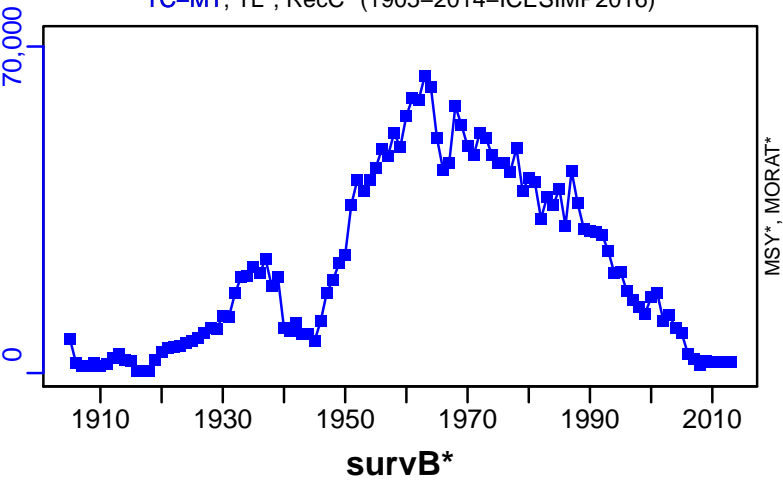
R-E00 (1905–2016–ICESIMP2018)



Spurdog Northeast Atlantic [SPURDNEATL]

TC-MT, TL*, RecC* (1905–2014–ICESIMP2016)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

Starry ray ICES 2-3a-4 [STRAYII-IIIa-IV]

Metadata	
Scientific Name	Amblyraja radiata
Current Assess ID	WGEF-STRAYII-IIIa-IV-1991-2018-ICESIMP2021
Area	ICES 2-3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	0.41	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	1.341		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



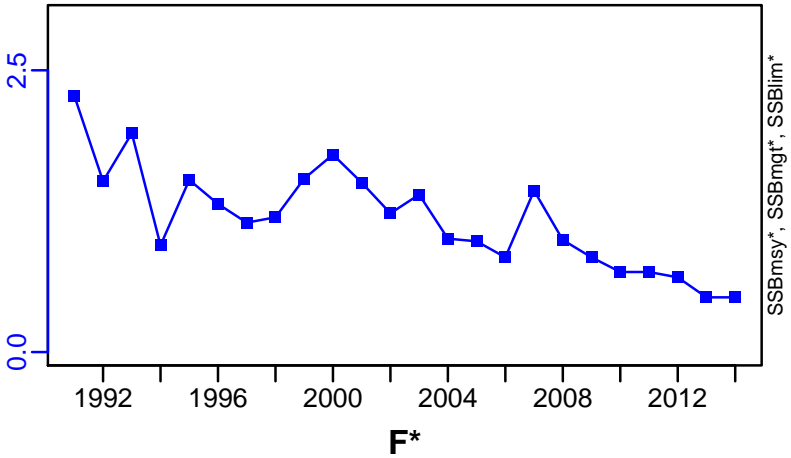
◆ Start Year ◆ End Year * No Data

Starry ray ICES 2–3a–4 [STRAYII–IIIa–IV]

TB*



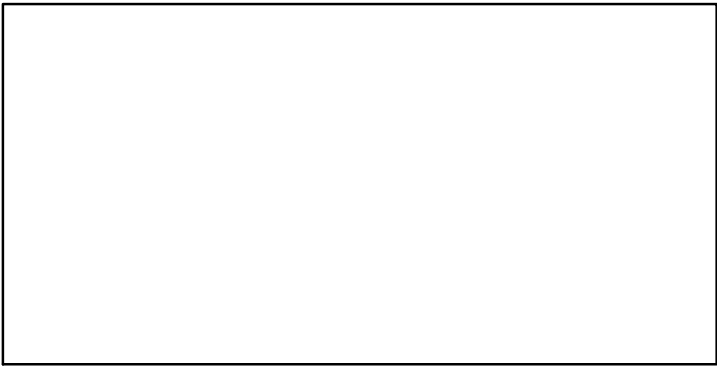
SSB-index (1991–2014–ICESIMP2018)



TN *



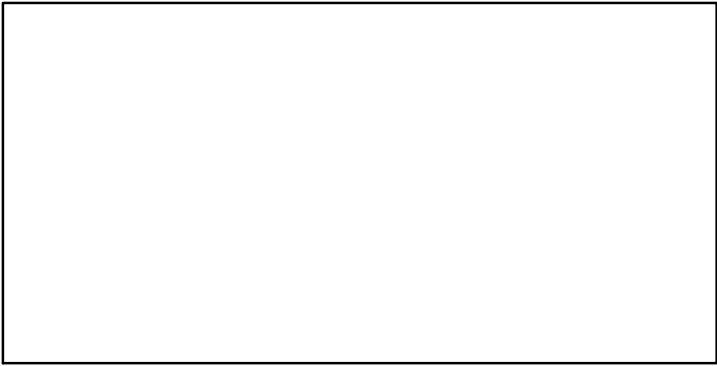
F*



ER*



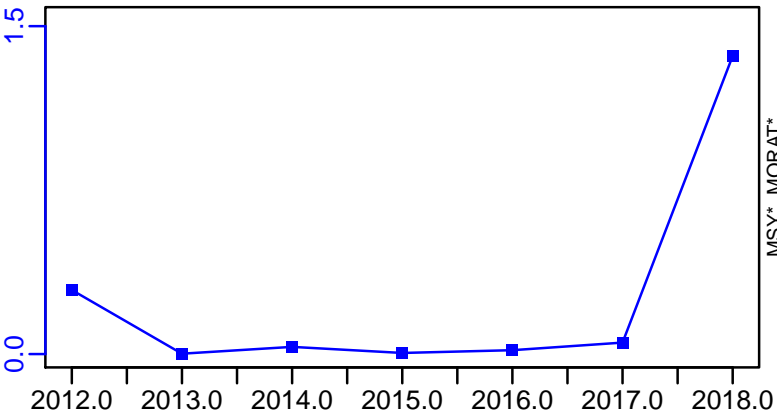
Recruits*



Starry ray ICES 2–3a–4 [STRAYII–IIIa–IV]

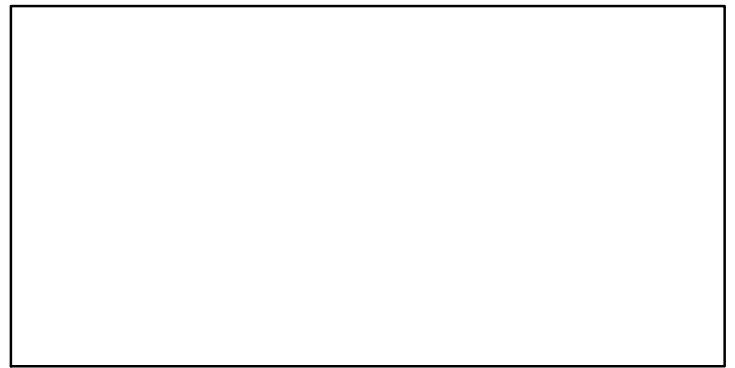
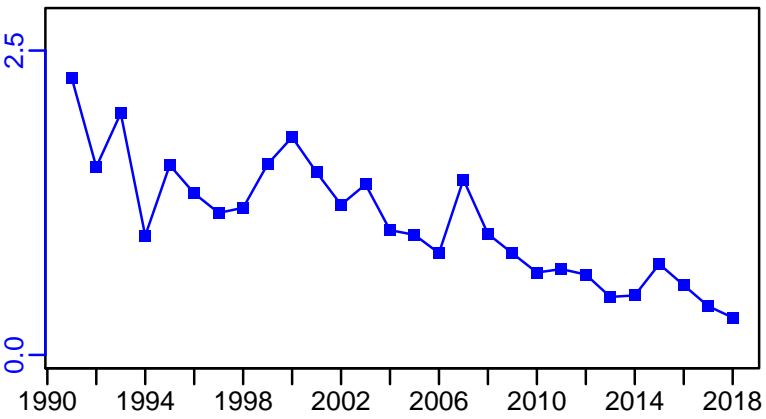
TL–MT, TC*, RecC* (1991–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



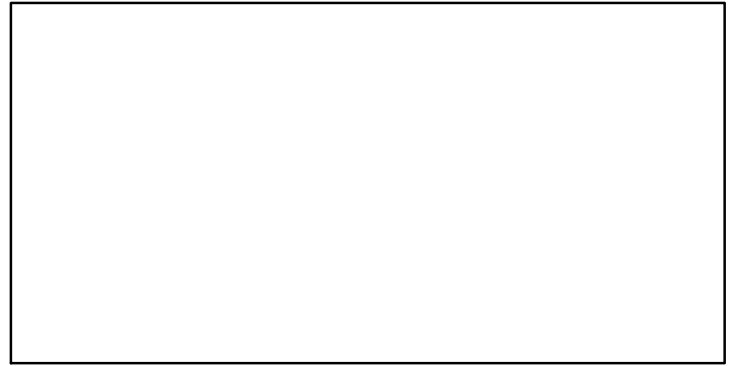
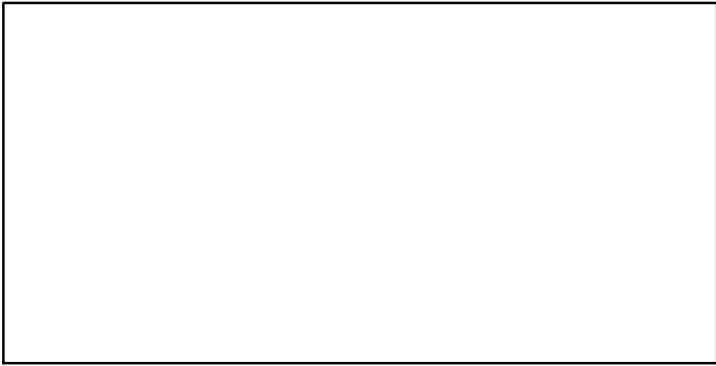
survB–index (1991–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Striped red mullet ICES 3a-4-7d [STRMULLIIIa-IV-VIId]

Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGNSSK-STRMULLIIIa-IV-VIId-2004-2018-ICESIMP2021
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016, 2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	0.59	-	-
TN	-	-	-	-	-
R	R-relative	2018	7	-	-
F	F-relative	2018	2.077	-	1 to 2
ER	ER-calc-ratio	2014	0.511	-	-
TC	TC-MT	2018	1648		
TL	TL-MT	2018	1648		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Striped red mullet ICES 3a–4–7d [STRMULLIIIa–IV–VIIId]

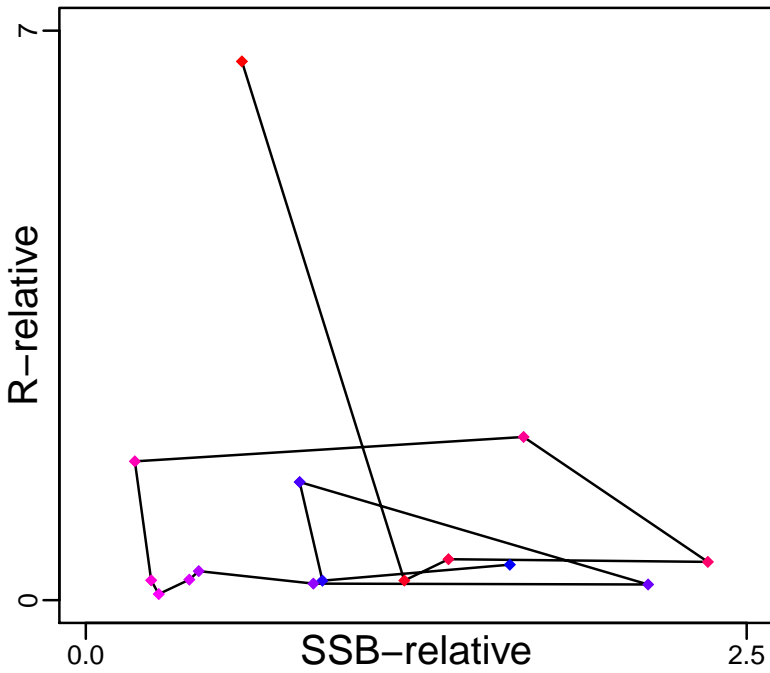
Kobe MSY*



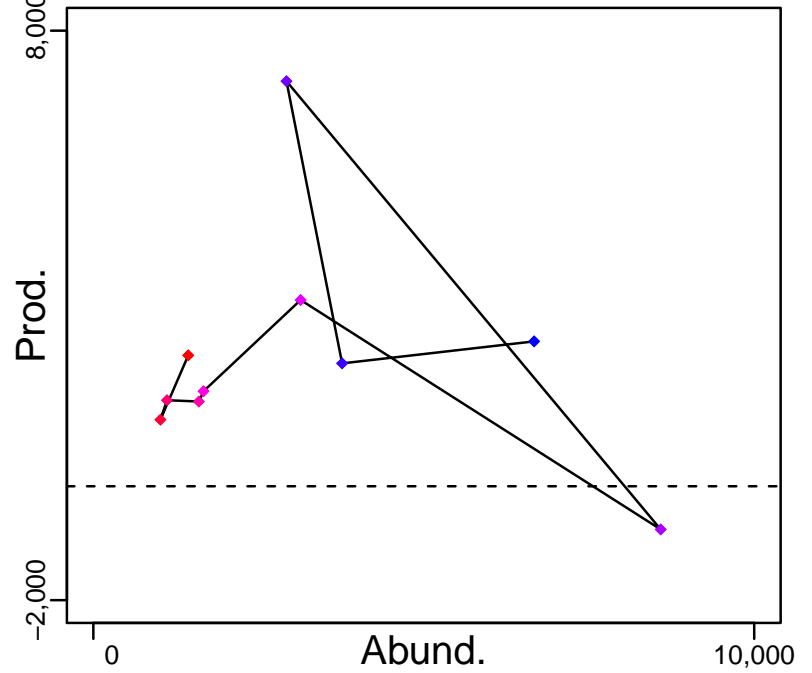
Kobe MGT*



Spawner Recruit (2004–2018–ICESIMP2021)



Production (1975–2014–ICESIMP2018)



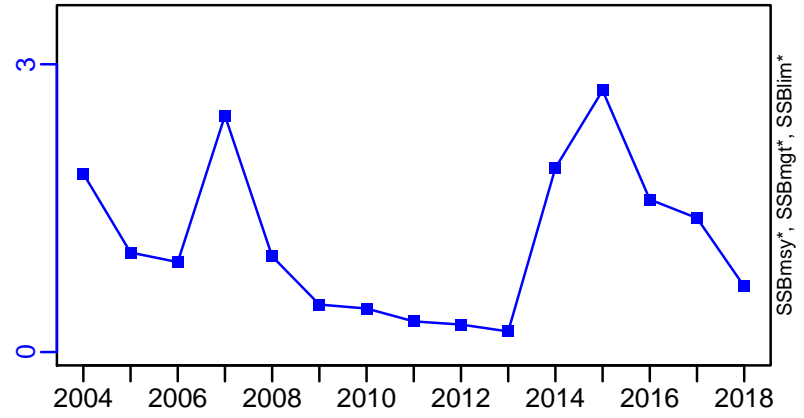
◆ Start Year ◆ End Year * No Data

Striped red mullet ICES 3a-4-7d [STRMULLIIIa-IV-VIId]

TB*



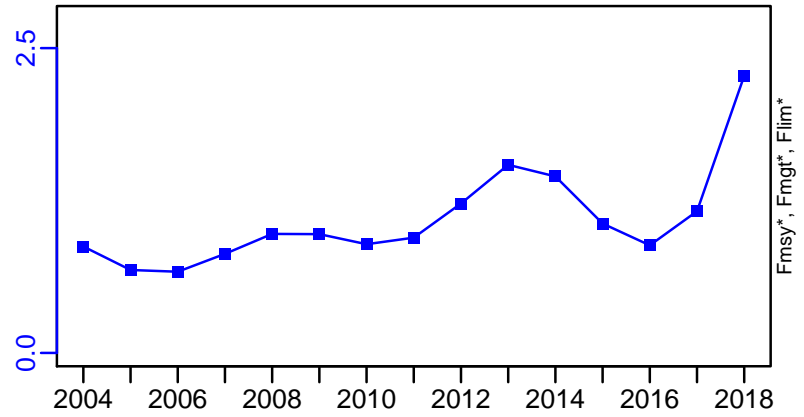
SSB-relative (2004-2018-ICESIMP2021)



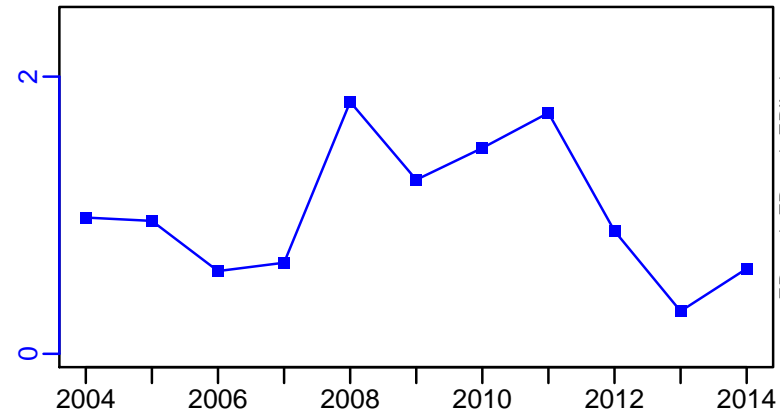
TN *



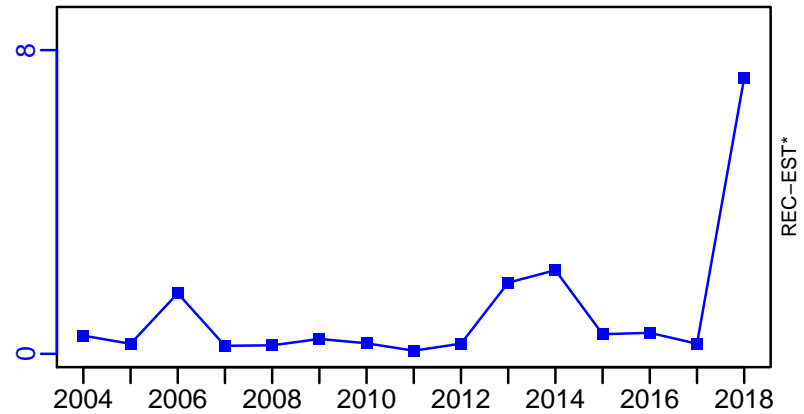
F-relative (2004-2018-ICESIMP2021)



ER-calc-ratio (1975-2014-ICESIMP2018)

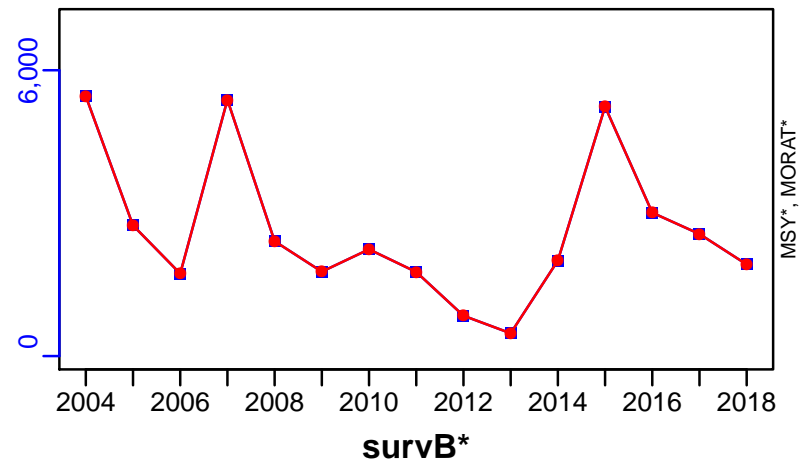


R-relative (2004-2018-ICESIMP2021)



Striped red mullet ICES 3a–4–7d [STRMULLIIIa–IV–VIIId]

TC–MT, TL–MT, RecC* (2004–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Striped red mullet ICES 6-7abcefg hijk-8-9a [STRMULLVI-VIIabcefg hijk-VIII-IXa]

Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGwide-STRMULLVI-VIIabcefg hijk-VIII-IXa-1975-2016-ICESIMP2018
Area	ICES 6-7abcefg hijk-8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 2016

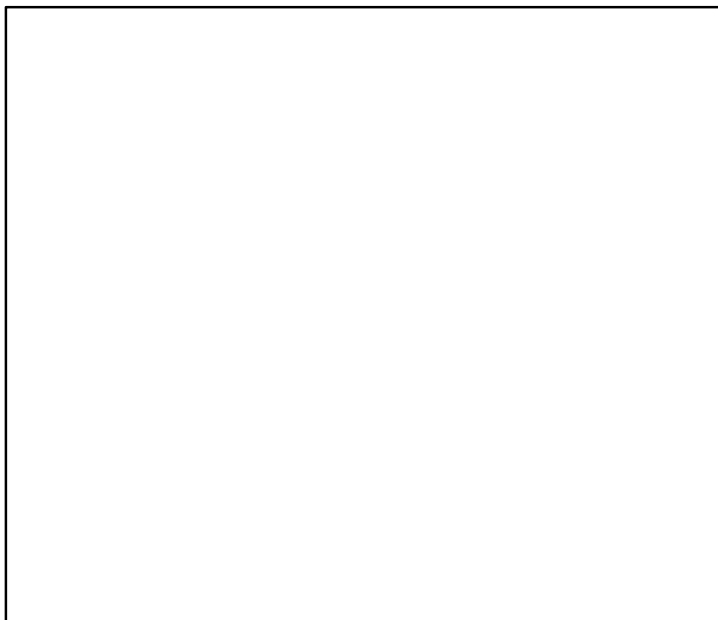
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

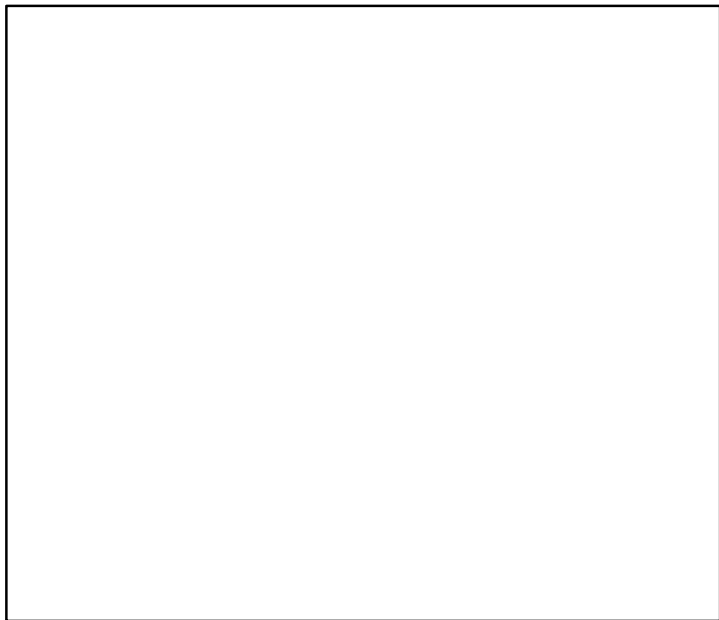
Kobe MSY*



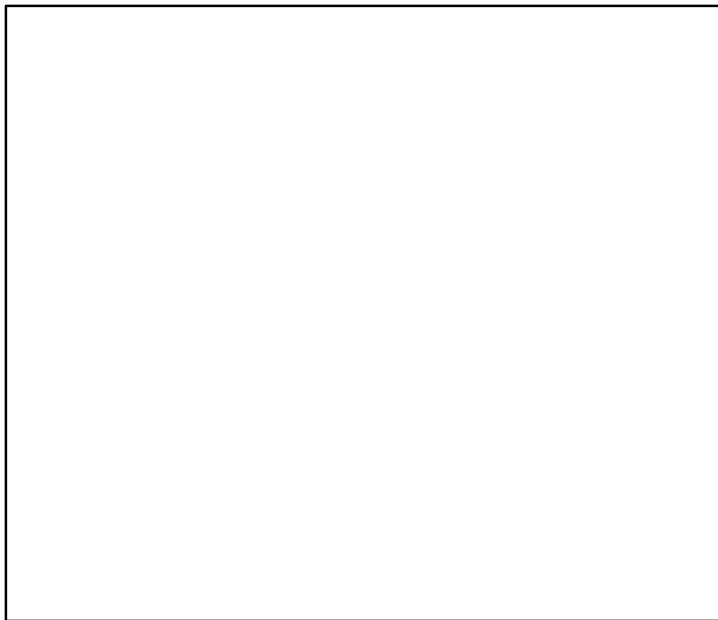
Kobe MGT*



Spawner Recruit*

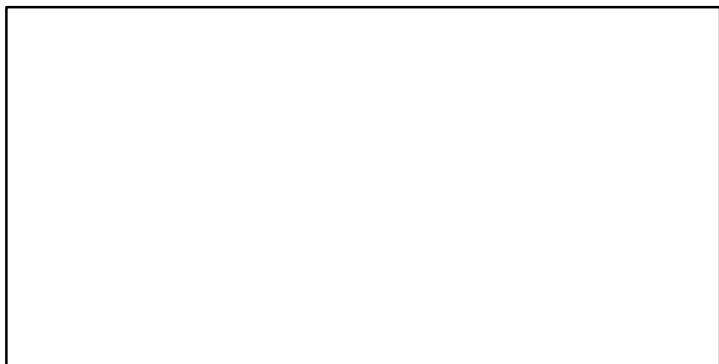


Production*

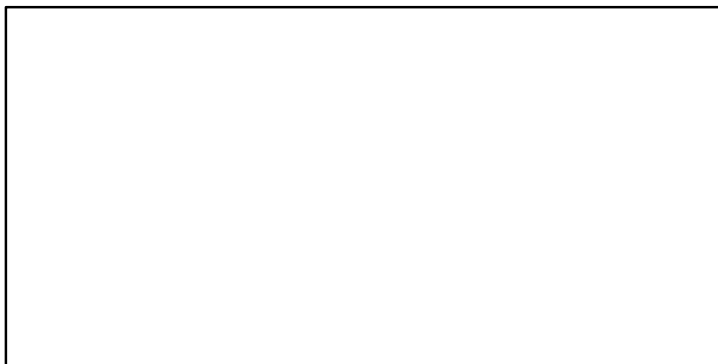


◆ Start Year ◆ End Year * No Data

TB*



SSB*



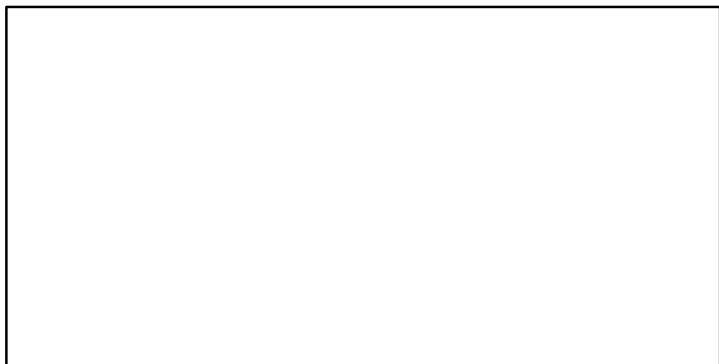
TN *



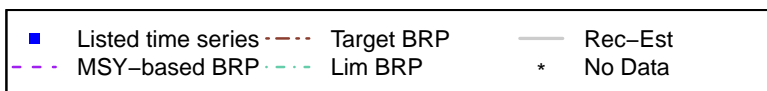
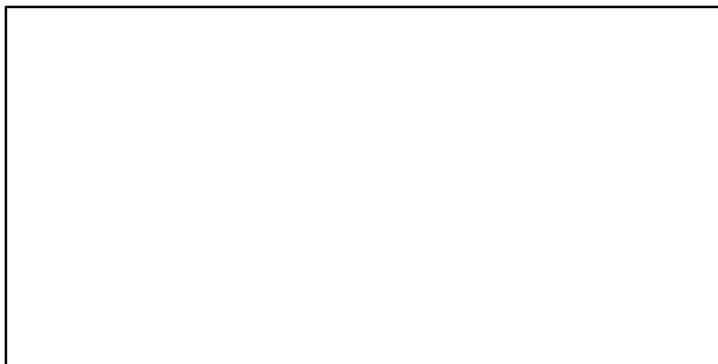
F*



ER*

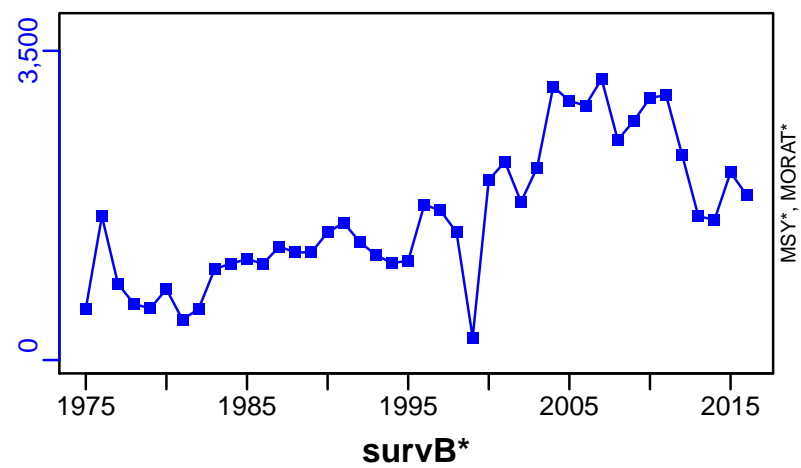


Recruits*



Striped red mullet ICES 6–7abcefg hijk–8–9a [STRMULLVI–VIIlabcefg hijk–VIII–IXa]

TL–MT, TC*, RecC* (1975–2016–ICESIMP2018)



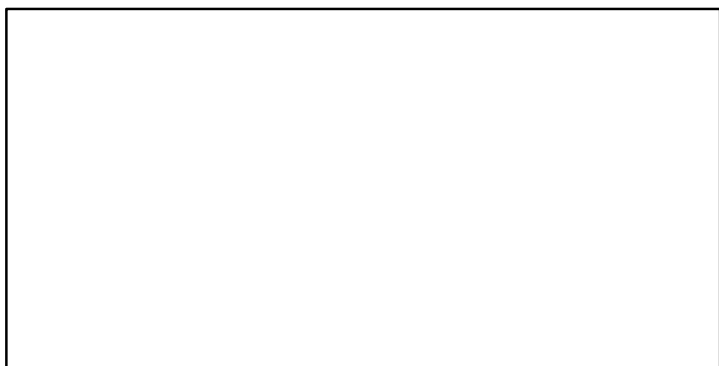
TAC*, Cpair*, Cadv*



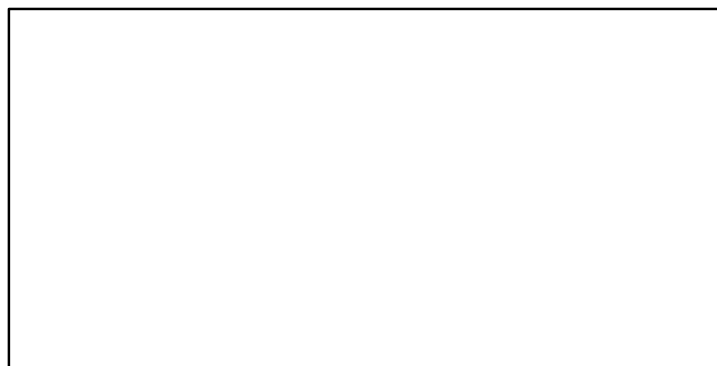
CPUE*



EFFORT*



CdivMSY*



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

Sea trout Baltic Areas 22-32 [STROUT22-32]

Metadata	
Scientific Name	Salmo trutta
Current Assess ID	WGBAST-STROUT22-32-2001-2016-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Assessment Working Group on Baltic Salmon and Trout
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	232		
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*

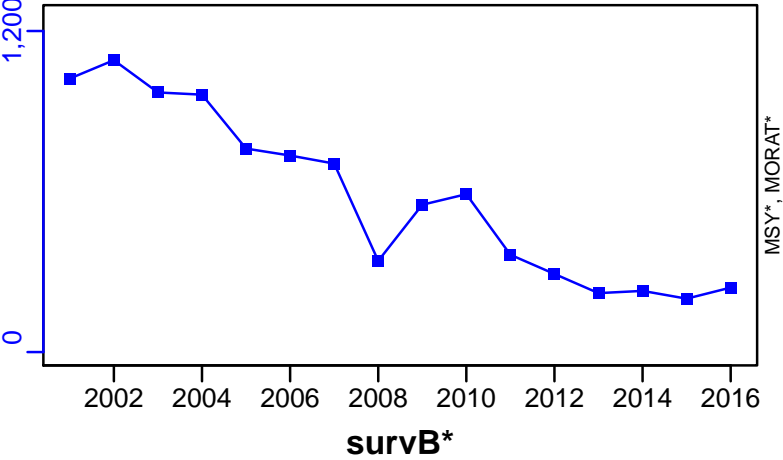


Recruits*



Sea trout Baltic Areas 22–32 [STROUT22–32]

TC–MT, TL*, RecC* (2001–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Thornback skate ICES 3a-4-7d [TBSKAIIIa-IV-VIId]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIIIa-IV-VIId-1993-2018-ICESIMP2021
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	2.84	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	2219		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



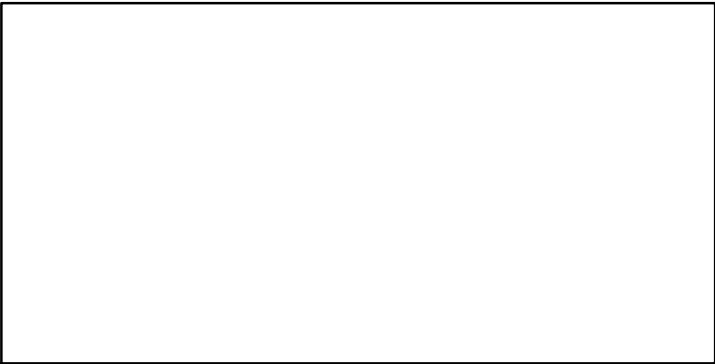
Production*



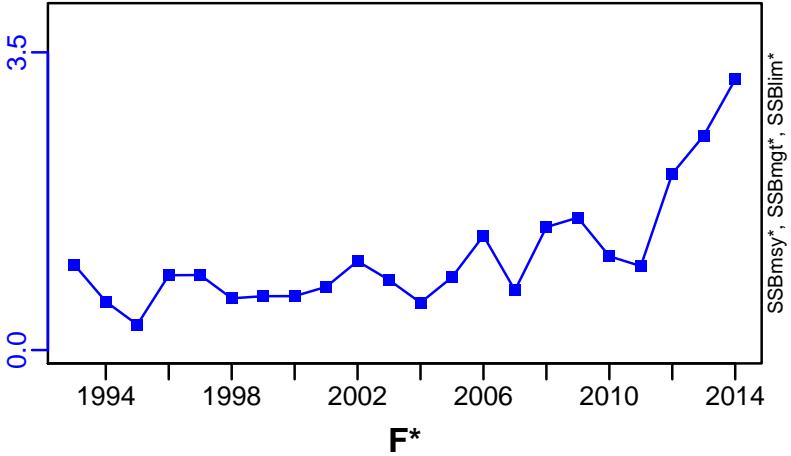
◆ Start Year ◆ End Year * No Data

Thornback skate ICES 3a–4–7d [TBSKAIIIa–IV–VIIId]

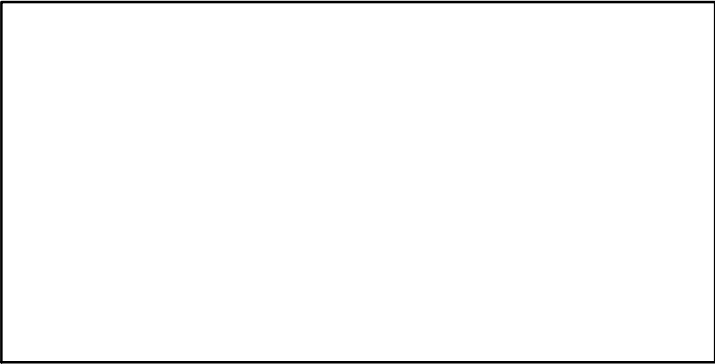
TB*



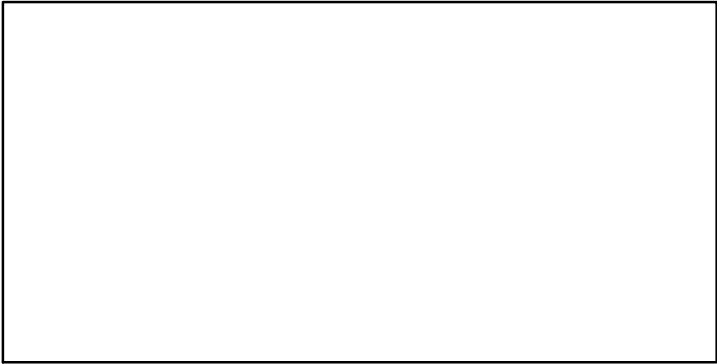
SSB-index (1993–2014–ICESIMP2018)



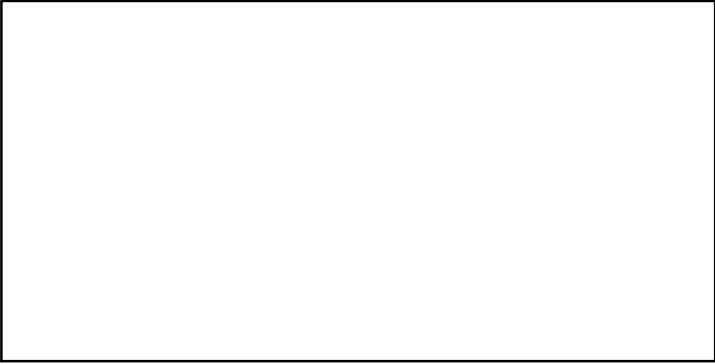
TN *



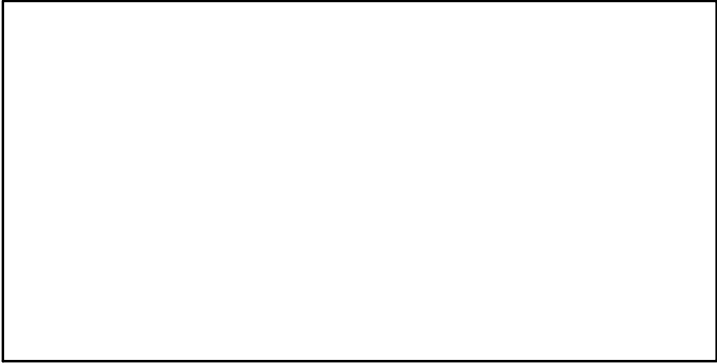
F*



ER*



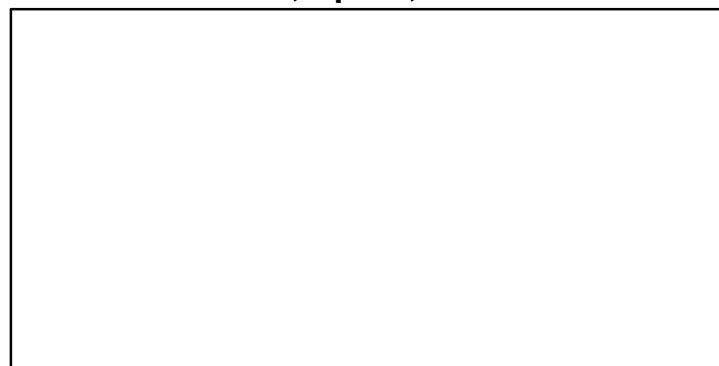
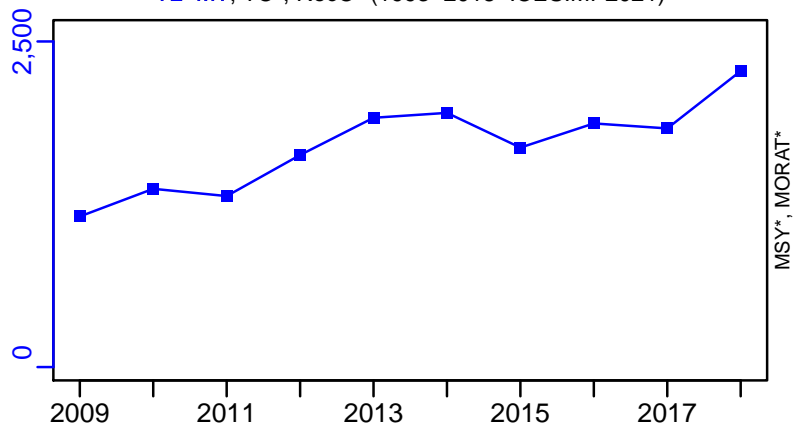
Recruits*



Thornback skate ICES 3a–4–7d [TBSKAIIIa–IV–VIIId]

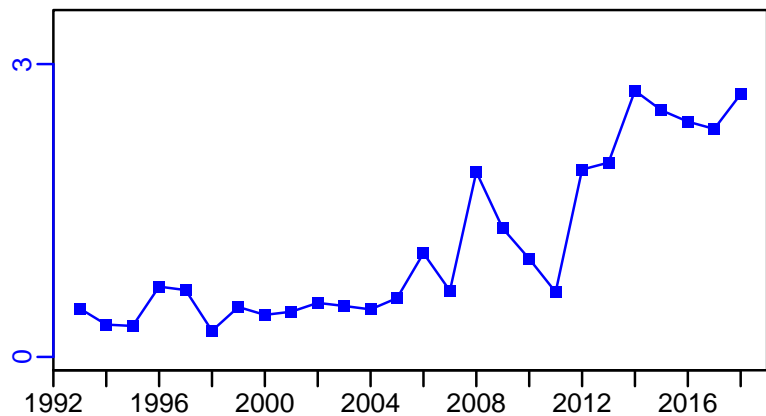
TL–MT, TC*, RecC* (1993–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



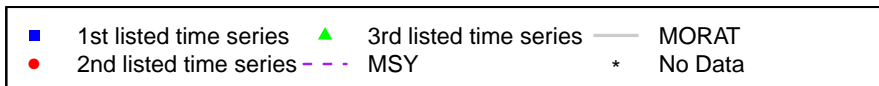
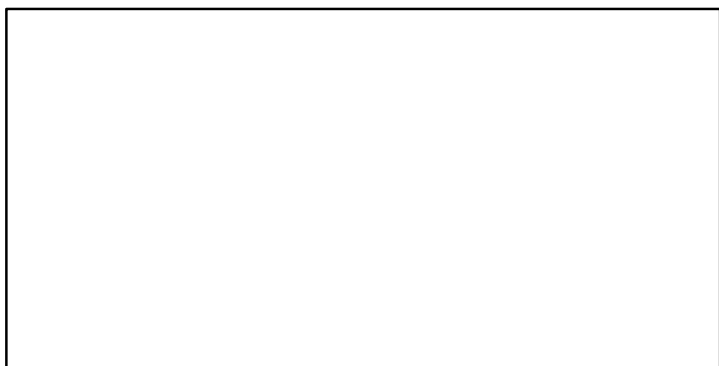
survB–index (1993–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



Thornback skate Portuguese Waters -East [TBSKAIXa]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIXa-1997-2015-ICESIMP2018
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	724		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

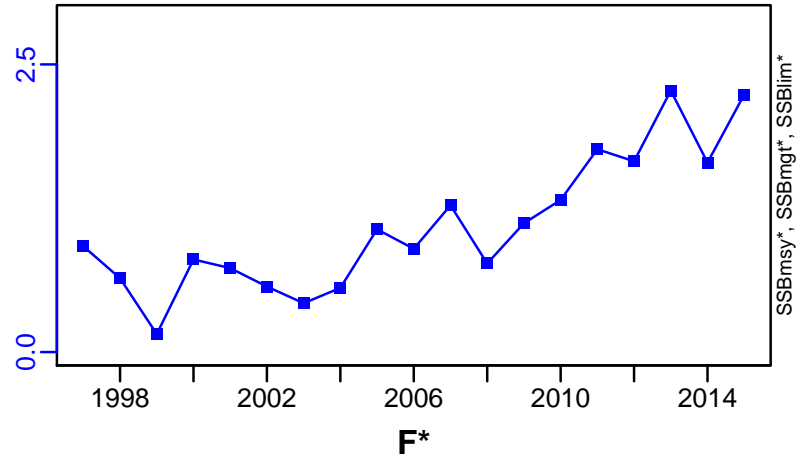
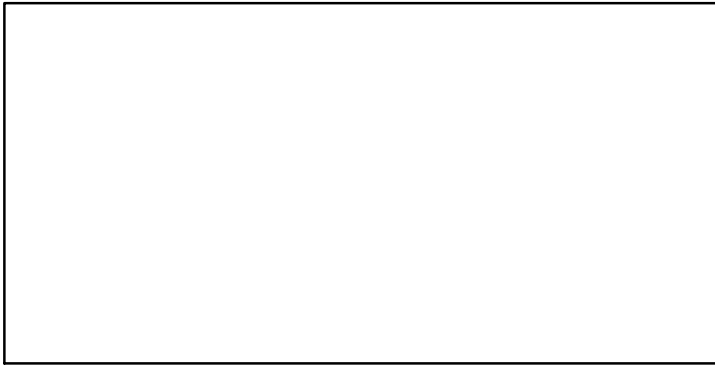


◆ Start Year ◆ End Year * No Data

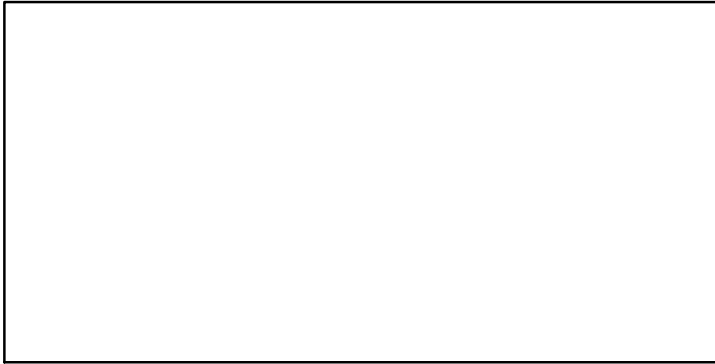
Thornback skate Portugese Waters –East [TBSKAIXa]

TB*

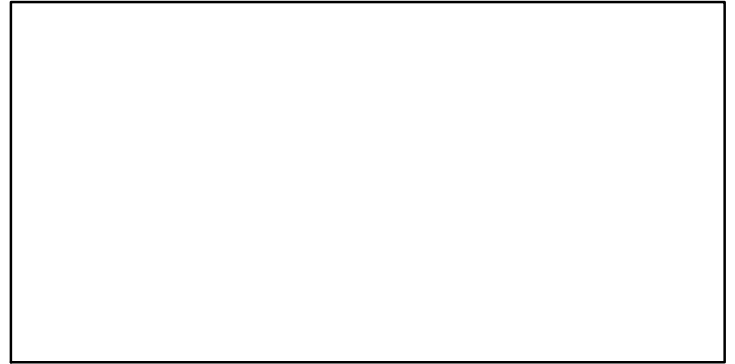
SSB-index (1997–2015–ICESIMP2018)



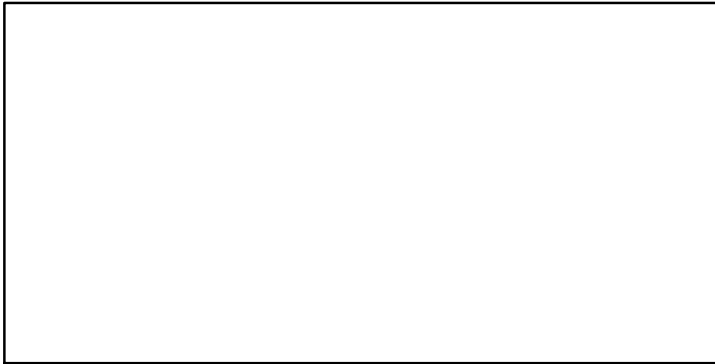
TN *



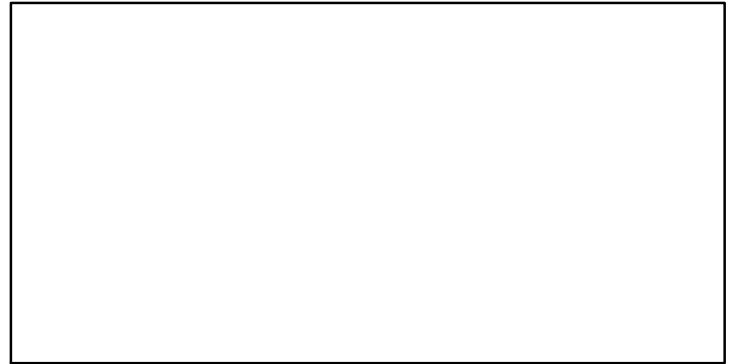
F*



ER*



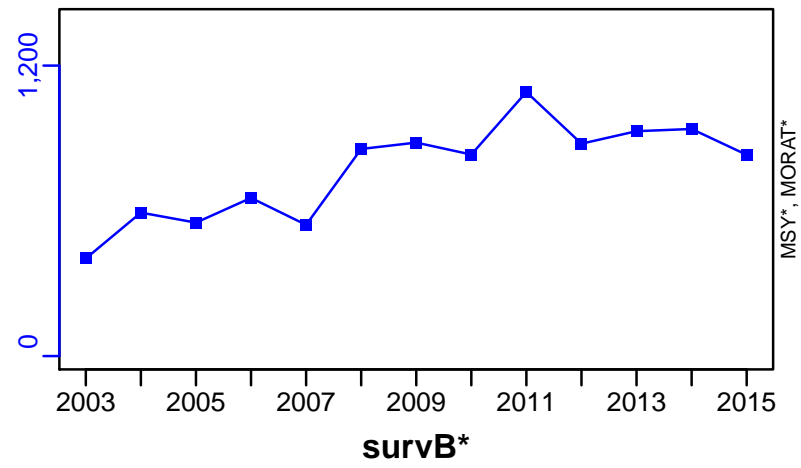
Recruits*



Thornback skate Portuguese Waters –East [TBSKAIXa]

TL–MT, TC*, RecC* (1997–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Thornback skate ICES 6 [TBSKAVI]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVI-2005-2015-ICESIMP2018
Area	ICES 6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	8	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	241		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



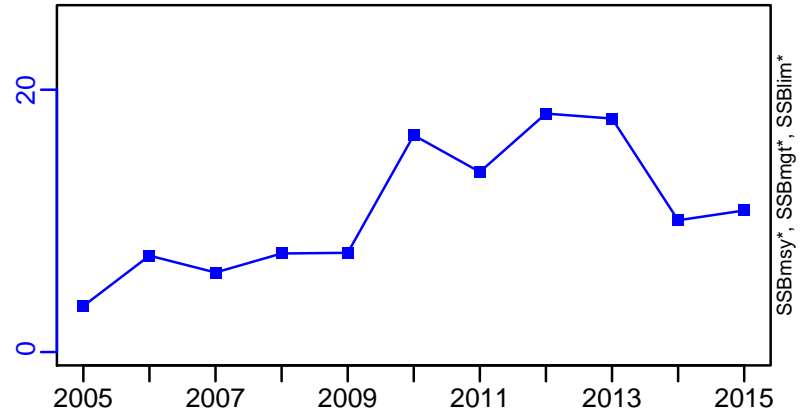
◆ Start Year ◆ End Year * No Data

Thornback skate ICES 6 [TBSKAVI]

TB*



SSB-index (2005–2015–ICESIMP2018)



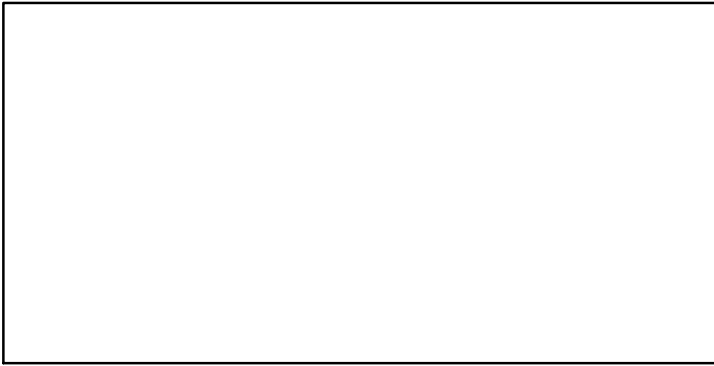
TN *



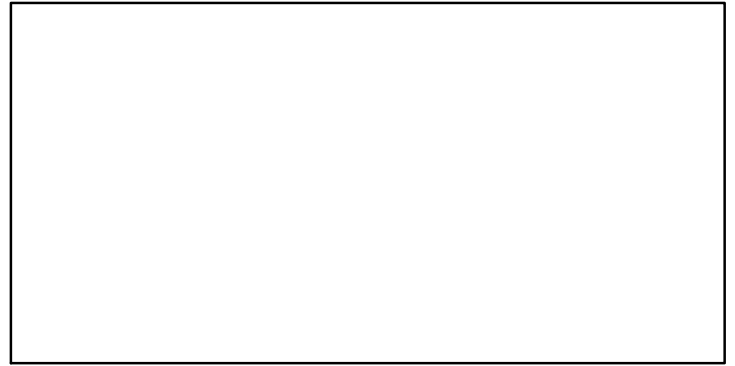
F*



ER*



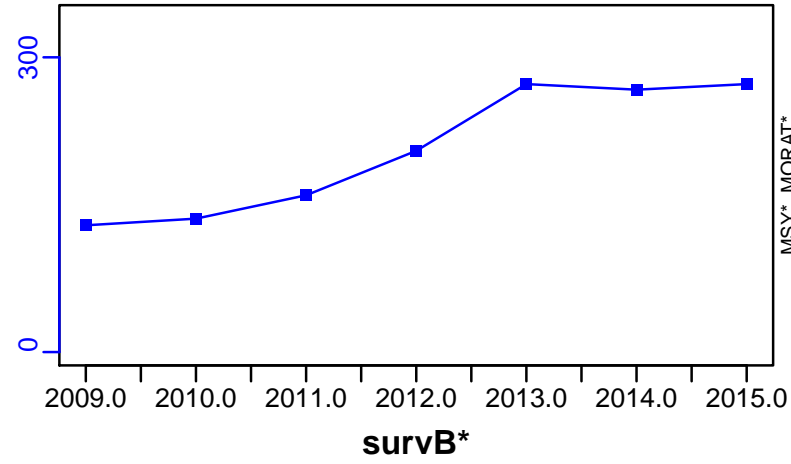
Recruits*



Thornback skate ICES 6 [TBSKAVI]

TL-MT, TC*, RecC* (2005–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Thornback skate ICES 7afg [TBSKAVIIafg]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVIIafg-1993-2015-ICESIMP2018
Area	ICES 7afg
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	893		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

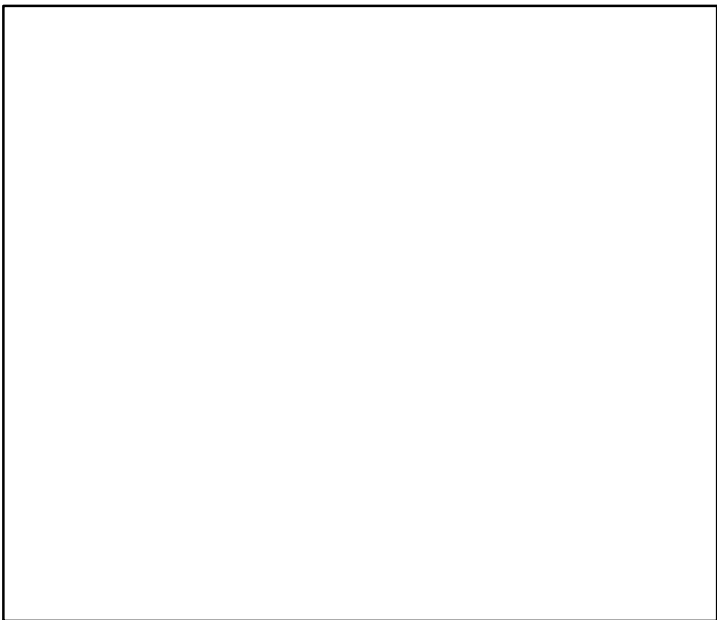
Kobe MSY*



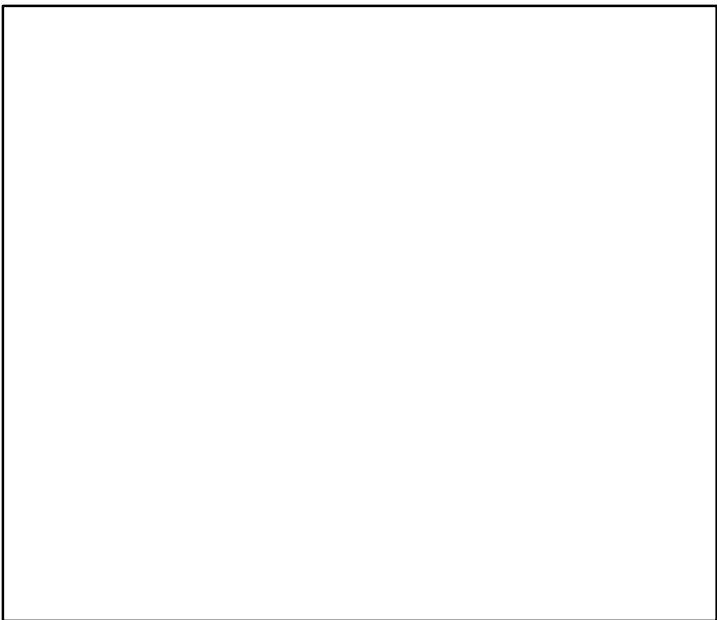
Kobe MGT*



Spawner Recruit*



Production*



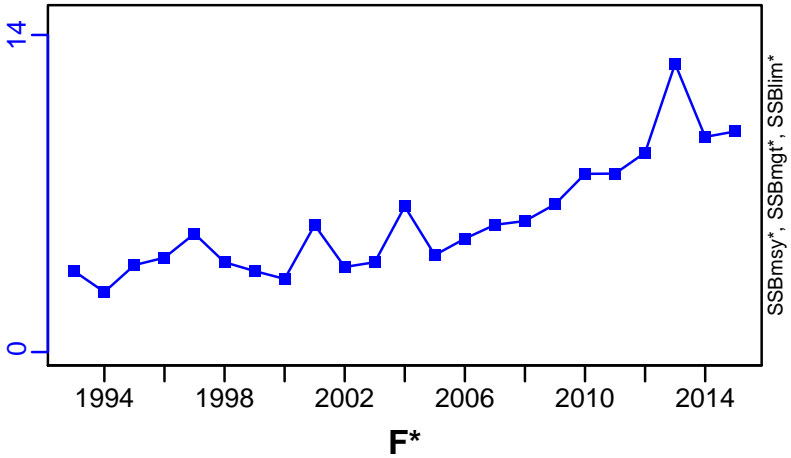
◆ Start Year ◆ End Year * No Data

Thornback skate ICES 7afg [TBSKAVIIafg]

TB*



SSB-index (1993–2015–ICESIMP2018)



TN *



F*



ER*

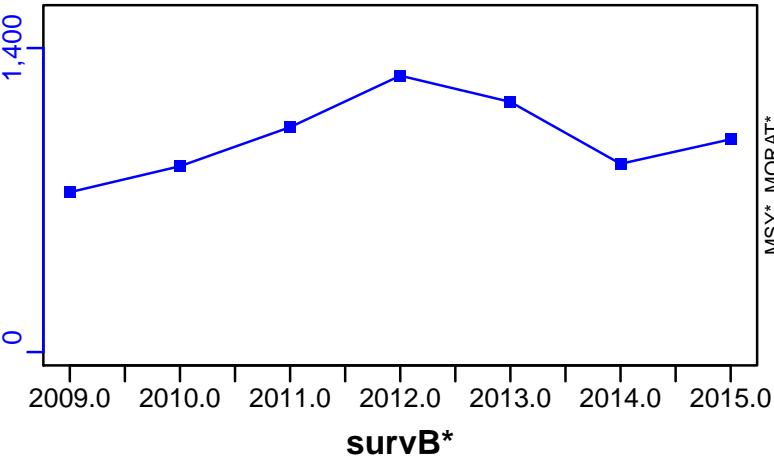


Recruits*



Thornback skate ICES 7afg [TBSKAVIIafg]

TL-MT, TC*, RecC* (1993-2015-ICESIMP2018)



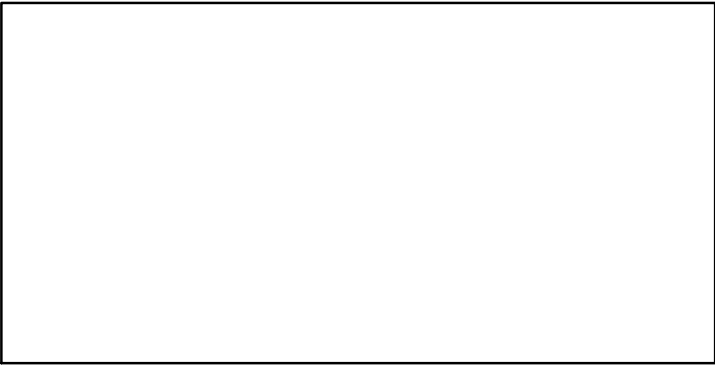
TAC*, Cpair*, Cadv*



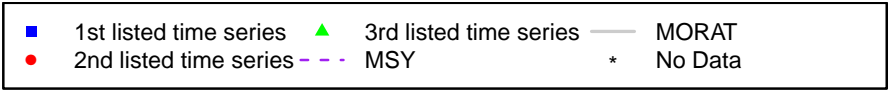
CPUE*



EFFORT*



CdivMSY*



Thornback skate Western English Channel [TBSKAVIle]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVIle-2009-2015-ICESIMP2018
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	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	2015	391		
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*

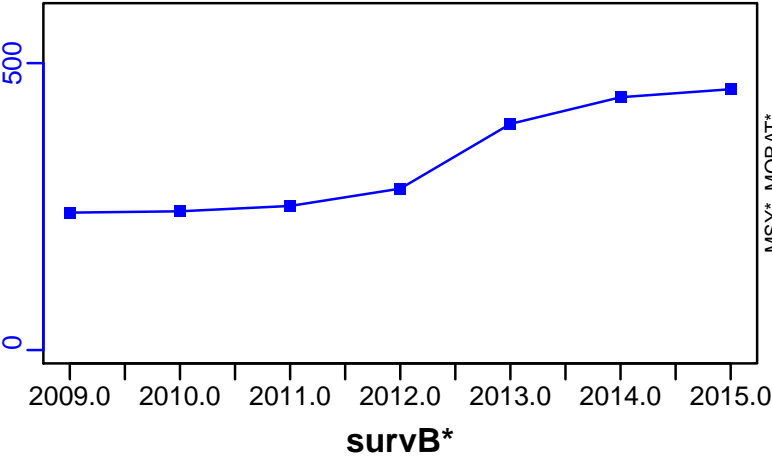


Recruits*

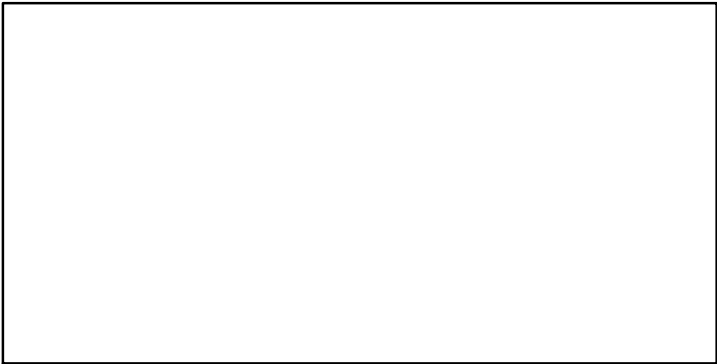


Thornback skate Western English Channel [TBSKAVIle]

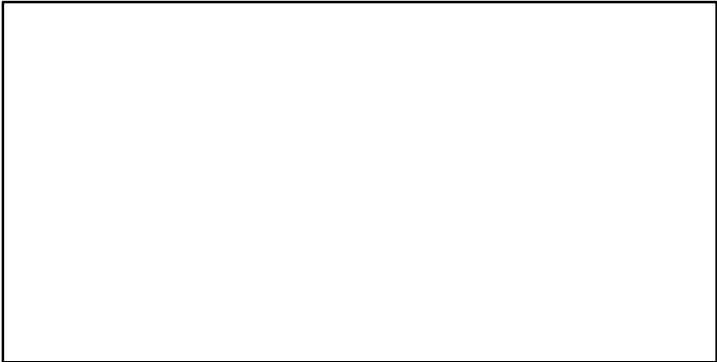
TL-MT, TC*, RecC* (2009–2015–ICESIMP2018)



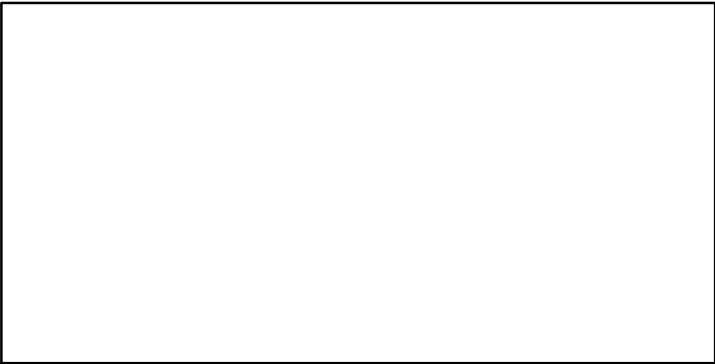
TAC*, Cpair*, Cadv*



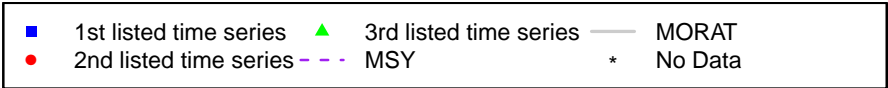
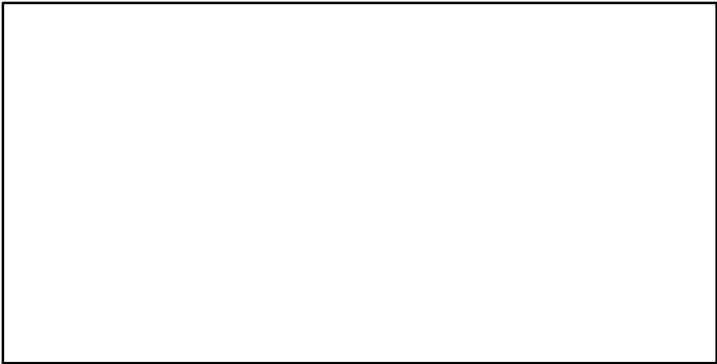
CPUE*



EFFORT*



CdivMSY*



Thornback skate Bay of Biscay [TBSKAVIII]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVIII-1999-2015-ICESIMP2018
Area	Bay of Biscay
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

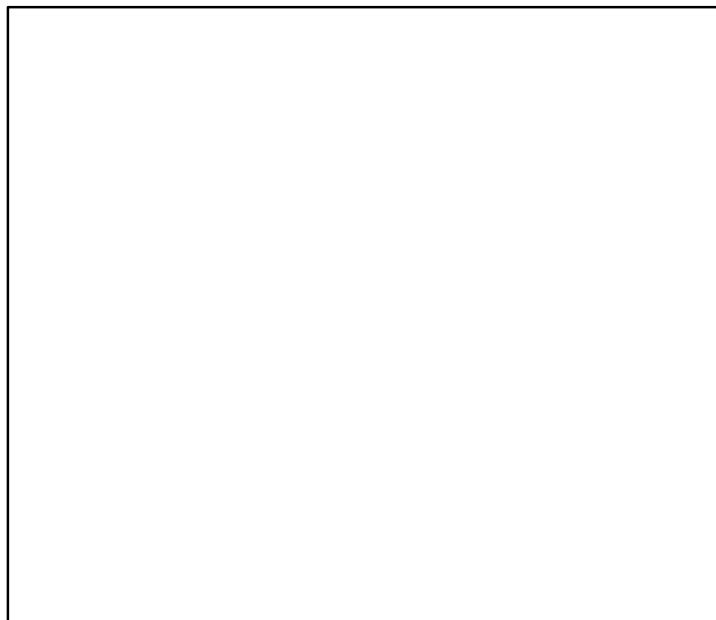
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.04	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	400		
TL	TL-MT	2015	395		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



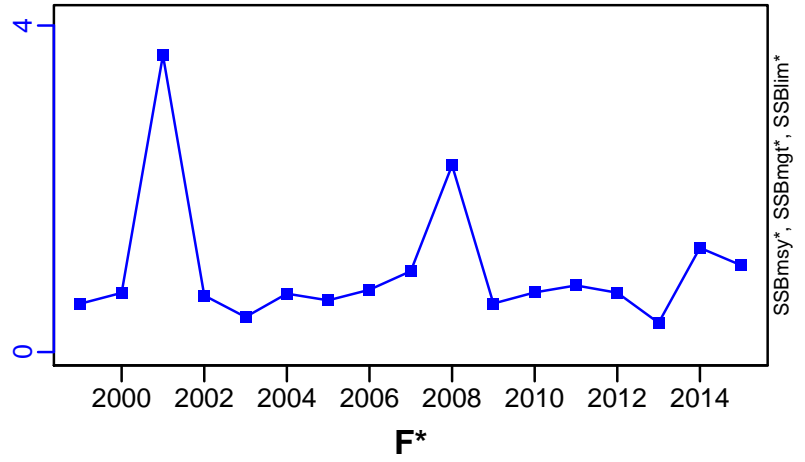
◆ Start Year ◆ End Year * No Data

Thornback skate Bay of Biscay [TBSKAVIII]

TB*



SSB-index (1999–2015–ICESIMP2018)



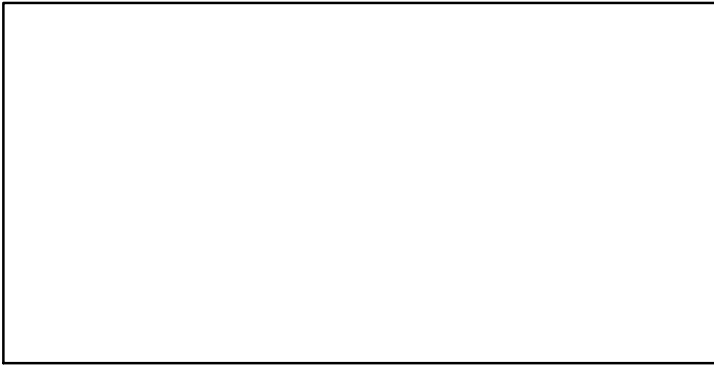
TN *



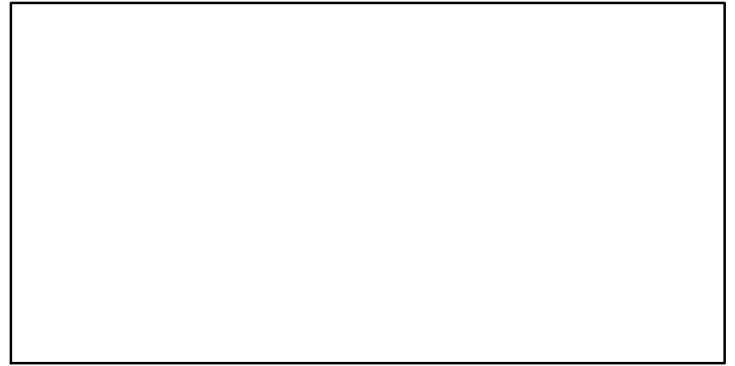
F*



ER*



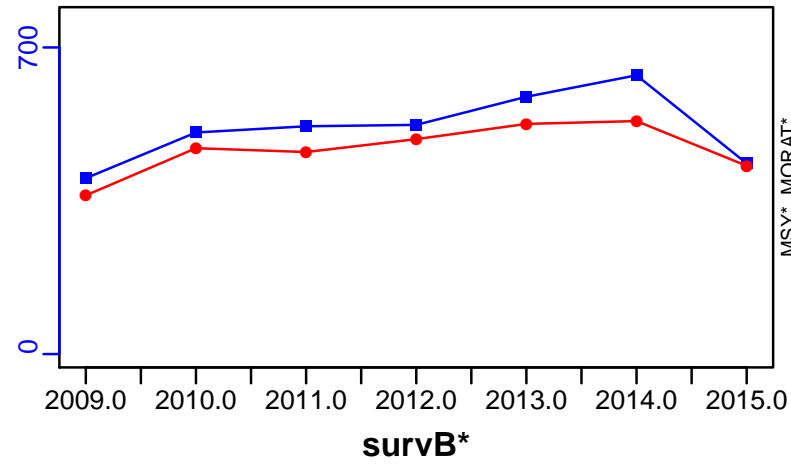
Recruits*



Thornback skate Bay of Biscay [TBSKAVIII]

TC-MT, TL-MT, RecC* (1999–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Tope shark Northeast Atlantic [TPSHARNEATL]

Metadata	
Scientific Name	Galeorhinus galeus
Current Assess ID	WGEF-TPSHARNEATL-2005-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 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	452		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

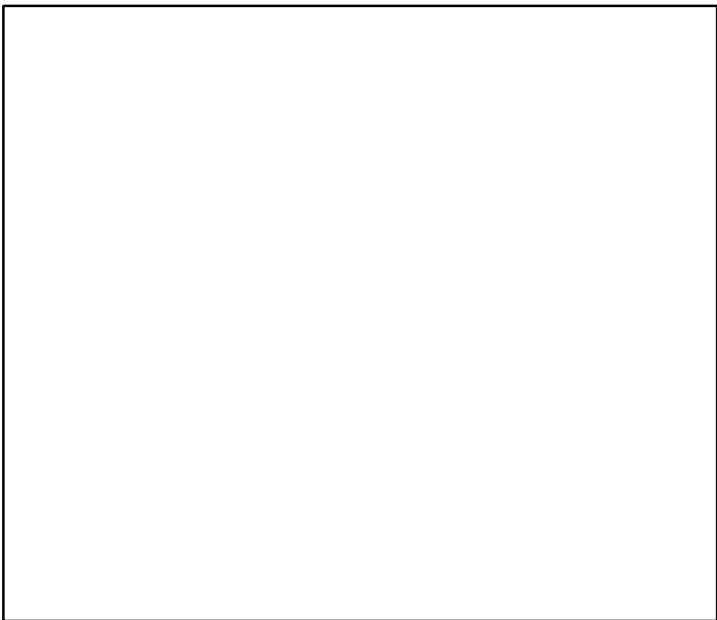
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Tope shark Northeast Atlantic [TPSHARNEATL]

TB*



SSB*



TN *



F*



ER*



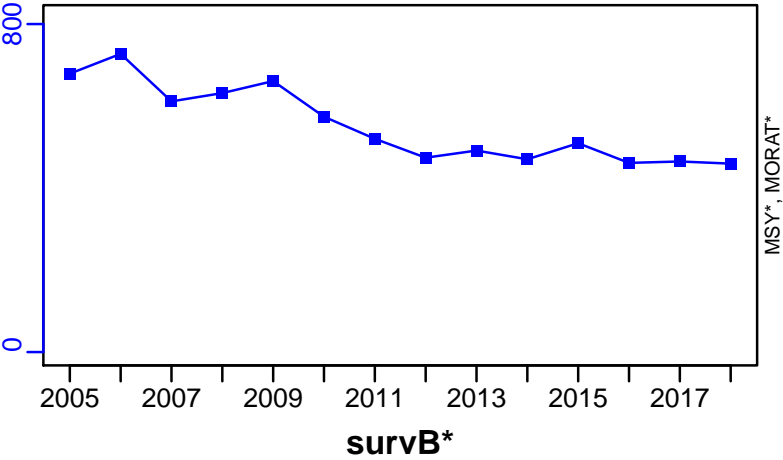
Recruits*



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

Tope shark Northeast Atlantic [TPSHARNEATL]

TL-MT, TC*, RecC* (2005–2018–ICESIMP2021)



TAC*, Cpair*, Cadv*



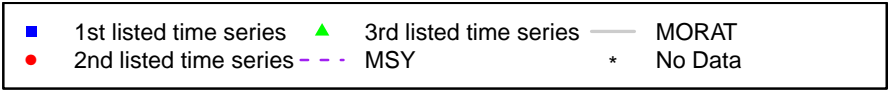
CPUE*



EFFORT*



CdivMSY*



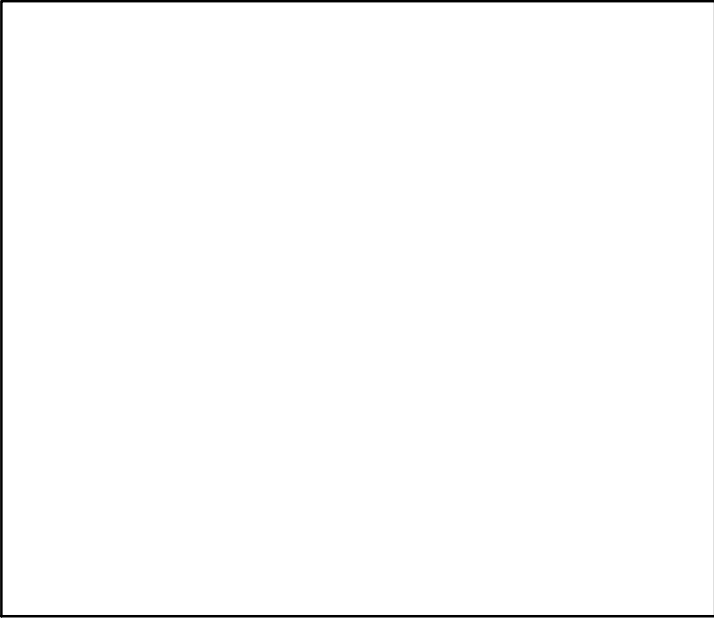
Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGBFAS-TUR2232-1970-2017-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2017

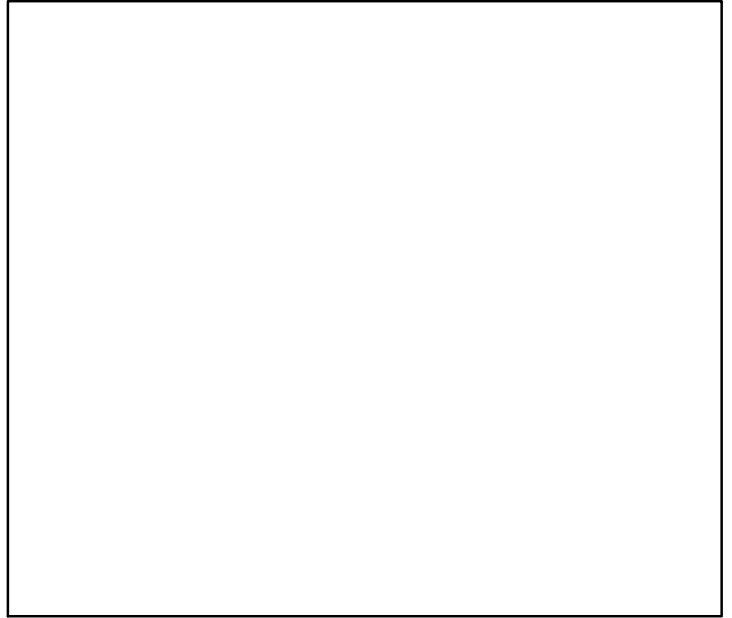
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	322		
TL	TL-MT	2017	264		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

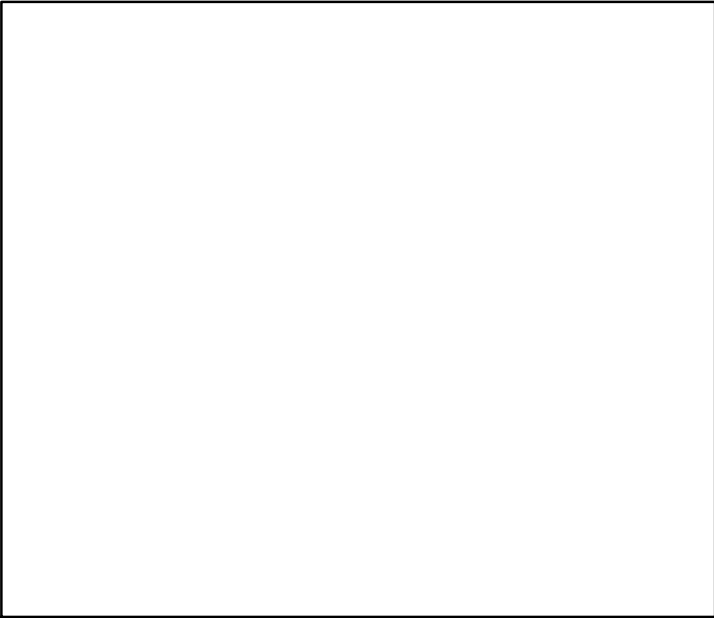
Kobe MSY*



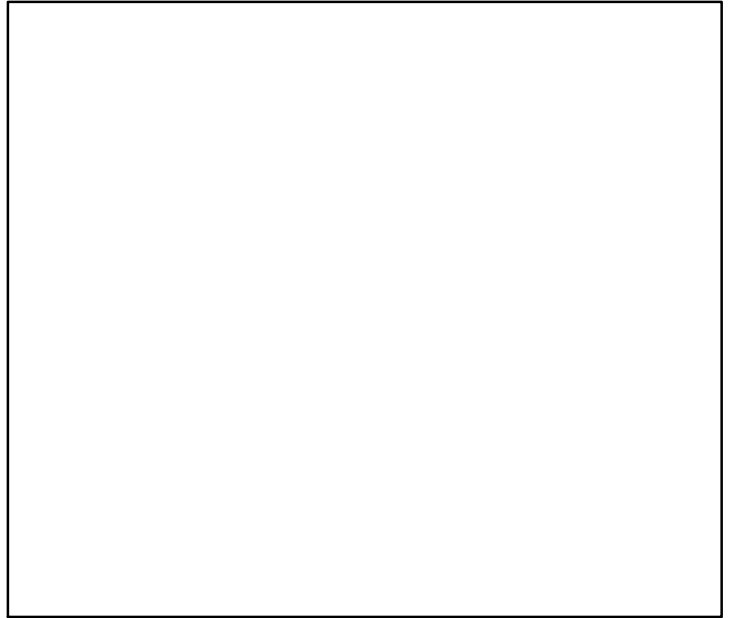
Kobe MGT*



Spawner Recruit*



Production*



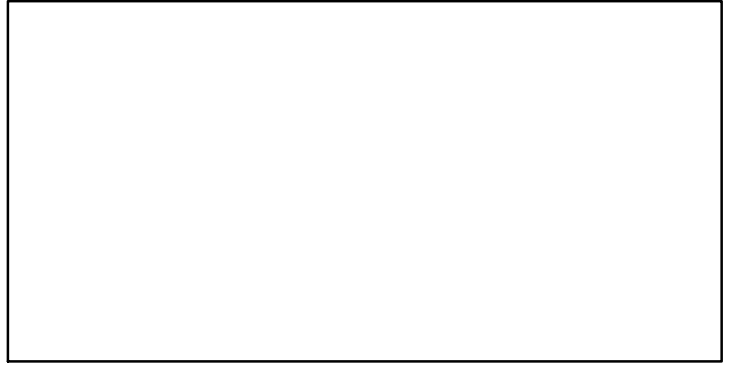
◆ Start Year ◆ End Year * No Data

Turbot Baltic Areas 22–32 [TUR2232]

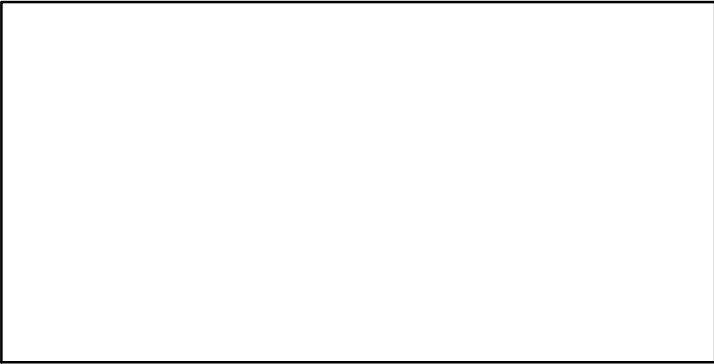
TB*



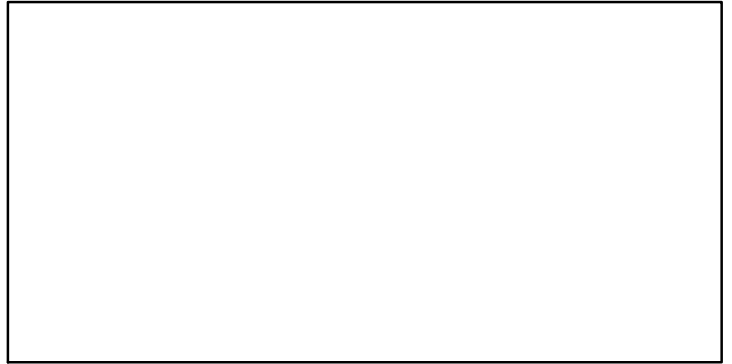
SSB*



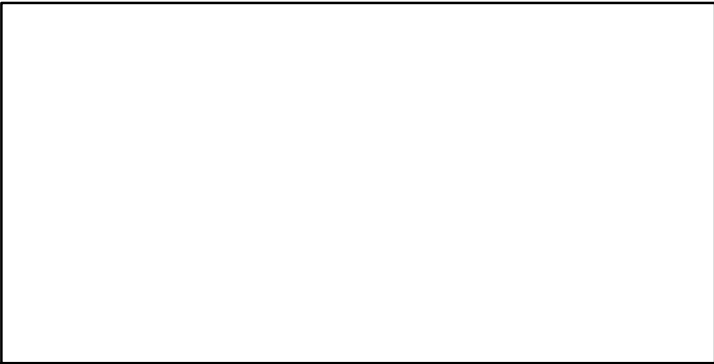
TN *



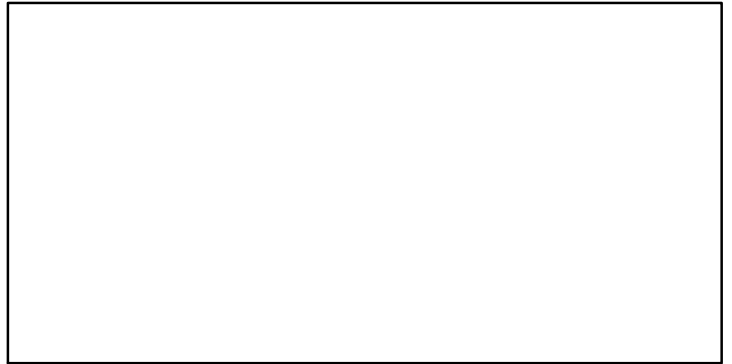
F*



ER*

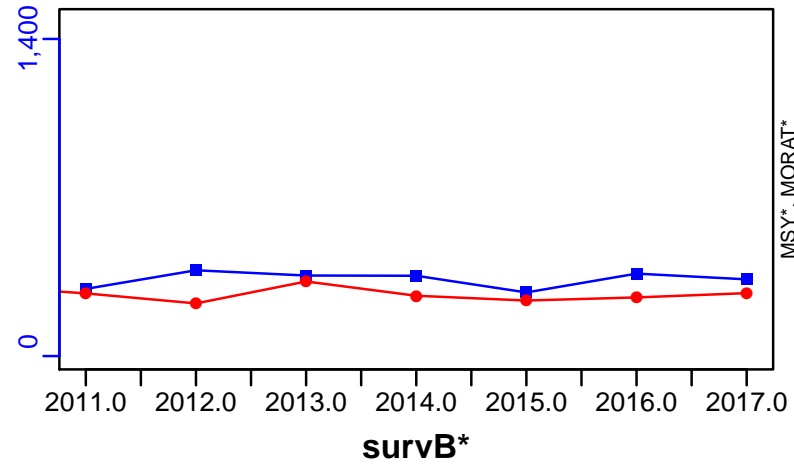


Recruits*



Turbot Baltic Areas 22–32 [TUR2232]

TC–MT, TL–MT, RecC* (1970–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

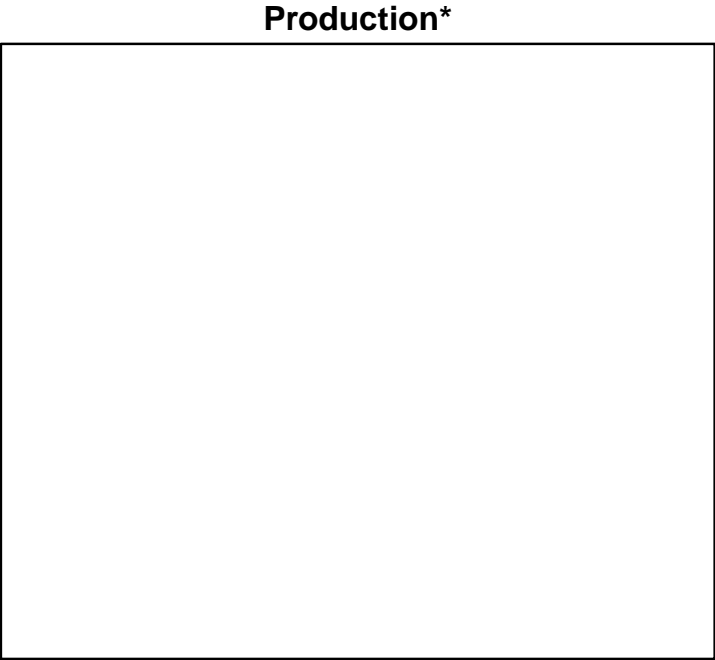
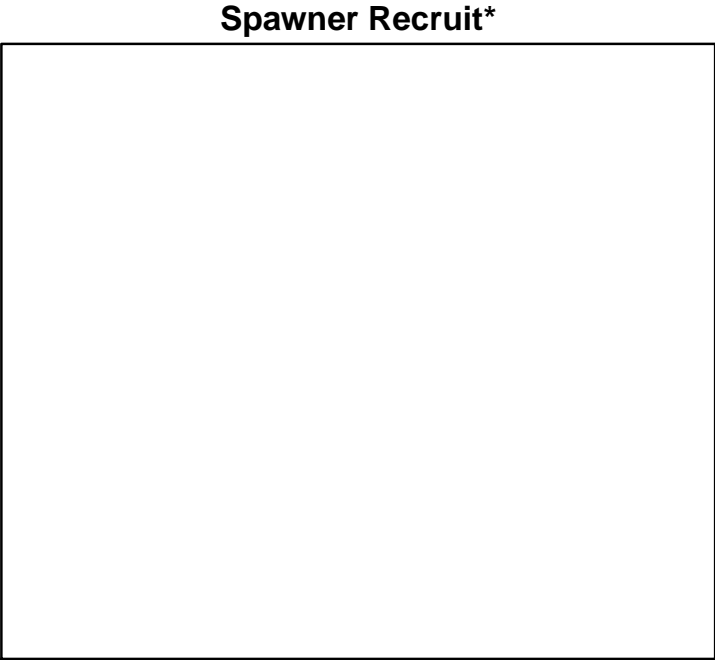
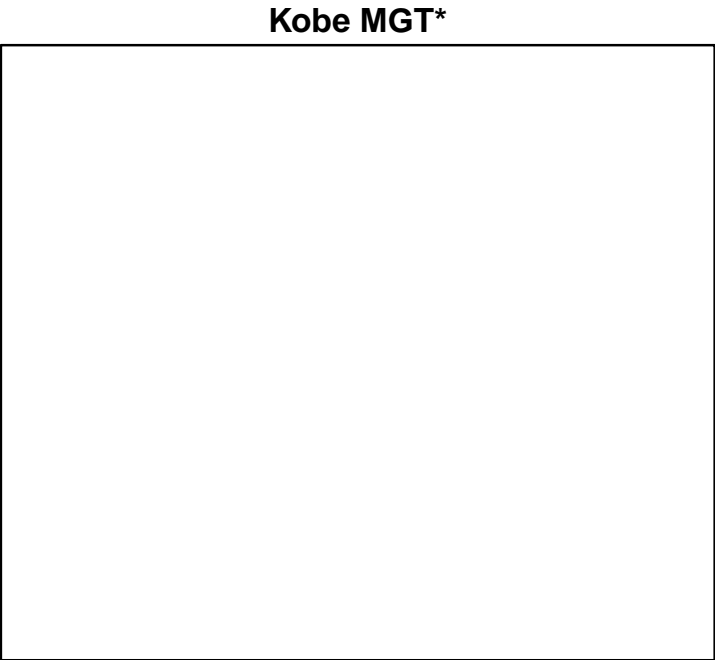
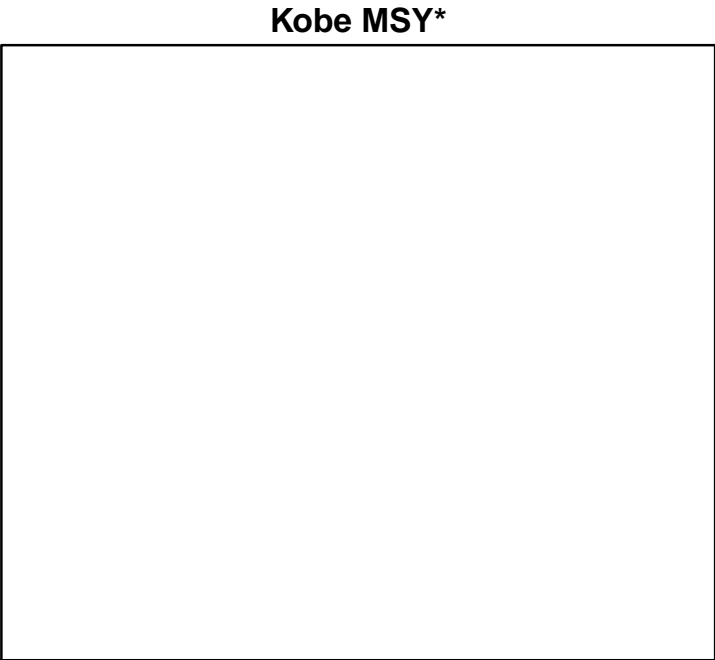


Turbot Kattegat and Skagerrak [TURIIIa]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIIIa-1950-2019-ICESIMP2021
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2019, 2016, 2015

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

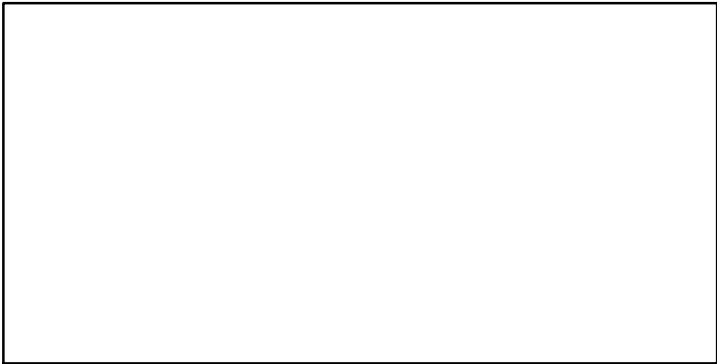
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	0.652	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	174		
TL	TL-MT	2019	153		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



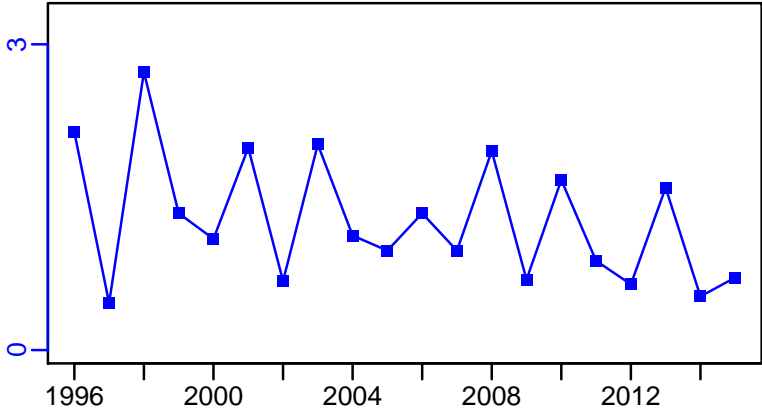
◆ Start Year ◆ End Year * No Data

Turbot Kattegat and Skagerrak [TURIIIa]

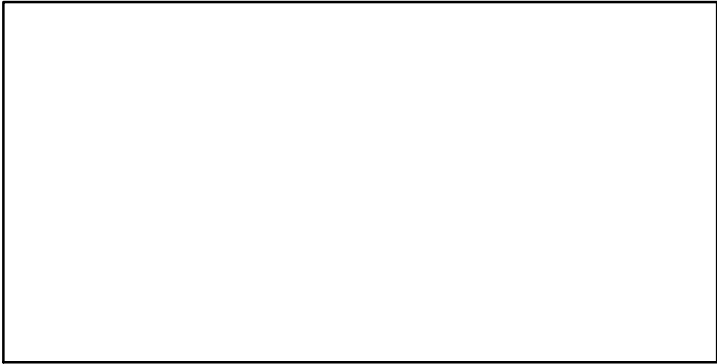
TB*



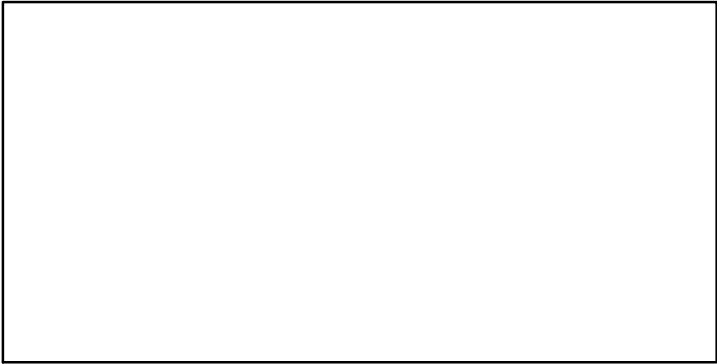
SSB-index (1964–2015–ICESIMP2018)



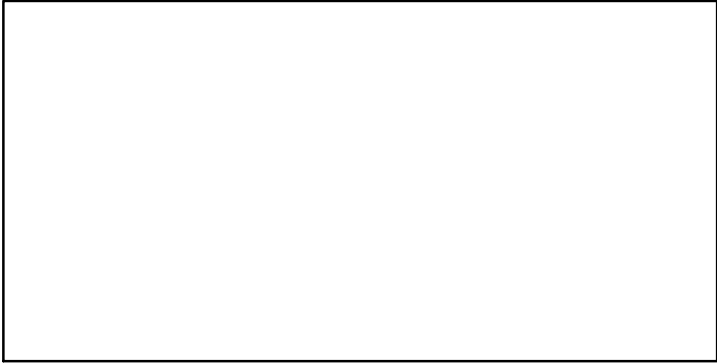
TN *



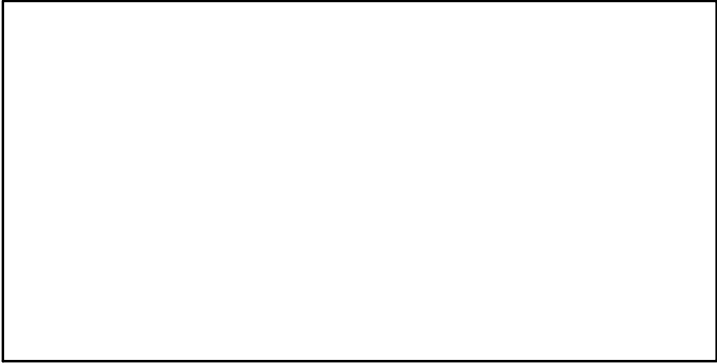
F*



ER*

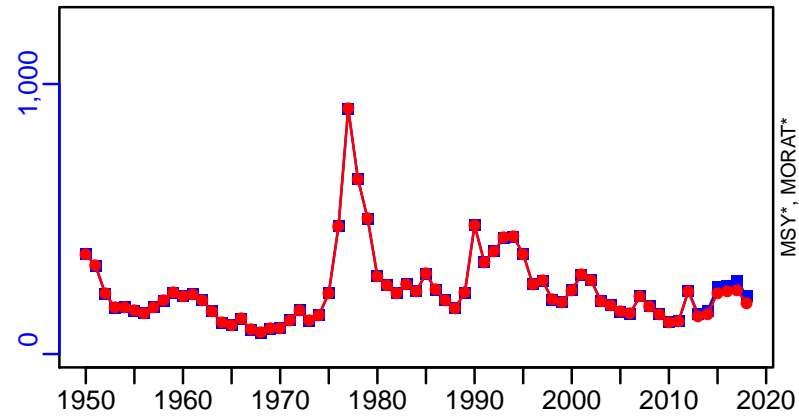


Recruits*



Turbot Kattegat and Skagerrak [TURIIIa]

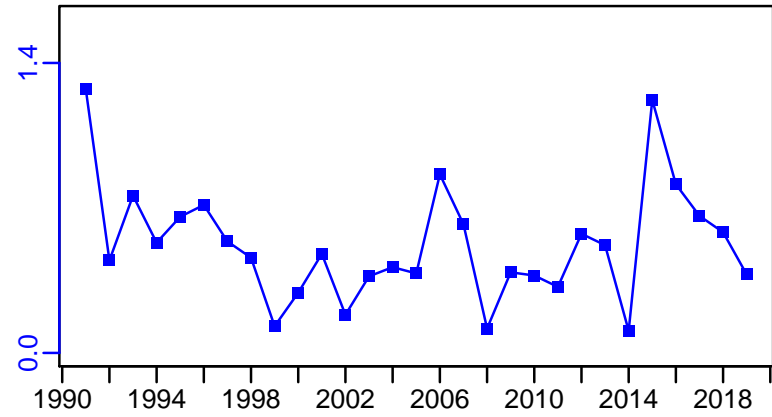
TC-MT, TL-MT, RecC* (1950–2019–ICESIMP2021)



TAC*, Cpair*, Cadv*



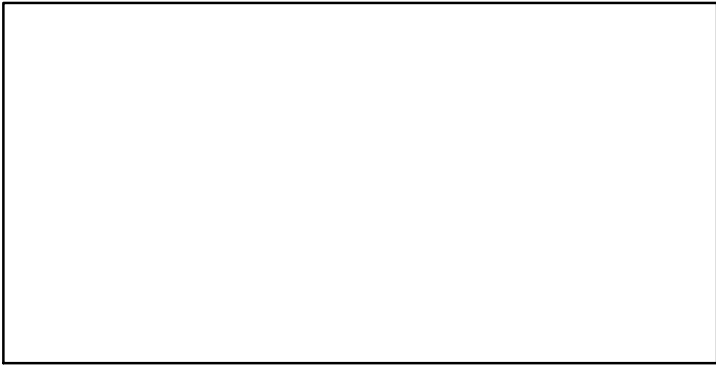
survB-index (1950–2019–ICESIMP2021)



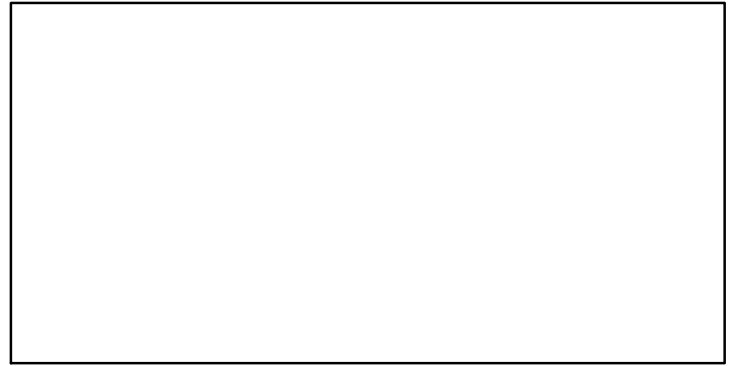
CPUE*



EFFORT*



CdivMSY*



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

Turbot North Sea [TURIV]

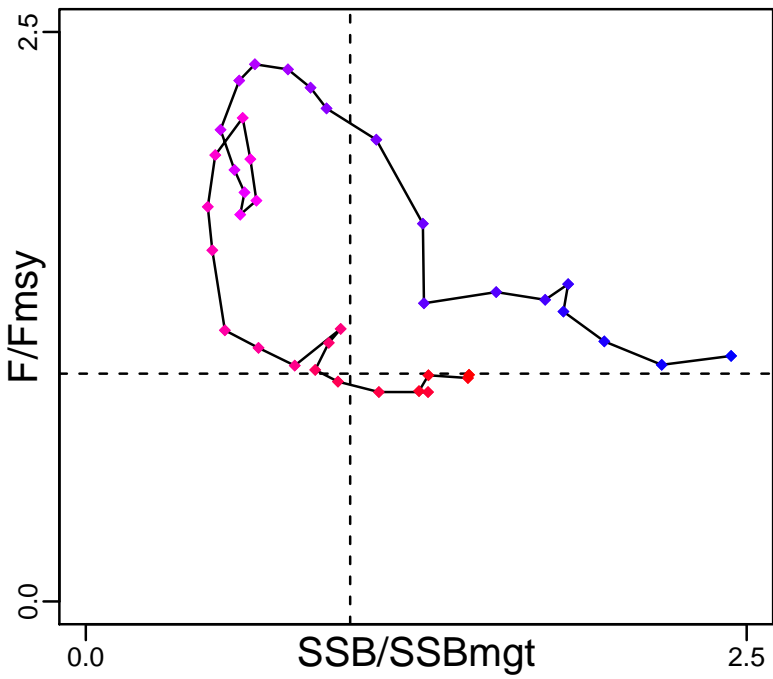
Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIV-1980-2019-ICESIMP2021
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2013, 2014, 2015, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.36
ERmsy	ERmsy-est-ratio	2019	0.617
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6353
Fmgt	Fmgt-1/yr	2019	0.36
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

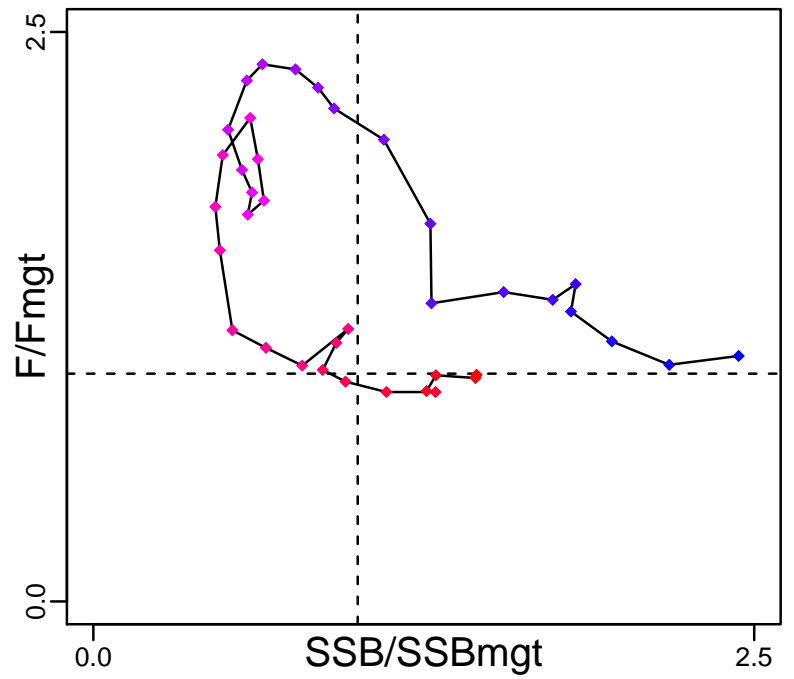
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	13,630	-	-
SSB	SSB-MT	2019	8523	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,492,019	-	1
F	F-1/yr	2019	0.358	-	2 to 6
ER	ER-calc-ratio	2019	0.266	-	-
TC	TC-MT	2019	3626		
TL	TL-MT	2019	3140		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.995		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.431		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.342		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.995		
ER/ERmgt	-	-	-		

Turbot North Sea [TURIV]

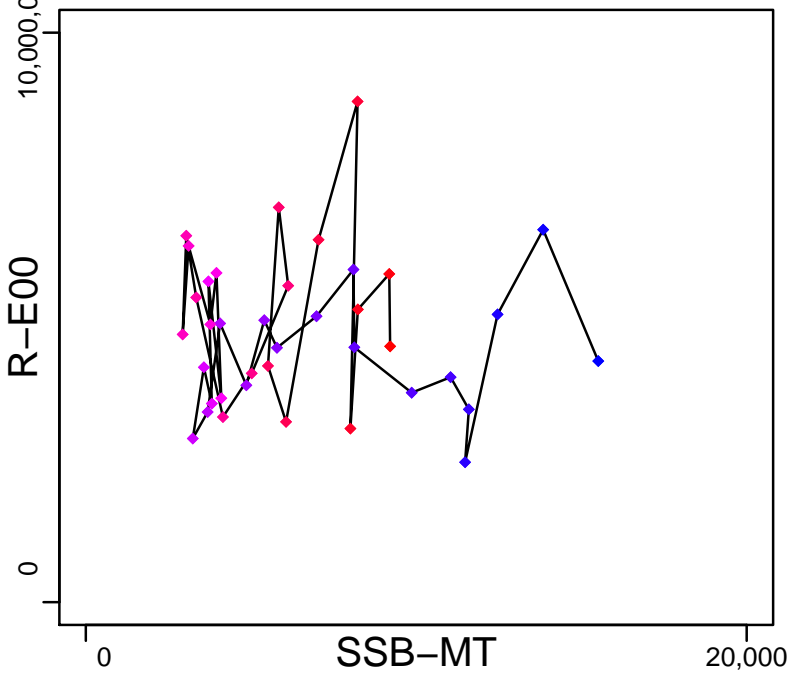
Kobe MSYpref (1980–2019–ICESIMP2021)



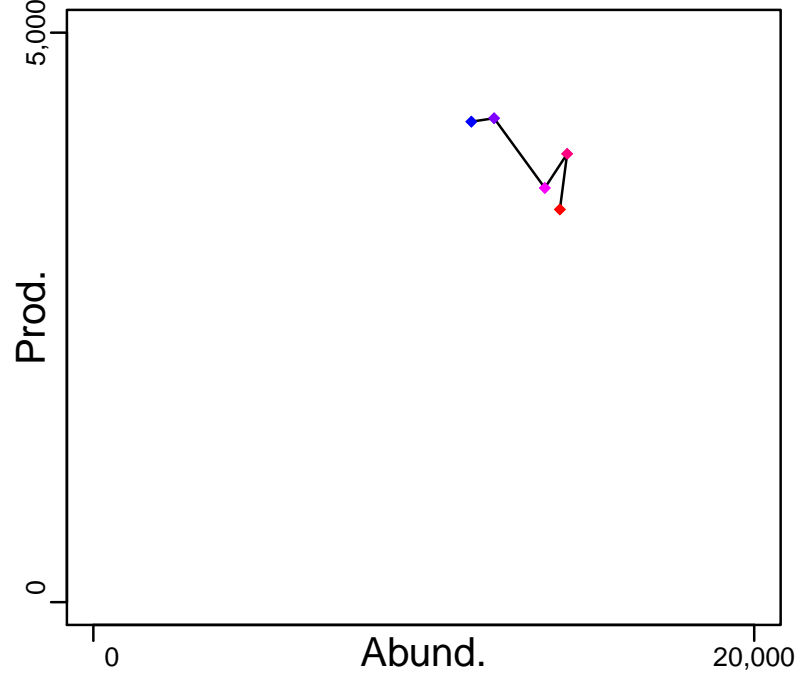
Kobe MGTpref (1980–2019–ICESIMP2021)



Spawner Recruit (1980–2019–ICESIMP2021)



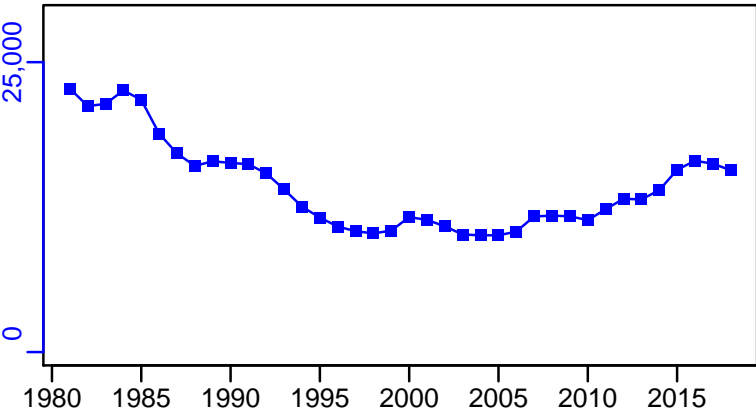
Production (1980–2019–ICESIMP2021)



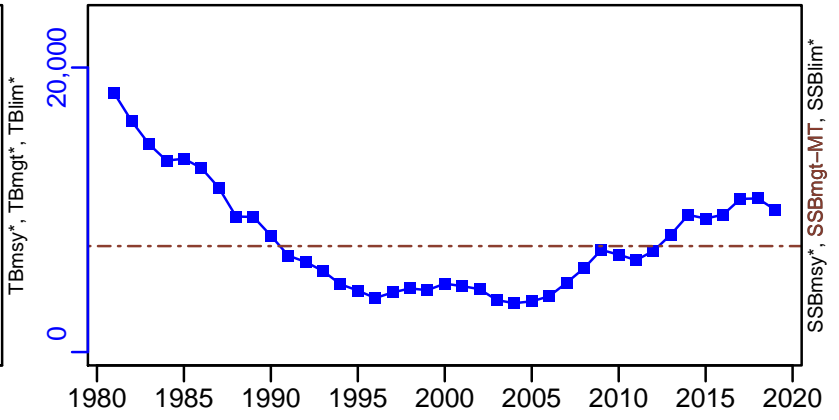
◆ Start Year ◆ End Year * No Data

Turbot North Sea [TURIV]

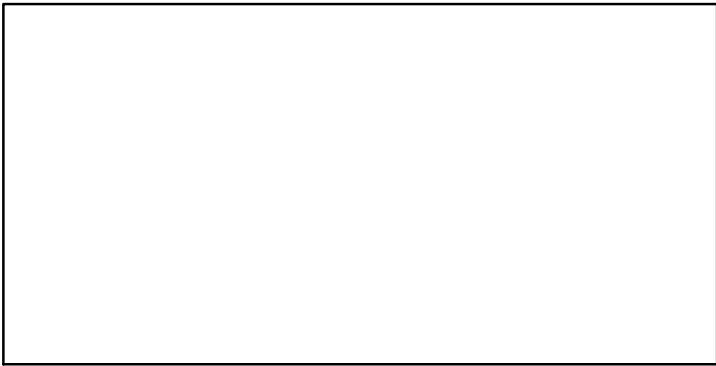
TB-MT (1980–2019–ICESIMP2021)



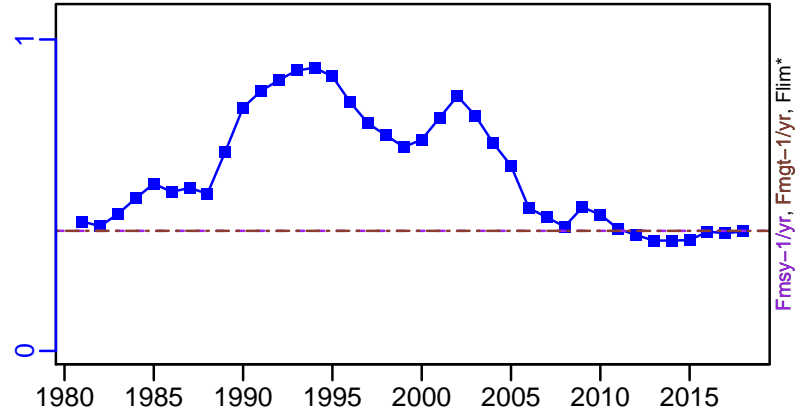
SSB-MT (1980–2019–ICESIMP2021)



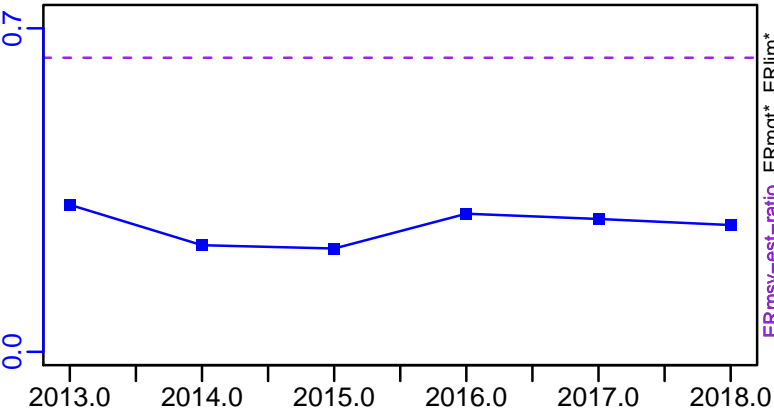
TN *



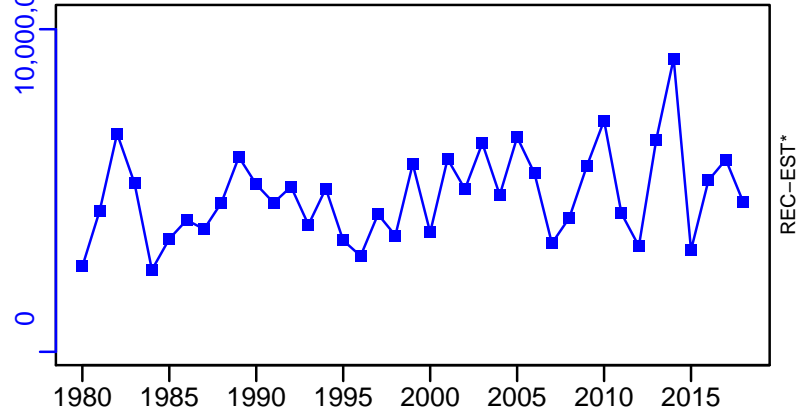
F–1/yr (1980–2019–ICESIMP2021)



ER–calc–ratio (1980–2019–ICESIMP2021)

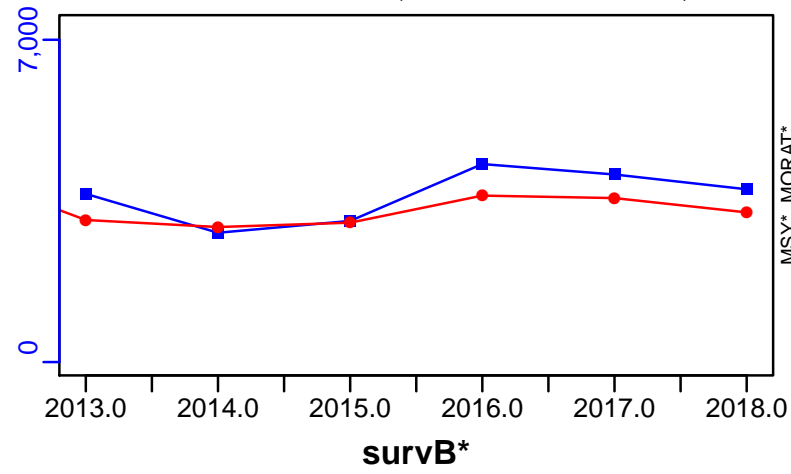


R–E00 (1980–2019–ICESIMP2021)



Turbot North Sea [TURIV]

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



TAC*, Cpair*, Cadv*



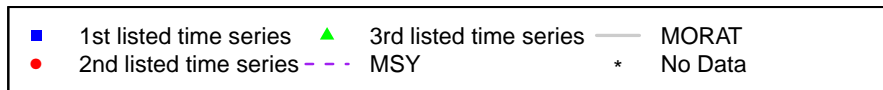
CPUE*



EFFORT*



CdivMSY*



Undulate ray ICES 7de [URAYVIIde]

Metadata	
Scientific Name	Raja undulata
Current Assess ID	WGEF-URAYVIIde-2008-2017-ICESIMP2018
Area	ICES 7de
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
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	SSB-index	2015	912	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	1380		
TL	TL-MT	2017	139		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



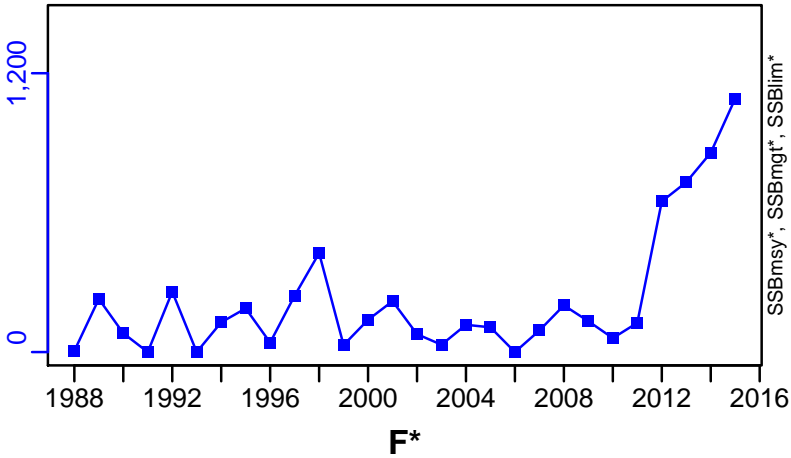
◆ Start Year ◆ End Year * No Data

Undulate ray ICES 7de [URAYVIIde]

TB*



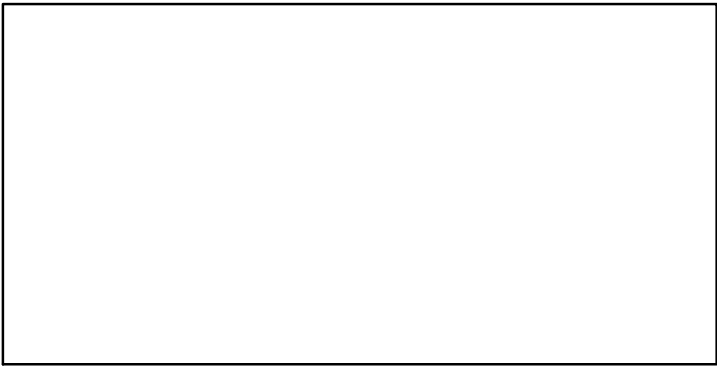
SSB-index (1988–2015–ICESIMP2018)



TN *



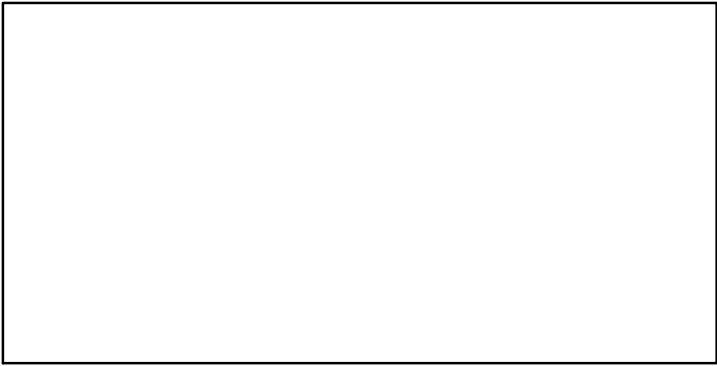
F*



ER*

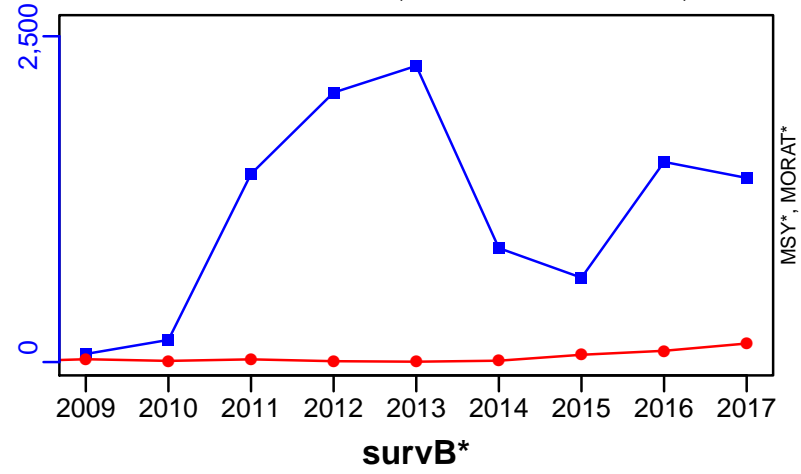


Recruits*



Undulate ray ICES 7de [URAYVIIde]

TC-MT, TL-MT, RecC* (2008–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Undulate ray ICES 8ab [URAYVIIIab]

Metadata	
Scientific Name	Raja undulata
Current Assess ID	WGEF-URAYVIIIab-2009-2017-ICESIMP2018
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
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	TC-MT	2017	336		
TL	TL-MT	2017	22		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

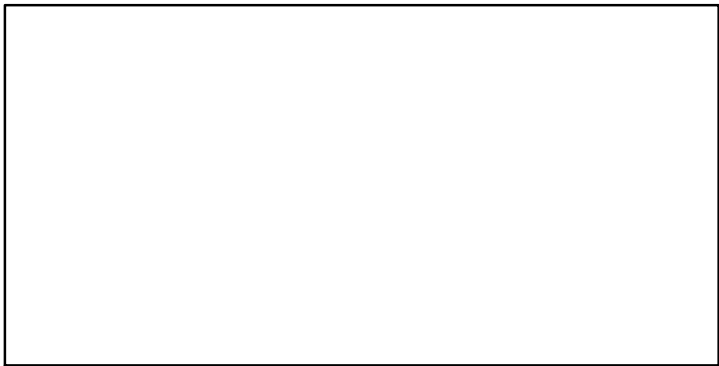


◆ Start Year ◆ End Year * No Data

TB*



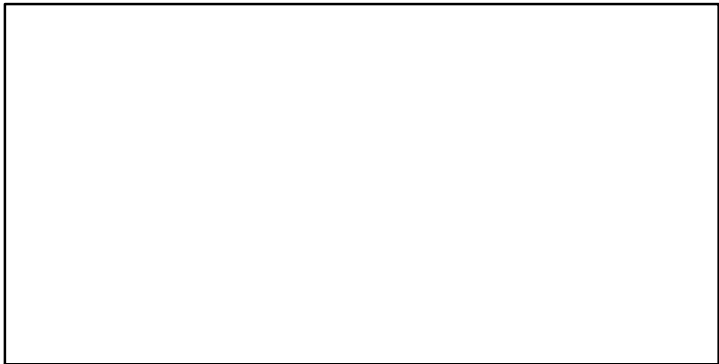
SSB*



TN *



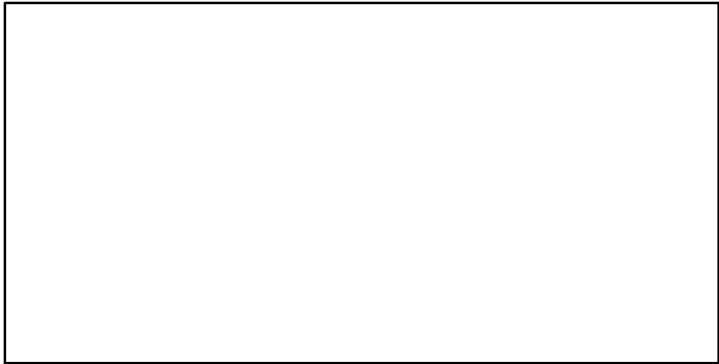
F*



ER*

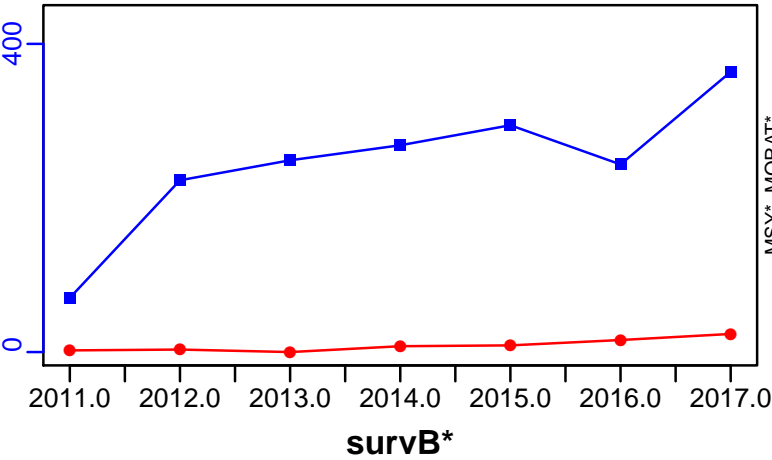


Recruits*



Undulate ray ICES 8ab [URAYVIIIab]

TC-MT, TL-MT, RecC* (2009–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



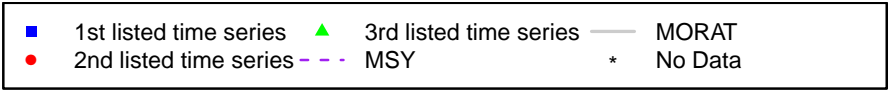
CPUE*



EFFORT*



CdivMSY*



White anglerfish ICES 8c-9a [WANGLVIIIc-IXa]

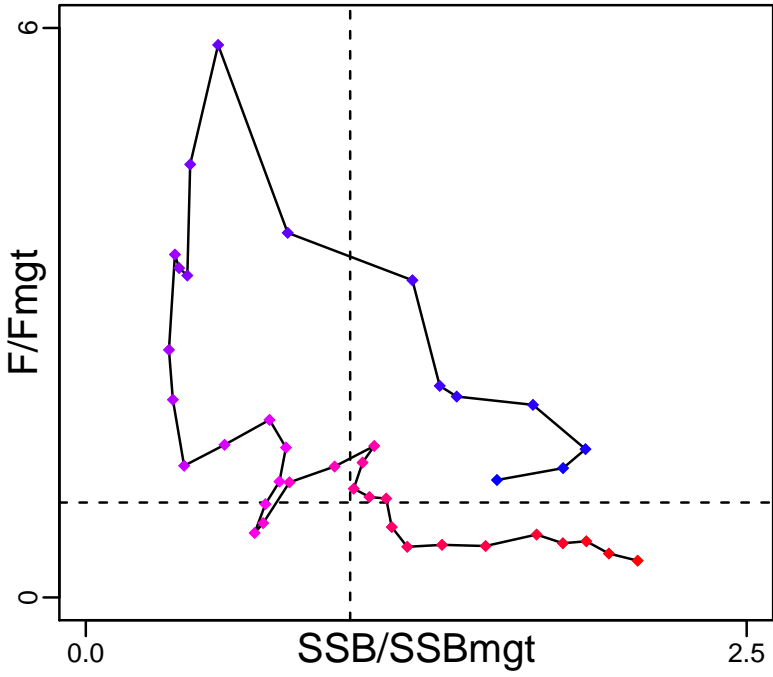
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVIIIc-IXa-1980-2019-ICESIMP2021
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	27,703
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.24
ERmsy	ERmsy-est-ratio	2019	0.455
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	6283
Fmgt	Fmgt-1/yr	2019	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	6271
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1993
Flim	Flim-1/yr	2018	0.56
ERlim	-	-	-

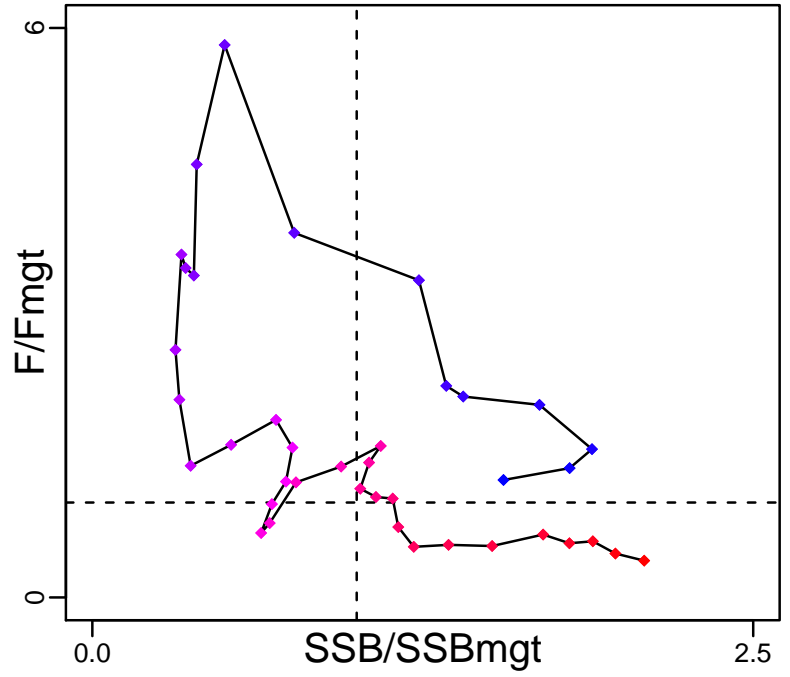
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	14,645	-	-
SSB	SSB-MT	2019	13,477	-	-
TN	-	-	-	-	-
R	R-E00	2019	712,159	-	0
F	F-1/yr	2019	0.093	-	-
ER	ER-calc-ratio	2019	0.078	-	-
TC	-	-	-		
TL	TL-MT	2019	1153		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.339		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.525		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.172		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.145		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.388		
ER/ERmgt	-	-	-		

White anglerfish ICES 8c-9a [WANGLVIIIc-IXa]

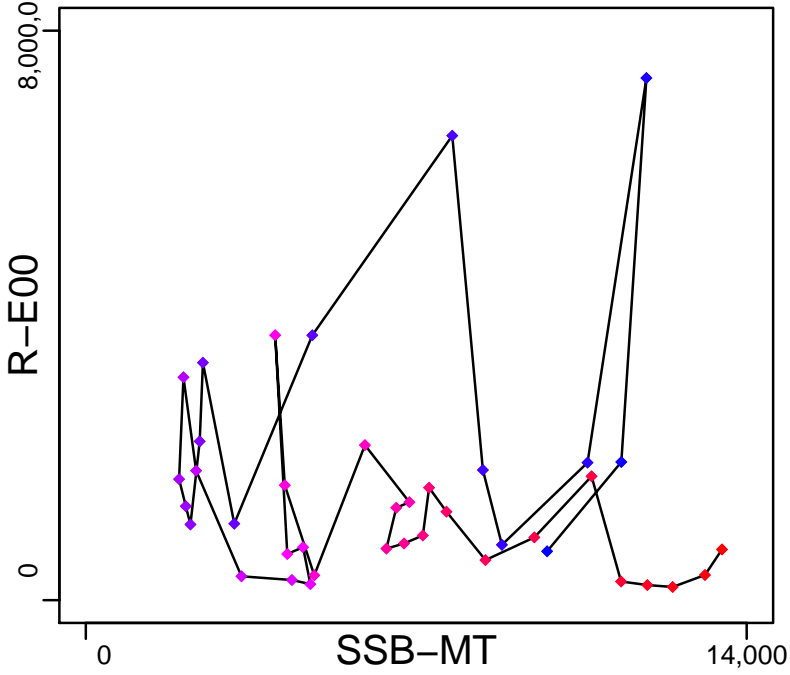
Kobe MSYpref (1980-2019-ICESIMP2021)



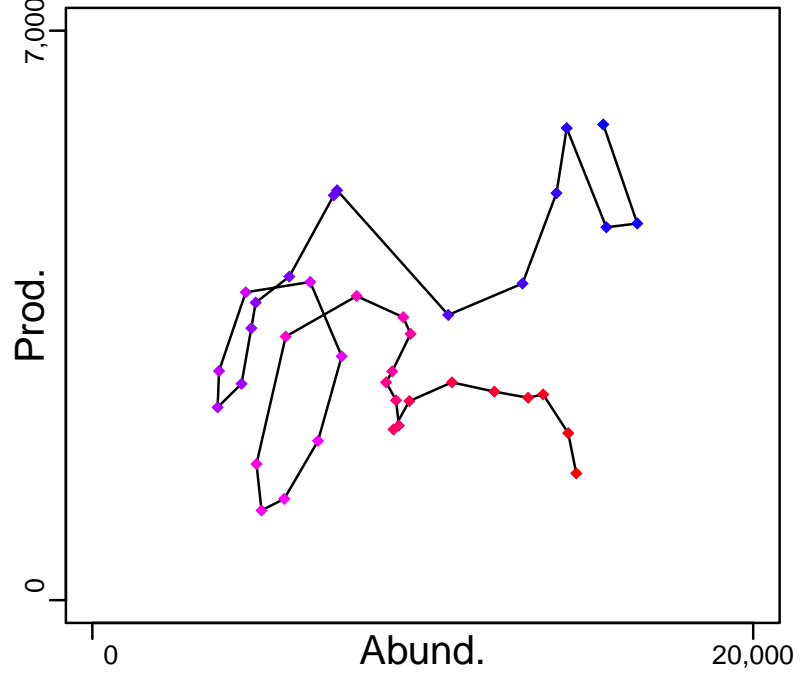
Kobe MGTpref (1980-2019-ICESIMP2021)



Spawner Recruit (1980-2019-ICESIMP2021)



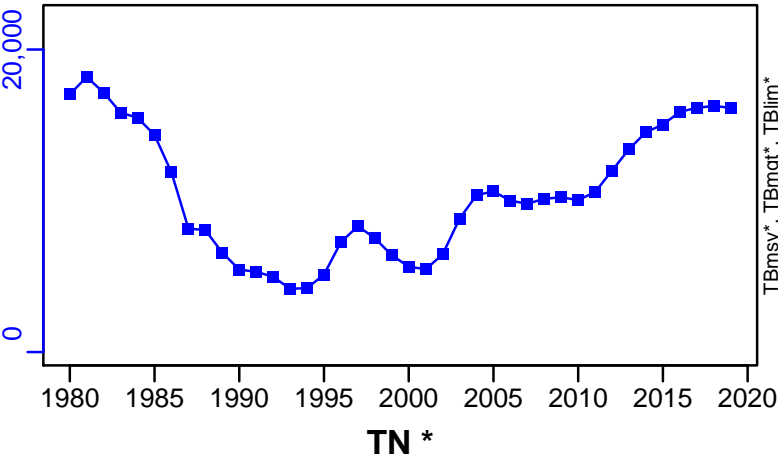
Production (1980-2019-ICESIMP2021)



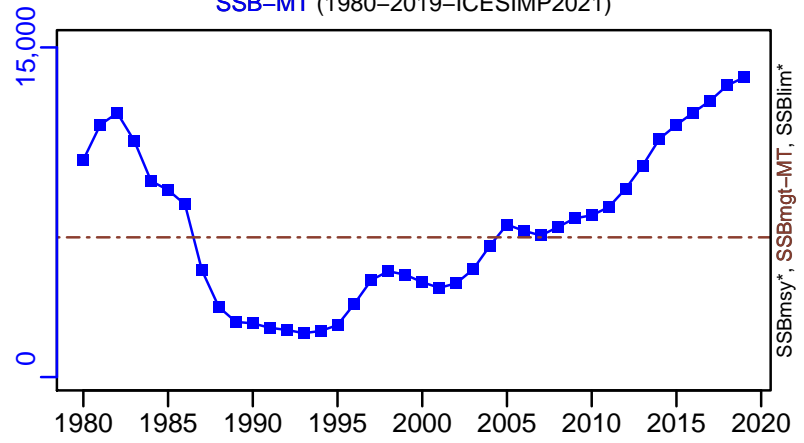
◆ Start Year ◆ End Year * No Data

White anglerfish ICES 8c-9a [WANGLVIIIc-IXa]

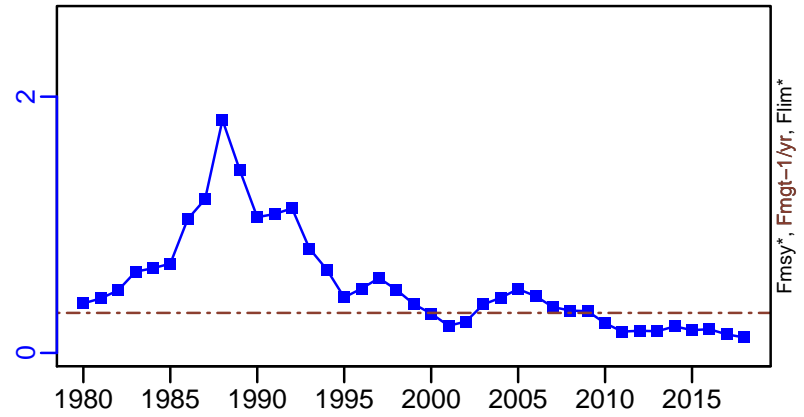
TB-MT (1980-2019-ICESIMP2021)



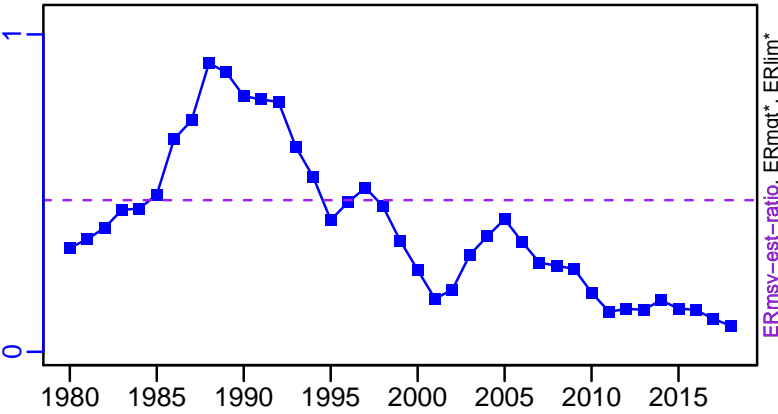
SSB-MT (1980-2019-ICESIMP2021)



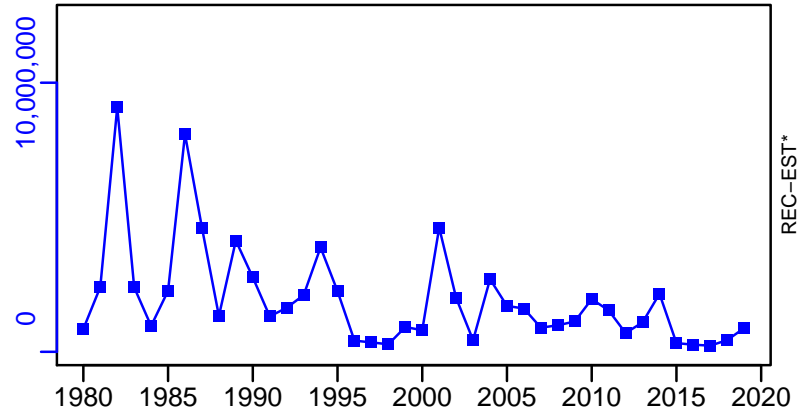
F-1/yr (1980-2019-ICESIMP2021)



ER-calc-ratio (1980-2019-ICESIMP2021)

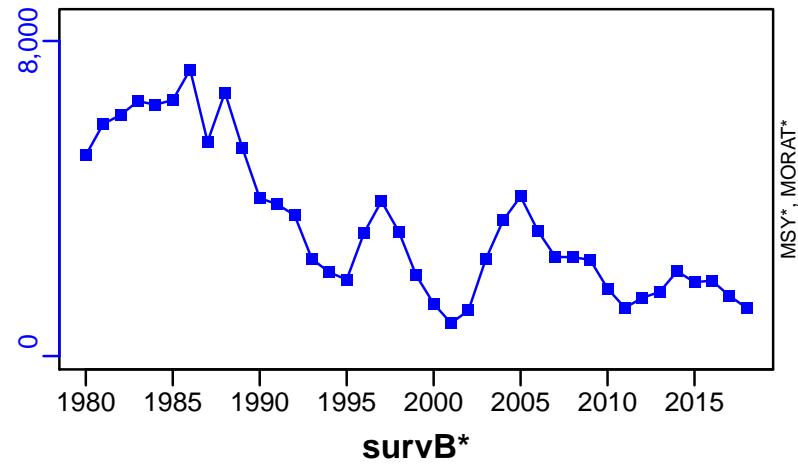


R-E00 (1980-2019-ICESIMP2021)



White anglerfish ICES 8c–9a [WANGLVIIIc–IXa]

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



TAC*, Cpair*, Cadv*



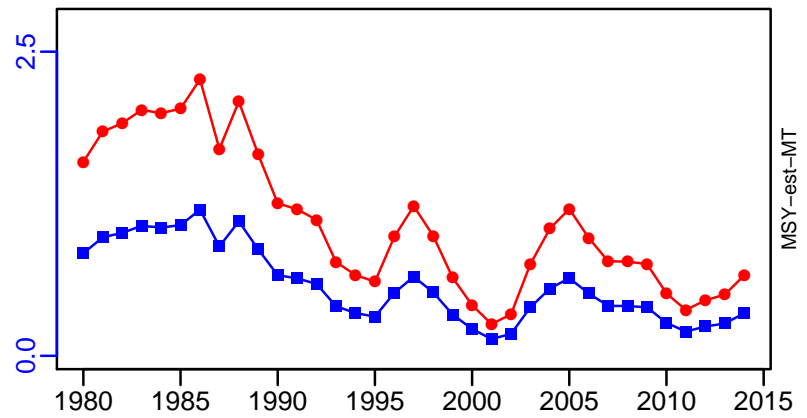
CPUE*



EFFORT*



TL–MT/MSY–est–MT, CdivMEANC–ratio, (1980–2015–ICESIMP2016)



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

White anglerfish ICES 7-8abd [WANGLVII-VIIIabd]

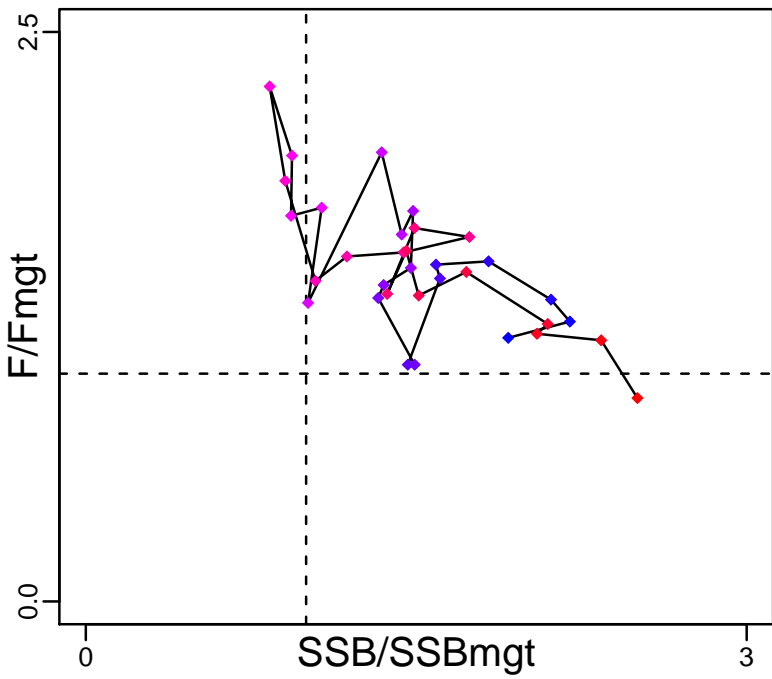
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVII-VIIIabd-1986-2019-ICESIMP2021
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.28
ERmsy	ERmsy-est-ratio	2019	0.713
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	22,278
Fmgt	Fmgt-1/yr	2019	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	16,032
Flim	Flim-1/yr	2018	0.53
ERlim	-	-	-

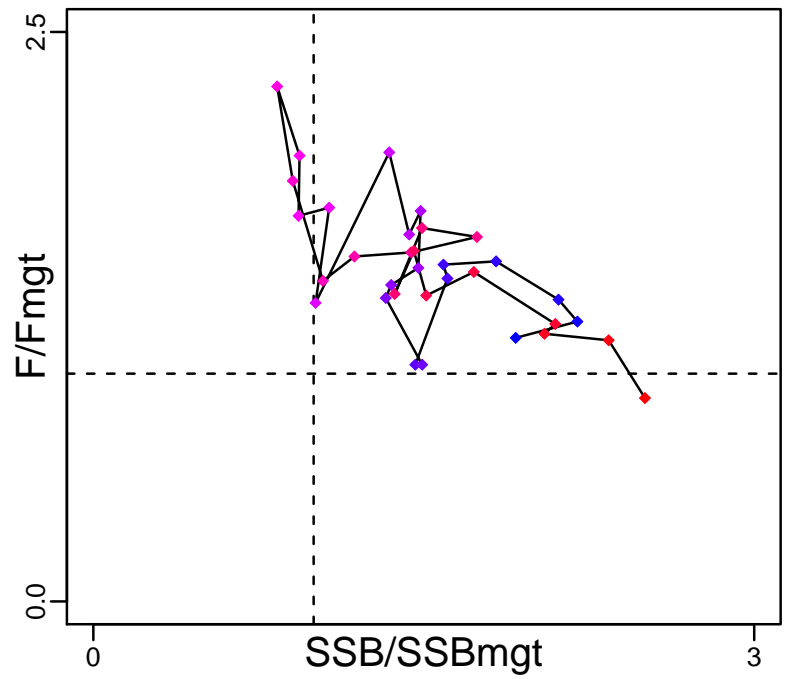
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	115,872	-	-
SSB	SSB-MT	2019	72,848	-	-
TN	-	-	-	-	-
R	R-E00	2019	32,059,000	-	0
F	F-1/yr	2019	0.25	-	3 to 6
ER	ER-calc-ratio	2019	0.205	-	-
TC	TC-MT	2019	23,768		
TL	TL-MT	2019	22,371		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.004		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.288		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	3.27		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.893		
ER/ERmgt	-	-	-		

White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

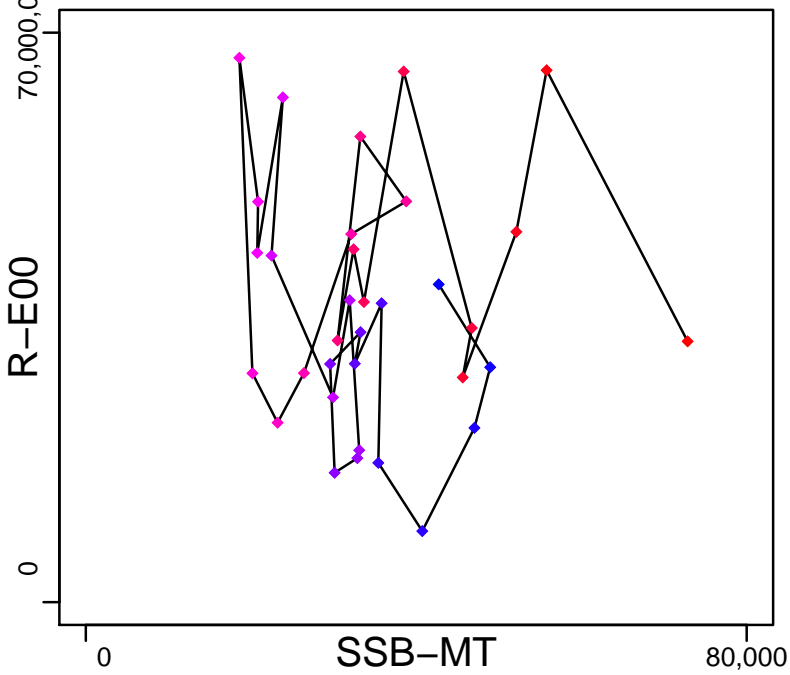
Kobe MSYpref (1986–2019–ICESIMP2021)



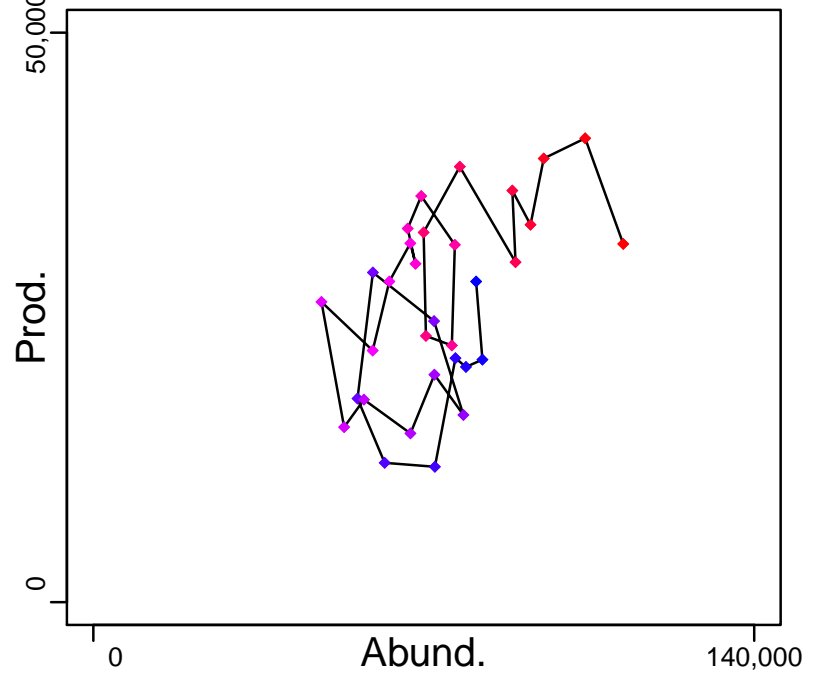
Kobe MGTpref (1986–2019–ICESIMP2021)



Spawner Recruit (1986–2019–ICESIMP2021)



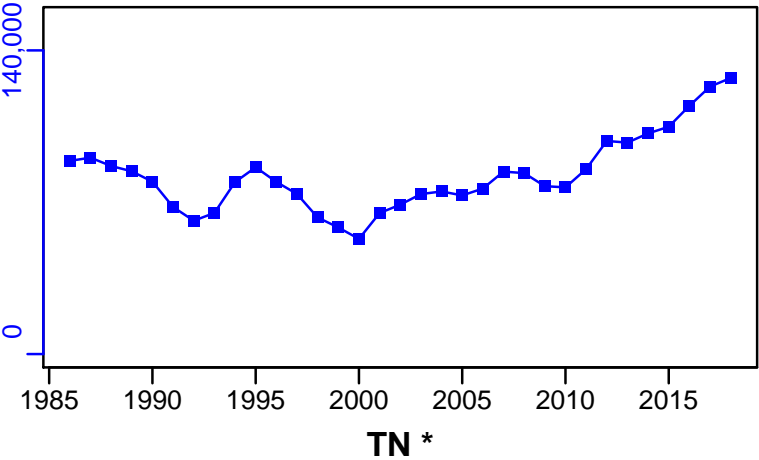
Production (1986–2019–ICESIMP2021)



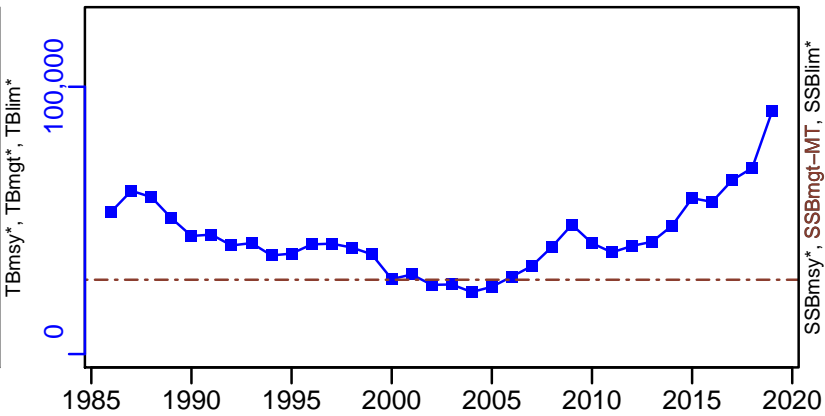
◆ Start Year ◆ End Year * No Data

White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

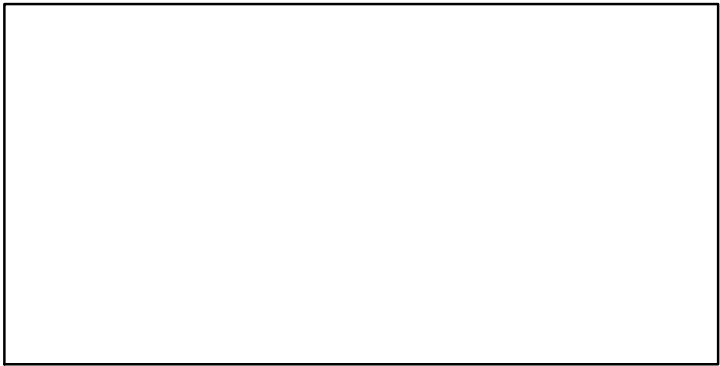
TB-MT (1986–2019–ICESIMP2021)



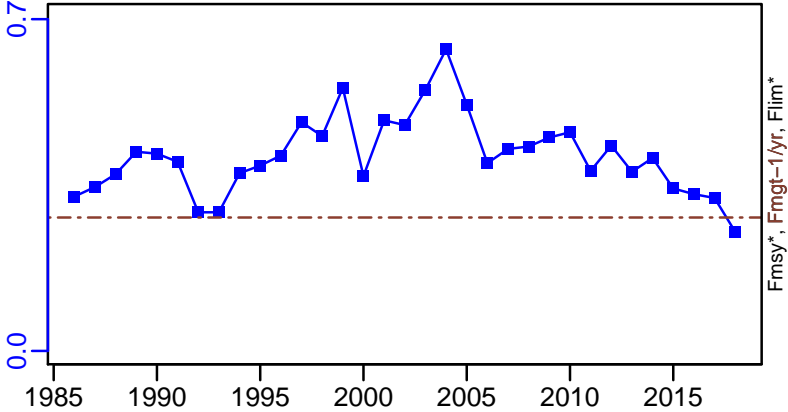
SSB-MT (1986–2019–ICESIMP2021)



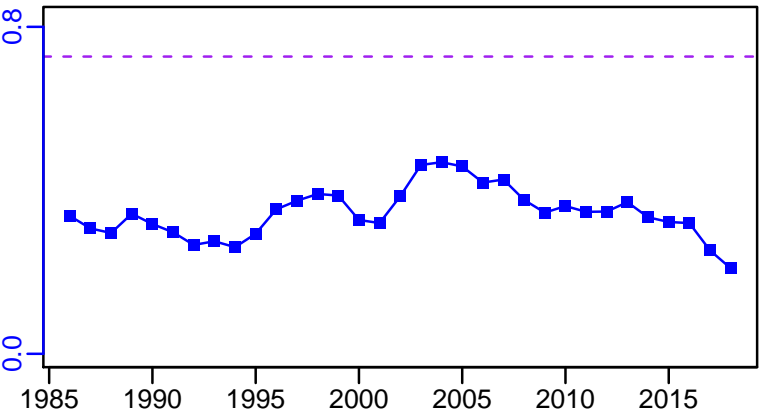
TN *



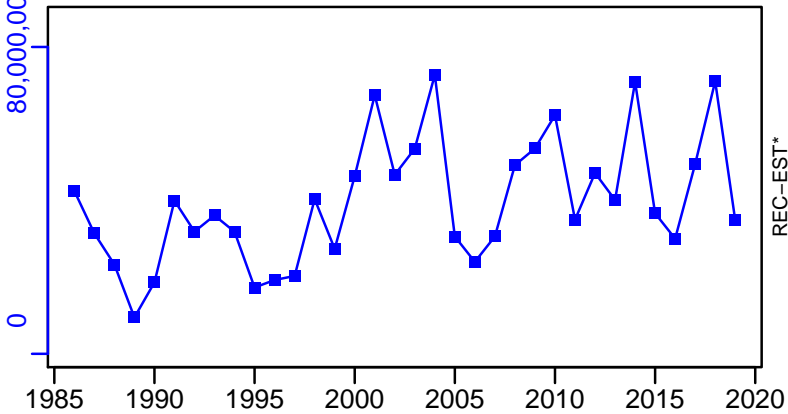
F-1/yr (1986–2019–ICESIMP2021)



ER-calc-ratio (1986–2019–ICESIMP2021)

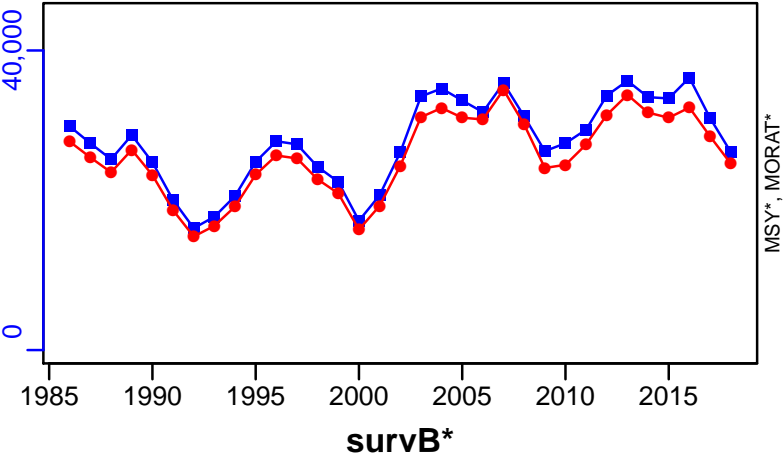


R-E00 (1986–2019–ICESIMP2021)



White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

TC–MT, TL–MT, RecC* (1986–2019–ICESIMP2021)



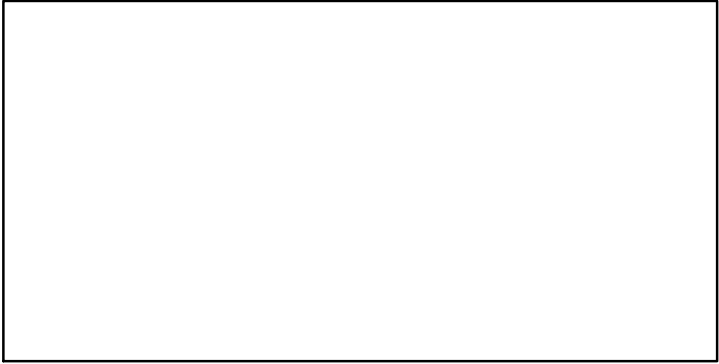
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

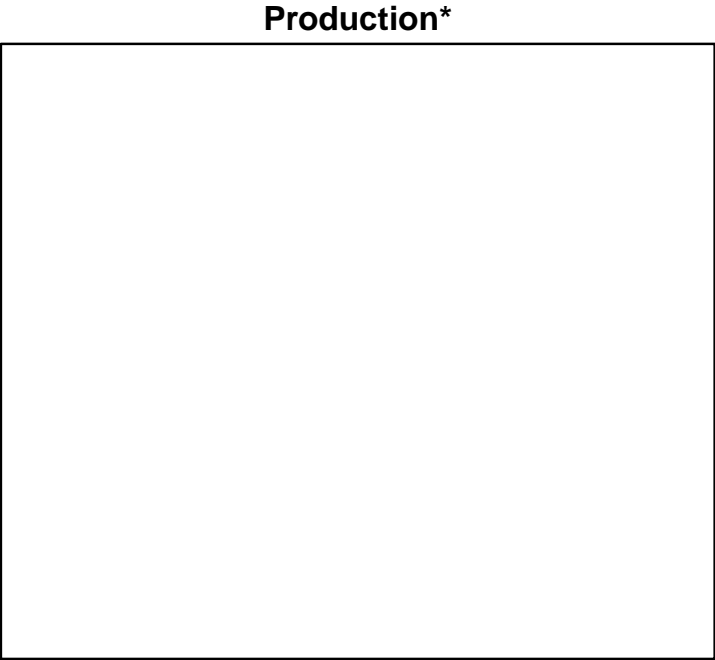
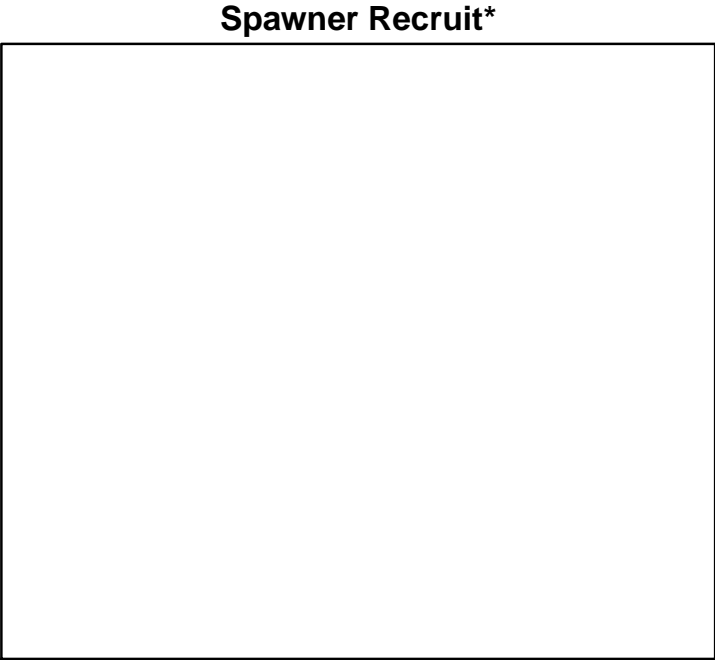
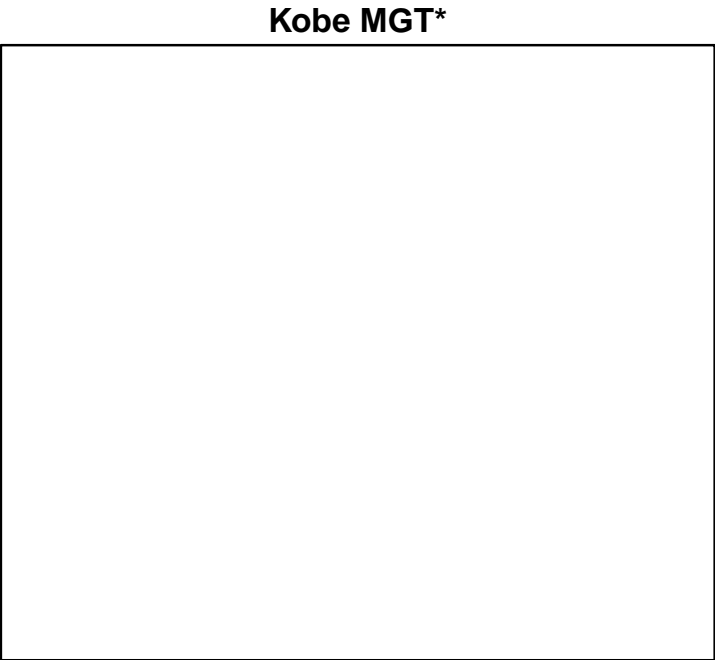
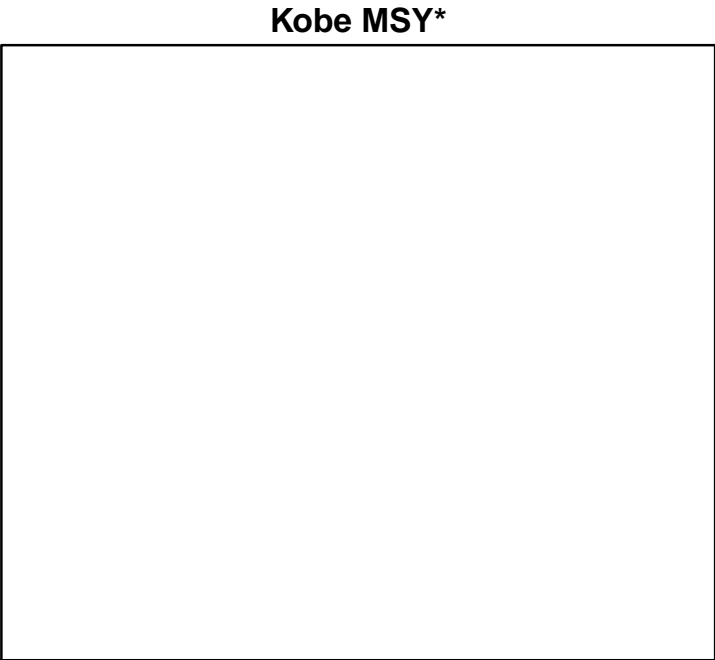


Whiting Kattegat and Skagerrak [WHITIIIa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITIIIa-1975-2018-ICESIMP2021
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

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	1743		
TL	TL-MT	2018	372		
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*

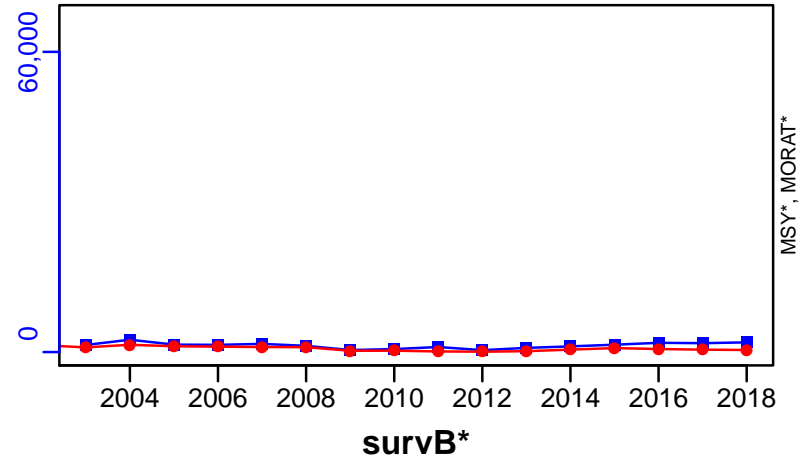


Recruits*



Whiting Kattegat and Skagerrak [WHITIIIa]

TC-MT, TL-MT, RecC* (1975–2018–ICESIMP2021)



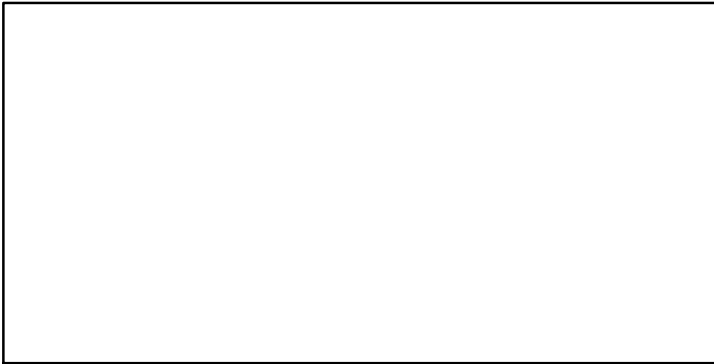
TAC*, Cpair*, Cadv*



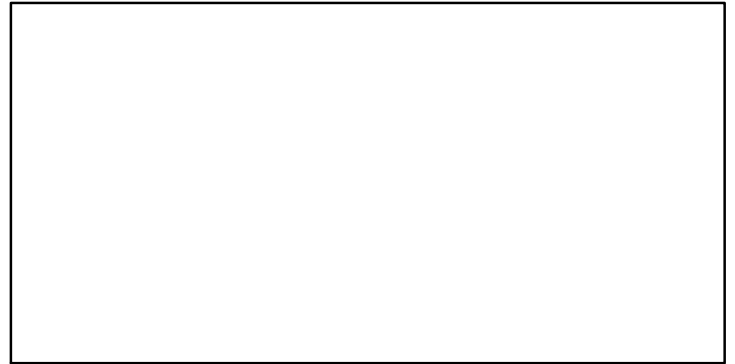
CPUE*



EFFORT*



CdivMSY*



Whiting ICES 4-7d [WHITNS-VIId]

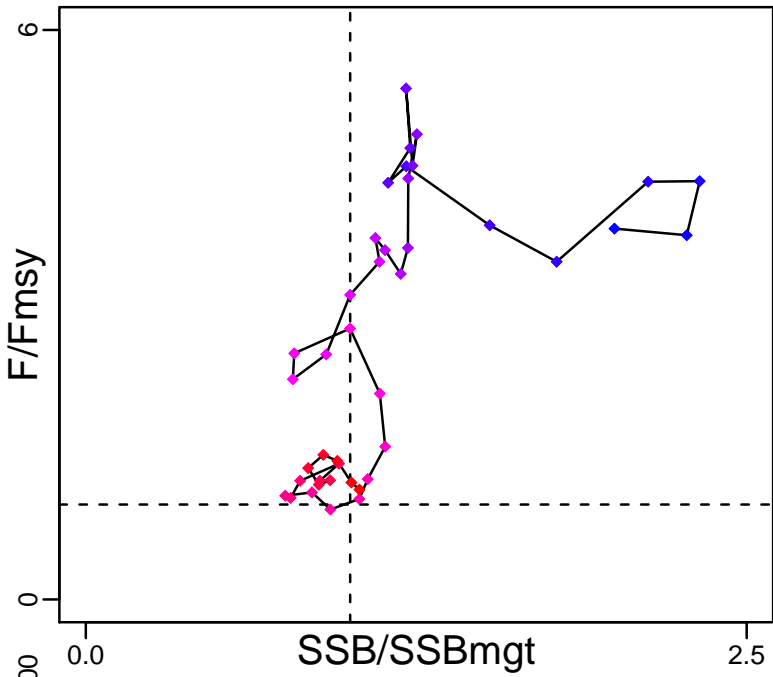
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITNS-VIId-1978-2019-ICESIMP2021
Area	ICES 4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2018, 2019, 2012, 2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	445,591
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.172
ERmsy	ERmsy-est-ratio	2019	0.342
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	166,708
Fmgt	Fmgt-1/yr	2019	0.172
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	78,441
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	119,970
Flim	Flim-1/yr	2018	0.458
ERlim	-	-	-

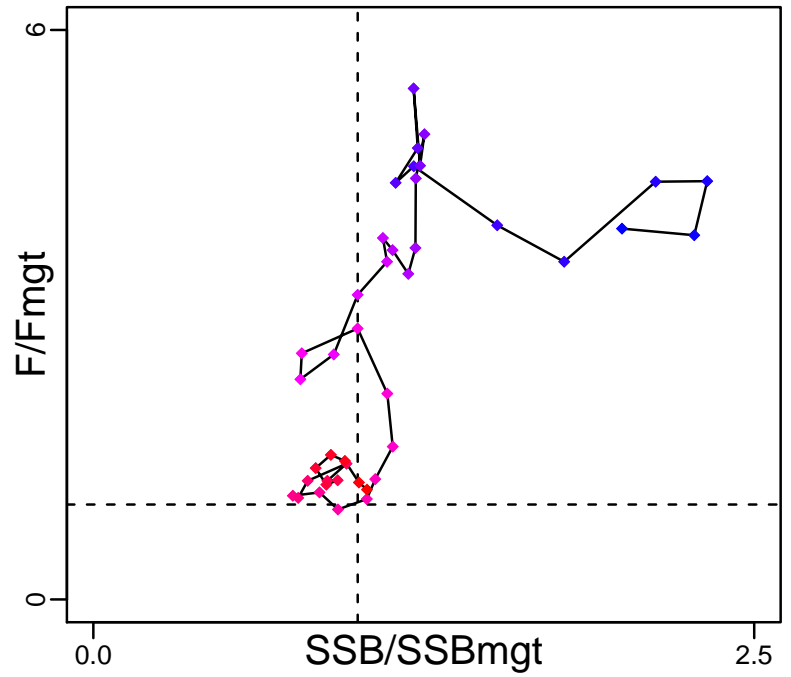
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	293,190	-	-
SSB	SSB-MT	2019	163,406	-	-
TN	-	-	-	-	-
R	R-E00	2019	11,883,334,000	-	0
F	F-1/yr	2019	0.199	-	2 to 6
ER	ER-calc-ratio	2019	0.096	-	-
TC	TC-MT	2019	28,083		
TL	TL-MT	2019	16,444		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.573		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	1.157		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.28		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.98		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.157		
ER/ERmgt	-	-	-		

Whiting ICES 4-7d [WHITNS-VIId]

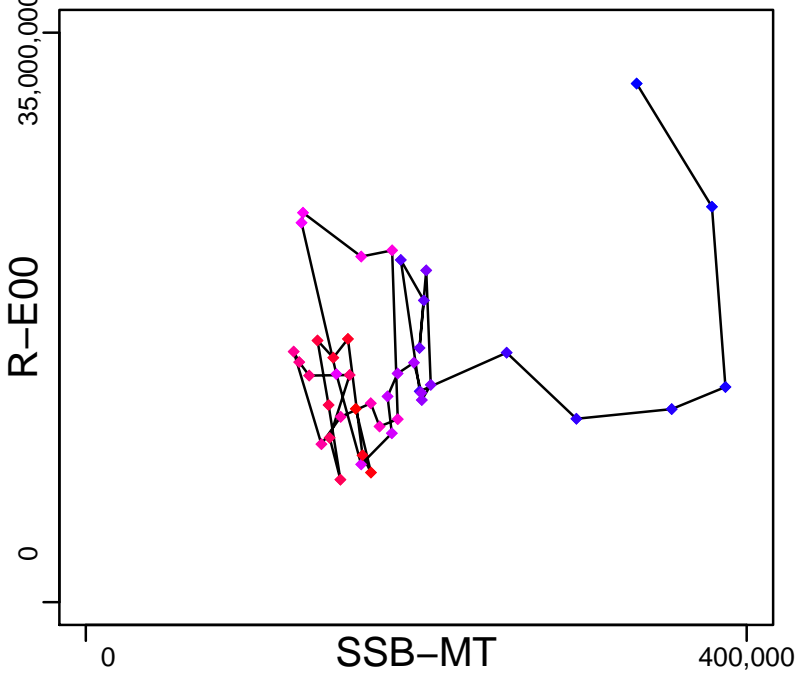
Kobe MSYpref (1978-2019-ICESIMP2021)



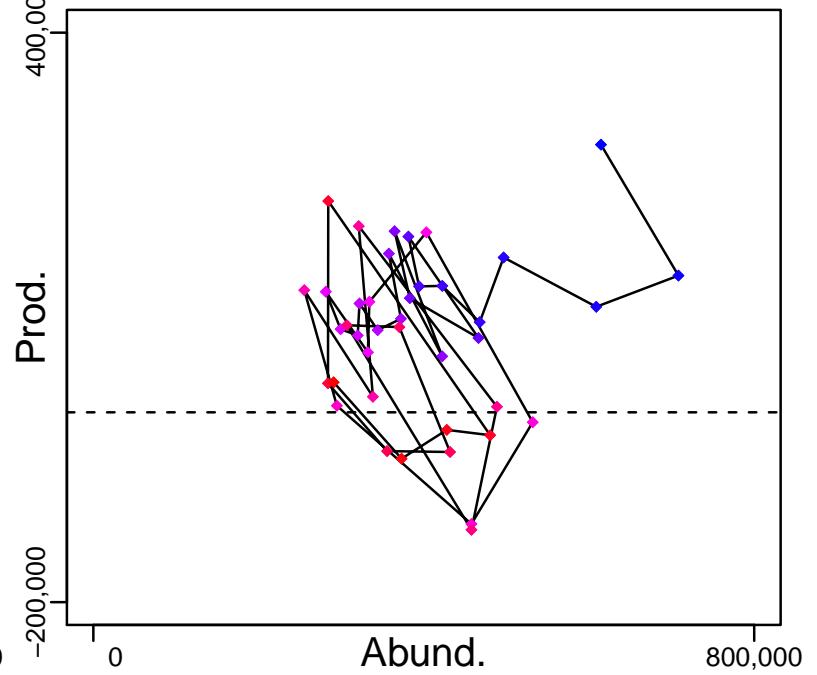
Kobe MGTpref (1978-2019-ICESIMP2021)



Spawner Recruit (1978-2019-ICESIMP2021)

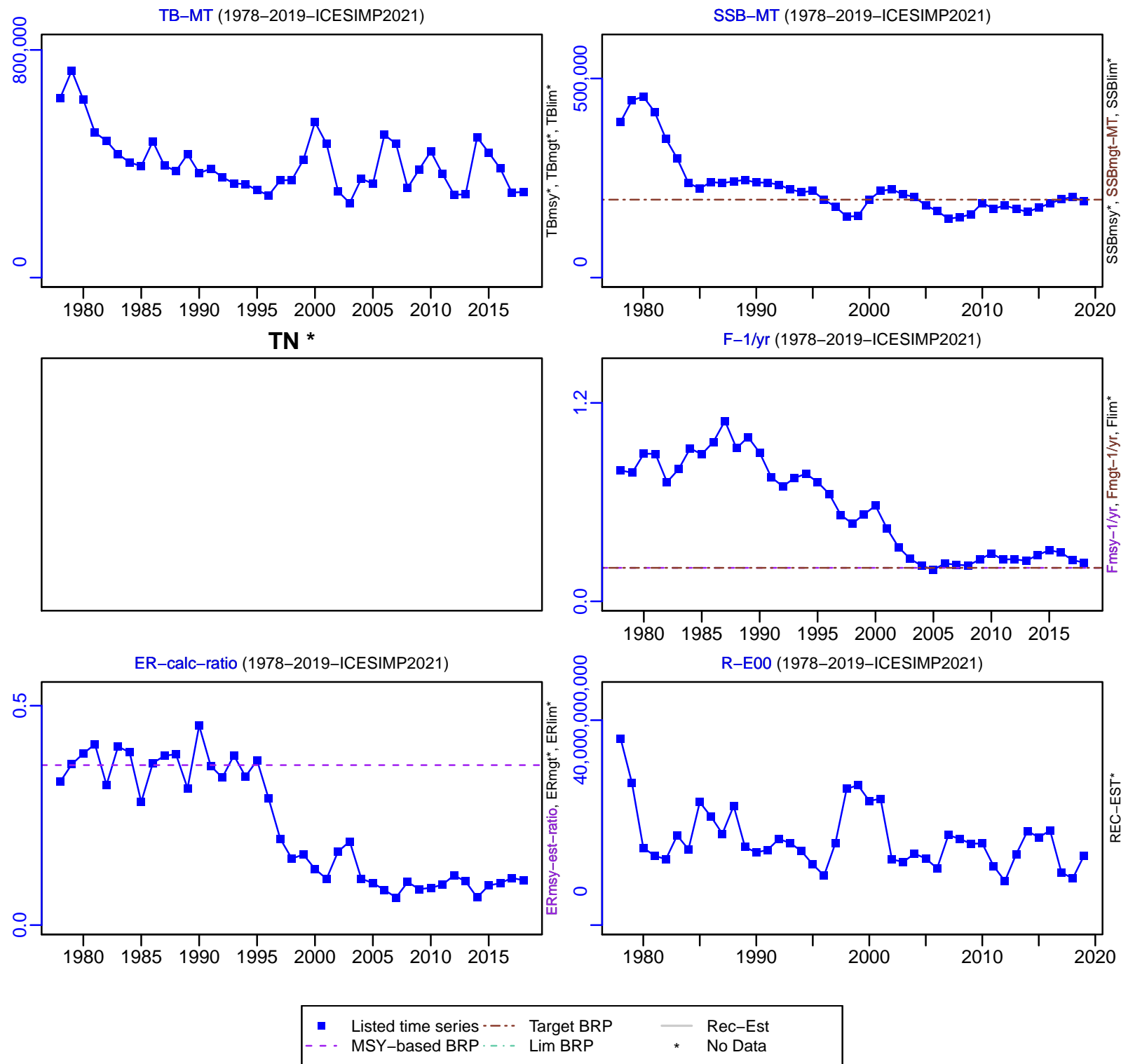


Production (1978-2019-ICESIMP2021)



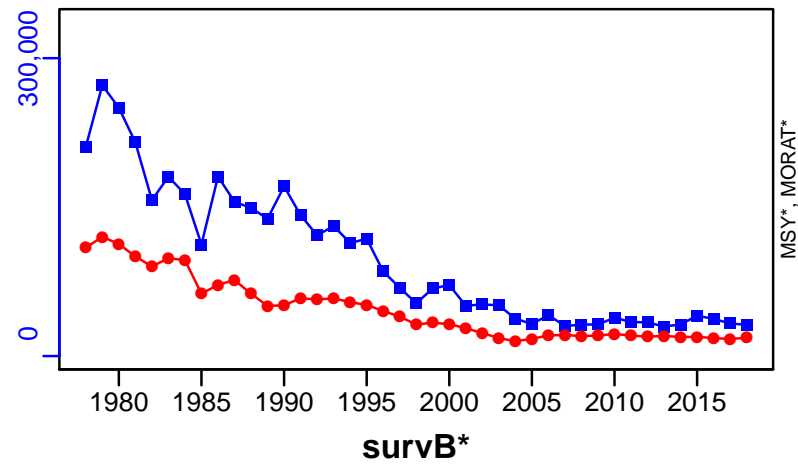
◆ Start Year ◆ End Year * No Data

Whiting ICES 4–7d [WHITNS–VIIId]



Whiting ICES 4-7d [WHITNS-VIId]

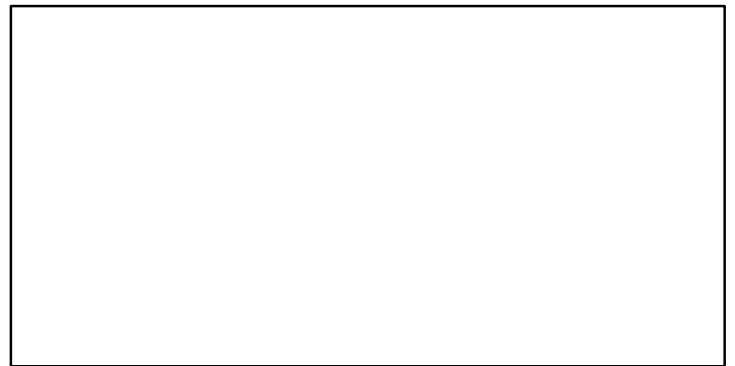
TC-MT, TL-MT, RecC* (1978-2019-ICESIMP2021)



TAC*, Cpair*, Cadv*



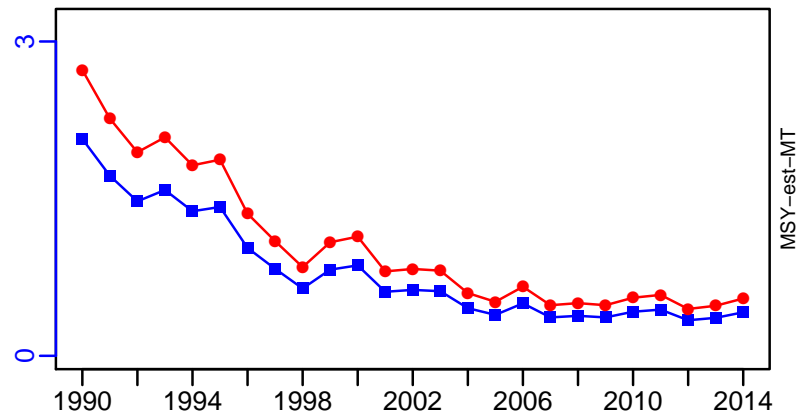
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1989-2015-ICESIMP2016)



Whiting West of Scotland [WHITVla]

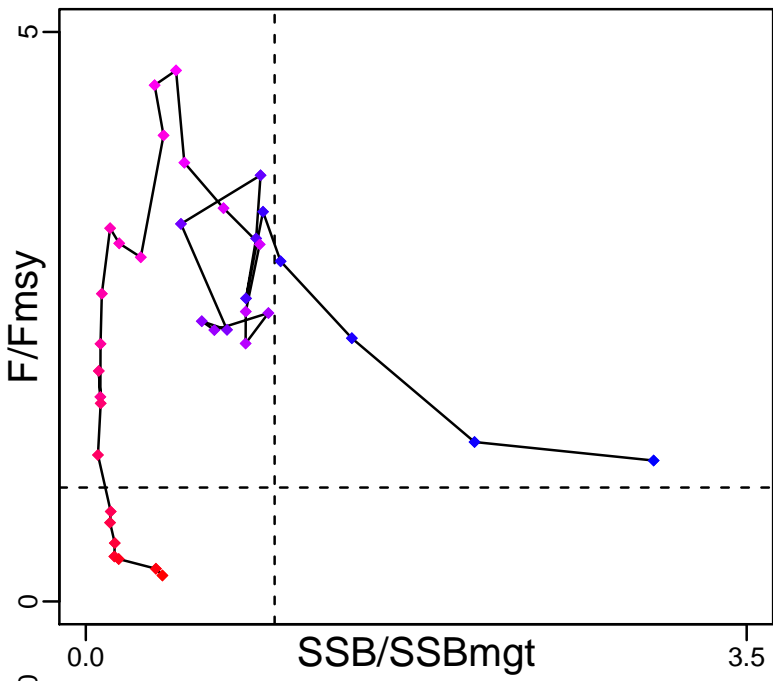
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVla-1980-2018-ICESIMP2021
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	49,397
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.18
ERmsy	ERmsy-est-ratio	2018	0.085
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	44,600
Fmgt	Fmgt-1/yr	2018	0.18
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	11,828
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	31,880
Flim	Flim-1/yr	2017	0.27
ERlim	-	-	-

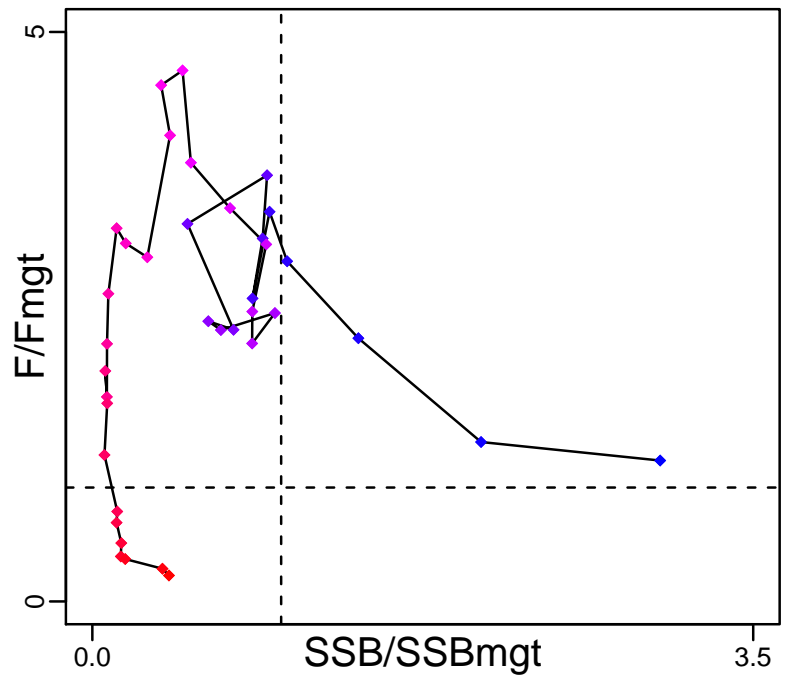
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	31,460	-	-
SSB	SSB-MT	2018	23,143	-	-
TN	-	-	-	-	-
R	R-E00	2018	117,219,140	-	1
F	F-1/yr	2018	0.041	-	2 to 4
ER	ER-calc-ratio	2018	0.054	-	-
TC	TC-MT	2018	1383		
TL	TL-MT	2018	176		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.609		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.228		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2018	0.637		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.519		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.228		
ER/ERmgt	-	-	-		

Whiting West of Scotland [WHITVla]

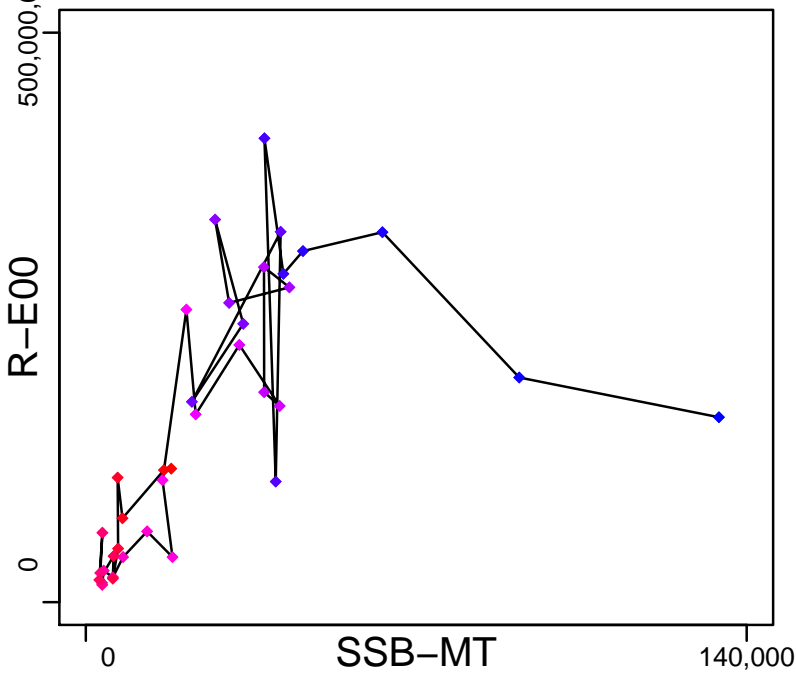
Kobe MSYpref (1980–2018–ICESIMP2021)



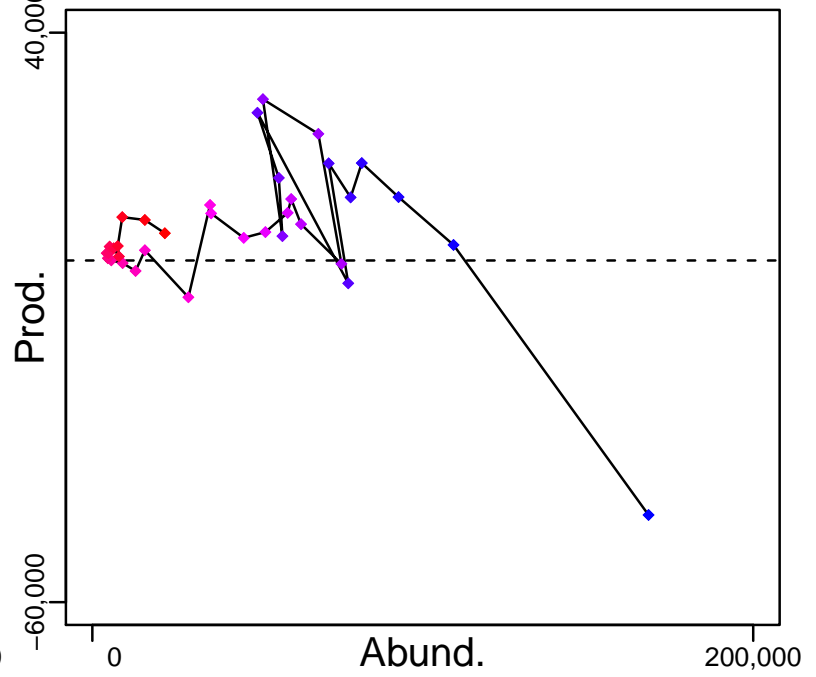
Kobe MGTpref (1980–2018–ICESIMP2021)



Spawner Recruit (1980–2018–ICESIMP2021)



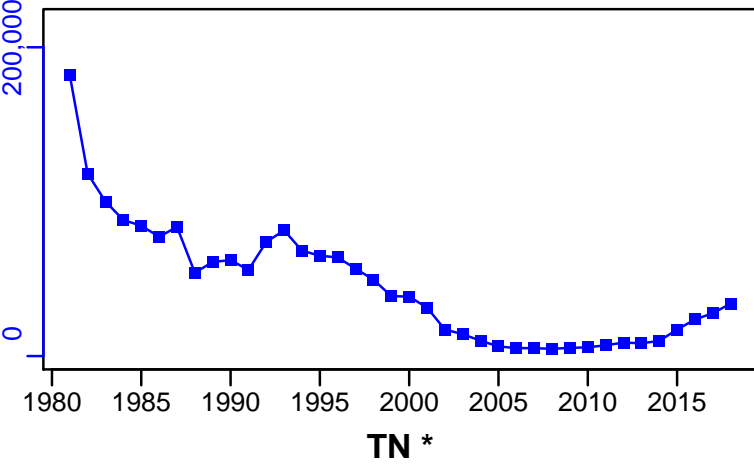
Production (1980–2018–ICESIMP2021)



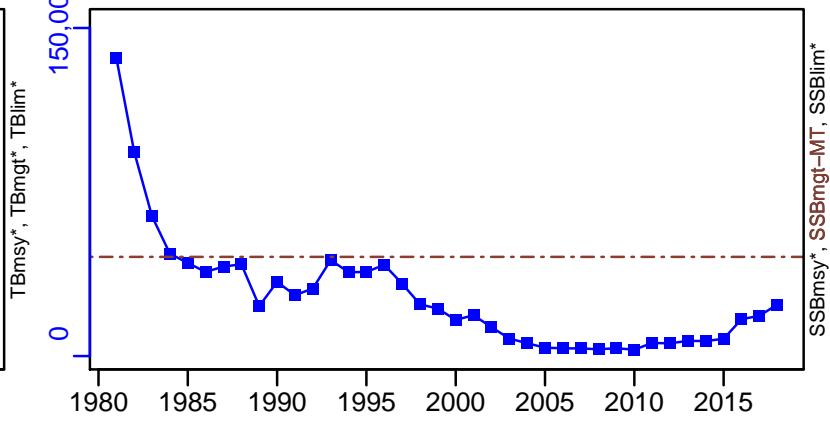
◆ Start Year ◆ End Year * No Data

Whiting West of Scotland [WHITVla]

TB-MT (1980–2018–ICESIMP2021)



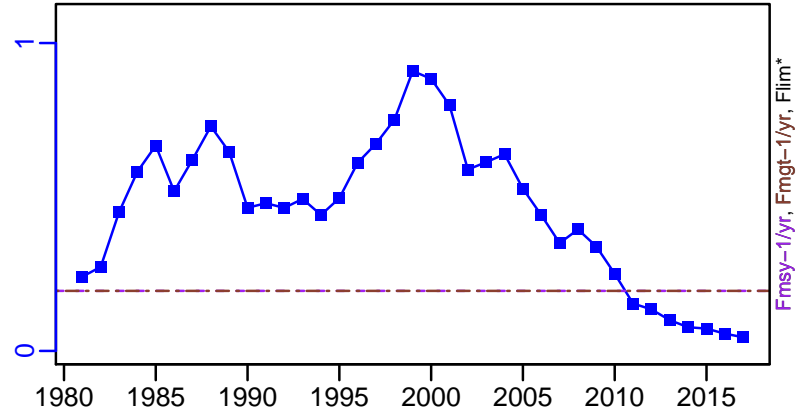
SSB-MT (1980–2018–ICESIMP2021)



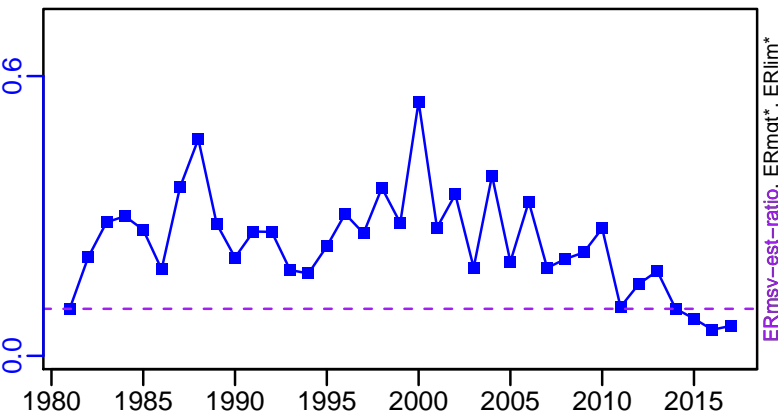
TN *



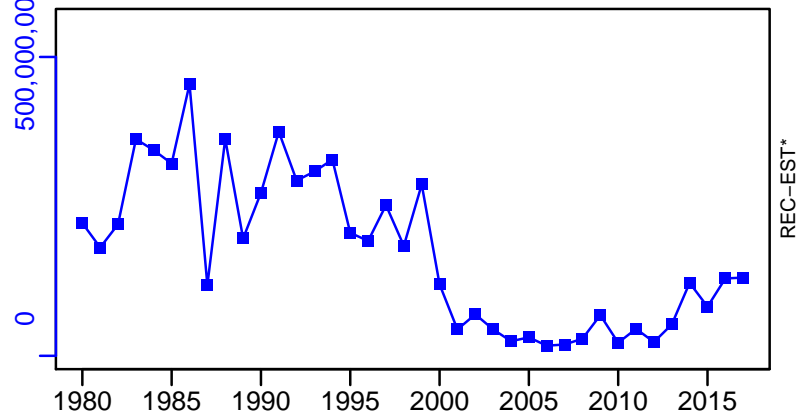
F-1/yr (1980–2018–ICESIMP2021)



ER-calc-ratio (1980–2018–ICESIMP2021)

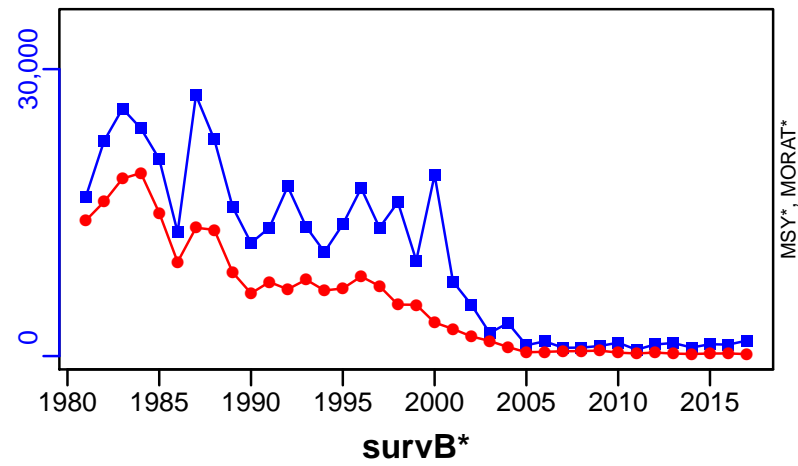


R-E00 (1980–2018–ICESIMP2021)



Whiting West of Scotland [WHITVla]

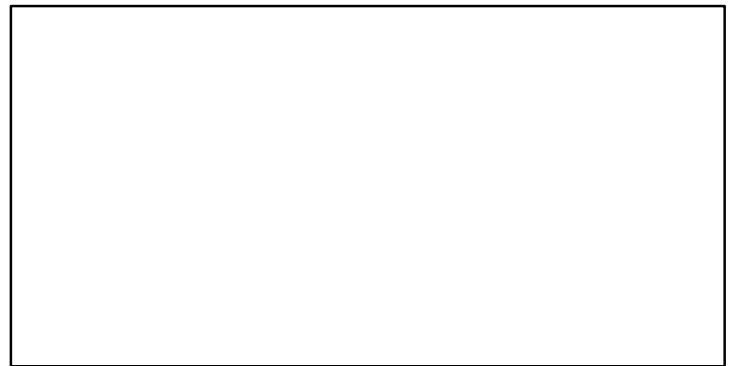
TC-MT, TL-MT, RecC* (1980–2018–ICESIMP2021)



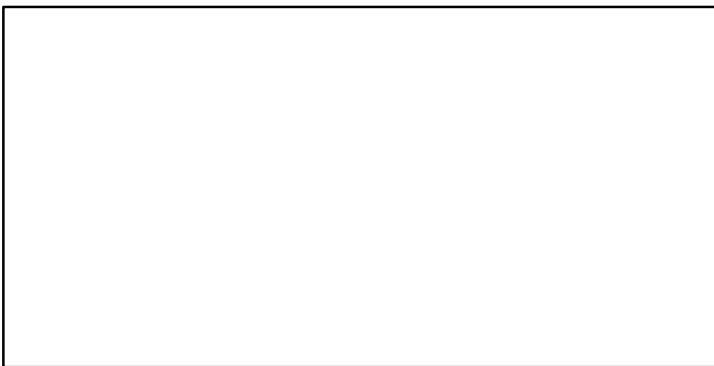
TAC*, Cpair*, Cadv*



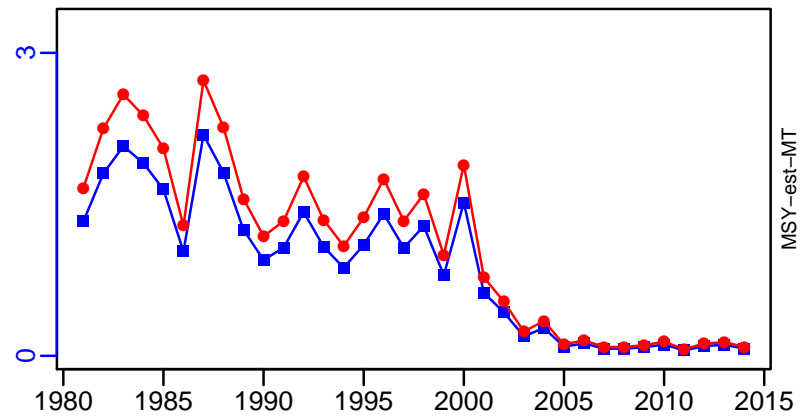
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1980–2015–ICESIMP2016)



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

Whiting Rockall Bank [WHITVib]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVib-1961-2017-ICESIMP2021
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

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	40		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

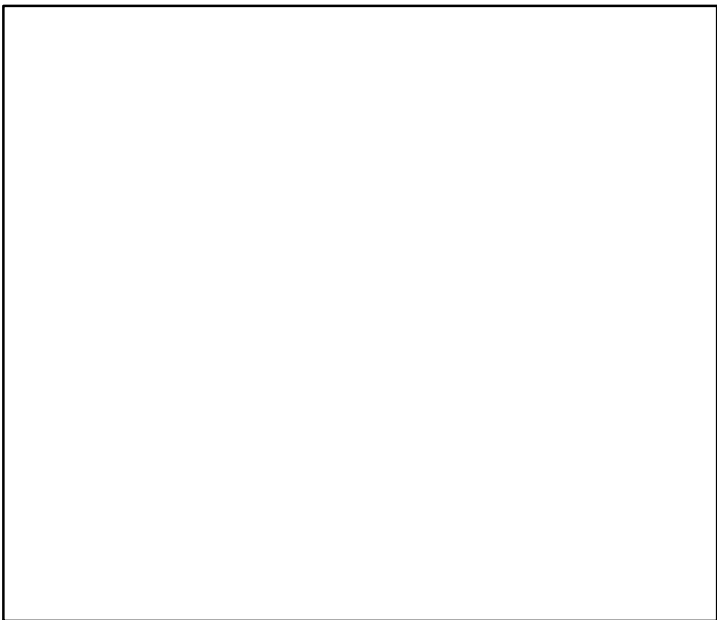
Kobe MSY*



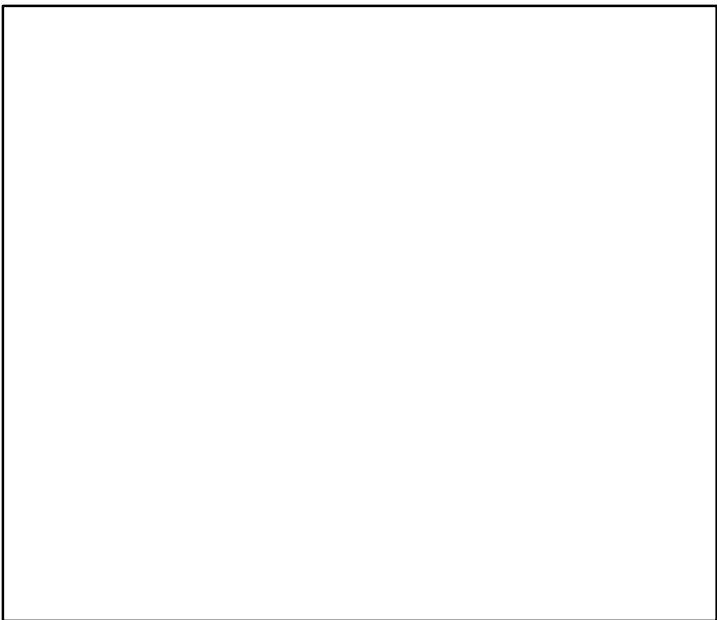
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Whiting Rockall Bank [WHITV1b]

TB*



SSB*



TN *



F*



ER*

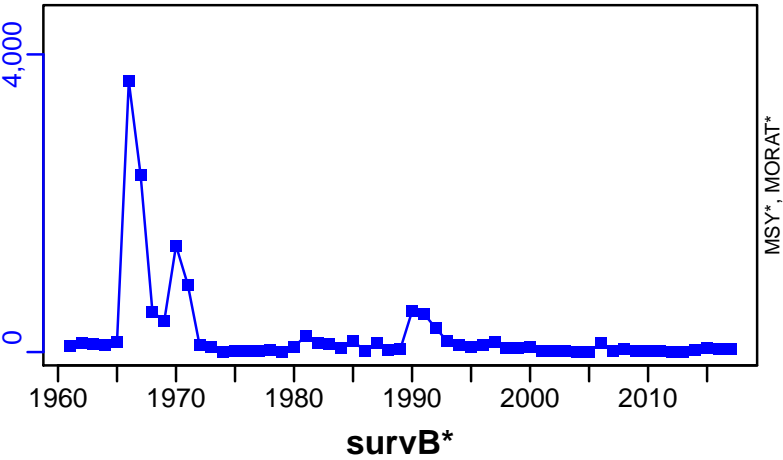


Recruits*



Whiting Rockall Bank [WHITVlb]

TL-MT, TC*, RecC* (1961–2017–ICESIMP2021)



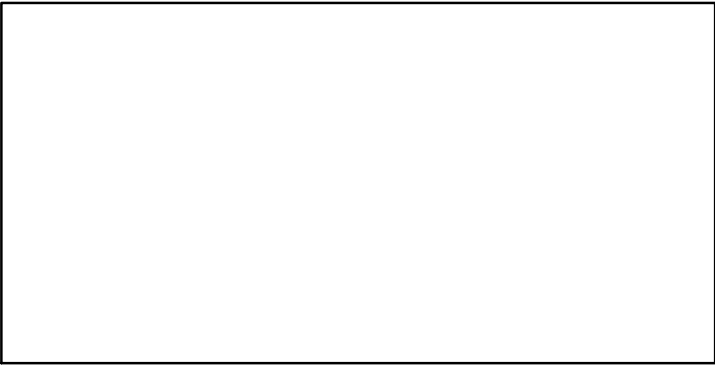
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Whiting Irish Sea [WHITVIIa]

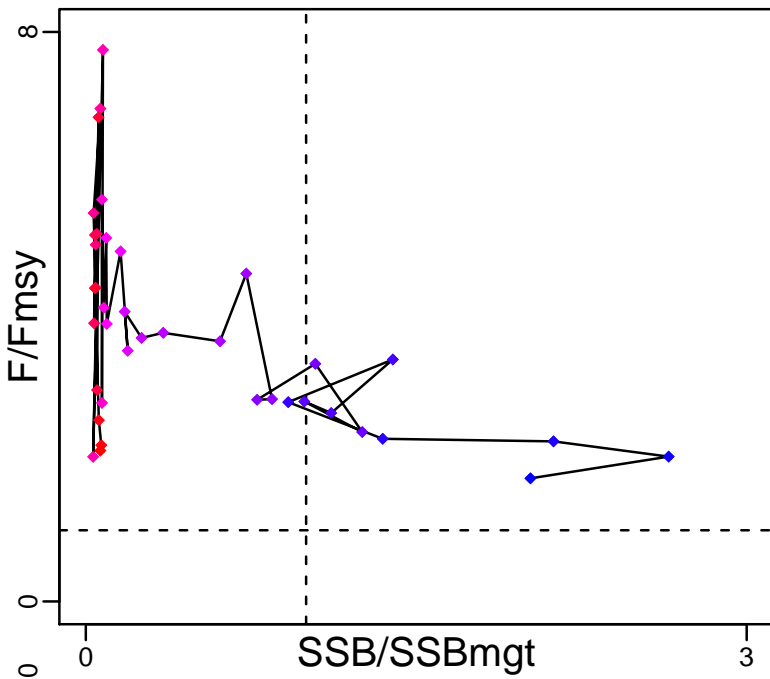
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIa-1980-2019-ICESIMP2021
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2016	589
Fmsy	Fmsy-1/yr	2019	0.219
ERmsy	ERmsy-est-ratio	2019	0.362
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	16,300
Fmgt	Fmgt-1/yr	2019	0.219
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	149
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	10,000
Flim	Flim-1/yr	2017	0.371
ERlim	-	-	-

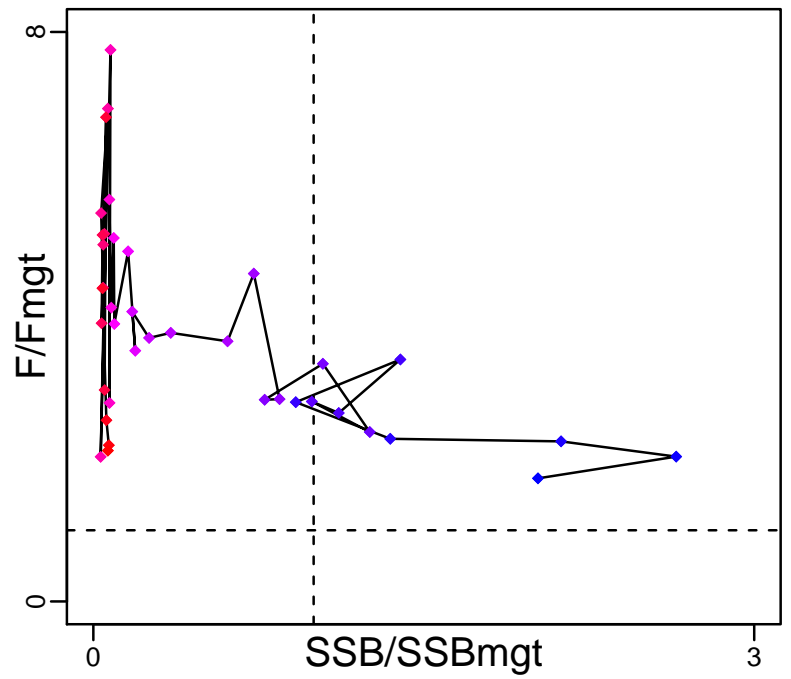
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2175	-	-
SSB	SSB-MT	2019	1376	-	-
TN	-	-	-	-	-
R	R-E00	2019	118,853,000	-	0
F	F-1/yr	2019	0.464	-	1 to 3
ER	ER-calc-ratio	2019	0.413	-	-
TC	TC-MT	2019	899		
TL	TL-MT	2019	46		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.405		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.119		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.143		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.084		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.119		
ER/ERmgt	-	-	-		

Whiting Irish Sea [WHITVila]

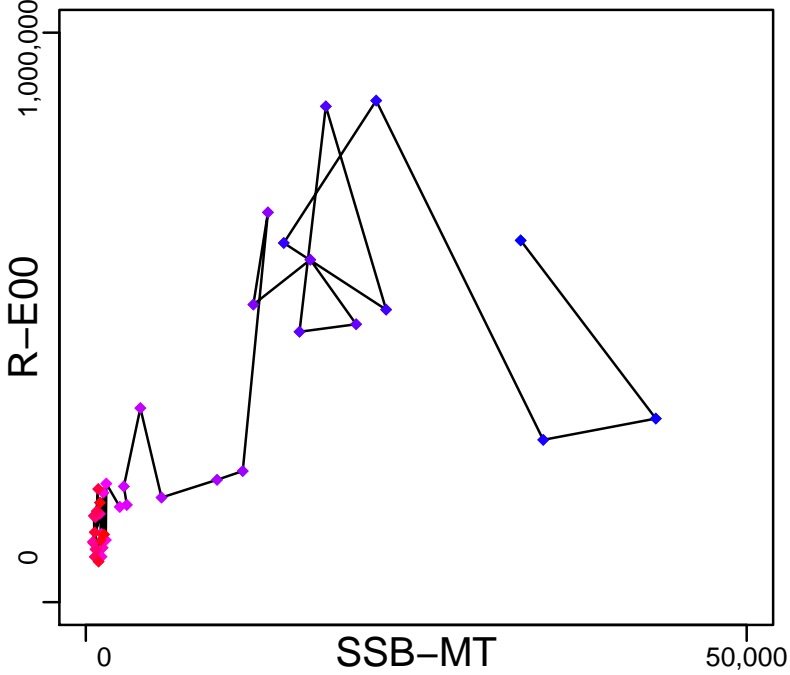
Kobe MSYpref (1980–2019–ICESIMP2021)



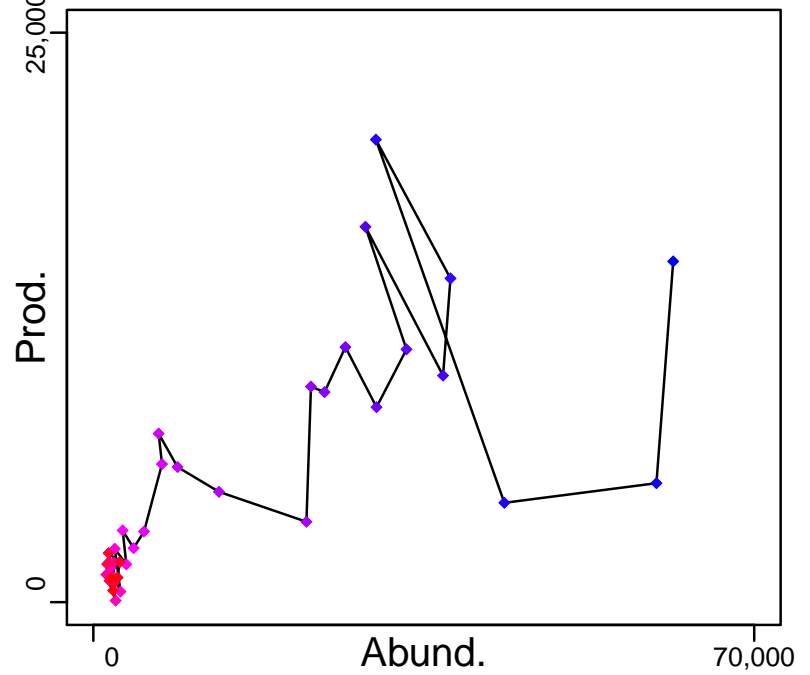
Kobe MGTpref (1980–2019–ICESIMP2021)



Spawner Recruit (1980–2019–ICESIMP2021)



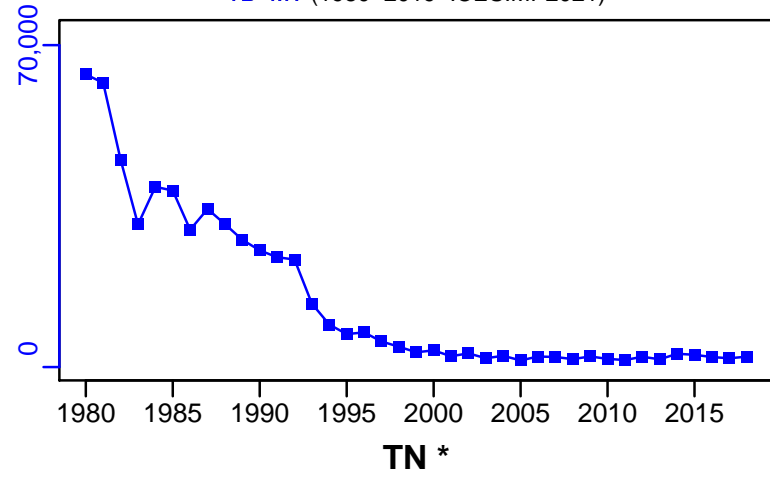
Production (1980–2019–ICESIMP2021)



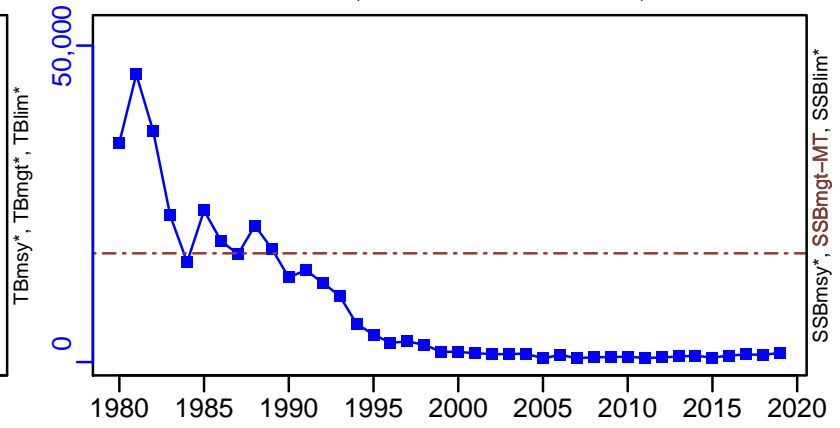
◆ Start Year ◆ End Year * No Data

Whiting Irish Sea [WHITVlla]

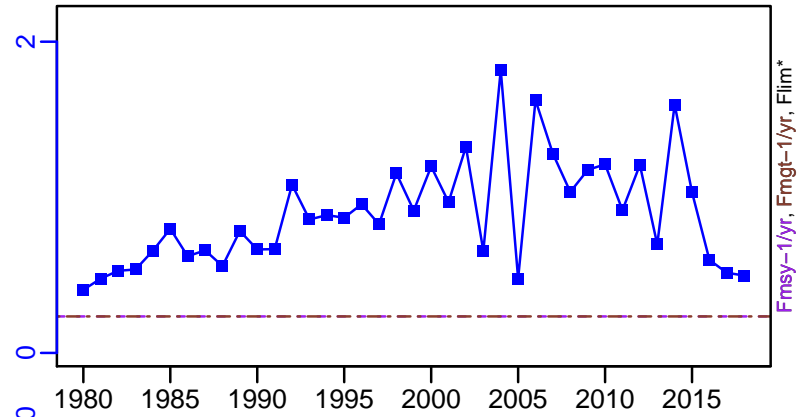
TB-MT (1980–2019–ICESIMP2021)



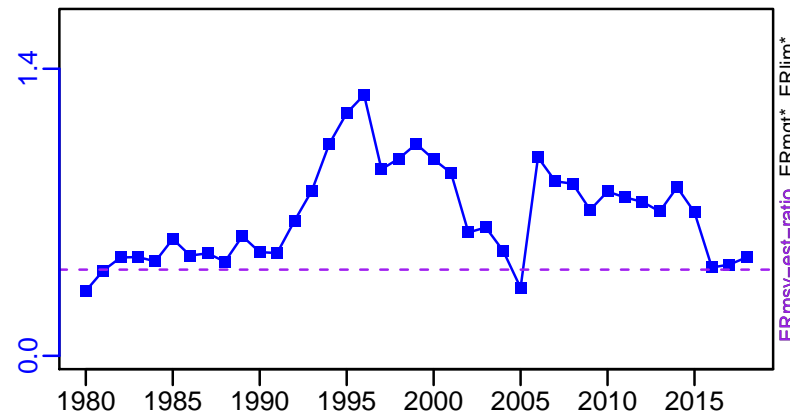
SSB-MT (1980–2019–ICESIMP2021)



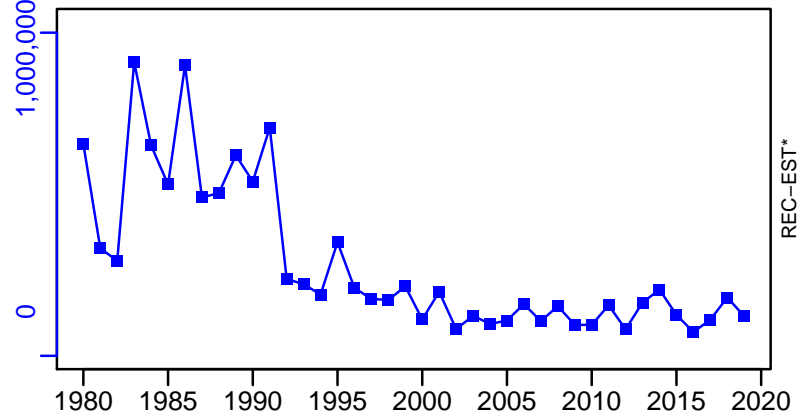
F-1/yr (1980–2019–ICESIMP2021)



ER-calc-ratio (1980–2019–ICESIMP2021)

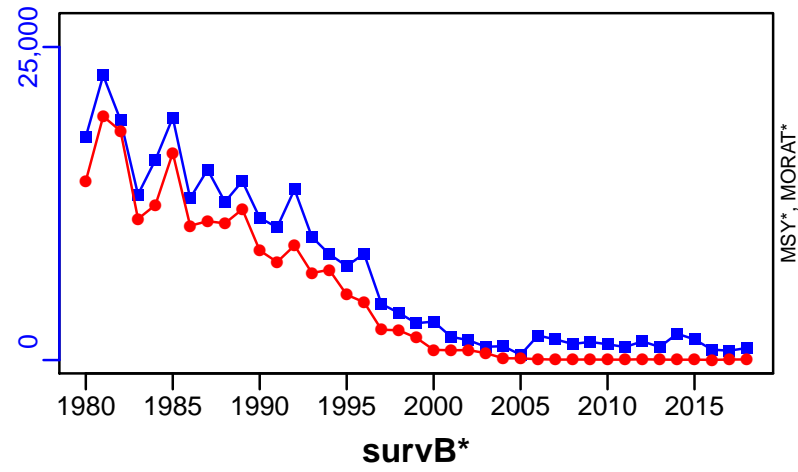


R-E00 (1980–2019–ICESIMP2021)



Whiting Irish Sea [WHITVIIa]

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



TAC*, Cpair*, Cadv*



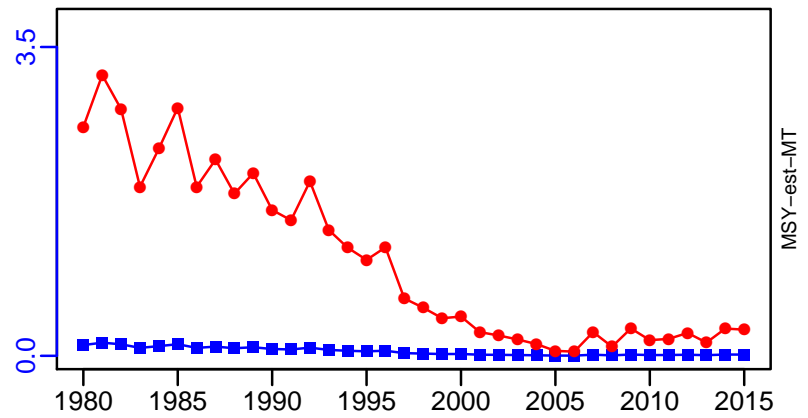
CPUE*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1980–2016–ICESIMP2018)



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

Whiting Celtic Sea [WHITVIIbce-k]

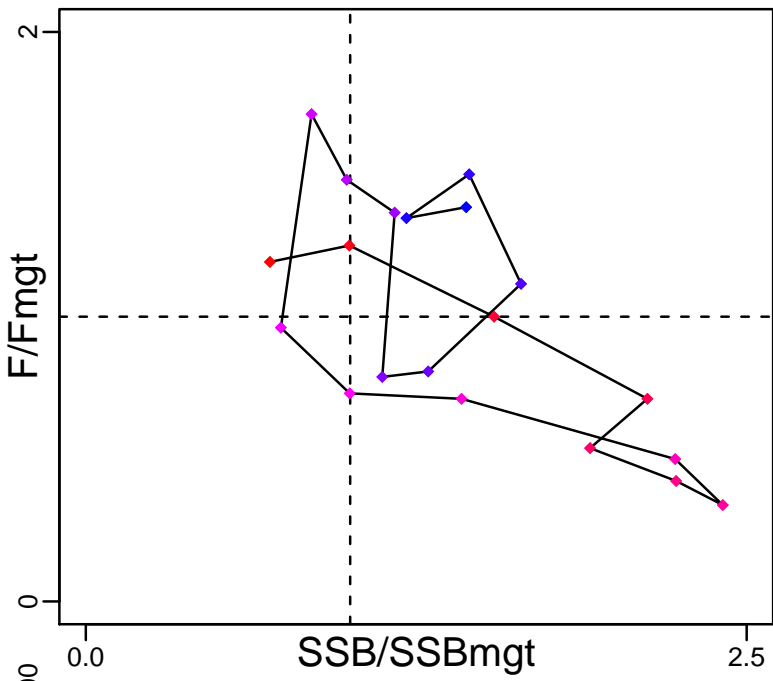
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIbce-k-1999-2019-ICESIMP2021
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2012	56,736
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.52
ERmsy	ERmsy-est-ratio	2019	0.208
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	35,000
Fmgt	Fmgt-1/yr	2019	0.52
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	21,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	25,000
Flim	Flim-1/yr	2017	1.12
ERlim	-	-	-

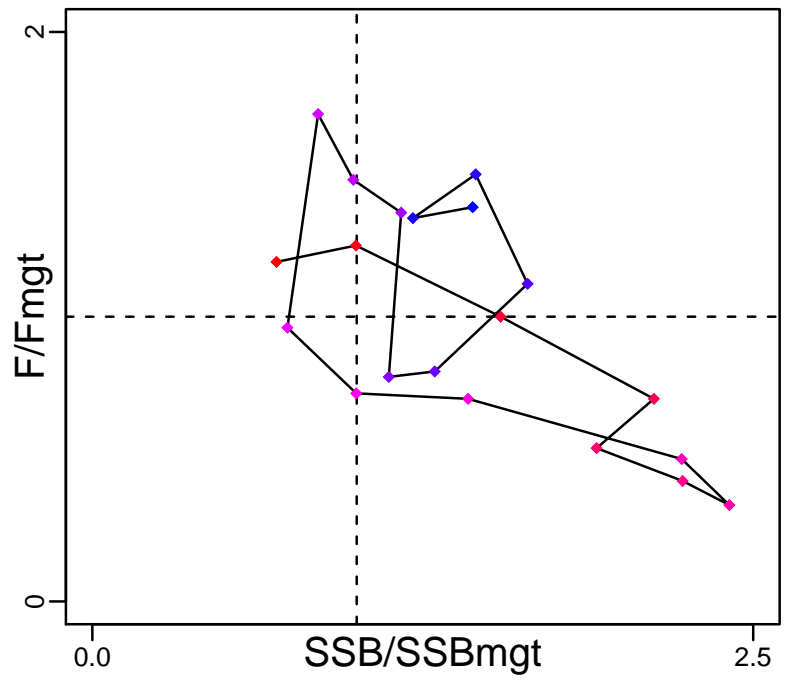
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	95,300	Both	-
SSB	SSB-MT	2019	17,423	-	-
TN	-	-	-	-	-
R	R-E00	2019	844,529,000	-	0
F	F-1/yr	2019	0.62	-	2 to 5
ER	ER-calc-ratio	2019	0.237	-	-
TC	TC-MT	2017	22,500		
TL	TL-MT	2019	8773		
TB/TBmsy	TB-MT/TBmsy-est-MT	2012	1.29		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.827		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	1.136		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.498		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.192		
ER/ERmgt	-	-	-		

Whiting Celtic Sea [WHITVIIbce-k]

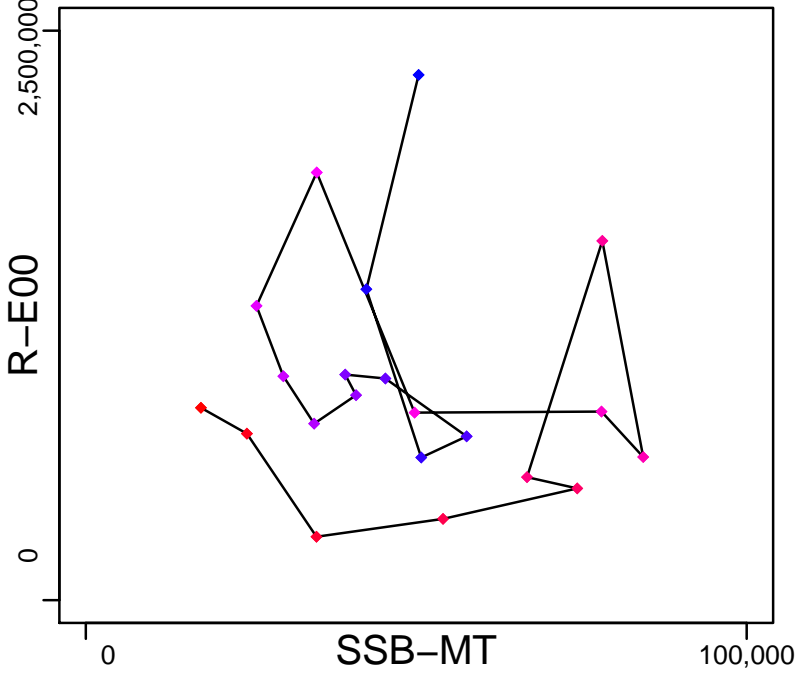
Kobe MSYpref (1999–2019–ICESIMP2021)



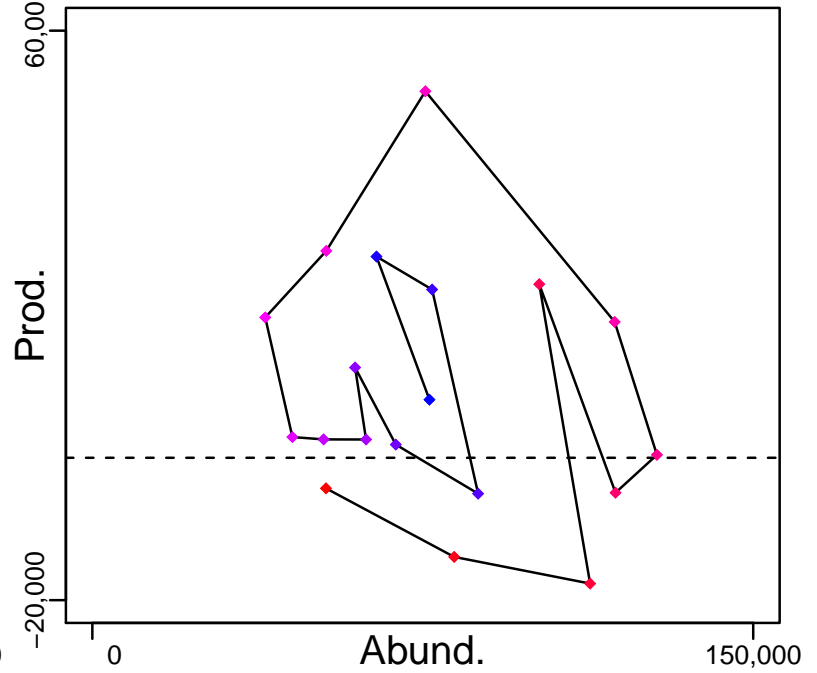
Kobe MGTpref (1999–2019–ICESIMP2021)



Spawner Recruit (1999–2019–ICESIMP2021)



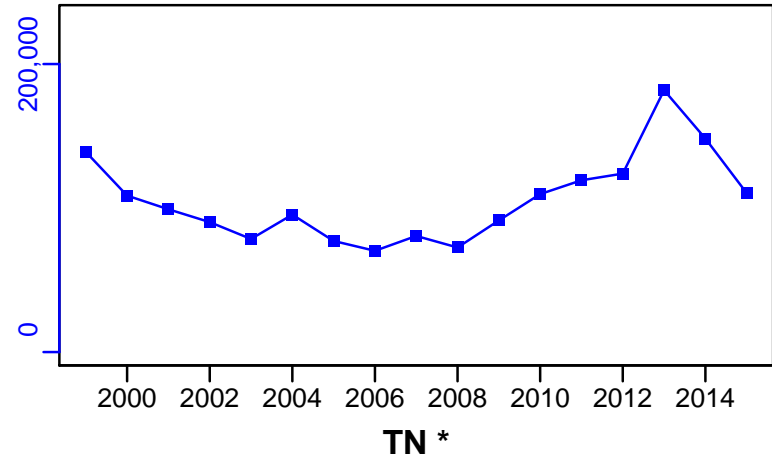
Production (1999–2019–ICESIMP2021)



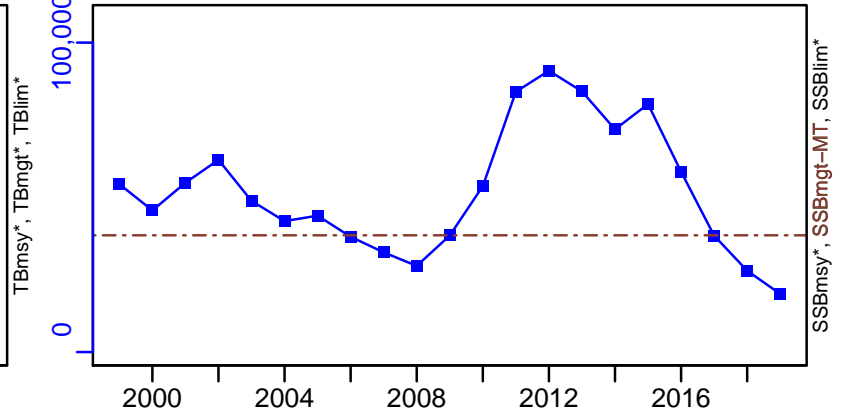
◆ Start Year ◆ End Year * No Data

Whiting Celtic Sea [WHITVIIbce-k]

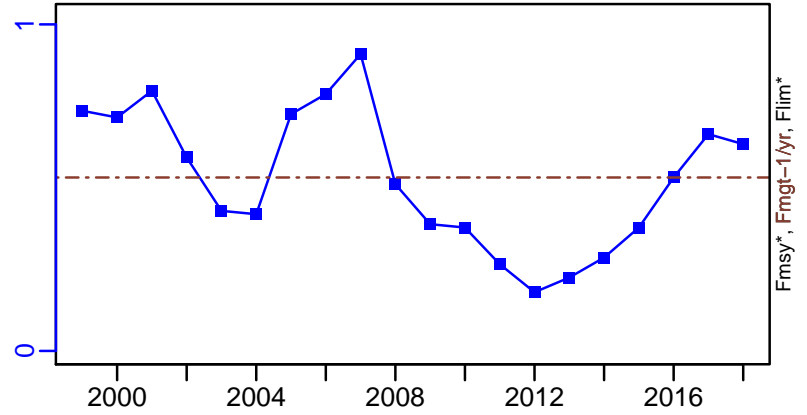
TB-MT (1999–2016–ICESIMP2016)



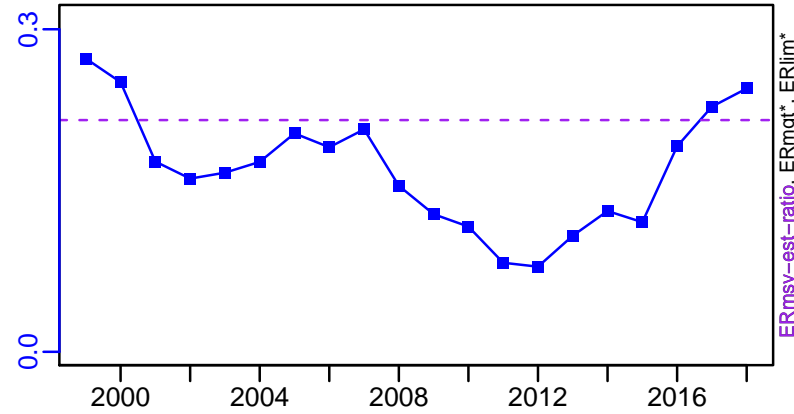
SSB-MT (1999–2019–ICESIMP2021)



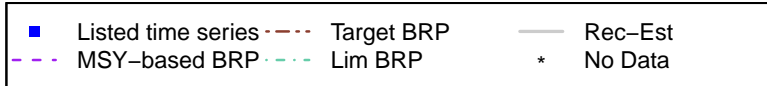
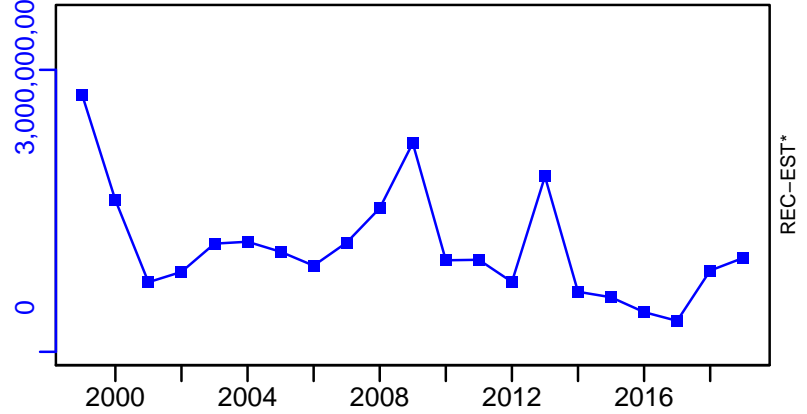
F-1/yr (1999–2019–ICESIMP2021)



ER-calc-ratio (1999–2019–ICESIMP2021)

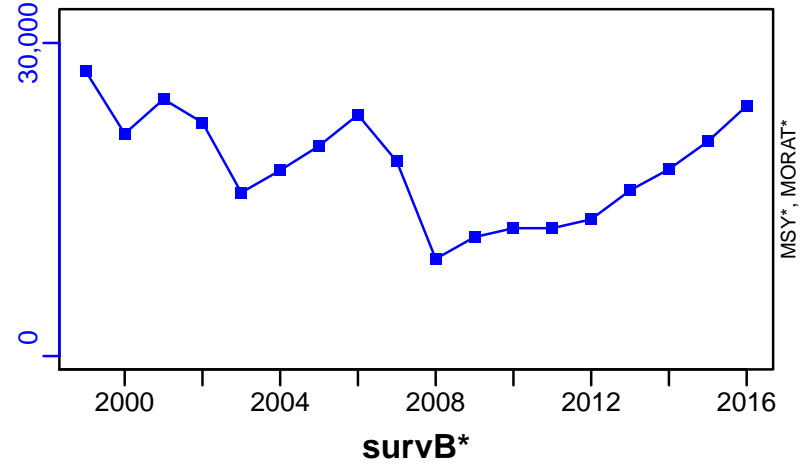


R-E00 (1999–2019–ICESIMP2021)



Whiting Celtic Sea [WHITVIIbce-k]

TC-MT, TL*, RecC* (1999–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



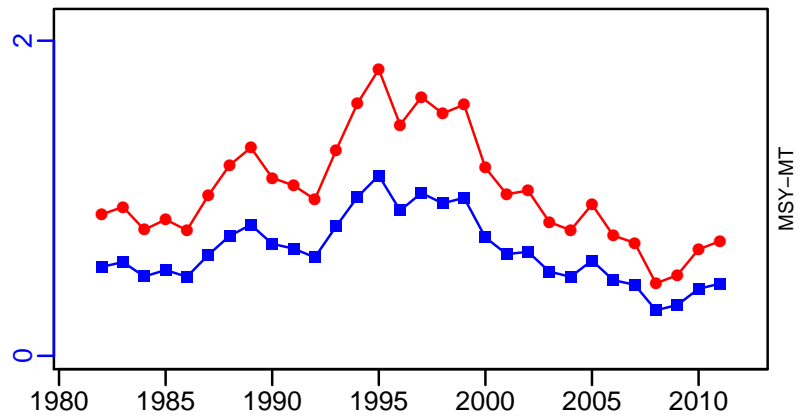
CPUE*



EFFORT*



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



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

Whiting ICES 8-9a [WHITVIII-IXa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGBIE-WHITVIII-IXa-1994-2018-ICESIMP2021
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 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	2194		
TL	TL-MT	2018	1539		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

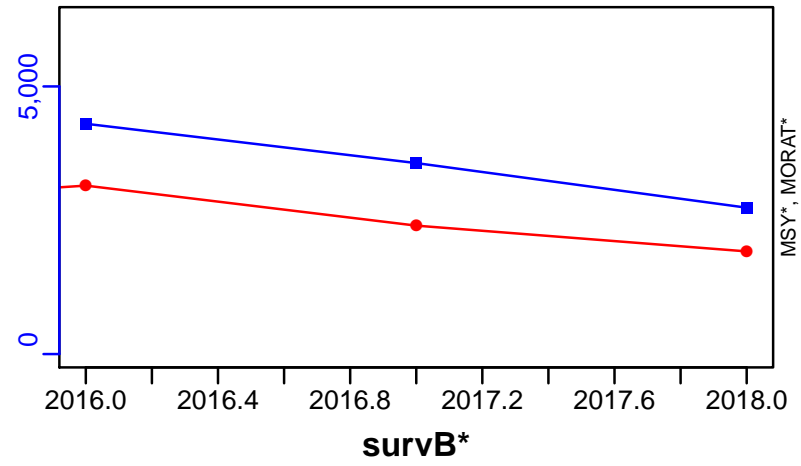
--- Lim BRP

— Rec-Est

* No Data

Whiting ICES 8–9a [WHITVIII–IXa]

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



TAC*, Cpair*, Cadv*



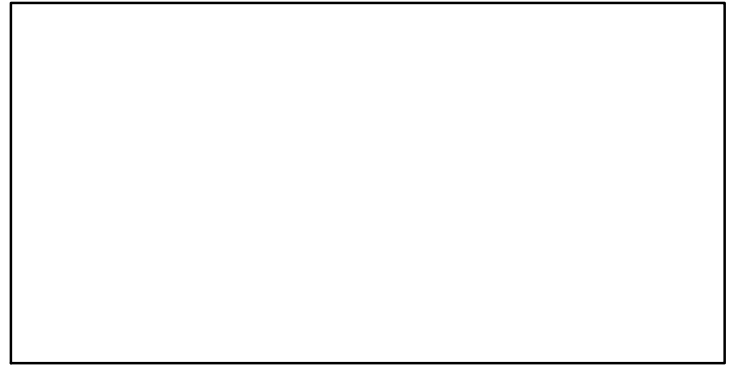
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	WGNSSK-WITFLOUNIIIa-IV-VIId-1975-2016-ICESIMP2018
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	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	SSB-index	2015	0.189	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2740		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



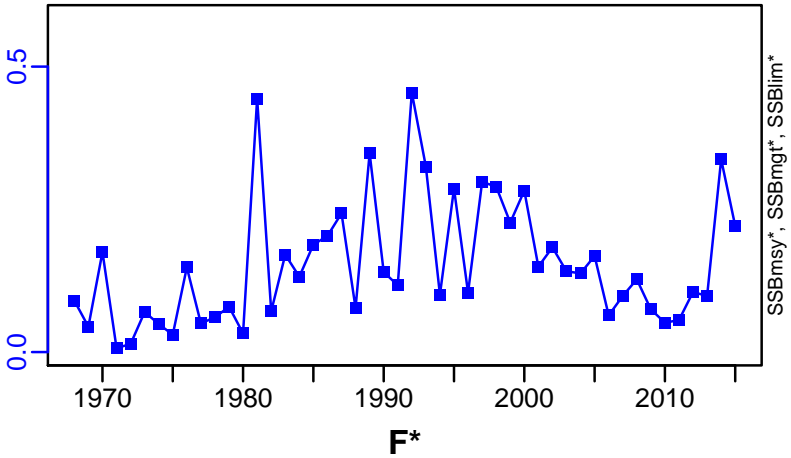
◆ Start Year ◆ End Year * No Data

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

TB*



SSB-index (1968–2015–ICESIMP2018)



TN *



F*



ER*

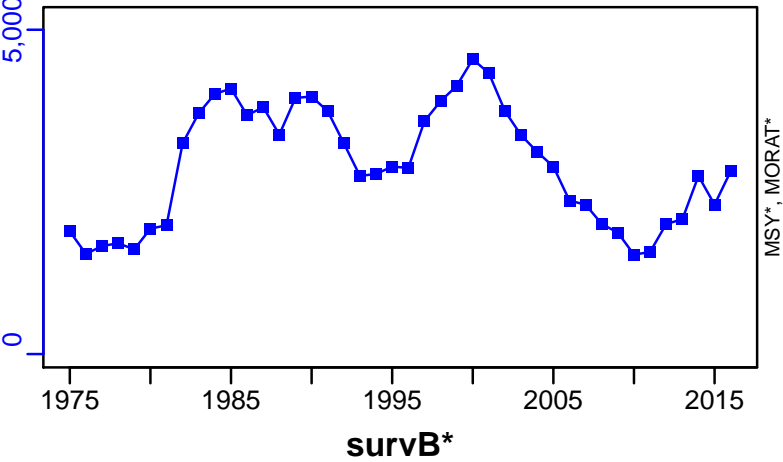


Recruits*



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

TL–MT, TC*, RecC* (1975–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

