

European Union Stocks

v4.66 (Nov-03-2024)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgmt
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. ANGLSPPIIIa-IV-VI [Anglerfish spp ICES 3a-4-6]	TB SSB	ER F	TB SSB	ER F
4. ANGLVIIIC-IXa [Black bellied angler ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
5. ANGLVII-VIIAbd [Black bellied angler ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F
6. ASHARNEATL [Angel shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
7. BERYXSPPNEATL [Beryx spp Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
8. BFLOUN27-2932 [Baltic flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F
9. BJMACKXa2 [Blue jack mackerel Azores]	TB SSB	ER F	TB SSB	ER F
10. BKSFNEATL [Black scabbardfish Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
11. 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
12. BLINGVb-VI-VII [Blue ling ICES 5b-6-7]	TB SSB	ER F	TB SSB	ER F
13. BLRAYIVa-VI [Blonde ray ICES 4a-6]	TB SSB	ER F	TB SSB	ER F
14. BLRAYIVc-VIId [Blonde ray ICES 4c-7d]	TB SSB	ER F	TB SSB	ER F
15. BLRAYIXa [Blonde ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
16. BLRAYVIIafg [Blonde ray ICES 7afg]	TB SSB	ER F	TB SSB	ER F
17. BLRAYVIIe [Blonde ray Western English Channel]	TB SSB	ER F	TB SSB	ER F
18. BMDOGVIII-IXa [Blackmouth dogfish ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
19. BMDOGVI-VII [Blackmouth dogfish ICES 6-7]	TB SSB	ER F	TB SSB	ER F
20. BOARVI-VIII [Boarfish ICES 6-8]	TB SSB	ER F	TB SSB	ER F
21. BRILL2232 [Brill Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
22. BRILLIIIa-IV-VIId [Brill ICES 3a-4-7de]	TB SSB	ER F	TB SSB	ER F
23. BSKSHARNEATL [Basking shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
24. BWHITNEA [Blue whiting Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
25. CKRAYIIIa-IV [Cuckoo ray ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
26. CKRAYIXa [Cuckoo ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
27. CKRAYVIIc [Cuckoo ray Bay of Biscay -South]	TB SSB	ER F	TB SSB	ER F
28. CKRAYVI-VII [Cuckoo ray ICES 6-7]	TB SSB	ER F	TB SSB	ER F
29. CODBA2224 [Atlantic cod Western Baltic]	TB SSB	ER F	TB SSB	ER F
30. CODBA2532 [Atlantic cod Eastern Baltic]	TB SSB	ER F	TB SSB	ER F
31. CODIIIaW-IV-VIId [Atlantic cod ICES 3a(west)-4-7d]	TB SSB	ER F	TB SSB	ER F
32. CODIS [Atlantic cod Irish Sea]	TB SSB	ER F	TB SSB	ER F
33. CODKAT [Atlantic cod Kattegat]	TB SSB	ER F	TB SSB	ER F
34. CODVIA [Atlantic cod West of Scotland]	TB SSB	ER F	TB SSB	ER F
35. CODVIB [Atlantic cod Rockall Bank]	TB SSB	ER F	TB SSB	ER F
36. CODVIIlek [Atlantic cod Celtic Sea]	TB SSB	ER F	TB SSB	ER F
37. CUSKNEATL [Tusk Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
38. CUSKVa-XIV [Tusk ICES 5a-14]	TB SSB	ER F	TB SSB	ER F
39. CUSKVib [Tusk Rockall Bank]	TB SSB	ER F	TB SSB	ER F

40. CUSKXII [Tusk North of Azores]	TB SSB	ER F	TB SSB	ER F
41. DAB2232 [Dab Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
42. DABIlla-IV [Dab ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
43. EBASSIVbc-VII [European seabass ICES 4bc-7]	TB SSB	ER F	TB SSB	ER F
44. EBASSVla-VIIb-j [European seabass ICES 6a-7b-j]	TB SSB	ER F	TB SSB	ER F
45. EBASSVIIlab [European seabass ICES 8ab]	TB SSB	ER F	TB SSB	ER F
46. EBASSVIIlc-IXa [European seabass ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
47. EFLOUN2223 [European flounder Subdivisions 22-23]	TB SSB	ER F	TB SSB	ER F
48. EFLOUN2425 [European flounder Subdivisions 24-25]	TB SSB	ER F	TB SSB	ER F
49. EFLOUN26-28 [European flounder Subdivisions 26-28]	TB SSB	ER F	TB SSB	ER F
50. EFLOUN27-2932 [European flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F
51. EFLOUNIIIlla-IV [European flounder ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
52. EPOLLIV-IIIlla [European pollack ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
53. EPOLLVIII-IXa [European pollack ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
54. FMEG8c9a [Fourspotted megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
55. FMEGVIIlb-k_VIIlabd [Fourspotted megrim ICES 7b-k_8abd]	TB SSB	ER F	TB SSB	ER F
56. GFORKNEATL [Greater forkbeard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
57. GGURNIIIlla-IV-VIId [Grey gurnard ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
58. GHALV-VI-XII-XIV [Greenland halibut ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
59. GOLDREDV-VI-XII-XIV [Golden redfish ICES 5-6-12-14]	TB SSB	ER F	TB SSB	ER F
60. GSSMELTI-II-IIIlla-IV [Greater silver smelt ICES 1-2-3a-4]	TB SSB	ER F	TB SSB	ER F
61. GSSMELTVIb-VII-VIII-IX-X-XII [Greater silver smelt ICES 6b-7-8-9-10-12]	TB SSB	ER F	TB SSB	ER F
62. HADIS [Haddock Irish Sea]	TB SSB	ER F	TB SSB	ER F
63. HADNS-IIIlla-VIa [Haddock ICES 3a-4-6a]	TB SSB	ER F	TB SSB	ER F
64. HADROCK [Haddock Rockall Bank]	TB SSB	ER F	TB SSB	ER F
65. HADVIIlb-k [Haddock ICES 7b-k]	TB SSB	ER F	TB SSB	ER F
66. HAKENRTN [Hake ICES 3a-4-6-7-8abd]	TB SSB	ER F	TB SSB	ER F
67. HAKESOTH [Hake ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
68. HERR2224IIIlla [Herring ICES 22-24-3a]	TB SSB	ER F	TB SSB	ER F
69. HERR2529-32 [Herring Subdivisions 25-29 and 32]	TB SSB	ER F	TB SSB	ER F
70. HERR30-31 [Herring Subdivisions 30-31]	TB SSB	ER F	TB SSB	ER F
71. HERRNIRS [Herring Irish Sea]	TB SSB	ER F	TB SSB	ER F
72. HERRNS-IIIlla-VIId [Herring ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
73. HERRRIGA [Herring Gulf of Riga East of Gotland]	TB SSB	ER F	TB SSB	ER F
74. HERRSIRS [Herring ICES 7a-g-h-j-k]	TB SSB	ER F	TB SSB	ER F
75. HERRVlaVIIbc [Herring ICES 6a7bc]	TB SSB	ER F	TB SSB	ER F
76. HMACKIIIlla-IVa-Vb-VIa-VII-VIII [Horse mackerel ICES 2a-4a-5b-6a-7-8]	TB SSB	ER F	TB SSB	ER F
77. HMACKIIIlla-IVbc-VIId [Horse mackerel ICES 3a-4bc-7d]	TB SSB	ER F	TB SSB	ER F
78. HMACKIXa [Horse mackerel Portuguese Waters -East]	TB SSB	ER F	TB SSB	ER F
79. KFSHARNEATL [Kitefin shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
80. LGSHARNEATL [Leafscale gulper shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
81. LINGNEATL [Ling Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
82. LSDOGIIIlla-IV-VIId [Lesser spotted dogfish ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
83. LSDOGVIIlabd [Lesser spotted dogfish ICES 8abd]	TB SSB	ER F	TB SSB	ER F
84. LSDOGVIIlc-IXa [Lesser spotted dogfish ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
85. LSDOGVI-VIIabcefghij [Lesser spotted dogfish ICES 6-7abcefghij]	TB SSB	ER F	TB SSB	ER F
86. LSOLEIIIlla-IV-VIId [Lemon sole ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F

87. MACKNEICES [Mackerel ICES Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
88. MEG8c9a [Megrim ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
89. MEGSPPIVa-Vla [Megrim spp ICES 4a-6a]	TB SSB	ER F	TB SSB	ER F
90. MEGSPPVlb [Megrim spp Rockall Bank]	TB SSB	ER F	TB SSB	ER F
91. MEGVII-VIIIabD [Megrim ICES 7-8abD]	TB SSB	ER F	TB SSB	ER F
92. NEPHFU10 [Norway lobster Noup (FU 10)]	TB SSB	ER F	TB SSB	ER F
93. NEPHFU11 [Norway lobster North Minch (FU 11)]	TB SSB	ER F	TB SSB	ER F
94. NEPHFU12 [Norway lobster South Minch (FU 12)]	TB SSB	ER F	TB SSB	ER F
95. NEPHFU13 [Norway lobster Firth of Clyde and Sound of Jura (FU 13)]	TB SSB	ER F	TB SSB	ER F
96. NEPHFU14 [Norway lobster Irish Sea East (FU 14)]	TB SSB	ER F	TB SSB	ER F
97. NEPHFU15 [Norway lobster Irish Sea West (FU 15)]	TB SSB	ER F	TB SSB	ER F
98. NEPHFU16 [Norway lobster Porcupine Bank (FU 16)]	TB SSB	ER F	TB SSB	ER F
99. NEPHFU17 [Norway lobster Aran Grounds (FU 17)]	TB SSB	ER F	TB SSB	ER F
100. NEPHFU19 [Norway lobster South East and West of IRL (FU 19)]	TB SSB	ER F	TB SSB	ER F
101. NEPHFU2021 [Norway lobster Labadie, Jones and Cockburn (FU 20-21)]	TB SSB	ER F	TB SSB	ER F
102. NEPHFU22 [Norway lobster Smalls (FU 22)]	TB SSB	ER F	TB SSB	ER F
103. NEPHFU25 [Norway lobster North Galicia (FU 25)]	TB SSB	ER F	TB SSB	ER F
104. NEPHFU2627 [Norway lobster West Galicia and North Portugal (FU 26-27)]	TB SSB	ER F	TB SSB	ER F
105. NEPHFU2829 [Norway lobster South-West and South Portugal (FU 28-29)]	TB SSB	ER F	TB SSB	ER F
106. NEPHFU30 [Norway lobster Gulf of Cadiz (FU 30)]	TB SSB	ER F	TB SSB	ER F
107. NEPHFU31 [Norway lobster Cantabrian Sea (FU 31)]	TB SSB	ER F	TB SSB	ER F
108. NEPHFU32 [Norway lobster Norwegian Deeps (FU 32)]	TB SSB	ER F	TB SSB	ER F
109. NEPHFU33 [Norway lobster Off Horn Reef (FU 33)]	TB SSB	ER F	TB SSB	ER F
110. NEPHFU34 [Norway lobster Devils Hole (FU 34)]	TB SSB	ER F	TB SSB	ER F
111. NEPHFU3-4 [Norway lobster Skagerak Kattegat (FU 3-4)]	TB SSB	ER F	TB SSB	ER F
112. NEPHFU5 [Norway lobster Botney Cut - Silver Pit (FU 5)]	TB SSB	ER F	TB SSB	ER F
113. NEPHFU6 [Norway lobster Farn Deeps (FU 6)]	TB SSB	ER F	TB SSB	ER F
114. NEPHFU7 [Norway lobster Fladen Ground (FU 7)]	TB SSB	ER F	TB SSB	ER F
115. NEPHFU8 [Norway lobster Firth of Forth (FU 8)]	TB SSB	ER F	TB SSB	ER F
116. NEPHFU9 [Norway lobster Moray Firth (FU 9)]	TB SSB	ER F	TB SSB	ER F
117. NEPHIV [Norway lobster North Sea]	TB SSB	ER F	TB SSB	ER F
118. NEPHVIA [Norway lobster West of Scotland]	TB SSB	ER F	TB SSB	ER F
119. NEPHVII [Norway lobster ICES 7]	TB SSB	ER F	TB SSB	ER F
120. NEPHVIIlab [Norway lobster ICES 8ab]	TB SSB	ER F	TB SSB	ER F
121. NPOUTIIla-IV [Norway pout ICES 3a-4]	TB SSB	ER F	TB SSB	ER F
122. NPOUTVIA [Norway pout West of Scotland]	TB SSB	ER F	TB SSB	ER F
123. OROUGHYNEATL [Orange roughy Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
124. PANDALIIlaW-IVaE [Northern shrimp ICES 3a(west)-4a(east)]	TB SSB	ER F	TB SSB	ER F
125. PANDALIVa [Northern shrimp Northern North Sea]	TB SSB	ER F	TB SSB	ER F
126. PLAIC2123 [European plaice Subdivisions 21-23]	TB SSB	ER F	TB SSB	ER F
127. PLAIC2432 [European plaice Subdivisions 24-32]	TB SSB	ER F	TB SSB	ER F
128. PLAIC7d [European plaice Eastern English Channel]	TB SSB	ER F	TB SSB	ER F
129. PLAICCELT [European plaice Celtic Sea]	TB SSB	ER F	TB SSB	ER F
130. PLAICECHW [European plaice Western English Channel]	TB SSB	ER F	TB SSB	ER F
131. PLAICIS [European plaice Irish Sea]	TB SSB	ER F	TB SSB	ER F

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

180. SPRAYVIIaefgh [Spotted ray ICES 7aefgh]	TB SSB	ER F	TB SSB	ER F
181. SPRAYVIII [Spotted ray Bay of Biscay]	TB SSB	ER F	TB SSB	ER F
182. SPRAYVI-VIIbj [Spotted ray ICES 6-7bj]	TB SSB	ER F	TB SSB	ER F
183. SPURDNEATL [Spurdog Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
184. STRAYII-IIIa-IV [Starry ray ICES 2-3a-4]	TB SSB	ER F	TB SSB	ER F
185. STRMULLIIIa-IV-VIId [Striped red mullet ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
186. STRMULLVI-VIIabcefghijk-VIII-IXa [Striped red mullet ICES 6-7abcefghijk-8-9a]	TB SSB	ER F	TB SSB	ER F
187. STROUT22-32 [Sea trout Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
188. TBSKAIIla-IV-VIId [Thornback skate ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F
189. TBSKAIXa [Thornback skate Portuguese Waters -East]	TB SSB	ER F	TB SSB	ER F
190. TBSKAVI [Thornback skate ICES 6]	TB SSB	ER F	TB SSB	ER F
191. TBSKAVIIaafg [Thornback skate ICES 7afg]	TB SSB	ER F	TB SSB	ER F
192. TBSKAVIIe [Thornback skate Western English Channel]	TB SSB	ER F	TB SSB	ER F
193. TBSKAVIII [Thornback skate Bay of Biscay]	TB SSB	ER F	TB SSB	ER F
194. TPSHARNEATL [Tope shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
195. TUR2232 [Turbot Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
196. TURIlla [Turbot Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
197. TURIV [Turbot North Sea]	TB SSB	ER F	TB SSB	ER F
198. URAYVIIde [Undulate ray ICES 7de]	TB SSB	ER F	TB SSB	ER F
199. URAYVIIlab [Undulate ray ICES 8ab]	TB SSB	ER F	TB SSB	ER F
200. WANGLVIIc-IXa [White anglerfish ICES 8c-9a]	TB SSB	ER F	TB SSB	ER F
201. WANGLVII-VIIlabd [White anglerfish ICES 7-8abd]	TB SSB	ER F	TB SSB	ER F
202. WHITIIlla [Whiting Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
203. WHITNS-VIId [Whiting ICES 4-7d]	TB SSB	ER F	TB SSB	ER F
204. WHITVla [Whiting West of Scotland]	TB SSB	ER F	TB SSB	ER F
205. WHITVlb [Whiting Rockall Bank]	TB SSB	ER F	TB SSB	ER F
206. WHITVIIlla [Whiting Irish Sea]	TB SSB	ER F	TB SSB	ER F
207. WHITVIIbce-k [Whiting Celtic Sea]	TB SSB	ER F	TB SSB	ER F
208. WHITVIII-IXa [Whiting ICES 8-9a]	TB SSB	ER F	TB SSB	ER F
209. WITFLOUNIIlla-IV-VIId [Witch flounder ICES 3a-4-7d]	TB SSB	ER F	TB SSB	ER F

Anchovy Portuguese Waters -East [ANCHIXa]

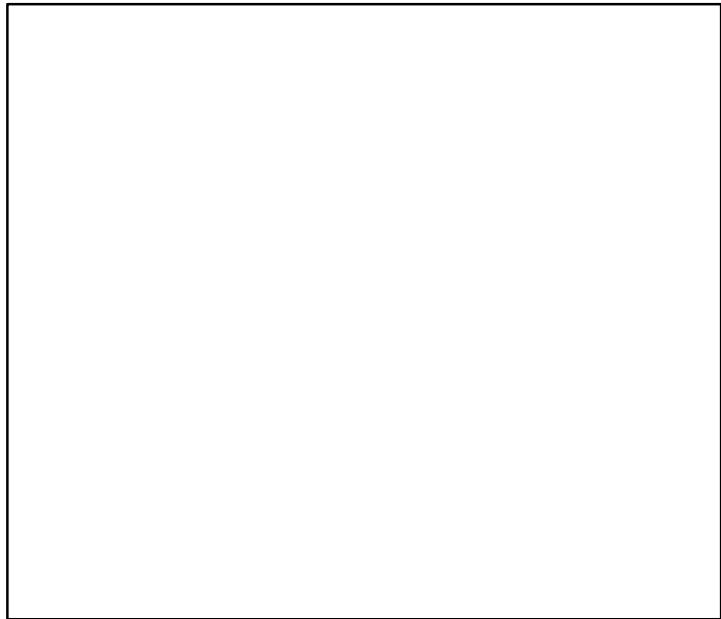
Metadata	
Scientific Name	Engraulis encrasiculus
Current Assess ID	WGHANSA-ANCHIXa-1989-2021-ICESIMP2021-2
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016, 2016, 2018, 2019, 2020, 2021, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	0.52
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	0.32
Flim	-	-	-
ERlim	-	-	-

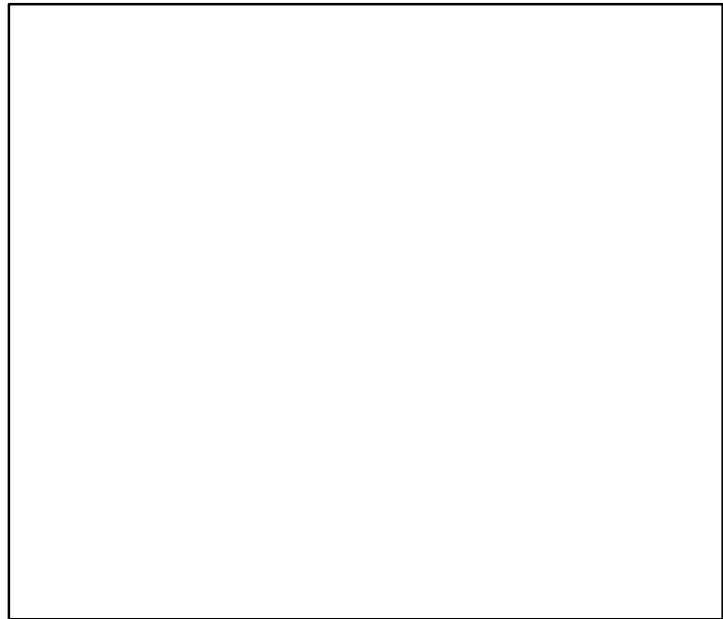
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	0.696	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2021	1.116	-	-
ER	ER-ratio	2016	0.253	-	-
TC	TC-MT	2019	15,799		
TL	TL-MT	2019	15,770		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.338		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Anchovy Portuguese Waters –East [ANCHIXa]

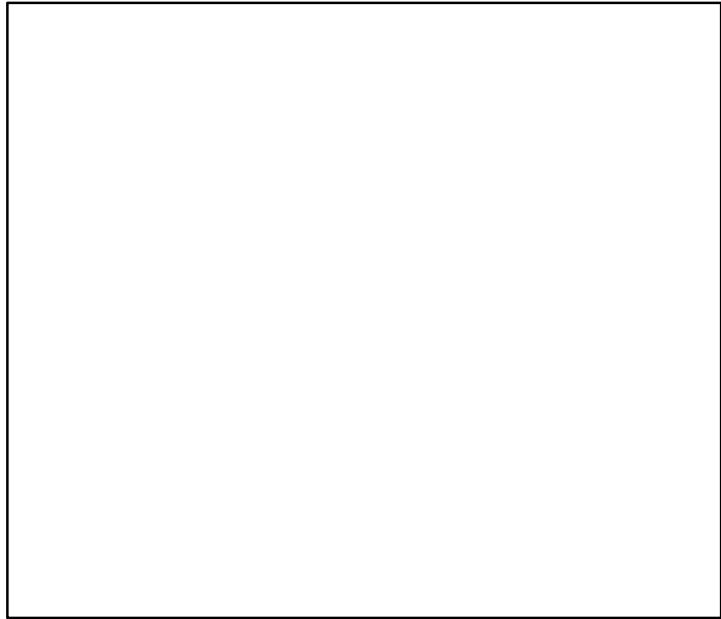
Kobe MSY*



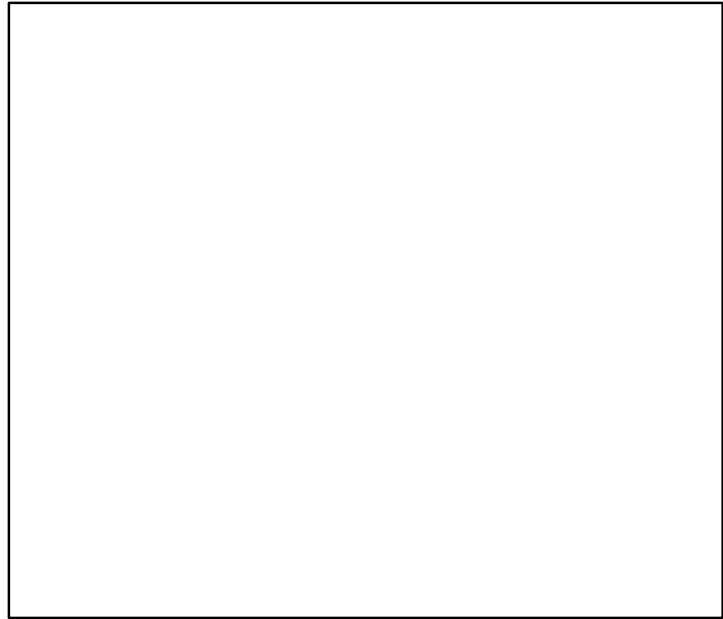
Kobe MGT*



Spawner Recruit*



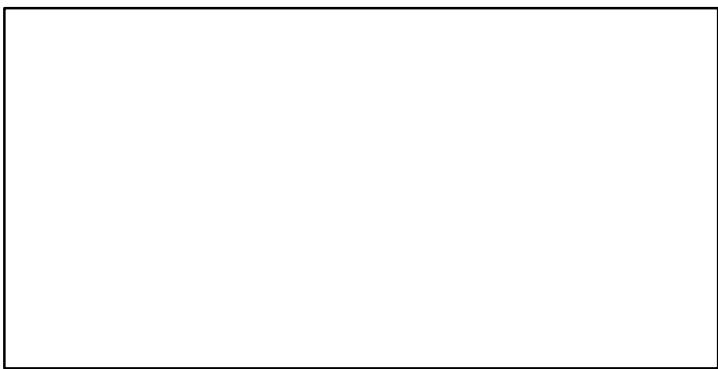
Production*



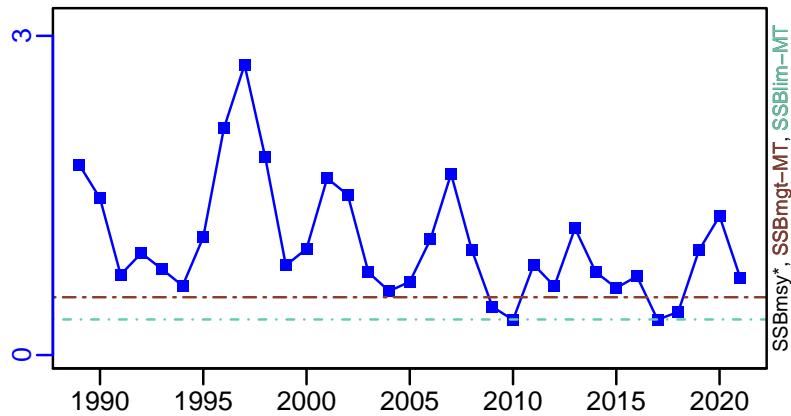
◆ Start Year ◆ End Year * No Data

Anchovy Portuguese Waters –East [ANCHIXa]

TB*



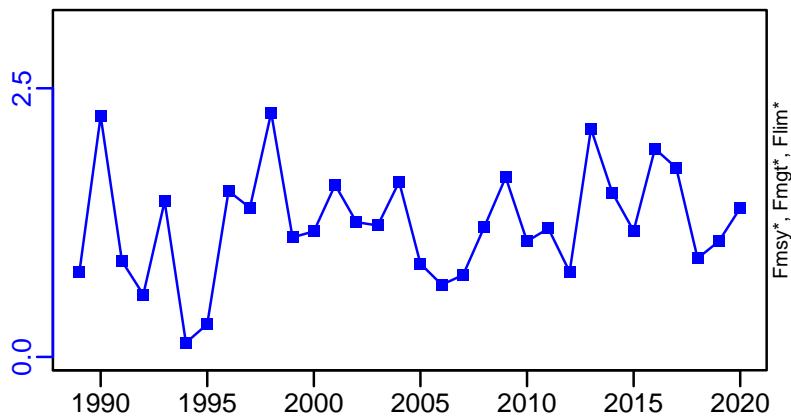
SSB–MT (1989–2021–ICESIMP2021–2)



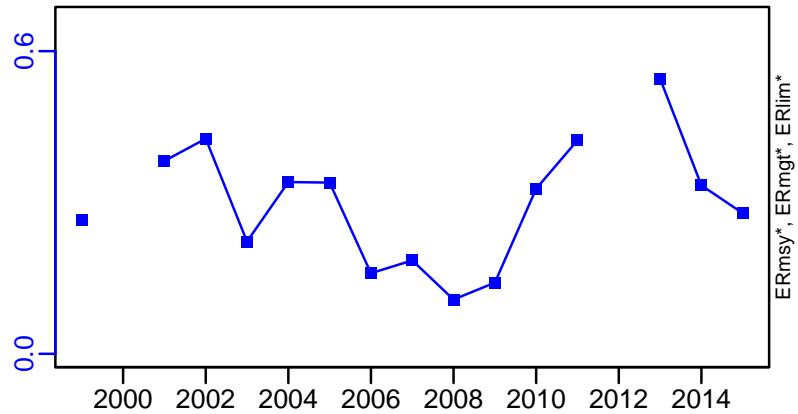
TN *



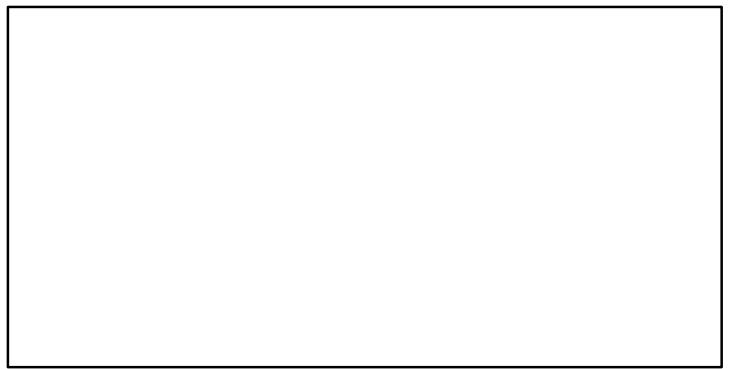
F–1/yr (1989–2021–ICESIMP2021–2)



ER–ratio (1989–2016–ICESIMP2016)



Recruits*

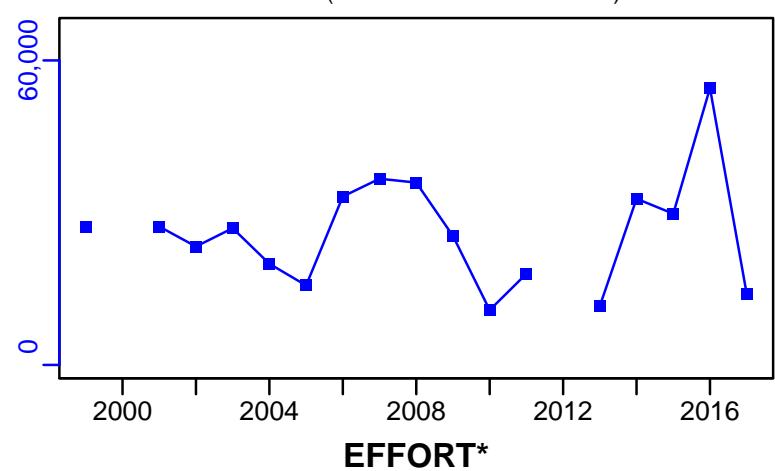
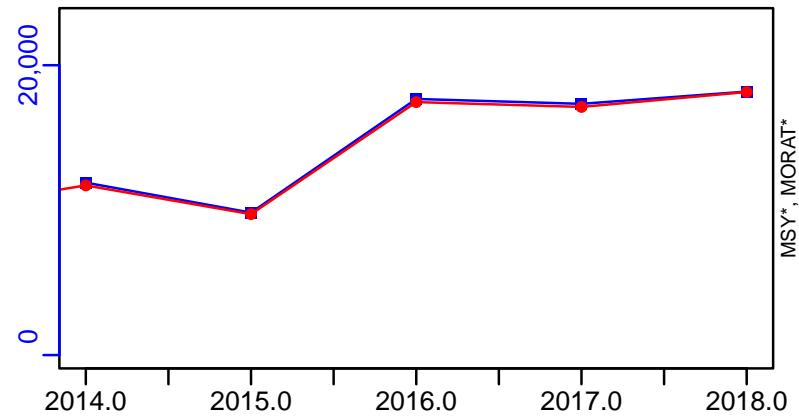


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec–Est |
| — MSY–based BRP | — Lim BRP | * No Data |

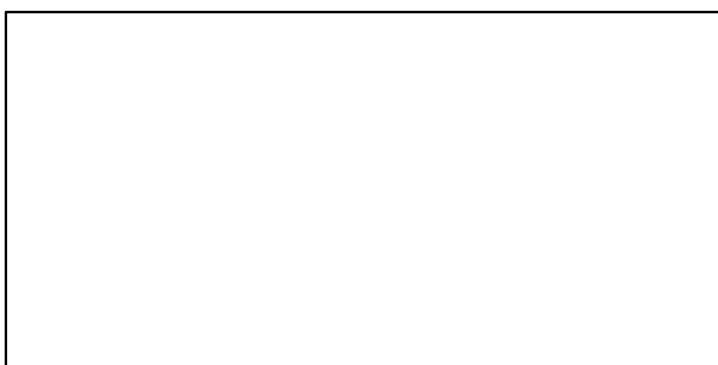
Anchovy Portuguese Waters –East [ANCHIXa]

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

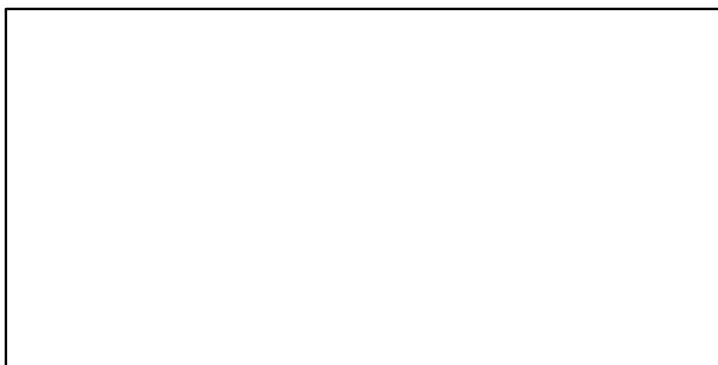
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



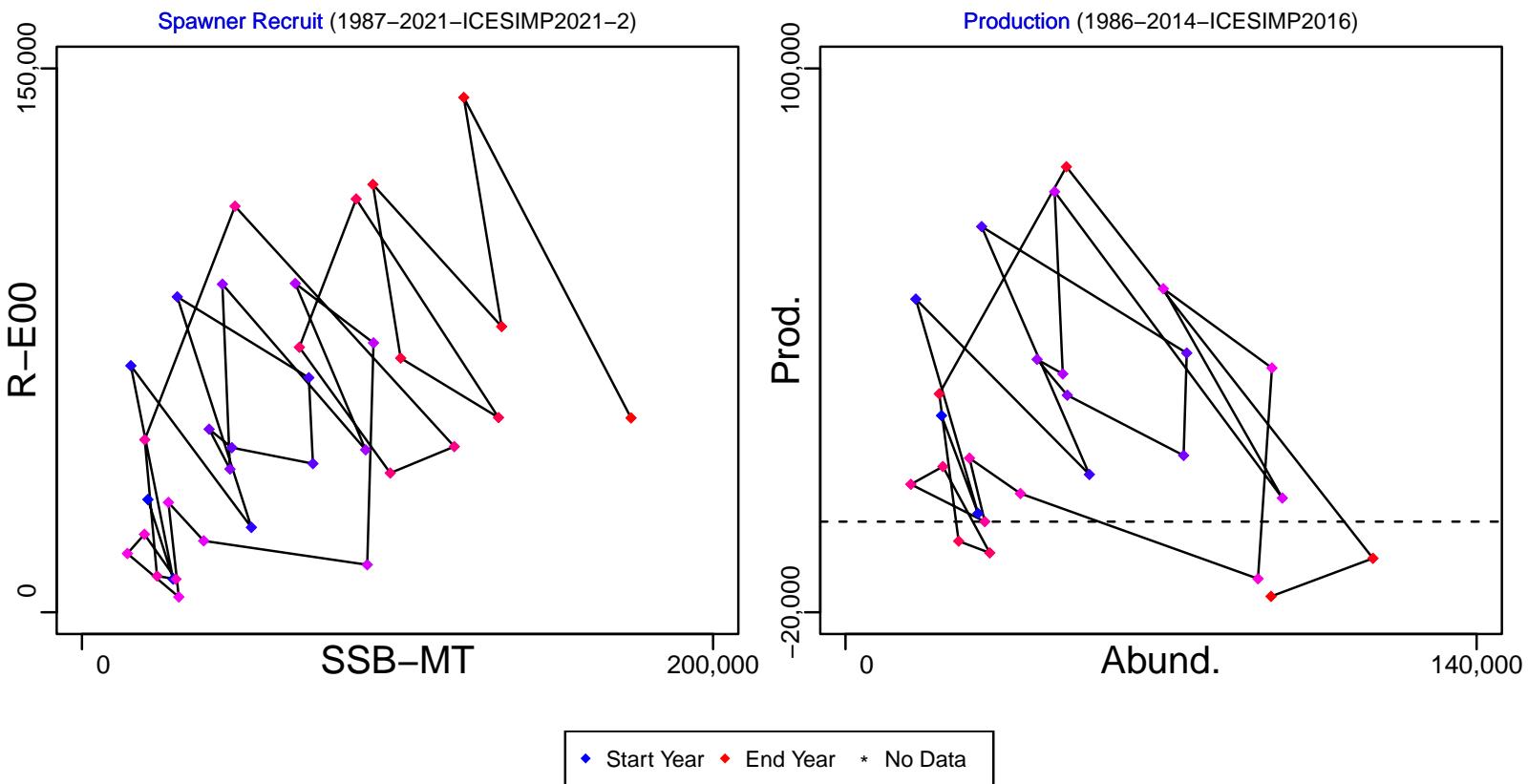
- | | | | |
|---|---|---|--|
| █ 1st listed time series
● 2nd listed time series | ▲ 3rd listed time series
● 2nd listed time series | — MORAT
— MSY | * No Data |
|---|---|---|--|

Anchovy Bay of Biscay [ANCHOBAYB]

Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHOBAYB-1987-2021-ICESIMP2021-2
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, 2021, 2007

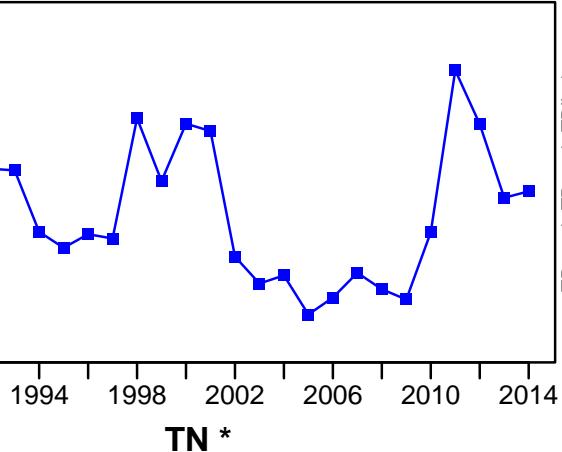
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	89,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	1.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	21,000
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2014	66,200	Both	-	
SSB	SSB-MT	2021	174,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	53,600	-	1	
F	F-relative	2021	0.149	-	-	
ER	ER-ratio	2019	0.184	-	2+	
TC	TC-MT	2021	25,900			
TL	TL-MT	2021	25,200			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.955			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

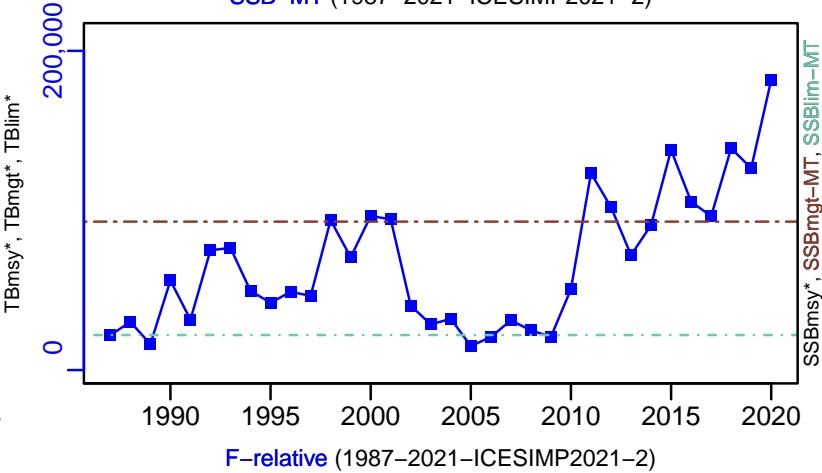
Kobe MSY***Kobe MGT***

Anchovy Bay of Biscay [ANCHOBAYB]

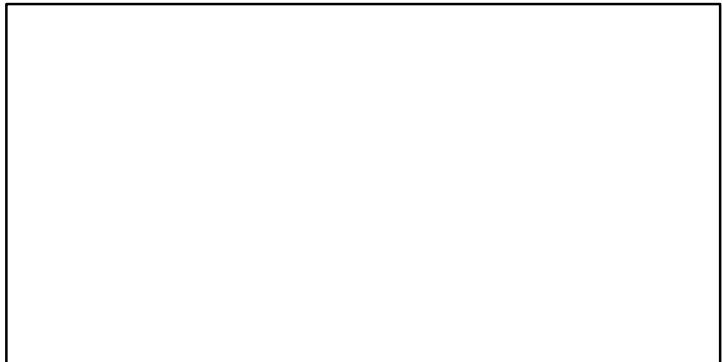
TB-MT (1986–2014–ICESIMP2016)



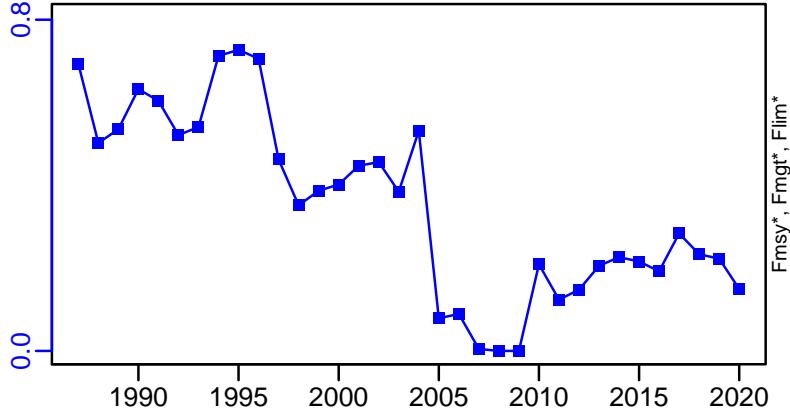
SSB-MT (1987–2021–ICESIMP2021–2)



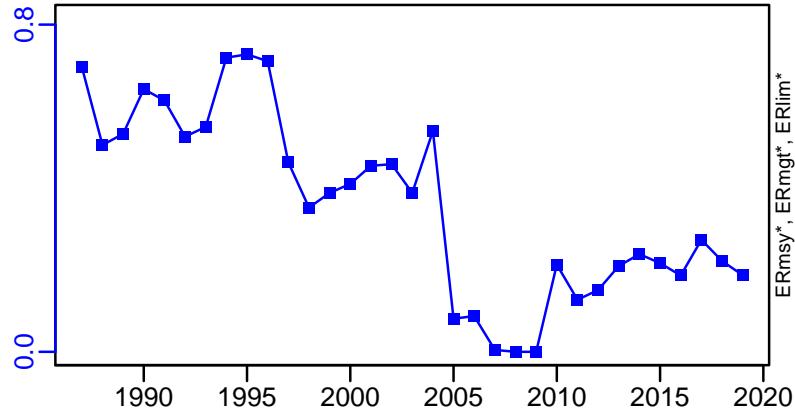
TN *



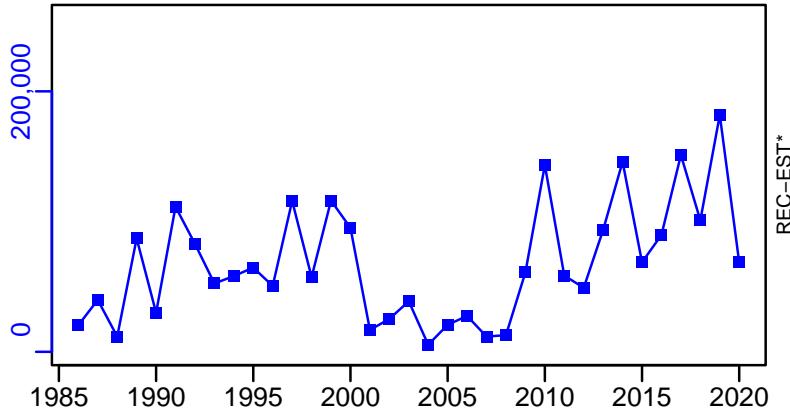
F-relative (1987–2021–ICESIMP2021–2)



ER-ratio (1986–2019–ICESIMP2021)



R-E00 (1987–2021–ICESIMP2021–2)



ERmsy*, ERmg*, ERlim*

Rec-Est
Lim BRP

Listed time series
MSY-based BRP

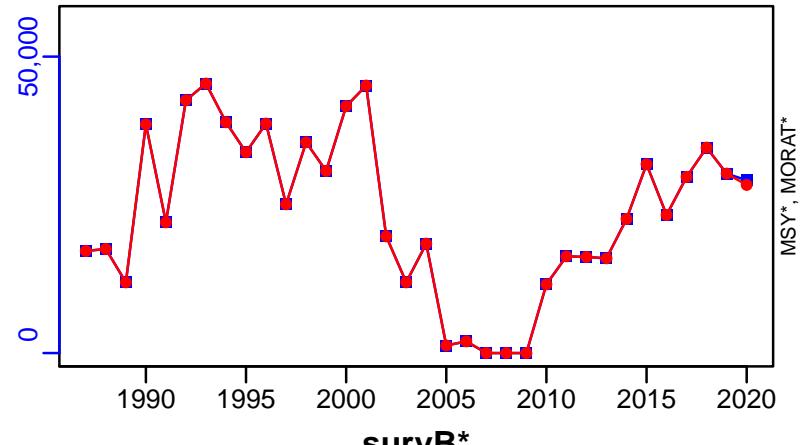
Target BRP
Lim BRP

No Data

Anchovy Bay of Biscay [ANCHOBAYB]

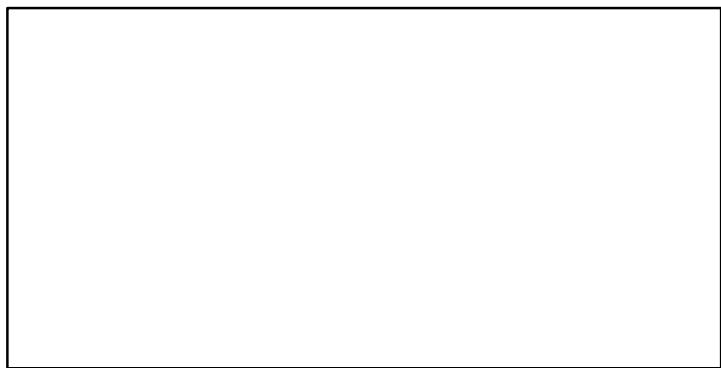
TC-MT, TL-MT, RecC* (1987–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*

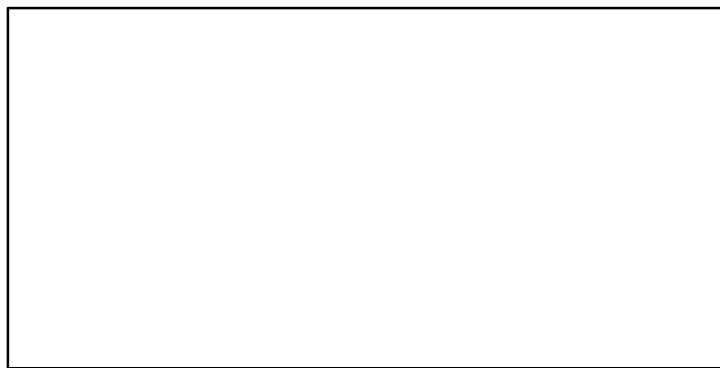


survB*

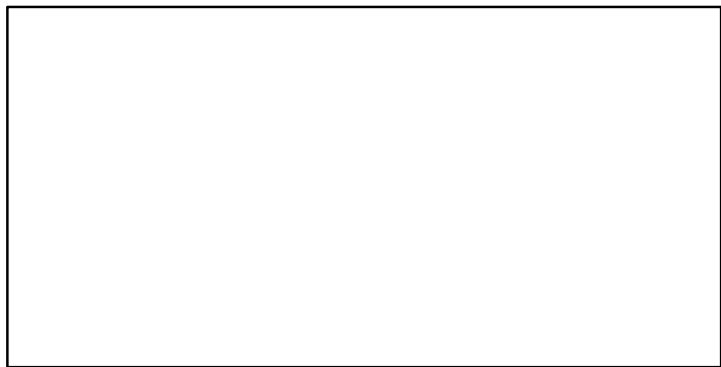
MSY*, MORAT*



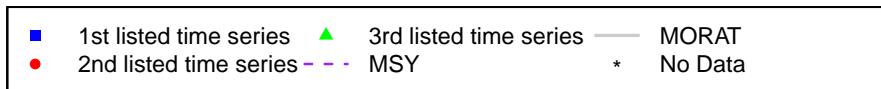
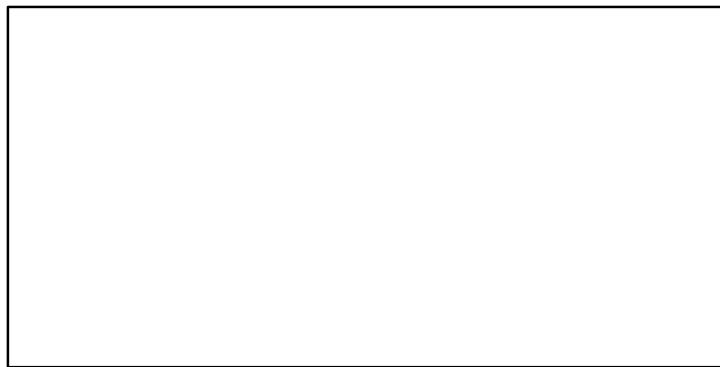
CPUE*



EFFORT*



CdivMSY*



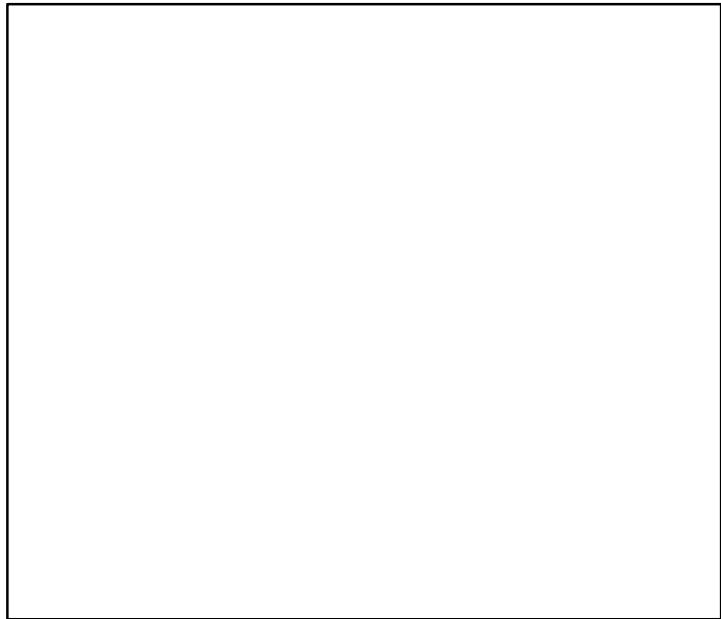
Anglerfish spp ICES 3a-4-6 [ANGLSPPIIIa-IV-VI]

Metadata	
Scientific Name	Lophius spp
Current Assess ID	WGCSE-ANGLSPPIIIa-IV-VI-1991-2019-ICESIMP2021-2
Area	ICES 3a-4-6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2019, 2019

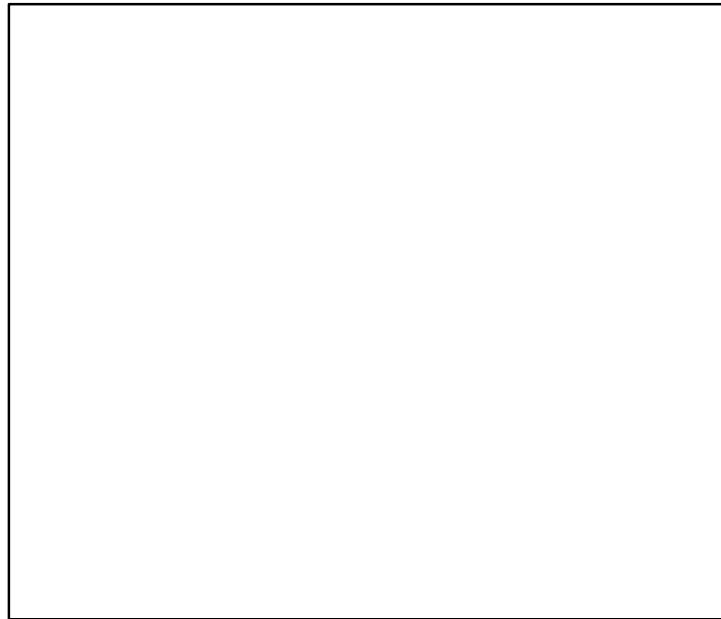
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	-	-	-	-	-	-
TN	-	-	-	-	-	-
R	-	-	-	-	-	-
F	-	-	-	-	-	-
ER	-	-	-	-	-	-
TC	TC-MT	2019	21,400			
TL	TL-MT	2019	21,600			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	ERdivERrmsy-dimensionless	2019	1.216			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

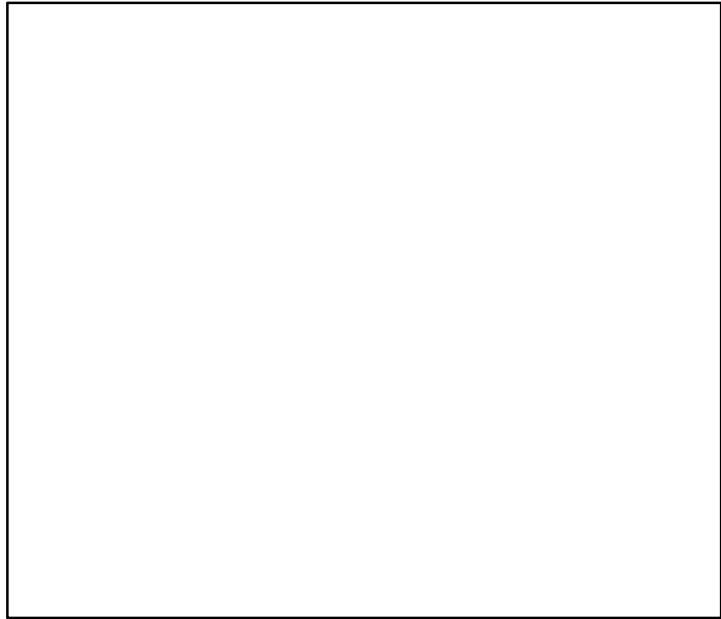
Kobe MSY*



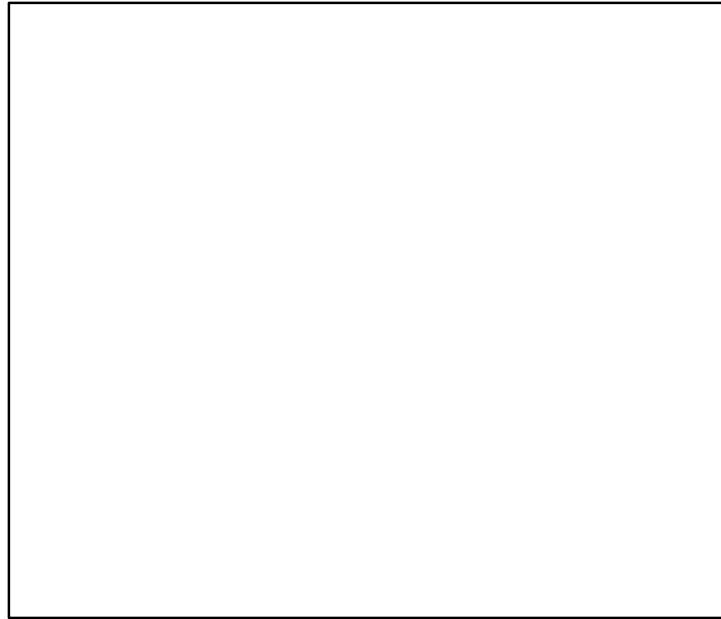
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Anglerfish spp ICES 3a-4-6 [ANGLSPPIIIa-IV-VI]

TB*



SSB*



TN *



F*



ER*



Recruits*

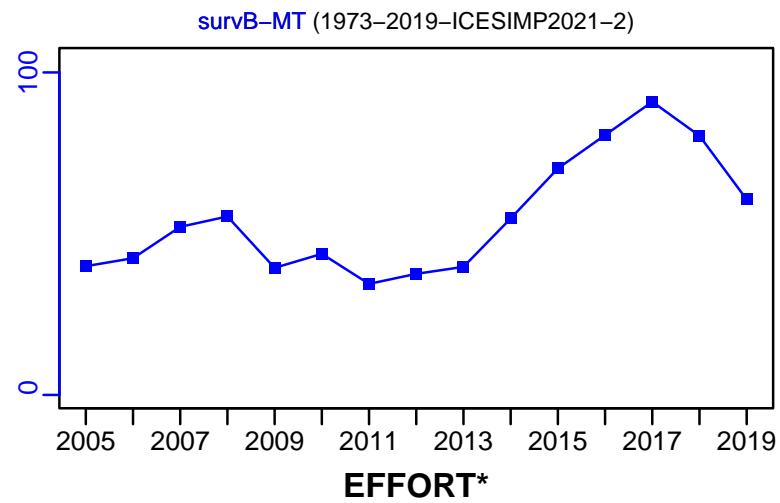
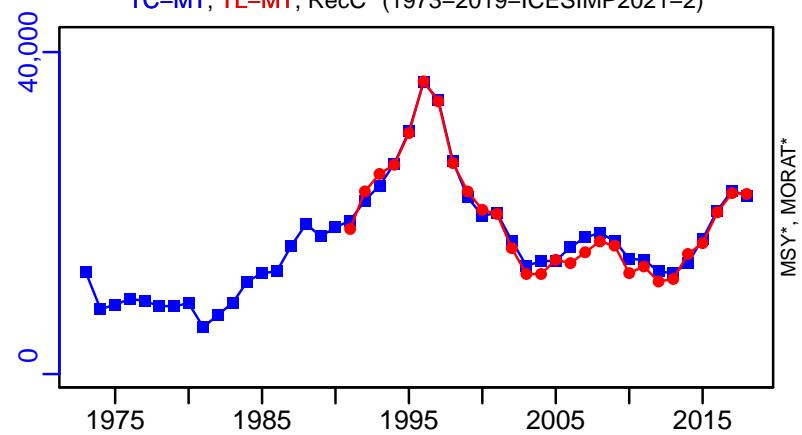


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Anglerfish spp ICES 3a-4-6 [ANGLSPPIIIa-IV-VI]

TC-MT, TL-MT, RecC* (1973–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

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

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

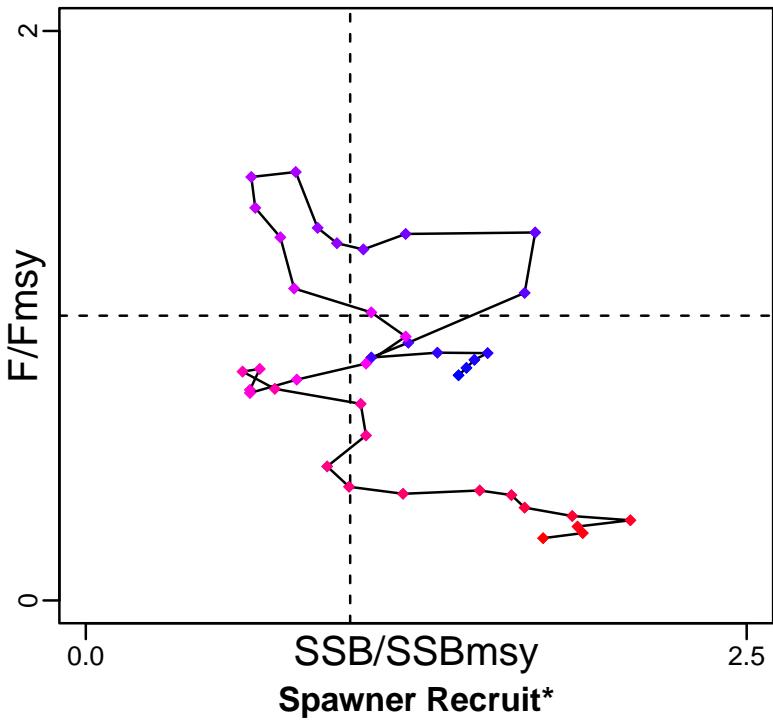
Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVIIIC-IXa-1980-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2019, 2014, 2015, 2016, 2017, 2018, 2020, 2021, 2011, 2012, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBm sy	-	-	-
SSBm sy	-	-	-
Fm sy	-	-	-
ERm sy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2021	0.3
Flim	Flim-relative	2021	1.7
ERlim	-	-	-

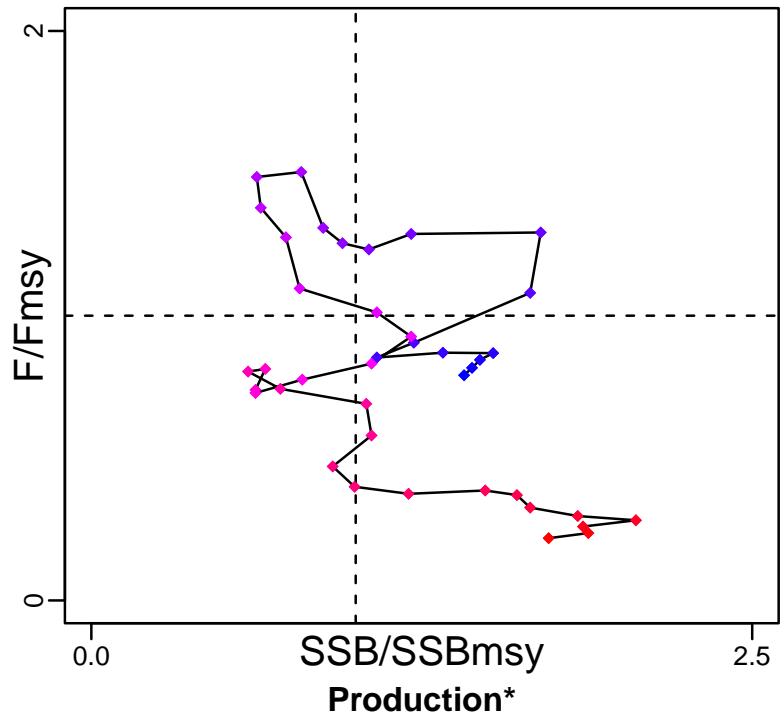
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-relative	2021	1.27	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2021	0.394	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2021	793			
TB/TBm sy	TBdivTBm sy-dimensionless	2017	1.2			
SSB/SSBm sy	SSBdivSSBm sy-dimensionless	2020	1.67			
F/Fm sy	FdivFm sy-dimensionless	2020	0.219			
ER/ERm sy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

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

Kobe MSYpref (1980–2020–ICESIMP2021–2)



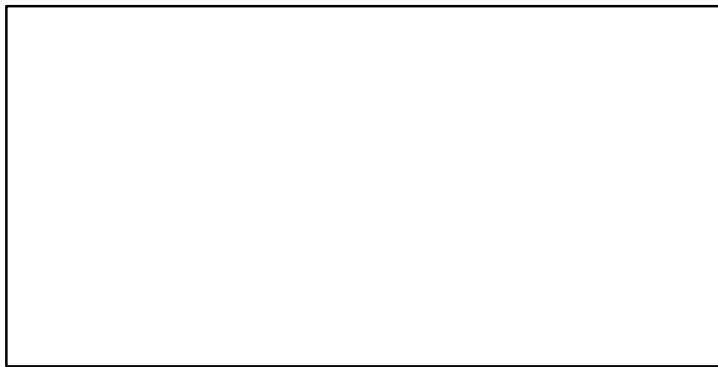
Kobe MGTpref (1980–2020–ICESIMP2021–2)



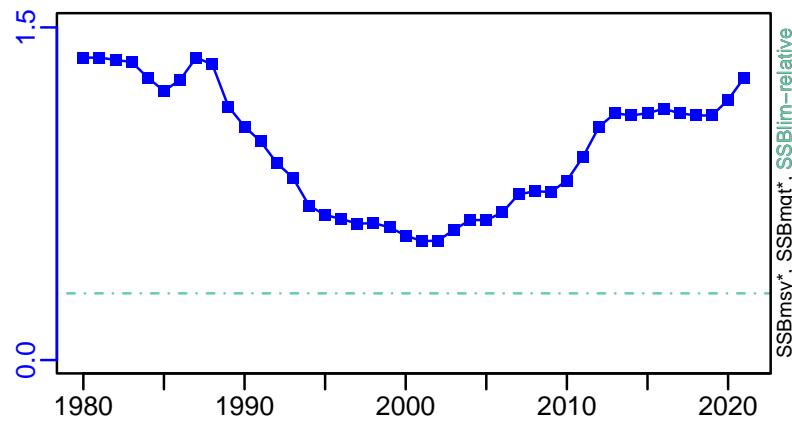
◆ Start Year ◆ End Year * No Data

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

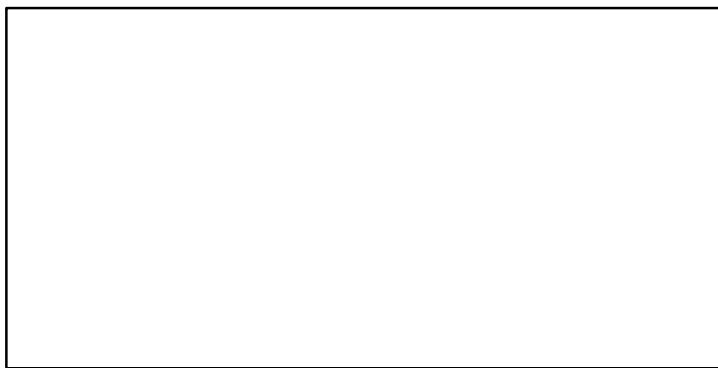
TB*



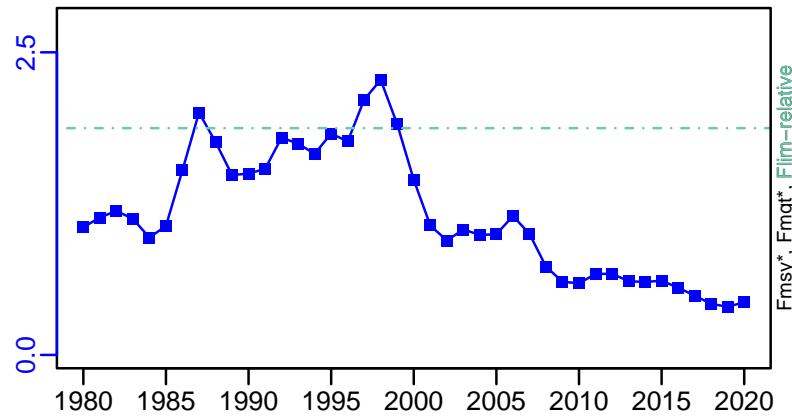
SSB-relative (1980–2021–ICESIMP2021–2)



TN *



F-relative (1980–2021–ICESIMP2021–2)



ER*



Recruits*

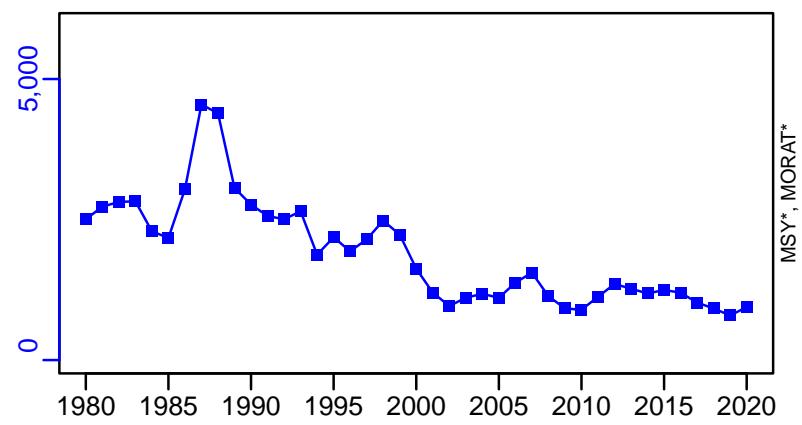


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

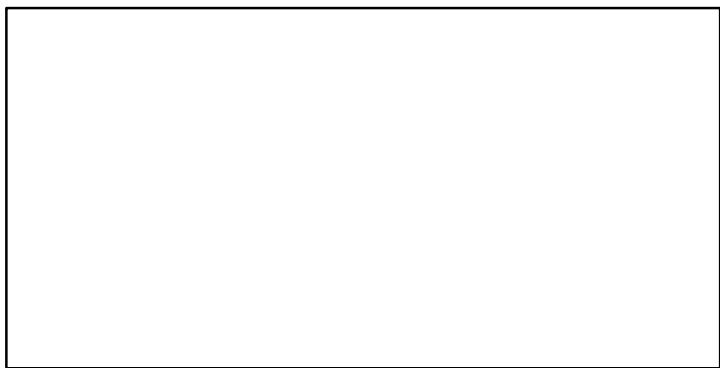
Black bellied angler ICES 8c–9a [ANGLVIIIC–IXa]

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

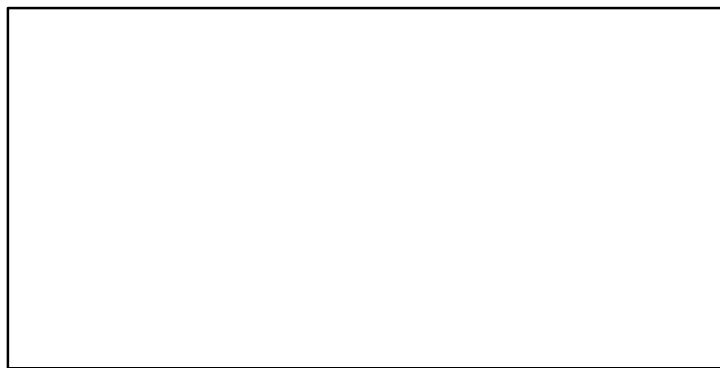
TAC*, Cpair*, Cadv*



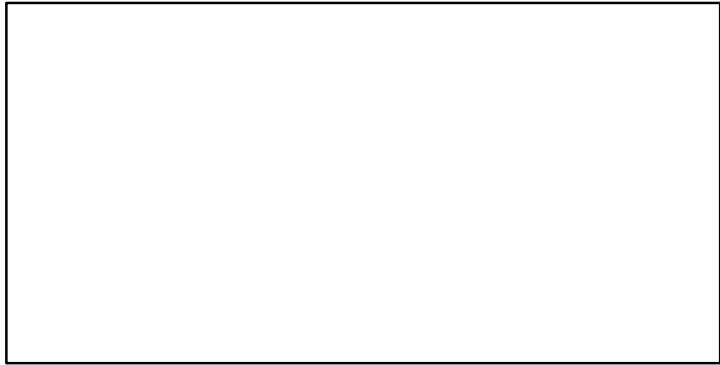
survB*



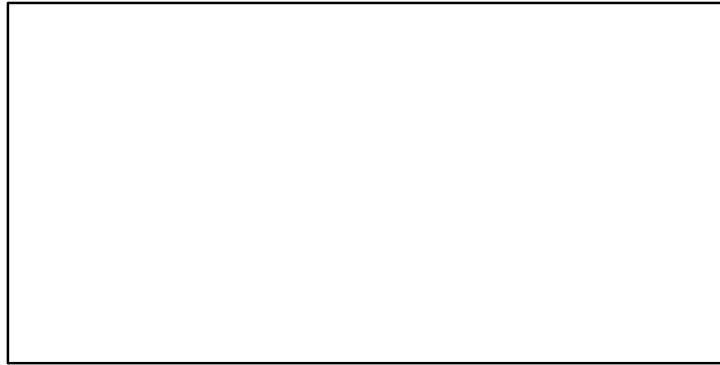
CPUE*



EFFORT*



CdivMSY*



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

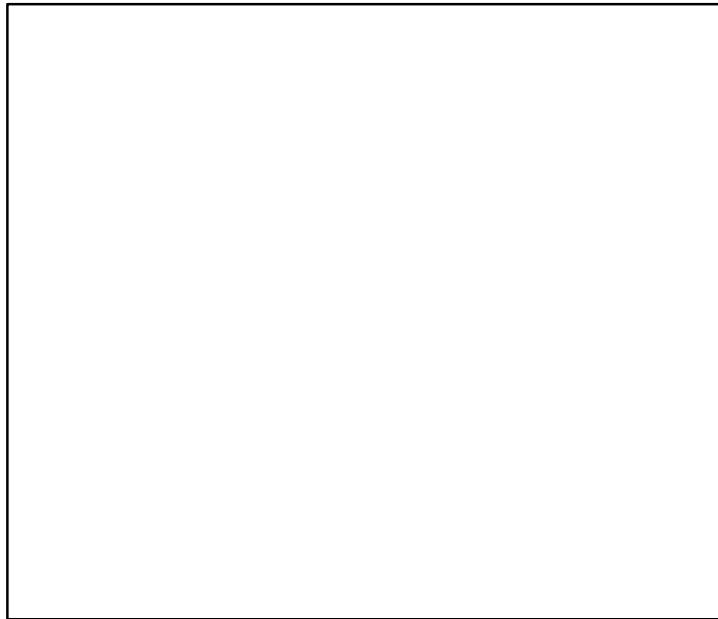
Black bellied angler ICES 7-8abd [ANGLVII-VIIIabd]

Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVII-VIIIabd-1986-2020-ICESIMP2021-2
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2018, 2019, 2020

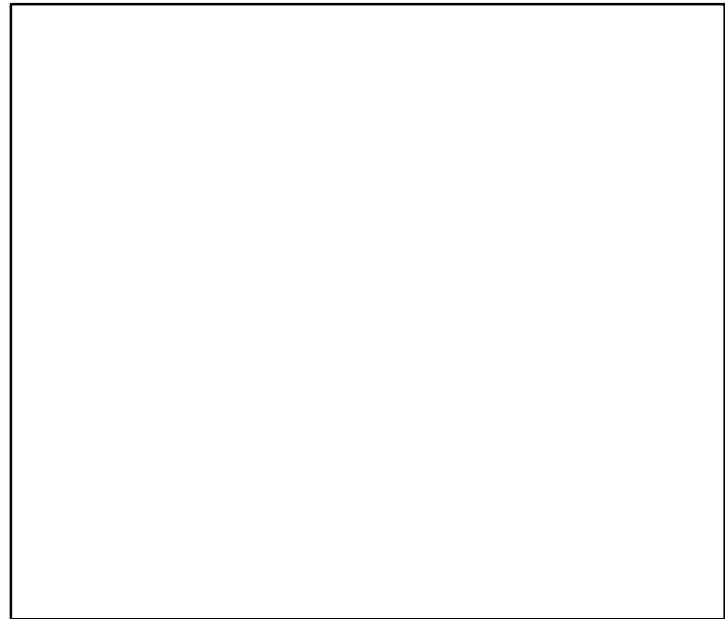
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	R-index	2020	7	-	-	
F	F-1/yr	2018	0.729	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2020	9530			
TL	TL-MT	2020	8680			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2020	0.511			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

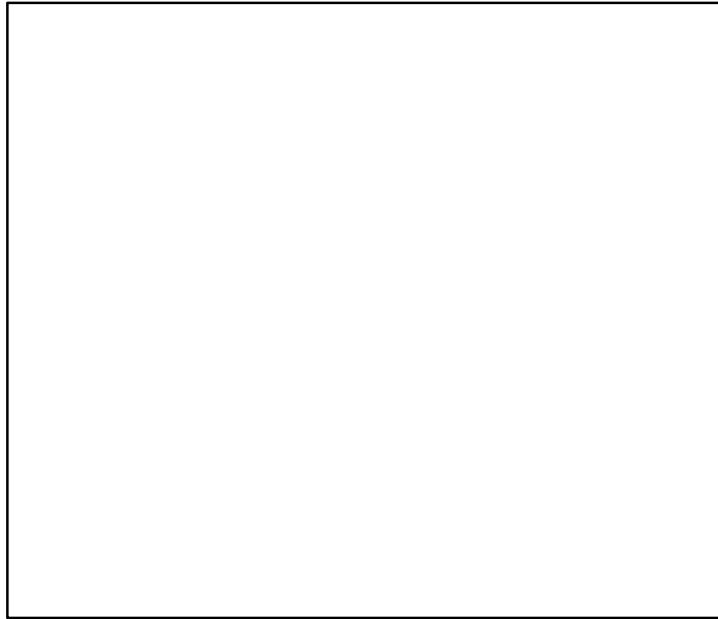
Kobe MSY*



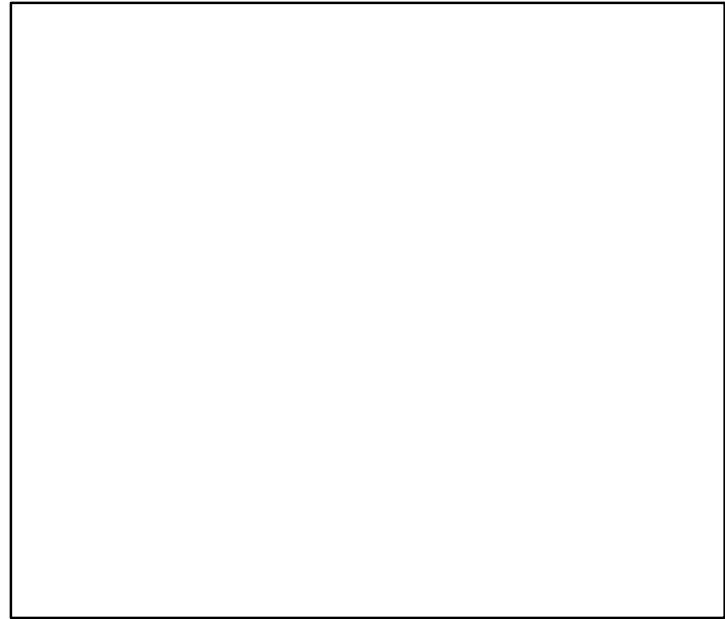
Kobe MGT*



Spawner Recruit*



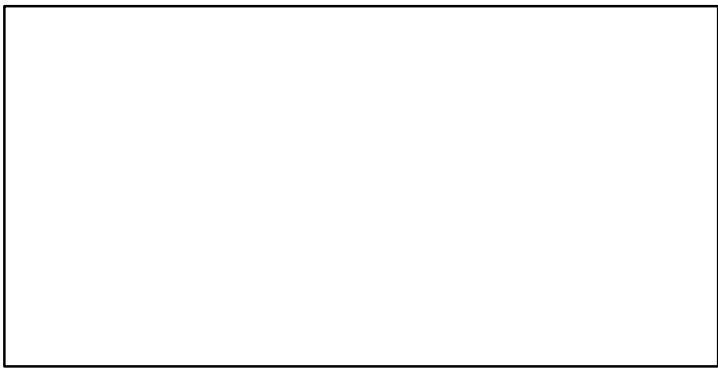
Production*



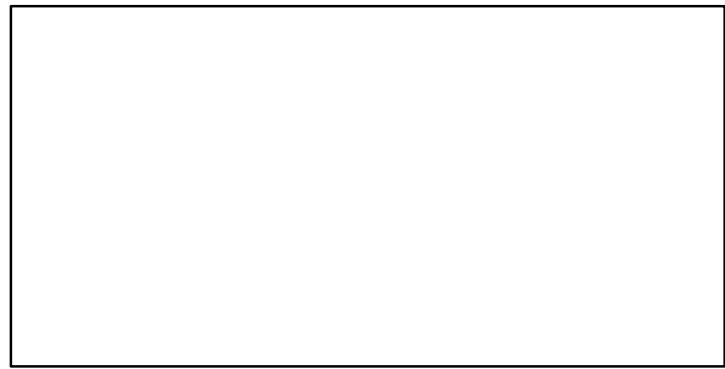
◆ Start Year ♦ End Year * No Data

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

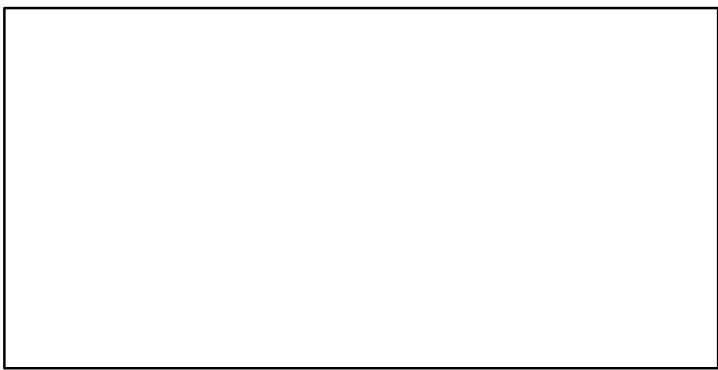
TB*



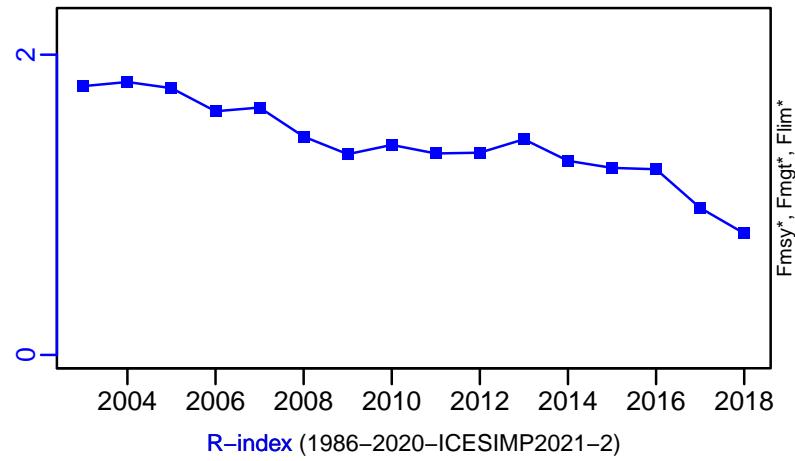
SSB*



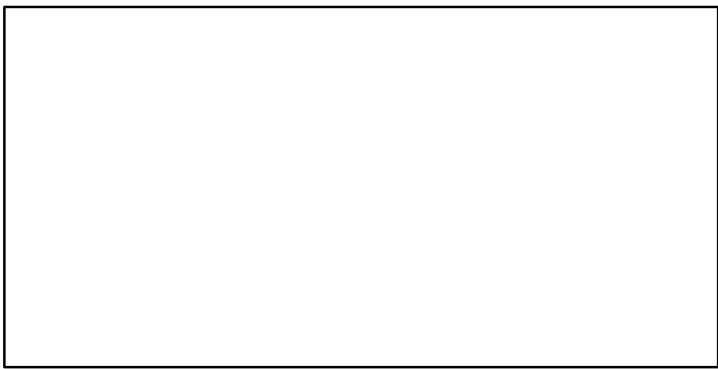
TN *



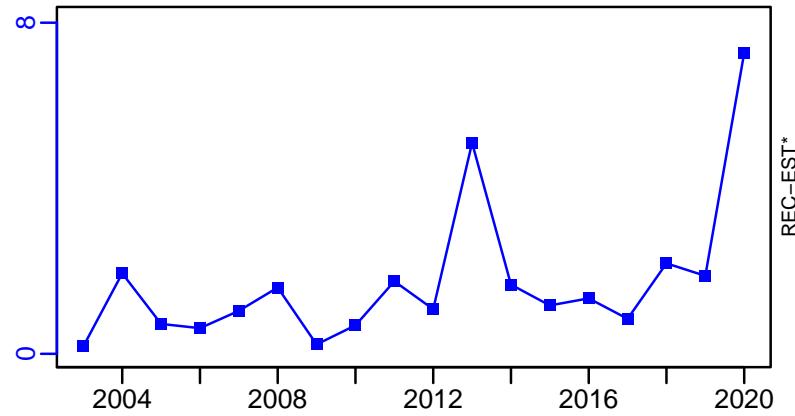
F-1/yr (1986–2018–ICESIMP2021)



ER*



R-index (1986–2020–ICESIMP2021–2)

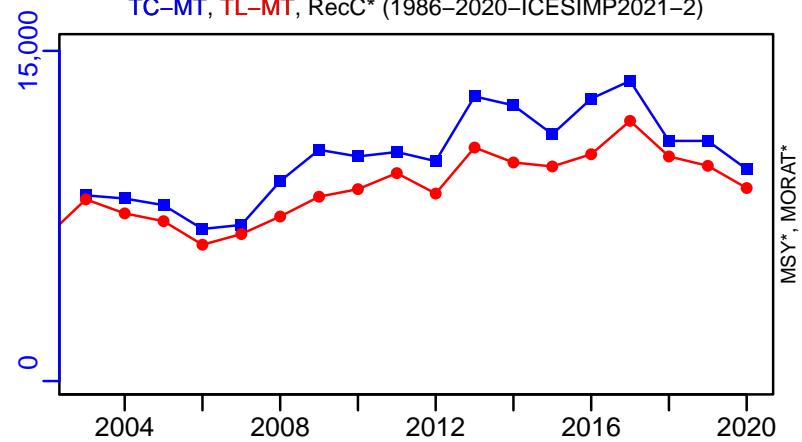


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

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

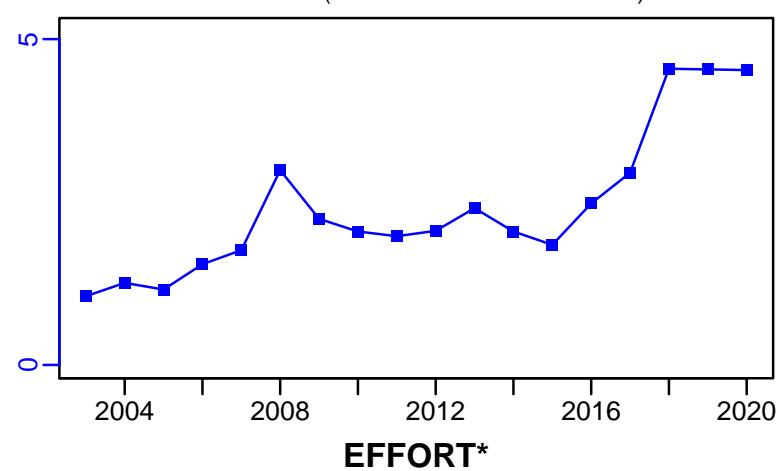
TC–MT, TL–MT, RecC* (1986–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB-index (1986–2020–ICESIMP2021–2)

CPUE*



EFFORT*

CdivMSY*



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

Angel shark Northeast Atlantic [ASHARNEATL]

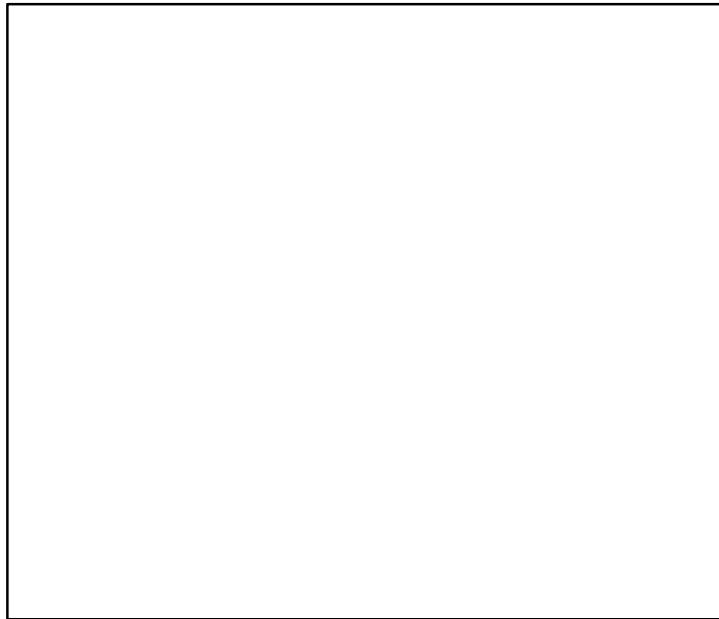
Metadata	
Scientific Name	Squatina squatina
Current Assess ID	WGEF-ASHARNEATL-1973-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2011, 2018

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

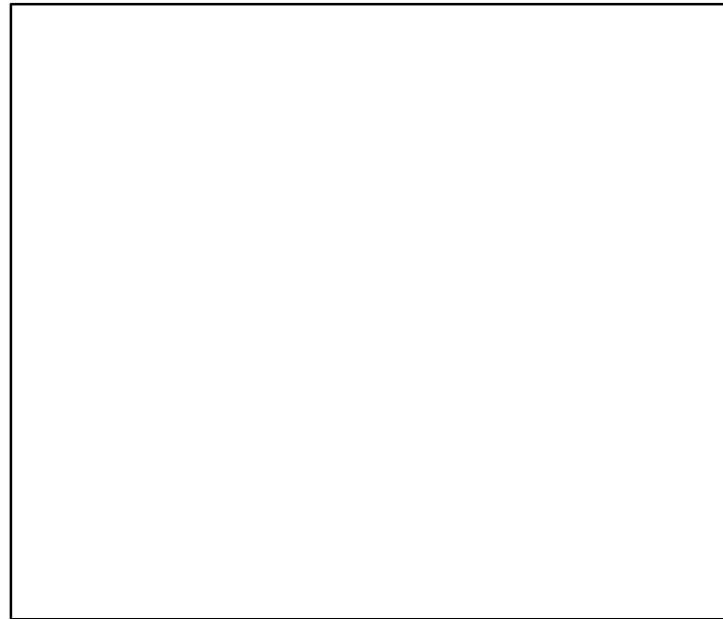
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Angel shark Northeast Atlantic [ASHARNEATL]

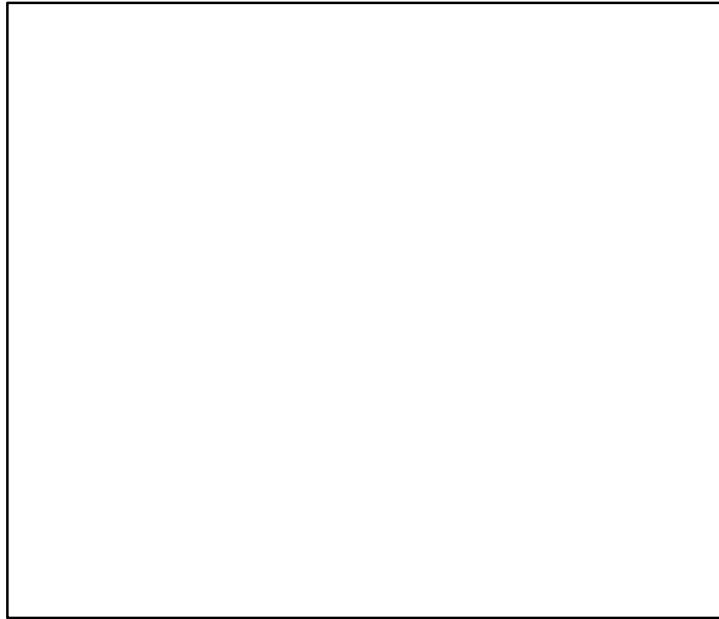
Kobe MSY*



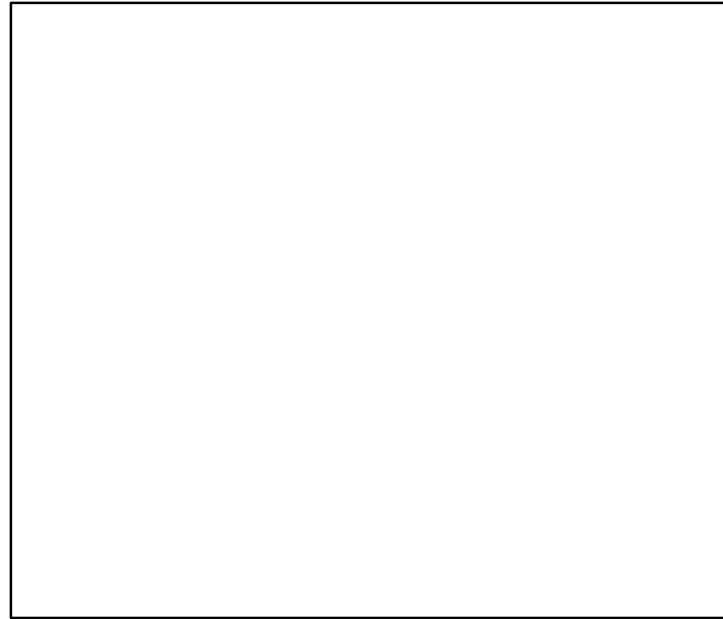
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Angel shark Northeast Atlantic [ASHARNEATL]

TB*



SSB*



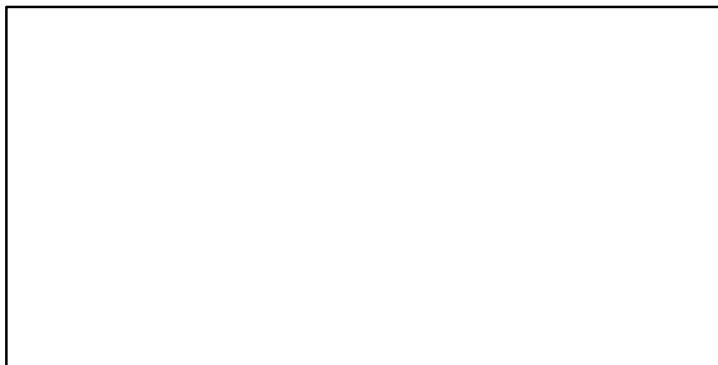
TN *



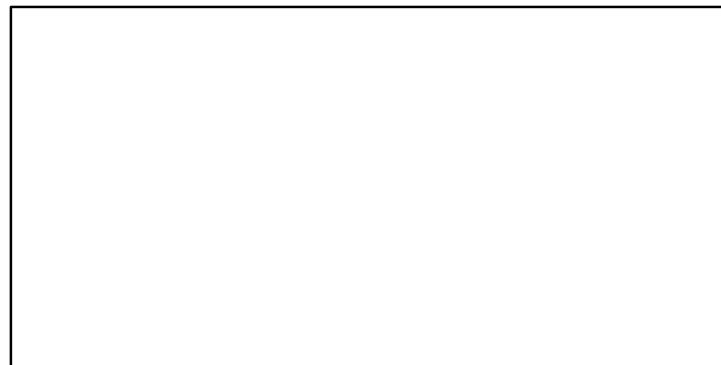
F*



ER*



Recruits*

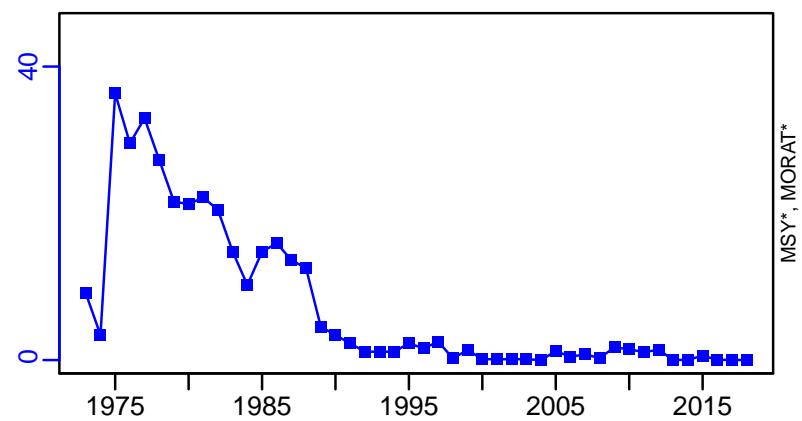


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Angel shark Northeast Atlantic [ASHARNEATL]

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

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

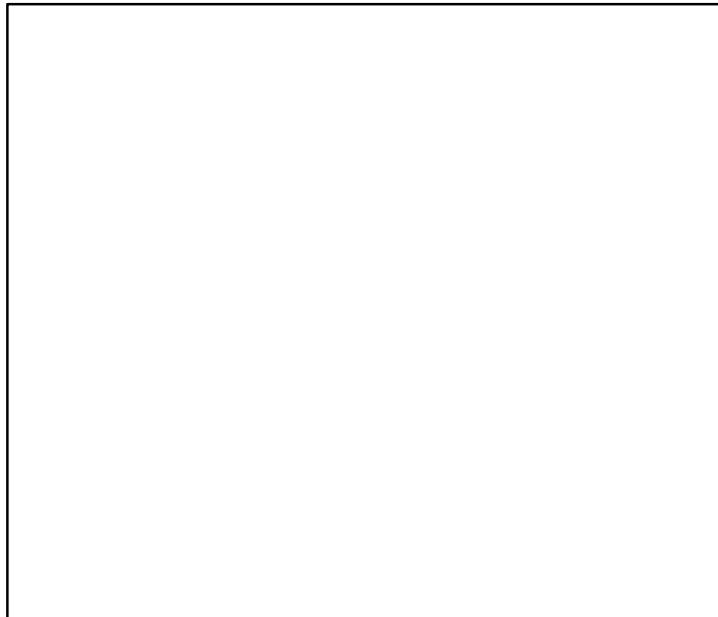
Beryx spp Northeast Atlantic [BERYXSPPNEATL]

Metadata	
Scientific Name	Beryx spp
Current Assess ID	WGDEEP-BERYXSPPNEATL-1988-2019-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2017, 2019

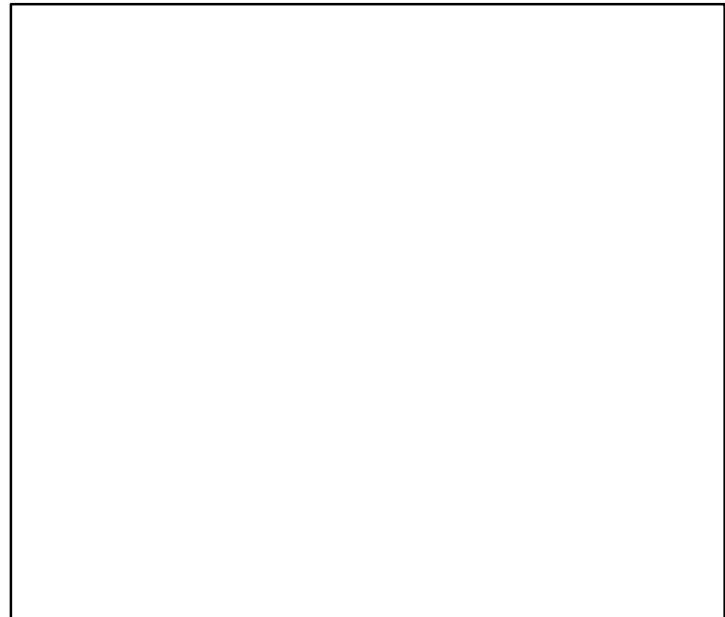
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	294		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



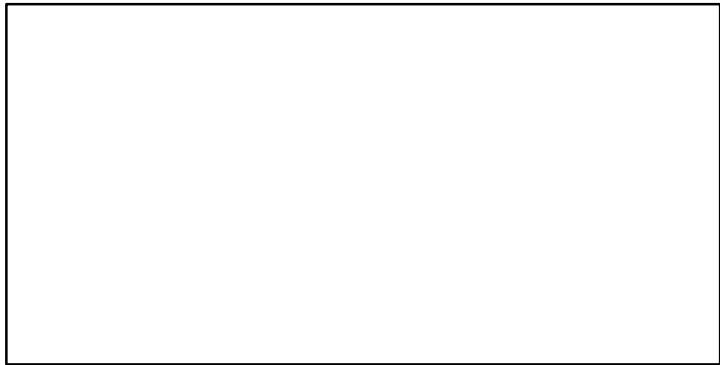
Production*



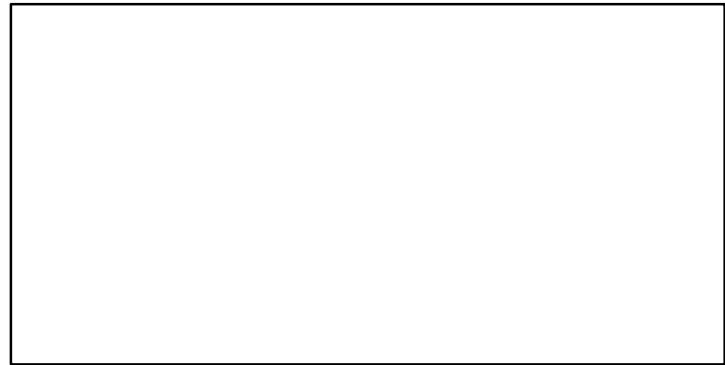
◆ Start Year ♦ End Year * No Data

Beryx spp Northeast Atlantic [BERYXSPPNEATL]

TB*



SSB*



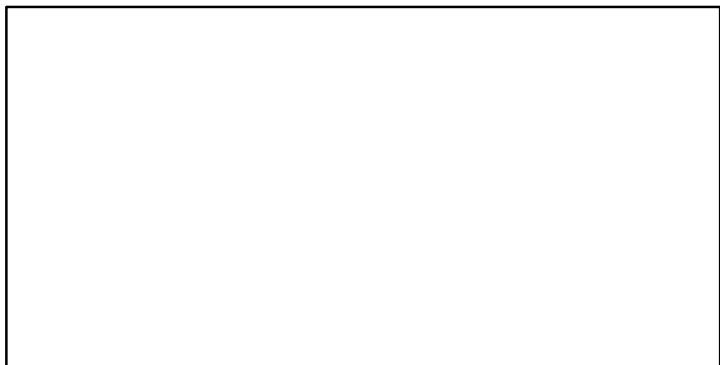
TN *



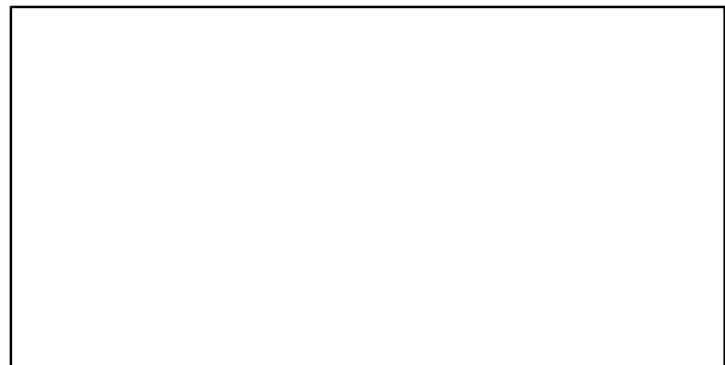
F*



ER*



Recruits*

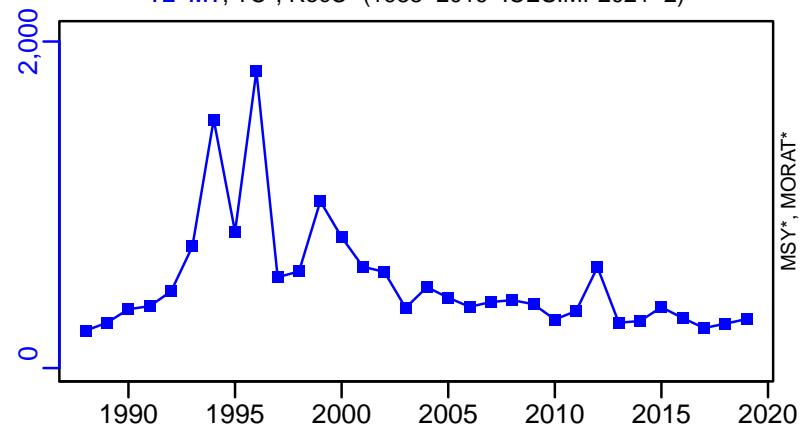


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Beryx spp Northeast Atlantic [BERYXSPPNEATL]

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

TAC*, Cpair*, Cadv*

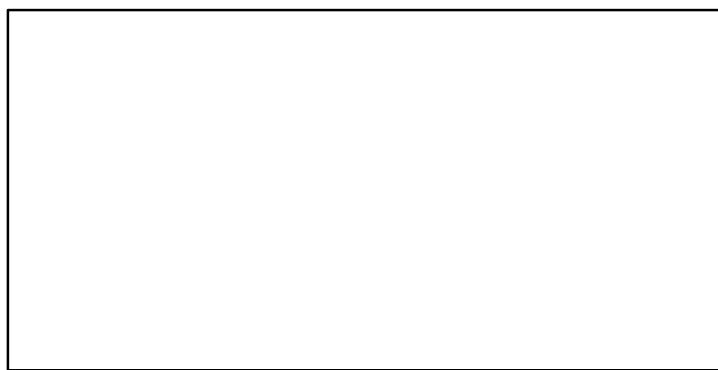


survB*

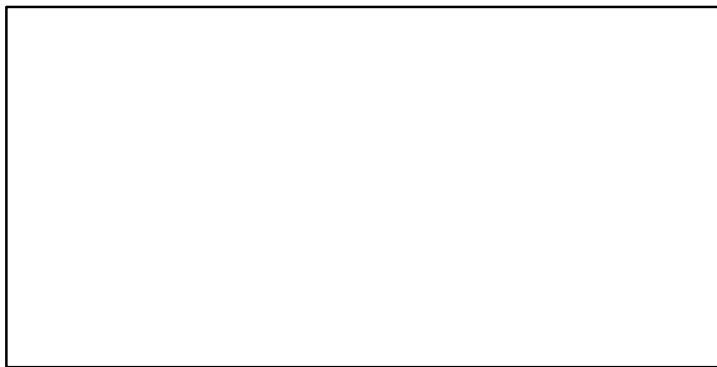
MSY*, MORAT*



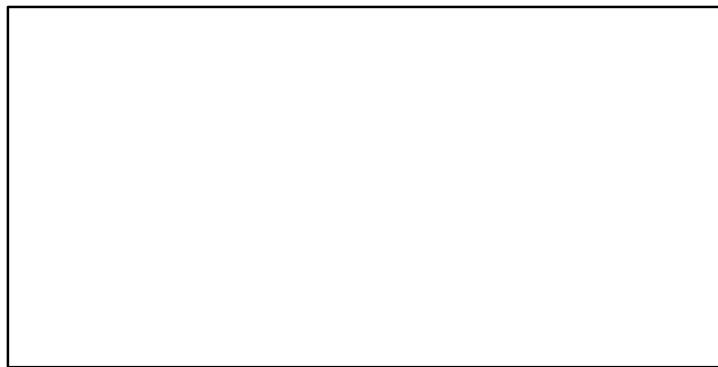
CPUE*



EFFORT*



CdivMSY*



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

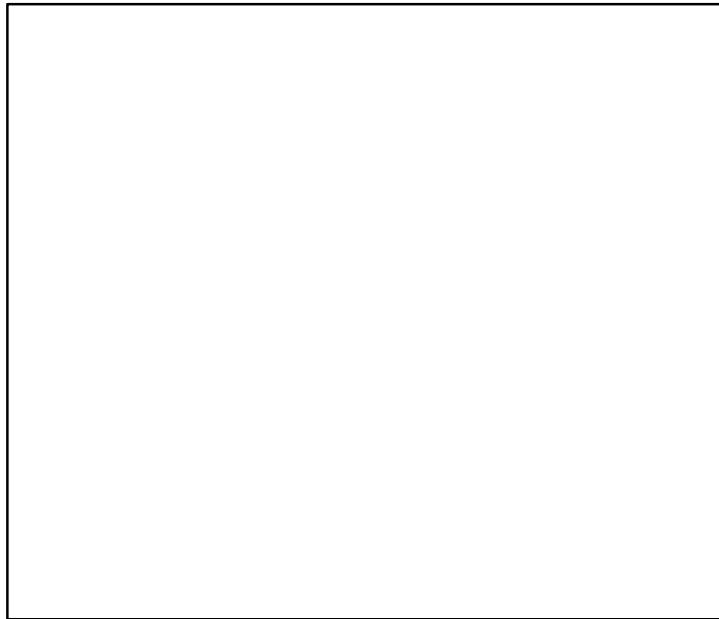
Baltic flounder Subdivisions 27 and 29-32 [BFLOUN27-2932]

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

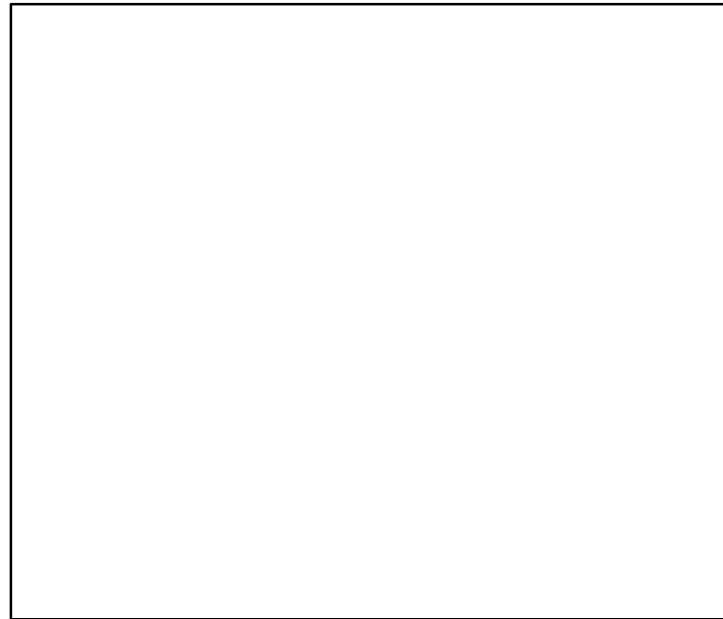
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

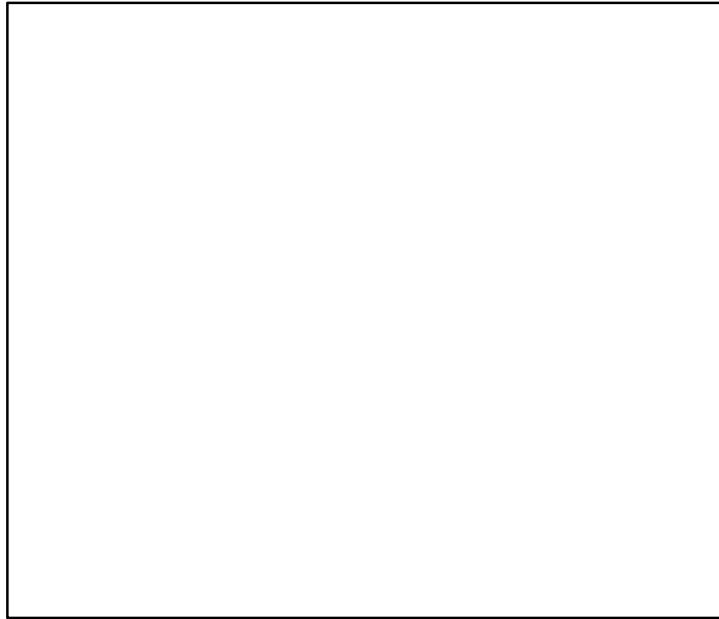
Kobe MSY*



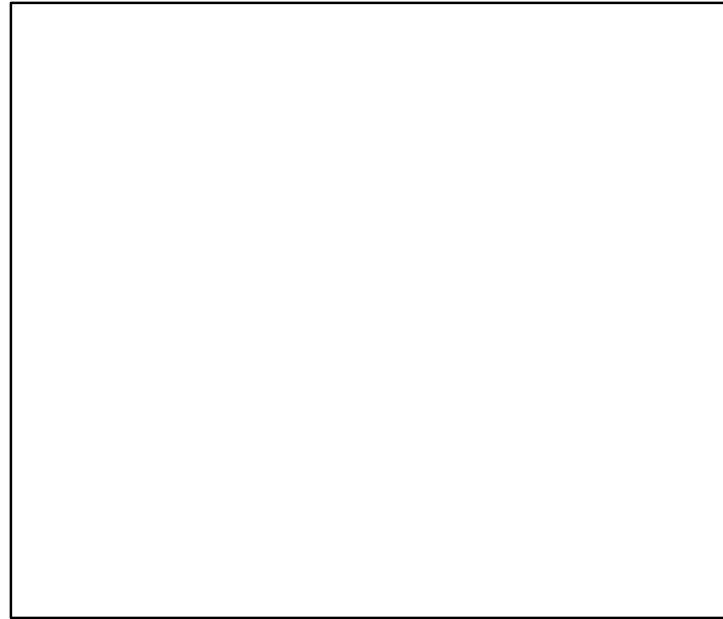
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

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

TB*



SSB*



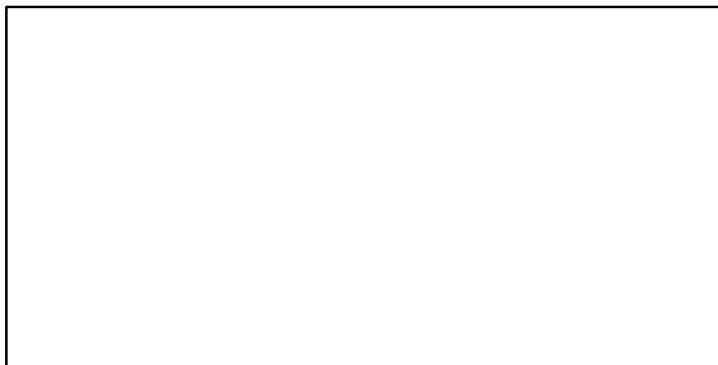
TN *



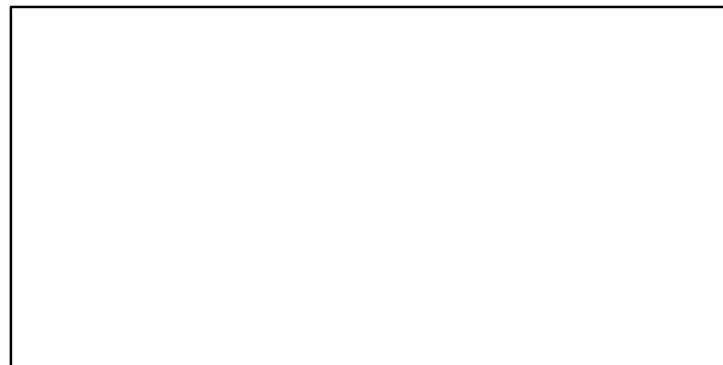
F*



ER*



Recruits*

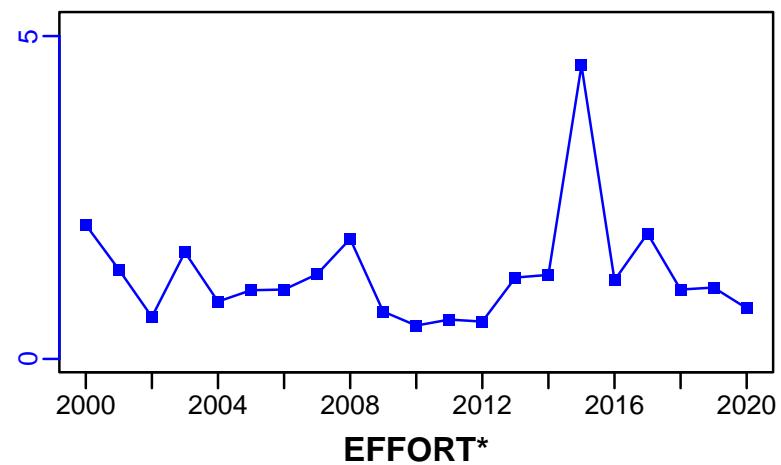
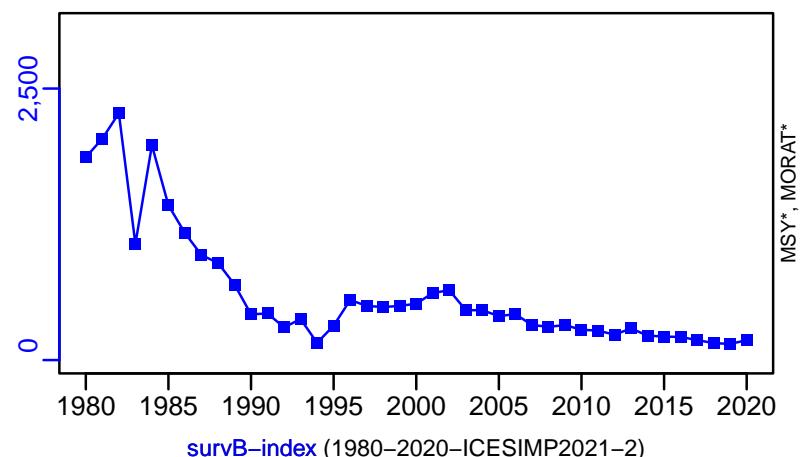


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

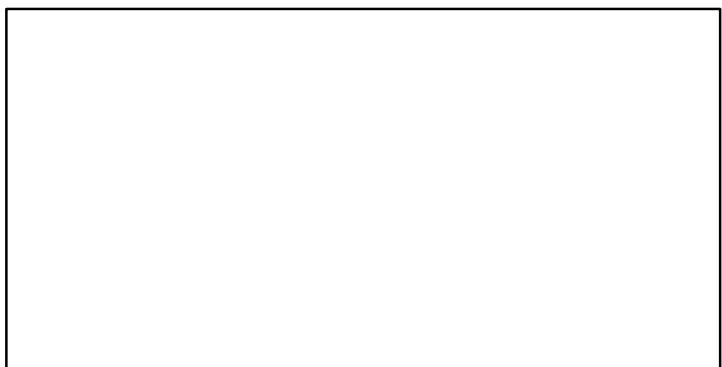
Baltic flounder Subdivisions 27 and 29–32 [BFLOUN27–2932]

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

TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

Blue jack mackerel Azores [BJMACKXa2]

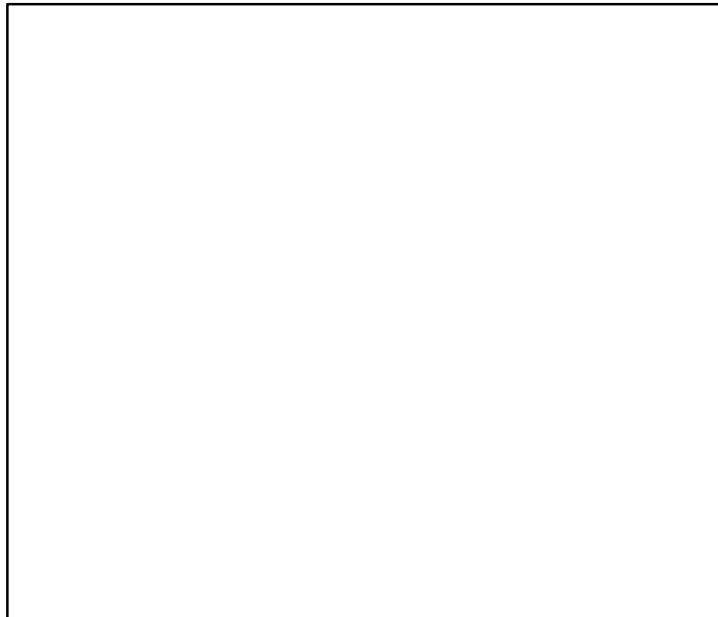
Metadata	
Scientific Name	Trachurus picturatus
Current Assess ID	WGHANSA-BJMACKXa2-1978-2017-ICESIMP2018
Area	Azores
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016, 2017

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

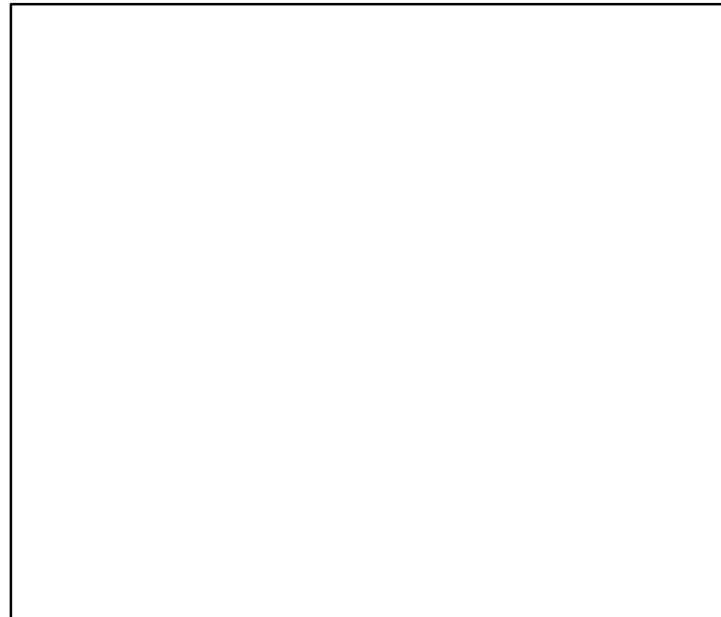
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1140		
TL	TL-MT	2017	991		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Blue jack mackerel Azores [BJMACKXa2]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Blue jack mackerel Azores [BJMACKXa2]

TB*



SSB*



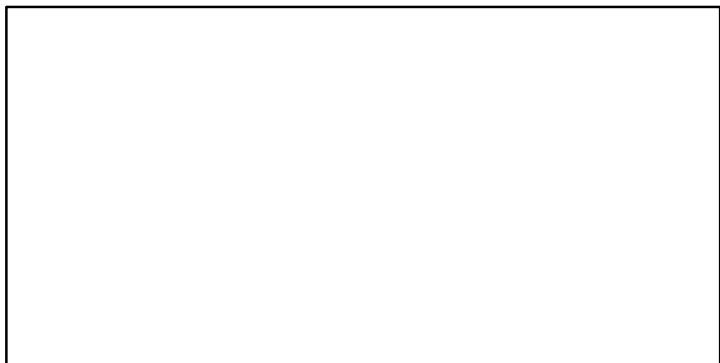
TN *



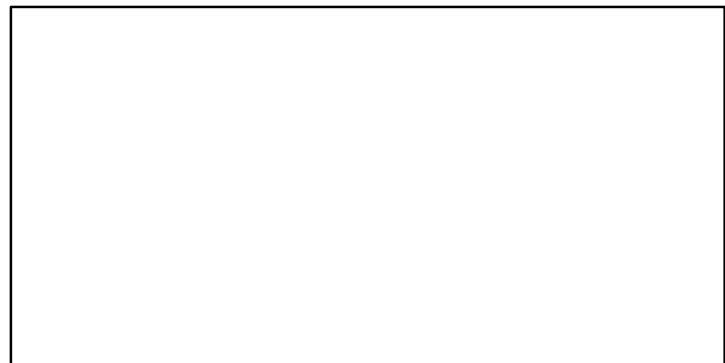
F*



ER*



Recruits*

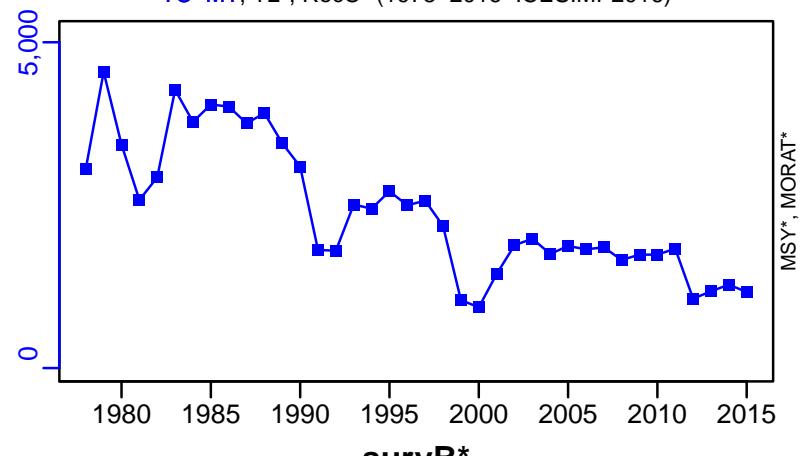


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Blue jack mackerel Azores [BJMACKXa2]

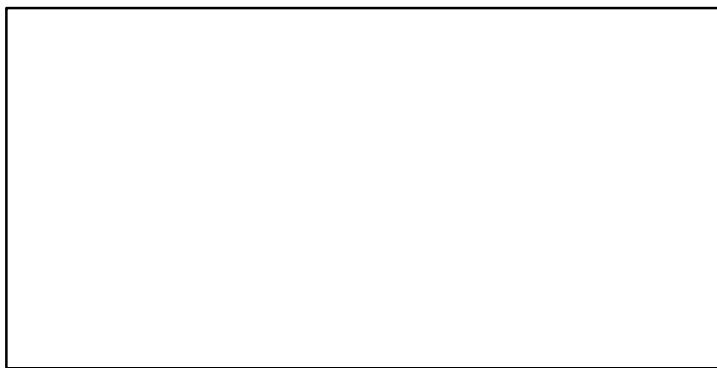
TC-MT, TL*, RecC* (1978–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*

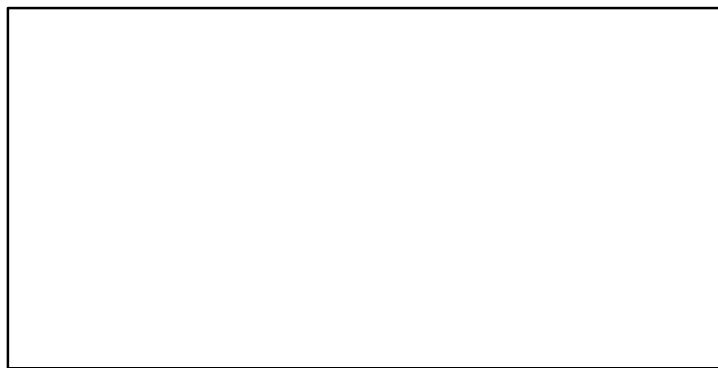


survB*

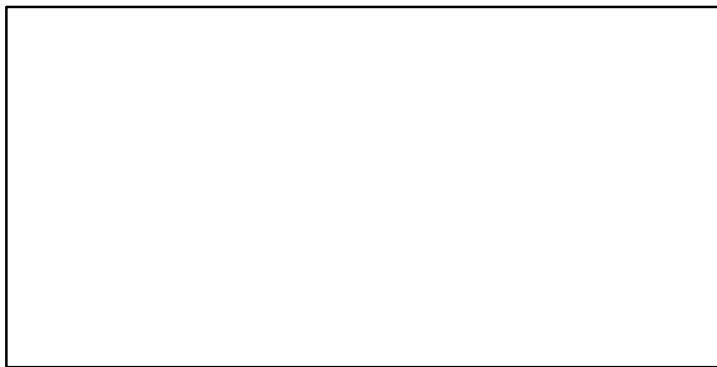
MSY*, MORAT*



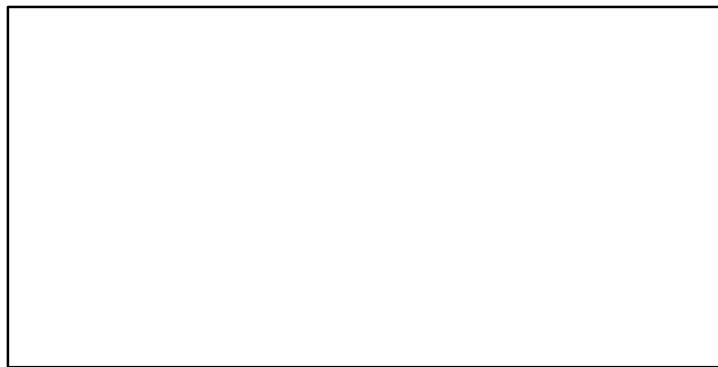
CPUE*



EFFORT*



CdivMSY*



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

Black scabbardfish Northeast Atlantic [BKSFNEATL]

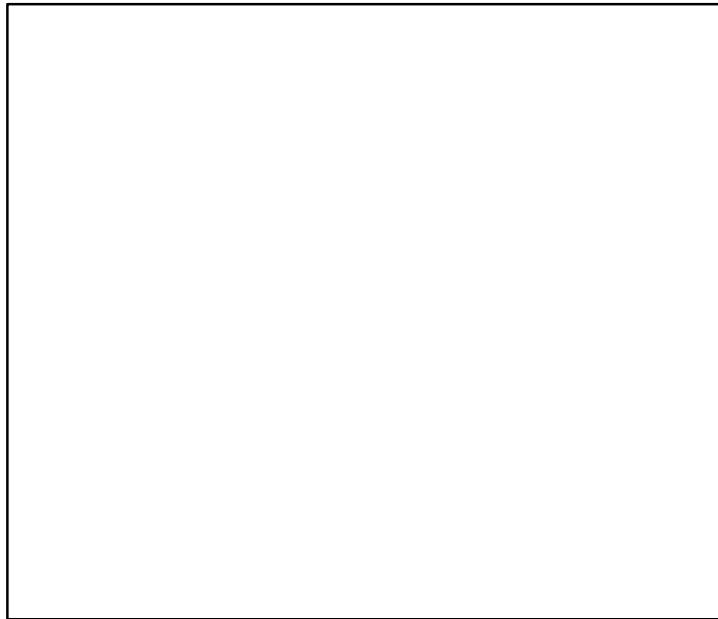
Metadata	
Scientific Name	Aphanopus carbo
Current Assess ID	WGDEEP-BKSFNEATL-1988-2019-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2017, 2019, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBm sy	-	-	-
SSBm sy	-	-	-
Fm sy	-	-	-
ERm sy	-	-	-
TBm gt	-	-	-
SSBm gt	-	-	-
Fm gt	-	-	-
ERm gt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

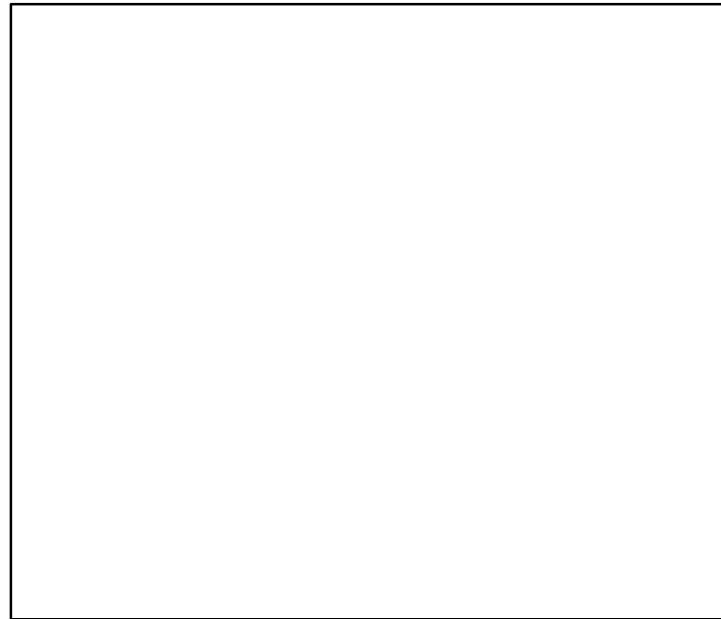
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2013	0.022	-	-	
ER	ER-ratio	2019	0.061	-	-	
TC	TC-MT	2019	4320			
TL	-	-	-			
TB/TBm sy	-	-	-			
SSB/SSBm sy	-	-	-			
F/Fm sy	-	-	-			
ER/ERm sy	-	-	-			
TB/TBm gt	-	-	-			
SSB/SSBm gt	-	-	-			
F/Fm gt	-	-	-			
ER/ERm gt	-	-	-			

Black scabbardfish Northeast Atlantic [BKSFNEATL]

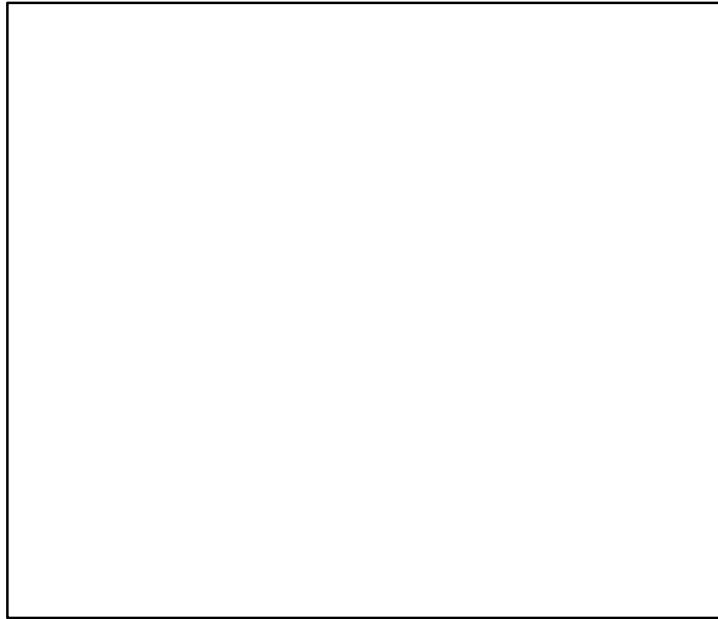
Kobe MSY*



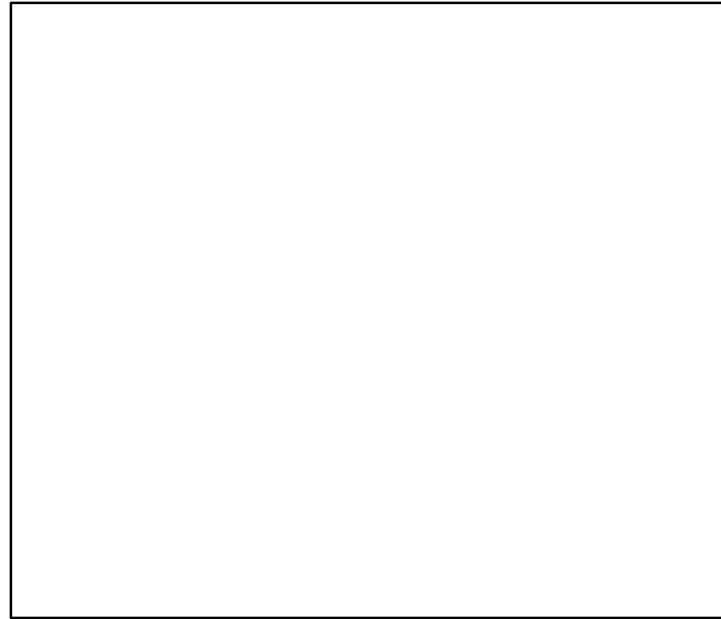
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Black scabbardfish Northeast Atlantic [BKSFNEATL]

TB*



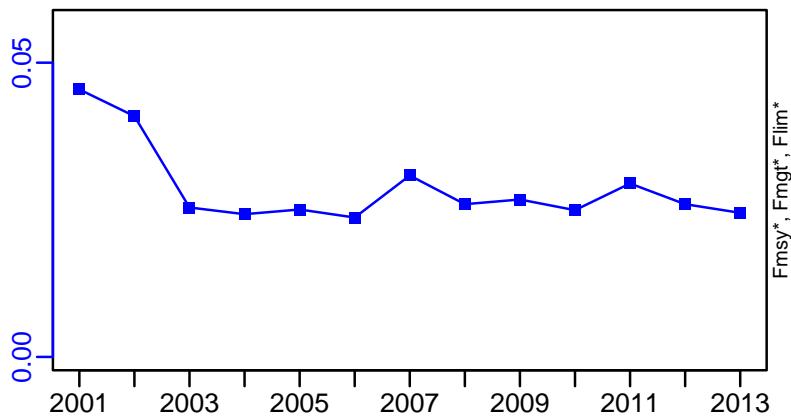
SSB*



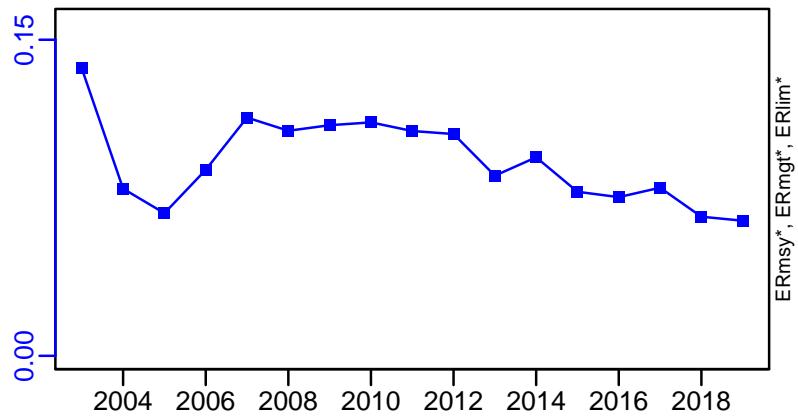
TN *



F-1/yr (2001–2013–ICESIMP2018)



ER-ratio (1988–2019–ICESIMP2021–2)



Recruits*

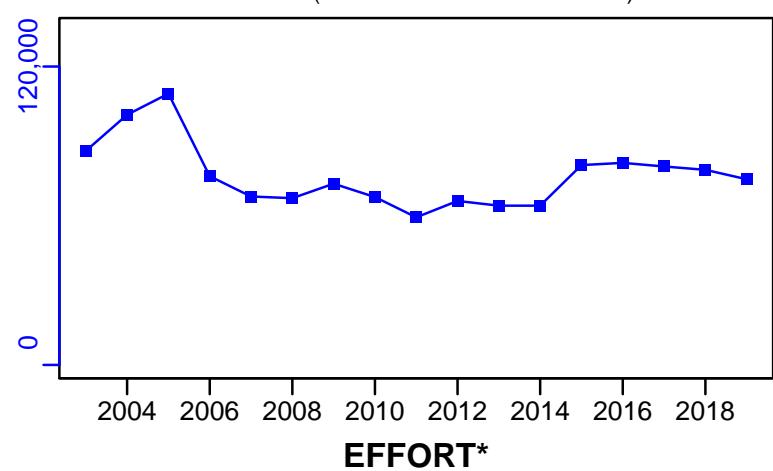
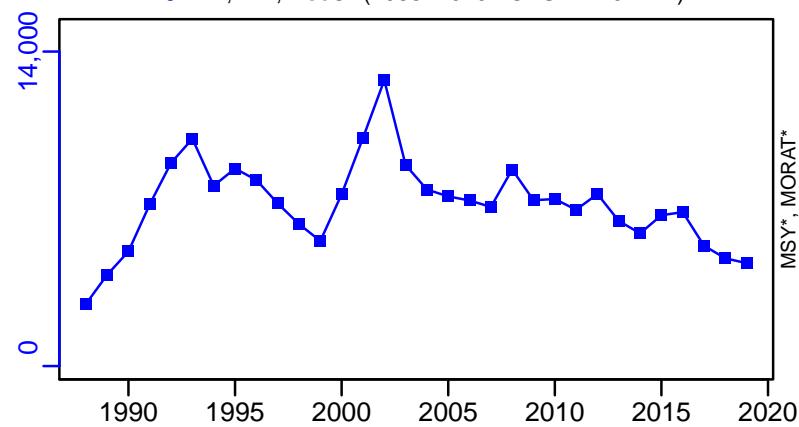


- Listed time series
- Target BRP
- MSY-based BRP
- Lim BRP
- Rec-Est
- * No Data

Black scabbardfish Northeast Atlantic [BKSFNEATL]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

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*

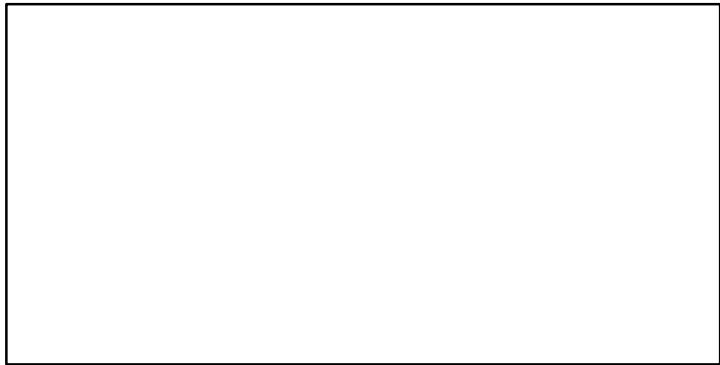
Spawner Recruit*

Production*

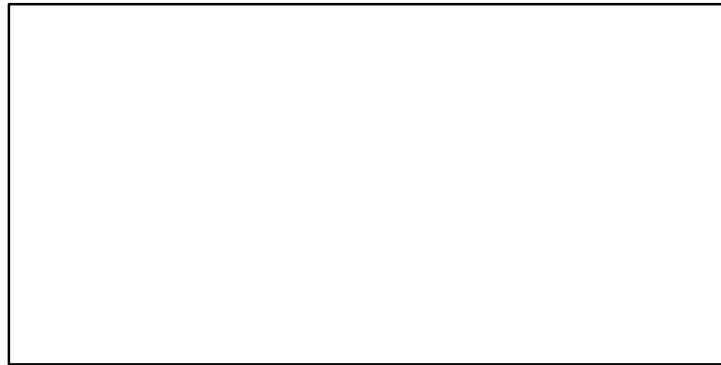
◆ Start Year ♦ End Year * No Data

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

TB*



SSB*



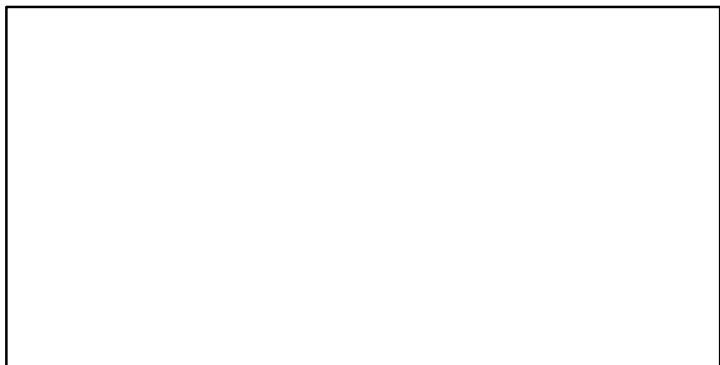
TN *



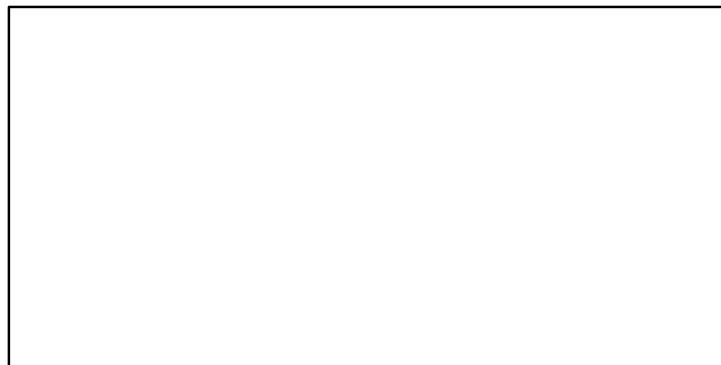
F*



ER*



Recruits*

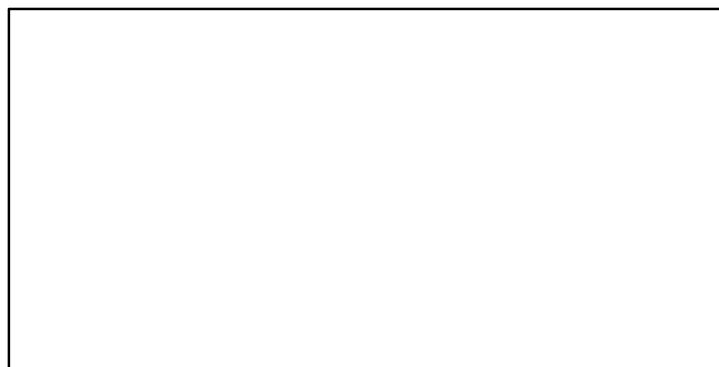
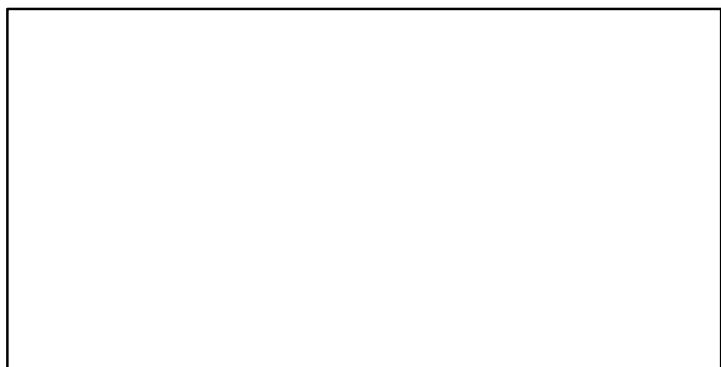
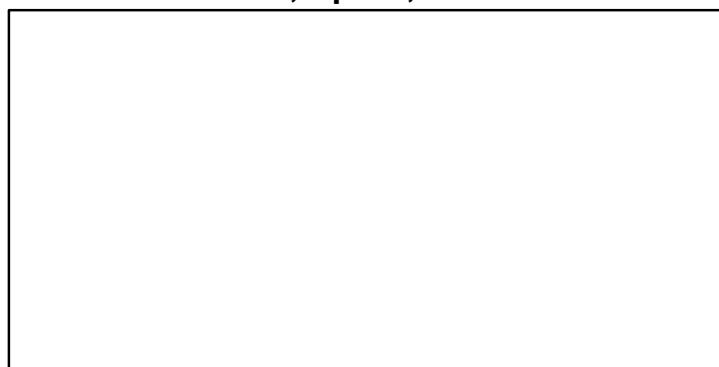
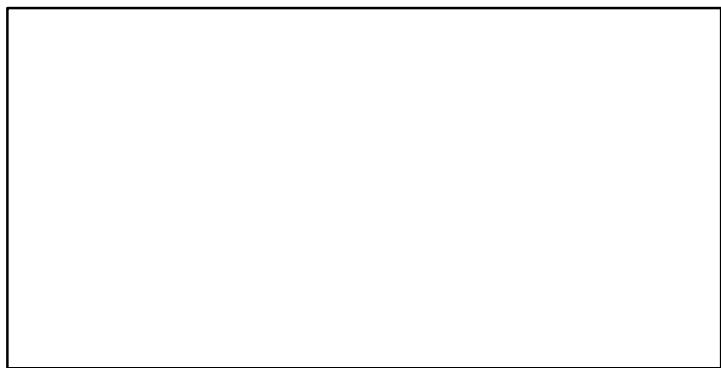
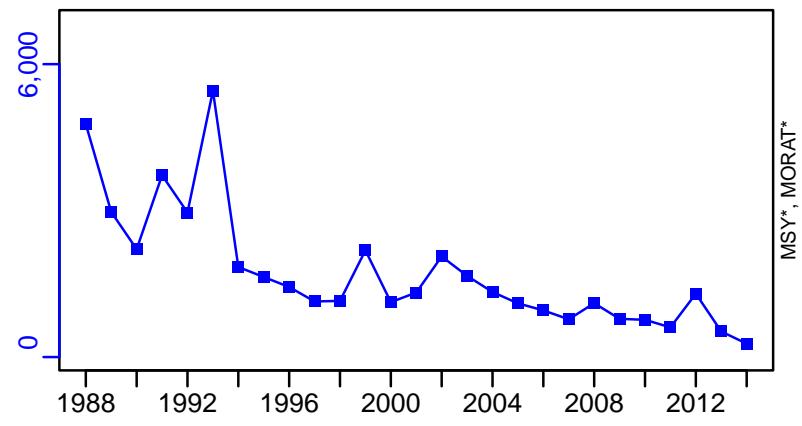


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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*



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

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

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

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

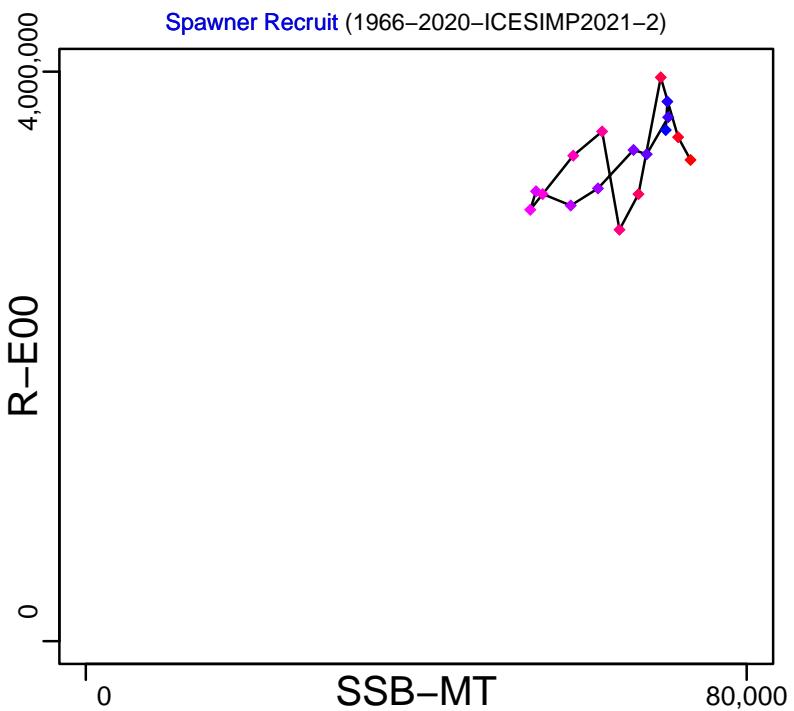
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2020	99,300	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	3,380,000	-	9	
F	F-1/yr	2020	0.036	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2018	2670			
TL	TL-MT	2020	3220			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.301			
ER/ERmsy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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit (1966–2020–ICESIMP2021–2)

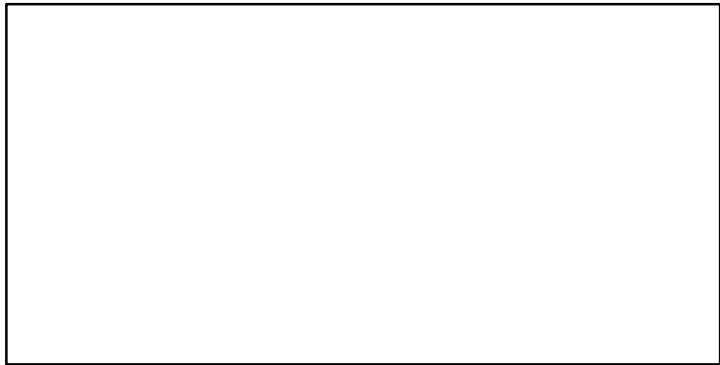


Production*

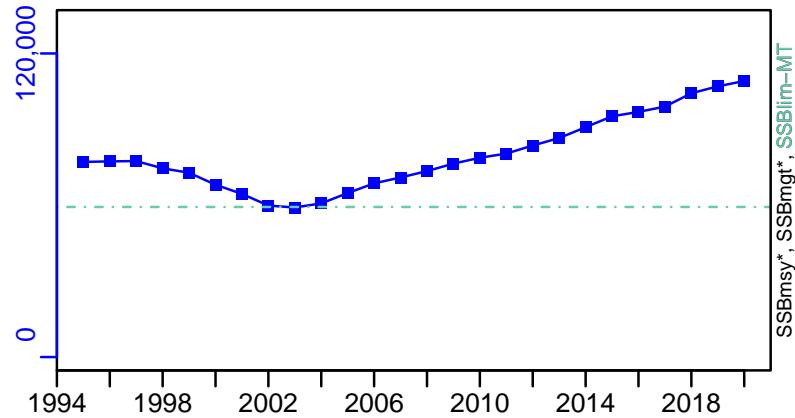
◆ Start Year ◆ End Year * No Data

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

TB*



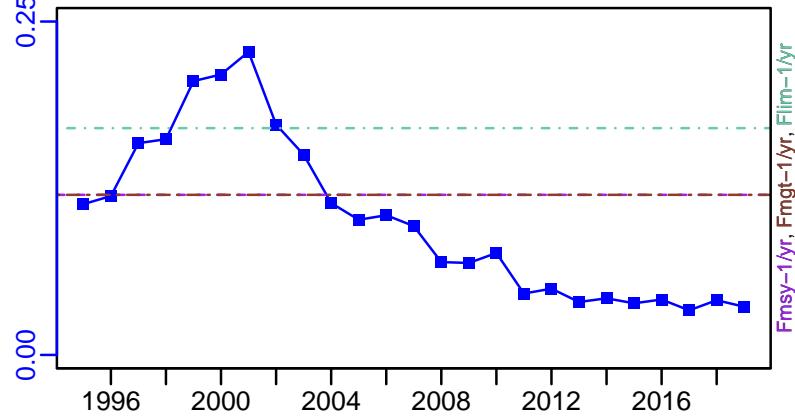
SSB-MT (1966–2020–ICESIMP2021–2)



TN *



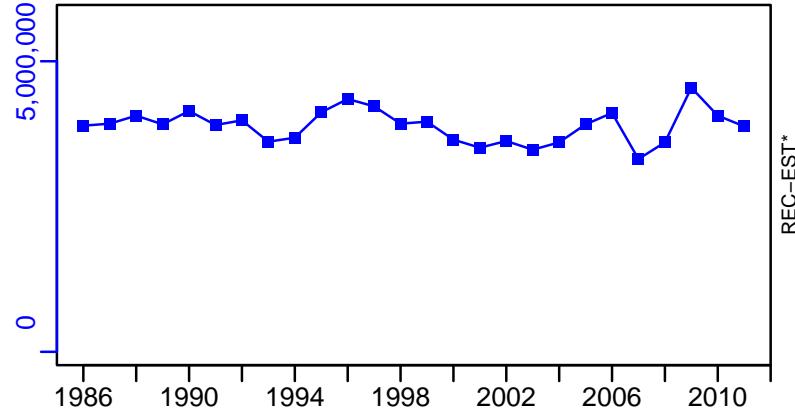
F-1/yr (1966–2020–ICESIMP2021–2)



ER*



R-E00 (1966–2020–ICESIMP2021–2)

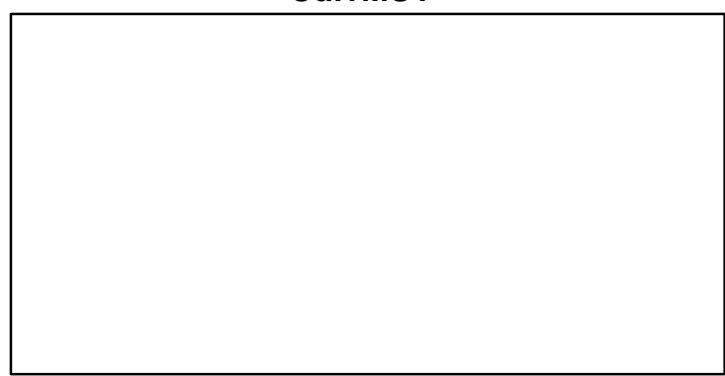
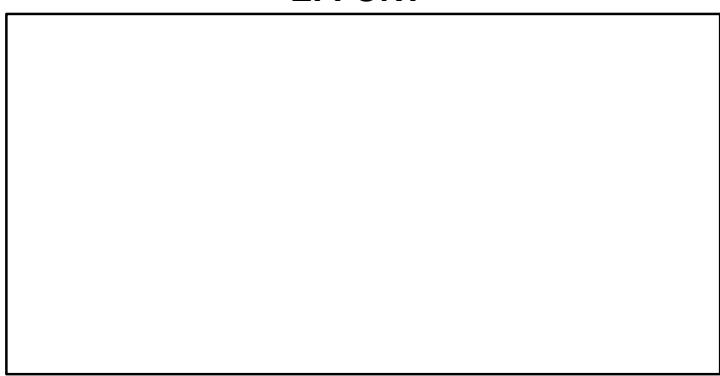
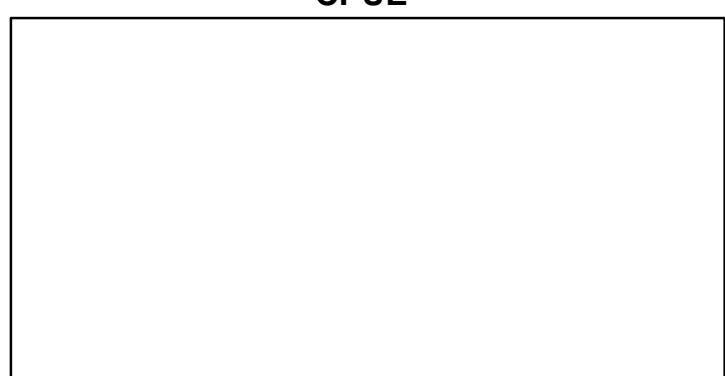
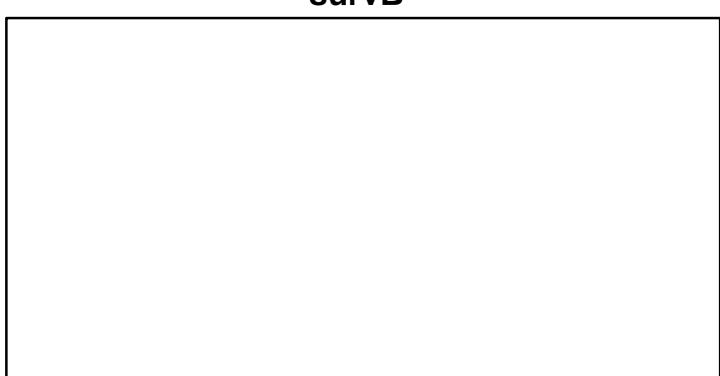
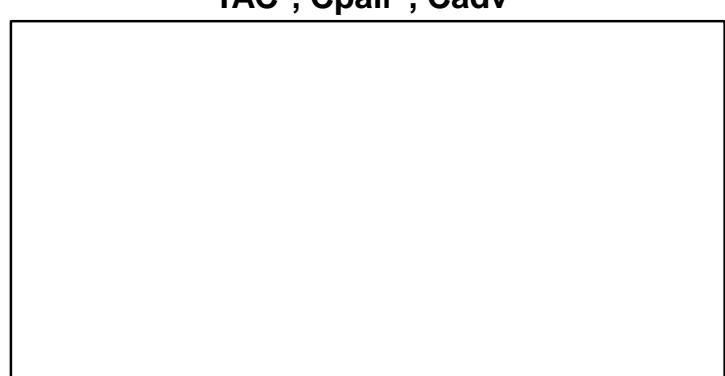
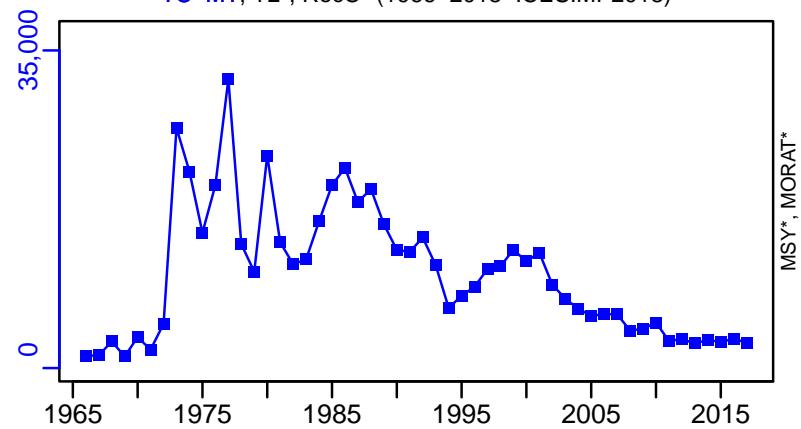


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



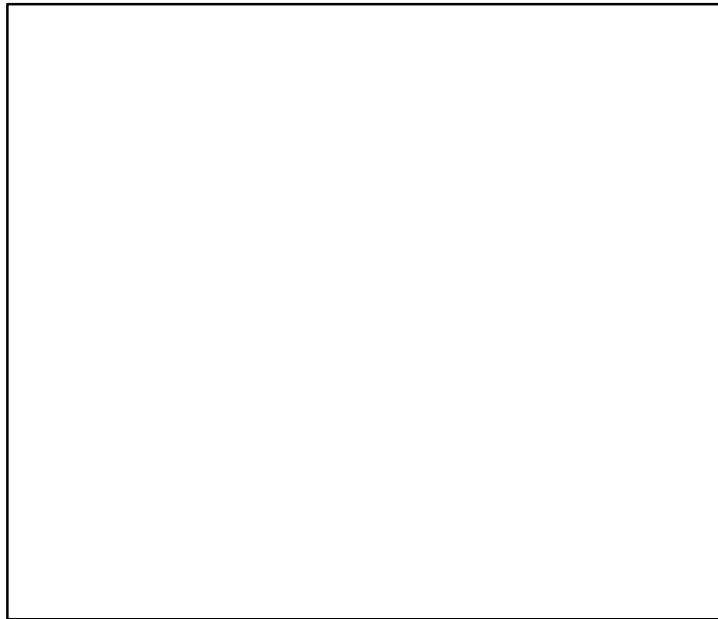
Blonde ray ICES 4a-6 [BLRAYIVa-VI]

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

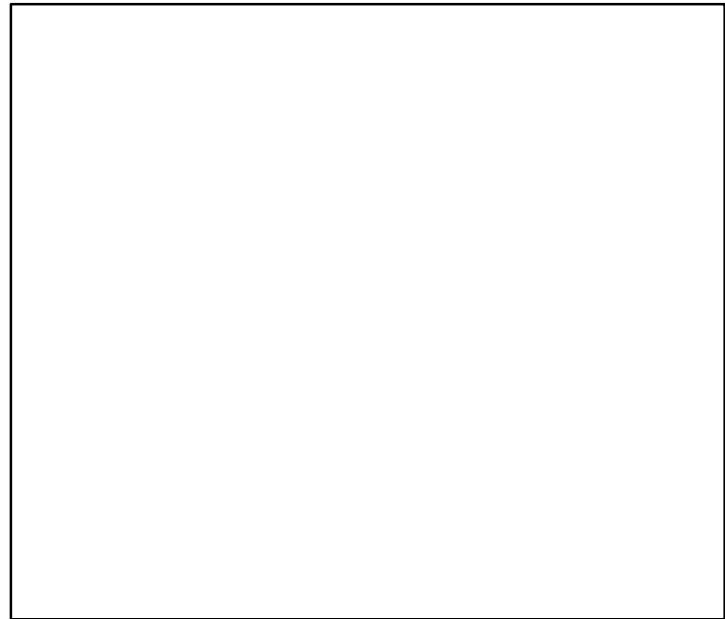
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

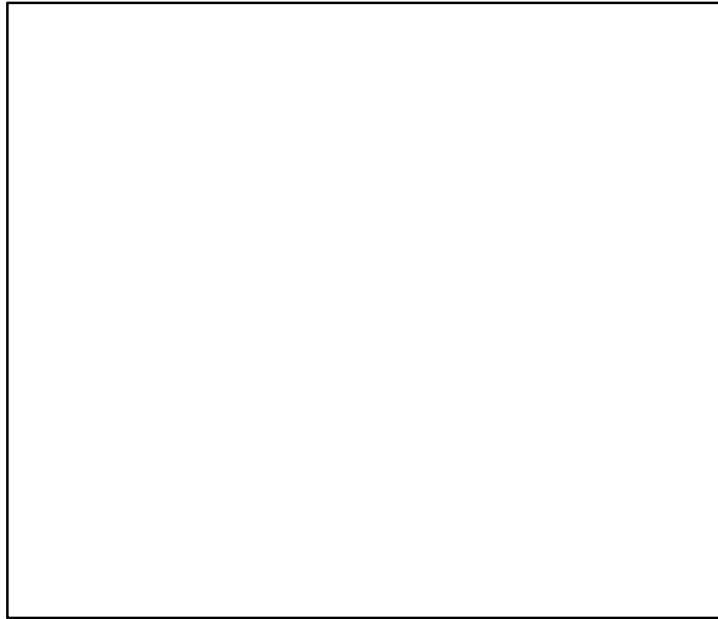
Kobe MSY*



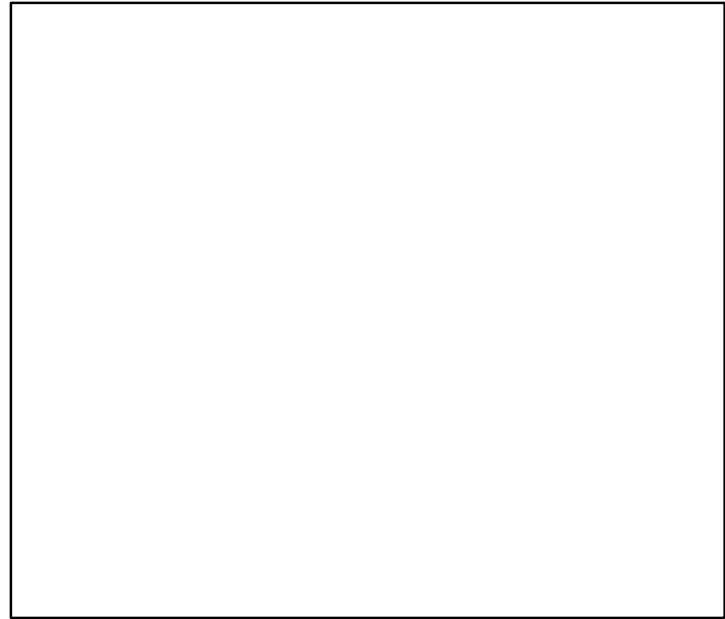
Kobe MGT*



Spawner Recruit*



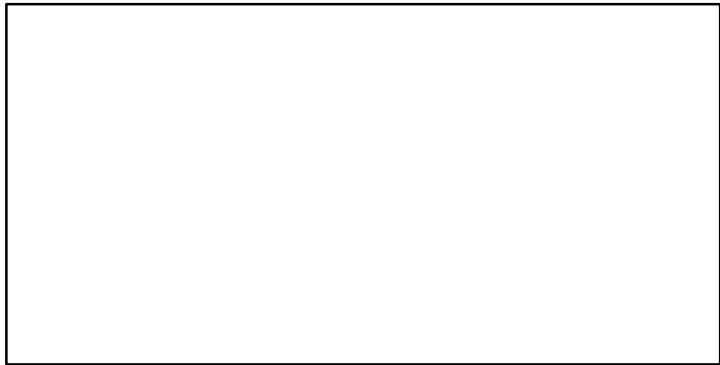
Production*



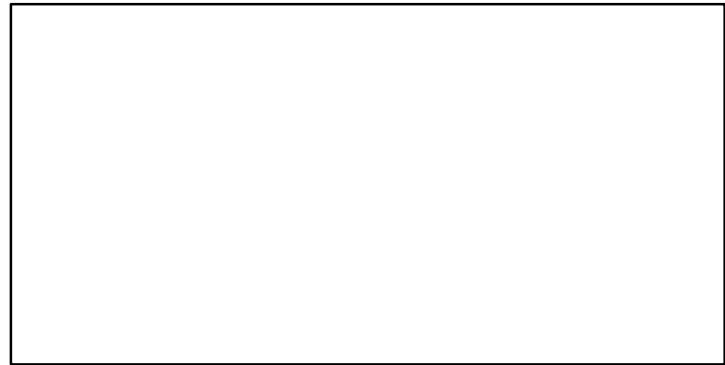
◆ Start Year ♦ End Year * No Data

Blonde ray ICES 4a–6 [BLRAYIVa–VI]

TB*



SSB*



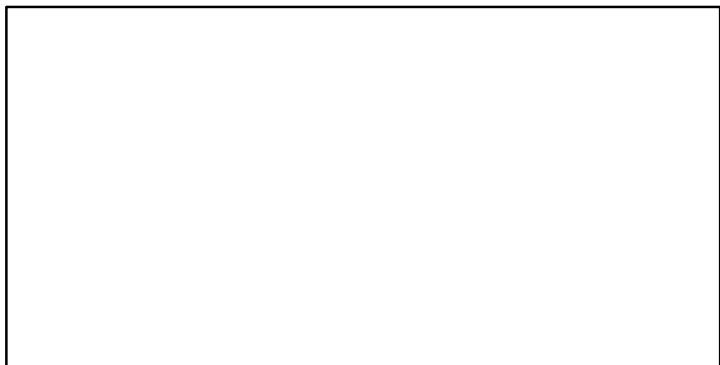
TN *



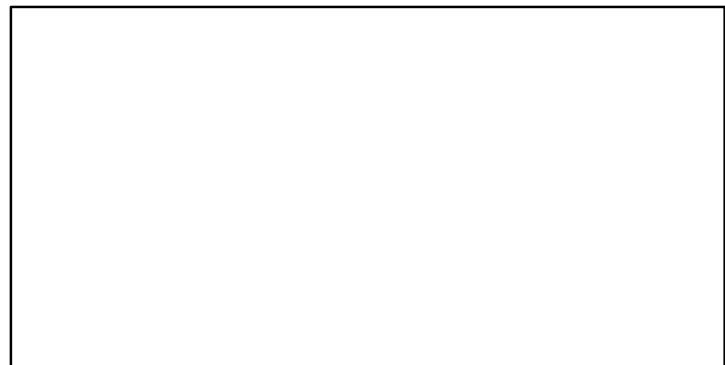
F*



ER*



Recruits*

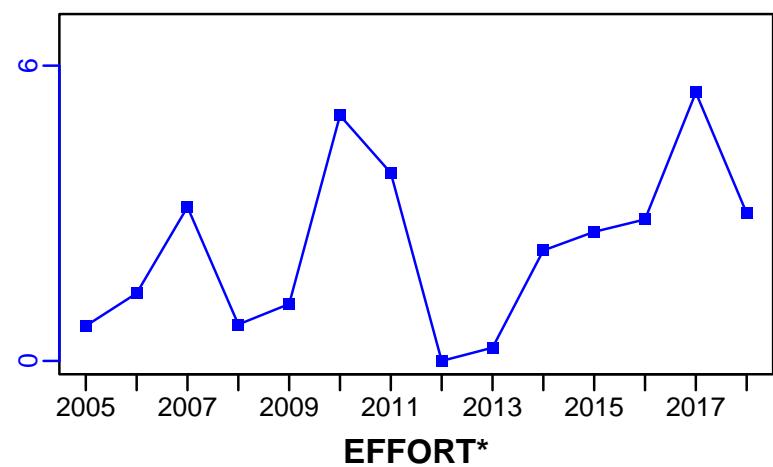
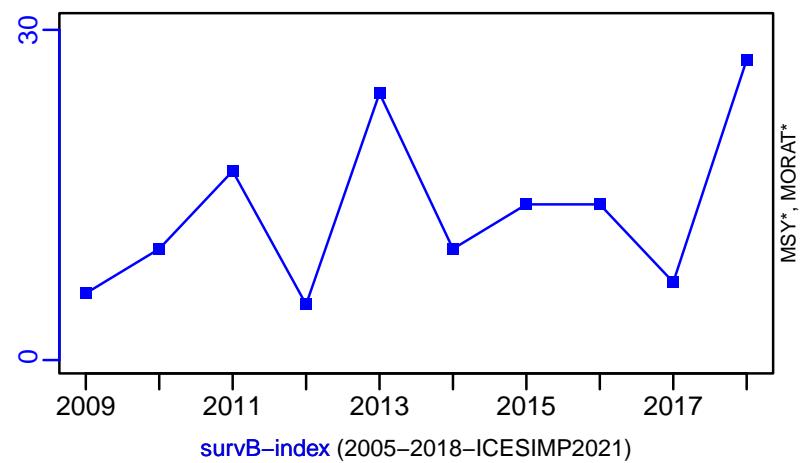


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Blonde ray ICES 4a–6 [BLRAYIVa–VI]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

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

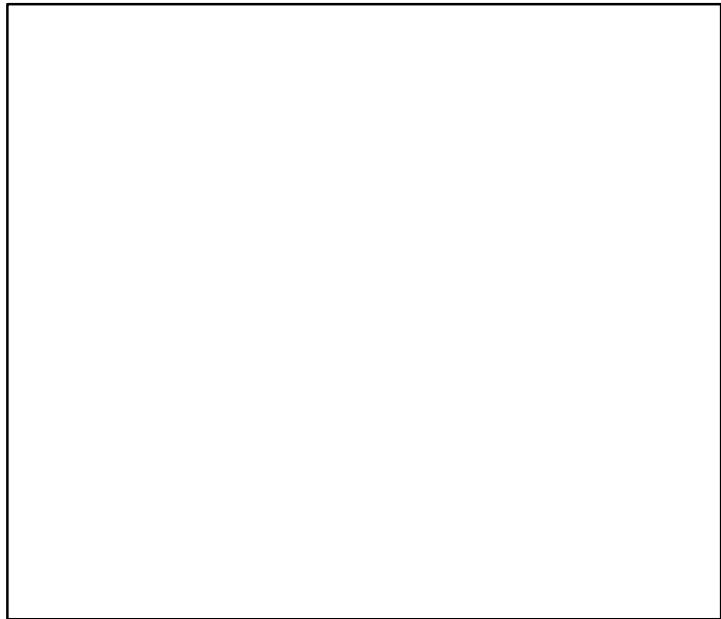
Blonde ray ICES 4c-7d [BLRAYIVc-VIId]

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

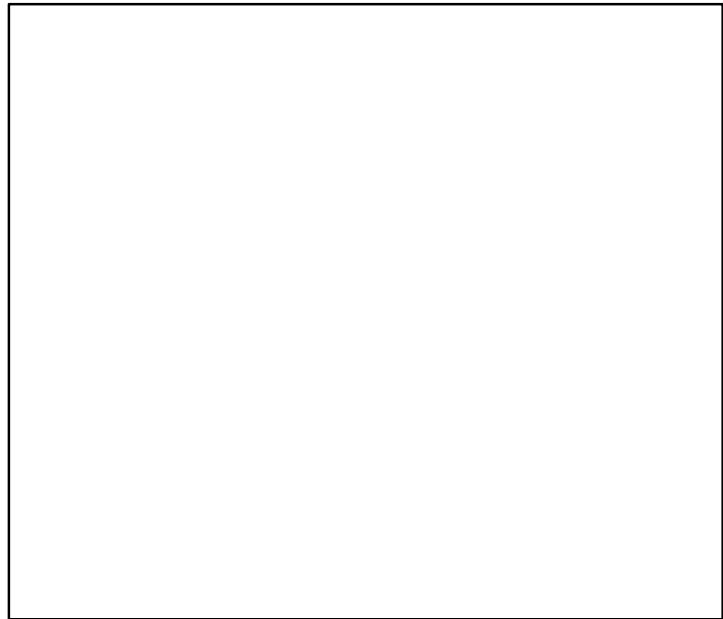
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

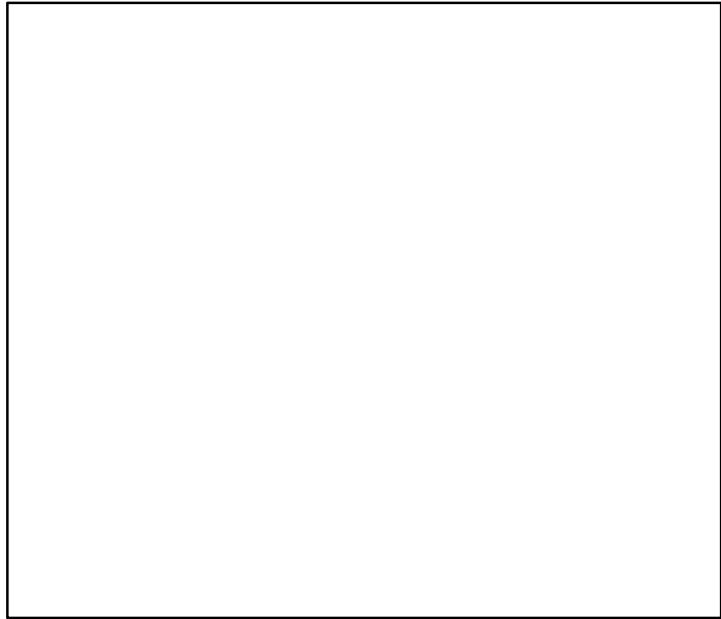
Kobe MSY*



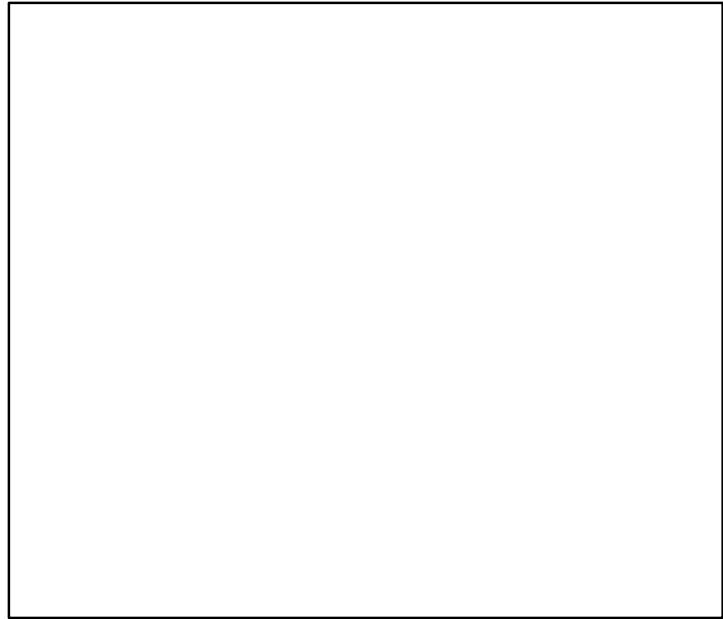
Kobe MGT*



Spawner Recruit*



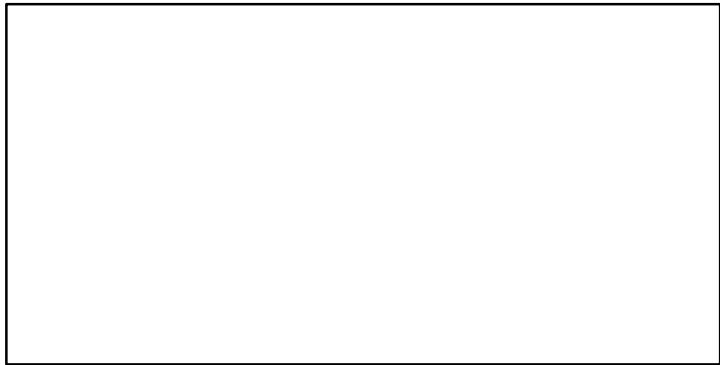
Production*



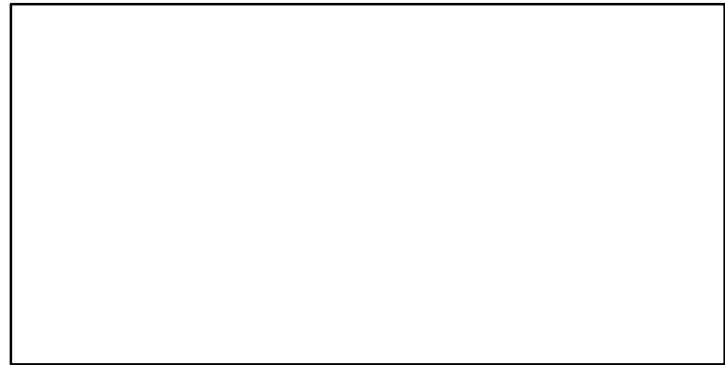
◆ Start Year ♦ End Year * No Data

Blonde ray ICES 4c–7d [BLRAYIVc–VIIId]

TB*



SSB*



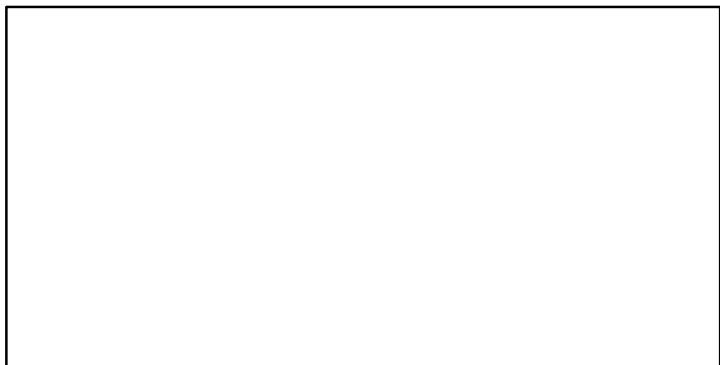
TN *



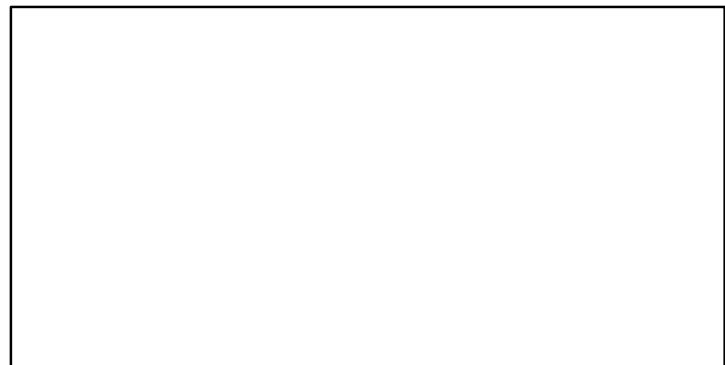
F*



ER*



Recruits*

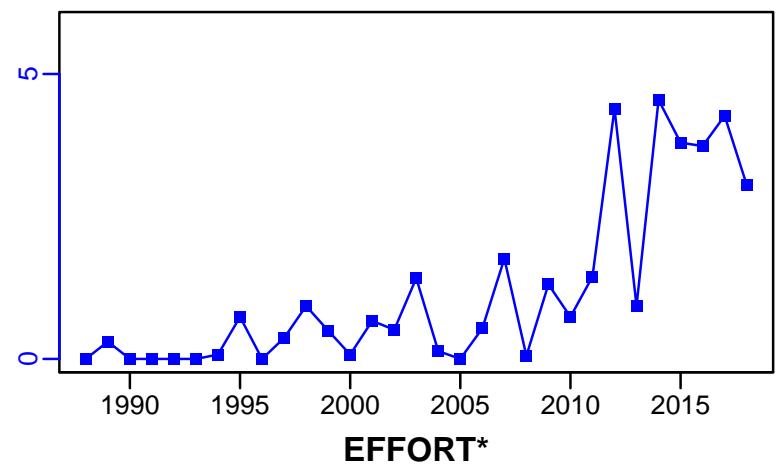
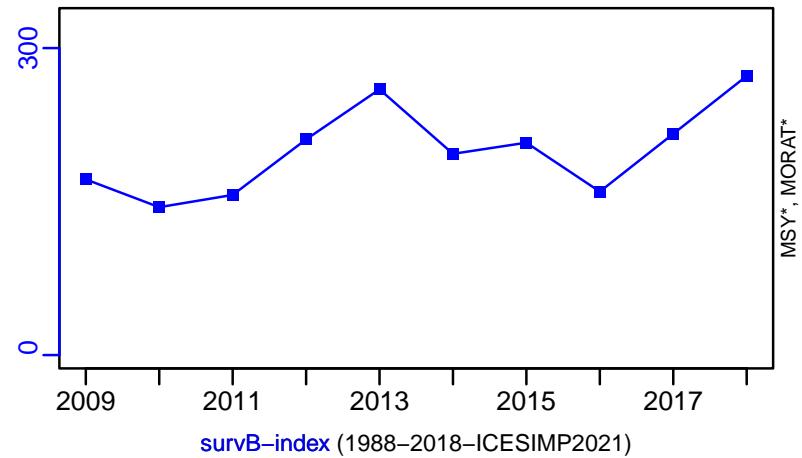


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Blonde ray ICES 4c–7d [BLRAYIVc–VIIId]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

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

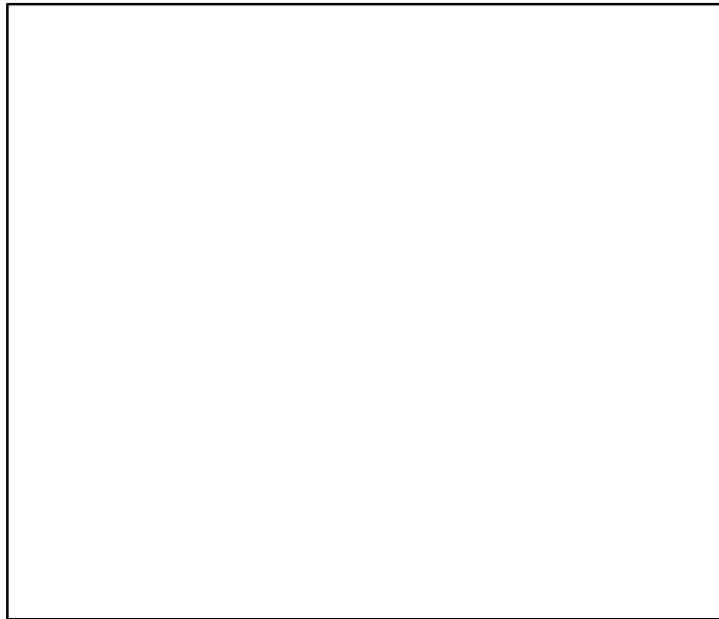
Blonde ray Portugese Waters -East [BLRAYIXa]

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

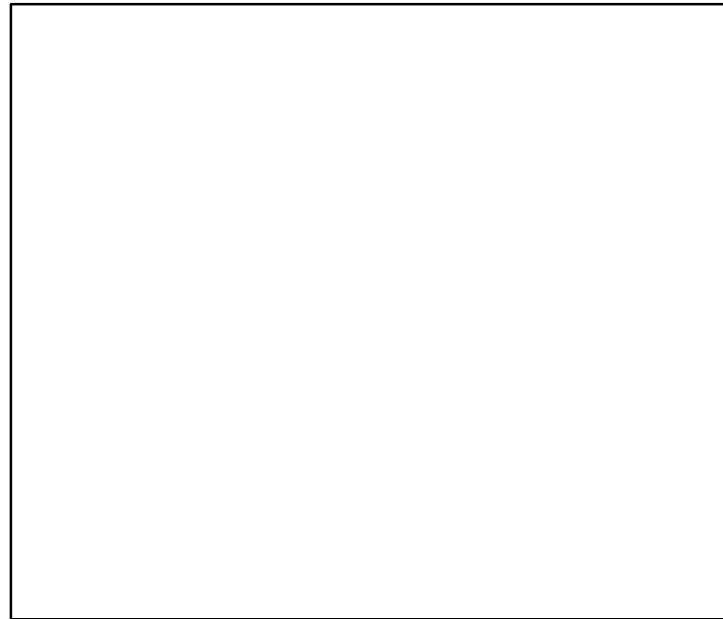
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

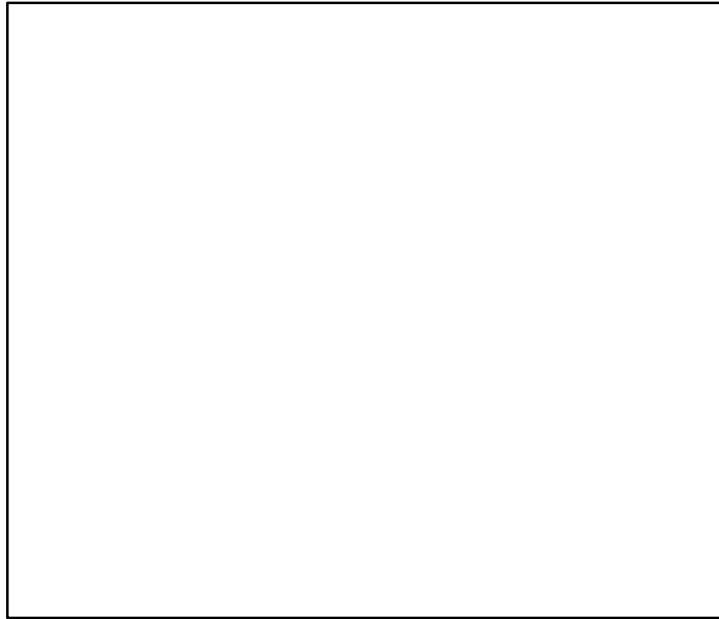
Kobe MSY*



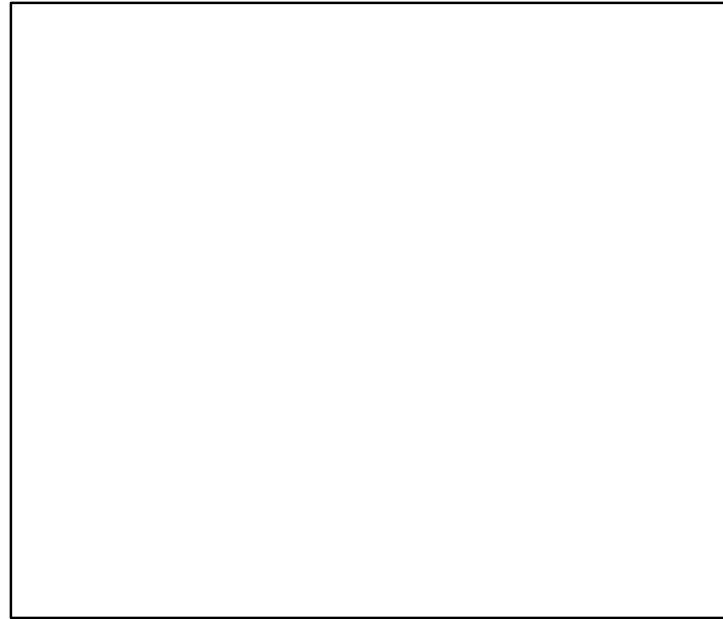
Kobe MGT*



Spawner Recruit*



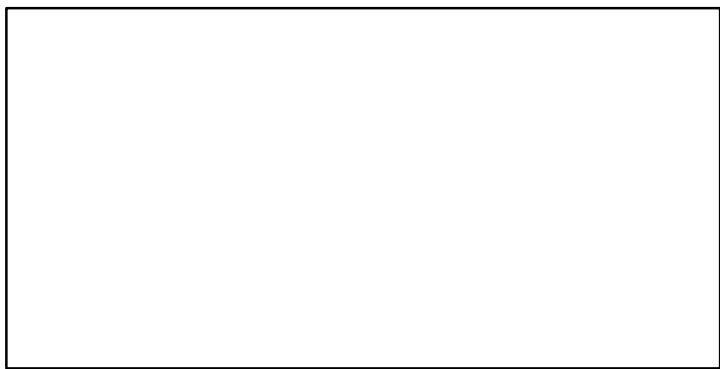
Production*



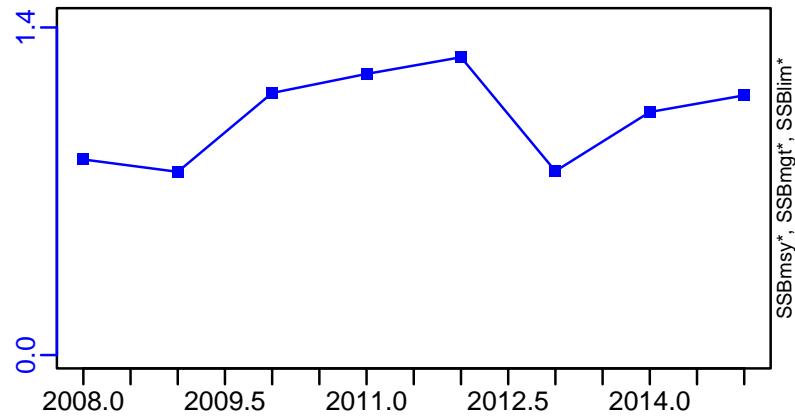
◆ Start Year ♦ End Year * No Data

Blonde ray Portuguese Waters –East [BLRAYIXa]

TB*



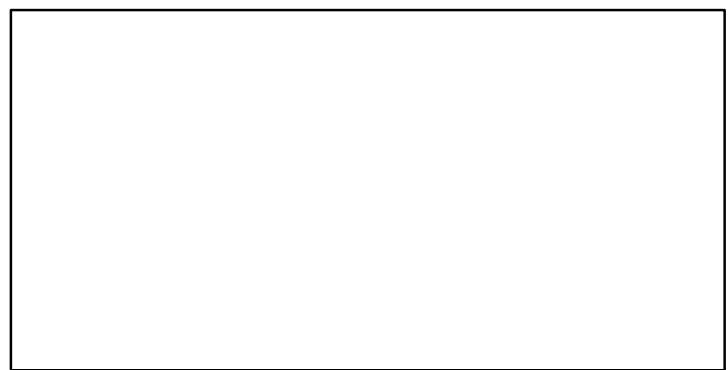
SSB–index (2005–2015–ICESIMP2018)



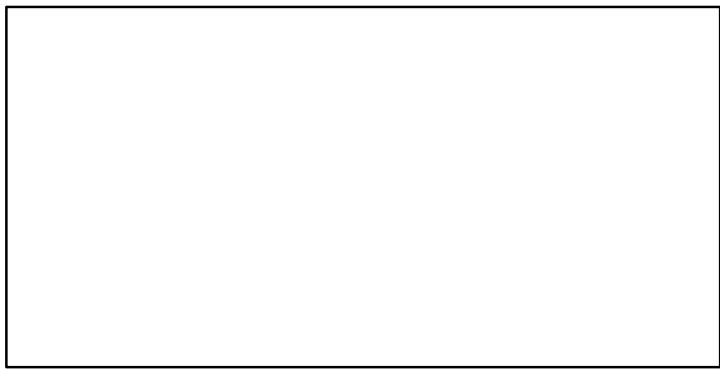
TN *



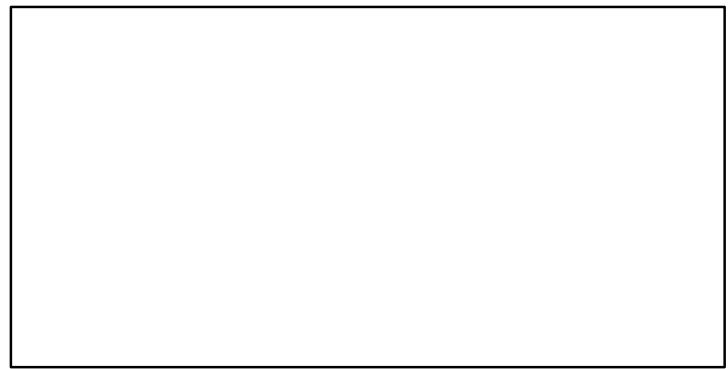
F*



ER*



Recruits*

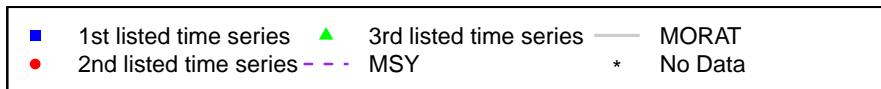
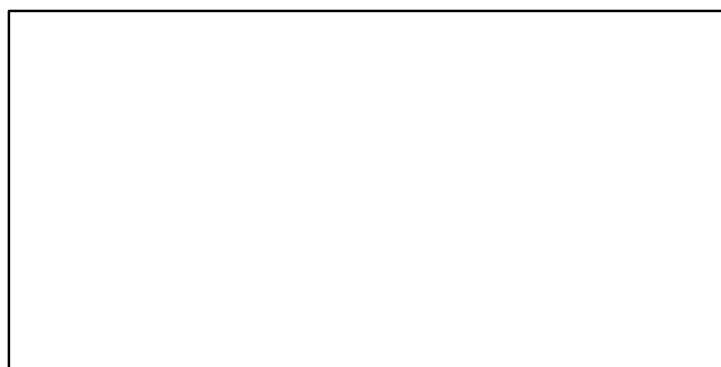
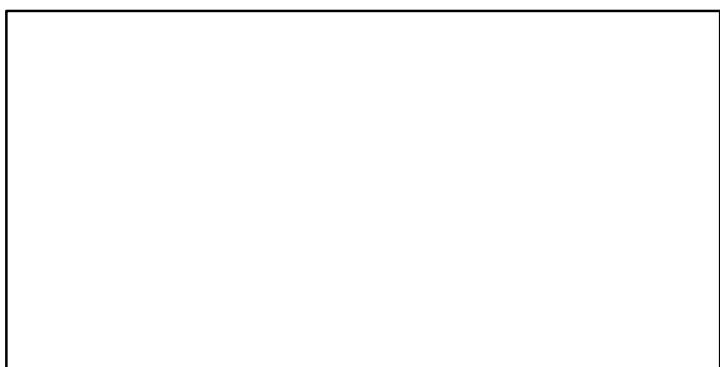
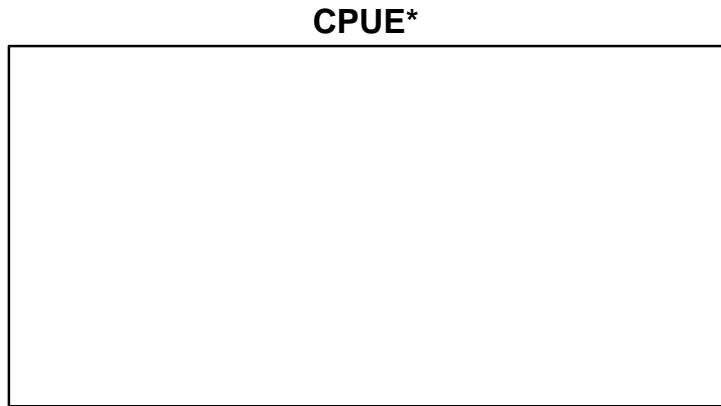
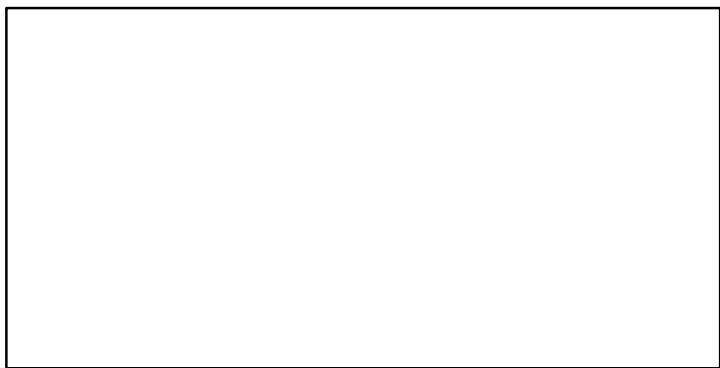
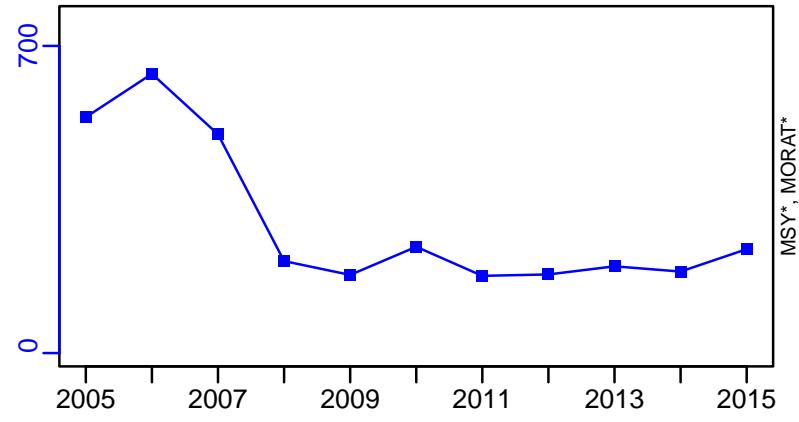


- | | | |
|---|--|---|
| ■ Listed time series
— MSY-based BRP | — Target BRP
— Lim BRP | — Rec-Est
* No Data |
|---|--|---|

Blonde ray Portuguese Waters –East [BLRAYIXa]

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

TAC*, Cpair*, Cadv*



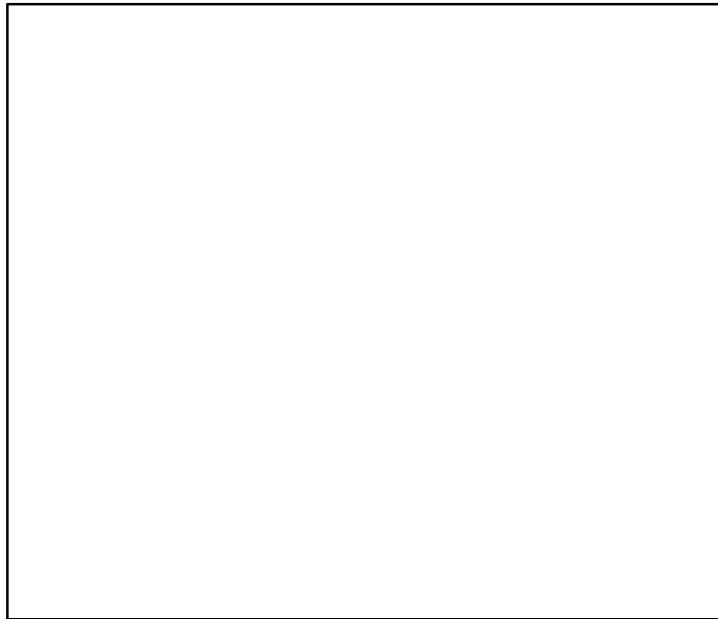
Blonde ray ICES 7afg [BLRAYVIIafg]

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

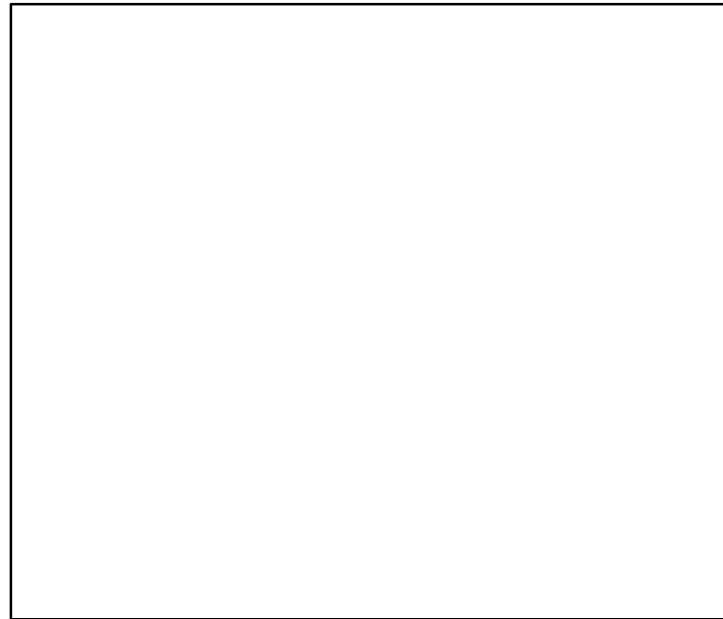
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

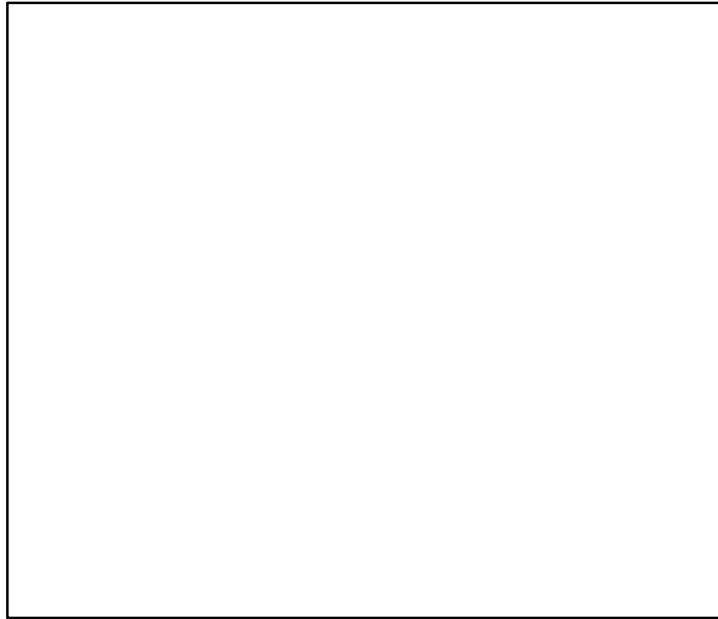
Kobe MSY*



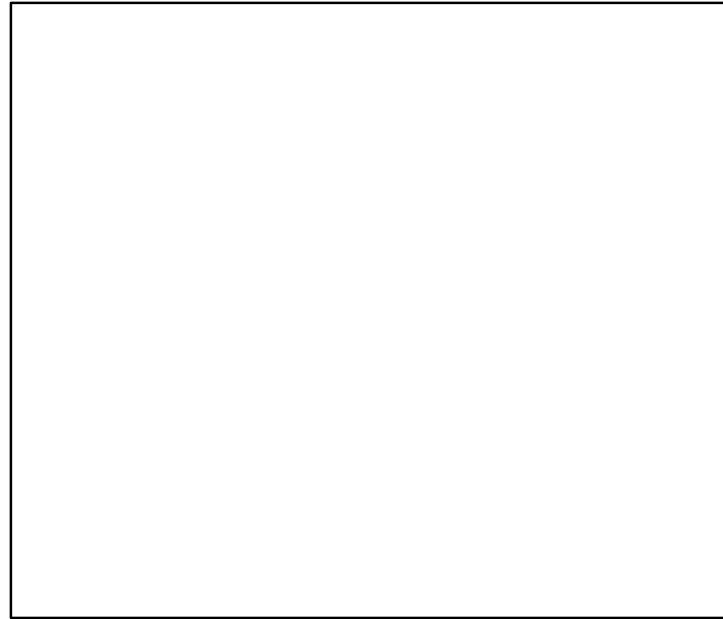
Kobe MGT*



Spawner Recruit*



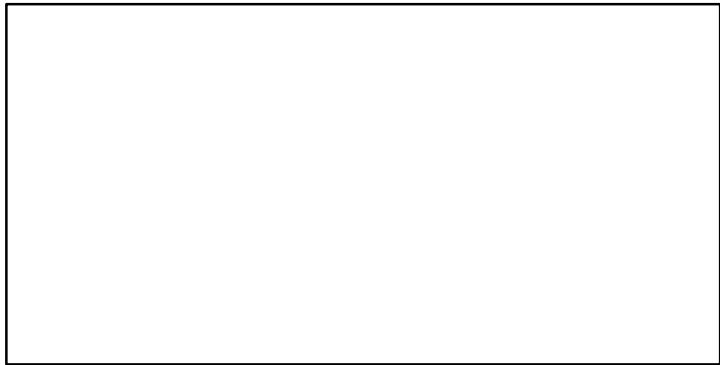
Production*



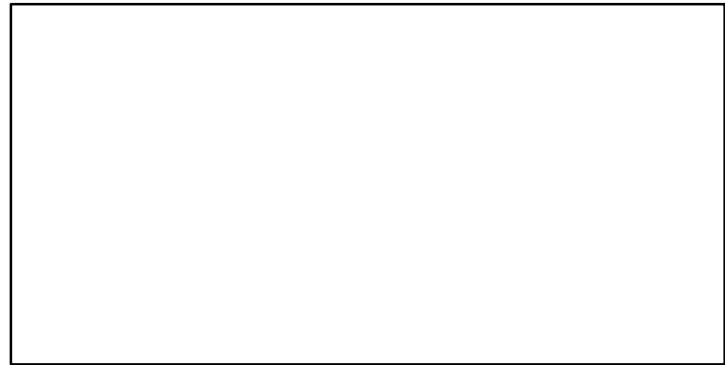
◆ Start Year ♦ End Year * No Data

Blonde ray ICES 7afg [BLRAYVIIafg]

TB*



SSB*



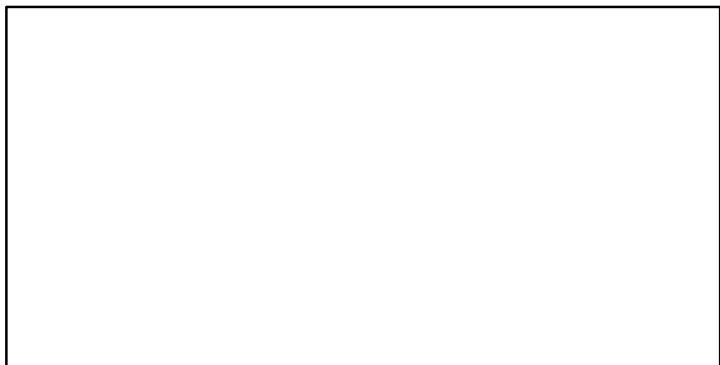
TN *



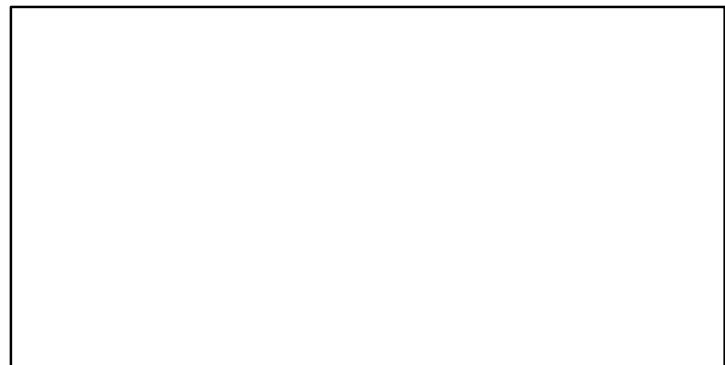
F*



ER*



Recruits*

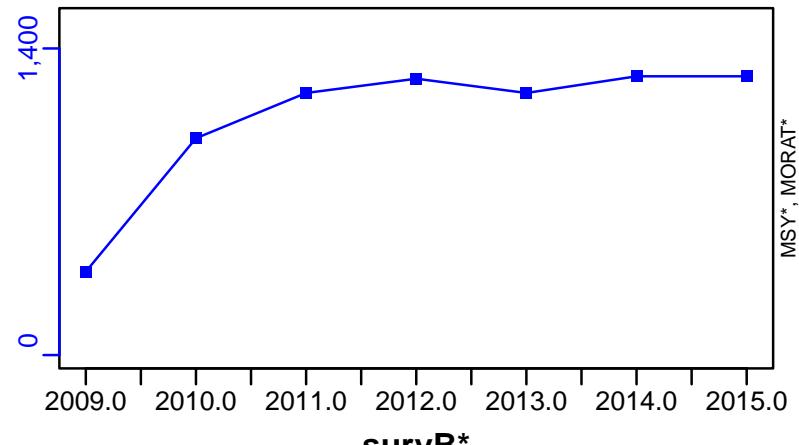


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Blonde ray ICES 7afg [BLRAYVIIafg]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

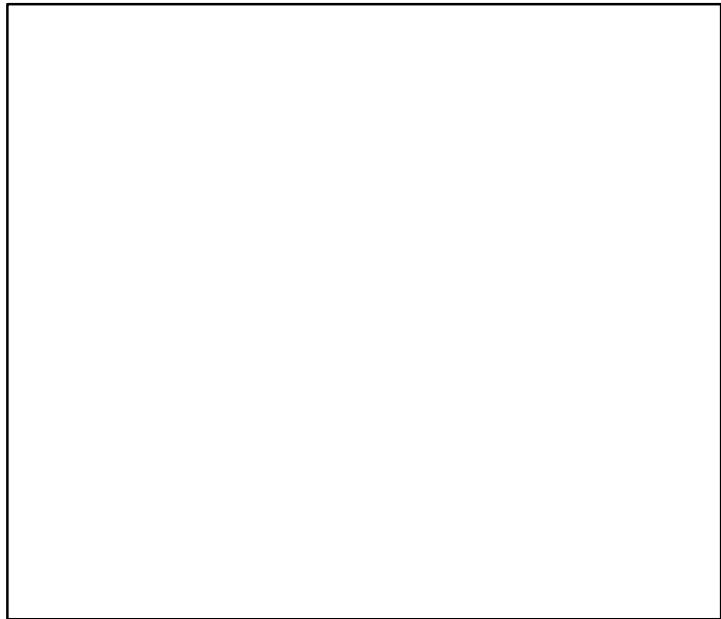
Blonde ray Western English Channel [BLRAYVIIe]

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

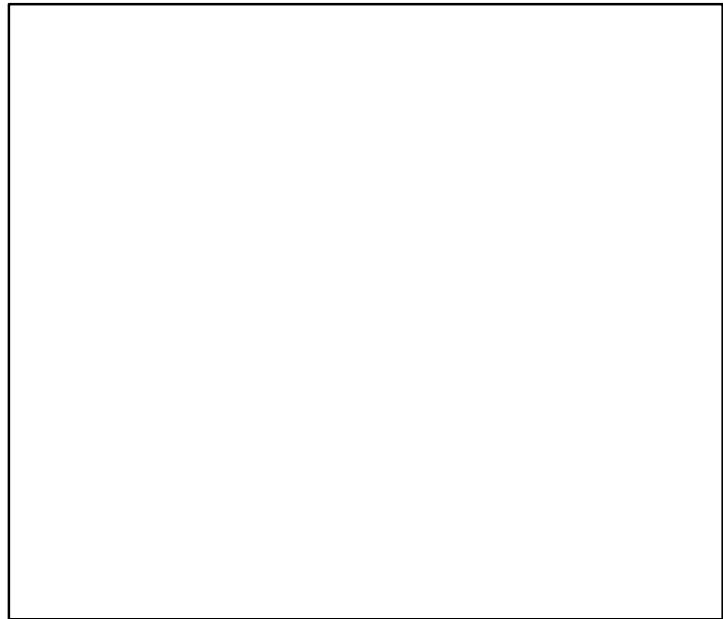
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

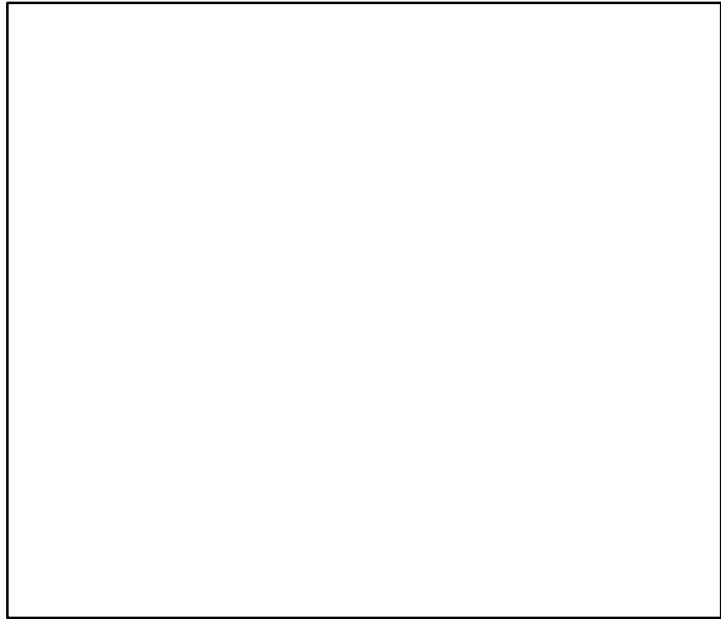
Kobe MSY*



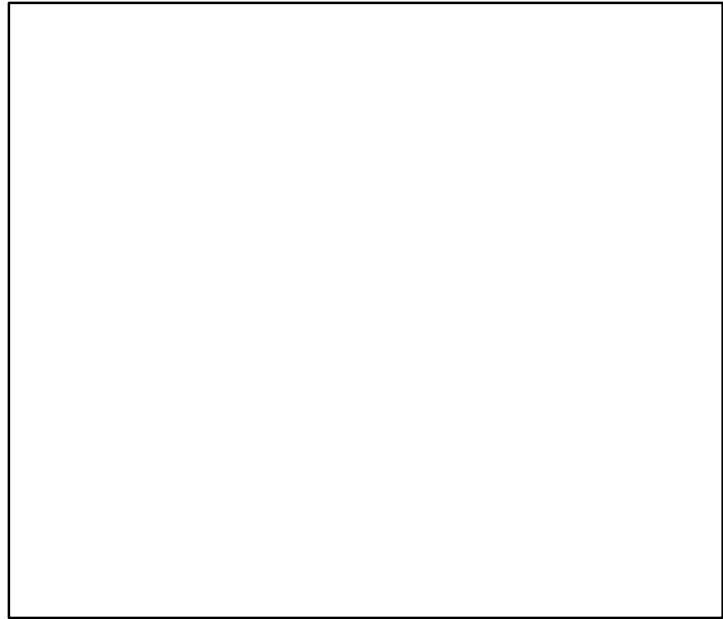
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

TB*



SSB*



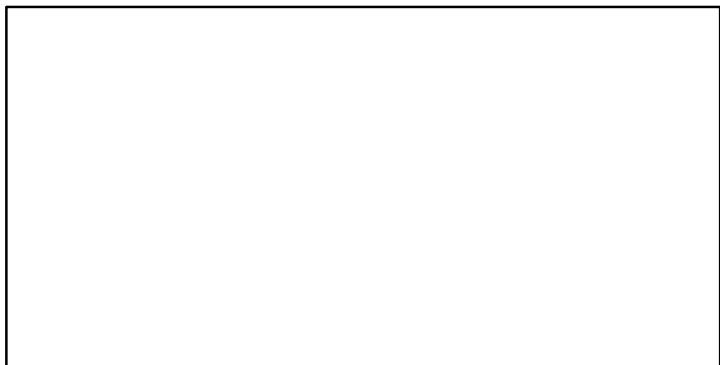
TN *



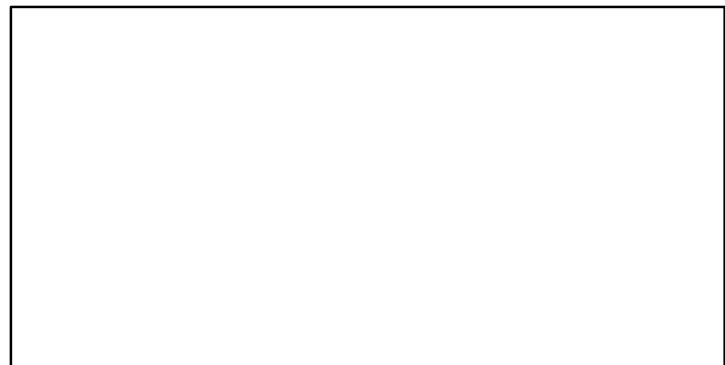
F*



ER*



Recruits*

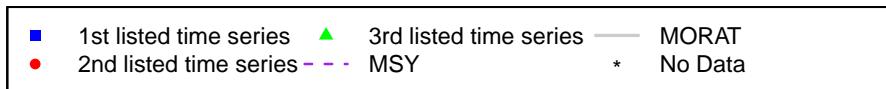
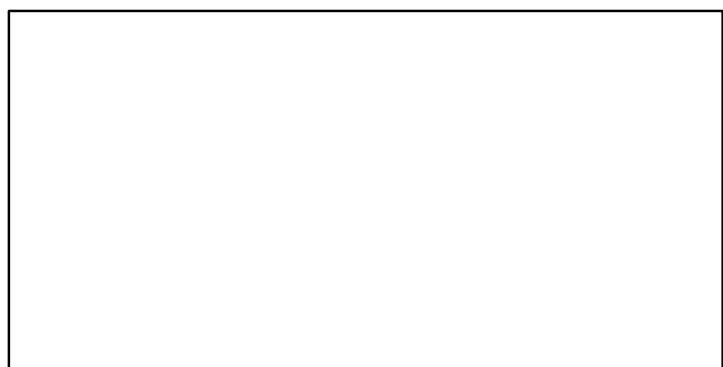
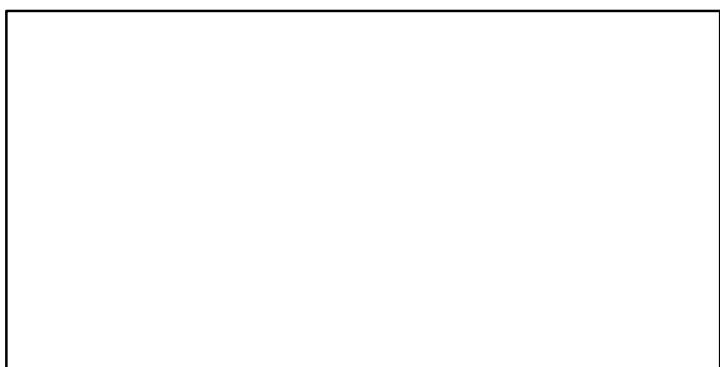
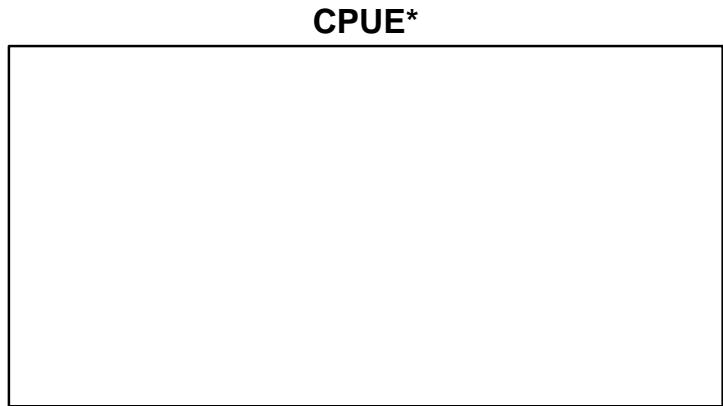
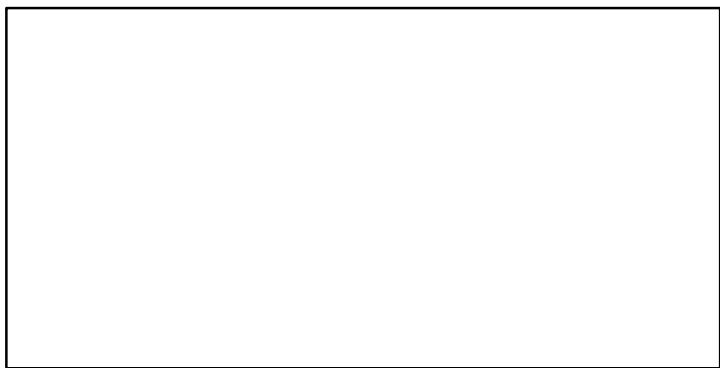
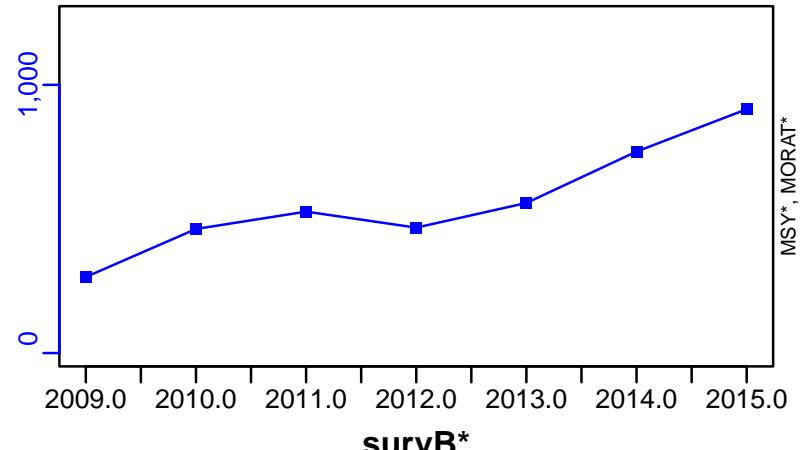


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Blonde ray Western English Channel [BLRAYVIIe]

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

TAC*, Cpair*, Cadv*



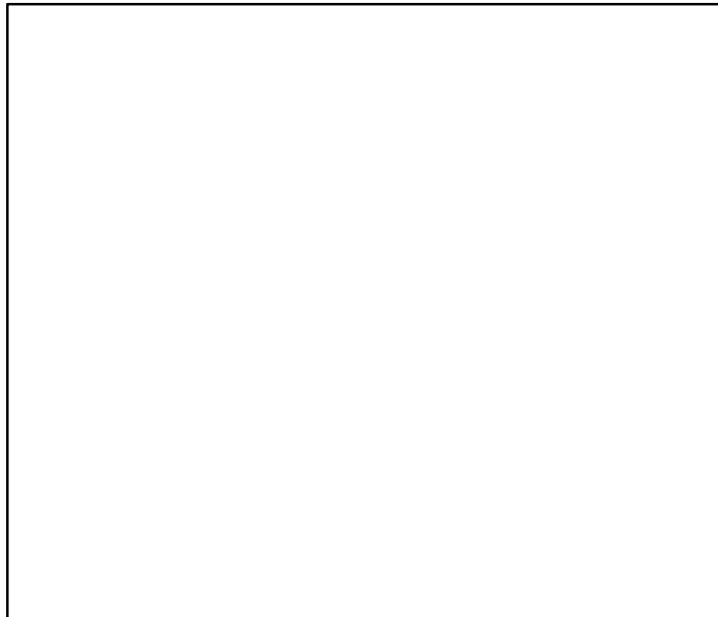
Blackmouth dogfish ICES 8-9a [BMDOGVIII-IXa]

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

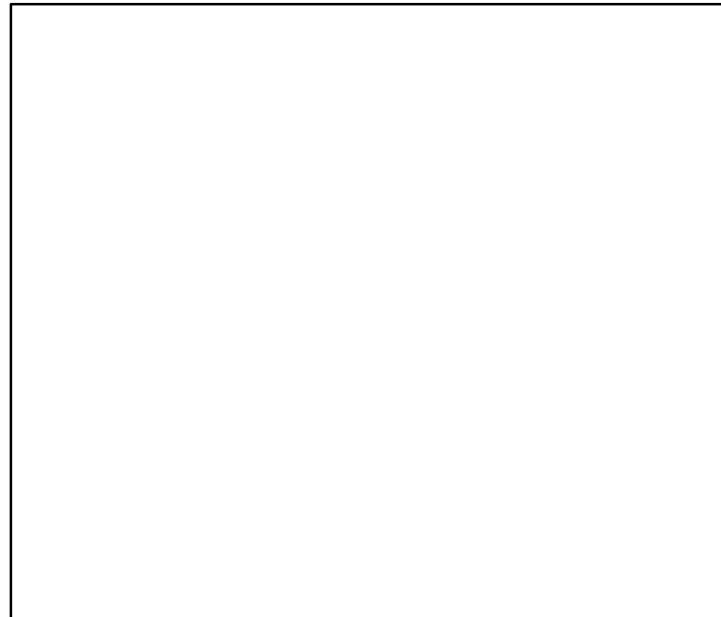
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



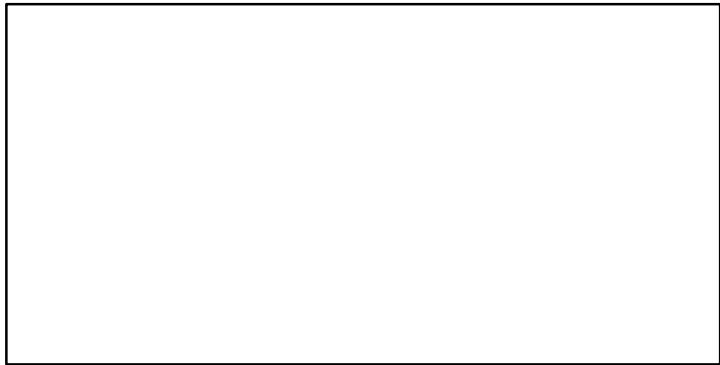
Production*



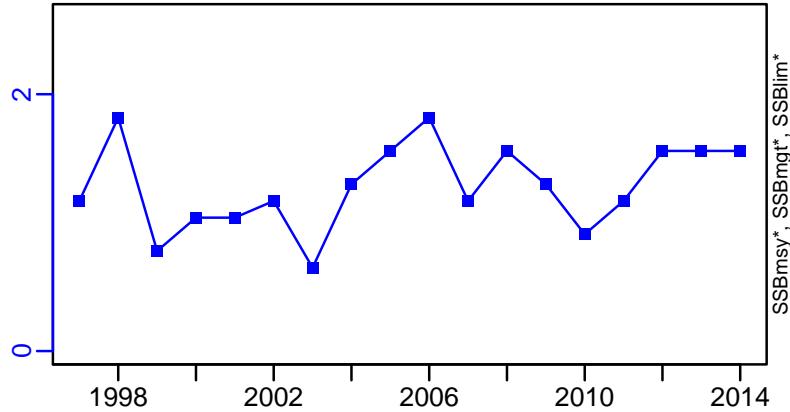
◆ Start Year ♦ End Year * No Data

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

TB*



SSB–index (1997–2014–ICESIMP2018)



SSB_ms*, SSB_{mgt}*, SSB_{lim}*

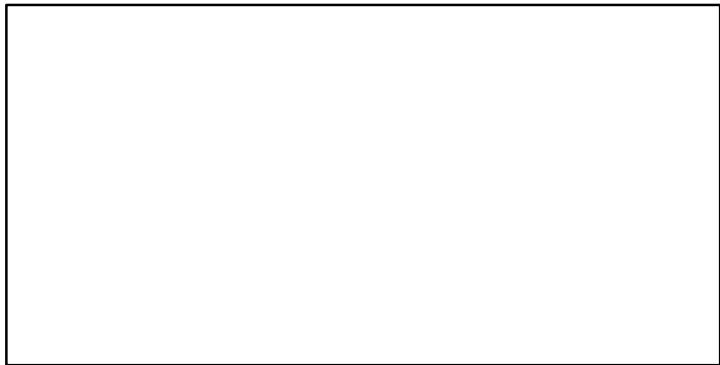
TN *



F*



ER*



Recruits*

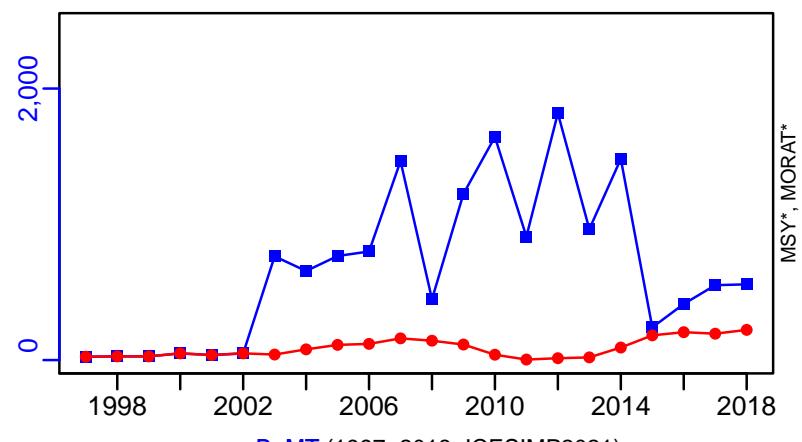


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

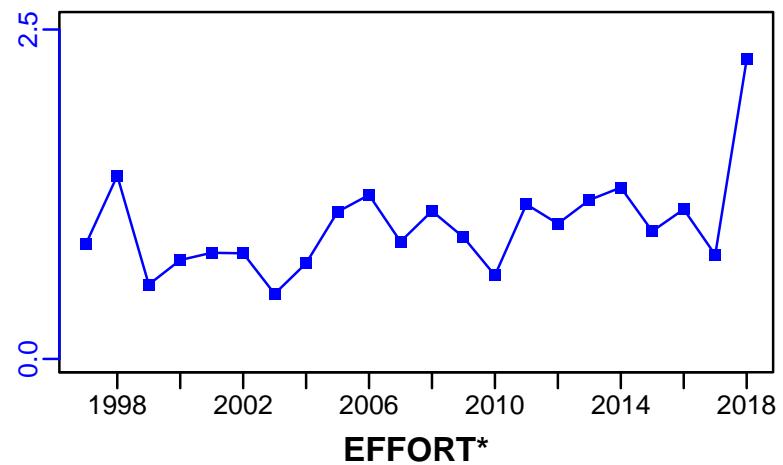
Blackmouth dogfish ICES 8–9a [BMDOGVIII–IXa]

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

TAC*, Cpair*, Cadv*



survB–MT (1997–2018–ICESIMP2021)



EFFORT*

CPUE*

CdivMSY*

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

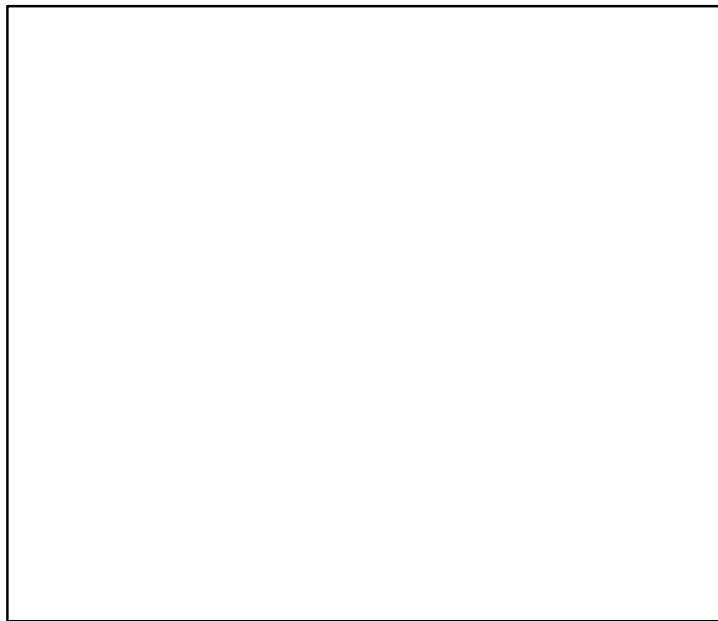
Blackmouth dogfish ICES 6-7 [BMDOGVI-VII]

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

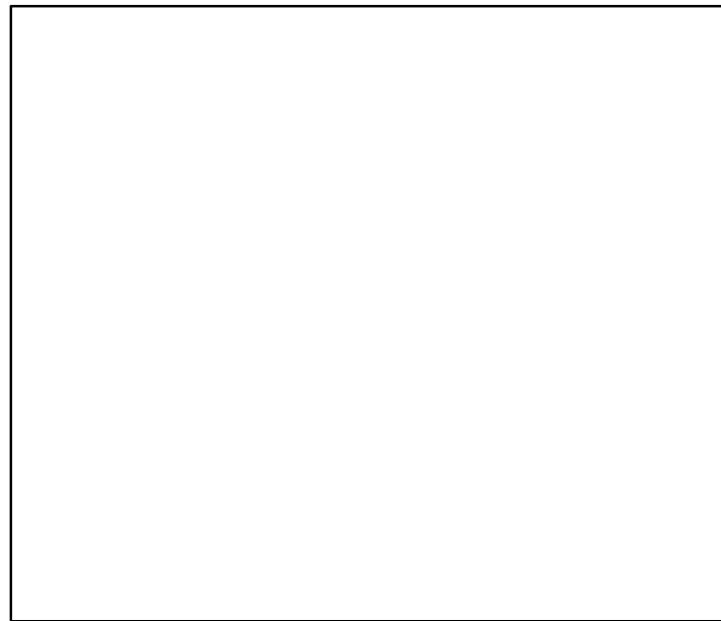
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	SSB-index	2018	61	-	-	-
TN	-	-	-	-	-	-
R	-	-	-	-	-	-
F	-	-	-	-	-	-
ER	-	-	-	-	-	-
TC	-	-	-			
TL	TL-MT	2018	0.015			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

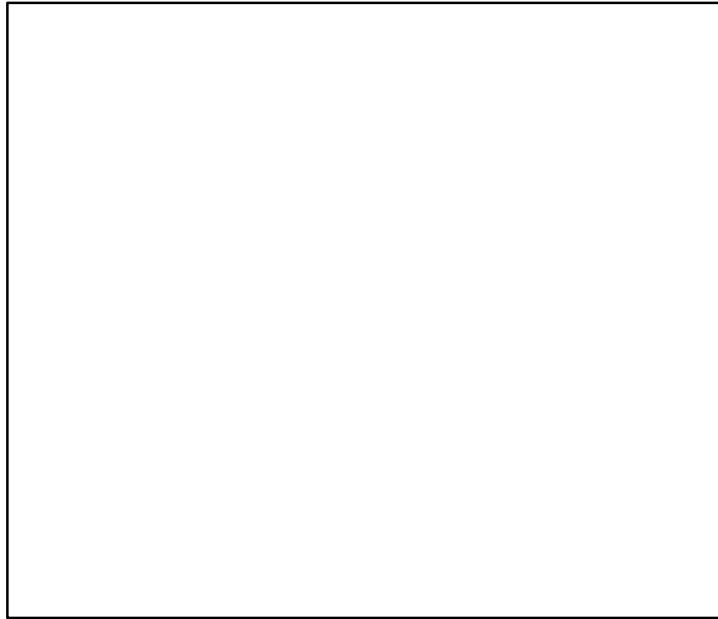
Kobe MSY*



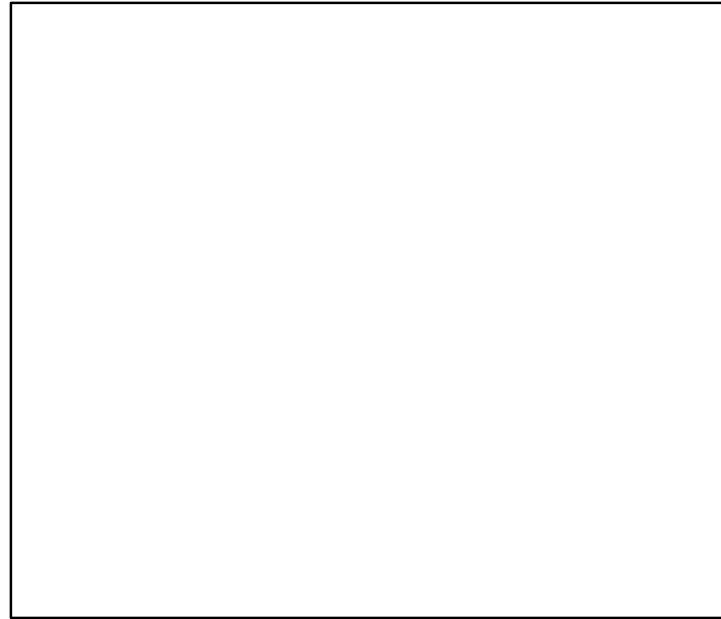
Kobe MGT*



Spawner Recruit*



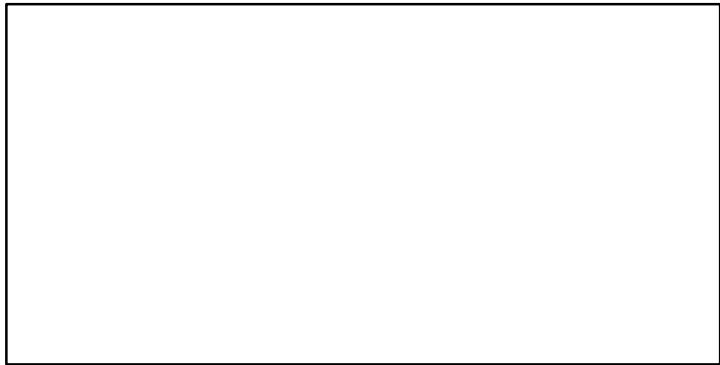
Production*



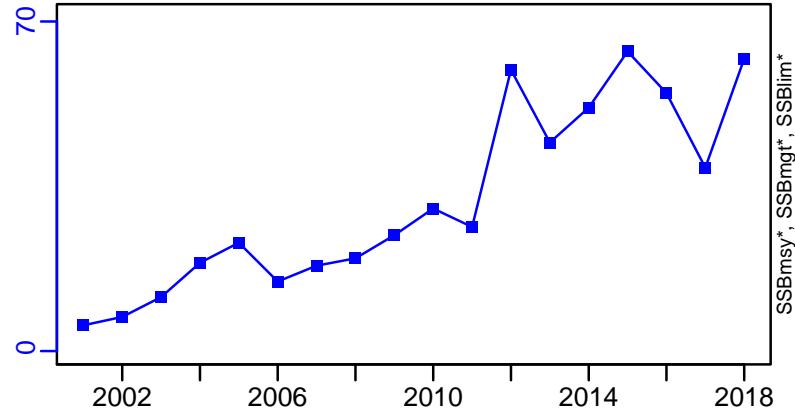
◆ Start Year ♦ End Year * No Data

Blackmouth dogfish ICES 6–7 [BMDOGVI–VII]

TB*

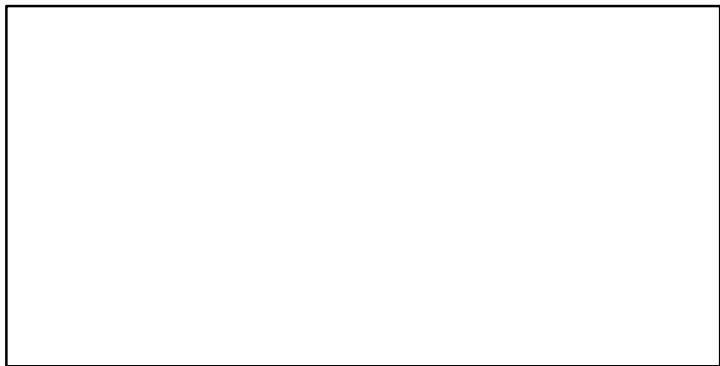


SSB–index (2001–2018–ICESIMP2021)

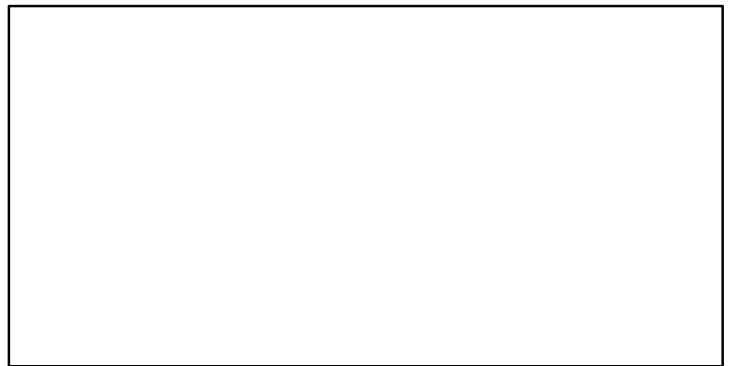


SSB_ms*, SSB_{mgt}* , SSB_{lim}*

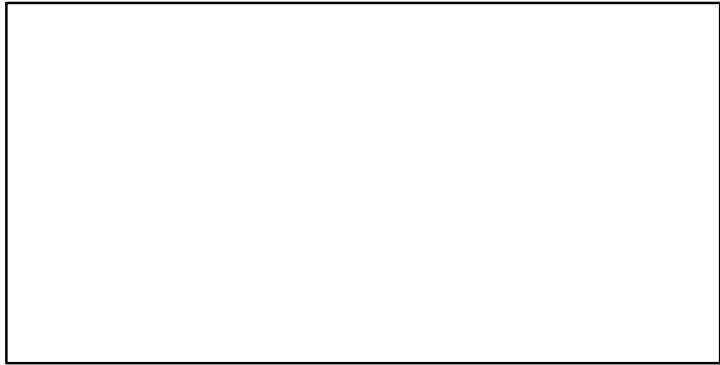
TN *



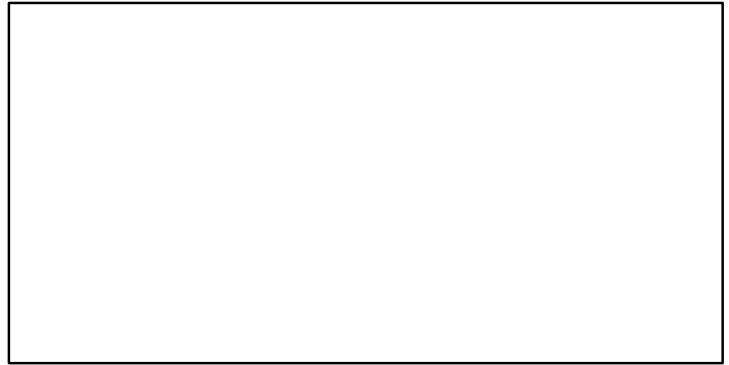
F*



ER*



Recruits*

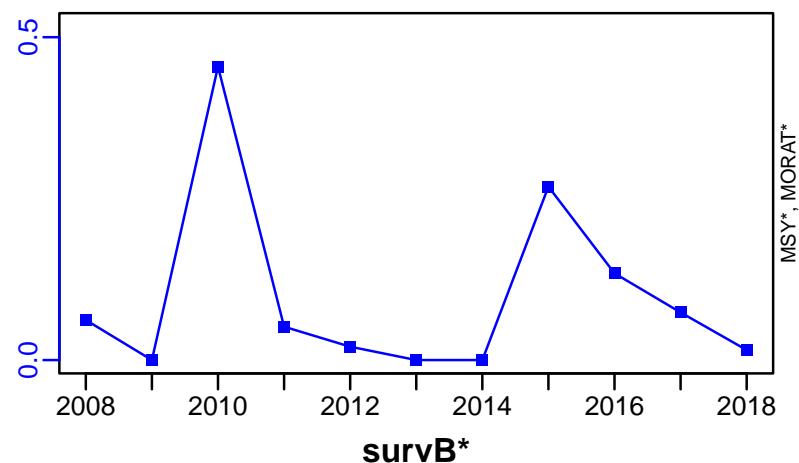


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

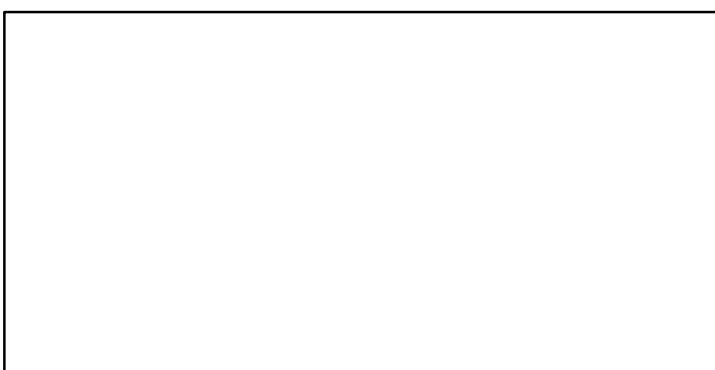
Blackmouth dogfish ICES 6–7 [BMDOGVI–VII]

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

TAC*, Cpair*, Cadv*

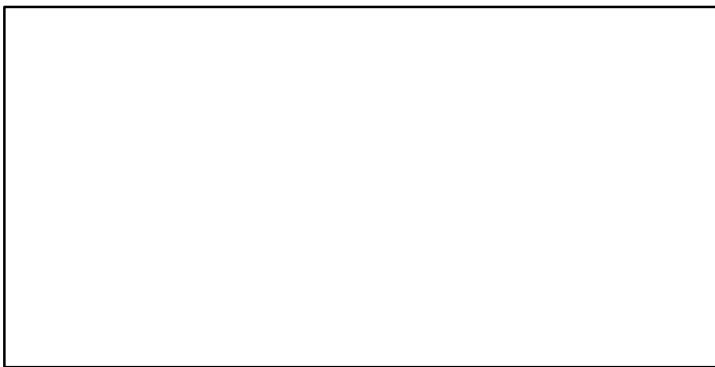


MSY*, MORAT*

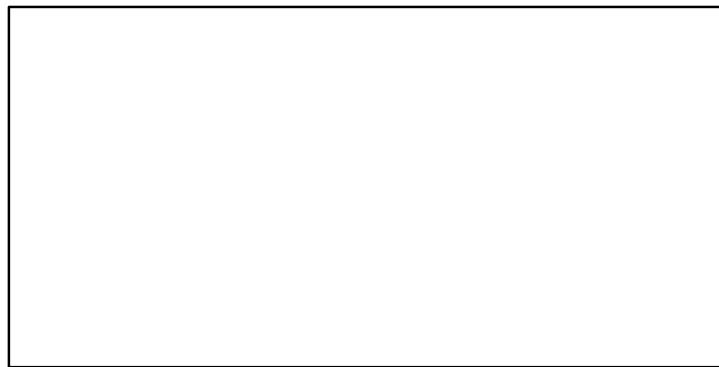


CPUE*

EFFORT*



CdivMSY*



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

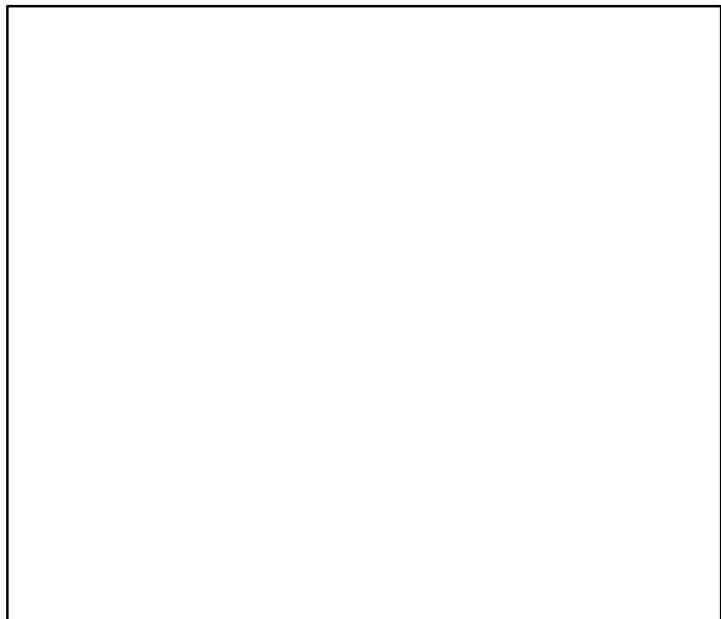
Boarfish ICES 6-8 [BOARVI-VIII]

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

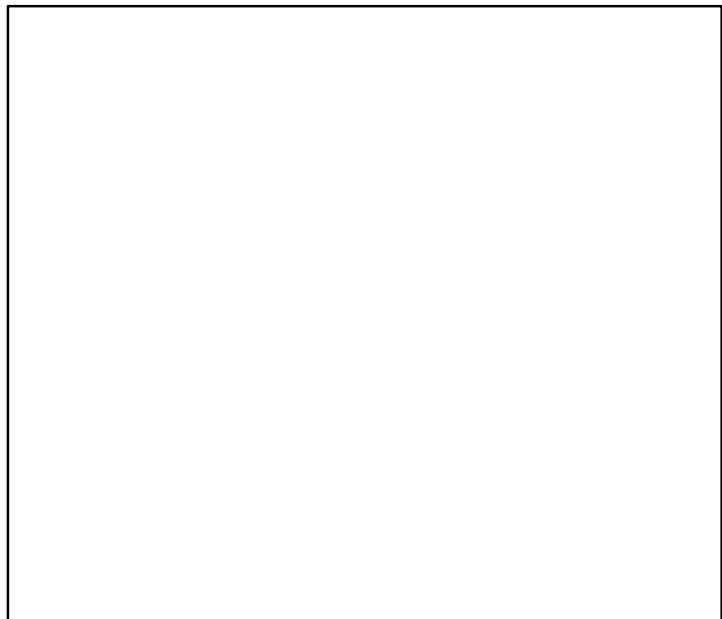
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-relative	2016	0.262	Both	-	
SSB	SSB-index	2019	270,900	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2016	0.581	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2019	11,286			
TL	TL-MT	2019	9927			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	FdivFmsy-dimensionless	2017	0.609			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

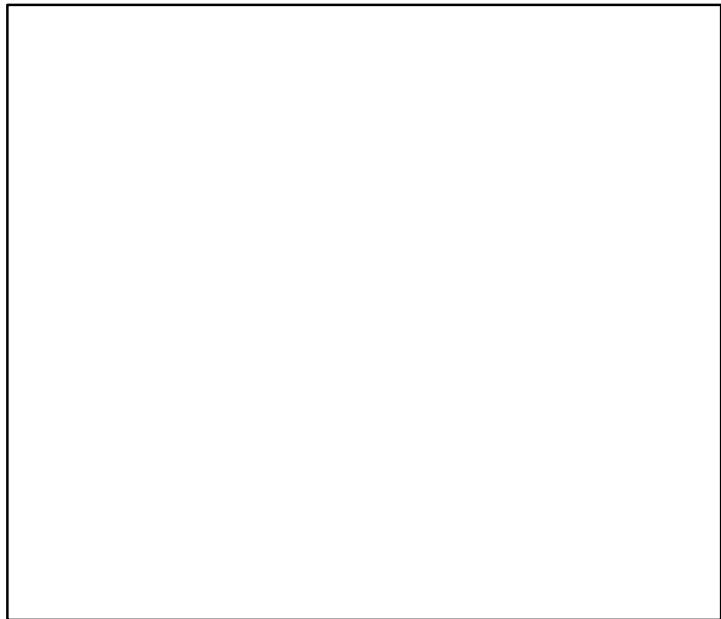
Kobe MSY*



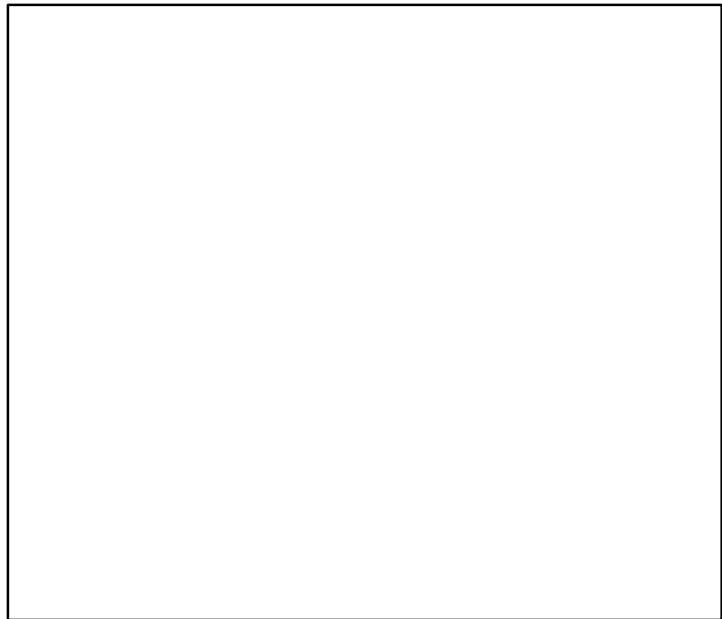
Kobe MGT*



Spawner Recruit*



Production*

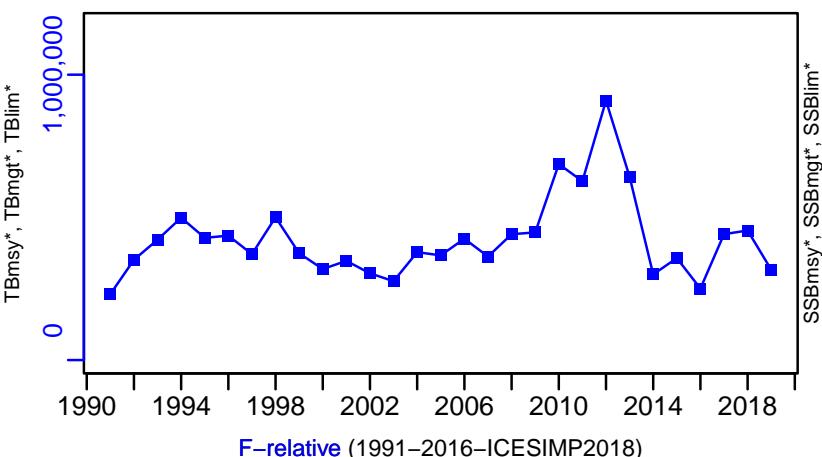
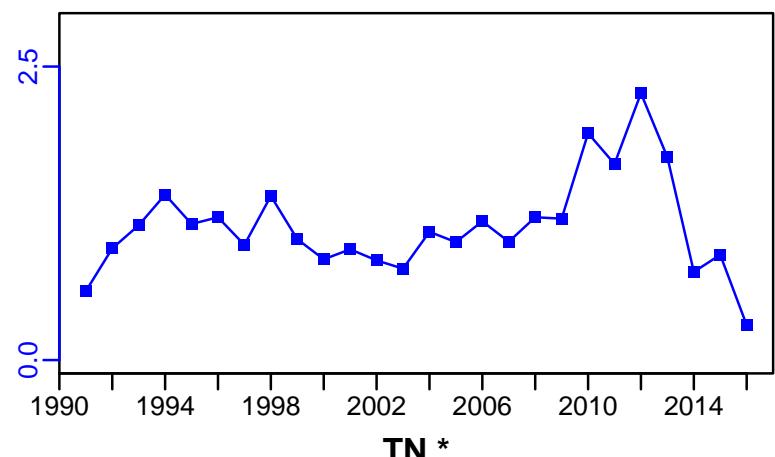


◆ Start Year ♦ End Year * No Data

Boarfish ICES 6–8 [BOARVI–VIII]

TB-relative (1991–2016–ICESIMP2018)

SSB-index (1991–2019–ICESIMP2021)



TN *

F-relative (1991–2016–ICESIMP2018)

SSB_ms^y* , SSB_mg^t* , SSB_{lim}*

ER*

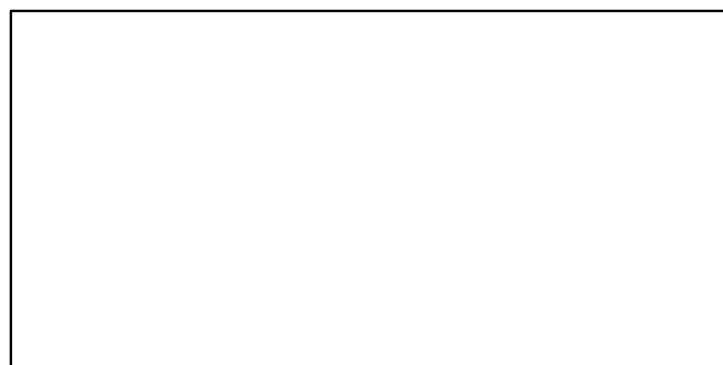
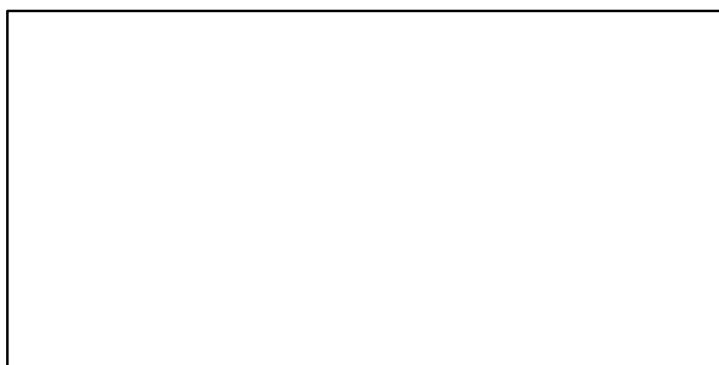
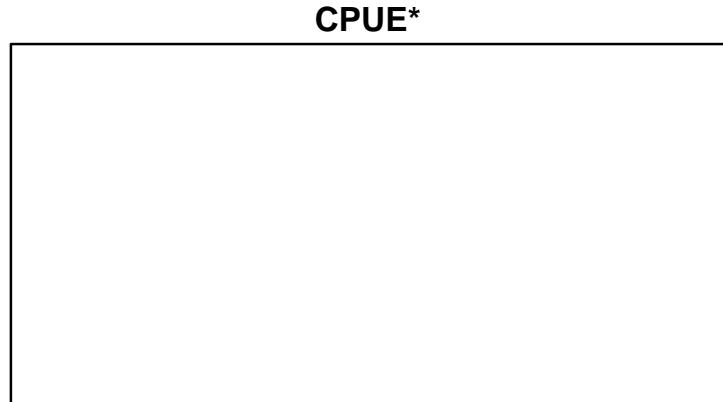
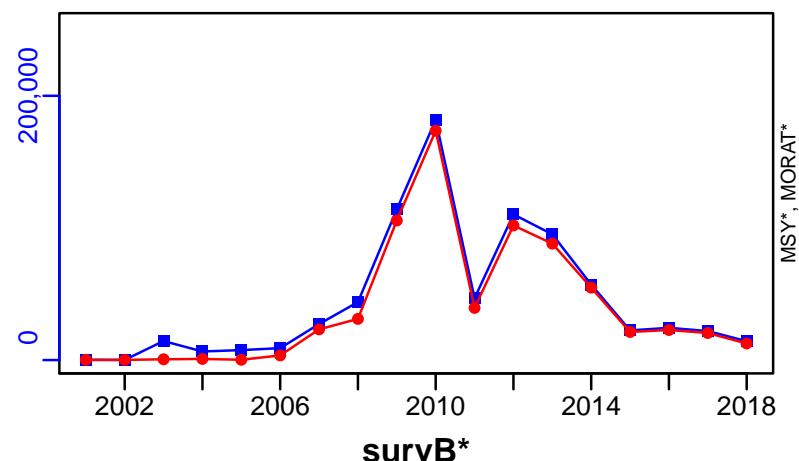
Recruits*

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

Boarfish ICES 6–8 [BOARVI–VIII]

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

TAC*, Cpair*, Cadv*



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

Brill Baltic Areas 22-32 [BRILL2232]

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

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

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

Kobe MSY*

Kobe MGT*

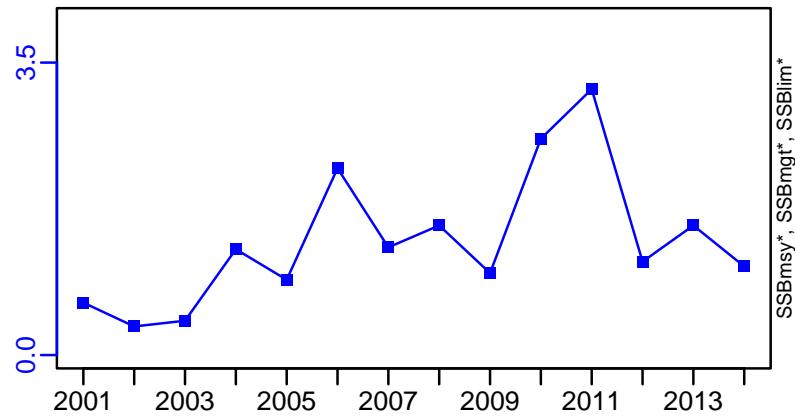
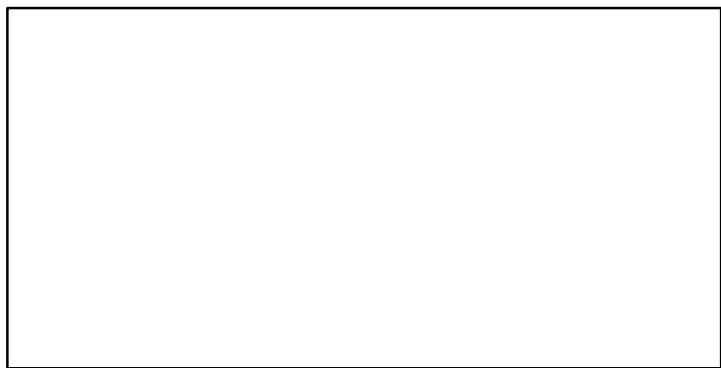
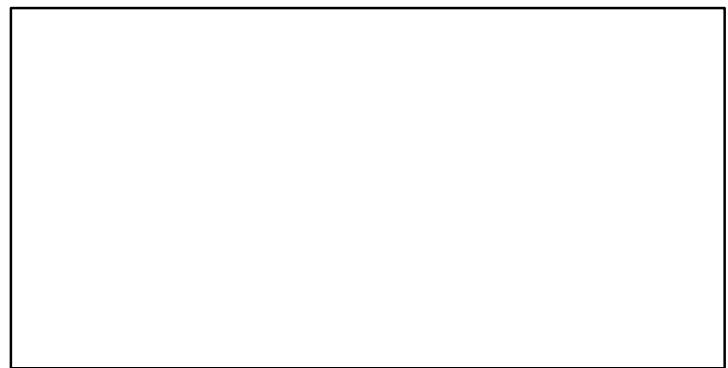
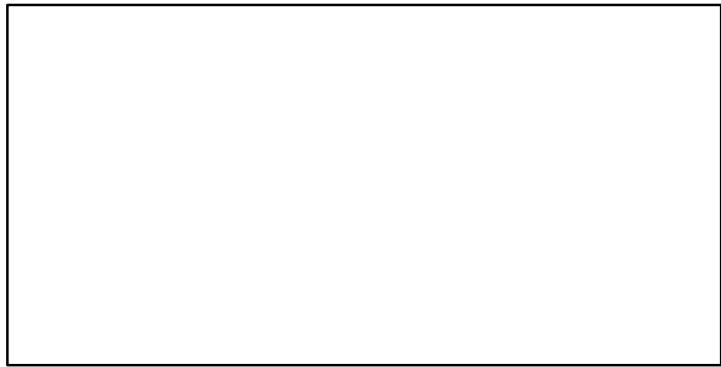
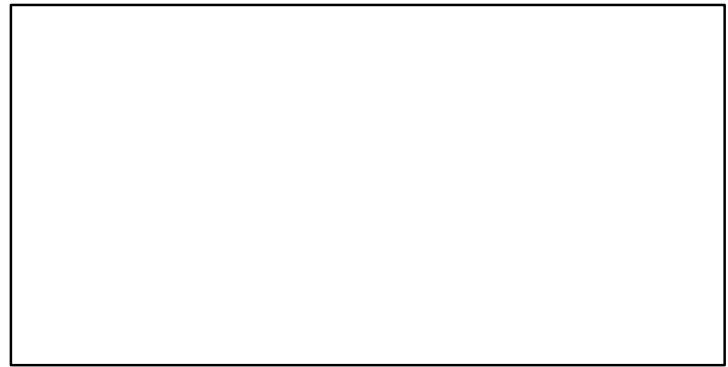
Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

TB*

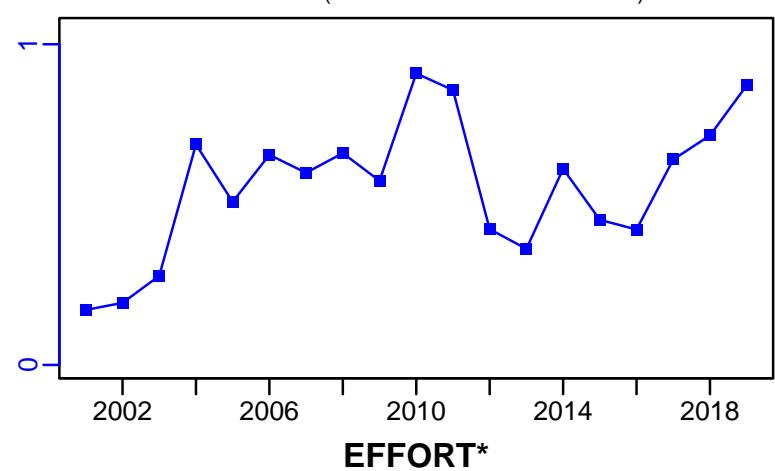
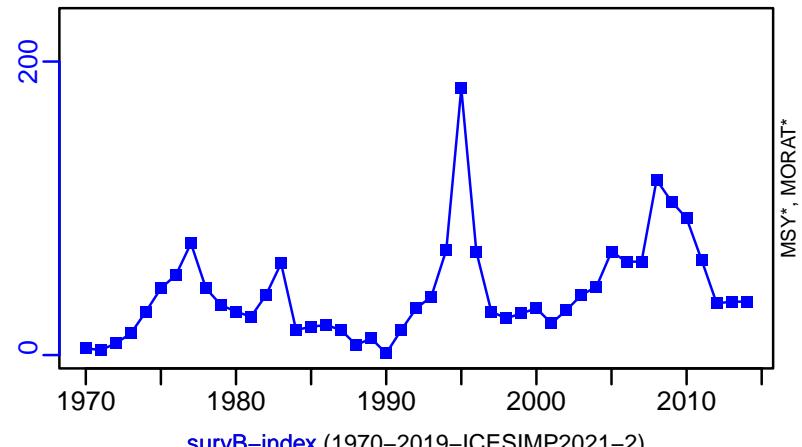
SSB-index (1970–2014–ICESIMP2018)

**TN *****F*****ER*****Recruits***

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

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

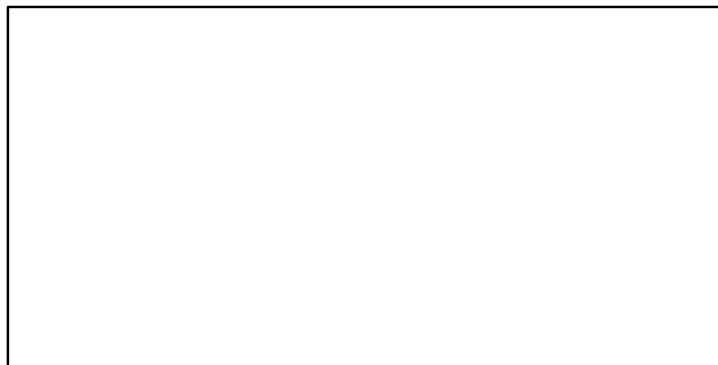
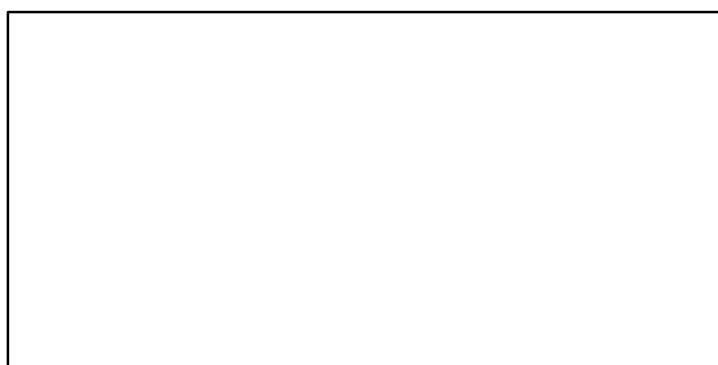
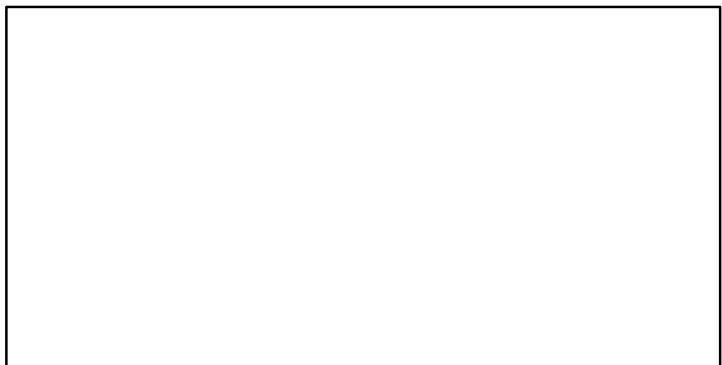
TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

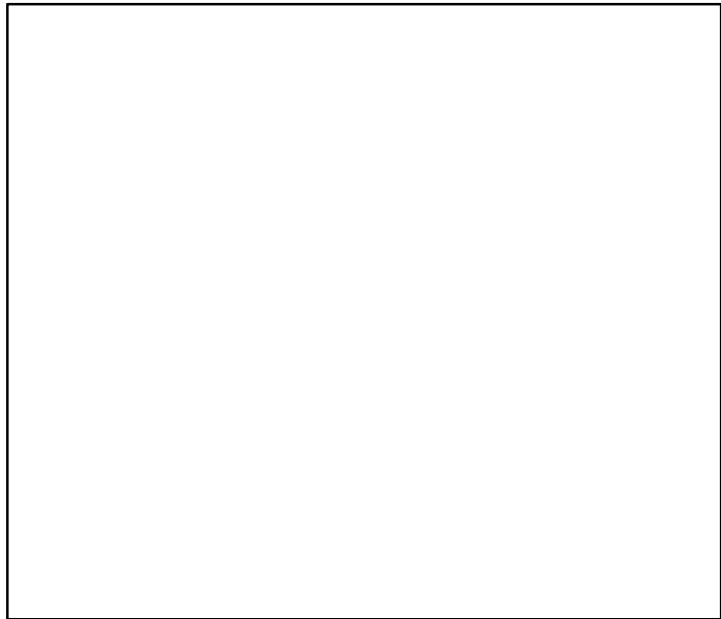
Brill ICES 3a-4-7de [BRILLIIla-IV-VIilde]

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

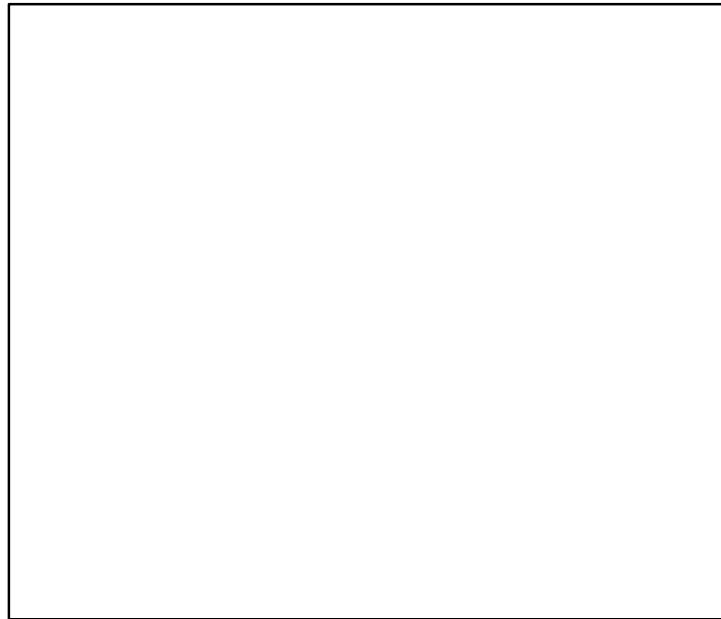
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

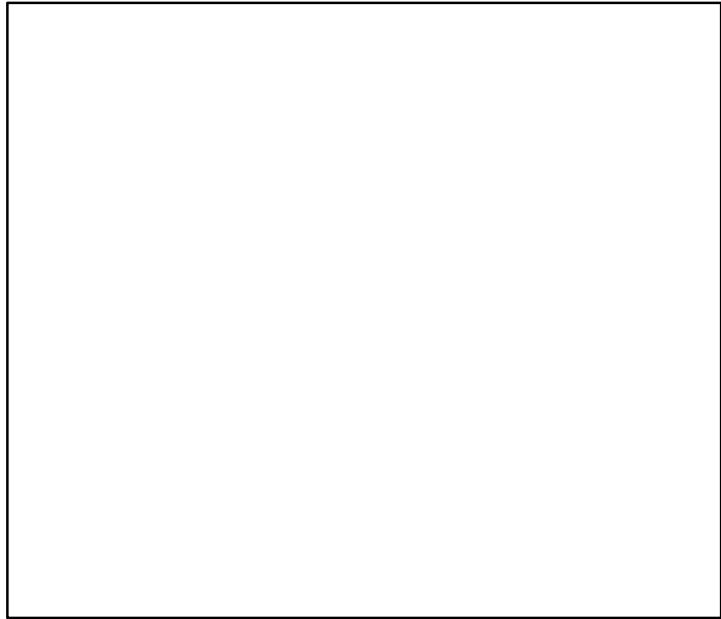
Kobe MSY*



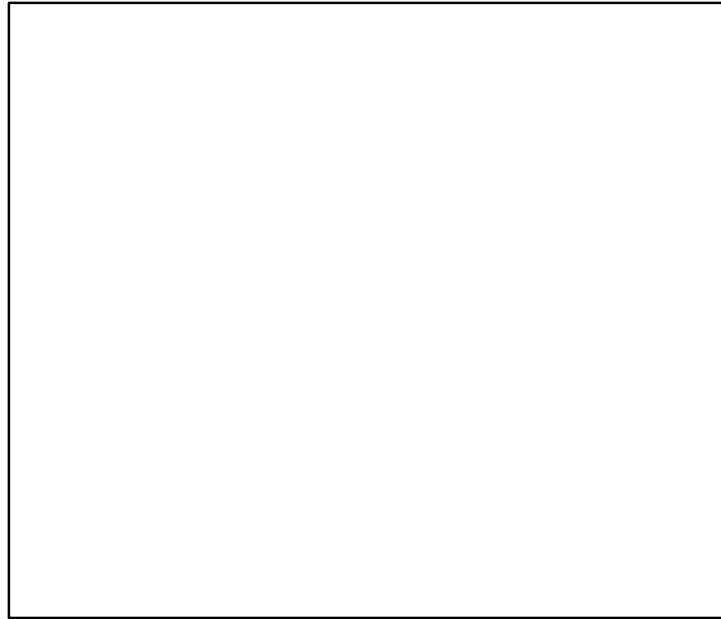
Kobe MGT*



Spawner Recruit*



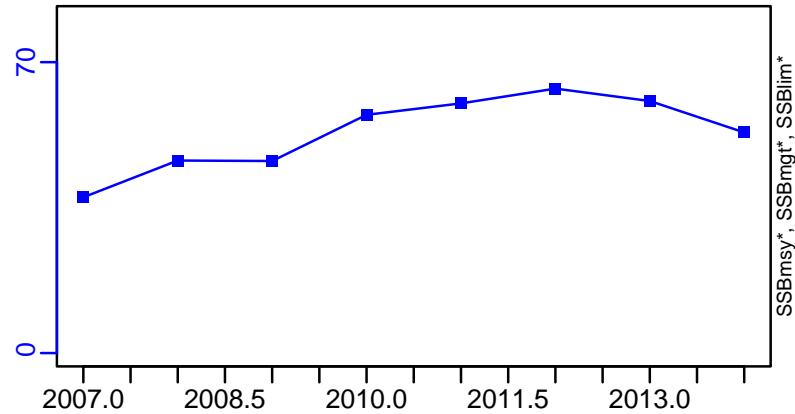
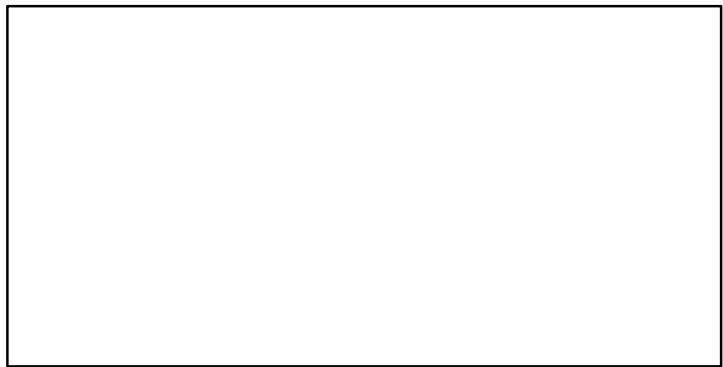
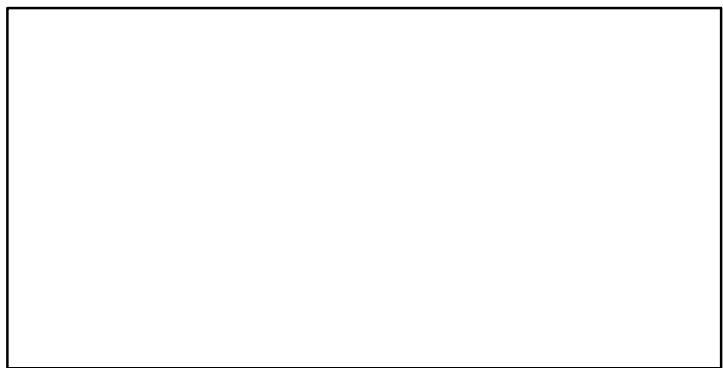
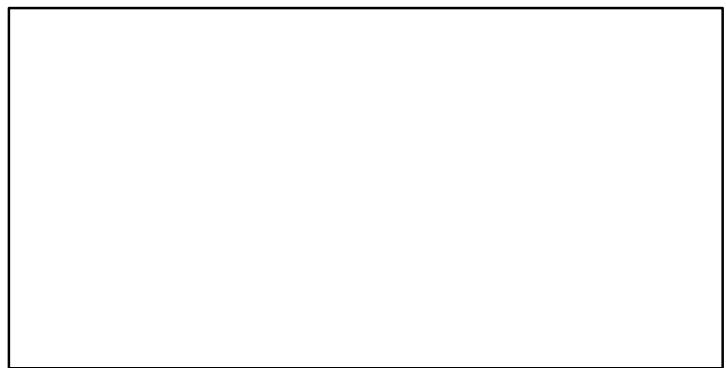
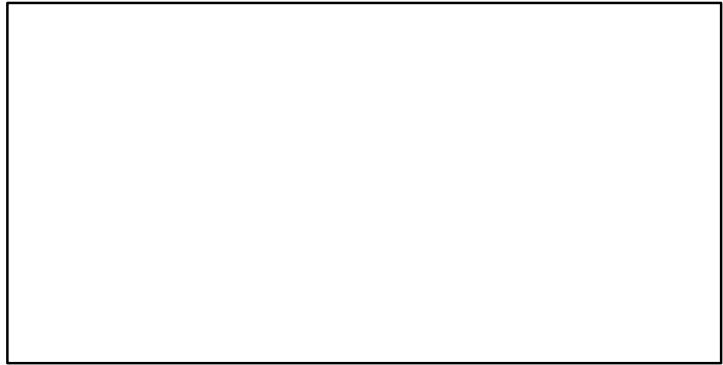
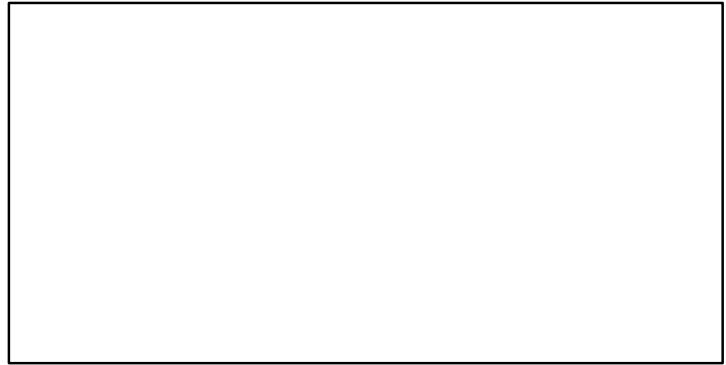
Production*



◆ Start Year ♦ End Year * No Data

TB*

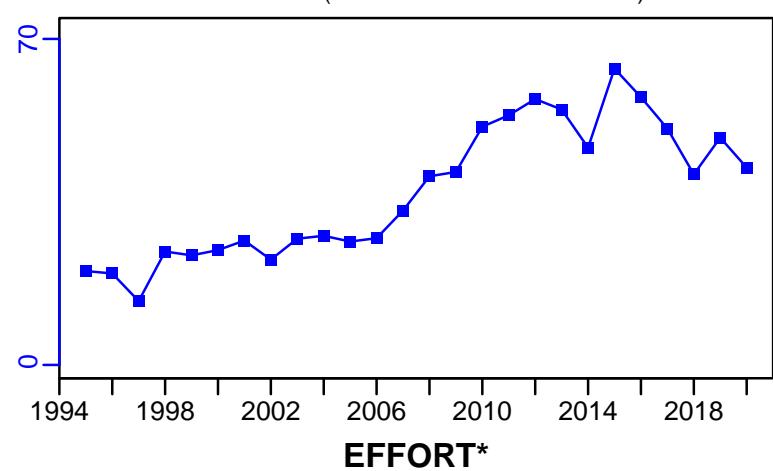
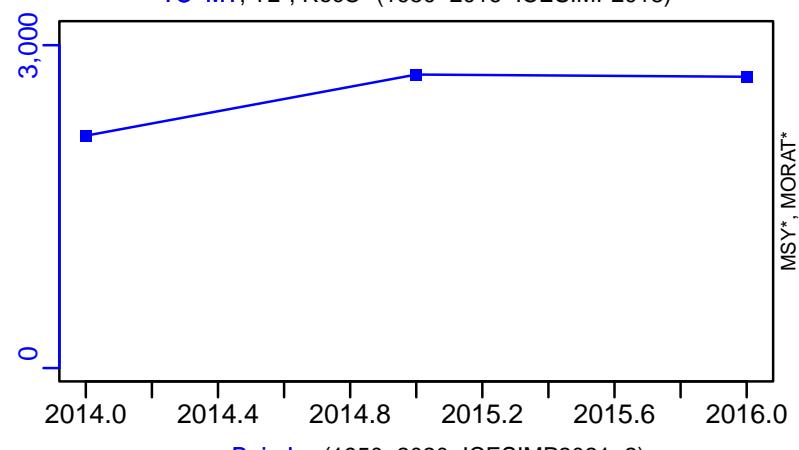
SSB-index (1950–2014–ICESIMP2018)

**TN *****F*****ER*****Recruits***

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

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

TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Basking shark Northeast Atlantic [BSKSHARNEATL]

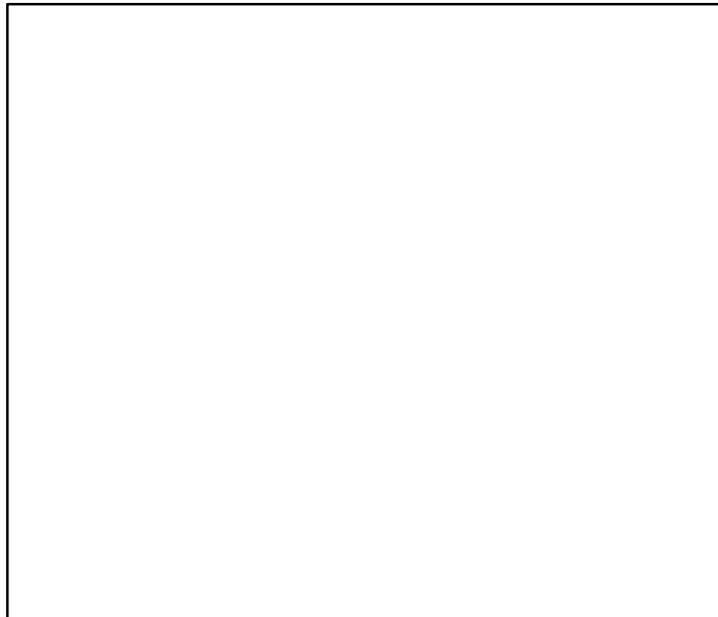
Metadata	
Scientific Name	Cetorhinus maximus
Current Assess ID	WGEF-BSKSHARNEATL-1977-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018

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

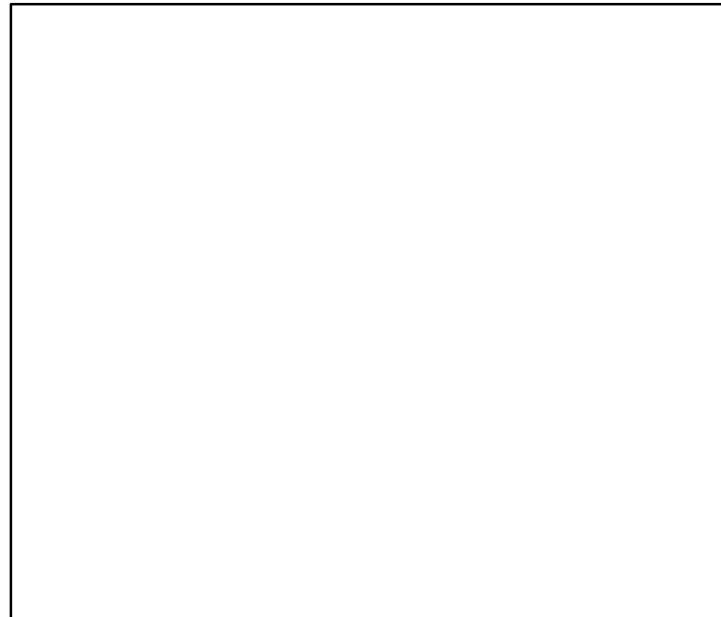
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Basking shark Northeast Atlantic [BSKSHARNEATL]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Basking shark Northeast Atlantic [BSKSHARNEATL]

TB*



SSB*



TN *



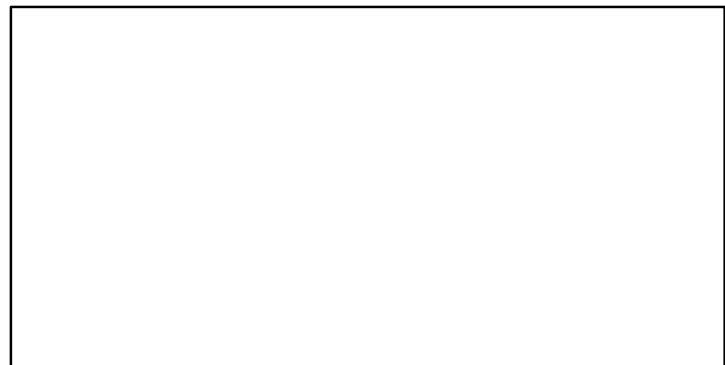
F*



ER*



Recruits*

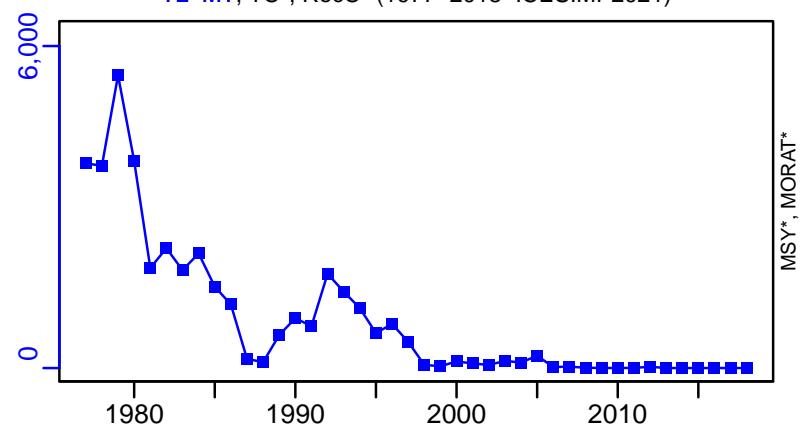


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Basking shark Northeast Atlantic [BSKSHARNEATL]

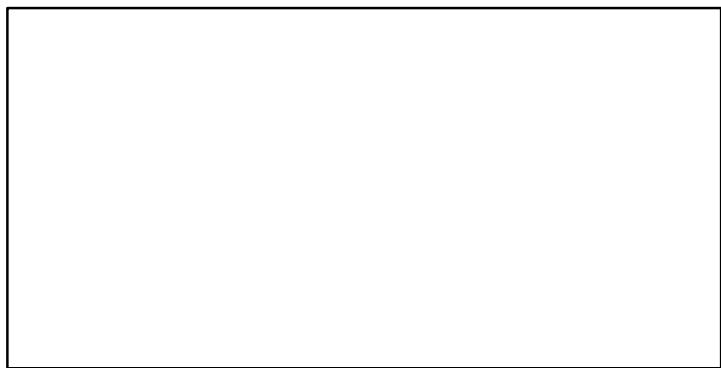
TL-MT, TC*, RecC* (1977–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*

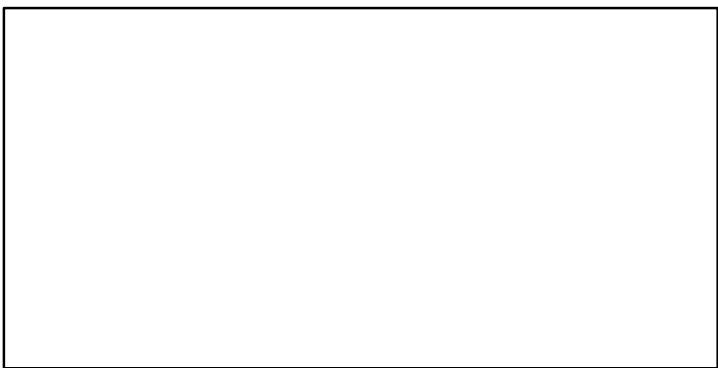


survB*

MSY*, MORAT*



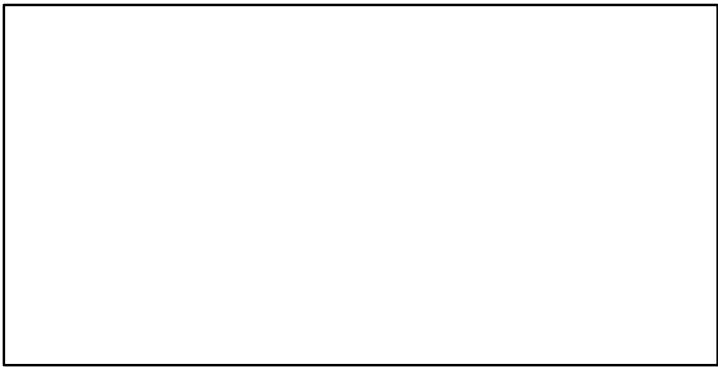
CPUE*



EFFORT*



CdivMSY*



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

Blue whiting Northeast Atlantic [BWHITNEA]

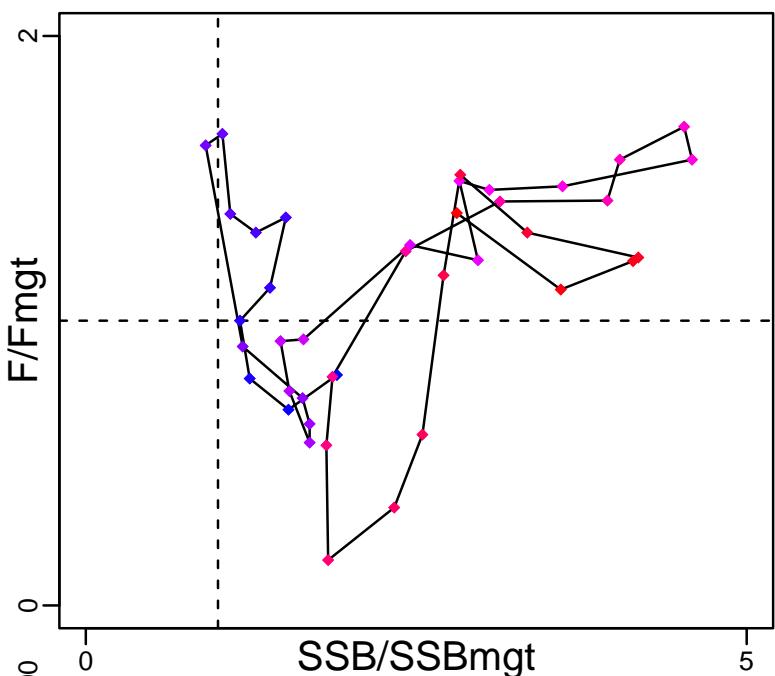
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	WGWISE-BWHITNEA-1981-2022-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2012, 2013, 2014, 2015, 2017,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

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

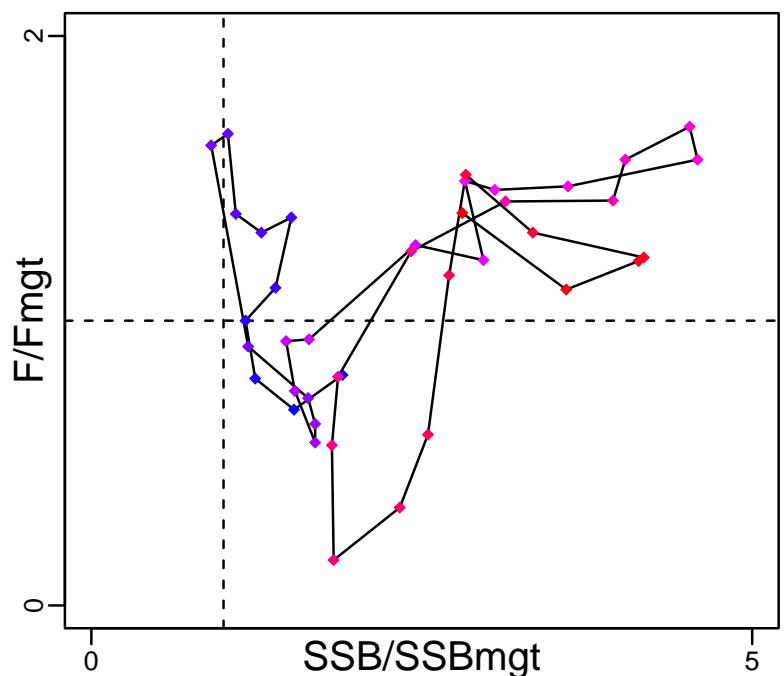
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	5,700,362	-	-
SSB	SSB-MT	2022	3,400,000	-	-
TN	-	-	-	-	-
R	R-E00	2022	2.98×10^{10}	-	1
F	F-1/yr	2022	0.508	-	-
ER	ER-calc-ratio	2020	0.21	-	-
TC	TC-MT	2022	1,240,000		
TL	TL-MT	2022	1,240,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy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

Blue whiting Northeast Atlantic [BWHITNEA]

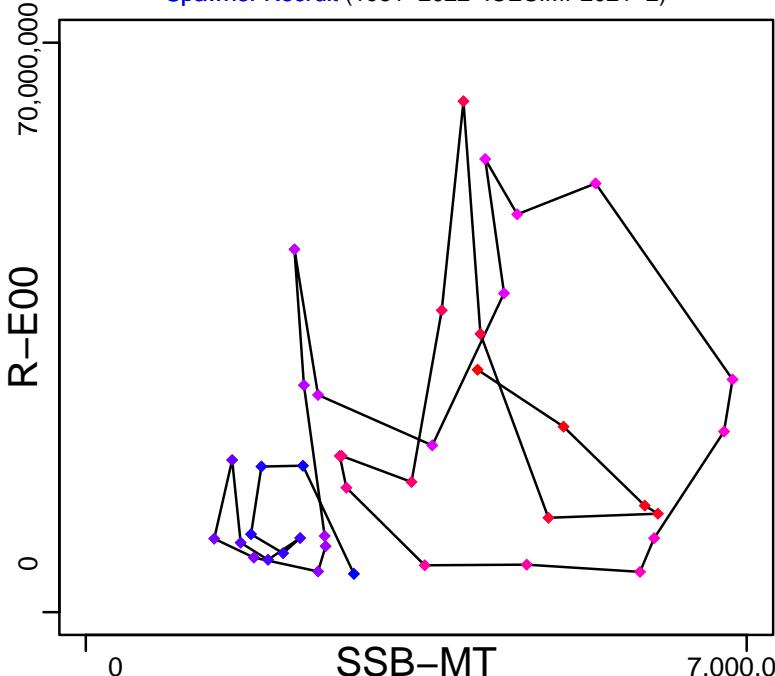
Kobe MSYpref (1981–2021–ICESIMP2021–2)



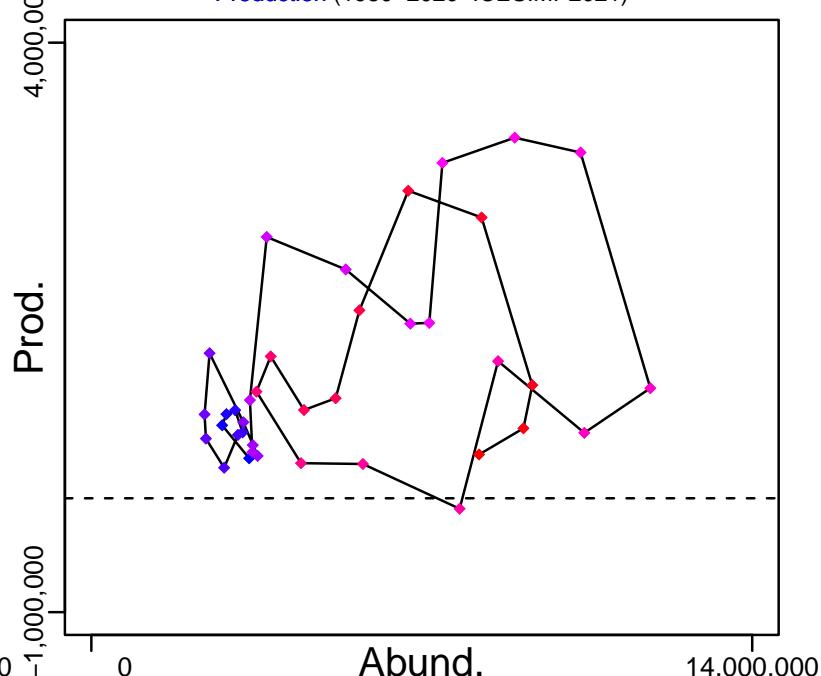
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2022–ICESIMP2021–2)



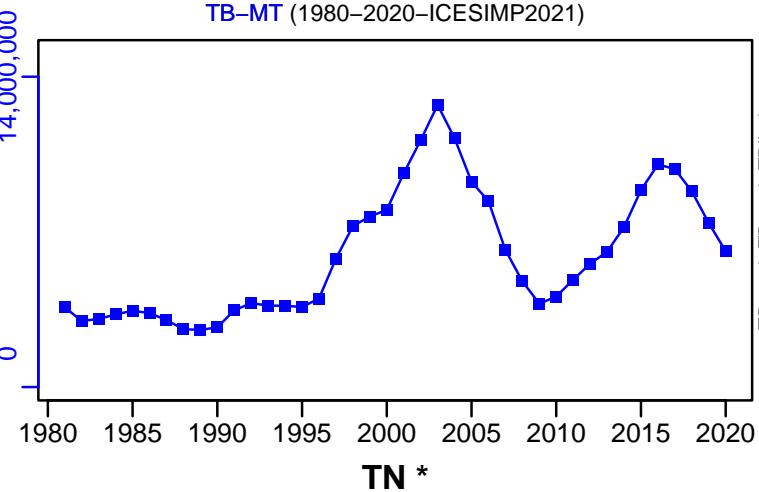
Production (1980–2020–ICESIMP2021)



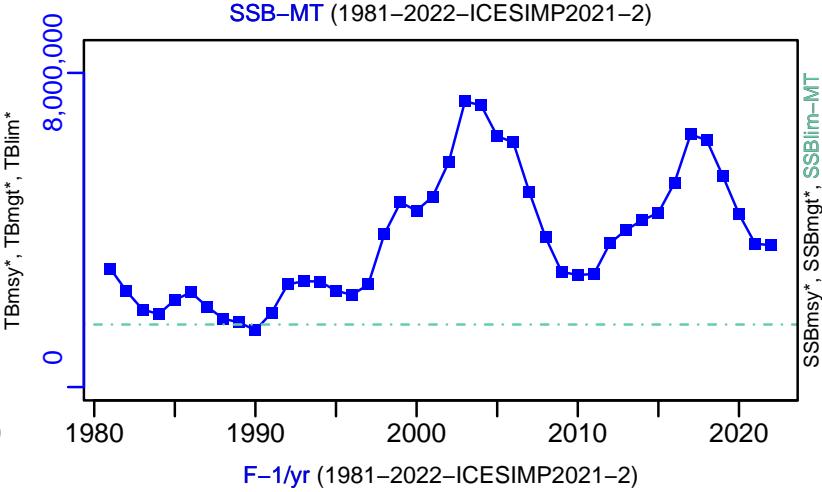
◆ Start Year ◆ End Year * No Data

Blue whiting Northeast Atlantic [BWHITNEA]

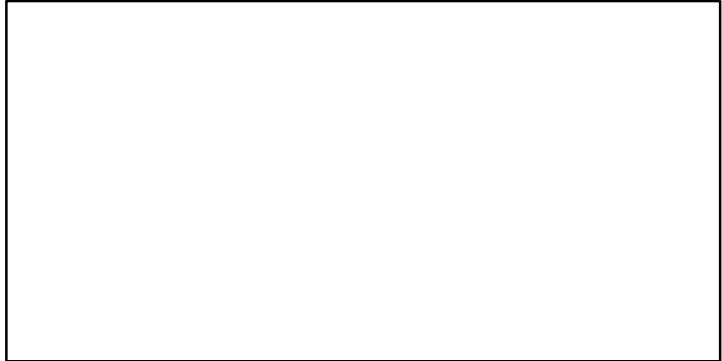
TB-MT (1980–2020–ICESIMP2021)



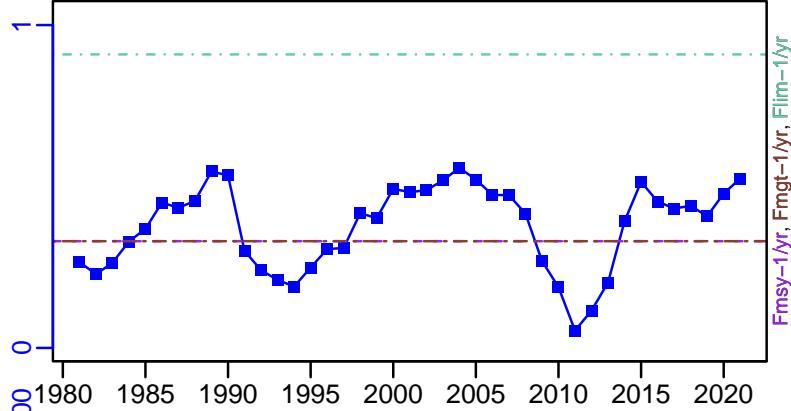
SSB-MT (1981–2022–ICESIMP2021–2)



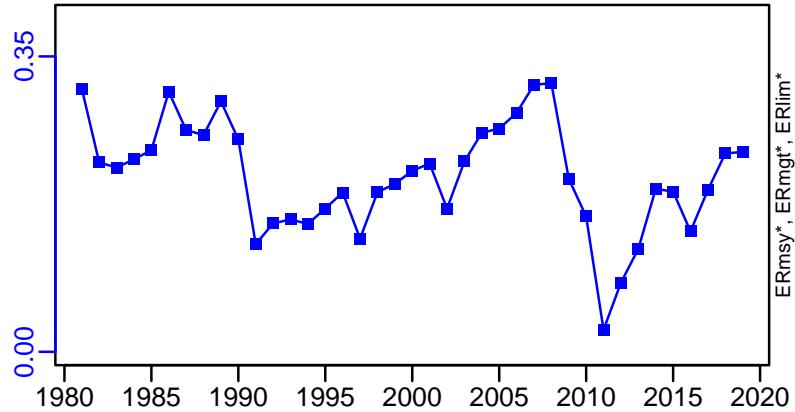
TN *



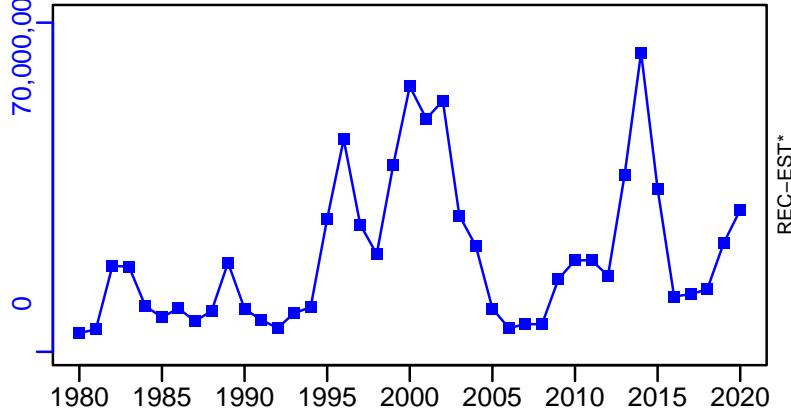
F-1/yr (1981–2022–ICESIMP2021–2)



ER-calc-ratio (1980–2020–ICESIMP2021)



R-E00 (1981–2022–ICESIMP2021–2)

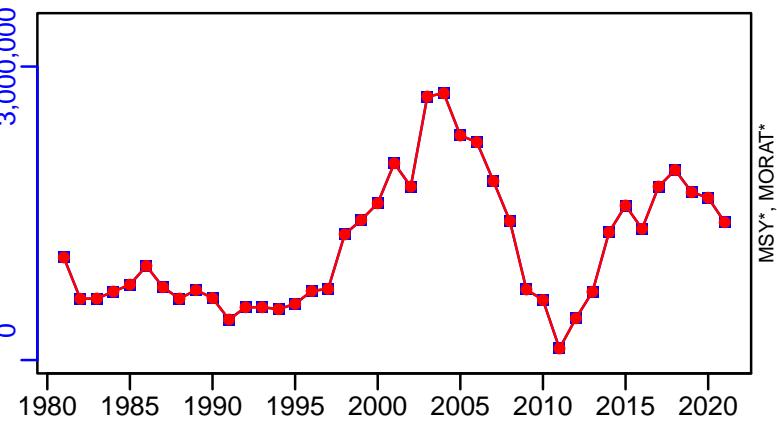


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

Blue whiting Northeast Atlantic [BWHITNEA]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

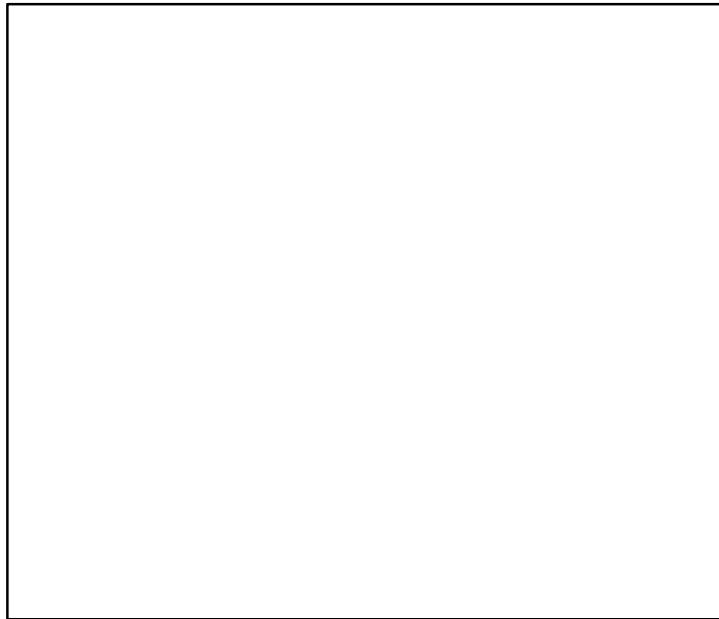
Cuckoo ray ICES 3a-4 [CKRAYIIIa-IV]

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

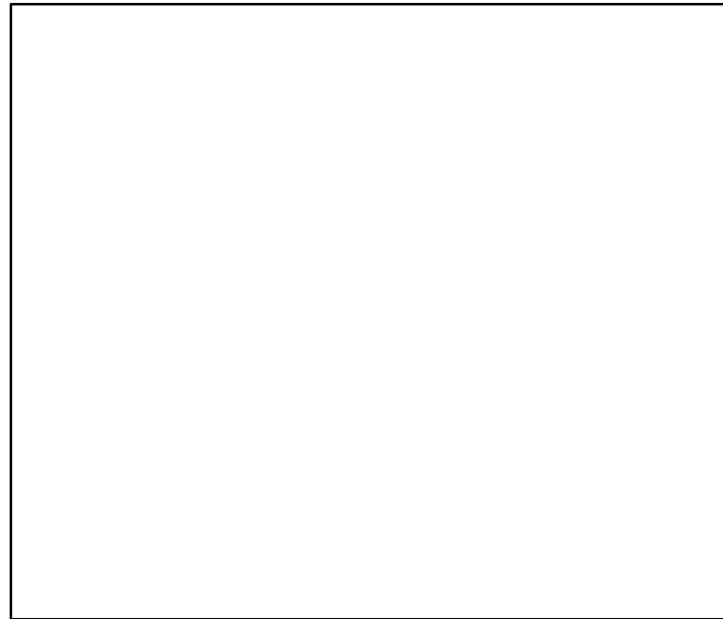
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

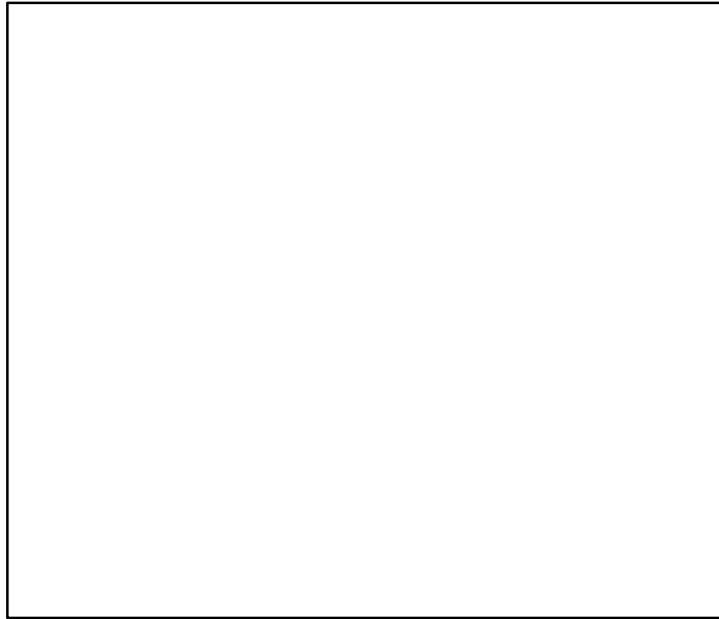
Kobe MSY*



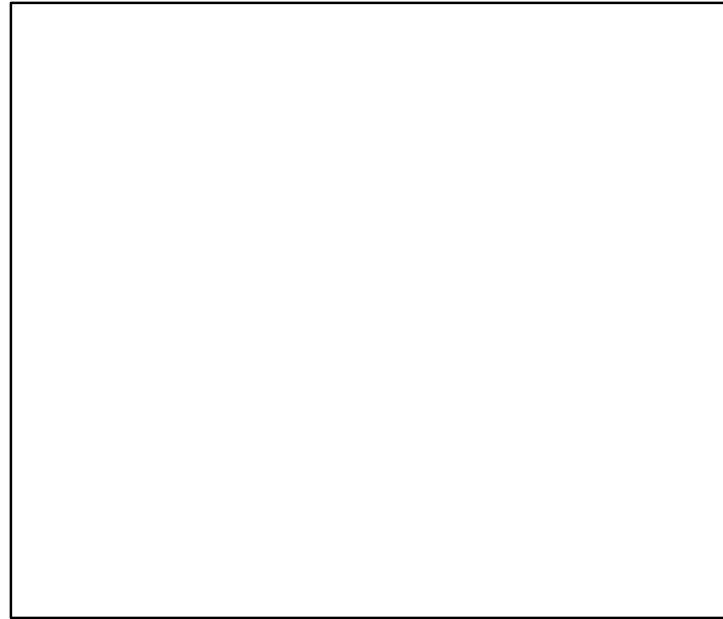
Kobe MGT*



Spawner Recruit*



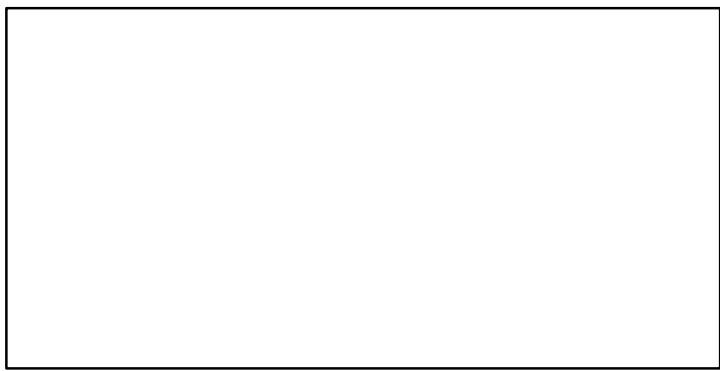
Production*



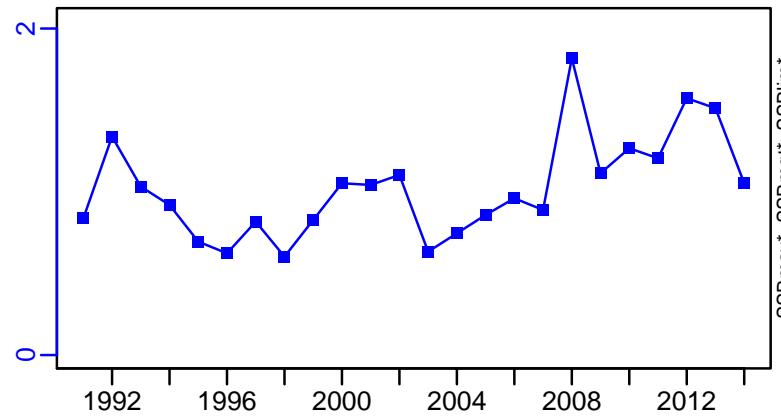
◆ Start Year ♦ End Year * No Data

Cuckoo ray ICES 3a–4 [CKRAYIIIa–IV]

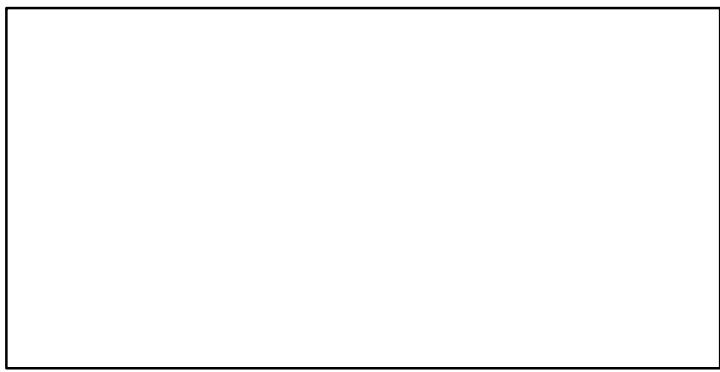
TB*



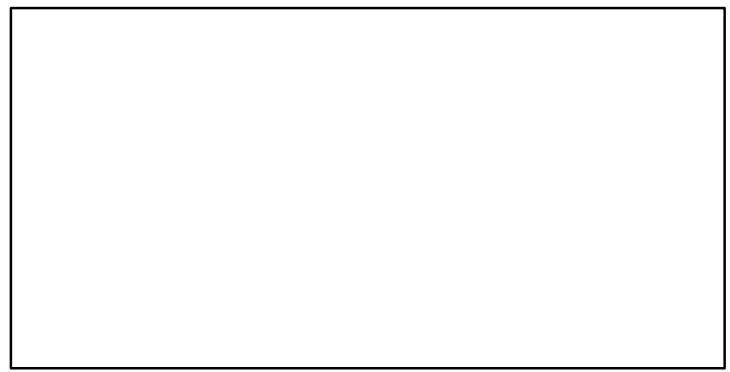
SSB-index (1991–2014–ICESIMP2018)



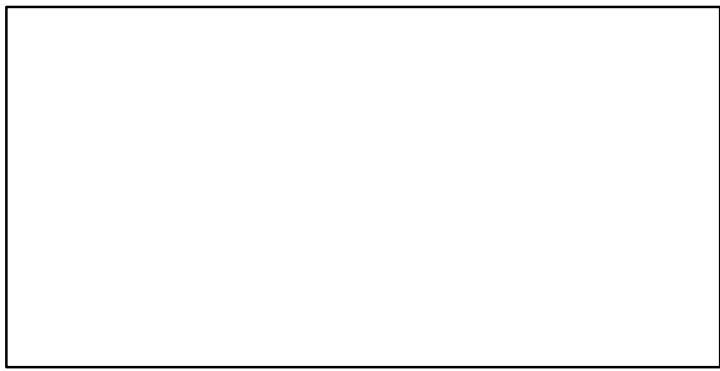
TN *



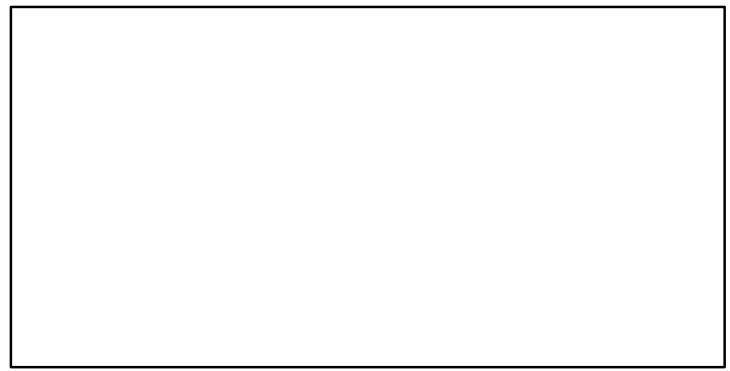
F*



ER*



Recruits*

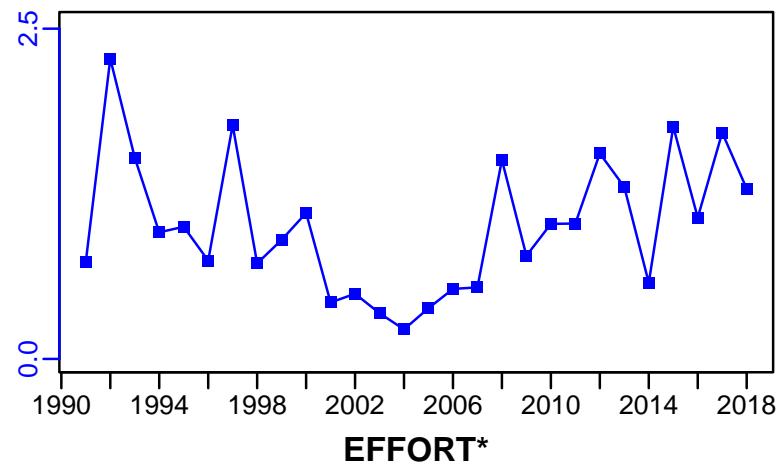
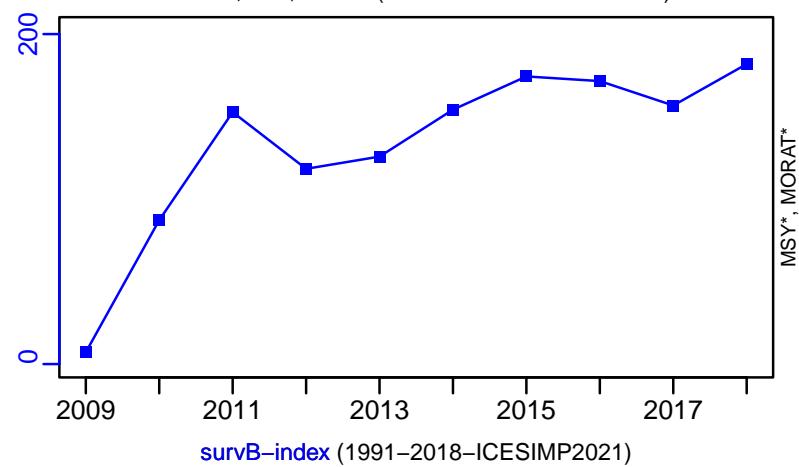


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

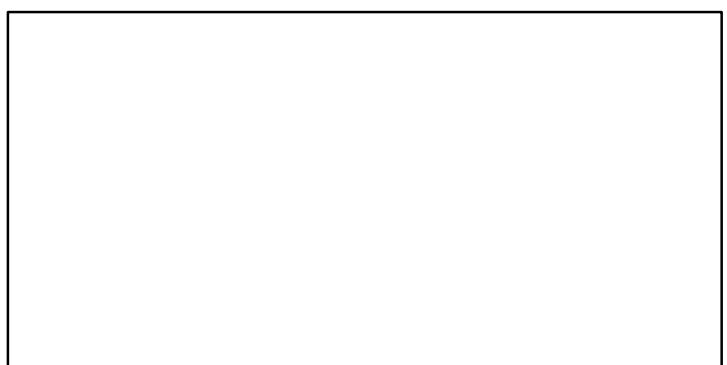
Cuckoo ray ICES 3a-4 [CKRAYIIIa-IV]

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

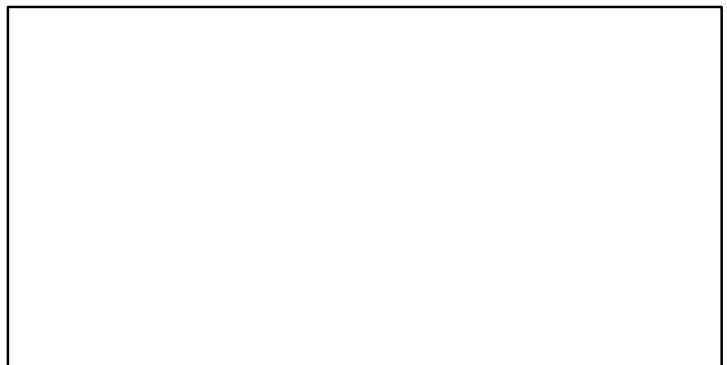
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

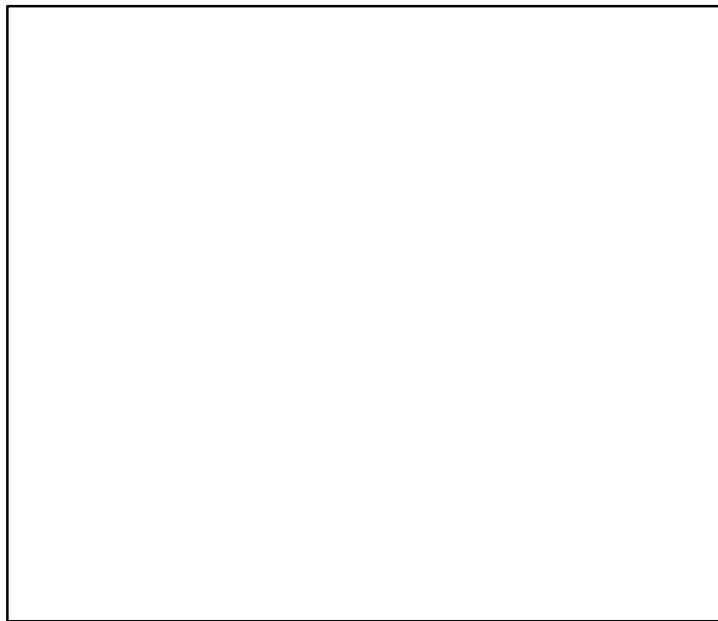
Cuckoo ray Portugese Waters -East [CKRAYIXa]

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

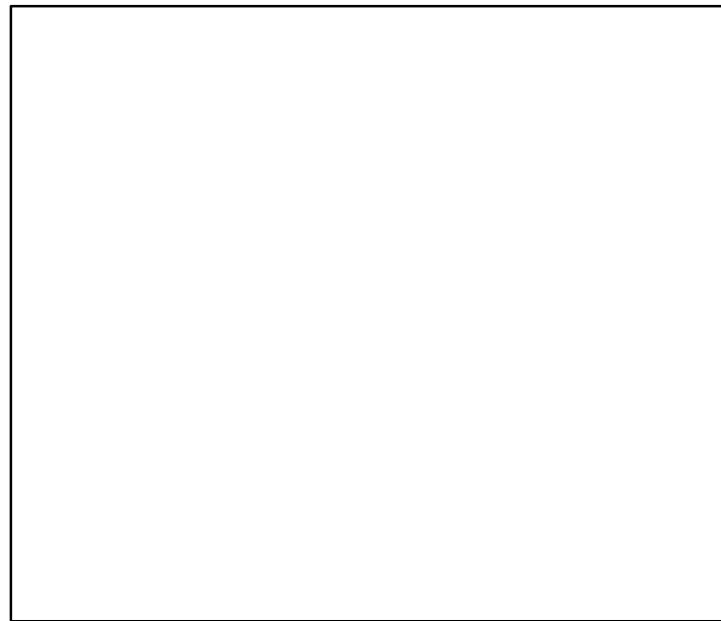
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

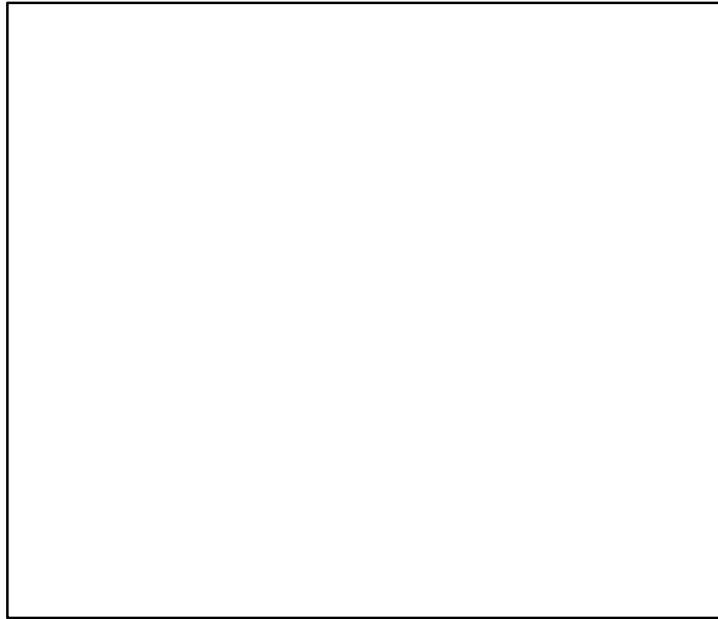
Kobe MSY*



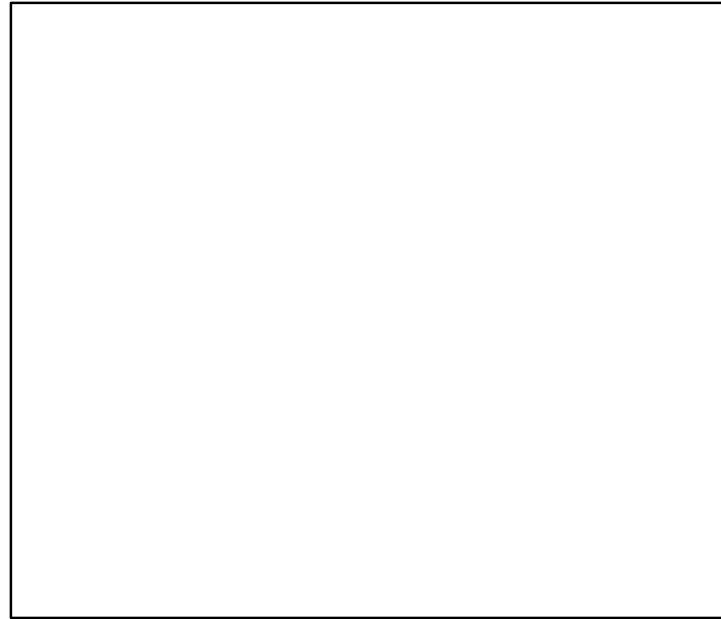
Kobe MGT*



Spawner Recruit*



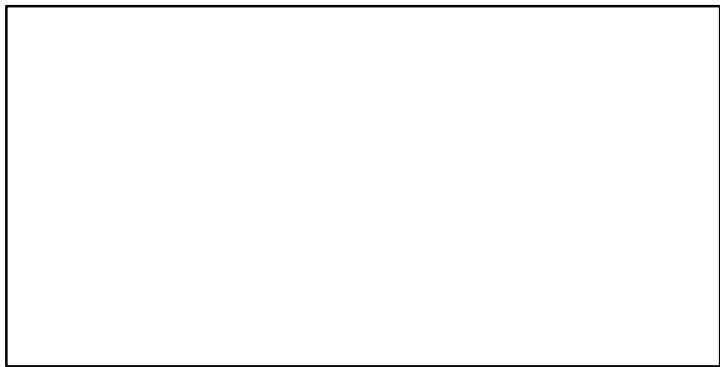
Production*



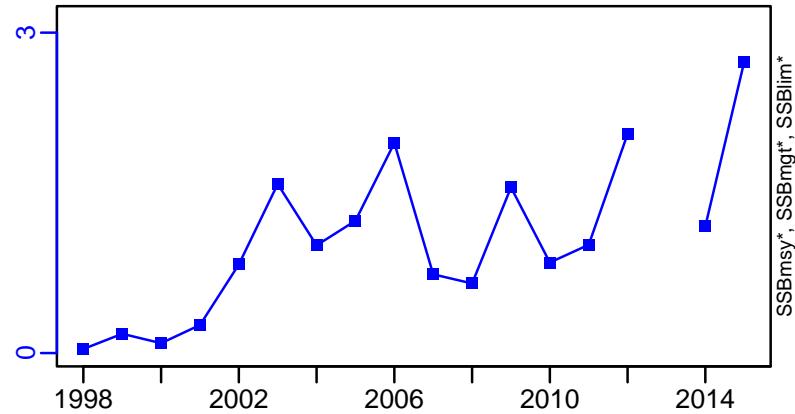
◆ Start Year ♦ End Year * No Data

Cuckoo ray Portugese Waters –East [CKRAYIXa]

TB*



SSB–index (1998–2015–ICESIMP2018)



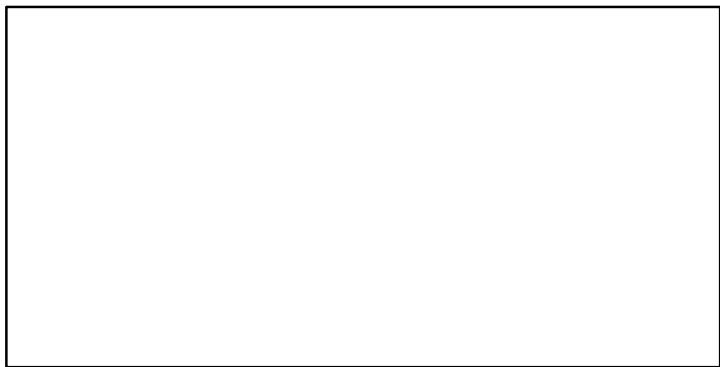
TN *



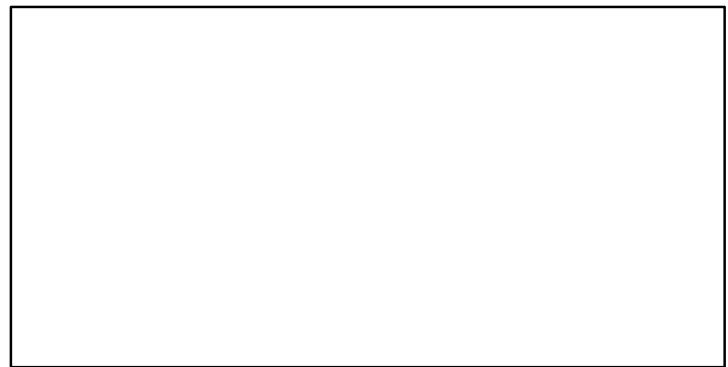
F*



ER*



Recruits*

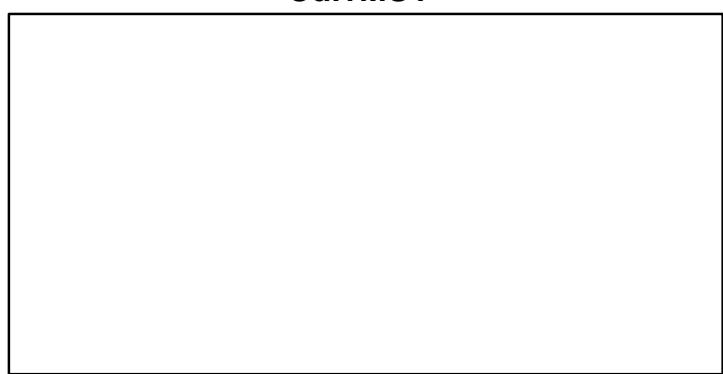
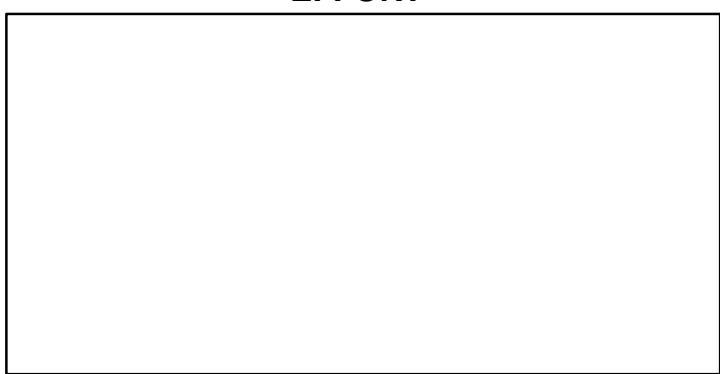
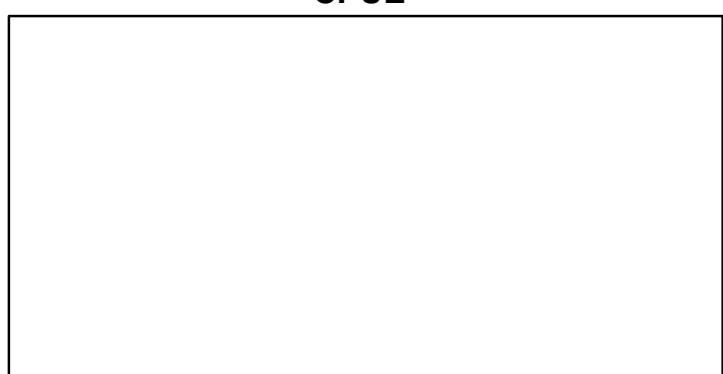
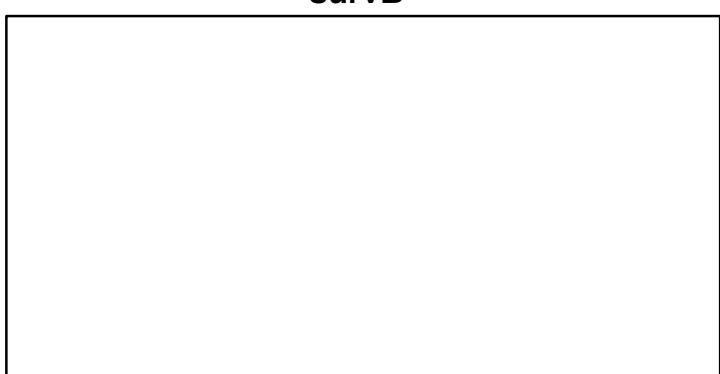
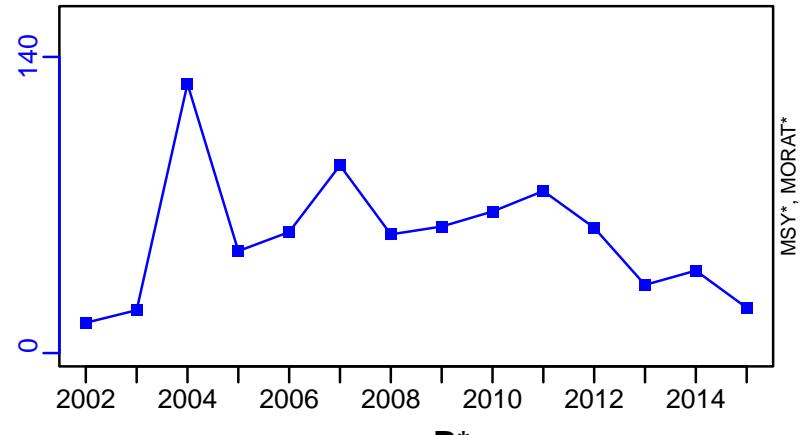


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Cuckoo ray Portuguese Waters –East [CKRAYIXa]

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

TAC*, Cpair*, Cadv*



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

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*

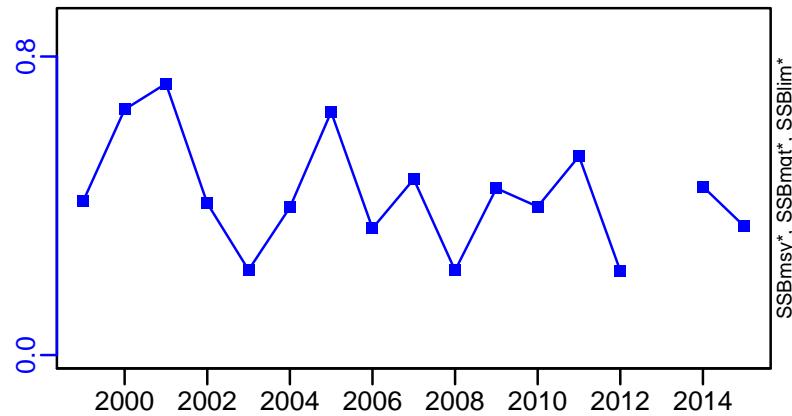
◆ Start Year ♦ End Year * No Data

Cuckoo ray Bay of Biscay –South [CKRAYVIIIC]

TB*

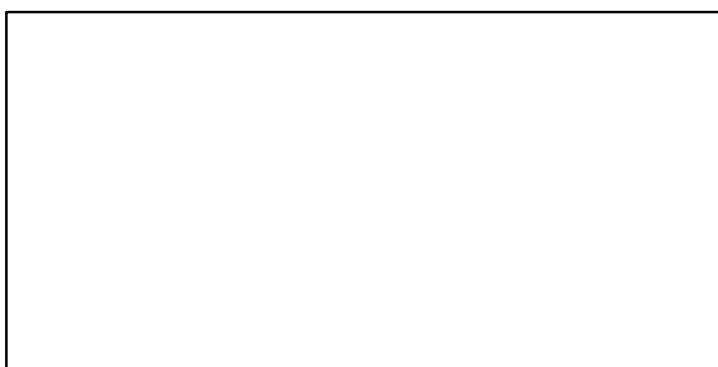


SSB–index (1999–2015–ICESIMP2018)

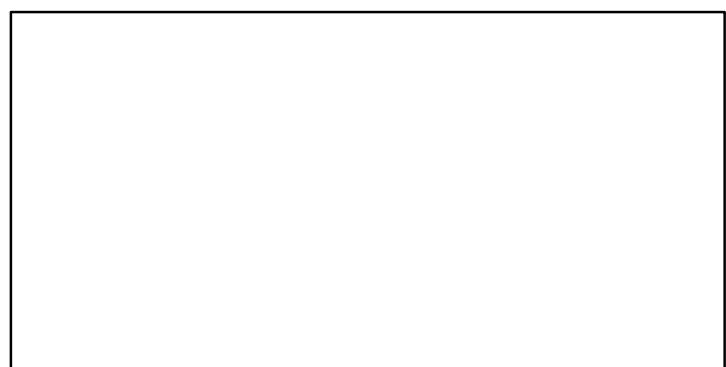


SSBm^{*}, SSBmgt^{*}, SSBLim^{*}

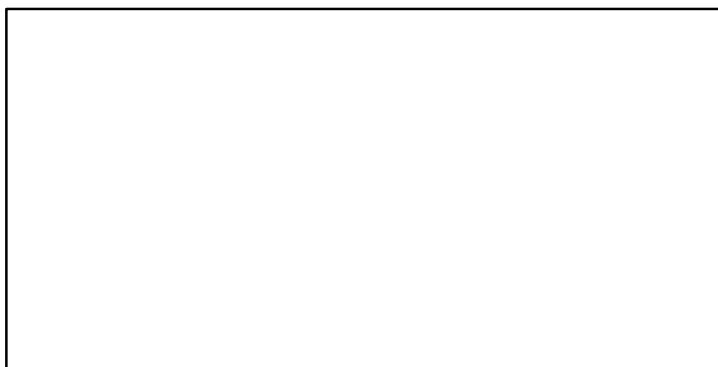
TN *



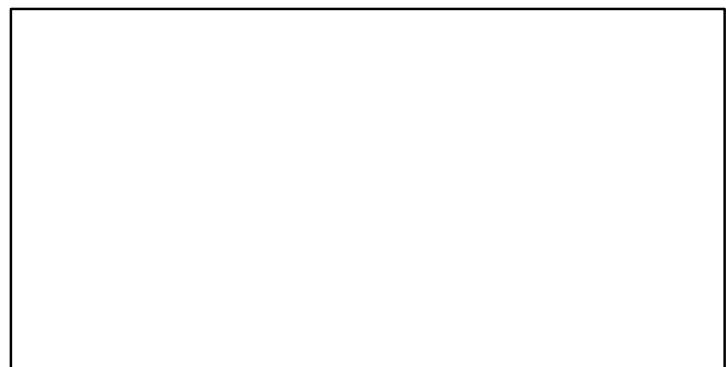
F*



ER*



Recruits*

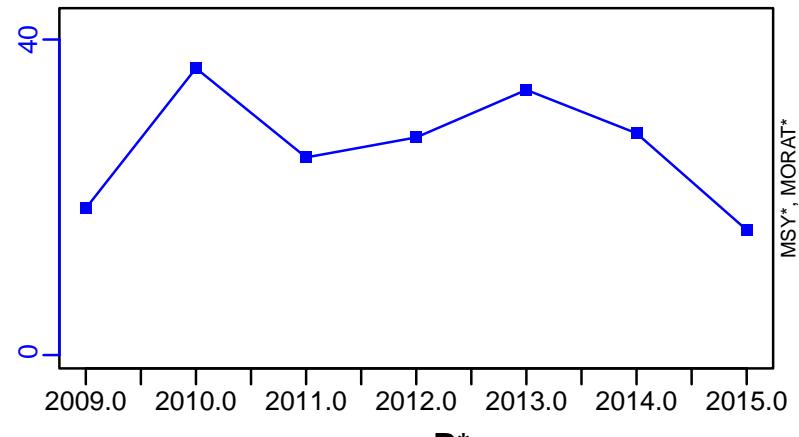


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Cuckoo ray Bay of Biscay –South [CKRAYVIIIC]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

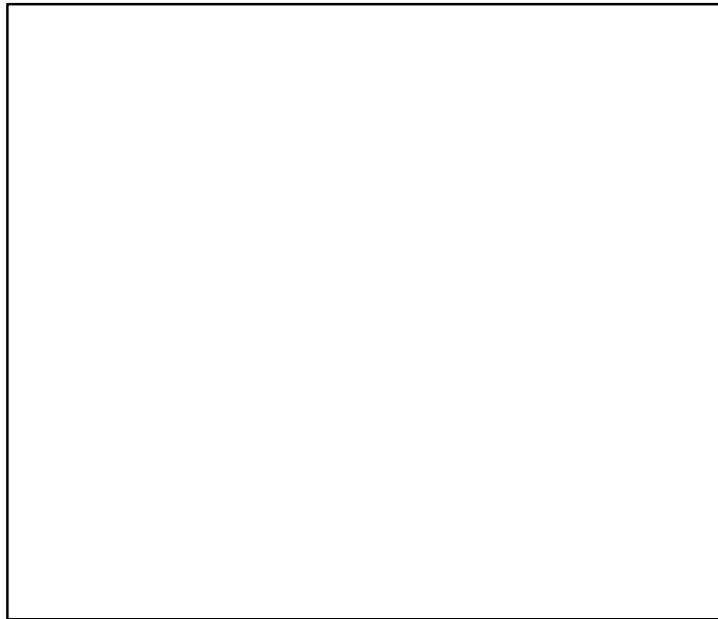
Cuckoo ray ICES 6-7 [CKRAYVI-VII]

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

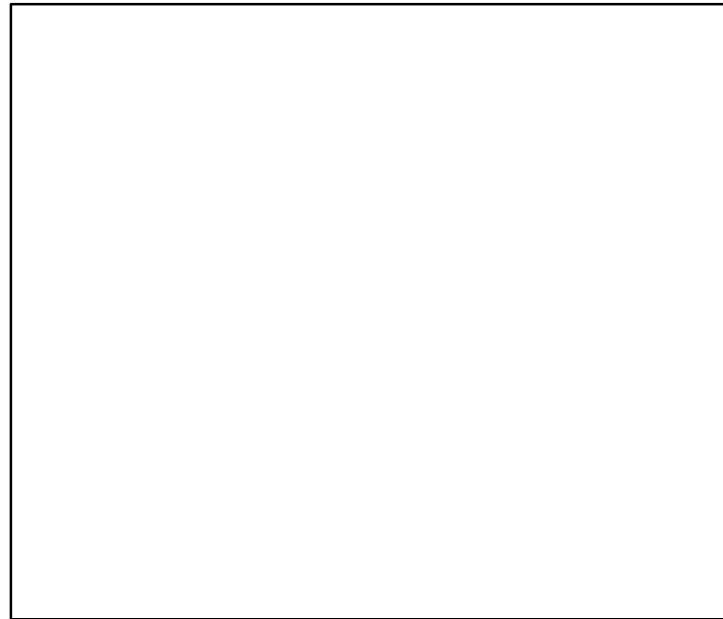
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

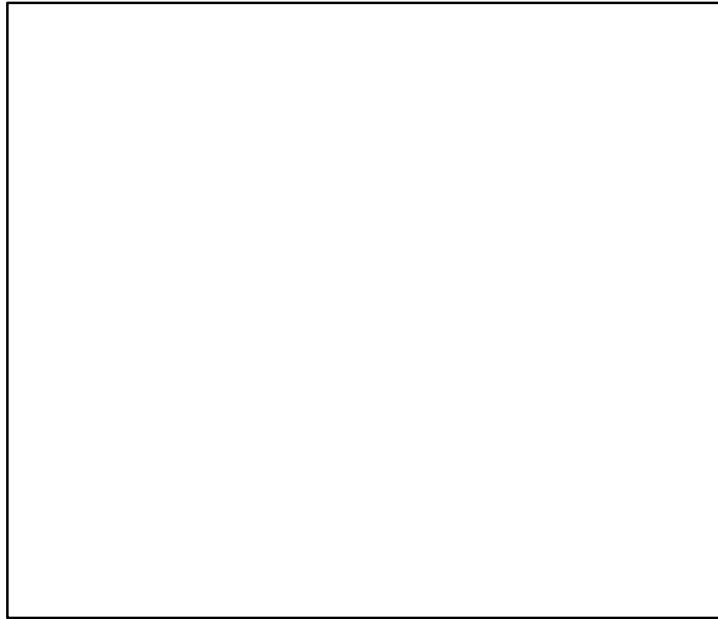
Kobe MSY*



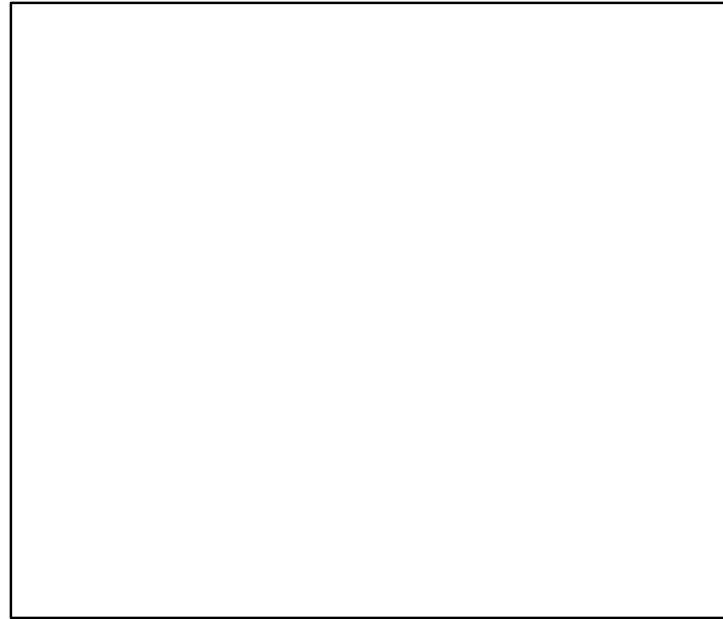
Kobe MGT*



Spawner Recruit*



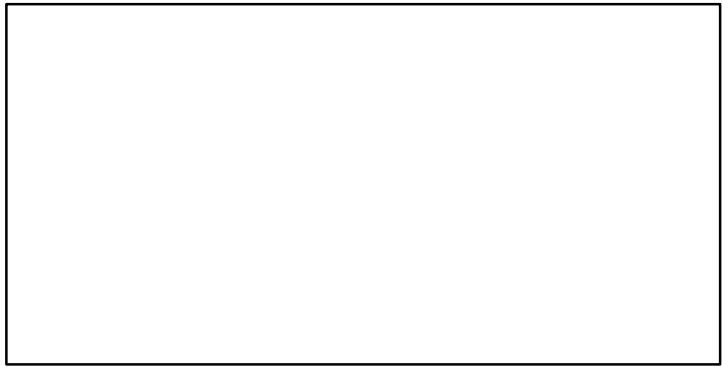
Production*



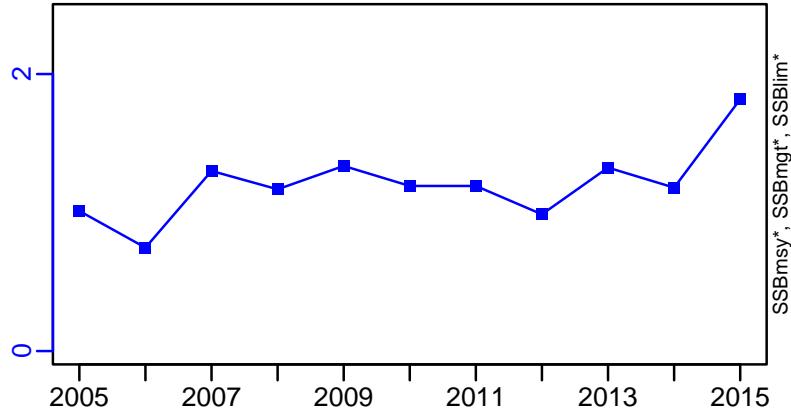
◆ Start Year ♦ End Year * No Data

Cuckoo ray ICES 6–7 [CKRAYVI–VII]

TB*

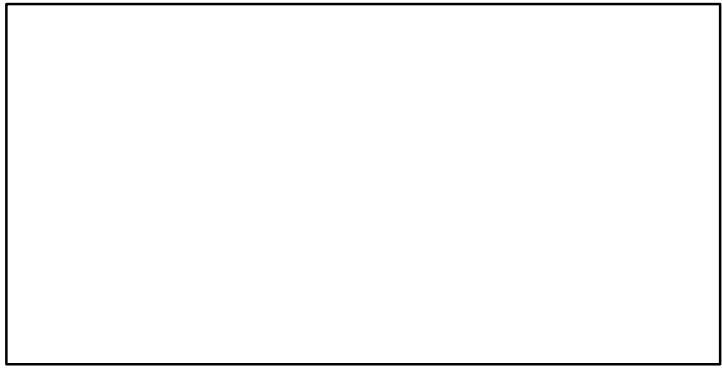


SSB–index (2005–2015–ICESIMP2018)

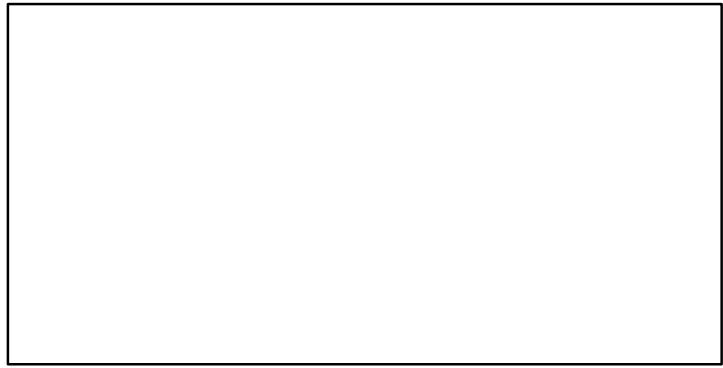


SSB_msy*, SSB_{mgt}*, SSB_{lim}*

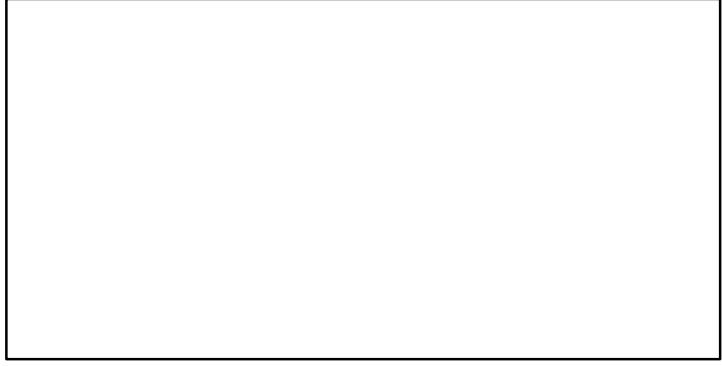
TN *



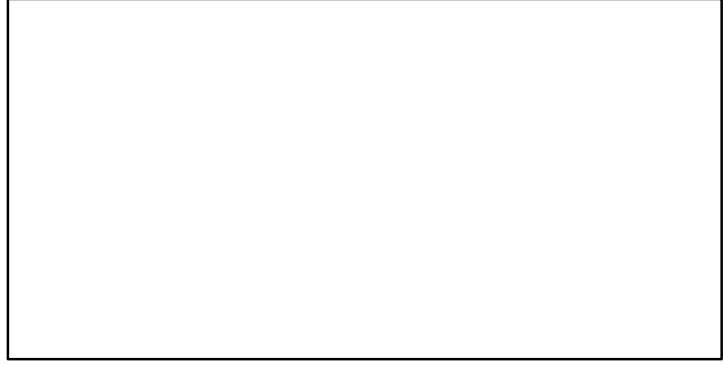
F*



ER*



Recruits*

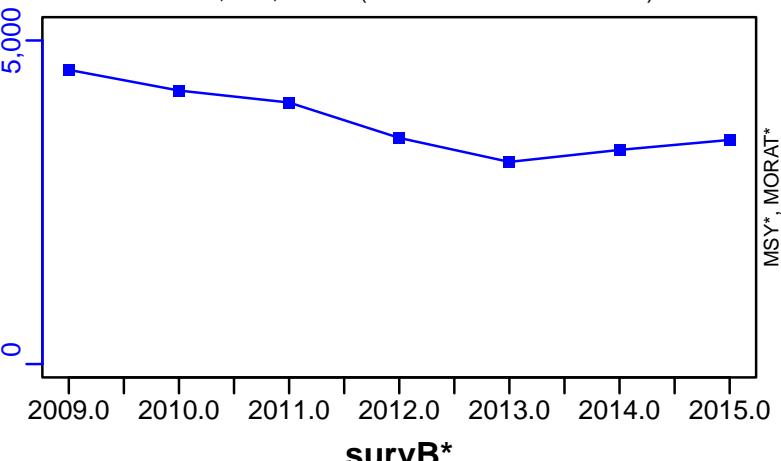


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Cuckoo ray ICES 6–7 [CKRAYVI–VII]

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

TAC*, Cpair*, Cadv*



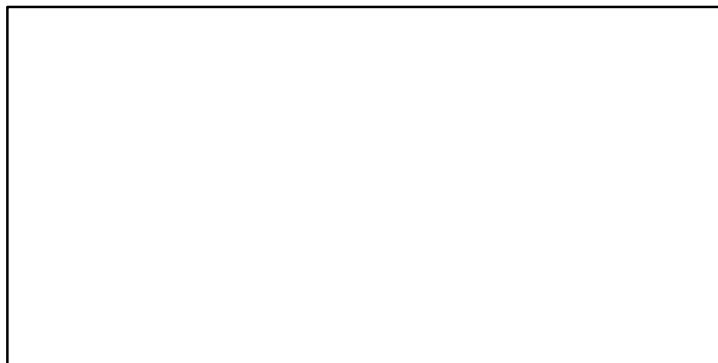
survB*



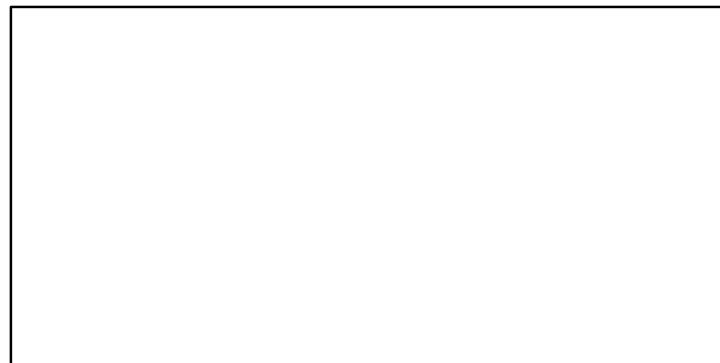
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod Western Baltic [CODBA2224]

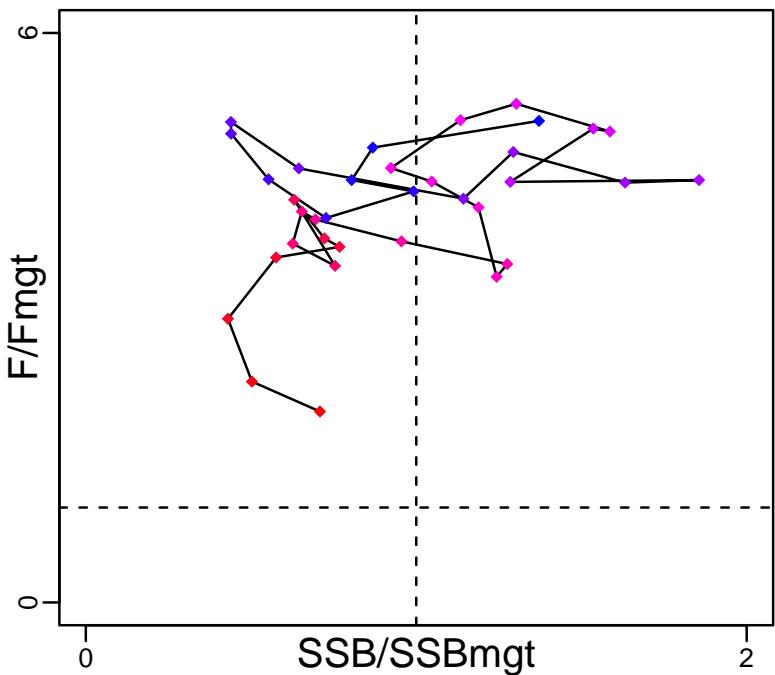
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2224-1985-2021-ICESIMP2021-2
Area	Western Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2013, 2014, 2019, 2020, 2021, 2015, 2016,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

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

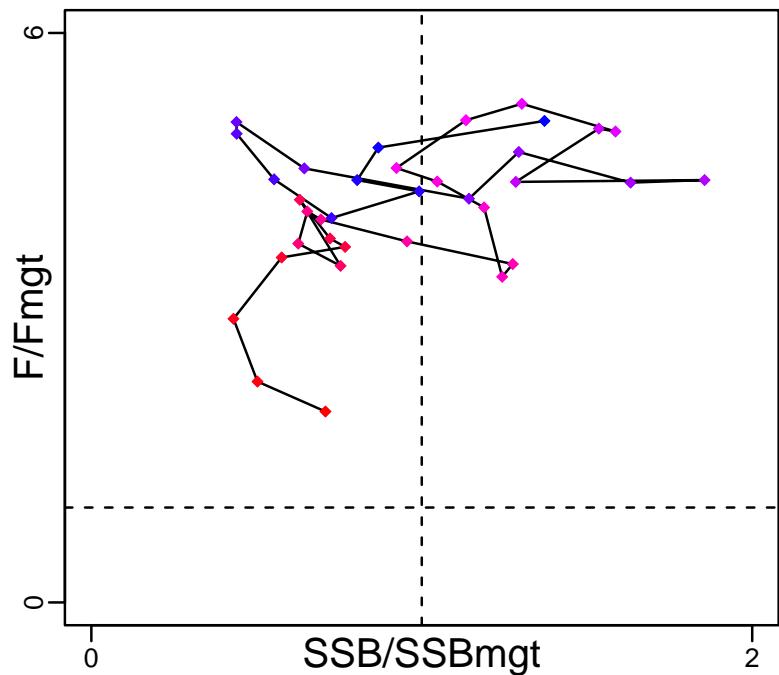
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	22,710	-	-
SSB	SSB-MT	2021	7800	-	-
TN	-	-	-	-	-
R	R-E00	2021	17,400,000	-	1
F	F-1/yr	2021	0.882	-	-
ER	ER-calc-ratio	2019	0.29	-	-
TC	TC-MT	2019	5312		
TL	TL-MT	2021	2900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Atlantic cod Western Baltic [CODBA2224]

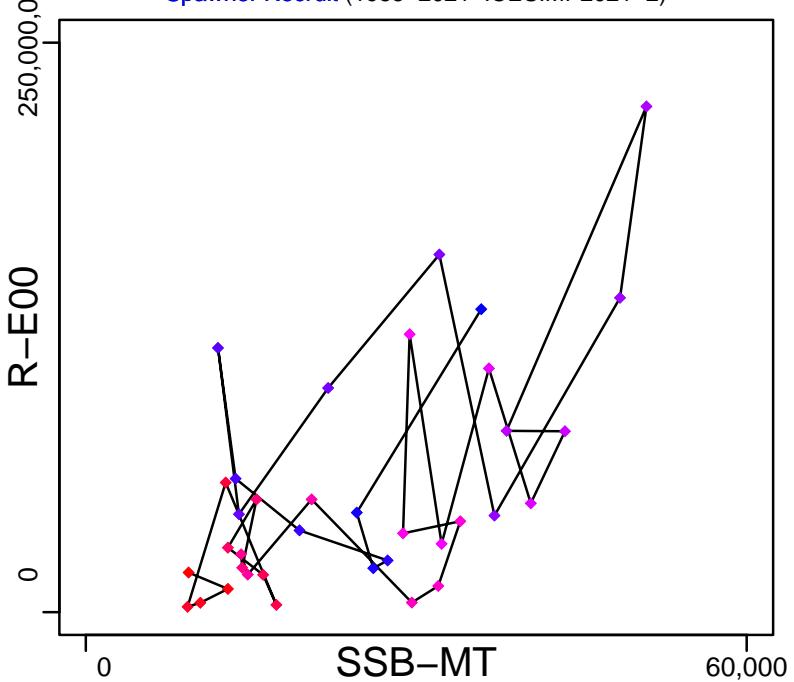
Kobe MSYpref (1985–2020–ICESIMP2021–2)



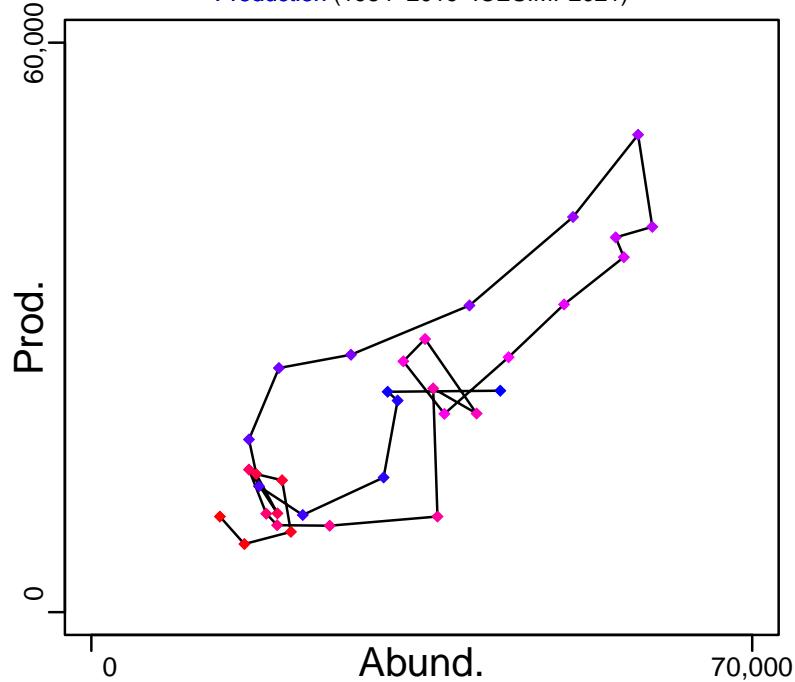
Kobe MGTpref (1985–2020–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



Production (1984–2019–ICESIMP2021)

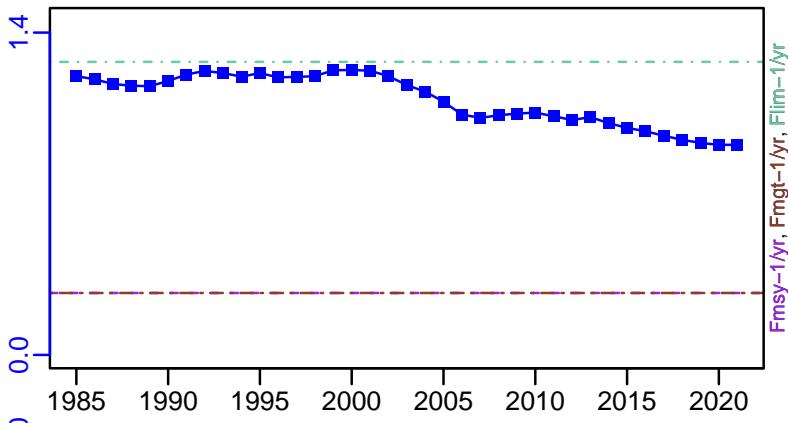
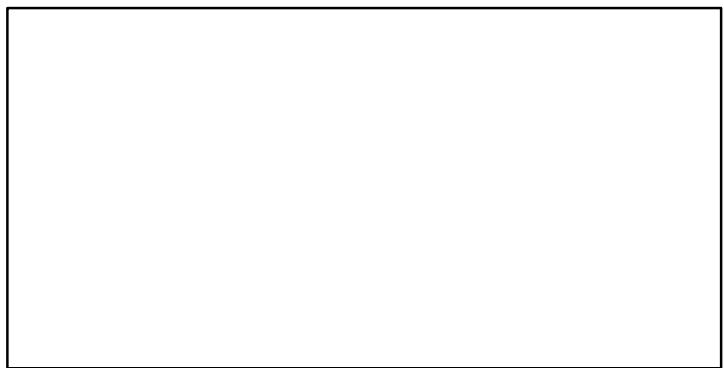
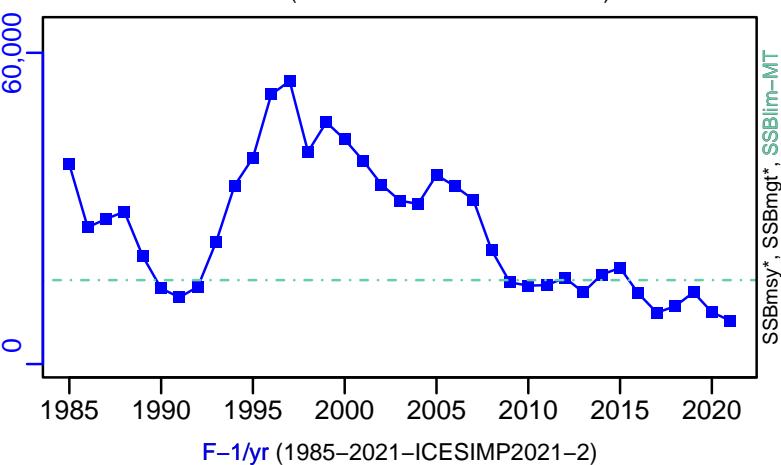
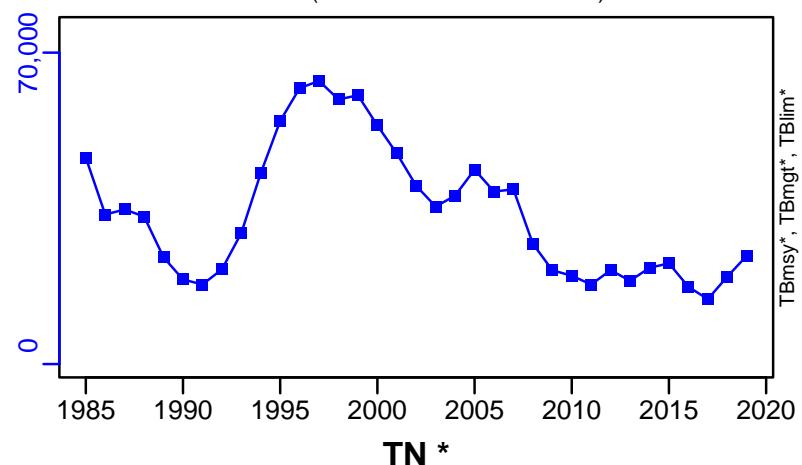


◆ Start Year ◆ End Year * No Data

Atlantic cod Western Baltic [CODBA2224]

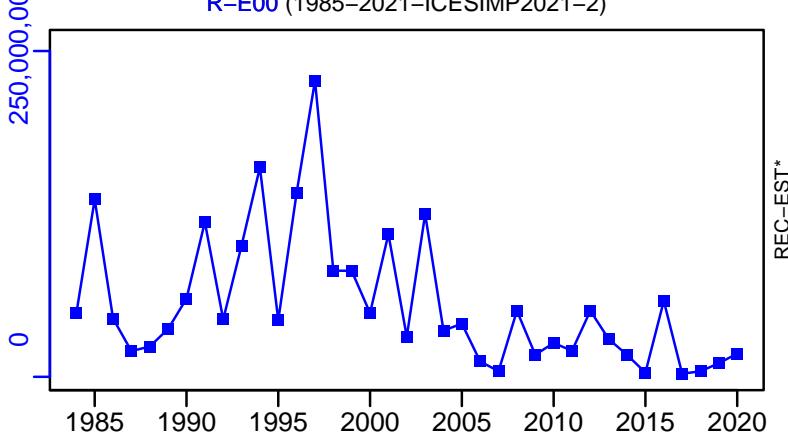
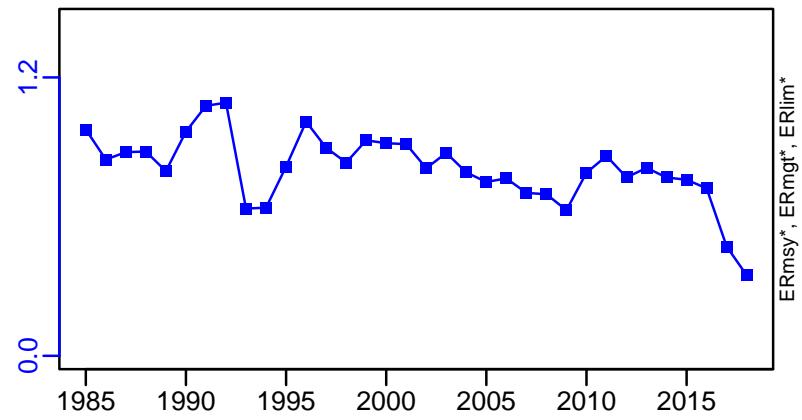
TB-MT (1984–2019–ICESIMP2021)

SSB-MT (1985–2021–ICESIMP2021–2)



ER-calc-ratio (1984–2019–ICESIMP2021)

R-E00 (1985–2021–ICESIMP2021–2)

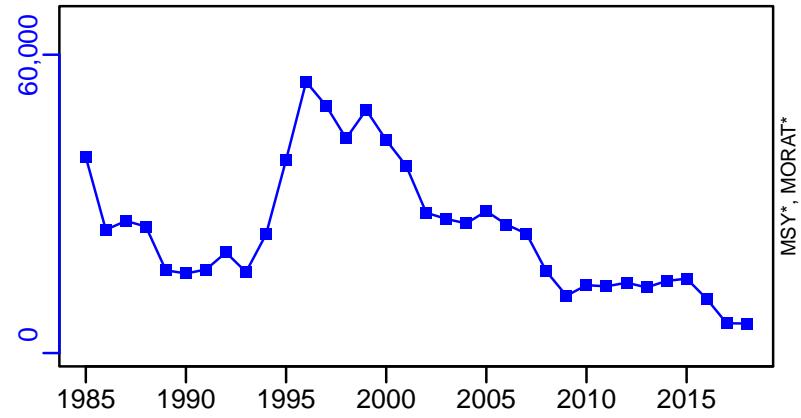


■ Listed time series	— Target BRP	— Rec-Est
- MSY-based BRP	--- Lim BRP	* No Data

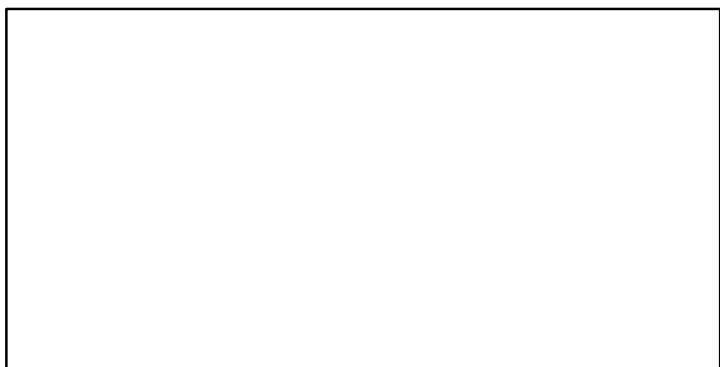
Atlantic cod Western Baltic [CODBA2224]

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

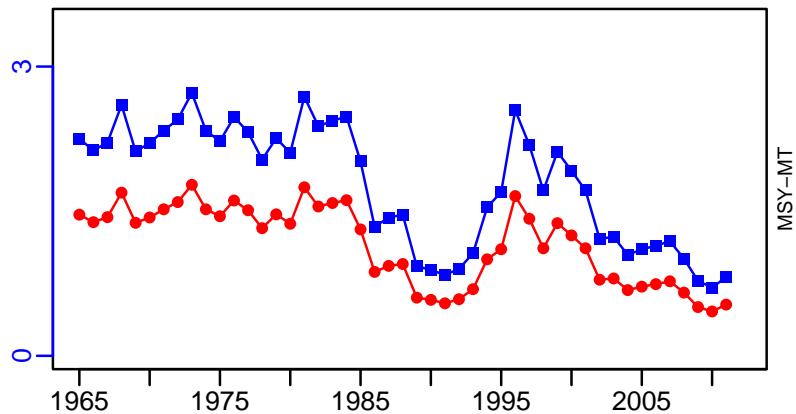
TAC*, Cpair*, Cadv*



EFFORT*



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



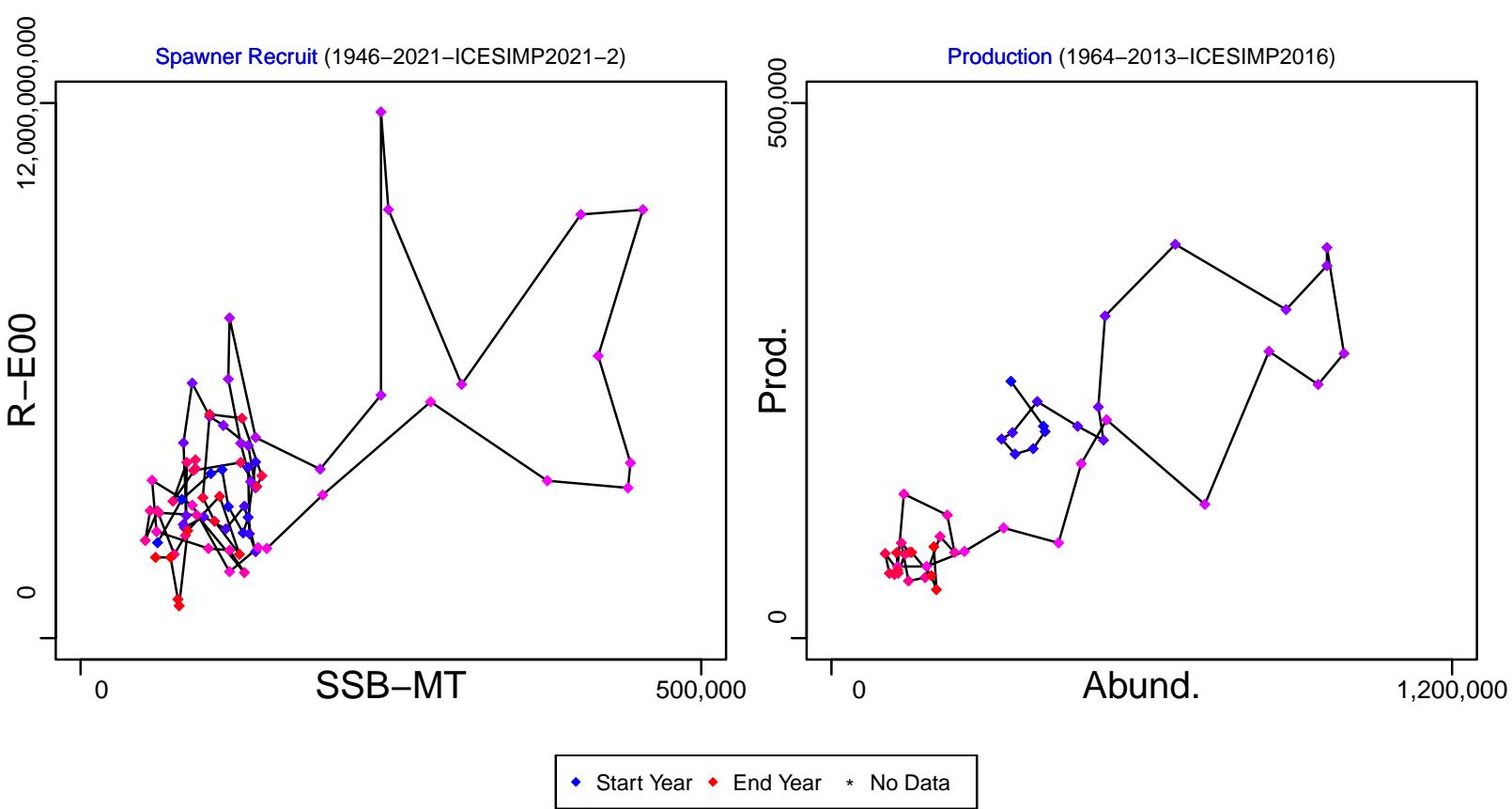
■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Atlantic cod Eastern Baltic [CDBA2532]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CDBA2532-1946-2021-ICESIMP2021-2
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2019, 2020, 2021, 2013, 2016, 2016, 2017, 2012

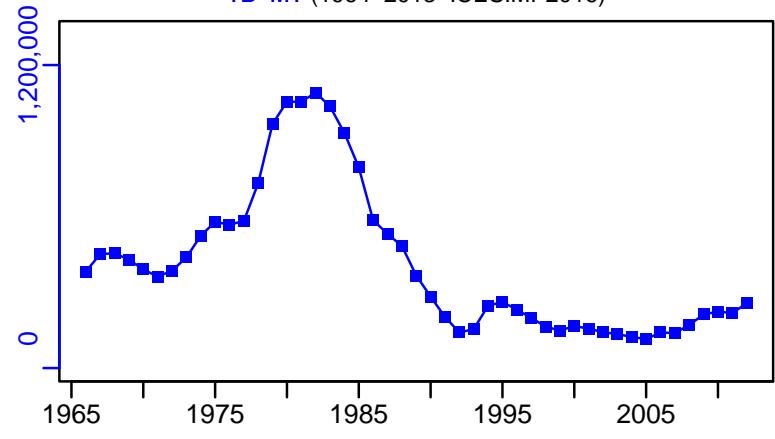
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	116,000
Fmgt	Fmgt-1/yr	2013	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	104,000
Flim	-	-	-
ERlim	-	-	-

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

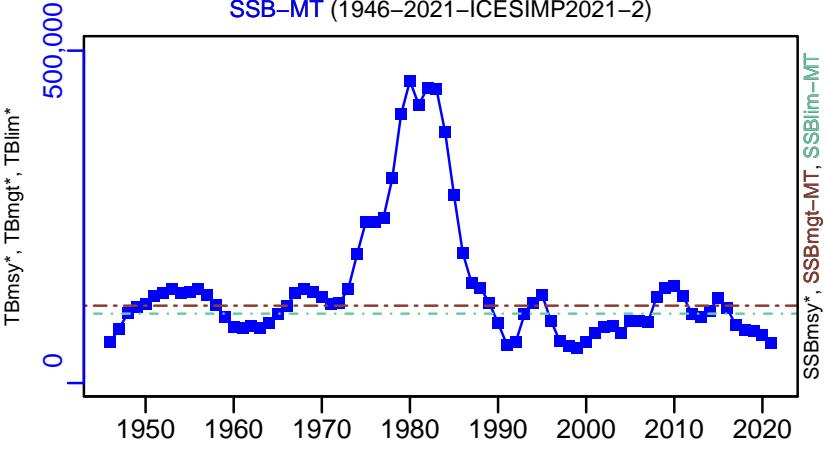
Kobe MSY***Kobe MGT***

Atlantic cod Eastern Baltic [CODBA2532]

TB-MT (1964–2013–ICESIMP2016)



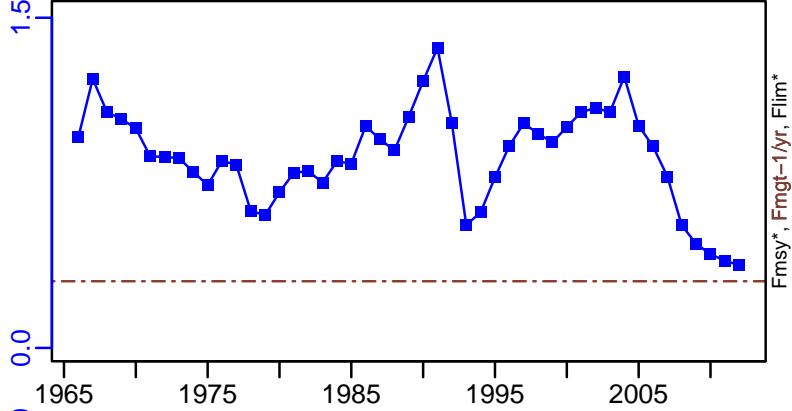
SSB-MT (1946–2021–ICESIMP2021–2)



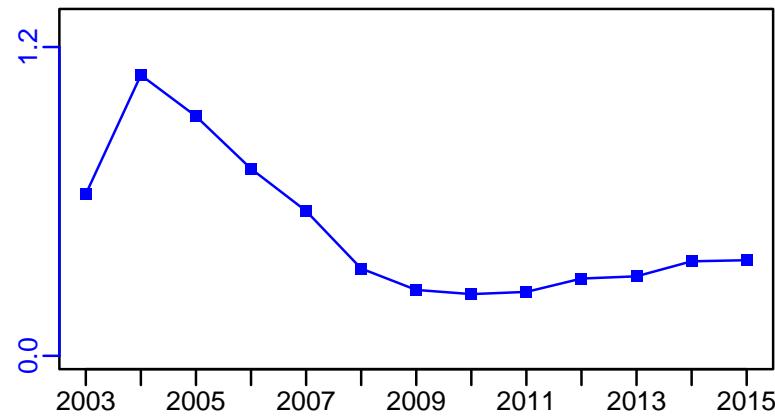
TN *



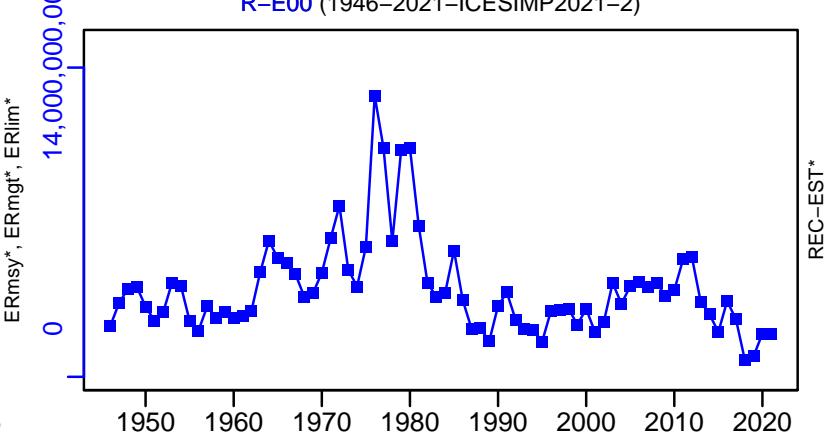
F-1/yr (1964–2013–ICESIMP2016)



ER-ratio (1965–2016–ICESIMP2016)



R-E00 (1946–2021–ICESIMP2021–2)

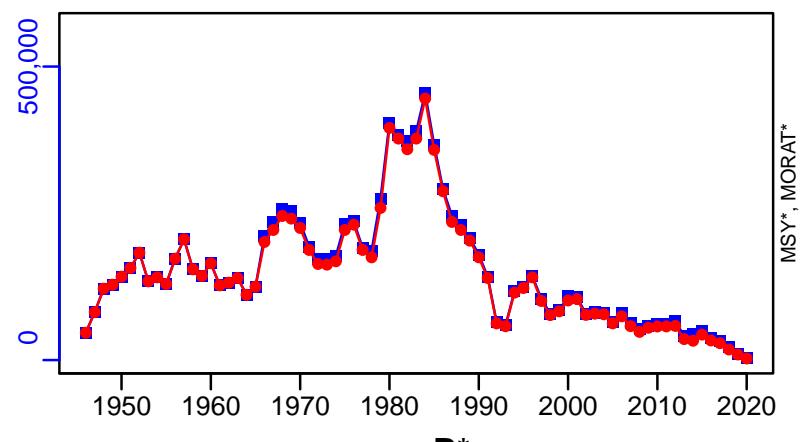


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - MSY-based BRP | - Lim BRP | * No Data |

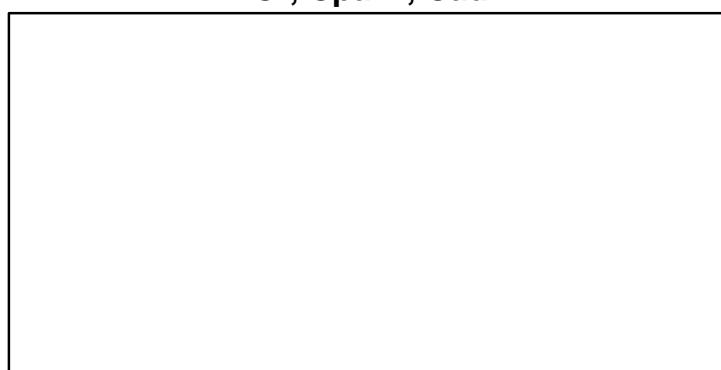
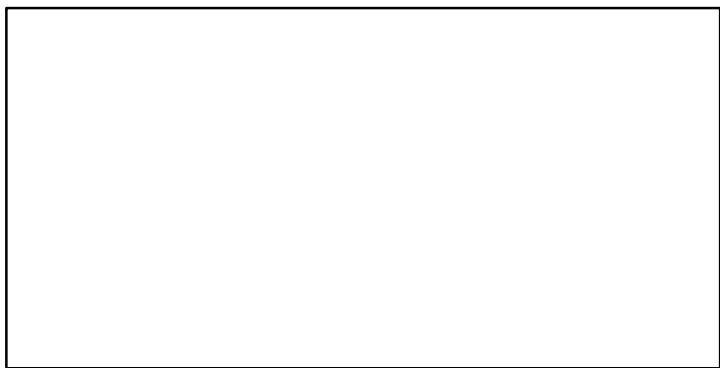
Atlantic cod Eastern Baltic [CDBA2532]

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

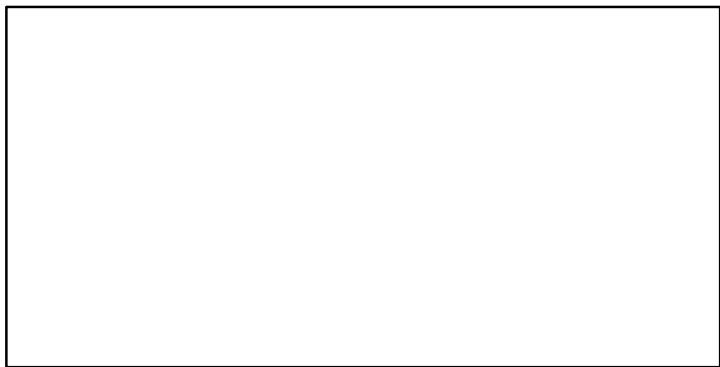
TAC*, Cpair*, Cadv*



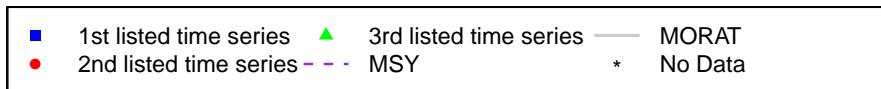
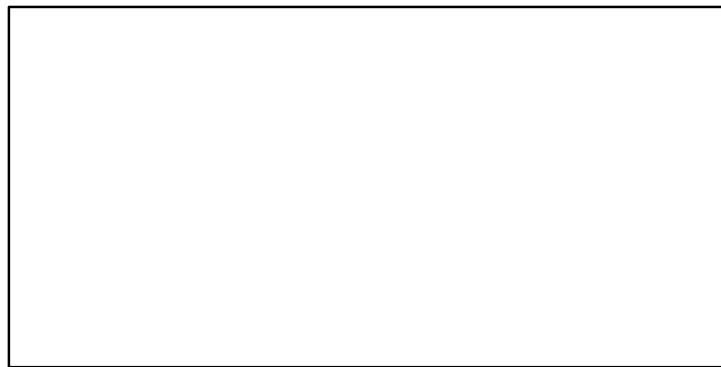
CPUE*



EFFORT*



CdivMSY*



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

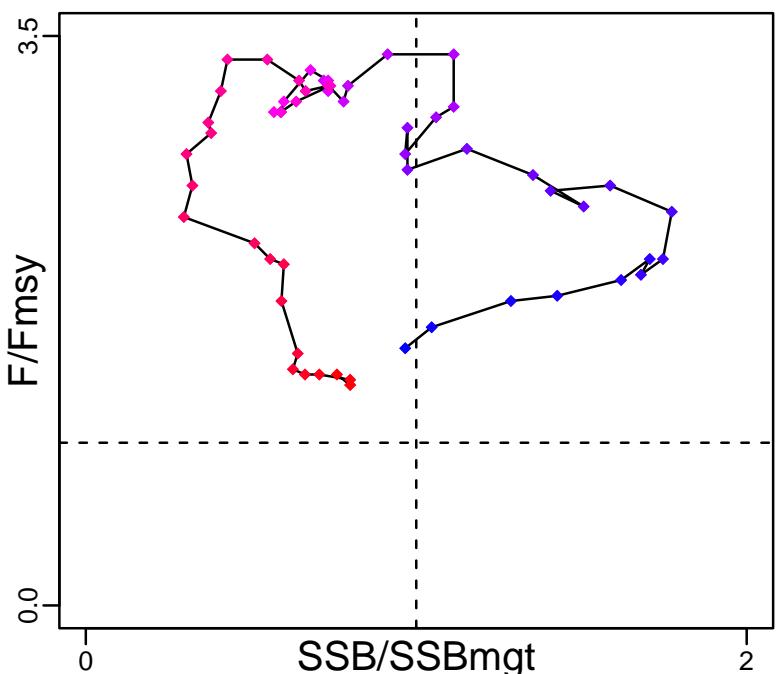
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGNSSK-CODIIIaW-IV-VIId-1962-2022-ICESIMP2024
Area	ICES 3a(west)-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in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

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

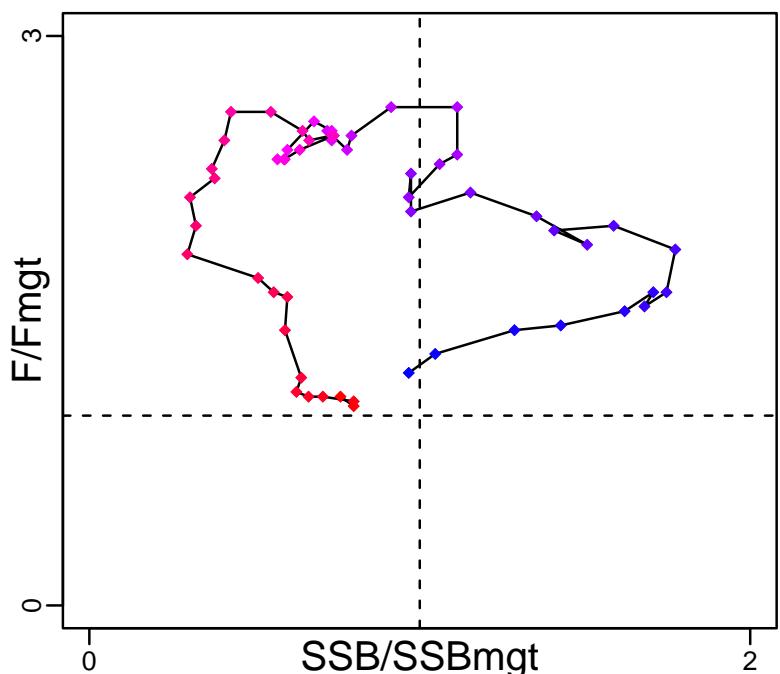
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2022	120,590	-	-	
SSB	SSB-MT	2022	54,148	-	-	
TN	-	-	-	-	-	
R	R-E00	2022	222,820	-	1	
F	F-1/yr	2022	0.247	-	2 to 4	
ER	ER-calc-ratio	2022	0.192	-	-	
TC	TC-MT	2022	18,403			
TL	TL-MT	2022	14,660			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

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

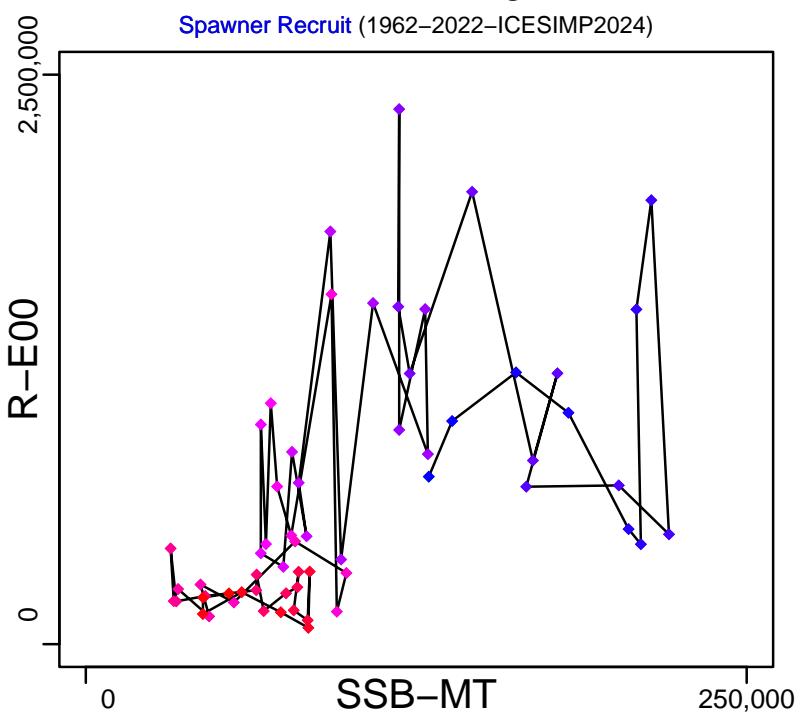
Kobe MSYpref (1962–2018–ICESIMP2018)



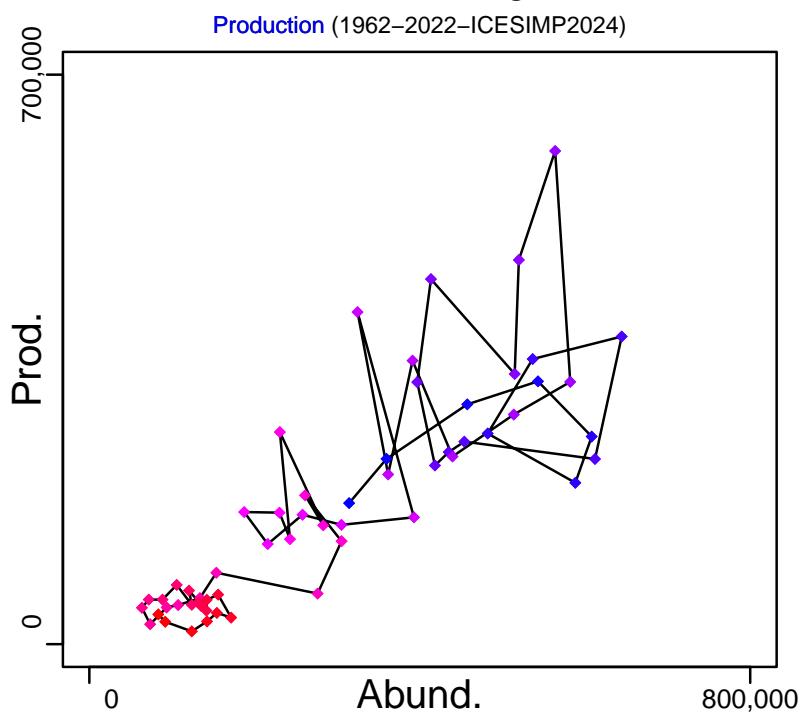
Kobe MGTpref (1962–2018–ICESIMP2018)



Spawner Recruit (1962–2022–ICESIMP2024)



Production (1962–2022–ICESIMP2024)

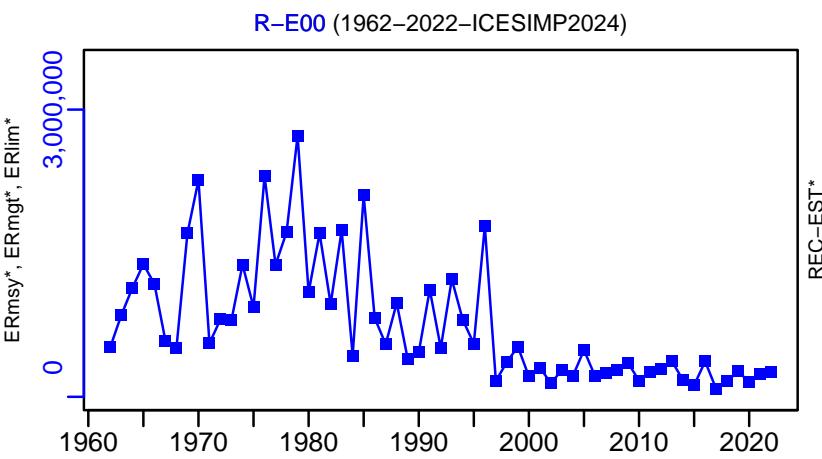
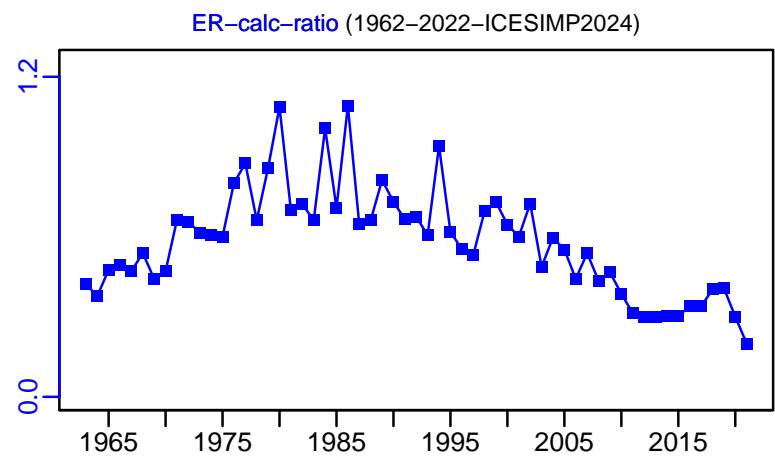
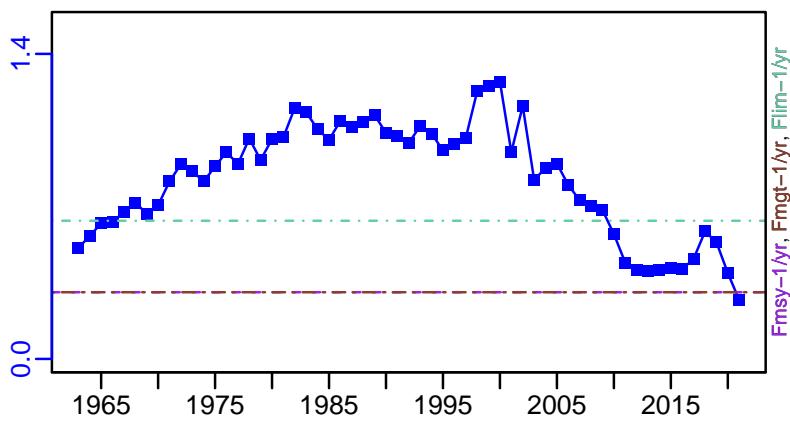
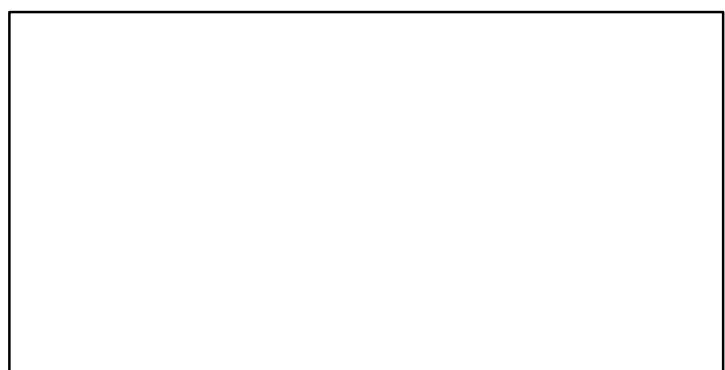
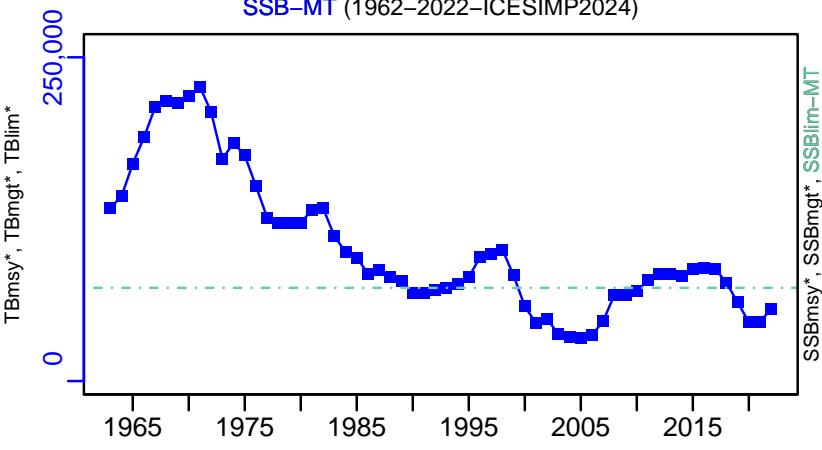
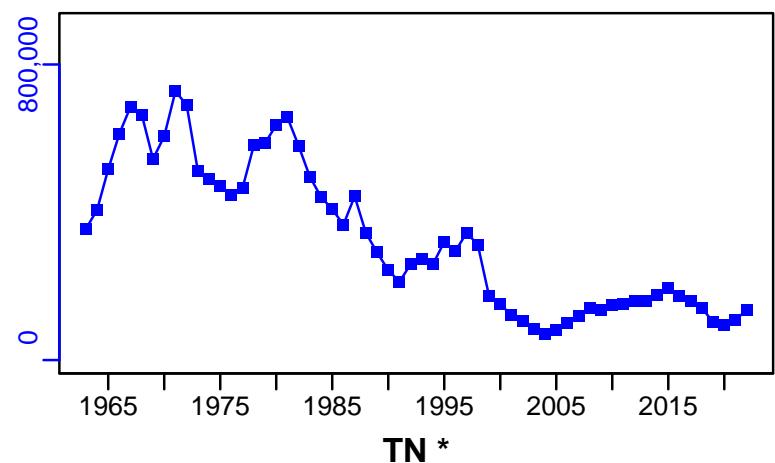


◆ Start Year ◆ End Year * No Data

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

TB-MT (1962–2022–ICESIMP2024)

SSB-MT (1962–2022–ICESIMP2024)

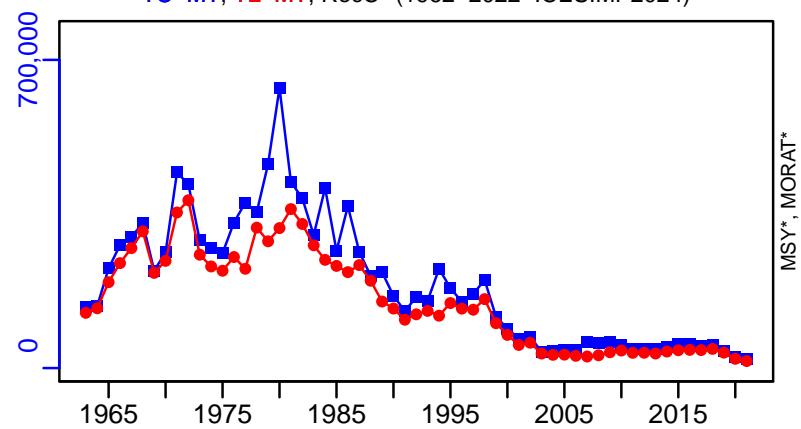


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

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

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

TAC*, Cpair*, Cadv*



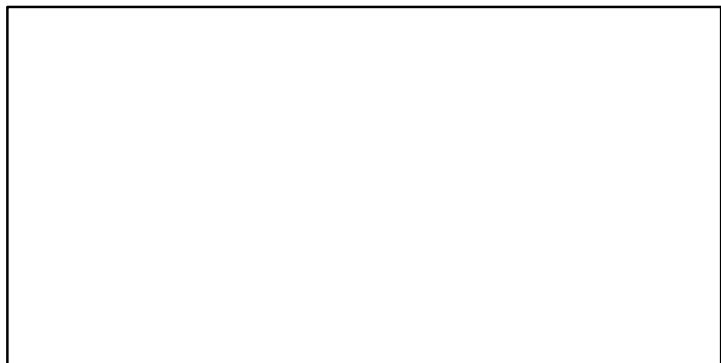
survB*



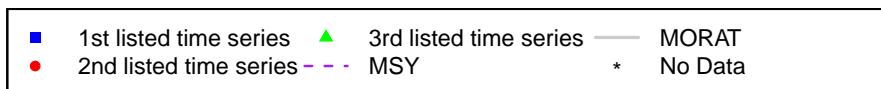
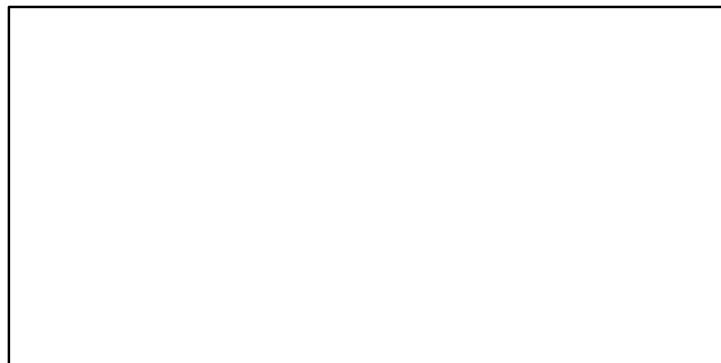
CPUE*



EFFORT*



CdivMSY*

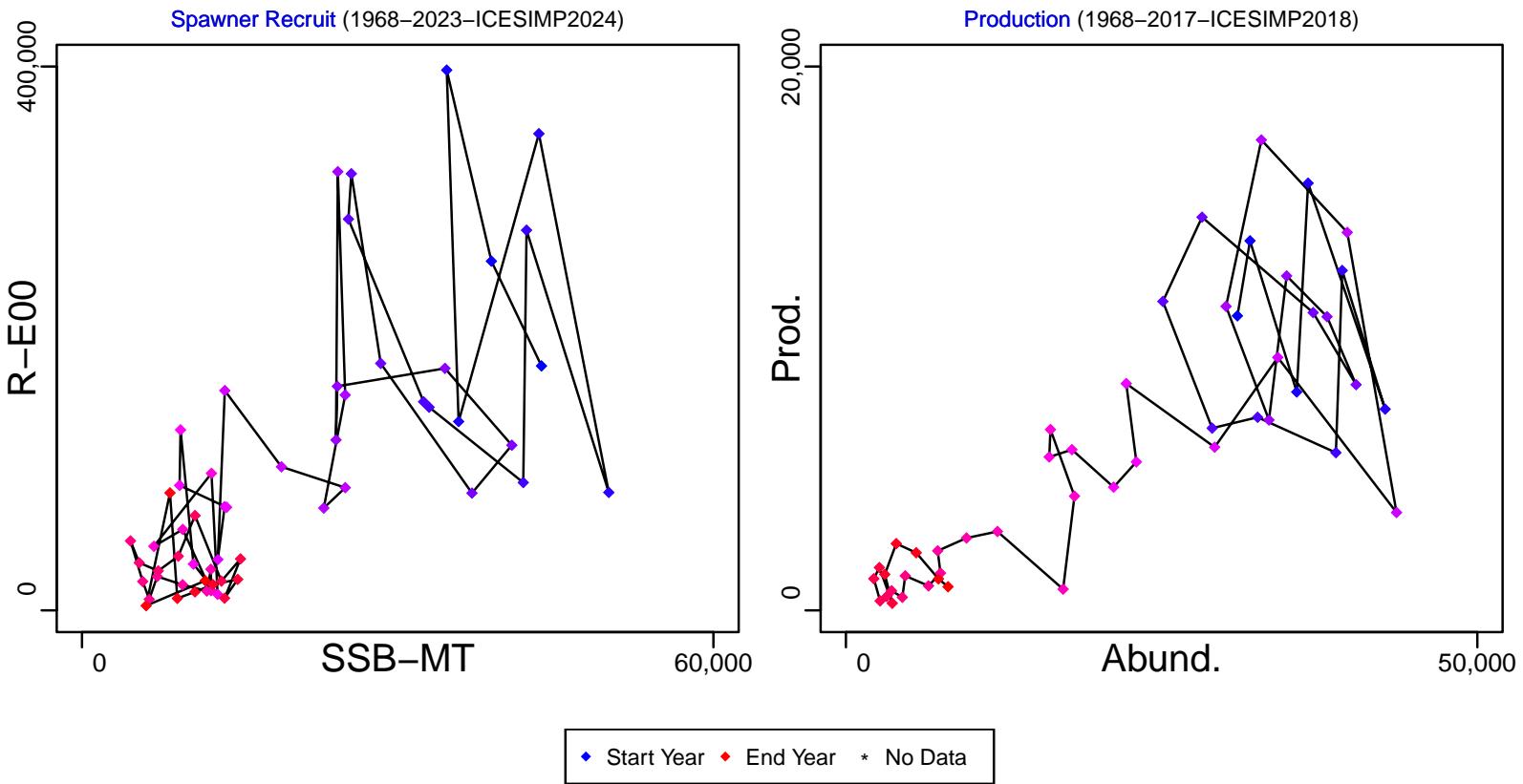


Atlantic cod Irish Sea [CODIS]

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

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

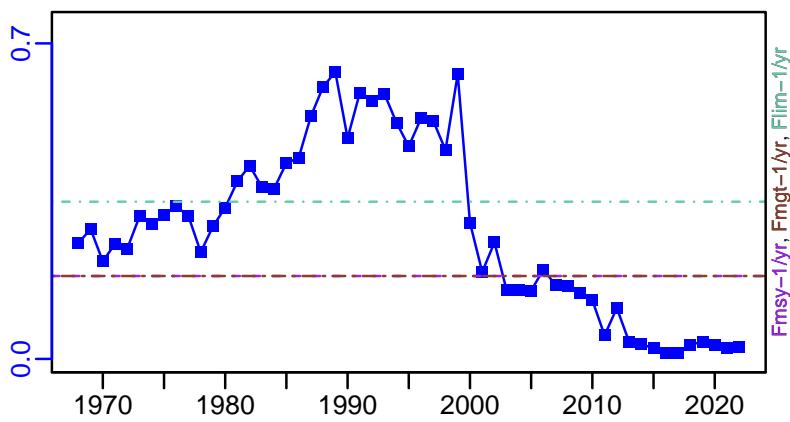
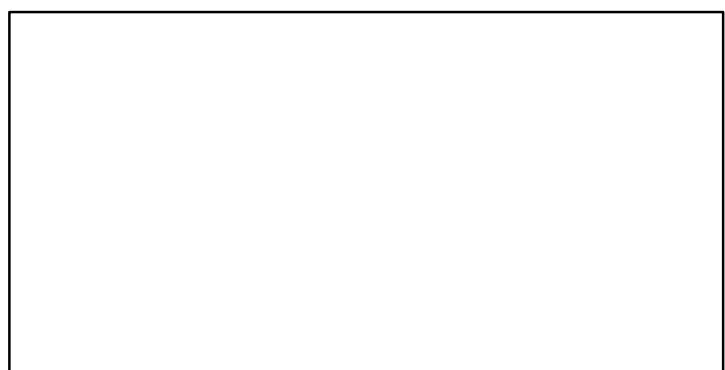
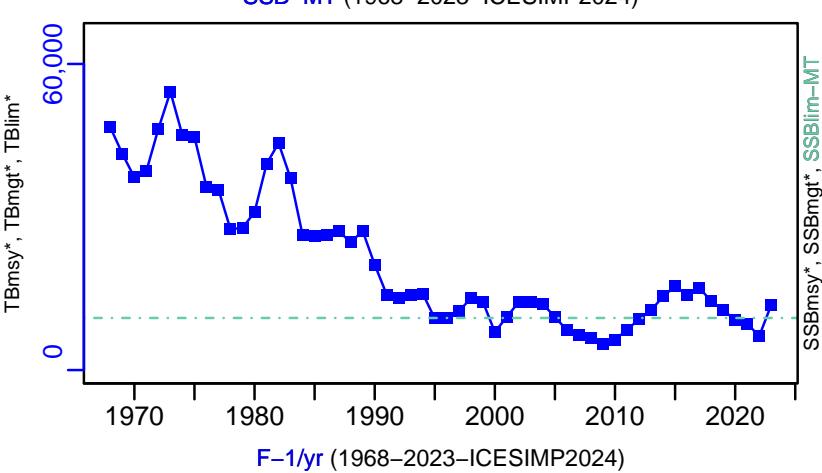
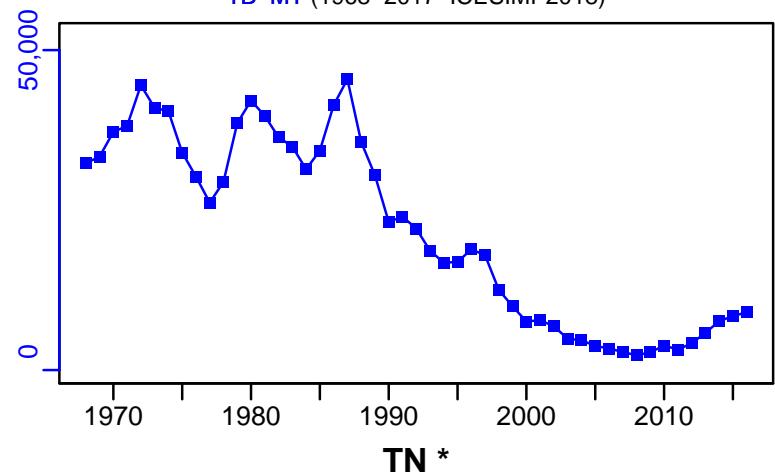
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	8650	Both	-
SSB	SSB-MT	2023	11,714	-	-
TN	-	-	-	-	-
R	R-E00	2023	21,811	-	0
F	F-1/yr	2023	0.024	-	2 to 4
ER	ER-calc-ratio	2017	0.016	-	-
TC	TC-MT	2023	125		
TL	TL-MT	2023	98		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Kobe MSY***Kobe MGT***

Atlantic cod Irish Sea [CODIS]

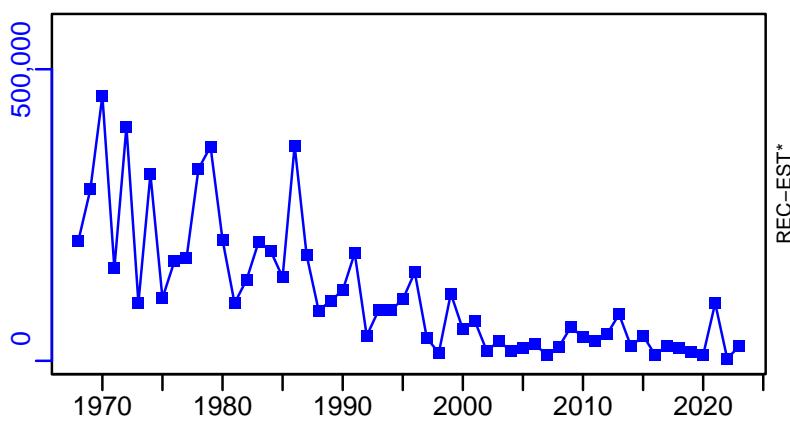
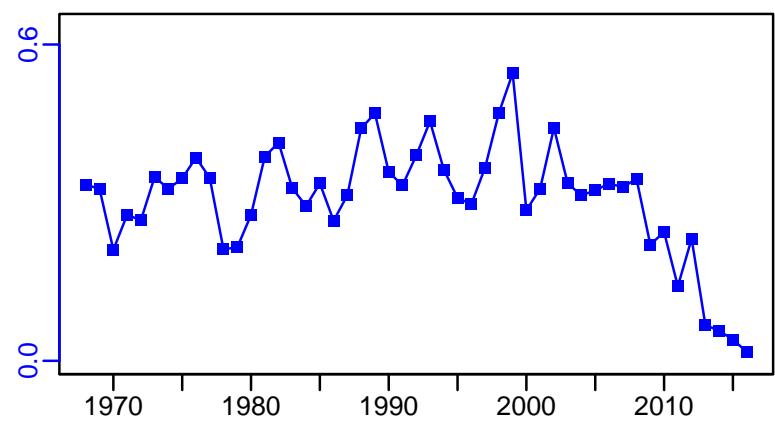
TB-MT (1968–2017–ICESIMP2018)

SSB-MT (1968–2023–ICESIMP2024)



ER-calc-ratio (1968–2017–ICESIMP2018)

R-E00 (1968–2023–ICESIMP2024)

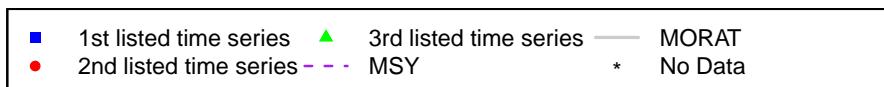
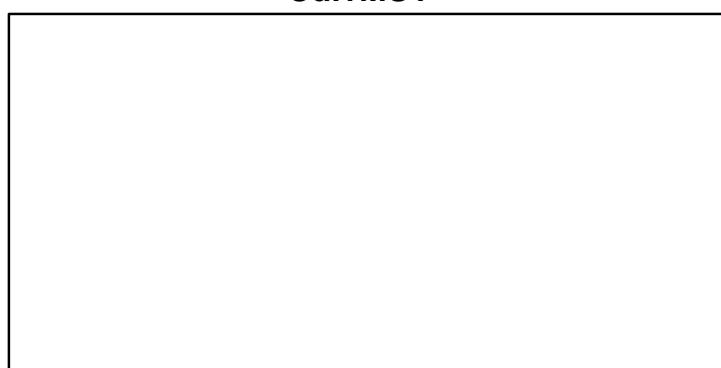
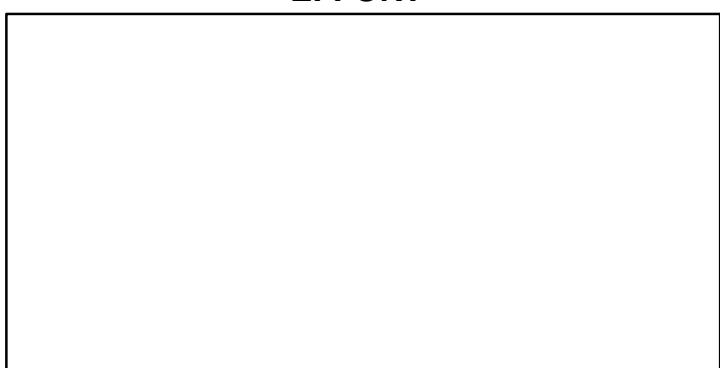
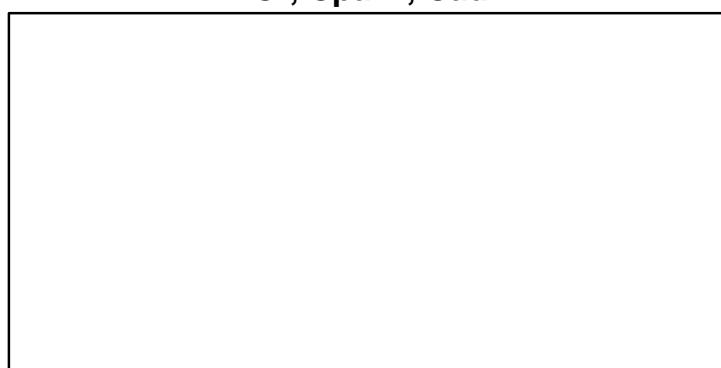
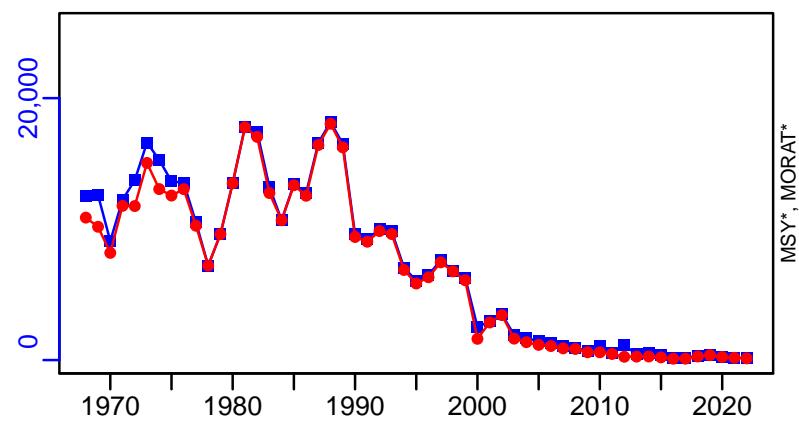


█ Listed time series	--- Target BRP	— Rec-Est
- MSY-based BRP	---- Lim BRP	* No Data

Atlantic cod Irish Sea [CODIS]

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

TAC*, Cpair*, Cadv*



Atlantic cod Kattegat [CODKAT]

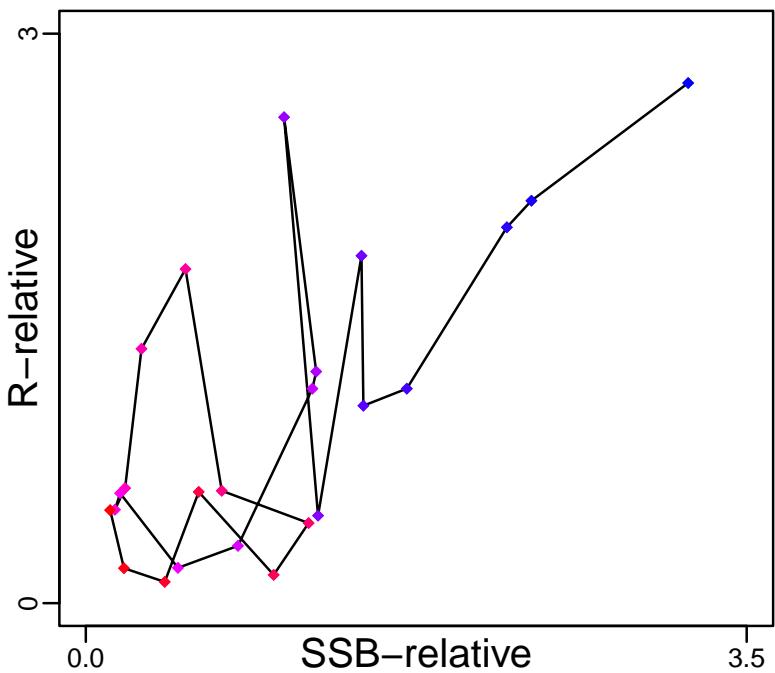
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODKAT-1997-2020-ICESIMP2021-2
Area	Kattegat
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2015, 2016, 2017, 2018, 2019, 2020

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

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

Kobe MSY***Kobe MGT***

Spawner Recruit (1997–2020–ICESIMP2021–2)

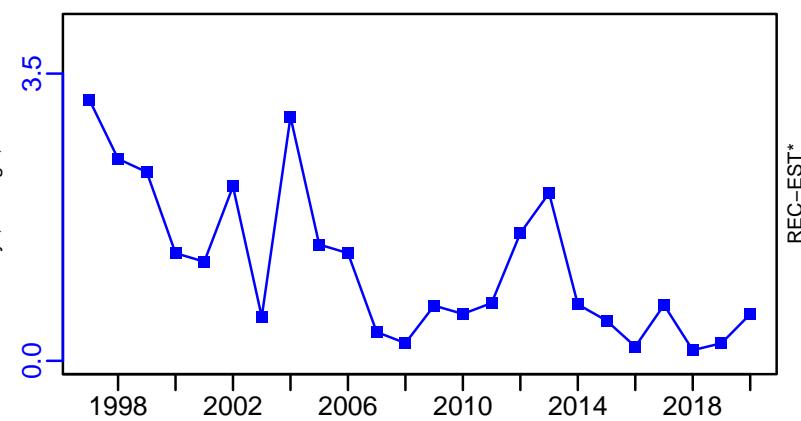
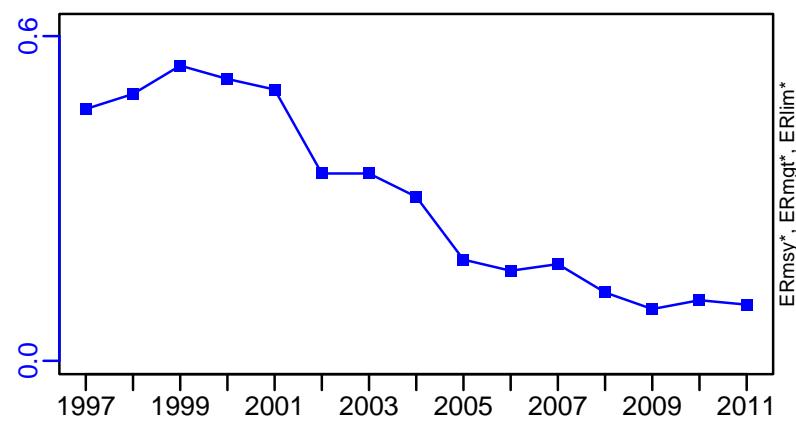
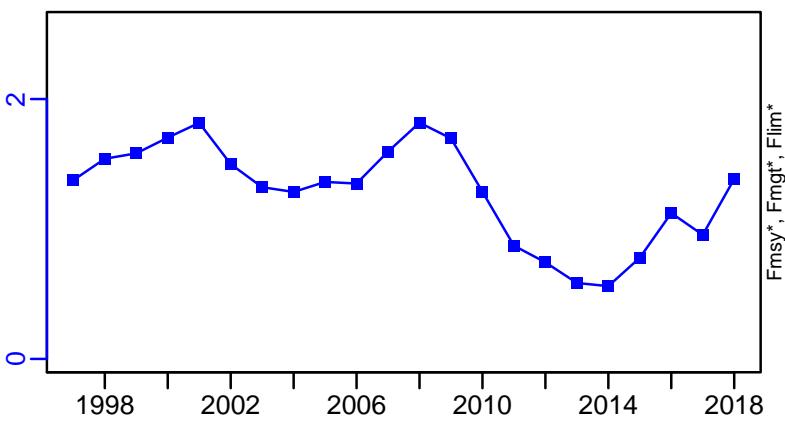
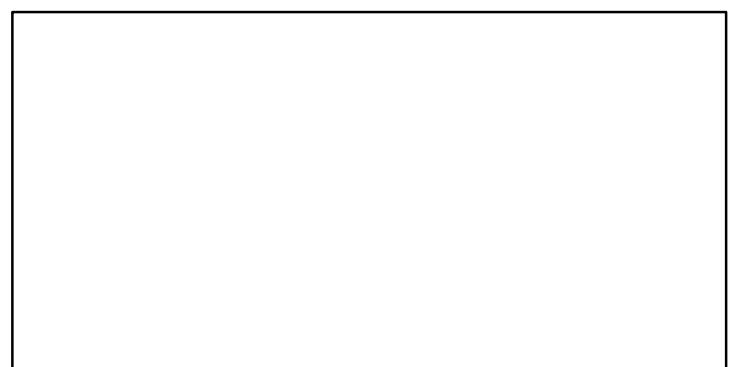
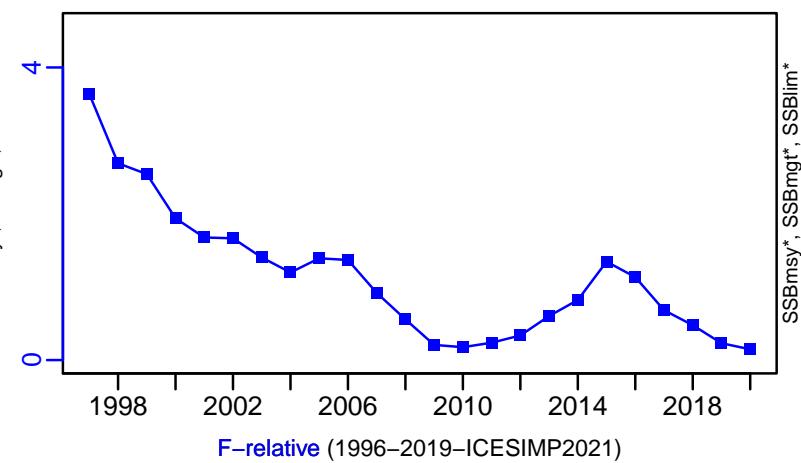
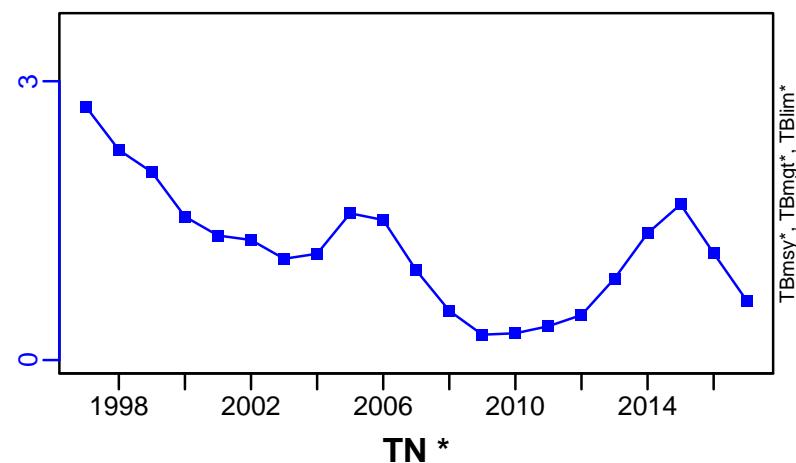
**Production***

◆ Start Year ◆ End Year * No Data

Atlantic cod Kattegat [CODKAT]

TB-relative (1996–2018–ICESIMP2018)

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

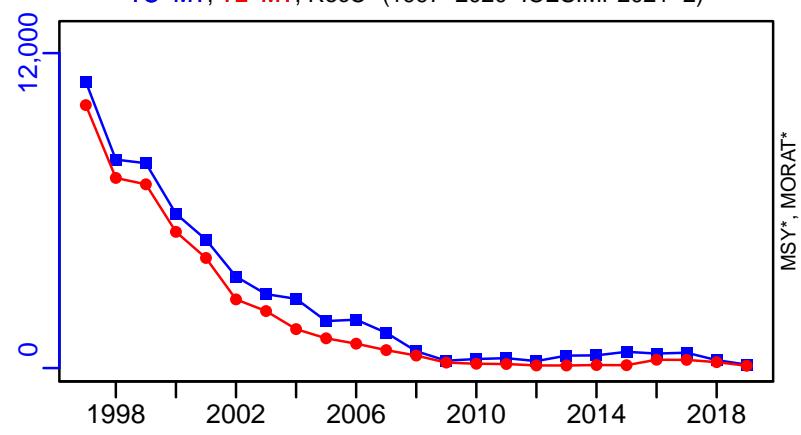


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	·· Lim BRP	* No Data

Atlantic cod Kattegat [CODKAT]

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

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

Atlantic cod West of Scotland [CODVla]

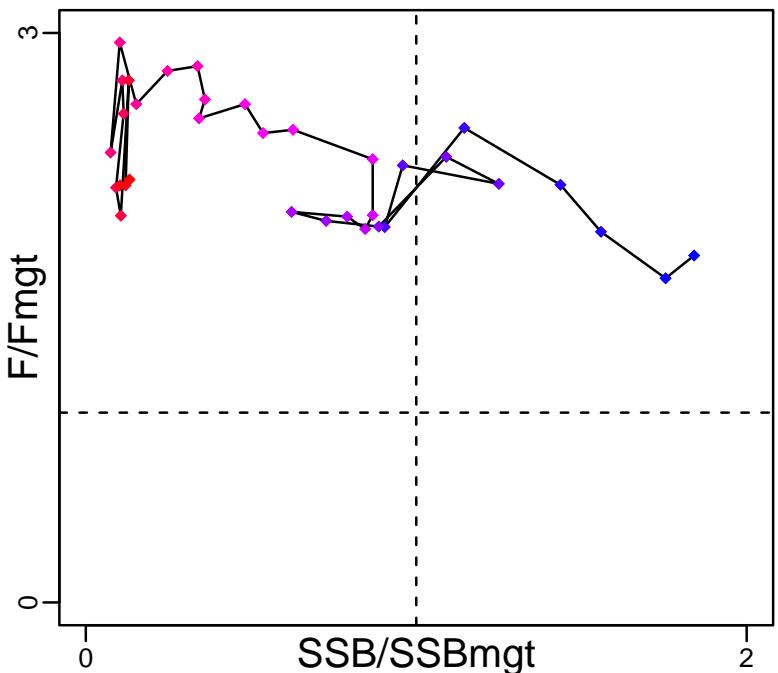
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVla-1980-2022-ICESIMP2024
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2017, 2019, 2022, 2012, 2016, 2020,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

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

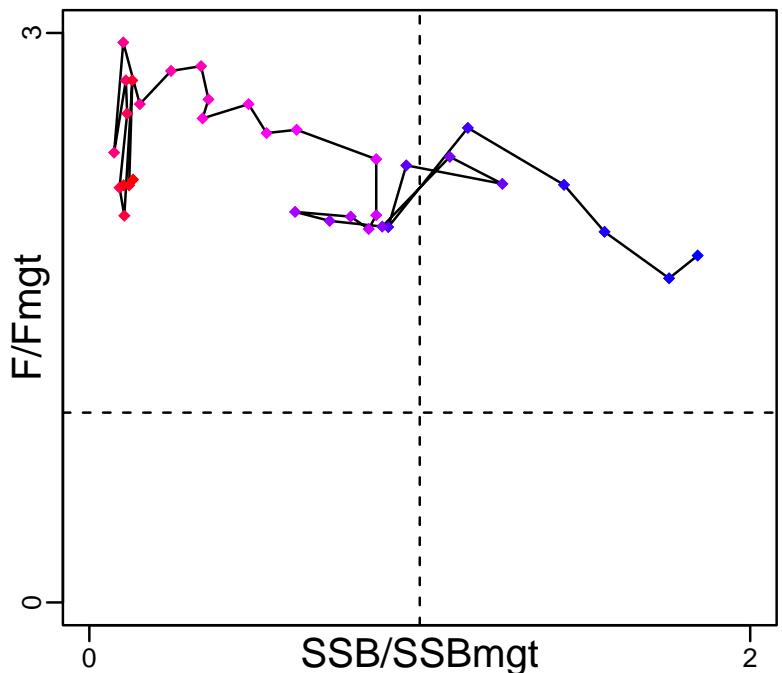
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2017	4250	Both	-	
SSB	SSB-MT	2022	3288	-	-	
TN	-	-	-	-	-	
R	R-E00	2022	2226	-	1	
F	F-1/yr	2022	0.747	-	2 to 5	
ER	ER-calc-ratio	2017	0.419	-	-	
TC	TC-MT	2020	2260			
TL	TL-MT	2022	1241			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr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

Atlantic cod West of Scotland [CODV1a]

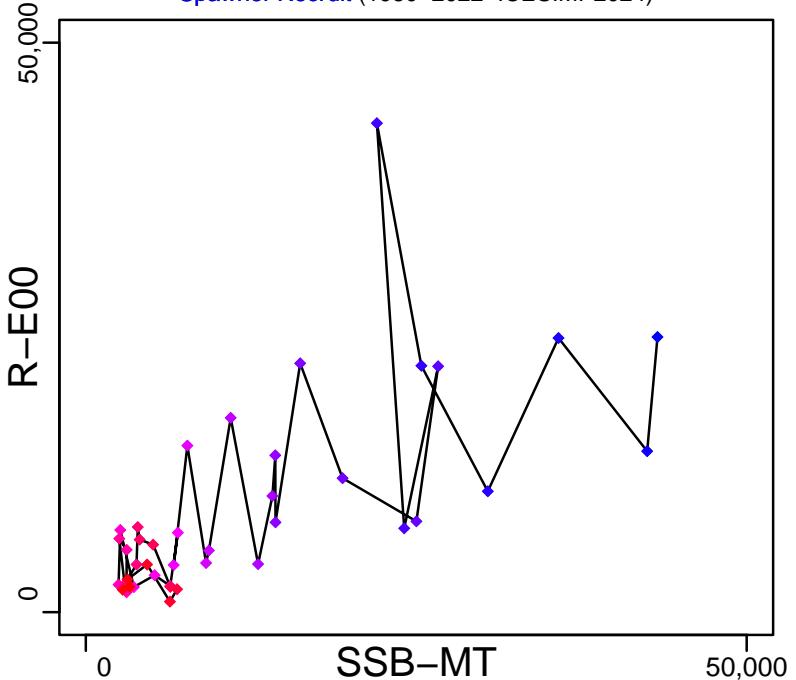
Kobe MSYpref (1980–2015–ICESIMP2016)



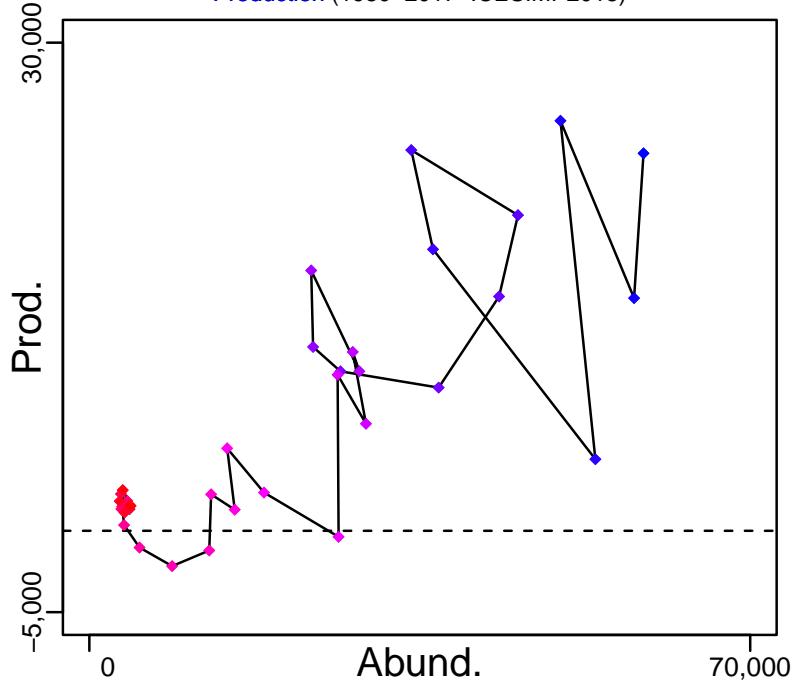
Kobe MGTpref (1980–2015–ICESIMP2016)



Spawner Recruit (1980–2022–ICESIMP2024)



Production (1980–2017–ICESIMP2018)

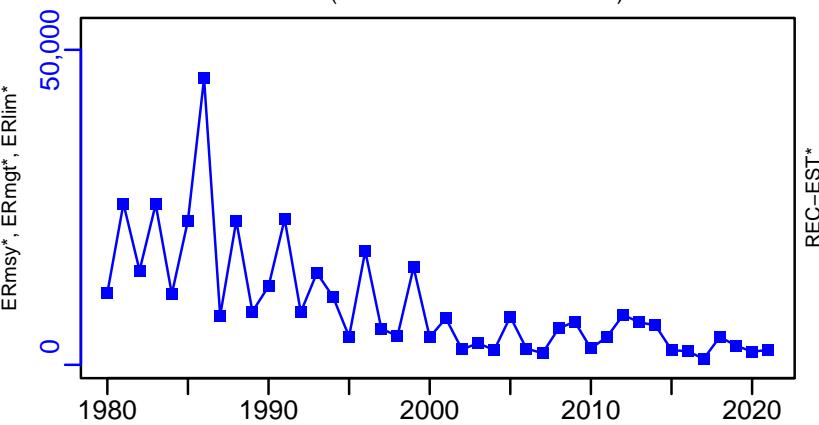
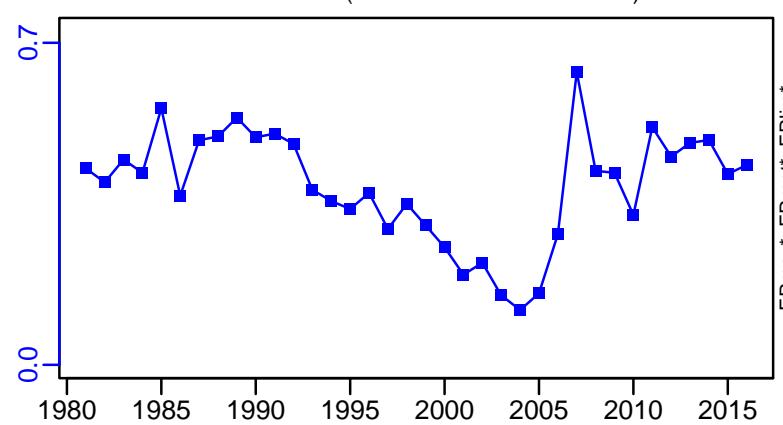
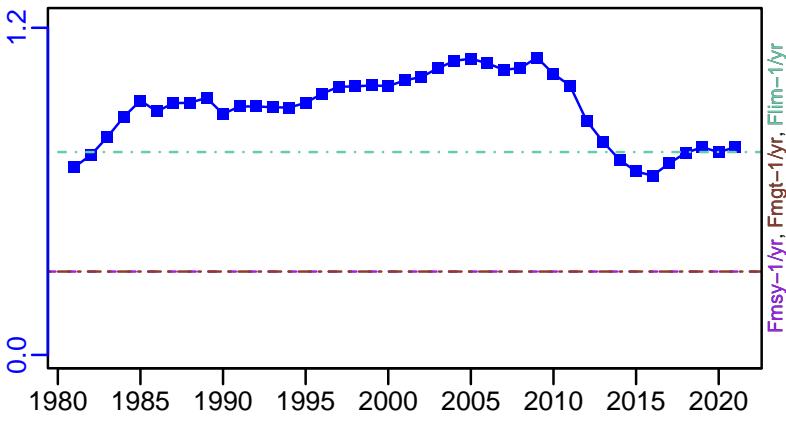
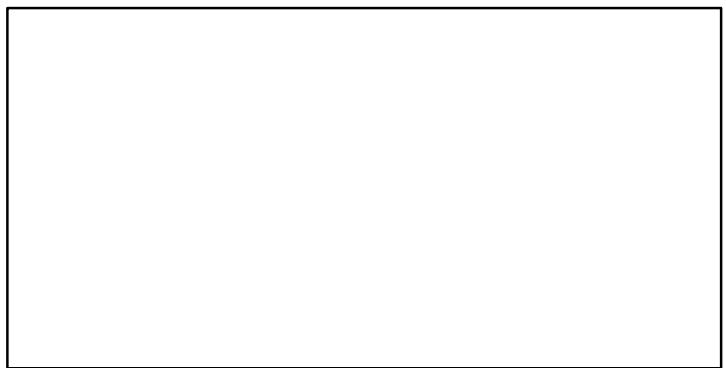
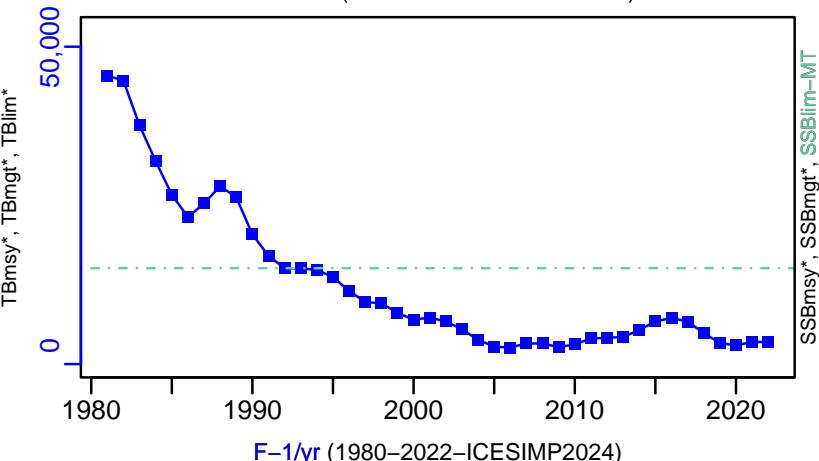
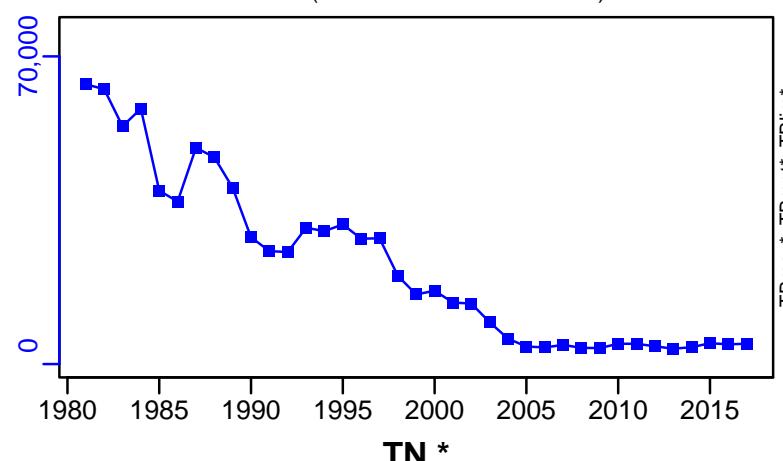


◆ Start Year ♦ End Year * No Data

Atlantic cod West of Scotland [CODVla]

TB-MT (1980–2017–ICESIMP2018)

SSB-MT (1980–2022–ICESIMP2024)

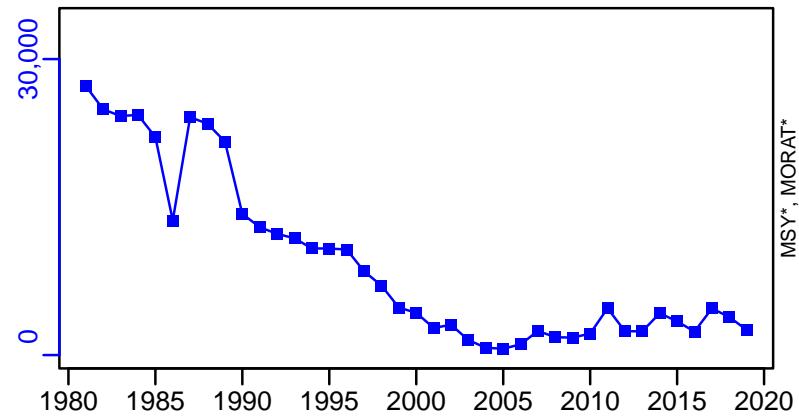


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Atlantic cod West of Scotland [CODV1a]

TC-MT, TL*, RecC* (1981–2020—ICESIM2021–2)

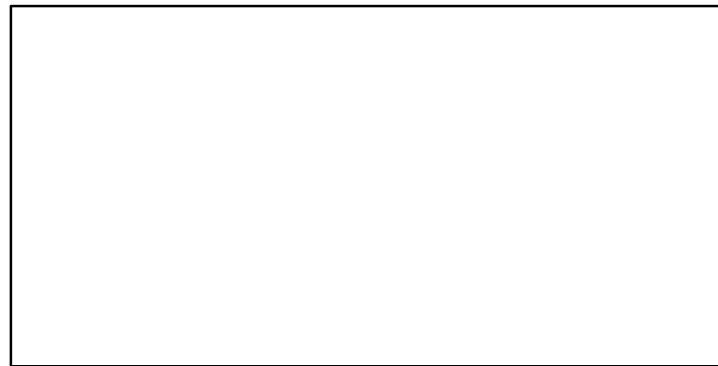
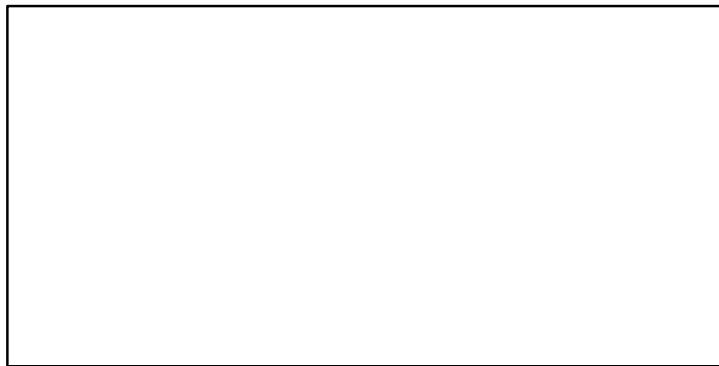
TAC*, Cpair*, Cadv*



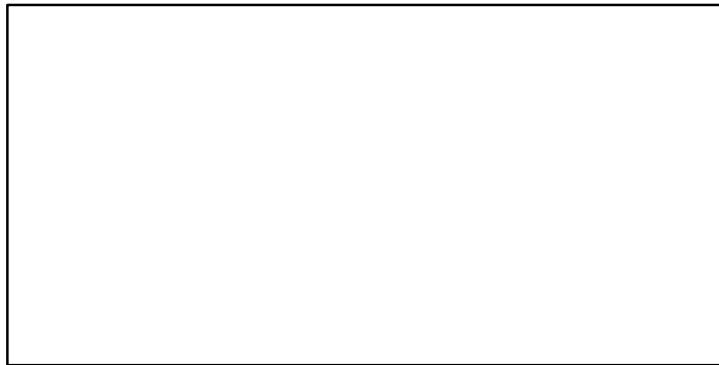
survB*

MSY*, MORAT*

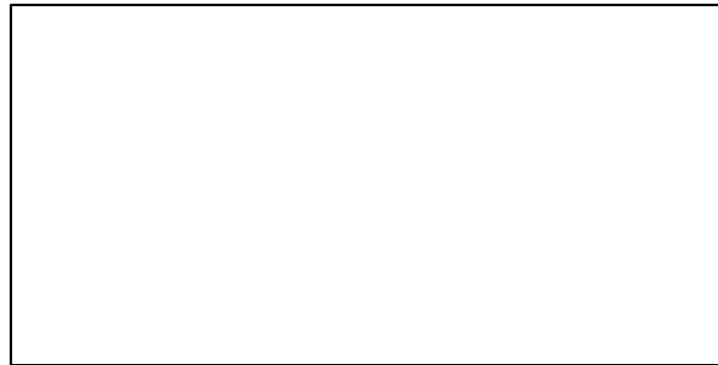
CPUE*



EFFORT*



CdivMSY*



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

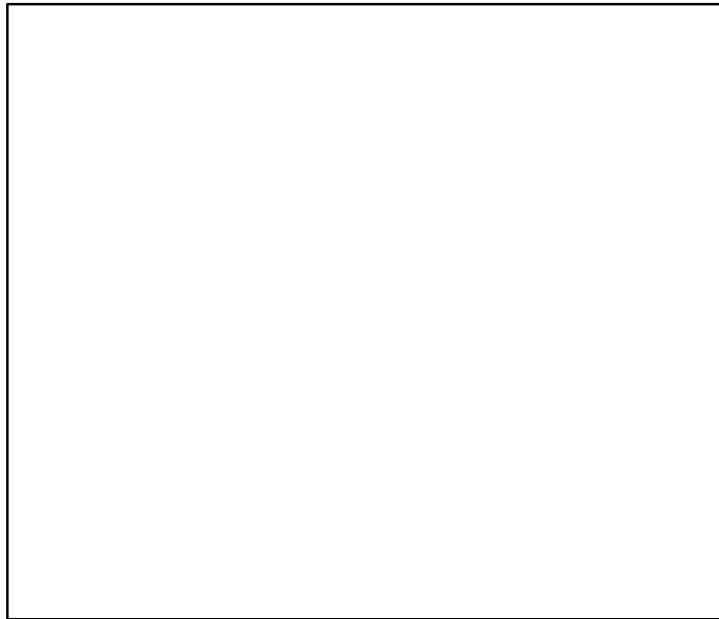
Atlantic cod Rockall Bank [CODVlb]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVlb-1984-2019-ICESIMP2021-2
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016, 2019

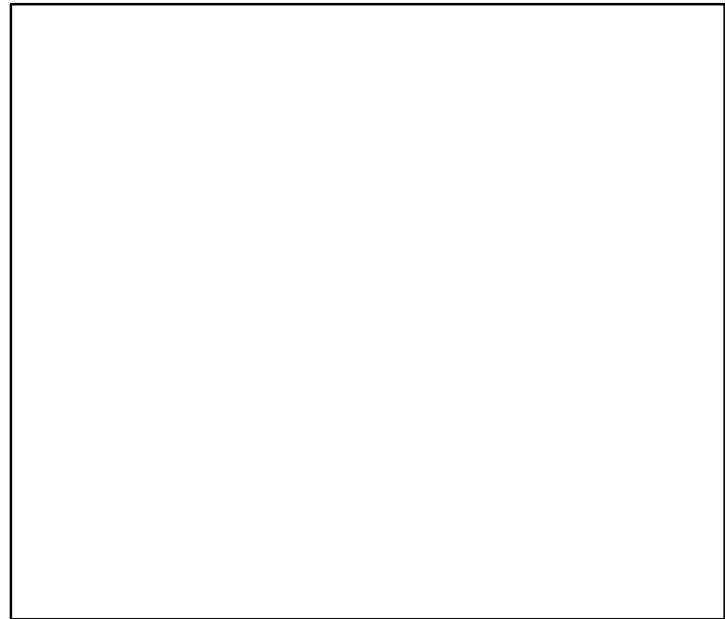
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	68		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

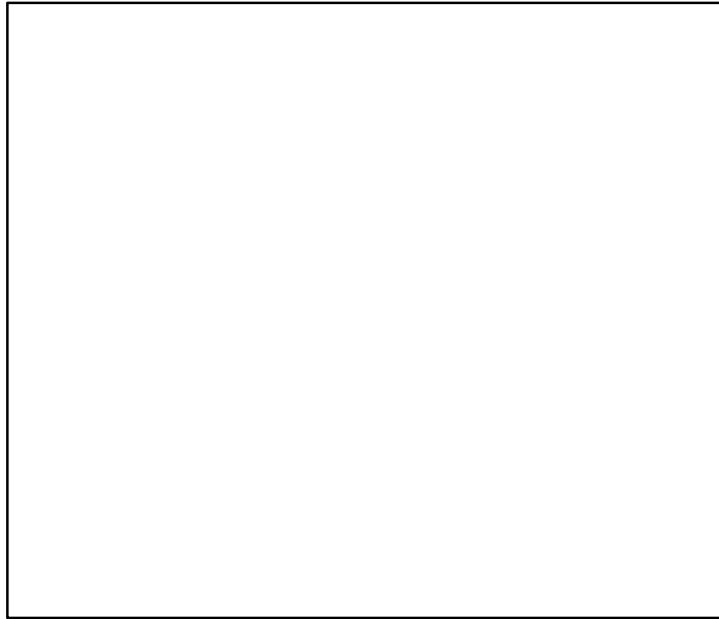
Kobe MSY*



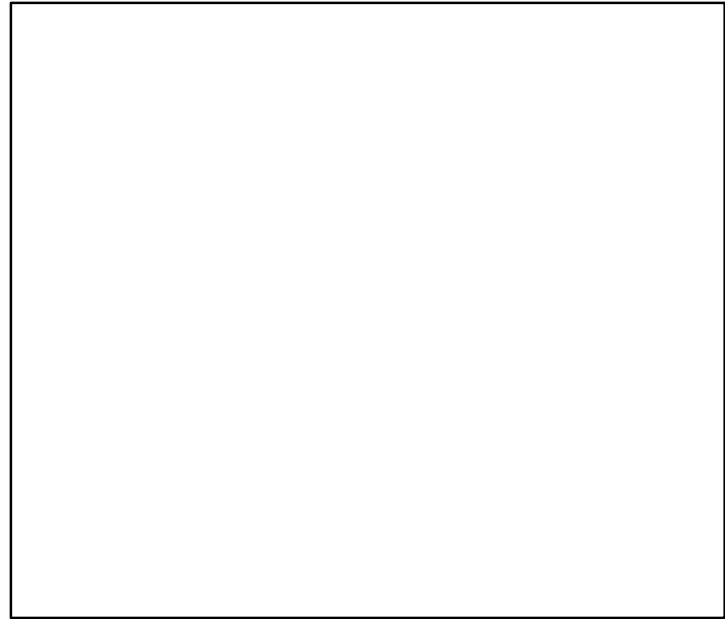
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Atlantic cod Rockall Bank [CODVlb]

TB*



SSB*



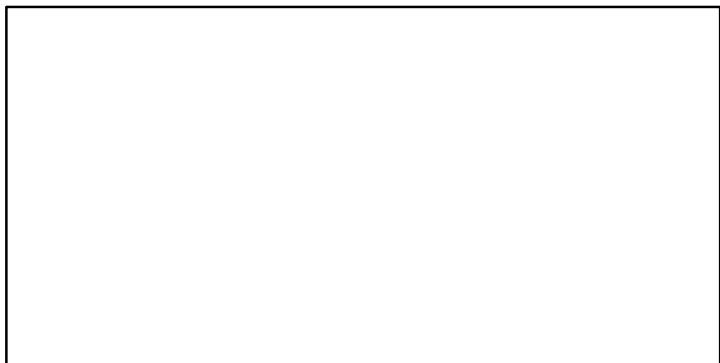
TN *



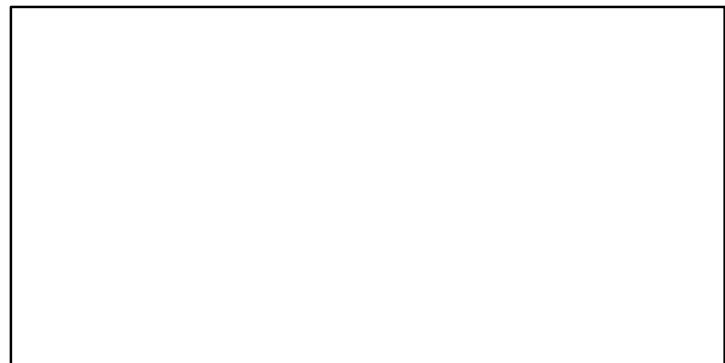
F*



ER*



Recruits*

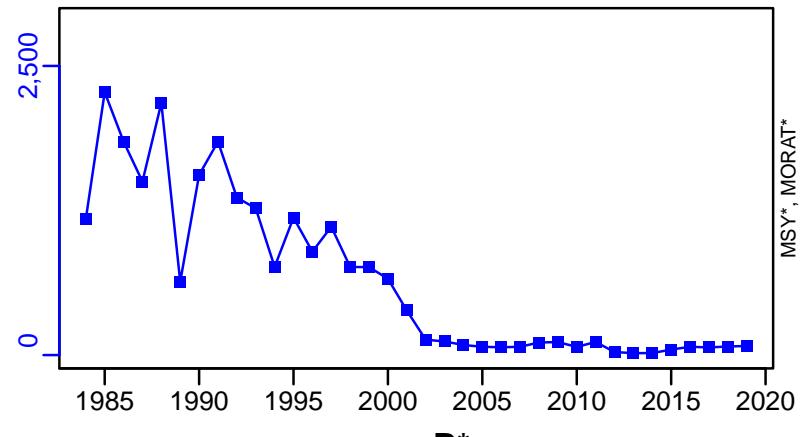


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Atlantic cod Rockall Bank [CODV1b]

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

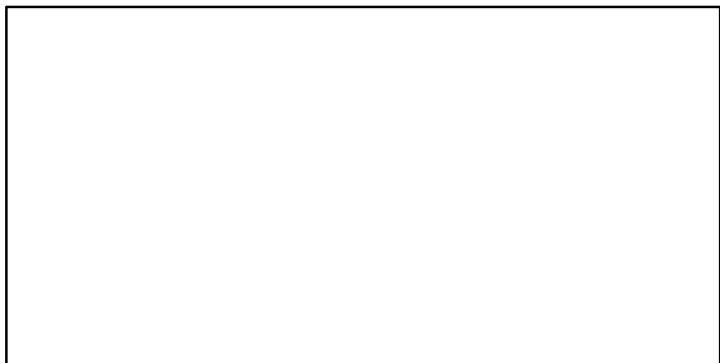
TAC*, Cpair*, Cadv*



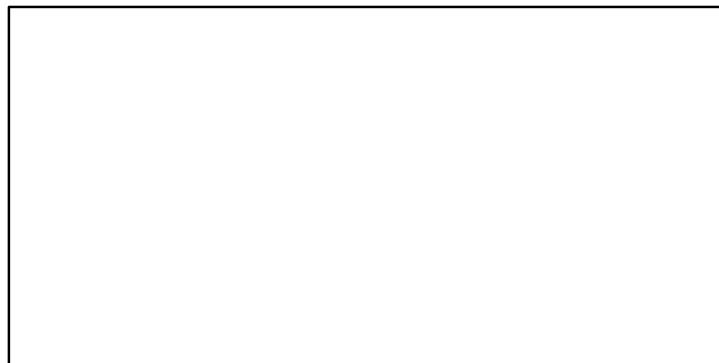
CPUE*



EFFORT*



CdivMSY*



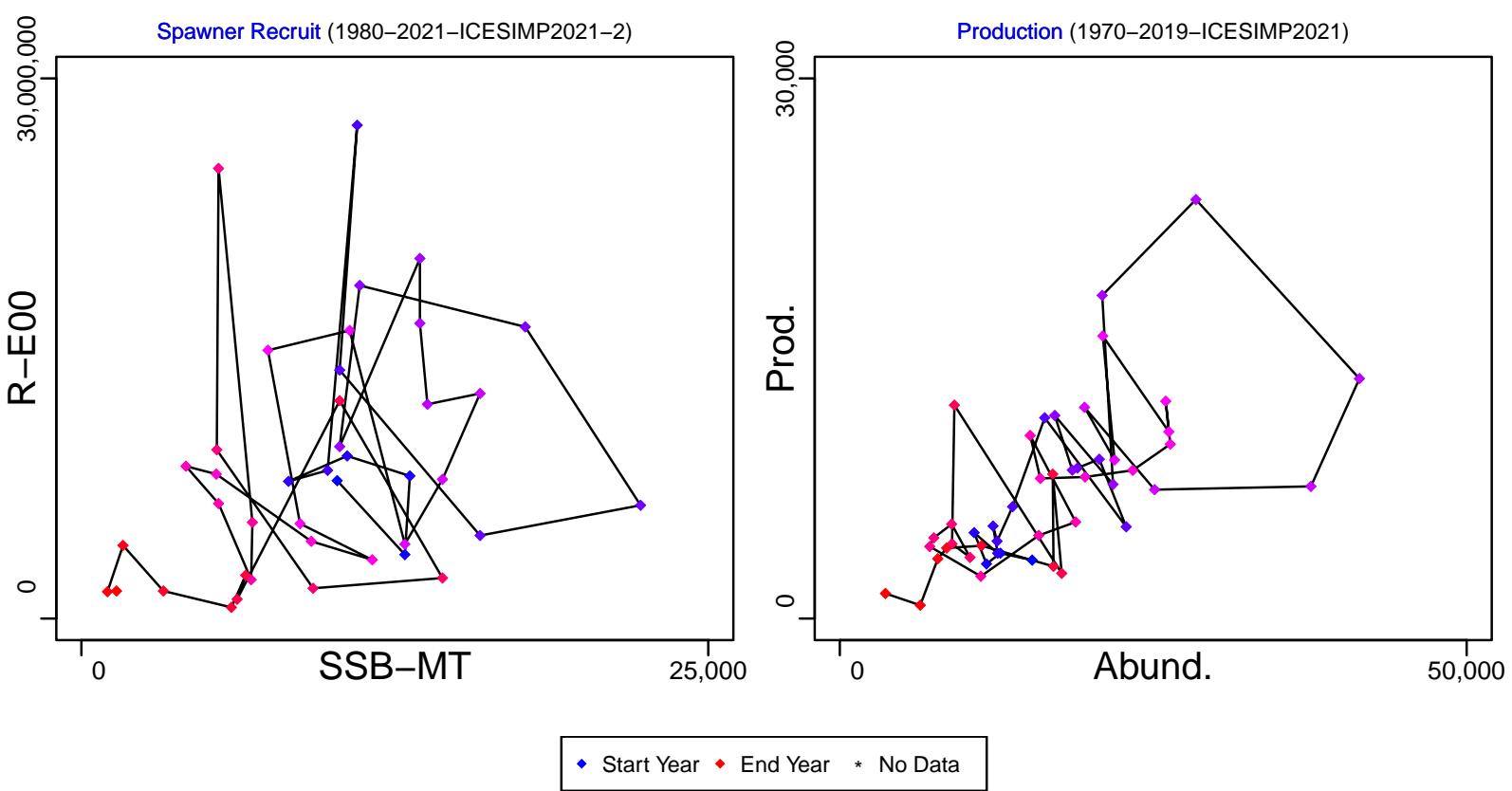
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Atlantic cod Celtic Sea [CODVilek]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVilek-1980-2021-ICESIMP2021-2
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021

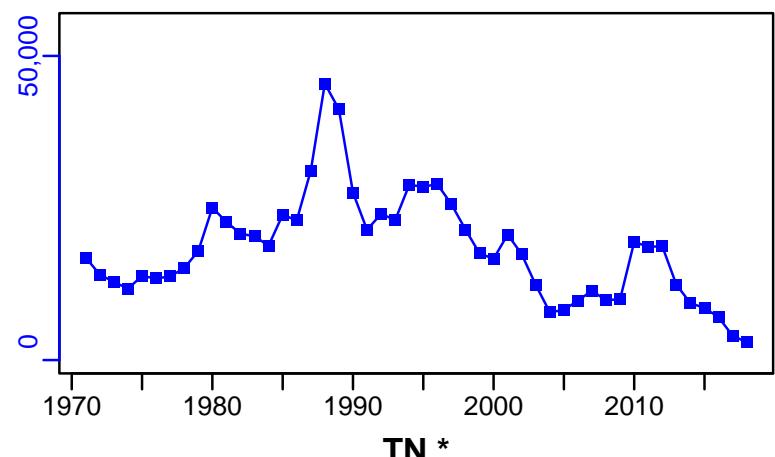
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.29
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	10,300
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	4200
Flim	Flim-1/yr	2021	1.13
ERlim	-	-	-

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

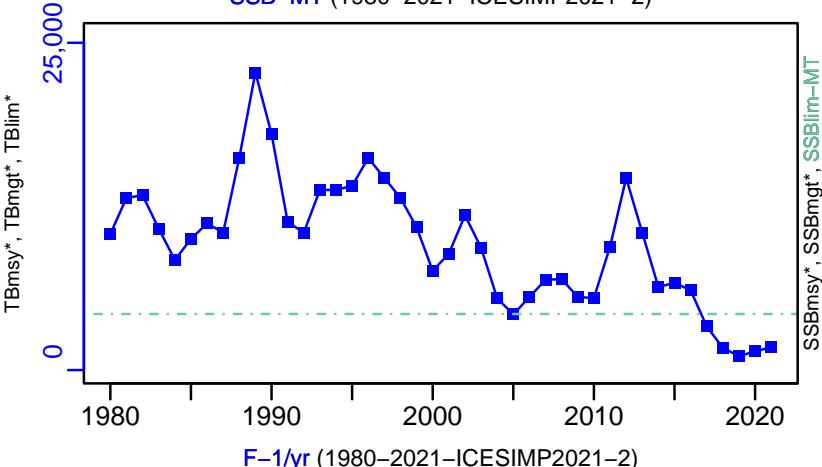
Kobe MSY***Kobe MGT***

Atlantic cod Celtic Sea [CODVIlek]

TB-MT (1970–2019–ICESIMP2021)



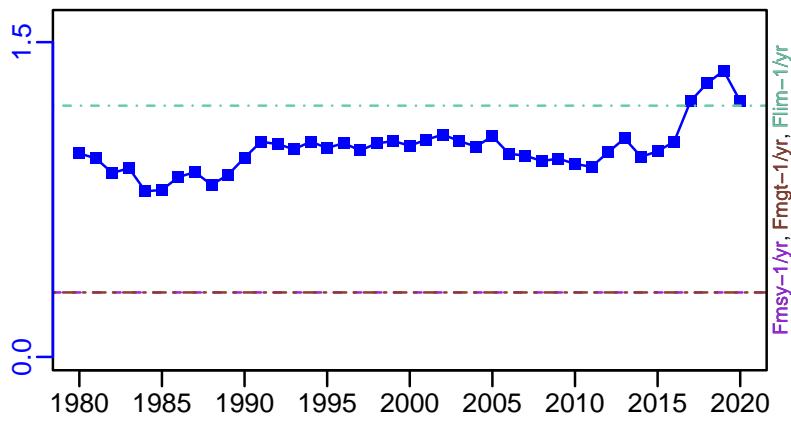
SSB-MT (1980–2021–ICESIMP2021–2)



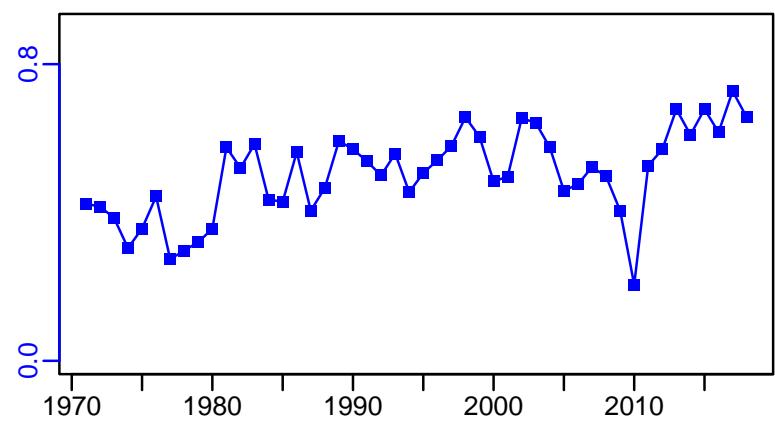
TN *



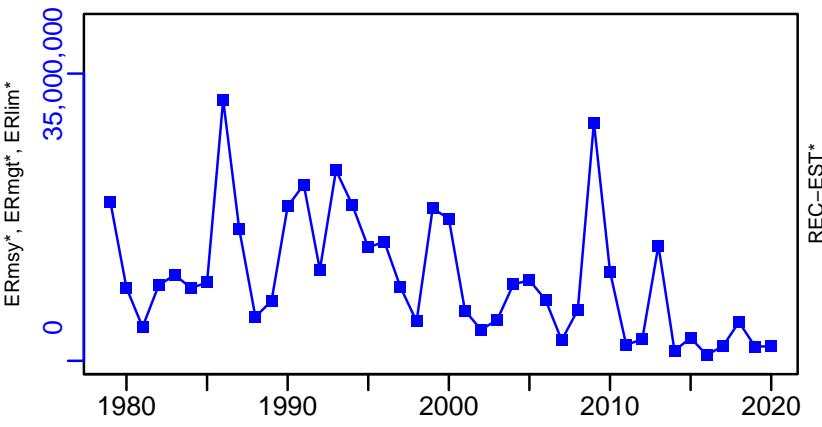
F-1/yr (1980–2021–ICESIMP2021–2)



ER-calc-ratio (1970–2019–ICESIMP2021)



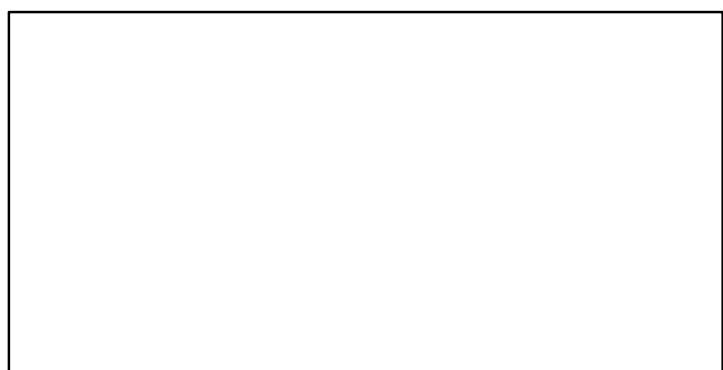
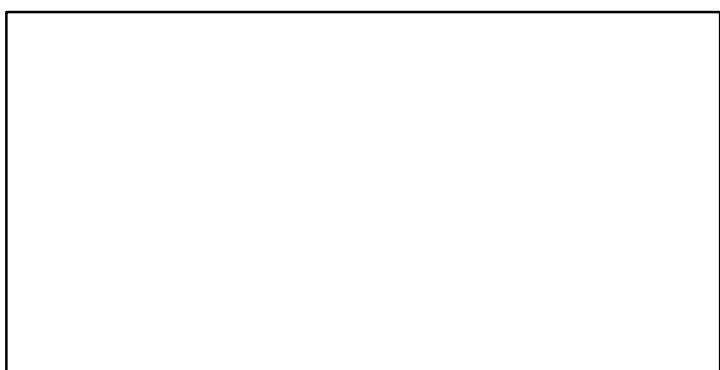
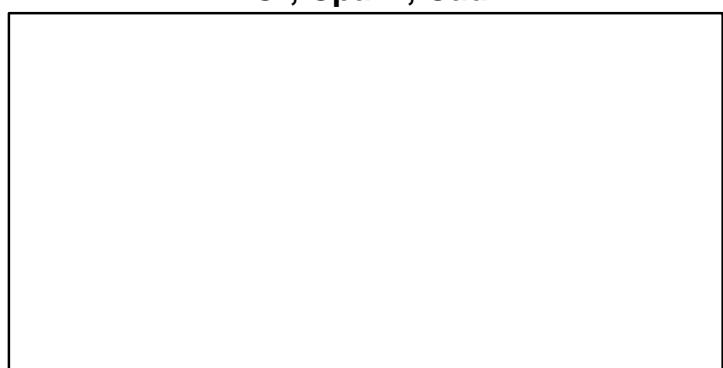
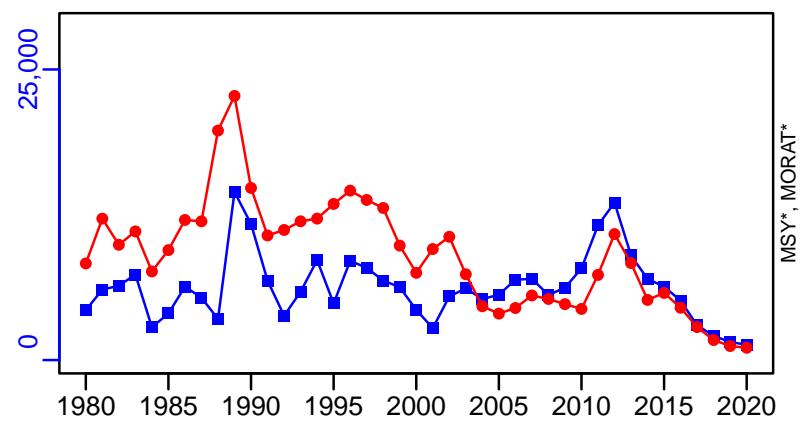
R-E00 (1980–2021–ICESIMP2021–2)



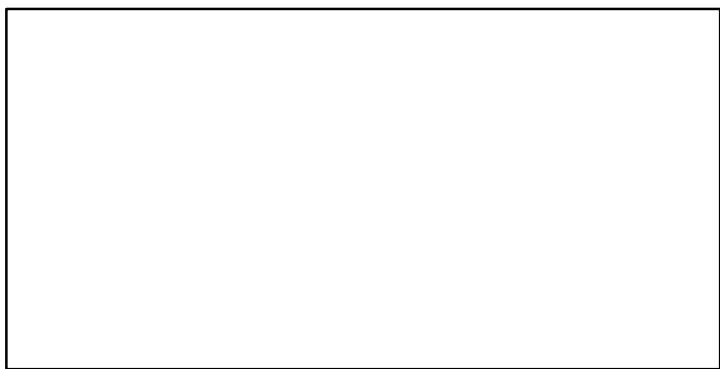
Atlantic cod Celtic Sea [CODVIlek]

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

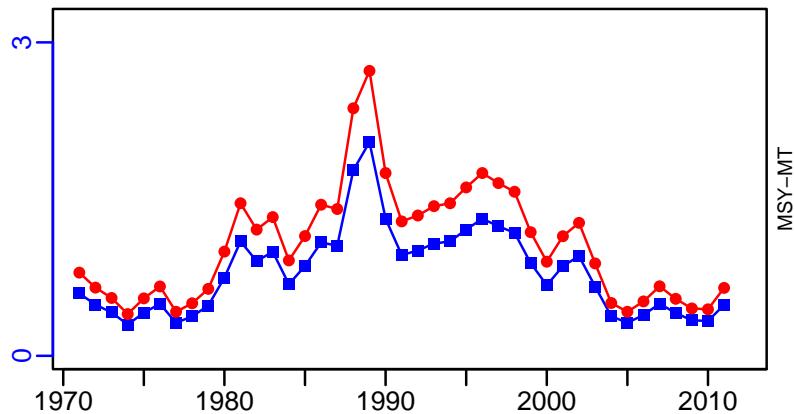
TAC*, Cpair*, Cadv*



EFFORT*



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



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

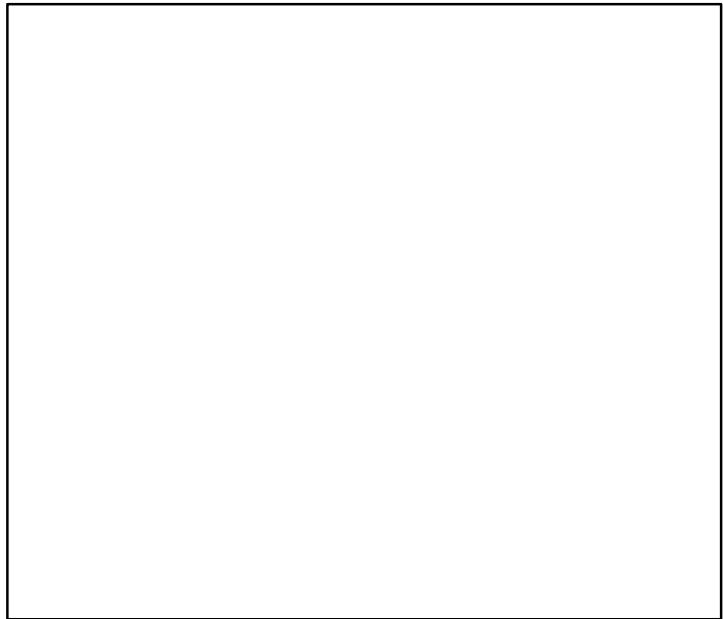
Tusk Northeast Atlantic [CUSKNEATL]

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

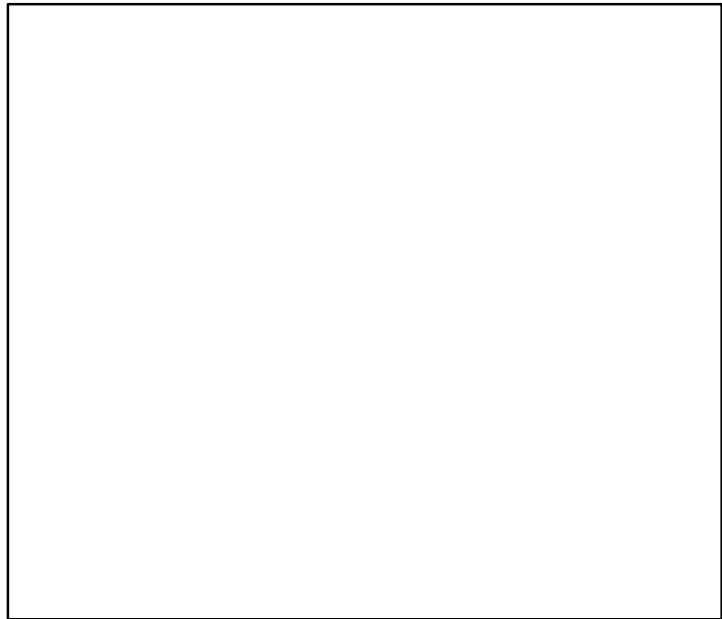
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

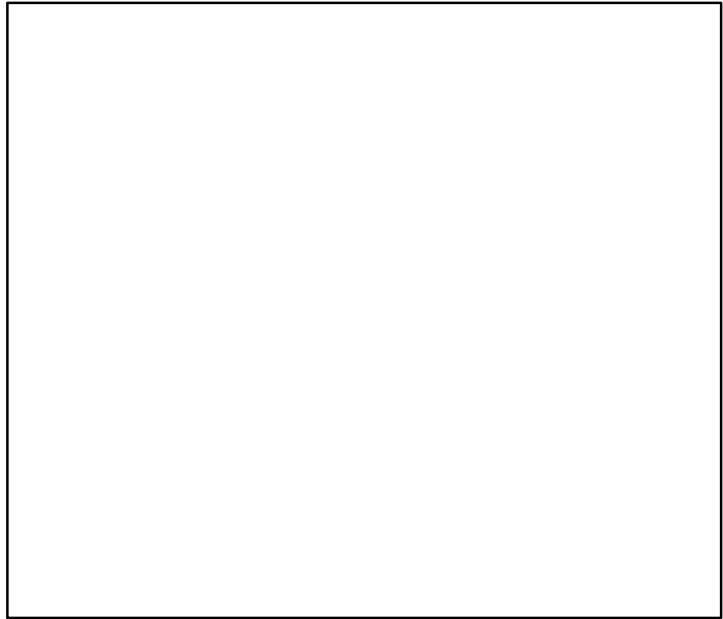
Kobe MSY*



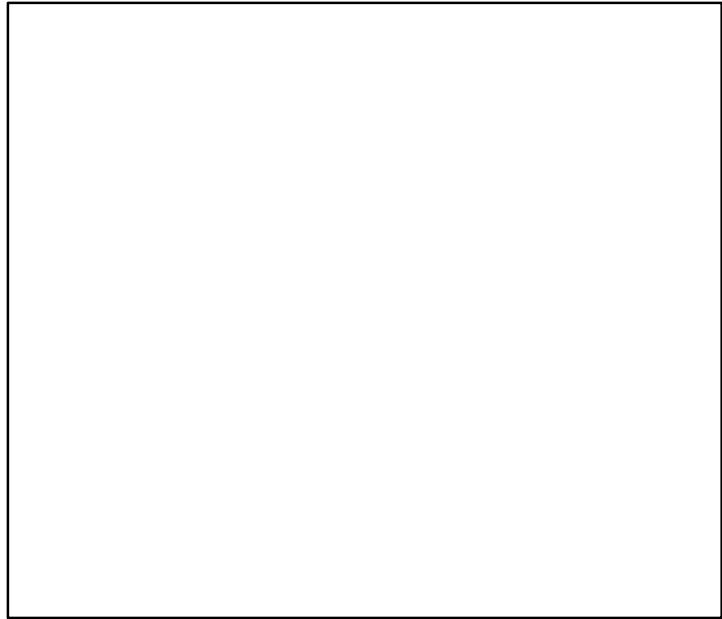
Kobe MGT*



Spawner Recruit*



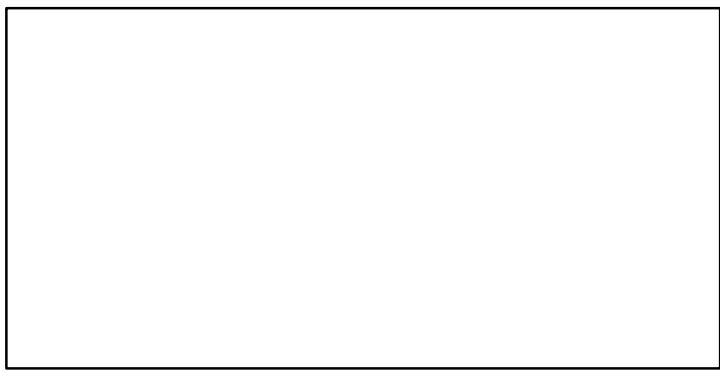
Production*



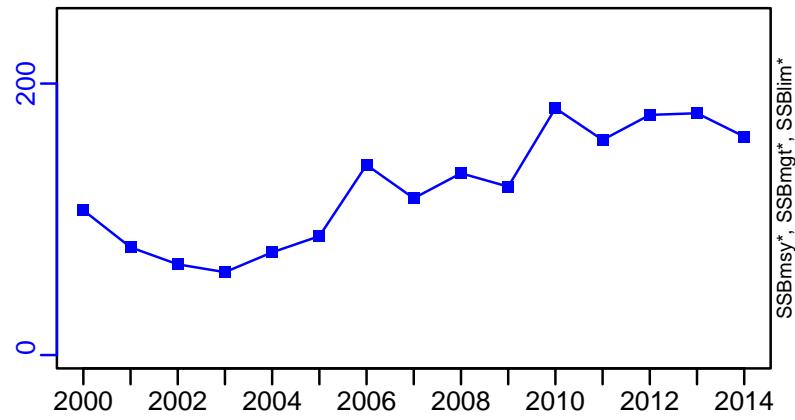
◆ Start Year ♦ End Year * No Data

Tusk Northeast Atlantic [CUSKNEATL]

TB*



SSB-index (1988–2014–ICESIMP2018)



SSB_msy*, SSB_{mgt}*, SSB_{lim}*

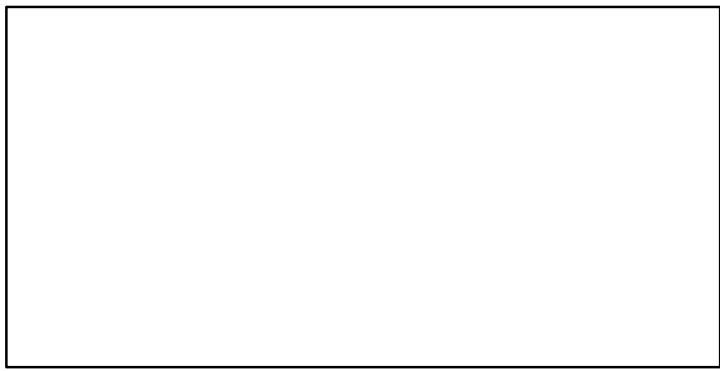
TN *



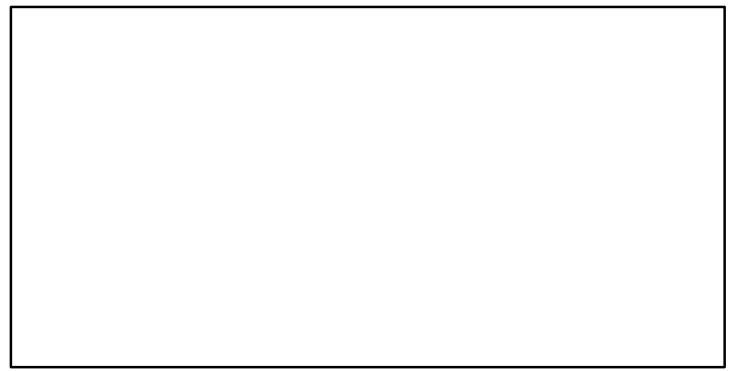
F*



ER*



Recruits*

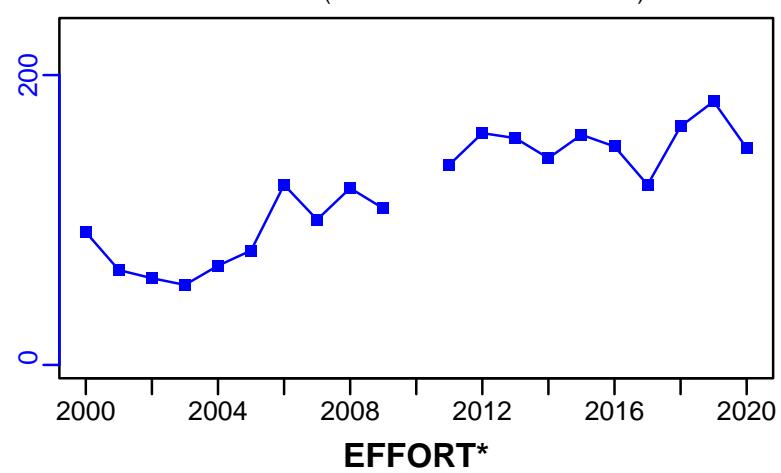
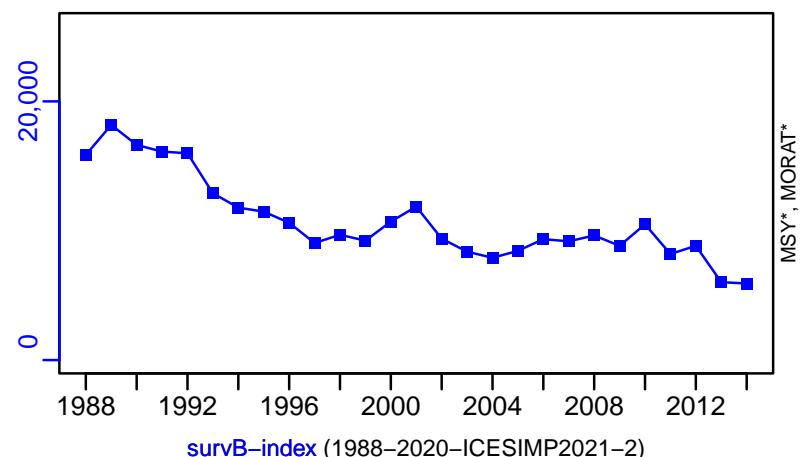


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Tusk Northeast Atlantic [CUSKNEATL]

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

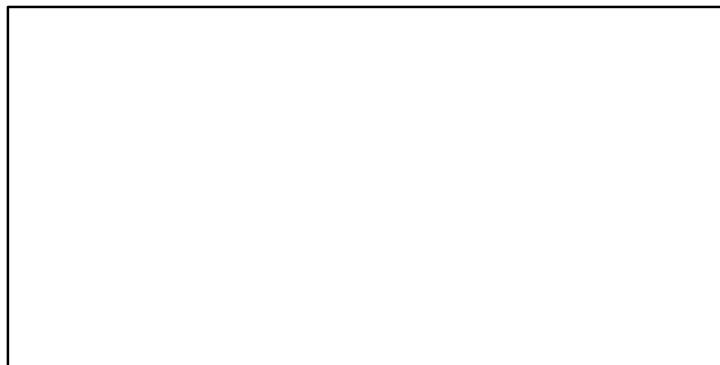
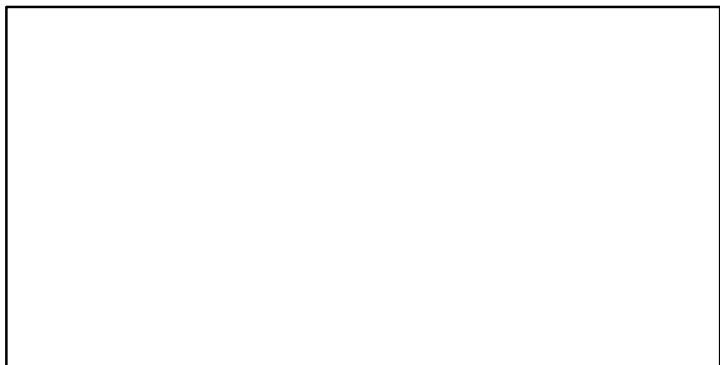
TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

Tusk ICES 5a-14 [CUSKVa-XIV]

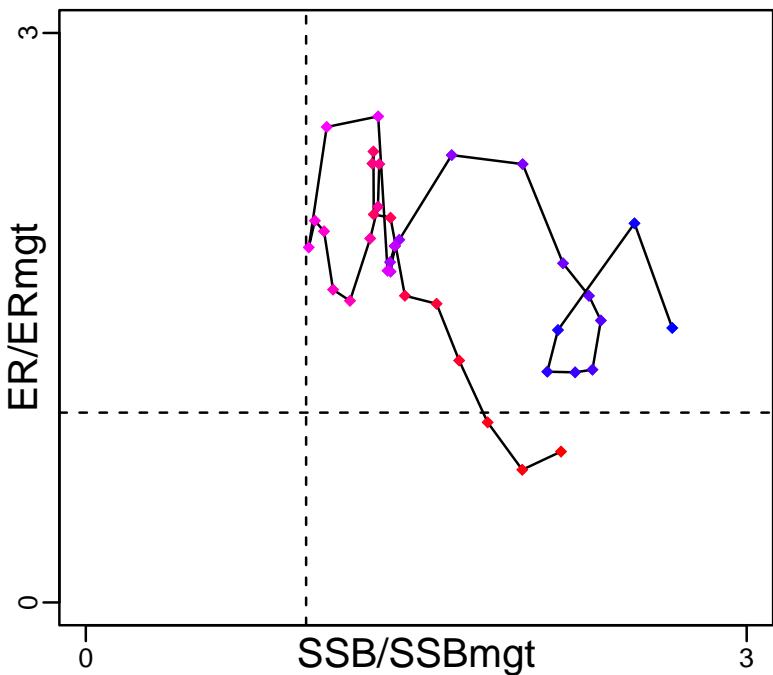
Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVa-XIV-1982-2021-ICESIMP2021-2
Area	ICES 5a-14
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2019, 2014, 2017,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

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

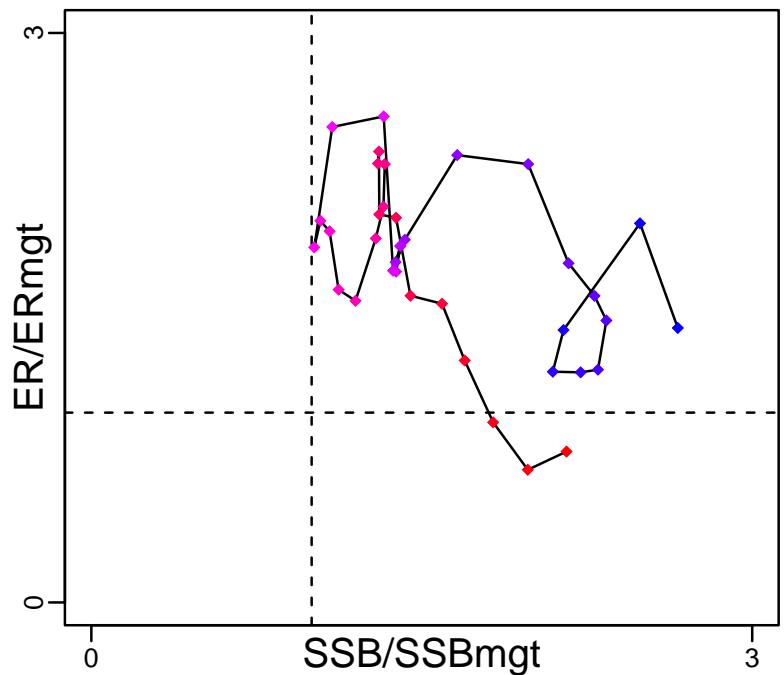
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	37,093	-	-
SSB	SSB-MT	2021	6500	-	-
TN	-	-	-	-	-
R	R-E00	2021	10,900	-	3
F	F-1/yr	2016	0.22	-	-
ER	ER-ratio	2021	0.215	-	-
TC	TC-MT	2021	3420		
TL	TL-MT	2021	3420		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.1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

Tusk ICES 5a–14 [CUSKVa–XIV]

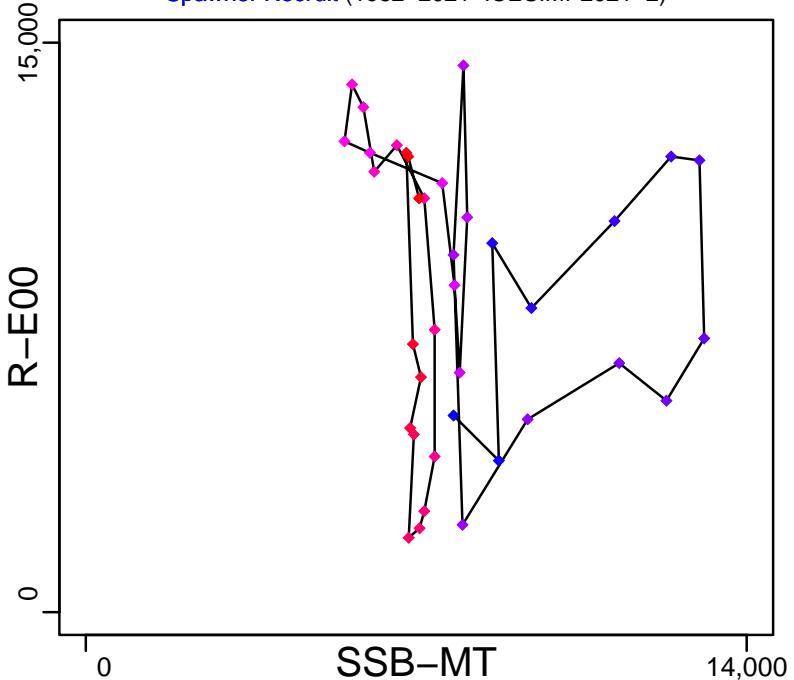
Kobe MSYpref (1973–2019–ICESIMP2021)



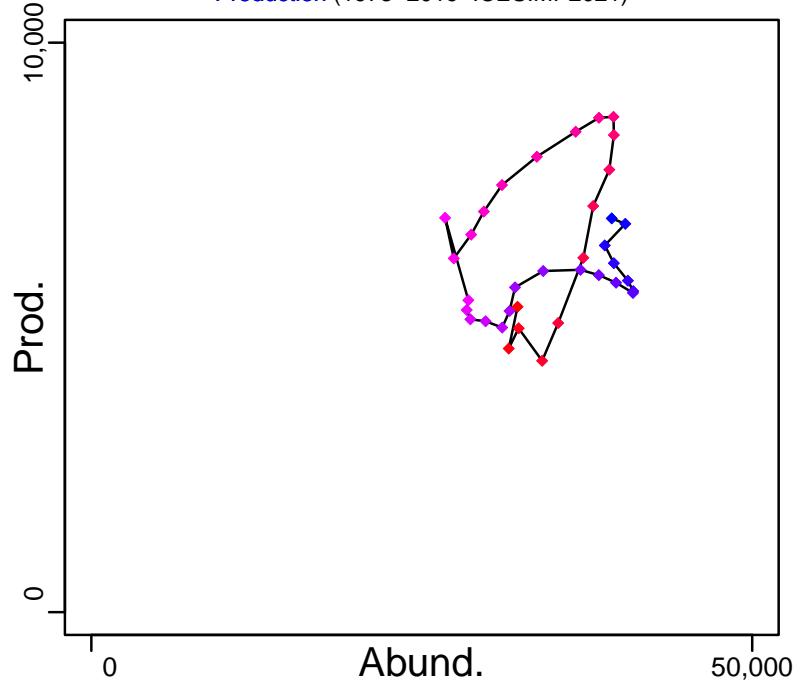
Kobe MGTpref (1973–2019–ICESIMP2021)



Spawner Recruit (1982–2021–ICESIMP2021–2)



Production (1973–2019–ICESIMP2021)

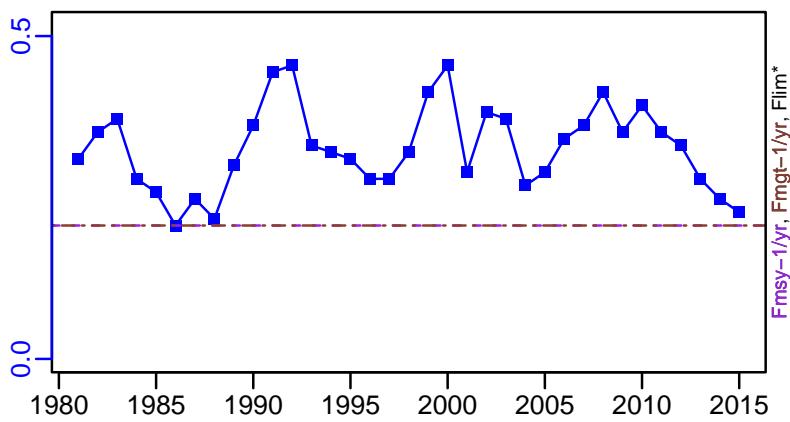
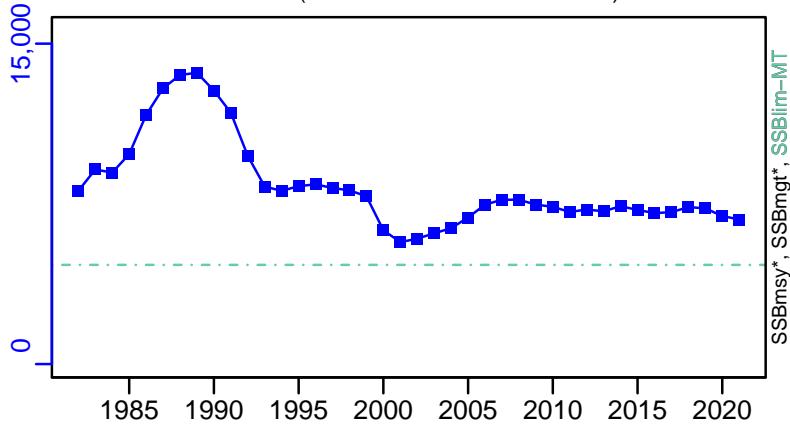
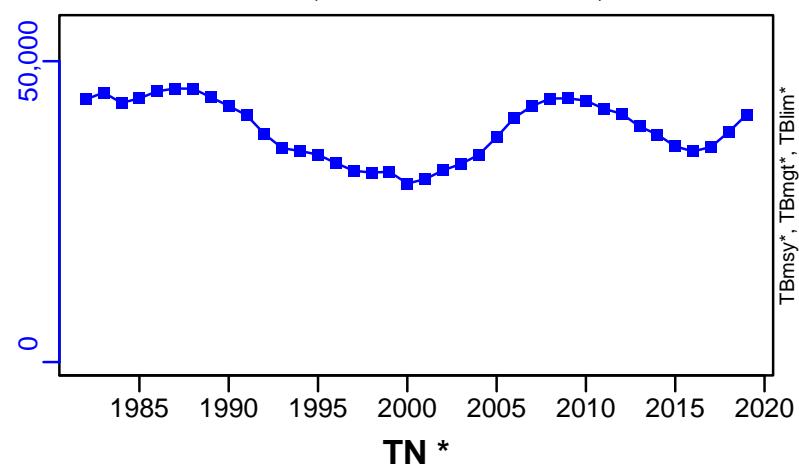


◆ Start Year ◆ End Year * No Data

Tusk ICES 5a–14 [CUSKVa–XIV]

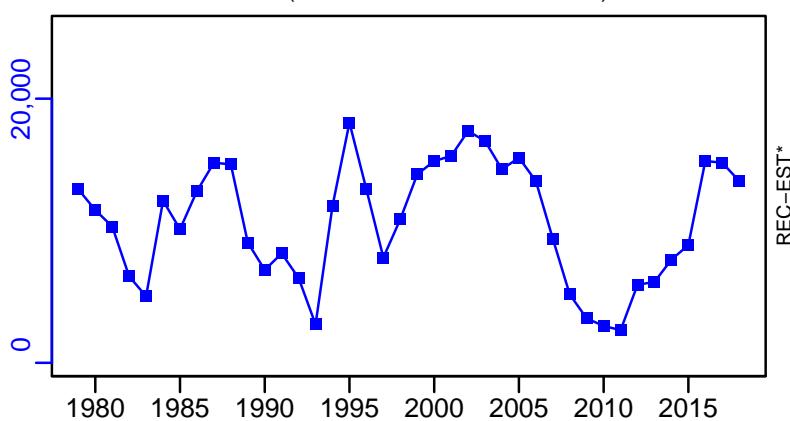
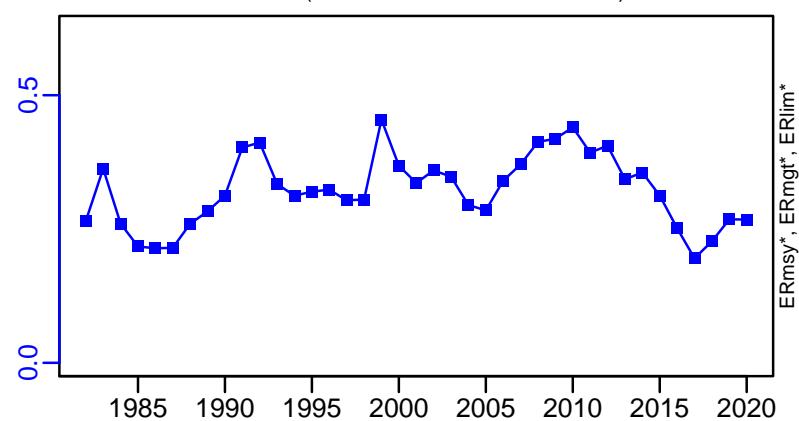
TB-MT (1973–2019–ICESIMP2021)

SSB-MT (1982–2021–ICESIMP2021–2)



ER-ratio (1982–2021–ICESIMP2021–2)

R-E00 (1982–2021–ICESIMP2021–2)

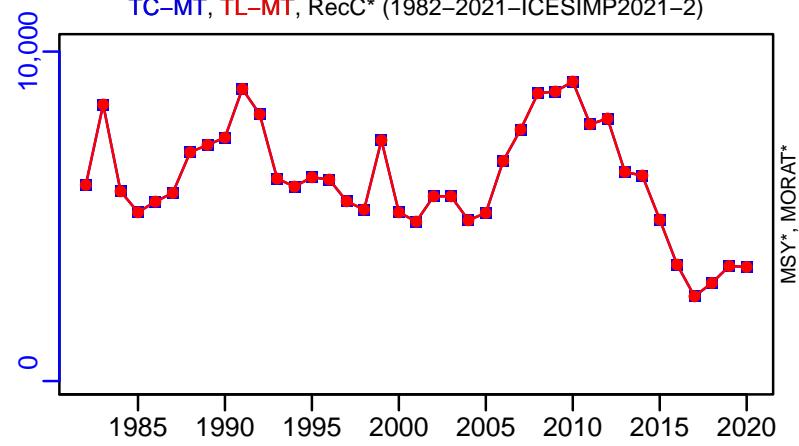


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Tusk ICES 5a–14 [CUSKVa–XIV]

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

TAC*, Cpair*, Cadv*



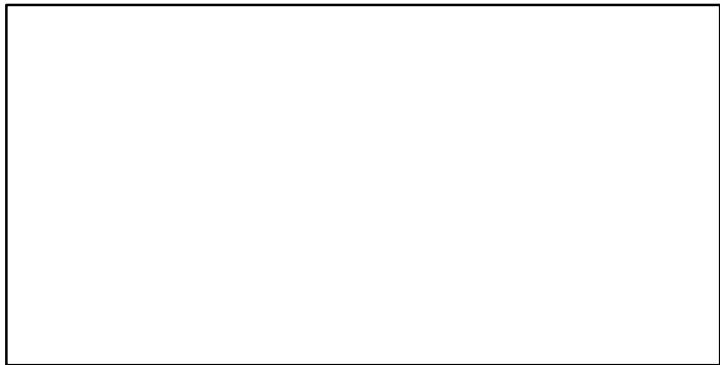
survB*



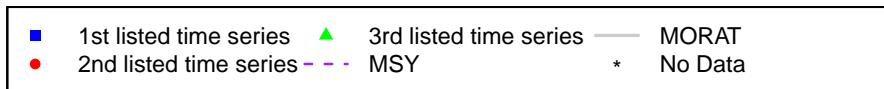
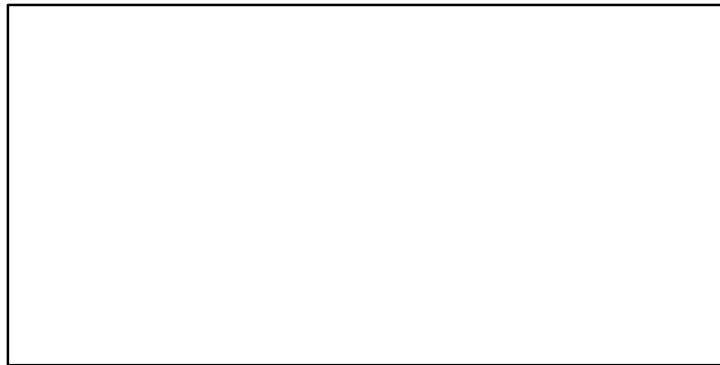
CPUE*



EFFORT*



CdivMSY*



Tusk Rockall Bank [CUSKVIb]

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

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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

TB*



SSB*



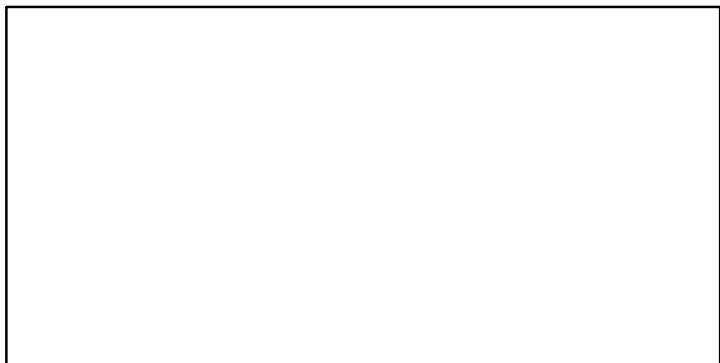
TN *



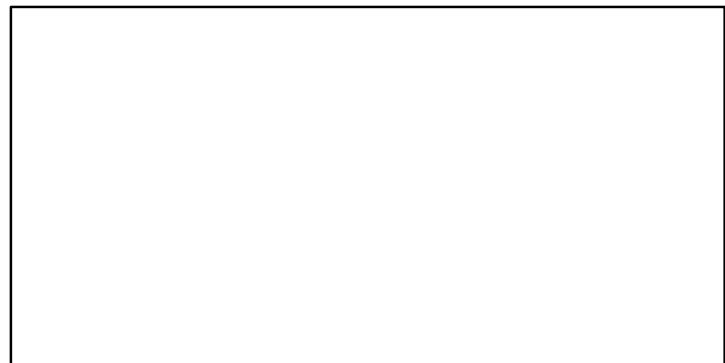
F*



ER*



Recruits*

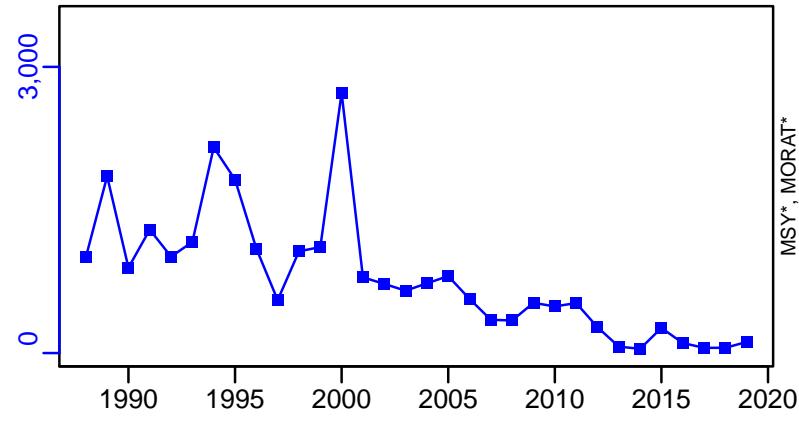


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Tusk Rockall Bank [CUSKVIb]

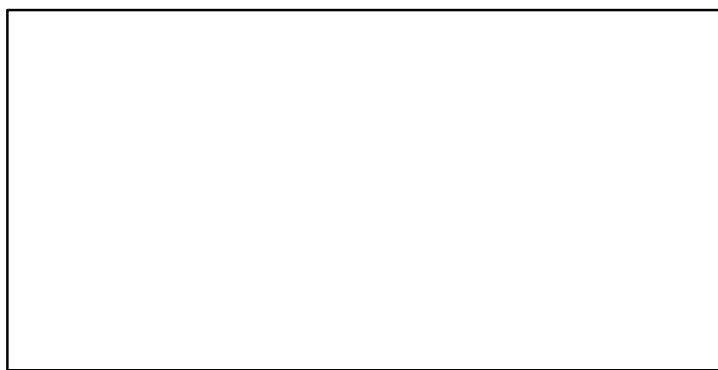
TL-MT, TC*, RecC* (1988–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

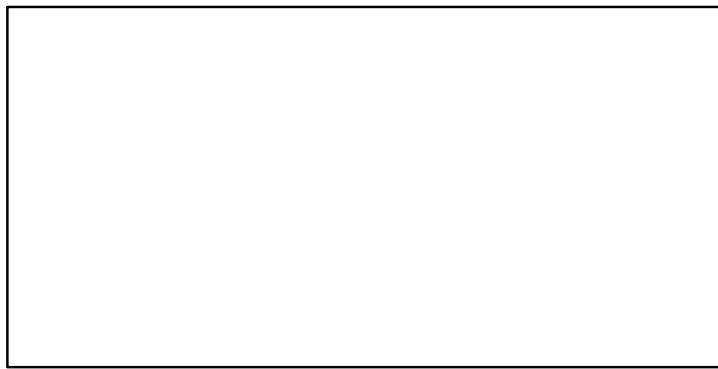
MSY*, MORAT*



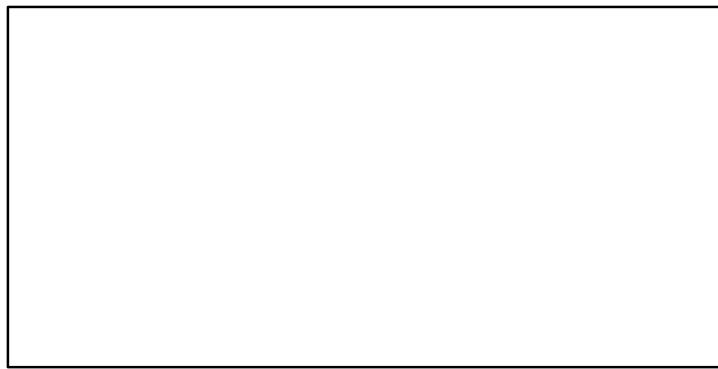
CPUE*



EFFORT*



CdivMSY*



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

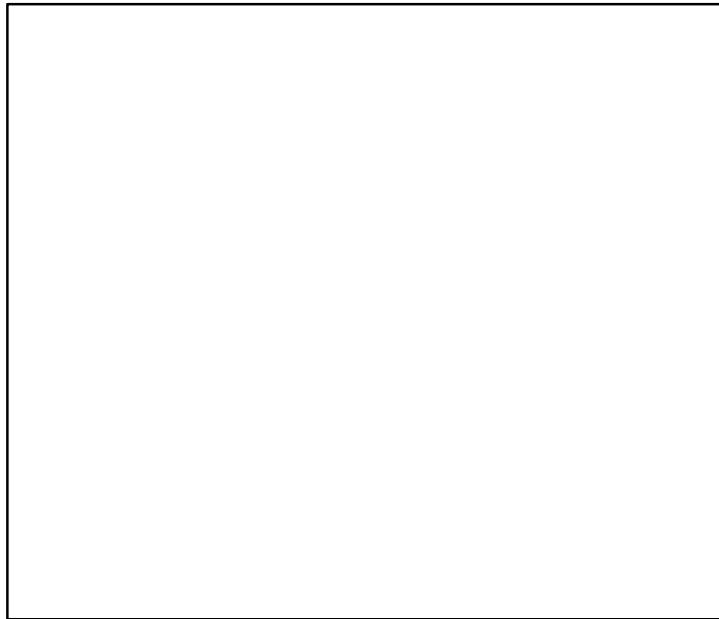
Tusk North of Azores [CUSKXII]

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

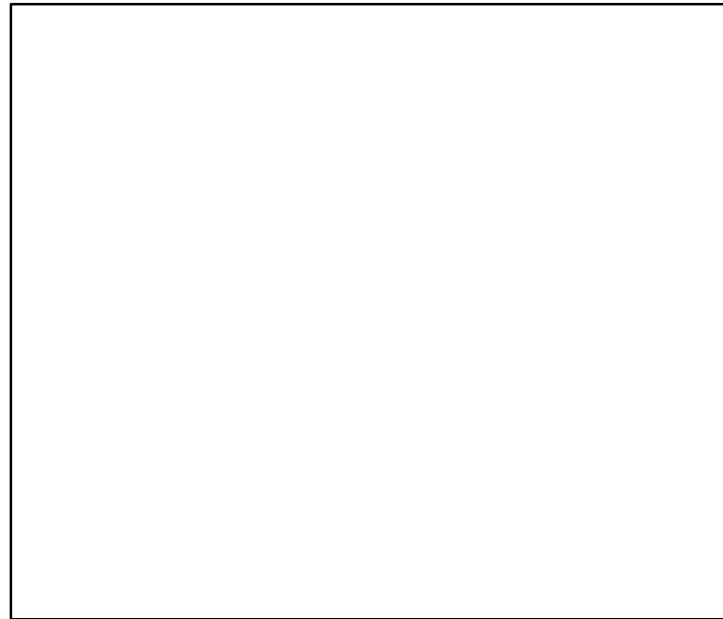
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

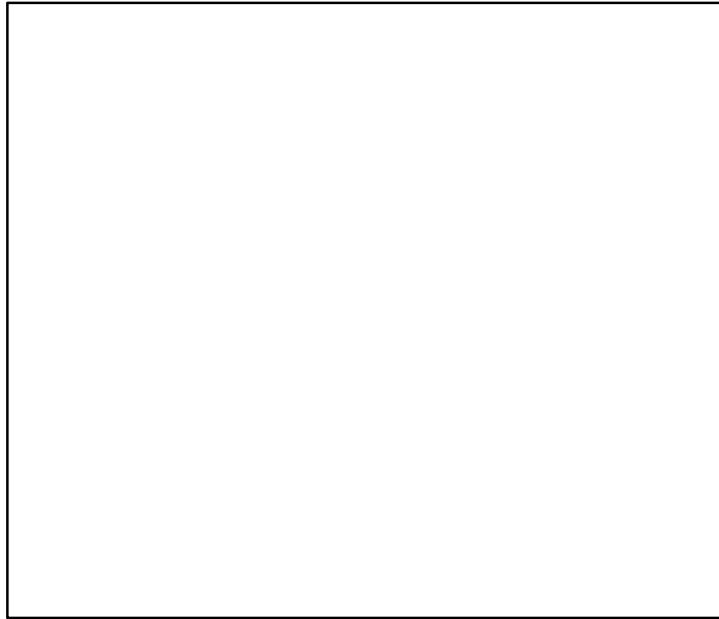
Kobe MSY*



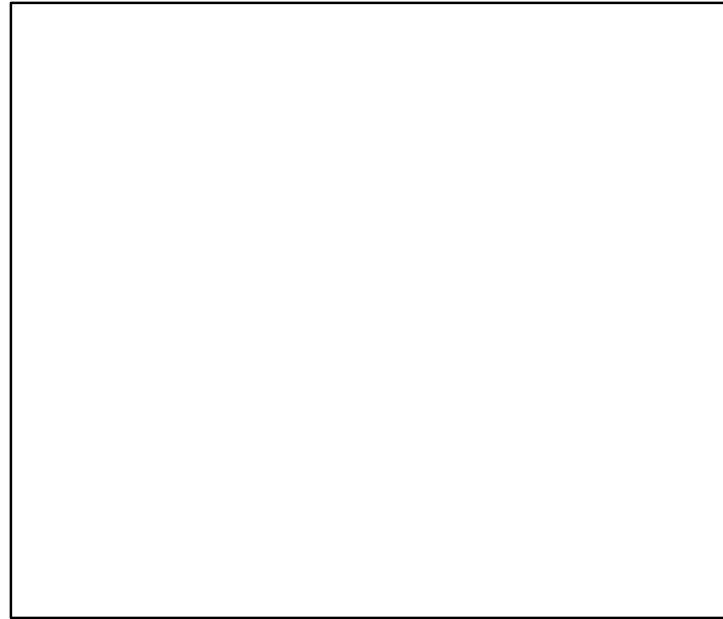
Kobe MGT*



Spawner Recruit*



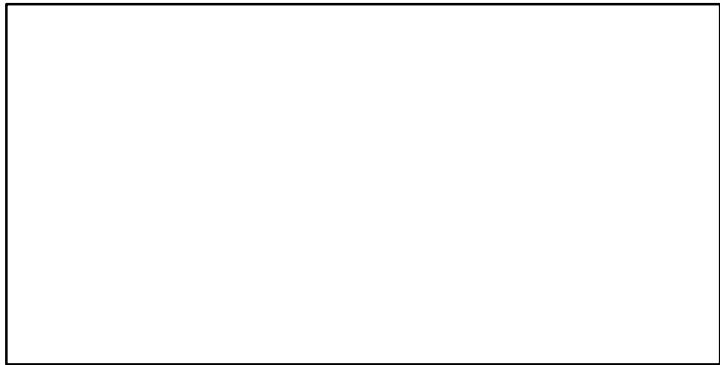
Production*



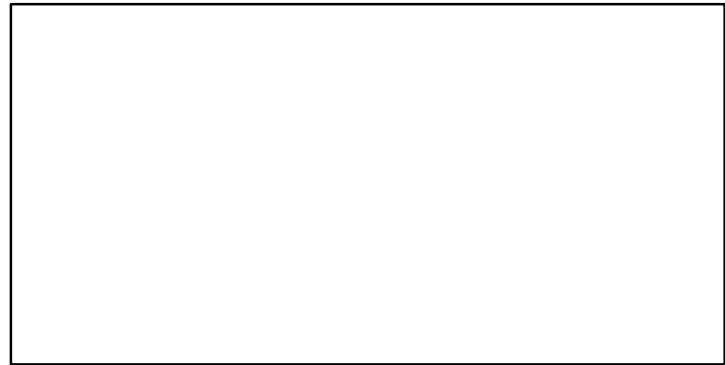
◆ Start Year ♦ End Year * No Data

Tusk North of Azores [CUSKXII]

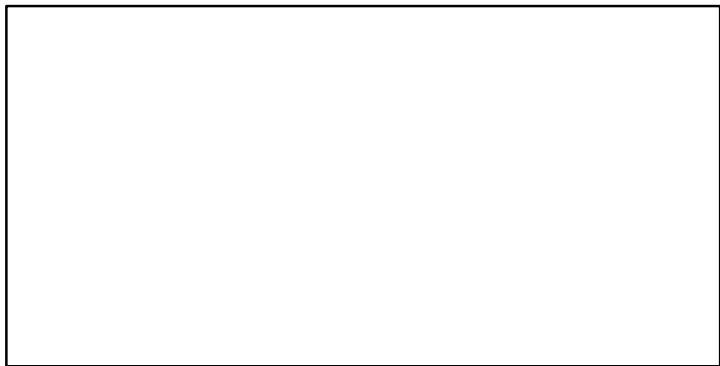
TB*



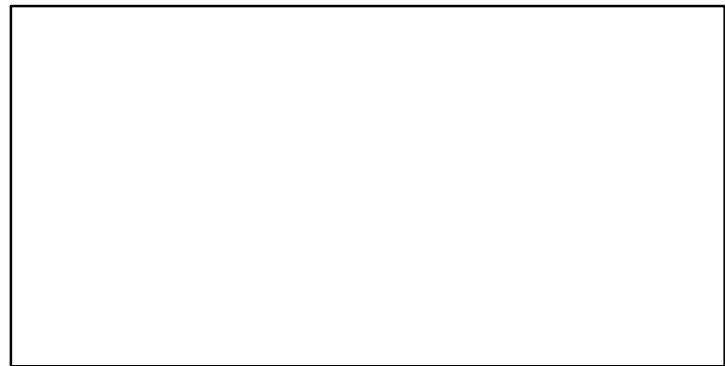
SSB*



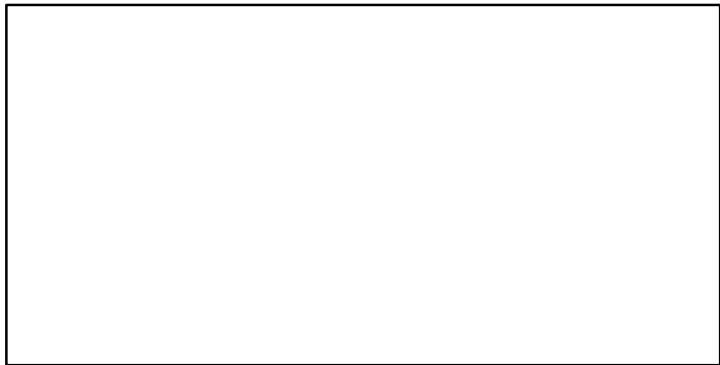
TN *



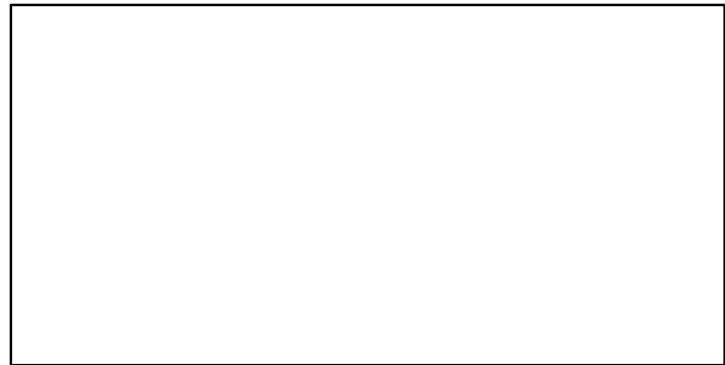
F*



ER*



Recruits*

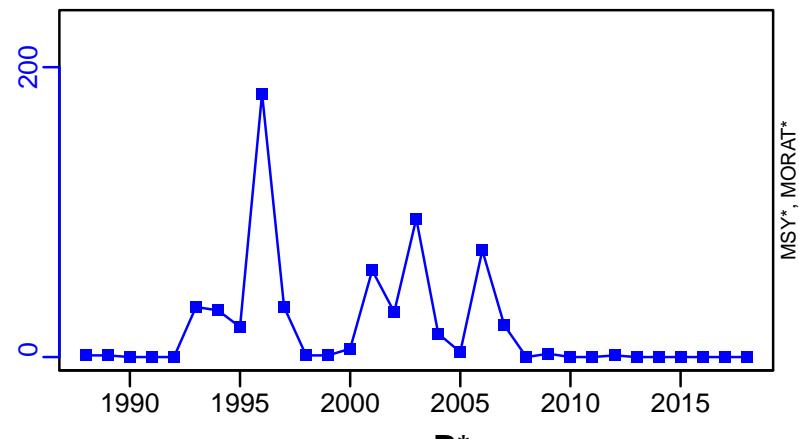


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Tusk North of Azores [CUSKXII]

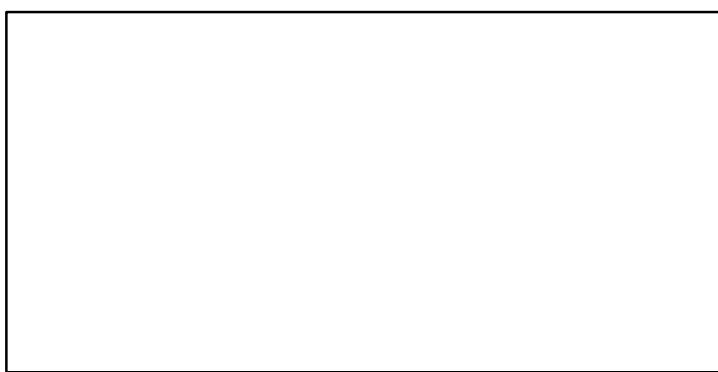
TL-MT, TC*, RecC* (1988–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*

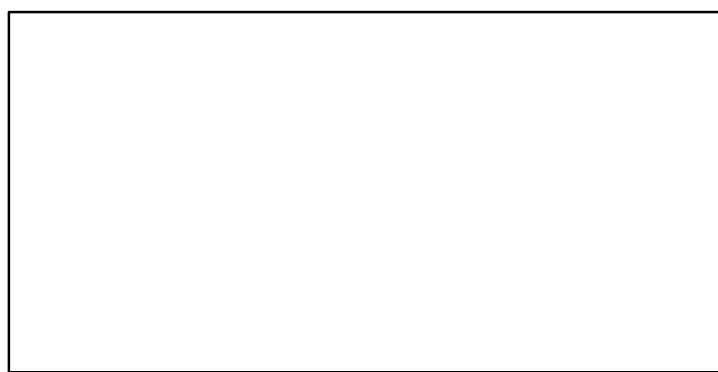


survB*

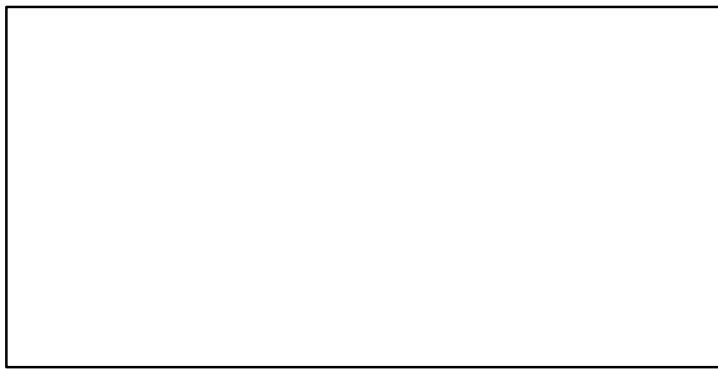
MSY*, MORAT*



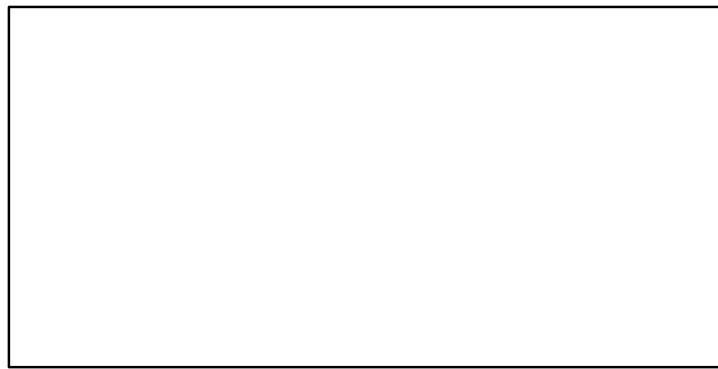
CPUE*



EFFORT*



CdivMSY*



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

Dab Baltic Areas 22-32 [DAB2232]

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

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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

TB*



SSB*



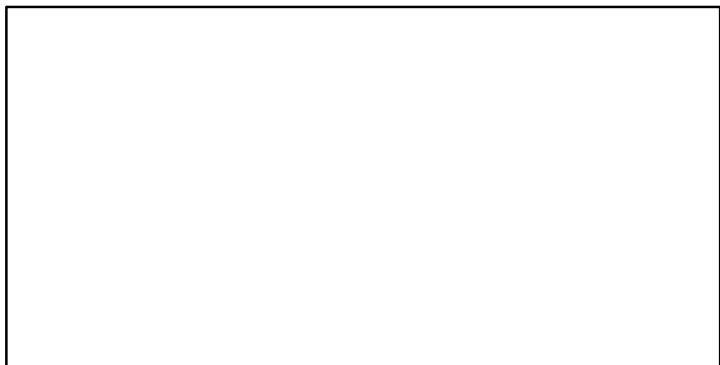
TN *



F*



ER*



Recruits*

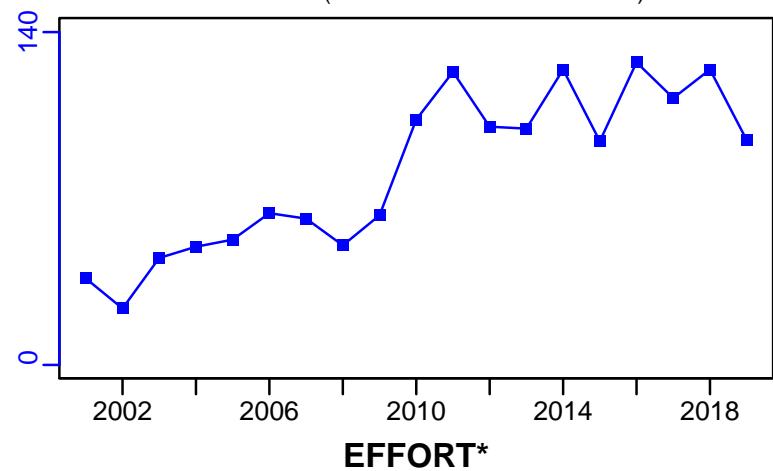
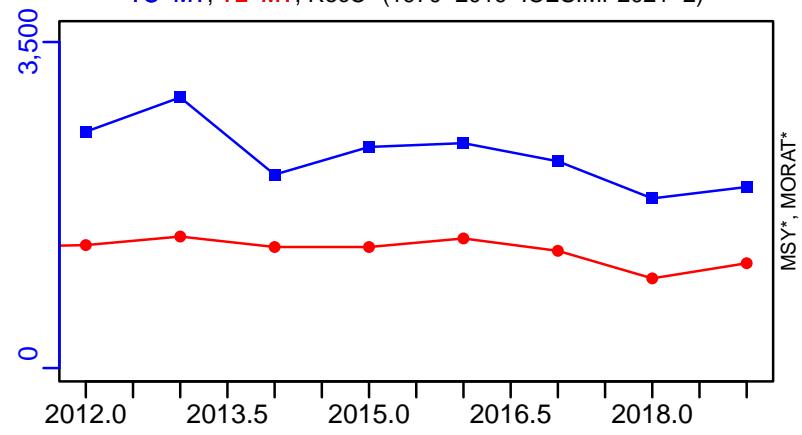


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Dab Baltic Areas 22–32 [DAB2232]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

Dab ICES 3a-4 [DABIIIa-IV]

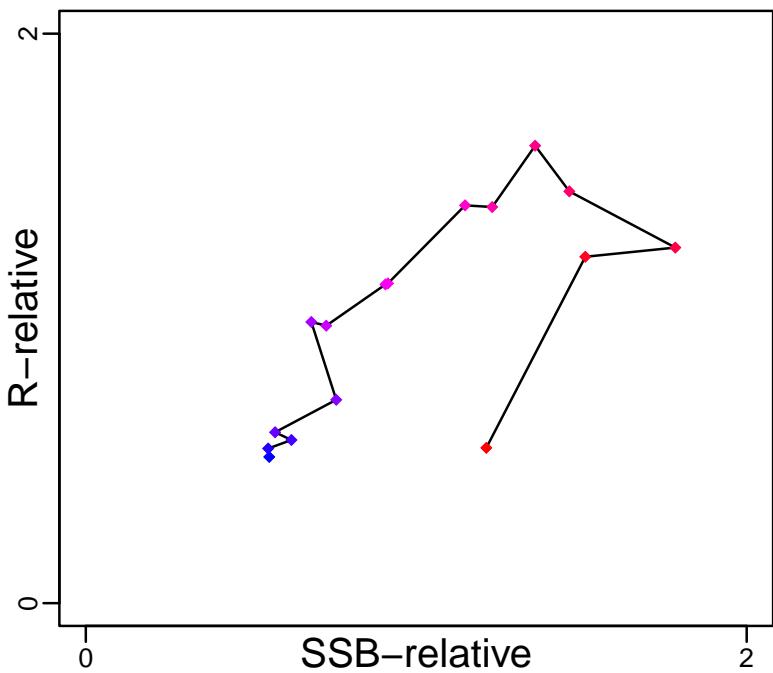
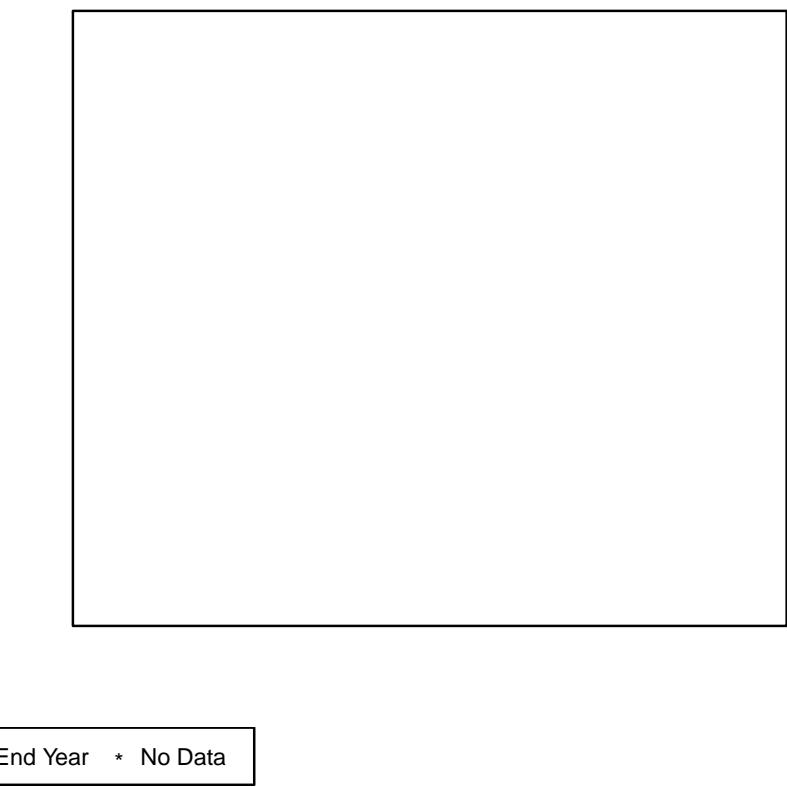
Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGNSSK-DABIIIa-IV-1965-2018-ICESIMP2021
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016,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

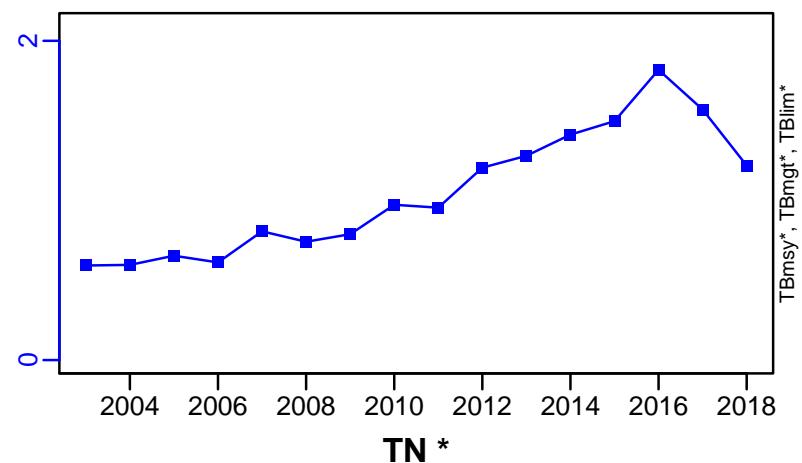
Spawner Recruit (1965–2018–ICESIMP2021)

**Production***

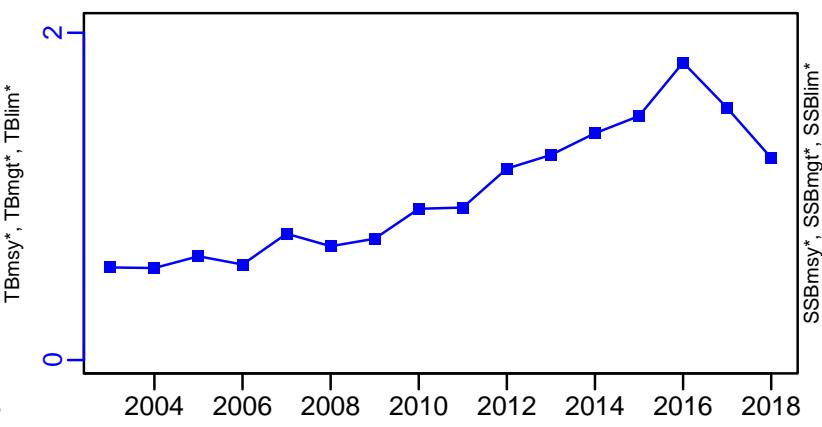
Dab ICES 3a–4 [DABIIIa–IV]

TB-relative (1965–2018–ICESIMP2021)

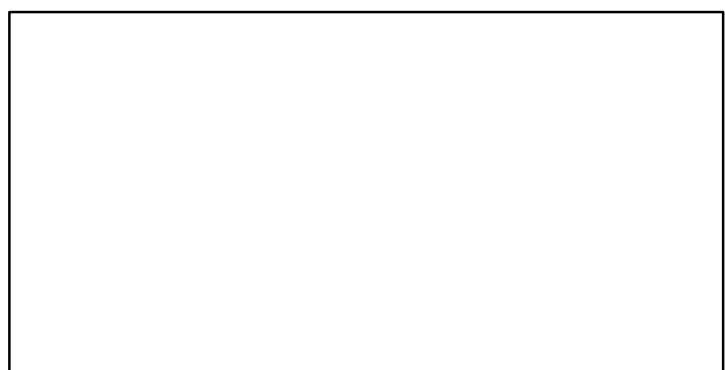
SSB-relative (1965–2018–ICESIMP2021)



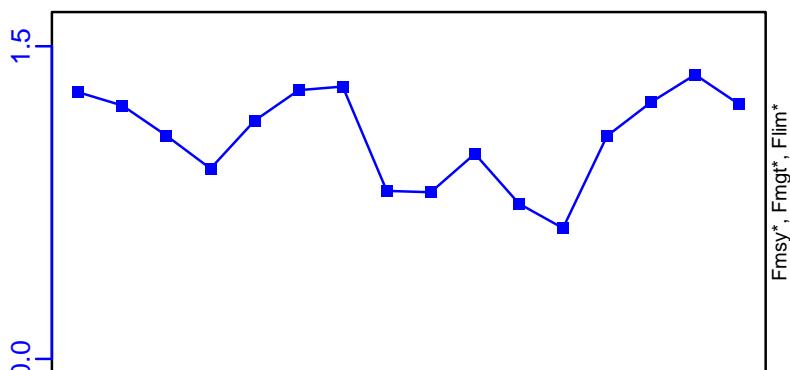
TN *



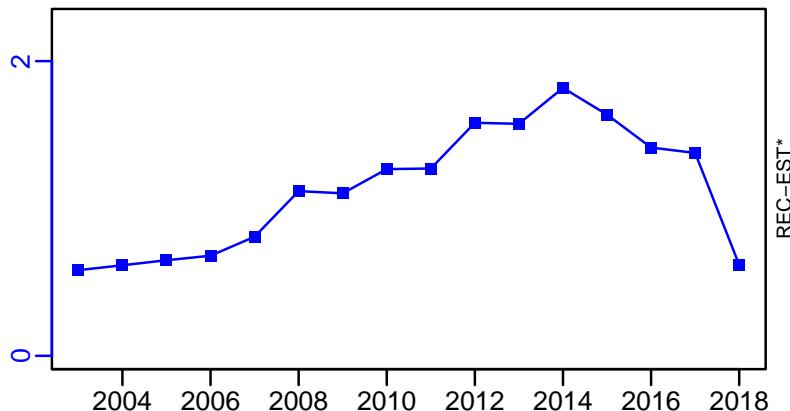
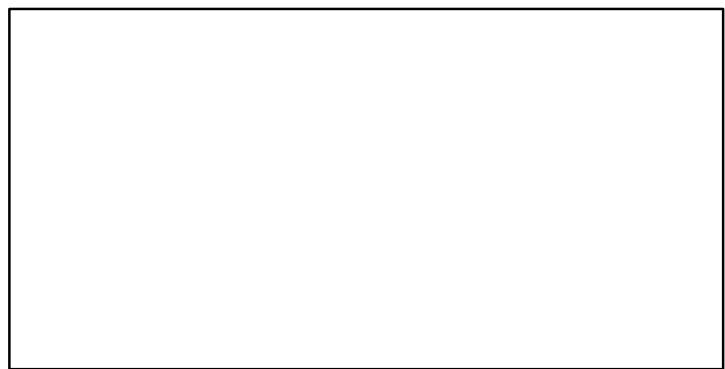
F-relative (1965–2018–ICESIMP2021)



ER*



R-relative (1965–2018–ICESIMP2021)

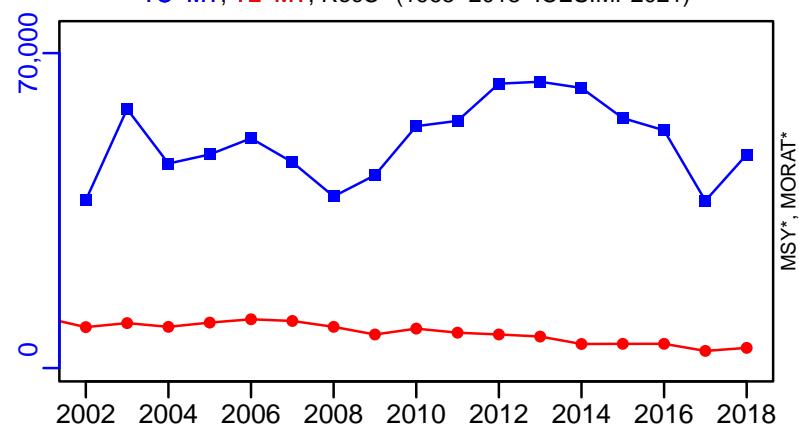


- Listed time series
- Target BRP
- MSY-based BRP
- Lim BRP
- Rec-Est
- * No Data

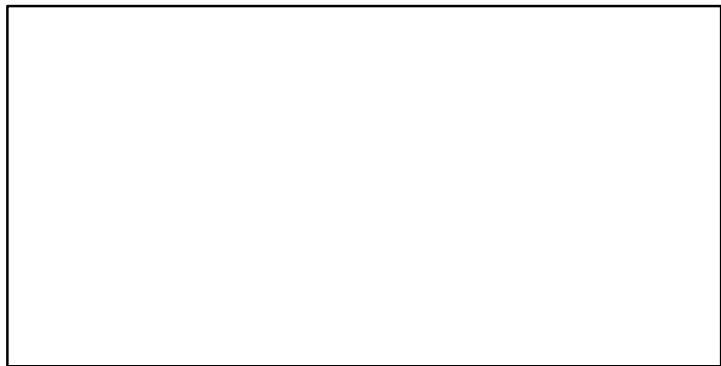
Dab ICES 3a–4 [DABIIIa–IV]

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

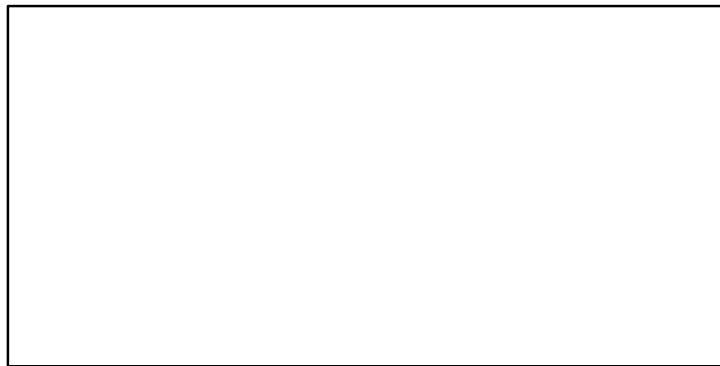
TAC*, Cpair*, Cadv*



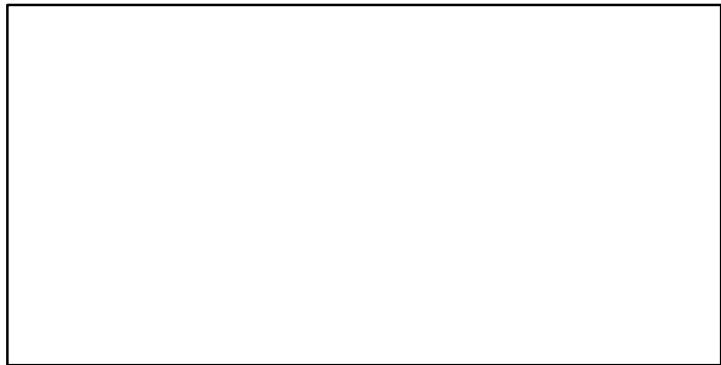
survB*



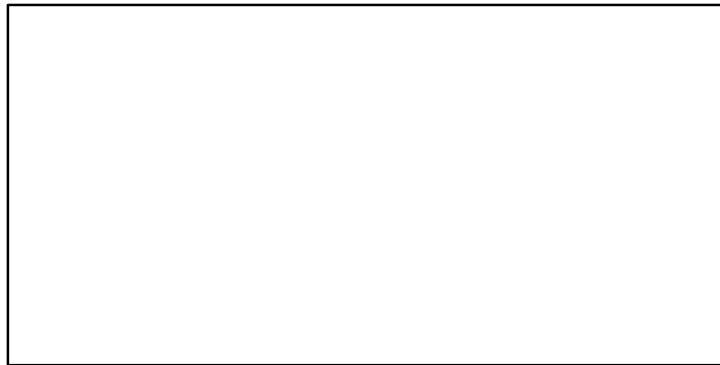
CPUE*



EFFORT*



CdivMSY*



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

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

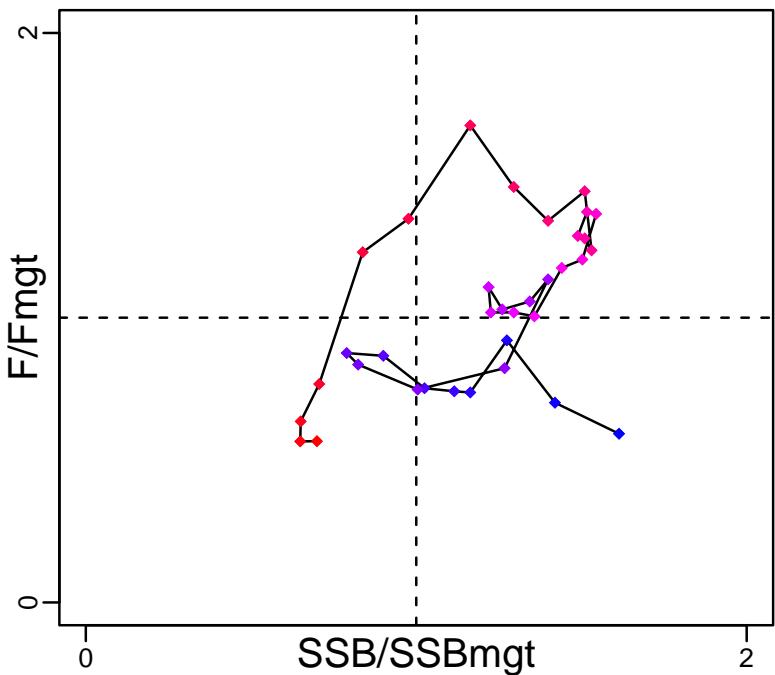
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSIVbc-VII-1985-2021-ICESIMP2021-2
Area	ICES 4bc-7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.171
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	14,439
Fmgt	Fmgt-1/yr	2021	0.171
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	10,300
Flim	Flim-1/yr	2021	0.254
ERlim	-	-	-

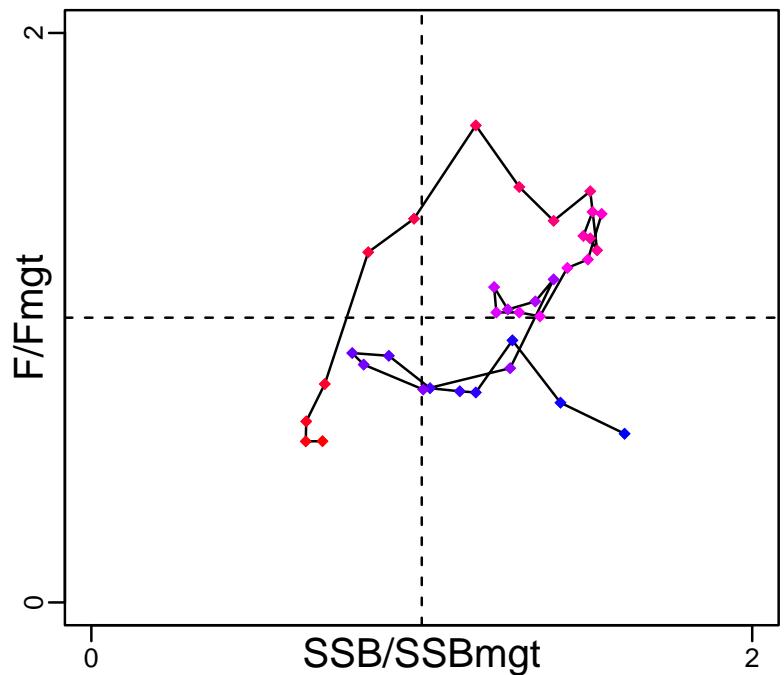
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2017	10,800	Both	-	
SSB	SSB-MT	2021	11,600	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	9,700,000	-	0	
F	F-1/yr	2021	0.109	-	-	
ER	ER-calc-ratio	2017	0.106	-	-	
TC	TC-MT	2018	1150			
TL	TL-MT	2021	1040			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.634			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.762			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.634			
ER/ERmgt	-	-	-			

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

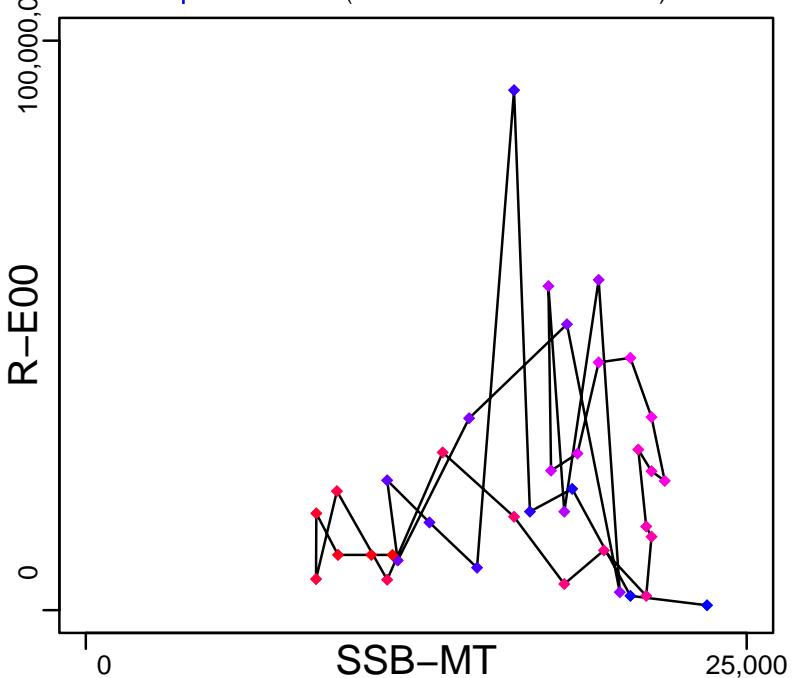
Kobe MSYpref (1985–2020–ICESIMP2021–2)



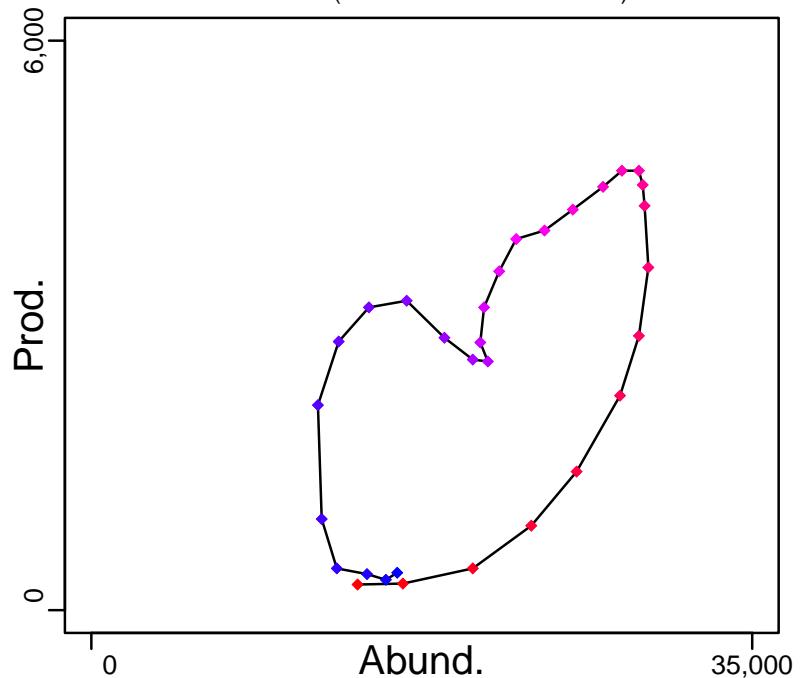
Kobe MGTpref (1985–2020–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



Production (1985–2017–ICESIMP2018)

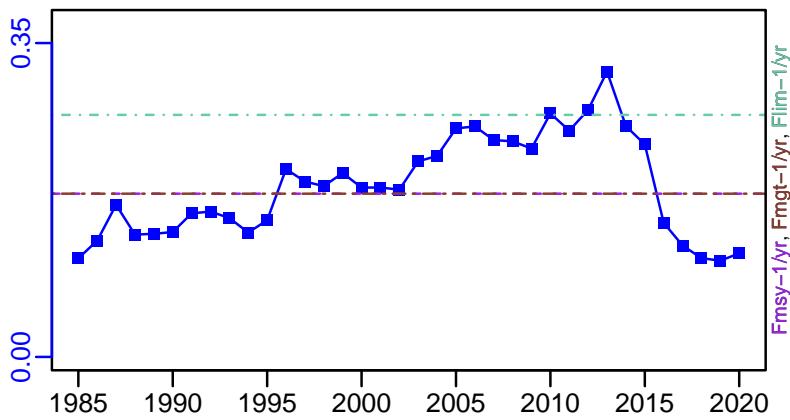
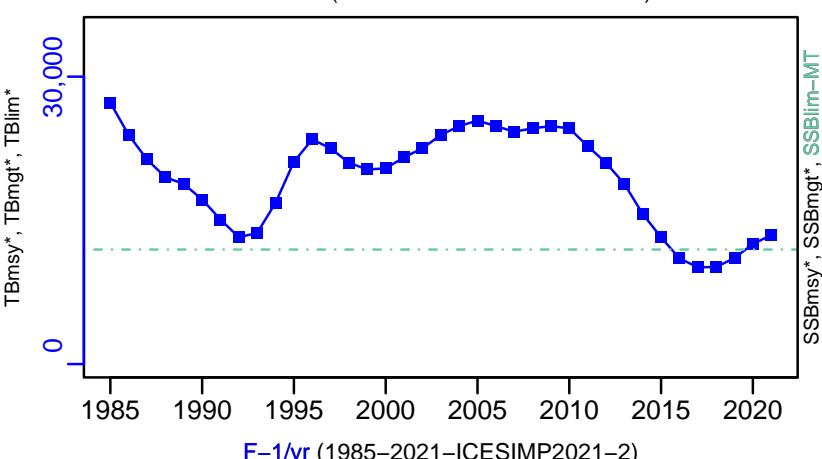
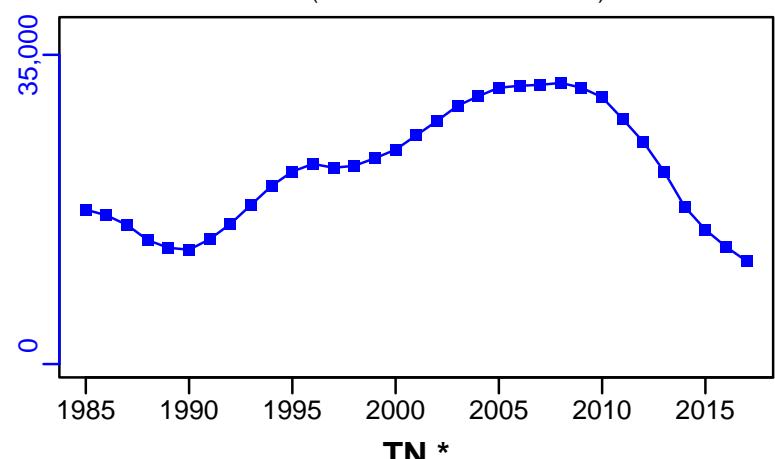


◆ Start Year ♦ End Year * No Data

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

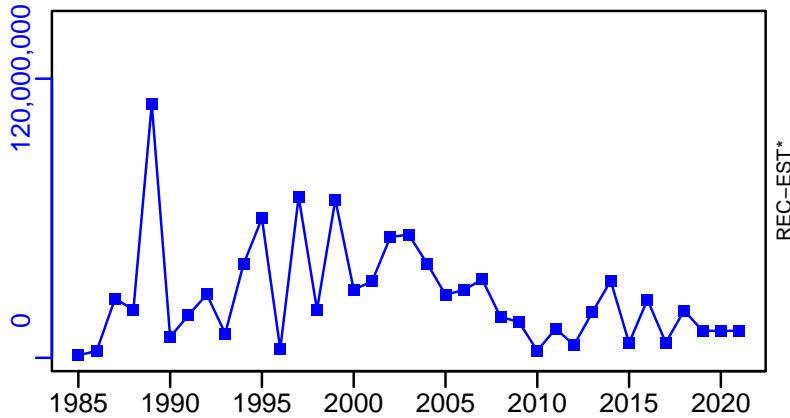
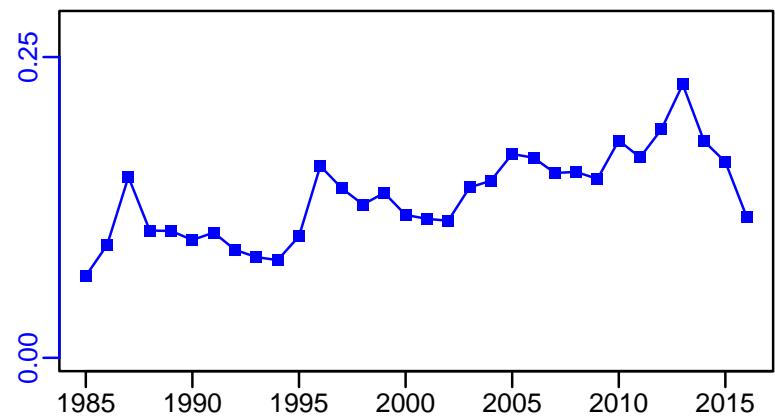
TB-MT (1985–2017–ICESIMP2018)

SSB-MT (1985–2021–ICESIMP2021–2)



ER-calc-ratio (1985–2017–ICESIMP2018)

R-E00 (1985–2021–ICESIMP2021–2)

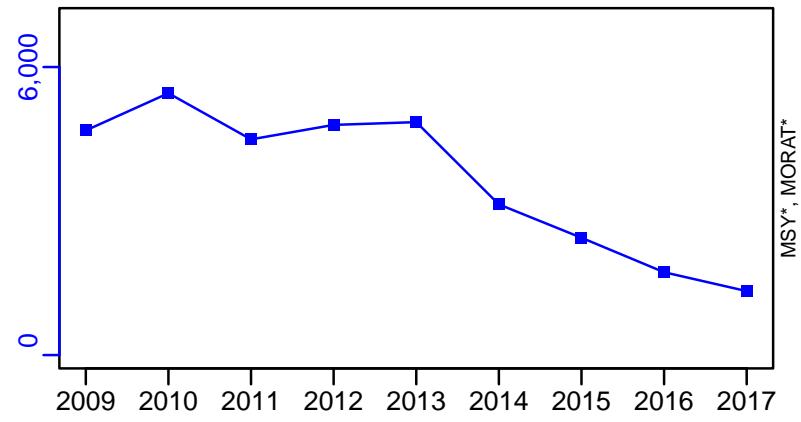


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

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

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

TAC*, Cpair*, Cadv*



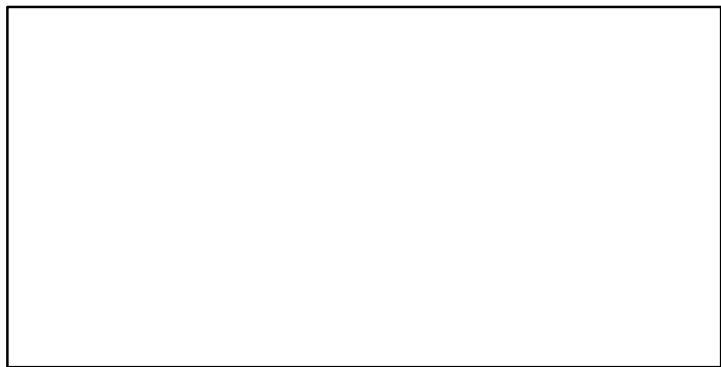
survB*



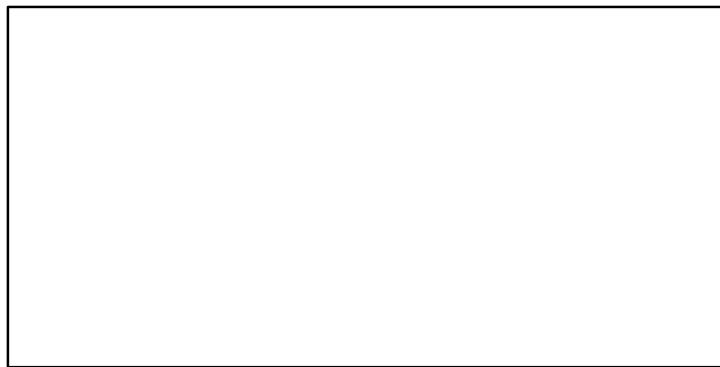
CPUE*



EFFORT*



CdivMSY*



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

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

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSVIa-VIIb-j-2000-2019-ICESIMP2021-2
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, 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	2015	2		
TL	TL-MT	2019	0.04		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

TB*



SSB*



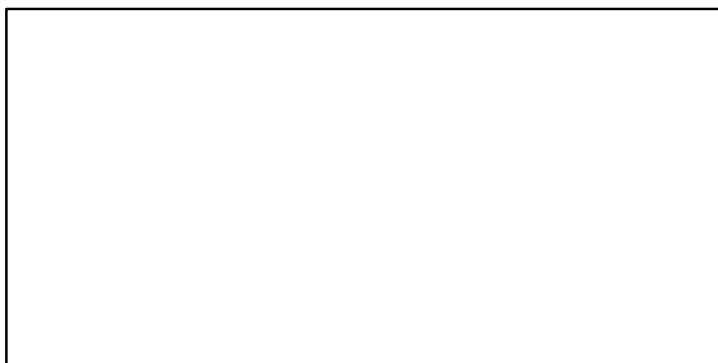
TN *



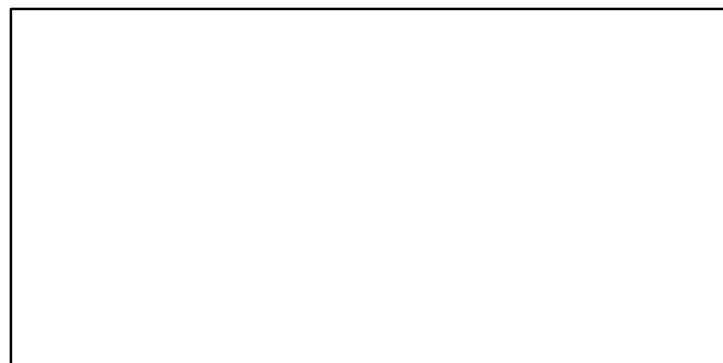
F*



ER*



Recruits*

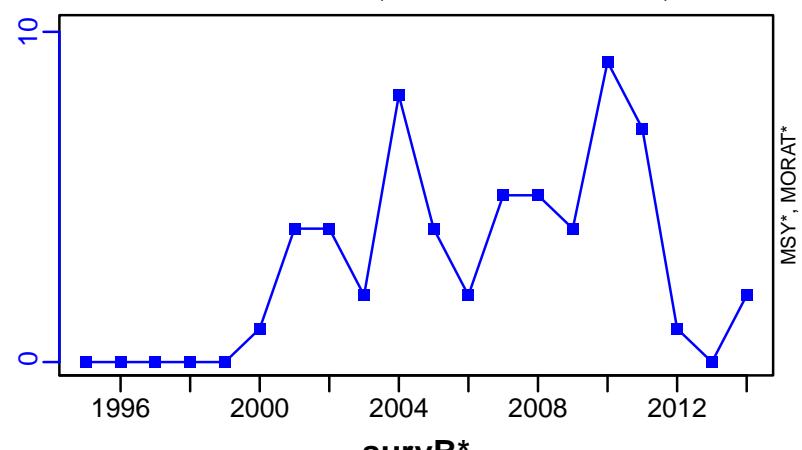


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

European seabass ICES 8ab [EBASSVIIlab]

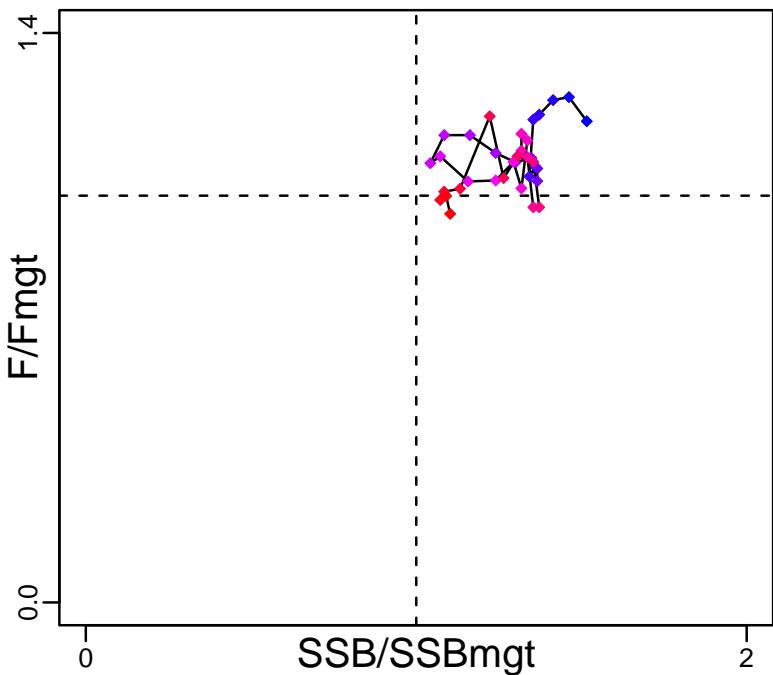
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIlab-1985-2021-ICESIMP2021-2
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2019, 2020, 2021, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.138
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	16,688
Fmgt	Fmgt-1/yr	2021	0.138
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	11,900
Flim	Flim-1/yr	2020	0.172
ERlim	-	-	-

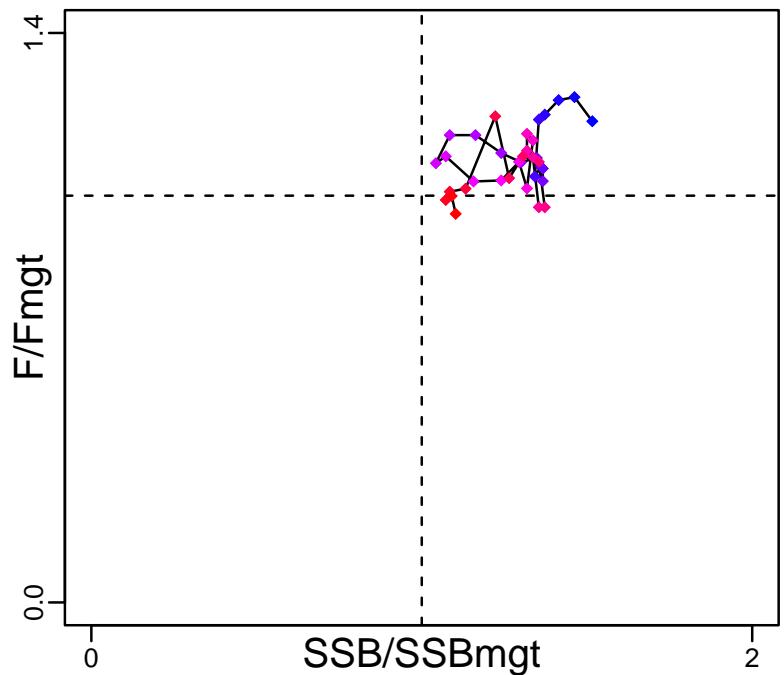
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2021	18,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	17,900,000	-	0
F	F-1/yr	2021	0.111	-	-
ER	-	-	-	-	-
TC	TC-MT	2021	2130		
TL	TL-MT	2021	2090		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.803		
ER/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.097		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.803		
ER/ERmgt	-	-	-		

European seabass ICES 8ab [EBASSVIIlab]

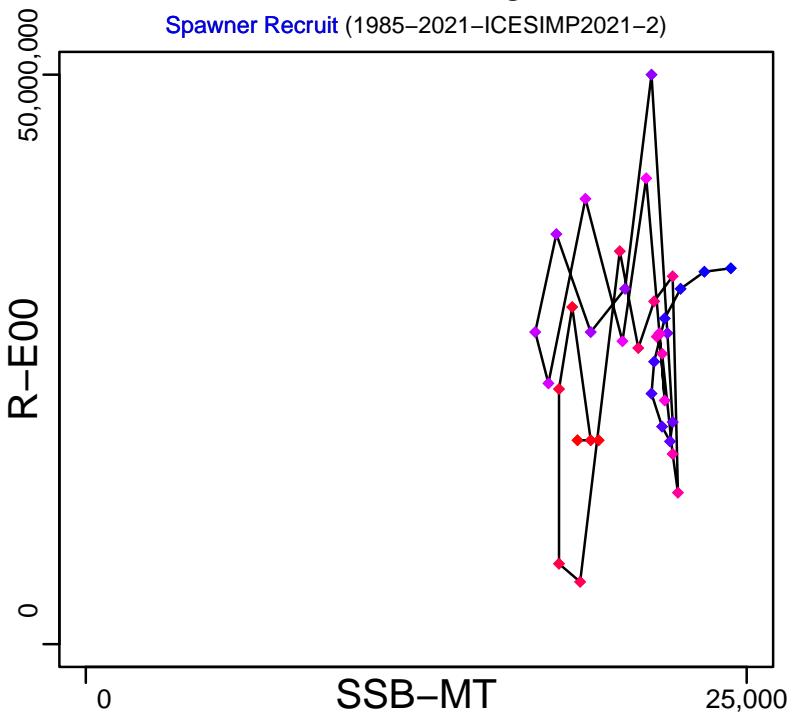
Kobe MSYpref (1985–2020–ICESIMP2021–2)



Kobe MGTpref (1985–2020–ICESIMP2021–2)



Spawner Recruit (1985–2021–ICESIMP2021–2)



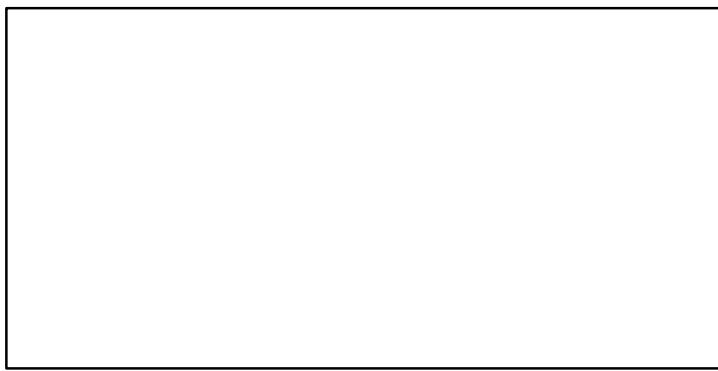
Production*



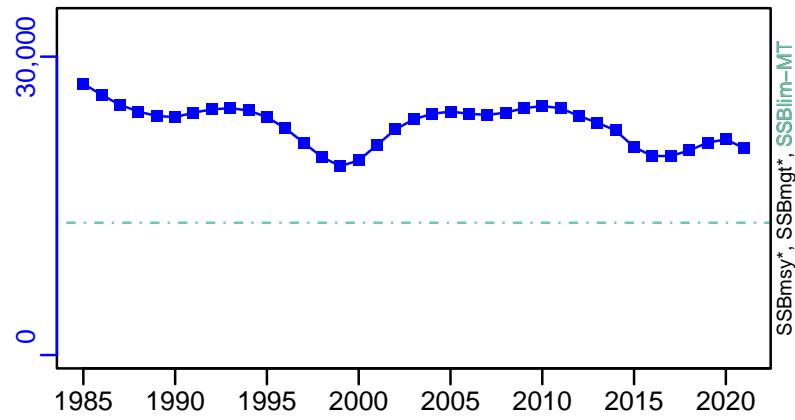
◆ Start Year ◆ End Year * No Data

European seabass ICES 8ab [EBASSVIIlab]

TB*



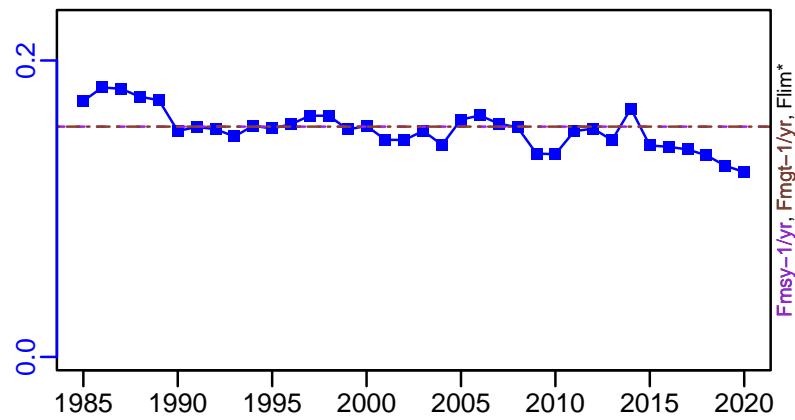
SSB-MT (1985–2021–ICESIMP2021–2)



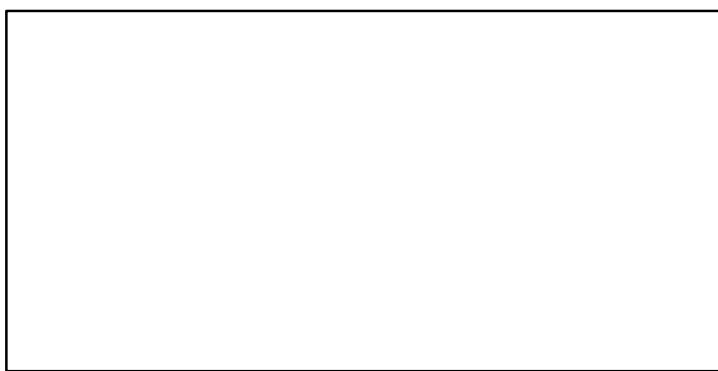
TN *



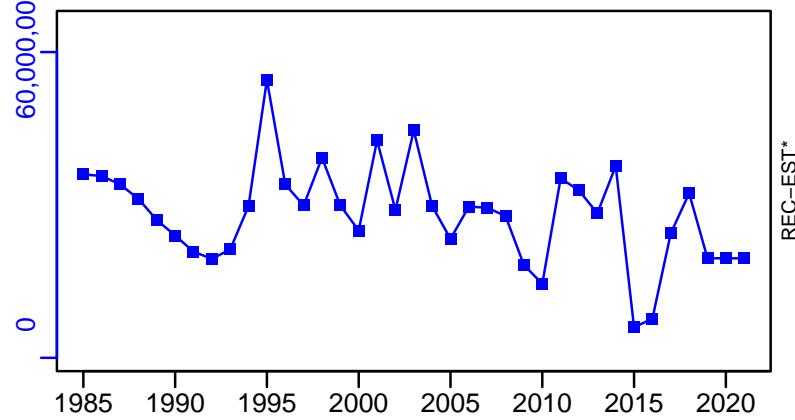
F-1/yr (1985–2021–ICESIMP2021–2)



ER*



R-E00 (1985–2021–ICESIMP2021–2)

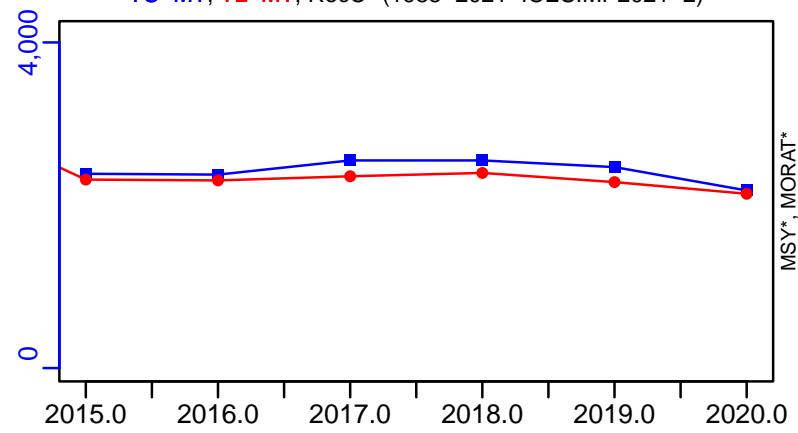


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

European seabass ICES 8ab [EBASSVIIlab]

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

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

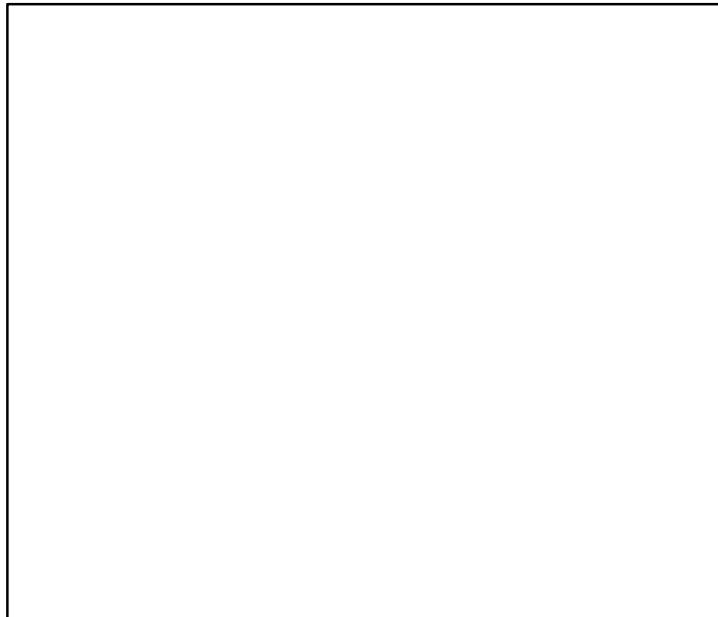
European seabass ICES 8c-9a [EBASSVIIIC-IXa]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIC-IXa-1978-2020-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 2018, 2020

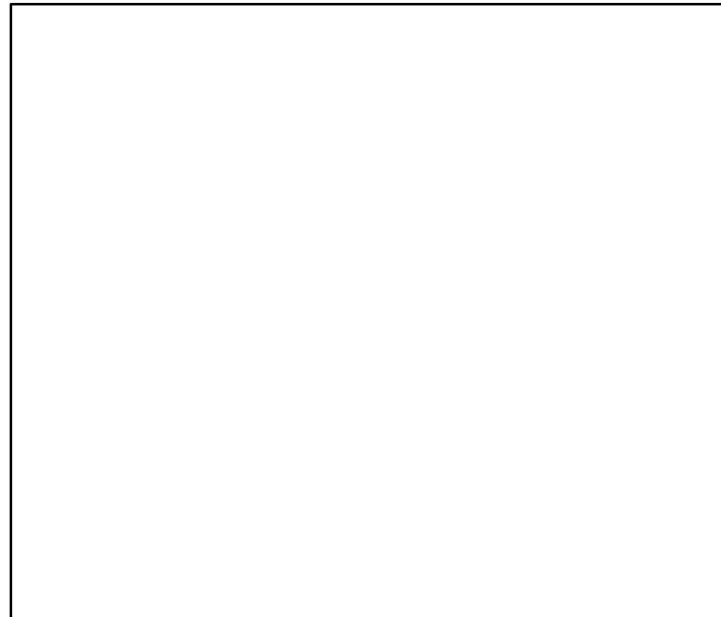
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	917		
TL	TL-MT	2020	896		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

TB*



SSB*



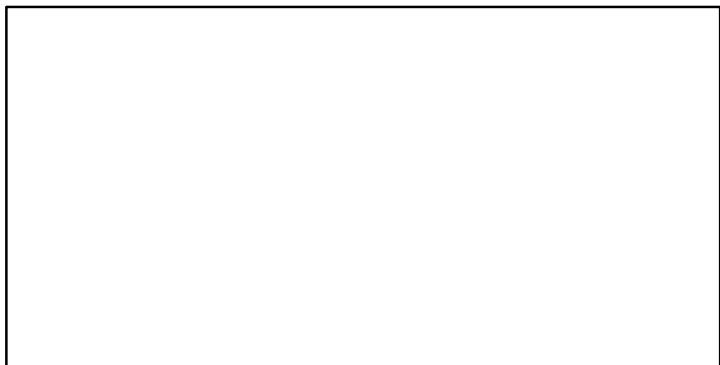
TN *



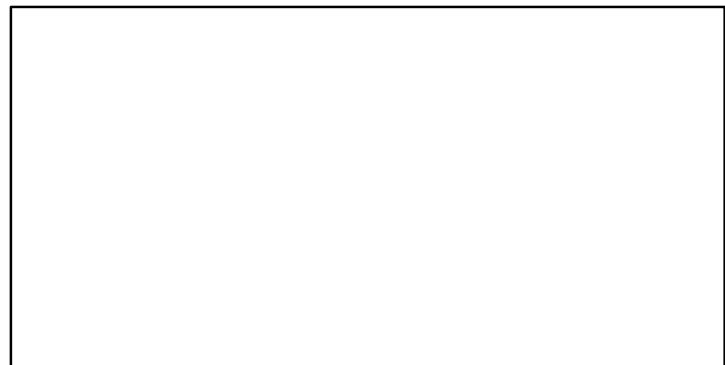
F*



ER*



Recruits*

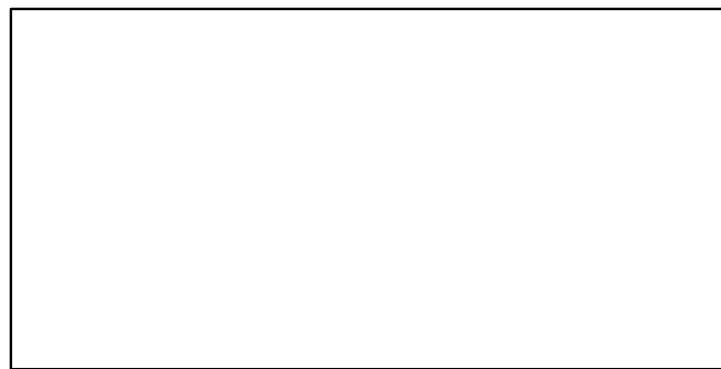
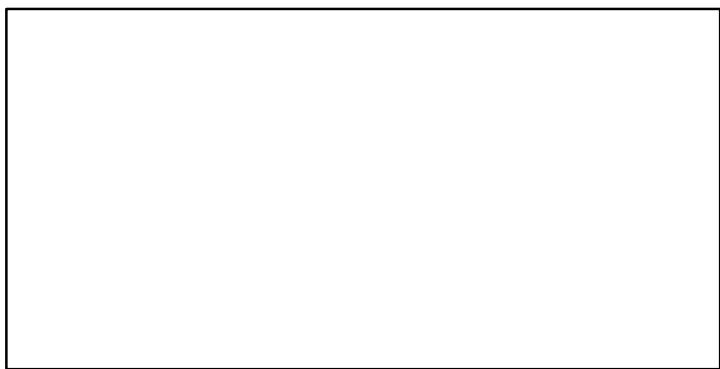
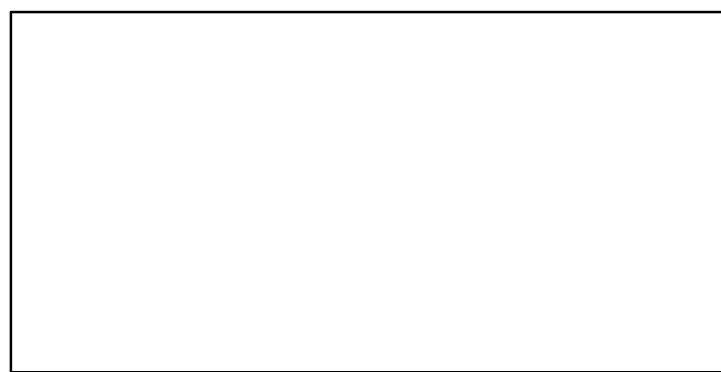
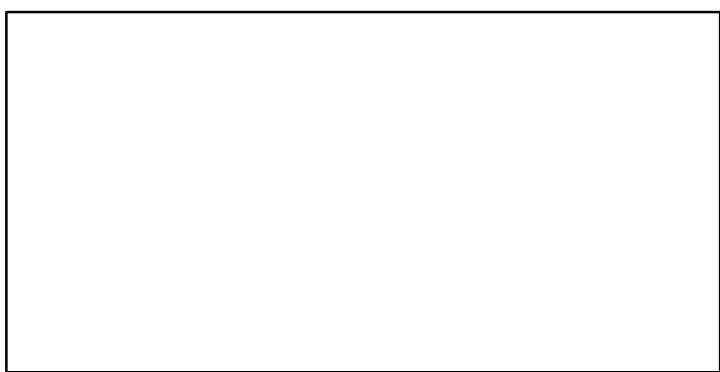
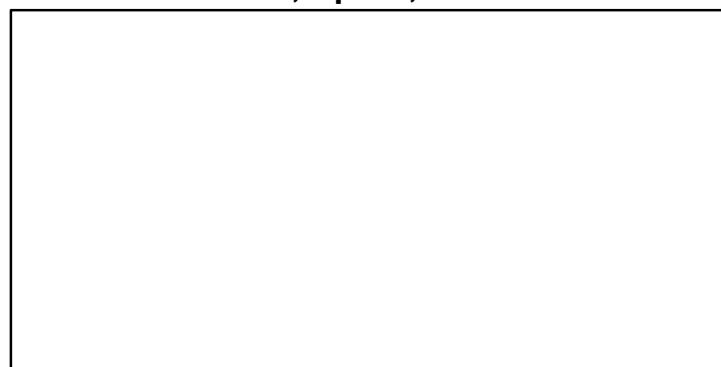
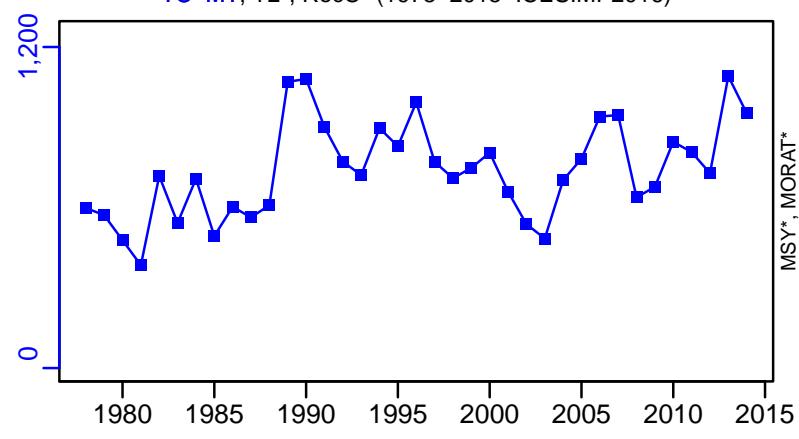


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



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

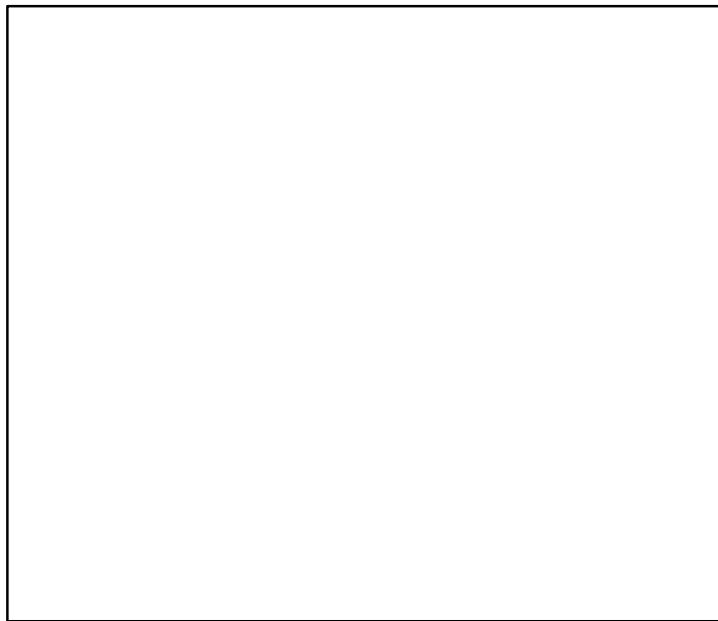
European flounder Subdivisions 22-23 [EFLOUN2223]

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

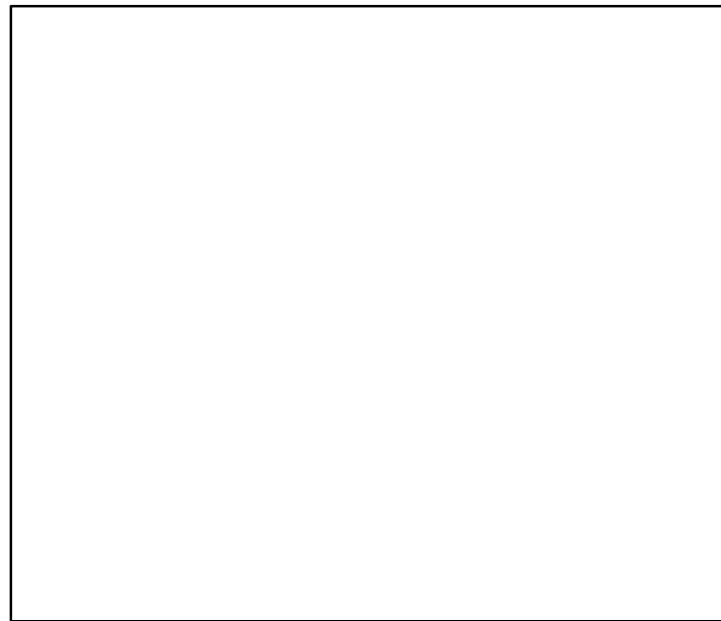
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

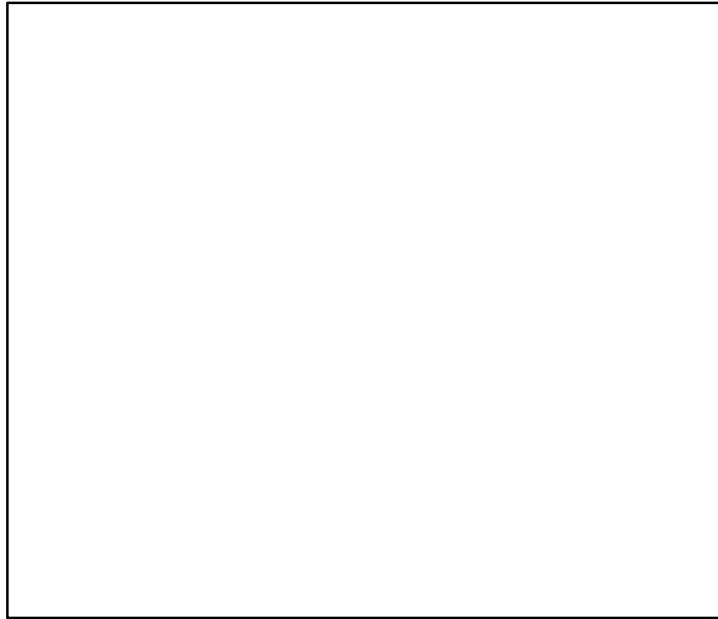
Kobe MSY*



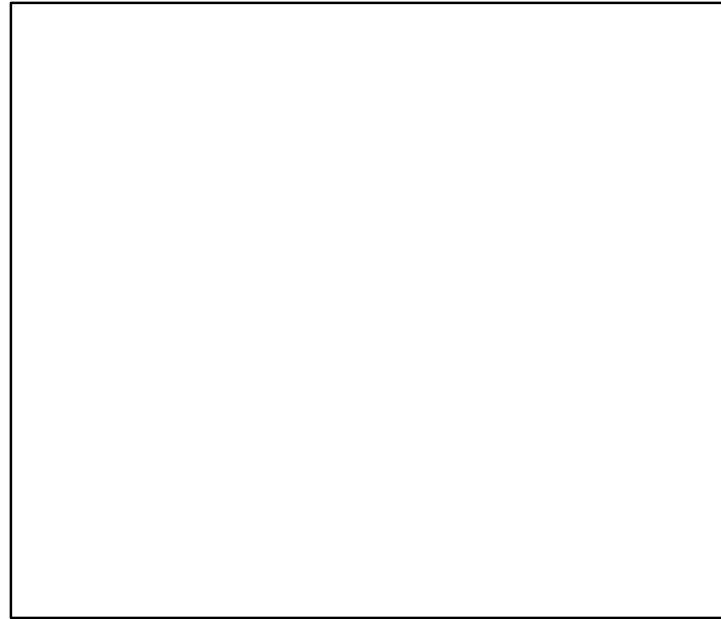
Kobe MGT*



Spawner Recruit*



Production*



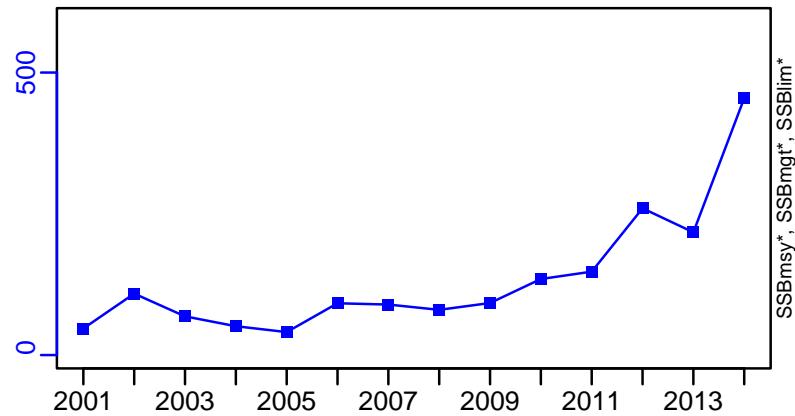
◆ Start Year ♦ End Year * No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

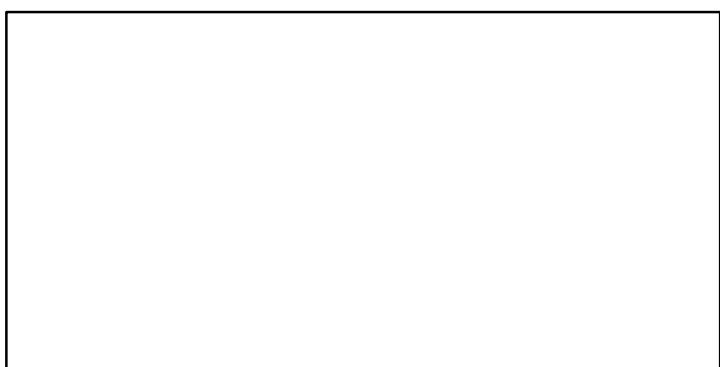
TB*



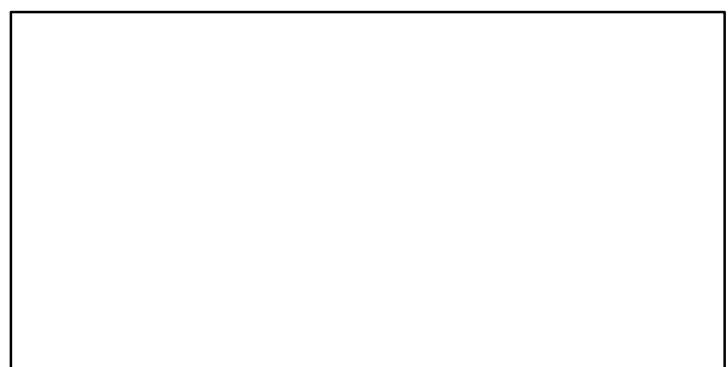
SSB-index (1973–2014–ICESIMP2018)



TN *



F*



ER*



Recruits*

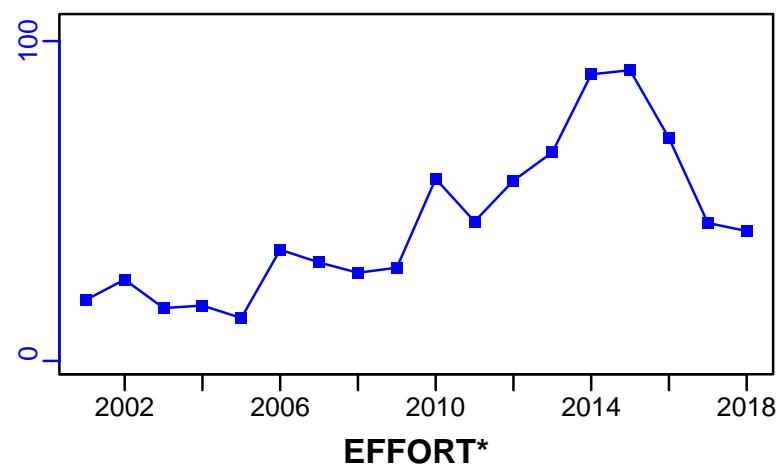
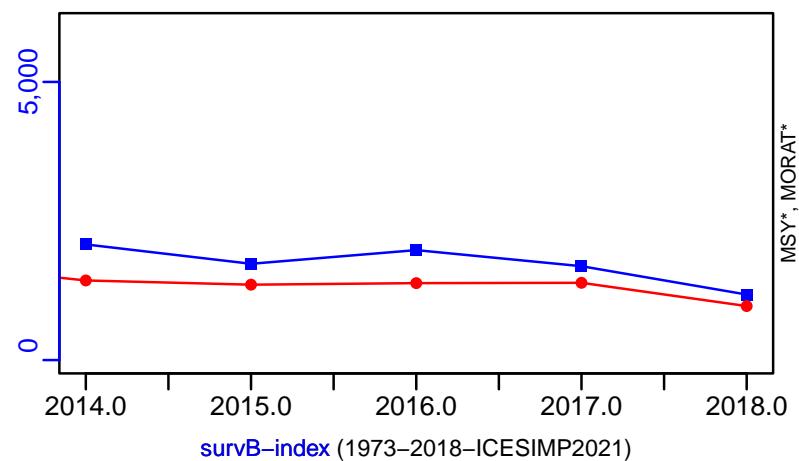


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

European flounder Subdivisions 22–23 [EFLOUN2223]

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

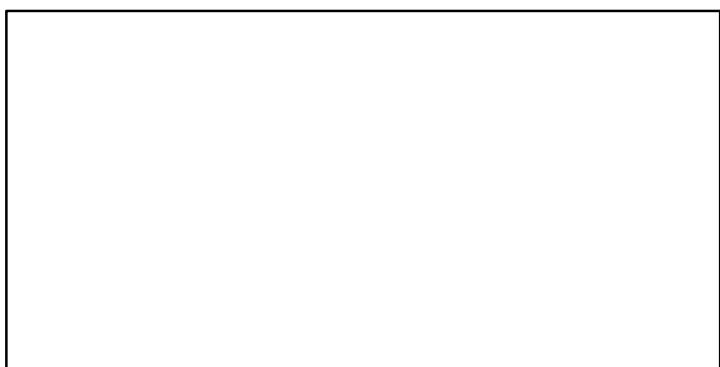
TAC*, Cpair*, Cadv*



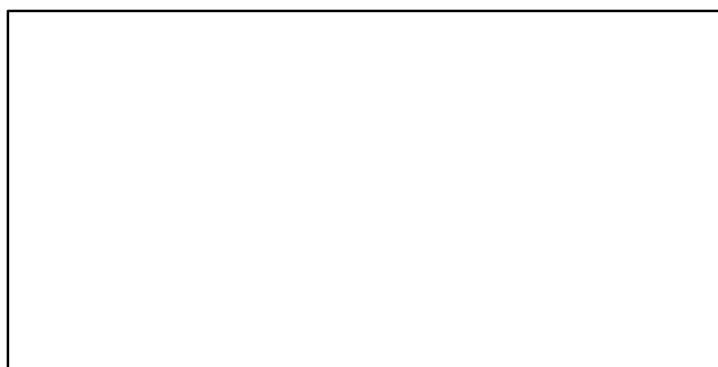
CPUE*



EFFORT*



CdivMSY*



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

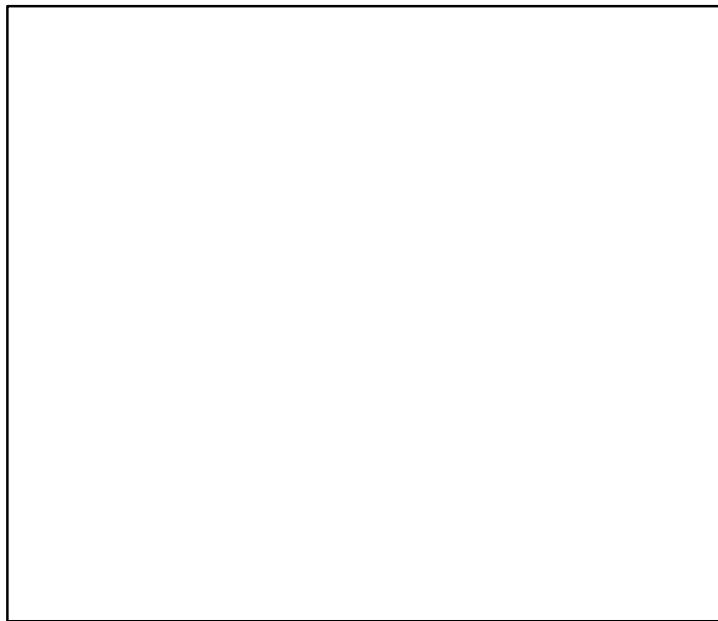
European flounder Subdivisions 24-25 [EFLOUN2425]

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

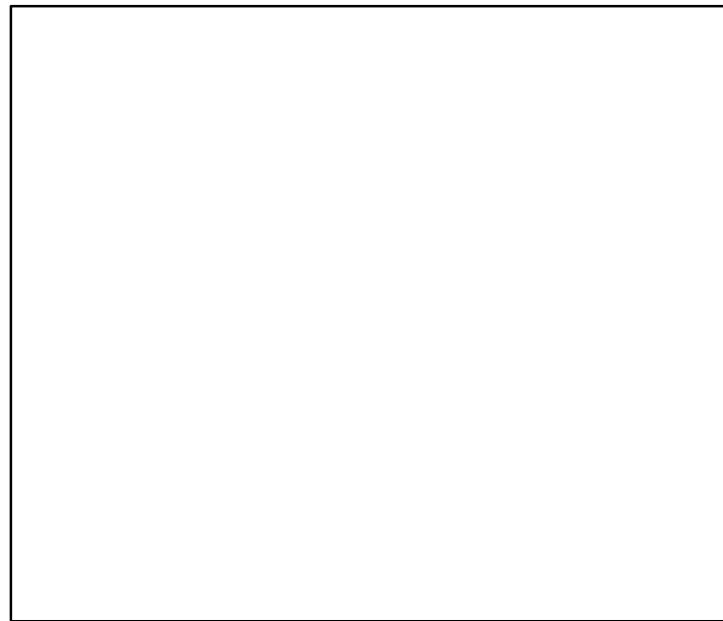
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

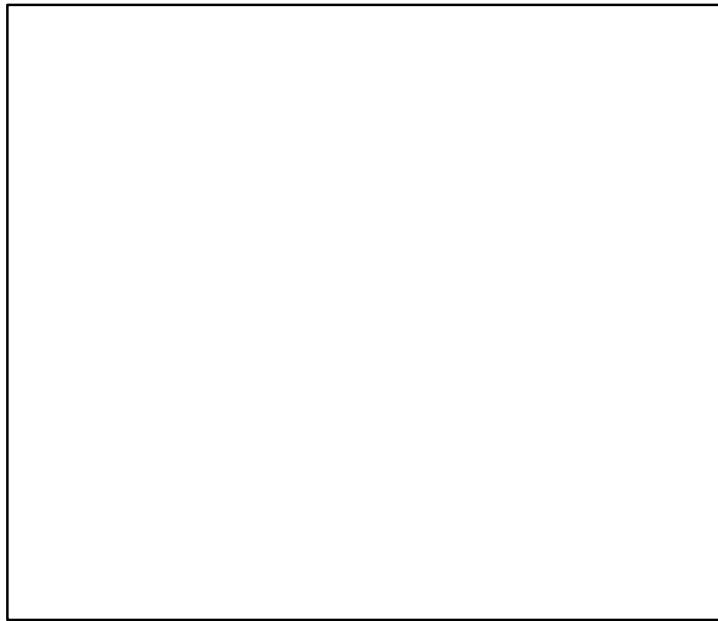
Kobe MSY*



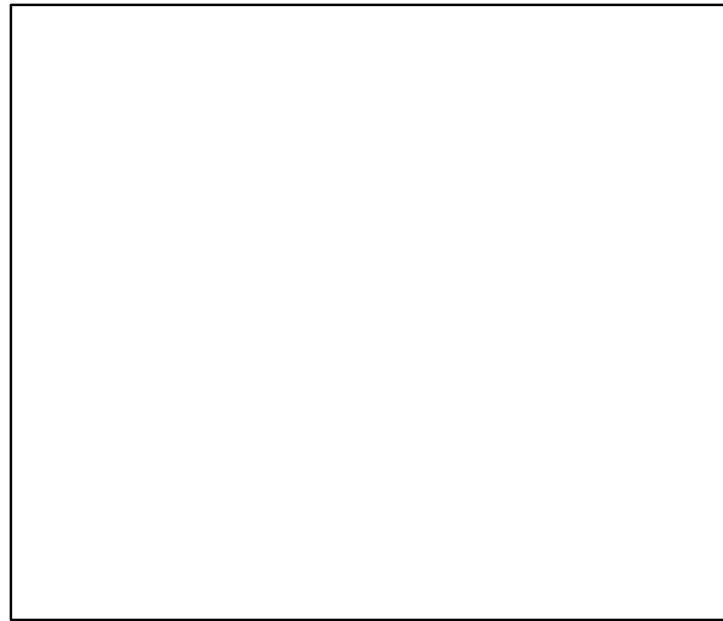
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

TB*



SSB*



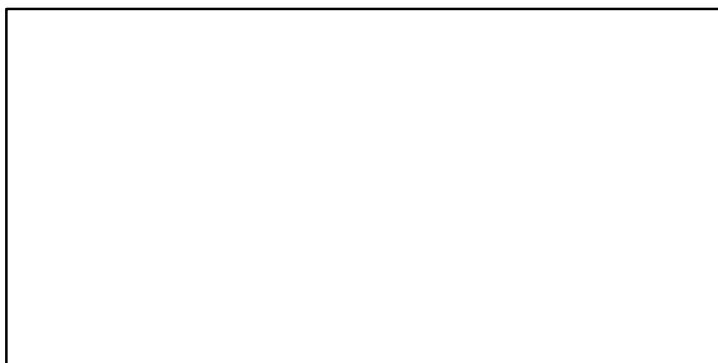
TN *



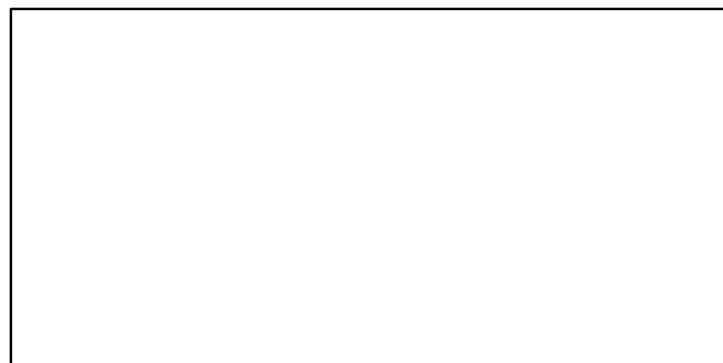
F*



ER*



Recruits*

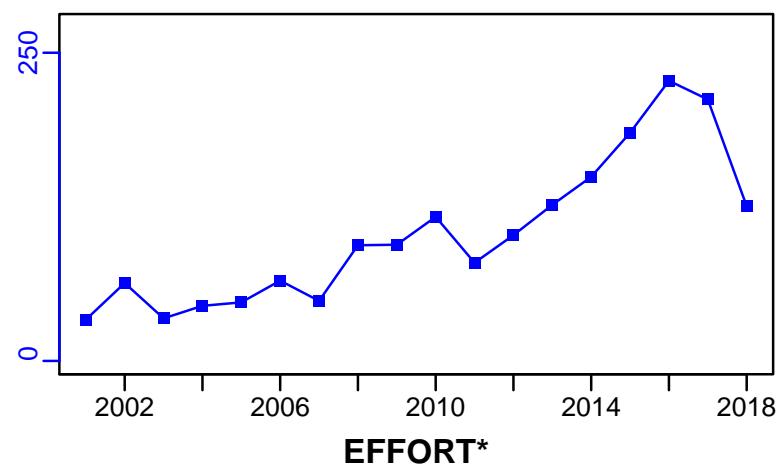
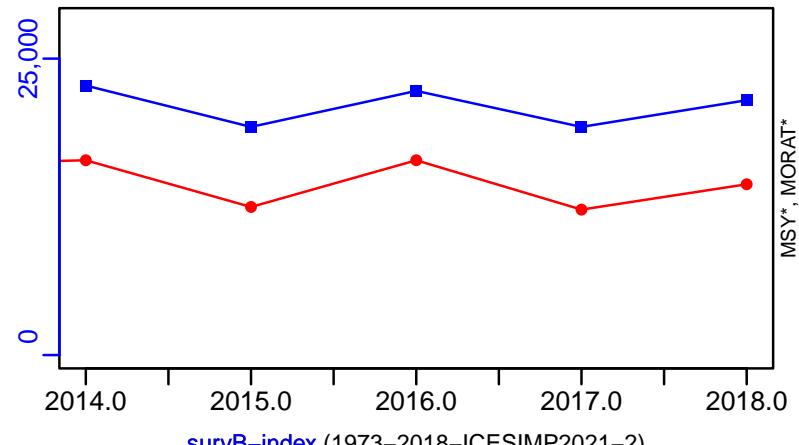


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

European flounder Subdivisions 24–25 [EFLOUN2425]

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

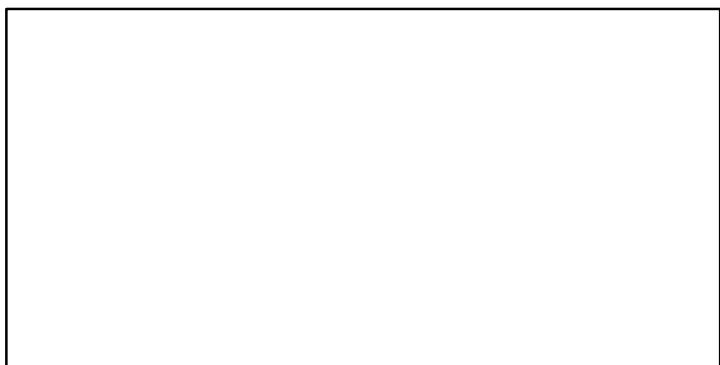
TAC*, Cpair*, Cadv*



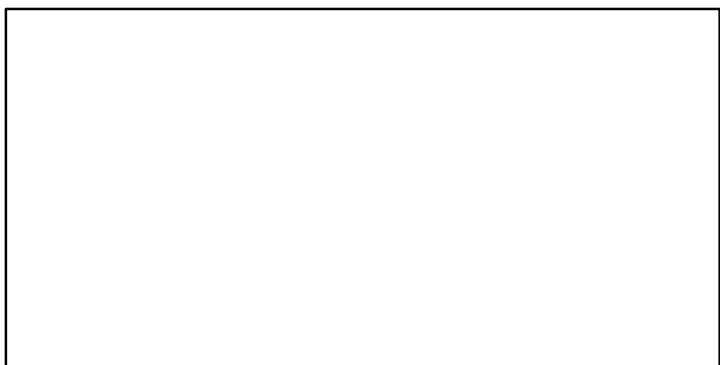
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ■ 1st listed time series ● 2nd listed time series | <ul style="list-style-type: none"> ▲ 3rd listed time series - - - MSY | <ul style="list-style-type: none"> — MORAT * No Data |
|--|---|--|

European flounder Subdivisions 26-28 [EFLOUN26-28]

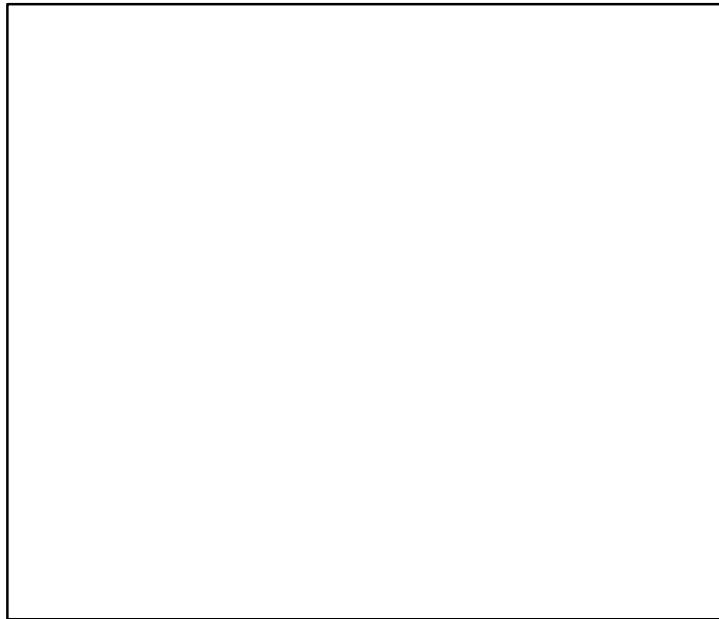
Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN26-28-1996-2016-ICESIMP2018
Area	Subdivisions 26-28
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016

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

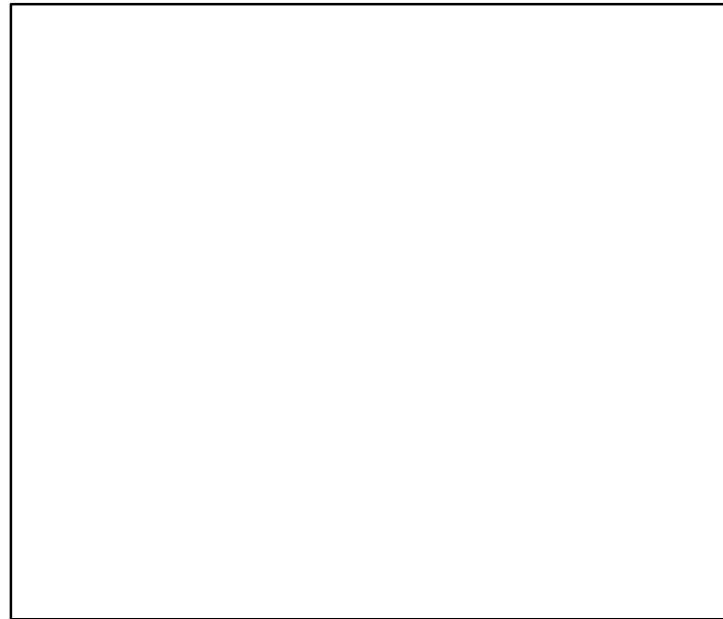
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	4440		
TL	TL-MT	2016	4440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

European flounder Subdivisions 26–28 [EFLOUN26–28]

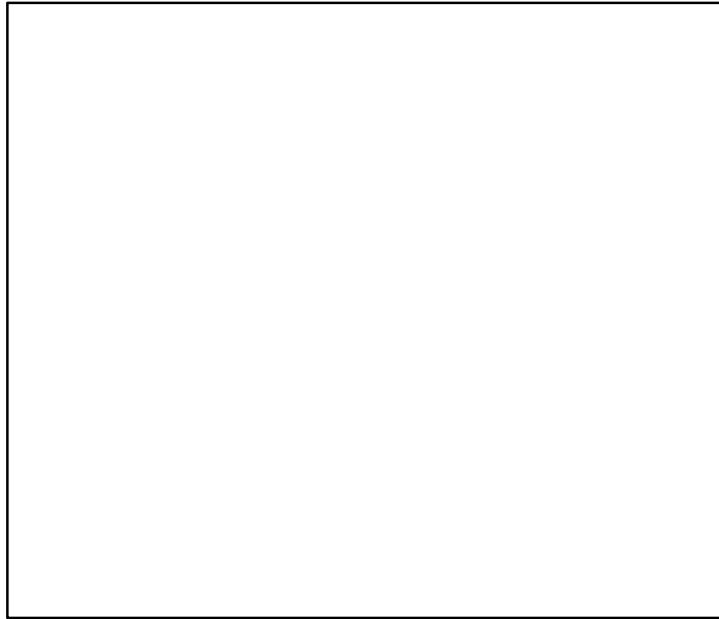
Kobe MSY*



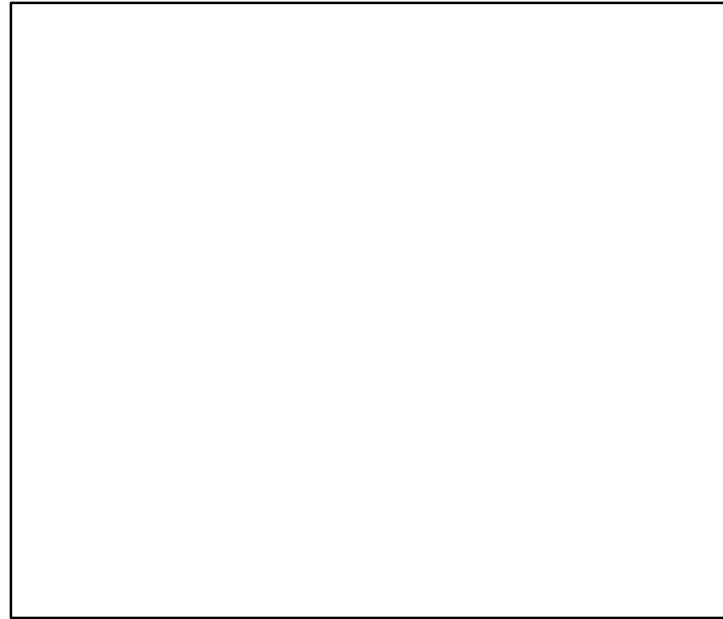
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

European flounder Subdivisions 26–28 [EFLOUN26–28]

TB*



SSB*



TN *



F*



ER*



Recruits*

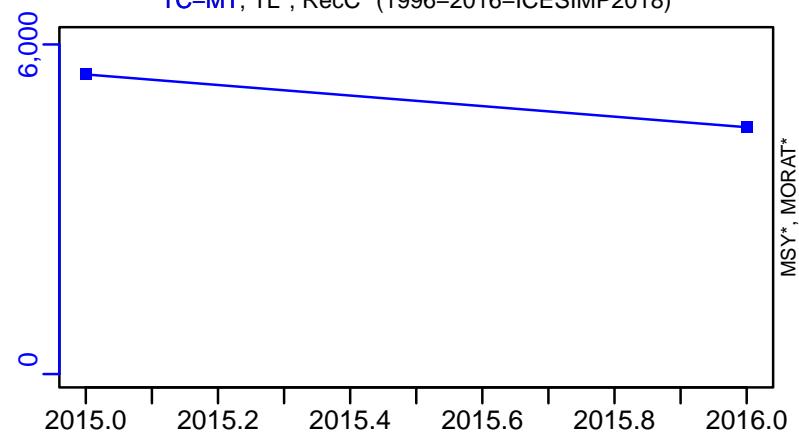


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

European flounder Subdivisions 26–28 [EFLOUN26–28]

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

TAC*, Cpair*, Cadv*



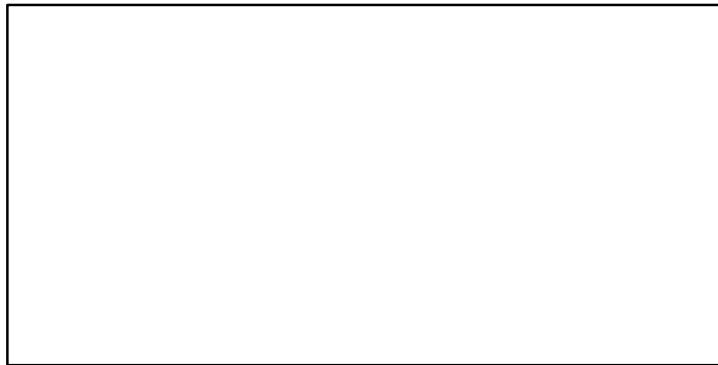
survB*



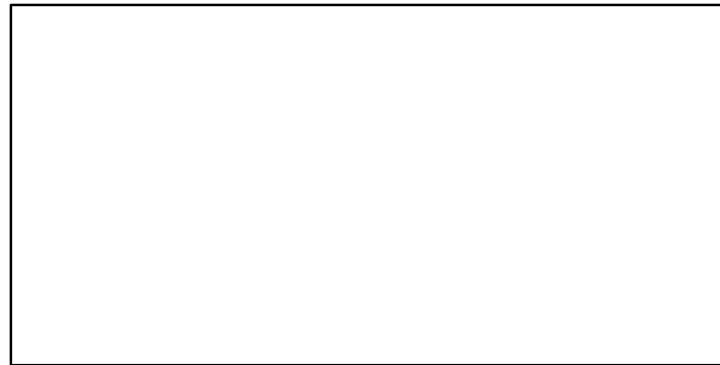
CPUE*



EFFORT*



CdivMSY*



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

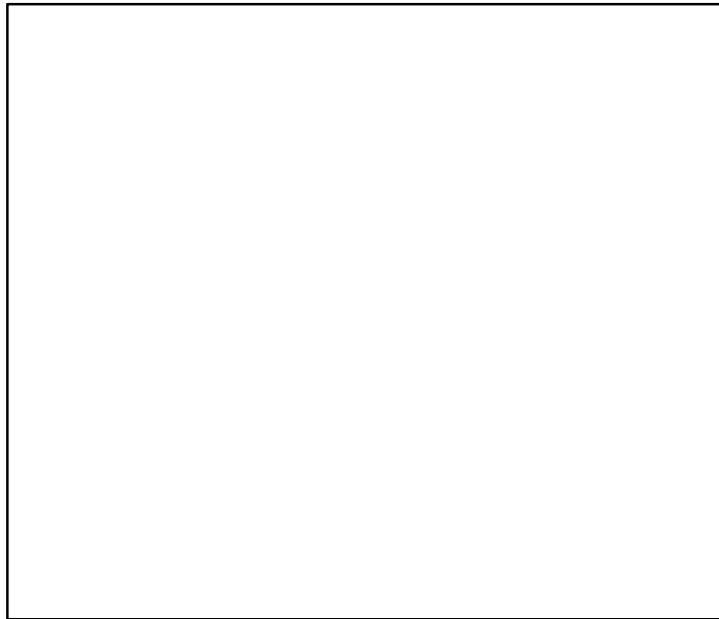
European flounder Subdivisions 27 and 29-32 [EFLOUN27-2932]

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

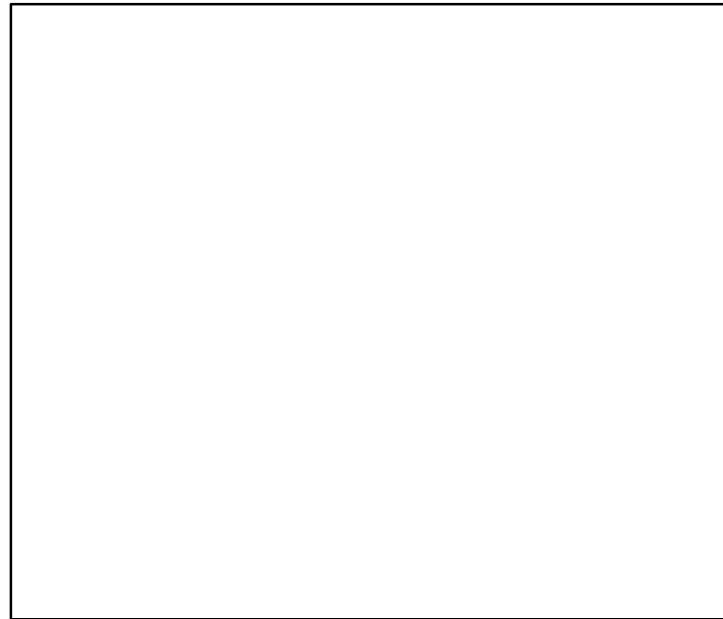
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

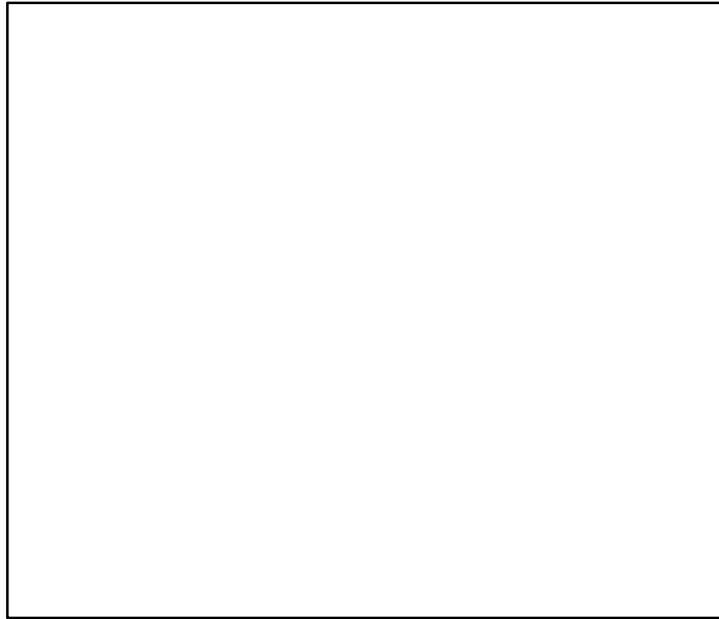
Kobe MSY*



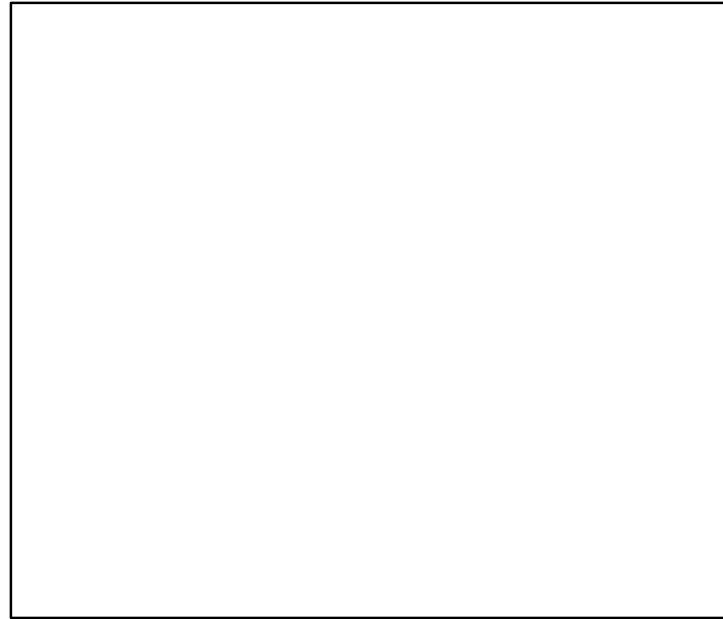
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

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

TB*



SSB*



TN *



F*



ER*



Recruits*

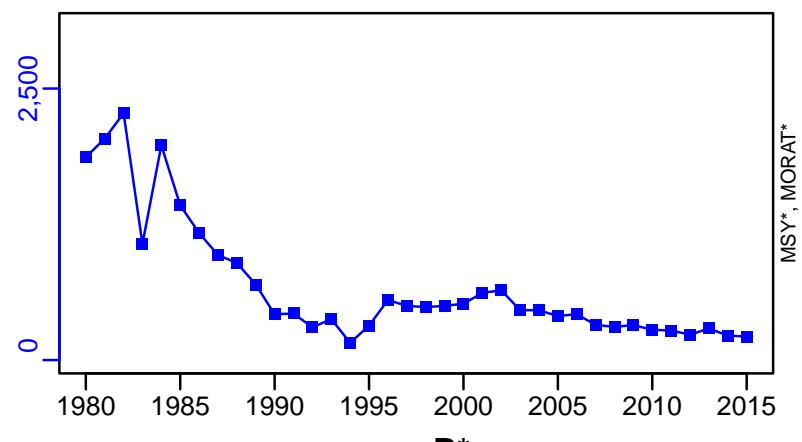


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



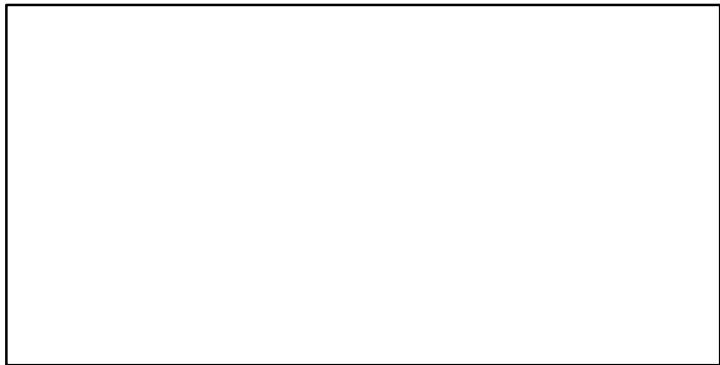
survB*



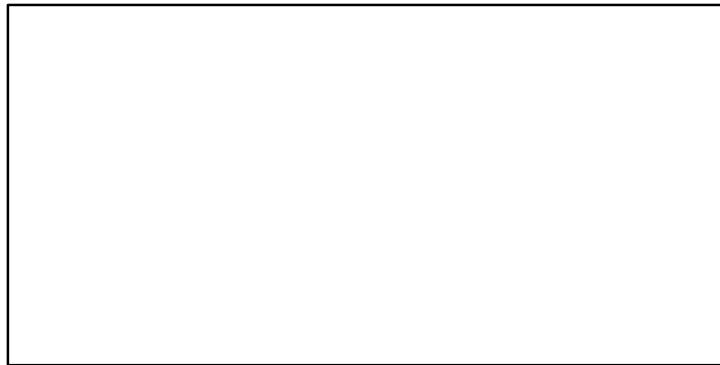
CPUE*



EFFORT*



CdivMSY*



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

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

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

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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

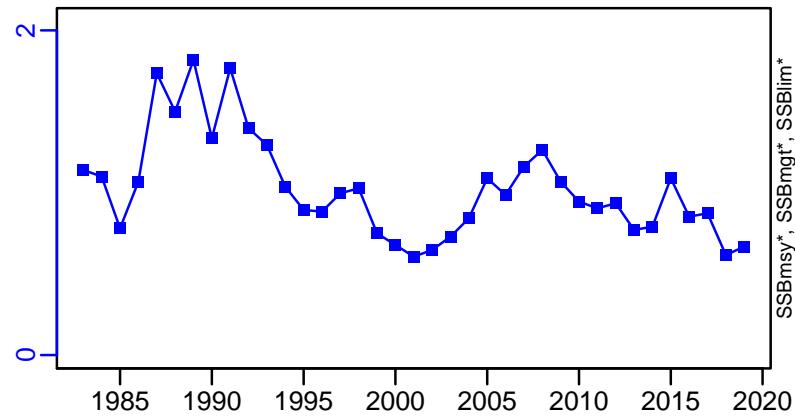
◆ Start Year ♦ End Year * No Data

European flounder ICES 3a–4 [EFLOUNIIla–IV]

TB*



SSB-index (1950–2019–ICESIMP2021)

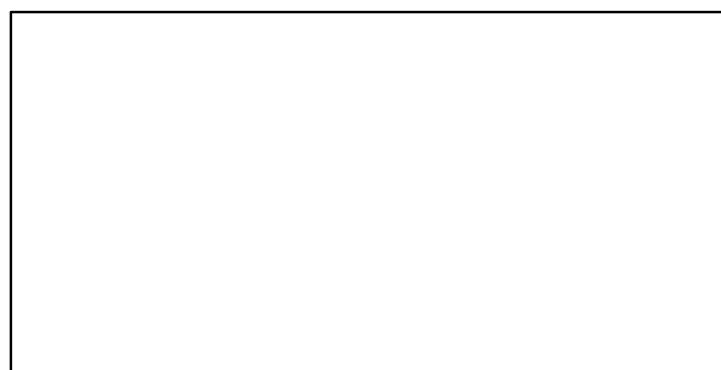


ssBmsy*, ssBmgt*, ssBlim*

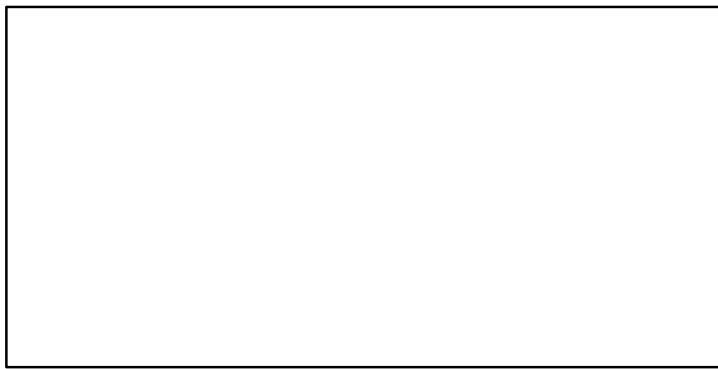
TN *



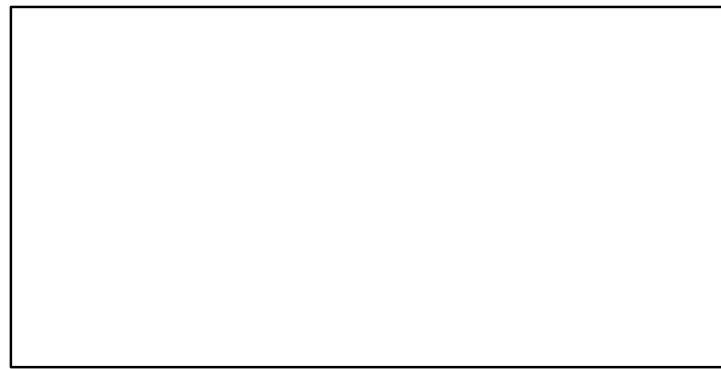
F*



ER*



Recruits*

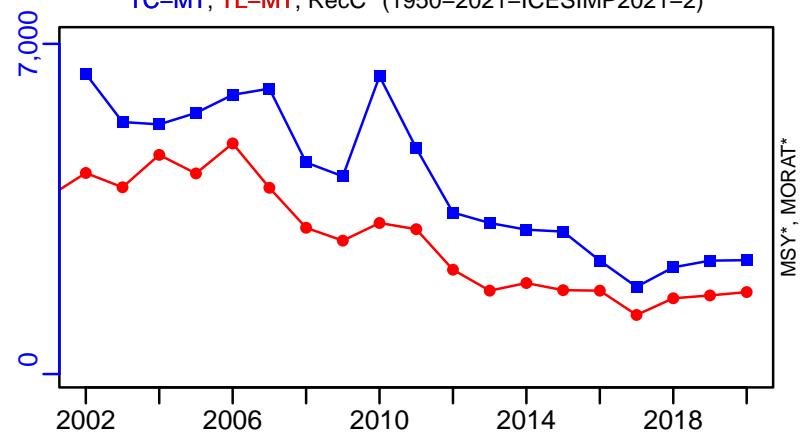


- Listed time series
- Target BRP
- Rec-Est
- MSY-based BRP
- Lim BRP
- * No Data

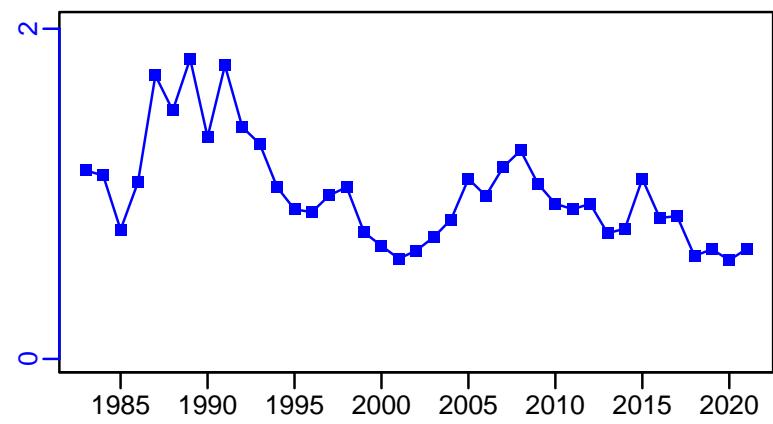
European flounder ICES 3a–4 [EFLOUNIIla–IV]

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

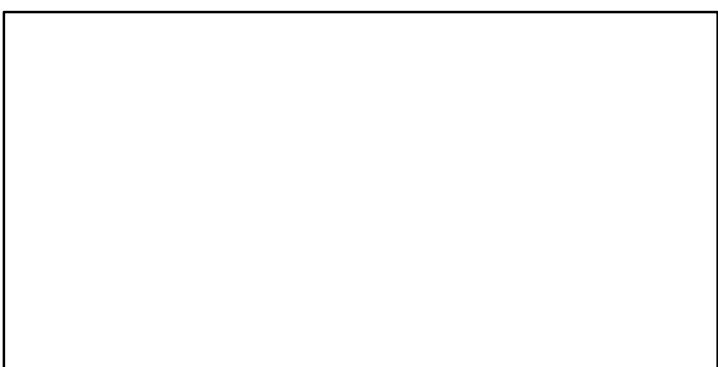
TAC*, Cpair*, Cadv*



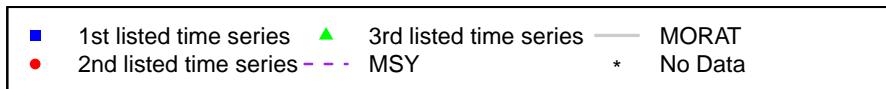
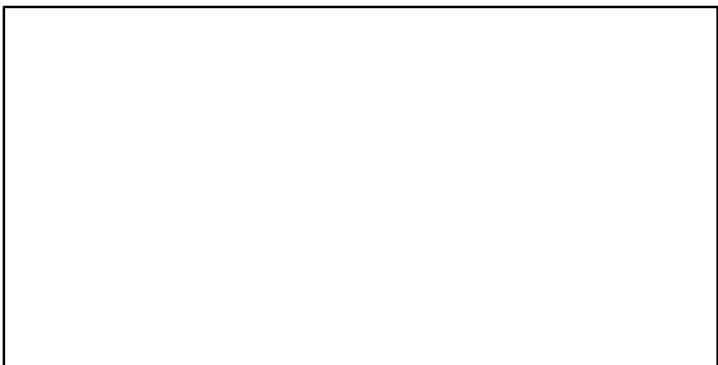
survB-MT (1950–2021–ICESIMP2021–2)



CPUE*



CdivMSY*



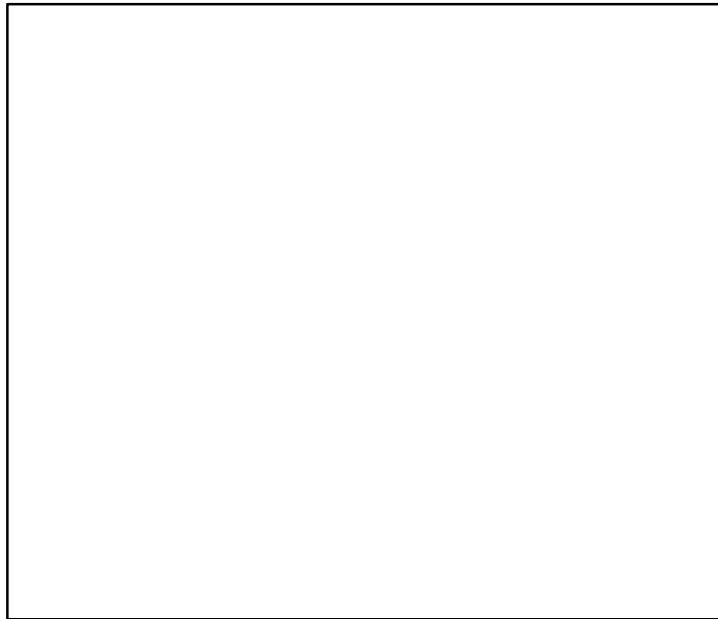
European pollack ICES 3a-4 [EPOLLIV-IIIa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGNSSK-EPOLLIV-IIIa-1977-2020-ICESIMP2021-2
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017, 2020

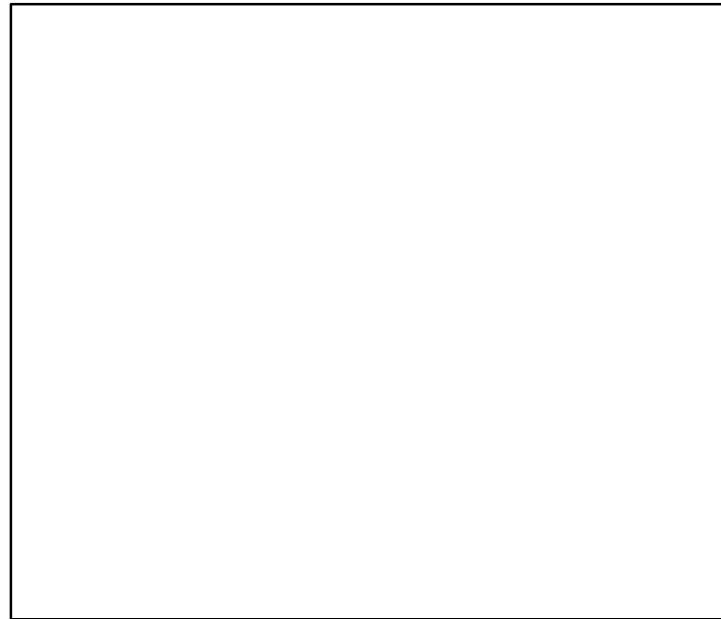
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	1910		
TL	TL-MT	2020	2620		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

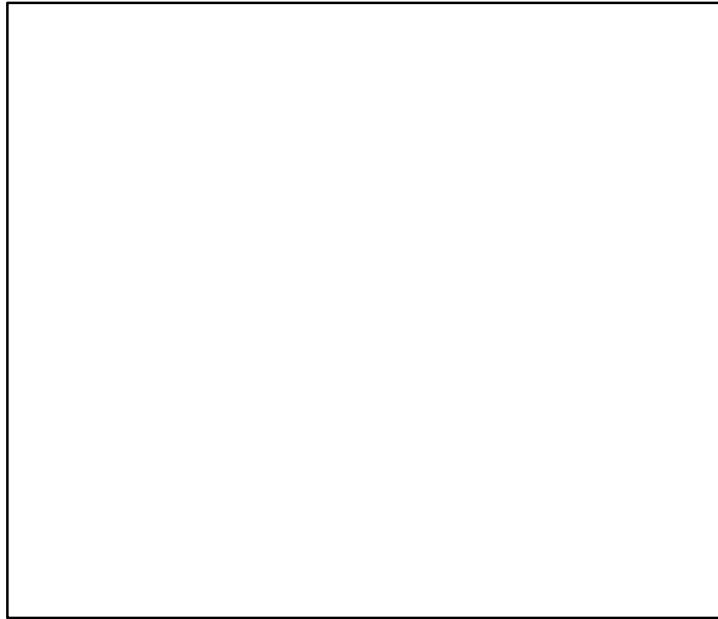
Kobe MSY*



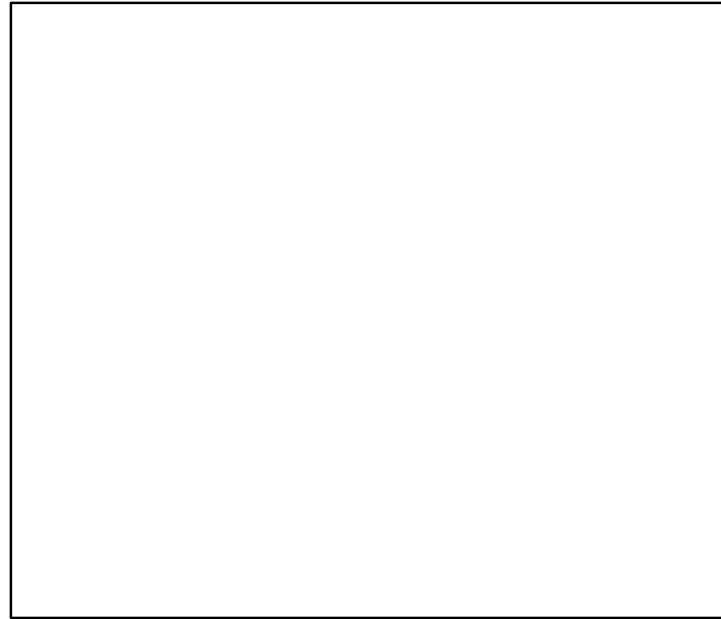
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

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

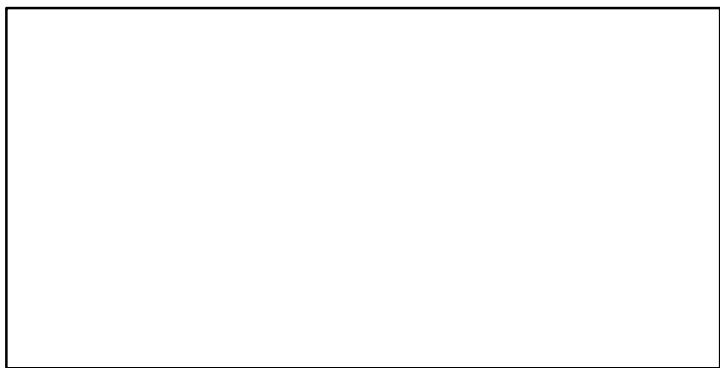
TB*



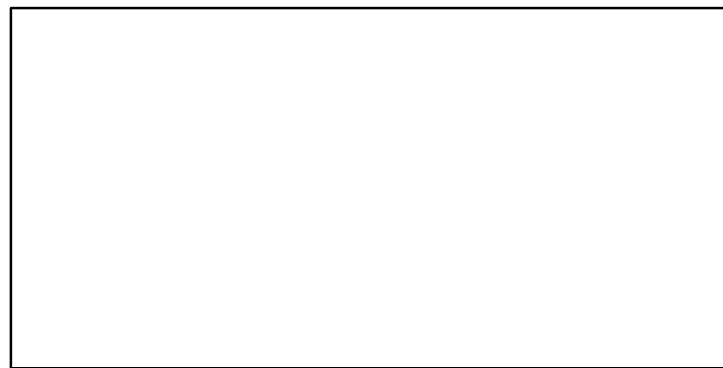
SSB*



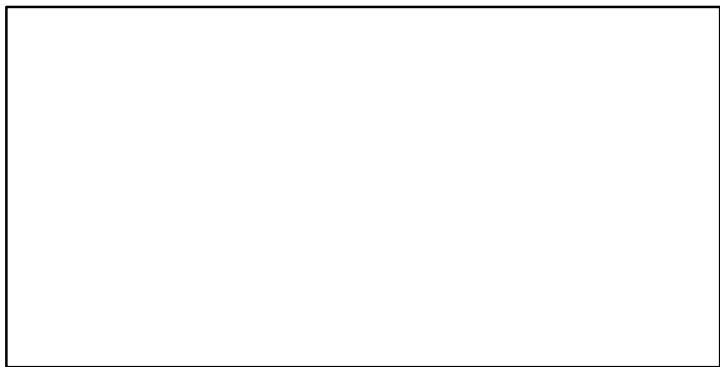
TN *



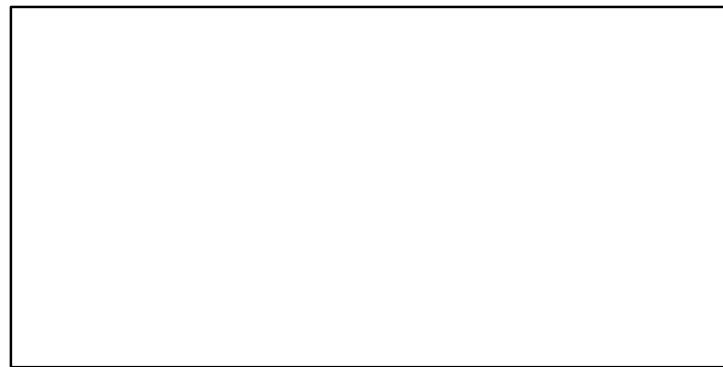
F*



ER*



Recruits*

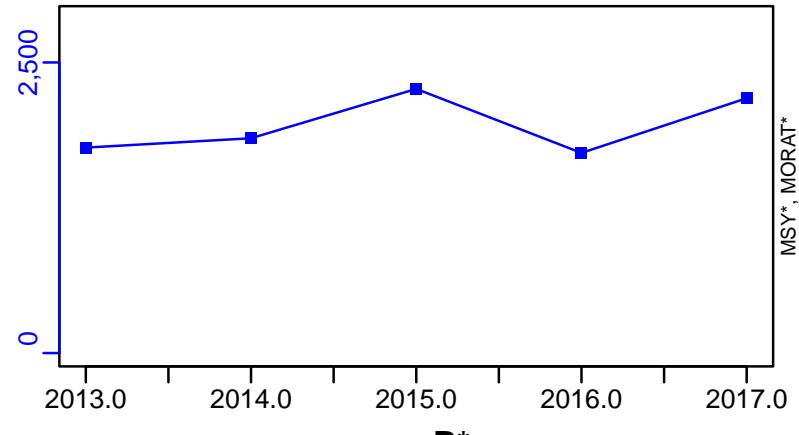


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



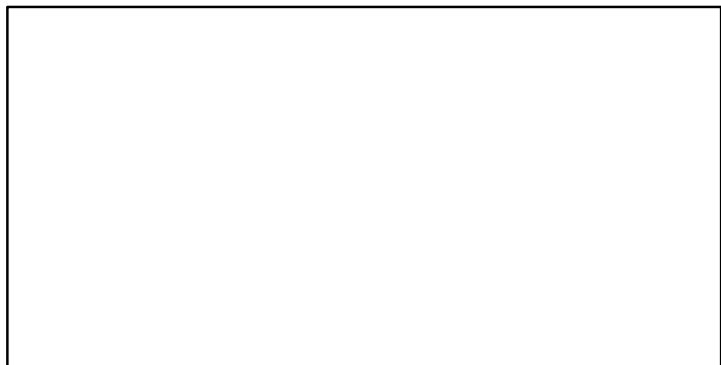
survB*



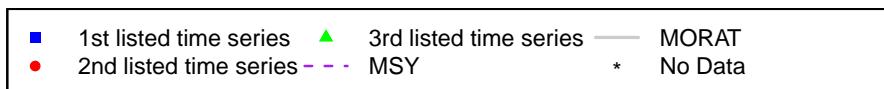
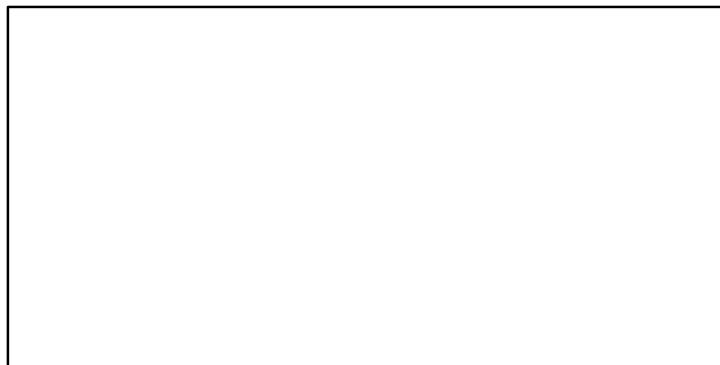
CPUE*



EFFORT*



CdivMSY*



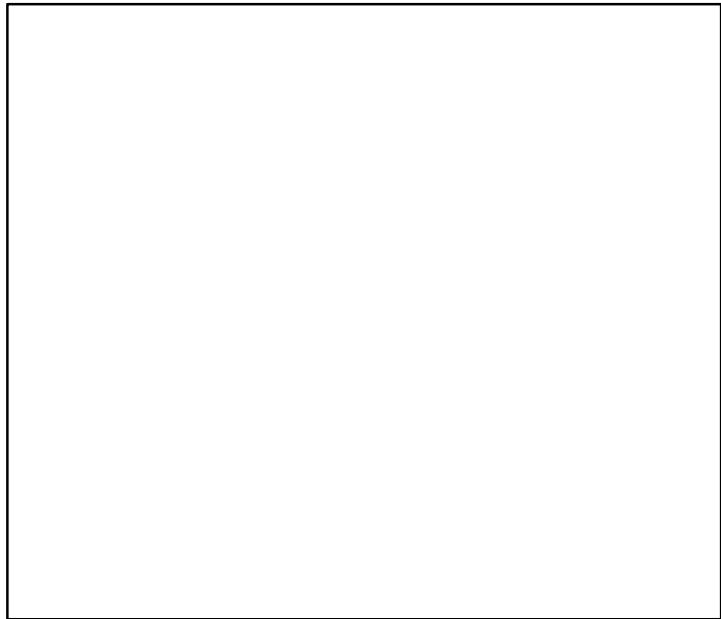
European pollack ICES 8-9a [EPOLLVIII-IXa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGBIE-EPOLLVIII-IXa-1979-2020-ICESIMP2021-2
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2020, 2015, 2016, 2016, 2018

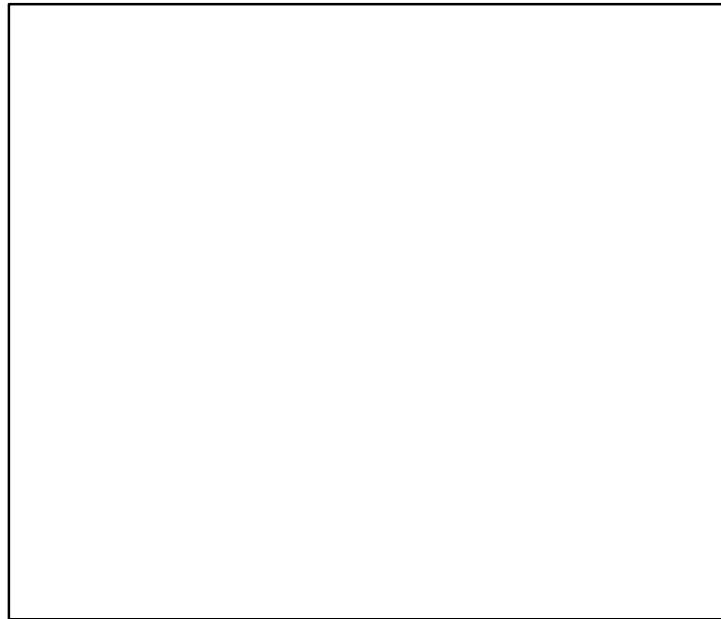
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	1540		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

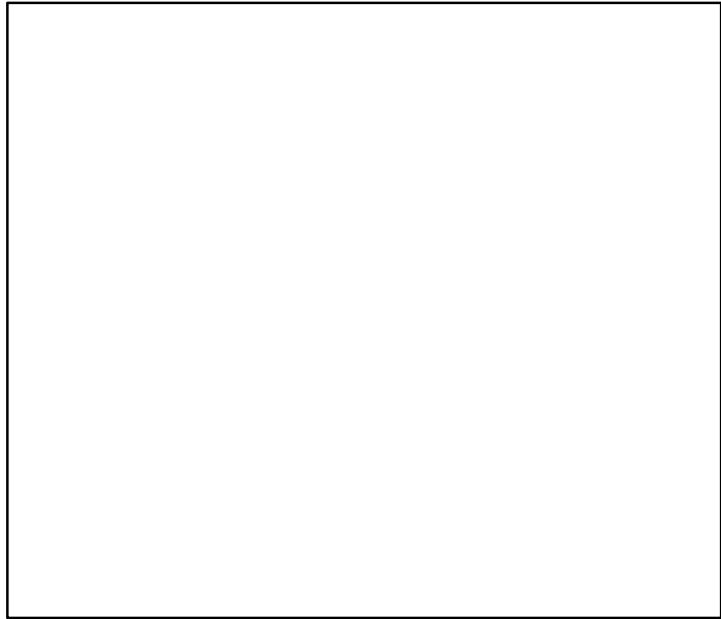
Kobe MSY*



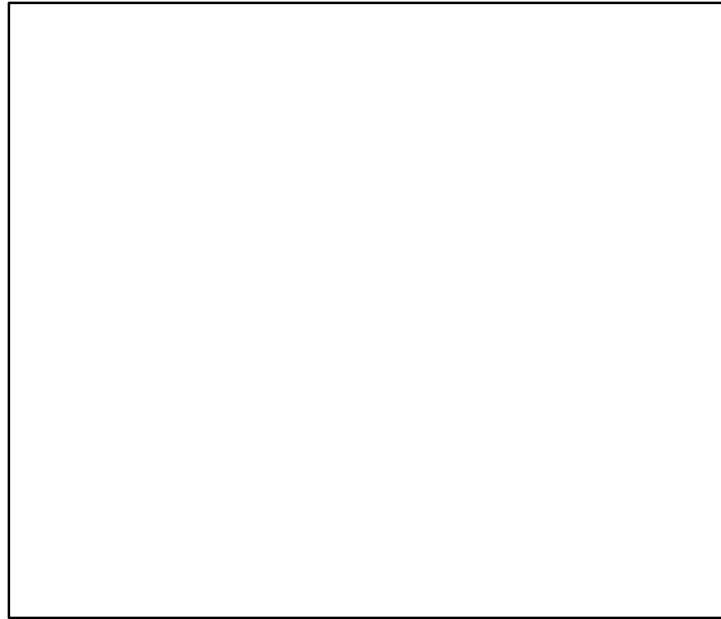
Kobe MGT*



Spawner Recruit*



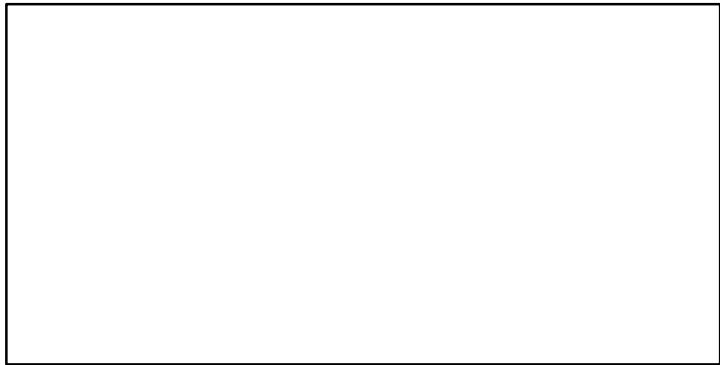
Production*



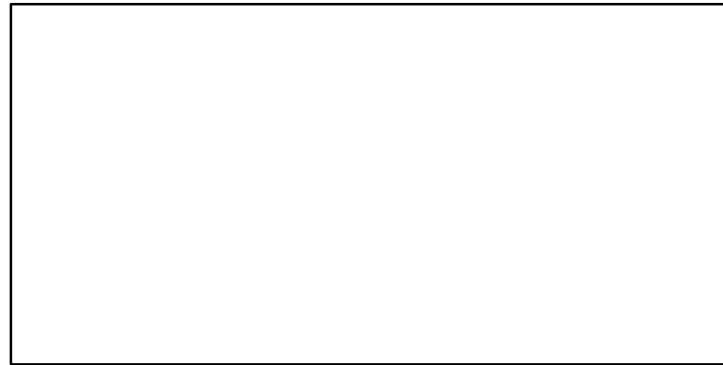
◆ Start Year ♦ End Year * No Data

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

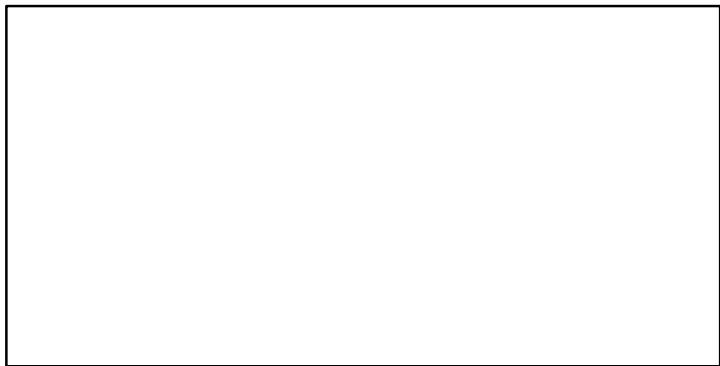
TB*



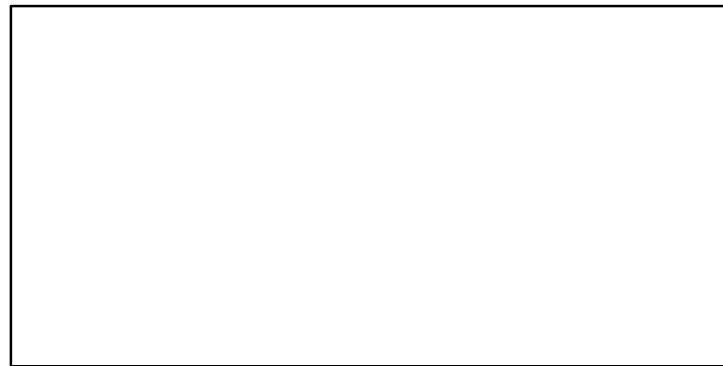
SSB*



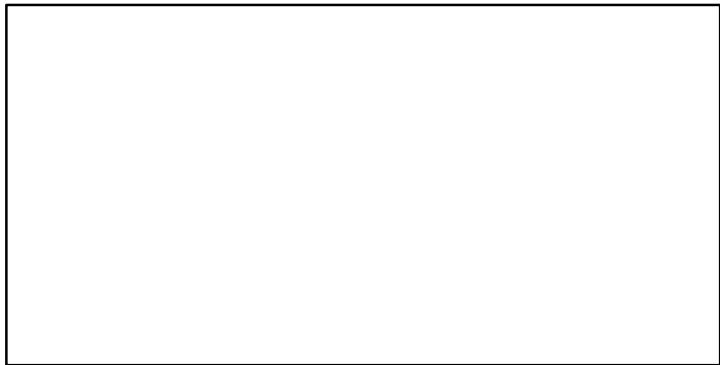
TN *



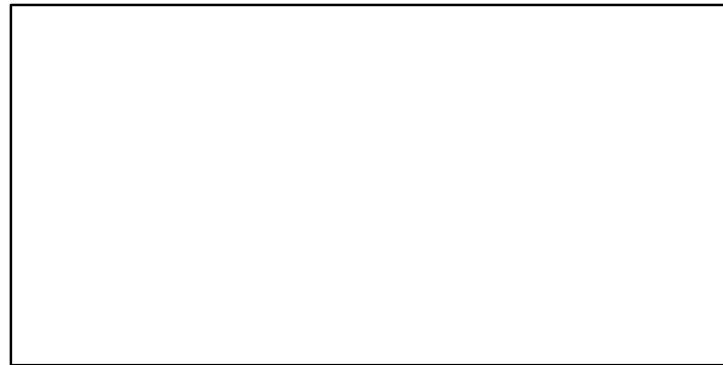
F*



ER*



Recruits*

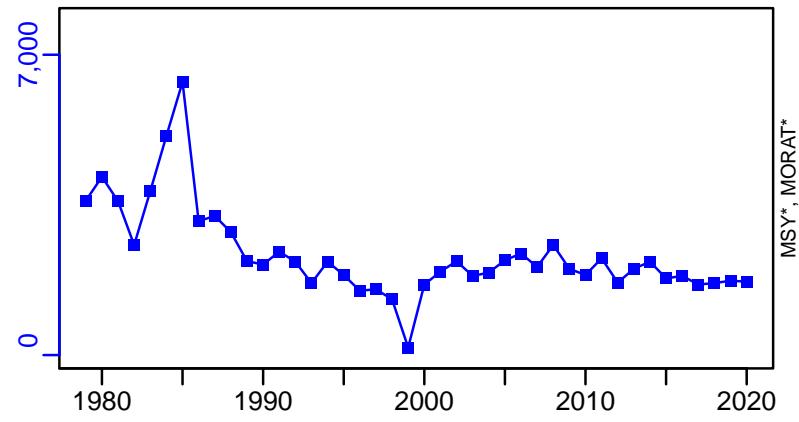


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

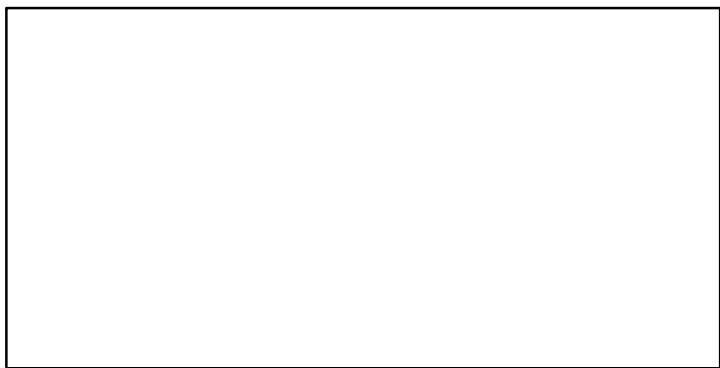
European pollack ICES 8–9a [EPOLLVIII–IXa]

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

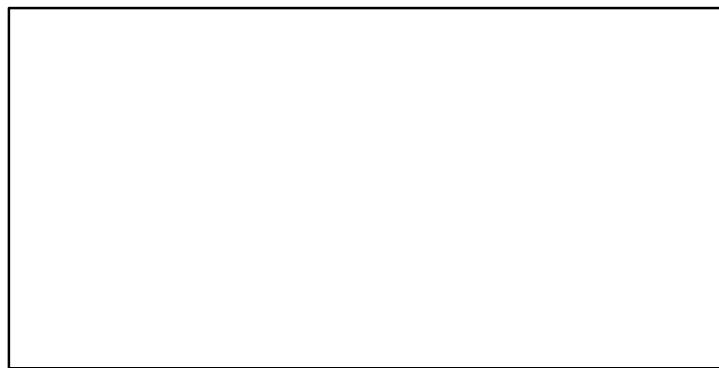
TAC*, Cpair*, Cadv*



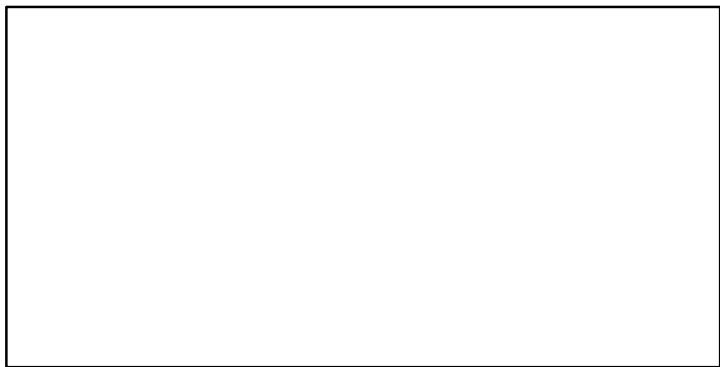
survB*



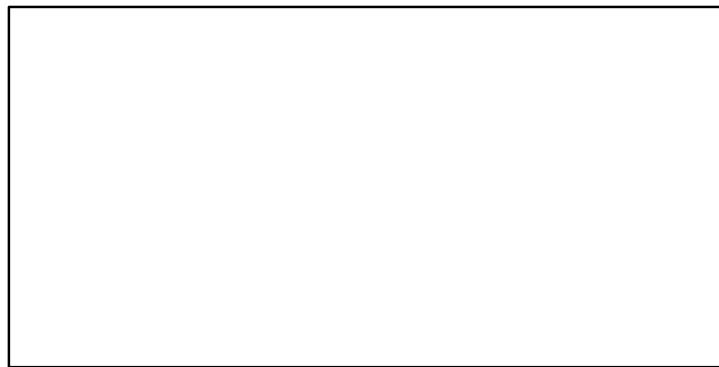
CPUE*



EFFORT*



CdivMSY*



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

Fourspotted megrim ICES 8c-9a [FMEG8c9a]

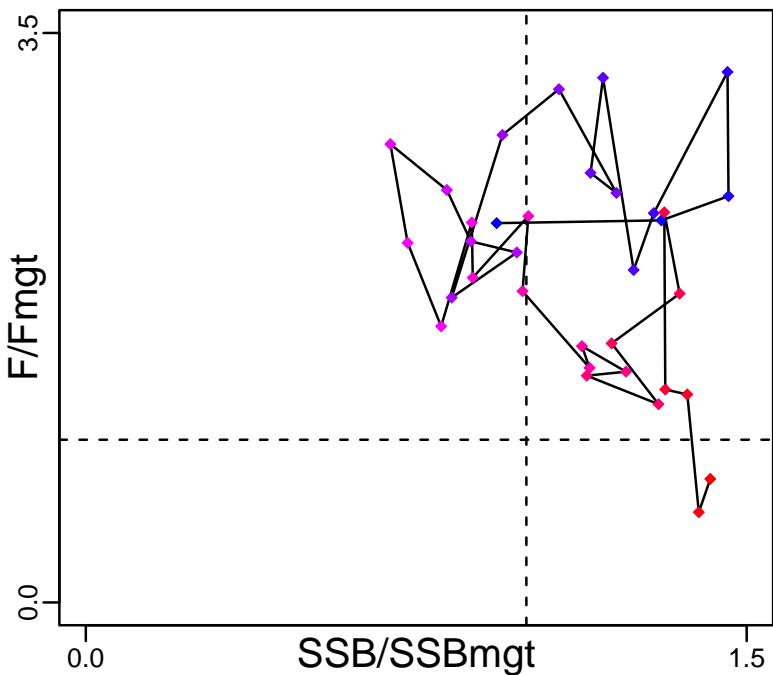
Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEG8c9a-1986-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016,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

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

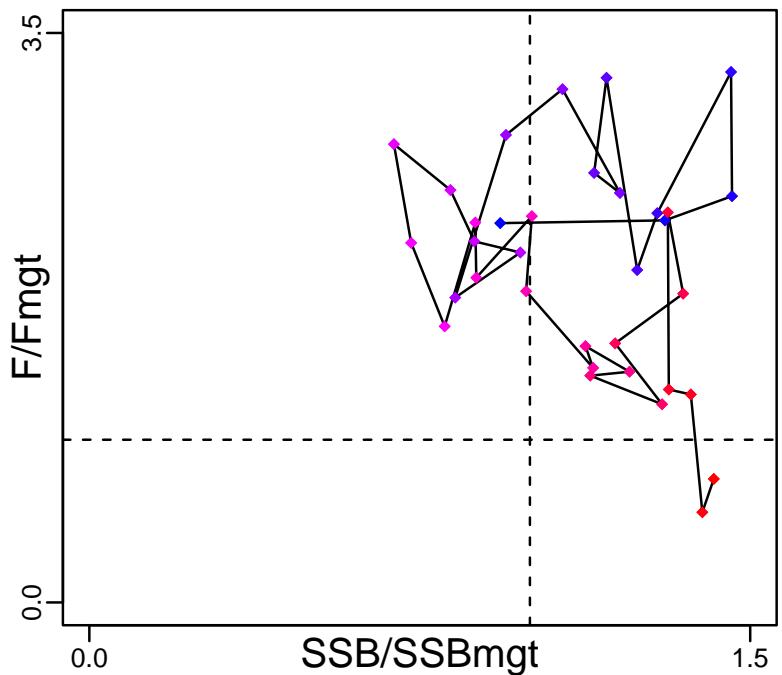
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	7878	-	-
SSB	SSB-MT	2021	8490	-	-
TN	-	-	-	-	-
R	R-E00	2021	43,200,000	-	0
F	F-1/yr	2021	0.108	-	-
ER	ER-calc-ratio	2019	0.115	-	-
TC	TC-MT	2021	792		
TL	TL-MT	2021	711		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021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

Fourspotted megrim ICES 8c–9a [FMEG8c9a]

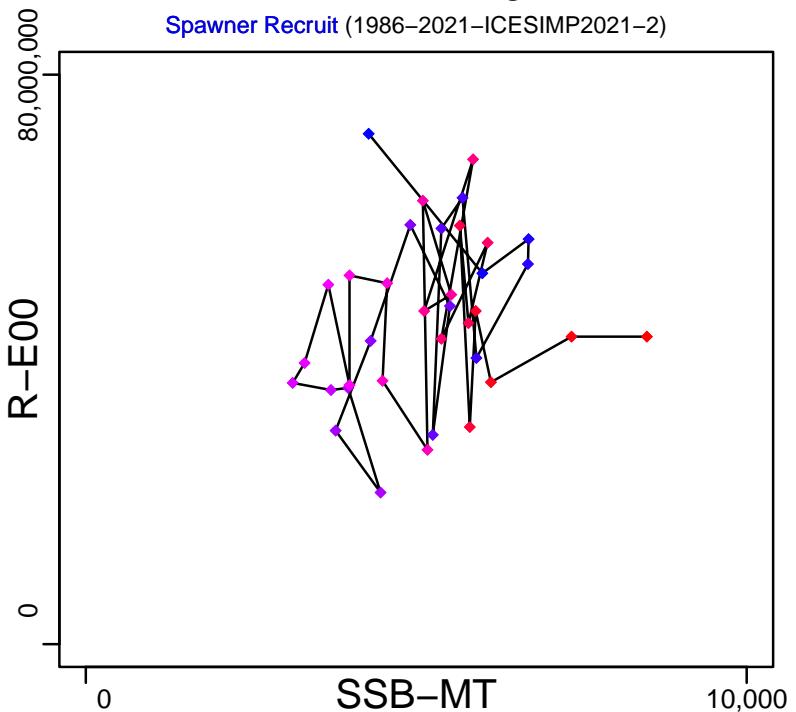
Kobe MSYpref (1986–2020–ICESIMP2021–2)



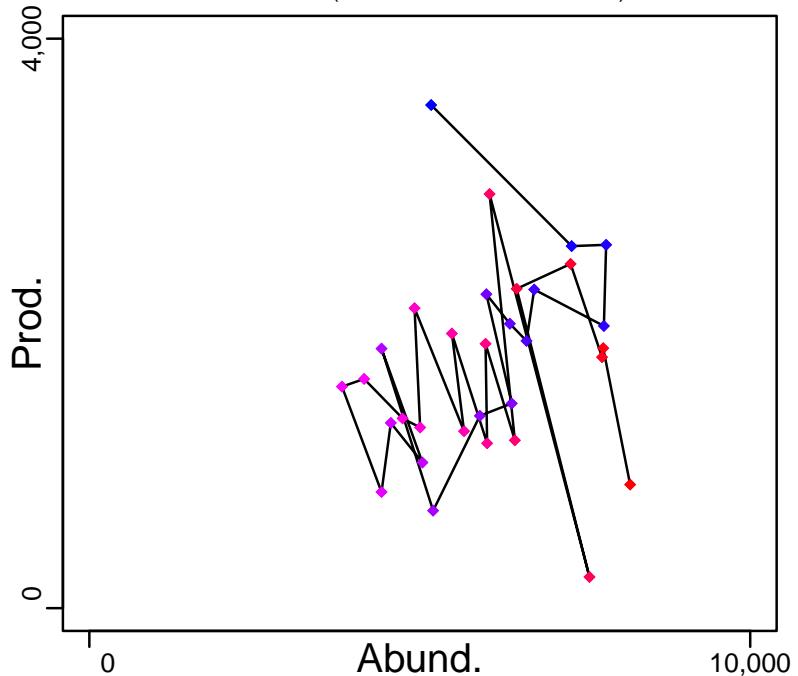
Kobe MGTpref (1986–2020–ICESIMP2021–2)



Spawner Recruit (1986–2021–ICESIMP2021–2)



Production (1986–2019–ICESIMP2021)

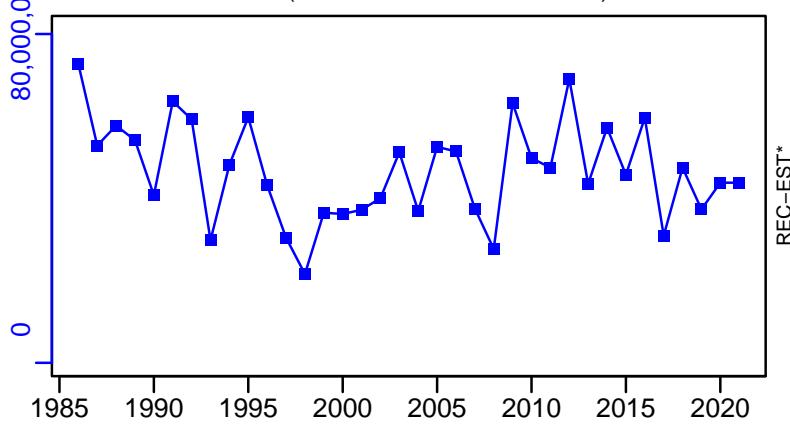
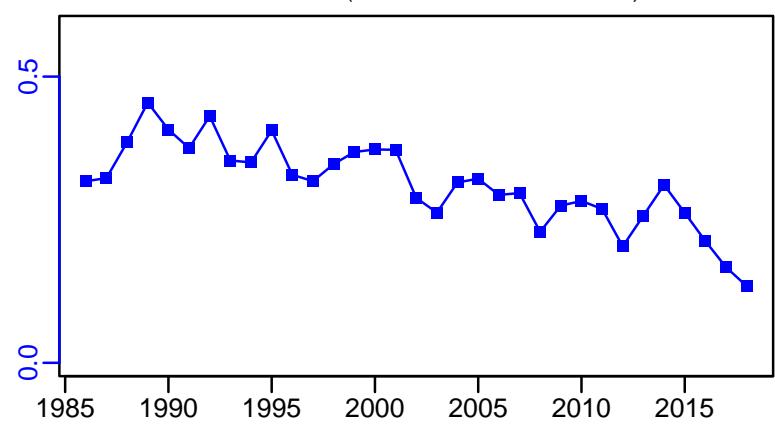
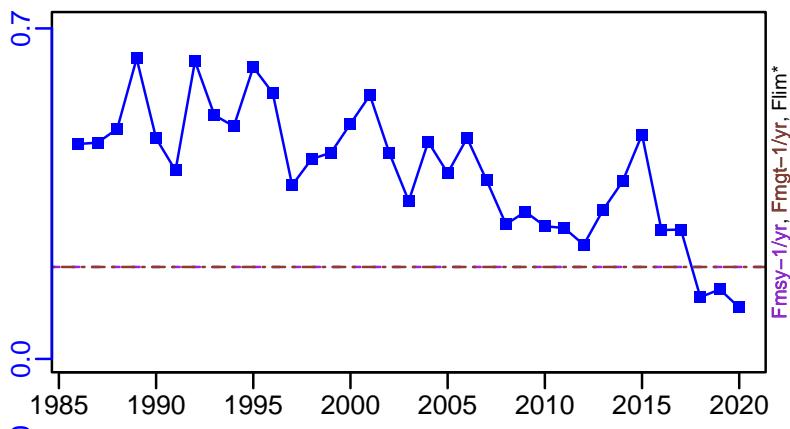
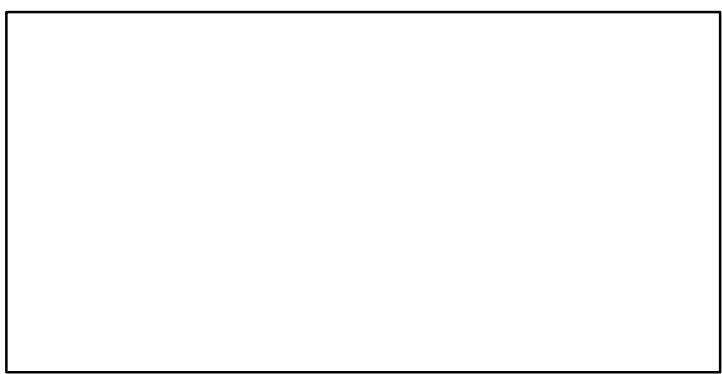
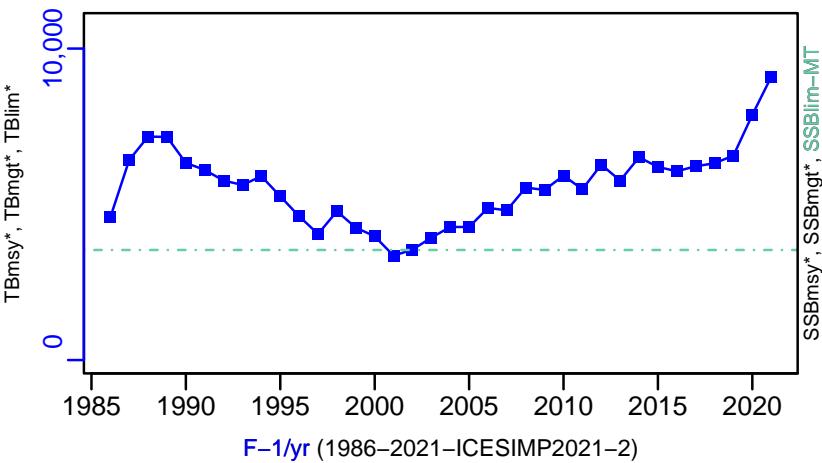
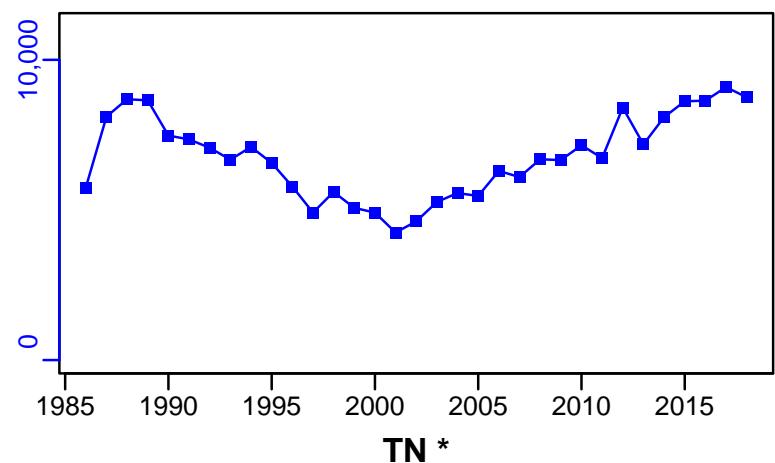


◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES 8c–9a [FMEG8c9a]

TB-MT (1986–2019–ICESIMP2021)

SSB-MT (1986–2021–ICESIMP2021–2)

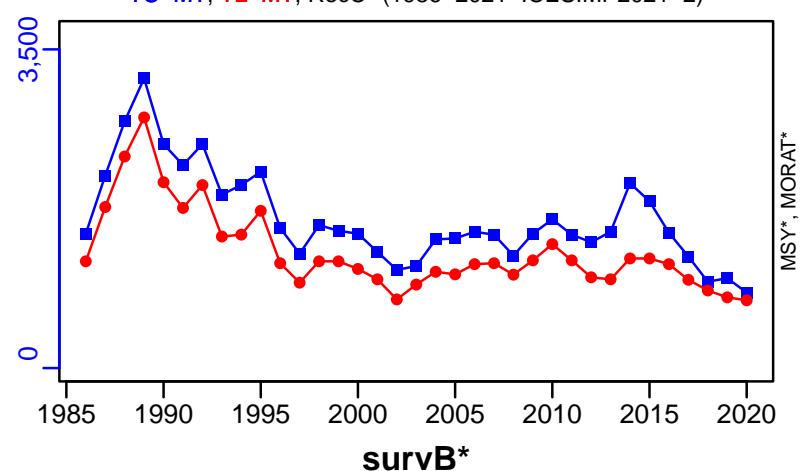


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Fourspotted megrim ICES 8c–9a [FMEG8c9a]

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

TAC*, Cpair*, Cadv*



MSY*, MORAT*

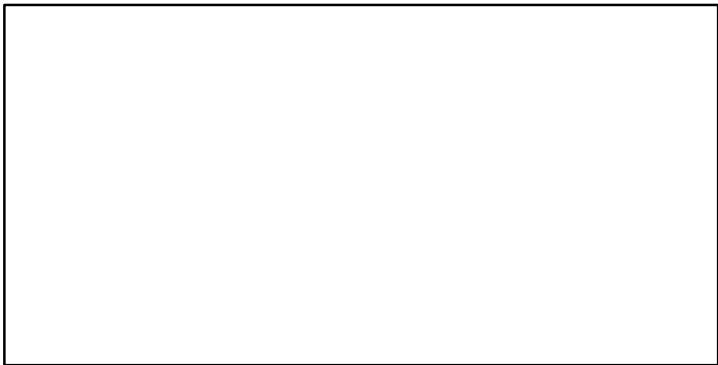
survB*



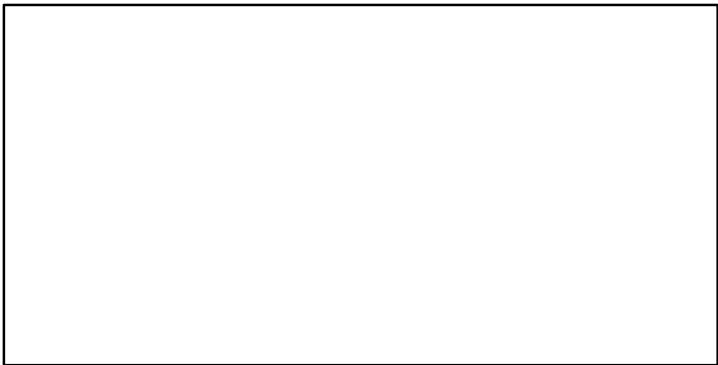
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEGVIIb-k_VIIIabd-2017-2020-ICESIMP2021-2
Area	ICES 7b-k_8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2018, 2019, 2020

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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



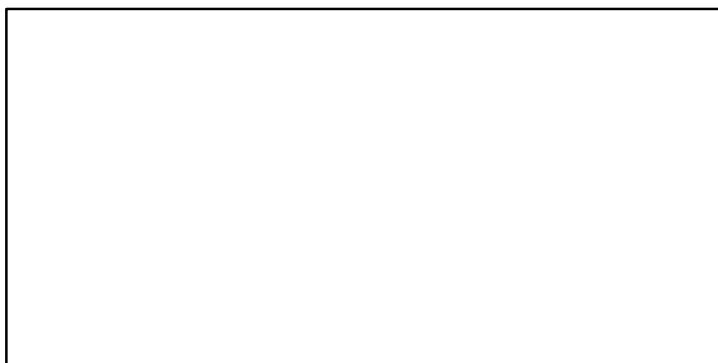
TN *



F*



ER*



Recruits*

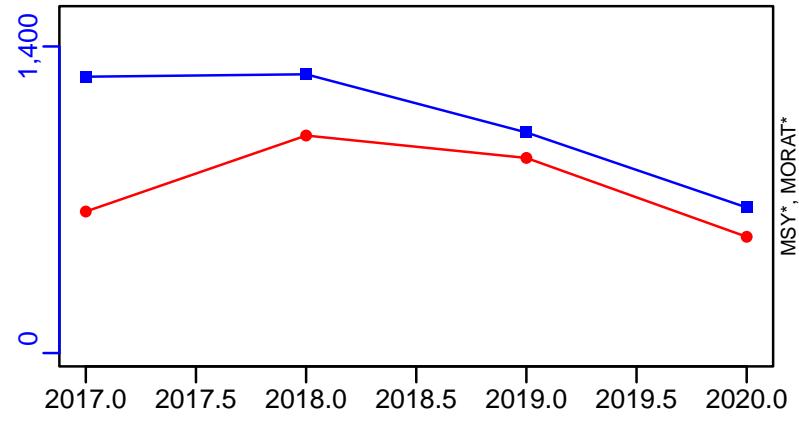


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

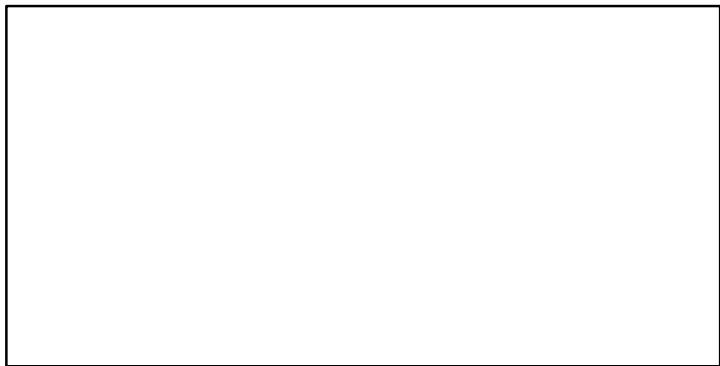
Fourspotted megrim ICES 7b-k_8abd [FMEGVIIb-k_VIIIabd]

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

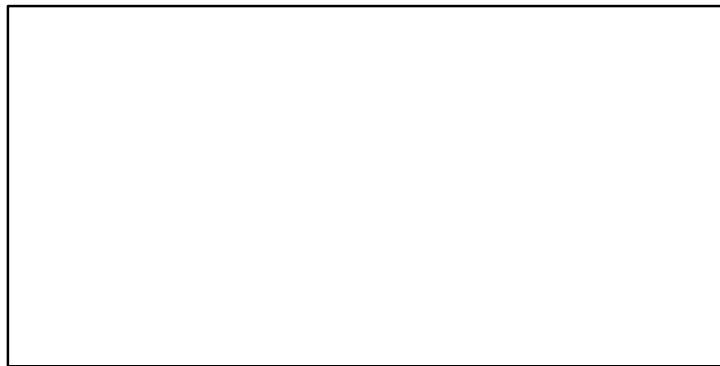
TAC*, Cpair*, Cadv*



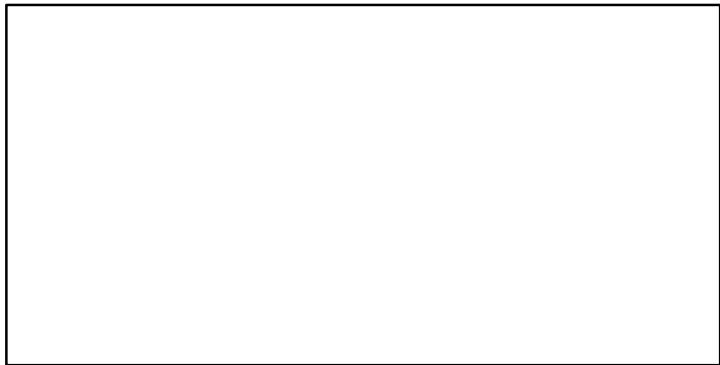
survB*



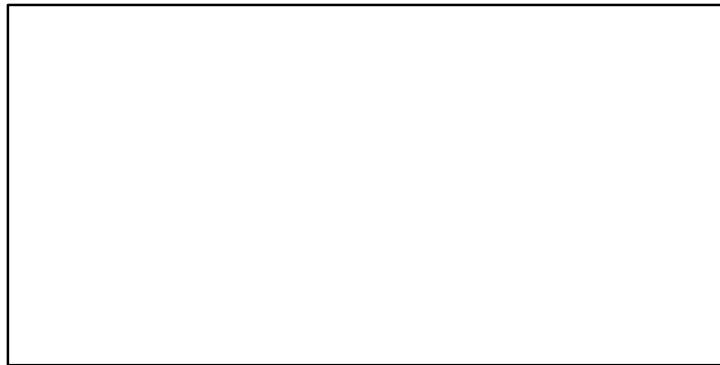
CPUE*



EFFORT*



CdivMSY*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

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

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

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

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Greater forkbeard Northeast Atlantic [GFORKNEATL]

TB*



SSB*



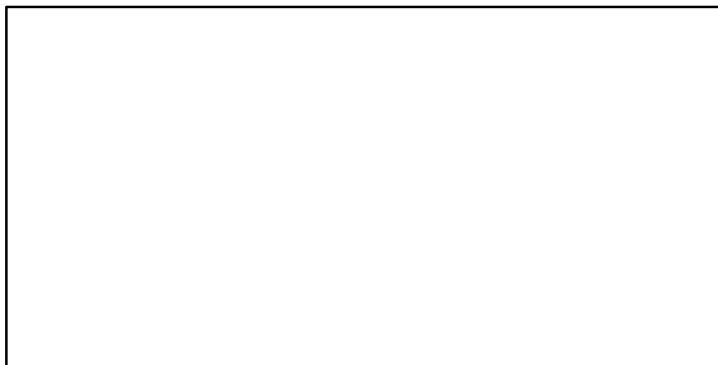
TN *



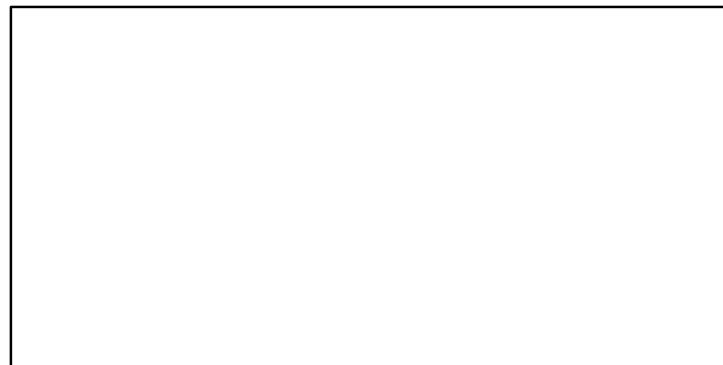
F*



ER*



Recruits*

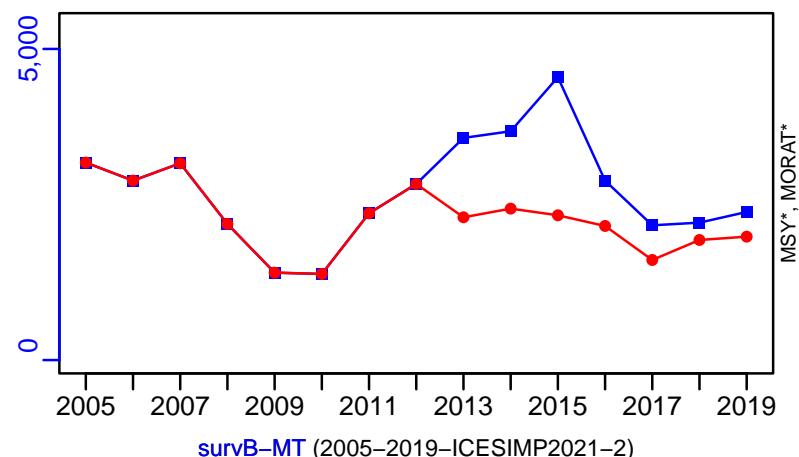


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

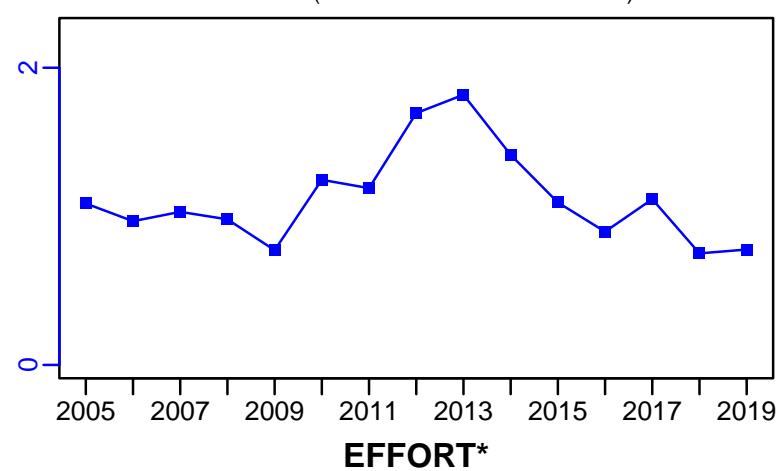
Greater forkbeard Northeast Atlantic [GFORKNEATL]

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

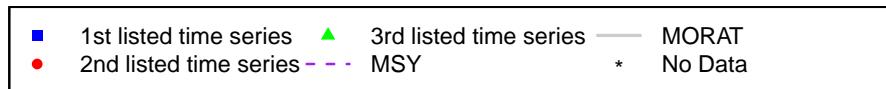
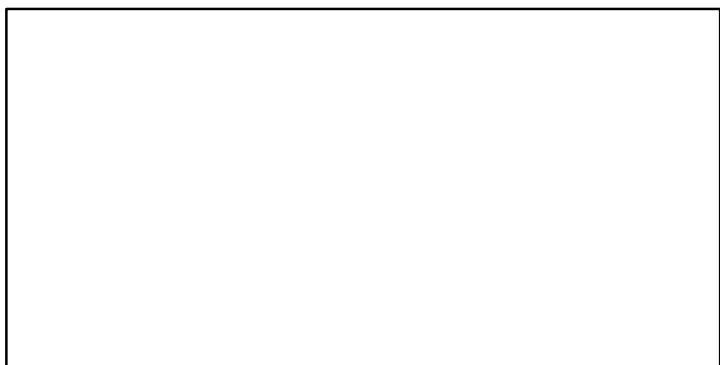
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



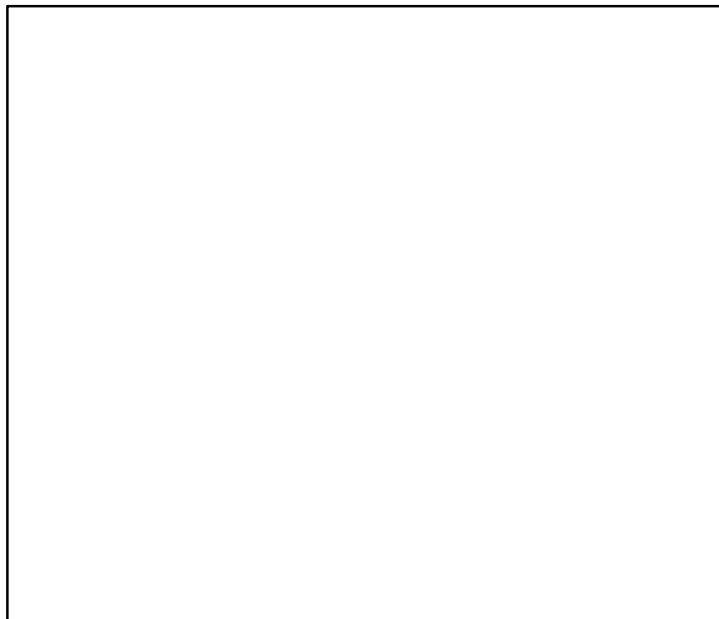
Grey gurnard ICES 3a-4-7d [GGURNIIIA-IV-VIId]

Metadata	
Scientific Name	Eutrigla gurnardus
Current Assess ID	WGNSSK-GGURNIIIA-IV-VIId-1983-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017, 2020

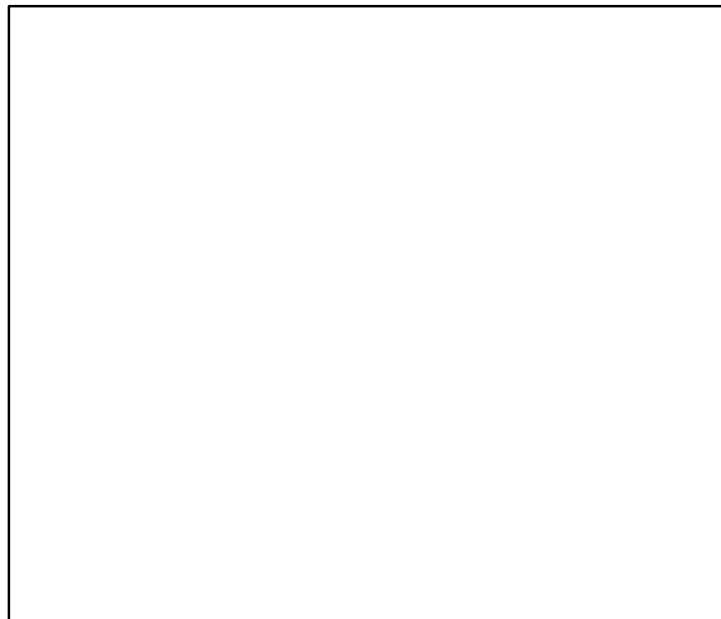
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	9280		
TL	TL-MT	2020	1710		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

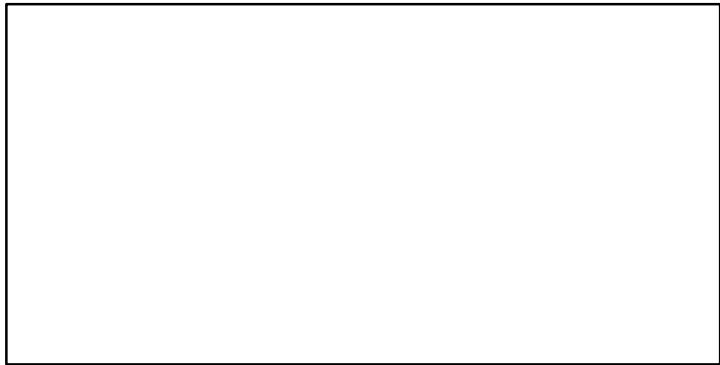


Production*

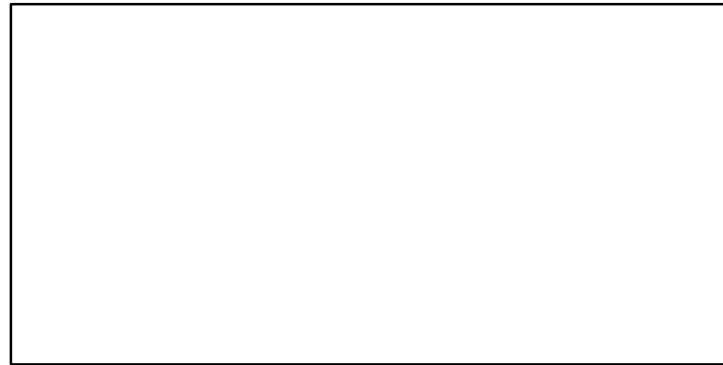


◆ Start Year ♦ End Year * No Data

TB*



SSB*



TN *



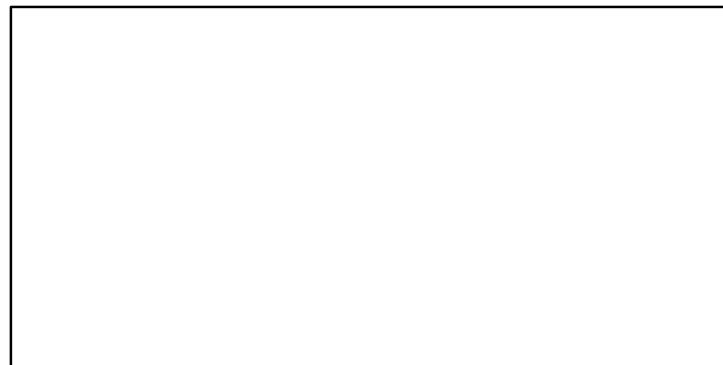
F*



ER*



Recruits*

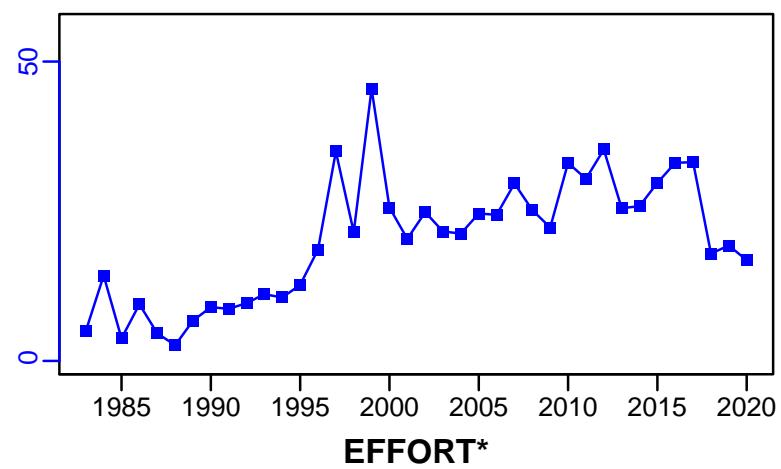
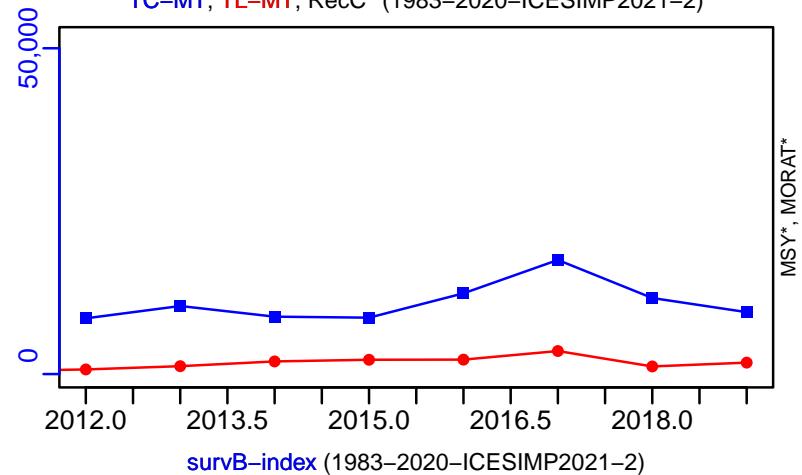


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

TC–MT, TL–MT, RecC* (1983–2020–ICESIMP2021–2)

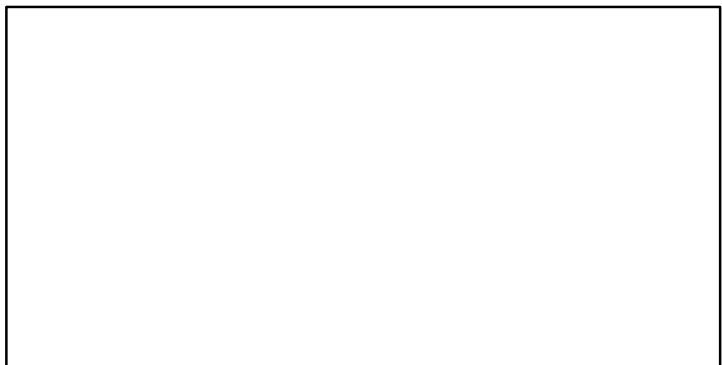
TAC*, Cpair*, Cadv*



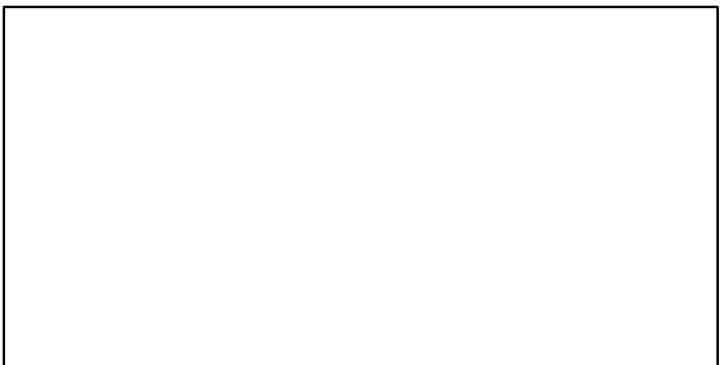
CPUE*



EFFORT*



CdivMSY*



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

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

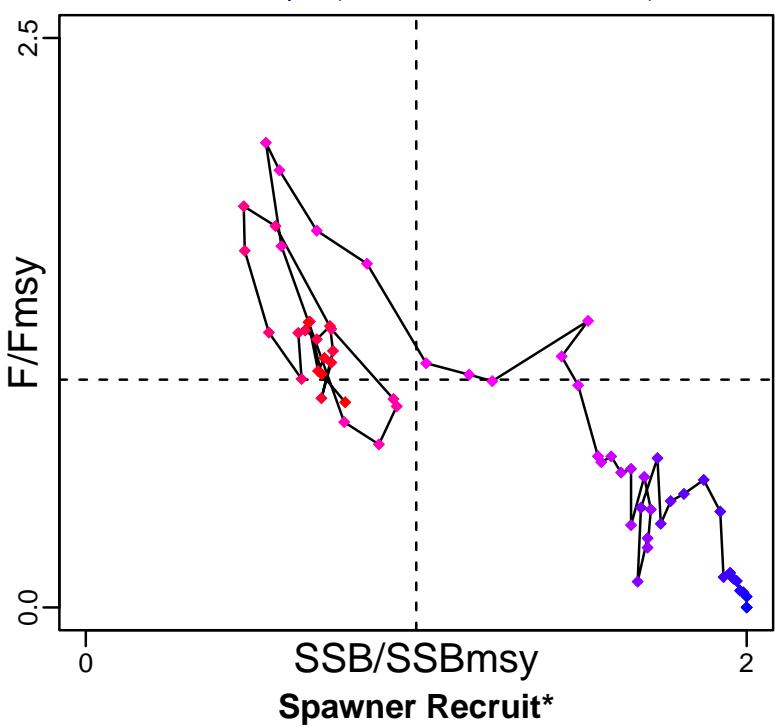
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NWWG-GHALV-VI-XII-XIV-1960-2021-ICESIMP2021-2
Area	ICES 5-6-12-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018,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

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

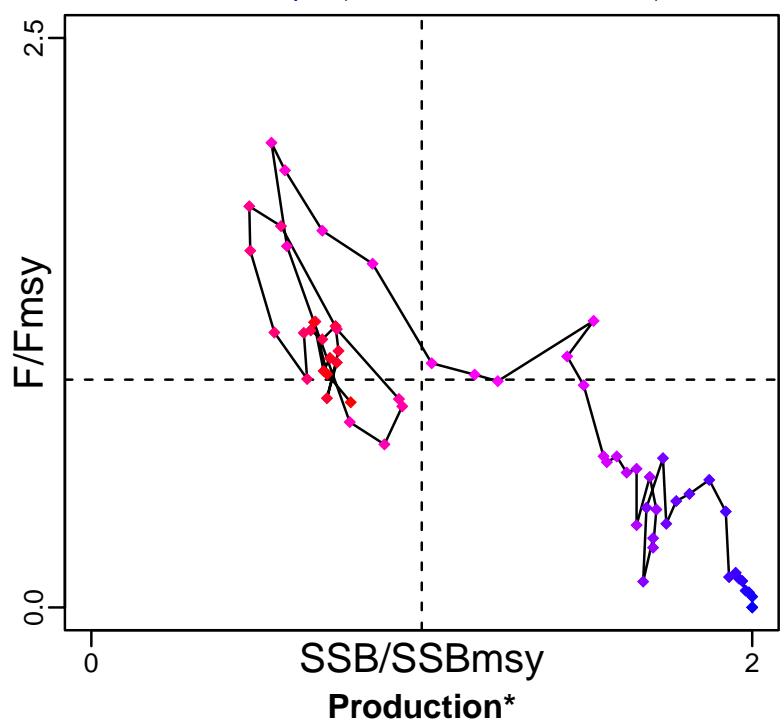
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2018	23,500			
TL	TL-MT	2021	22,700			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	0.803			
F/Fmsy	FdivFmsy-dimensionless	2021	0.901			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

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

Kobe MSYpref (1960–2021–ICESIMP2021–2)

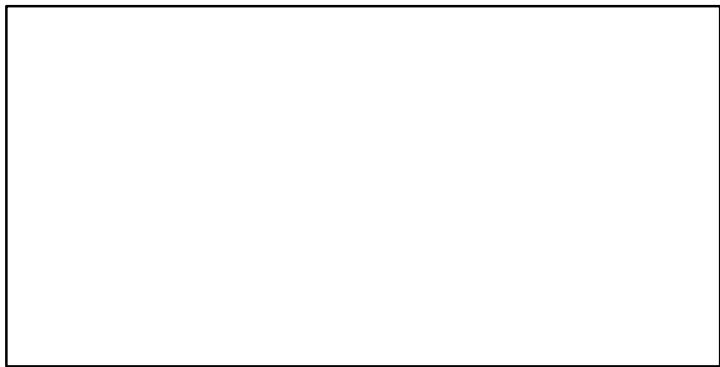


Kobe MGTpref (1960–2021–ICESIMP2021–2)

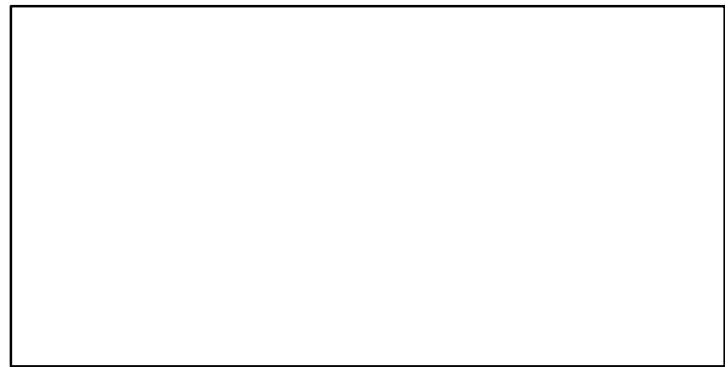


◆ Start Year	◆ End Year	* No Data
--------------	------------	-----------

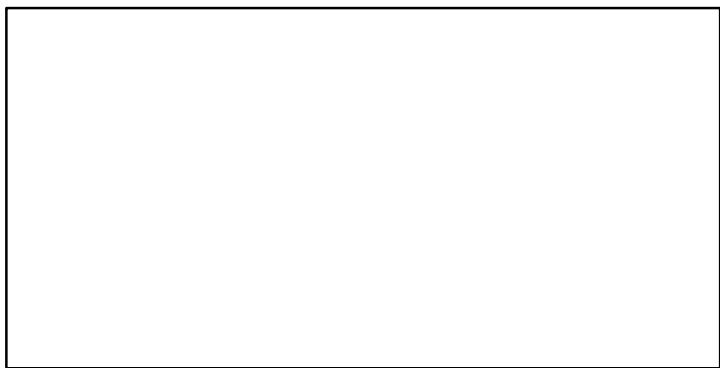
TB*



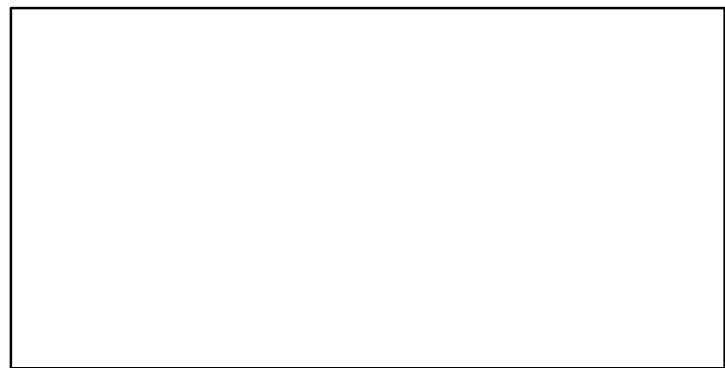
SSB*



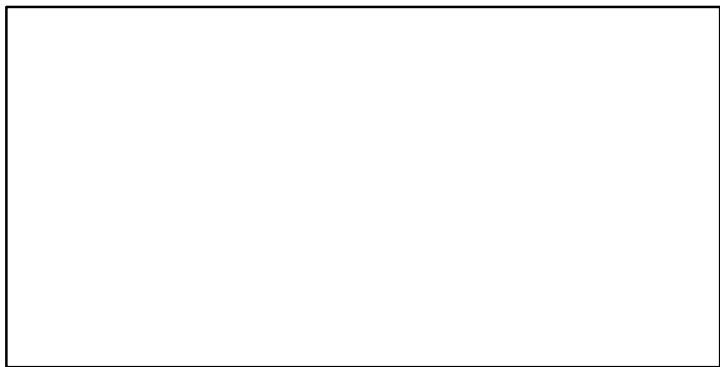
TN *



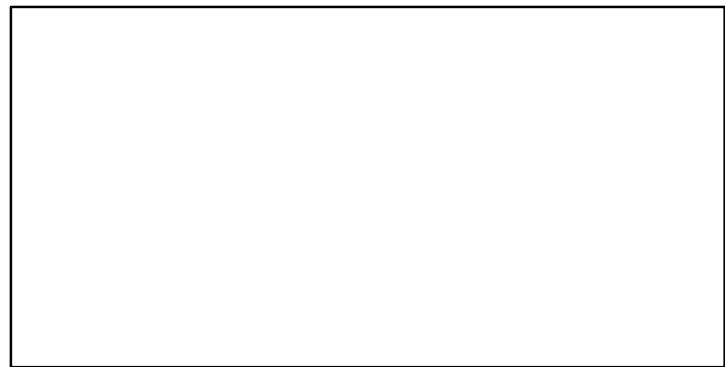
F*



ER*



Recruits*

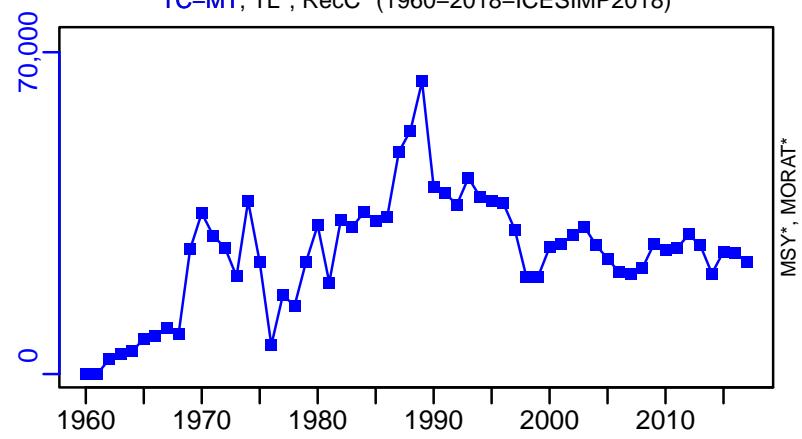


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

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

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

TAC*, Cpair*, Cadv*



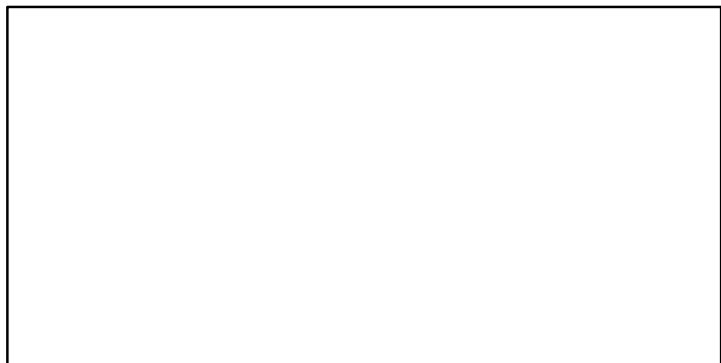
survB*



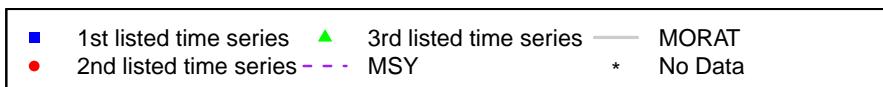
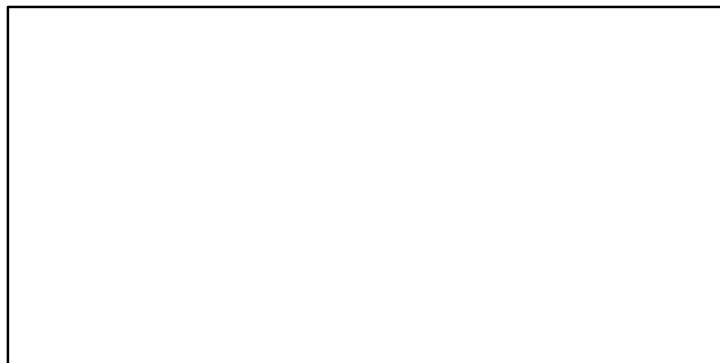
CPUE*



EFFORT*



CdivMSY*



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

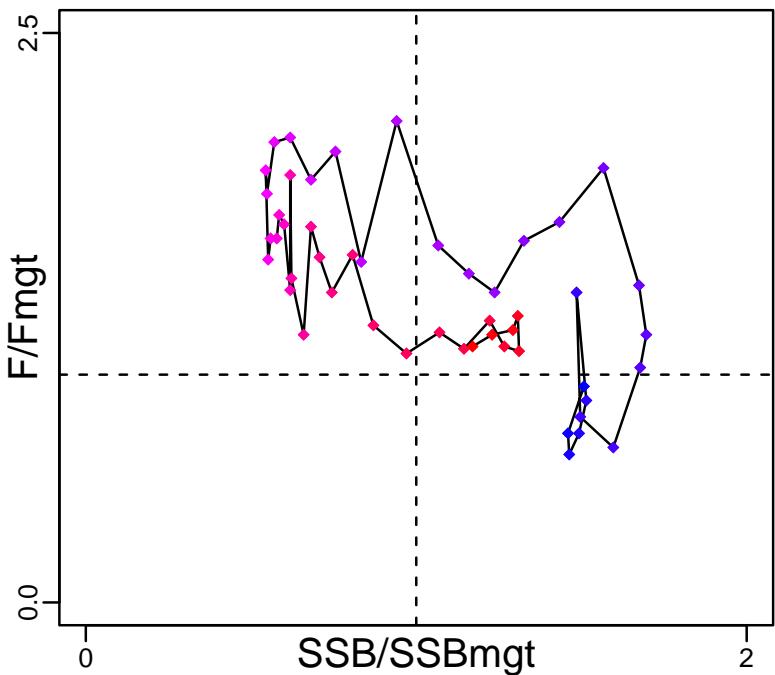
Metadata	
Scientific Name	Sebastes norvegicus
Current Assess ID	NWWG-GOLDREDV-VI-XII-XIV-1971-2021-ICESIMP2021-2
Area	ICES 5-6-12-14
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2014, 2017, 2018, 2015, 2016, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.097
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	270,000
Fmgt	Fmgt-1/yr	2021	0.097
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	160,000
Flim	Flim-1/yr	2021	0.226
ERlim	-	-	-

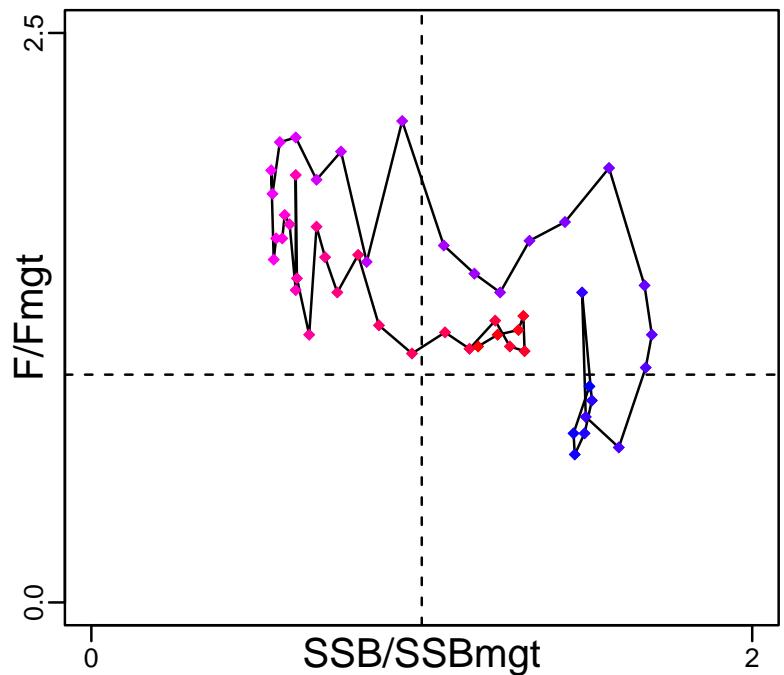
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	434,000	Both	-
SSB	SSB-MT	2021	260,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	33,200	-	5
F	F-1/yr	2021	0.118	-	-
ER	ER-calc-ratio	2018	0.122	-	-
TC	TC-MT	2021	46,100		
TL	TL-MT	2021	46,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.216		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.1		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.216		
ER/ERmgt	-	-	-		

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

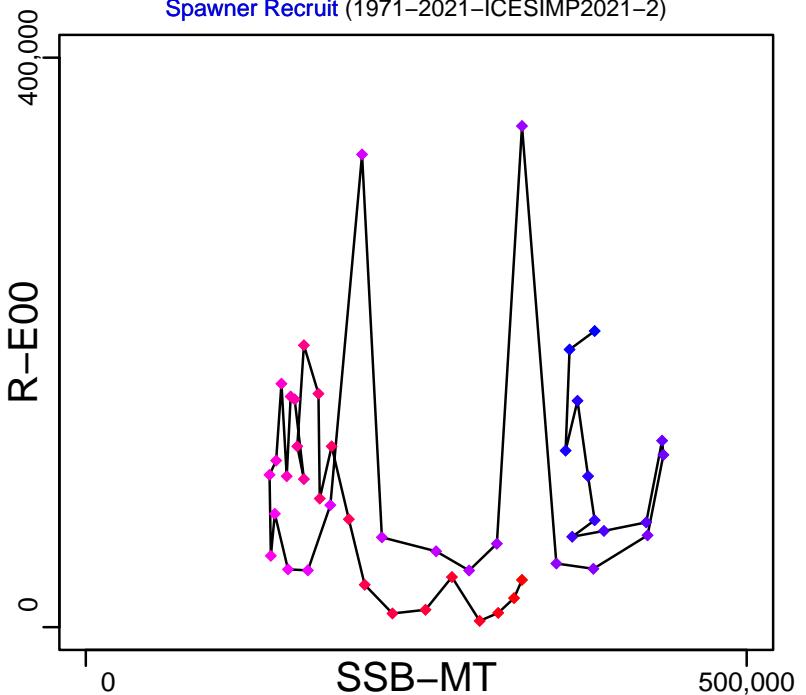
Kobe MSYpref (1971–2020–ICESIMP2021–2)



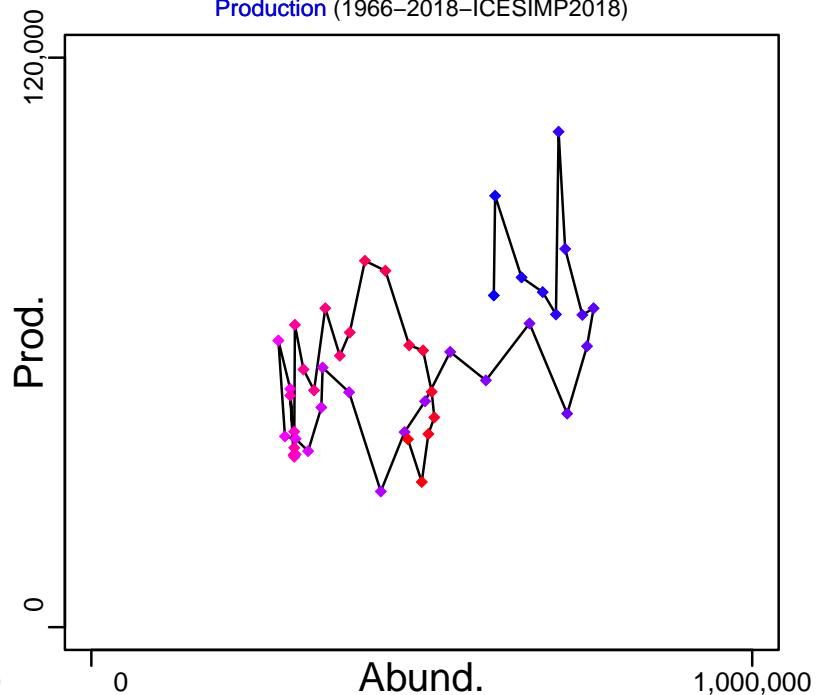
Kobe MGTpref (1971–2020–ICESIMP2021–2)



Spawner Recruit (1971–2021–ICESIMP2021–2)



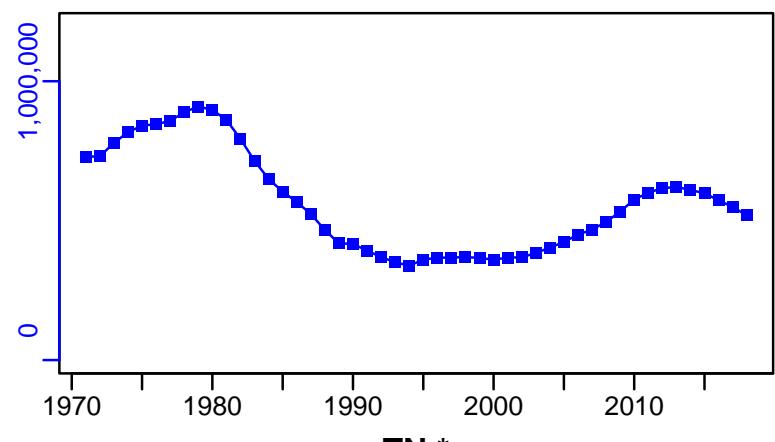
Production (1966–2018–ICESIMP2018)



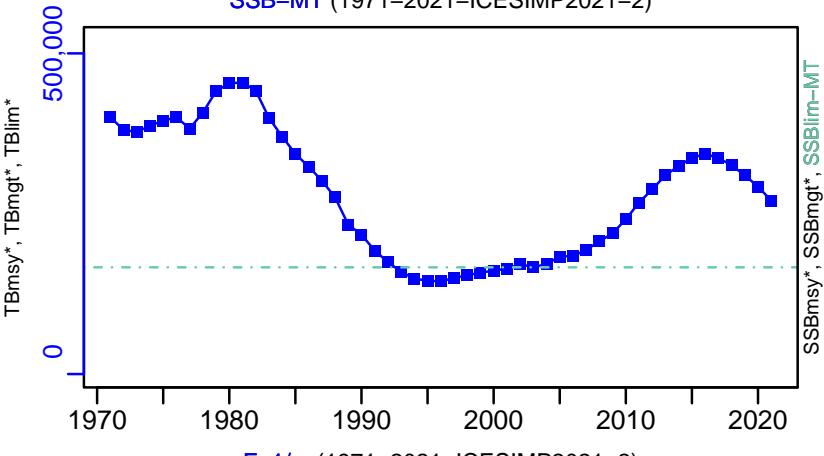
◆ Start Year ♦ End Year * No Data

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

TB-MT (1966–2018–ICESIMP2018)



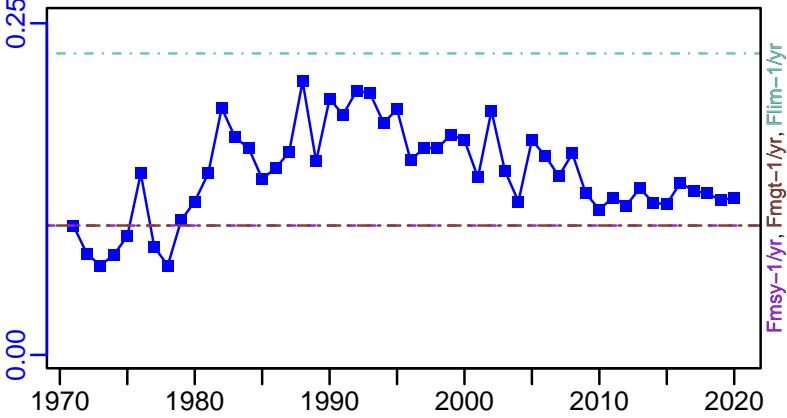
SSB-MT (1971–2021–ICESIMP2021–2)



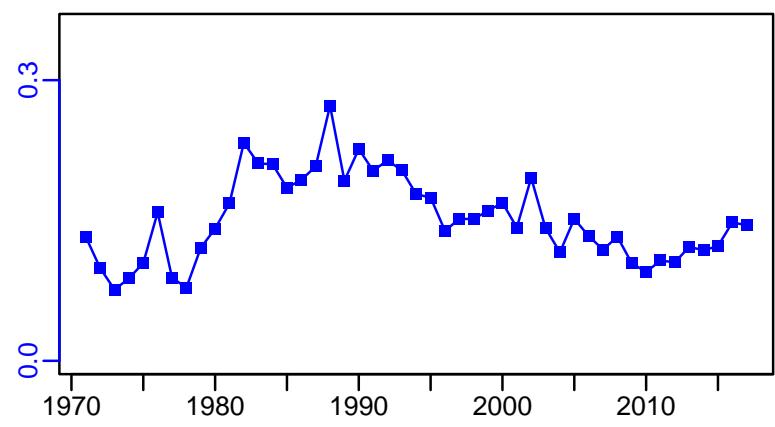
TN *



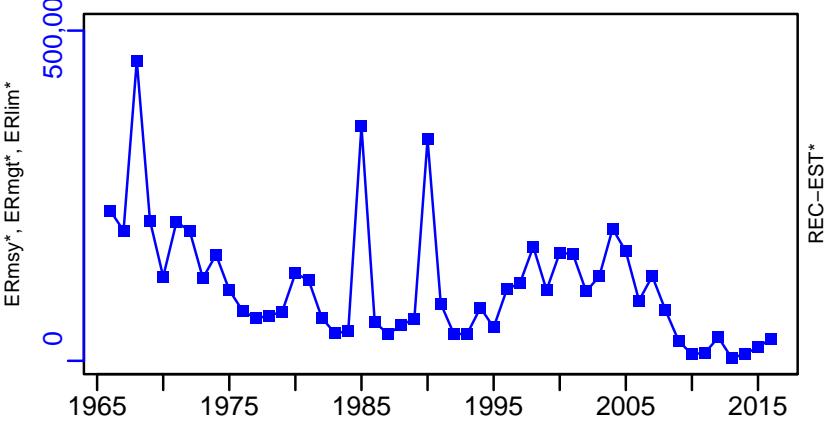
F-1/yr (1971–2021–ICESIMP2021–2)



ER-calc-ratio (1966–2018–ICESIMP2018)



R-E00 (1971–2021–ICESIMP2021–2)



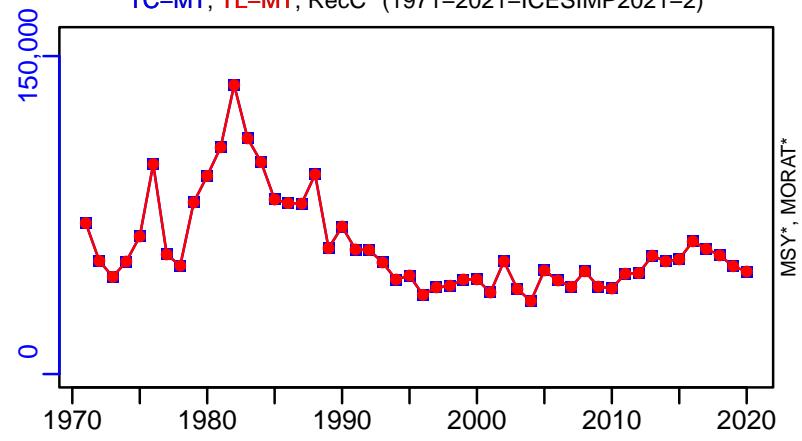
REC-EST*

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

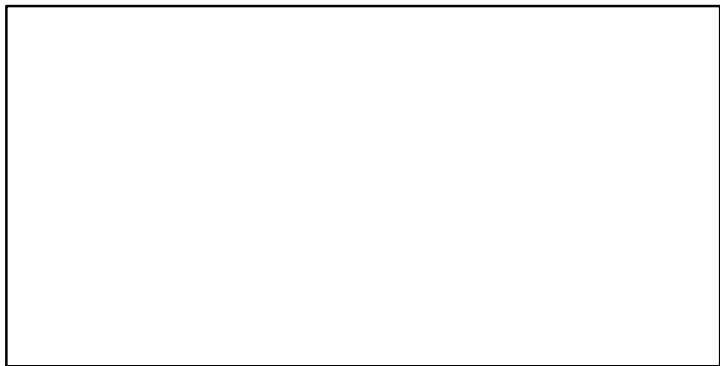
Golden redfish ICES 5–6–12–14 [GOLDREDV–VI–XII–XIV]

TC–MT, TL–MT, RecC* (1971–2021–ICESIMP2021–2)

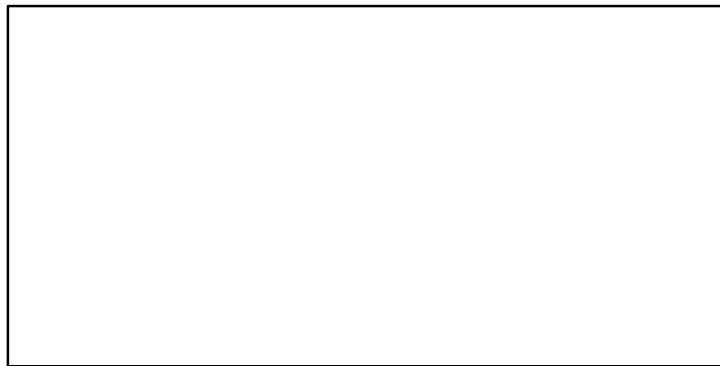
TAC*, Cpair*, Cadv*



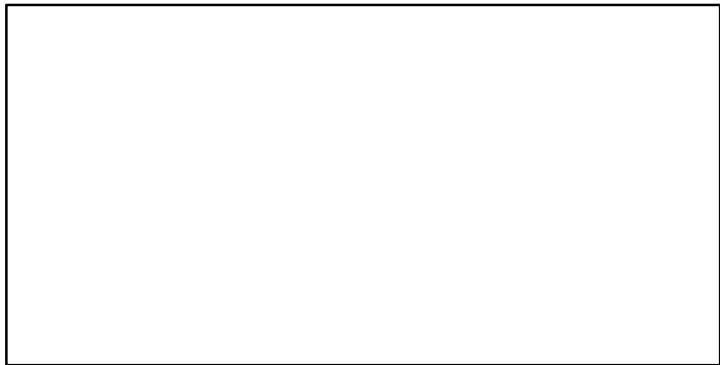
survB*



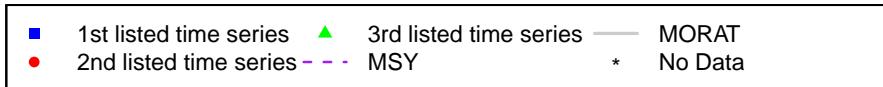
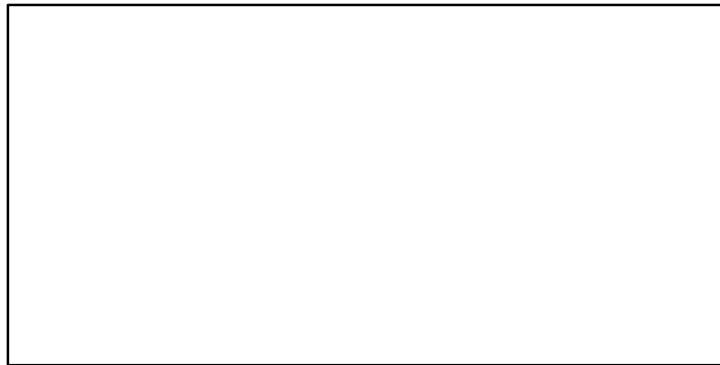
CPUE*



EFFORT*



CdivMSY*



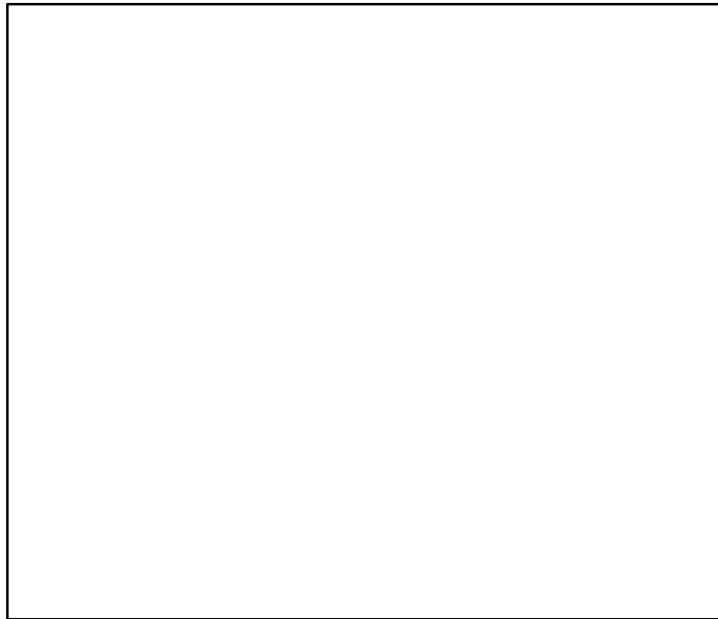
Greater silver smelt ICES 1-2-3a-4 [GSSMELTI-II-IIa-IV]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTI-II-IIa-IV-1988-2020-ICESIMP2021-2
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, 2020

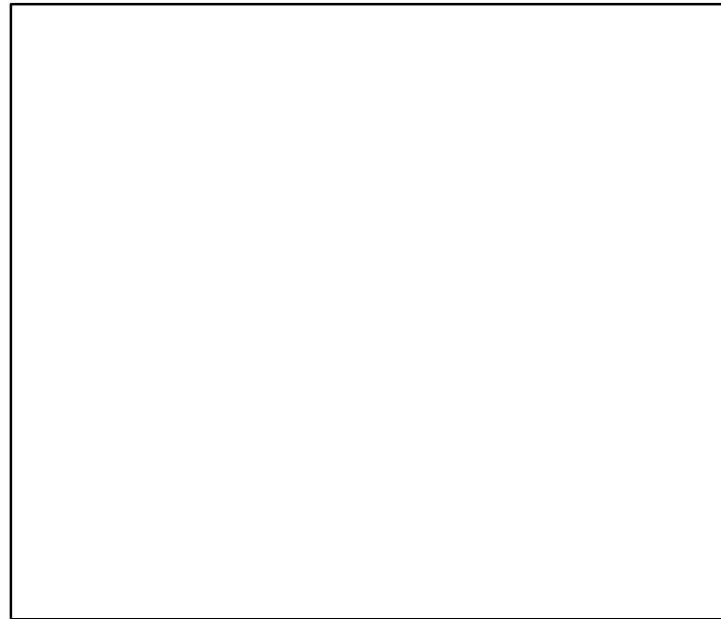
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2014	15,100			
TL	TL-MT	2020	15,900			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2020	1.16			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

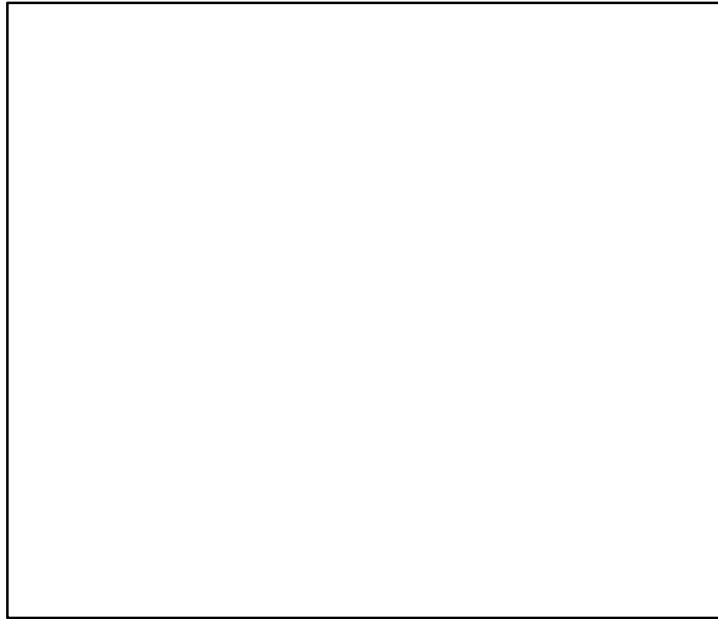
Kobe MSY*



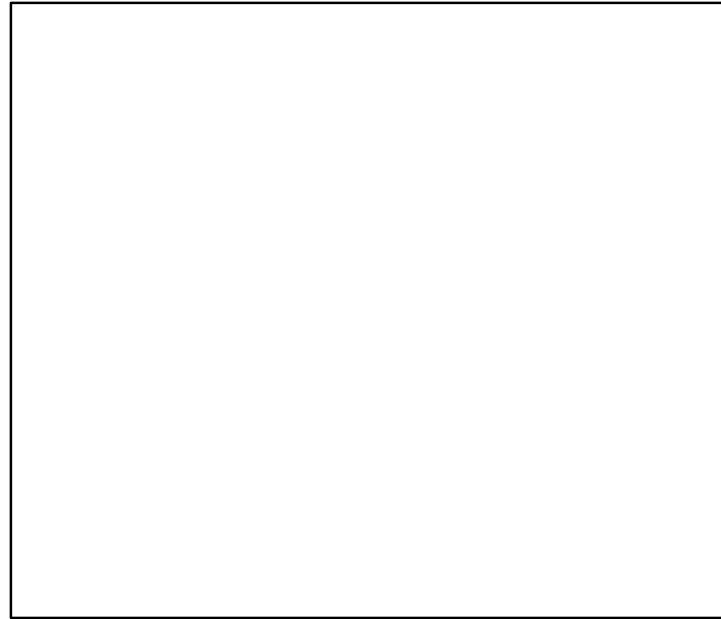
Kobe MGT*



Spawner Recruit*



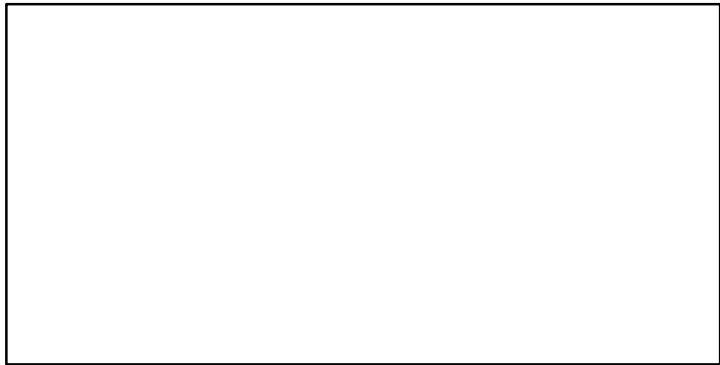
Production*



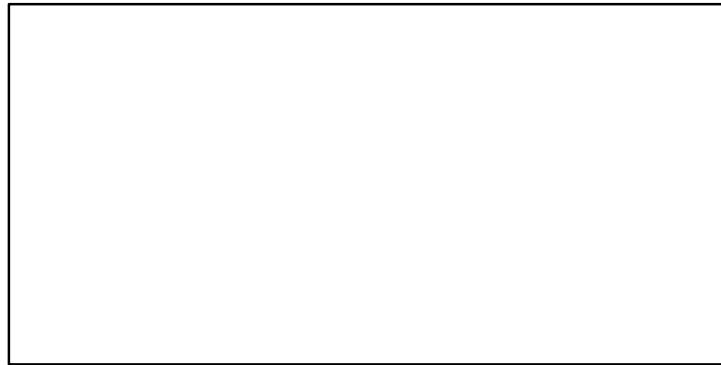
◆ Start Year ♦ End Year * No Data

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

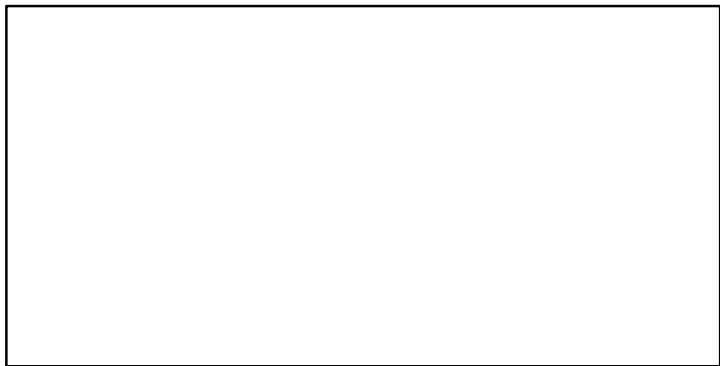
TB*



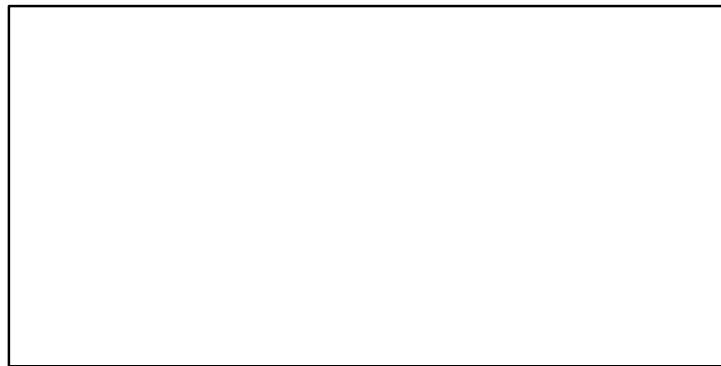
SSB*



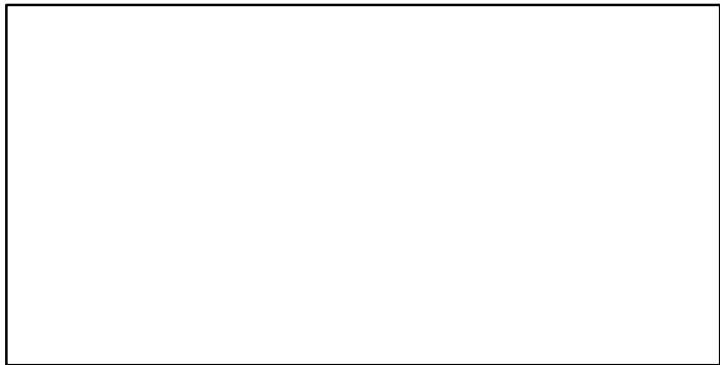
TN *



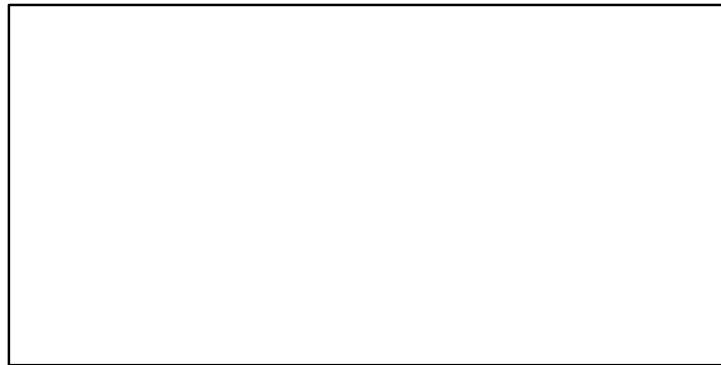
F*



ER*



Recruits*

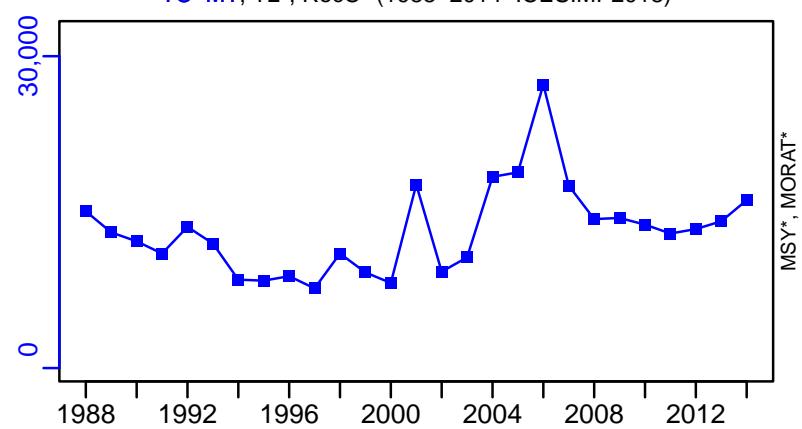


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

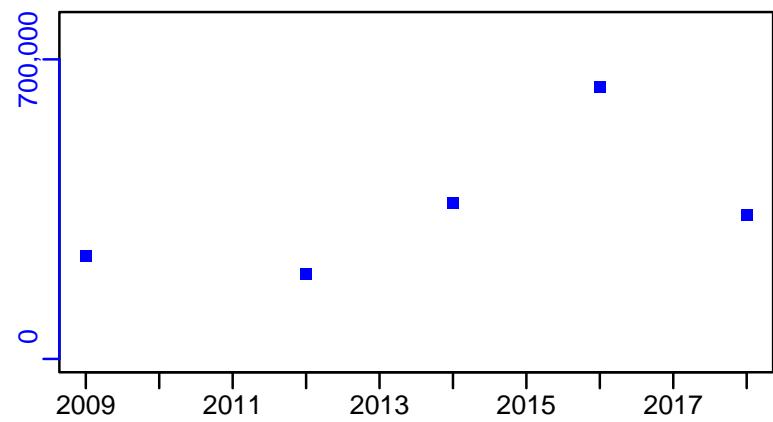
TC–MT, TL*, RecC* (1988–2014–ICESIMP2018)

TAC*, Cpair*, Cadv*



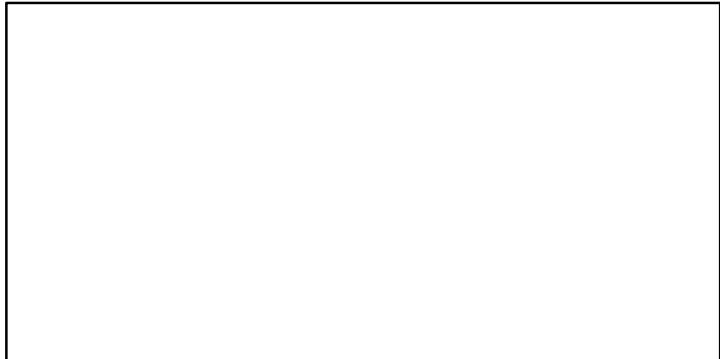
survB–MT (1988–2018–ICESIMP2021)

CPUE*



EFFORT*

CdivMSY*



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

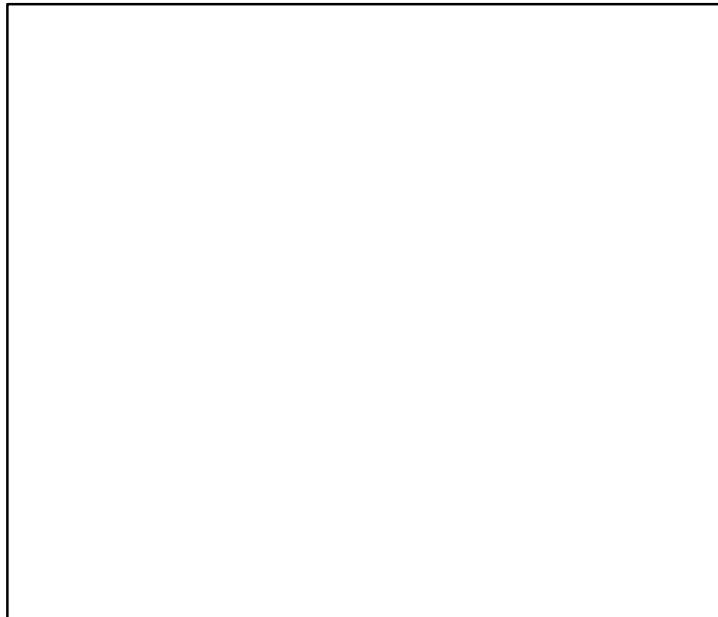
Greater silver smelt ICES 6b-7-8-9-10-12 [GSSMELTVIb-VII-VIII-IX-X-XII]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTVIb-VII-VIII-IX-X-XII-1966-2020-ICESIMP2021-2
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, 2020, 2018

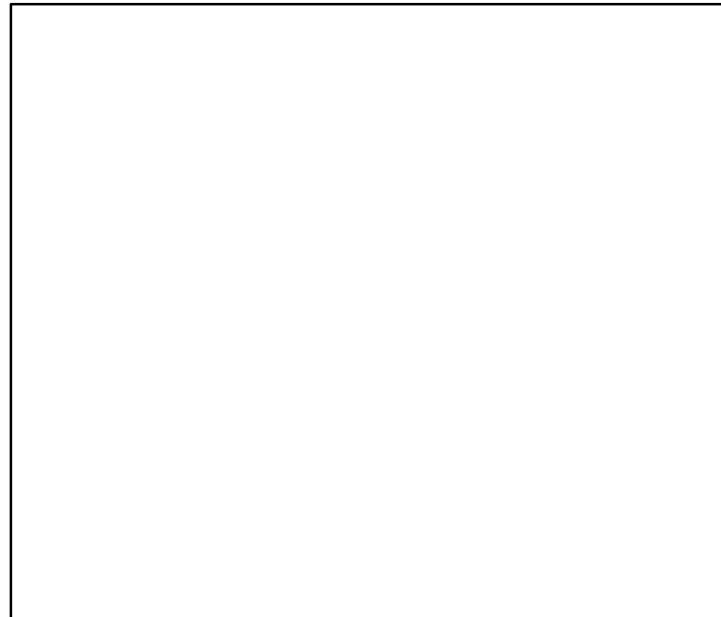
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	172		
TL	TL-MT	2020	76		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

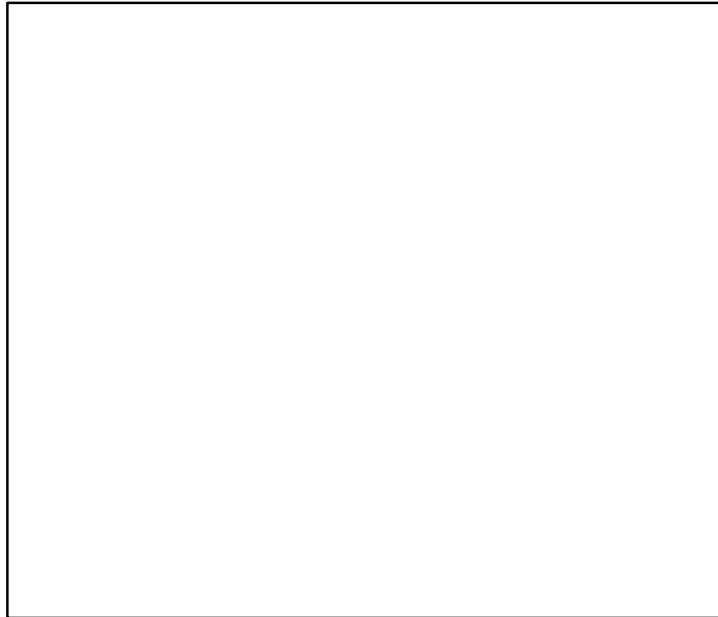
Kobe MSY*



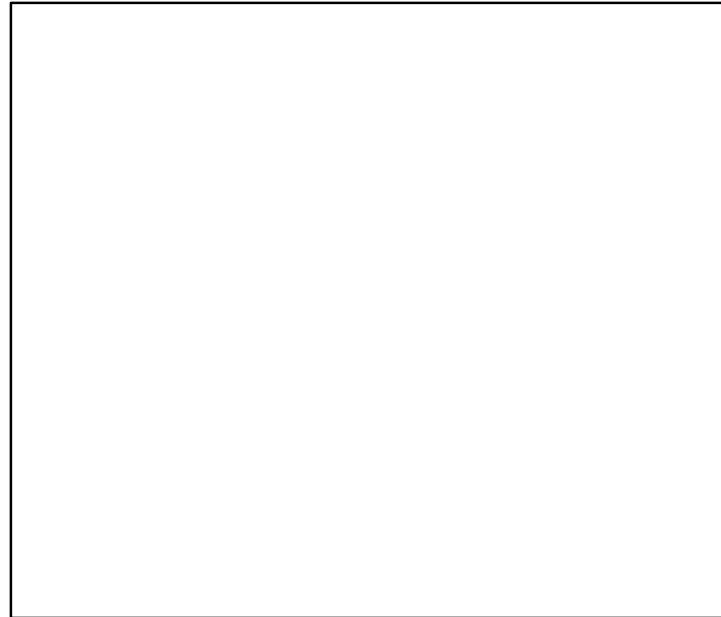
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

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

TB*



SSB*



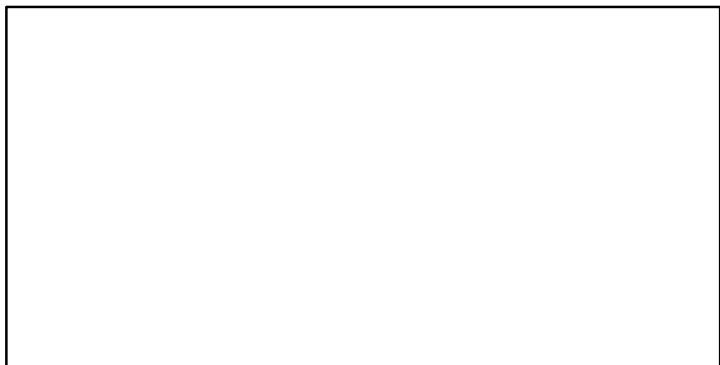
TN *



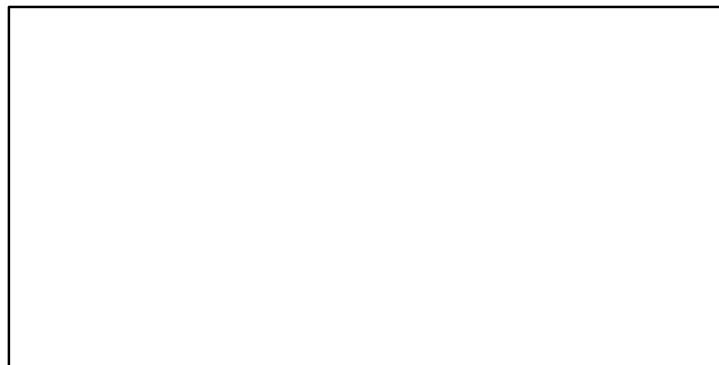
F*



ER*



Recruits*

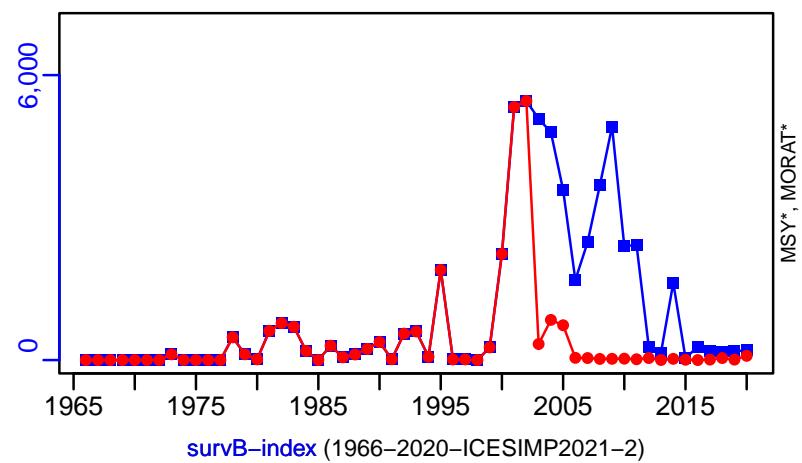


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

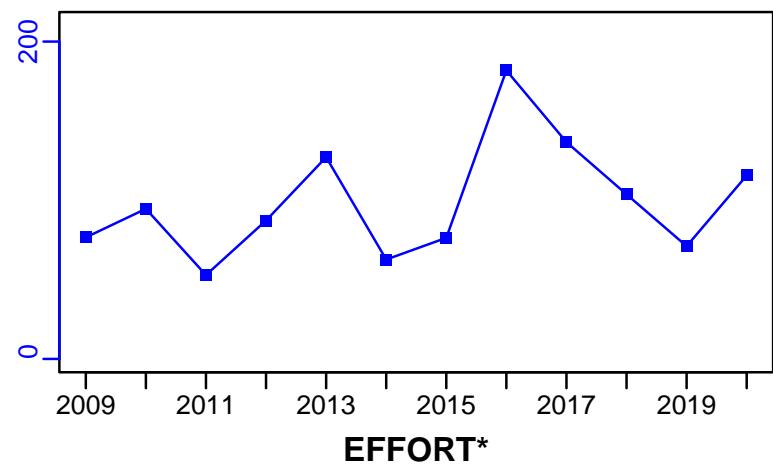
TC–MT, TL–MT, RecC* (1966–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



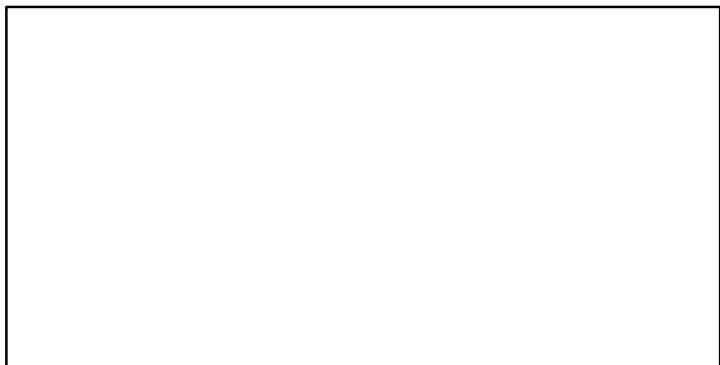
survB-index (1966–2020–ICESIMP2021–2)

MSY*, MORAT*

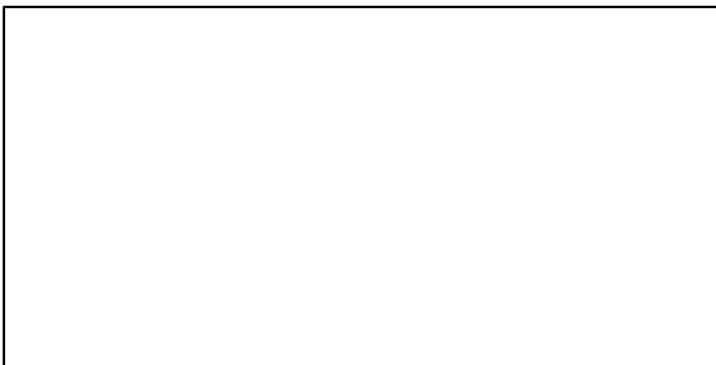


EFFORT*

CPUE*



CdivMSY*



Haddock Irish Sea [HADIS]

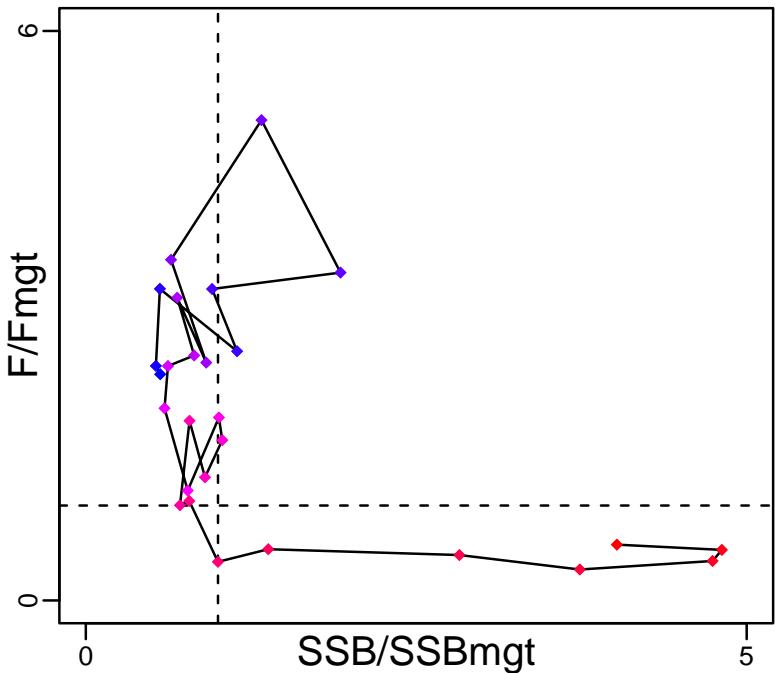
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADIS-1993-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2016, 2017, 2019, 2020, 2021,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

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

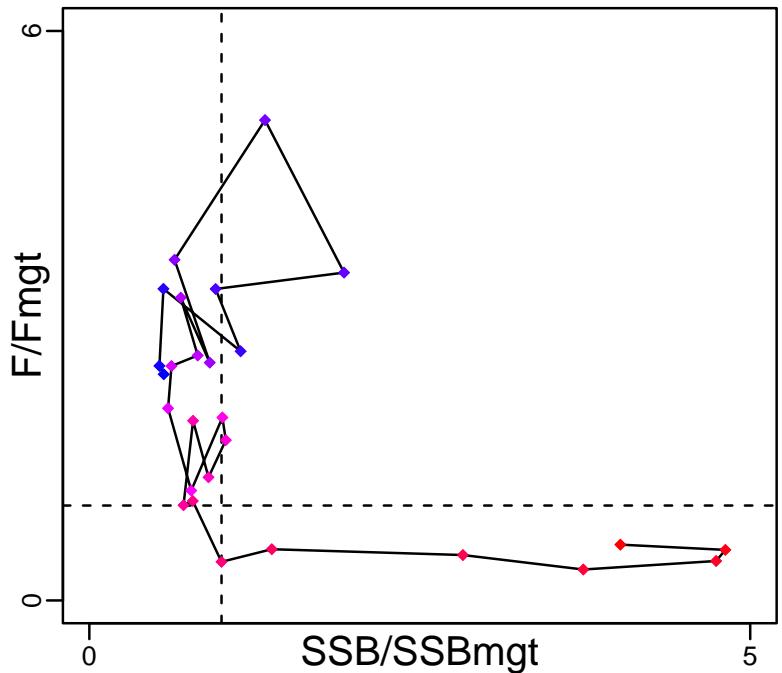
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	28,668	-	-
SSB	SSB-MT	2021	17,400	-	-
TN	-	-	-	-	-
R	R-E00	2021	372,000	-	0
F	F-1/yr	2021	0.066	-	-
ER	ER-calc-ratio	2019	0.089	-	-
TC	TC-MT	2021	975		
TL	TL-MT	2021	742		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021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

Haddock Irish Sea [HADIS]

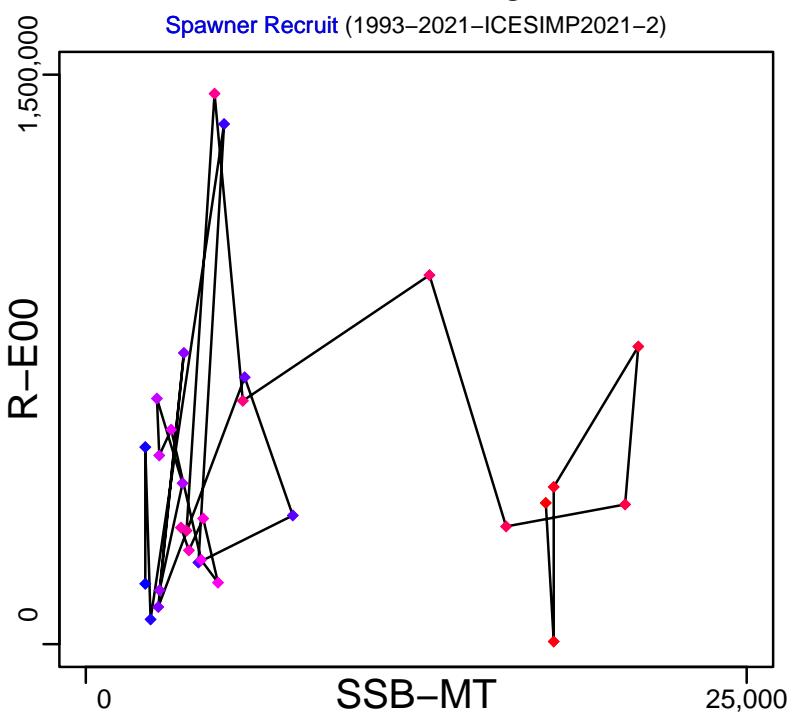
Kobe MSYpref (1993–2020–ICESIMP2021–2)



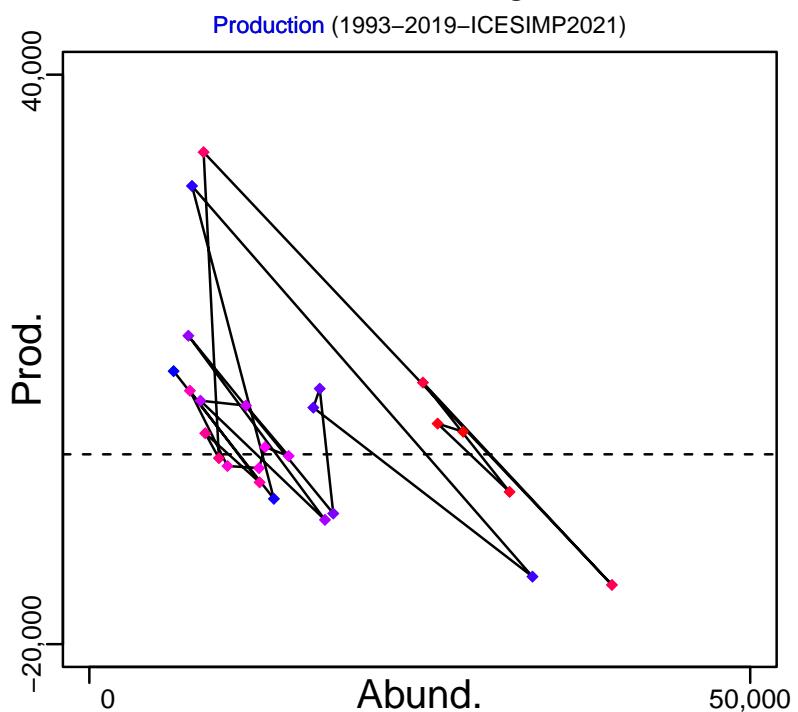
Kobe MGTpref (1993–2020–ICESIMP2021–2)



Spawner Recruit (1993–2021–ICESIMP2021–2)



Production (1993–2019–ICESIMP2021)

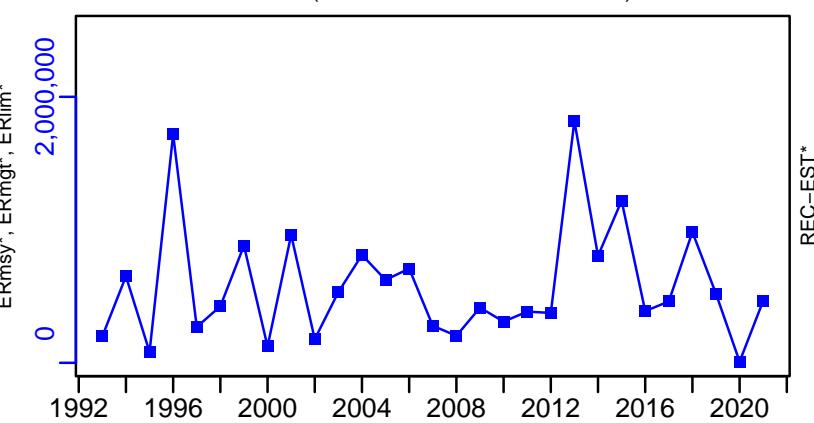
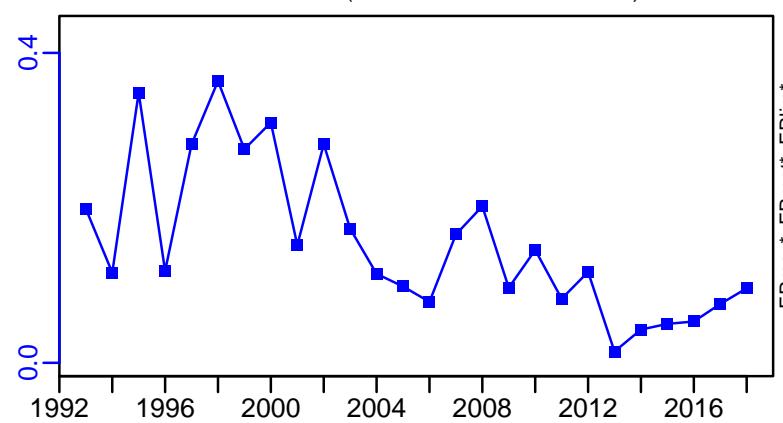
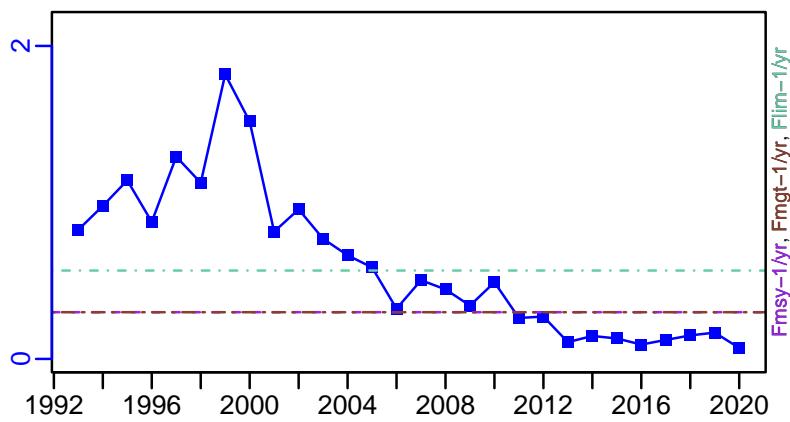
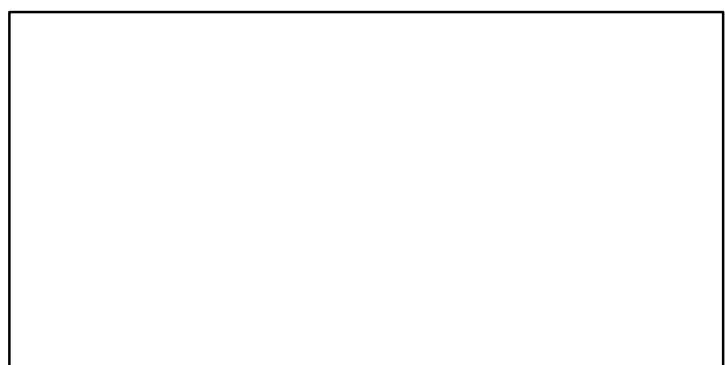
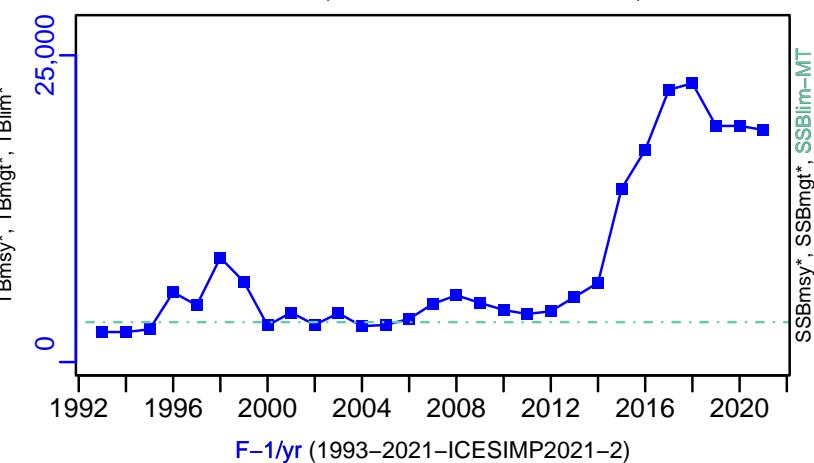
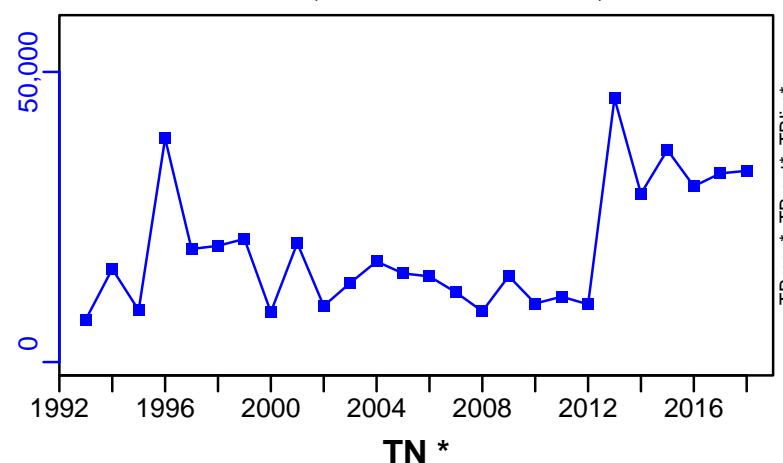


◆ Start Year ◆ End Year * No Data

Haddock Irish Sea [HADIS]

TB-MT (1993–2019–ICESIMP2021)

SSB-MT (1993–2021–ICESIMP2021–2)

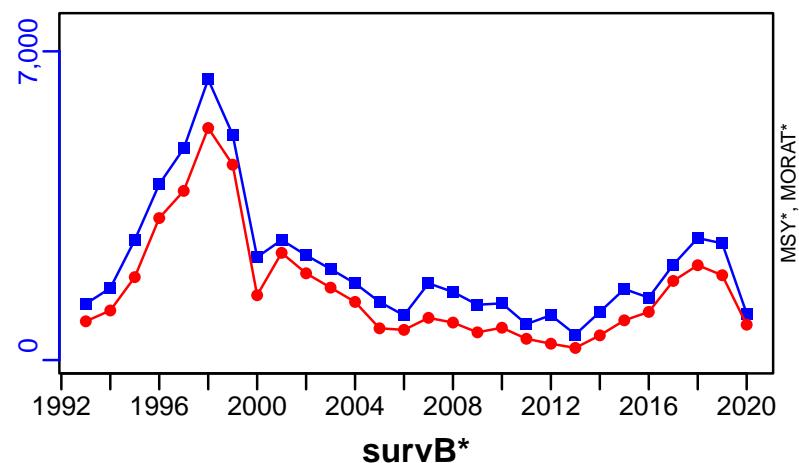


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Haddock Irish Sea [HADIS]

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

TAC*, Cpair*, Cadv*



survB*

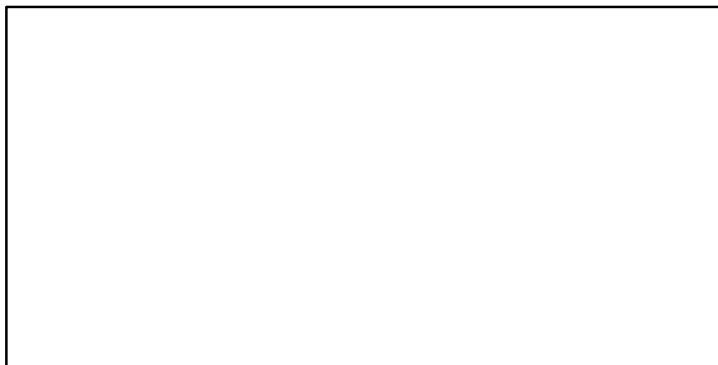
MSY*, MORAT*



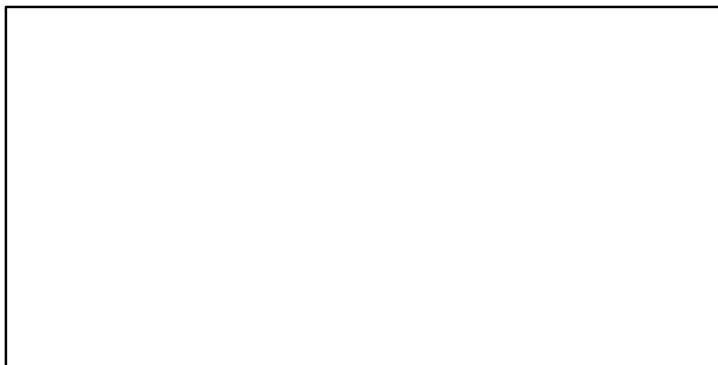
CPUE*



EFFORT*



CdivMSY*



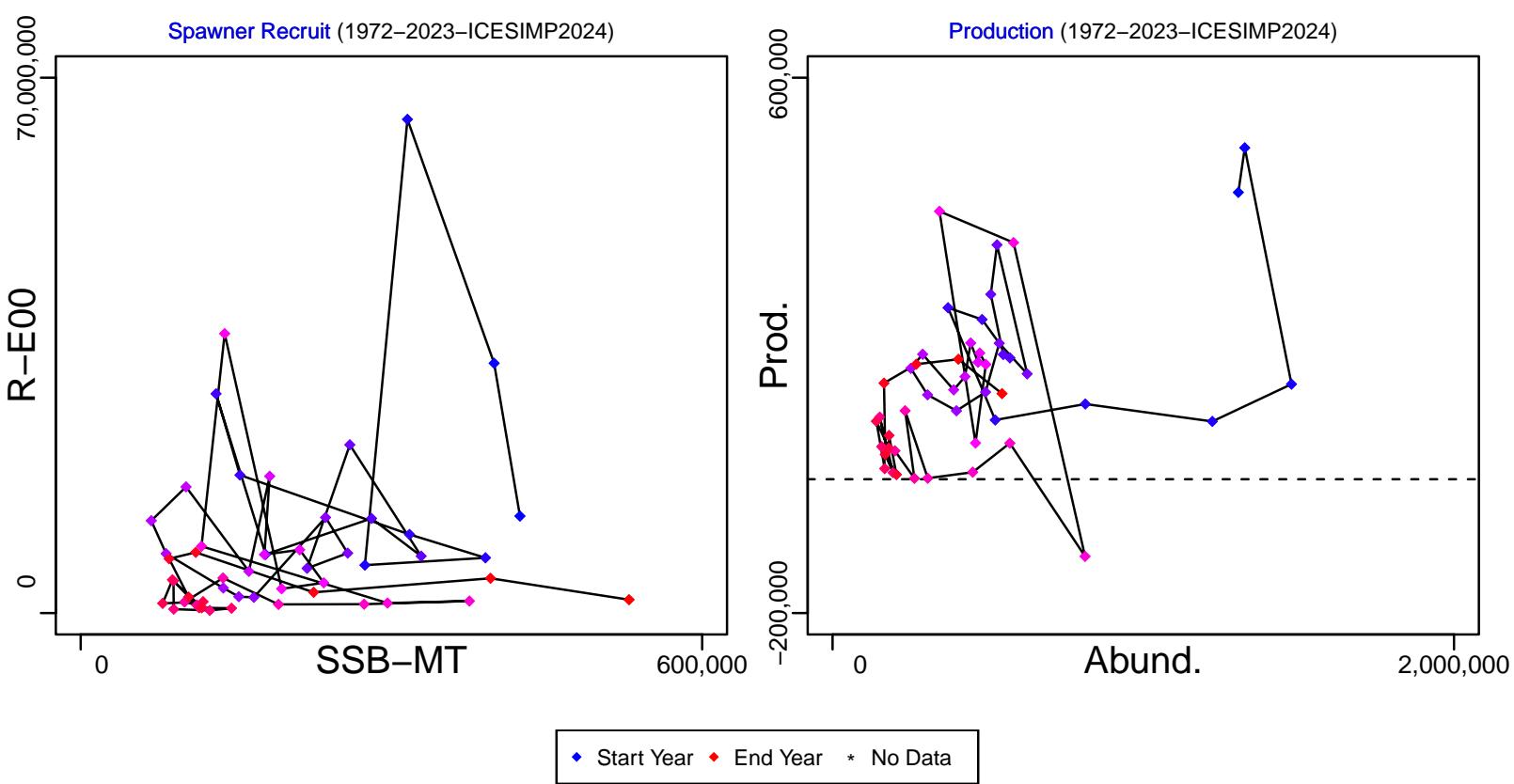
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

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

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGNSSK-HADNS-IIIA-VIa-1972-2023-ICESIMP2024
Area	ICES 3a-4-6a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2015, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023

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

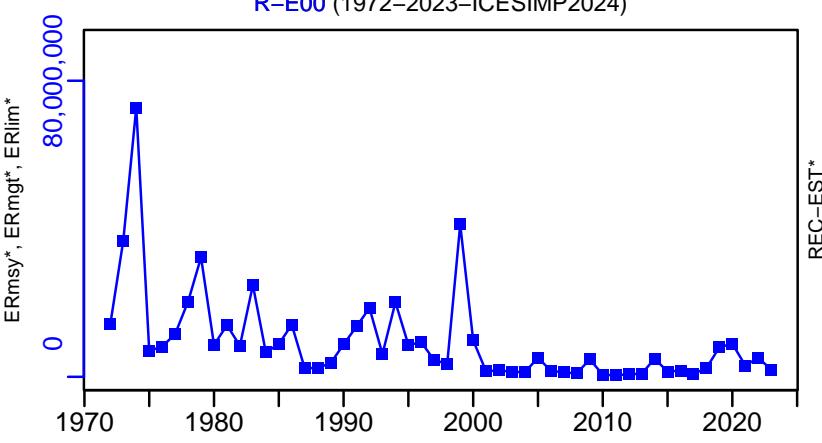
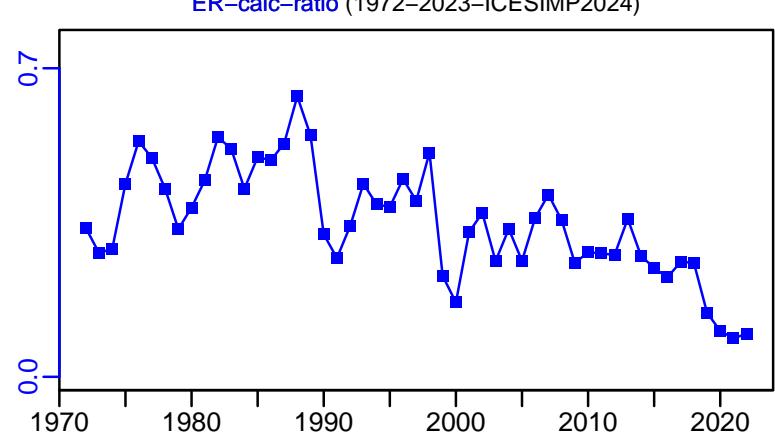
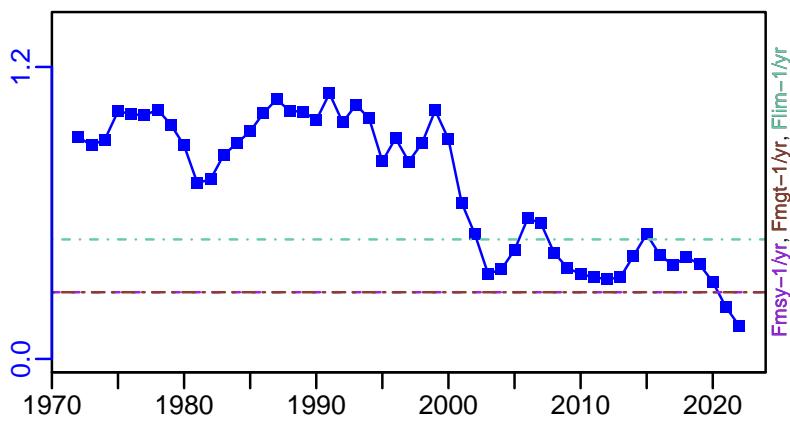
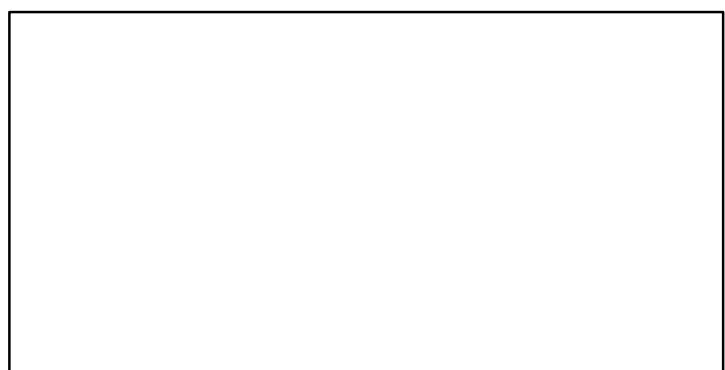
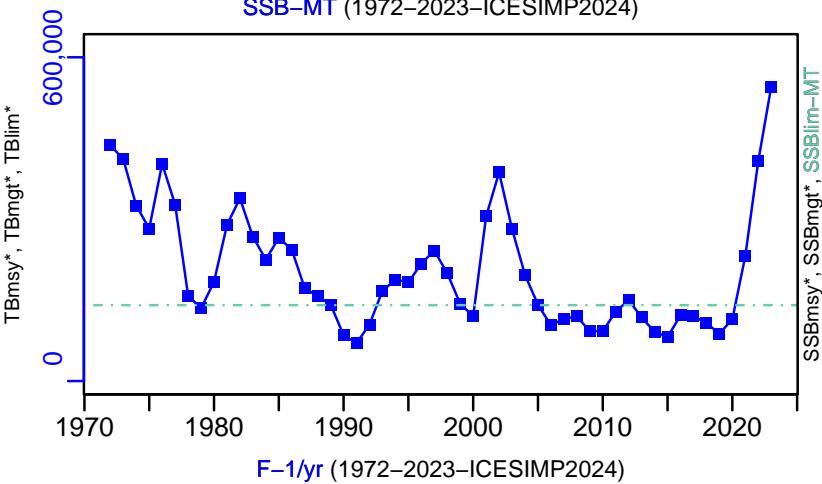
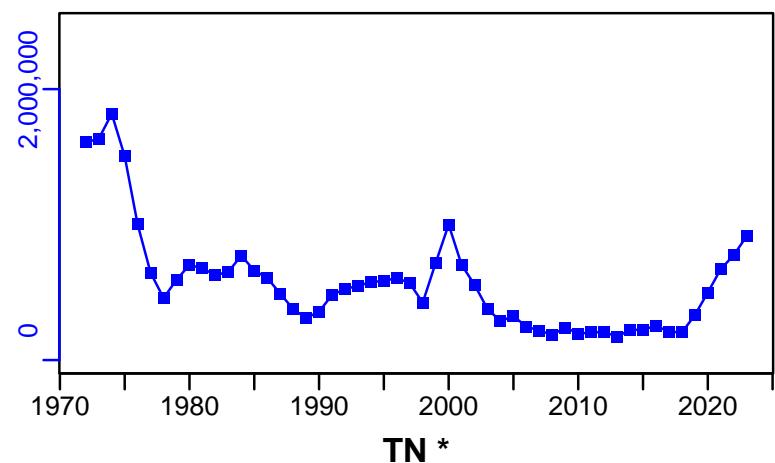
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	743,019	-	-	
SSB	SSB-MT	2023	529,443	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	1,746,116	-	0	
F	F-1/yr	2023	0.119	-	2 to 4	
ER	ER-calc-ratio	2023	0.09	-	-	
TC	TC-MT	2023	56,849			
TL	TL-MT	2023	37,392			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-		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

Kobe MSY***Kobe MGT***

Haddock ICES 3a–4–6a [HADNS–IIIa–VIa]

TB-MT (1972–2023–ICESIMP2024)

SSB-MT (1972–2023–ICESIMP2024)

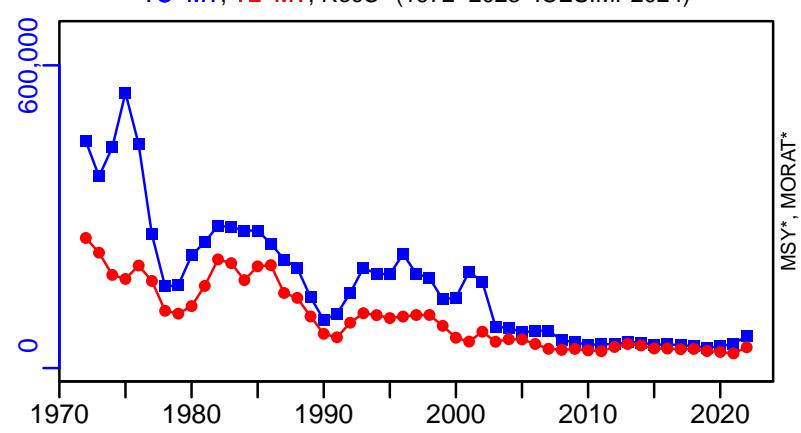


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

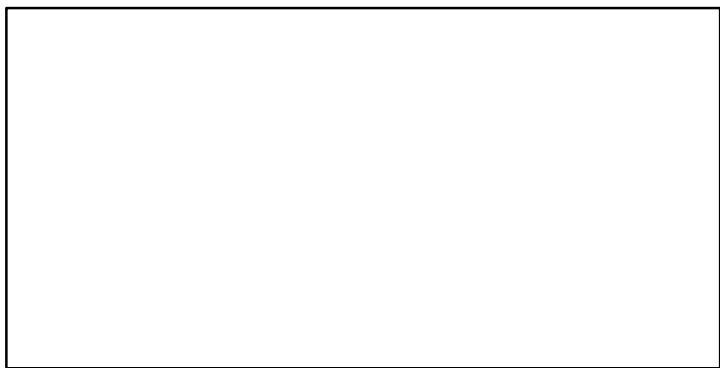
Haddock ICES 3a–4–6a [HADNS–IIIa–VIa]

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

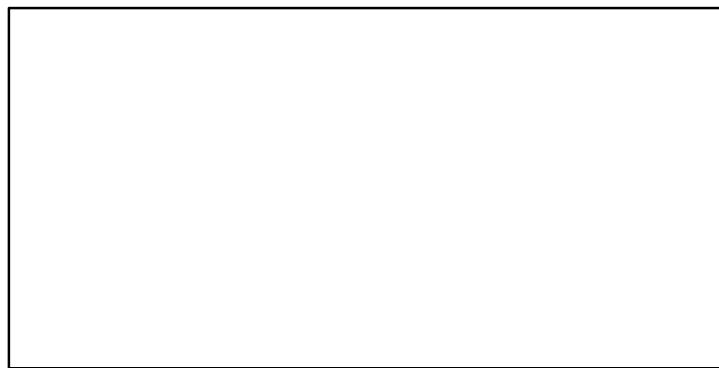
TAC*, Cpair*, Cadv*



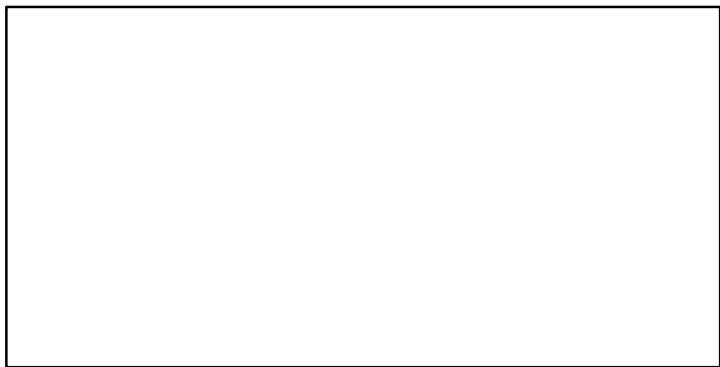
survB*



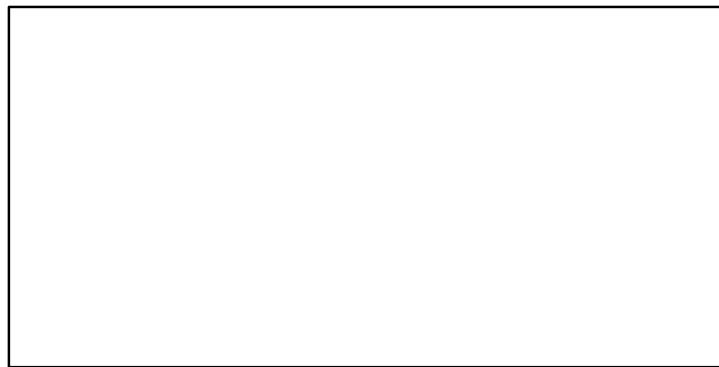
CPUE*



EFFORT*



CdivMSY*

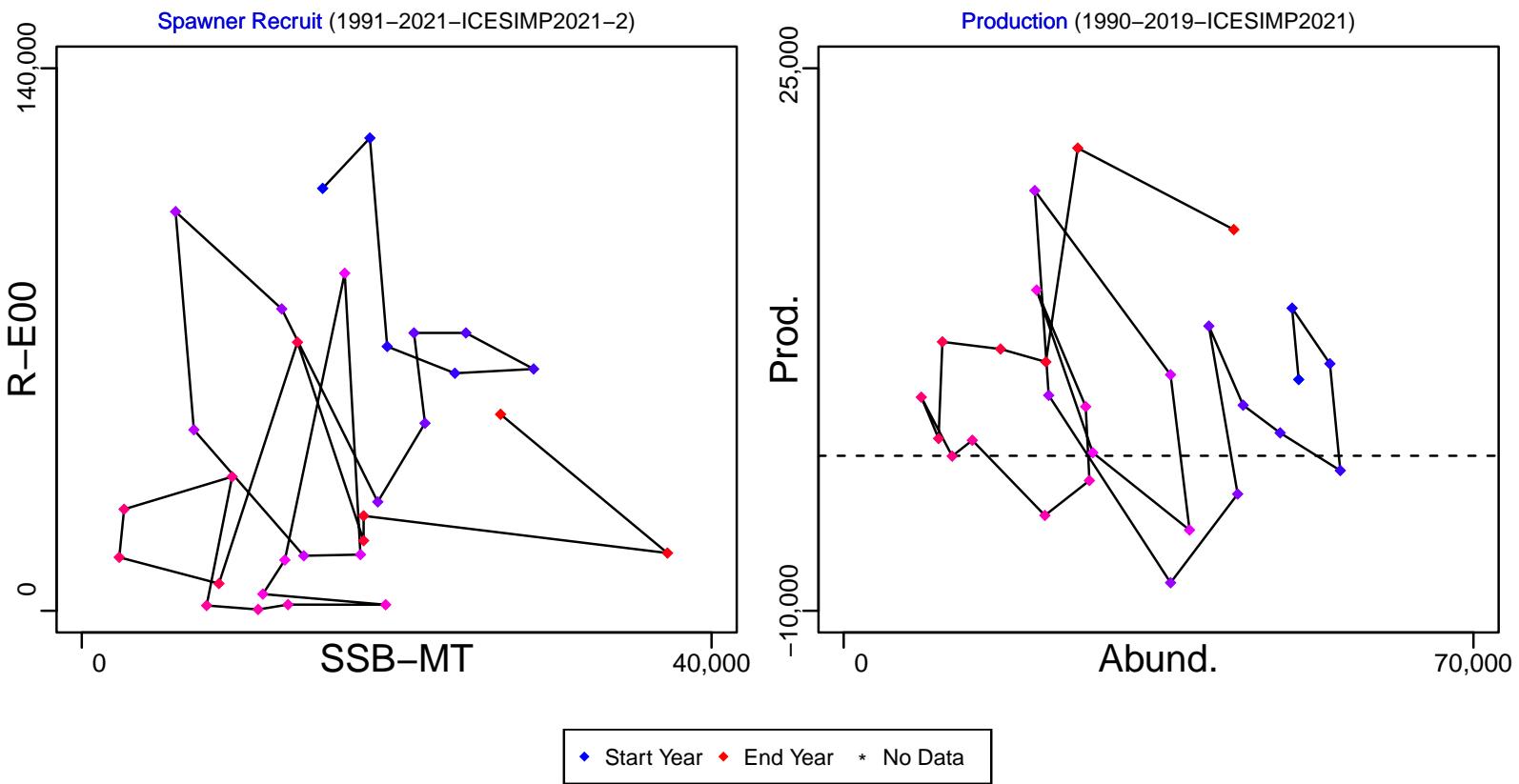


Haddock Rockall Bank [HADROCK]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADROCK-1991-2021-ICESIMP2024
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021, 2021, 2012

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

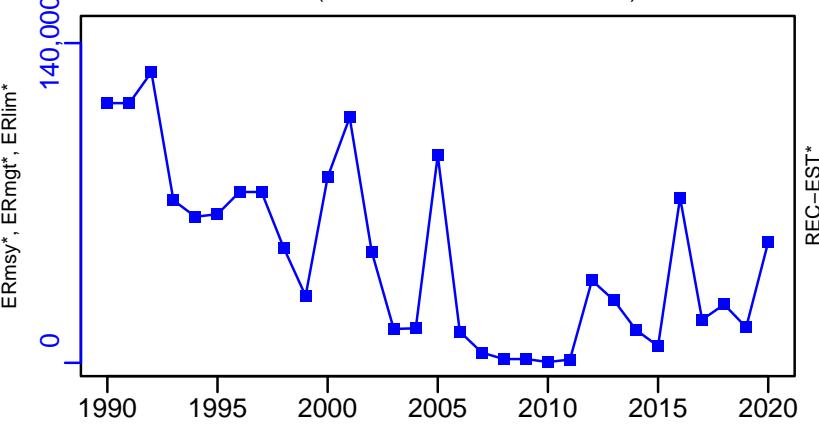
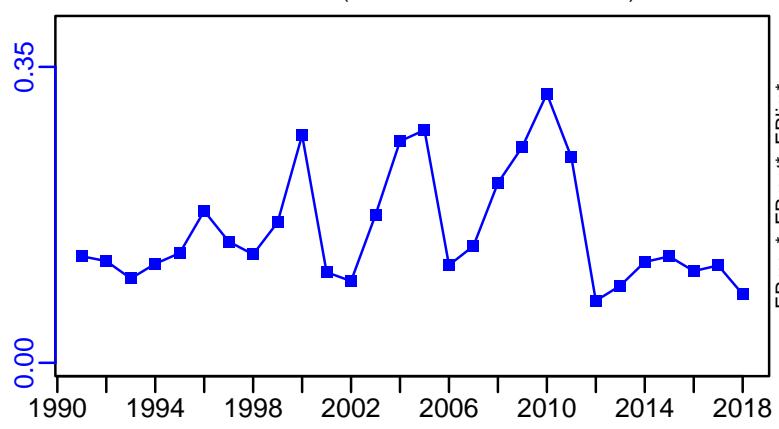
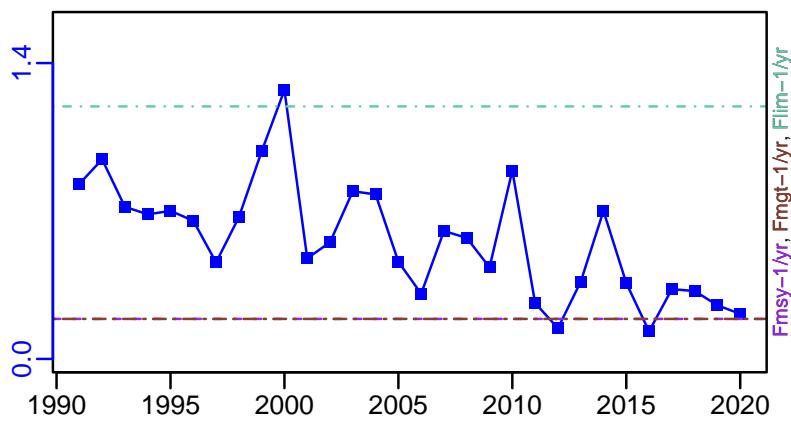
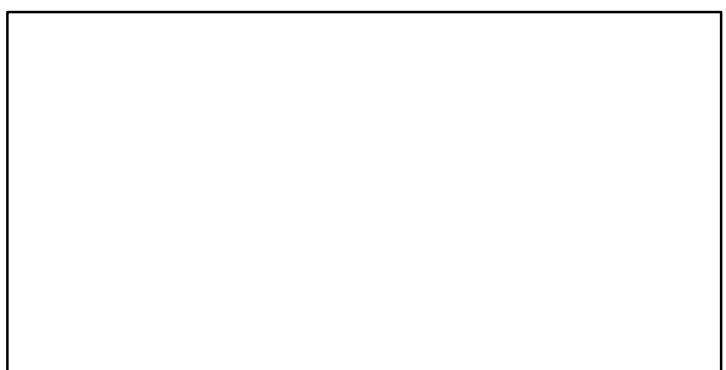
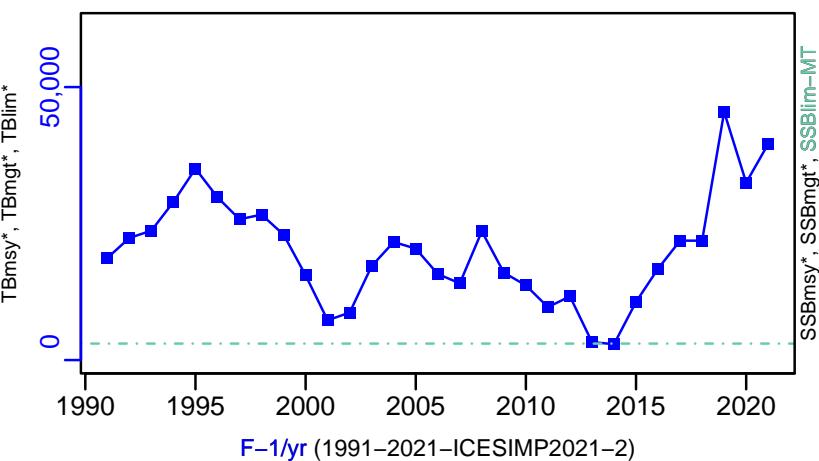
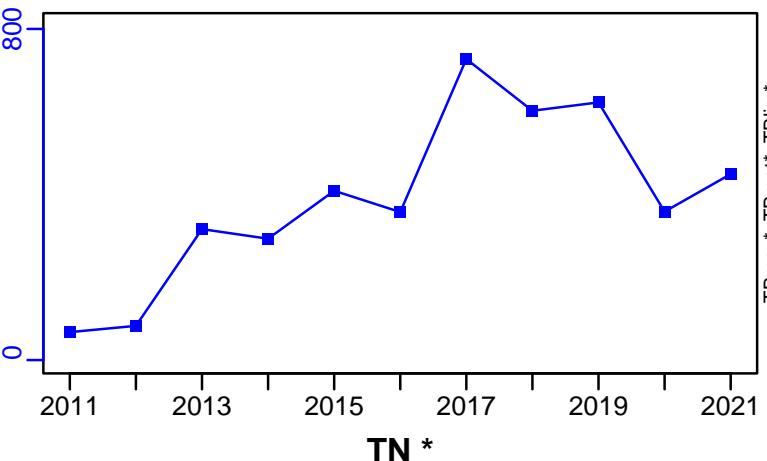
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-index	2021	446	-	-
SSB	SSB-MT	2021	32,400	-	-
TN	-	-	-	-	-
R	R-E00	2021	50,700	-	1
F	F-1/yr	2021	0.189	-	-
ER	ER-calc-ratio	2019	0.072	-	-
TC	TC-MT	2021	5640		
TL	TL-MT	2021	5510		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Kobe MSY***Kobe MGT***

Haddock Rockall Bank [HADROCK]

TB-index (1991–2021–ICESIMP2024)

SSB-MT (1991–2021–ICESIMP2021–2)

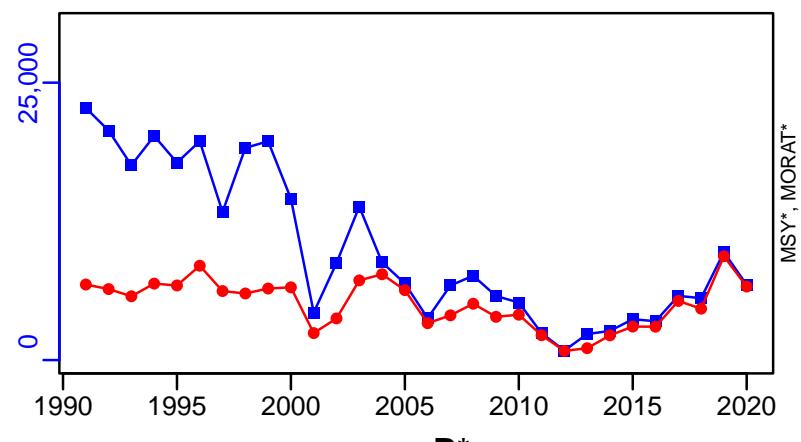


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

Haddock Rockall Bank [HADROCK]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

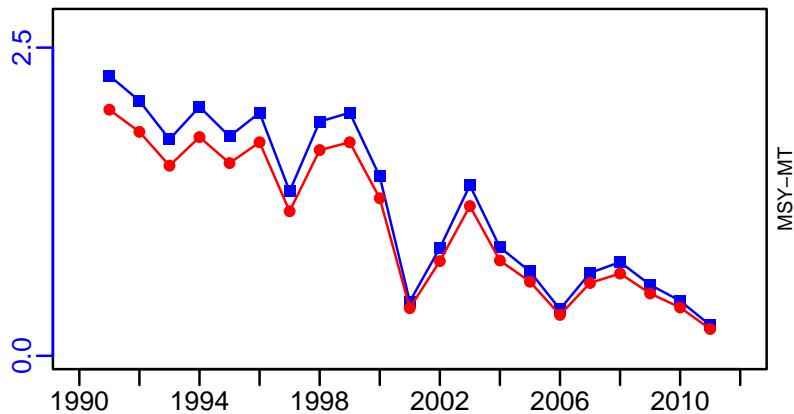
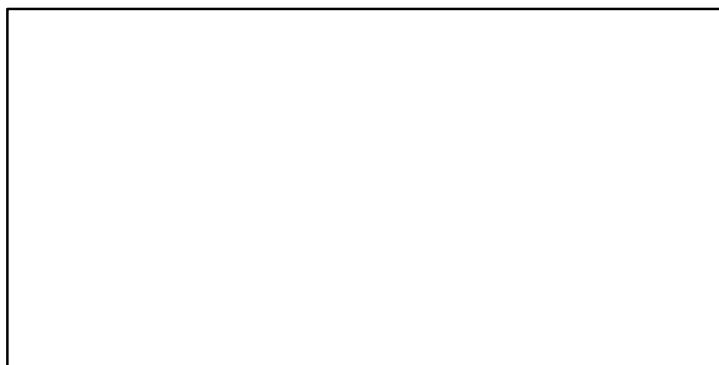


CPUE*



EFFORT*

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



MSY-MT

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

Haddock ICES 7b-k [HADVIIb-k]

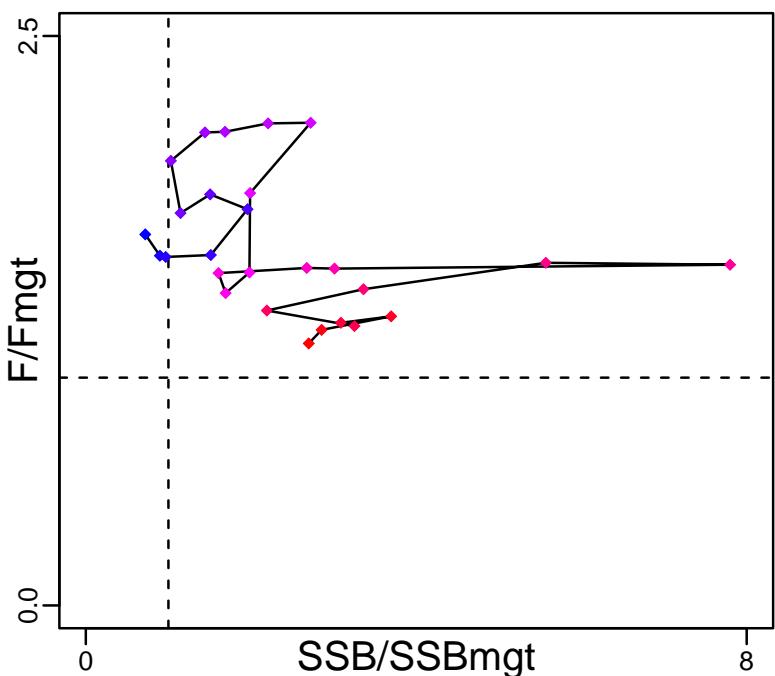
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADVIIb-k-1993-2023-ICESIMP2024
Area	ICES 7b-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021,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

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

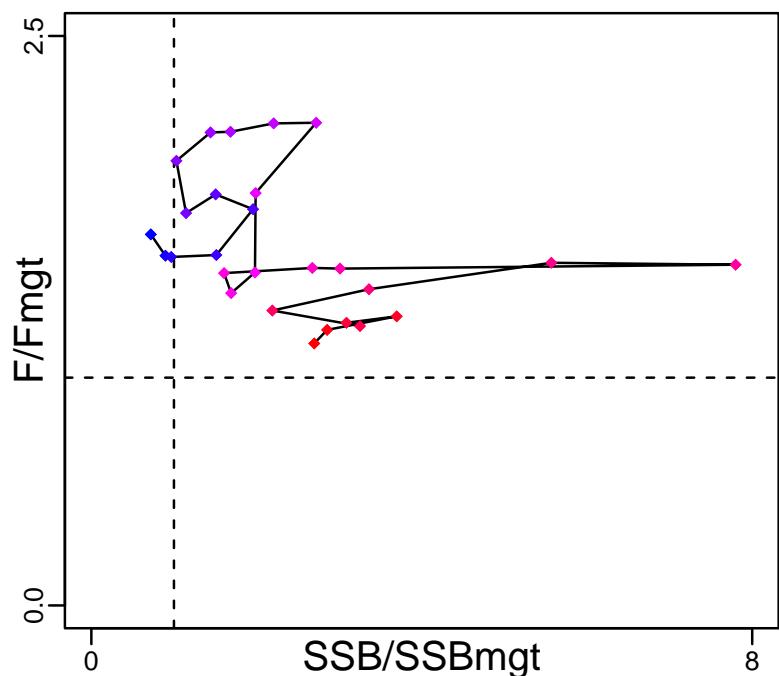
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	74,659	-	-	
SSB	SSB-MT	2023	42,660	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	224,539	-	0	
F	F-1/yr	2023	0.417	-	3 to 5	
ER	ER-calc-ratio	2019	0.168	-	-	
TC	TC-MT	2023	11,668			
TL	TL-MT	2023	8895			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

Haddock ICES 7b–k [HADVIIb–k]

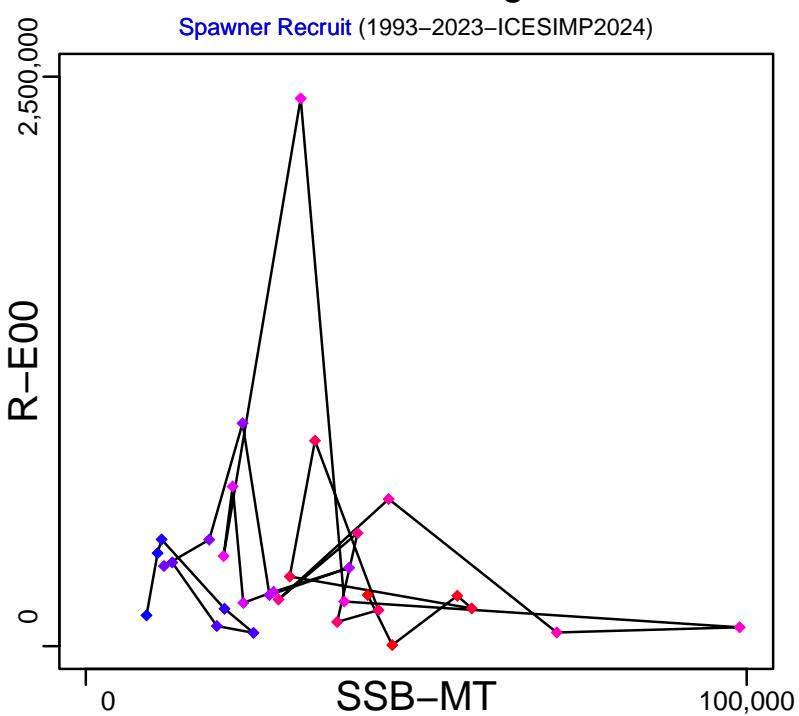
Kobe MSYpref (1993–2020–ICESIMP2021–2)



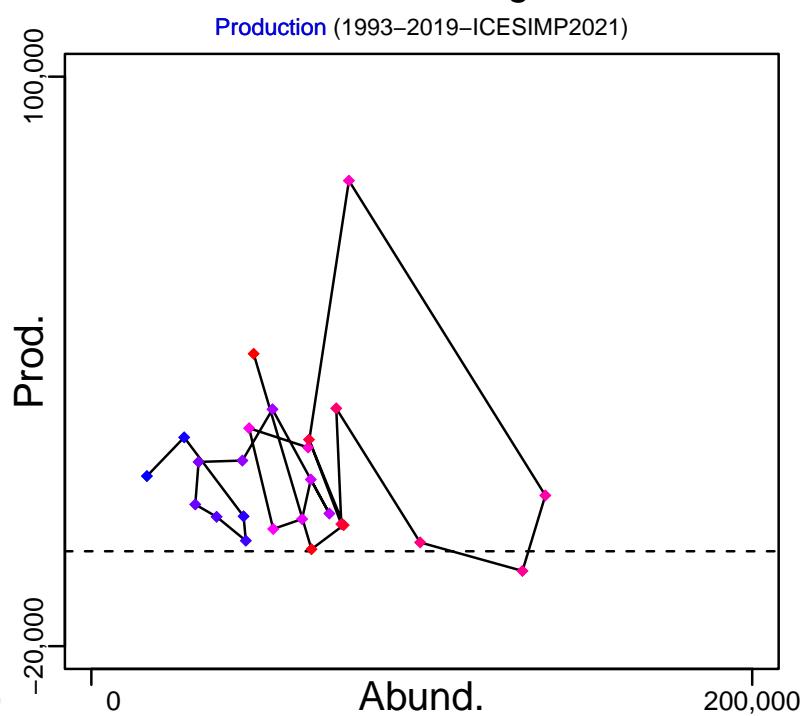
Kobe MGTpref (1993–2020–ICESIMP2021–2)



Spawner Recruit (1993–2023–ICESIMP2024)



Production (1993–2019–ICESIMP2021)

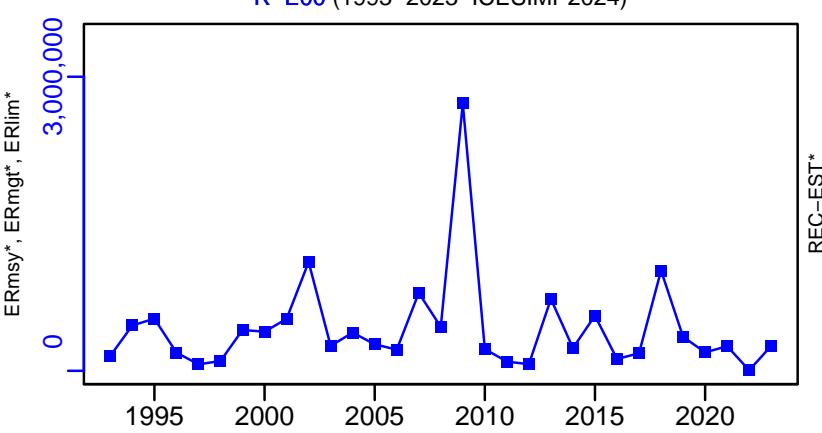
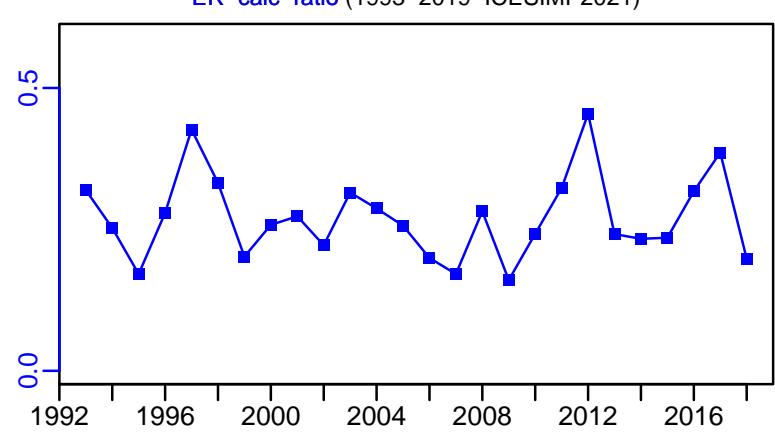
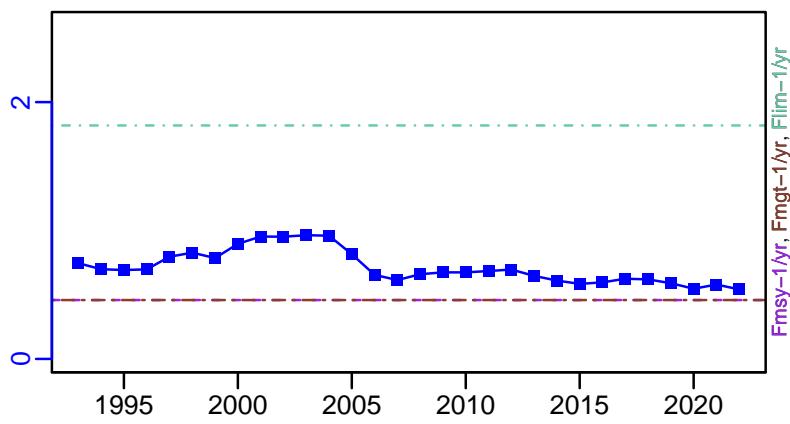
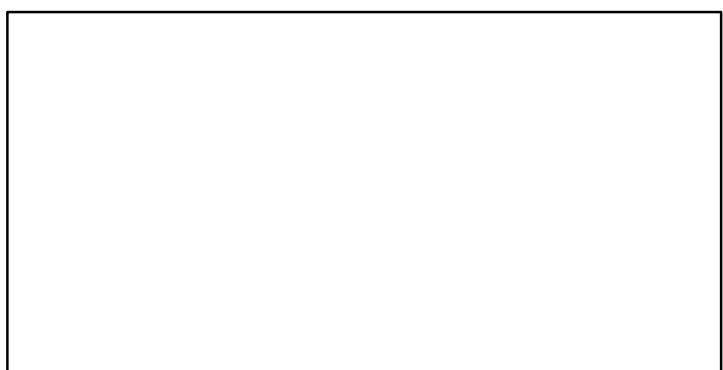
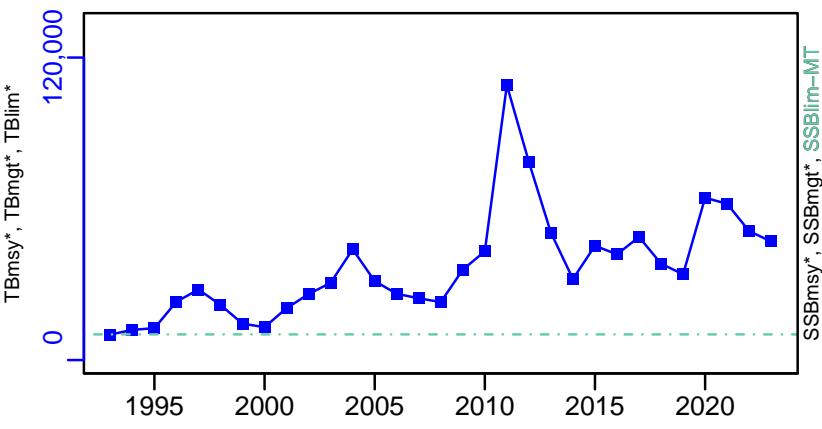
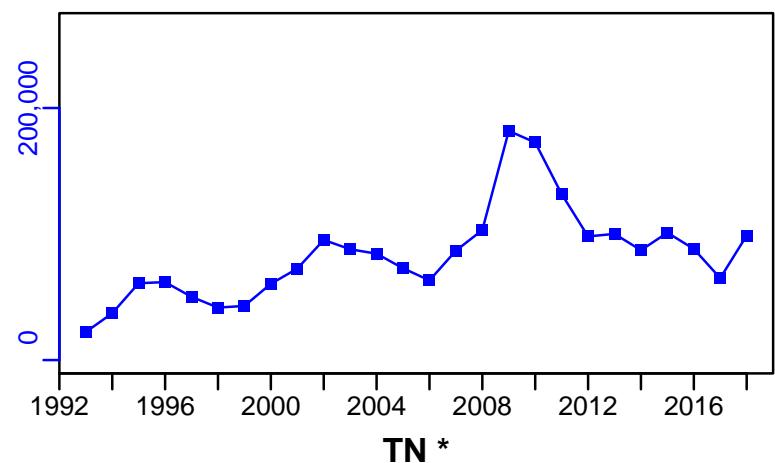


◆ Start Year	◆ End Year	*	No Data
--------------	------------	---	---------

Haddock ICES 7b–k [HADVIIb–k]

TB-MT (1993–2019–ICESIMP2021)

SSB-MT (1993–2023–ICESIMP2024)

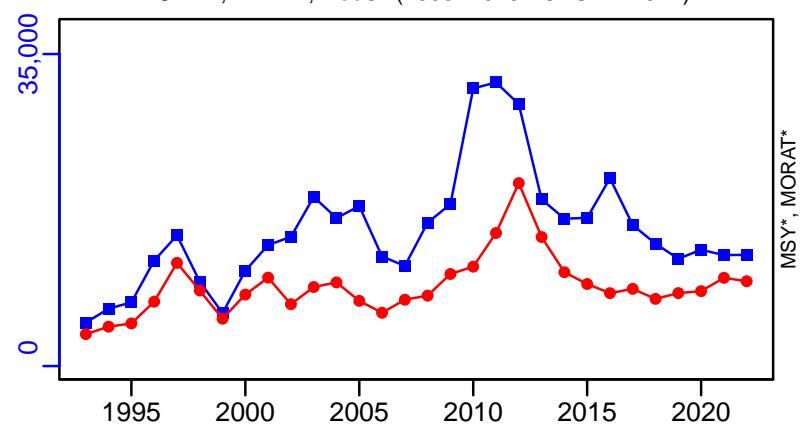


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Haddock ICES 7b–k [HADVIIb–k]

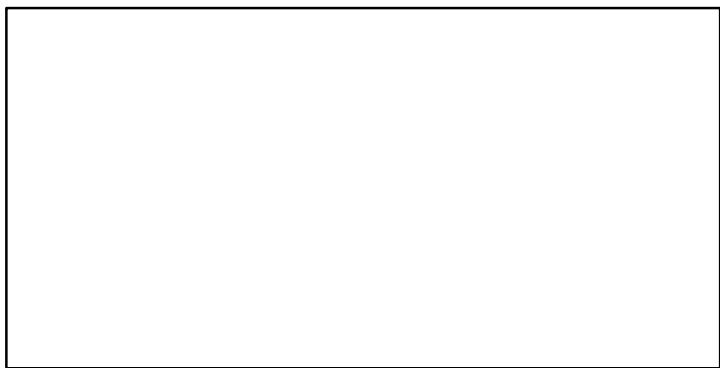
TC–MT, TL–MT, RecC* (1993–2023–ICESIMP2024)

TAC*, Cpair*, Cadv*

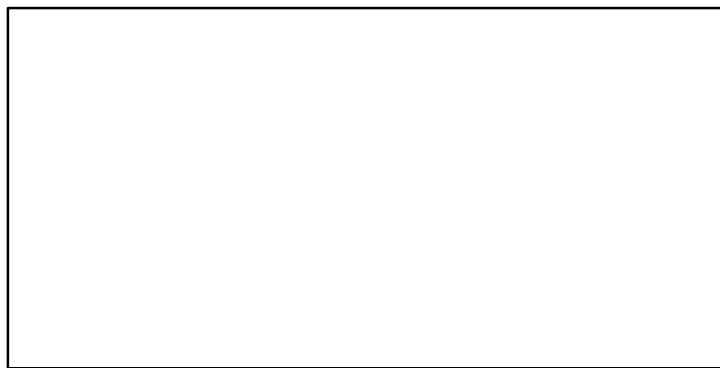


survB*

MSY*, MORAT*



CPUE*



EFFORT*



CdivMSY*

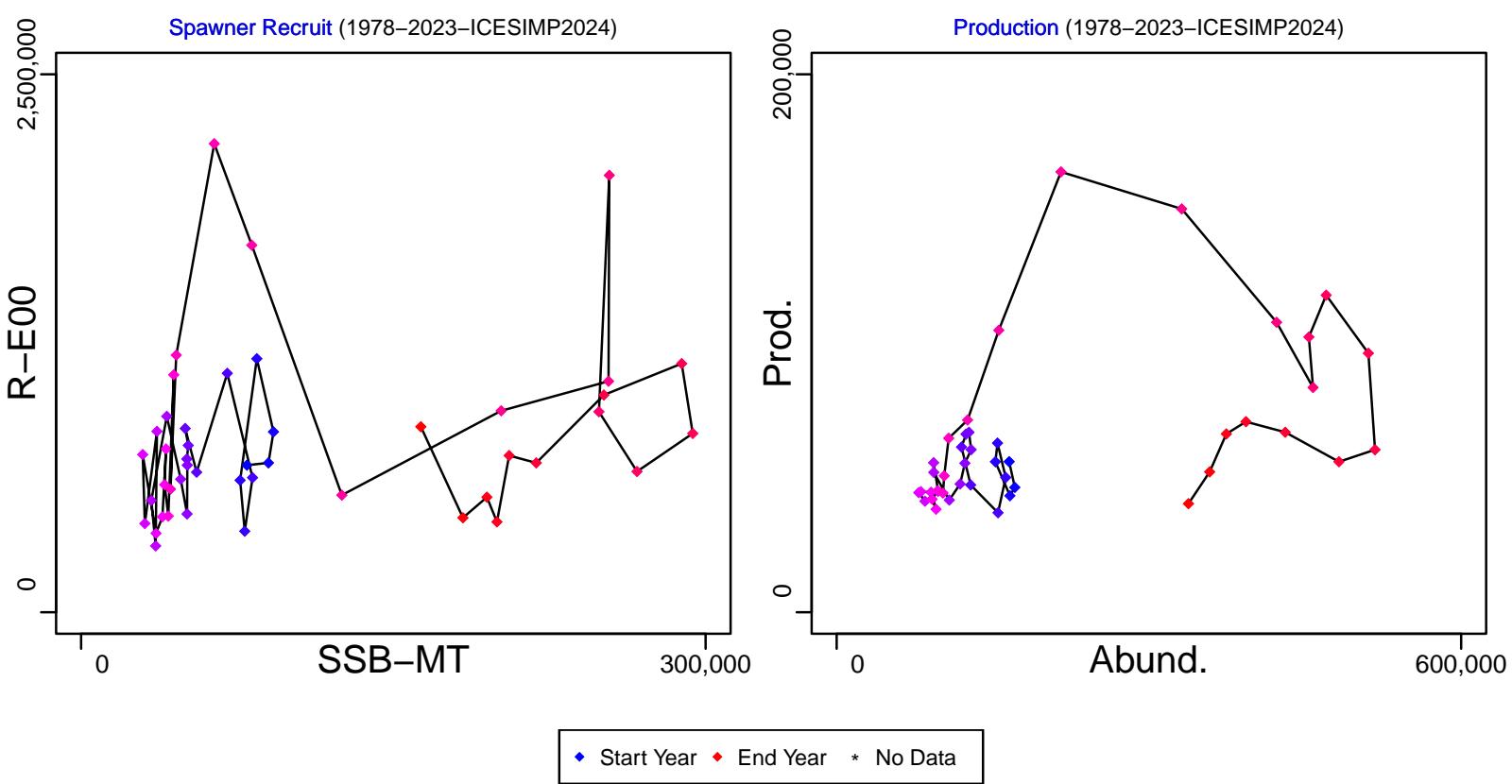


Hake ICES 3a-4-6-7-8abd [HAKENRTN]

Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKENRTN-1978-2023-ICESIMP2024
Area	ICES 3a-4-6-7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023, 2011

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

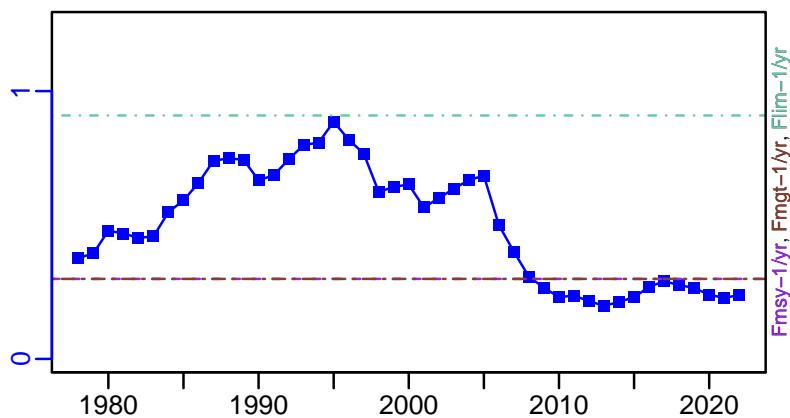
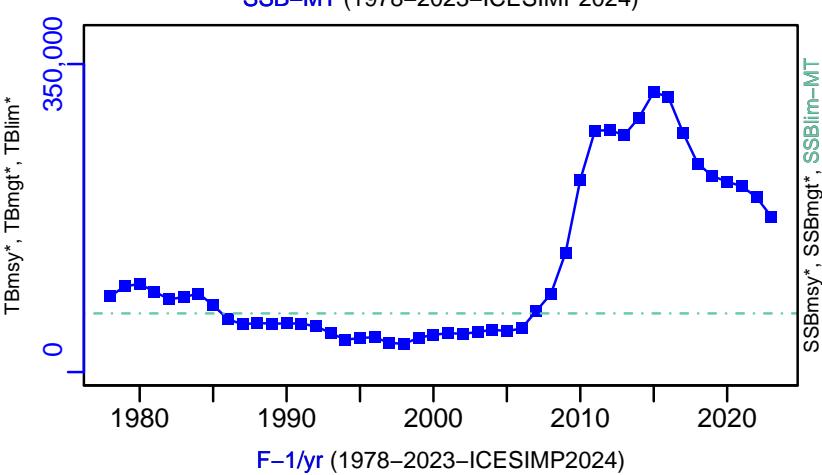
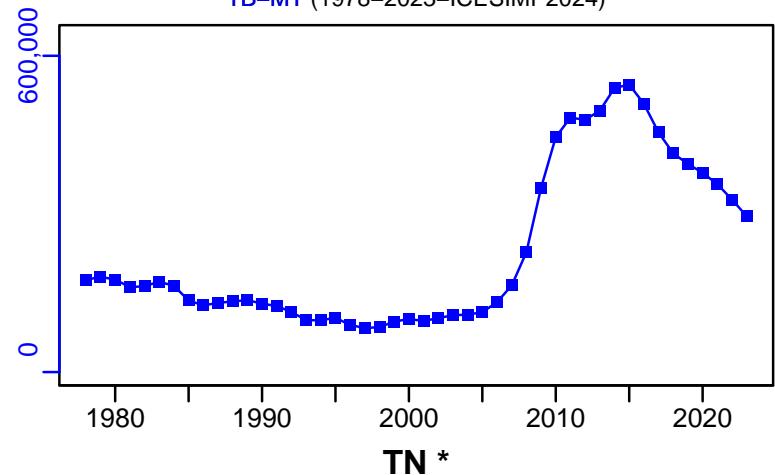
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	280,323	-	-	
SSB	SSB-MT	2023	163,204	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	862,134	-	0	
F	F-1/yr	2023	0.191	-	1 to 7	
ER	ER-calc-ratio	2023	0.217	-	-	
TC	TC-MT	2021	75,800			
TL	TL-MT	2023	67,433			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			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

Kobe MSY***Kobe MGT***

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

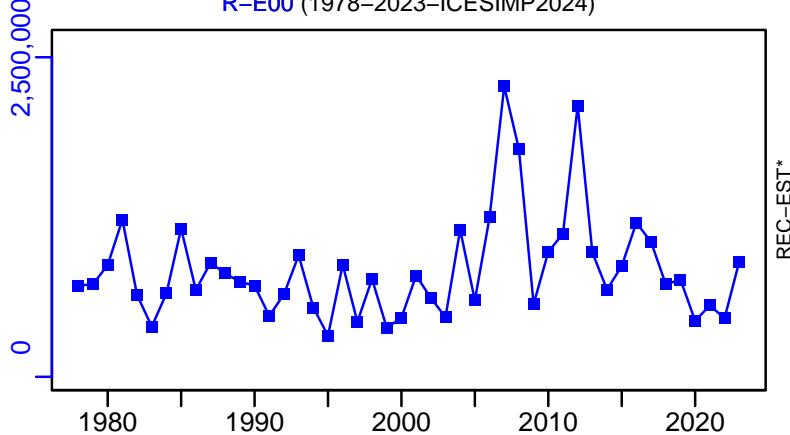
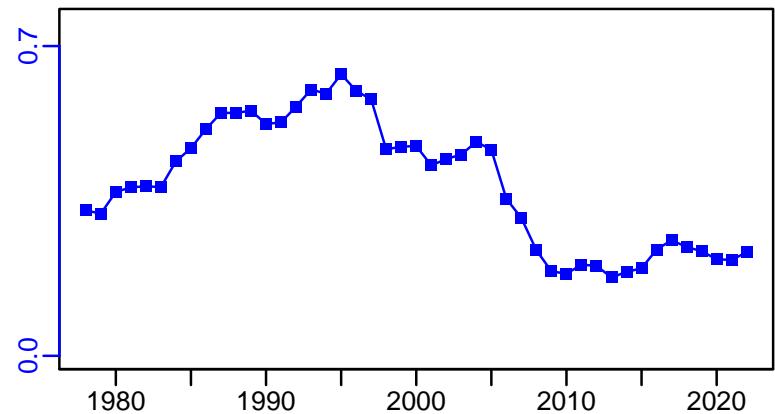
TB-MT (1978–2023–ICESIMP2024)

SSB-MT (1978–2023–ICESIMP2024)



ER-calc-ratio (1978–2023–ICESIMP2024)

R-E00 (1978–2023–ICESIMP2024)

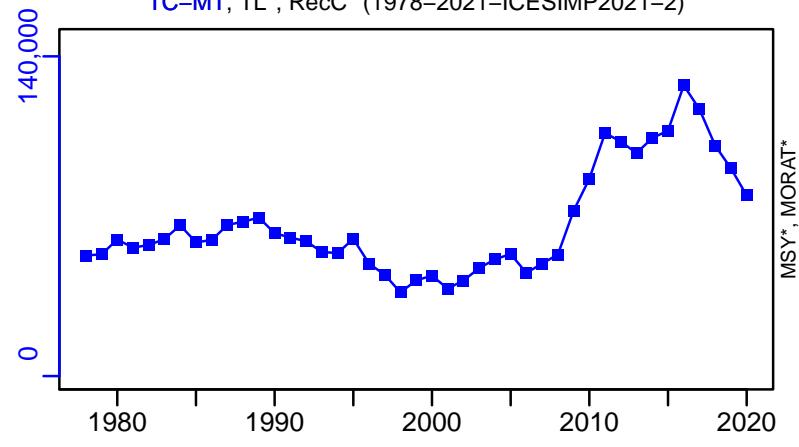


■ Listed time series	--- Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

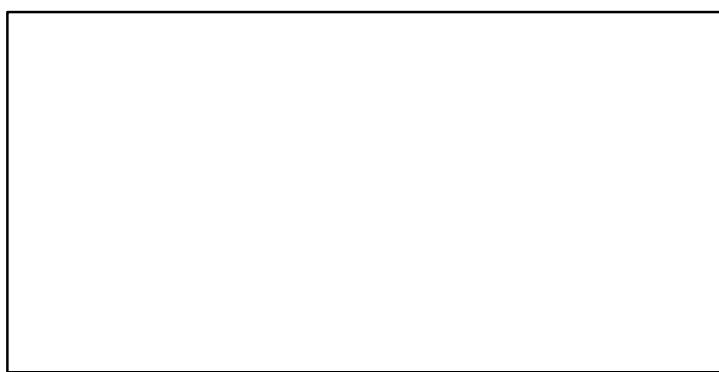
Hake ICES 3a-4-6-7-8abd [HAKENRTN]

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

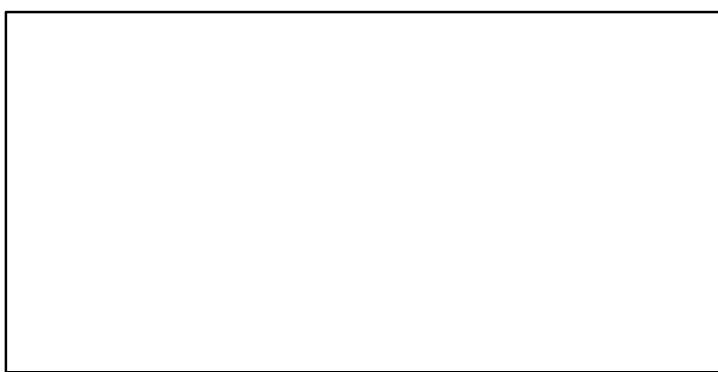
TAC*, Cpair*, Cadv*



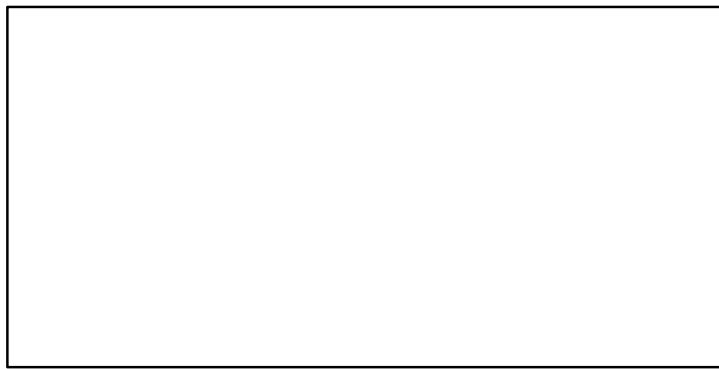
MSY*, MORAT*



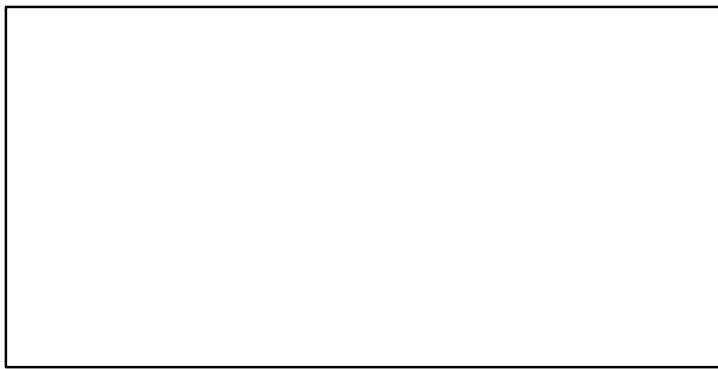
CPUE*



EFFORT*



CdivMSY*



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

Hake ICES 8c-9a [HAKESOTH]

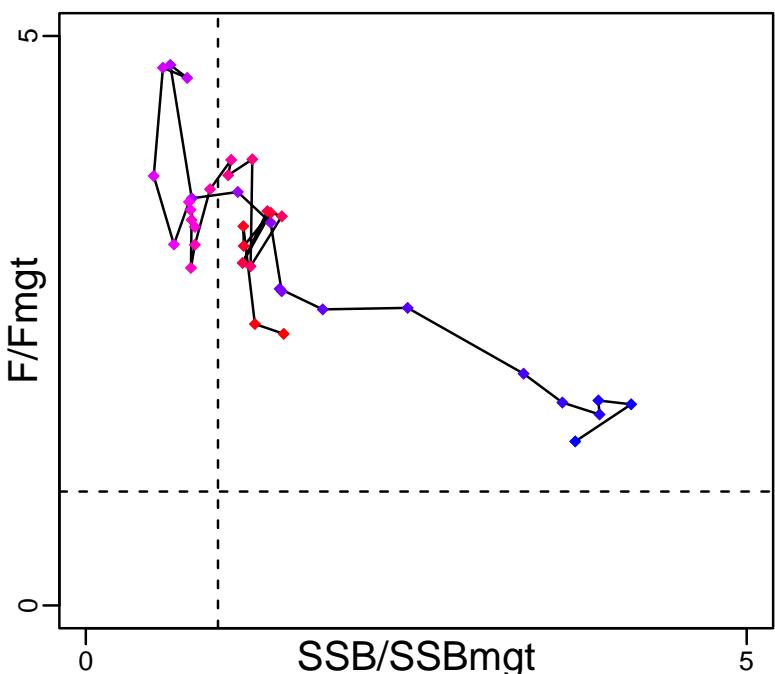
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKESOTH-1989-2020-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2019, 2020, 2011, 2013

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

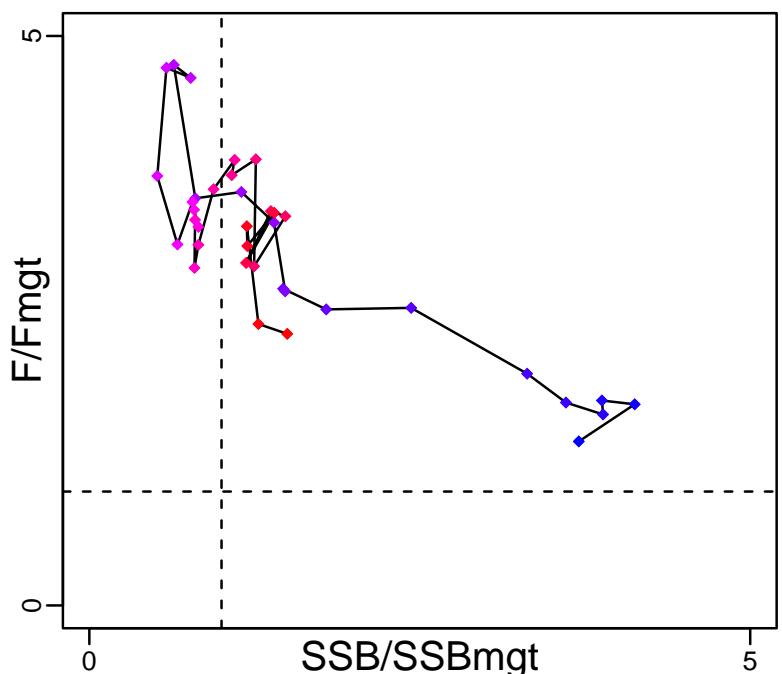
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	20,988	-	-	
SSB	SSB-MT	2019	17,430	-	-	
TN	-	-	-	-	-	
R	R-E00	2019	78,619,505	-	0	
F	F-1/yr	2019	0.596	-	1 to 3	
ER	ER-calc-ratio	2019	0.575	-	-	
TC	TC-MT	2020	9170			
TL	TL-MT	2020	8730			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

Hake ICES 8c-9a [HAKESOTH]

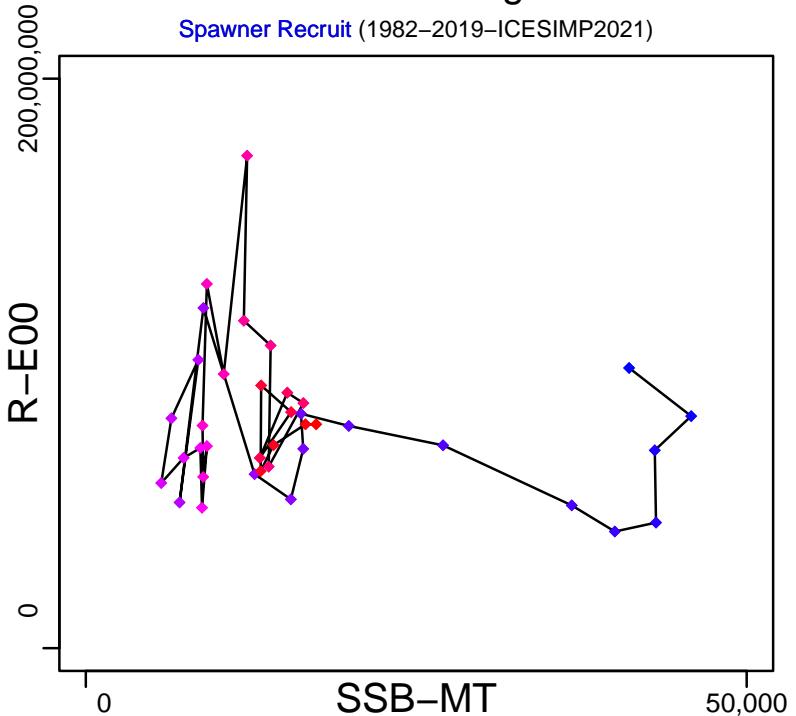
Kobe MSYpref (1982–2019–ICESIMP2021)



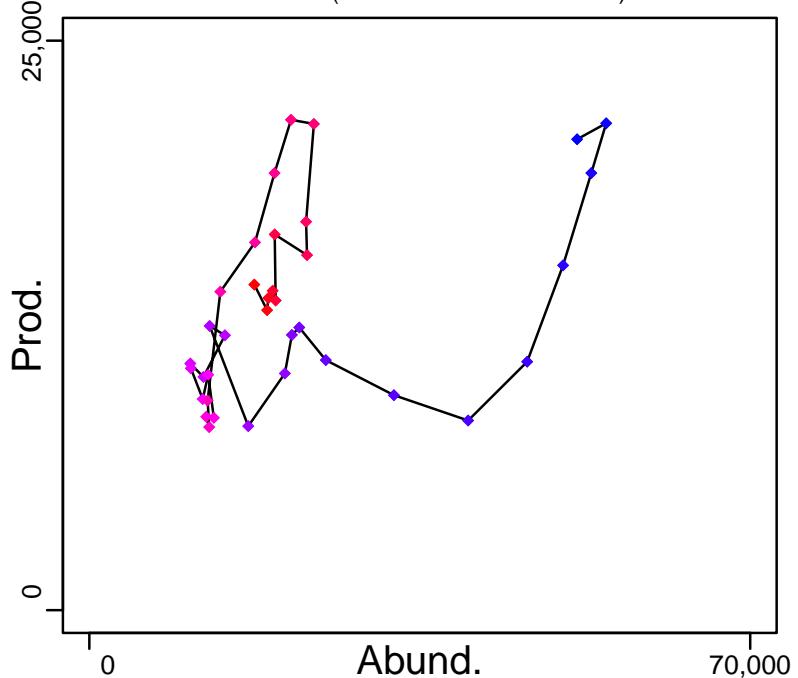
Kobe MGTpref (1982–2019–ICESIMP2021)



Spawner Recruit (1982–2019–ICESIMP2021)



Production (1982–2019–ICESIMP2021)

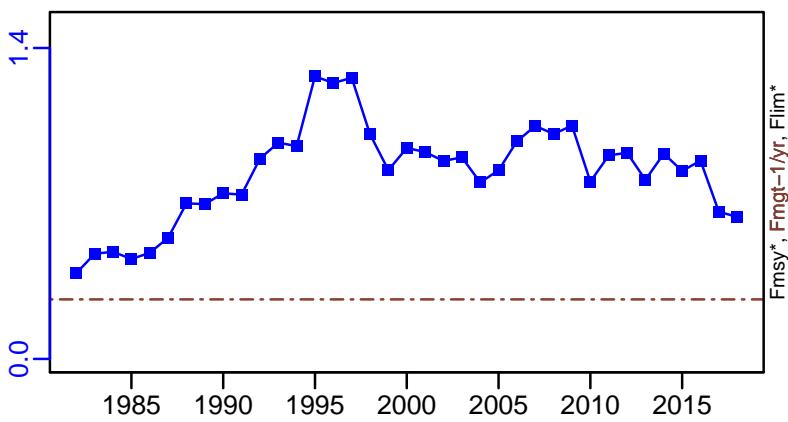
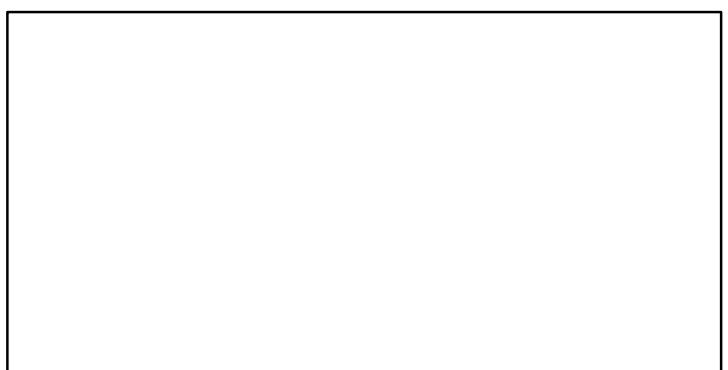
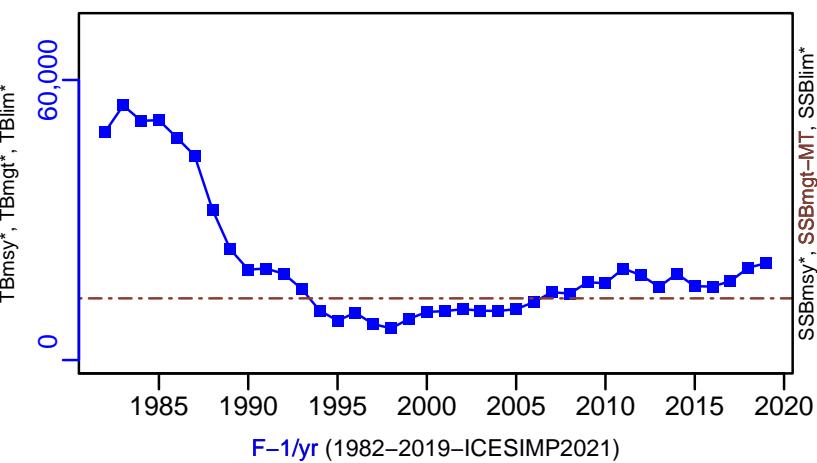
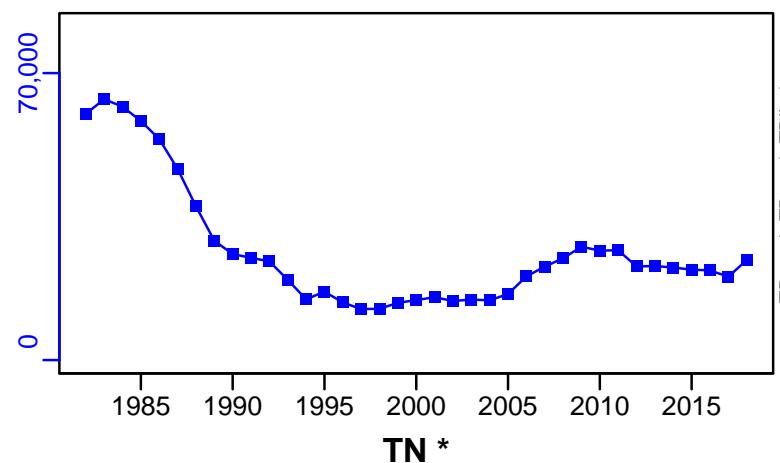


◆ Start Year ◆ End Year * No Data

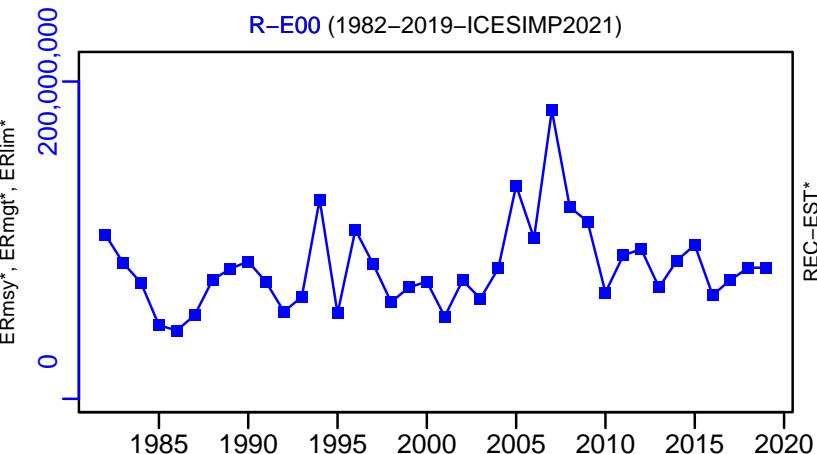
Hake ICES 8c–9a [HAKESOTH]

TB-MT (1982–2019–ICESIMP2021)

SSB-MT (1982–2019–ICESIMP2021)



ER-calc-ratio (1982–2019–ICESIMP2021)

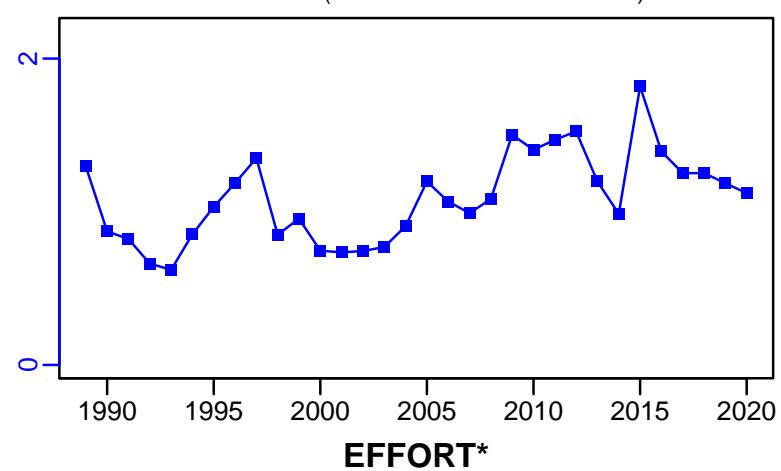
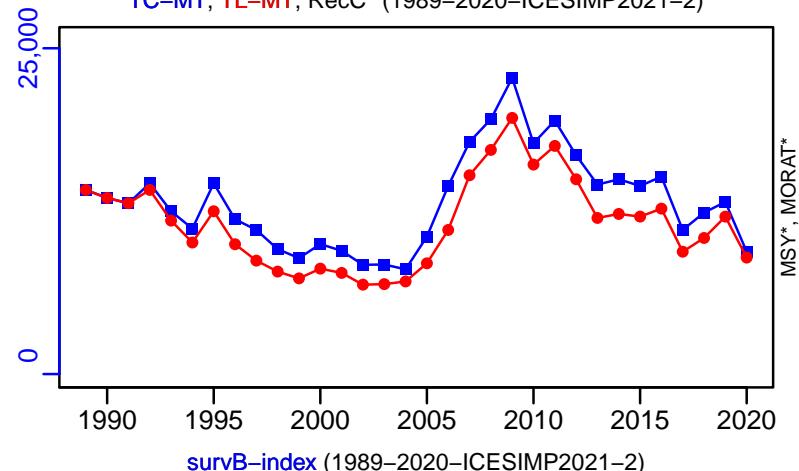


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

Hake ICES 8c–9a [HAKESOTH]

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

TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

Herring ICES 22-24-3a [HERR2224IIIa]

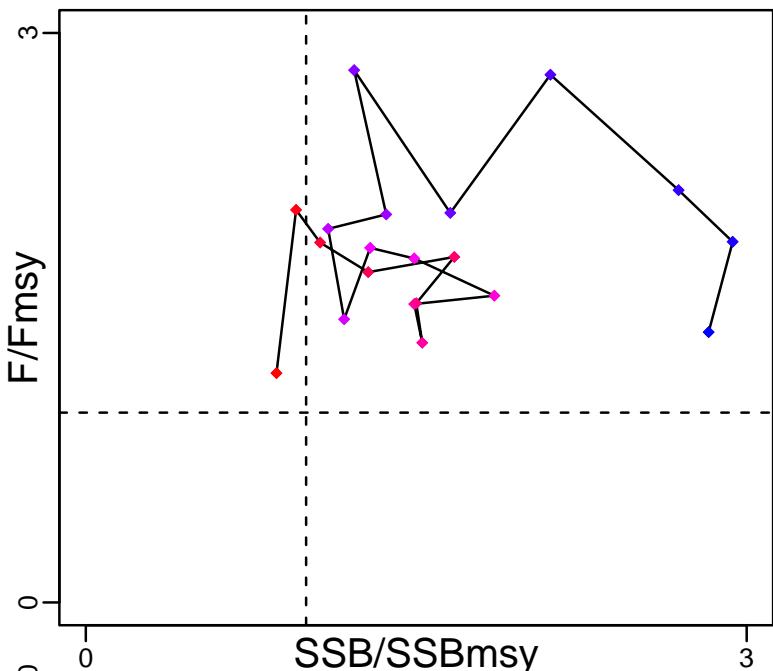
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERR2224IIIa-1991-2021-ICESIMP2021-2
Area	ICES 22-24-3a
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	110,000
Fmsy	Fmsy-1/yr	2021	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	120,000
Flim	Flim-1/yr	2021	0.45
ERlim	-	-	-

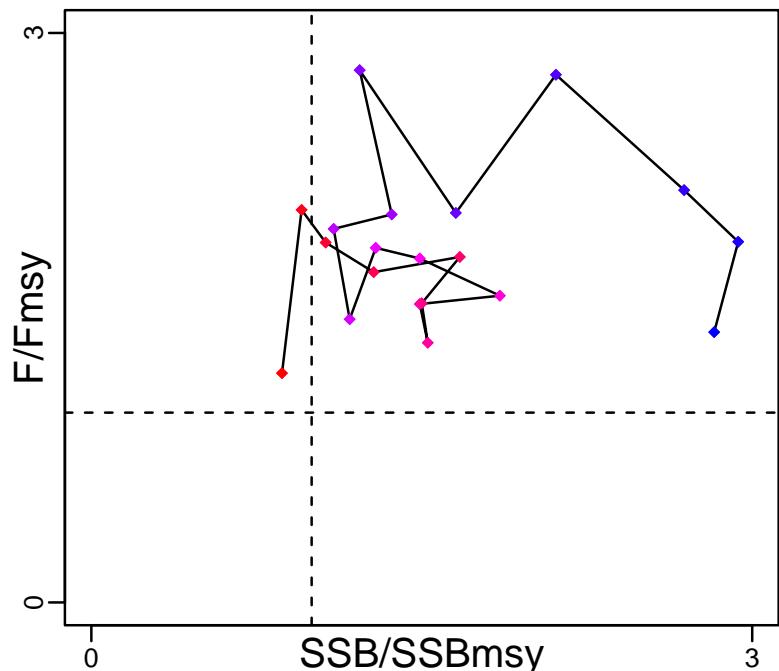
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	114,957	-	-
SSB	SSB-MT	2021	65,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	8.6×10^8	-	0
F	F-1/yr	2021	0.193	-	-
ER	ER-calc-ratio	2019	0.357	-	-
TC	TC-MT	2021	22,100		
TL	TL-MT	2021	22,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.886		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.623		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.623		
ER/ERmgt	-	-	-		

Herring ICES 22–24–3a [HERR2224IIla]

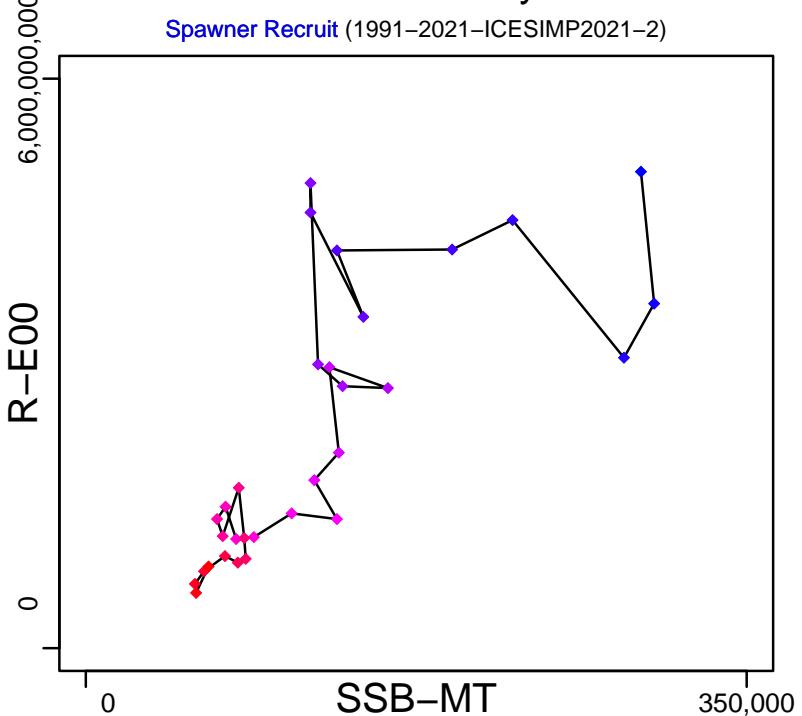
Kobe MSYpref (1991–2011–NEUBAUER)



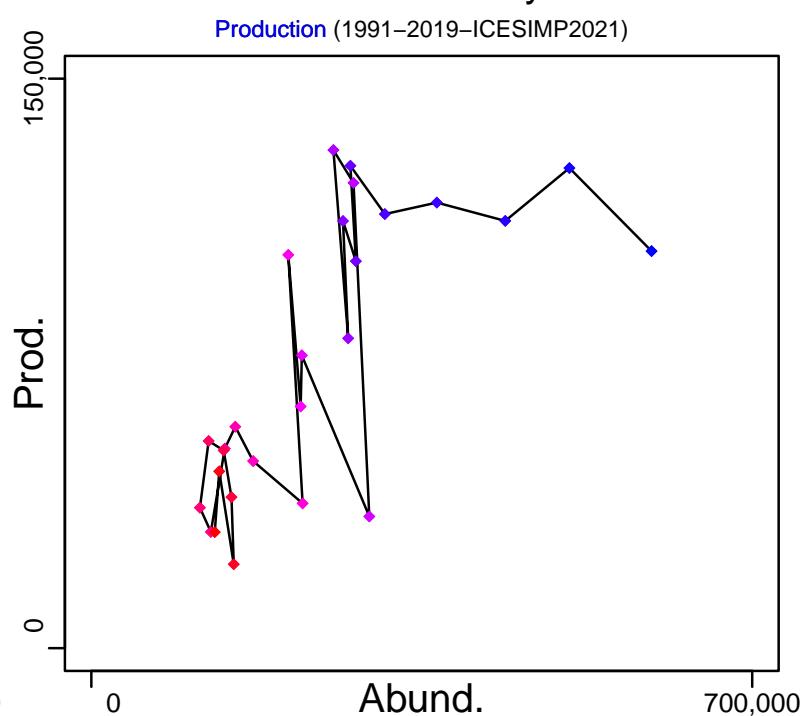
Kobe MGTpref (1991–2011–NEUBAUER)



Spawner Recruit (1991–2021–ICESIMP2021–2)



Production (1991–2019–ICESIMP2021)

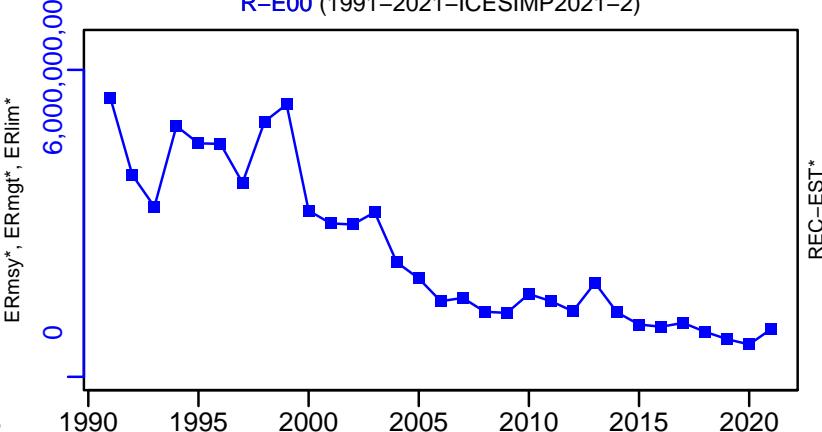
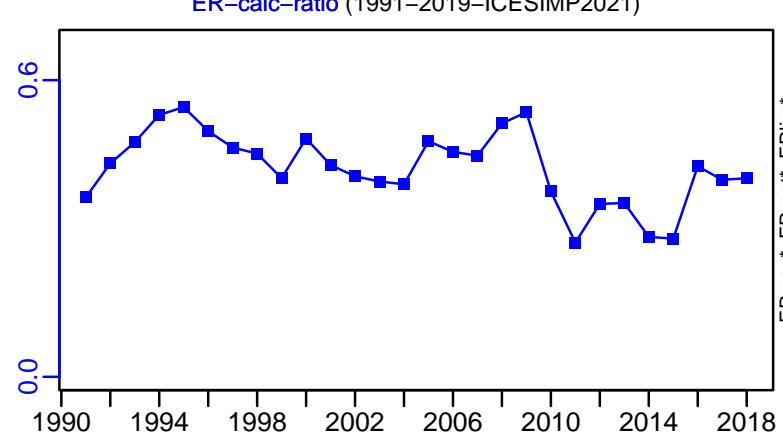
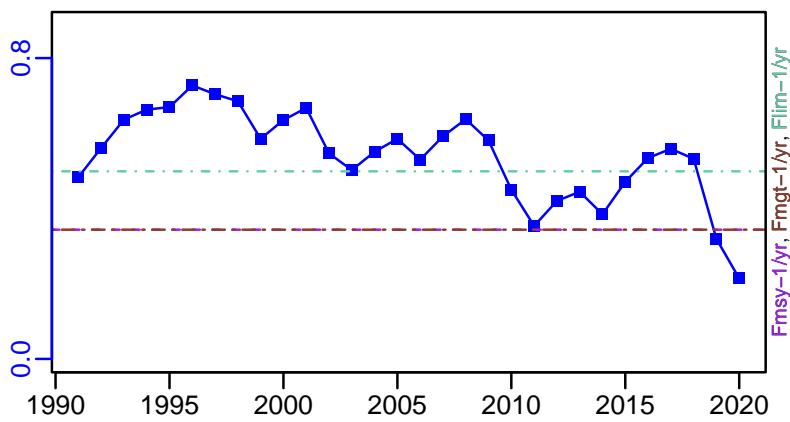
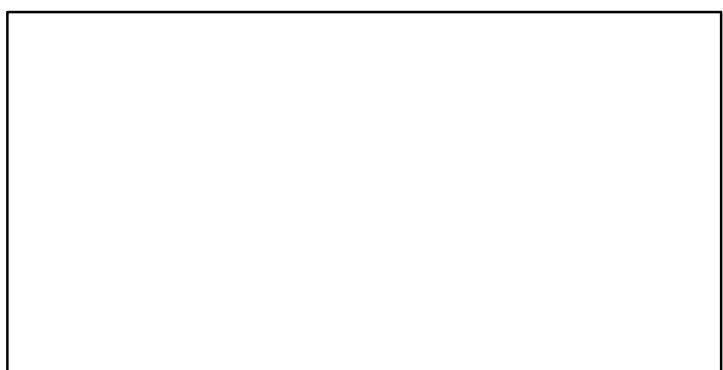
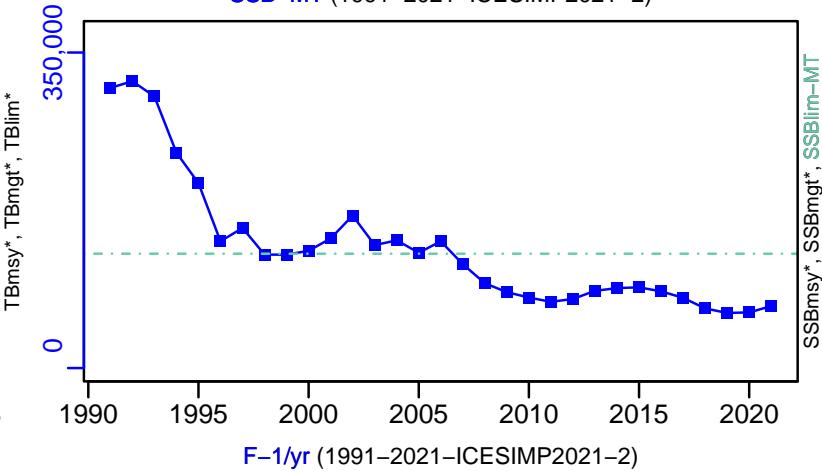
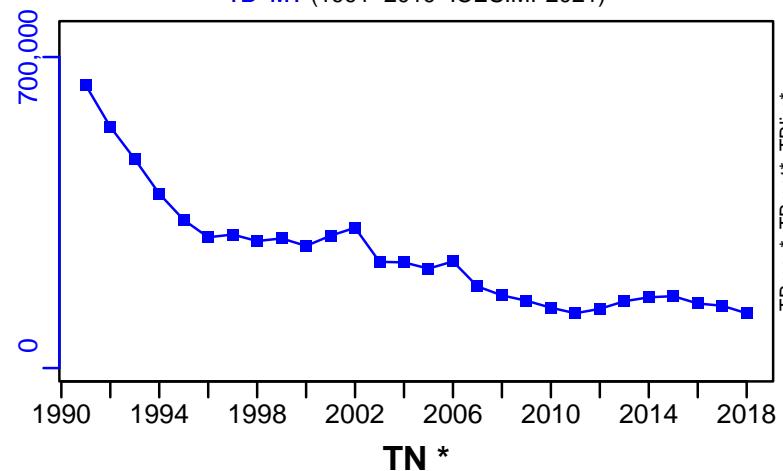


◆ Start Year ◆ End Year * No Data

Herring ICES 22–24–3a [HERR2224IIla]

TB-MT (1991–2019–ICESIMP2021)

SSB-MT (1991–2021–ICESIMP2021–2)

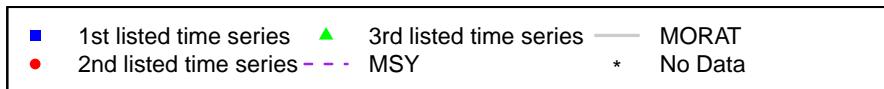
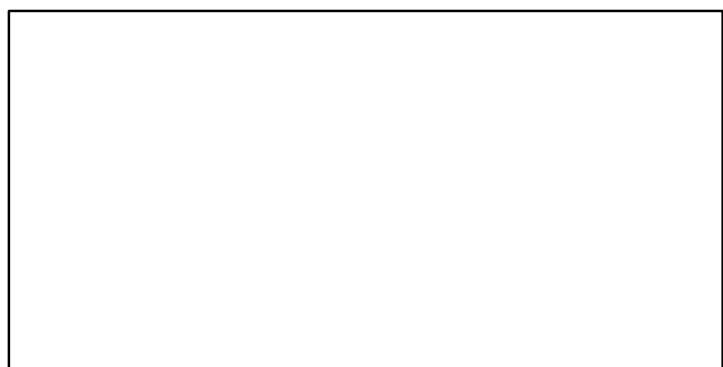
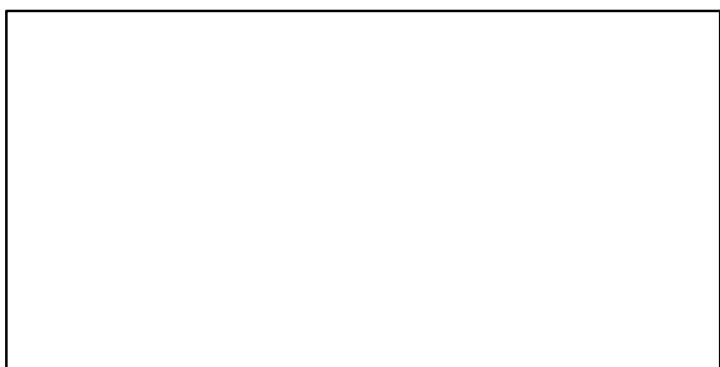
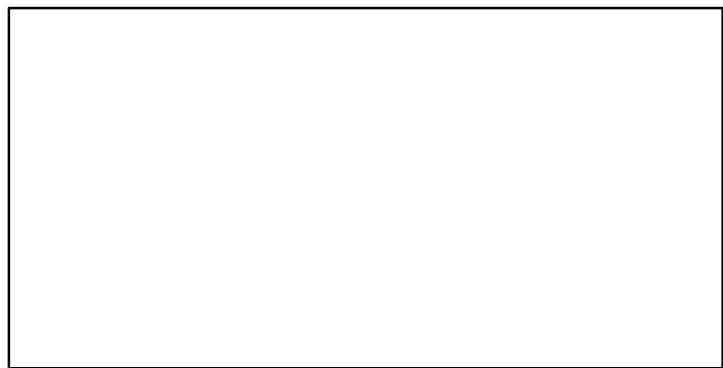
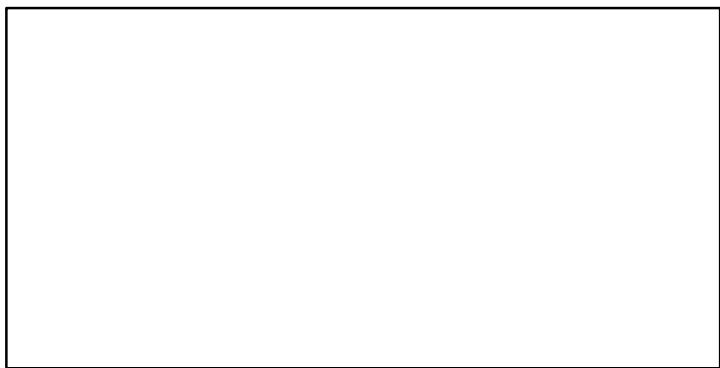
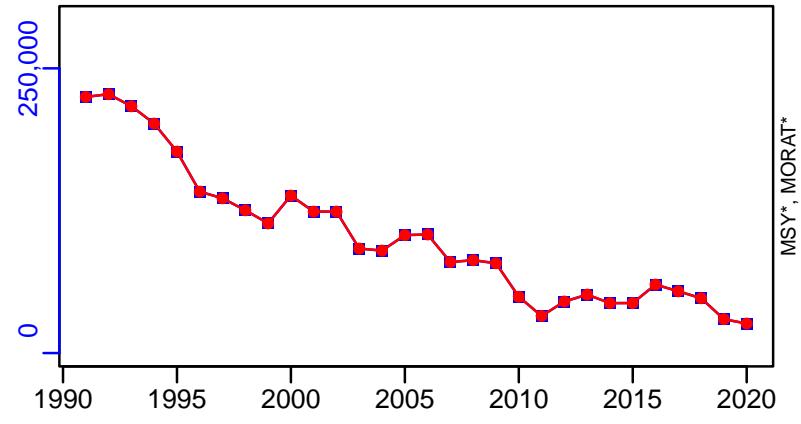


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Herring ICES 22–24–3a [HERR2224IIla]

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

TAC*, Cpair*, Cadv*



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

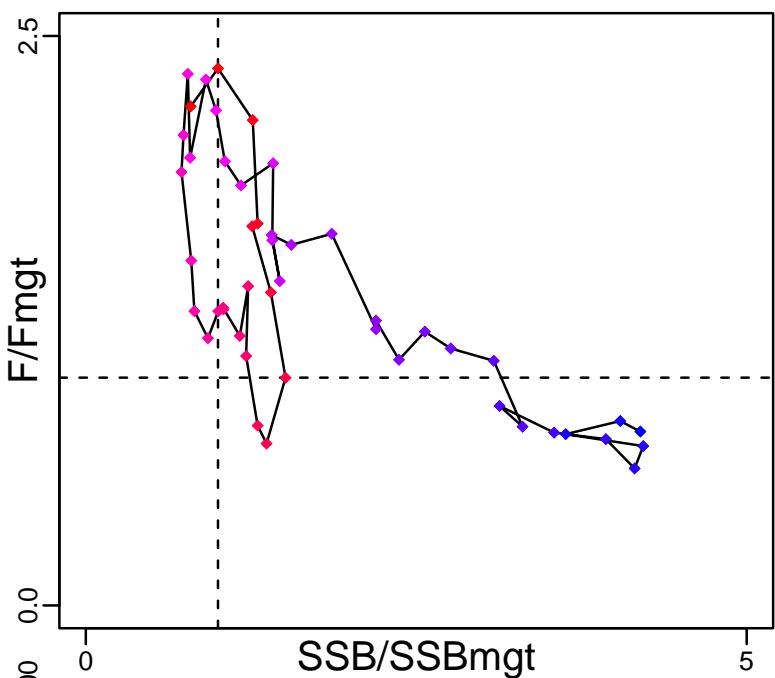
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR2529-32-1974-2021-ICESIMP2021-2
Area	Subdivisions 25-29 and 32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	460,000
Fmgt	Fmgt-1/yr	2021	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	330,000
Flim	Flim-1/yr	2021	0.59
ERlim	-	-	-

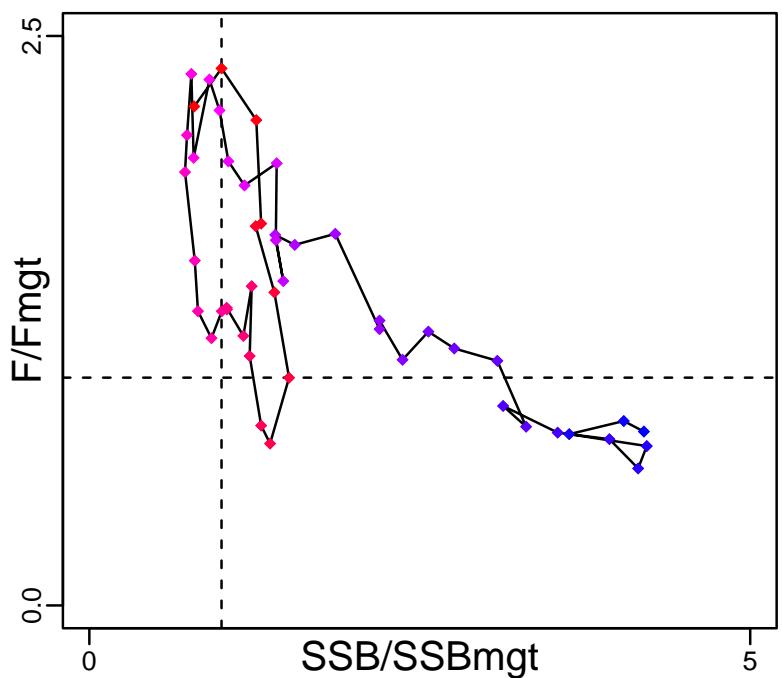
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	1,379,633	-	-
SSB	SSB-MT	2021	365,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	1.21×10^{10}	-	1
F	F-1/yr	2021	0.46	-	-
ER	ER-calc-ratio	2019	0.177	-	-
TC	TC-MT	2021	177,000		
TL	TL-MT	2021	177,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.255		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.793		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	2.19		
ER/ERmgt	-	-	-		

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

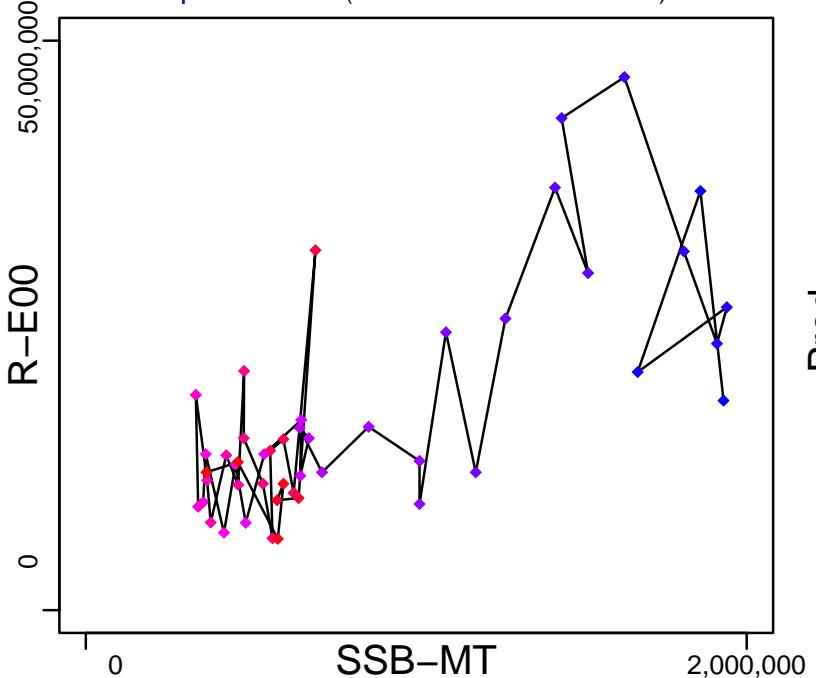
Kobe MSYpref (1974–2021–ICESIMP2021–2)



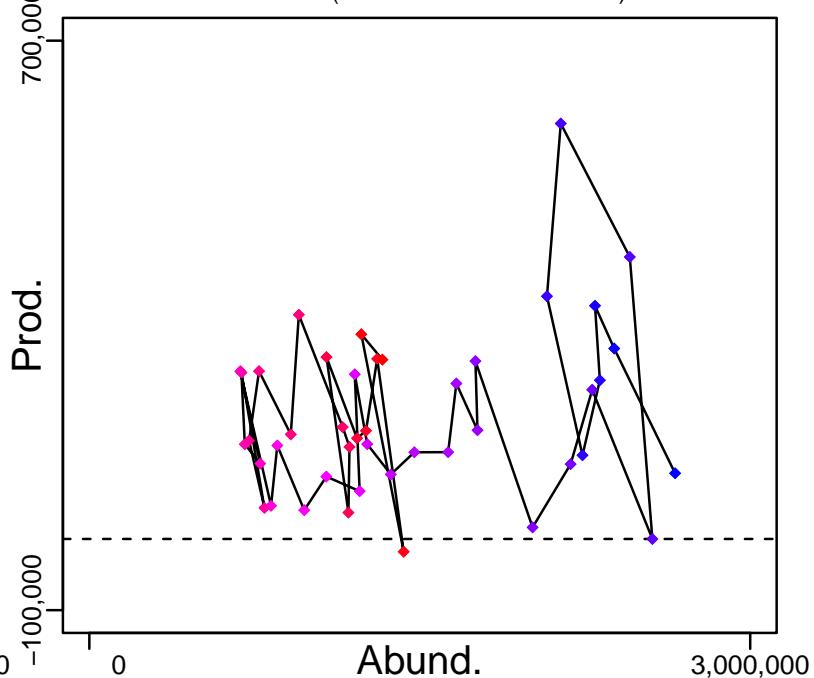
Kobe MGTpref (1974–2021–ICESIMP2021–2)



Spawner Recruit (1974–2021–ICESIMP2021–2)



Production (1973–2019–ICESIMP2021)

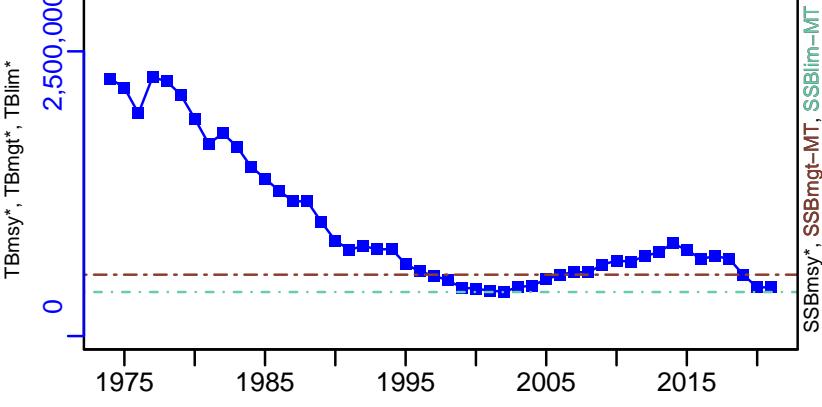
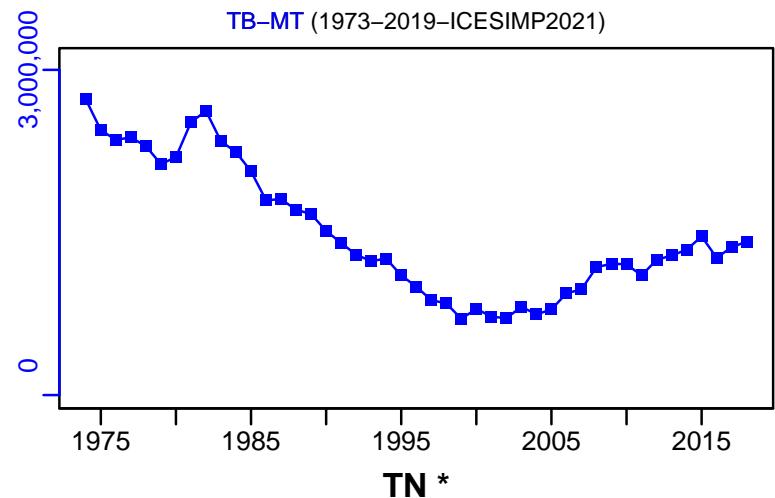


◆ Start Year ♦ End Year * No Data

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

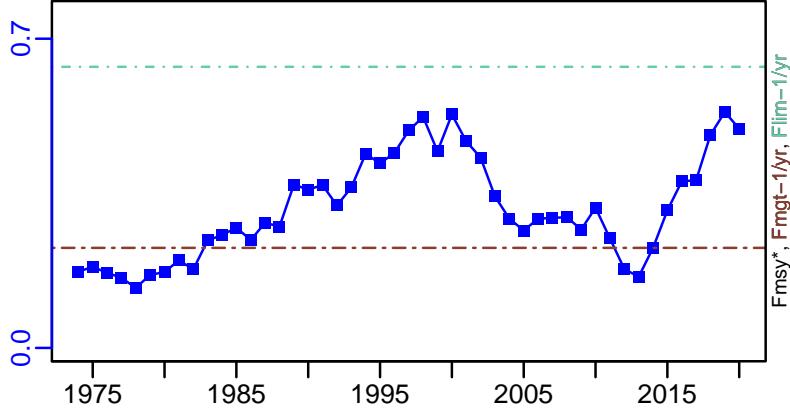
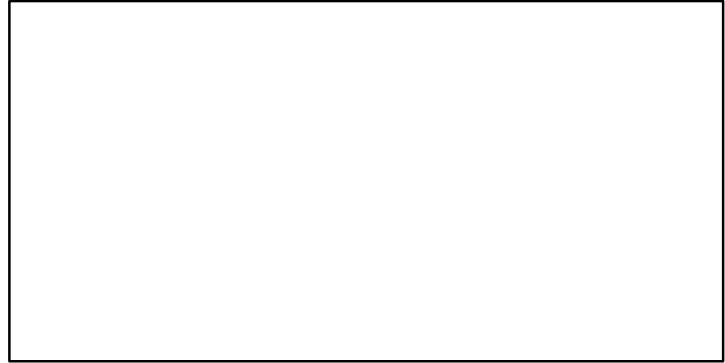
TB-MT (1973–2019–ICESIMP2021)

SSB-MT (1974–2021–ICESIMP2021–2)



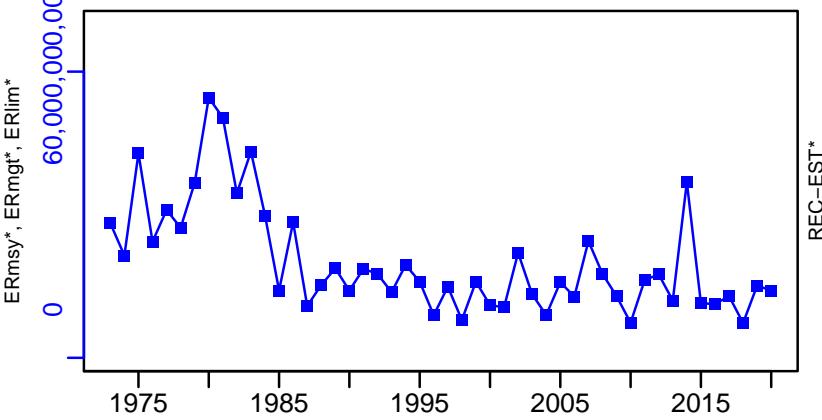
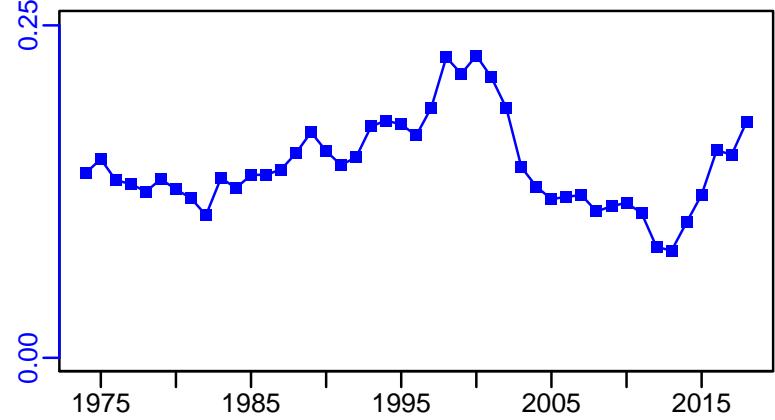
TN *

F-1/yr (1974–2021–ICESIMP2021–2)



ER-calc-ratio (1973–2019–ICESIMP2021)

R-E00 (1974–2021–ICESIMP2021–2)

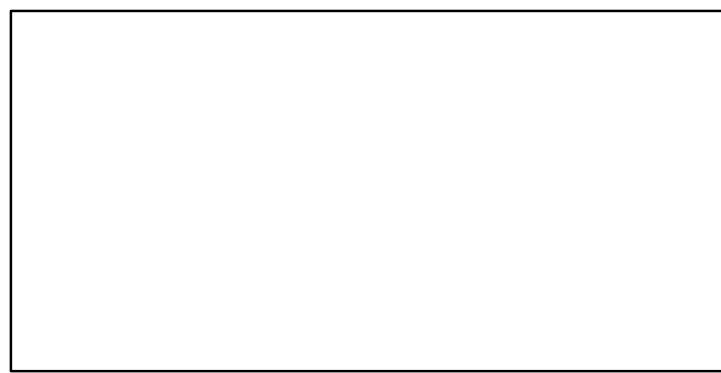
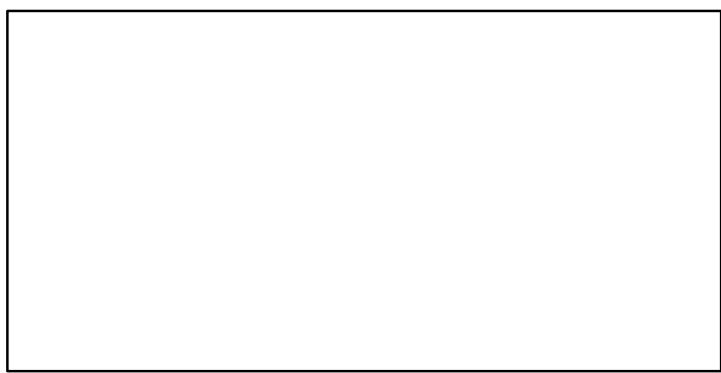
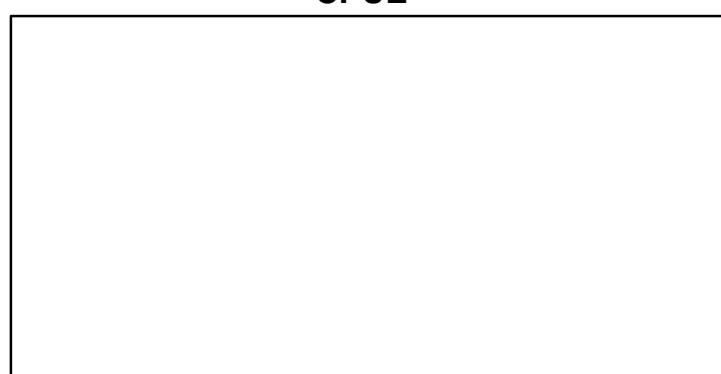
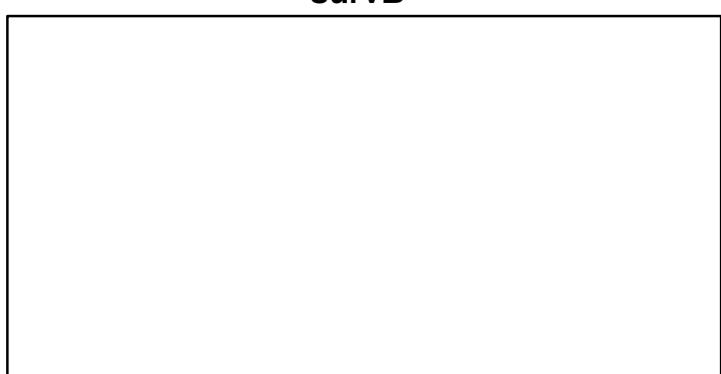
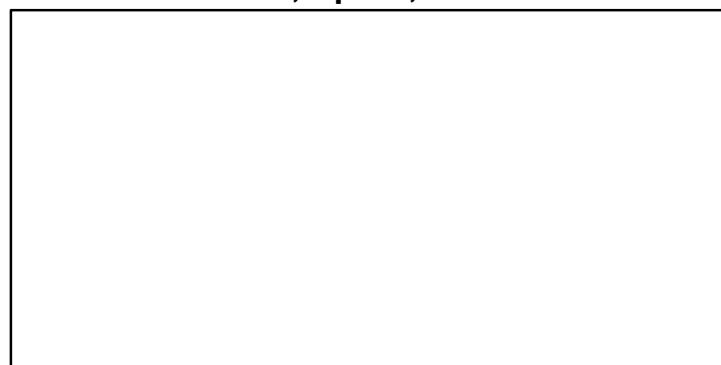
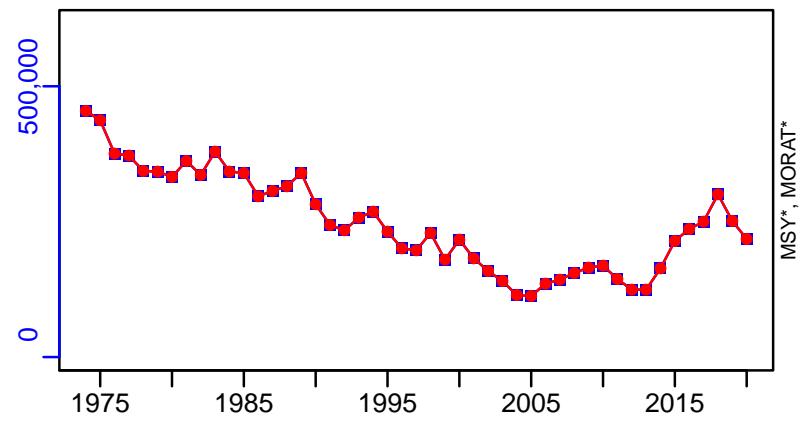


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

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

TC-MT, TL-MT, RecC* (1974–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



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

Herring Subdivisions 30-31 [HERR30-31]

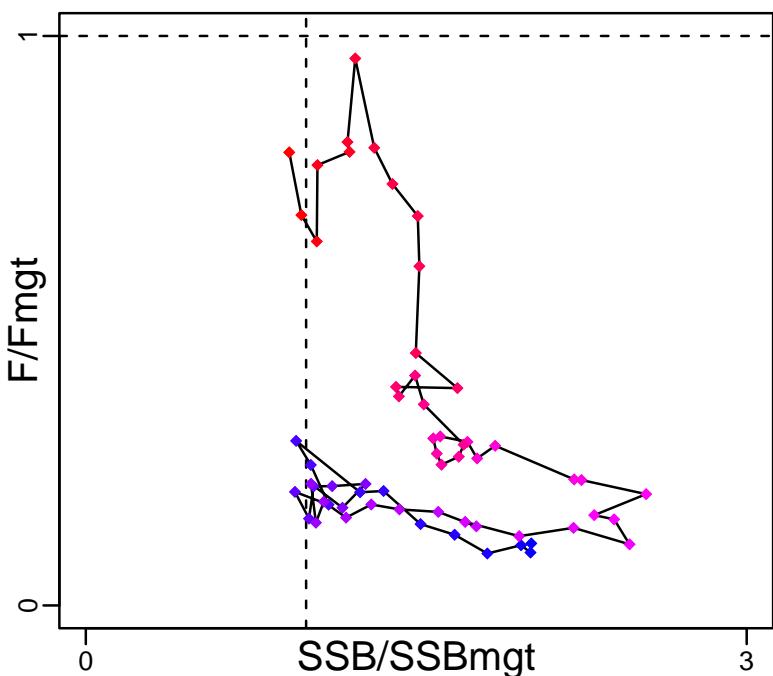
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR30-31-1963-2023-ICESIMP2024
Area	Subdivisions 30-31
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2021, 2023, 2017, 2018, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.21
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	533,515
Fmgt	Fmgt-1/yr	2023	0.271
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	376,571
Flim	Flim-1/yr	2023	0.496
ERlim	-	-	-

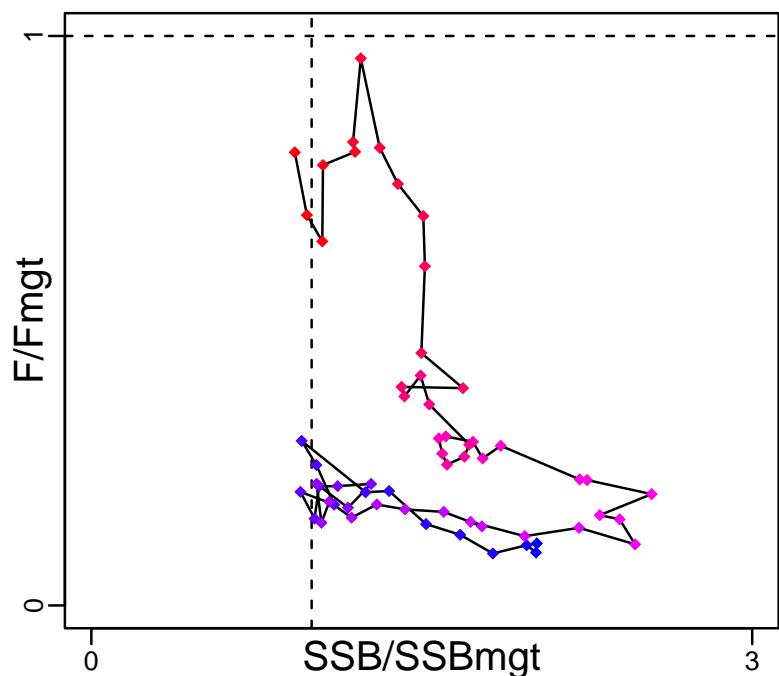
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-relative	2018	0.892	-	-	
SSB	SSB-MT	2023	449,913	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	26,570,110	-	0	
F	F-1/yr	2023	0.216	-	3 to 7	
ER	ER-calc-ratio	2017	0.185	-	-	
TC	TC-MT	2023	78,614			
TL	TL-MT	2018	104,000			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.19			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	0.843			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.796			
ER/ERmgt	-	-	-			

Herring Subdivisions 30–31 [HERR30–31]

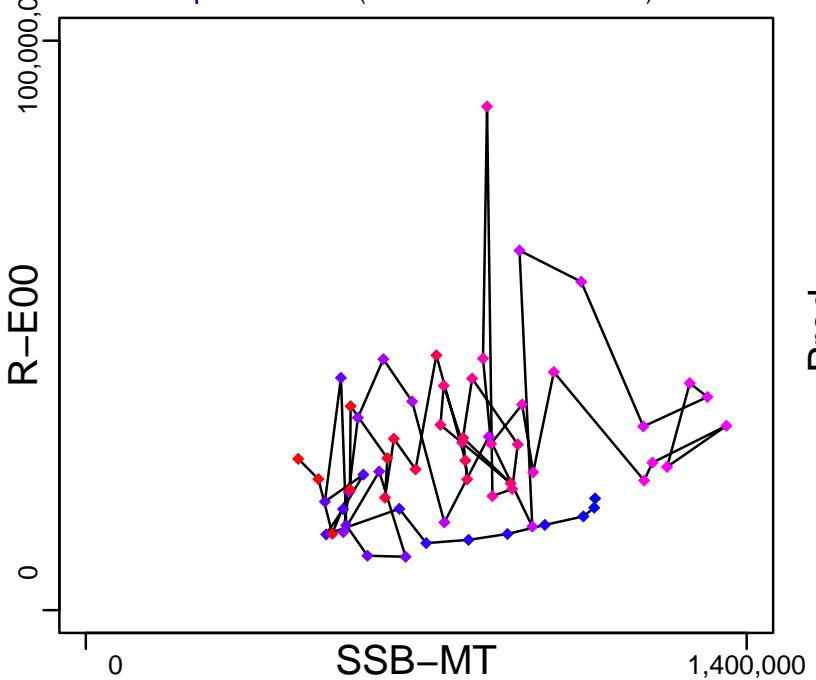
Kobe MSYpref (1963–2023–ICESIMP2024)



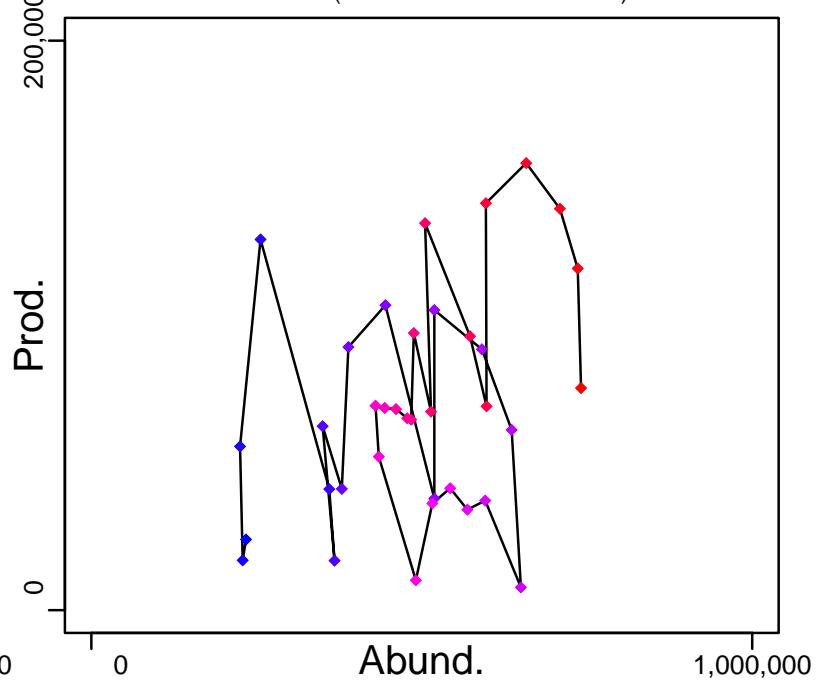
Kobe MGTpref (1963–2023–ICESIMP2024)



Spawner Recruit (1963–2023–ICESIMP2024)



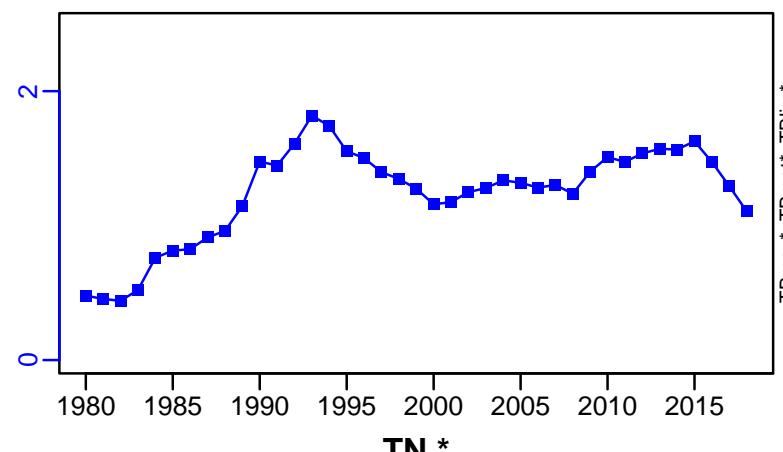
Production (1979–2017–ICESIMP2018)



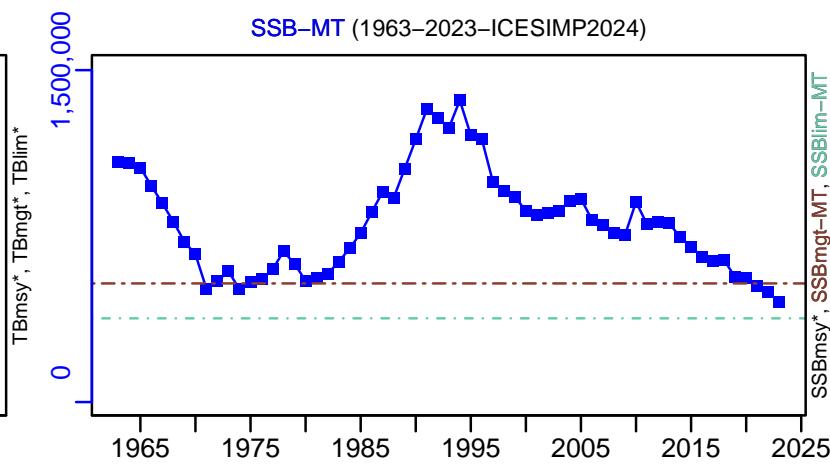
◆ Start Year ◆ End Year * No Data

Herring Subdivisions 30–31 [HERR30–31]

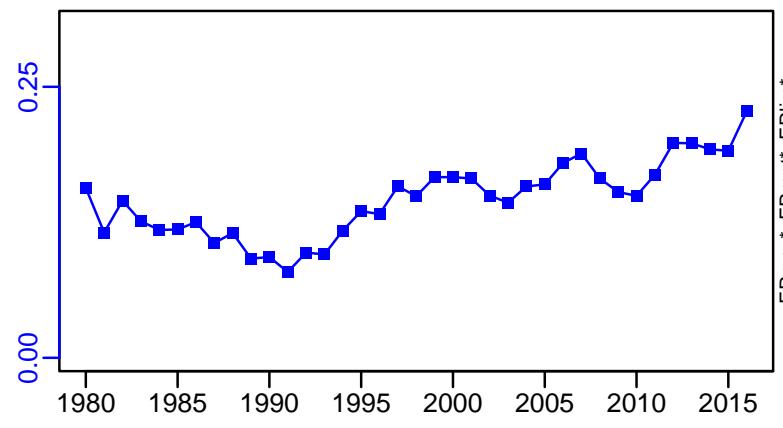
TB-relative (1979–2018–ICESIMP2021)



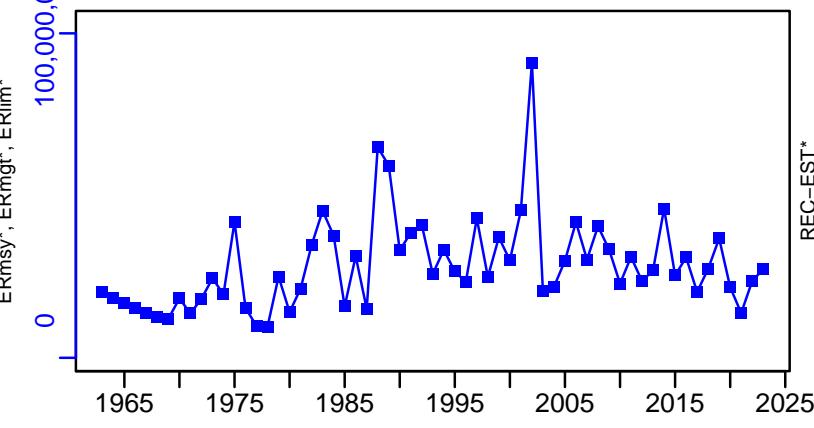
SSB-MT (1963–2023–ICESIMP2024)



ER-calc-ratio (1979–2017–ICESIMP2018)



R-E00 (1963–2023–ICESIMP2024)

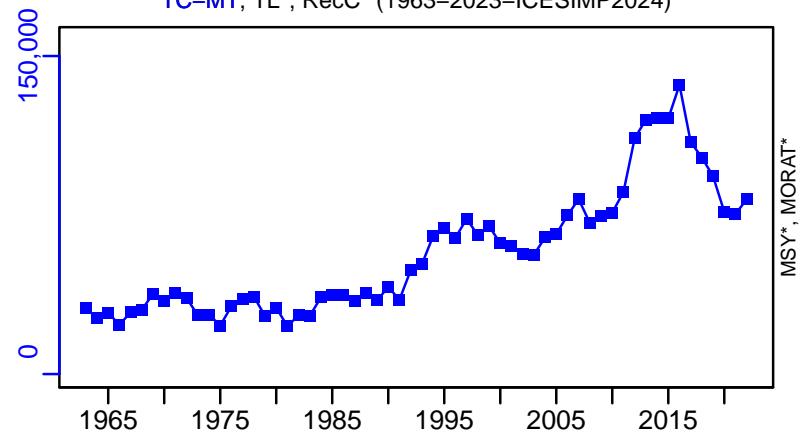


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

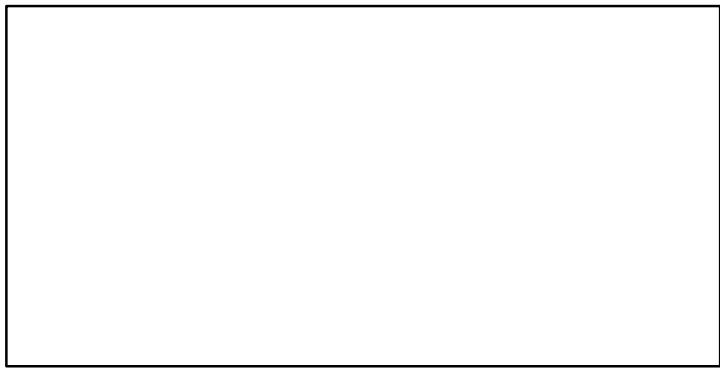
Herring Subdivisions 30–31 [HERR30–31]

TC–MT, TL*, RecC* (1963–2023–ICESIMP2024)

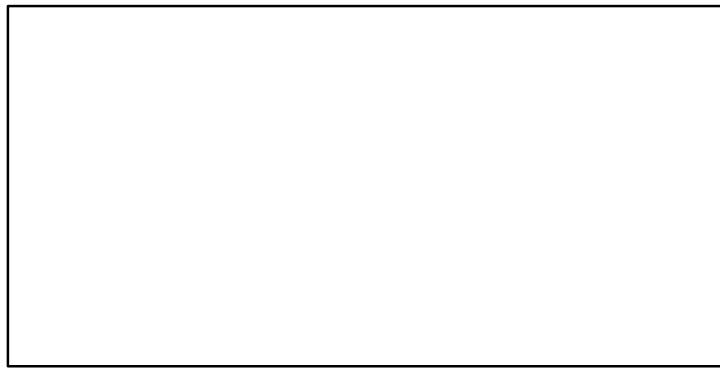
TAC*, Cpair*, Cadv*



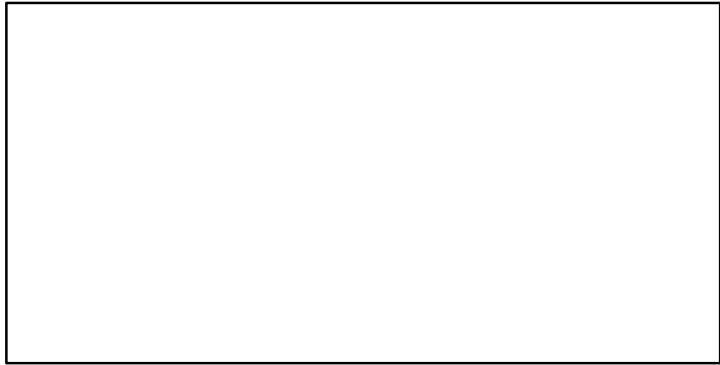
survB*



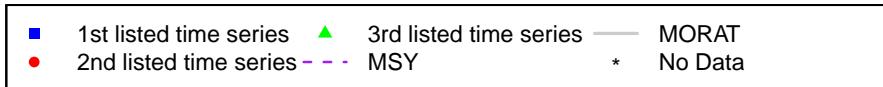
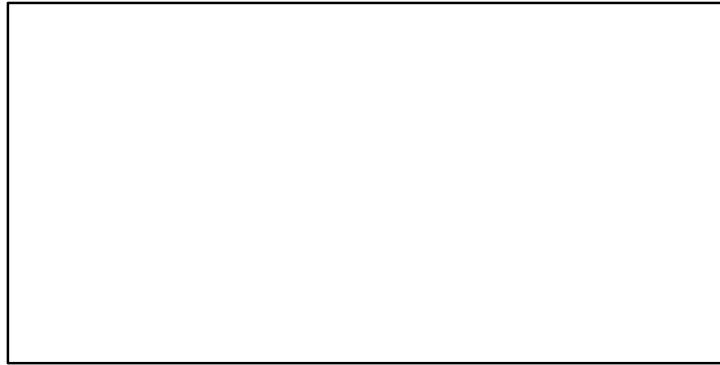
CPUE*



EFFORT*



CdivMSY*

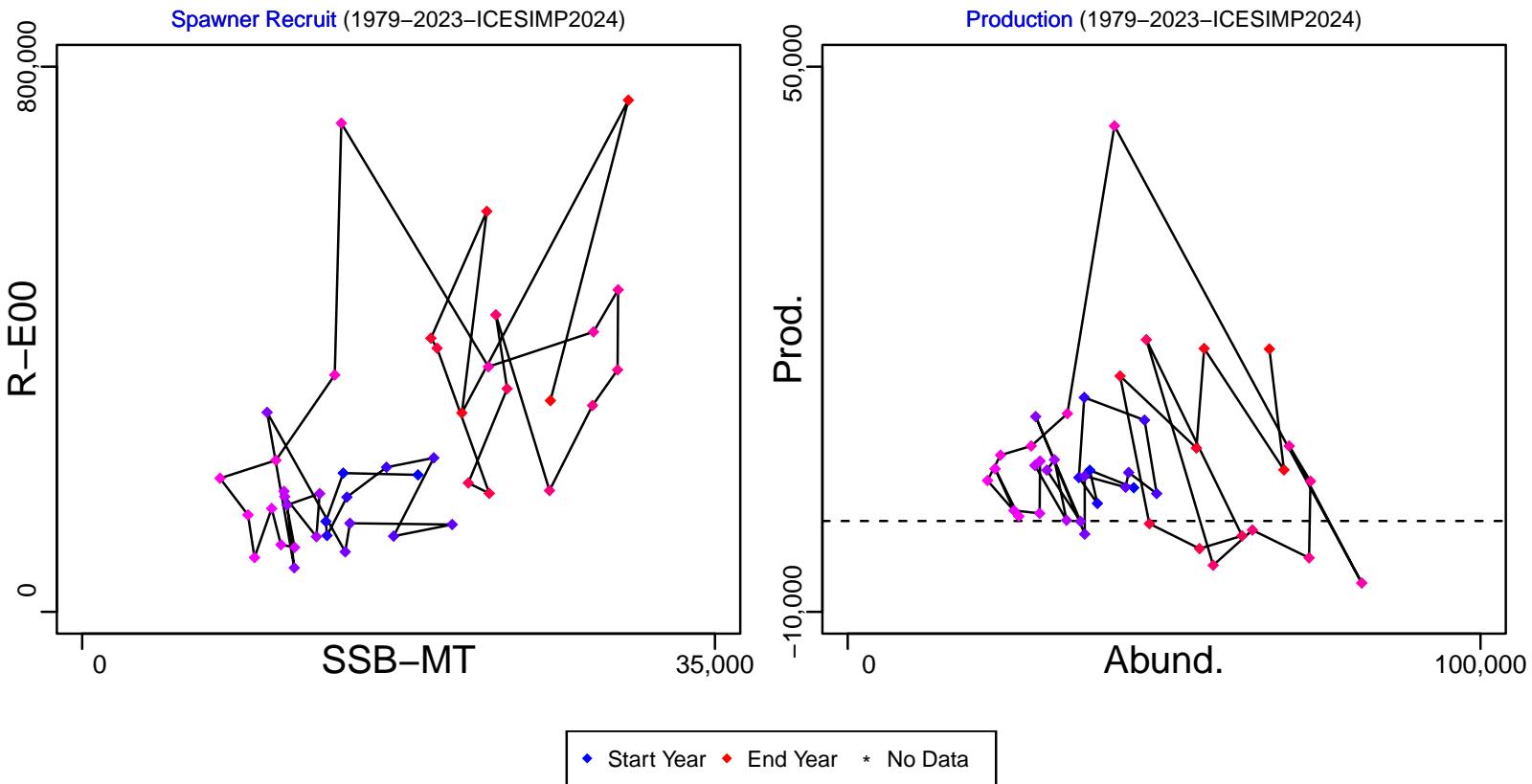


Herring Irish Sea [HERRNIRS]

Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNIRS-1979-2023-ICESIMP2024
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, 2023, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.266
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.266
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	8500
Flim	Flim-1/yr	2023	0.397
ERlim	-	-	-

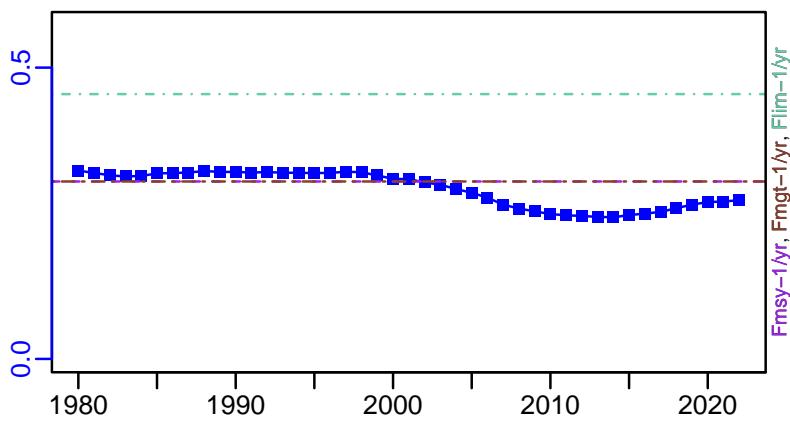
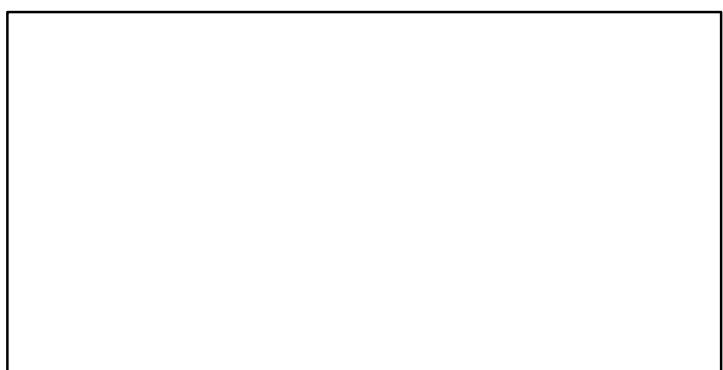
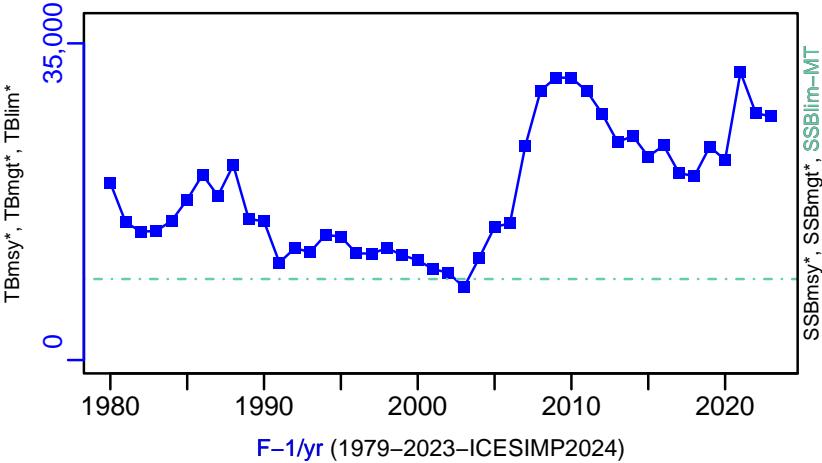
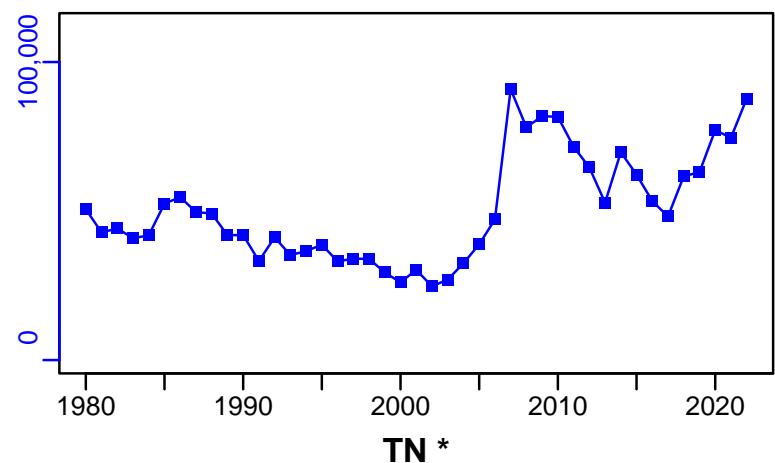
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	78,355	-	-	
SSB	SSB-MT	2023	25,569	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	310,023	-	1	
F	F-1/yr	2023	0.238	-	4 to 6	
ER	ER-calc-ratio	2023	0.101	-	-	
TC	TC-MT	2023	7888			
TL	TL-MT	2023	7888			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.894			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.894			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

Herring Irish Sea [HERRNIRS]

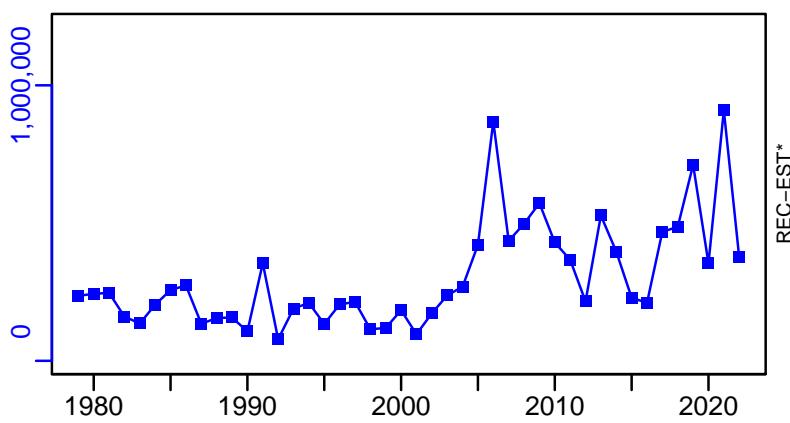
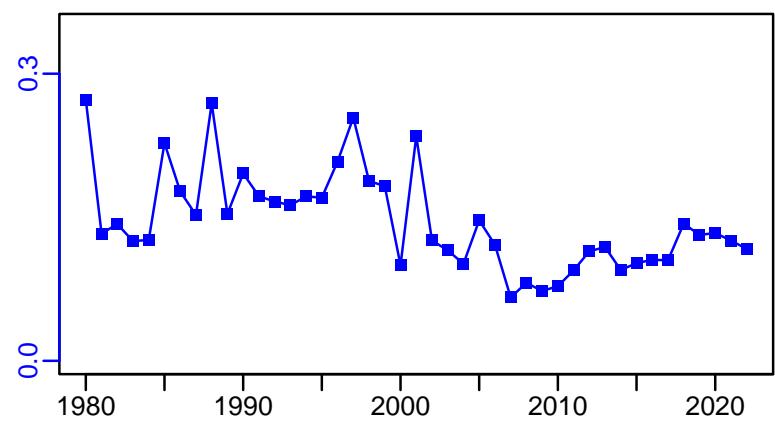
TB-MT (1979–2023–ICESIMP2024)

SSB-MT (1979–2023–ICESIMP2024)



ER-calc-ratio (1979–2023–ICESIMP2024)

R-E00 (1979–2023–ICESIMP2024)

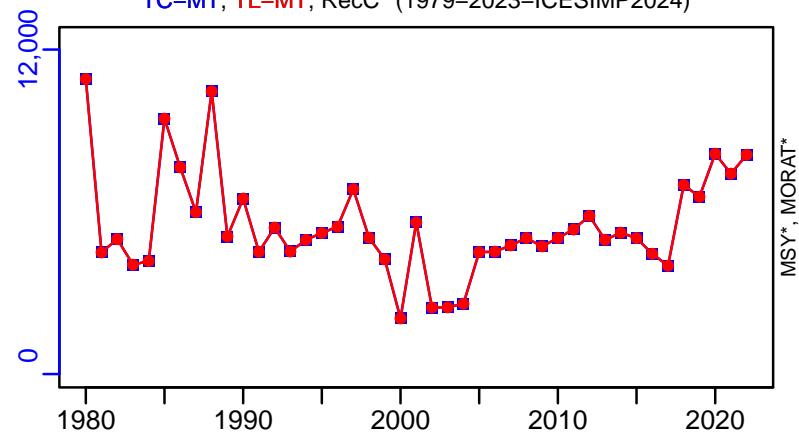


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Herring Irish Sea [HERRNIRS]

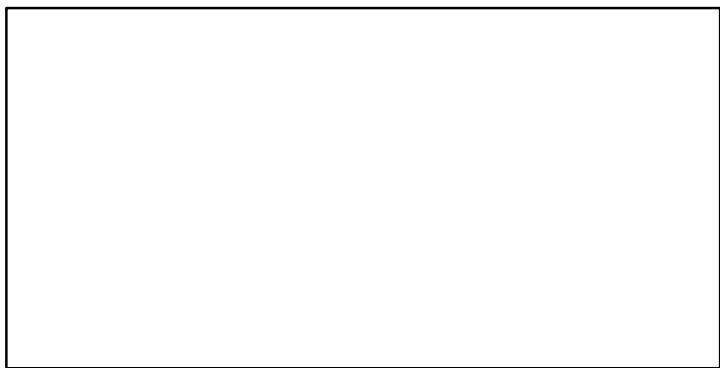
TC-MT, TL-MT, RecC* (1979–2023–ICESIMP2024)

TAC*, Cpair*, Cadv*

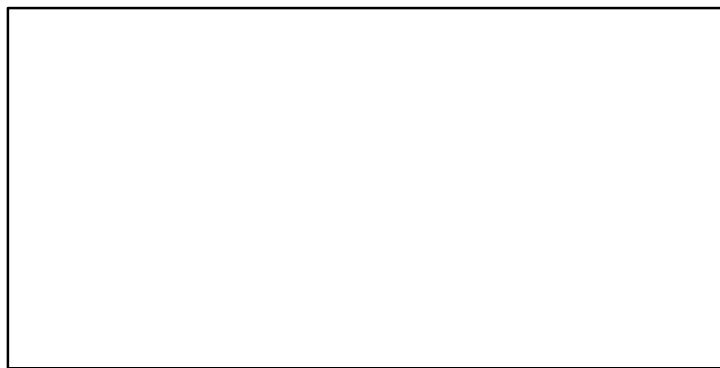


MSY*, MORAT*

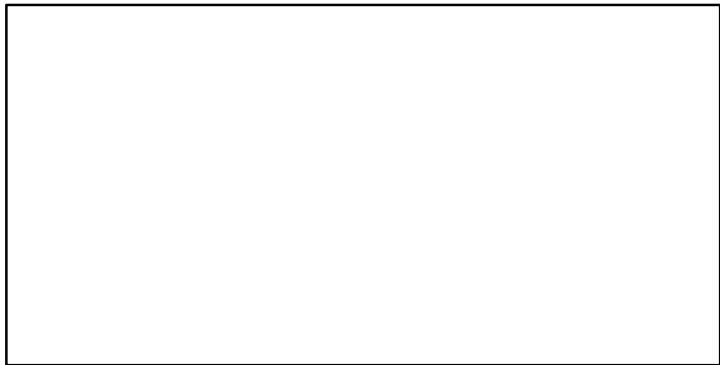
survB*



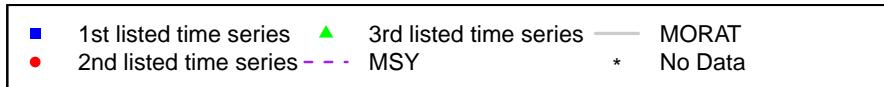
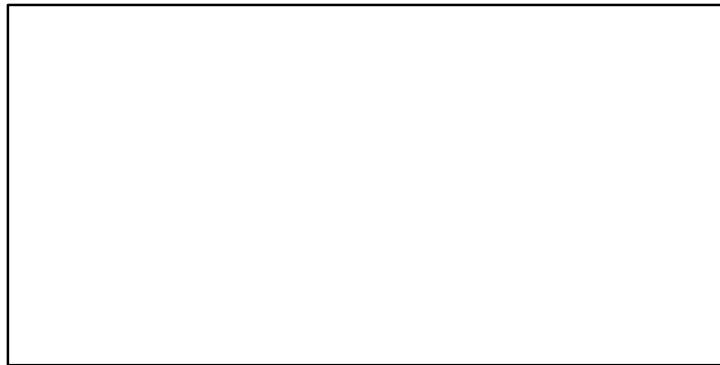
CPUE*



EFFORT*



CdivMSY*



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

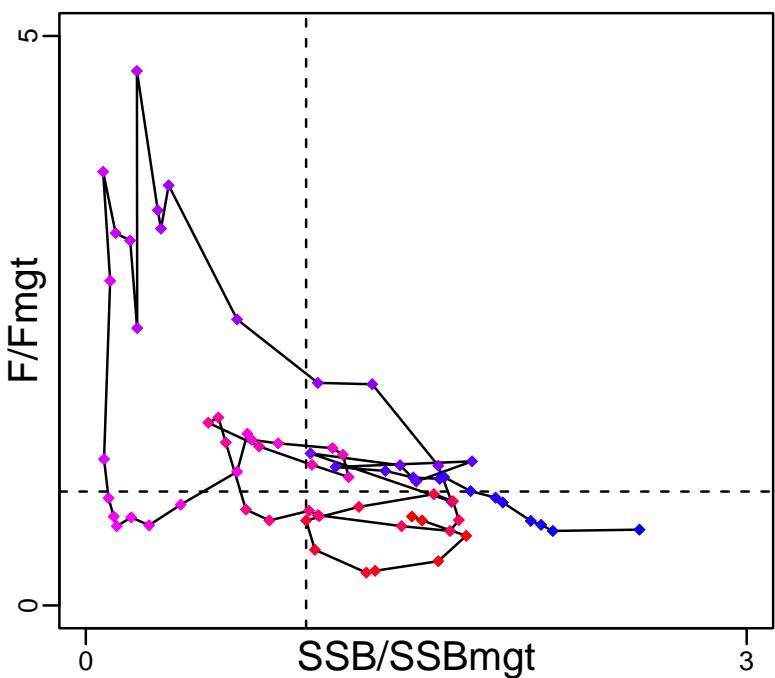
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNS-IIla-VIId-1947-2023-ICESIMP2024
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBm sy	-	-	-
SSBm sy	-	-	-
Fm sy	Fm sy-1/yr	2023	0.31
ERm sy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	1,500,000
Fmgt	Fmgt-1/yr	2023	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	874,198
Flim	Flim-1/yr	2023	0.4
ERlim	-	-	-

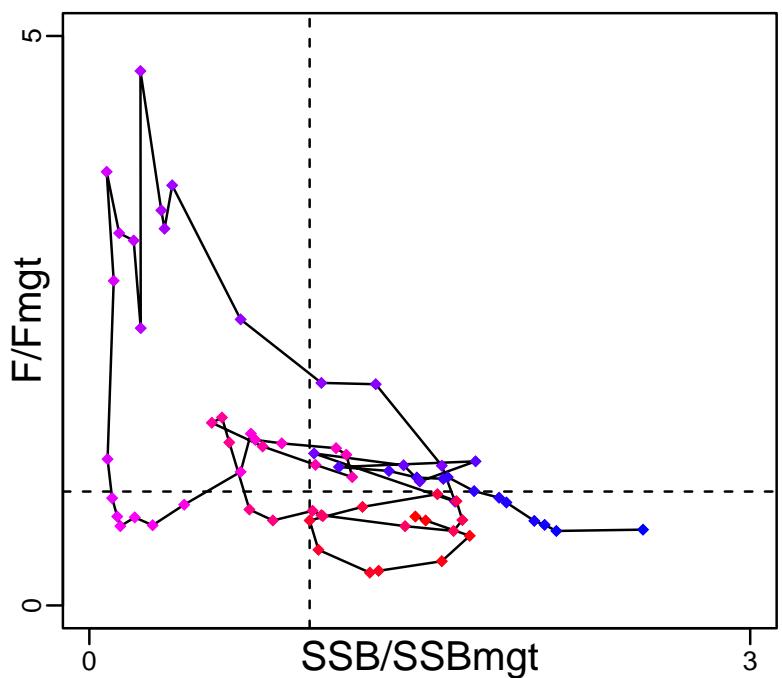
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	3,042,541	-	-	
SSB	SSB-MT	2023	1,480,607	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	31,349,395	-	0	
F	F-1/yr	2023	0.227	-	2 to 6	
ER	ER-calc-ratio	2023	0.149	-	-	
TC	TC-MT	2023	462,247			
TL	TL-MT	2017	564,000			
TB/TBm sy	-	-	-			
SSB/SSBm sy	-	-	-			
F/Fm sy	F-1/yr/Fm sy-1/yr	2023	0.734			
ER/ERm sy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.48			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.734			
ER/ERmgt	-	-	-			

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

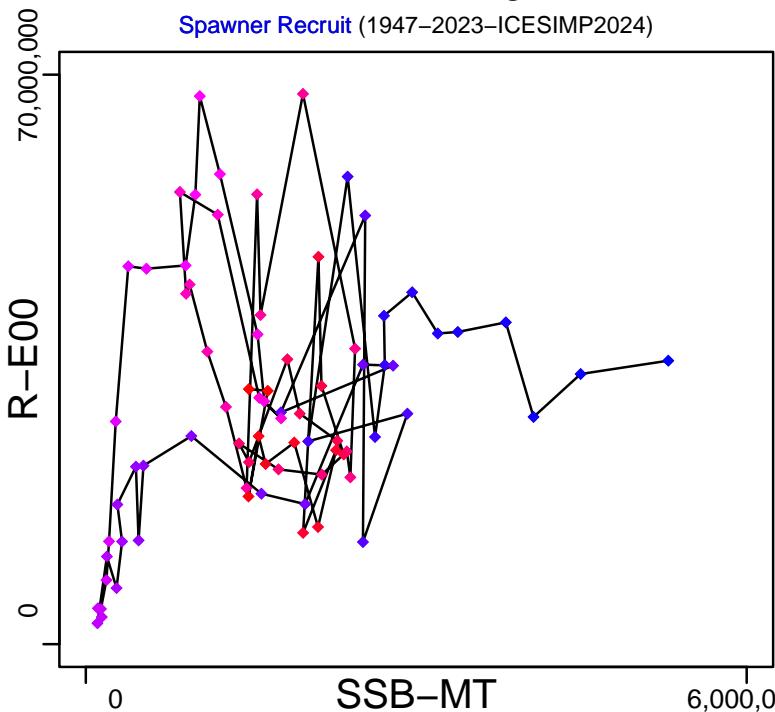
Kobe MSYpref (1947–2015–ICESIMP2016)



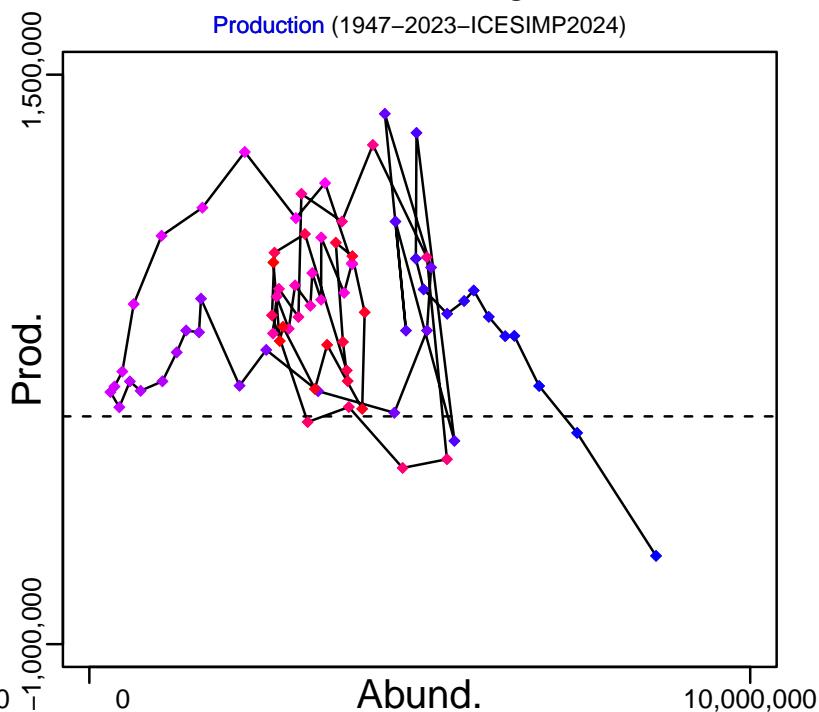
Kobe MGTpref (1947–2015–ICESIMP2016)



Spawner Recruit (1947–2023–ICESIMP2024)



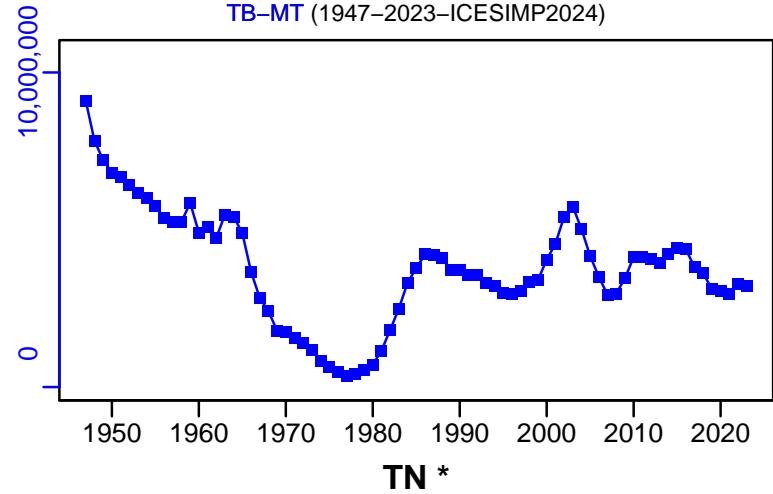
Production (1947–2023–ICESIMP2024)



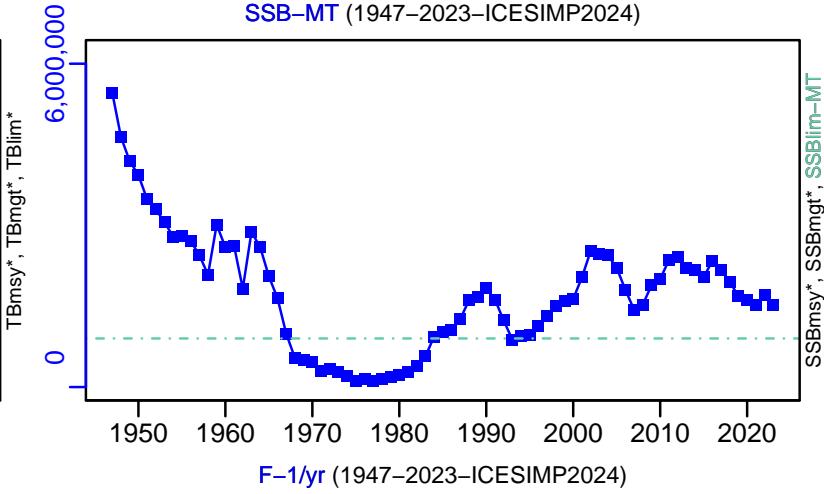
◆ Start Year	◆ End Year	*	No Data
--------------	------------	---	---------

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

TB-MT (1947–2023–ICESIMP2024)



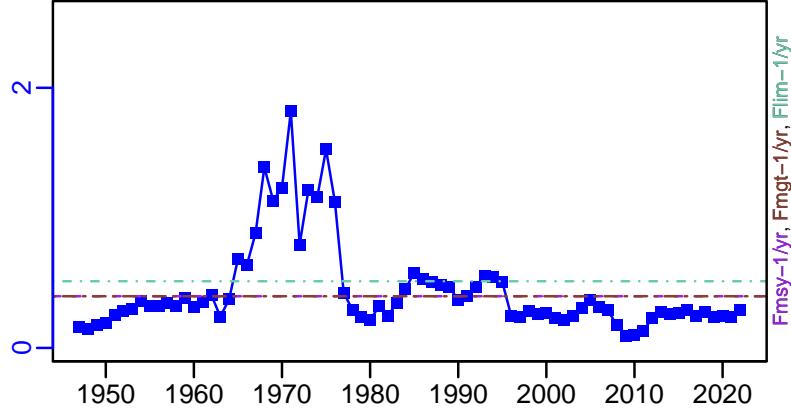
SSB-MT (1947–2023–ICESIMP2024)



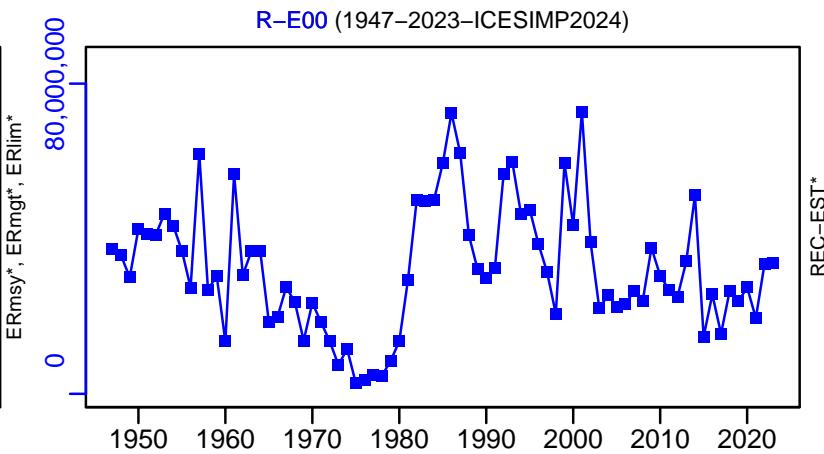
TN *



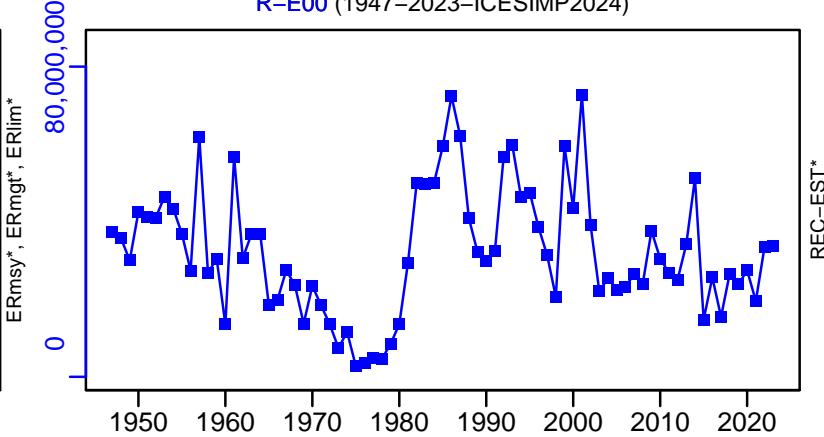
F-1/yr (1947–2023–ICESIMP2024)



ER-calc-ratio (1947–2023–ICESIMP2024)



R-E00 (1947–2023–ICESIMP2024)



ER_{MSY}* , ER_{Mgt*} , ER_{Lim*}

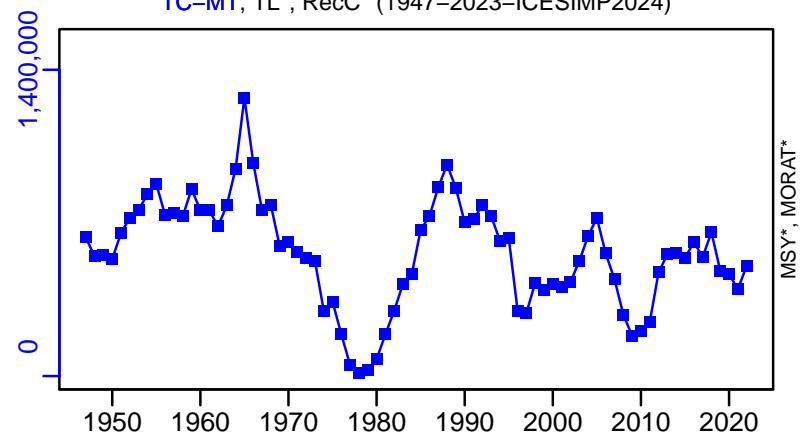
REC-EST*

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

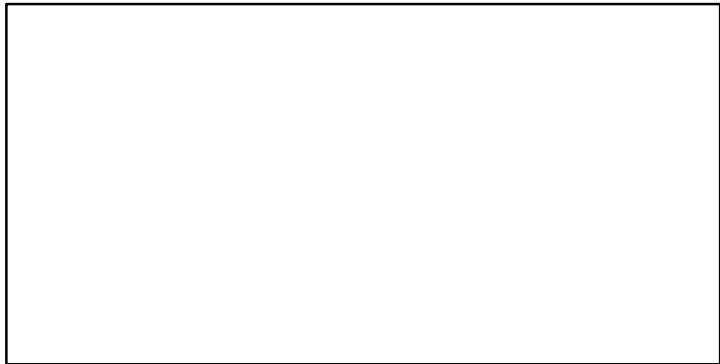
Herring ICES 3a–4–7d [HERRNS–IIIa–VIId]

TC–MT, TL*, RecC* (1947–2023–ICESIMP2024)

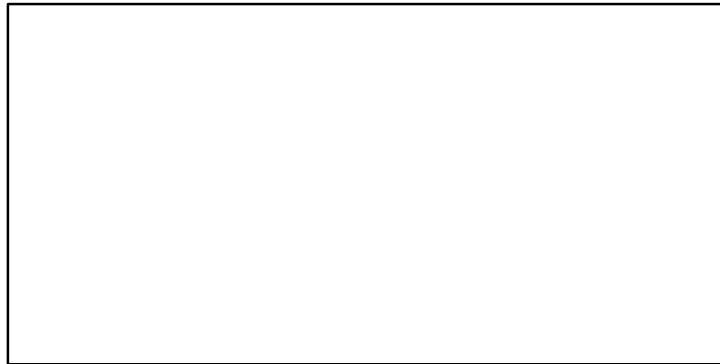
TAC*, Cpair*, Cadv*



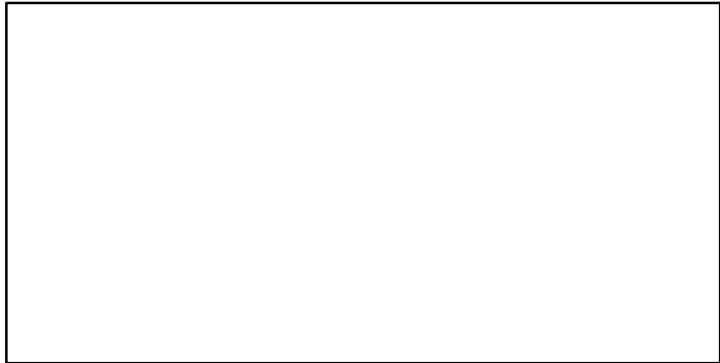
survB*



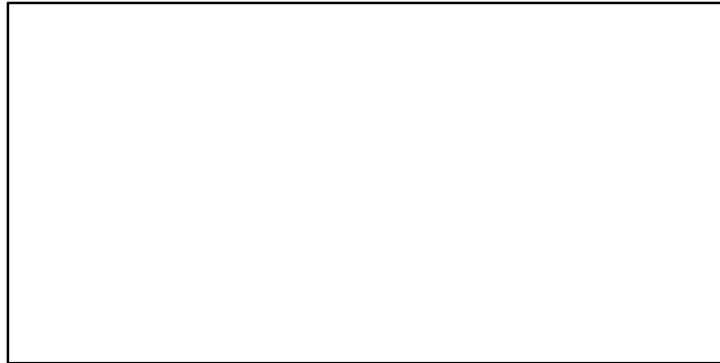
CPUE*



EFFORT*



CdivMSY*



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

Herring Gulf of Riga East of Gotland [HERRRIGA]

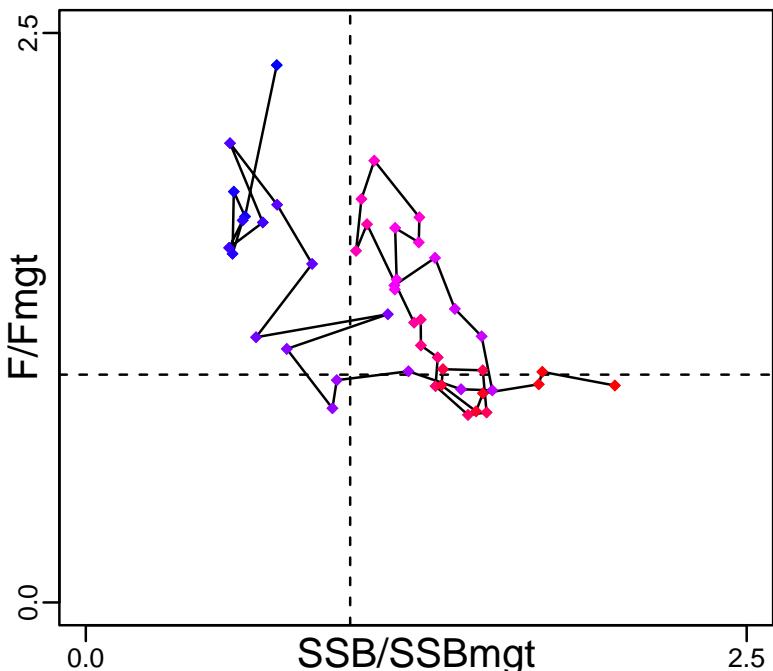
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERRRIGA-1977-2023-ICESIMP2024
Area	Gulf of Riga East of Gotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2023

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.32
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	72,907
Fmgt	Fmgt-1/yr	2023	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	52,076
Flim	Flim-1/yr	2023	0.49
ERlim	-	-	-

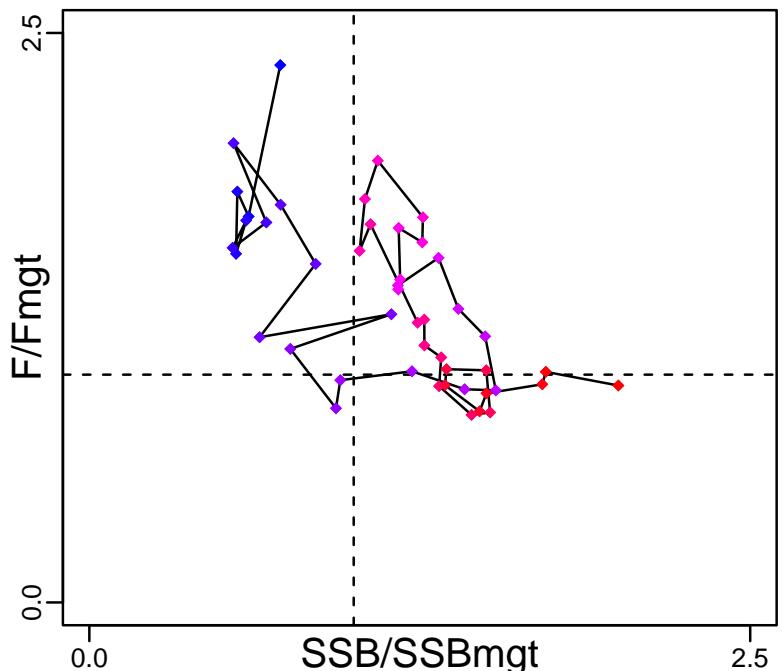
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	177,796	-	-	
SSB	SSB-MT	2023	139,870	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	4,097,984	-	0	
F	F-1/yr	2023	0.267	-	2 to 6	
ER	ER-calc-ratio	2019	0.145	-	-	
TC	TC-MT	2017	30,900			
TL	TL-MT	2023	41,117			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.889			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	1.918			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.952			
ER/ERmgt	-	-	-			

Herring Gulf of Riga East of Gotland [HERRRIGA]

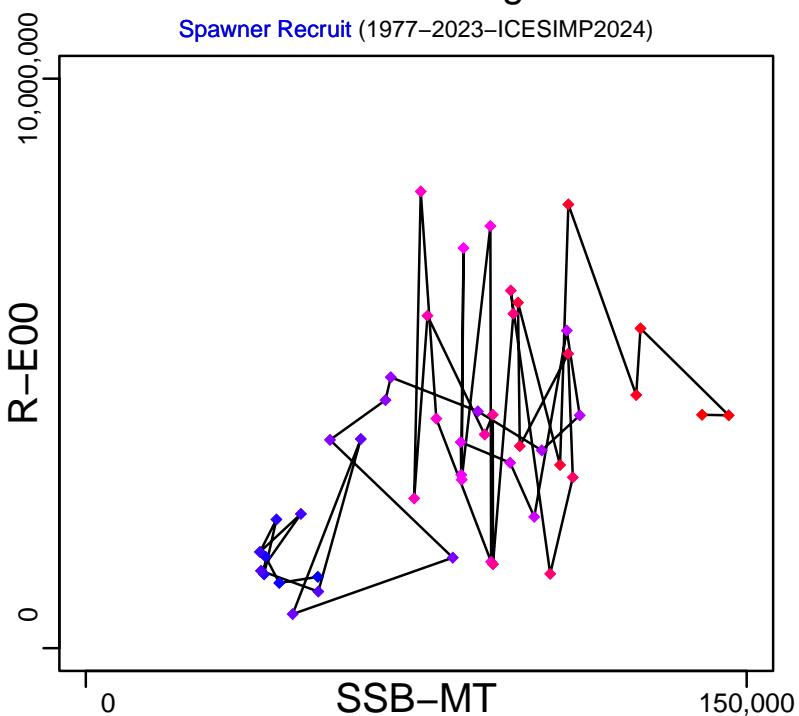
Kobe MSYpref (1977–2023–ICESIMP2024)



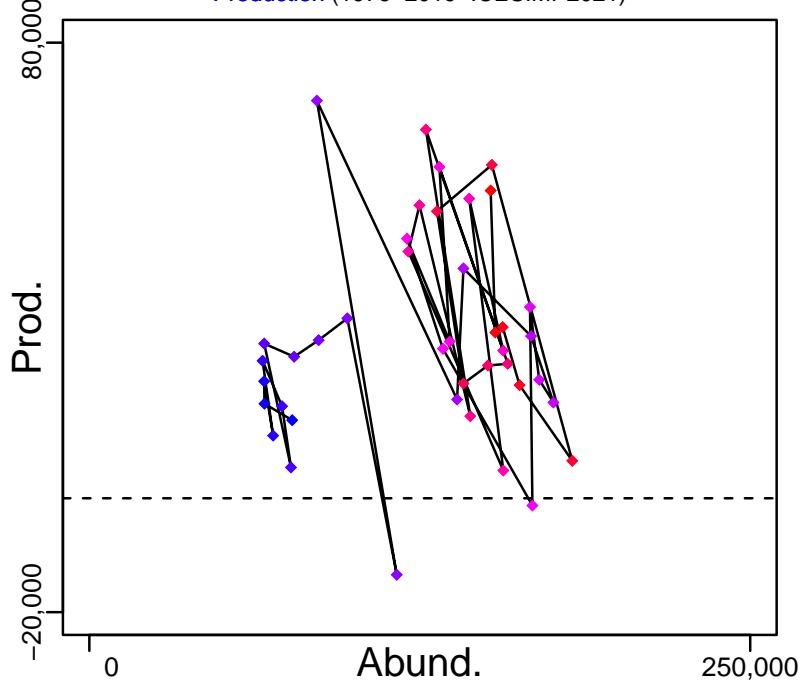
Kobe MGTpref (1977–2023–ICESIMP2024)



Spawner Recruit (1977–2023–ICESIMP2024)



Production (1976–2019–ICESIMP2021)

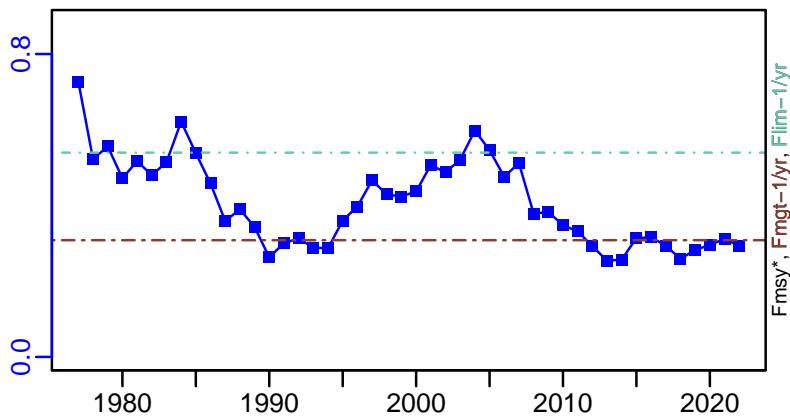
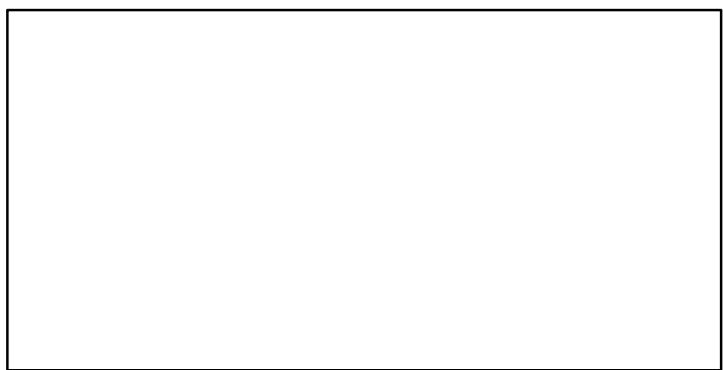
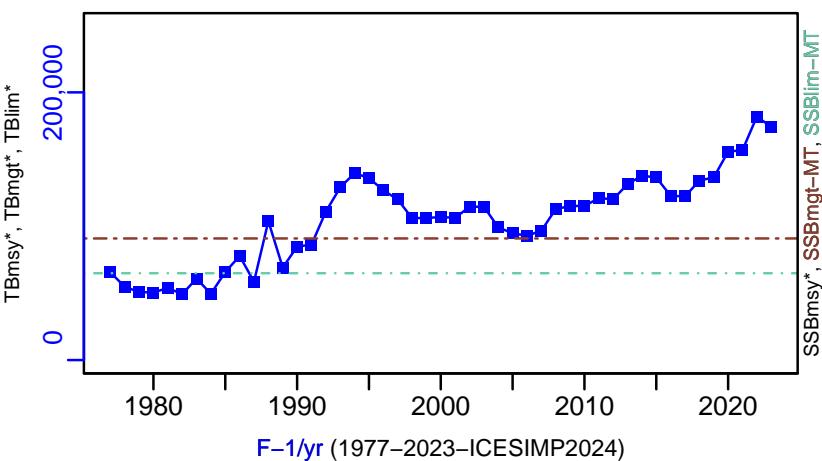
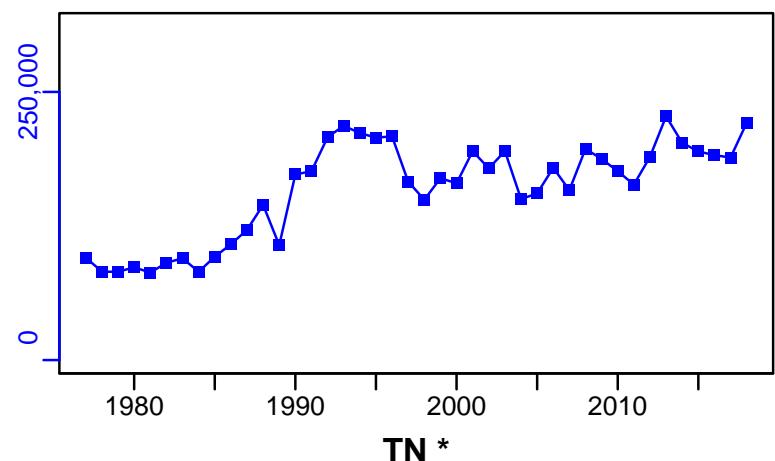


◆ Start Year ◆ End Year * No Data

Herring Gulf of Riga East of Gotland [HERRRIGA]

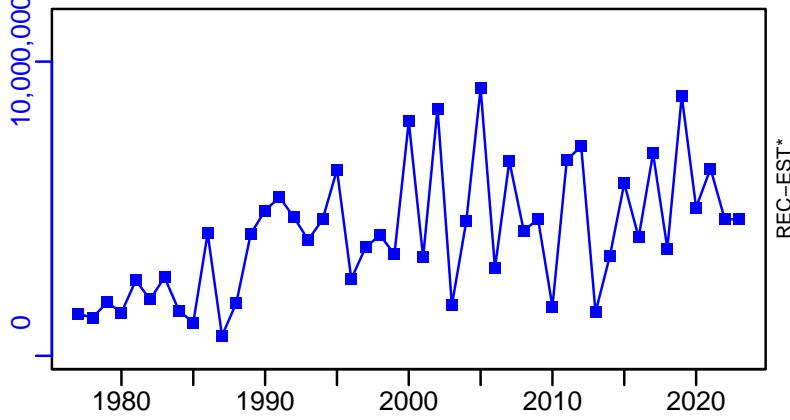
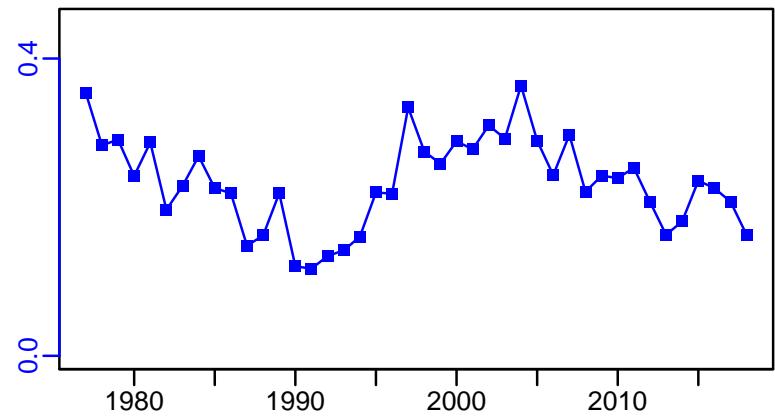
TB-MT (1976–2019–ICESIMP2021)

SSB-MT (1977–2023–ICESIMP2024)



ER-calc-ratio (1976–2019–ICESIMP2021)

R-E00 (1977–2023–ICESIMP2024)

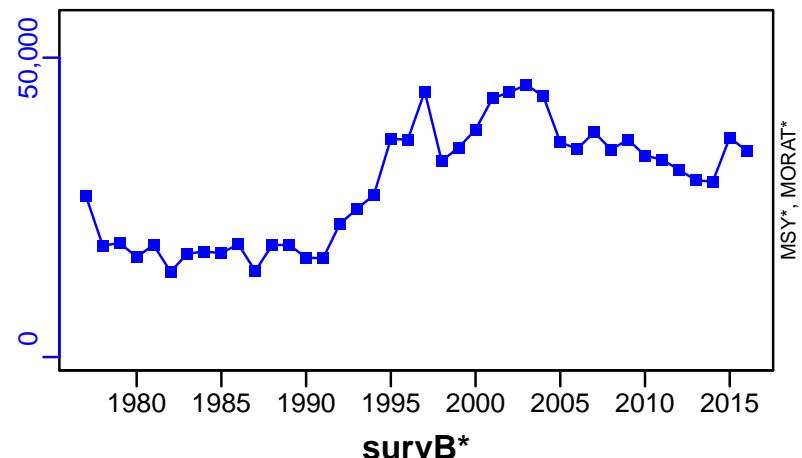


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Herring Gulf of Riga East of Gotland [HERRRIGA]

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

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

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

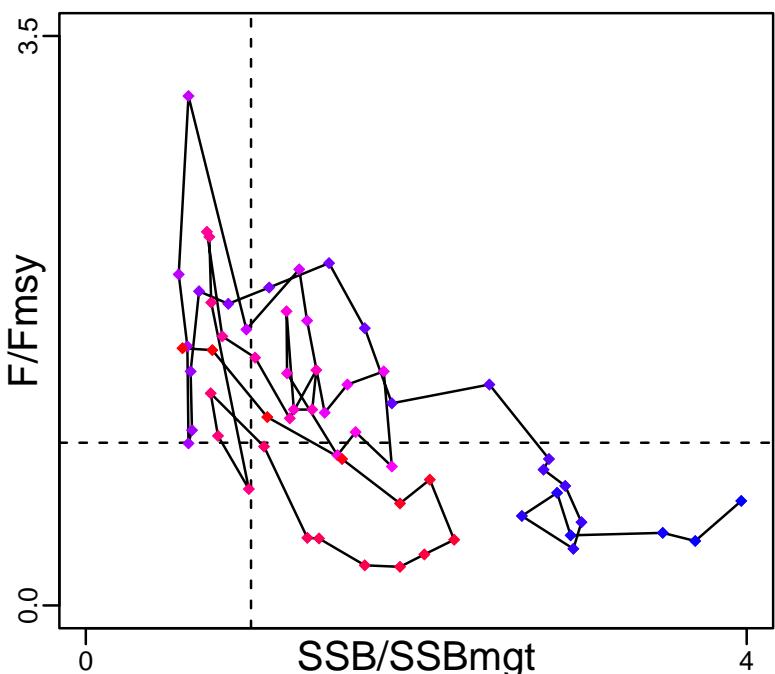
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRSIRS-1958-2021-ICESIMP2021-2
Area	ICES 7a-g-h-j-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	61,000
Fmgt	Fmgt-1/yr	2021	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	34,000
Flim	Flim-1/yr	2021	0.45
ERlim	-	-	-

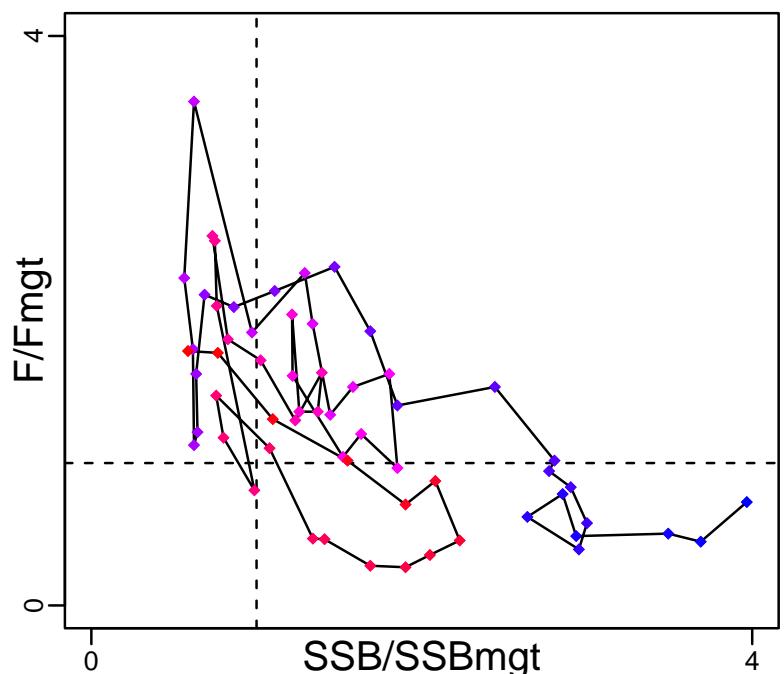
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	61,300	Both	-
SSB	SSB-MT	2021	19,300	-	-
TN	-	-	-	-	-
R	R-E00	2021	165,000	-	1
F	F-1/yr	2021	0.023	-	-
ER	ER-calc-ratio	2018	0.176	-	-
TC	TC-MT	2021	132		
TL	TL-MT	2019	4420		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.087		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.561		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.087		
ER/ERmgt	-	-	-		

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

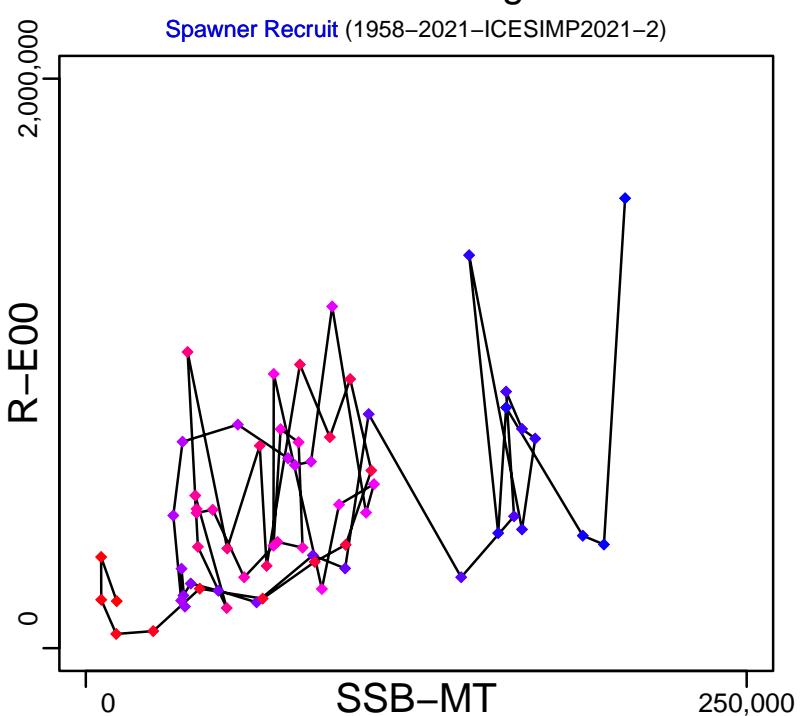
Kobe MSYpref (1957–2018–ICESIMP2018)



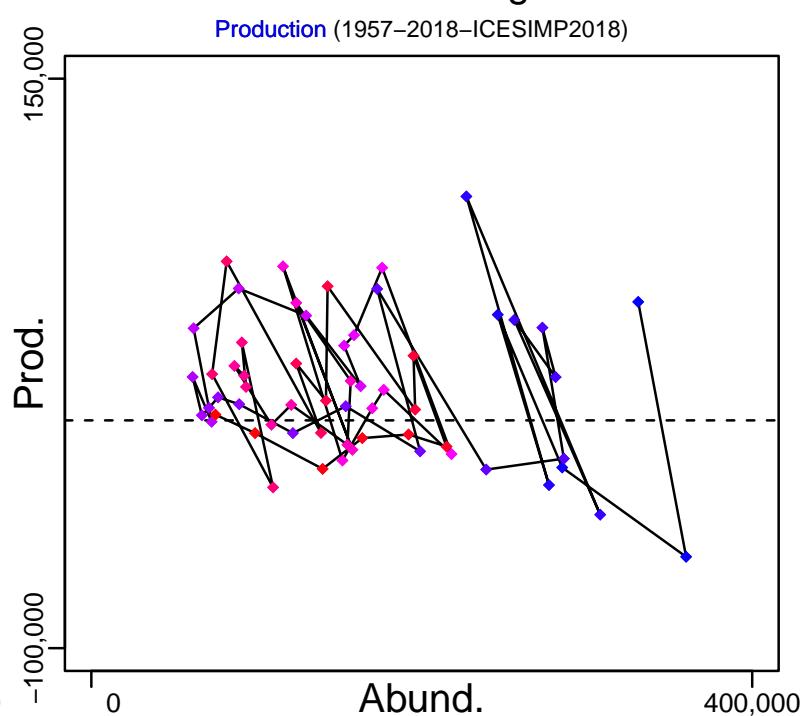
Kobe MGTpref (1957–2018–ICESIMP2018)



Spawner Recruit (1958–2021–ICESIMP2021–2)



Production (1957–2018–ICESIMP2018)

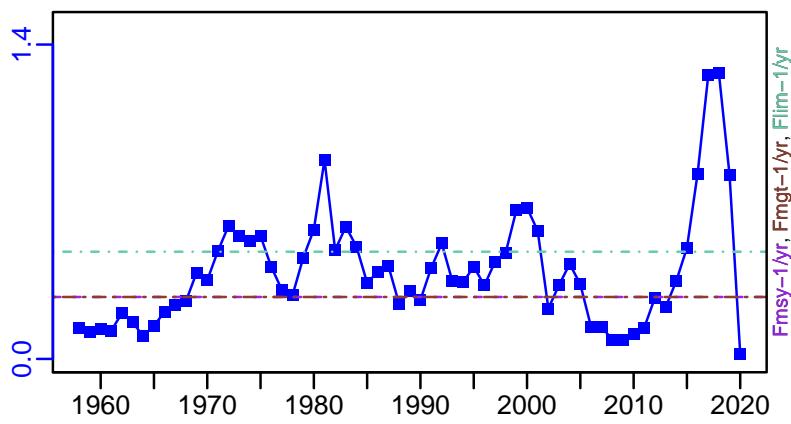
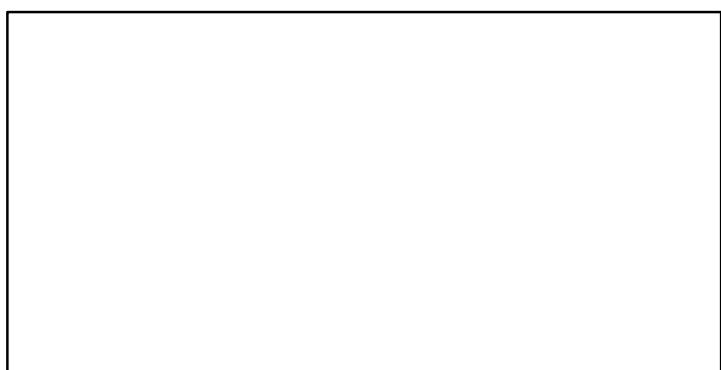
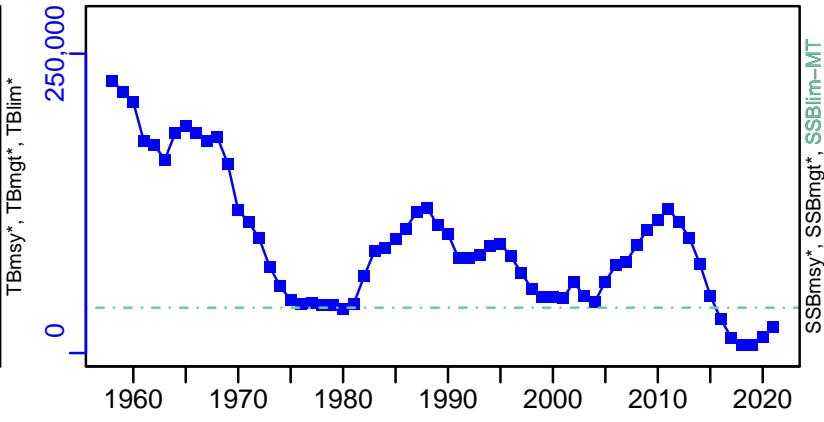
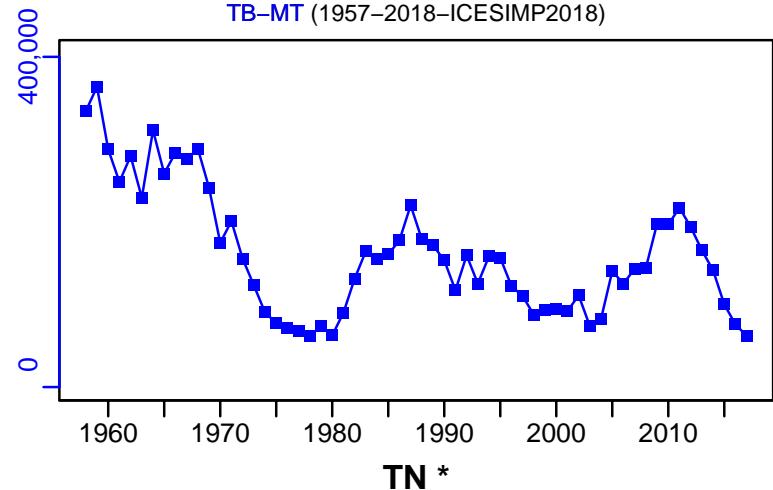


◆ Start Year ◆ End Year * No Data

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

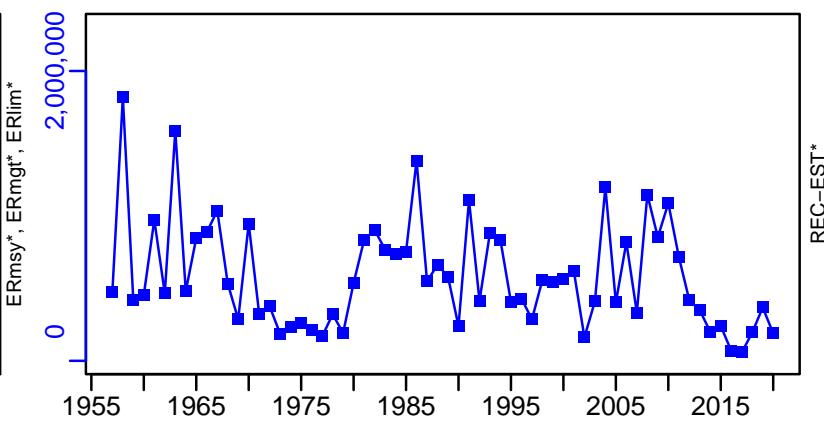
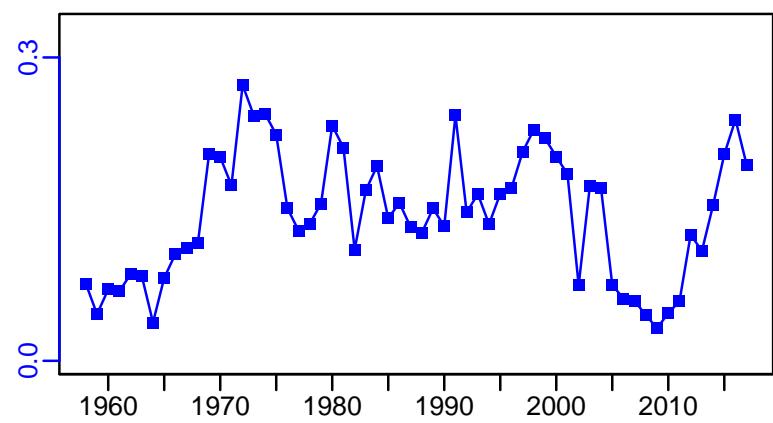
TB-MT (1957–2018–ICESIMP2018)

SSB-MT (1958–2021–ICESIMP2021–2)



ER-calc-ratio (1957–2018–ICESIMP2018)

R-E00 (1958–2021–ICESIMP2021–2)

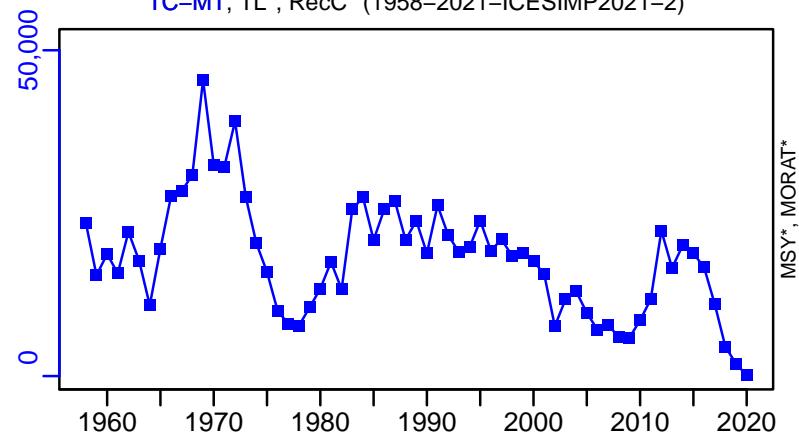


■	Listed time series	---	Target BRP	—	Rec-Est
-	MSY-based BRP	---	Lim BRP	*	No Data

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

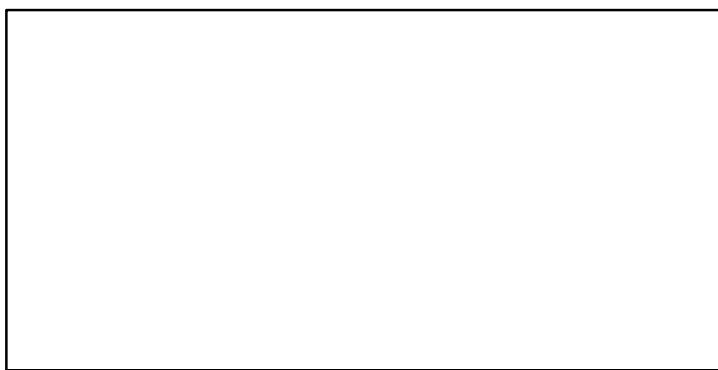
TC-MT, TL*, RecC* (1958–2021–ICESIMP2021-2)

TAC*, Cpair*, Cadv*



survB*

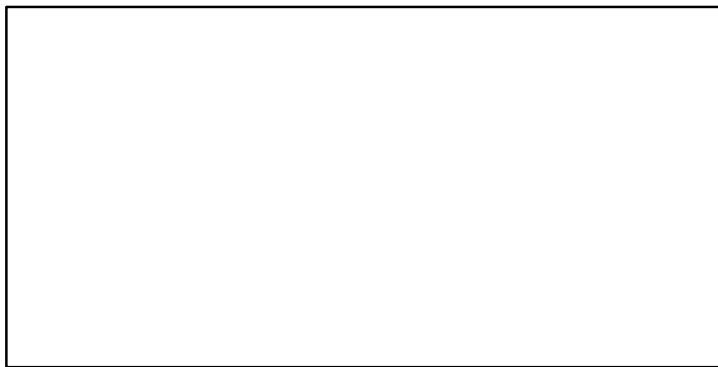
MSY*, MORAT*



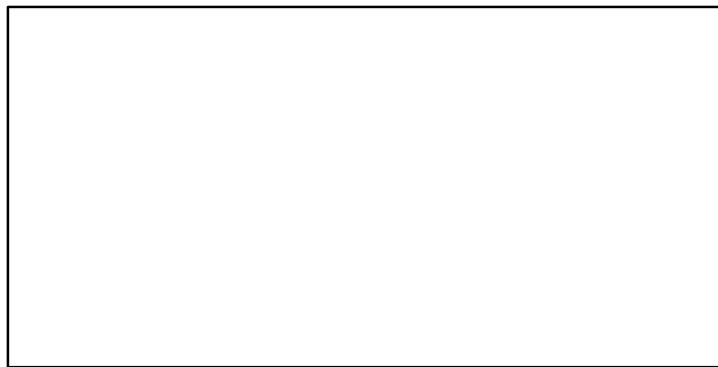
CPUE*



EFFORT*



CdivMSY*



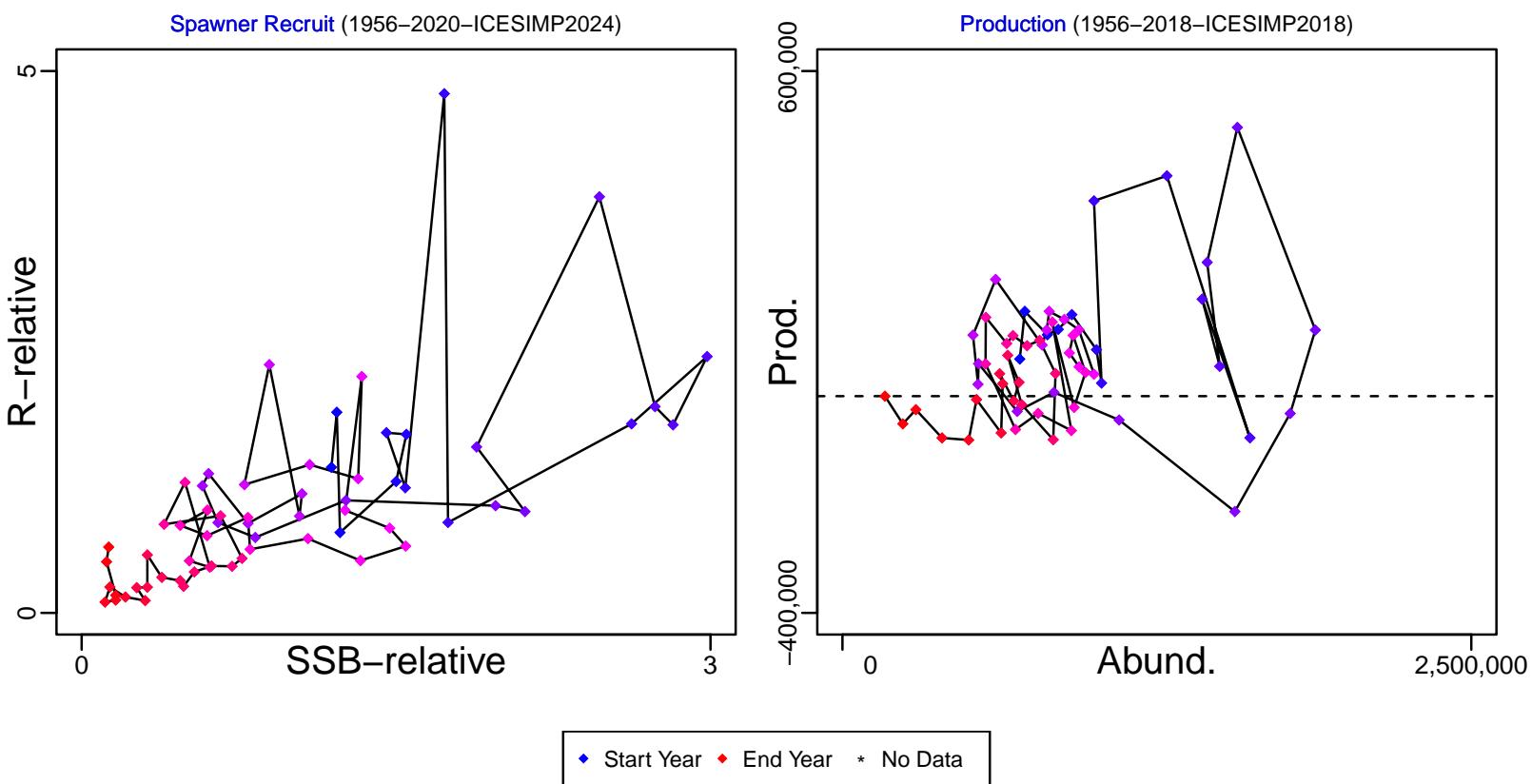
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Herring ICES 6a7bc [HERRVlaVIIbc]

Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVlaVIIbc-1956-2020-ICESIMP2024
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, 2020, 2019

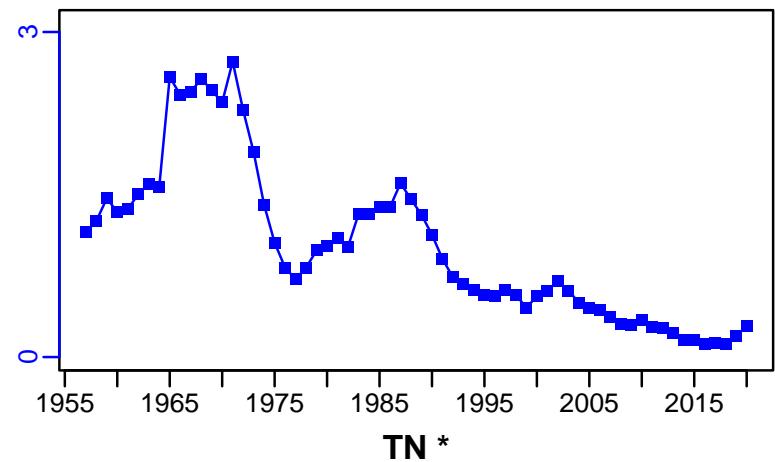
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.16
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2014	110,000
Fmgt	Fmgt-1/yr	2018	0.16
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	250,000
Flim	Flim-1/yr	2018	0.3
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-relative	2020	0.28	-	-	
SSB	SSB-relative	2020	0.184	-	-	
TN	-	-	-	-	-	
R	R-relative	2020	0.607	-	1	
F	F-relative	2020	0.136	-	3 to 6	
ER	ER-calc-ratio	2018	0.04	-	-	
TC	TC-MT	2019	3430			
TL	TL-MT	2020	1397			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.381			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.381			
ER/ERmgt	-	-	-			

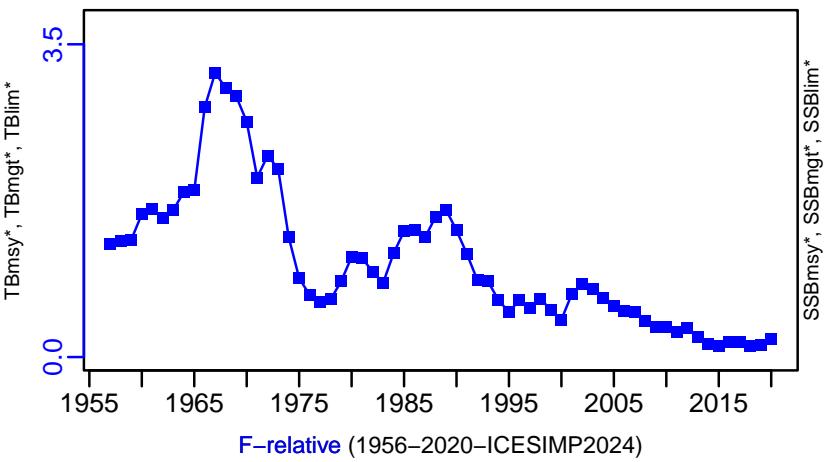
Kobe MSY***Kobe MGT***

Herring ICES 6a7bc [HERRVlaVIIbc]

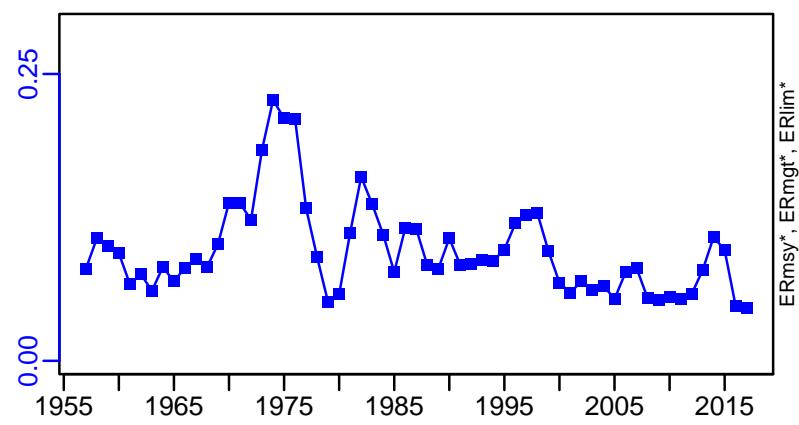
TB-relative (1956–2020–ICESIMP2024)



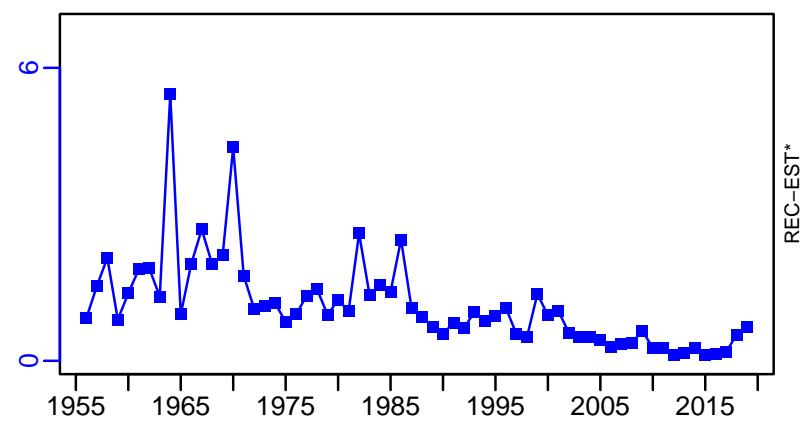
SSB-relative (1956–2020–ICESIMP2024)



ER-calc-ratio (1956–2018–ICESIMP2018)



R-relative (1956–2020–ICESIMP2024)

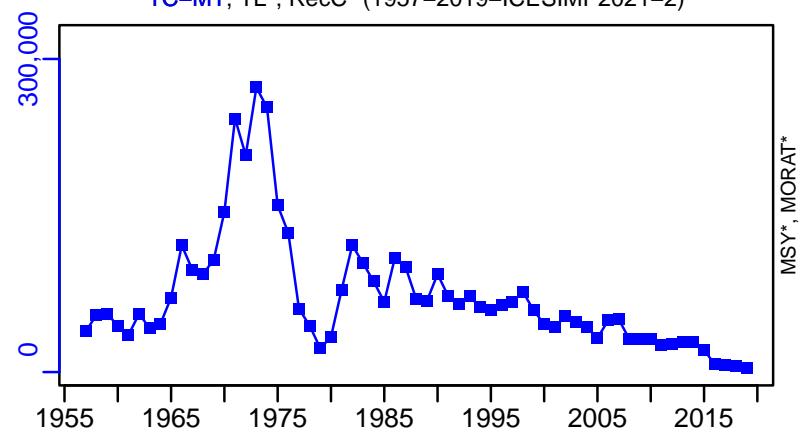


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	··· Lim BRP	* No Data

Herring ICES 6a7bc [HERRVlaVIIbc]

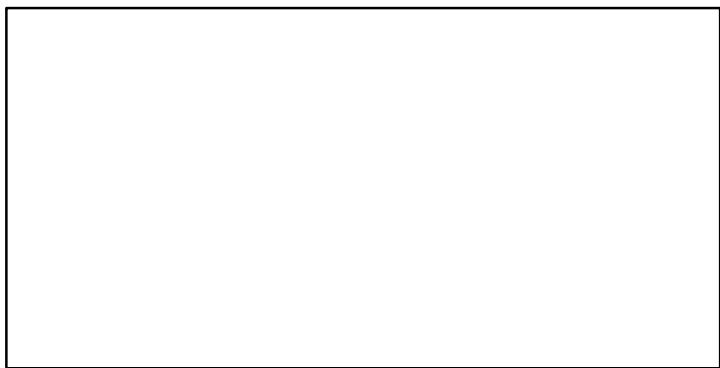
TC-MT, TL*, RecC* (1957–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*

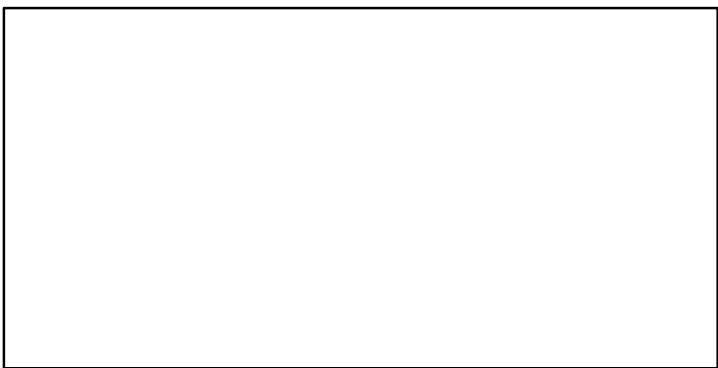


survB*

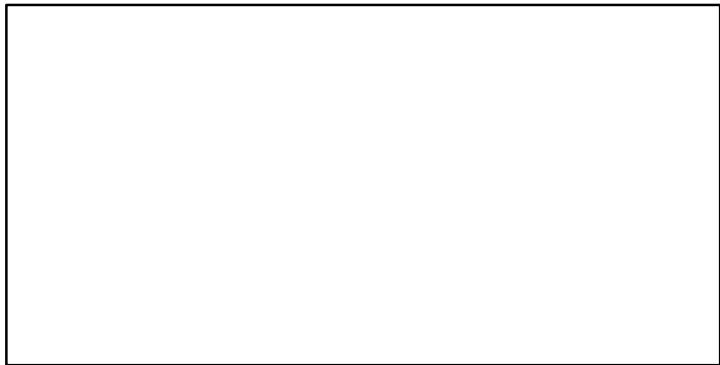
MSY*, MORAT*



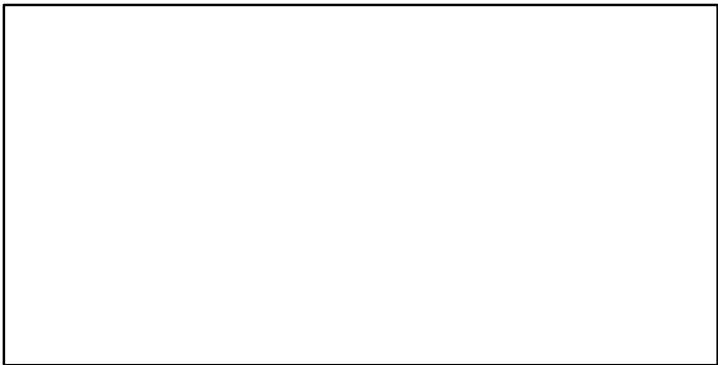
CPUE*



EFFORT*



CdivMSY*



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

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

Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWISE-HMACKIIa-IVa-Vb-VIa-VII-VIII-1982-2020-ICESIMP2021-2
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, 2020

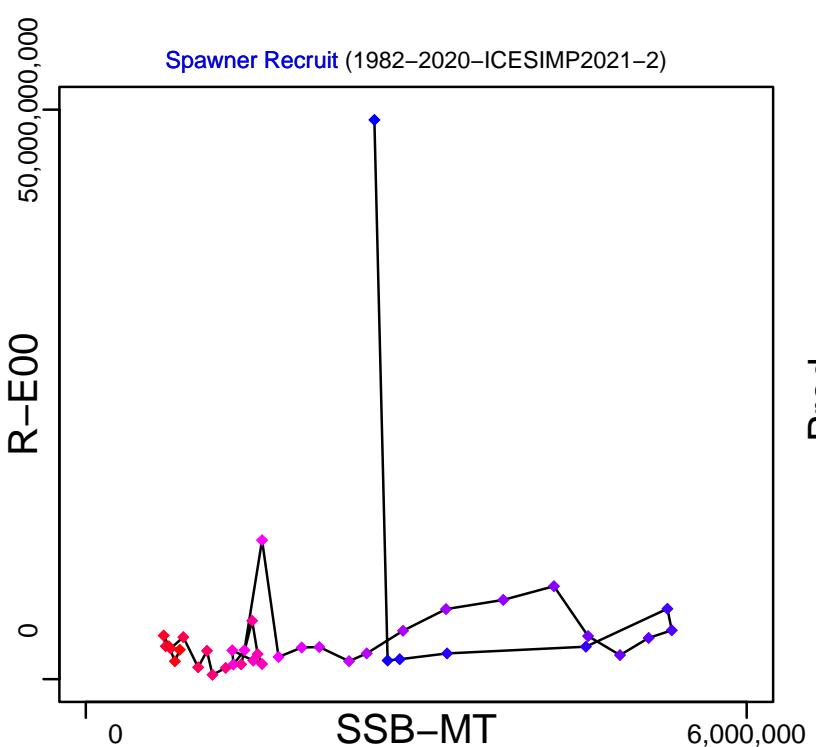
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.074
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2020	0.074
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	834,000
Flim	Flim-1/yr	2020	0.103
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	1,070,000	Both	-
SSB	SSB-MT	2020	853,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	2.58×10^9	-	0
F	F-1/yr	2020	0.109	-	-
ER	ER-calc-ratio	2017	0.098	-	-
TC	TC-MT	2020	125,000		
TL	TL-MT	2019	99,072		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.473		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.473		
ER/ERmgt	-	-	-		

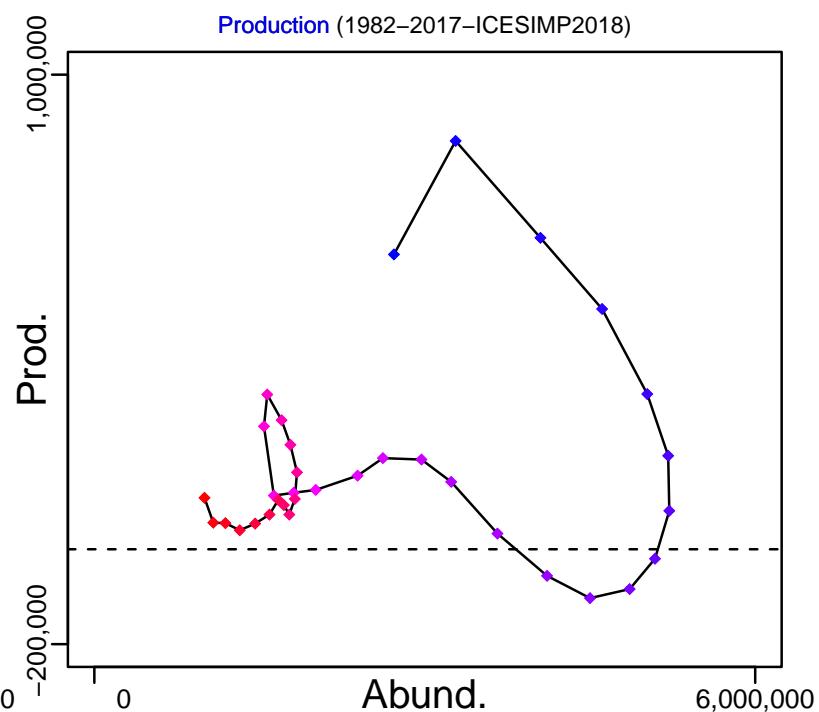
Kobe MSY*

Kobe MGT*

Spawner Recruit (1982–2020–ICESIMP2021–2)



Production (1982–2017–ICESIMP2018)

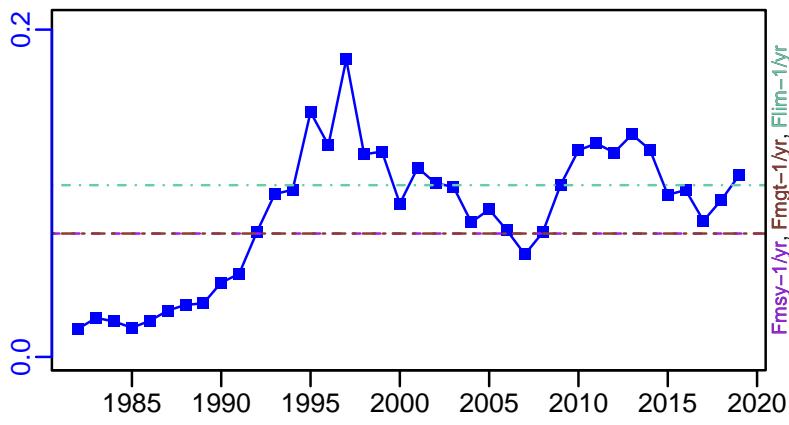
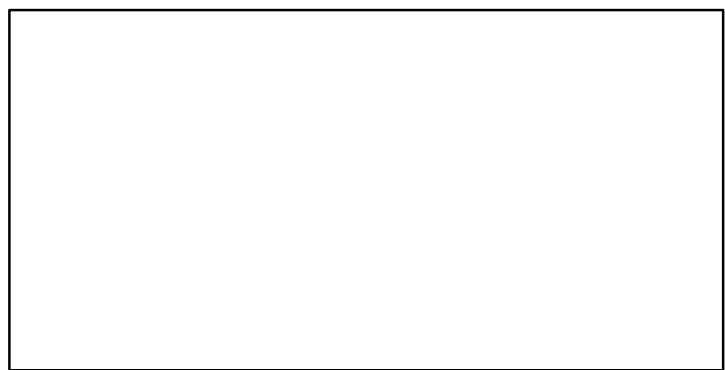
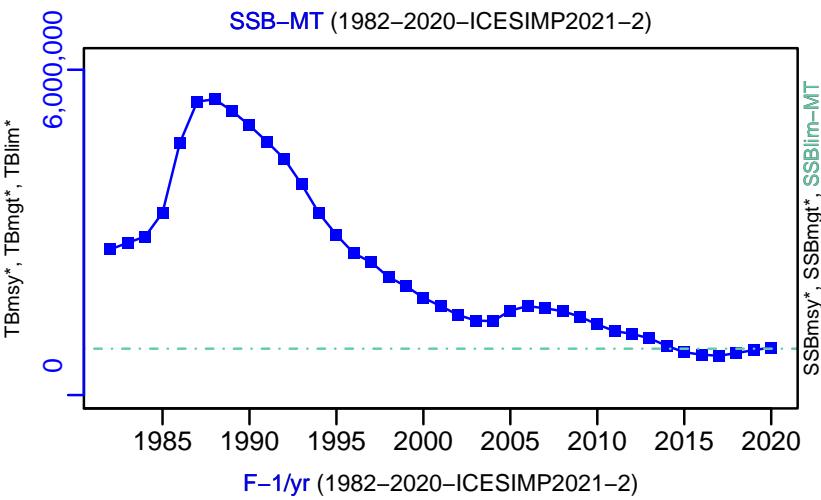
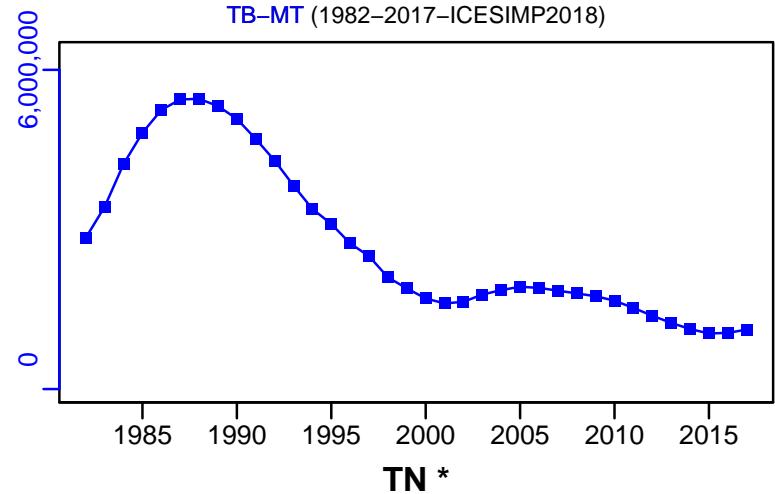


◆ Start Year ◆ End Year * No Data

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

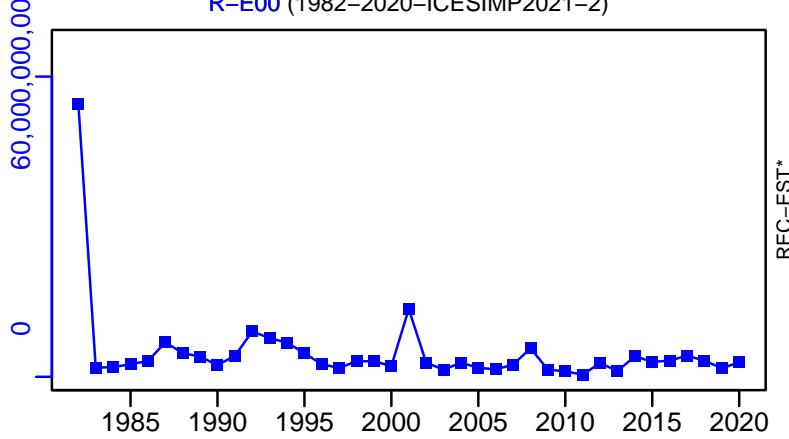
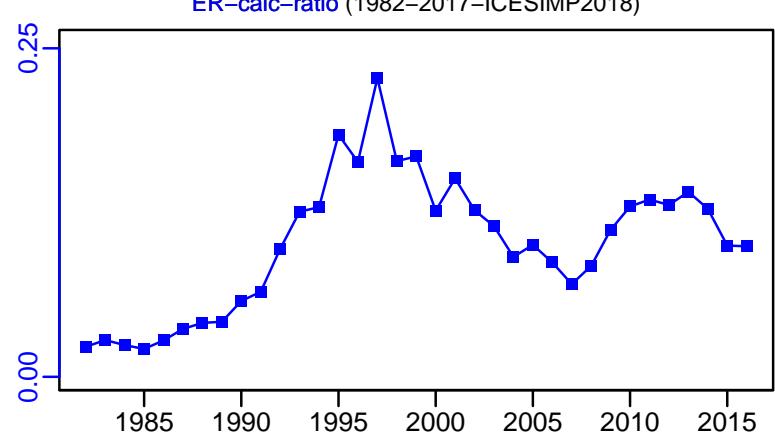
TB-MT (1982–2017–ICESIMP2018)

SSB-MT (1982–2020–ICESIMP2021–2)



ER-calc-ratio (1982–2017–ICESIMP2018)

R-E00 (1982–2020–ICESIMP2021–2)

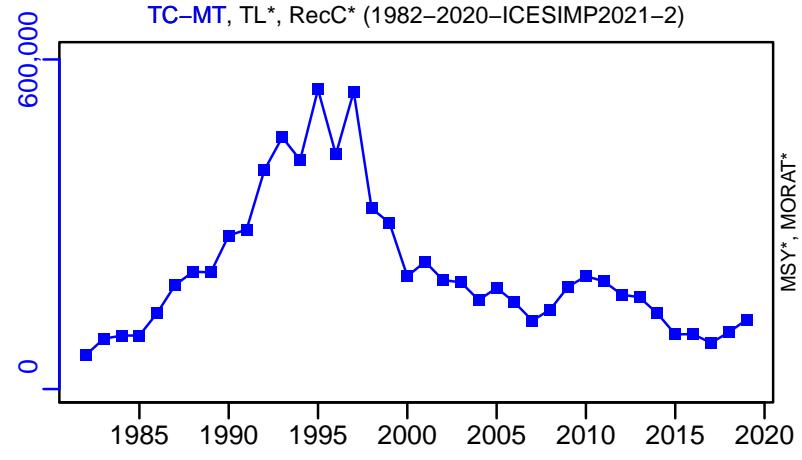


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

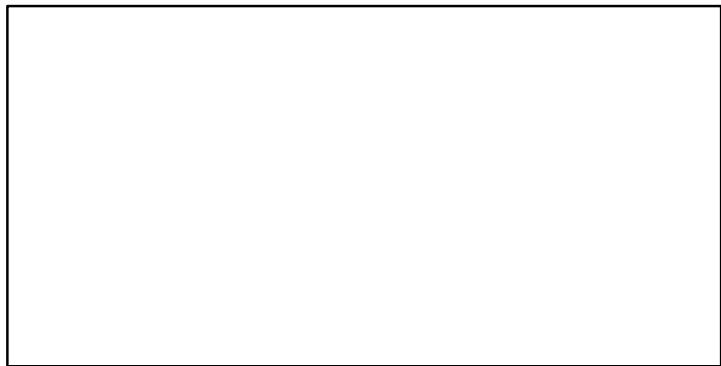
Horse mackerel ICES 2a–4a–5b–6a–7–8 [HMACKIIa–IVa–Vb–VIa–VII–VIII]

TC–MT, TL*, RecC* (1982–2020–ICESIMP2021–2)

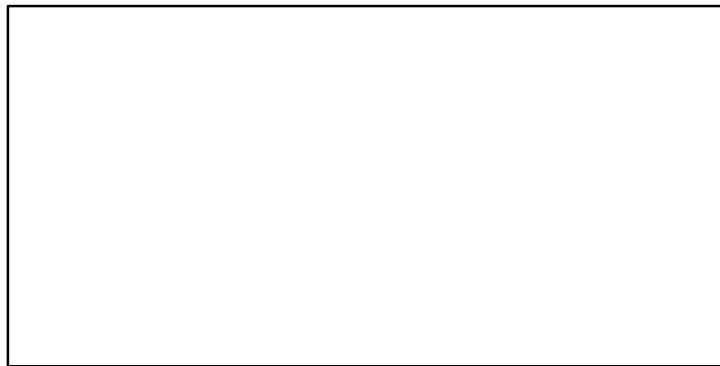
TAC*, Cpair*, Cadv*



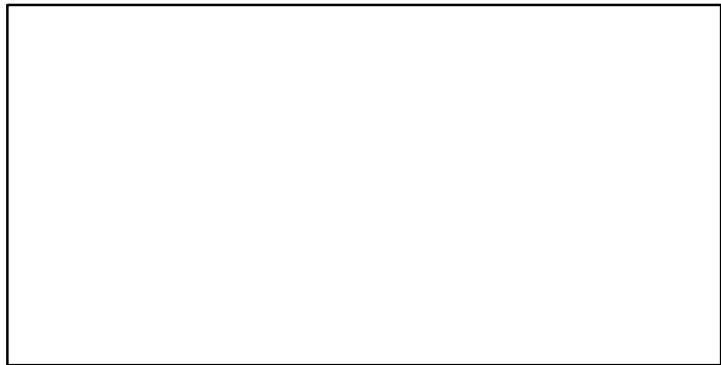
survB*



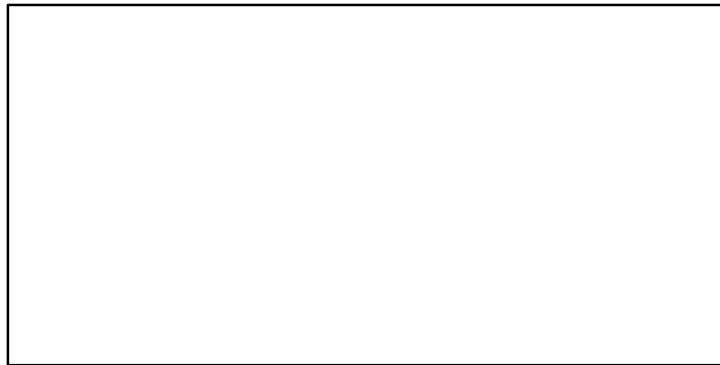
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 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	WGWISE-HMACKIIIa-IVbc-VIId-1982-2020-ICESIMP2021-2
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, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	12,600		
TL	TL-MT	2020	12,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

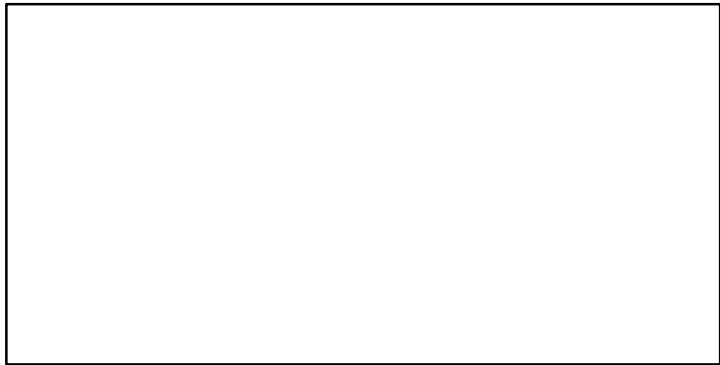
Spawner Recruit*

Production*

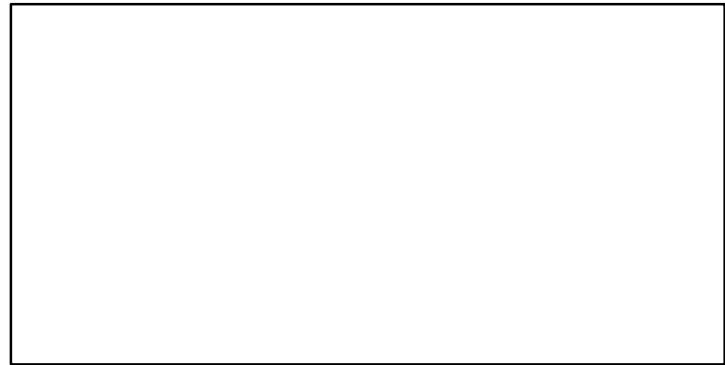
◆ Start Year ♦ End Year * No Data

Horse mackerel ICES 3a–4bc–7d [HMACKIIIa–IVbc–VId]

TB*



SSB*



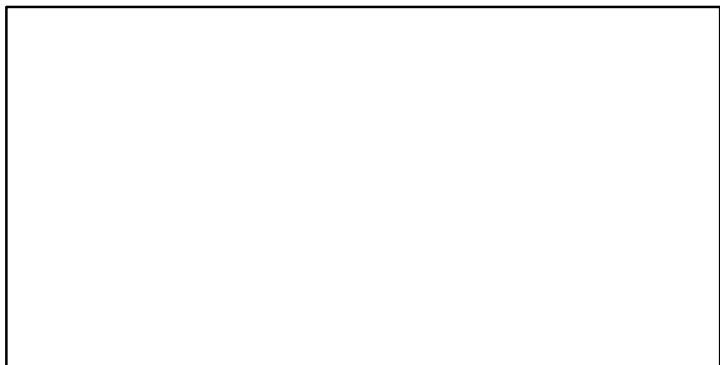
TN *



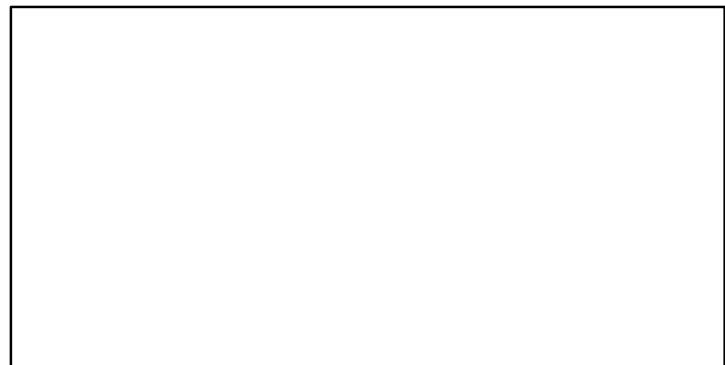
F*



ER*



Recruits*

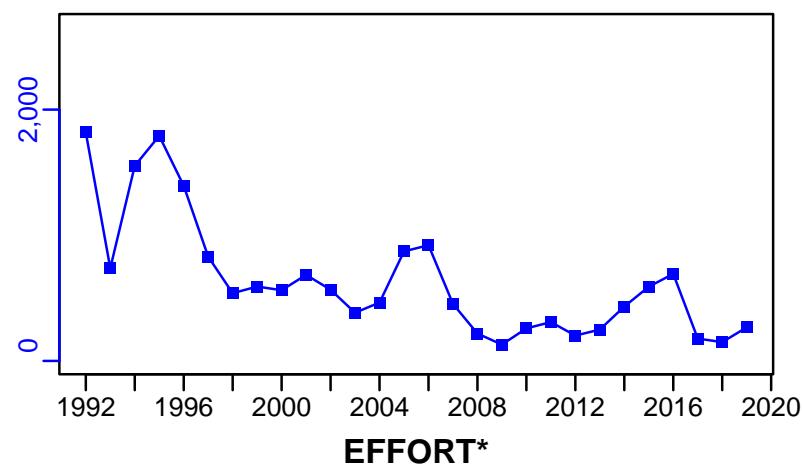
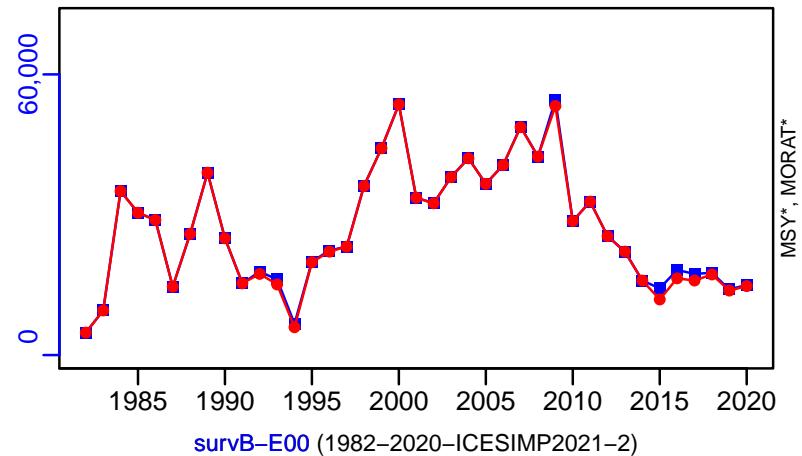


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Horse mackerel ICES 3a–4bc–7d [HMACKIIIa–IVbc–VIIId]

TC–MT, TL–MT, RecC* (1982–2020–ICESIMP2021–2)

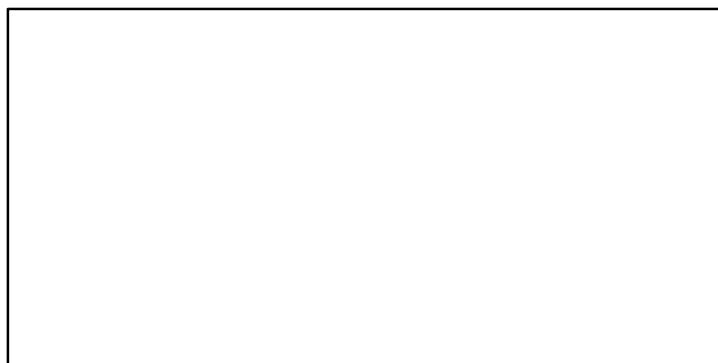
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

Horse mackerel Portugese Waters -East [HMACKIXa]

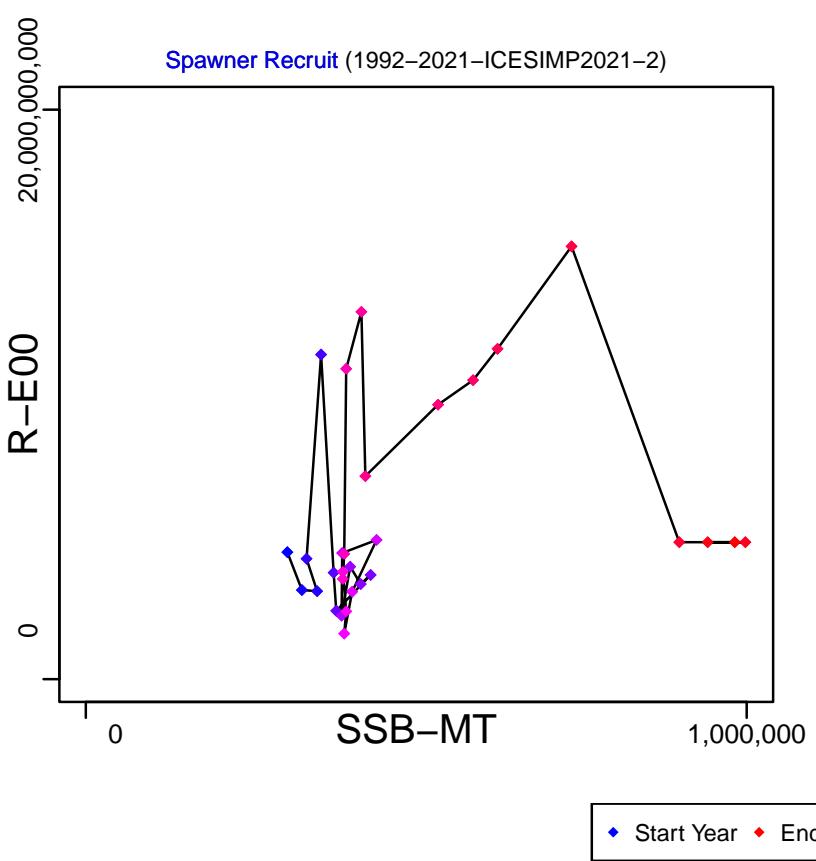
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGHANSA-HMACKIXa-1992-2021-ICESIMP2021-2
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.15
ERmsy	ERmsy-ratio	2019	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.15
ERmgt	ERmgt-ratio	2019	0.11
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	103,000
Flim	Flim-1/yr	2021	0.19
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	SSB-MT	2021	982,000	-	-	
TN	-	-	-	-	-	-
R	R-E00	2021	4.81×10^9	-	0	
F	F-1/yr	2021	0.024	-	-	
ER	ER-ratio	2019	0.029	-	2 to 10	
TC	TC-MT	2021	30,200			
TL	TL-MT	2021	30,200			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.162			
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.264			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.162			
ER/ERmgt	-	-	-			

Kobe MSY*

Kobe MGT*

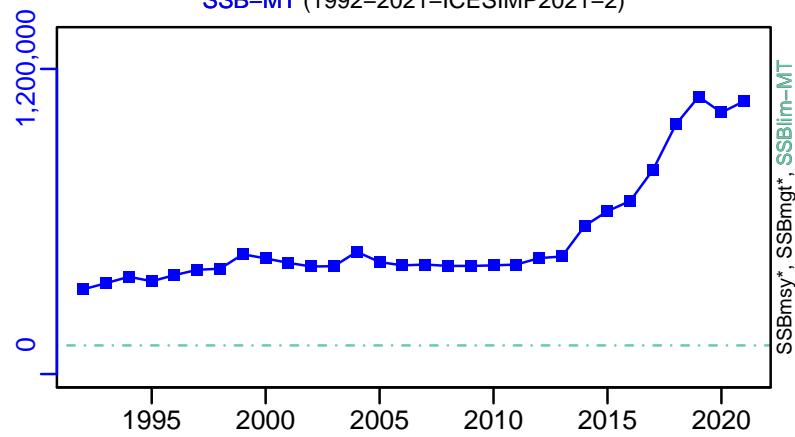


Horse mackerel Portuguese Waters –East [HMACKIXa]

TB*



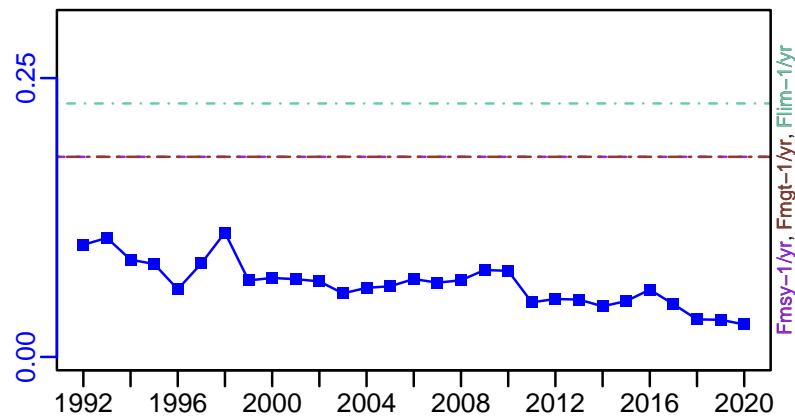
SSB-MT (1992–2021–ICESIMP2021–2)



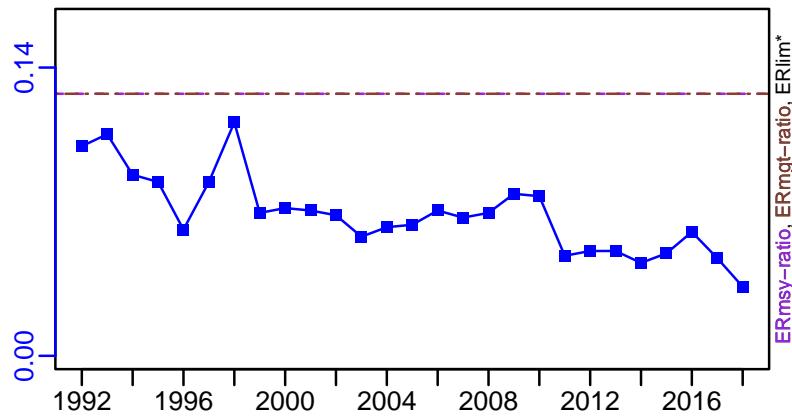
TN *



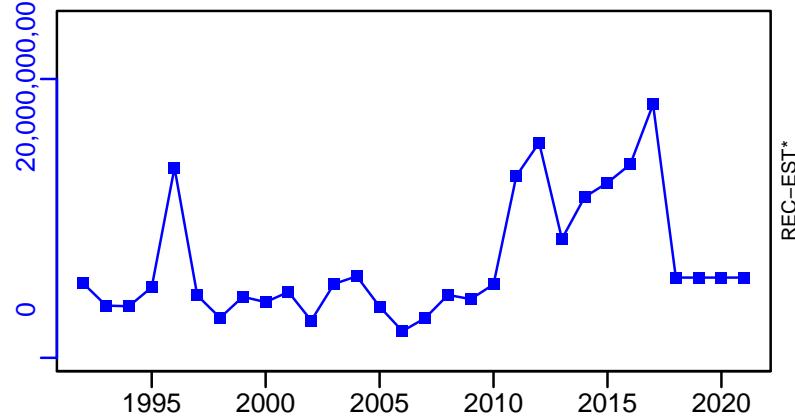
F-1/yr (1992–2021–ICESIMP2021–2)



ER-ratio (1992–2019–ICESIMP2021)



R-E00 (1992–2021–ICESIMP2021–2)

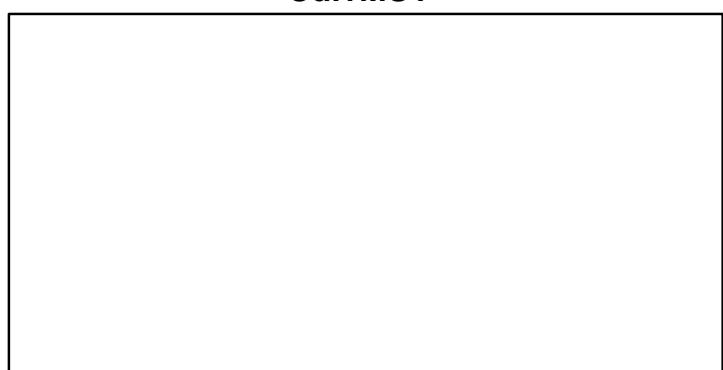
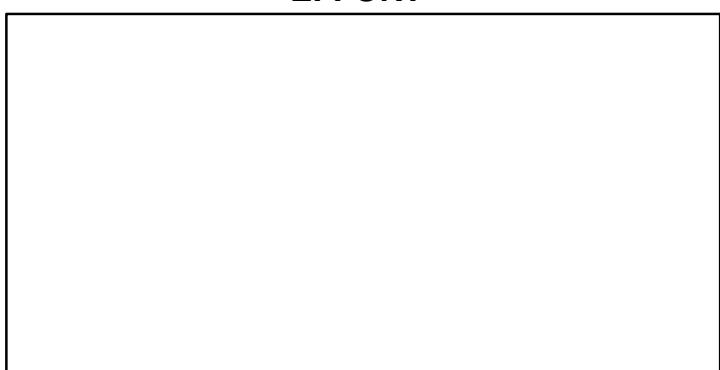
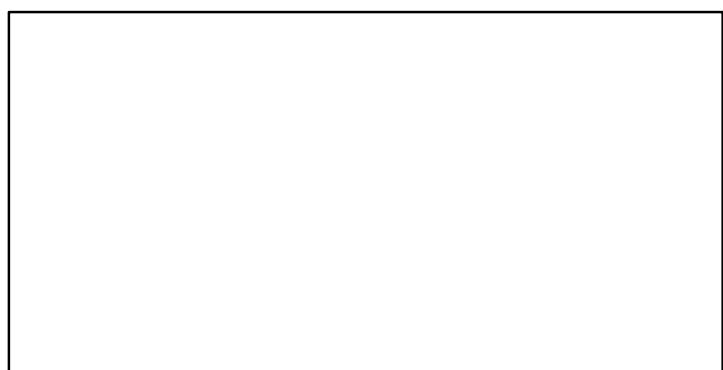
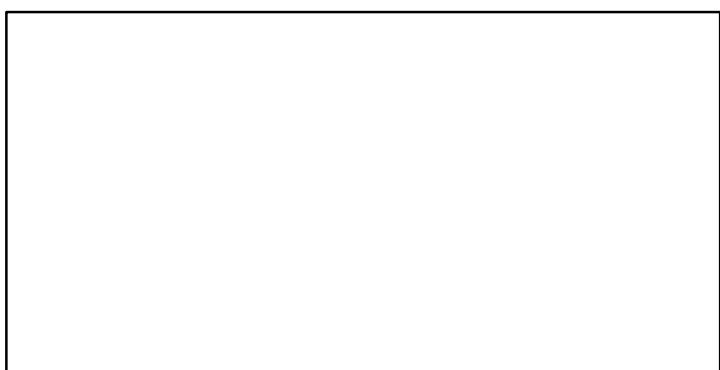
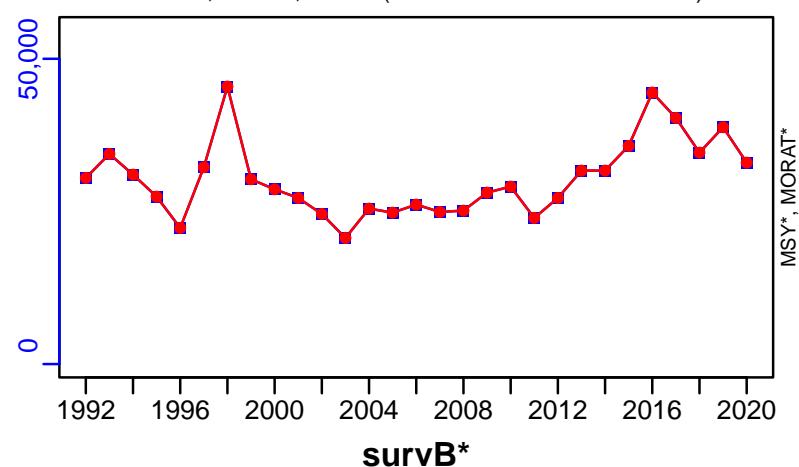


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Horse mackerel Portuguese Waters –East [HMACKIXa]

TC–MT, TL–MT, RecC* (1992–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



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

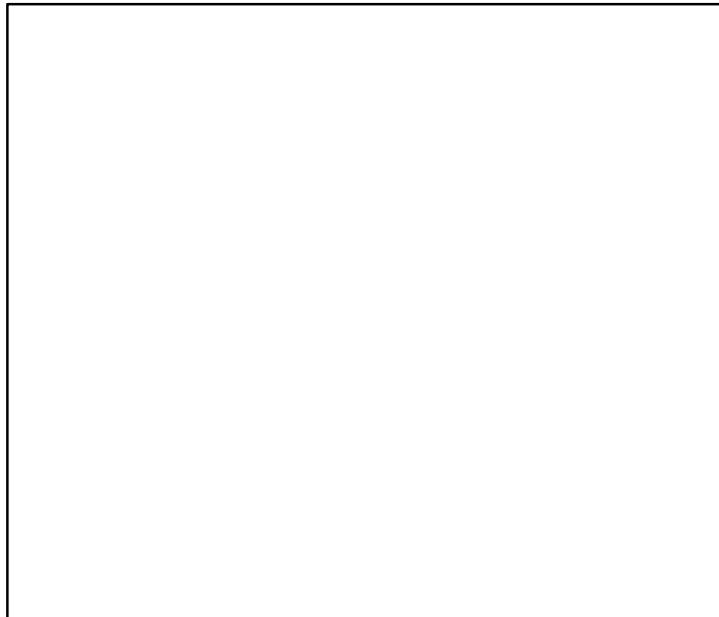
Kitefin shark Northeast Atlantic [KFSHARNEATL]

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

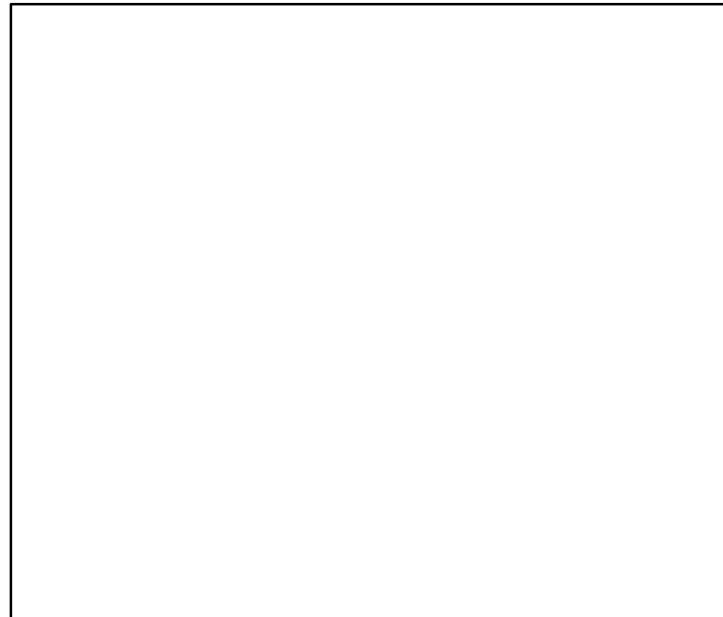
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kitefin shark Northeast Atlantic [KFSHARNEATL]

TB*



SSB*



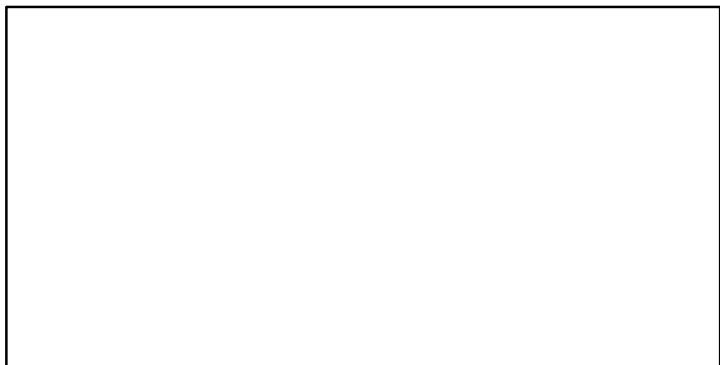
TN *



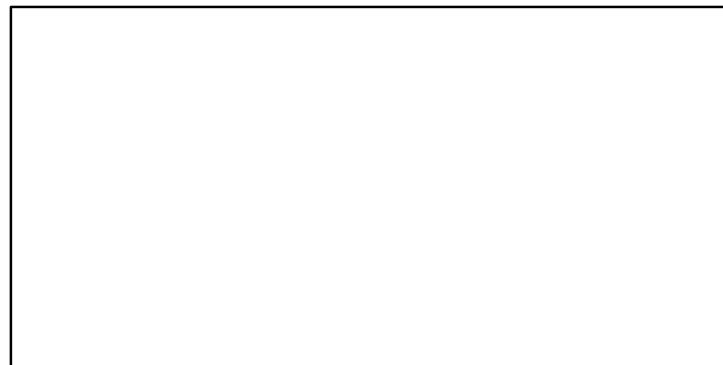
F*



ER*



Recruits*

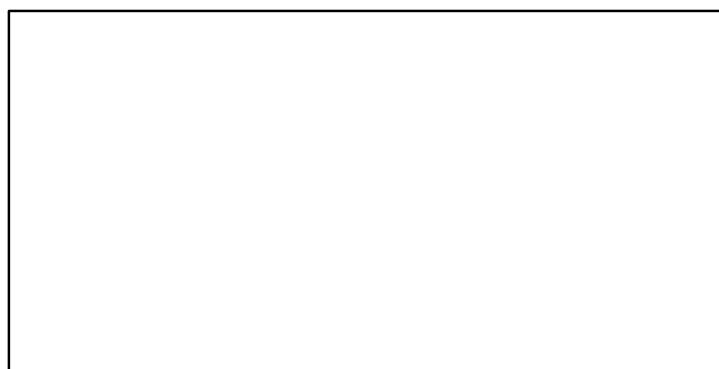
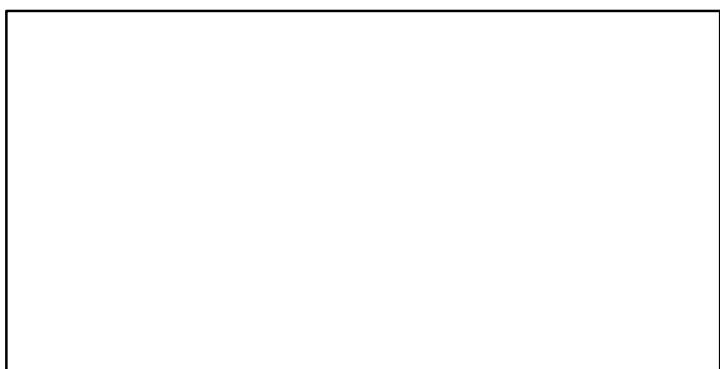
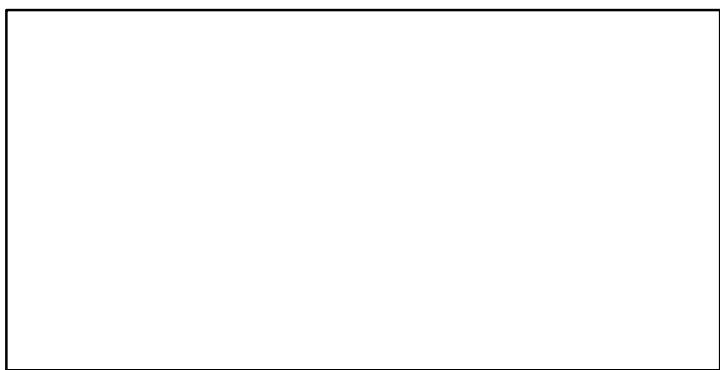
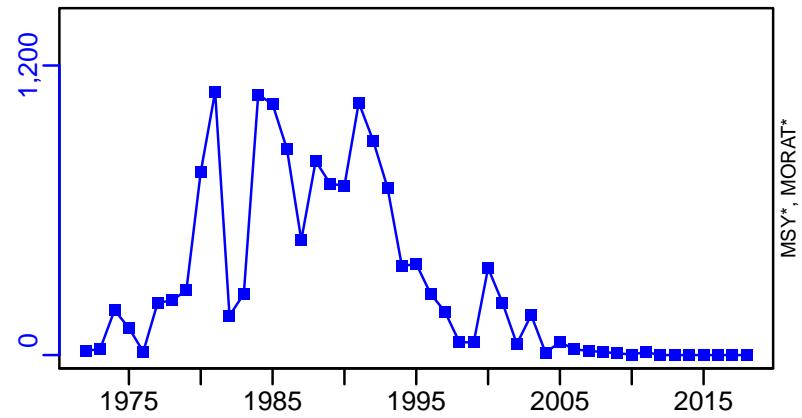


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Kitefin shark Northeast Atlantic [KFSHARNEATL]

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

TAC*, Cpair*, Cadv*



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

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	-	-	-		

Kobe MSY*

Kobe MGT*

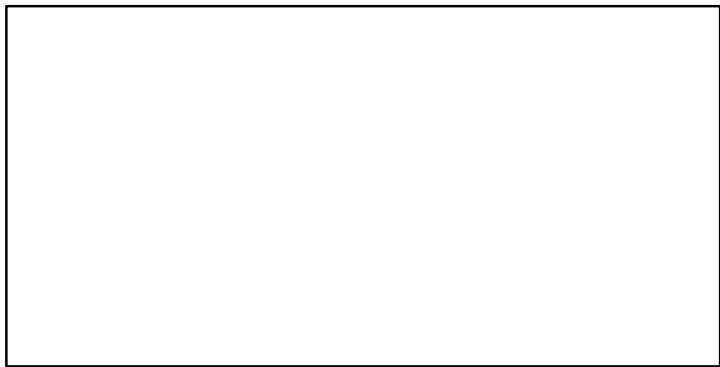
Spawner Recruit*

Production*

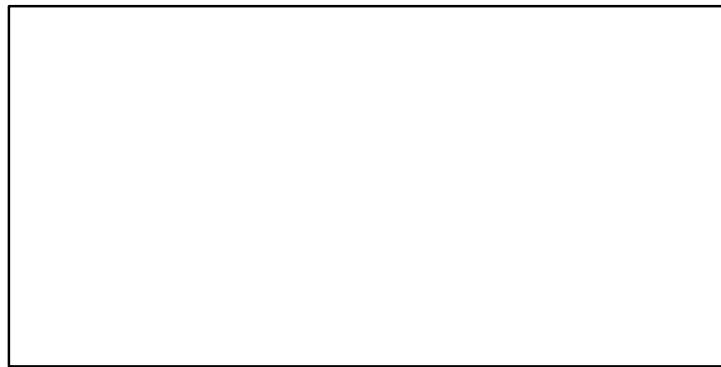
◆ Start Year ♦ End Year * No Data

Leafscale gulper shark Northeast Atlantic [LGSHEARNEATL]

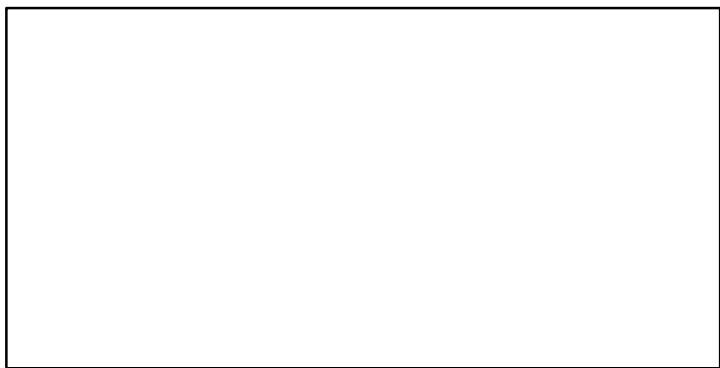
TB*



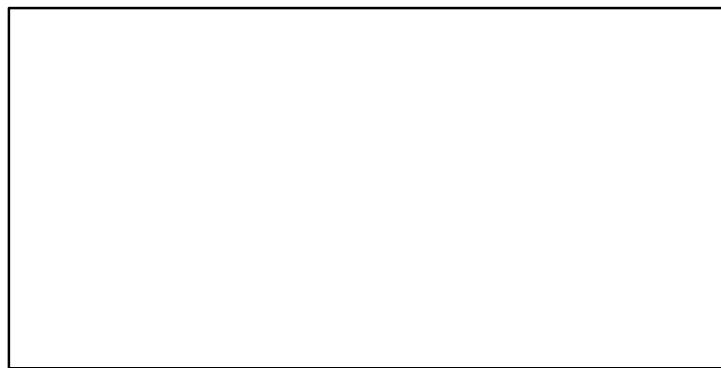
SSB*



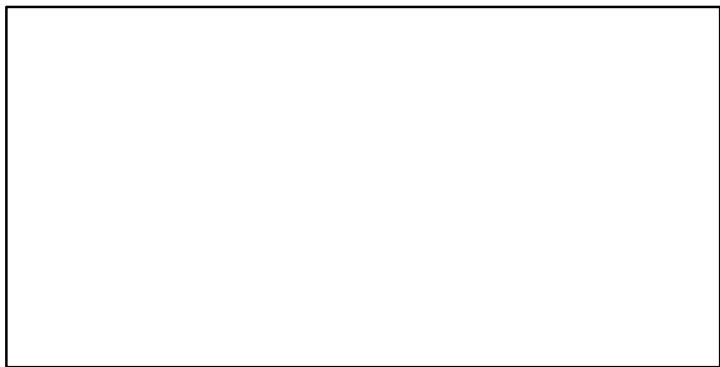
TN *



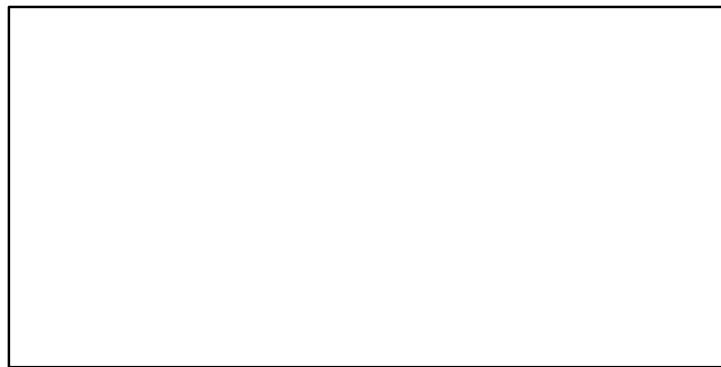
F*



ER*



Recruits*

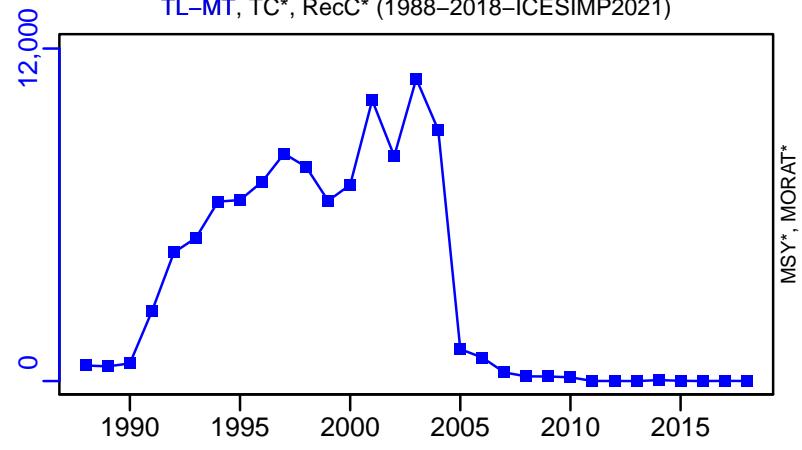


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

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

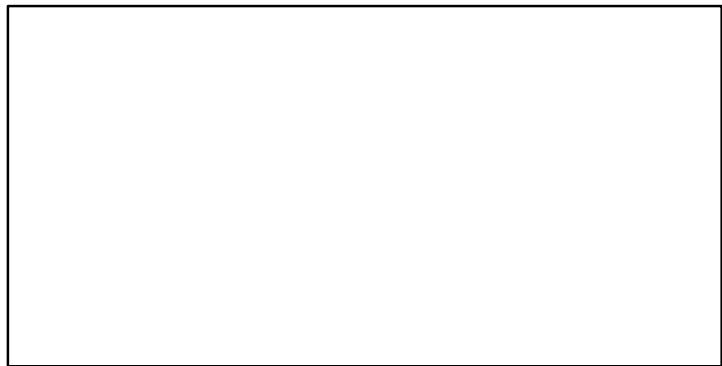
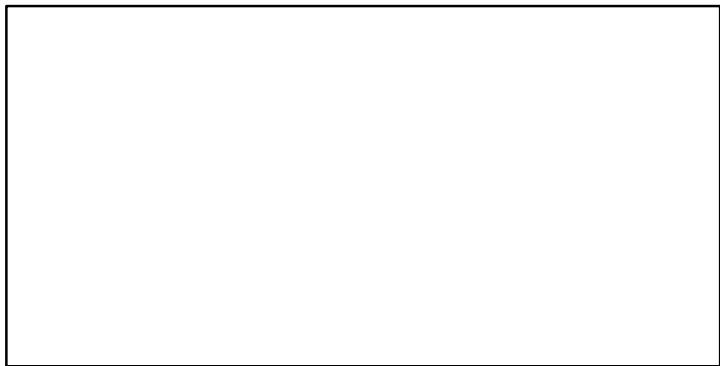
TAC*, Cpair*, Cadv*



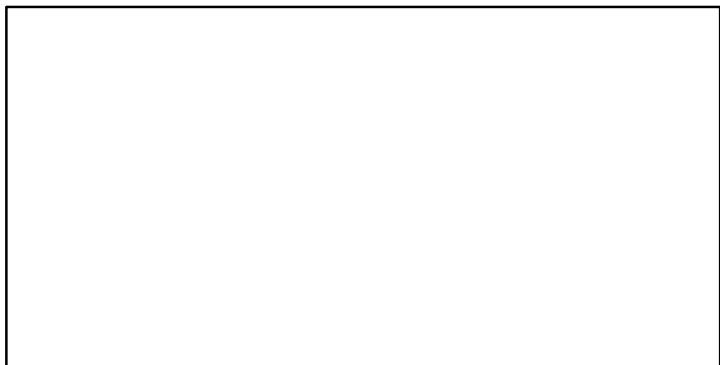
survB*



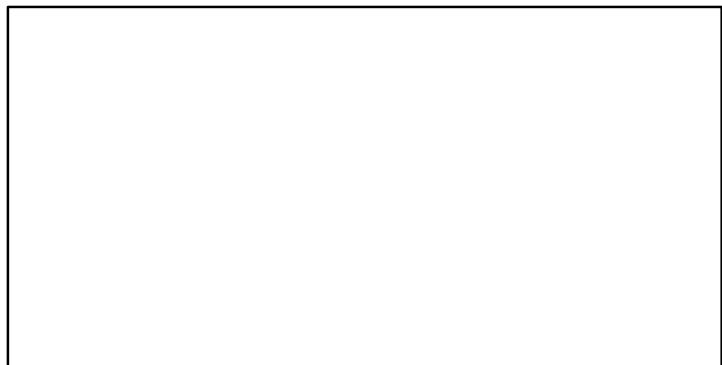
CPUE*



EFFORT*



CdivMSY*



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

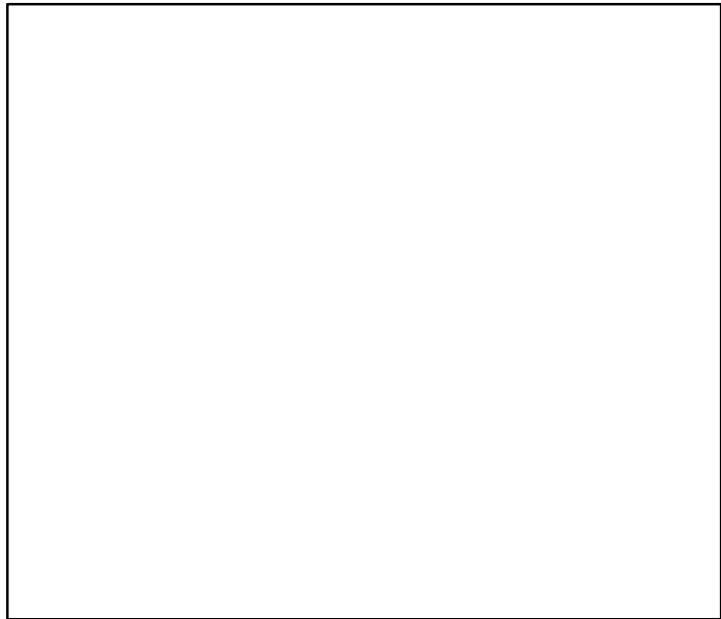
Ling Northeast Atlantic [LINGNEATL]

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

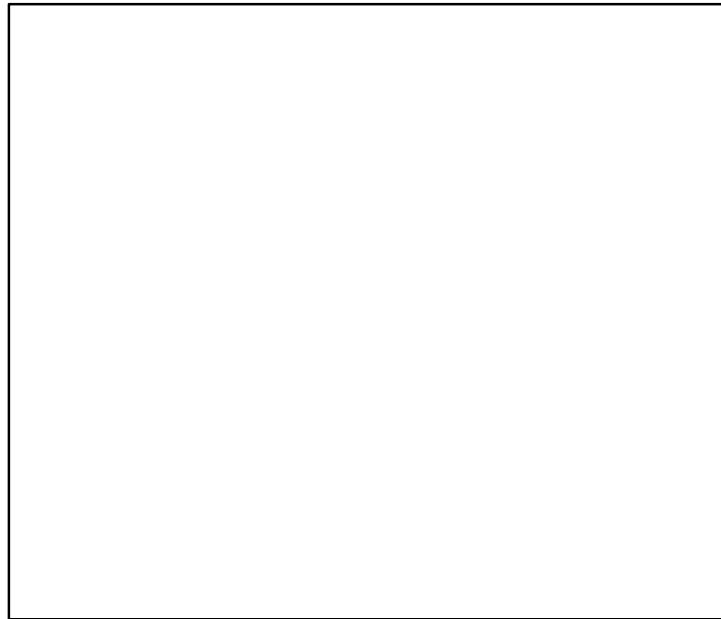
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	144	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	15,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

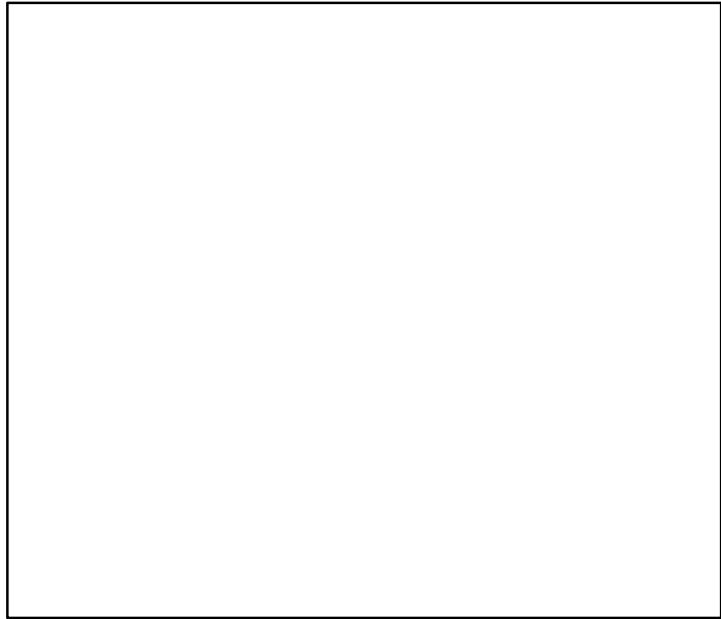
Kobe MSY*



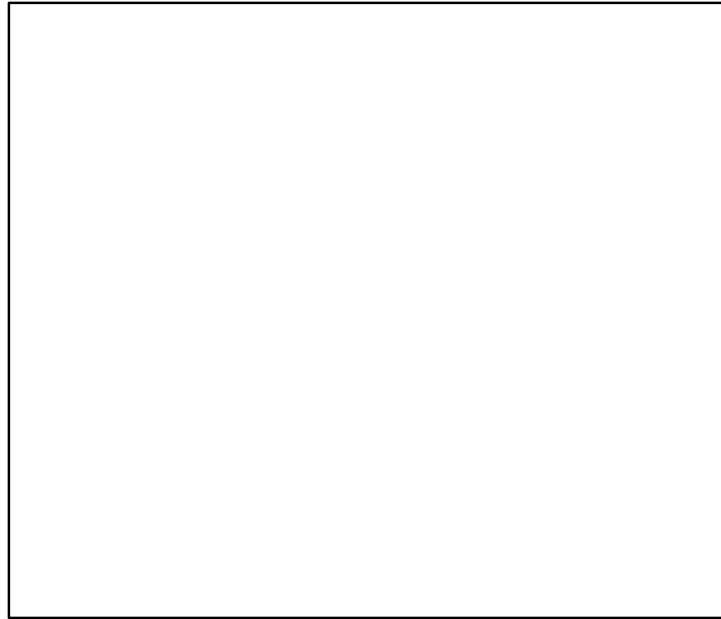
Kobe MGT*



Spawner Recruit*



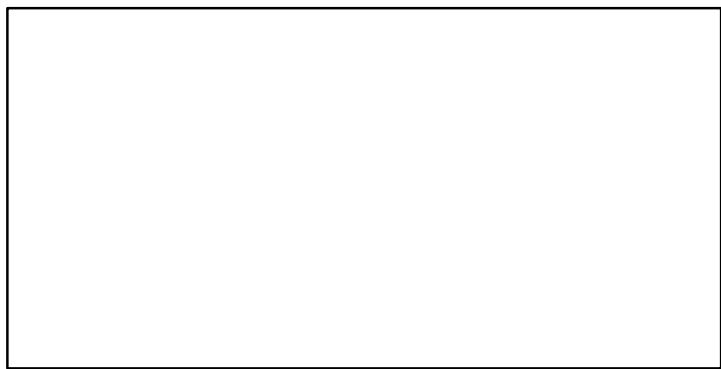
Production*



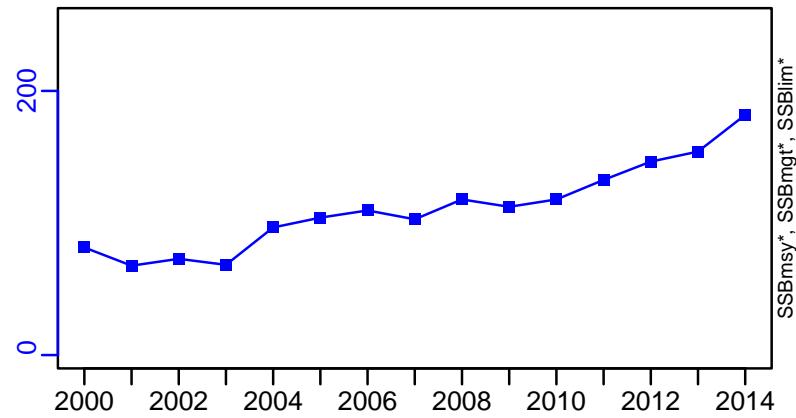
◆ Start Year ♦ End Year * No Data

Ling Northeast Atlantic [LINGNEATL]

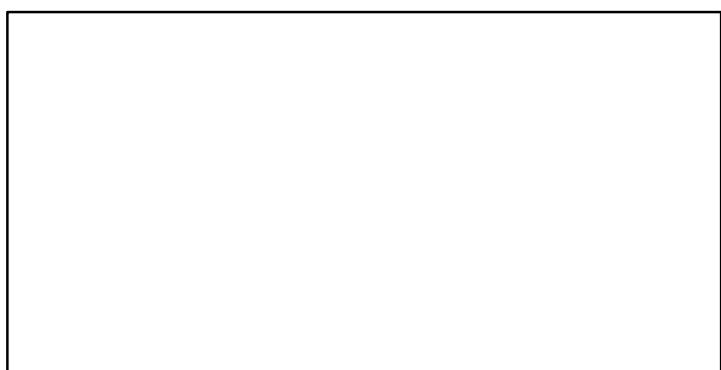
TB*



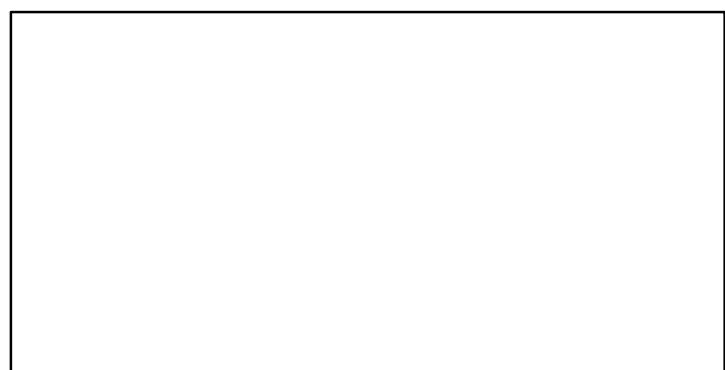
SSB-index (1988–2014–ICESIMP2018)



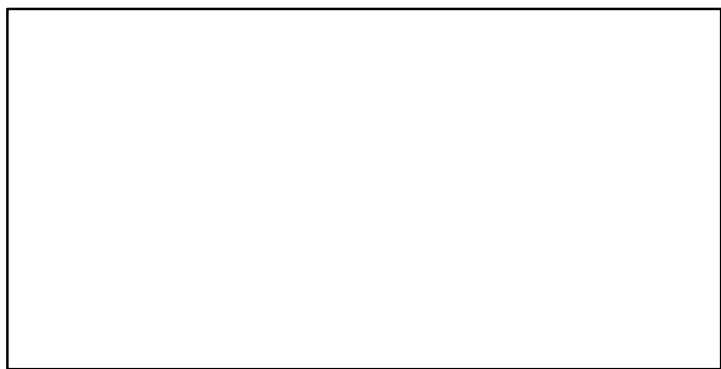
TN *



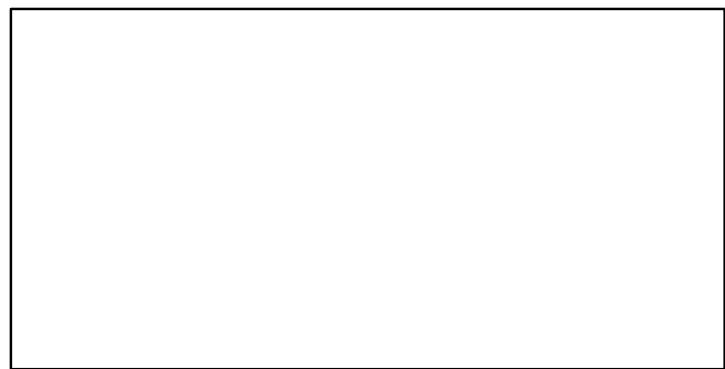
F*



ER*



Recruits*

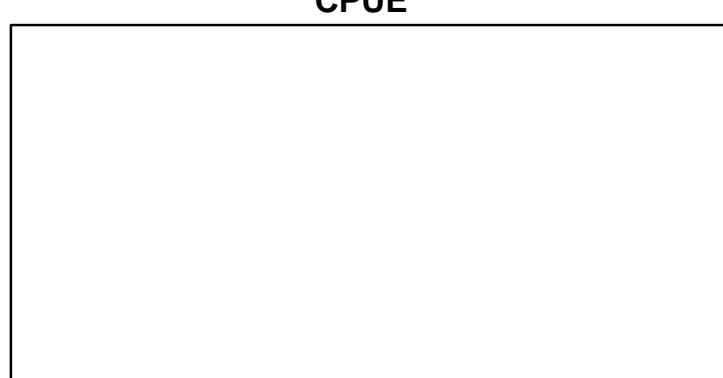
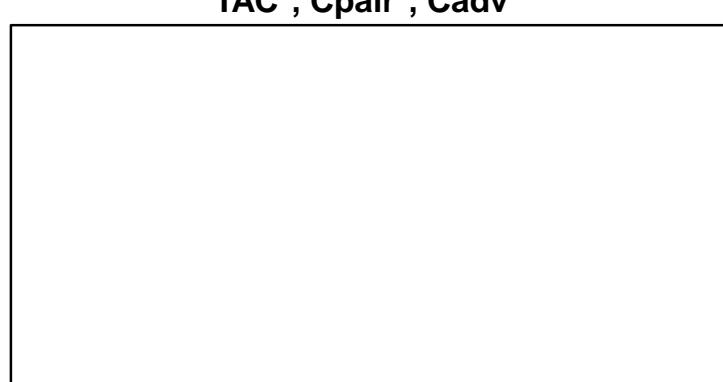
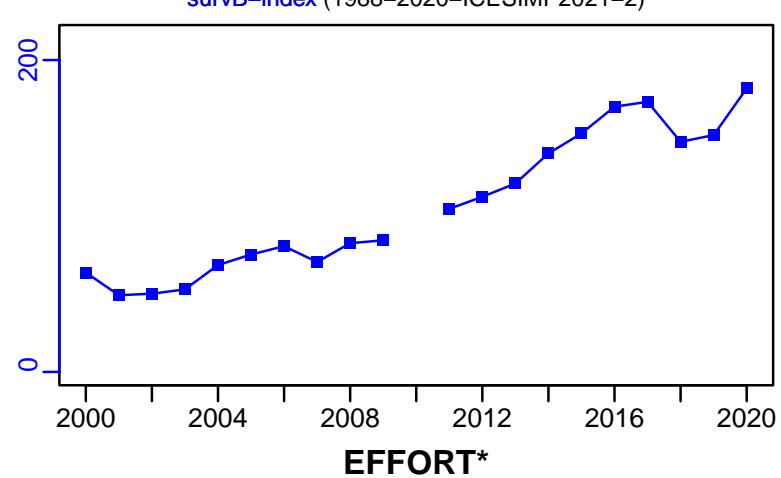
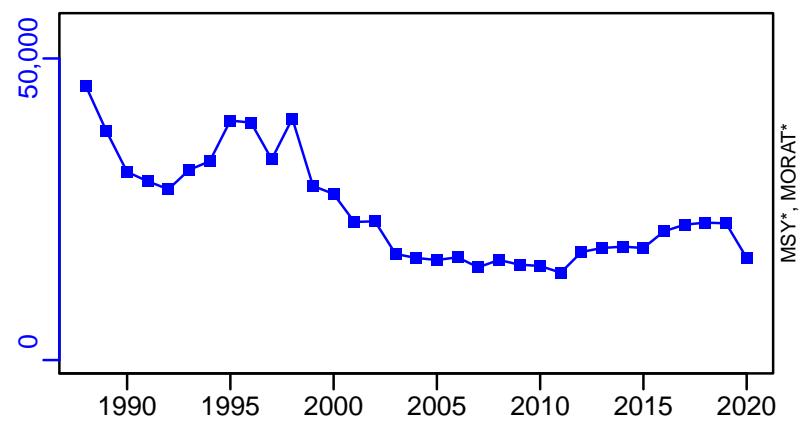


- | | | |
|---|--|---|
| ■ Listed time series
— MSY-based BRP | — Target BRP
— Lim BRP | — Rec-Est
* No Data |
|---|--|---|

Ling Northeast Atlantic [LINGNEATL]

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

TAC*, Cpair*, Cadv*



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

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*

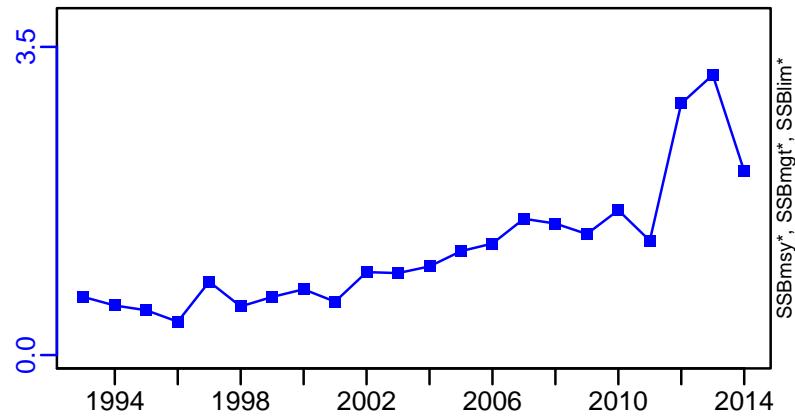
◆ Start Year ♦ End Year * No Data

Lesser spotted dogfish ICES 3a–4–7d [LSDOGIIa–IV–VIId]

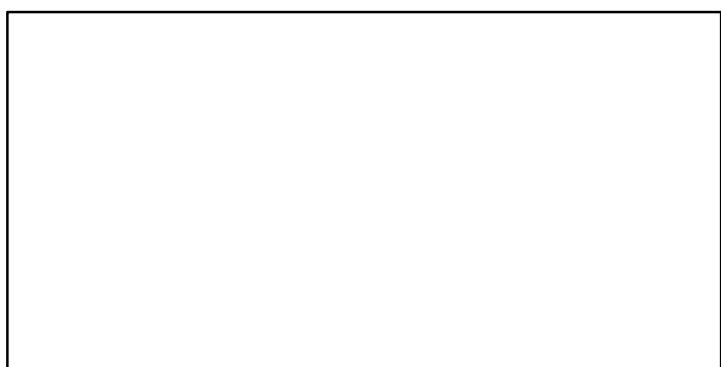
TB*



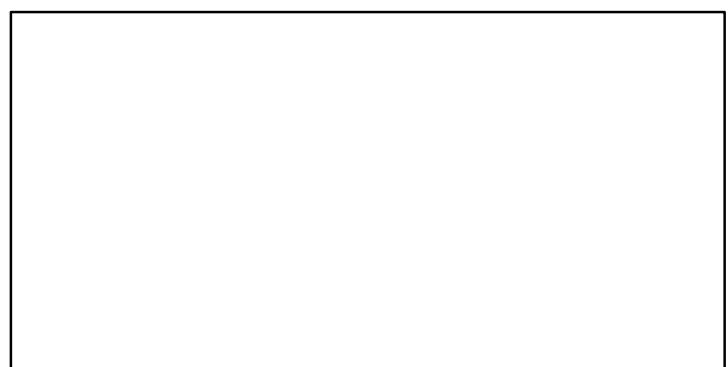
SSB-index (1993–2014–ICESIMP2018)



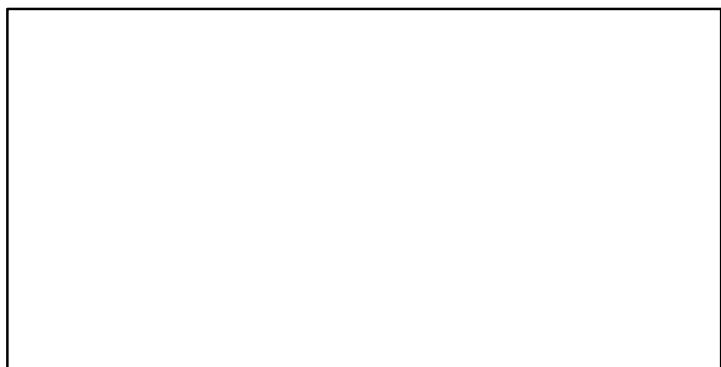
TN *



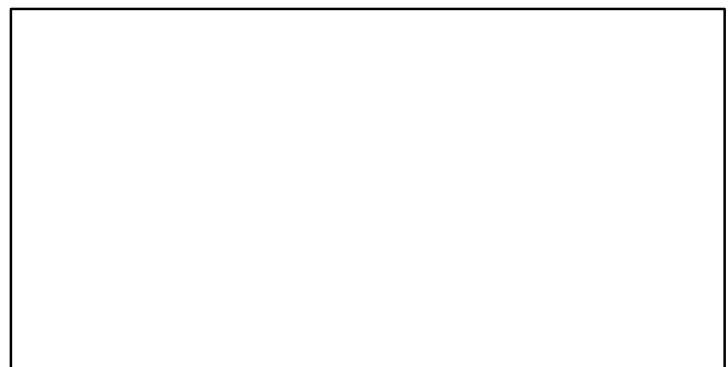
F*



ER*



Recruits*

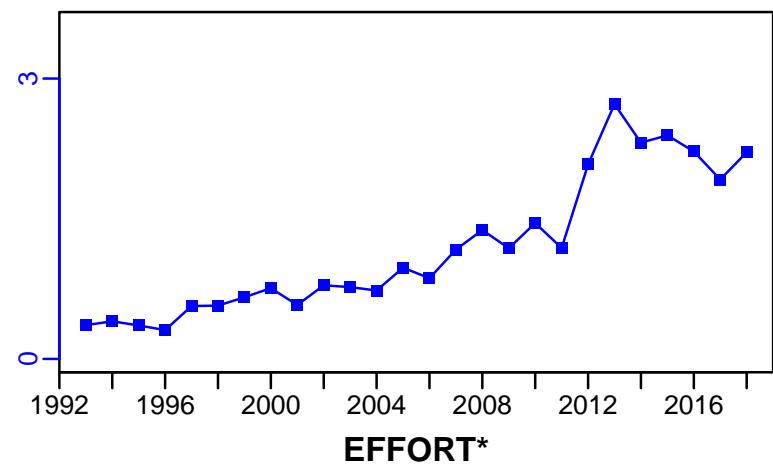
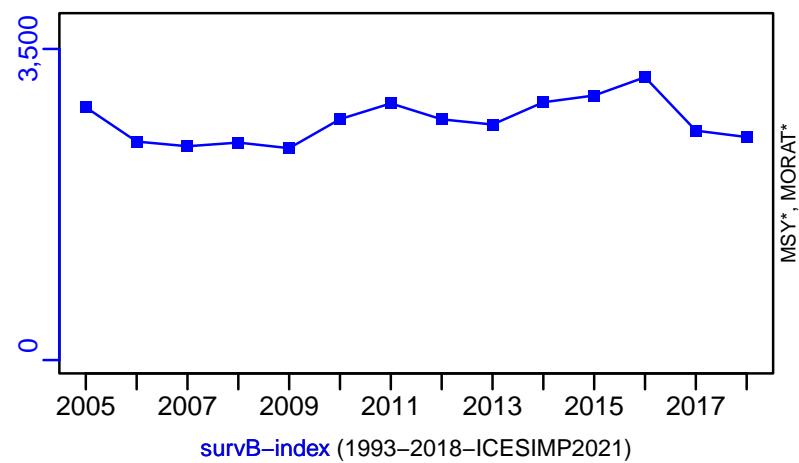


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

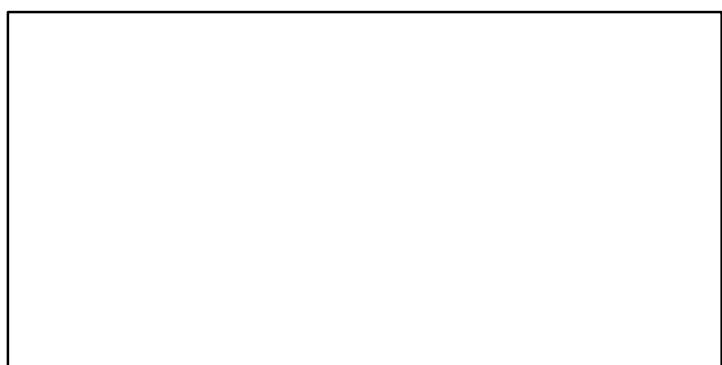
Lesser spotted dogfish ICES 3a–4–7d [LSDOGIIa–IV–VIId]

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

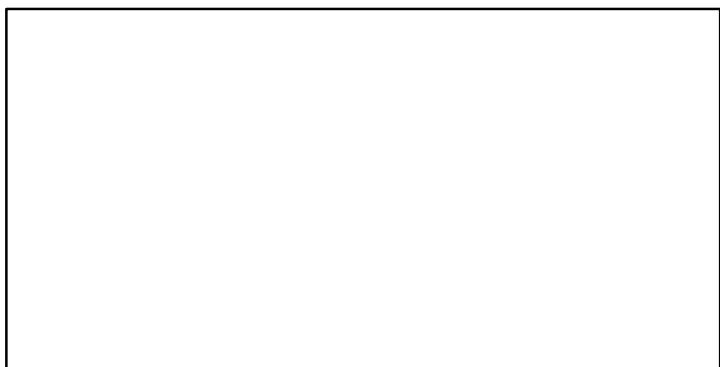
TAC*, Cpair*, Cadv*



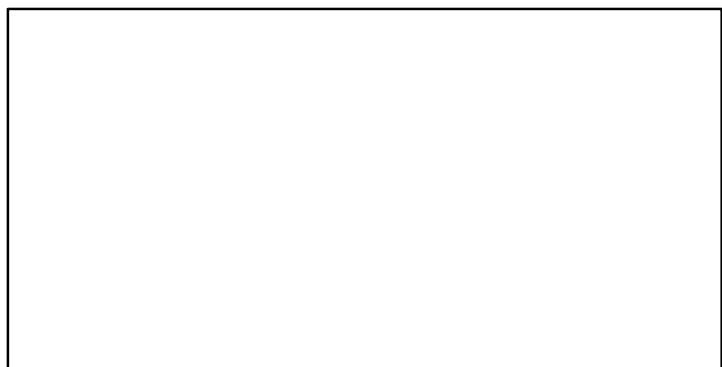
CPUE*



EFFORT*



CdivMSY*



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

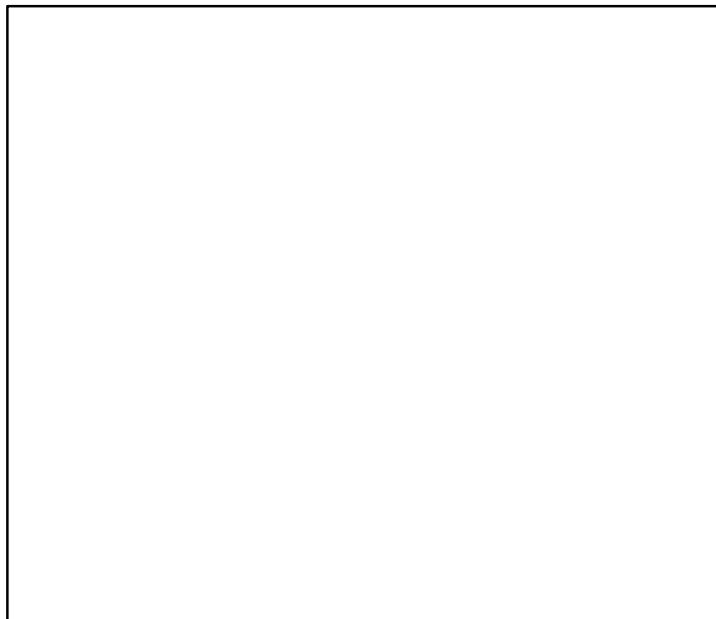
Lesser spotted dogfish ICES 8abd [LSDOGVIIab]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVIIab-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

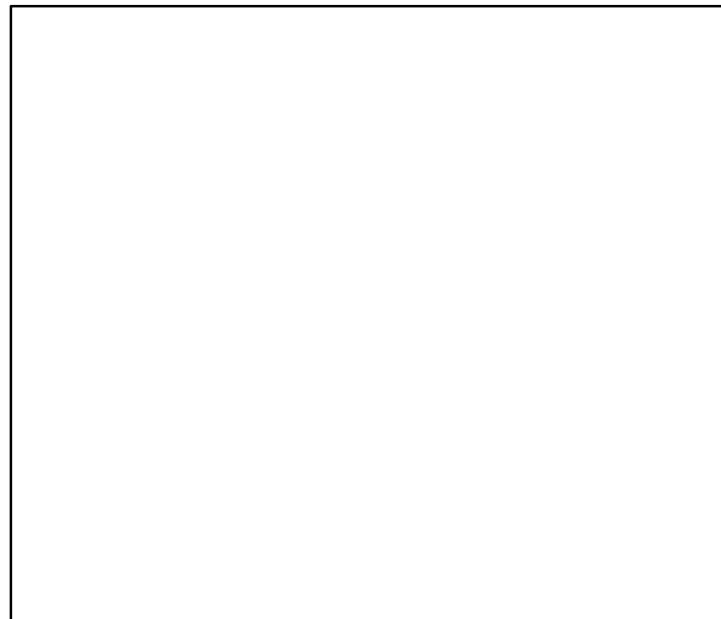
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

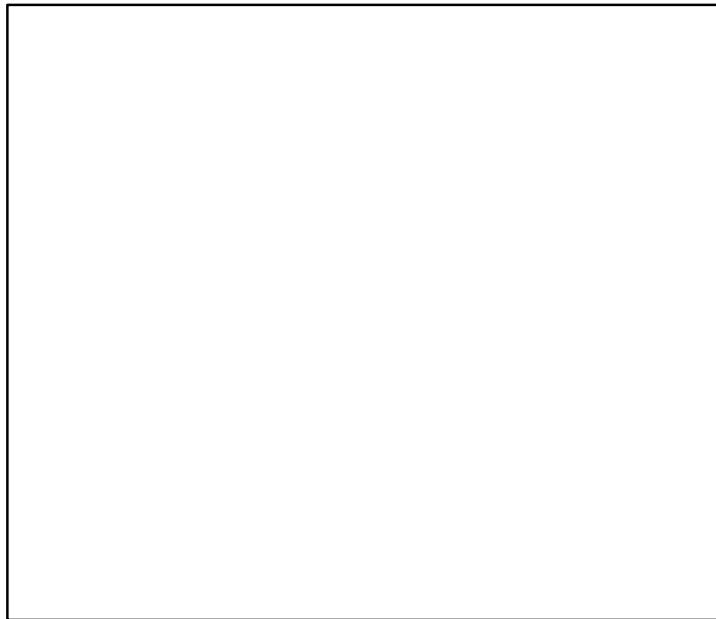
Kobe MSY*



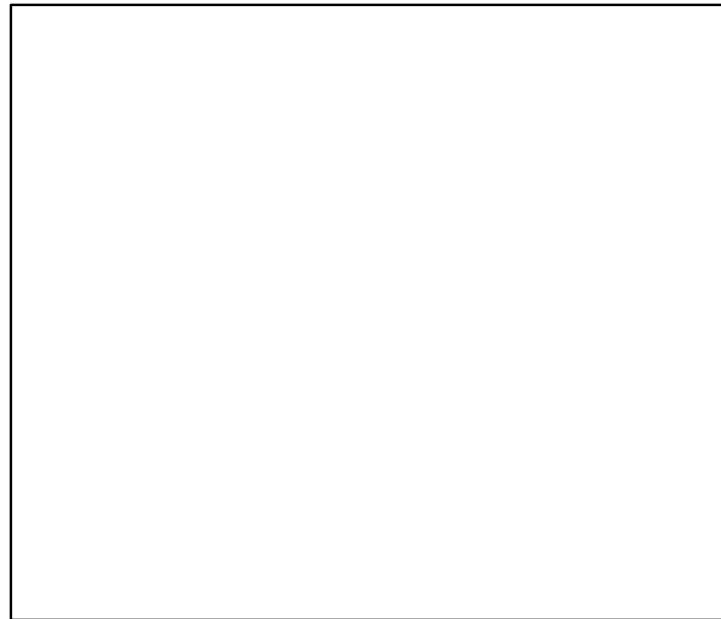
Kobe MGT*



Spawner Recruit*



Production*



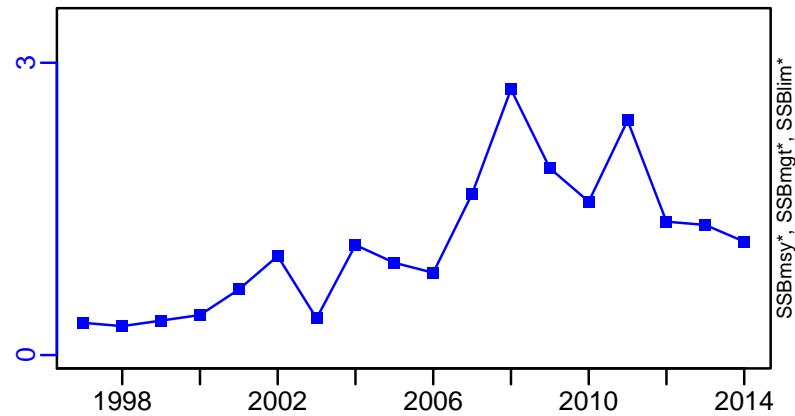
◆ Start Year ♦ End Year * No Data

Lesser spotted dogfish ICES 8abd [LSDOGVIIlabd]

TB*

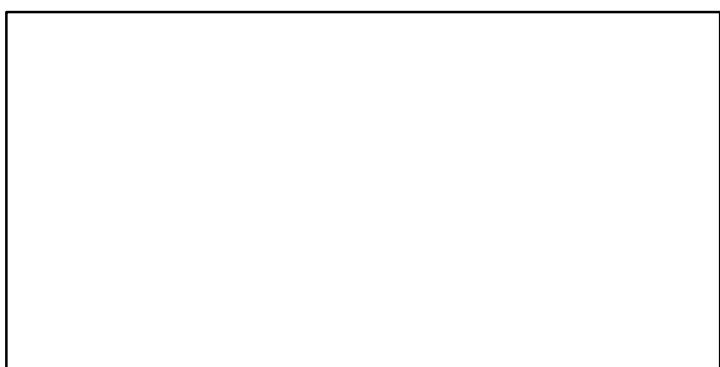


SSB-index (1997–2014–ICESIMP2018)

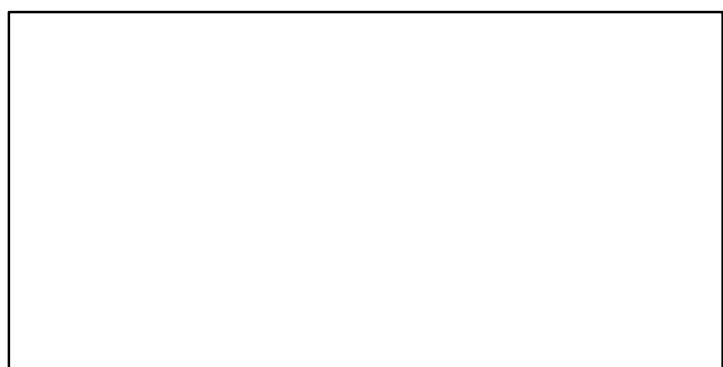


SSB_msy*, SSB_{mgt}*, SSB_{lim}*

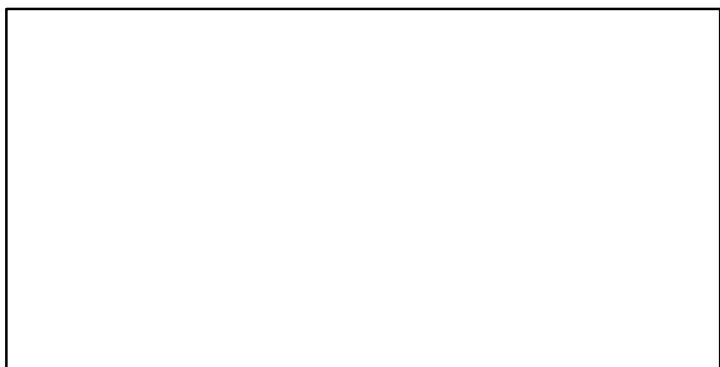
TN *



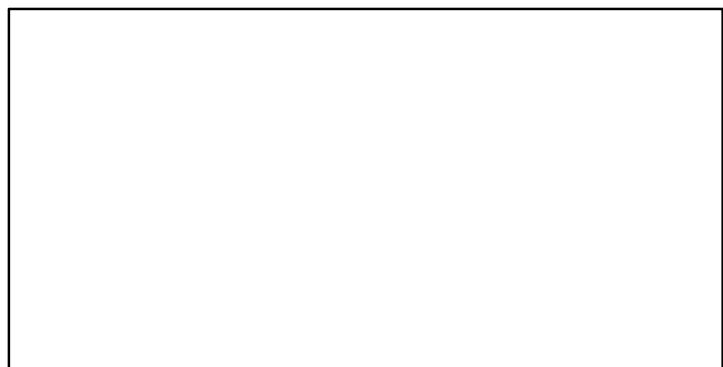
F*



ER*



Recruits*

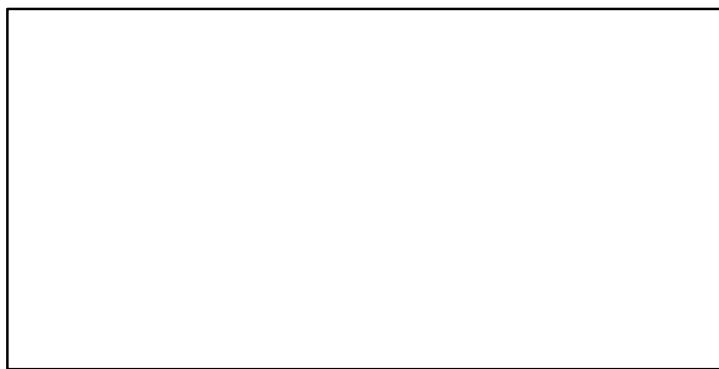
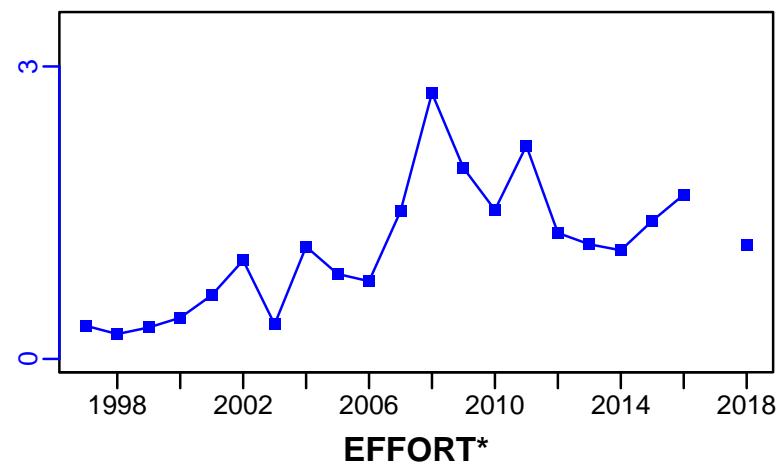
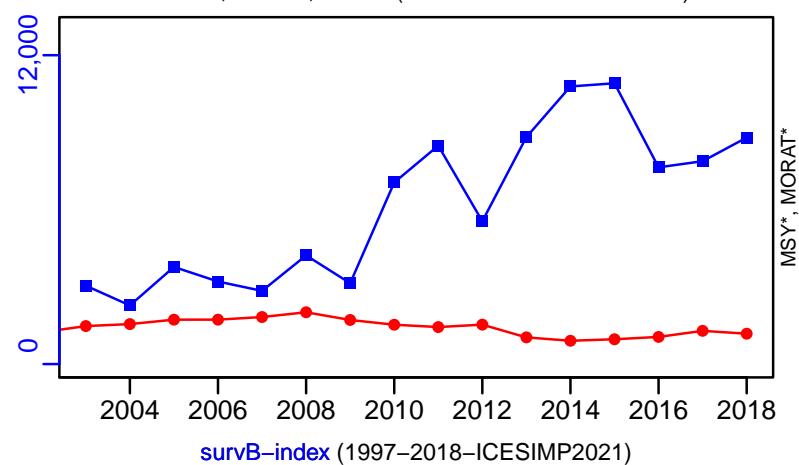


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

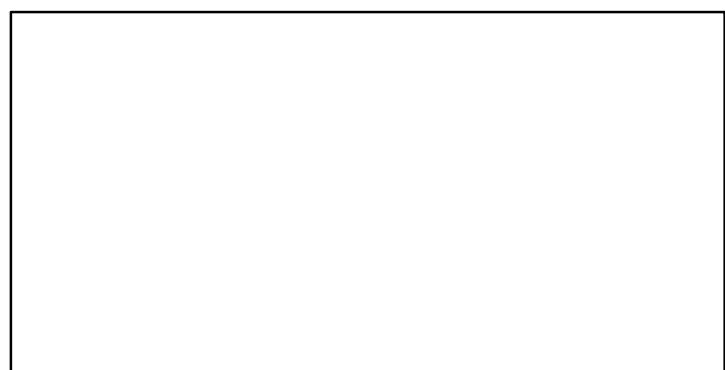
Lesser spotted dogfish ICES 8abd [LSDOGVIIlabd]

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

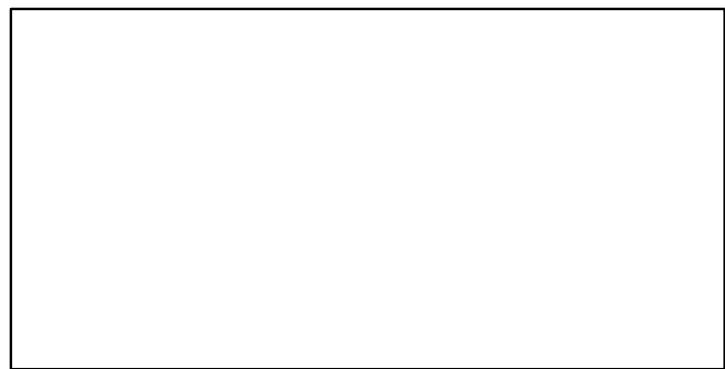
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

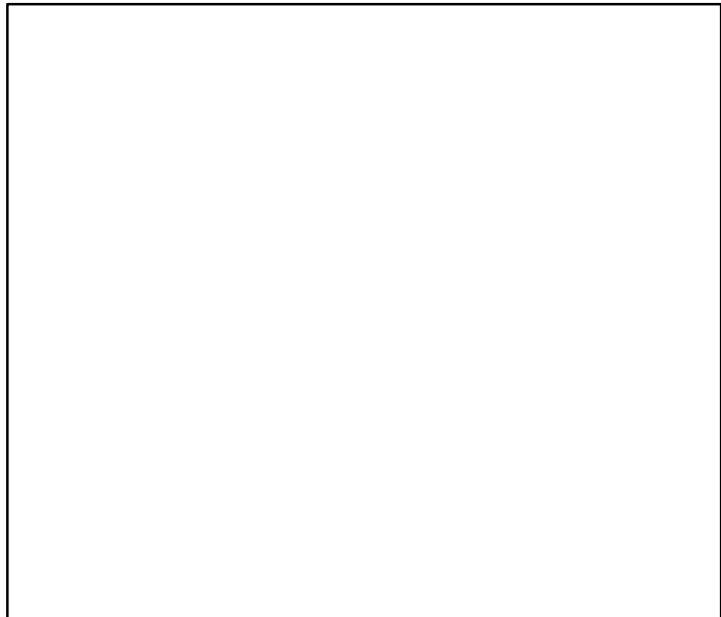
Lesser spotted dogfish ICES 8c-9a [LSDOGVIIIC-IXa]

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

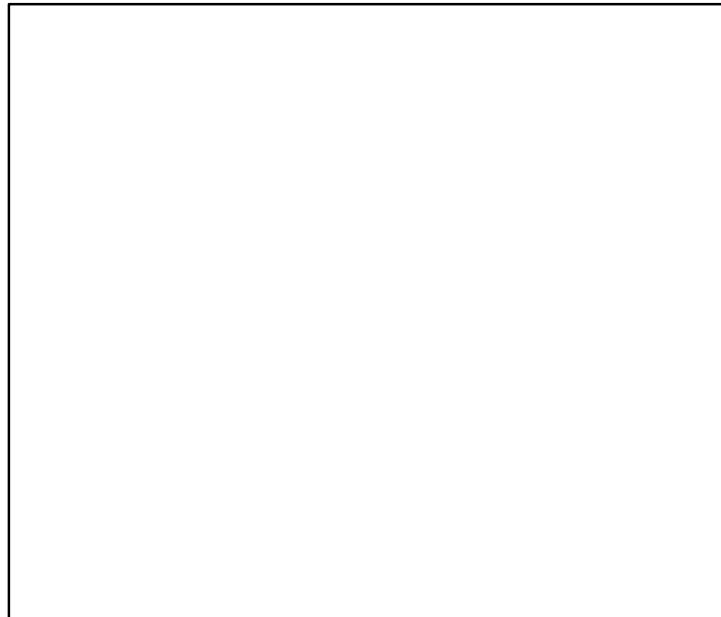
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



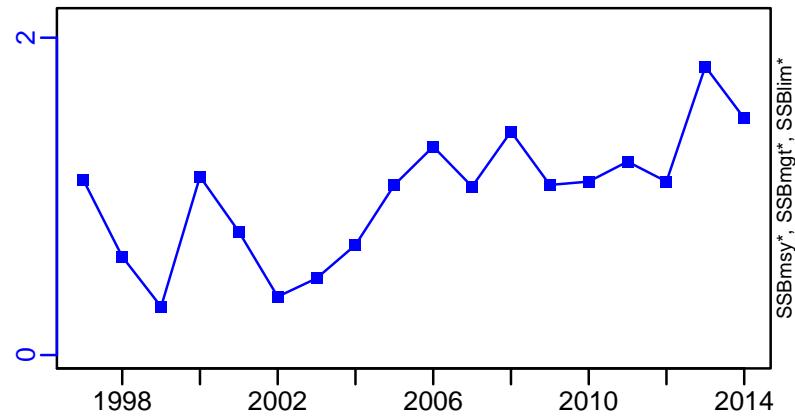
◆ Start Year ♦ End Year * No Data

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

TB*



SSB-index (1997–2014–ICESIMP2018)



TN *



F*



ER*



Recruits*

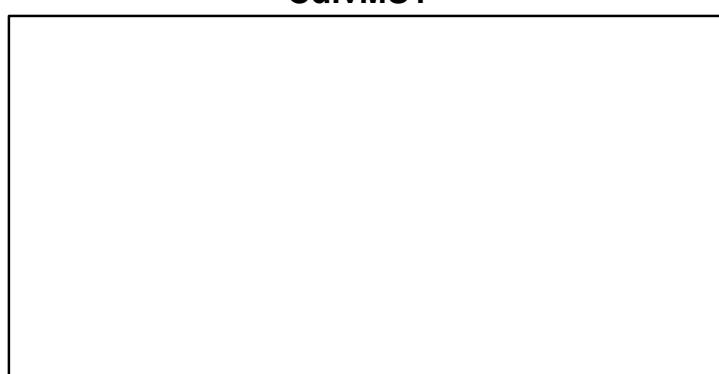
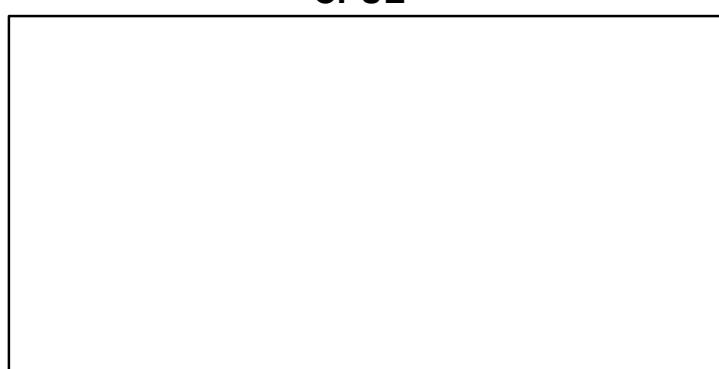
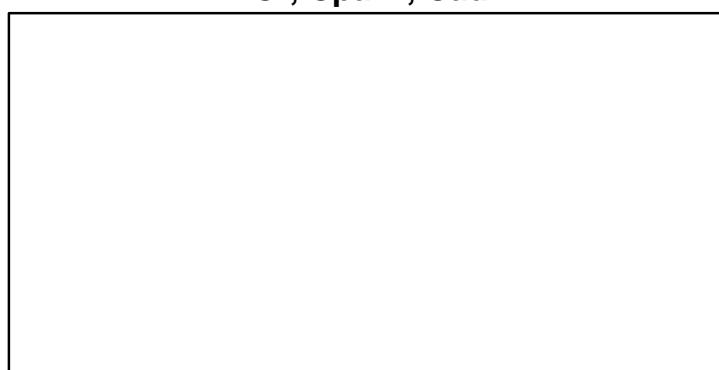
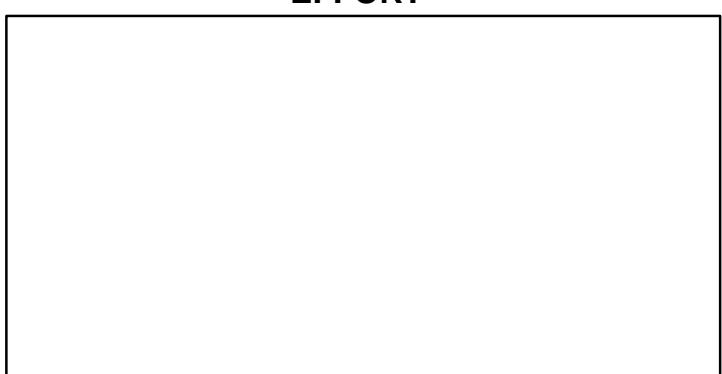
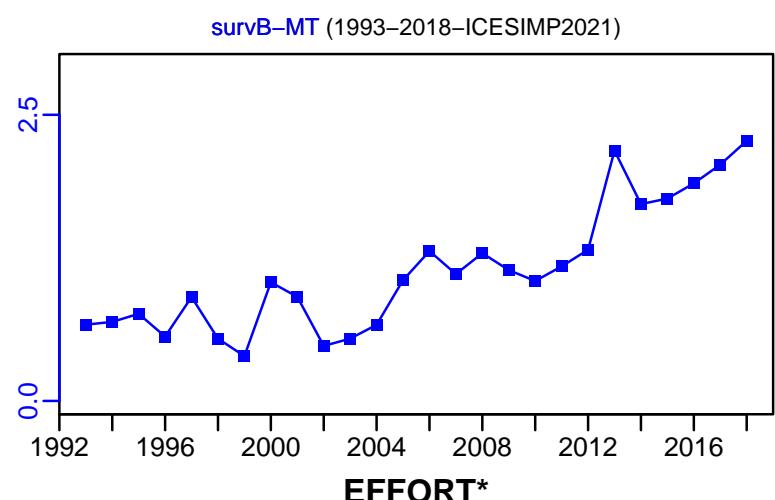
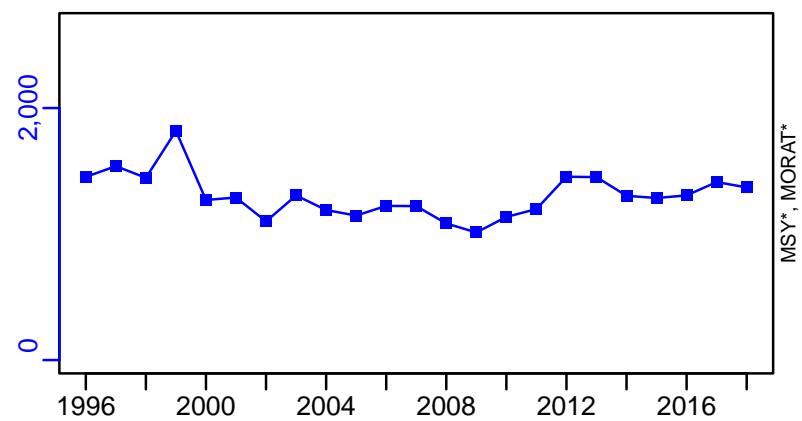


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | ··· Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



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

Lesser spotted dogfish ICES 6-7abcefghij [LSDOGVI-VIIabcefghij]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVI-VIIabcefghij-2005-2018-ICESIMP2021
Area	ICES 6-7abcefghij
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*

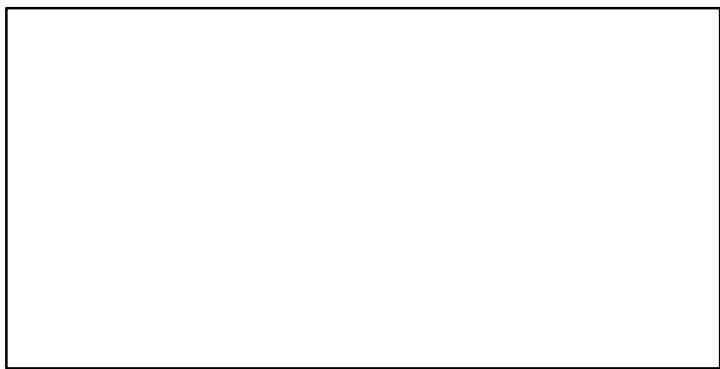
Spawner Recruit*

Production*

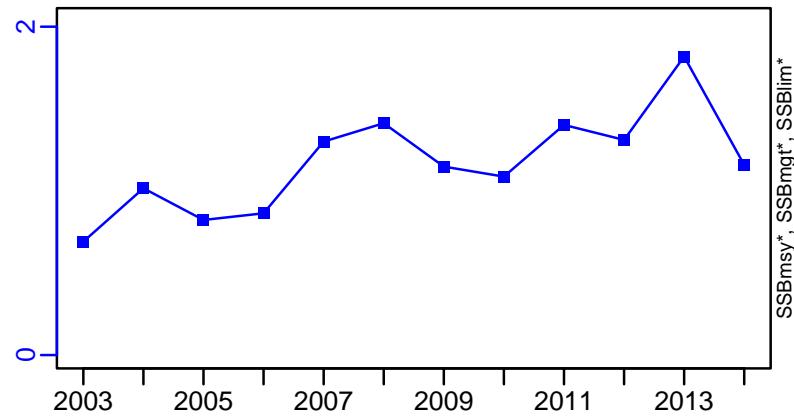
◆ Start Year ♦ End Year * No Data

Lesser spotted dogfish ICES 6–7abcefghij [LSDOGVI–VIIabcefghij]

TB*



SSB-index (2003–2014–ICESIMP2018)



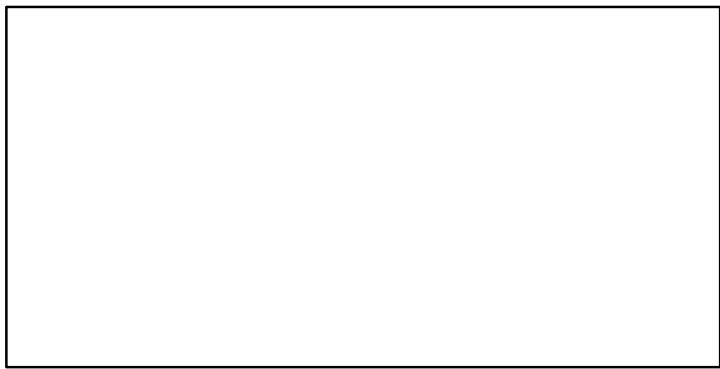
TN *



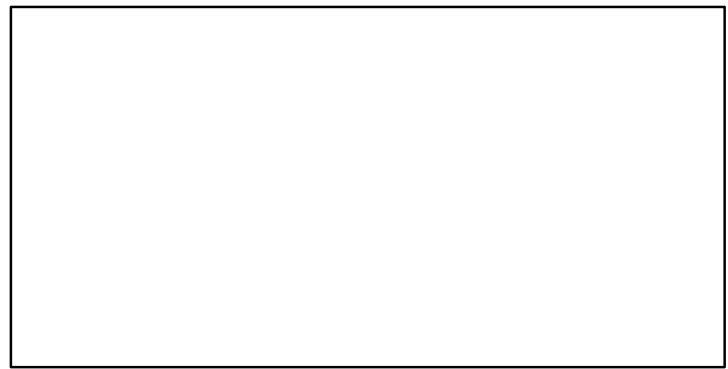
F*



ER*



Recruits*

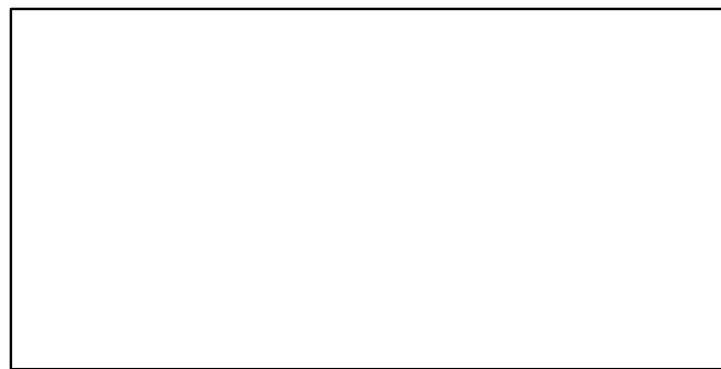
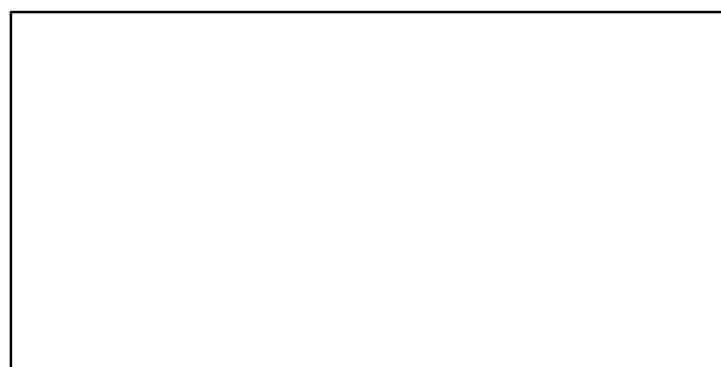
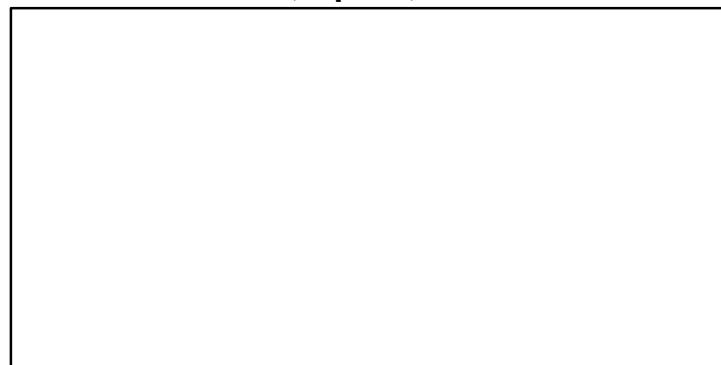
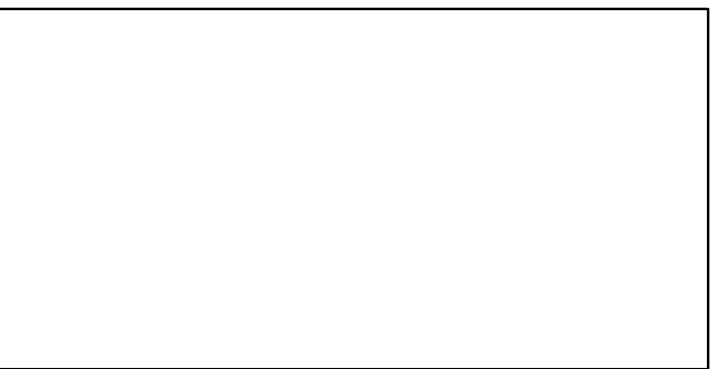
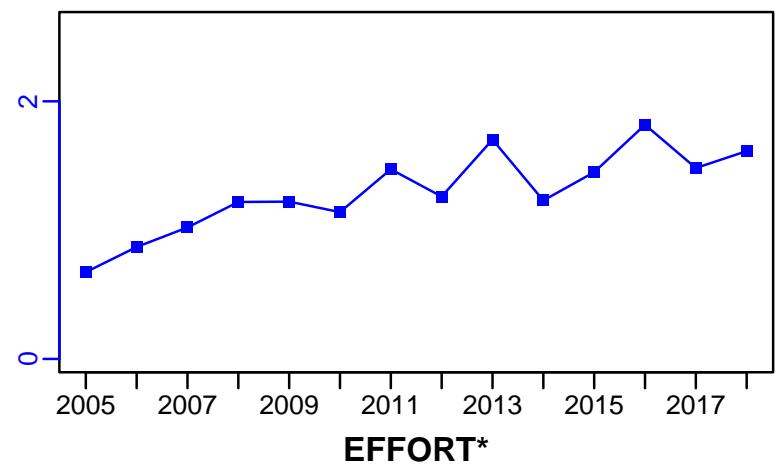
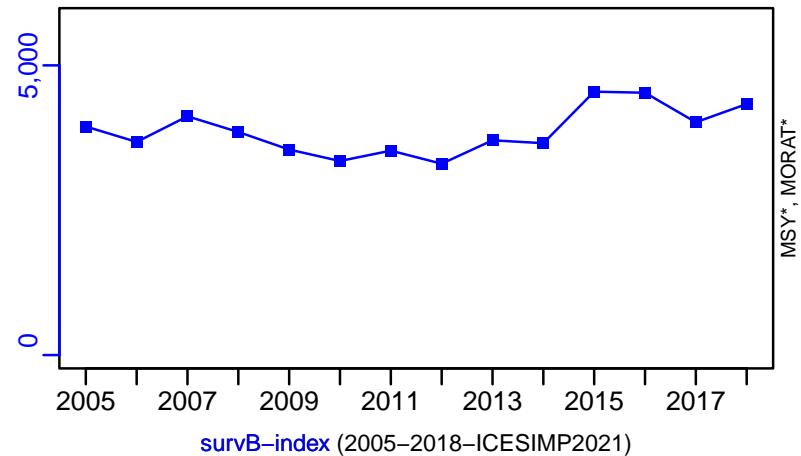


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Lesser spotted dogfish ICES 6–7abcefghij [LSDOGVI–VIIabcefghij]

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

TAC*, Cpair*, Cadv*



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

Lemon sole ICES 3a-4-7d [LSOLEIIIA-IV-VIId]

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

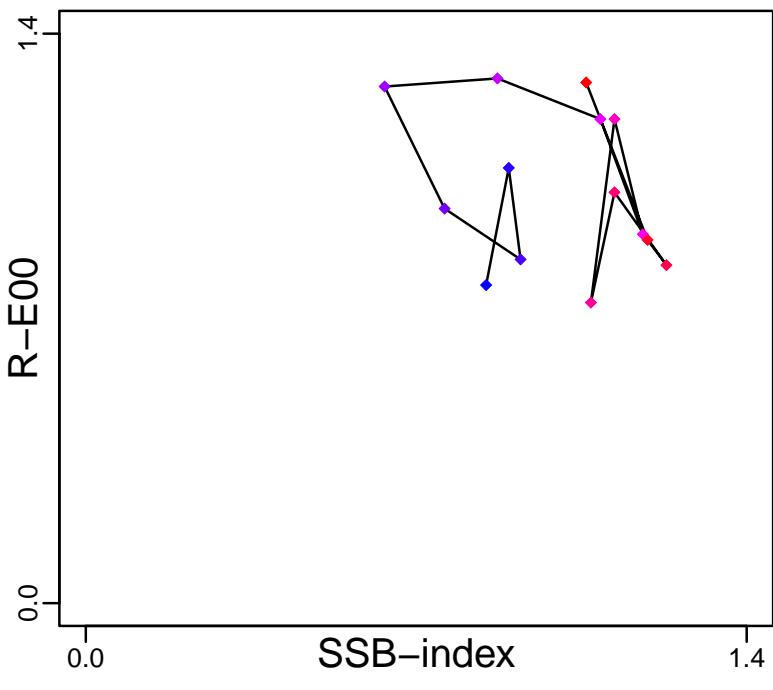
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kobe MSY*

Kobe MGT*

Spawner Recruit (1968–2019–ICESIMP2021–2)

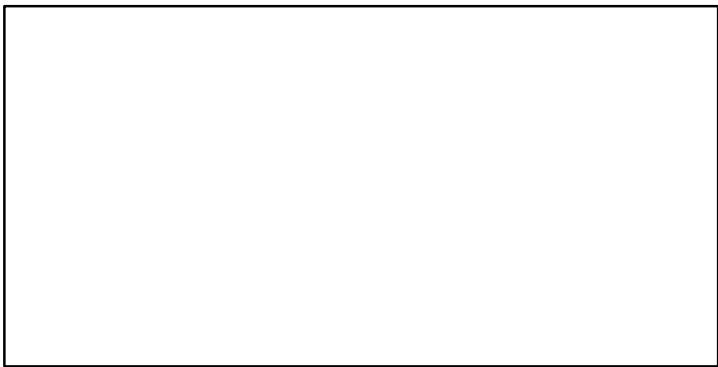


Production*

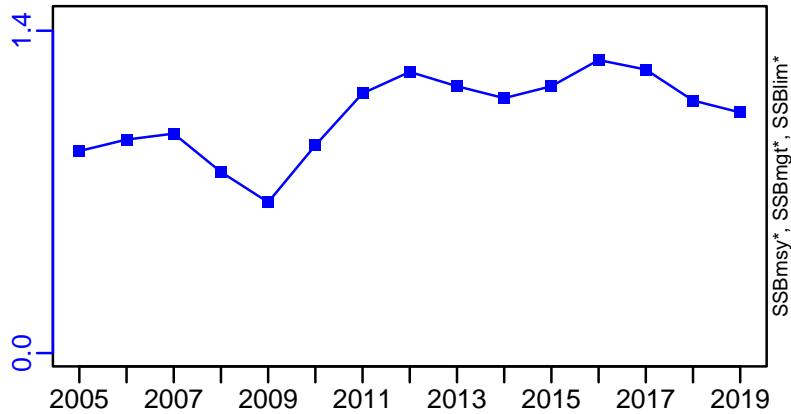


Lemon sole ICES 3a–4–7d [LSOLEIIIa–IV–VIIId]

TB*



SSB-index (1968–2019–ICESIMP2021–2)



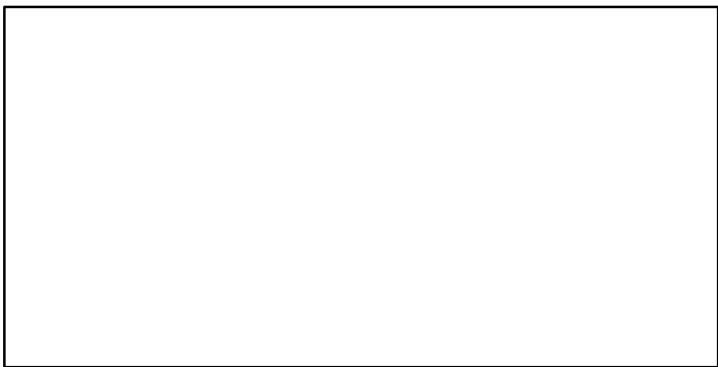
TN *



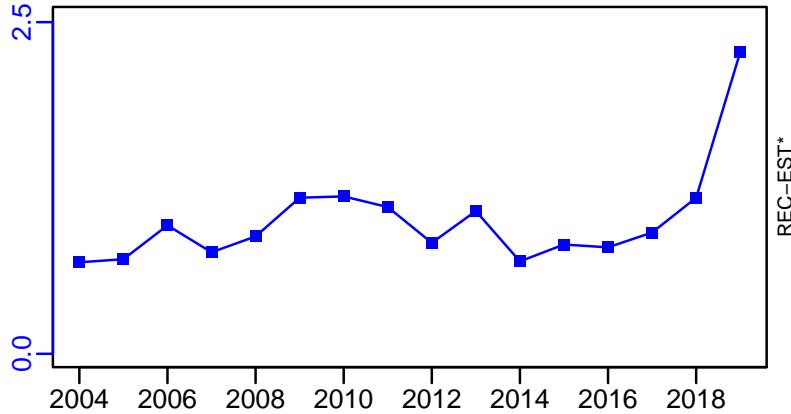
F*



ER*



R-index (1968–2020–ICESIMP2021–2)

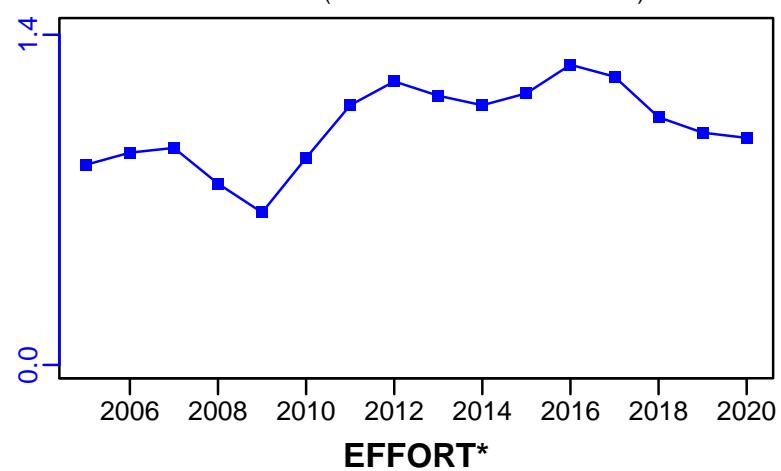
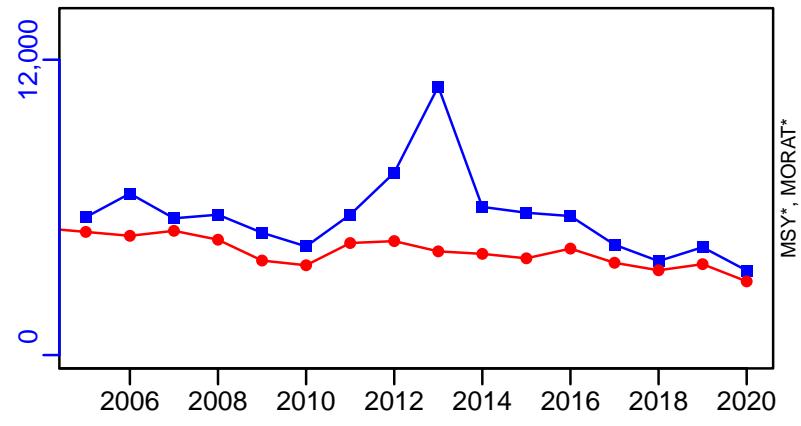


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

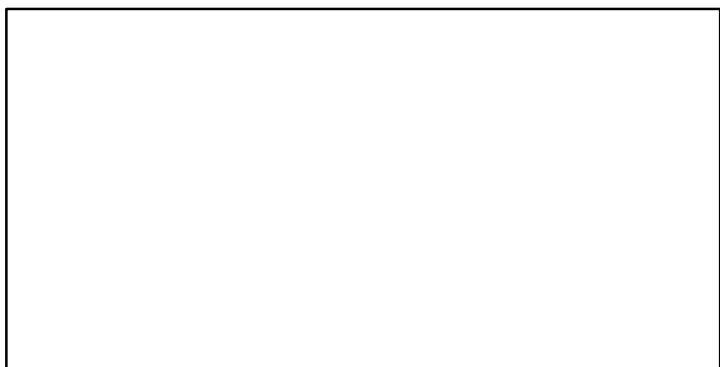
Lemon sole ICES 3a–4–7d [LSOLEIIIa–IV–VIIId]

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

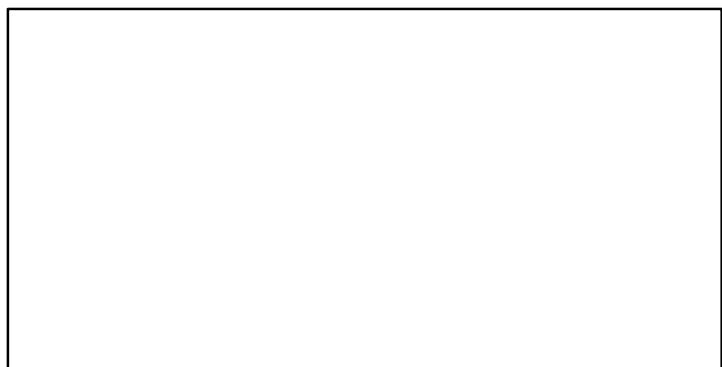
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



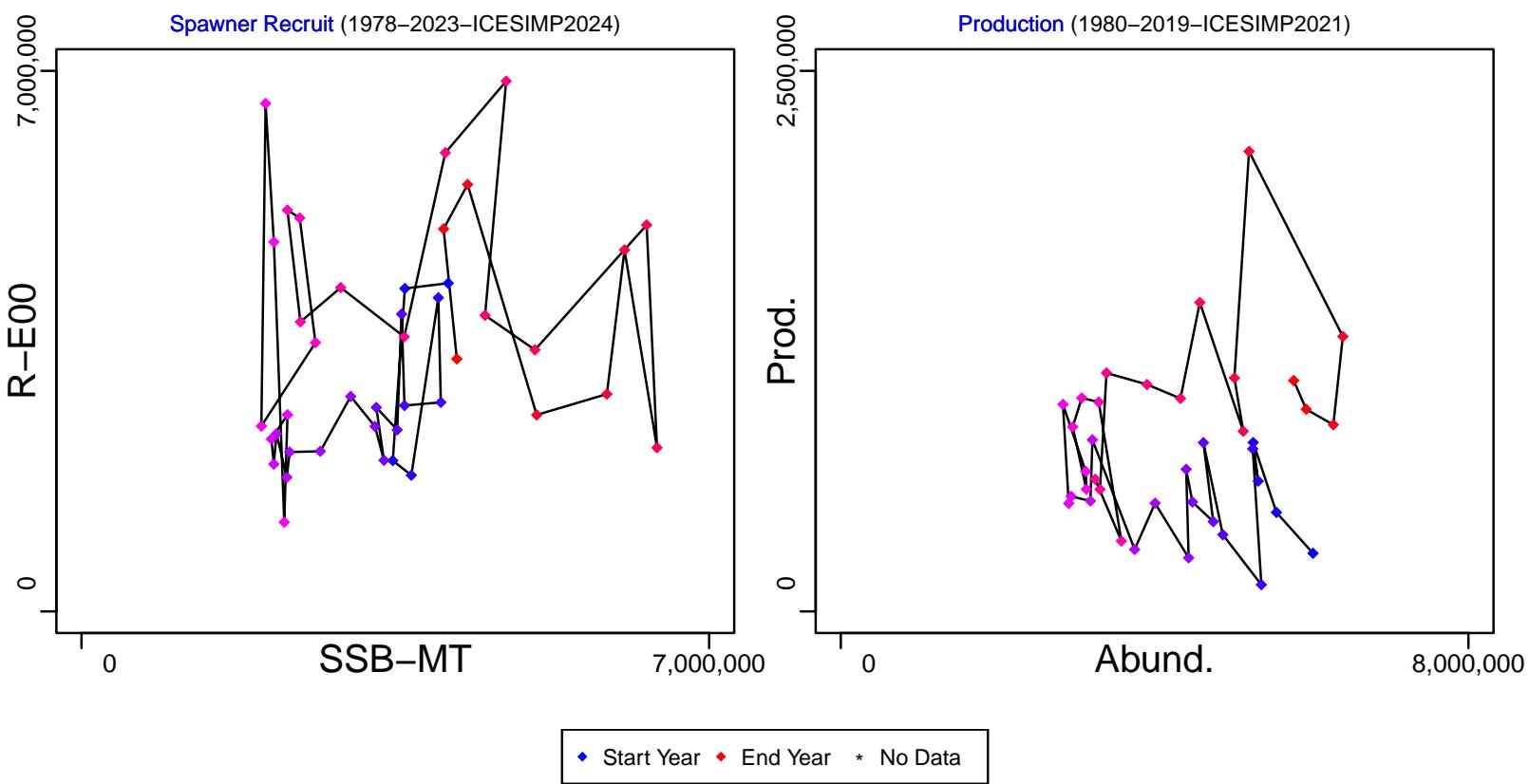
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Mackerel ICES Northeast Atlantic [MACKNEICES]

Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	WGWWIDE-MACKNEICES-1978-2023-ICESIMP2024
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, 2023, 2013, 2014, 2015, 2016, 2017, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	2×10^6
Flim	Flim-1/yr	2023	0.46
ERlim	-	-	-

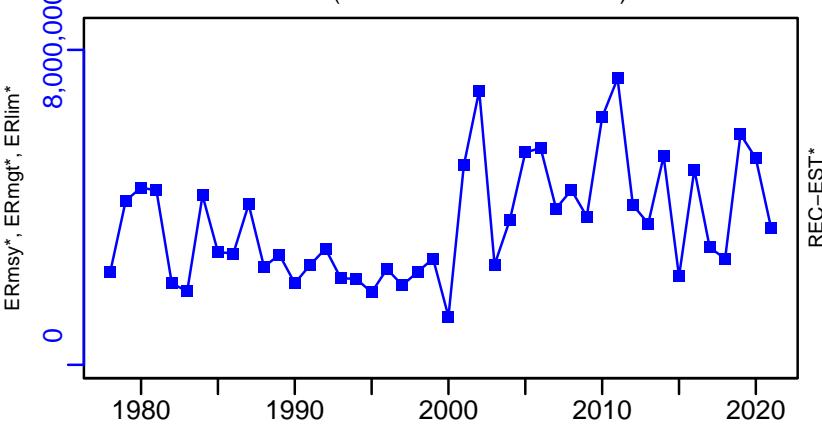
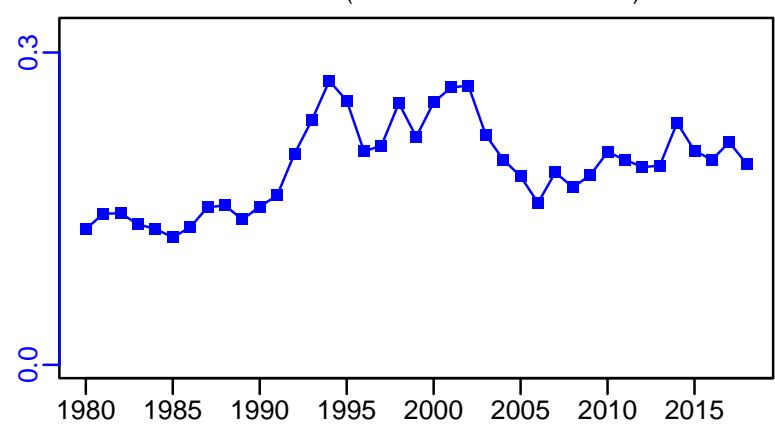
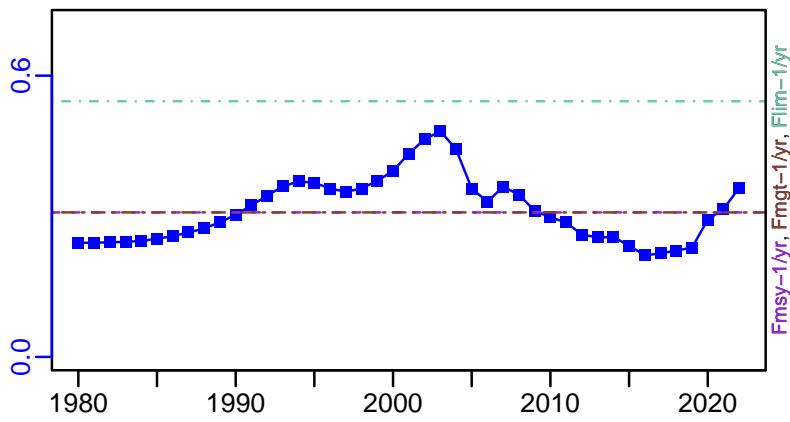
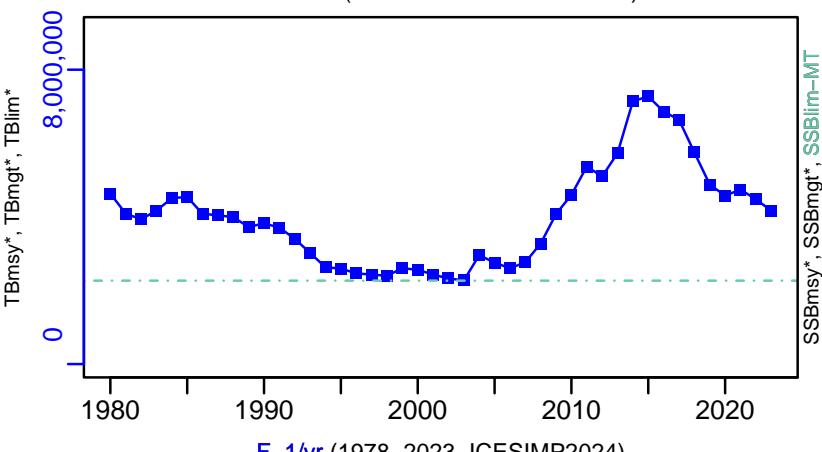
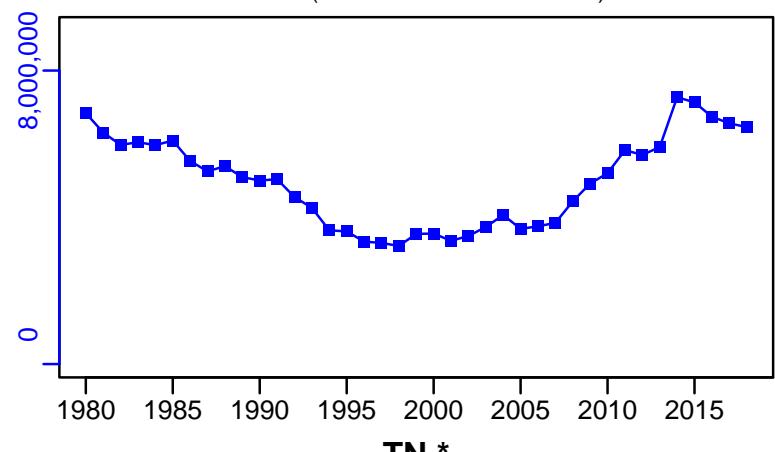
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	5,684,879	-	-	
SSB	SSB-MT	2023	3,681,064	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	3,269,823	-	2	
F	F-1/yr	2023	0.304	-	4 to 8	
ER	ER-calc-ratio	2019	0.181	-	-	
TC	TC-MT	2023	1,046,720			
TL	TL-MT	2016	1,200,000			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	1.169			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.169			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

Mackerel ICES Northeast Atlantic [MACKNEICES]

TB-MT (1980–2019–ICESIMP2021)

SSB-MT (1978–2023–ICESIMP2024)

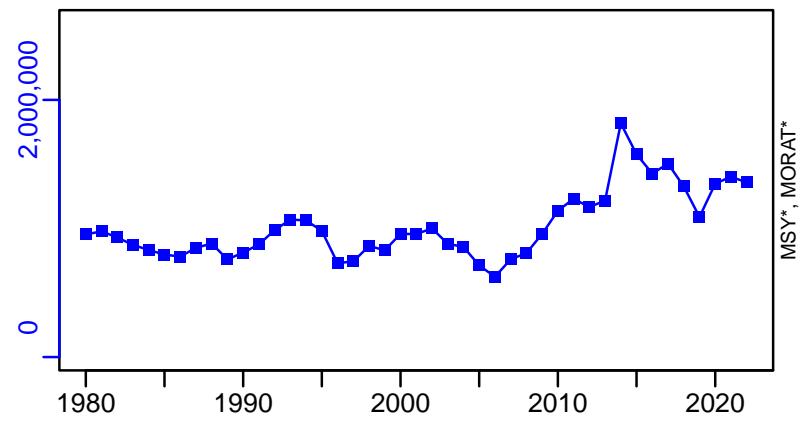


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Mackerel ICES Northeast Atlantic [MACKNEICES]

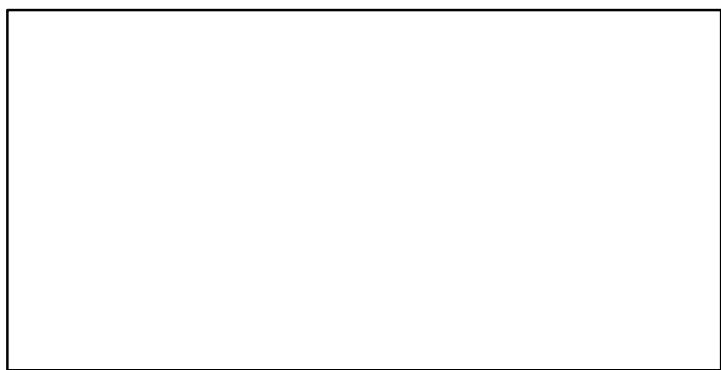
TC-MT, TL*, RecC* (1978–2023–ICESIMP2024)

TAC*, Cpair*, Cadv*

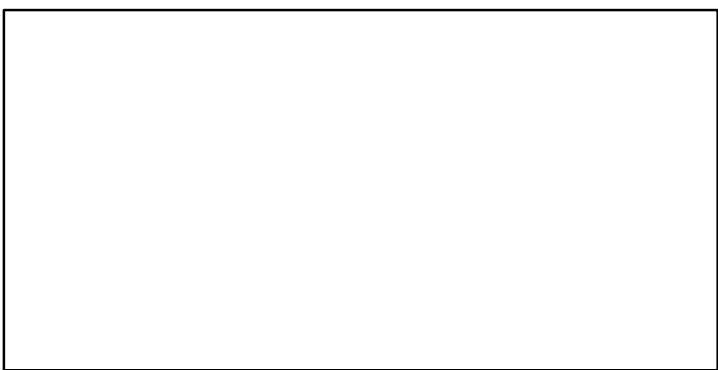


survB*

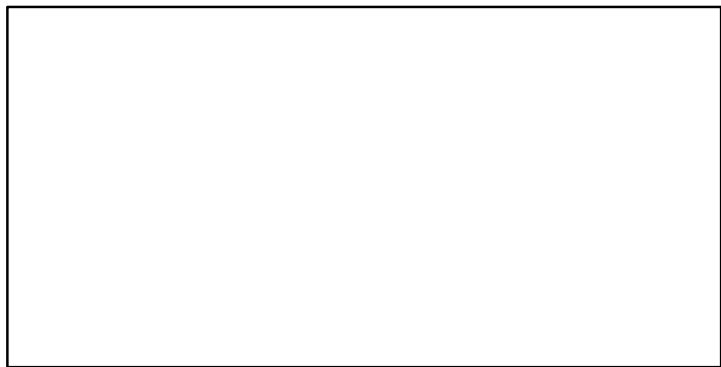
MSY*, MORAT*



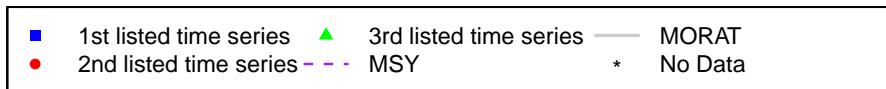
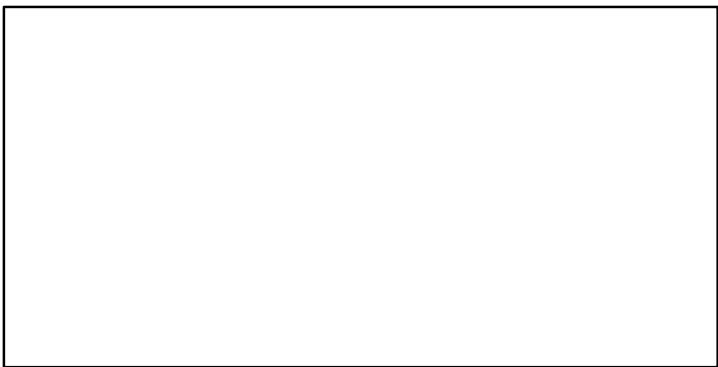
CPUE*



EFFORT*



CdivMSY*



Megrim ICES 8c-9a [MEG8c9a]

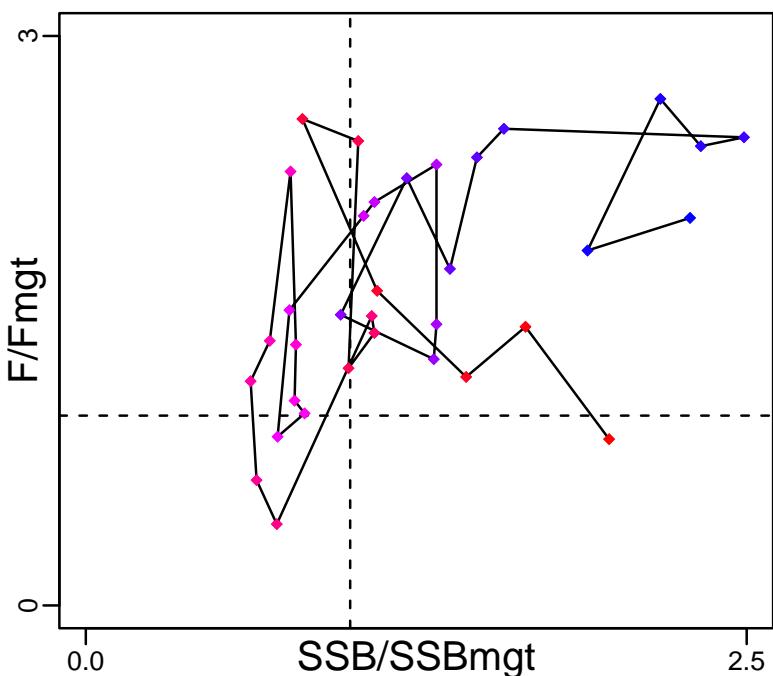
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEG8c9a-1986-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015,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

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

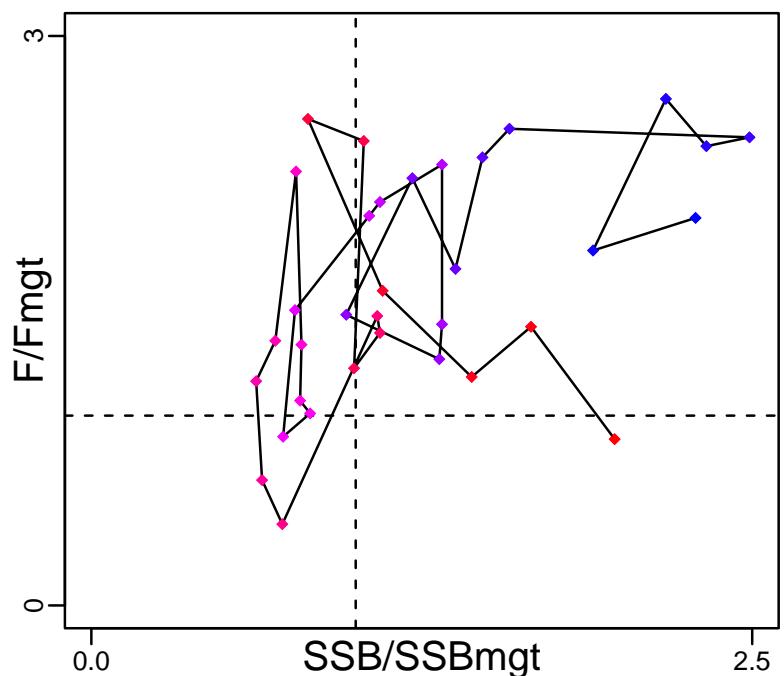
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	2290	-	-
SSB	SSB-MT	2021	2780	-	-
TN	-	-	-	-	-
R	R-E00	2021	3,630,000	-	1
F	F-1/yr	2021	0.116	-	-
ER	ER-calc-ratio	2019	0.154	-	-
TC	TC-MT	2020	289		
TL	TL-MT	2021	320		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021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

Megrim ICES 8c–9a [MEG8c9a]

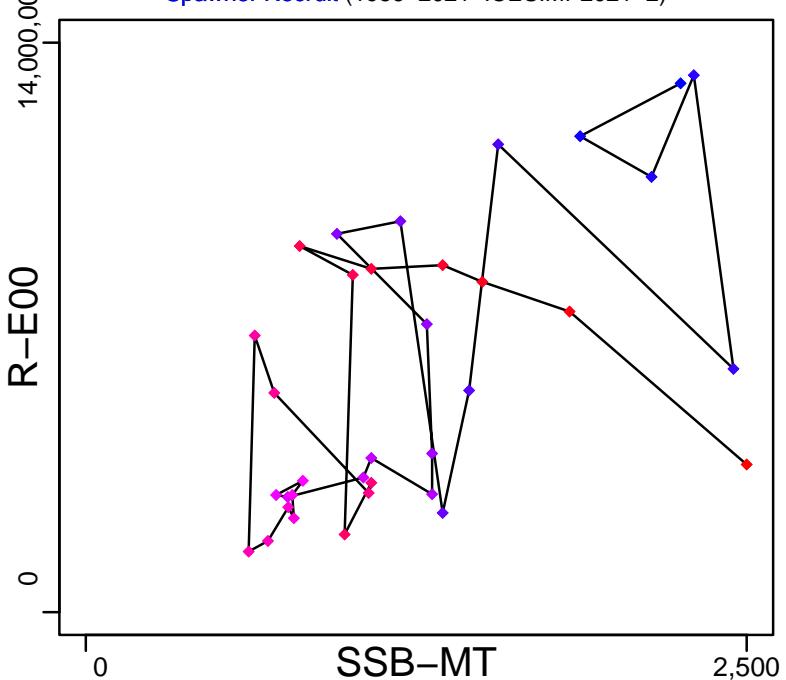
Kobe MSYpref (1986–2020–ICESIMP2021–2)



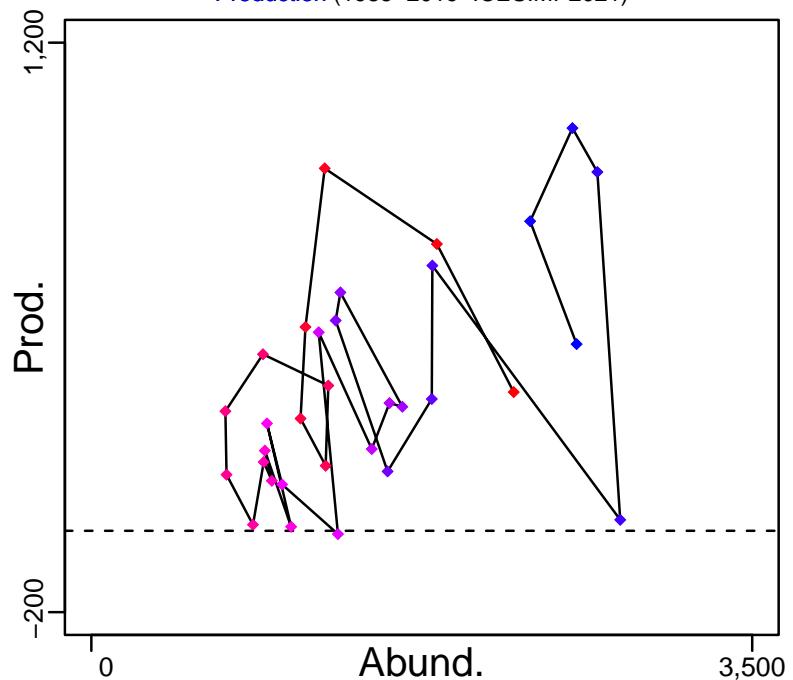
Kobe MGTpref (1986–2020–ICESIMP2021–2)



Spawner Recruit (1986–2021–ICESIMP2021–2)



Production (1985–2019–ICESIMP2021)

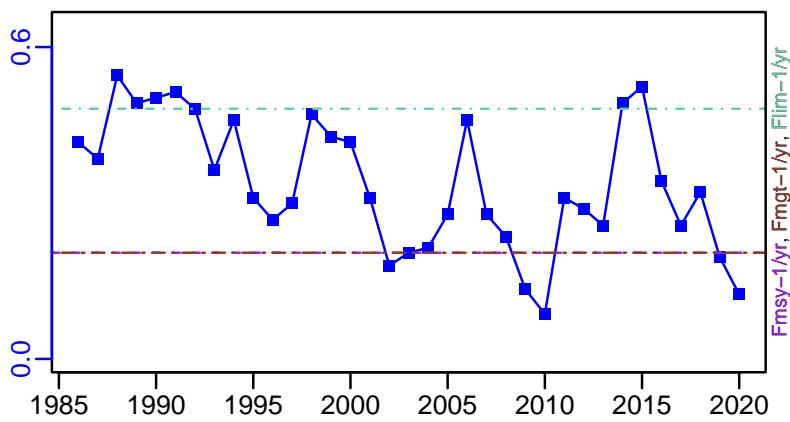
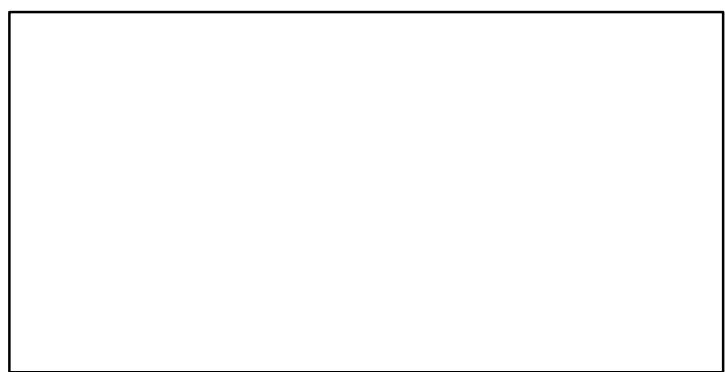
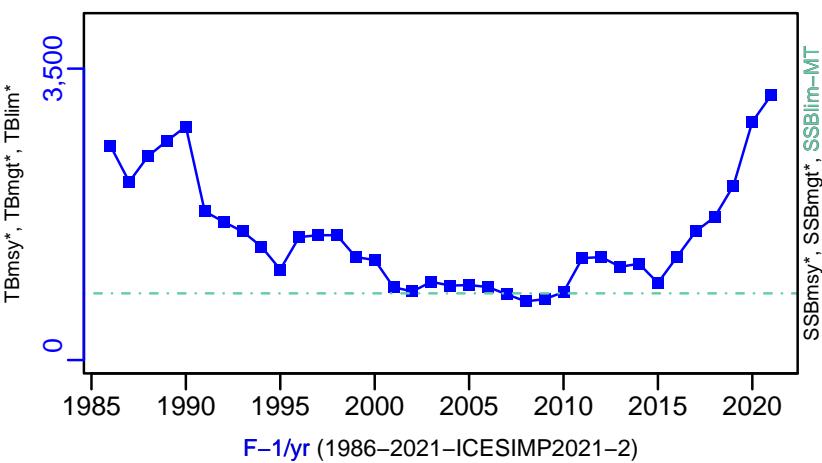
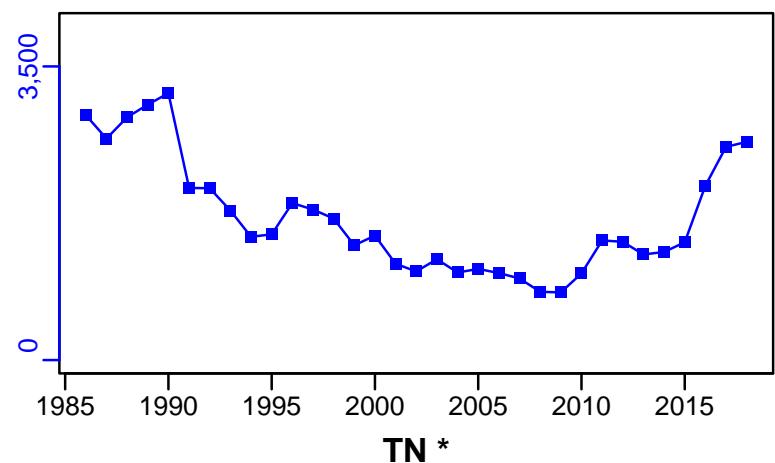


◆ Start Year ◆ End Year * No Data

Megrim ICES 8c–9a [MEG8c9a]

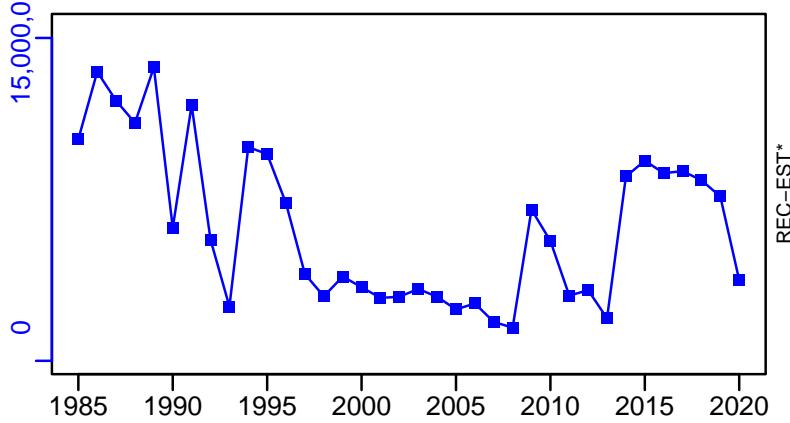
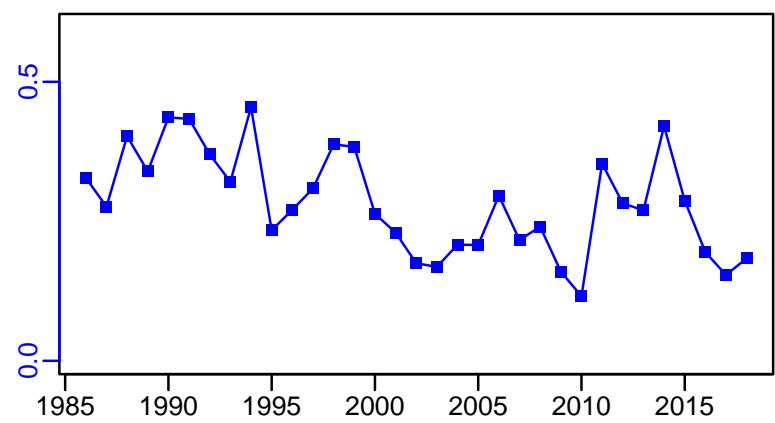
TB-MT (1985–2019–ICESIMP2021)

SSB-MT (1986–2021–ICESIMP2021–2)



ER-calc-ratio (1985–2019–ICESIMP2021)

R-E00 (1986–2021–ICESIMP2021–2)

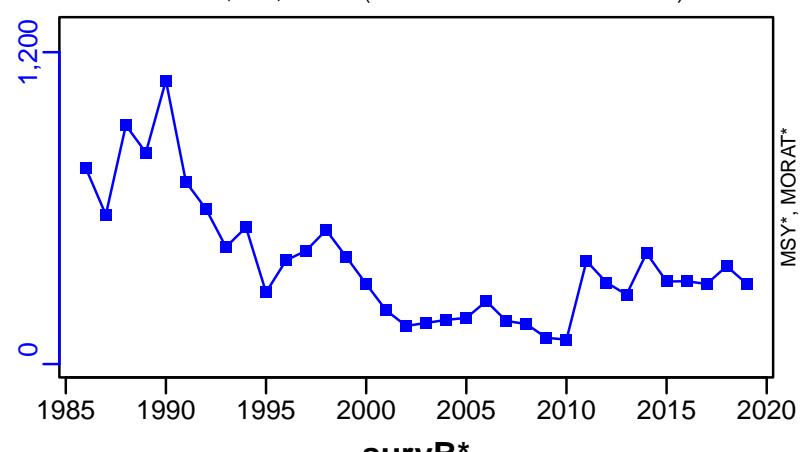


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Megrim ICES 8c–9a [MEG8c9a]

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

TAC*, Cpair*, Cadv*



survB*

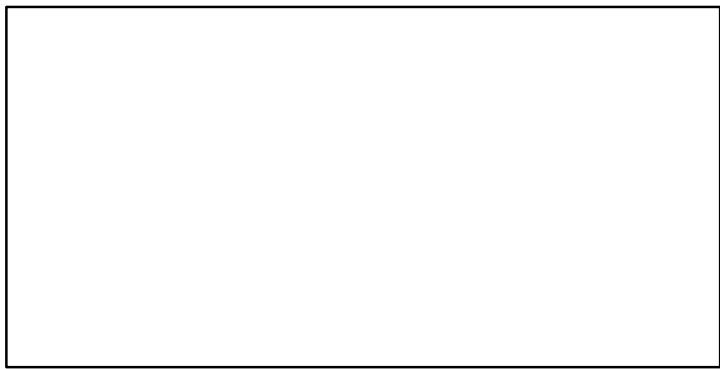
MSY*, MORAT*



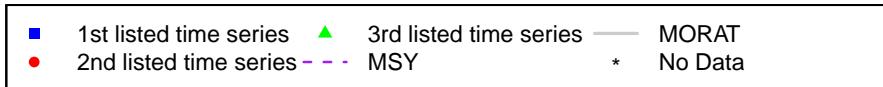
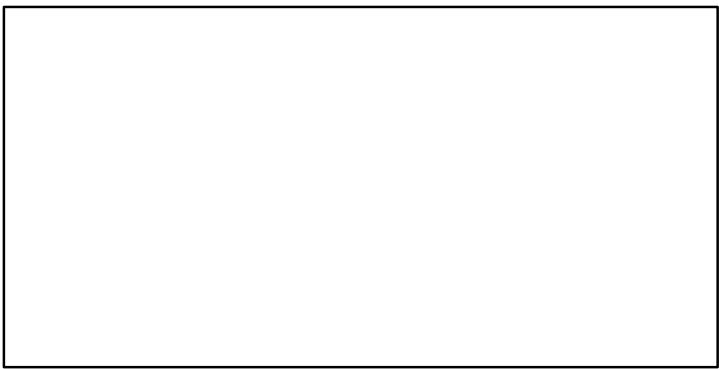
CPUE*



EFFORT*



CdivMSY*



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

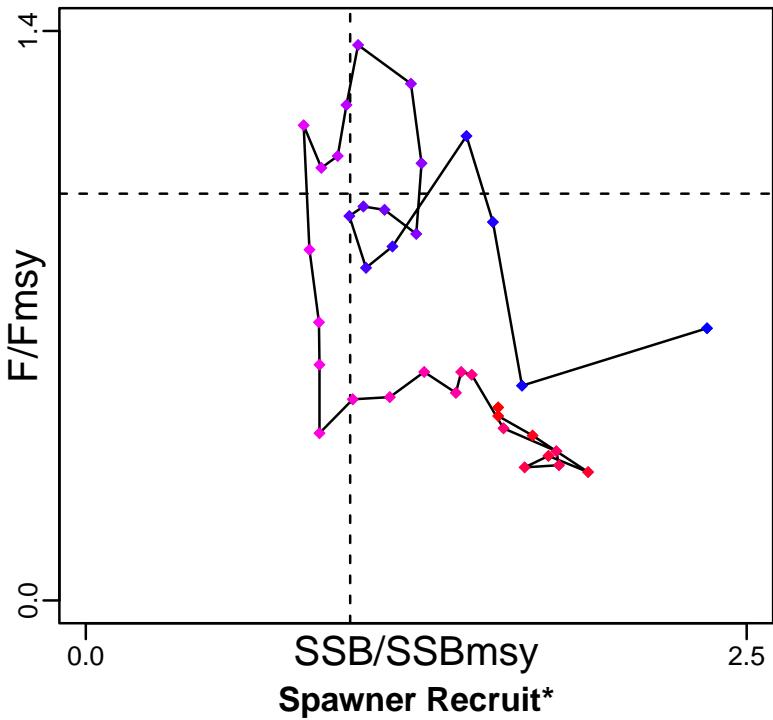
Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPIVa-VIa-1985-2021-ICESIMP2021-2
Area	ICES 4a-6a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2015, 2016, 2017, 2018, 2020, 2021

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

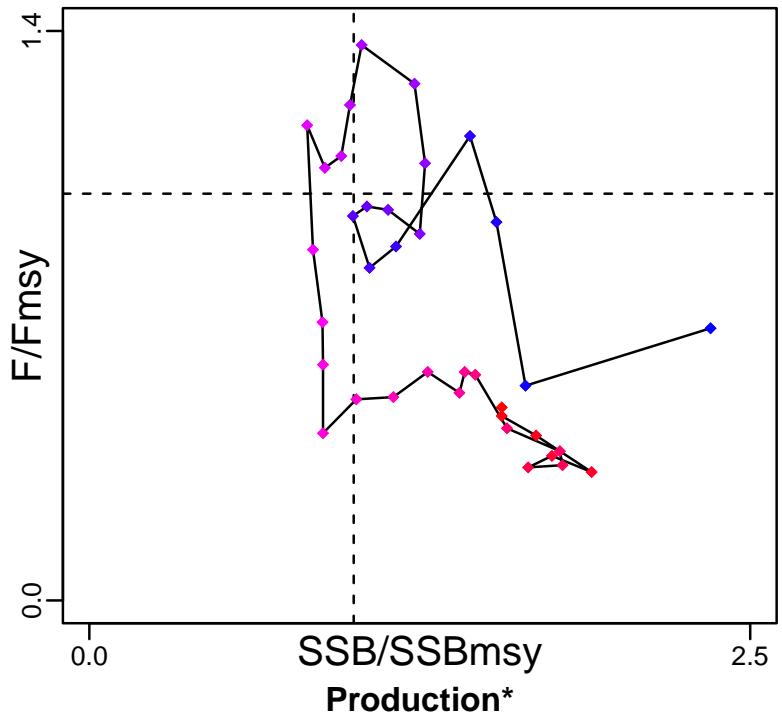
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2021	3530			
TL	TL-MT	2021	3320			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.47			
F/Fmsy	FdivFmsy-dimensionless	2021	0.475			
ER/ERmsy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

Megrim spp ICES 4a–6a [MEGSPPIVa–VIa]

Kobe MSYpref (1985–2021–ICESIMP2021–2)



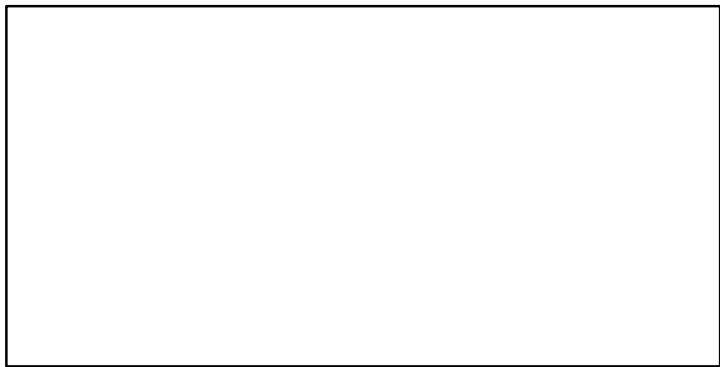
Kobe MGTpref (1985–2021–ICESIMP2021–2)



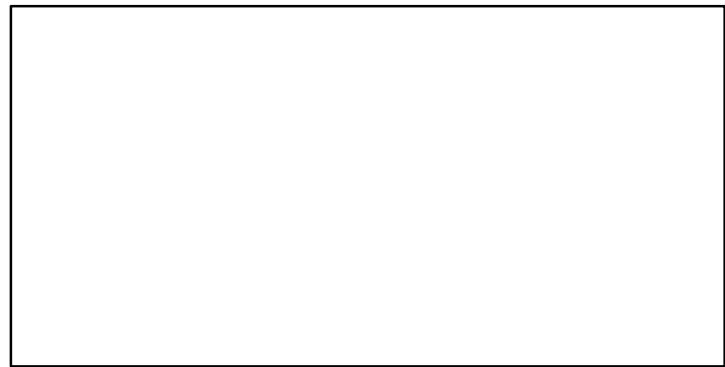
◆ Start Year ◆ End Year * No Data

Megrim spp ICES 4a–6a [MEGSPPIVa–VIa]

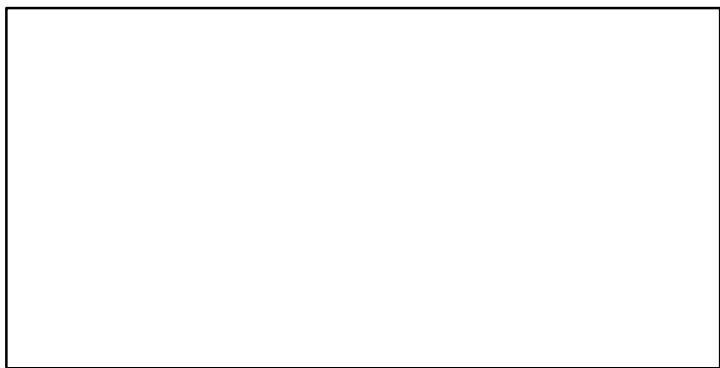
TB*



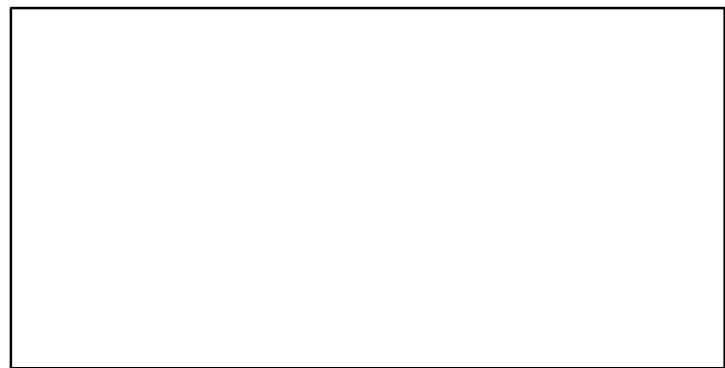
SSB*



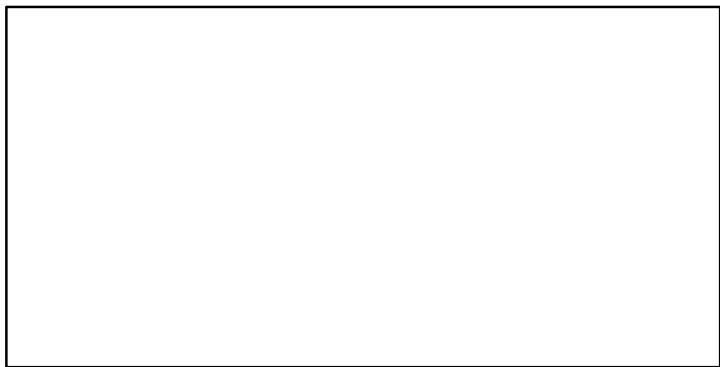
TN *



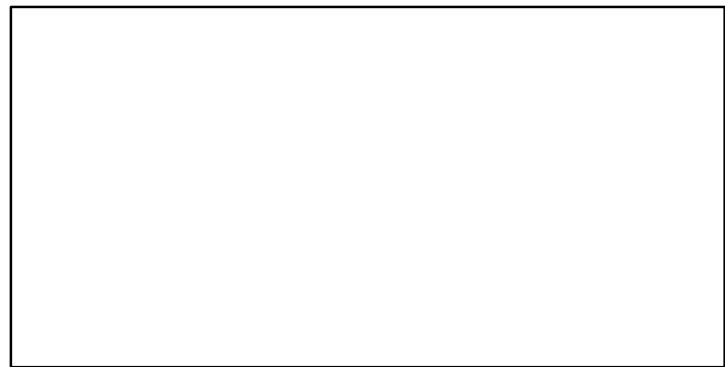
F*



ER*



Recruits*

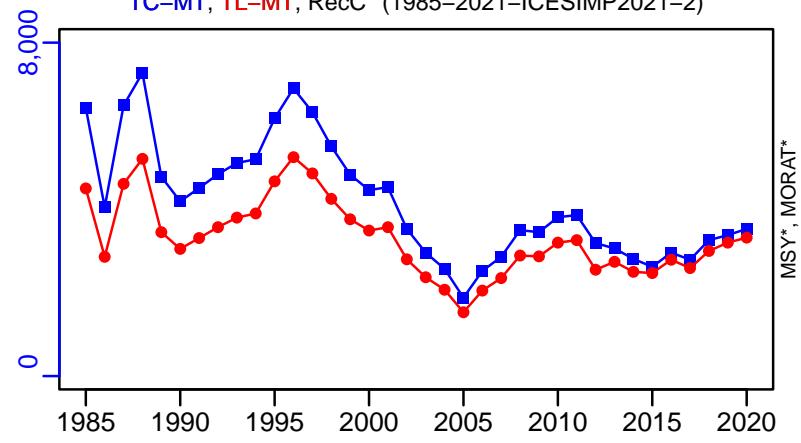


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Megrim spp ICES 4a–6a [MEGSPPIVa–VIa]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

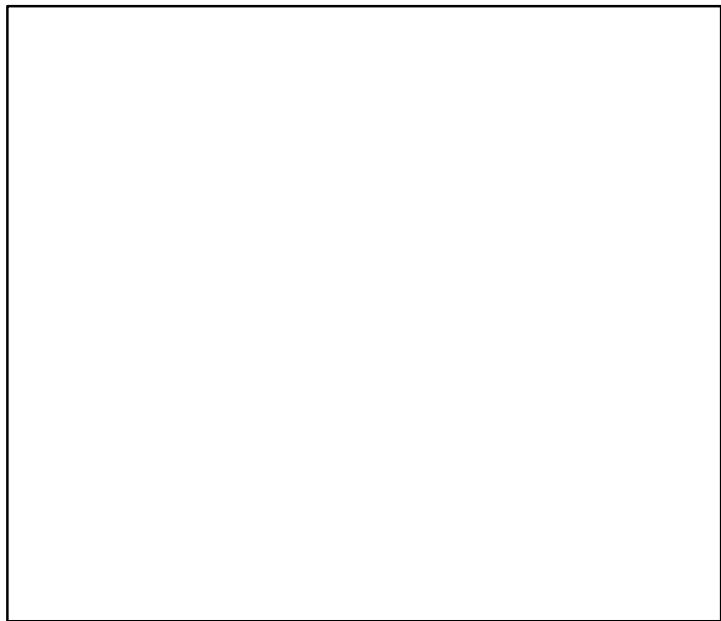
Megrim spp Rockall Bank [MEGSPPVlb]

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

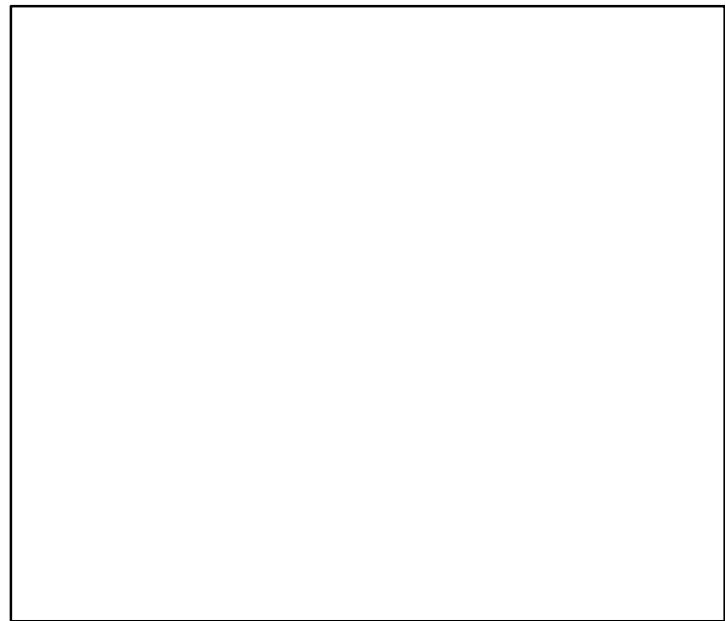
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

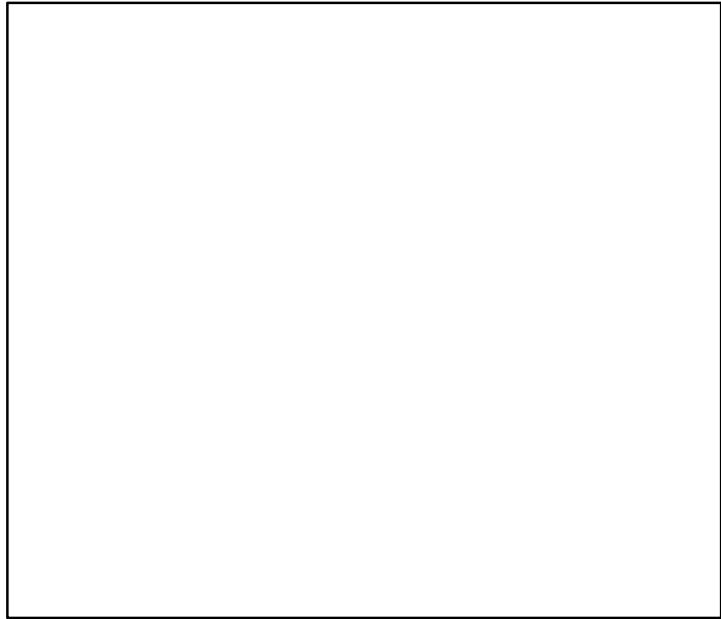
Kobe MSY*



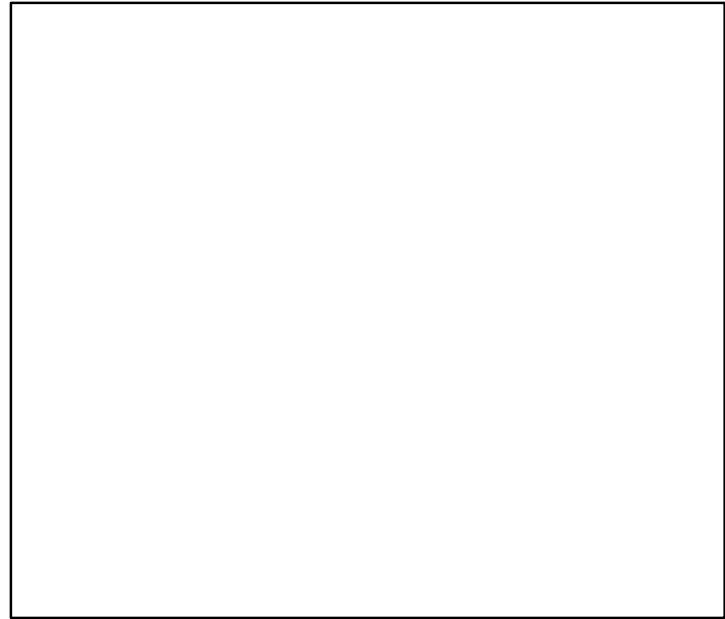
Kobe MGT*



Spawner Recruit*



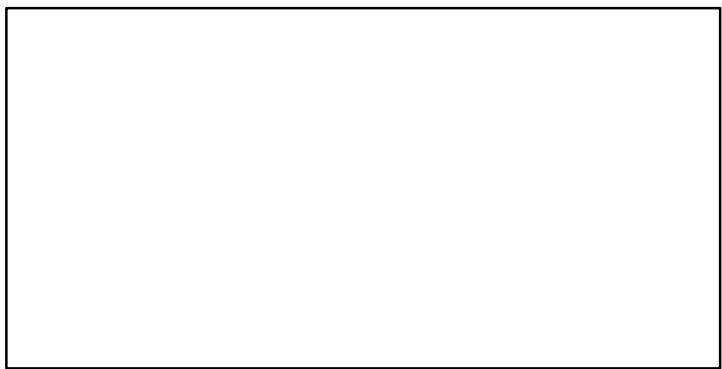
Production*



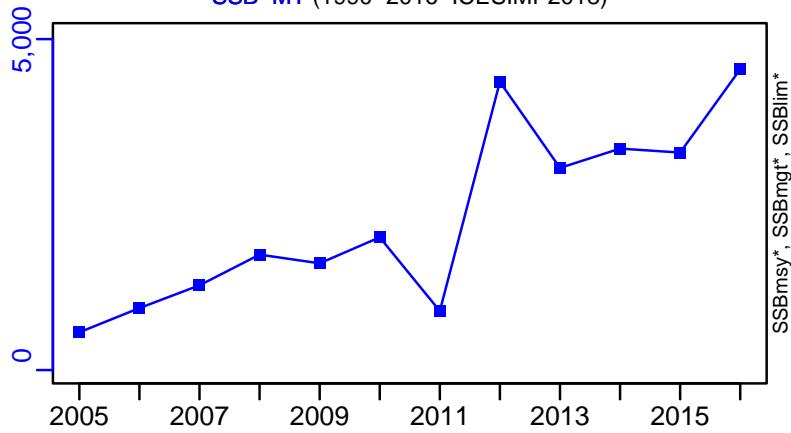
◆ Start Year ♦ End Year * No Data

Megrim spp Rockall Bank [MEGSPPVIb]

TB*



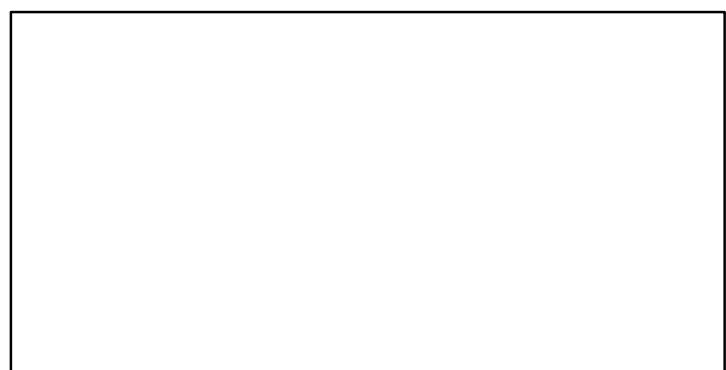
SSB-MT (1990–2016–ICESIMP2018)



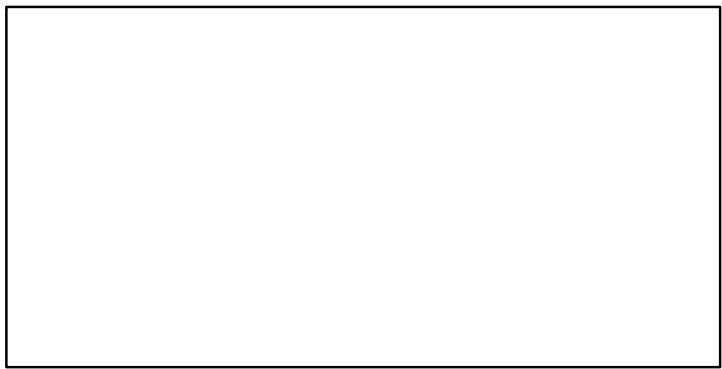
TN *



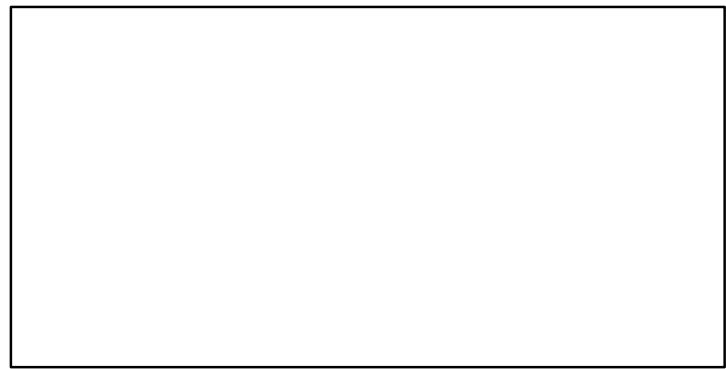
F*



ER*



Recruits*

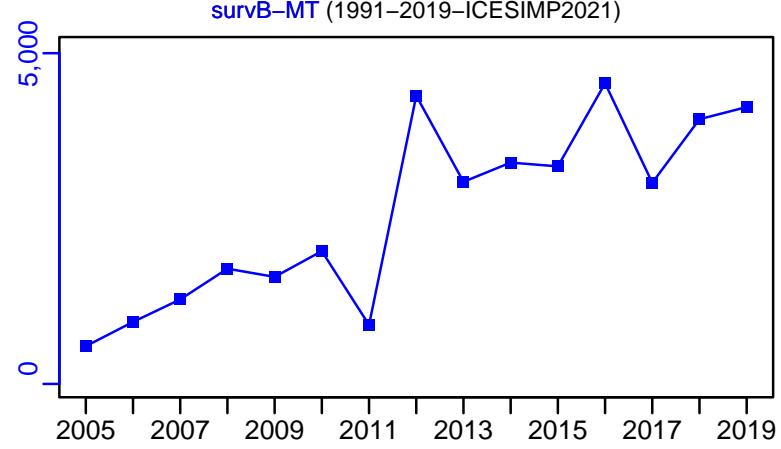
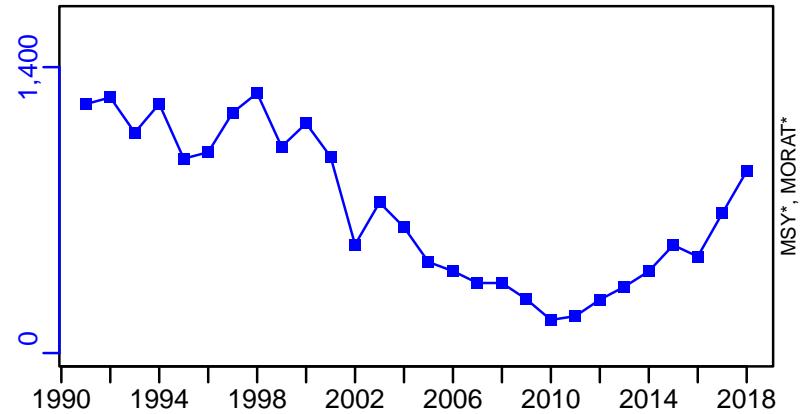


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Megrim spp Rockall Bank [MEGSPPVIb]

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

TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Megrim ICES 7-8abd [MEGVII-VIIIabd]

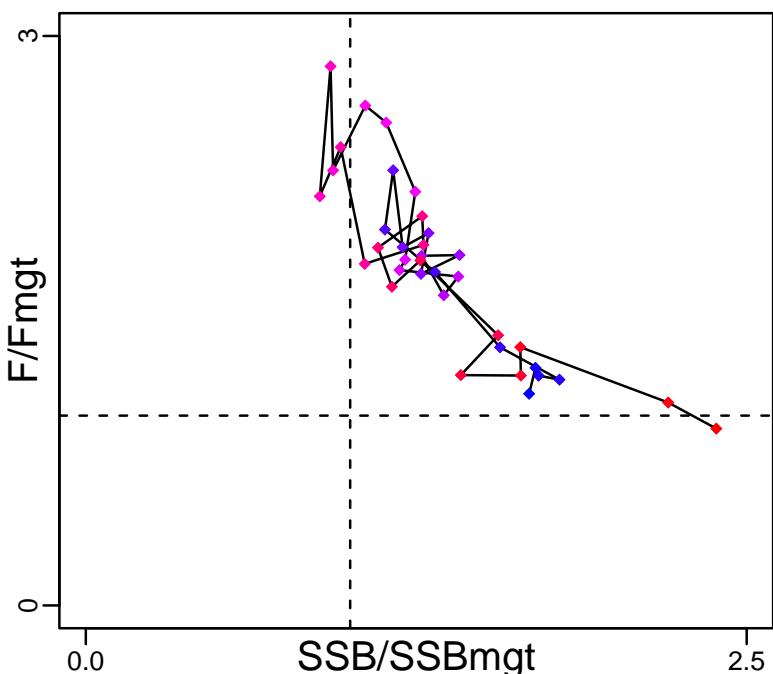
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEGVII-VIIIabd-1984-2021-ICESIMP2021-2
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014,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

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

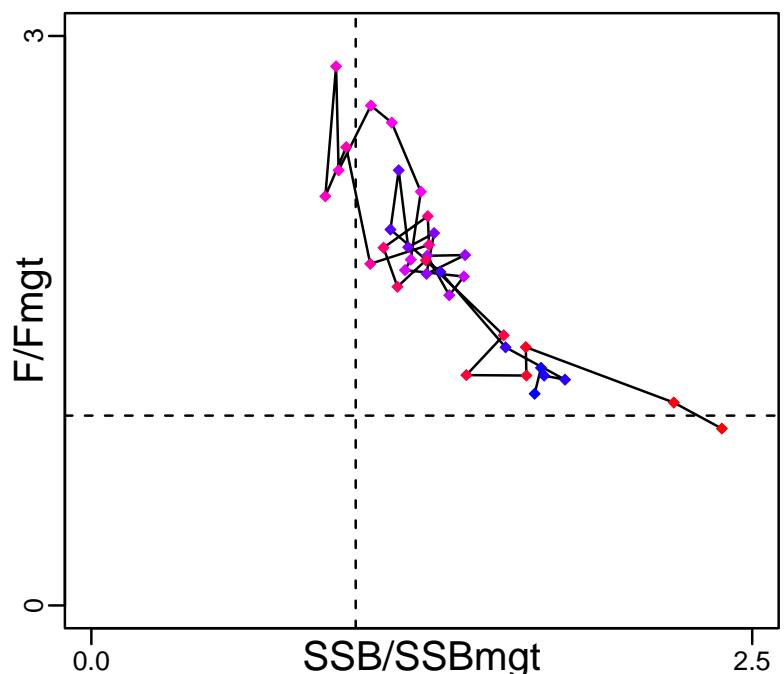
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	150,653	-	-
SSB	SSB-MT	2021	126,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	222,000	-	1
F	F-1/yr	2021	0.137	-	-
ER	ER-calc-ratio	2019	0.094	-	-
TC	TC-MT	2020	13,200		
TL	TL-MT	2021	11,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Megrim ICES 7–8abd [MEGVII–VIIIab]

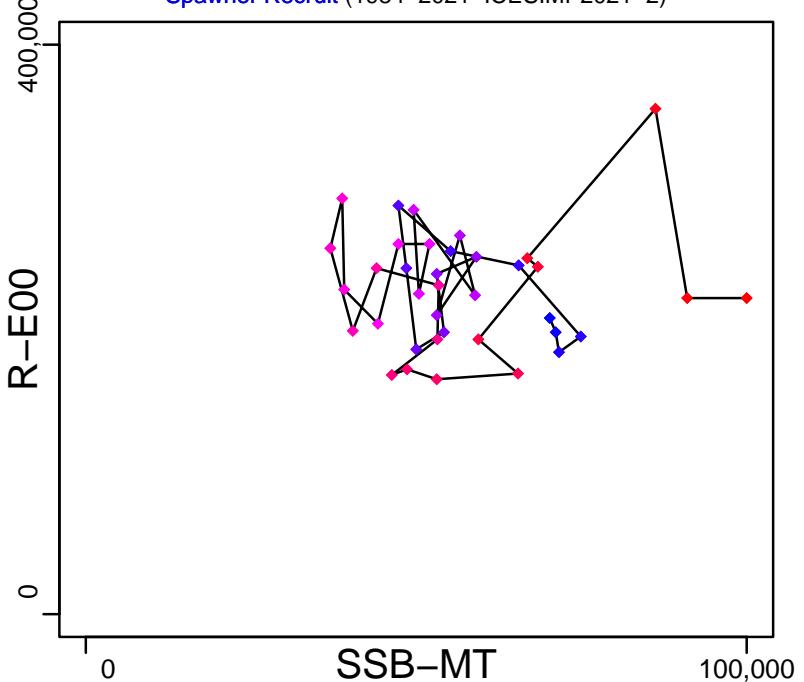
Kobe MSYpref (1984–2020–ICESIMP2021–2)



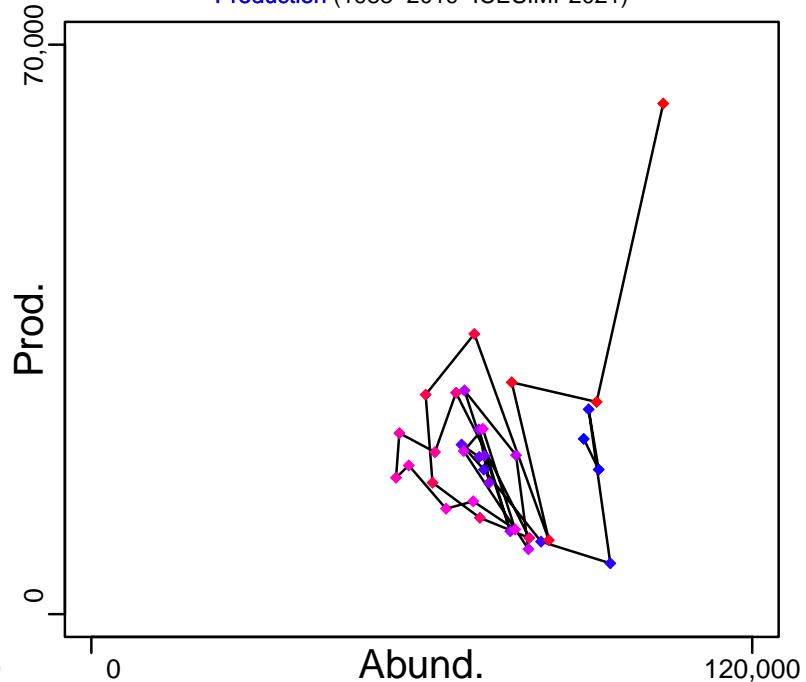
Kobe MGTpref (1984–2020–ICESIMP2021–2)



Spawner Recruit (1984–2021–ICESIMP2021–2)



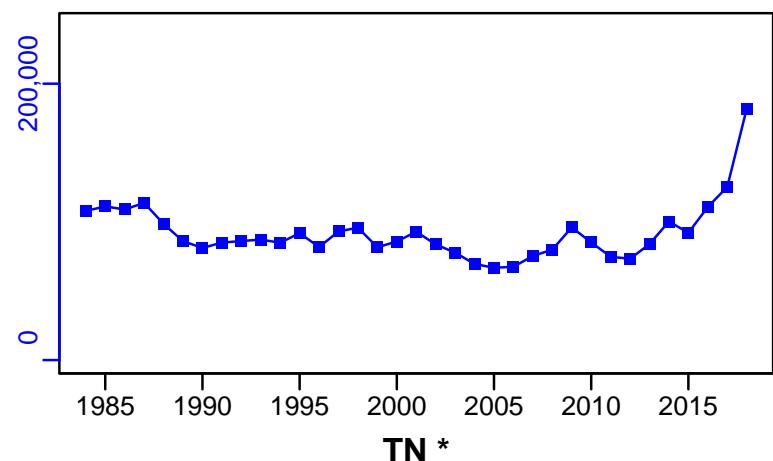
Production (1983–2019–ICESIMP2021)



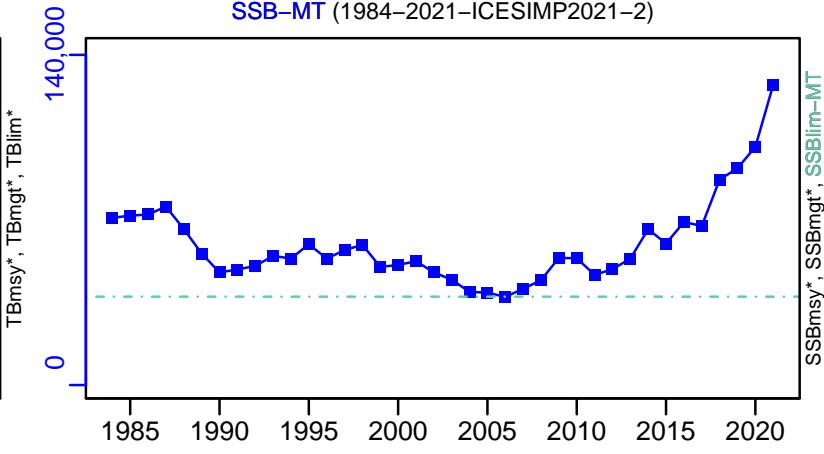
◆ Start Year ◆ End Year * No Data

Megrim ICES 7–8abd [MEGVII–VIIIab]

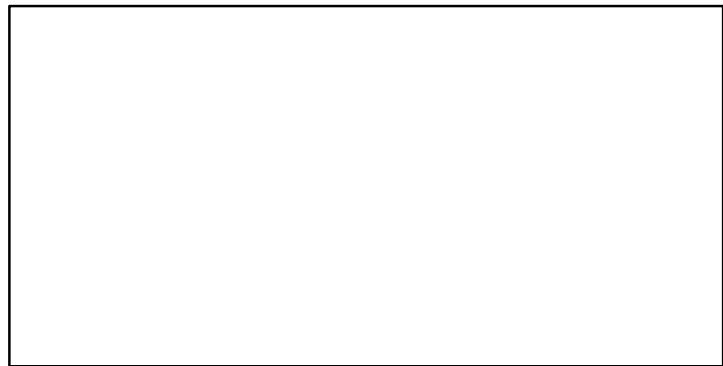
TB-MT (1983–2019–ICESIMP2021)



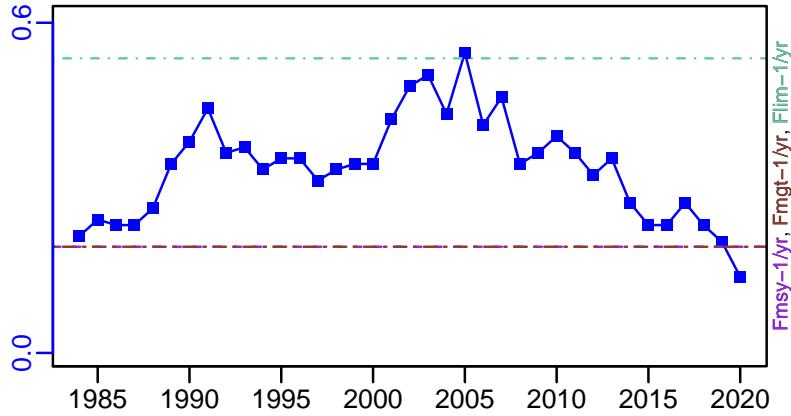
SSB-MT (1984–2021–ICESIMP2021–2)



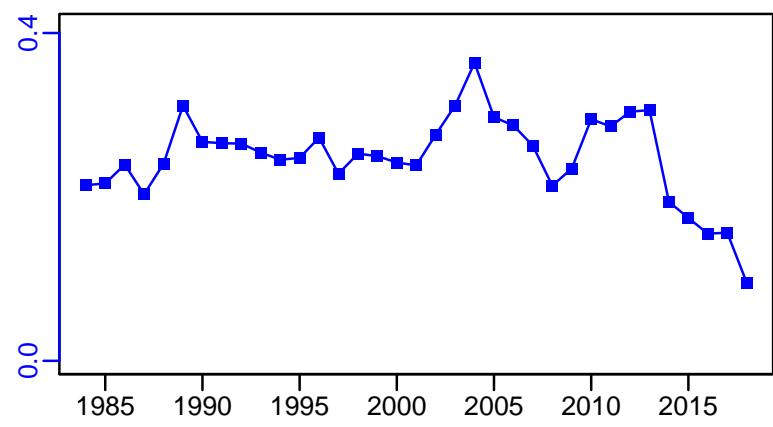
TN *



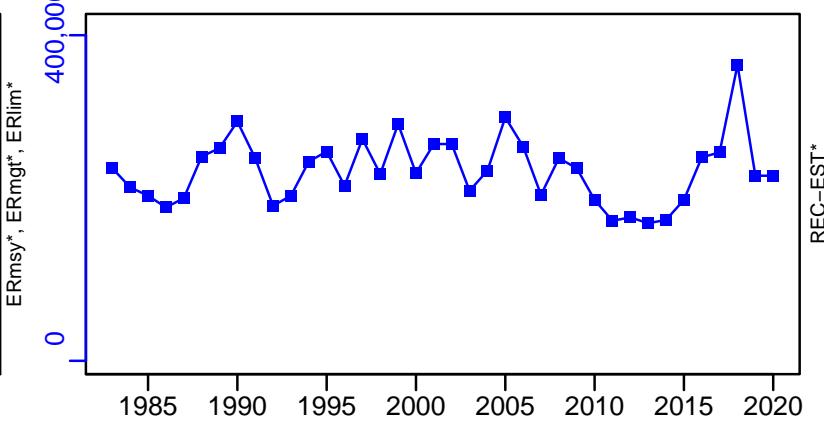
F-1/yr (1984–2021–ICESIMP2021–2)



ER-calc-ratio (1983–2019–ICESIMP2021)



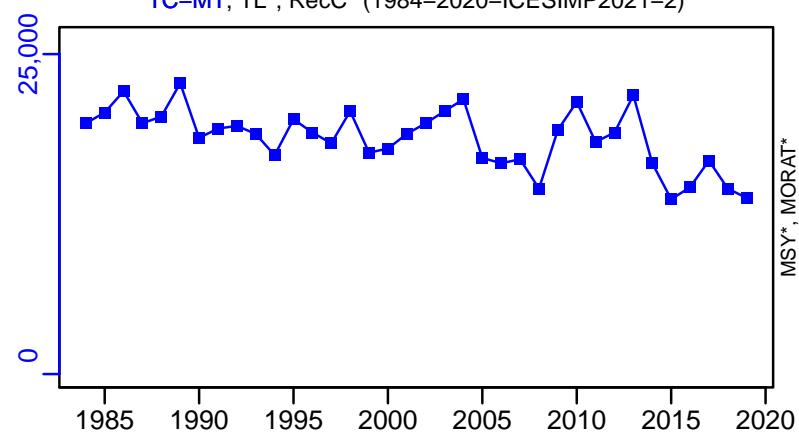
R-E00 (1984–2021–ICESIMP2021–2)



Megrim ICES 7–8abd [MEGVII–VIIIab]

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

TAC*, Cpair*, Cadv*



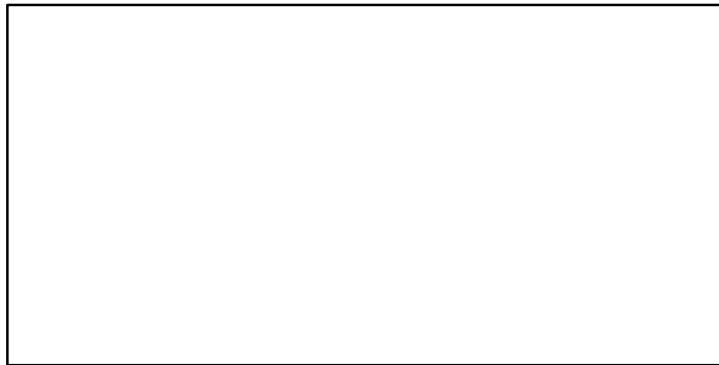
survB*



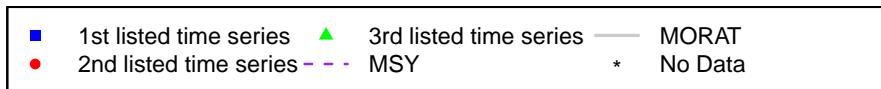
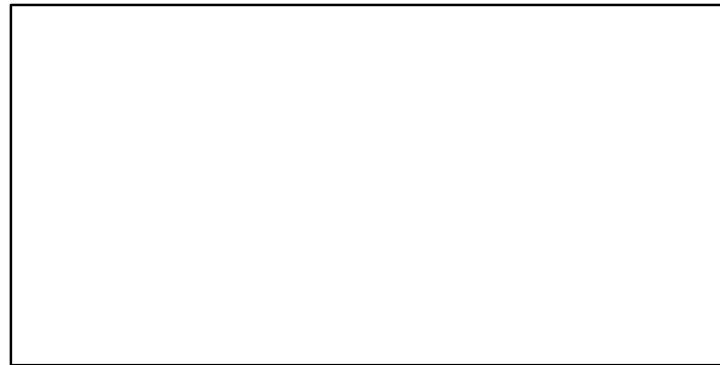
CPUE*



EFFORT*



CdivMSY*



Norway lobster Noup (FU 10) [NEPHFU10]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU10-1994-2019-ICESIMP2021-2
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, 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	21		
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 Noup (FU 10) [NEPHFU10]

TB*



SSB*



TN *



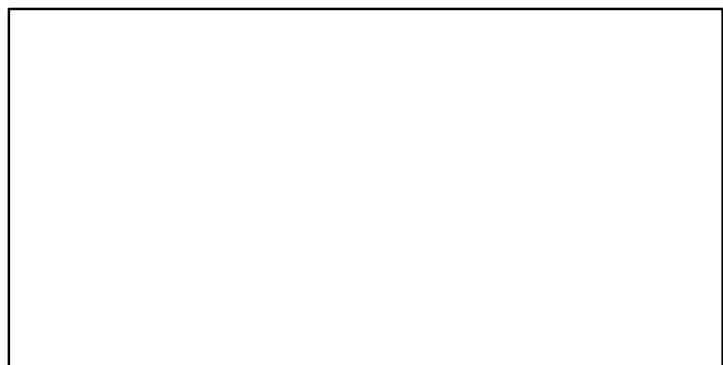
F*



ER*



Recruits*

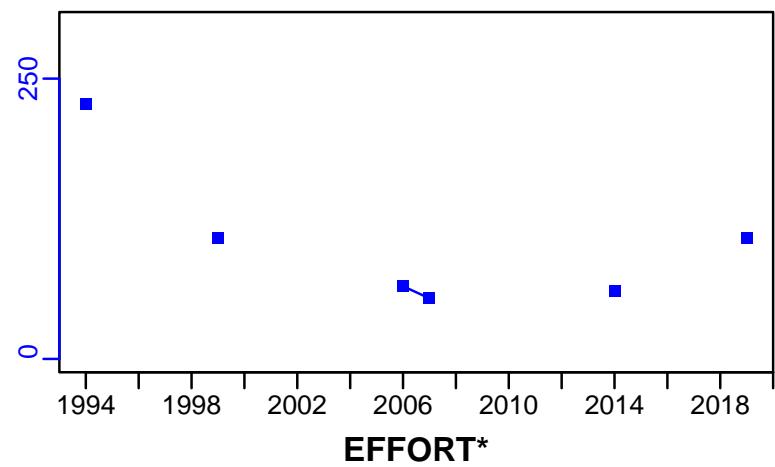
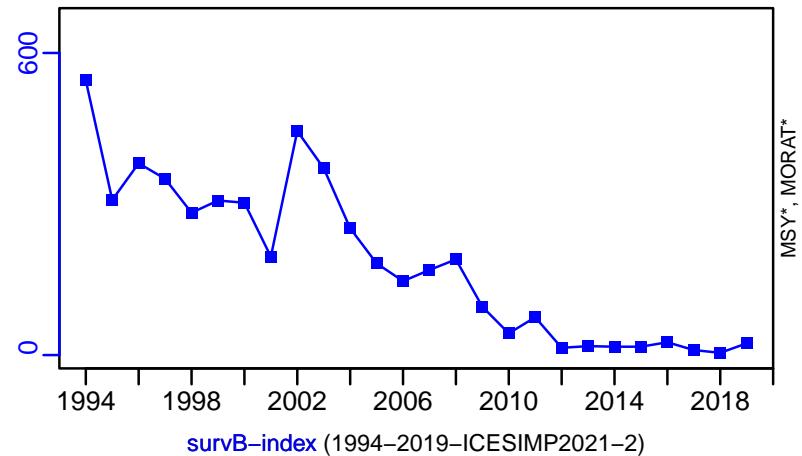


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

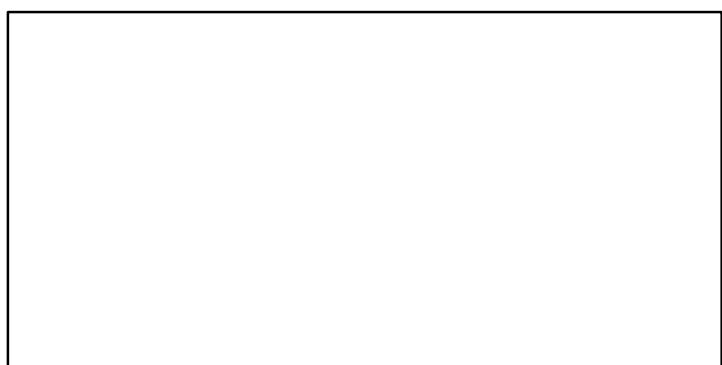
Norway lobster Noup (FU 10) [NEPHFU10]

TL-MT, TC*, RecC* (1994–2019–ICESIMP2021–2)

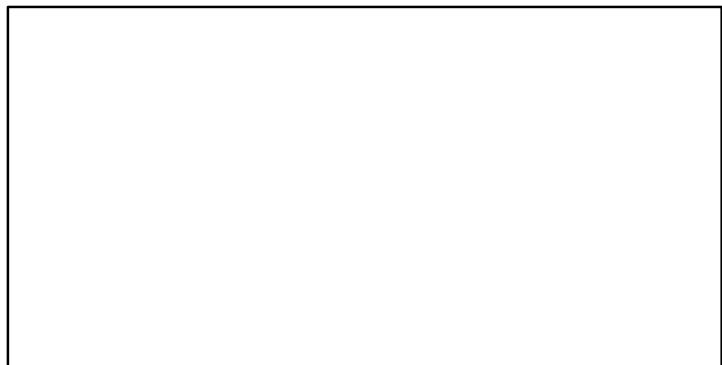
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



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

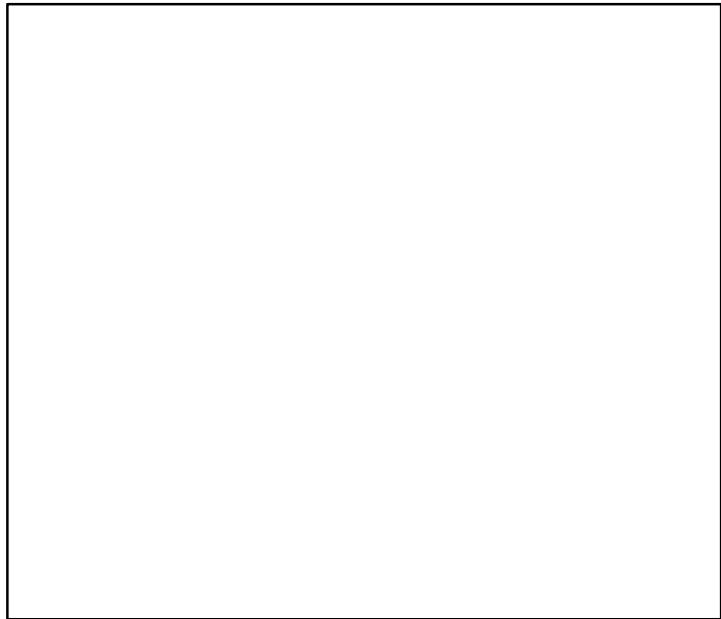
Norway lobster North Minch (FU 11) [NEPHFU11]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU11-1981-2020-ICESIMP2021-2
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, 2020

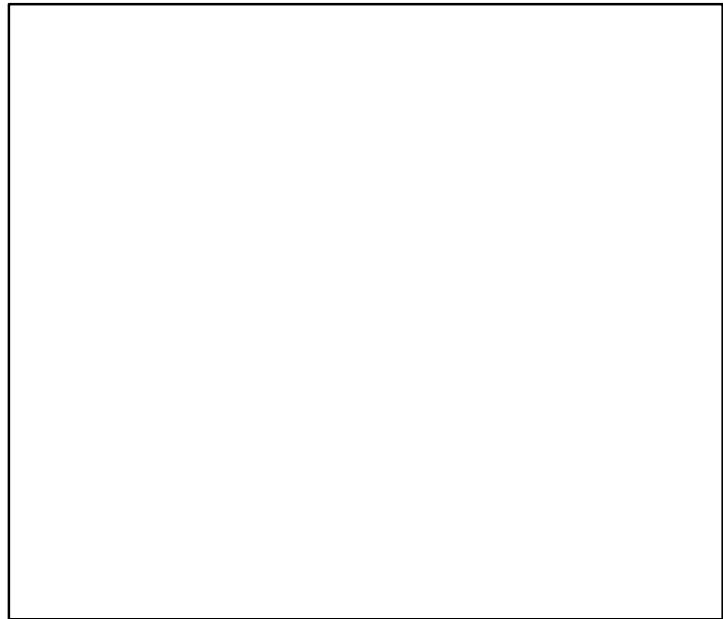
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.108
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.108
ERmgt	ERmgt-ratio	2019	0.108
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2020	0.071	-	-	
ER	ER-ratio	2019	0.064	-	-	
TC	TC-MT	2020	2270			
TL	TL-MT	2020	2220			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.991			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

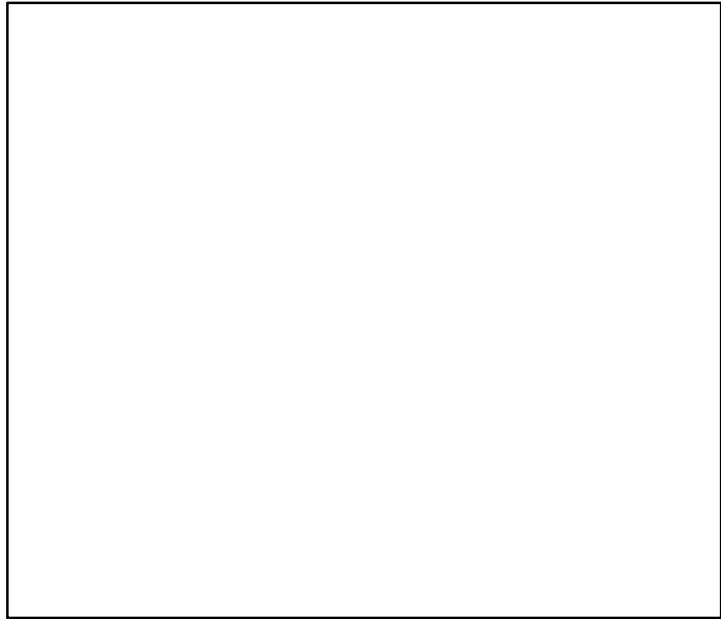
Kobe MSY*



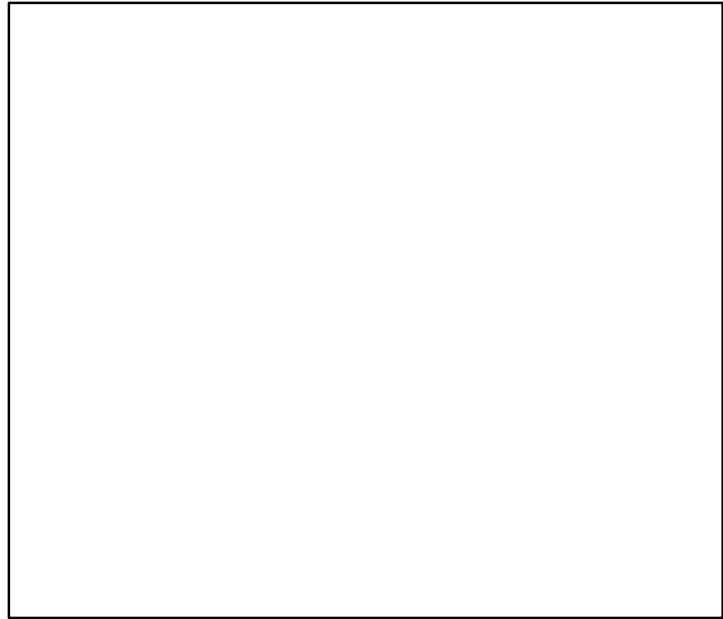
Kobe MGT*



Spawner Recruit*



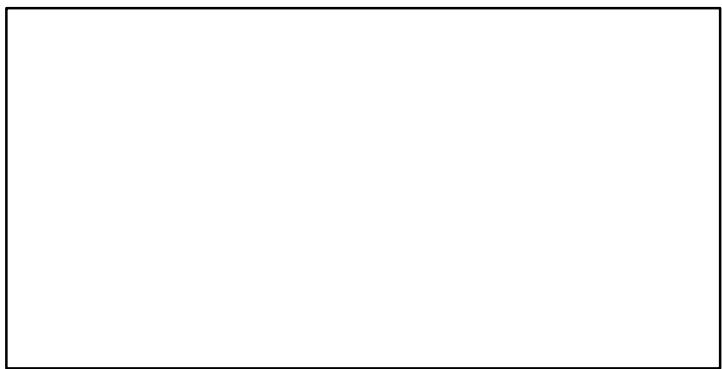
Production*



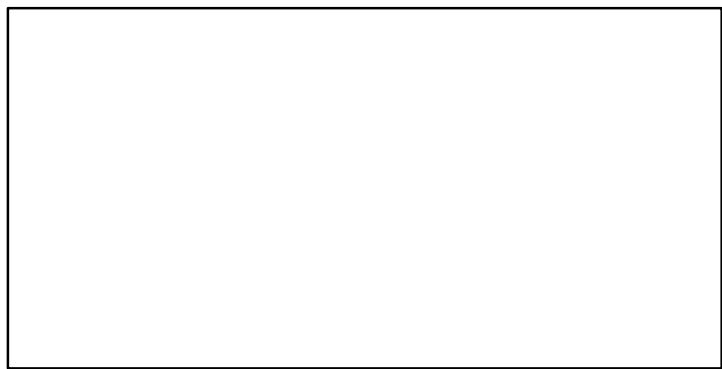
◆ Start Year ♦ End Year * No Data

Norway lobster North Minch (FU 11) [NEPHFU11]

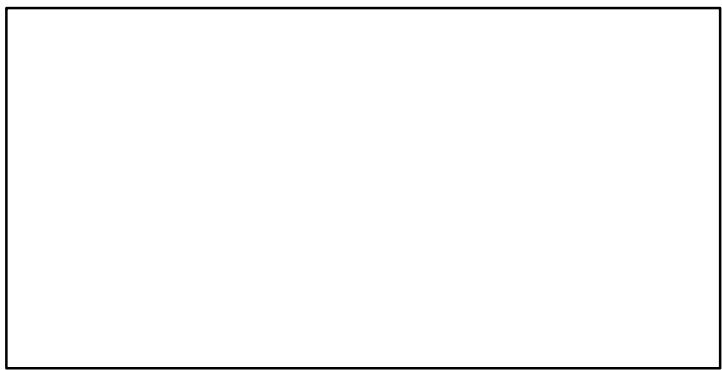
TB*



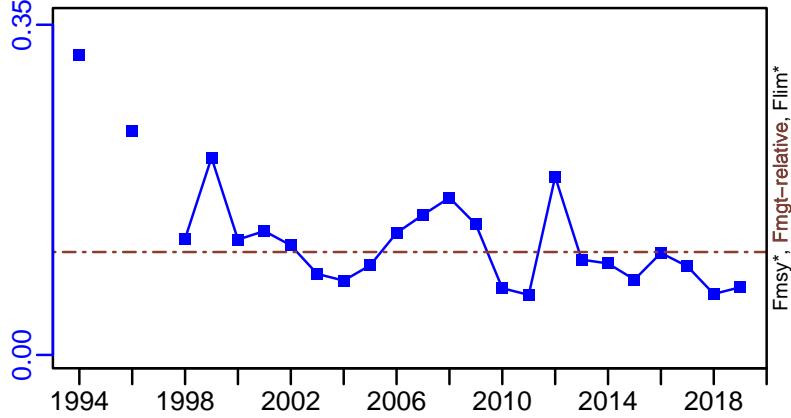
SSB*



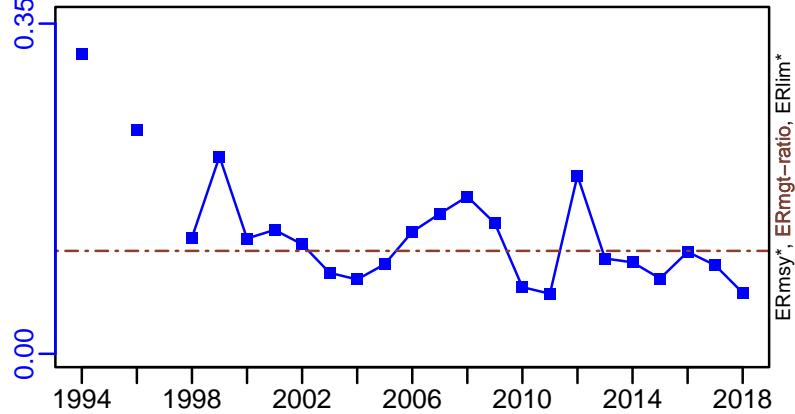
TN *



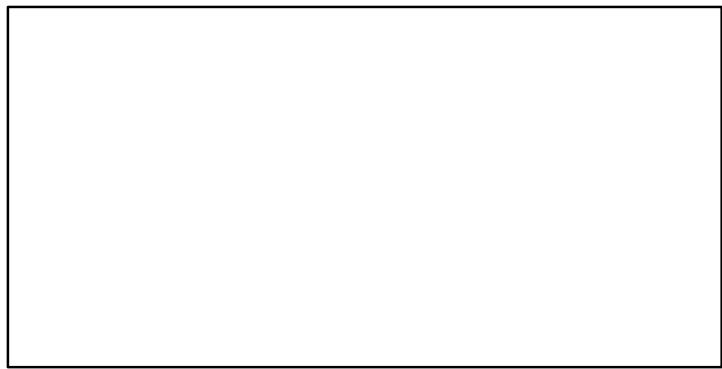
F-relative (1981–2020–ICESIMP2021–2)



ER-ratio (1981–2019–ICESIMP2021)



Recruits*

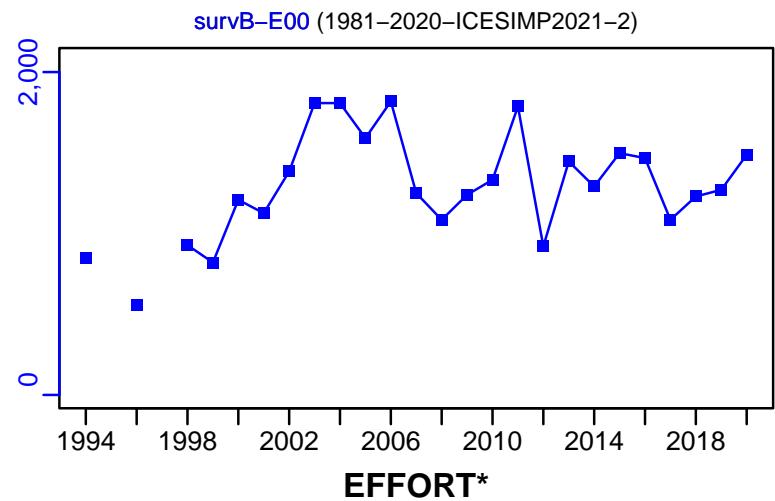
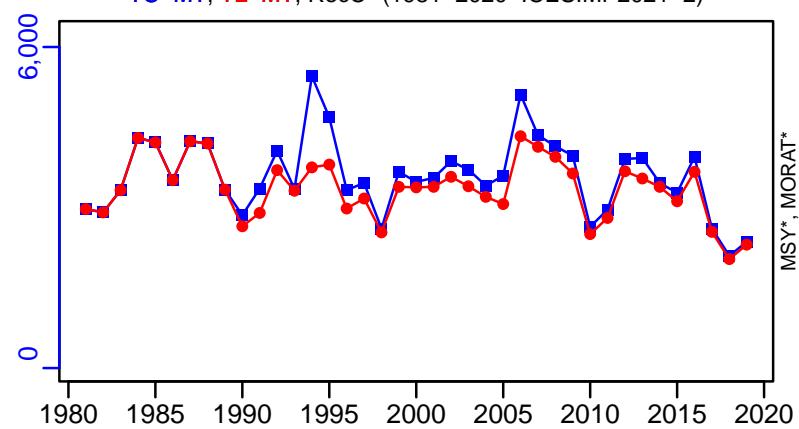


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

Norway lobster North Minch (FU 11) [NEPHFU11]

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

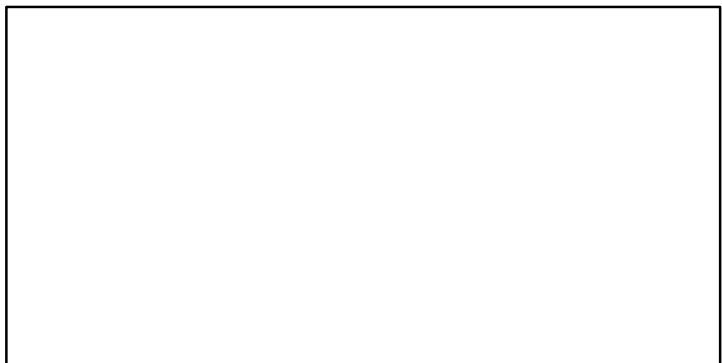
TAC*, Cpair*, Cadv*



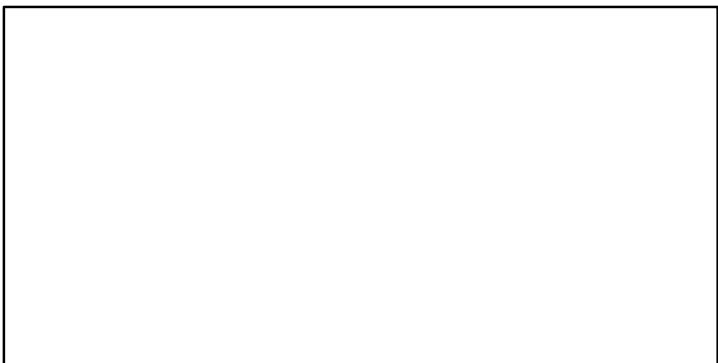
CPUE*



EFFORT*



CdivMSY*



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

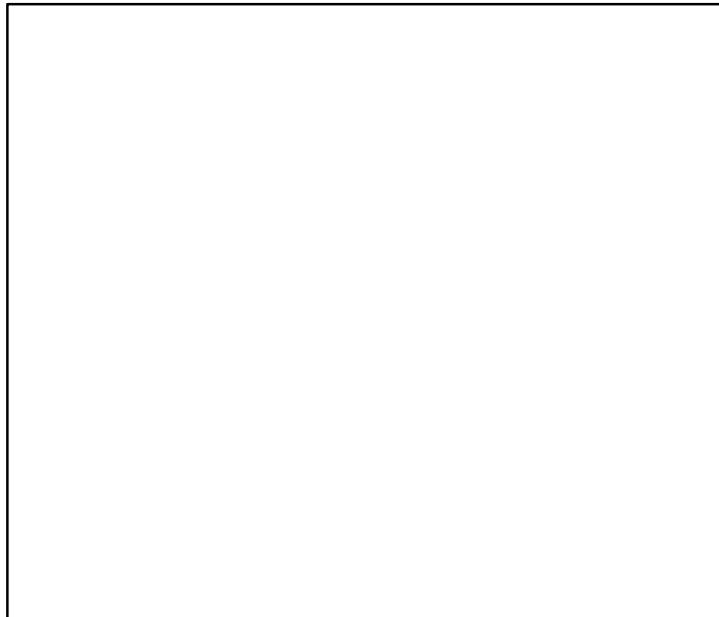
Norway lobster South Minch (FU 12) [NEPHFU12]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU12-1979-2020-ICESIMP2021-2
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, 2020, 2015, 2016

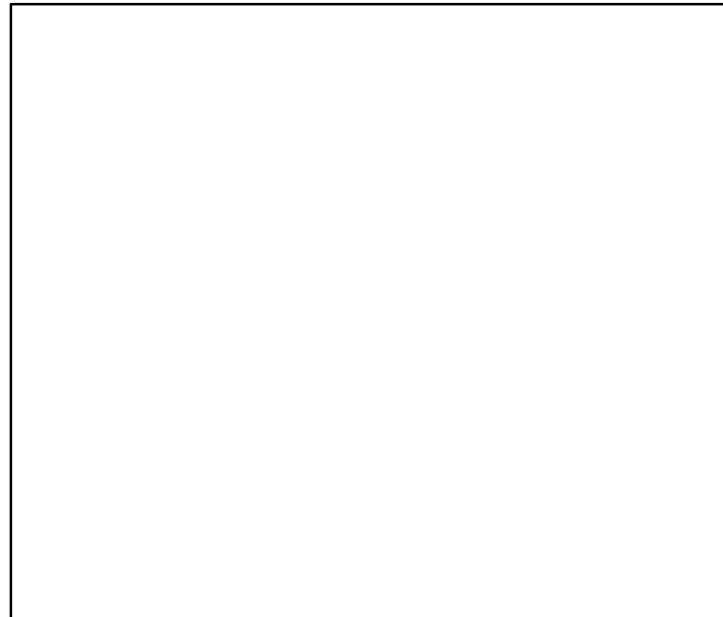
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.117
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.117
ERmgt	ERmgt-ratio	2019	0.117
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2020	0.035	-	-	
ER	ER-ratio	2019	0.048	-	-	
TC	TC-MT	2020	2350			
TL	TL-MT	2020	2300			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.812			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

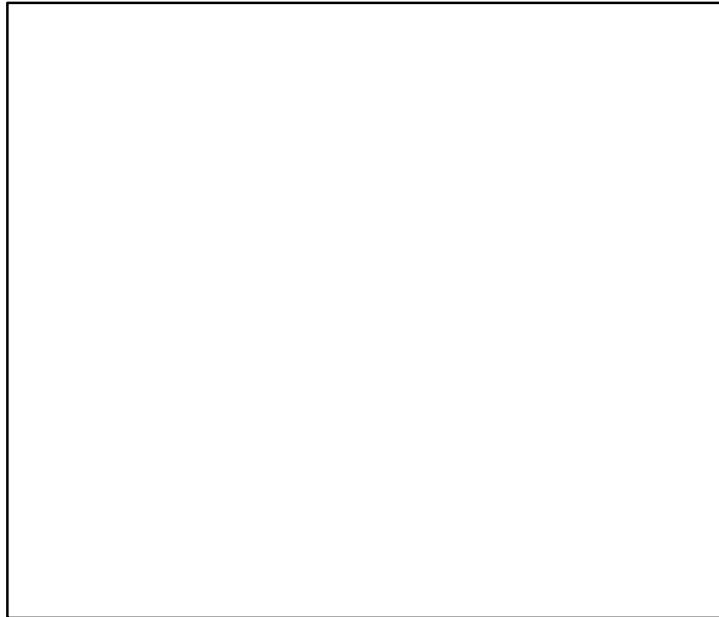
Kobe MSY*



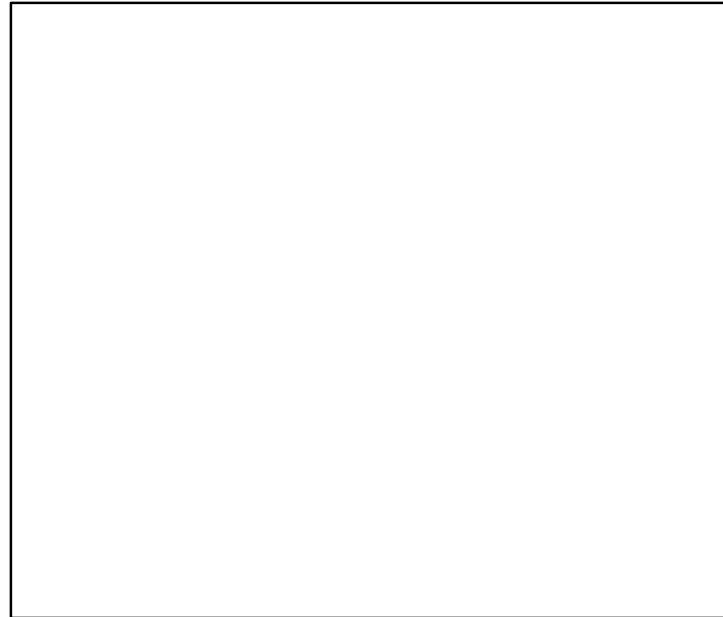
Kobe MGT*



Spawner Recruit*



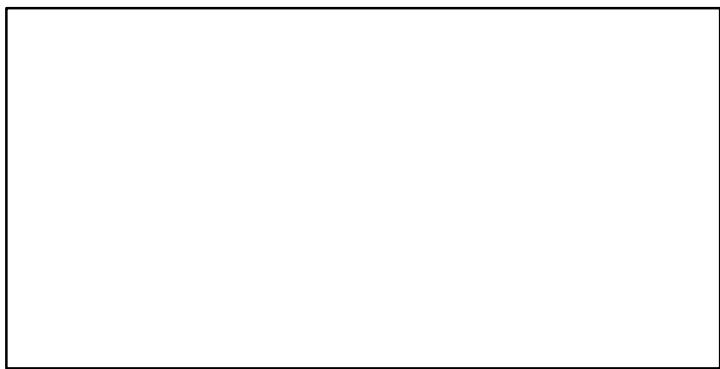
Production*



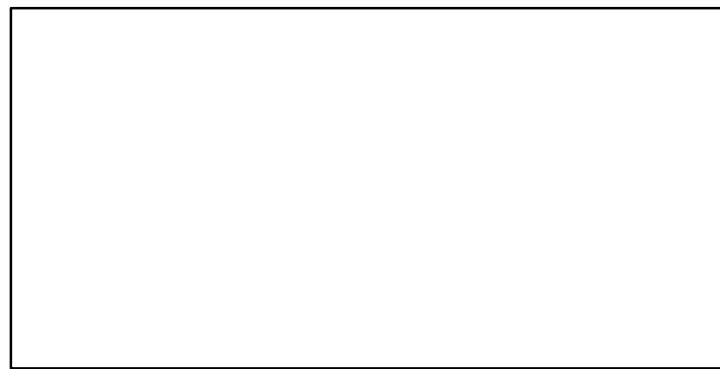
◆ Start Year ♦ End Year * No Data

Norway lobster South Minch (FU 12) [NEPHFU12]

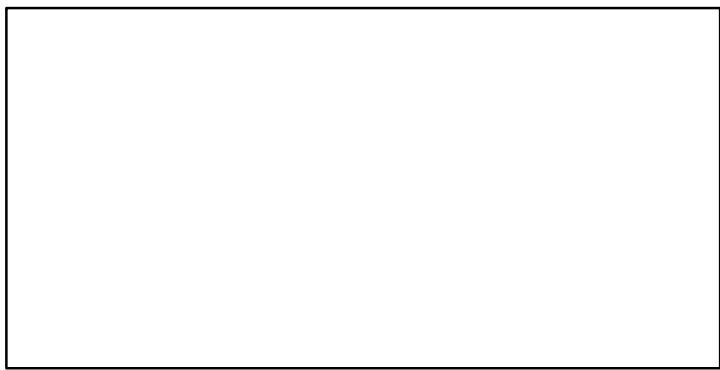
TB*



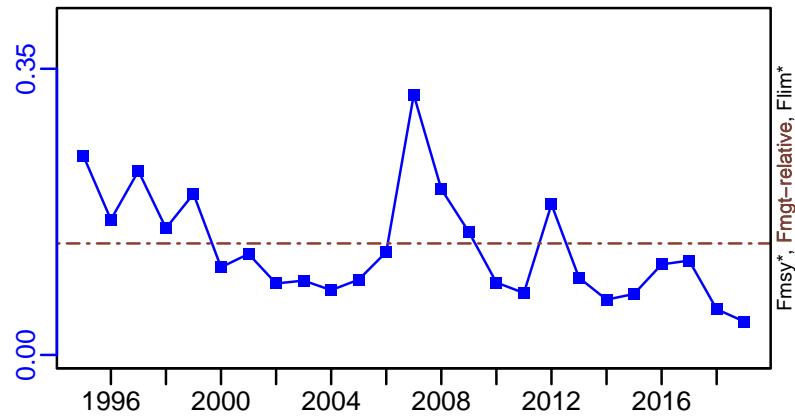
SSB*



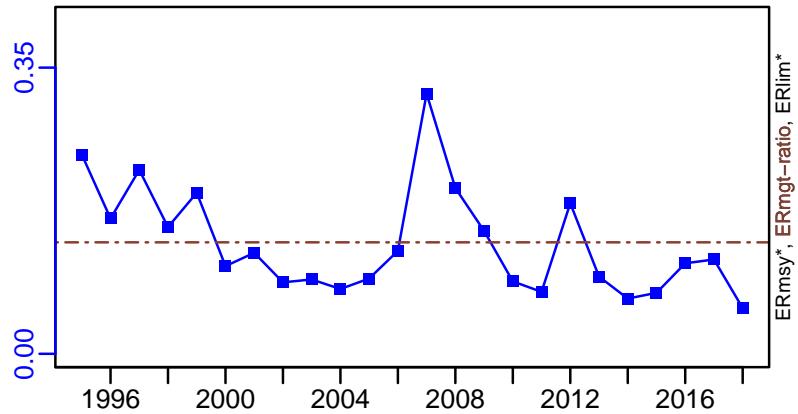
TN *



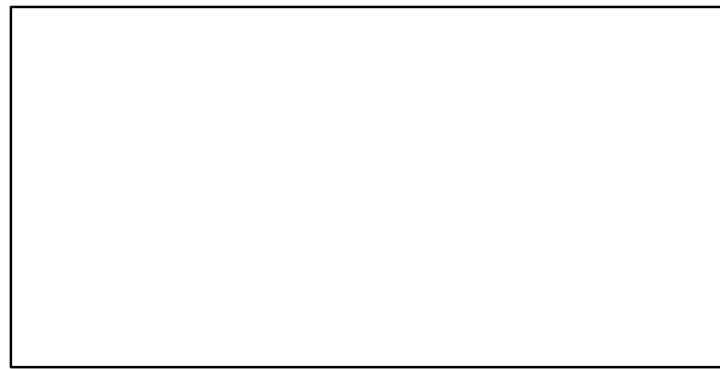
F-relative (1979–2020–ICESIMP2021–2)



ER-ratio (1979–2019–ICESIMP2021)



Recruits*

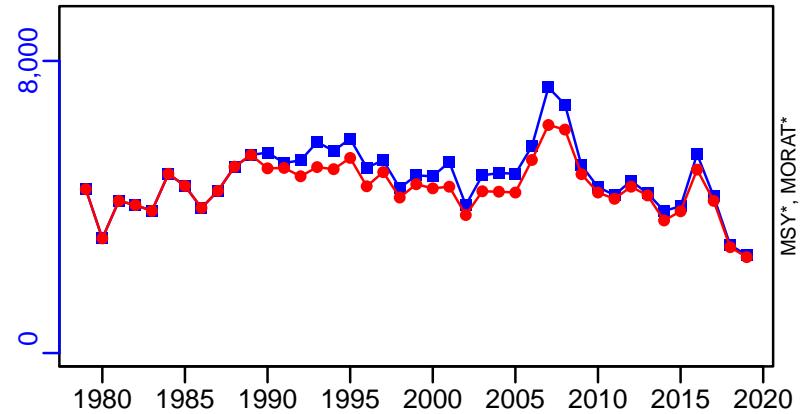


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | --- Lim BRP | * No Data |

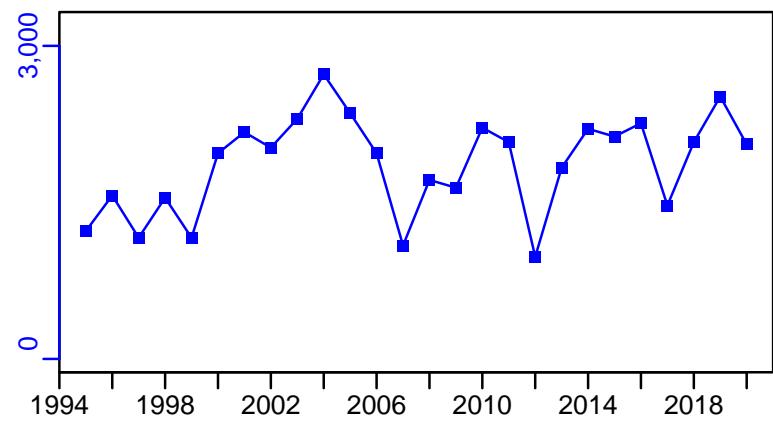
Norway lobster South Minch (FU 12) [NEPHFU12]

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

TAC*, Cpair*, Cadv*



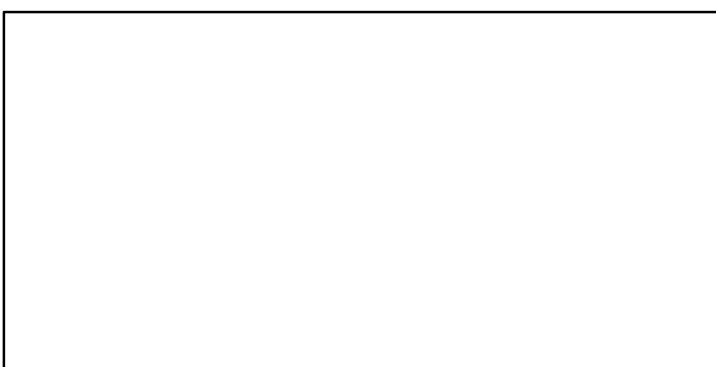
survB-E00 (1979–2020–ICESIMP2021–2)



EFFORT*



CPUE*



CdivMSY*



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

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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU13-1981-2020-ICESIMP2021-2
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, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.151
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.151
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	F-relative	2020	0.142	-	-	
ER	ER-ratio	2019	0.111	-	-	
TC	TC-MT	2020	5430			
TL	TL-MT	2020	4970			
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*

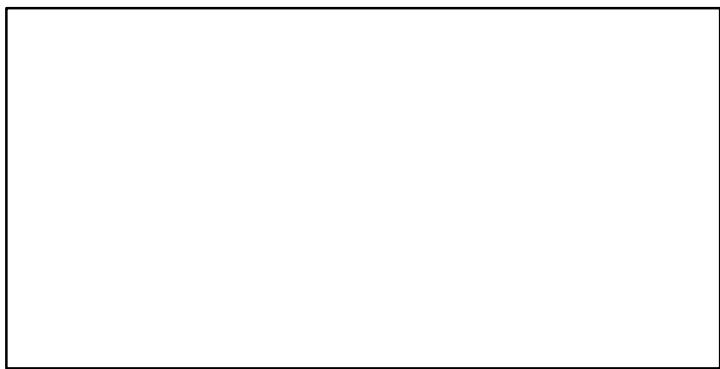
Spawner Recruit*

Production*

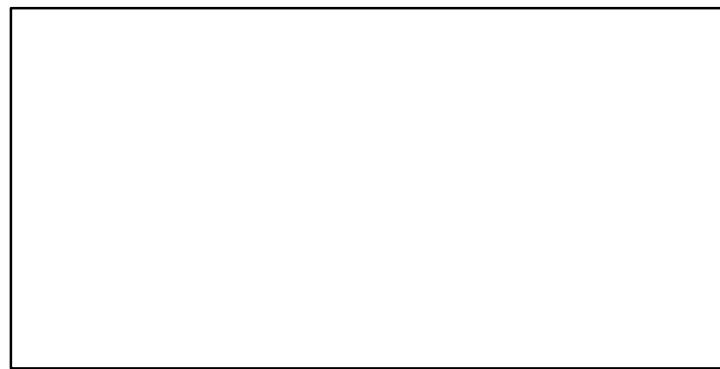
◆ Start Year ◆ End Year * No Data

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

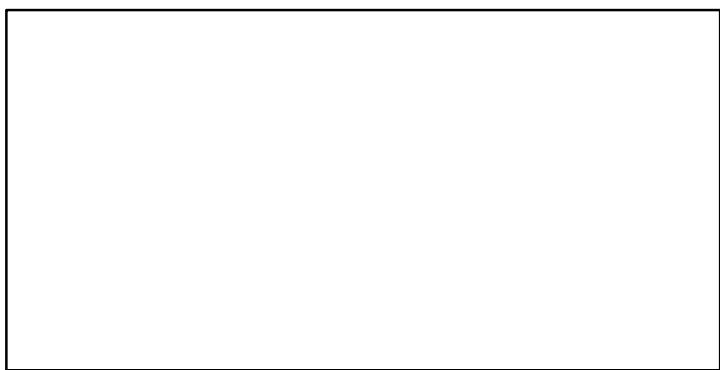
TB*



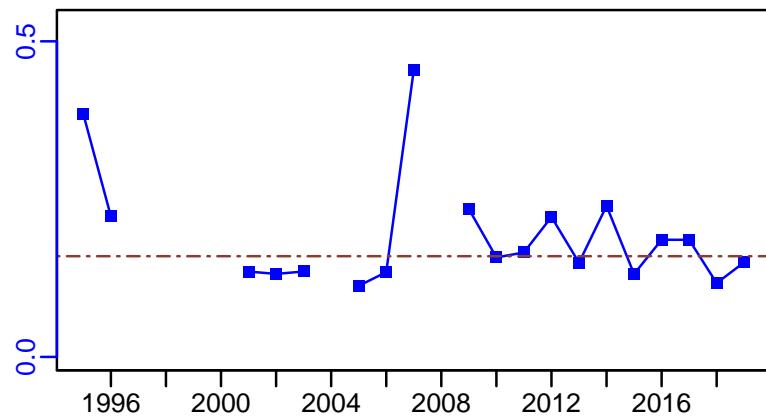
SSB*



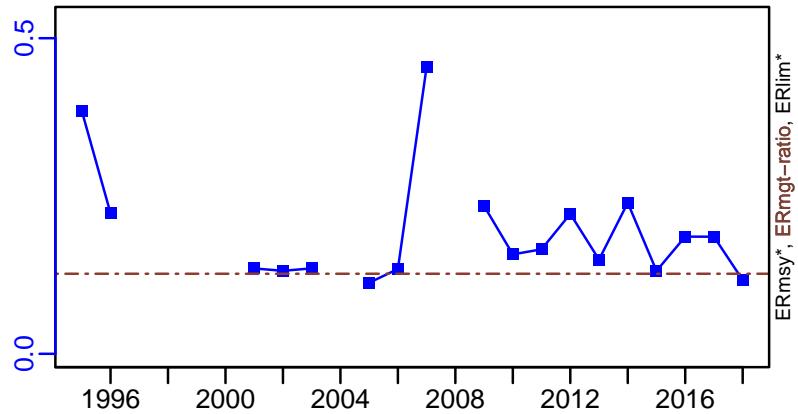
TN *



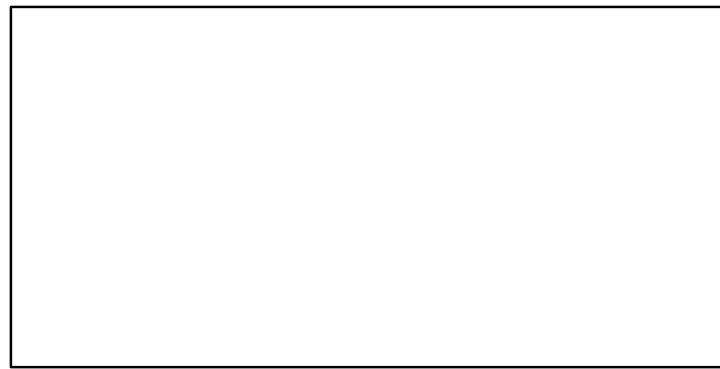
F-relative (1981–2020–ICESIMP2021–2)



ER-ratio (1981–2019–ICESIMP2021)



Recruits*

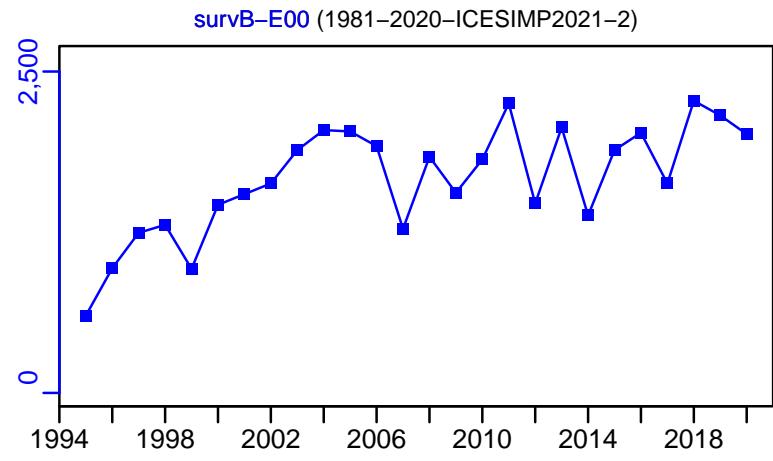
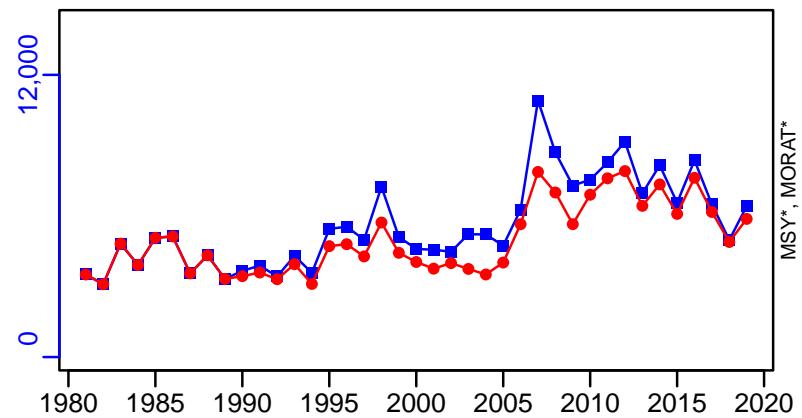


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | --- Lim BRP | * No Data |

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

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

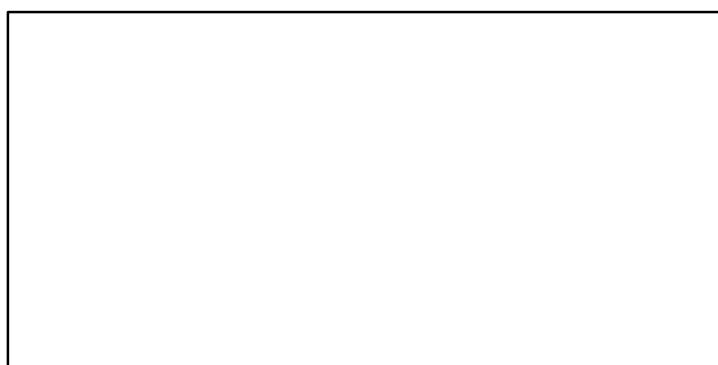
TAC*, Cpair*, Cadv*



EFFORT*



CPUE*



CdivMSY*



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

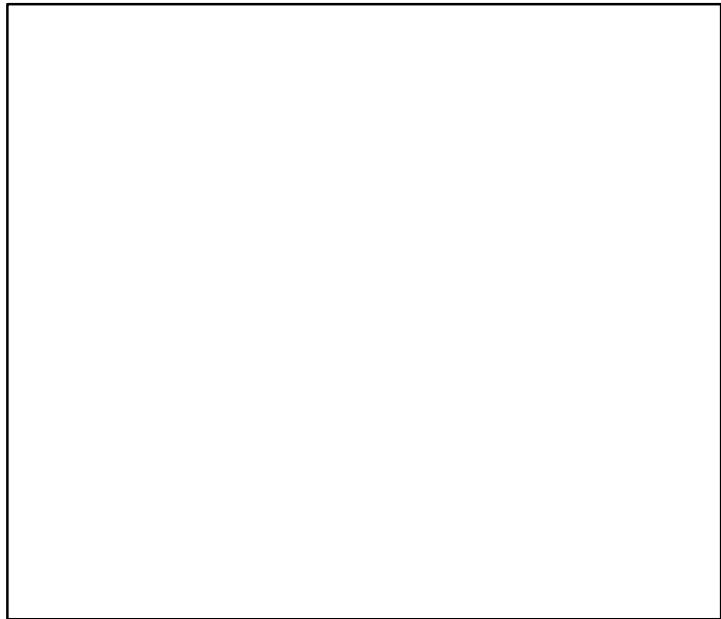
Norway lobster Irish Sea East (FU 14) [NEPHFU14]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU14-2000-2020-ICESIMP2021-2
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, 2020

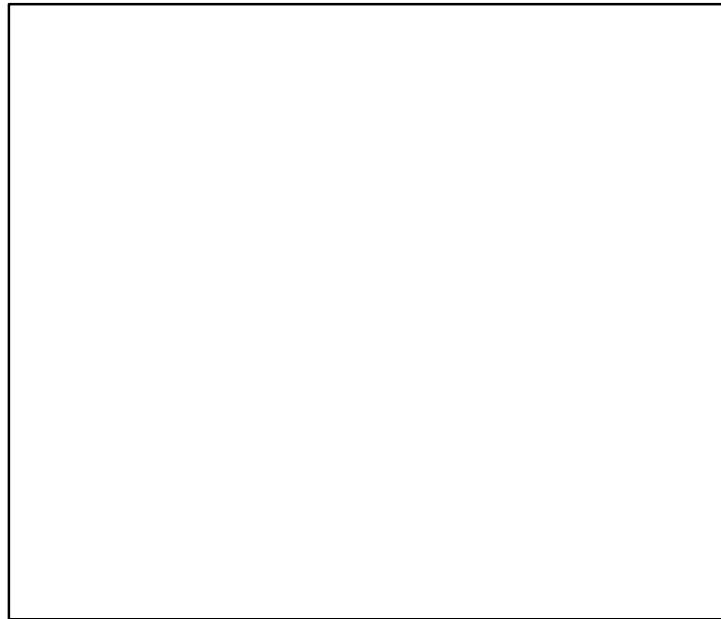
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	11
ERmsy	ERmsy-ratio	2016	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.11
ERmgt	ERmgt-ratio	2019	0.11
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	591	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2020	0.036	-	-
ER	ER-ratio	2019	0.026	-	-
TC	-	-	-		
TL	TL-MT	2020	0.27		
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	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.681		
ER/ERmgt	-	-	-		

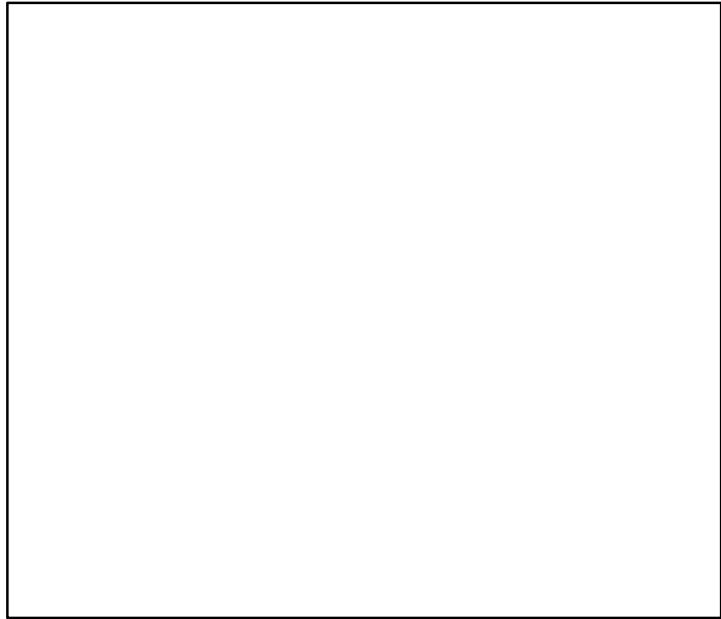
Kobe MSY*



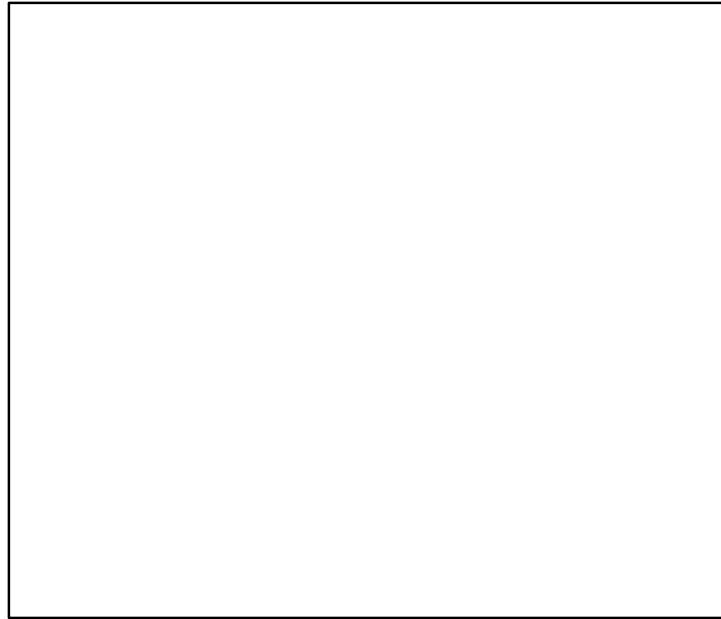
Kobe MGT*



Spawner Recruit*



Production*



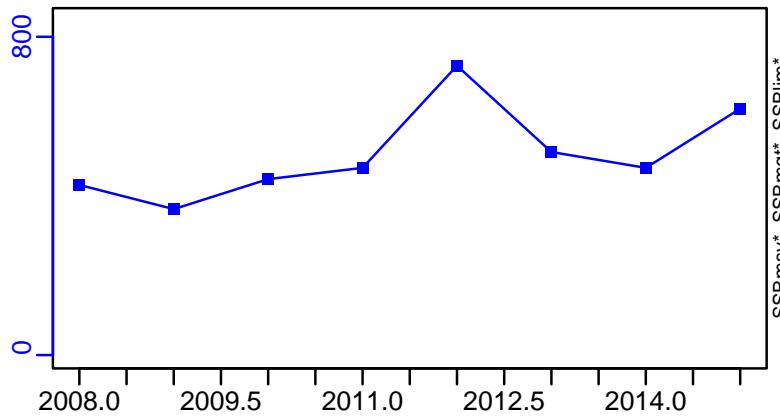
◆ Start Year ♦ End Year * No Data

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

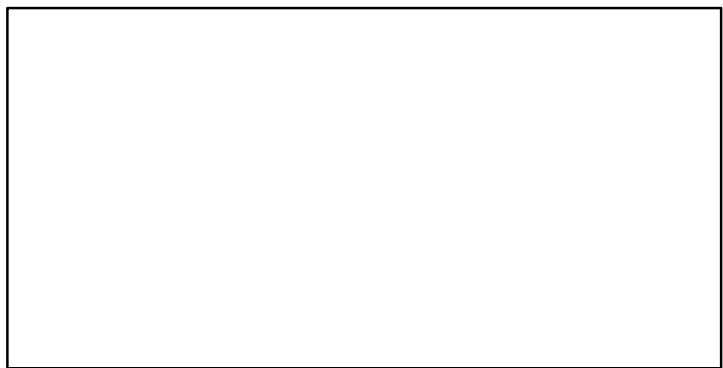
TB*



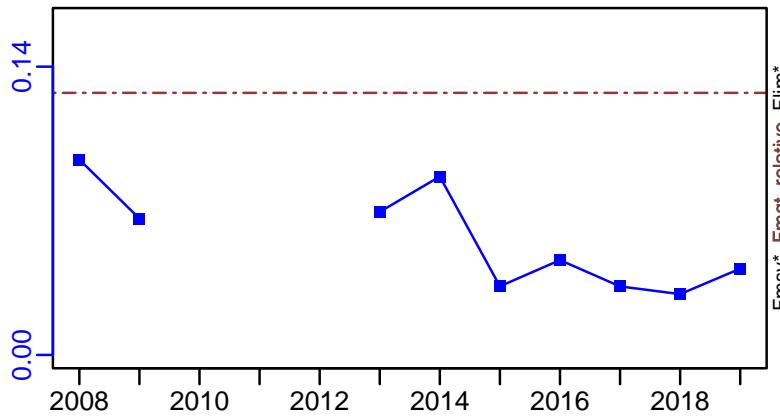
SSB-MT (2000–2015–ICESIMP2016)



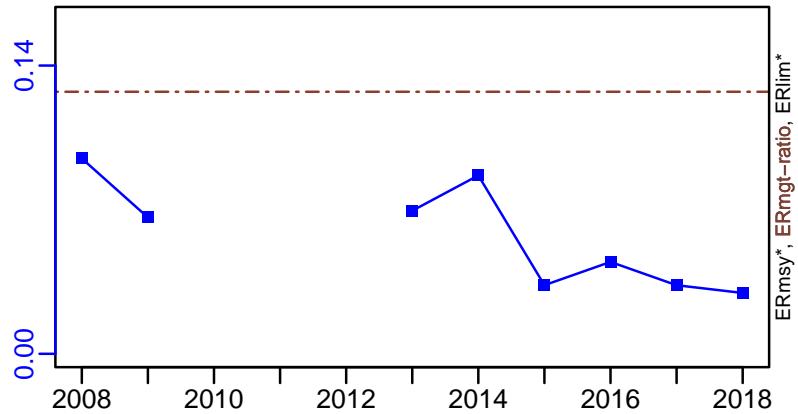
TN *



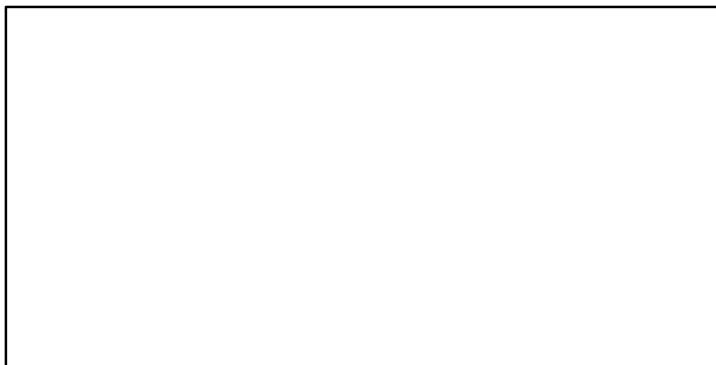
F-relative (2000–2020–ICESIMP2021–2)



ER-ratio (2000–2019–ICESIMP2021)



Recruits*

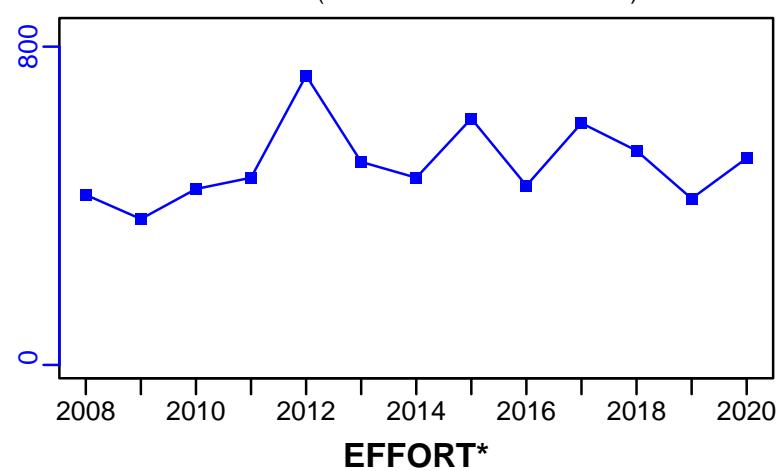
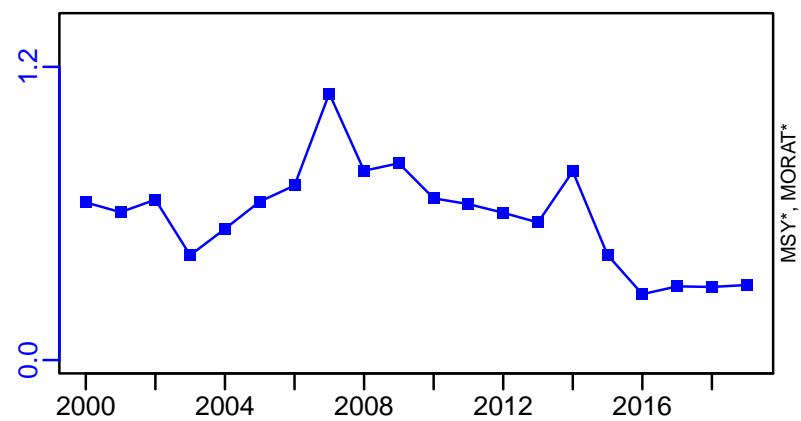


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

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

TL-MT, TC*, RecC* (2000–2020–ICESIMP2021-2)

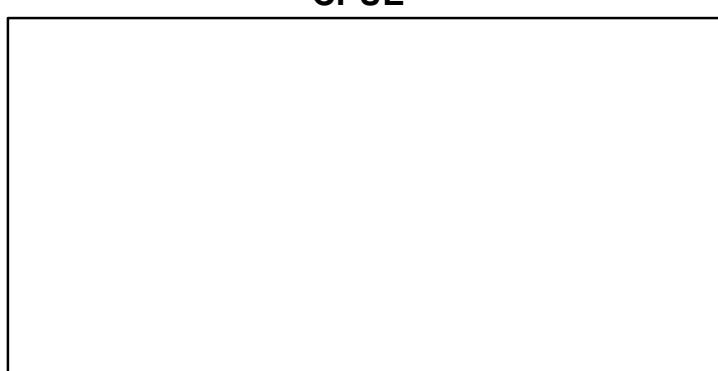
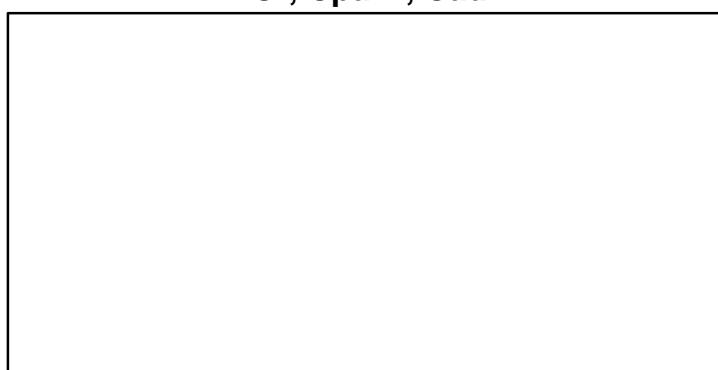
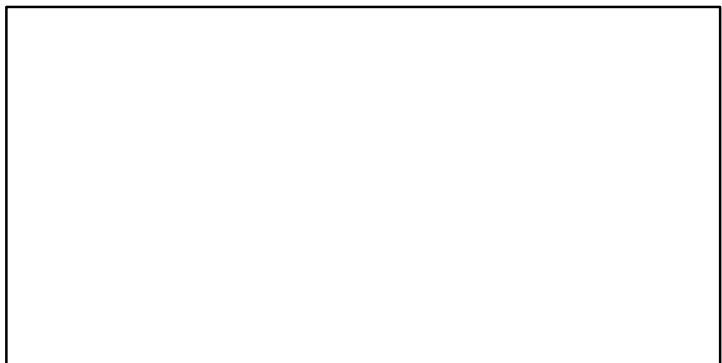
TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU15-1960-2020-ICESIMP2021-2
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, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	18.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.182
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	F-relative	2020	0.153	-	-	
ER	ER-ratio	2019	0.1	-	-	
TC	-	-	-			
TL	TL-MT	2020	7590			
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

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

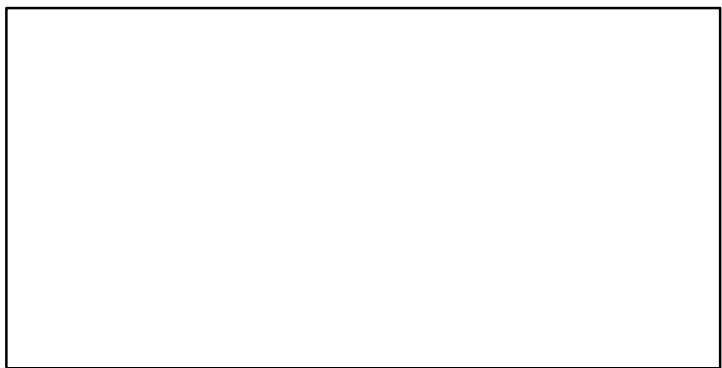
TB*



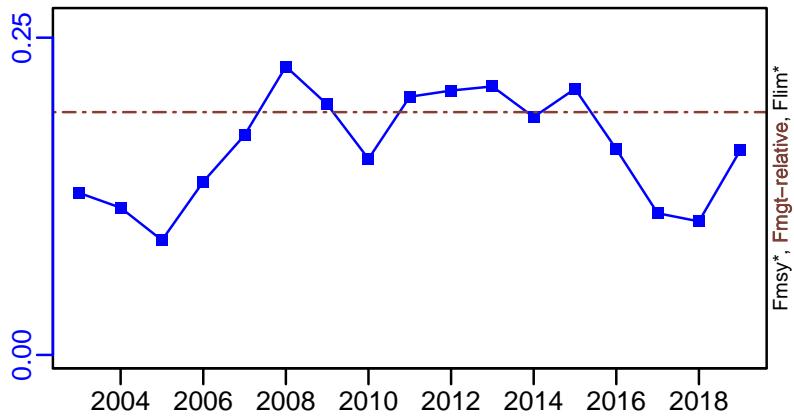
SSB*



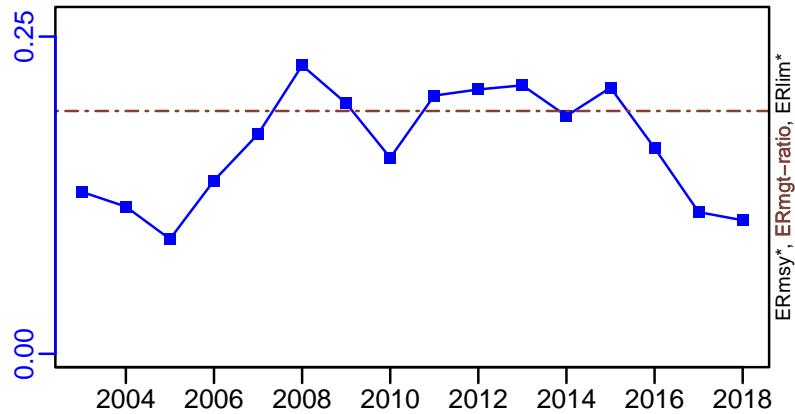
TN *



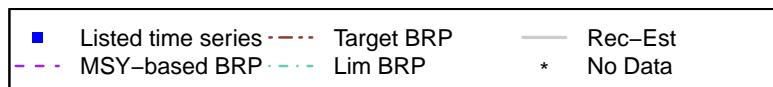
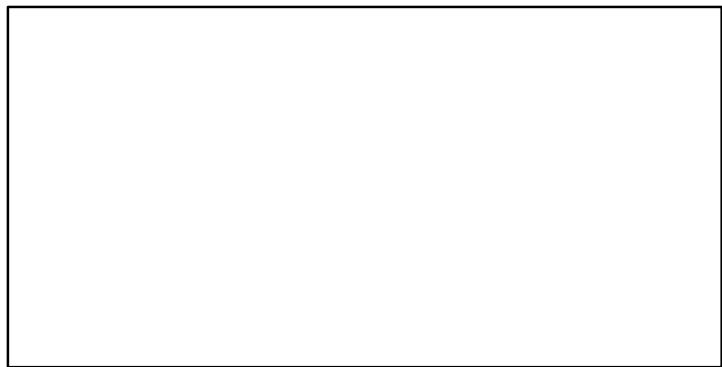
F-relative (1960–2020–ICESIMP2021–2)



ER-ratio (1960–2019–ICESIMP2021)



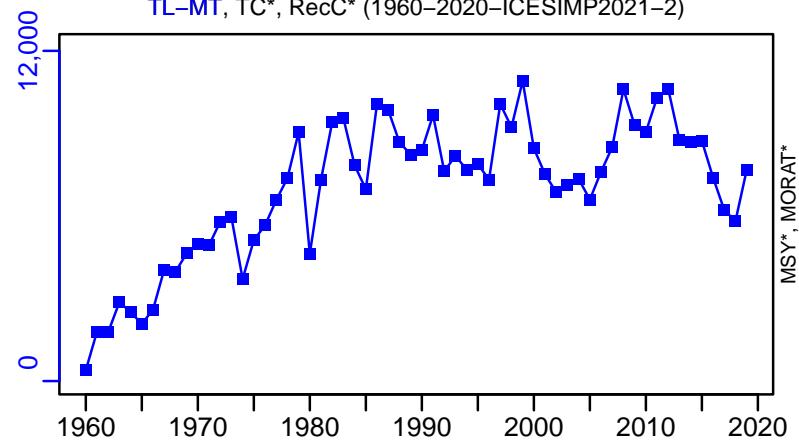
Recruits*



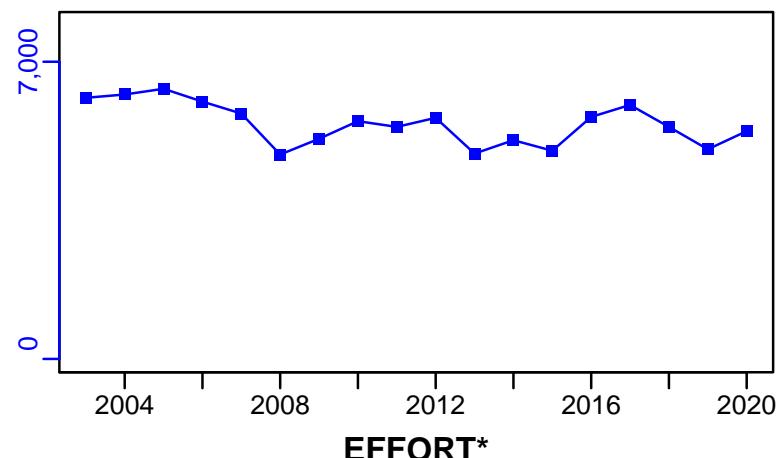
Norway lobster Irish Sea West (FU 15) [NEPHFU15]

TL-MT, TC*, RecC* (1960–2020–ICESIMP2021–2)

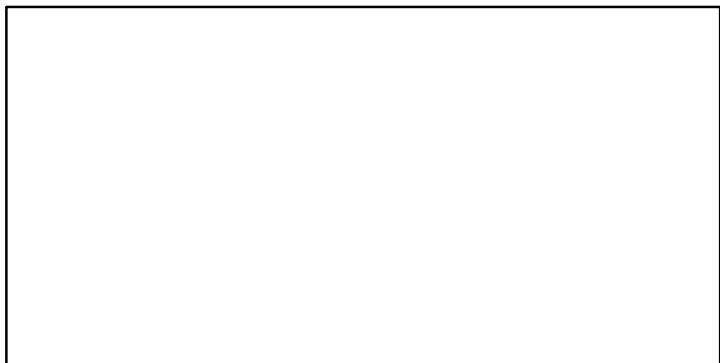
TAC*, Cpair*, Cadv*



CPUE*



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-NEPHFU16-1979-2020-ICESIMP2021-2
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, 2020, 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-relative	2020	0.062
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-relative	2020	0.042	-	-	
ER	ER-ratio	2019	0.059	-	-	
TC	-	-	-			
TL	TL-MT	2020	2250			
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*

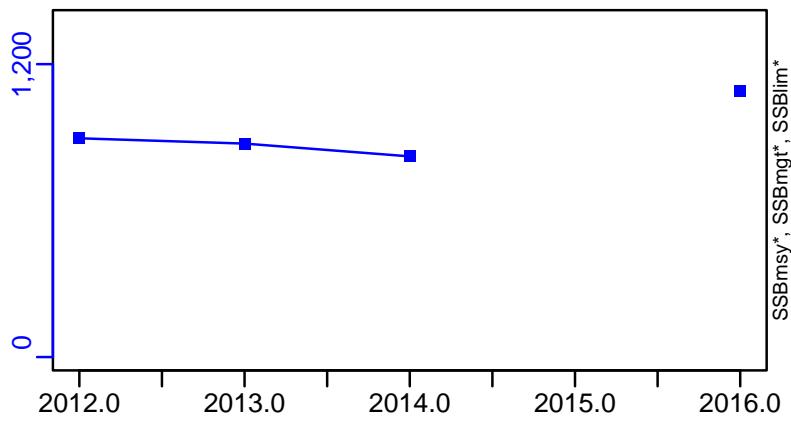
◆ Start Year ◆ End Year * No Data

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

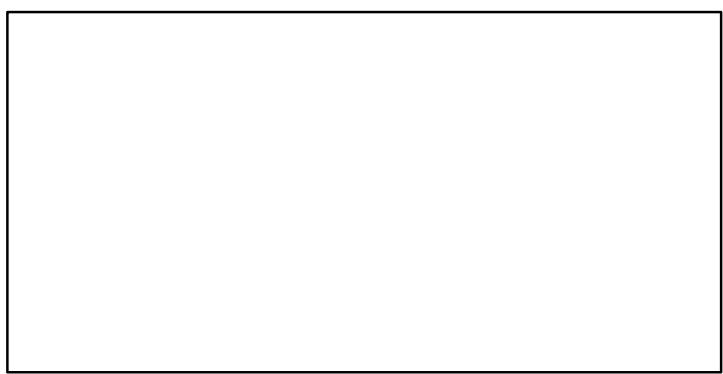
TB*



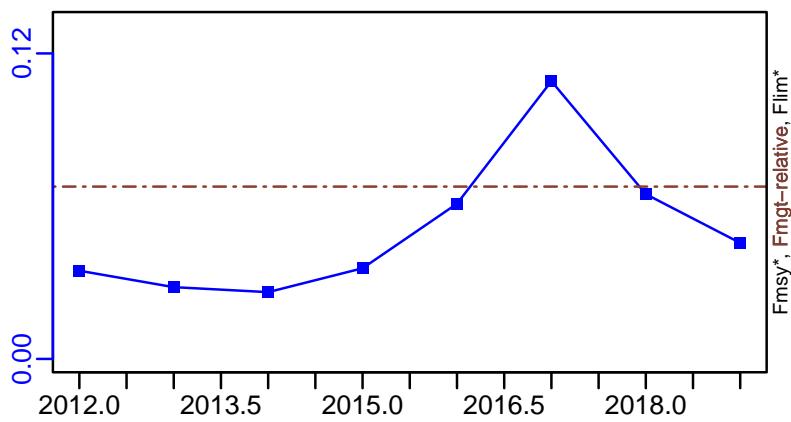
SSB-MT (1986–2016–ICESIMP2018)



TN *

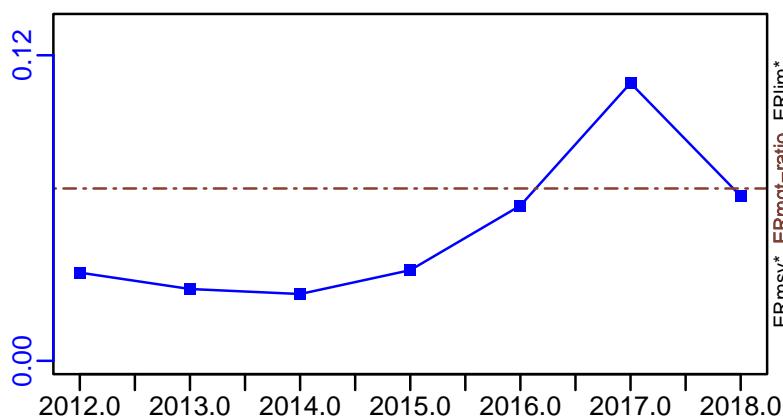


F-relative (1979–2020–ICESIMP2021–2)

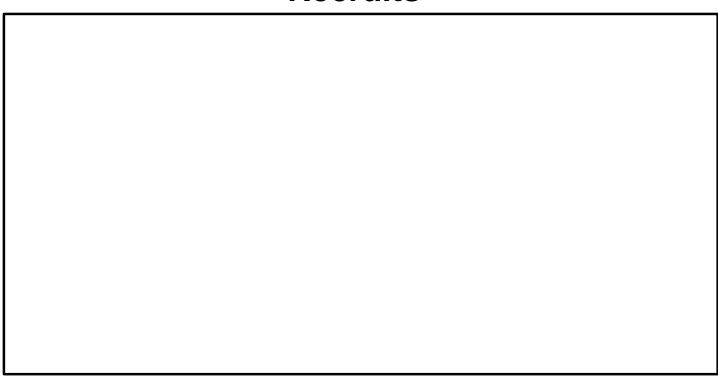


ER-ratio (1979–2019–ICESIMP2021)

ER_{mgt}* , ER_{mgt}-ratio, ER_{lim}*



Recruits*

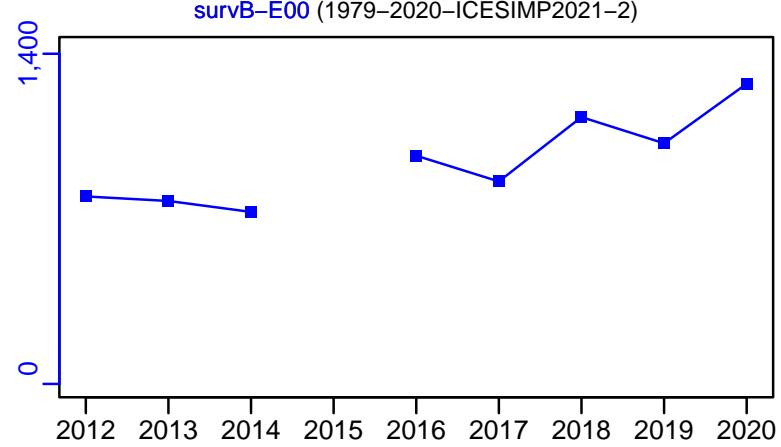
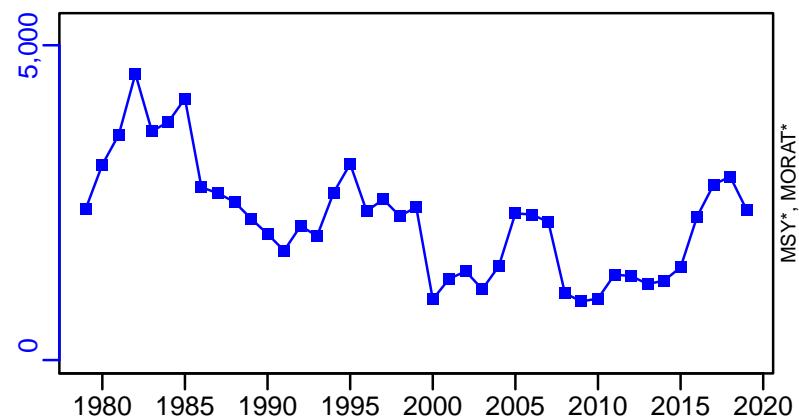


- Listed time series - - - Target BRP — Rec-Est
- MSY-based BRP - - - Lim BRP * No Data

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

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

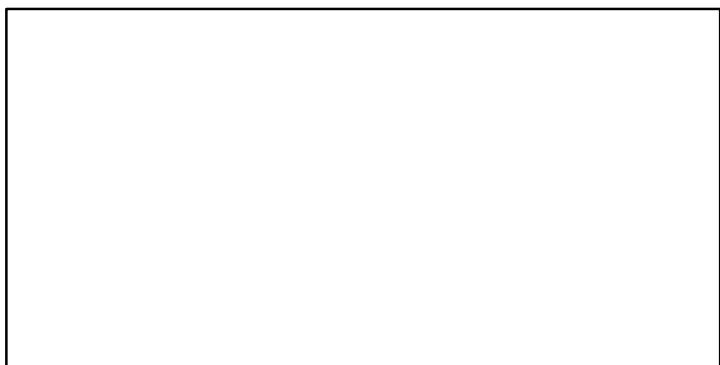
TAC*, Cpair*, Cadv*



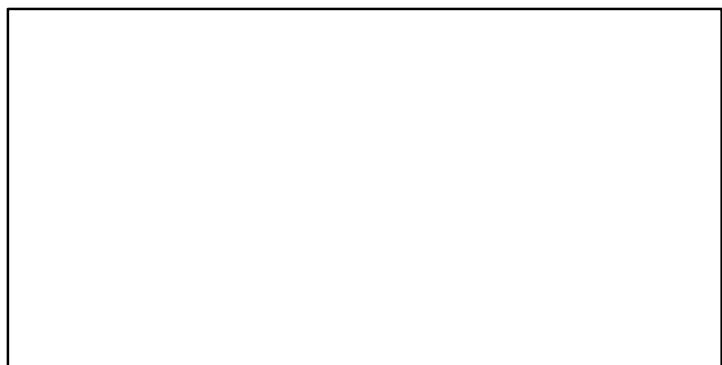
CPUE*



EFFORT*



CdivMSY*



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

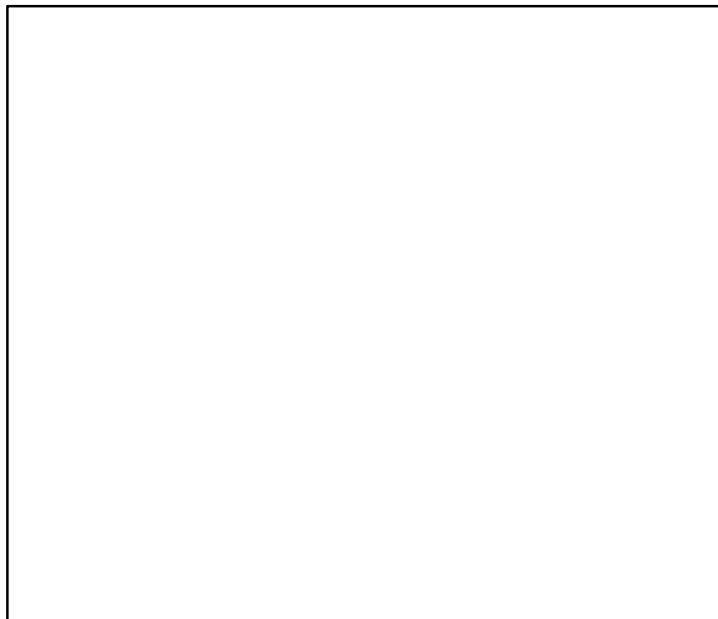
Norway lobster Aran Grounds (FU 17) [NEPHFU17]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU17-1974-2020-ICESIMP2021-2
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, 2020, 2016

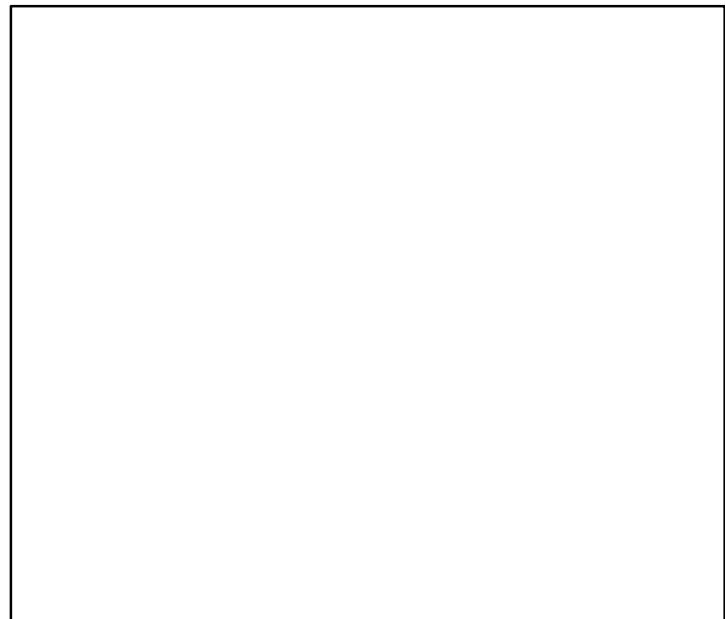
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	8.5
ERmsy	ERmsy-ratio	2016	0.085
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.085
ERmgt	ERmgt-ratio	2019	0.085
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	379	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2020	0.019	-	-
ER	ER-ratio	2019	0.054	-	-
TC	-	-	-		
TL	TL-MT	2020	167		
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	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.4		
ER/ERmgt	-	-	-		

Kobe MSY*



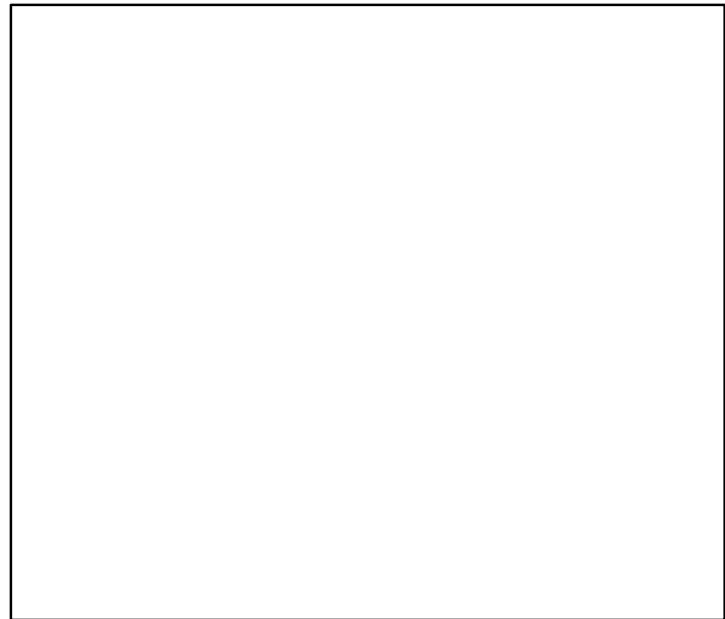
Kobe MGT*



Spawner Recruit*



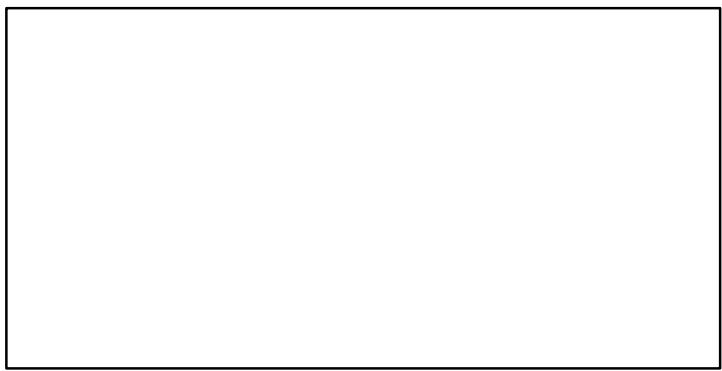
Production*



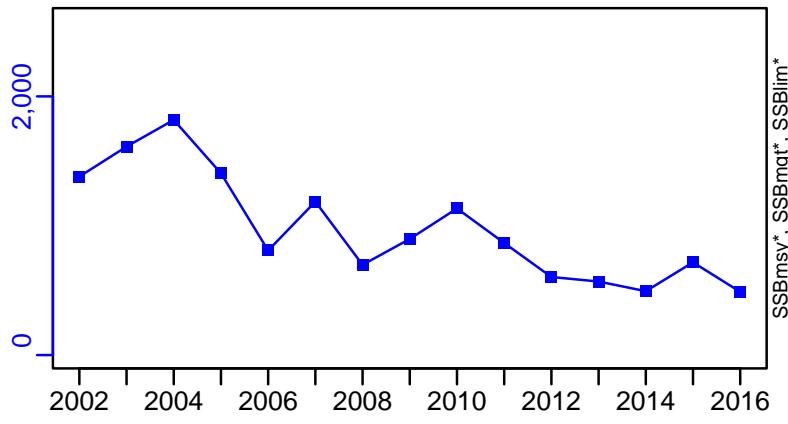
◆ Start Year ♦ End Year * No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

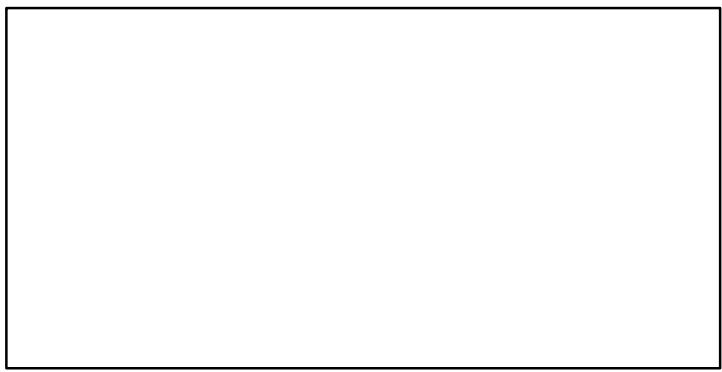
TB*



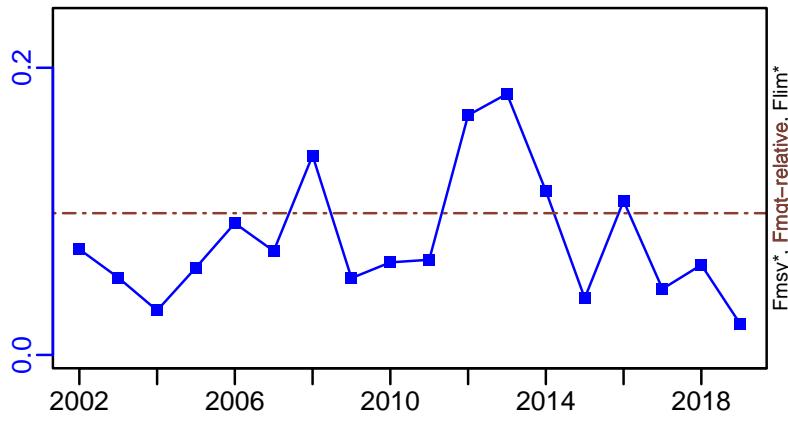
SSB-MT (1974–2016–ICESIMP2018)



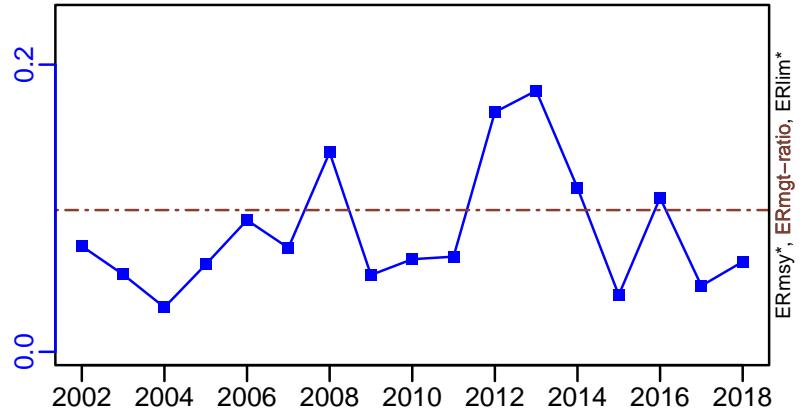
TN *



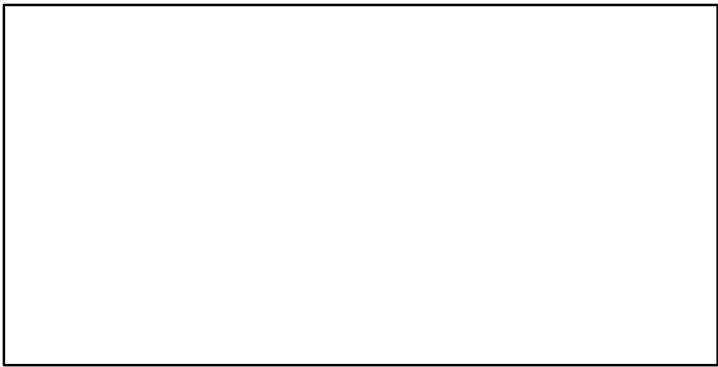
F-relative (1974–2020–ICESIMP2021–2)



ER-ratio (1974–2019–ICESIMP2021)



Recruits*

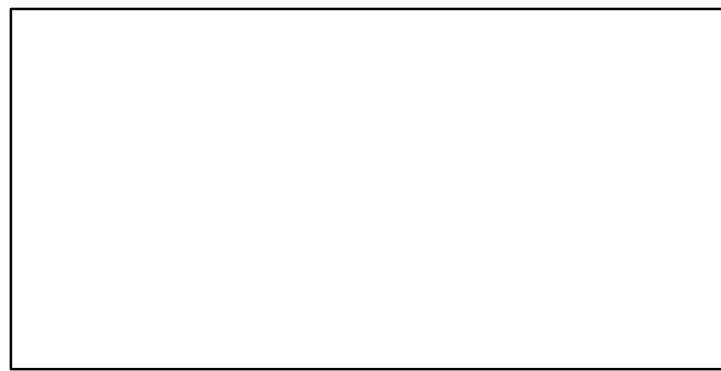
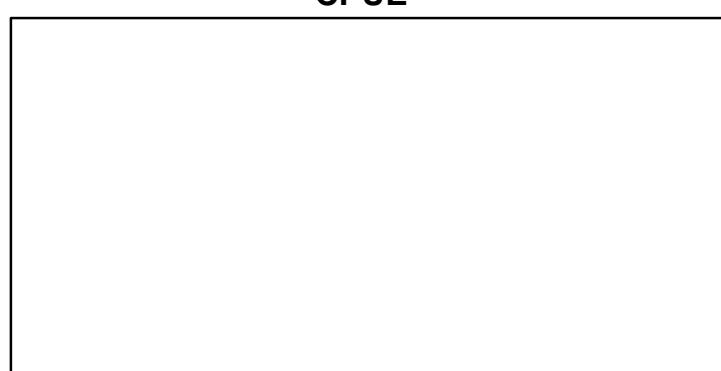
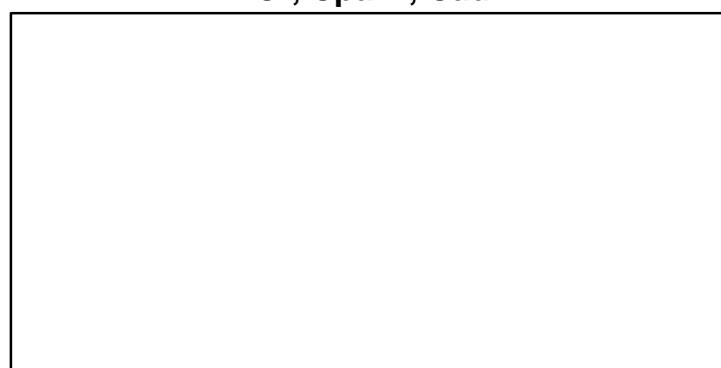
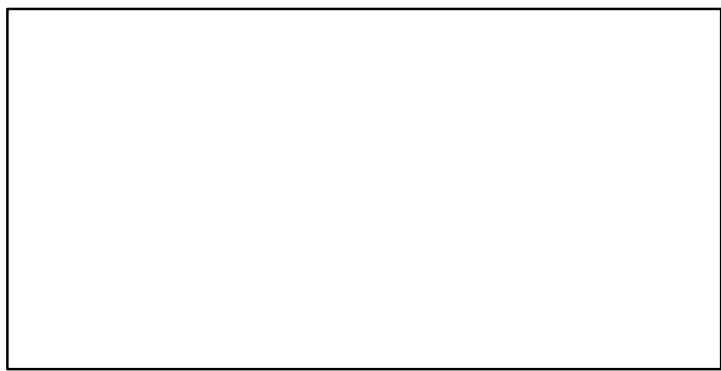
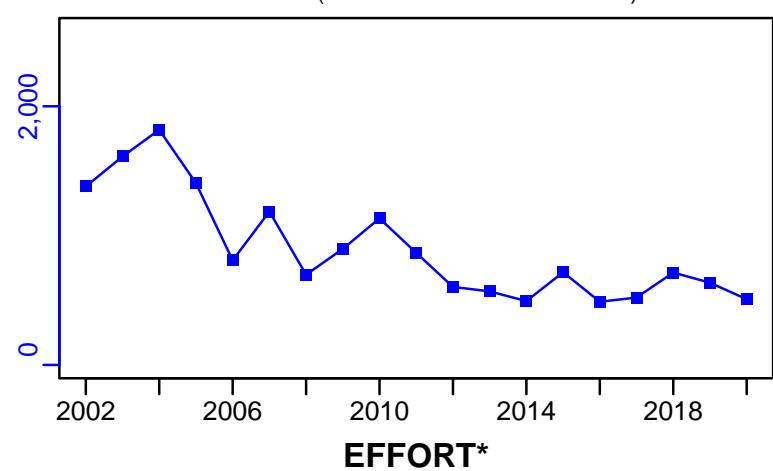
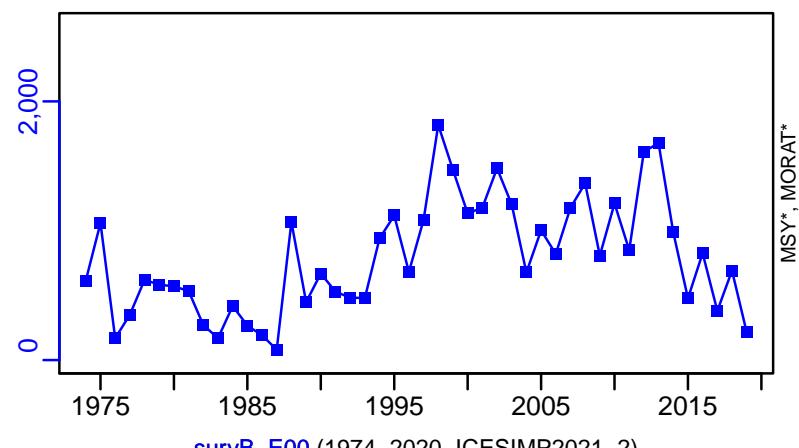


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

TL-MT, TC*, RecC* (1974–2020–ICESIMP2021-2)

TAC*, Cpair*, Cadv*



■ 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-NEPHFU19-1989-2020-ICESIMP2021-2
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, 2020, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.093
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.069
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	F-relative	2020	0.033	-	-	
ER	ER-ratio	2019	0.062	-	-	
TC	-	-	-			
TL	TL-MT	2020	249			
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*



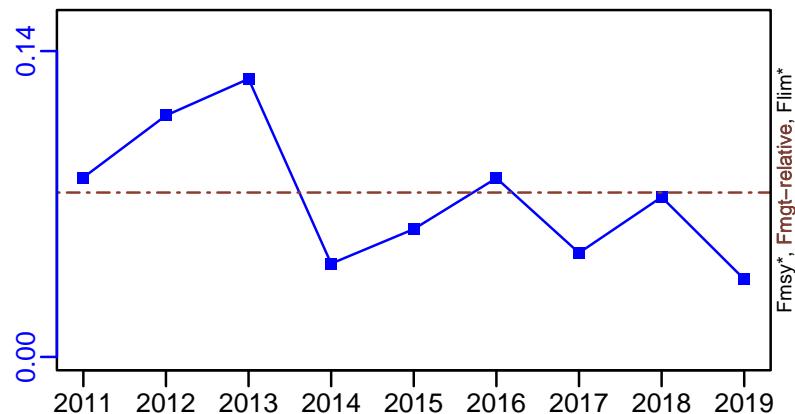
SSB*



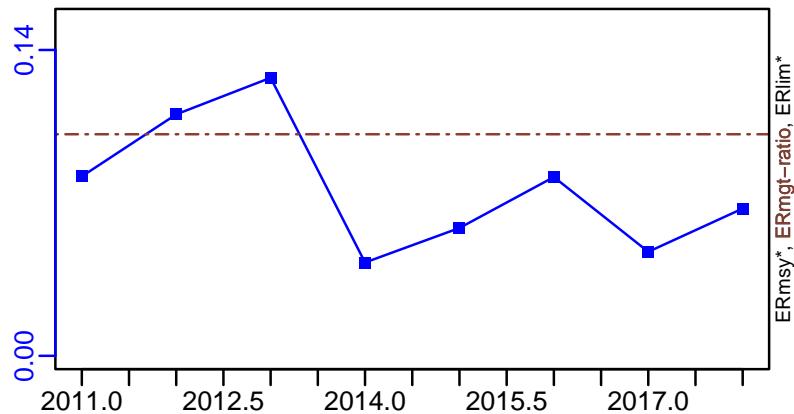
TN *



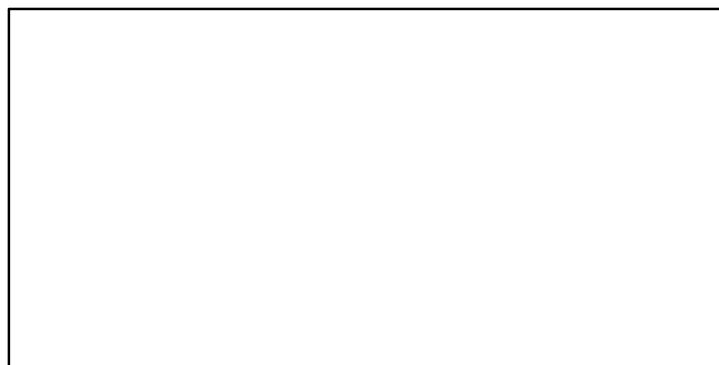
F-relative (1989–2020–ICESIMP2021–2)



ER-ratio (1989–2019–ICESIMP2021)



Recruits*

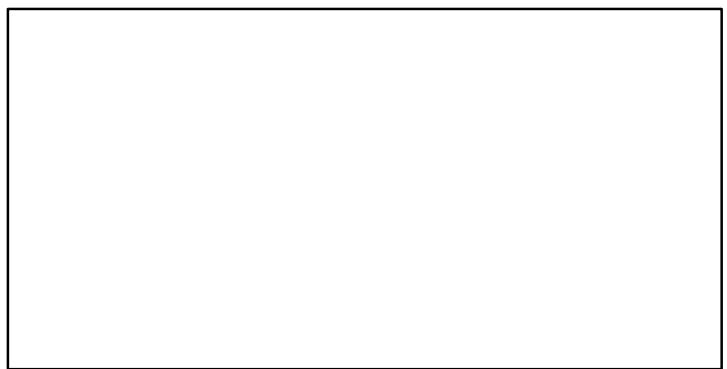
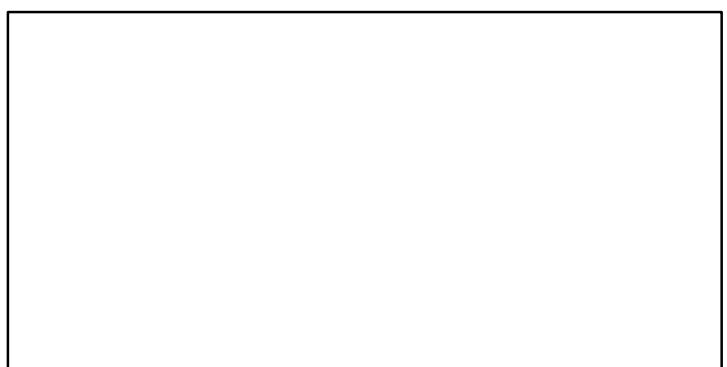
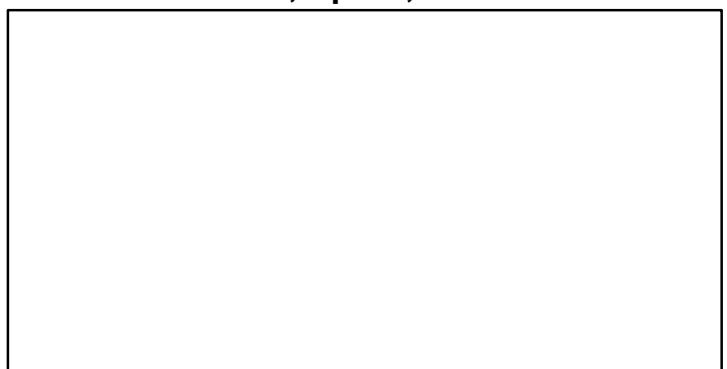
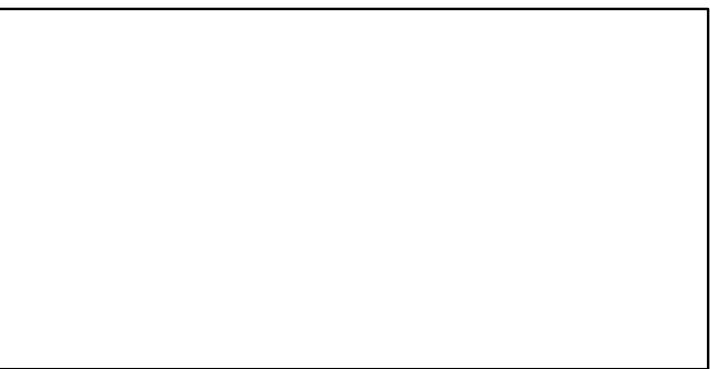
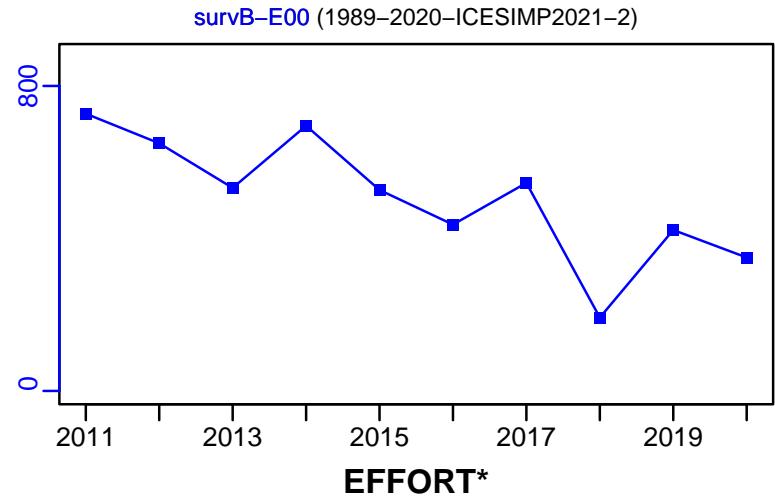
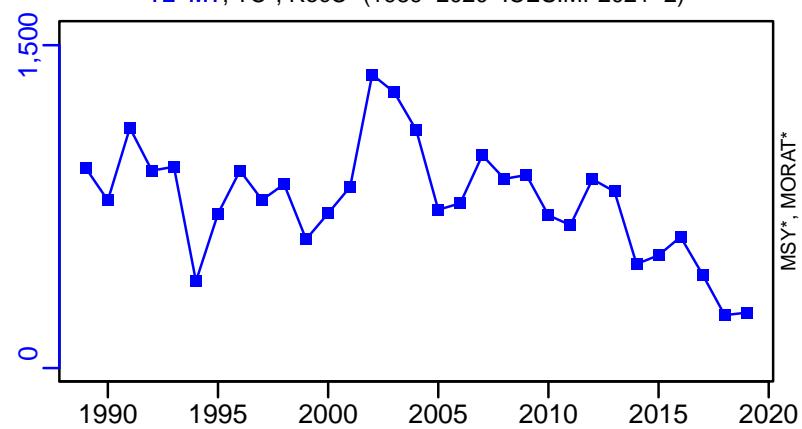


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

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

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

TAC*, Cpair*, Cadv*



■ 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-NEPHFU2021-1995-2020-ICESIMP2021-2
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, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.06
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	F-relative	2020	0.212	-	-	
ER	ER-ratio	2019	0.03	-	-	
TC	-	-	-			
TL	TL-MT	2020	3000			
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*

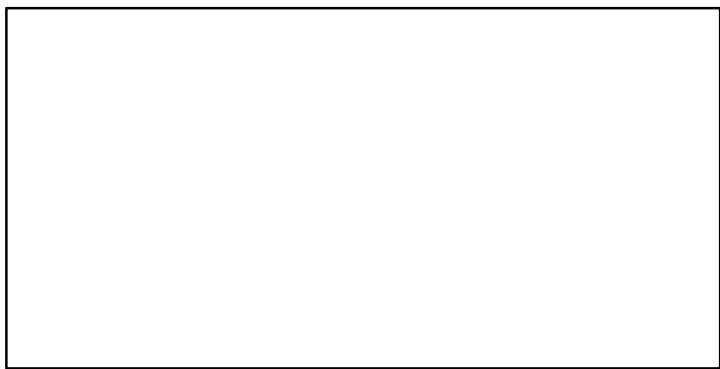
Kobe MGT*

Spawner Recruit*

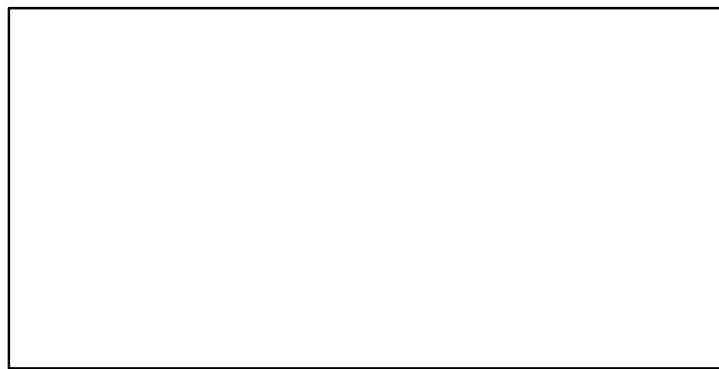
Production*

◆ Start Year ♦ End Year * No Data

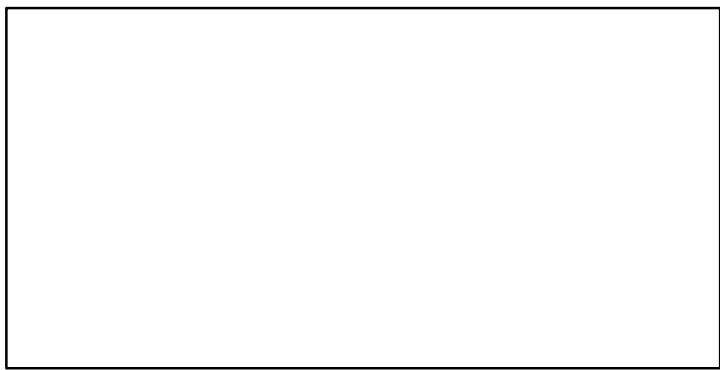
TB*



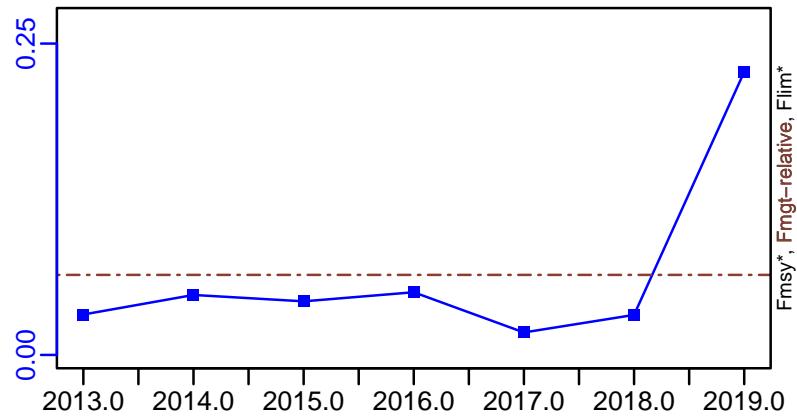
SSB*



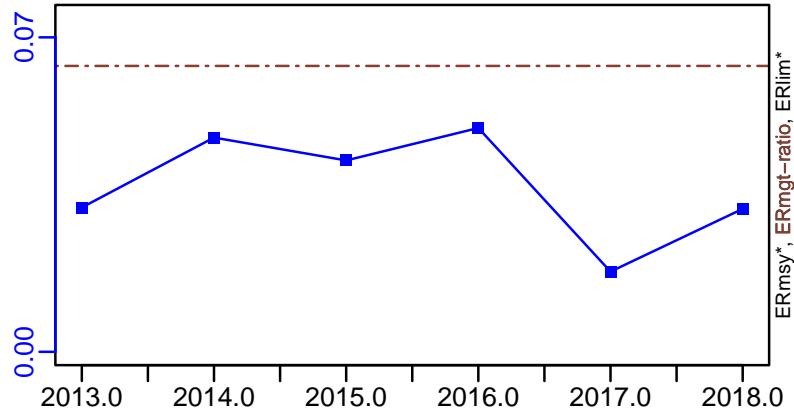
TN *



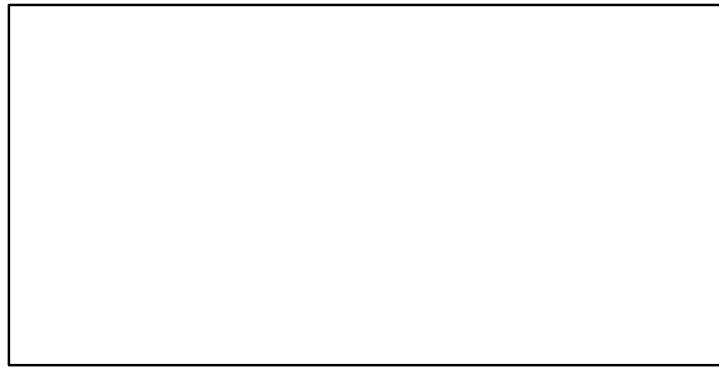
F-relative (1995–2020–ICESIMP2021–2)



ER-ratio (1995–2019–ICESIMP2021)



Recruits*

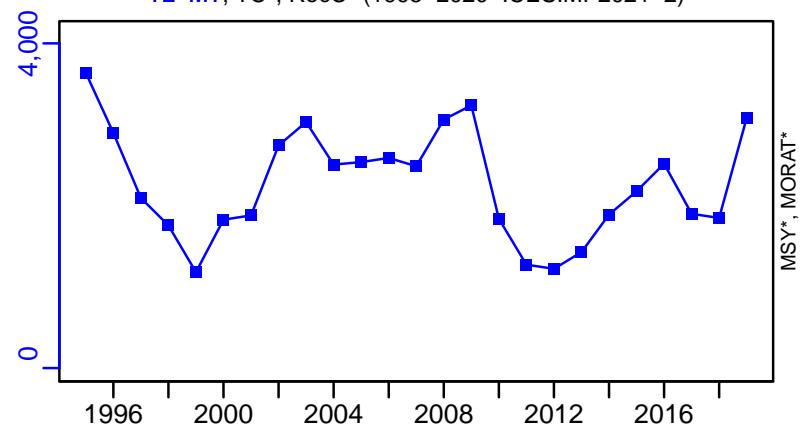


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

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

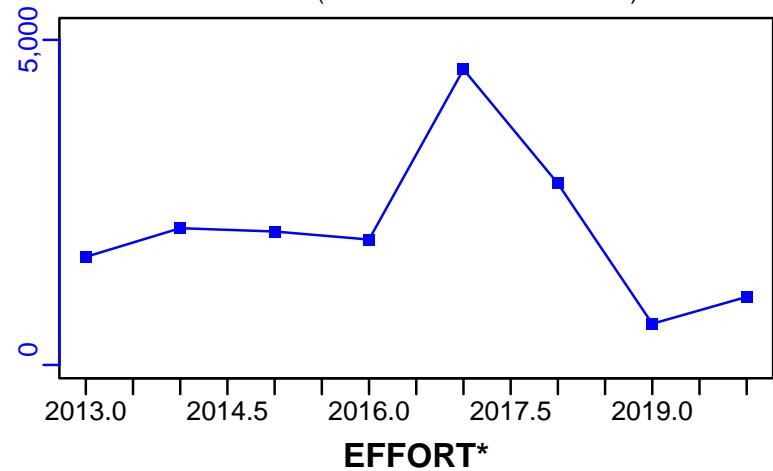
TL-MT, TC*, RecC* (1995–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB-E00 (1995–2020–ICESIMP2021–2)

CPUE*



EFFORT*

CdivMSY*



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

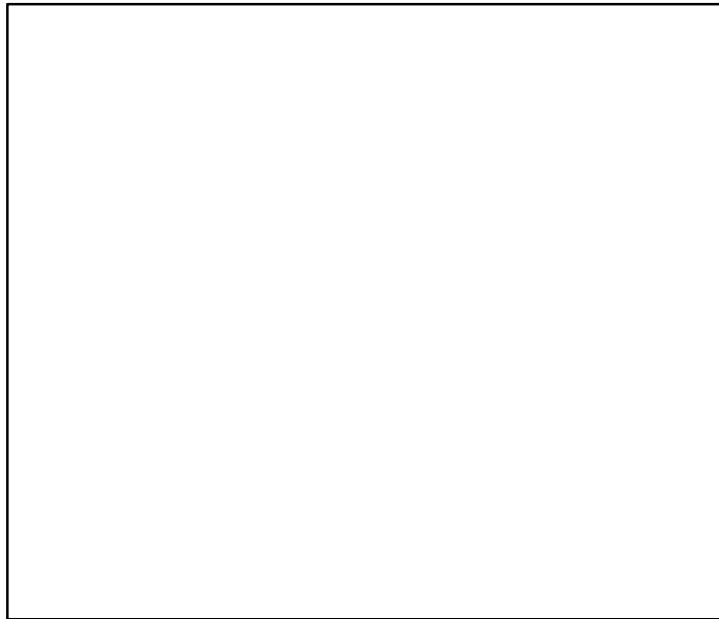
Norway lobster Smalls (FU 22) [NEPHFU22]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU22-1999-2020-ICESIMP2021-2
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, 2020

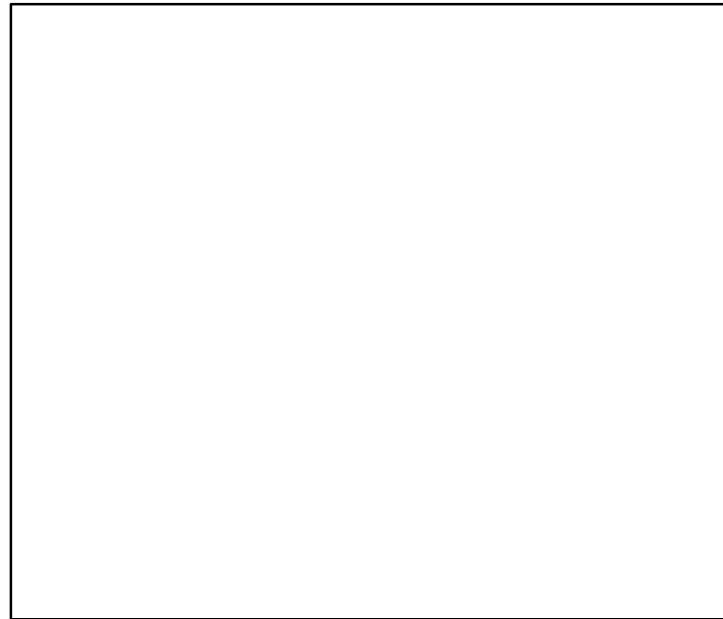
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.128
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.128
ERmgt	ERmgt-ratio	2019	0.128
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2020	0.085	-	-	
ER	ER-ratio	2019	0.138	-	-	
TC	-	-	-			
TL	TL-MT	2020	2080			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.781			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

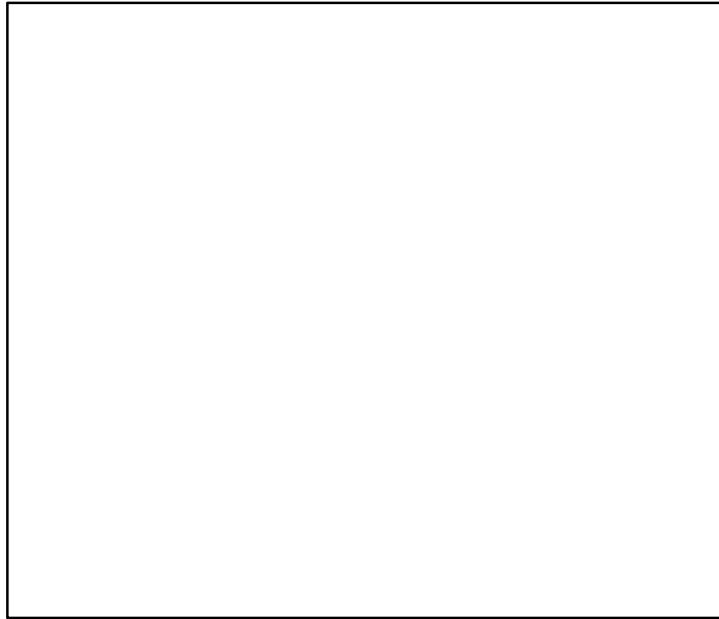
Kobe MSY*



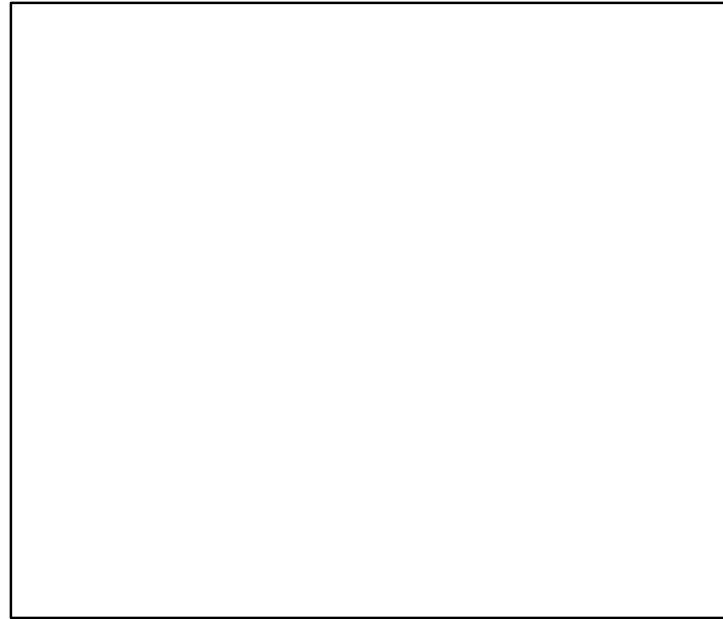
Kobe MGT*



Spawner Recruit*



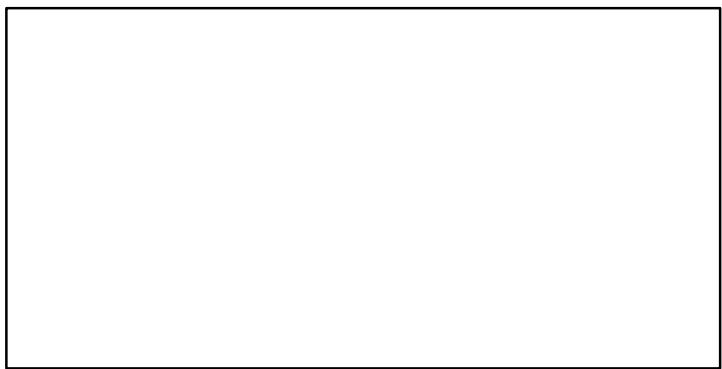
Production*



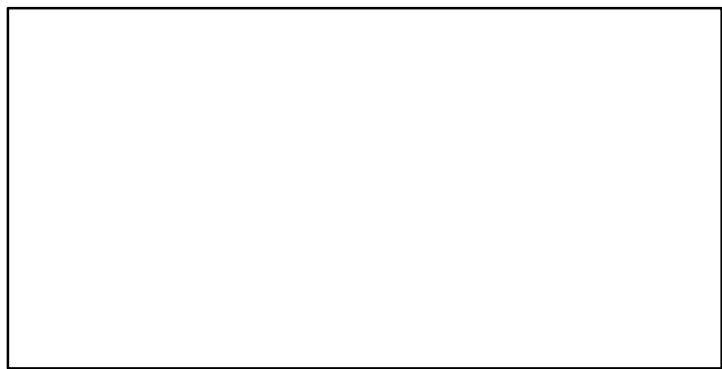
◆ Start Year ◆ End Year * No Data

Norway lobster Small (FU 22) [NEPHFU22]

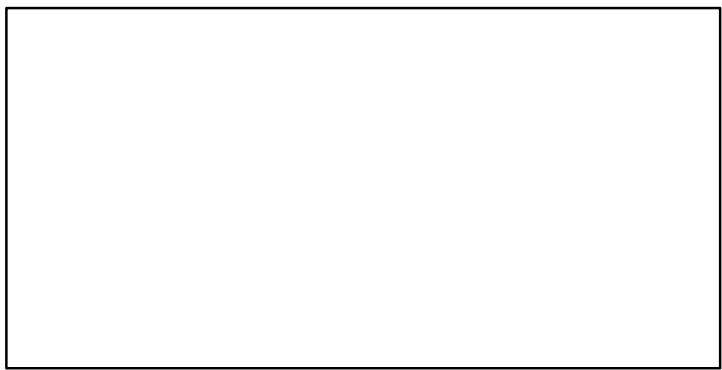
TB*



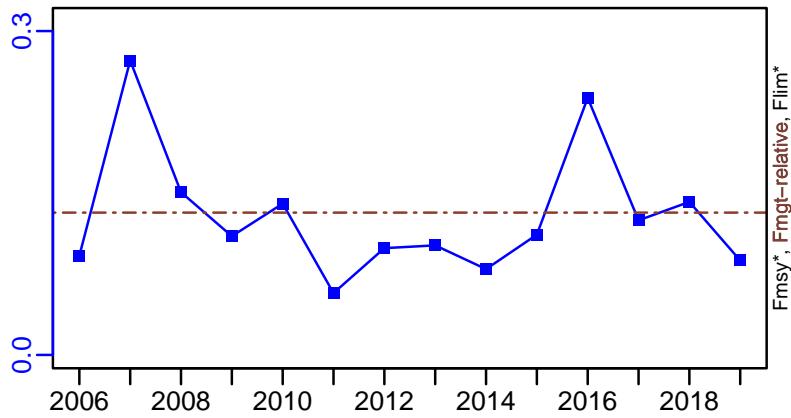
SSB*



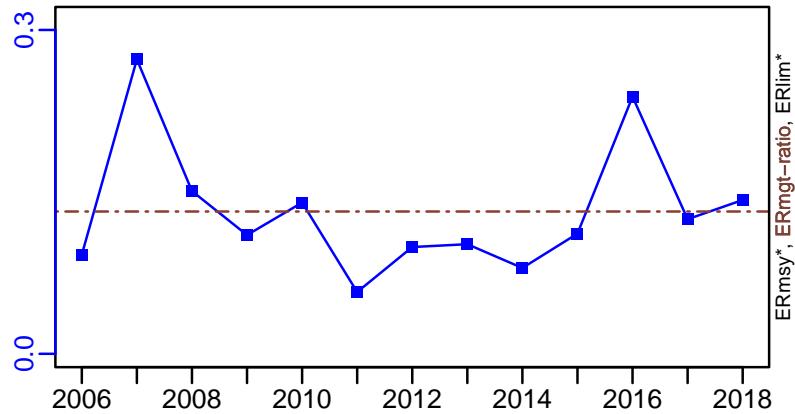
TN *



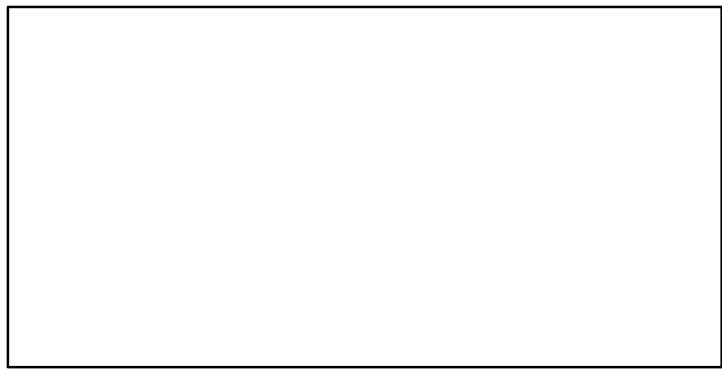
F-relative (1999–2020–ICESIMP2021–2)



ER-ratio (1999–2019–ICESIMP2021)



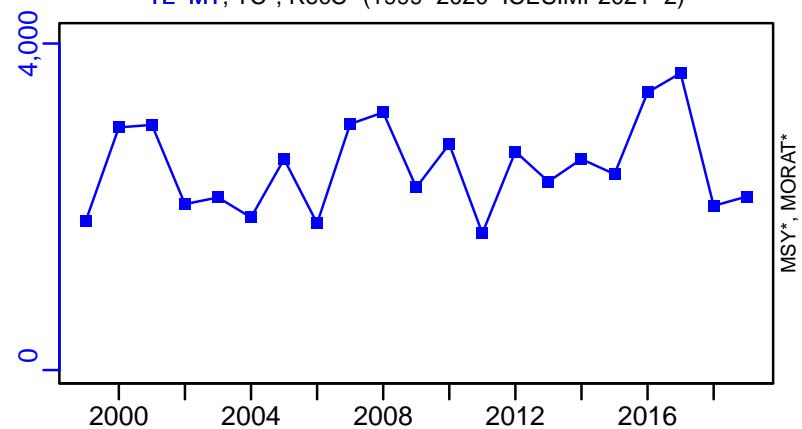
Recruits*



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

Norway lobster Small (FU 22) [NEPHFU22]

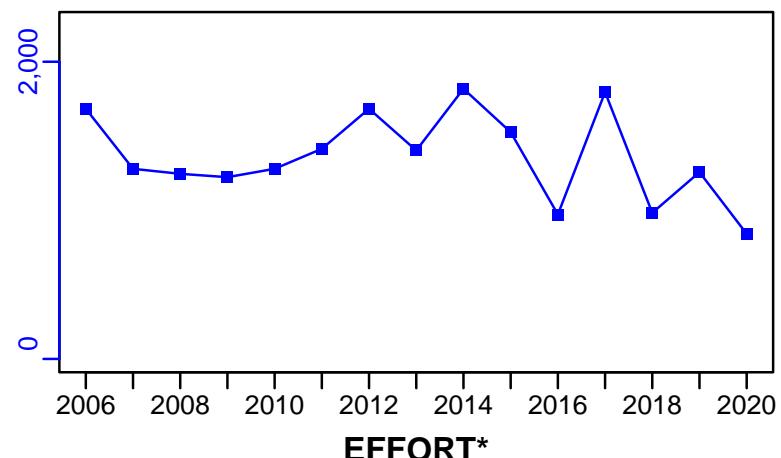
TL-MT, TC*, RecC* (1999–2020–ICESIMP2021–2)



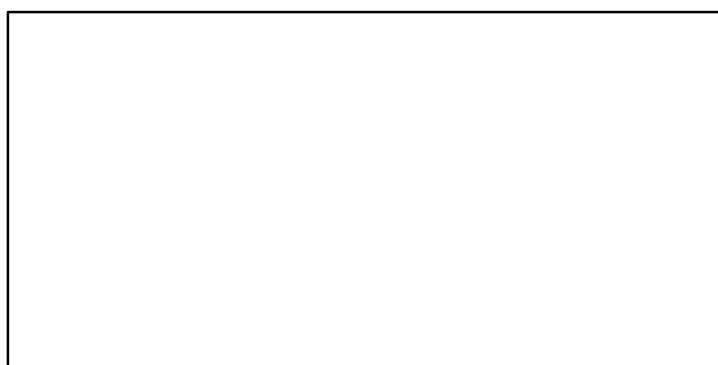
TAC*, Cpair*, Cadv*



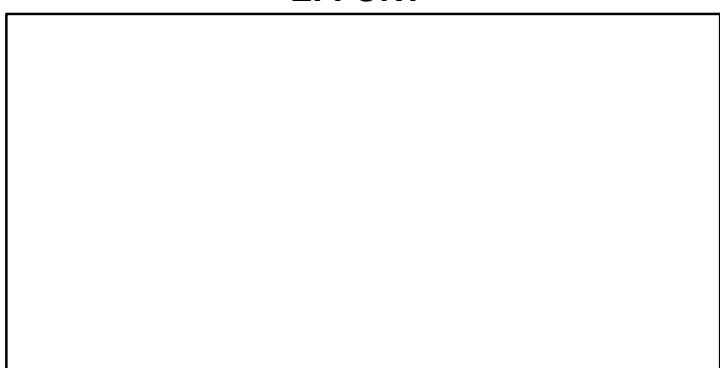
survB-E00 (1999–2020–ICESIMP2021–2)



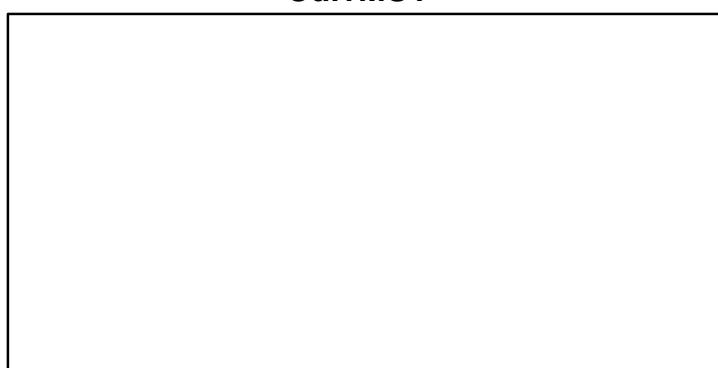
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ■ 1st listed time series ● 2nd listed time series | <ul style="list-style-type: none"> ▲ 3rd listed time series - - - MSY | <ul style="list-style-type: none"> — MORAT * No Data |
|--|---|--|

Norway lobster North Galicia (FU 25) [NEPHFU25]

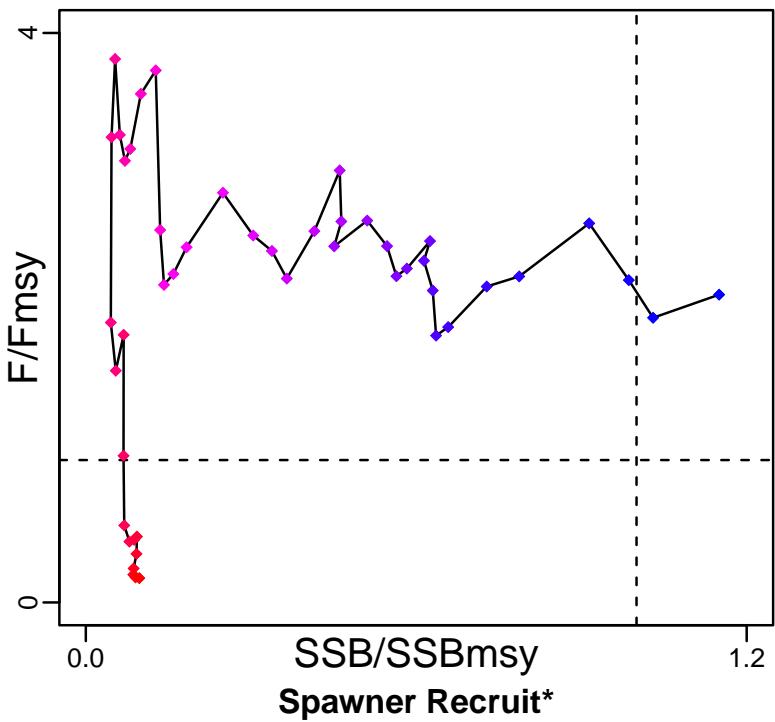
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU25-1975-2021-ICESIMP2021-2
Area	North Galicia (FU 25)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2018, 2021

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

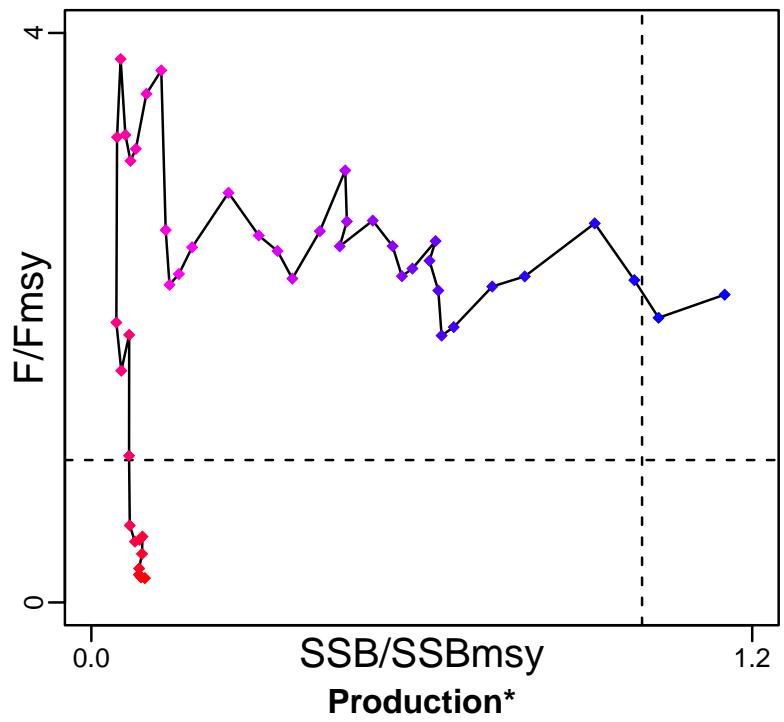
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2021	2.97			
TL	TL-MT	2021	2			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	0.097			
F/Fmsy	FdivFmsy-dimensionless	2021	0.171			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Norway lobster North Galicia (FU 25) [NEPHFU25]

Kobe MSYpref (1975–2021–ICESIMP2021–2)



Kobe MGTpref (1975–2021–ICESIMP2021–2)



◆ Start Year	◆ End Year	*	No Data
--------------	------------	---	---------

Norway lobster North Galicia (FU 25) [NEPHFU25]

TB*



SSB*



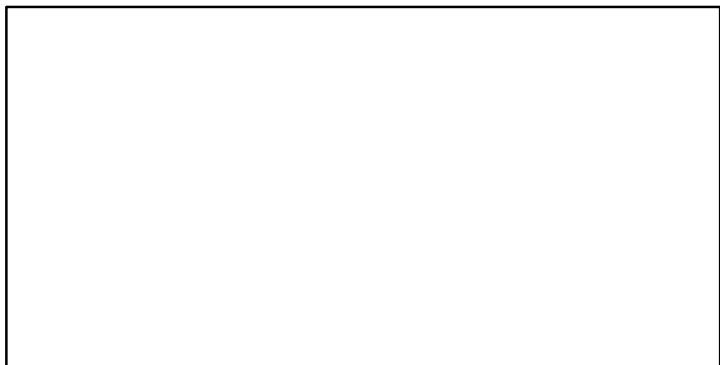
TN *



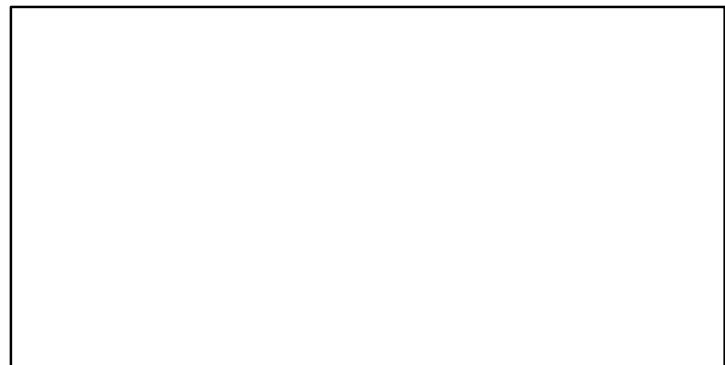
F*



ER*



Recruits*

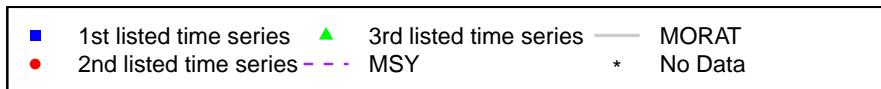
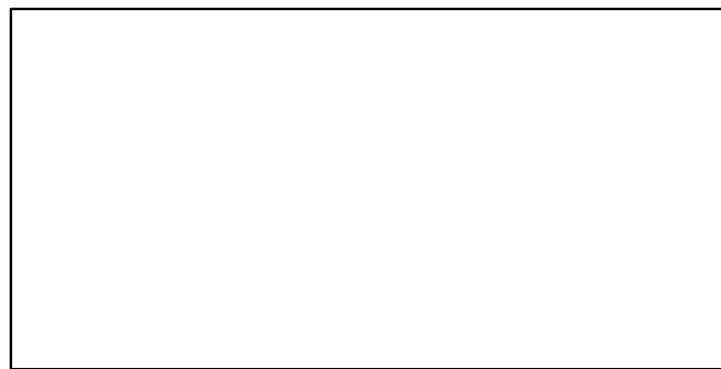
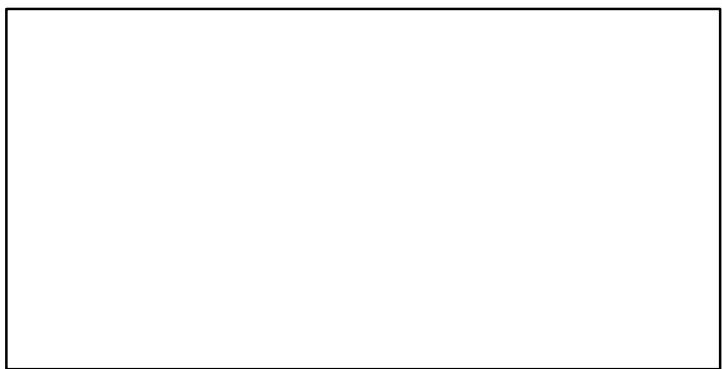
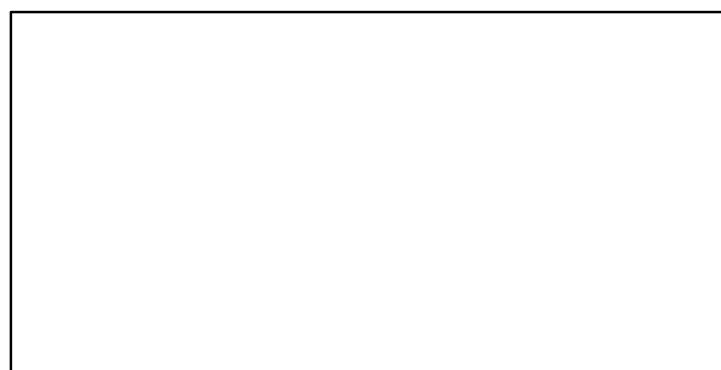
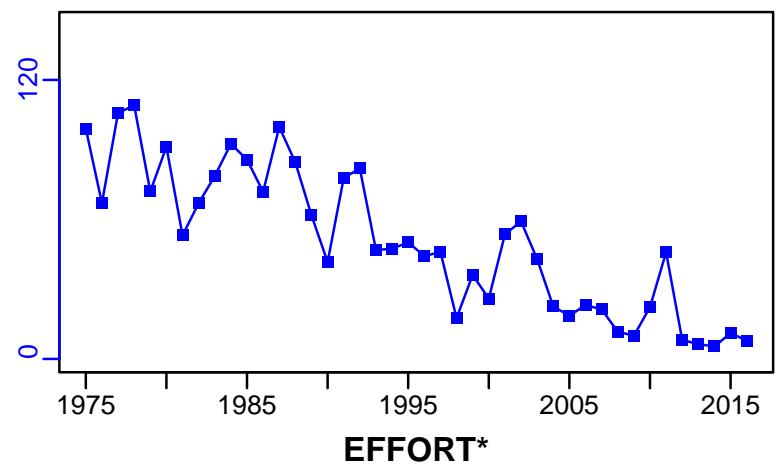
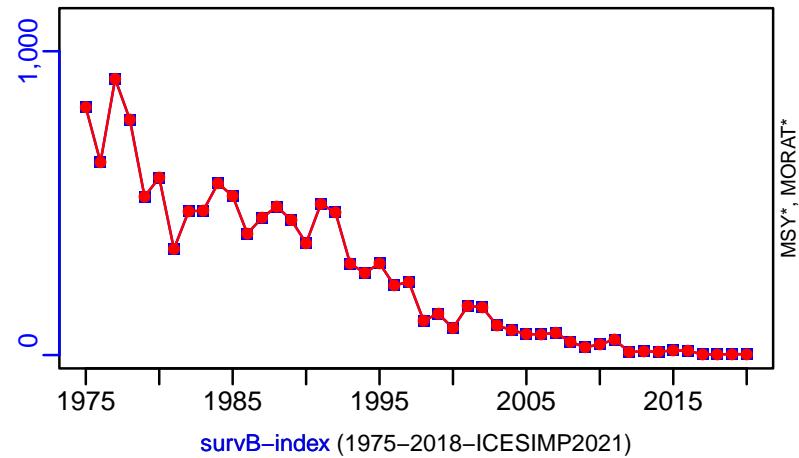


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Norway lobster North Galicia (FU 25) [NEPHFU25]

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

TAC*, Cpair*, Cadv*



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

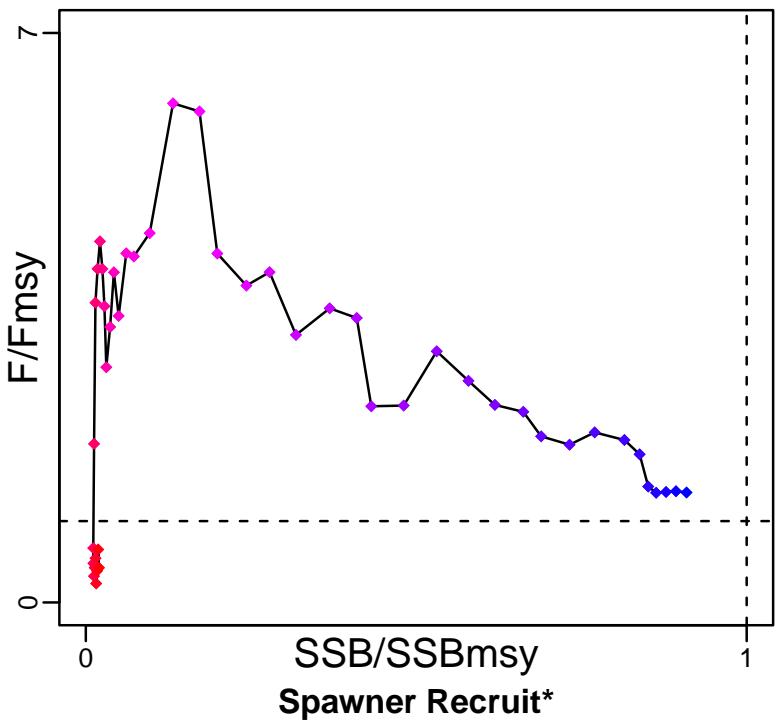
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2627-1975-2021-ICESIMP2021-2
Area	West Galicia and North Portugal (FU 26-27)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2018, 2021

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

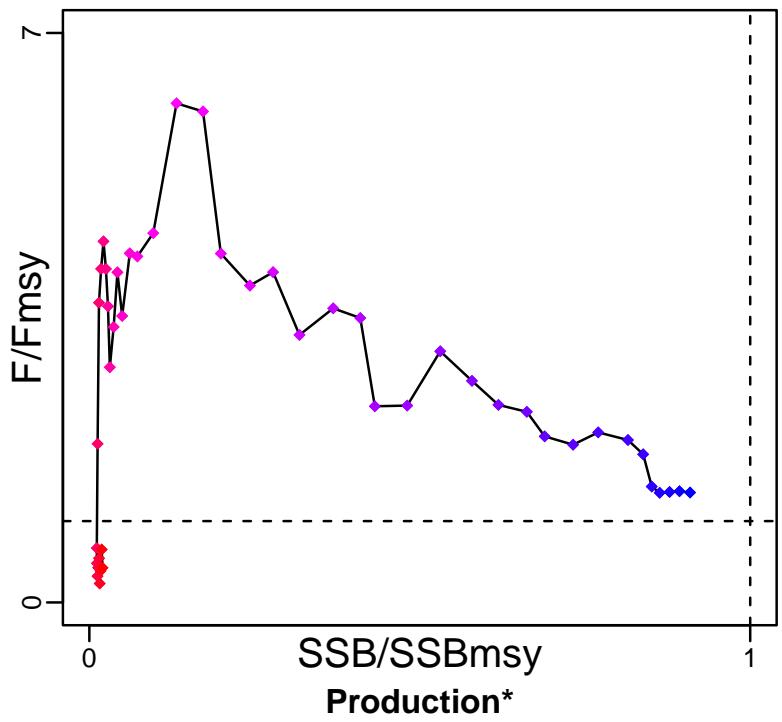
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-1/yr	2018	0.051	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2021	4.89			
TL	TL-MT	2018	2.01			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	0.021			
F/Fmsy	FdivFmsy-dimensionless	2021	0.426			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

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

Kobe MSYpref (1975–2021–ICESIMP2021–2)



Kobe MGTpref (1975–2021–ICESIMP2021–2)



Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

TB*

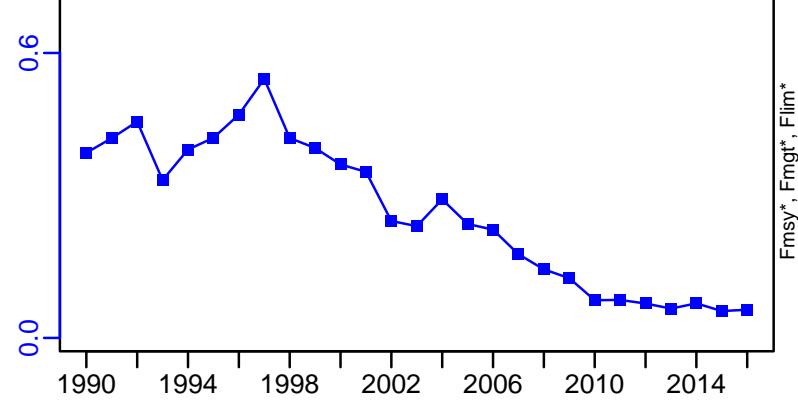
SSB*

TN *

F-1/yr (1975–2018–ICESIMP2021)

ER*

Recruits*

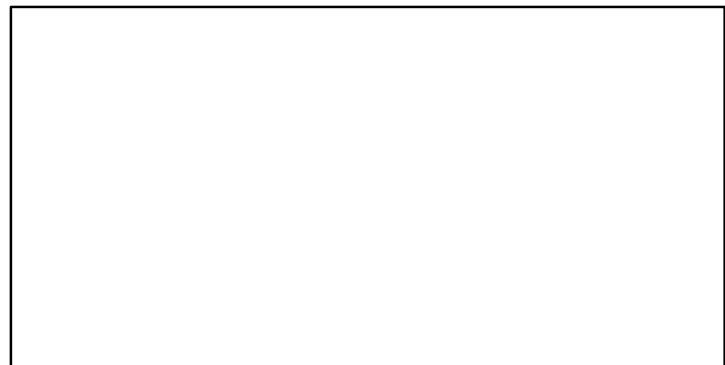
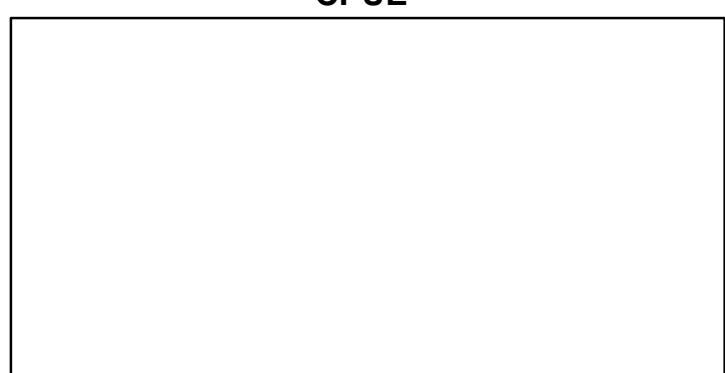
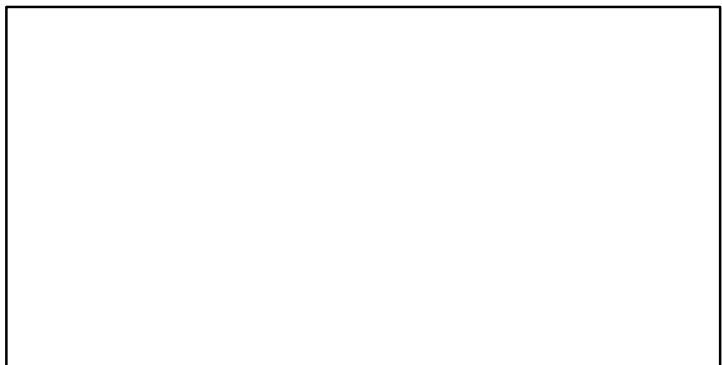
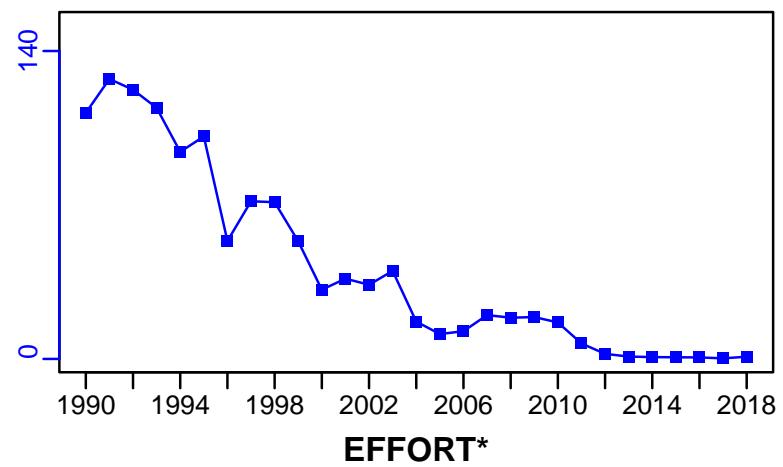
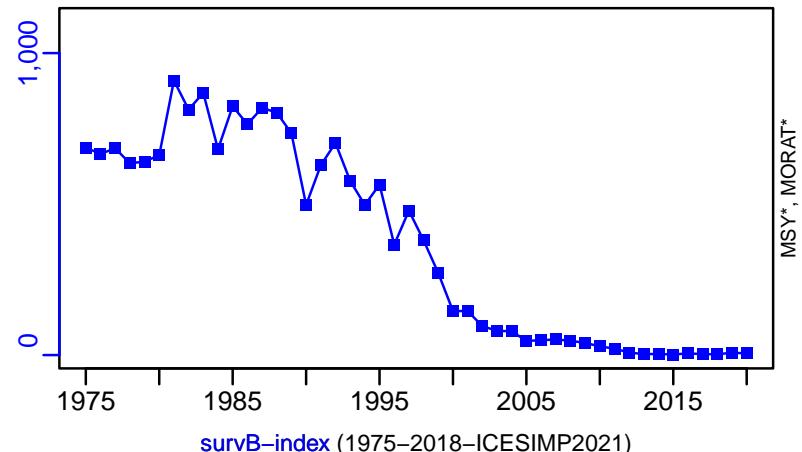


- Listed time series
- Target BRP
- Rec-Est
- MSY-based BRP
- Lim BRP
- * No Data

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

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

TAC*, Cpair*, Cadv*



- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ■ 1st listed time series ● 2nd listed time series | <ul style="list-style-type: none"> ▲ 3rd listed time series - - - MSY | <ul style="list-style-type: none"> — MORAT * No Data |
|--|---|--|

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	-	-	-			

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

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

TB*



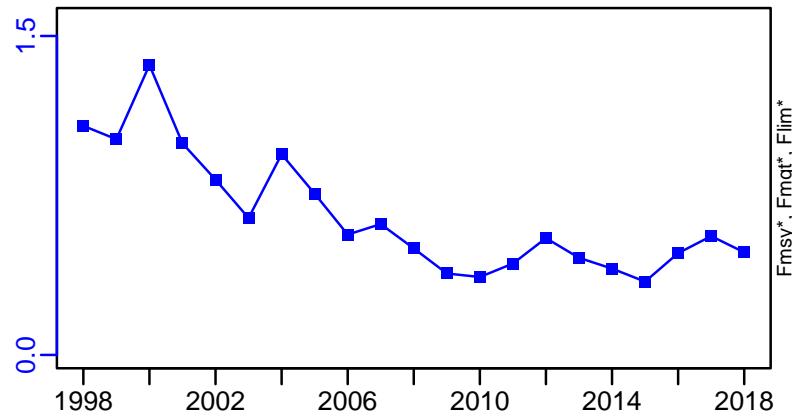
SSB*



TN *



F-1/yr (1984–2018–ICESIMP2021)



ER*



Recruits*

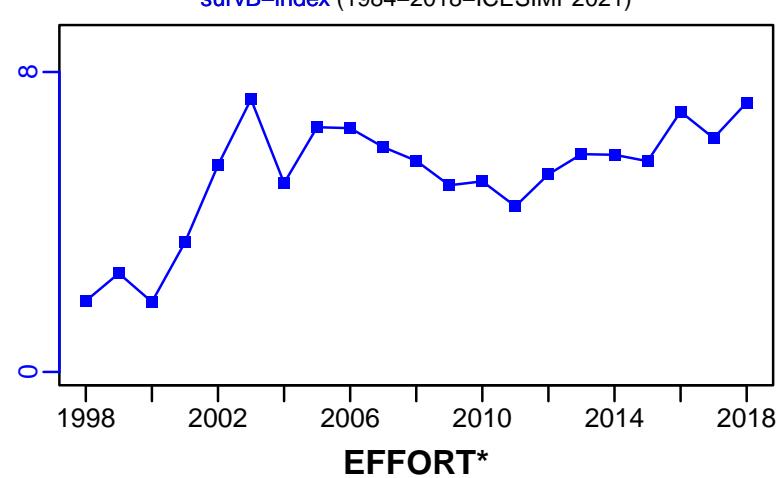
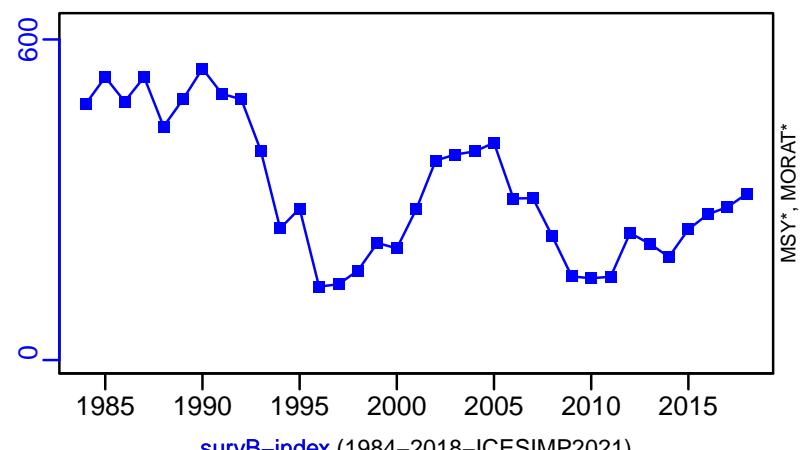


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU30-1994-2019-ICESIMP2021-2
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, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERrmsy	-	-	-
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/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

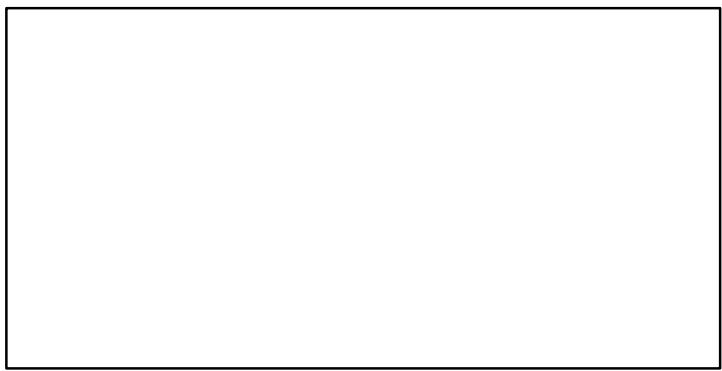
Spawner Recruit*

Production*

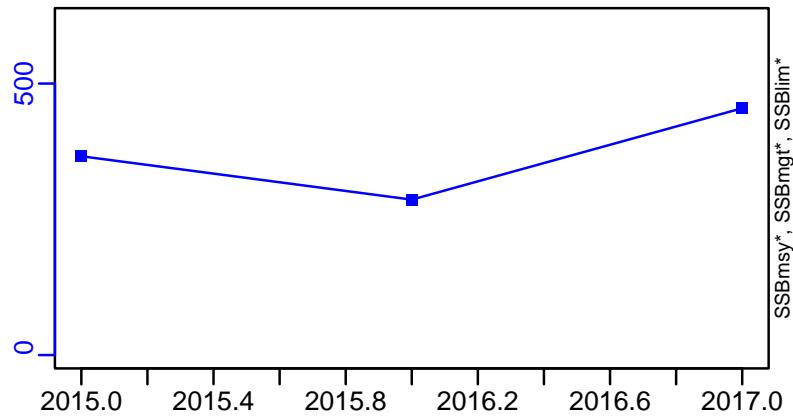
◆ Start Year ♦ End Year * No Data

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

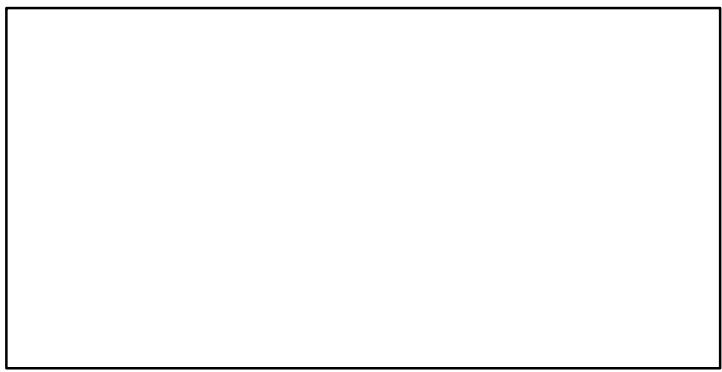
TB*



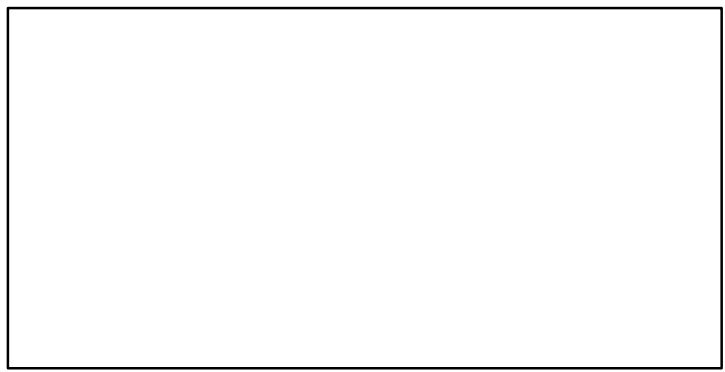
SSB-E00 (1994–2017–ICESIMP2018)



TN *

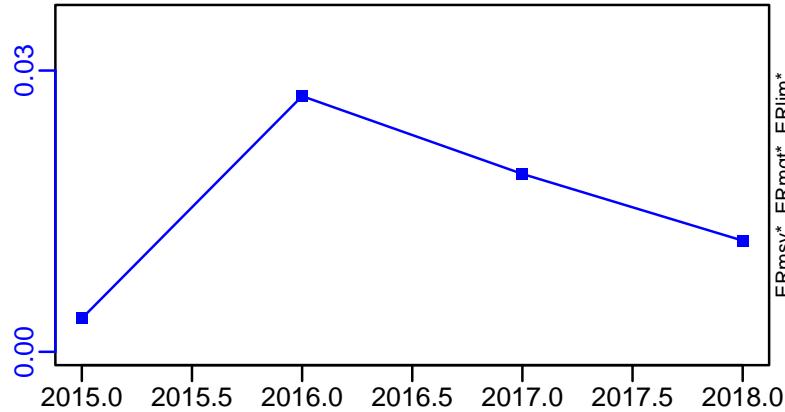


F*

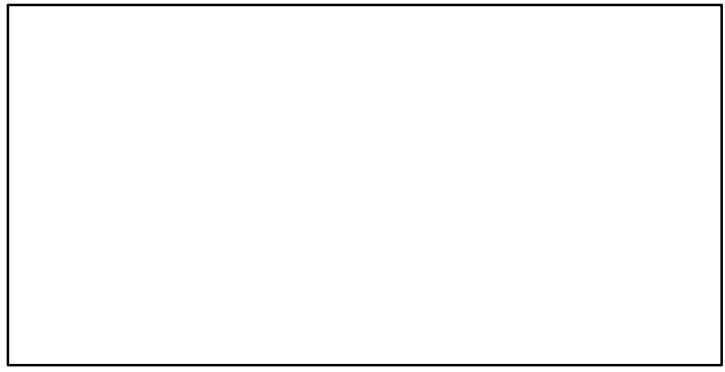


ER-ratio (1994–2019–ICESIMP2021)

ERmsy*, ERmg*, ERlim*



Recruits*

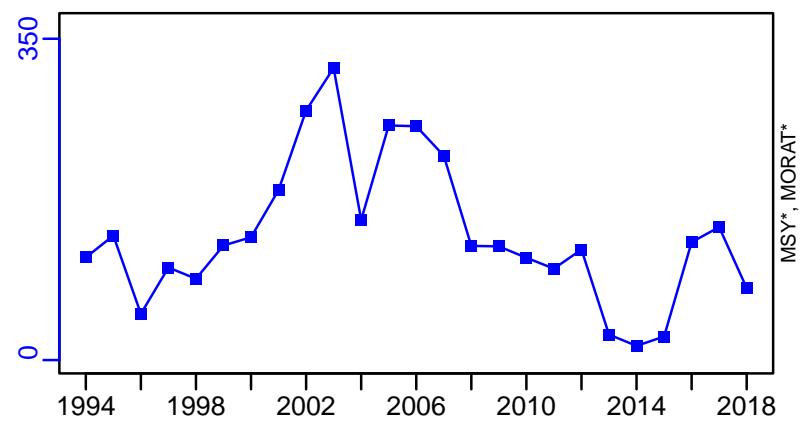


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

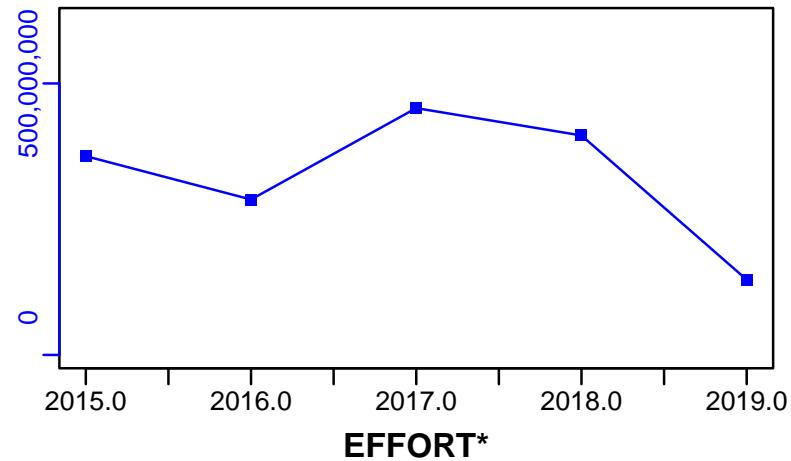
Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

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

TAC*, Cpair*, Cadv*



survB-E00 (1994–2019–ICESIMP2021)



EFFORT*

CPUE*

CdivMSY*

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

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	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

TB*



SSB*



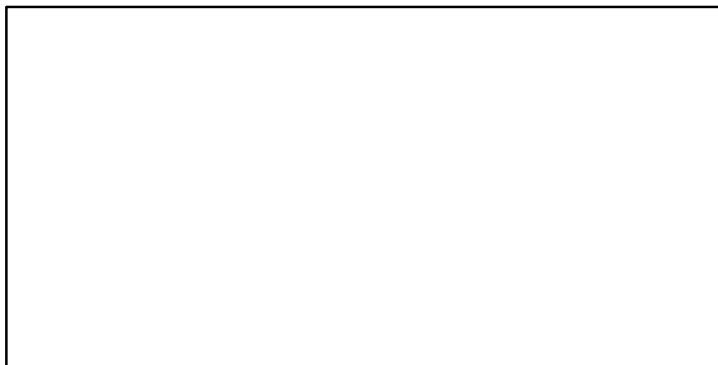
TN *



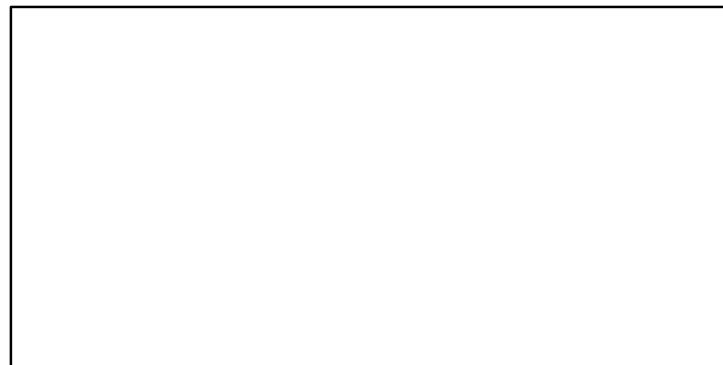
F*



ER*



Recruits*

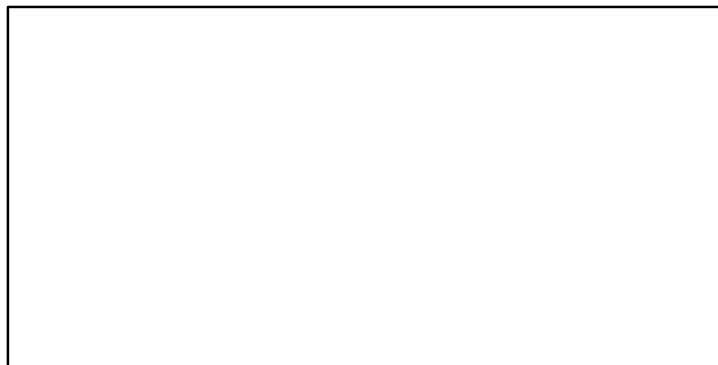
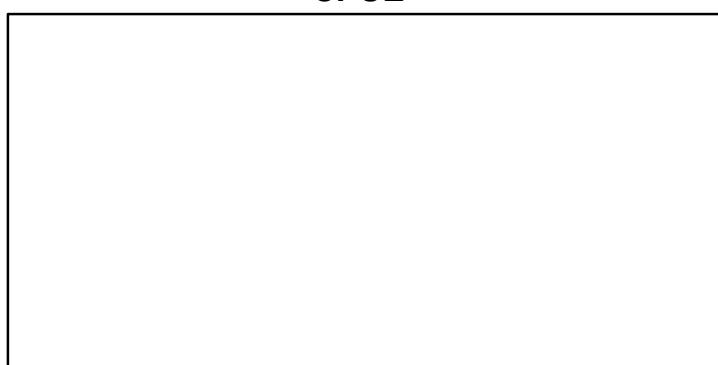
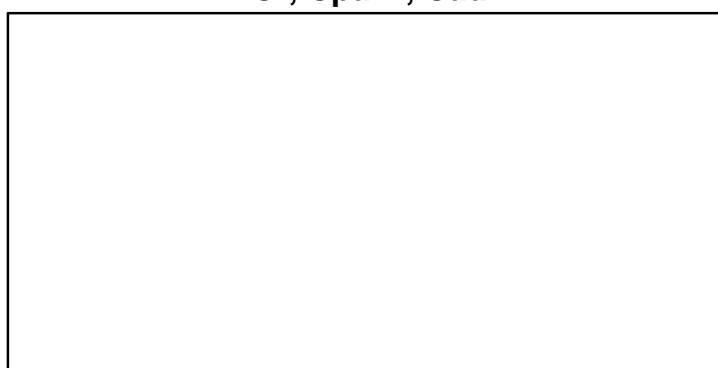
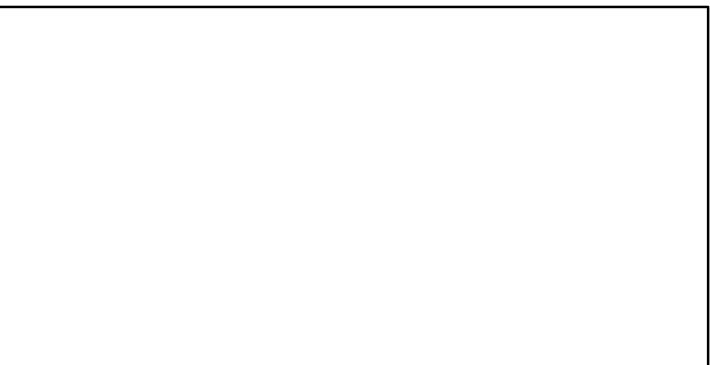
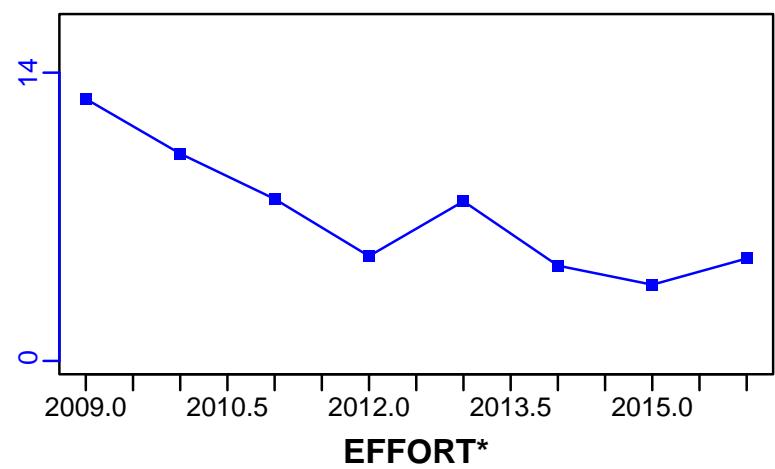
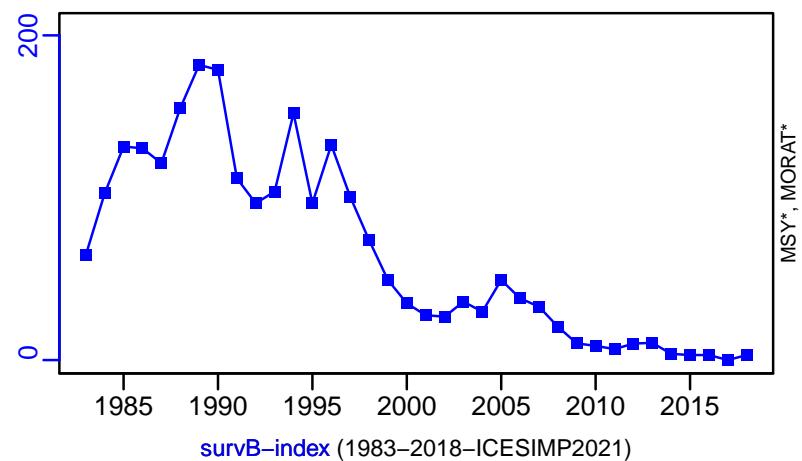


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

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

TAC*, Cpair*, Cadv*



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

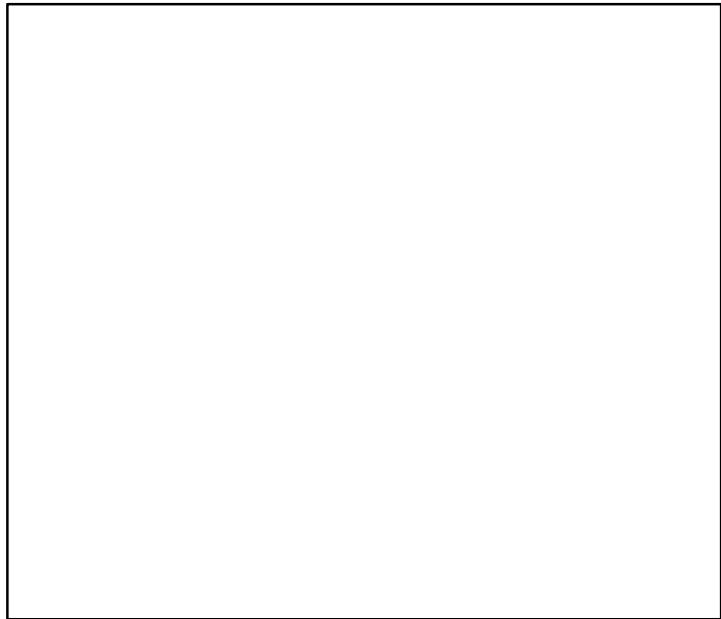
Norway lobster Norwegian Deep (FU 32) [NEPHFU32]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU32-1987-2019-ICESIMP2021-2
Area	Norwegian Deep (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, 2019

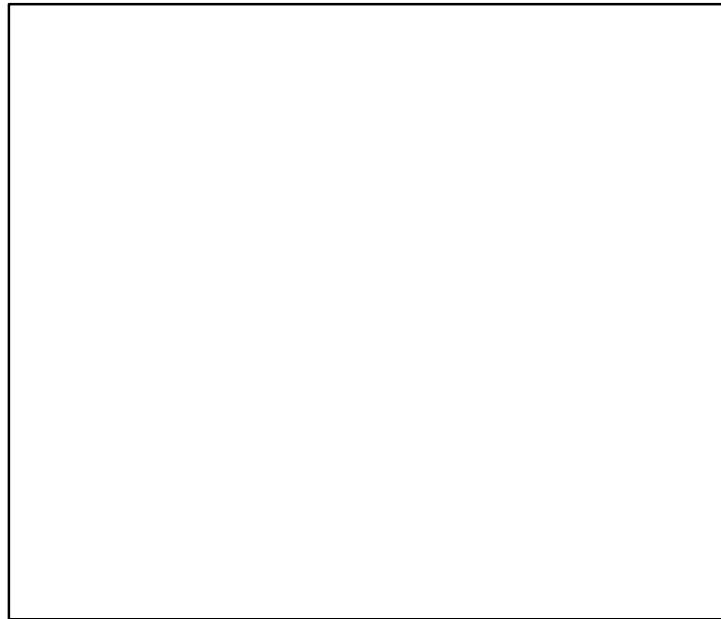
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	198		
TL	TL-MT	2019	191		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

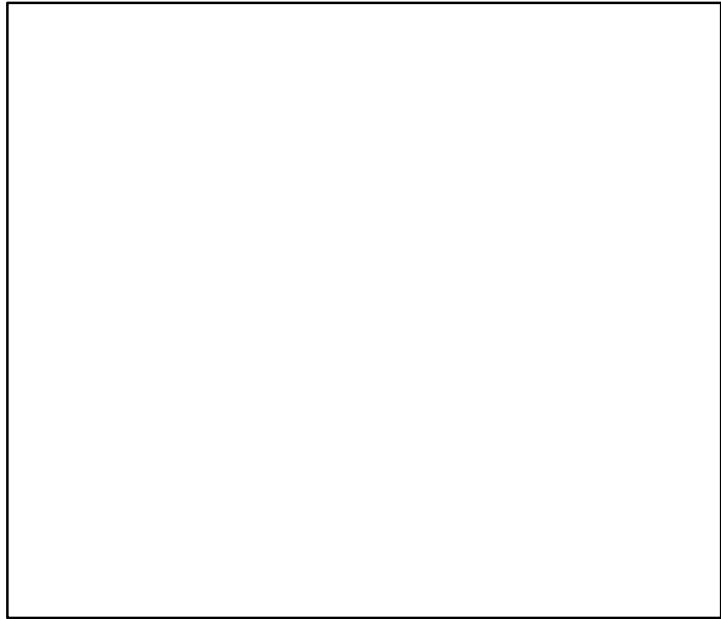
Kobe MSY*



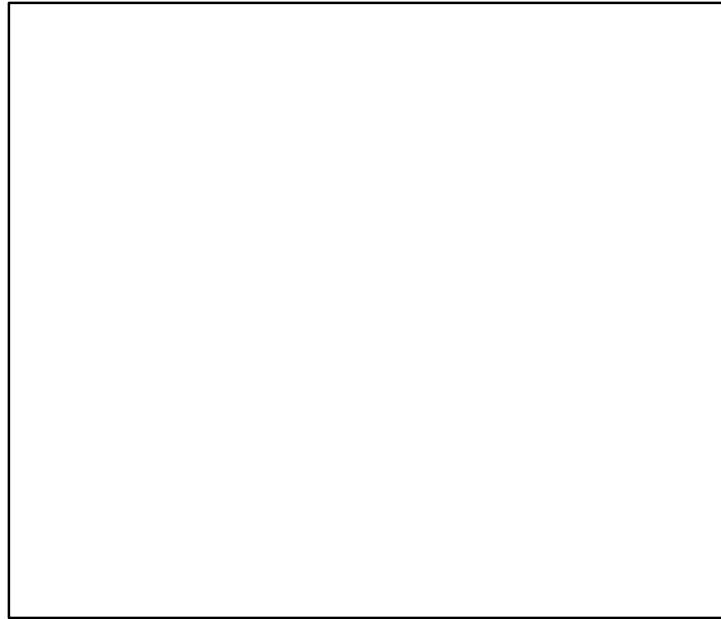
Kobe MGT*



Spawner Recruit*



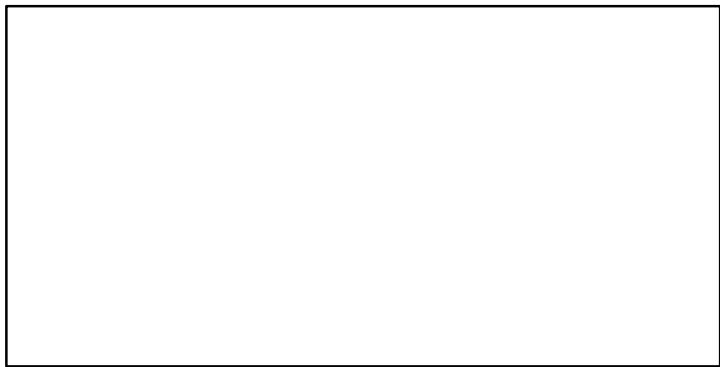
Production*



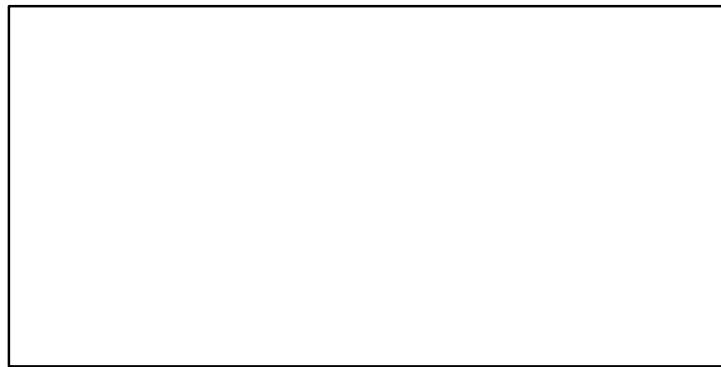
◆ Start Year ♦ End Year * No Data

Norway lobster Norwegian Deep (FU 32) [NEPHFU32]

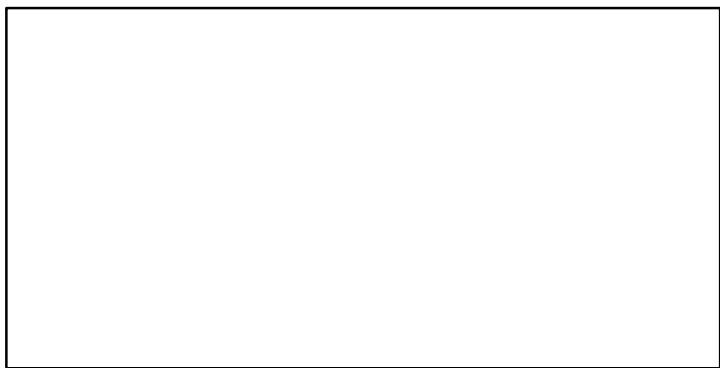
TB*



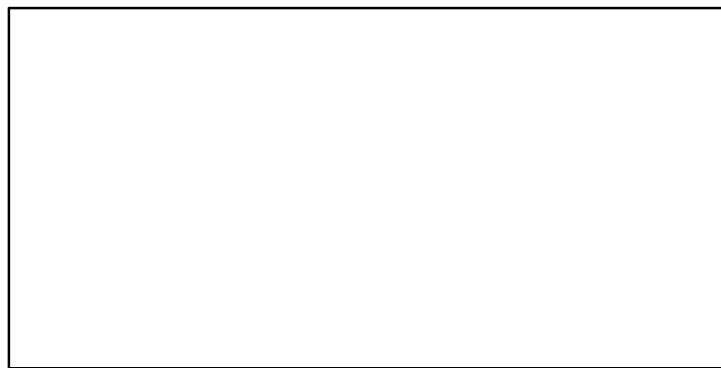
SSB*



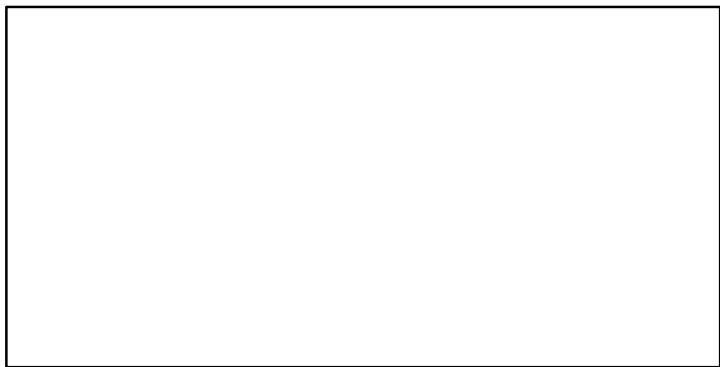
TN *



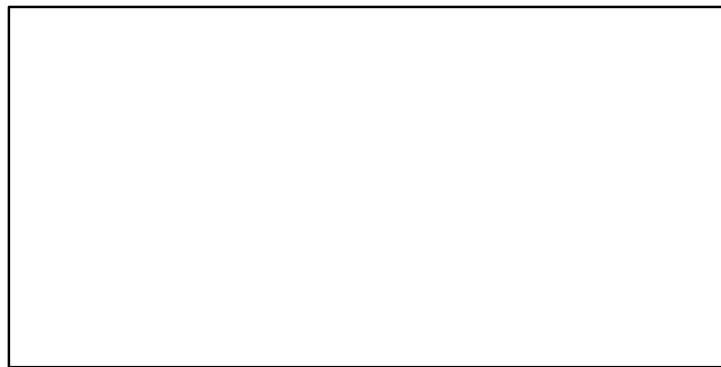
F*



ER*



Recruits*

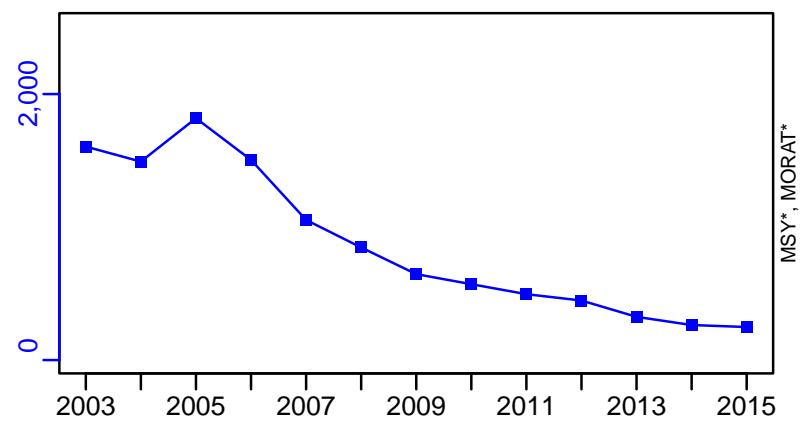


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

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

TAC*, Cpair*, Cadv*



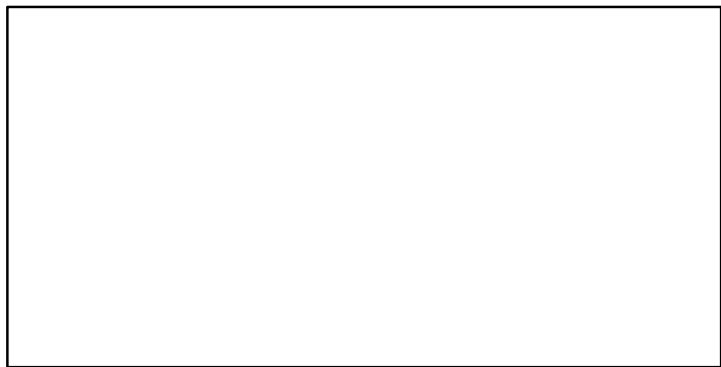
survB*



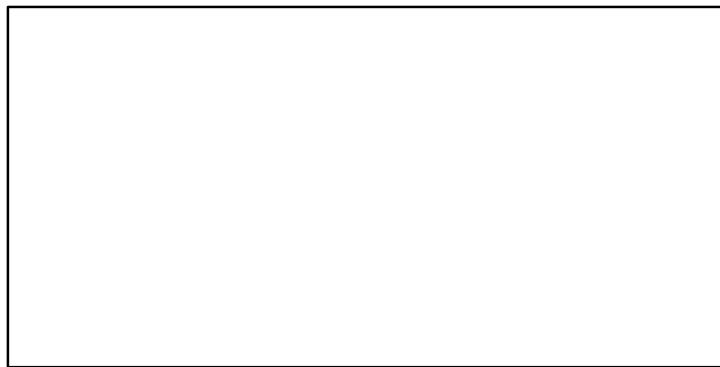
CPUE*



EFFORT*



CdivMSY*



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

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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU33-1993-2019-ICESIMP2021-2
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, 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	1610		
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 Off Horn Reef (FU 33) [NEPHFU33]

TB*



SSB*



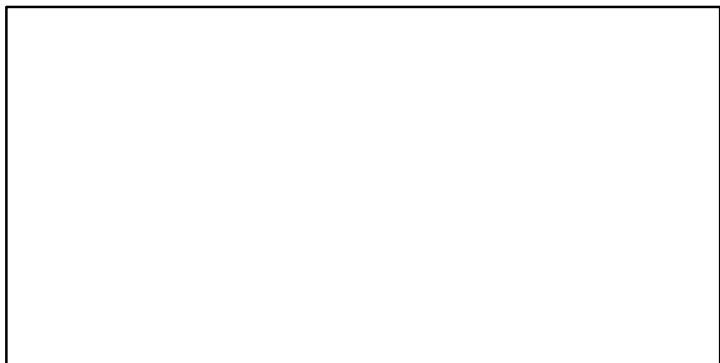
TN *



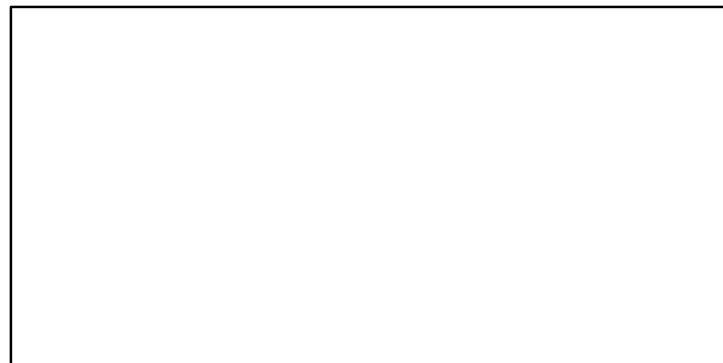
F*



ER*



Recruits*

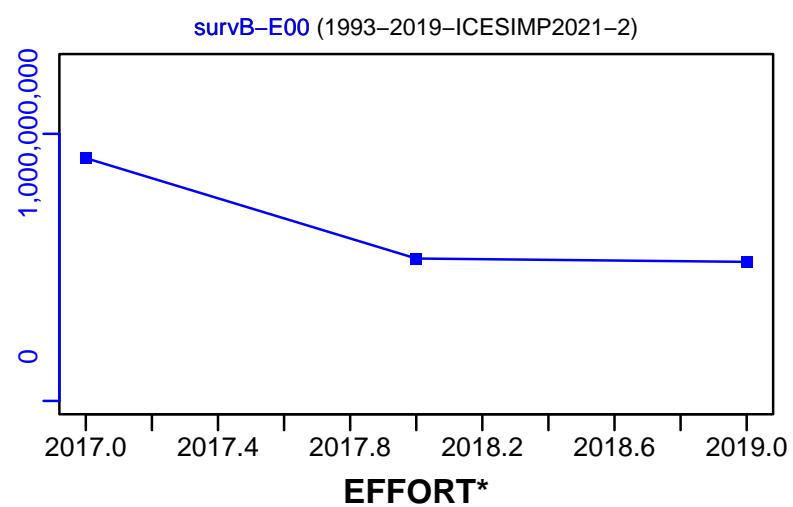
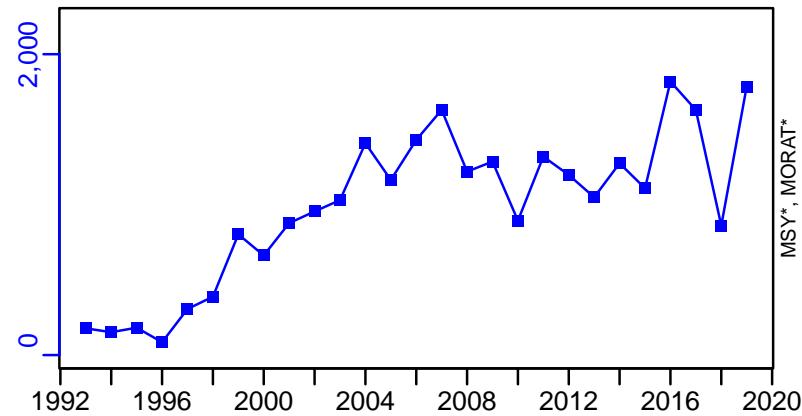


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

TL-MT, TC*, RecC* (1993–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

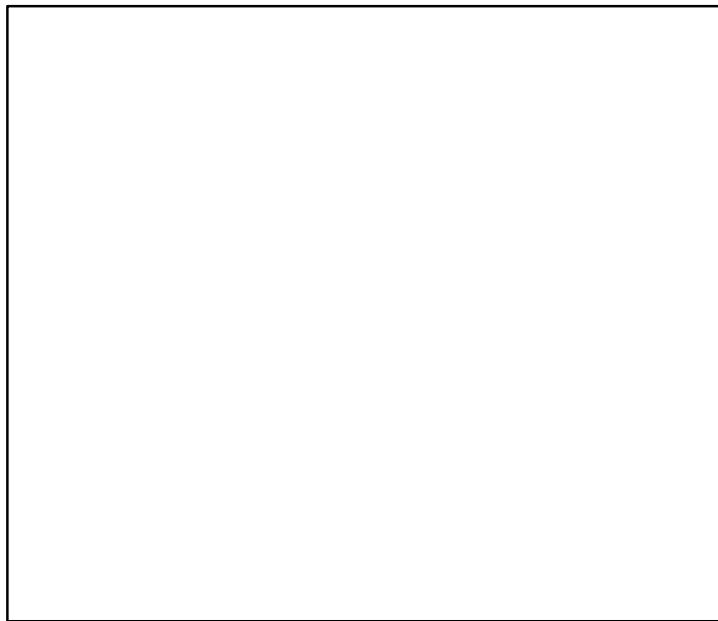
Norway lobster Devils Hole (FU 34) [NEPHFU34]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU34-2003-2019-ICESIMP2021-2
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, 2019

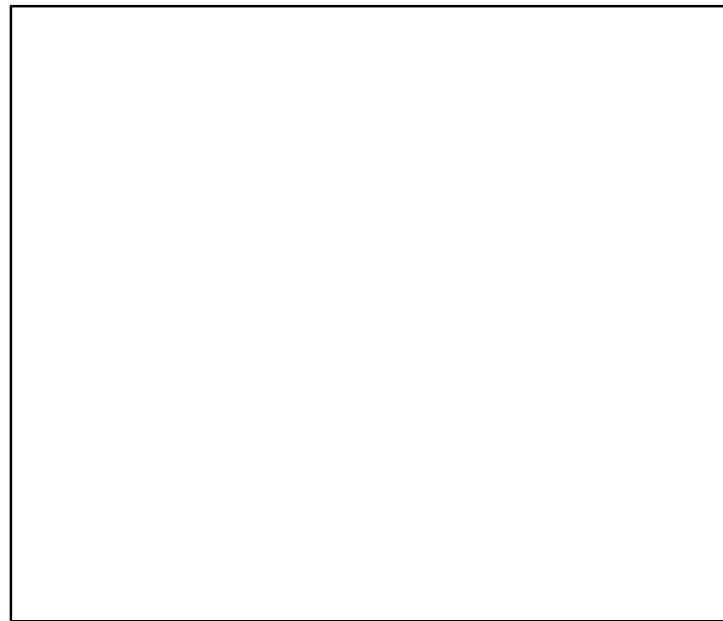
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	1190		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

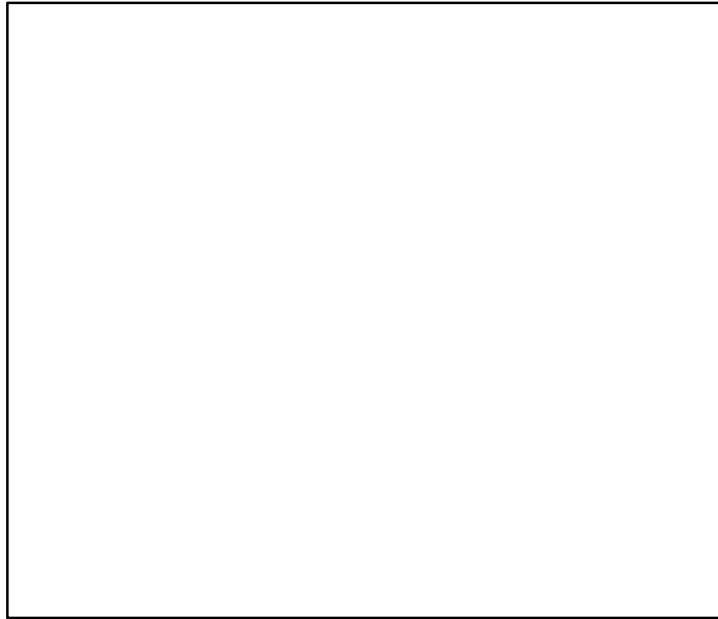
Kobe MSY*



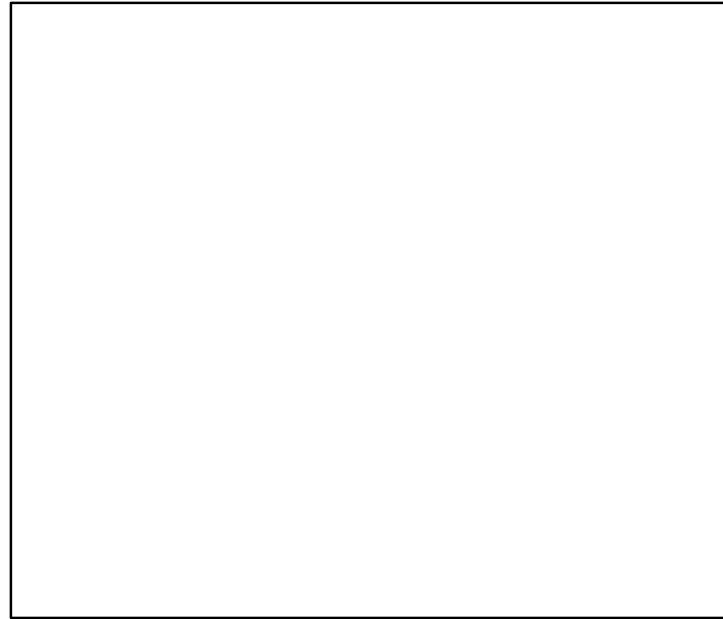
Kobe MGT*



Spawner Recruit*



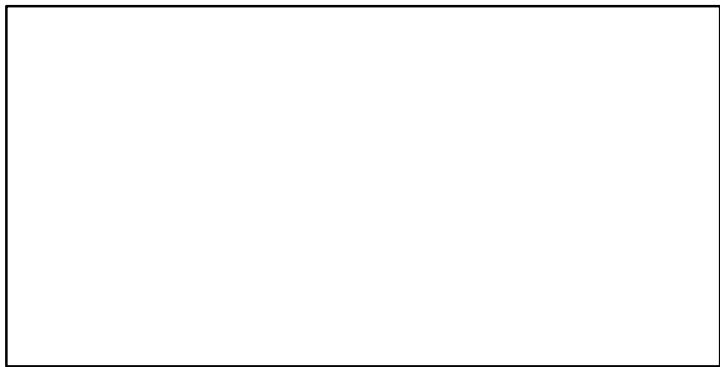
Production*



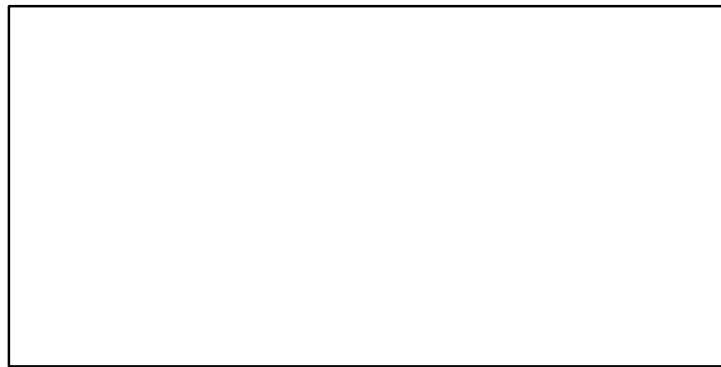
◆ Start Year ♦ End Year * No Data

Norway lobster Devils Hole (FU 34) [NEPHFU34]

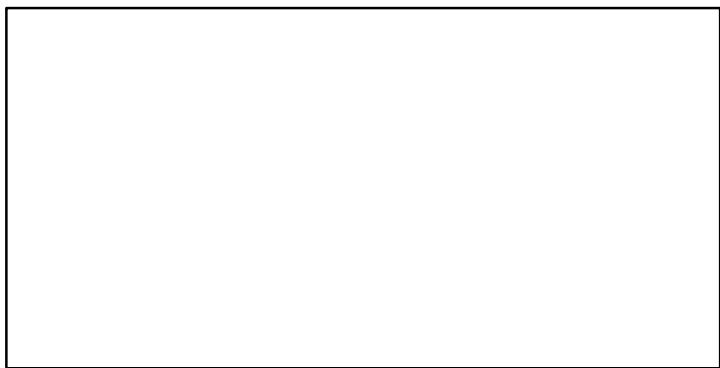
TB*



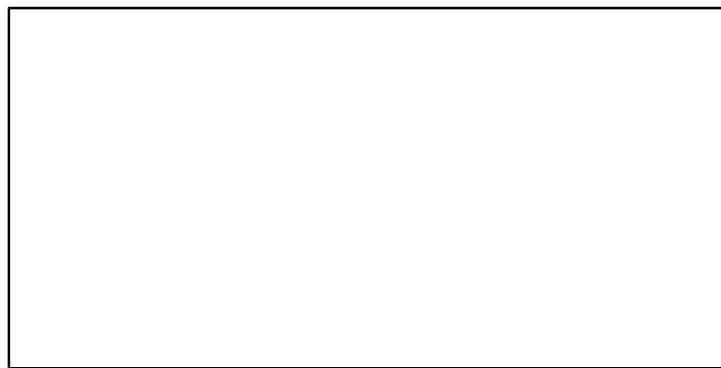
SSB*



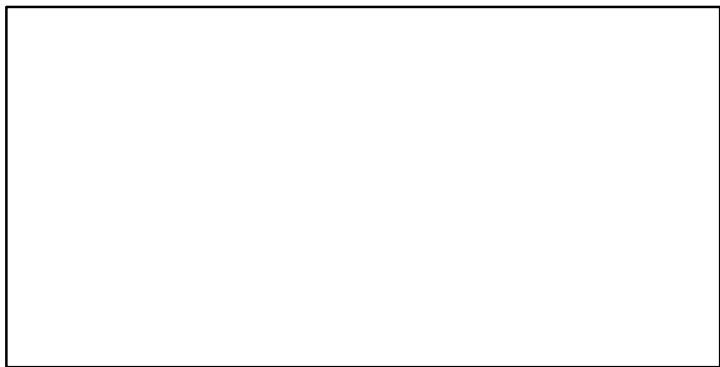
TN *



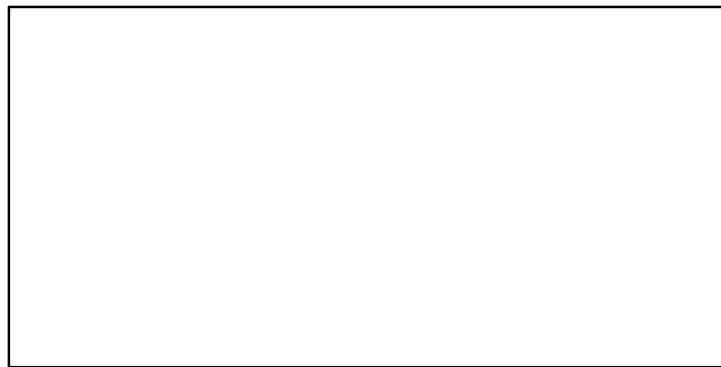
F*



ER*



Recruits*

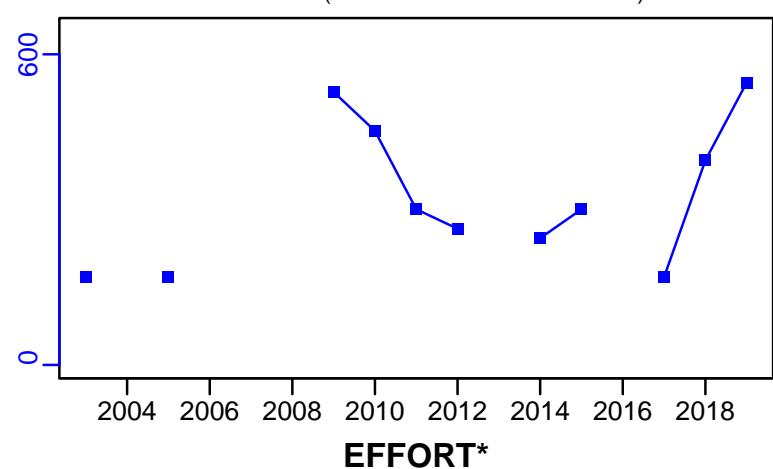
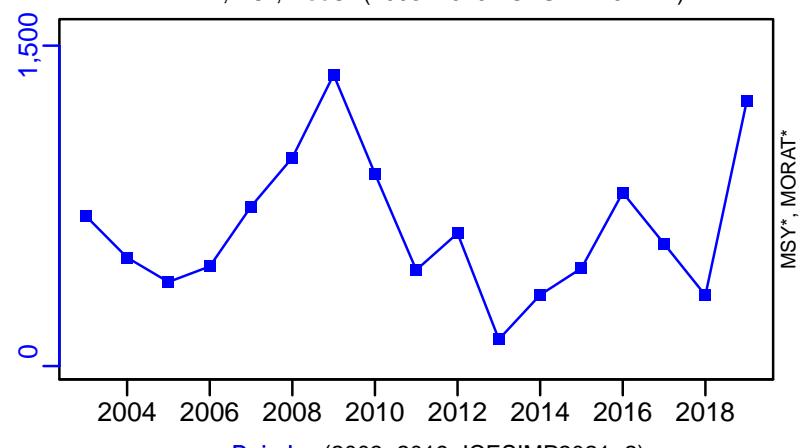


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Norway lobster Devils Hole (FU 34) [NEPHFU34]

TL-MT, TC*, RecC* (2003–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



EFFORT*



CPUE*



CdivMSY*



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

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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU3-4-1960-2020-ICESIMP2021-2
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, 2019, 2020, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2020	7.9
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2020	7.9
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	2020	3.856	-	-	-
TC	TC-MT	2020	7130			
TL	TL-MT	2020	5910			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.488			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*

Kobe MGT*

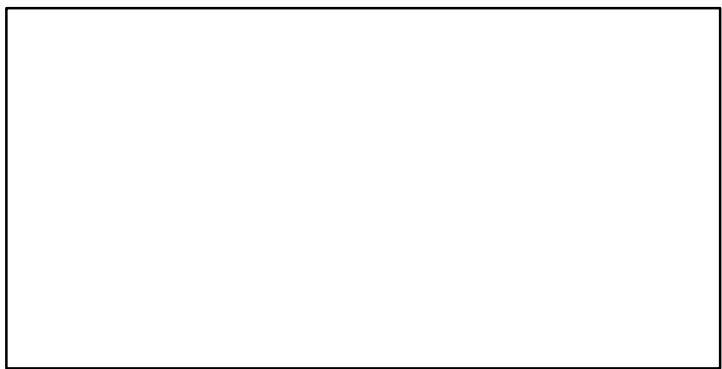
Spawner Recruit*

Production*

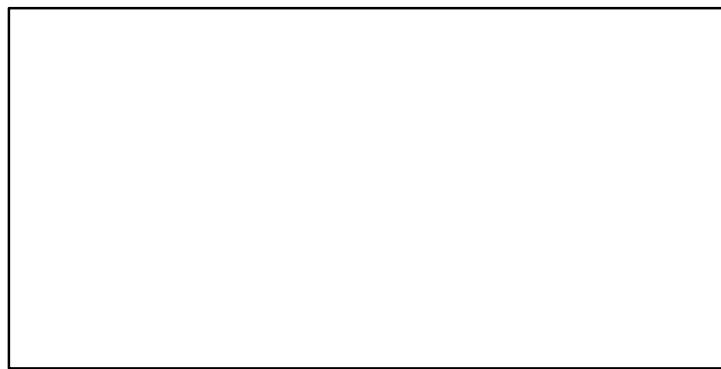
◆ Start Year ♦ End Year * No Data

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

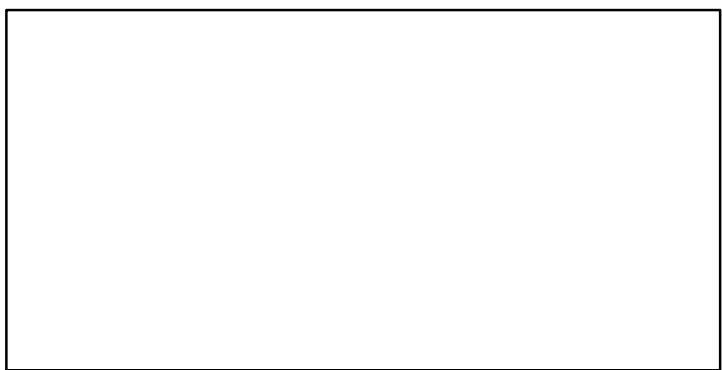
TB*



SSB*



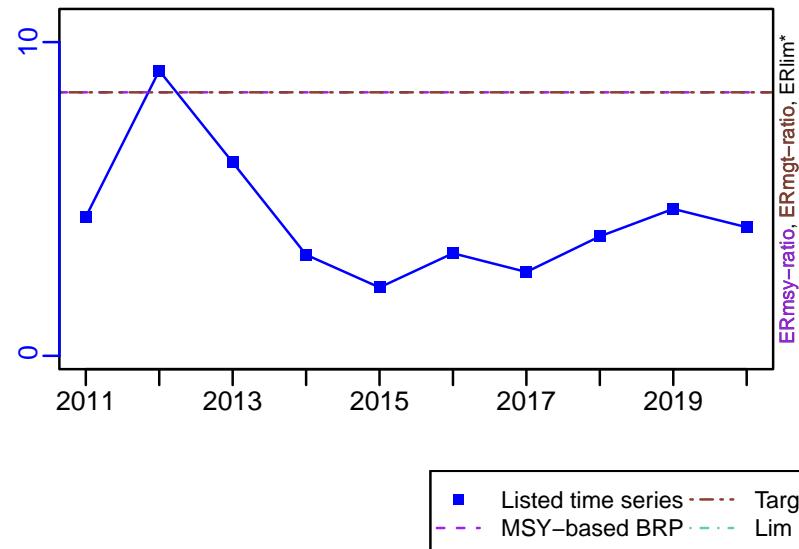
TN *



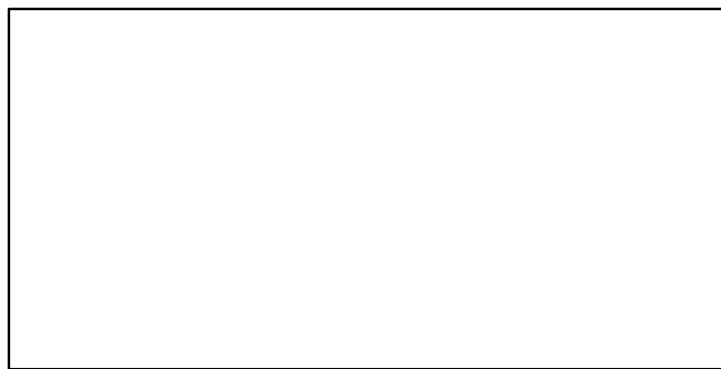
F*



ER-ratio (1960–2020–ICESIMP2021–2)



Recruits*

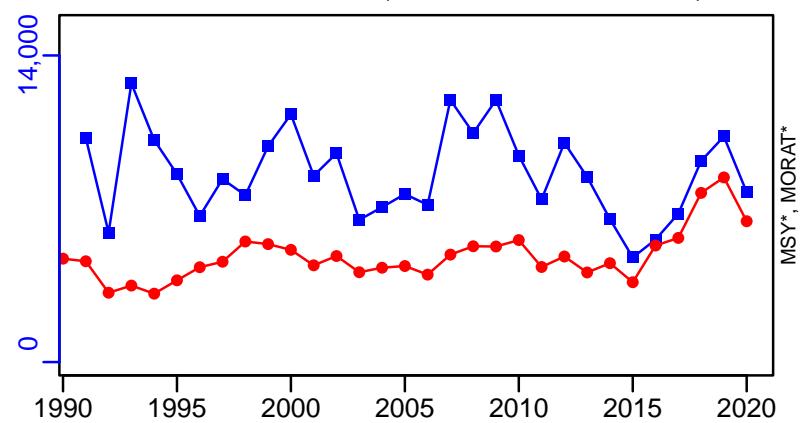


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	— Lim BRP	* No Data

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

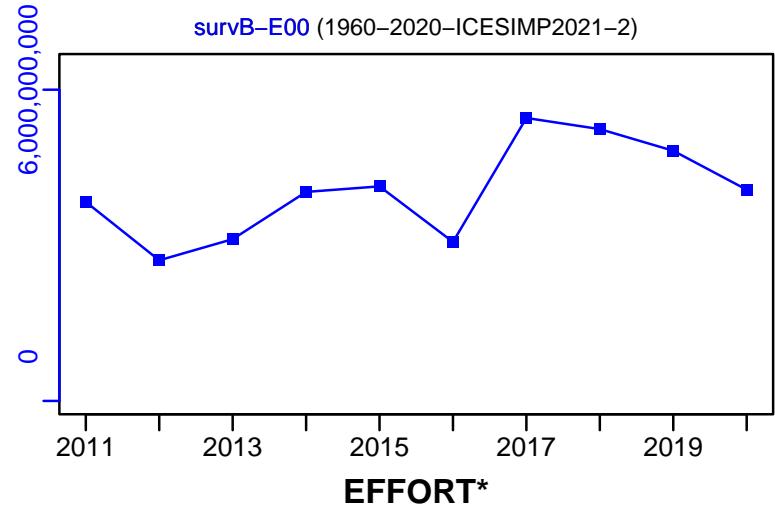
TC-MT, TL-MT, RecC* (1960–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB-E00 (1960–2020–ICESIMP2021–2)

MSY*, MORAT*

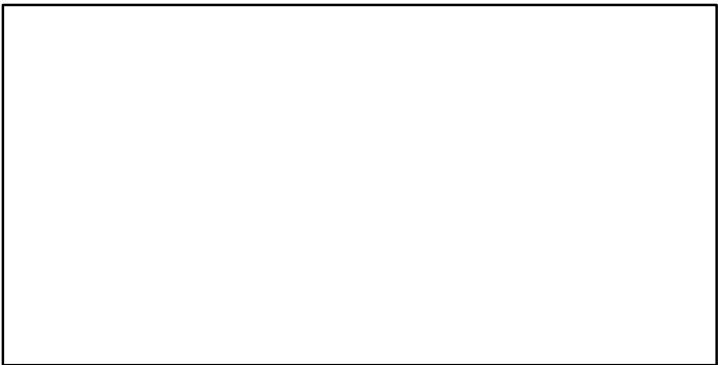


EFFORT*

CPUE*



CdivMSY*



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

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

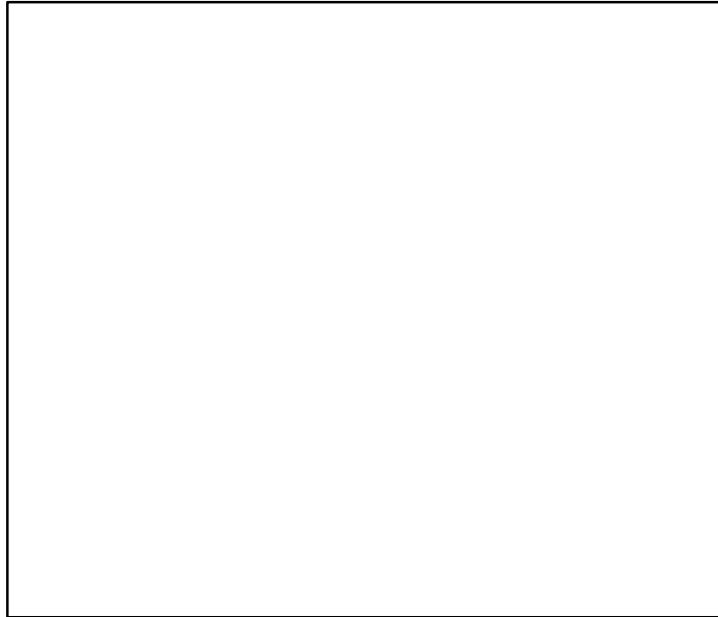
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU5-1991-2019-ICESIMP2021-2
Area	Botney Cut - Silver Pit (FU 5)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017, 2019

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

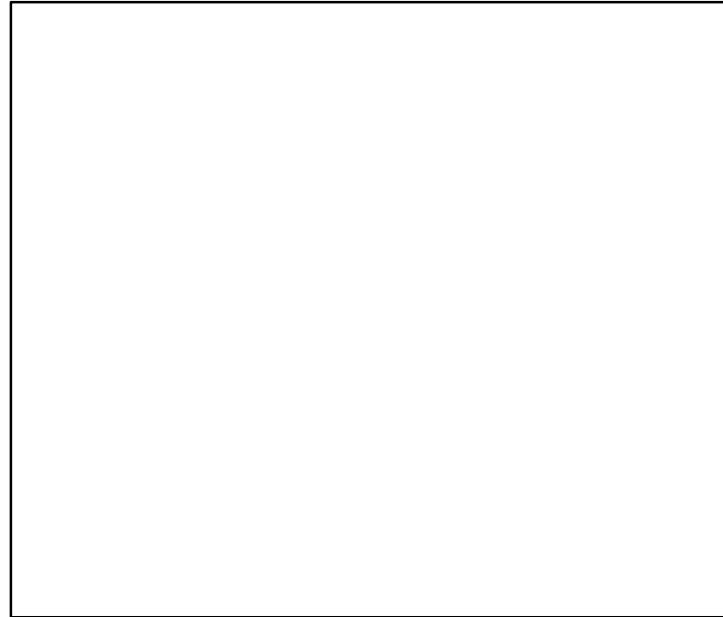
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	1170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

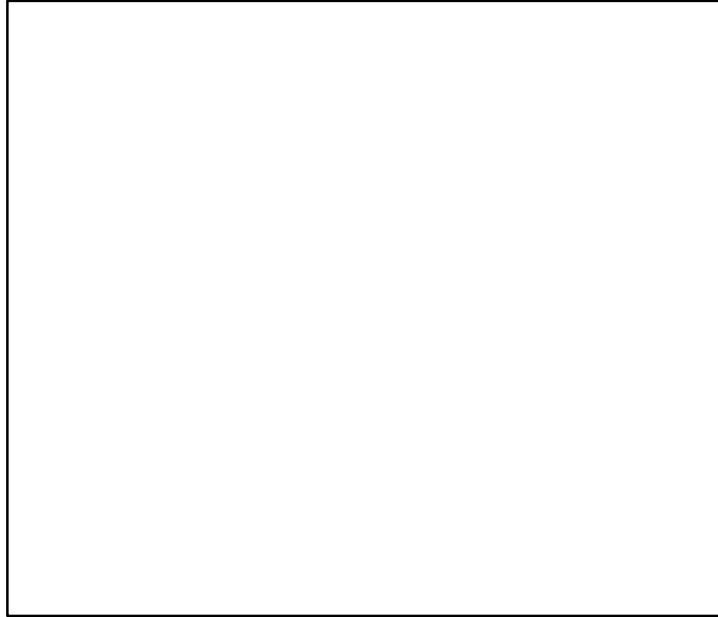
Kobe MSY*



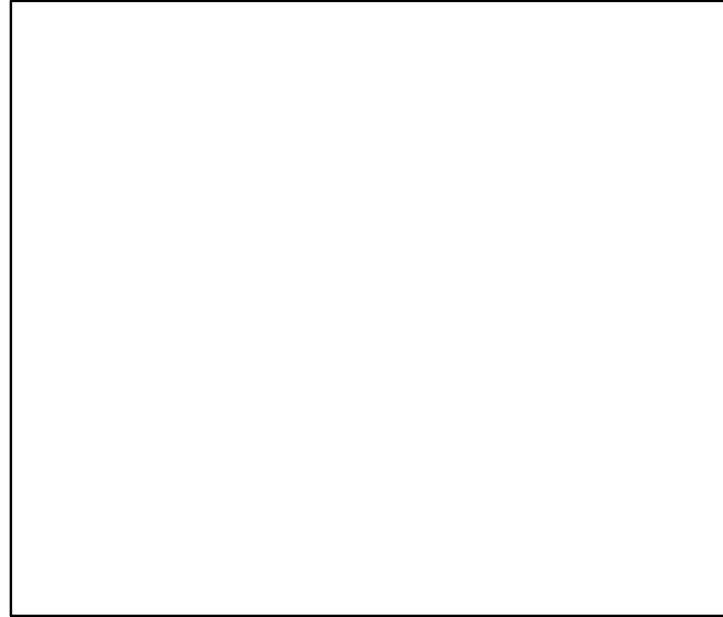
Kobe MGT*



Spawner Recruit*



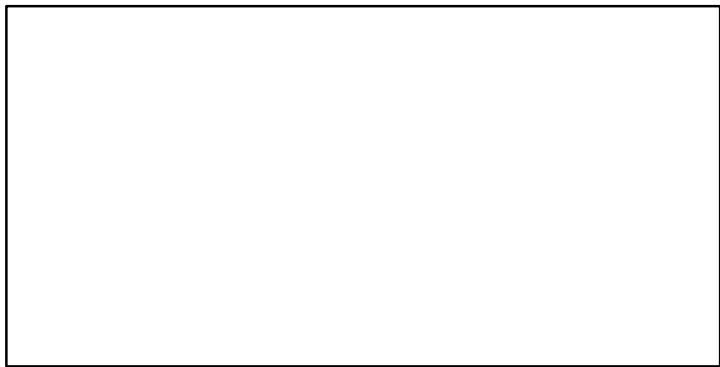
Production*



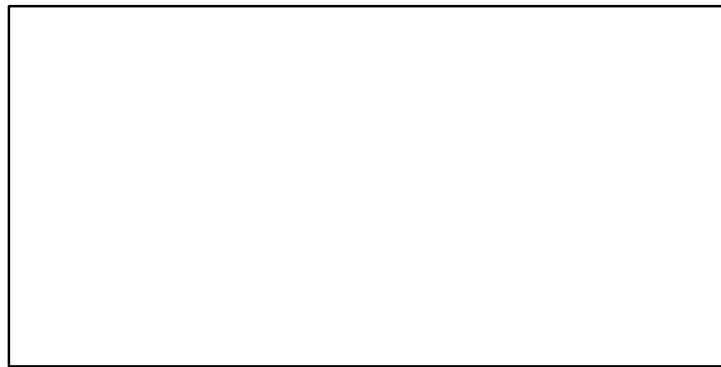
◆ Start Year ♦ End Year * No Data

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

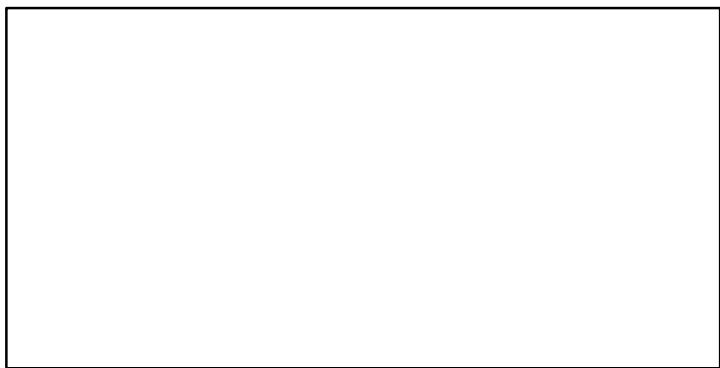
TB*



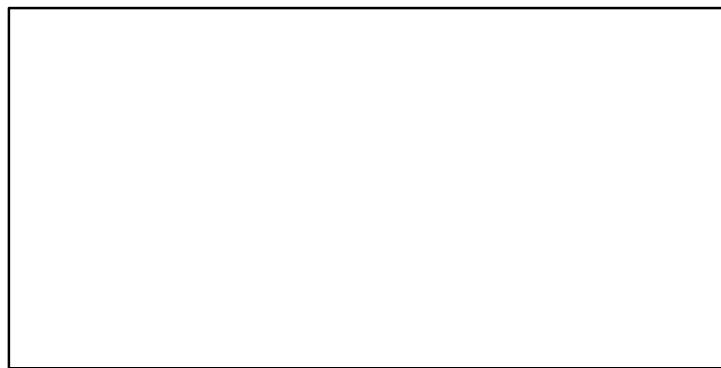
SSB*



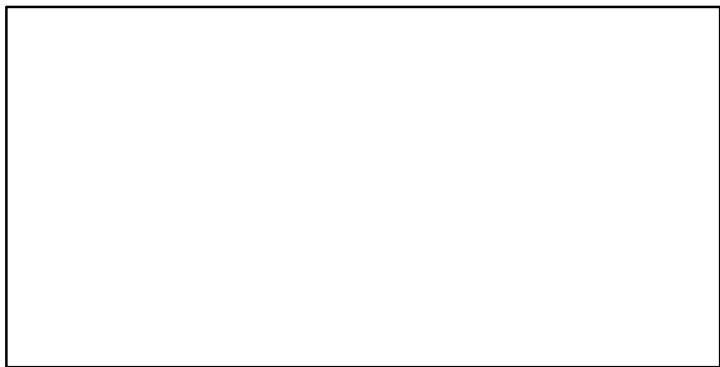
TN *



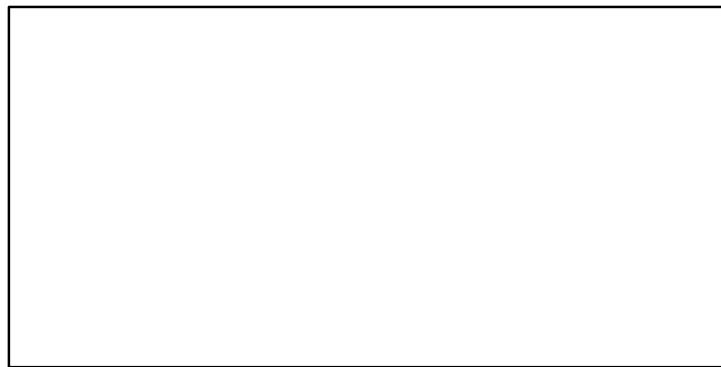
F*



ER*



Recruits*

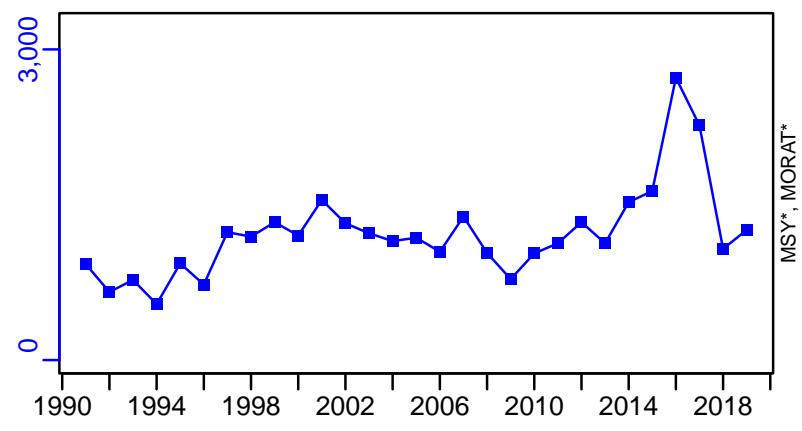


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

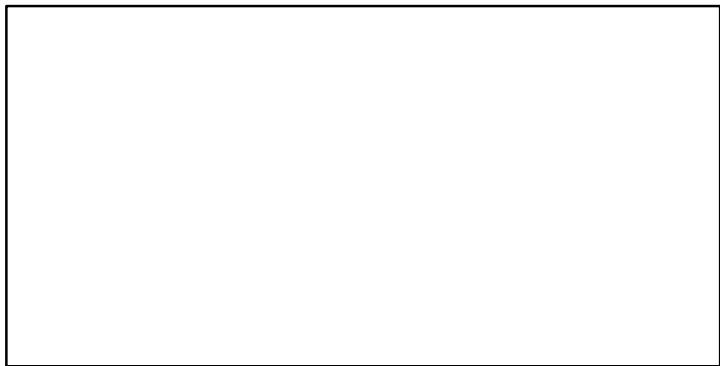
Norway lobster Botney Cut – Silver Pit (FU 5) [NEPHFU5]

TL-MT, TC*, RecC* (1991–2019–ICESIMP2021–2)

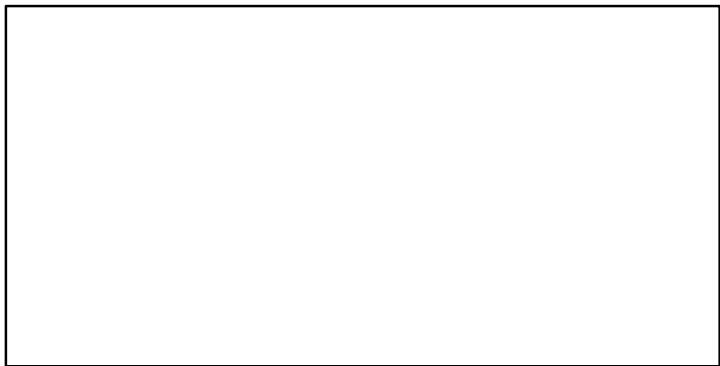
TAC*, Cpair*, Cadv*



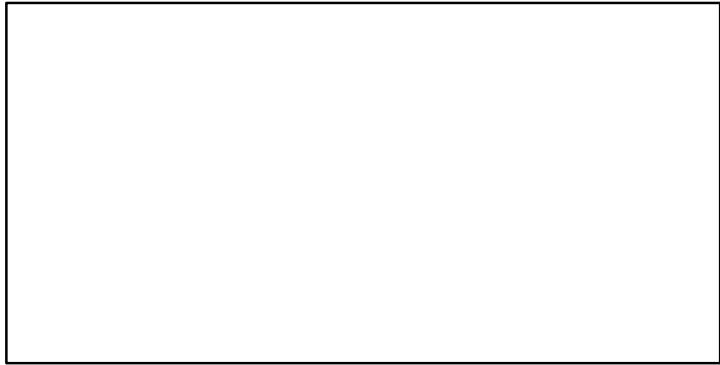
survB*



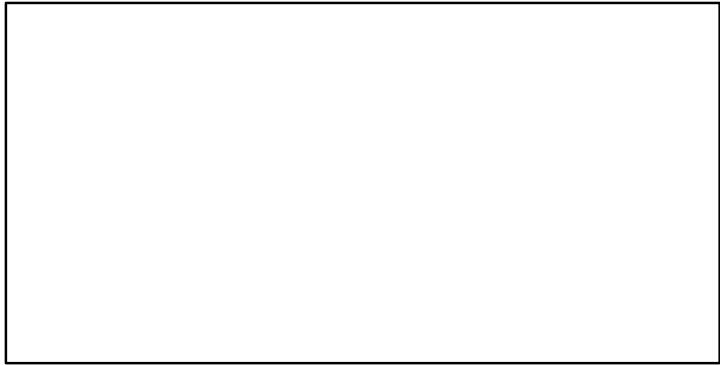
CPUE*



EFFORT*



CdivMSY*



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

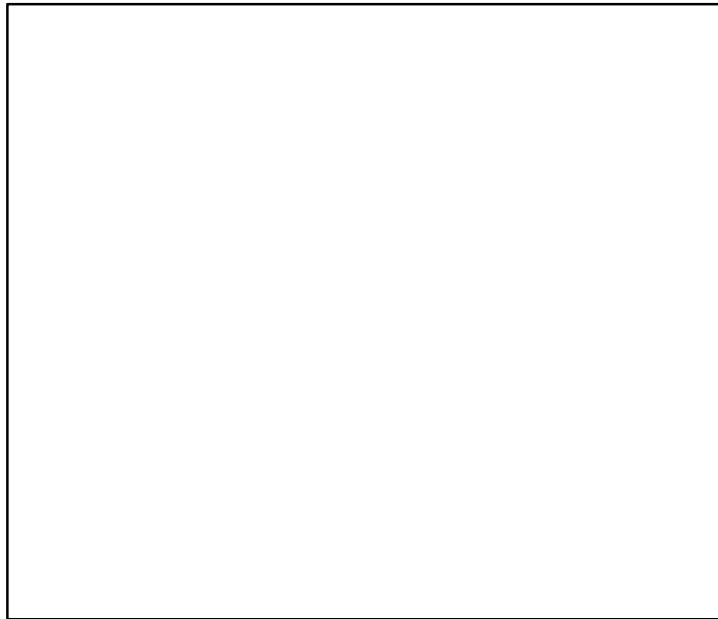
Norway lobster Farm Deeps (FU 6) [NEPHFU6]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU6-1981-2020-ICESIMP2021-2
Area	Farn Deeps (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, 2019, 2020

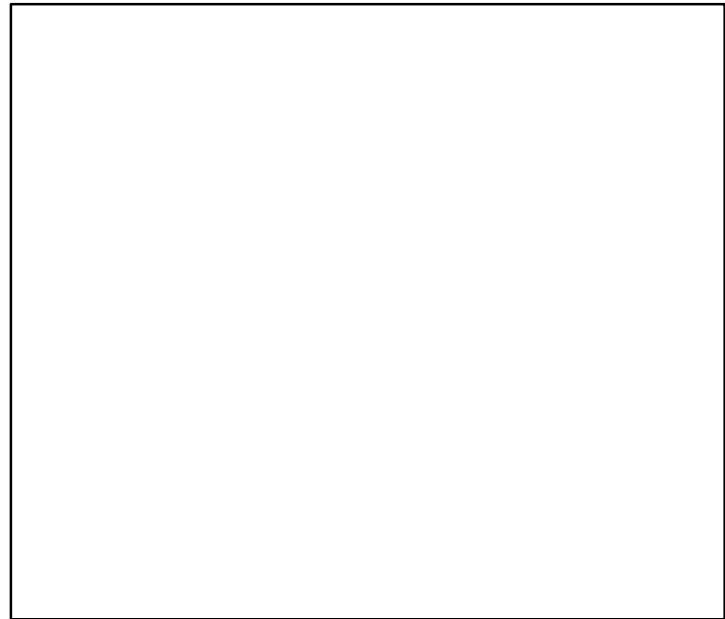
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2019	8.12
ERmsy	ERmsy-ratio	2020	8.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2019	8.12
ERmgt	ERmgt-ratio	2020	8.12
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2019	8.347	-	-	
ER	ER-ratio	2020	16.099	-	-	
TC	TC-MT	2020	4810			
TL	TL-MT	2020	4360			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	1.983			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

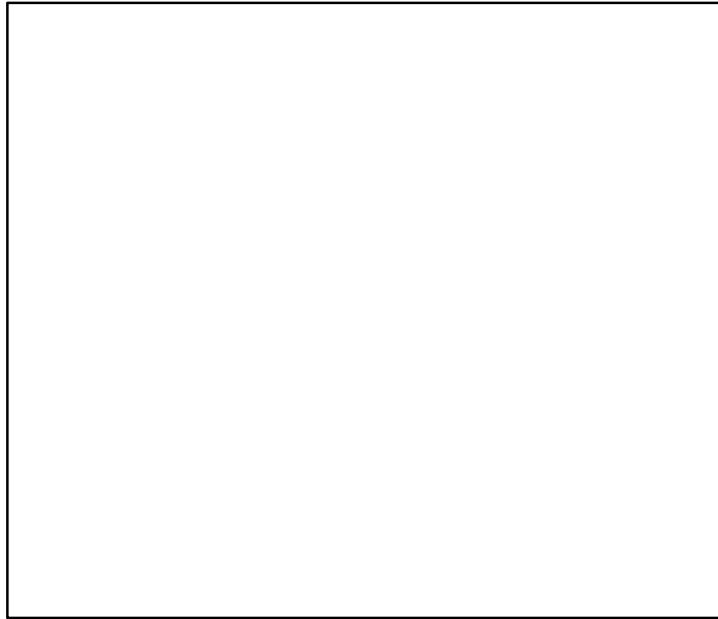
Kobe MSY*



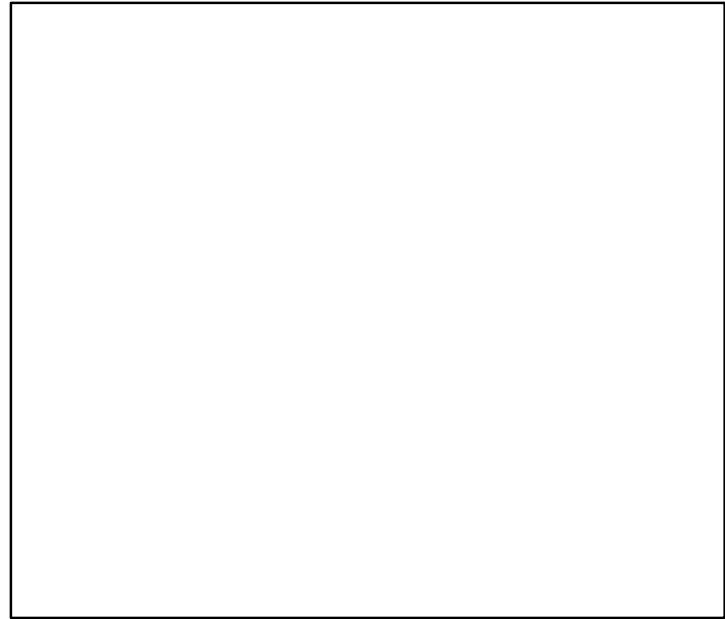
Kobe MGT*



Spawner Recruit*



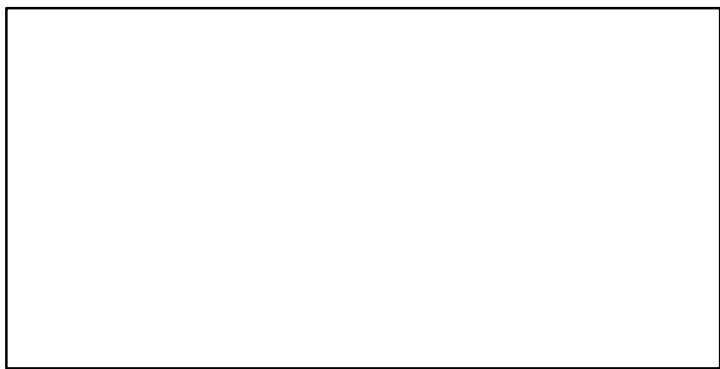
Production*



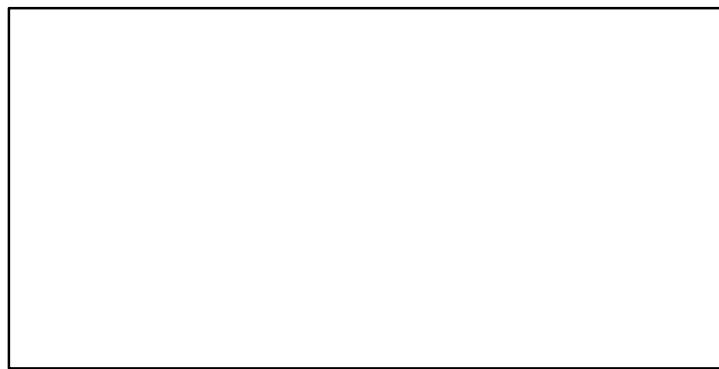
◆ Start Year ♦ End Year * No Data

Norway lobster Farm Deeps (FU 6) [NEPHFU6]

TB*



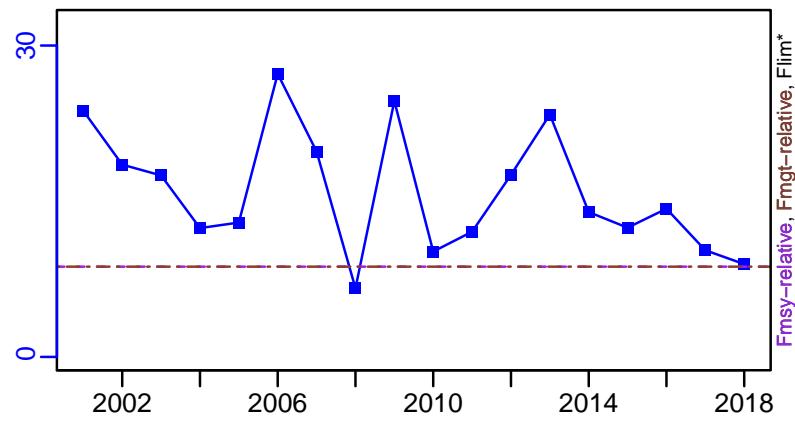
SSB*



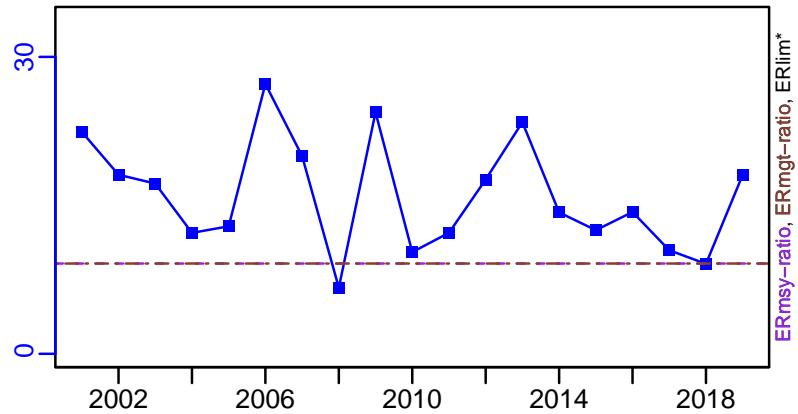
TN *



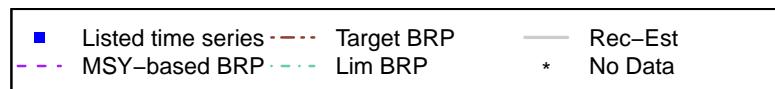
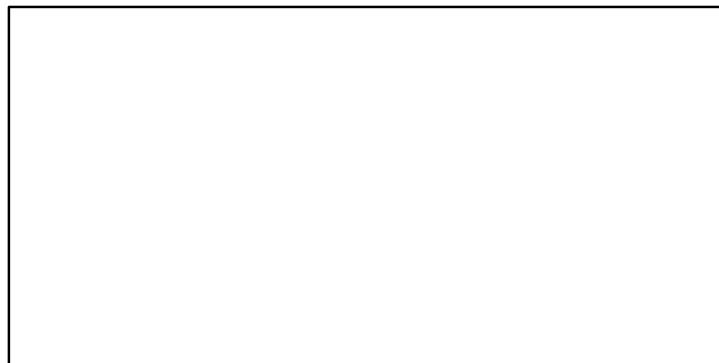
F-relative (1981–2019–ICESIMP2021–2)



ER-ratio (1981–2020–ICESIMP2021–2)



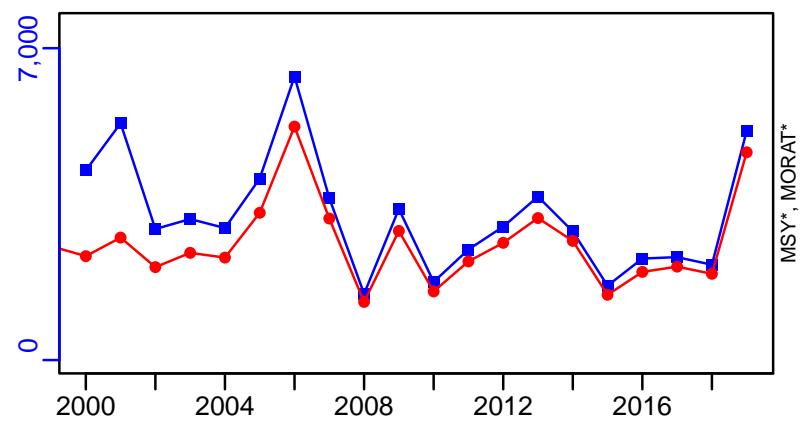
Recruits*



Norway lobster Farm Deeps (FU 6) [NEPHFU6]

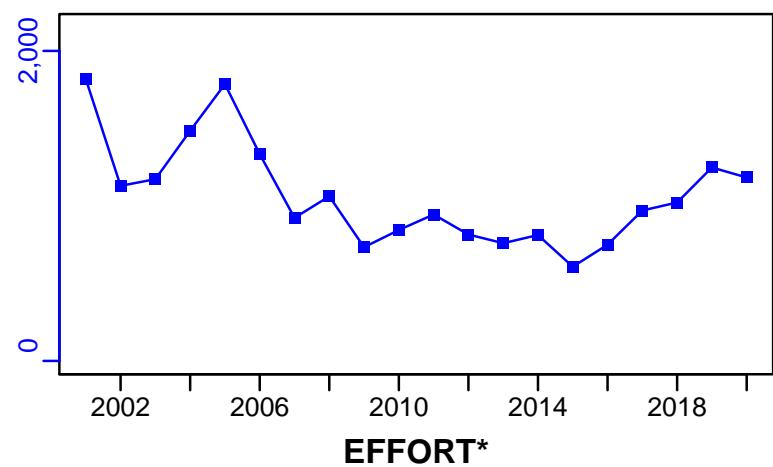
TC-MT, TL-MT, RecC* (1981–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB-E00 (1981–2020–ICESIMP2021–2)

MSY*, MORAT*



EFFORT*

CPUE*



CdivMSY*



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

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU7-1992-2020-ICESIMP2021-2
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, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	7.5
ERmsy	ERmsy-ratio	2017	0.075
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.075
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-relative	2020	0.056	-	-
ER	ER-ratio	2019	0.028	-	-
TC	-	-	-		
TL	TL-MT	2020	9030		
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	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.267		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

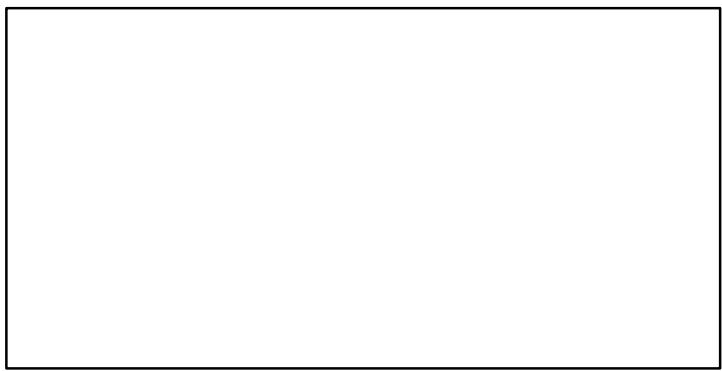
Spawner Recruit*

Production*

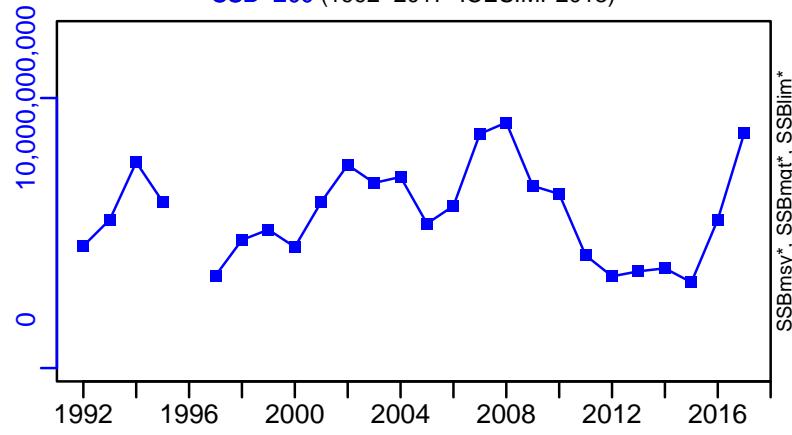
◆ Start Year ♦ End Year * No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

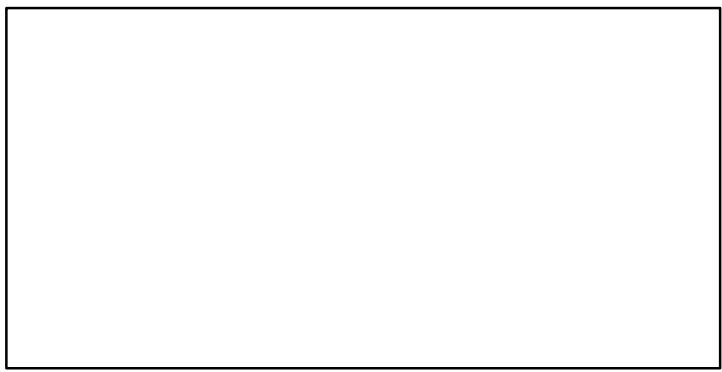
TB*



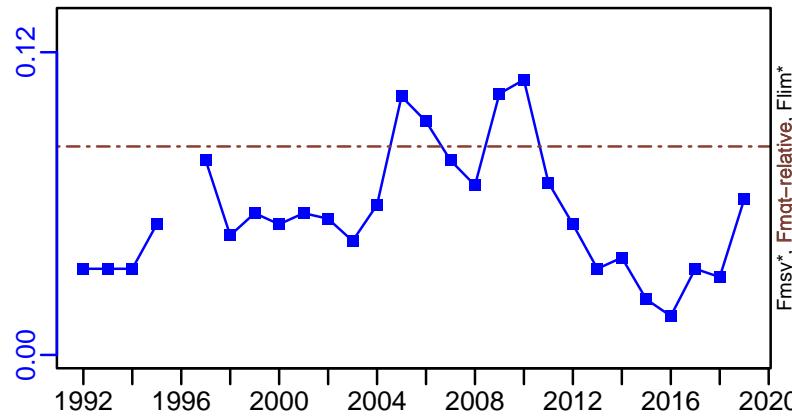
SSB-E00 (1992–2017–ICESIMP2018)



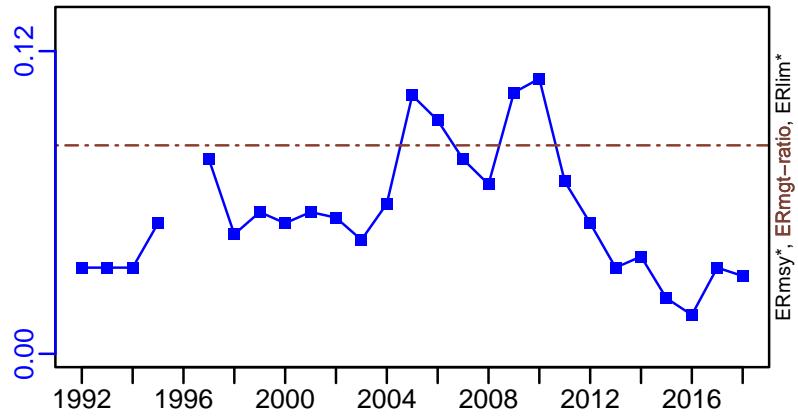
TN *



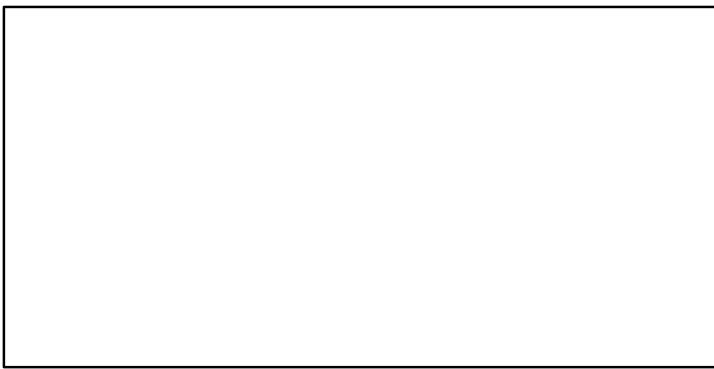
F-relative (1992–2020–ICESIMP2021–2)



ER-ratio (1992–2019–ICESIMP2021)



Recruits*

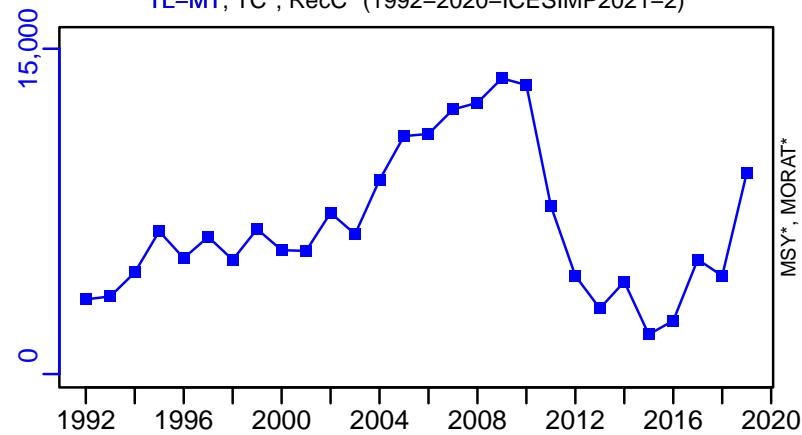


- Listed time series
- Target BRP
- MSY-based BRP
- Lim BRP
- Rec-Est
- * No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

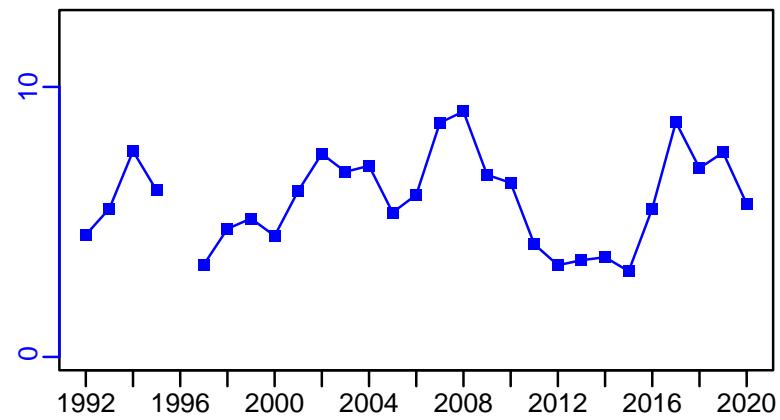
TL-MT, TC*, RecC* (1992–2020–ICESIMP2021-2)

TAC*, Cpair*, Cadv*



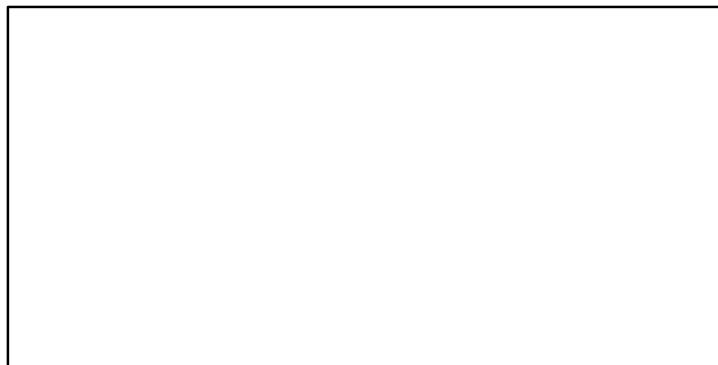
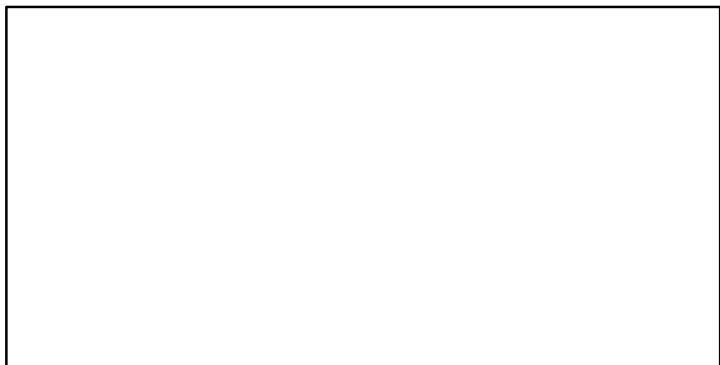
survB-E00 (1992–2020–ICESIMP2021-2)

CPUE*



EFFORT*

CdivMSY*



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

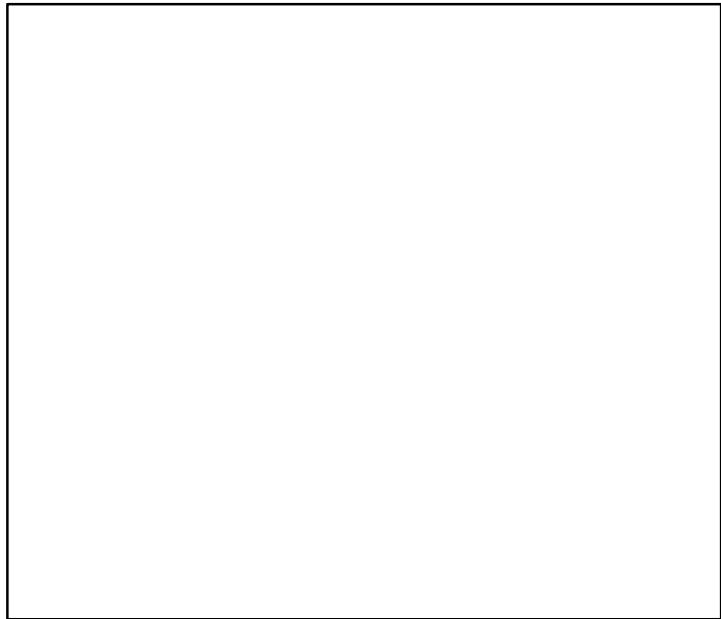
Norway lobster Firth of Forth (FU 8) [NEPHFU8]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU8-1993-2020-ICESIMP2021-2
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, 2020

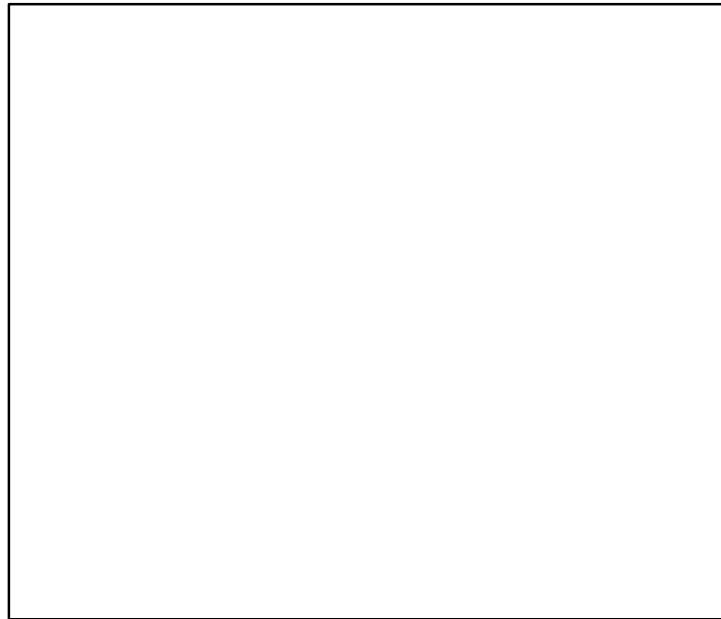
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.163
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2020	0.163
ERmgt	ERmgt-ratio	2019	0.163
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	F-relative	2020	0.183	-	-	
ER	ER-ratio	2019	0.129	-	-	
TC	-	-	-			
TL	TL-MT	2020	2680			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.031			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

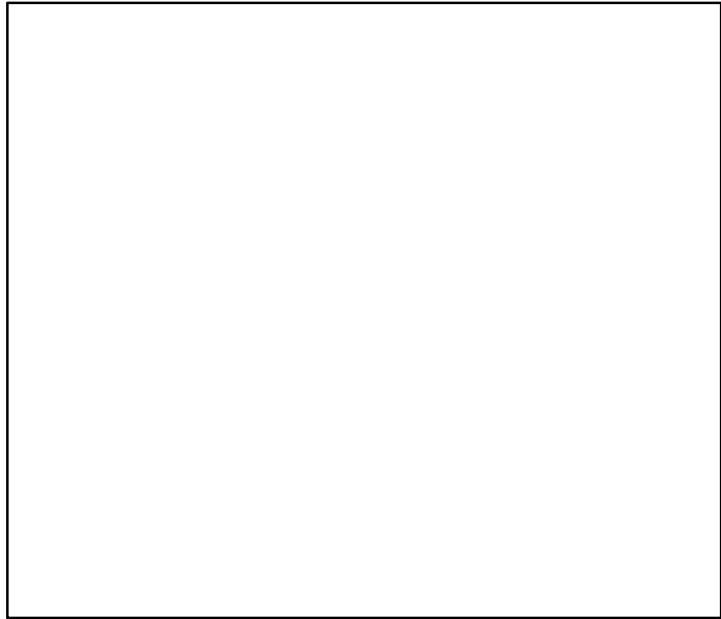
Kobe MSY*



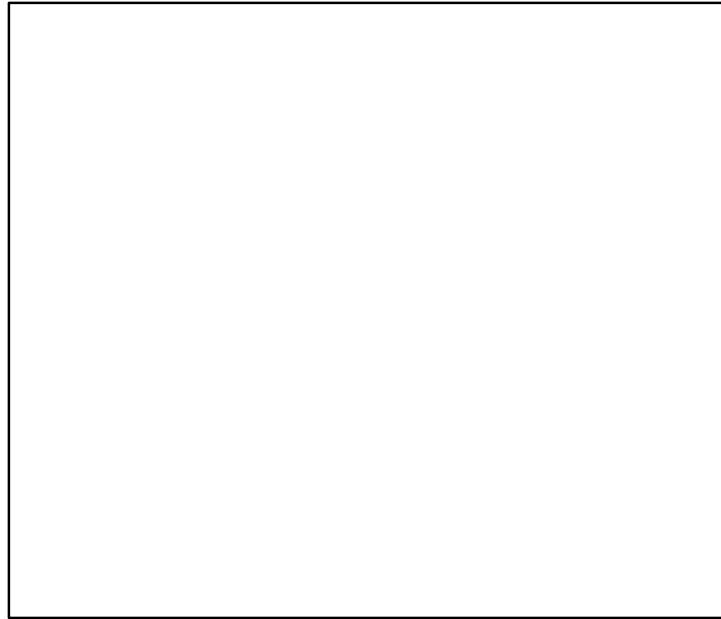
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

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

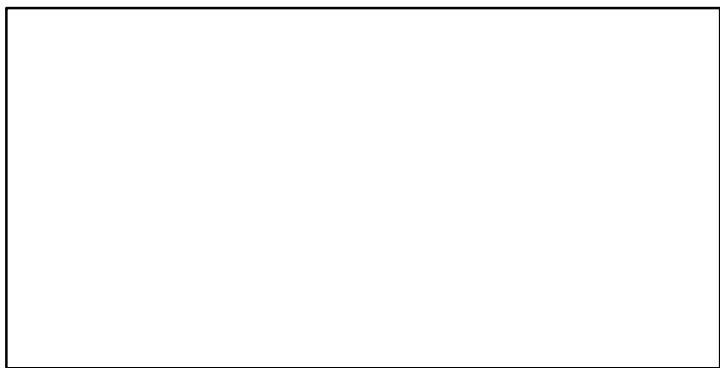
TB*



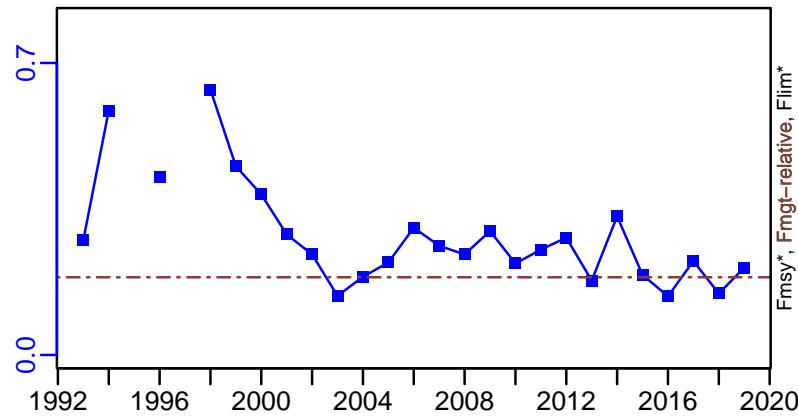
SSB*



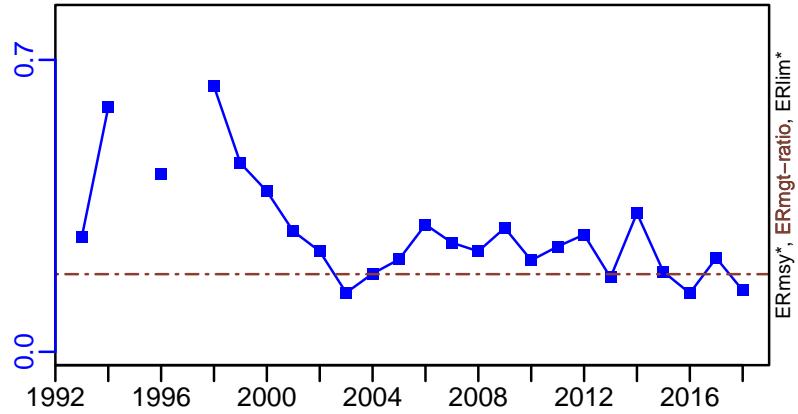
TN *



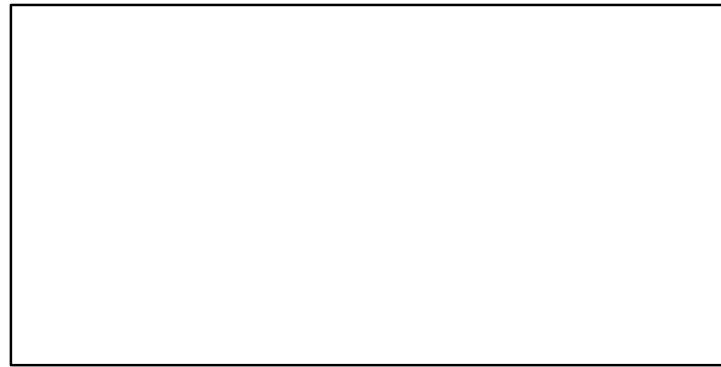
F-relative (1993–2020–ICESIMP2021–2)



ER-ratio (1993–2019–ICESIMP2021)



Recruits*

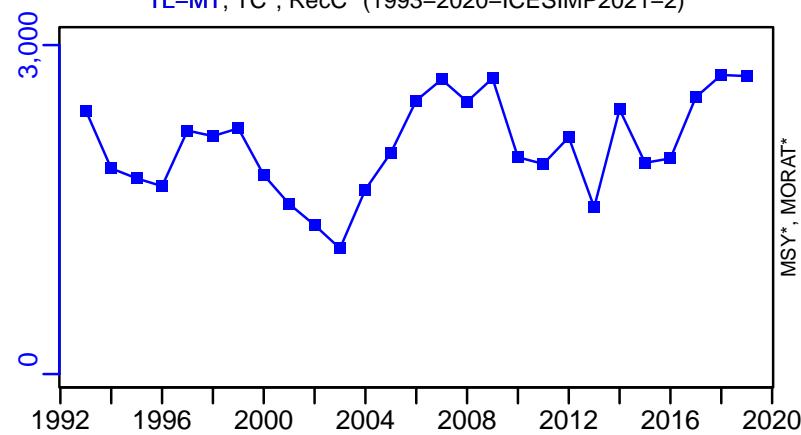


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

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

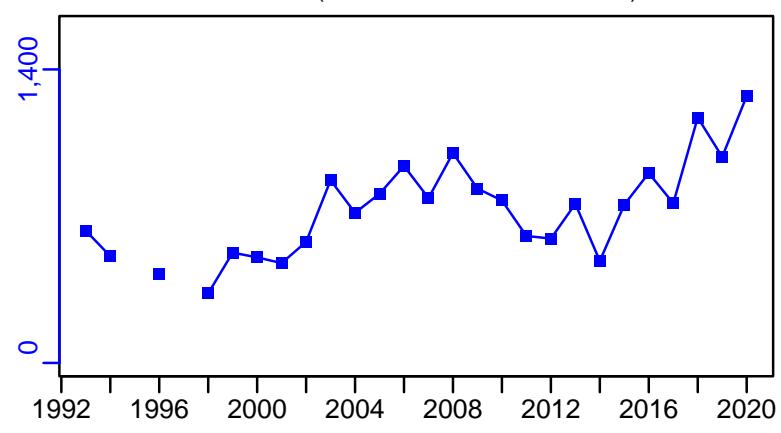
TL-MT, TC*, RecC* (1993–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



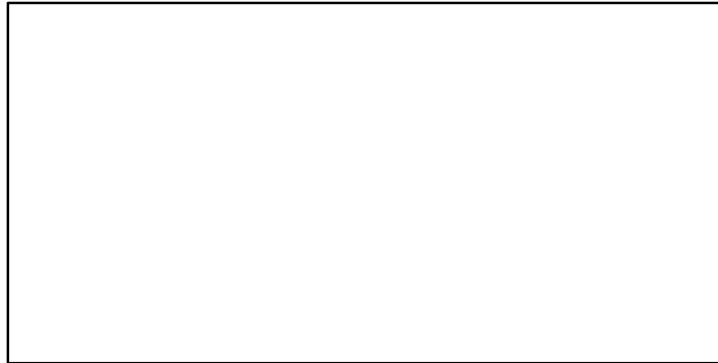
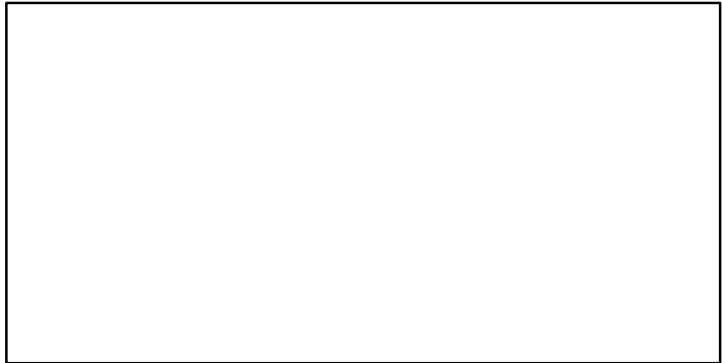
survB-E00 (1993–2020–ICESIMP2021–2)

CPUE*



EFFORT*

CdivMSY*



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

Norway lobster Moray Firth (FU 9) [NEPHFU9]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU9-1993-2019-ICESIMP2021-2
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, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2017	0.118
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2019	0.118
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	F-relative	2019	0.148	-	-
ER	ER-ratio	2018	0.117	-	-
TC	-	-	-		
TL	TL-MT	2019	1400		
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*

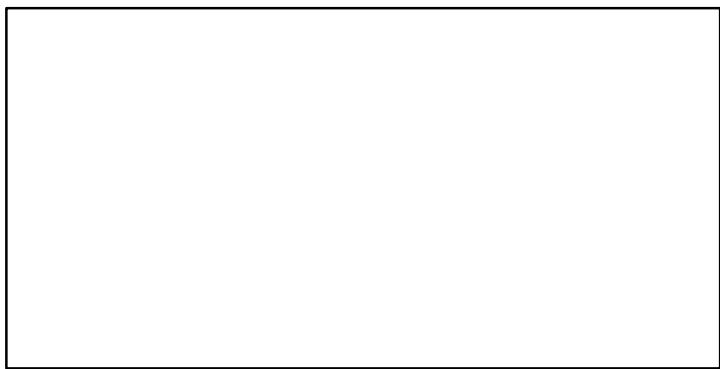
Spawner Recruit*

Production*

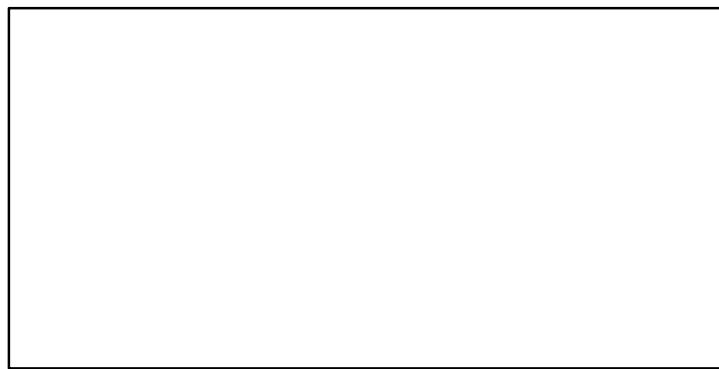
◆ Start Year ♦ End Year * No Data

Norway lobster Moray Firth (FU 9) [NEPHFU9]

TB*



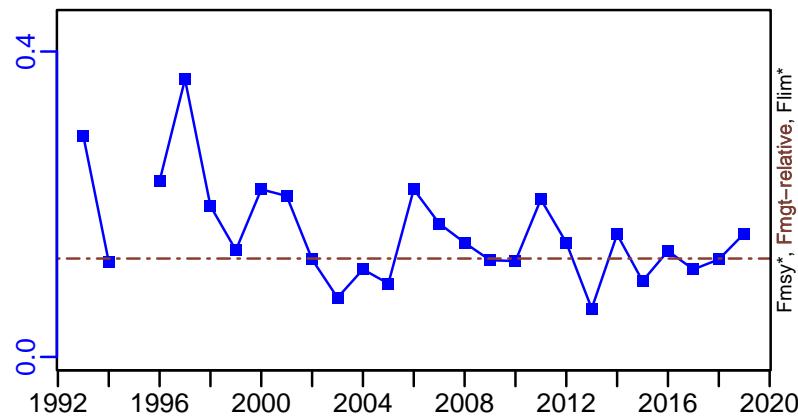
SSB*



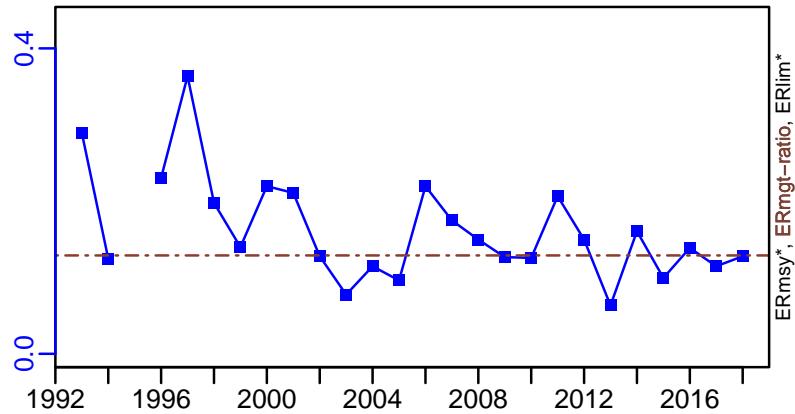
TN *



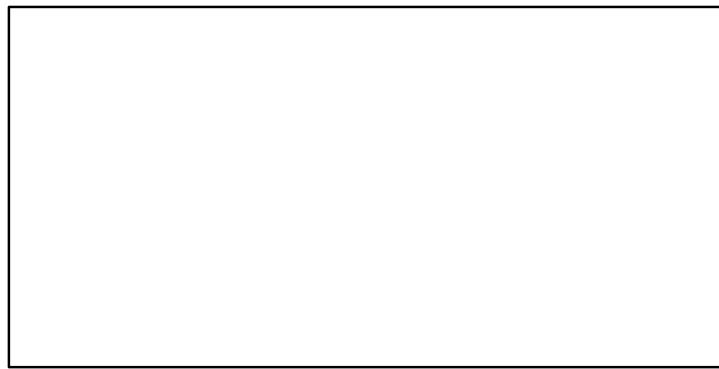
F-relative (1993–2019–ICESIMP2021–2)



ER-ratio (1993–2018–ICESIMP2021)



Recruits*

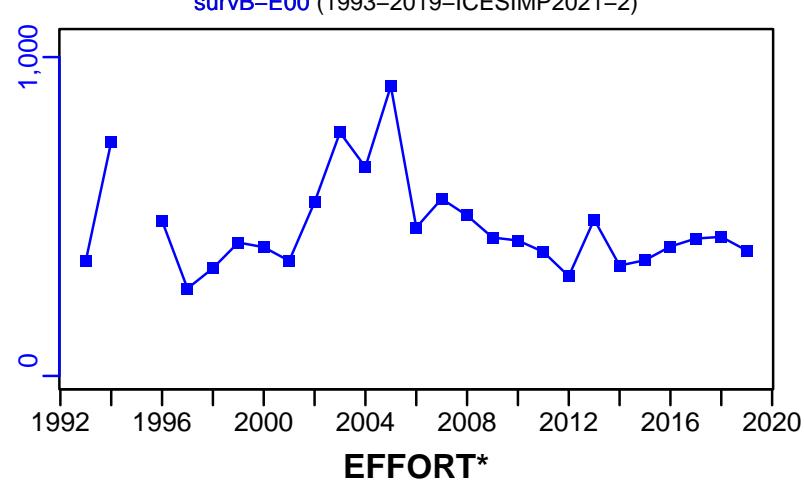
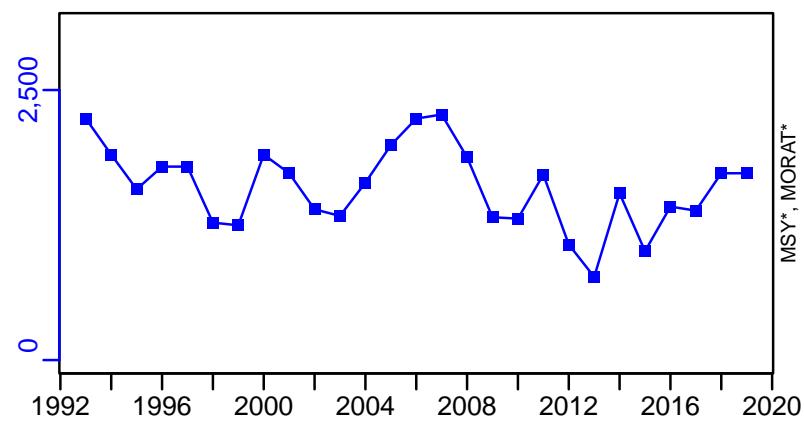


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | --- Lim BRP | * No Data |

Norway lobster Moray Firth (FU 9) [NEPHFU9]

TL-MT, TC*, RecC* (1993–2019–ICESIMP2021-2)

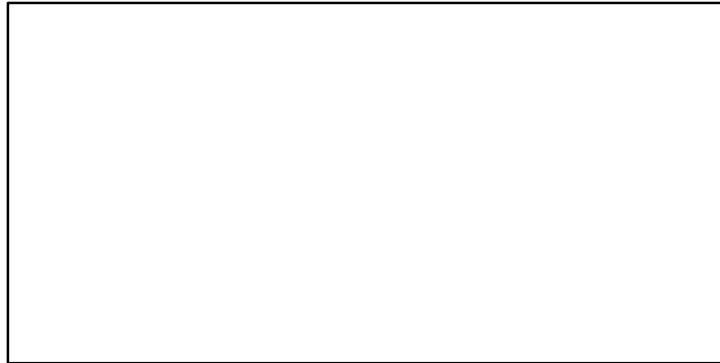
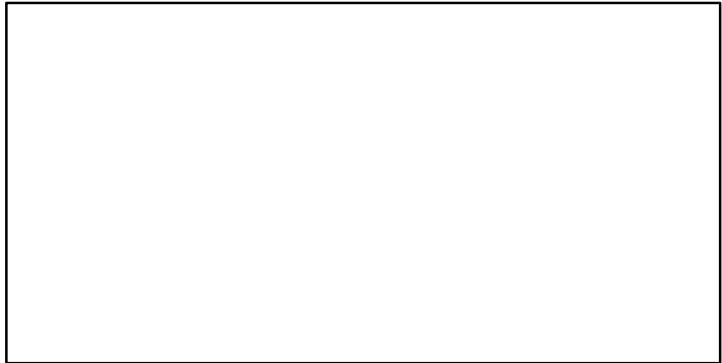
TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ■ 1st listed time series ● 2nd listed time series | <ul style="list-style-type: none"> ▲ 3rd listed time series ● 2nd listed time series | <ul style="list-style-type: none"> — MORAT - - - MSY |
| <ul style="list-style-type: none"> * No Data | | |

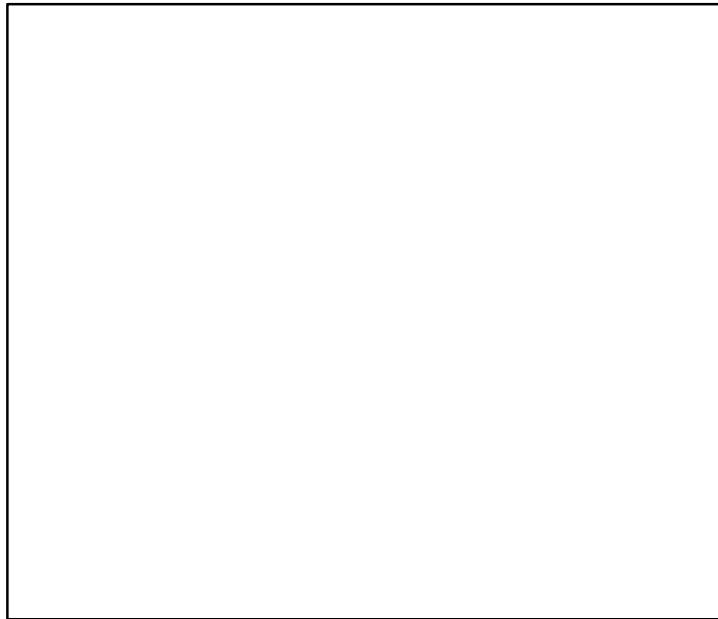
Norway lobster North Sea [NEPHIV]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHIV-2010-2019-ICESIMP2021-2
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016, 2019

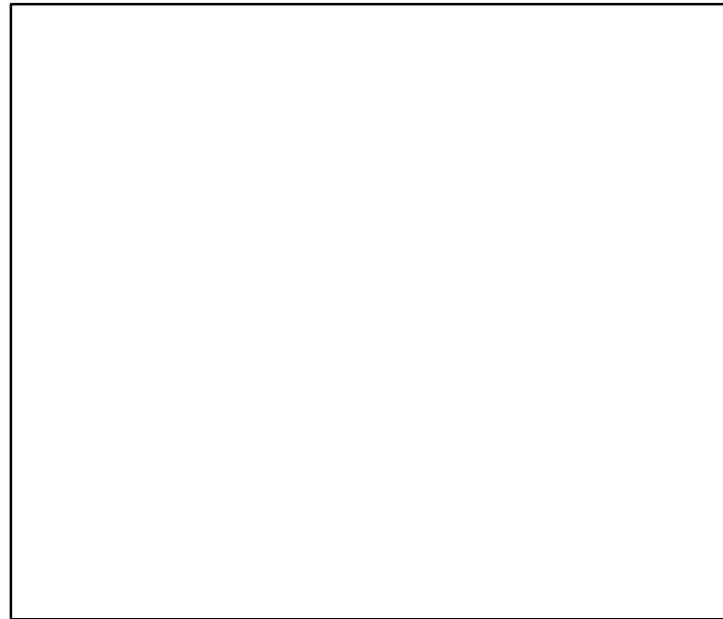
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	724		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

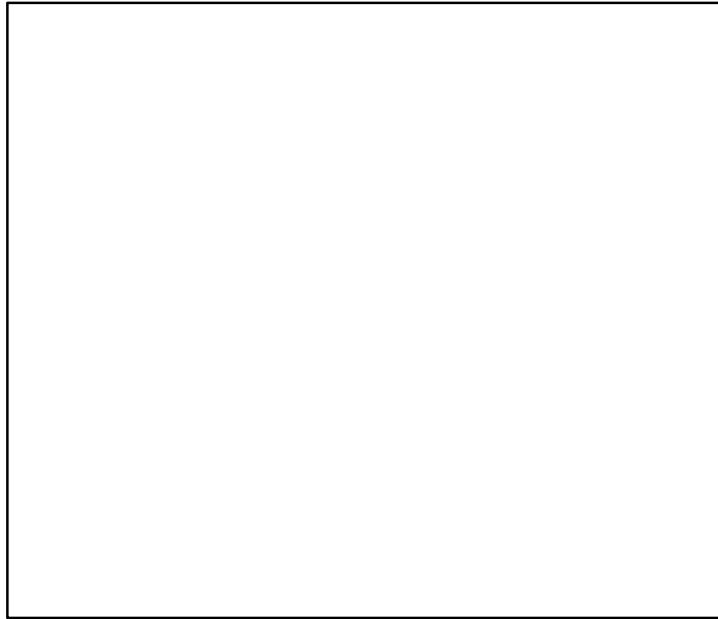
Kobe MSY*



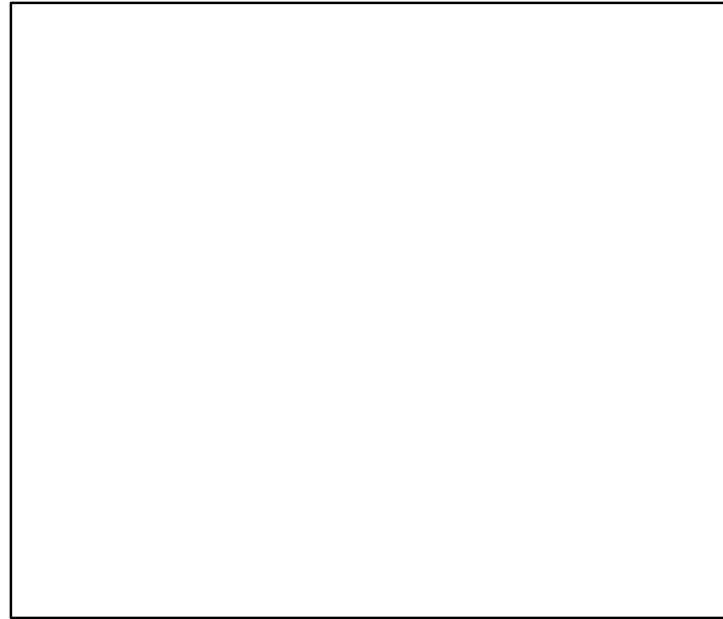
Kobe MGT*



Spawner Recruit*



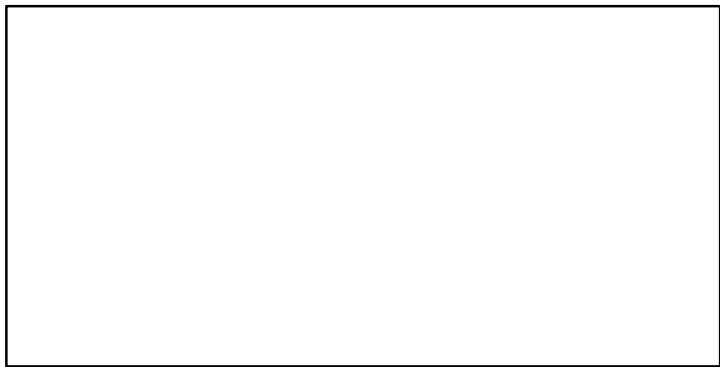
Production*



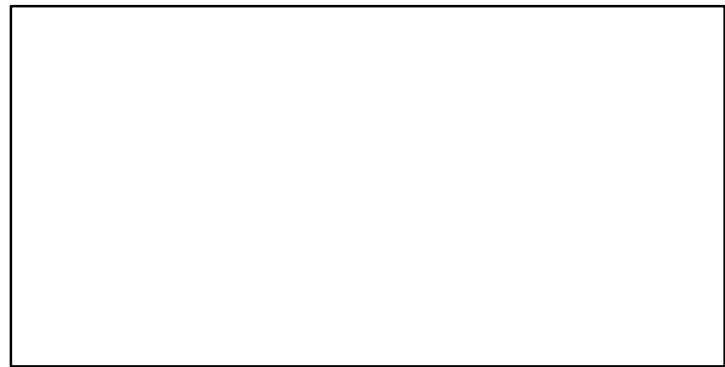
◆ Start Year ♦ End Year * No Data

Norway lobster North Sea [NEPHIV]

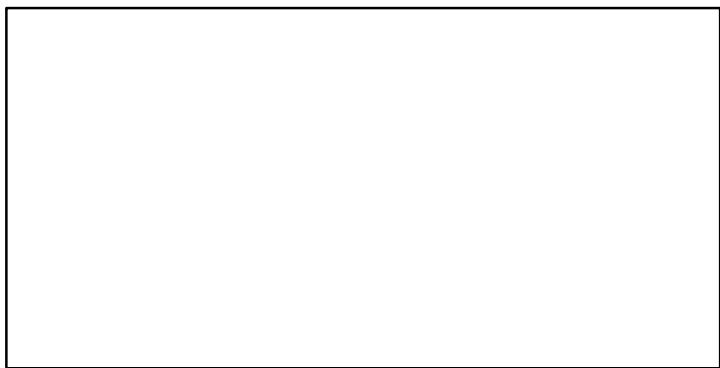
TB*



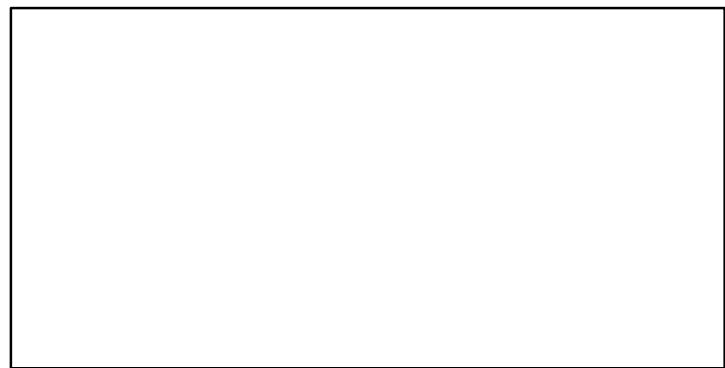
SSB*



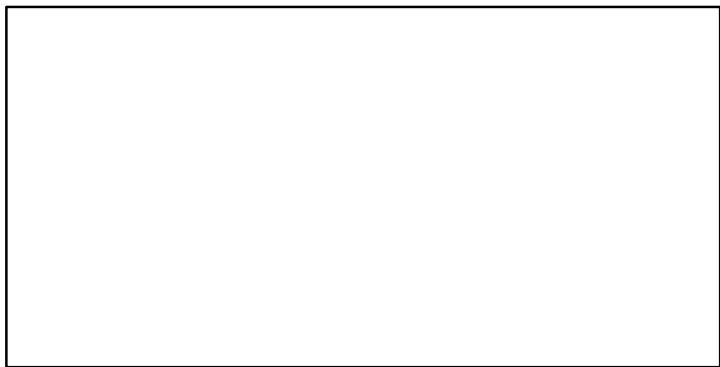
TN *



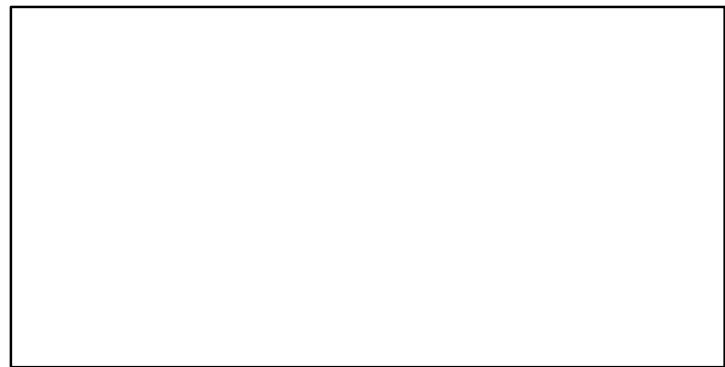
F*



ER*



Recruits*

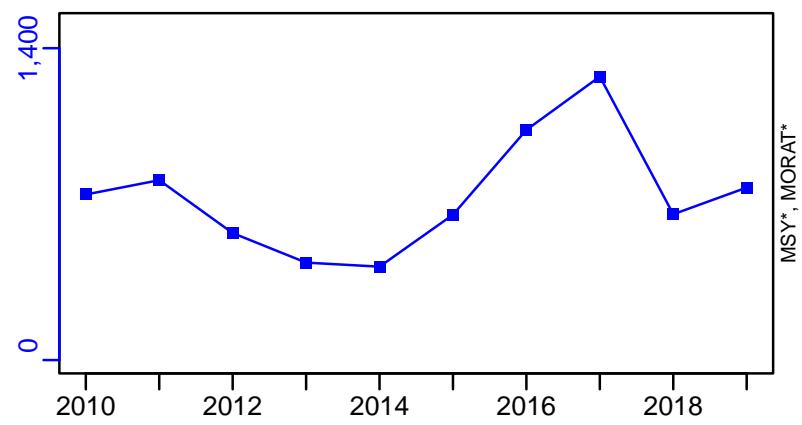


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

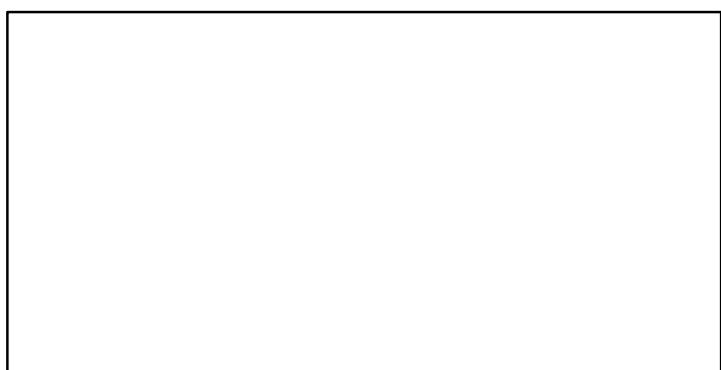
Norway lobster North Sea [NEPHIV]

TL-MT, TC*, RecC* (2010–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



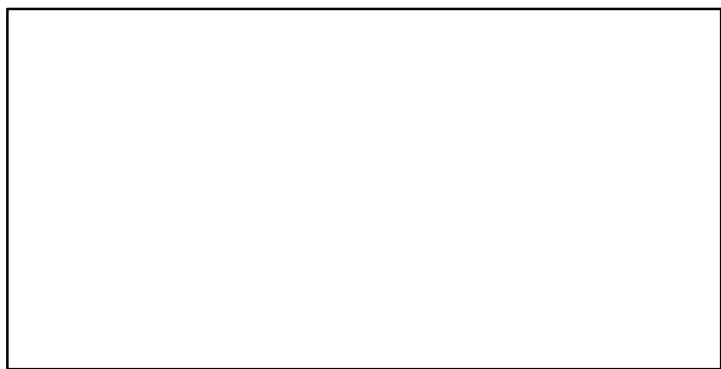
survB*



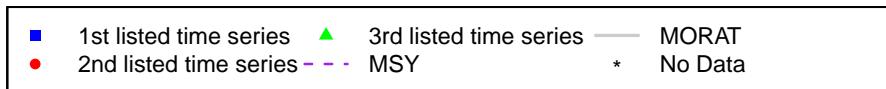
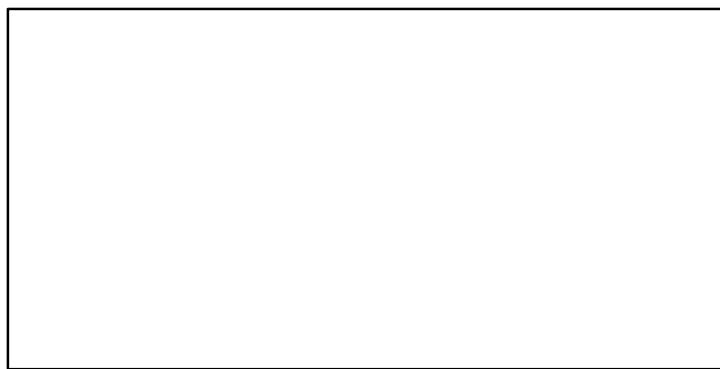
CPUE*



EFFORT*



CdivMSY*



Norway lobster West of Scotland [NEPHV1a]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHV1a-1981-2019-ICESIMP2021-2
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	173		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

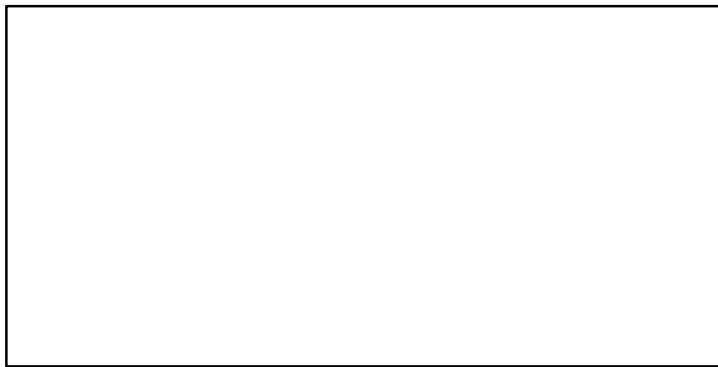
Spawner Recruit*

Production*

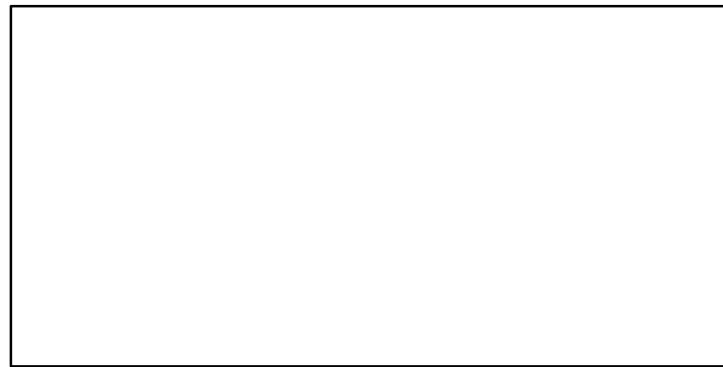
◆ Start Year ♦ End Year * No Data

Norway lobster West of Scotland [NEPHVla]

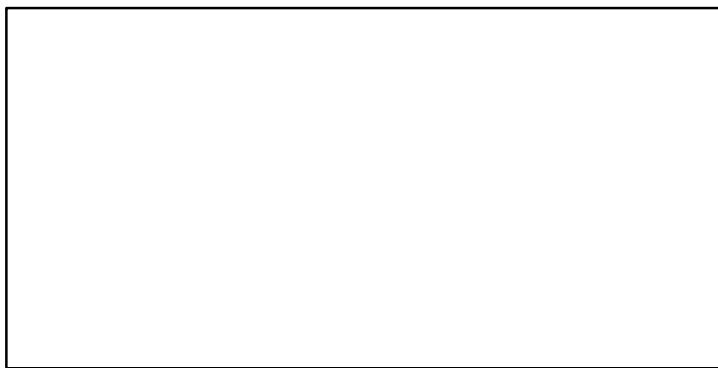
TB*



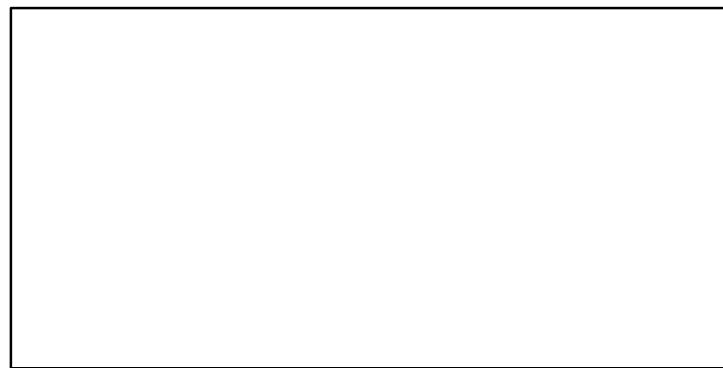
SSB*



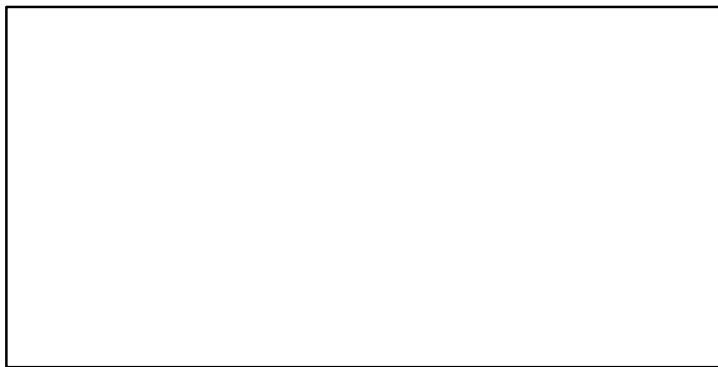
TN *



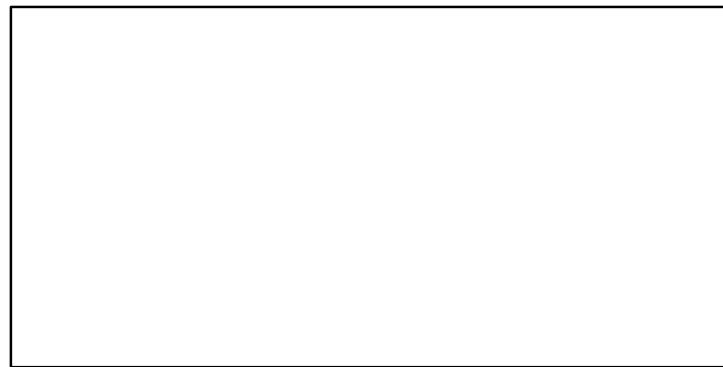
F*



ER*



Recruits*

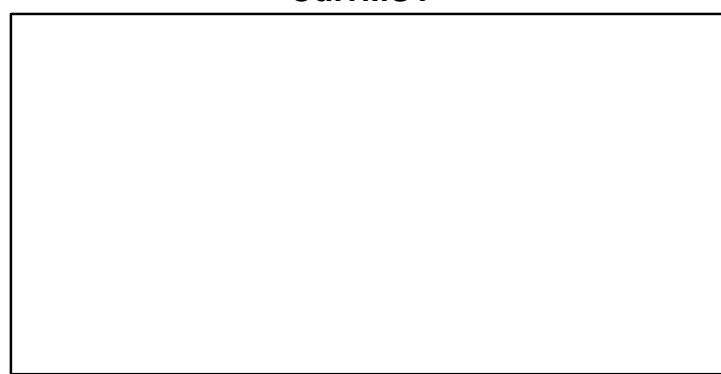
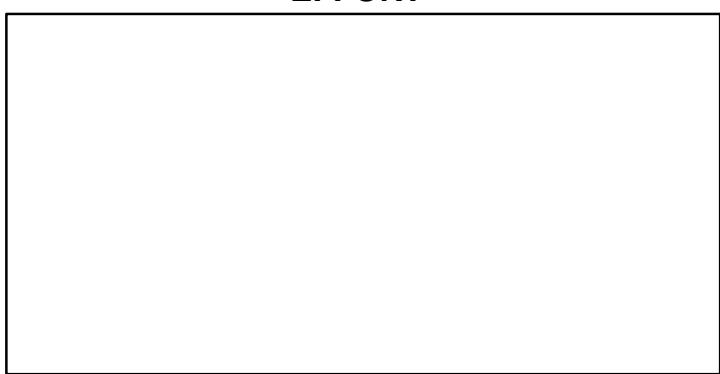
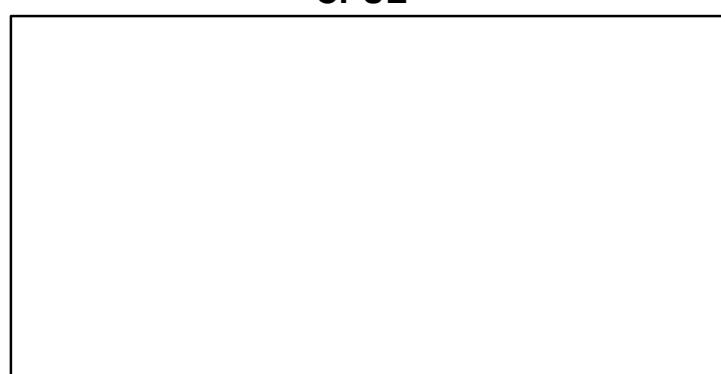
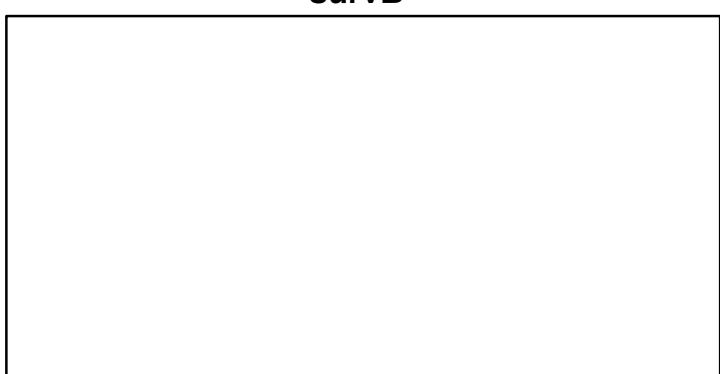
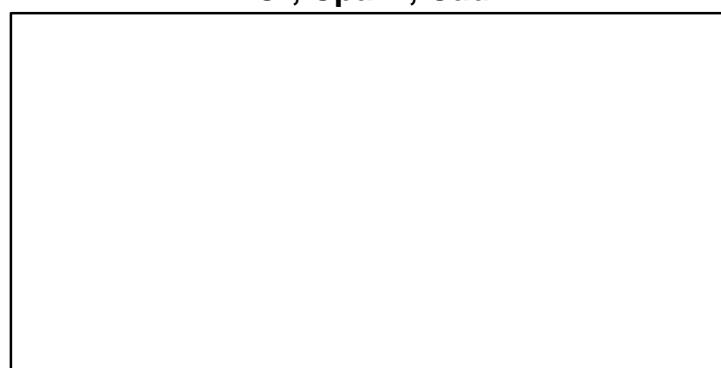
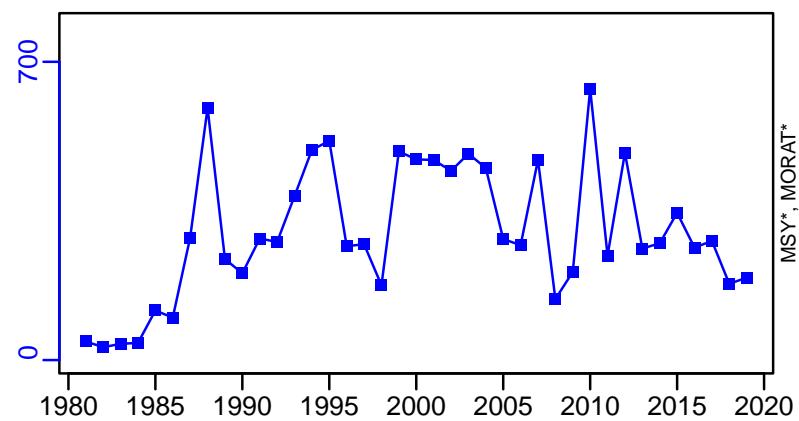


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Norway lobster West of Scotland [NEPHVla]

TL-MT, TC*, RecC* (1981–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



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

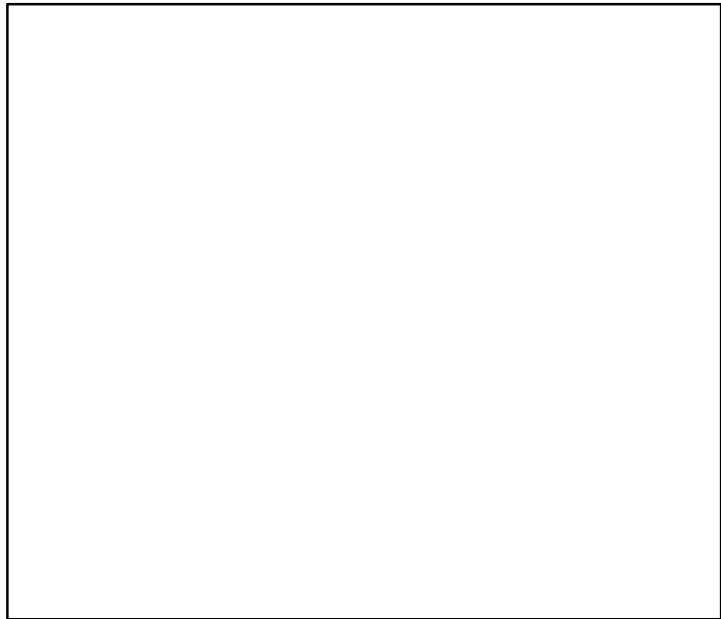
Norway lobster ICES 7 [NEPHVII]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHVII-1978-2019-ICESIMP2021-2
Area	ICES 7
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2019, 2014

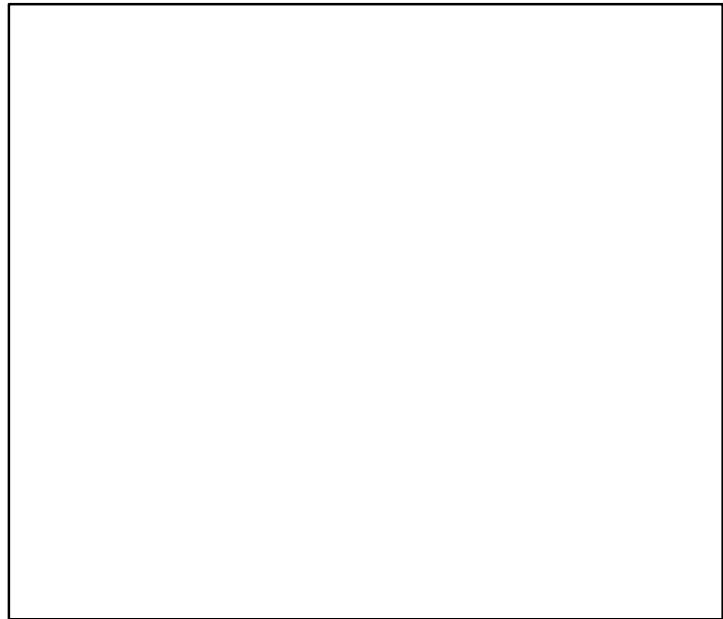
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	242		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

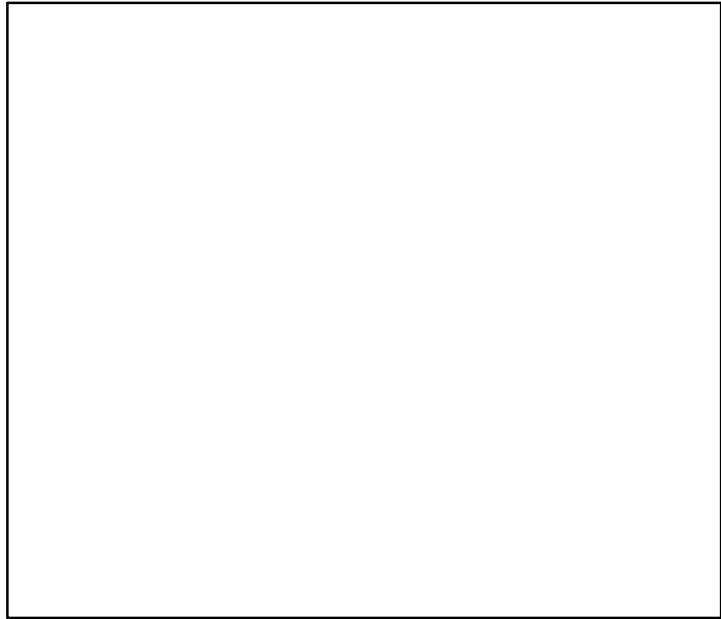
Kobe MSY*



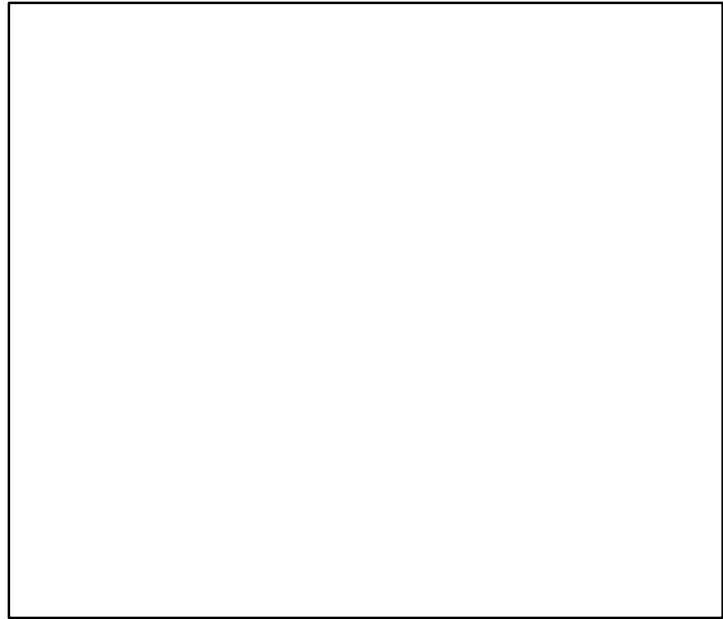
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

TB*



SSB*



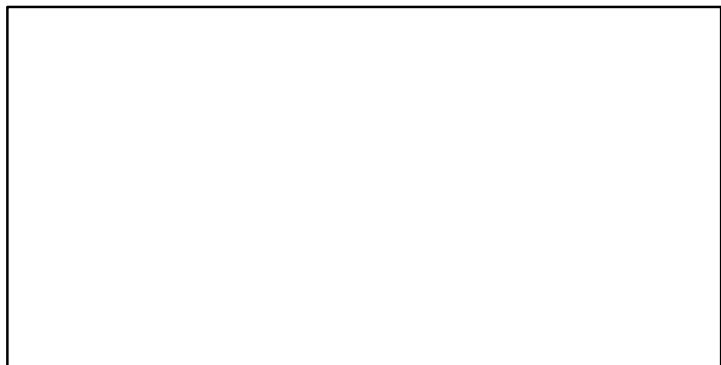
TN *



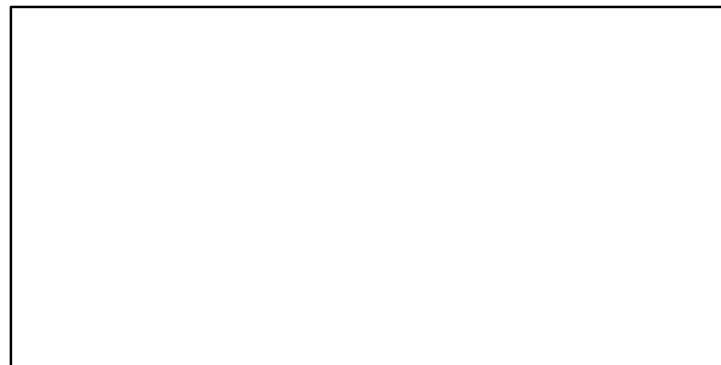
F*



ER*



Recruits*

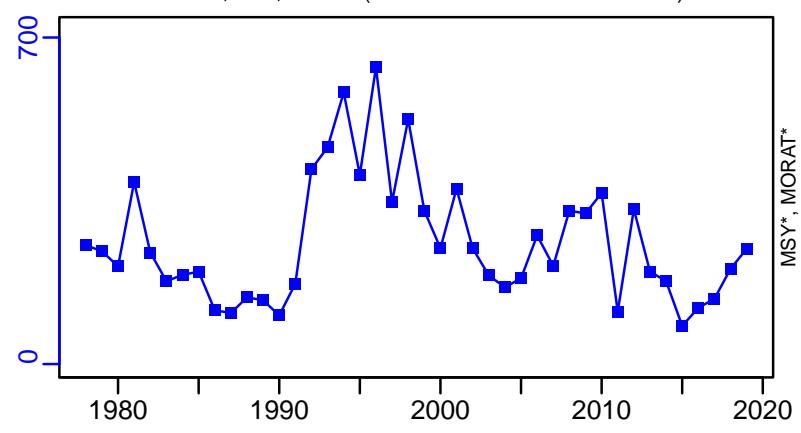


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Norway lobster ICES 7 [NEPHVII]

TL-MT, TC*, RecC* (1978–2019–ICESIMP2021–2)

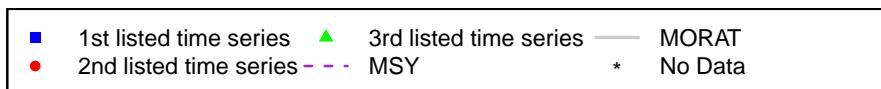
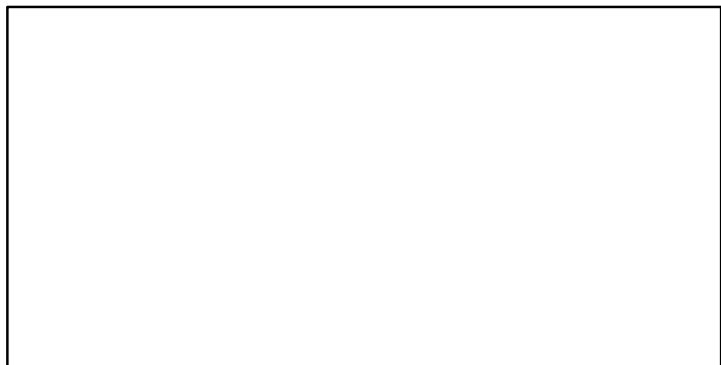
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



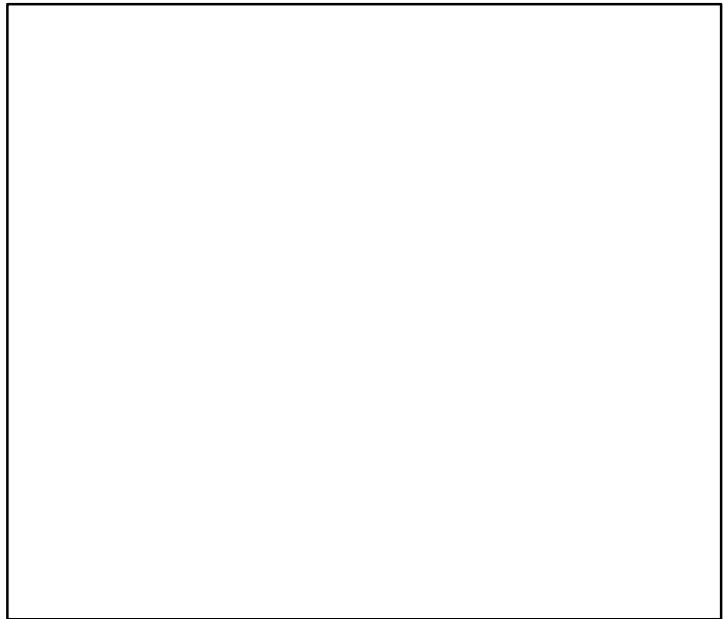
Norway lobster ICES 8ab [NEPHVIIlab]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHVIIlab-1987-2020-ICESIMP2021-2
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2019, 2020

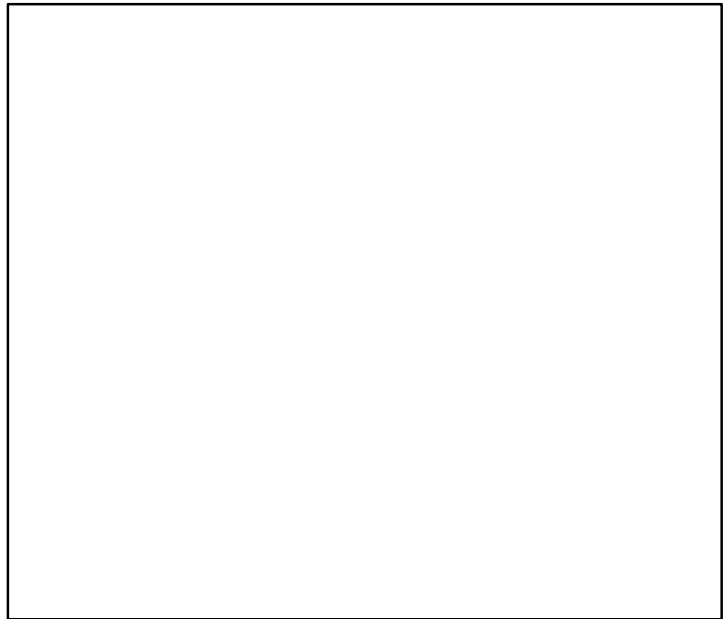
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	7.7
ERmsy	ERmsy-ratio	2020	7.7
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	7.7
ERmgt	ERmgt-ratio	2020	7.7
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	2020	3.07	-	-
TC	TC-MT	2020	2790		
TL	TL-MT	2020	2150		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.779		
ER/ERmsy	ER-ratio/ERmsy-ratio	2020	0.399		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.779		
ER/ERmgt	-	-	-		

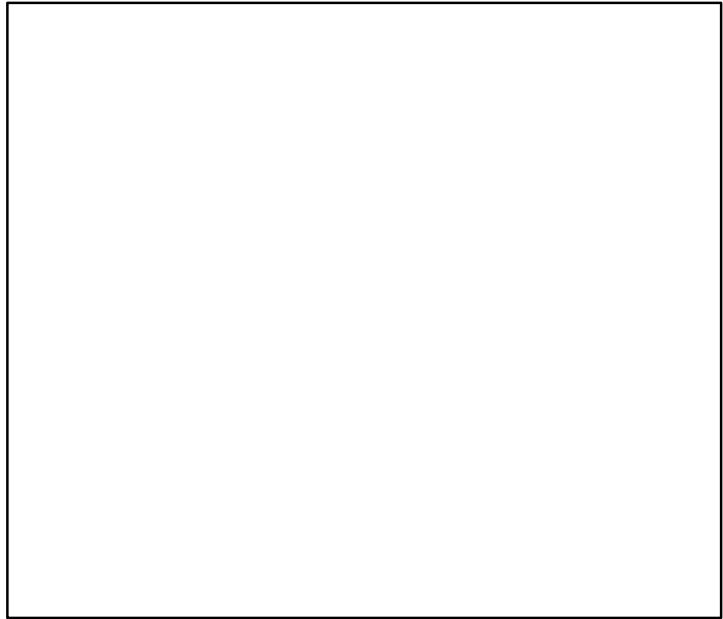
Kobe MSY*



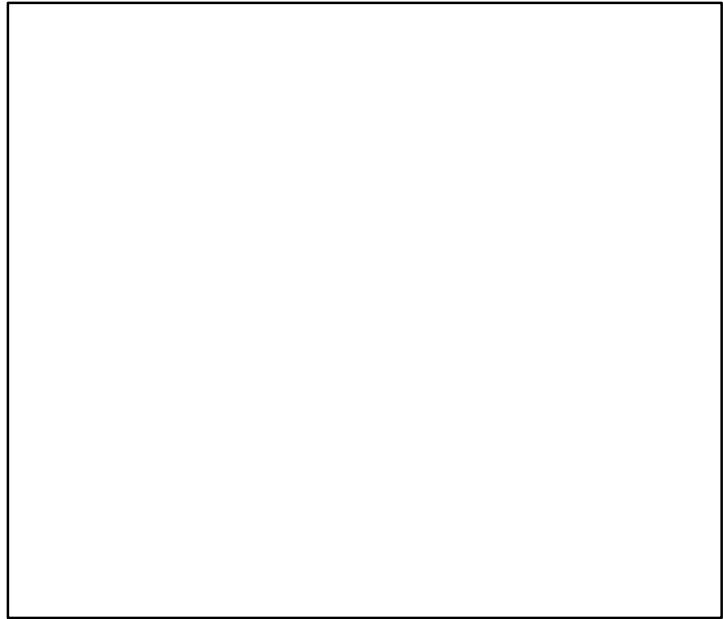
Kobe MGT*



Spawner Recruit*



Production*



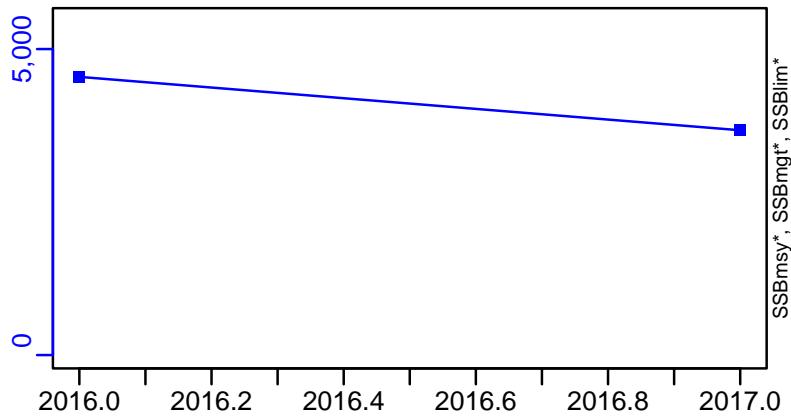
◆ Start Year ♦ End Year * No Data

Norway lobster ICES 8ab [NEPHVIIlab]

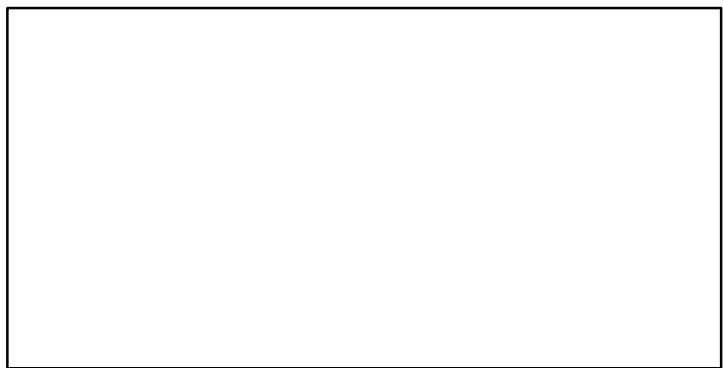
TB*



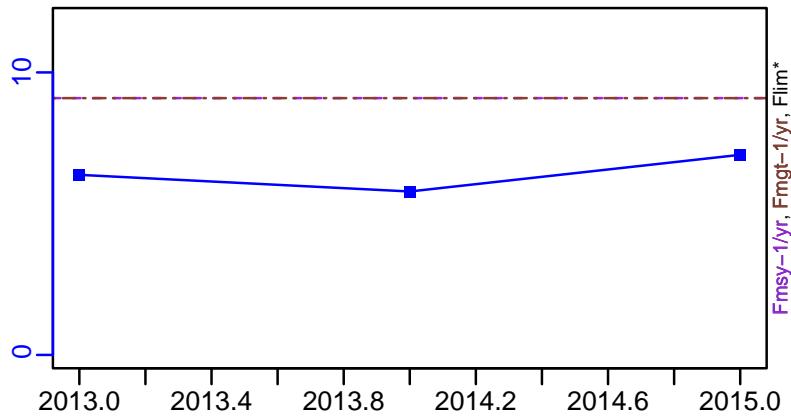
SSB-E00 (1987–2017–ICESIMP2018)



TN *

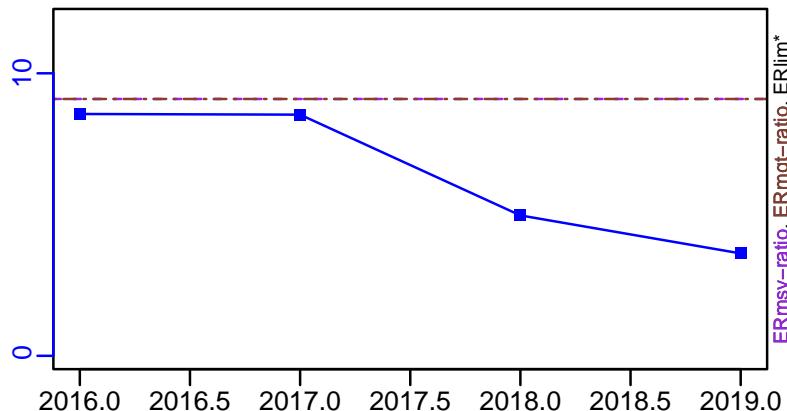


F-1/yr (1987–2016–ICESIMP2018)

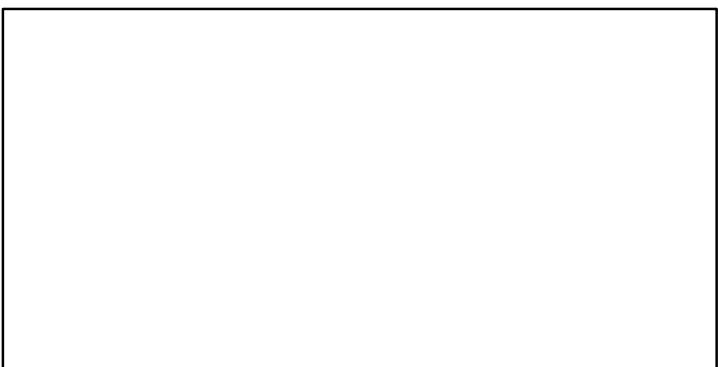


ER-ratio (1987–2020–ICESIMP2021–2)

ER_{msy}-ratio, ER_{mgt}-ratio, ER_{lim}*



Recruits*

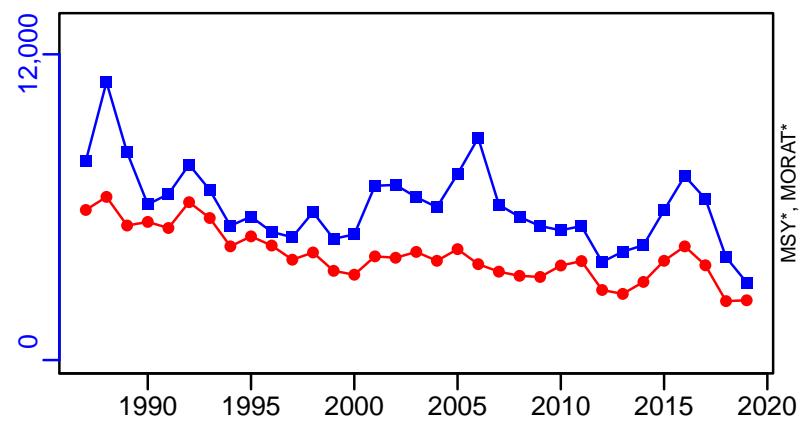


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

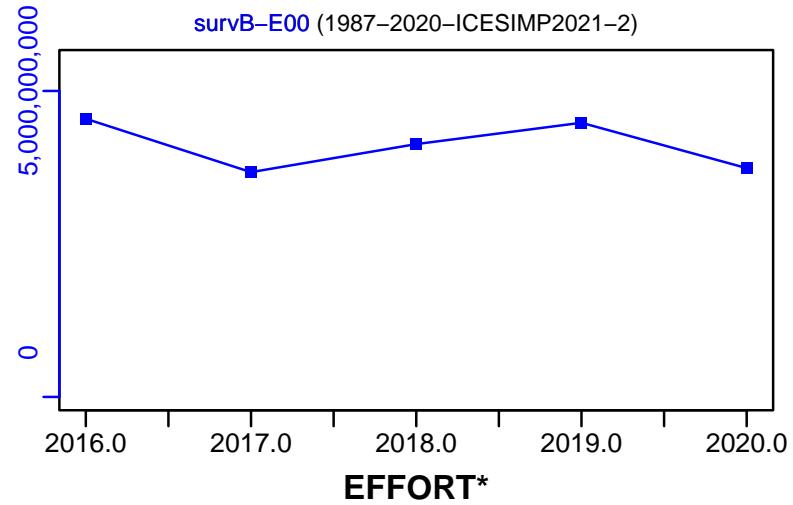
Norway lobster ICES 8ab [NEPHVIIlab]

TC-MT, TL-MT, RecC* (1987–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB-E00 (1987–2020–ICESIMP2021–2)



EFFORT*

CPUE*

CdivMSY*

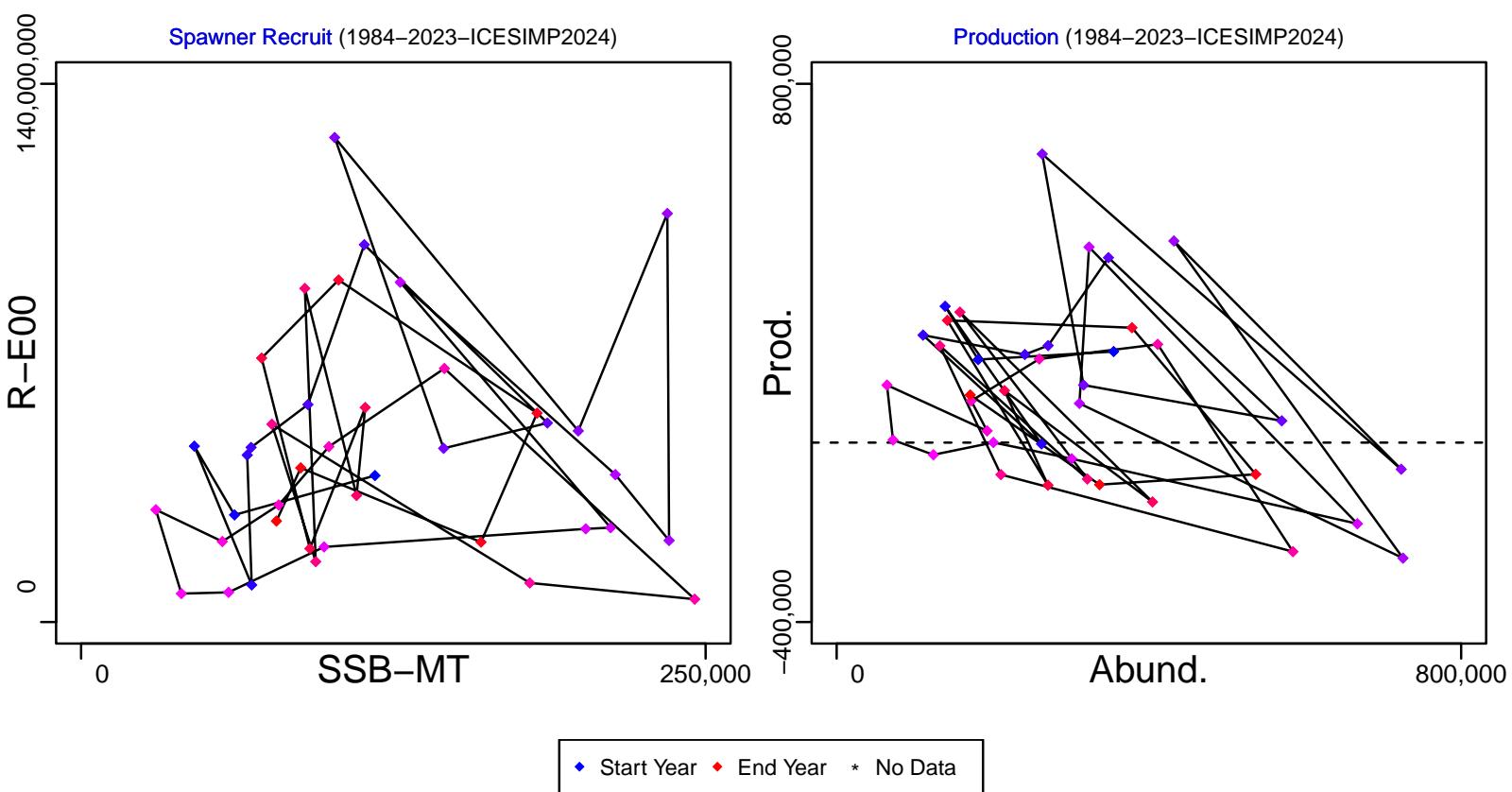
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

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

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTIIla-IV-1984-2023-ICESIMP2024
Area	ICES 3a-4
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2017, 2019, 2020, 2021, 2023

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

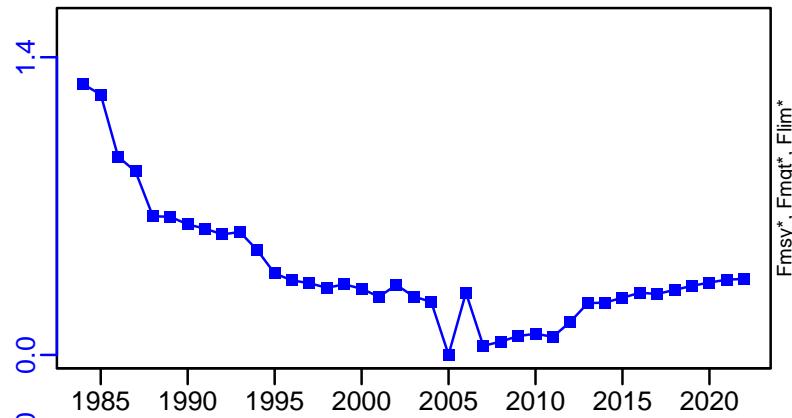
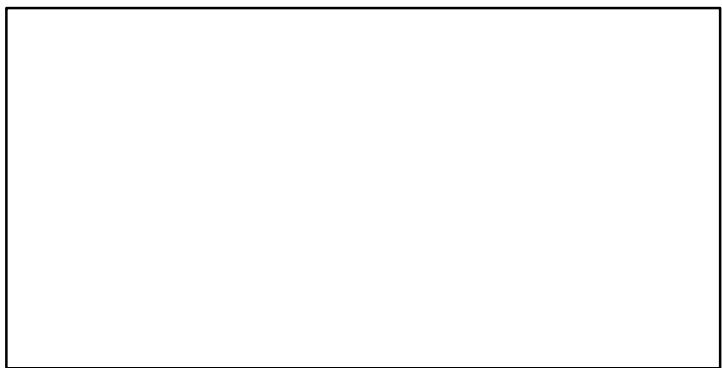
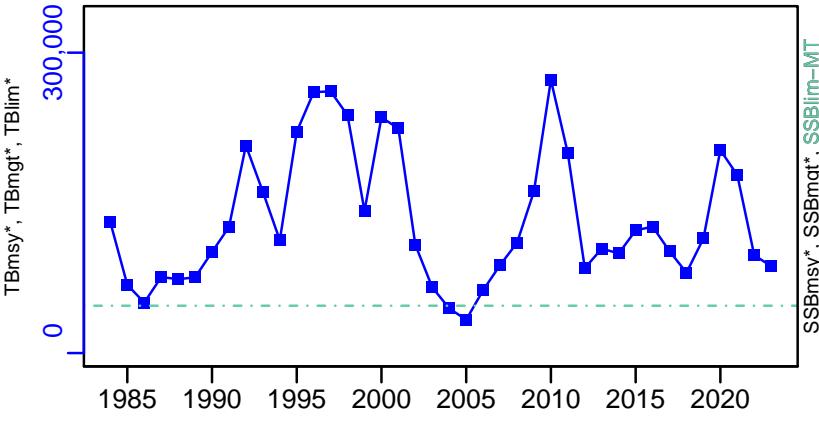
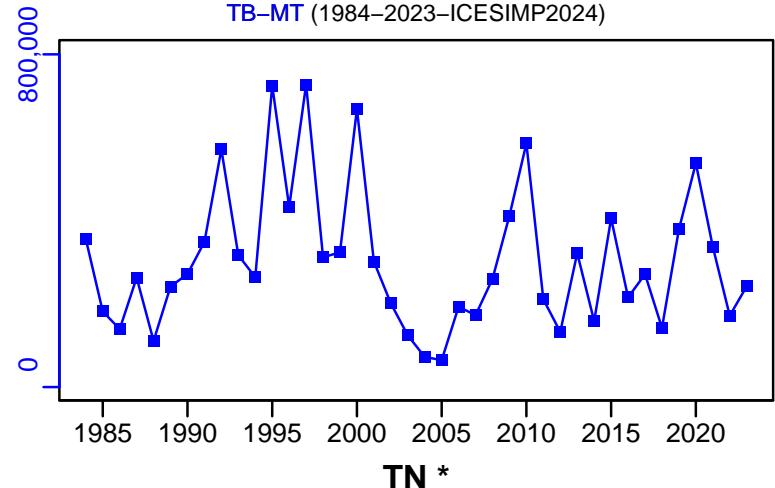
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	241,655	-	-	
SSB	SSB-MT	2023	78,191	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	26,260,000	-	0	
F	F-1/yr	2023	0.319	-	1 to 2	
ER	ER-calc-ratio	2023	0.066	-	-	
TC	TC-MT	2017	30,100			
TL	TL-MT	2023	16,046			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-	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

Kobe MSY***Kobe MGT***

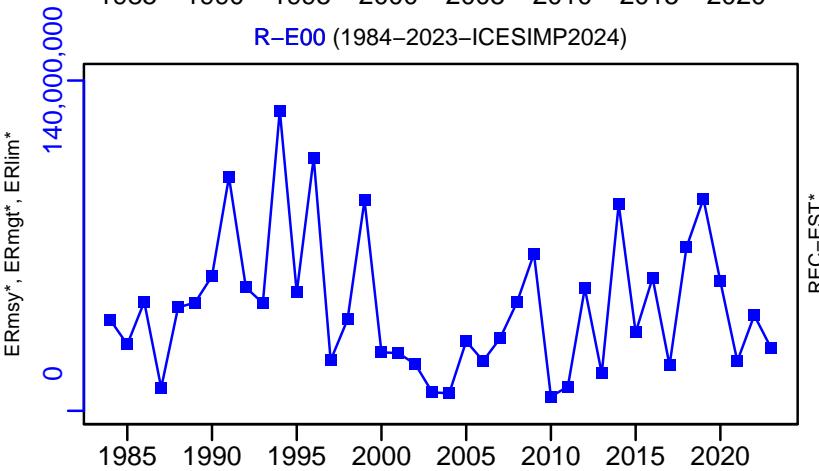
Norway pout ICES 3a–4 [NPOUTIIIa–IV]

TB-MT (1984–2023–ICESIMP2024)

SSB-MT (1984–2023–ICESIMP2024)



ER-calc-ratio (1984–2023–ICESIMP2024)

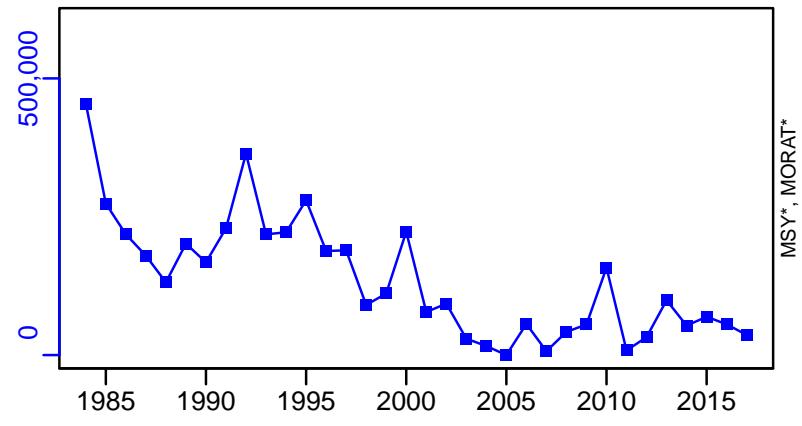


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Norway pout ICES 3a–4 [NPOUTIIIa–IV]

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

TAC*, Cpair*, Cadv*



survB*

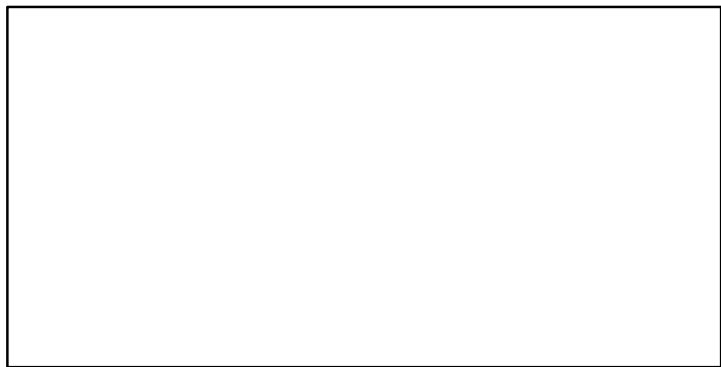
MSY*, MORAT*



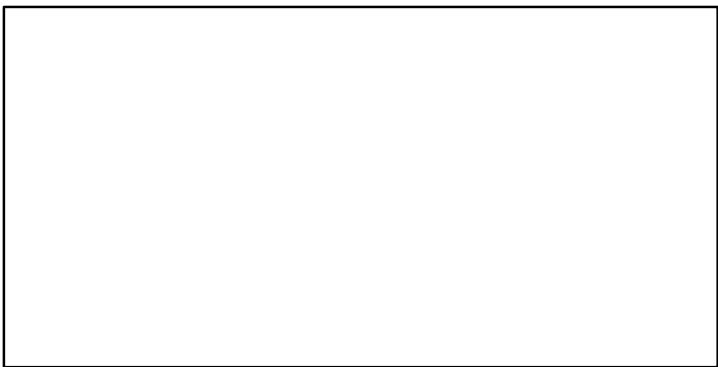
CPUE*



EFFORT*



CdivMSY*



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

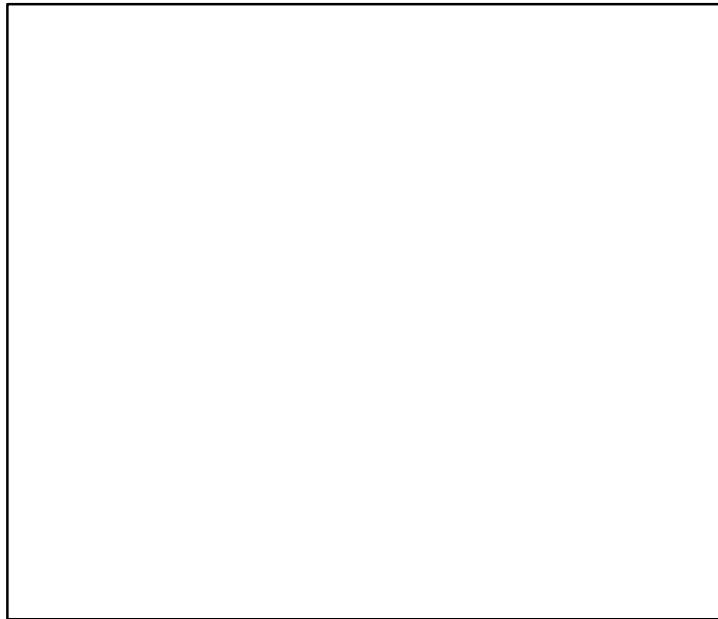
Norway pout West of Scotland [NPOUTVla]

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTVla-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

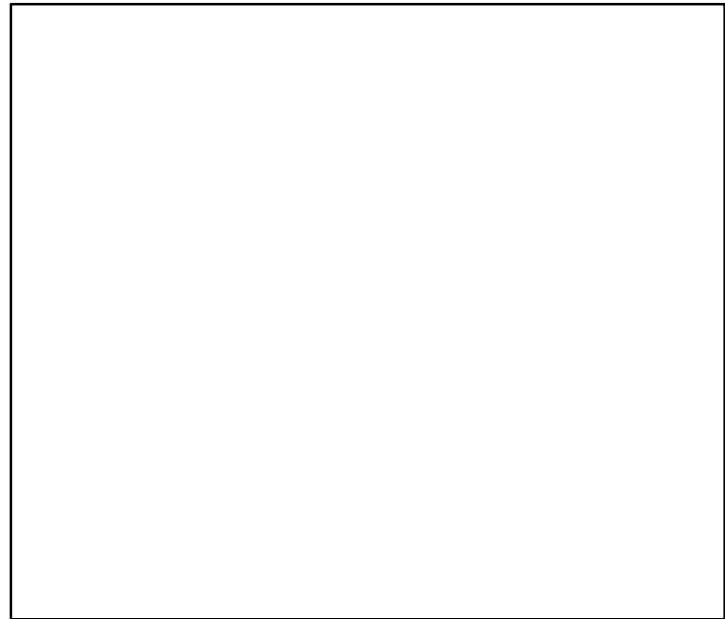
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

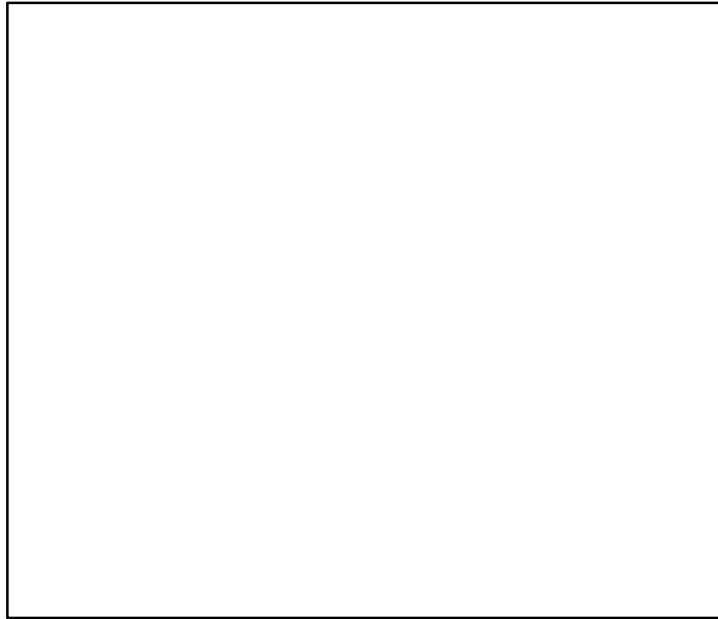
Kobe MSY*



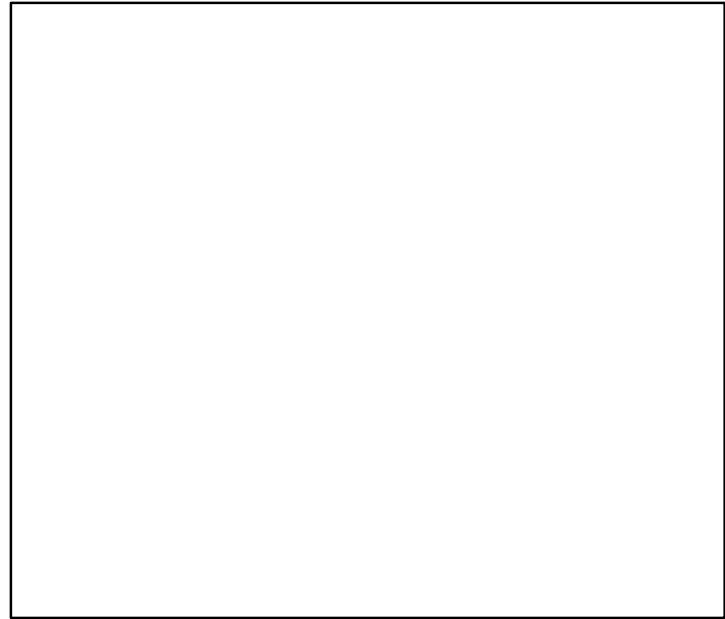
Kobe MGT*



Spawner Recruit*



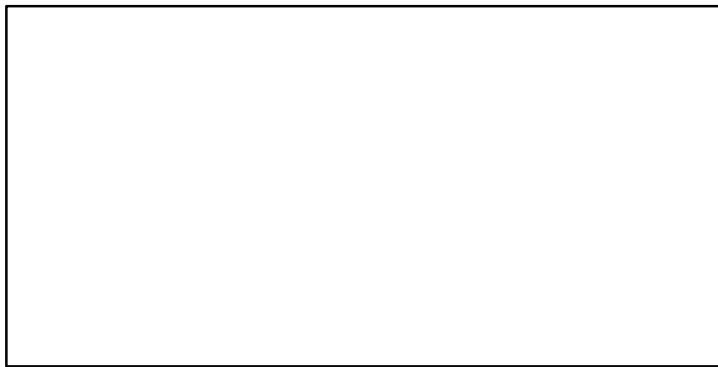
Production*



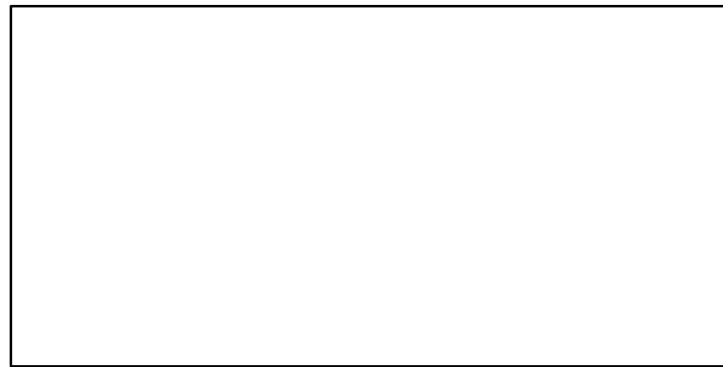
◆ Start Year ♦ End Year * No Data

Norway pout West of Scotland [NPOUTVla]

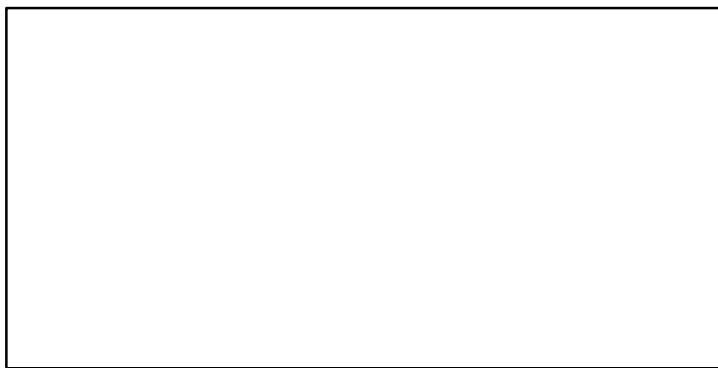
TB*



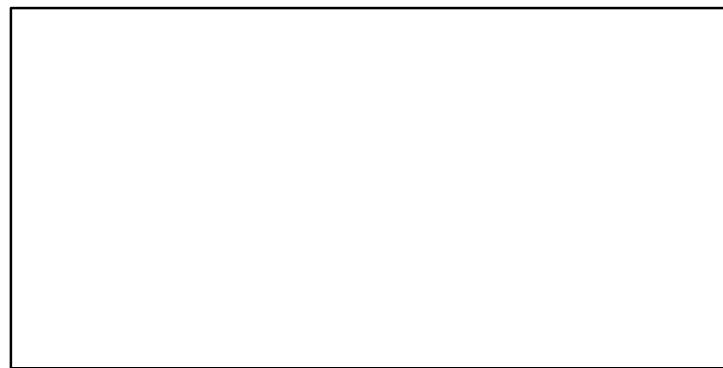
SSB*



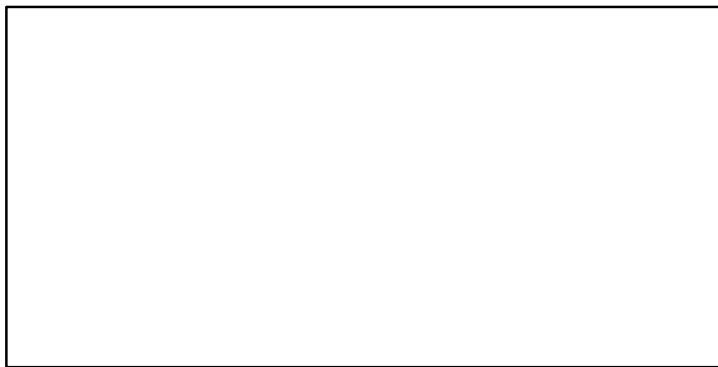
TN *



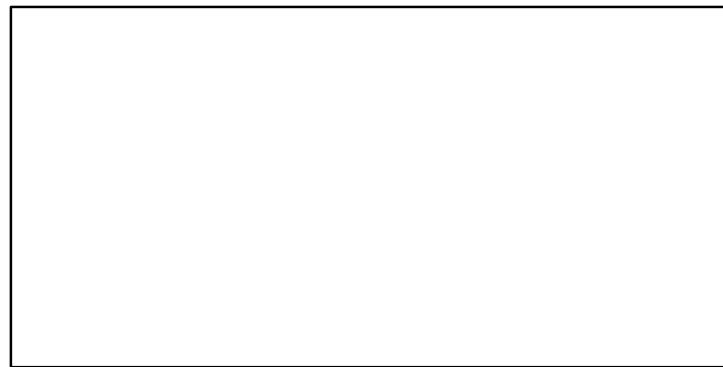
F*



ER*



Recruits*

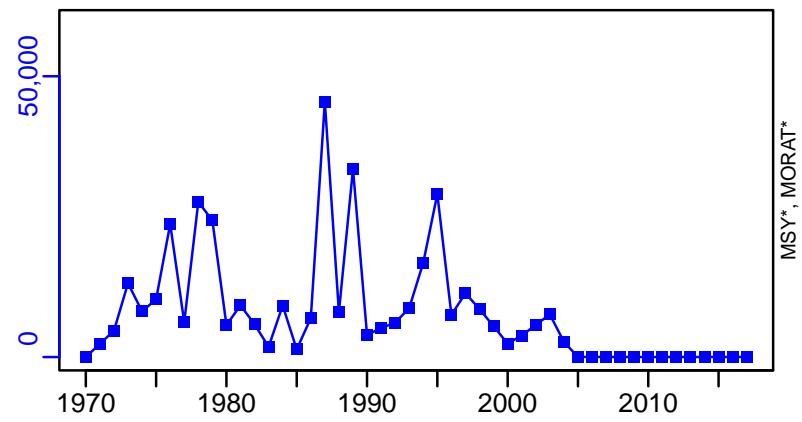


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Norway pout West of Scotland [NPOUTVla]

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

TAC*, Cpair*, Cadv*



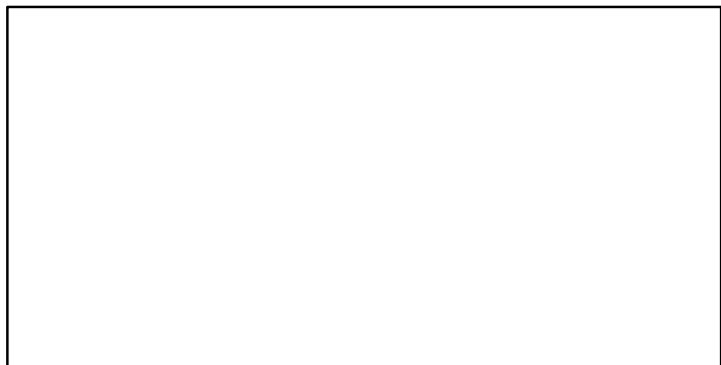
survB*



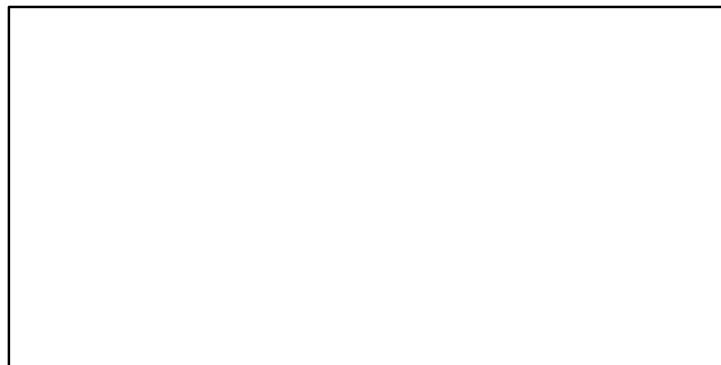
CPUE*



EFFORT*



CdivMSY*



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

Orange roughy Northeast Atlantic [OROUGHYNEATL]

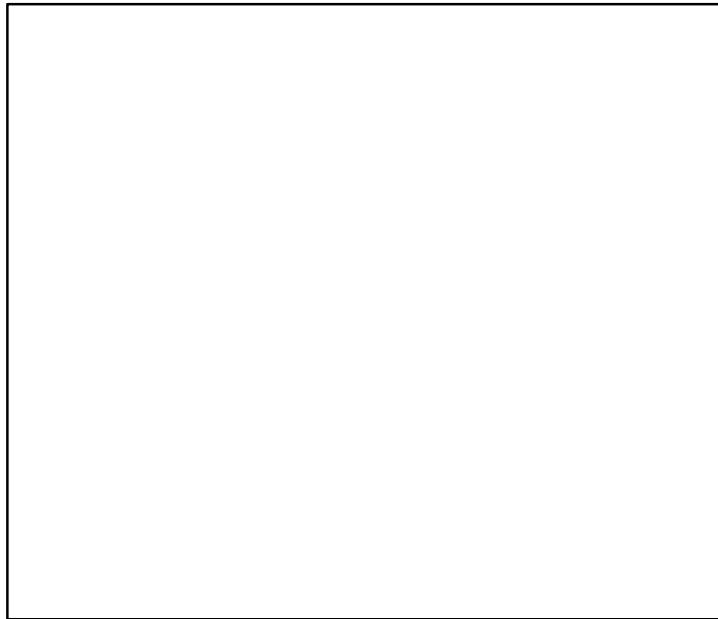
Metadata	
Scientific Name	Hoplostethus atlanticus
Current Assess ID	WGDEEP-OROUGHYNEATL-1988-2019-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2019

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

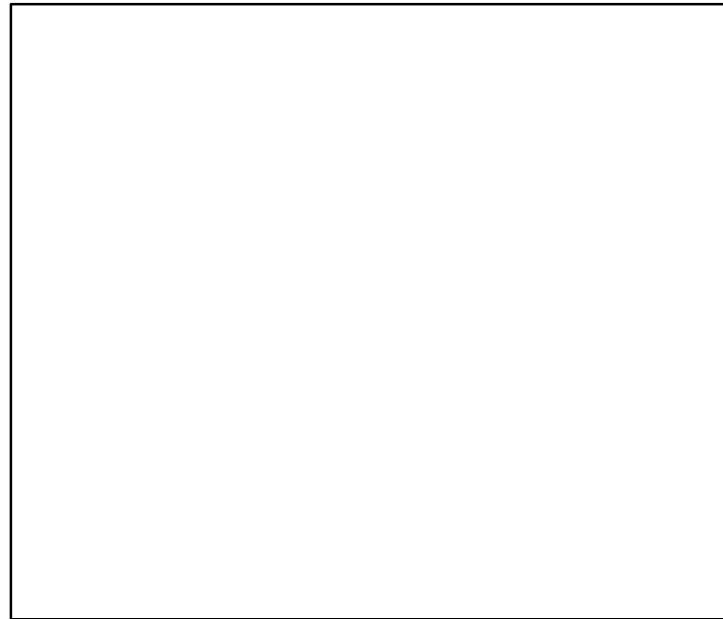
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	60		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Orange roughy Northeast Atlantic [OROUGHYNEATL]

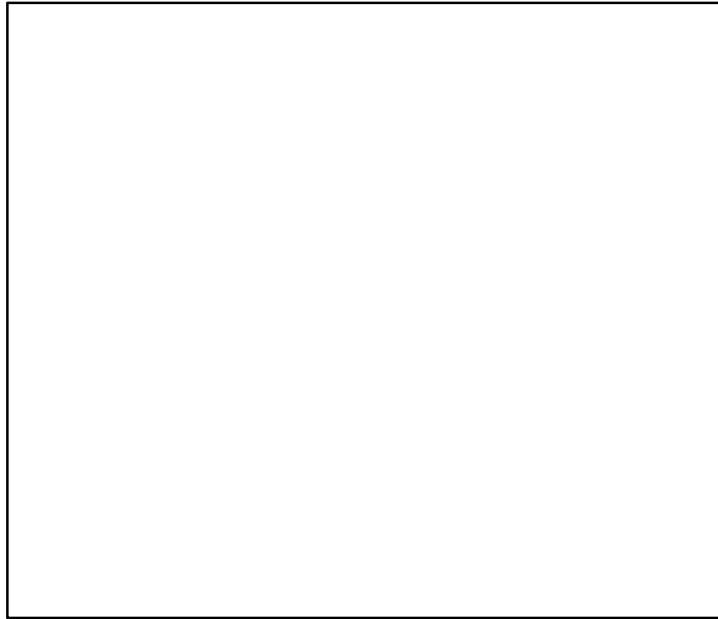
Kobe MSY*



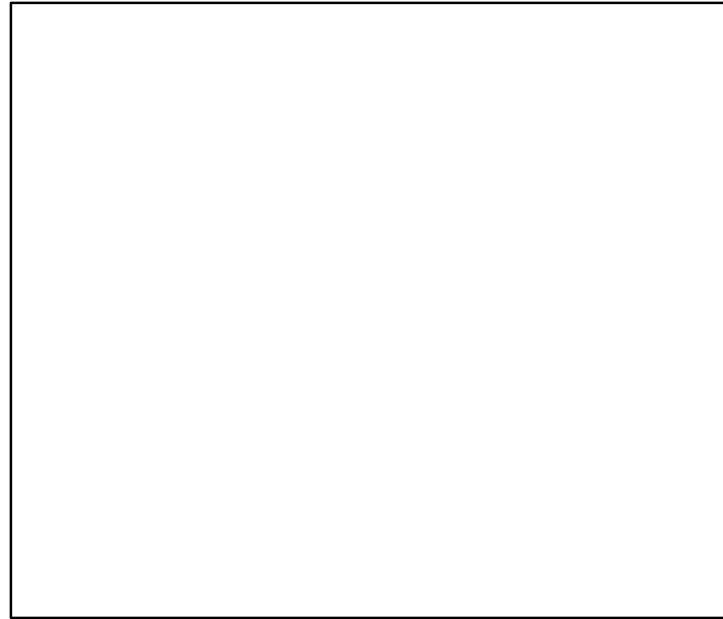
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Orange roughy Northeast Atlantic [OROUGHYNEATL]

TB*



SSB*



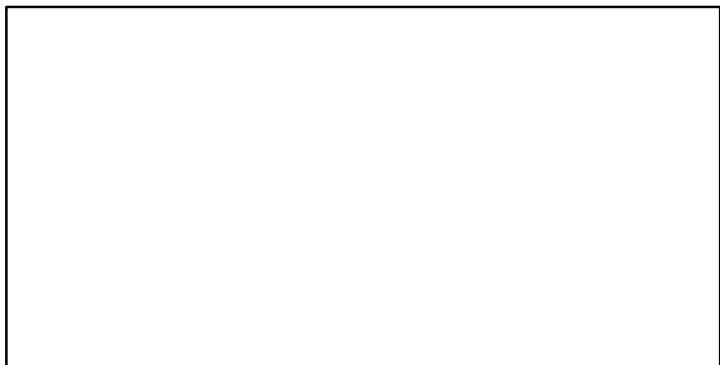
TN *



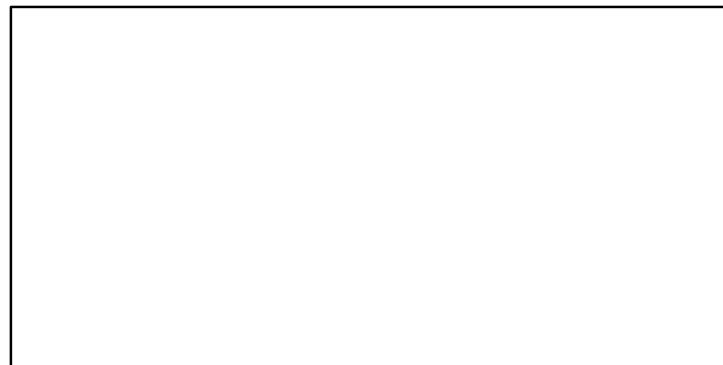
F*



ER*



Recruits*

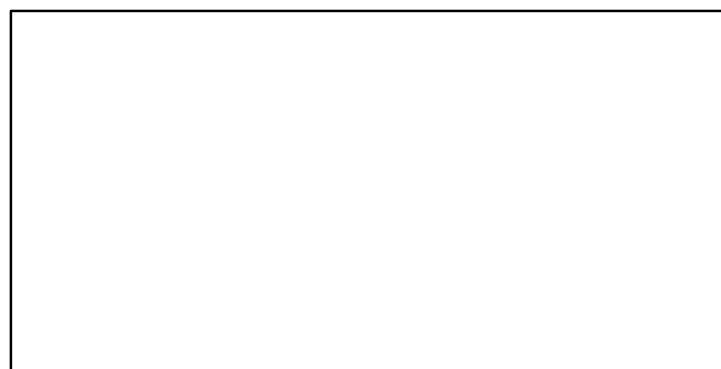
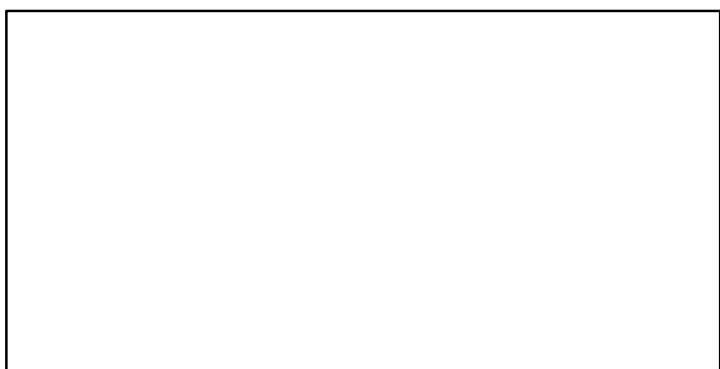
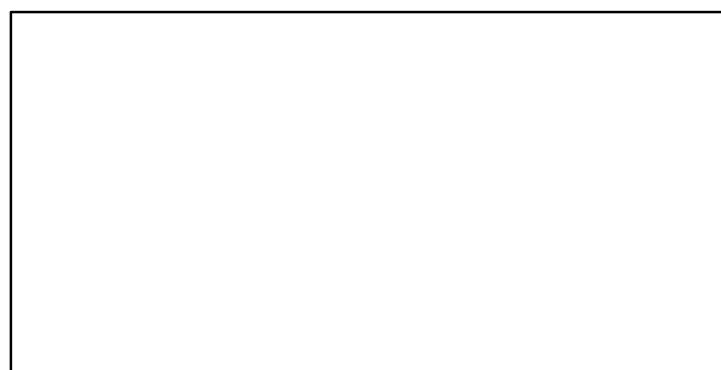
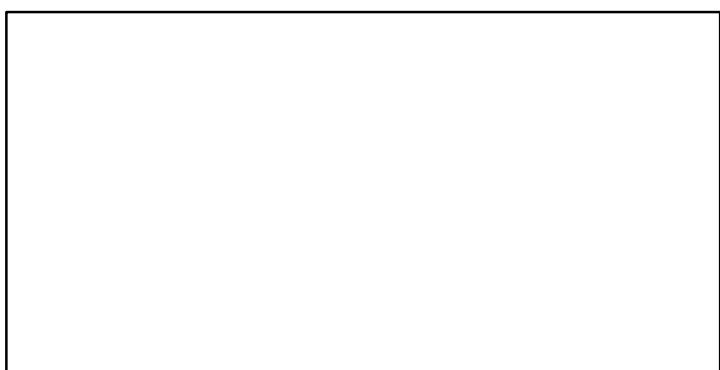
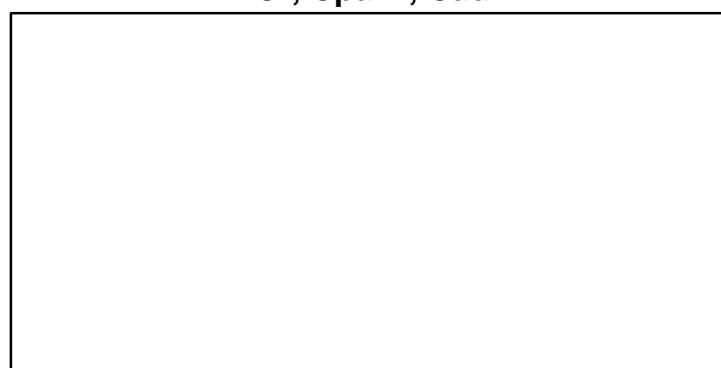
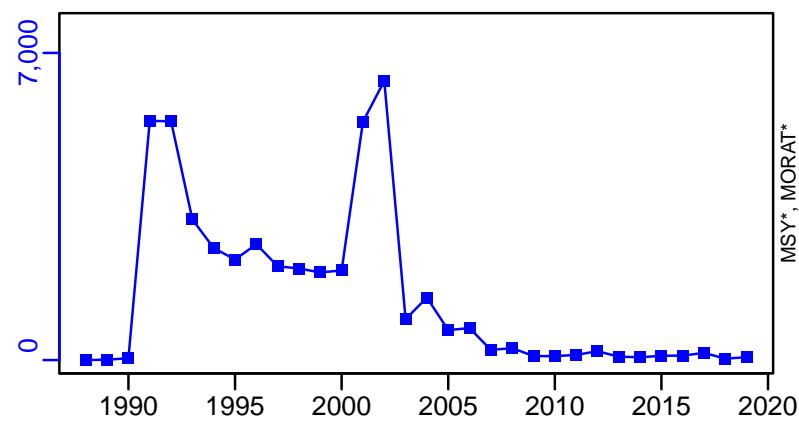


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Orange roughy Northeast Atlantic [OROUGHYNEATL]

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

TAC*, Cpair*, Cadv*



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

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

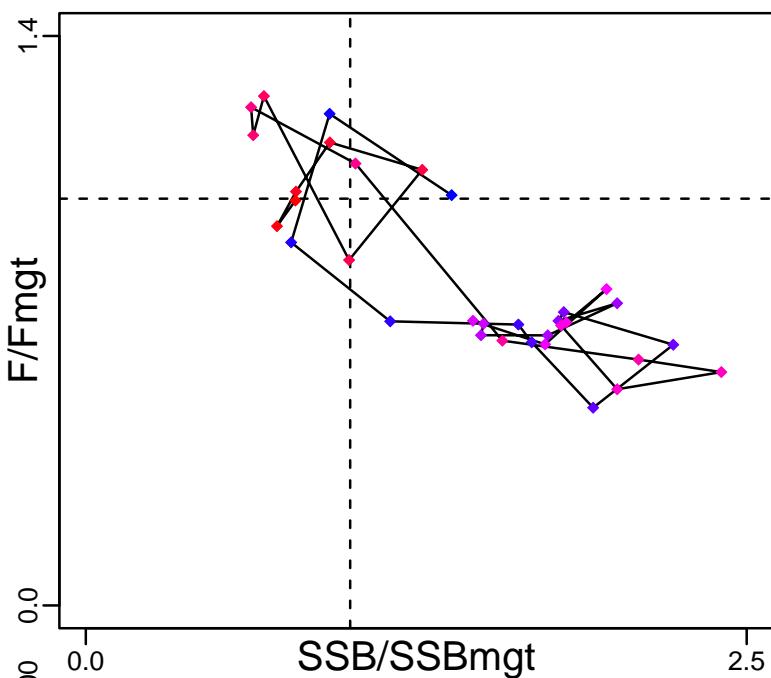
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIIIaW-IVaE-1988-2021-ICESIMP2021-2
Area	ICES 3a(west)-4a(east)
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.6
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	9900
Fmgt	Fmgt-1/yr	2021	0.59
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	6300
Flim	Flim-1/yr	2021	1
ERlim	-	-	-

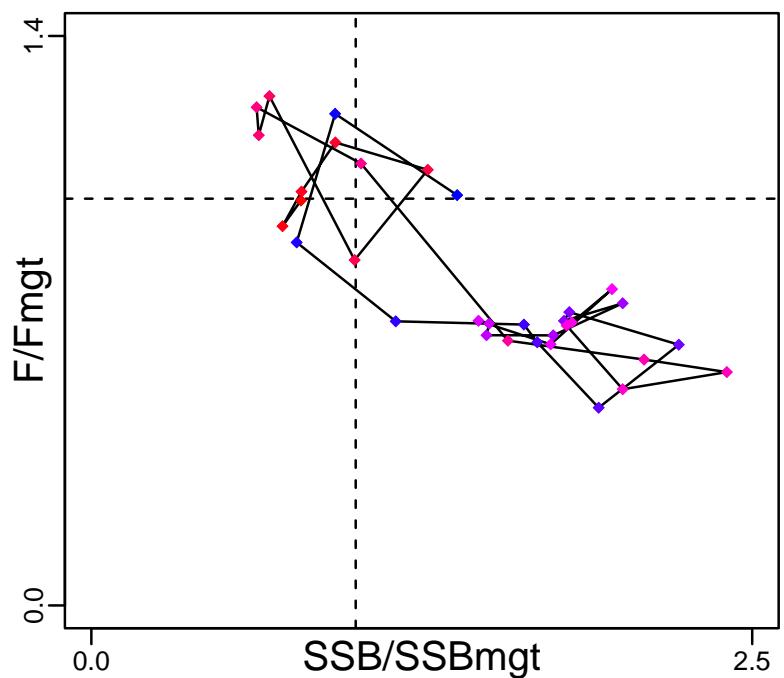
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	29,400	Both	-	
SSB	SSB-MT	2021	7580	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	7.8×10^9	-	0	
F	F-1/yr	2021	0.587	-	-	
ER	ER-calc-ratio	2015	0.412	-	-	
TC	TC-MT	2021	9230			
TL	TL-MT	2021	8940			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.1			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.88			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.766			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.995			
ER/ERmgt	-	-	-			

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

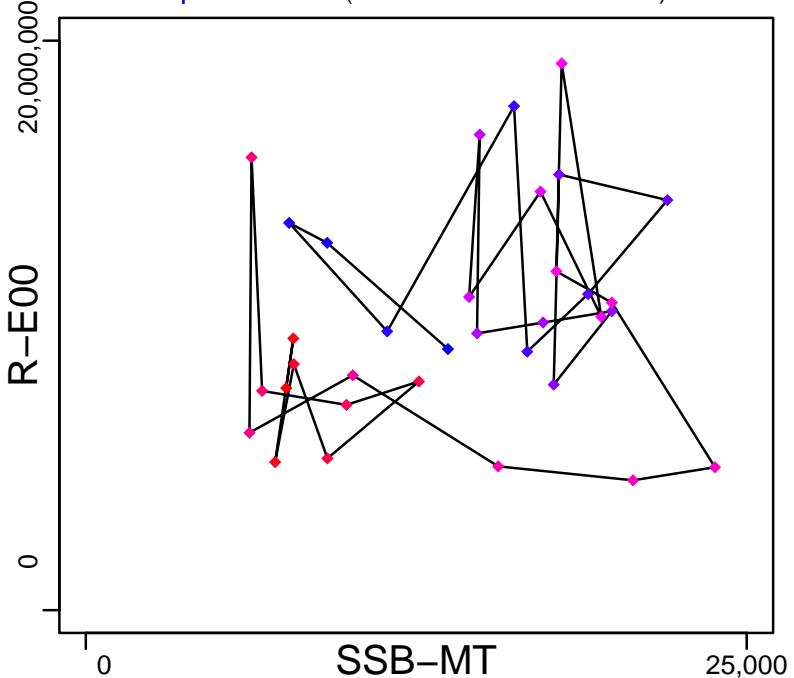
Kobe MSYpref (1988–2021–ICESIMP2021–2)



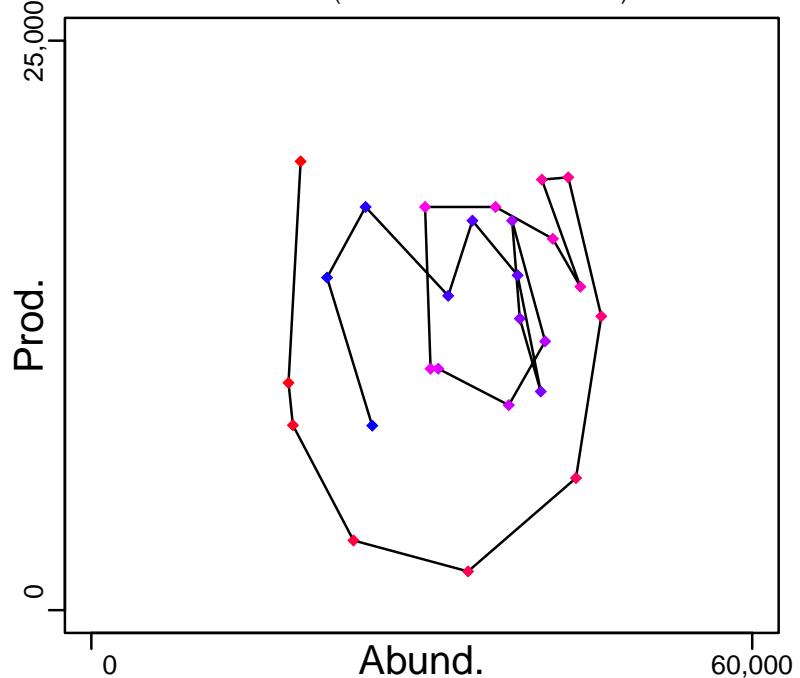
Kobe MGTpref (1988–2021–ICESIMP2021–2)



Spawner Recruit (1988–2021–ICESIMP2021–2)



Production (1988–2015–ICESIMP2016)

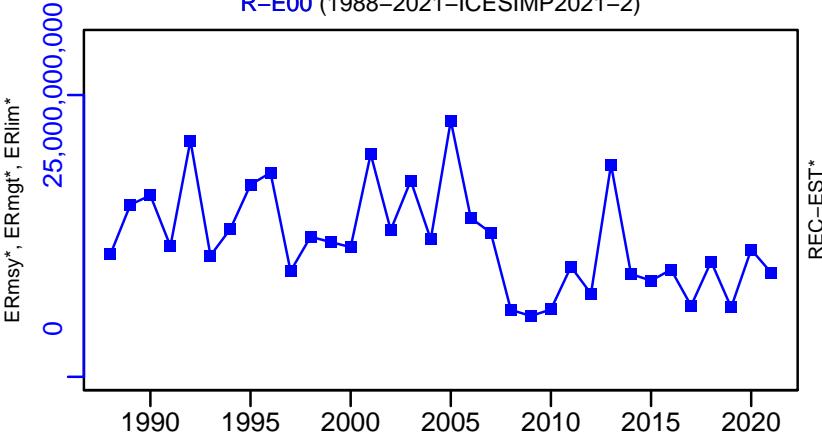
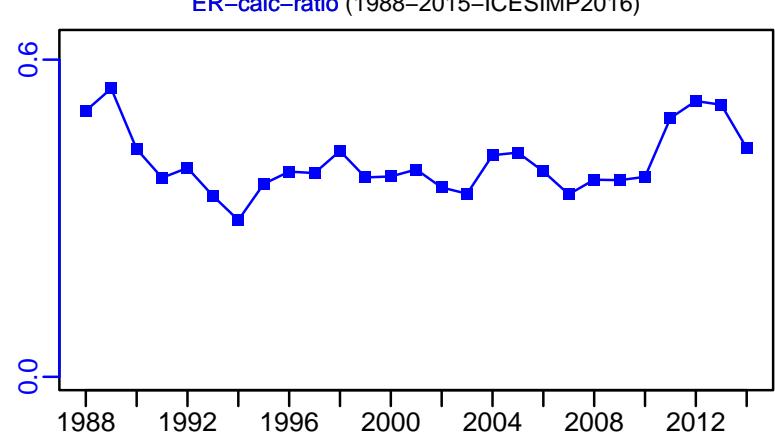
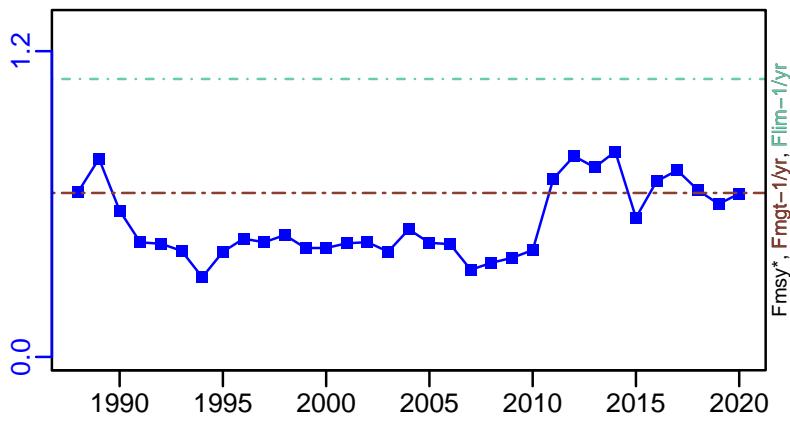
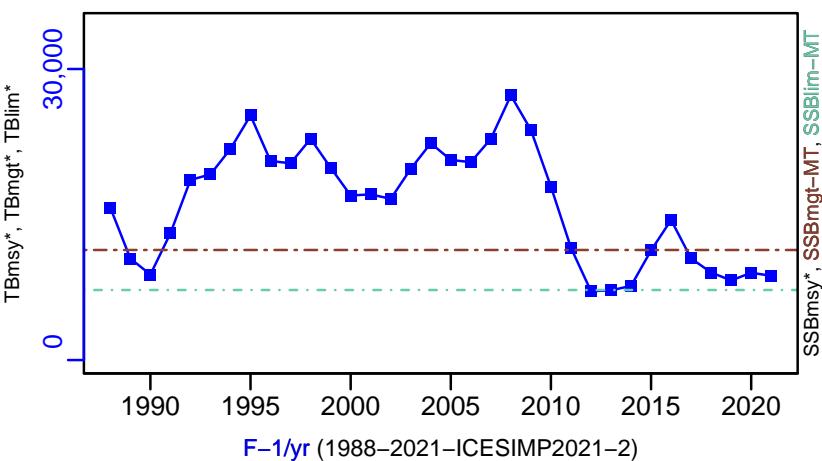
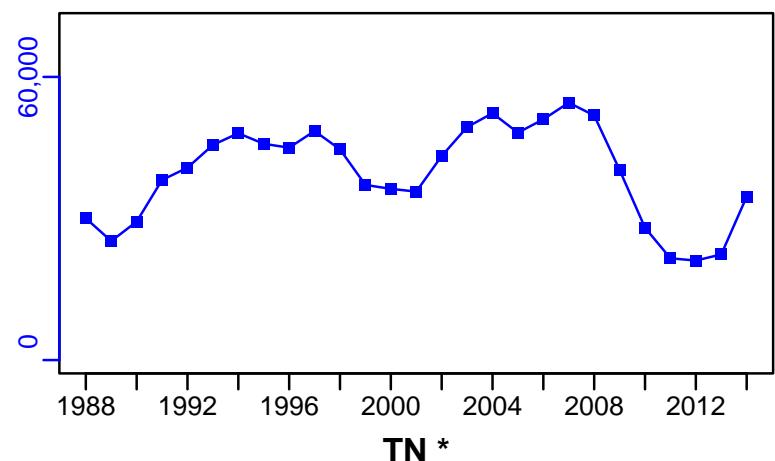


◆ Start Year ◆ End Year * No Data

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

TB-MT (1988–2015–ICESIMP2016)

SSB-MT (1988–2021–ICESIMP2021–2)

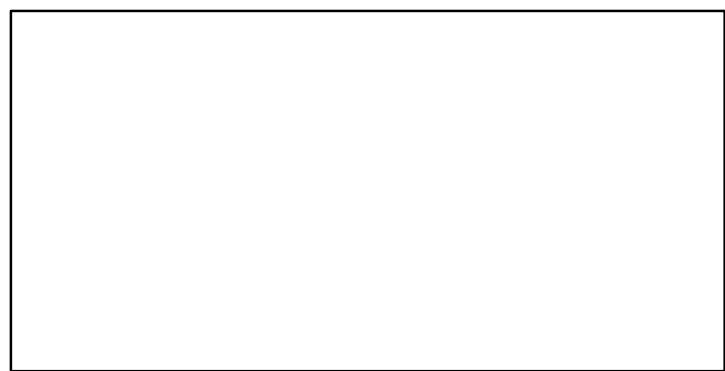
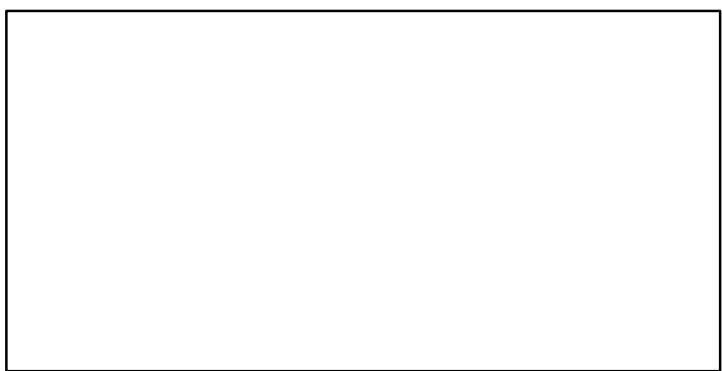
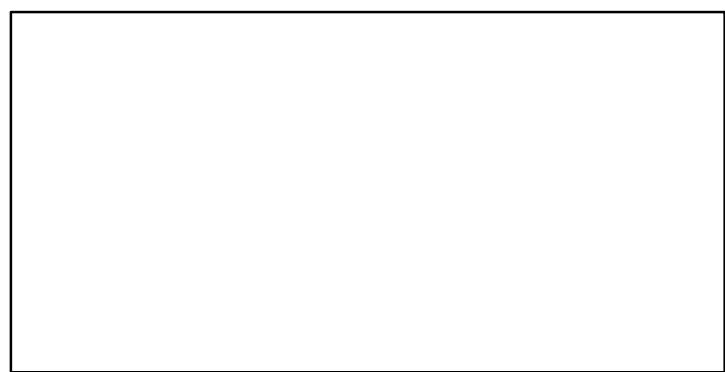
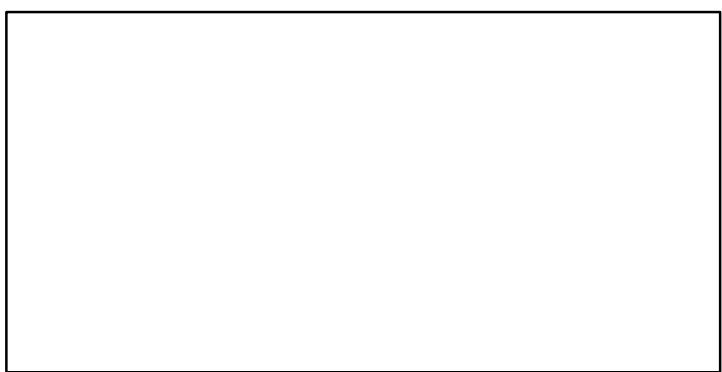
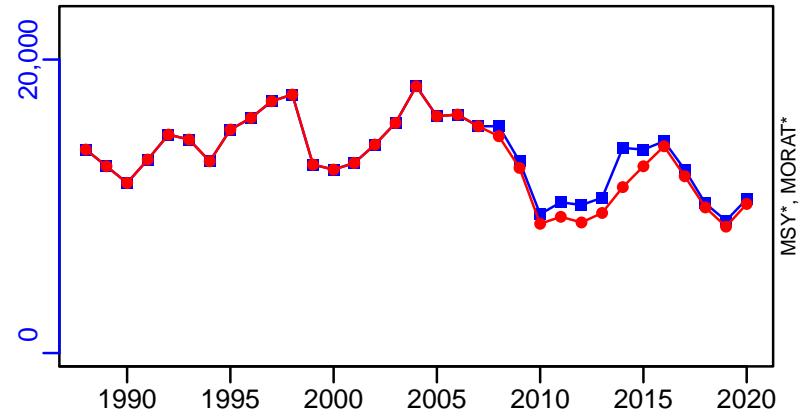


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	··· Lim BRP	* No Data

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

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

TAC*, Cpair*, Cadv*



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

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

Northern shrimp Northern North Sea [PANDALIVa]

TB*



SSB*



TN *



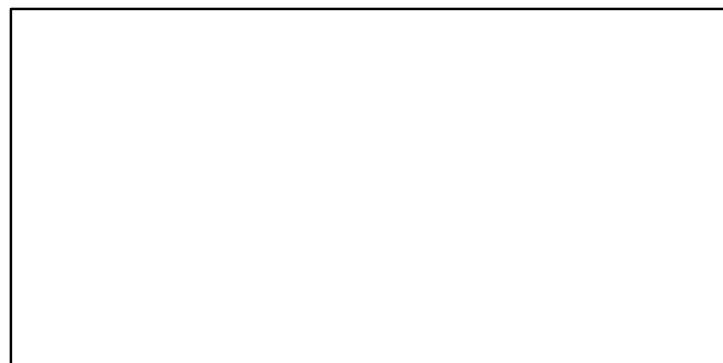
F*



ER*



Recruits*

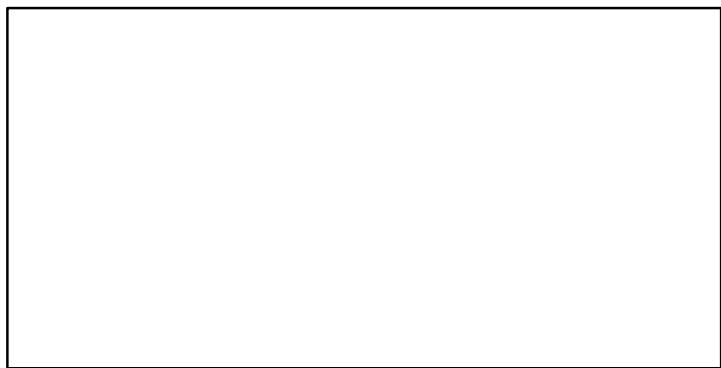
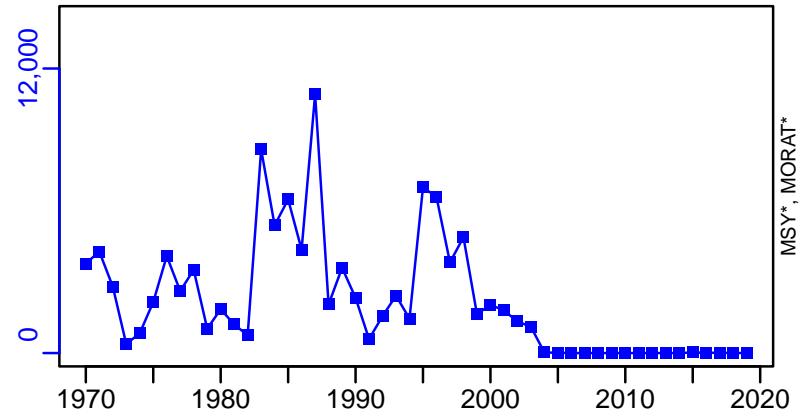


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

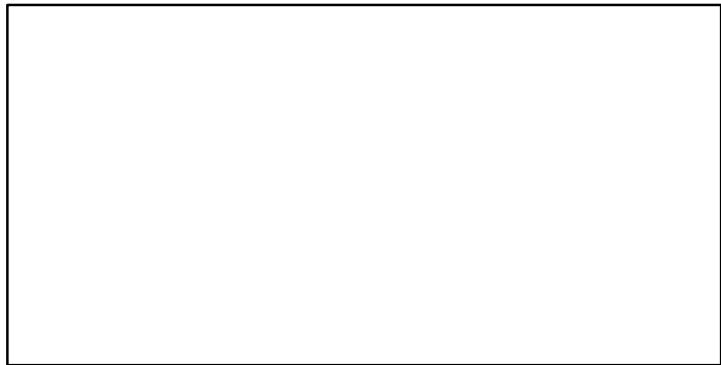
Northern shrimp Northern North Sea [PANDALIVa]

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

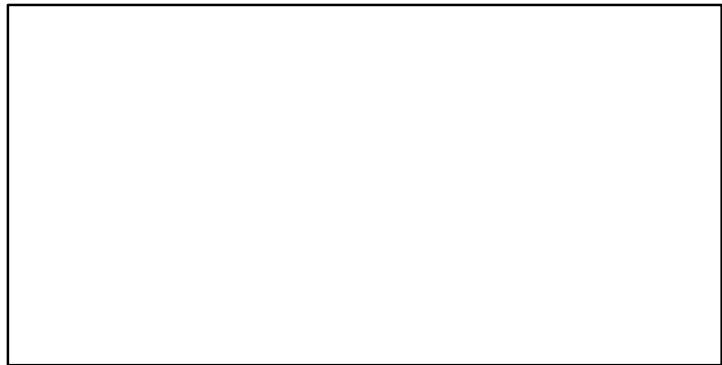
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



European plaice Subdivisions 21-23 [PLAIC2123]

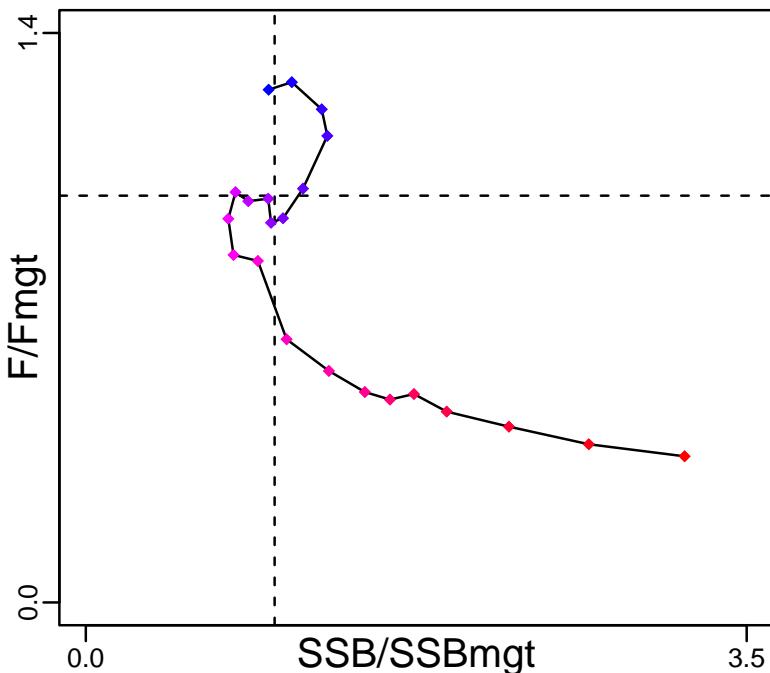
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2123-1999-2021-ICESIMP2021-2
Area	Subdivisions 21-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019,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

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

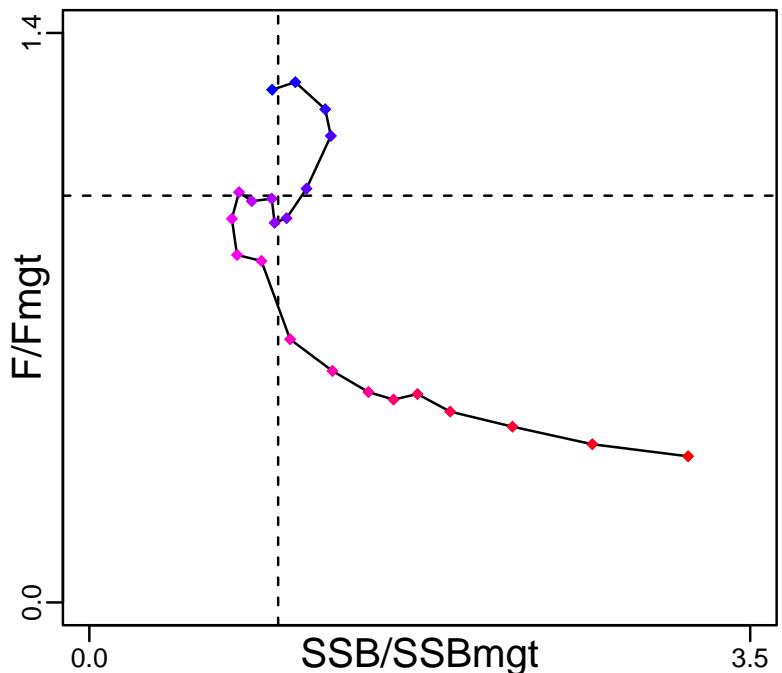
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	14,245	-	-
SSB	SSB-MT	2021	18,900	-	-
TN	-	-	-	-	-
R	R-E00	2021	29,400	-	1
F	F-1/yr	2021	0.291	-	-
ER	ER-calc-ratio	2019	0.243	-	-
TC	TC-MT	2021	4470		
TL	TL-MT	2021	3410		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

European plaice Subdivisions 21–23 [PLAIC2123]

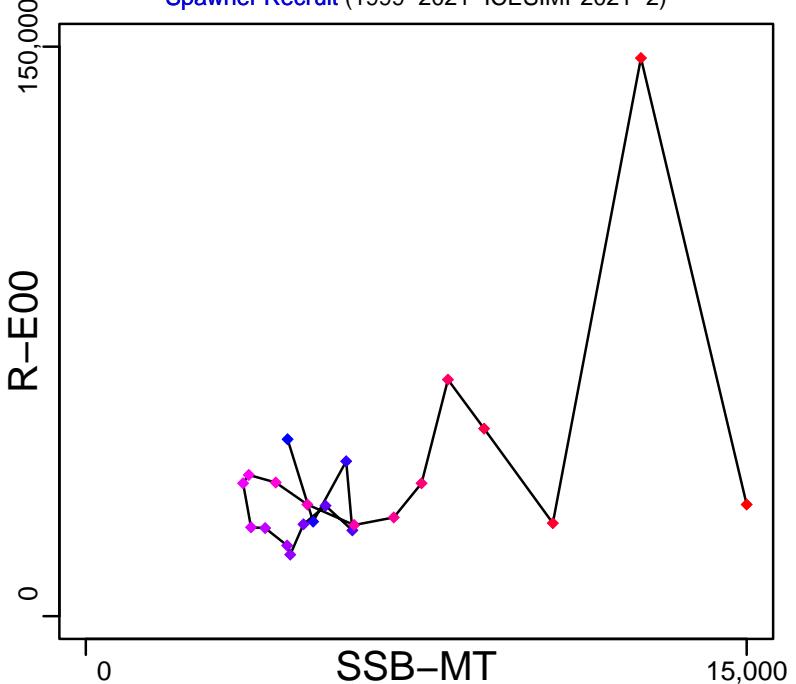
Kobe MSYpref (1999–2021–ICESIMP2021–2)



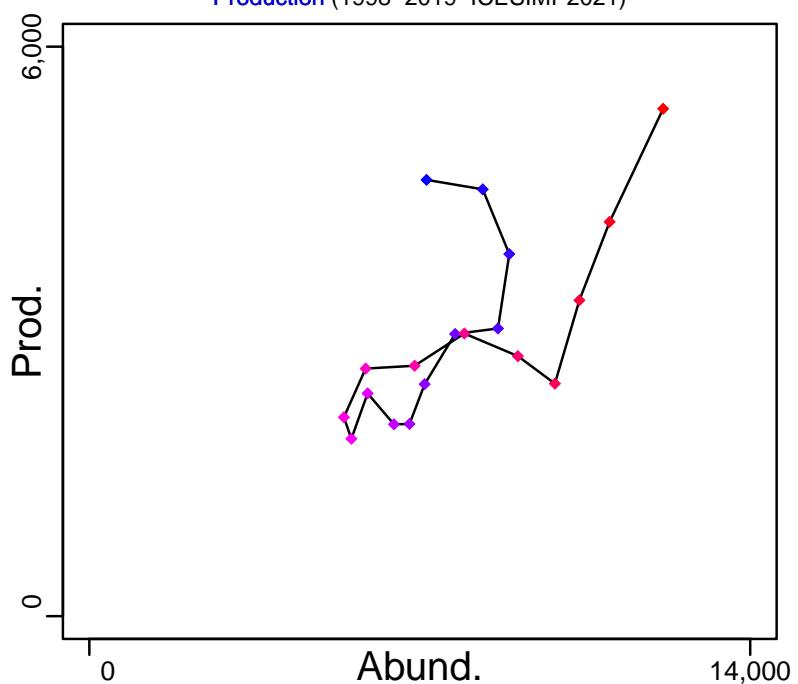
Kobe MGTpref (1999–2021–ICESIMP2021–2)



Spawner Recruit (1999–2021–ICESIMP2021–2)



Production (1998–2019–ICESIMP2021)

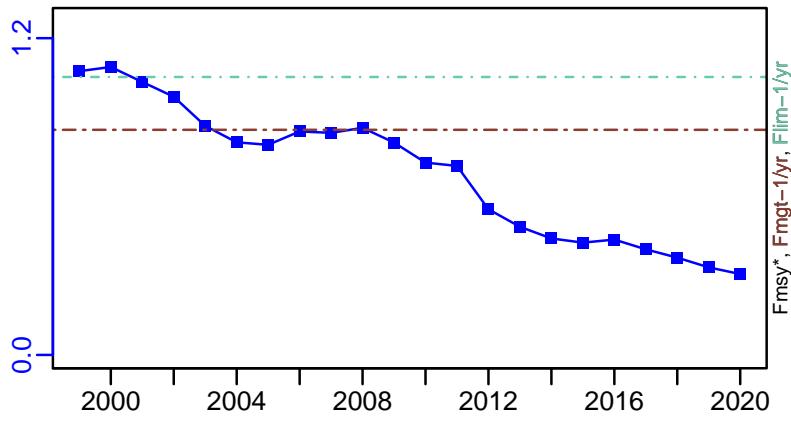
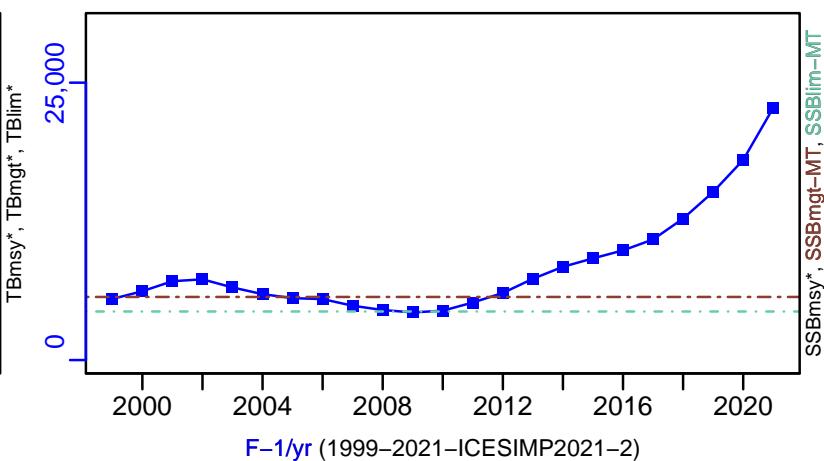
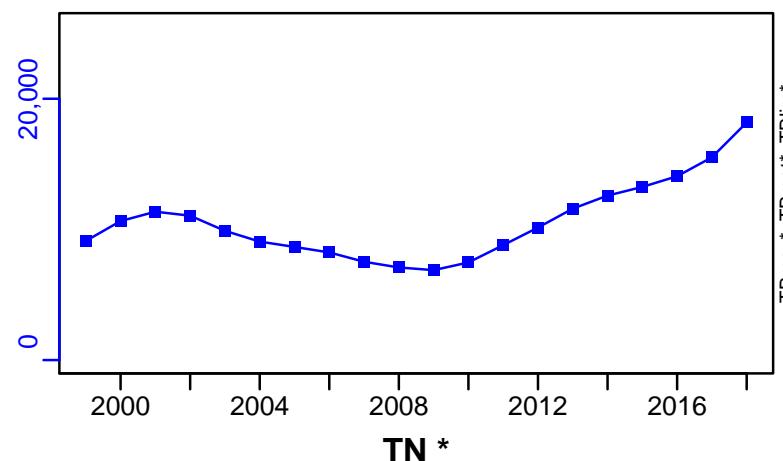


◆ Start Year ◆ End Year * No Data

European plaice Subdivisions 21–23 [PLAIC2123]

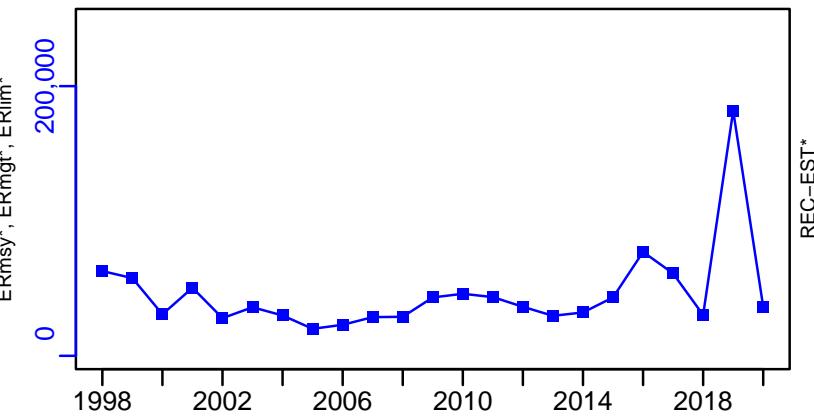
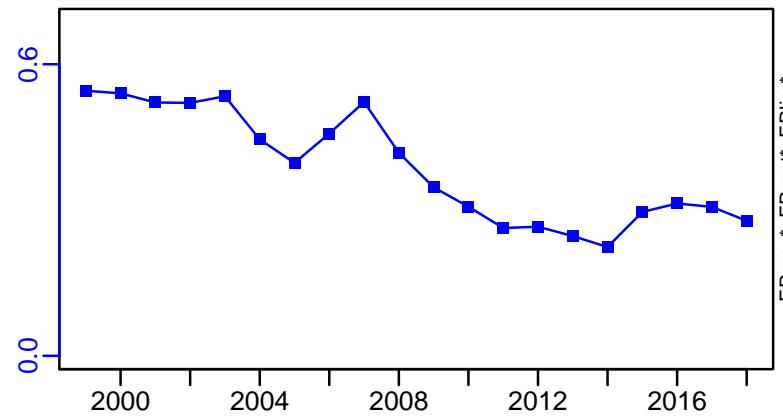
TB-MT (1998–2019–ICESIMP2021)

SSB-MT (1999–2021–ICESIMP2021–2)



ER-calc-ratio (1998–2019–ICESIMP2021)

R-E00 (1999–2021–ICESIMP2021–2)

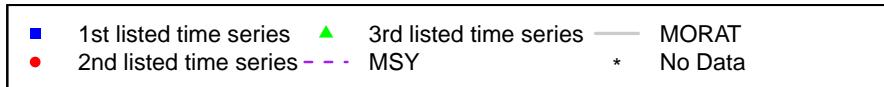
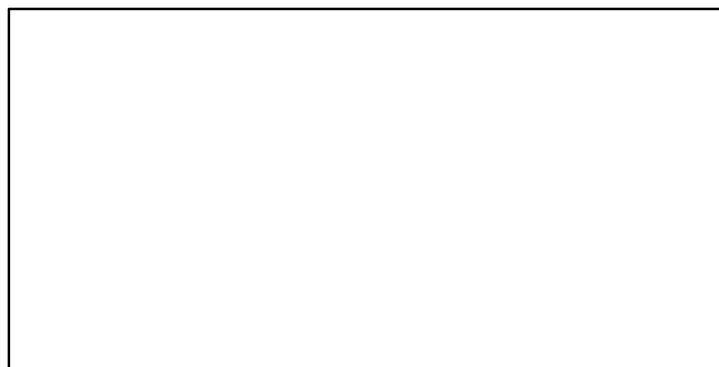
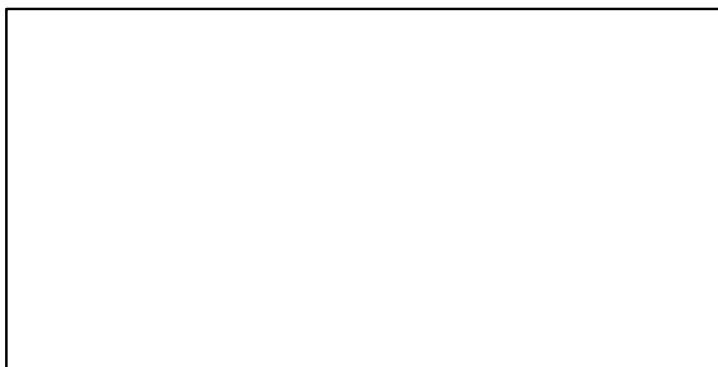
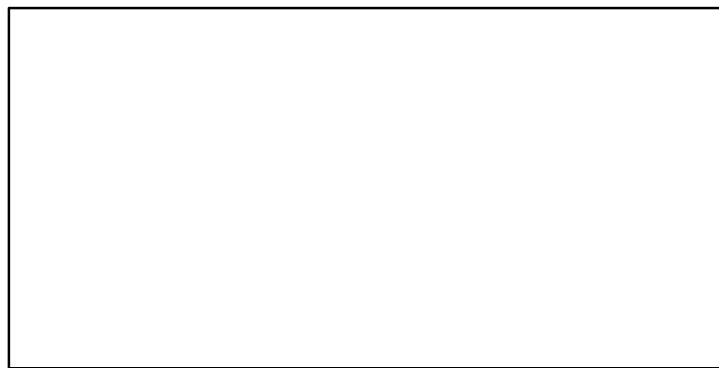
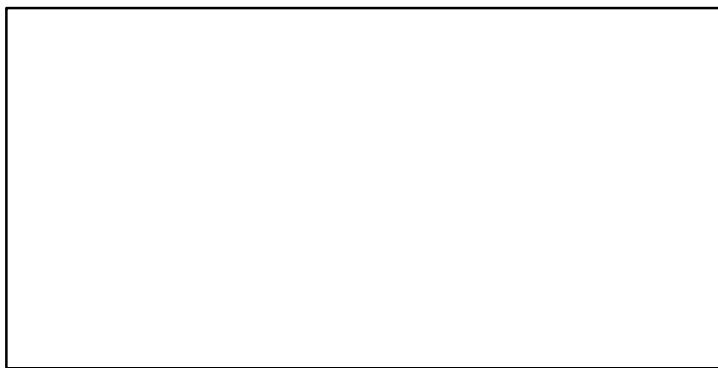
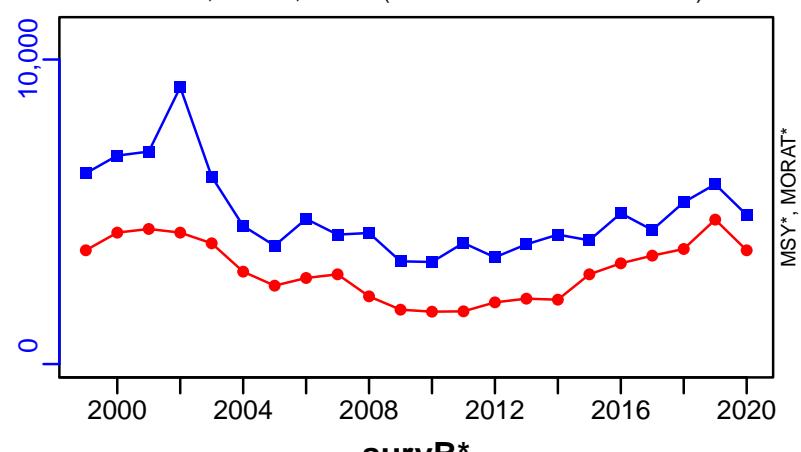


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

European plaice Subdivisions 21–23 [PLAIC2123]

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

TAC*, Cpair*, Cadv*

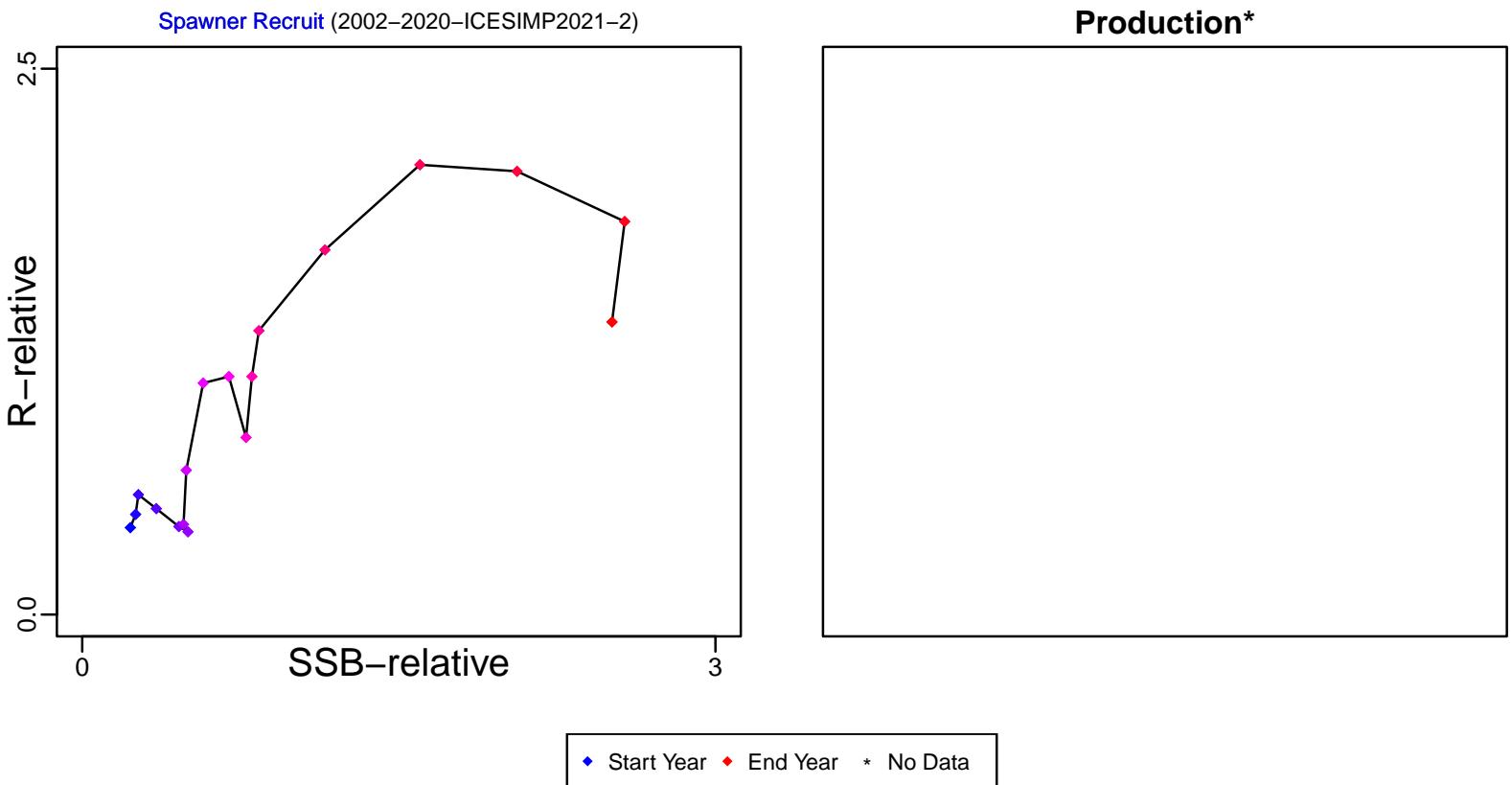


European plaice Subdivisions 24-32 [PLAIC2432]

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

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

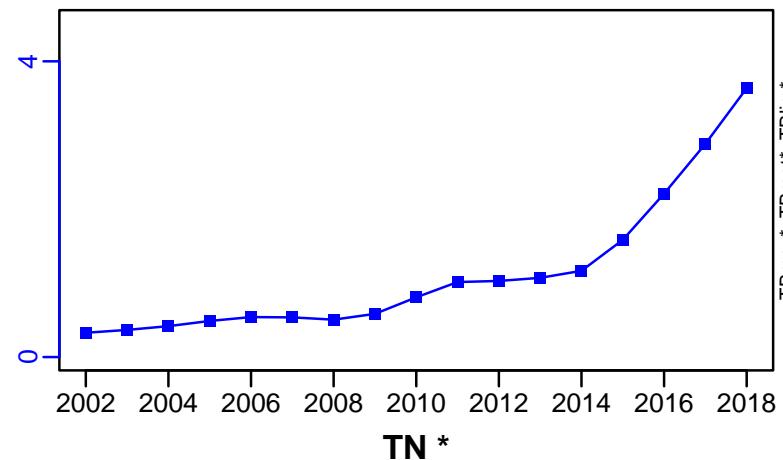
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-relative	2019	3.224	-	-	
SSB	SSB-relative	2020	2.39	-	-	
TN	-	-	-	-	-	
R	R-relative	2020	1.34	-	-	
F	F-relative	2019	0.541	-	2 to 5	
ER	-	-	-	-	-	
TC	TC-MT	2020	2360			
TL	TL-MT	2020	1740			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-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

Kobe MSY***Kobe MGT***

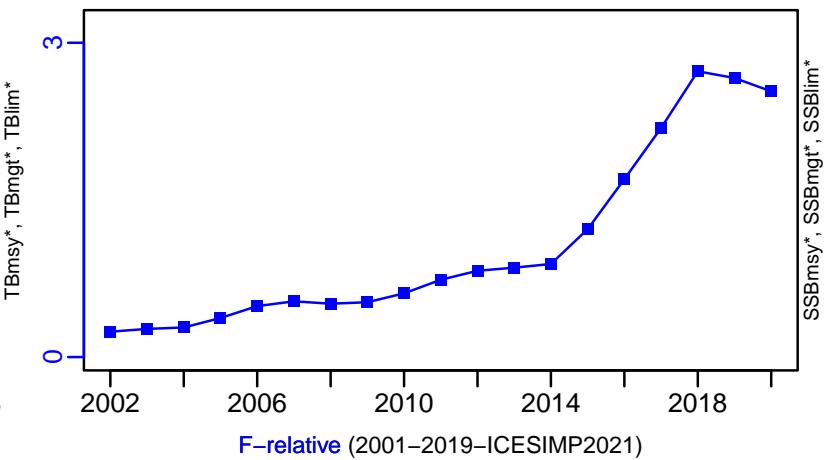
European plaice Subdivisions 24–32 [PLAIC2432]

TB-relative (2001–2019–ICESIMP2021)

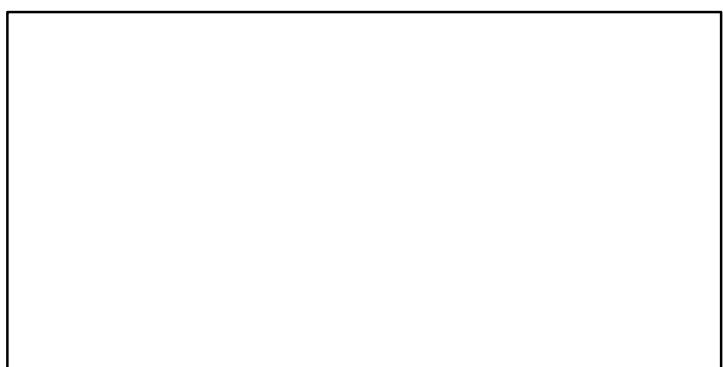
SSB-relative (2002–2020–ICESIMP2021–2)



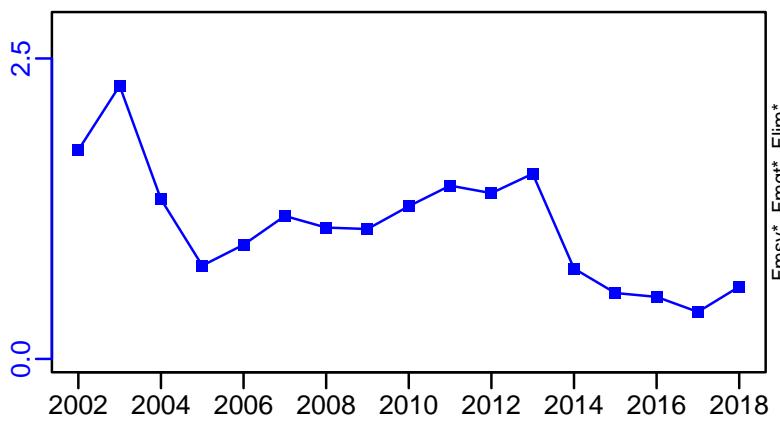
TN *



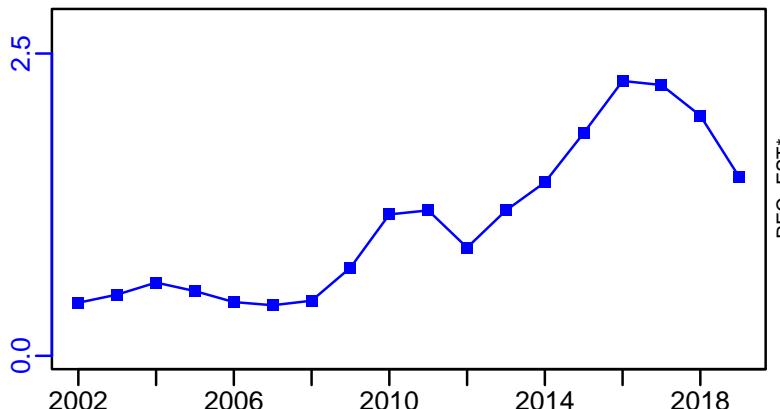
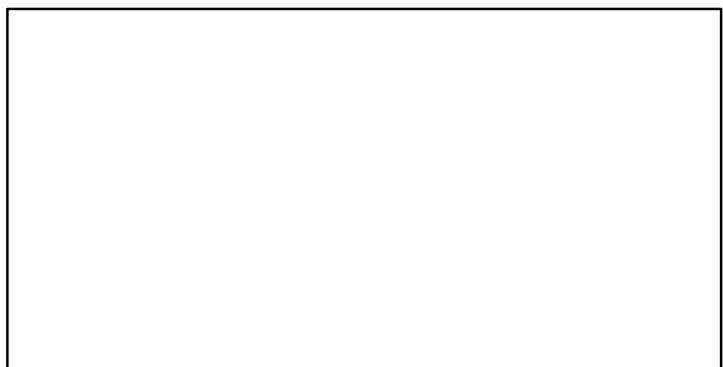
SSB_ms^{y*}, SSB_{mgt*}, SSB_{lim*}



ER*



F_ms^{y*}, F_{mgt*}, F_{lim*}



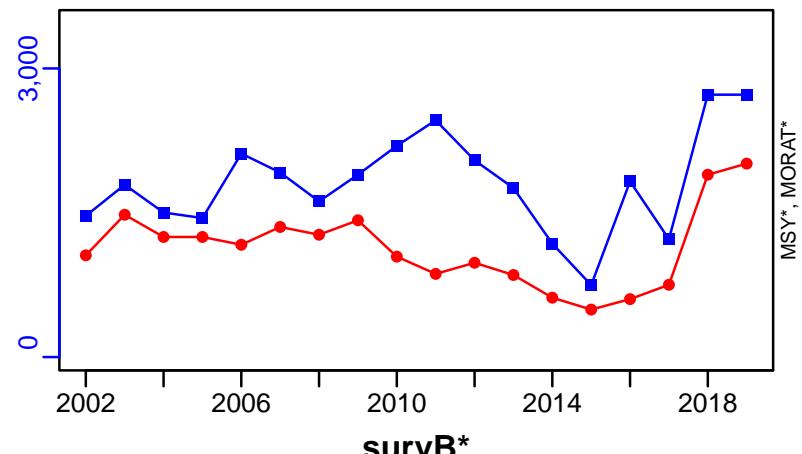
REC-EST*

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

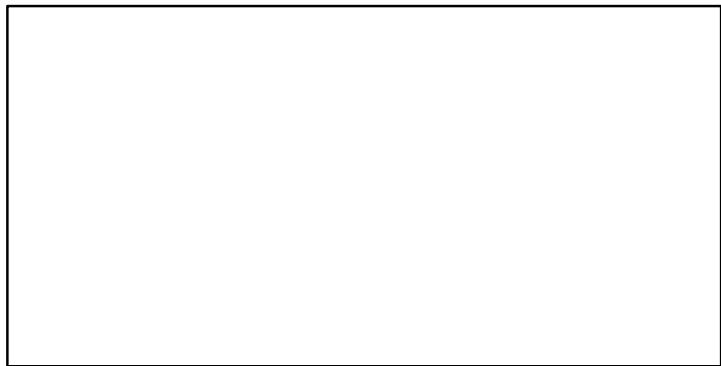
European plaice Subdivisions 24–32 [PLAIC2432]

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

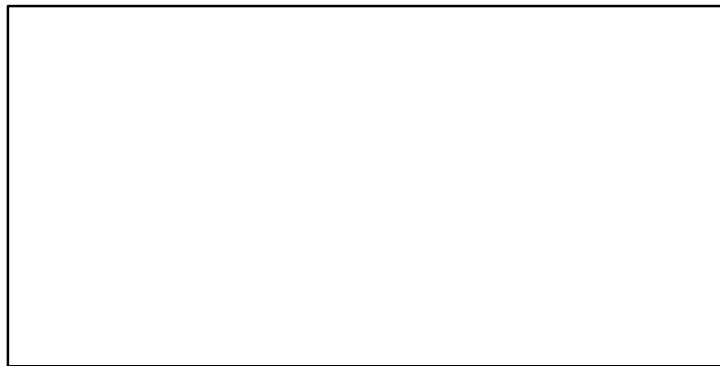
TAC*, Cpair*, Cadv*



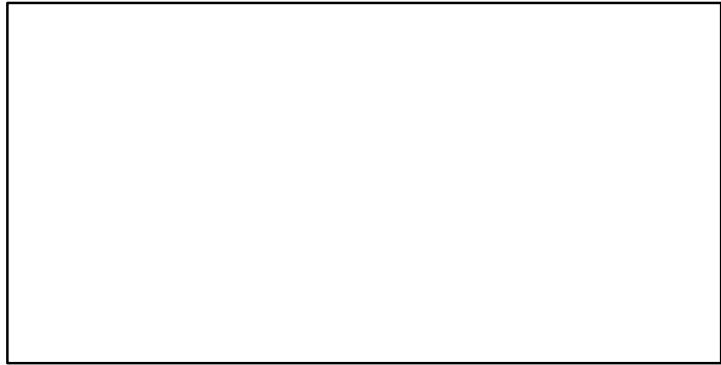
survB*



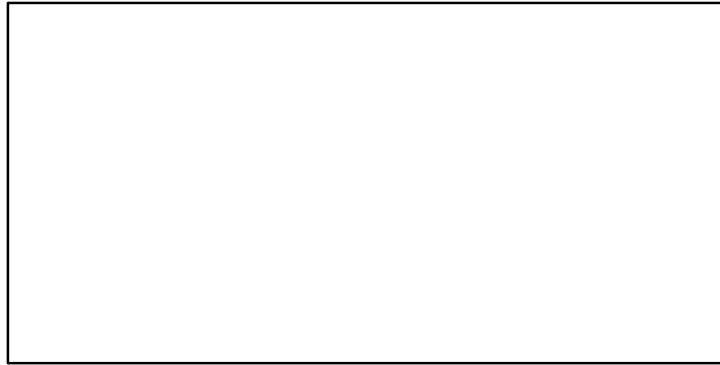
CPUE*



EFFORT*



CdivMSY*



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

European plaice Eastern English Channel [PLAIC7d]

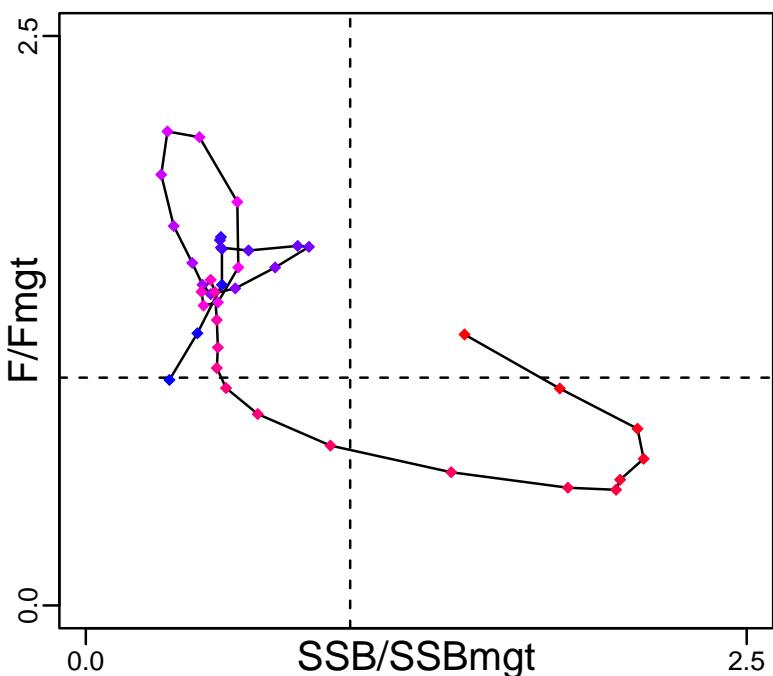
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAIC7d-1980-2021-ICESIMP2021-2
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts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

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

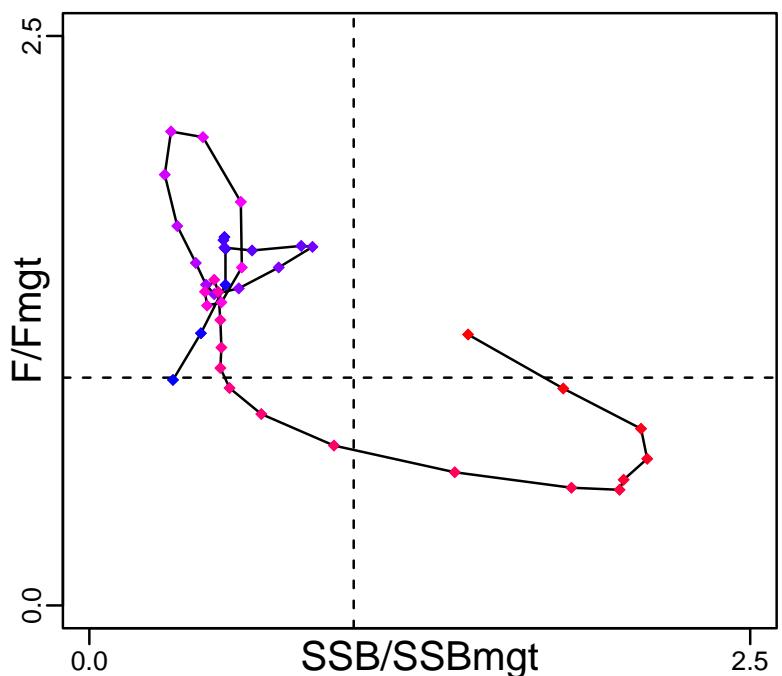
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2010	9230	Both	1+	
SSB	SSB-MT	2021	39,900	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	74,200	-	1	
F	F-1/yr	2021	0.217	-	-	
ER	ER-ratio	2010	0.344	-	-	
TC	TC-MT	2021	3630			
TL	TL-MT	2021	1730			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr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

European plaice Eastern English Channel [PLAIC7d]

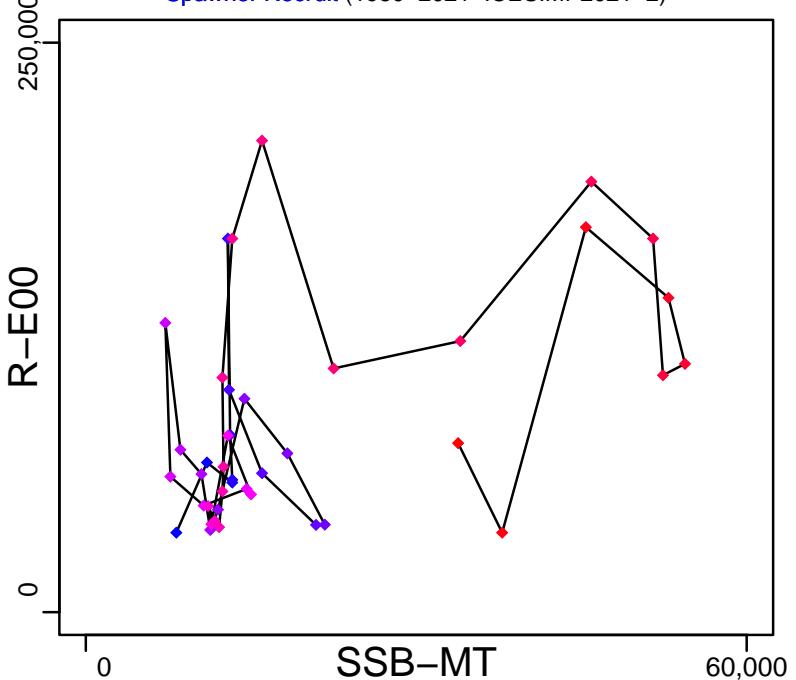
Kobe MSYpref (1980–2020–ICESIMP2021–2)



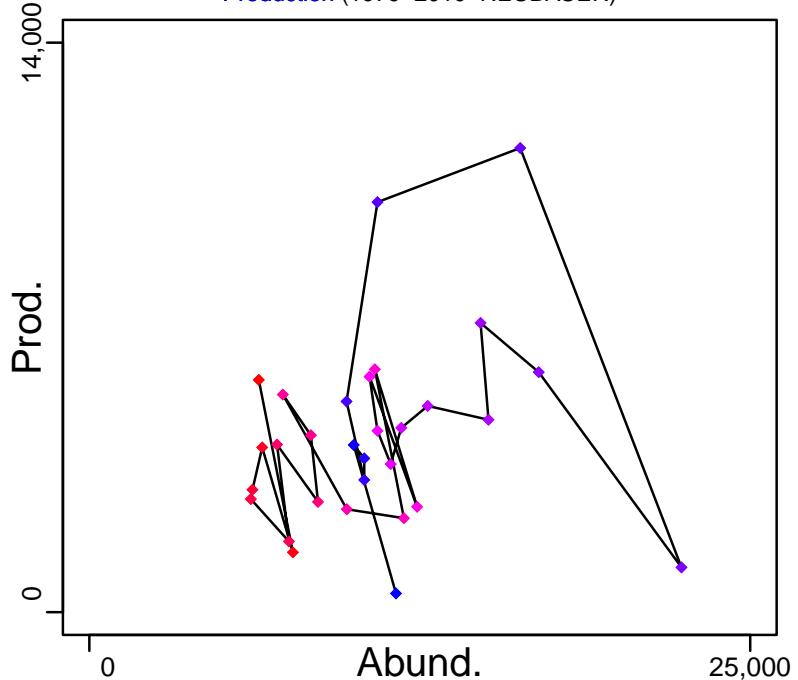
Kobe MGTpref (1980–2020–ICESIMP2021–2)



Spawner Recruit (1980–2021–ICESIMP2021–2)



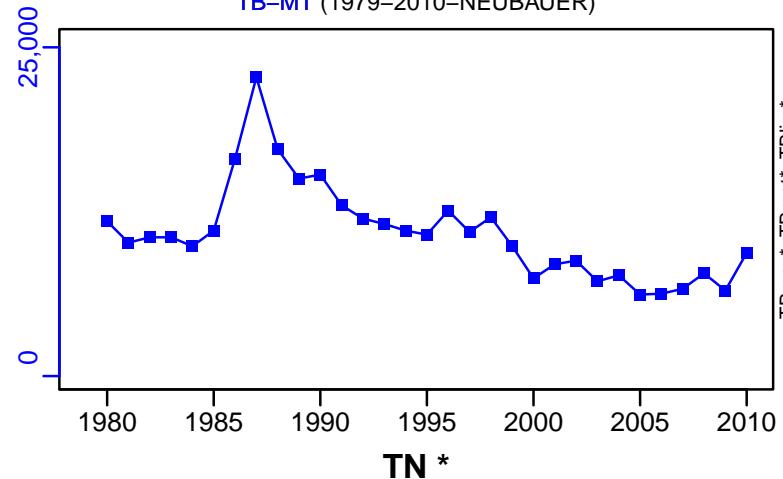
Production (1979–2010–NEUBAUER)



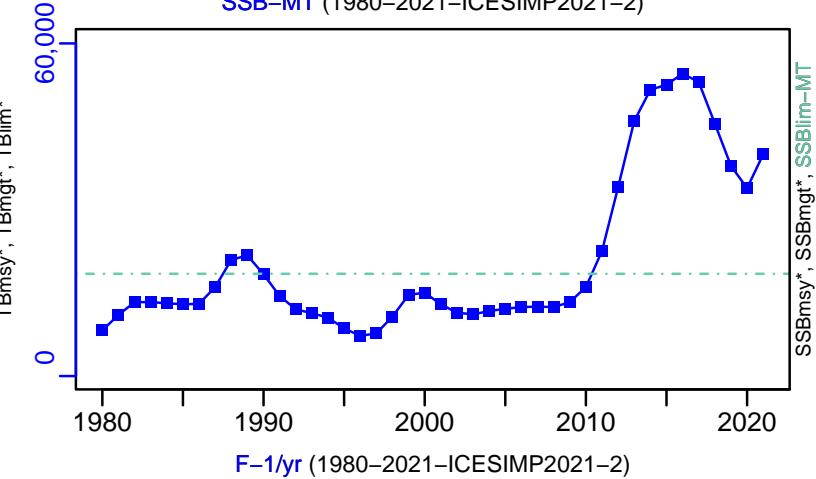
◆ Start Year ◆ End Year * No Data

European plaice Eastern English Channel [PLAIC7d]

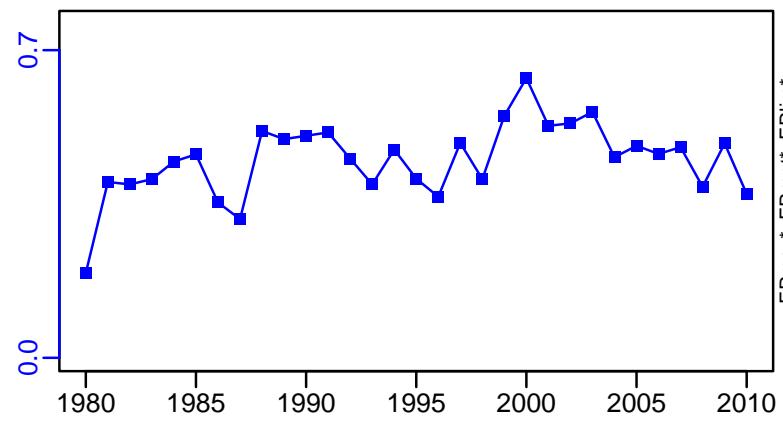
TB-MT (1979–2010–NEUBAUER)



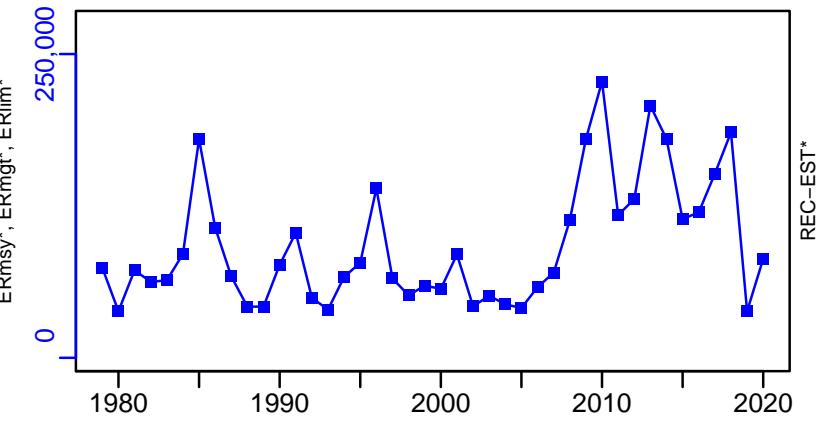
SSB-MT (1980–2021–ICESIMP2021–2)



ER-ratio (1979–2010–NEUBAUER)



R-E00 (1980–2021–ICESIMP2021–2)

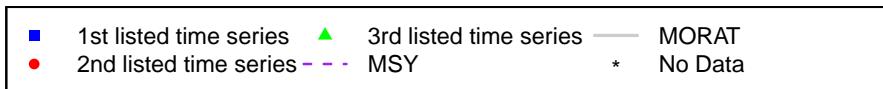
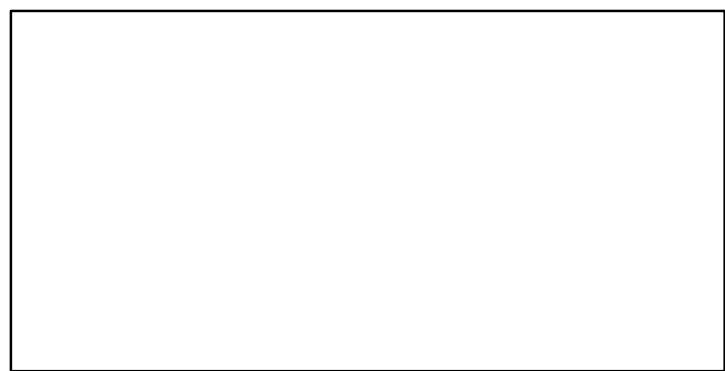
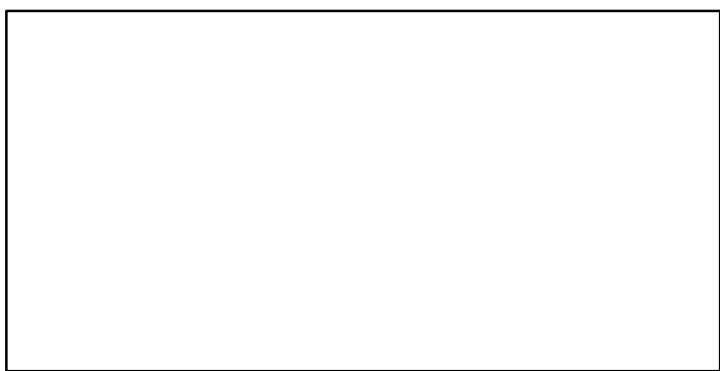
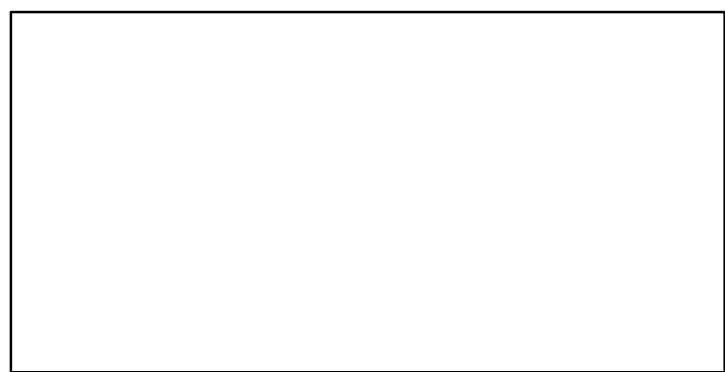
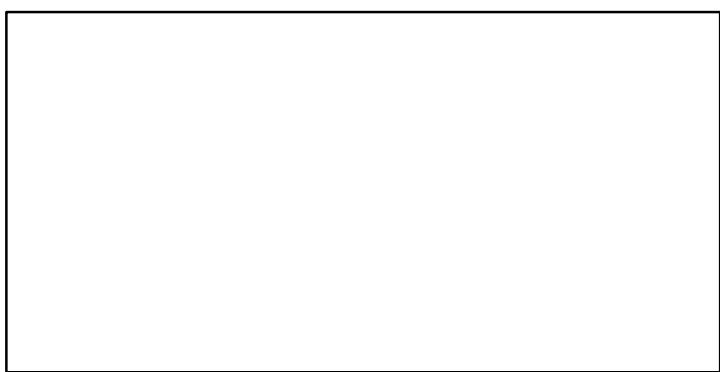
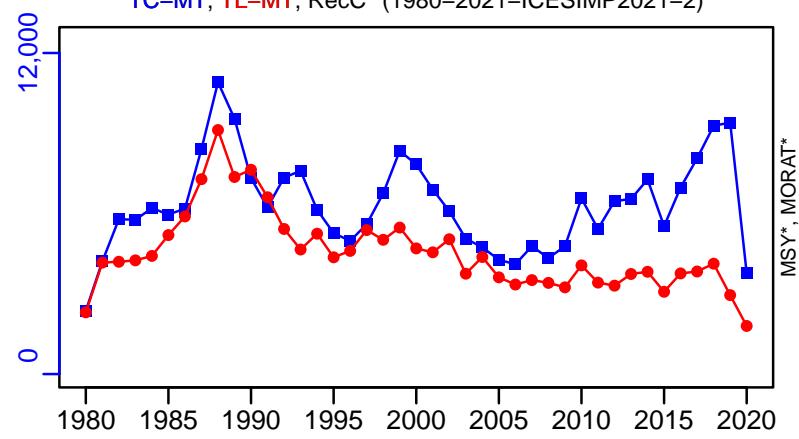


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

European plaice Eastern English Channel [PLAIC7d]

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

TAC*, Cpair*, Cadv*



European plaice Celtic Sea [PLAICCELT]

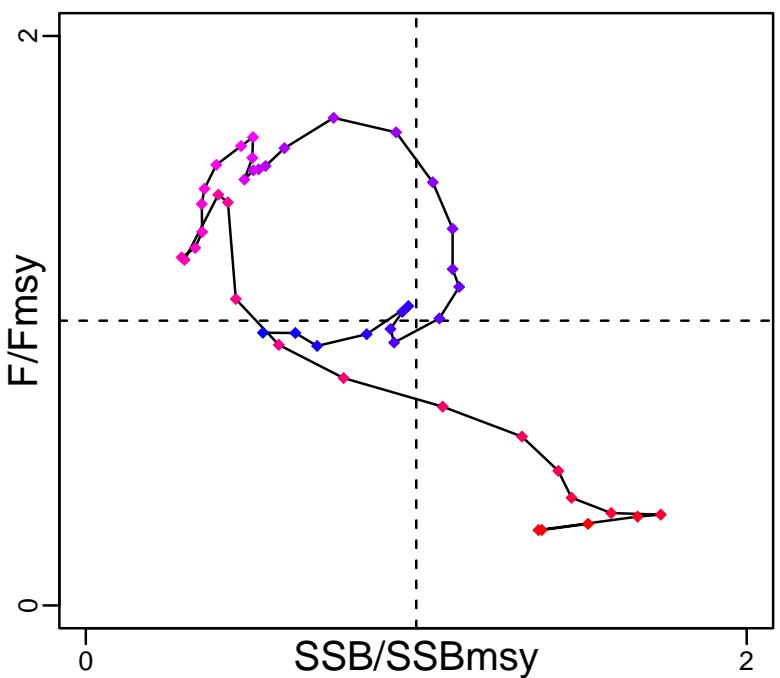
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICCELT-1977-2021-ICESIMP2021-2
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2017, 2019, 2020, 2021, 2016, 2014, 2016, 2010

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

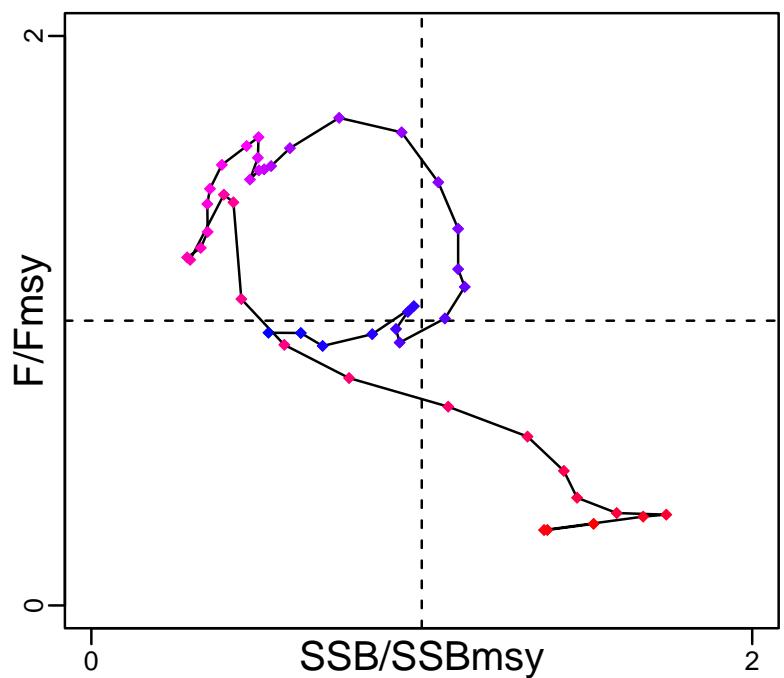
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	7515	-	-	
SSB	SSB-relative	2014	1.33	Both	-	
TN	-	-	-	-	-	
R	R-relative	2014	0.393	-	1	
F	F-relative	2014	1.29	-	3 to 6	
ER	ER-calc-ratio	2019	0.117	-	-	
TC	TC-MT	2021	893			
TL	TL-MT	2021	536			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless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

European plaice Celtic Sea [PLAICCELT]

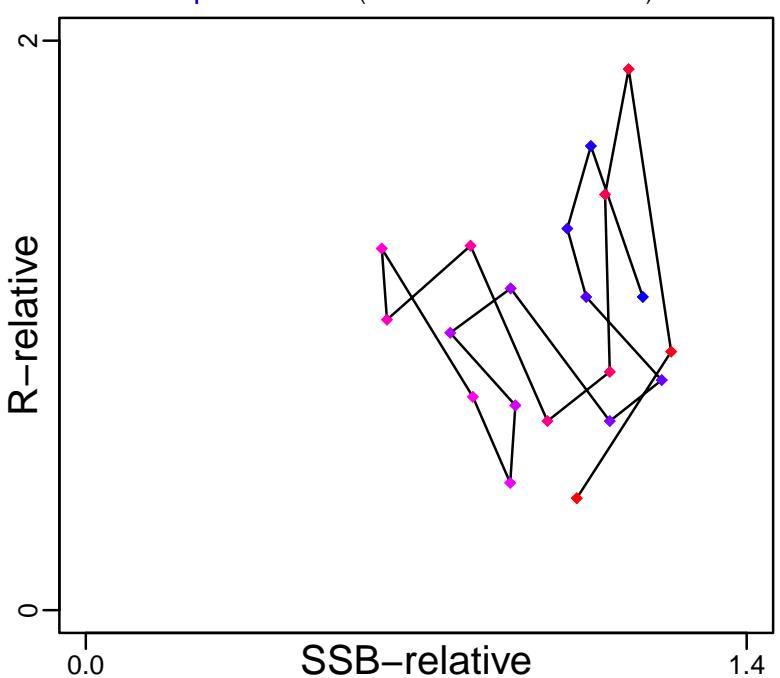
Kobe MSYpref (1977–2021–ICESIMP2021–2)



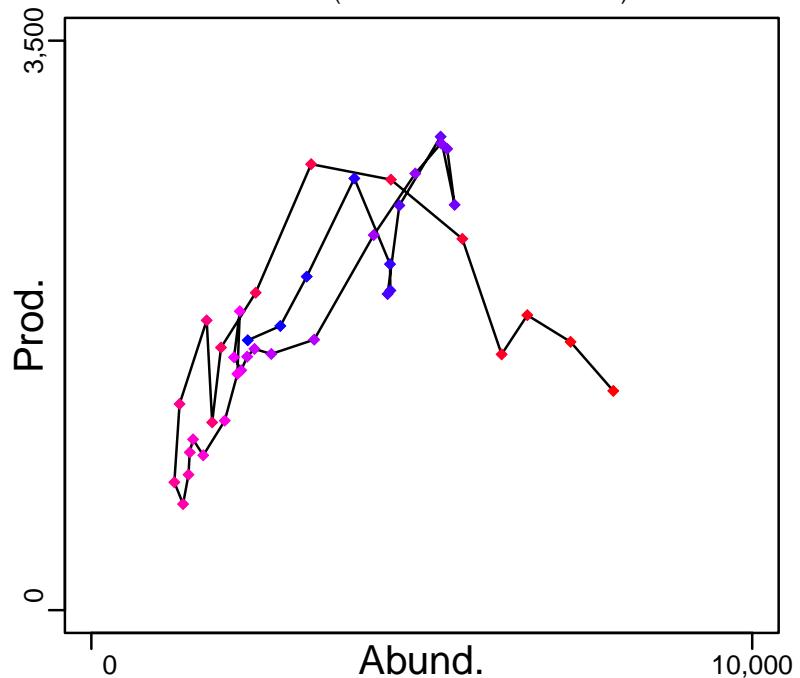
Kobe MGTpref (1977–2021–ICESIMP2021–2)



Spawner Recruit (1992–2014–ICESIMP2016)



Production (1977–2019–ICESIMP2021)

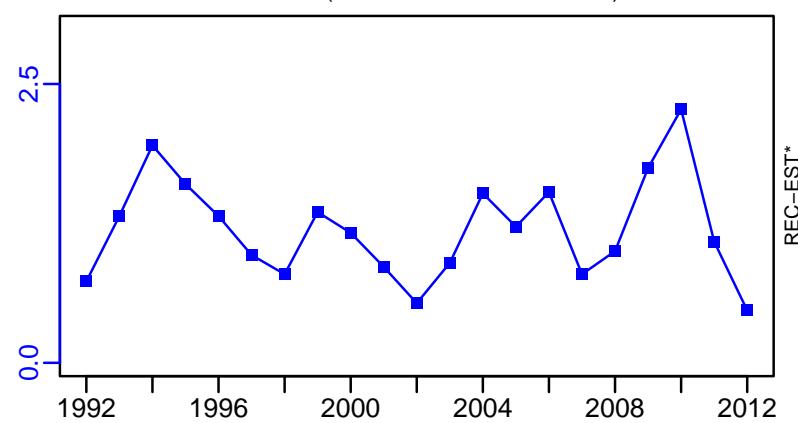
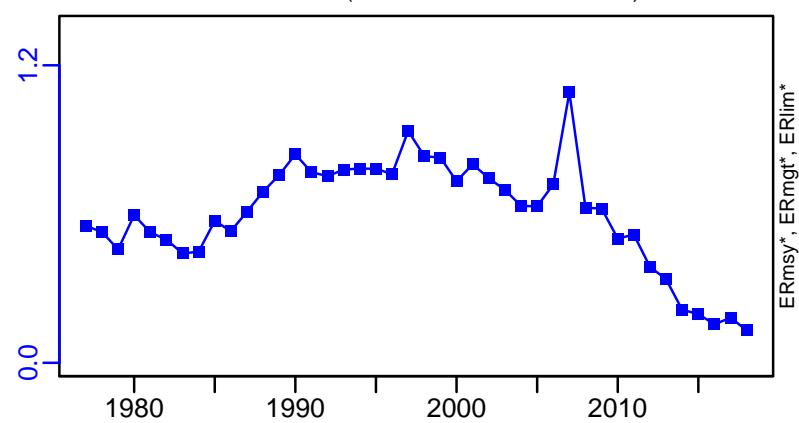
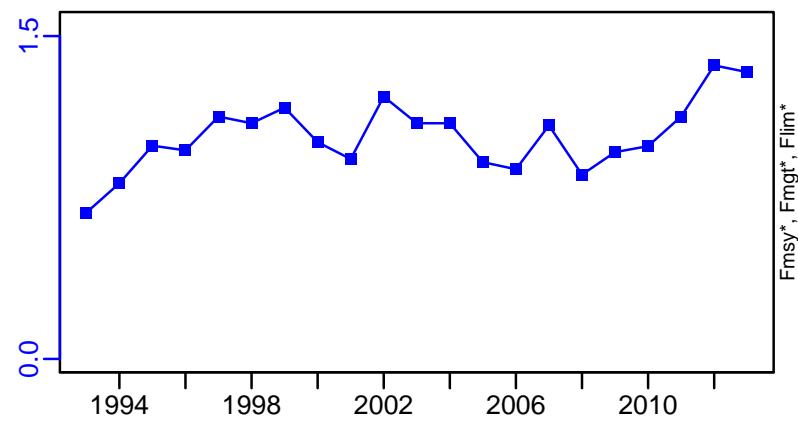
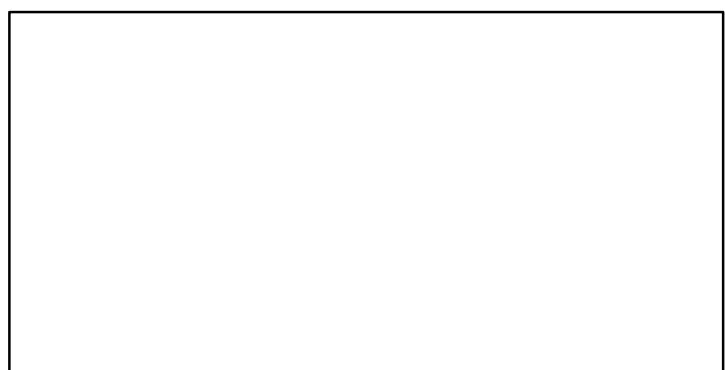
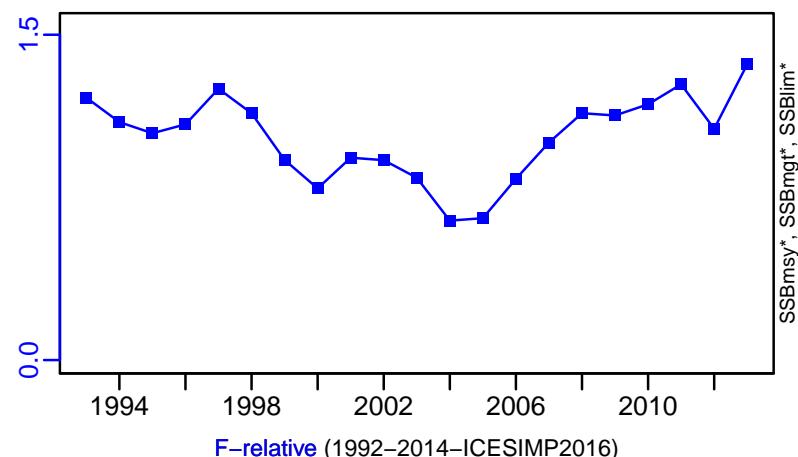
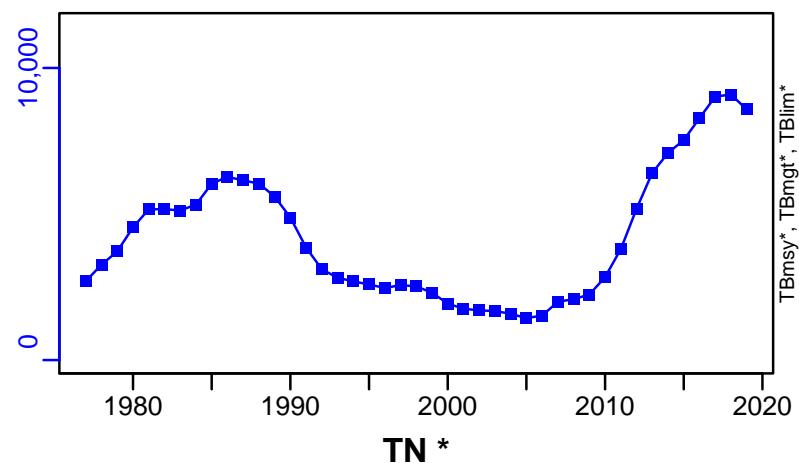


◆ Start Year ◆ End Year * No Data

European plaice Celtic Sea [PLAICCELT]

TB-MT (1977–2019–ICESIMP2021)

SSB-relative (1992–2014–ICESIMP2016)

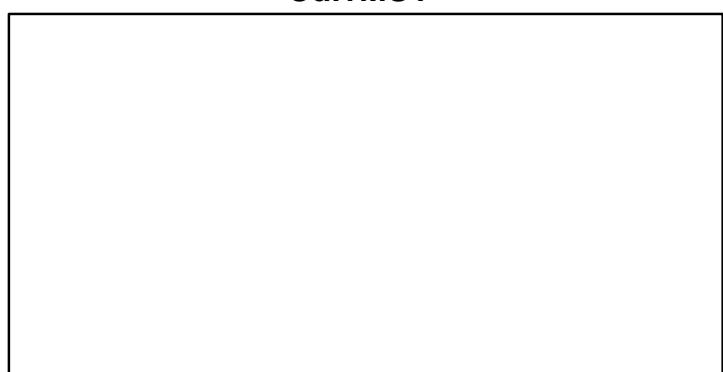
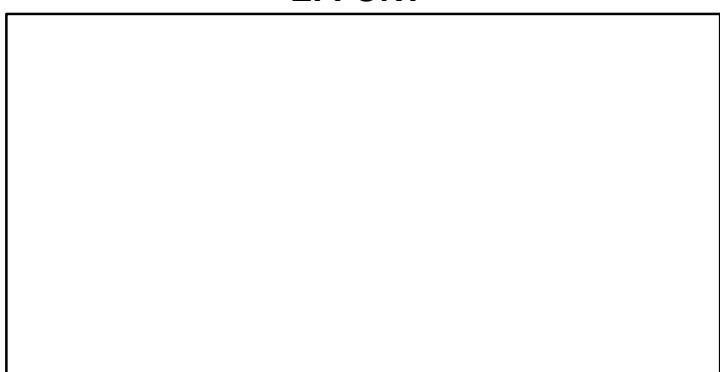
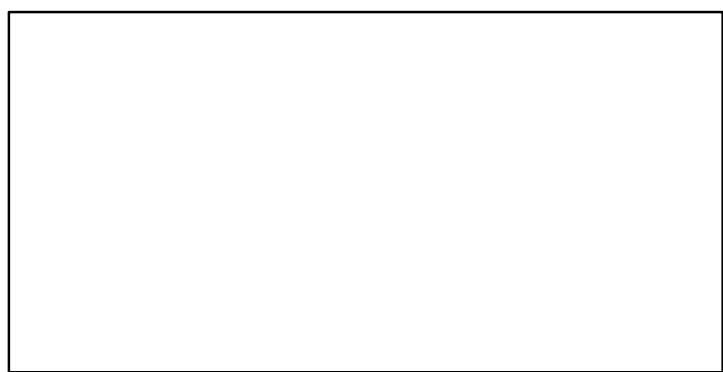
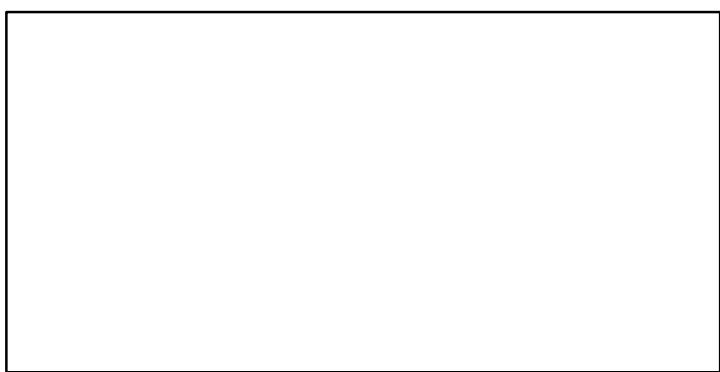
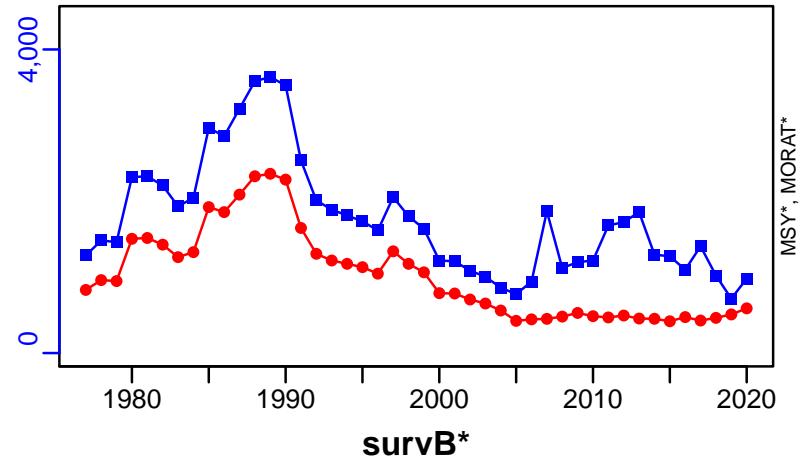


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	··· Lim BRP	* No Data

European plaice Celtic Sea [PLAICCELT]

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

TAC*, Cpair*, Cadv*



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

European plaice Western English Channel [PLAICECHW]

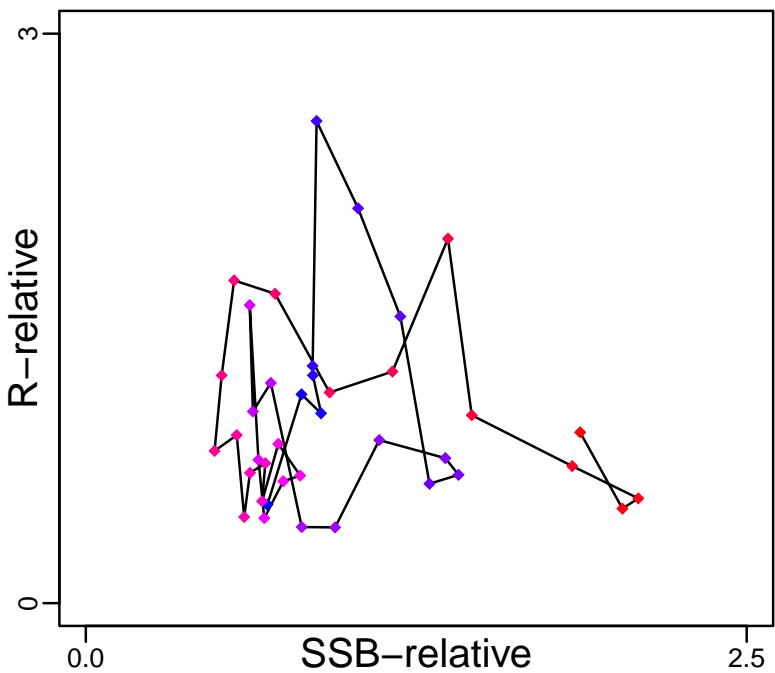
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICECHW-1980-2020-ICESIMP2021-2
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2016, 2018, 2019,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

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

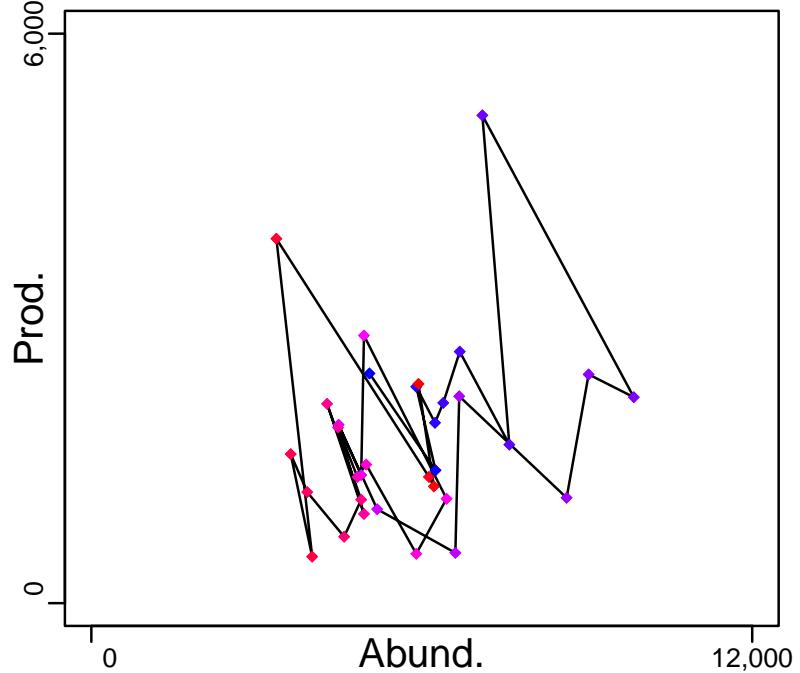
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-relative	2019	1.545	-	-	
SSB	SSB-relative	2020	1.49	-	-	
TN	-	-	-	-	-	
R	R-relative	2020	0.9	-	2	
F	F-relative	2019	0.613	-	3 to 6	
ER	ER-calc-ratio	2014	0.227	-	-	
TC	TC-MT	2016	2940			
TL	TL-MT	2020	1730			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-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

Kobe MSY***Kobe MGT***

Spawner Recruit (1980–2020–ICESIMP2021–2)



Production (1979–2014–ICESIMP2016)

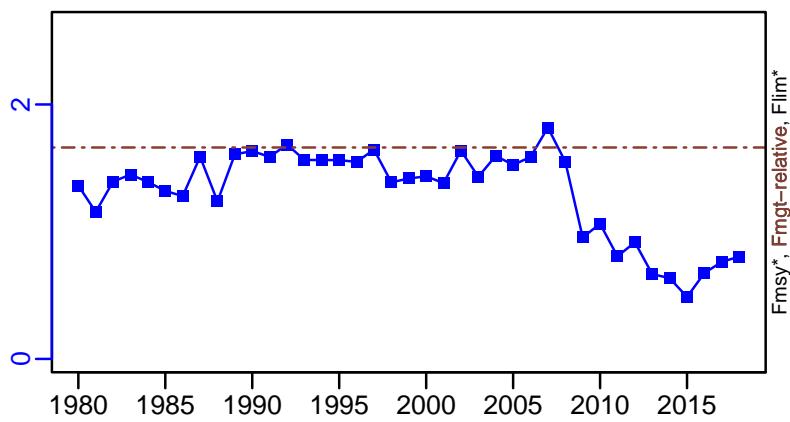
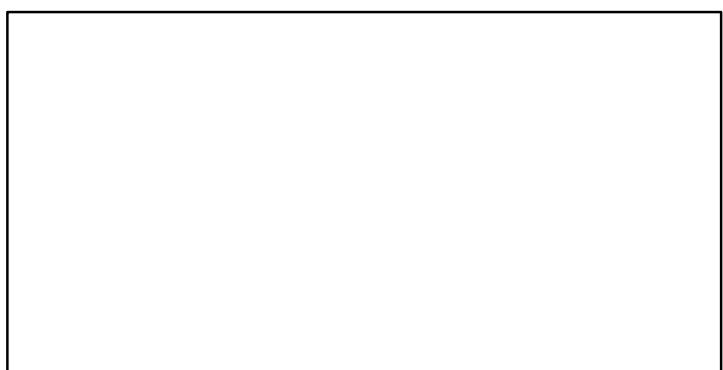
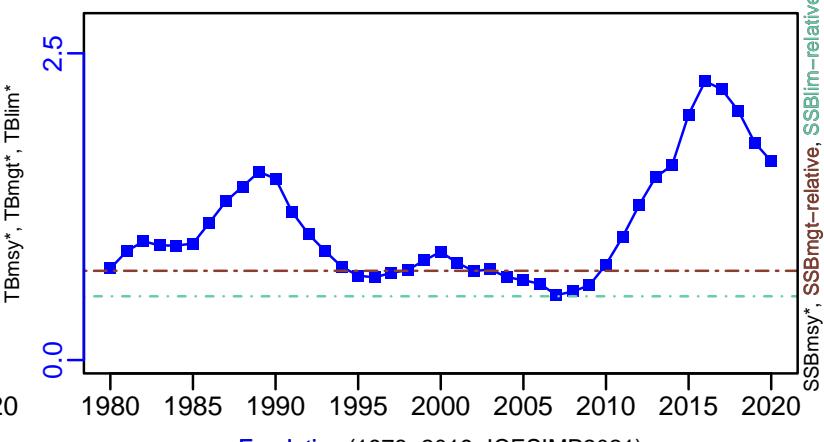
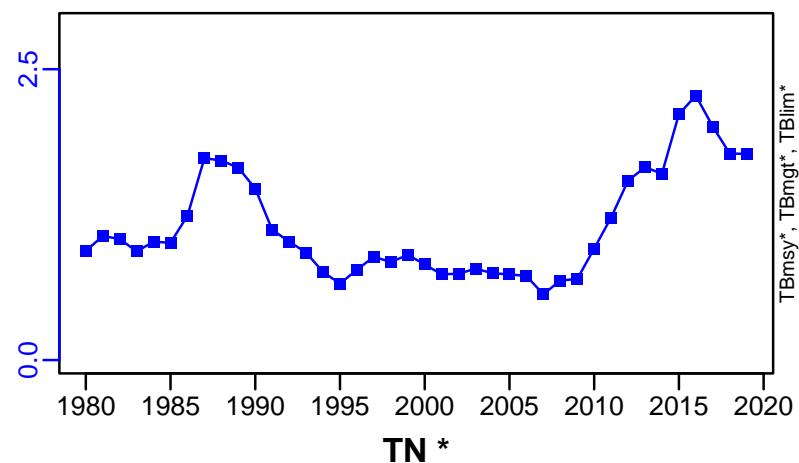


◆ Start Year	◆ End Year	*	No Data
--------------	------------	---	---------

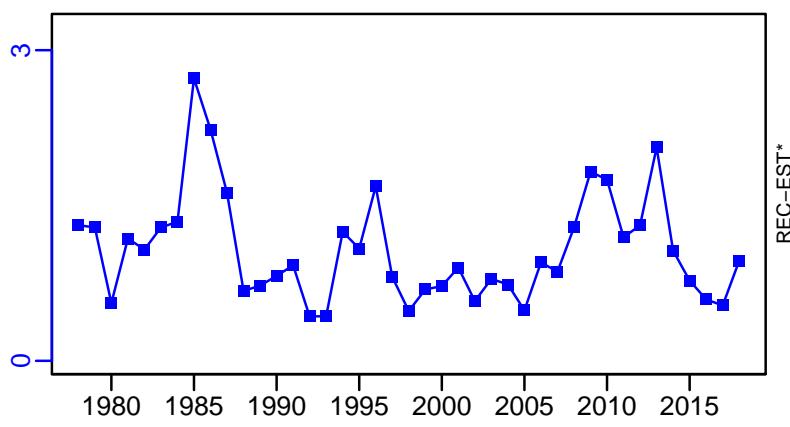
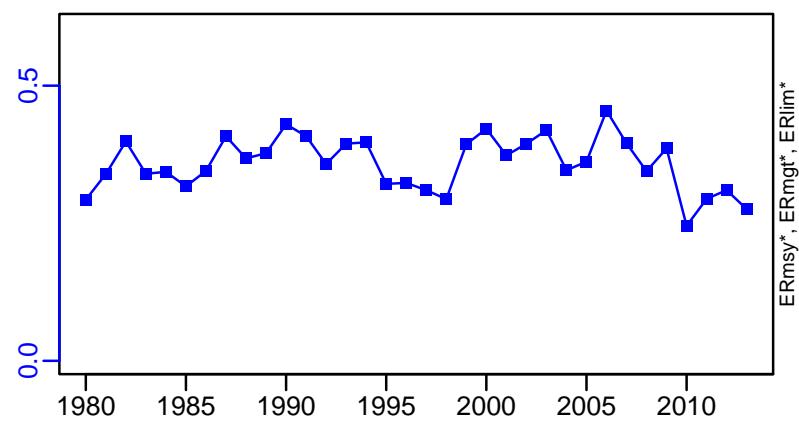
European plaice Western English Channel [PLAICECHW]

TB-relative (1978–2019–ICESIMP2021)

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



ER-calc-ratio (1979–2014–ICESIMP2016)

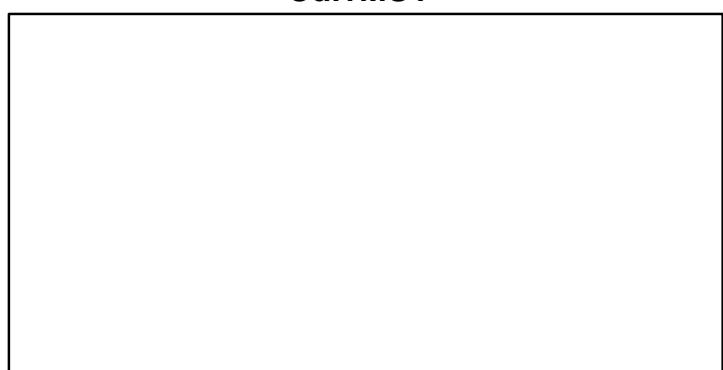
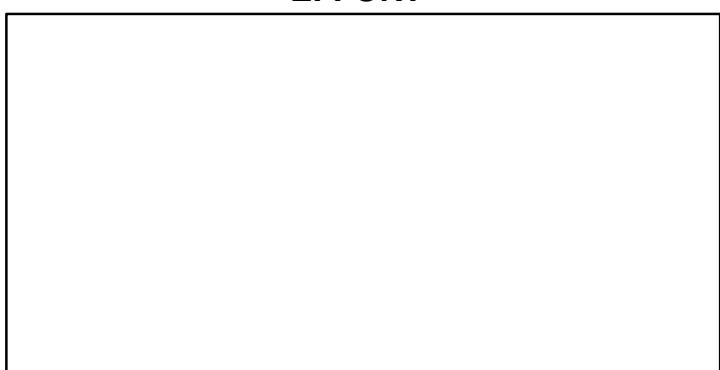
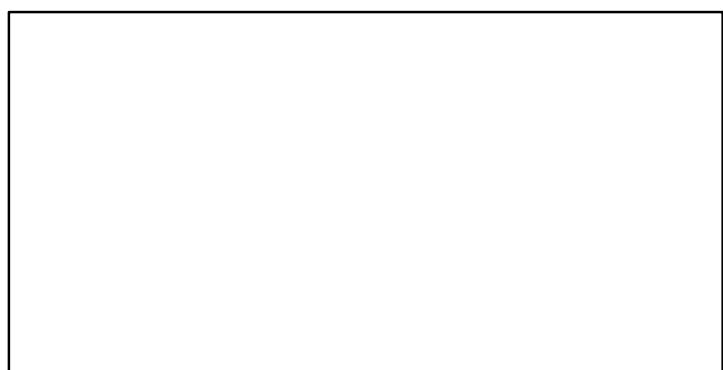
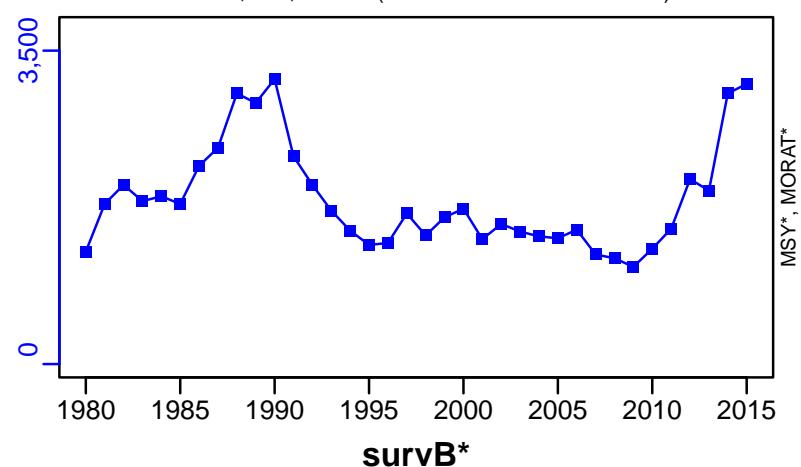


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

European plaice Western English Channel [PLAICECHW]

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

TAC*, Cpair*, Cadv*



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

European plaice Irish Sea [PLAICIS]

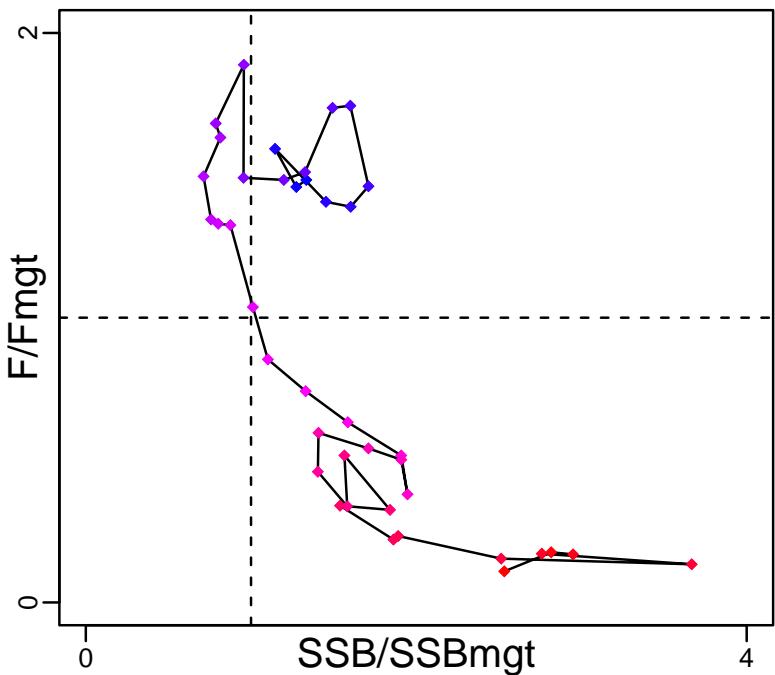
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICIS-1981-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020, 2021, 2014,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

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

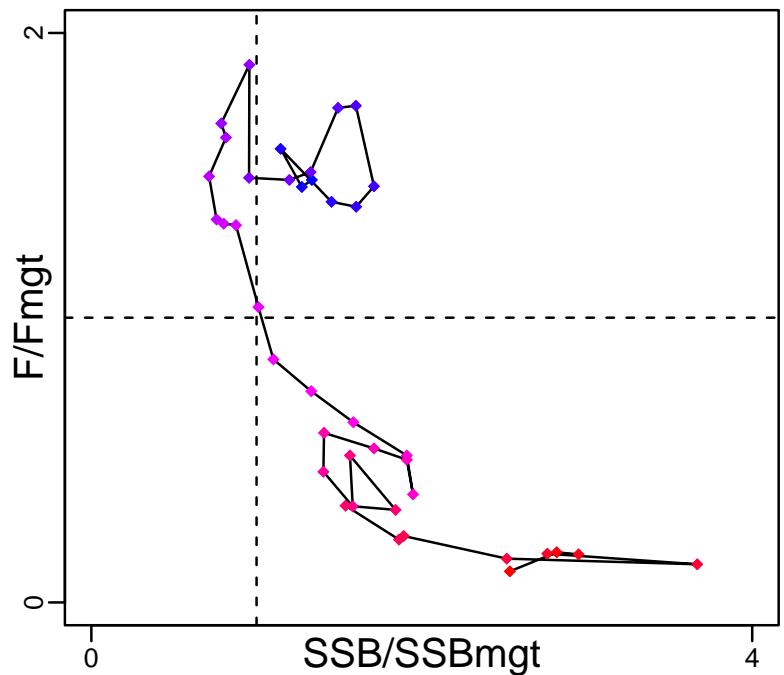
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	19,350	-	-	
SSB	SSB-MT	2021	15,800	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	1.3×10^7	-	1	
F	F-1/yr	2021	0.044	-	-	
ER	ER-ratio	2019	0.064	-	3 to 6	
TC	TC-MT	2019	830			
TL	TL-MT	2021	330			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr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

European plaice Irish Sea [PLAICIS]

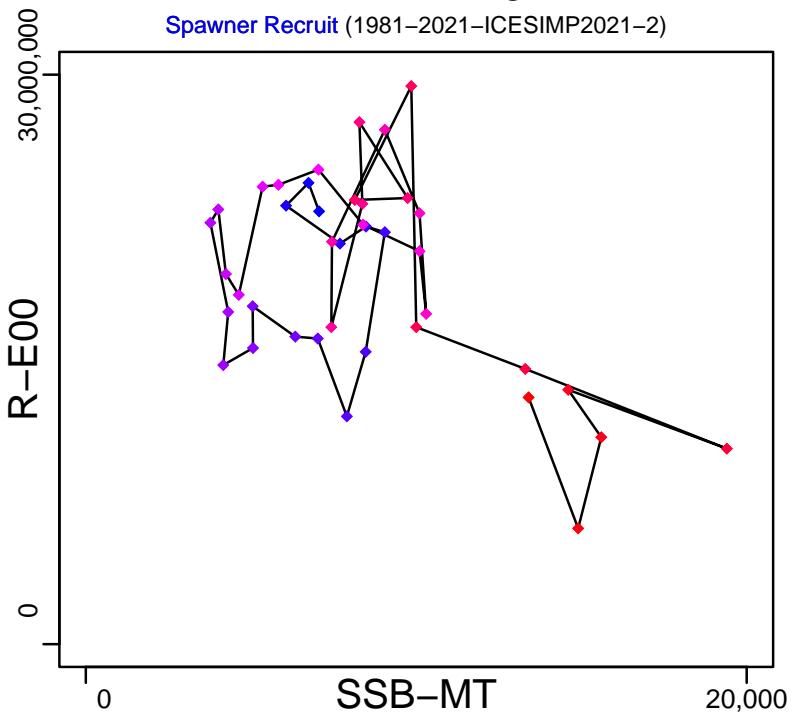
Kobe MSYpref (1981–2021–ICESIMP2021–2)



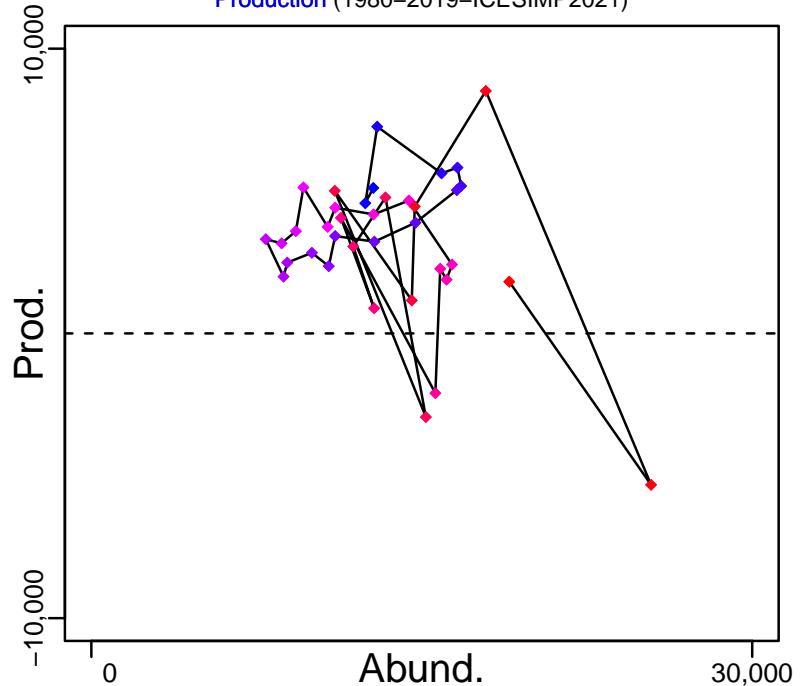
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2021–ICESIMP2021–2)



Production (1980–2019–ICESIMP2021)

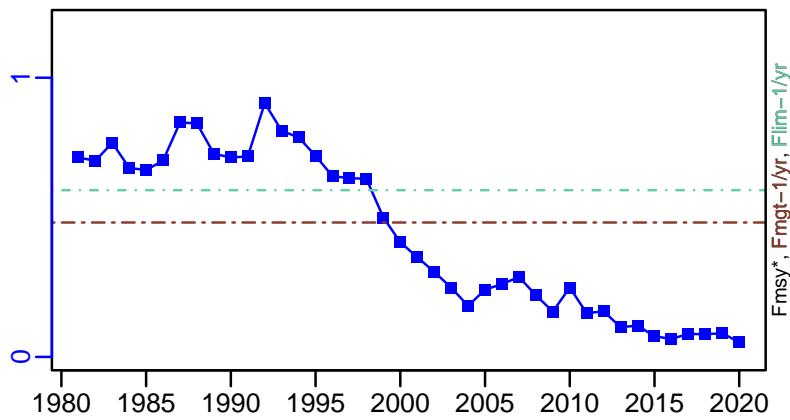
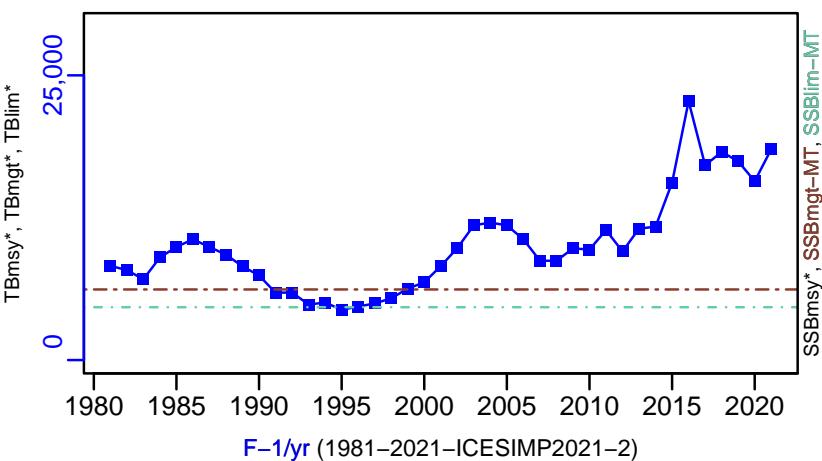
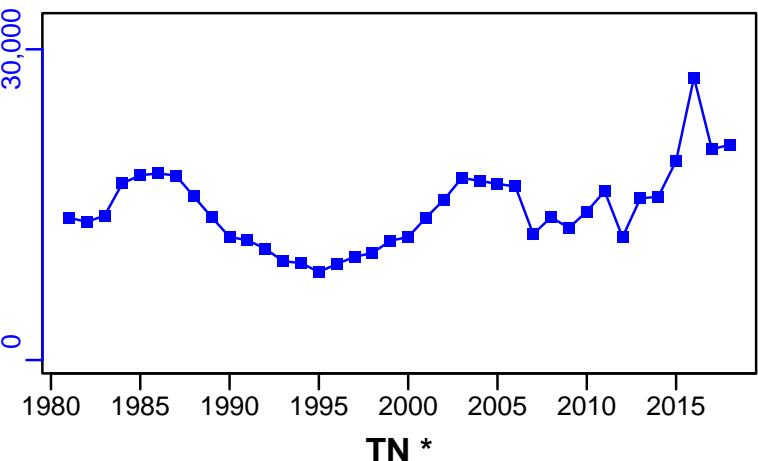


◆ Start Year ◆ End Year * No Data

European plaice Irish Sea [PLAICIS]

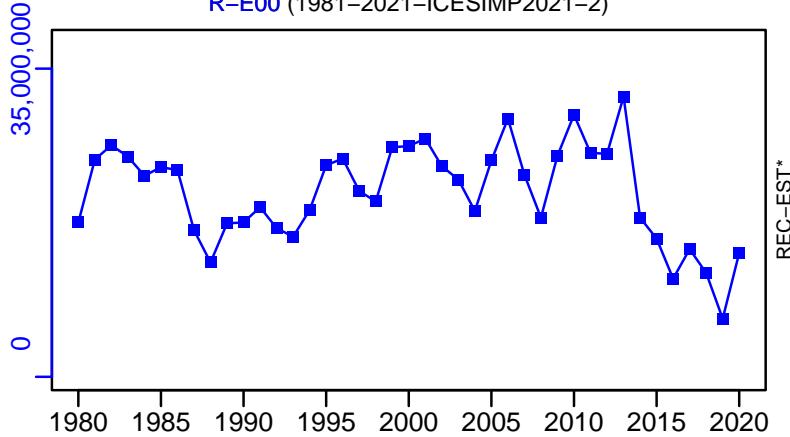
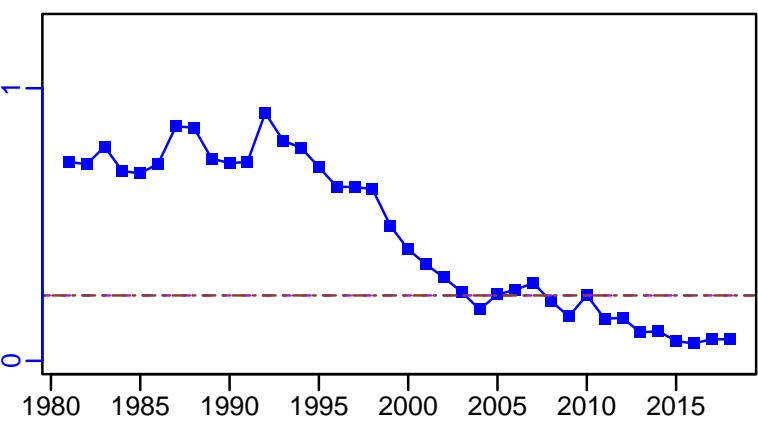
TB-MT (1980–2019–ICESIMP2021)

SSB-MT (1981–2021–ICESIMP2021–2)



ER-ratio (1980–2019–ICESIMP2021)

R-E00 (1981–2021–ICESIMP2021–2)

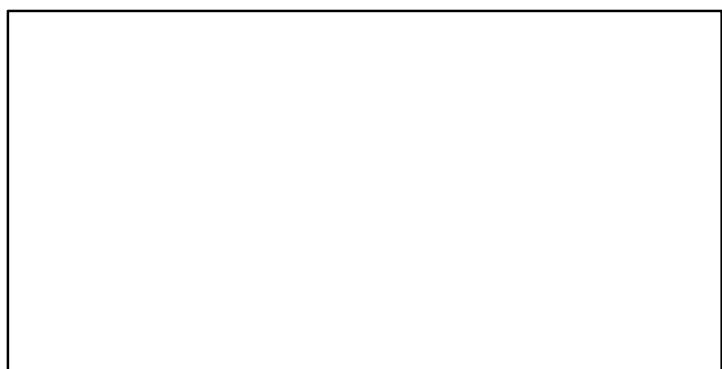
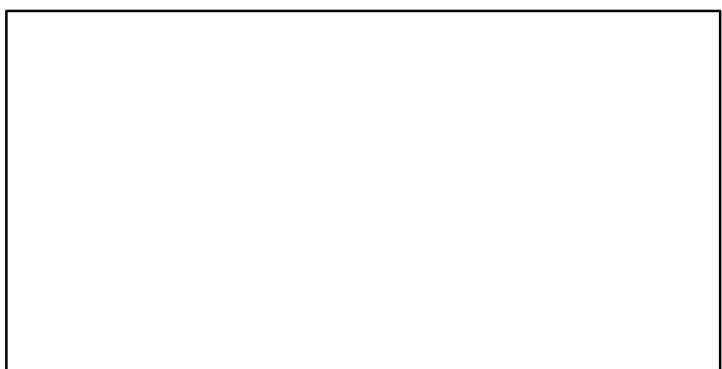
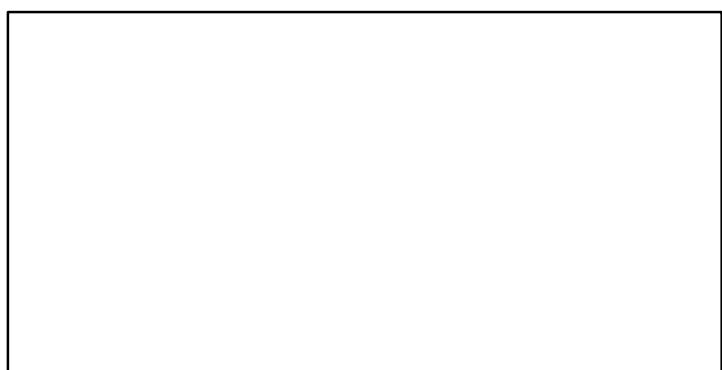
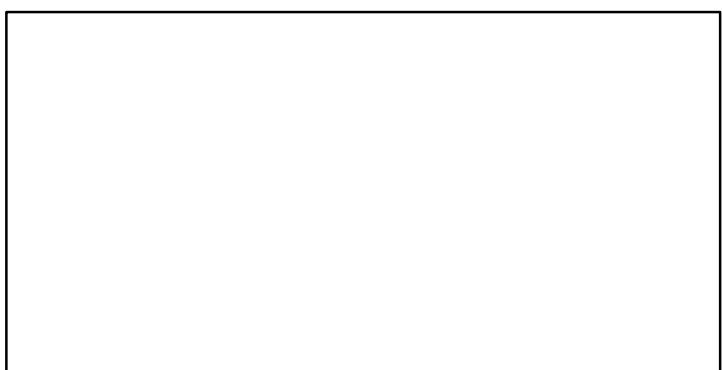
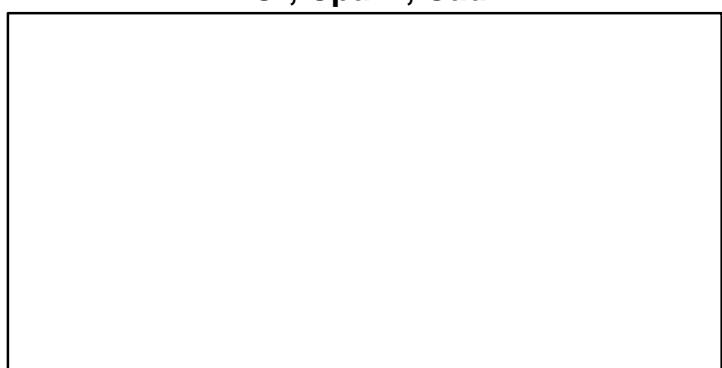
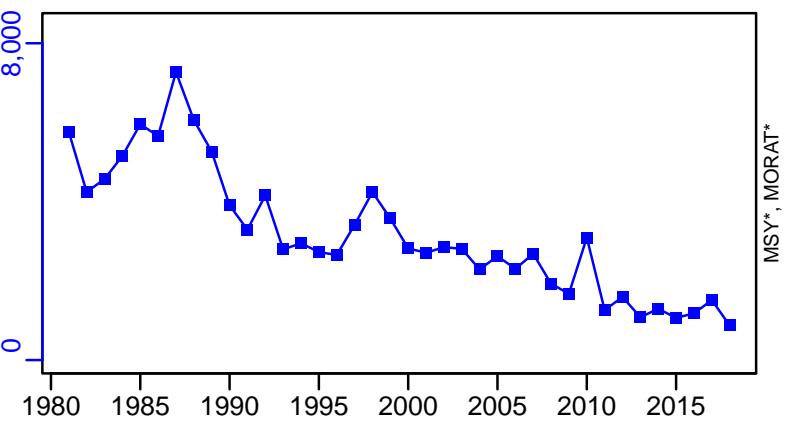


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

European plaice Irish Sea [PLAICIS]

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

TAC*, Cpair*, Cadv*



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

European plaice North Sea [PLAICNS]

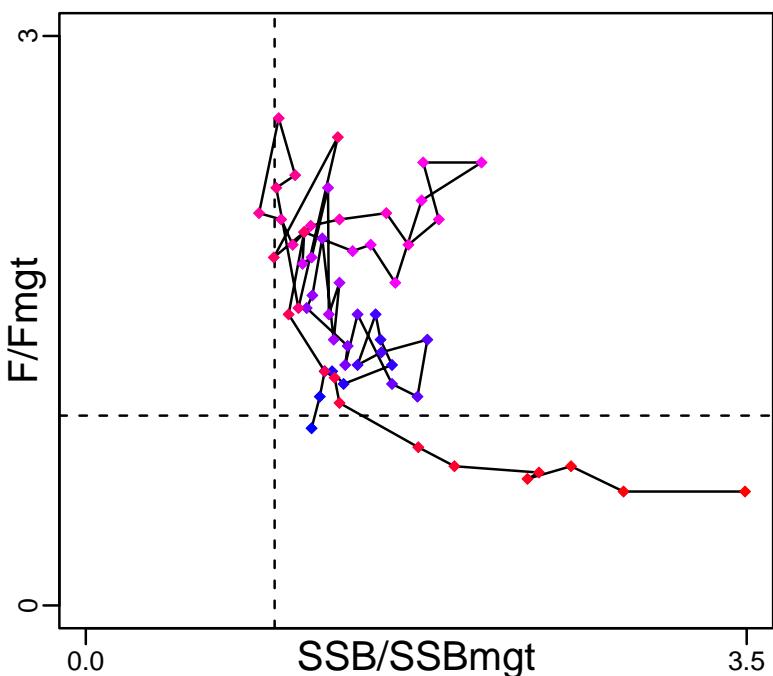
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICNS-1956-2023-ICESIMP2024
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010,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

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

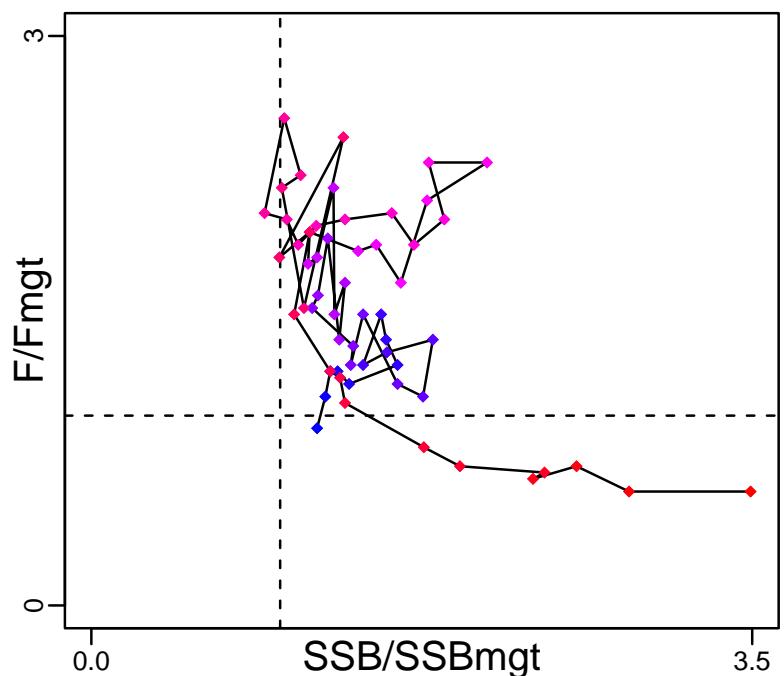
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2023	1,040,356	-	-	
SSB	SSB-MT	2023	893,313	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	3,701,607	-	1	
F	F-1/yr	2023	0.085	-	-	
ER	ER-calc-ratio	2023	0.062	-	-	
TC	TC-MT	2023	64,897			
TL	TL-MT	2023	25,543			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

European plaice North Sea [PLAICNS]

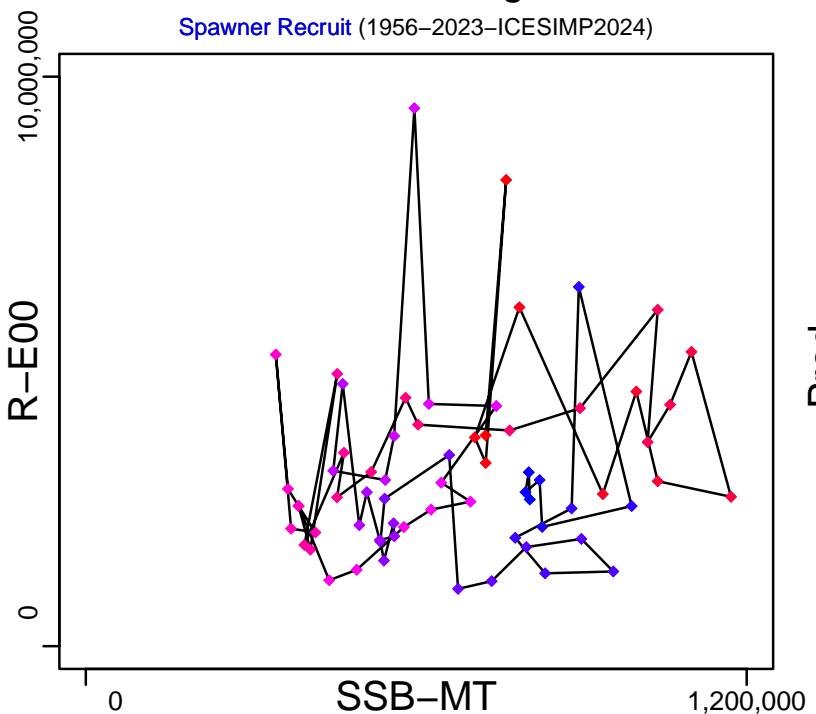
Kobe MSYpref (1956–2015–ICESIMP2016)



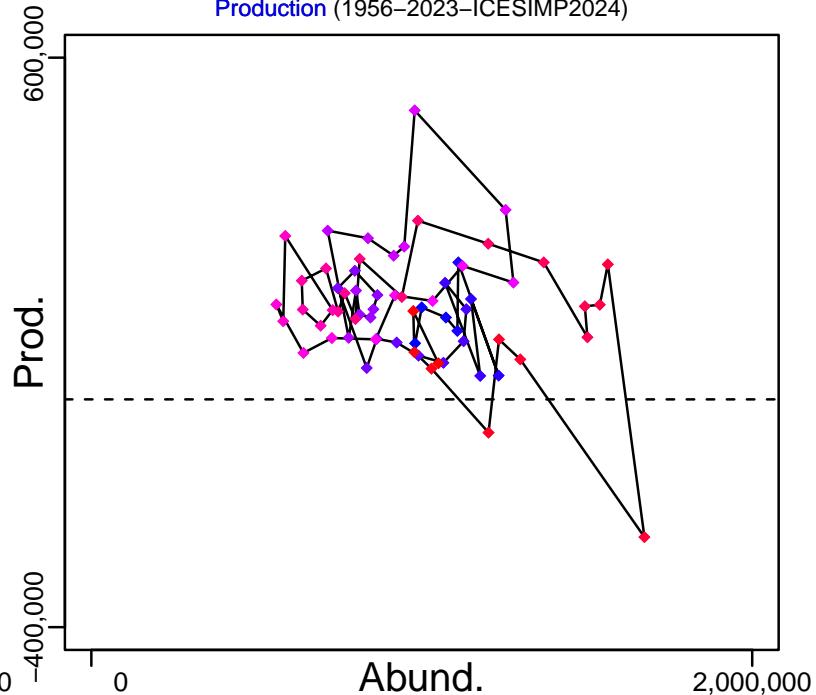
Kobe MGTpref (1956–2015–ICESIMP2016)



Spawner Recruit (1956–2023–ICESIMP2024)



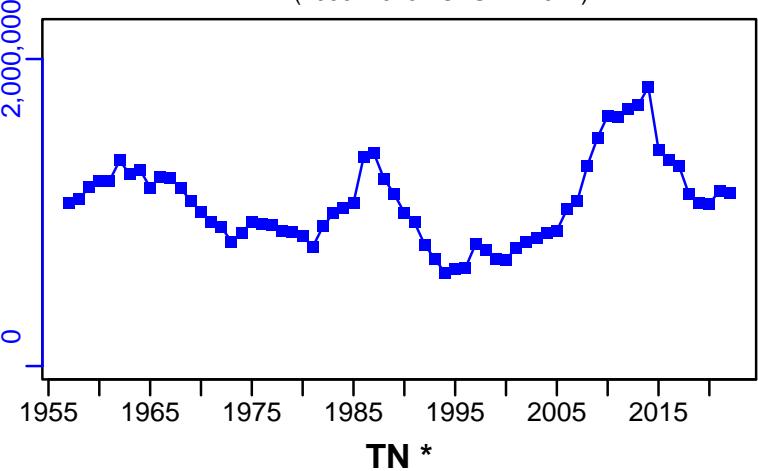
Production (1956–2023–ICESIMP2024)



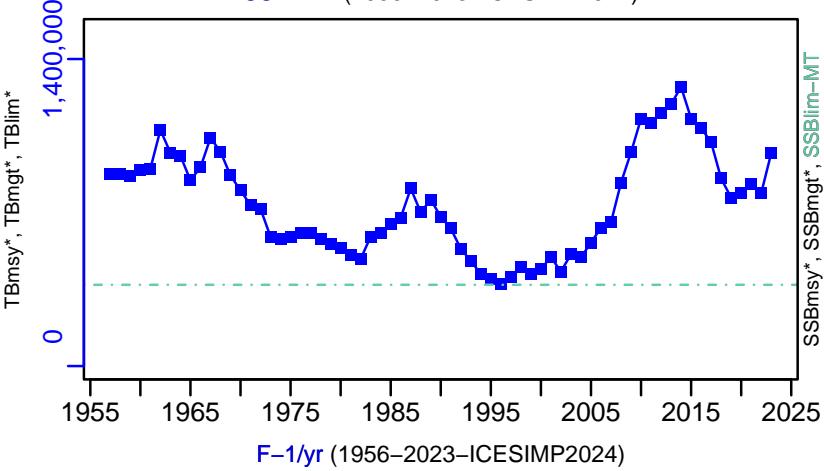
◆ Start Year ◆ End Year * No Data

European plaice North Sea [PLAICNS]

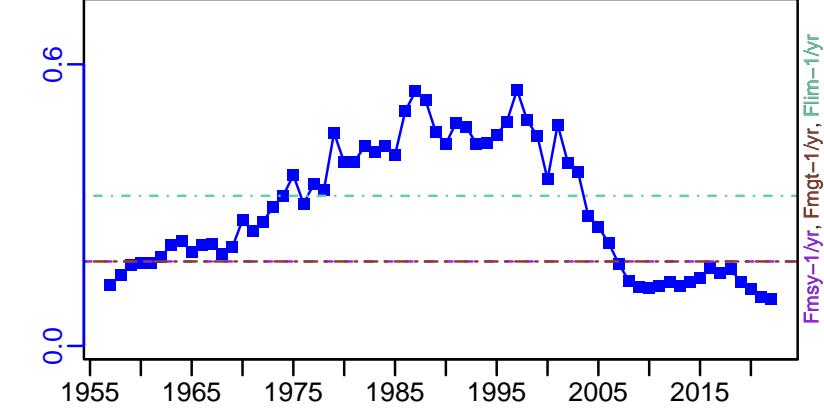
TB-MT (1956–2023–ICESIMP2024)



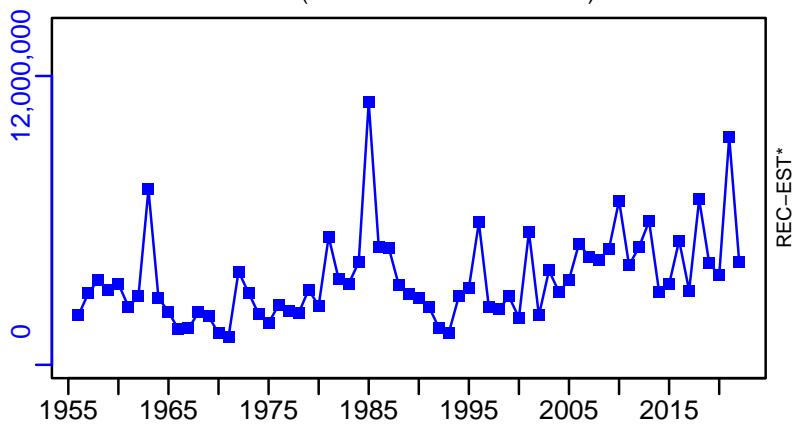
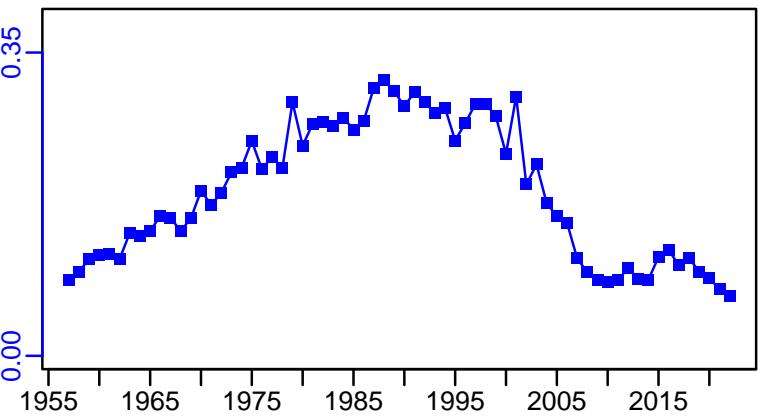
SSB-MT (1956–2023–ICESIMP2024)



ER-calc-ratio (1956–2023–ICESIMP2024)



R-E00 (1956–2023–ICESIMP2024)

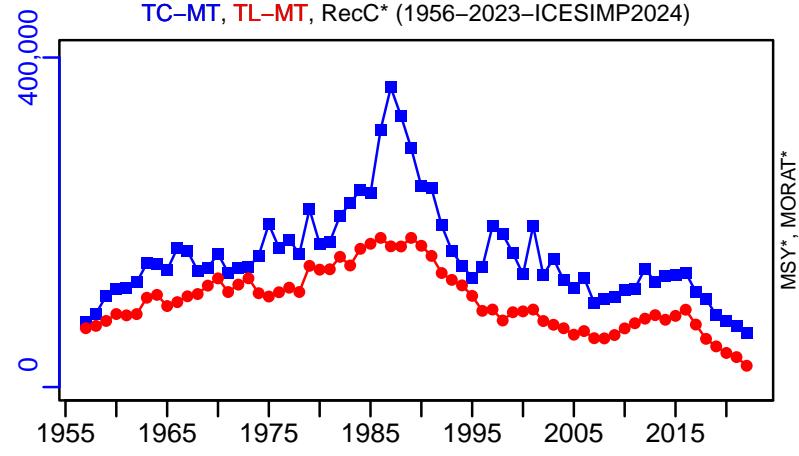


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	- - Lim BRP	* No Data

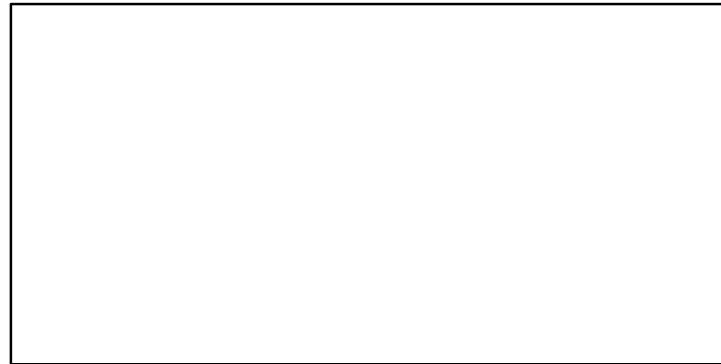
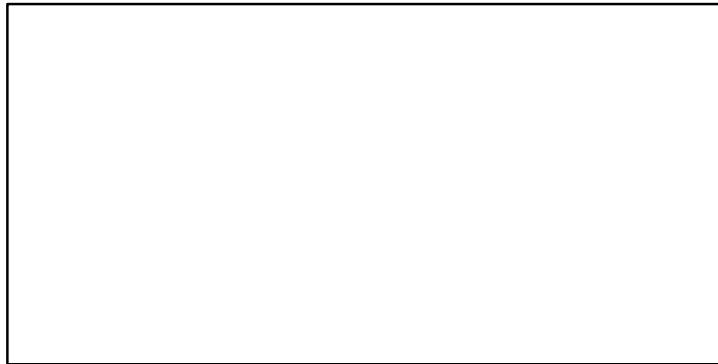
European plaice North Sea [PLAICNS]

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

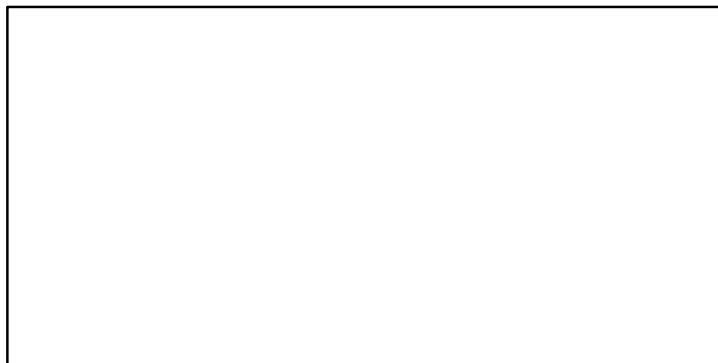
TAC*, Cpair*, Cadv*



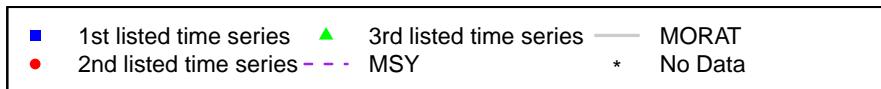
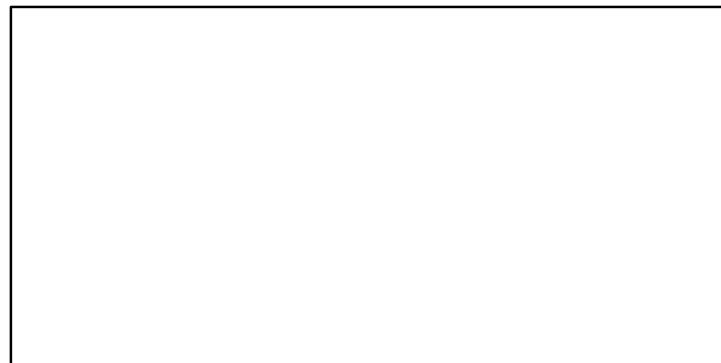
CPUE*



EFFORT*



CdivMSY*



European plaice ICES 7bc [PLAICVIIbc]

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

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

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

Kobe MSY*

Kobe MGT*

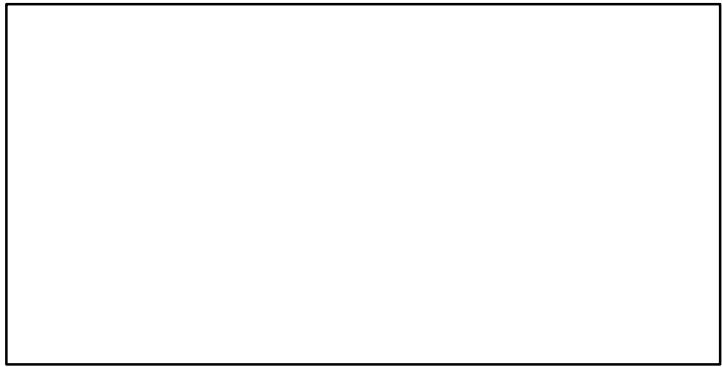
Spawner Recruit*

Production*

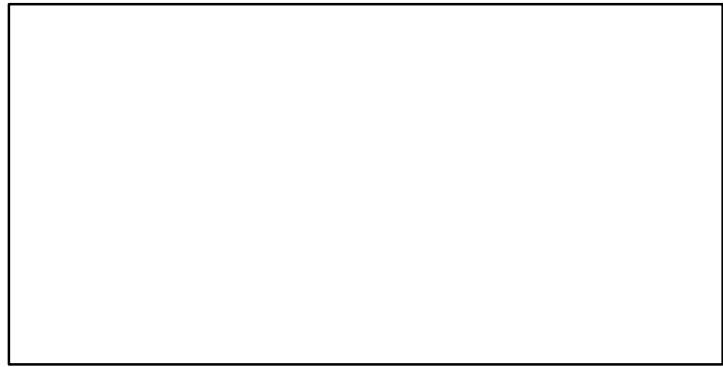
◆ Start Year ♦ End Year * No Data

European plaice ICES 7bc [PLAICVIIbc]

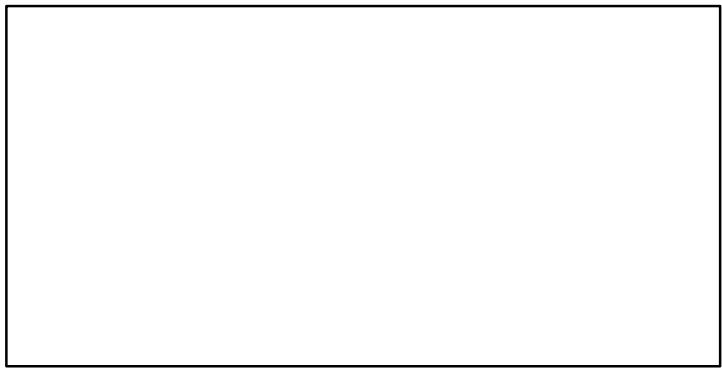
TB*



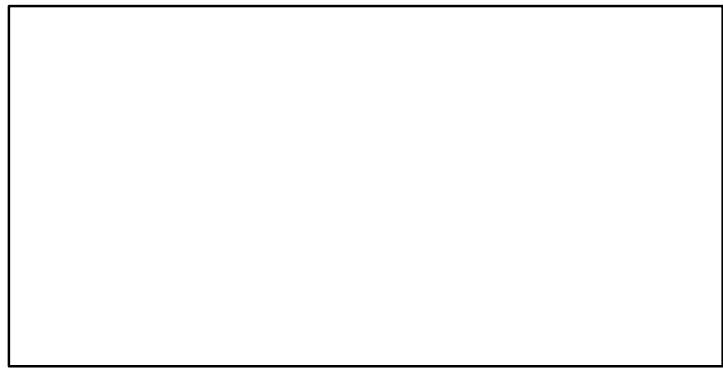
SSB*



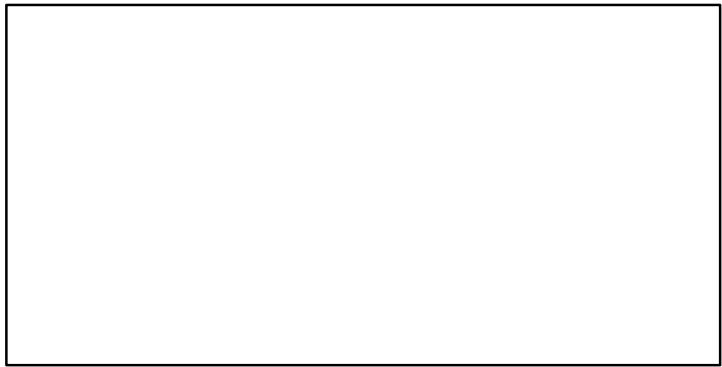
TN *



F*



ER*



Recruits*

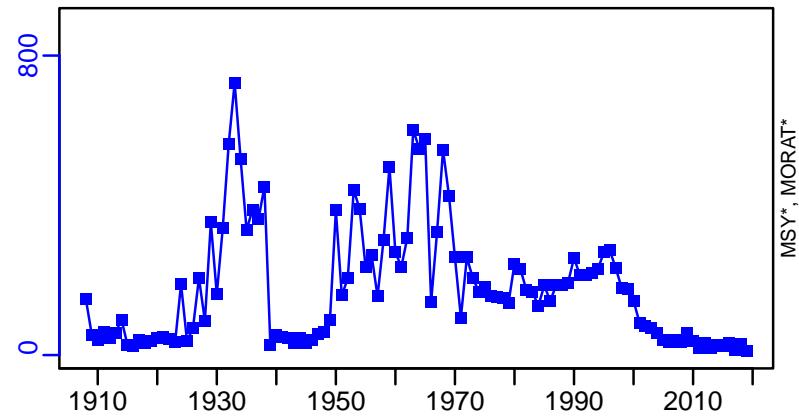


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

European plaice ICES 7bc [PLAICVIIbc]

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

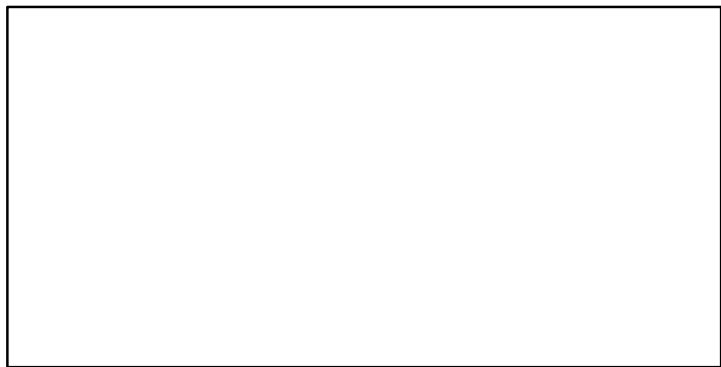
TAC*, Cpair*, Cadv*



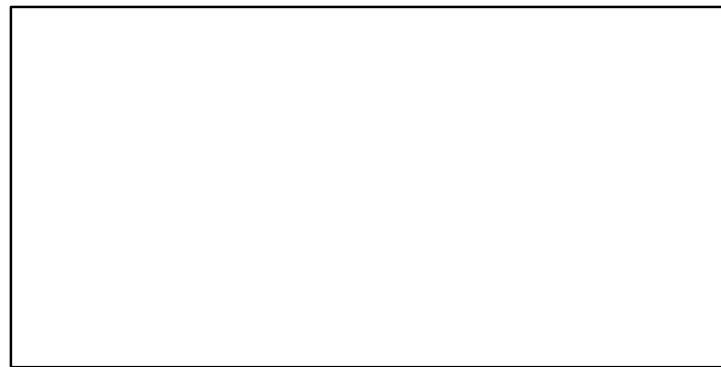
CPUE*



EFFORT*



CdivMSY*



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

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

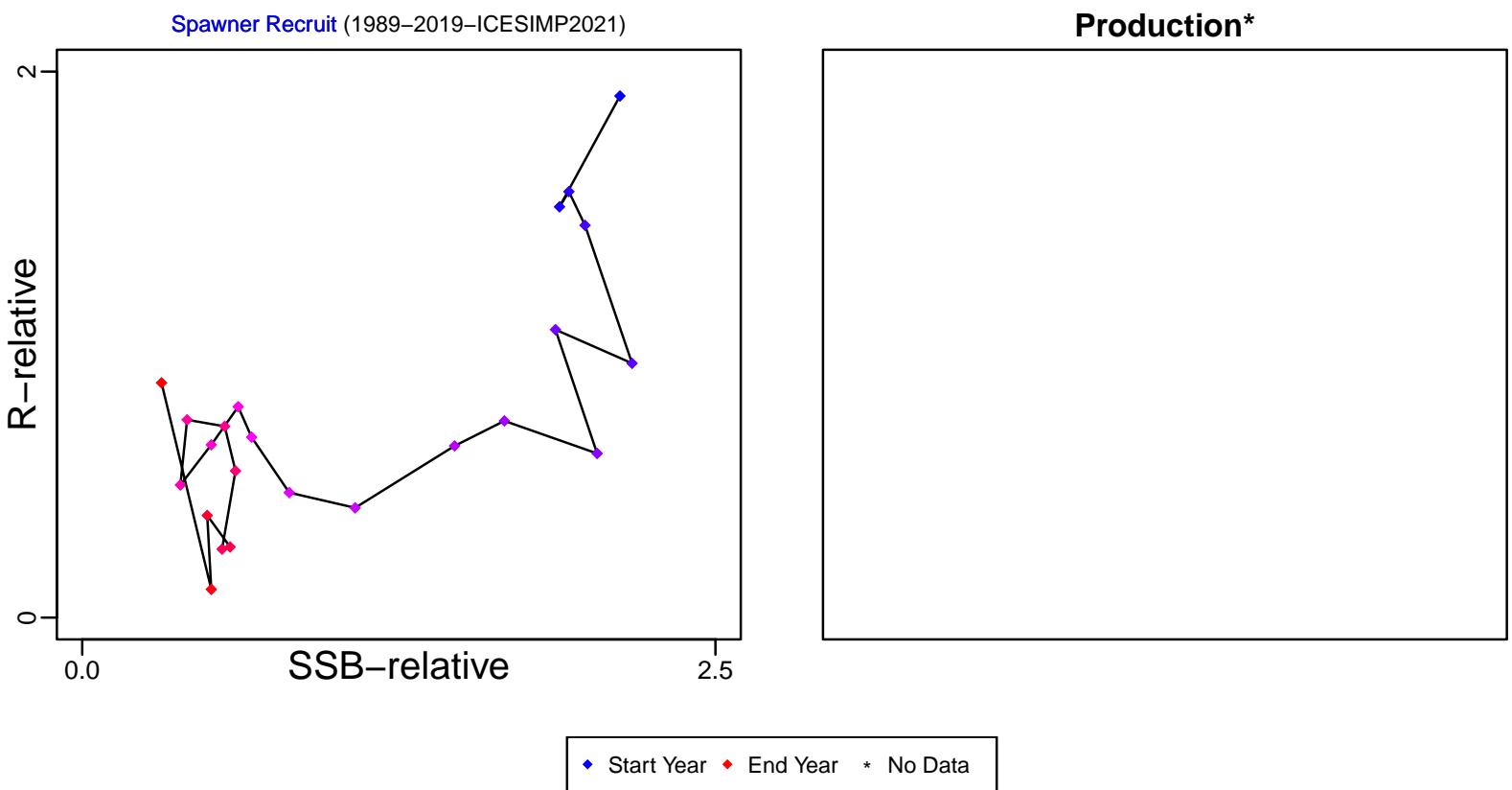
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIh-k-1995-2020-ICESIMP2021-2
Area	ICES 7h-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2018, 2019, 2020

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

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

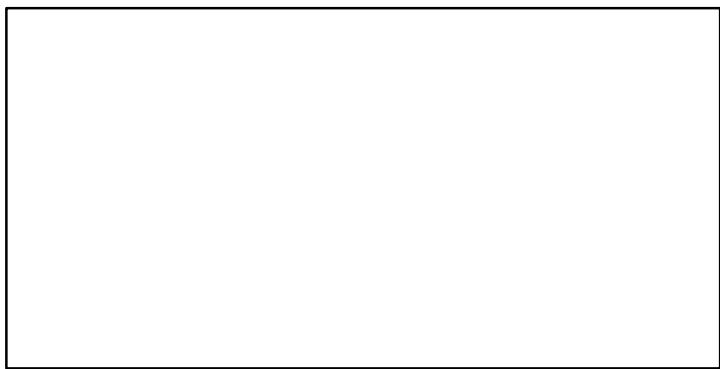
Kobe MSY*

Kobe MGT*

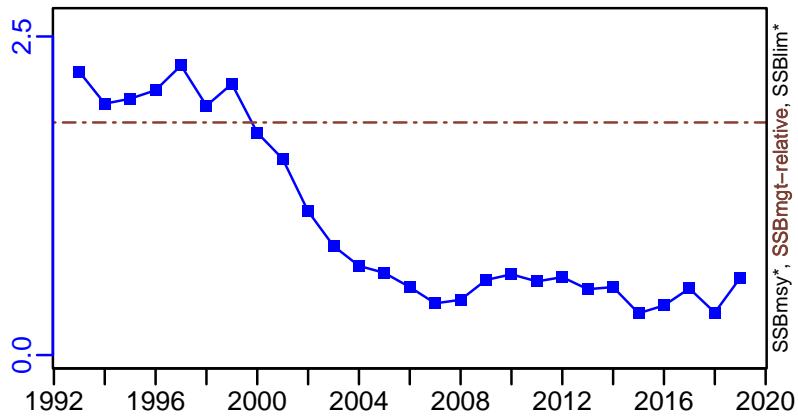


European plaice ICES 7h–k [PLAICVIIh–k]

TB*



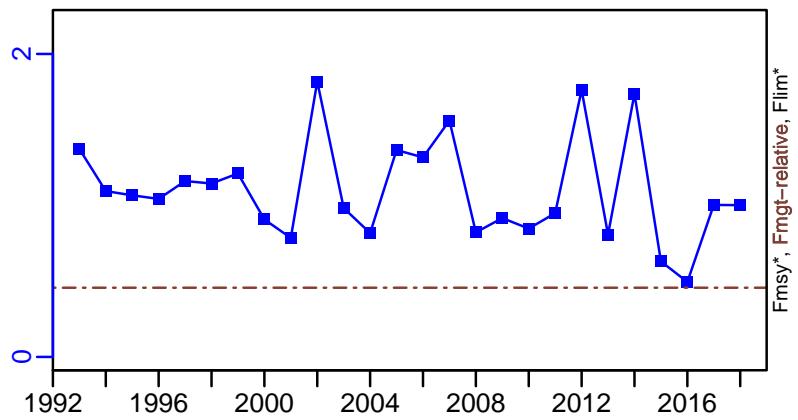
SSB-relative (1989–2019–ICESIMP2021)



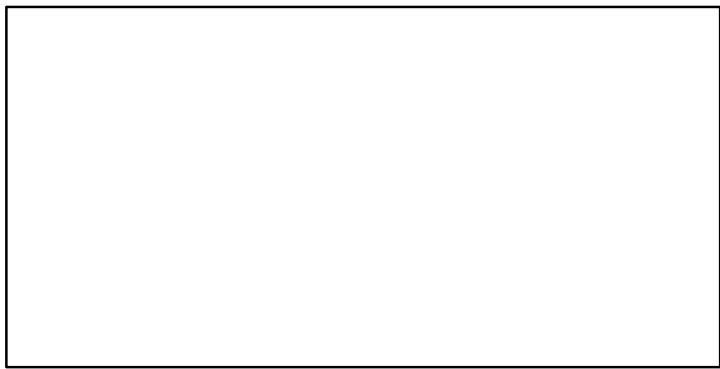
TN *



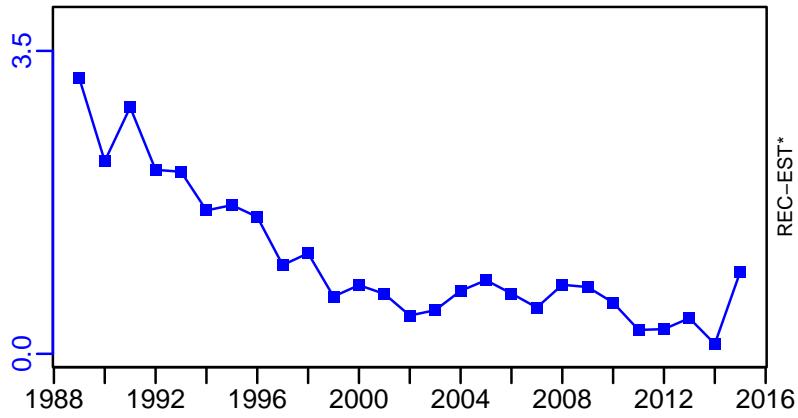
F-relative (1989–2019–ICESIMP2021)



ER*



R-relative (1989–2019–ICESIMP2021)

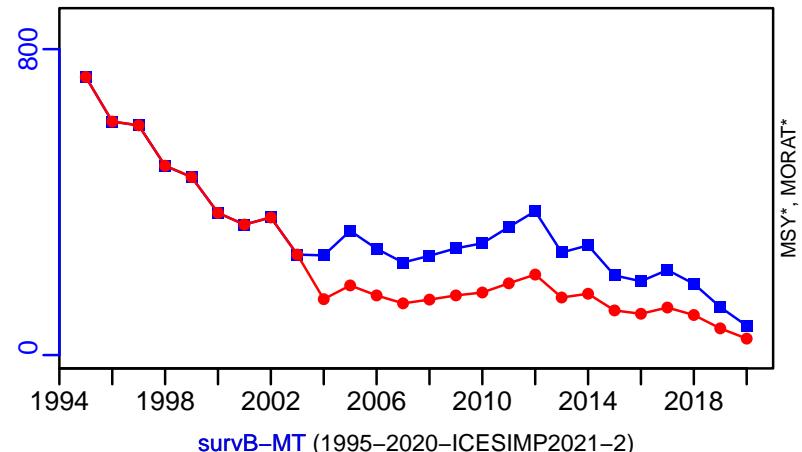


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

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

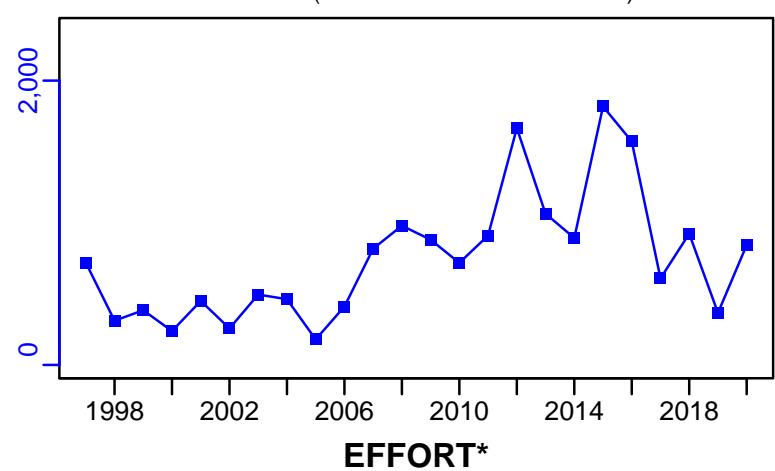
TC–MT, TL–MT, RecC* (1995–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB–MT (1995–2020–ICESIMP2021–2)

MSY*, MORAT*



EFFORT*

CPUE*



CdivMSY*



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

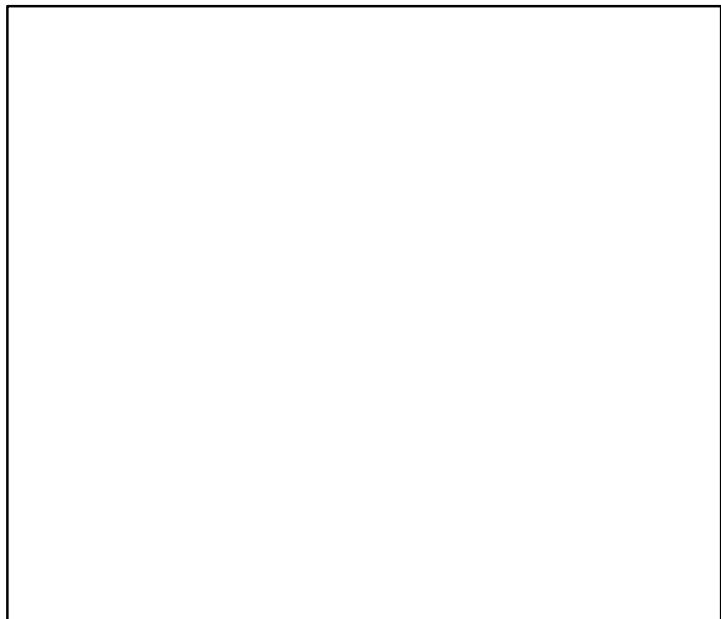
European plaice ICES 8-9a [PLAICVIII-IXa]

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

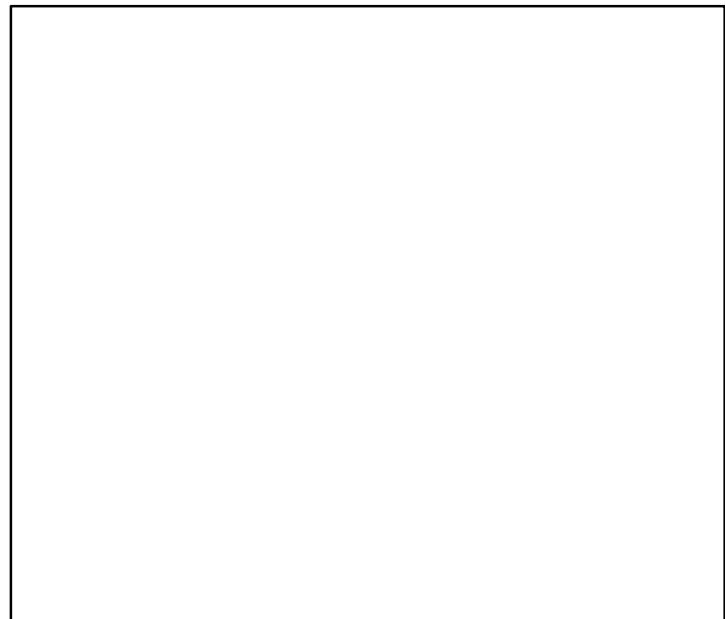
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



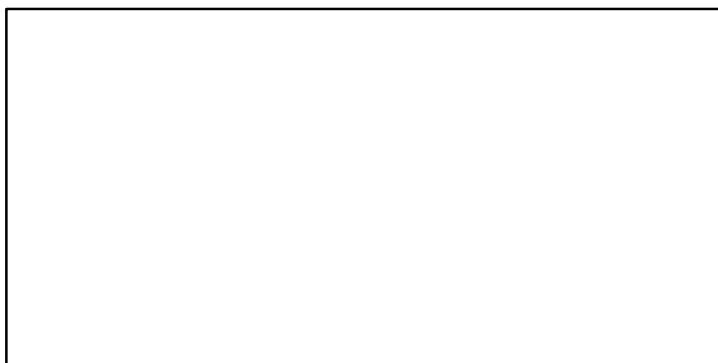
TN *



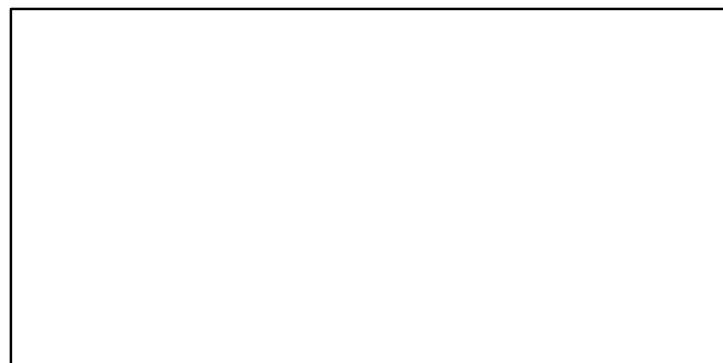
F*



ER*



Recruits*

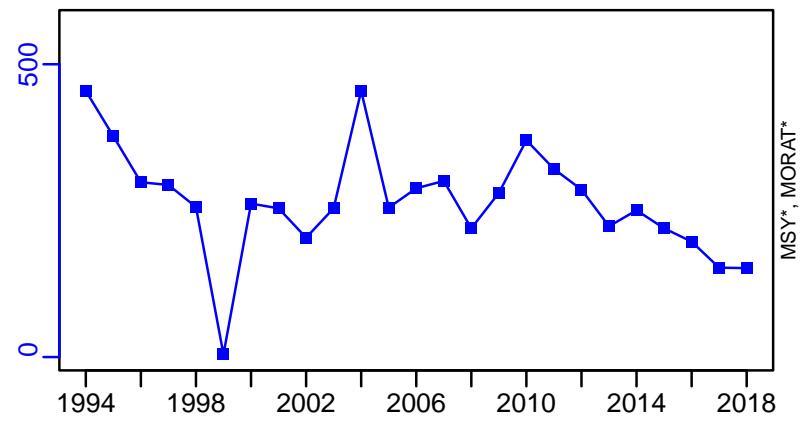


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

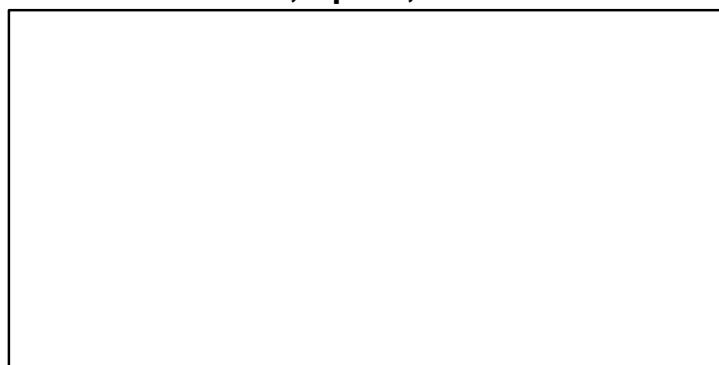
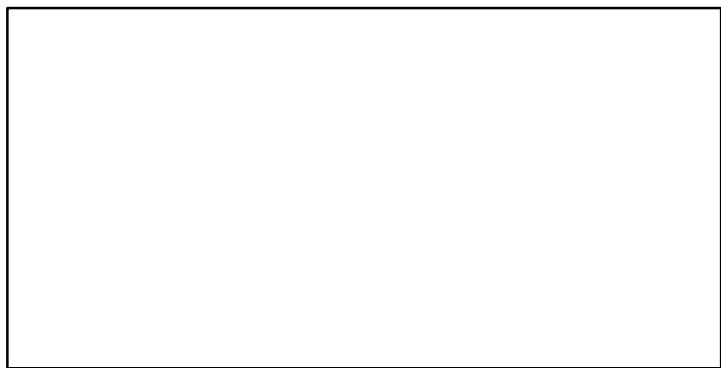
European plaice ICES 8–9a [PLAICVIII–IXa]

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

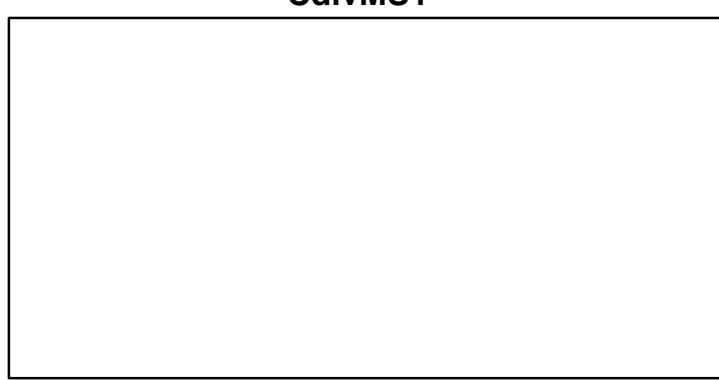
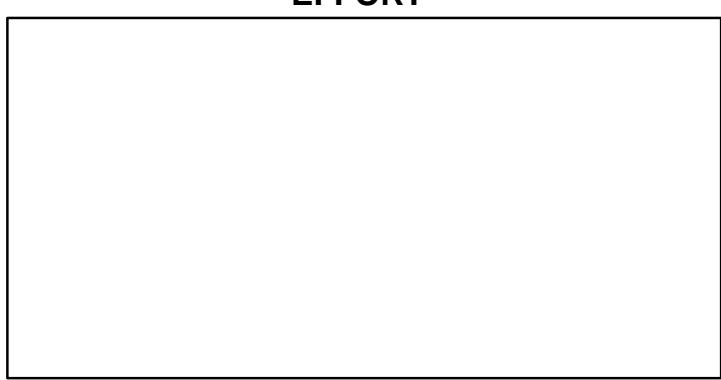
TAC*, Cpair*, Cadv*



MSY*, MORAT*



CPUE*



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

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

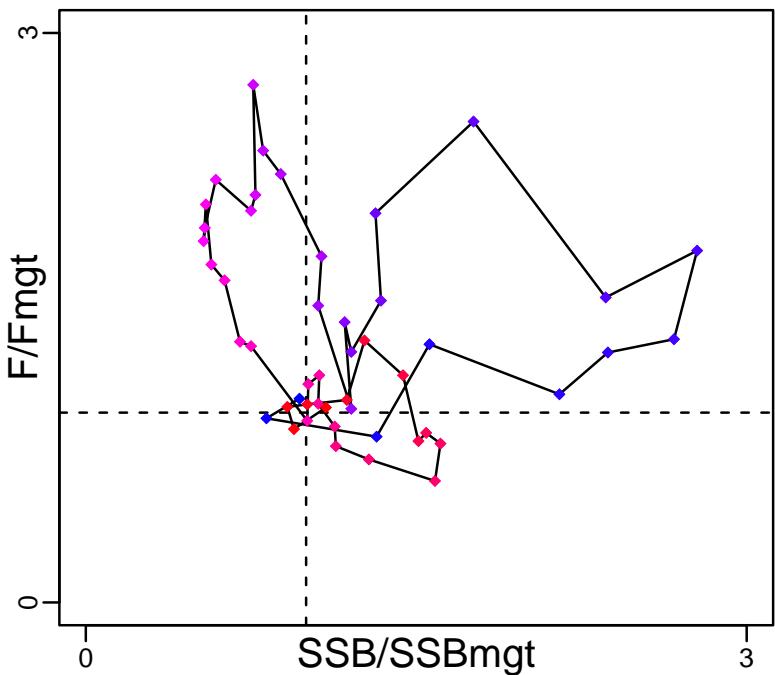
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	WGNSSK-POLLNS-VI-IIla-1967-2021-ICESIMP2021-2
Area	ICES 3a-4-6
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM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

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

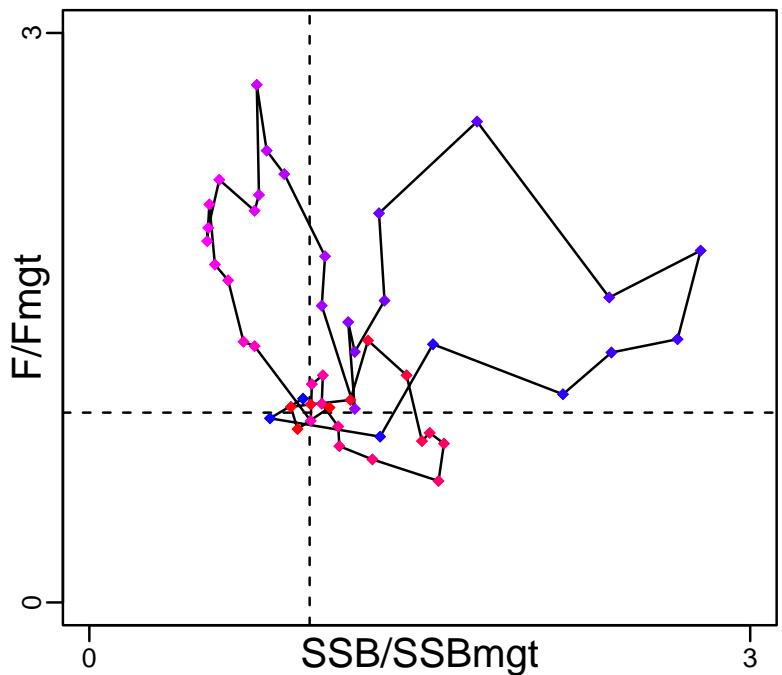
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	383,325	-	-	
SSB	SSB-MT	2021	138,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	71,500,000	-	3	
F	F-1/yr	2021	0.453	-	-	
ER	ER-calc-ratio	2019	0.246	-	-	
TC	TC-MT	2021	76,800			
TL	TL-MT	2021	73,800			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

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

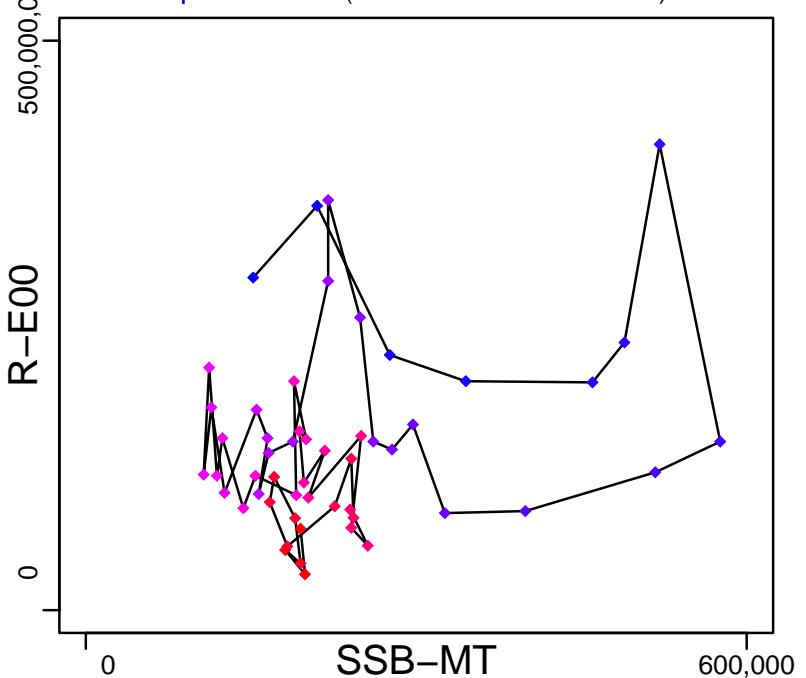
Kobe MSYpref (1964–2015–ICESIMP2016)



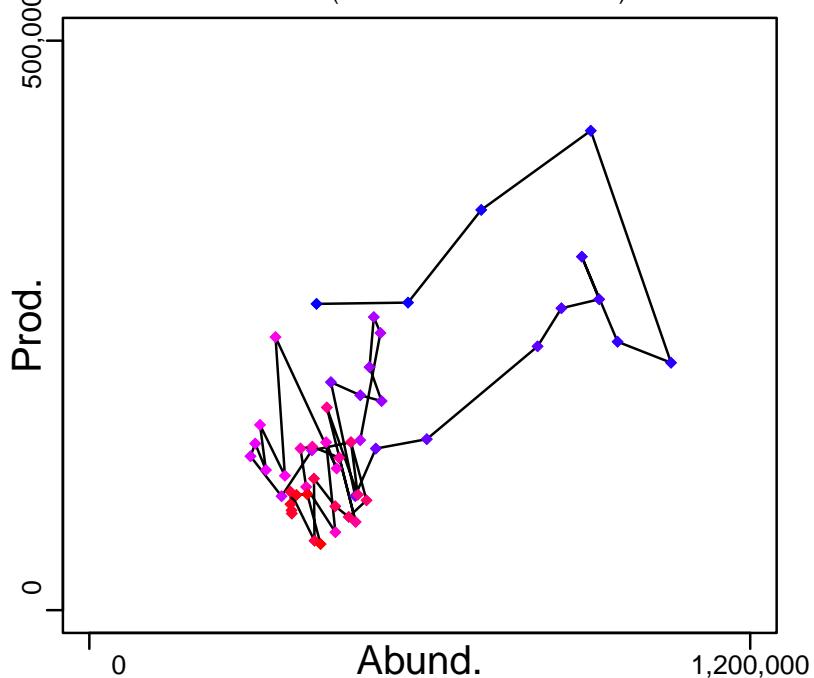
Kobe MGTpref (1964–2015–ICESIMP2016)



Spawner Recruit (1967–2021–ICESIMP2021-2)



Production (1964–2019–ICESIMP2021)

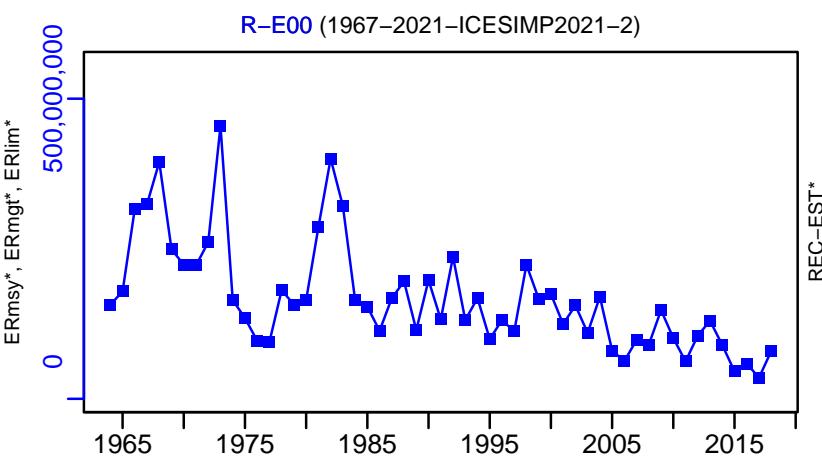
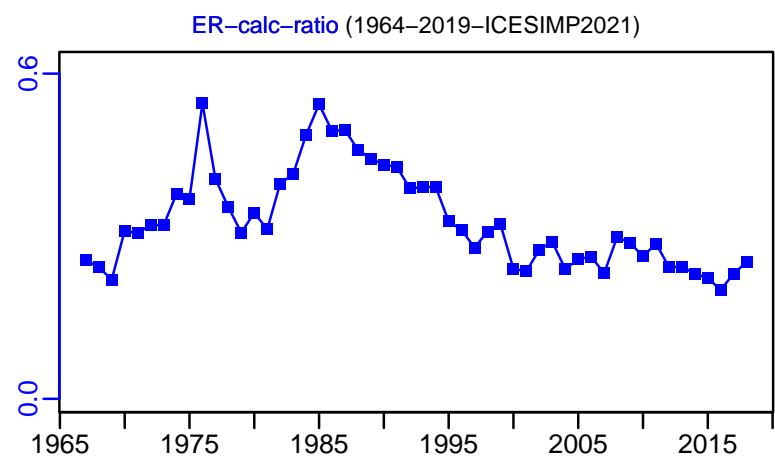
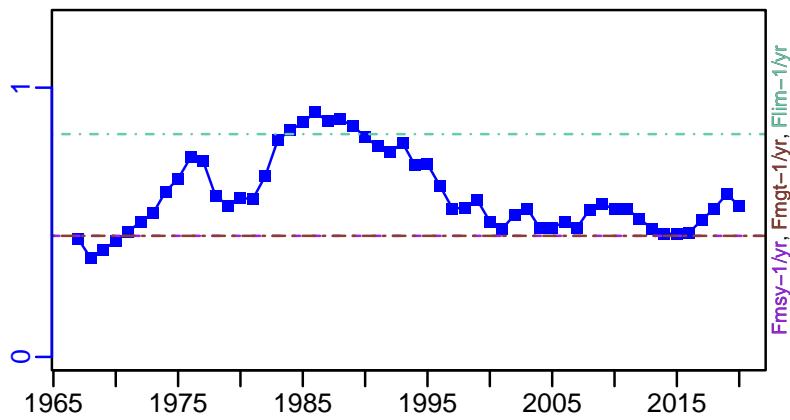
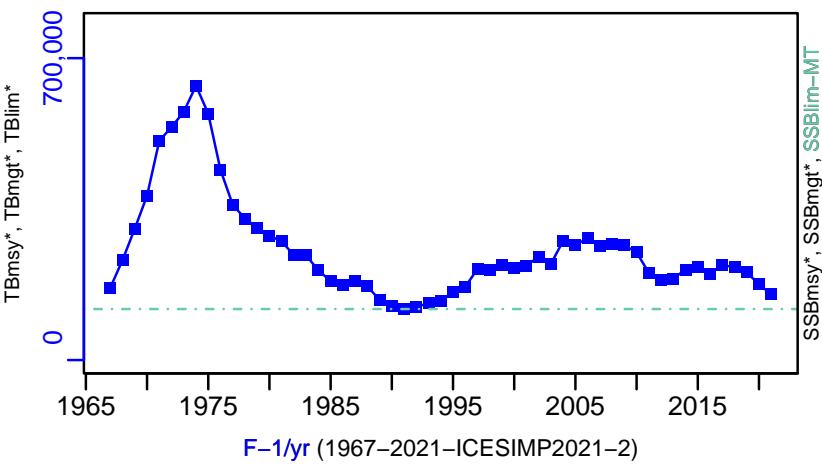
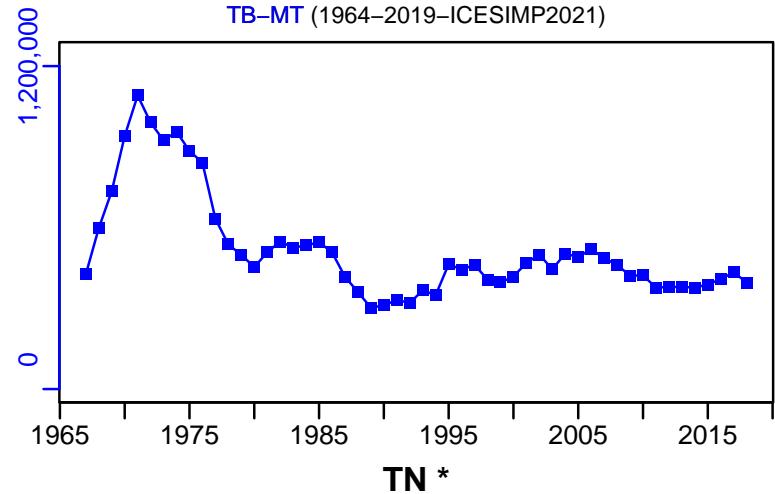


◆ Start Year ◆ End Year * No Data

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

TB-MT (1964–2019–ICESIMP2021)

SSB-MT (1967–2021–ICESIMP2021-2)

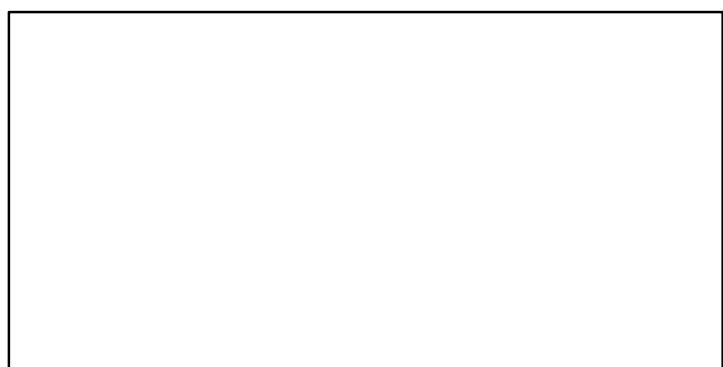
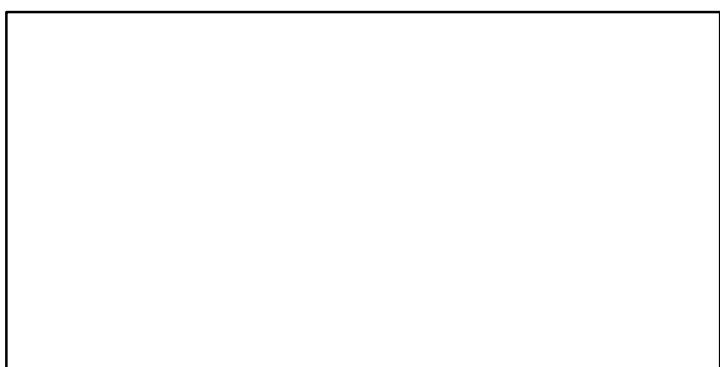
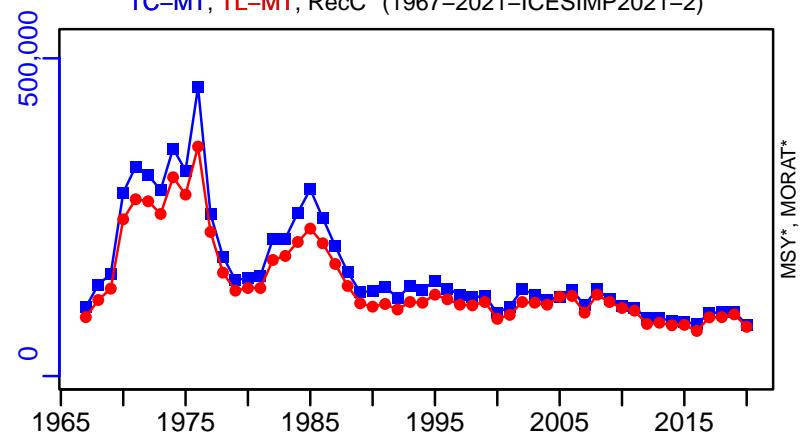


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

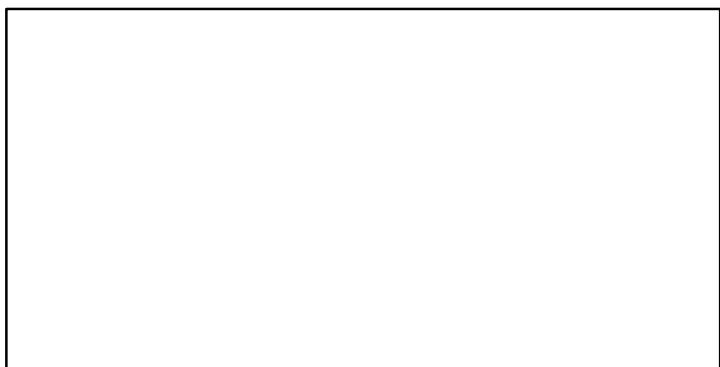
Saithe ICES 3a-4-6 [POLLNS-VI-IIla]

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

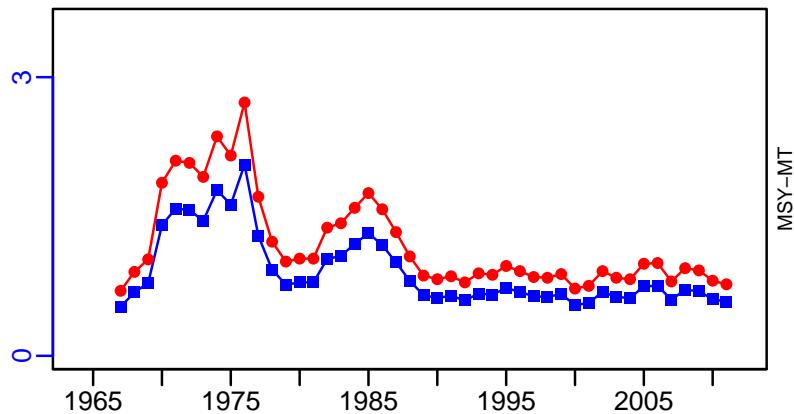
TAC*, Cpair*, Cadv*



EFFORT*



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



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

Porbeagle shark Northeast Atlantic [PORSHARNEATL]

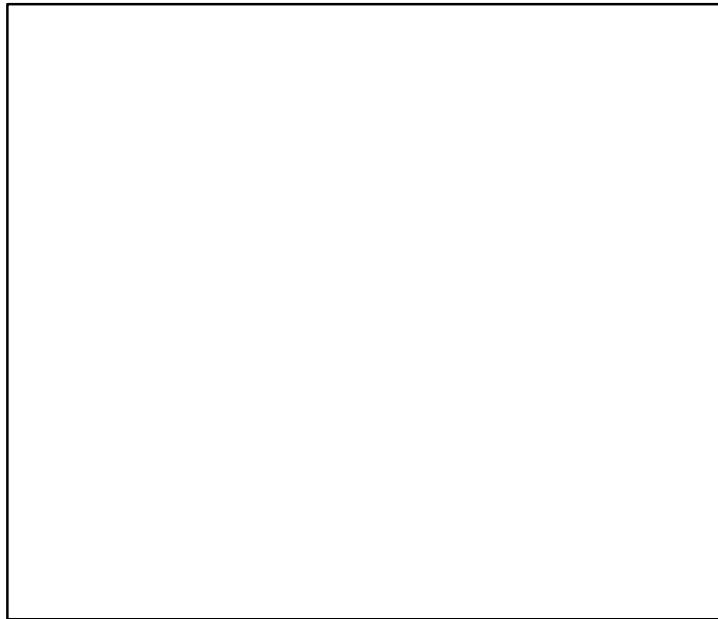
Metadata	
Scientific Name	Lamna nasus
Current Assess ID	WGEF-PORSHARNEATL-1926-2018-ICESIMP2021
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2018

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

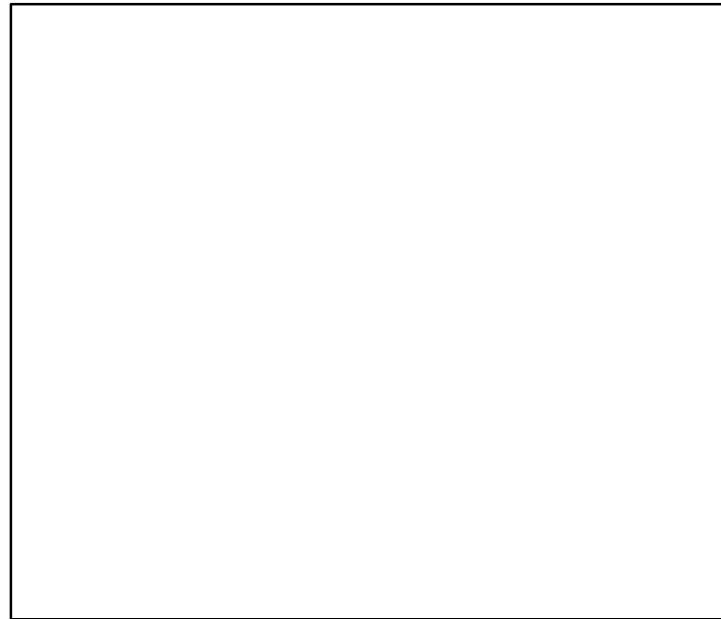
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	7		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Porbeagle shark Northeast Atlantic [PORSHARNEATL]

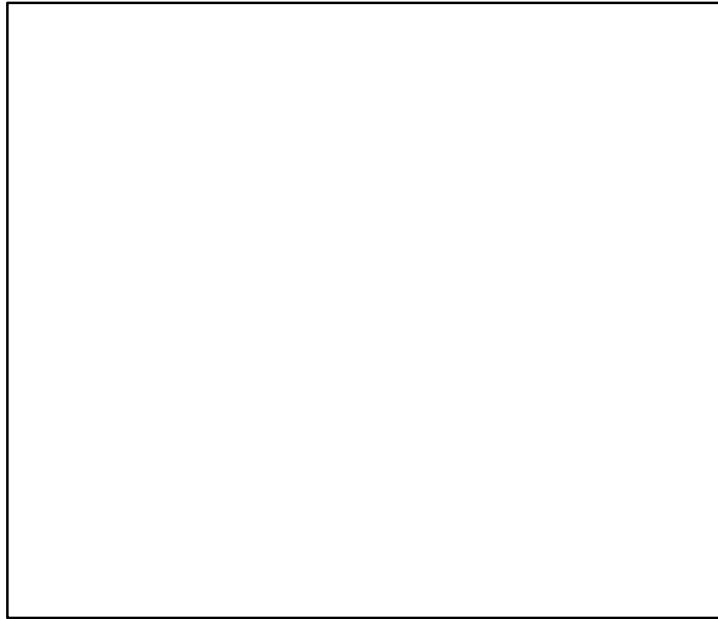
Kobe MSY*



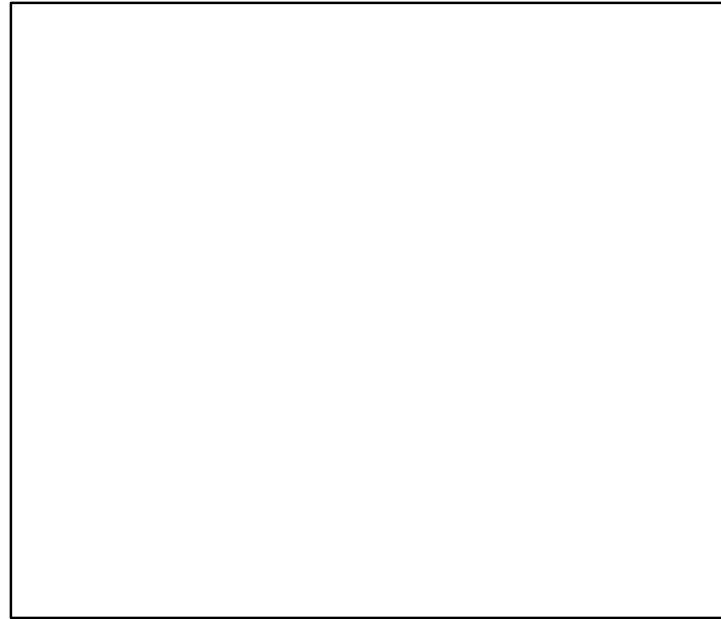
Kobe MGT*



Spawner Recruit*



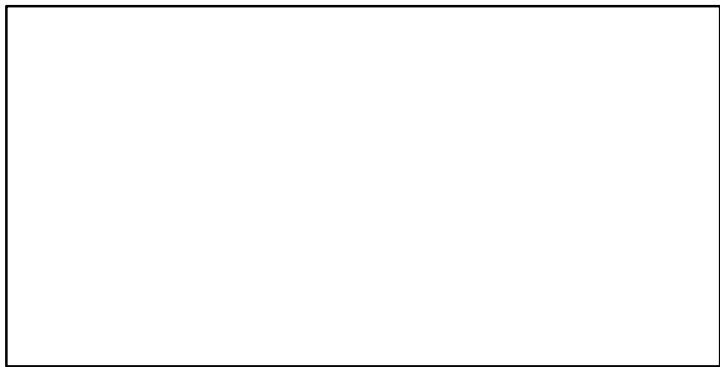
Production*



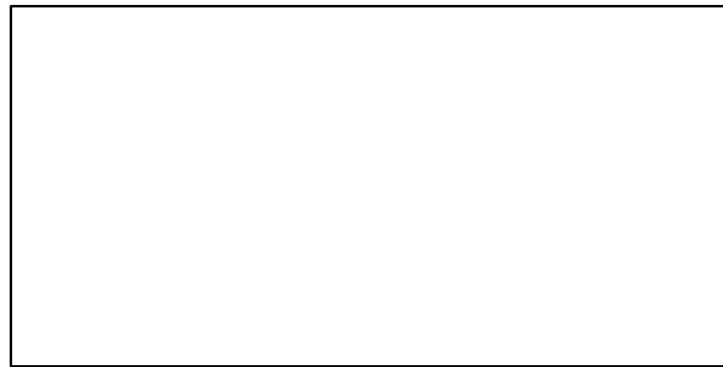
◆ Start Year ◆ End Year * No Data

Porbeagle shark Northeast Atlantic [PORSHARNEATL]

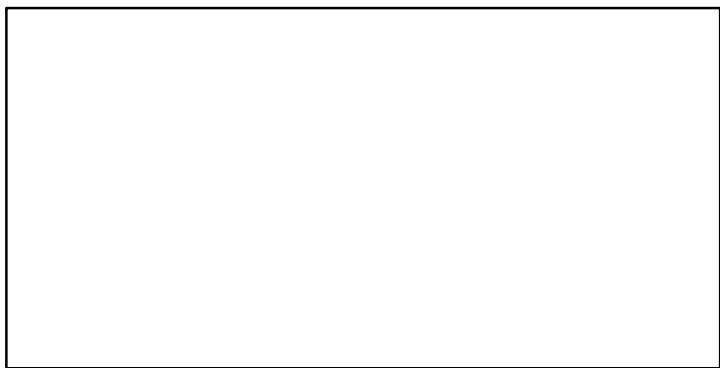
TB*



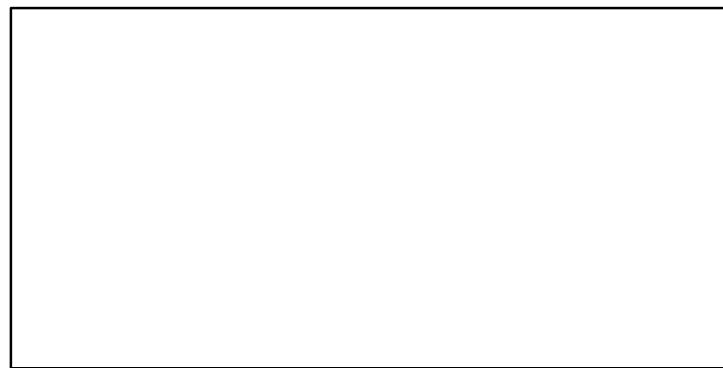
SSB*



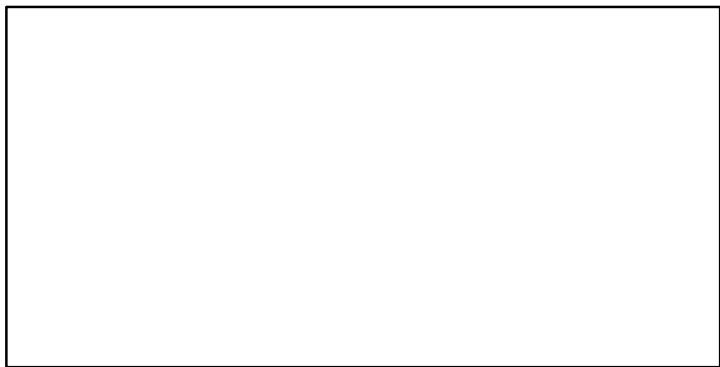
TN *



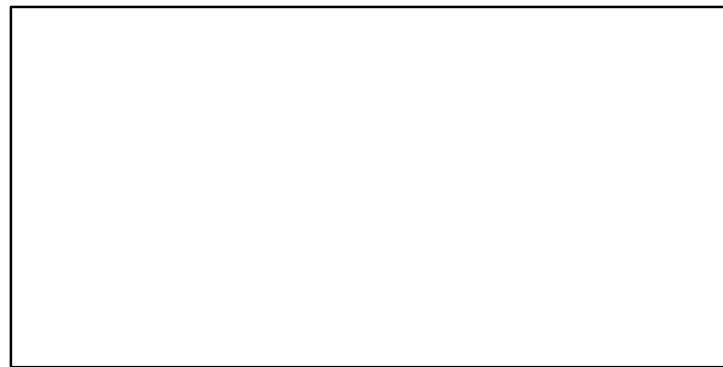
F*



ER*



Recruits*

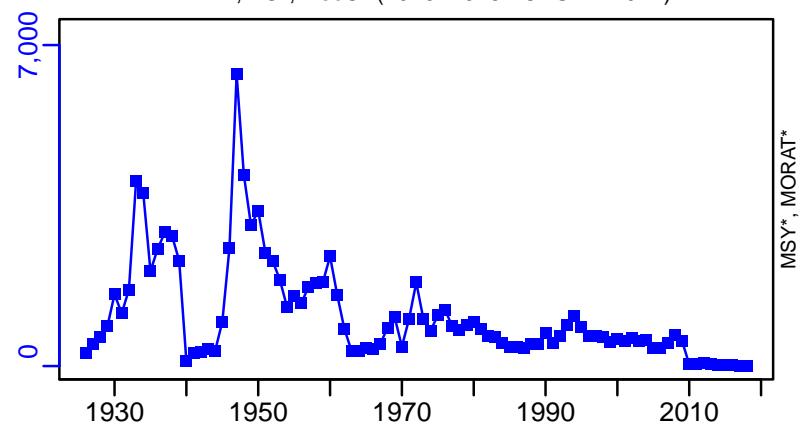


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

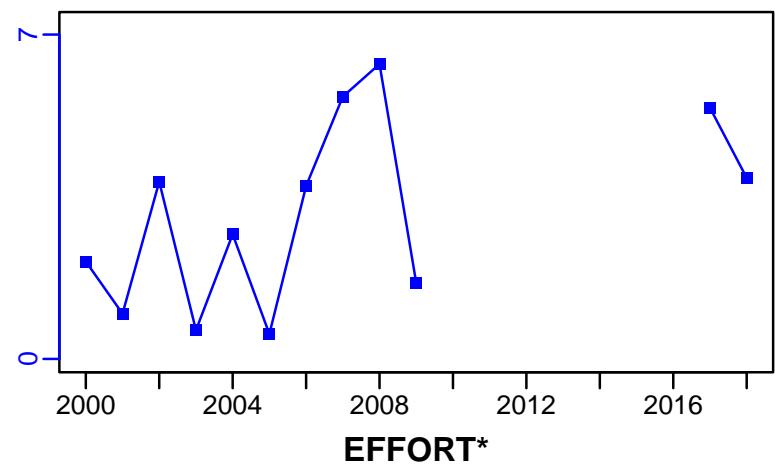
Porbeagle shark Northeast Atlantic [PORSHARNEATL]

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

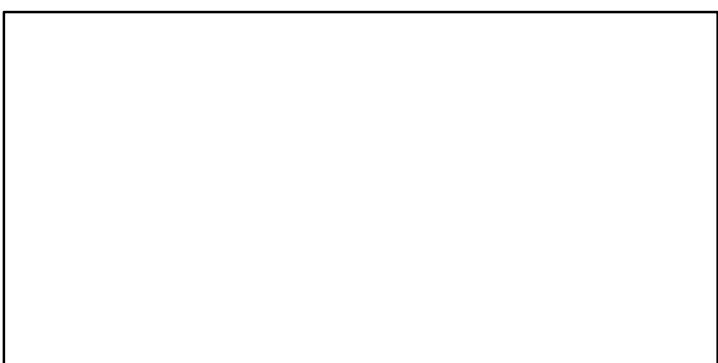
TAC*, Cpair*, Cadv*



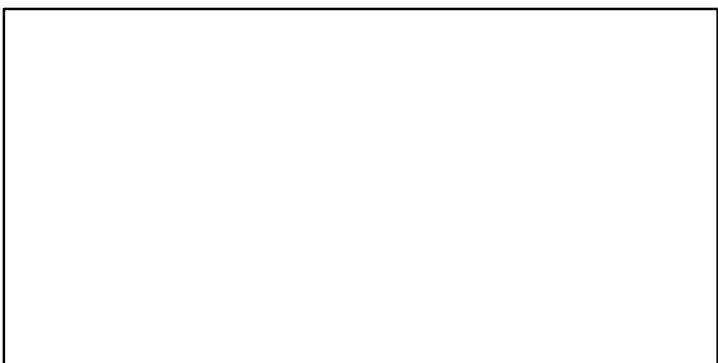
survB-index (1926–2018–ICESIMP2021)



CPUE*



CdivMSY*



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

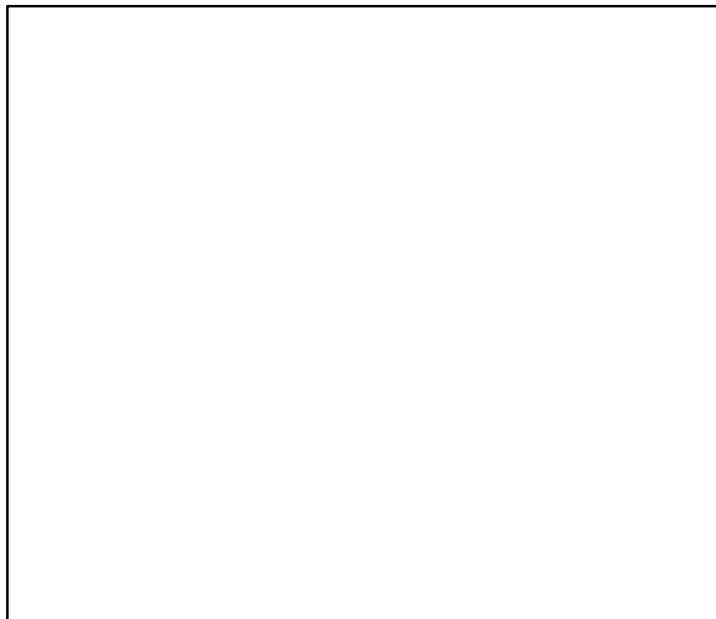
Red seabream ICES 9 [RBRMIX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMIX-1988-2019-ICESIMP2021-2
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, 2019

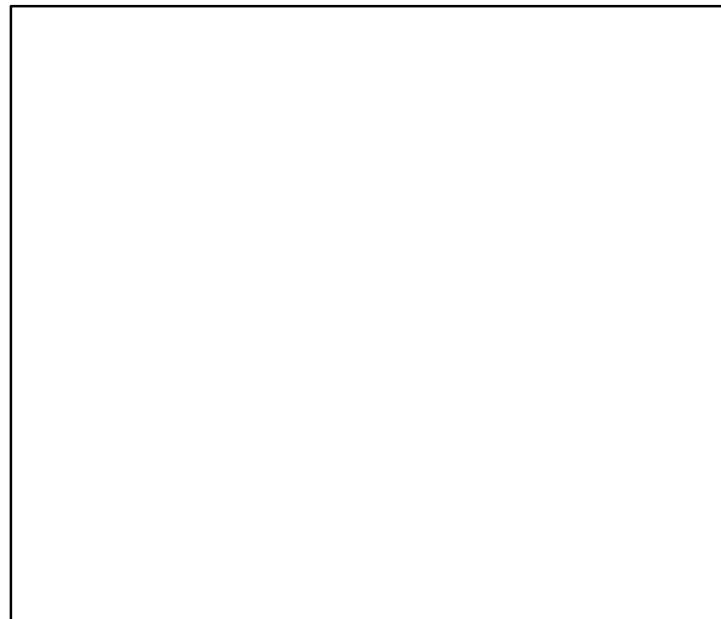
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	295		
TL	TL-MT	2019	60		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

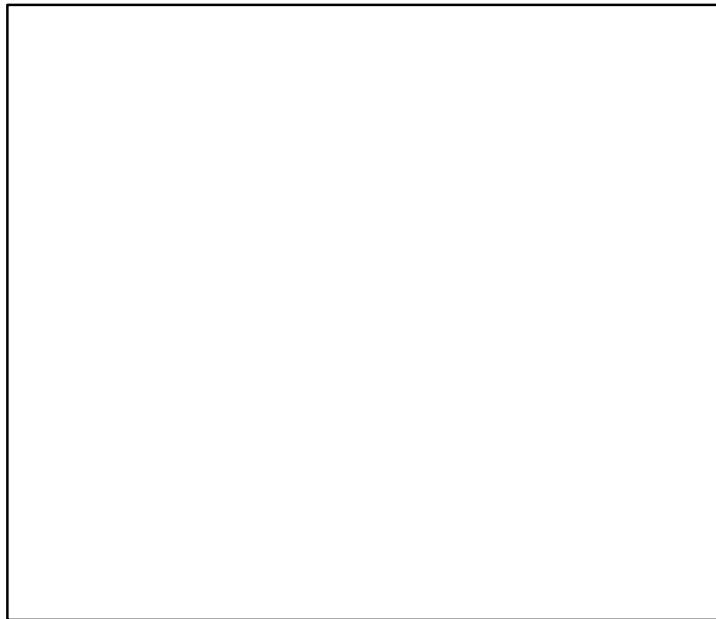
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Red seabream ICES 9 [RBRMIX]

TB*



SSB*



TN *



F*



ER*



Recruits*

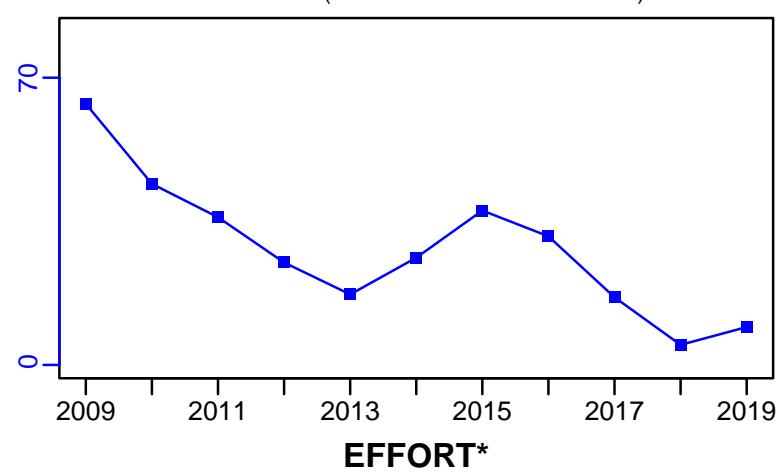
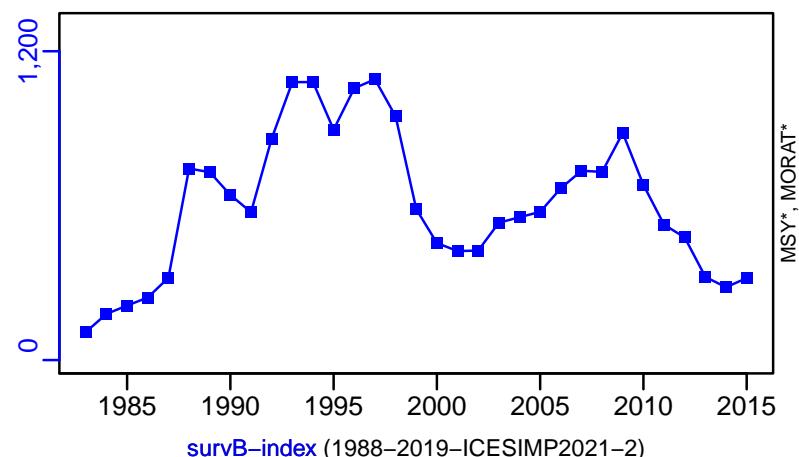


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Red seabream ICES 9 [RBRMIX]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

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

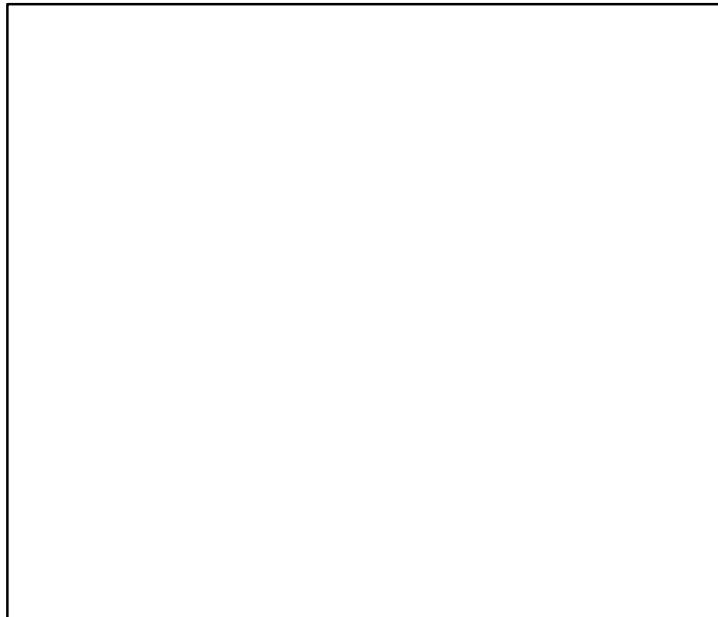
Red seabream ICES 6-7-8 [RBRMVI-VII-VIII]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMVI-VII-VIII-1948-2019-ICESIMP2021-2
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, 2019

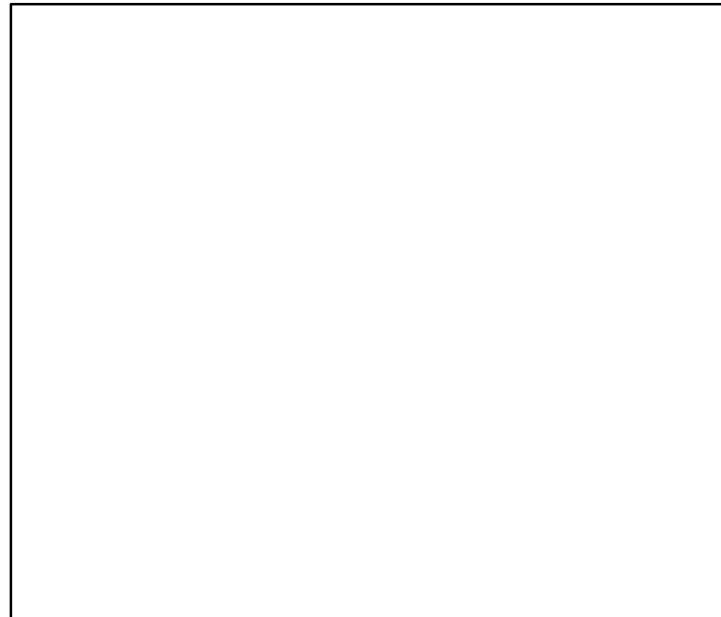
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	98		
TL	TL-MT	2019	98		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



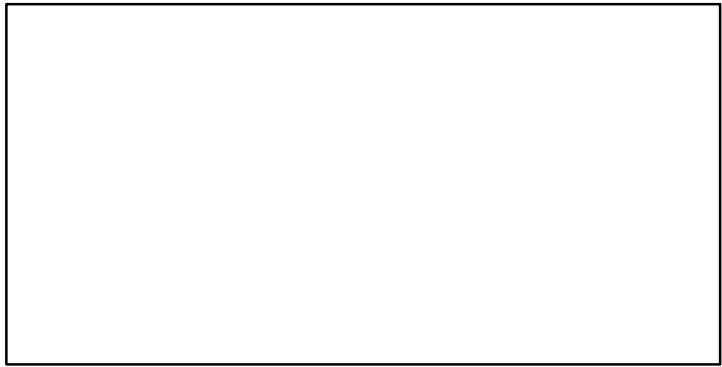
Production*



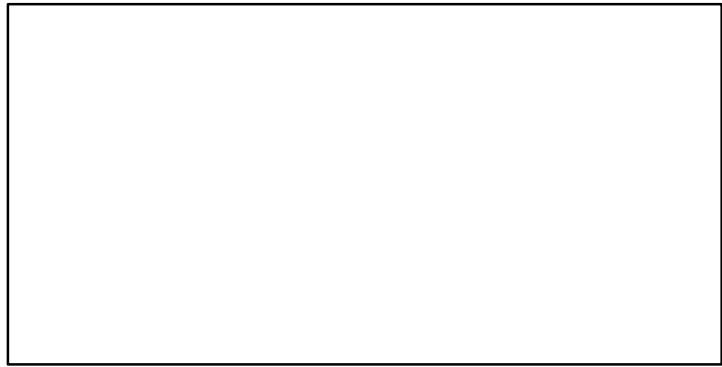
◆ Start Year ♦ End Year * No Data

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

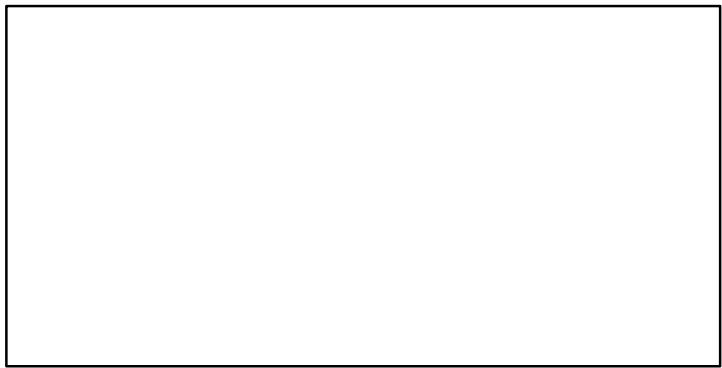
TB*



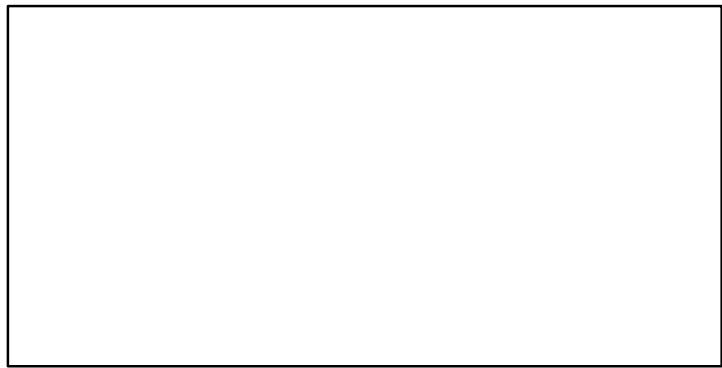
SSB*



TN *



F*



ER*



Recruits*

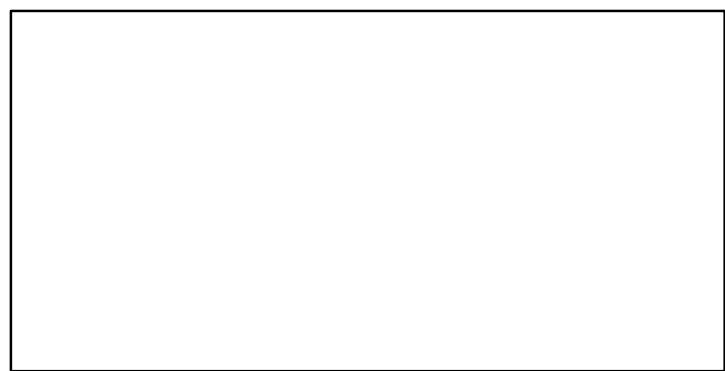
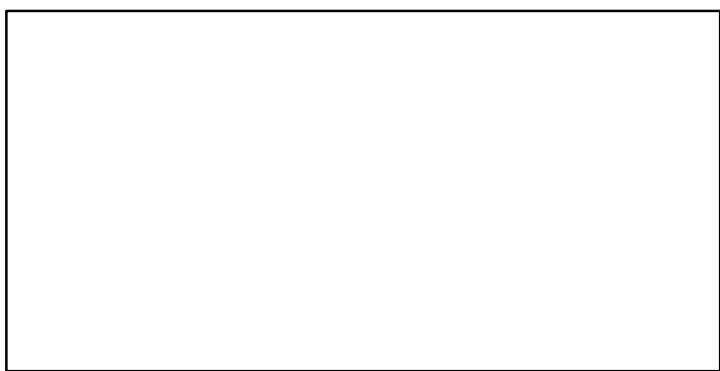
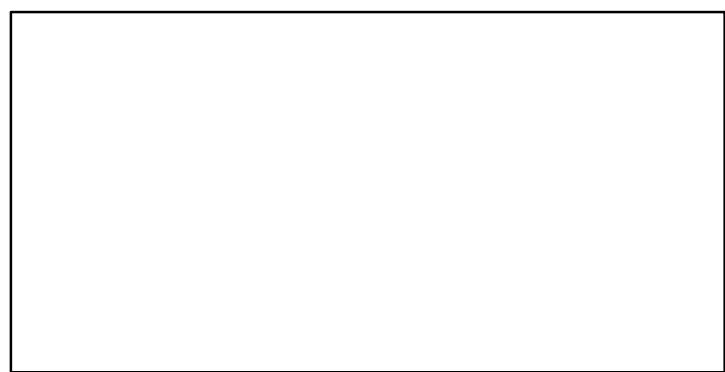
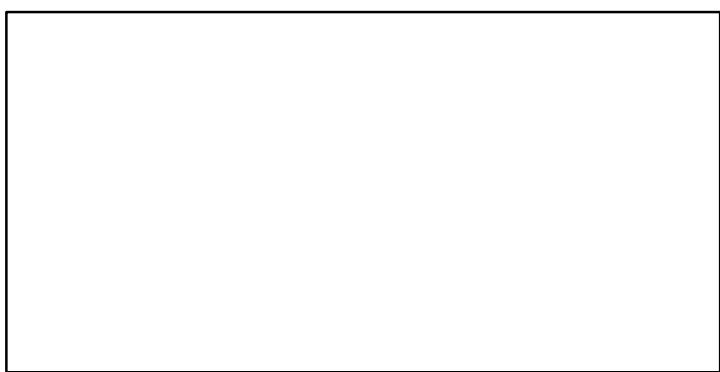
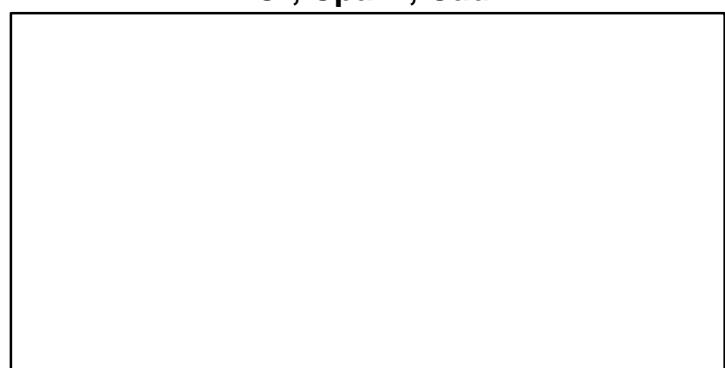
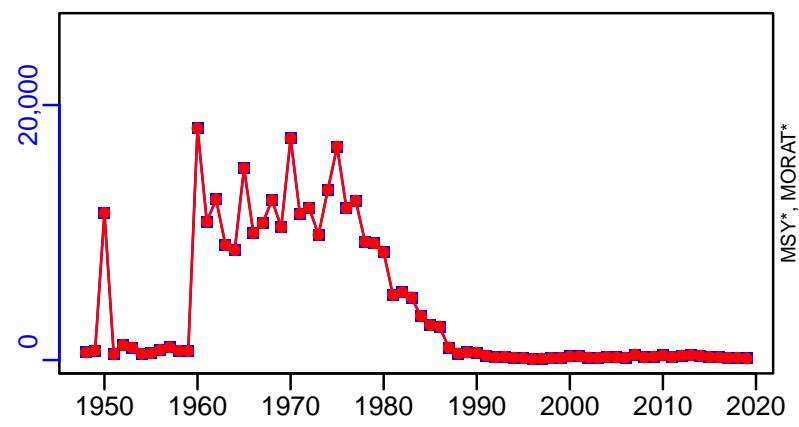


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

TC–MT, TL–MT, RecC* (1948–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



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

Red seabream Azores Grounds [RBRMX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMX-1980-2020-ICESIMP2021-2
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, 2019, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	445		
TL	TL-MT	2020	491		
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*

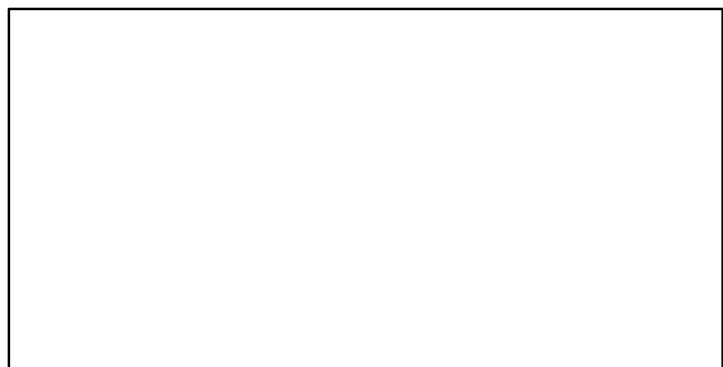
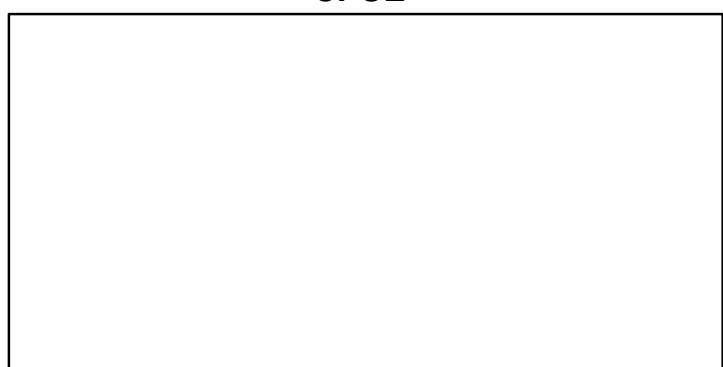
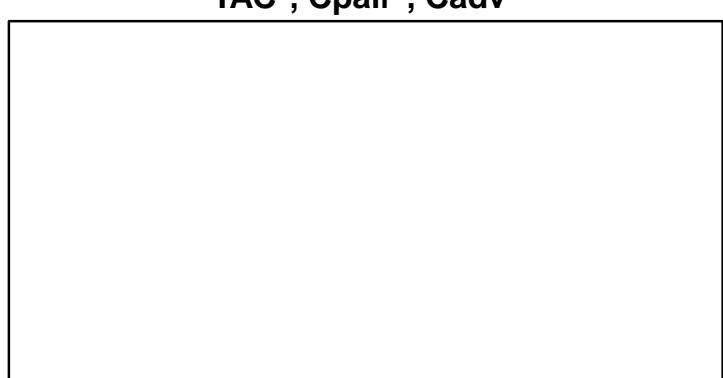
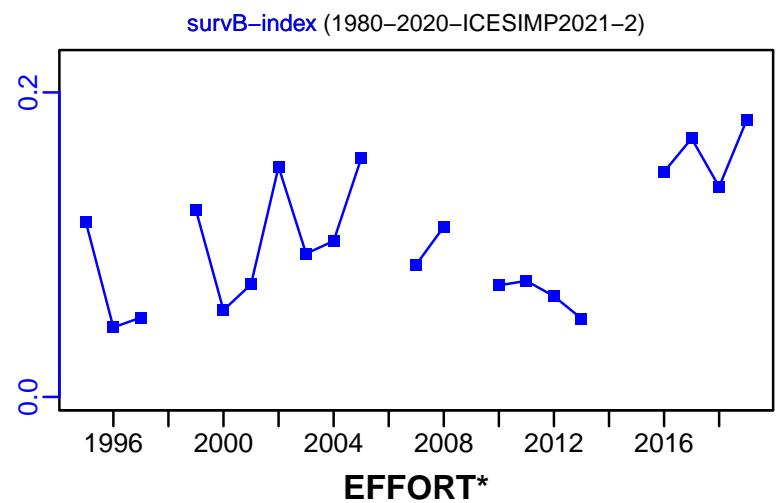
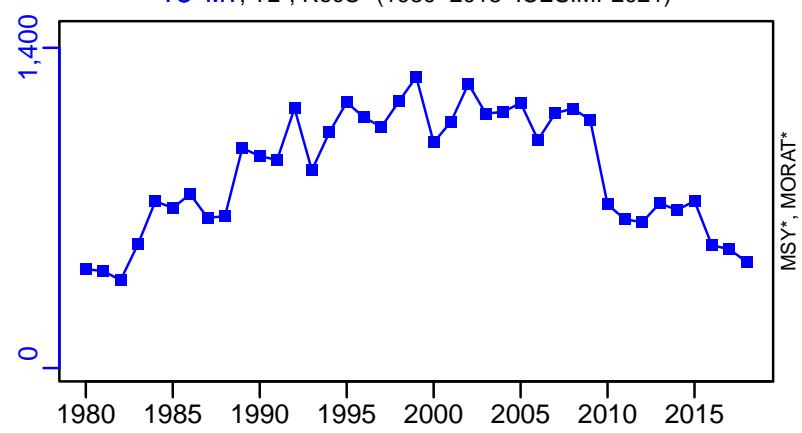


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Red seabream Azores Grounds [RBRMX]

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

TAC*, Cpair*, Cadv*



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

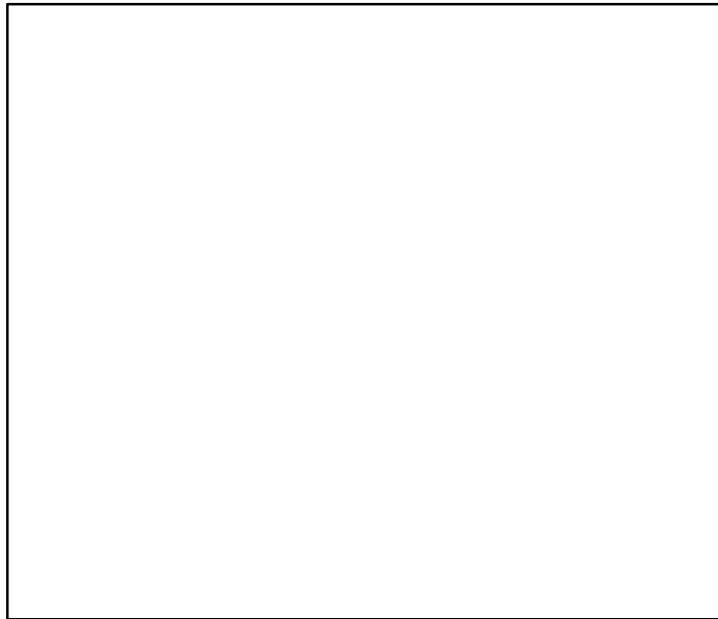
Beaked redfish Southeast Greenland [REDDEEPXIVb]

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

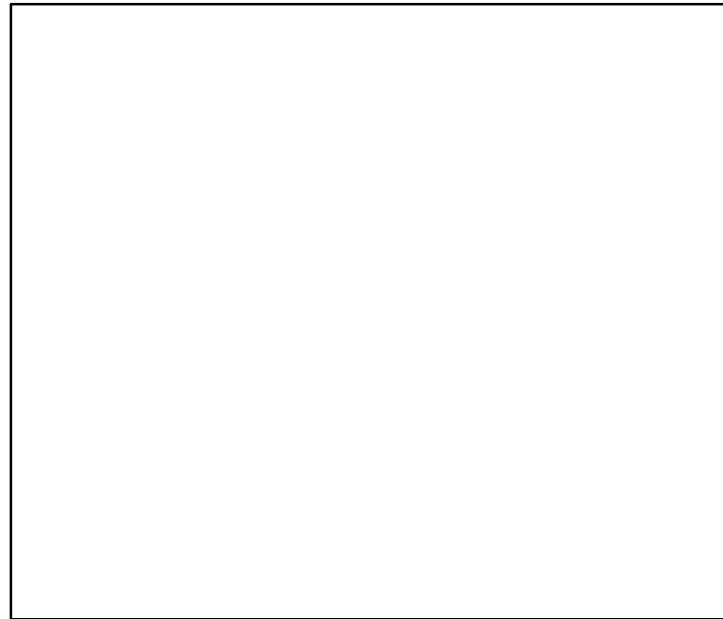
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

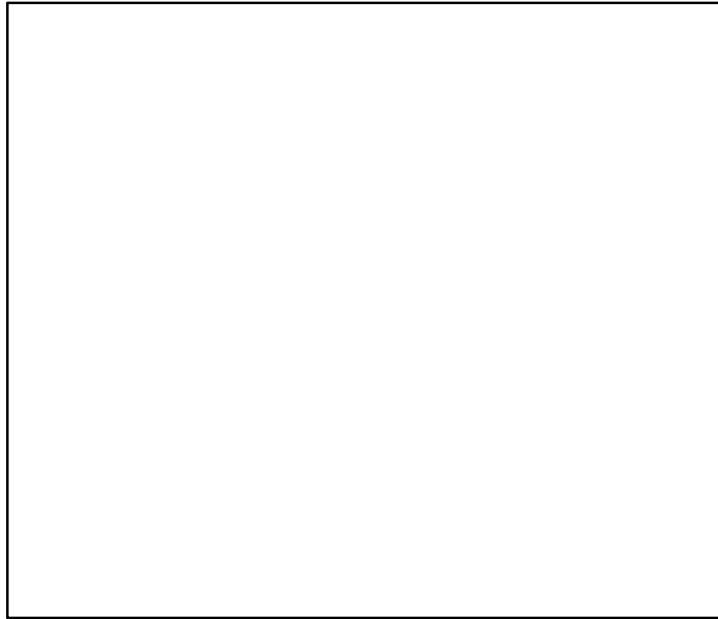
Kobe MSY*



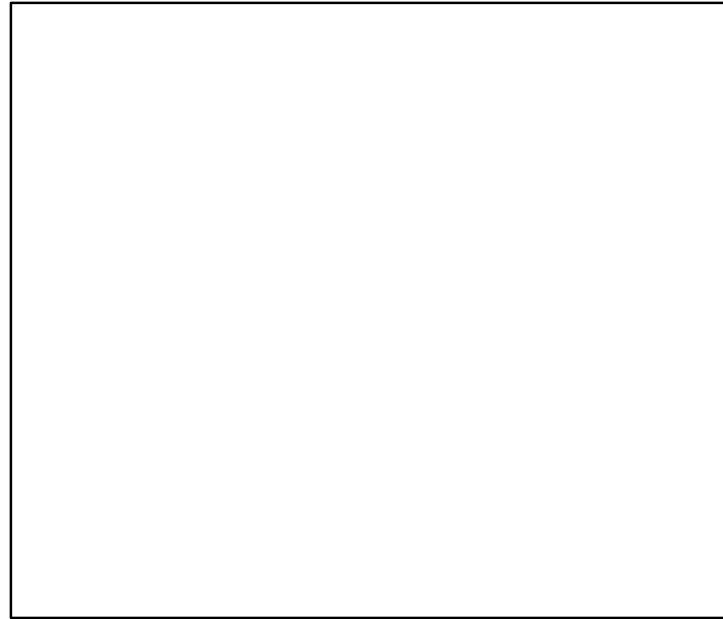
Kobe MGT*



Spawner Recruit*



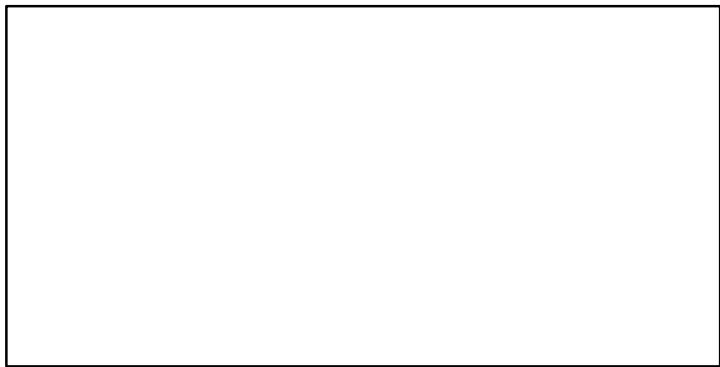
Production*



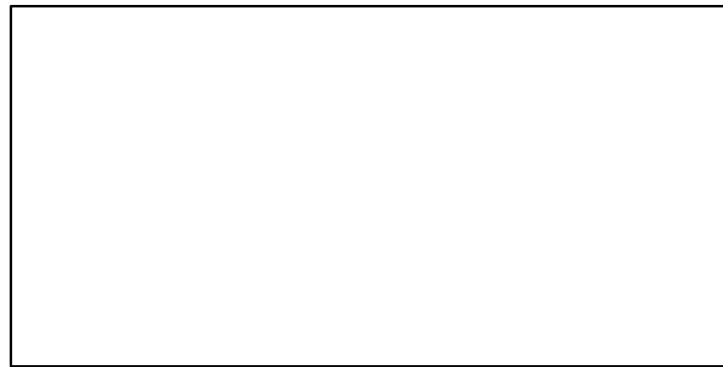
◆ Start Year ♦ End Year * No Data

Beaked redfish Southeast Greenland [REDDEEPXIVb]

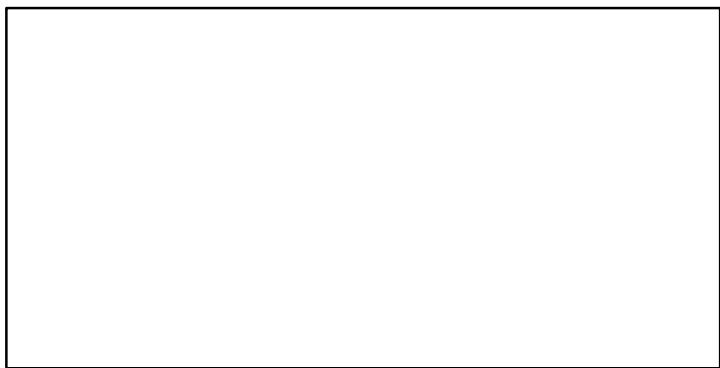
TB*



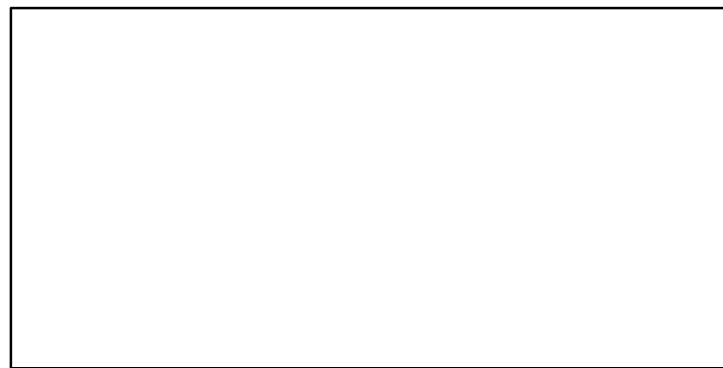
SSB*



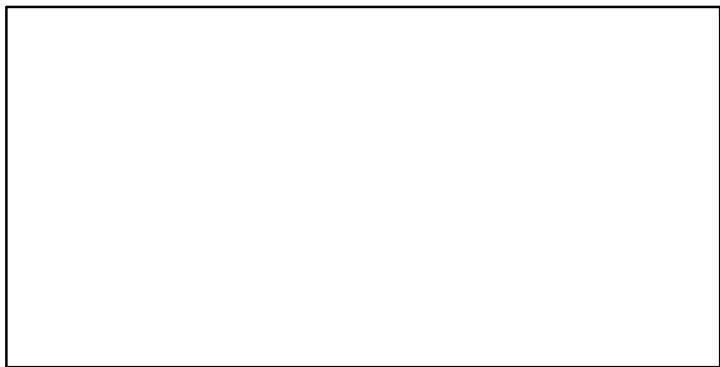
TN *



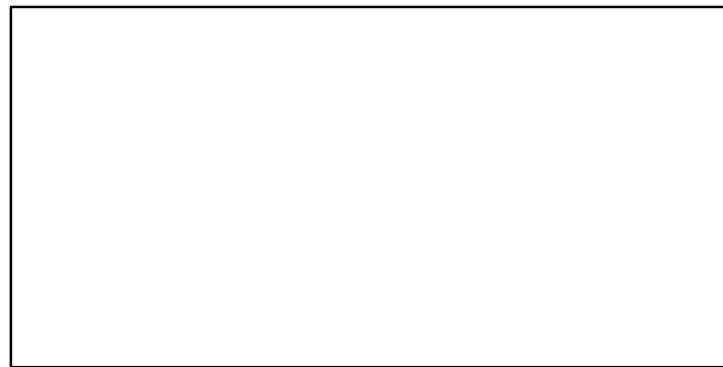
F*



ER*



Recruits*

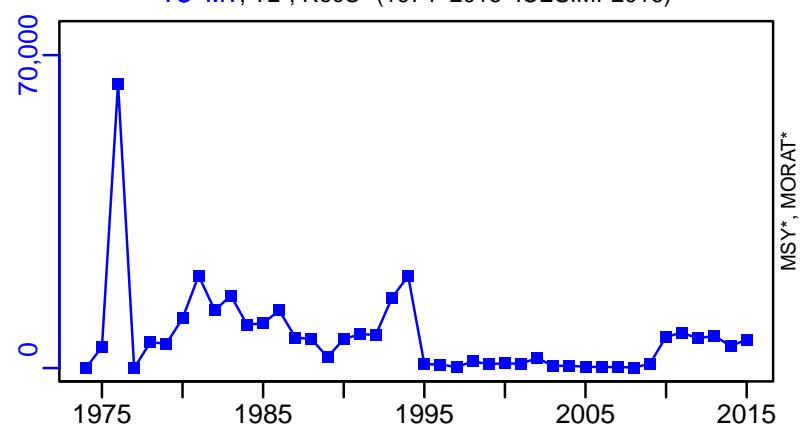


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

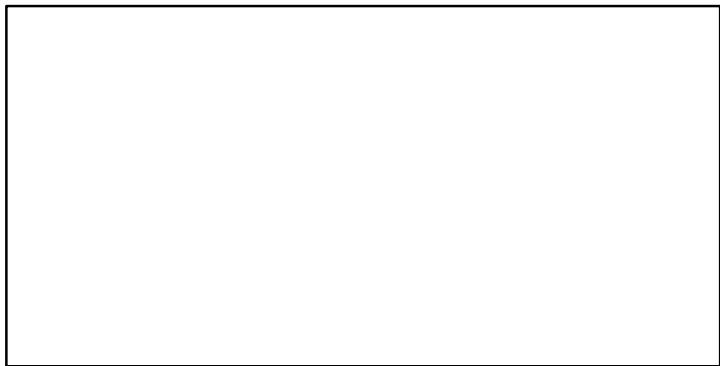
Beaked redfish Southeast Greenland [REDDEEPXIVb]

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

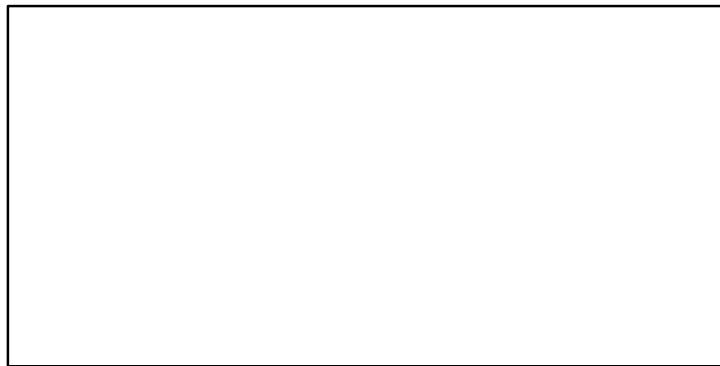
TAC*, Cpair*, Cadv*



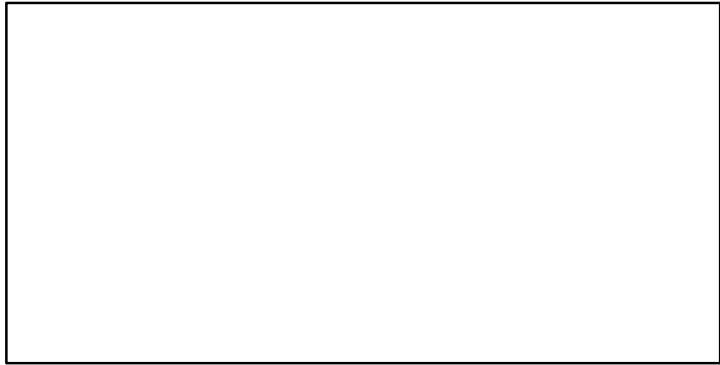
survB*



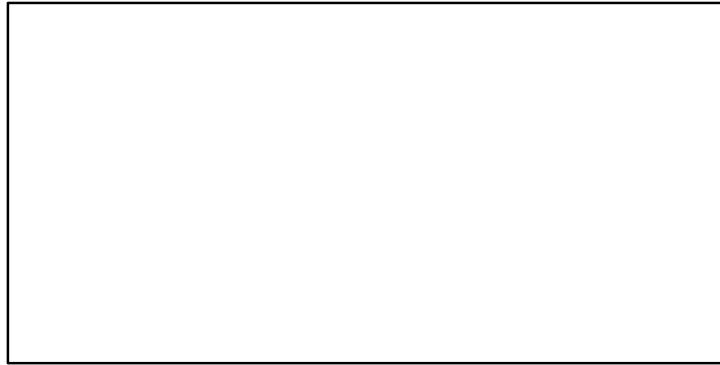
CPUE*



EFFORT*



CdivMSY*



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

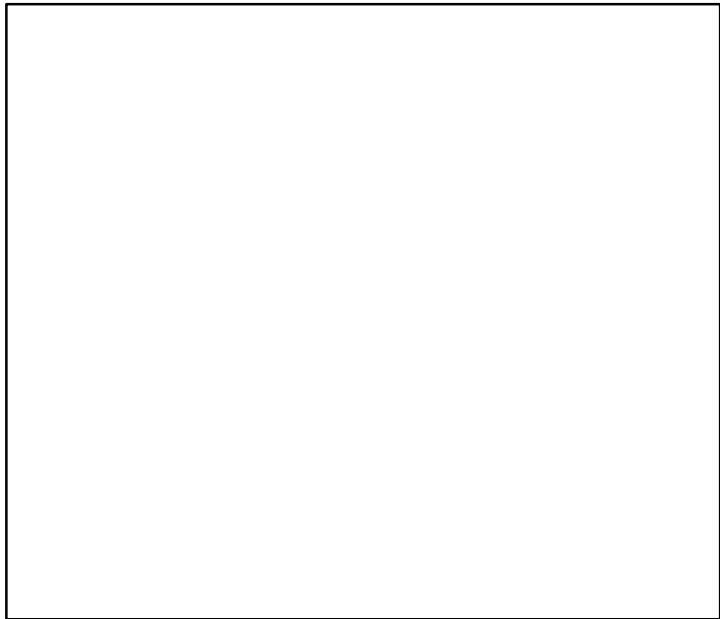
Red gurnard Northeast Atlantic [RGURNNEATL]

Metadata	
Scientific Name	Chelidonichthys cuculus
Current Assess ID	WGWISE-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

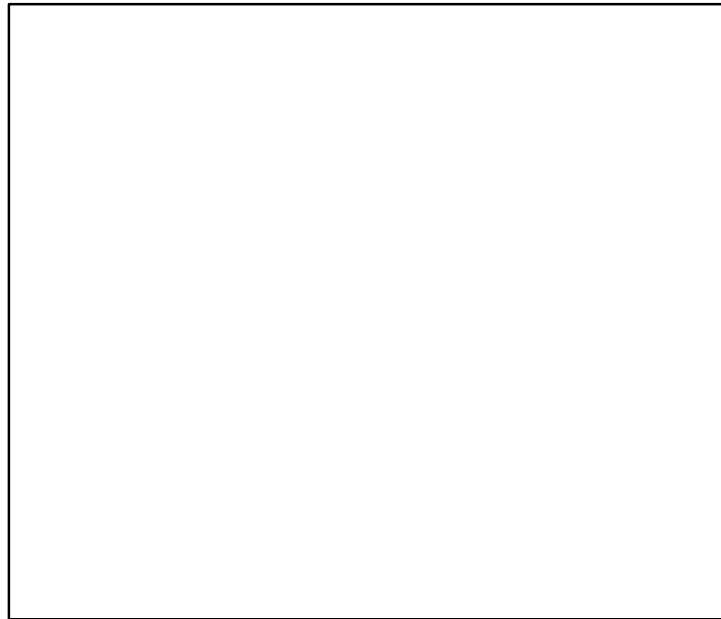
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

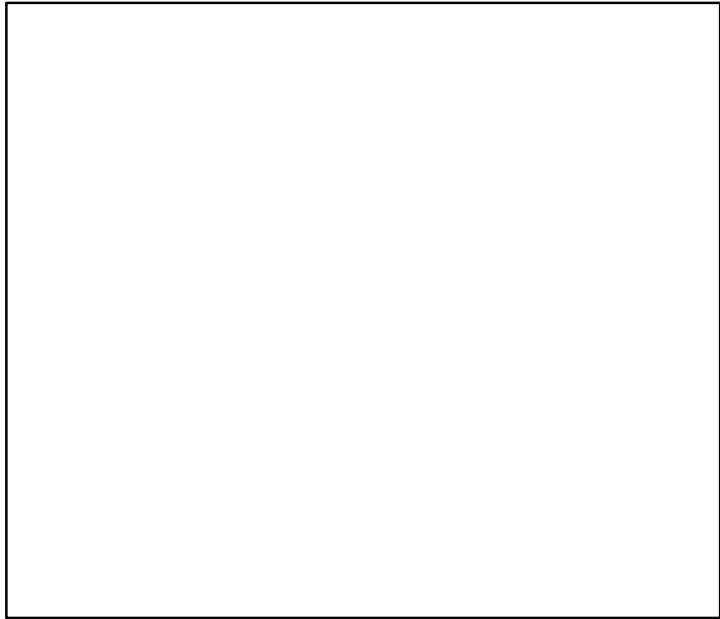
Kobe MSY*



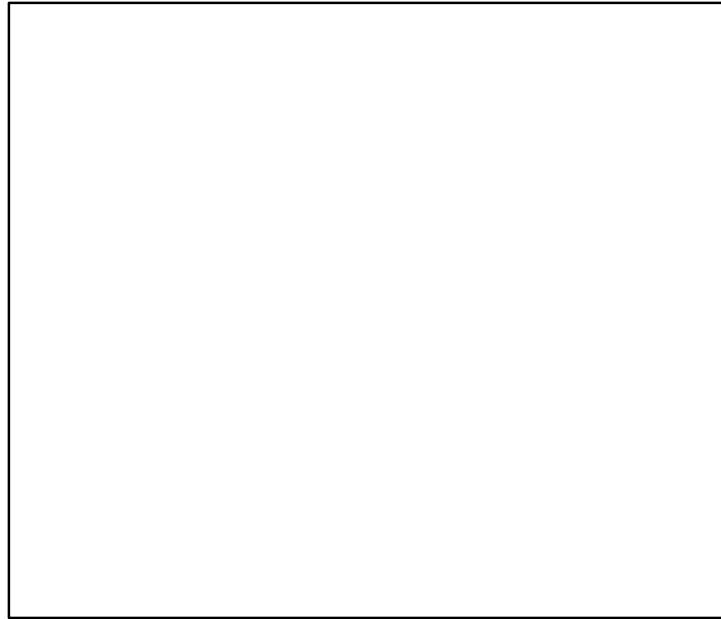
Kobe MGT*



Spawner Recruit*



Production*



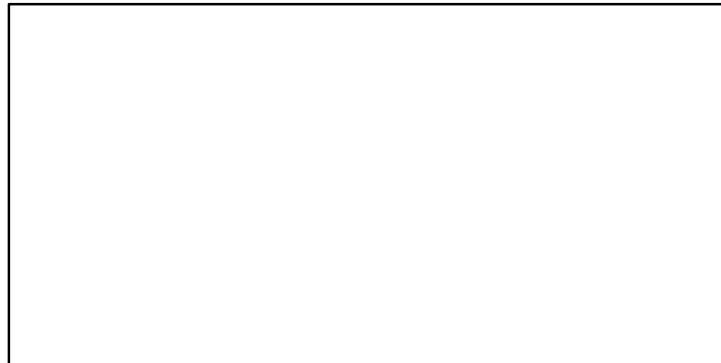
◆ Start Year ♦ End Year * No Data

Red gurnard Northeast Atlantic [RGURNNEATL]

TB*



SSB*



TN *



F*



ER*



Recruits*

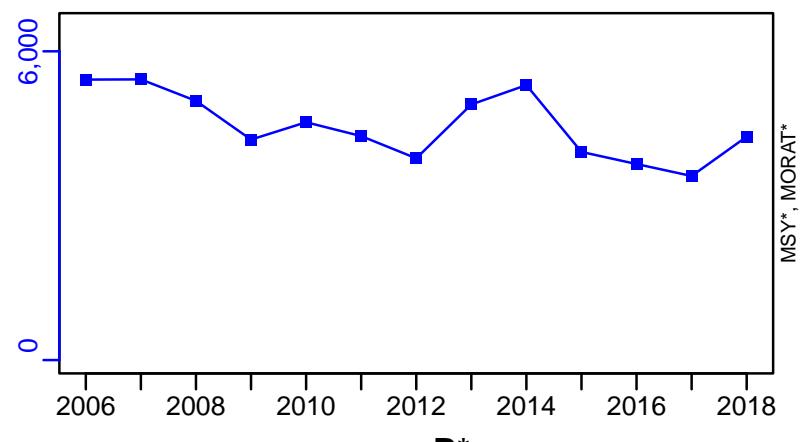


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Red gurnard Northeast Atlantic [RGURNNEATL]

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

TAC*, Cpair*, Cadv*



survB*

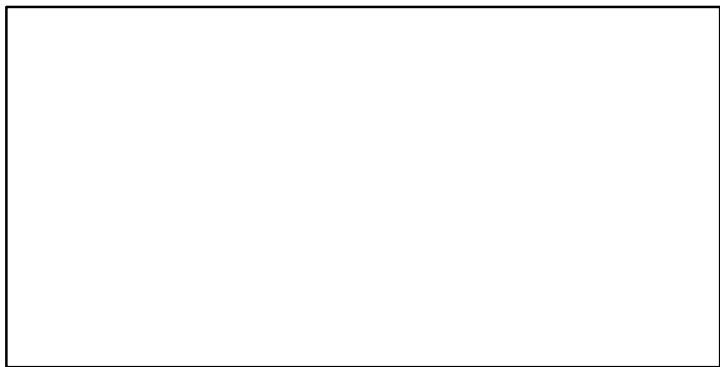
MSY*, MORAT*



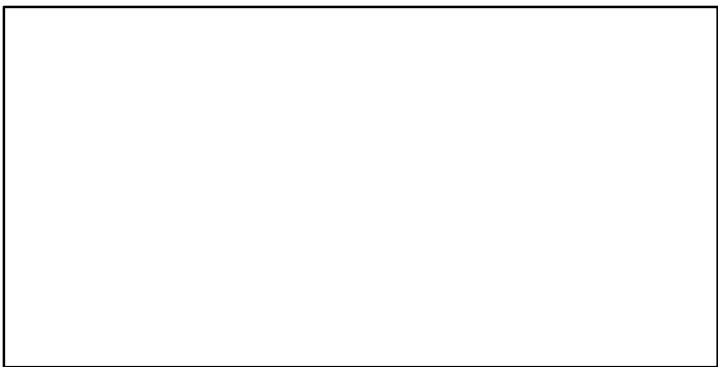
CPUE*



EFFORT*



CdivMSY*



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

Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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

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

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

Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

TB*



SSB*



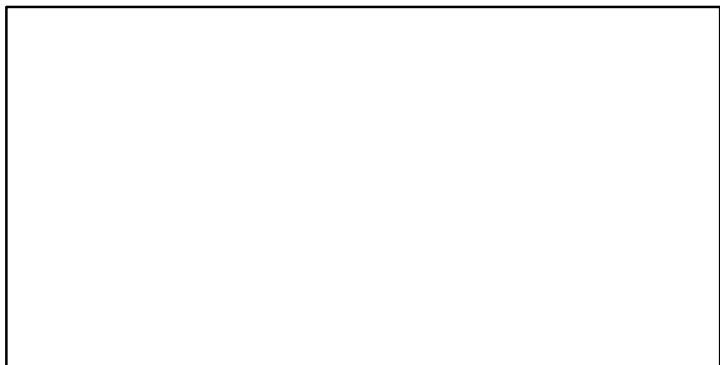
TN *



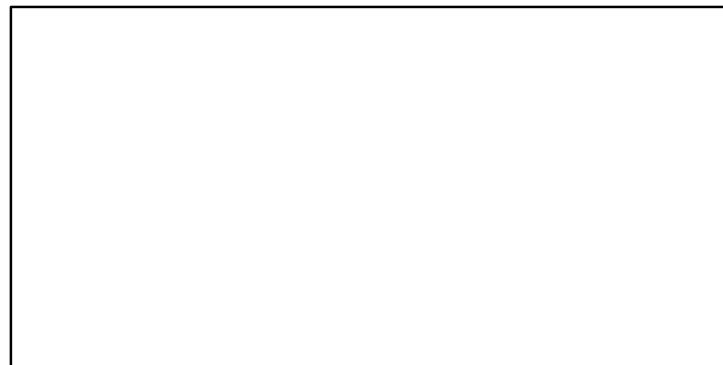
F*



ER*



Recruits*

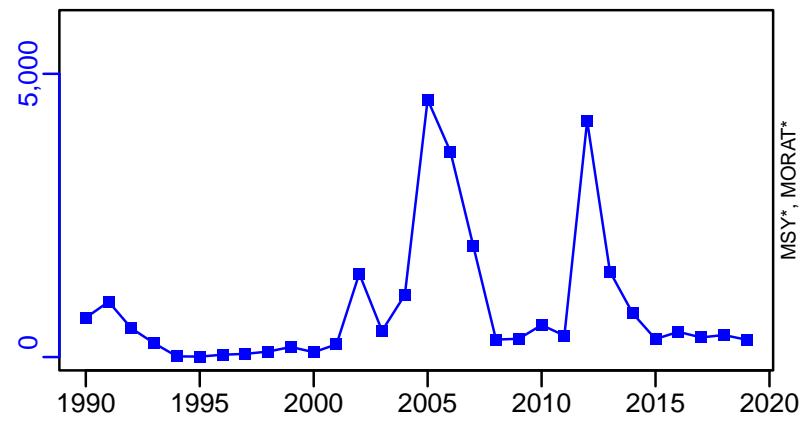


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

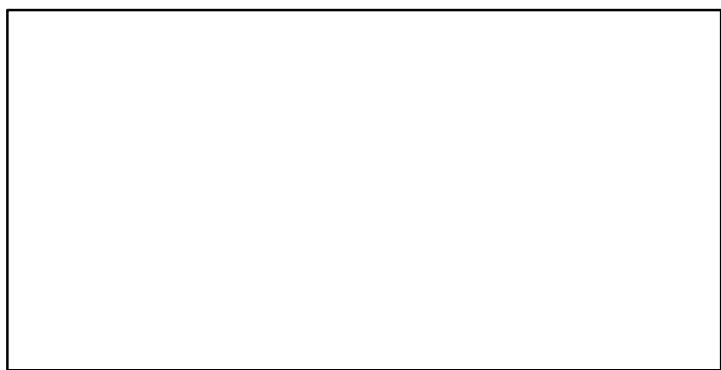
TL-MT, TC*, RecC* (1990–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*



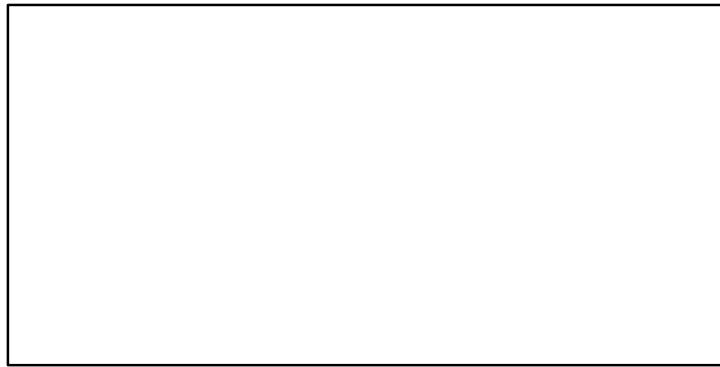
CPUE*



EFFORT*



CdivMSY*



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

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*



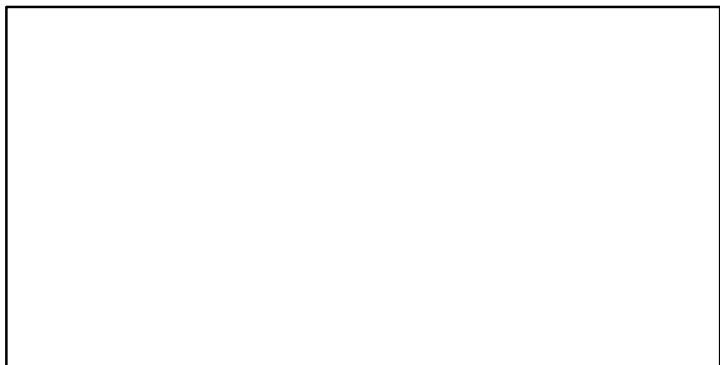
TN *



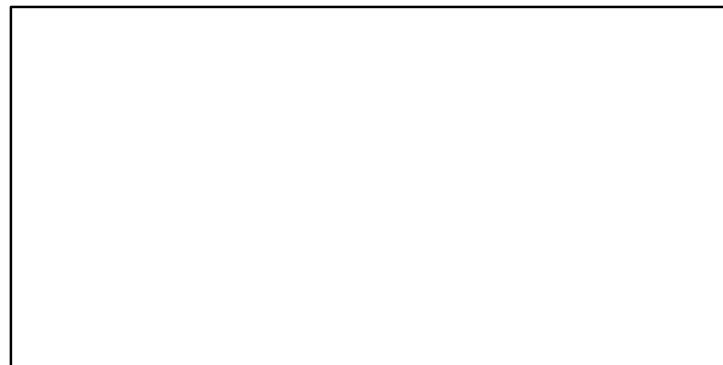
F*



ER*



Recruits*

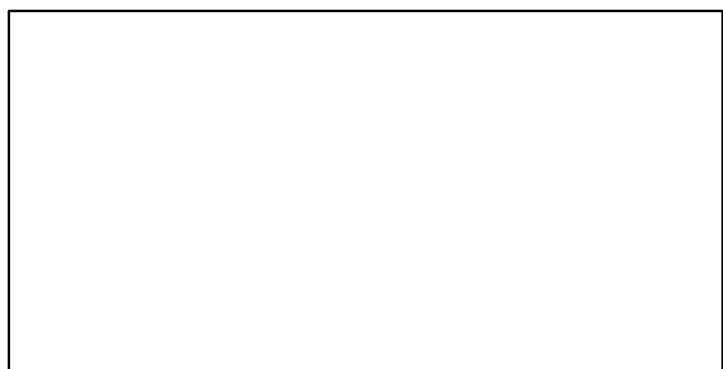
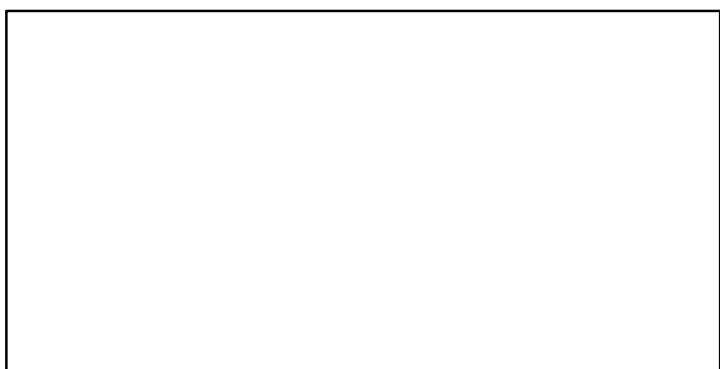
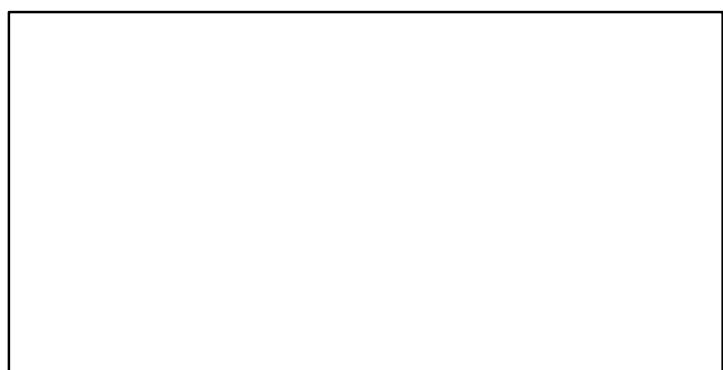
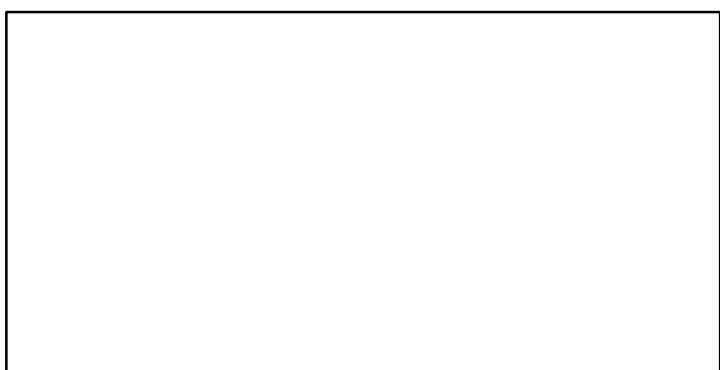
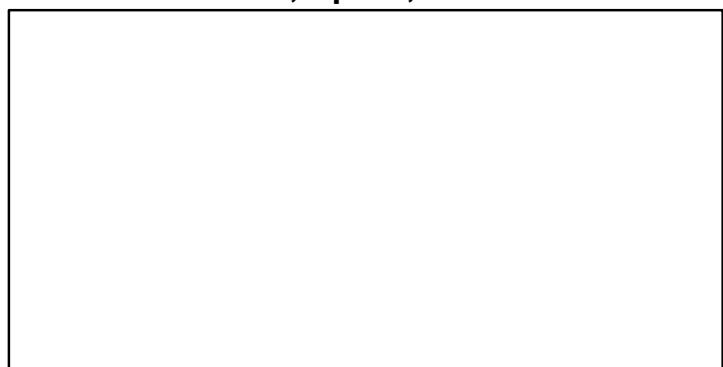
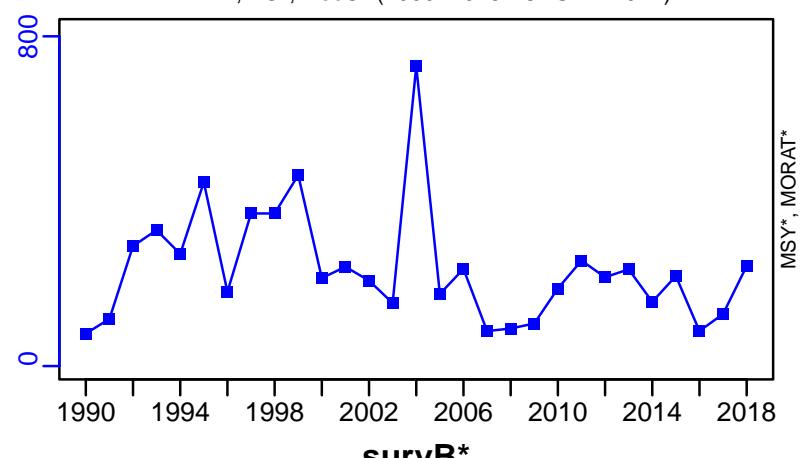


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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*



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

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*

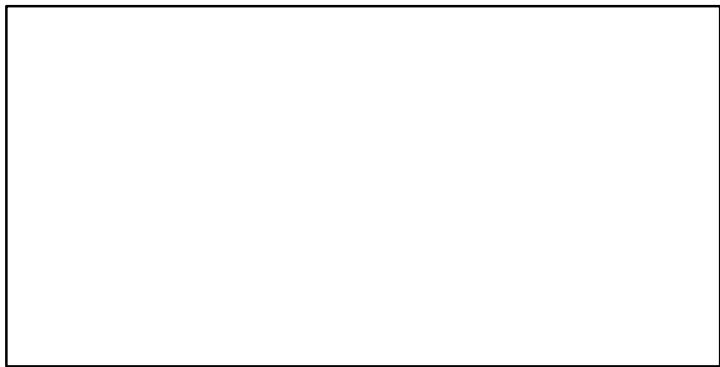
Spawner Recruit*

Production*

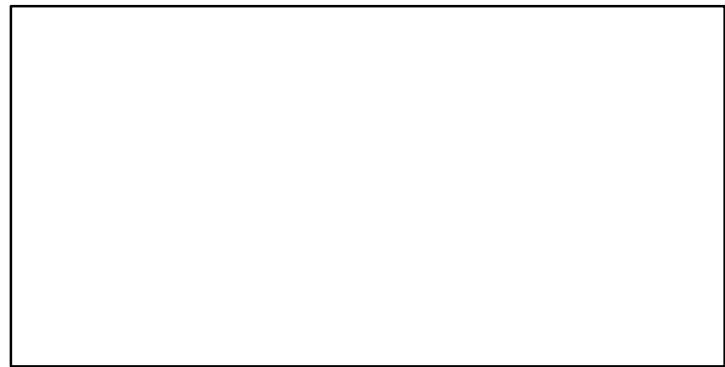
◆ Start Year ♦ End Year * No Data

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

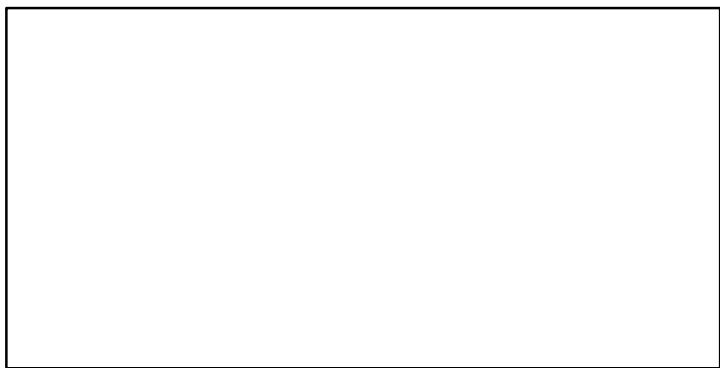
TB*



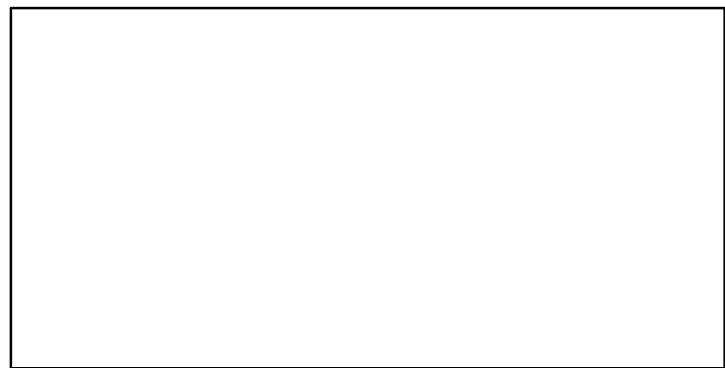
SSB*



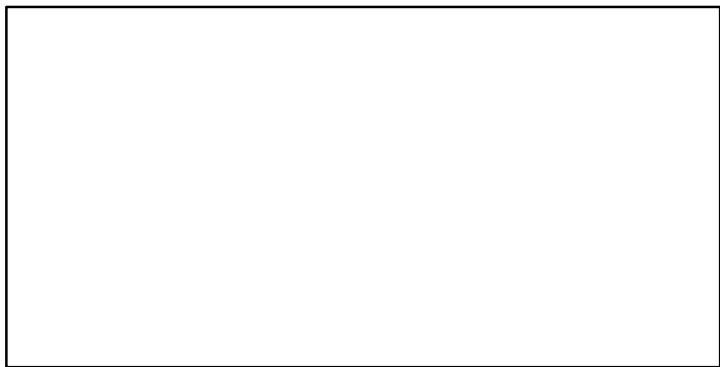
TN *



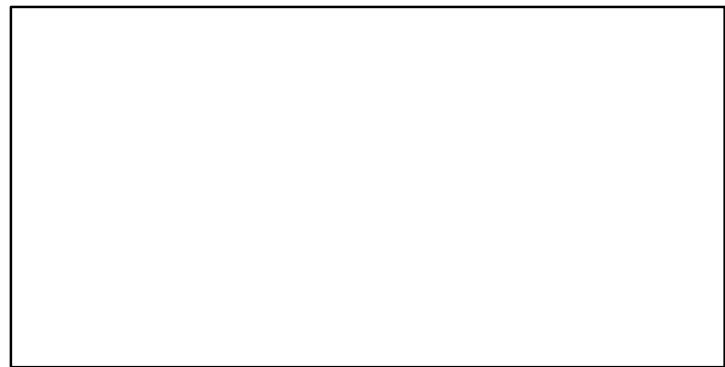
F*



ER*



Recruits*

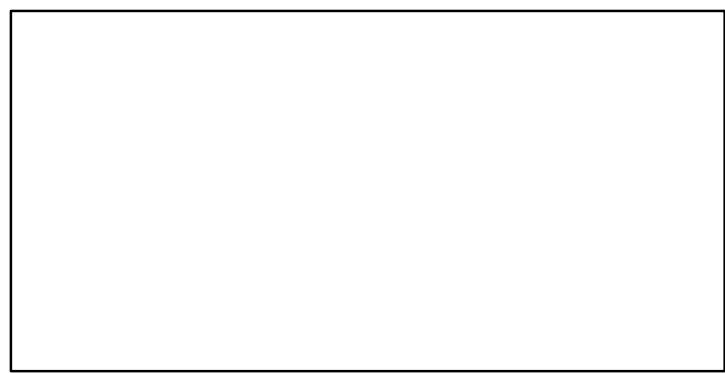
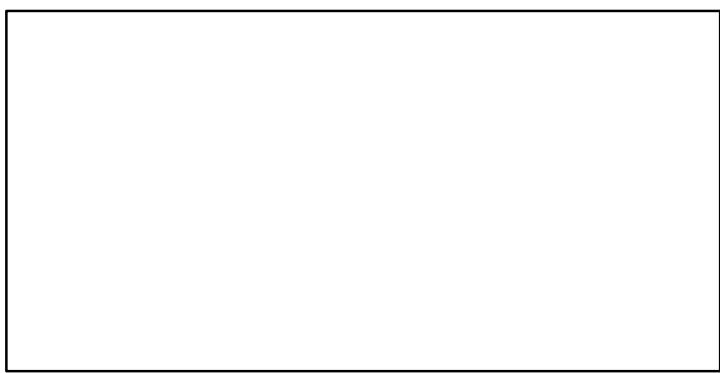
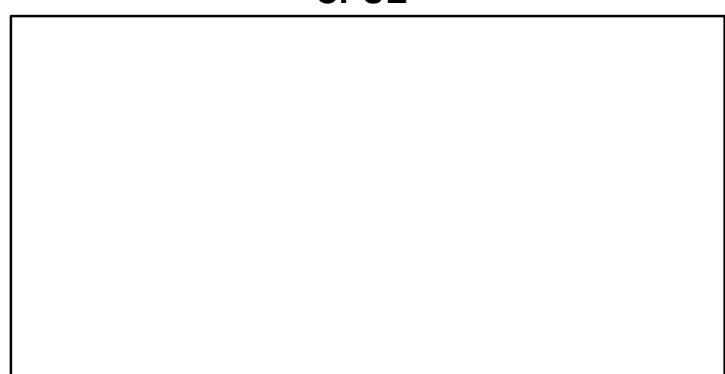
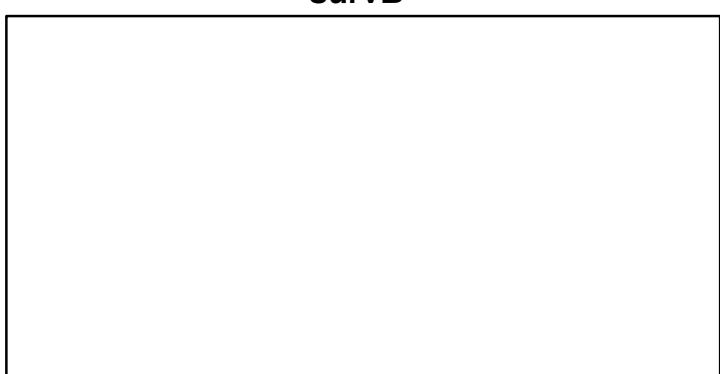
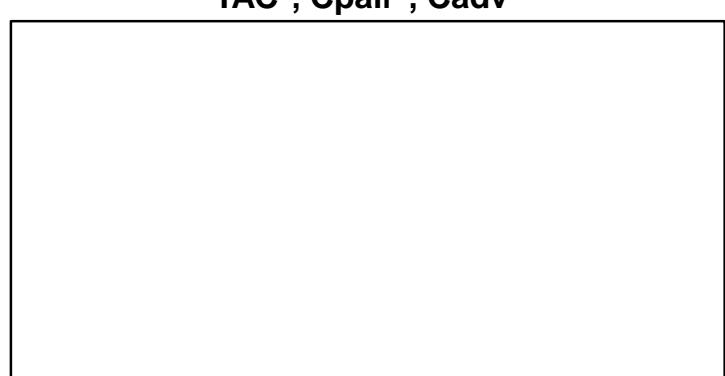
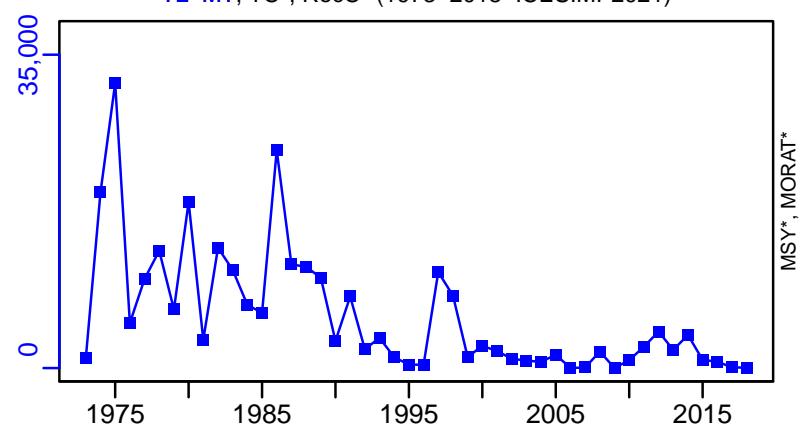


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

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

TAC*, Cpair*, Cadv*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 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]

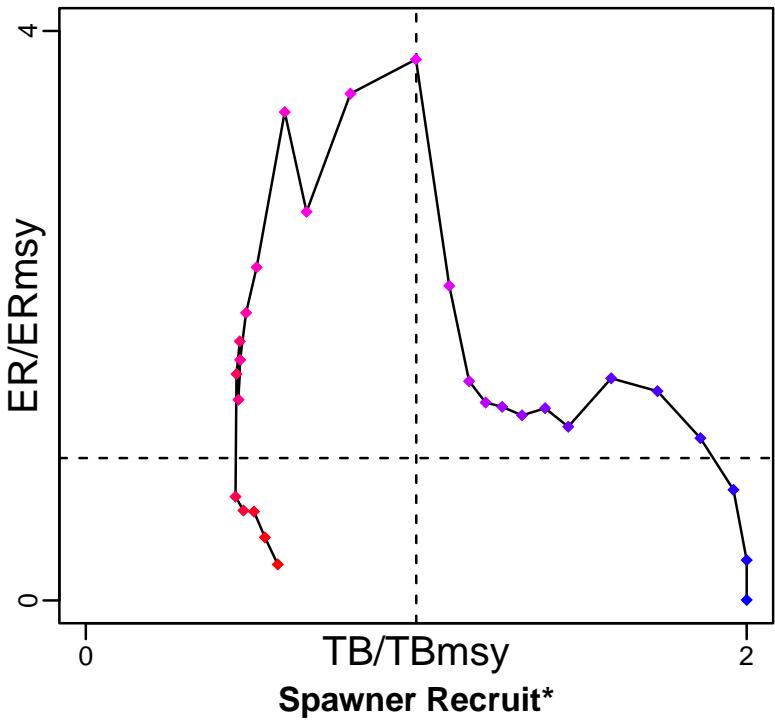
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENVb-VI-VII-XIIb-1988-2019-ICESIMP2021-2
Area	ICES 5b-6-7-12b
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts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

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

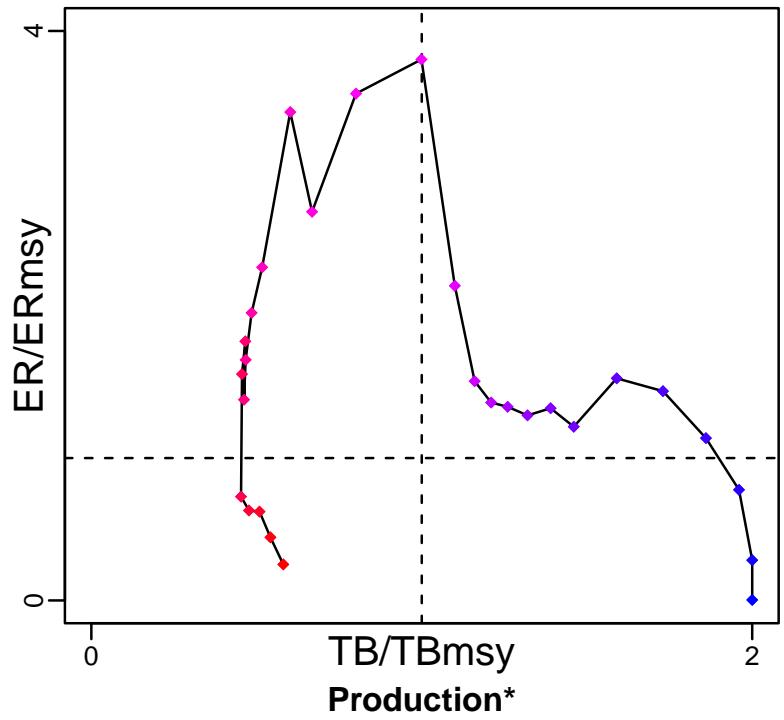
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	-	-	-	-	-	-
TN	-	-	-	-	-	-
R	-	-	-	-	-	-
F	-	-	-	-	-	-
ER	-	-	-	-	-	-
TC	-	-	-			
TL	TL-MT	2019	689			
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.581			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ERdivERmsy-dimensionless	2016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

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

Kobe MSYpref (1988–2016–ICESIMP2016)



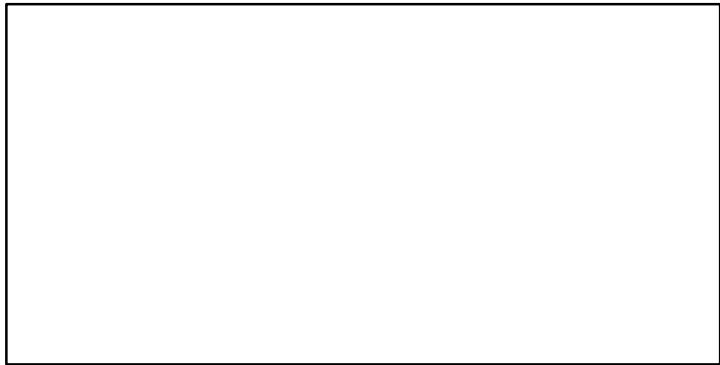
Kobe MGTpref (1988–2016–ICESIMP2016)



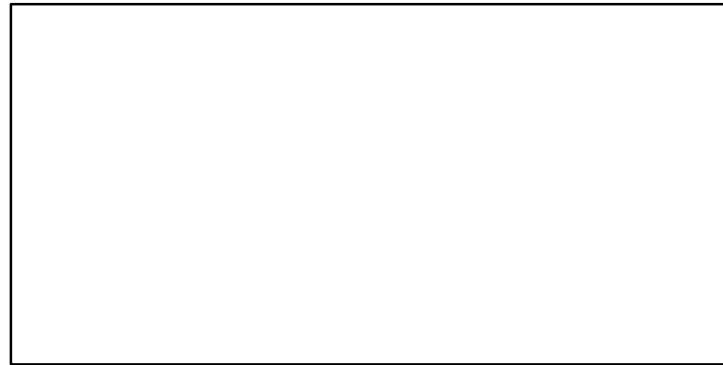
◆ Start Year	◆ End Year	* No Data
--------------	------------	-----------

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

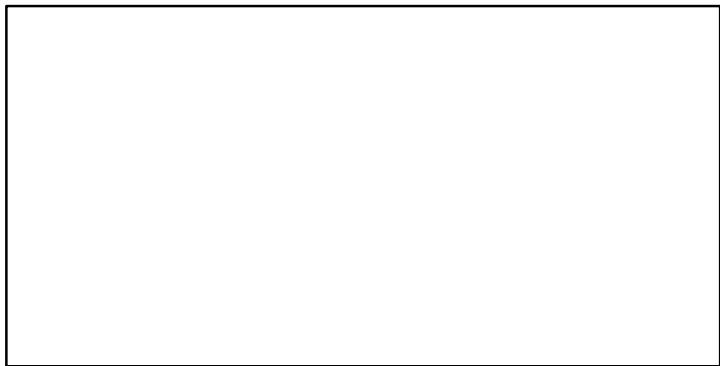
TB*



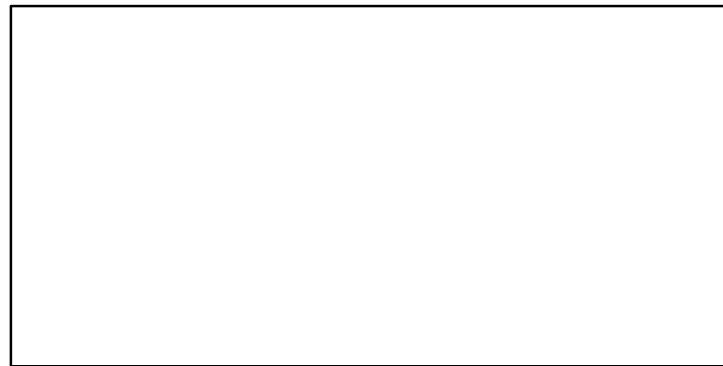
SSB*



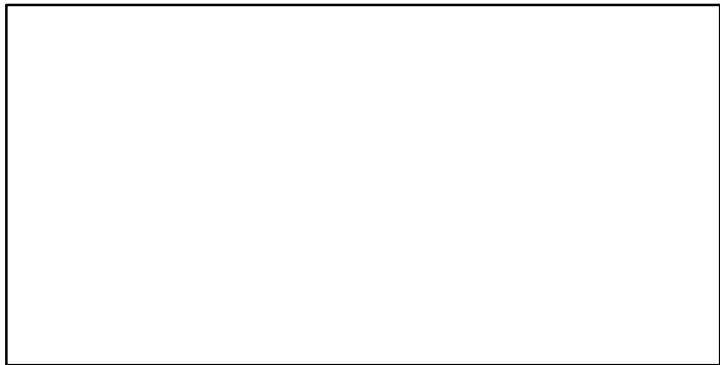
TN *



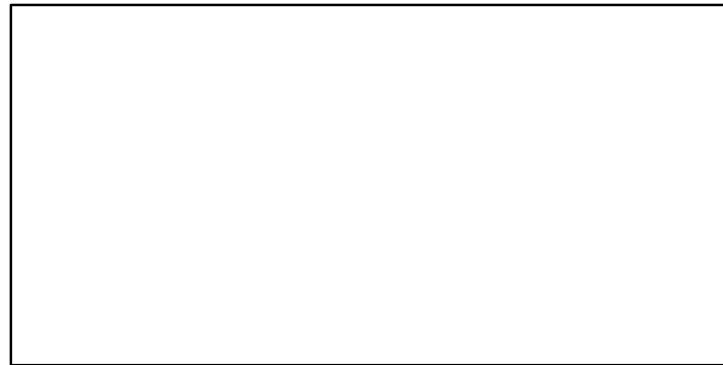
F*



ER*



Recruits*

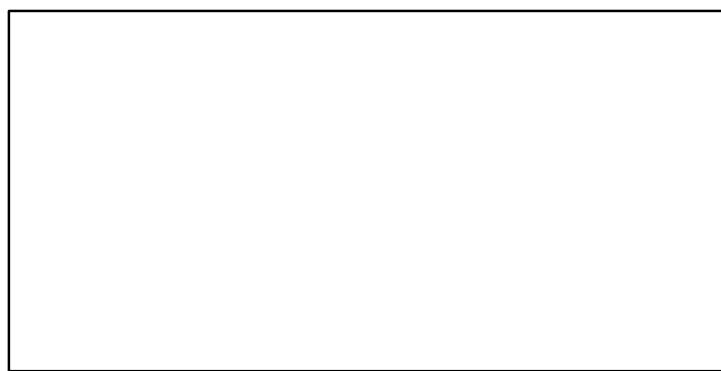
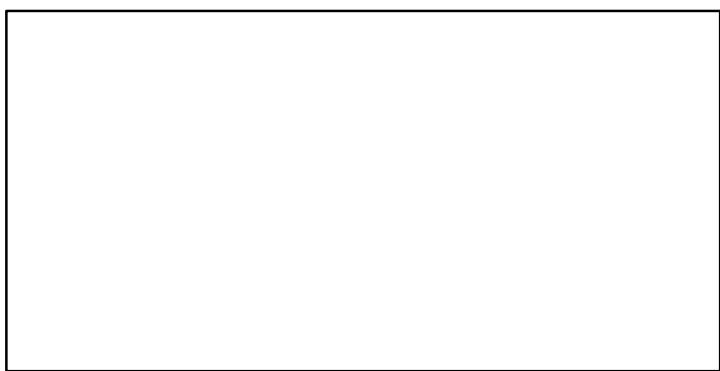
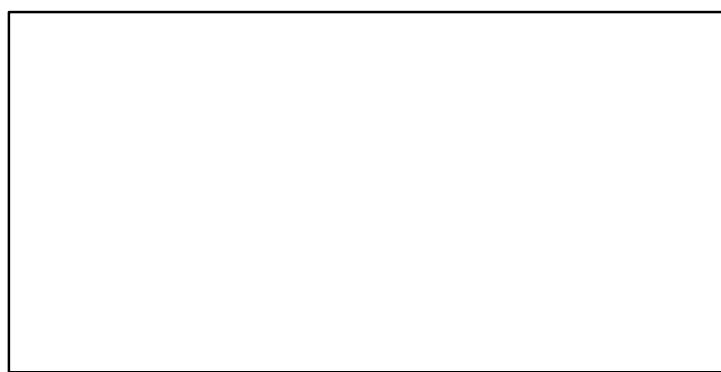
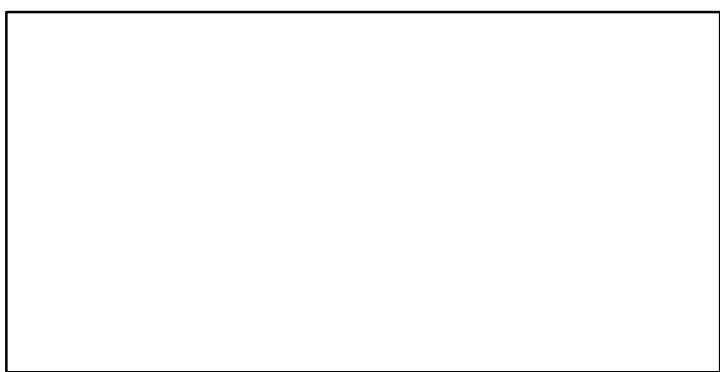
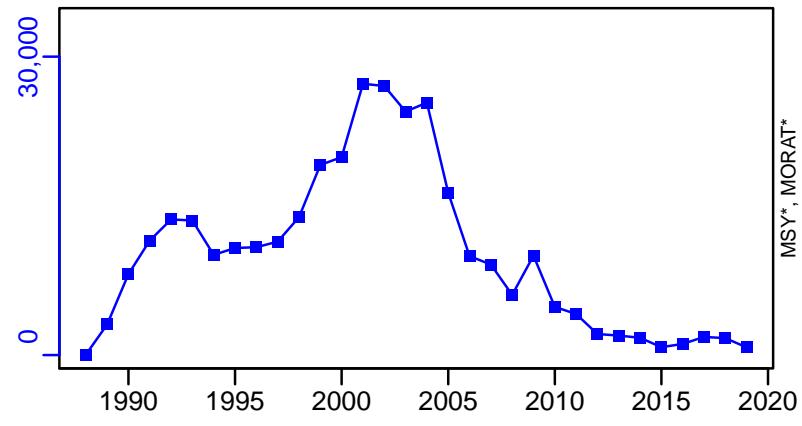


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

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

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

TAC*, Cpair*, Cadv*



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

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIA]

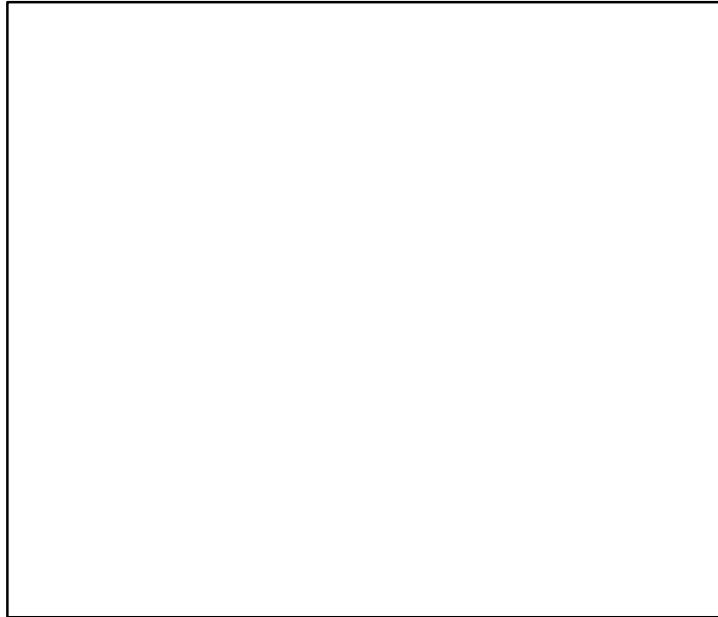
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGRENIIIA-1985-2019-ICESIMP2021-2
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts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

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

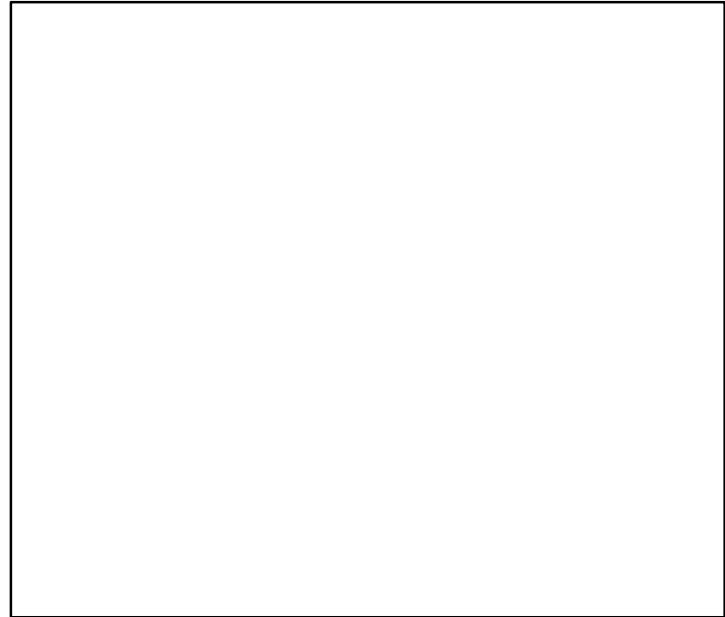
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2		
TL	TL-MT	2019	0.99		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-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

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIA]

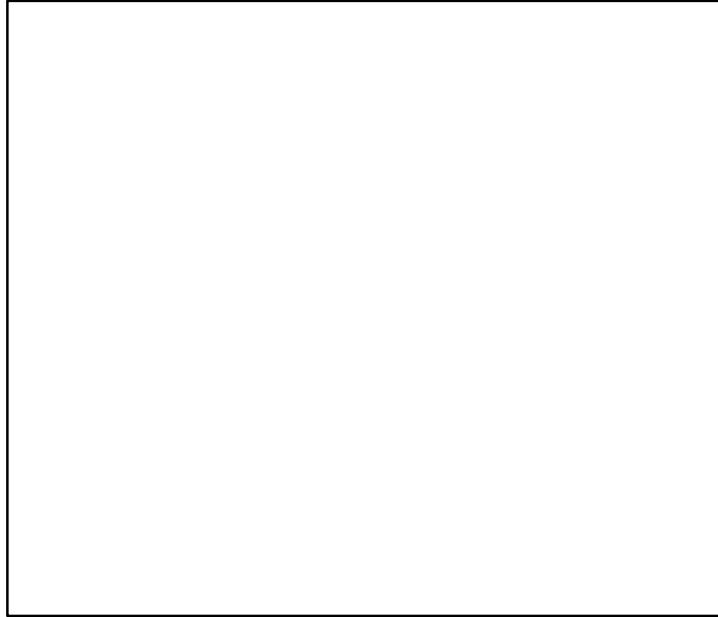
Kobe MSY*



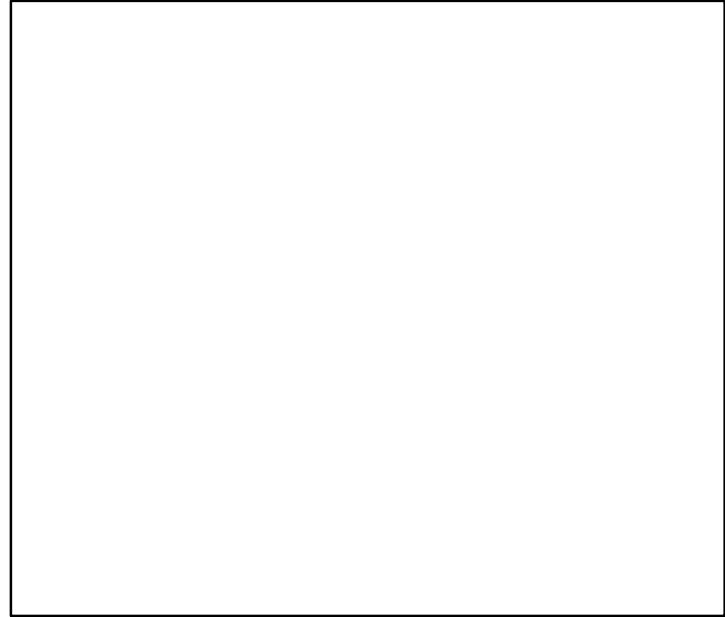
Kobe MGT*



Spawner Recruit*



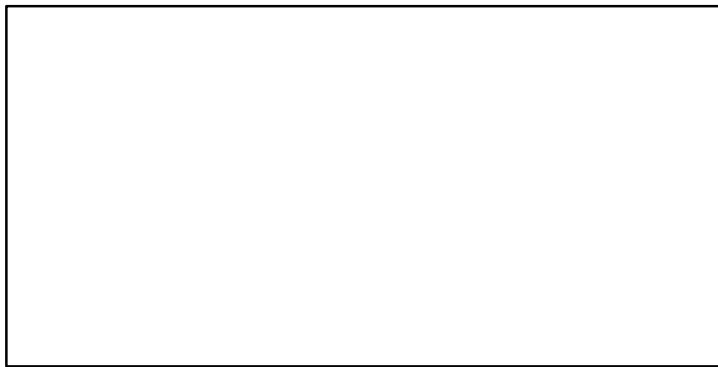
Production*



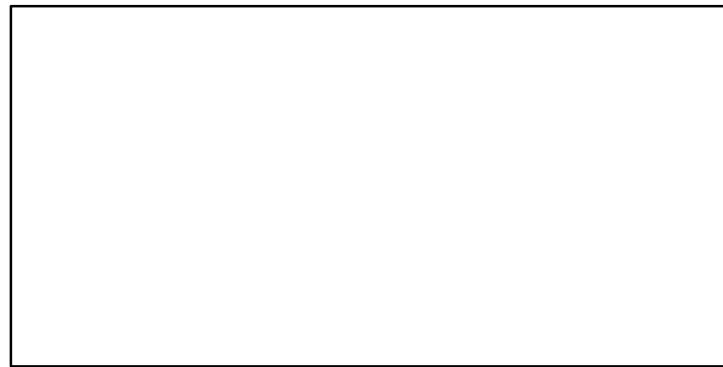
◆ Start Year ♦ End Year * No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIla]

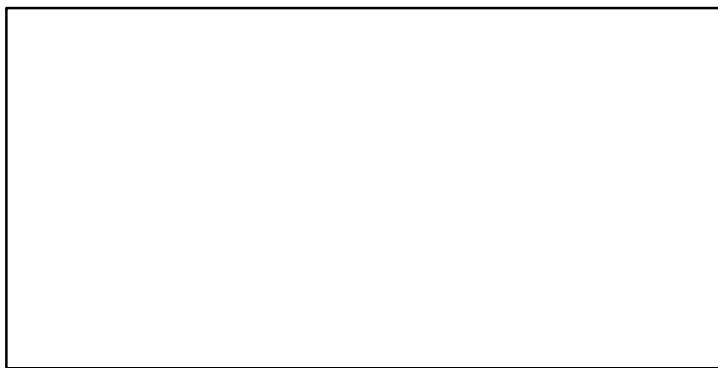
TB*



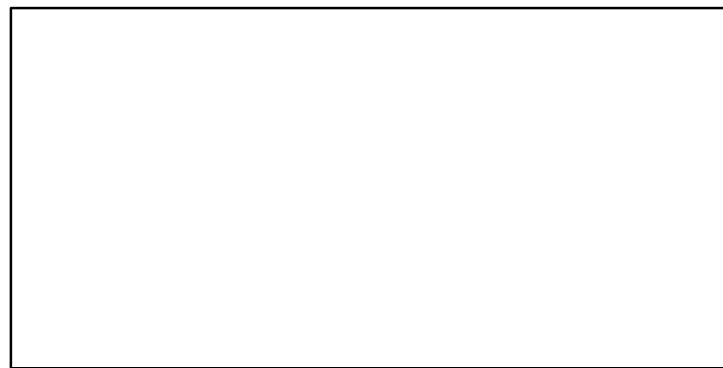
SSB*



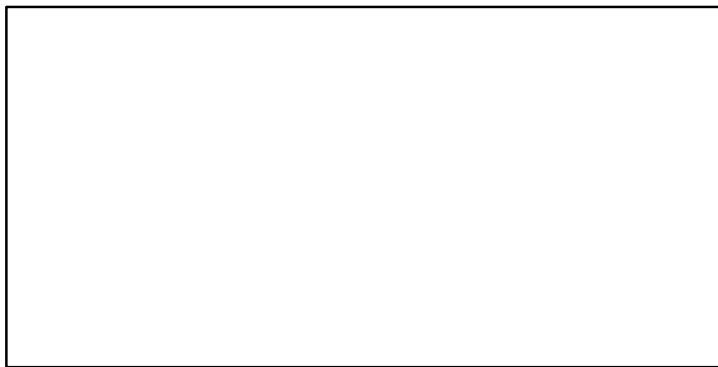
TN *



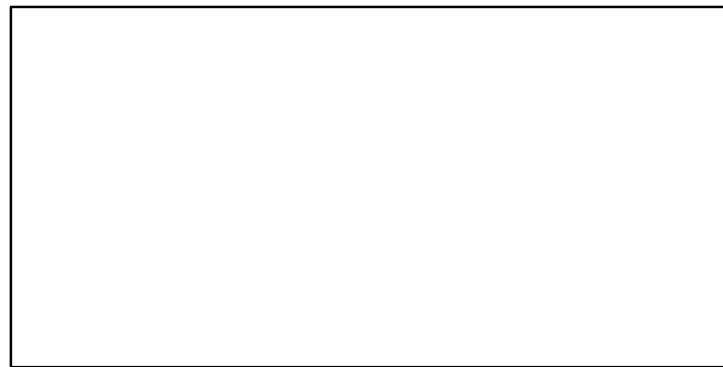
F*



ER*



Recruits*

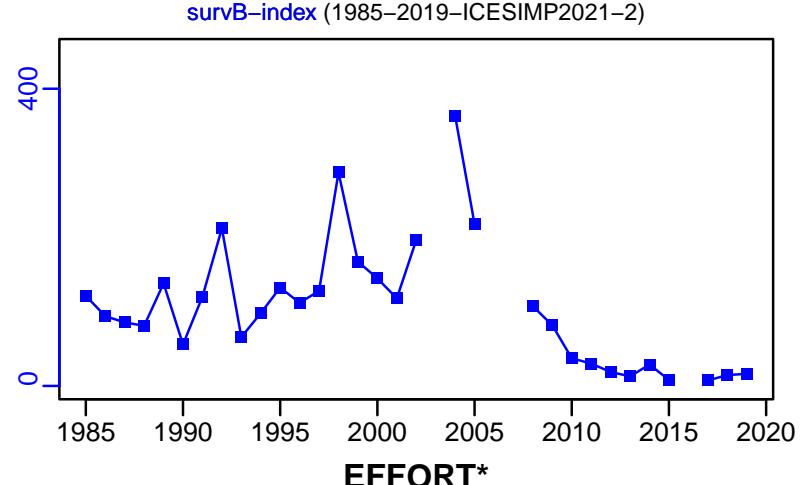
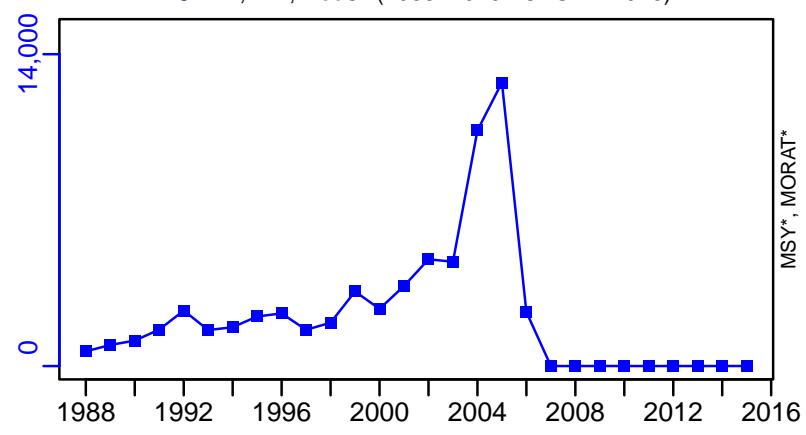


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIla]

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

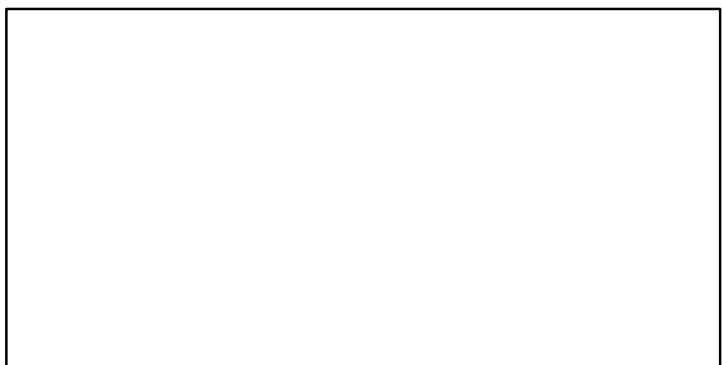
TAC*, Cpair*, Cadv*



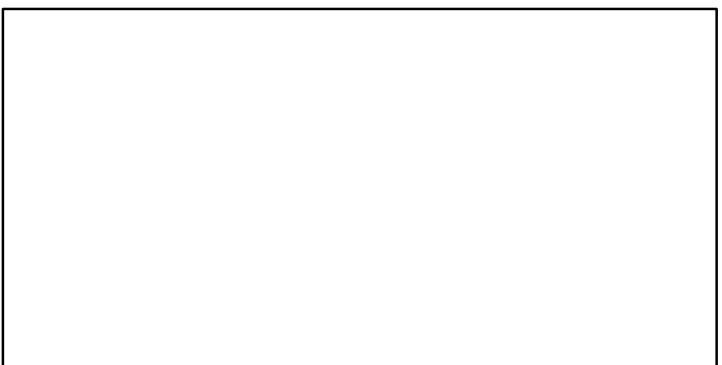
CPUE*



EFFORT*



CdivMSY*



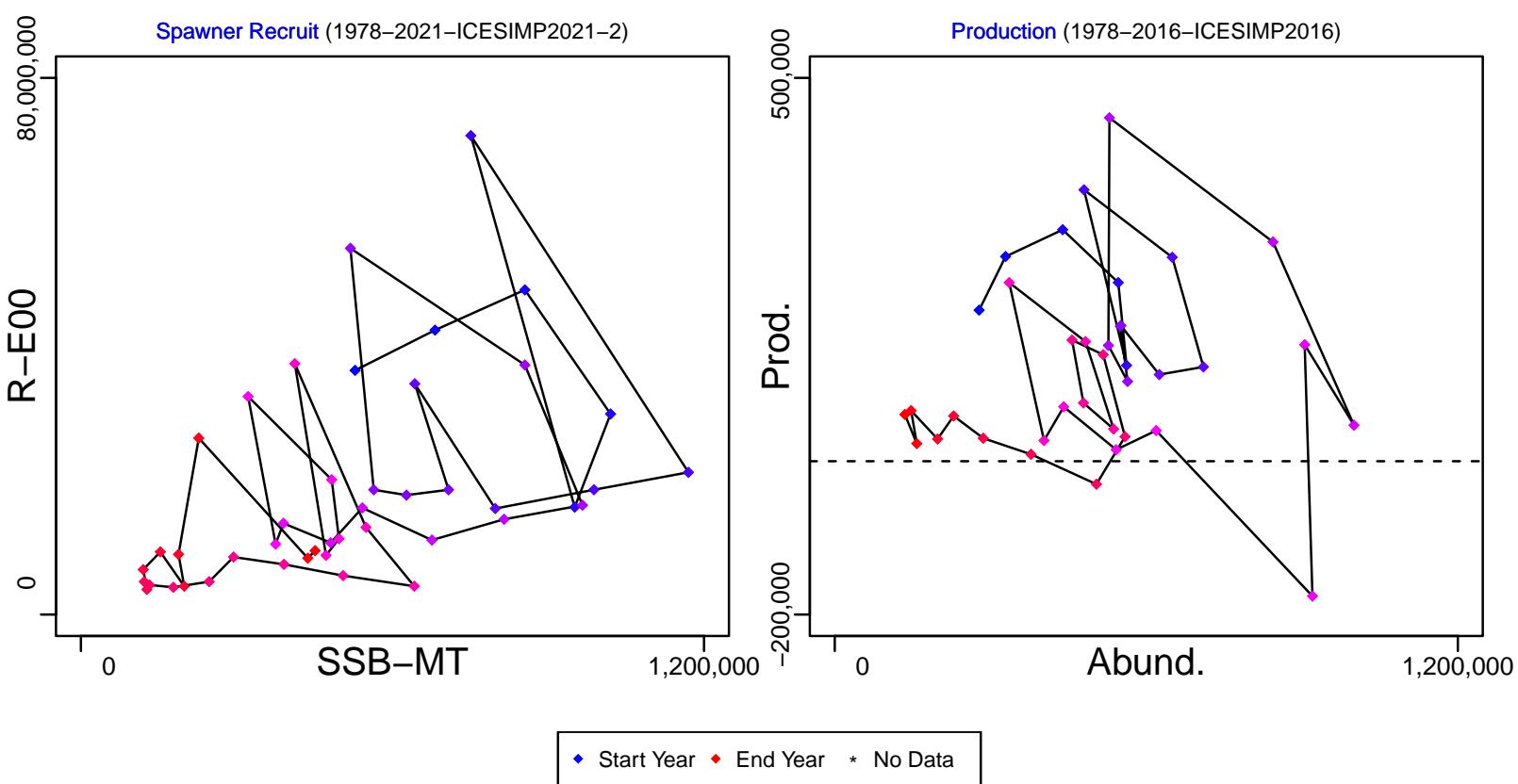
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

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

Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDPVIIIC-IXa-1978-2021-ICESIMP2021-2
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, 2020, 2021, 2011

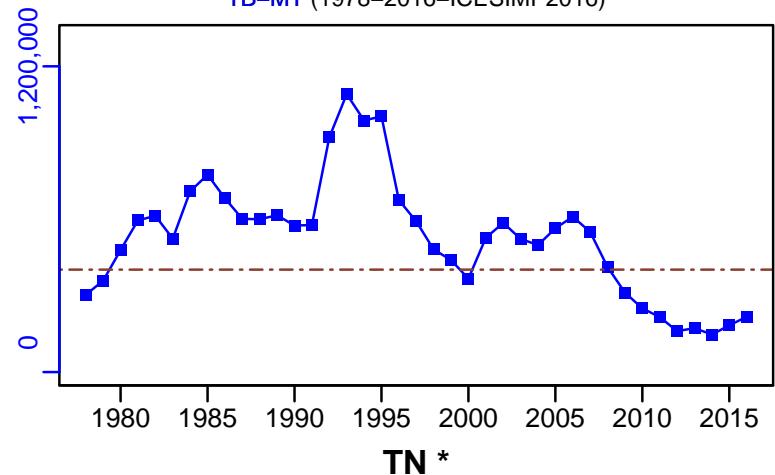
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.092
ERmsy	-	-	-
TBmgt	TBmgt-MT	2016	368,400
SSBmgt	SSBmgt-MT	2015	368,400
Fmgt	Fmgt-1/yr	2021	0.092
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.33
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	196,000
Flim	Flim-1/yr	2021	0.26
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	199,000	Both	-
SSB	SSB-MT	2021	451,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	9,520,000	-	0
F	F-1/yr	2021	0.061	-	-
ER	ER-calc-ratio	2016	0.125	-	-
TC	TC-MT	2021	22,100		
TL	TL-MT	2018	21,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.658		
ER/ERmsy	-	-	-		
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.54		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.658		
ER/ERmgt	-	-	-		

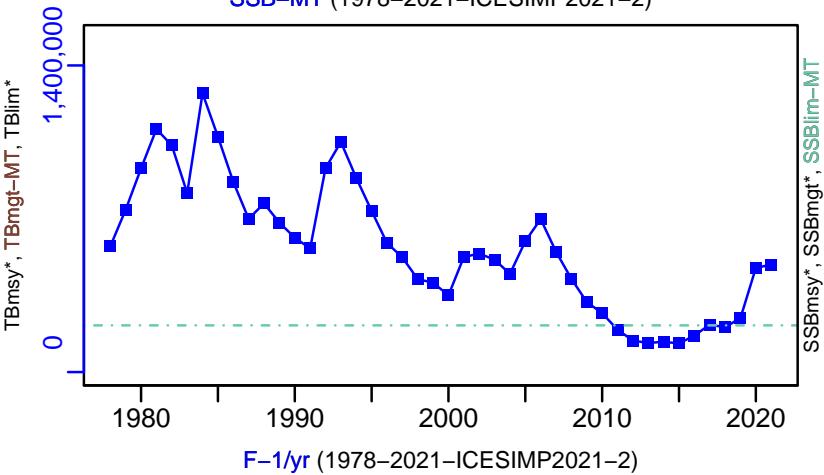
Kobe MSY***Kobe MGT***

Sardine ICES 8c–9a [SARDPVIIlc–IXa]

TB-MT (1978–2016–ICESIMP2016)

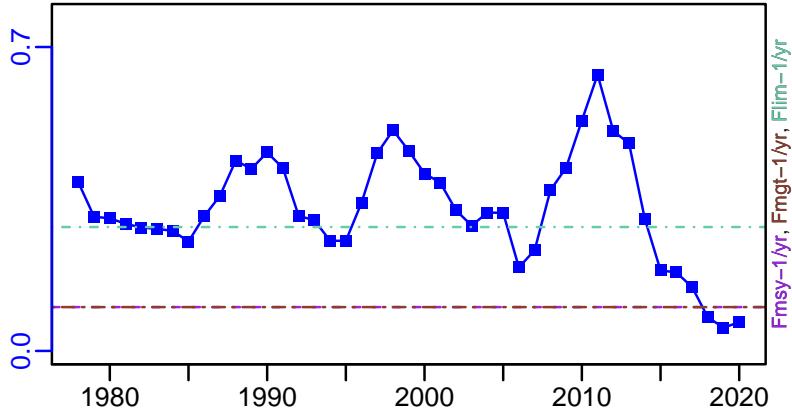
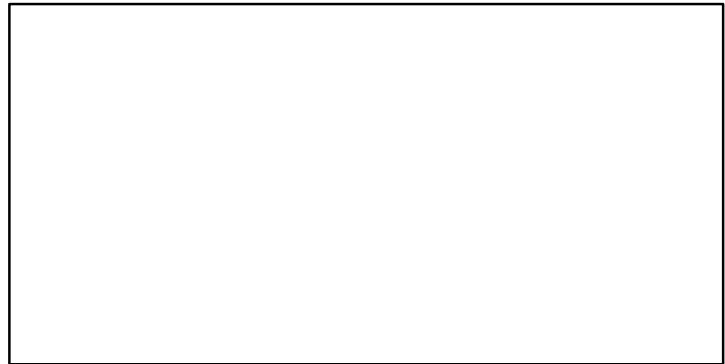


SSB-MT (1978–2021–ICESIMP2021–2)



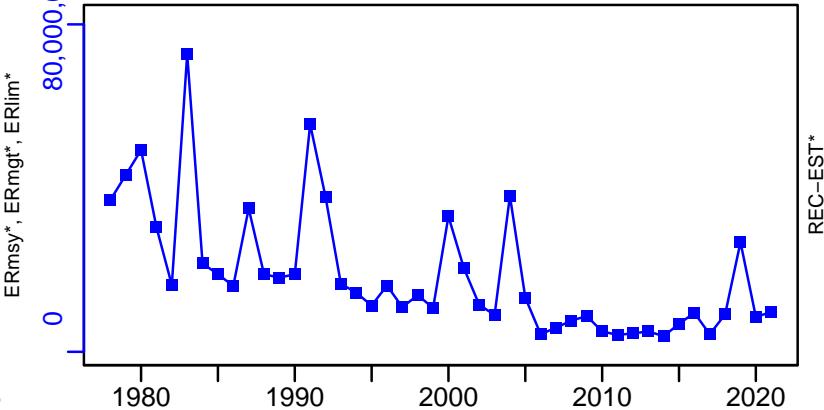
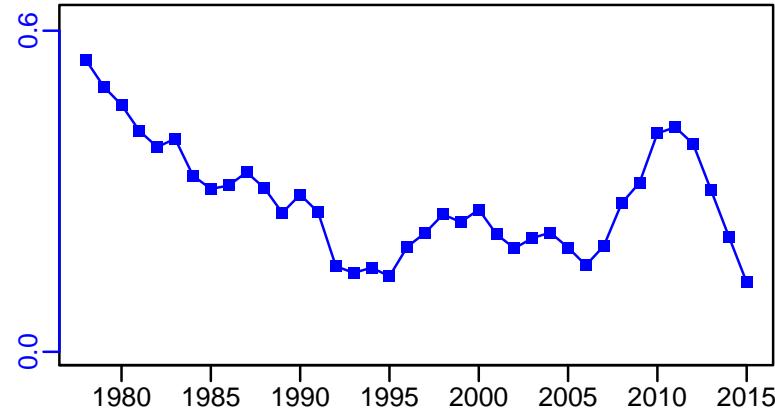
TN *

F-1/yr (1978–2021–ICESIMP2021–2)



ER-calc-ratio (1978–2016–ICESIMP2016)

R-E00 (1978–2021–ICESIMP2021–2)



ER_{MSY*}, ER_{Mgt*}, ER_{Lim*}

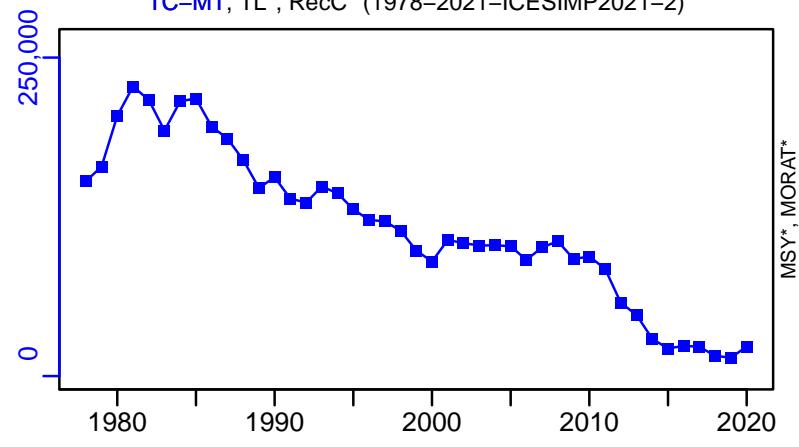
REC-EST*

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

Sardine ICES 8c–9a [SARDPVIIc–IXa]

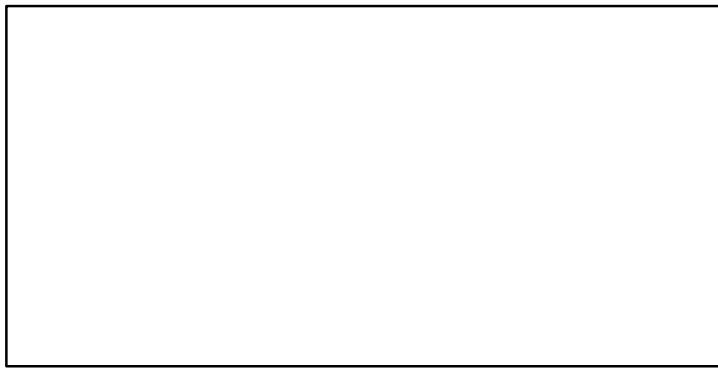
TC–MT, TL*, RecC* (1978–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*

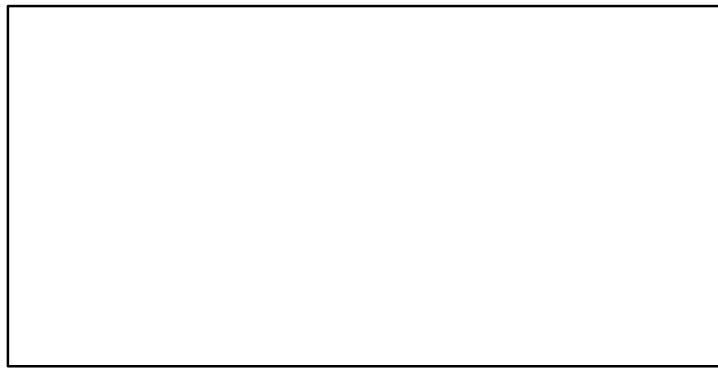


MSY*, MORAT*

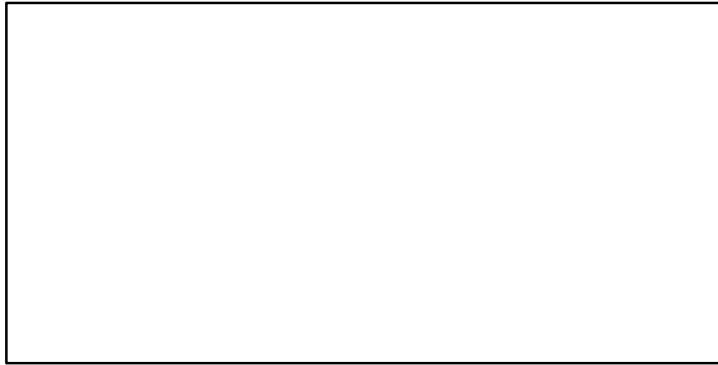
survB*



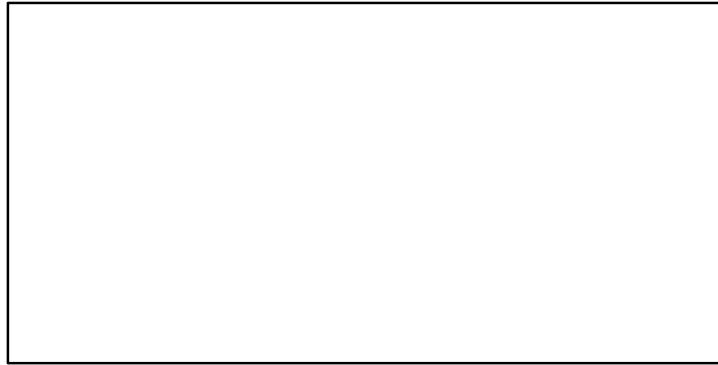
CPUE*



EFFORT*



CdivMSY*



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

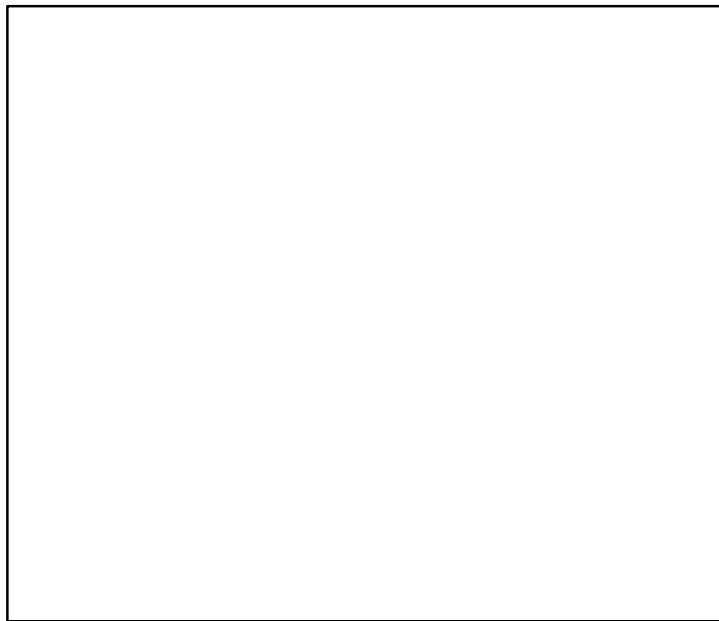
Sardine ICES 7 [SARDVII]

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

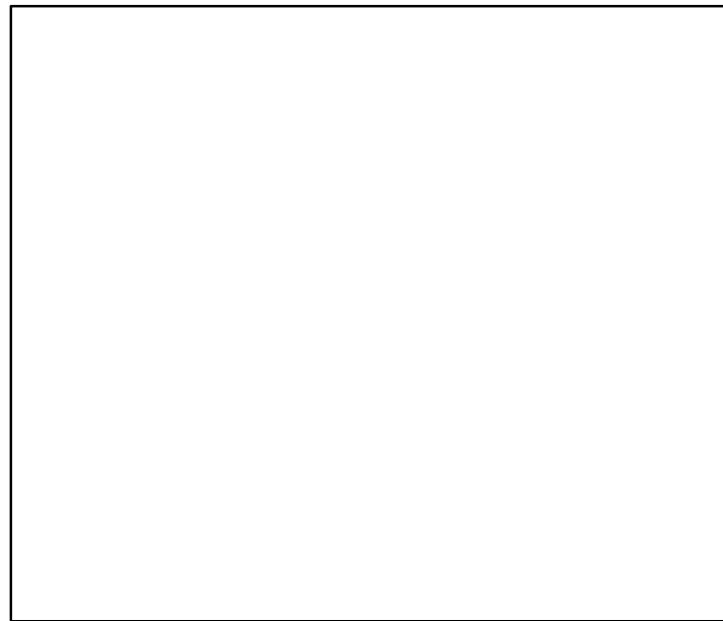
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

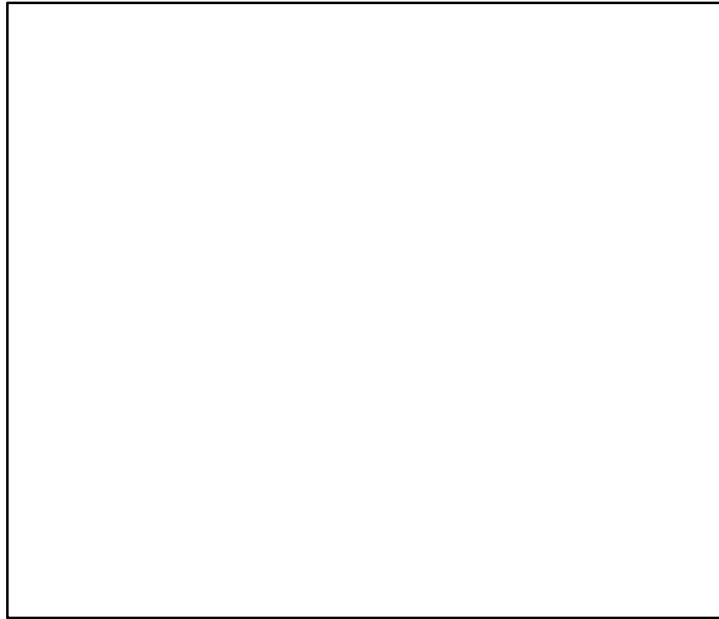
Kobe MSY*



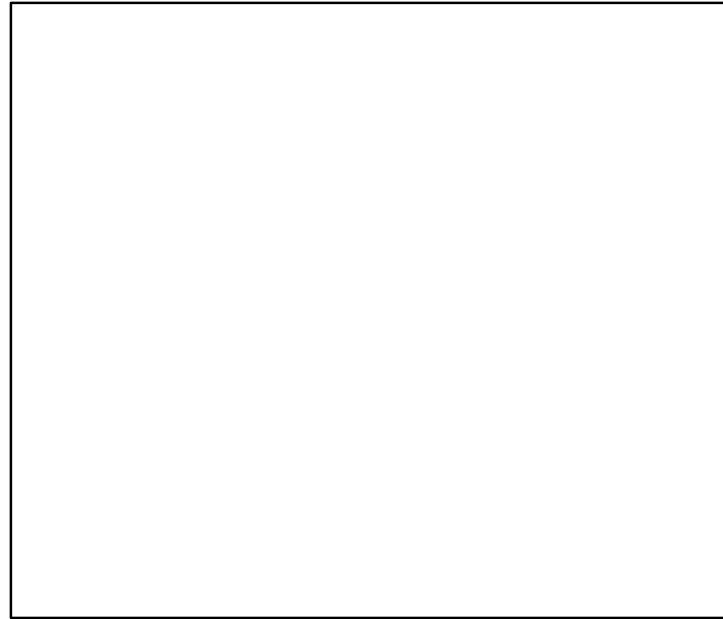
Kobe MGT*



Spawner Recruit*



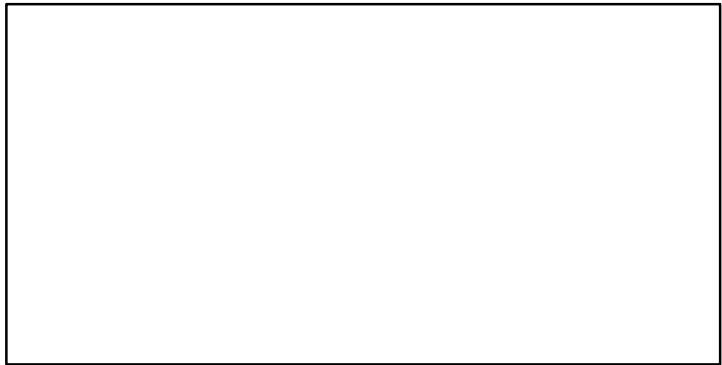
Production*



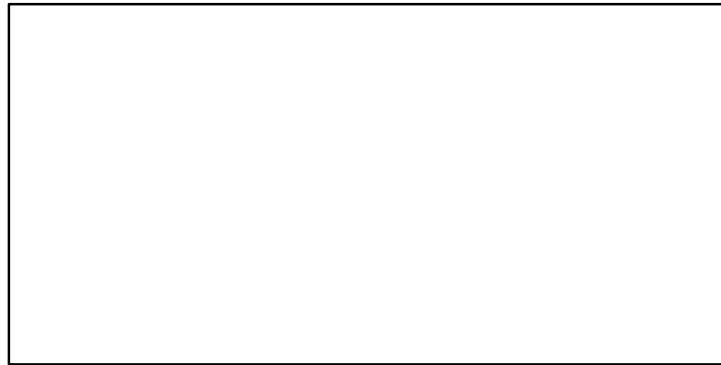
◆ Start Year ♦ End Year * No Data

Sardine ICES 7 [SARDVII]

TB*



SSB*



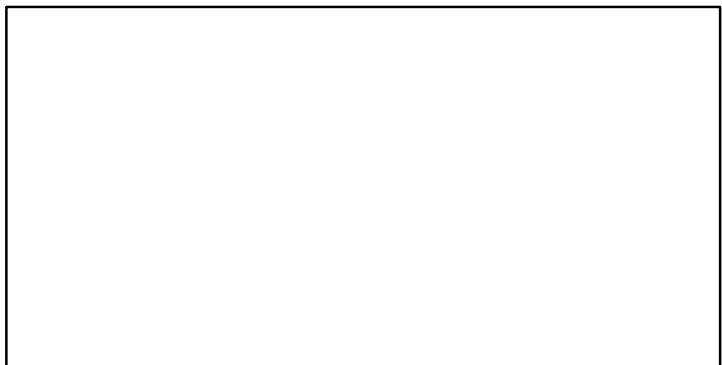
TN *



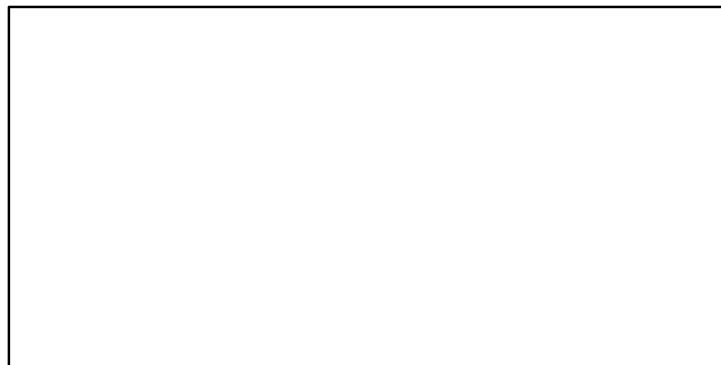
F*



ER*



Recruits*

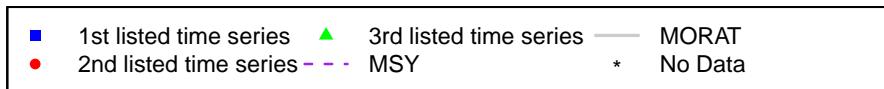
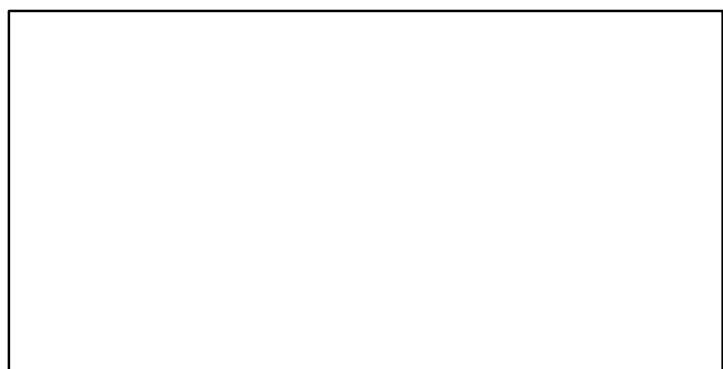
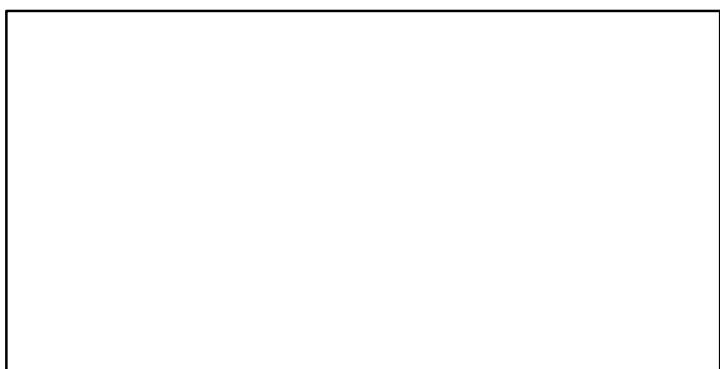
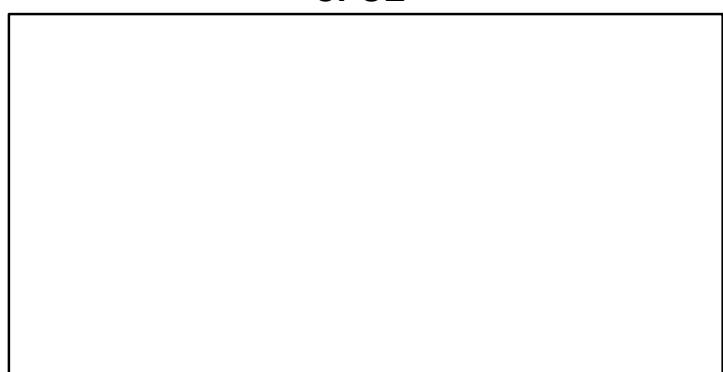
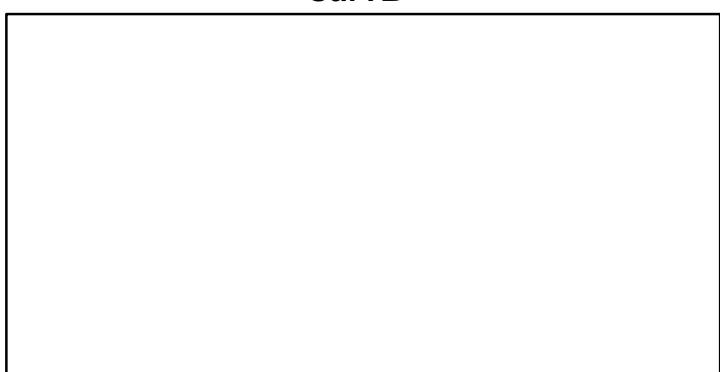
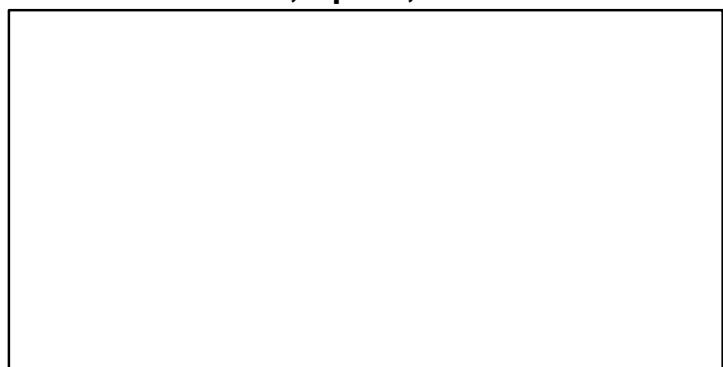
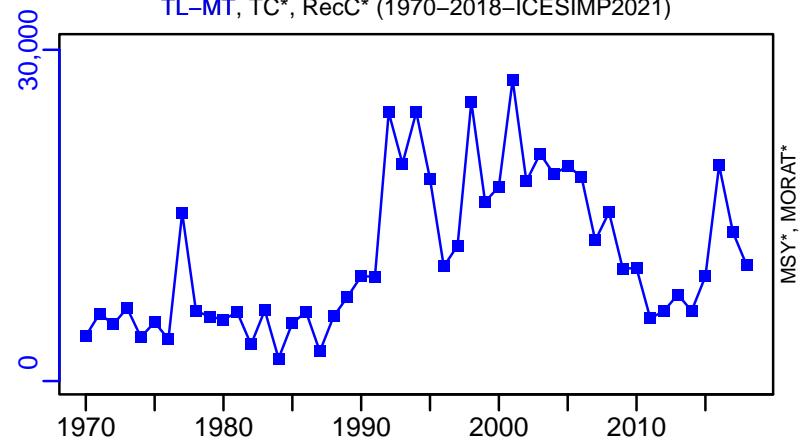


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sardine ICES 7 [SARDVII]

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

TAC*, Cpair*, Cadv*

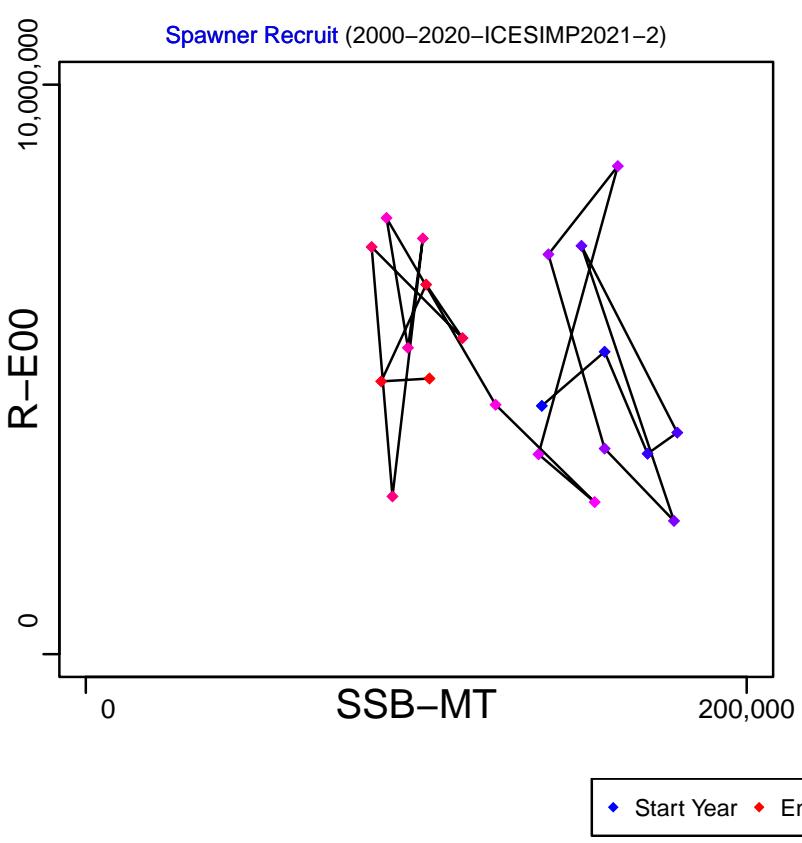


Sardine ICES 8abd [SARDVIIIabd]

Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDVIIIabd-2000-2020-ICESIMP2021-2
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, 2020, 2017, 2018

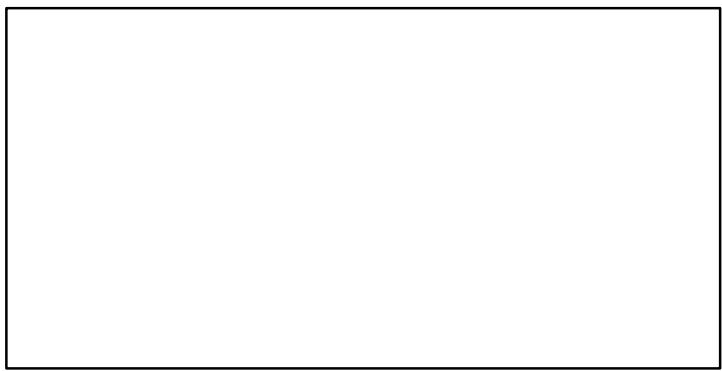
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.453
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	88,000
Fmgt	Fmgt-1/yr	2020	0.453
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2020	56,300
Flim	Flim-1/yr	2020	0.757
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	SSB-MT	2020	104,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	4,840,000	-	0	
F	F-1/yr	2020	0.379	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2020	24,600			
TL	TL-MT	2018	30,300			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.837			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	0.837			
ER/ERmgt	-	-	-			

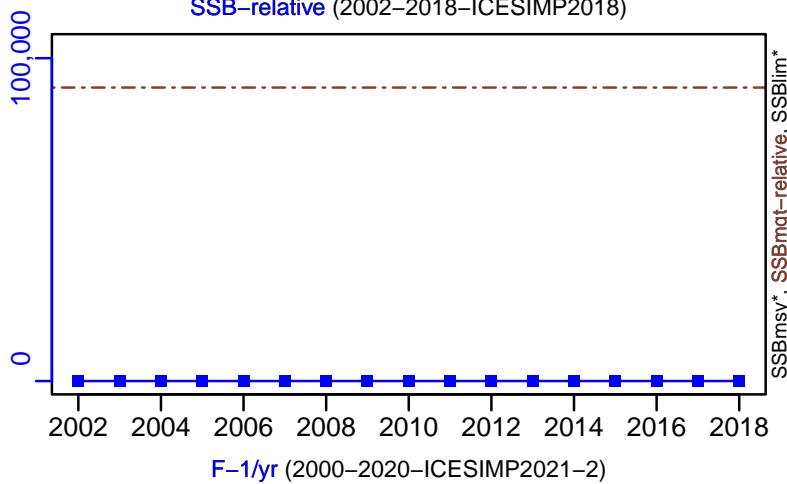
Kobe MSY***Kobe MGT***

Sardine ICES 8abd [SARDVIIabbd]

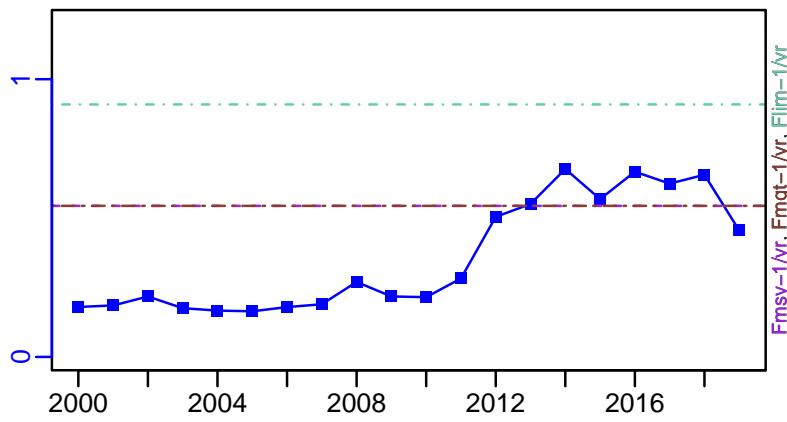
TB*



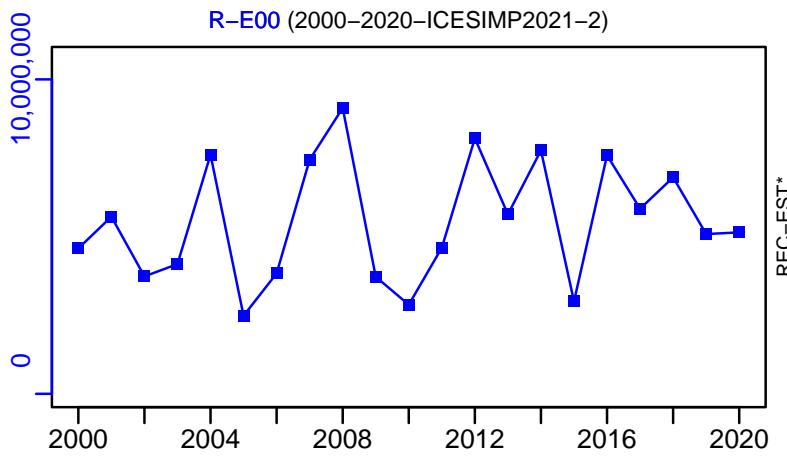
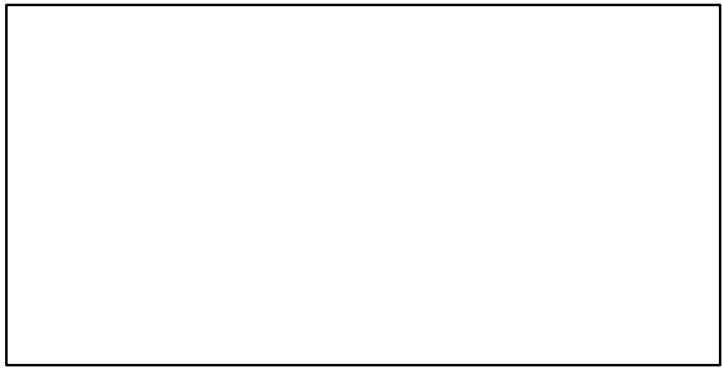
SSB-relative (2002–2018–ICESIMP2018)



TN *



ER*

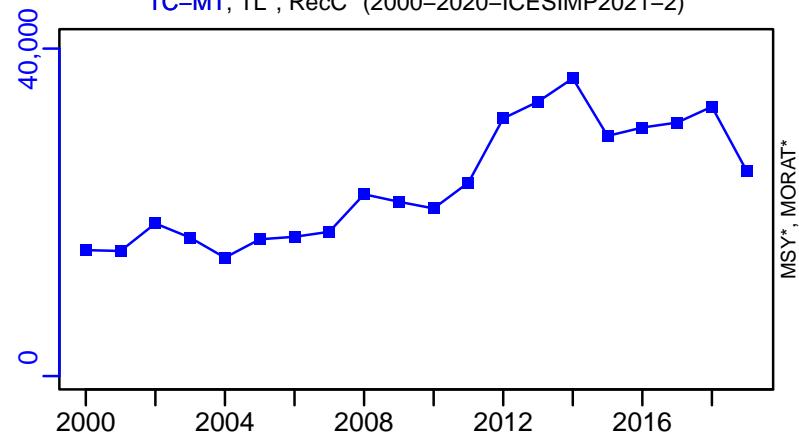


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Sardine ICES 8abd [SARDVIIab*d*]

TC-MT, TL*, RecC* (2000–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



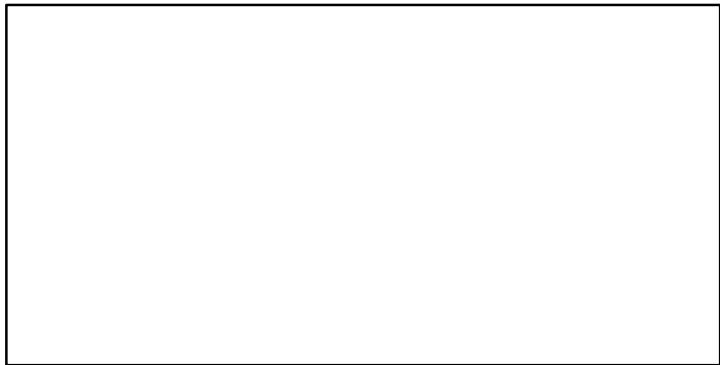
survB*



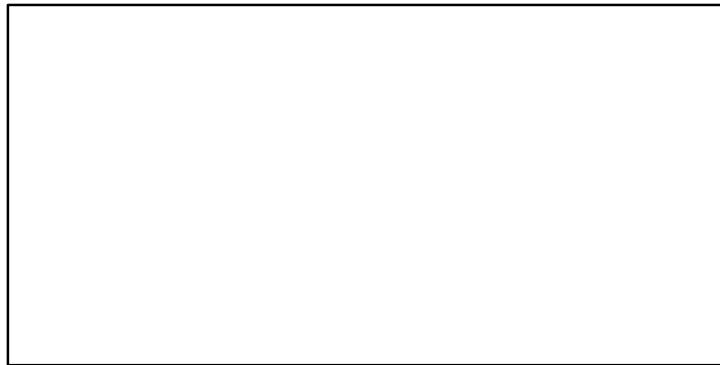
CPUE*



EFFORT*



CdivMSY*



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

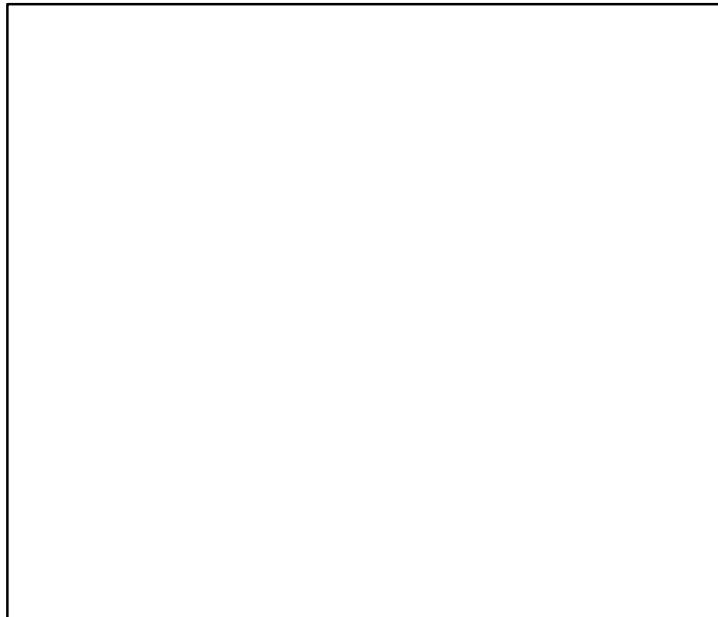
Sandy ray ICES 6-7 [SDRAYVI-VII]

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

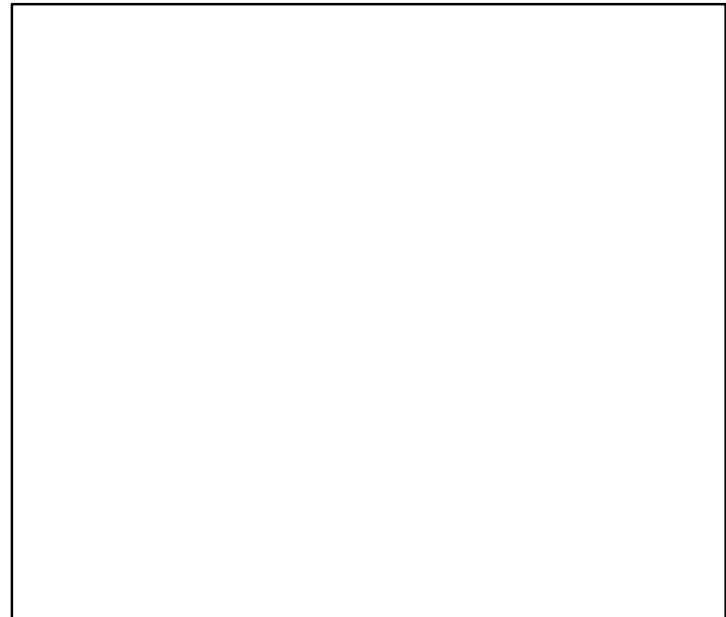
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*

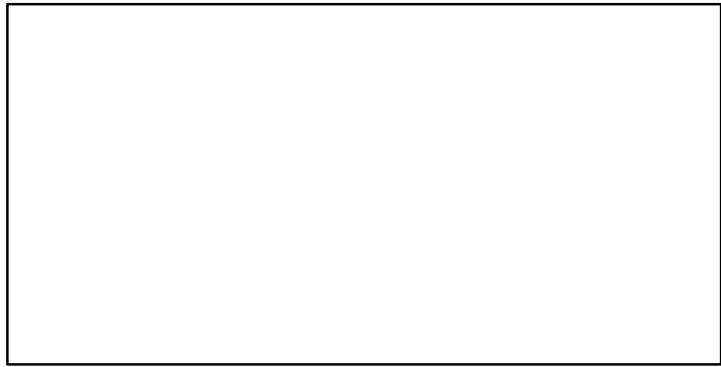


Production*

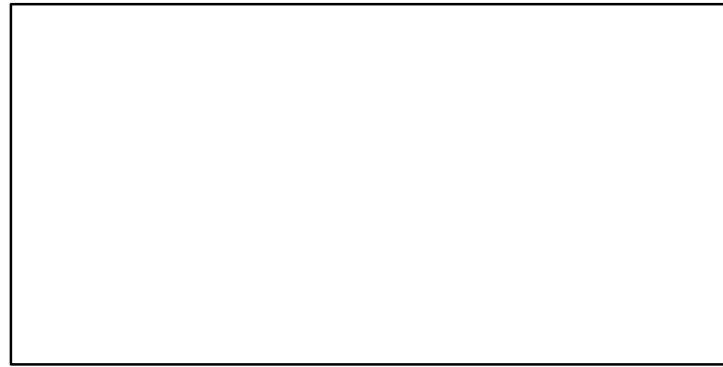


◆ Start Year ♦ End Year * No Data

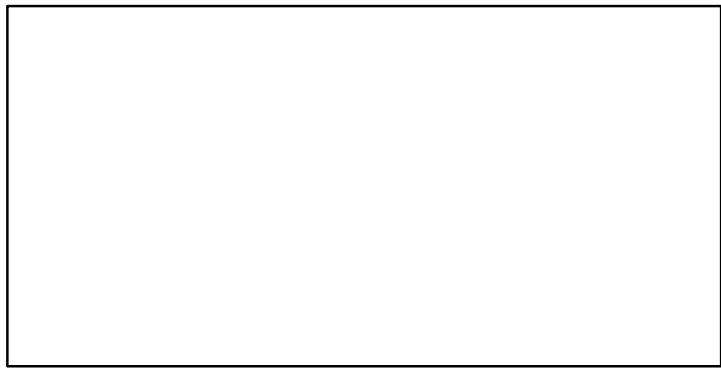
TB*



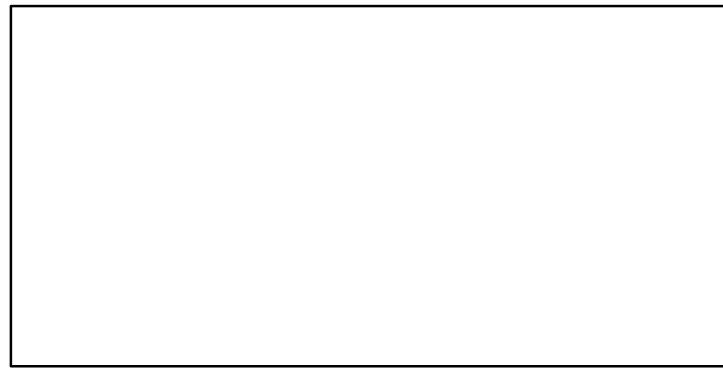
SSB*



TN *



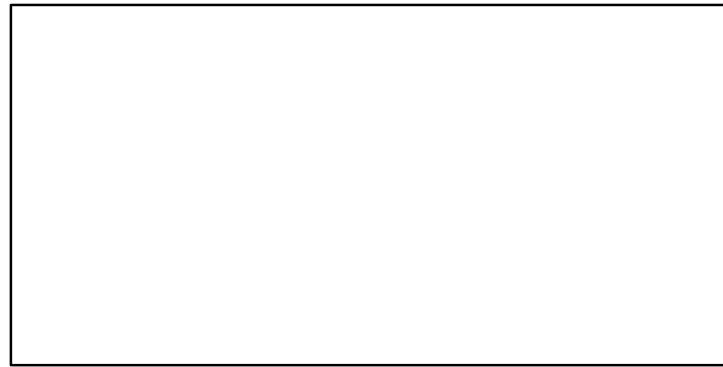
F*



ER*



Recruits*

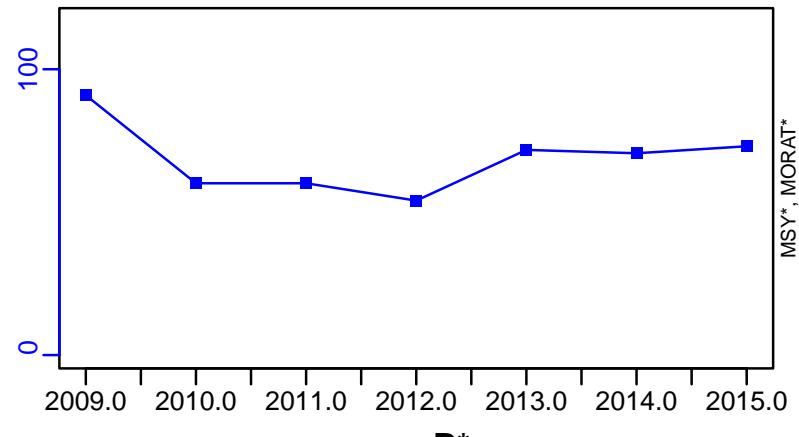


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sandy ray ICES 6–7 [SDRAYVI–VII]

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

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

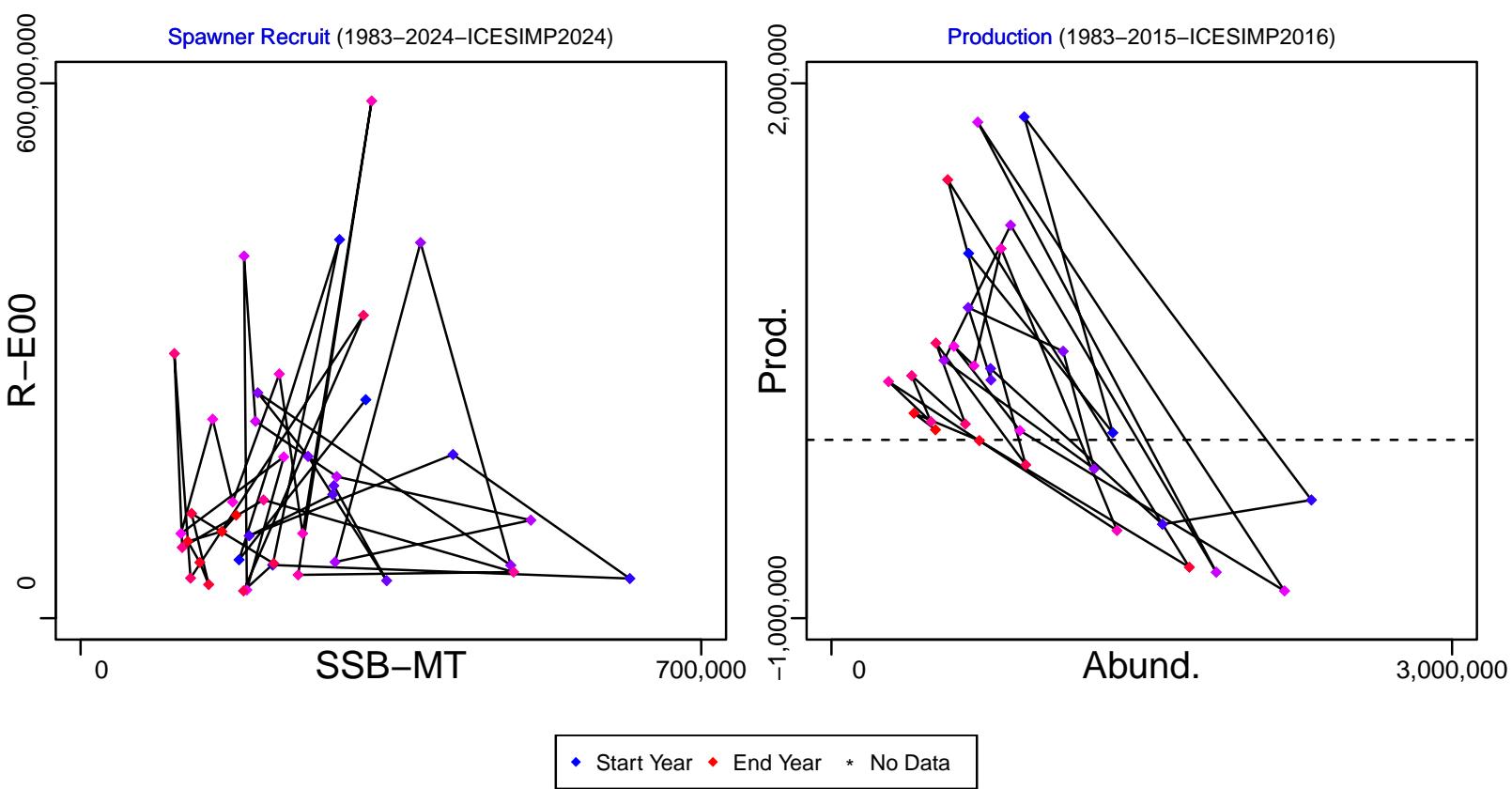
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Sand eel Sandeel Area 1 [SEELNSSA1]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA1-1983-2024-ICESIMP2024
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, 2020, 2021, 2024, 2011

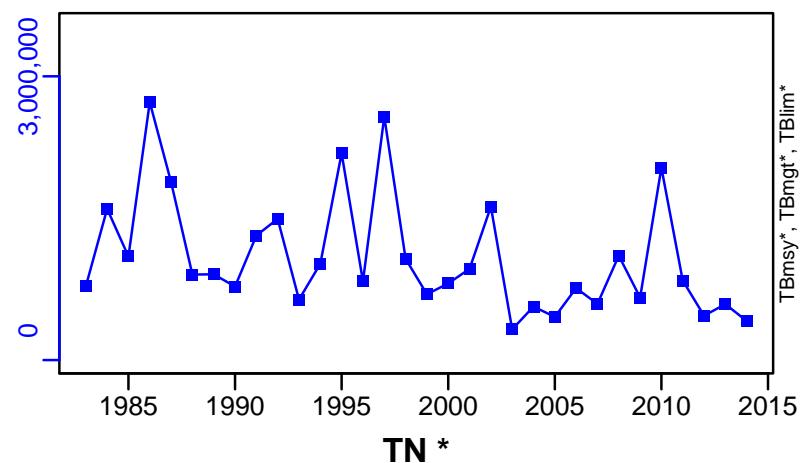
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	145,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2024	105,809
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	351,000	Both	-	
SSB	SSB-MT	2024	175,408	-	-	
TN	-	-	-	-	-	
R	R-E00	2024	115,580,737	-	0	
F	F-1/yr	2024	0.26	-	1 to 2	
ER	ER-ratio	2021	0.493	-	-	
TC	TC-MT	2024	88,581			
TL	TL-MT	2020	59,600			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.917			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

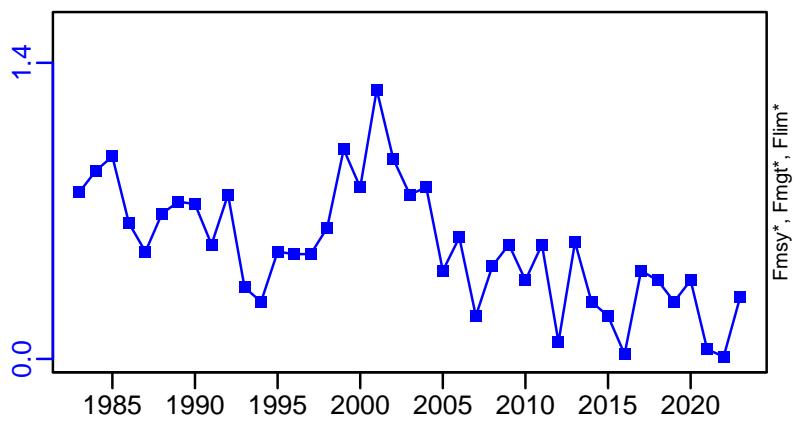
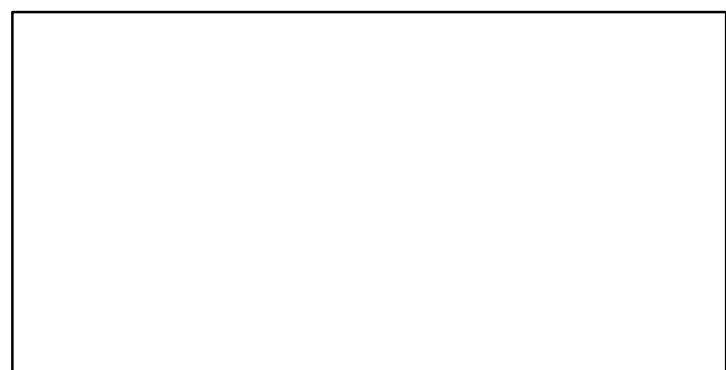
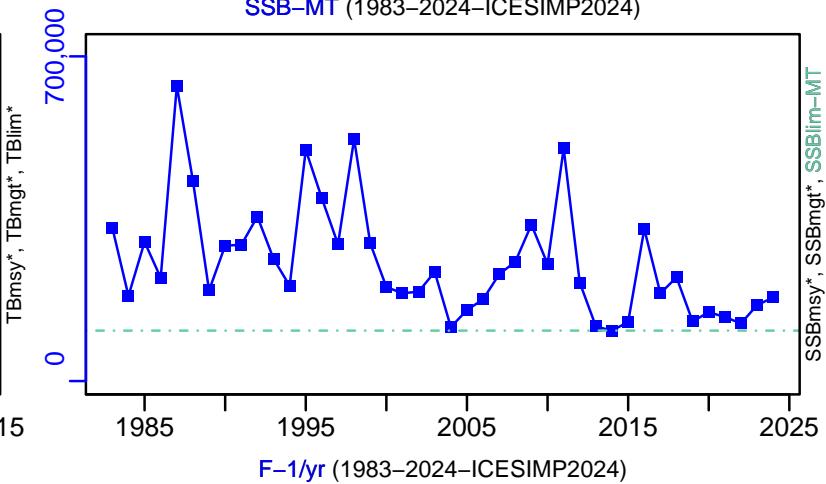
Kobe MSY***Kobe MGT***

Sand eel Sandeel Area 1 [SEELNSSA1]

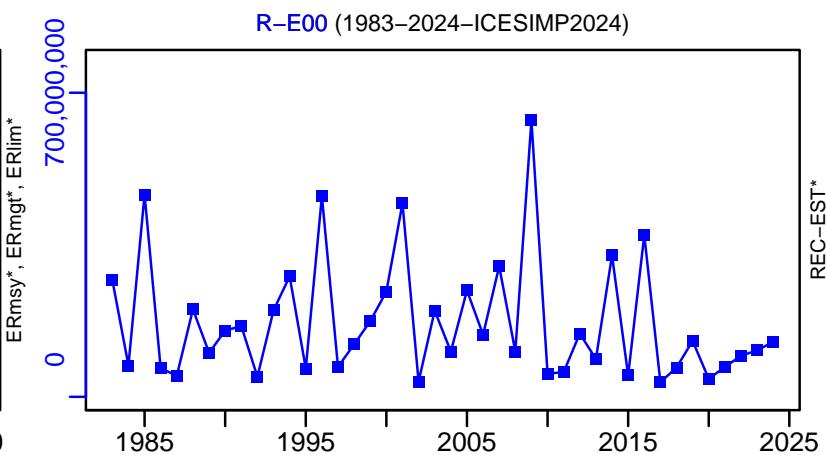
TB-MT (1983–2015–ICESIMP2016)



SSB-MT (1983–2024–ICESIMP2024)



R-E00 (1983–2024–ICESIMP2024)

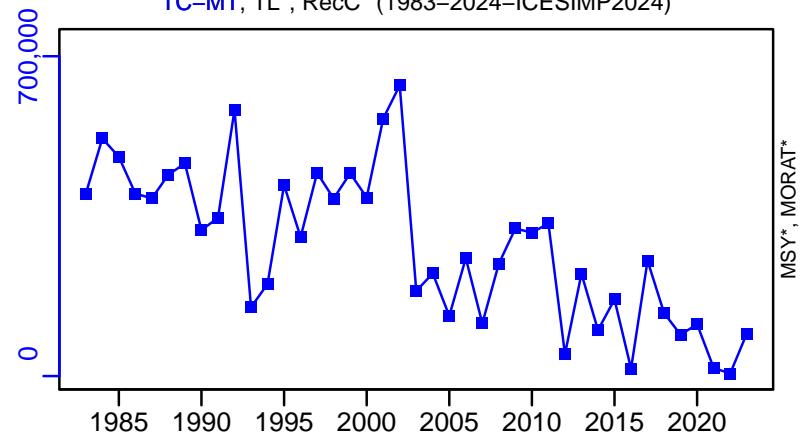


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

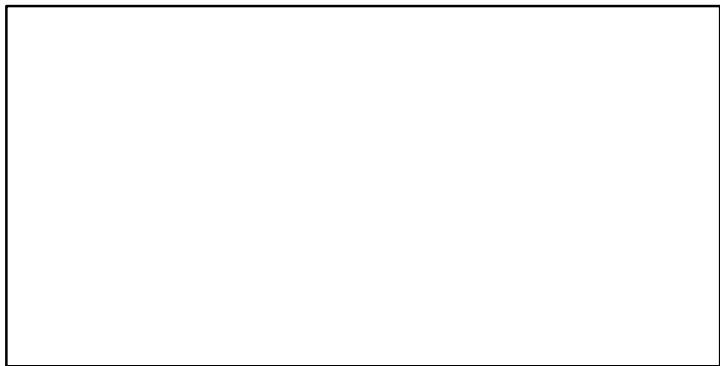
Sand eel Sandeel Area 1 [SEELNSSA1]

TC-MT, TL*, RecC* (1983–2024—ICESIMP2024)

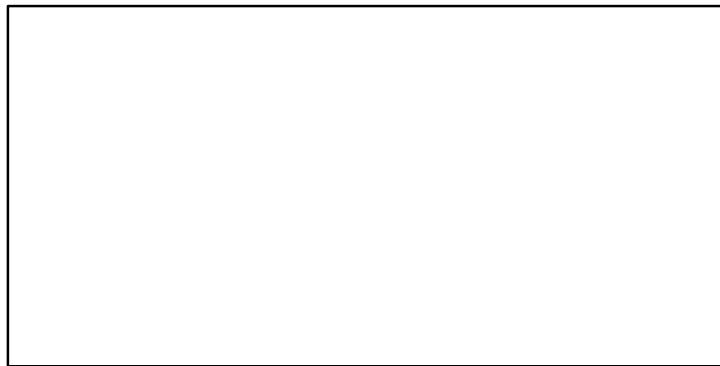
TAC*, Cpair*, Cadv*



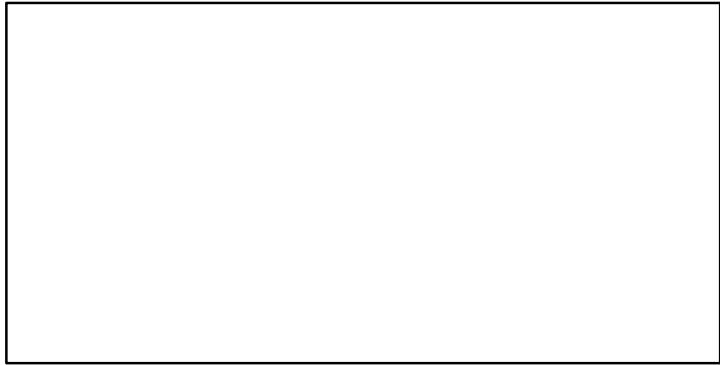
survB*



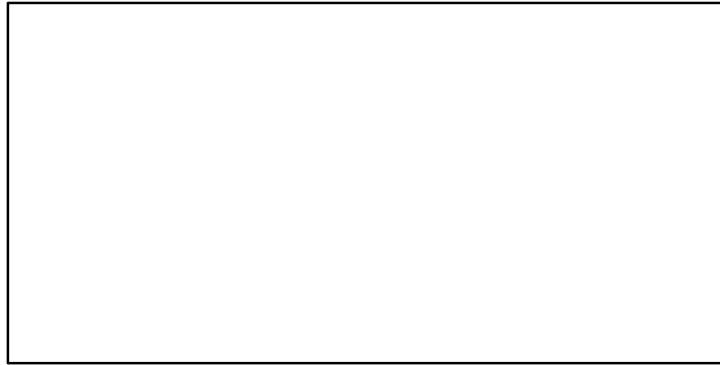
CPUE*



EFFORT*



CdivMSY*



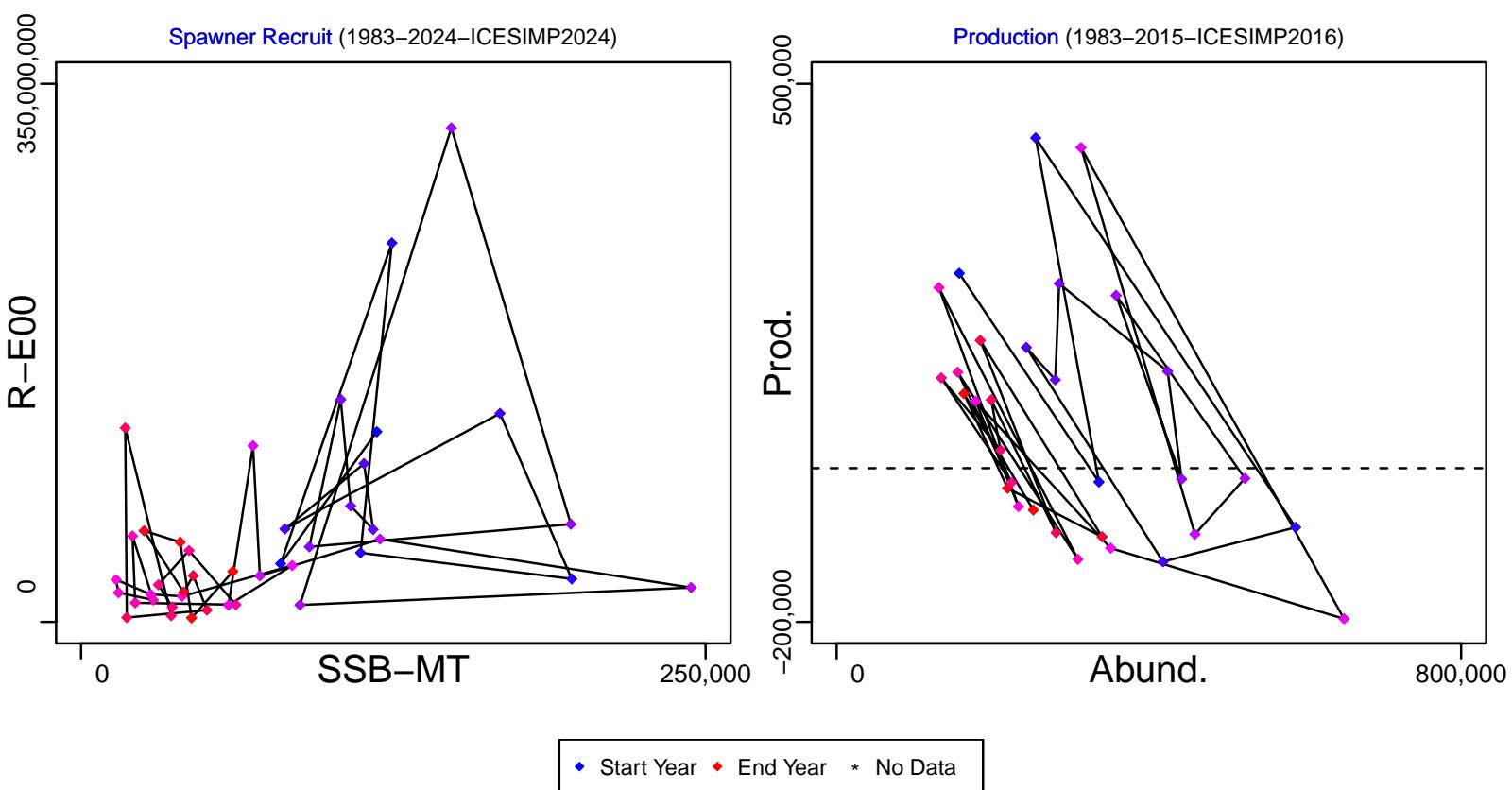
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Sand eel Sandeel Area 2 [SEELNSSA2]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA2-1983-2024-ICESIMP2024
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, 2020, 2021, 2024, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	84,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2024	18,949
Flim	-	-	-
ERlim	-	-	-

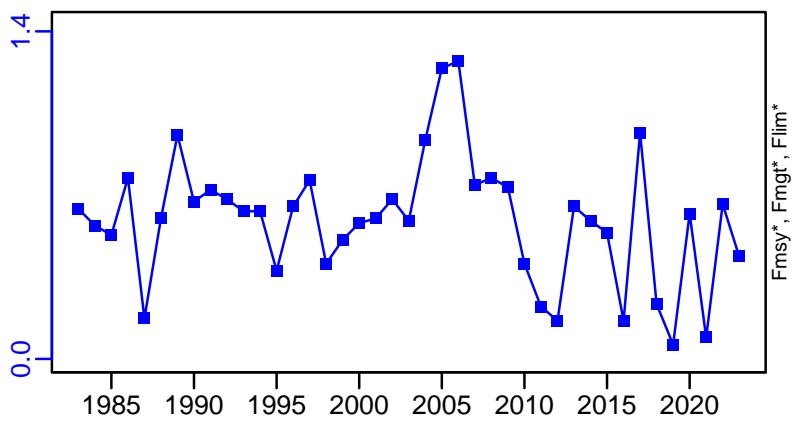
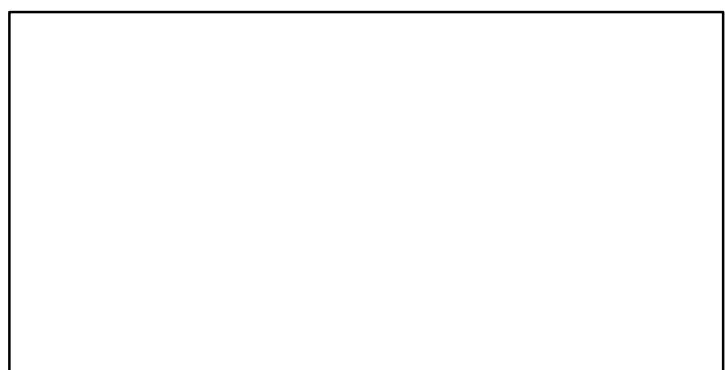
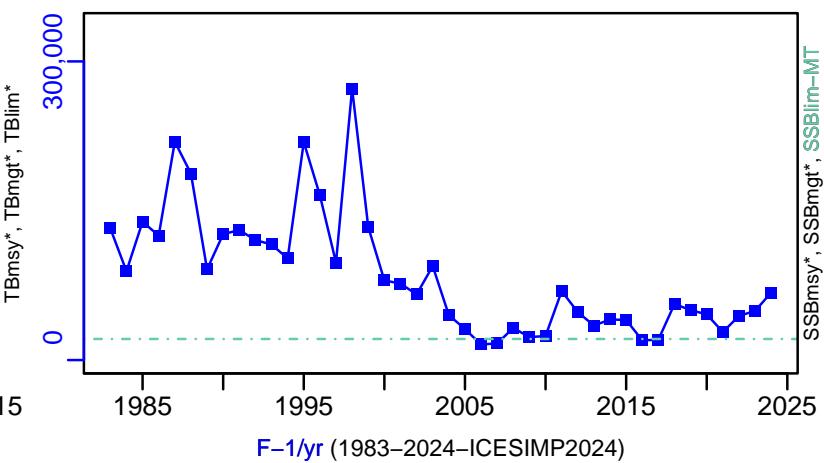
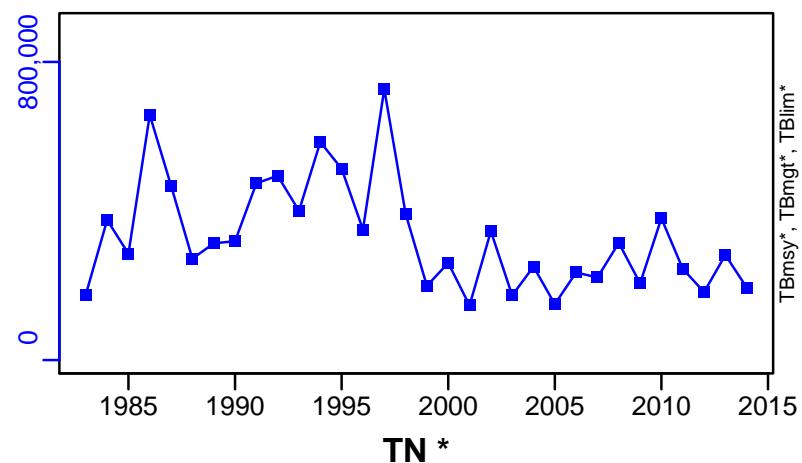
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	174,000	Both	-	
SSB	SSB-MT	2024	60,736	-	-	
TN	-	-	-	-	-	
R	R-E00	2024	32,828,956	-	0	
F	F-1/yr	2024	0.43	-	1 to 2	
ER	ER-ratio	2021	0.581	-	-	
TC	TC-MT	2024	39,653			
TL	TL-MT	2020	5220			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.274			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

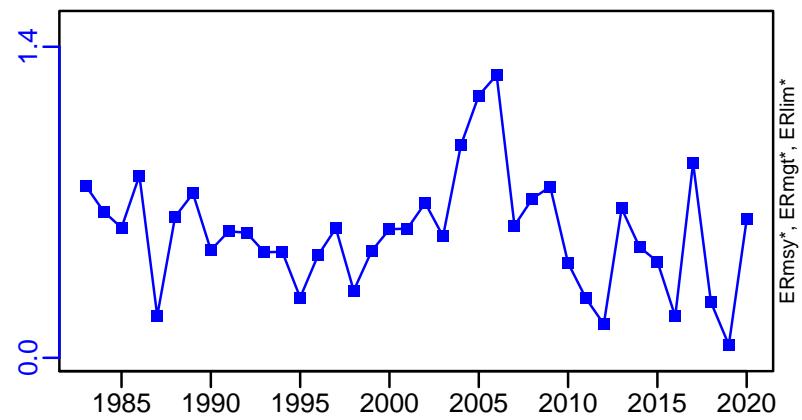
Sand eel Sandeel Area 2 [SEELNSSA2]

TB-MT (1983–2015–ICESIMP2016)

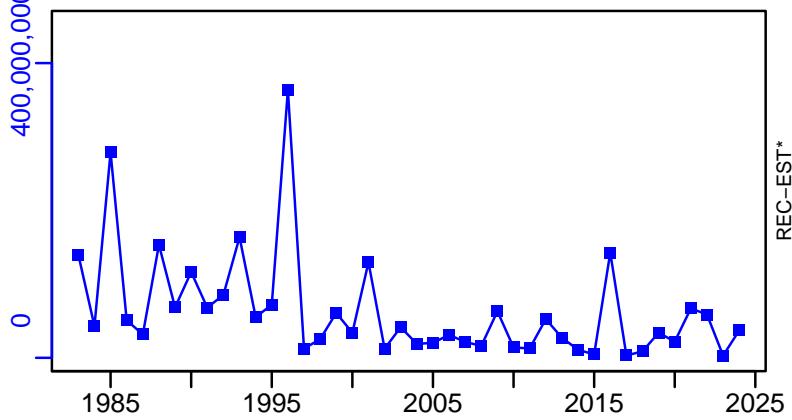
SSB-MT (1983–2024–ICESIMP2024)



ER-ratio (1983–2021–ICESIMP2021–2)



R-E00 (1983–2024–ICESIMP2024)

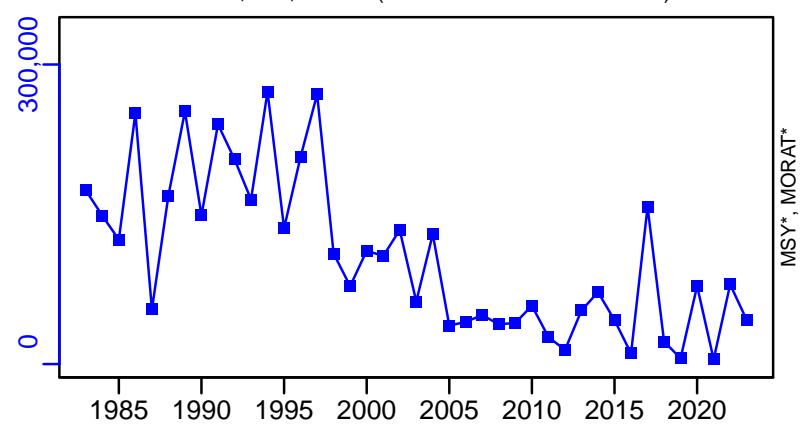


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

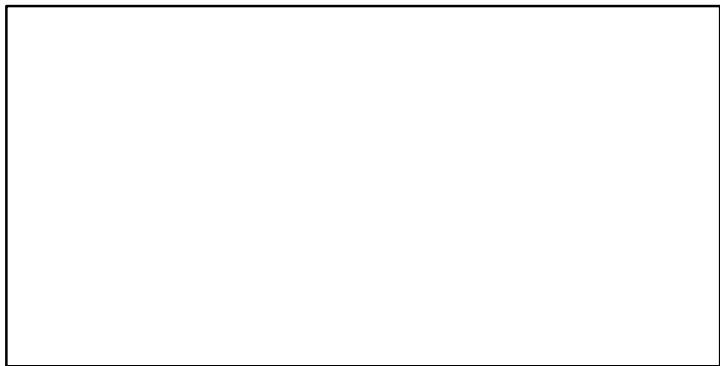
Sand eel Sandeel Area 2 [SEELNSSA2]

TC-MT, TL*, RecC* (1983–2024—ICESIMP2024)

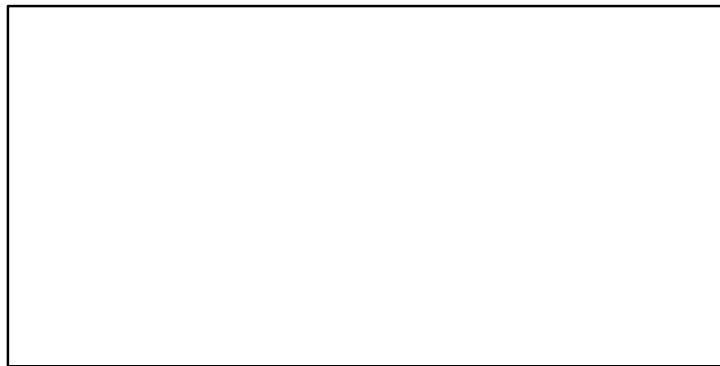
TAC*, Cpair*, Cadv*



survB*



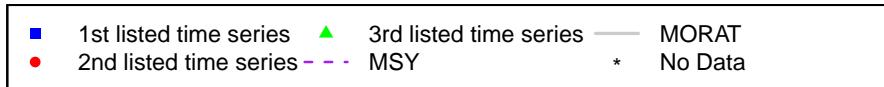
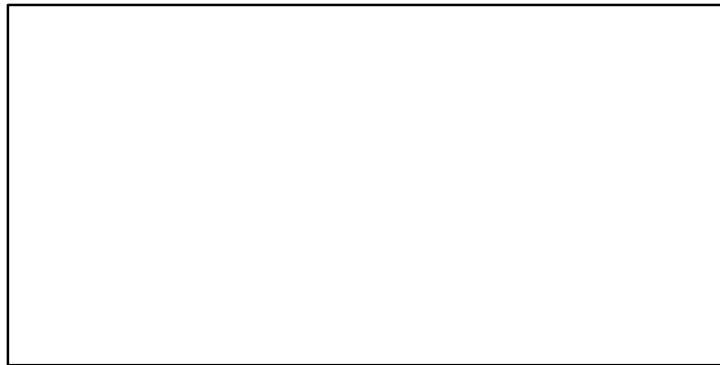
CPUE*



EFFORT*



CdivMSY*

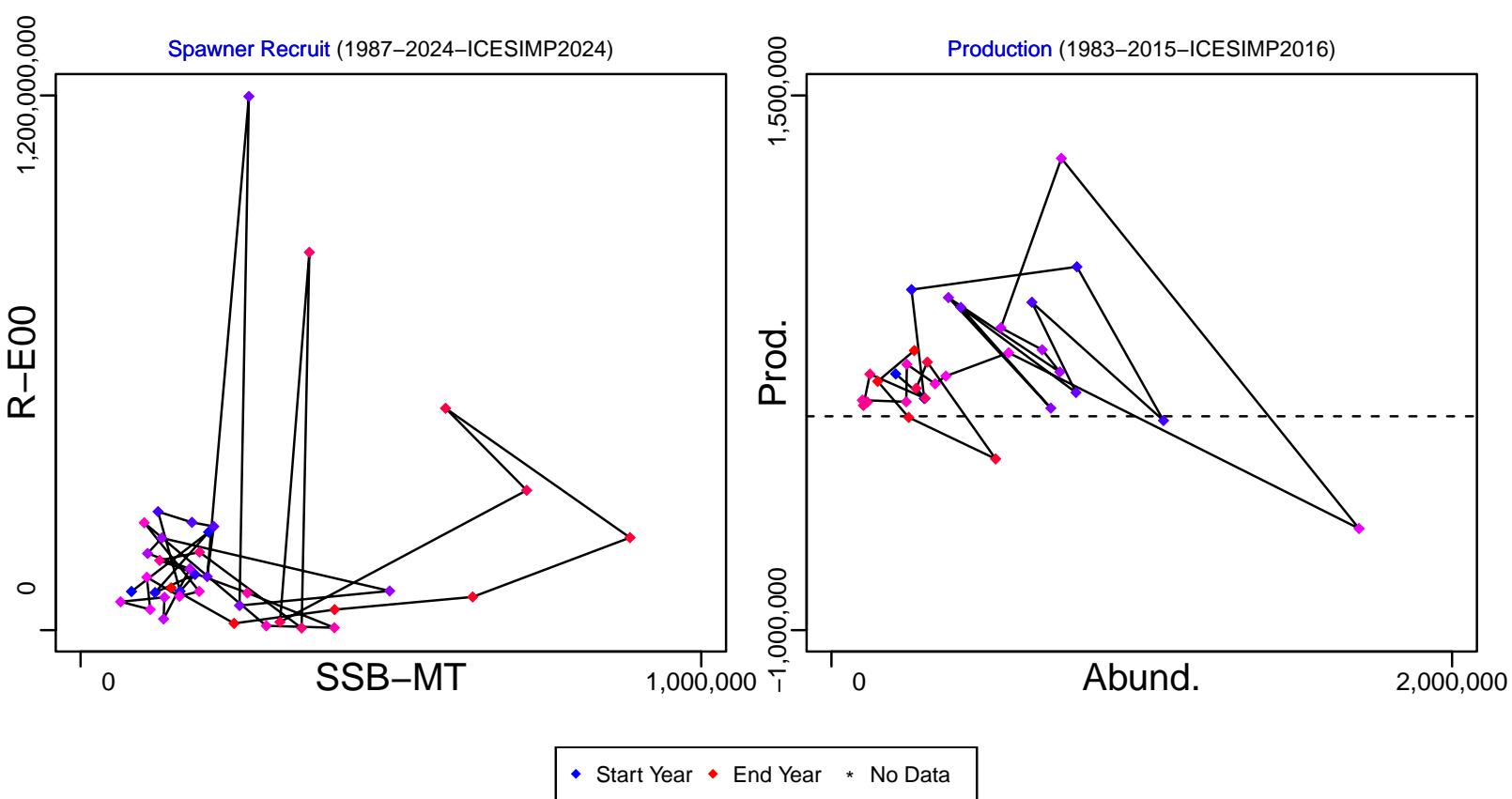


Sand eel Sandeel Area 3 [SEELNSSA3]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA3-1987-2024-ICESIMP2024
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, 2020, 2021, 2024, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	129,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2024	72,713
Flim	-	-	-
ERlim	-	-	-

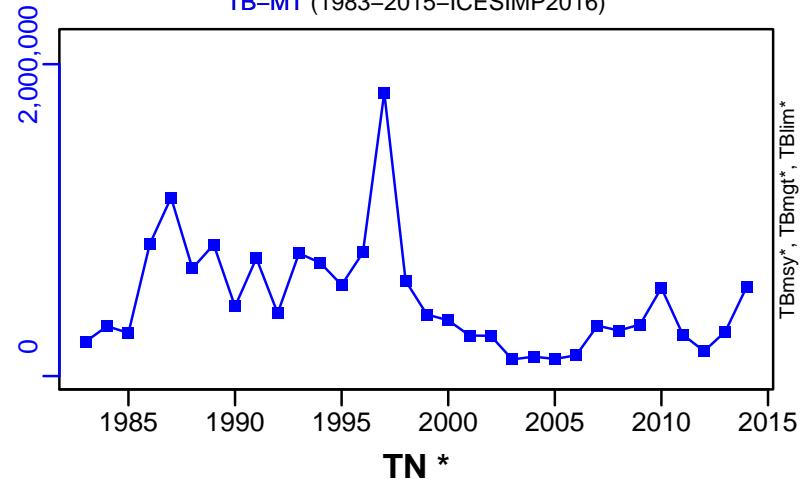
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	535,000	Both	-	
SSB	SSB-MT	2024	145,862	-	-	
TN	-	-	-	-	-	
R	R-E00	2024	94,904,752	-	0	
F	F-1/yr	2024	0.11	-	1 to 2	
ER	ER-ratio	2021	0.664	-	-	
TC	TC-MT	2024	18,955			
TL	TL-MT	2020	136,000			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.636			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

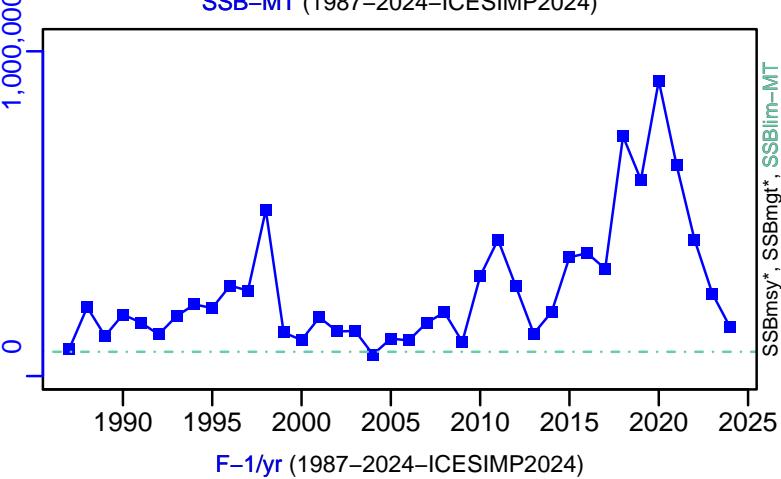
Sand eel Sandeel Area 3 [SEELNSSA3]

TB-MT (1983–2015–ICESIMP2016)

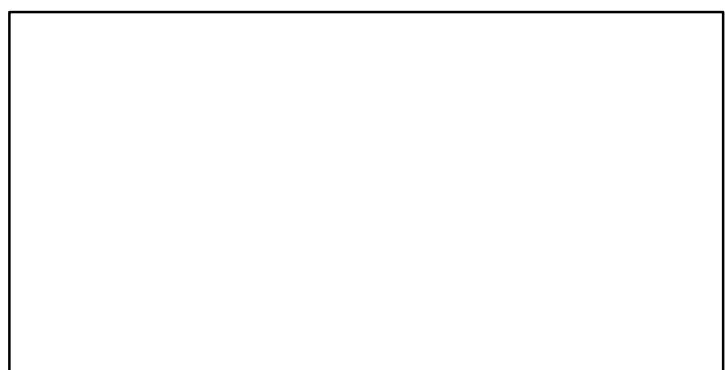
SSB-MT (1987–2024–ICESIMP2024)



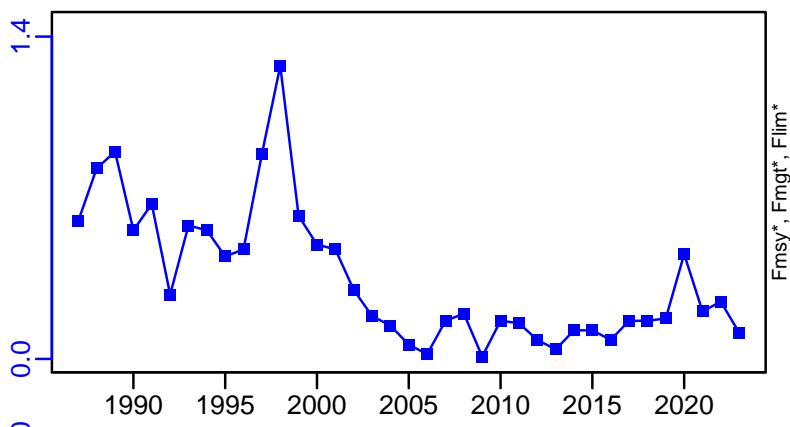
TB_{msy}* , TB_{mgf}* , TB_{lim}*



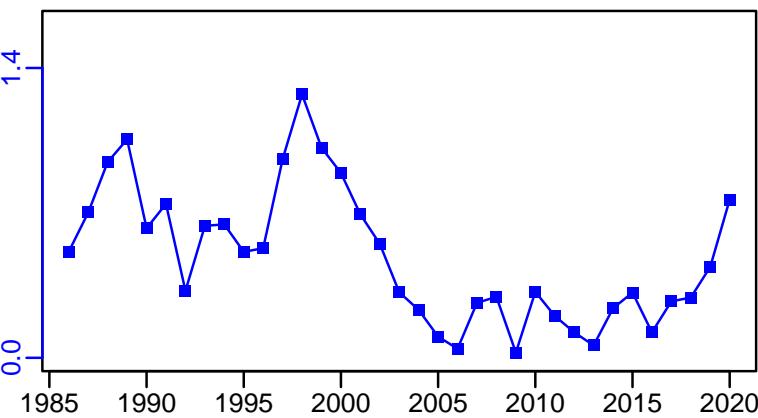
SSB_{msy}* , SSB_{mgf}* , SSB_{lim}-MT



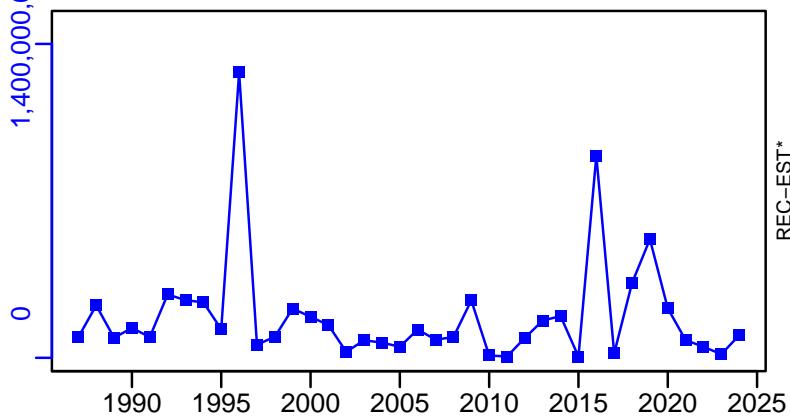
ER-ratio (1986–2021–ICESIMP2021–2)



F_{msy}* , F_{mgf}* , F_{lim}*



ER_{msy}* , ER_{mgf}* , ER_{lim}*



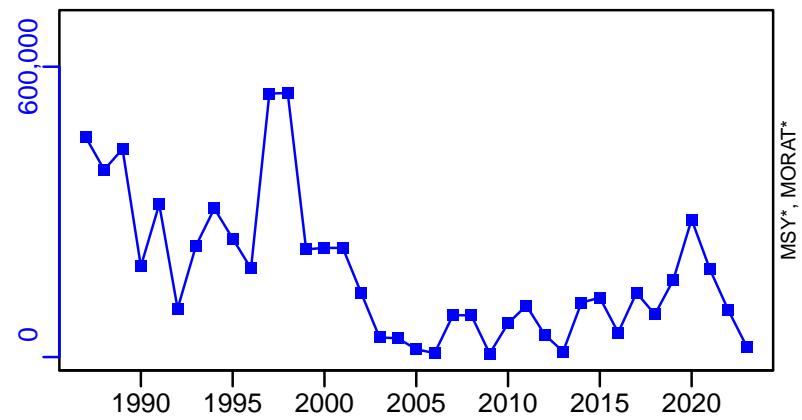
REC-EST*

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

Sand eel Sandeel Area 3 [SEELNSSA3]

TC-MT, TL*, RecC* (1987–2024—ICESIMP2024)

TAC*, Cpair*, Cadv*



survB*

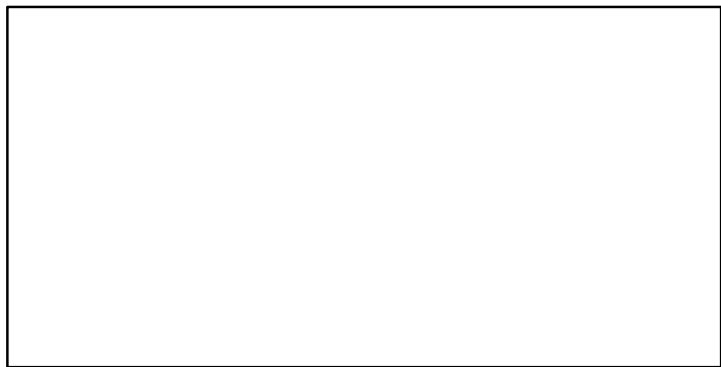
MSY*, MORAT*



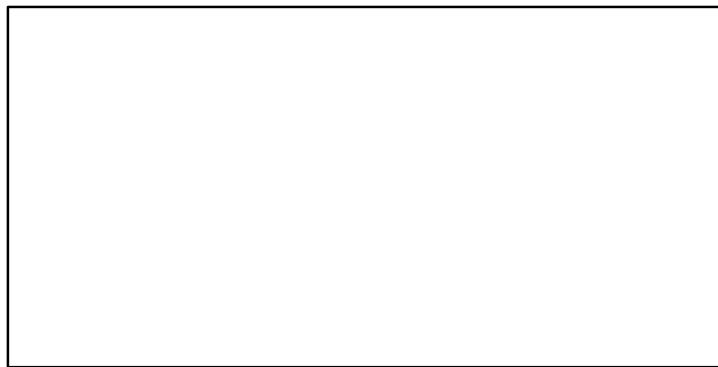
CPUE*



EFFORT*



CdivMSY*



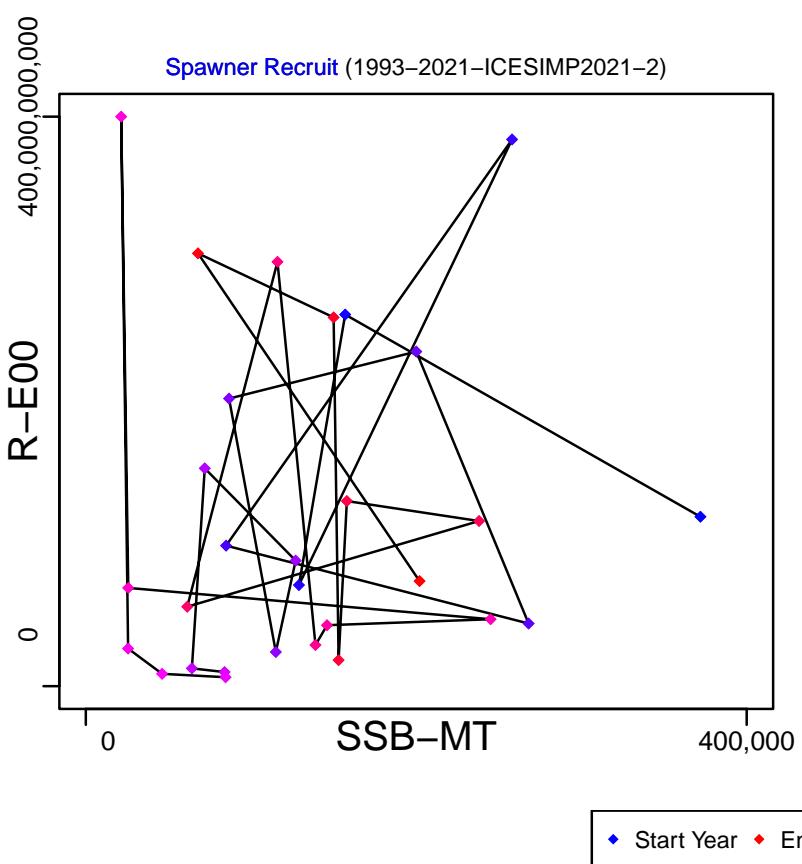
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Sand eel Sandeel Area 4 [SEELNSSA4]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA4-1993-2021-ICESIMP2021-2
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, 2020, 2021

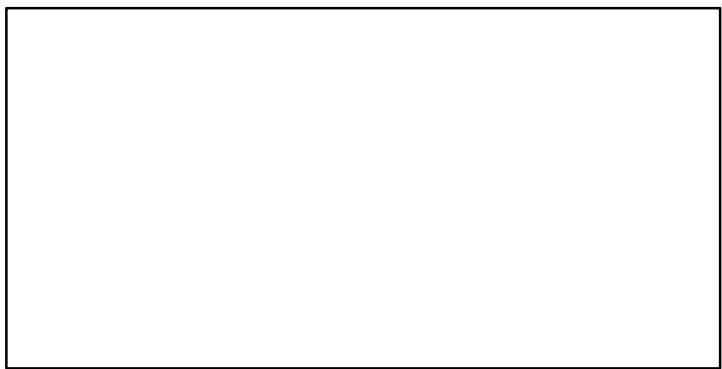
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	102,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	48,000
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2021	202,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	7.38×10^{10}	-	0	
F	F-1/yr	2020	0.053	-	-	
ER	ER-ratio	2021	0.046	-	-	
TC	TC-MT	2021	19,600			
TL	TL-MT	2020	6600			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.912			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

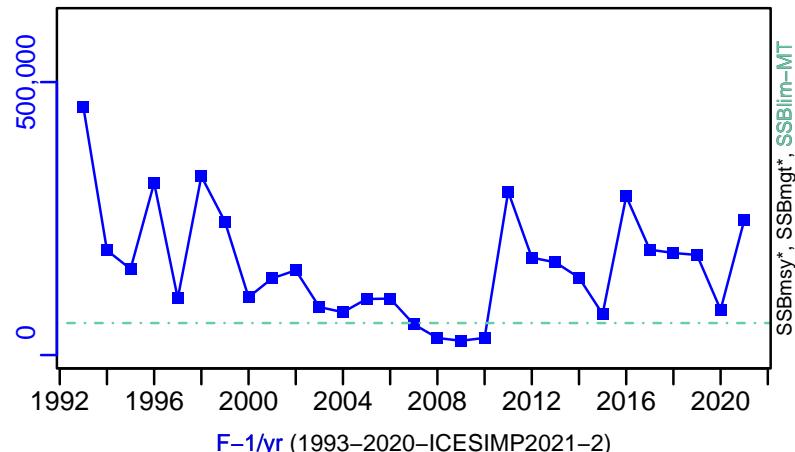
Kobe MSY***Kobe MGT***

Sand eel Sandeel Area 4 [SEELNSSA4]

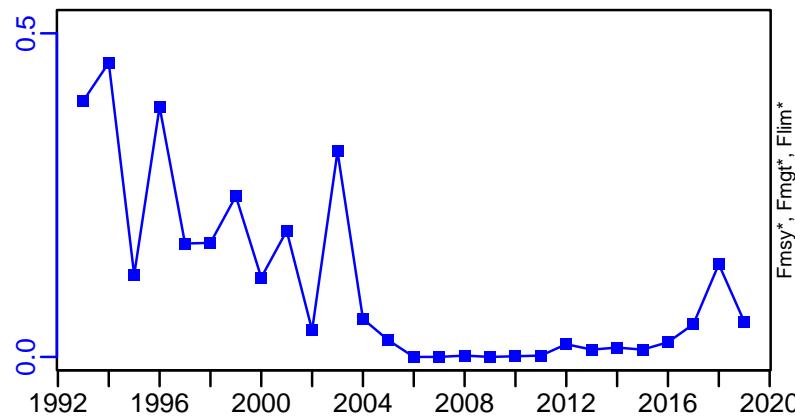
TB*



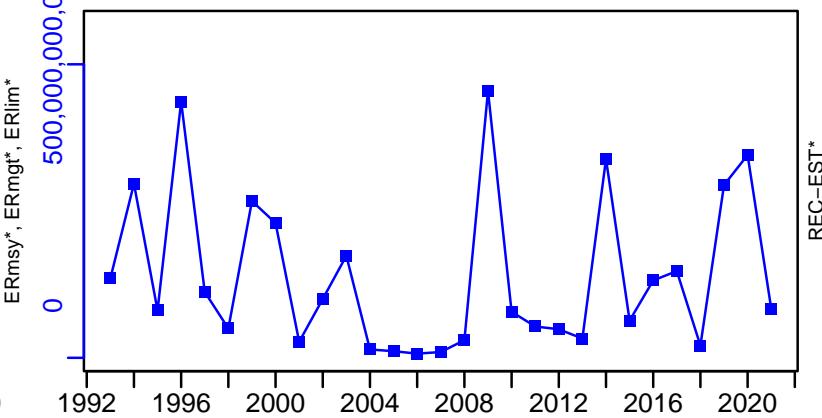
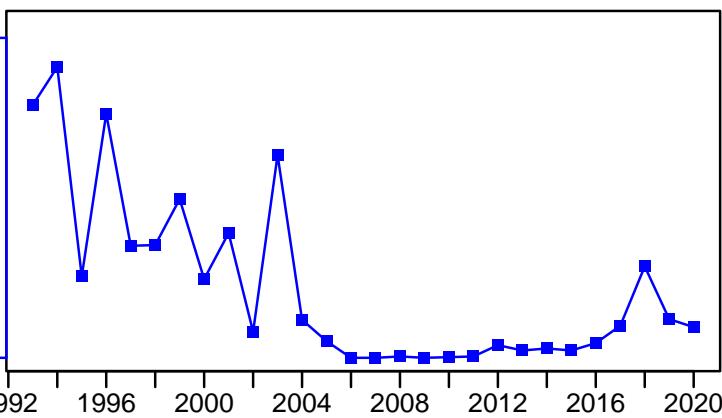
SSB-MT (1993–2021–ICESIMP2021–2)



TN *



ER-ratio (1993–2021–ICESIMP2021–2)

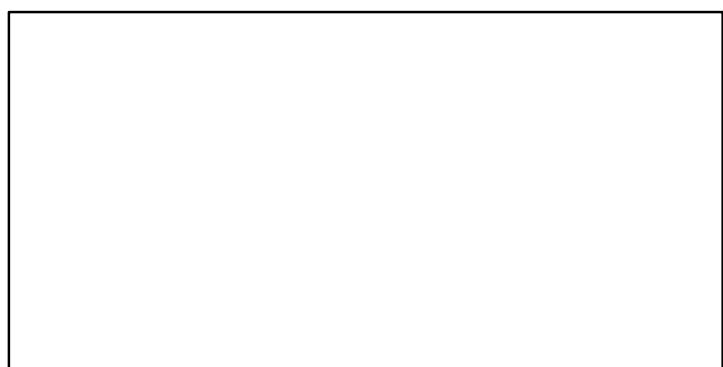
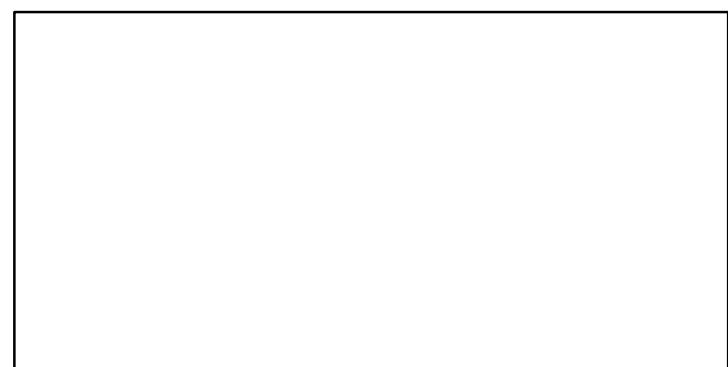
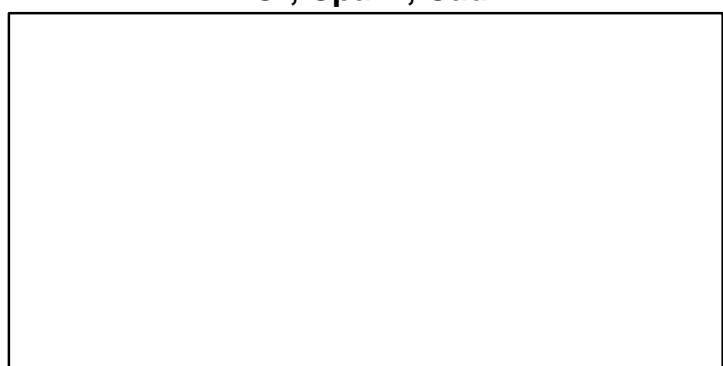
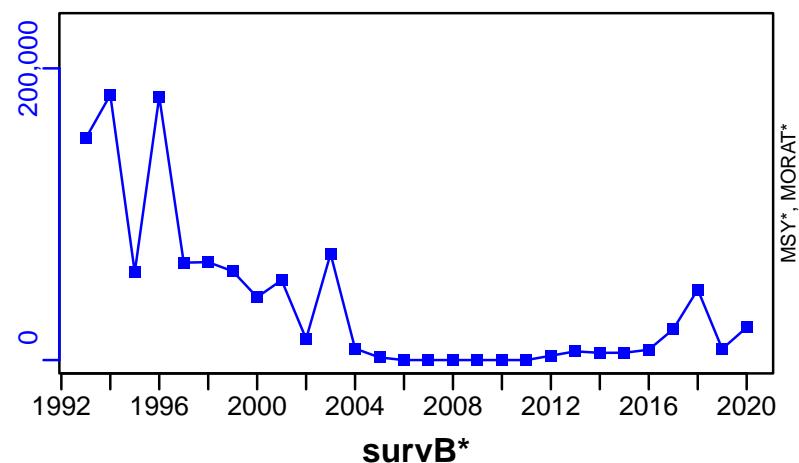


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

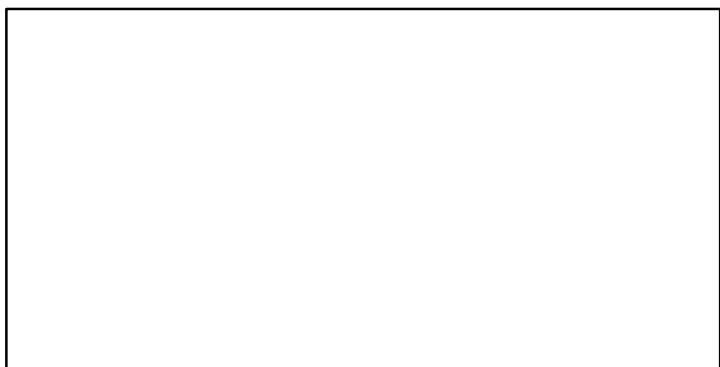
Sand eel Sandeel Area 4 [SEELNSSA4]

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

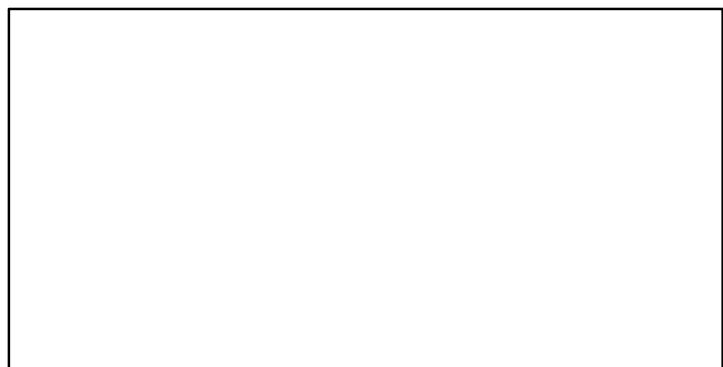
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



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

Sand eel Sandeel Area 5 [SEELNSSA5]

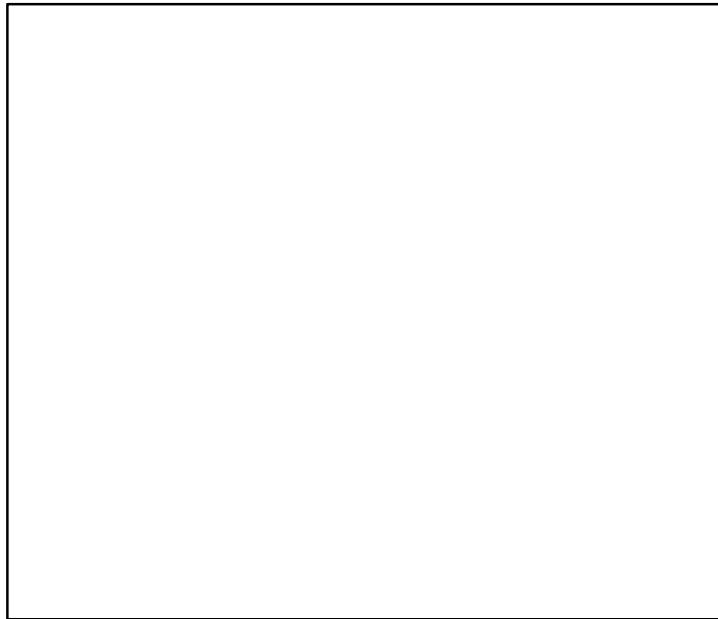
Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA5-1982-2020-ICESIMP2021-2
Area	Sandeel Area 5
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2016, 2018, 2020, 2015, 2015

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

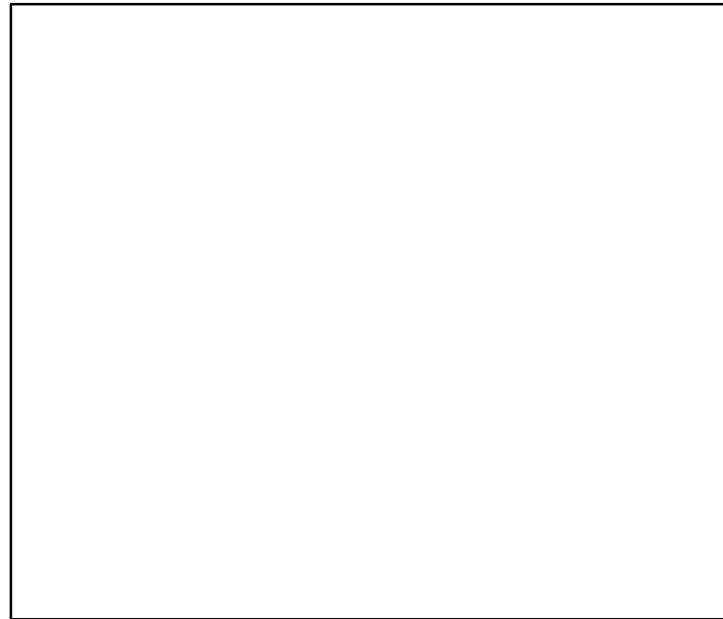
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	0		
TL	TL-MT	2015	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel Sandeel Area 5 [SEELNSSA5]

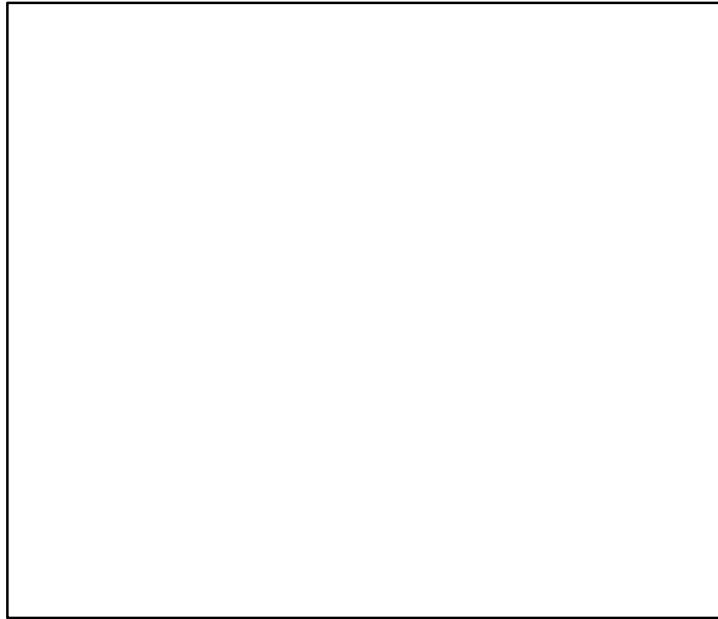
Kobe MSY*



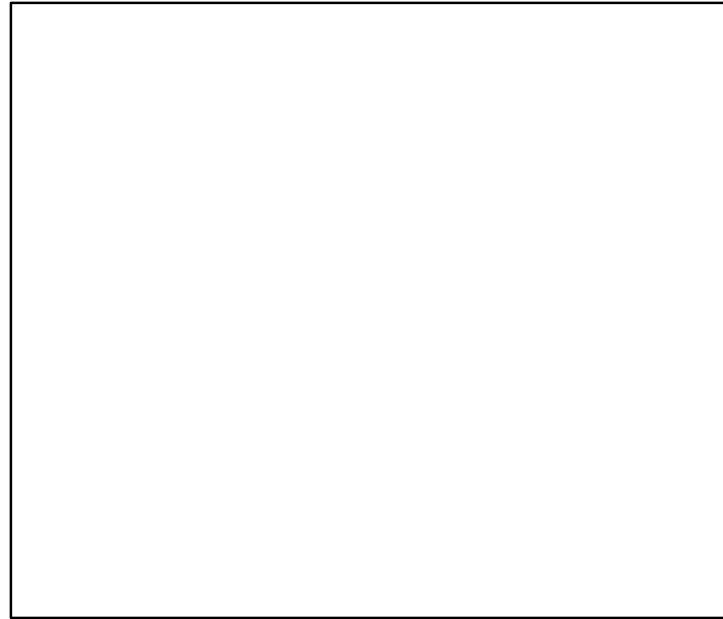
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Sand eel Sandeel Area 5 [SEELNSSA5]

TB*



SSB*



TN *



F*



ER*



Recruits*

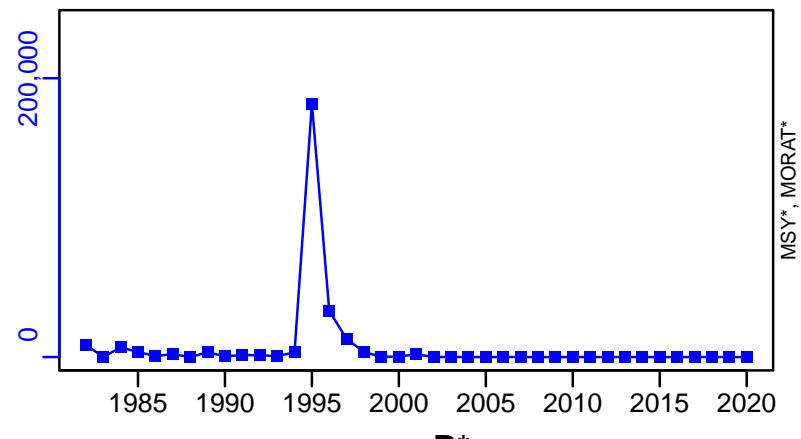


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

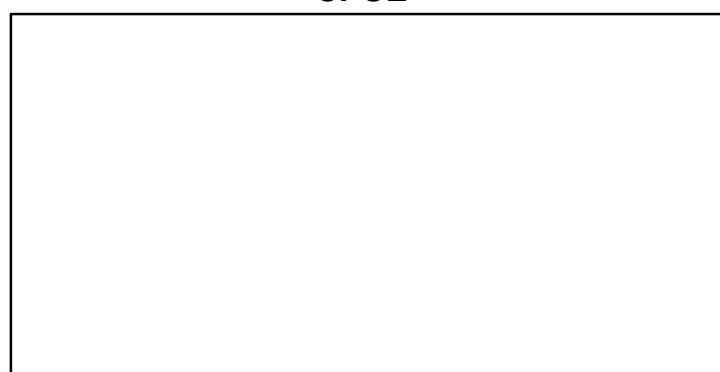
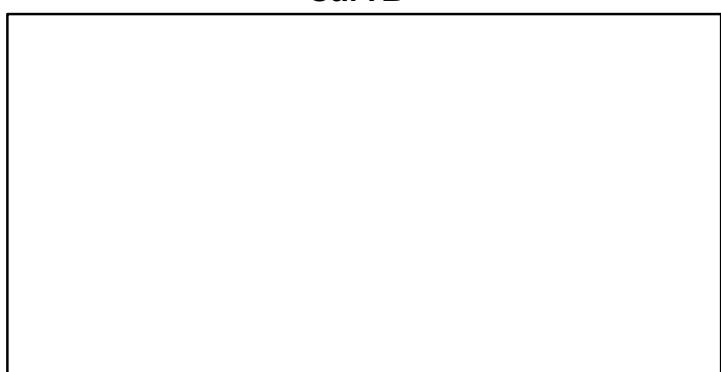
Sand eel Sandeel Area 5 [SEELNSSA5]

TC-MT, TL*, RecC* (1982–2020–ICESIMP2021–2)

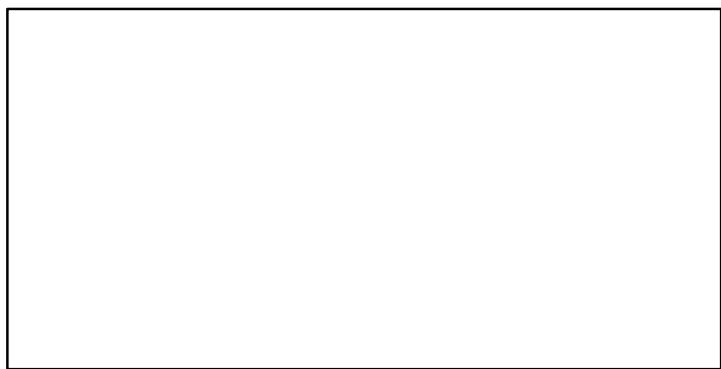
TAC*, Cpair*, Cadv*



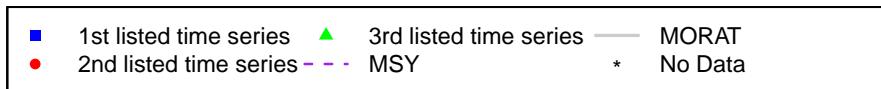
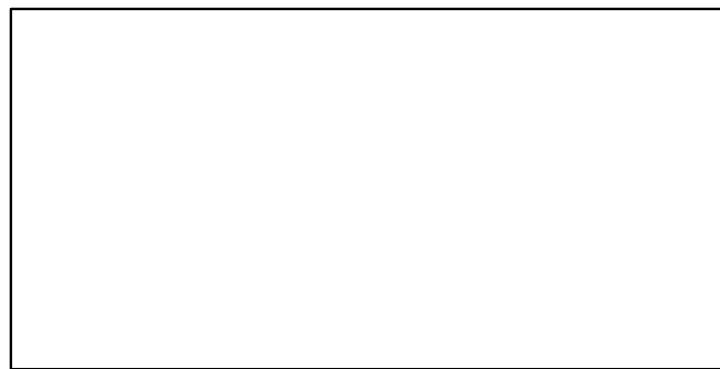
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



Sand eel Sandeel Area 6 [SEELNSSA6]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA6-1982-2020-ICESIMP2021-2
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	2020, 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	2020	177		
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*

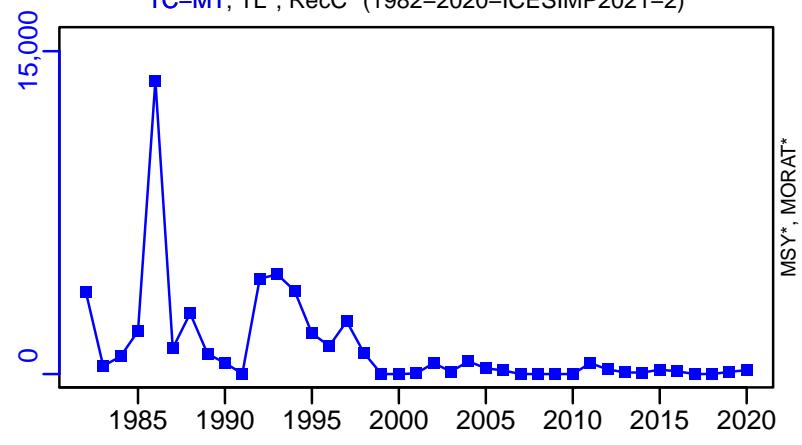


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sand eel Sandeel Area 6 [SEELNSSA6]

TC-MT, TL*, RecC* (1982–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



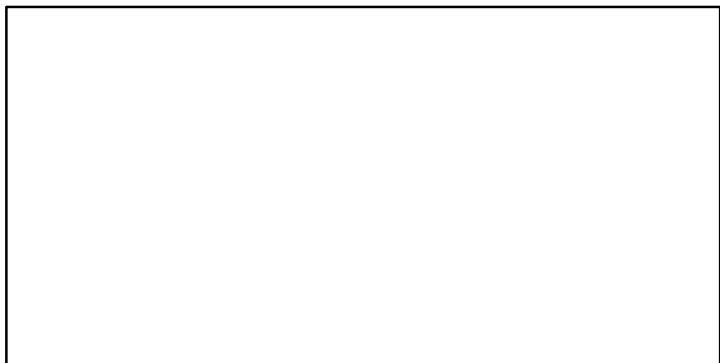
survB*



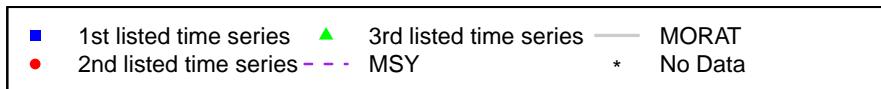
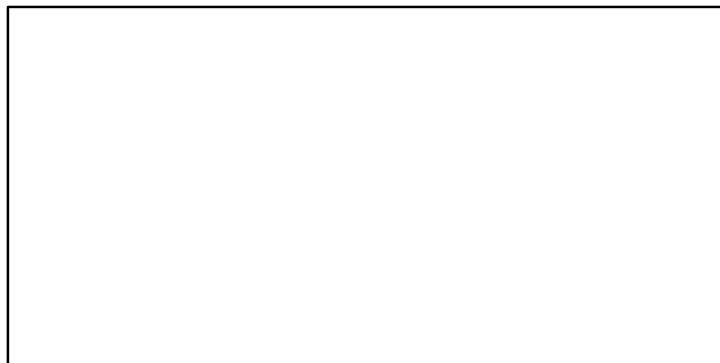
CPUE*



EFFORT*



CdivMSY*



Sand eel Sandeel Area 7 [SEELNSSA7]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA7-1982-2020-ICESIMP2021-2
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	2020, 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	2020	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*



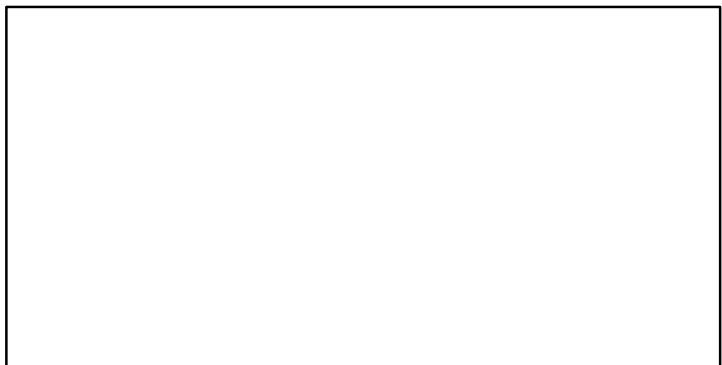
TN *



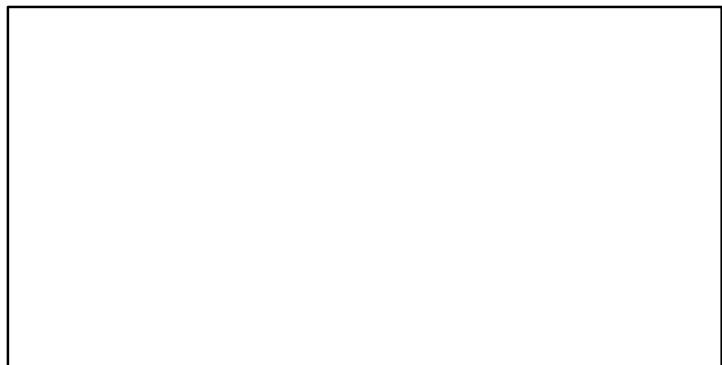
F*



ER*



Recruits*

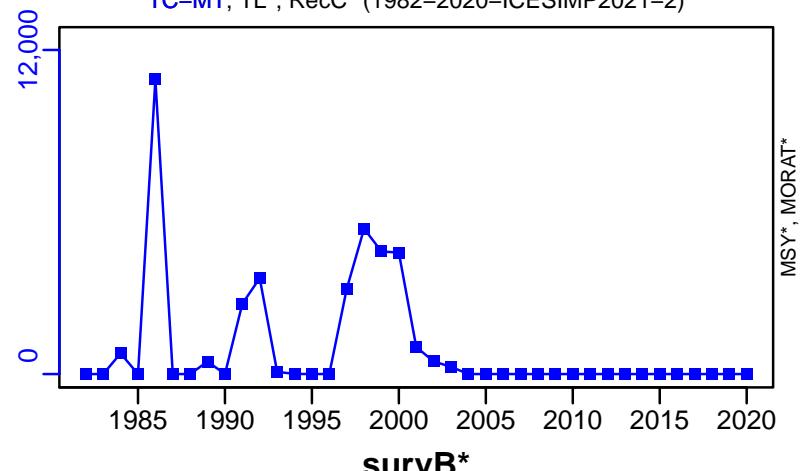


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

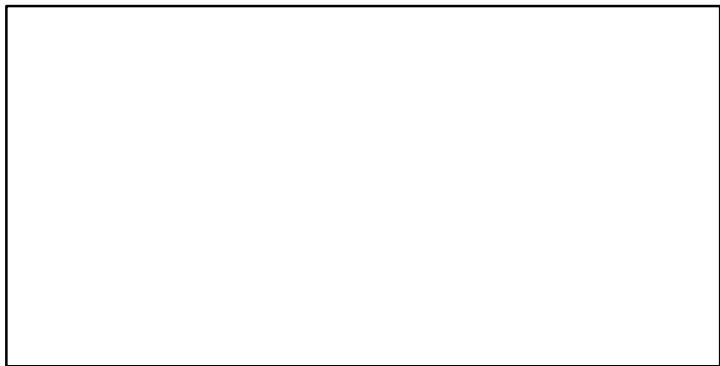
Sand eel Sandeel Area 7 [SEELNSSA7]

TC-MT, TL*, RecC* (1982–2020–ICESIMP2021–2)

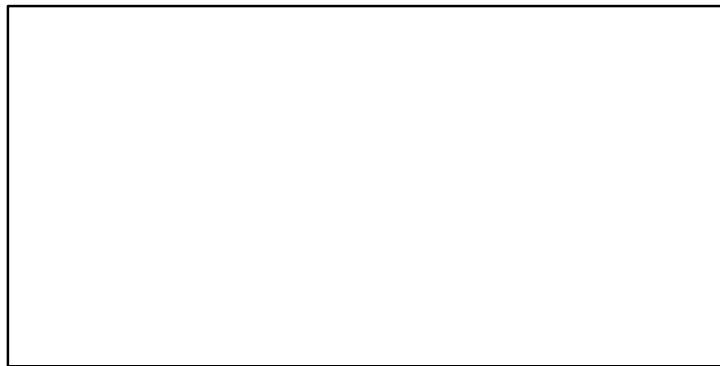
TAC*, Cpair*, Cadv*



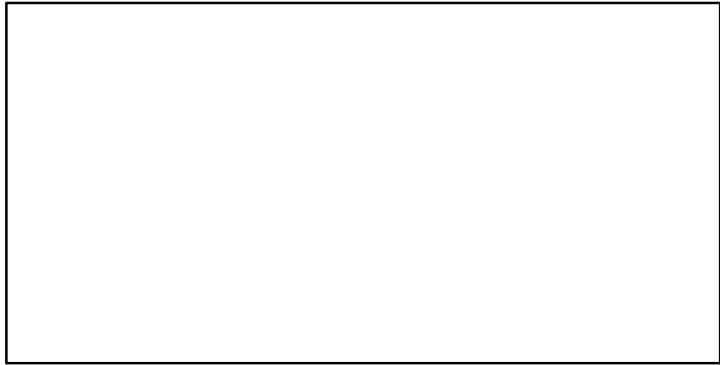
survB*



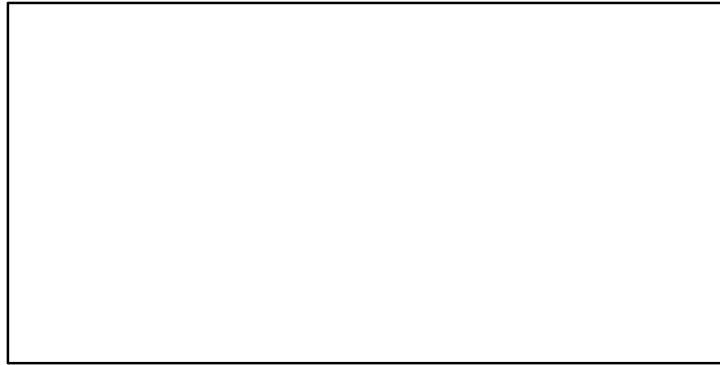
CPUE*



EFFORT*



CdivMSY*



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

Sandeel West of Scotland [SEELVla]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELVla-1970-2020-ICESIMP2021-2
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, 2020

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	2.69		
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*



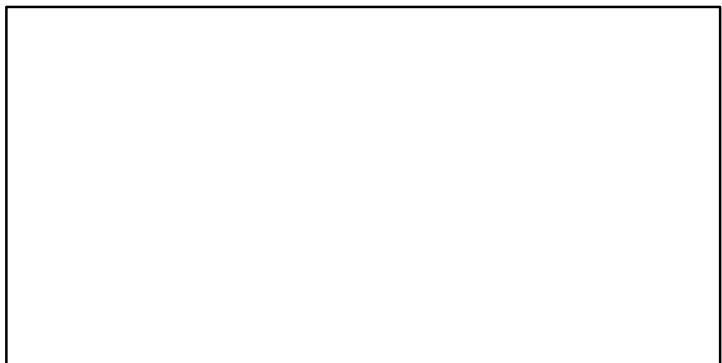
TN *



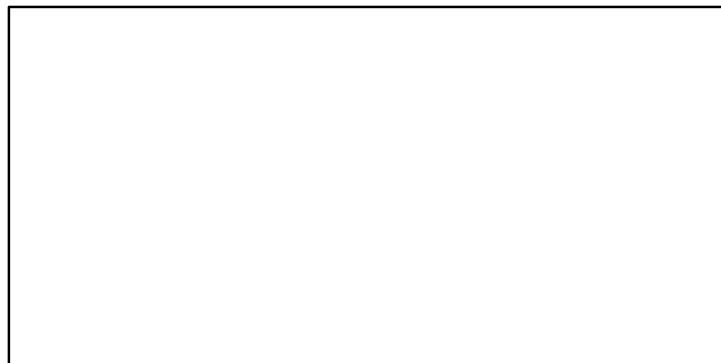
F*



ER*



Recruits*

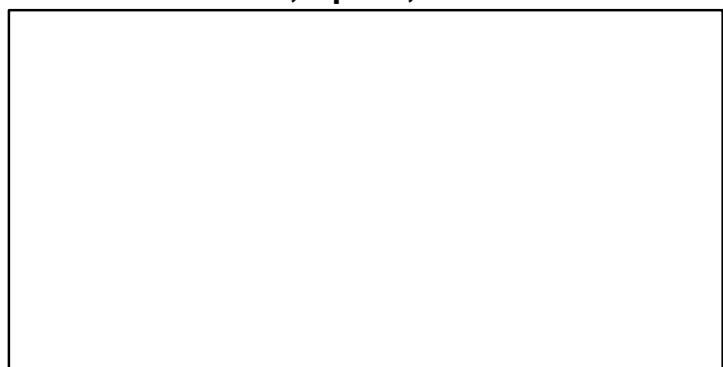
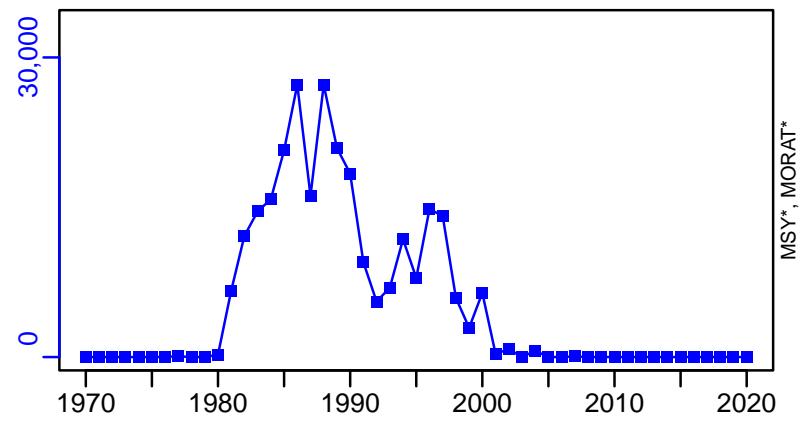


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

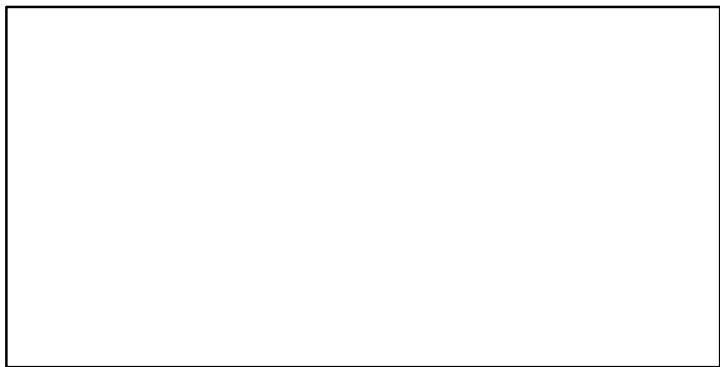
Sand eel West of Scotland [SEELVla]

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

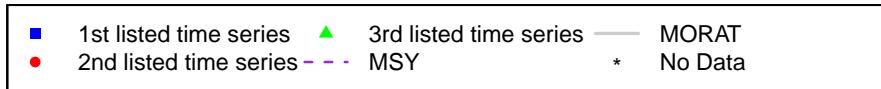
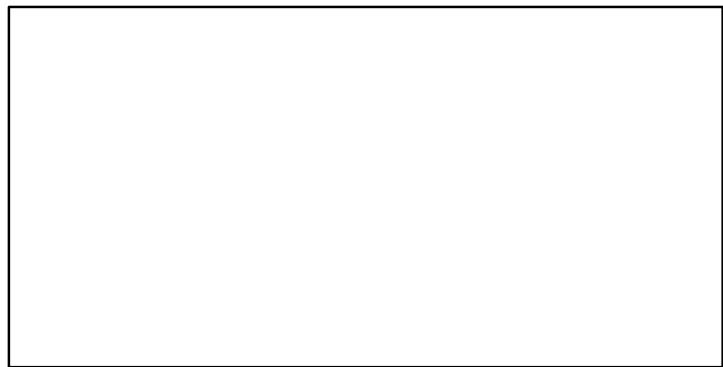
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



Smalleyed ray ICES 7de [SERAYVIIde]

Metadata	
Scientific Name	Raja microcellata
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*

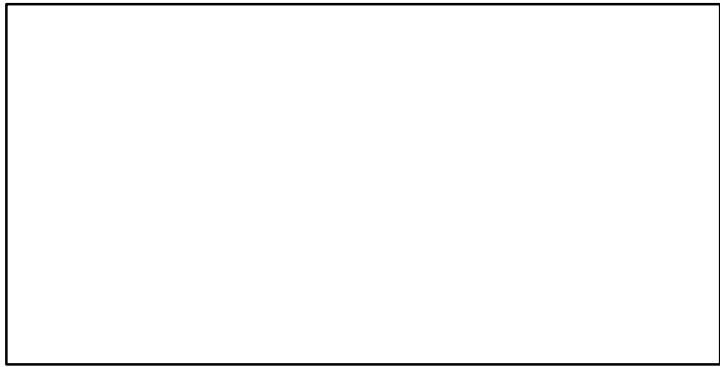
Kobe MGT*

Spawner Recruit*

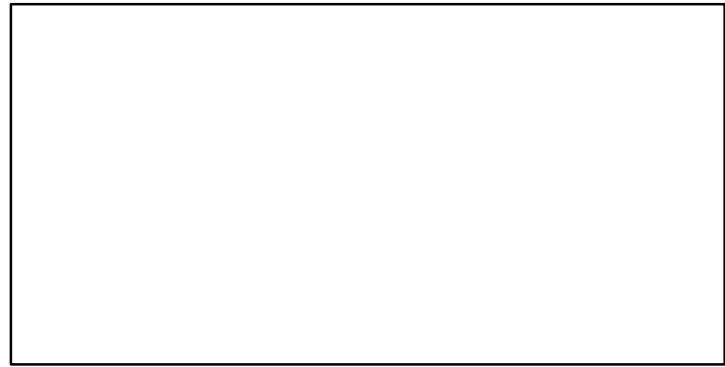
Production*

◆ Start Year ♦ End Year * No Data

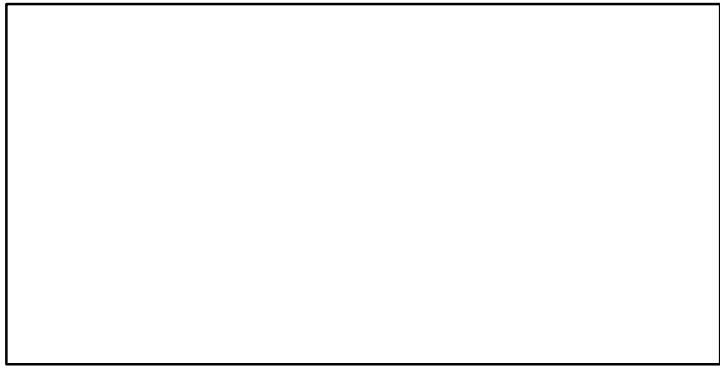
TB*



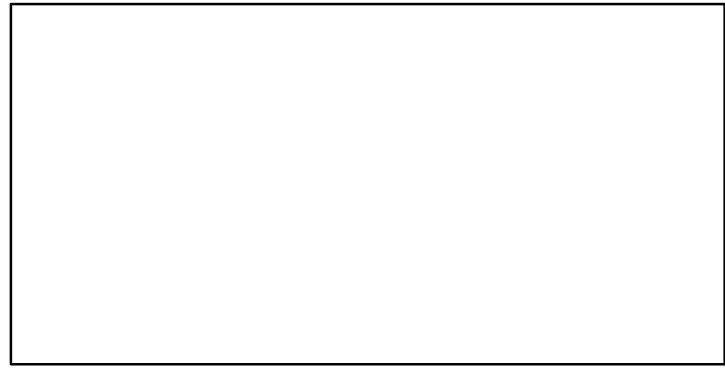
SSB*



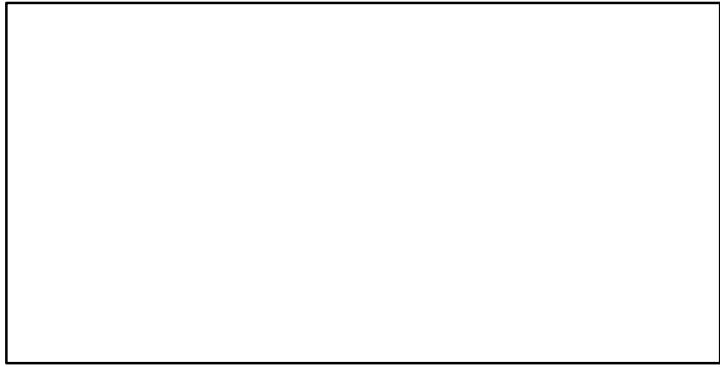
TN *



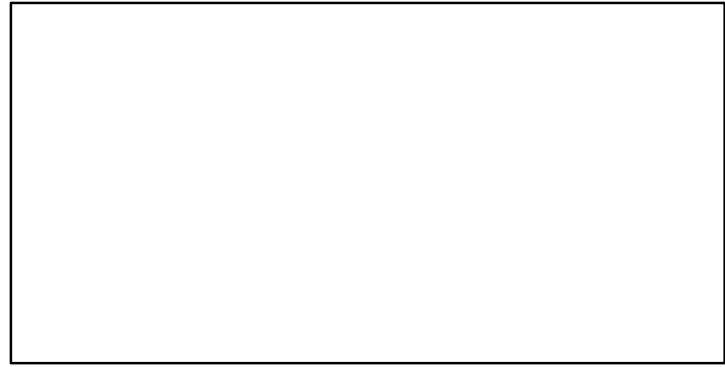
F*



ER*



Recruits*

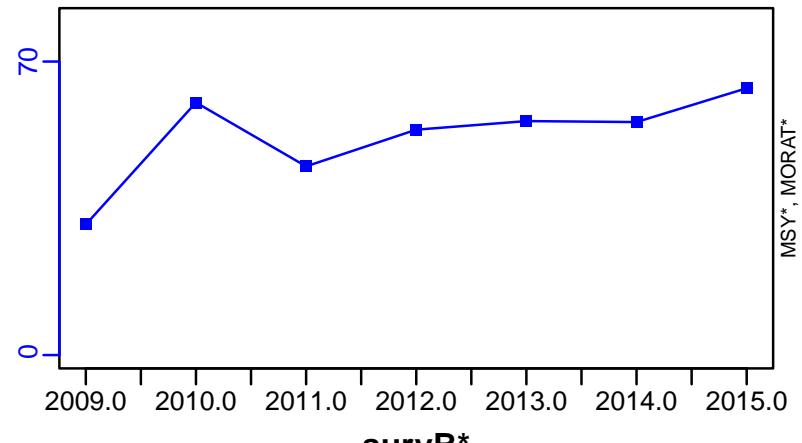


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

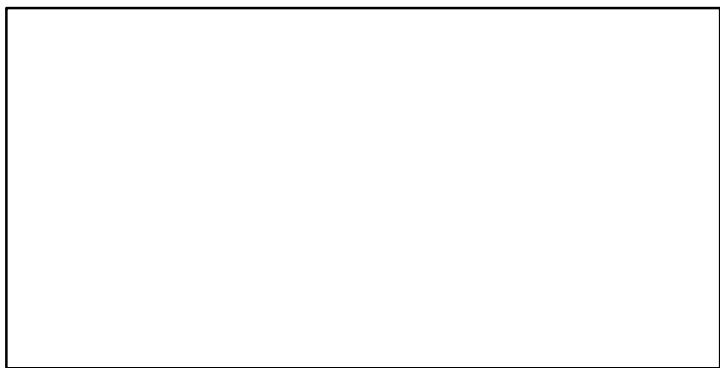
Smalleyed ray ICES 7de [SERAYVIIde]

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

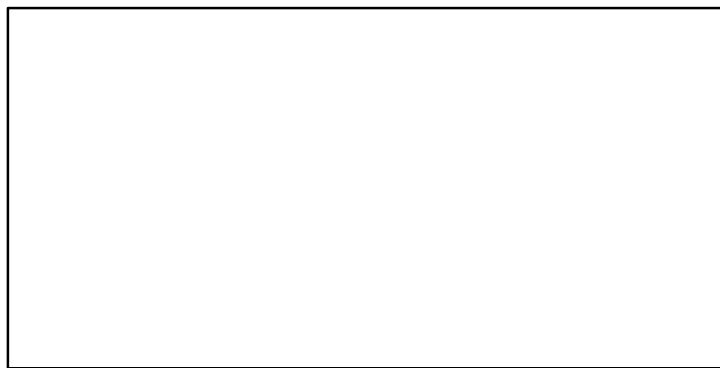
TAC*, Cpair*, Cadv*



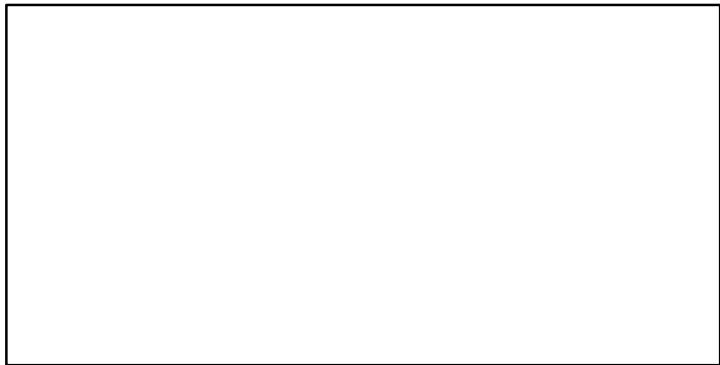
survB*



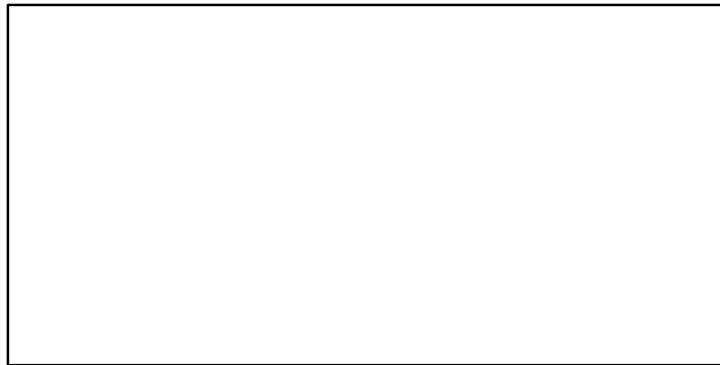
CPUE*



EFFORT*



CdivMSY*



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

Smalleyed ray Celtic Sea [SERAYVIIIf-g]

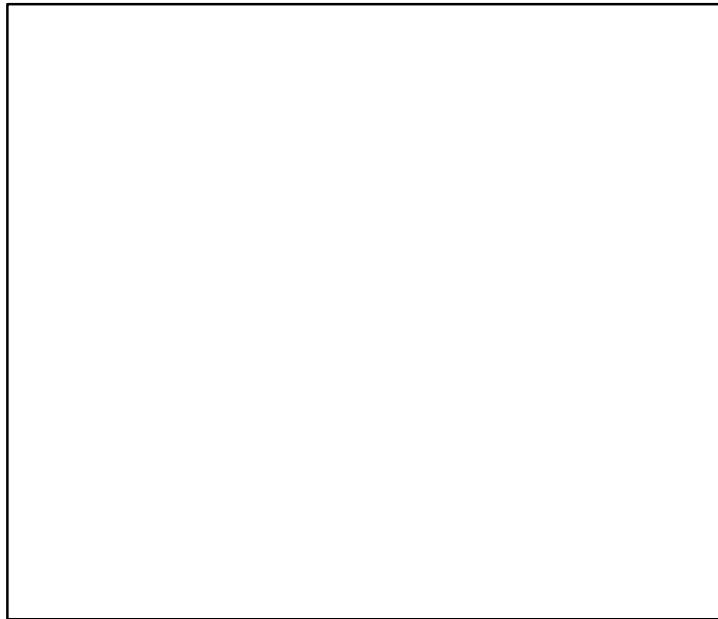
Metadata	
Scientific Name	Raja microcellata
Current Assess ID	WGEF-SERAYVIIIf-g-1993-2015-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

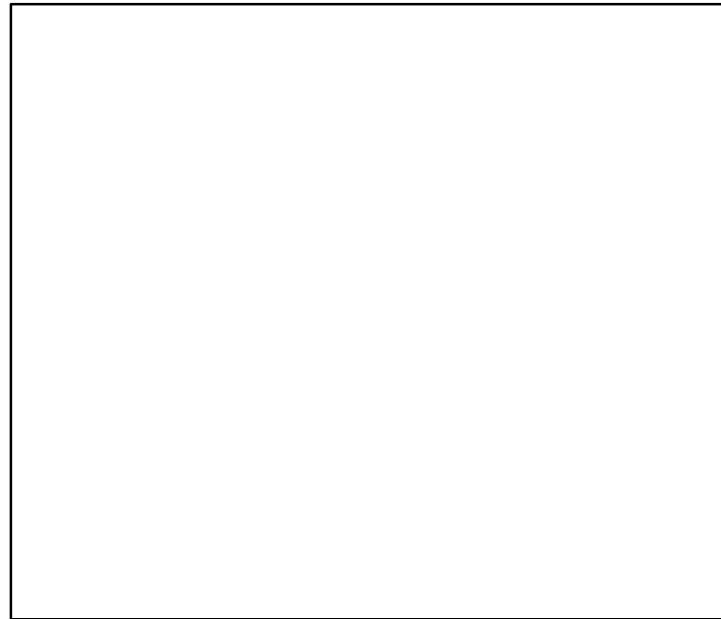
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	2.03	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	208		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Smalleyed ray Celtic Sea [SERAYVIIIf-g]

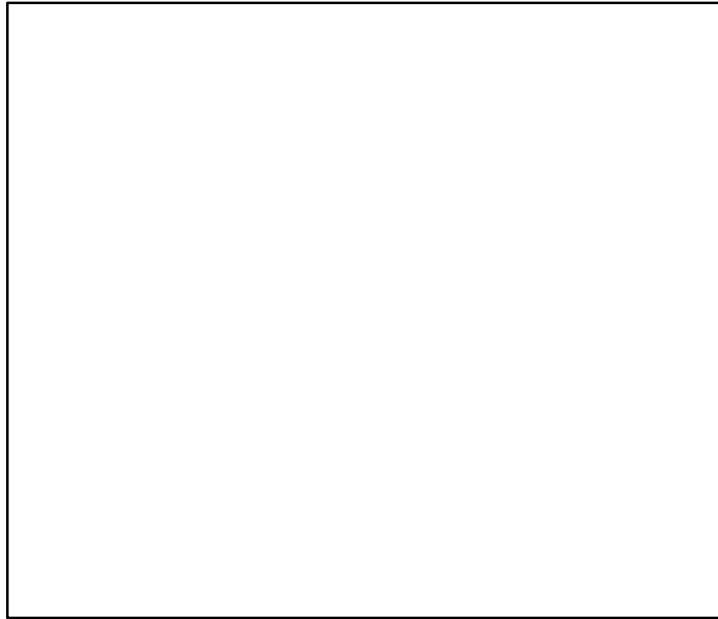
Kobe MSY*



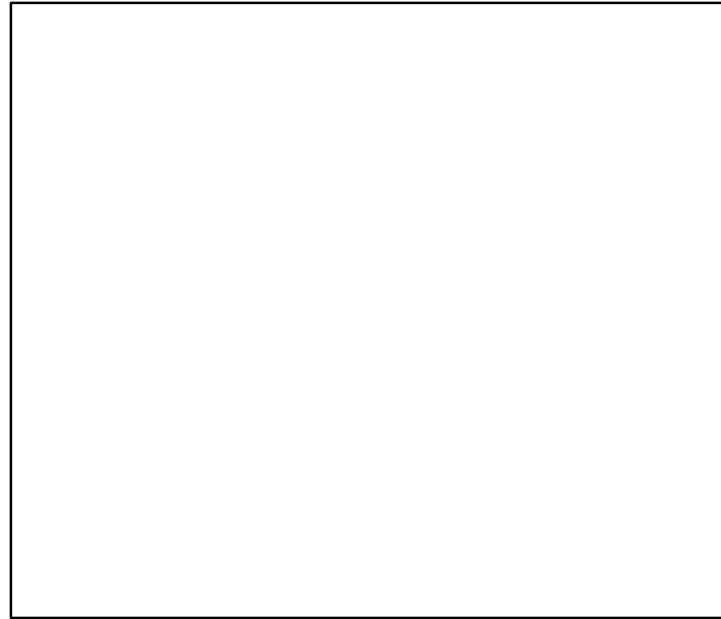
Kobe MGT*



Spawner Recruit*



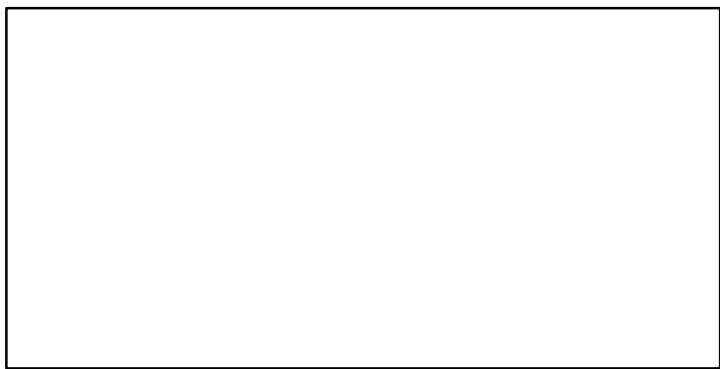
Production*



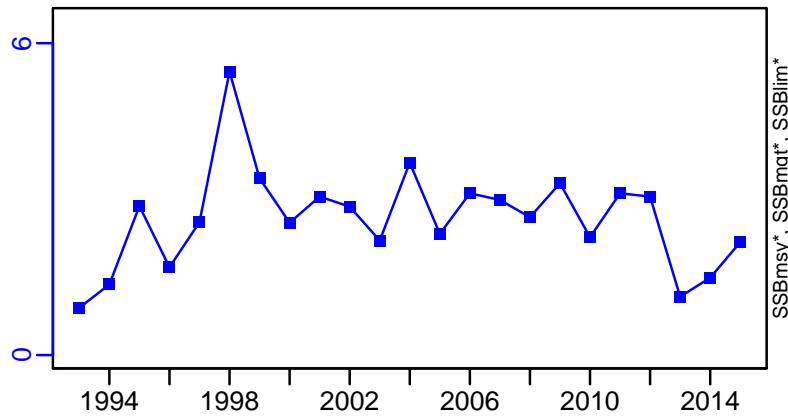
◆ Start Year ♦ End Year * No Data

Smalleyed ray Celtic Sea [SERAYVIIIf-g]

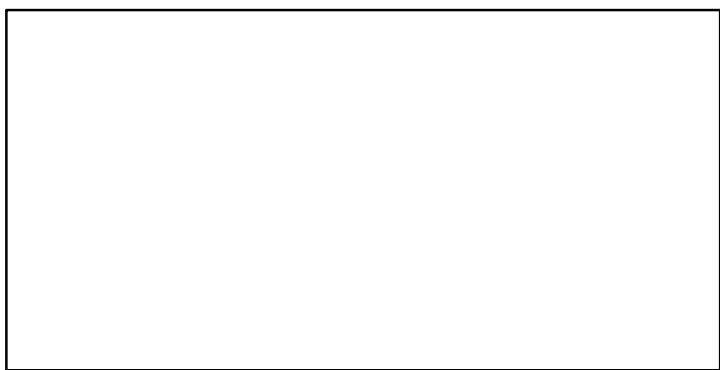
TB*



SSB-index (1993–2015–ICESIMP2018)



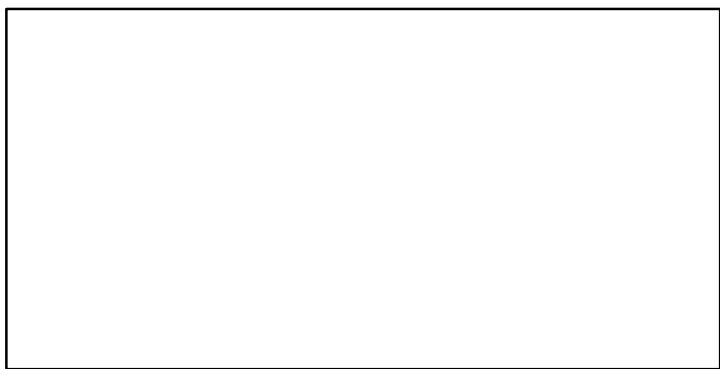
TN *



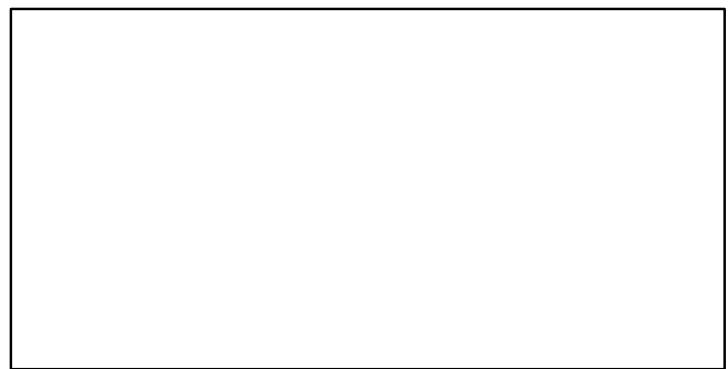
F*



ER*



Recruits*

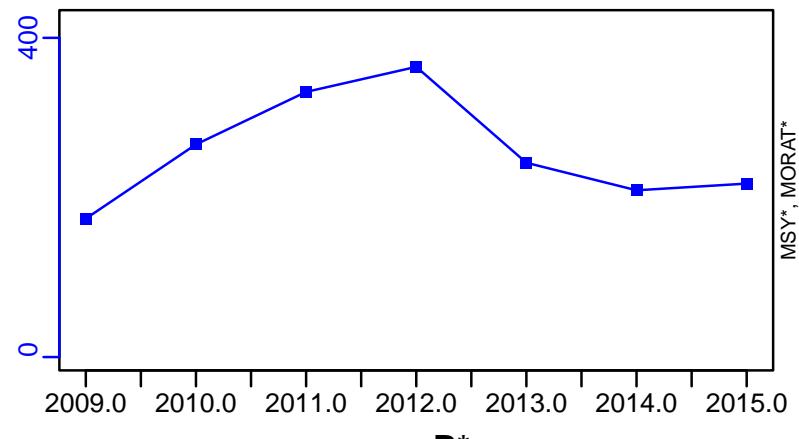


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Smalleyed ray Celtic Sea [SERAYVIIIf-g]

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

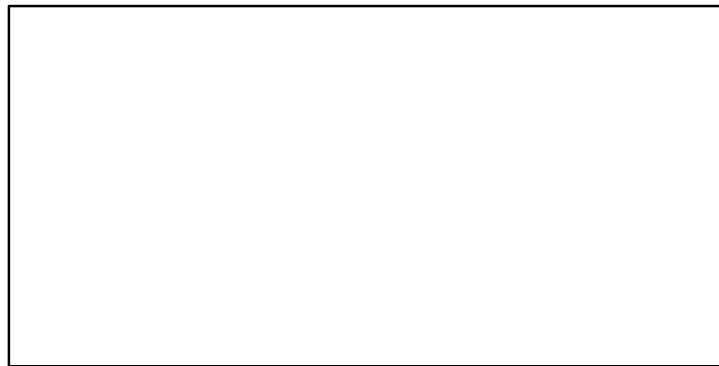
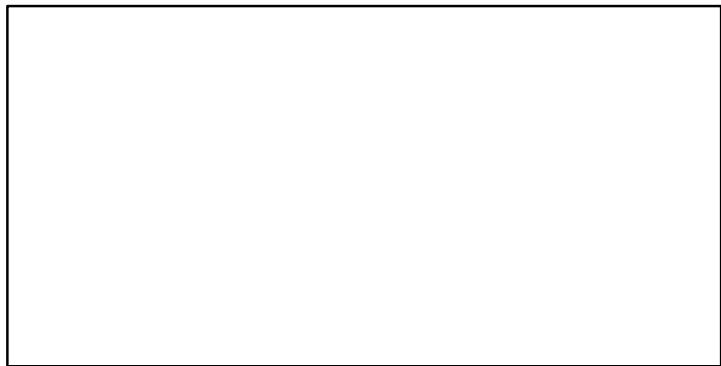
TAC*, Cpair*, Cadv*



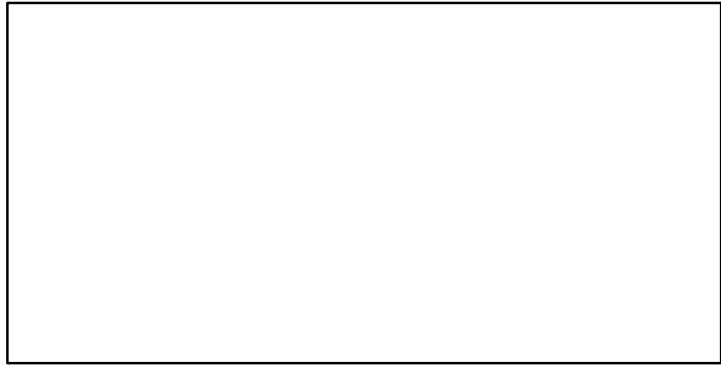
survB*

MSY*, MORAT*

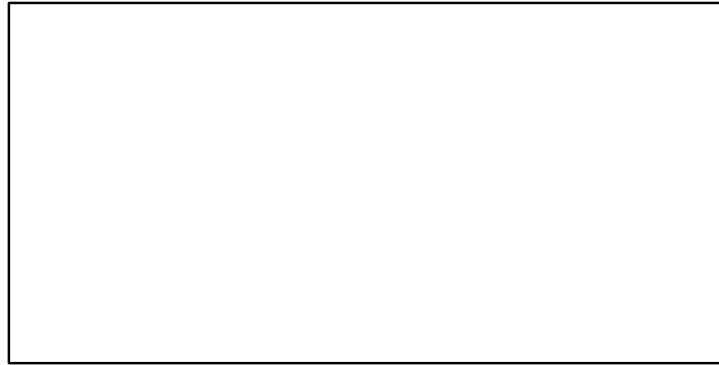
CPUE*



EFFORT*



CdivMSY*



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

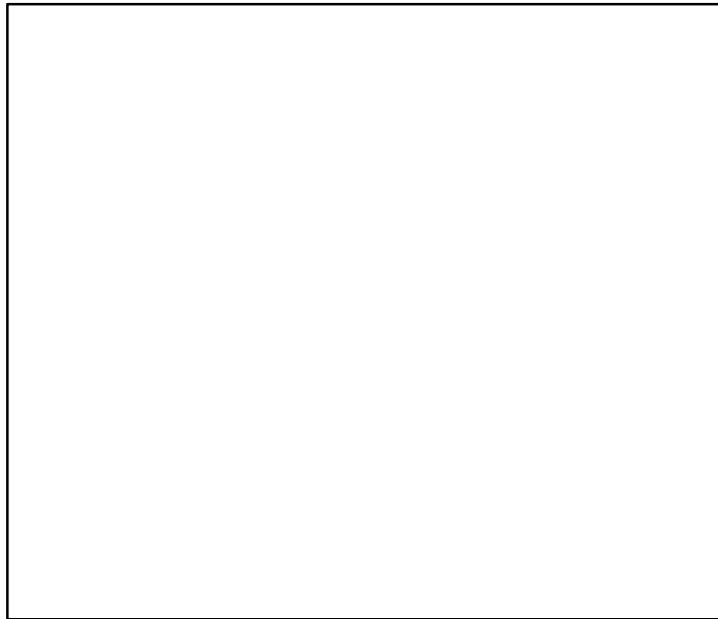
Shagreen ray ICES 6-7 [SGRAYVI-VII]

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

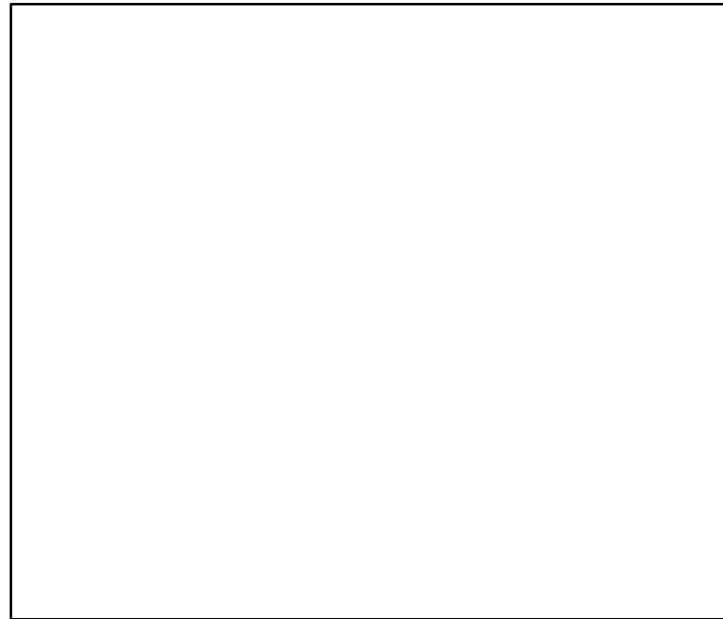
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

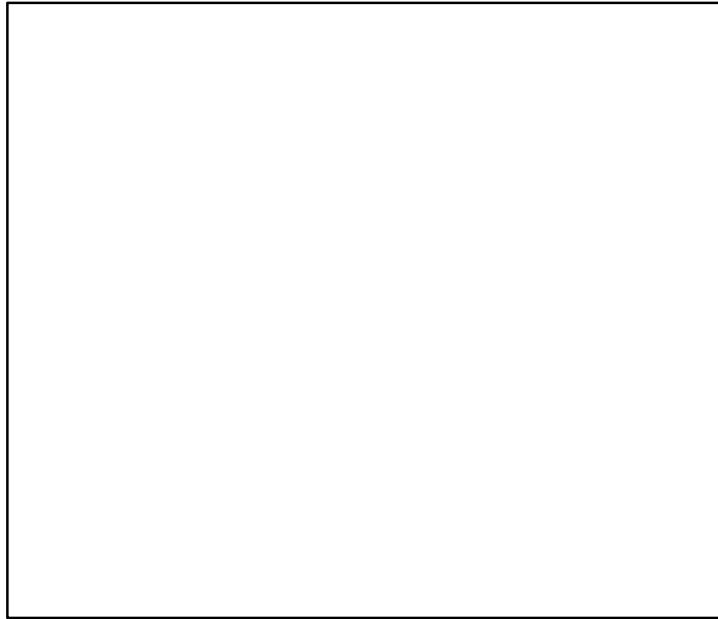
Kobe MSY*



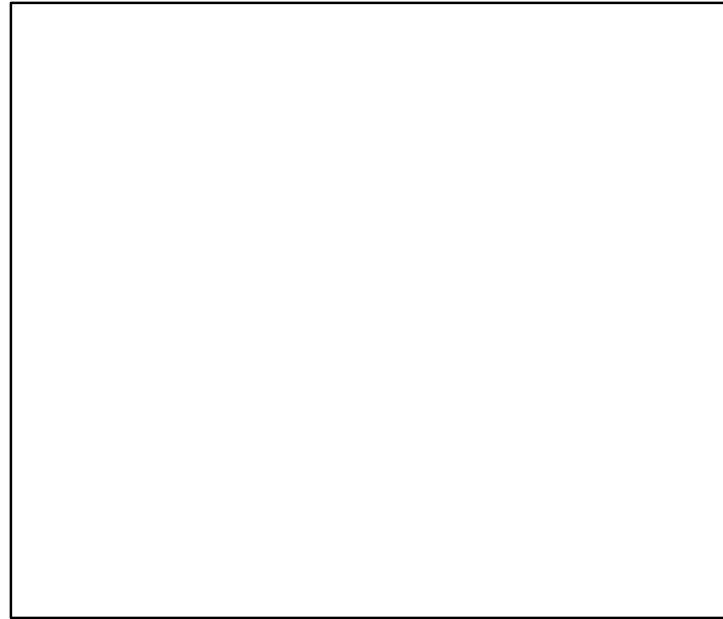
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Shagreen ray ICES 6–7 [SGRAYVI–VII]

TB*



SSB*



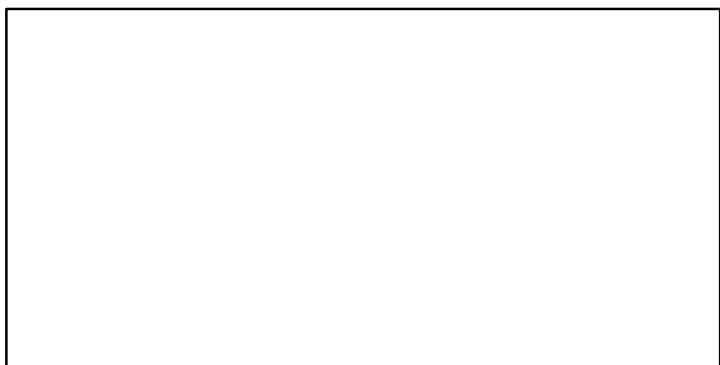
TN *



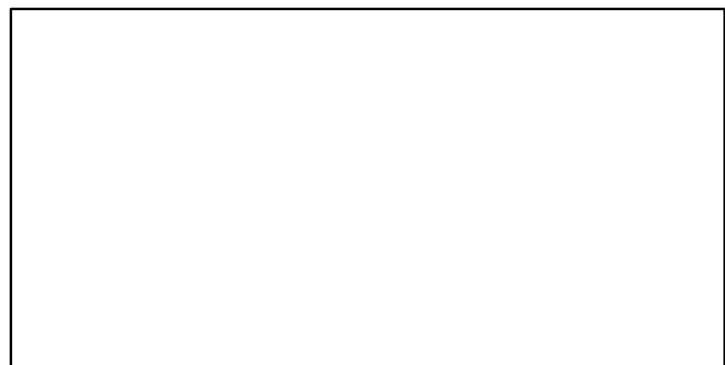
F*



ER*



Recruits*

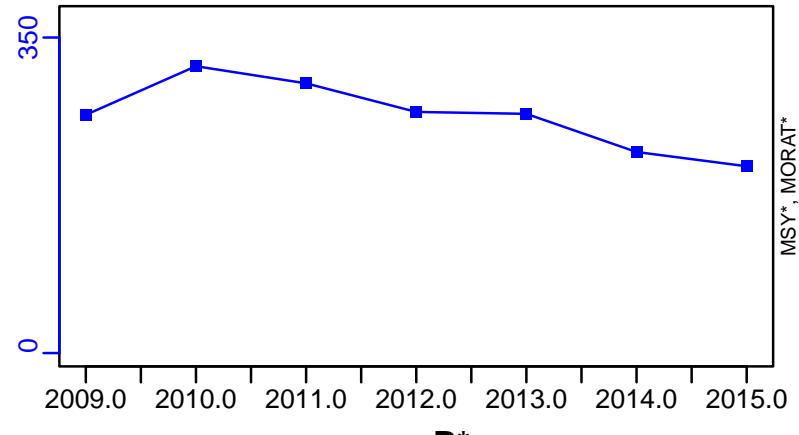


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Shagreen ray ICES 6–7 [SGRAYVI–VII]

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

TAC*, Cpair*, Cadv*



survB*

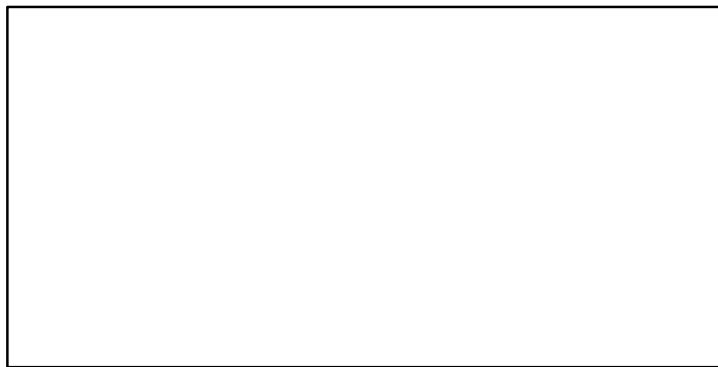
MSY*, MORAT*



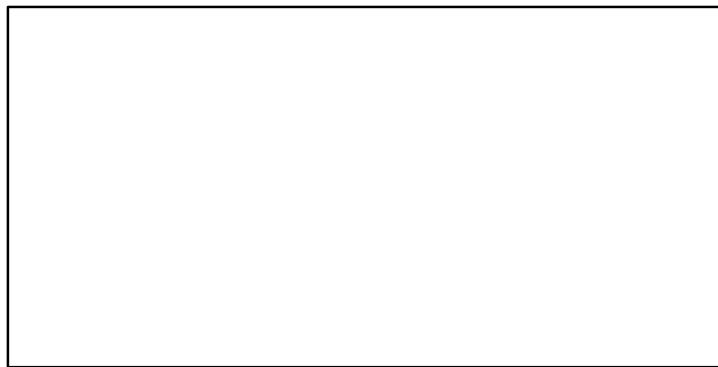
CPUE*



EFFORT*



CdivMSY*



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

Smooth hound Northeast Atlantic [SHSPPNEATL]

Metadata	
Scientific Name	Mustelus spp
Current Assess ID	WGEF-SHSPPNEATL-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*

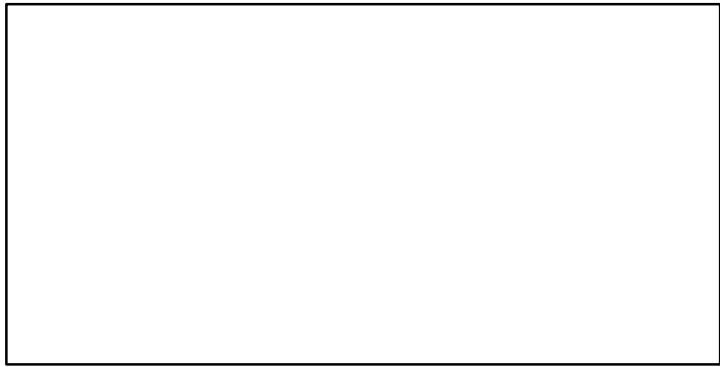
Spawner Recruit*

Production*

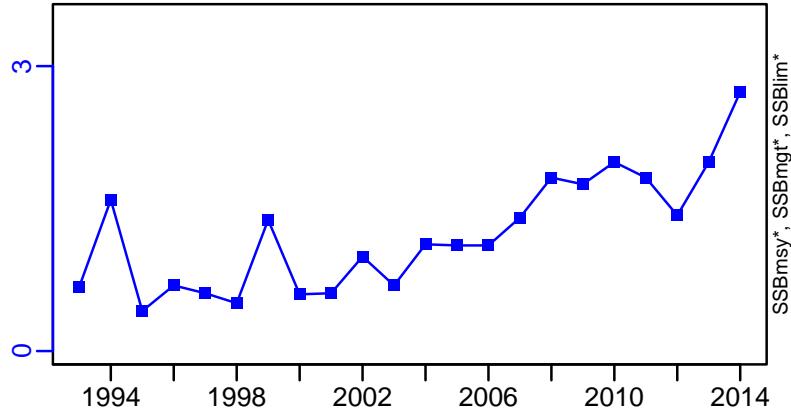
◆ Start Year ◆ End Year * No Data

Smooth hound Northeast Atlantic [SHSPPNEATL]

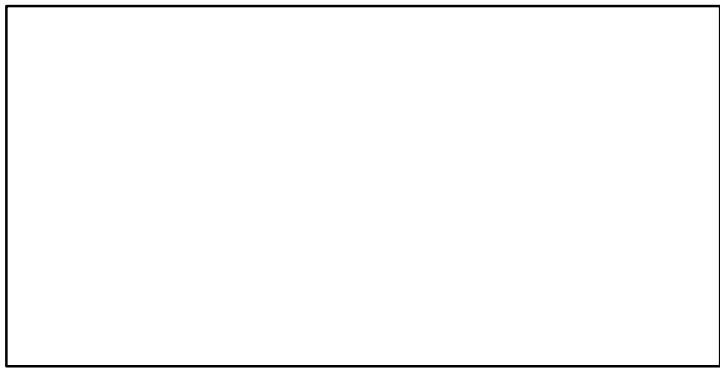
TB*



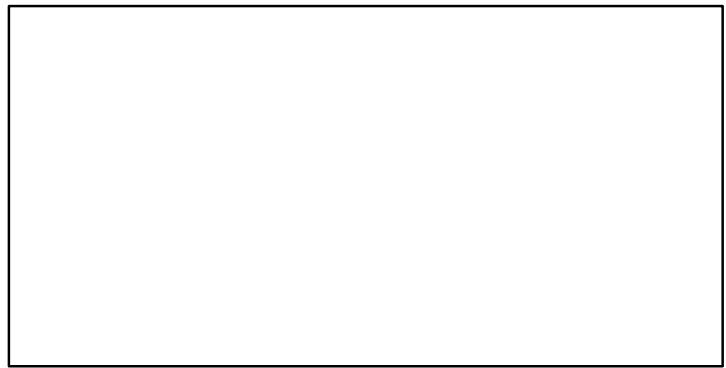
SSB-index (1993–2014–ICESIMP2018)



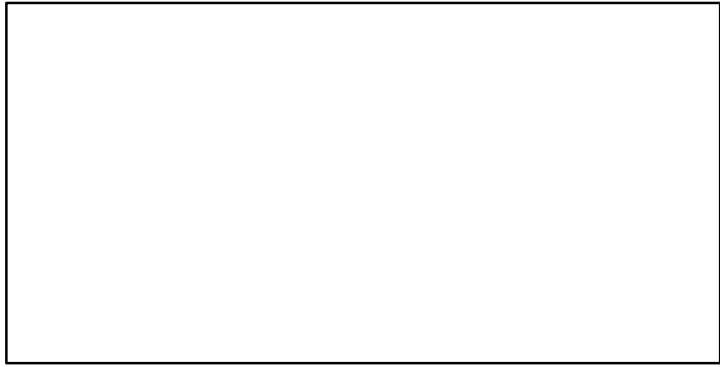
TN *



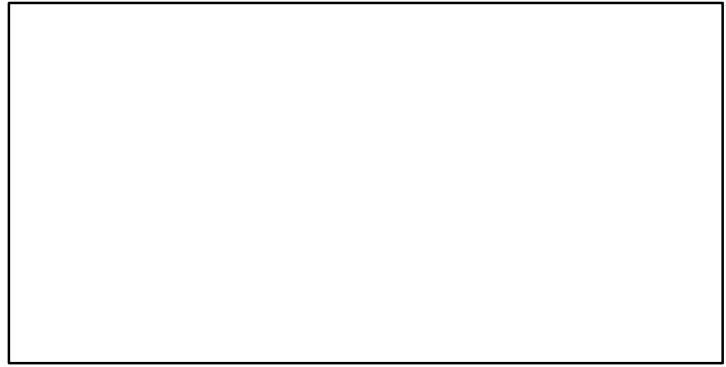
F*



ER*



Recruits*

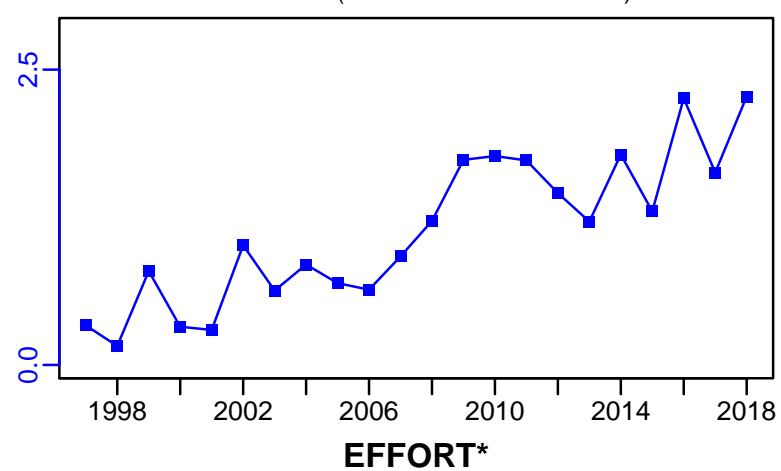
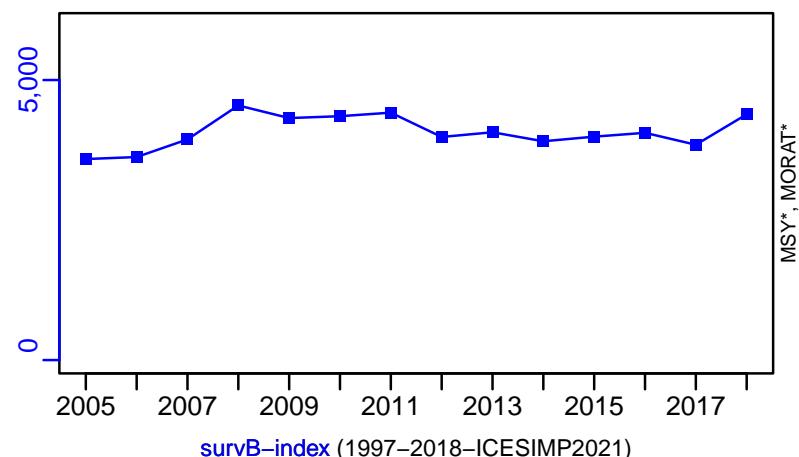


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Smooth hound Northeast Atlantic [SHSPPNEATL]

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

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*



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

Common sole Celtic Sea [SOLECS]

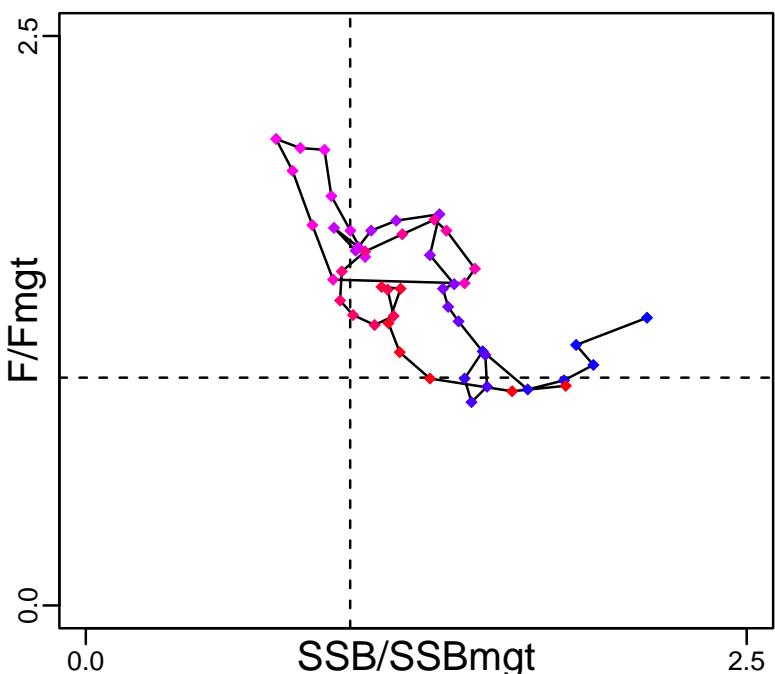
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCS-E-SOLECS-1971-2021-ICESIMP2021-2
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2011

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

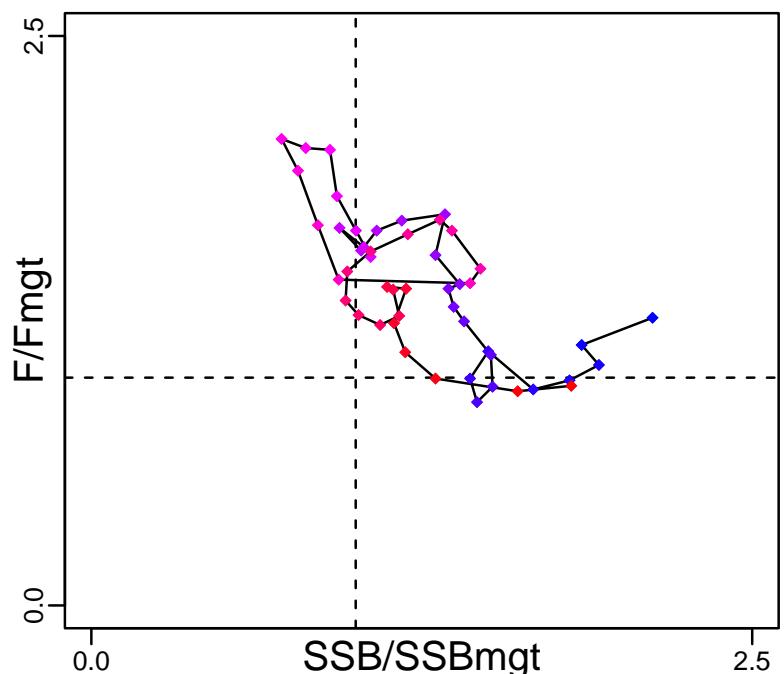
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	6924	-	-
SSB	SSB-MT	2021	6140	-	-
TN	-	-	-	-	-
R	R-E00	2021	5,060,000	-	1
F	F-1/yr	2021	0.269	-	-
ER	ER-calc-ratio	2019	0.156	-	-
TC	TC-MT	2019	997		
TL	TL-MT	2021	1520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021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

Common sole Celtic Sea [SOLECS]

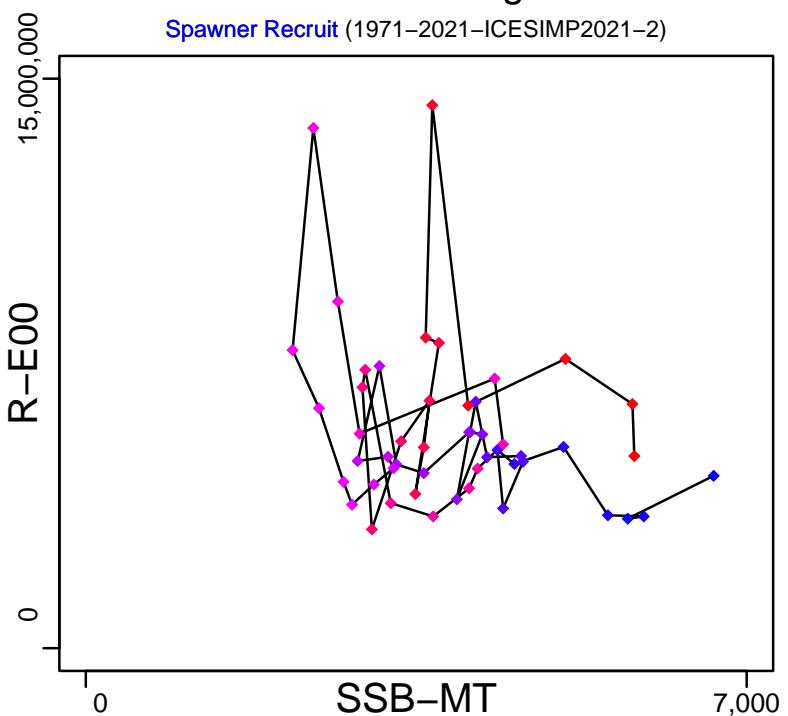
Kobe MSYpref (1971–2020–ICESIMP2021–2)



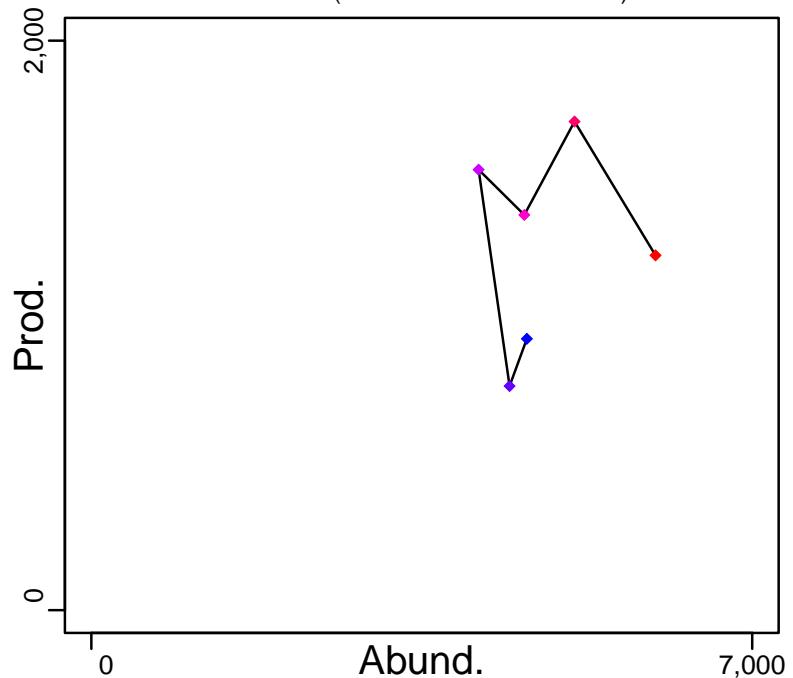
Kobe MGTpref (1971–2020–ICESIMP2021–2)



Spawner Recruit (1971–2021–ICESIMP2021–2)



Production (1970–2019–ICESIMP2021)

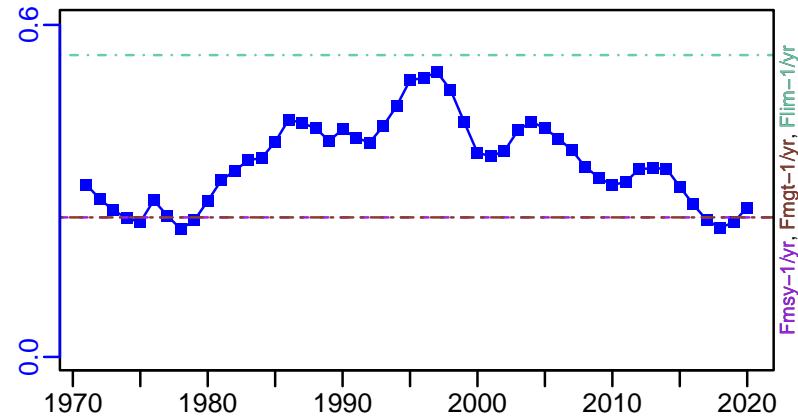
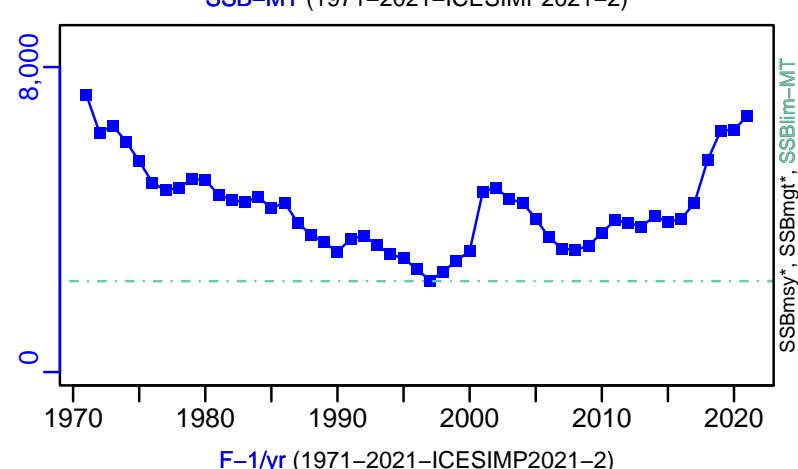
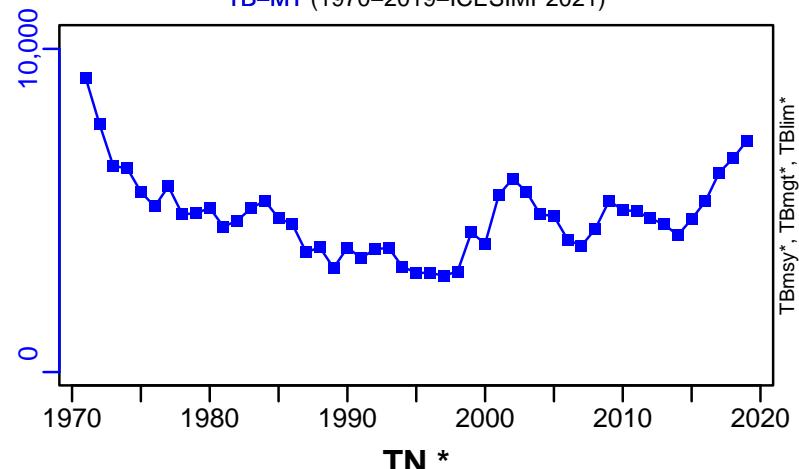


◆ Start Year	◆ End Year	*	No Data
--------------	------------	---	---------

Common sole Celtic Sea [SOLECS]

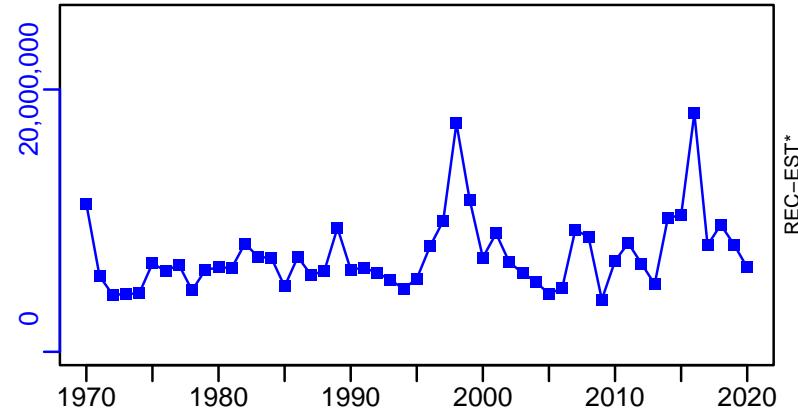
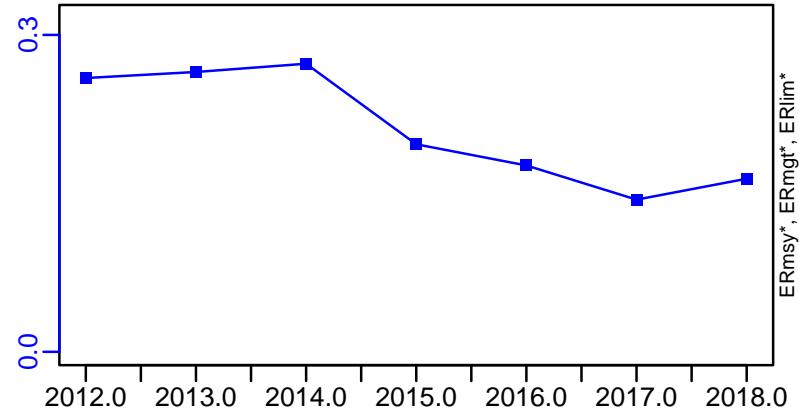
TB-MT (1970–2019–ICESIMP2021)

SSB-MT (1971–2021–ICESIMP2021–2)



ER-calc-ratio (1970–2019–ICESIMP2021)

R-E00 (1971–2021–ICESIMP2021–2)

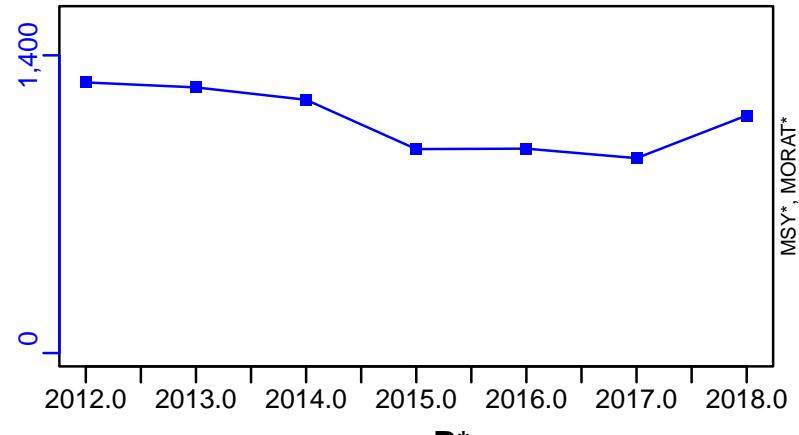


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

Common sole Celtic Sea [SOLECS]

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

TAC*, Cpair*, Cadv*



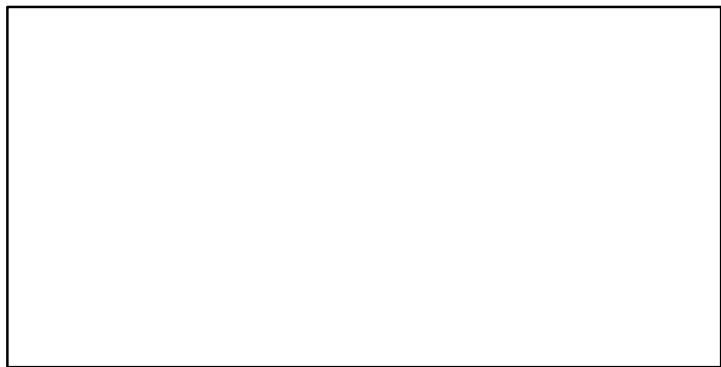
survB*



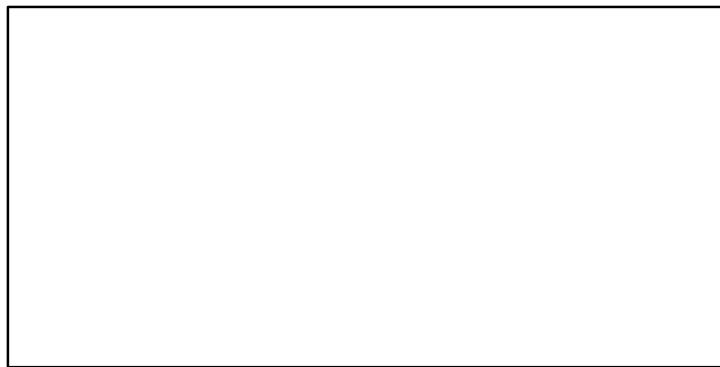
CPUE*



EFFORT*



CdivMSY*



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

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

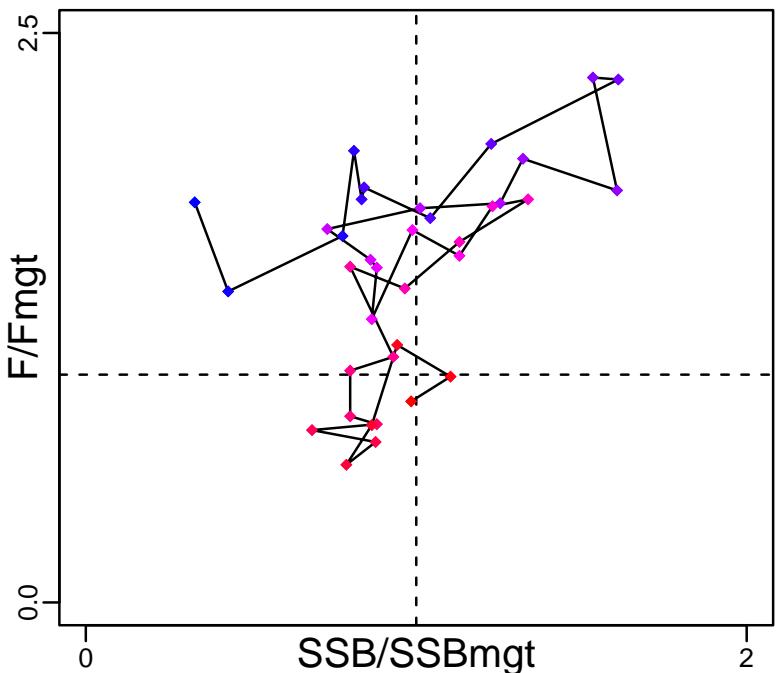
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBFAS-SOLEIIIa-2224-1984-2021-ICESIMP2021-2
Area	ICES 22-24-3a
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020,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

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

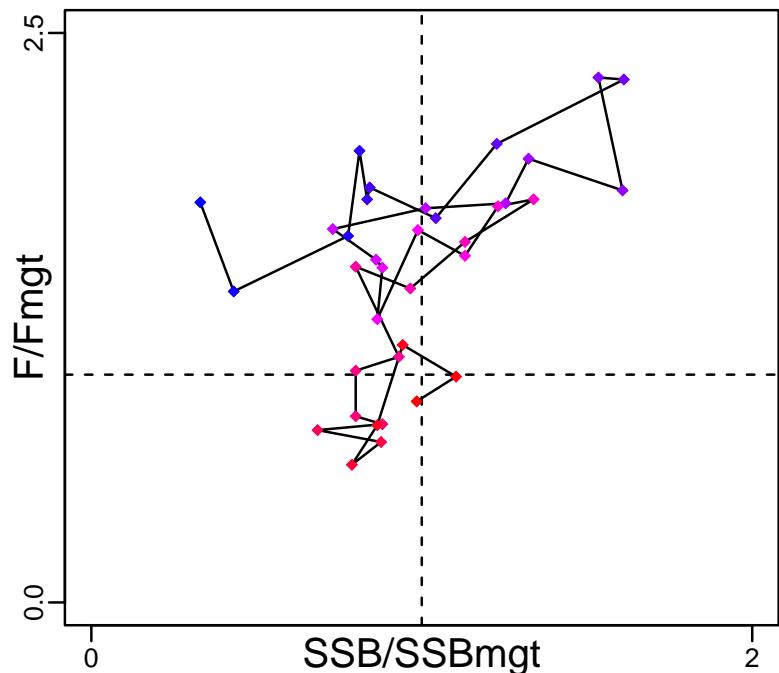
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3460	Both	-
SSB	SSB-MT	2021	3370	-	-
TN	-	-	-	-	-
R	R-E00	2021	2,850,000	-	1
F	F-1/yr	2020	0.203	-	-
ER	ER-calc-ratio	2018	0.15	-	-
TC	TC-MT	2011	538		
TL	TL-MT	2021	424		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018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

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

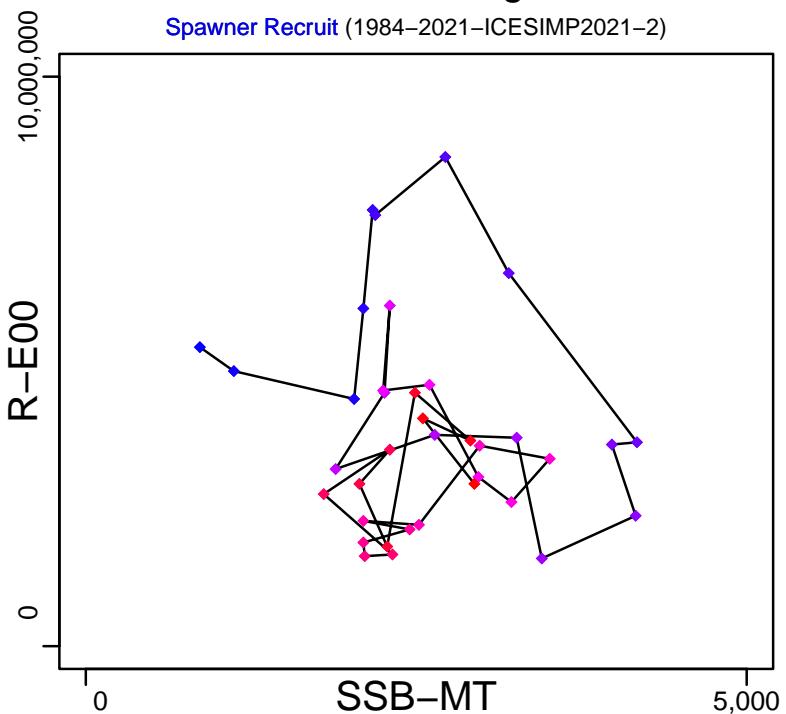
Kobe MSYpref (1984–2020–ICESIMP2021–2)



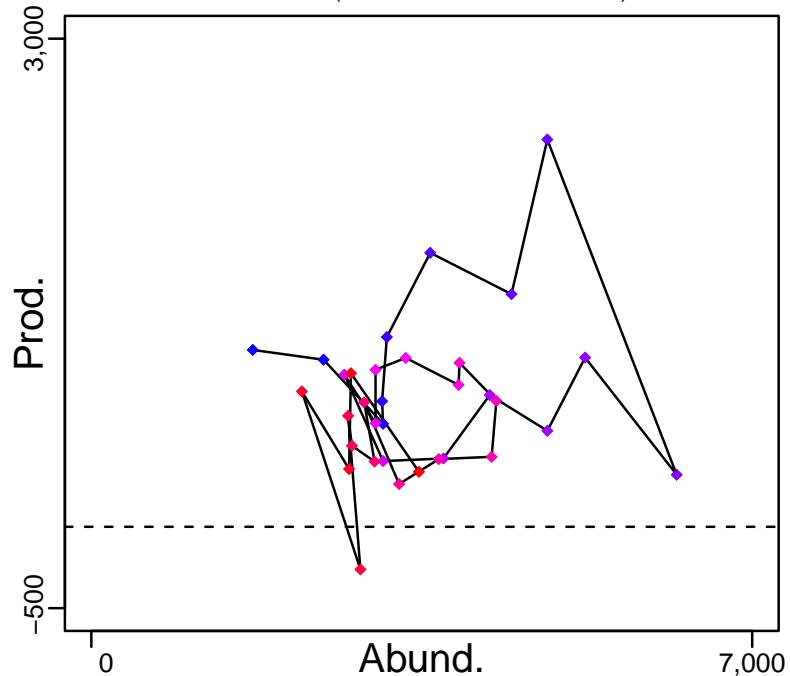
Kobe MGTpref (1984–2020–ICESIMP2021–2)



Spawner Recruit (1984–2021–ICESIMP2021–2)



Production (1983–2018–ICESIMP2018)

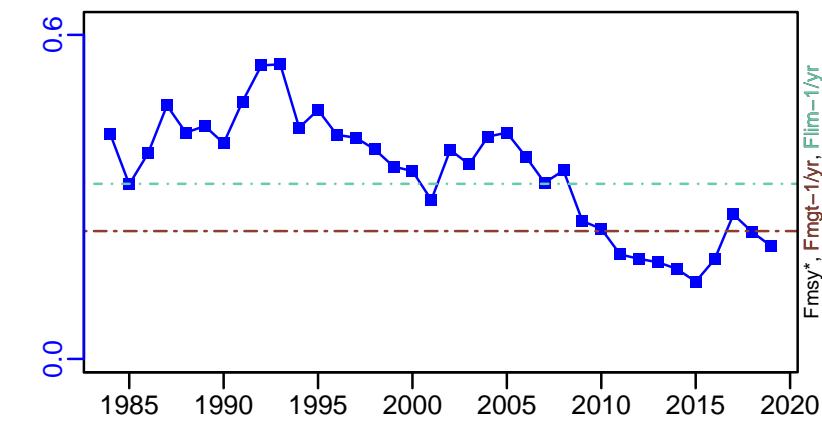
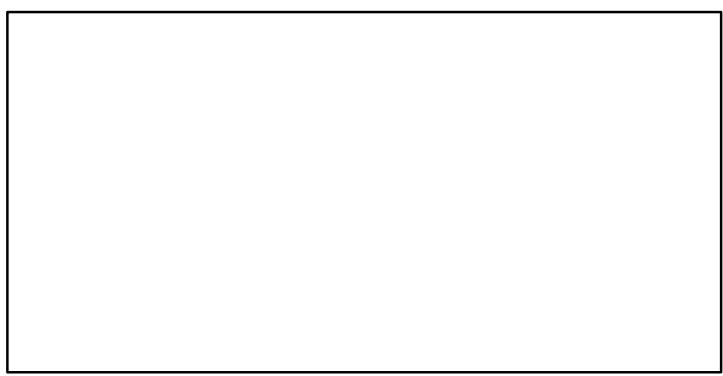
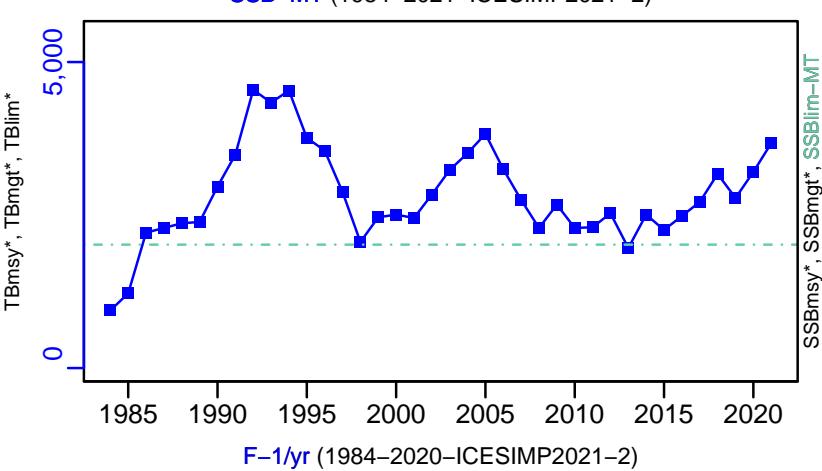
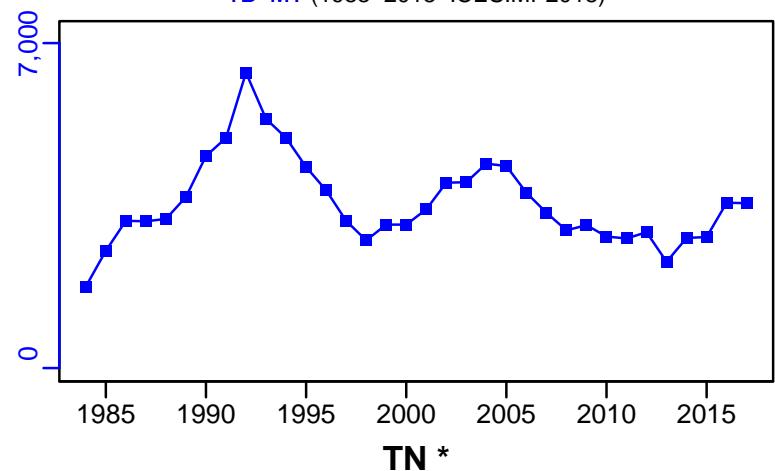


◆ Start Year ◆ End Year * No Data

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

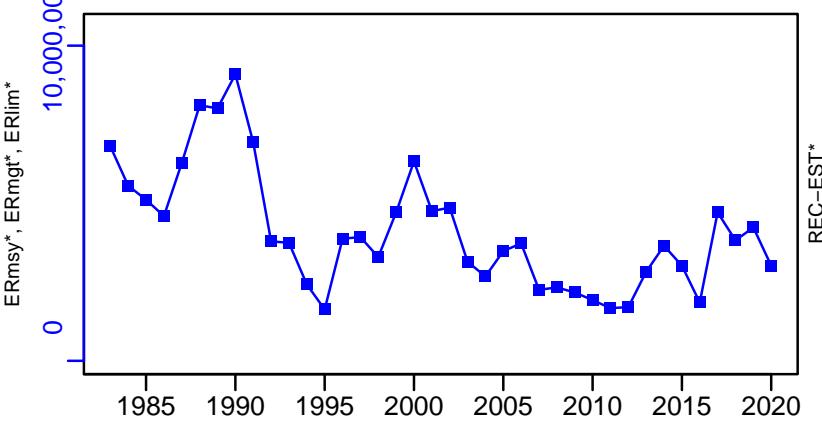
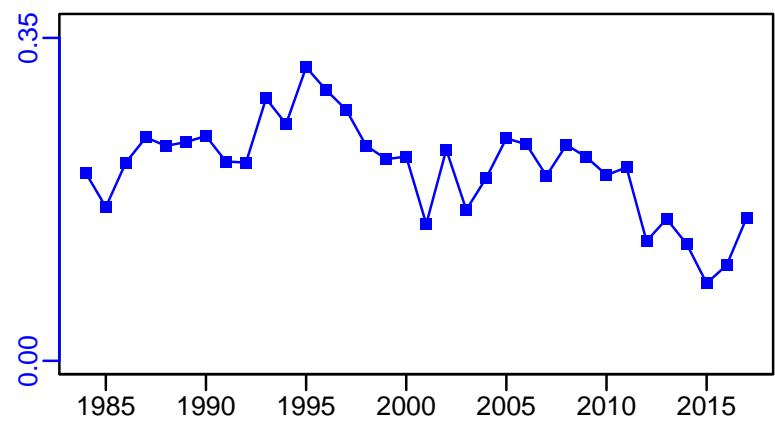
TB-MT (1983–2018–ICESIMP2018)

SSB-MT (1984–2021–ICESIMP2021-2)



ER-calc-ratio (1983–2018–ICESIMP2018)

R-E00 (1984–2021–ICESIMP2021-2)

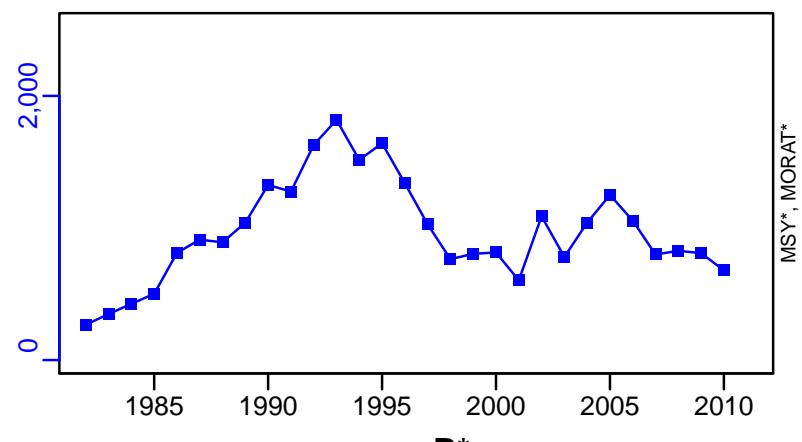


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

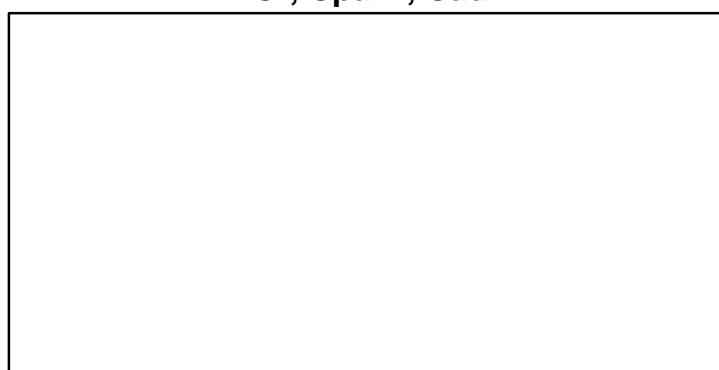
Common sole ICES 22–24–3a [SOLEIIIa-2224]

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

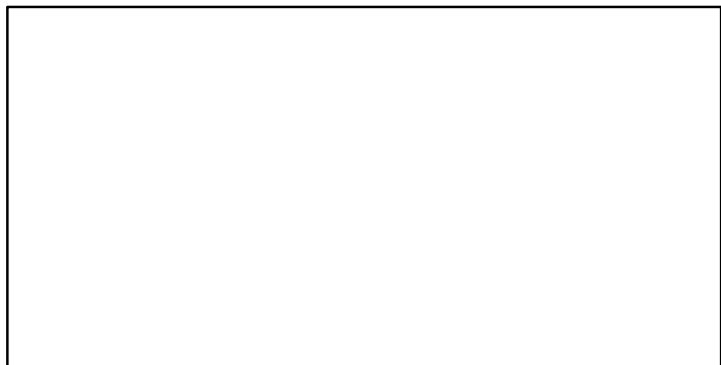
TAC*, Cpair*, Cadv*



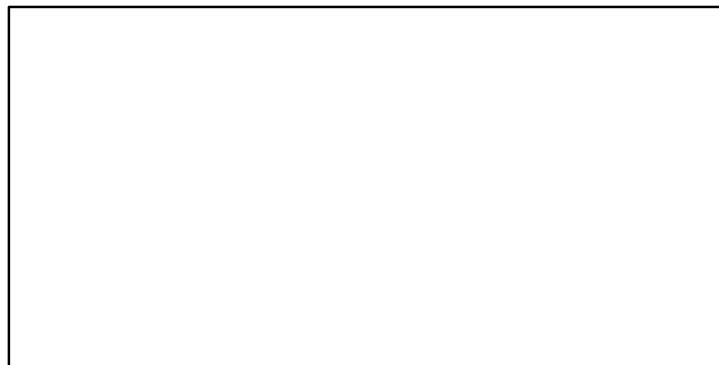
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 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	WGCSSE-SOLEIS-1970-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2011

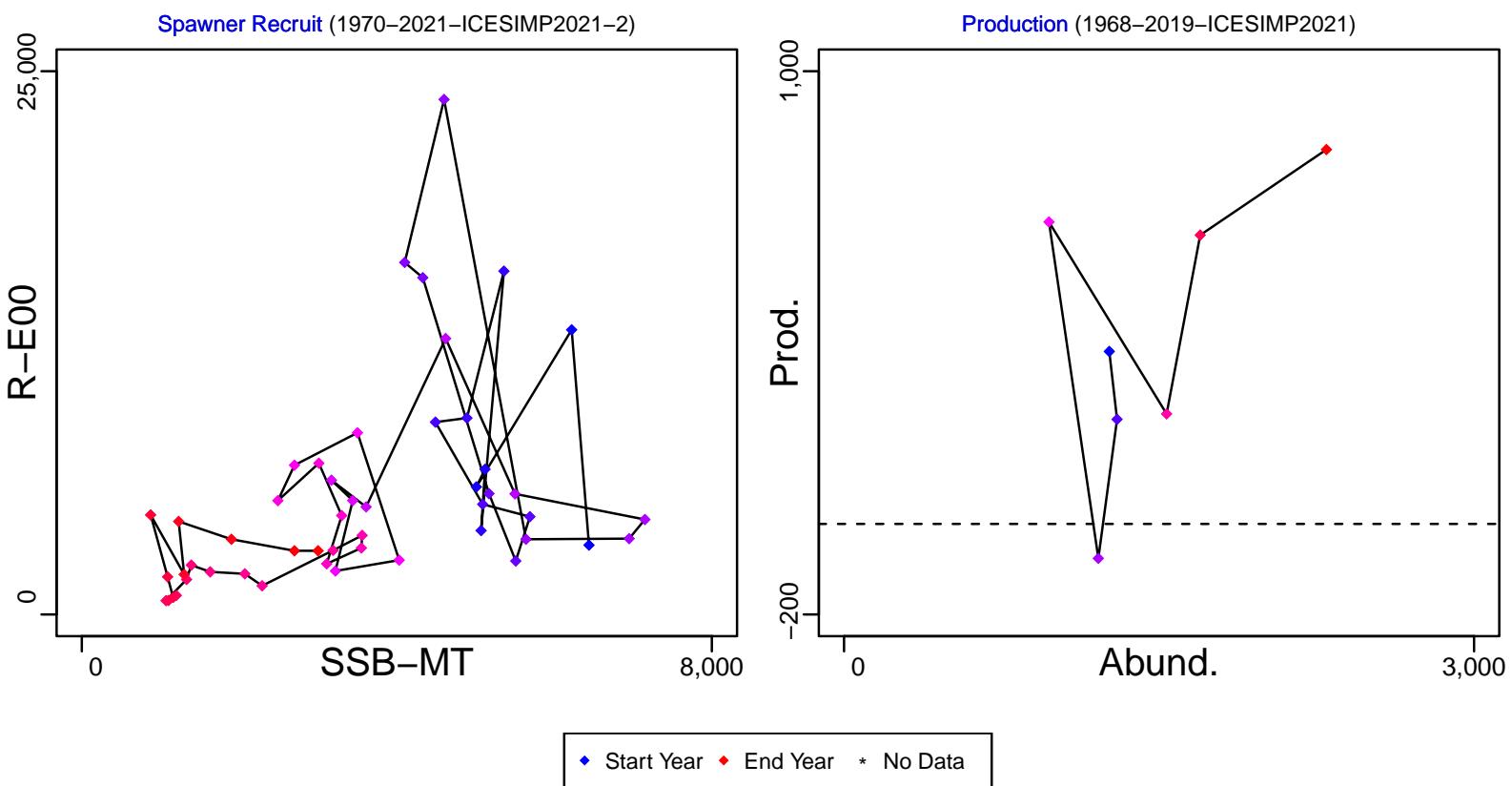
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2500
Flim	Flim-1/yr	2021	0.29
ERlim	-	-	-

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

Common sole Irish Sea [SOLEIS]

Kobe MSY*

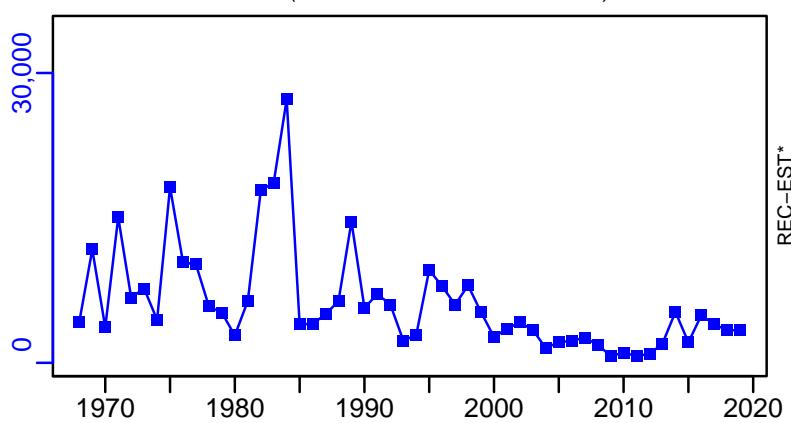
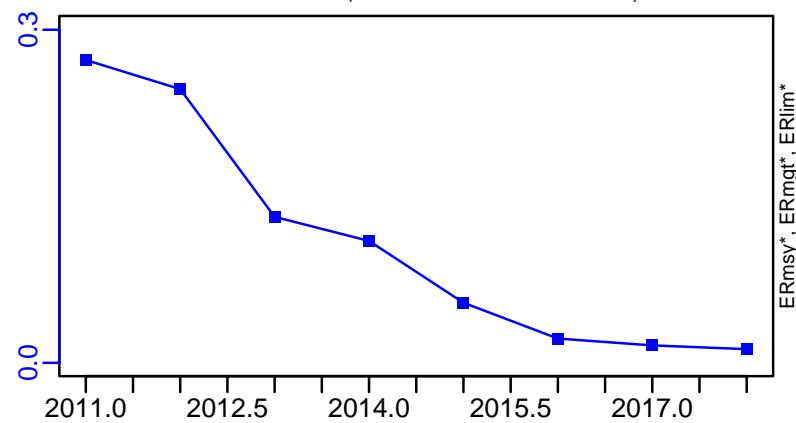
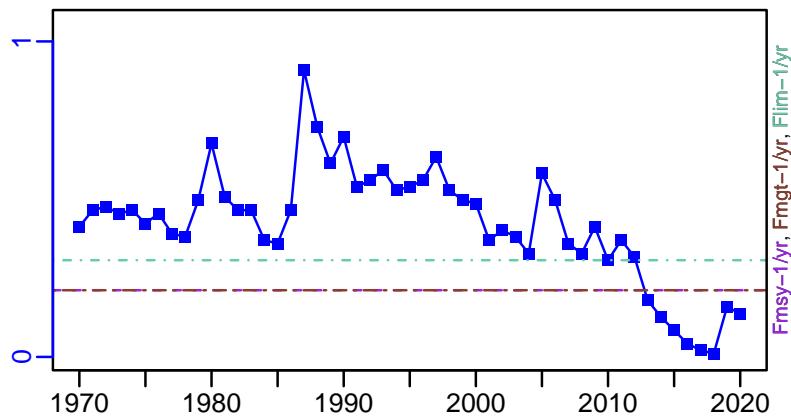
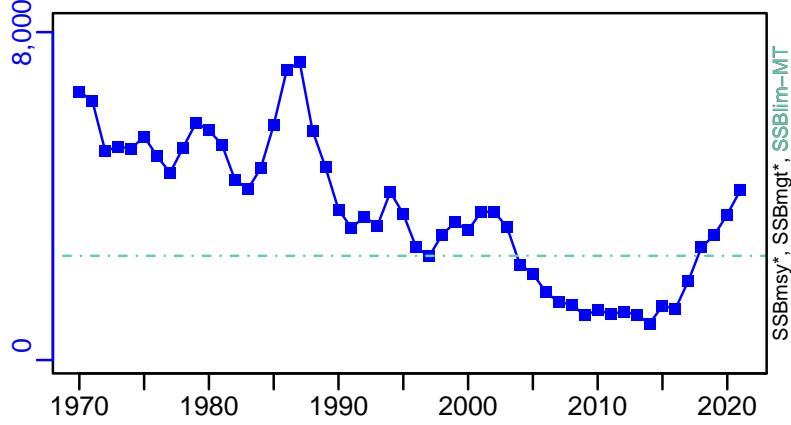
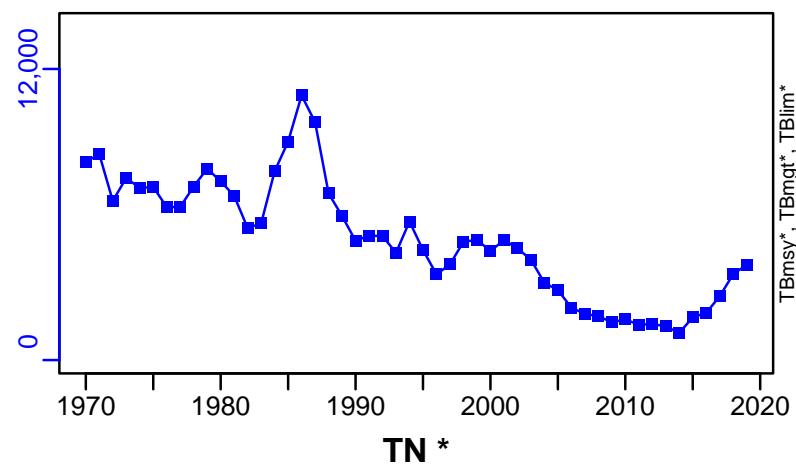
Kobe MGT*



Common sole Irish Sea [SOLEIS]

TB-MT (1968–2019–ICESIMP2021)

SSB-MT (1970–2021–ICESIMP2021–2)

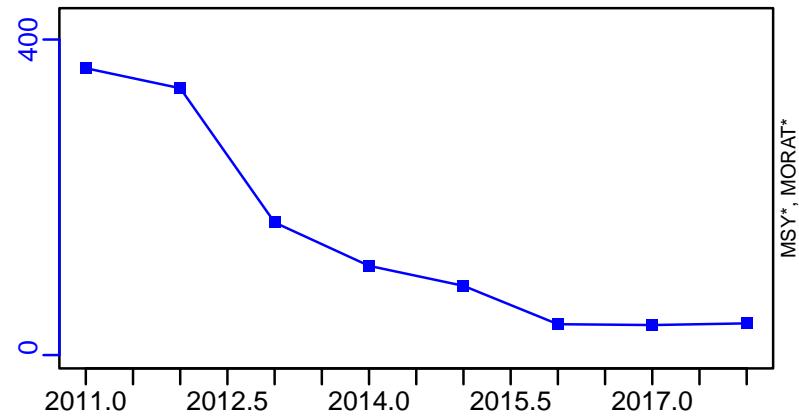


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

Common sole Irish Sea [SOLEIS]

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

TAC*, Cpair*, Cadv*



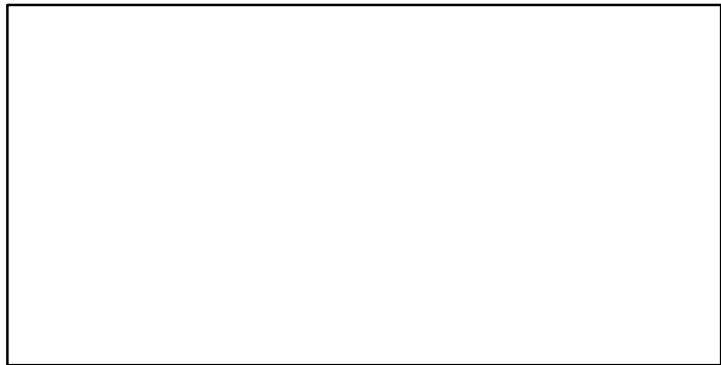
survB*



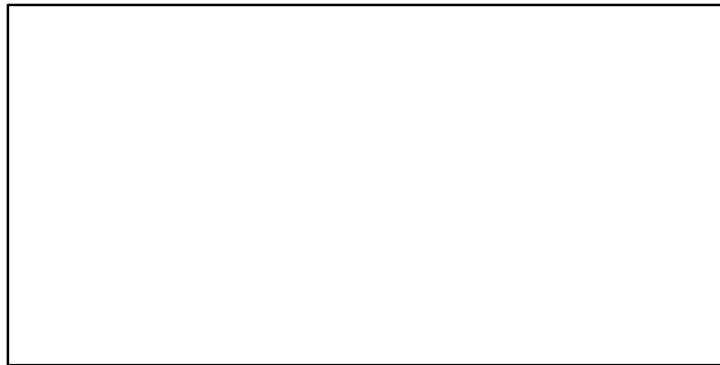
CPUE*



EFFORT*



CdivMSY*



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

Common sole North Sea [SOLENS]

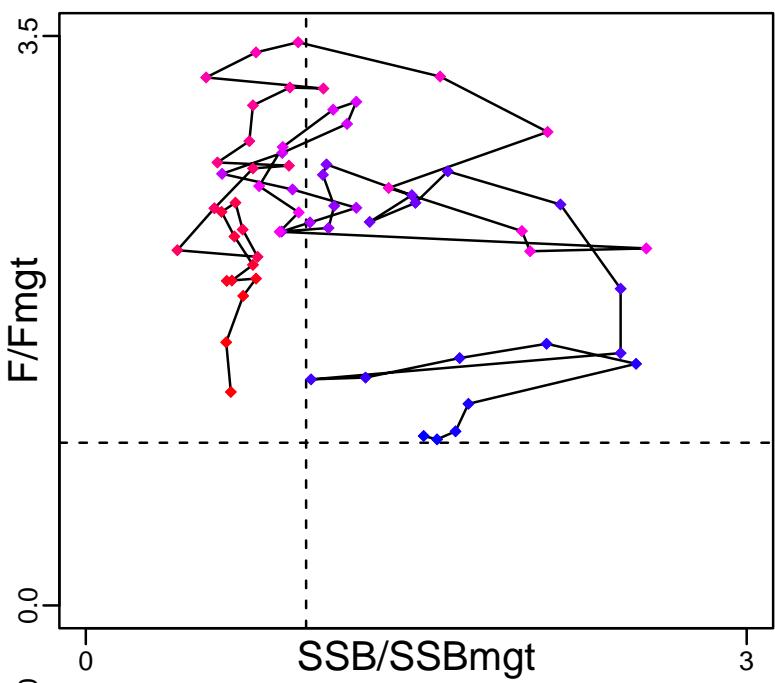
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLENS-1957-2021-ICESIMP2021-2
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014,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

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

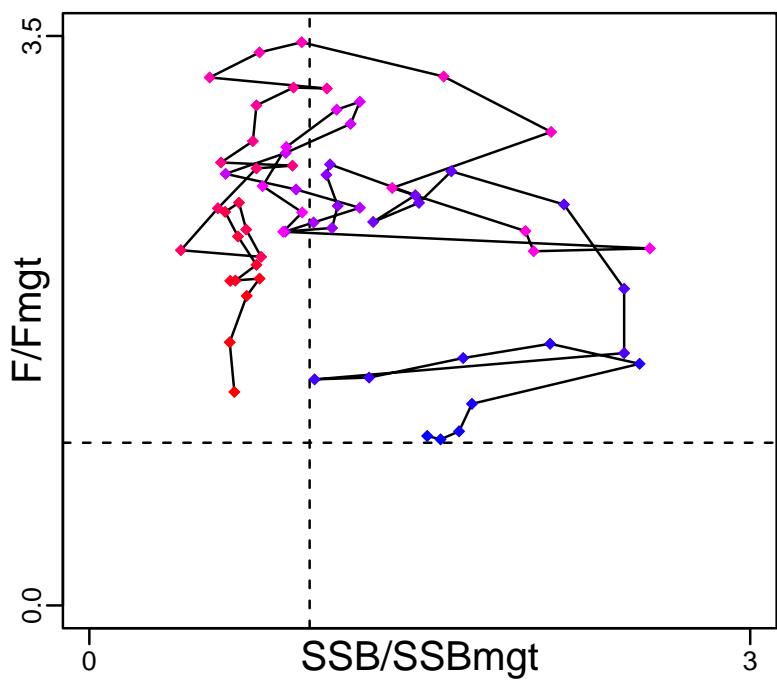
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2018	64,800	Both	-	
SSB	SSB-MT	2021	64,800	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	1.14×10^8	-	1	
F	F-1/yr	2021	0.233	-	-	
ER	ER-calc-ratio	2018	0.191	-	-	
TC	TC-MT	2021	10,500			
TL	TL-MT	2021	8840			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy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

Common sole North Sea [SOLENS]

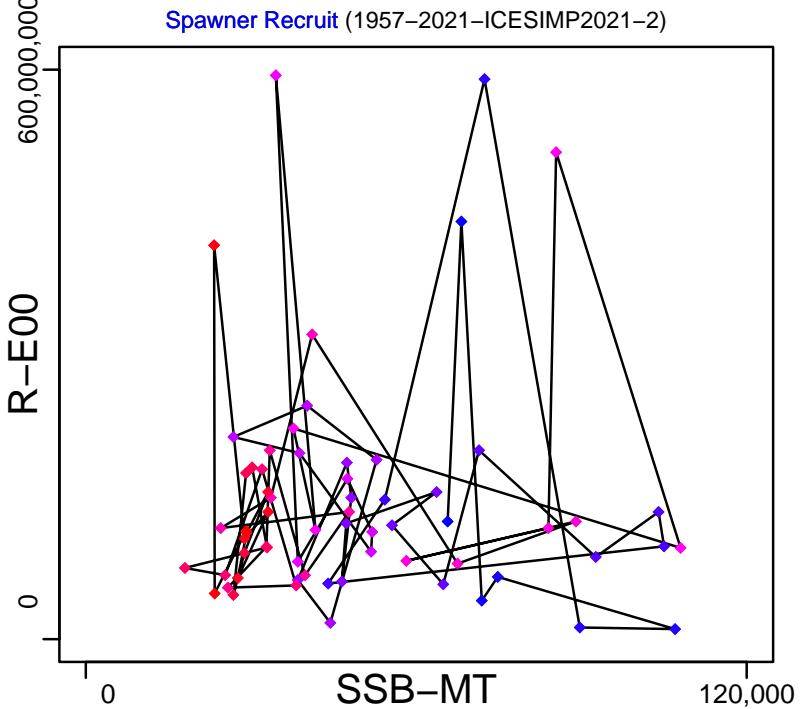
Kobe MSYpref (1957–2020–ICESIMP2021–2)



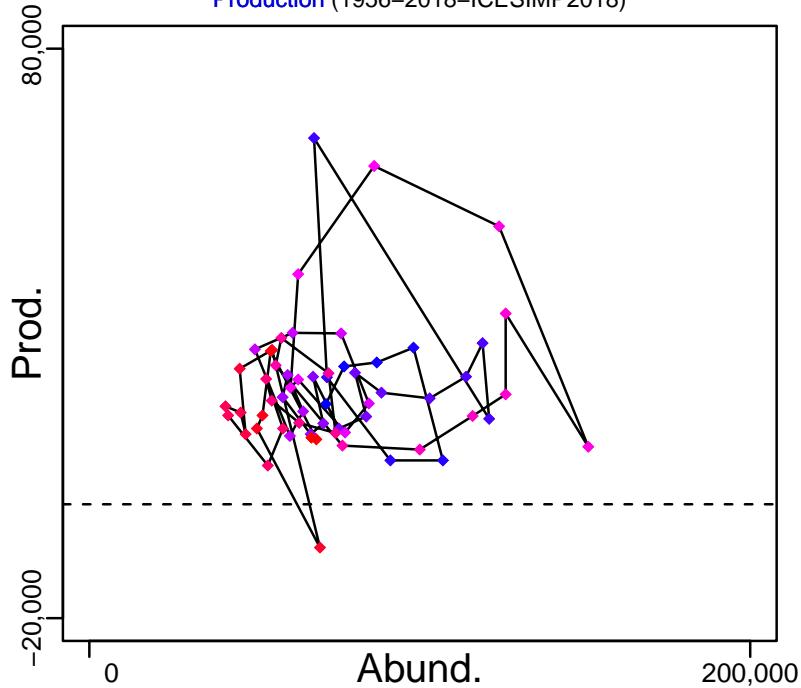
Kobe MGTpref (1957–2020–ICESIMP2021–2)



Spawner Recruit (1957–2021–ICESIMP2021–2)



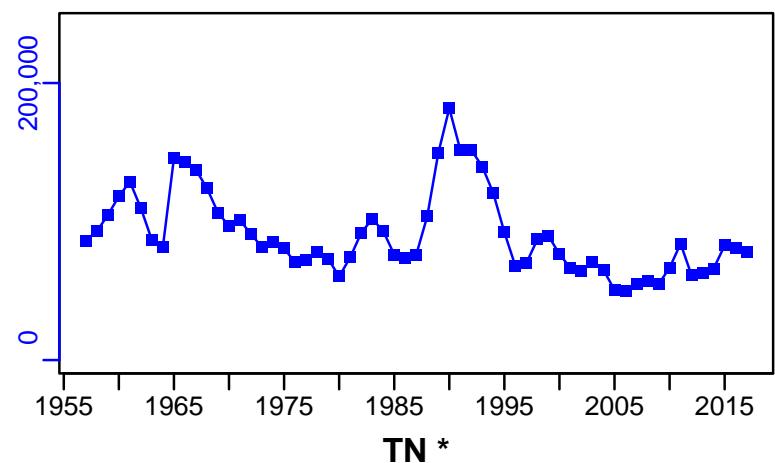
Production (1956–2018–ICESIMP2018)



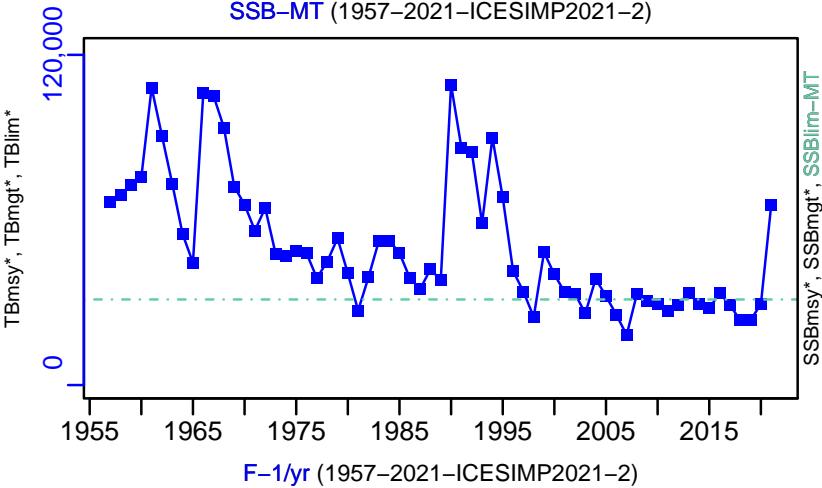
◆ Start Year ◆ End Year * No Data

Common sole North Sea [SOLENS]

TB-MT (1956–2018–ICESIMP2018)



SSB-MT (1957–2021–ICESIMP2021–2)



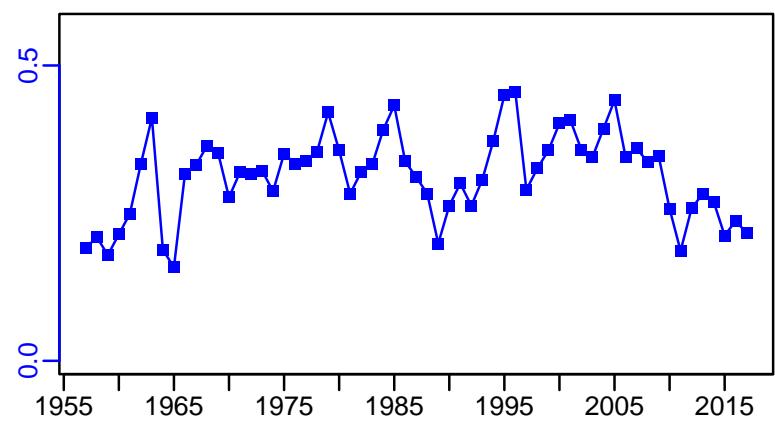
TN *

F-1/yr (1957–2021–ICESIMP2021–2)

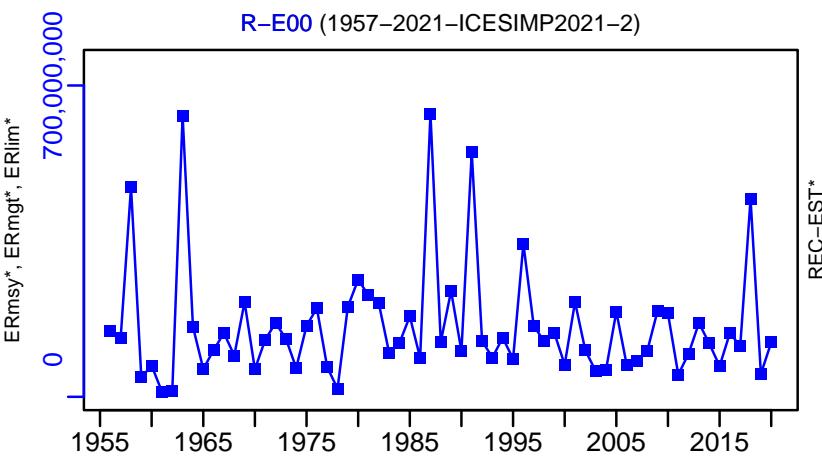
SSBmsy*, SSBmgt*, SSBlim-MT

Fmsy-1/yr, Fmgt-1/yr, Flim-1/yr

ER-calc-ratio (1956–2018–ICESIMP2018)



R-E00 (1957–2021–ICESIMP2021–2)



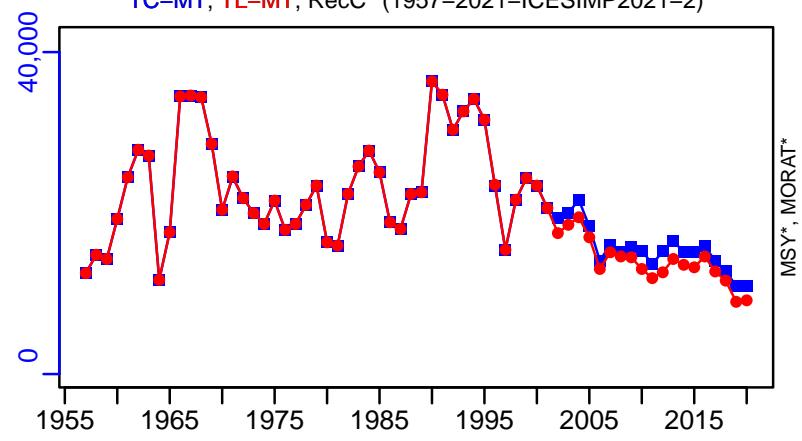
REC-EST*

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

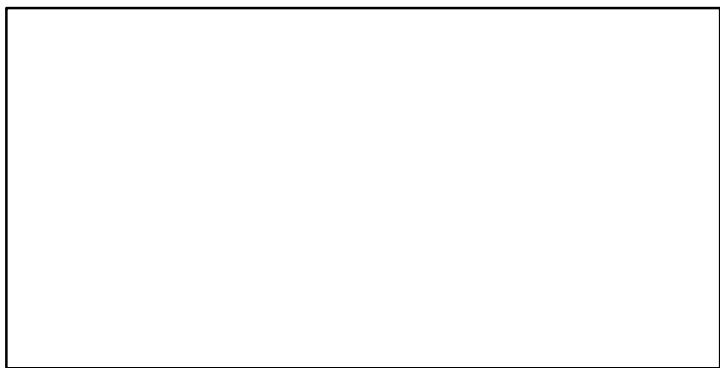
Common sole North Sea [SOLENS]

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

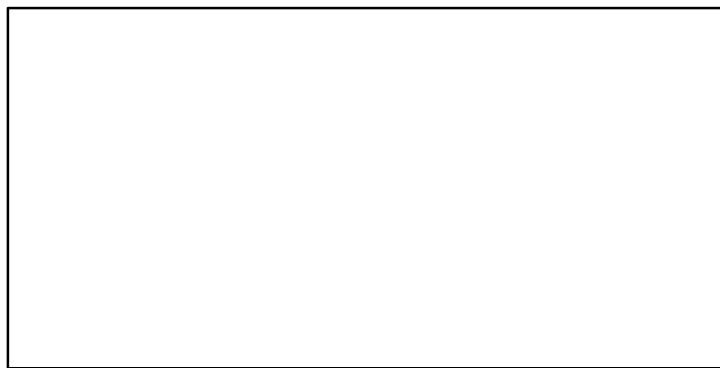
TAC*, Cpair*, Cadv*



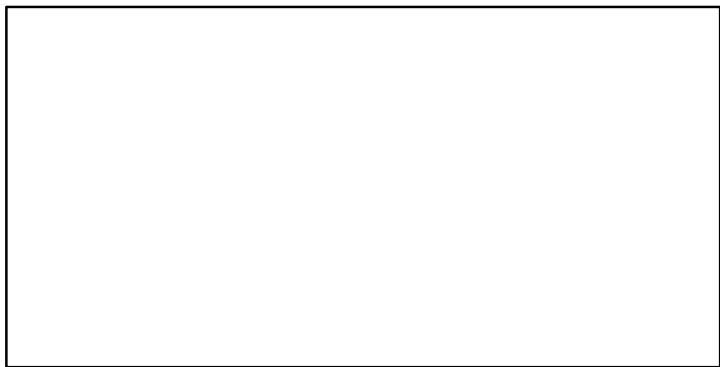
survB*



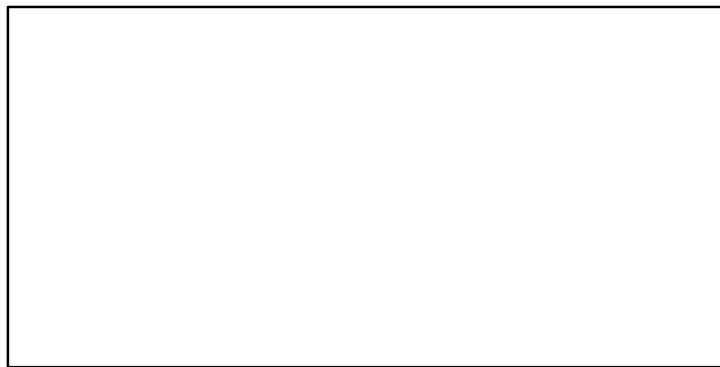
CPUE*



EFFORT*



CdivMSY*



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

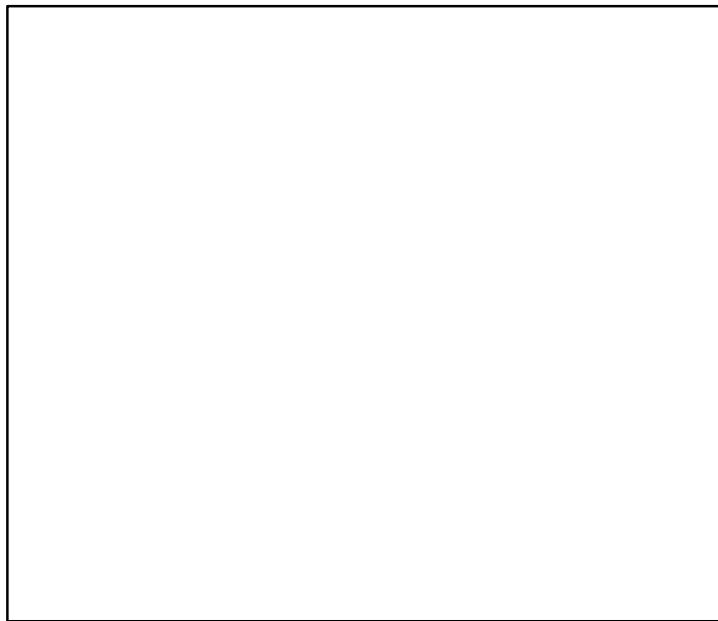
Common sole ICES 7bc [SOLEVIIbc]

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

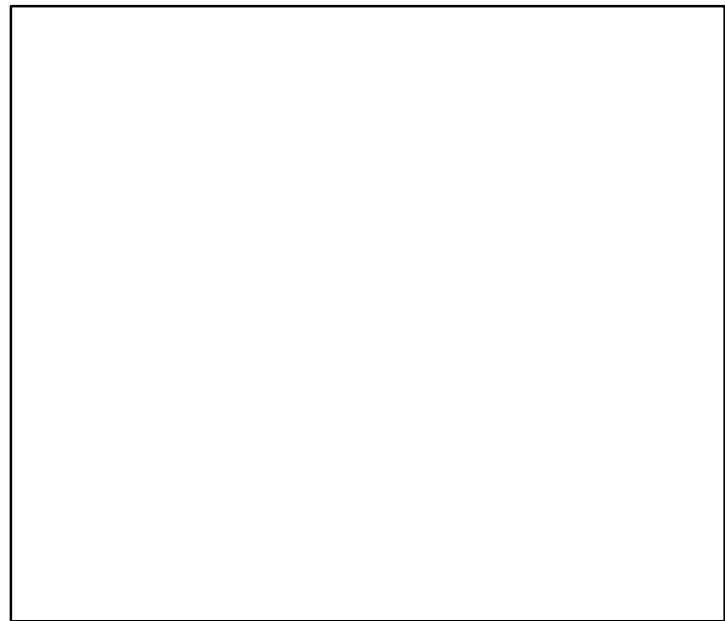
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	18		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

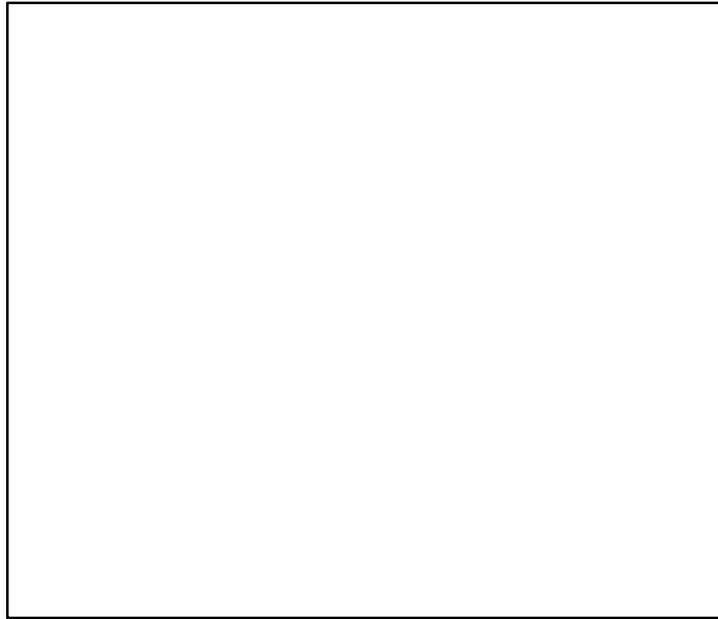
Kobe MSY*



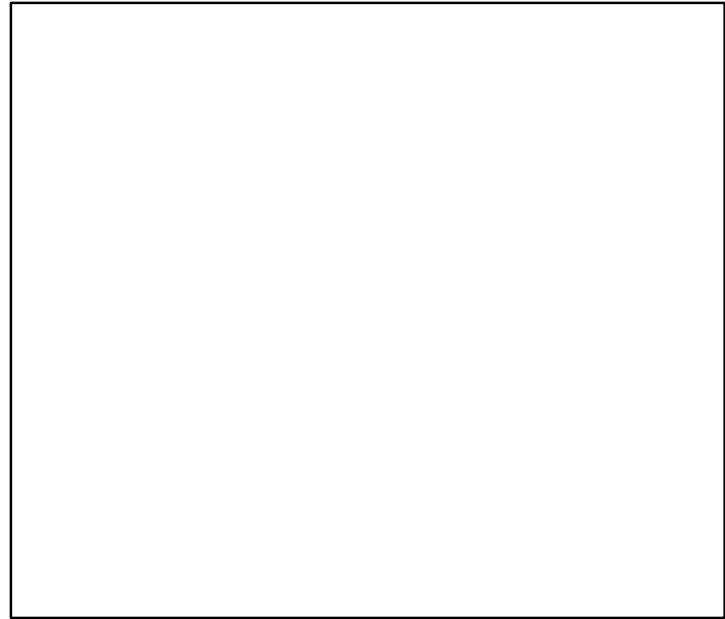
Kobe MGT*



Spawner Recruit*



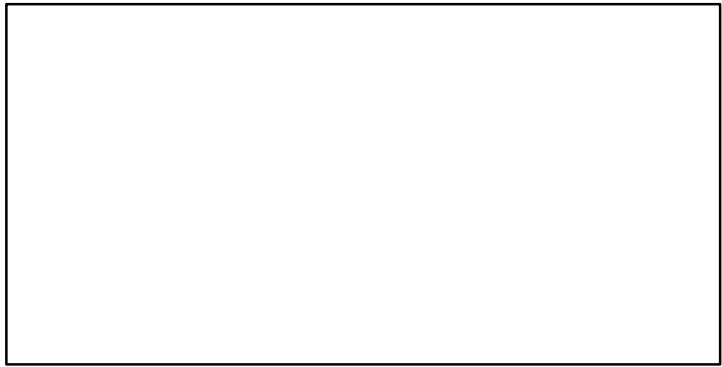
Production*



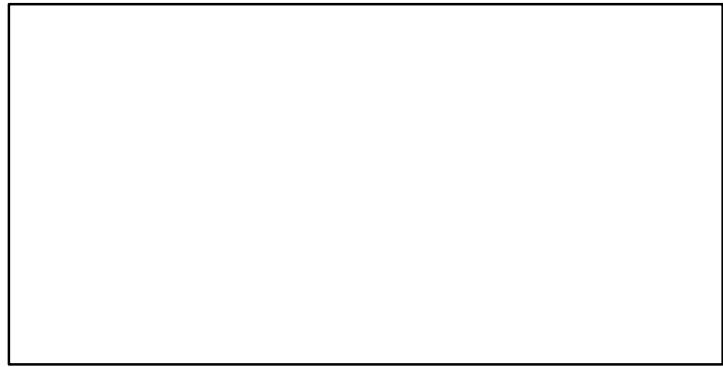
◆ Start Year ♦ End Year * No Data

Common sole ICES 7bc [SOLEVIIbc]

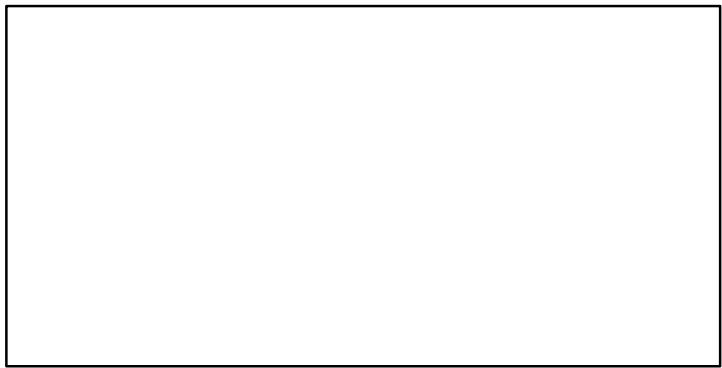
TB*



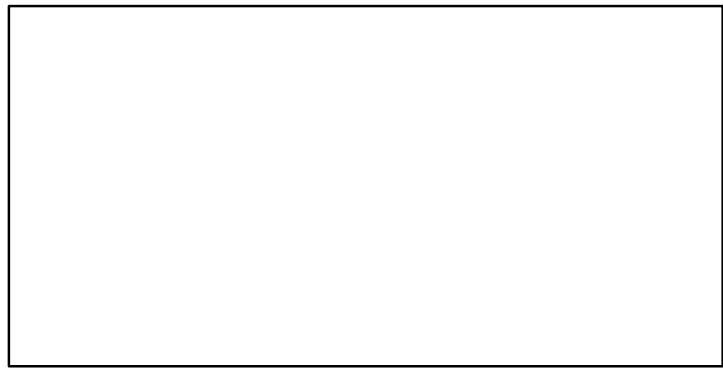
SSB*



TN *



F*



ER*



Recruits*

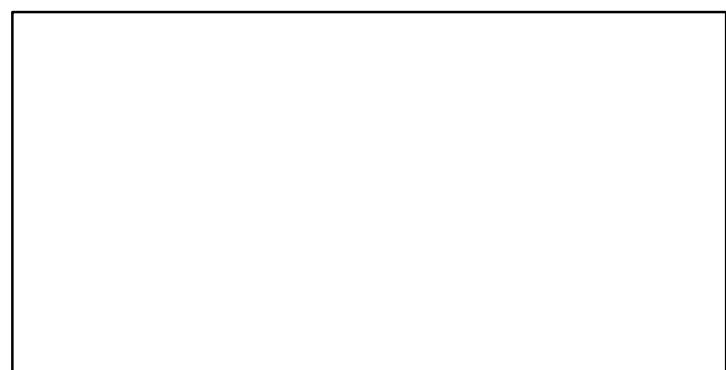
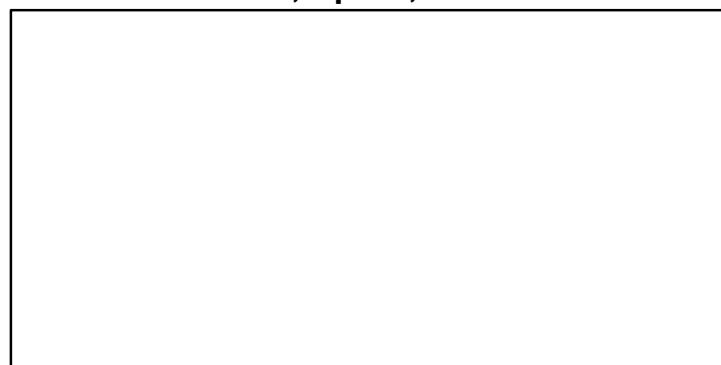
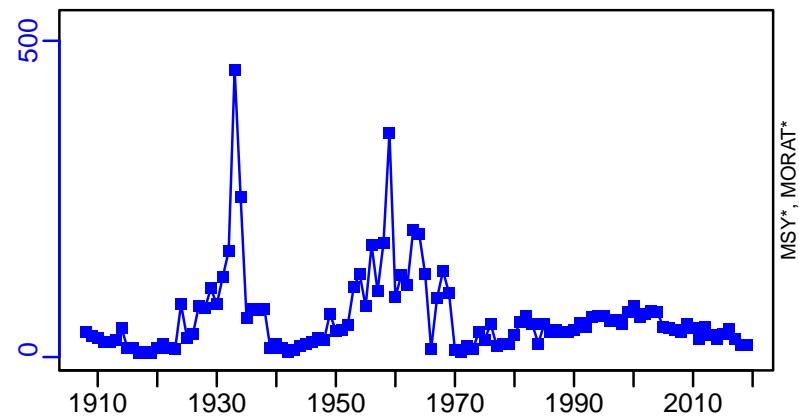


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

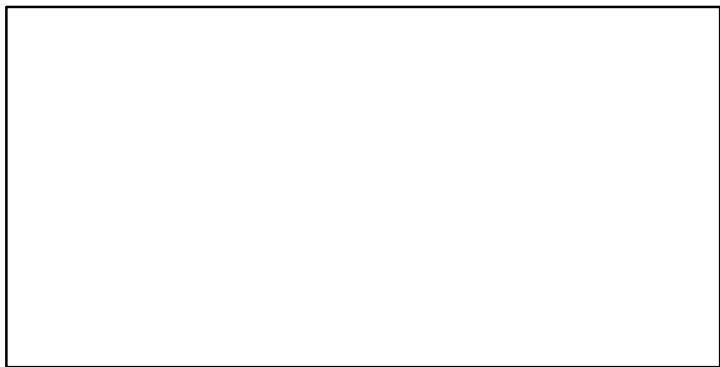
Common sole ICES 7bc [SOLEVIIbc]

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

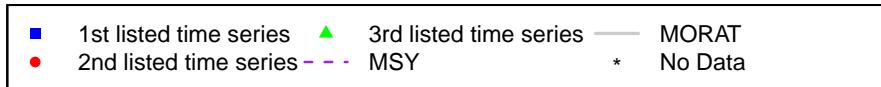
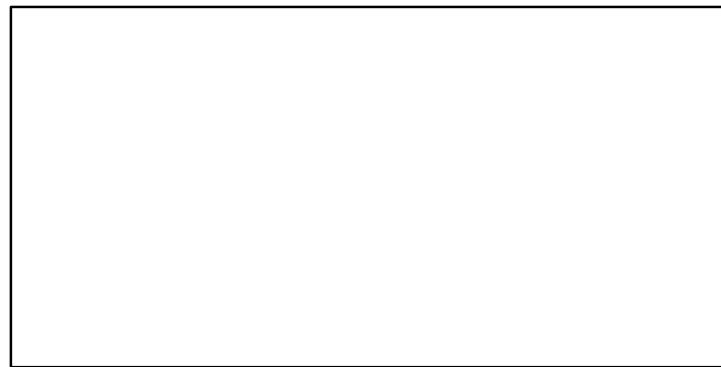
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



Common sole Eastern English Channel [SOLEVIIId]

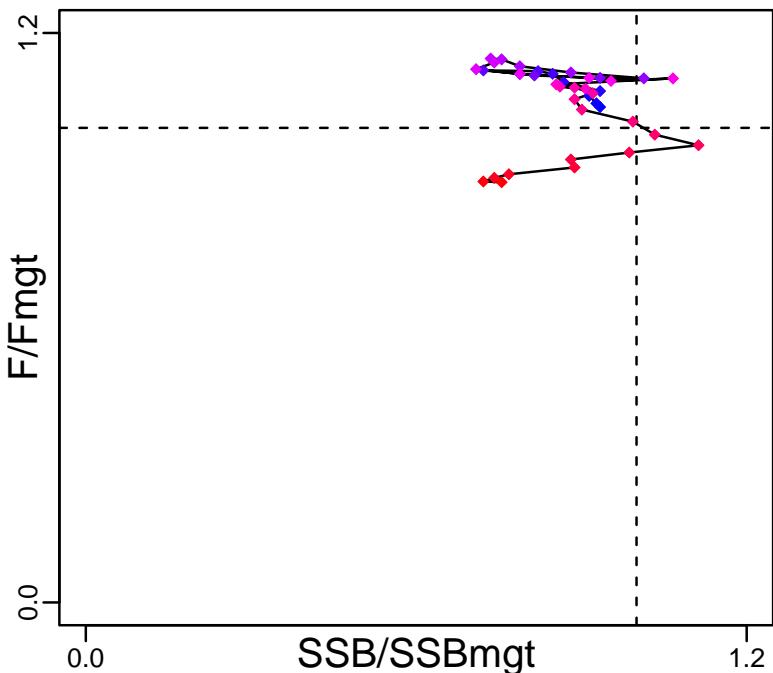
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLEVIIId-1981-2023-ICESIMP2024
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM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

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

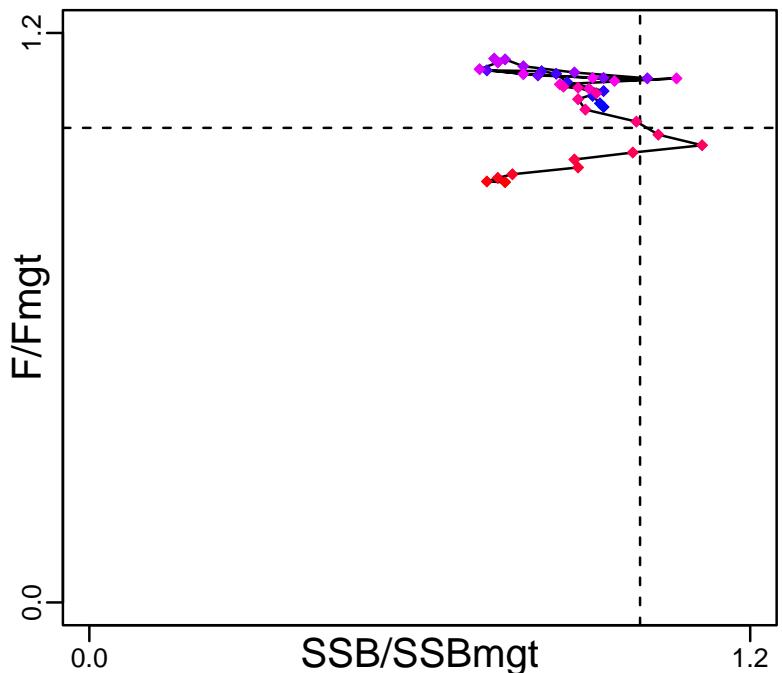
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2018	17,300	Both	-	
SSB	SSB-MT	2023	11,670	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	16,105	-	1	
F	F-1/yr	2023	0.226	-	-	
ER	ER-calc-ratio	2018	0.14	-	-	
TC	TC-MT	2019	2200			
TL	TL-MT	2023	1694			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr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

Common sole Eastern English Channel [SOLEVId]

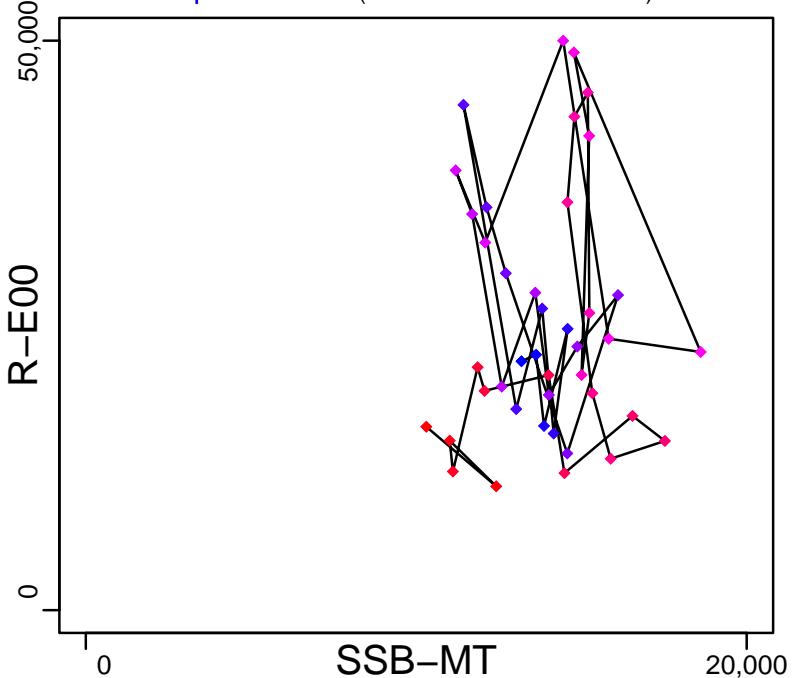
Kobe MSYpref (1982–2021–ICESIMP2021–2)



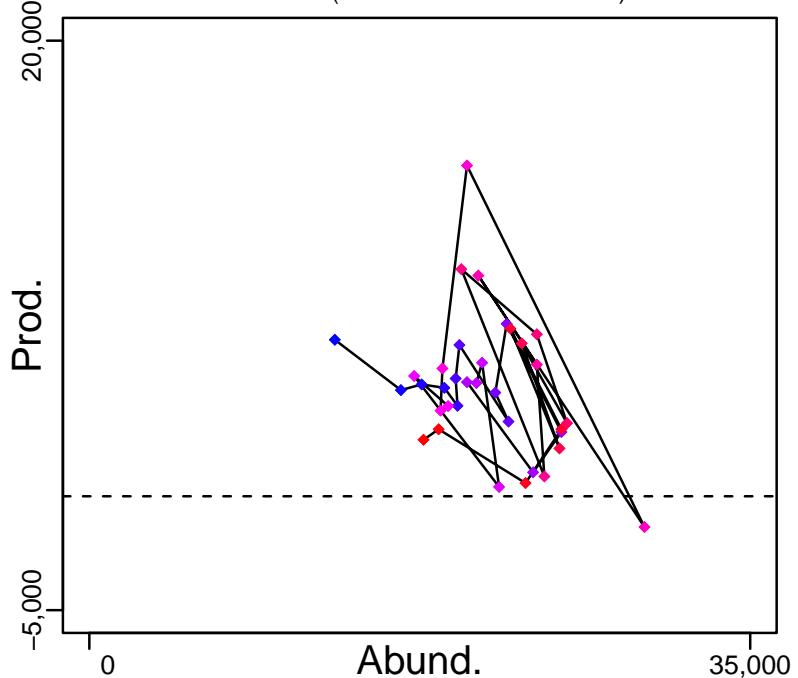
Kobe MGTpref (1982–2021–ICESIMP2021–2)



Spawner Recruit (1981–2023–ICESIMP2024)



Production (1981–2018–ICESIMP2018)

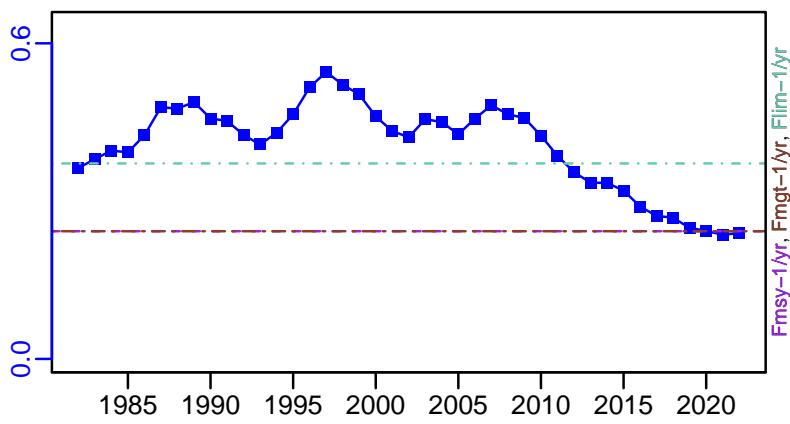
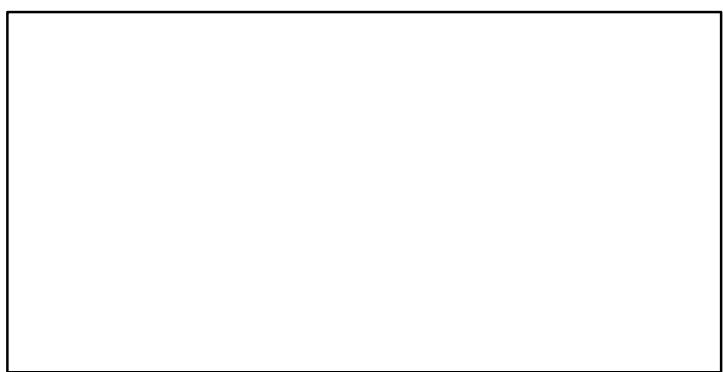
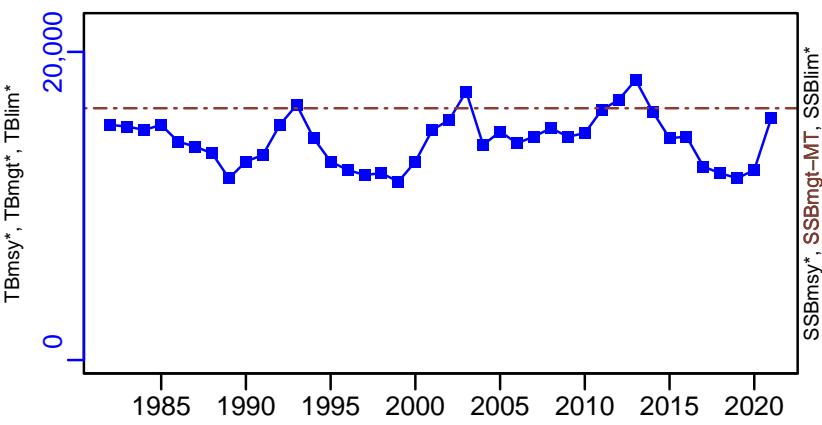
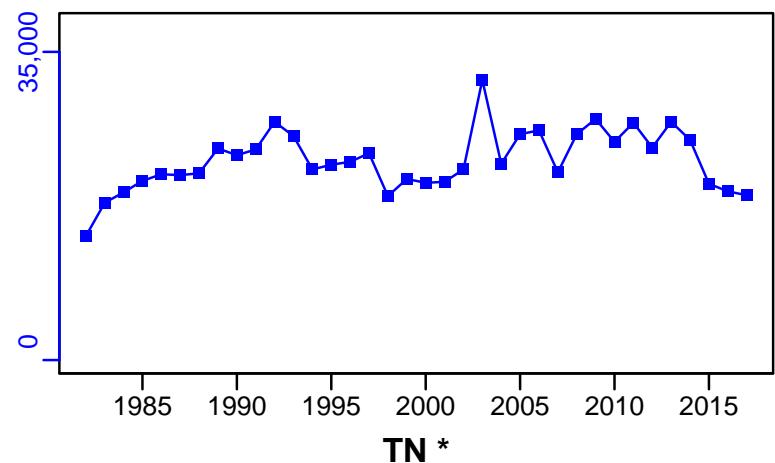


◆ Start Year ♦ End Year * No Data

Common sole Eastern English Channel [SOLEVId]

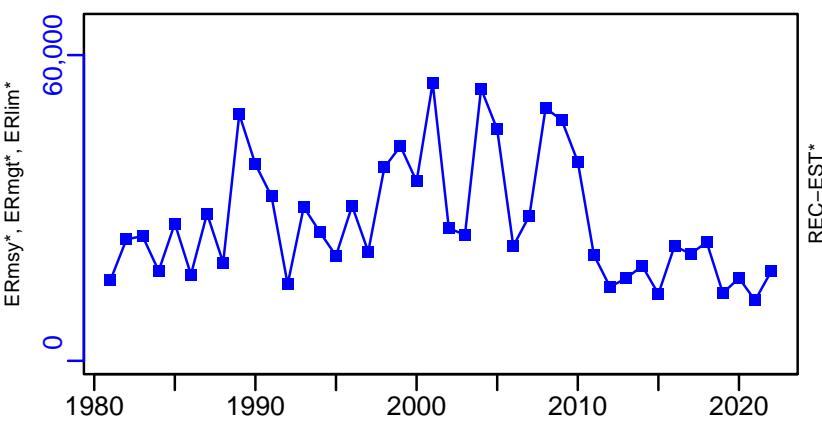
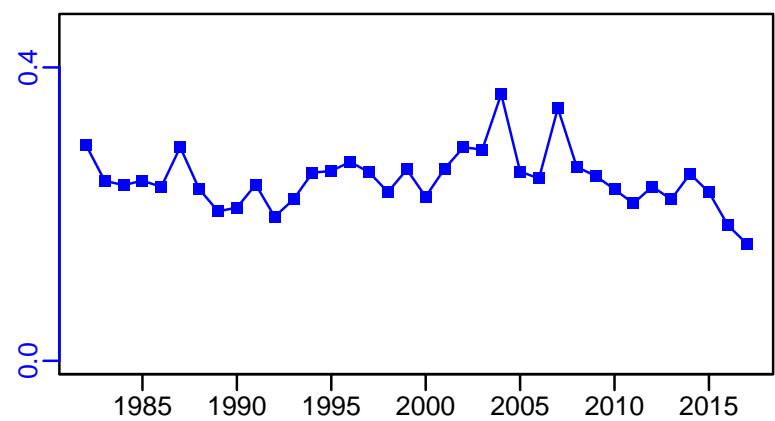
TB-MT (1981–2018–ICESIMP2018)

SSB-MT (1982–2021–ICESIMP2021–2)



ER-calc-ratio (1981–2018–ICESIMP2018)

R-E00 (1981–2023–ICESIMP2024)

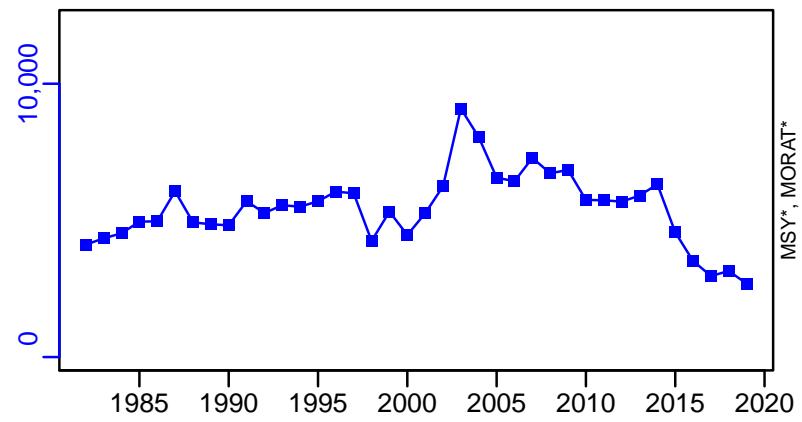


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

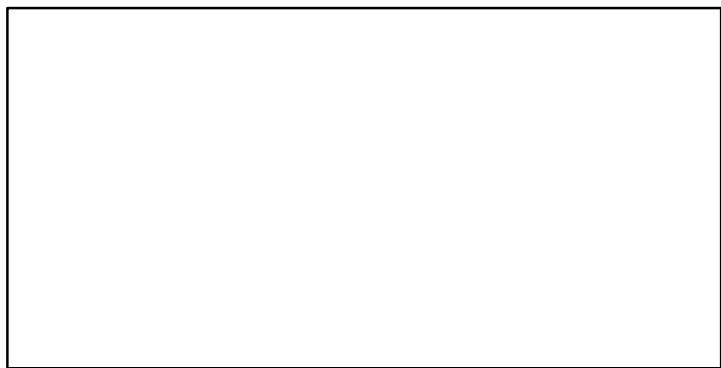
Common sole Eastern English Channel [SOLEVId]

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

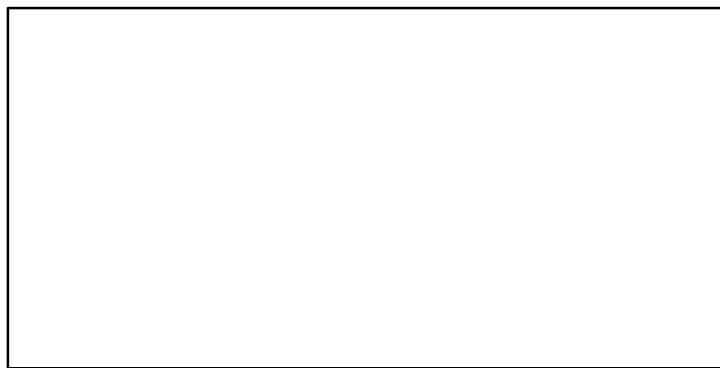
TAC*, Cpair*, Cadv*



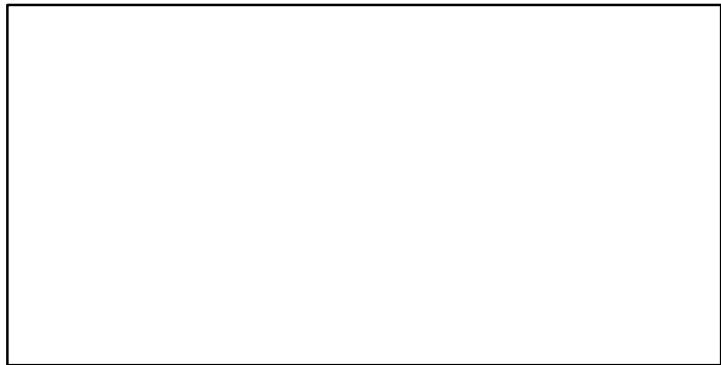
survB*



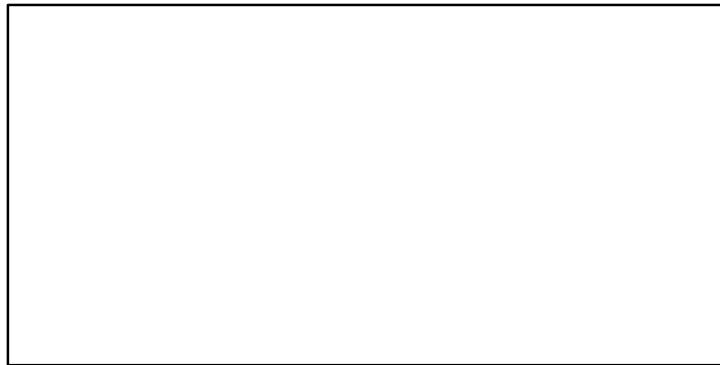
CPUE*



EFFORT*



CdivMSY*



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

Common sole Western English Channel [SOLEVIIe]

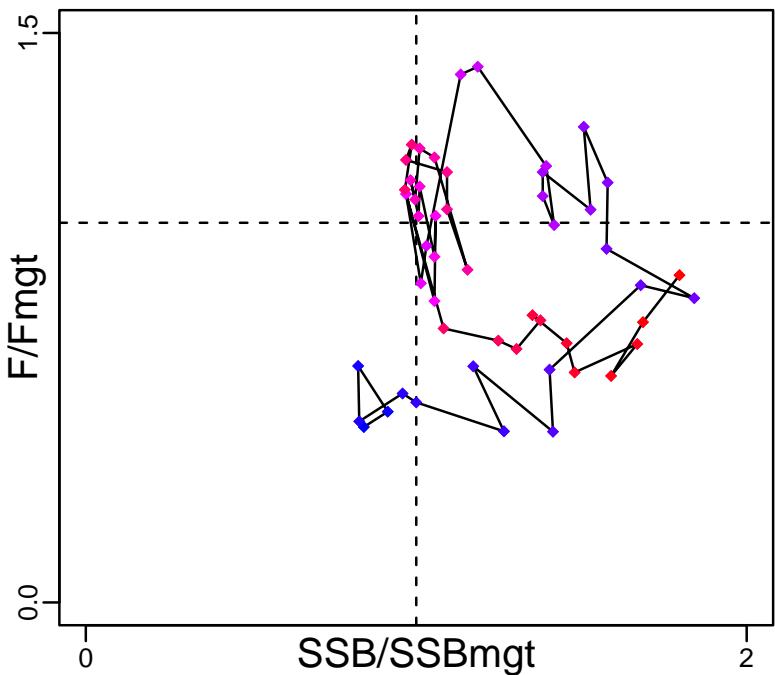
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSSE-SOLEVIIe-1969-2021-ICESIMP2021-2
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2013, 2014,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

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

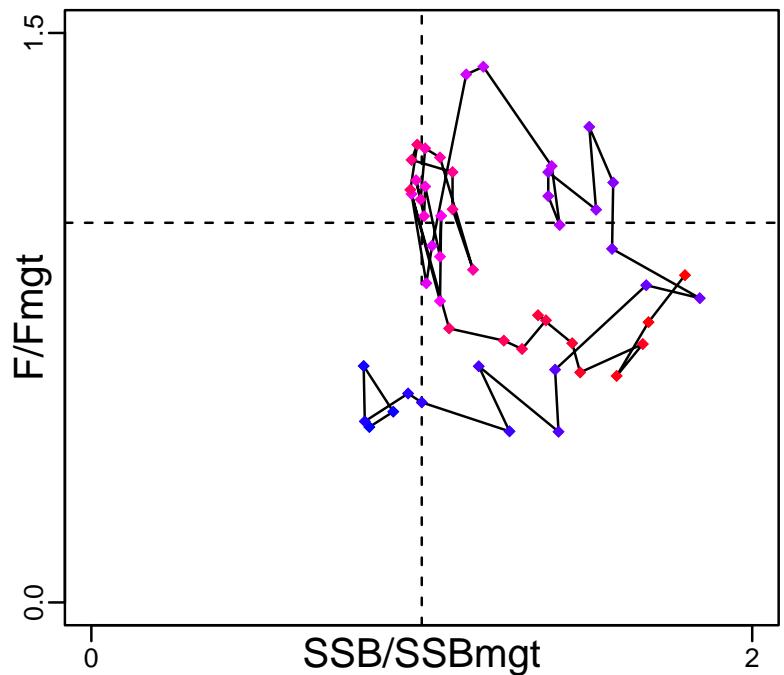
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5934	-	-
SSB	SSB-MT	2021	6080	-	-
TN	-	-	-	-	-
R	R-E00	2021	4,970,000	-	2
F	F-1/yr	2021	0.258	-	-
ER	ER-calc-ratio	2019	0.181	-	-
TC	TC-MT	2017	924		
TL	TL-MT	2021	1220		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021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

Common sole Western English Channel [SOLEVIIe]

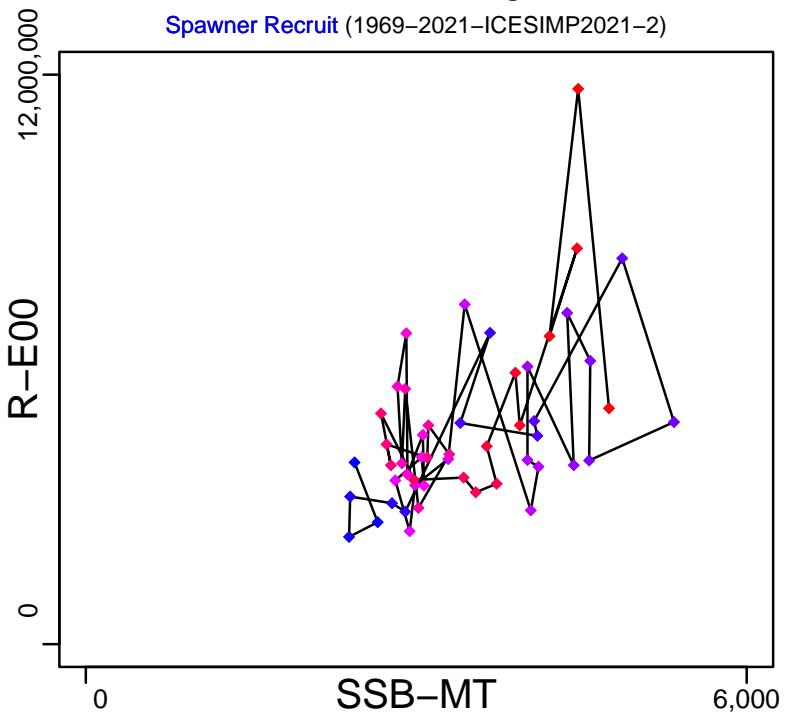
Kobe MSYpref (1969–2020–ICESIMP2021–2)



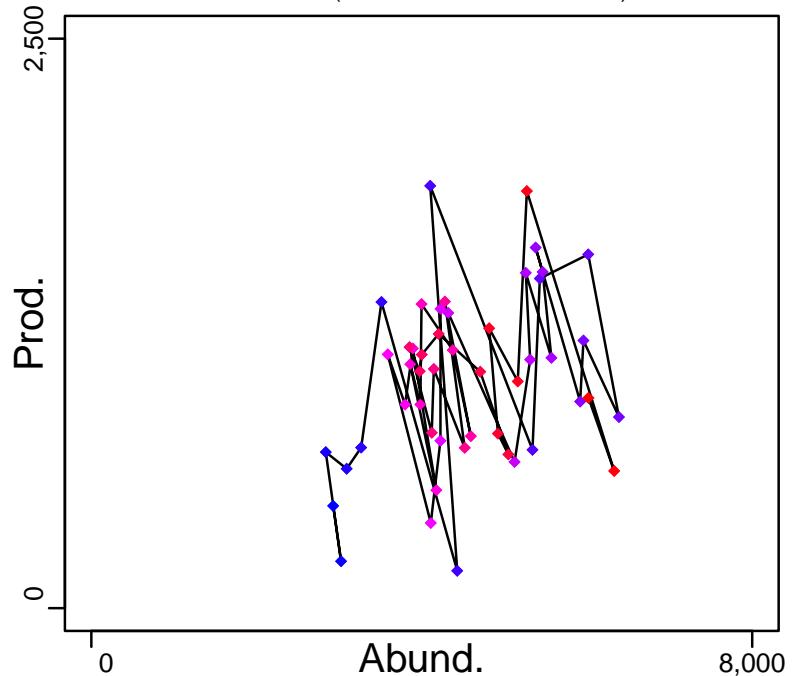
Kobe MGTpref (1969–2020–ICESIMP2021–2)



Spawner Recruit (1969–2021–ICESIMP2021–2)



Production (1967–2019–ICESIMP2021)

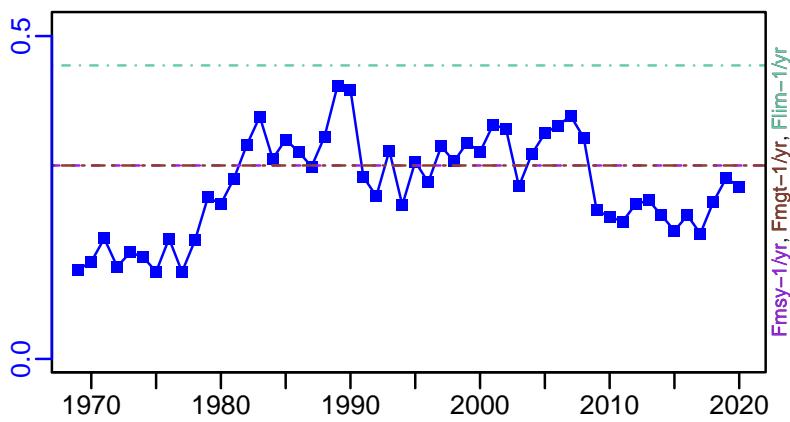
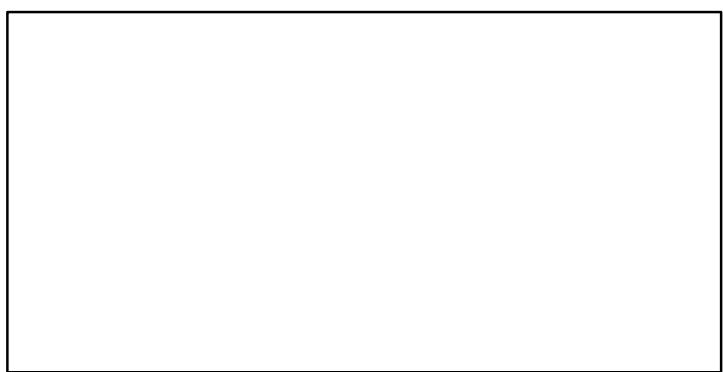
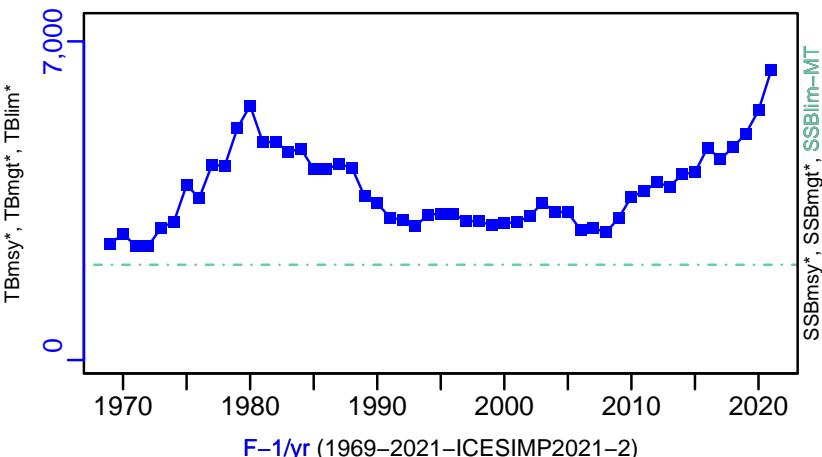
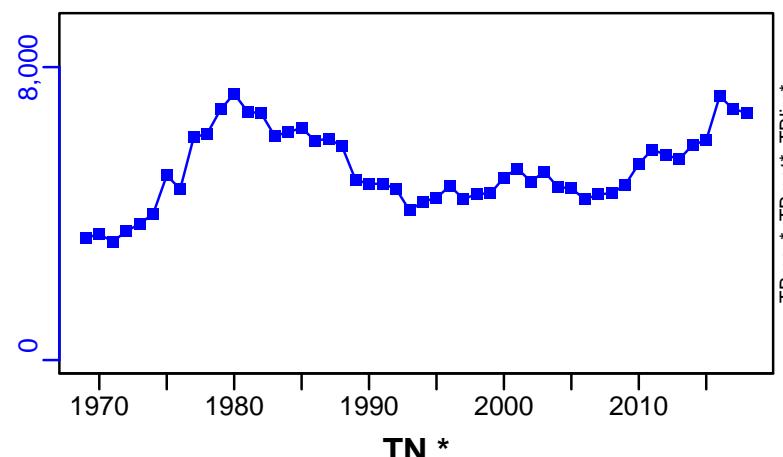


◆ Start Year ◆ End Year * No Data

Common sole Western English Channel [SOLEVille]

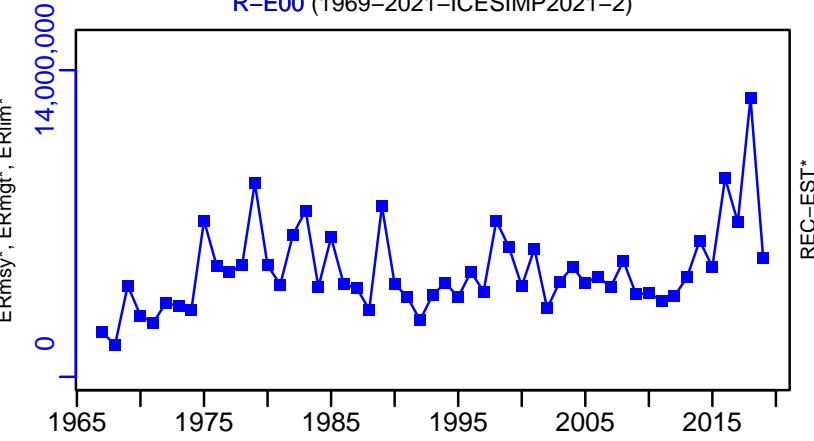
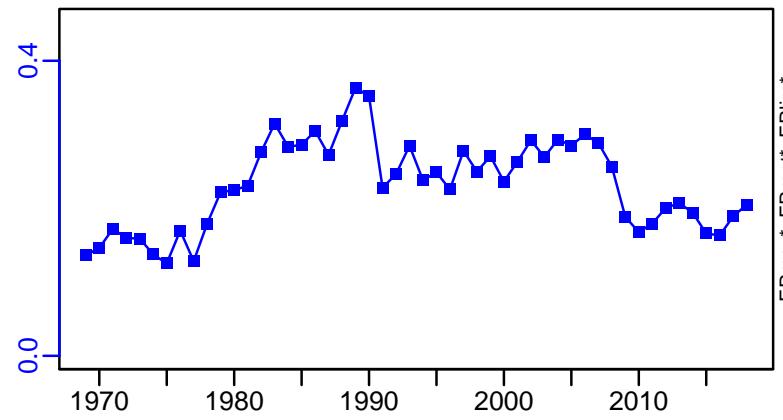
TB-MT (1967–2019–ICESIMP2021)

SSB-MT (1969–2021–ICESIMP2021–2)



ER-calc-ratio (1967–2019–ICESIMP2021)

R-E00 (1969–2021–ICESIMP2021–2)

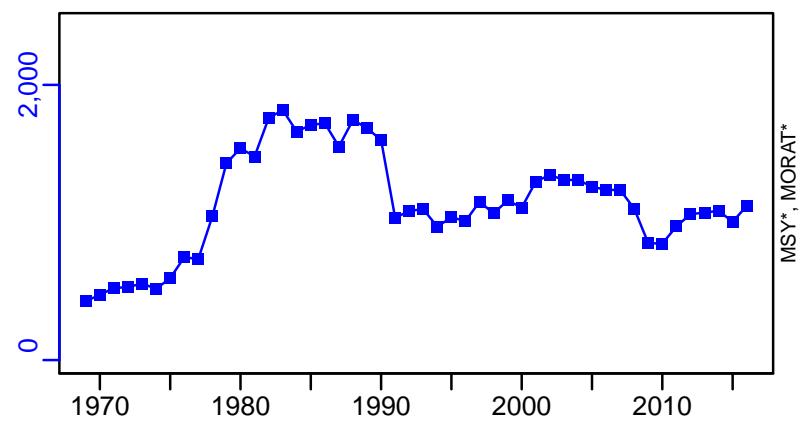


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	--- Lim BRP	* No Data

Common sole Western English Channel [SOLEVIIe]

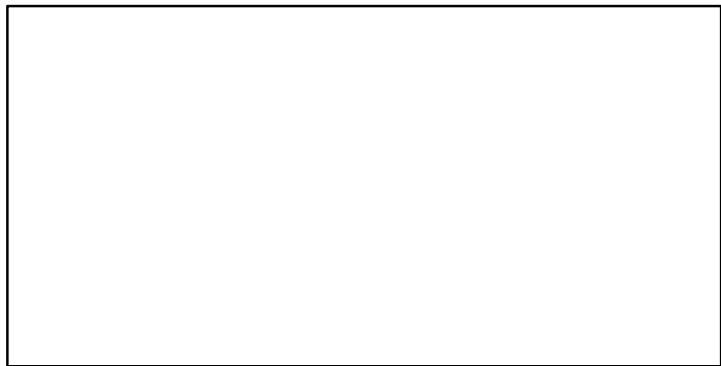
TC-MT, TL*, RecC* (1967–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*

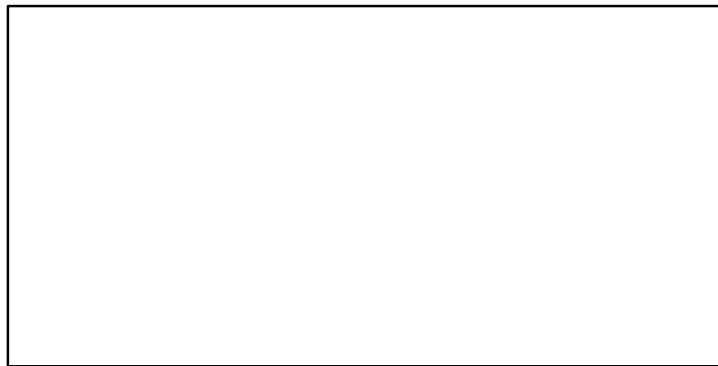


survB*

MSY*, MORAT*



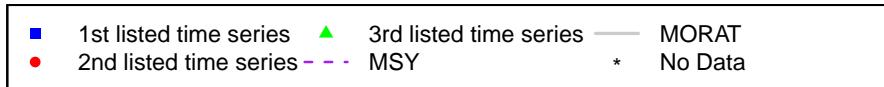
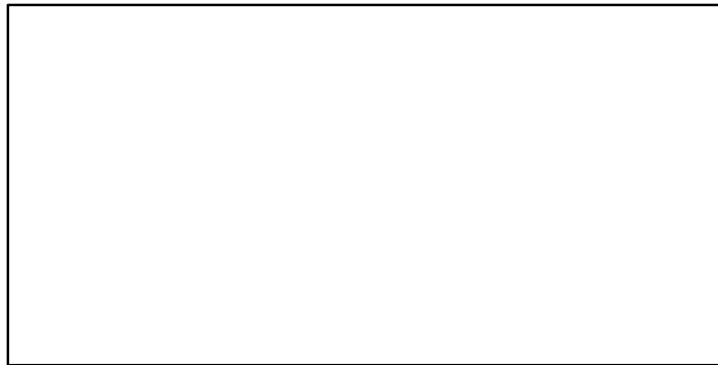
CPUE*



EFFORT*



CdivMSY*

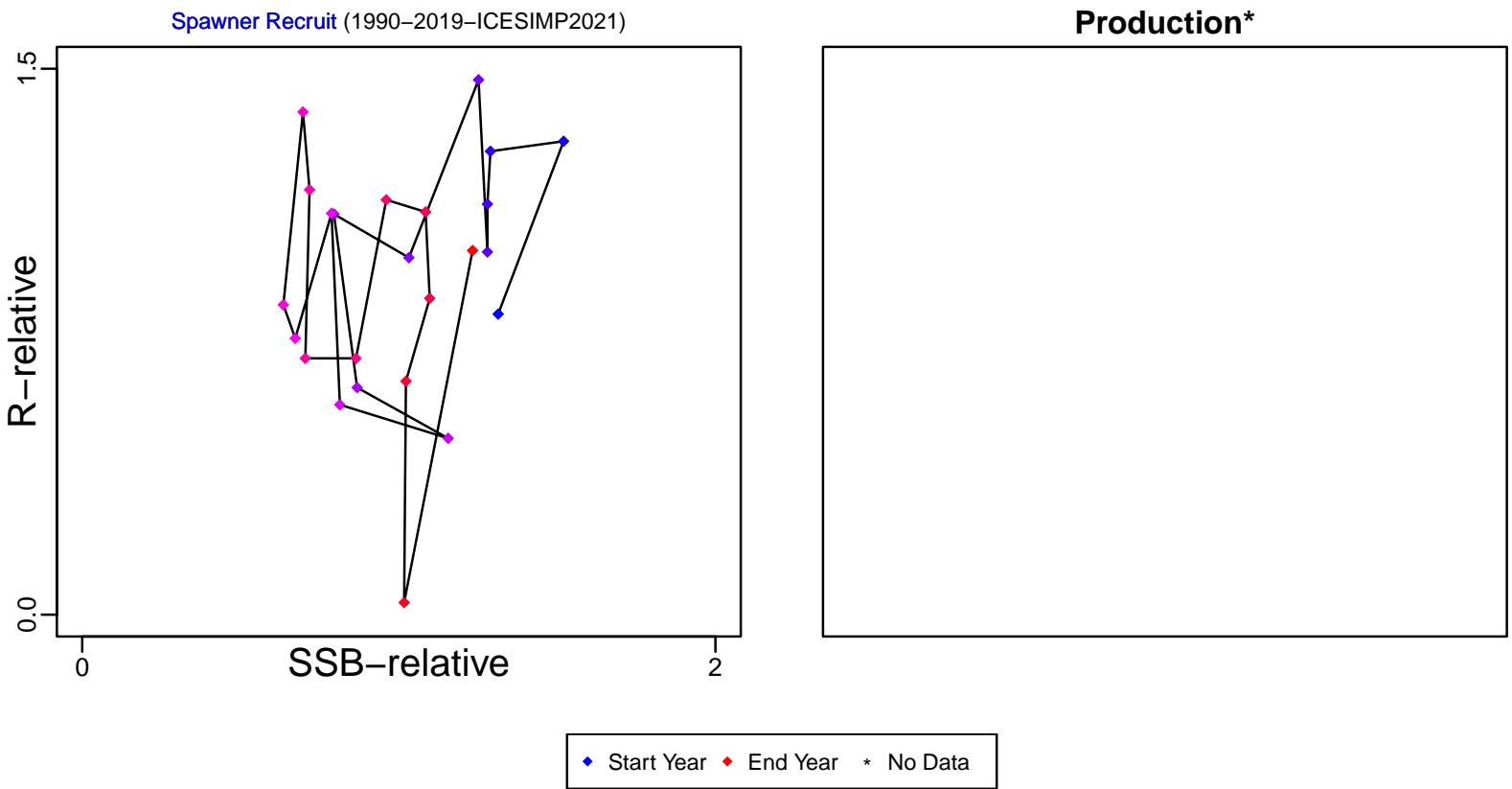


Common sole ICES 7h-k [SOLEVIIh-k]

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

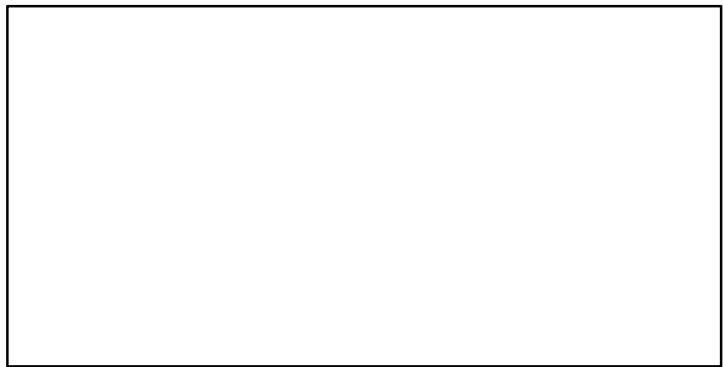
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-relative	2018	0.161
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2019	1.109
Fmgt	Fmgt-relative	2019	0.675
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	425
Flim	Flim-relative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

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

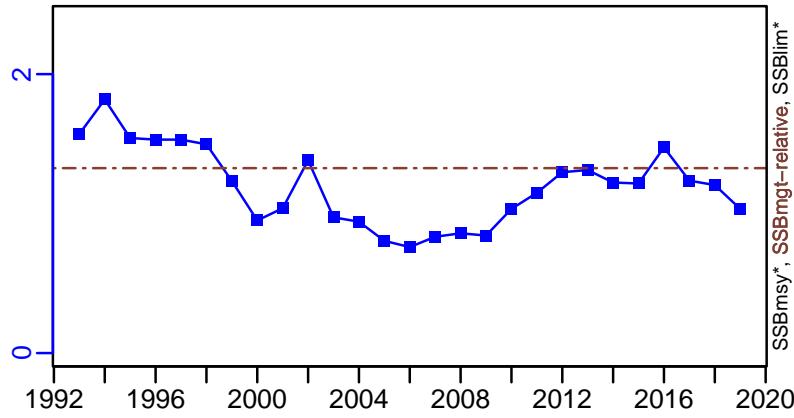
Kobe MSY***Kobe MGT***

Common sole ICES 7h–k [SOLEVIIh–k]

TB*

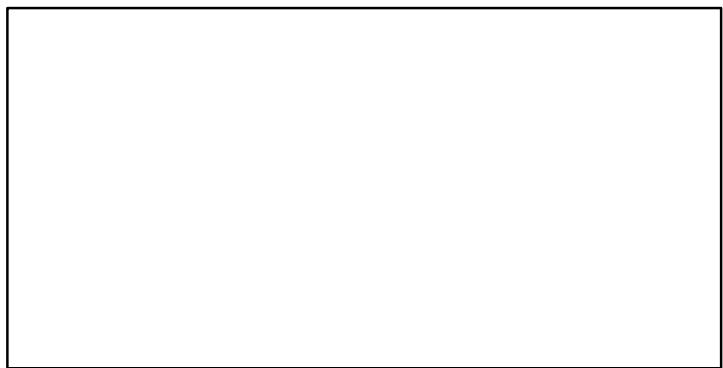


SSB-relative (1990–2019–ICESIMP2021)

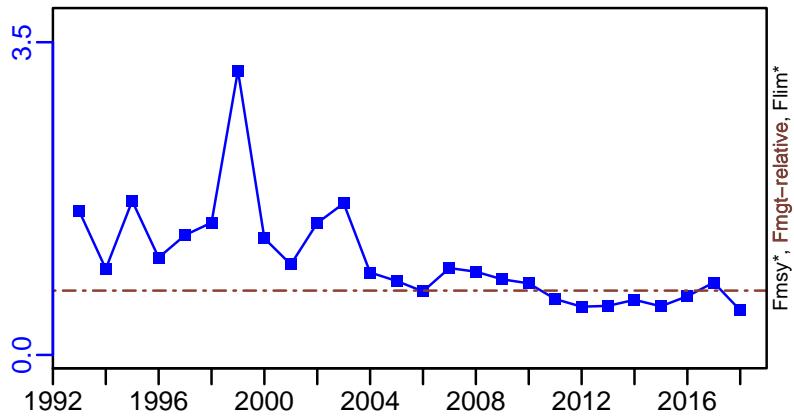


SSB_{msy}* , SSB_{mgtr}-relative, SSB_{lim}*

TN *

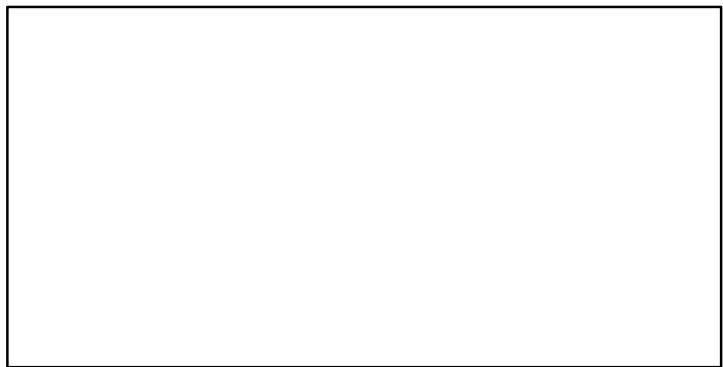


F-relative (1990–2019–ICESIMP2021)

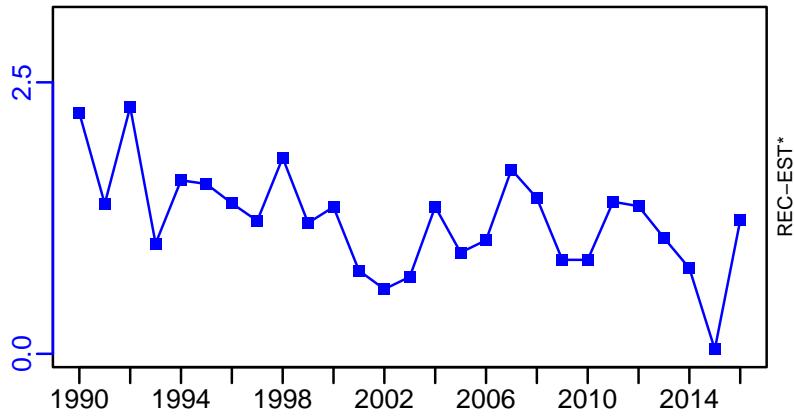


F_{msy}* , F_{mgtr}-relative, F_{lim}*

ER*



R-relative (1990–2019–ICESIMP2021)



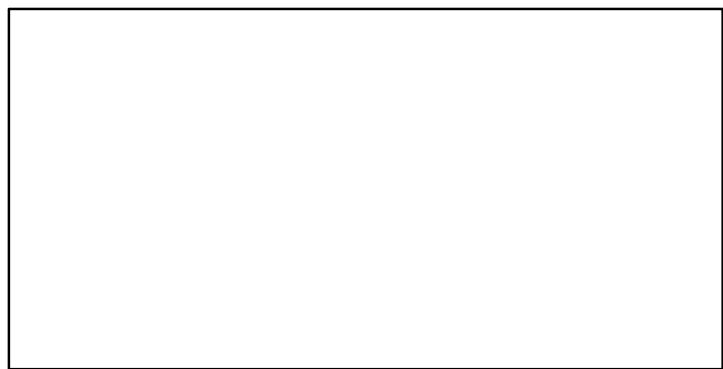
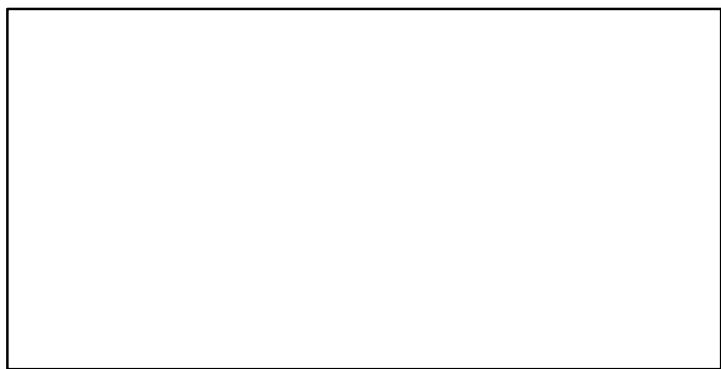
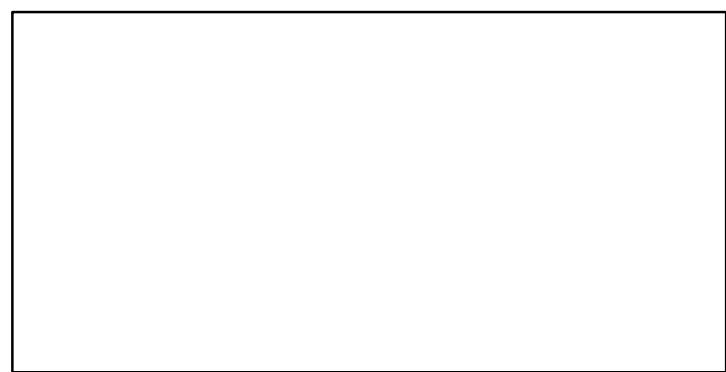
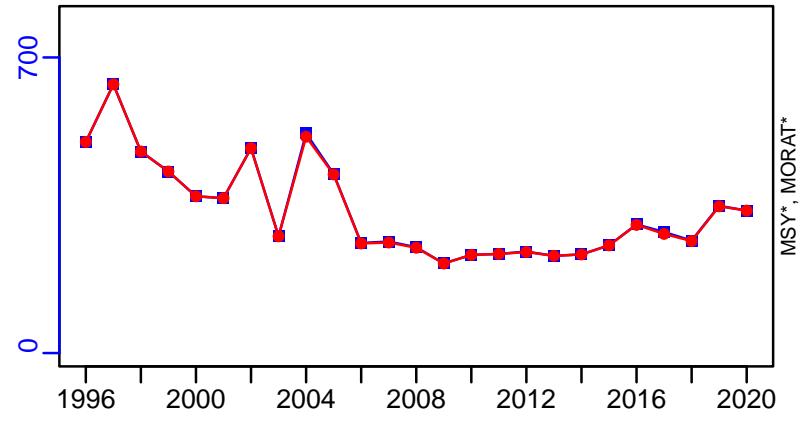
R_{msy}* , R_{mgtr}-relative, R_{lim}*

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

Common sole ICES 7h–k [SOLEVIIh–k]

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

TAC*, Cpair*, Cadv*



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

Common sole ICES 8ab [SOLEVIIIab]

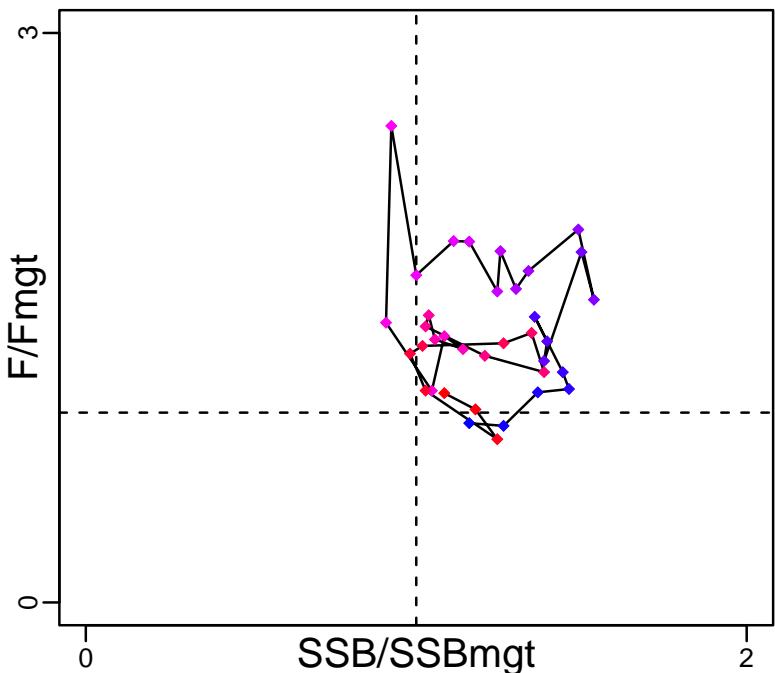
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVIIIab-1984-2020-ICESIMP2021-2
Area	ICES 8ab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2018, 2019, 2014,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

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

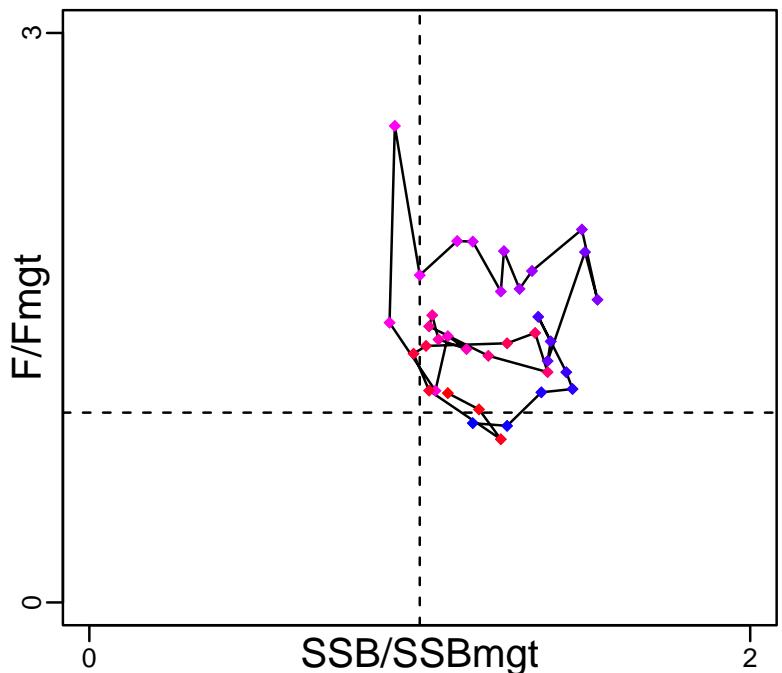
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	16,000	Both	-
SSB	SSB-MT	2020	11,800	-	-
TN	-	-	-	-	-
R	R-E00	2020	18,500,000	-	2
F	F-1/yr	2020	0.364	-	-
ER	ER-calc-ratio	2018	0.206	-	-
TC	TC-MT	2018	3300		
TL	TL-MT	2020	3400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Common sole ICES 8ab [SOLEVIIIab]

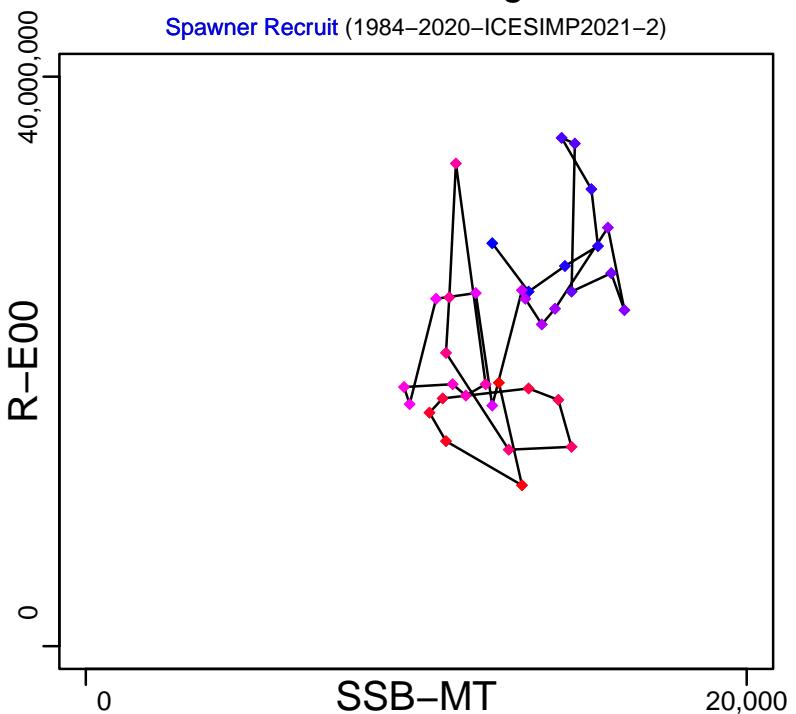
Kobe MSYpref (1984–2020–ICESIMP2021–2)



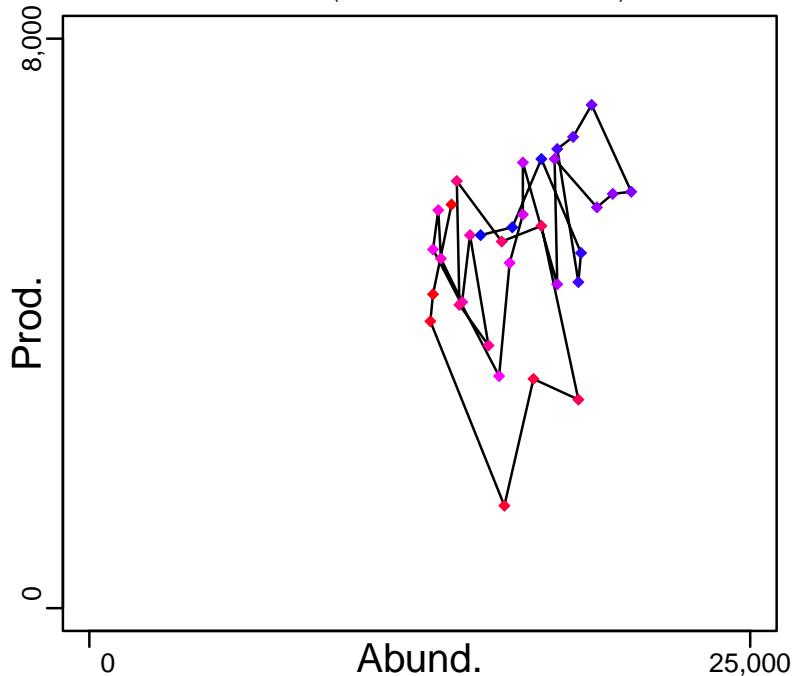
Kobe MGTpref (1984–2020–ICESIMP2021–2)



Spawner Recruit (1984–2020–ICESIMP2021–2)



Production (1982–2018–ICESIMP2018)

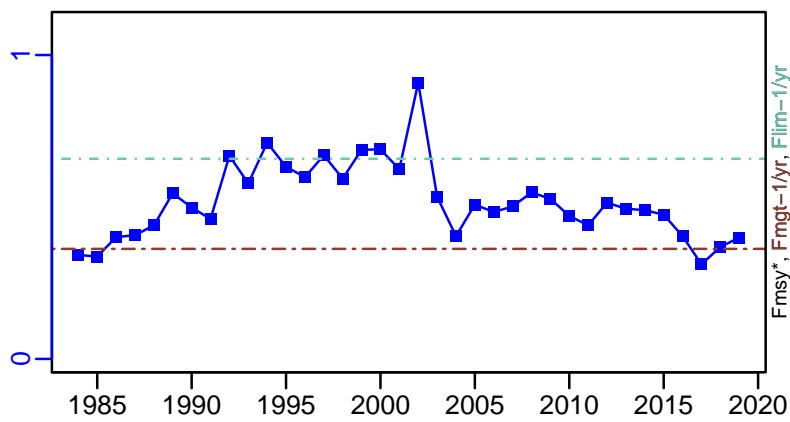
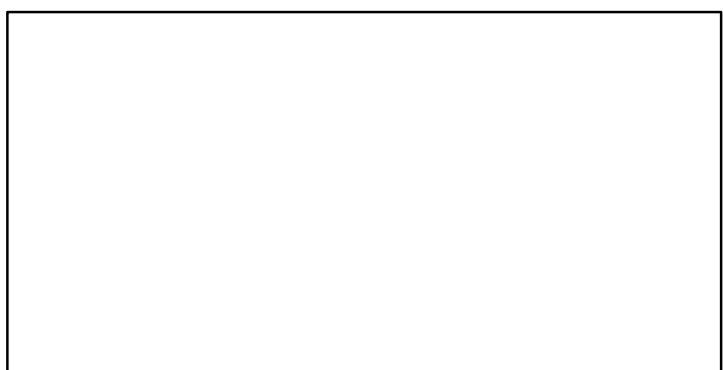
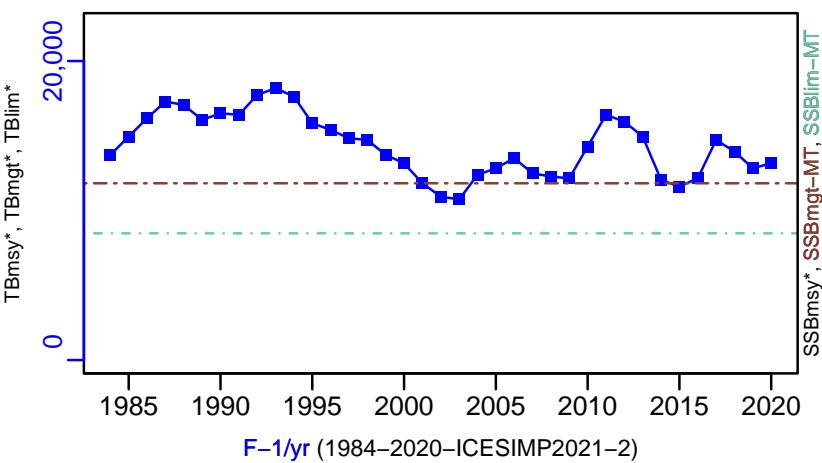
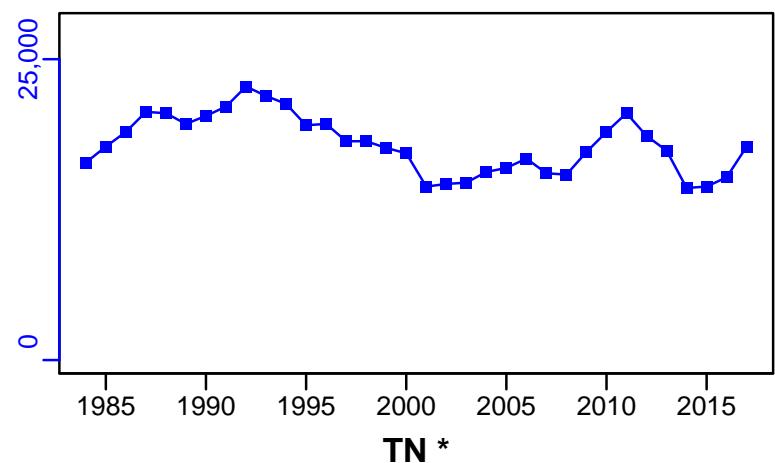


◆ Start Year ◆ End Year * No Data

Common sole ICES 8ab [SOLEVIIlab]

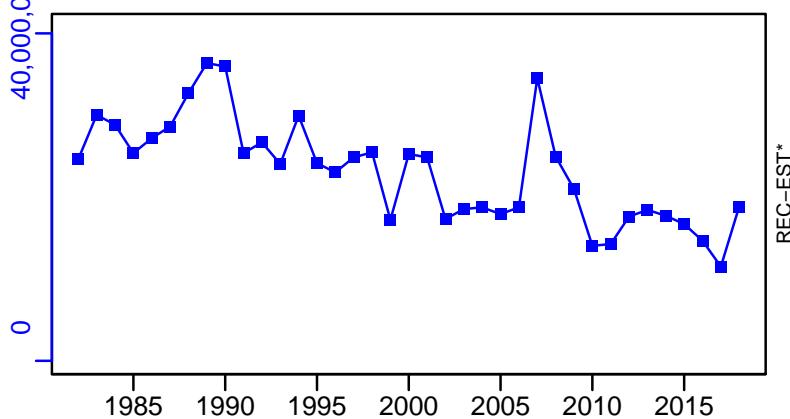
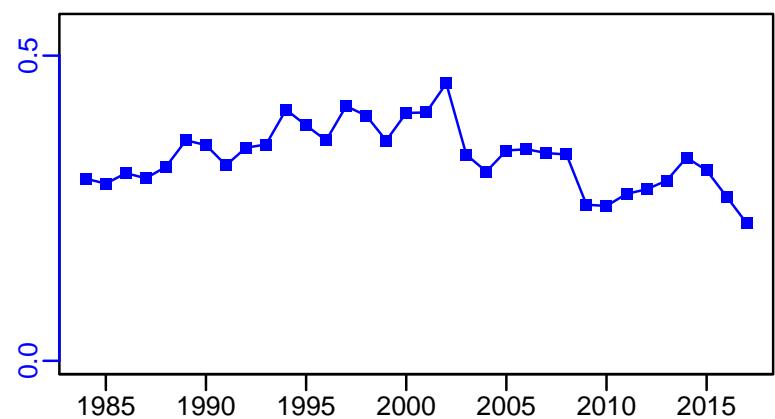
TB-MT (1982–2018–ICESIMP2018)

SSB-MT (1984–2020–ICESIMP2021–2)



ER-calc-ratio (1982–2018–ICESIMP2018)

R-E00 (1984–2020–ICESIMP2021–2)

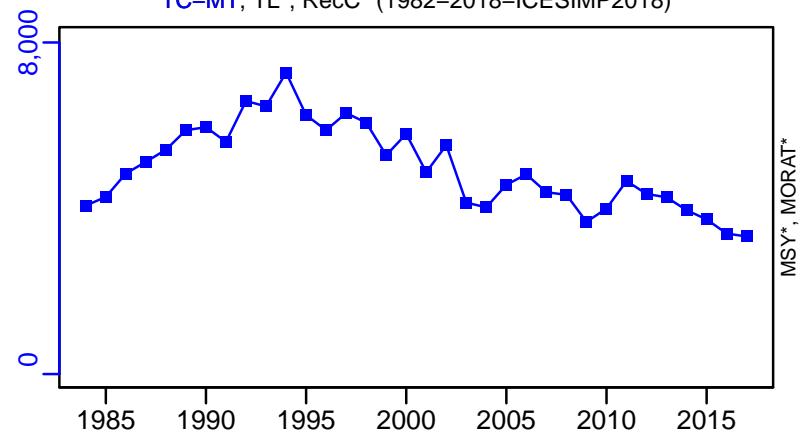


■ Listed time series	— Target BRP	— Rec-Est
- MSY-based BRP	- Lim BRP	* No Data

Common sole ICES 8ab [SOLEVIIlab]

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

TAC*, Cpair*, Cadv*



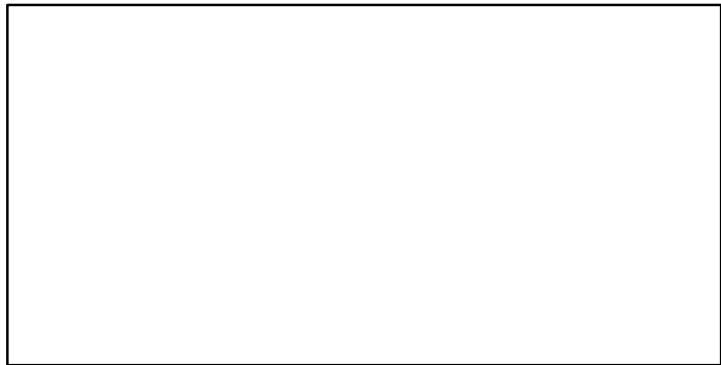
survB*



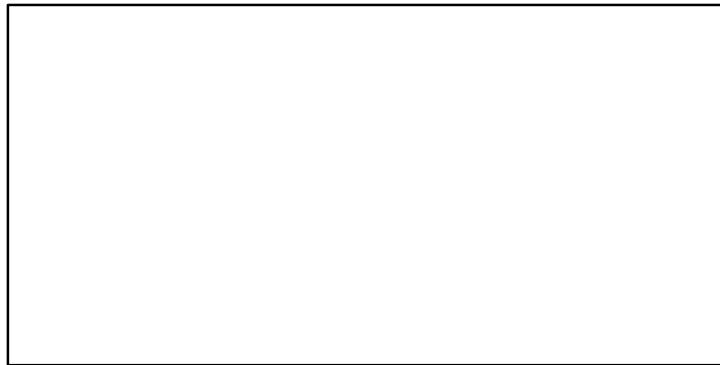
CPUE*



EFFORT*



CdivMSY*



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

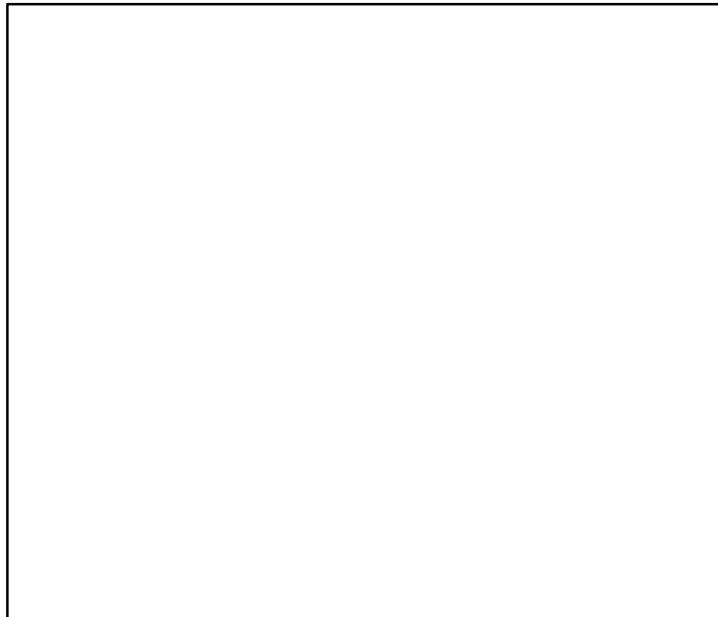
Common sole ICES 8c-9a [SOLEVIIIC-IXa]

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

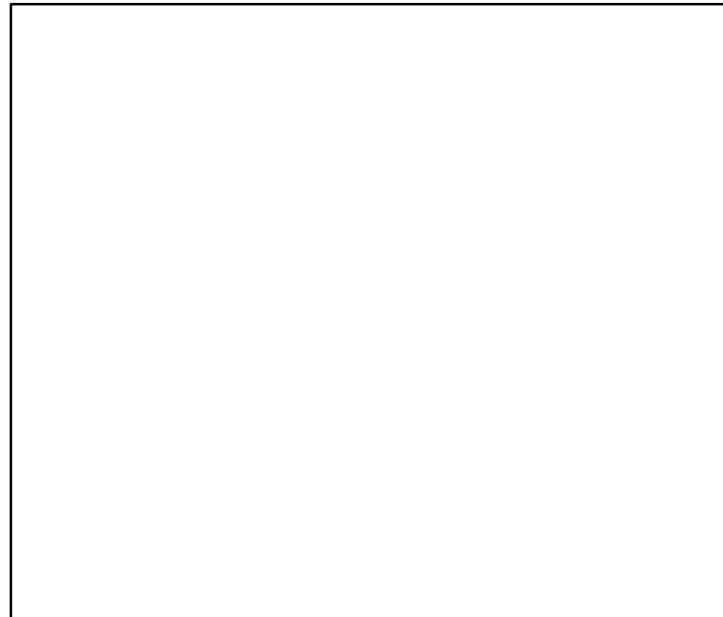
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



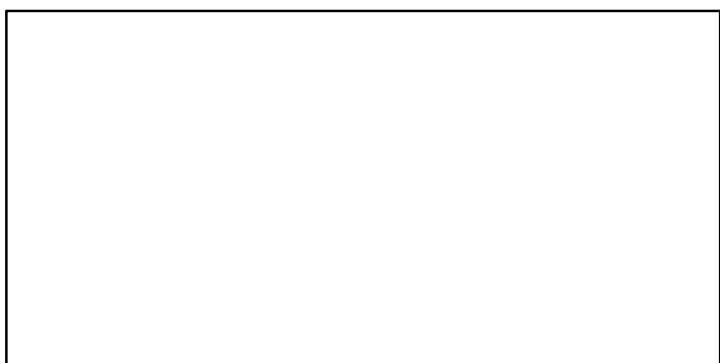
TN *



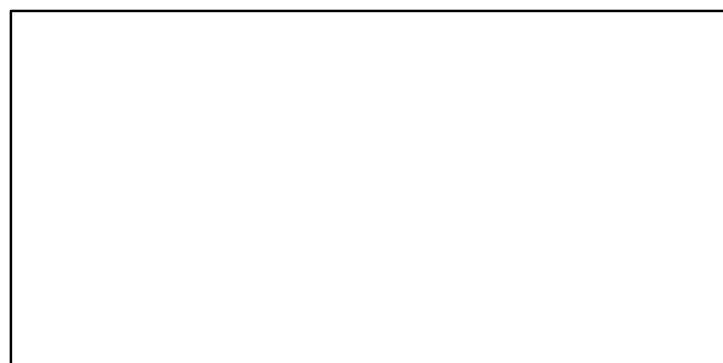
F*



ER*



Recruits*

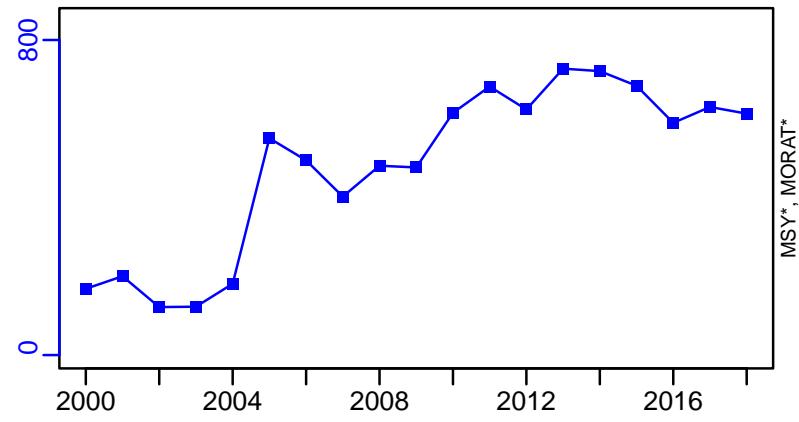


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

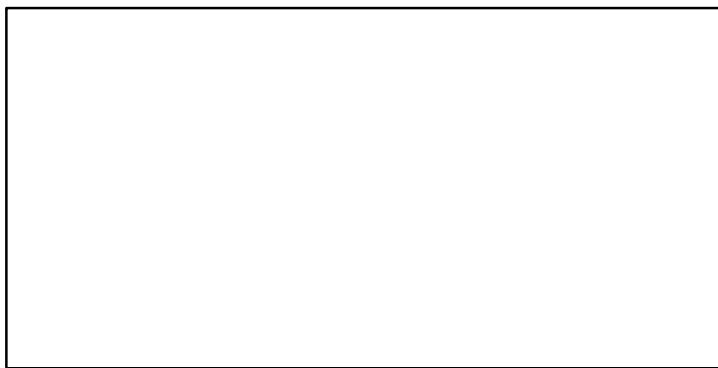
Common sole ICES 8c–9a [SOLEVIIIC–IXa]

TL–MT, TC*, RecC* (2000–2018–ICESIMP2021)

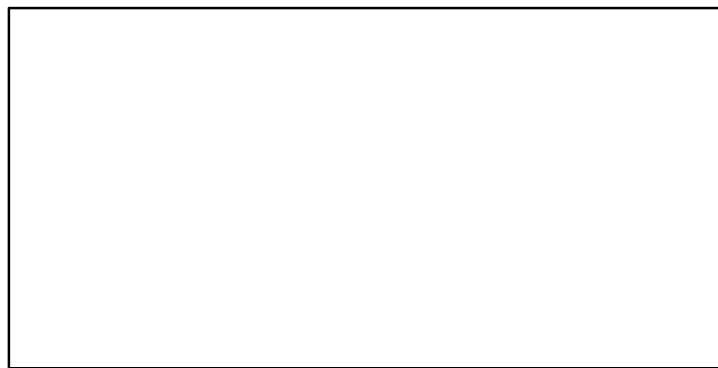
TAC*, Cpair*, Cadv*



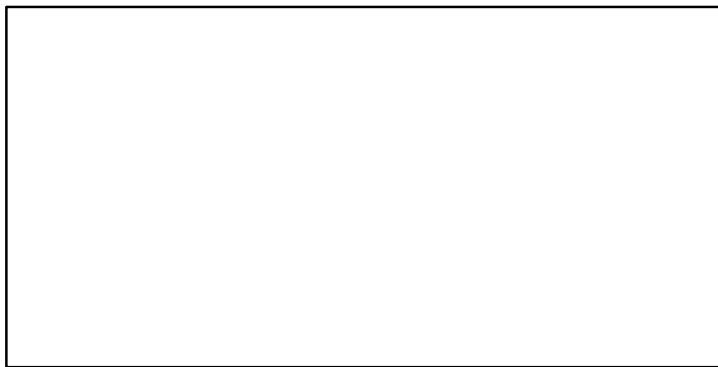
survB*



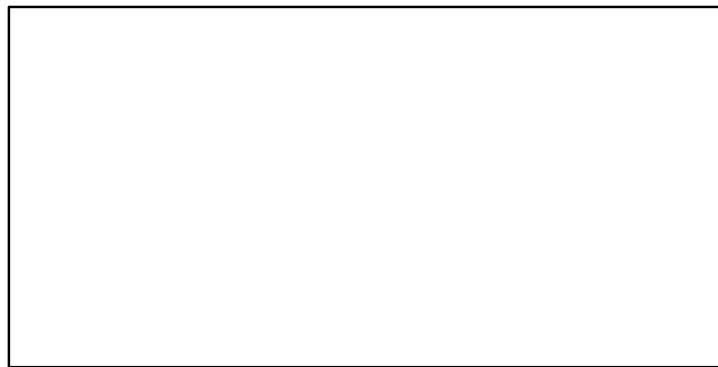
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Sprat Baltic Areas 22-32 [SPRAT22-32]

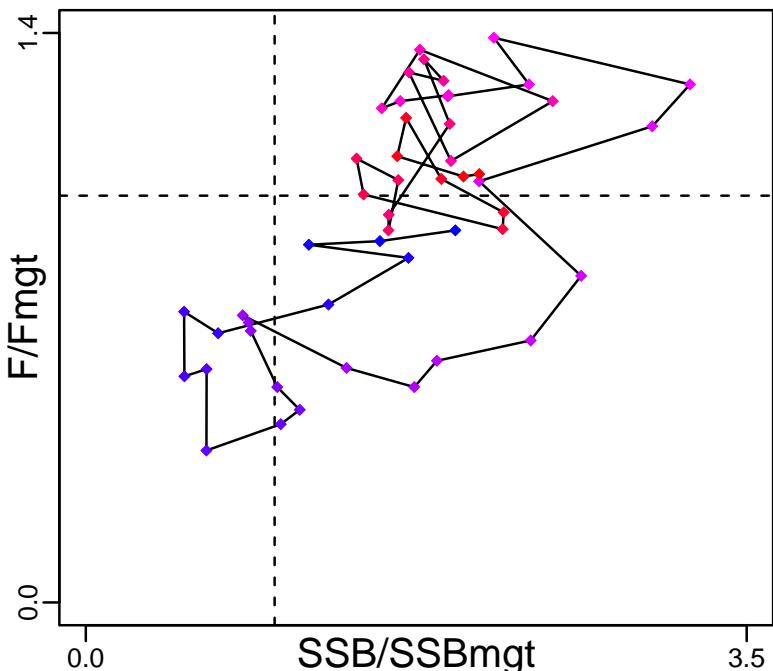
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	WGBFAS-SPRAT22-32-1973-2023-ICESIMP2024
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2023	541,000
Fmgt	Fmgt-1/yr	2023	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	459,000
Flim	Flim-1/yr	2023	0.49
ERlim	-	-	-

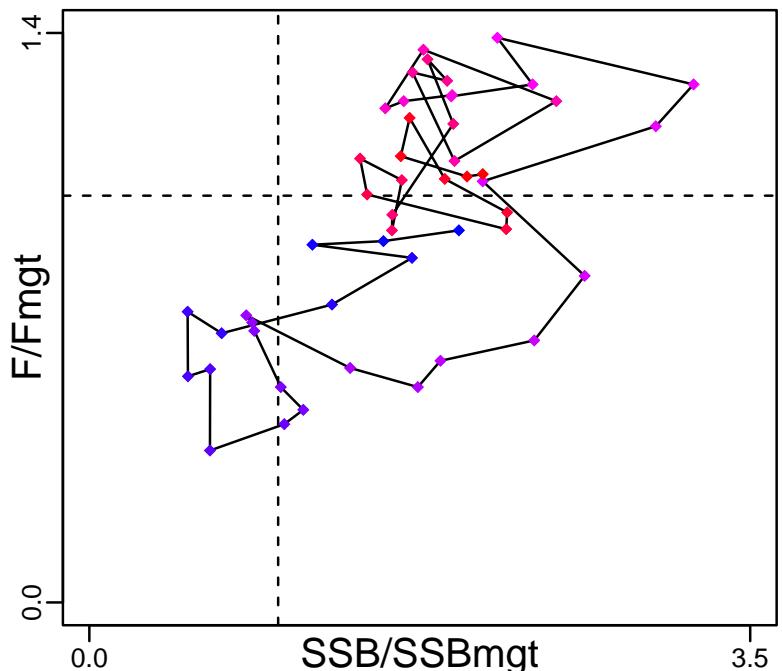
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	1,664,000	-	-	
SSB	SSB-MT	2023	903,773	-	-	
TN	-	-	-	-	-	
R	R-E00	2023	43,773,000	-	1	
F	F-1/yr	2023	0.358	-	3 to 5	
ER	ER-calc-ratio	2019	0.176	-	-	
TC	TC-MT	2021	272,000			
TL	TL-MT	2023	301,409			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.187			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2023	1.671			
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.053			
ER/ERmgt	-	-	-			

Sprat Baltic Areas 22–32 [SPRAT22–32]

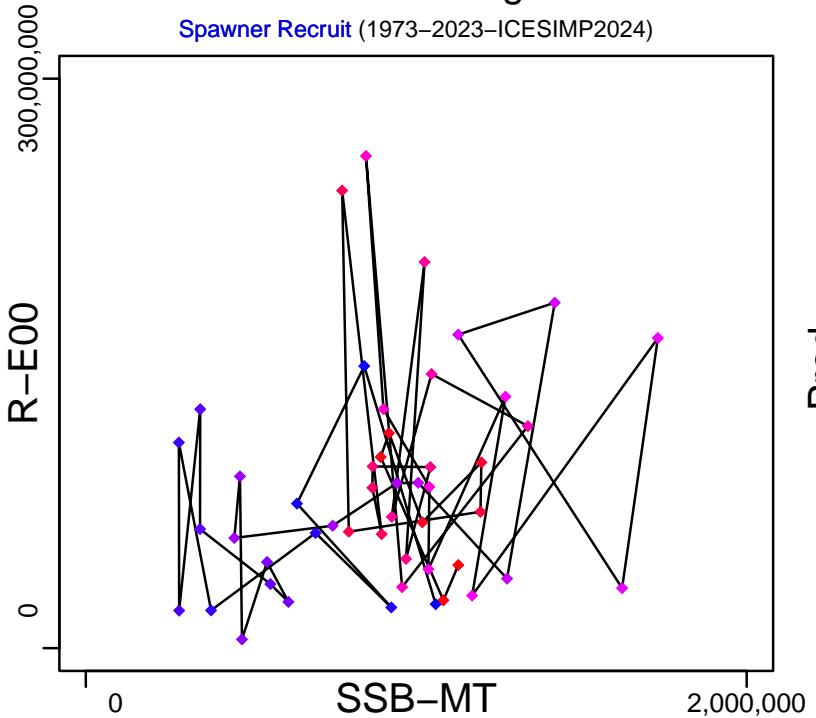
Kobe MSYpref (1973–2023–ICESIMP2024)



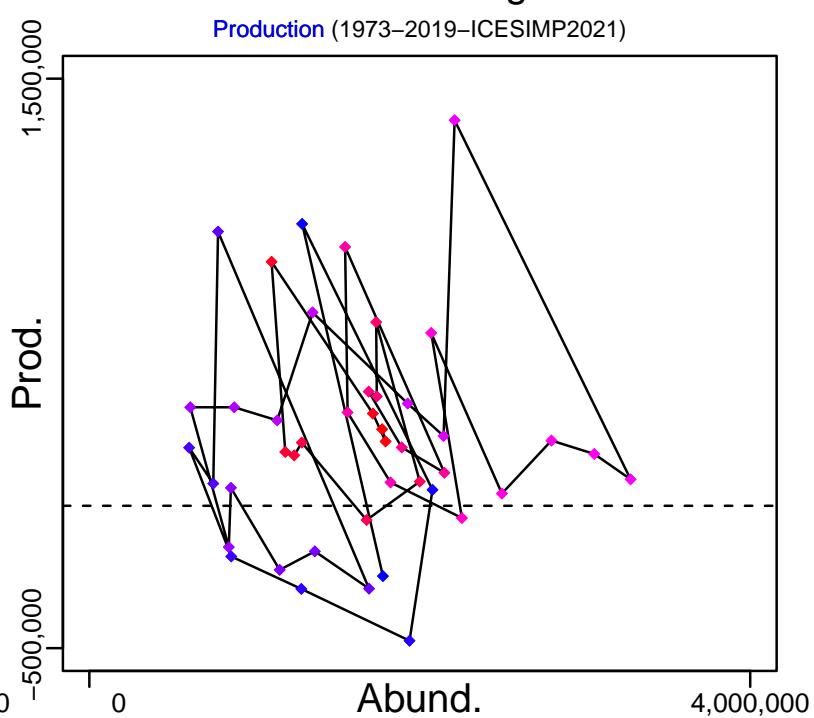
Kobe MGTpref (1973–2023–ICESIMP2024)



Spawner Recruit (1973–2023–ICESIMP2024)



Production (1973–2019–ICESIMP2021)

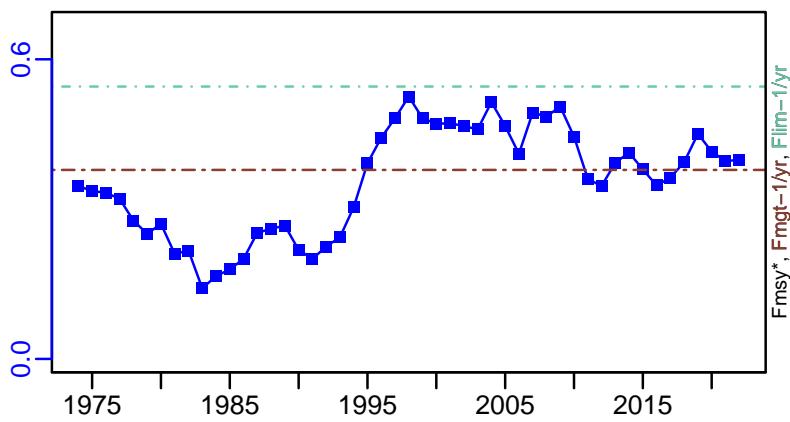
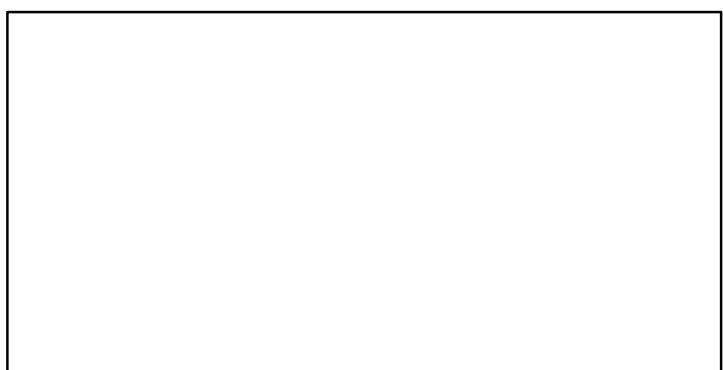
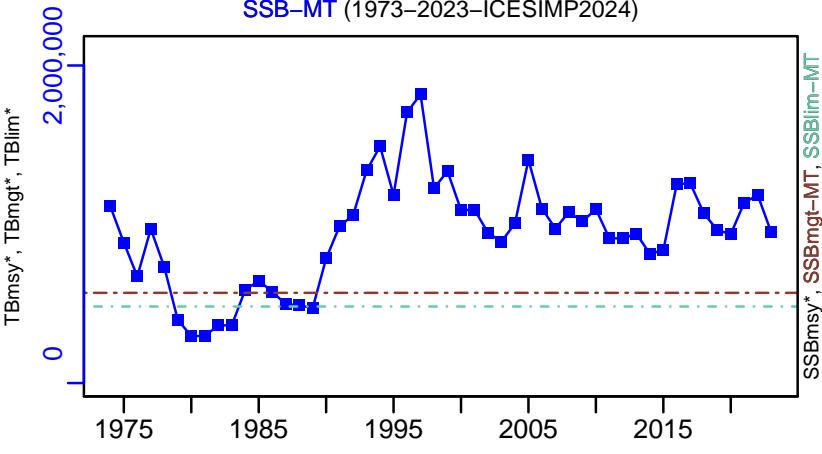
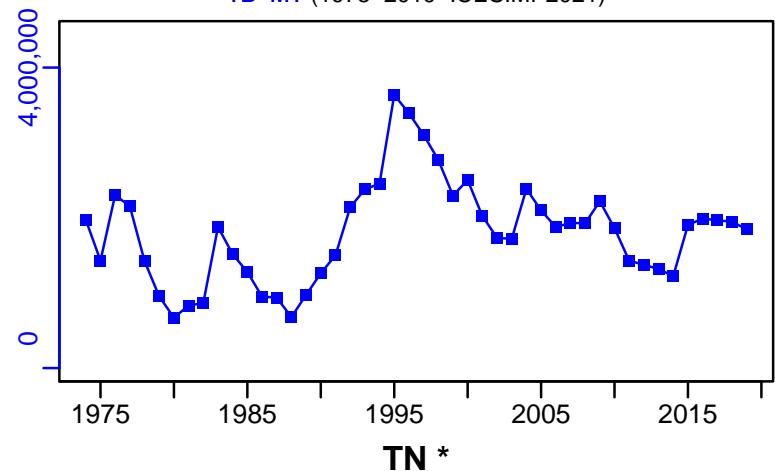


◆ Start Year ◆ End Year * No Data

Sprat Baltic Areas 22–32 [SPRAT22–32]

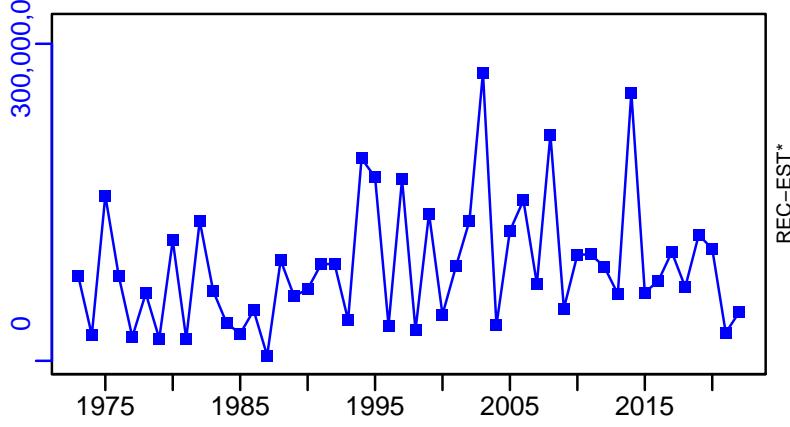
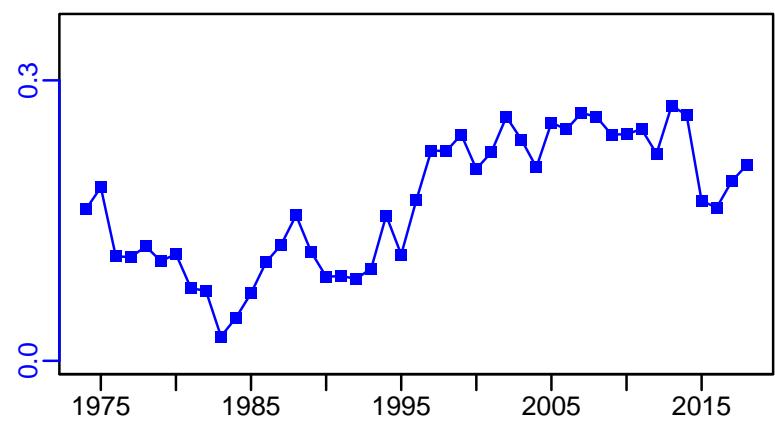
TB-MT (1973–2019–ICESIMP2021)

SSB-MT (1973–2023–ICESIMP2024)



ER-calc-ratio (1973–2019–ICESIMP2021)

R-E00 (1973–2023–ICESIMP2024)

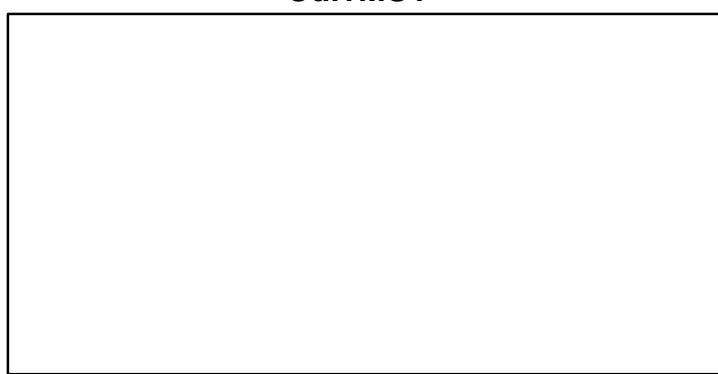
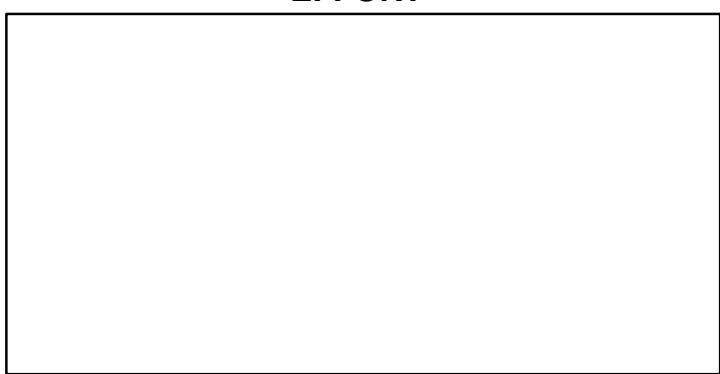
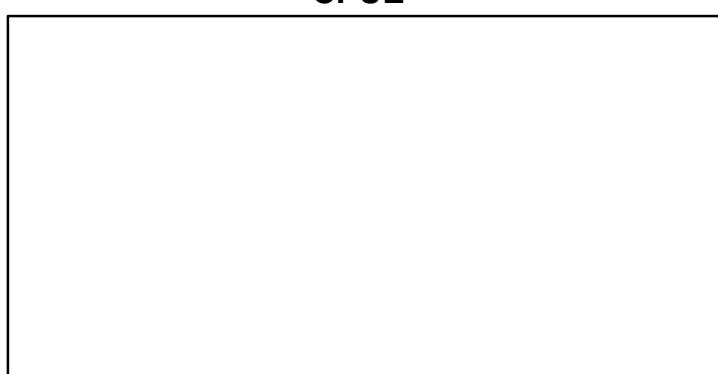
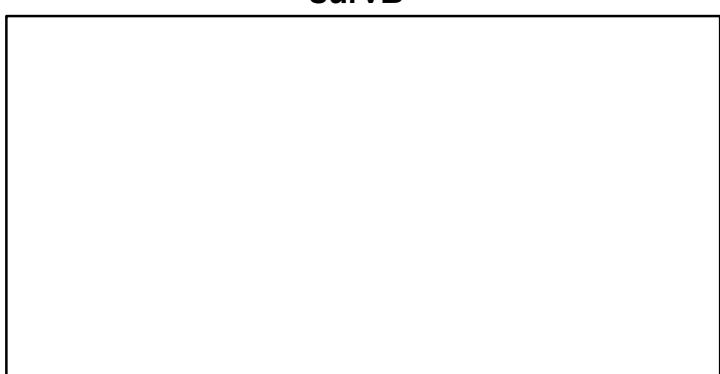
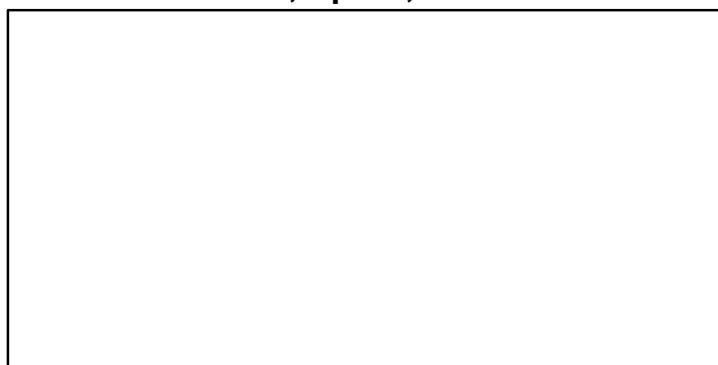
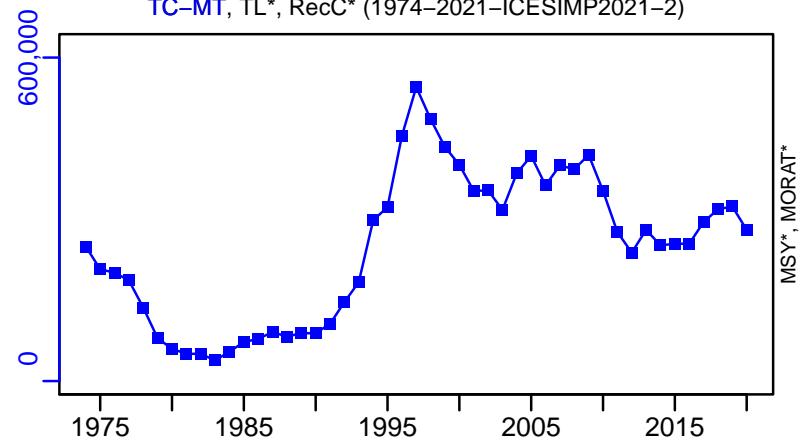


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

Sprat Baltic Areas 22–32 [SPRAT22–32]

TC–MT, TL*, RecC* (1974–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



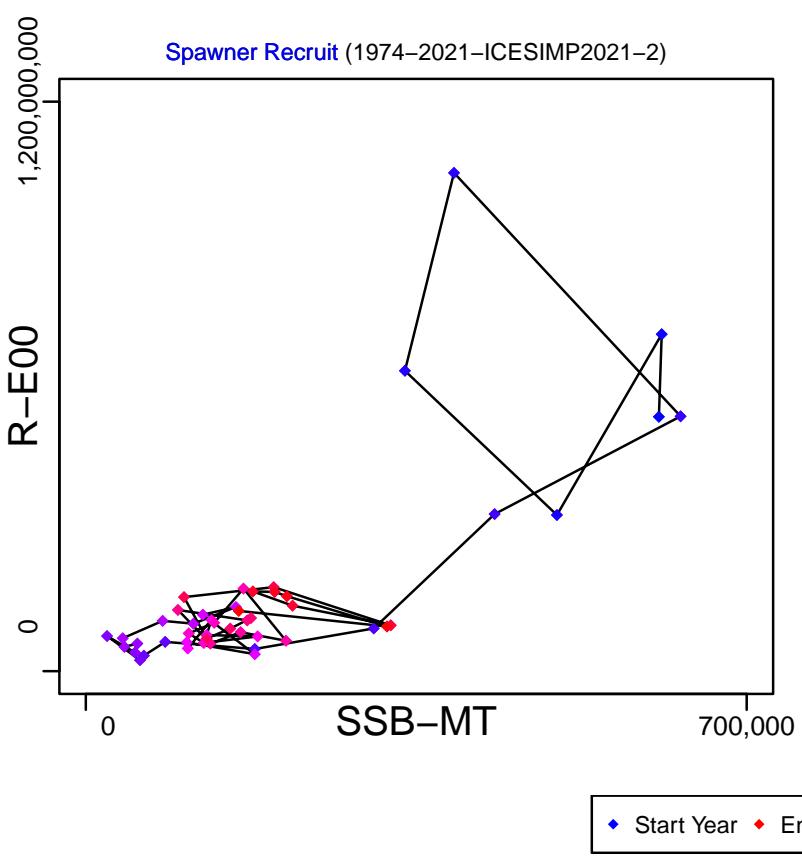
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Sprat ICES 3a-4 [SPRATIIIa-IV]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATIIIa-IV-1974-2021-ICESIMP2021-2
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, 2020, 2021

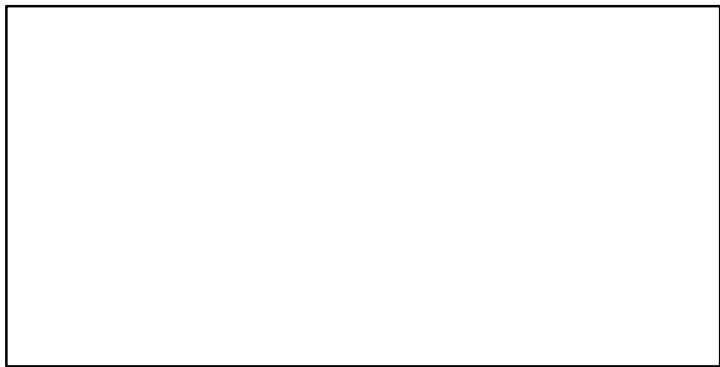
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2021	94,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2021	162,000	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	1.27×10^8	-	0	
F	F-1/yr	2021	1.671	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2020	137,000			
TL	TL-MT	2021	179,000			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

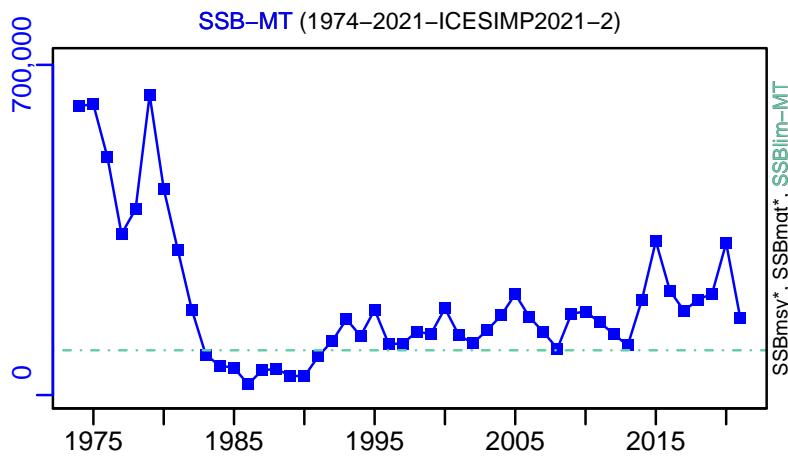
Kobe MSY***Kobe MGT***

Sprat ICES 3a–4 [SPRATIIIa–IV]

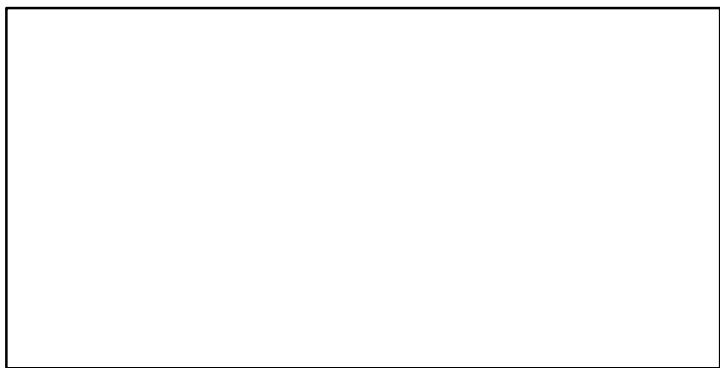
TB*



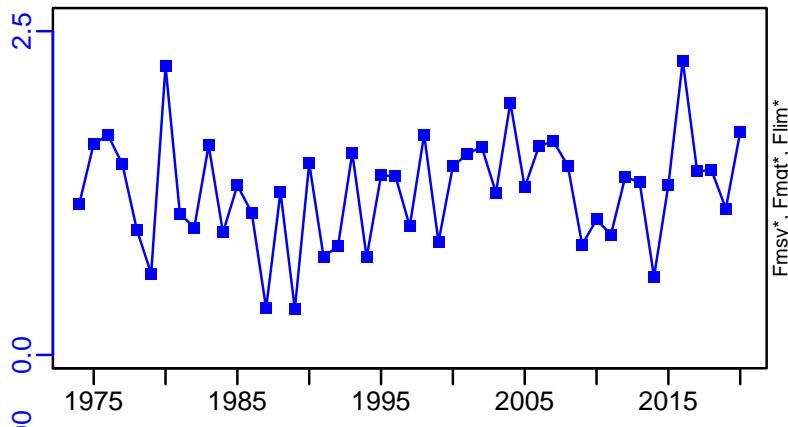
SSB-MT (1974–2021–ICESIMP2021–2)



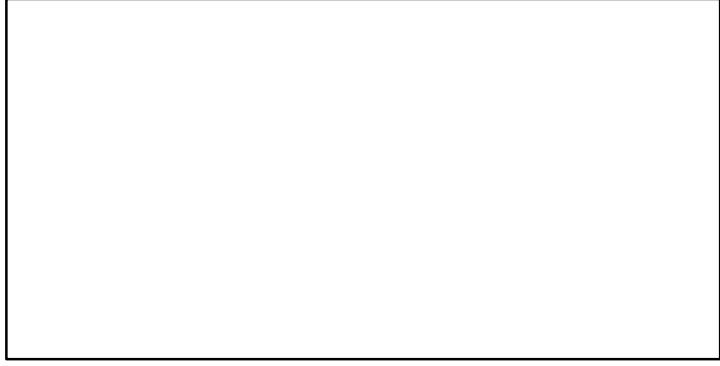
TN *



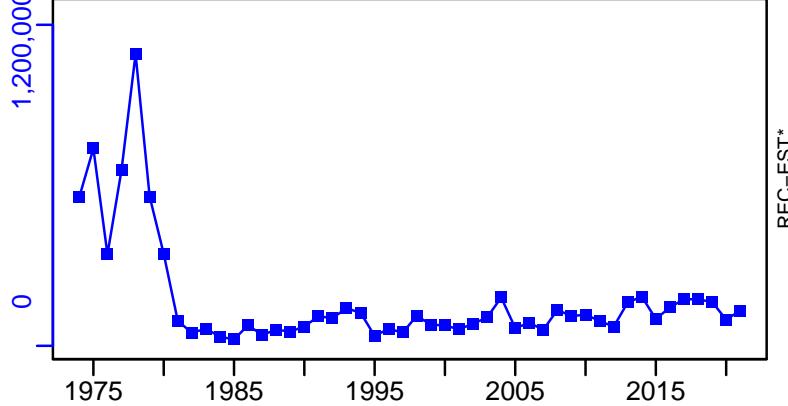
F-1/yr (1974–2021–ICESIMP2021–2)



ER*



R-E00 (1974–2021–ICESIMP2021–2)

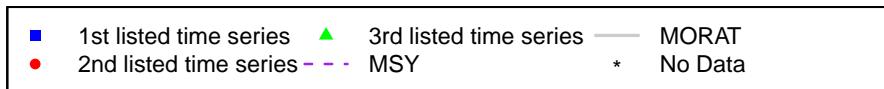
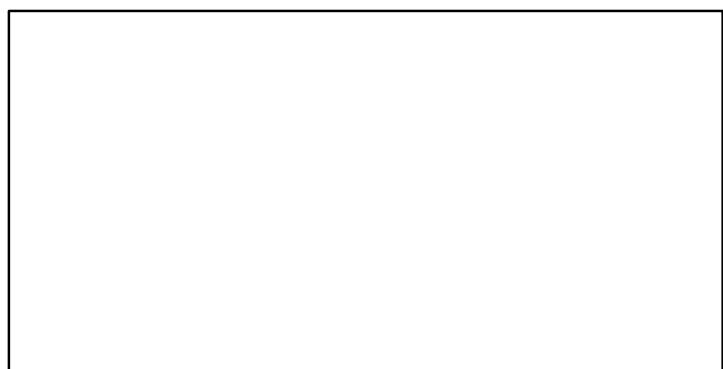
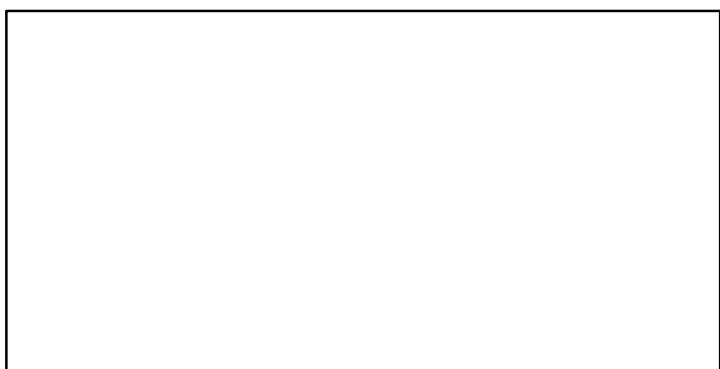
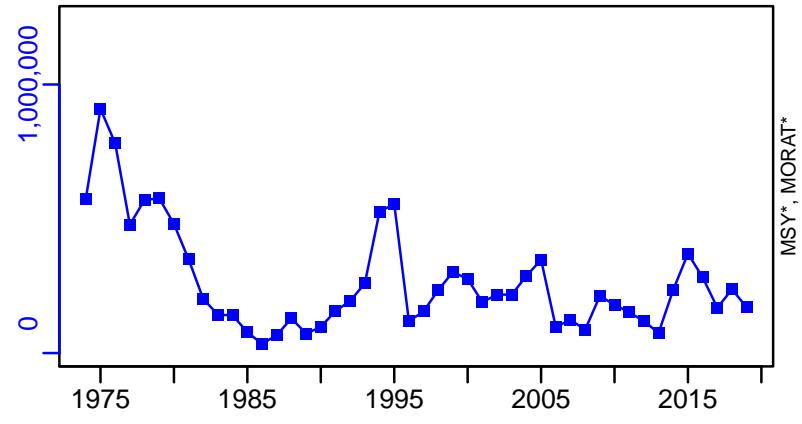


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Sprat ICES 3a–4 [SPRATIIIa–IV]

TC–MT, TL*, RecC* (1974–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



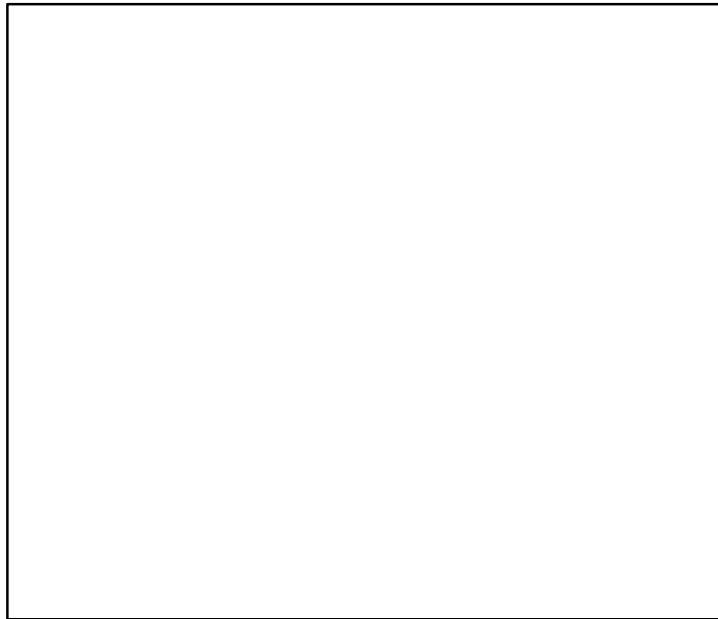
Sprat ICES 7de [SPRATVIIde]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVIIde-1977-2020-ICESIMP2021-2
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, 2019, 2020, 2016, 2016, 2017

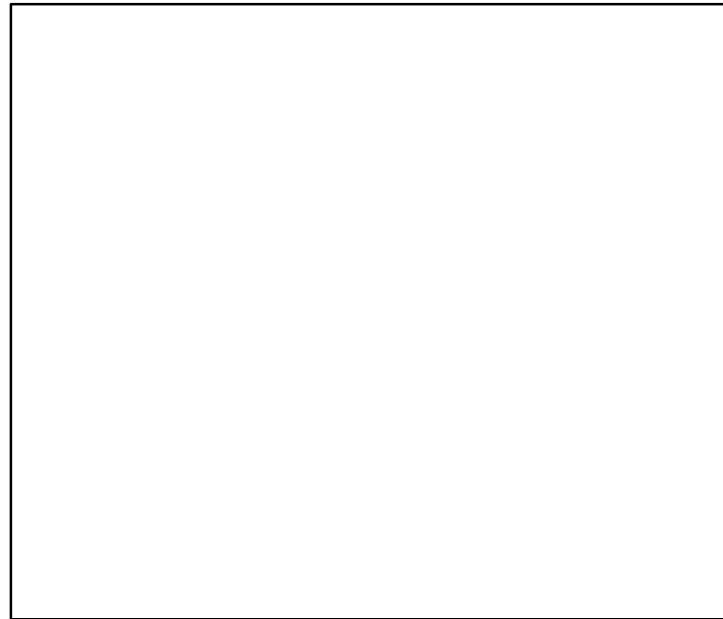
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	SSB-MT	2018	17,091	-	-	-
TN	-	-	-	-	-	-
R	-	-	-	-	-	-
F	F-relative	2020	0.025	-	-	-
ER	ER-ratio	2017	0.001	-	-	-
TC	TC-MT	2020	873			
TL	TL-MT	2018	2252			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

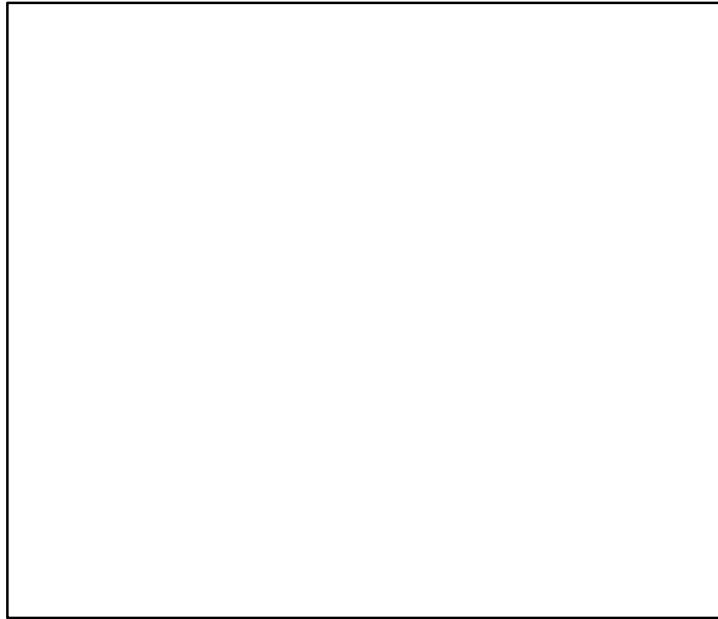
Kobe MSY*



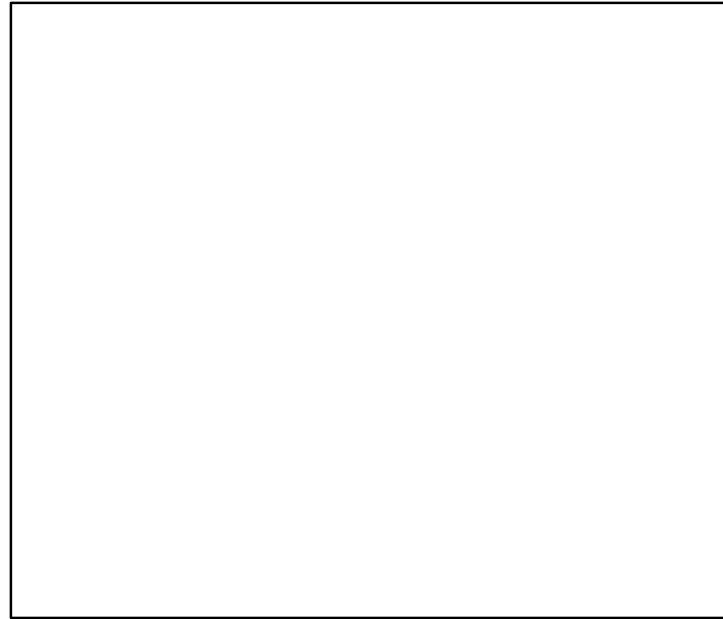
Kobe MGT*



Spawner Recruit*



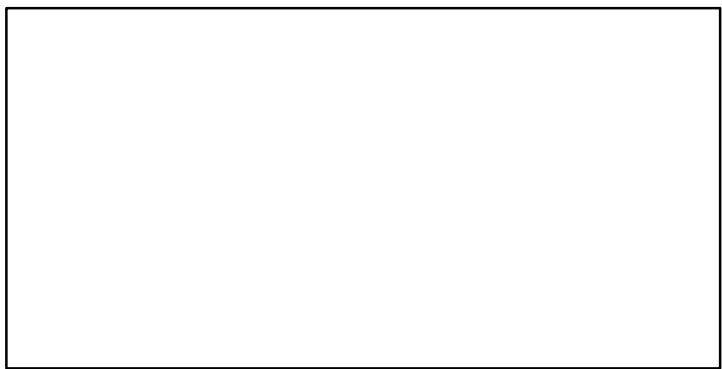
Production*



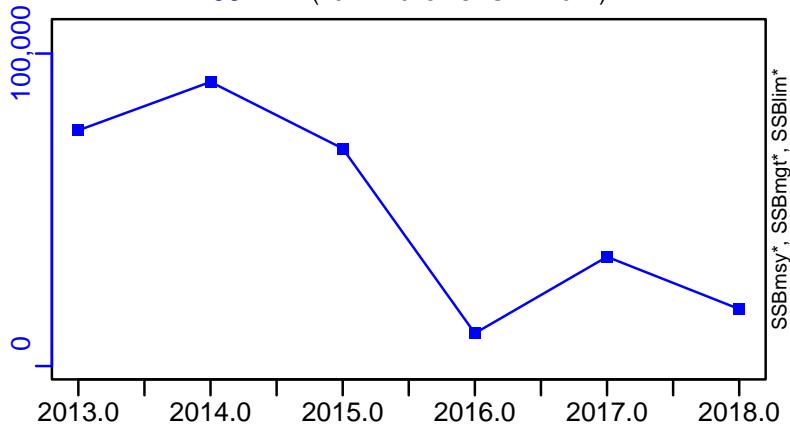
◆ Start Year ♦ End Year * No Data

Sprat ICES 7de [SPRATVIIde]

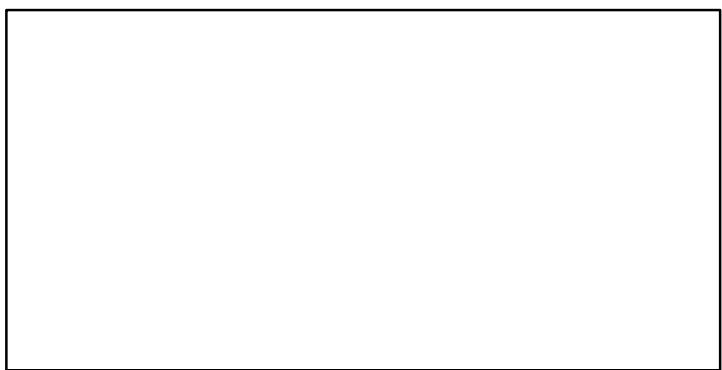
TB*



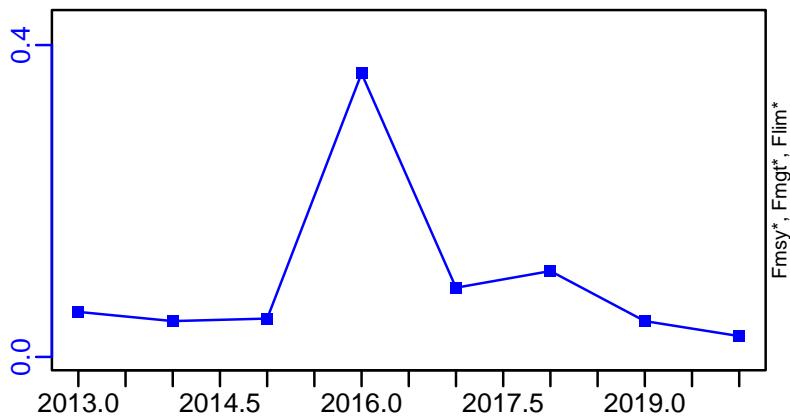
SSB-MT (1977–2018–ICESIMP2021)



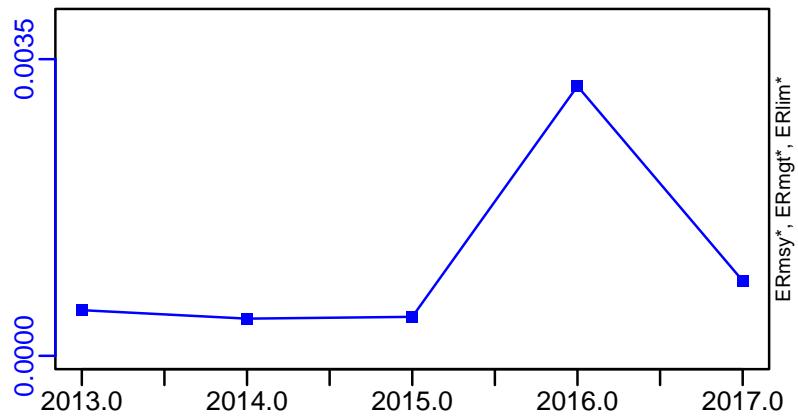
TN *



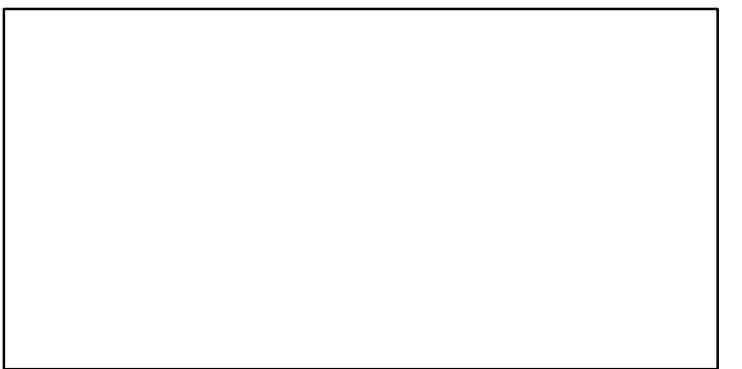
F-relative (1977–2020–ICESIMP2021–2)



ER-ratio (1985–2017–ICESIMP2018)



Recruits*

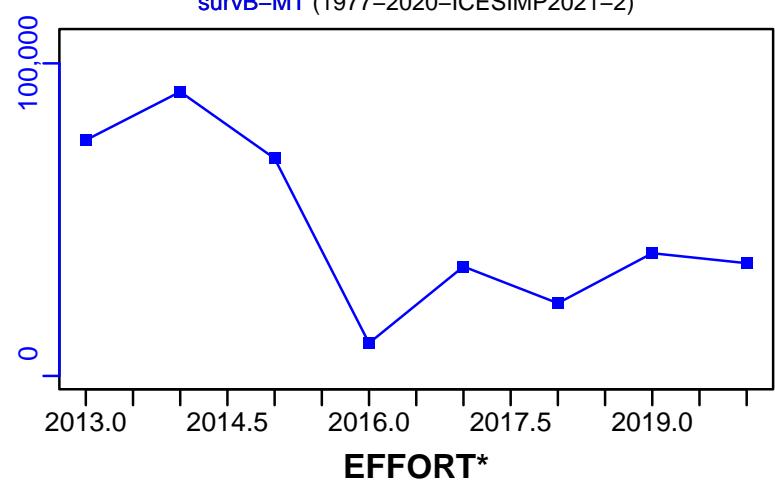
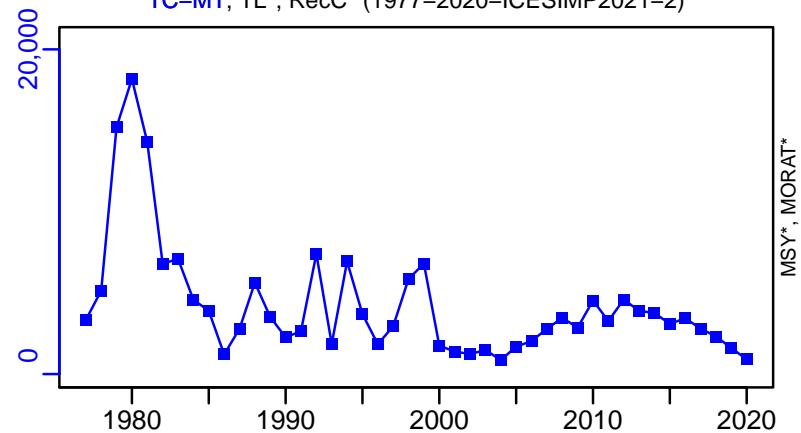


- Listed time series
- - - Target BRP
- - MSY-based BRP
- - Lim BRP
- Rec-Est
- * No Data

Sprat ICES 7de [SPRATVIIde]

TC-MT, TL*, RecC* (1977–2020–ICESIMP2021-2)

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

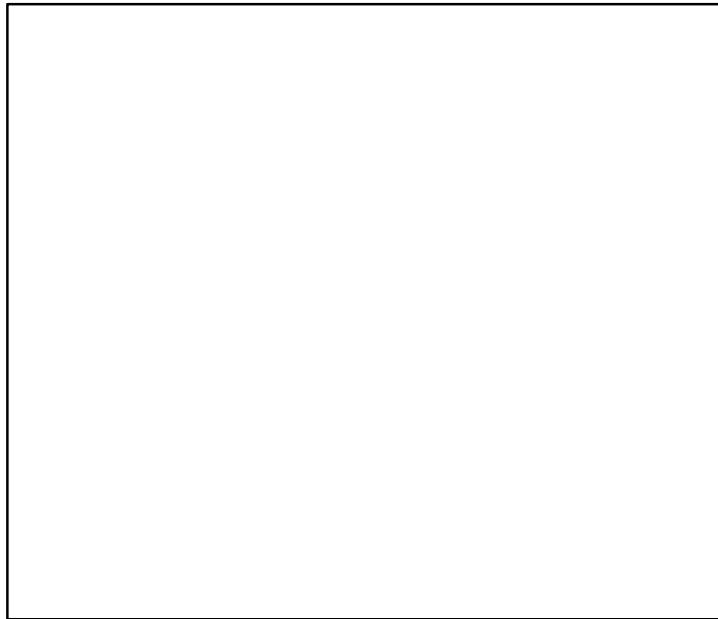
Sprat ICES 6-7abcfghijk [SPRATVI-VIIabcfghijk]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVI-VIIabcfghijk-1986-2020-ICESIMP2021-2
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, 2020

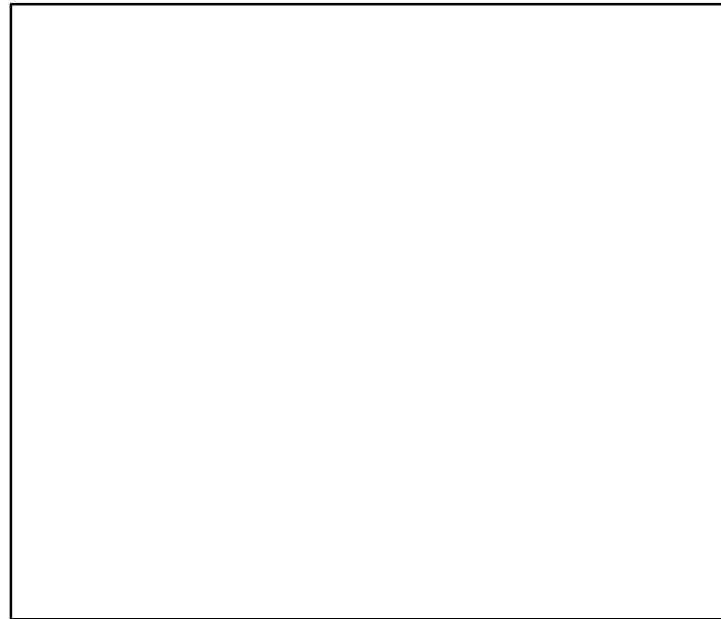
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	15,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

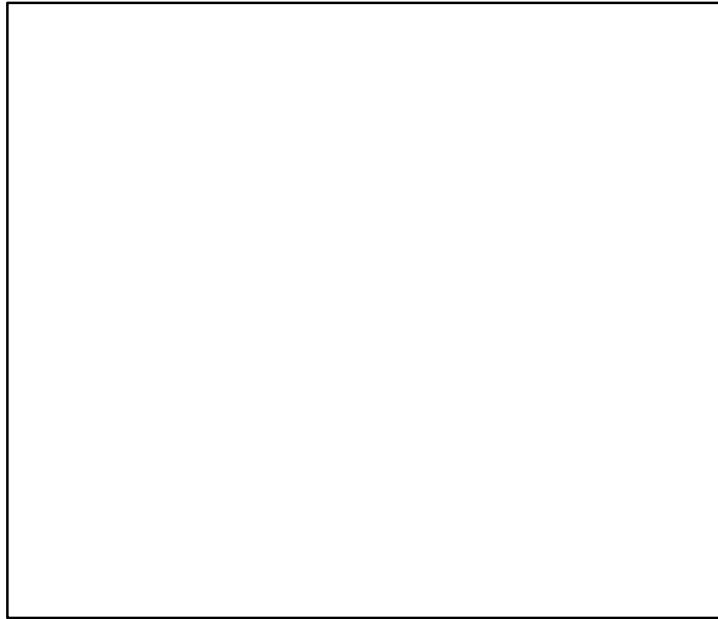
Kobe MSY*



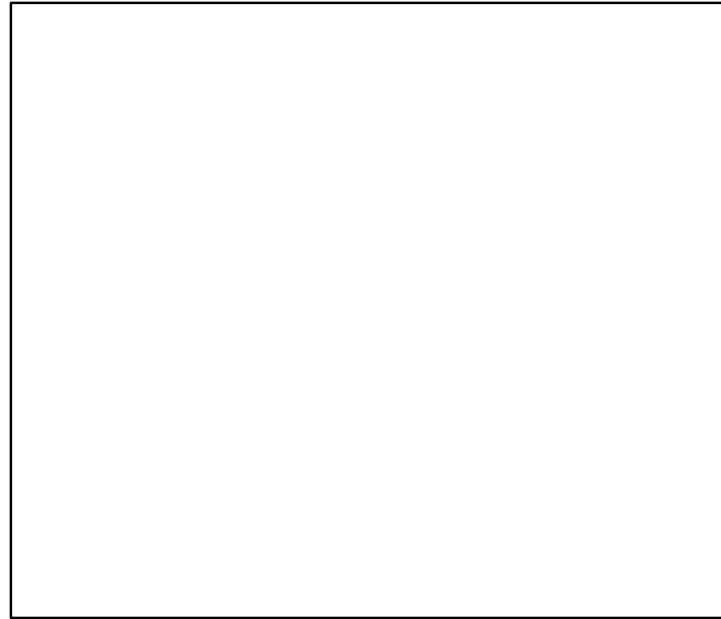
Kobe MGT*



Spawner Recruit*



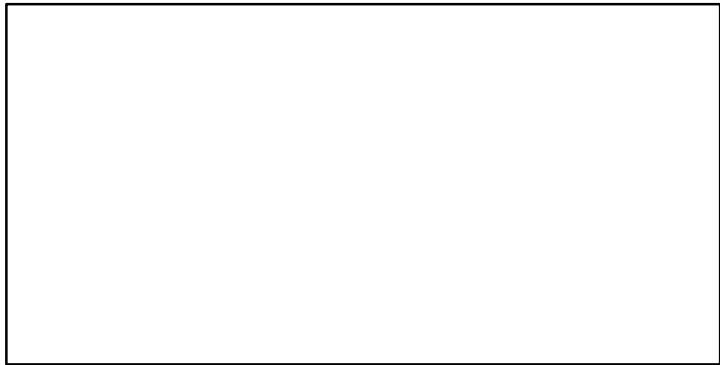
Production*



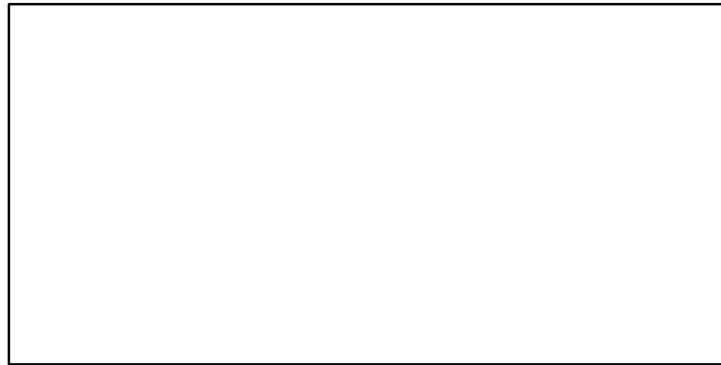
◆ Start Year ♦ End Year * No Data

Sprat ICES 6–7abcfghijk [SPRATVI–VIIabcfghijk]

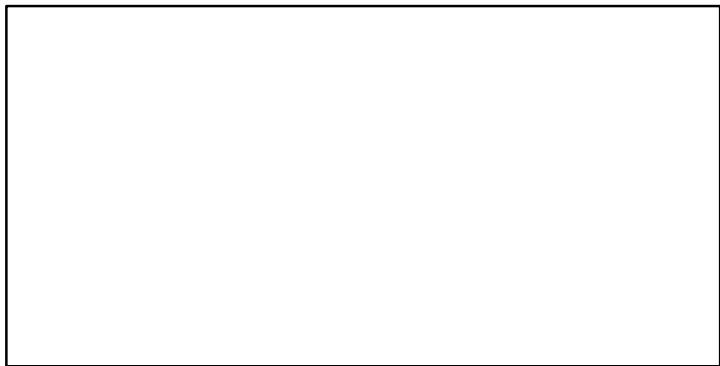
TB*



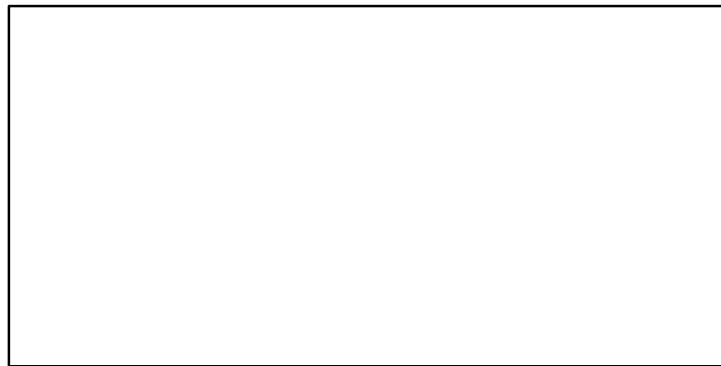
SSB*



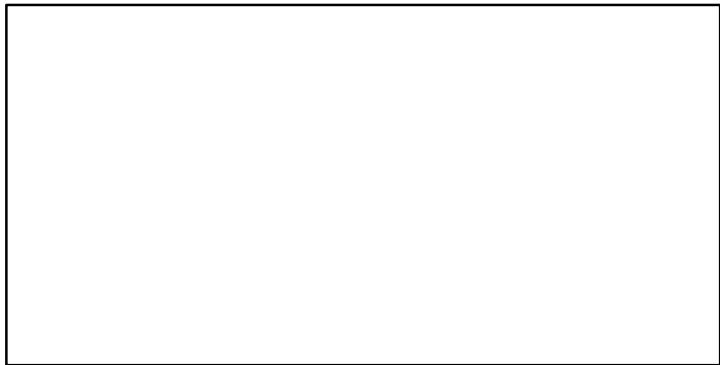
TN *



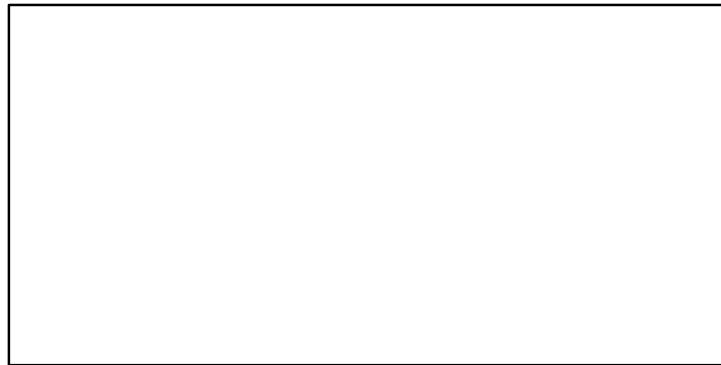
F*



ER*



Recruits*

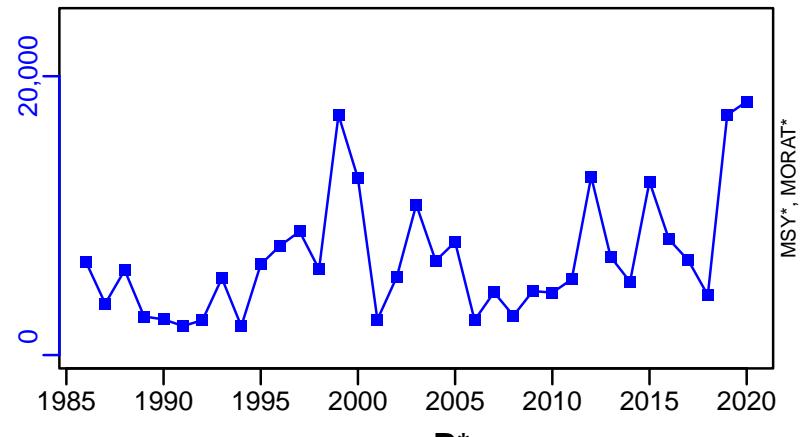


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

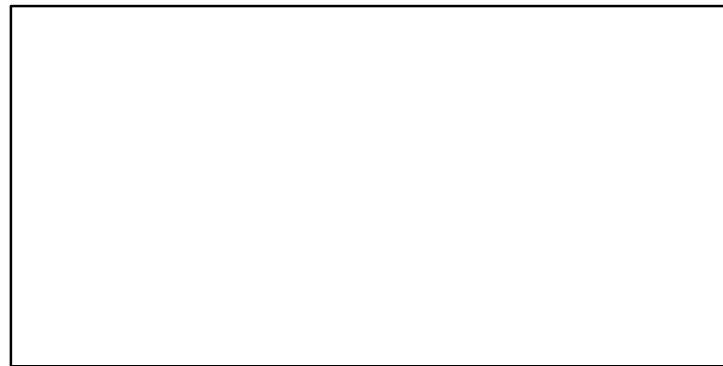
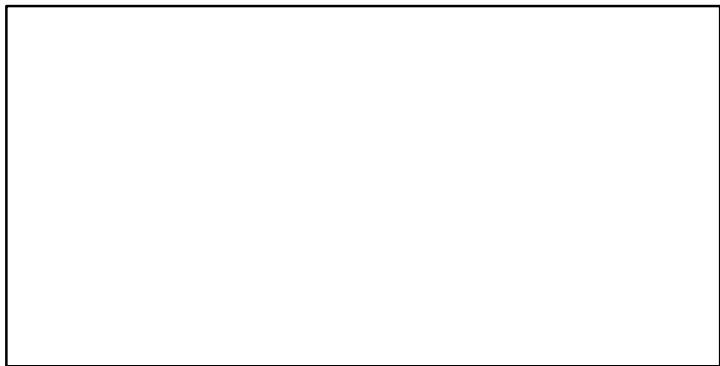
Sprat ICES 6–7abcfghijk [SPRATVI–VIIabcfghijk]

TL–MT, TC*, RecC* (1986–2020–ICESIMP2021–2)

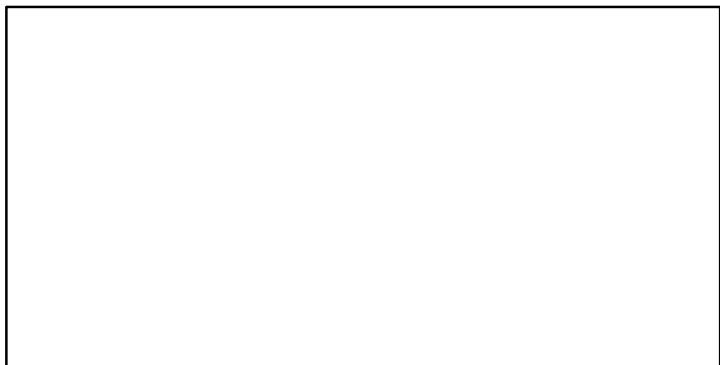
TAC*, Cpair*, Cadv*



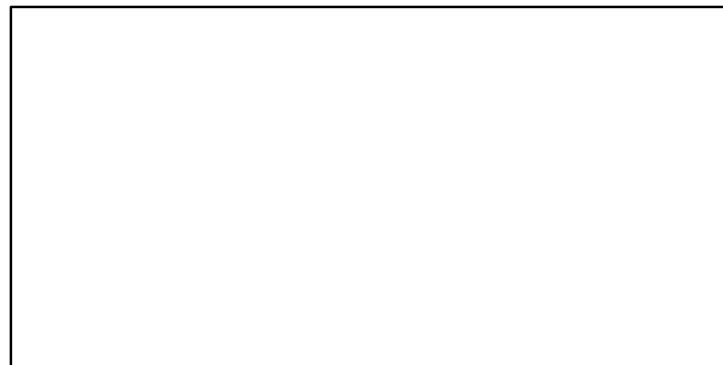
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

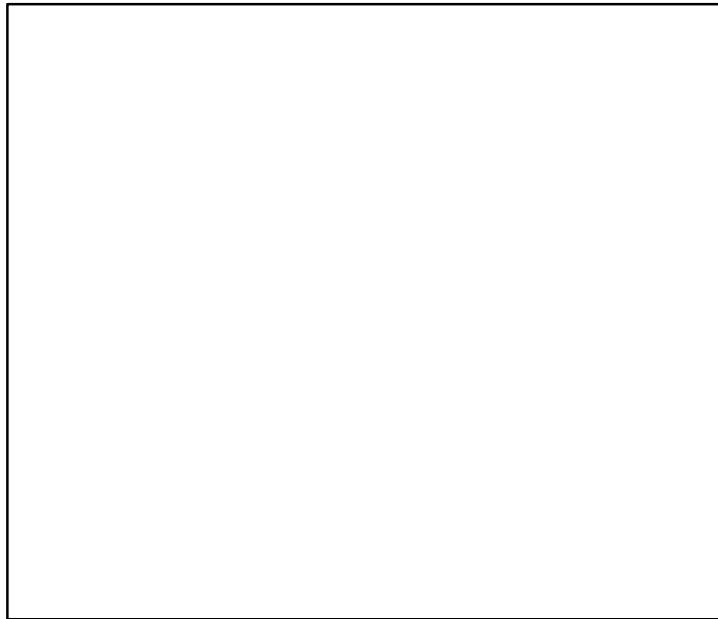
Spotted ray ICES 3a-4-7d [SPRAYIIla-IV-VIId]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIIla-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

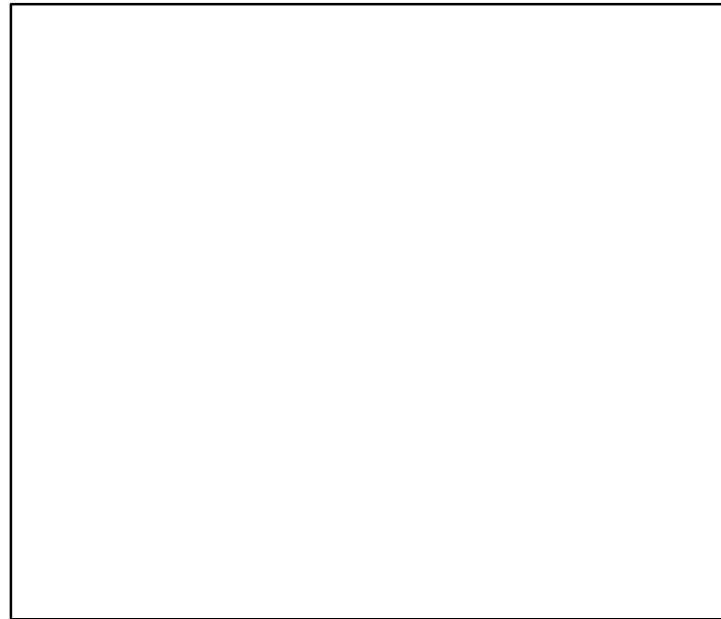
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

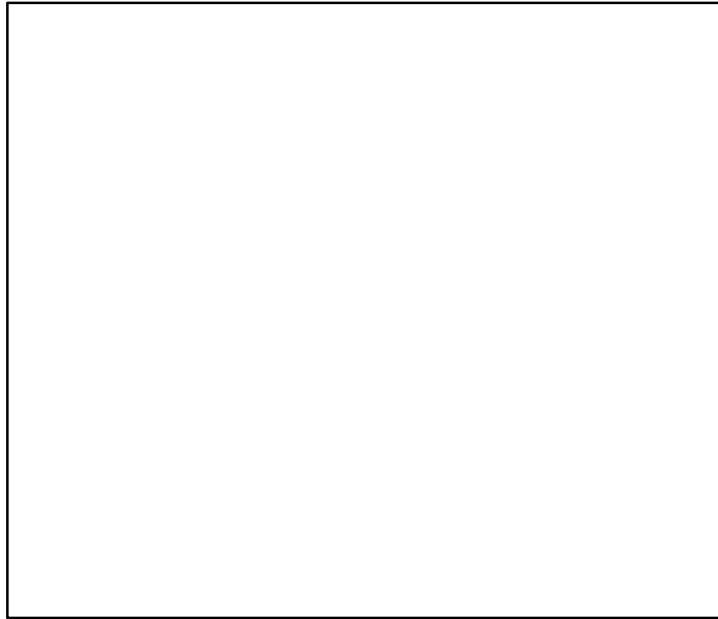
Kobe MSY*



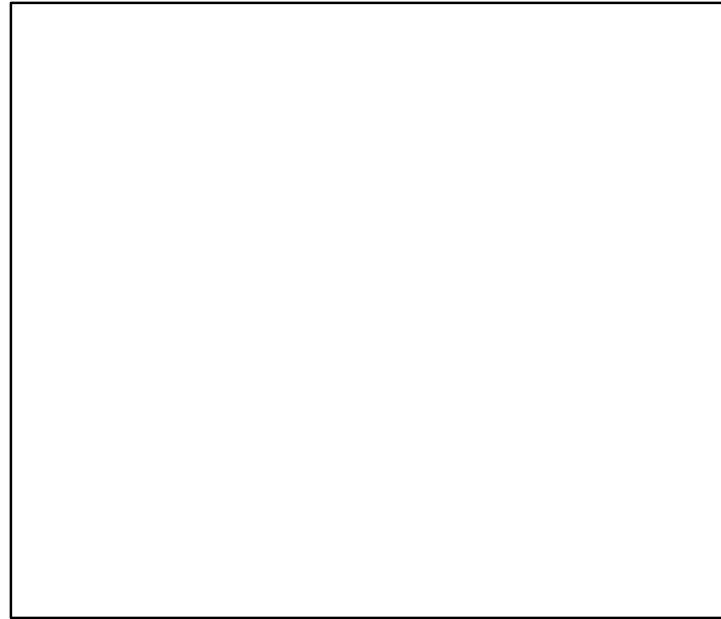
Kobe MGT*



Spawner Recruit*



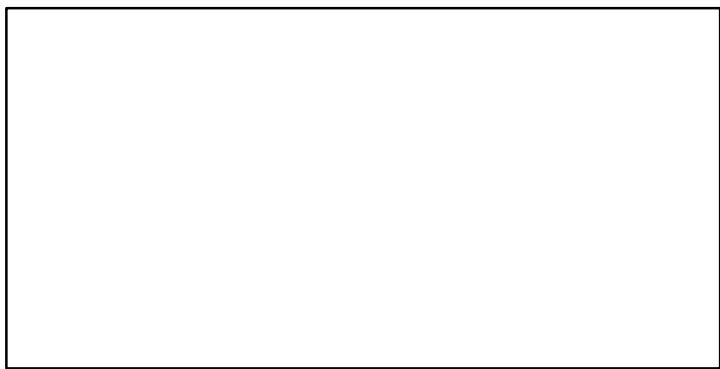
Production*



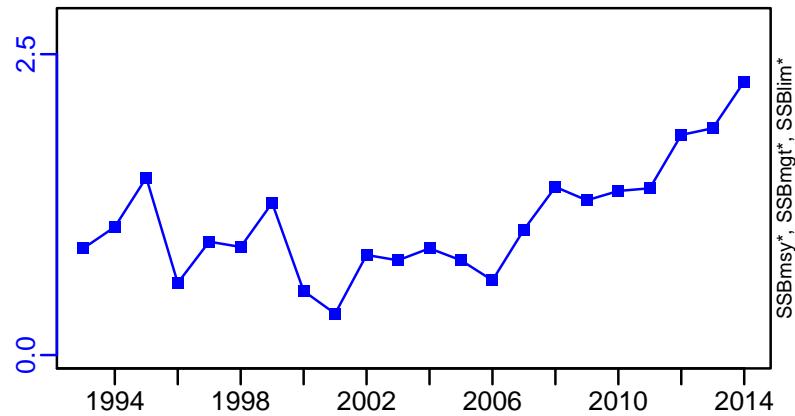
◆ Start Year ♦ End Year * No Data

Spotted ray ICES 3a–4–7d [SPRAYIIIa–IV–VIId]

TB*



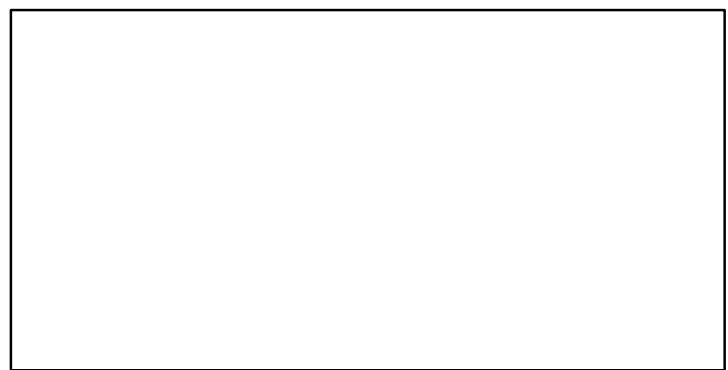
SSB–index (1993–2014–ICESIMP2018)



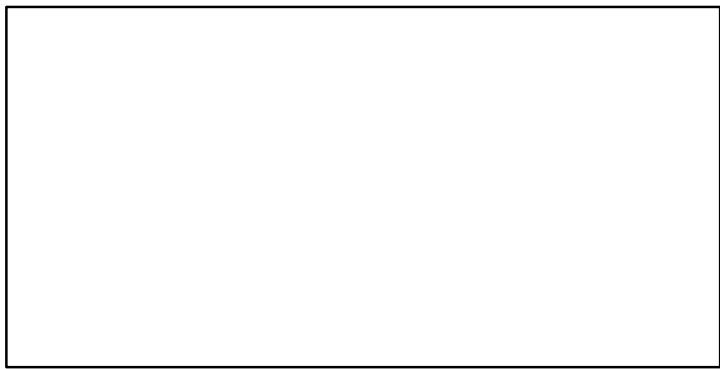
TN *



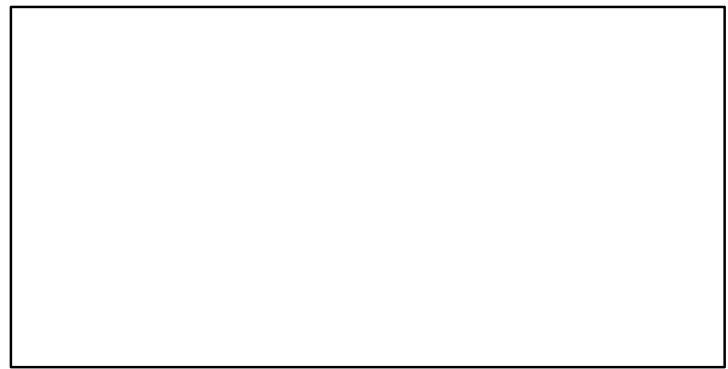
F*



ER*



Recruits*

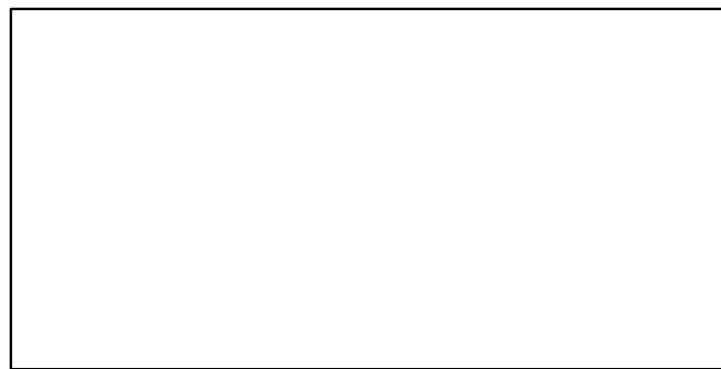
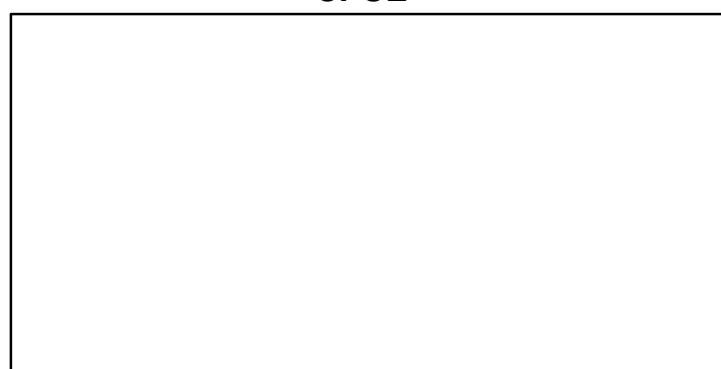
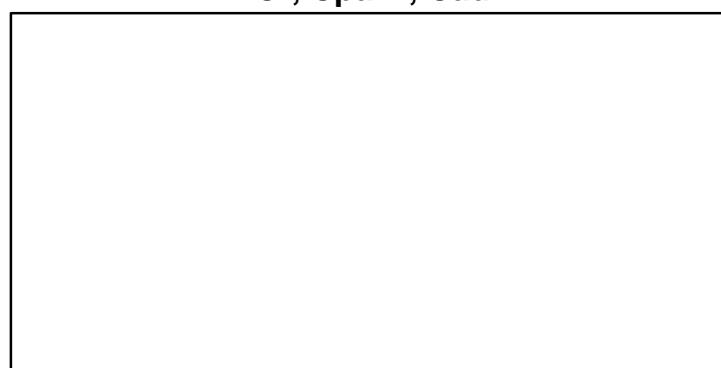
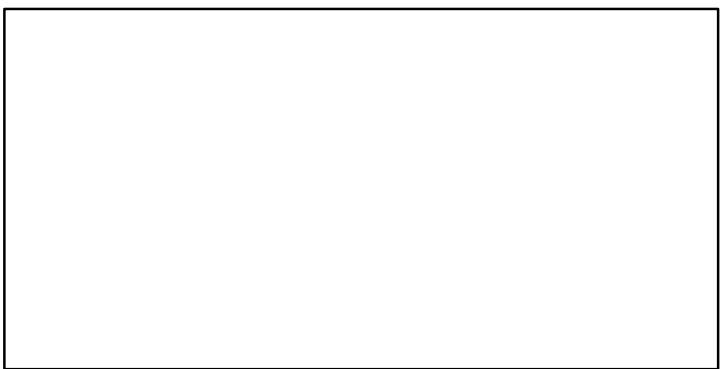
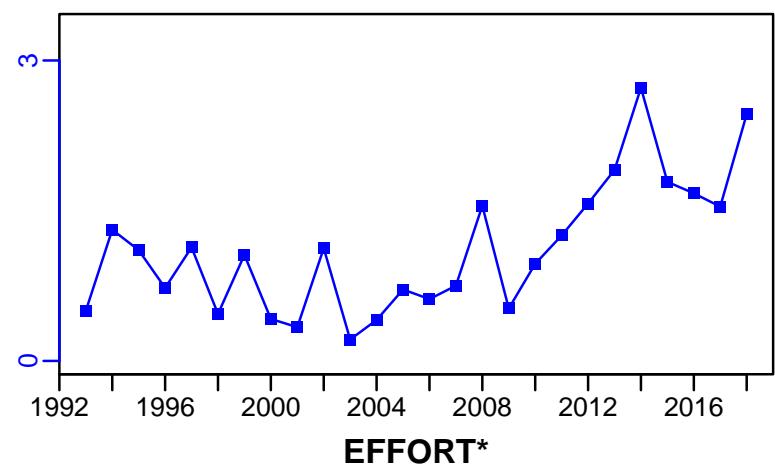
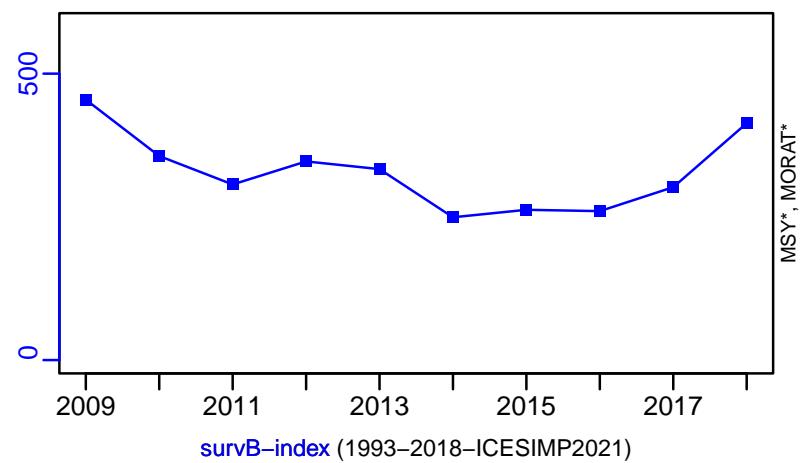


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Spotted ray ICES 3a–4–7d [SPRAYIIIa–IV–VIId]

TL–MT, TC*, RecC* (1993–2018–ICESIMP2021)

TAC*, Cpair*, Cadv*



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

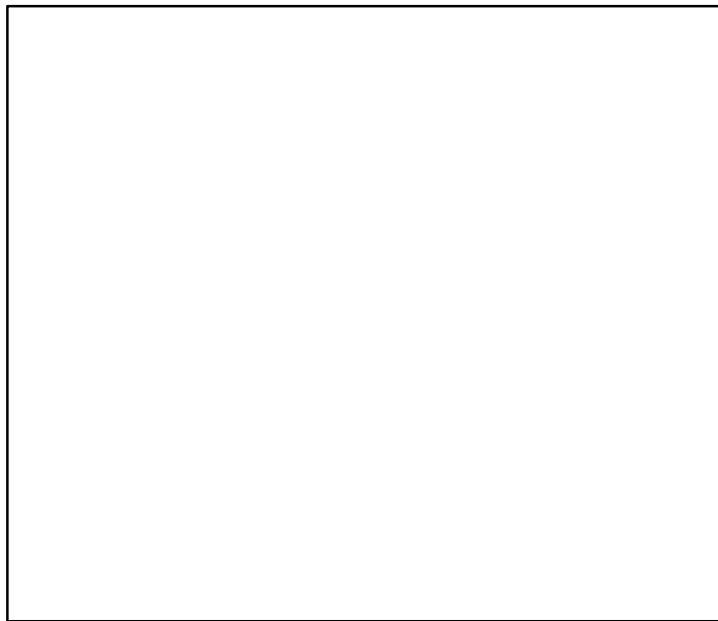
Spotted ray Portugese Waters -East [SPRAYIXa]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIXa-2003-2015-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

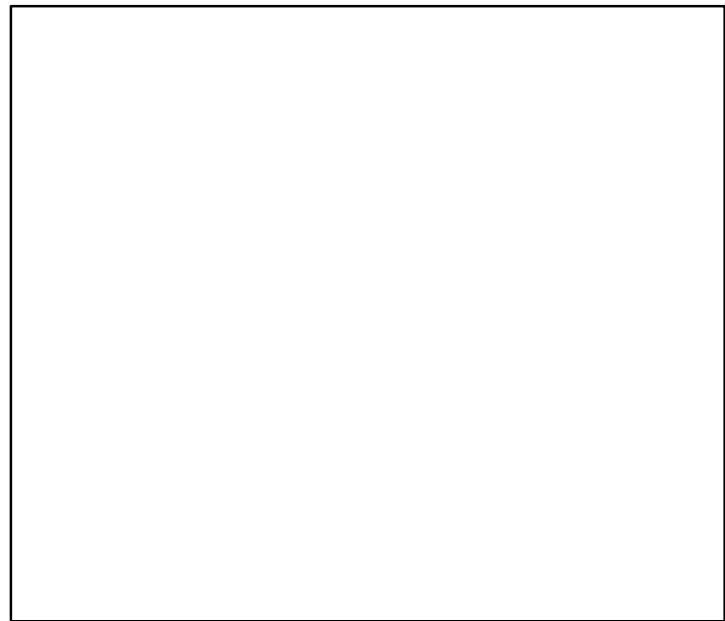
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	2.35	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	-	-	-		

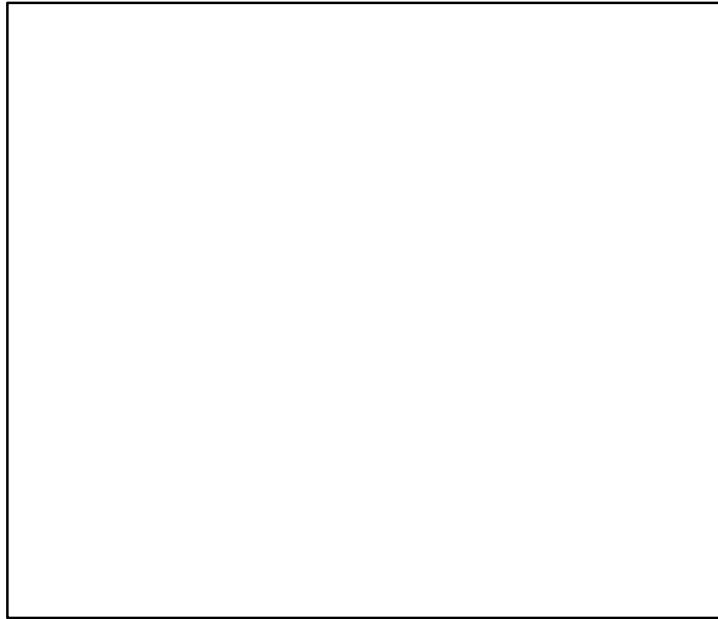
Kobe MSY*



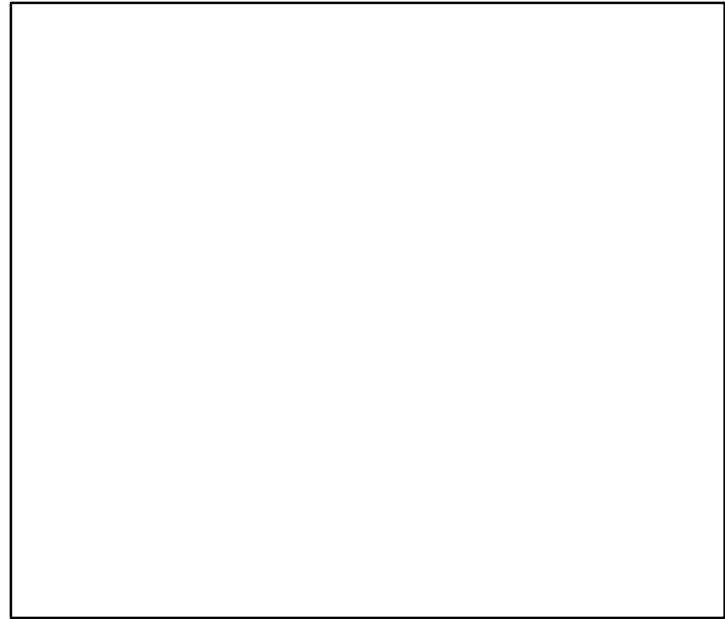
Kobe MGT*



Spawner Recruit*



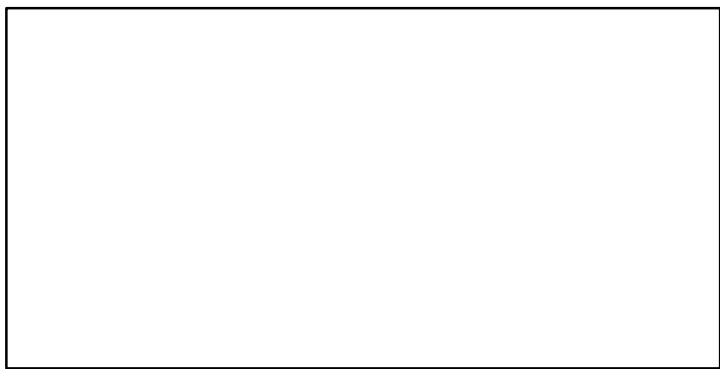
Production*



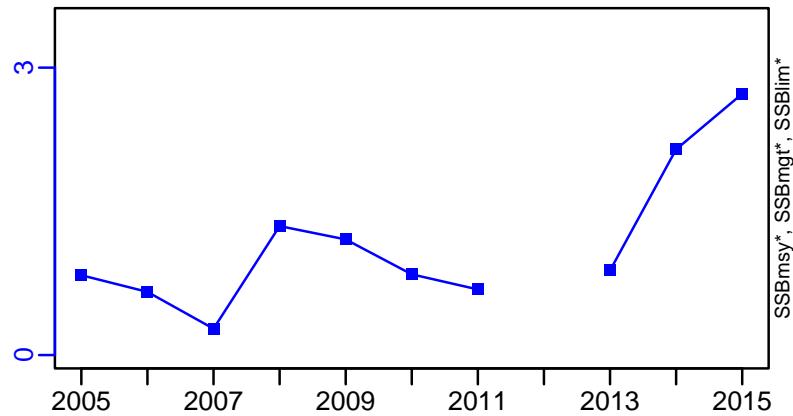
◆ Start Year ♦ End Year * No Data

Spotted ray Portuguese Waters –East [SPRAYIXa]

TB*



SSB–index (2003–2015–ICESIMP2018)



SSB_msy*, SSB_{mgt}*, SSB_{lim}*

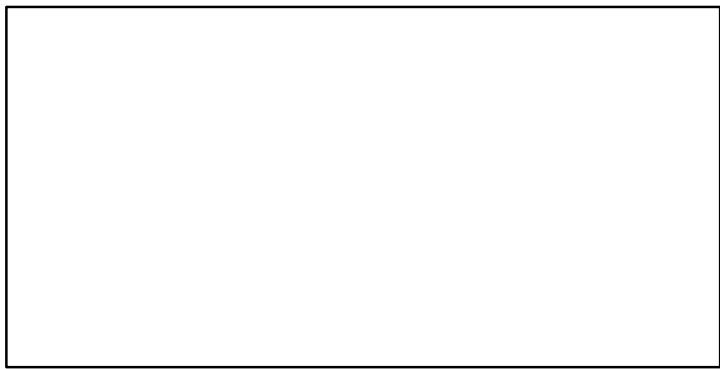
TN *



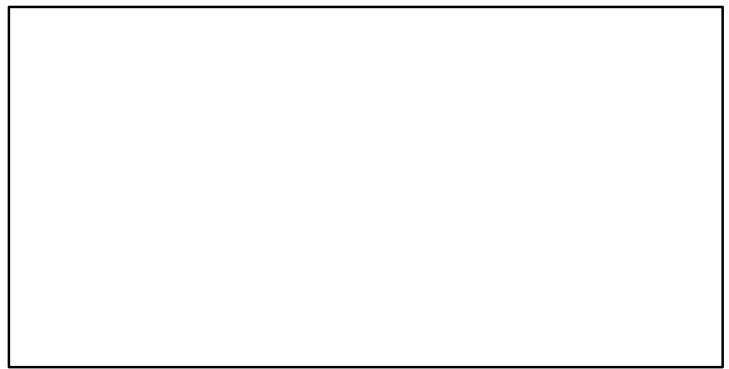
F*



ER*



Recruits*

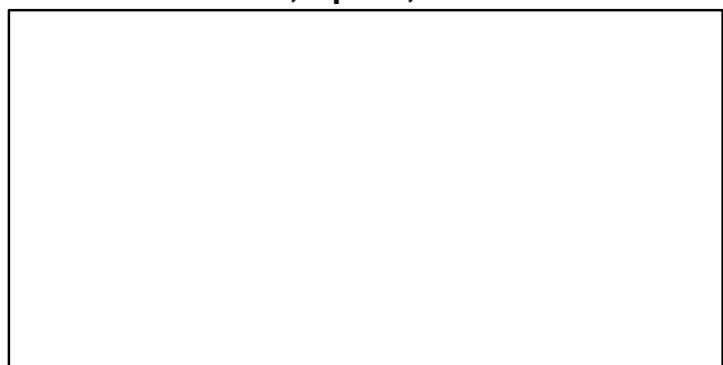
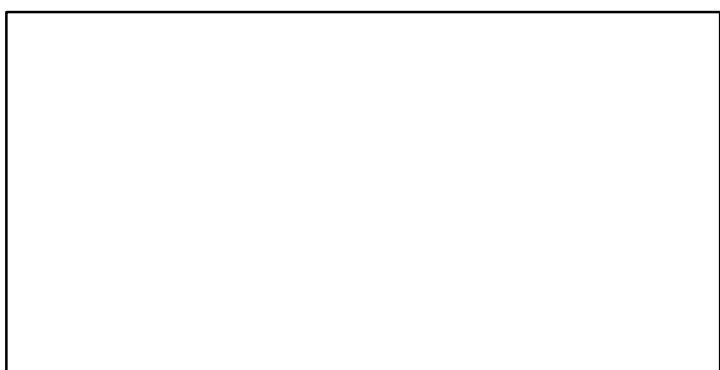
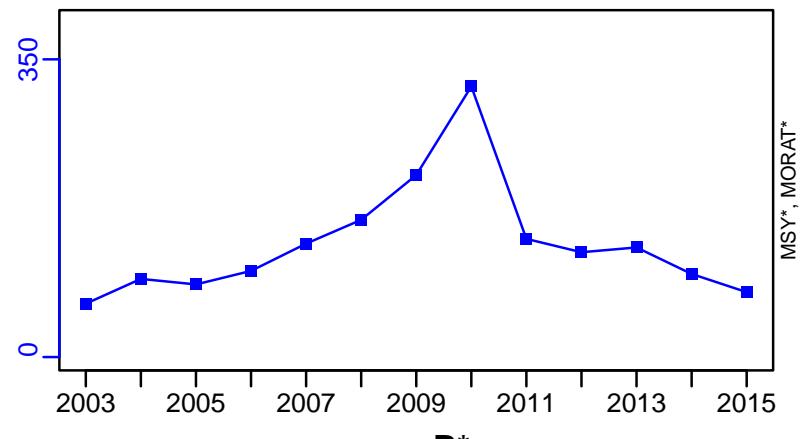


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

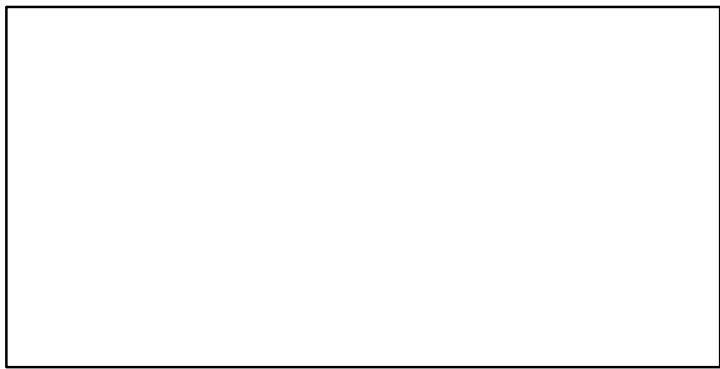
Spotted ray Portuguese Waters –East [SPRAYIXa]

TL-MT, TC*, RecC* (2003–2015–ICESIMP2018)

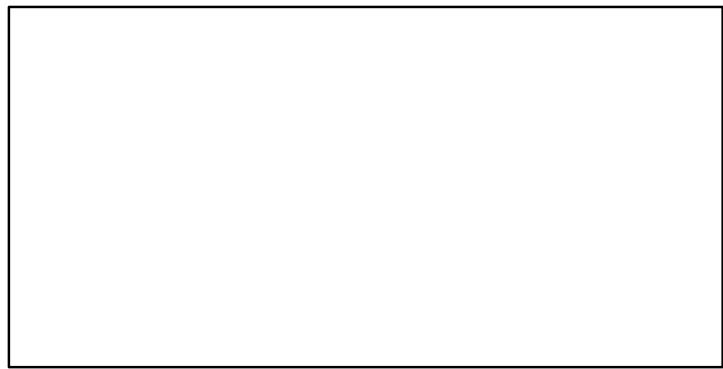
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

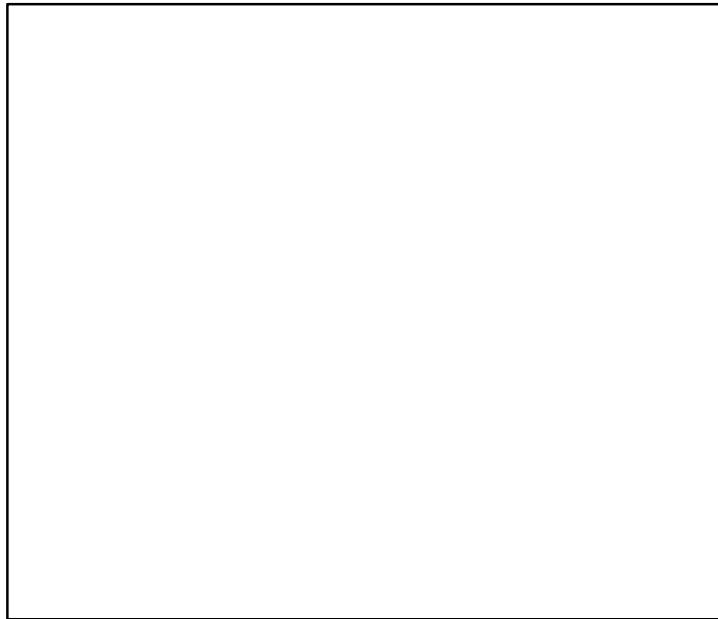
Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVIIaefgh-1993-2015-ICESIMP2018
Area	ICES 7aefgh
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

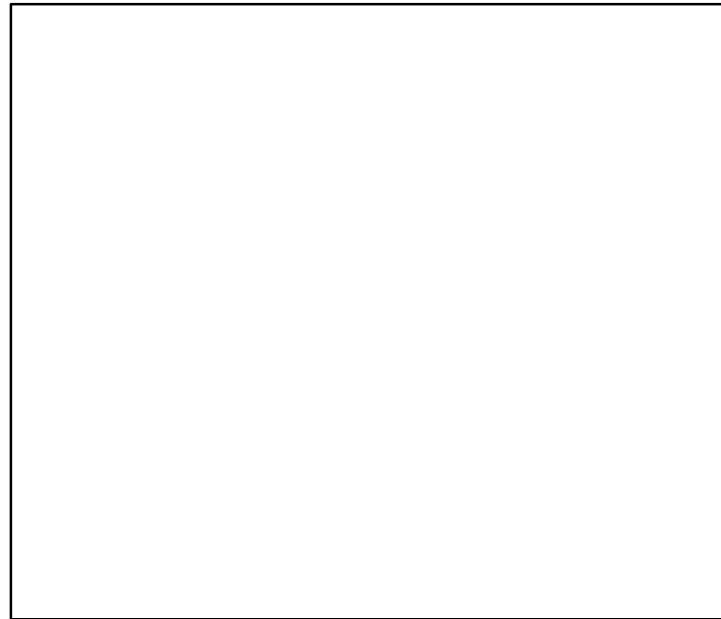
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	7	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	837		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

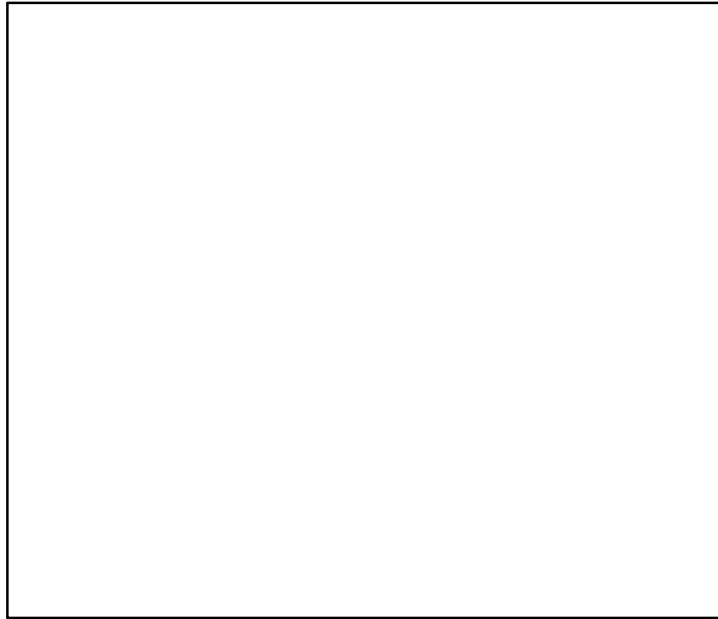
Kobe MSY*



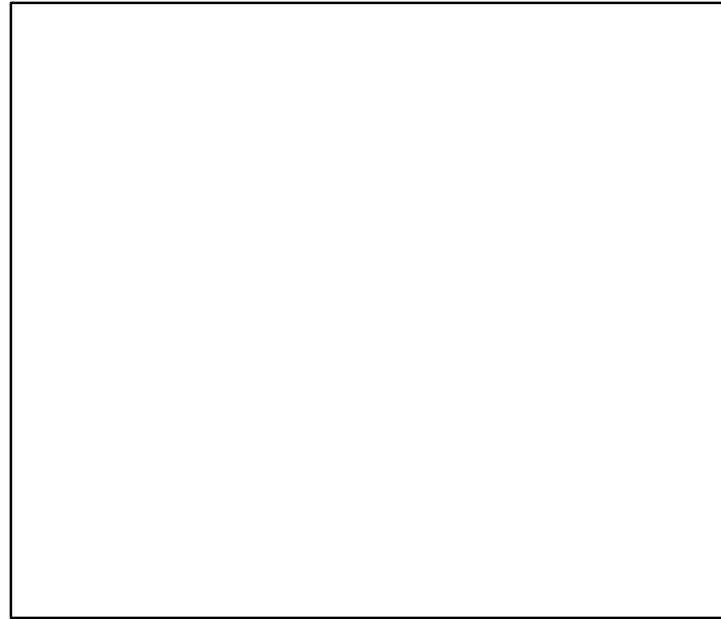
Kobe MGT*



Spawner Recruit*



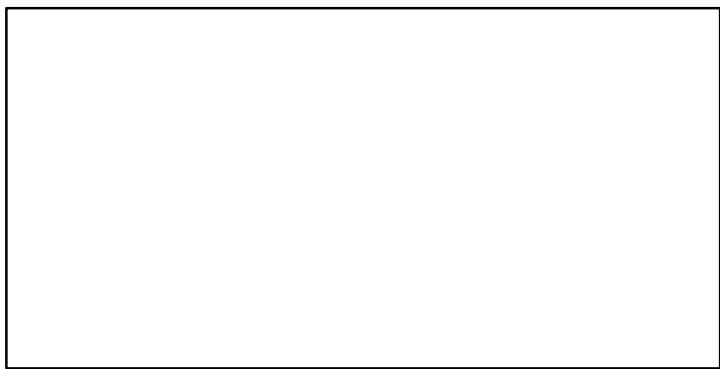
Production*



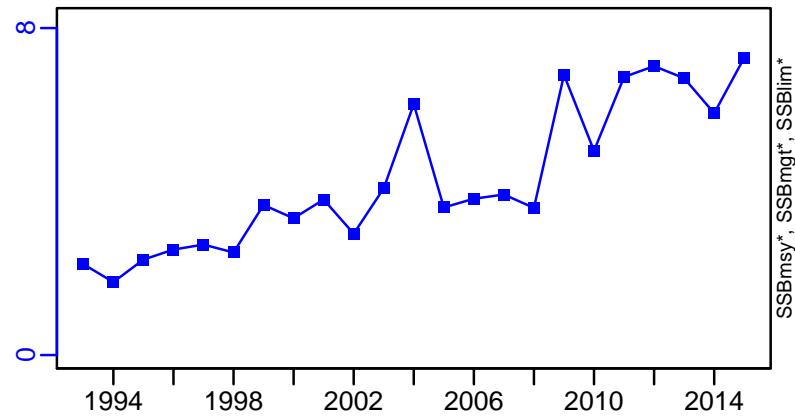
◆ Start Year ♦ End Year * No Data

Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

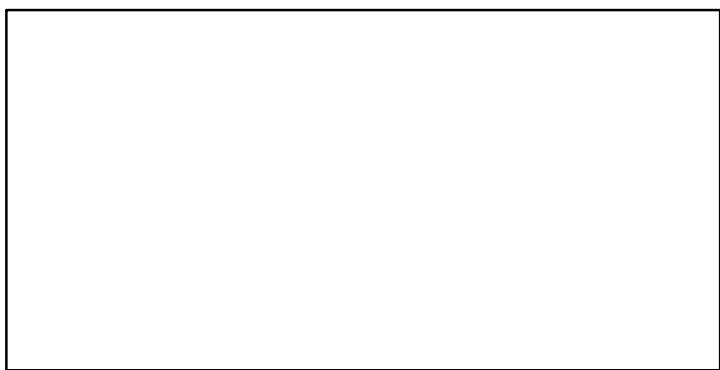
TB*



SSB-index (1993–2015–ICESIMP2018)



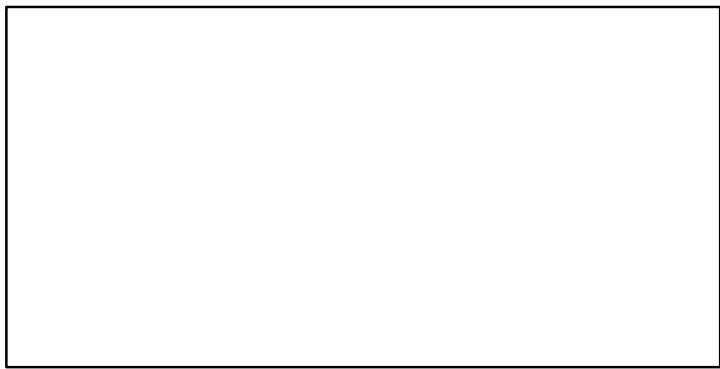
TN *



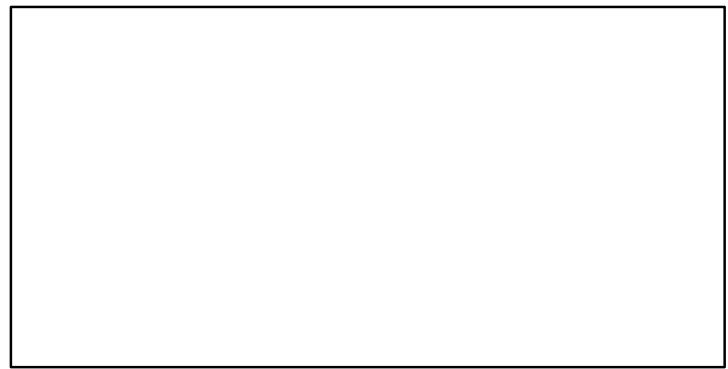
F*



ER*



Recruits*

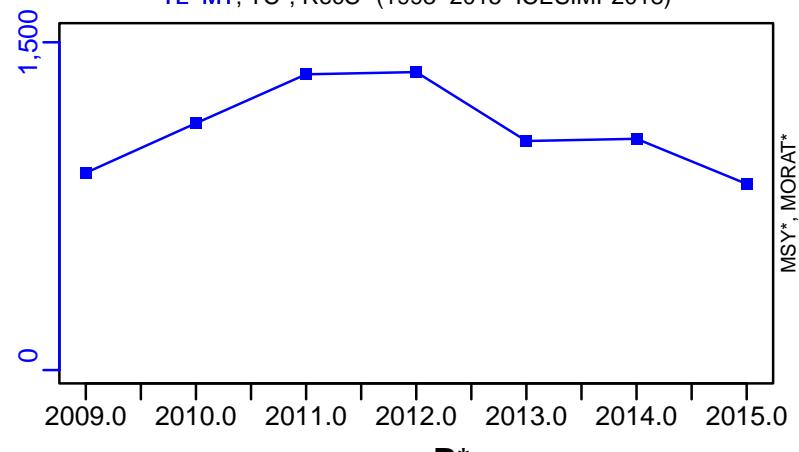


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Spotted ray ICES 7aefgh [SPRAYVIIaefgh]

TL-MT, TC*, RecC* (1993–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Spotted ray Bay of Biscay [SPRAYVIII]

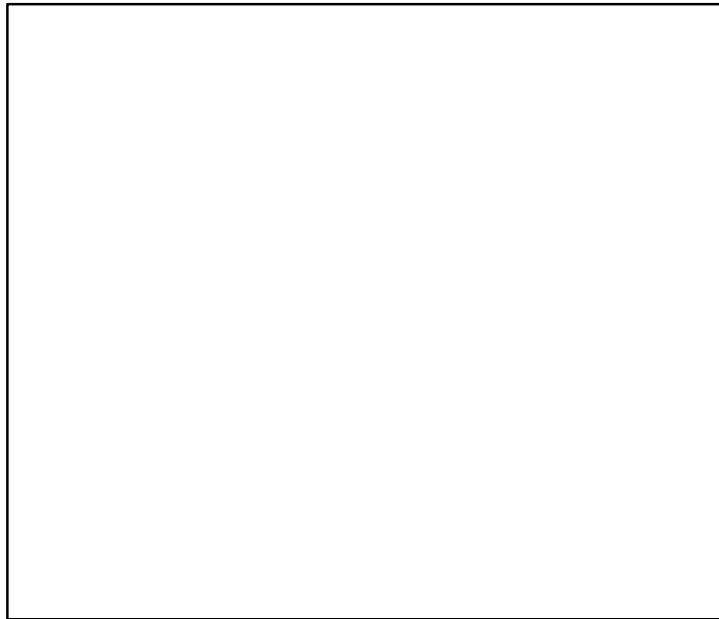
Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVIII-1999-2015-ICESIMP2018
Area	Bay of Biscay
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

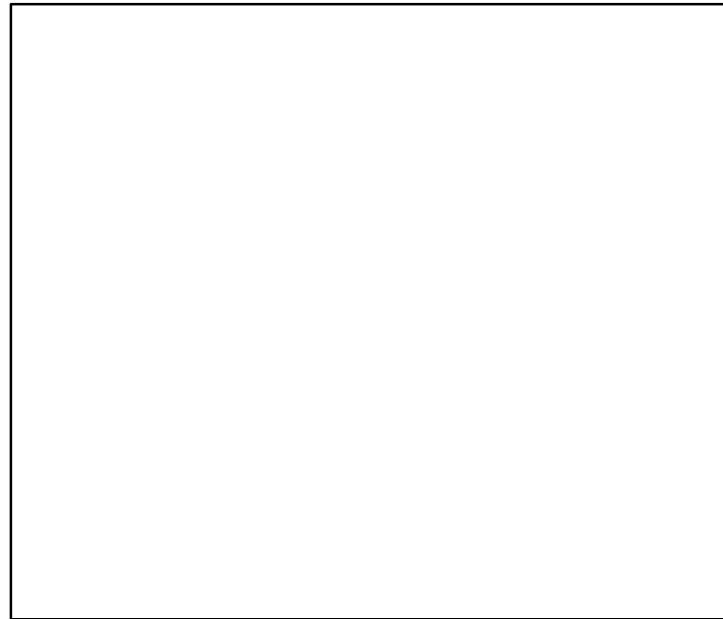
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.29	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	176		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted ray Bay of Biscay [SPRAYVIII]

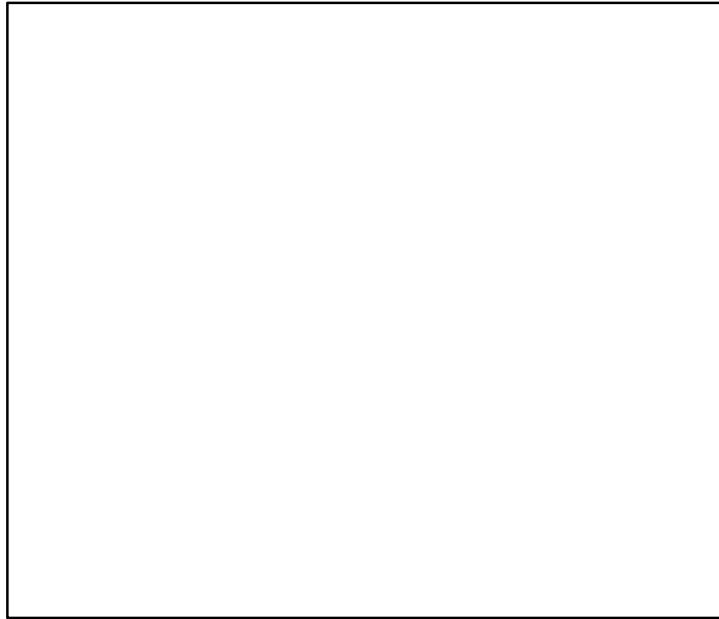
Kobe MSY*



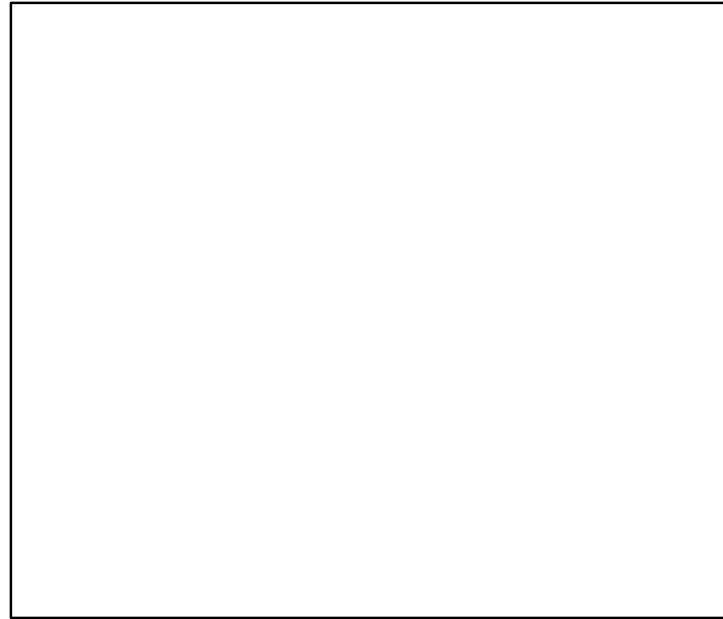
Kobe MGT*



Spawner Recruit*



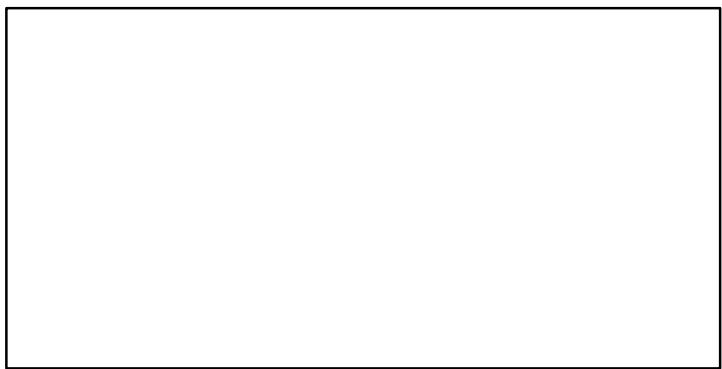
Production*



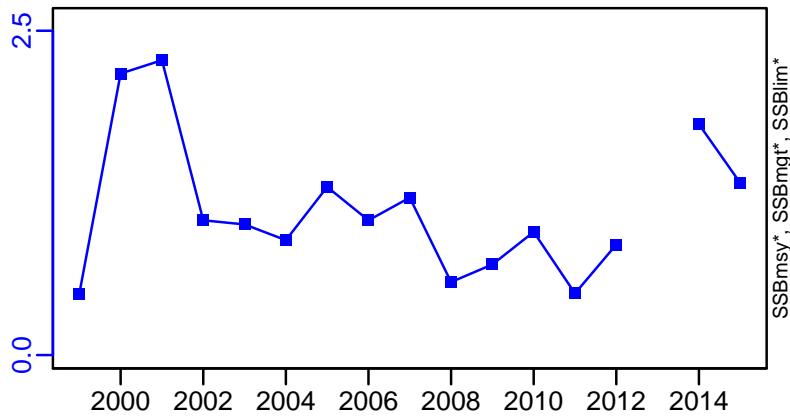
◆ Start Year ♦ End Year * No Data

Spotted ray Bay of Biscay [SPRAYVIII]

TB*



SSB-index (1999–2015–ICESIMP2018)



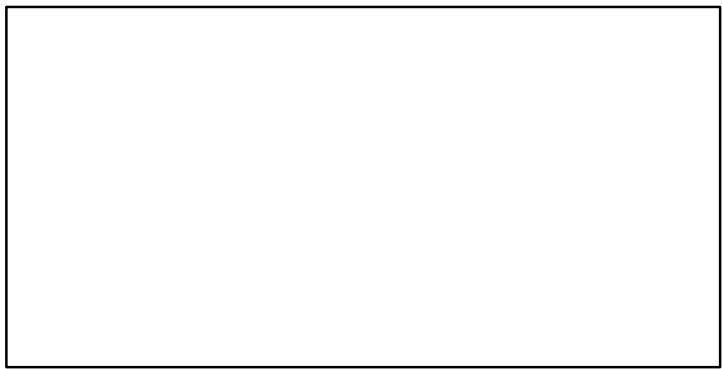
TN *



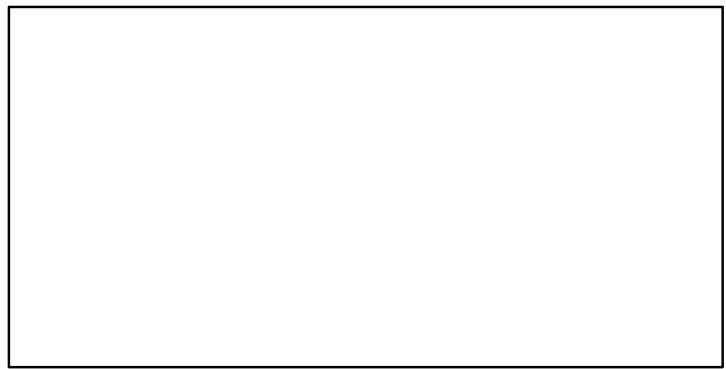
F*



ER*



Recruits*

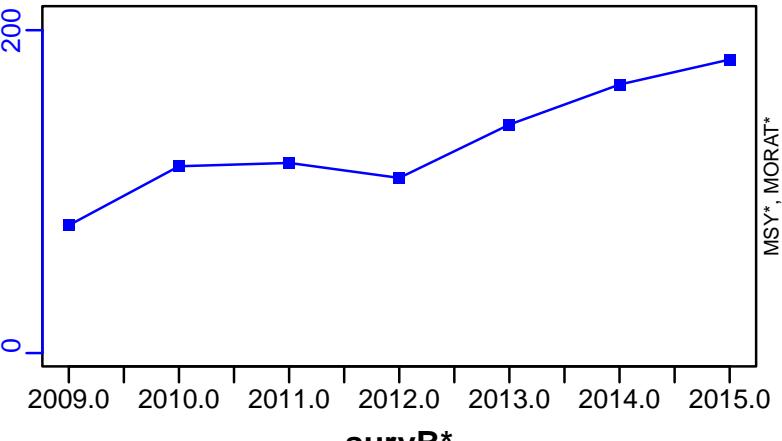


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Spotted ray Bay of Biscay [SPRAYVIII]

TL-MT, TC*, RecC* (1999–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



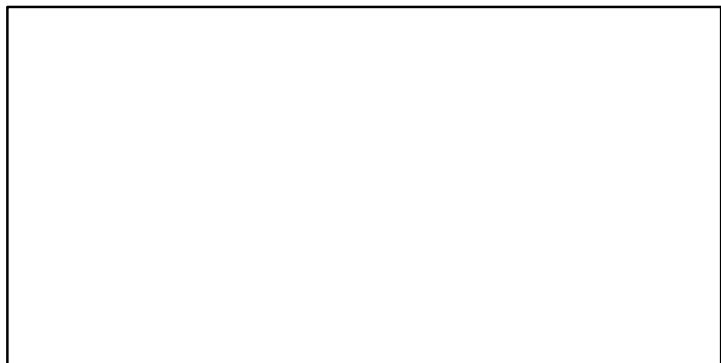
survB*



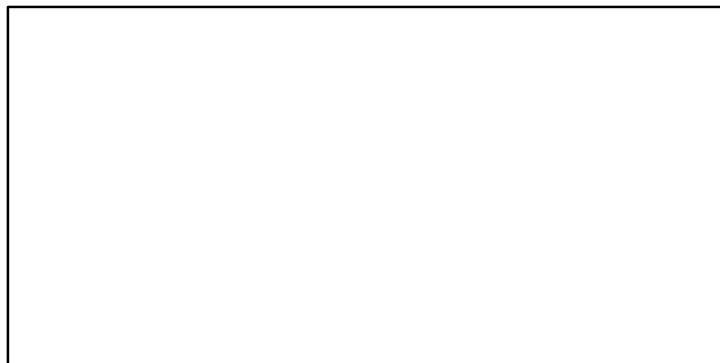
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Spotted ray ICES 6-7bj [SPRAYVI-VIIbj]

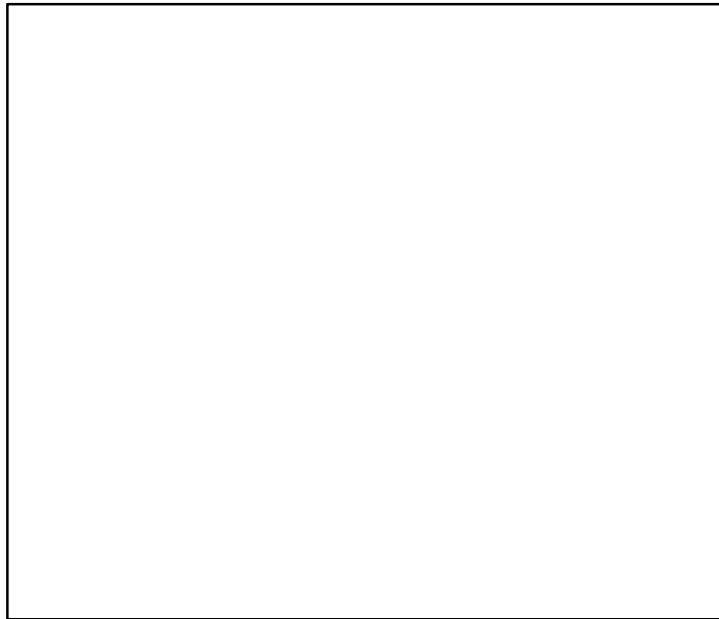
Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVI-VIIbj-2005-2015-ICESIMP2018
Area	ICES 6-7bj
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

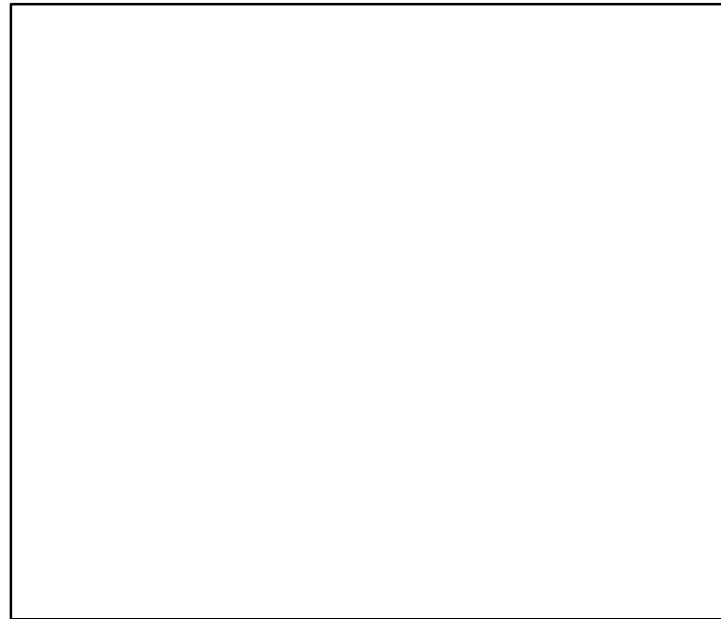
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	119		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted ray ICES 6–7bj [SPRAYVI–VIIbj]

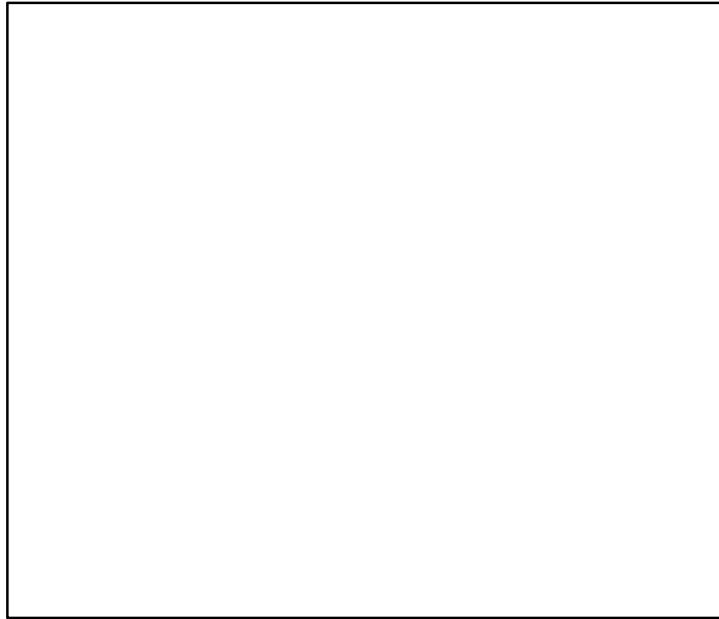
Kobe MSY*



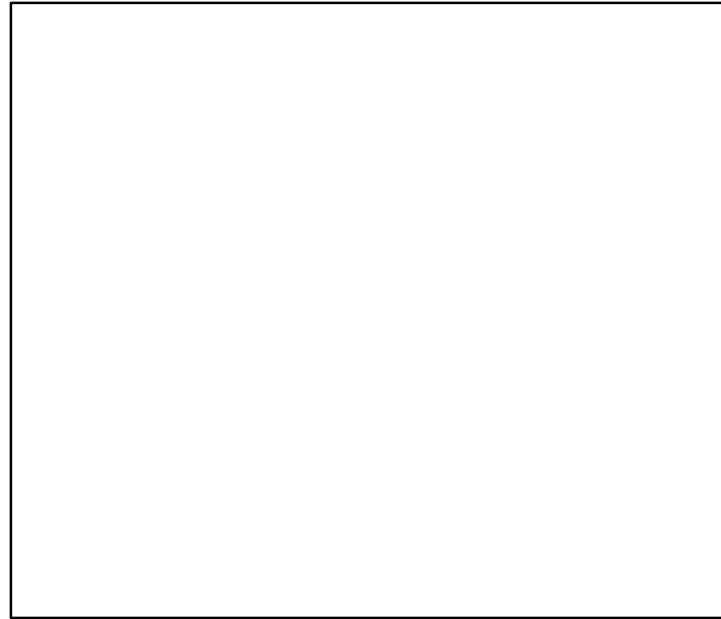
Kobe MGT*



Spawner Recruit*



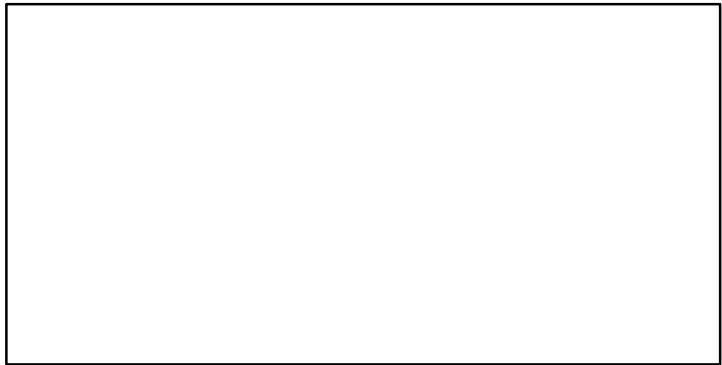
Production*



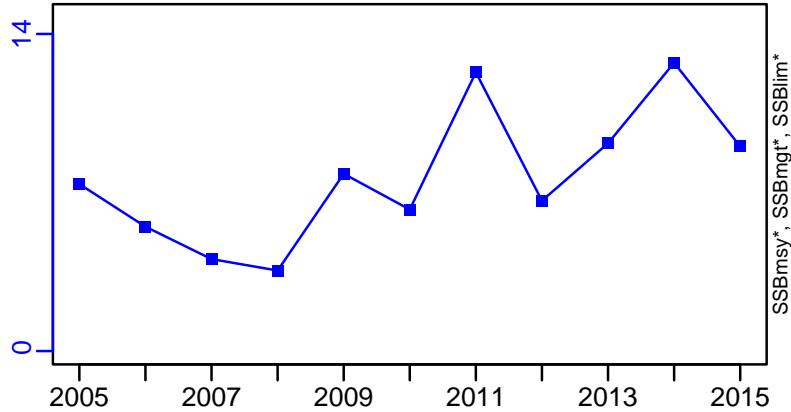
◆ Start Year ♦ End Year * No Data

Spotted ray ICES 6–7bj [SPRAYVI–VIIbj]

TB*



SSB–index (2005–2015–ICESIMP2018)



SSB_ms*, SSB_{mgt}* , SSB_{lim}*

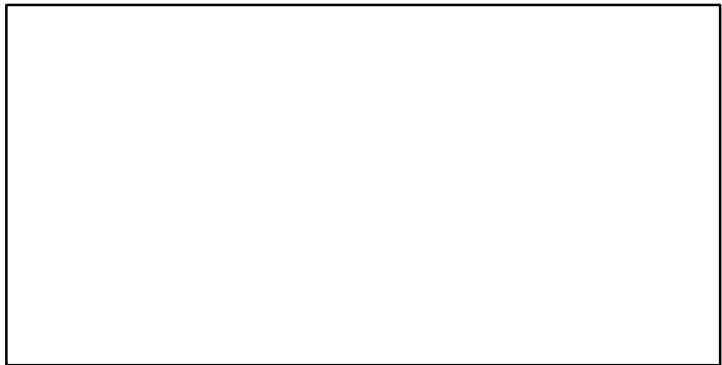
TN *



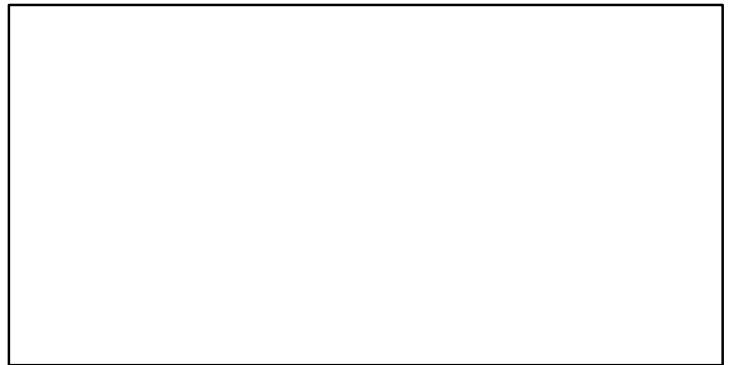
F*



ER*



Recruits*

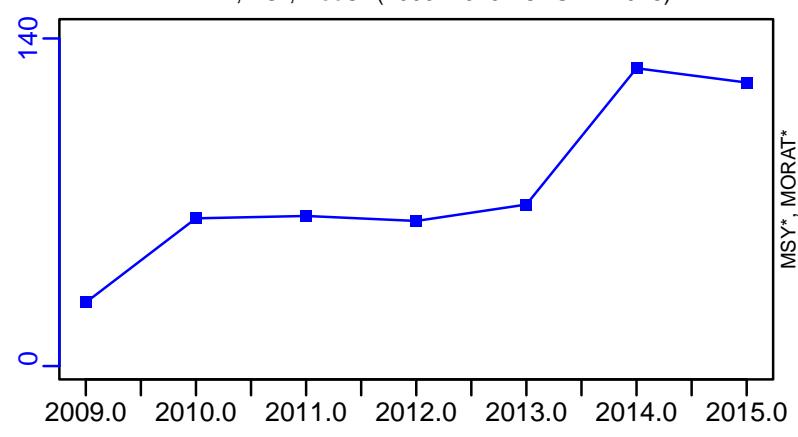


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Spotted ray ICES 6–7bj [SPRAYVI–VIIbj]

TL–MT, TC*, RecC* (2005–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Spurdog Northeast Atlantic [SPURDNEATL]

Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	WGEF-SPURDNEATL-1905-2020-ICESIMP2021-2
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016, 2020

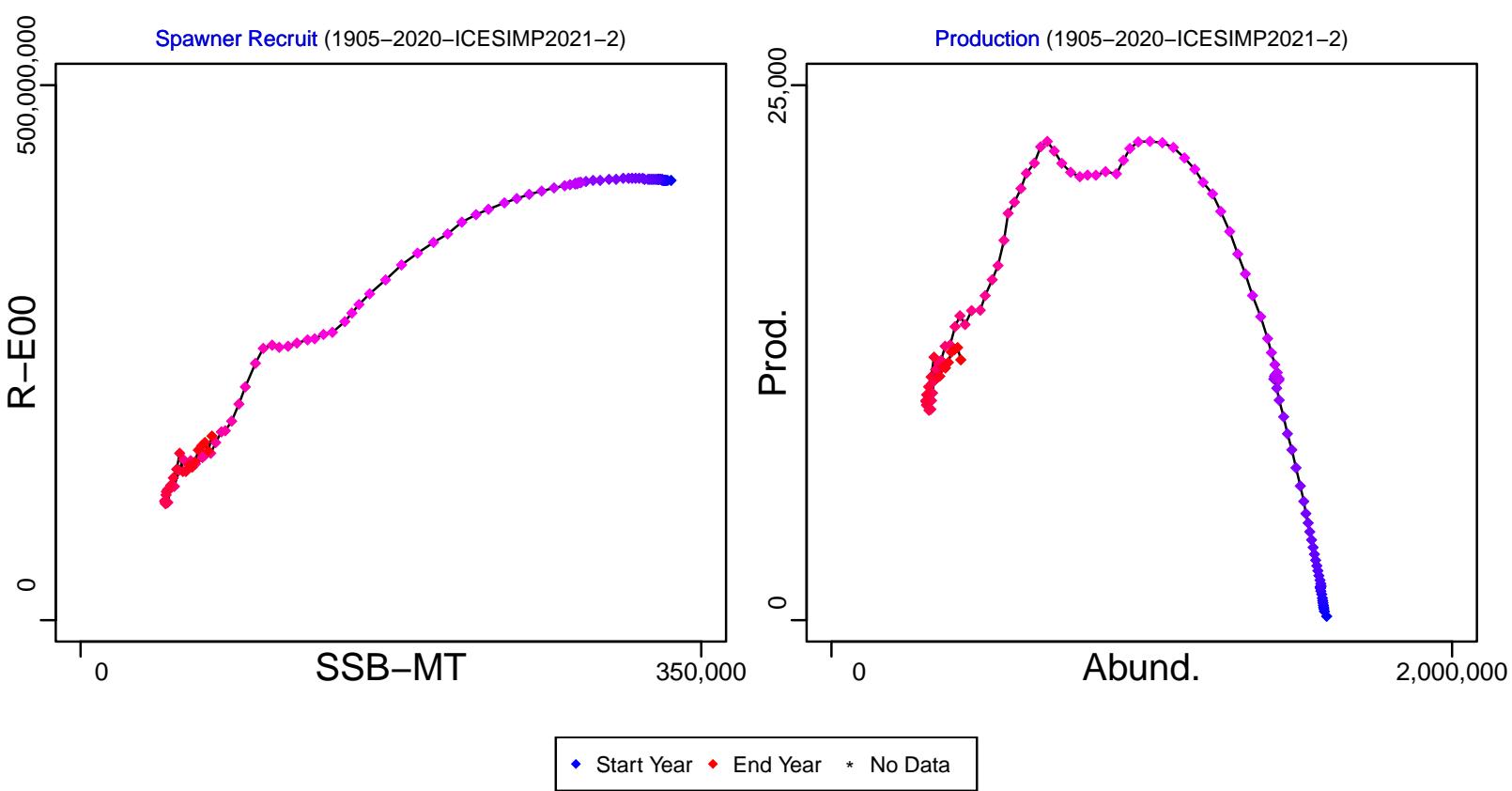
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.029
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.029
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2020	436,999	-	-	
SSB	SSB-MT	2020	74,100	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	1.72×10^8	-	0	
F	F-relative	2020	0.008	-	-	
ER	ER-calc-ratio	2020	0.006	-	-	
TC	TC-MT	2020	2470			
TL	TL-MT	2020	454			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.466			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Spurdog Northeast Atlantic [SPURDNEATL]

Kobe MSY*

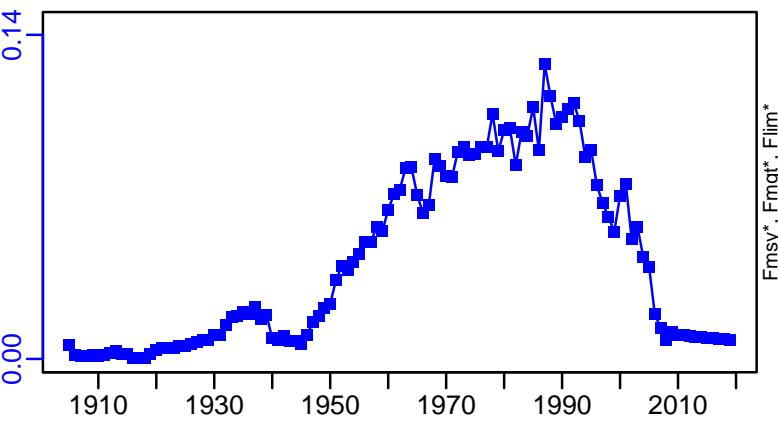
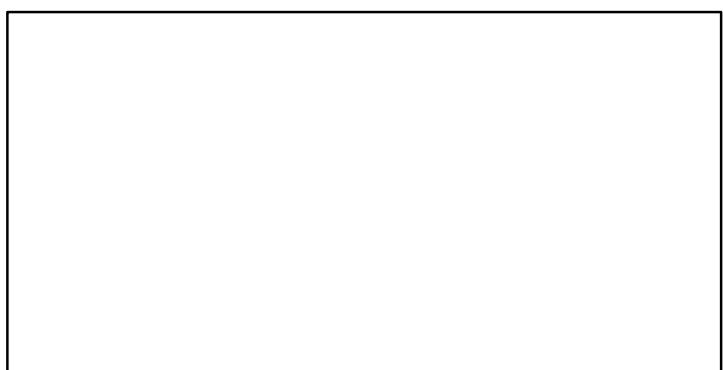
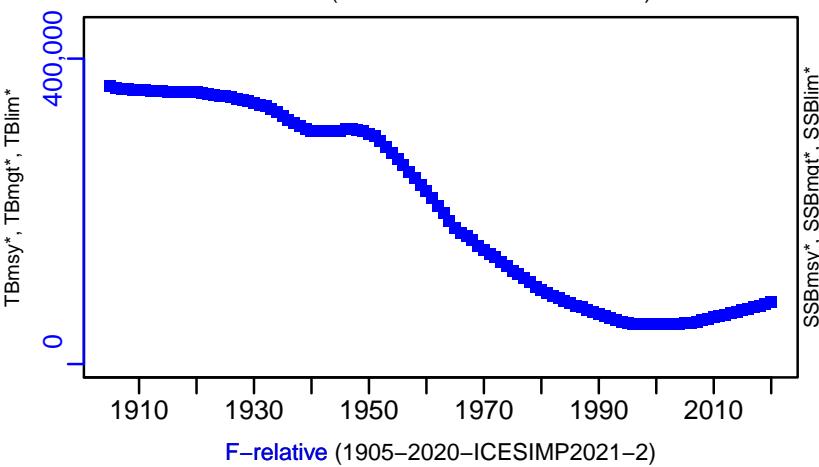
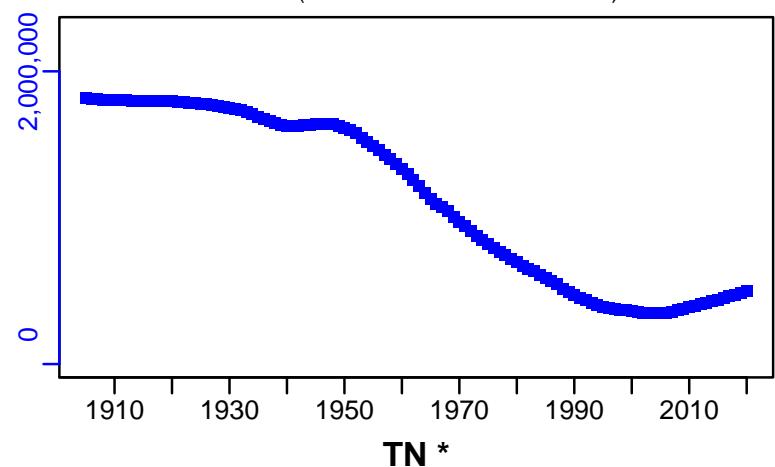
Kobe MGT*



Spurdog Northeast Atlantic [SPURDNEATL]

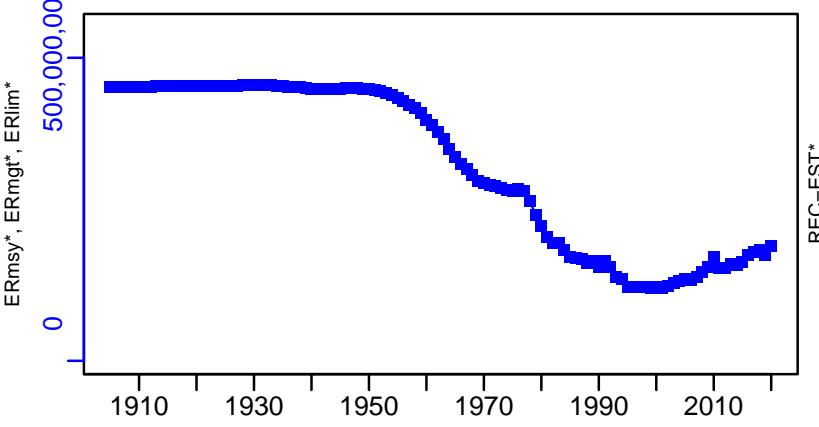
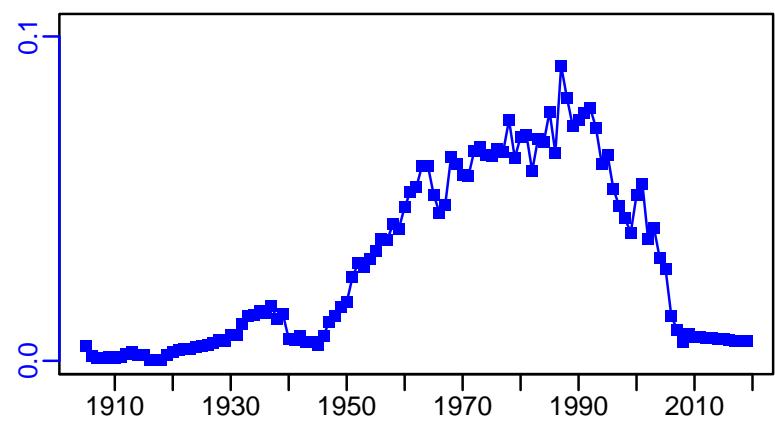
TB-MT (1905–2020–ICESIMP2021–2)

SSB-MT (1905–2020–ICESIMP2021–2)



ER-calc-ratio (1905–2020–ICESIMP2021–2)

R-E00 (1905–2020–ICESIMP2021–2)

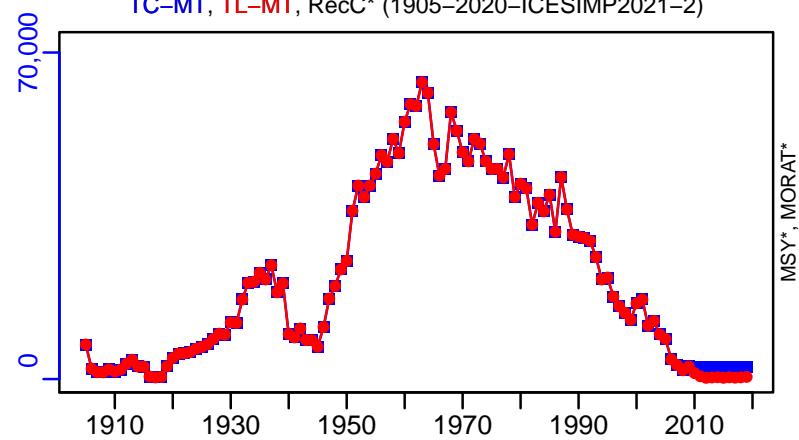


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	··· Lim BRP	* No Data

Spurdog Northeast Atlantic [SPURDNEATL]

TC-MT, TL-MT, RecC* (1905–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



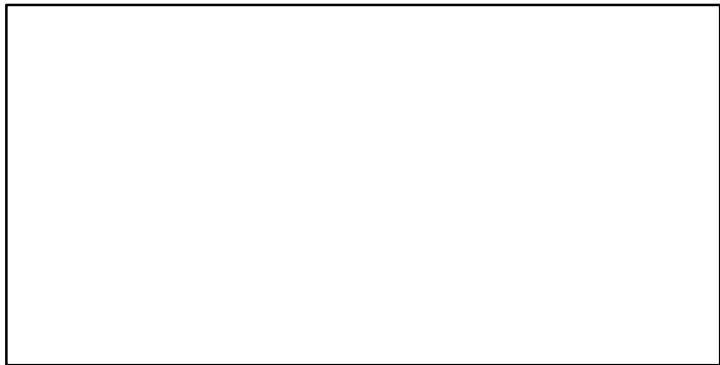
survB*



CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

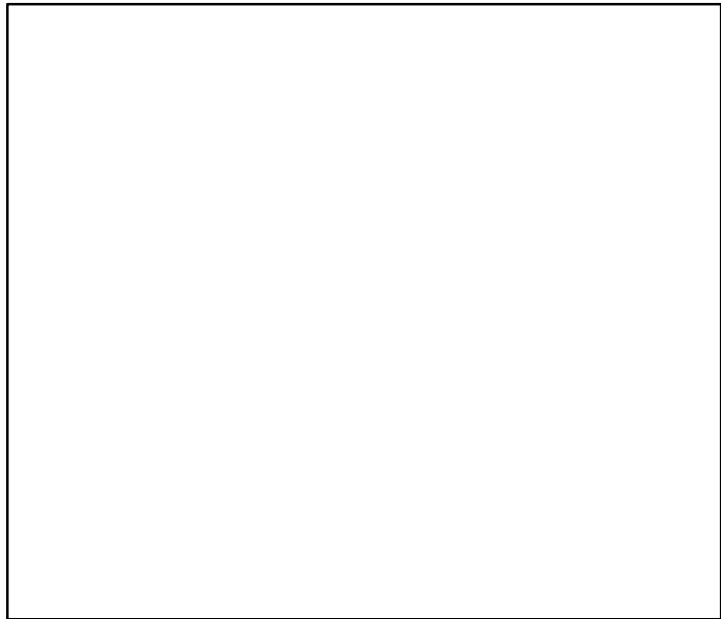
Starry ray ICES 2-3a-4 [STRAYII-IIIA-IV]

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

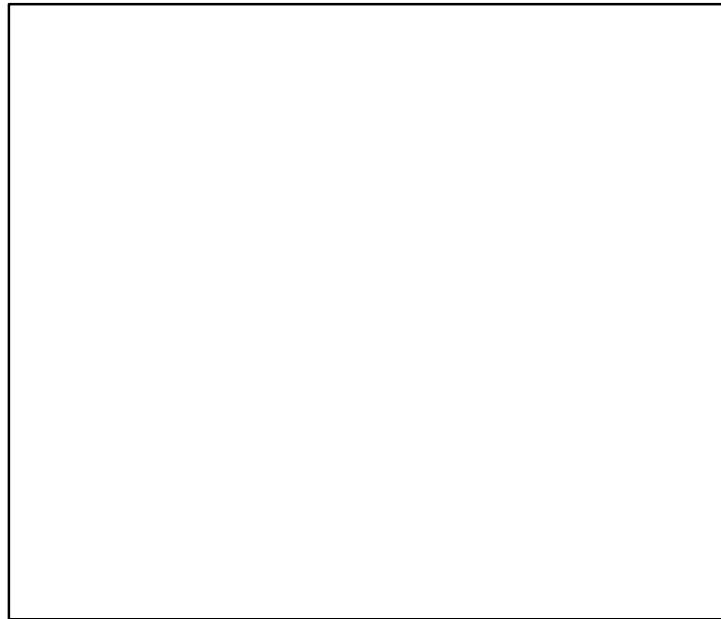
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

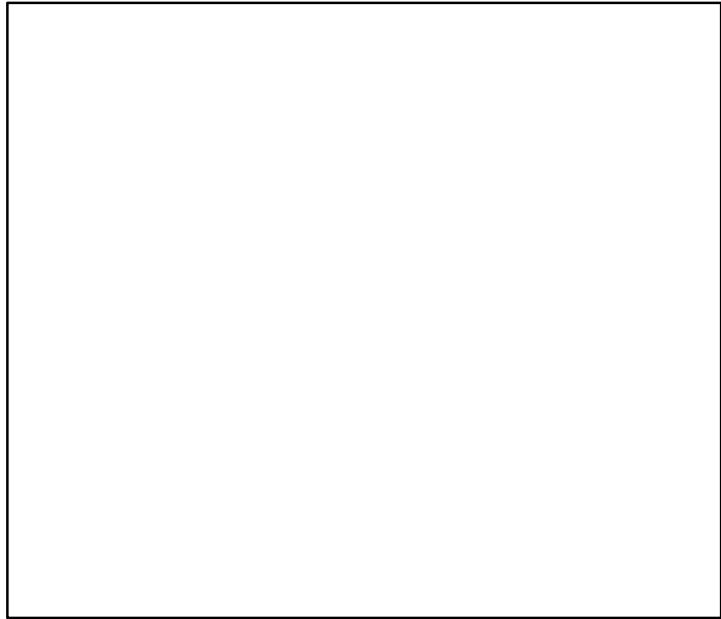
Kobe MSY*



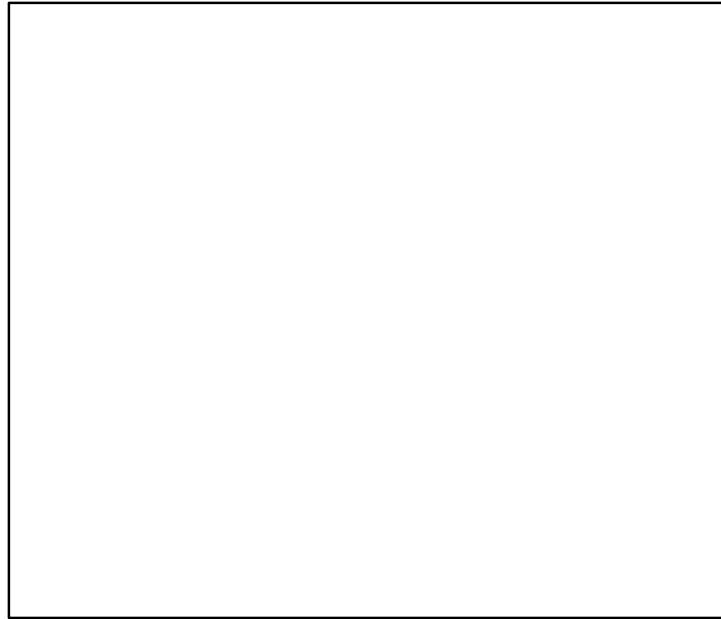
Kobe MGT*



Spawner Recruit*



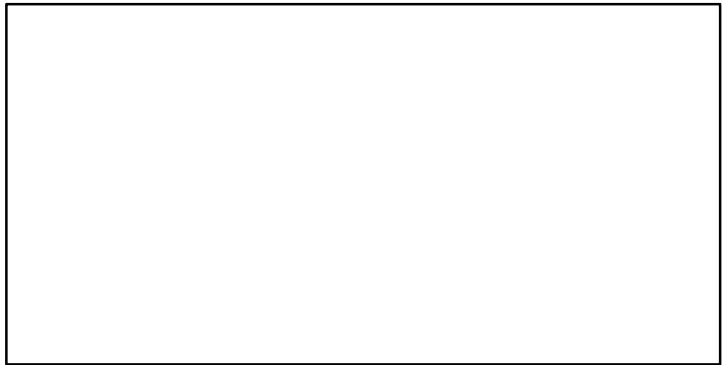
Production*



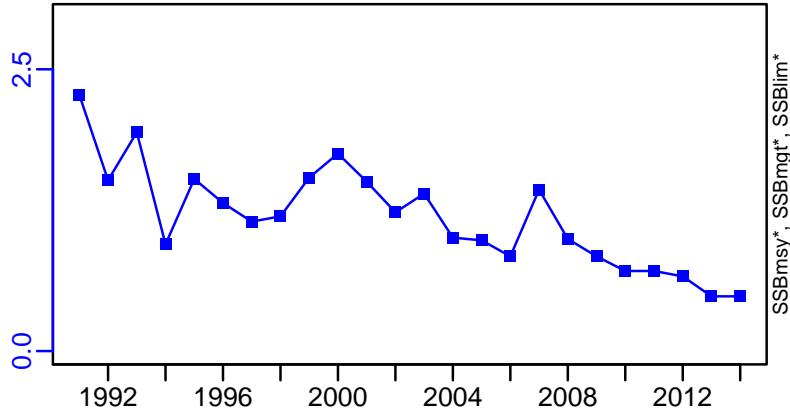
◆ Start Year ♦ End Year * No Data

Starry ray ICES 2–3a–4 [STRAYII–IIIa–IV]

TB*



SSB–index (1991–2014–ICESIMP2018)



SSB_{mgt*}, SSB_{lim*}

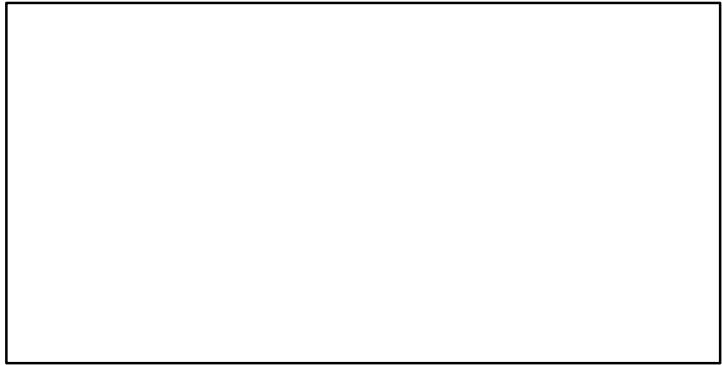
TN *



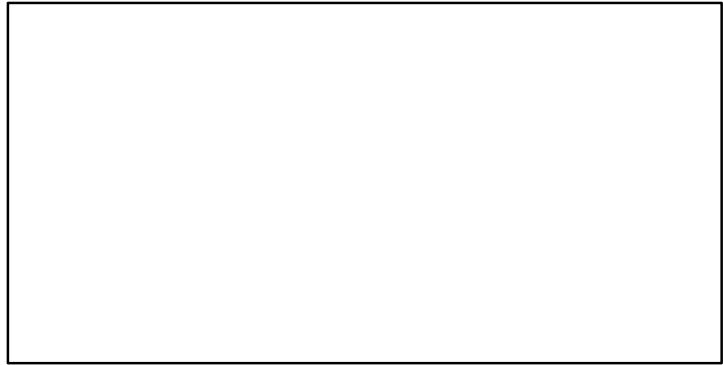
F*



ER*



Recruits*

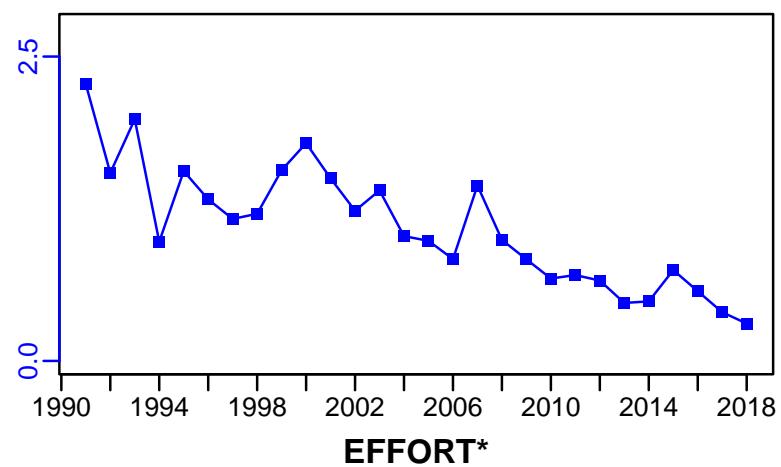
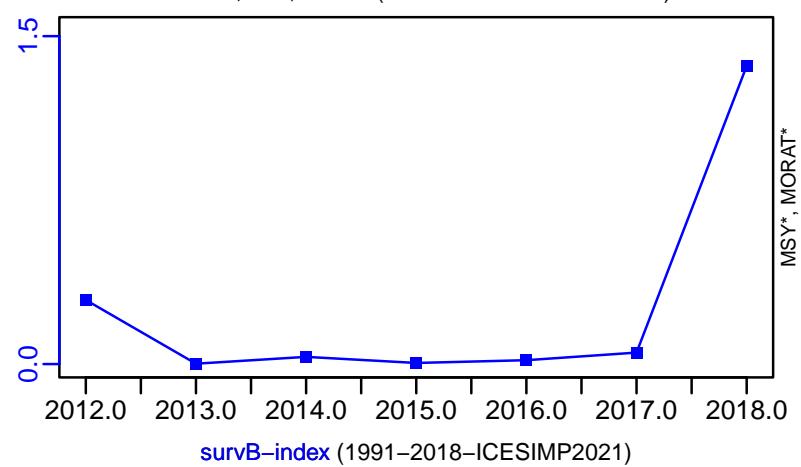


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

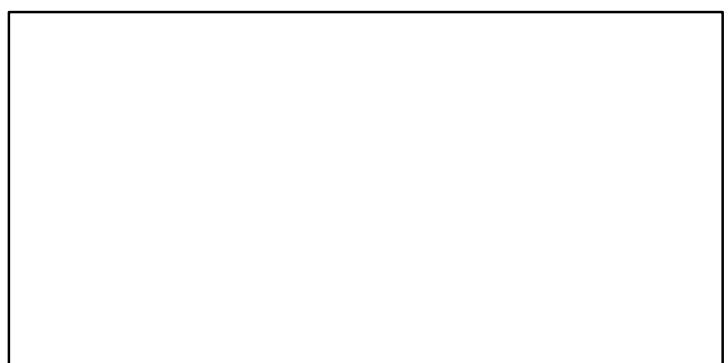
Starry ray ICES 2-3a-4 [STRAYII-IIla-IV]

TL-MT, TC*, RecC* (1991–2018–ICESIMP2021)

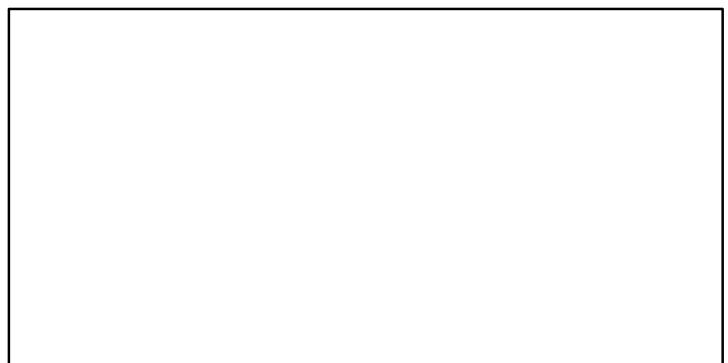
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Striped red mullet ICES 3a-4-7d [STRMULLIIla-IV-VIId]

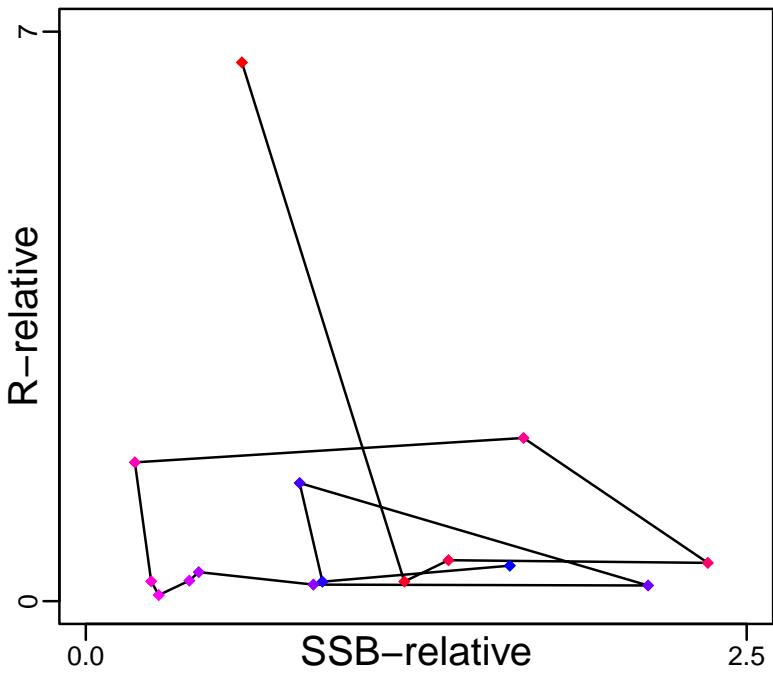
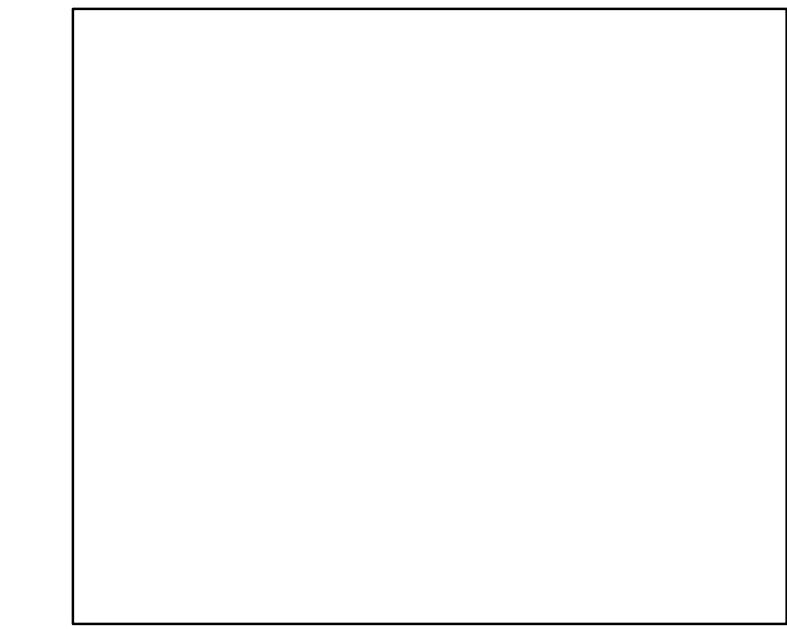
Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGNSSK-STRMULLIIla-IV-VIId-2004-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016, 2018, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-relative	2018	0.591	-	-	
TN	-	-	-	-	-	
R	R-relative	2018	7	-	-	
F	F-relative	2018	2.077	-	1 to 2	
ER	-	-	-	-	-	
TC	TC-MT	2018	1648			
TL	TL-MT	2020	3500			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

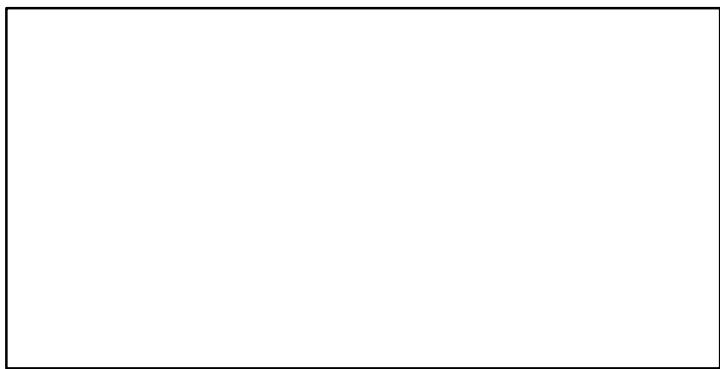
Spawner Recruit (2004–2018–ICESIMP2021)

**Production***

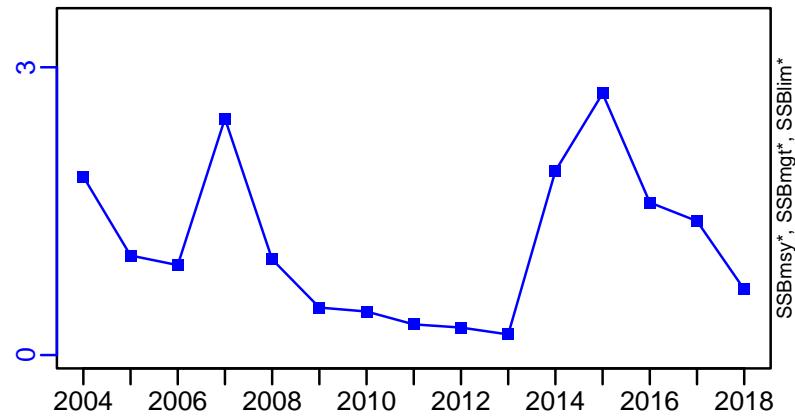
◆ Start Year ◆ End Year * No Data

Striped red mullet ICES 3a-4-7d [STRMULLIa-IV-VIId]

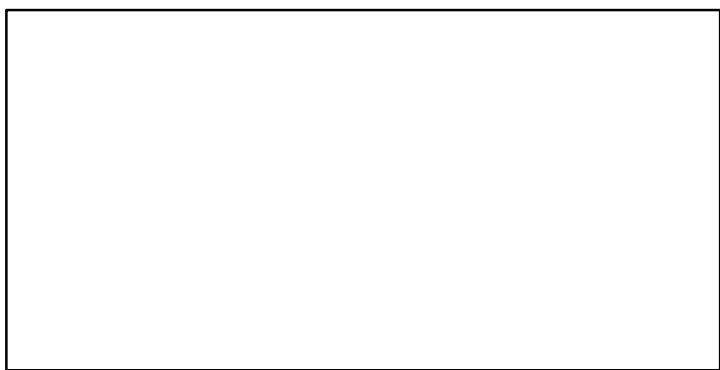
TB*



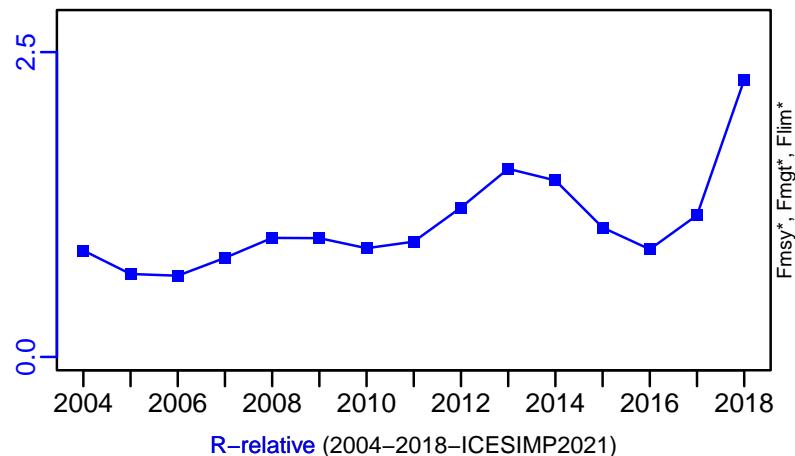
SSB-relative (2004–2018–ICESIMP2021)



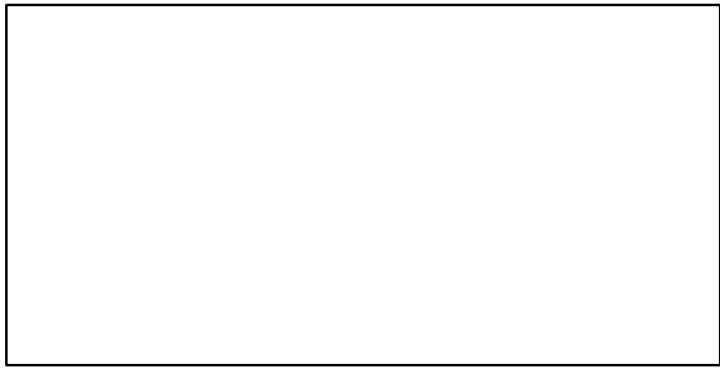
TN *



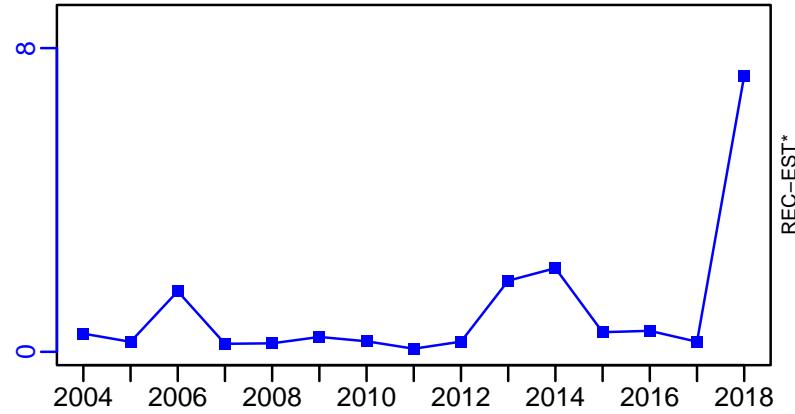
F-relative (2004–2018–ICESIMP2021)



ER*



R-relative (2004–2018–ICESIMP2021)

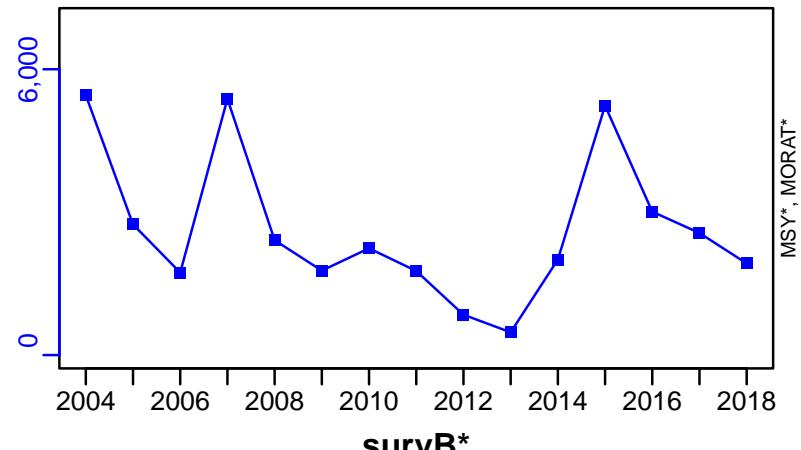


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

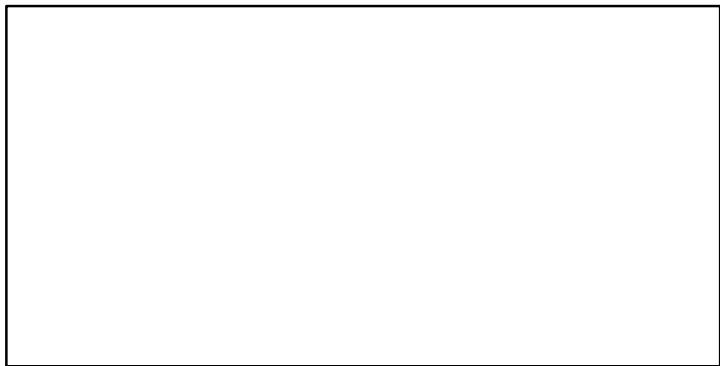
Striped red mullet ICES 3a-4-7d [STRMULLIlla-IV-VIId]

TC-MT, TL*, RecC* (2004–2018–ICESIMP2021)

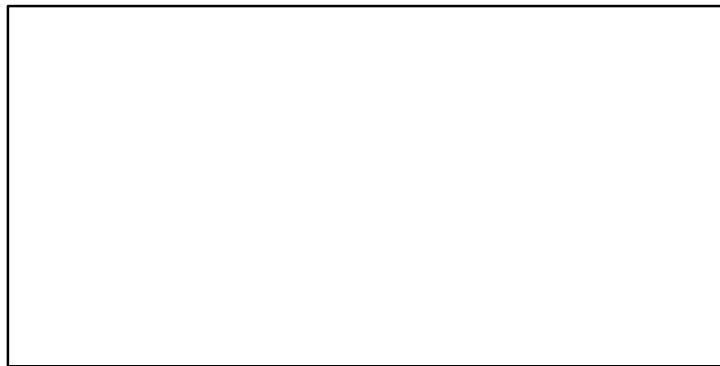
TAC*, Cpair*, Cadv*



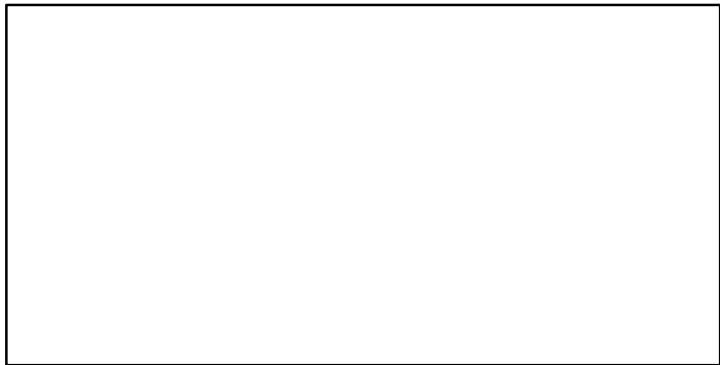
survB*



CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

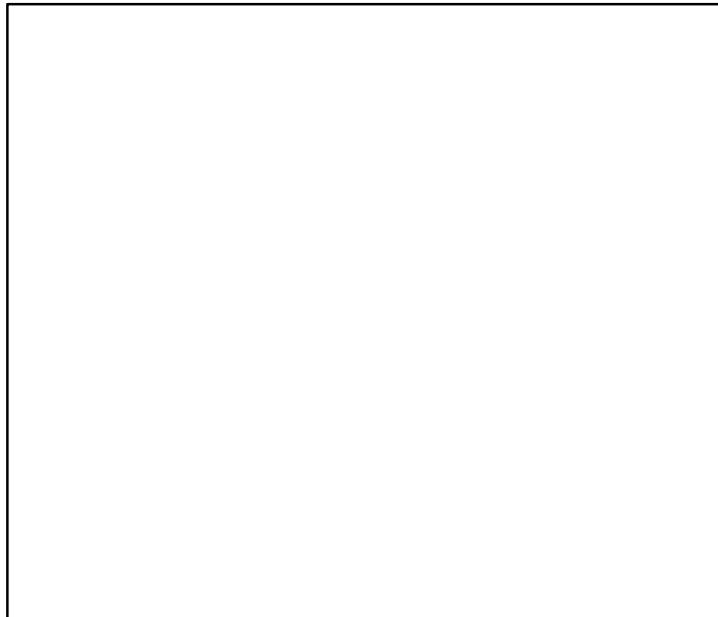
Striped red mullet ICES 6-7abcefghijk-8-9a [STRMULLVI-VIIabcefghijk-VIII-IXa]

Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGWISE-STRMULLVI-VIIabcefghijk-VIII-IXa-1979-2019-ICESIMP2021-2
Area	ICES 6-7abcefghijk-8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 2016, 2019

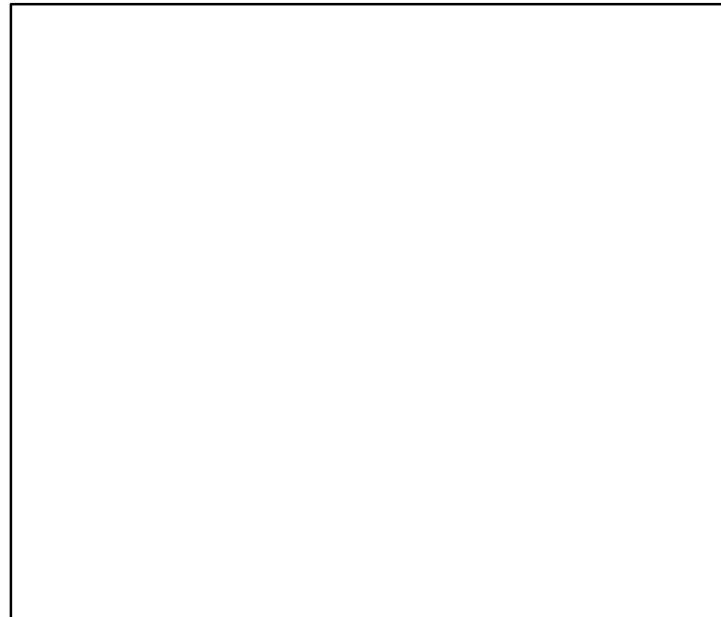
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	1850		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

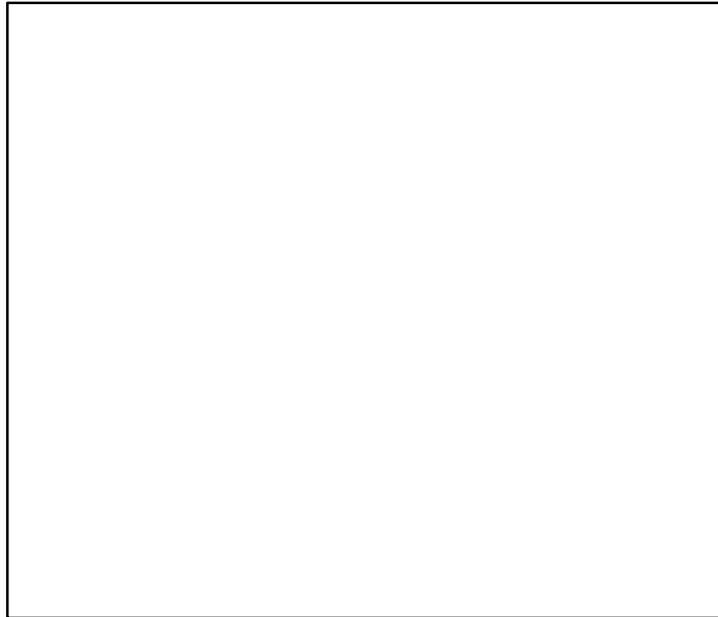
Kobe MSY*



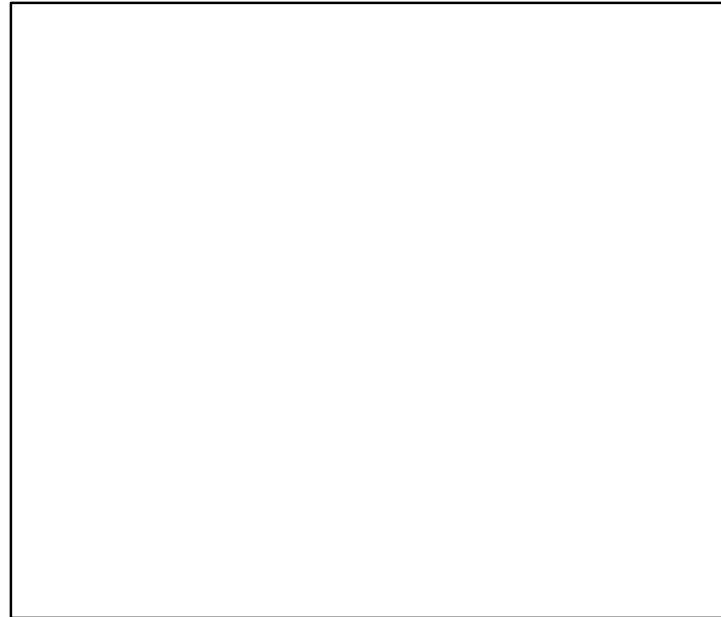
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Striped red mullet ICES 6–7abcefghijk–8–9a [STRMULLVI–VIIabcefghijk–VIII–IXa]

TB*



SSB*



TN *



F*



ER*



Recruits*

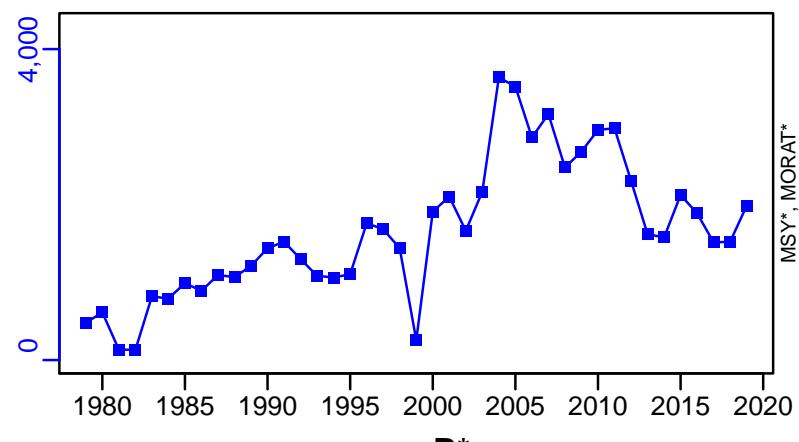


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Striped red mullet ICES 6–7abcefghijk–8–9a [STRMULLVI–VIIabcefghijk–VIII–IXa]

TL–MT, TC*, RecC* (1979–2019–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

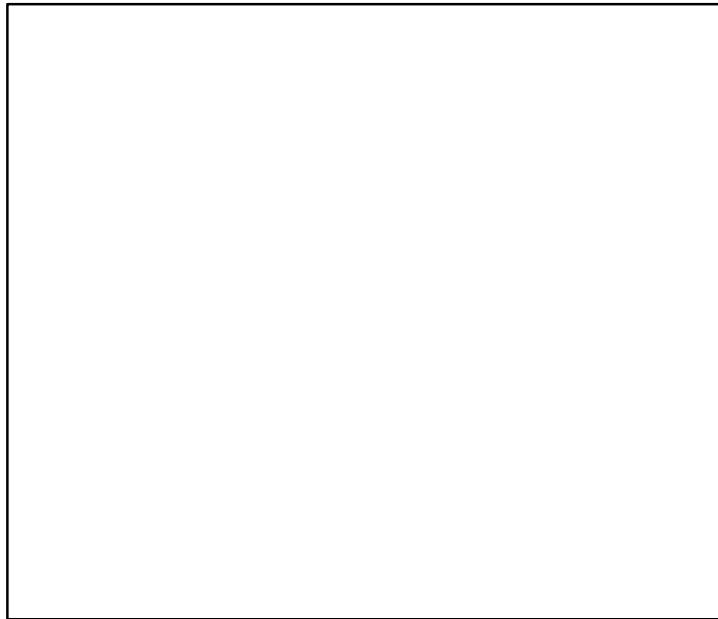
Sea trout Baltic Areas 22-32 [STROUT22-32]

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

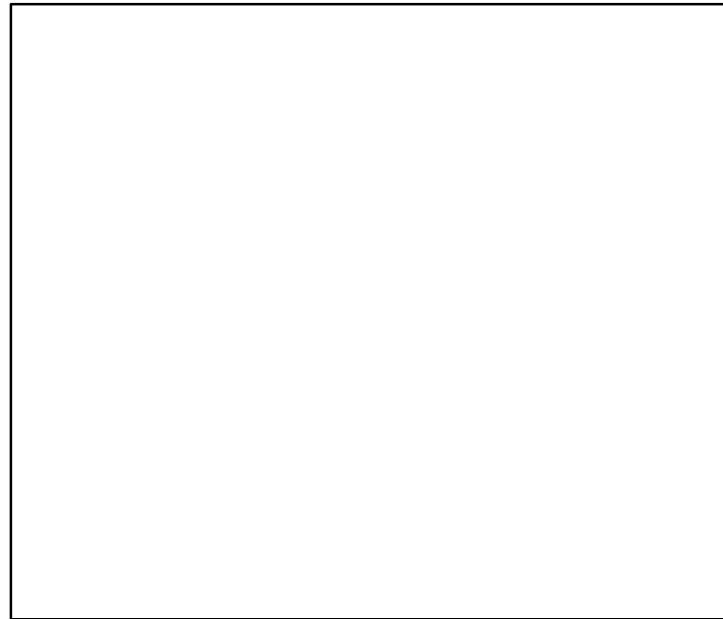
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

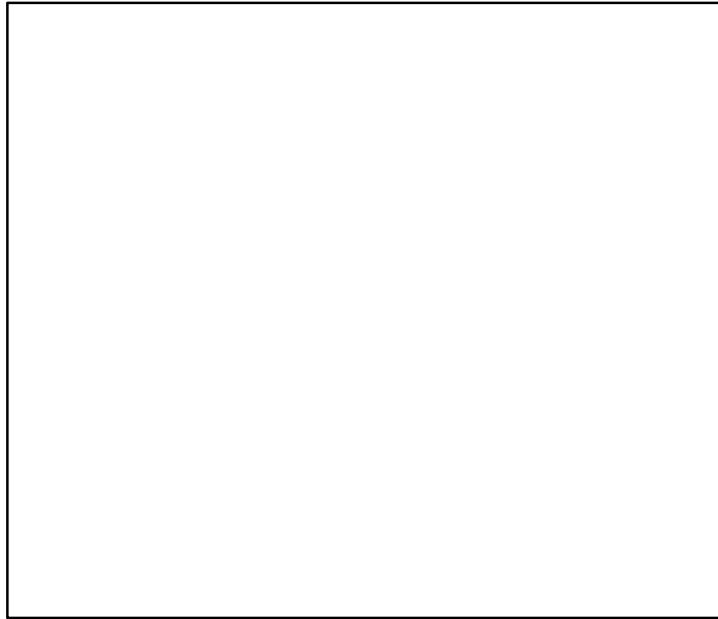
Kobe MSY*



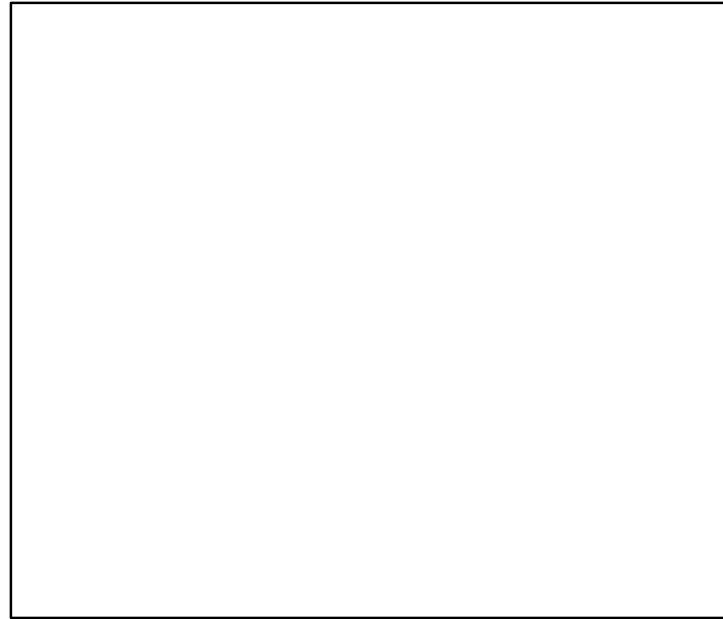
Kobe MGT*



Spawner Recruit*



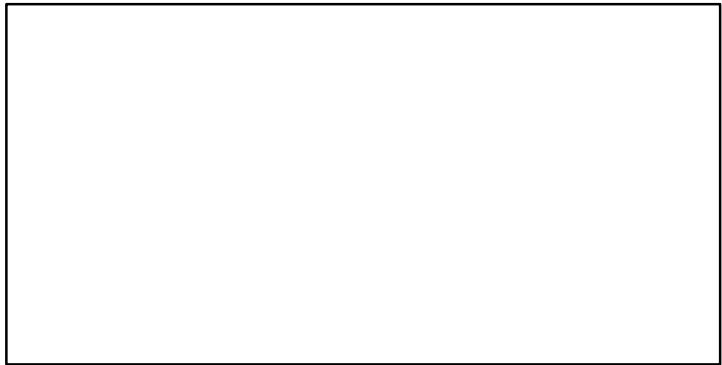
Production*



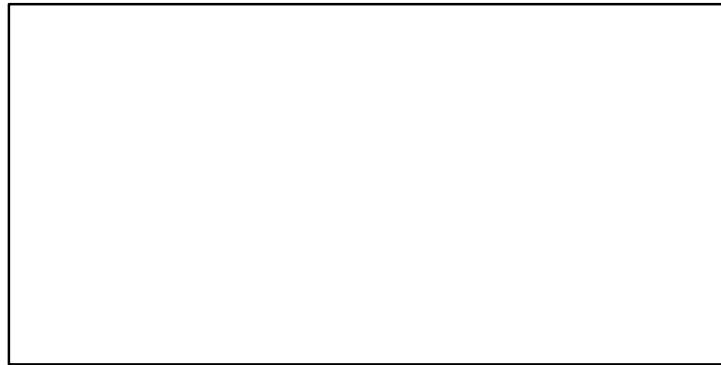
◆ Start Year ♦ End Year * No Data

Sea trout Baltic Areas 22–32 [STROUT22–32]

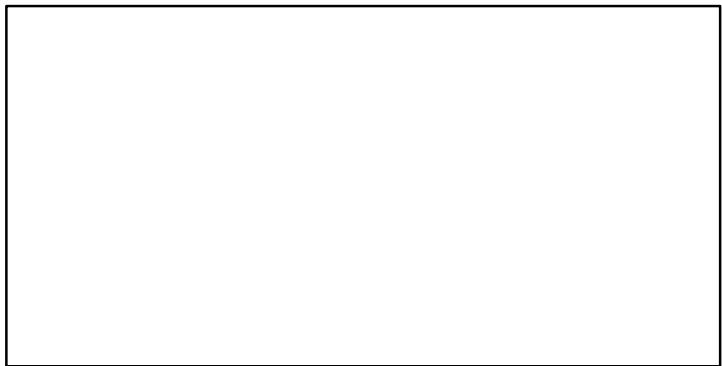
TB*



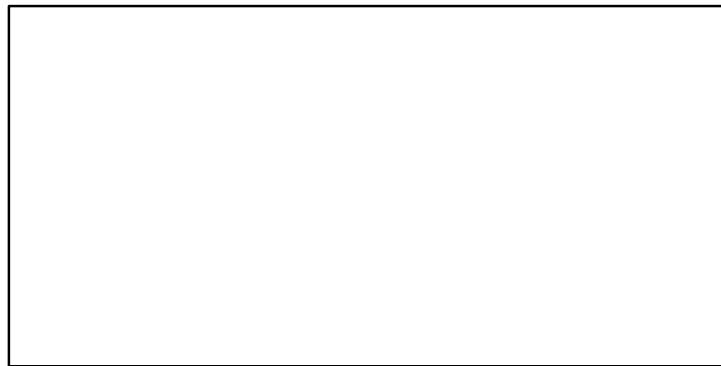
SSB*



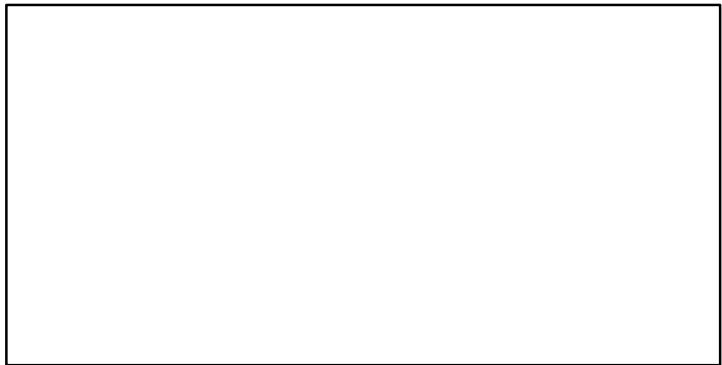
TN *



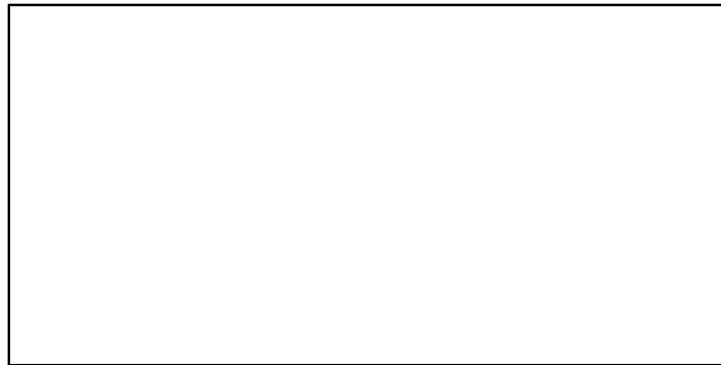
F*



ER*



Recruits*

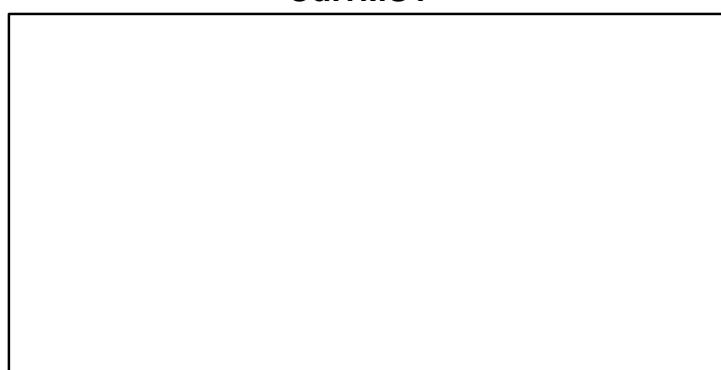
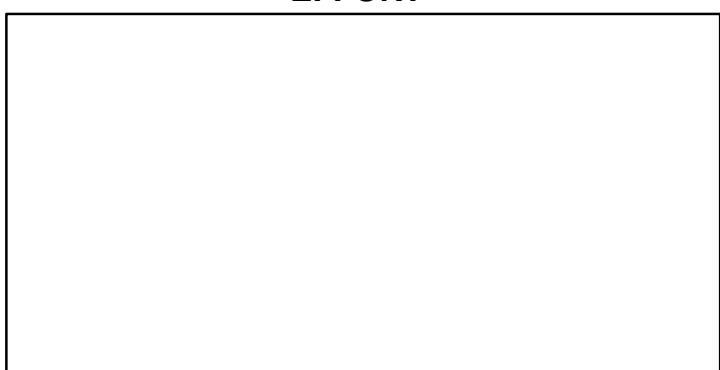
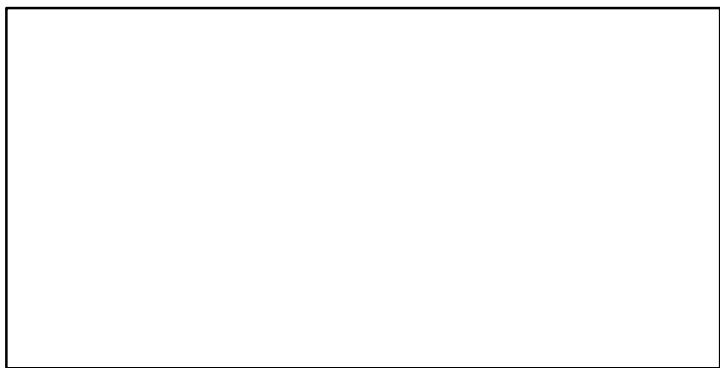
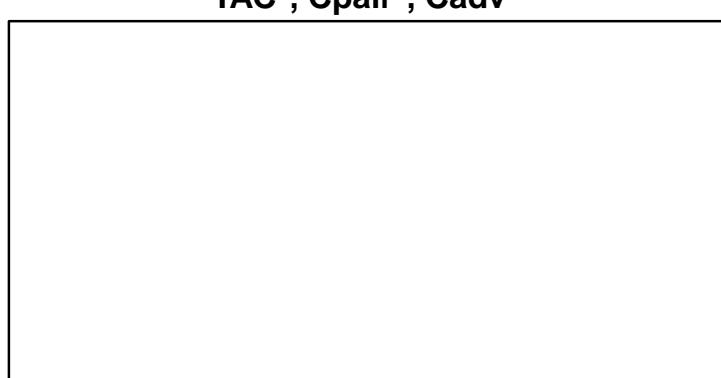
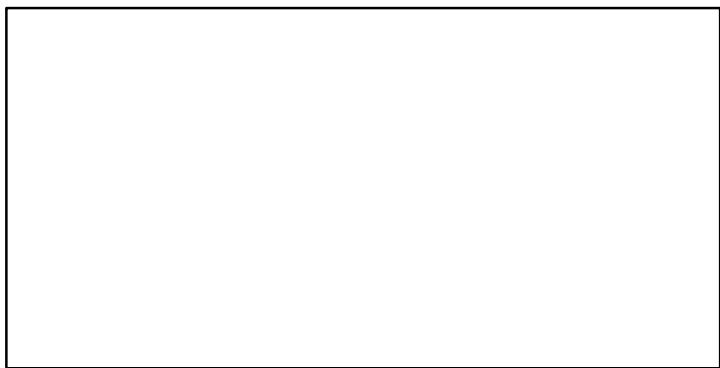
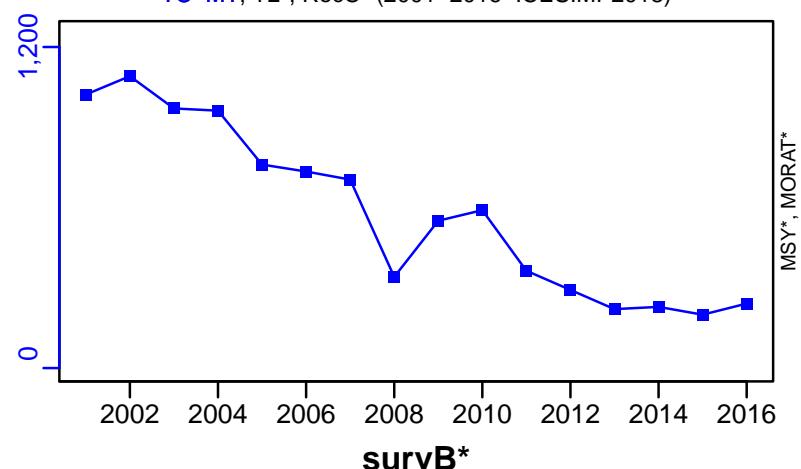


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sea trout Baltic Areas 22–32 [STROUT22–32]

TC-MT, TL*, RecC* (2001–2016—ICESIMP2018)

TAC*, Cpair*, Cadv*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

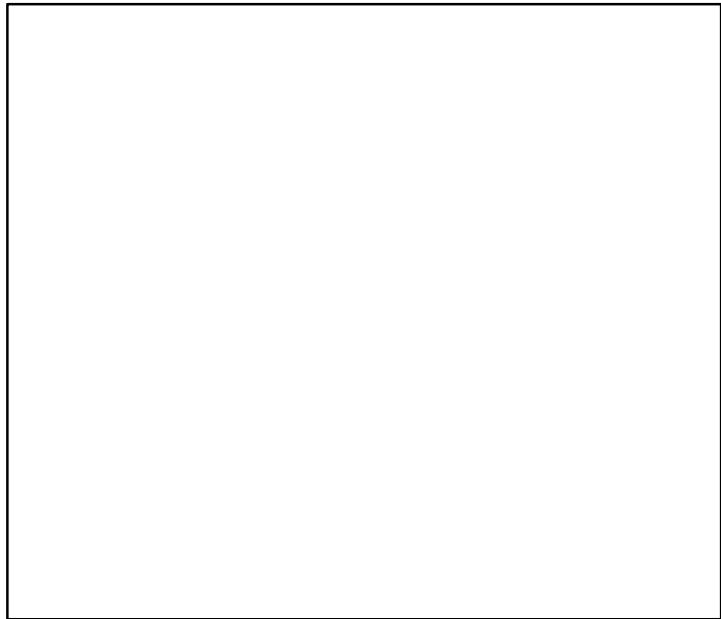
Thornback skate ICES 3a-4-7d [TBSKAIIla-IV-VIId]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIIla-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

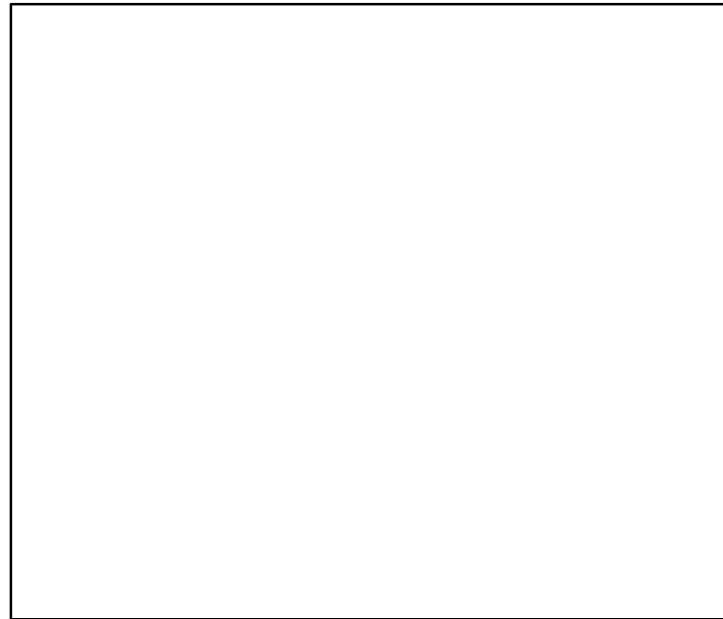
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

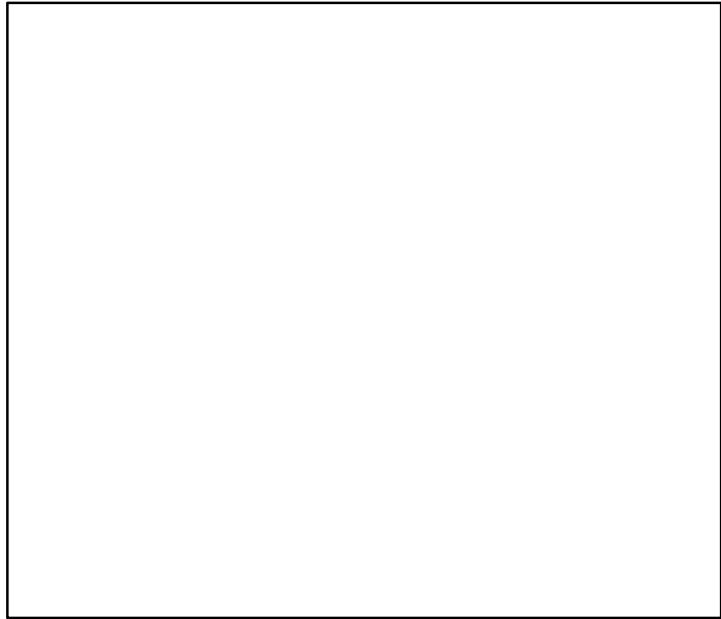
Kobe MSY*



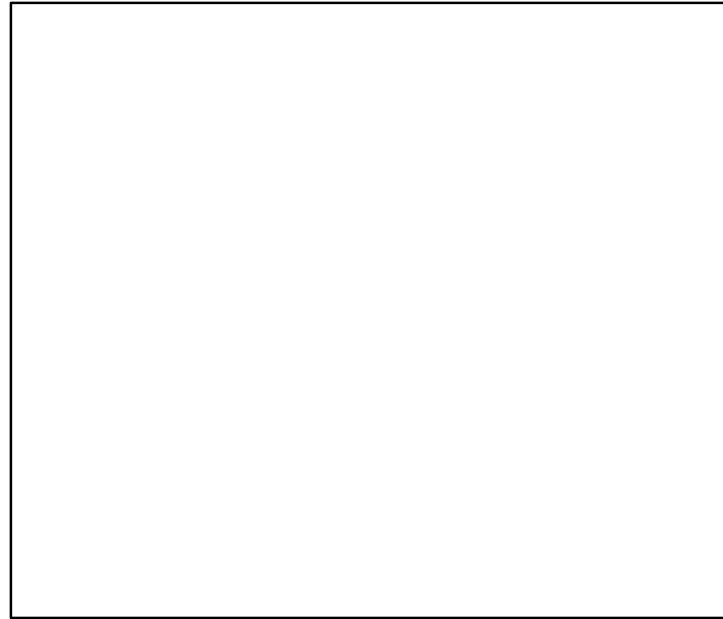
Kobe MGT*



Spawner Recruit*



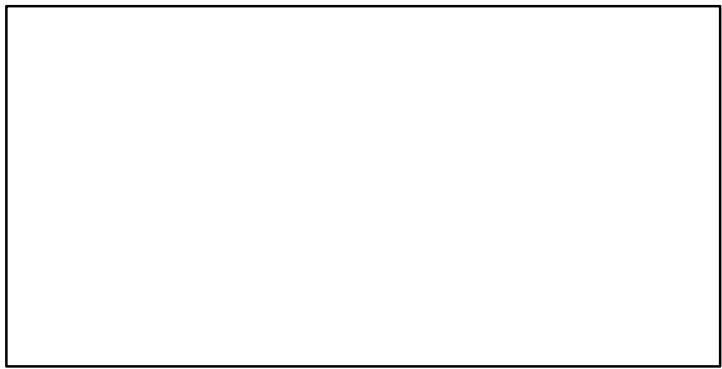
Production*



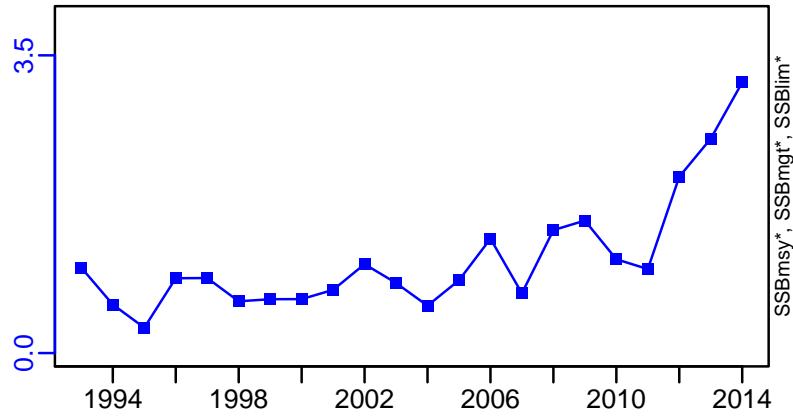
◆ Start Year ♦ End Year * No Data

Thornback skate ICES 3a–4–7d [TBSKAIIla–IV–VIIId]

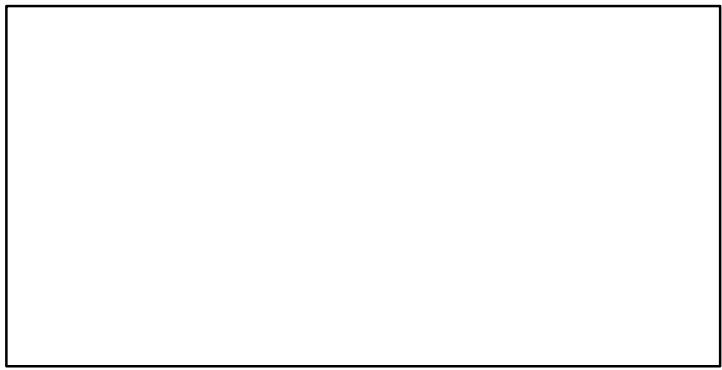
TB*



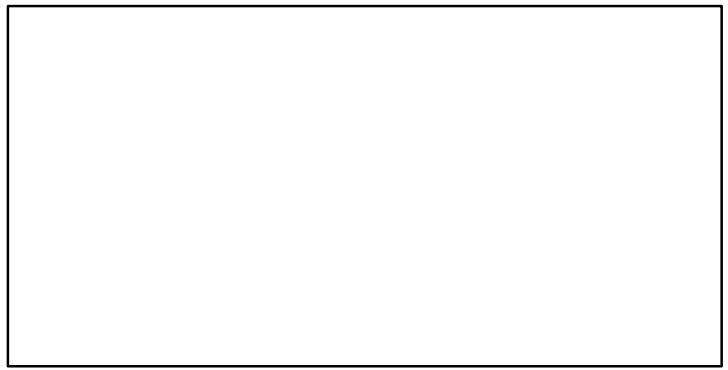
SSB-index (1993–2014–ICESIMP2018)



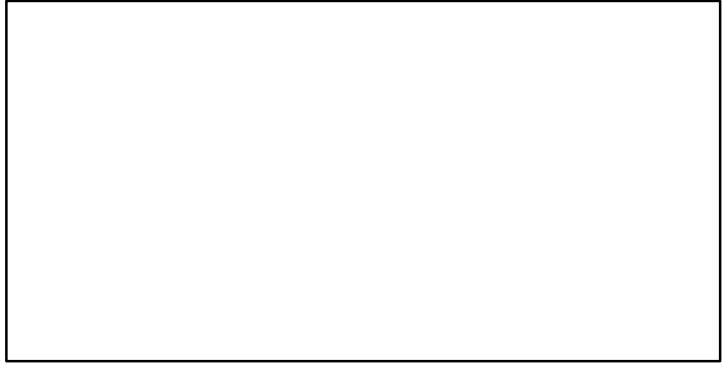
TN *



F*



ER*



Recruits*

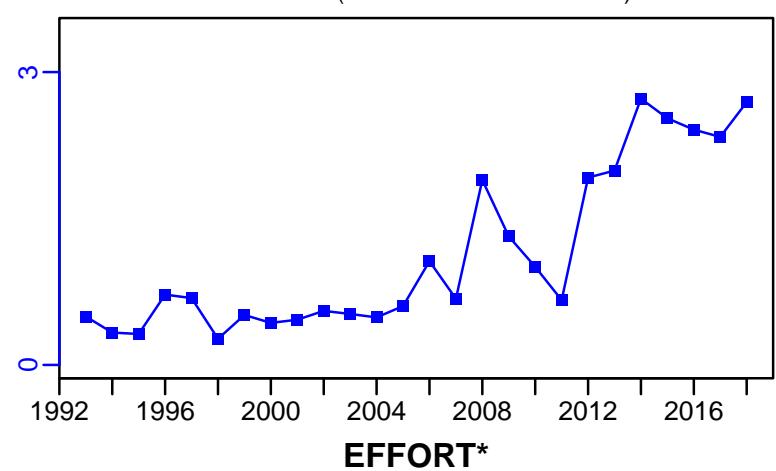
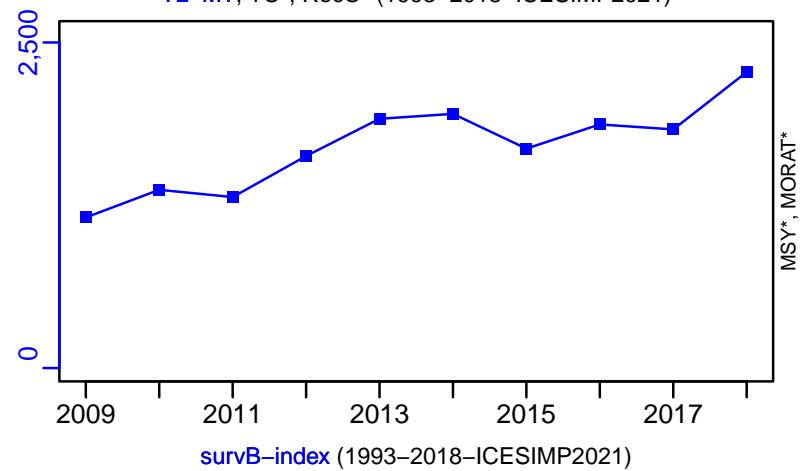


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

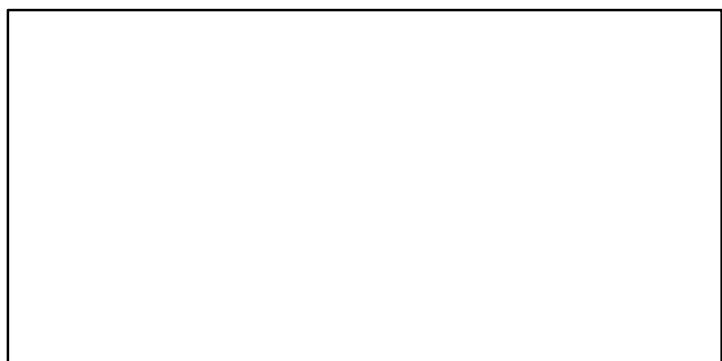
Thornback skate ICES 3a–4–7d [TBSKAIIla–IV–VIIId]

TL–MT, TC*, RecC* (1993–2018–ICESIMP2021)

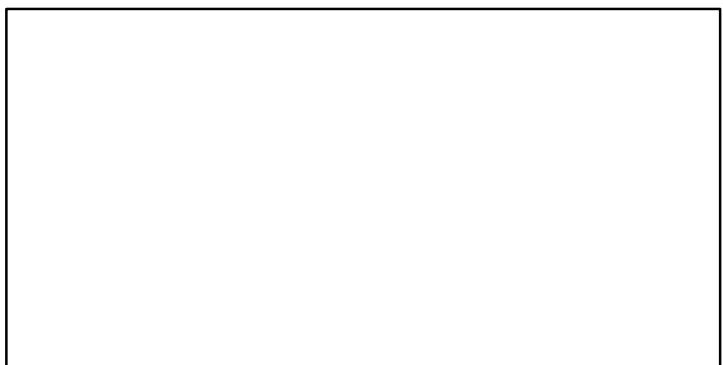
TAC*, Cpair*, Cadv*



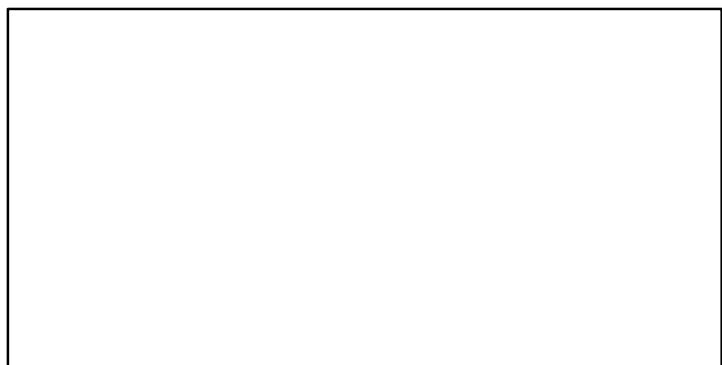
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

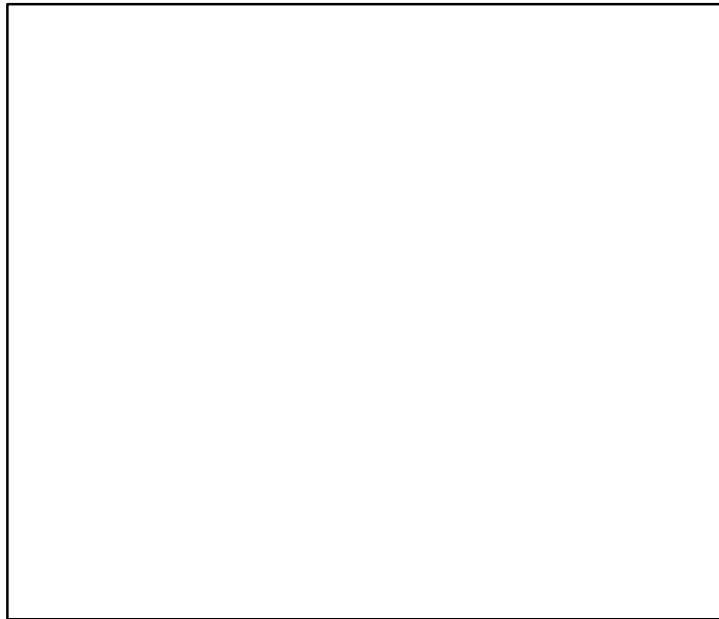
Thornback skate Portugese Waters -East [TBSKAIxa]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIxa-1997-2015-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

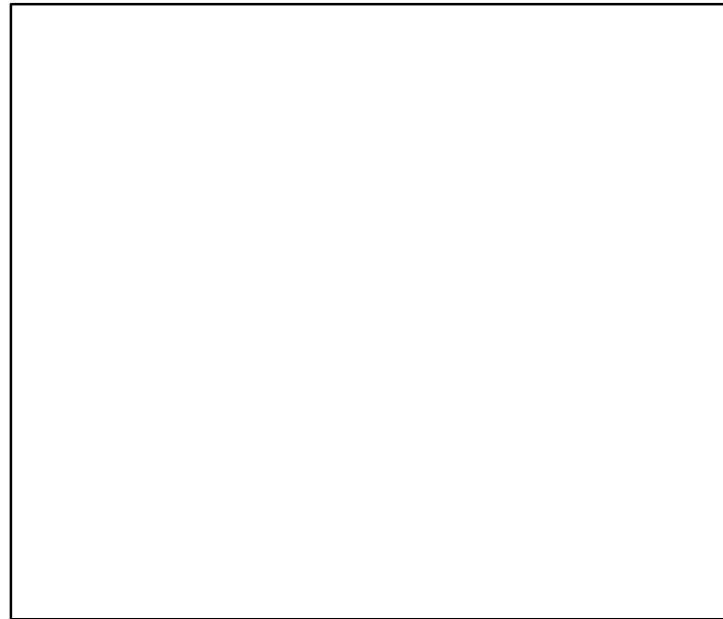
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2015	1.93	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	-	-	-		

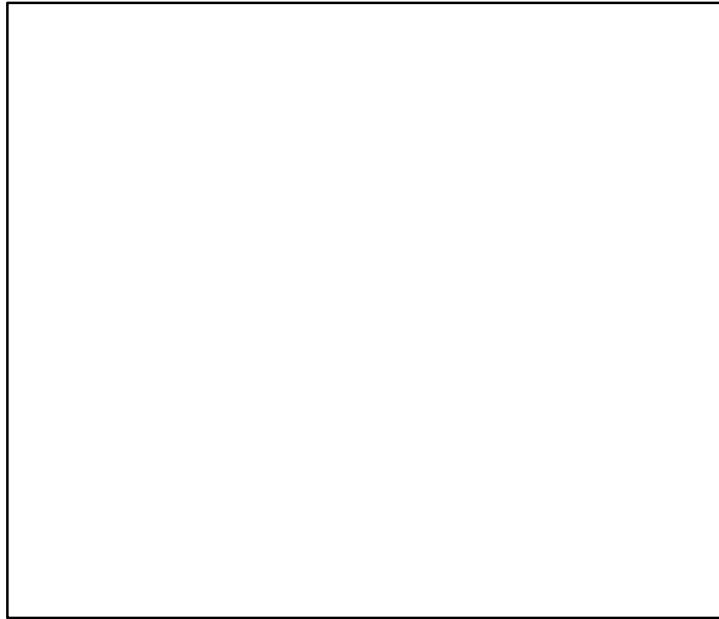
Kobe MSY*



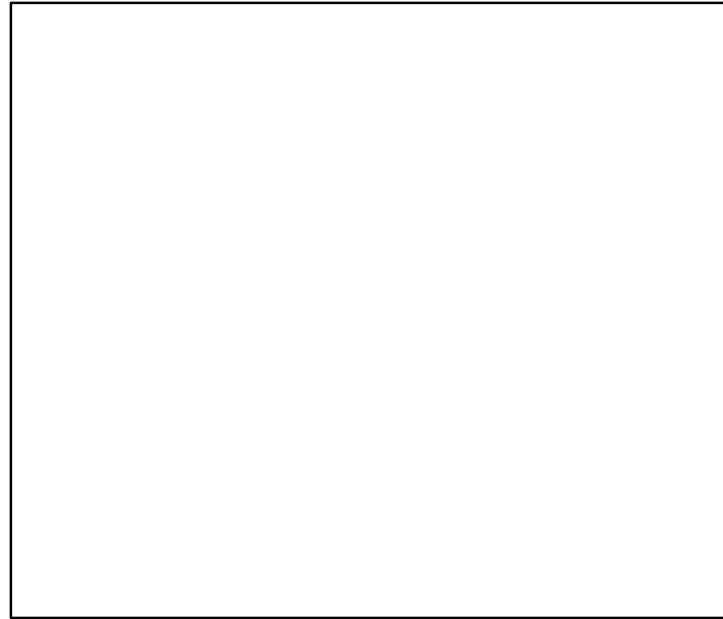
Kobe MGT*



Spawner Recruit*



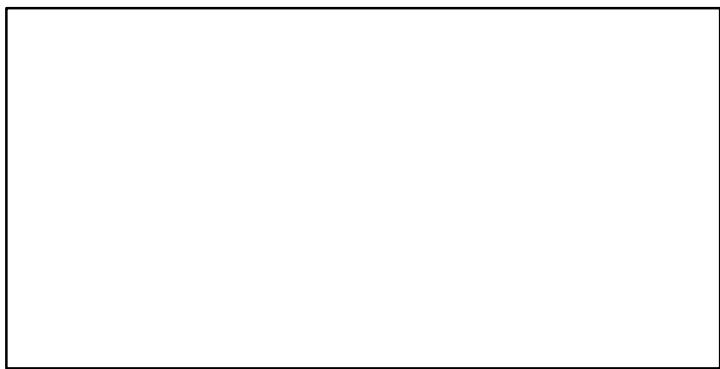
Production*



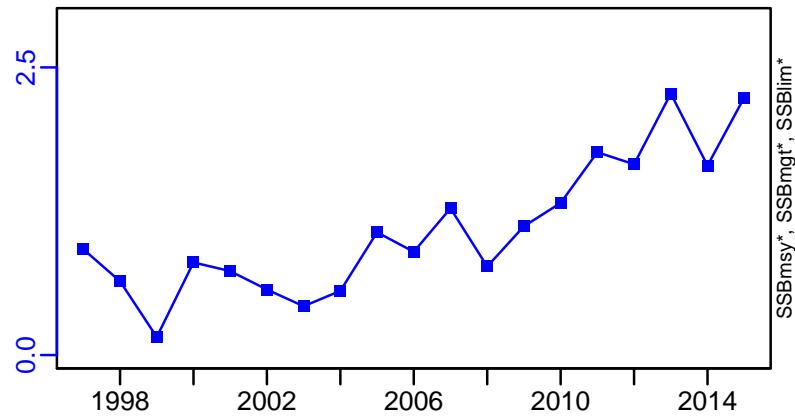
◆ Start Year ♦ End Year * No Data

Thornback skate Portuguese Waters –East [TBSKAIxa]

TB*



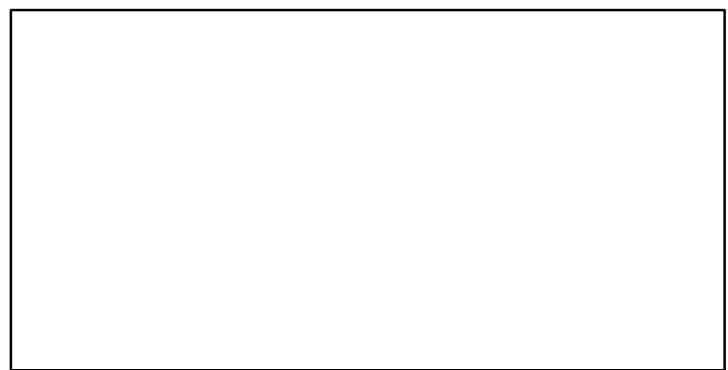
SSB–index (1997–2015–ICESIMP2018)



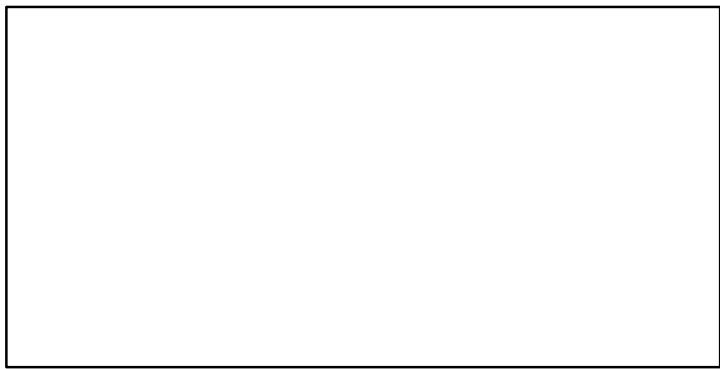
TN *



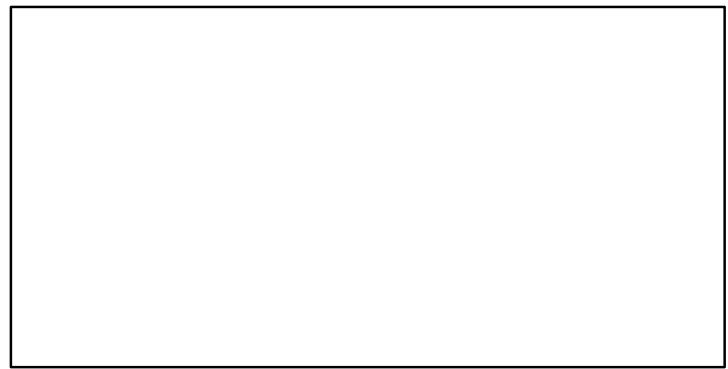
F*



ER*



Recruits*

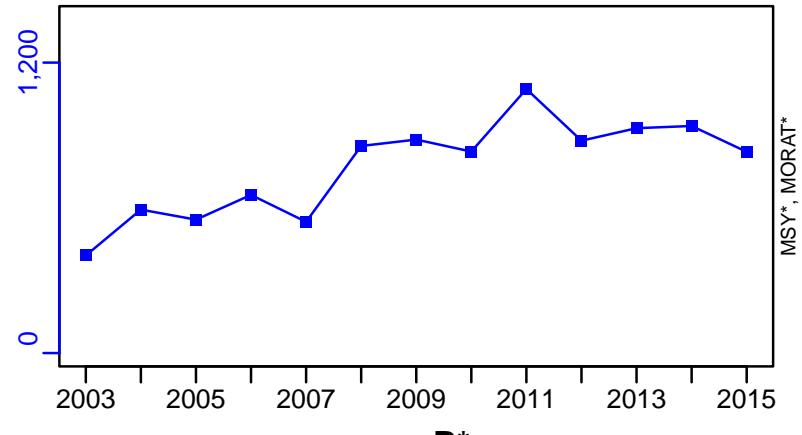


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

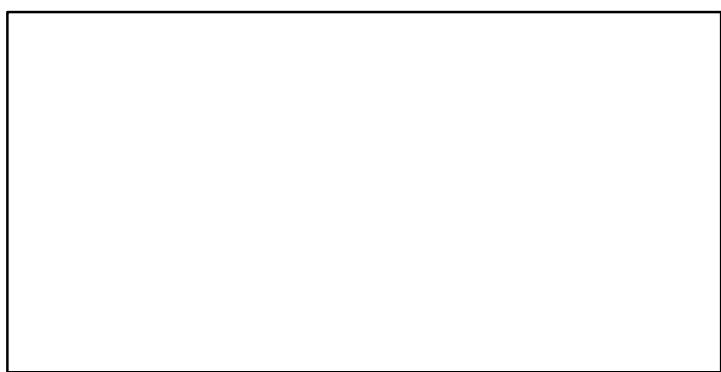
Thornback skate Portuguese Waters –East [TBSKAIxa]

TL–MT, TC*, RecC* (1997–2015–ICESIMP2018)

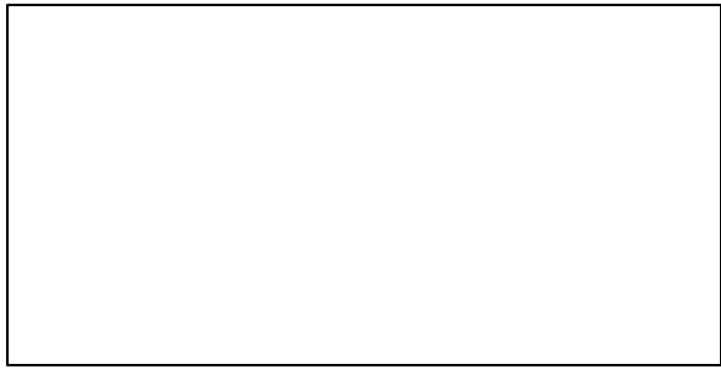
TAC*, Cpair*, Cadv*



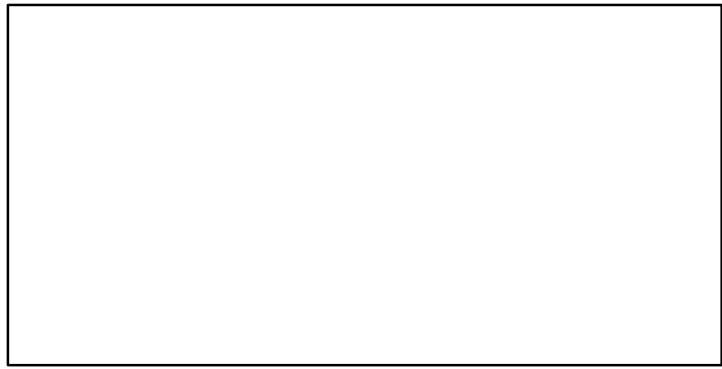
MSY*, MORAT*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

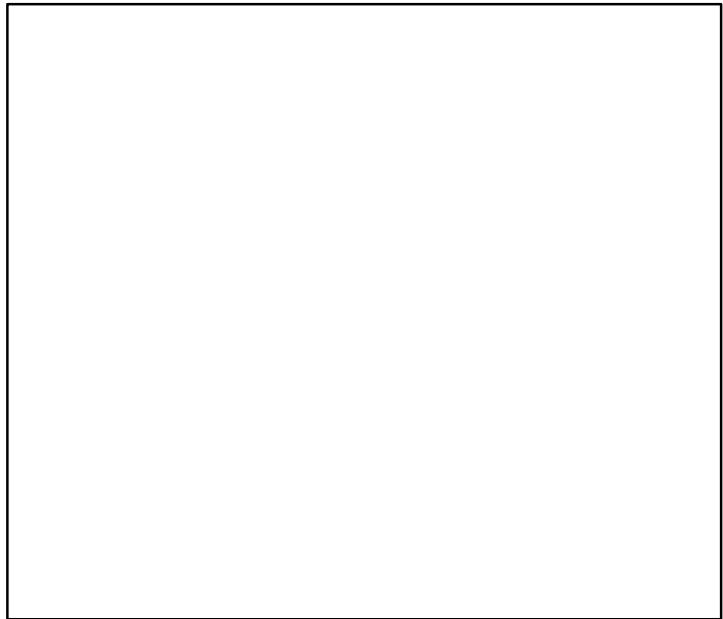
Thornback skate ICES 6 [TBSKAVI]

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

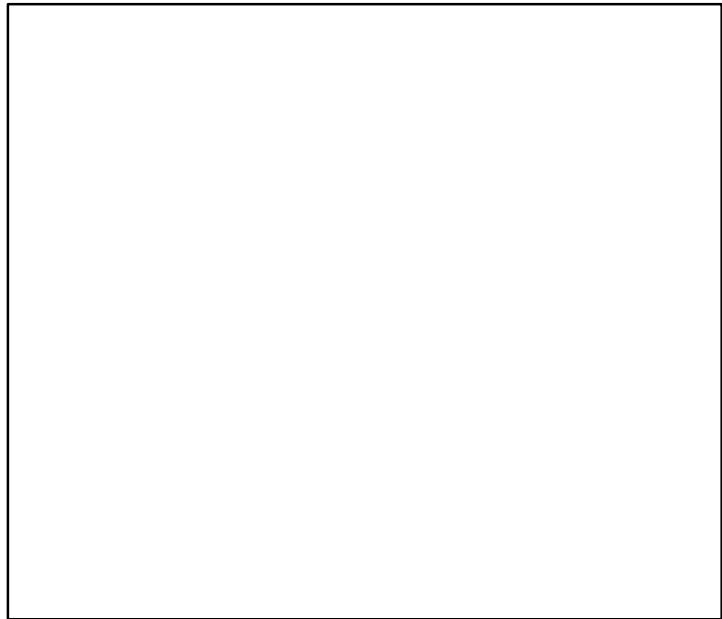
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

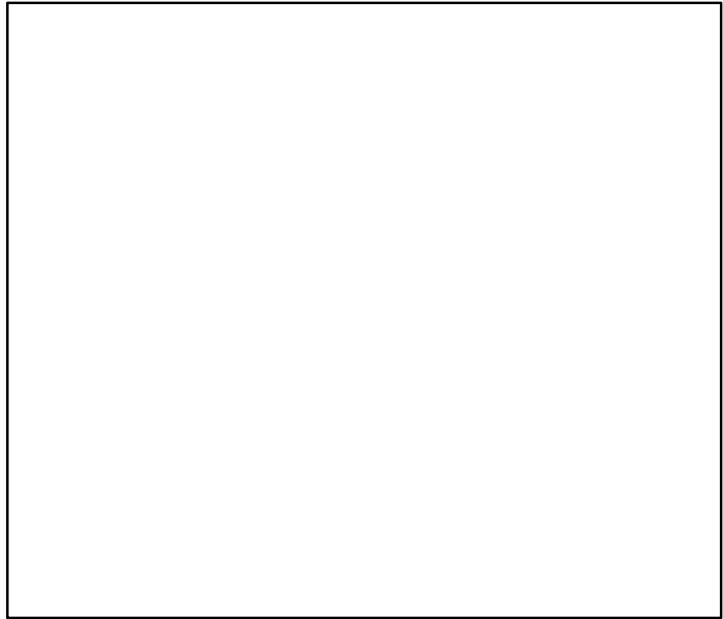
Kobe MSY*



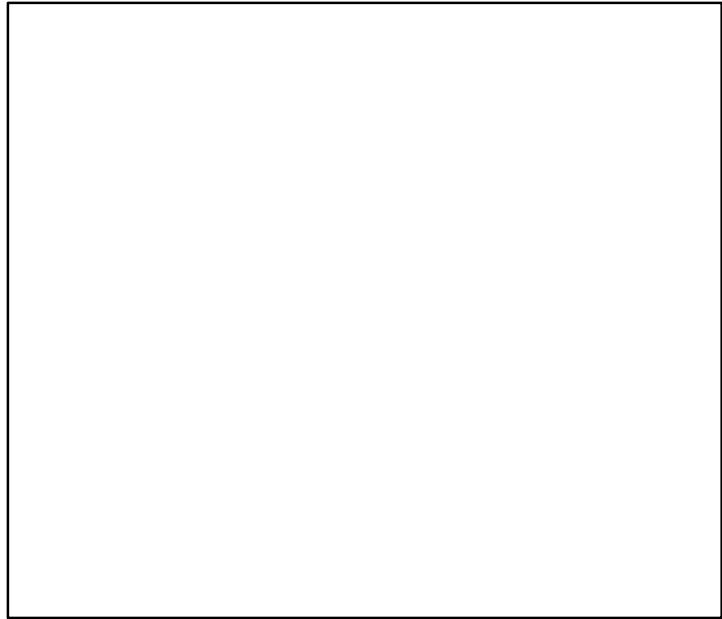
Kobe MGT*



Spawner Recruit*



Production*



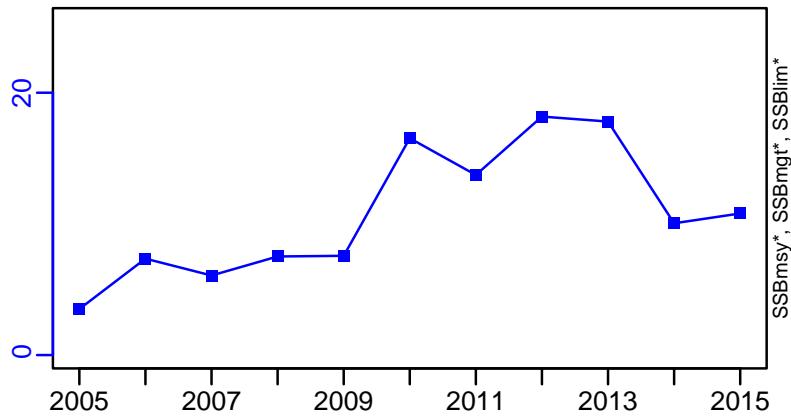
◆ Start Year ♦ End Year * No Data

Thornback skate ICES 6 [TBSKAVI]

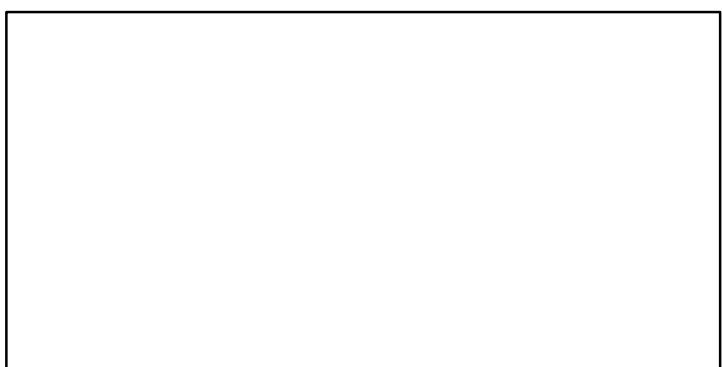
TB*



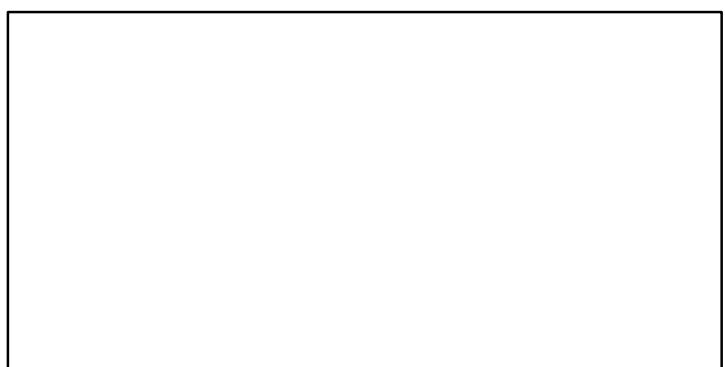
SSB-index (2005–2015–ICESIMP2018)



TN *



F*



ER*



Recruits*

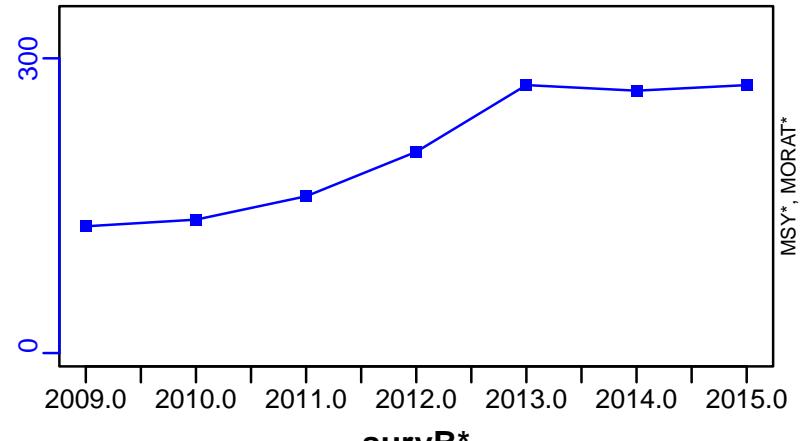


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Thornback skate ICES 6 [TBSKAVI]

TL-MT, TC*, RecC* (2005–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

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*

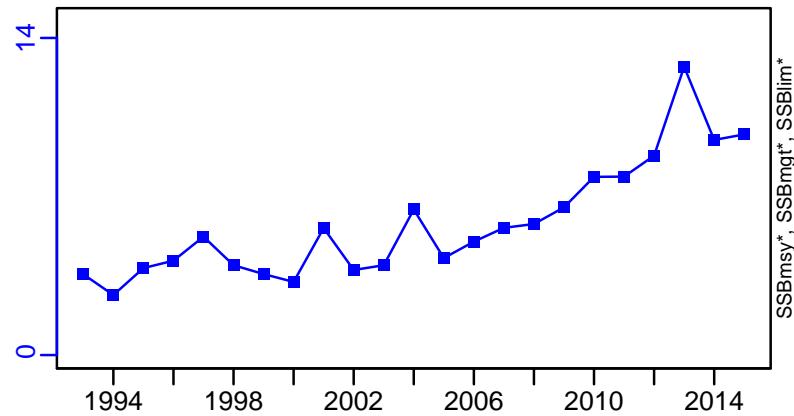
◆ Start Year ♦ End Year * No Data

Thornback skate ICES 7afg [TBSKAVIIafg]

TB*



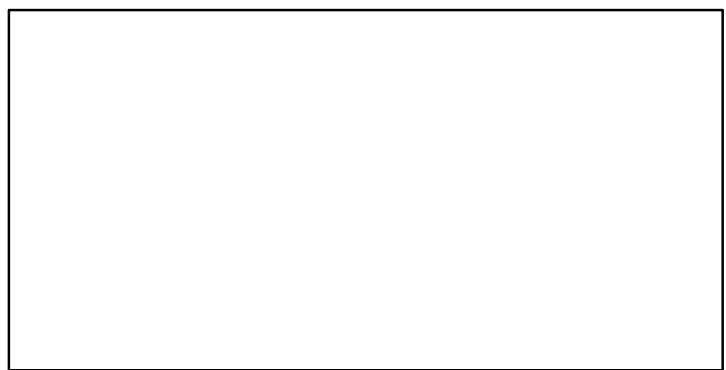
SSB-index (1993–2015–ICESIMP2018)



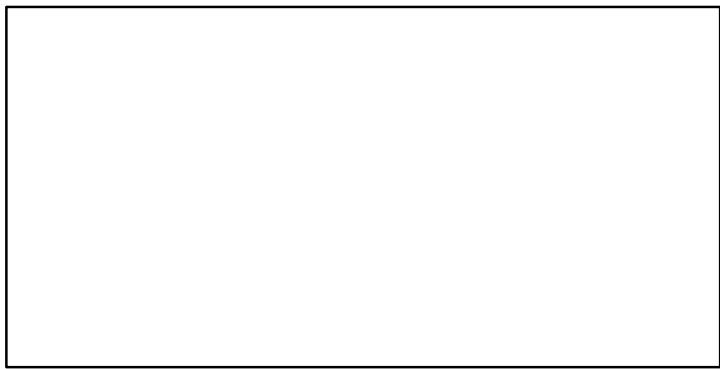
TN *



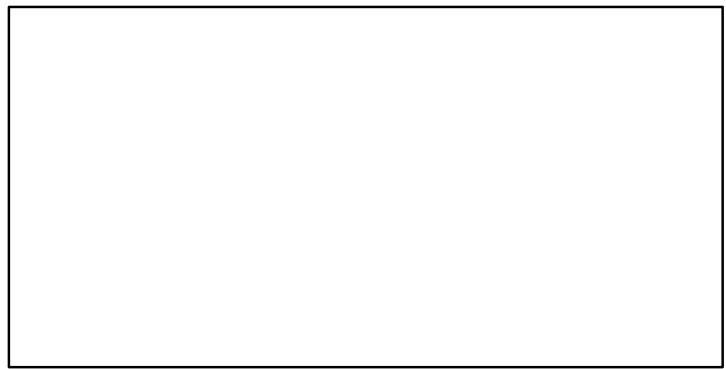
F*



ER*



Recruits*

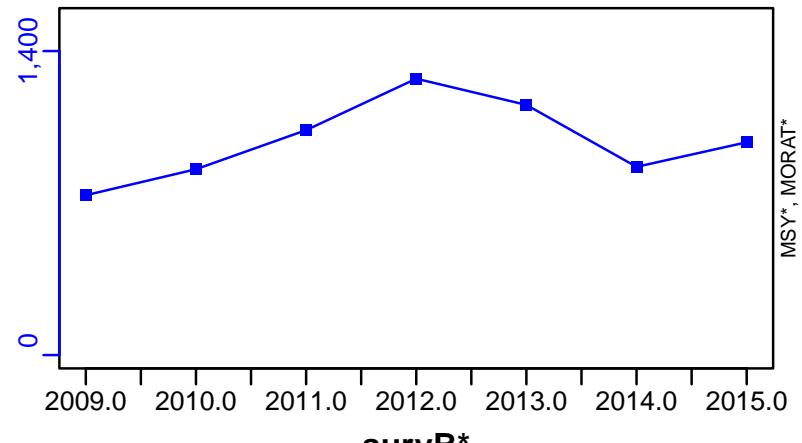


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

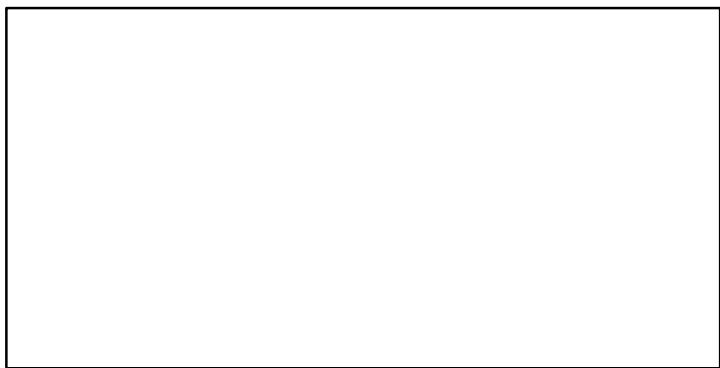
Thornback skate ICES 7afg [TBSKAVIIafg]

TL-MT, TC*, RecC* (1993–2015–ICESIMP2018)

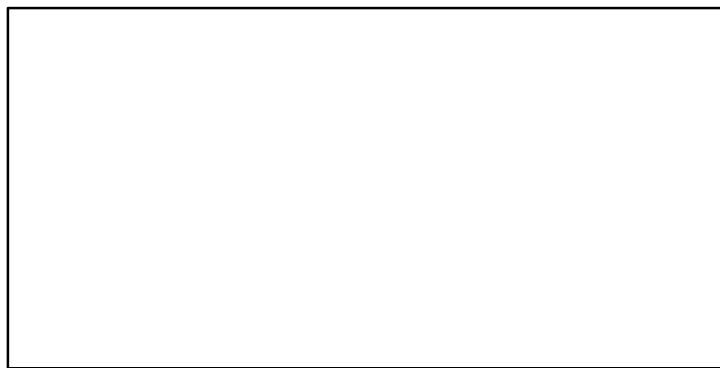
TAC*, Cpair*, Cadv*



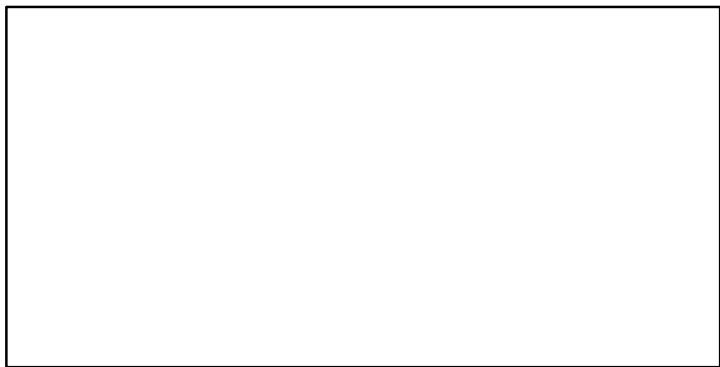
survB*



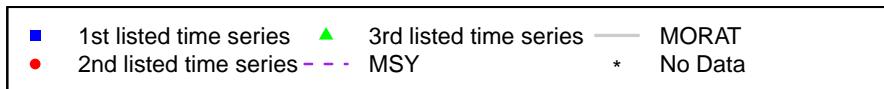
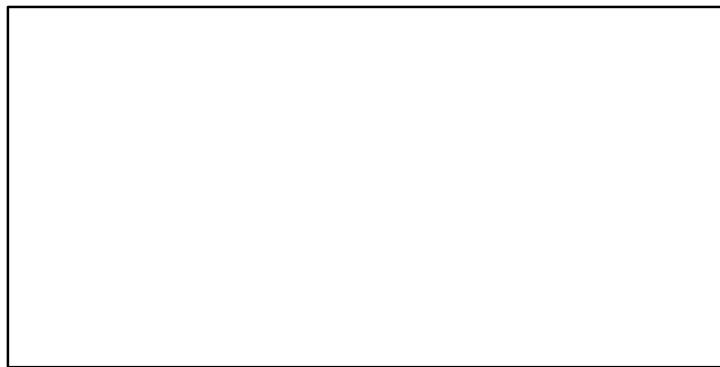
CPUE*



EFFORT*



CdivMSY*



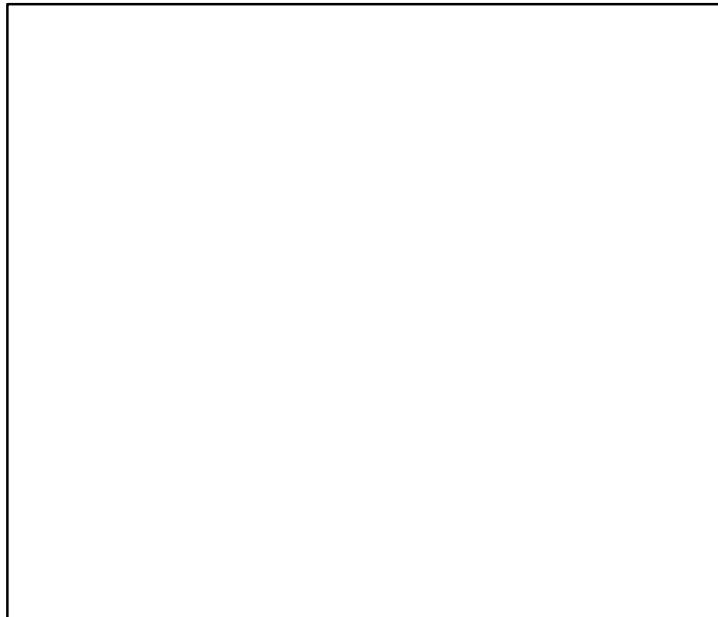
Thornback skate Western English Channel [TBSKAVIle]

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

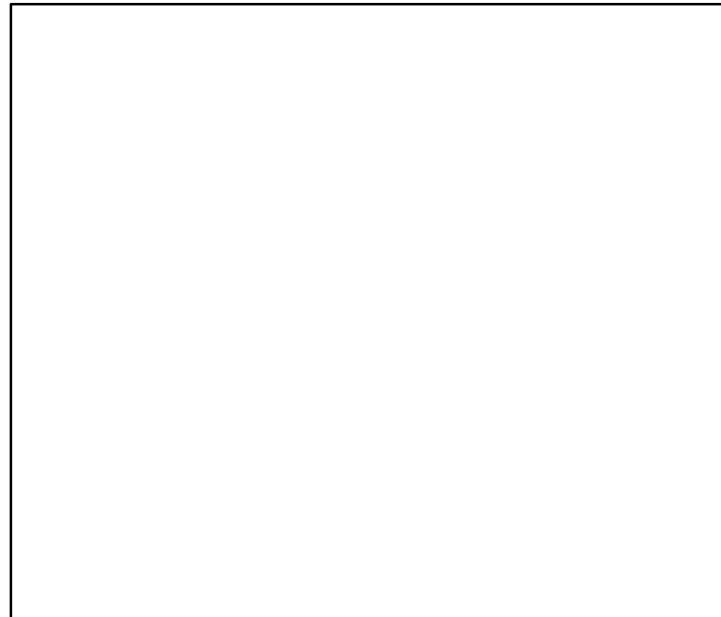
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



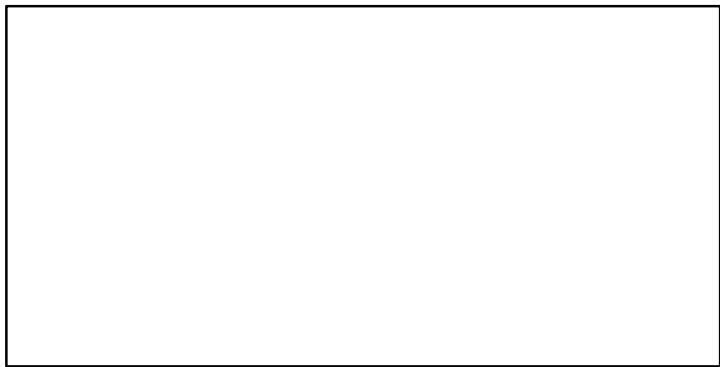
Production*



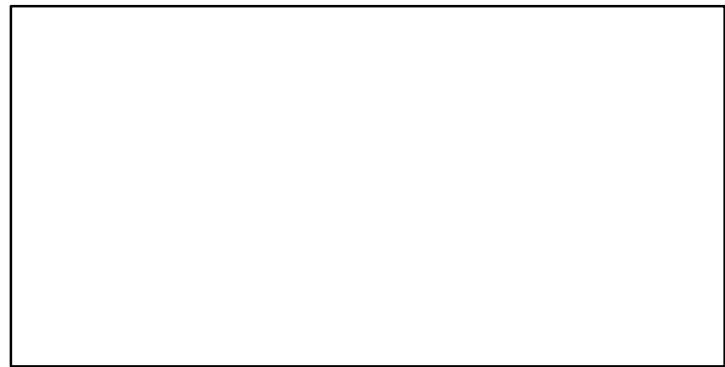
◆ Start Year ♦ End Year * No Data

Thornback skate Western English Channel [TBSKAVIle]

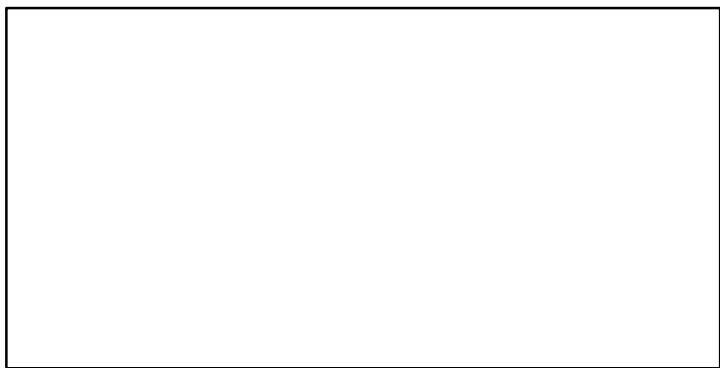
TB*



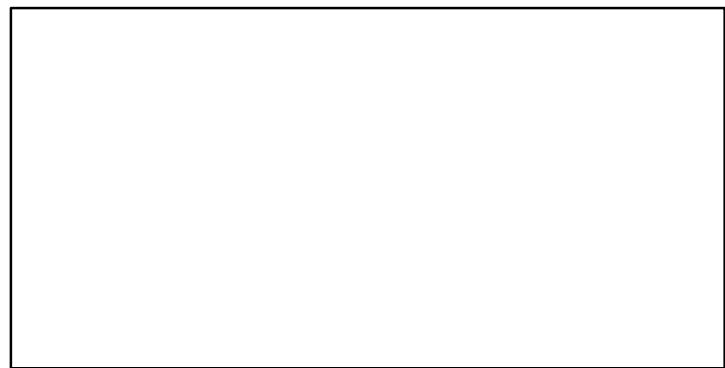
SSB*



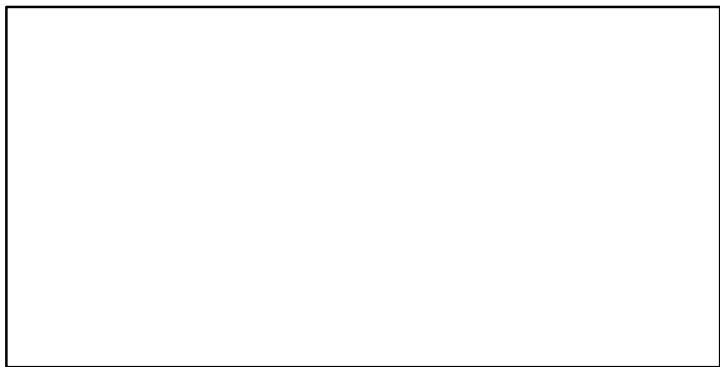
TN *



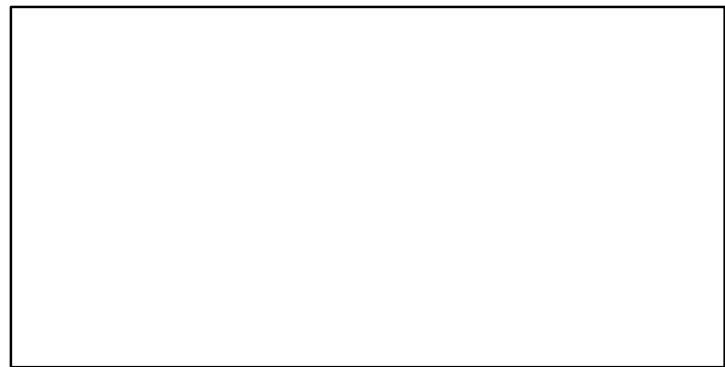
F*



ER*



Recruits*

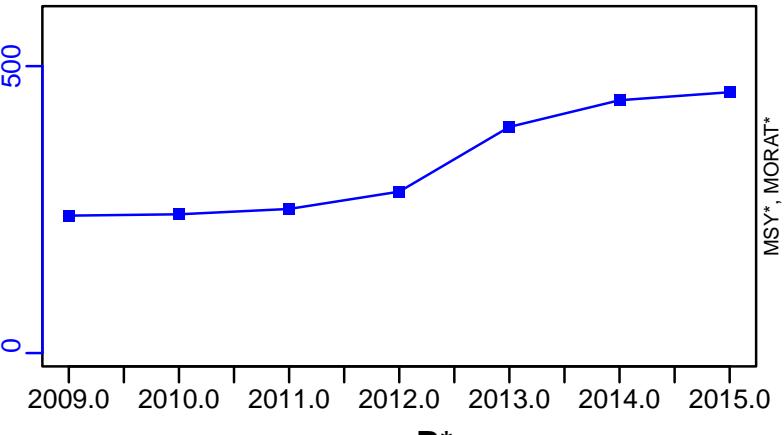


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Thornback skate Western English Channel [TBSKAVIle]

TL-MT, TC*, RecC* (2009–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*

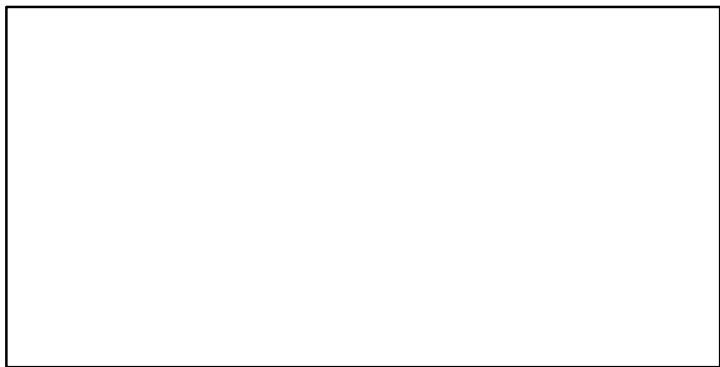
MSY*, MORAT*



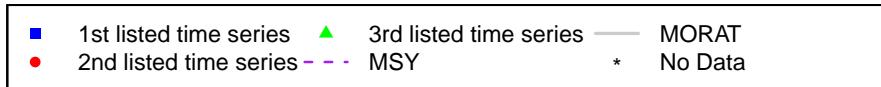
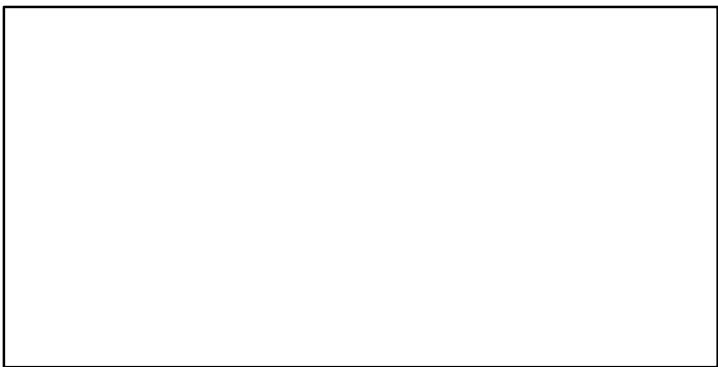
CPUE*



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	-	-	-		

Thornback skate Bay of Biscay [TBSKAVIII]

Kobe MSY*

Kobe MGT*

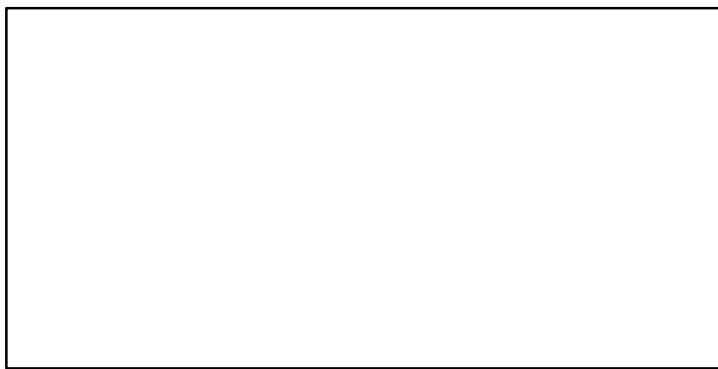
Spawner Recruit*

Production*

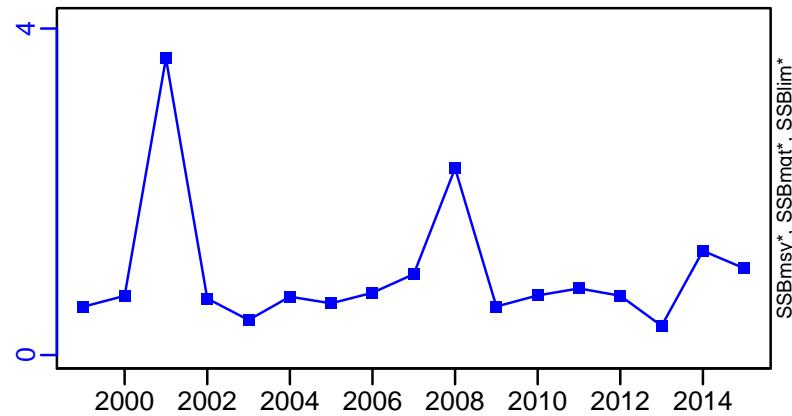
◆ Start Year ♦ End Year * No Data

Thornback skate Bay of Biscay [TBSKAVIII]

TB*



SSB-index (1999–2015–ICESIMP2018)



SSB_{mgt*}, SSB_{lim*}

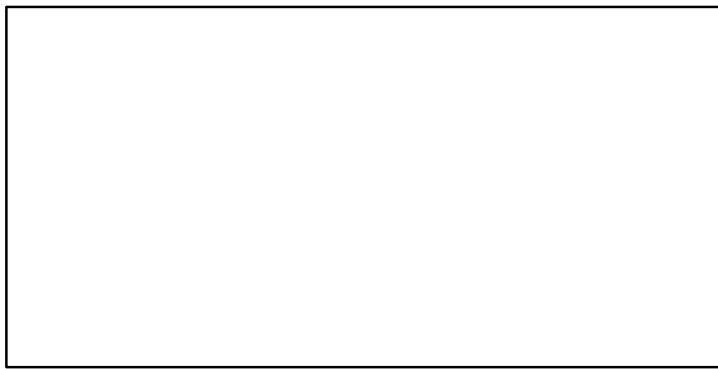
TN *



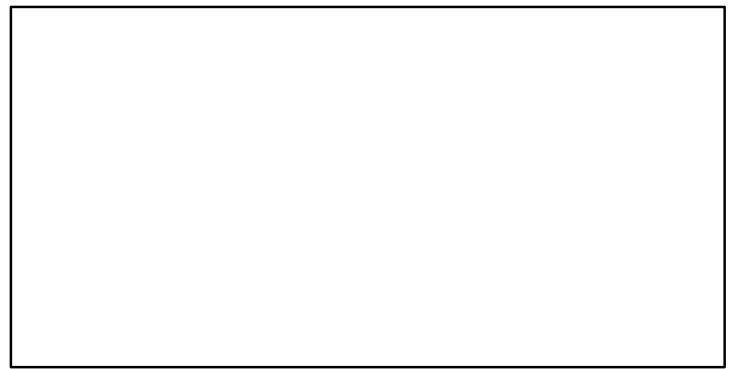
F*



ER*



Recruits*

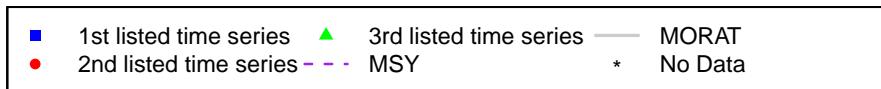
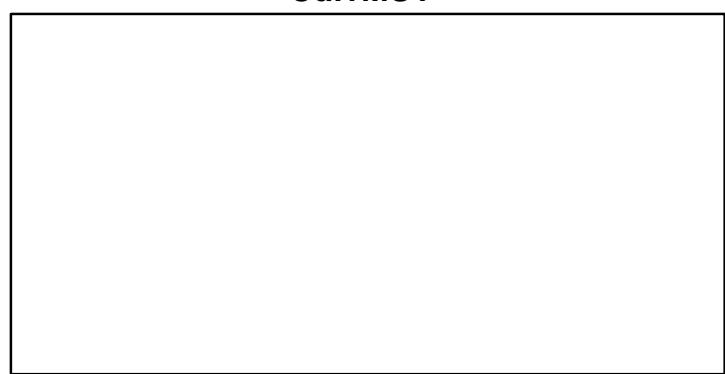
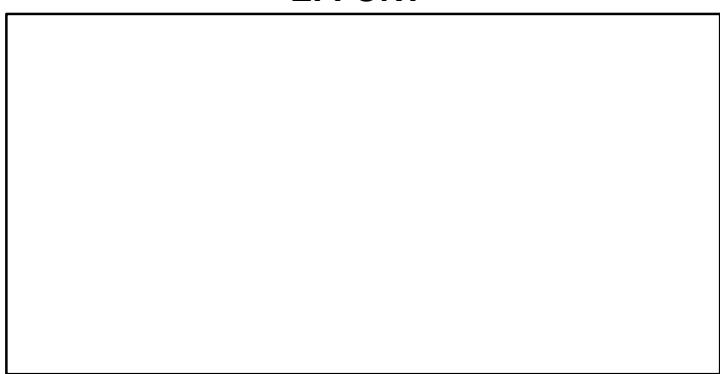
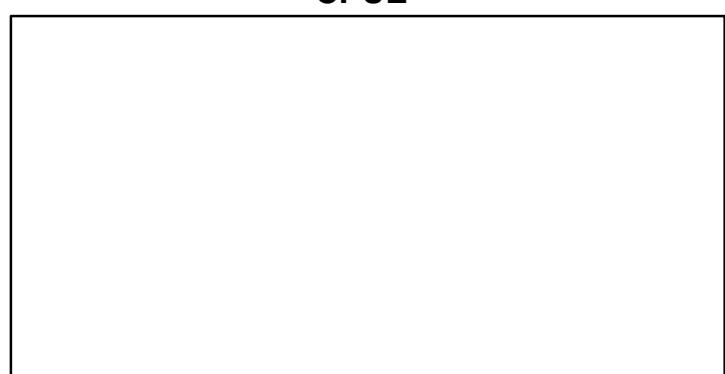
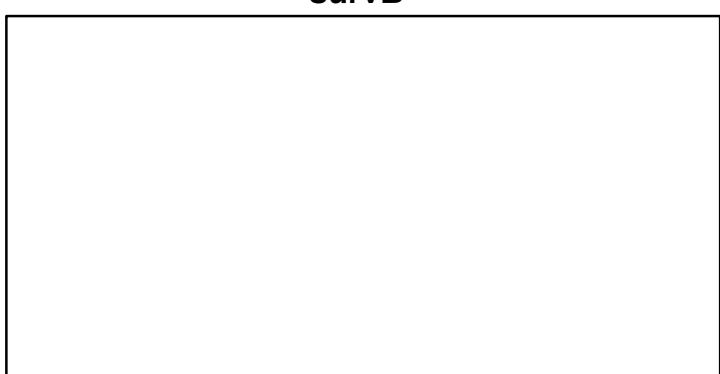
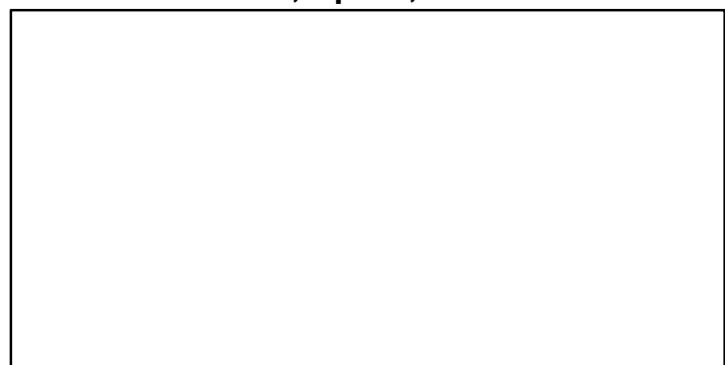
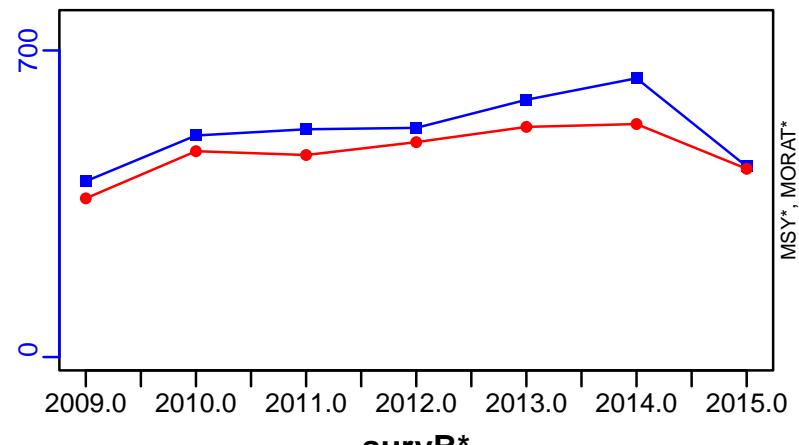


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Thornback skate Bay of Biscay [TBSKAVIII]

TC-MT, TL-MT, RecC* (1999–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



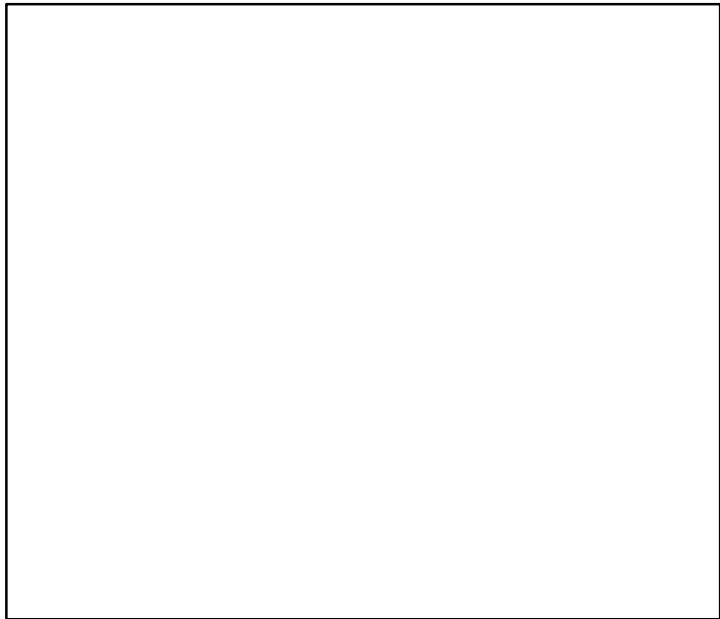
Tope shark Northeast Atlantic [TPSHARNEATL]

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

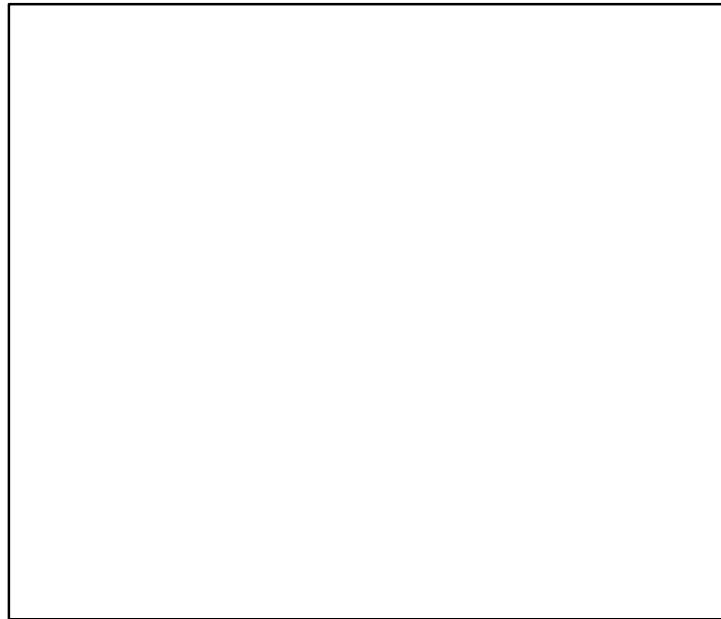
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

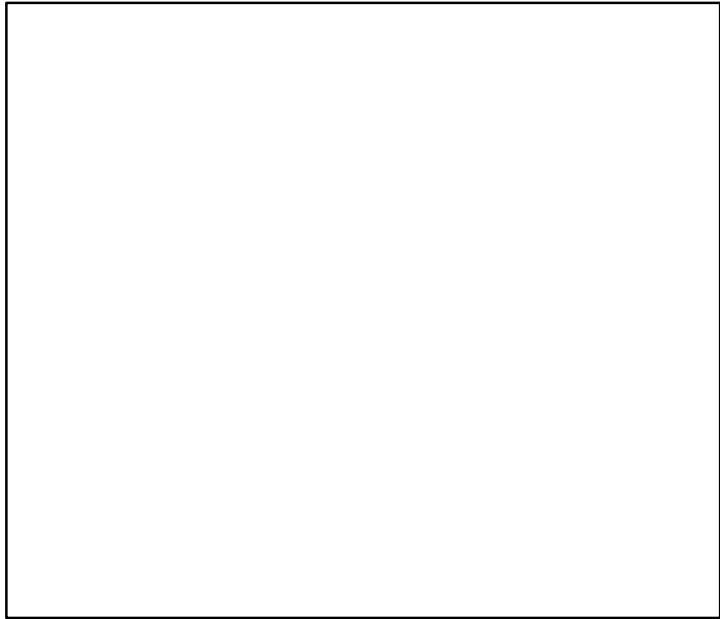
Kobe MSY*



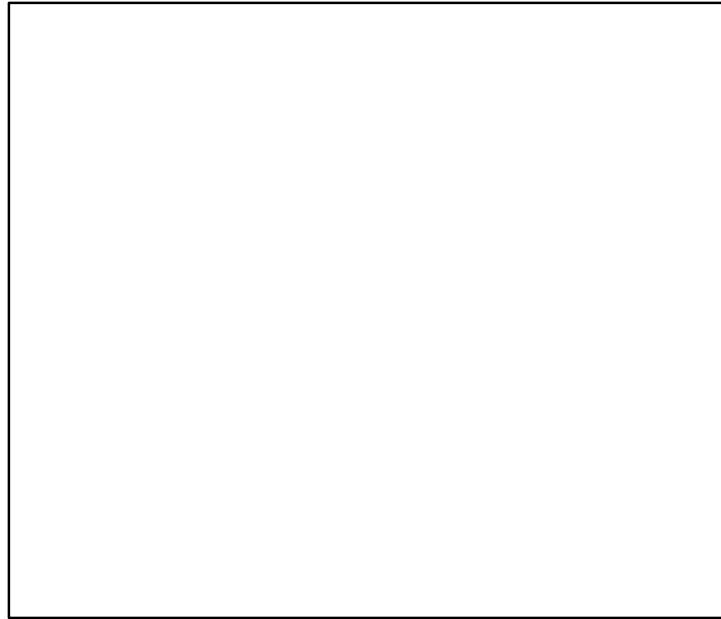
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Tope shark Northeast Atlantic [TPSHARNEATL]

TB*



SSB*



TN *



F*



ER*



Recruits*

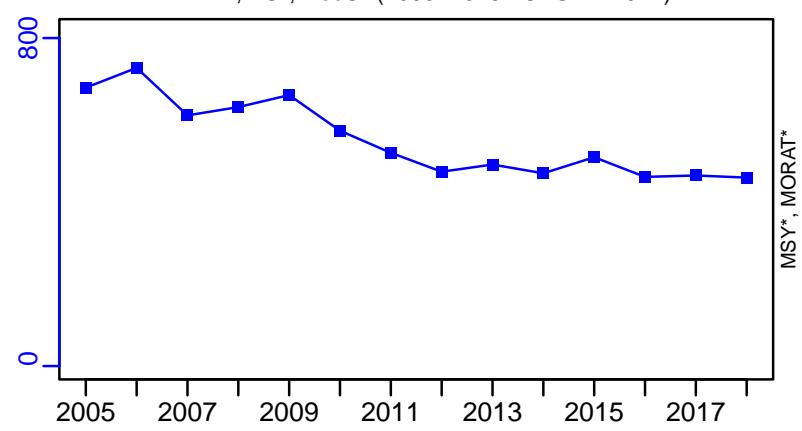


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

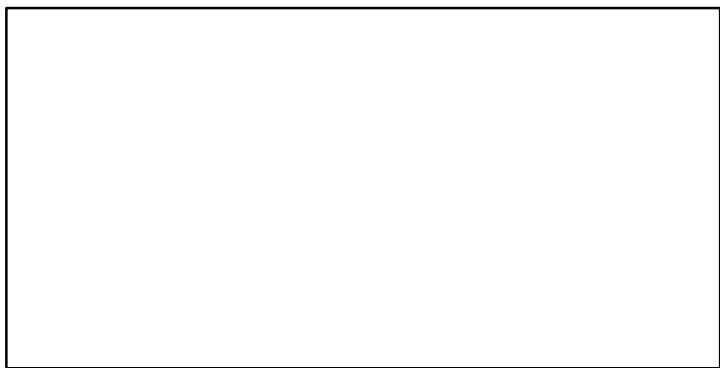
Tope shark Northeast Atlantic [TPSHARNEATL]

TL-MT, TC*, RecC* (2005–2018–ICESIMP2021)

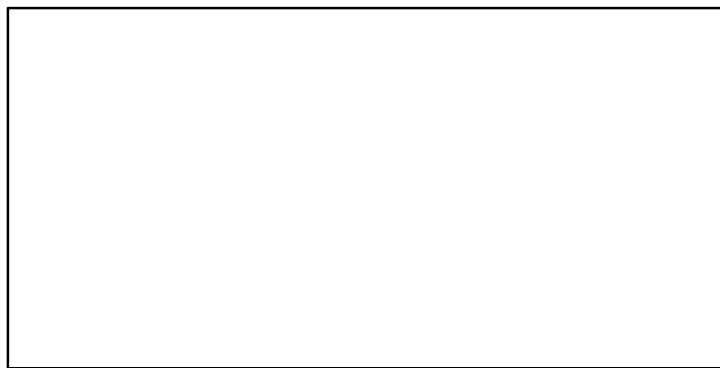
TAC*, Cpair*, Cadv*



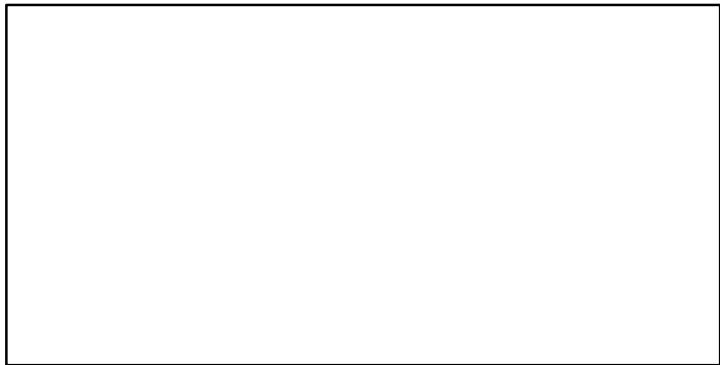
survB*



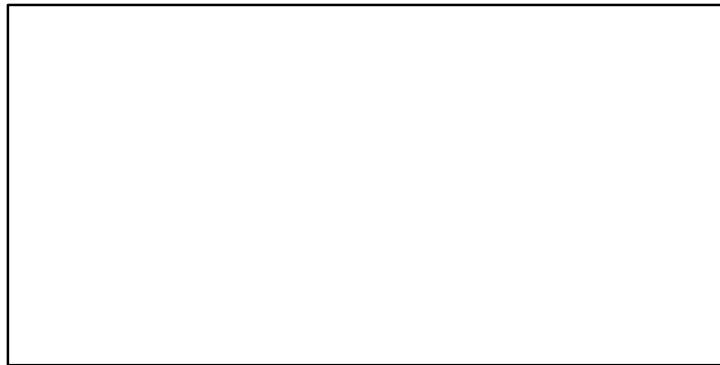
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGBFAS-TUR2232-1970-2020-ICESIMP2021-2
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2017, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	572		
TL	TL-MT	2020	197		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

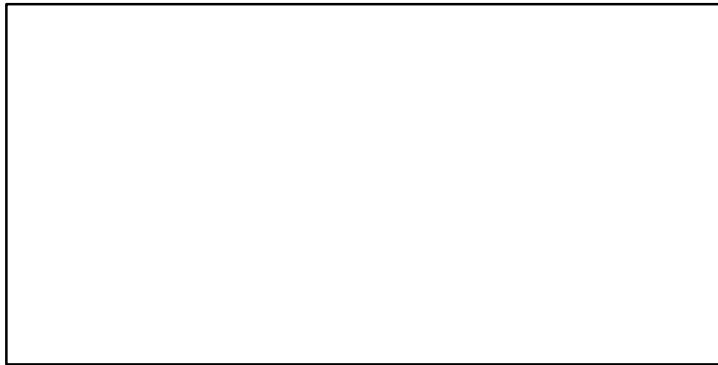
Kobe MGT*

Spawner Recruit*

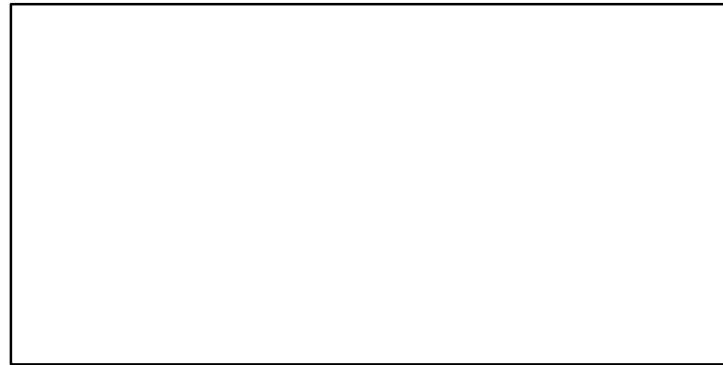
Production*

◆ Start Year ♦ End Year * No Data

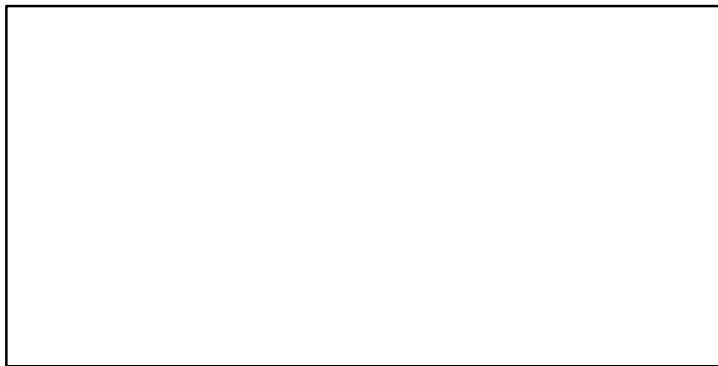
TB*



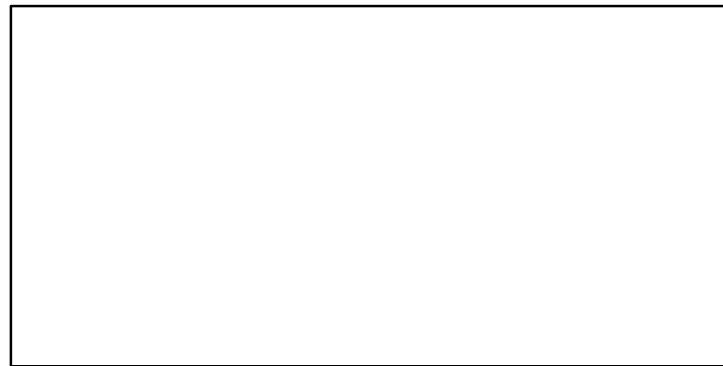
SSB*



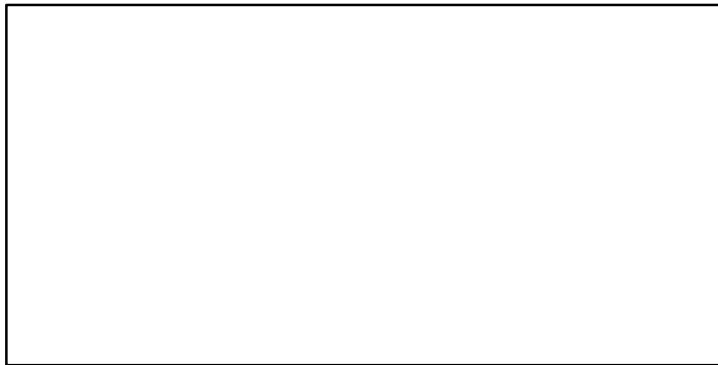
TN *



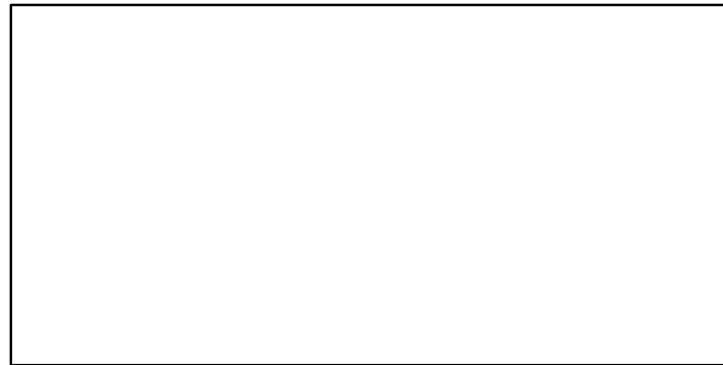
F*



ER*



Recruits*

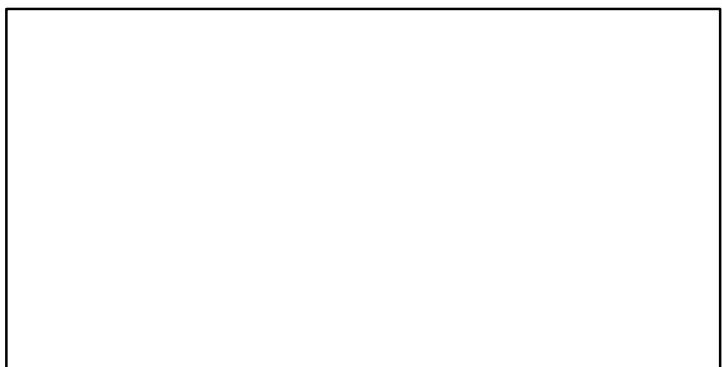
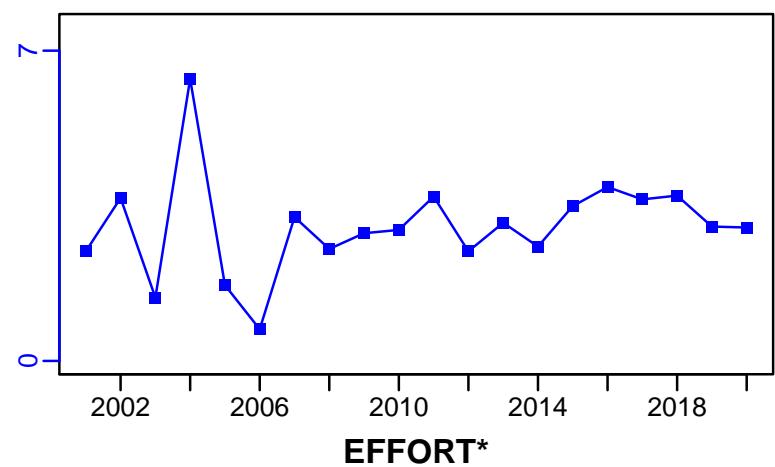
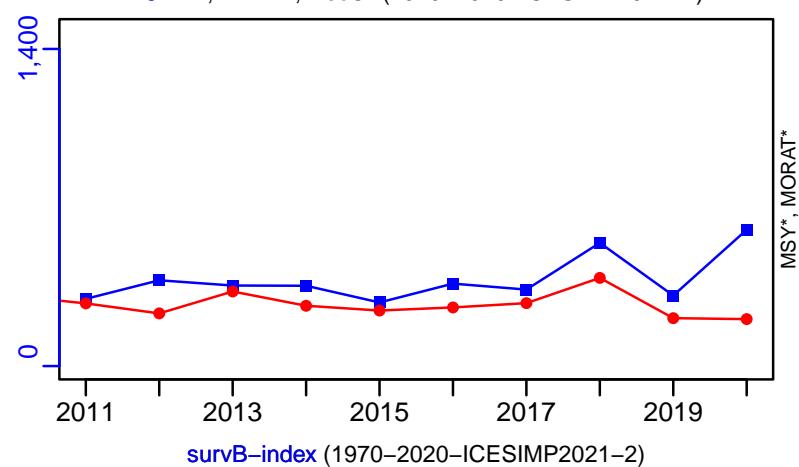


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Turbot Baltic Areas 22–32 [TUR2232]

TC-MT, TL-MT, RecC* (1970–2020–ICESIMP2021–2)

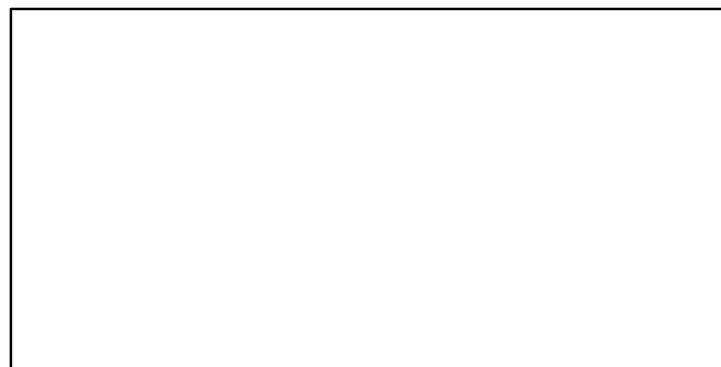
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Turbot Kattegat and Skagerrak [TURIIIa]

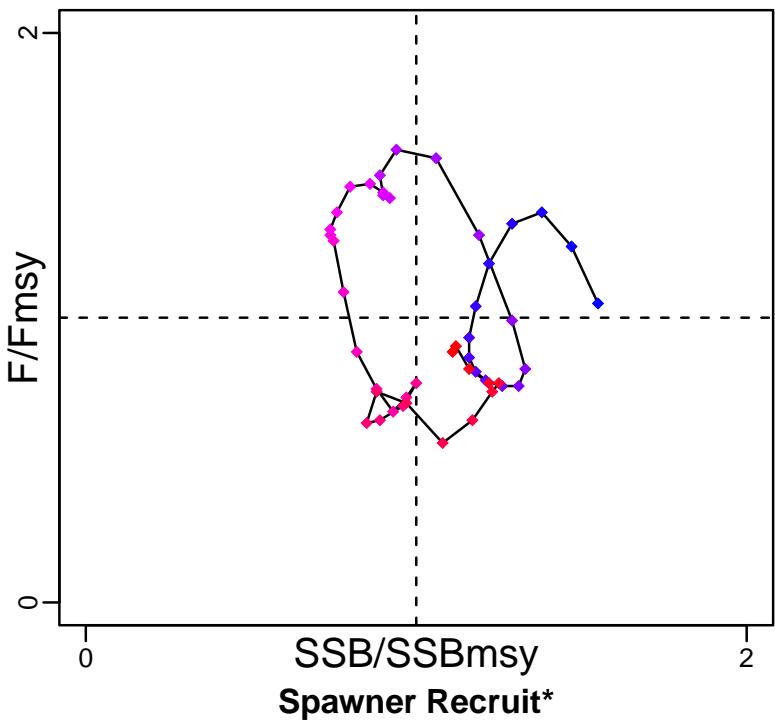
Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIIIa-1975-2021-ICESIMP2021-2
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2019, 2019, 2016, 2015, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

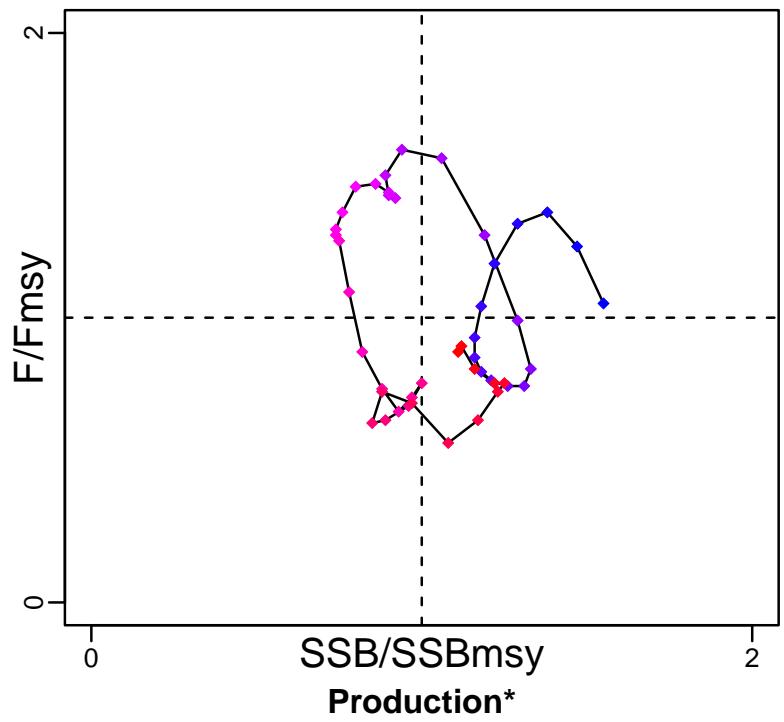
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	-
SSB	SSB-index	2015	0.652	Both	-	
TN	-	-	-	-	-	-
R	-	-	-	-	-	-
F	-	-	-	-	-	-
ER	-	-	-	-	-	-
TC	TC-MT	2021	215			
TL	TL-MT	2021	202			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	1.11			
F/Fmsy	FdivFmsy-dimensionless	2021	0.88			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Turbot Kattegat and Skagerrak [TURIIla]

Kobe MSYpref (1975–2021–ICESIMP2021–2)



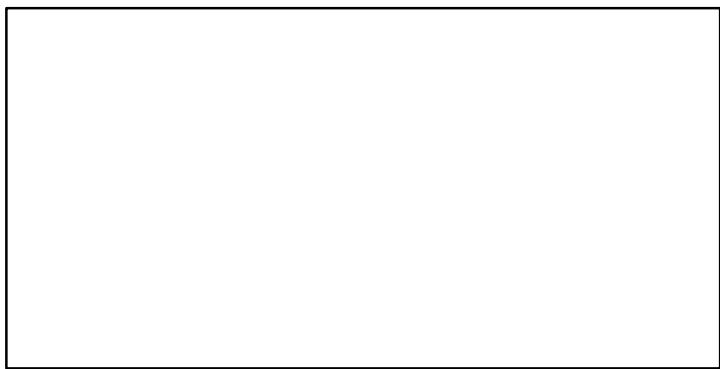
Kobe MGTpref (1975–2021–ICESIMP2021–2)



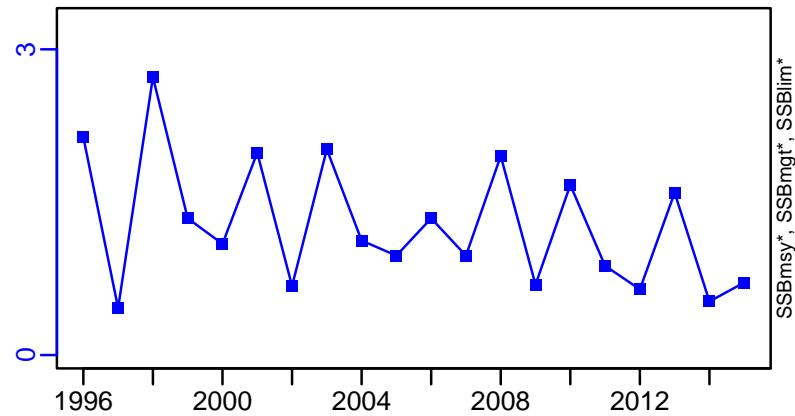
◆ Start Year ◆ End Year * No Data

Turbot Kattegat and Skagerrak [TURIIla]

TB*



SSB-index (1964–2015–ICESIMP2018)



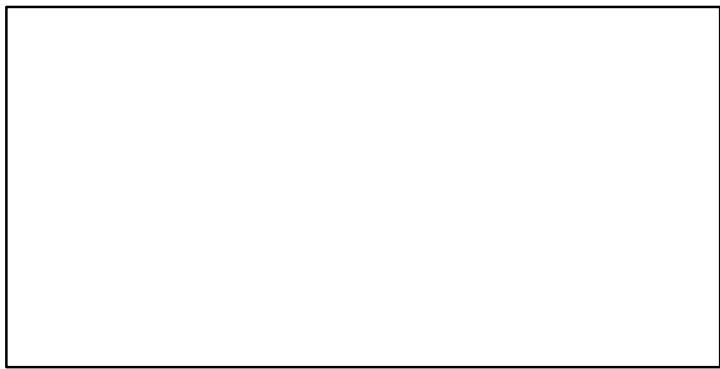
TN *



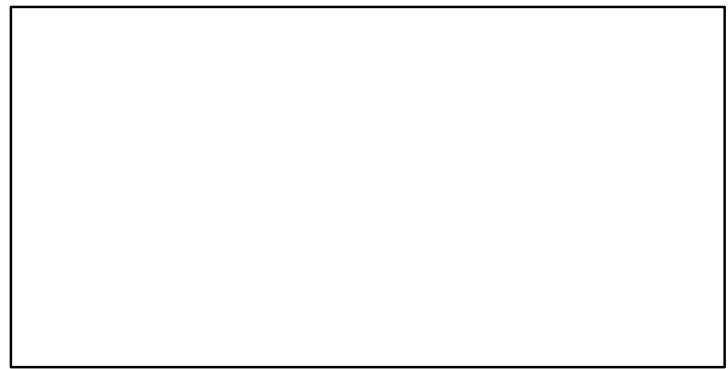
F*



ER*



Recruits*

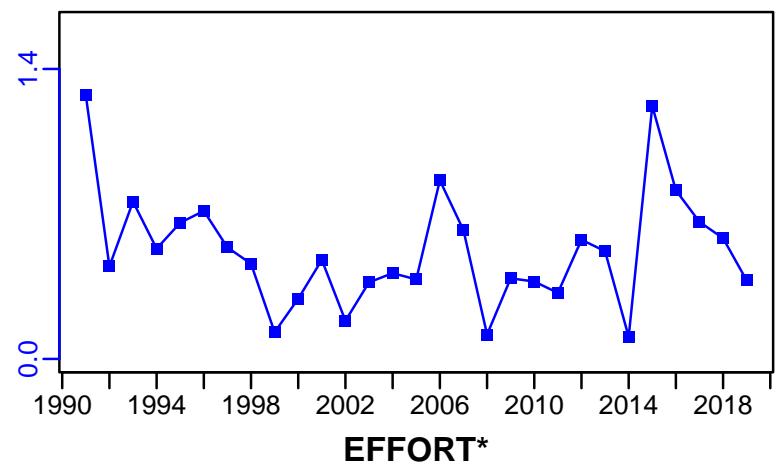
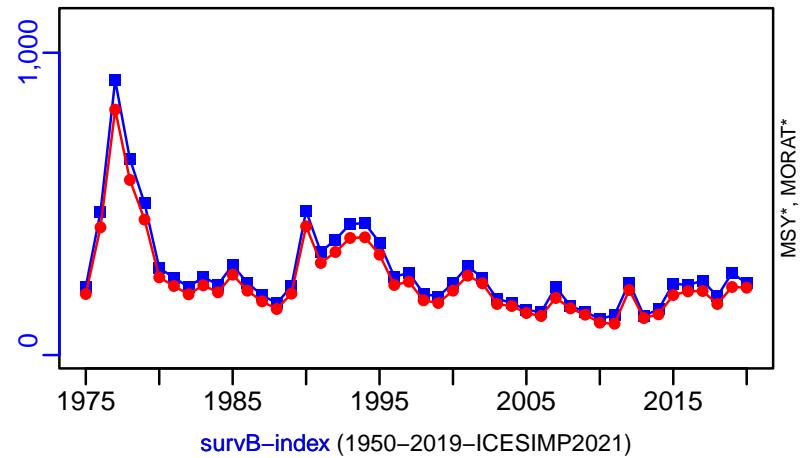


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

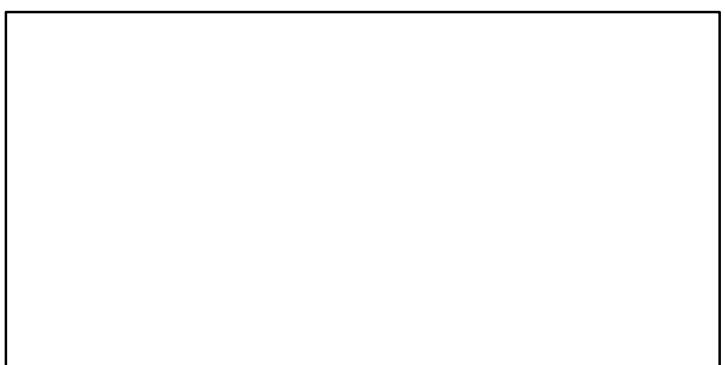
Turbot Kattegat and Skagerrak [TURIIla]

TC-MT, TL-MT, RecC* (1975–2021–ICESIMP2021–2)

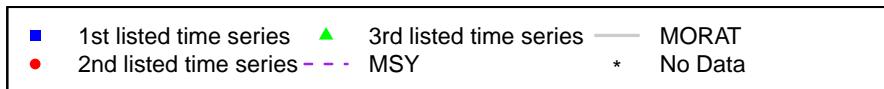
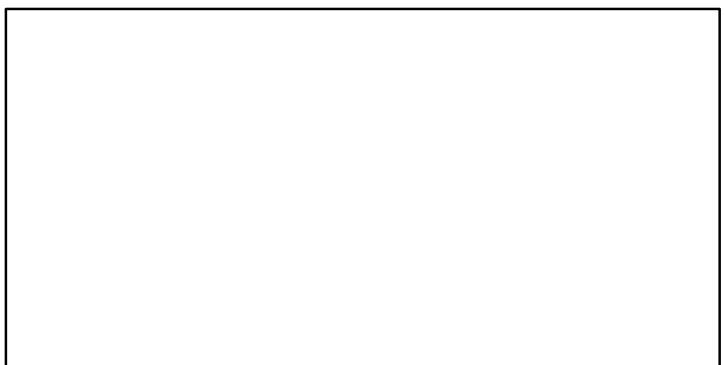
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



Turbot North Sea [TURIV]

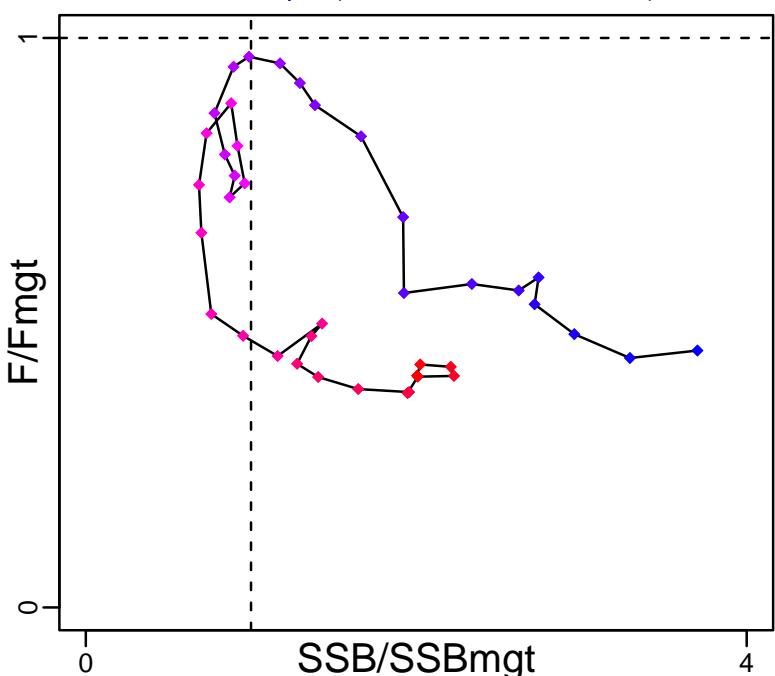
Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIV-1981-2021-ICESIMP2021-2
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2013, 2014, 2015, 2016, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.36
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	4160
Fmgt	Fmgt-1/yr	2021	0.86
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2970
Flim	Flim-1/yr	2020	0.61
ERlim	-	-	-

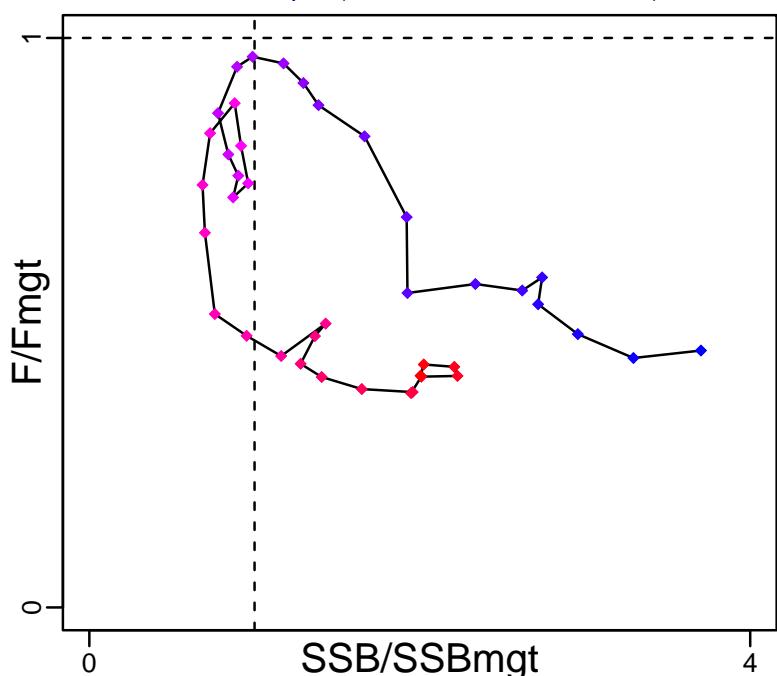
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	13,630	-	-
SSB	SSB-MT	2021	8880	-	-
TN	-	-	-	-	-
R	R-E00	2021	4,570,000	-	1
F	F-1/yr	2021	0.35	-	-
ER	ER-calc-ratio	2019	0.266	-	-
TC	TC-MT	2021	3300		
TL	TL-MT	2021	3100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	1.02		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.135		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.407		
ER/ERmgt	-	-	-		

Turbot North Sea [TURIV]

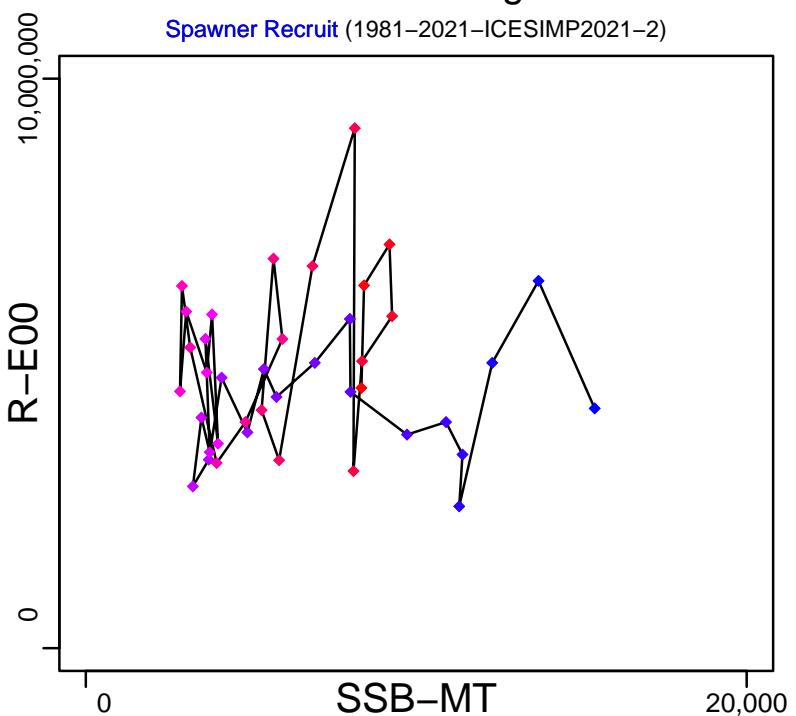
Kobe MSYpref (1981–2021–ICESIMP2021–2)



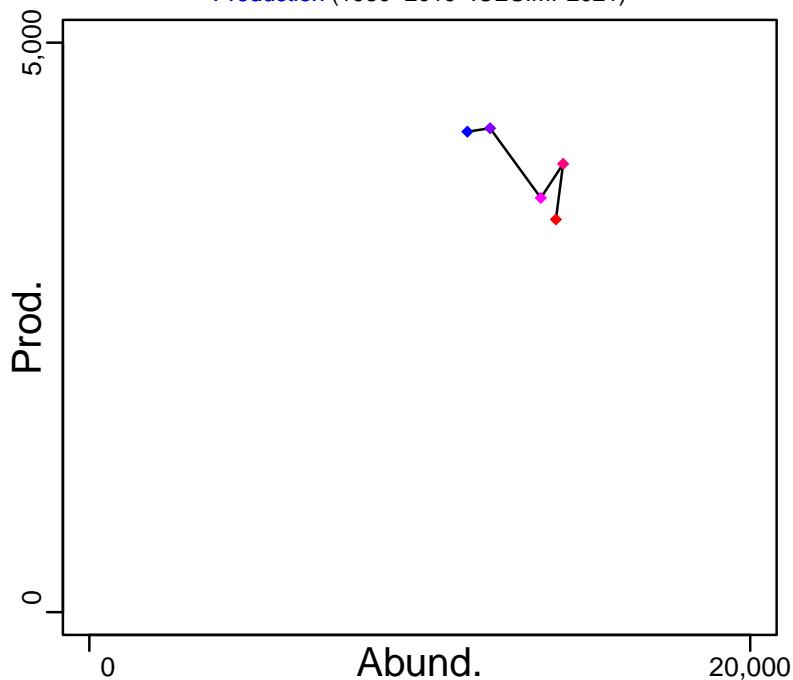
Kobe MGTpref (1981–2021–ICESIMP2021–2)



Spawner Recruit (1981–2021–ICESIMP2021–2)



Production (1980–2019–ICESIMP2021)

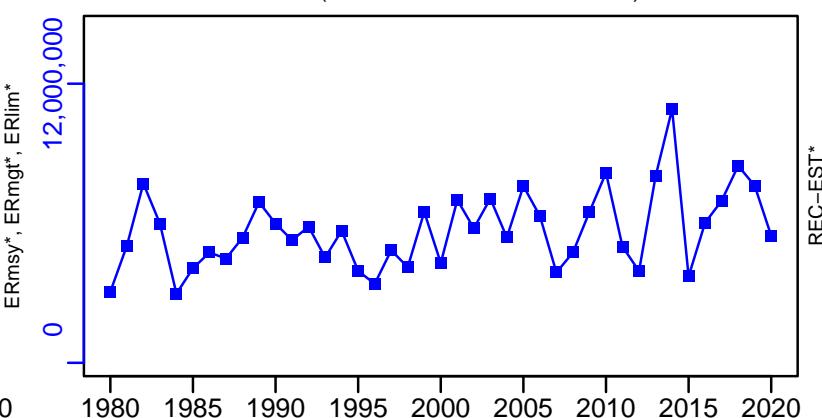
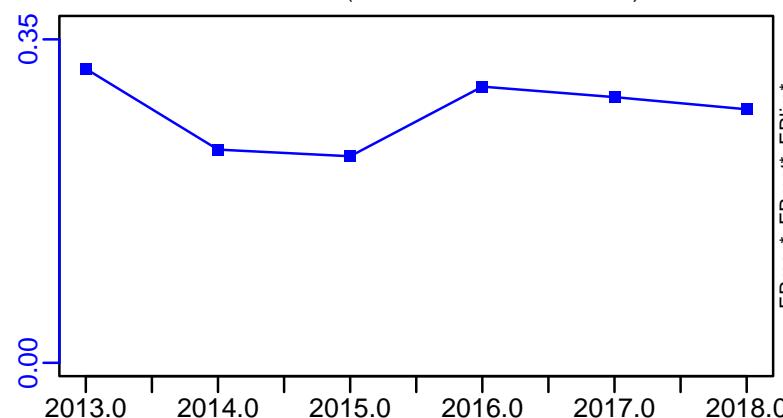
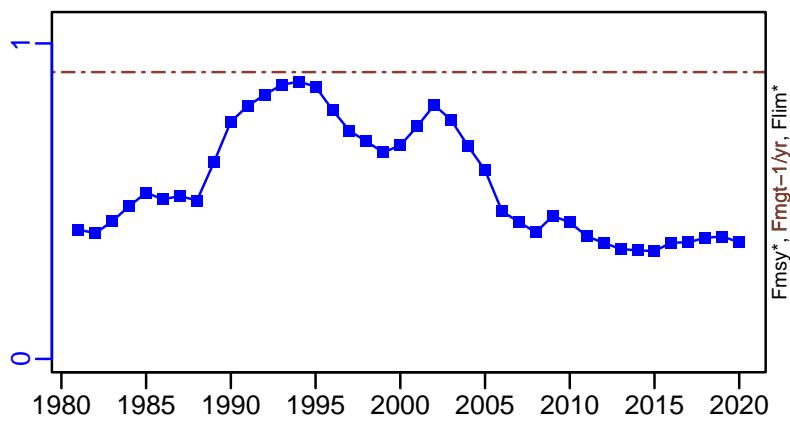
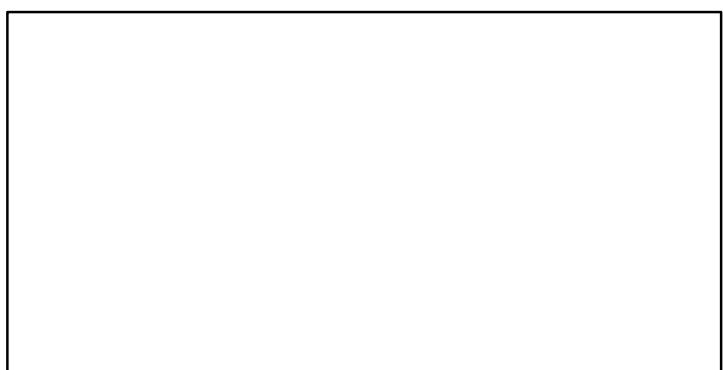
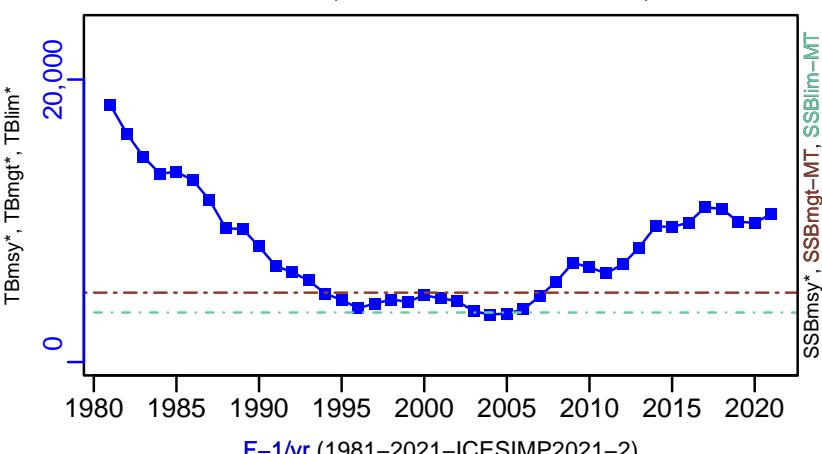
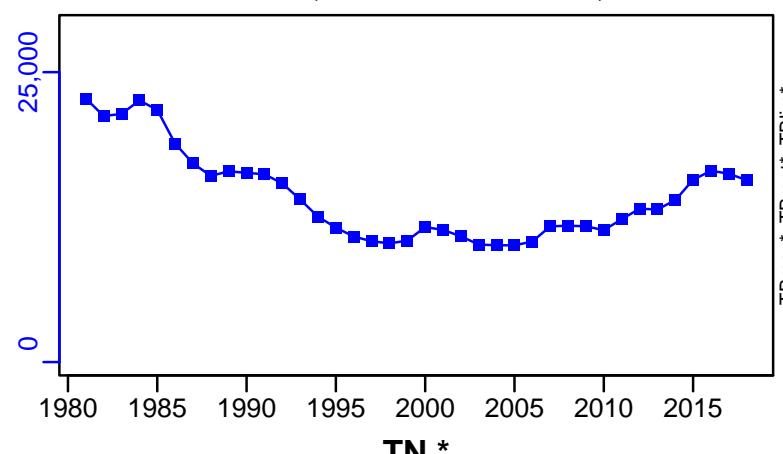


◆ Start Year ◆ End Year * No Data

Turbot North Sea [TURIV]

TB-MT (1980–2019–ICESIMP2021)

SSB-MT (1981–2021–ICESIMP2021–2)

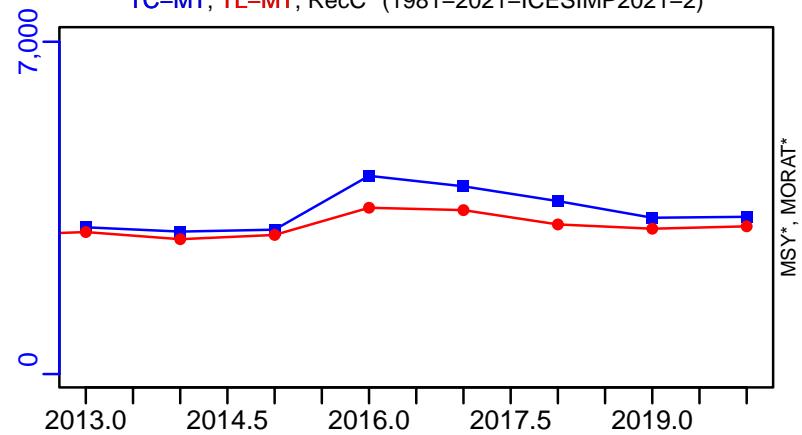


■ Listed time series	— Target BRP	— Rec-Est
- MSY-based BRP	··· Lim BRP	* No Data

Turbot North Sea [TURIV]

TC-MT, TL-MT, RecC* (1981–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



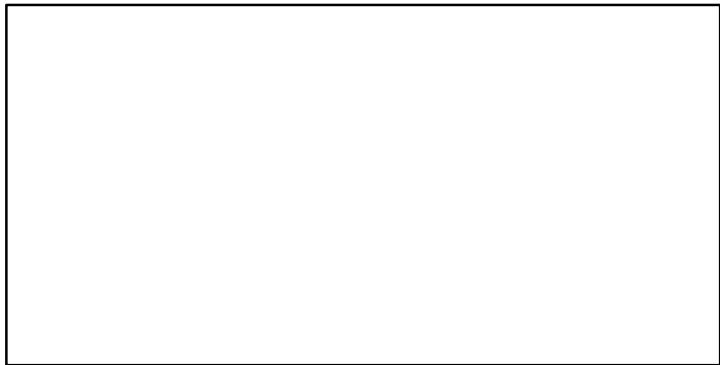
survB*



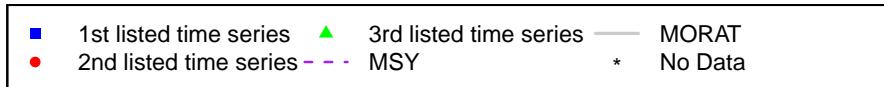
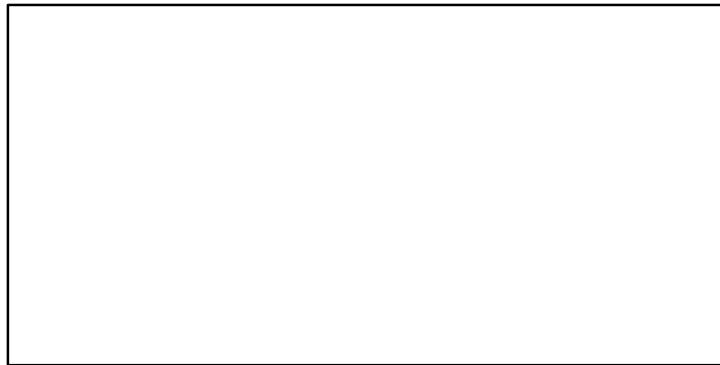
CPUE*



EFFORT*



CdivMSY*



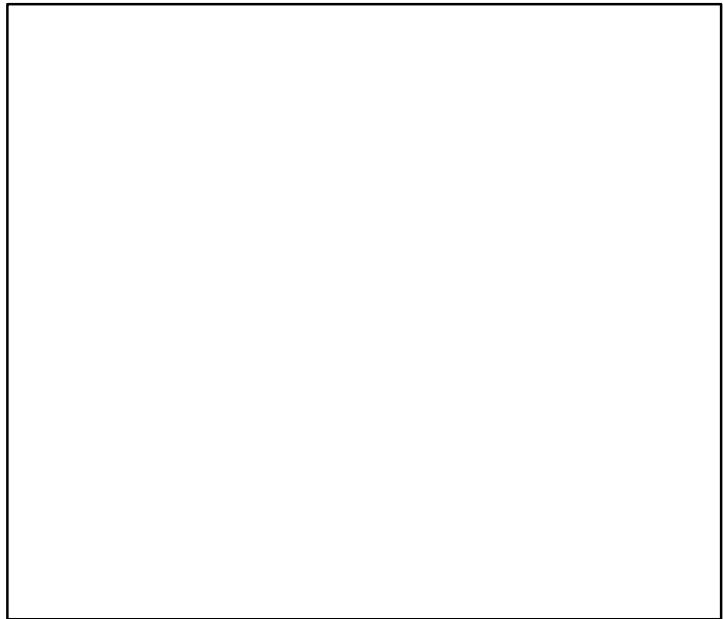
Undulate ray ICES 7de [URAYVIIde]

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

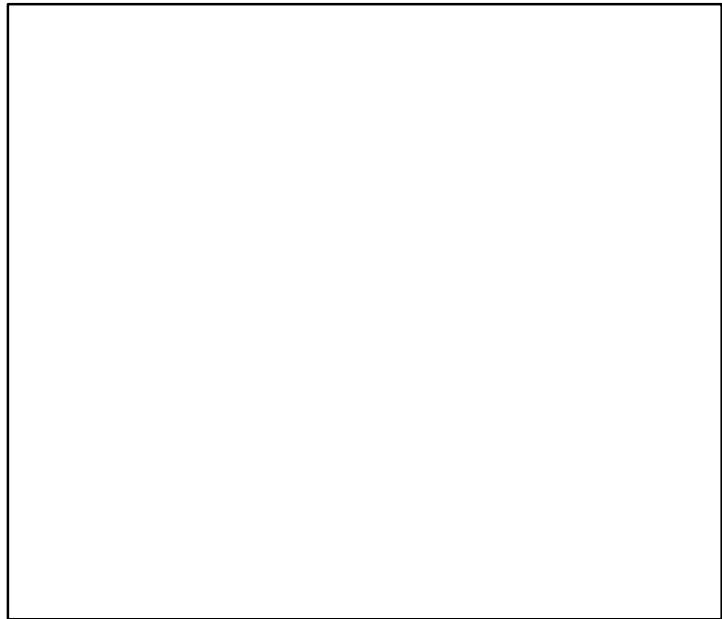
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

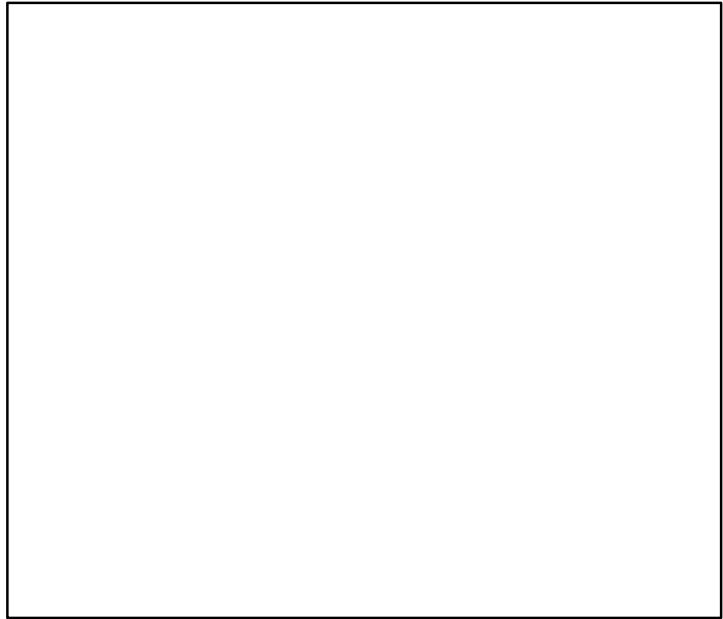
Kobe MSY*



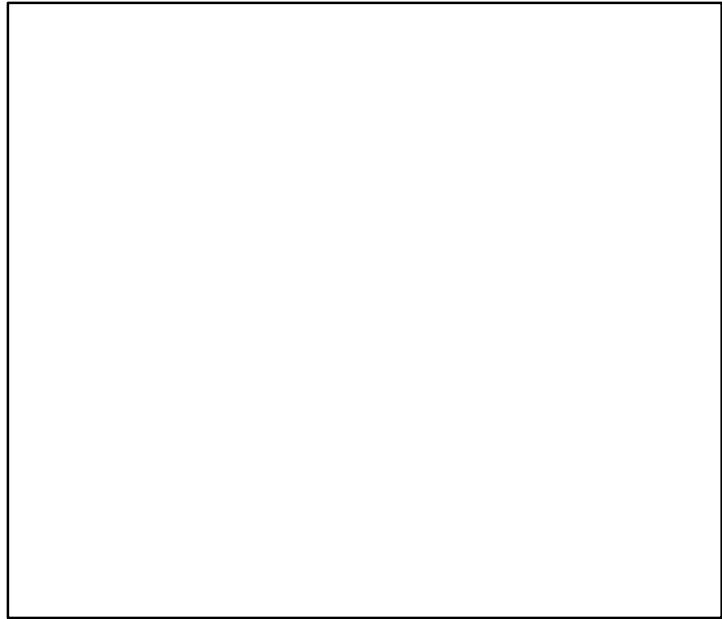
Kobe MGT*



Spawner Recruit*



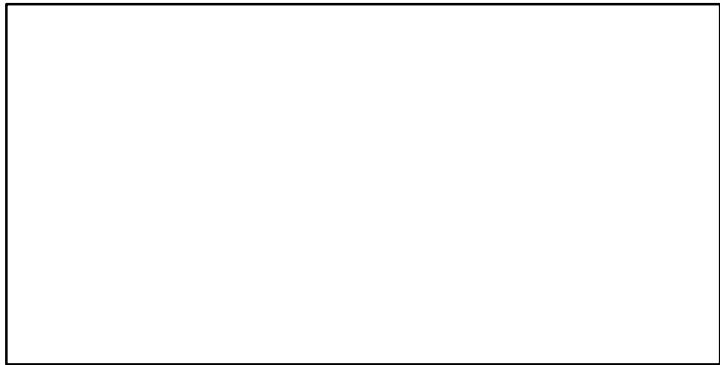
Production*



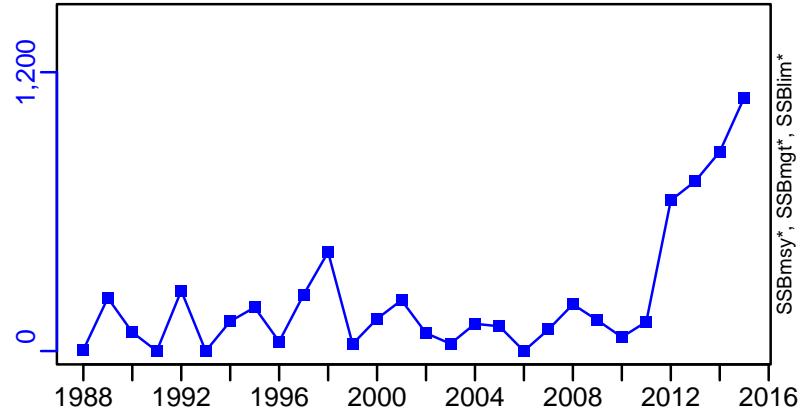
◆ Start Year ♦ End Year * No Data

Undulate ray ICES 7de [URAYVIIde]

TB*



SSB-index (1988–2015–ICESIMP2018)



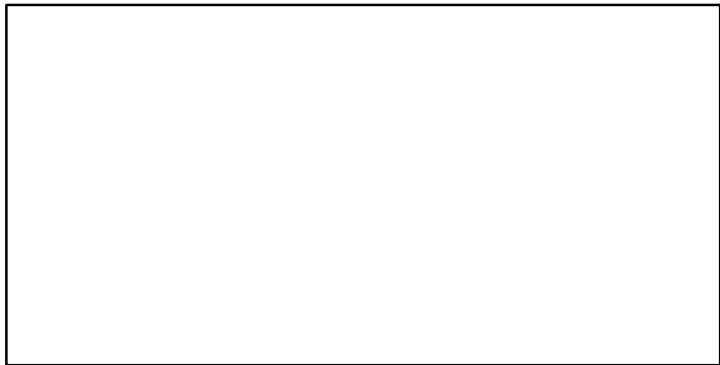
TN *



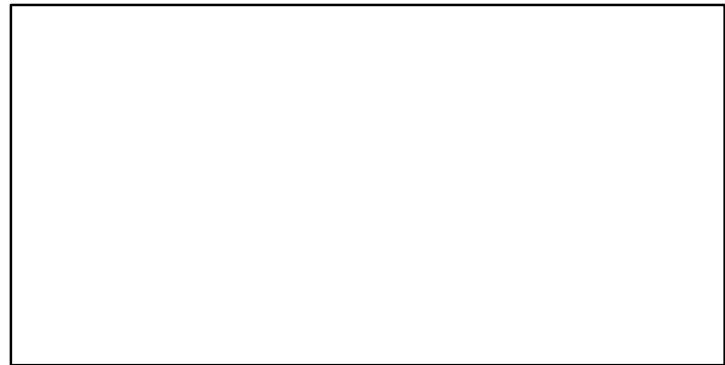
F*



ER*



Recruits*

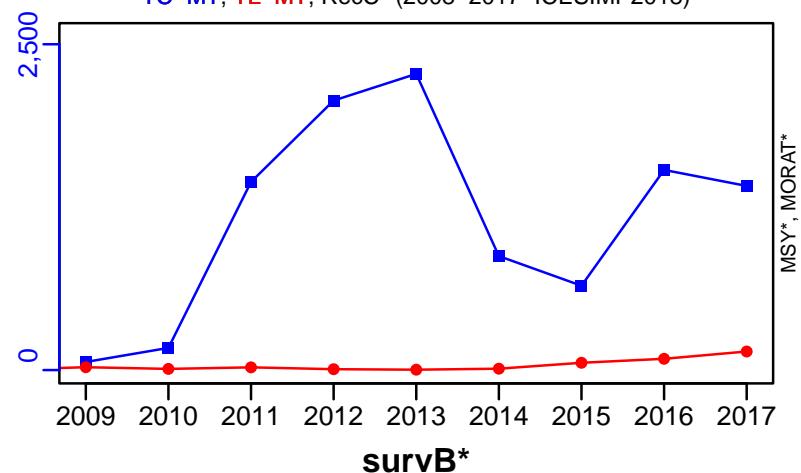


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Undulate ray ICES 7de [URAYVIIde]

TC-MT, TL-MT, RecC* (2008–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

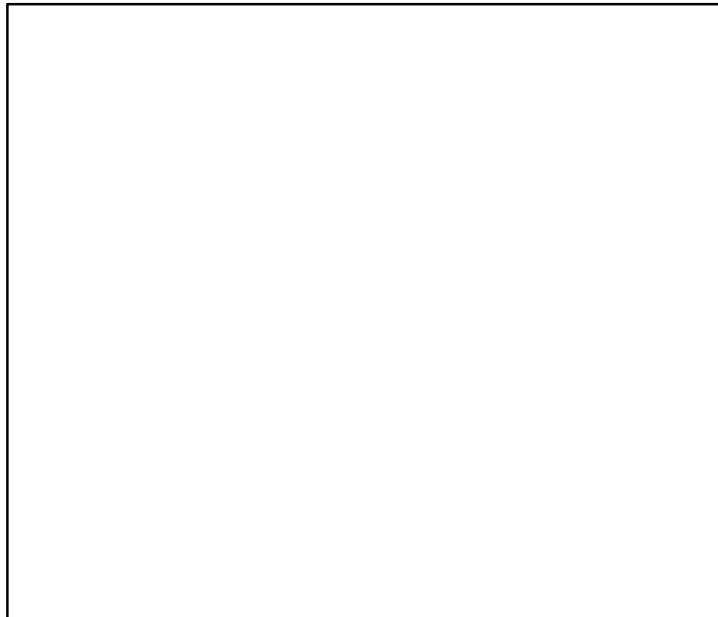
Undulate ray ICES 8ab [URAYVIIlab]

Metadata	
Scientific Name	Raja undulata
Current Assess ID	WGEF-URAYVIIlab-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

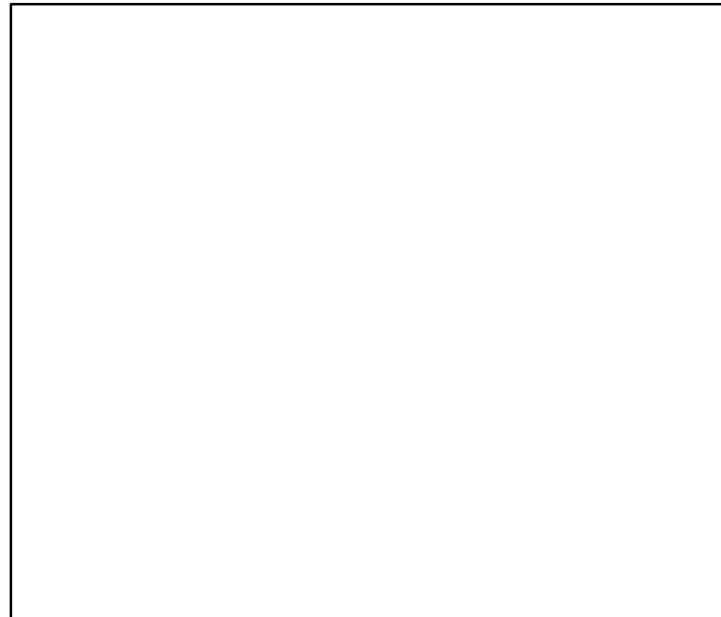
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*



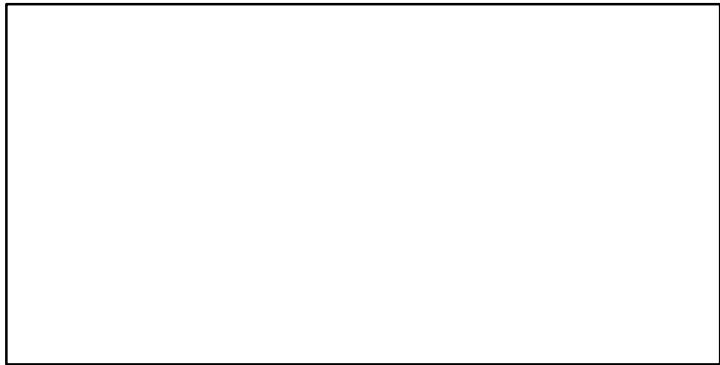
Production*



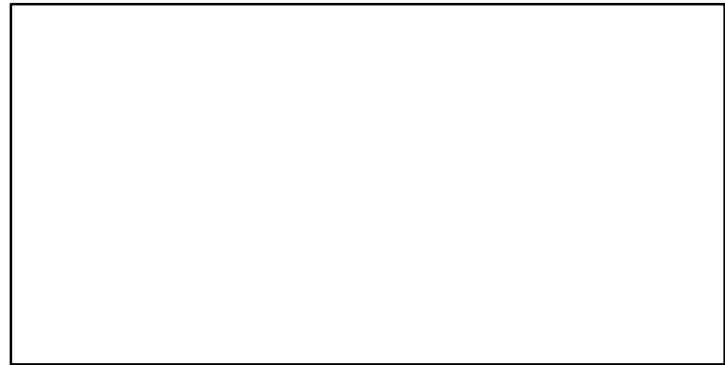
◆ Start Year ♦ End Year * No Data

Undulate ray ICES 8ab [URAYVIIlab]

TB*



SSB*



TN *



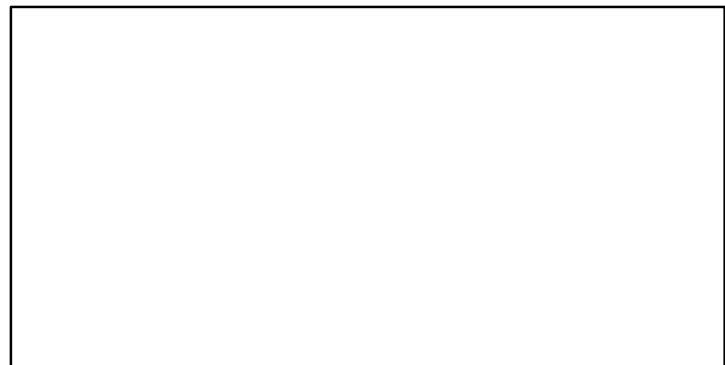
F*



ER*



Recruits*

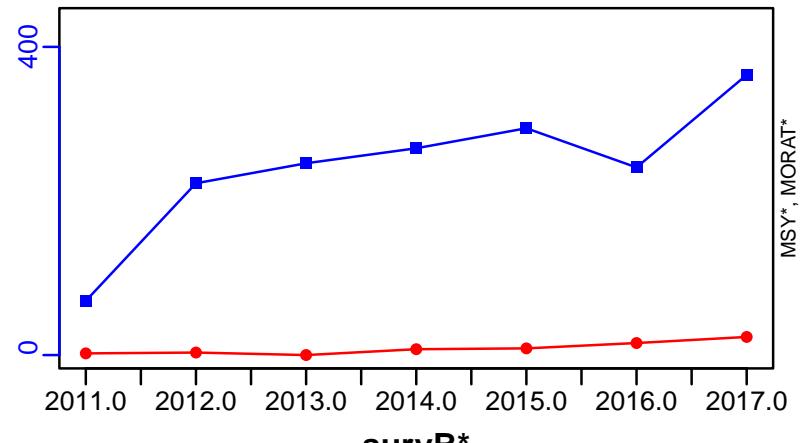


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Undulate ray ICES 8ab [URAYVIIlab]

TC-MT, TL-MT, RecC* (2009–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*



White anglerfish ICES 8c-9a [WANGLVIIIC-IXa]

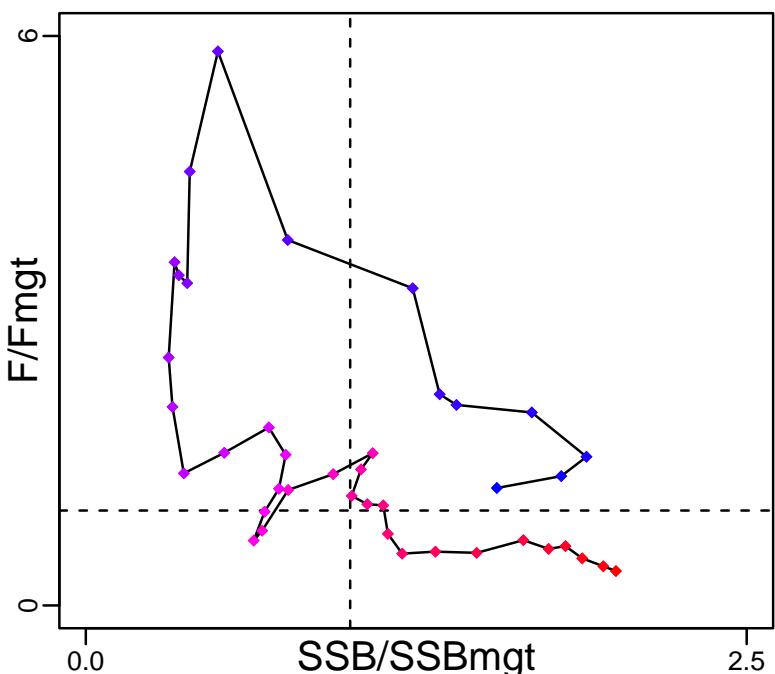
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVIIIC-IXa-1980-2021-ICESIMP2021-2
Area	ICES 8c-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.24
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	6283
Fmgt	Fmgt-1/yr	2021	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	1990
Flim	Flim-1/yr	2020	0.56
ERlim	-	-	-

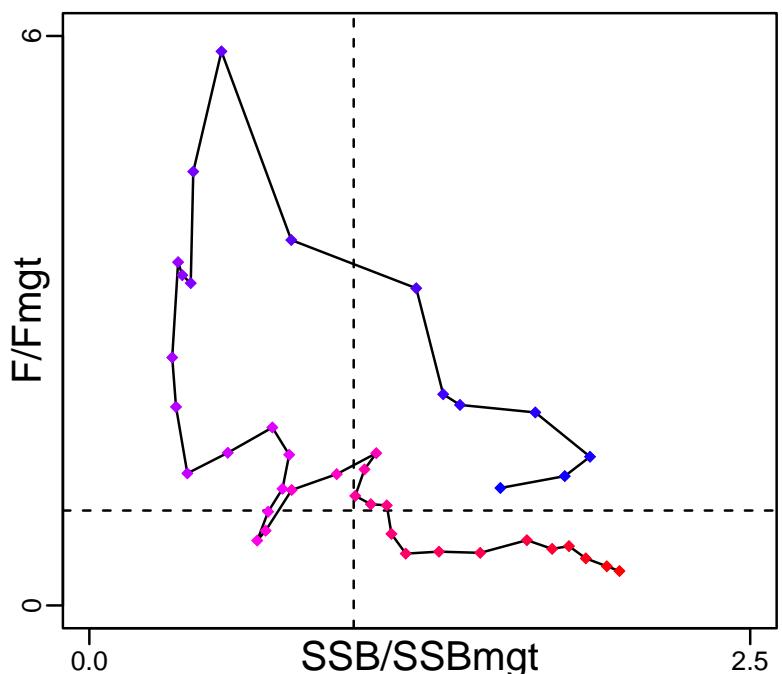
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	14,645	-	-
SSB	SSB-MT	2021	11,600	-	-
TN	-	-	-	-	-
R	R-E00	2021	706,000	-	0
F	F-1/yr	2021	0.083	-	-
ER	ER-calc-ratio	2019	0.078	-	-
TC	-	-	-		
TL	TL-MT	2021	722		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.346		
ER/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.989		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.346		
ER/ERmgt	-	-	-		

White anglerfish ICES 8c–9a [WANGLVIIIC–IXa]

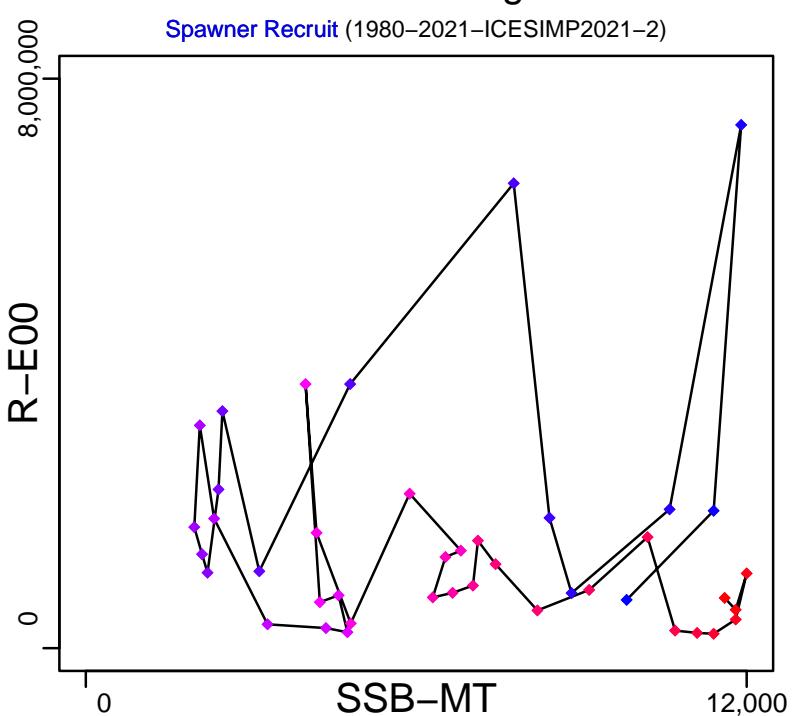
Kobe MSYpref (1980–2020–ICESIMP2021–2)



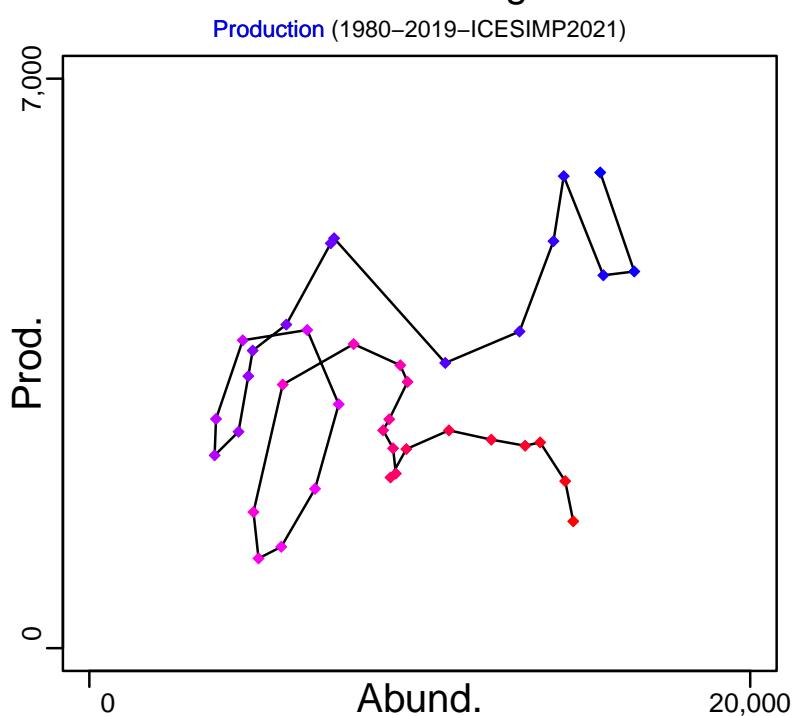
Kobe MGTpref (1980–2020–ICESIMP2021–2)



Spawner Recruit (1980–2021–ICESIMP2021–2)



Production (1980–2019–ICESIMP2021)

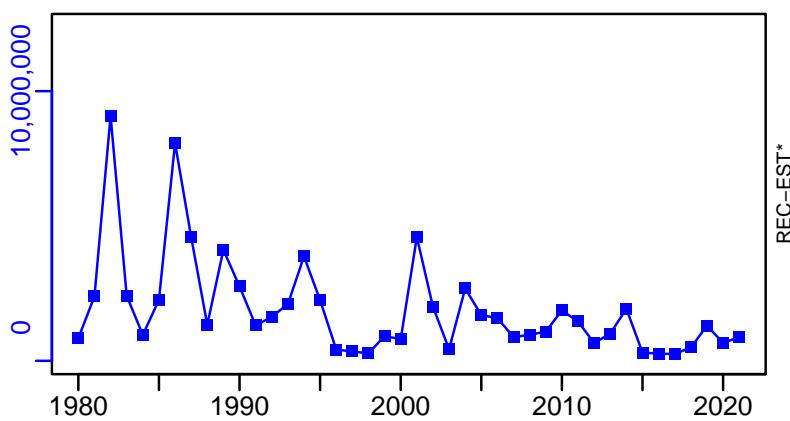
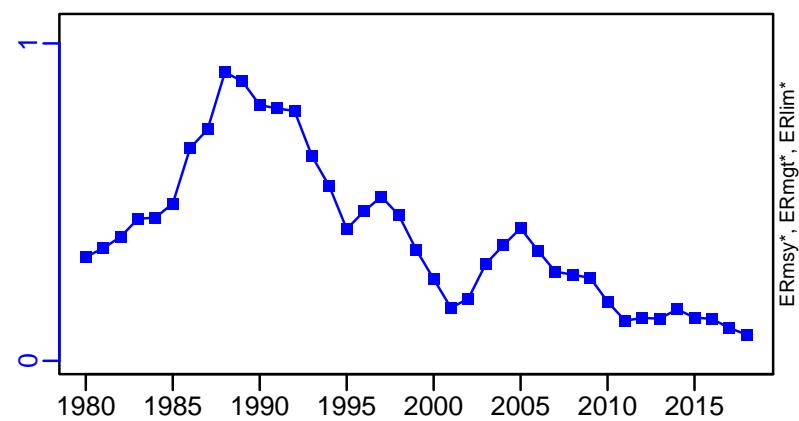
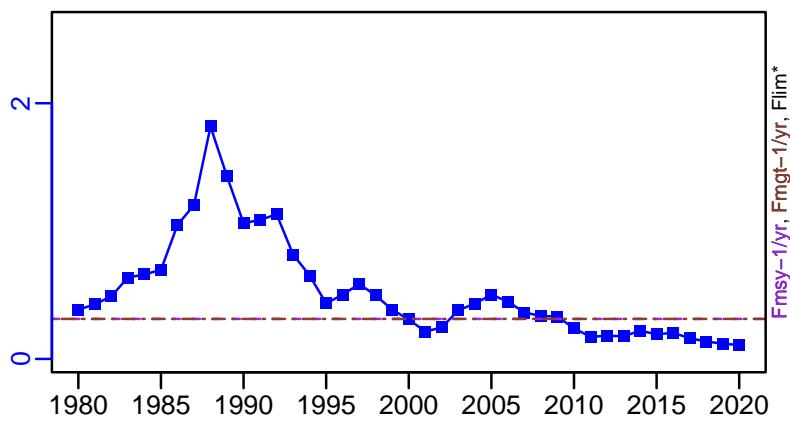
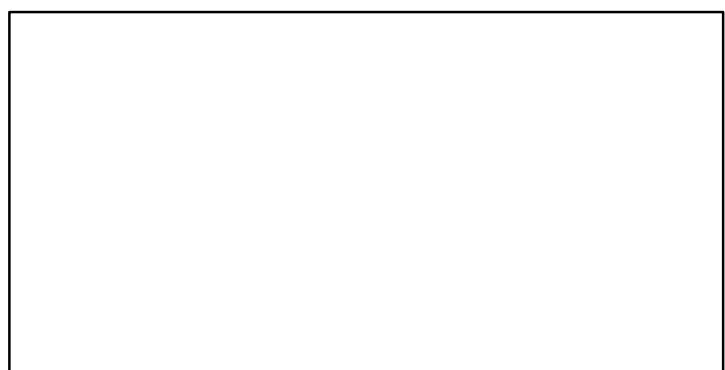
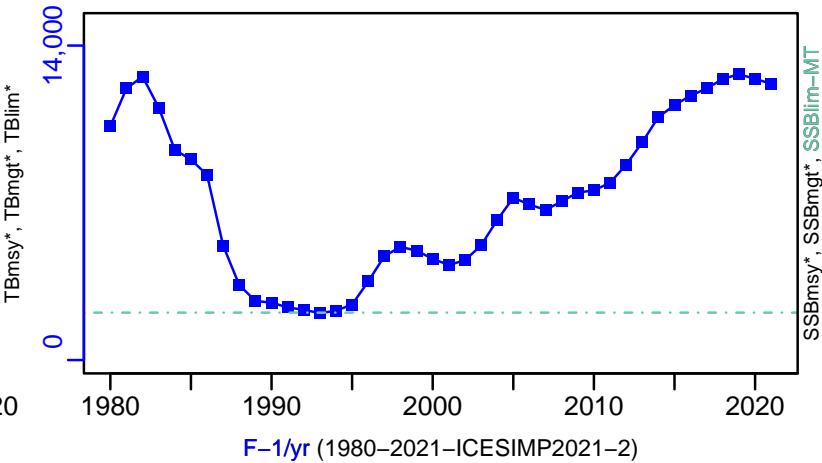
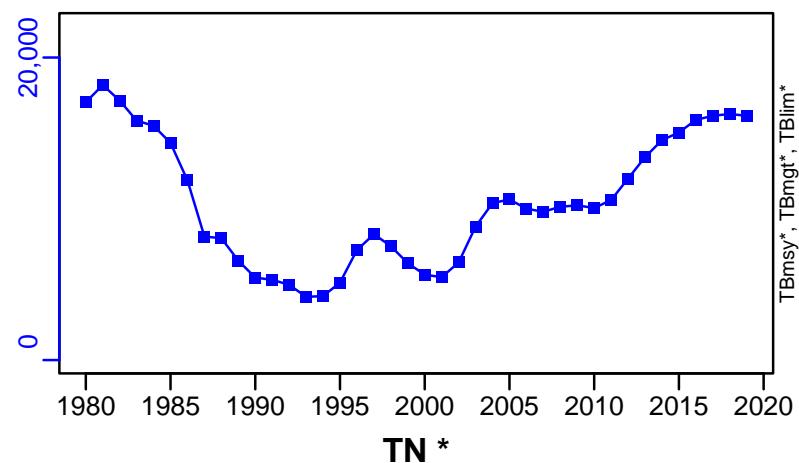


◆ Start Year ◆ End Year * No Data

White anglerfish ICES 8c–9a [WANGLVIIIC–IXa]

TB-MT (1980–2019–ICESIMP2021)

SSB-MT (1980–2021–ICESIMP2021–2)

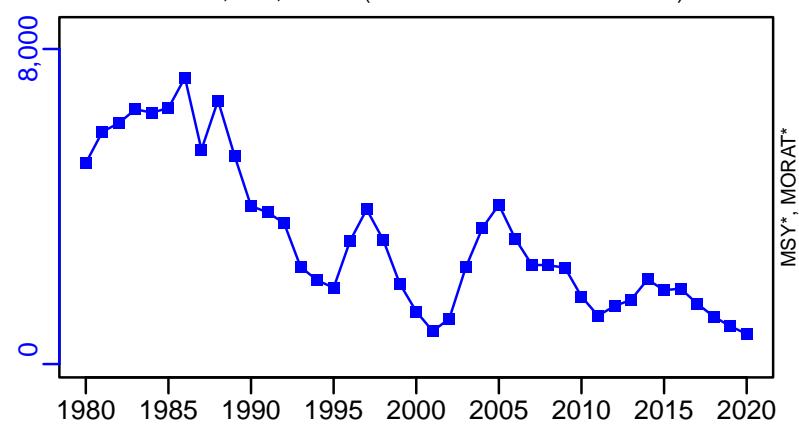


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

White anglerfish ICES 8c–9a [WANGLVIIIC–IXa]

TL–MT, TC*, RecC* (1980–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

White anglerfish ICES 7-8abd [WANGLVII-VIIIabd]

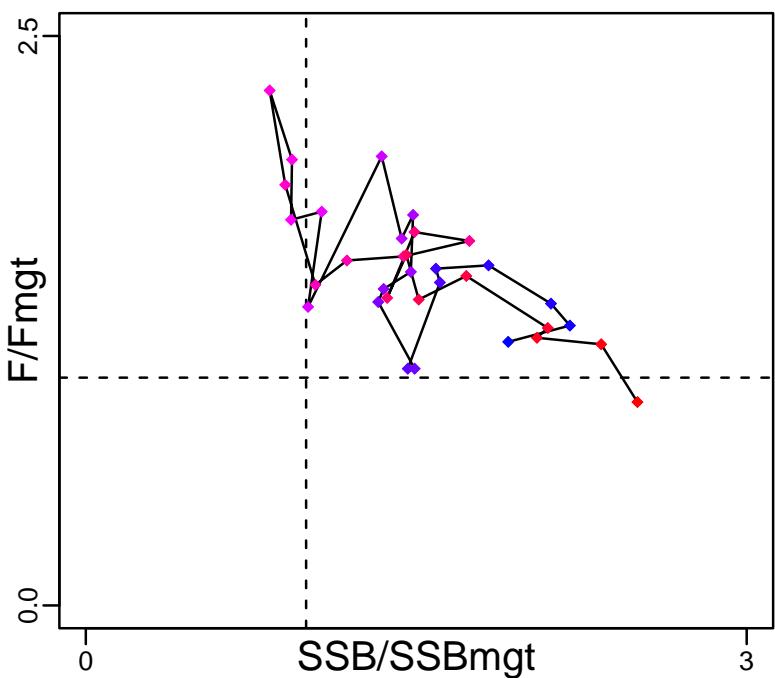
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVII-VIIIabd-1986-2021-ICESIMP2021-2
Area	ICES 7-8abd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.28
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	22,278
Fmgt	Fmgt-1/yr	2021	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	16,000
Flim	Flim-1/yr	2021	0.53
ERlim	-	-	-

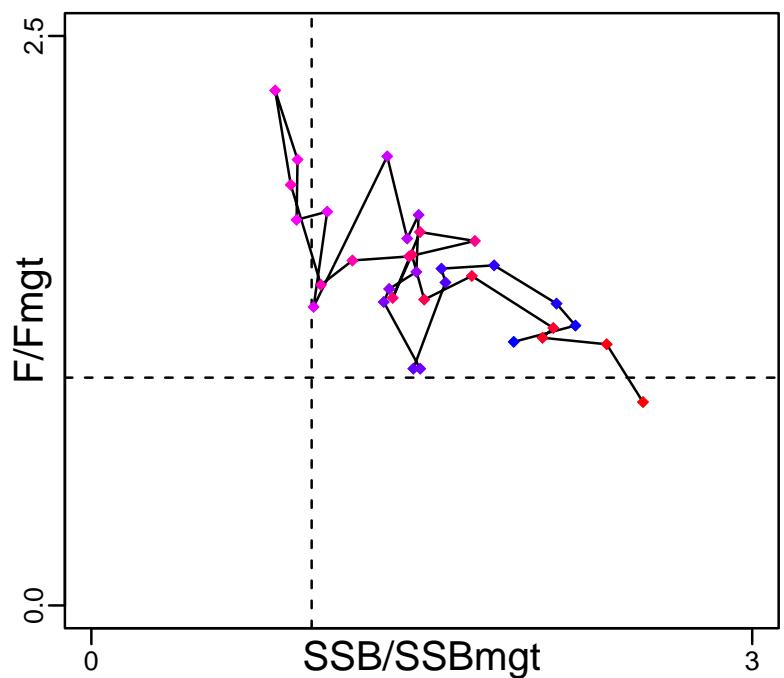
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	115,872	-	-
SSB	SSB-MT	2021	64,200	-	-
TN	-	-	-	-	-
R	R-E00	2021	32,700	-	0
F	F-1/yr	2021	0.233	-	-
ER	ER-calc-ratio	2019	0.205	-	-
TC	TC-MT	2021	21,500		
TL	TL-MT	2021	20,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.833		
ER/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	3.27		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.833		
ER/ERmgt	-	-	-		

White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

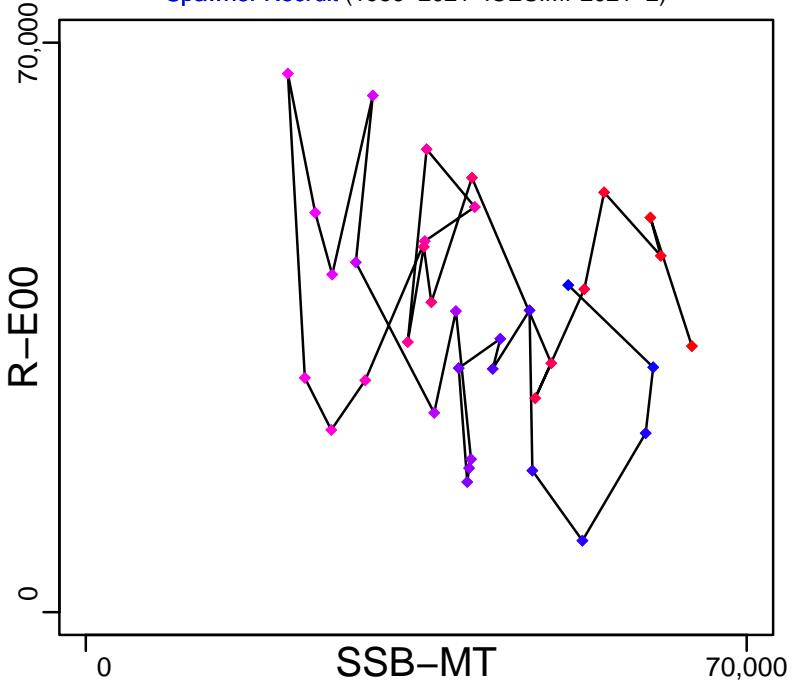
Kobe MSYpref (1986–2019–ICESIMP2021)



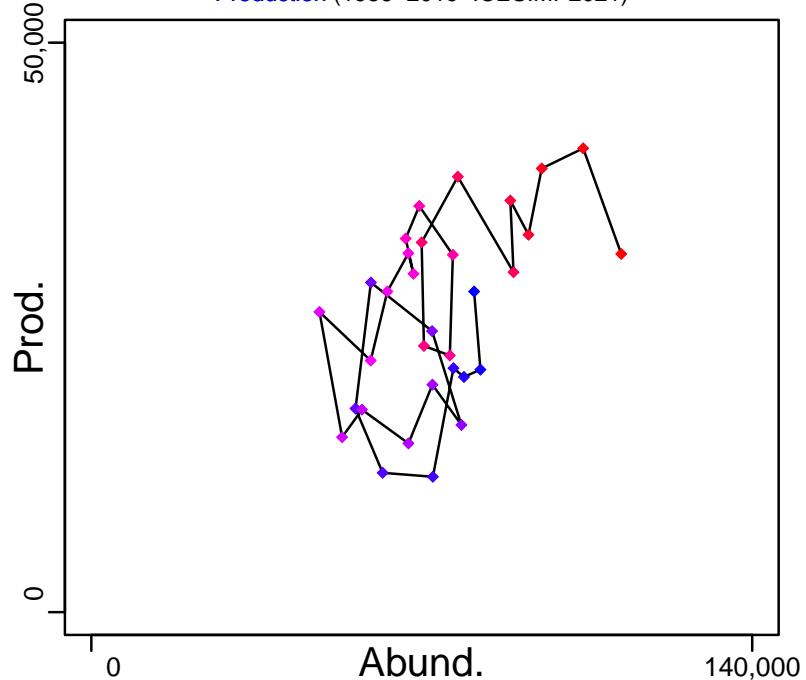
Kobe MGTpref (1986–2019–ICESIMP2021)



Spawner Recruit (1986–2021–ICESIMP2021–2)



Production (1986–2019–ICESIMP2021)

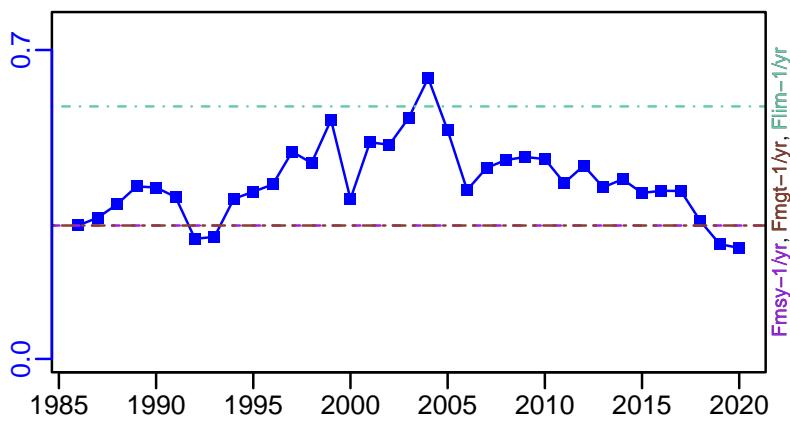
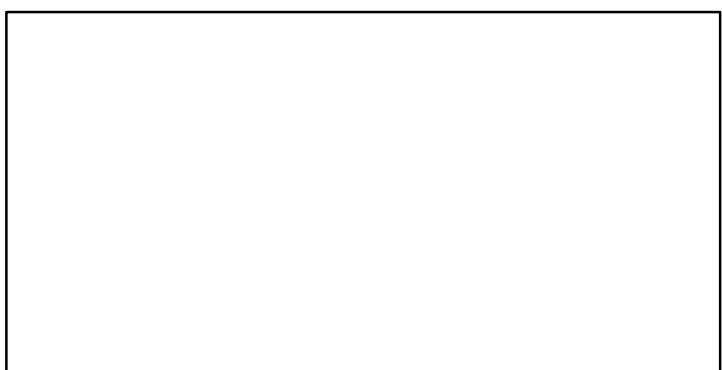
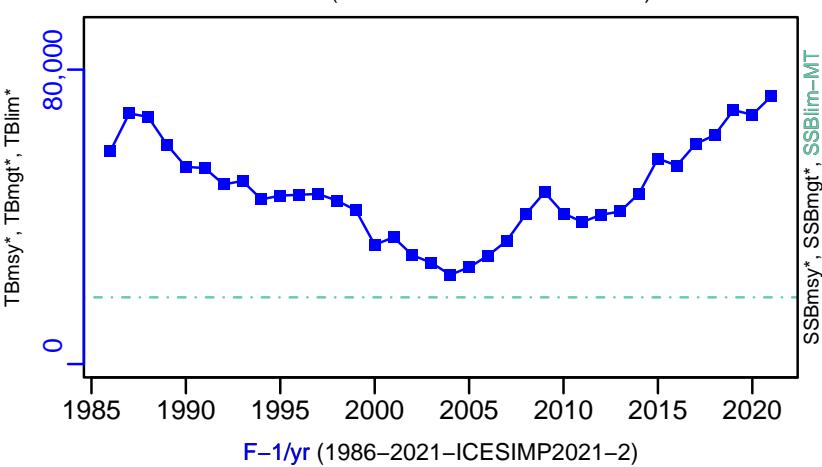
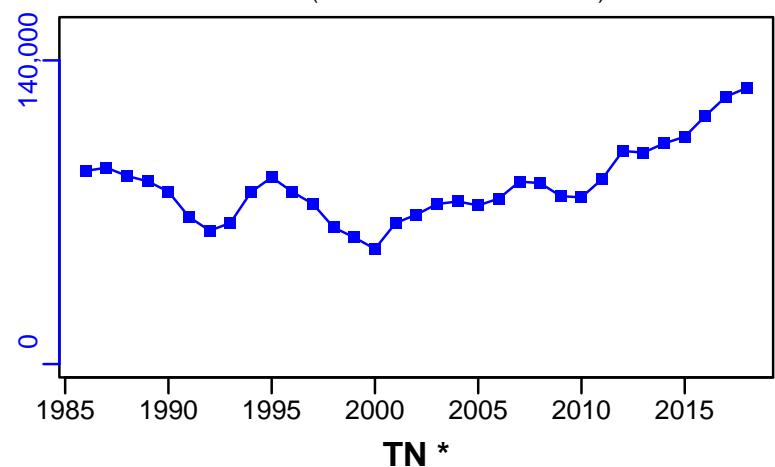


◆ Start Year ◆ End Year * No Data

White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

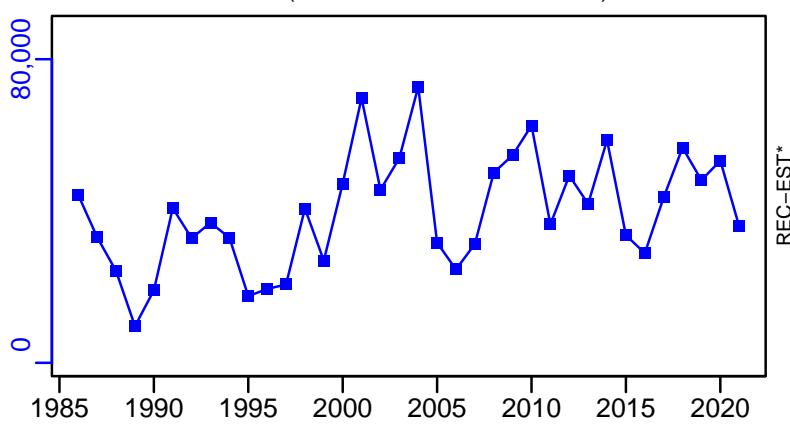
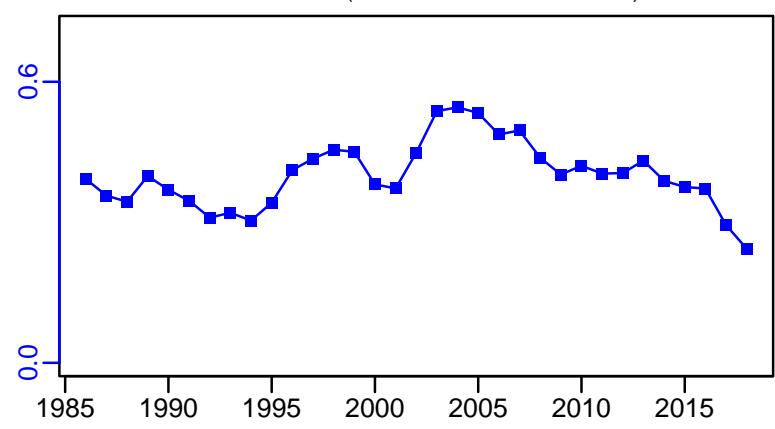
TB-MT (1986–2019–ICESIMP2021)

SSB-MT (1986–2021–ICESIMP2021–2)



ER-calc-ratio (1986–2019–ICESIMP2021)

R-E00 (1986–2021–ICESIMP2021–2)

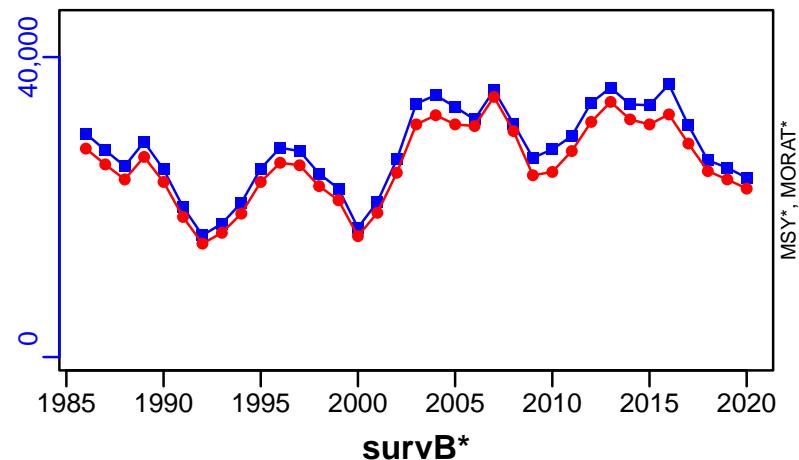


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

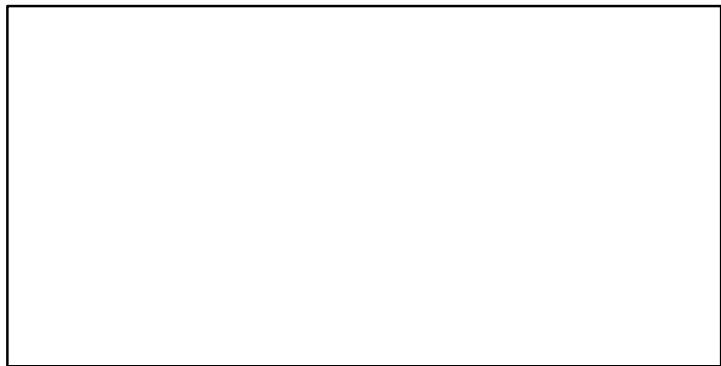
White anglerfish ICES 7–8abd [WANGLVII–VIIIabd]

TC–MT, TL–MT, RecC* (1986–2021–ICESIMP2021–2)

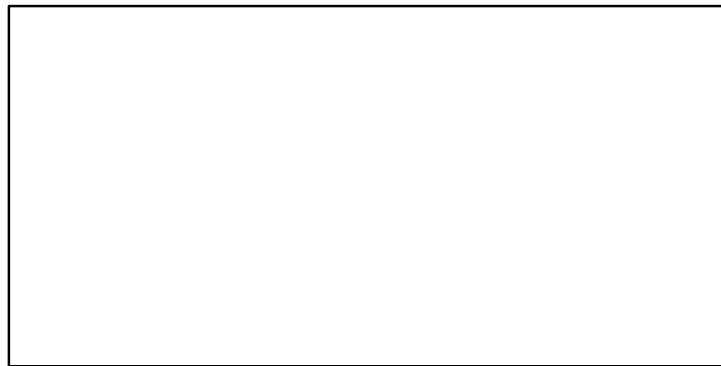
TAC*, Cpair*, Cadv*



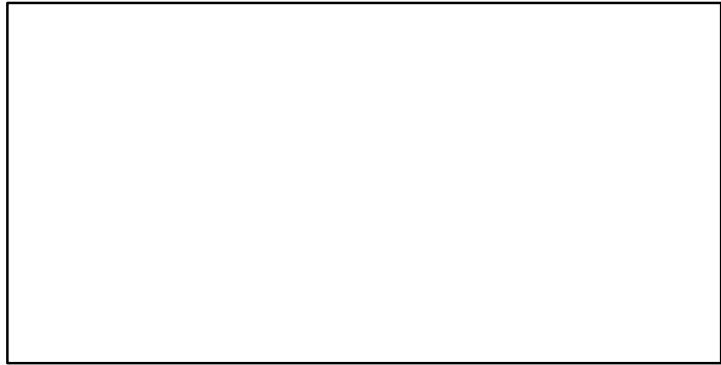
survB*



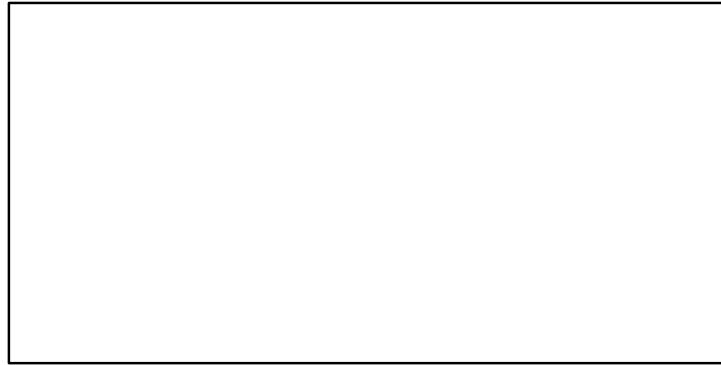
CPUE*



EFFORT*



CdivMSY*



- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Whiting Kattegat and Skagerrak [WHITIIIa]

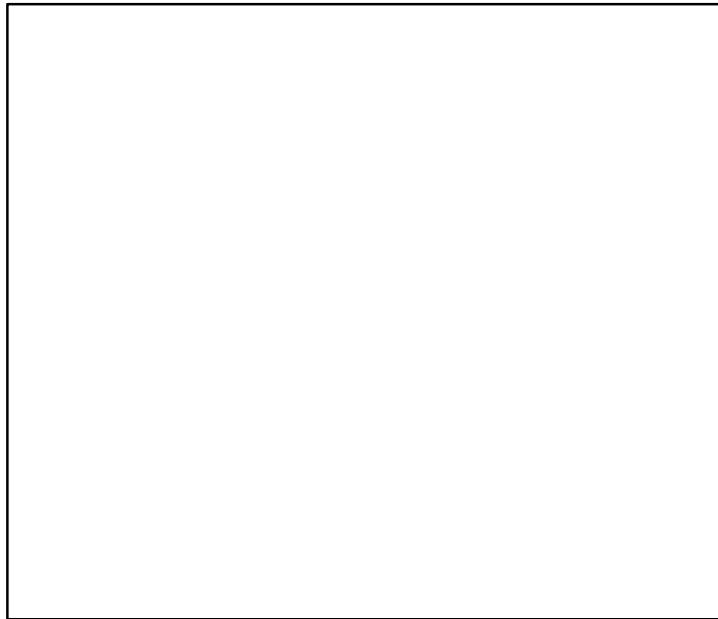
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITIIIa-1975-2019-ICESIMP2021-2
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

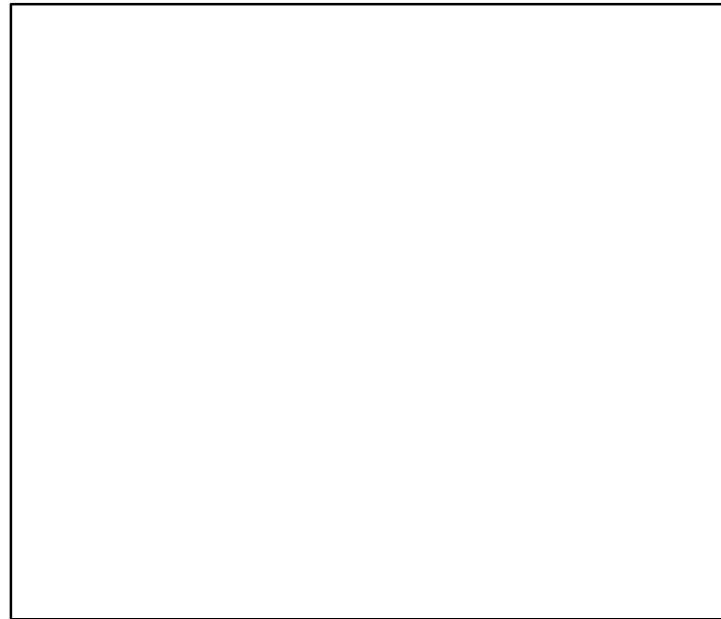
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	806		
TL	TL-MT	2019	179		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Whiting Kattegat and Skagerrak [WHITIIa]

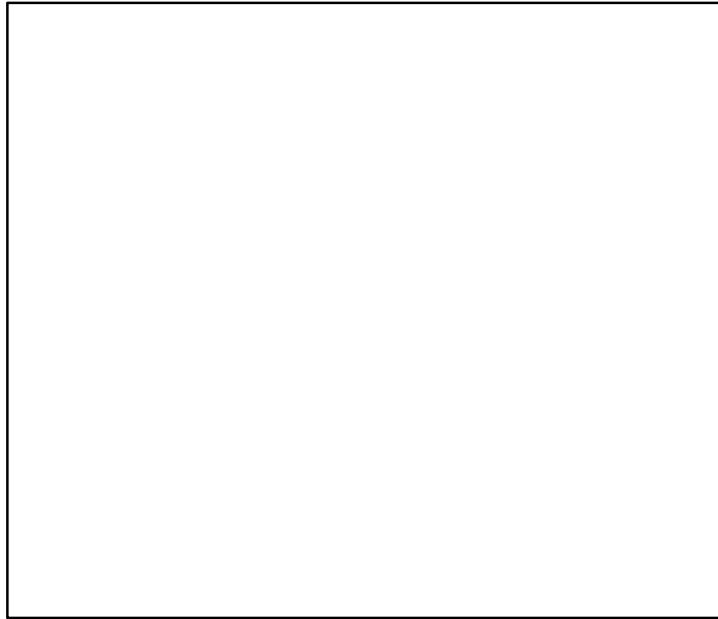
Kobe MSY*



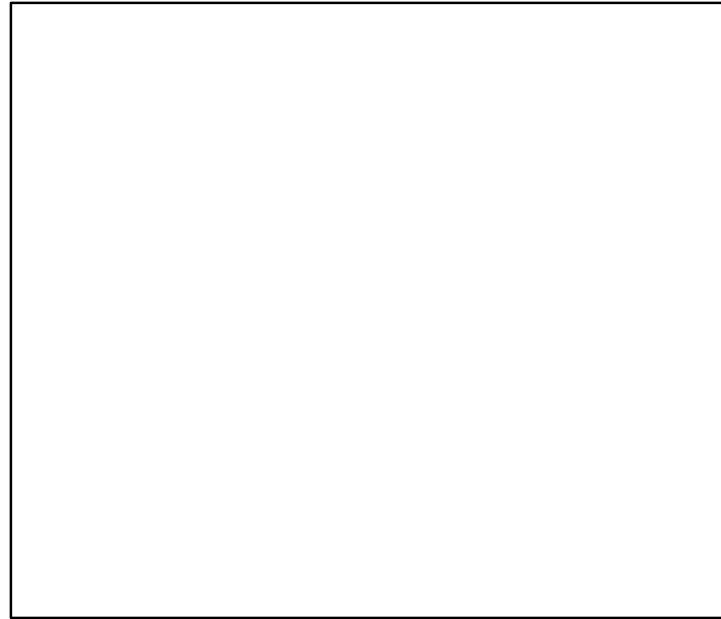
Kobe MGT*



Spawner Recruit*



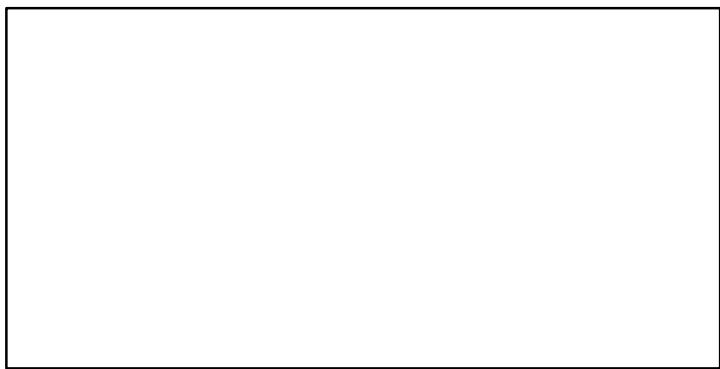
Production*



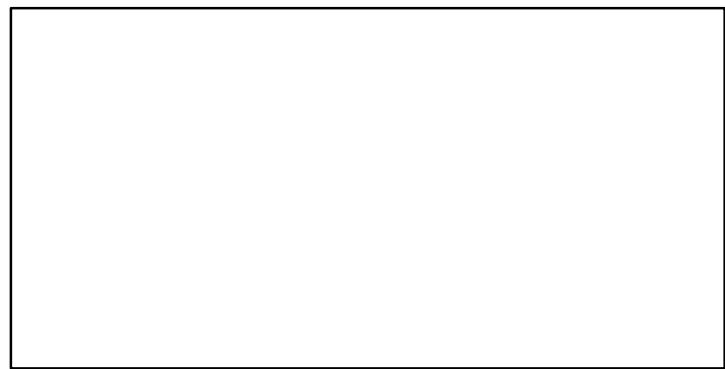
◆ Start Year ♦ End Year * No Data

Whiting Kattegat and Skagerrak [WHITIIa]

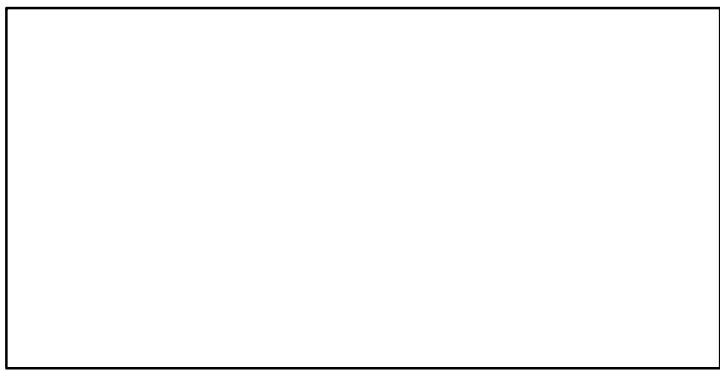
TB*



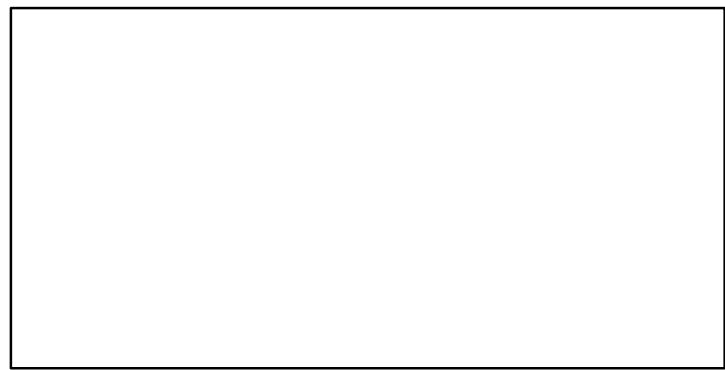
SSB*



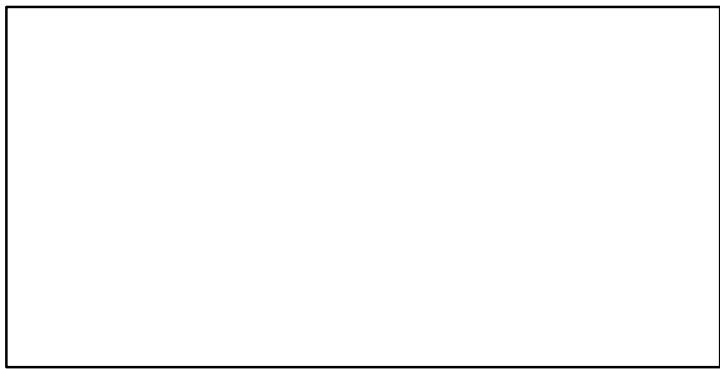
TN *



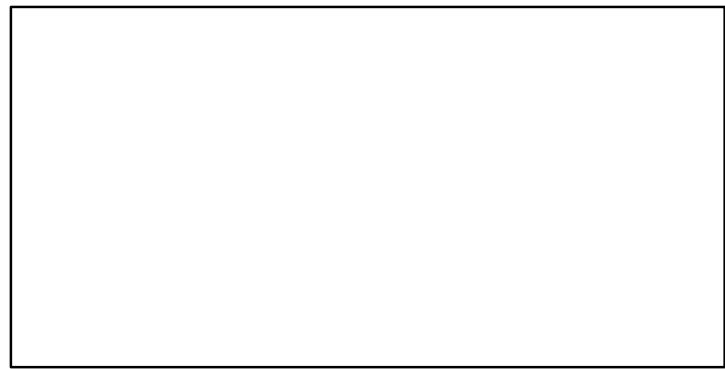
F*



ER*



Recruits*

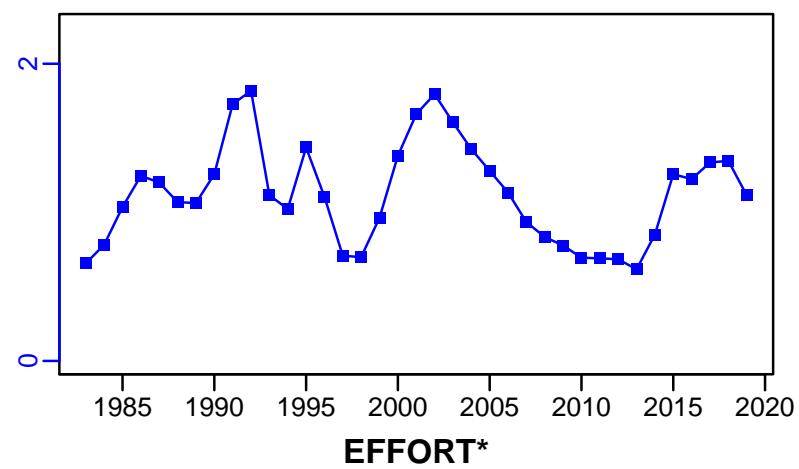
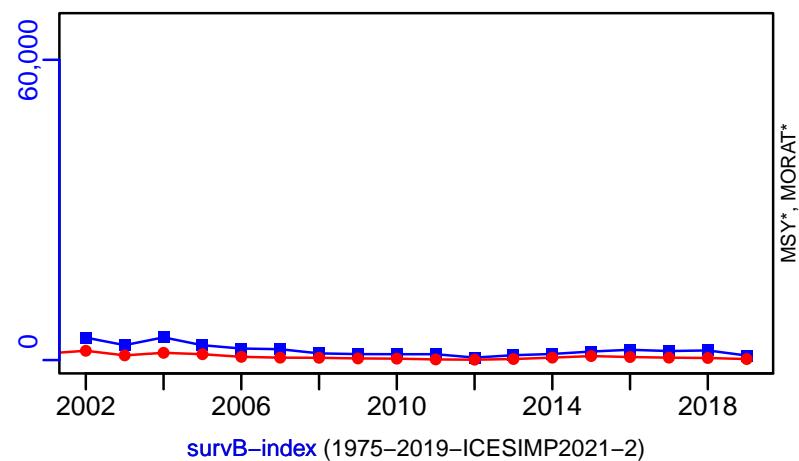


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Whiting Kattegat and Skagerrak [WHITIIa]

TC-MT, TL-MT, RecC* (1975–2019–ICESIMP2021–2)

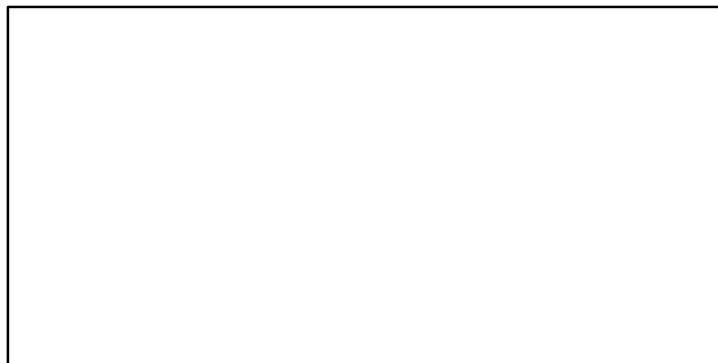
TAC*, Cpair*, Cadv*



CPUE*



CdivMSY*



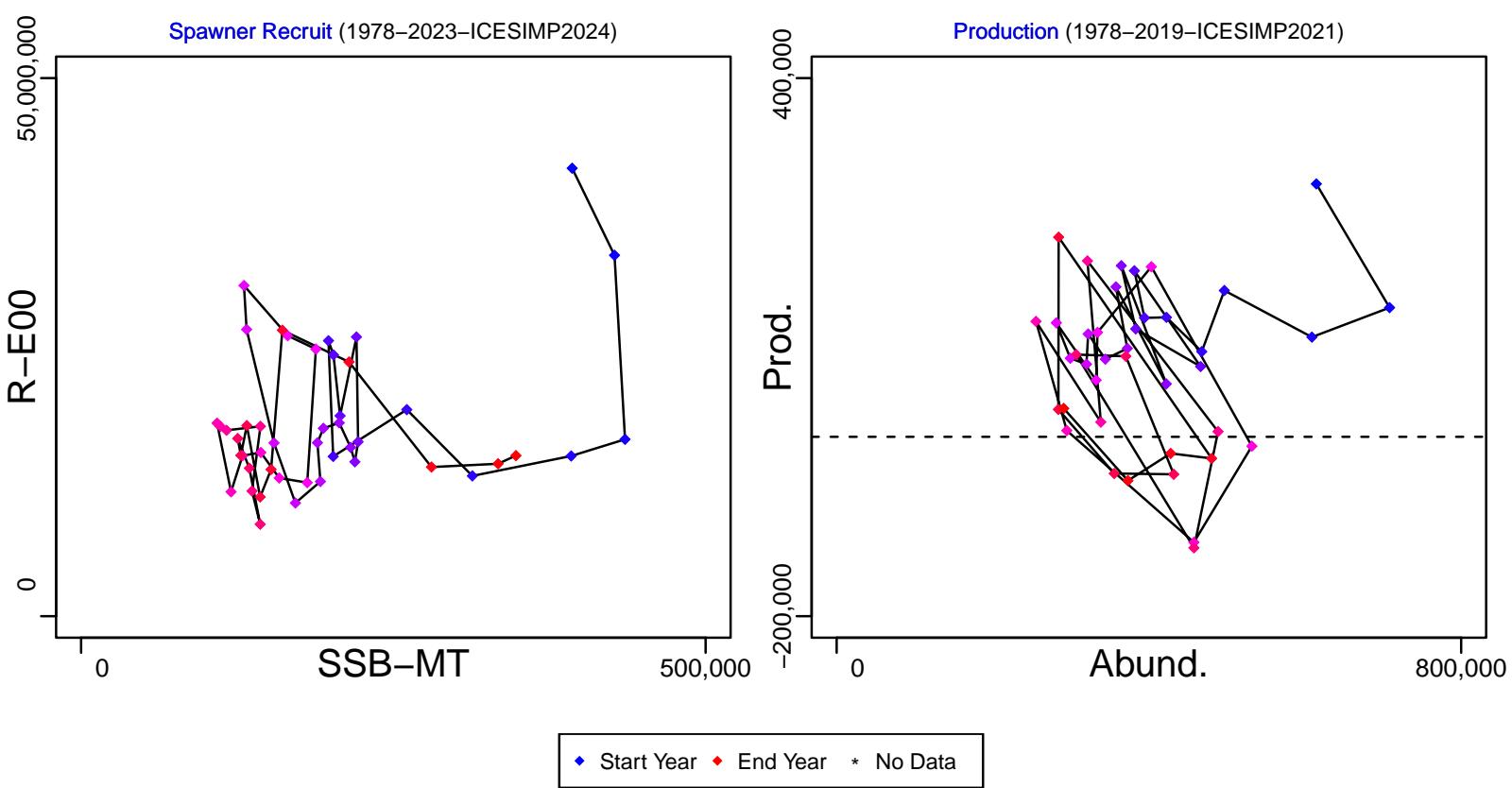
■ 1st listed time series	▲ 3rd listed time series	— MORAT
● 2nd listed time series	- - - MSY	* No Data

Whiting ICES 4-7d [WHITNS-VIId]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITNS-VIId-1978-2023-ICESIMP2024
Area	ICES 4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2018, 2019, 2020, 2021, 2023, 2012, 2013, 2014, 2015, 2016, 2017

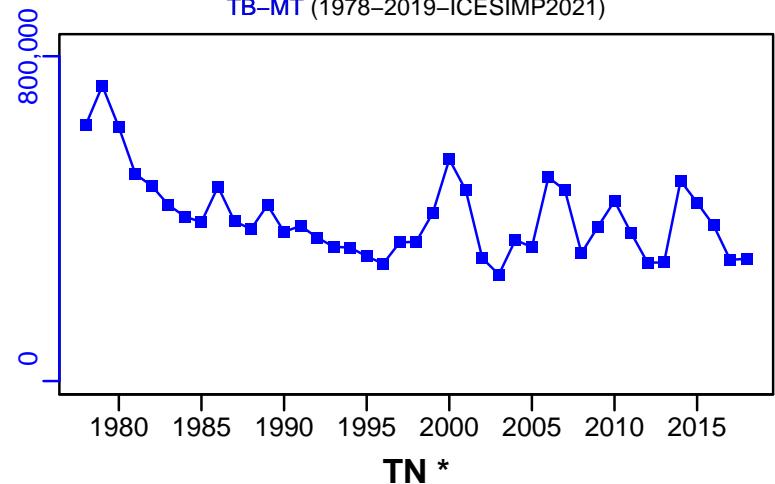
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.393
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2023	0.393
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	107,146
Flim	Flim-1/yr	2023	0.935
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	293,190	-	-
SSB	SSB-MT	2023	348,137	-	-
TN	-	-	-	-	-
R	R-E00	2023	14,923,014	-	0
F	F-1/yr	2023	0.101	-	-
ER	ER-calc-ratio	2019	0.096	-	-
TC	TC-MT	2023	27,907		
TL	TL-MT	2023	15,167		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	0.257		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	0.257		
ER/ERmgt	-	-	-		

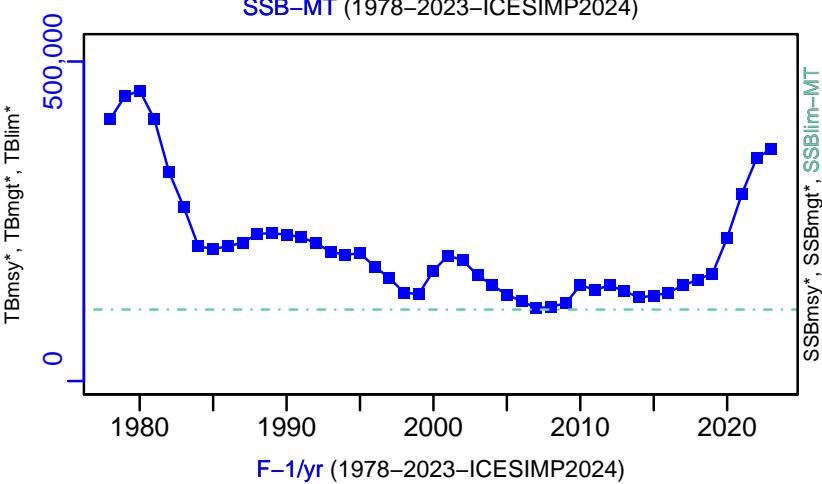
Kobe MSY***Kobe MGT***

Whiting ICES 4–7d [WHITNS–VII^d]

TB-MT (1978–2019–ICESIMP2021)



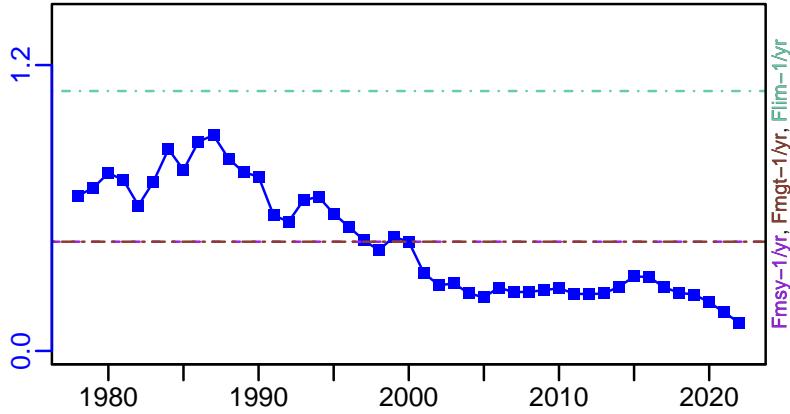
SSB-MT (1978–2023–ICESIMP2024)



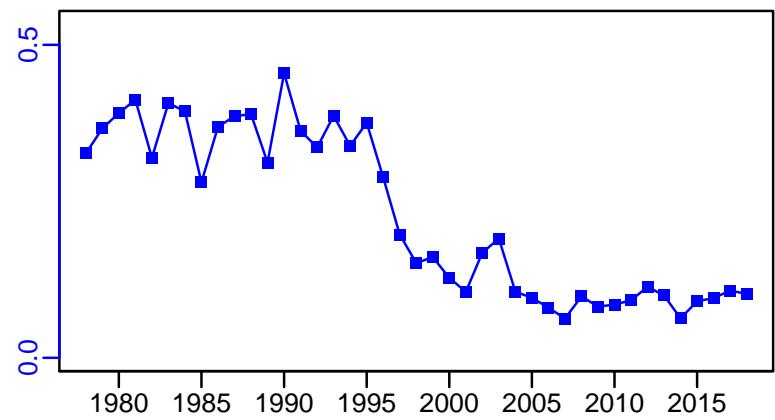
TN *



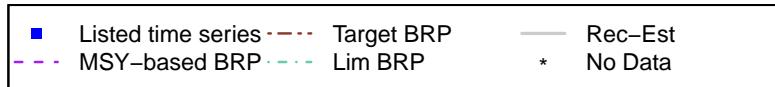
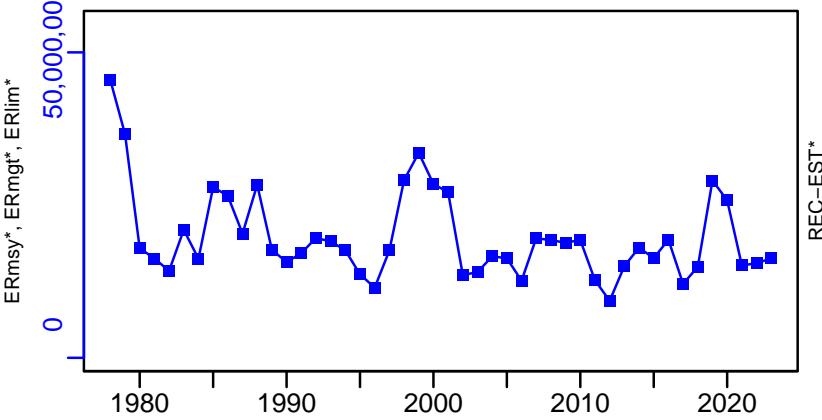
F-1/yr (1978–2023–ICESIMP2024)



ER-calc-ratio (1978–2019–ICESIMP2021)



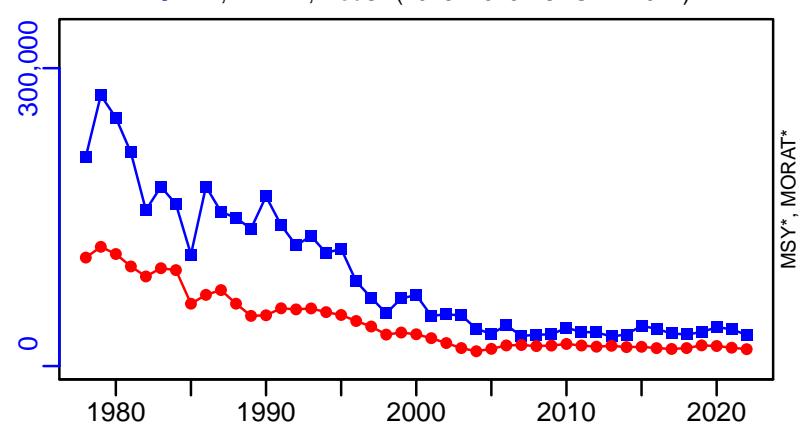
R-E00 (1978–2023–ICESIMP2024)



Whiting ICES 4–7d [WHITNS–VIIId]

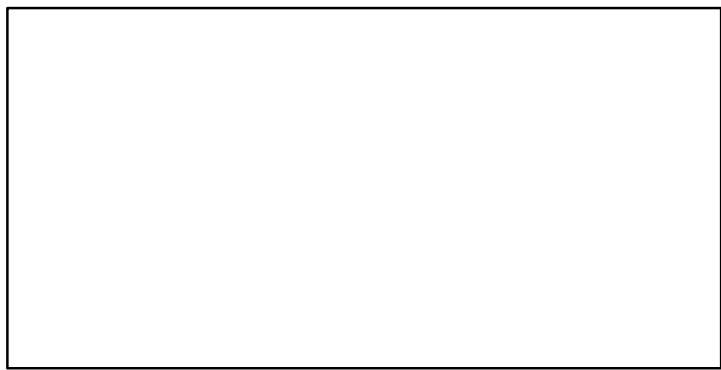
TC–MT, TL–MT, RecC* (1978–2023–ICESIMP2024)

TAC*, Cpair*, Cadv*

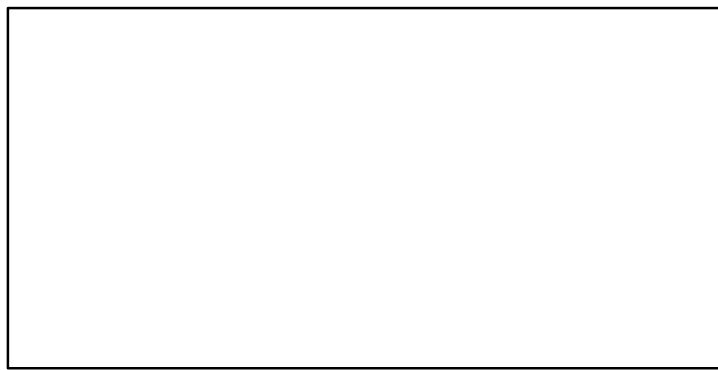


survB*

MSY*, MORAT*



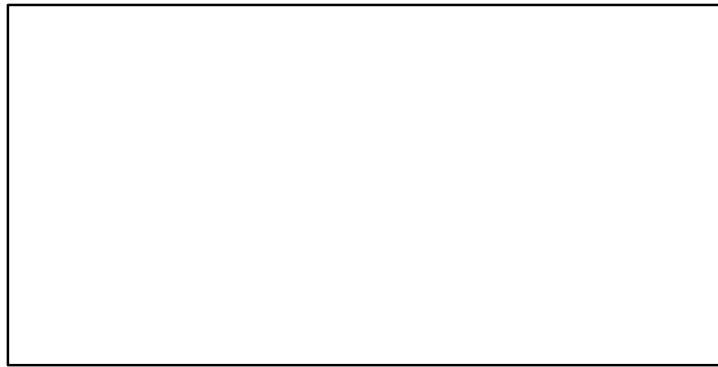
CPUE*



EFFORT*



CdivMSY*



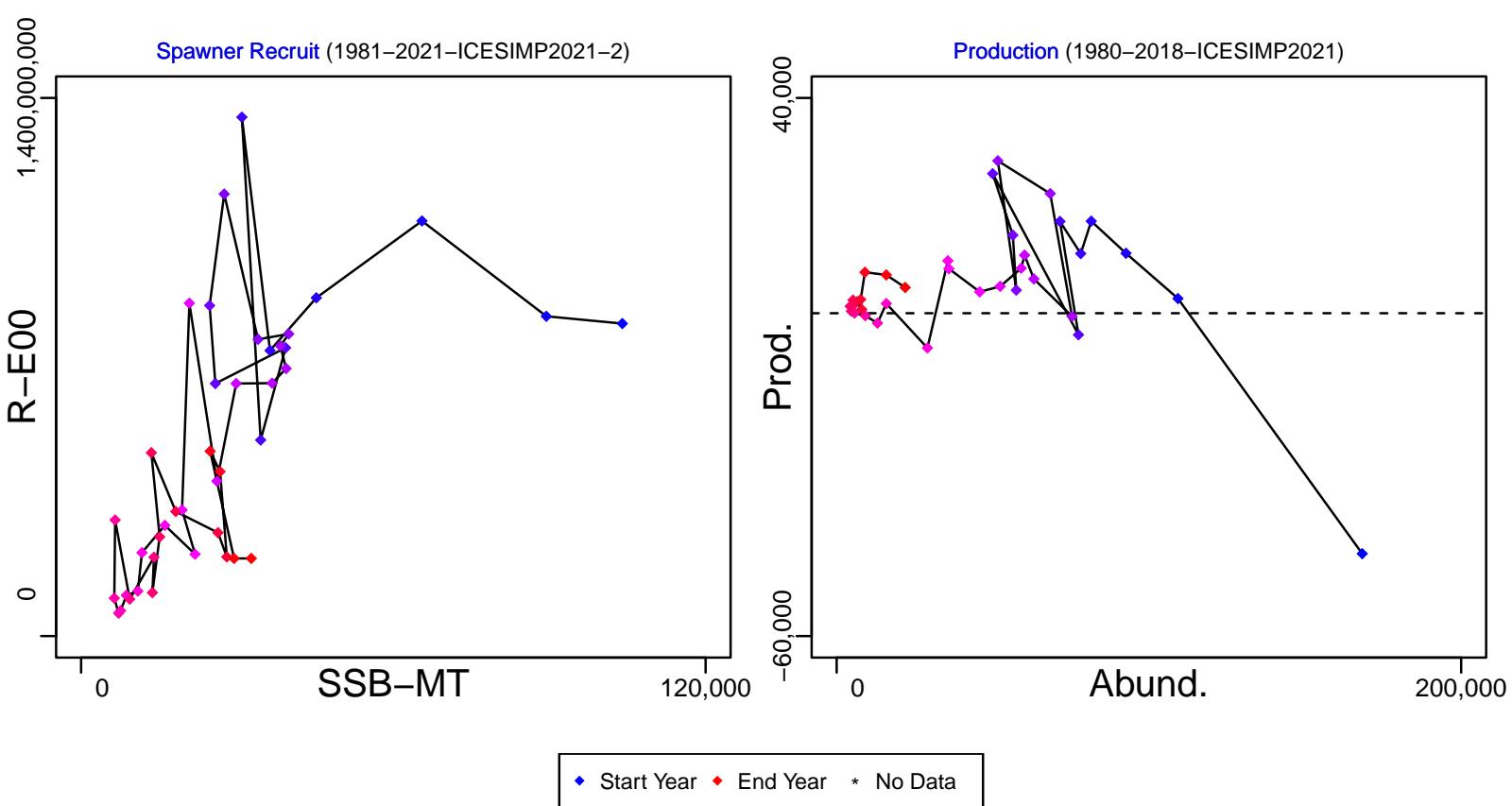
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Whiting West of Scotland [WHITVla]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVla-1981-2021-ICESIMP2021-2
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2020, 2013, 2014, 2015, 2016, 2017, 2018, 2021, 2012

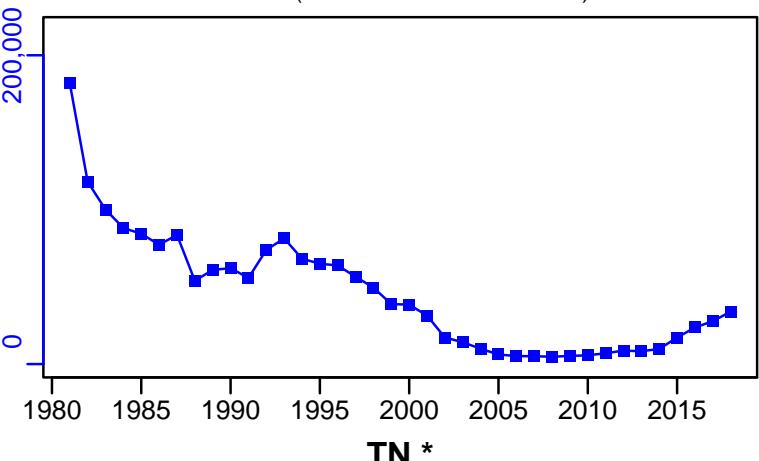
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.21
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	17,300
Flim	Flim-1/yr	2021	0.31
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2018	31,460	-	-	
SSB	SSB-MT	2021	32,700	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	2.02×10^8	-	0	
F	F-1/yr	2021	0.065	-	-	
ER	ER-calc-ratio	2018	0.054	-	-	
TC	TC-MT	2021	1360			
TL	TL-MT	2021	544			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	0.31			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.31			
ER/ERmgt	-	-	-			

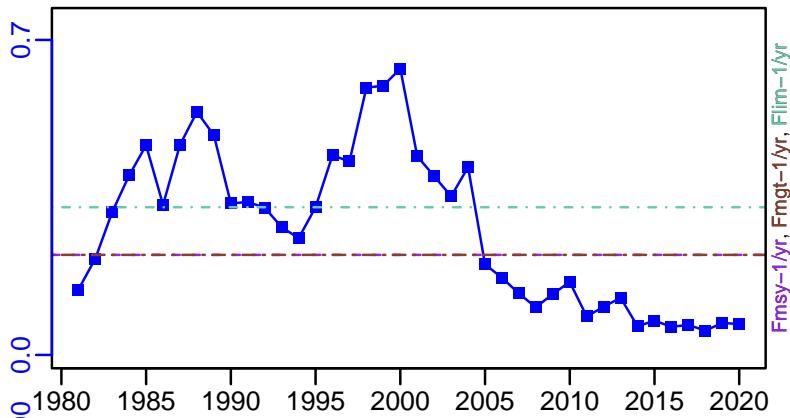
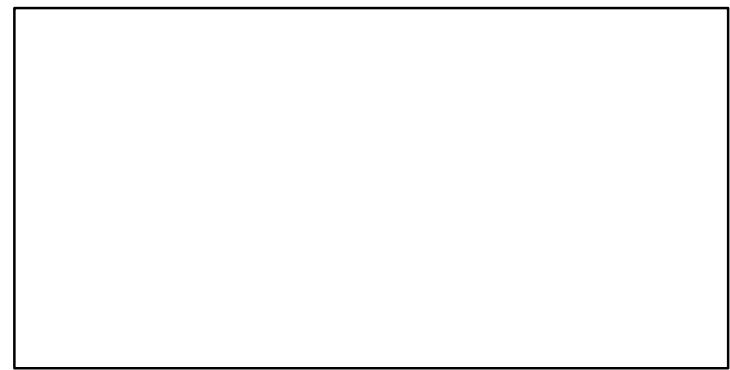
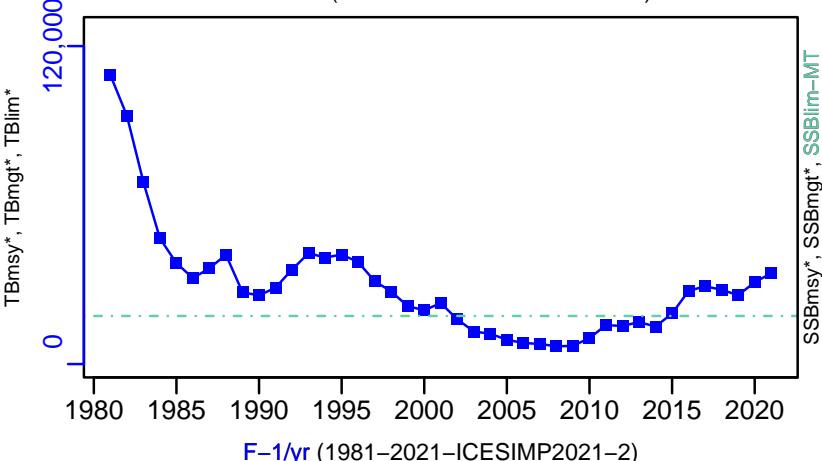
Kobe MSY***Kobe MGT***

Whiting West of Scotland [WHITVla]

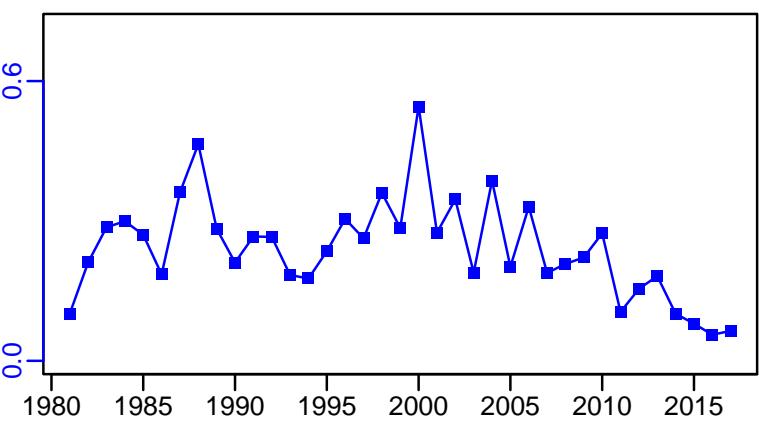
TB-MT (1980–2018–ICESIMP2021)



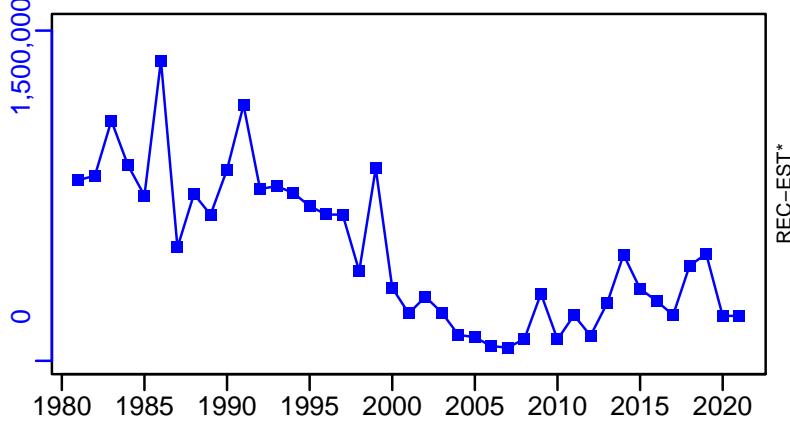
SSB-MT (1981–2021–ICESIMP2021–2)



ER-calc-ratio (1980–2018–ICESIMP2021)



R-E00 (1981–2021–ICESIMP2021–2)

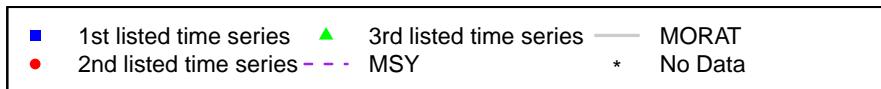
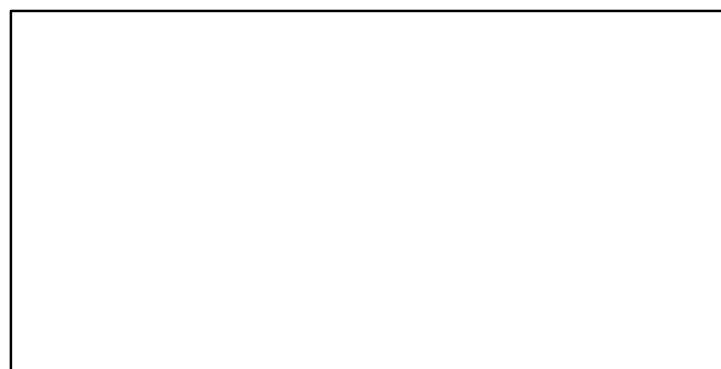
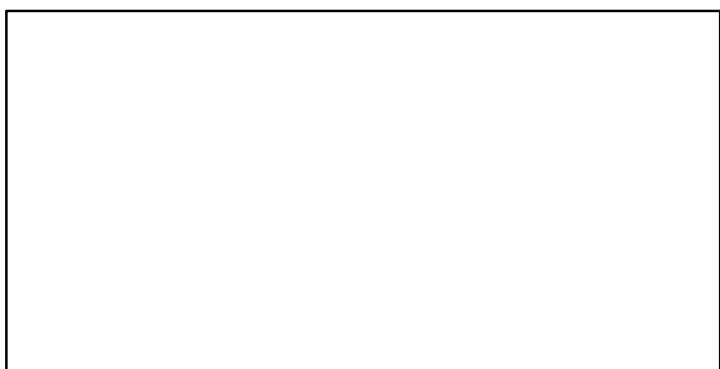
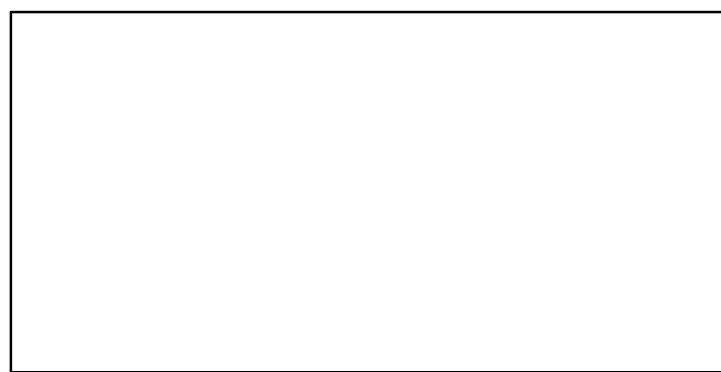
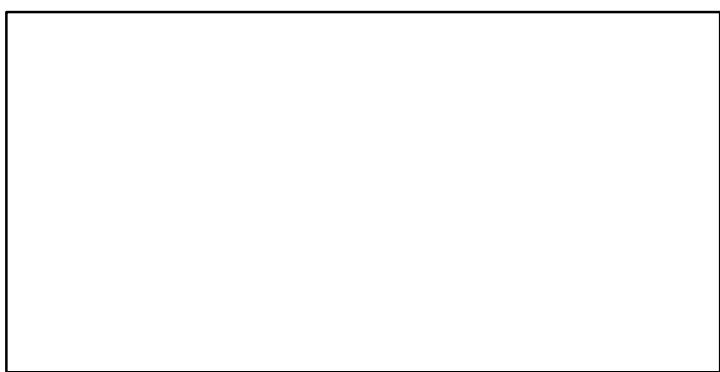
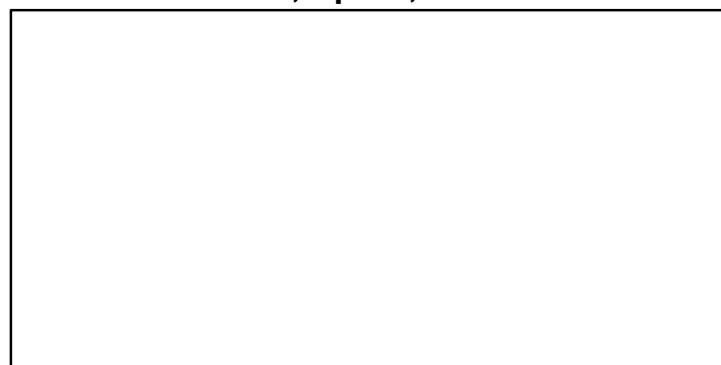
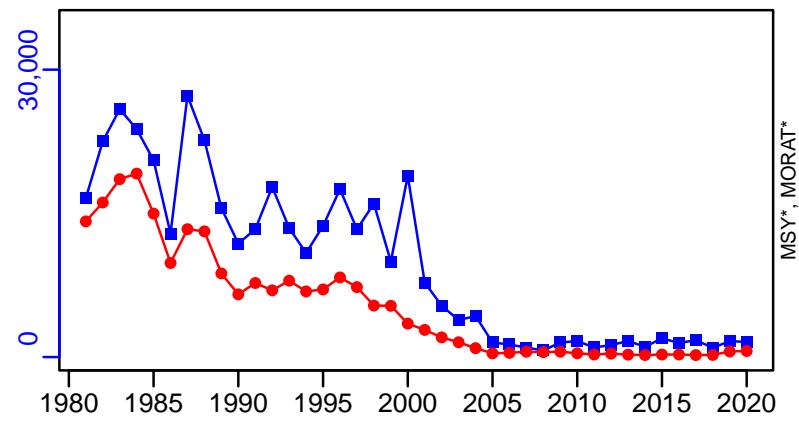


■ Listed time series	— Target BRP	— Rec-Est
- MSY-based BRP	- Lim BRP	* No Data

Whiting West of Scotland [WHITVla]

TC-MT, TL-MT, RecC* (1981–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



Whiting Rockall Bank [WHITVIb]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIb-1961-2020-ICESIMP2021-2
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2017, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2020	38		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Whiting Rockall Bank [WHITVlb]

TB*



SSB*



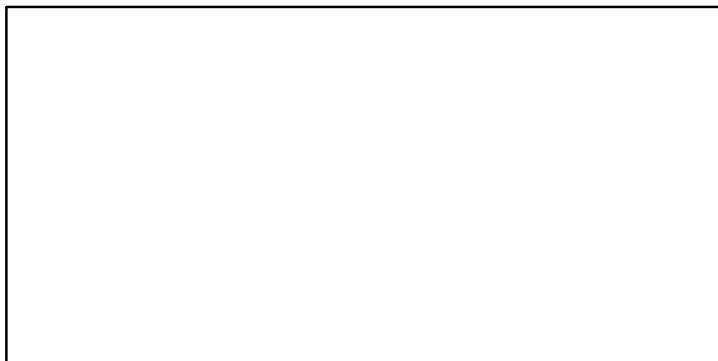
TN *



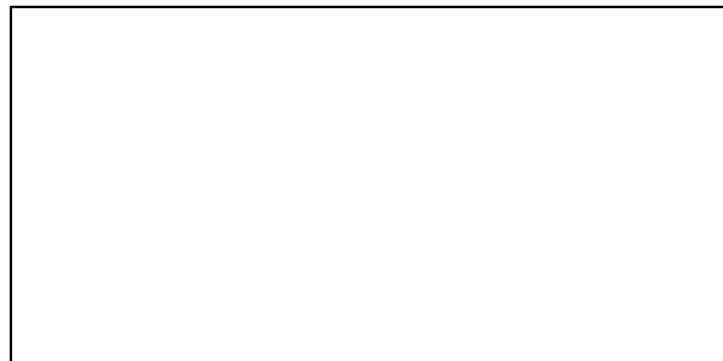
F*



ER*



Recruits*

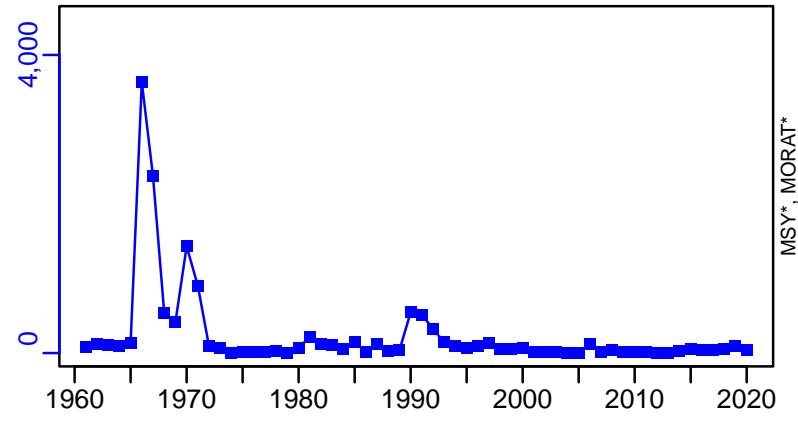


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

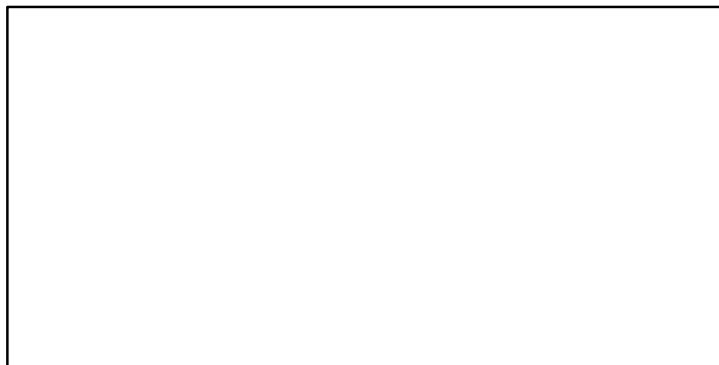
Whiting Rockall Bank [WHITVlb]

TL-MT, TC*, RecC* (1961–2020–ICESIMP2021–2)

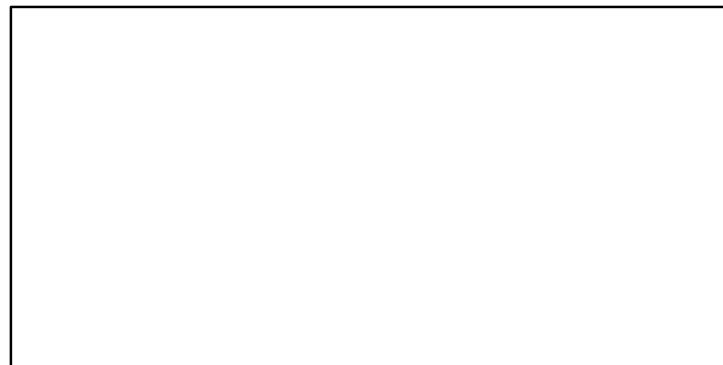
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



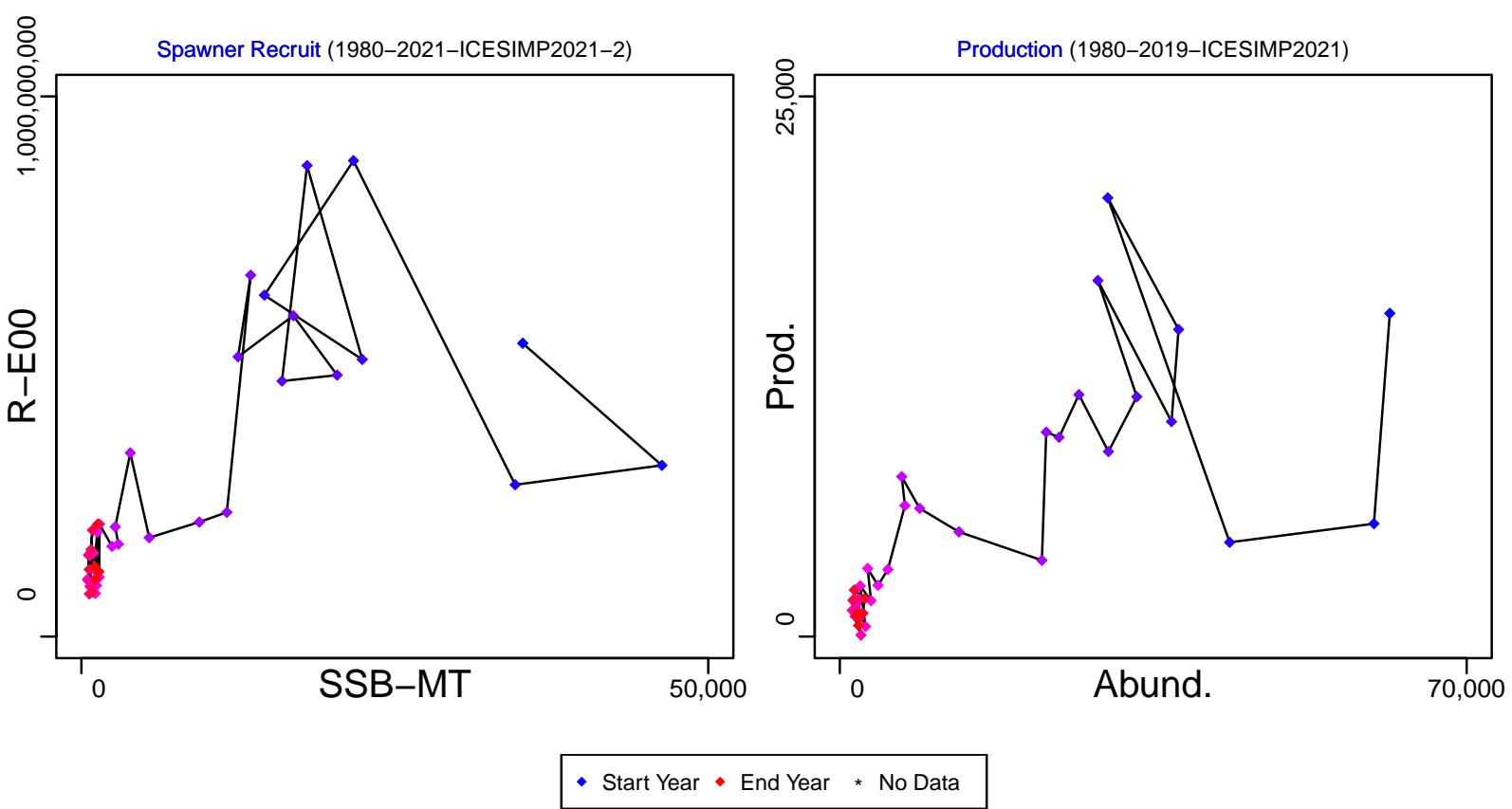
- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - - MSY | * No Data |

Whiting Irish Sea [WHITVIIa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIa-1980-2021-ICESIMP2021-2
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2017, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.219
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.219
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	10,000
Flim	Flim-1/yr	2021	0.371
ERlim	-	-	-

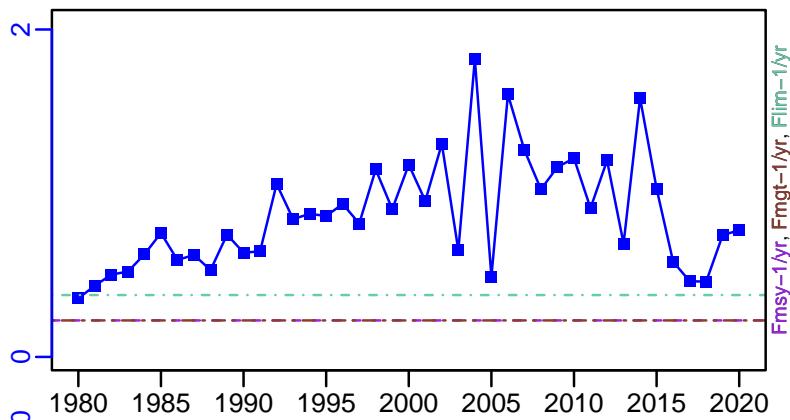
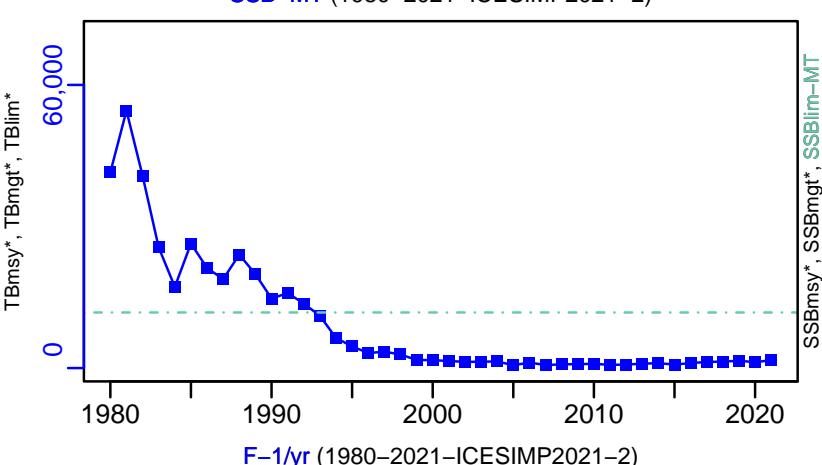
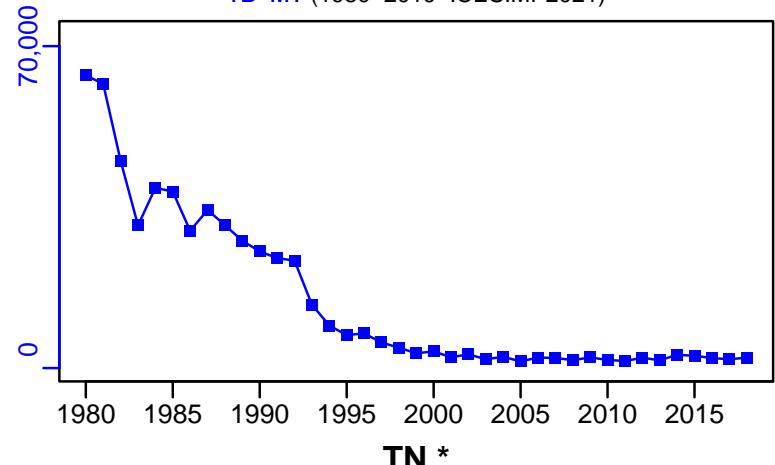
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2019	2175	-	-	
SSB	SSB-MT	2021	1390	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	1.2×10^8	-	0	
F	F-1/yr	2021	0.759	-	-	
ER	ER-calc-ratio	2019	0.413	-	-	
TC	TC-MT	2021	1120			
TL	TL-MT	2021	88			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	3.468			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	3.468			
ER/ERmgt	-	-	-			

Kobe MSY***Kobe MGT***

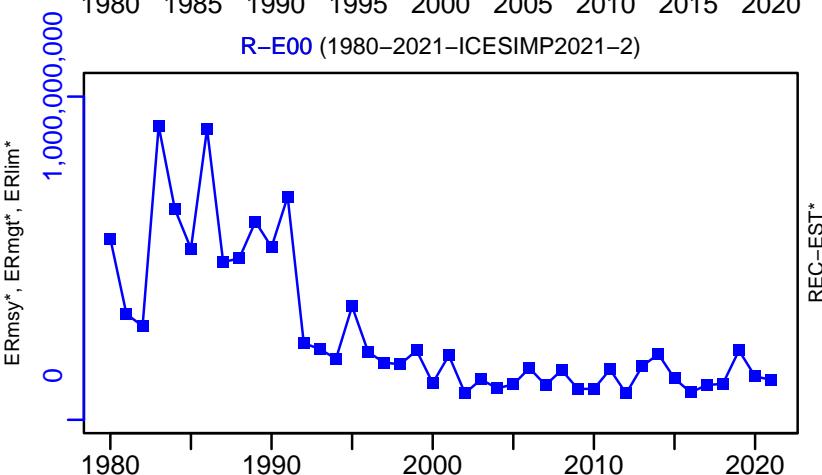
Whiting Irish Sea [WHITVIIa]

TB-MT (1980–2019–ICESIMP2021)

SSB-MT (1980–2021–ICESIMP2021–2)



ER-calc-ratio (1980–2019–ICESIMP2021)

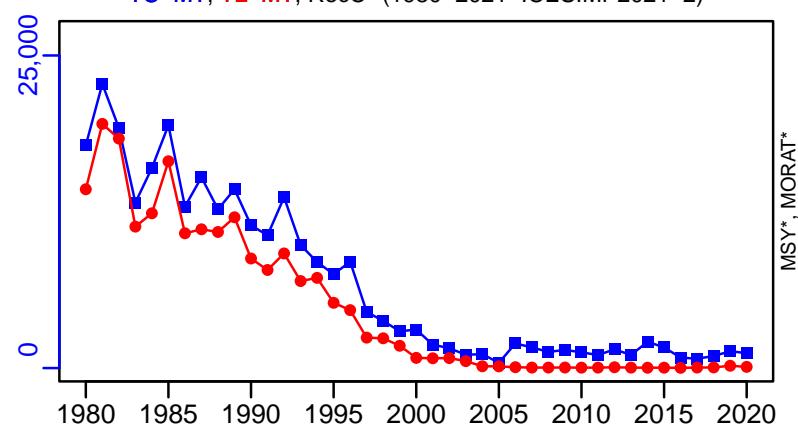


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Whiting Irish Sea [WHITVIIa]

TC-MT, TL-MT, RecC* (1980–2021–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |

Whiting Celtic Sea [WHITVIIbce-k]

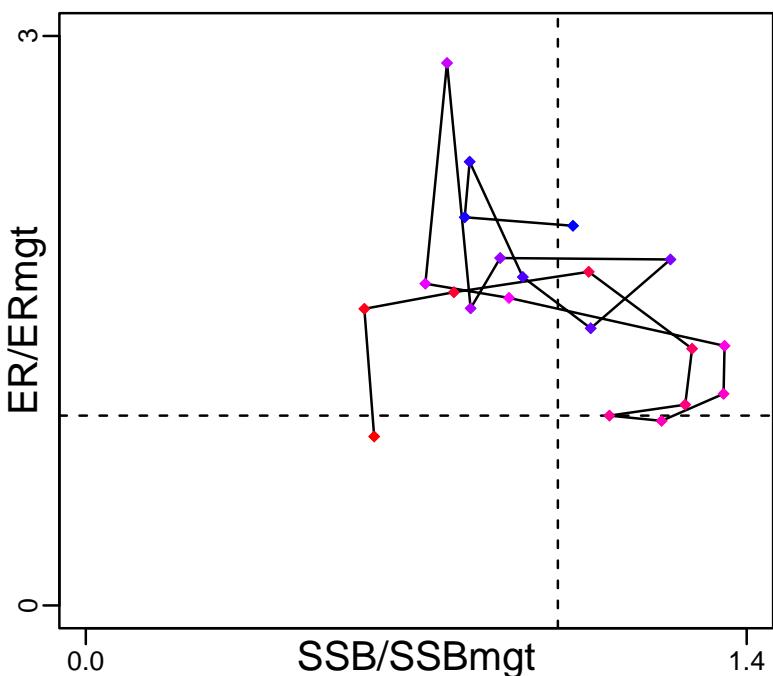
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCE-WHITVIIbce-k-1999-2023-ICESIMP2024
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2019, 2020, 2022, 2023, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2023	0.375
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	47,963
Fmgt	Fmgt-1/yr	2023	0.375
ERmgt	ERmgt-ratio	2020	0.4
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	21,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2023	36,571
Flim	Flim-1/yr	2023	0.64
ERlim	ERlim-ratio	2020	0.89

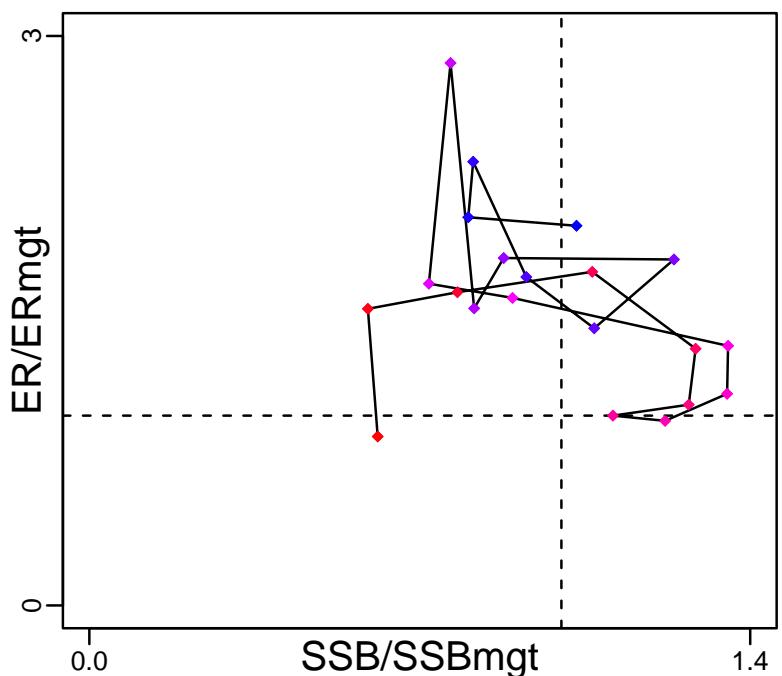
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	95,300	Both	-
SSB	SSB-MT	2023	29,740	-	-
TN	-	-	-	-	-
R	R-E00	2023	387,753	-	0
F	F-1/yr	2023	0.659	-	2 to 5
ER	ER-ratio	2020	0.356	-	-
TC	TC-MT	2023	7577		
TL	TL-MT	2023	5115		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2023	1.757		
ER/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	0.646		
F/Fmgt	F-1/yr/Fmgt-1/yr	2023	1.757		
ER/ERmgt	-	-	-		

Whiting Celtic Sea [WHITVIIbce–k]

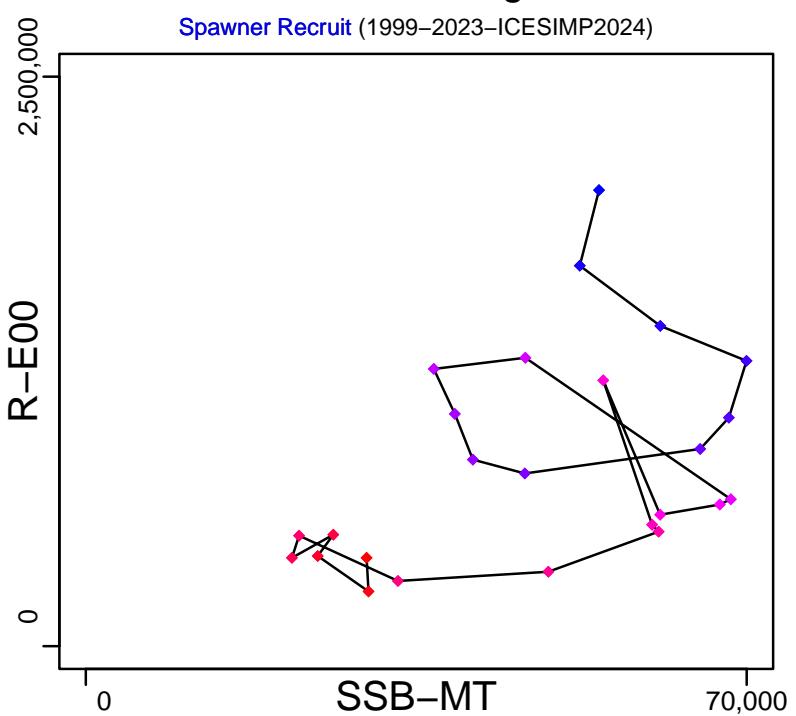
Kobe MSYpref (1999–2020–ICESIMP2021–2)



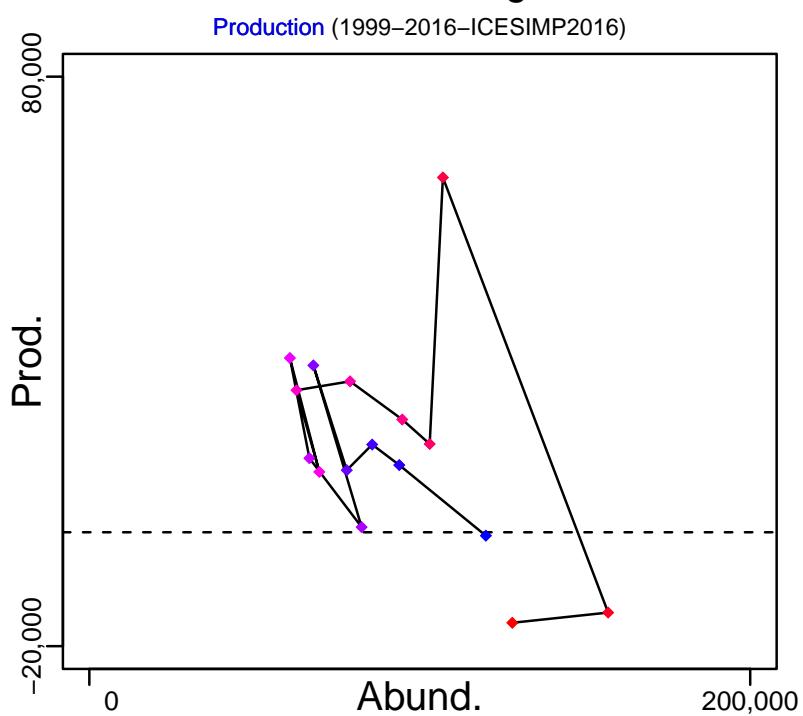
Kobe MGTpref (1999–2020–ICESIMP2021–2)



Spawner Recruit (1999–2023–ICESIMP2024)



Production (1999–2016–ICESIMP2016)

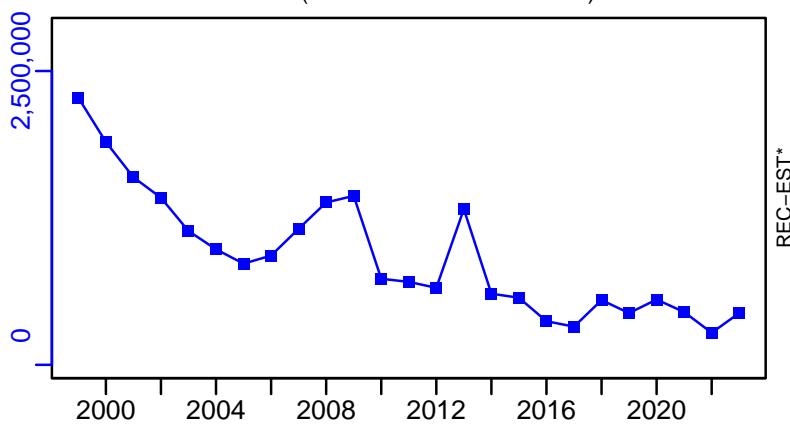
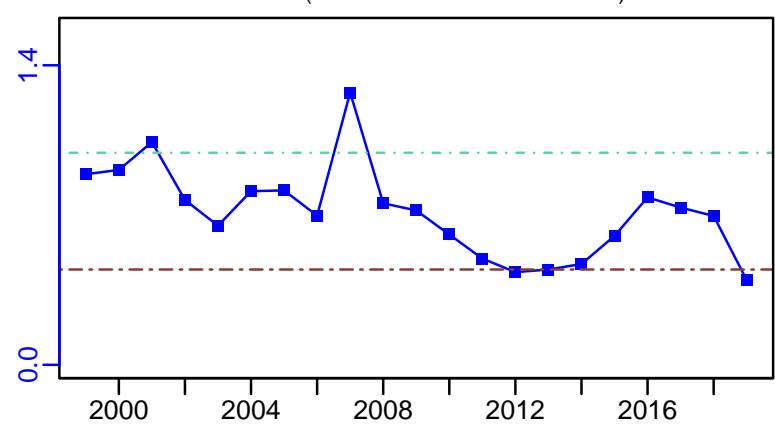
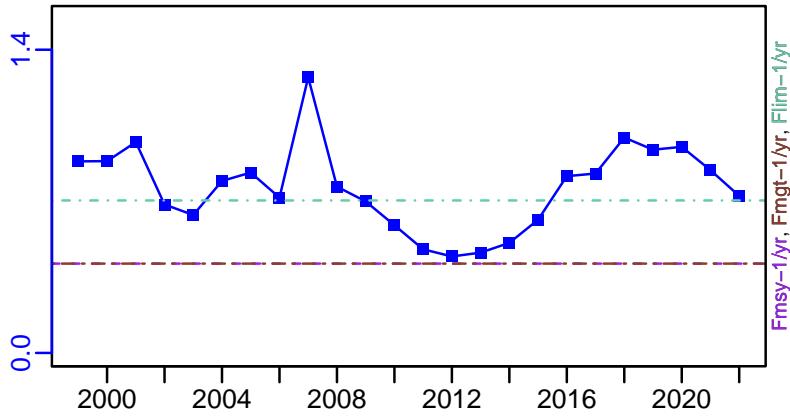
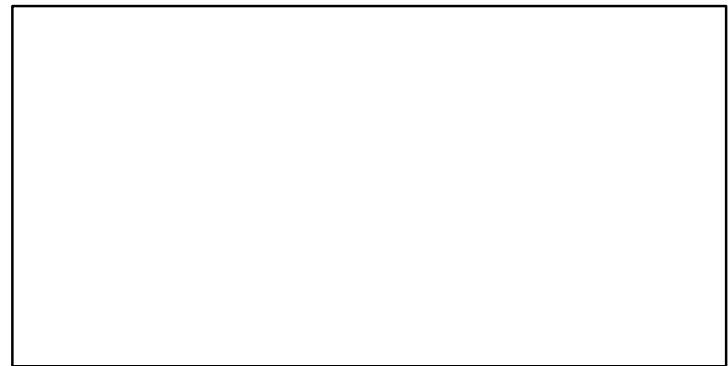
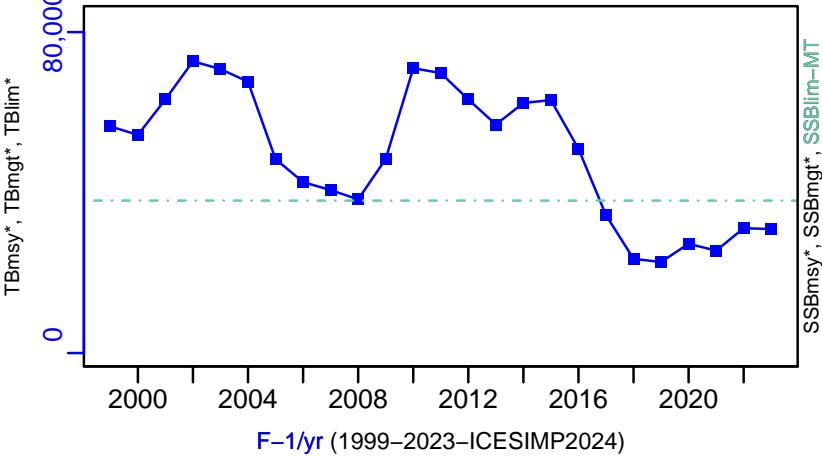
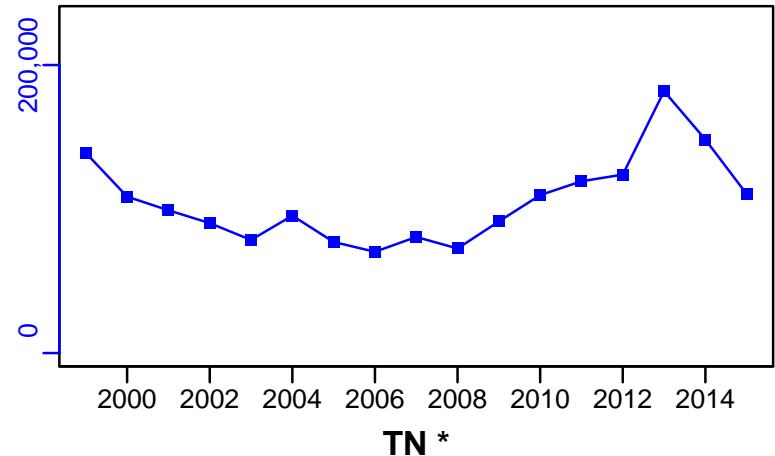


◆ Start Year ◆ End Year * No Data

Whiting Celtic Sea [WHITVIIbce–k]

TB-MT (1999–2016–ICESIMP2016)

SSB-MT (1999–2023–ICESIMP2024)

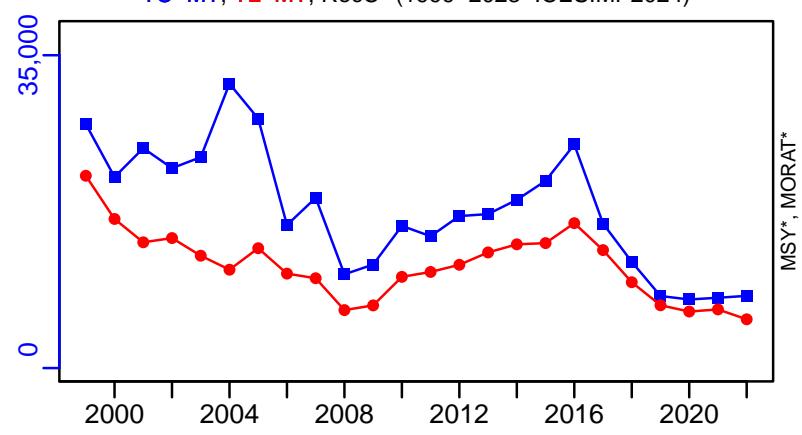


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Whiting Celtic Sea [WHITVIIbce–k]

TC-MT, TL-MT, RecC* (1999–2023–ICESIMP2024)

TAC*, Cpair*, Cadv*



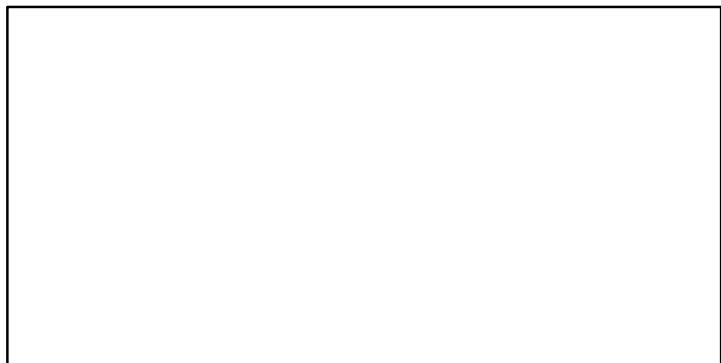
survB*

MSY*, MORAT*

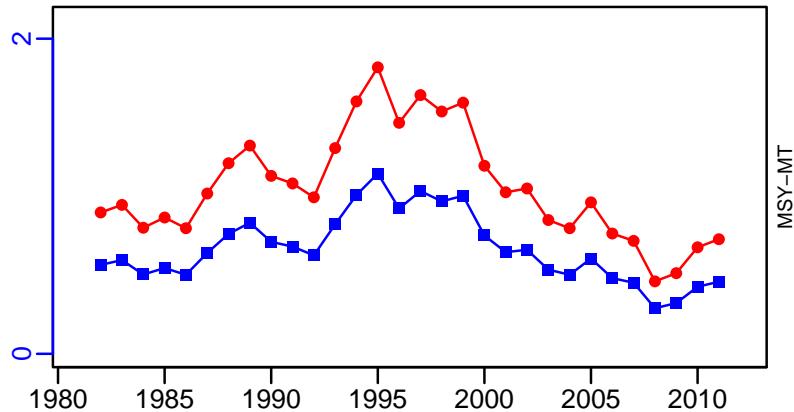
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1981–2012–CHING)



MSY-MT

■ 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-1994-2020-ICESIMP2021-2
Area	ICES 8-9a
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2015, 2016, 2016, 2018, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	1420		
TL	TL-MT	2020	1120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

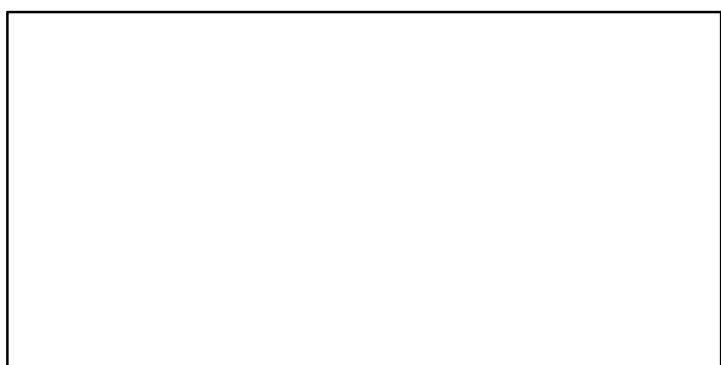
TB*



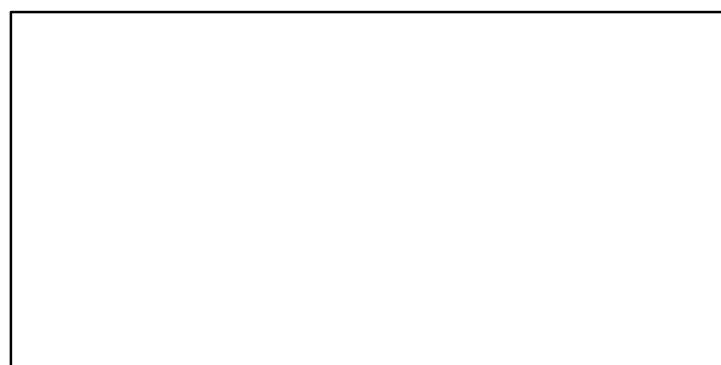
SSB*



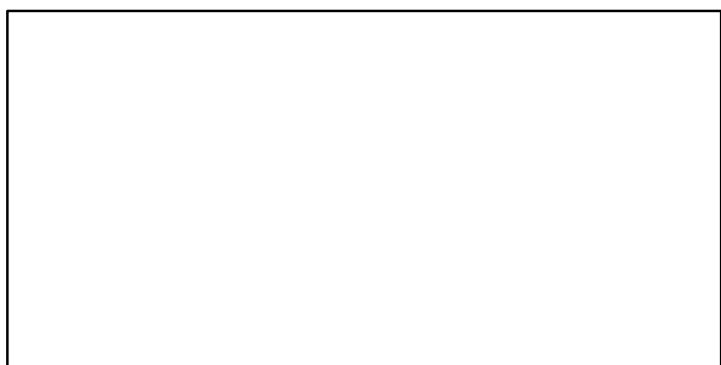
TN *



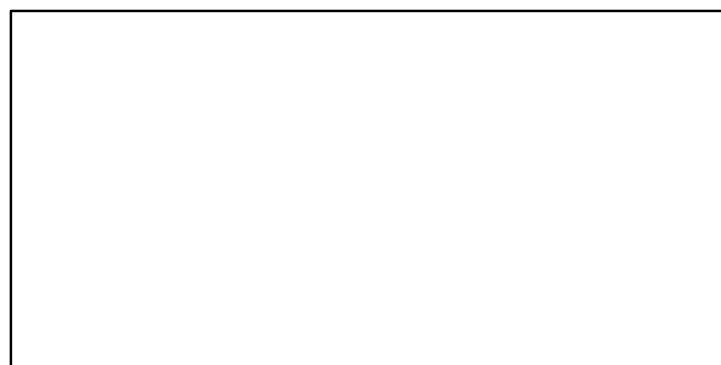
F*



ER*



Recruits*

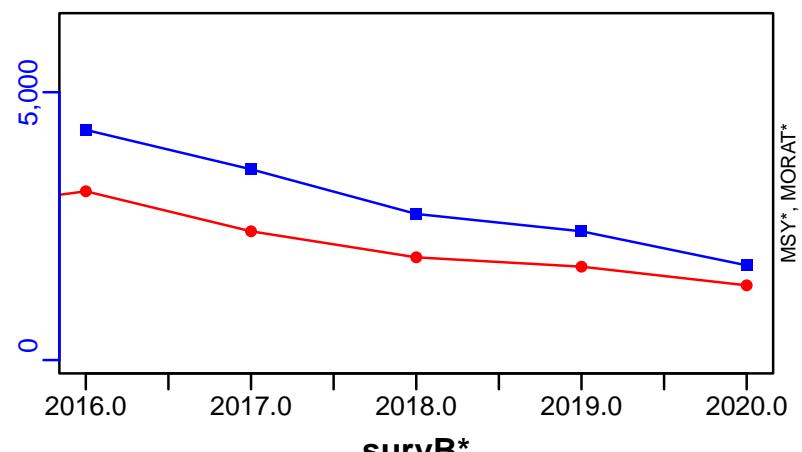


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Whiting ICES 8–9a [WHITVIII–IXa]

TC–MT, TL–MT, RecC* (1994–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

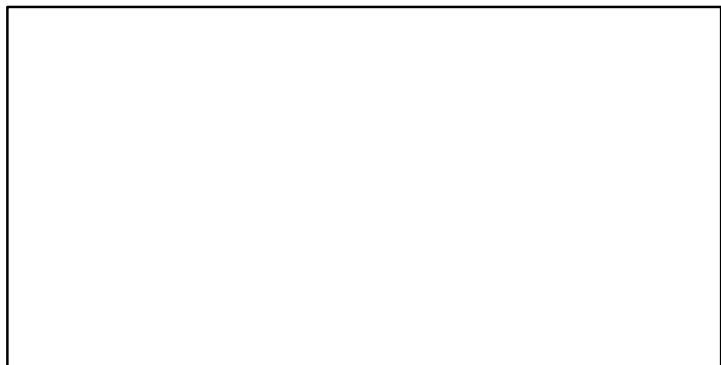
MSY*, MORAT*



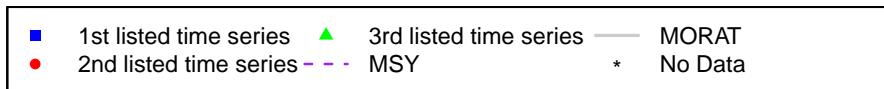
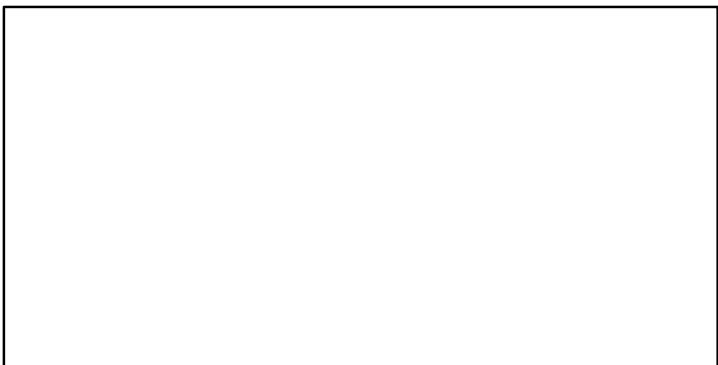
CPUE*



EFFORT*



CdivMSY*



Witch flounder ICES 3a-4-7d [WITFLOUNIIIa-IV-VIId]

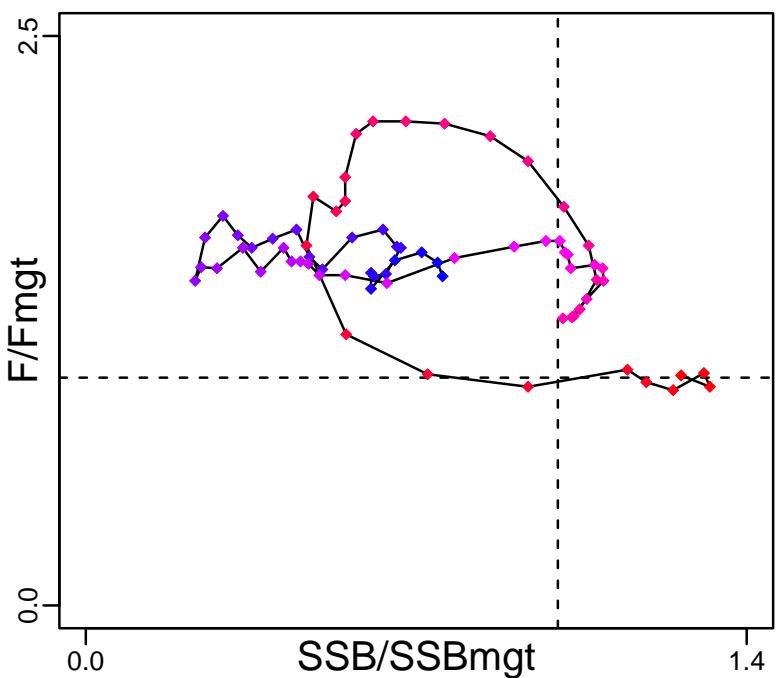
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	WGNSSK-WITFLOUNIIIa-IV-VIId-1950-2020-ICESIMP2021-2
Area	ICES 3a-4-7d
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2019, 2020, 2015, 2016

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2020	4750	
Fmgt	Fmgt-1/yr	2020	0.2	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2020	3070	
Flim	Flim-1/yr	2020	0.3	
ERlim	-	-	-	

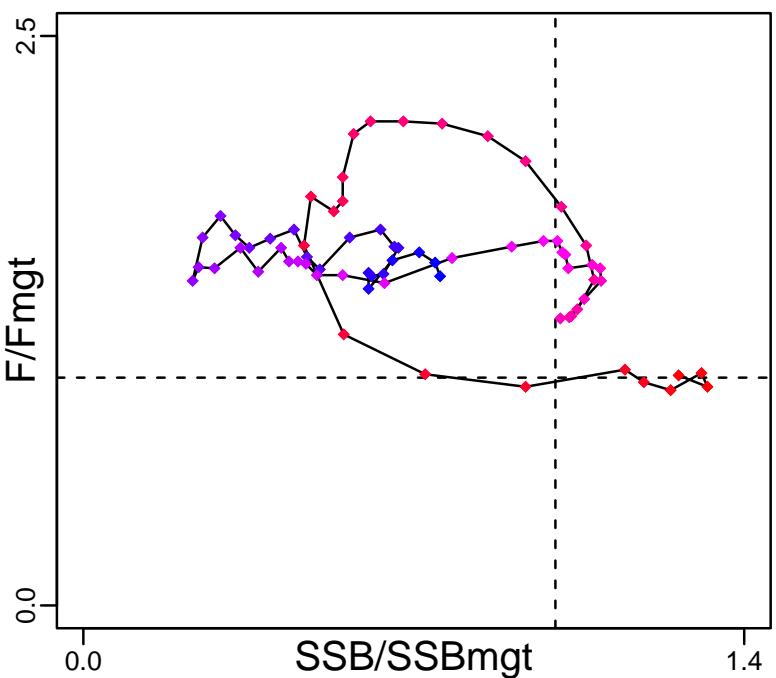
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2020	5600	-	-	
TN	-	-	-	-	-	
R	R-E00	2020	24,700,000	-	1	
F	F-1/yr	2020	0.202	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2020	2800			
TL	TL-MT	2020	2580			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.179			
F/Fmgt	F-1/yr/Fmgt-1/yr	2020	1.01			
ER/ERmgt	-	-	-			

Witch flounder ICES 3a–4–7d [WITFLOUNIIla–IV–VIIId]

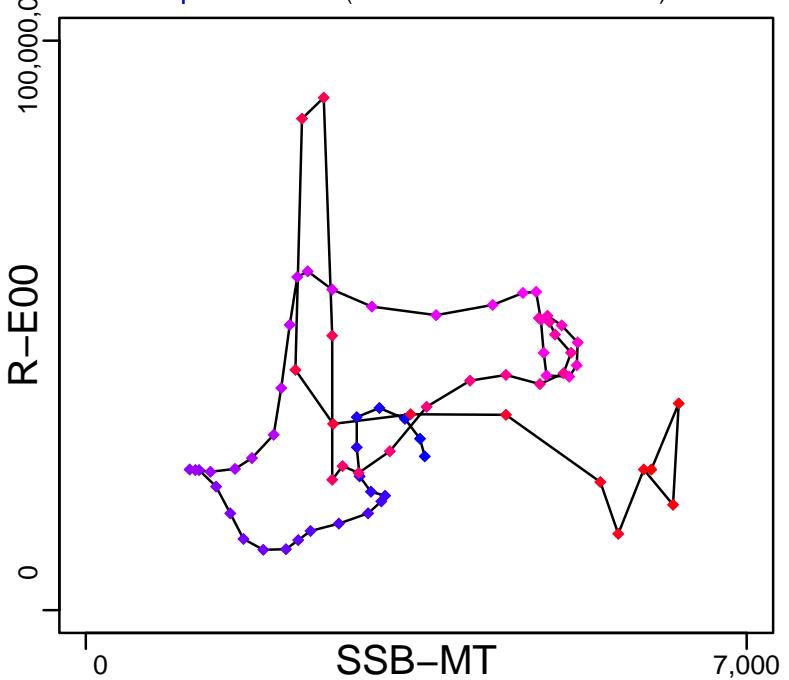
Kobe MSYpref (1950–2020–ICESIMP2021–2)



Kobe MGTpref (1950–2020–ICESIMP2021–2)



Spawner Recruit (1950–2020–ICESIMP2021–2)



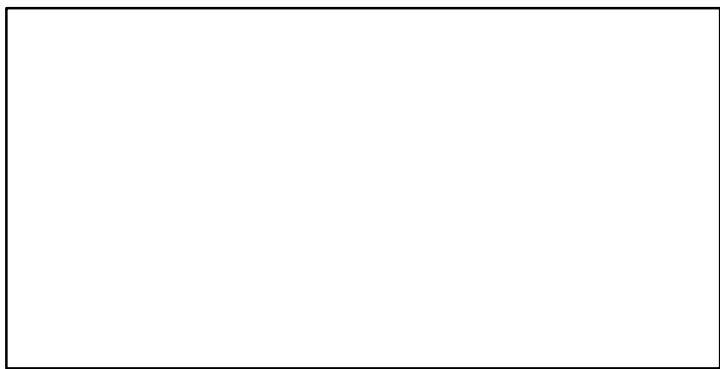
Production*



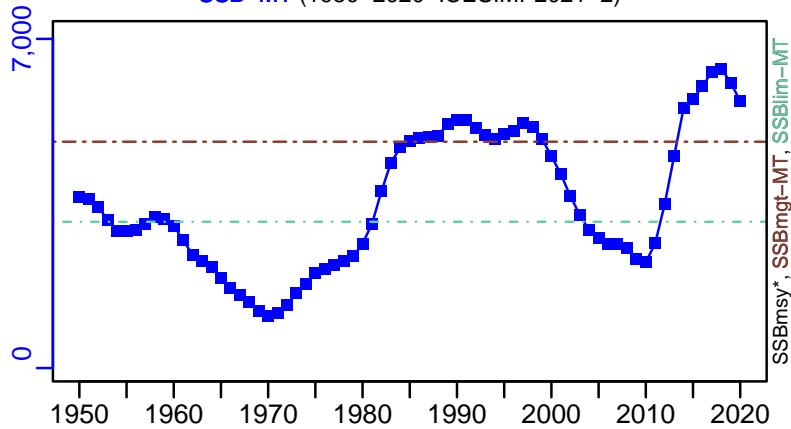
◆ Start Year ◆ End Year * No Data

Witch flounder ICES 3a–4–7d [WITFLOUNIIla–IV–VIIId]

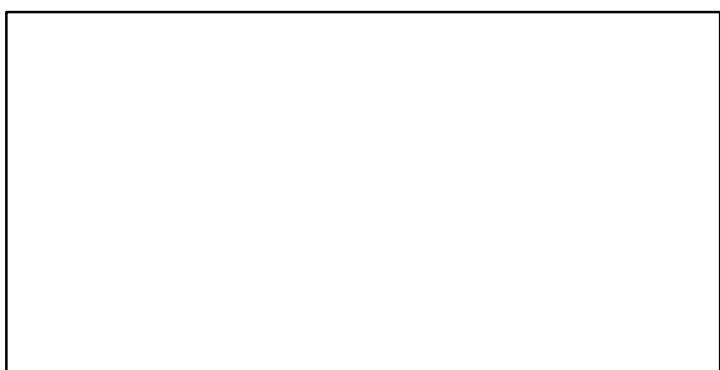
TB*



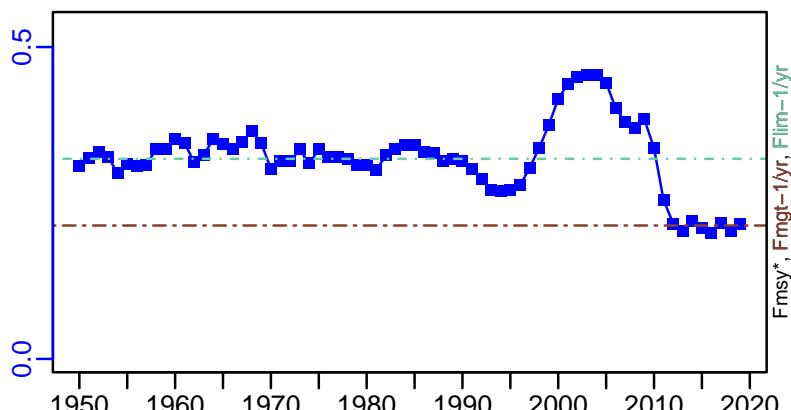
SSB-MT (1950–2020–ICESIMP2021–2)



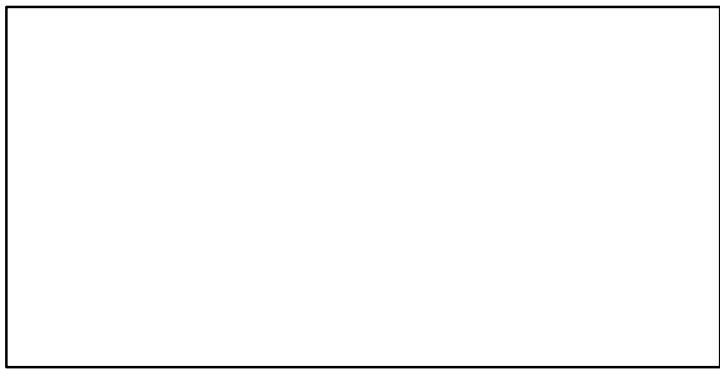
TN *



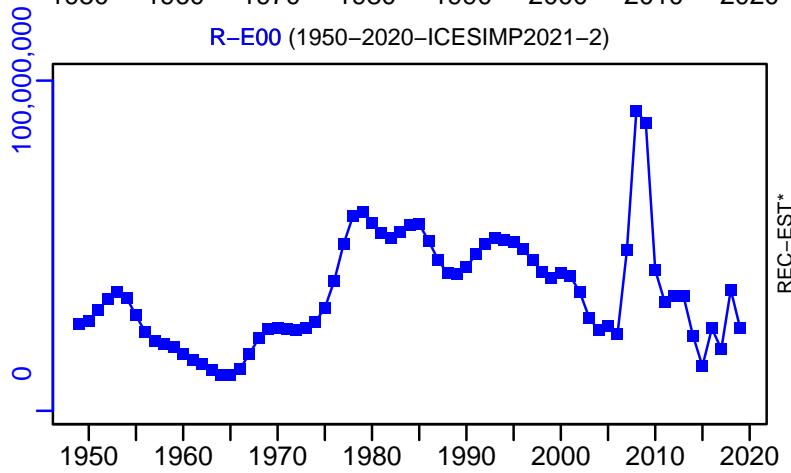
F-1/yr (1950–2020–ICESIMP2021–2)



ER*



R-E00 (1950–2020–ICESIMP2021–2)

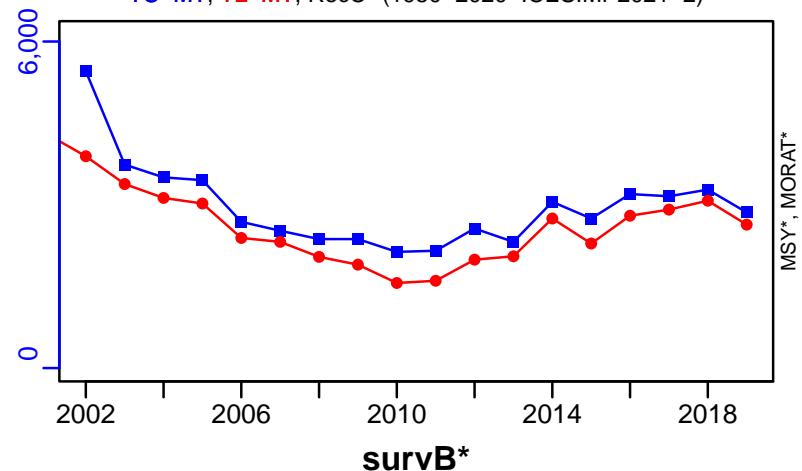


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

Witch flounder ICES 3a–4–7d [WITFLOUNIIla–IV–VIIId]

TC–MT, TL–MT, RecC* (1950–2020–ICESIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

- | | | |
|--------------------------|--------------------------|-----------|
| ■ 1st listed time series | ▲ 3rd listed time series | — MORAT |
| ● 2nd listed time series | - - MSY | * No Data |