

European Union Stocks

v4.44 (Dec-21-2018)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ANCHIXa [Anchovy Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
2. ANCHOBAYB [Anchovy ICES VIII]	TB SSB	ER F	TB SSB	ER F	
3. ANGLVIIIc-IXa [Black bellied angler VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F	
4. ANGLVII-VIIIabd [Black bellied angler VII and VIIIabd]	TB SSB	ER F	TB SSB	ER F	
5. ASHARNEATL [Angel shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
6. BERYXSPPNEATL [Beryx spp Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
7. BJMACKXa2 [Blue jack mackerel Azores (Xa2)]	TB SSB	ER F	TB SSB	ER F	
8. BKSFNATL [Black scabbardfish Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
9. BLINGI-II-IIIa-IVa-VIII-IX-XII [Blue ling I-II-IIIa-IVa-VIII-IX-XII]	TB SSB	ER F	TB SSB	ER F	
10. BLRAYIVa-VI [Blonde ray IVa and VI]	TB SSB	ER F	TB SSB	ER F	
11. BLRAYIVc-VIId [Blonde ray IVc and VIId]	TB SSB	ER F	TB SSB	ER F	
12. BLRAYIXa [Blonde ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
13. BLRAYVIIafg [Blonde ray ICES VIIafg]	TB SSB	ER F	TB SSB	ER F	
14. BLRAYVIIe [Blonde ray Western English Channel]	TB SSB	ER F	TB SSB	ER F	
15. BMDOGVIII-IXa [Blackmouth dogfish VIII and IXa]	TB SSB	ER F	TB SSB	ER F	
16. BMDOGVI-VII [Blackmouth dogfish ICES VI-VII]	TB SSB	ER F	TB SSB	ER F	
17. BOARVI-VIII [Boarfish VI and VIII]	TB SSB	ER F	TB SSB	ER F	
18. BRILL2232 [Brill Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
19. BRILLIIIa-IV-VIId [Brill IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F	
20. BSKSHARNEATL [Basking shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
21. BWHITNEA [Blue Whiting Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
22. CKRAYIIIa-IV [Cuckoo ray IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F	
23. CKRAYIXa [Cuckoo ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
24. CKRAYVIIIc [Cuckoo ray Bay of Biscay -South]	TB SSB	ER F	TB SSB	ER F	
25. CKRAYVI-VII [Cuckoo ray ICES VI-VII]	TB SSB	ER F	TB SSB	ER F	
26. CODBA2224 [Atlantic cod Baltic Areas 22 and 24]	TB SSB	ER F	TB SSB	ER F	
27. CODBA2532 [Atlantic cod Baltic Areas 25-32]	TB SSB	ER F	TB SSB	ER F	
28. CODIIIaW-IV-VIId [Atlantic cod IIIa (west) and IV-VIId]	TB SSB	ER F	TB SSB	ER F	
29. CODIS [Atlantic cod Irish Sea]	TB SSB	ER F	TB SSB	ER F	
30. CODKAT [Atlantic cod Kattegat]	TB SSB	ER F	TB SSB	ER F	
31. CODVIa [Atlantic cod West of Scotland]	TB SSB	ER F	TB SSB	ER F	
32. CODVIb [Atlantic cod Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
33. CODVIIek [Atlantic Cod Celtic Sea]	TB SSB	ER F	TB SSB	ER F	
34. CUSKNEATL [Tusk Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
35. CUSKV a-XIV [Tusk Va and XIV]	TB SSB	ER F	TB SSB	ER F	
36. CUSKVIb [Tusk Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
37. CUSKXII [Tusk North of Azores]	TB SSB	ER F	TB SSB	ER F	
38. DAB2232 [Dab Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
39. DABIIIa-IV [Dab IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F	

40. EBASSIVbc-VII [European seabass IVbc and VII]	TB SSB	ER F	TB SSB	ER F
41. EBASSVIa-VIIb-j [European seabass VIa and VIIb-j]	TB SSB	ER F	TB SSB	ER F
42. EBASSVIIIab [European seabass VIIIab]	TB SSB	ER F	TB SSB	ER F
43. EBASSVIIIc-IXa [European seabass VIIIc and IXa]	TB SSB	ER F	TB SSB	ER F
44. EFLOUN2223 [European flounder Subdivisions 22-23]	TB SSB	ER F	TB SSB	ER F
45. EFLOUN2425 [European flounder Subdivisions 24-25]	TB SSB	ER F	TB SSB	ER F
46. EFLOUN26-28 [European flounder Subdivisions 26-28]	TB SSB	ER F	TB SSB	ER F
47. EFLOUN27-2932 [European flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F
48. EFLOUNIIIa-IV [European flounder IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F
49. EPOLLIV-IIIa [European pollack IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F
50. EPOLLVIII-IXa [European pollack VIII and IXa]	TB SSB	ER F	TB SSB	ER F
51. FMEG8c9a [Fourspotted megrim ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
52. GFORKNEATL [Greater forkbeard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
53. GGURNIIIa-IV-VIId [Grey gurnard IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
54. GHALV-VI-XII-XIV [Greenland halibut V-VI-XII-XIV]	TB SSB	ER F	TB SSB	ER F
55. GOLDREDV-VI-XII-XIV [Golden Redfish V-VI-XII-XIV]	TB SSB	ER F	TB SSB	ER F
56. GSSMELTI-II-IIIa-IV [Greater silver smelt ICES I-II-IIIa-IV]	TB SSB	ER F	TB SSB	ER F
57. GSSMELTVIb-VII-VIII-IX-X-XII [Greater silver smelt ICES VIb-VII-VIII-IX-X-XII]	TB SSB	ER F	TB SSB	ER F
58. HADIS [Haddock Irish Sea]	TB SSB	ER F	TB SSB	ER F
59. HADNS-IIIa-VIa [Haddock North Sea and IIIa-VIa]	TB SSB	ER F	TB SSB	ER F
60. HADROCK [Haddock Rockall Bank]	TB SSB	ER F	TB SSB	ER F
61. HADVIIb-k [Haddock ICES VIIb-k]	TB SSB	ER F	TB SSB	ER F
62. HAKENRTN [Hake Northeast Atlantic North]	TB SSB	ER F	TB SSB	ER F
63. HAKESOTH [Hake Northeast Atlantic South]	TB SSB	ER F	TB SSB	ER F
64. HERR2224IIIa [Herring ICES 22-24-IIIa]	TB SSB	ER F	TB SSB	ER F
65. HERR2529-32 [Herring Subdivisions 25-29 and 32]	TB SSB	ER F	TB SSB	ER F
66. HERR30-31 [Herring Subdivisions 30-31]	TB SSB	ER F	TB SSB	ER F
67. HERRNIRS [Herring Northern Irish Sea]	TB SSB	ER F	TB SSB	ER F
68. HERRNS-IIIa-VIId [Herring IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
69. HERRRIGA [Herring ICES 28]	TB SSB	ER F	TB SSB	ER F
70. HERRSIRS [Herring ICES VIIa-g-h-j]	TB SSB	ER F	TB SSB	ER F
71. HERRVIa [Herring ICES VIa]	TB SSB	ER F	TB SSB	ER F
72. HERRVIaVIIbc [Herring ICES VIa-VIIb-VIIc]	TB SSB	ER F	TB SSB	ER F
73. HMACKIIa-IVa-Vb-VIa-VII-VIII [Horse mackerel IIa-IVa-Vb-VIa-VII-VIII]	TB SSB	ER F	TB SSB	ER F
74. HMACKIIIa-IVbc-VIId [Horse mackerel IIIa-IVbc-VIId]	TB SSB	ER F	TB SSB	ER F
75. HMACKIXa [Horse mackerel Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
76. KFSHARNEATL [Kitefin shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
77. LGSHARNEATL [Leafscale gulper shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
78. LINGNEATL [Ling Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
79. LINGVa [Ling Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
80. LSDOGIIIa-IV-VIId [Lesser spotted dogfish IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
81. LSDOGVIIIabd [Lesser spotted dogfish ICES VIIIabd]	TB SSB	ER F	TB SSB	ER F
82. LSDOGVIIIc-IXa [Lesser spotted dogfish VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
83. LSDOGVI-VIIabcefg hij [Lesser spotted dogfish ICES VI-VIIabcefg hij]	TB SSB	ER F	TB SSB	ER F
84. LSOLEIIIa-IV-VIId [Lemon sole IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
85. MACKNEICES [Mackerel ICES Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
86. MEG8c9a [Megrim ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F

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

132. PLAICVIIh-k [European Plaice VIIh-k]	TB SSB	ER F	TB SSB	ER F
133. PLAICVIII-IXa [European Plaice VIII and IXa]	TB SSB	ER F	TB SSB	ER F
134. POLLNS-VI-IIIa [Pollock ICES IIIa, VI and North Sea]	TB SSB	ER F	TB SSB	ER F
135. PORSHARNEATL [Porbeagle shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
136. RBRMIX [Red seabream IX]	TB SSB	ER F	TB SSB	ER F
137. RBRMVI-VII-VIII [Red seabream VI-VII-VIII]	TB SSB	ER F	TB SSB	ER F
138. RBRMX [Red seabream Azores Grounds]	TB SSB	ER F	TB SSB	ER F
139. REDDEEPXIVb [Beaked Redfish Southeast Greenland]	TB SSB	ER F	TB SSB	ER F
140. RGURNNEATL [Red gurnard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
141. RHGRENNEATL [Roughhead grenadier Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
142. RNGENI-II-IV-Va2-VIII-IX-XIVab2 [Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2]	TB SSB	ER F	TB SSB	ER F
143. RNGENMATLR [Roundnose grenadier Mid-Atlantic Ridge]	TB SSB	ER F	TB SSB	ER F
144. RGENVb-VI-VII-XIIb [Roundnose grenadier Vb-VI-VII-XIIb]	TB SSB	ER F	TB SSB	ER F
145. RNGRENIIIa [Roundnose grenadier Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
146. SARDPVIIIc-IXa [European pilchard ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
147. SARDVII [Sardine ICES VII]	TB SSB	ER F	TB SSB	ER F
148. SARDVIIIabd [Sardine ICES VIIIabd]	TB SSB	ER F	TB SSB	ER F
149. SDRAYVI-VII [Sandy ray ICES VI-VII]	TB SSB	ER F	TB SSB	ER F
150. SEELNSSA1 [Sand eel SA 1]	TB SSB	ER F	TB SSB	ER F
151. SEELNSSA2 [Sand eel SA 2]	TB SSB	ER F	TB SSB	ER F
152. SEELNSSA3 [Sand eel SA 3]	TB SSB	ER F	TB SSB	ER F
153. SEELNSSA4 [Sand eel Sandeel Area 4]	TB SSB	ER F	TB SSB	ER F
154. SEELNSSA5 [Sand eel SA 5]	TB SSB	ER F	TB SSB	ER F
155. SEELNSSA6 [Sand eel SA 6]	TB SSB	ER F	TB SSB	ER F
156. SEELNSSA7 [Sand eel SA 7]	TB SSB	ER F	TB SSB	ER F
157. SEELVIa [Sand eel West of Scotland]	TB SSB	ER F	TB SSB	ER F
158. SERAYVIIde [Smalleyed ray VIIde]	TB SSB	ER F	TB SSB	ER F
159. SERAYVII-f-g [Smalleyed ray Celtic Sea]	TB SSB	ER F	TB SSB	ER F
160. SGRAYVI-VII [Shagreen ray ICES VI-VII]	TB SSB	ER F	TB SSB	ER F
161. SHSPNEATL [Smooth-hound Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
162. SOLECS [Common sole Celtic Sea]	TB SSB	ER F	TB SSB	ER F
163. SOLEIIIIa-2224 [Common sole 22-24-IIIIa]	TB SSB	ER F	TB SSB	ER F
164. SOLEIS [Common sole Irish Sea]	TB SSB	ER F	TB SSB	ER F
165. SOLENS [Common sole North Sea]	TB SSB	ER F	TB SSB	ER F
166. SOLEVIIbc [Common sole VIIbc]	TB SSB	ER F	TB SSB	ER F
167. SOLEVIIId [Common sole ICES VIIId]	TB SSB	ER F	TB SSB	ER F
168. SOLEVIIe [Common sole Western English Channel]	TB SSB	ER F	TB SSB	ER F
169. SOLEVIIh-k [Common sole VIIh-k]	TB SSB	ER F	TB SSB	ER F
170. SOLEVIIIab [Common sole VIIIab]	TB SSB	ER F	TB SSB	ER F
171. SOLEVIIIc-IXa [Common sole VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
172. SPRAT22-32 [Sprat ICES Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
173. SPRATIIIIa [Sprat Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
174. SPRATNS [Sprat North Sea]	TB SSB	ER F	TB SSB	ER F
175. SPRATVIIde [Sprat VIIde]	TB SSB	ER F	TB SSB	ER F
176. SPRATVI-VIIabcfghijk [Sprat VI and VIIabcfghijk]	TB SSB	ER F	TB SSB	ER F
177. SPRAYIIIIa-IV-VIIId [Spotted ray IIIIa, VIIId and North Sea]	TB SSB	ER F	TB SSB	ER F
178. SPRAYIXa [Spotted ray Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
179. SPRAYVIIaefgh [Spotted ray ICES VIIaefgh]	TB SSB	ER F	TB SSB	ER F

180. SPRAYVIII [Spotted ray Bay of Biscay]	TB SSB	ER F	TB SSB	ER F
181. SPRAYVI-VIIbj [Spotted ray ICES VI-VIIbj]	TB SSB	ER F	TB SSB	ER F
182. SPURDNEATL [Spurdog Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
183. STRAYII-IIIa-IV [Starry ray ICES II-IIIa-IV]	TB SSB	ER F	TB SSB	ER F
184. STRMULLIIa-IV-VIId [Striped red mullet IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
185. STRMULLVI-VIIlabcefgghijk-VIII-IXa [Striped red mullet ICES VI-VIIlabcefgghijk-VIII-IXa]	TB SSB	ER F	TB SSB	ER F
186. STROUT22-32 [Sea trout Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
187. TBSKAIIIIa-IV-VIId [Thornback skate IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
188. TBSKAIXa [Thornback skate Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
189. TBSKAVI [Thornback skate ICES VI]	TB SSB	ER F	TB SSB	ER F
190. TBSKAVIIafg [Thornback skate ICES VIIafg]	TB SSB	ER F	TB SSB	ER F
191. TBSKAVIIe [Thornback skate Western English Channel]	TB SSB	ER F	TB SSB	ER F
192. TBSKAVIII [Thornback skate Bay of Biscay]	TB SSB	ER F	TB SSB	ER F
193. TPSHARNEATL [Tope shark Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
194. TUR2232 [Turbot Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
195. TURIIIIa [Turbot Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
196. TURIV [Turbot North Sea]	TB SSB	ER F	TB SSB	ER F
197. URAYVIIde [Undulate ray VIIde]	TB SSB	ER F	TB SSB	ER F
198. URAYVIIlab [Undulate ray VIIlab]	TB SSB	ER F	TB SSB	ER F
199. WANGLVIIIc-IXa [White anglerfish VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
200. WANGLVII-VIIIabd [White anglerfish VII and VIIIabd]	TB SSB	ER F	TB SSB	ER F
201. WHITIIIIa [Whiting Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
202. WHITNS-VIId [Whiting NS-VIId]	TB SSB	ER F	TB SSB	ER F
203. WHITVIa [Whiting ICES VIa]	TB SSB	ER F	TB SSB	ER F
204. WHITVIb [Whiting Rockall Bank]	TB SSB	ER F	TB SSB	ER F
205. WHITVIIa [Whiting Irish Sea]	TB SSB	ER F	TB SSB	ER F
206. WHITVIIek [Whiting ICES VIIe-k]	TB SSB	ER F	TB SSB	ER F
207. WHITVIII-IXa [Whiting VIII and IXa]	TB SSB	ER F	TB SSB	ER F
208. WITFLOUNIIIIa-IV-VIId [Witch flounder IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F

Anchovy Portuguese Waters -East [ANCHIXa]

Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHIXa-1989-2018-ICESIMP2018
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016, 2016, 2018, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	2362
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	1440
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	0.589	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2018	0.891	-	0 to 3
ER	ER-ratio	2016	0.253	-	-
TC	-	-	-		
TL	TL-MT	2016	9420		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

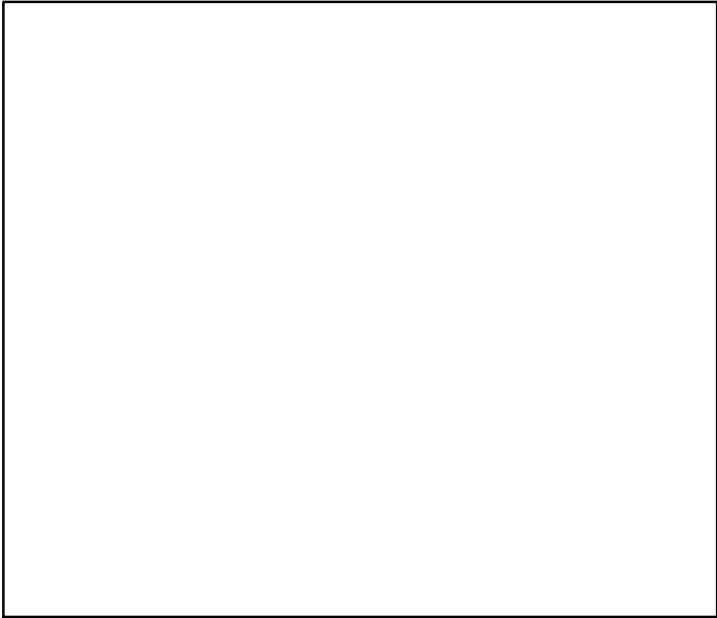
Kobe MSY*



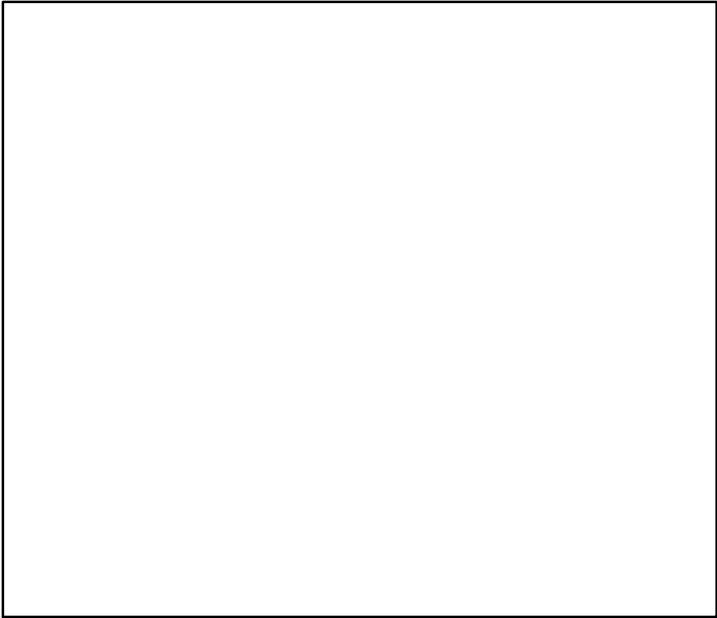
Kobe MGT*



Spawner Recruit*



Production*



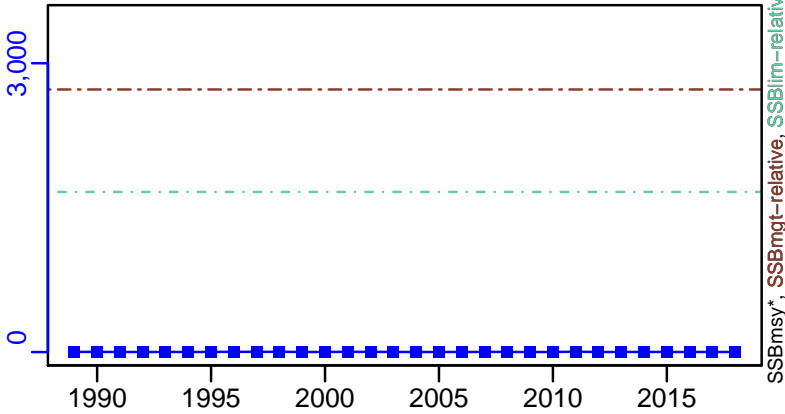
◆ Start Year ◆ End Year * No Data

Anchovy Portuguese Waters –East [ANCHIXa]

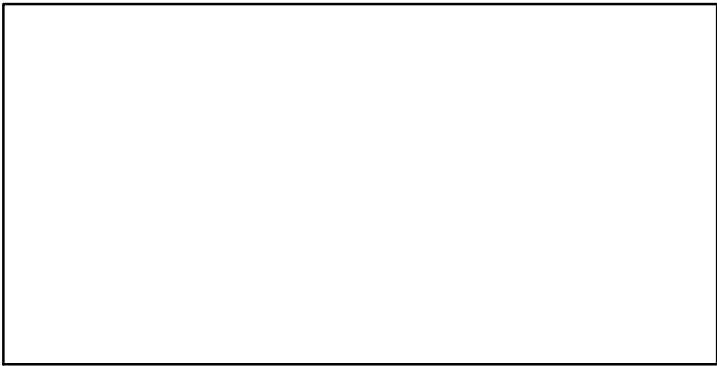
TB*



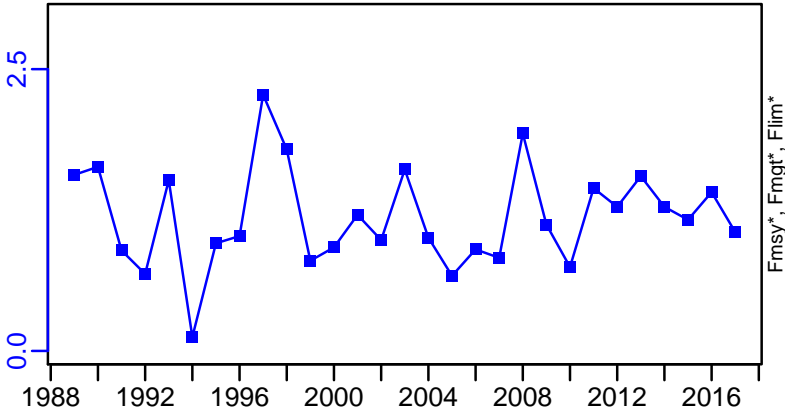
SSB-relative (1989–2018–ICESIMP2018)



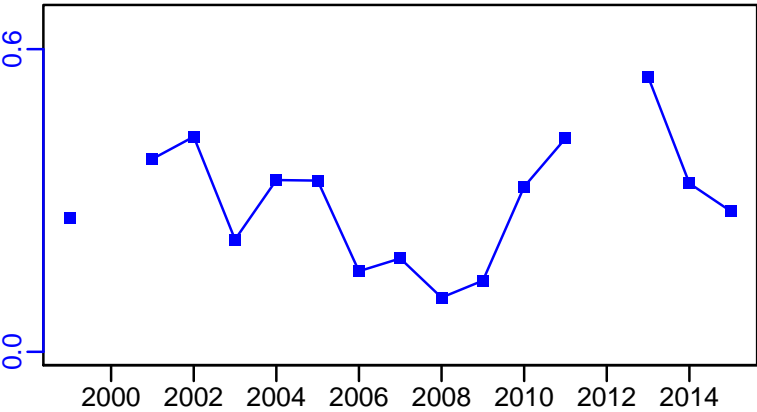
TN *



F-relative (1989–2018–ICESIMP2018)



ER-ratio (1989–2016–ICESIMP2016)

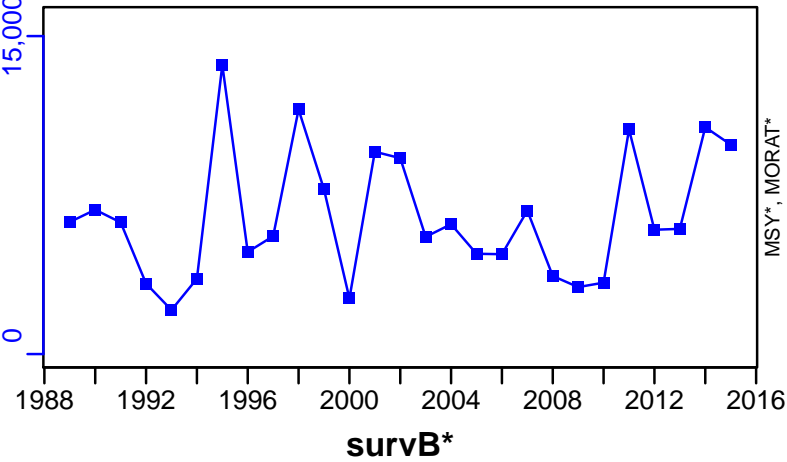


Recruits*

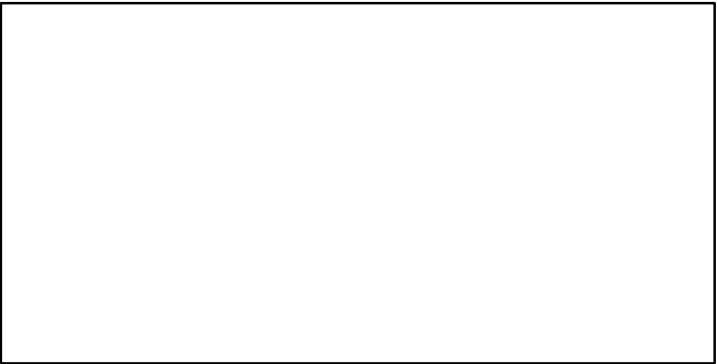


Anchovy Portuguese Waters –East [ANCHIXa]

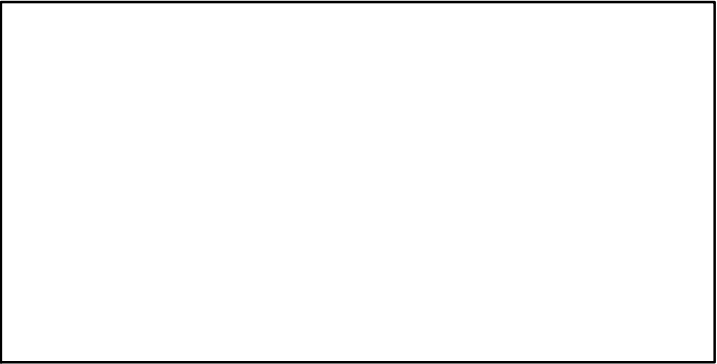
TL–MT, TC*, RecC* (1989–2016–ICESIMP2016)



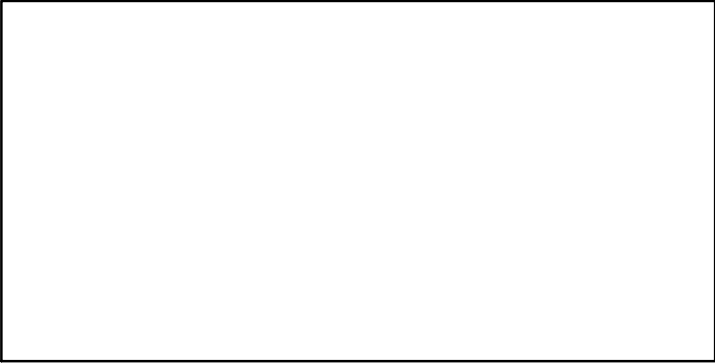
TAC*, Cpair*, Cadv*



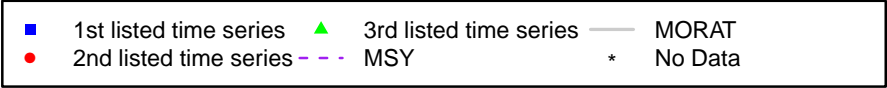
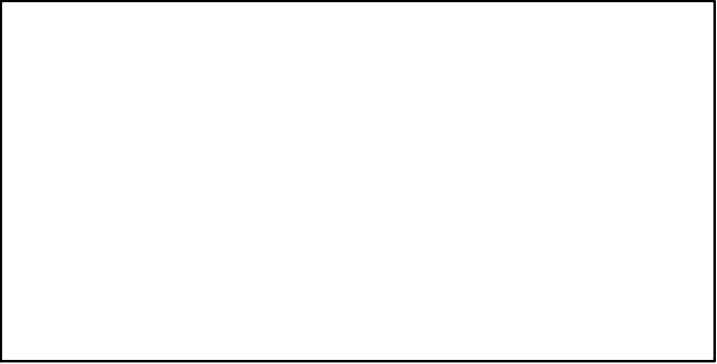
CPUE*



EFFORT*



CdivMSY*



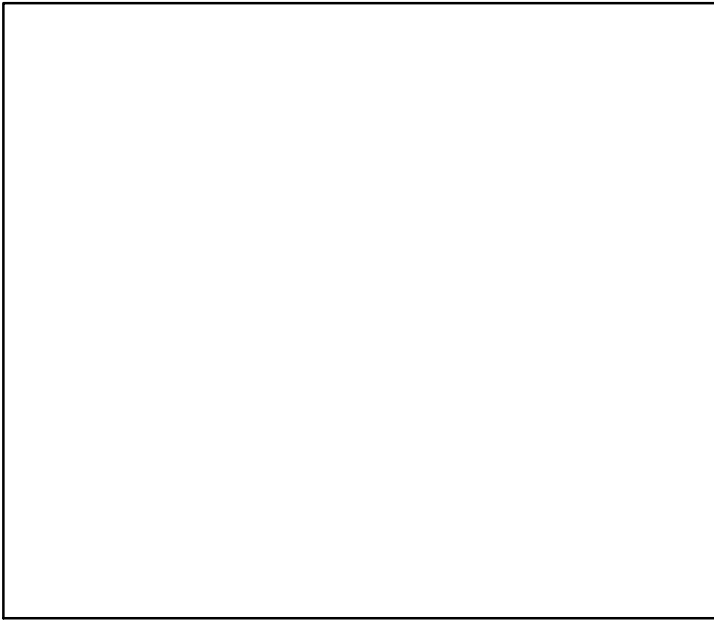
Anchovy ICES VIII [ANCHOBAYB]

Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHOBAYB-1986-2017-ICESIMP2018
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, 2007

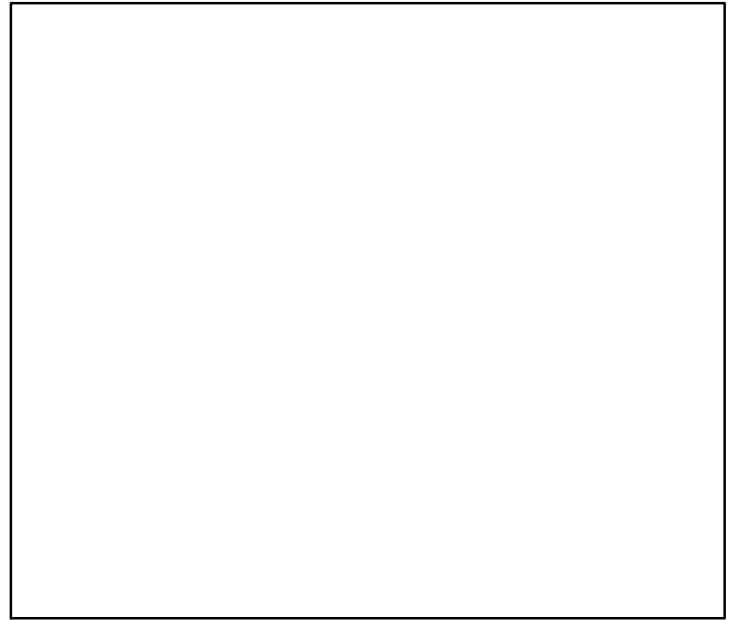
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	89,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	1.2
TBlim	TBlim-MT	2014	21,000
SSBlim	SSBlim-MT	2017	21,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	153,000	Both	-
SSB	SSB-MT	2017	102,000	Both	-
TN	-	-	-	-	-
R	R-MT	2017	98,700	-	1
F	F-1/yr	2014	0.222	-	1+
ER	ER-ratio	2017	0.26	-	-
TC	TC-MT	2017	26,500		
TL	TL-MT	2017	26,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.144		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

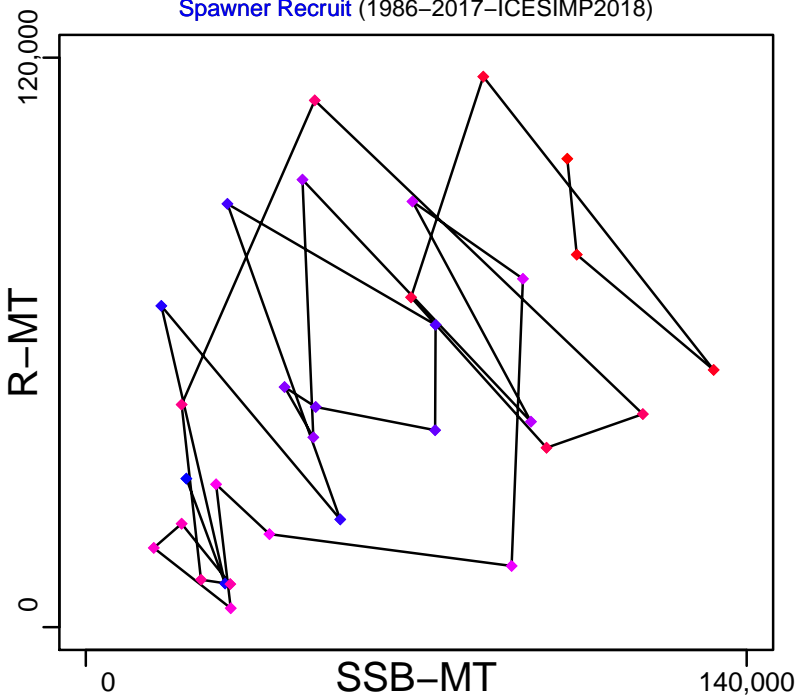
Kobe MSY*



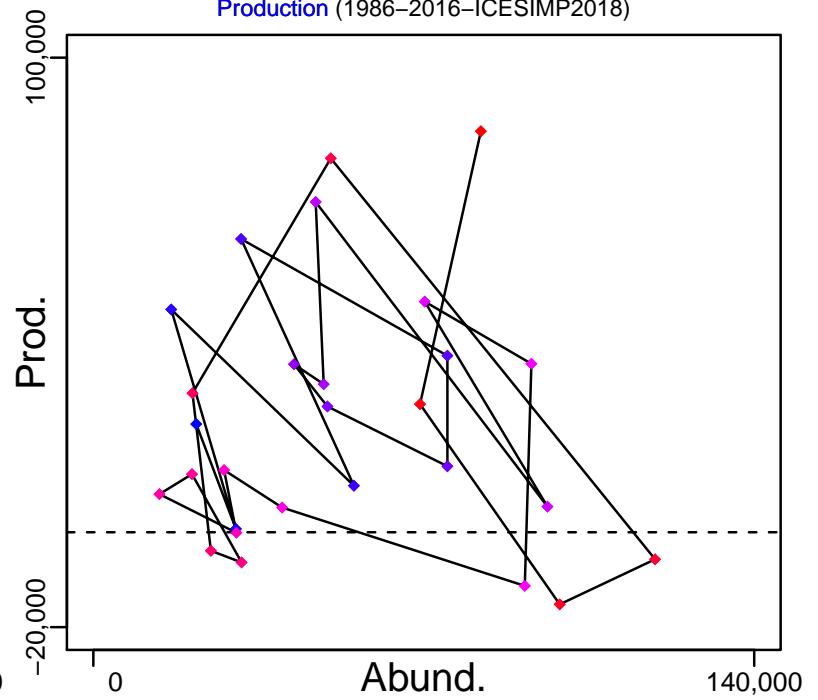
Kobe MGT*



Spawner Recruit (1986–2017–ICESIMP2018)



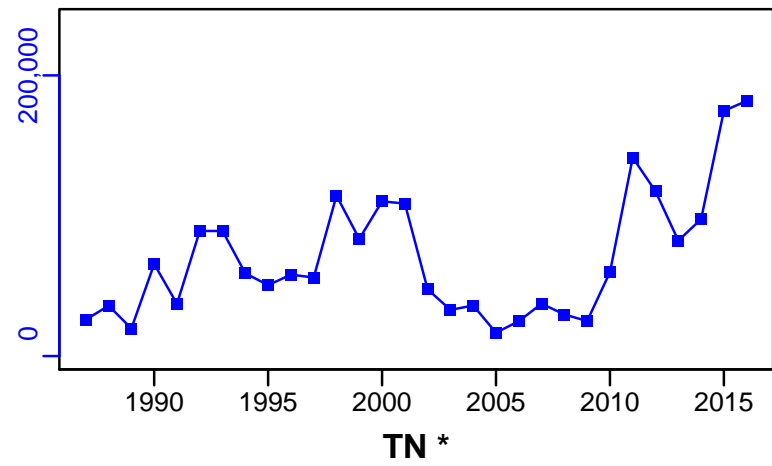
Production (1986–2016–ICESIMP2018)



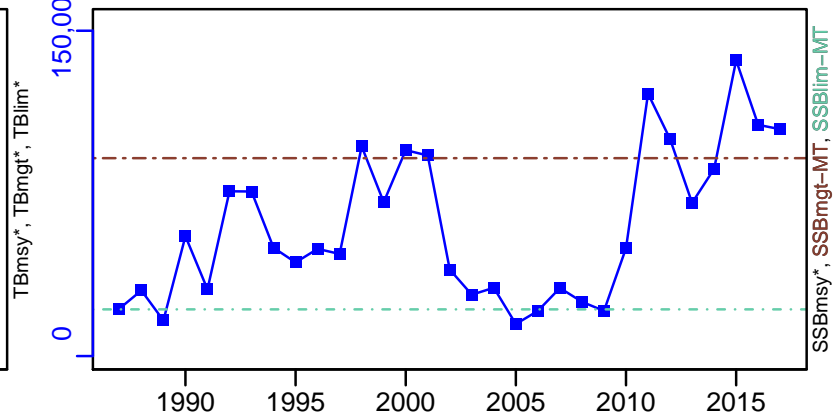
◆ Start Year ◆ End Year * No Data

Anchovy ICES VIII [ANCHOBAYB]

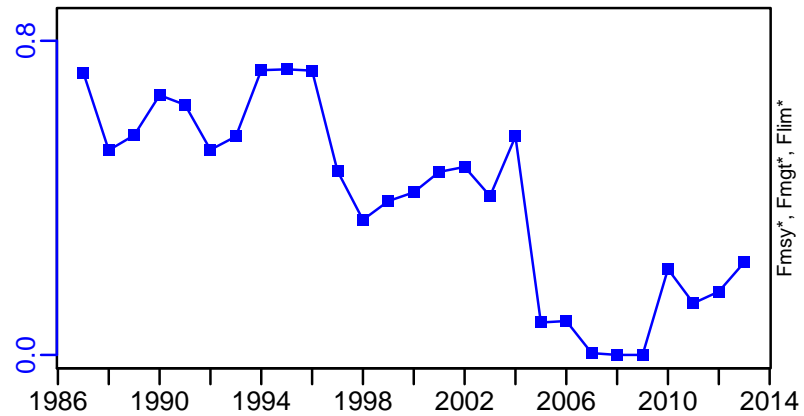
TB-MT (1986–2016–ICESIMP2018)



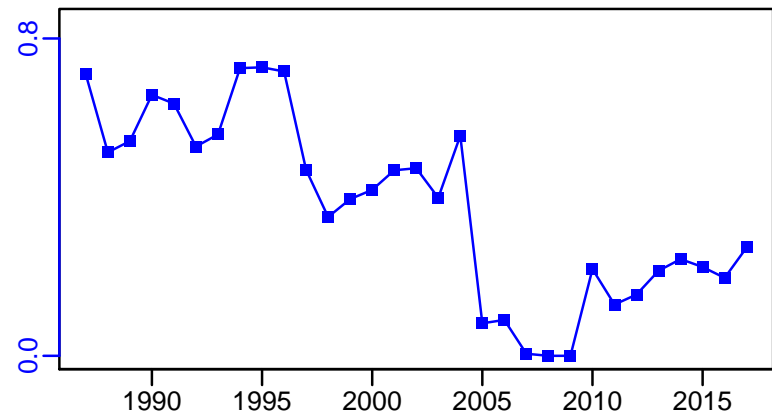
SSB-MT (1986–2017–ICESIMP2018)



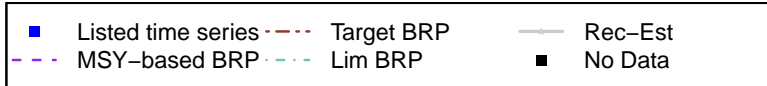
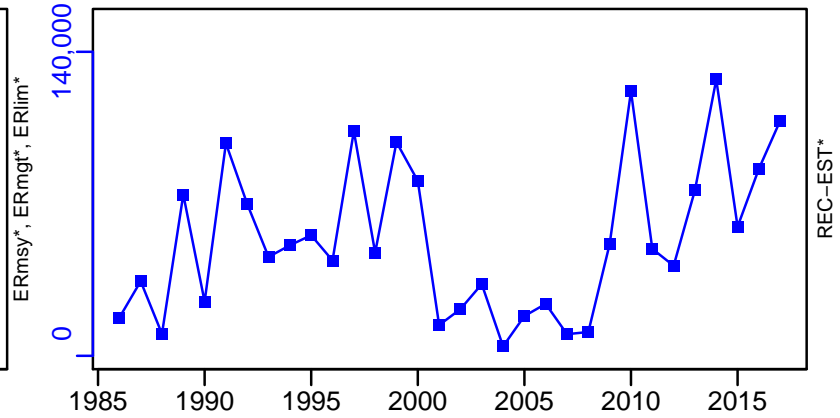
F-1/yr (1986–2014–ICESIMP2016)



ER-ratio (1986–2017–ICESIMP2018)



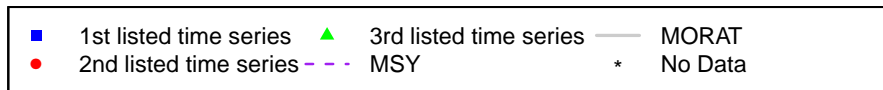
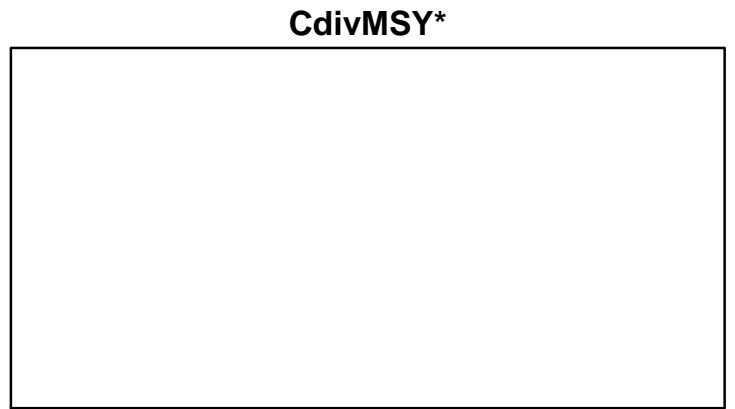
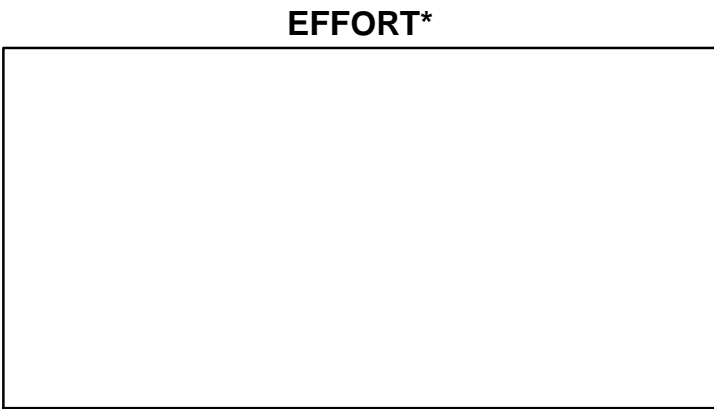
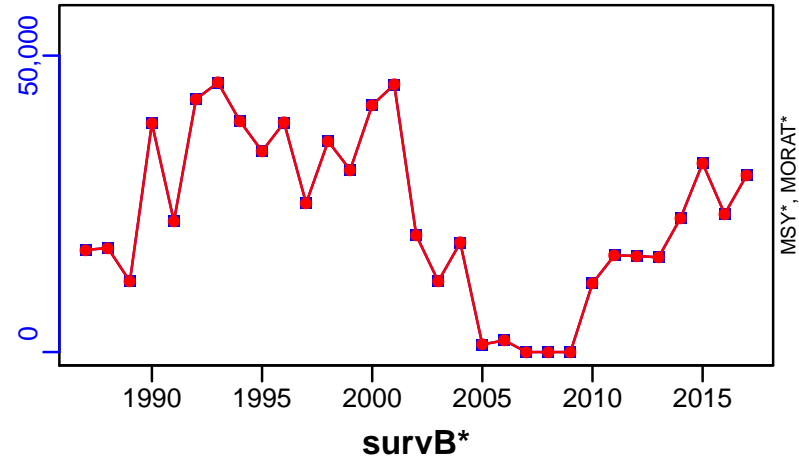
R-MT (1986–2017–ICESIMP2018)



Anchovy ICES VIII [ANCHOBAYB]

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

TAC*, Cpair*, Cadv*



Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

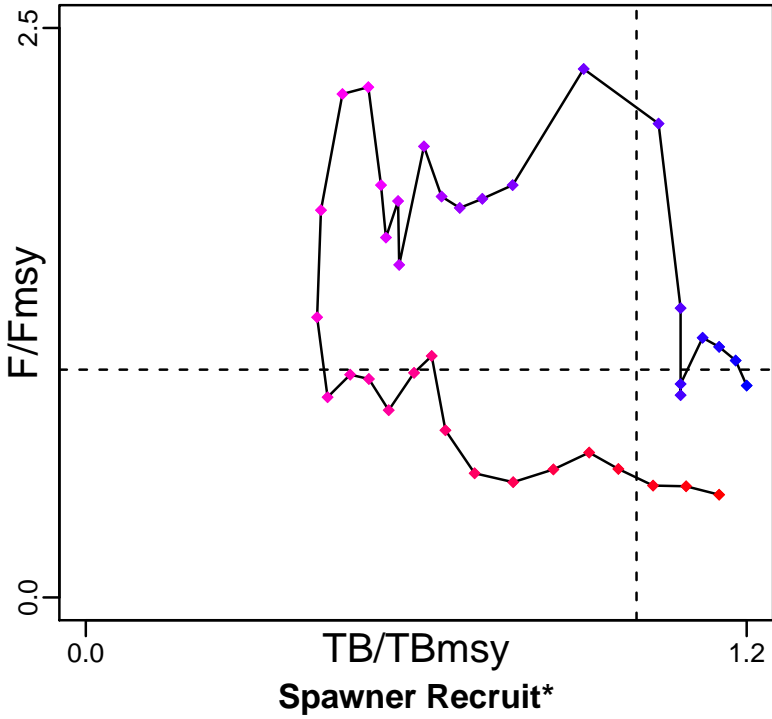
Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVIIIc-IXa-1980-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2011, 2012, 2013

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

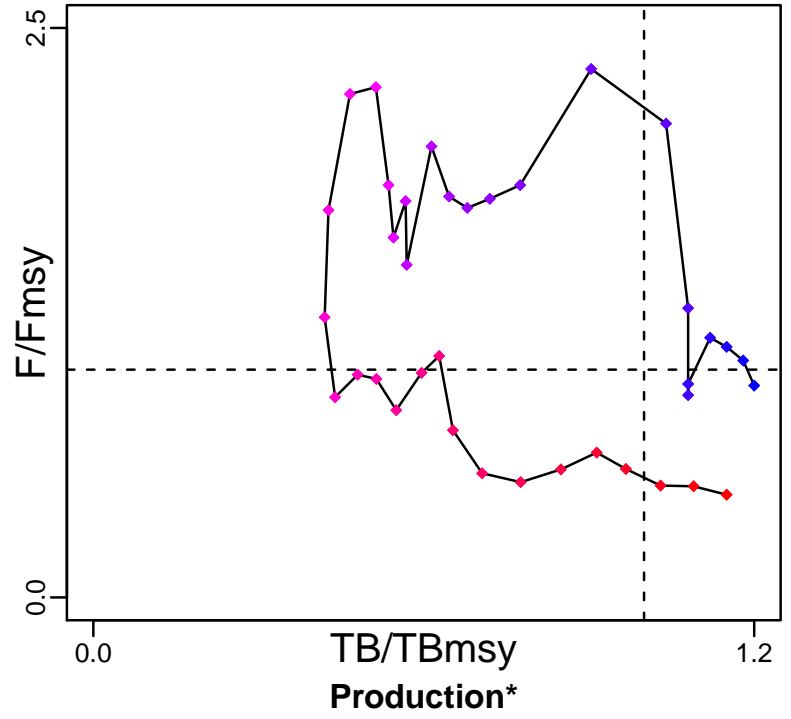
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	1.38	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2018	0.342	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	861		
TB/TBmsy	TBdivTBmsy-dimensionless	2017	1.2		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	1.11		
F/Fmsy	FdivFmsy-dimensionless	2017	0.451		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

Kobe MSYpref (1980–2017–ICESIMP2018)



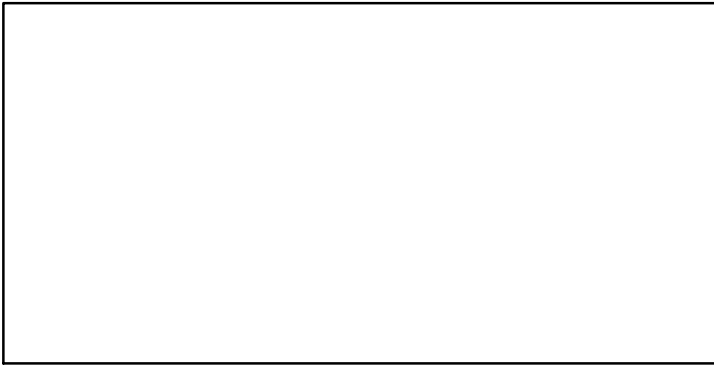
Kobe MGTpref (1980–2017–ICESIMP2018)



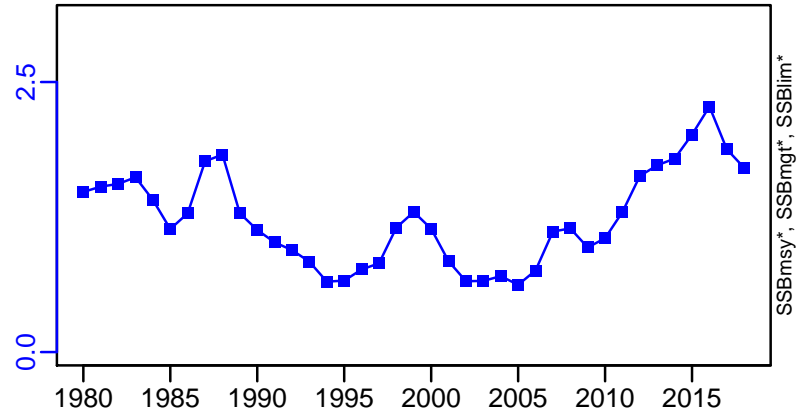
◆ Start Year ◆ End Year * No Data

Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

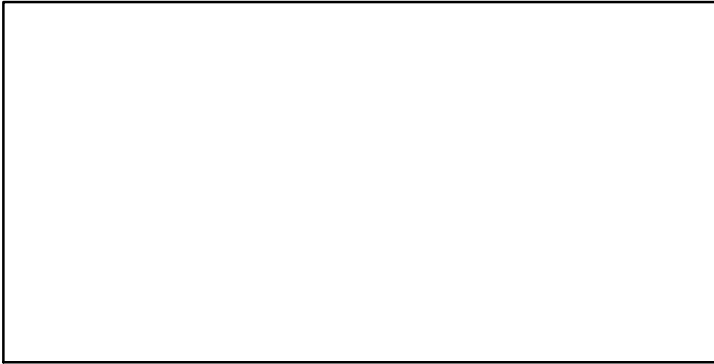
TB*



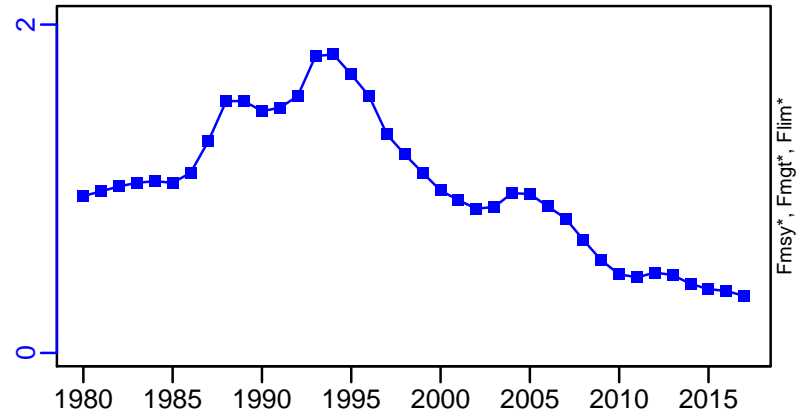
SSB-relative (1980-2018-ICESIMP2018)



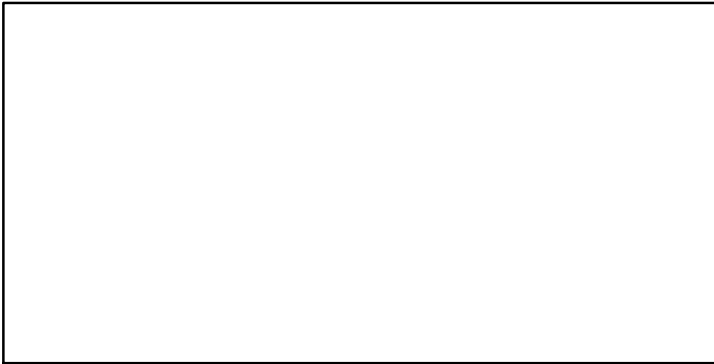
TN *



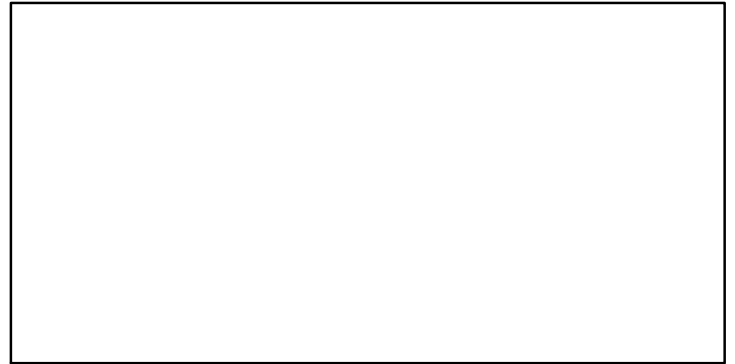
F-relative (1980-2018-ICESIMP2018)



ER*



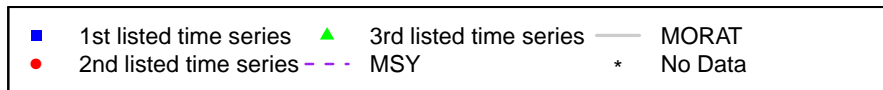
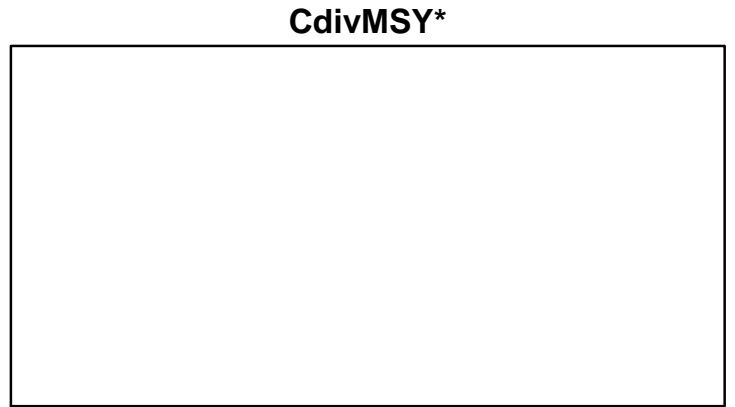
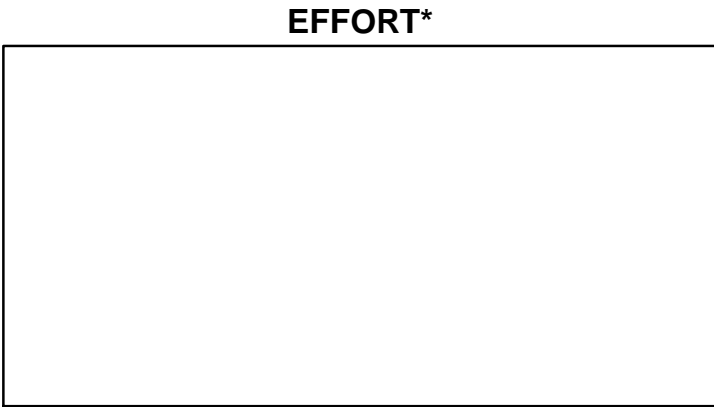
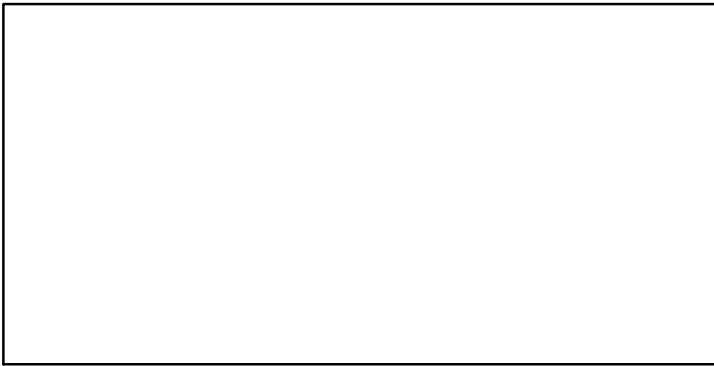
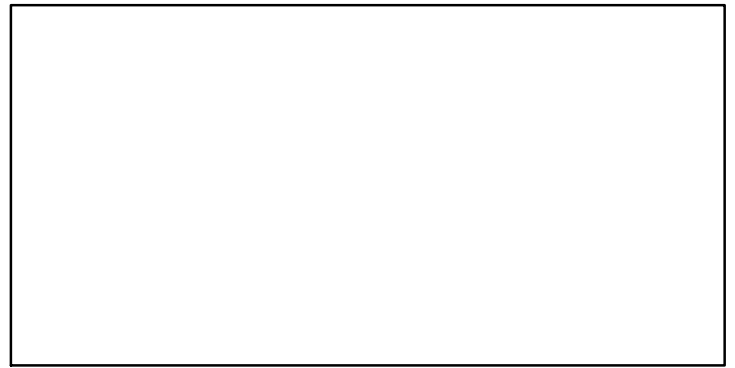
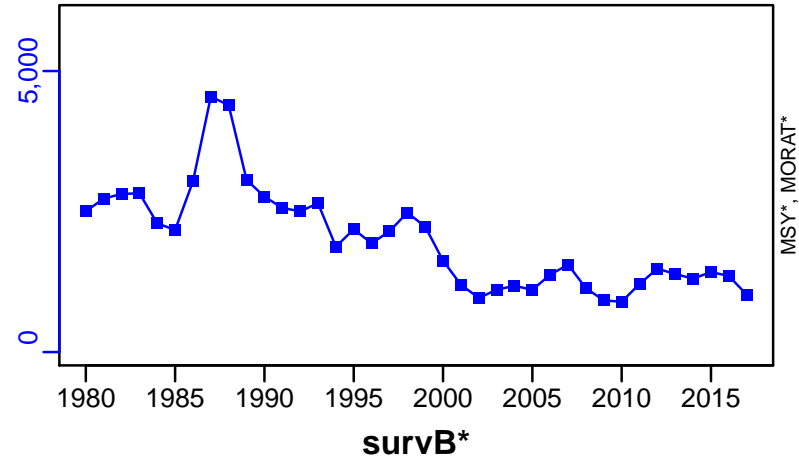
Recruits*



Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

TL-MT, TC*, RecC* (1980-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVII-VIIIabd-1986-2017-ICESIMP2018
Area	VII and VIIIabd
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	13,500		
TL	TL-MT	2017	11,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2017	0.836		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

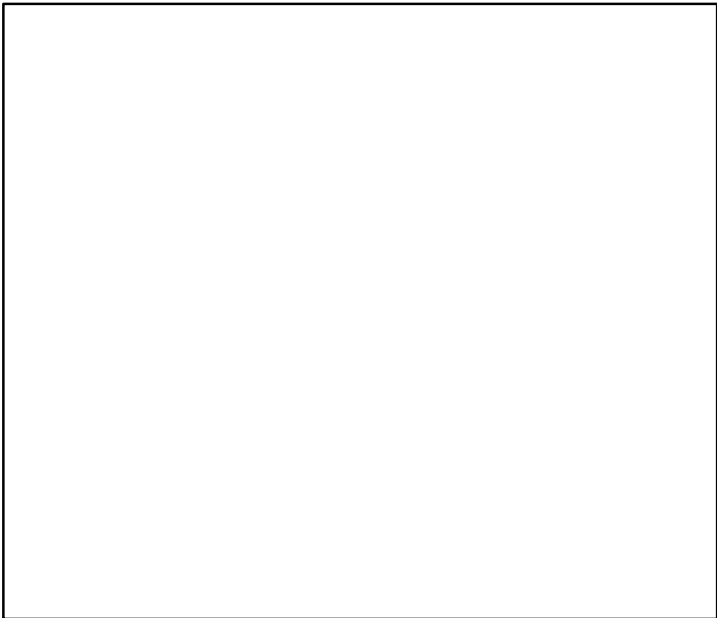
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

TB*



SSB*



TN *



F*



ER*

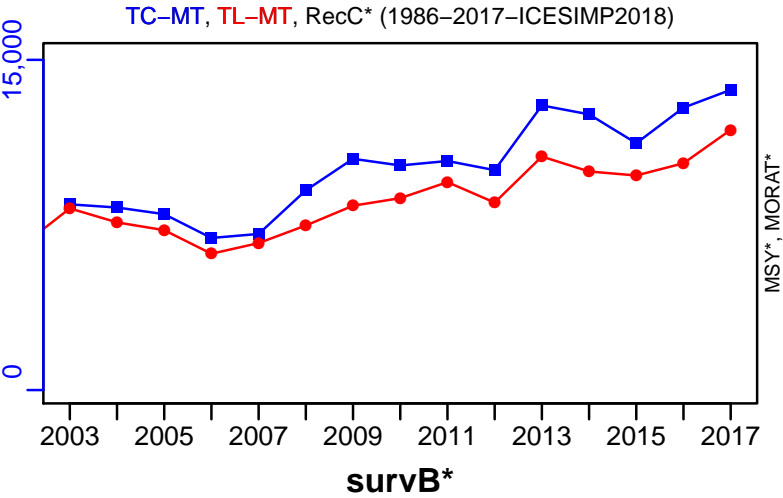


Recruits*



Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

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



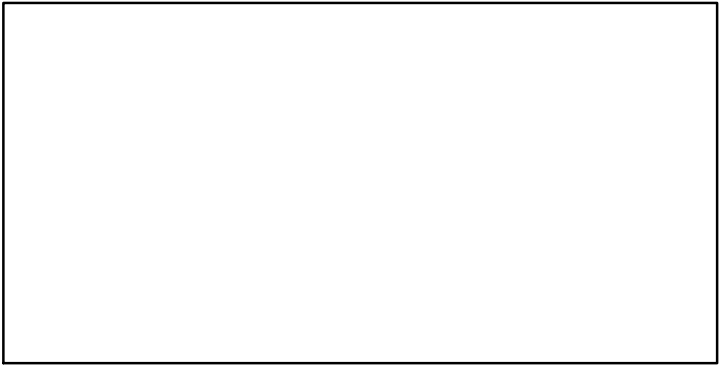
TAC*, Cpair*, Cadv*



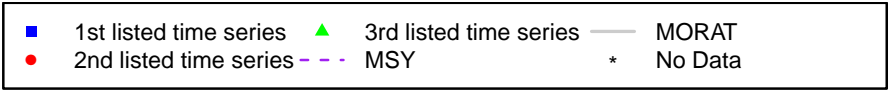
CPUE*



EFFORT*



CdivMSY*



Angel shark Northeast Atlantic [ASHARNEATL]

Metadata	
Scientific Name	Squatina squatina
Current Assess ID	WGEF-ASHARNEATL-1973-2011-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

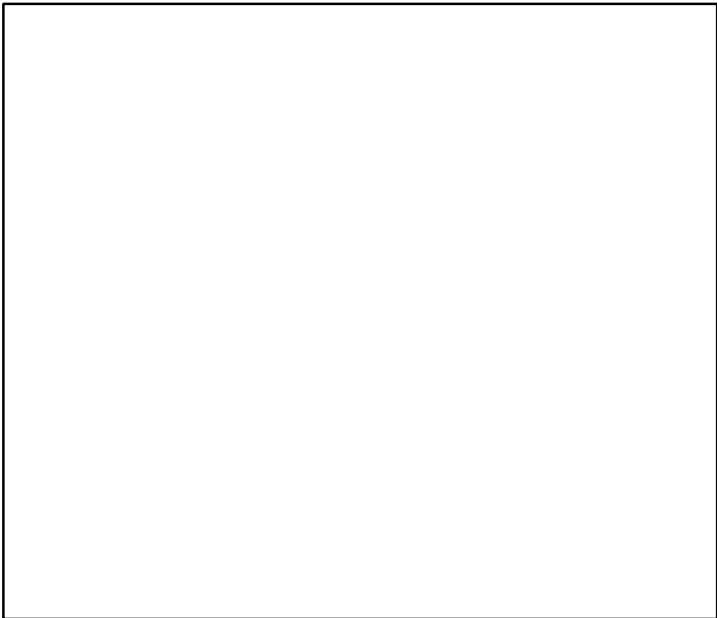
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Angel shark Northeast Atlantic [ASHARNEATL]

TB*



SSB*



TN *



F*



ER*

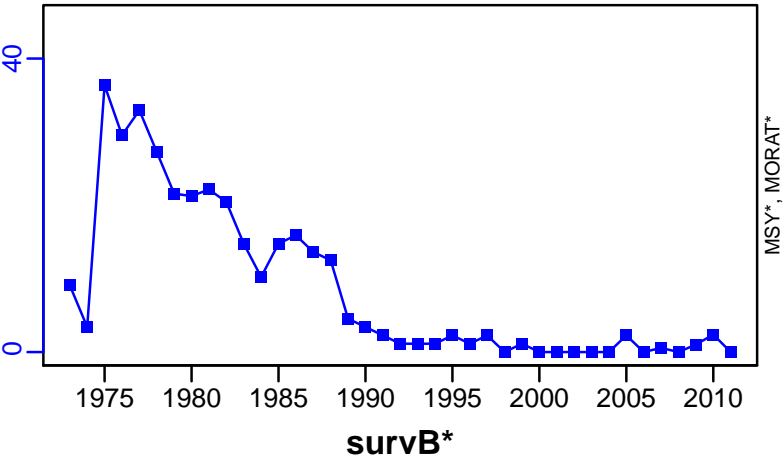


Recruits*



Angel shark Northeast Atlantic [ASHARNEATL]

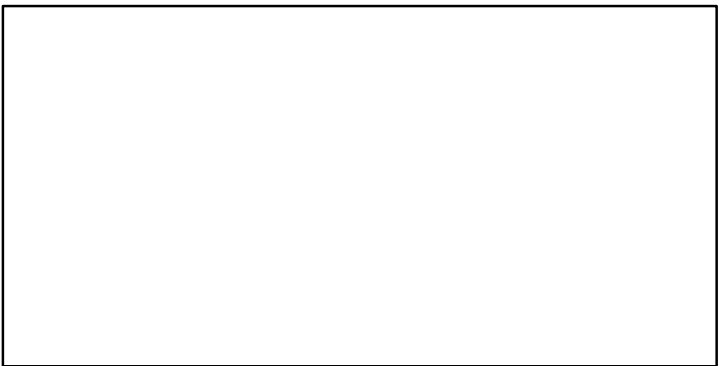
TL-MT, TC*, RecC* (1973–2011–ICESIMP2018)



TAC*, Cpair*, Cadv*



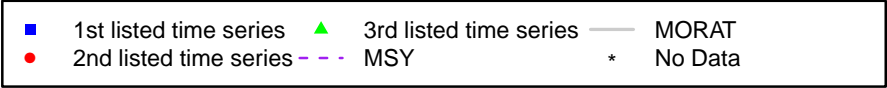
CPUE*



EFFORT*



CdivMSY*

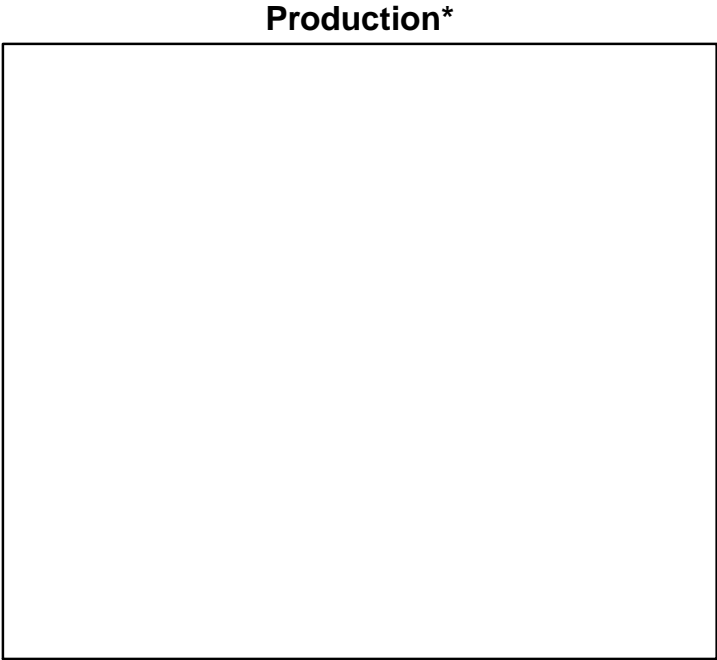
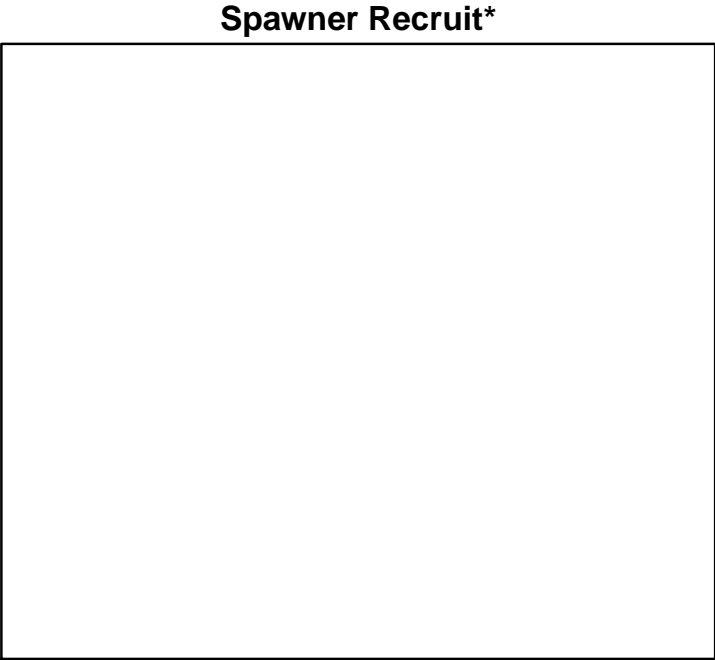
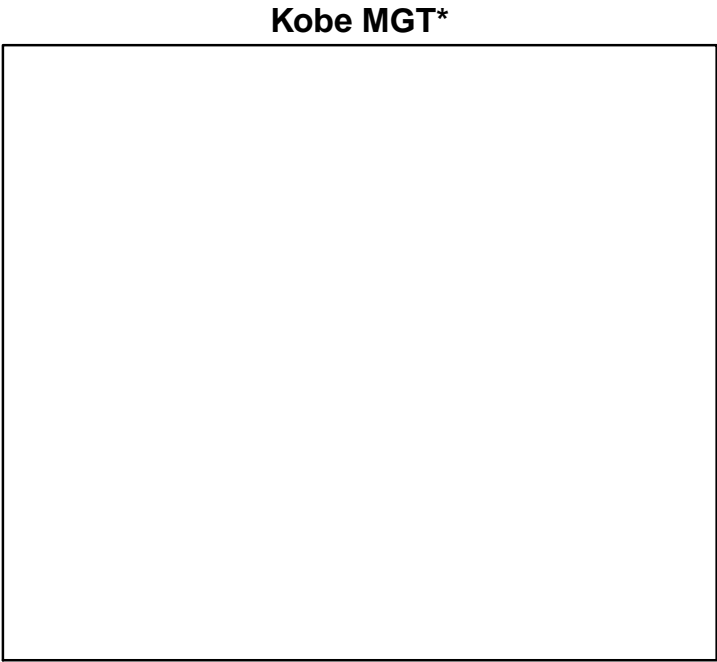
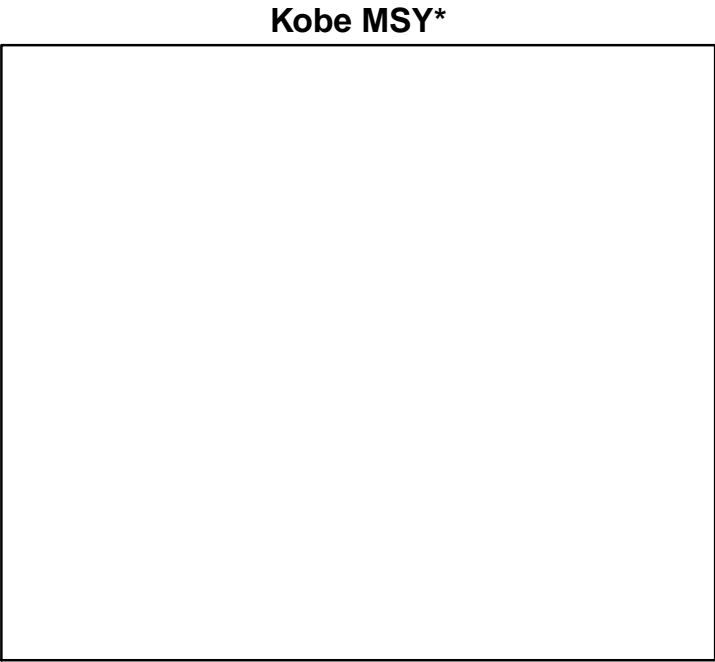


Beryx spp Northeast Atlantic [BERYXSPNEATL]

Metadata	
Scientific Name	Beryx spp
Current Assess ID	WGDEEP-BERYXSPNEATL-1988-2017-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	240		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

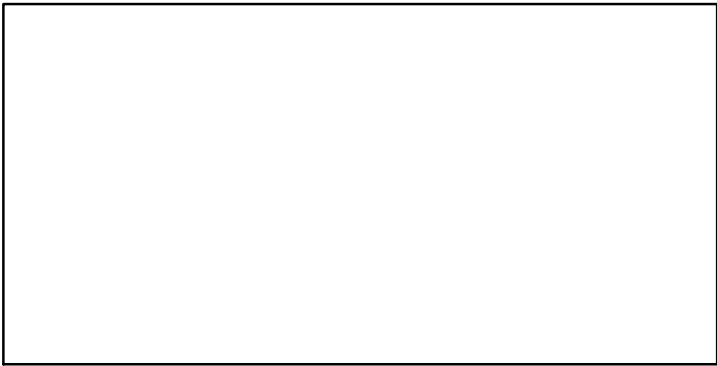
TB*



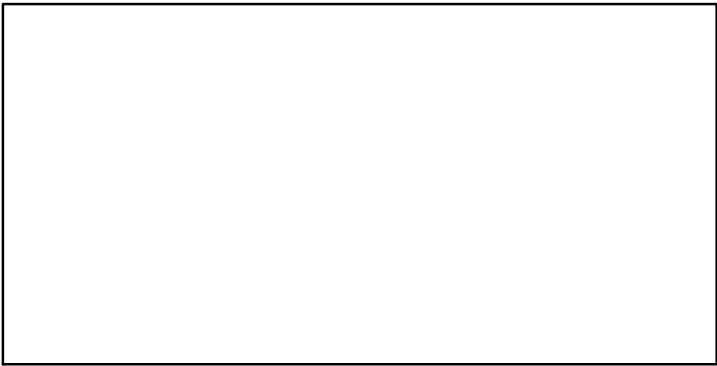
SSB*



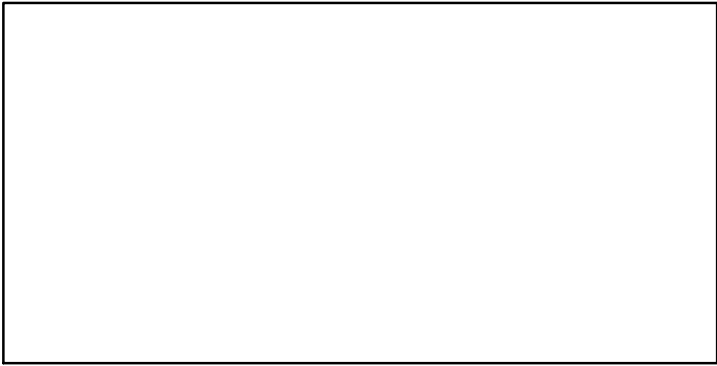
TN *



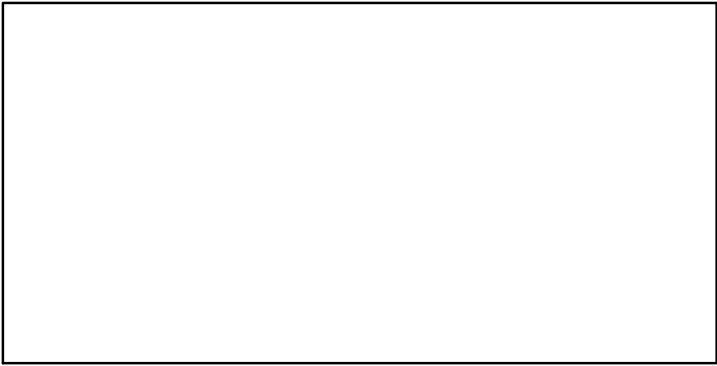
F*



ER*



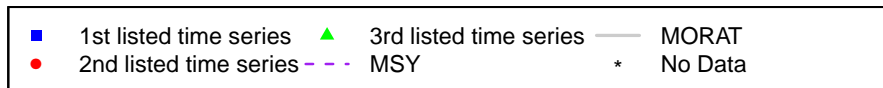
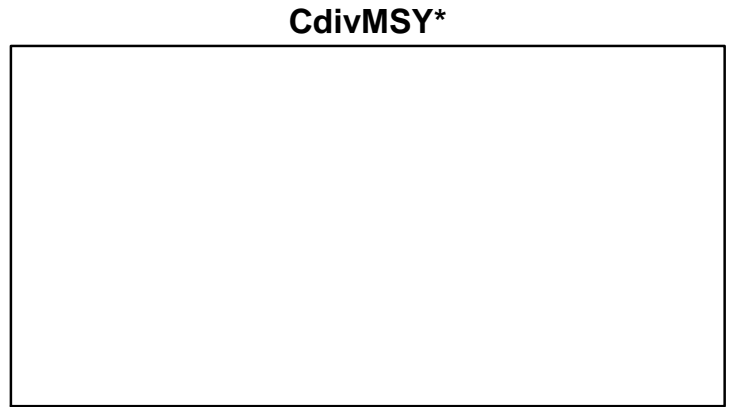
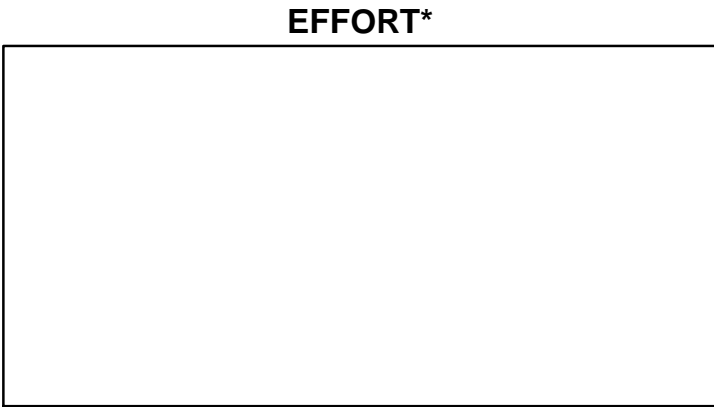
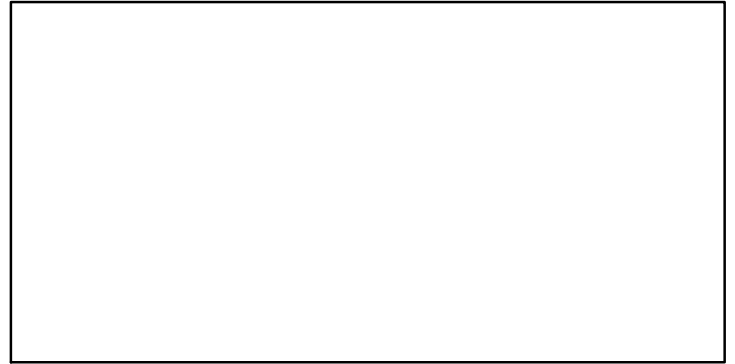
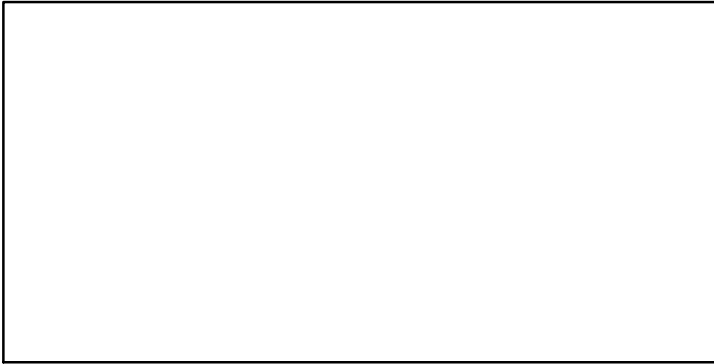
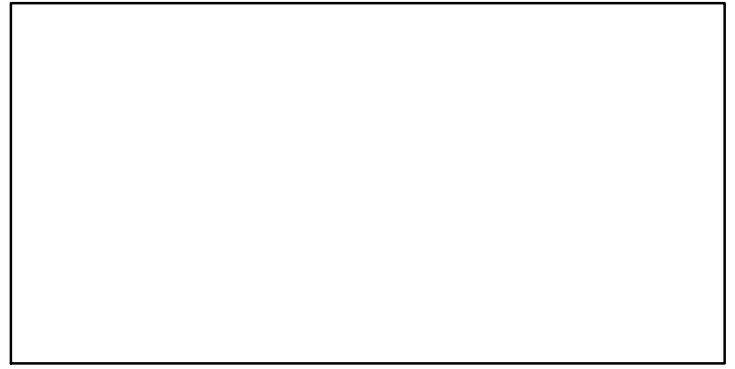
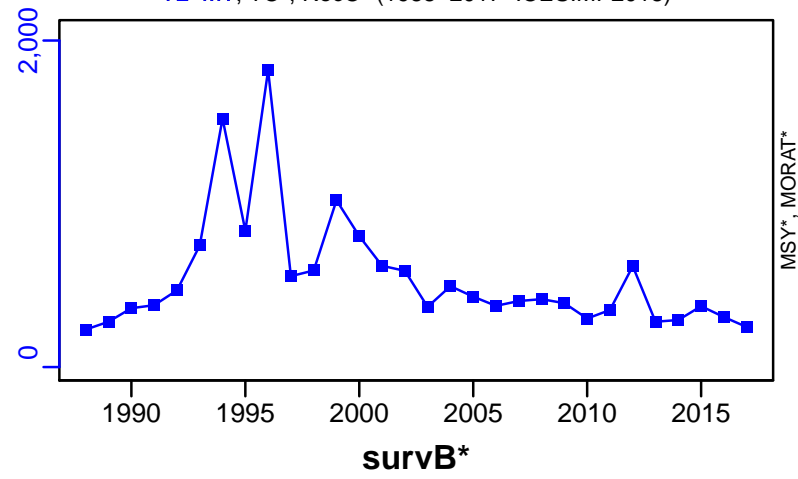
Recruits*



Beryx spp Northeast Atlantic [BERYXSPNEATL]

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

TAC*, Cpair*, Cadv*



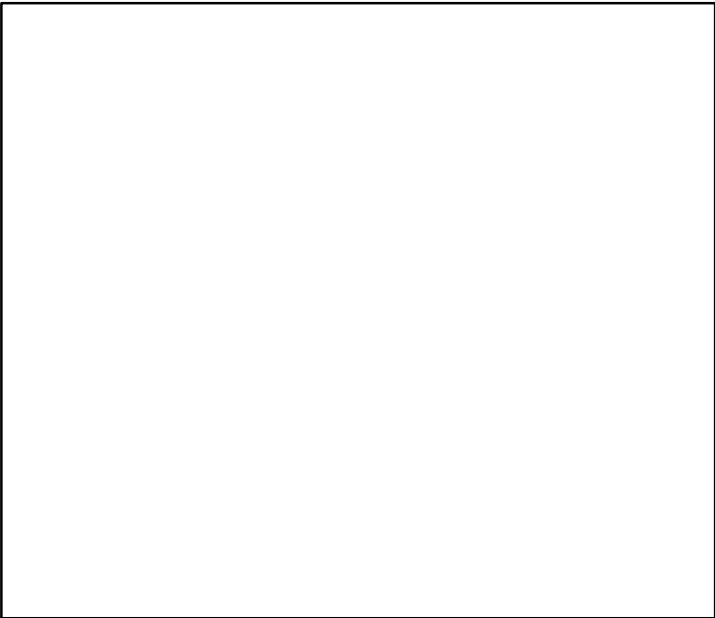
Blue jack mackerel Azores (Xa2) [BJMACKXa2]

Metadata	
Scientific Name	Trachurus picturatus
Current Assess ID	WGHANSA-BJMACKXa2-1978-2017-ICESIMP2018
Area	Azores (Xa2)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016, 2017

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

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

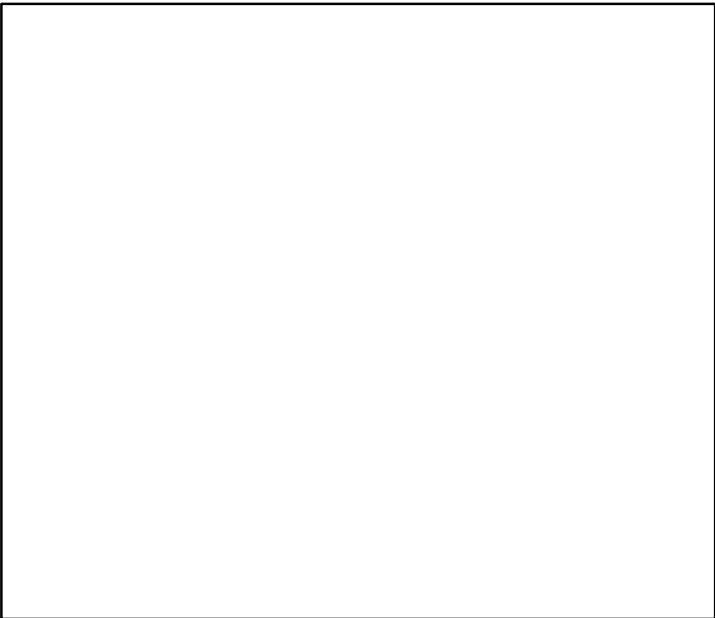
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Blue jack mackerel Azores (Xa2) [BJMACKXa2]

TB*



SSB*



TN *



F*



ER*

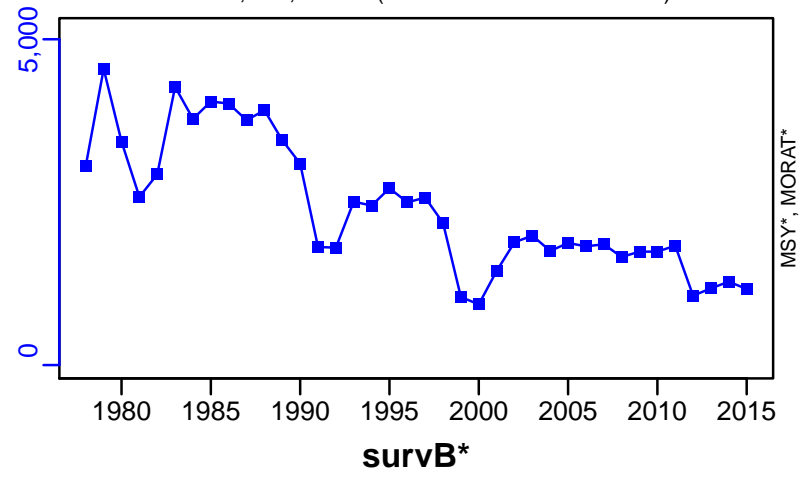


Recruits*

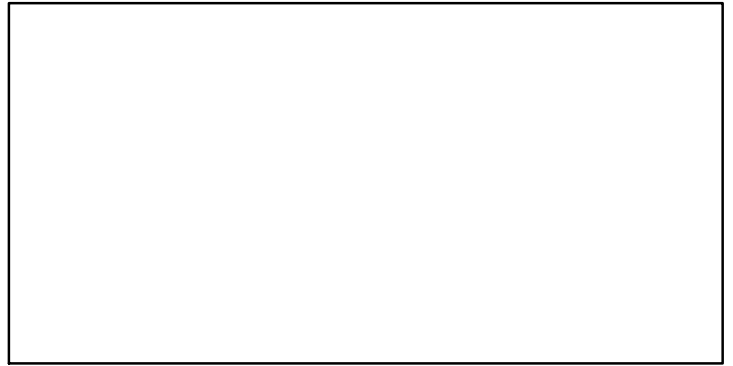


Blue jack mackerel Azores (Xa2) [BJMACKXa2]

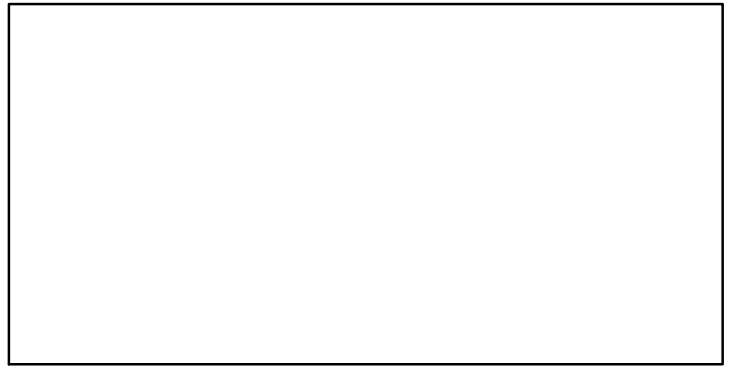
TC-MT, TL*, RecC* (1978-2016-ICESIMP2016)



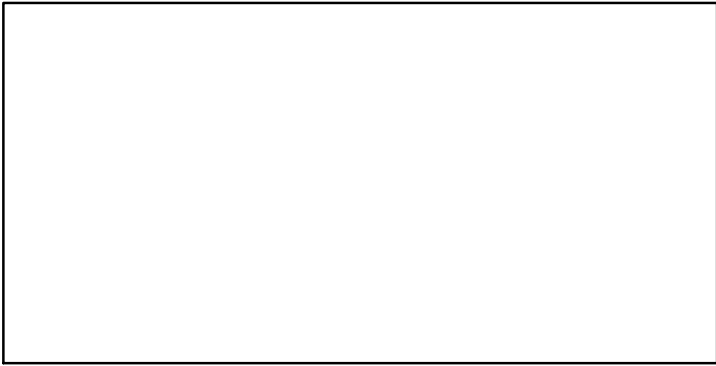
TAC*, Cpair*, Cadv*



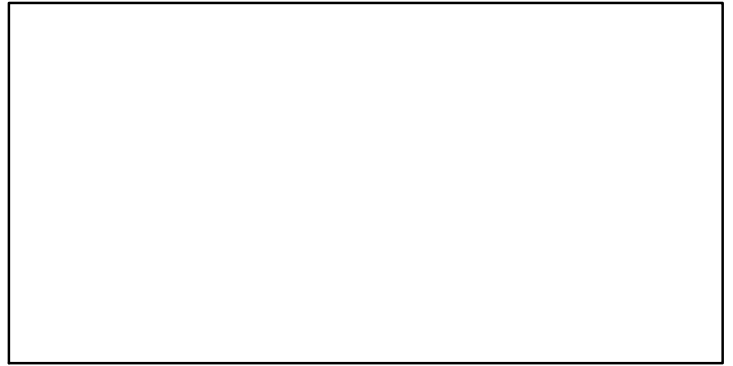
CPUE*



EFFORT*



CdivMSY*



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

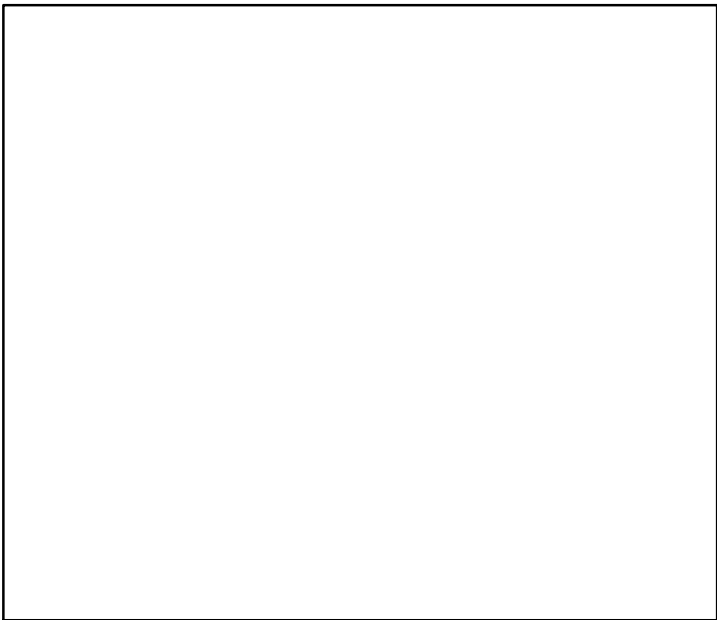
Black scabbardfish Northeast Atlantic [BKSFNEATL]

Metadata	
Scientific Name	Aphanopus carbo
Current Assess ID	WGDEEP-BKSFNEATL-1988-2017-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2017, 2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2013	0.022	-	-
ER	ER-ratio	2017	0.056	-	-
TC	TC-MT	2017	5		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

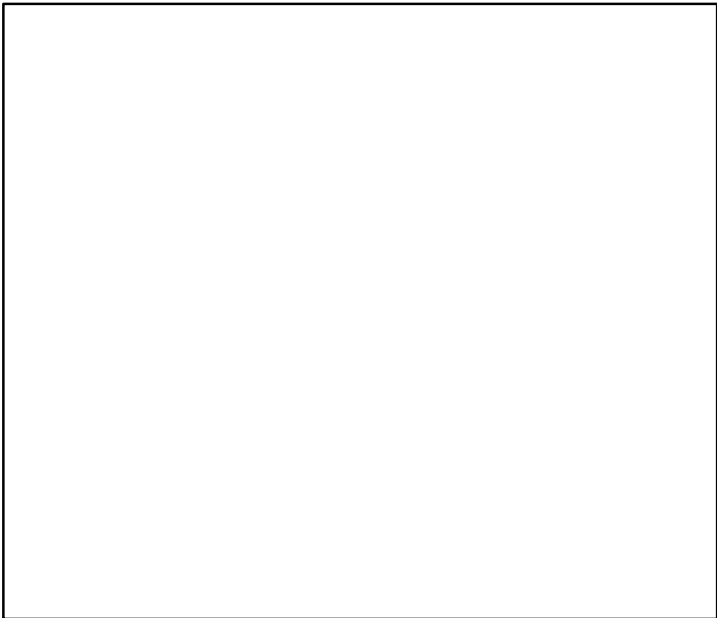
Kobe MSY*



Kobe MGT*



Spawner Recruit*



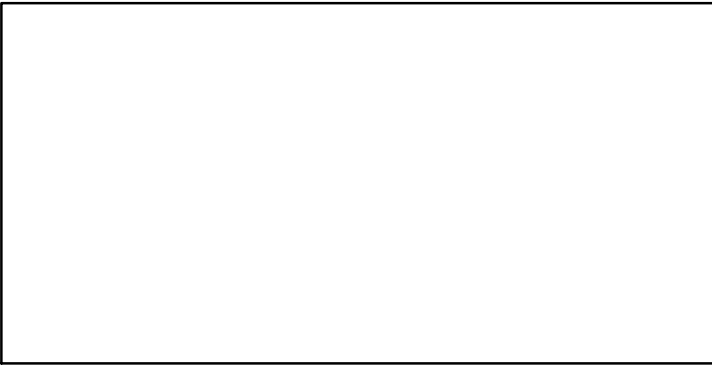
Production*



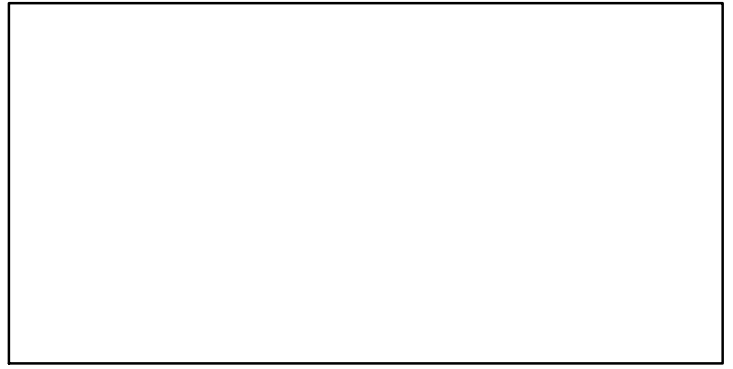
◆ Start Year ◆ End Year * No Data

Black scabbardfish Northeast Atlantic [BKSFNEATL]

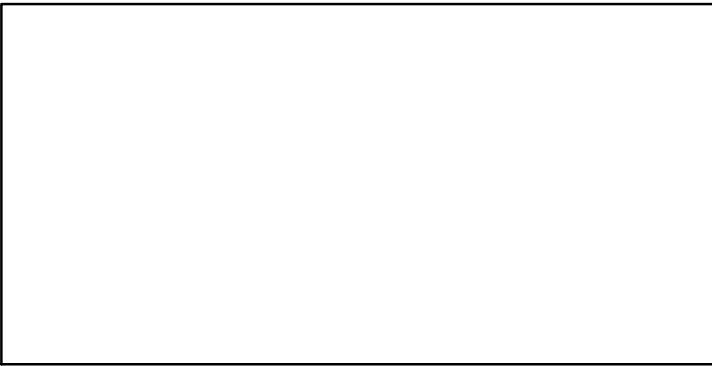
TB*



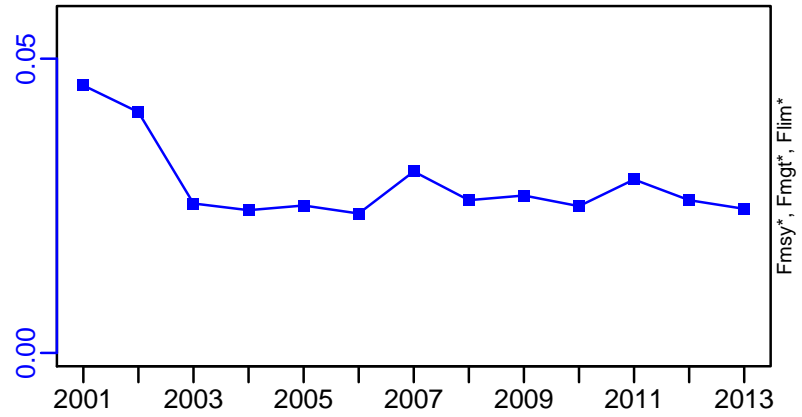
SSB*



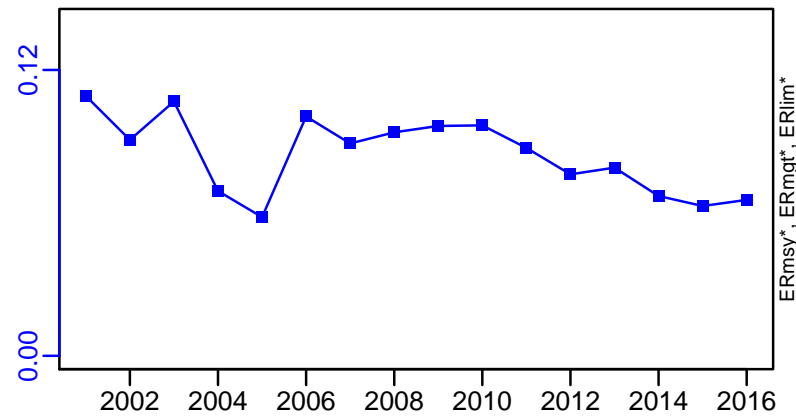
TN *



F-1/yr (2001–2013–ICESIMP2018)



ER-ratio (1988–2017–ICESIMP2018)



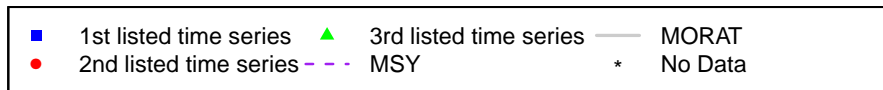
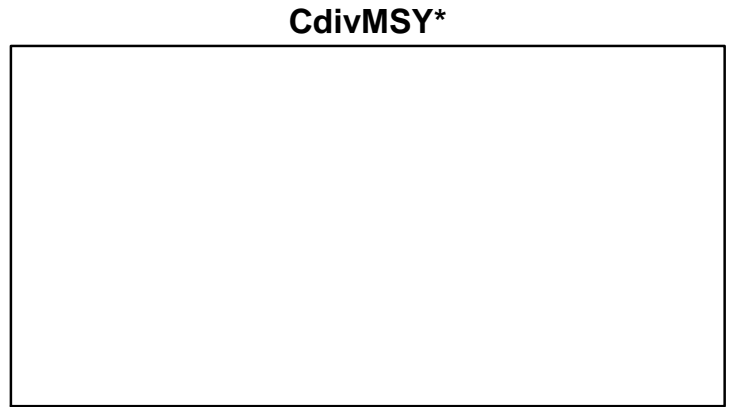
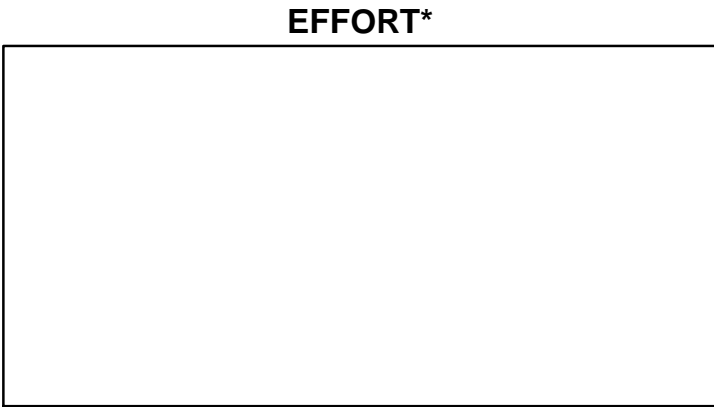
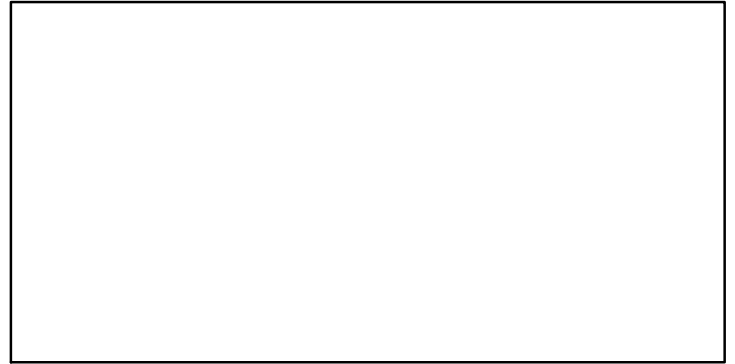
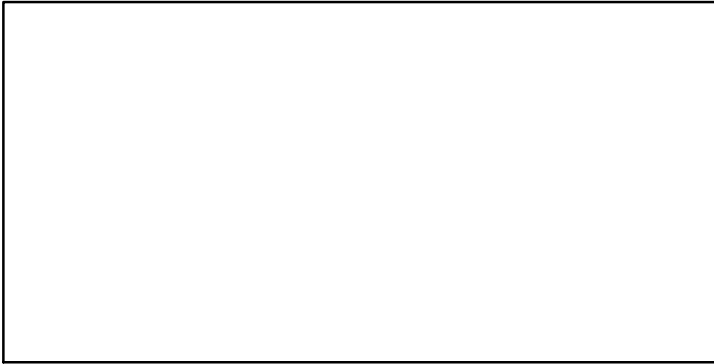
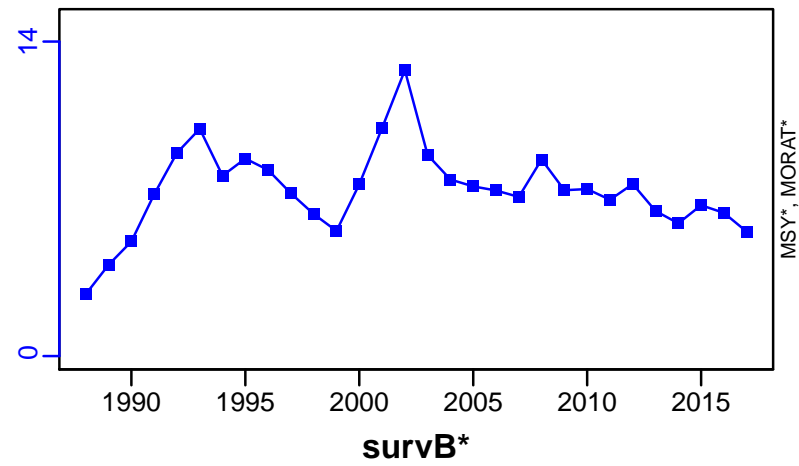
Recruits*



Black scabbardfish Northeast Atlantic [BKSFNEATL]

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

TAC*, Cpair*, Cadv*



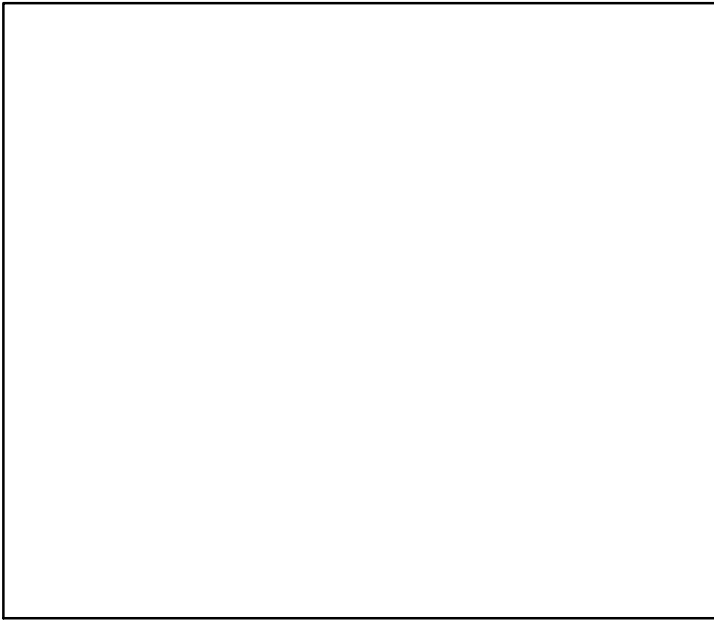
Blue ling I-II-IIIa-IVa-VIII-IX-XII [BLINGI-II-IIIa-IVa-VIII-IX-XII]

Metadata	
Scientific Name	Molva dypterygia
Current Assess ID	WGDEEP-BLINGI-II-IIIa-IVa-VIII-IX-XII-1988-2016-ICESIMP2018
Area	I-II-IIIa-IVa-VIII-IX-XII
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

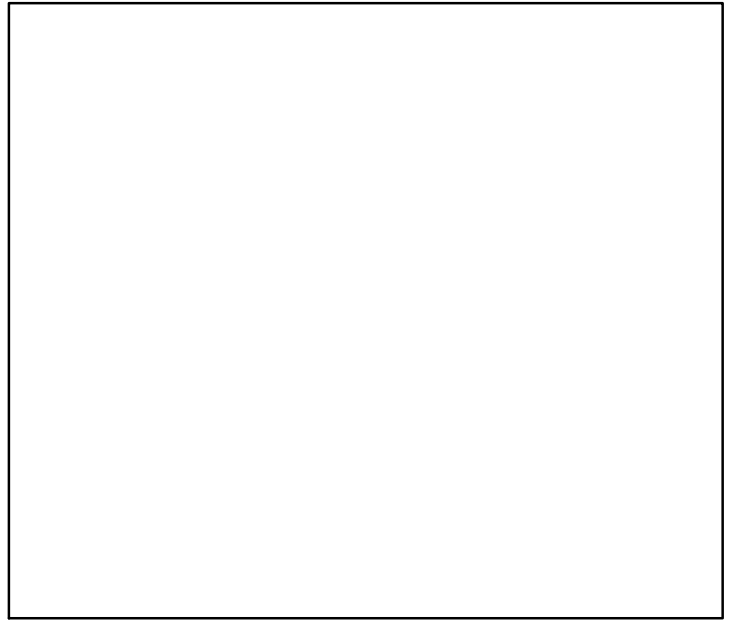
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	240		
TL	TL-MT	2016	205		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

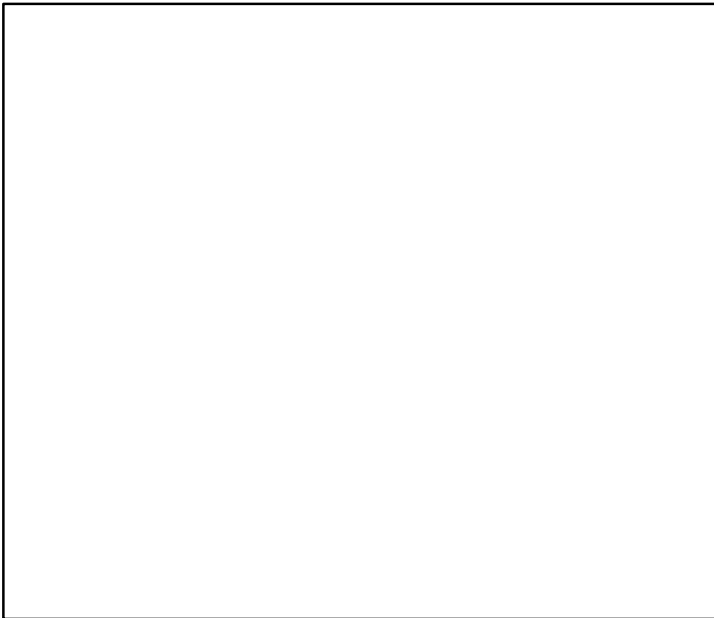
Kobe MSY*



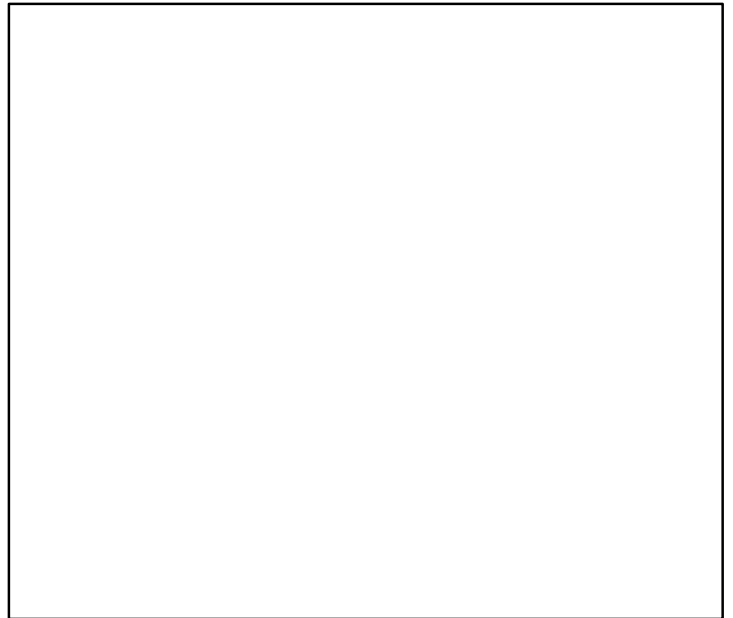
Kobe MGT*



Spawner Recruit*

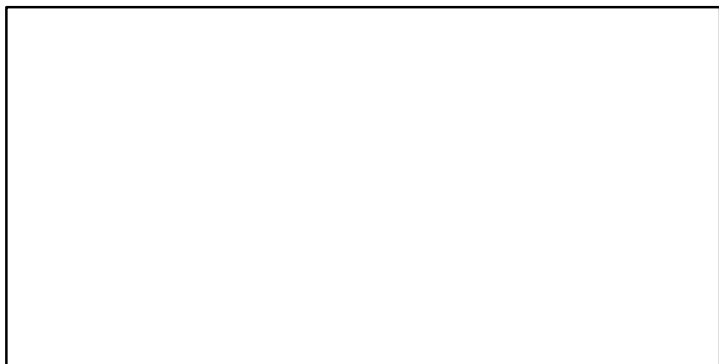


Production*

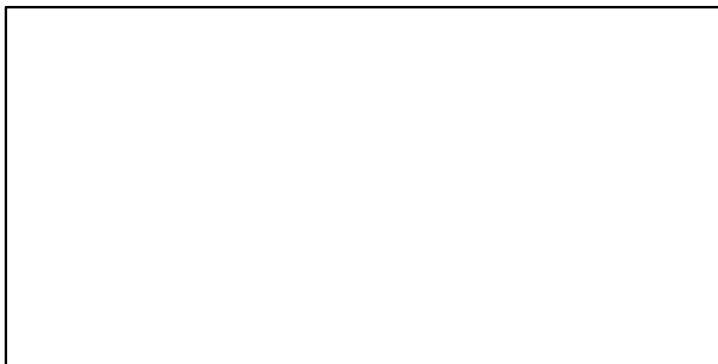


◆ Start Year ◆ End Year * No Data

TB*



SSB*



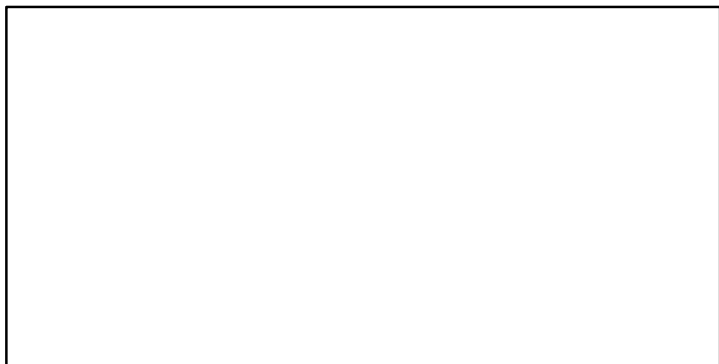
TN *



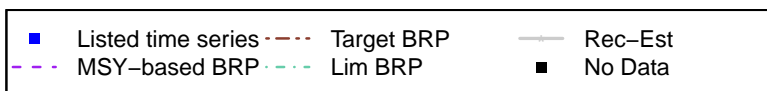
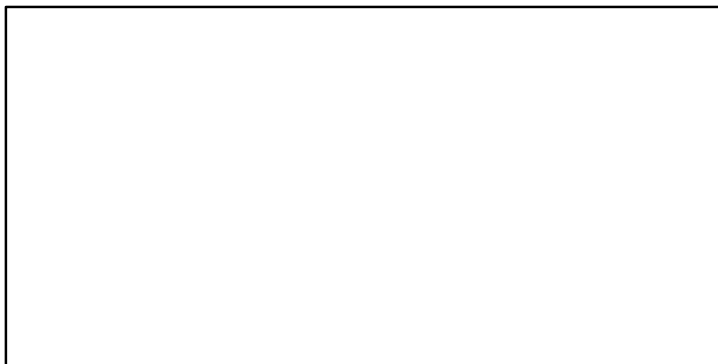
F*



ER*

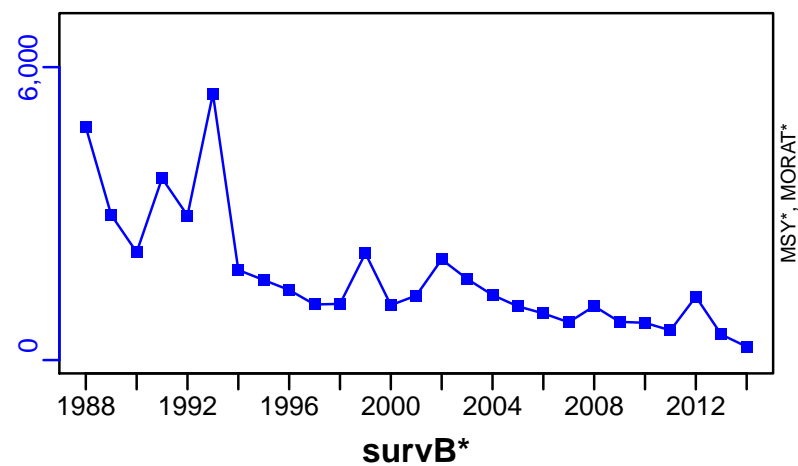


Recruits*

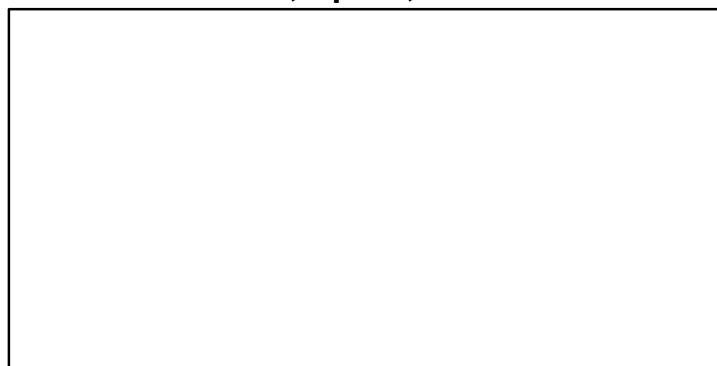


Blue ling I-II-IIIa-IVa-VIII-IX-XII [BLINGI-II-IIIa-IVa-VIII-IX-XII]

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



TAC*, Cpair*, Cadv*



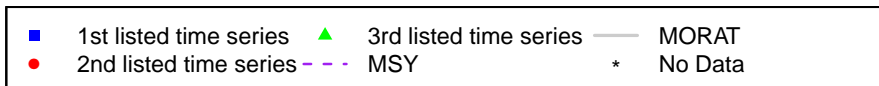
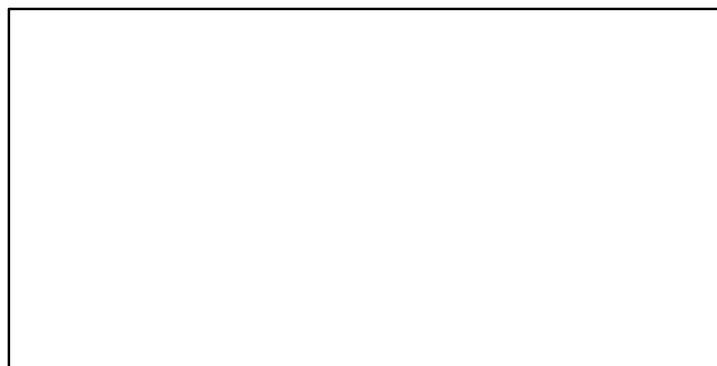
CPUE*



EFFORT*



CdivMSY*



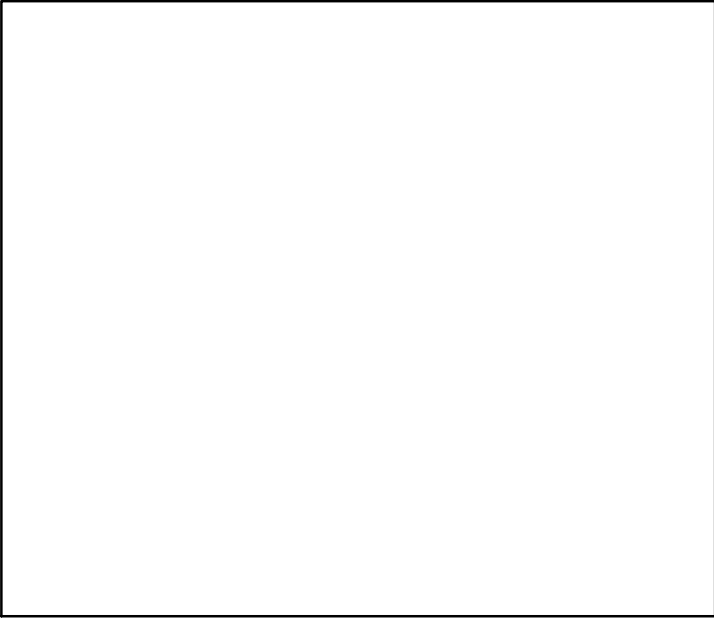
Blonde ray IVa and VI [BLRAYIVa-VI]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYIVa-VI-2009-2016-ICESIMP2018
Area	IVa and VI
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2016

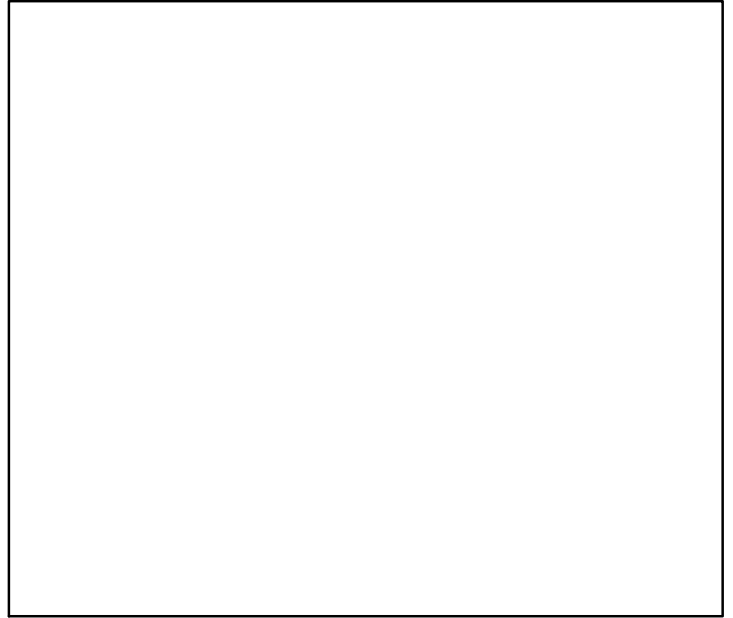
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	14		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

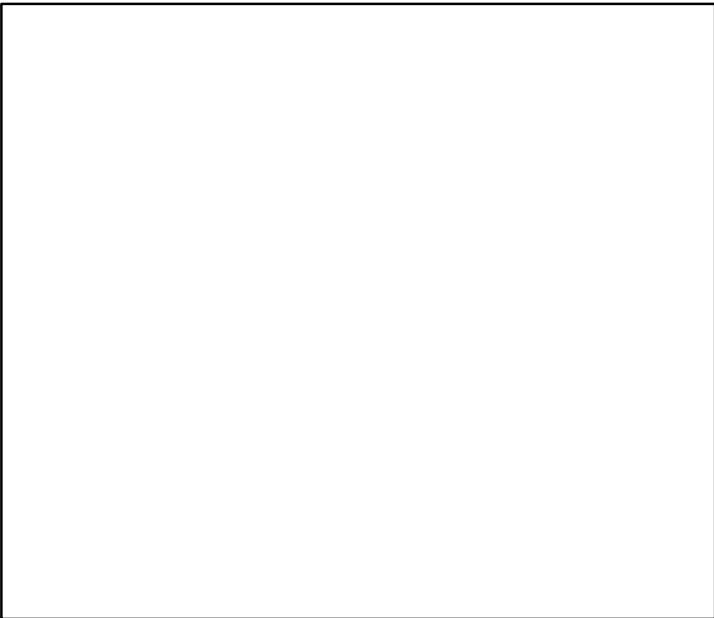
Kobe MSY*



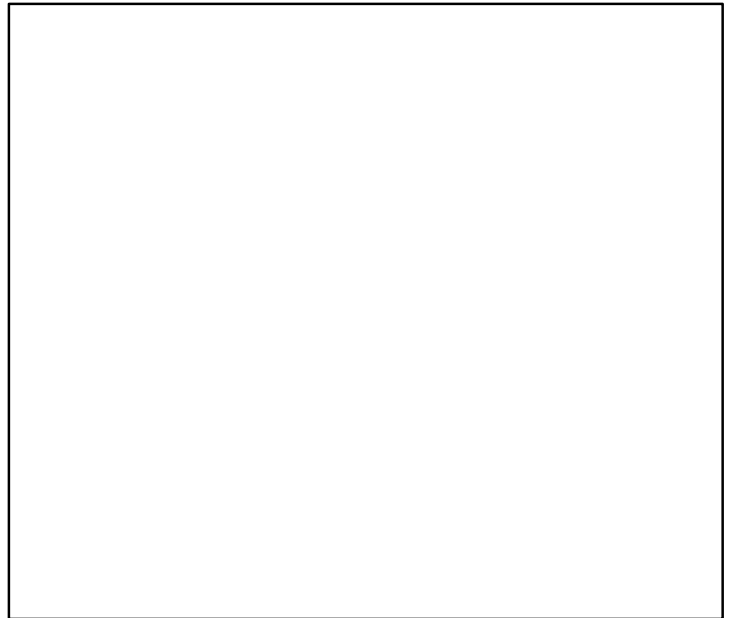
Kobe MGT*



Spawner Recruit*



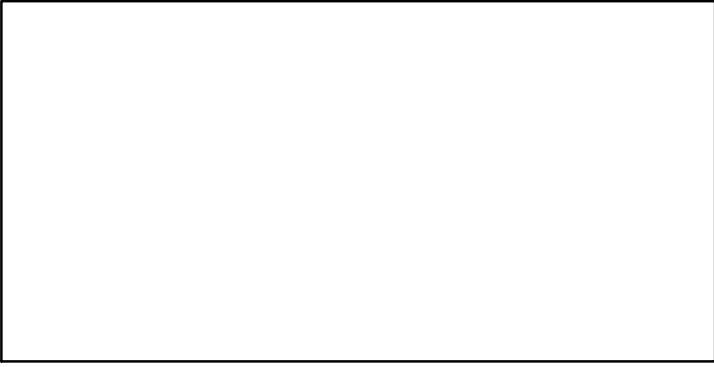
Production*



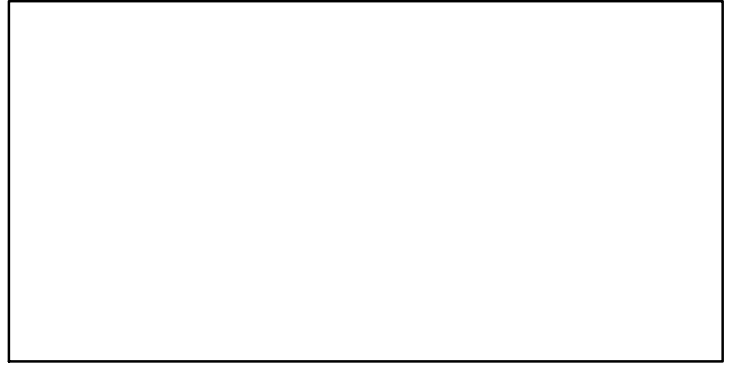
◆ Start Year ◆ End Year * No Data

Blonde ray IVa and VI [BLRAYIVa–VI]

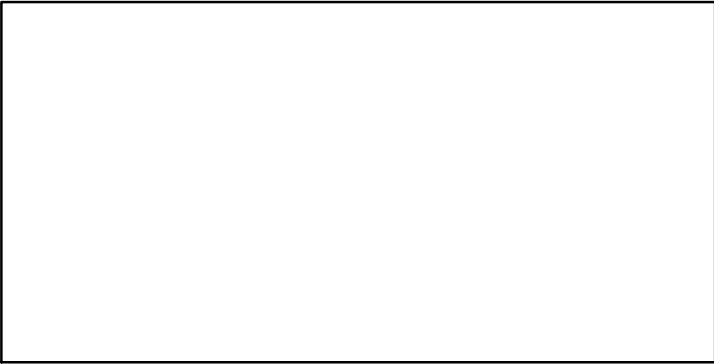
TB*



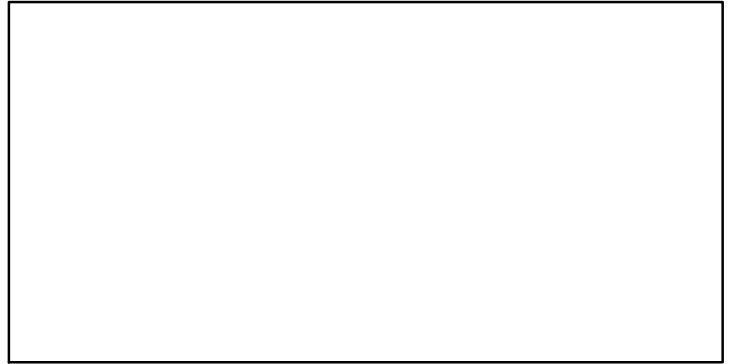
SSB*



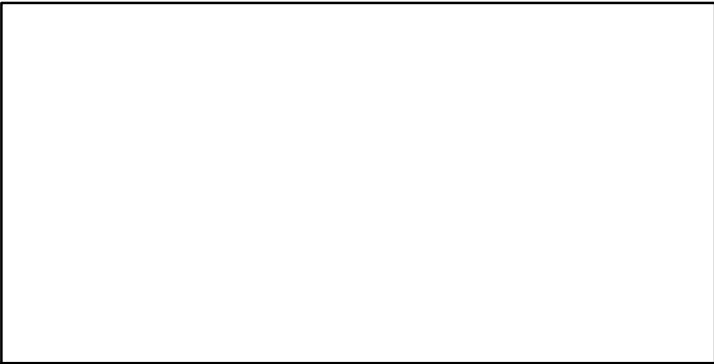
TN *



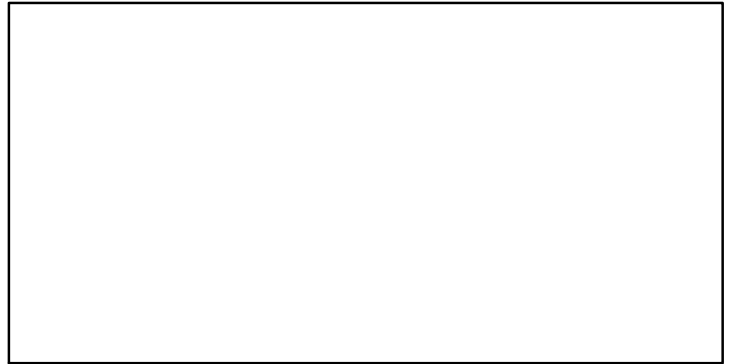
F*



ER*



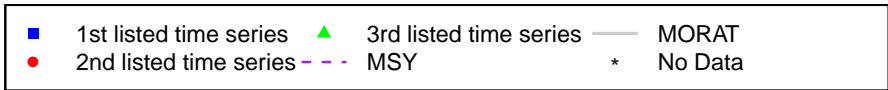
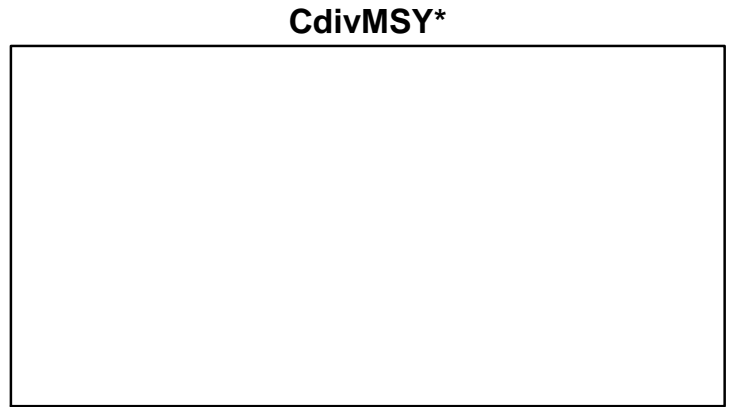
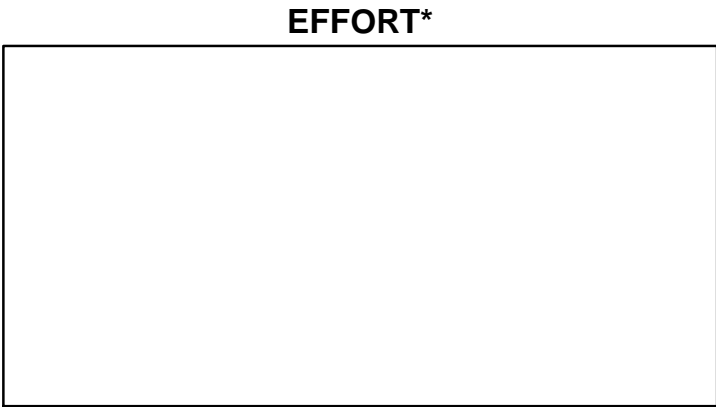
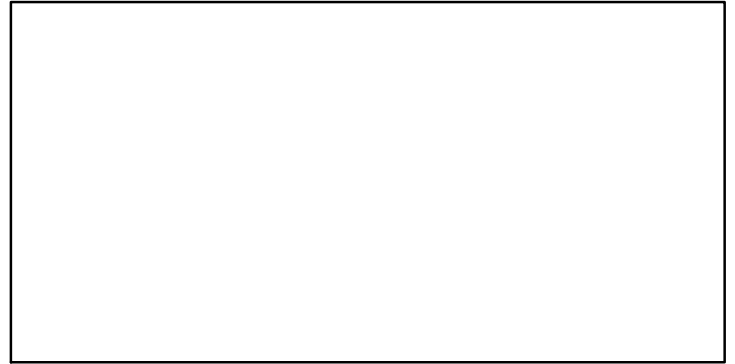
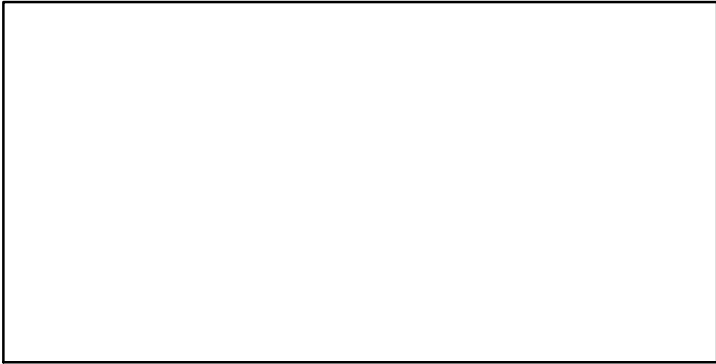
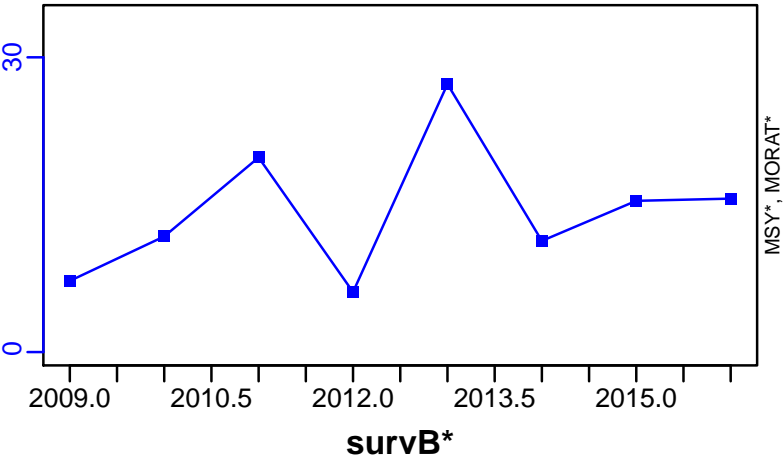
Recruits*



Blonde ray IVa and VI [BLRAYIVa-VI]

TL-MT, TC*, RecC* (2009-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Blonde ray IVc and VIIId [BLRAYIVc-VIIId]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYIVc-VIIId-2009-2016-ICESIMP2018
Area	IVc and VIIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	147		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

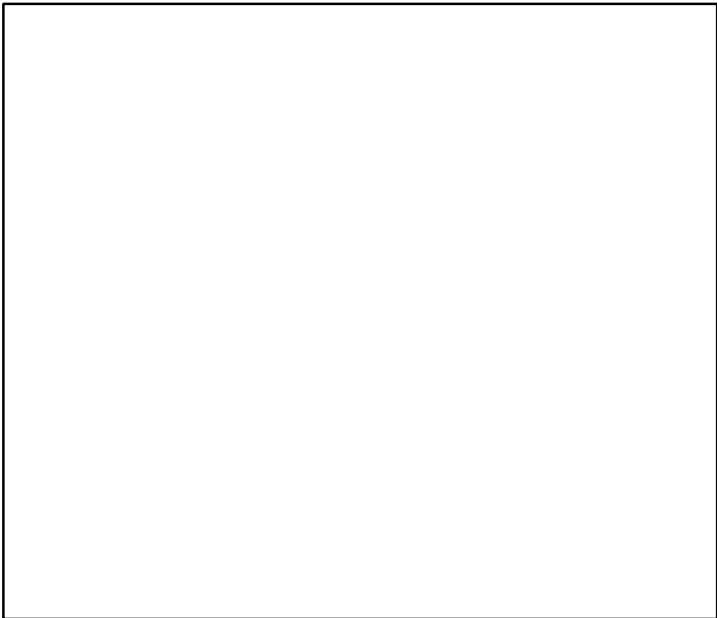
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



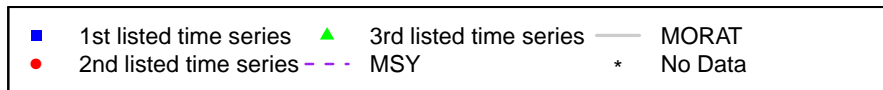
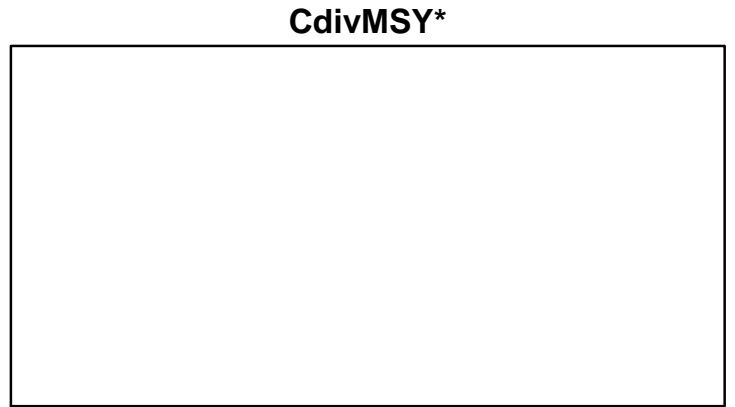
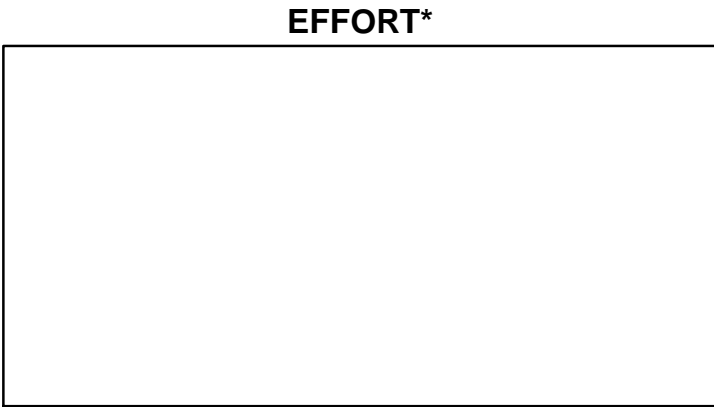
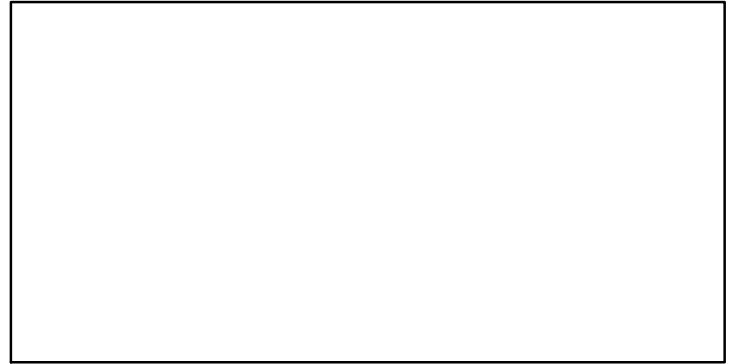
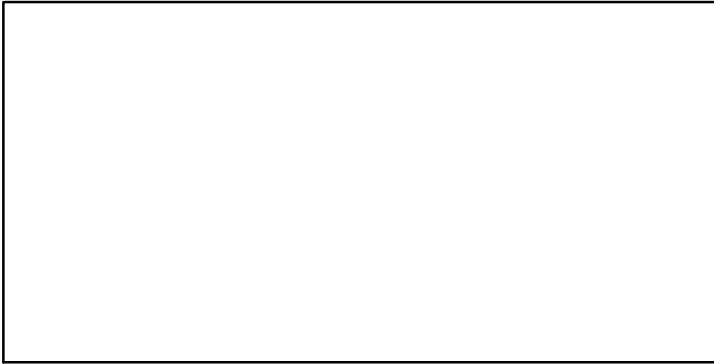
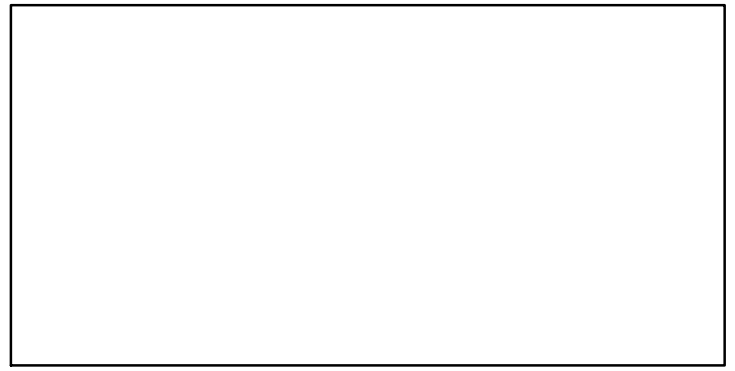
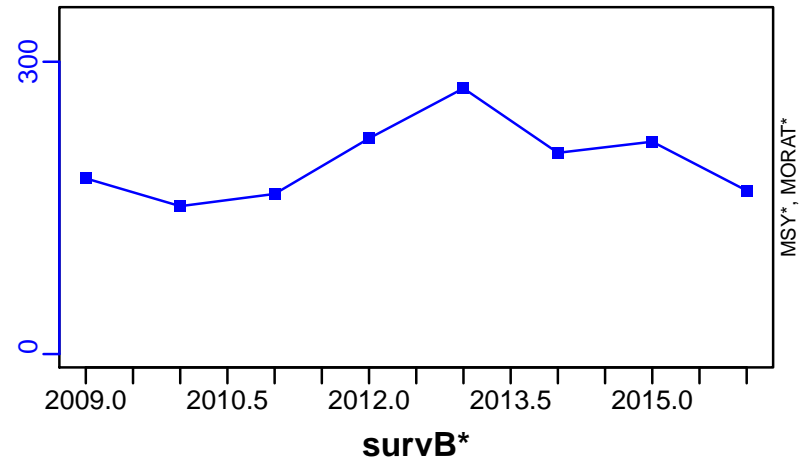
Recruits*



Blonde ray IVc and VIId [BLRAYIVc–VIId]

TL–MT, TC*, RecC* (2009–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



Blonde ray Portuguese Waters -East [BLRAYIXa]

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

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

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

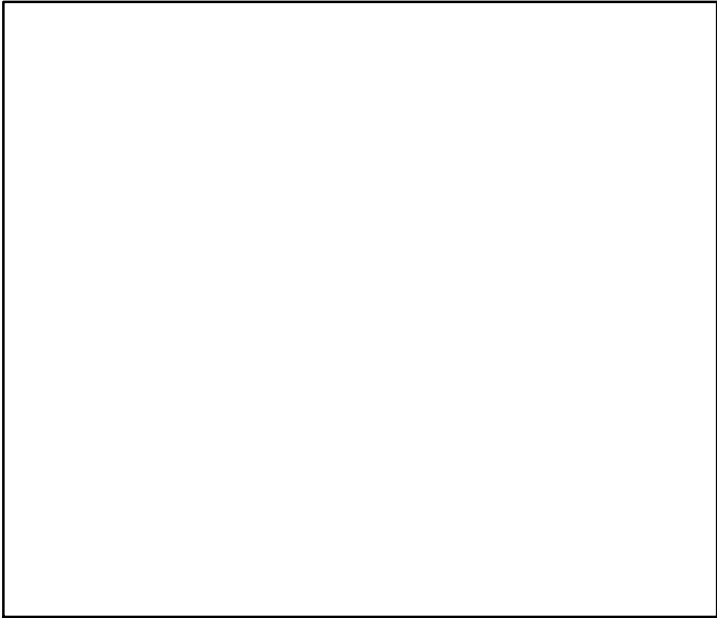
Kobe MSY*



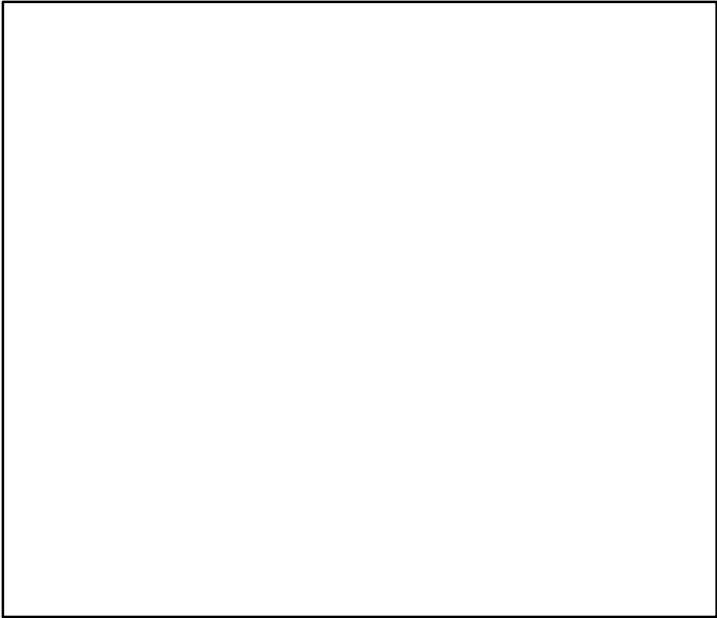
Kobe MGT*



Spawner Recruit*



Production*



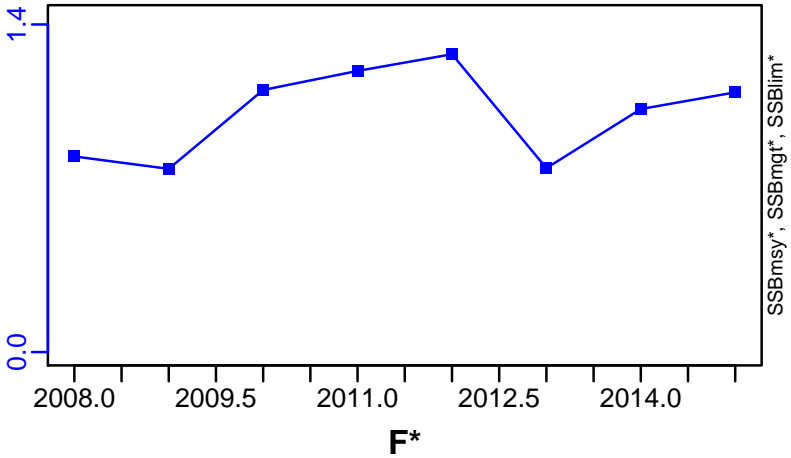
◆ Start Year ◆ End Year * No Data

Blonde ray Portugese Waters –East [BLRAYIXa]

TB*



SSB-MT (2005–2015–ICESIMP2018)



TN *



F*



ER*

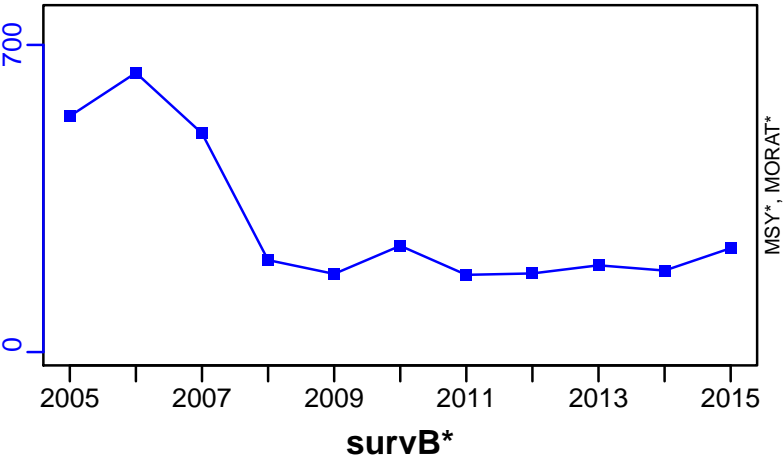


Recruits*



Blonde ray Portuguese Waters –East [BLRAYIXa]

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



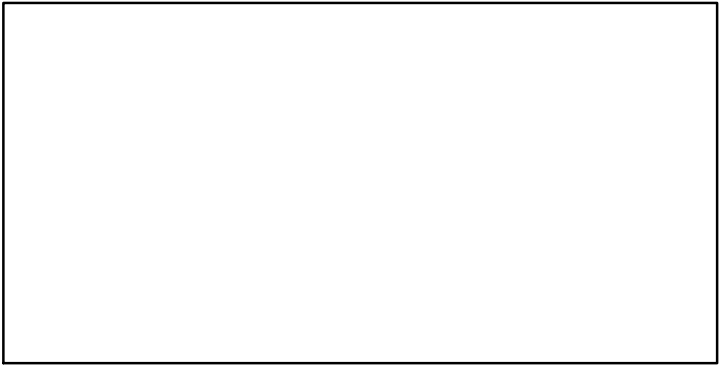
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

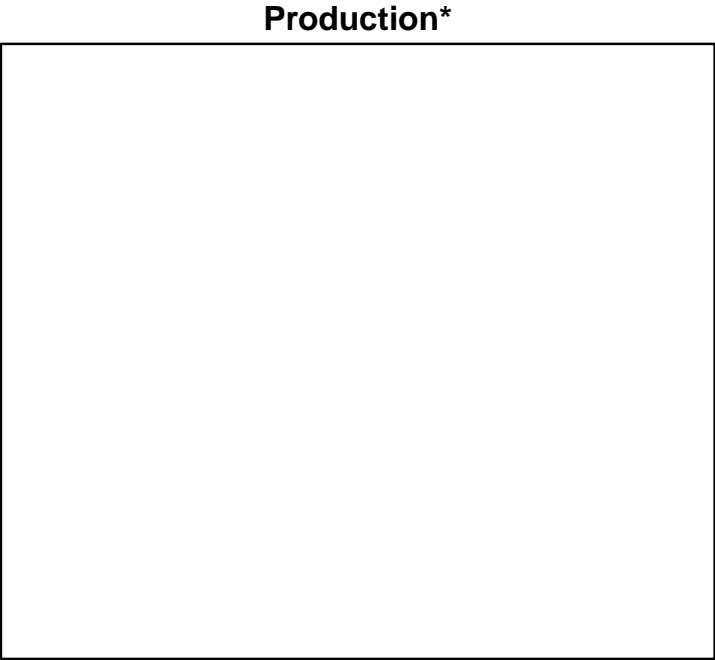
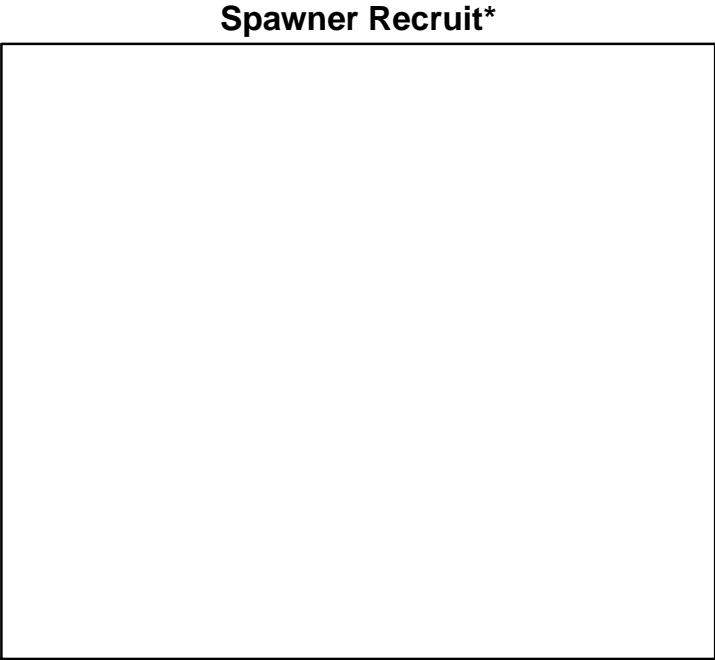
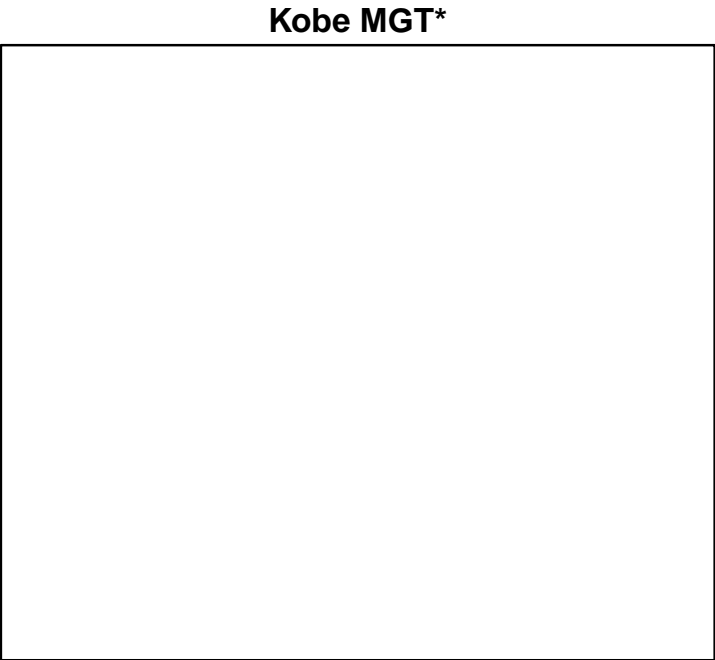
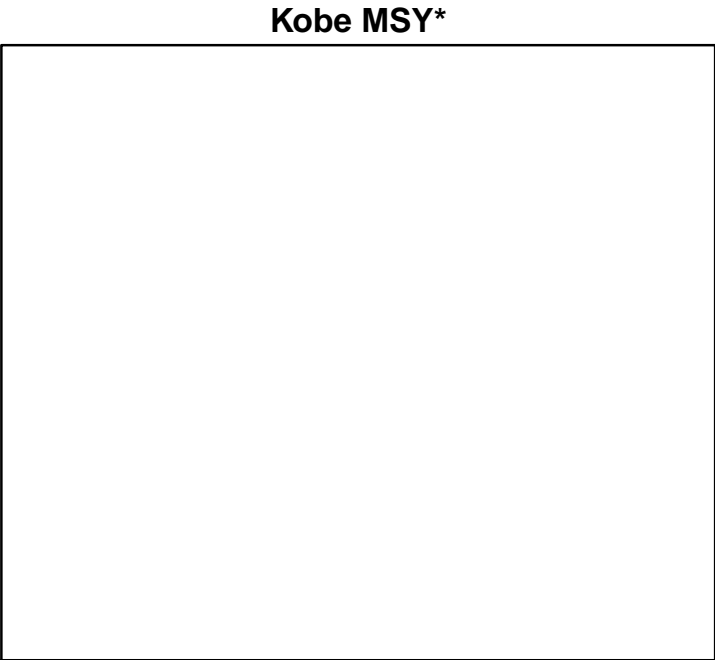


Blonde ray ICES VIIafg [BLRAYVIIafg]

Metadata	
Scientific Name	Raja brachyura
Current Assess ID	WGEF-BLRAYVIIafg-1993-2015-ICESIMP2018
Area	ICES VIIafg
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	-	-	-

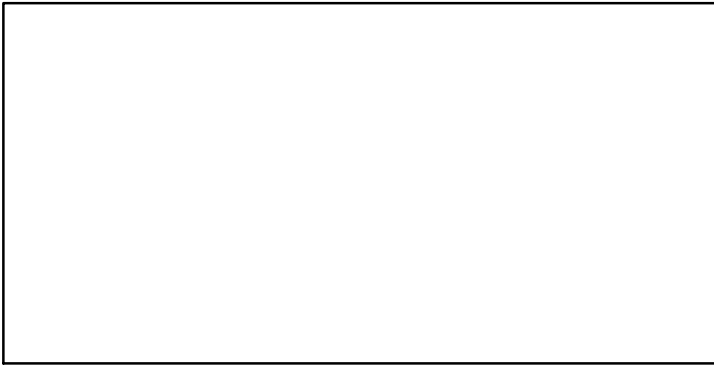
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	0.546	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	1170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



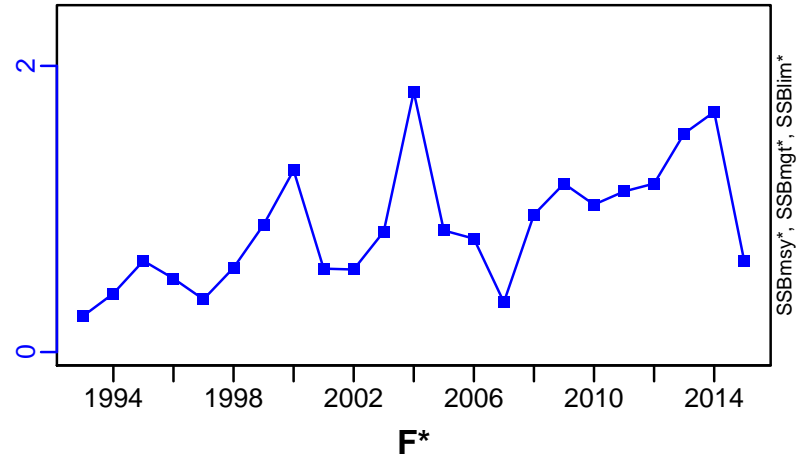
◆ Start Year ◆ End Year * No Data

Blonde ray ICES VIIafg [BLRAYVIIafg]

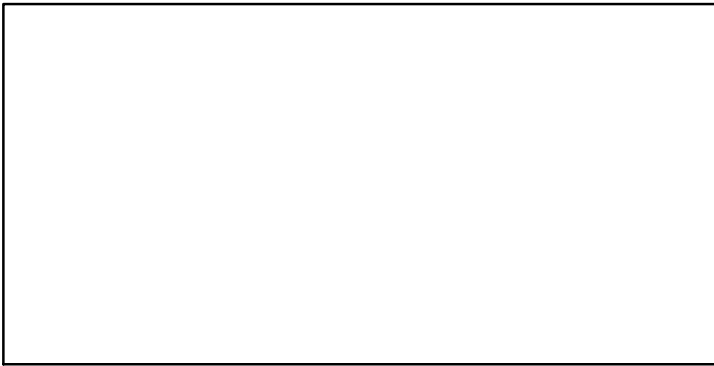
TB*



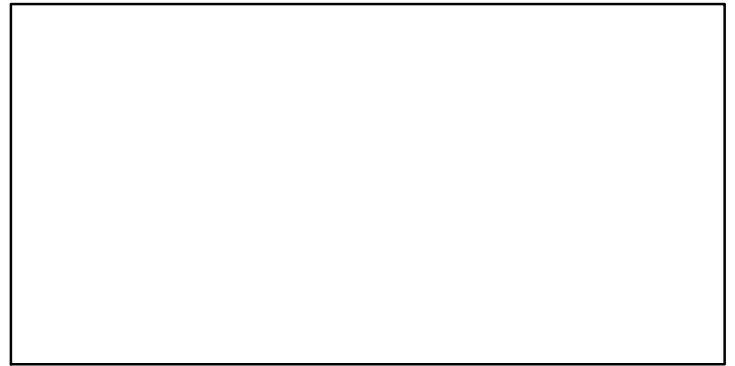
SSB-MT (1993–2015–ICESIMP2018)



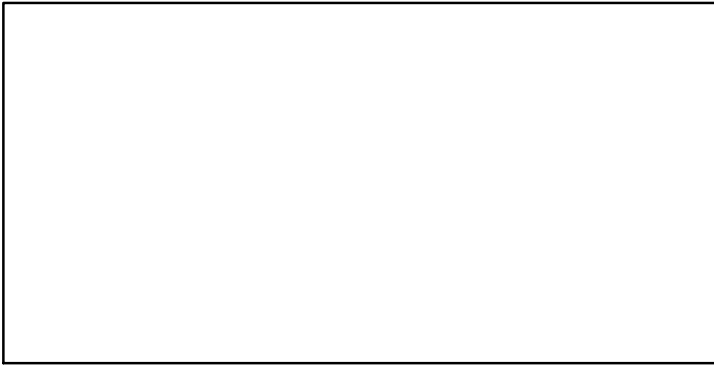
TN *



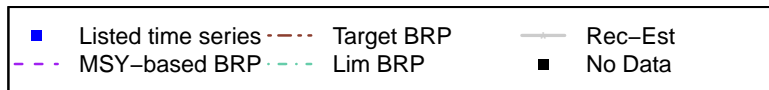
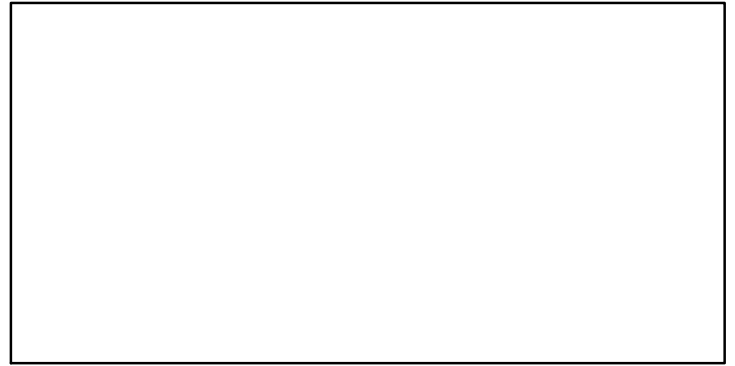
F*



ER*



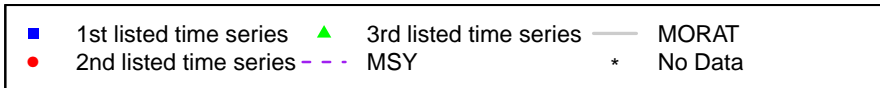
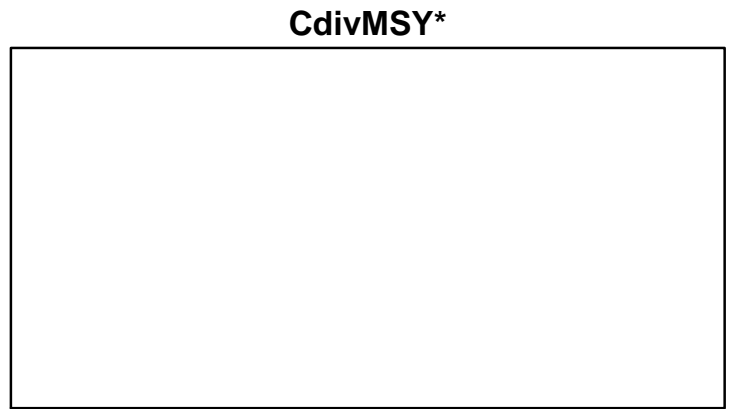
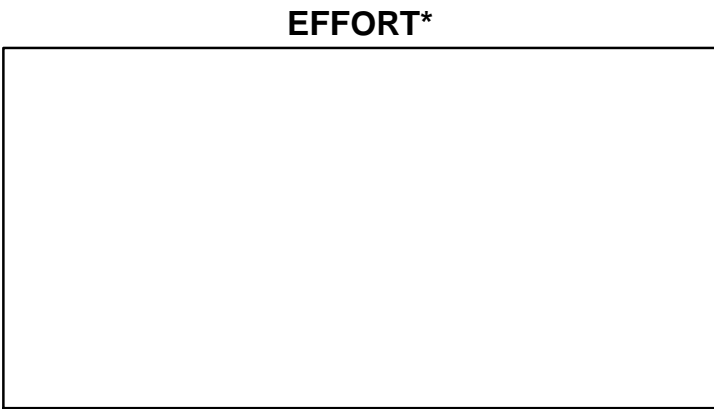
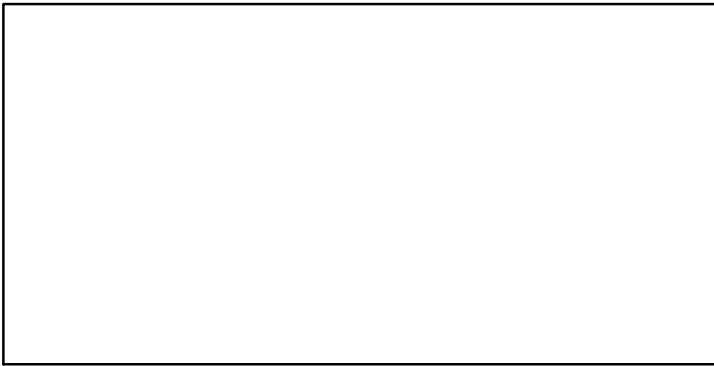
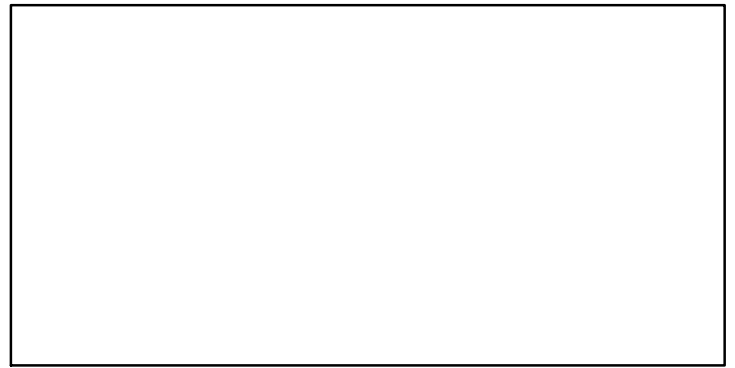
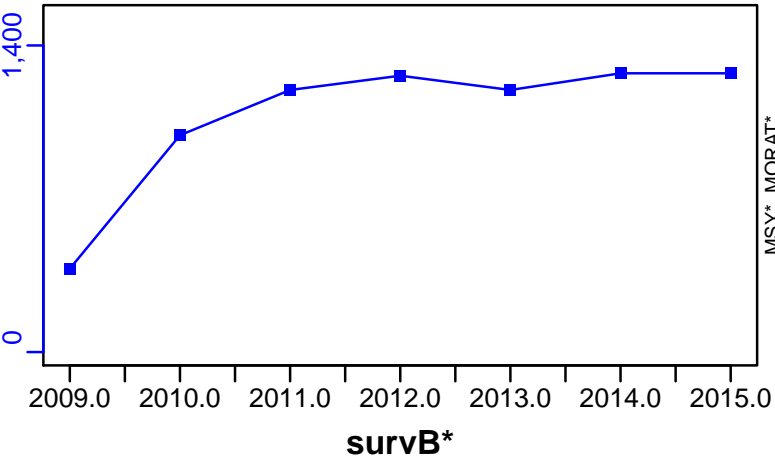
Recruits*



Blonde ray ICES VIIafg [BLRAYVIIafg]

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

TAC*, Cpair*, Cadv*



Blonde ray Western English Channel [BLRAYVIIe]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	731		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

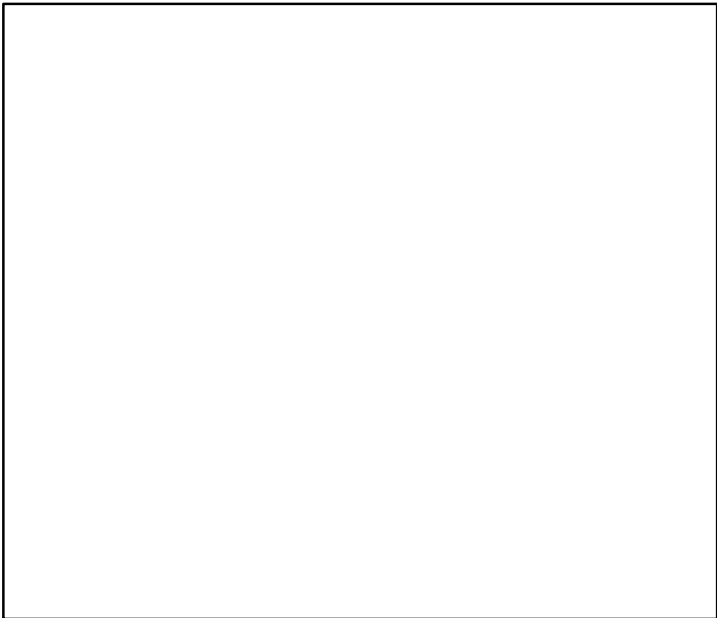
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



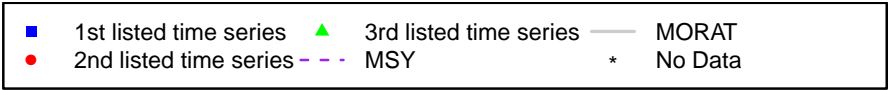
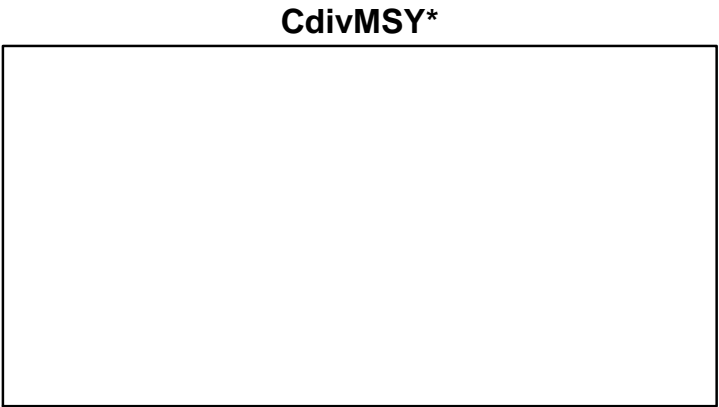
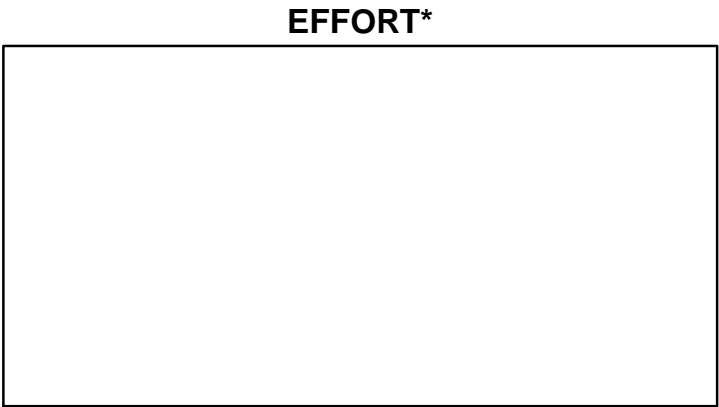
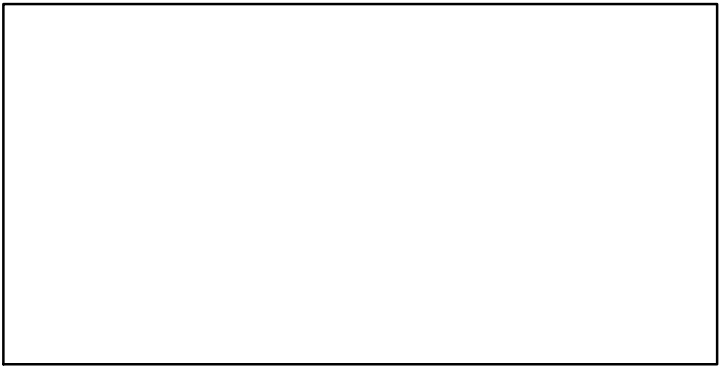
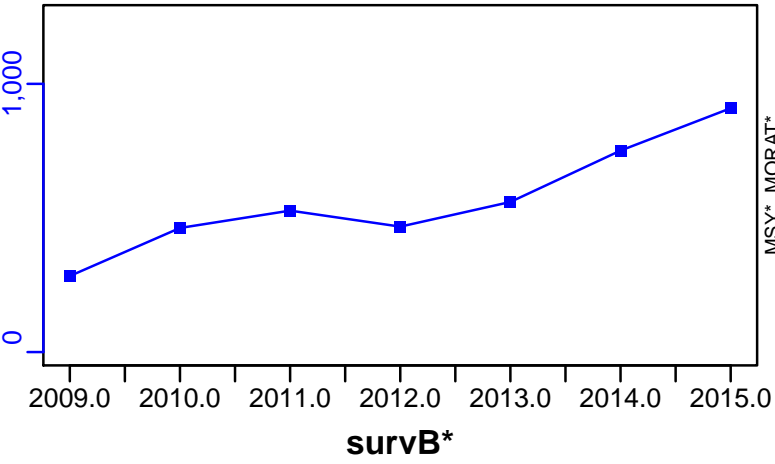
Recruits*



Blonde ray Western English Channel [BLRAYVIIe]

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

TAC*, Cpair*, Cadv*



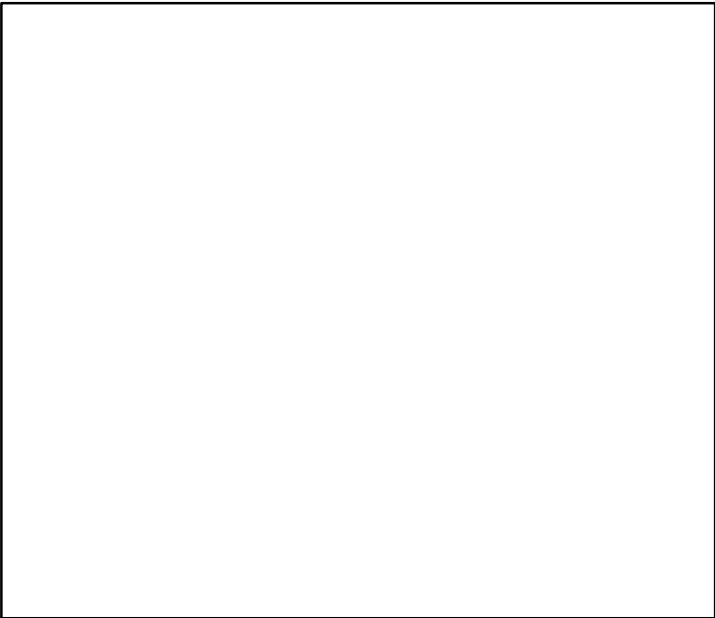
Blackmouth dogfish VIII and IXa [BMDOGVIII-IXa]

Metadata	
Scientific Name	Galeus melastomus
Current Assess ID	WGEF-BMDOGVIII-IXa-1997-2016-ICESIMP2018
Area	VIII and IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2014	1.2	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	169		
TL	TL-MT	2016	167		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

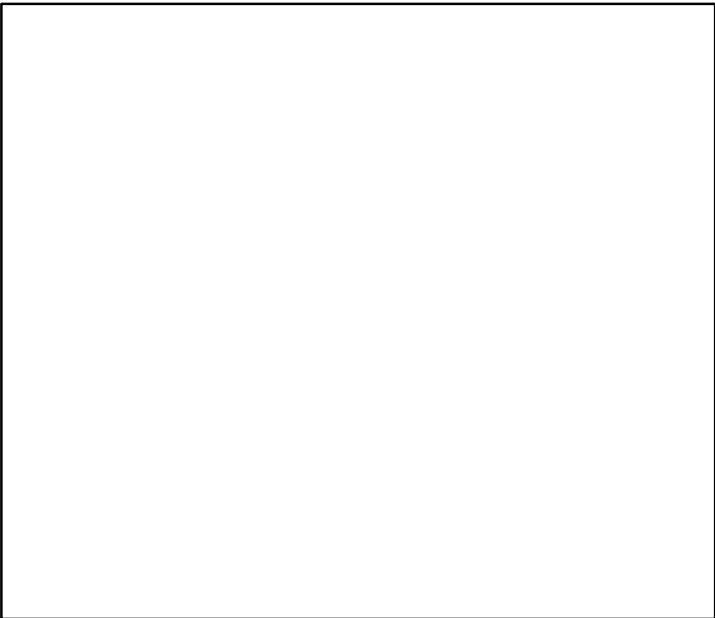
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



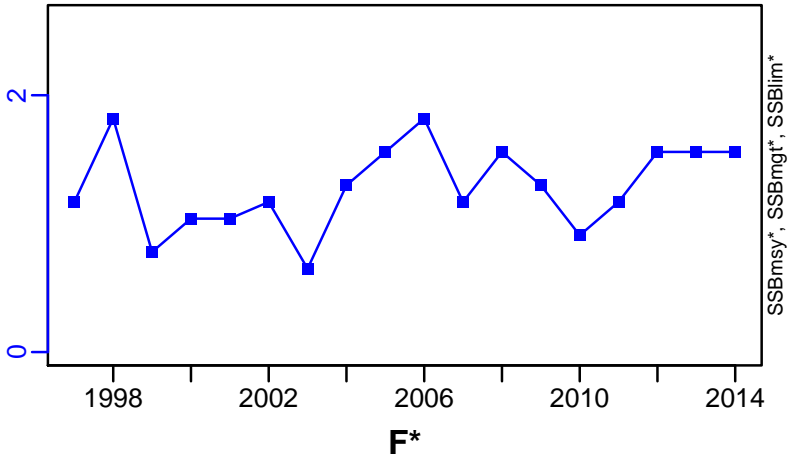
◆ Start Year ◆ End Year * No Data

Blackmouth dogfish VIII and IXa [BMDOGVIII-IXa]

TB*



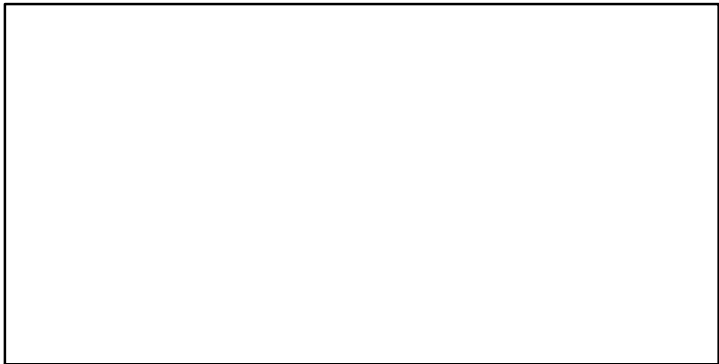
SSB-MT (1997–2014–ICESIMP2018)



TN *



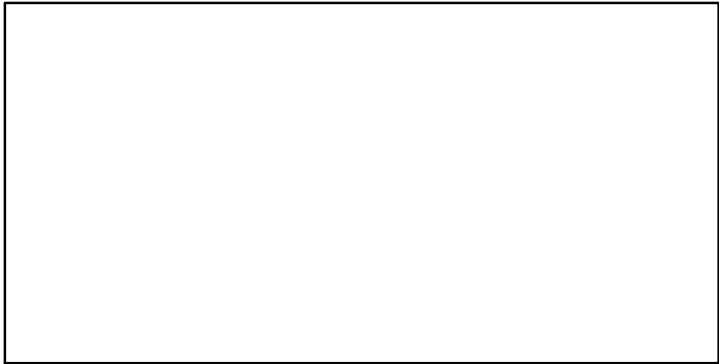
F*



ER*



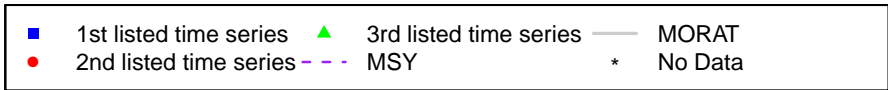
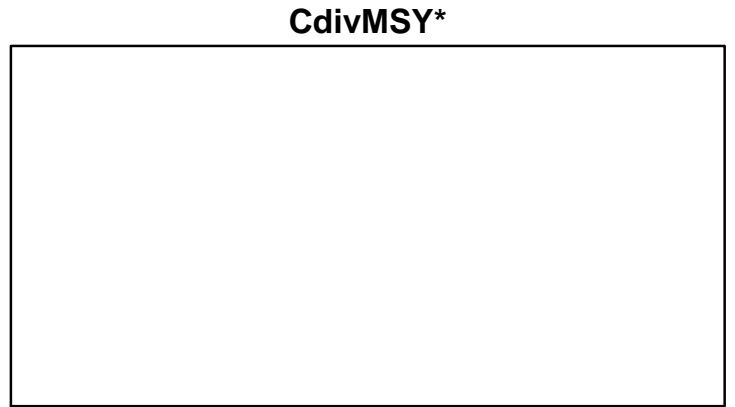
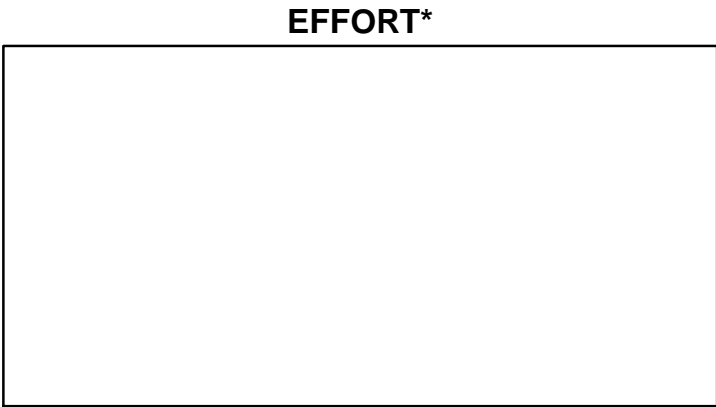
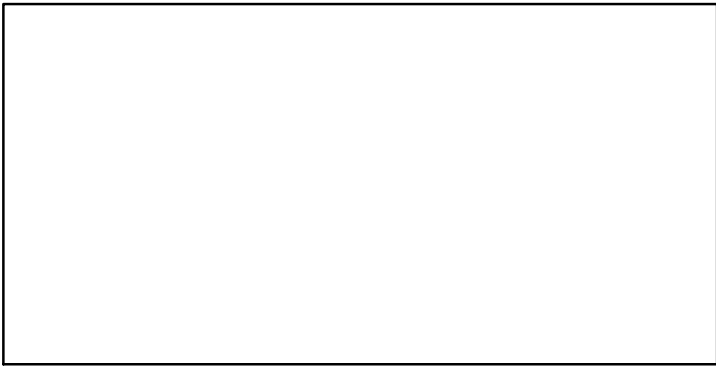
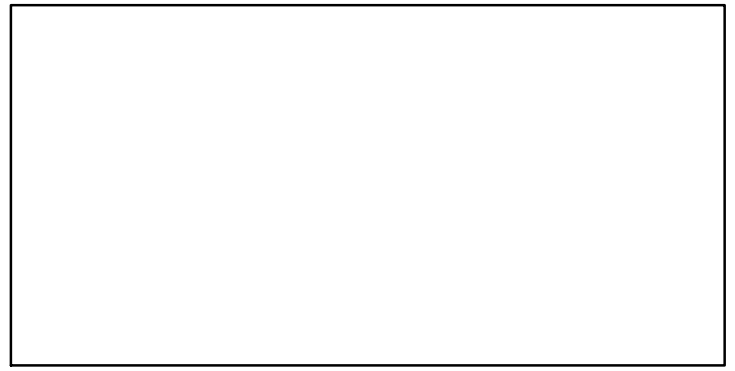
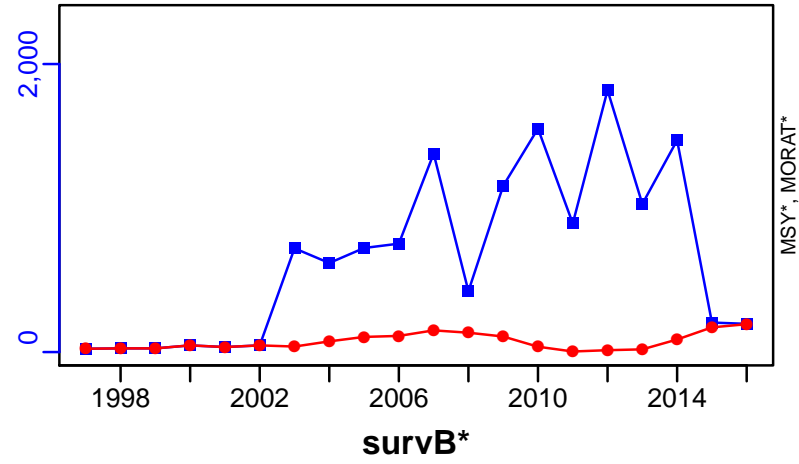
Recruits*



Blackmouth dogfish VIII and IXa [BMDOGVIII-IXa]

TC-MT, TL-MT, RecC* (1997-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



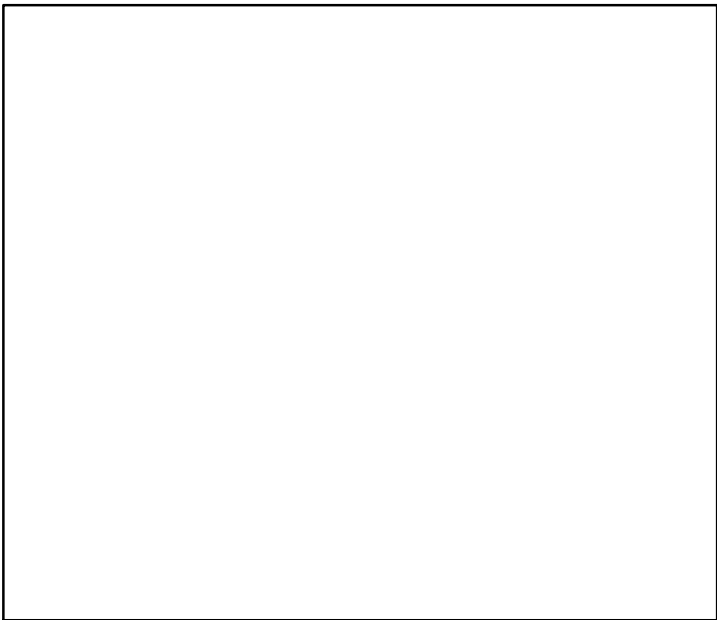
Blackmouth dogfish ICES VI-VII [BMDOGVI-VII]

Metadata	
Scientific Name	Galeus melastomus
Current Assess ID	WGEF-BMDOGVI-VII-2005-2016-ICESIMP2018
Area	ICES VI-VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2014	2.1	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	0.132		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

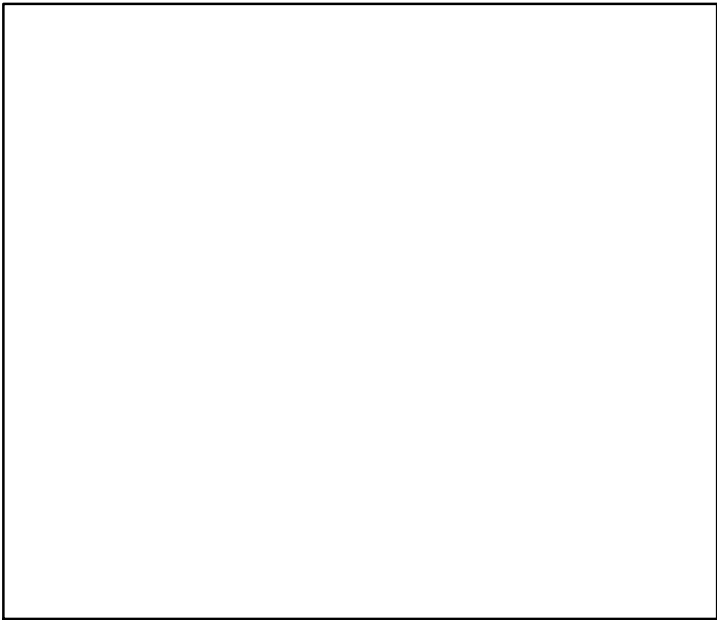
Kobe MSY*



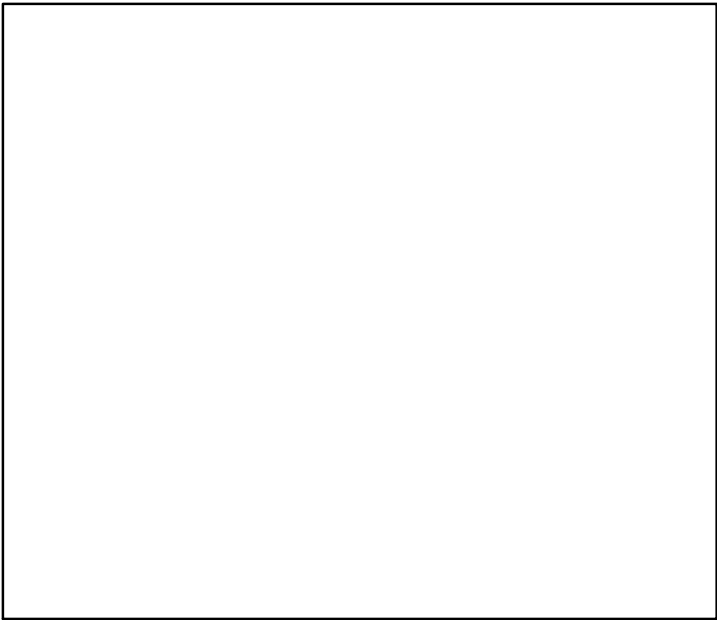
Kobe MGT*



Spawner Recruit*



Production*



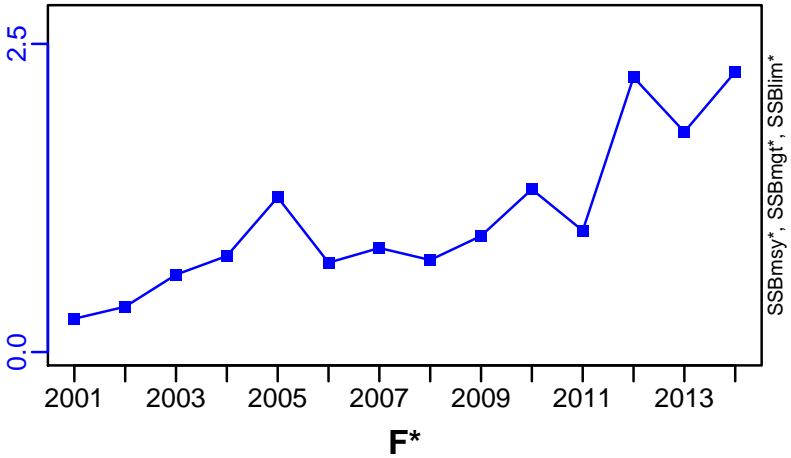
◆ Start Year ◆ End Year * No Data

Blackmouth dogfish ICES VI–VII [BMDOGVI–VII]

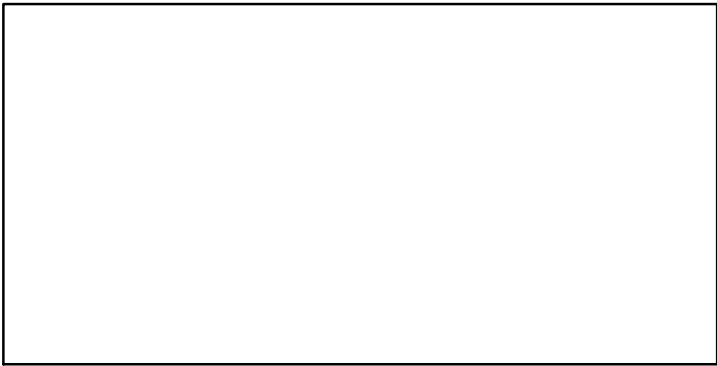
TB*



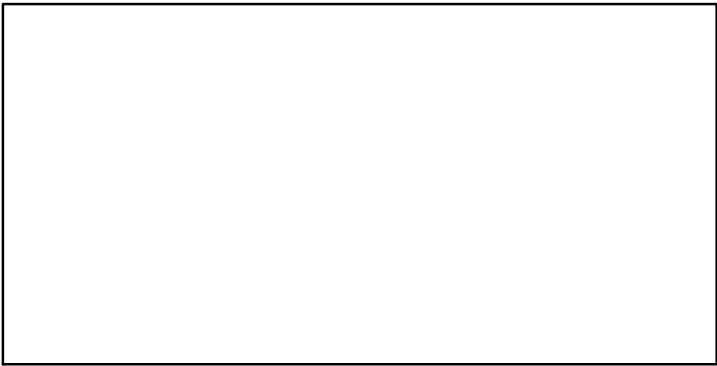
SSB-MT (2001–2014–ICESIMP2018)



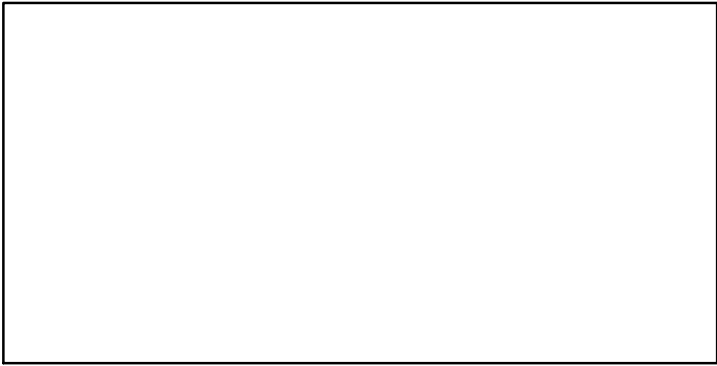
TN *



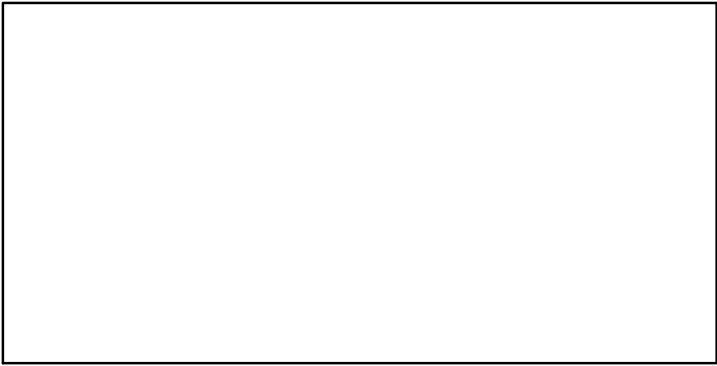
F*



ER*



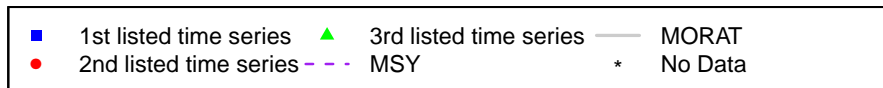
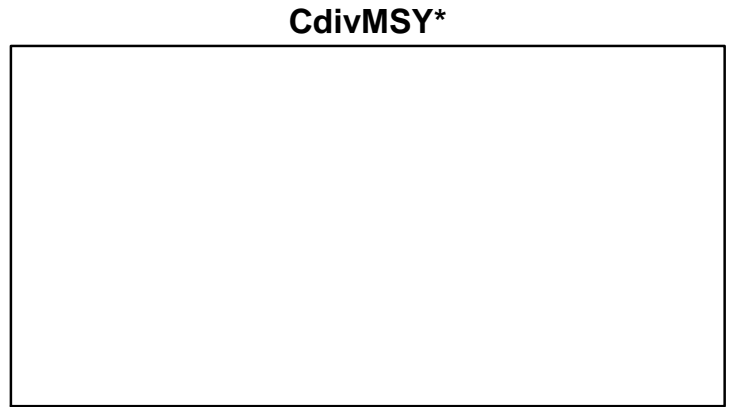
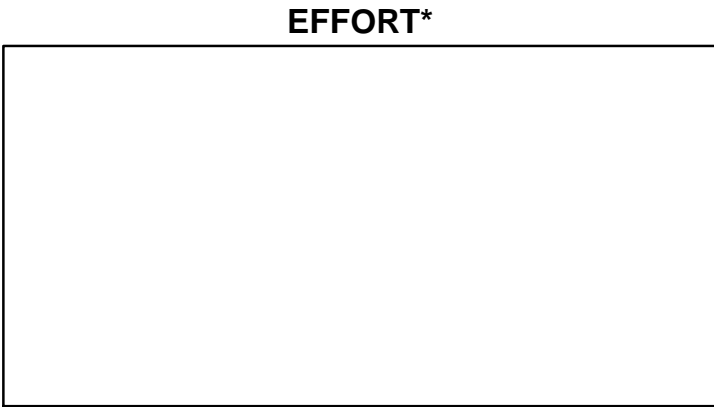
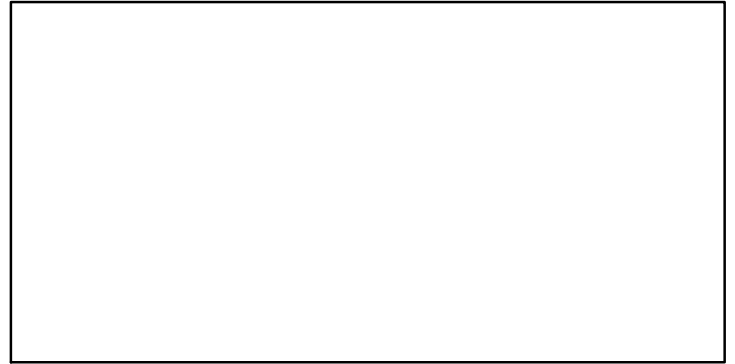
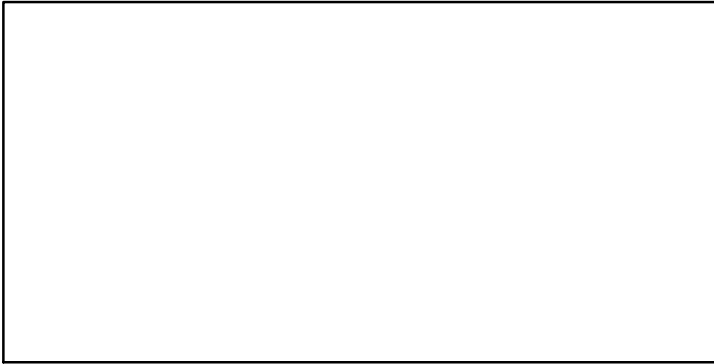
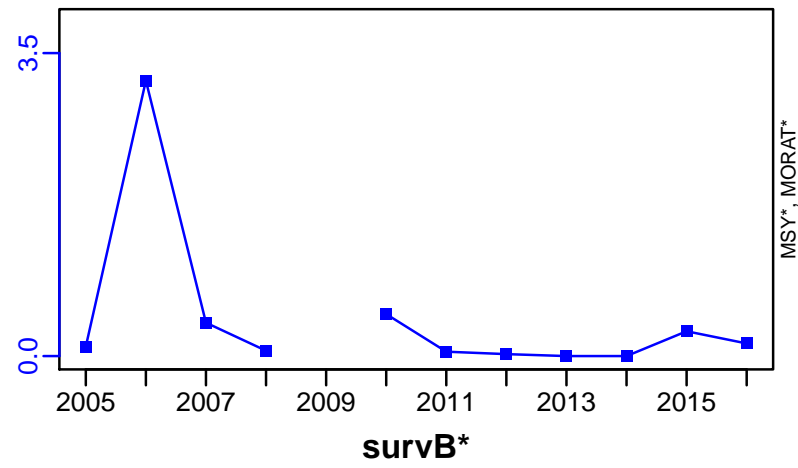
Recruits*



Blackmouth dogfish ICES VI–VII [BMDOGVI–VII]

TL–MT, TC*, RecC* (2005–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



Boarfish VI and VIII [BOARVI-VIII]

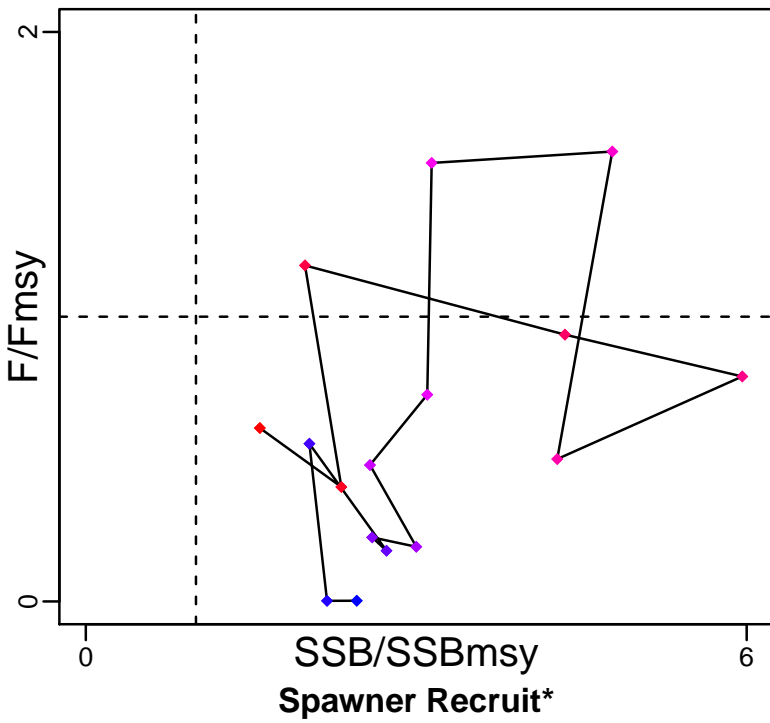
Metadata	
Scientific Name	Capros aper
Current Assess ID	WGWIDE-BOARVI-VIII-1991-2017-ICESIMP2018
Area	VI and VIII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2013, 2014, 2016, 2017, 2015

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

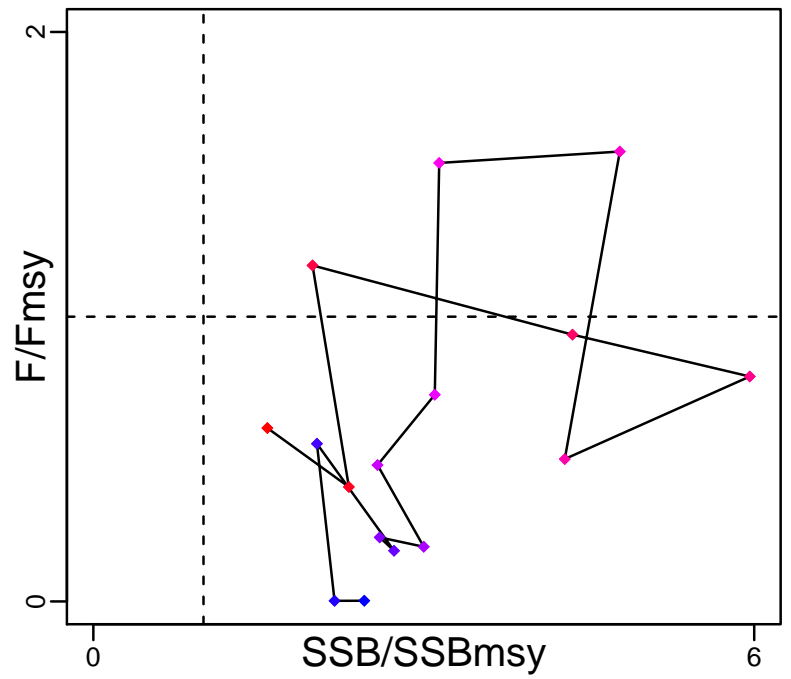
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	0.262	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2016	0.581	-	-
ER	ER-calc-ratio	2016	22,523	-	-
TC	TC-MT	2017	19,300		
TL	TL-MT	2017	18,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2017	1.96		
F/Fmsy	FdivFmsy-dimensionless	2017	0.609		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Boarfish VI and VIII [BOARVI-VIII]

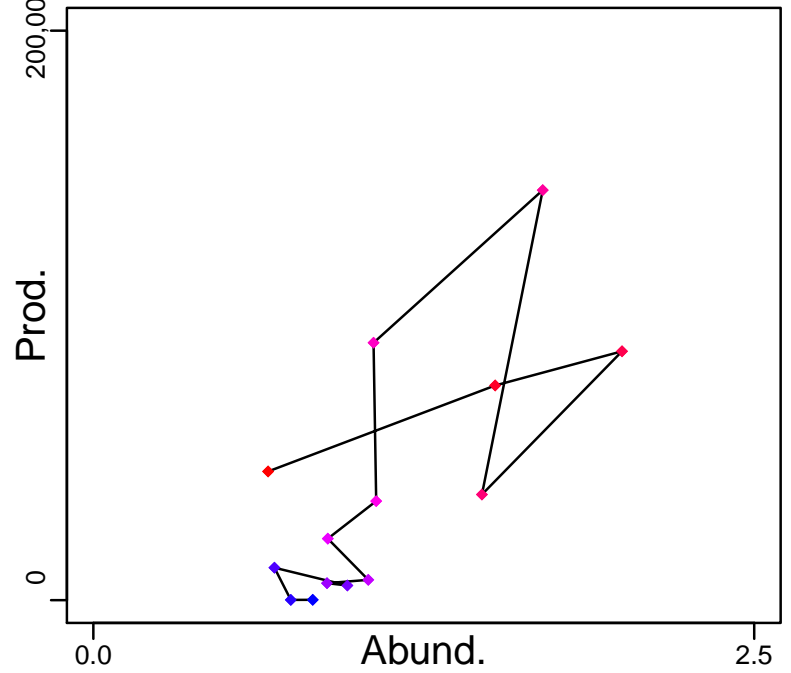
Kobe MSYpref (1991–2017–ICESIMP2018)



Kobe MGTpref (1991–2017–ICESIMP2018)



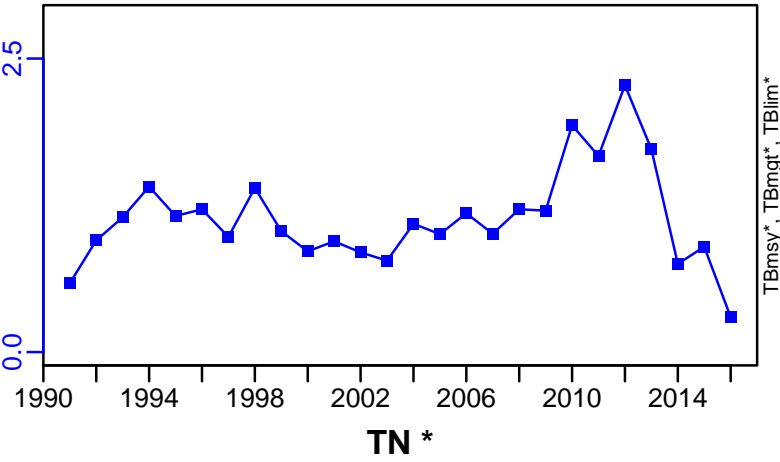
Production (1991–2016–ICESIMP2018)



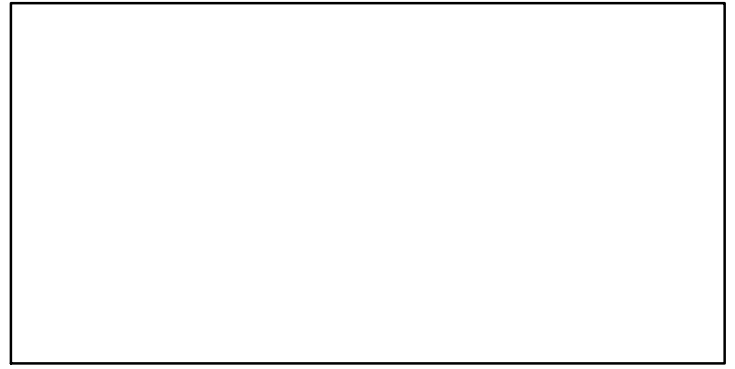
◆ Start Year ◆ End Year * No Data

Boarfish VI and VIII [BOARVI–VIII]

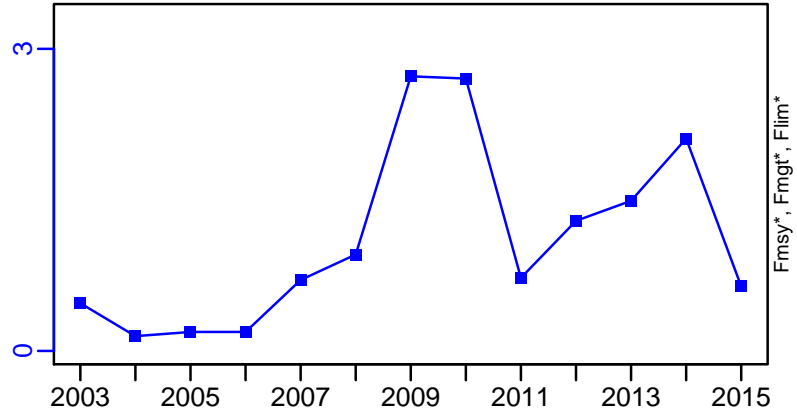
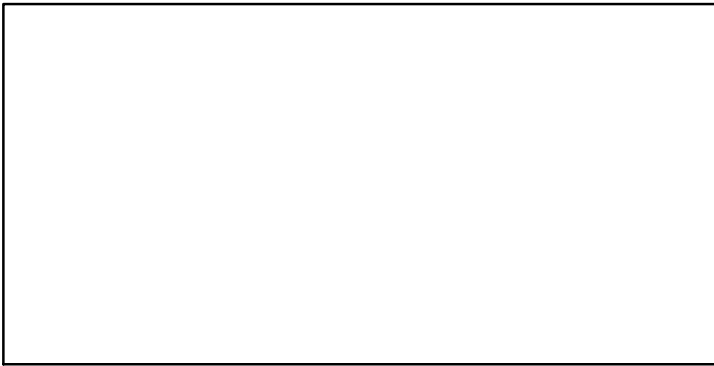
TB–MT (1991–2016–ICESIMP2018)



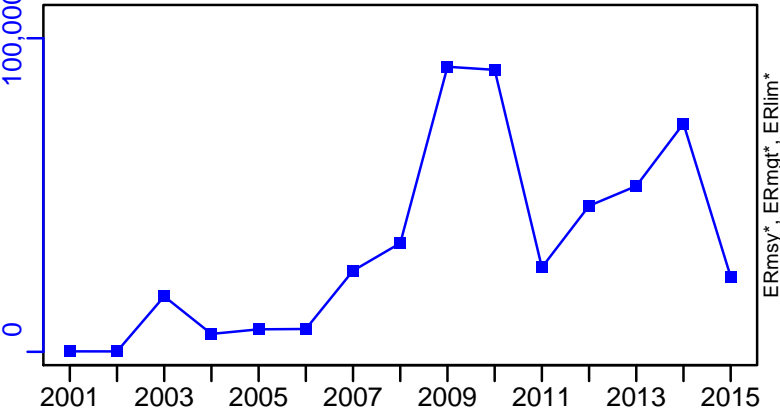
SSB*



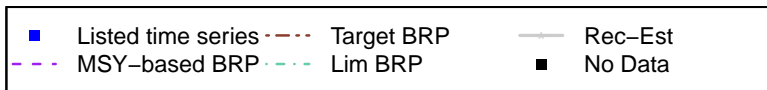
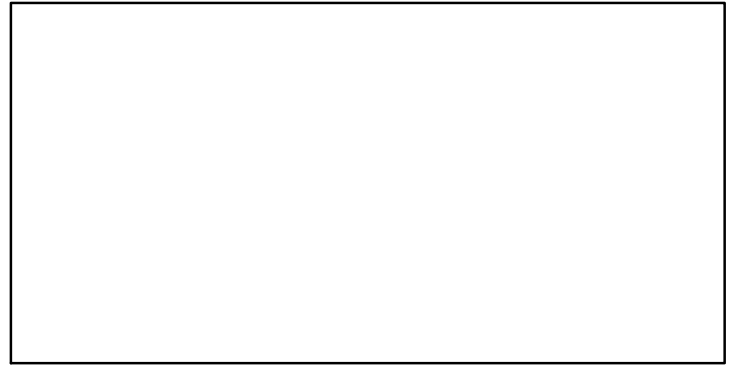
F–relative (1991–2016–ICESIMP2018)



ER–calc–ratio (1991–2016–ICESIMP2018)

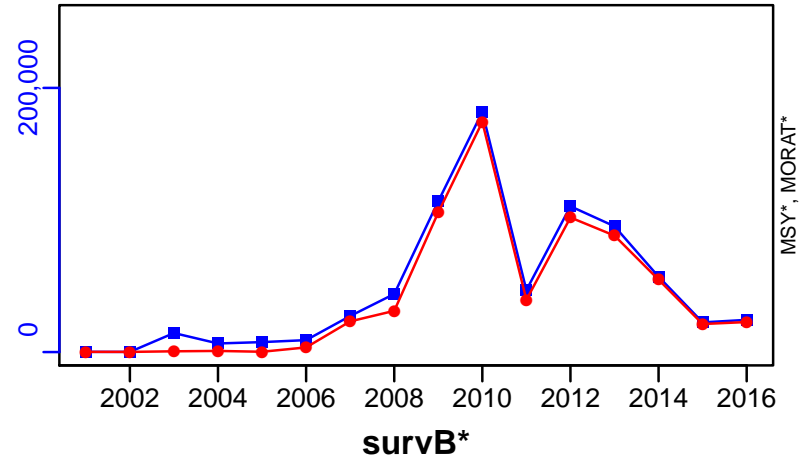


Recruits*

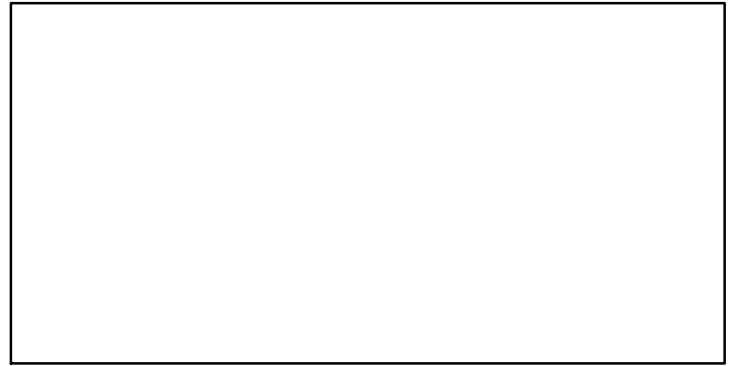


Boarfish VI and VIII [BOARVI–VIII]

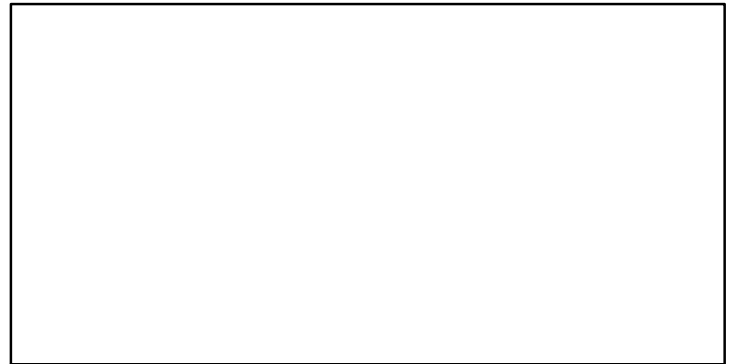
TC–MT, TL–MT, RecC* (1991–2017–ICESIMP2018)



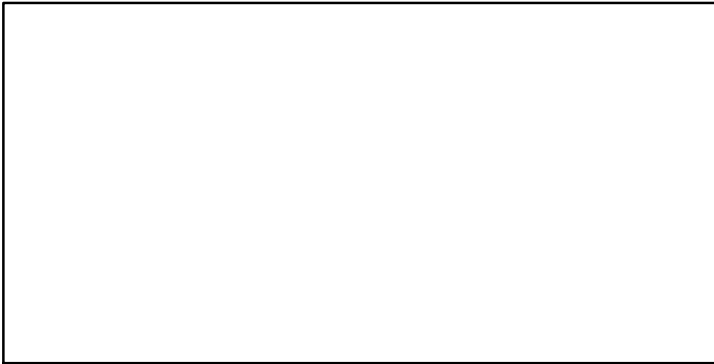
TAC*, Cpair*, Cadv*



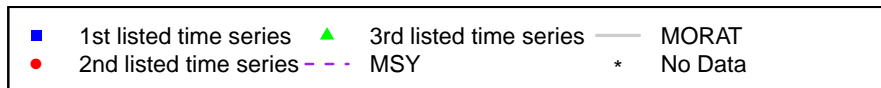
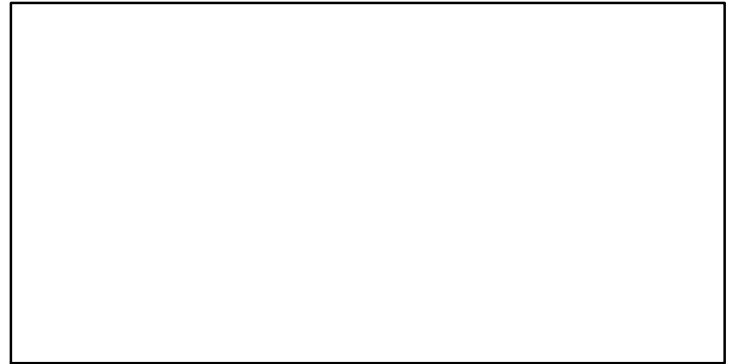
CPUE*



EFFORT*



CdivMSY*



Brill Baltic Areas 22-32 [BRILL2232]

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

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

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

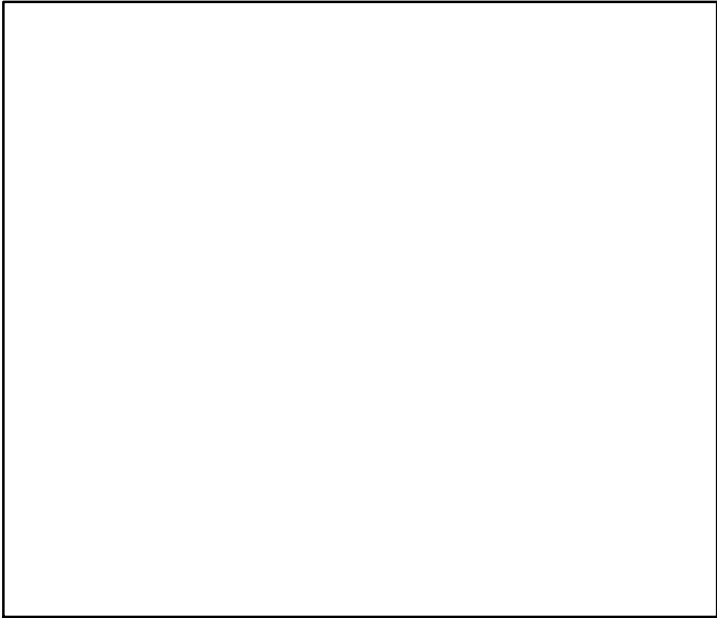
Kobe MSY*



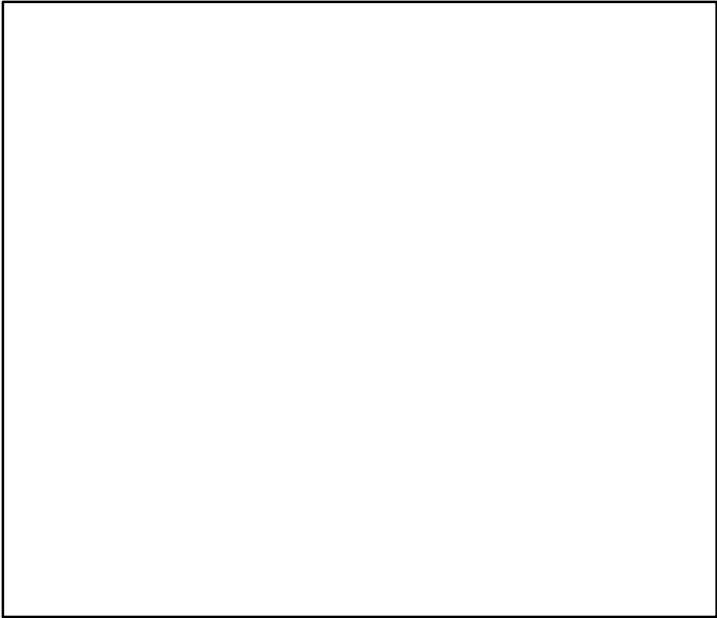
Kobe MGT*



Spawner Recruit*



Production*

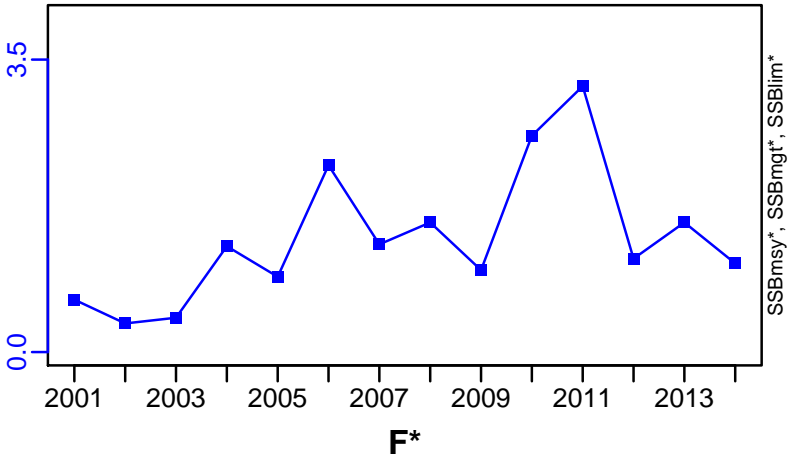


◆ Start Year ◆ End Year * No Data

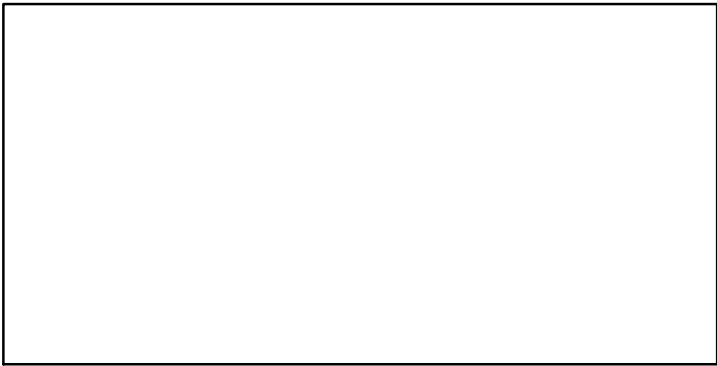
TB*



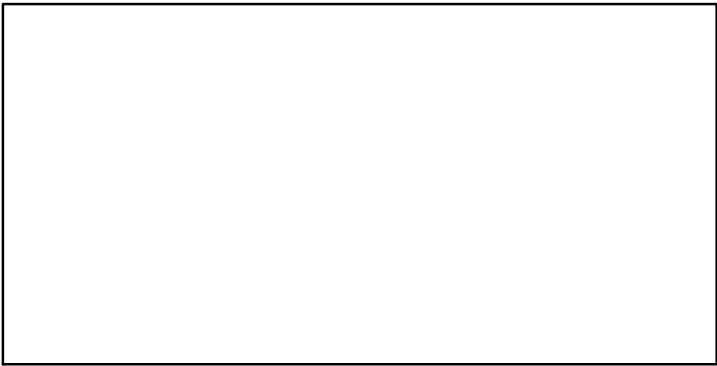
SSB-MT (1970–2014–ICESIMP2018)



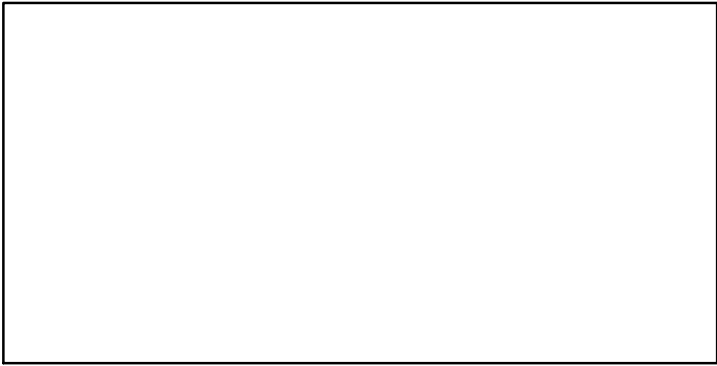
TN *



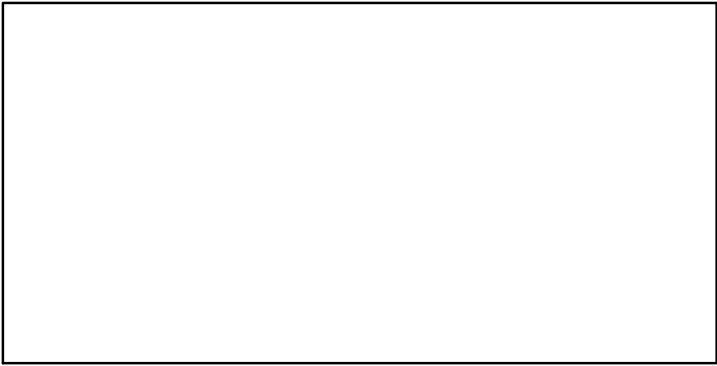
F*



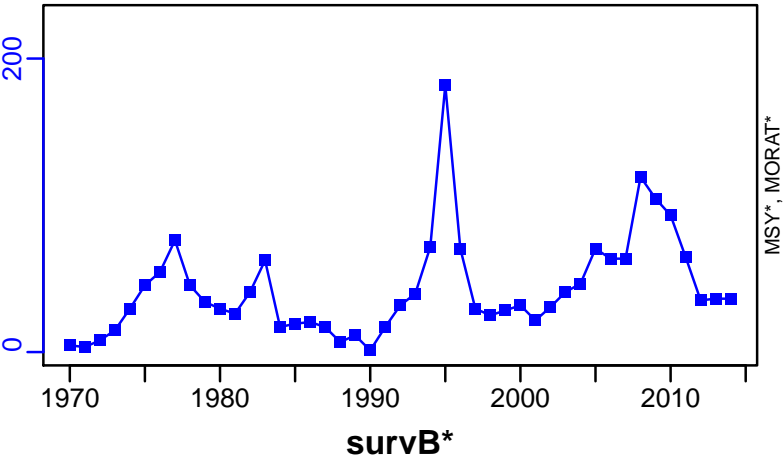
ER*



Recruits*



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



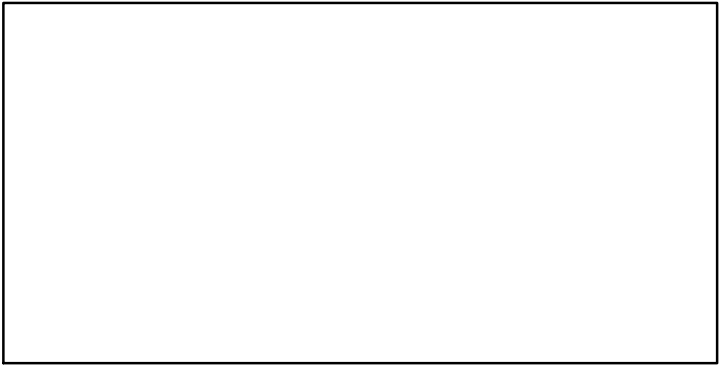
TAC*, Cpair*, Cadv*



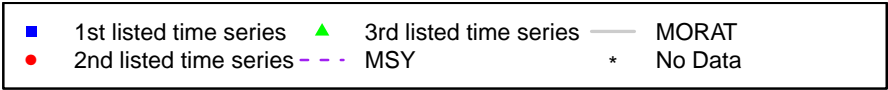
CPUE*



EFFORT*



CdivMSY*



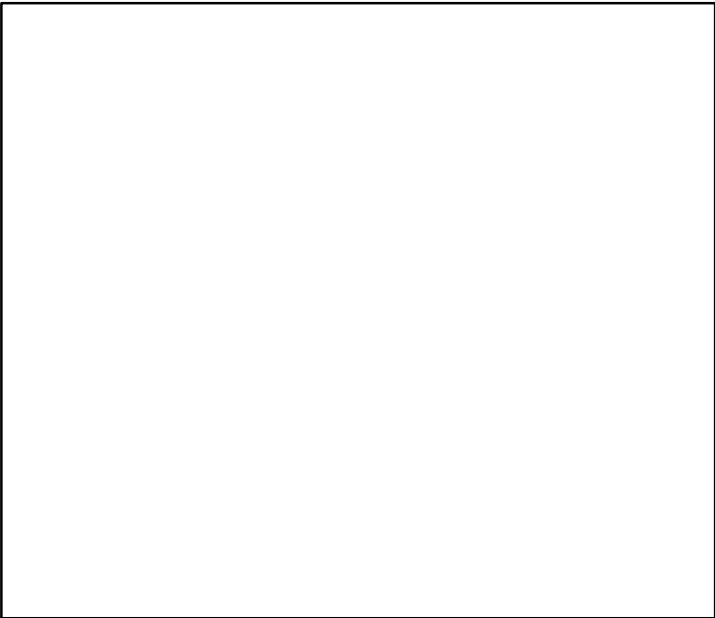
Brill IIIa, VIId and North Sea [BRILLIIIa-IV-VIId]

Metadata	
Scientific Name	Scophthalmus rhombus
Current Assess ID	WGNSSK-BRILLIIIa-IV-VIId-1950-2016-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	46	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2620		
TL	TL-MT	2016	2440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

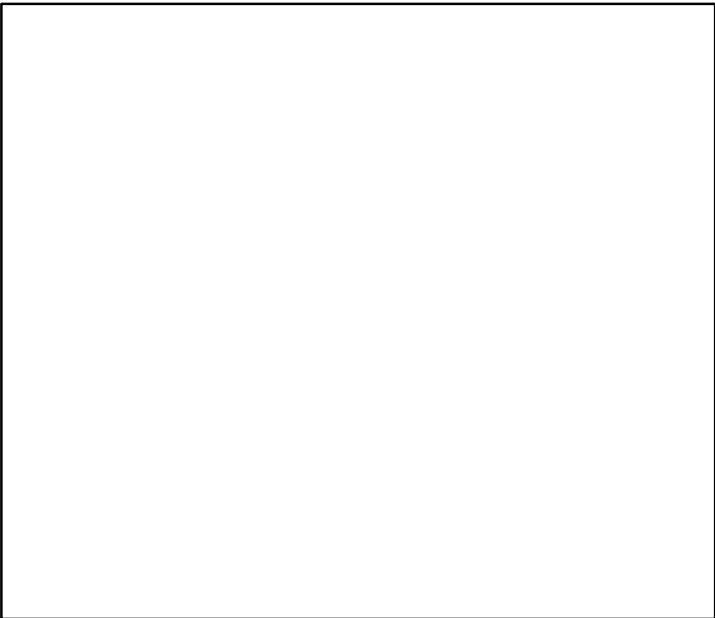
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

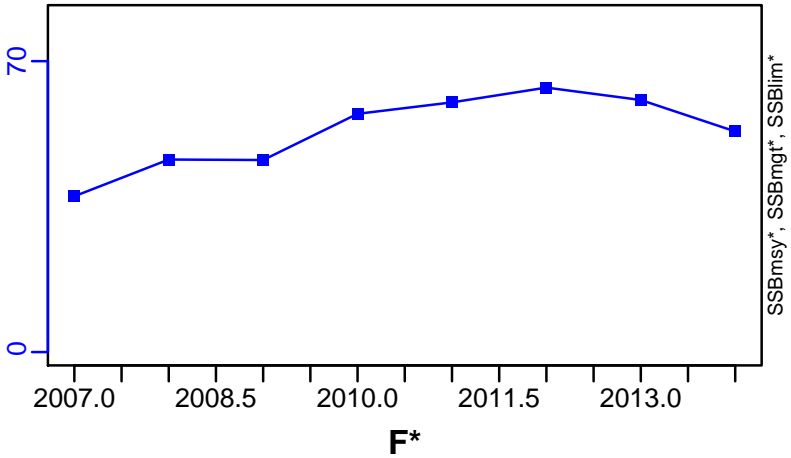


◆ Start Year ◆ End Year * No Data

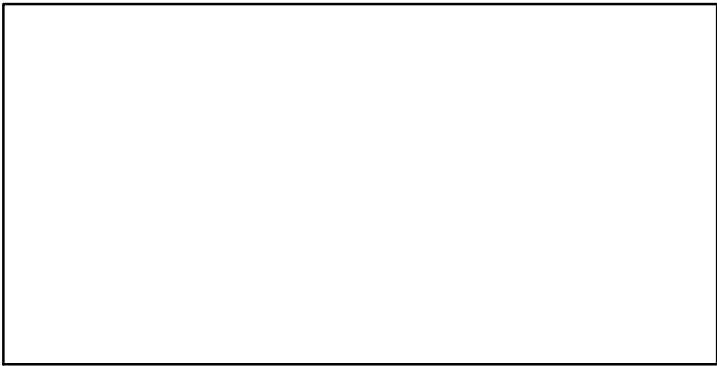
TB*



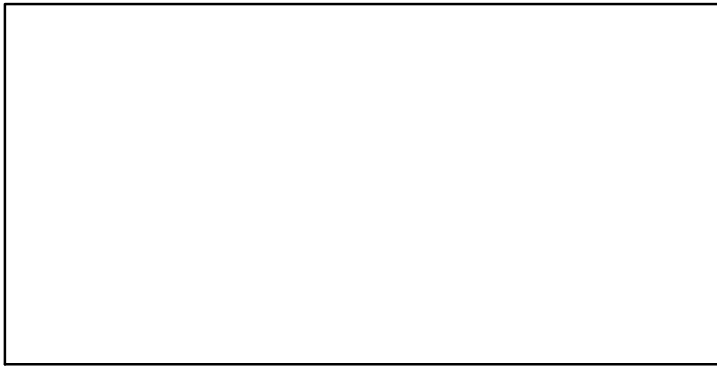
SSB-MT (1950–2014–ICESIMP2018)



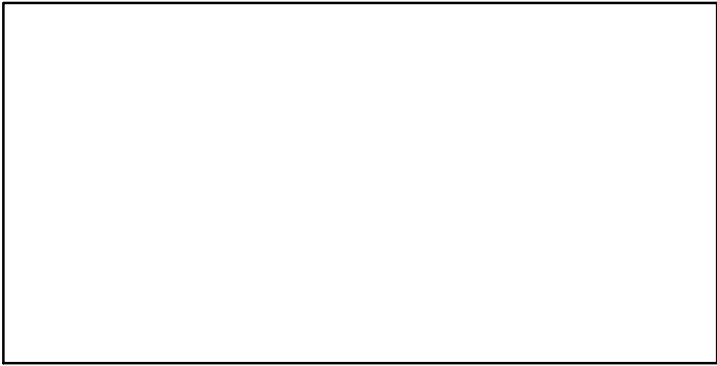
TN *



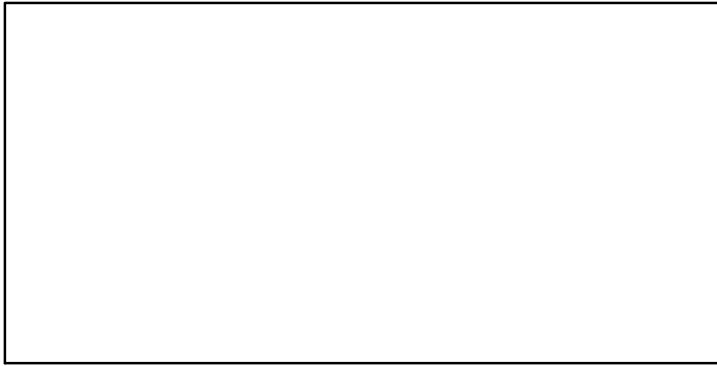
F*



ER*

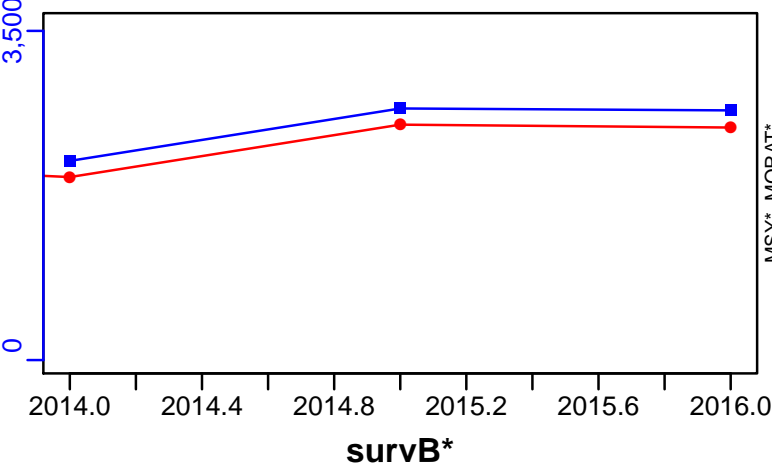


Recruits*



Brill IIIa, VIId and North Sea [BRILLIIIa-IV-VIId]

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



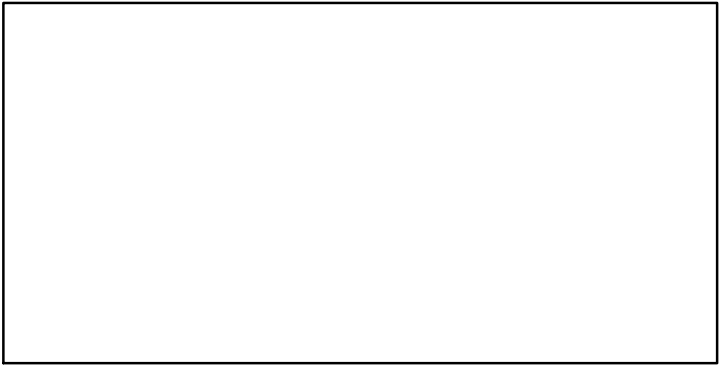
TAC*, Cpair*, Cadv*



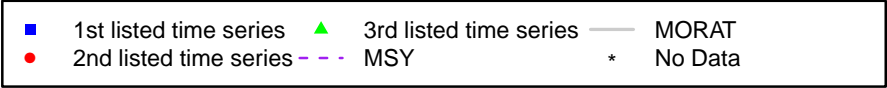
CPUE*



EFFORT*



CdivMSY*



Basking shark Northeast Atlantic [BSKSHARNEATL]

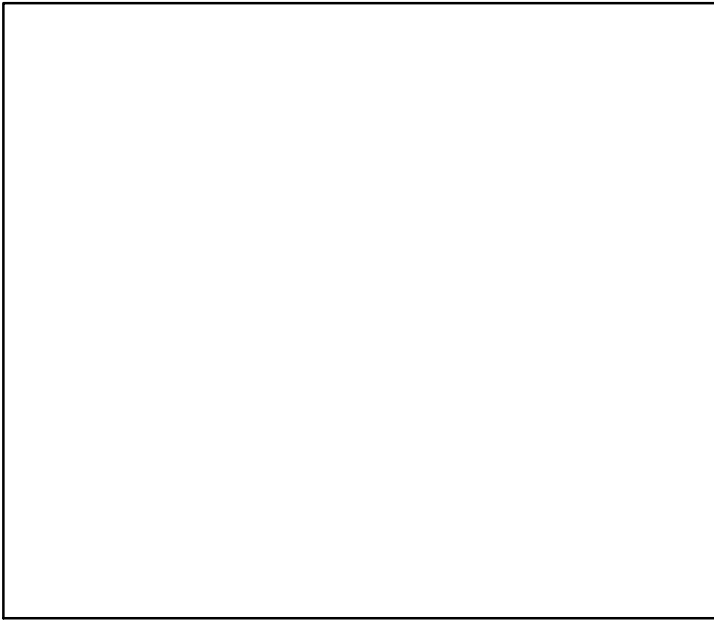
Metadata	
Scientific Name	Cetorhinus maximus
Current Assess ID	WGEF-BSKSHARNEATL-1977-2014-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

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

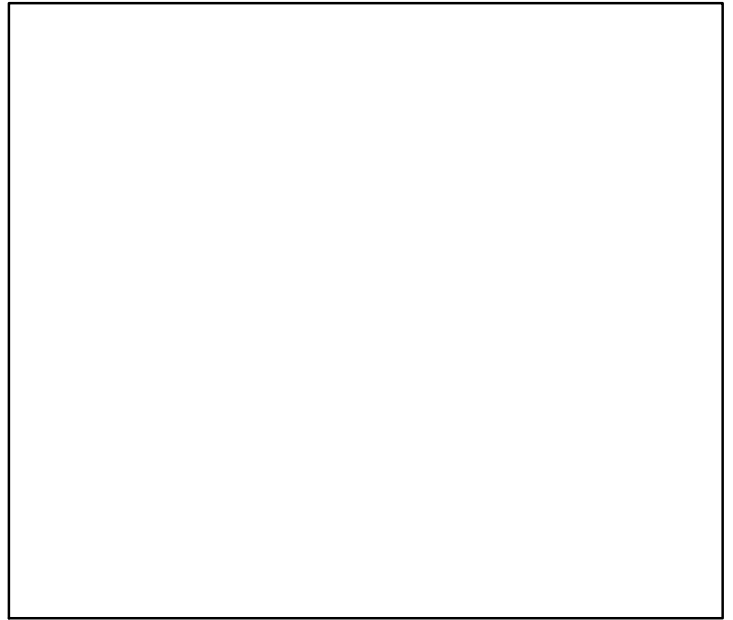
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Basking shark Northeast Atlantic [BSKSHARNEATL]

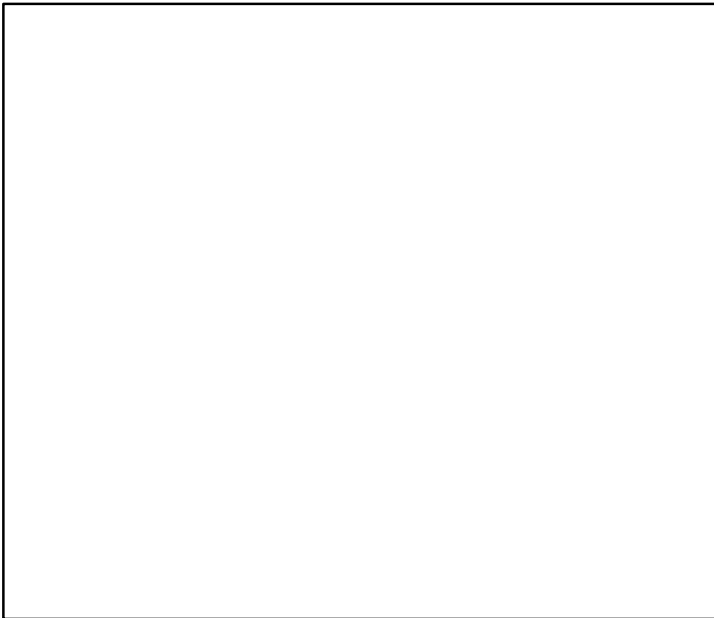
Kobe MSY*



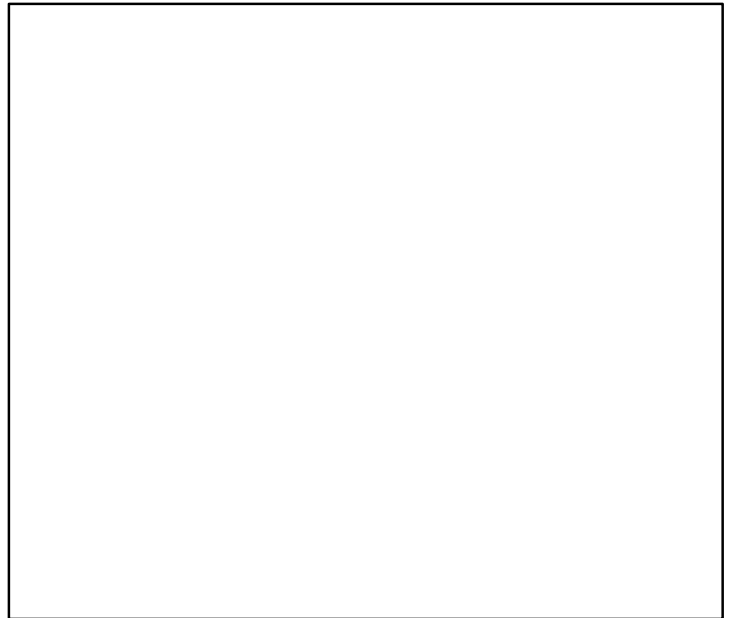
Kobe MGT*



Spawner Recruit*



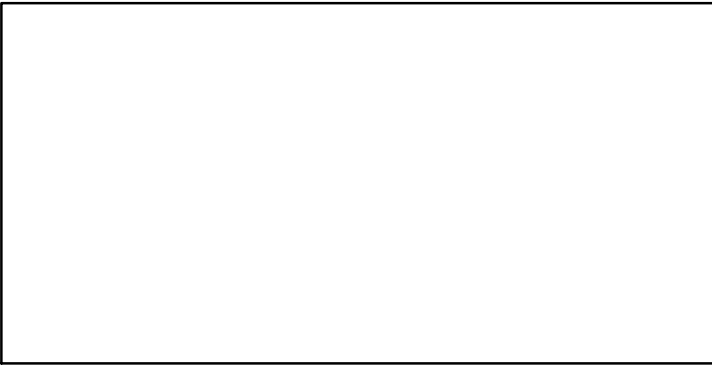
Production*



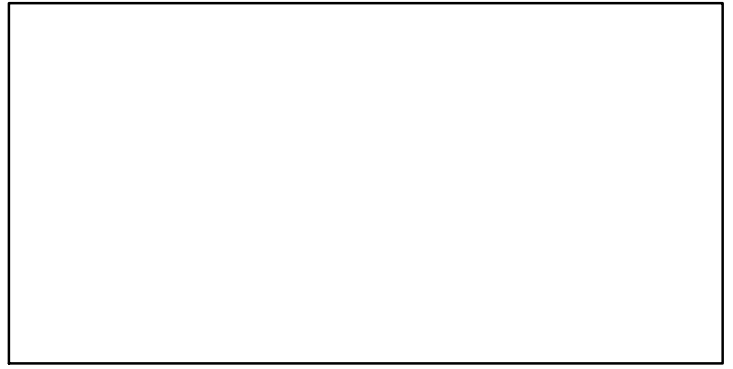
◆ Start Year ◆ End Year * No Data

Basking shark Northeast Atlantic [BSKSHARNEATL]

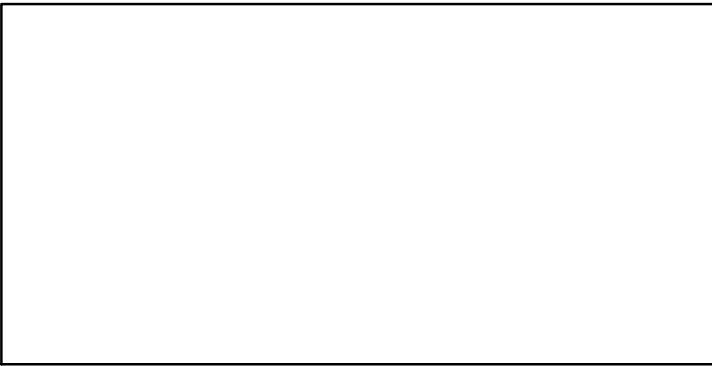
TB*



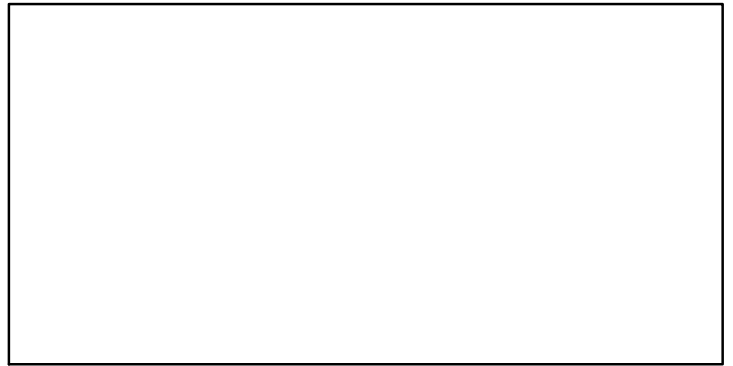
SSB*



TN *



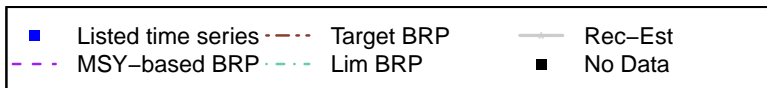
F*



ER*



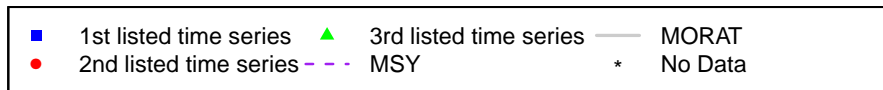
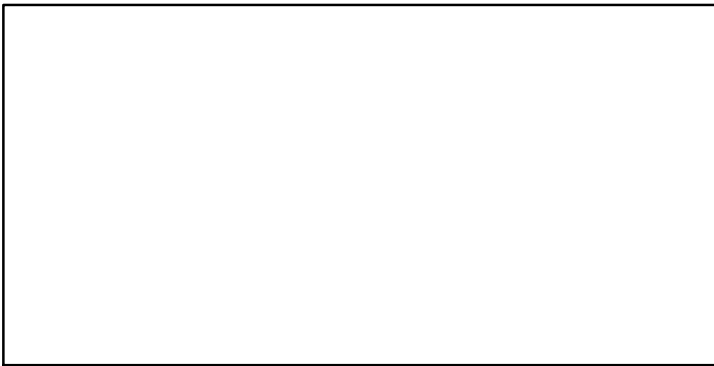
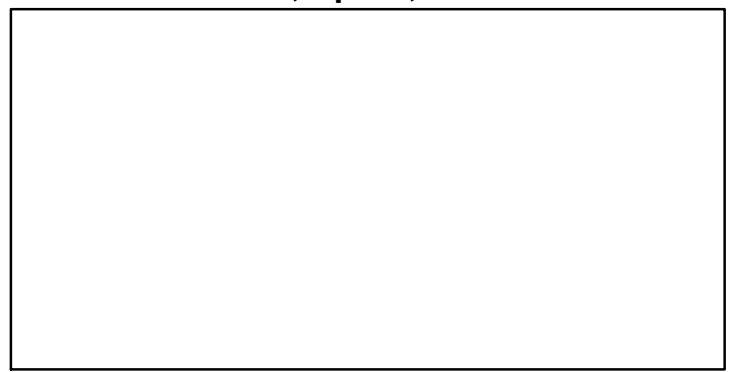
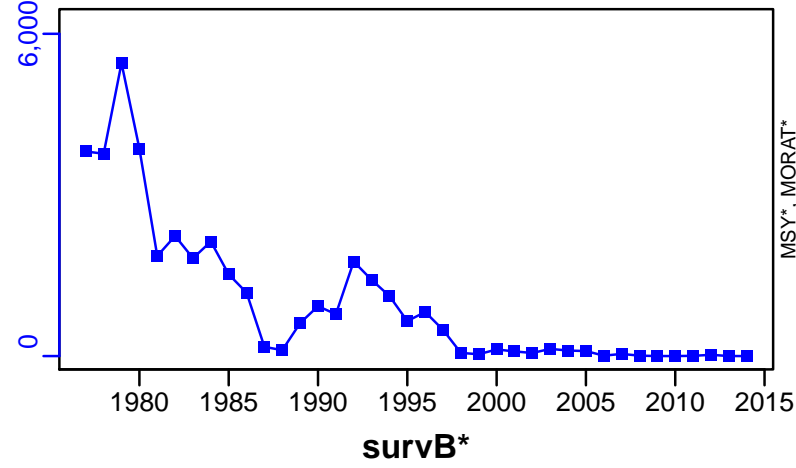
Recruits*



Basking shark Northeast Atlantic [BSKSHARNEATL]

TL-MT, TC*, RecC* (1977-2014-ICESIMP2018)

TAC*, Cpair*, Cadv*



Blue Whiting Northeast Atlantic [BWHITNEA]

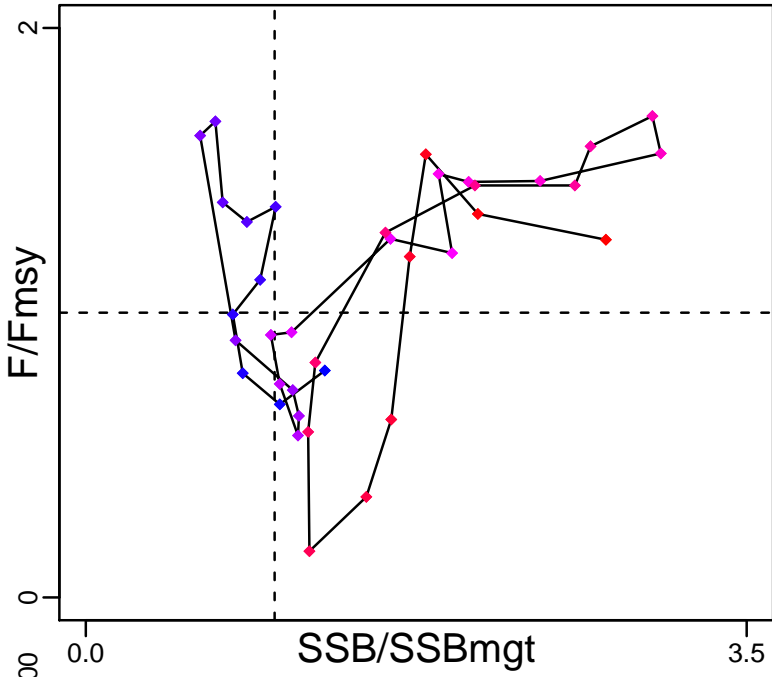
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	WGWISE-BWHITNEA-1980-2018-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2012, 2013, 2014, 2015, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.32
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	2,250,000
Fmgt	Fmgt-1/yr	2018	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1,500,000
Flim	Flim-1/yr	2018	0.88
ERlim	-	-	-

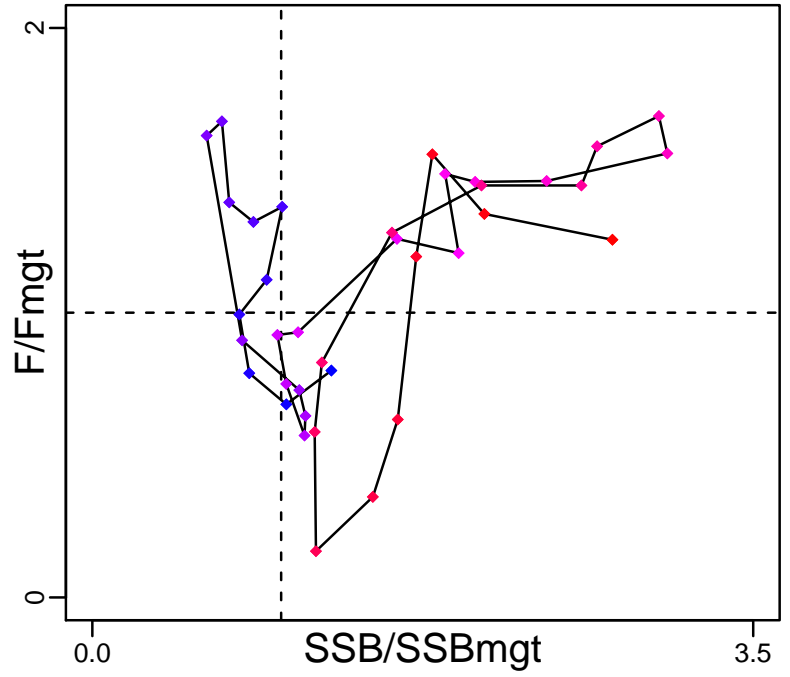
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	8,540,000	Both	-
SSB	SSB-MT	2018	5,910,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	8.86×10^9	-	1
F	F-1/yr	2018	0.402	-	3 to 7
ER	ER-calc-ratio	2018	0.183	-	-
TC	TC-MT	2018	1,560,000		
TL	TL-MT	2018	1,560,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.256		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.625		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.256		
ER/ERmgt	-	-	-		

Blue Whiting Northeast Atlantic [BWHITNEA]

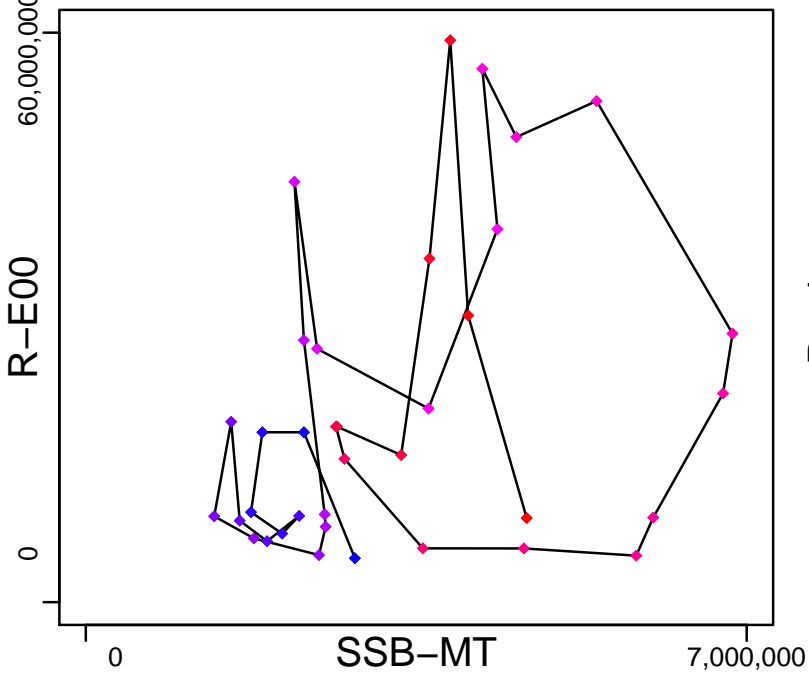
Kobe MSYpref (1980–2018–ICESIMP2018)



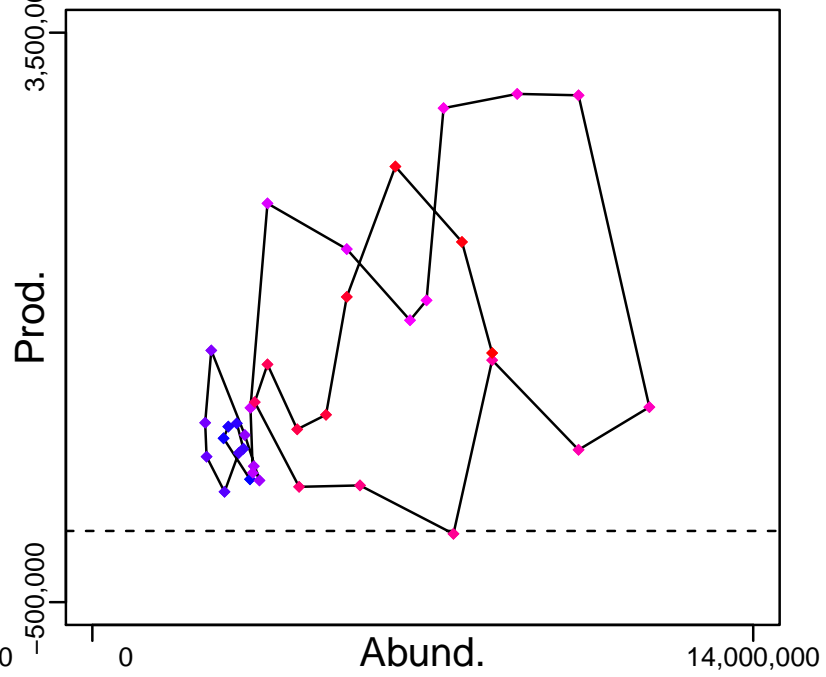
Kobe MGTpref (1980–2018–ICESIMP2018)



Spawner Recruit (1980–2018–ICESIMP2018)

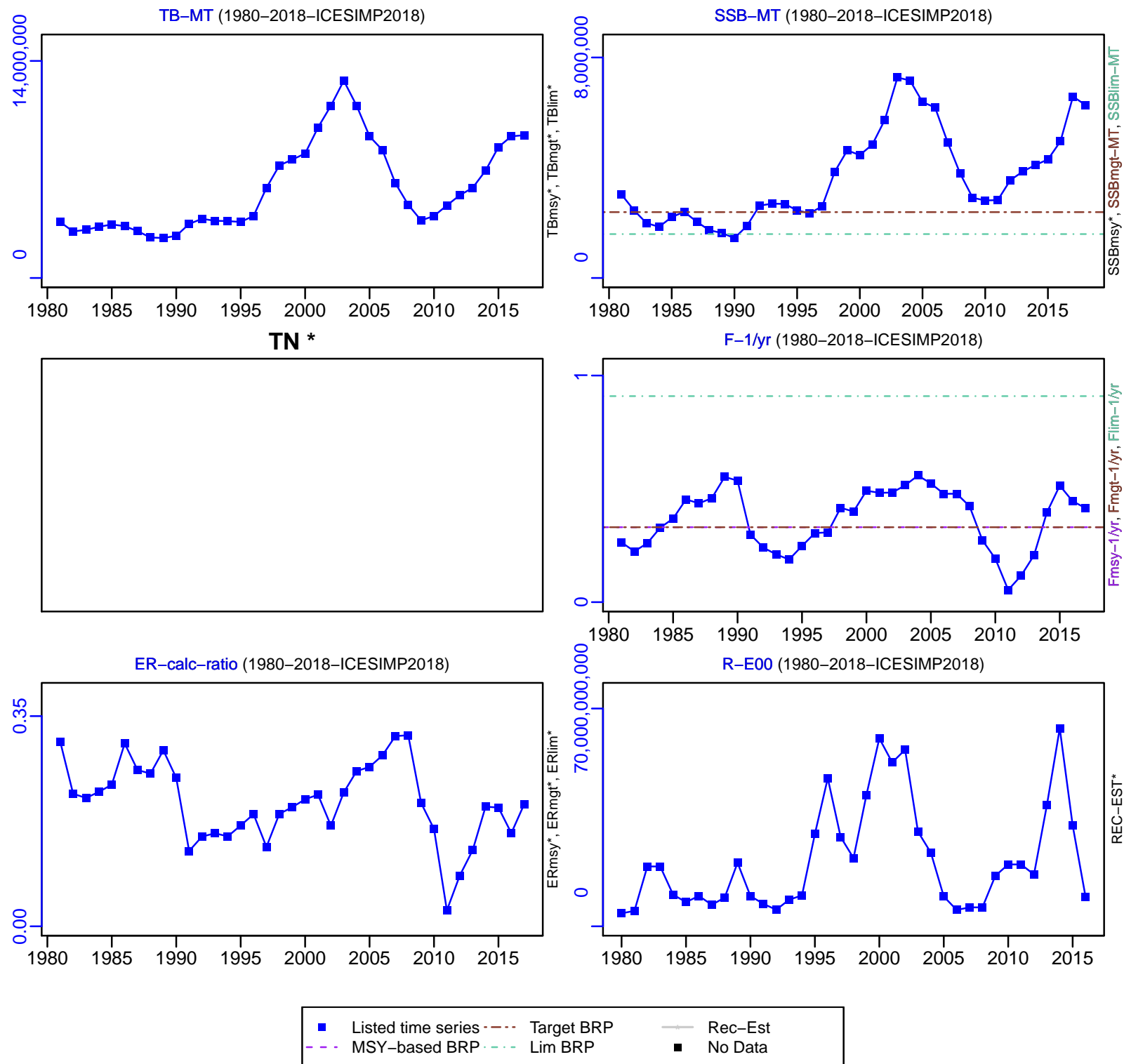


Production (1980–2018–ICESIMP2018)



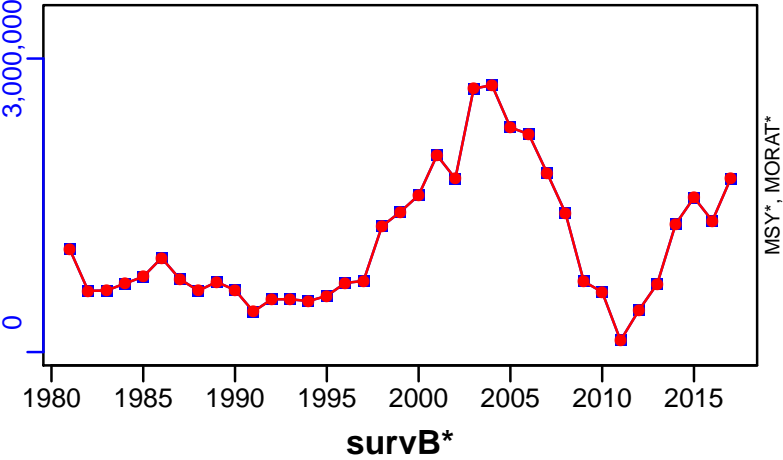
◆ Start Year ◆ End Year * No Data

Blue Whiting Northeast Atlantic [BWHITNEA]



Blue Whiting Northeast Atlantic [BWHITNEA]

TC-MT, TL-MT, RecC* (1980-2018-ICESIMP2018)



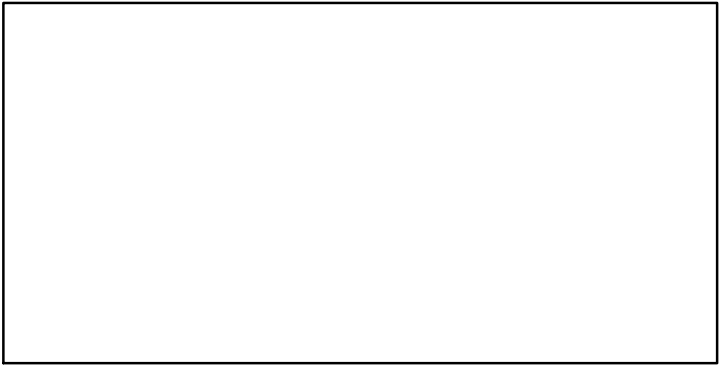
TAC*, Cpair*, Cadv*



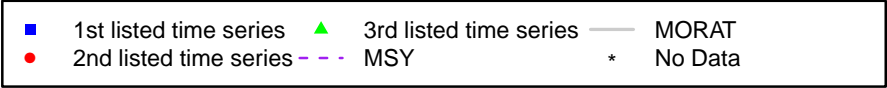
CPUE*



EFFORT*



CdivMSY*

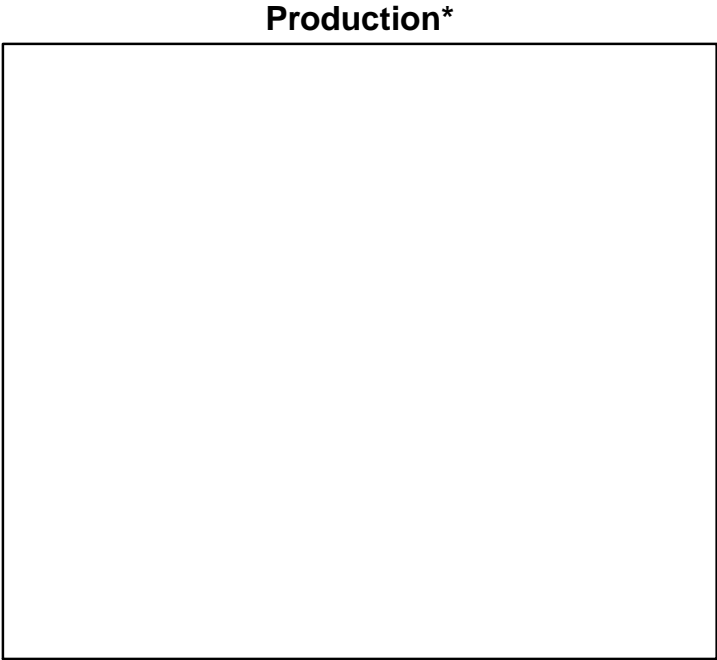
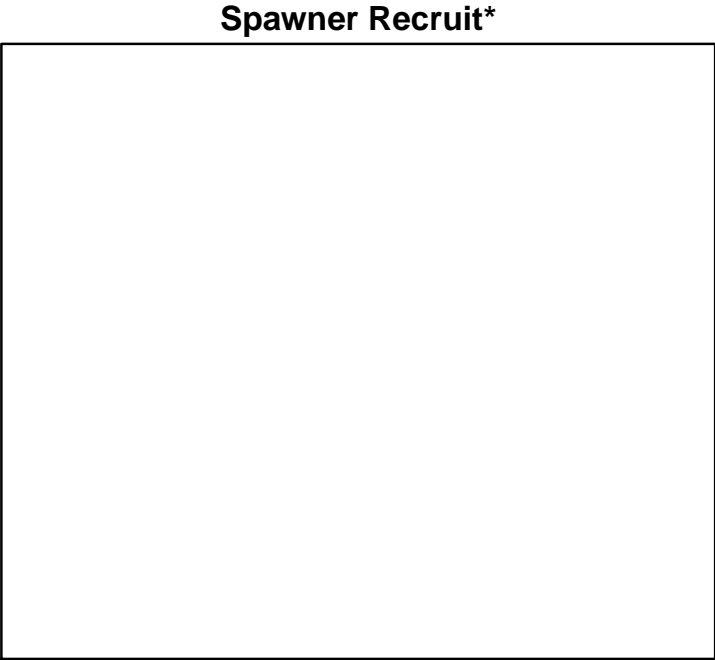
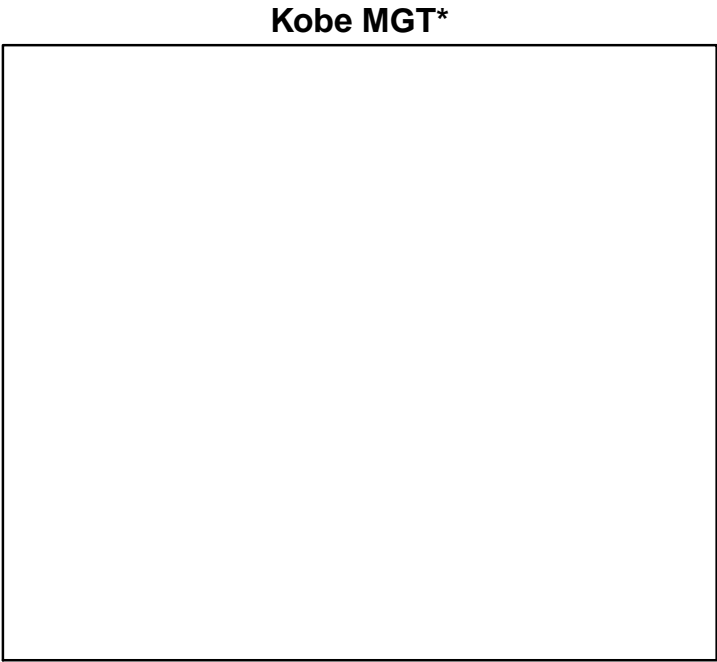
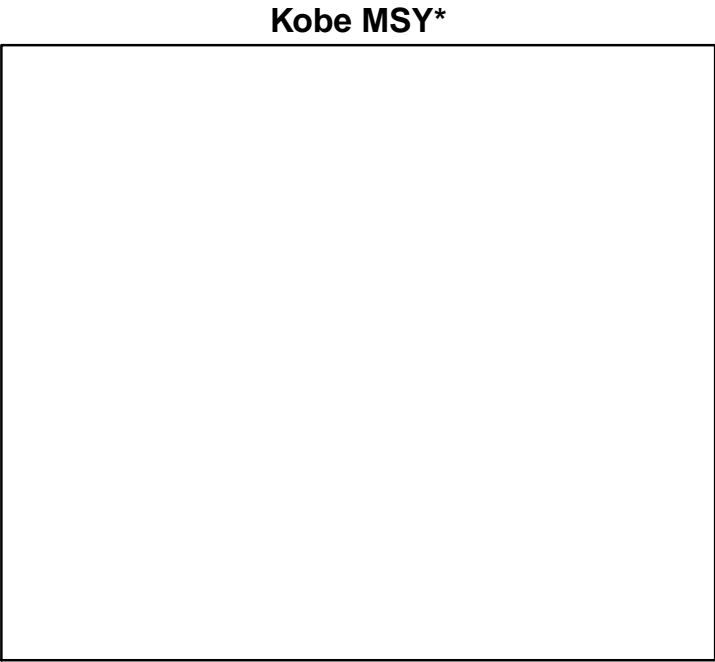


Cuckoo ray IIIa and North Sea [CKRAYIIIa-IV]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYIIIa-IV-2009-2016-ICESIMP2018
Area	IIIa and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2014	1.03	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



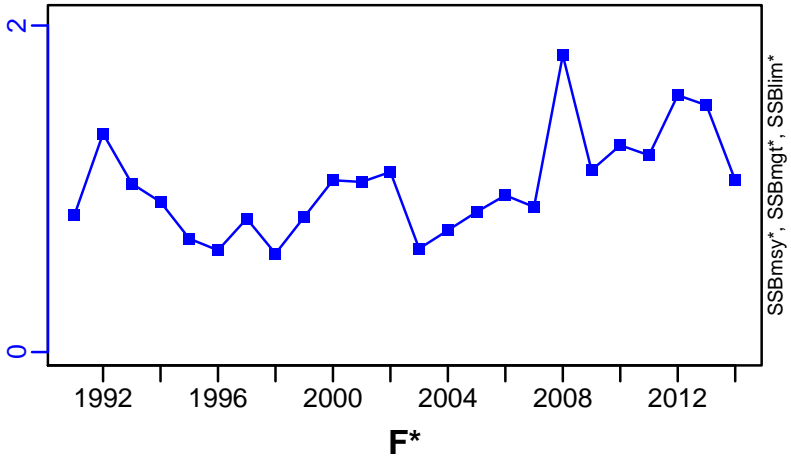
◆ Start Year ◆ End Year * No Data

Cuckoo ray IIIa and North Sea [CKRAYIIIa-IV]

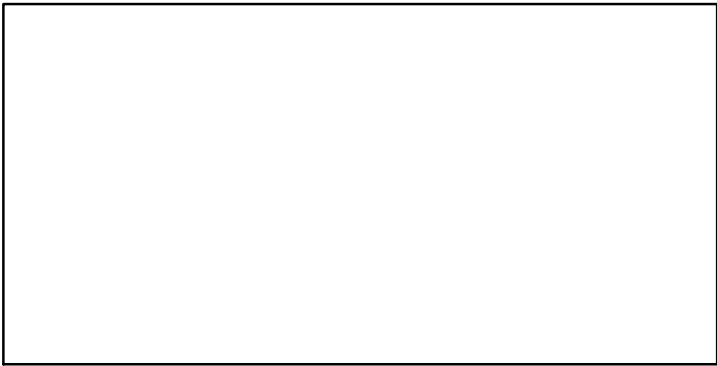
TB*



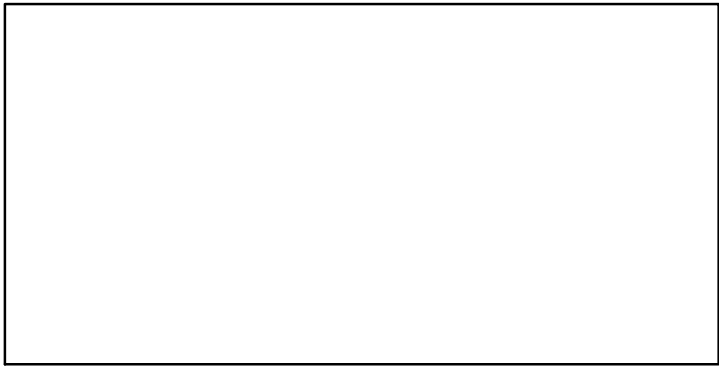
SSB-MT (1991–2014–ICESIMP2018)



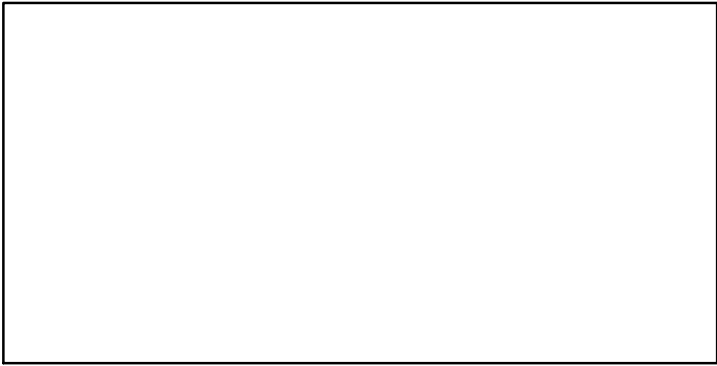
TN *



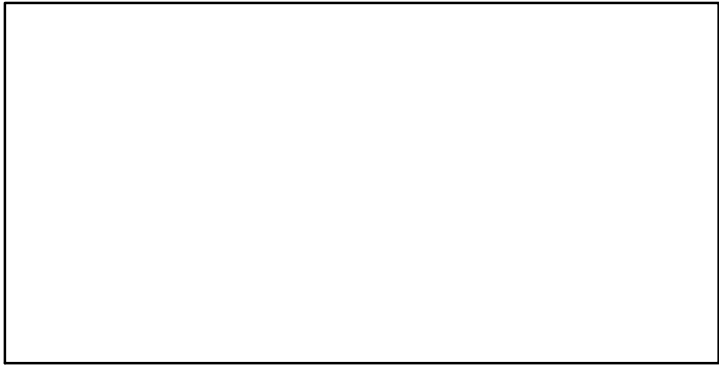
F*



ER*

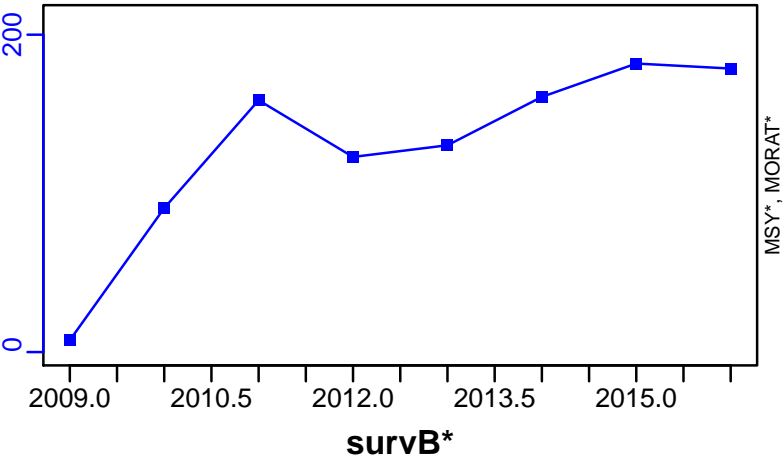


Recruits*



Cuckoo ray IIIa and North Sea [CKRAYIIIa-IV]

TL-MT, TC*, RecC* (2009–2016–ICESIMP2018)



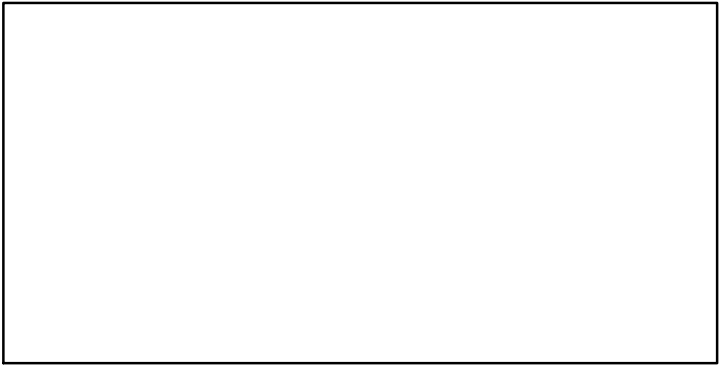
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



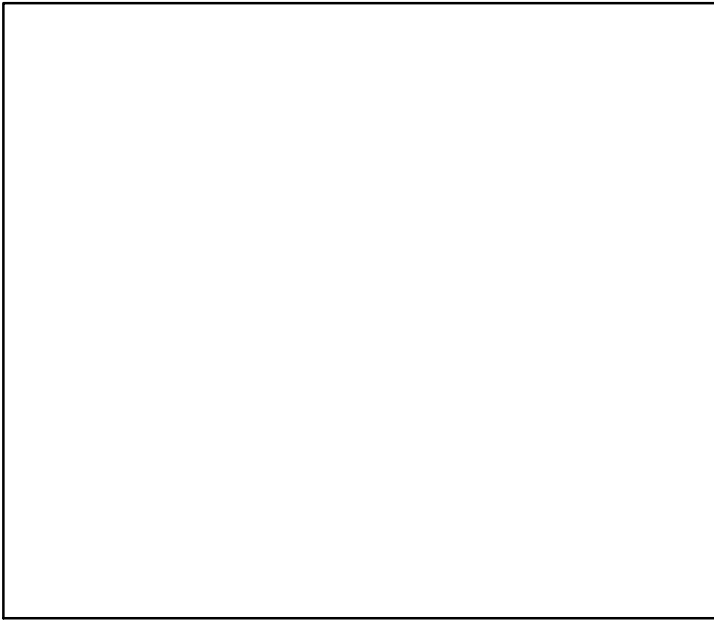
Cuckoo ray Portuguese Waters -East [CKRAYIXa]

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

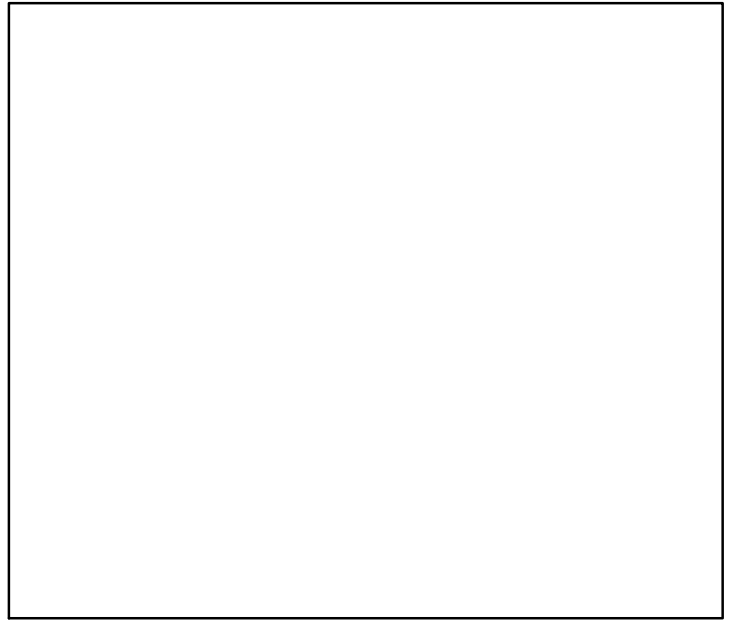
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	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	-	-	-		

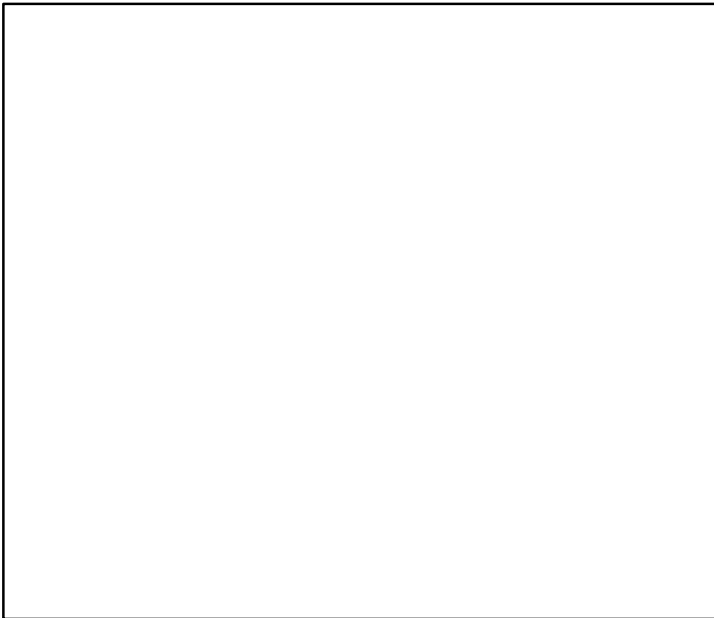
Kobe MSY*



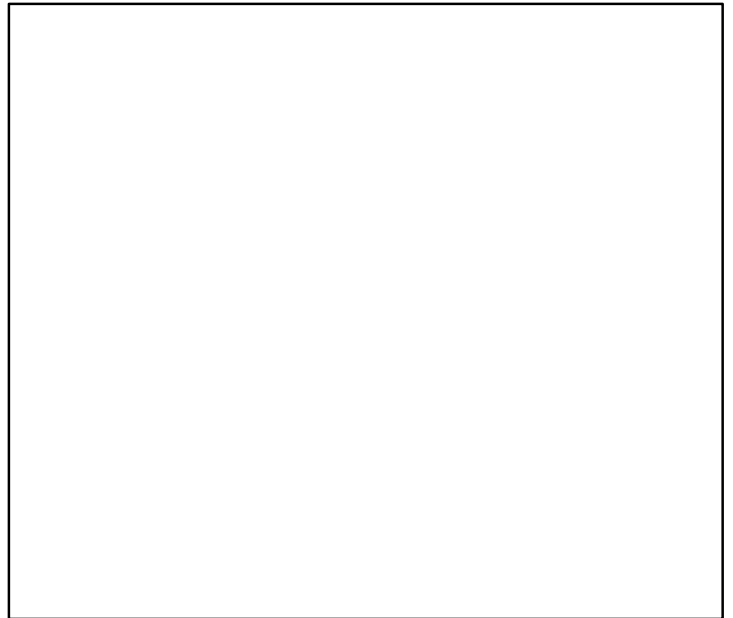
Kobe MGT*



Spawner Recruit*



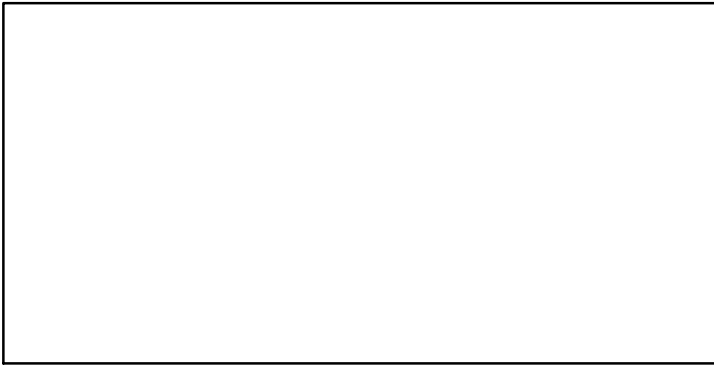
Production*



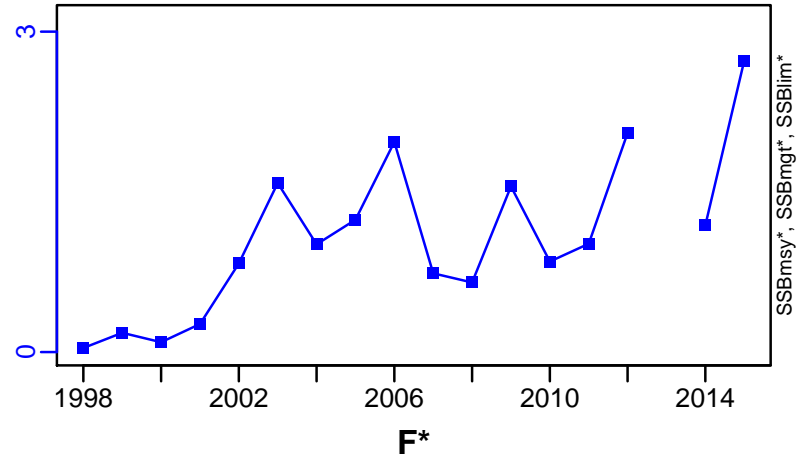
◆ Start Year ◆ End Year * No Data

Cuckoo ray Portuguese Waters –East [CKRAYIXa]

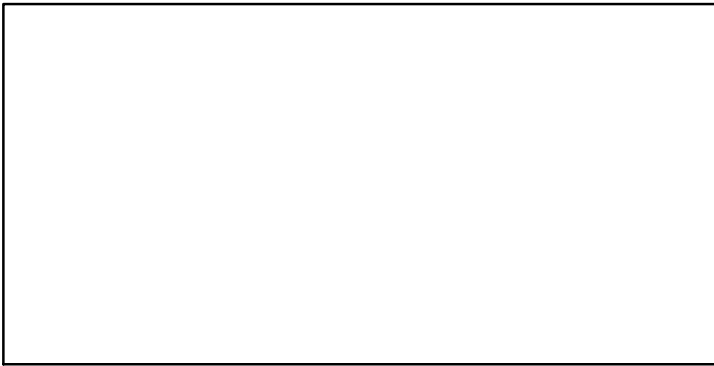
TB*



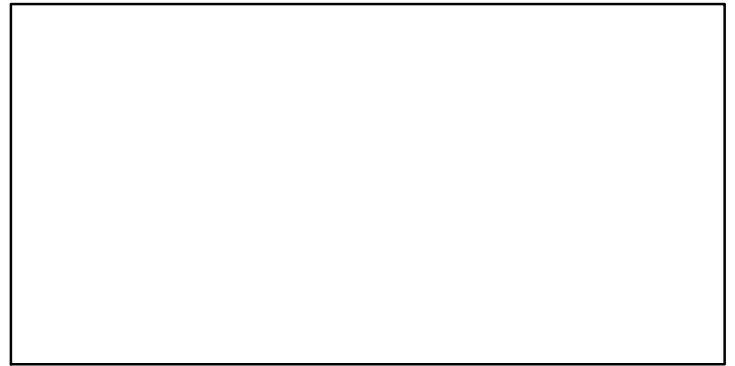
SSB-MT (1998–2015–ICESIMP2018)



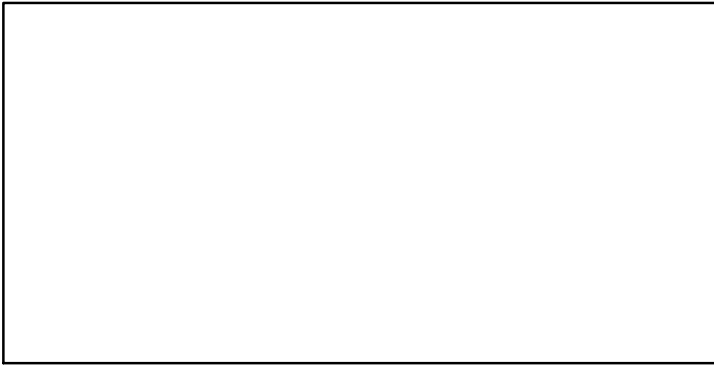
TN *



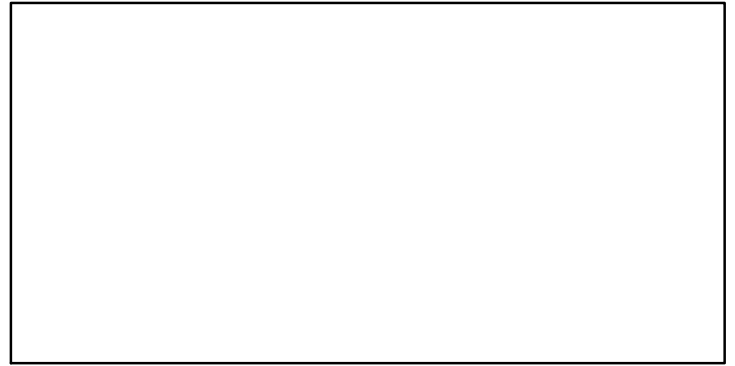
F*



ER*



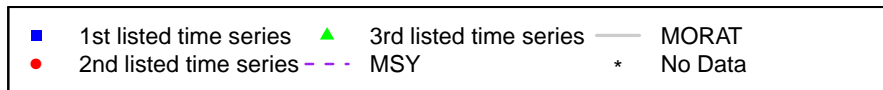
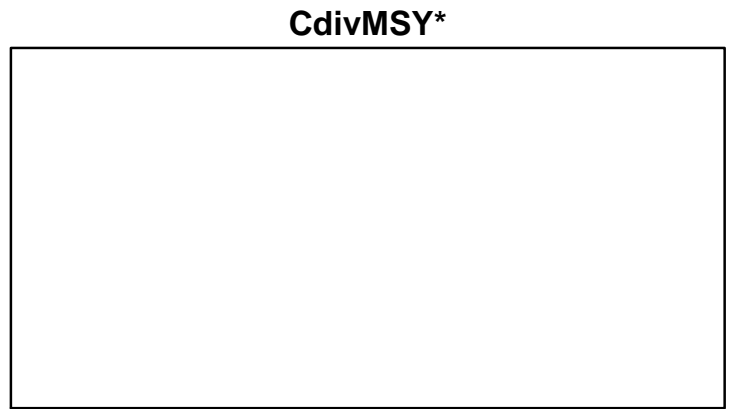
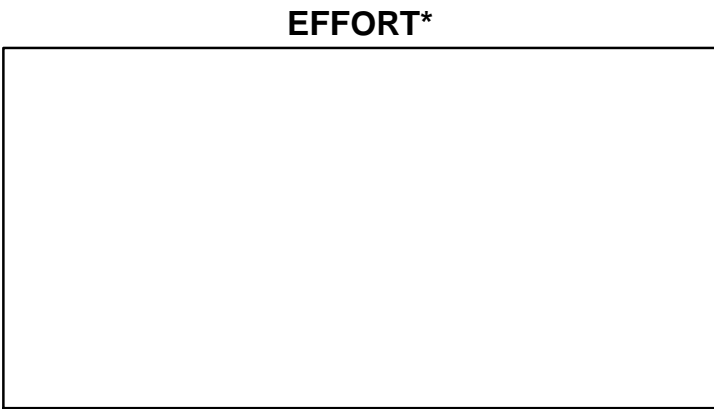
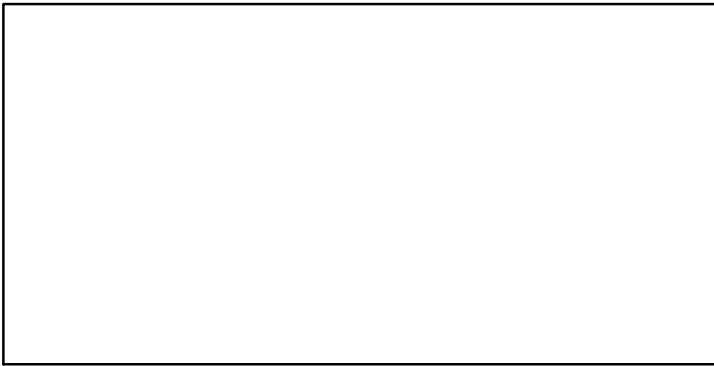
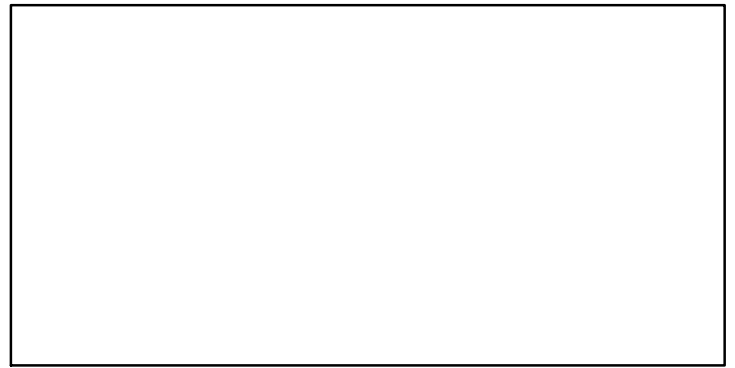
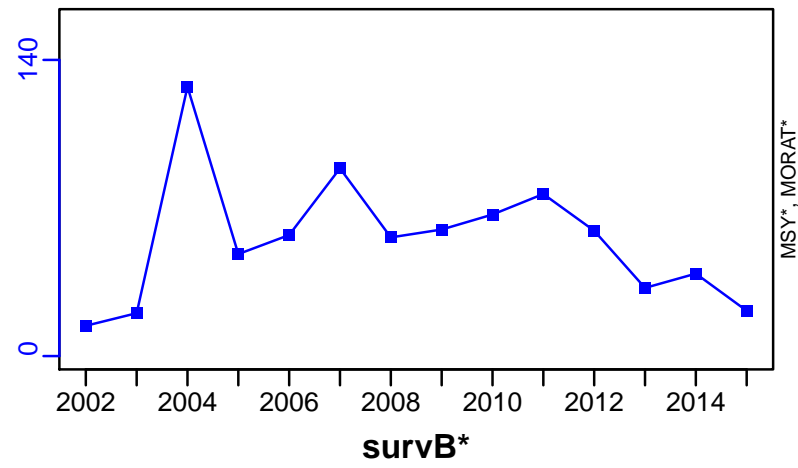
Recruits*



Cuckoo ray Portuguese Waters –East [CKRAYIXa]

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

TAC*, Cpair*, Cadv*



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-MT	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	-	-	-		

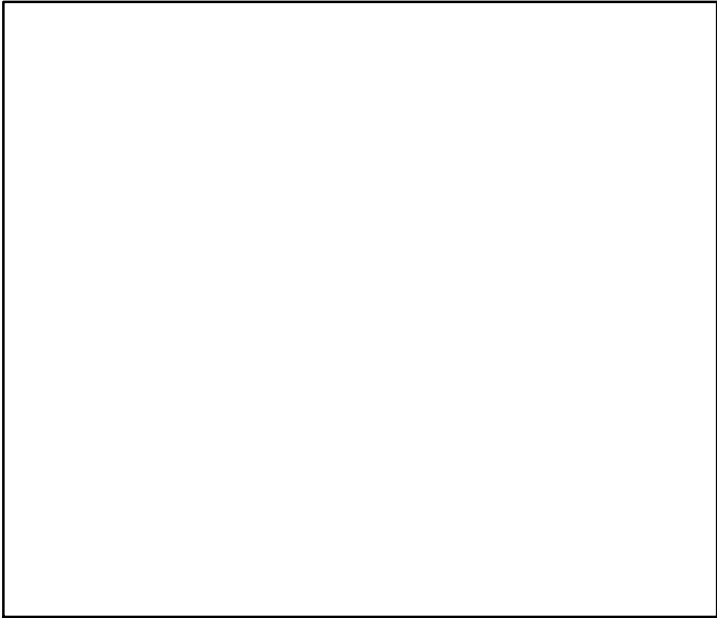
Kobe MSY*



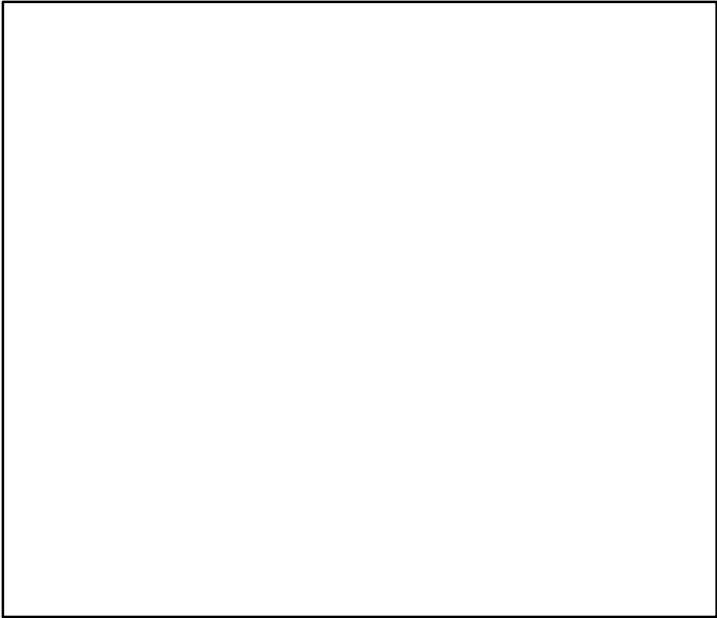
Kobe MGT*



Spawner Recruit*



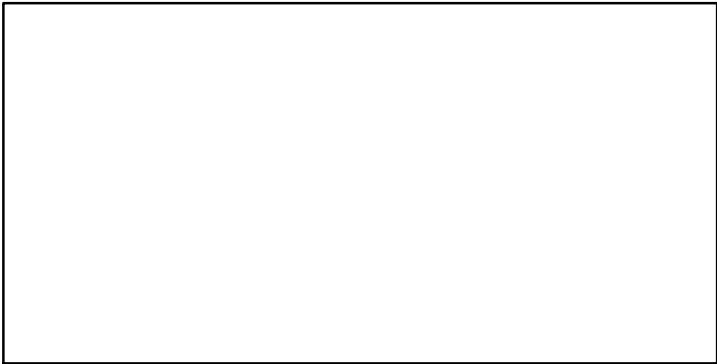
Production*



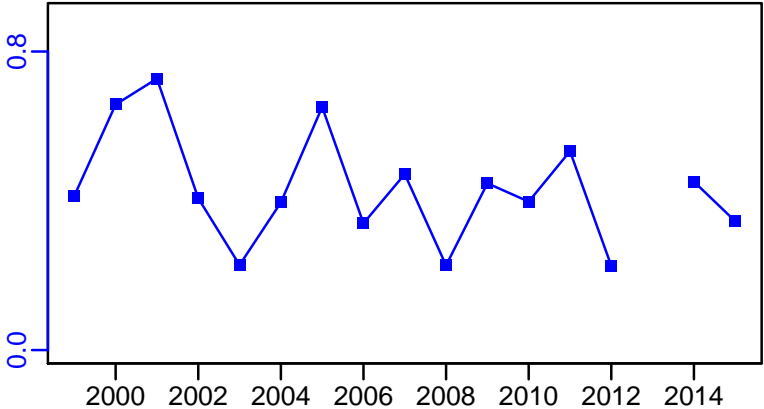
◆ Start Year ◆ End Year * No Data

Cuckoo ray Bay of Biscay –South [CKRAYVIIIc]

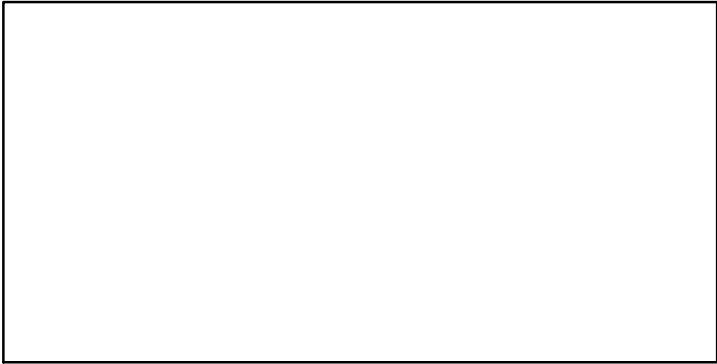
TB*



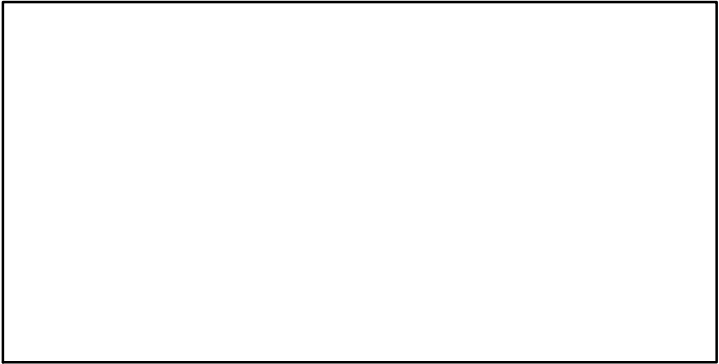
SSB-MT (1999–2015–ICESIMP2018)



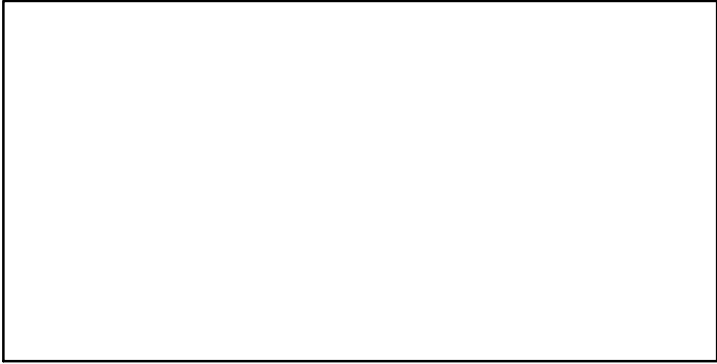
TN *



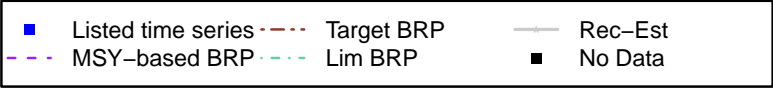
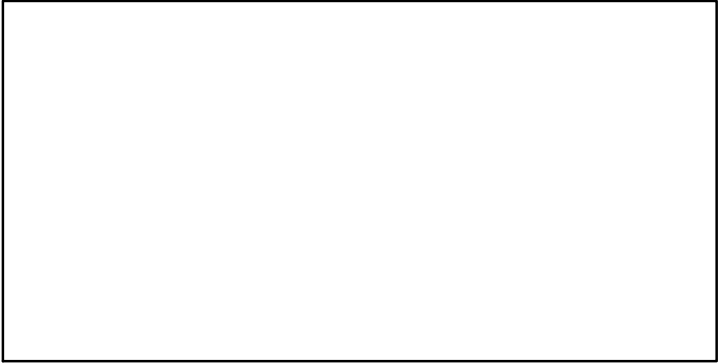
F*



ER*

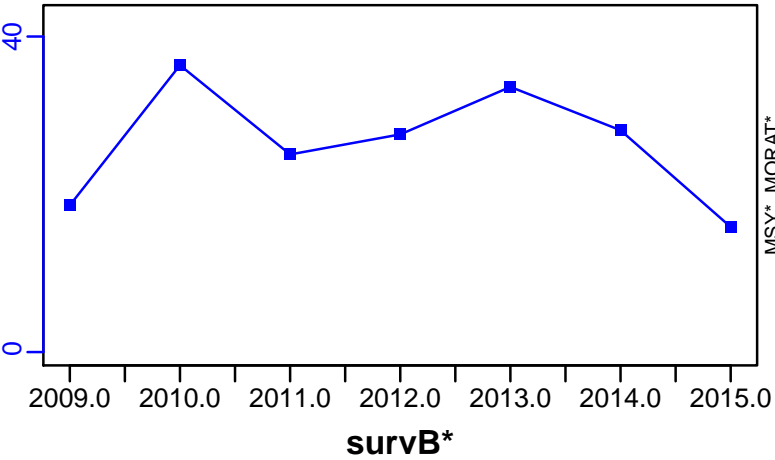


Recruits*



Cuckoo ray Bay of Biscay –South [CKRAYVIIIc]

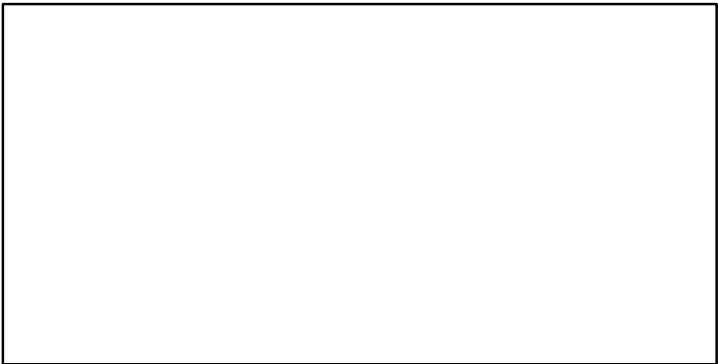
TL–MT, TC*, RecC* (1999–2015–ICESIMP2018)



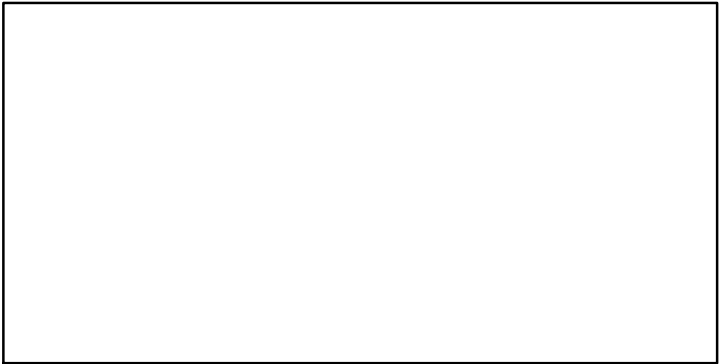
TAC*, Cpair*, Cadv*



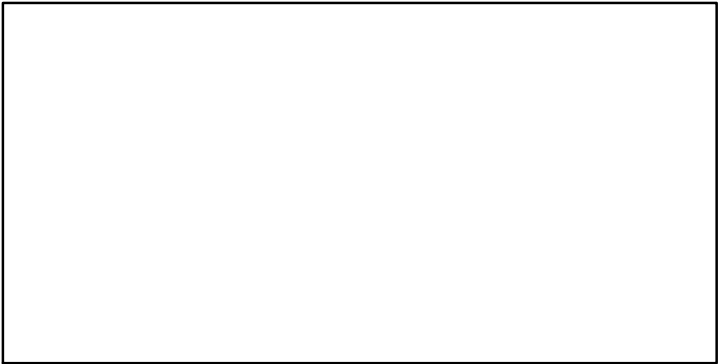
CPUE*



EFFORT*



CdivMSY*

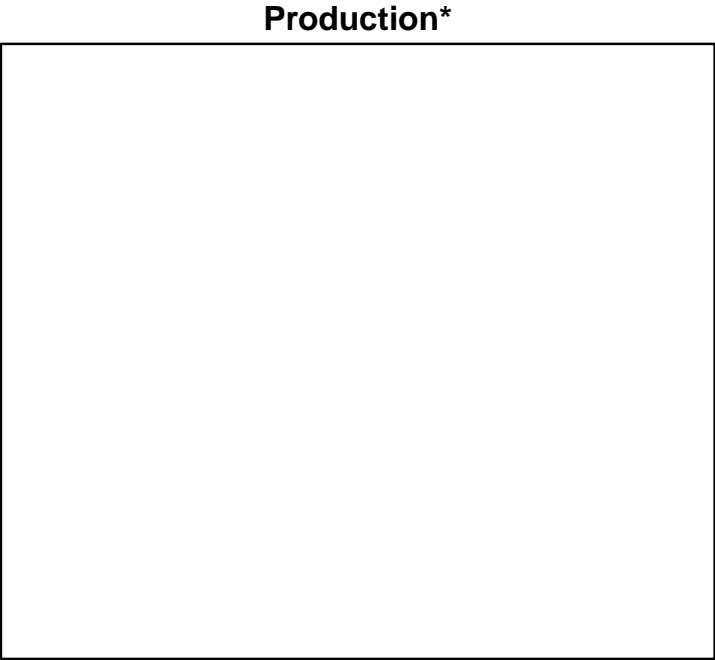
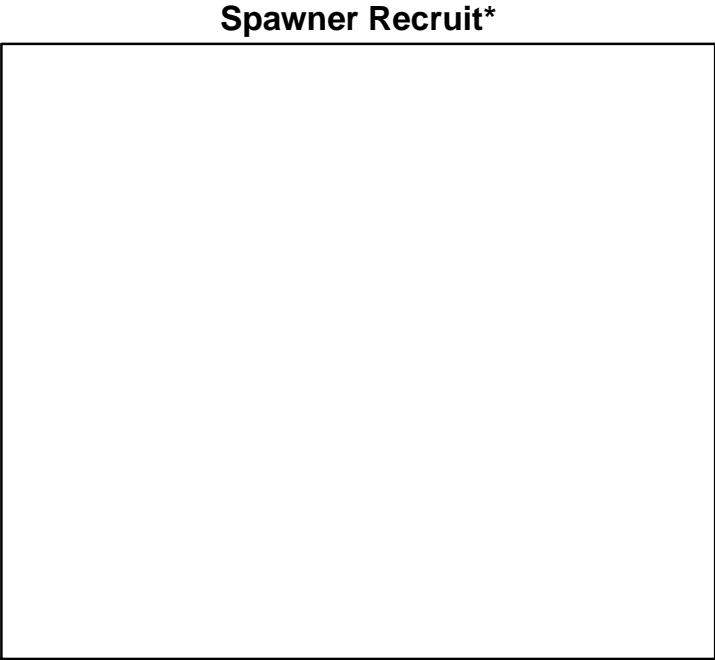
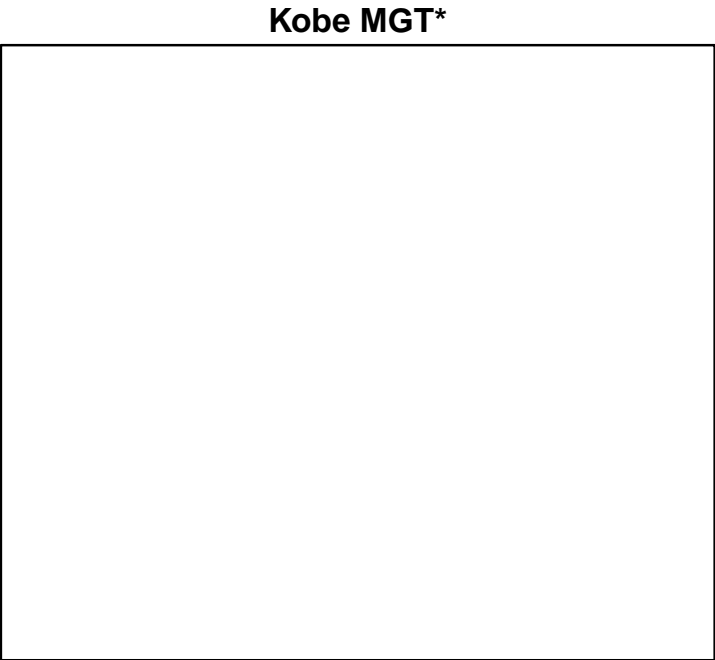
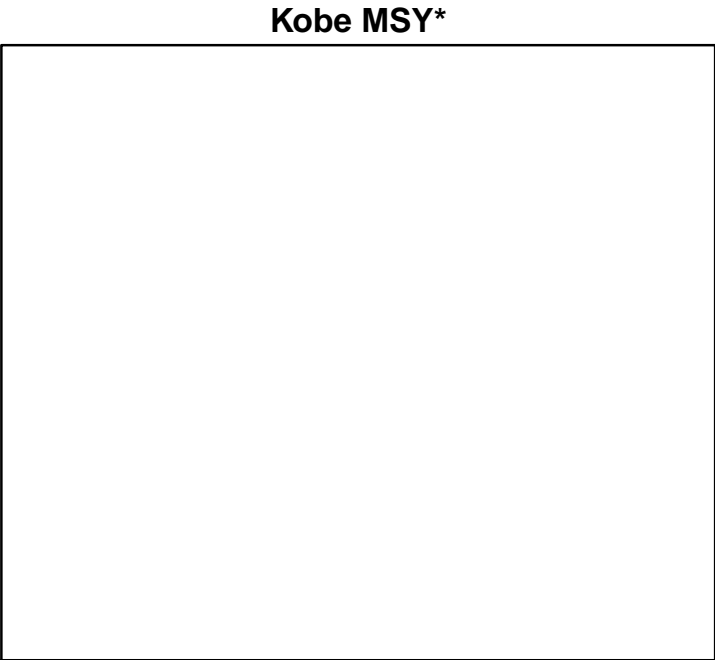


Cuckoo ray ICES VI-VII [CKRAYVI-VII]

Metadata	
Scientific Name	Leucoraja naevus
Current Assess ID	WGEF-CKRAYVI-VII-2005-2015-ICESIMP2018
Area	ICES VI-VII
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	-	-	-

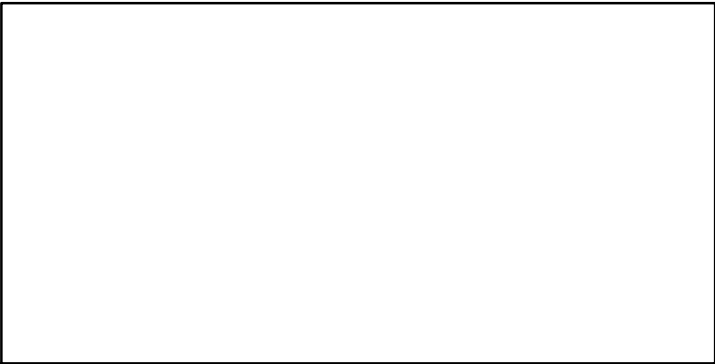
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	1.51	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	3360		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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



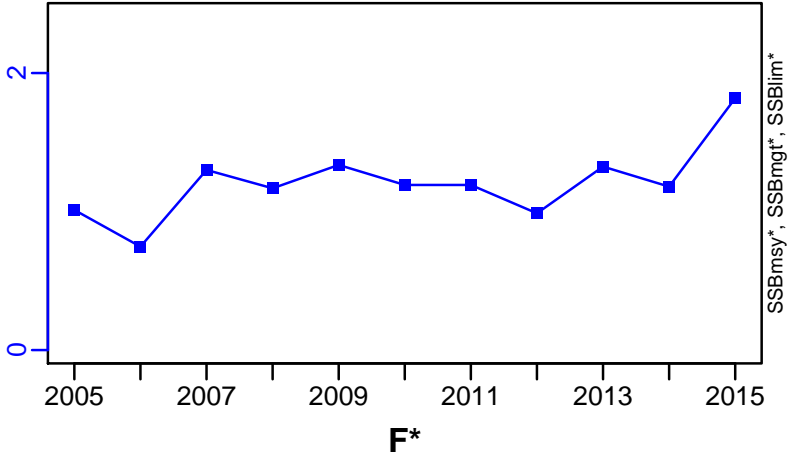
◆ Start Year ◆ End Year * No Data

Cuckoo ray ICES VI-VII [CKRAYVI-VII]

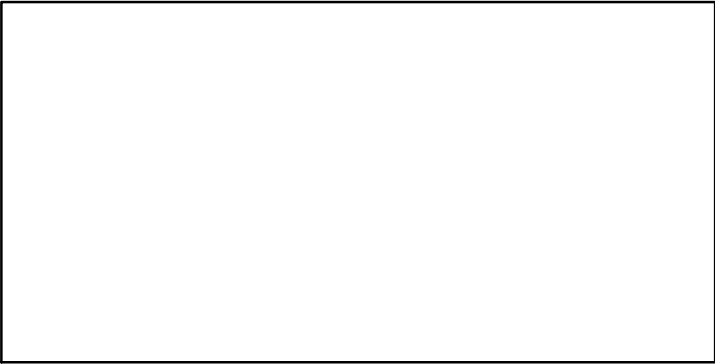
TB*



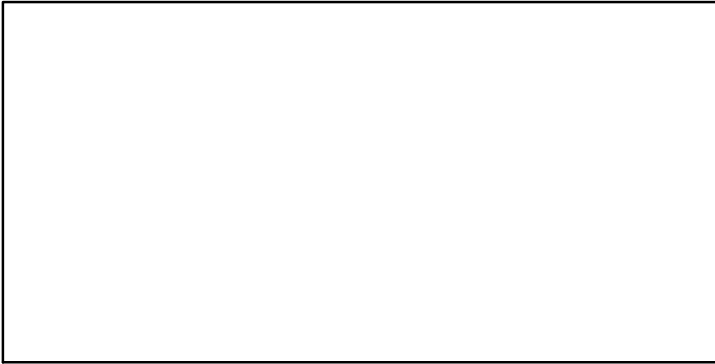
SSB-MT (2005-2015-ICESIMP2018)



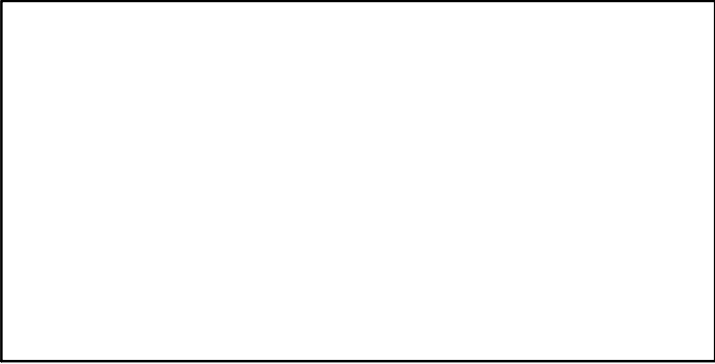
TN *



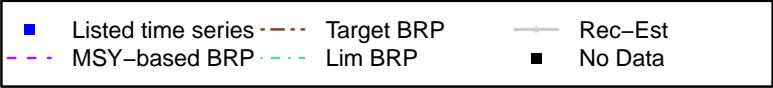
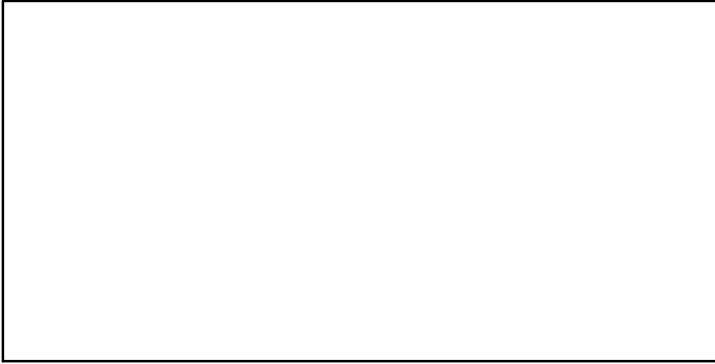
F*



ER*

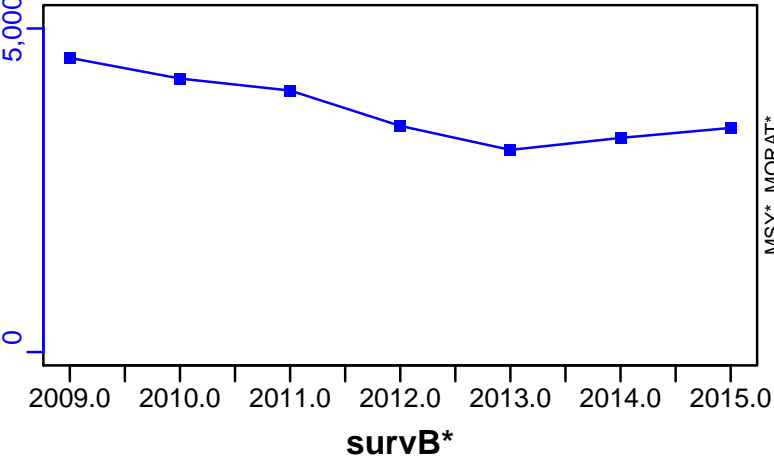


Recruits*



Cuckoo ray ICES VI-VII [CKRAYVI-VII]

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



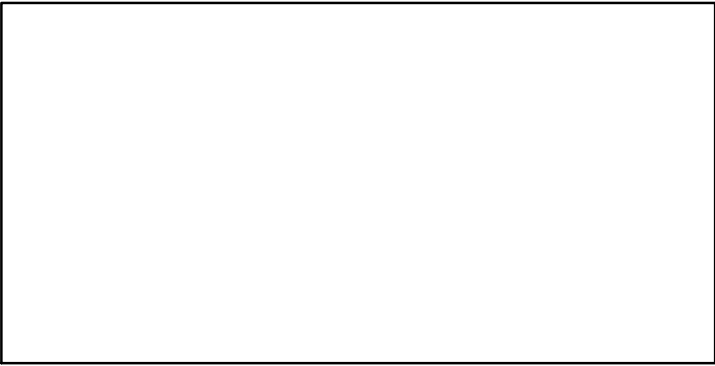
TAC*, Cpair*, Cadv*



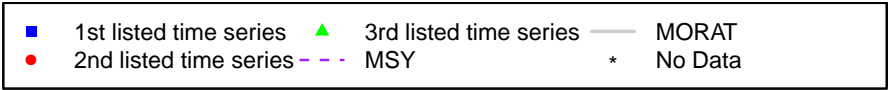
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

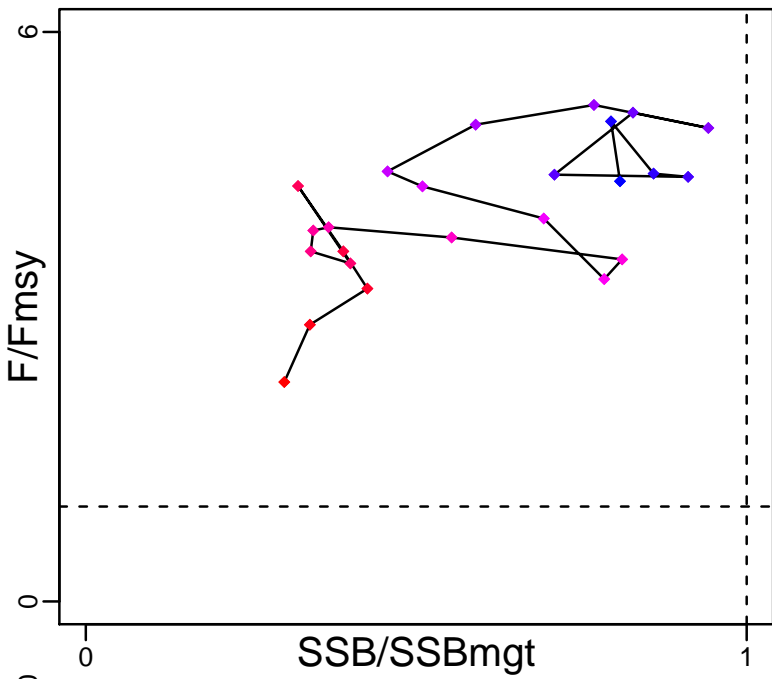
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2224-1993-2018-ICESIMP2018
Area	Western Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	38,400
Fmgt	Fmgt-1/yr	2018	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	23,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	27,400
Flim	Flim-1/yr	2018	1.01
ERlim	-	-	-

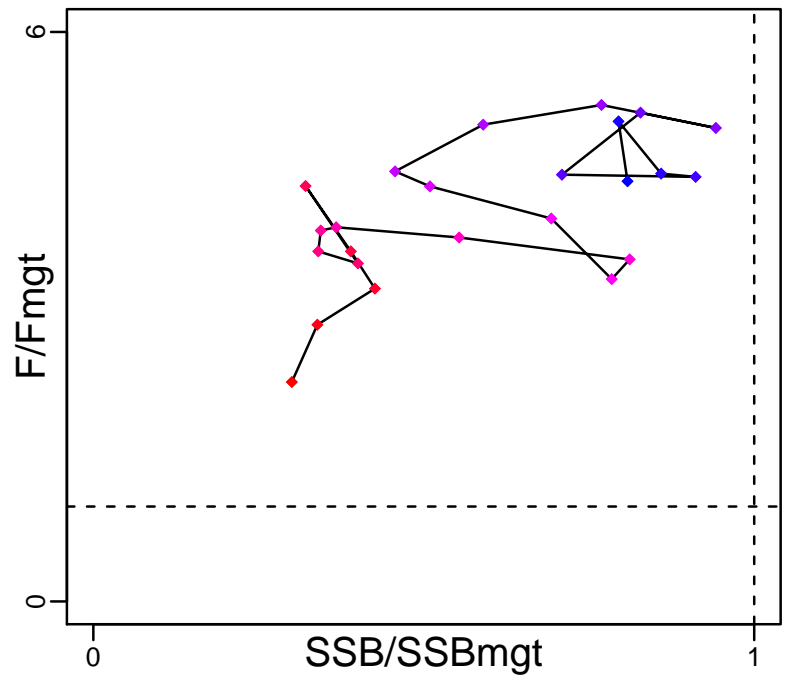
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	34,500	Both	-
SSB	SSB-MT	2018	25,300	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1,630,000	-	1
F	F-1/yr	2018	0.601	-	3 to 5
ER	ER-calc-ratio	2018	0.324	-	-
TC	TC-MT	2018	5050		
TL	TL-MT	2018	3920		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	2.312		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.659		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	2.312		
ER/ERmgt	-	-	-		

Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

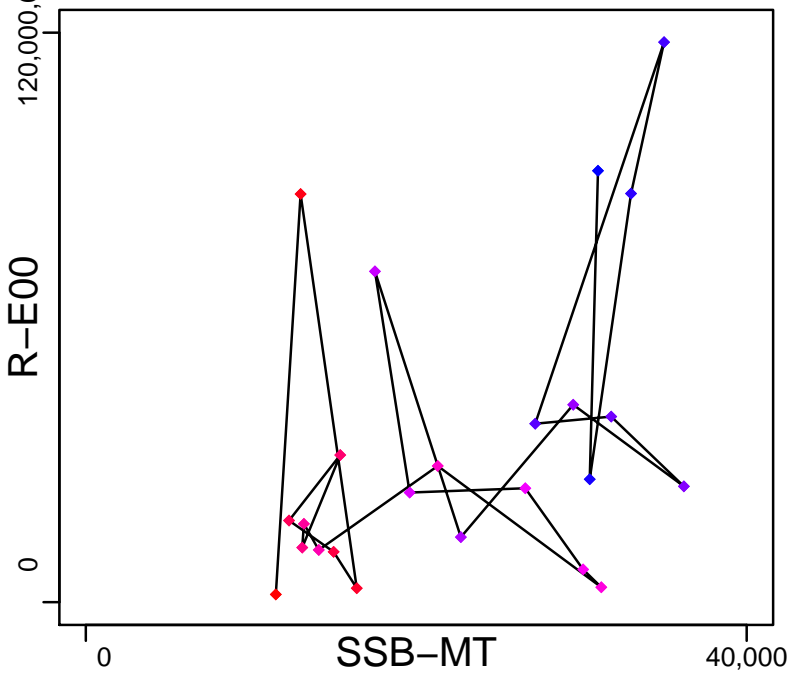
Kobe MSYpref (1993–2018–ICESIMP2018)



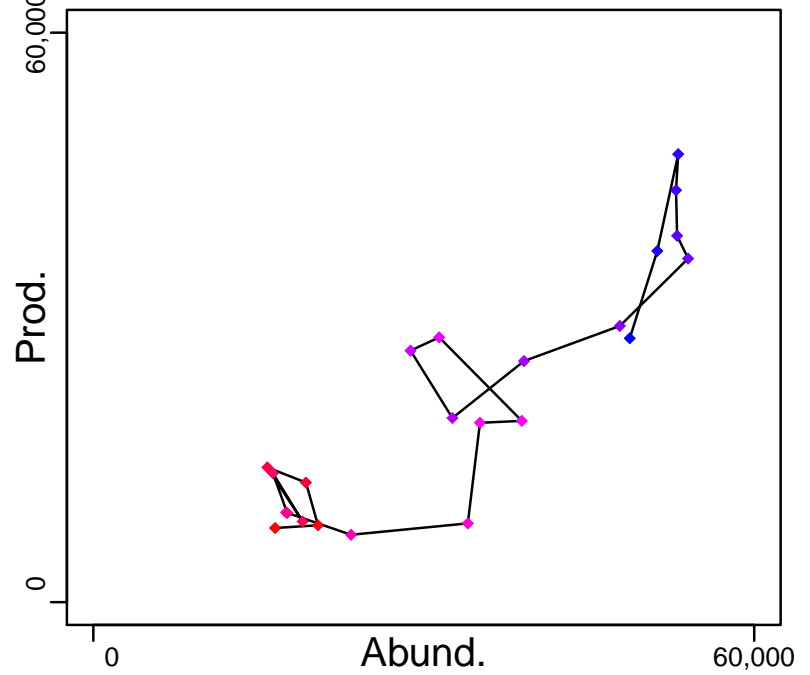
Kobe MGTpref (1993–2018–ICESIMP2018)



Spawner Recruit (1993–2018–ICESIMP2018)

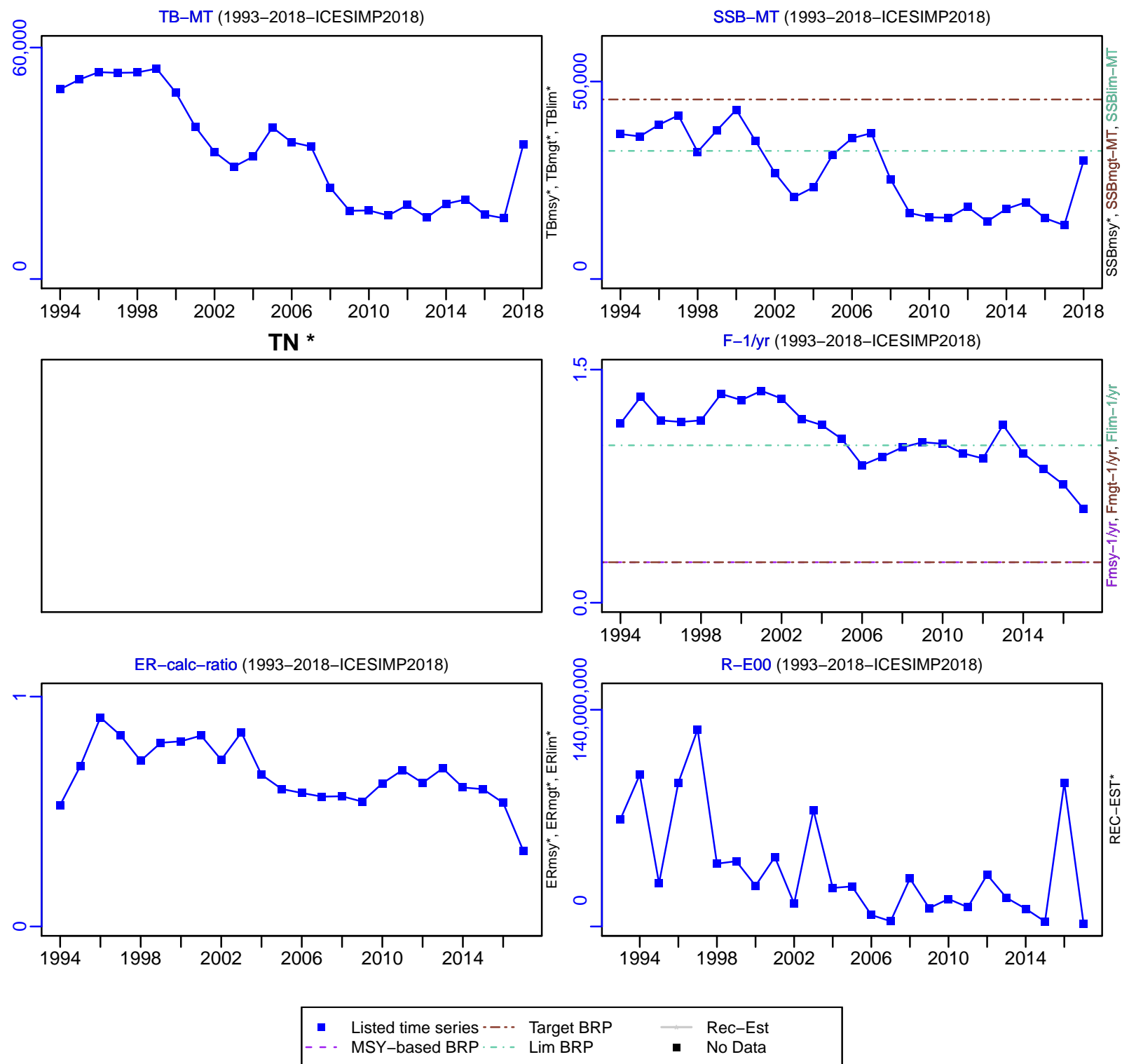


Production (1993–2018–ICESIMP2018)



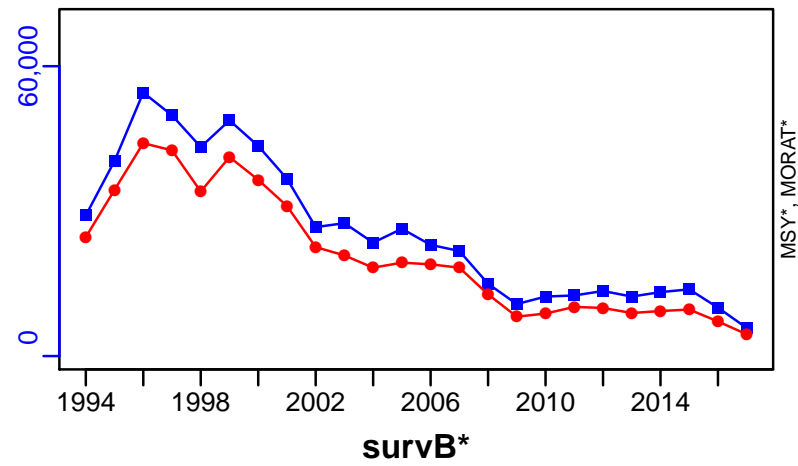
◆ Start Year ◆ End Year * No Data

Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

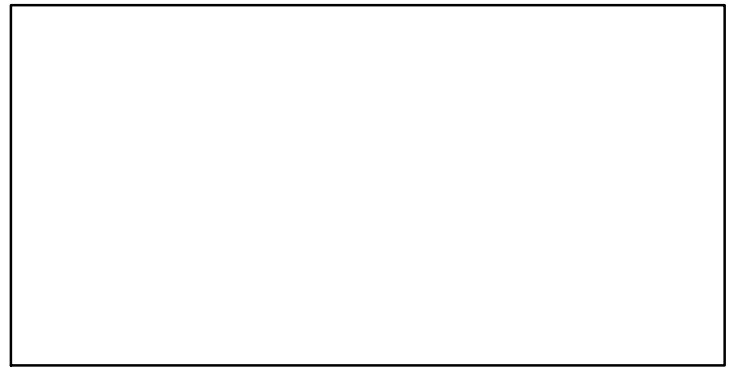


Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

TC-MT, TL-MT, RecC* (1993–2018–ICESIMP2018)



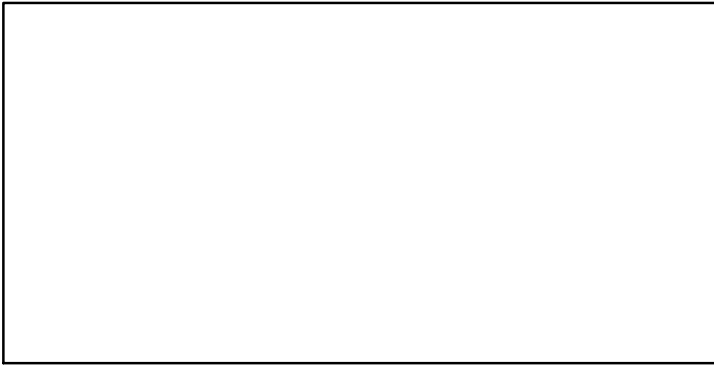
TAC*, Cpair*, Cadv*



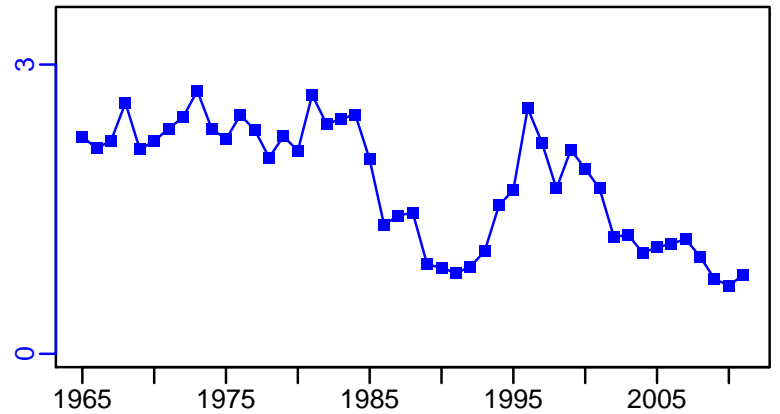
CPUE*



EFFORT*



CdivMSY-ratio (1965–2012–CHING)



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

Atlantic cod Baltic Areas 25-32 [CODBA2532]

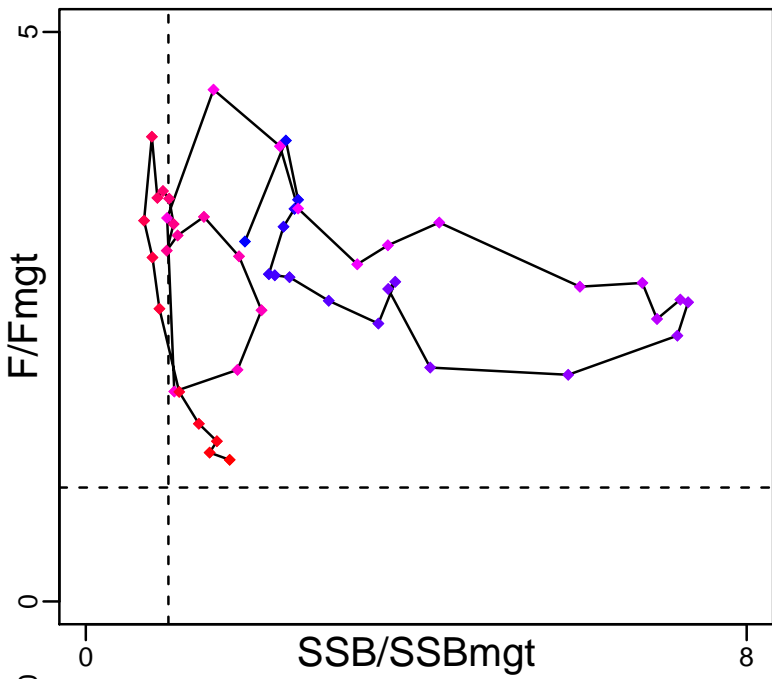
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2532-1965-2017-ICESIMP2018
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2016, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	88,200
Fmgt	Fmgt-1/yr	2013	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2013	63,000
Flim	-	-	-
ERlim	-	-	-

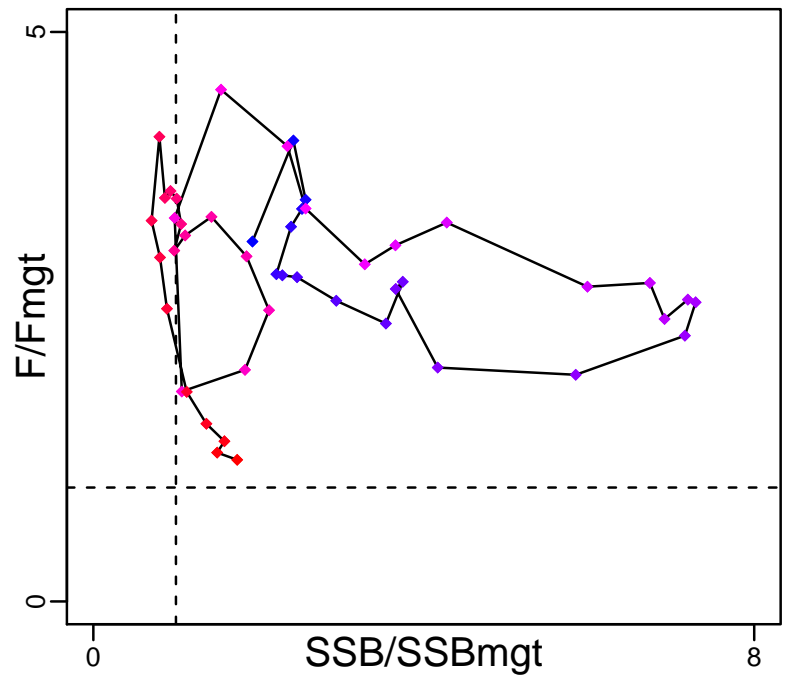
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	233,000	Both	-
SSB	SSB-MT	2013	180,000	Both	-
TN	-	-	-	-	-
R	R-E00	2013	2.54×10^8	-	2
F	F-1/yr	2013	0.373	-	4 to 6
ER	ER-ratio	2016	0.344	-	-
TC	TC-MT	2017	30,900		
TL	TL-MT	2017	25,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.857		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	2.039		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	1.243		
ER/ERmgt	-	-	-		

Atlantic cod Baltic Areas 25–32 [CODBA2532]

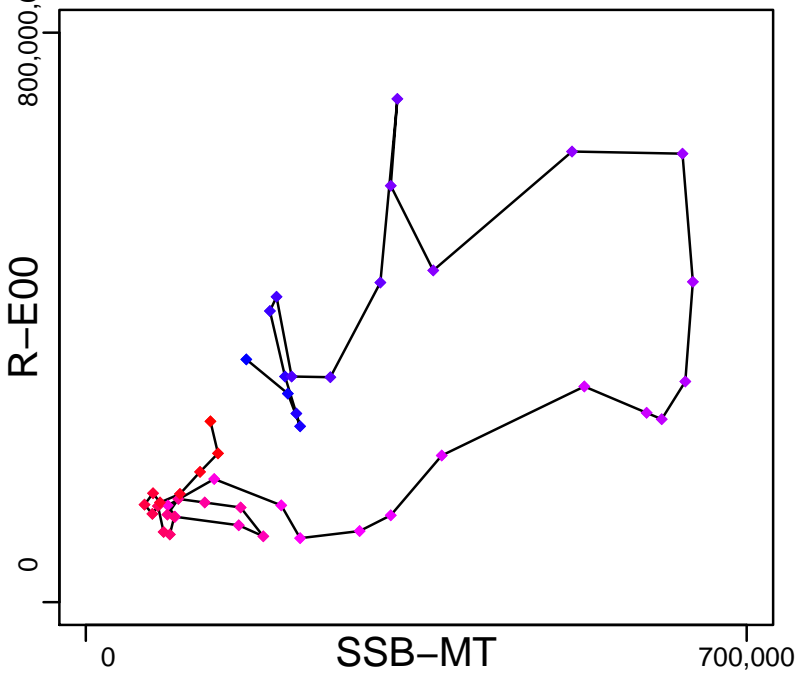
Kobe MSYpref (1964–2013–ICESIMP2016)



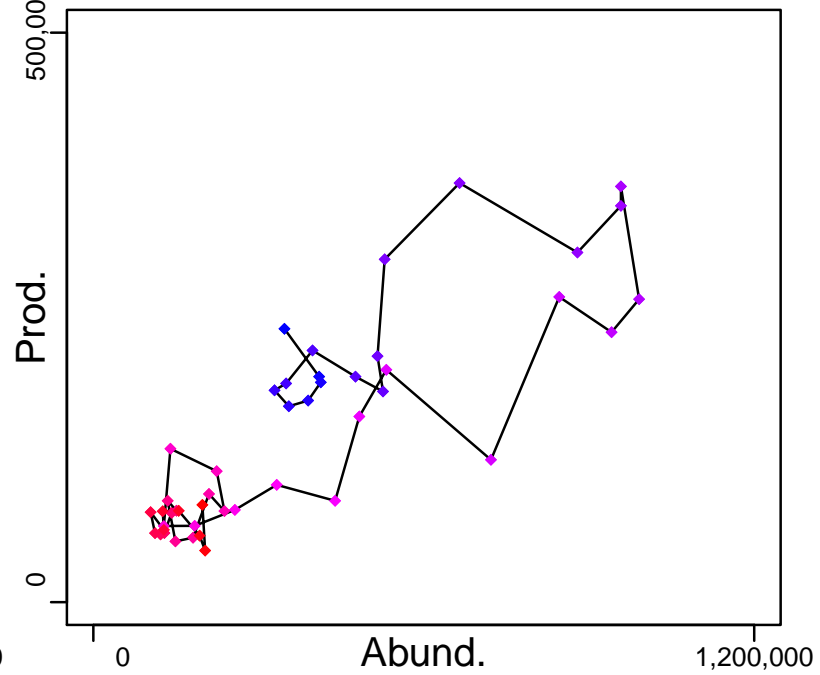
Kobe MGTpref (1964–2013–ICESIMP2016)



Spawner Recruit (1964–2013–ICESIMP2016)



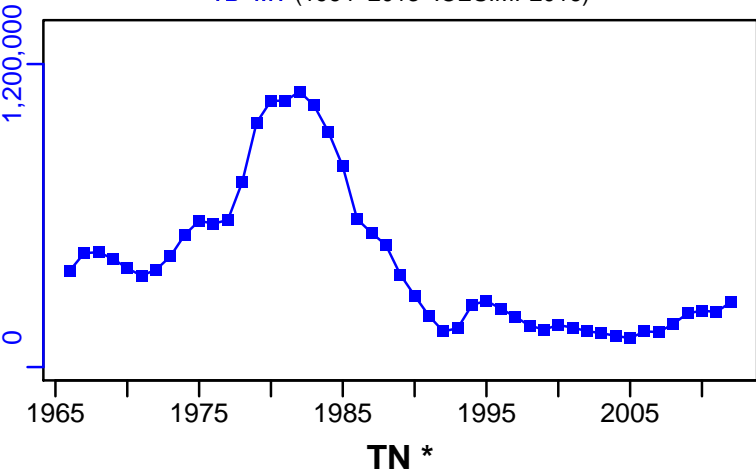
Production (1964–2013–ICESIMP2016)



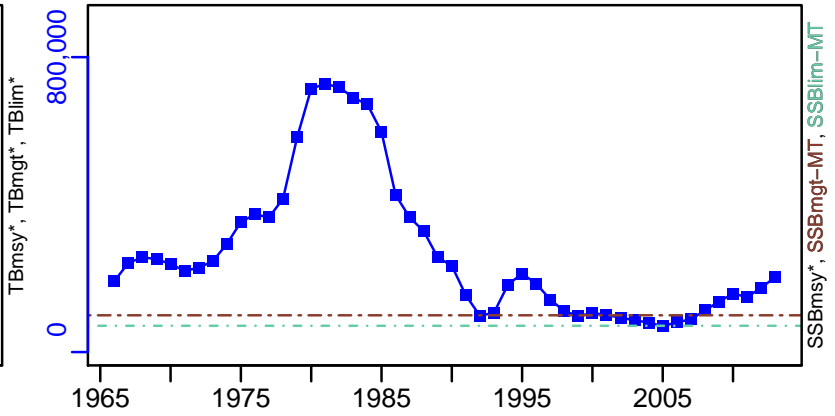
◆ Start Year ◆ End Year * No Data

Atlantic cod Baltic Areas 25-32 [CODBA2532]

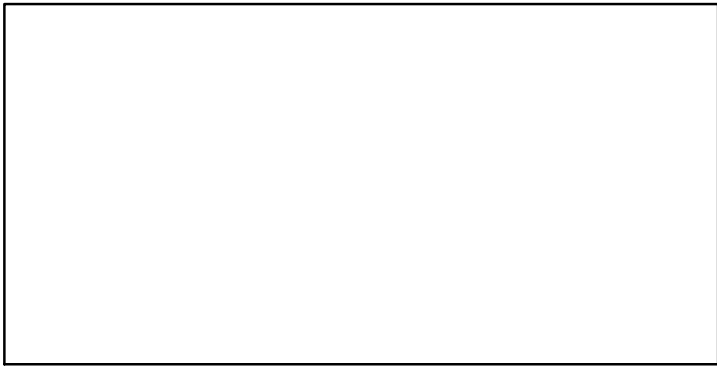
TB-MT (1964-2013-ICESIMP2016)



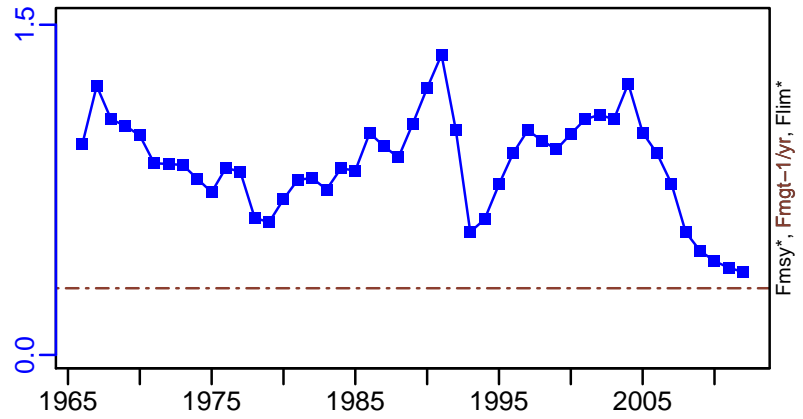
SSB-MT (1964-2013-ICESIMP2016)



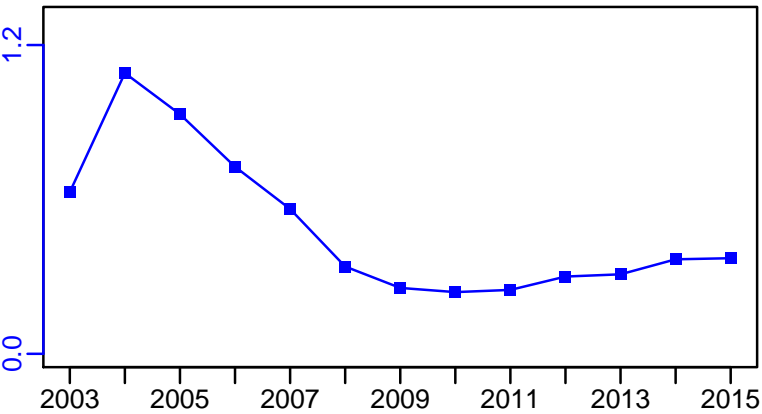
TN *



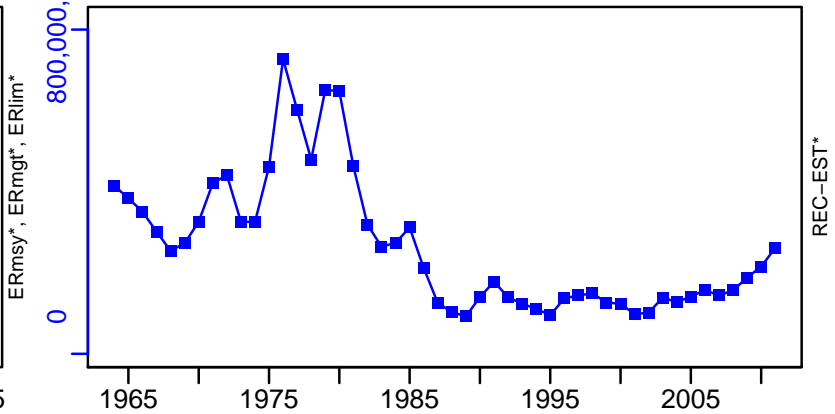
F-1/yr (1964-2013-ICESIMP2016)



ER-ratio (1965-2016-ICESIMP2016)

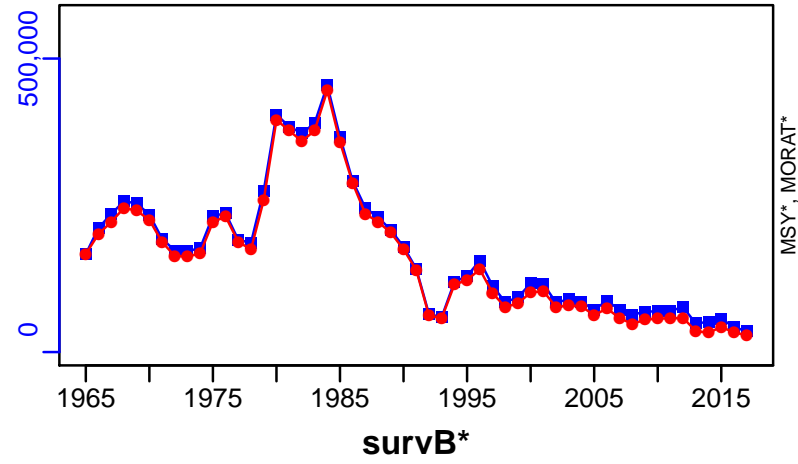


R-E00 (1964-2013-ICESIMP2016)

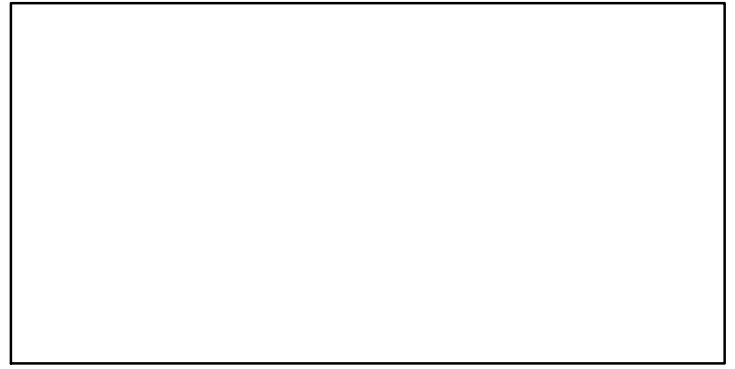


Atlantic cod Baltic Areas 25–32 [CODBA2532]

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



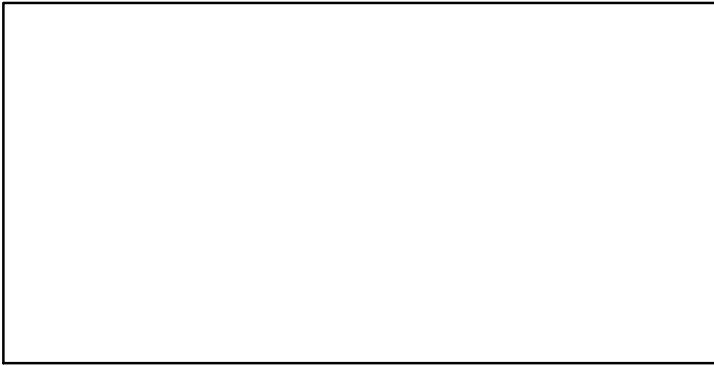
TAC*, Cpair*, Cadv*



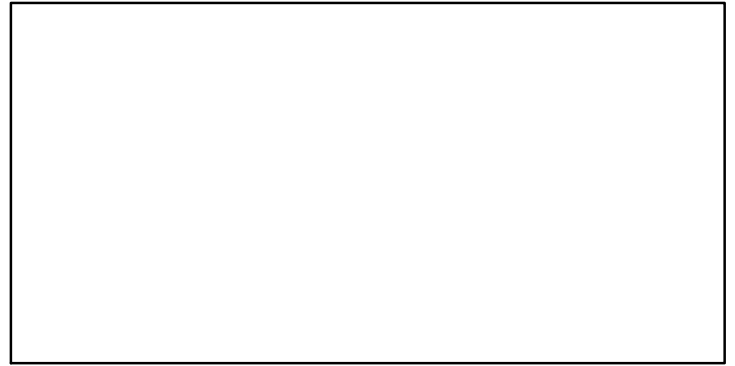
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]

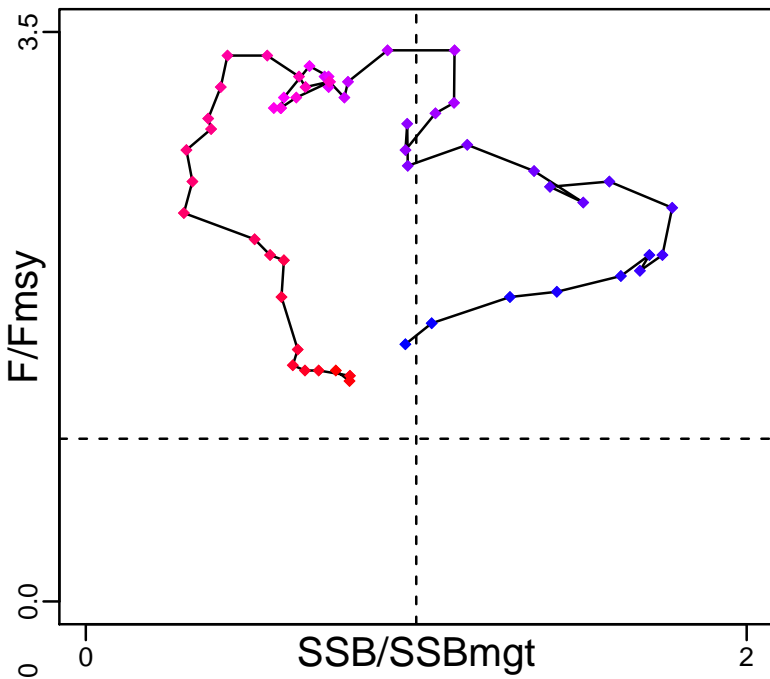
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGNSSK-CODIIIaW-IV-VIId-1962-2018-ICESIMP2018
Area	IIIa (west) and IV-VIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	150,000
Fmgt	Fmgt-1/yr	2018	0.4
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2018	107,000
Flim	Flim-1/yr	2018	0.54
ERlim	-	-	-

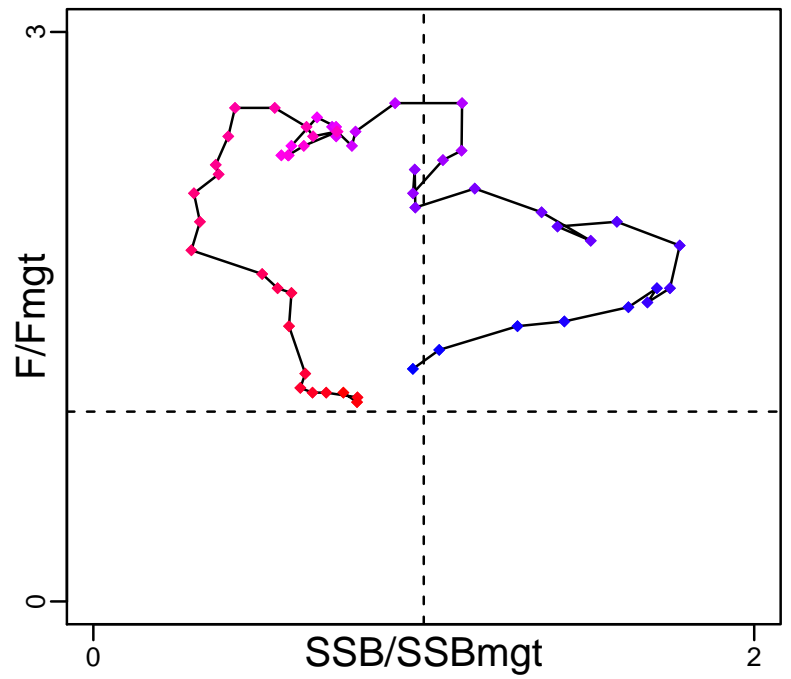
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	243,000	Both	-
SSB	SSB-MT	2018	118,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	97,400,000	-	1
F	F-1/yr	2018	0.44	-	-
ER	ER-calc-ratio	2018	0.192	-	-
TC	TC-MT	2018	46,700		
TL	TL-MT	2018	37,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.419		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.789		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.1		
ER/ERmgt	-	-	-		

Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]

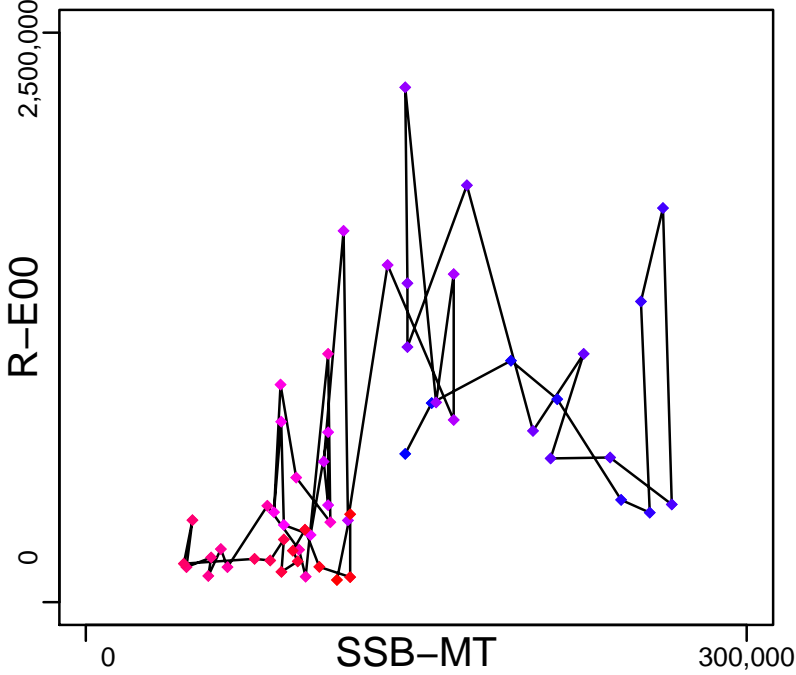
Kobe MSYpref (1962–2018–ICESIMP2018)



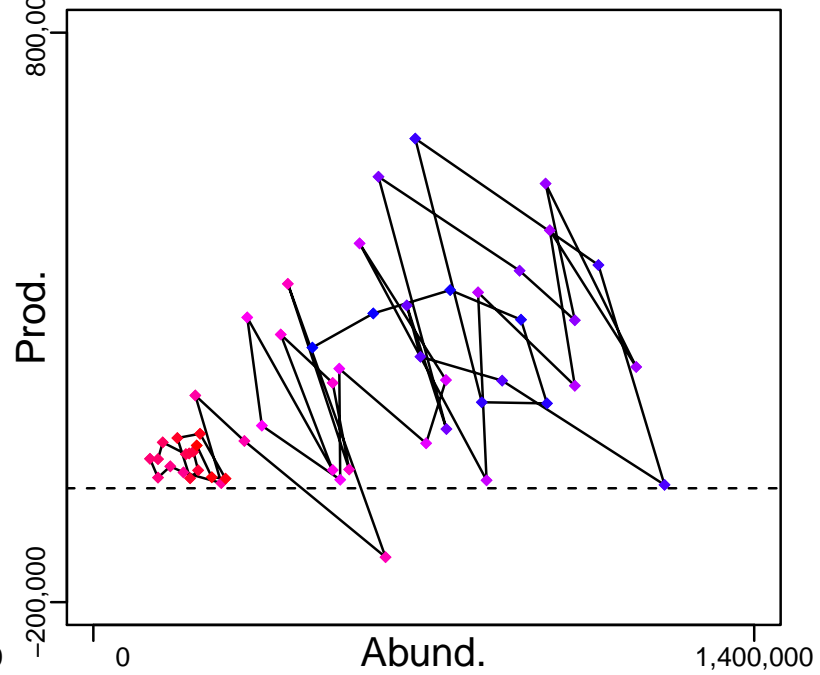
Kobe MGTpref (1962–2018–ICESIMP2018)



Spawner Recruit (1962–2018–ICESIMP2018)



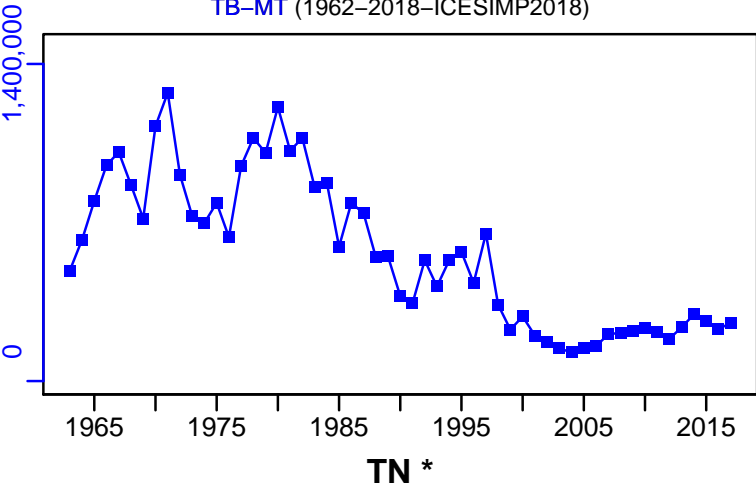
Production (1962–2018–ICESIMP2018)



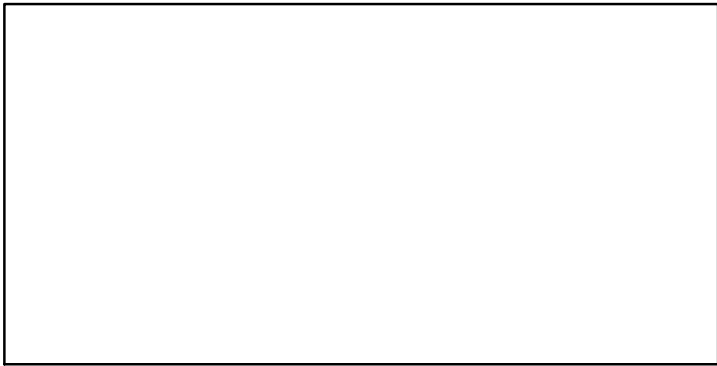
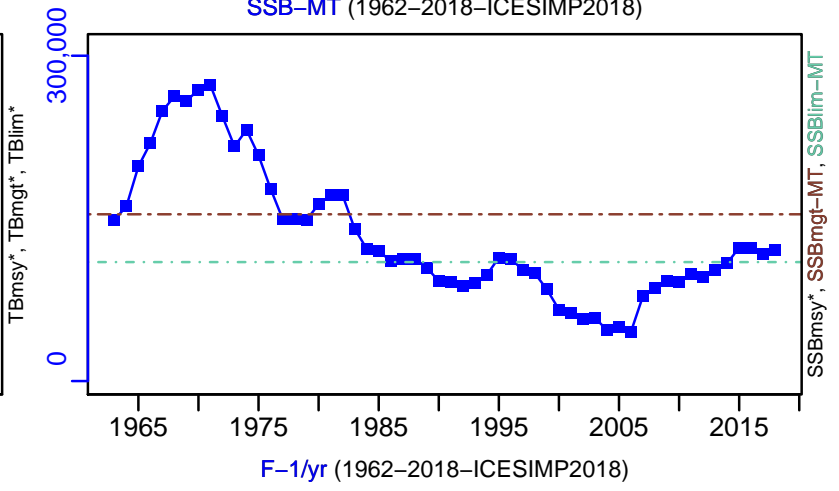
◆ Start Year ◆ End Year * No Data

Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]

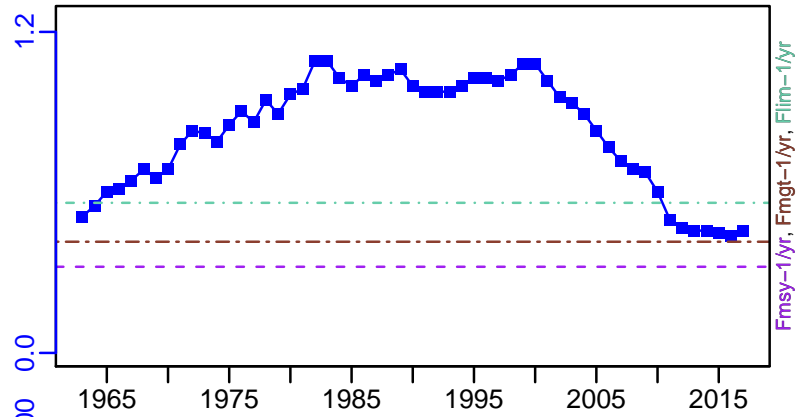
TB-MT (1962–2018–ICESIMP2018)



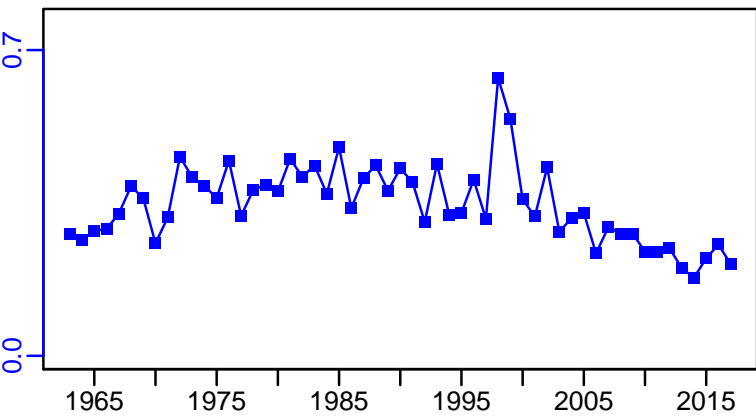
SSB-MT (1962–2018–ICESIMP2018)



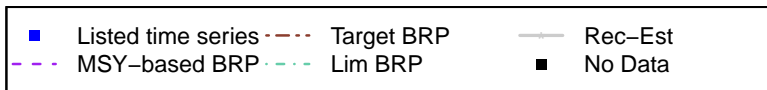
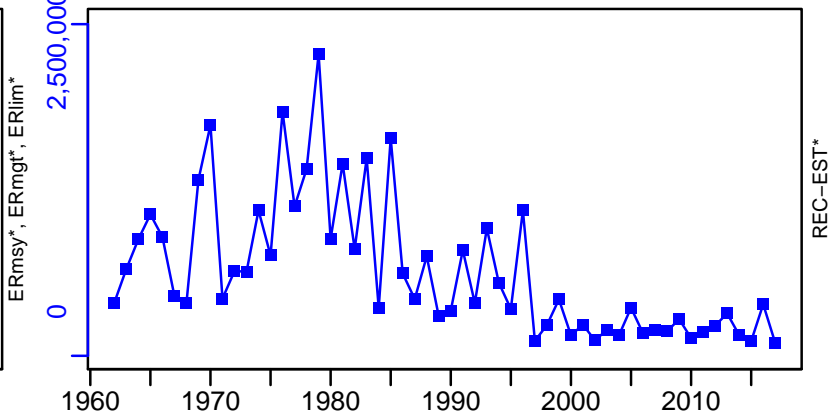
F-1/yr (1962–2018–ICESIMP2018)



ER-calc-ratio (1962–2018–ICESIMP2018)

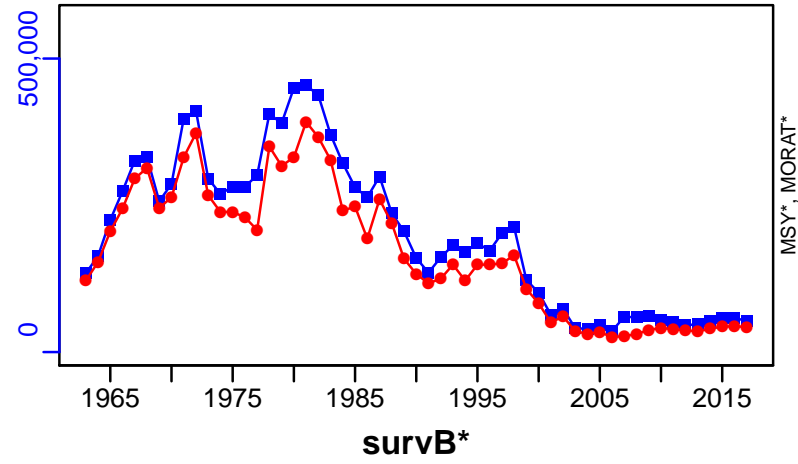


R-E00 (1962–2018–ICESIMP2018)

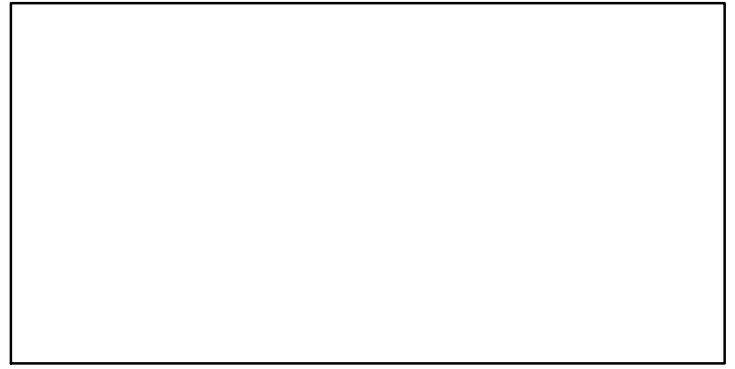


Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]

TC-MT, TL-MT, RecC* (1962-2018-ICESIMP2018)



TAC*, Cpair*, Cadv*



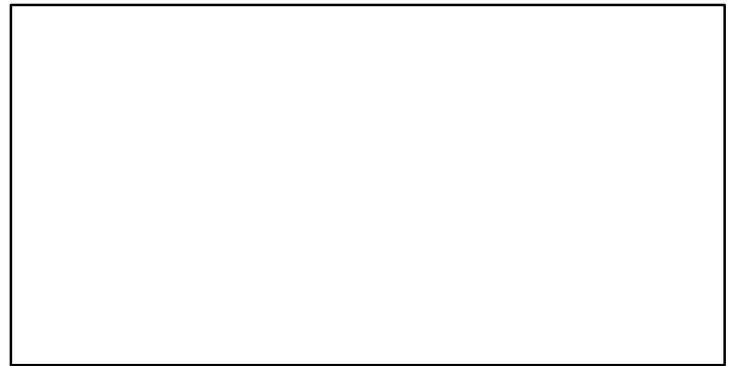
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod Irish Sea [CODIS]

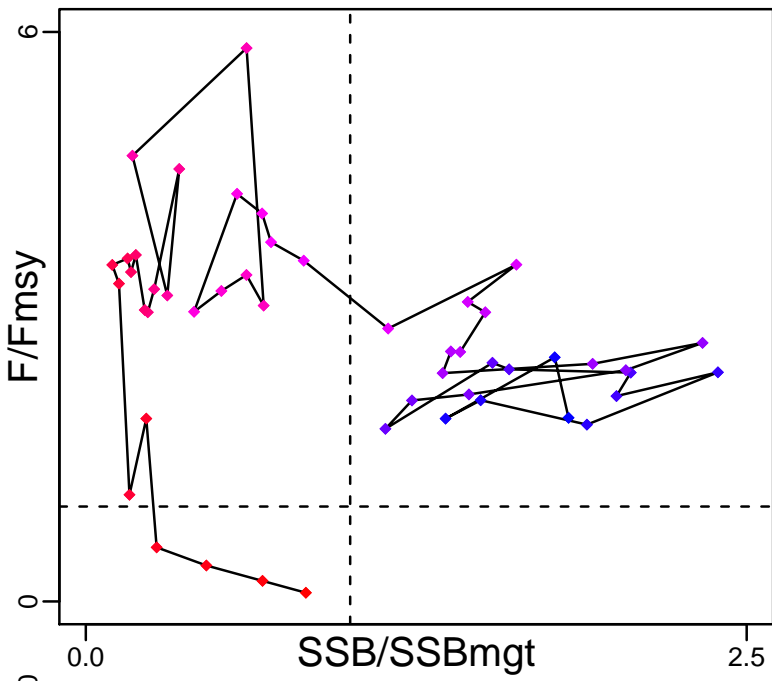
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODIS-1968-2017-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017

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

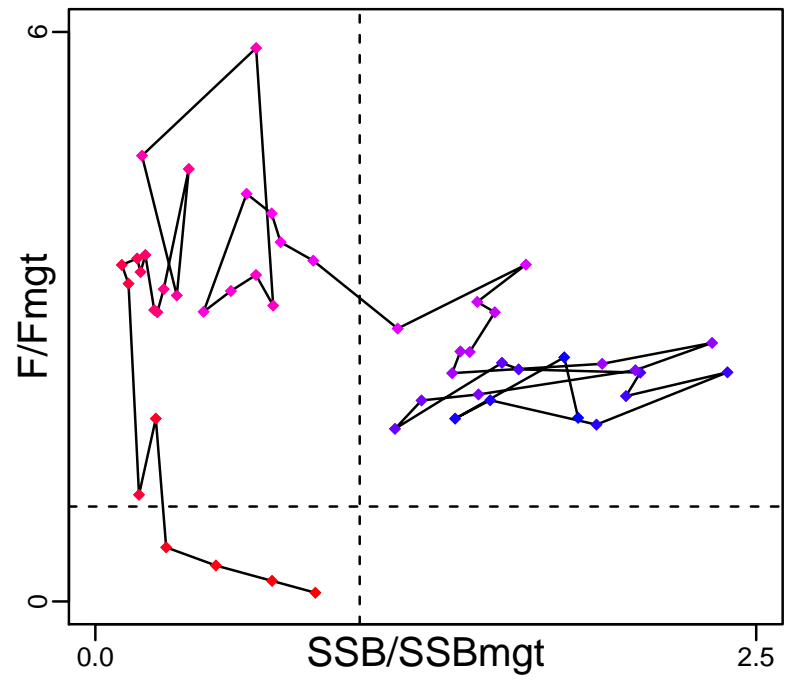
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	8650	Both	-
SSB	SSB-MT	2017	10,300	Both	-
TN	-	-	-	-	-
R	R-E00	2017	5,510,000	-	0
F	F-1/yr	2017	0.028	-	2 to 4
ER	ER-calc-ratio	2017	0.016	-	-
TC	TC-MT	2017	142		
TL	TL-MT	2017	83		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.092		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.195		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.092		
ER/ERmgt	-	-	-		

Atlantic cod Irish Sea [CODIS]

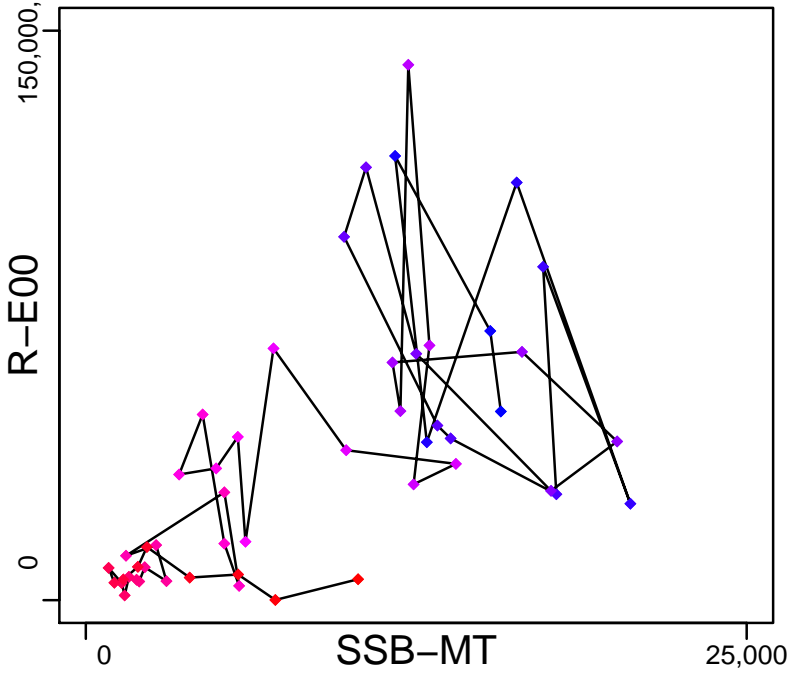
Kobe MSYpref (1968–2017–ICESIMP2018)



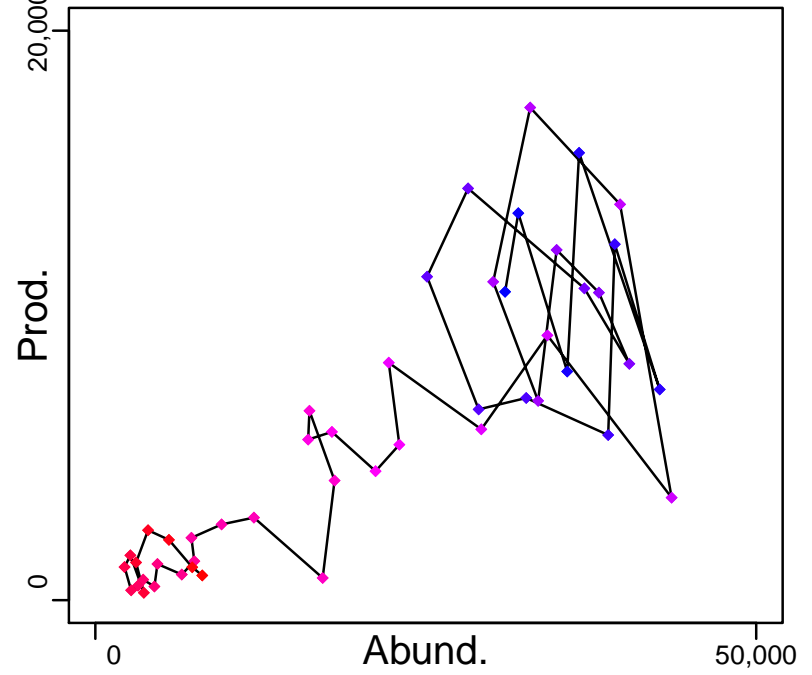
Kobe MGTpref (1968–2017–ICESIMP2018)



Spawner Recruit (1968–2017–ICESIMP2018)



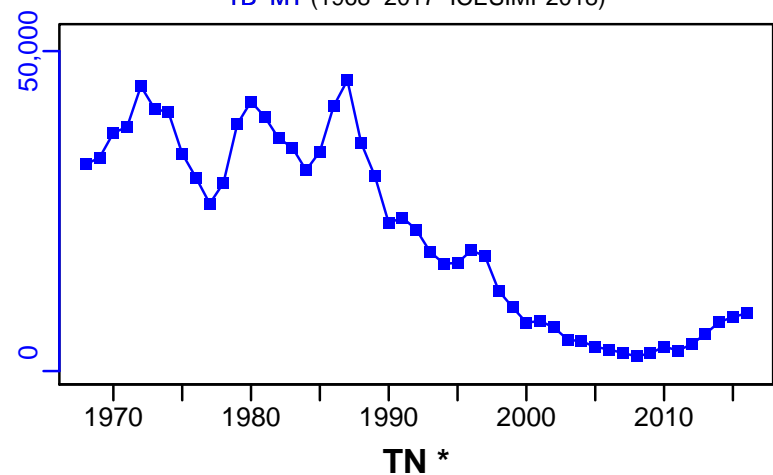
Production (1968–2017–ICESIMP2018)



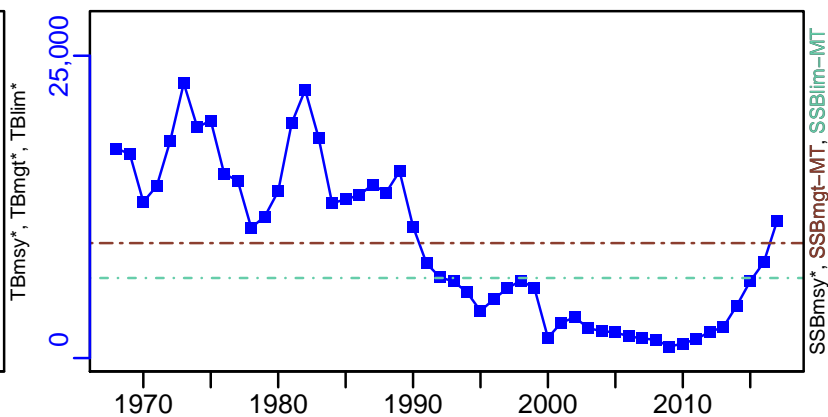
◆ Start Year ◆ End Year * No Data

Atlantic cod Irish Sea [CODIS]

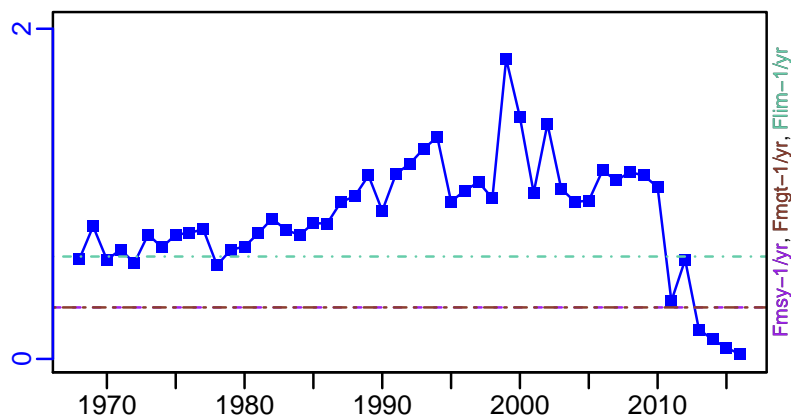
TB-MT (1968–2017–ICESIMP2018)



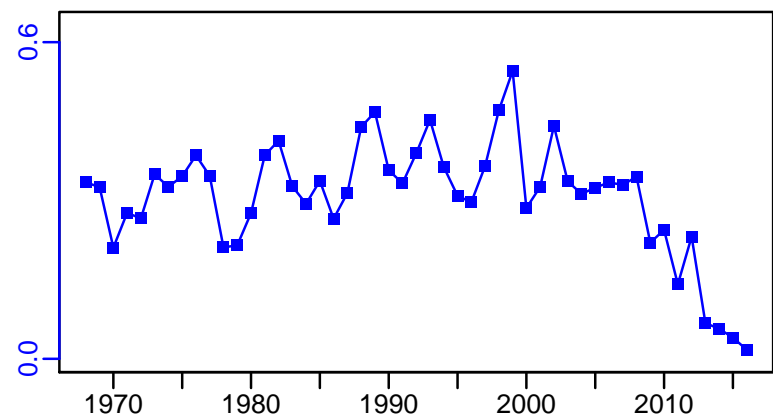
SSB-MT (1968–2017–ICESIMP2018)



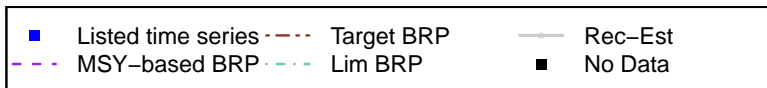
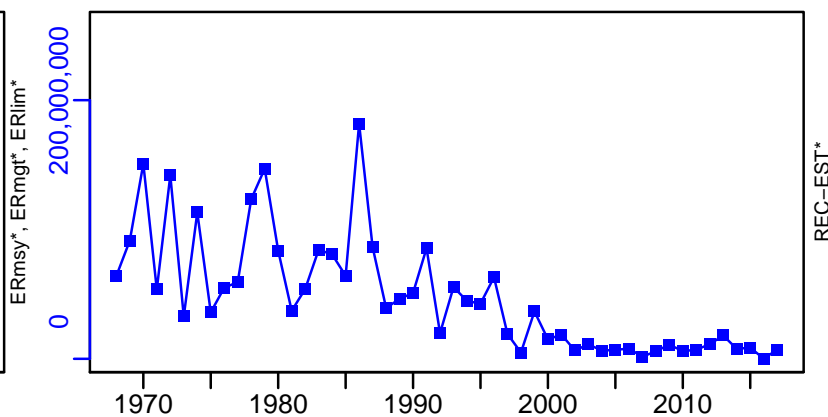
F-1/yr (1968–2017–ICESIMP2018)



ER-calc-ratio (1968–2017–ICESIMP2018)

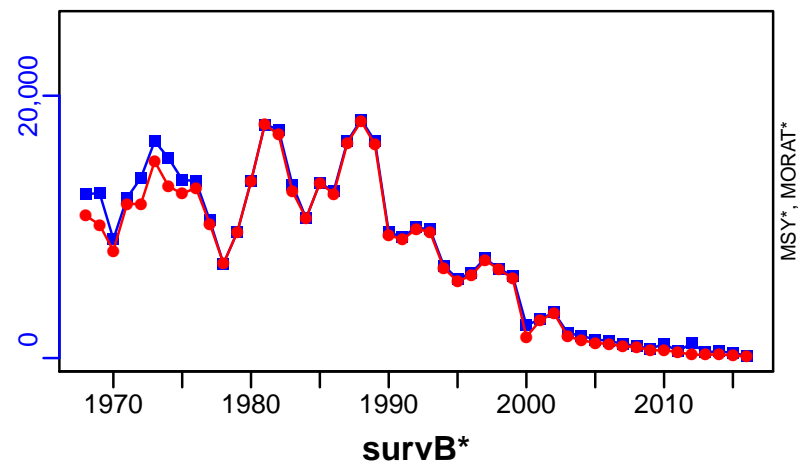


R-E00 (1968–2017–ICESIMP2018)

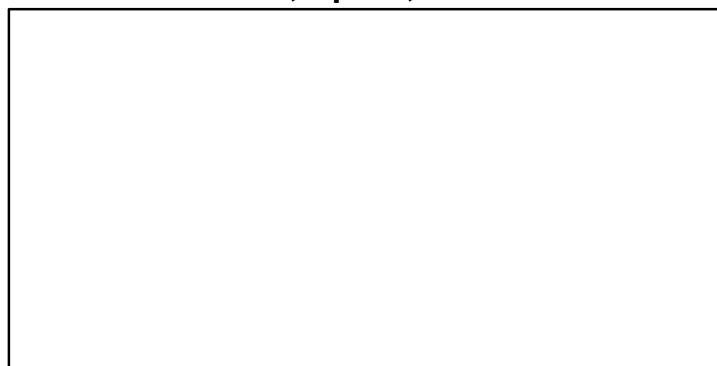


Atlantic cod Irish Sea [CODIS]

TC-MT, TL-MT, RecC* (1968–2017–ICESIMP2018)



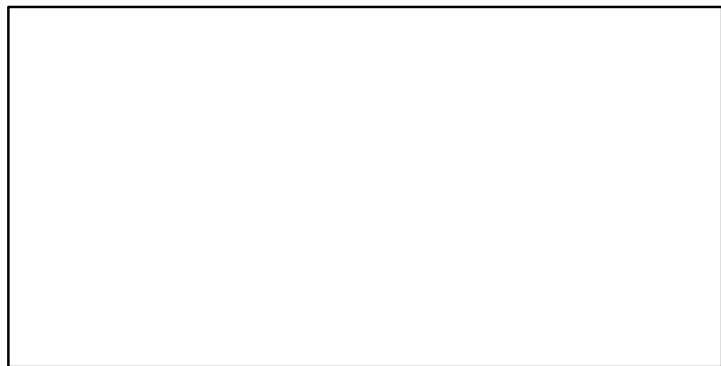
TAC*, Cpair*, Cadv*



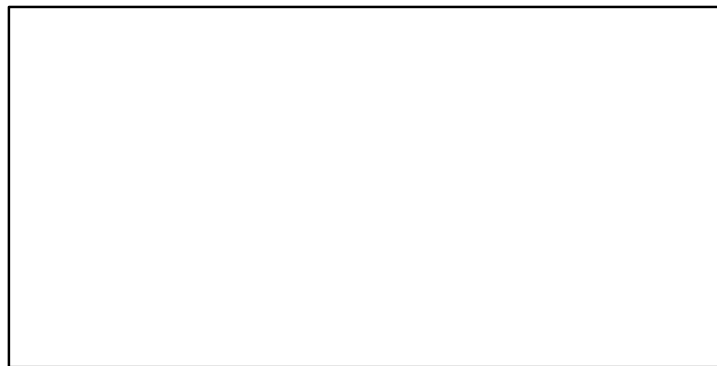
CPUE*



EFFORT*



CdivMSY*



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

Atlantic cod Kattegat [CODKAT]

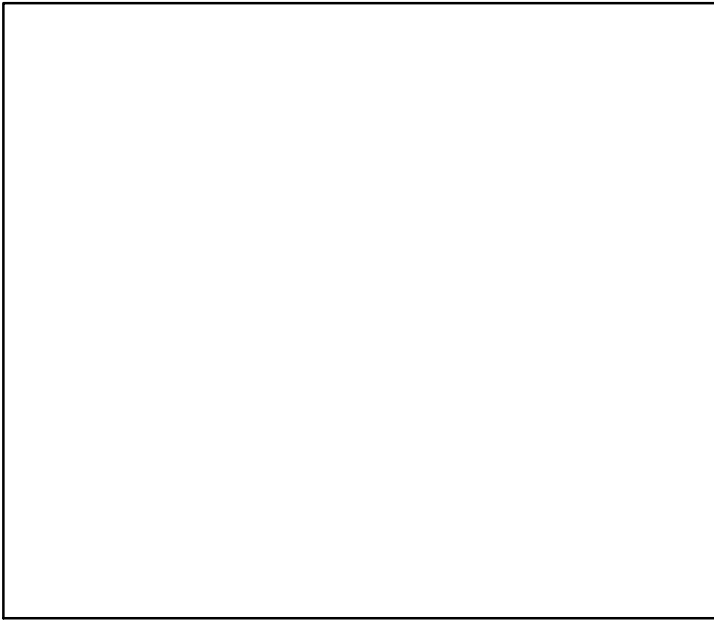
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODKAT-1996-2018-ICESIMP2018
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2015	10,500
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2012	6400
SSBlim	SSBlim-relative	2015	6400
Flim	-	-	-
ERlim	-	-	-

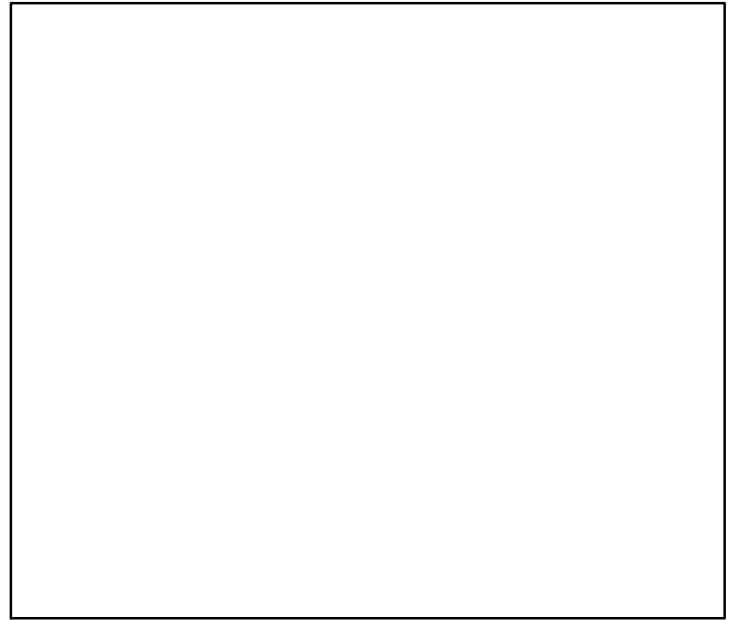
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	0.535	Both	-
SSB	SSB-relative	2018	0.527	Both	-
TN	-	-	-	-	-
R	R-relative	2018	0.698	-	1
F	F-relative	2018	0.53	-	-
ER	ER-calc-ratio	2018	1032	-	-
TC	TC-MT	2018	552		
TL	TL-MT	2018	294		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Kattegat [CODKAT]

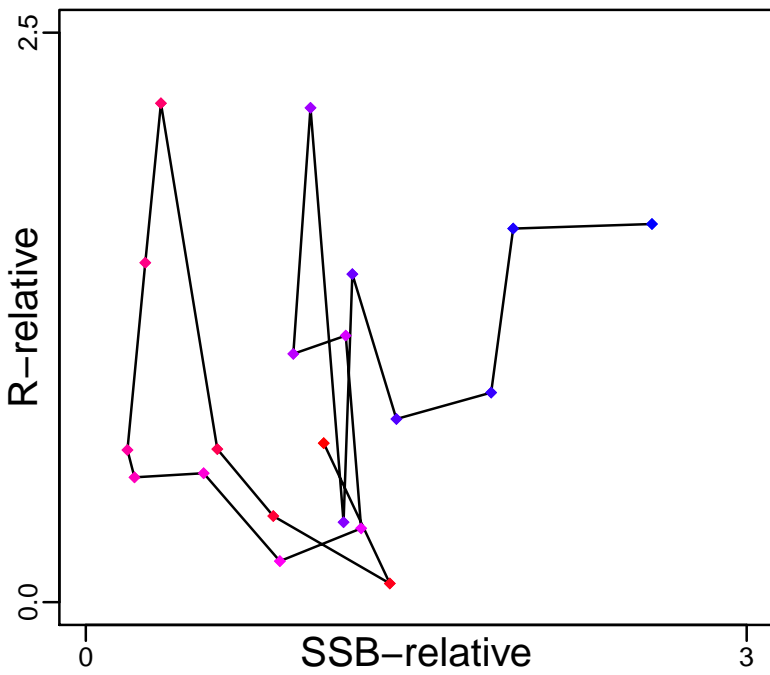
Kobe MSY*



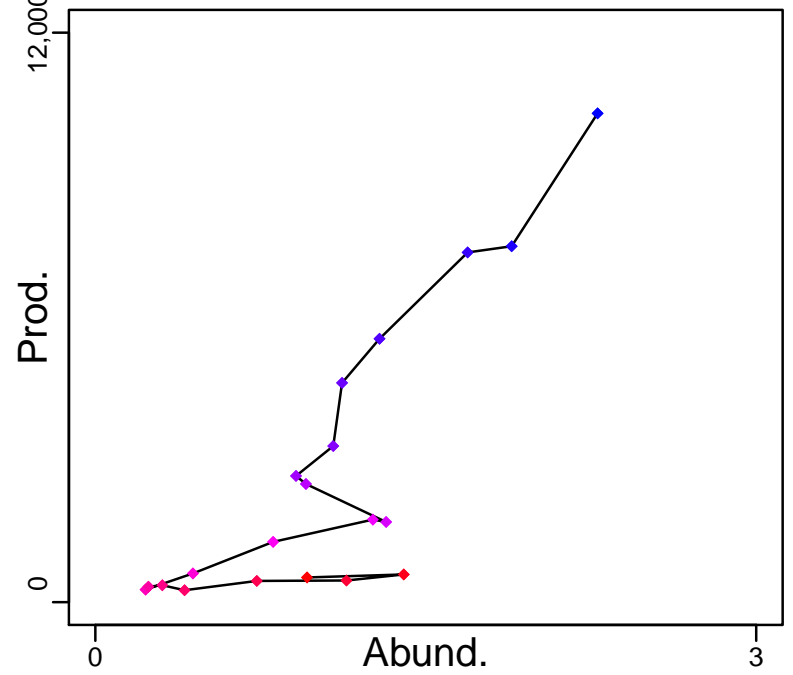
Kobe MGT*



Spawner Recruit (1996–2018–ICESIMP2018)



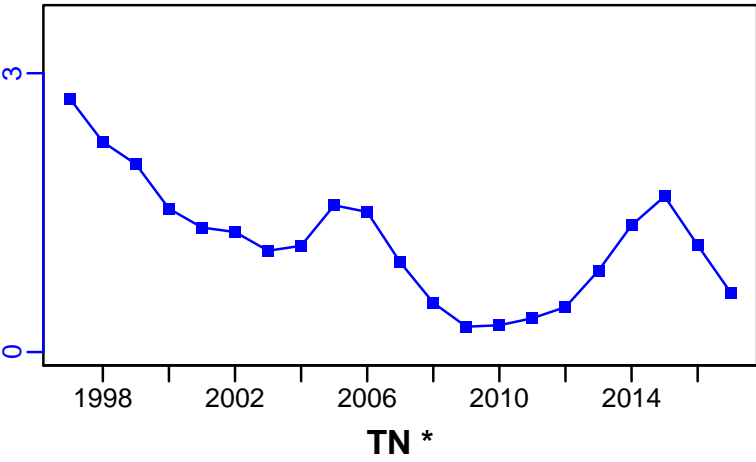
Production (1996–2018–ICESIMP2018)



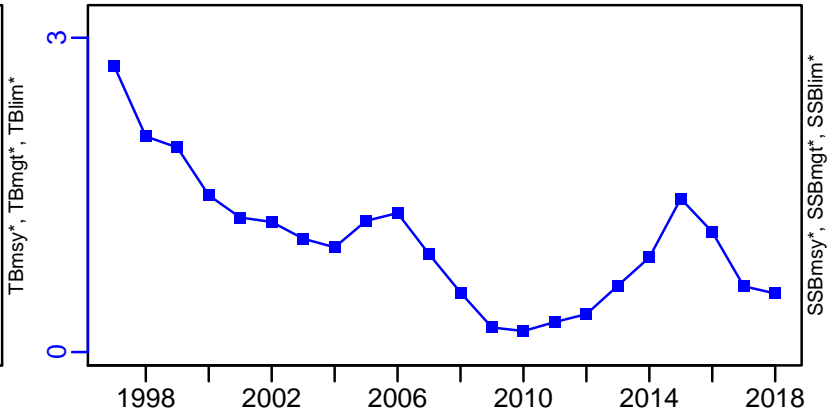
◆ Start Year ◆ End Year * No Data

Atlantic cod Kattegat [CODKAT]

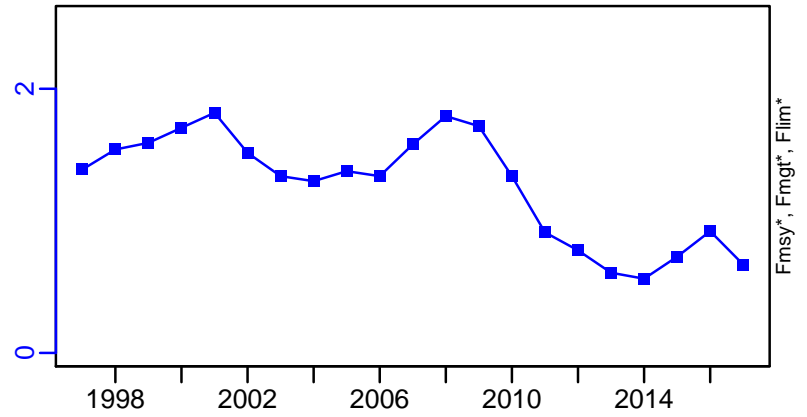
TB-MT (1996–2018–ICESIMP2018)



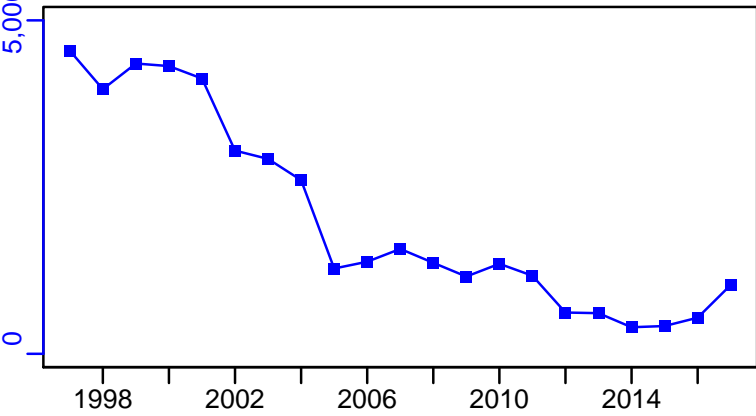
SSB-relative (1996–2018–ICESIMP2018)



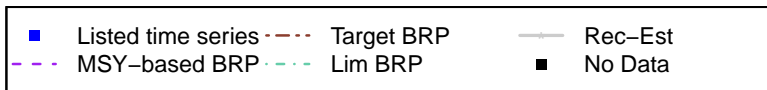
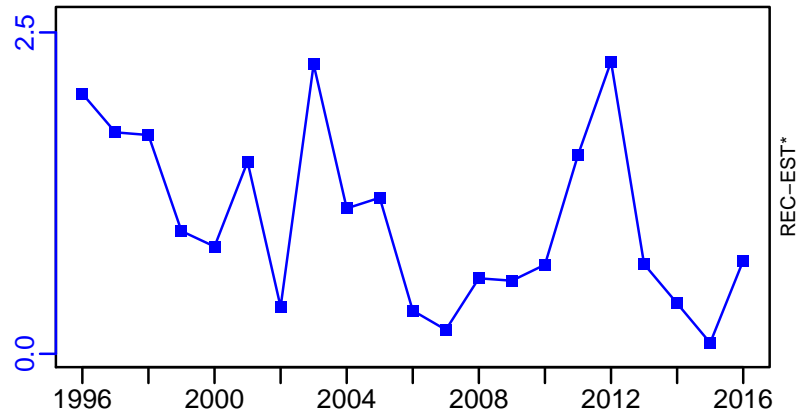
F-relative (1996–2018–ICESIMP2018)



ER-calc-ratio (1996–2018–ICESIMP2018)

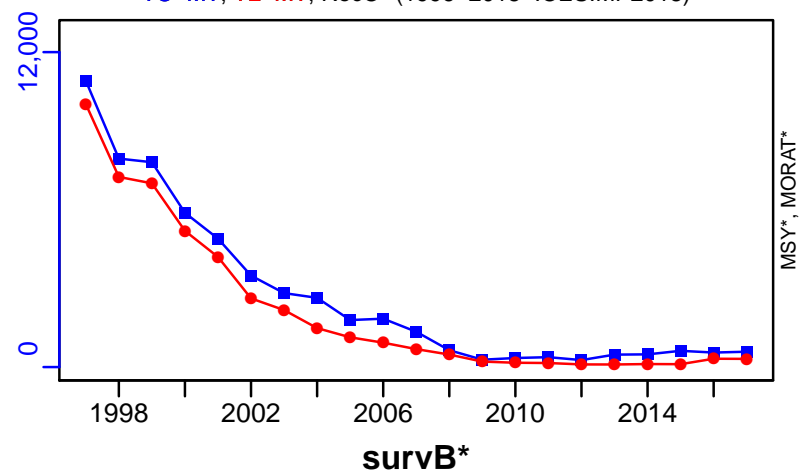


R-relative (1996–2018–ICESIMP2018)

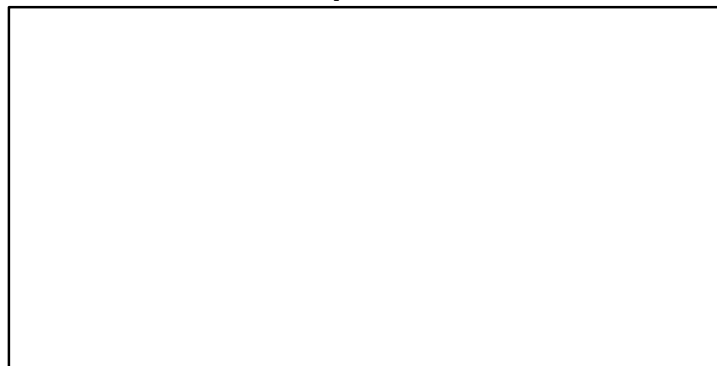


Atlantic cod Kattegat [CODKAT]

TC-MT, TL-MT, RecC* (1996–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



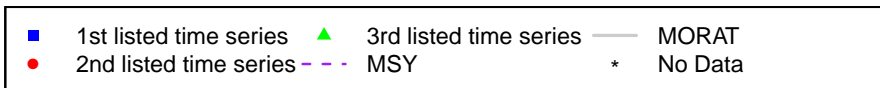
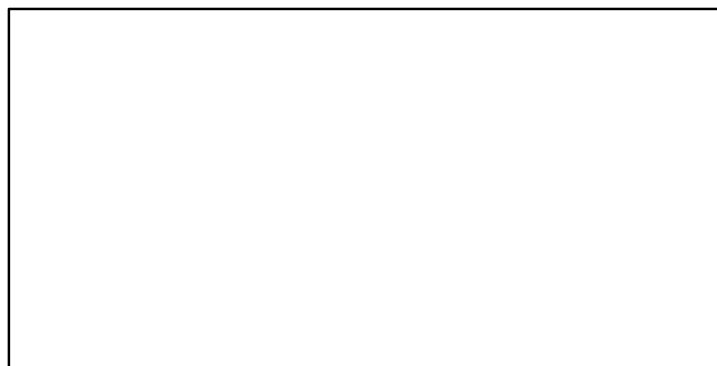
CPUE*



EFFORT*



CdivMSY*



Atlantic cod West of Scotland [CODVla]

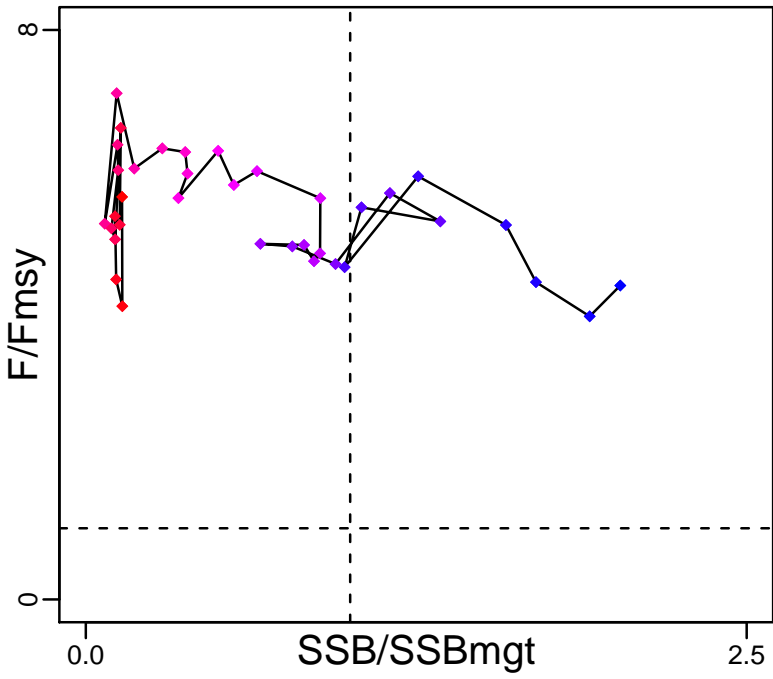
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVla-1980-2017-ICESIMP2018
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2017, 2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2012	22,000
Fmsy	Fmsy-1/yr	2017	0.167
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	20,000
Fmgt	Fmgt-1/yr	2017	0.167
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	14,000
Flim	Flim-1/yr	2017	0.82
ERlim	-	-	-

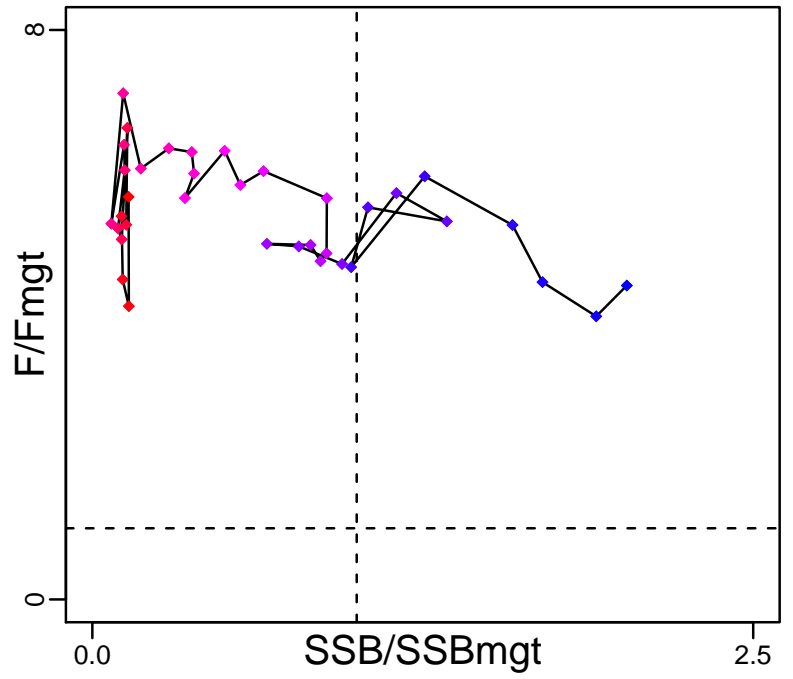
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	4250	Both	-
SSB	SSB-MT	2017	2480	Both	-
TN	-	-	-	-	-
R	R-E00	2017	3,610,000	-	1
F	F-1/yr	2017	0.944	-	2 to 5
ER	ER-calc-ratio	2017	0.42	-	-
TC	TC-MT	2017	1740		
TL	TL-MT	2017	892		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2012	0.169		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	5.655		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.124		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	5.655		
ER/ERmgt	-	-	-		

Atlantic cod West of Scotland [CODVla]

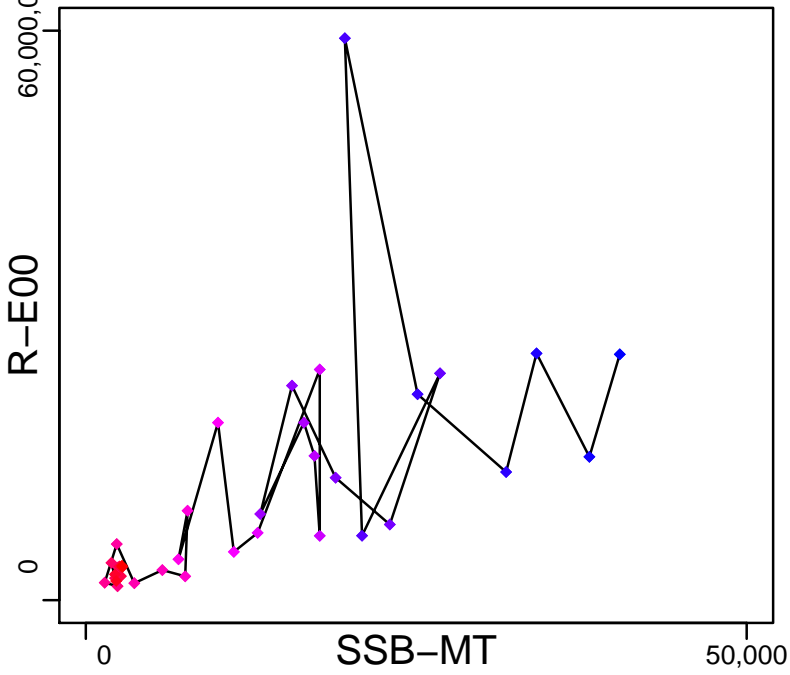
Kobe MSYpref (1980–2017–ICESIMP2018)



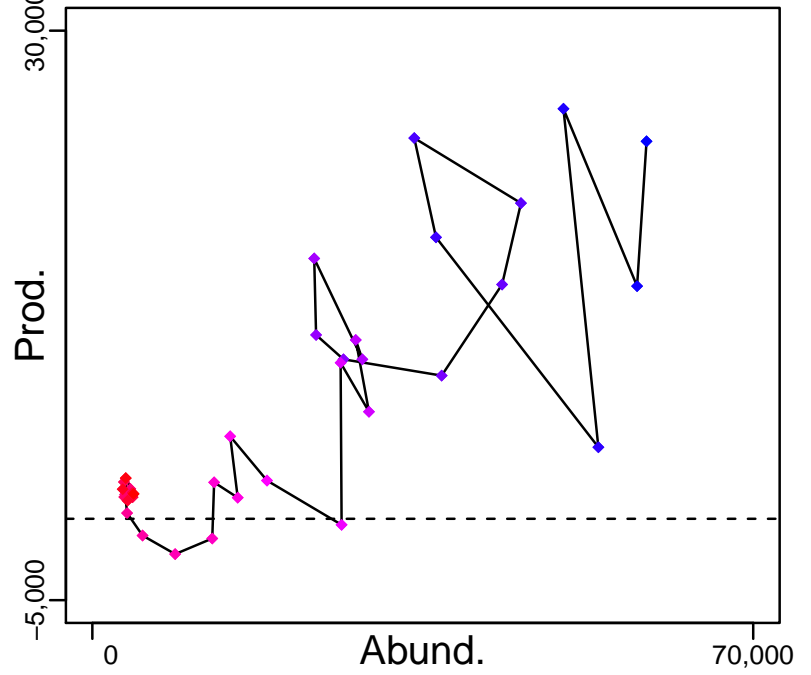
Kobe MGTpref (1980–2017–ICESIMP2018)



Spawner Recruit (1980–2017–ICESIMP2018)



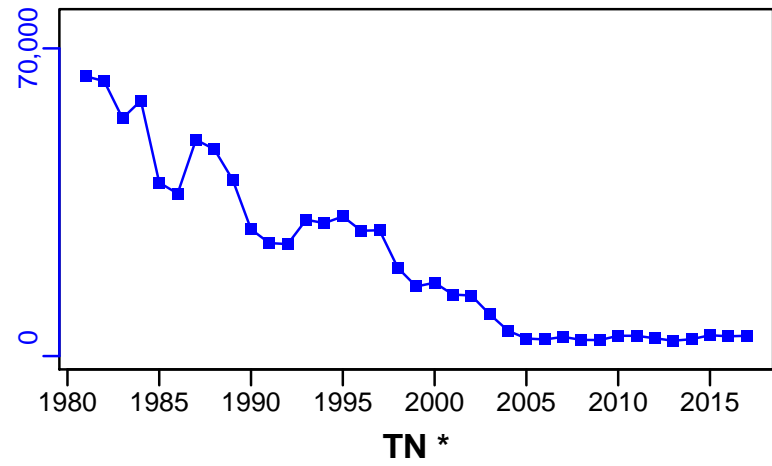
Production (1980–2017–ICESIMP2018)



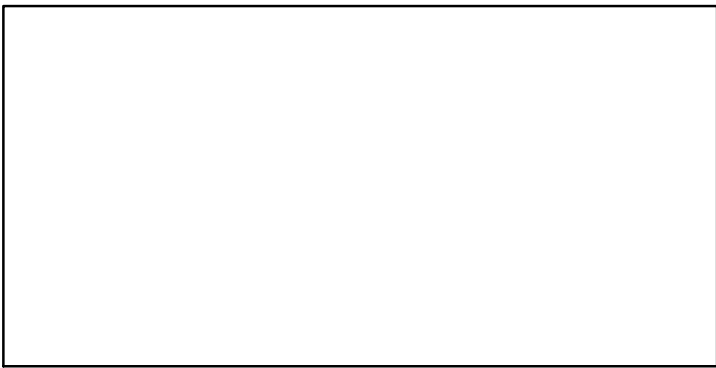
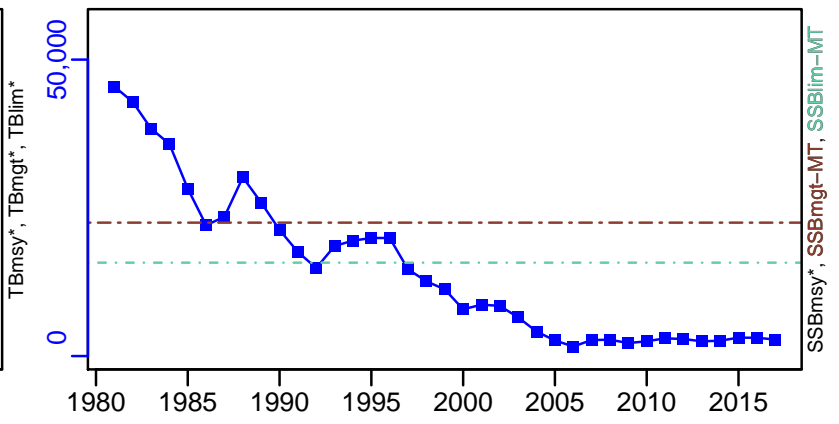
◆ Start Year ◆ End Year * No Data

Atlantic cod West of Scotland [CODVla]

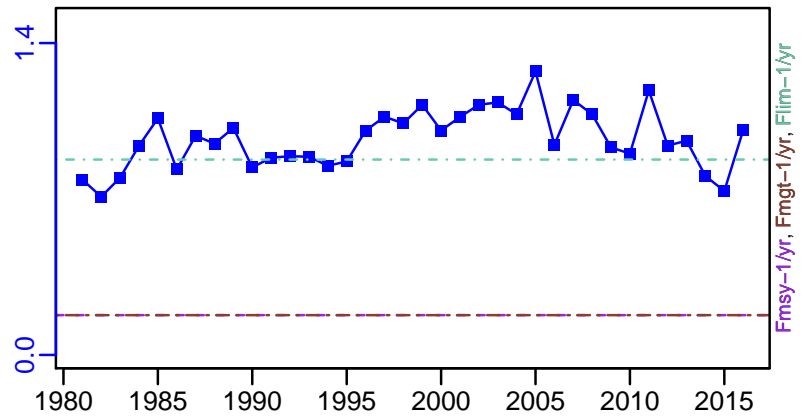
TB-MT (1980–2017–ICESIMP2018)



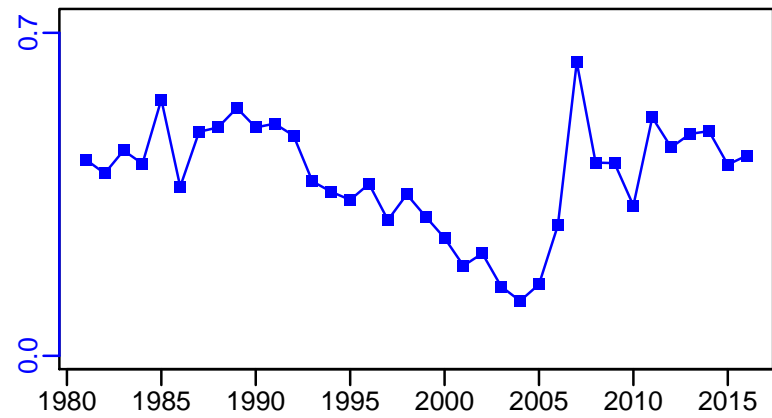
SSB-MT (1980–2017–ICESIMP2018)



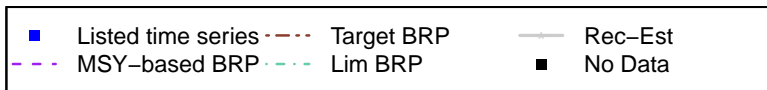
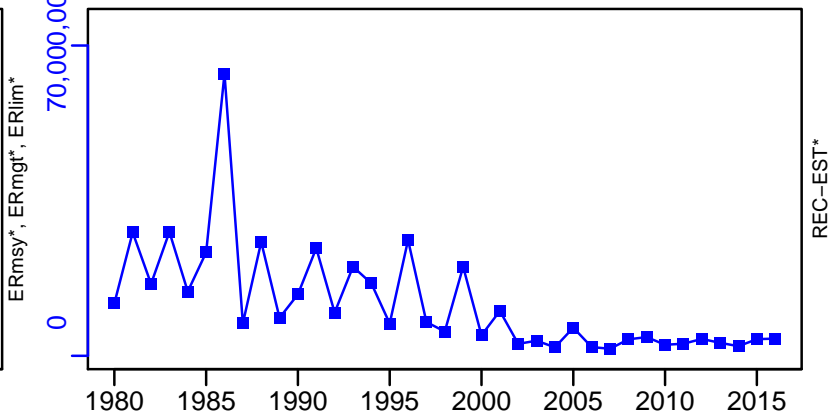
F-1/yr (1980–2017–ICESIMP2018)



ER-calc-ratio (1980–2017–ICESIMP2018)



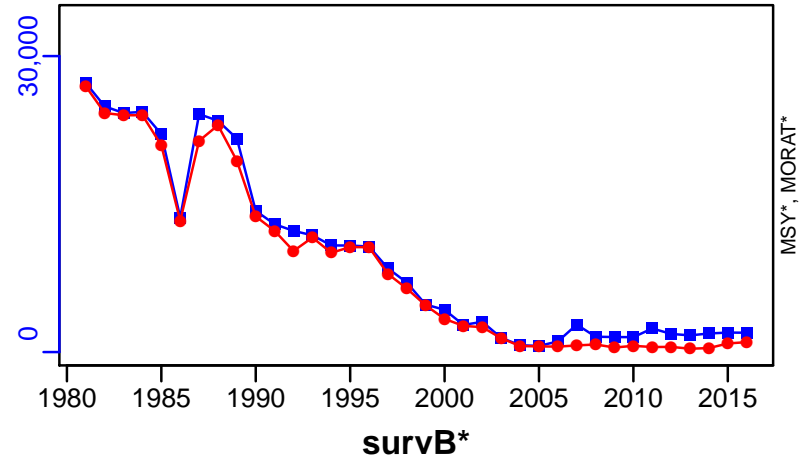
R-E00 (1980–2017–ICESIMP2018)



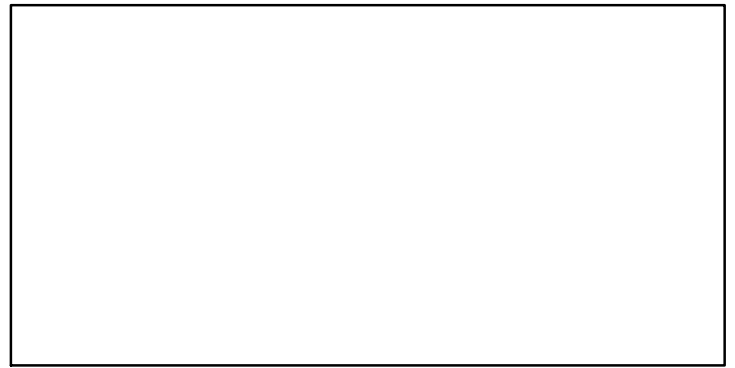
Atlantic cod West of Scotland [CODVla]

TC-MT, TL-MT, RecC* (1980–2017–ICESIMP2018)

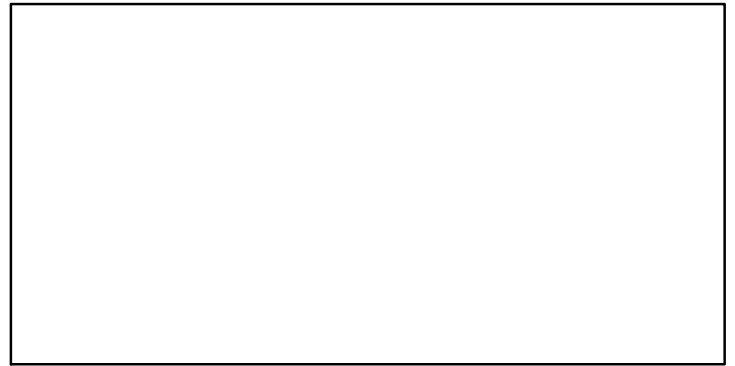
TAC*, Cpair*, Cadv*



MSY*, MORAT*



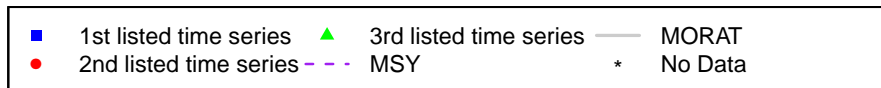
CPUE*



EFFORT*



CdivMSY*



Atlantic cod Rockall Bank [CODVlb]

Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVlb-1984-2016-ICESIMP2018
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	62		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

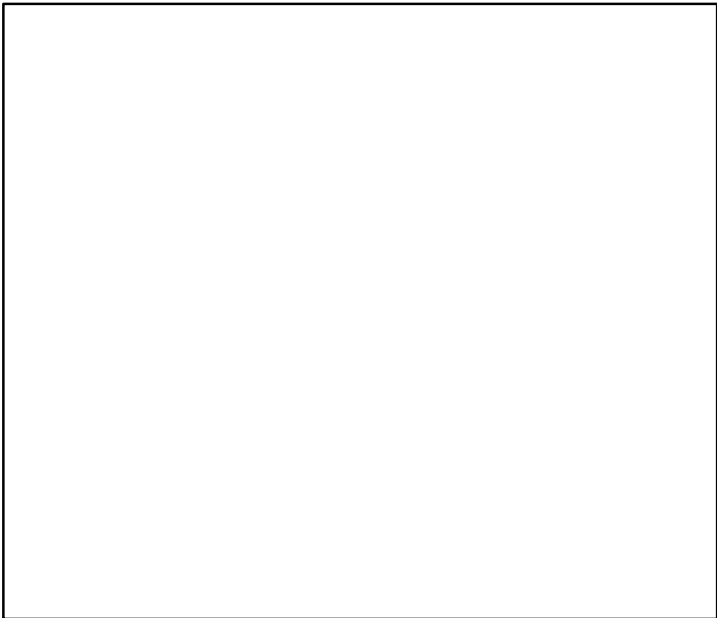
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

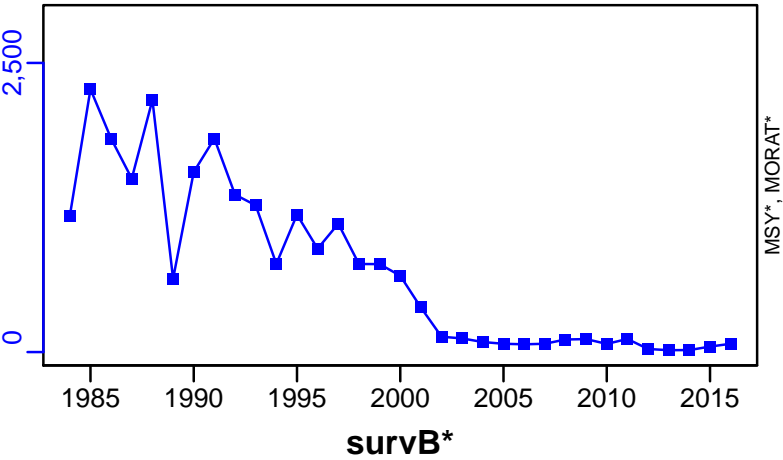


Recruits*



Atlantic cod Rockall Bank [CODVlb]

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



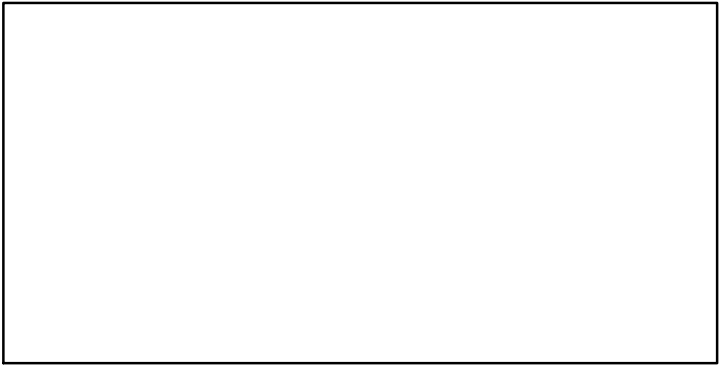
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Atlantic Cod Celtic Sea [CODVllek]

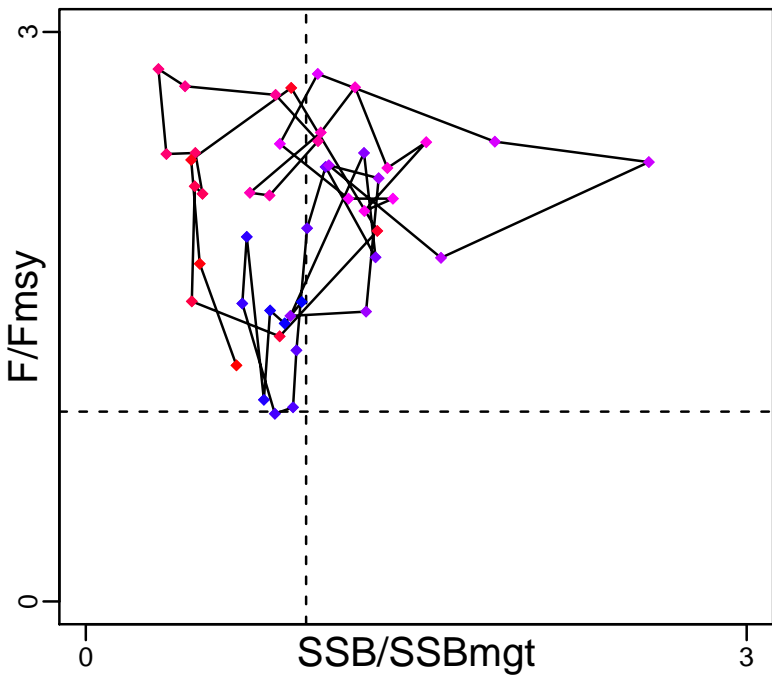
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVllek-1970-2017-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017

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

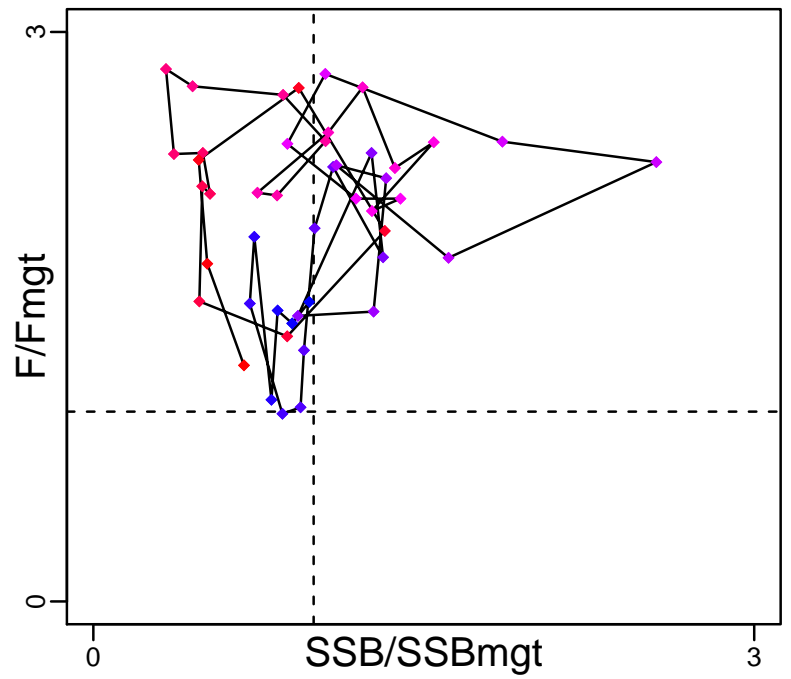
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	10,300	Both	-
SSB	SSB-MT	2017	7140	Both	-
TN	-	-	-	-	-
R	R-E00	2017	4,510,000	-	1
F	F-1/yr	2017	0.439	-	2 to 5
ER	ER-calc-ratio	2017	0.343	-	-
TC	TC-MT	2017	3520		
TL	TL-MT	2017	3300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.244		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.693		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	1.244		
ER/ERmgt	-	-	-		

Atlantic Cod Celtic Sea [CODVllek]

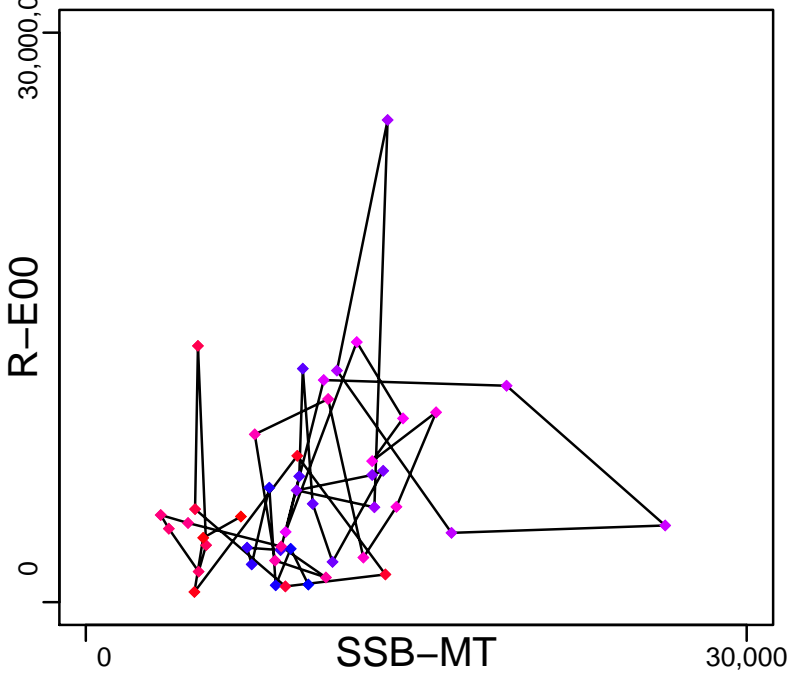
Kobe MSYpref (1970–2017–ICESIMP2018)



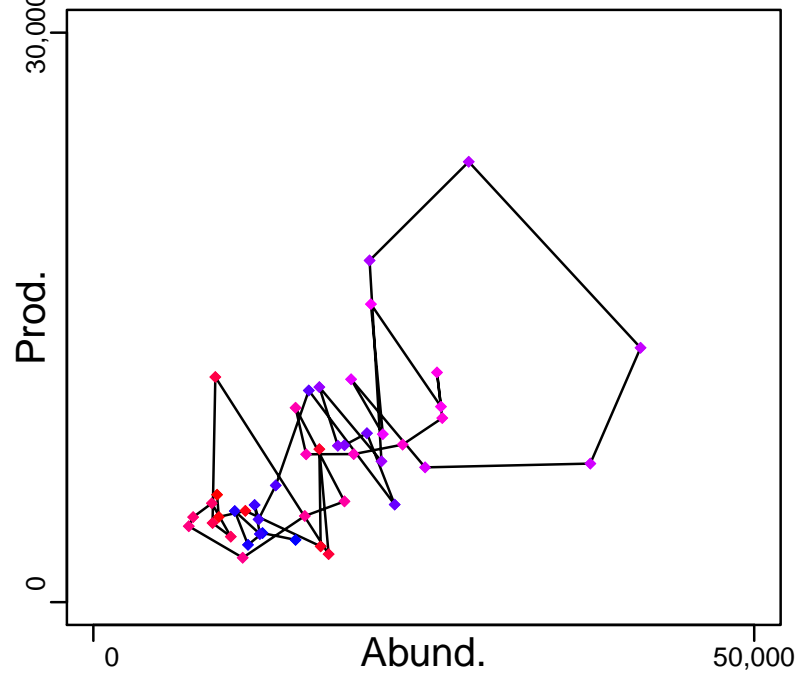
Kobe MGTpref (1970–2017–ICESIMP2018)



Spawner Recruit (1970–2017–ICESIMP2018)



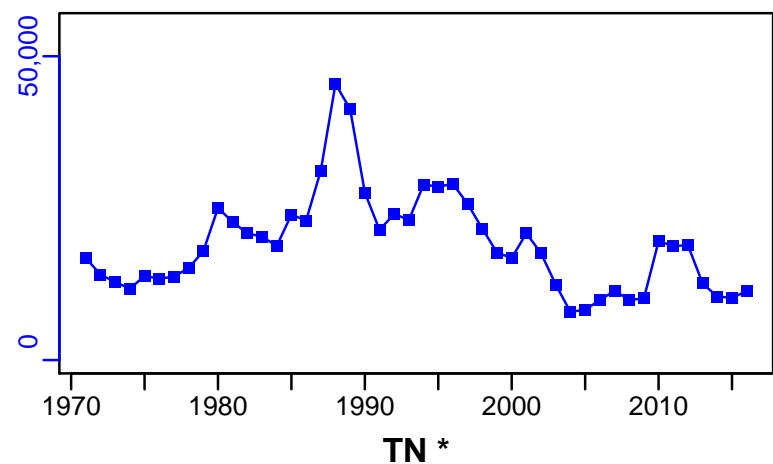
Production (1970–2017–ICESIMP2018)



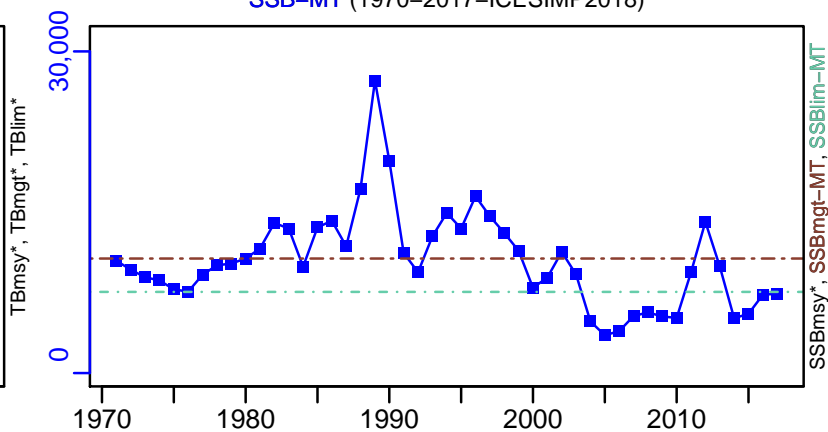
◆ Start Year ◆ End Year * No Data

Atlantic Cod Celtic Sea [CODVilek]

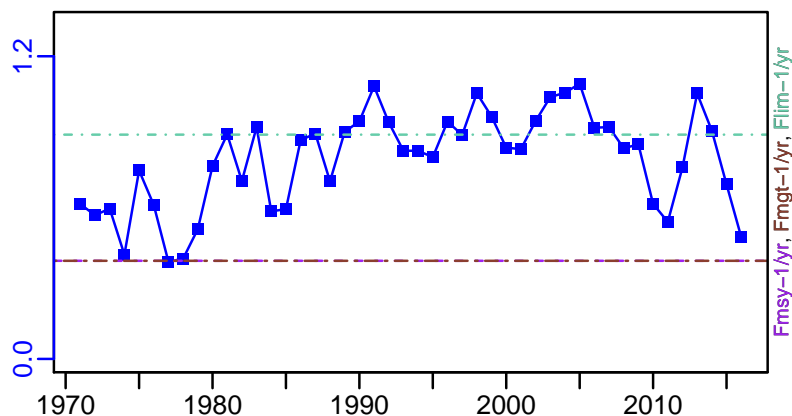
TB-MT (1970–2017–ICESIMP2018)



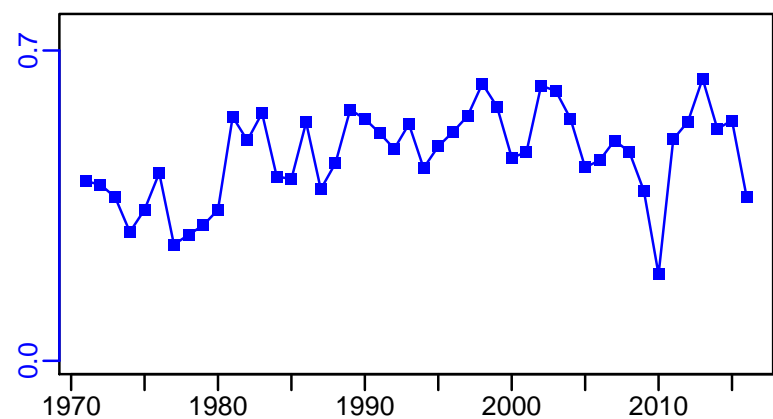
SSB-MT (1970–2017–ICESIMP2018)



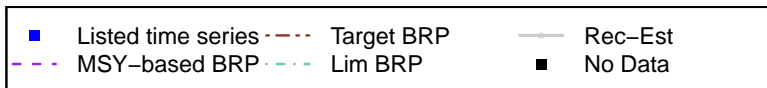
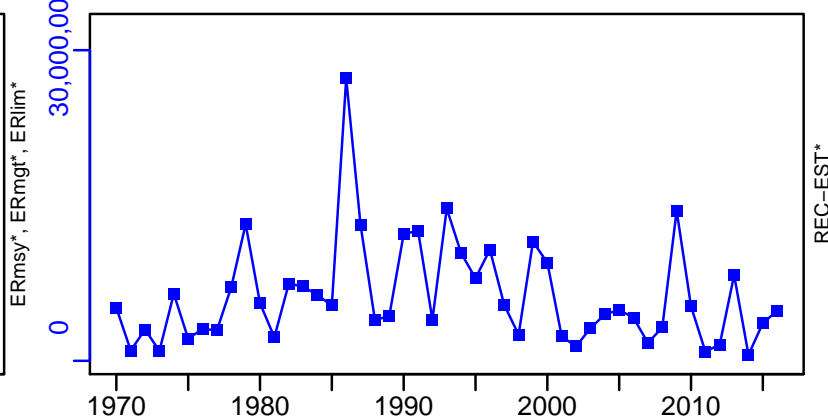
F-1/yr (1970–2017–ICESIMP2018)



ER-calc-ratio (1970–2017–ICESIMP2018)

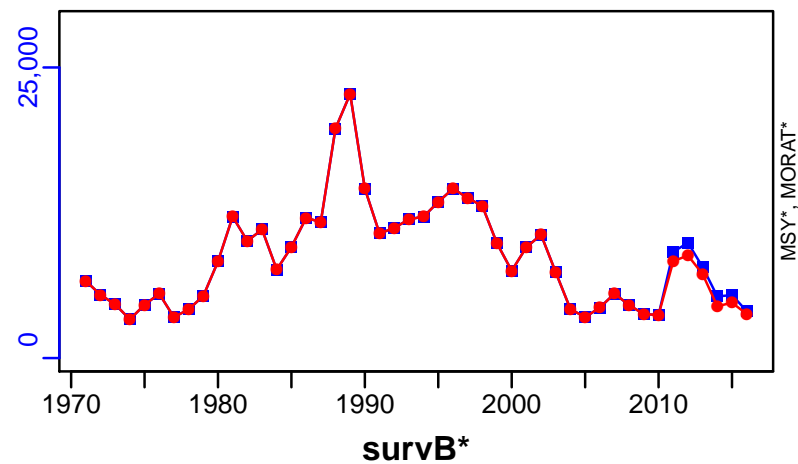


R-E00 (1970–2017–ICESIMP2018)

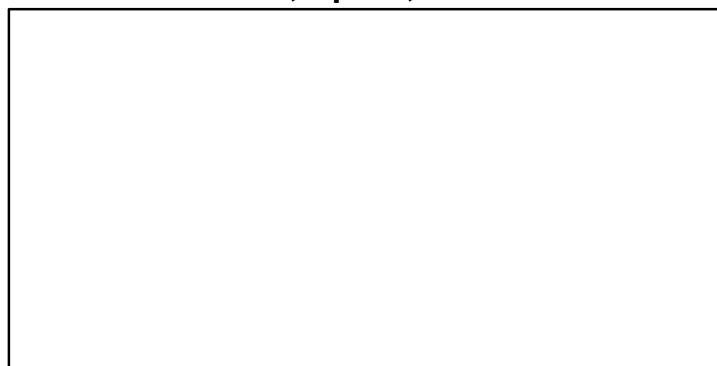


Atlantic Cod Celtic Sea [CODVllek]

TC-MT, TL-MT, RecC* (1970–2017–ICESIMP2018)



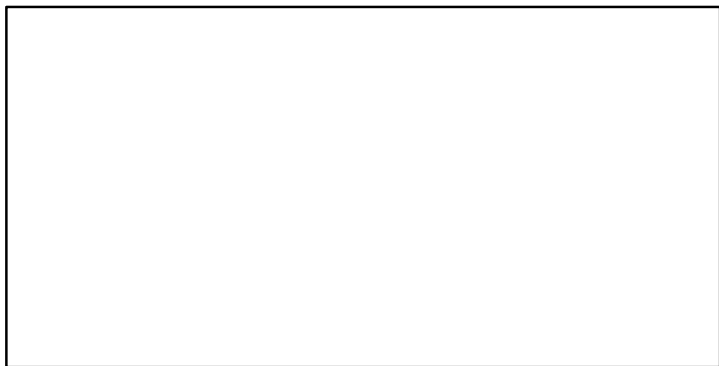
TAC*, Cpair*, Cadv*



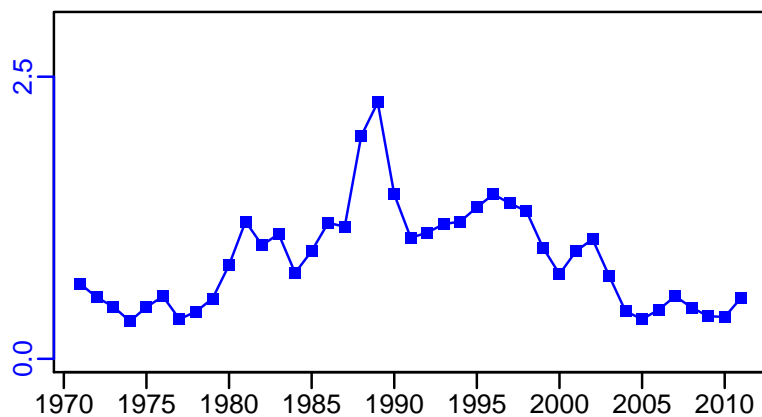
CPUE*



EFFORT*



CdivMSY-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-1988-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	131	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	4590		
TL	TL-MT	2016	4820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

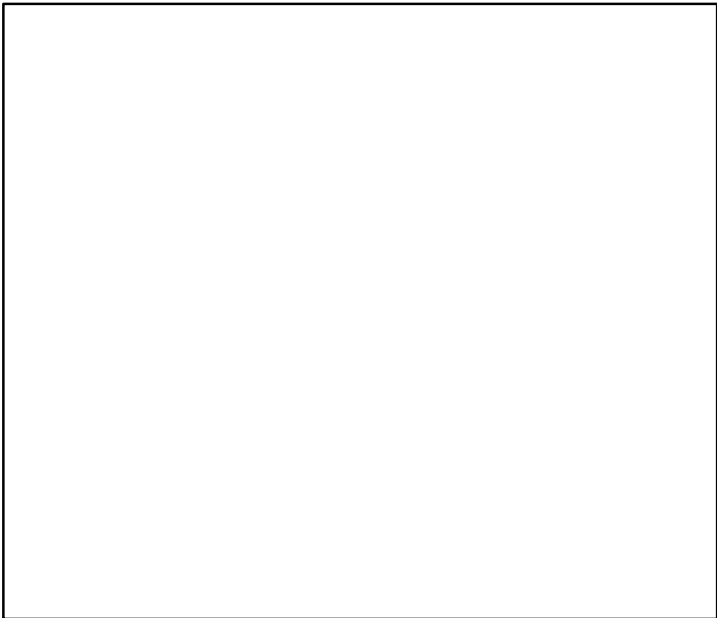
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



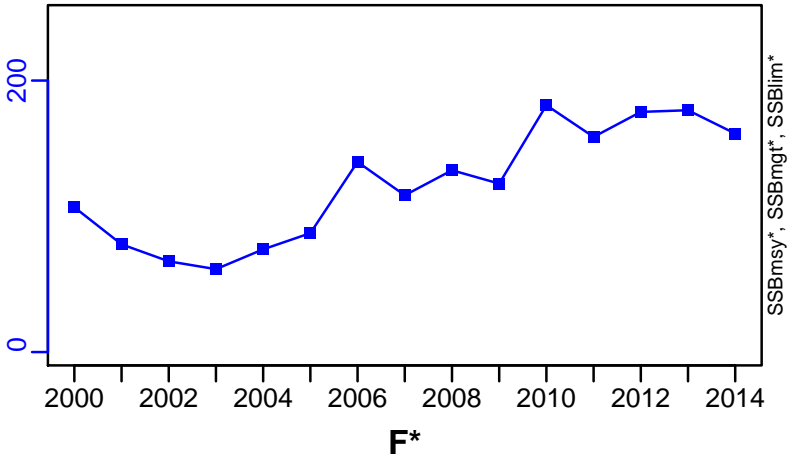
◆ Start Year ◆ End Year * No Data

Tusk Northeast Atlantic [CUSKNEATL]

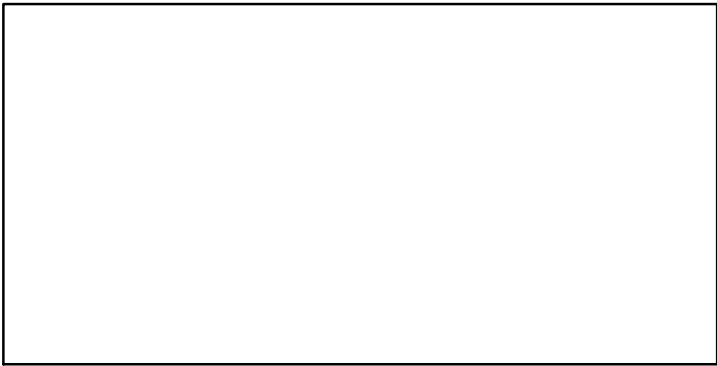
TB*



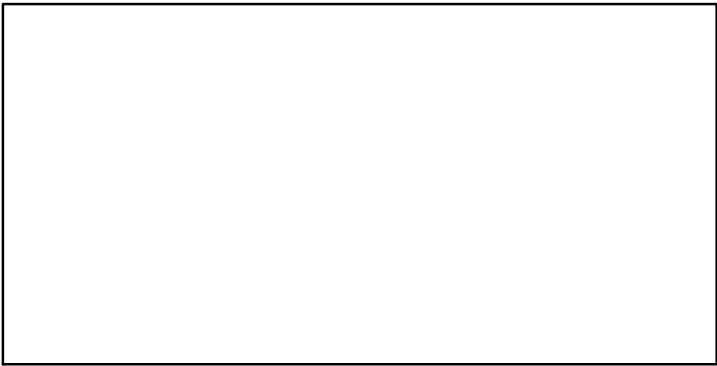
SSB-MT (1988–2014–ICESIMP2018)



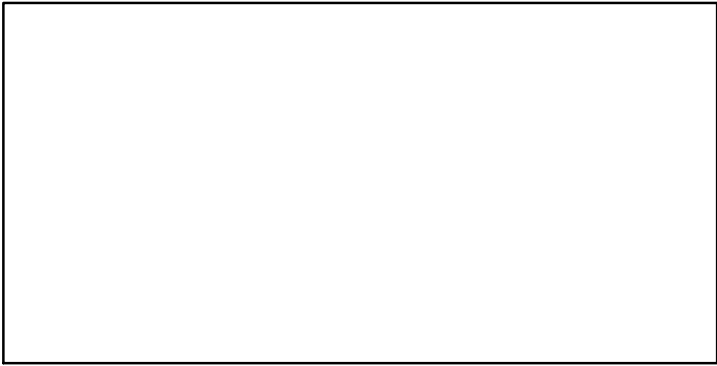
TN *



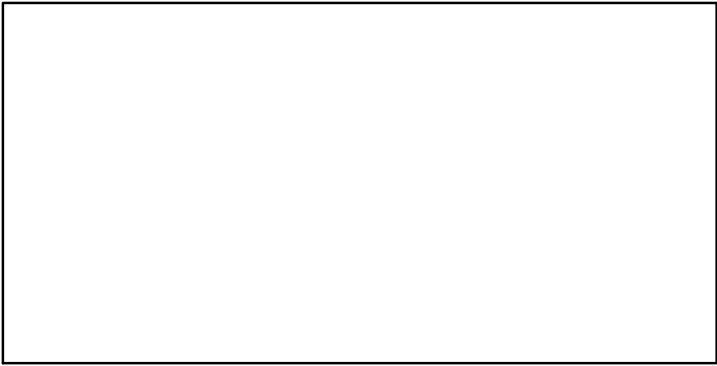
F*



ER*

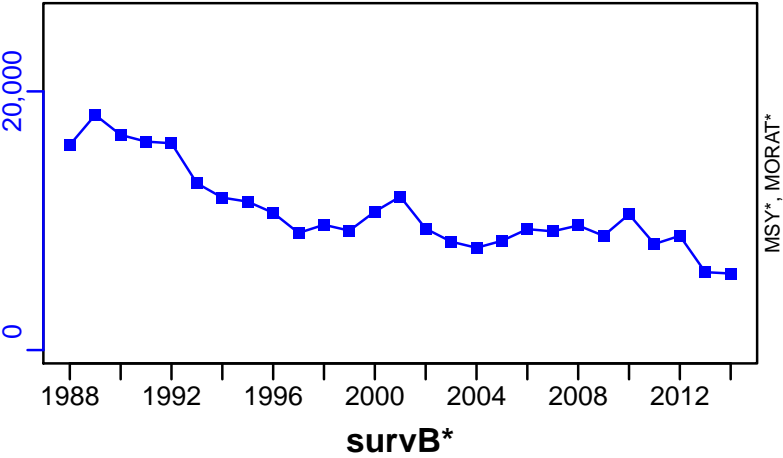


Recruits*

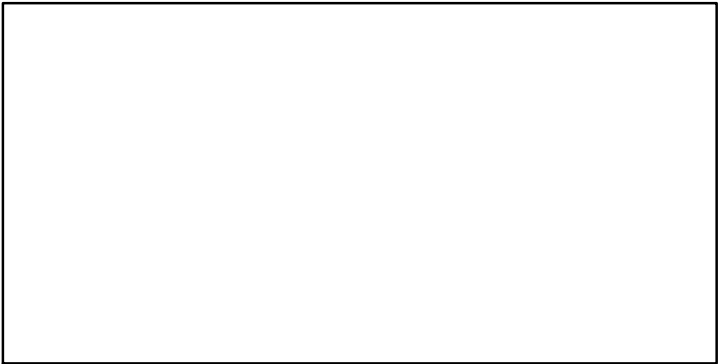


Tusk Northeast Atlantic [CUSKNEATL]

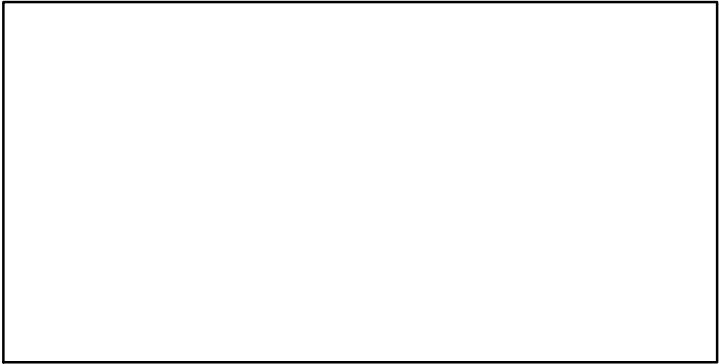
TC-MT, TL*, RecC* (1988–2014–ICESIMP2018)



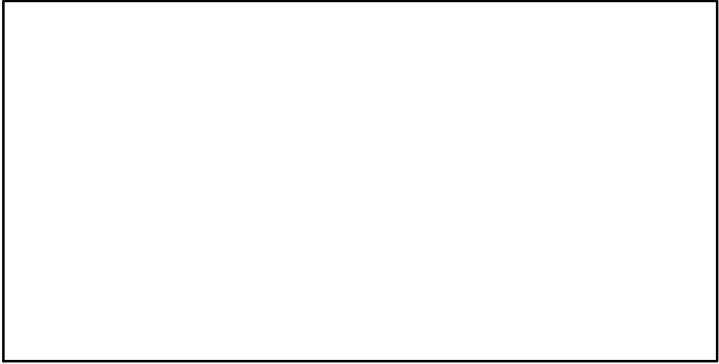
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Tusk Va and XIV [CUSKVa-XIV]

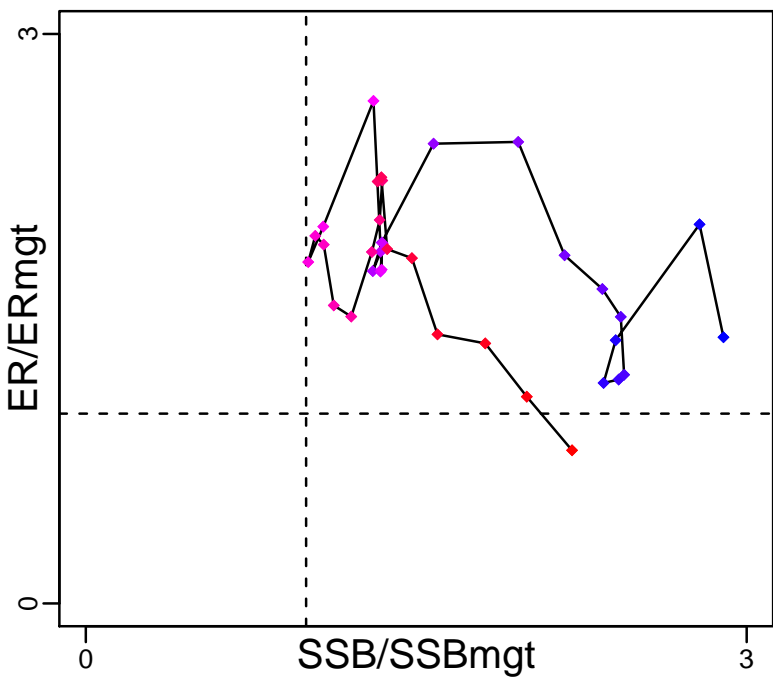
Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVa-XIV-1979-2018-ICESIMP2018
Area	Va and XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2017, 2018, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	6240
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	ERmgt-ratio	2017	0.13
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4460
Flim	-	-	-
ERlim	-	-	-

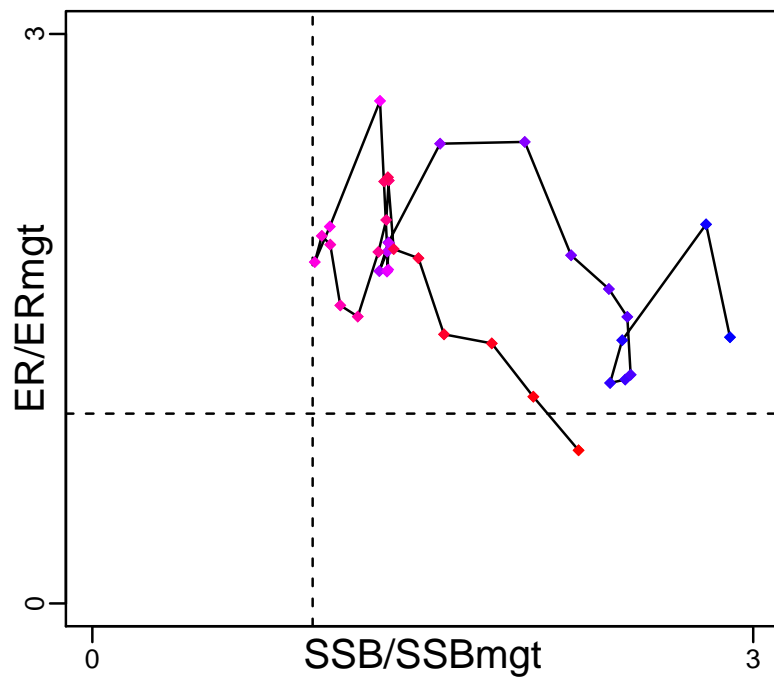
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	33,000	Both	-
SSB	SSB-MT	2018	14,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	13,800,000	-	3
F	F-1/yr	2018	0.088	-	-
ER	ER-calc-ratio	2018	0.077	-	-
TC	TC-MT	2017	3490		
TL	TL-MT	2018	2540		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.1		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.246		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.1		
ER/ERmgt	-	-	-		

Tusk Va and XIV [CUSKVa–XIV]

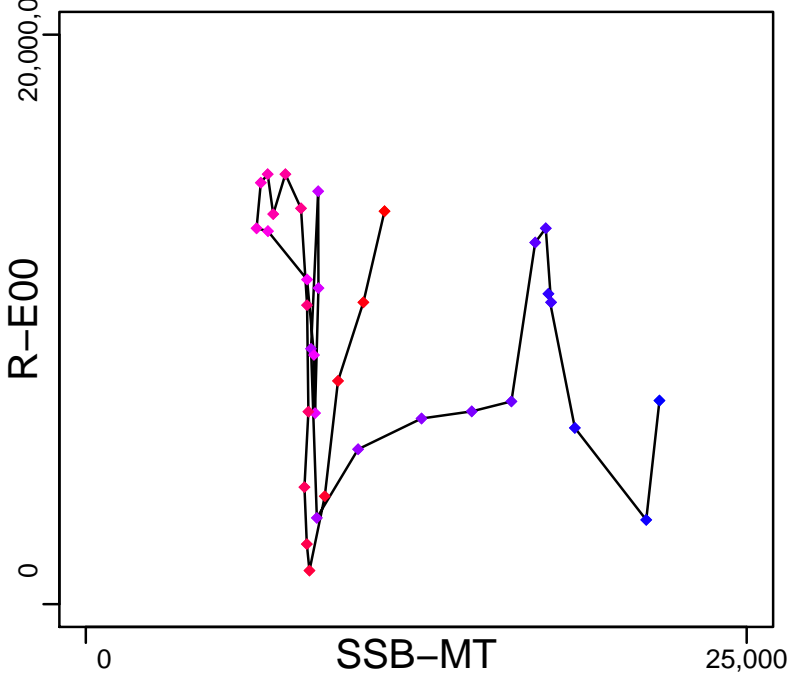
Kobe MSYpref (1979–2017–ICESIMP2018)



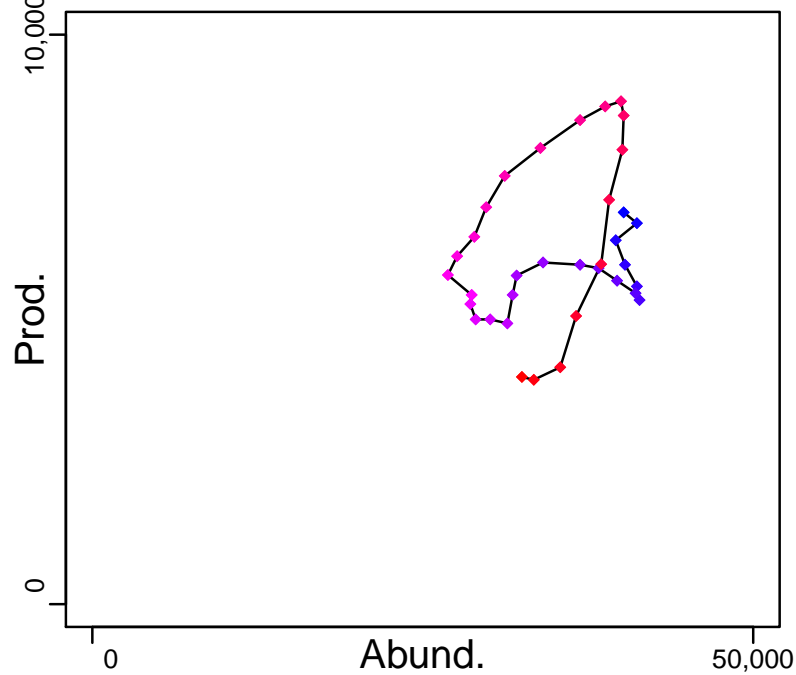
Kobe MGTpref (1979–2017–ICESIMP2018)



Spawner Recruit (1979–2018–ICESIMP2018)



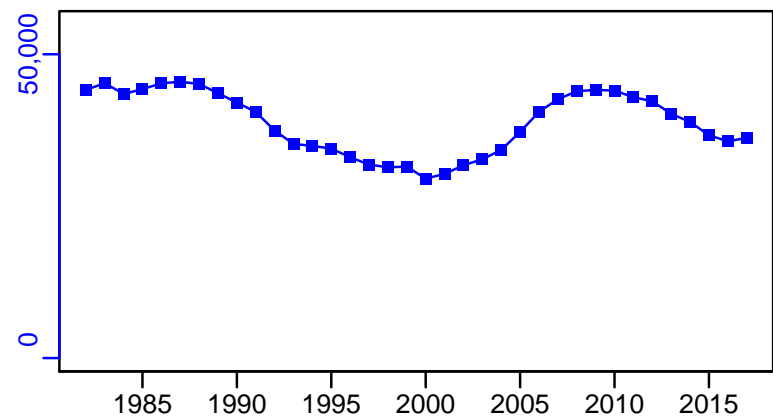
Production (1979–2018–ICESIMP2018)



◆ Start Year ◆ End Year * No Data

Tusk Va and XIV [CUSKVa–XIV]

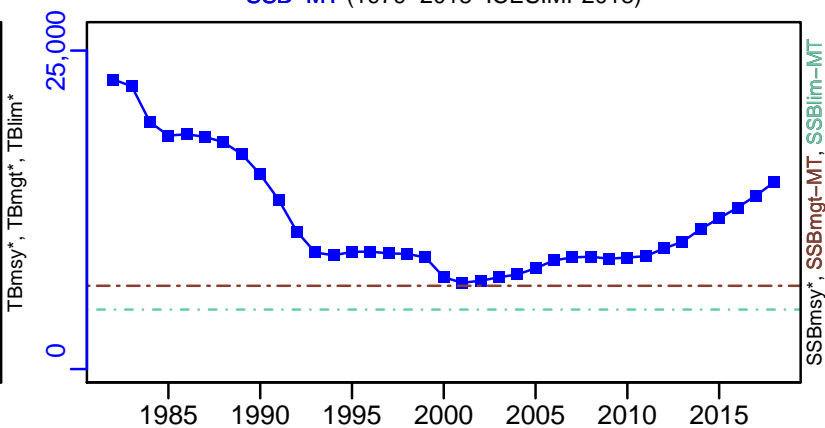
TB-MT (1979–2018–ICESIMP2018)



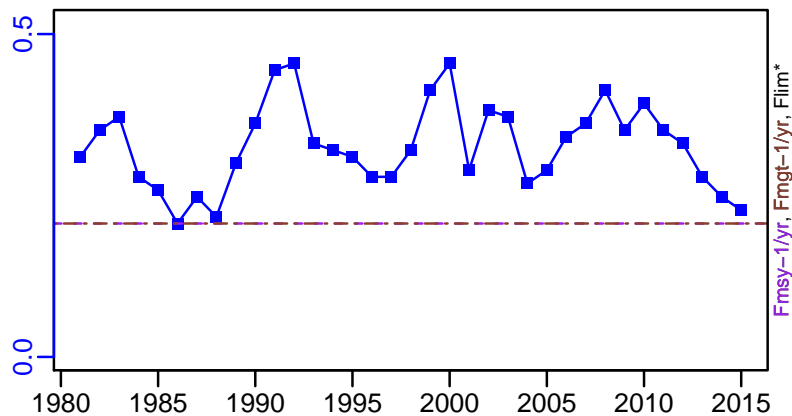
TN *



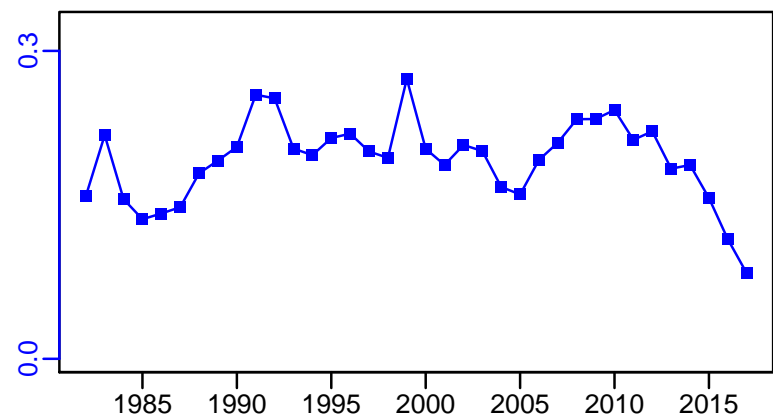
SSB-MT (1979–2018–ICESIMP2018)



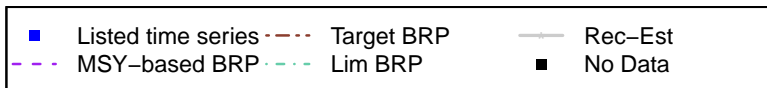
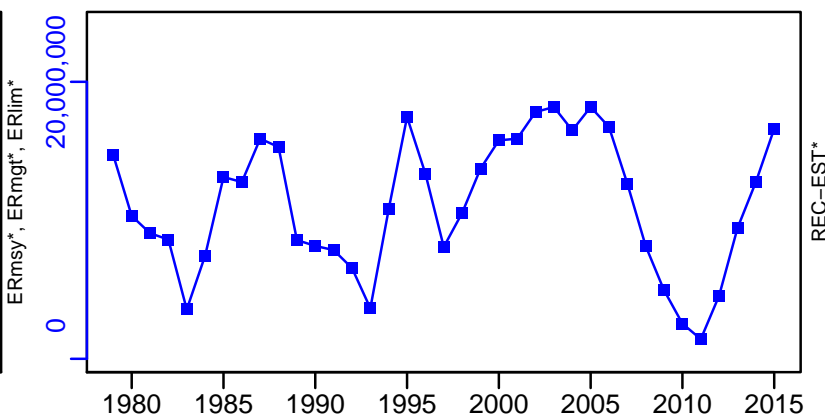
F-1/yr (1981–2016–ICESIMP2016)



ER-calc-ratio (1979–2018–ICESIMP2018)

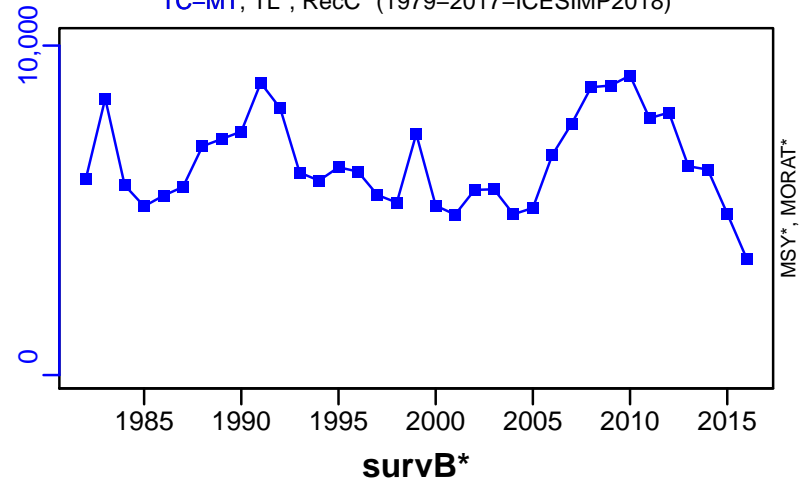


R-E00 (1979–2018–ICESIMP2018)

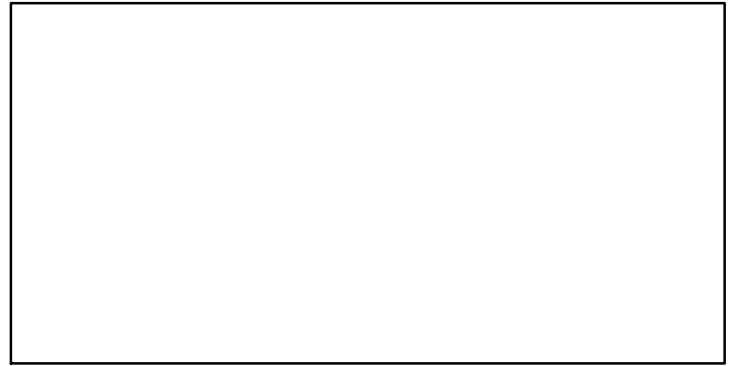


Tusk Va and XIV [CUSKV_a–XIV]

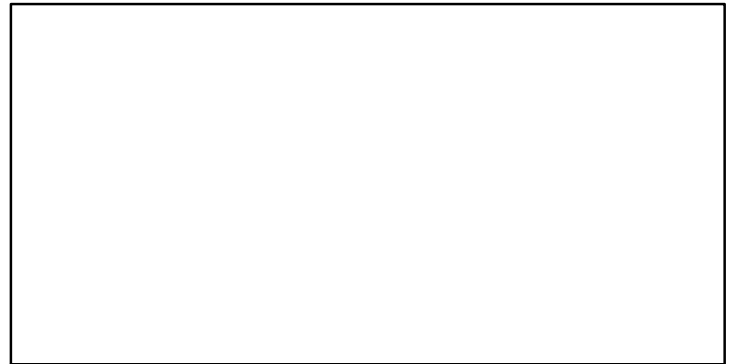
TC–MT, TL*, RecC* (1979–2017–ICESIMP2018)



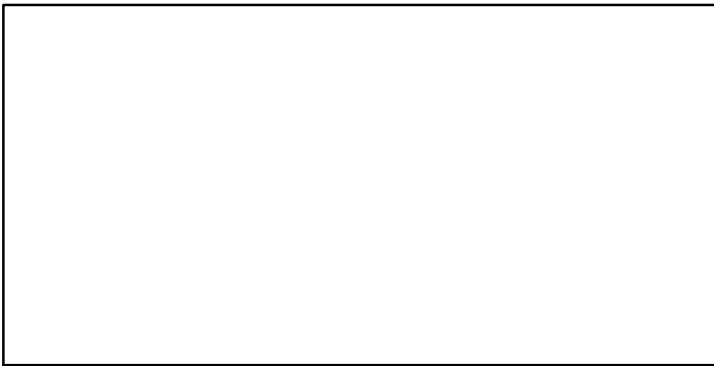
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

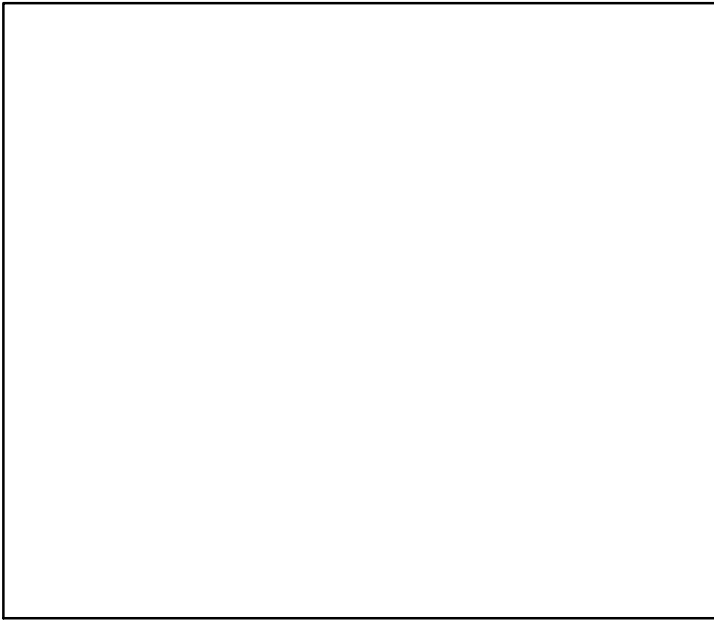
Tusk Rockall Bank [CUSKVlb]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVlb-1988-2017-ICESIMP2018
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

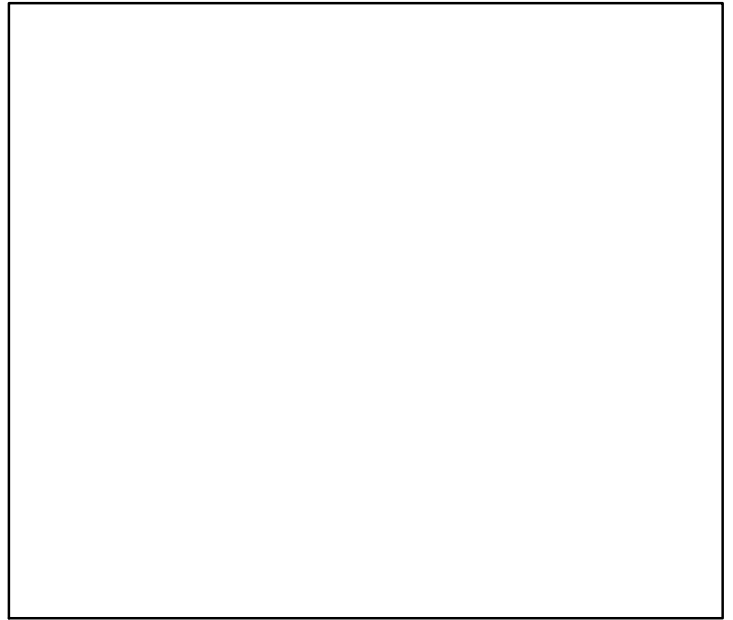
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	47		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

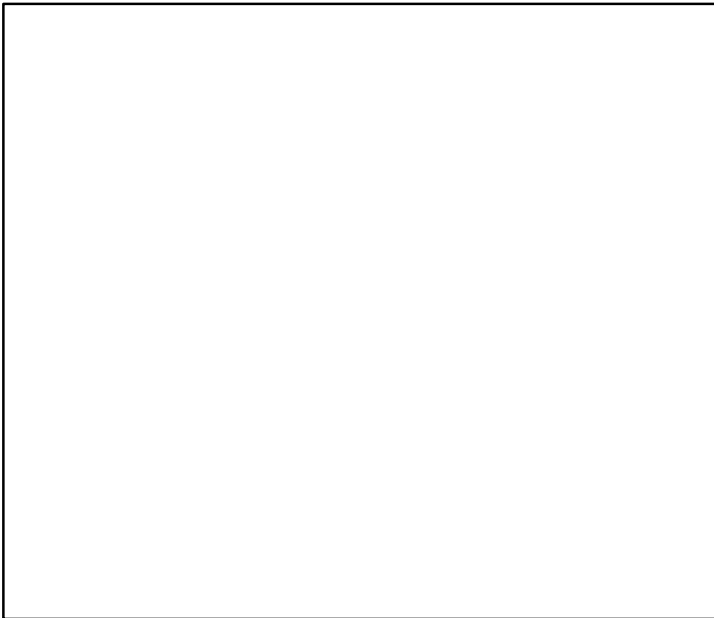
Kobe MSY*



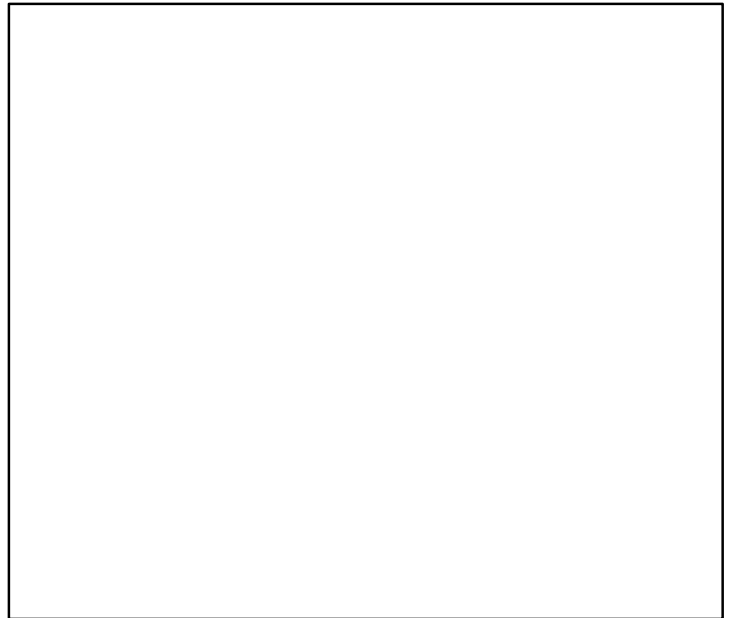
Kobe MGT*



Spawner Recruit*



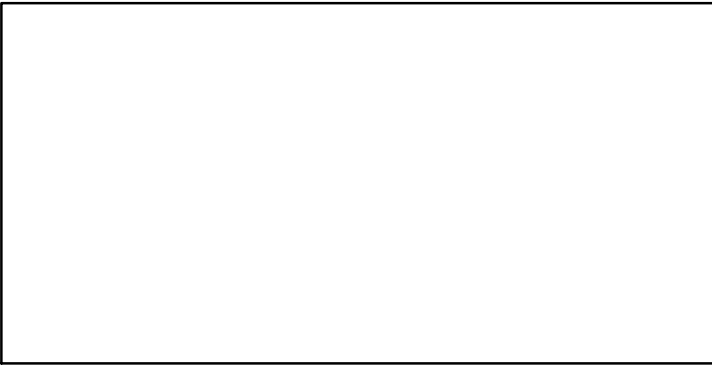
Production*



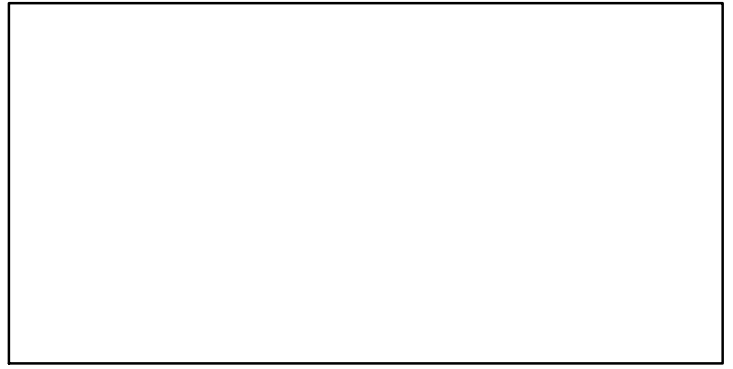
◆ Start Year ◆ End Year * No Data

Tusk Rockall Bank [CUSKVlb]

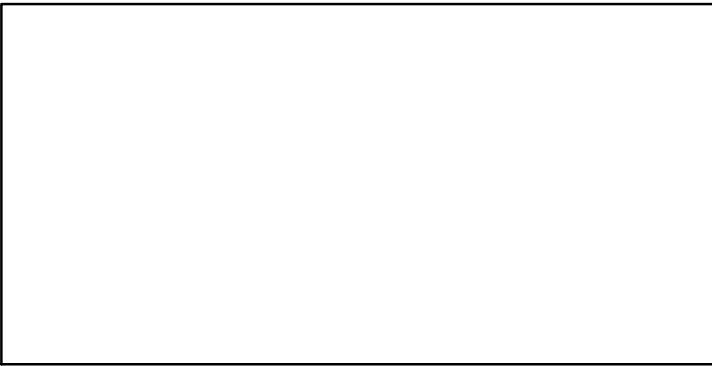
TB*



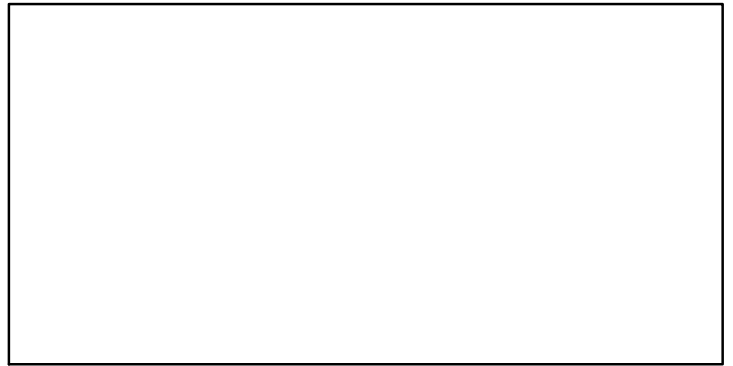
SSB*



TN *



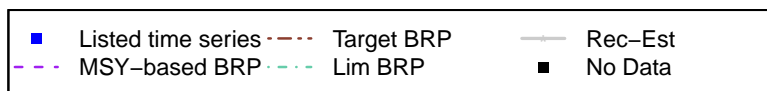
F*



ER*

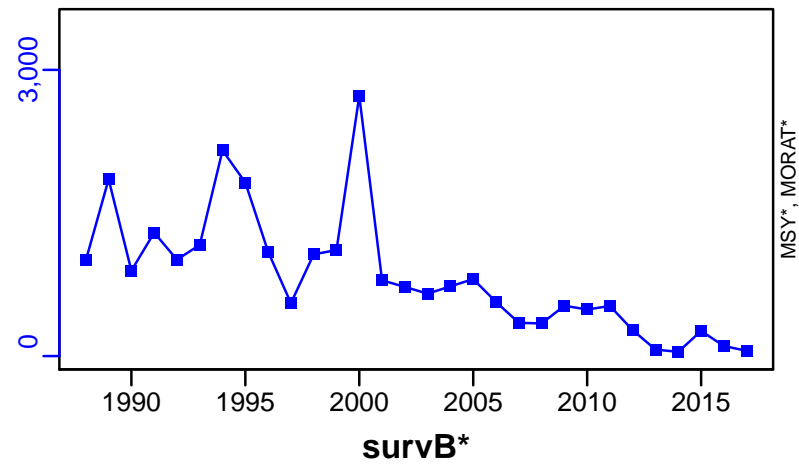


Recruits*

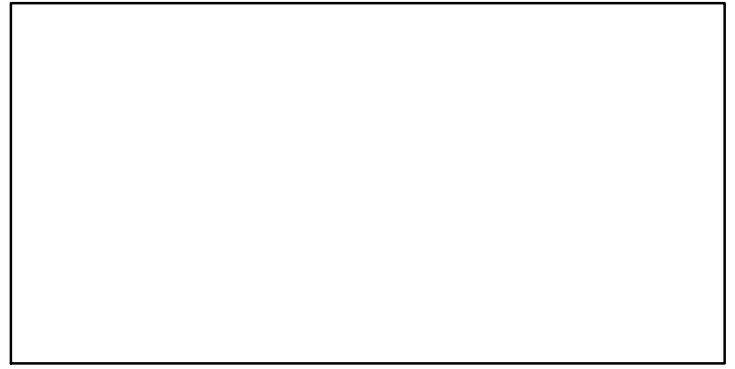


Tusk Rockall Bank [CUSKVlb]

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



TAC*, Cpair*, Cadv*



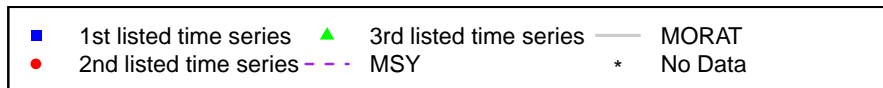
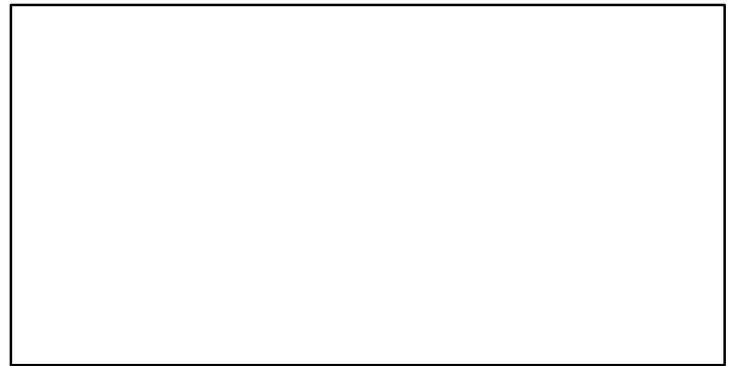
CPUE*



EFFORT*



CdivMSY*



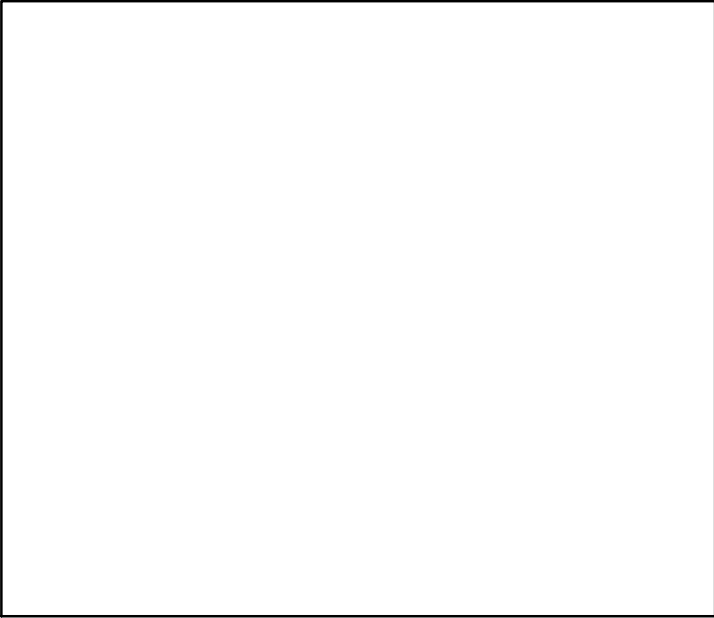
Tusk North of Azores [CUSKXII]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKXII-1988-2016-ICESIMP2018
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

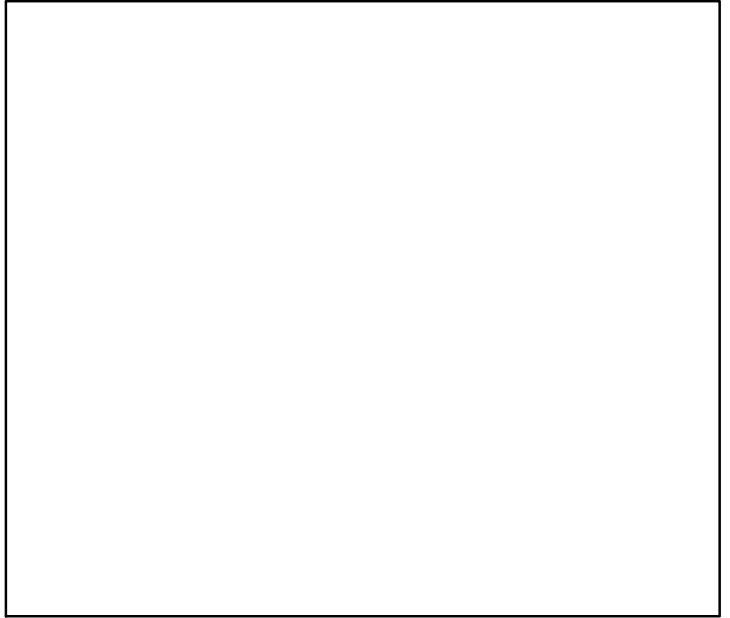
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

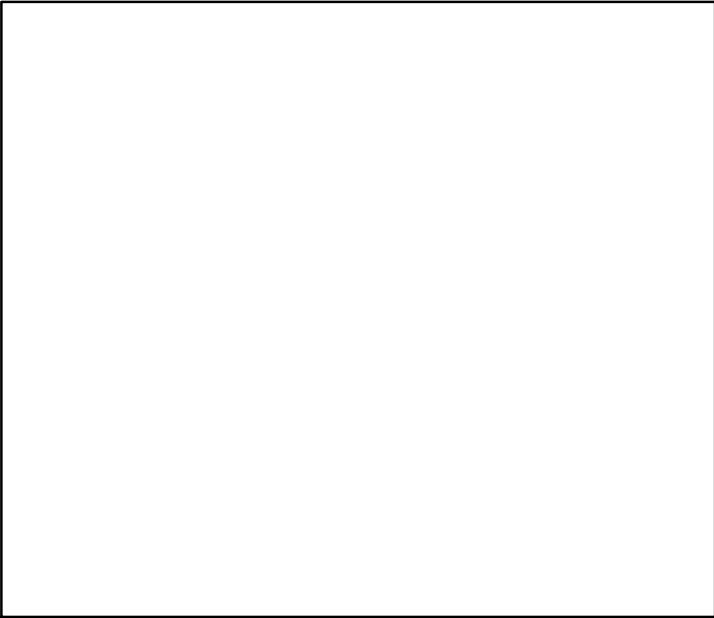
Kobe MSY*



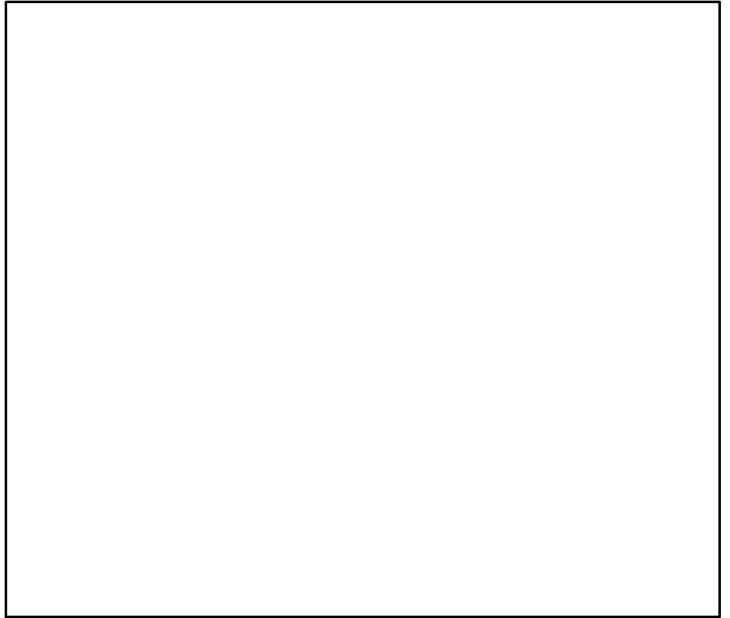
Kobe MGT*



Spawner Recruit*



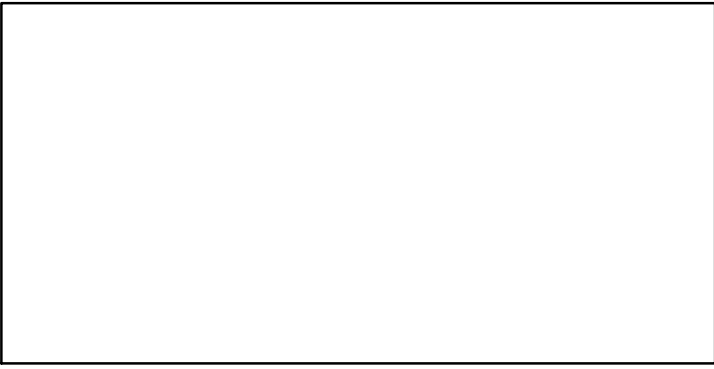
Production*



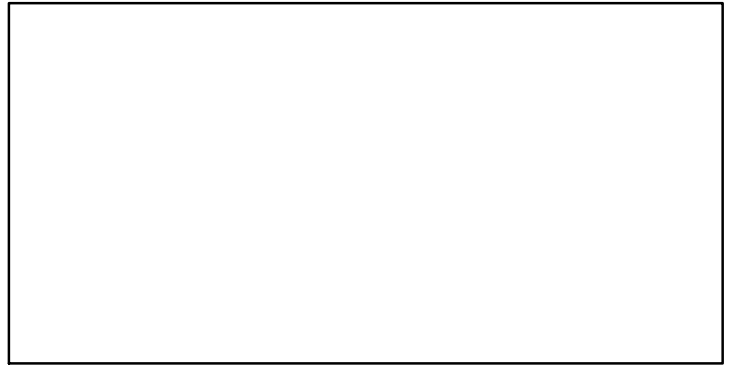
◆ Start Year ◆ End Year * No Data

Tusk North of Azores [CUSKXII]

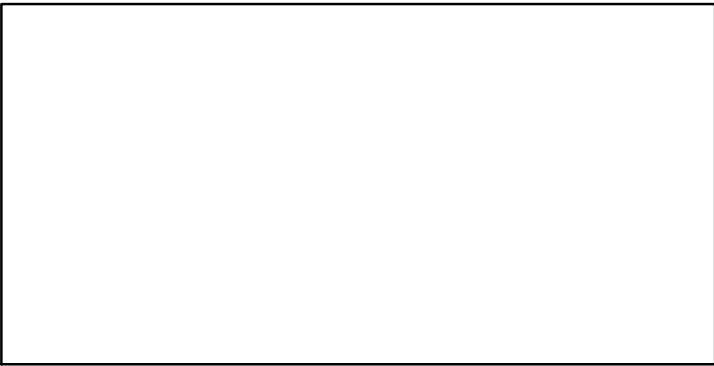
TB*



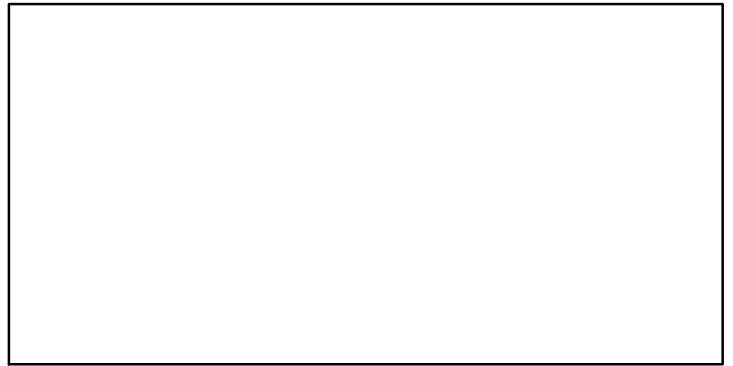
SSB*



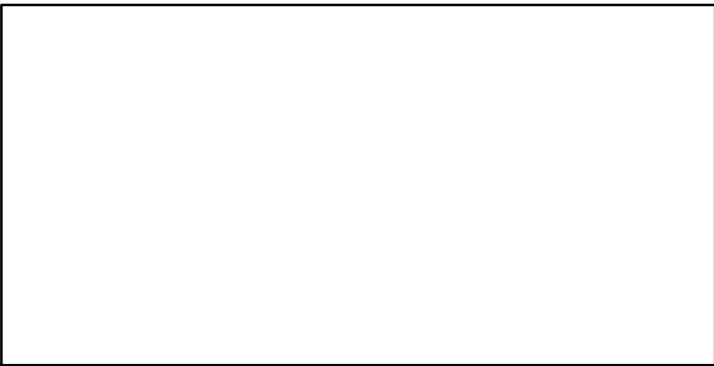
TN *



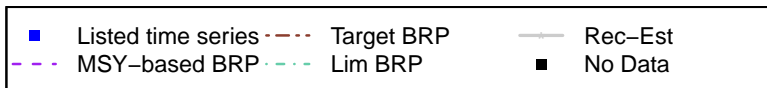
F*



ER*



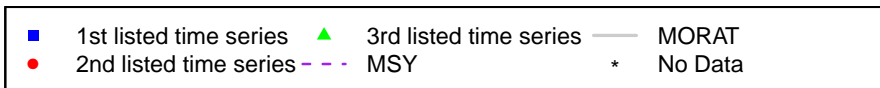
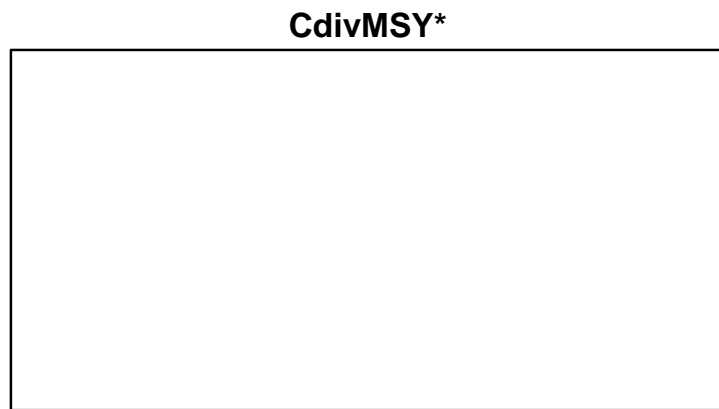
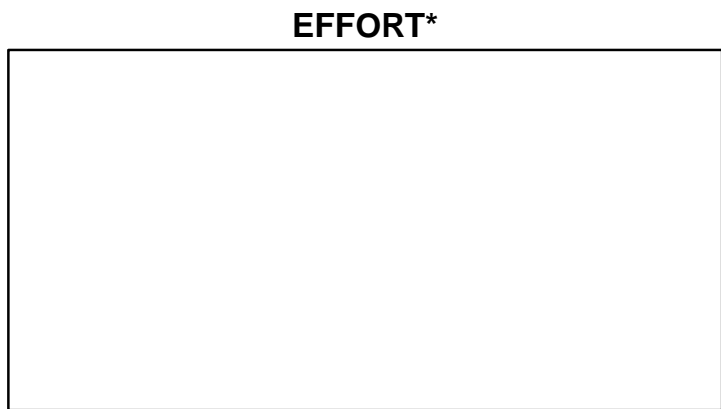
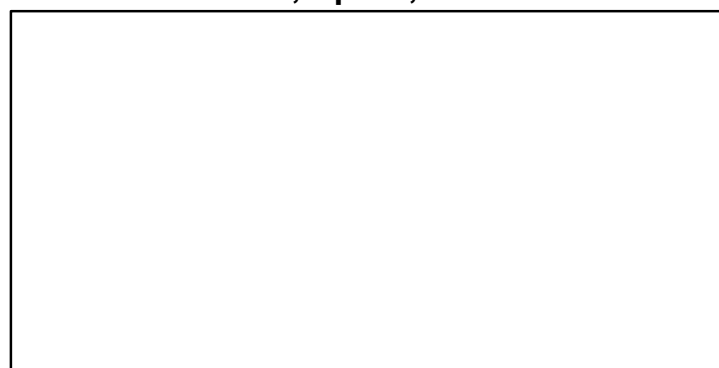
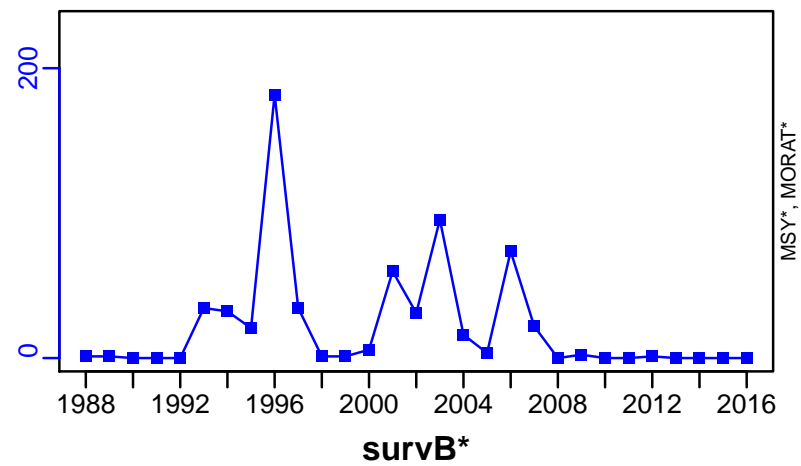
Recruits*



Tusk North of Azores [CUSKXII]

TL-MT, TC*, RecC* (1988–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



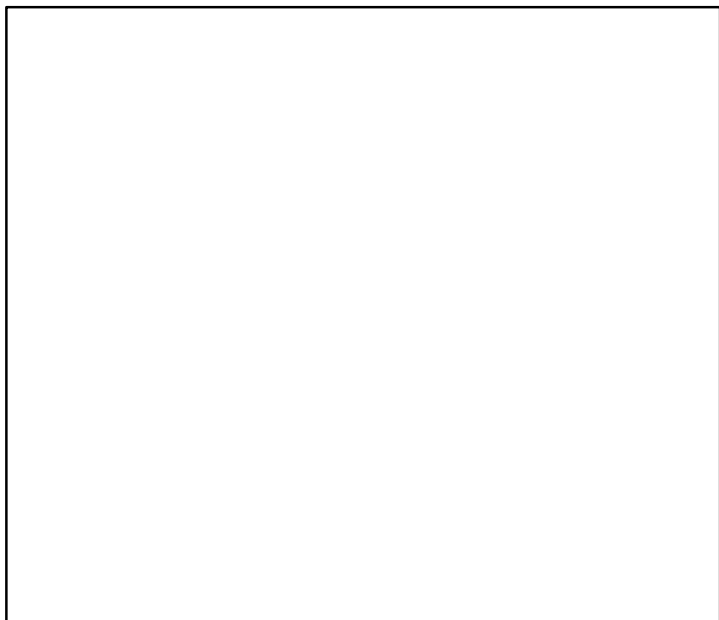
Dab Baltic Areas 22-32 [DAB2232]

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

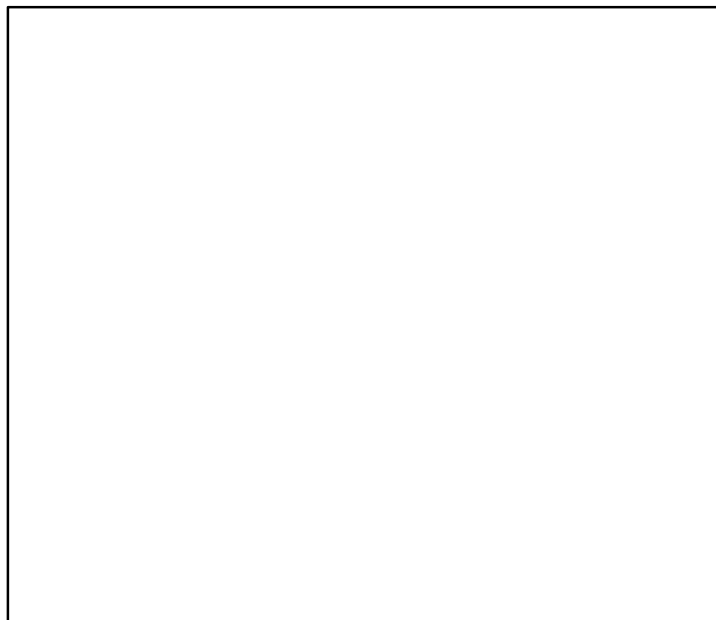
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

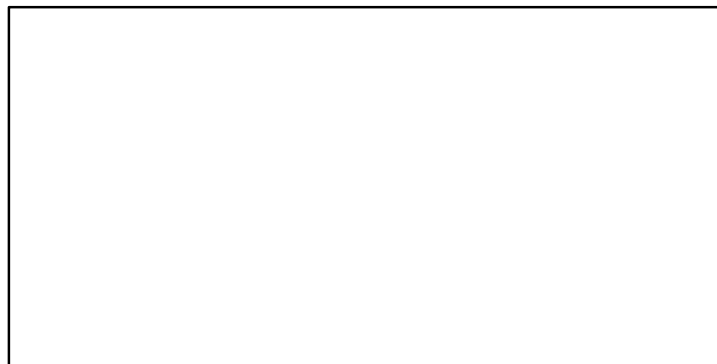


◆ Start Year ◆ End Year * No Data

TB*



SSB*



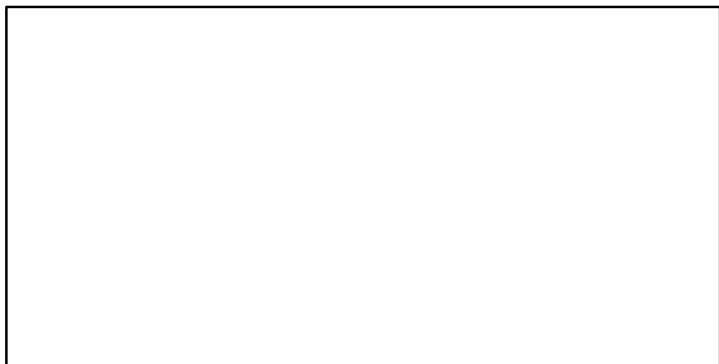
TN *



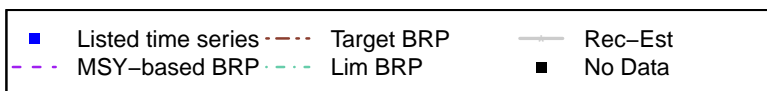
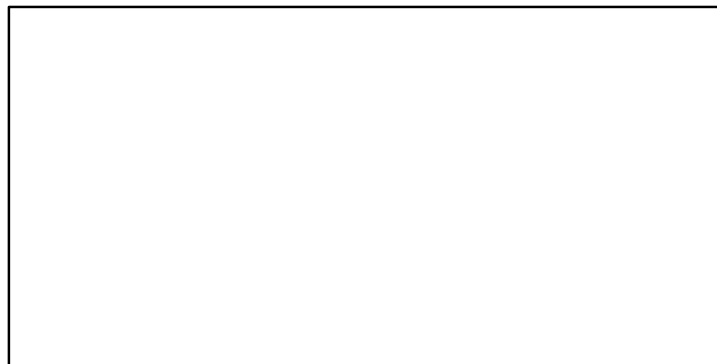
F*



ER*

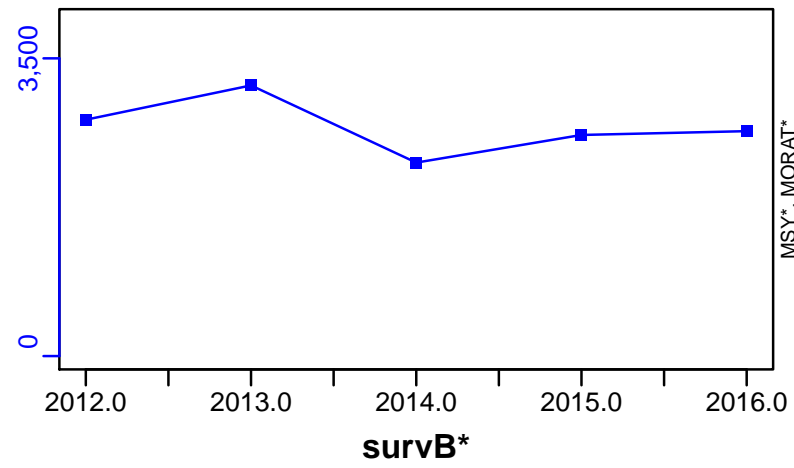


Recruits*

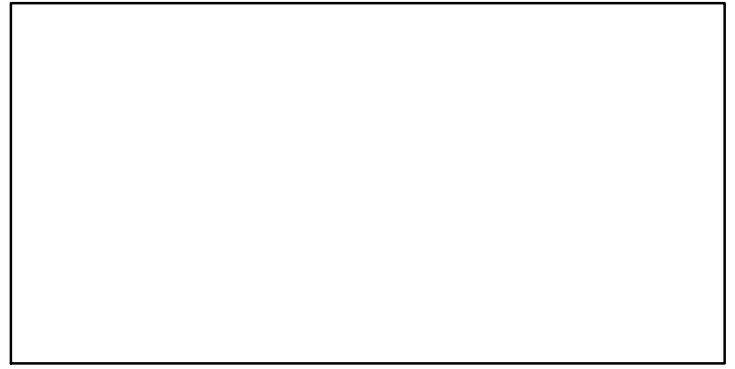


Dab Baltic Areas 22–32 [DAB2232]

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



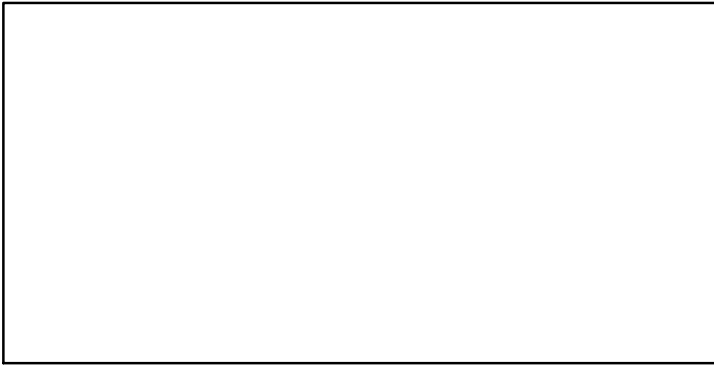
TAC*, Cpair*, Cadv*



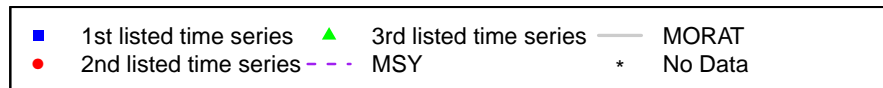
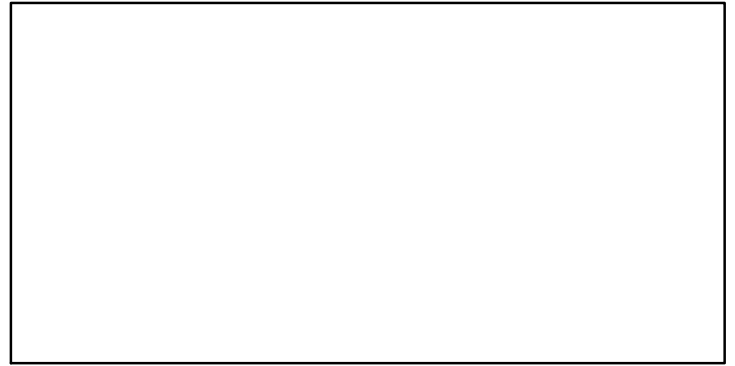
CPUE*



EFFORT*



CdivMSY*



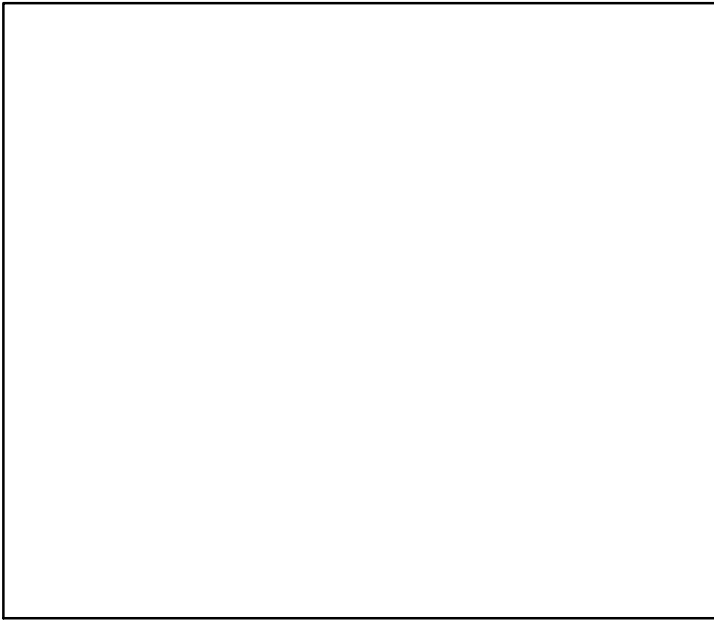
Dab IIIa and North Sea [DABIIIa-IV]

Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGNSSK-DABIIIa-IV-1965-2016-ICESIMP2018
Area	IIIa and 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	2015, 2016

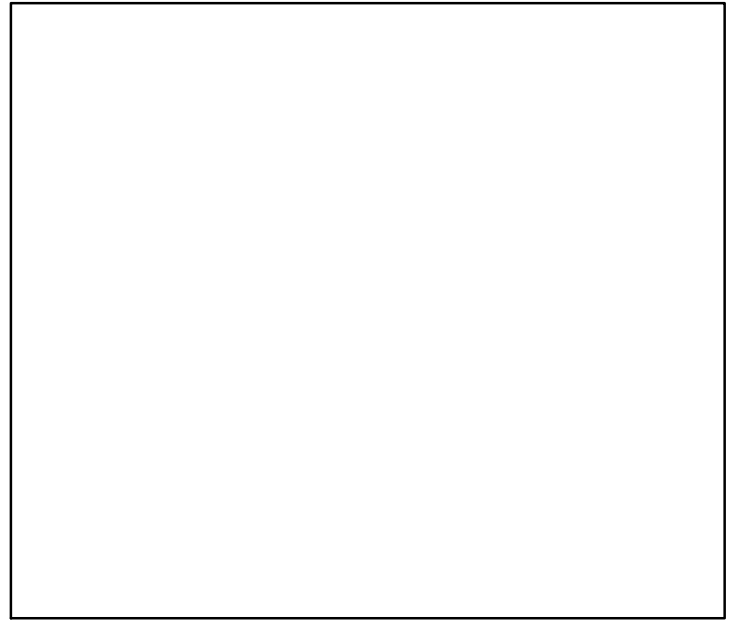
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	1.88	Both	-
SSB	SSB-relative	2016	1.97	Both	-
TN	-	-	-	-	-
R	R-relative	2016	1.09	-	-
F	F-relative	2016	0.766	-	-
ER	ER-calc-ratio	2016	26,536	-	-
TC	TC-MT	2016	49,900		
TL	TL-MT	2016	5090		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

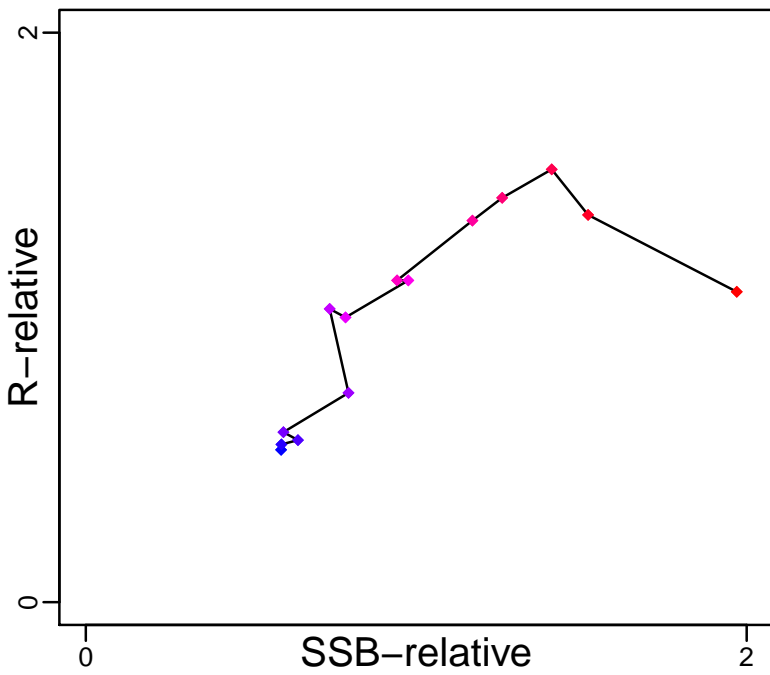
Kobe MSY*



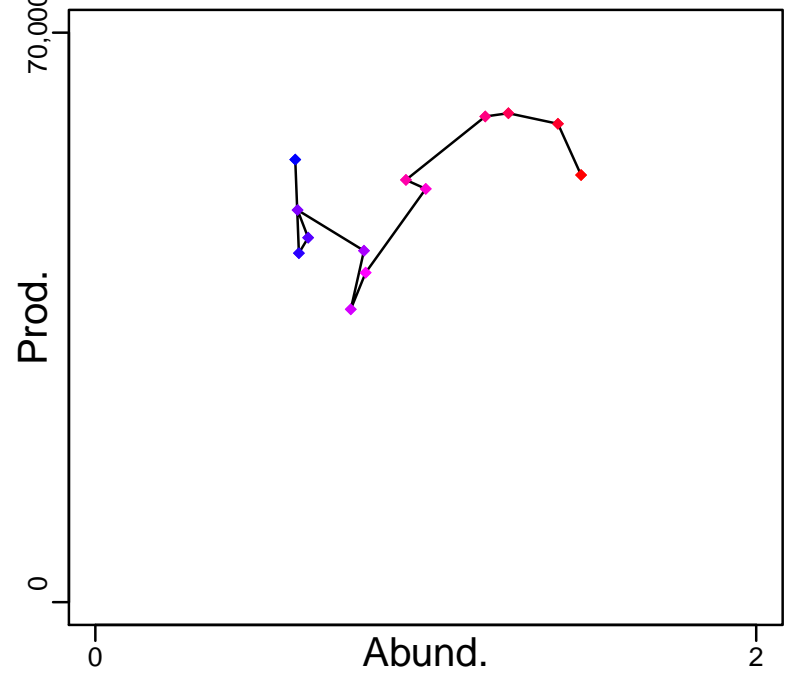
Kobe MGT*



Spawner Recruit (1965–2016–ICESIMP2018)



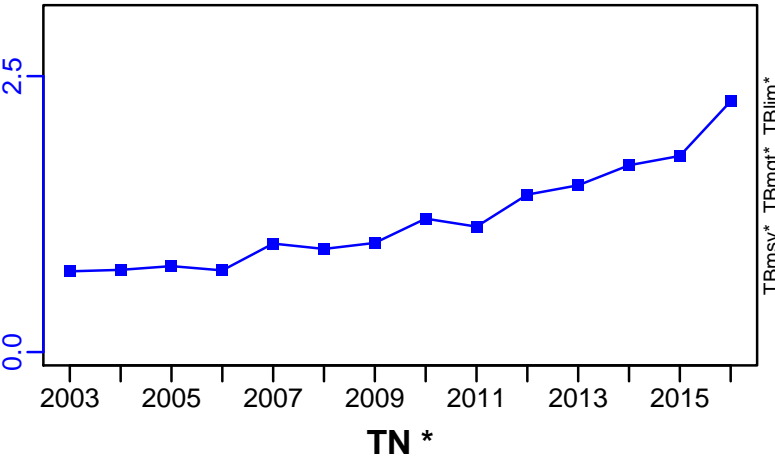
Production (1965–2016–ICESIMP2018)



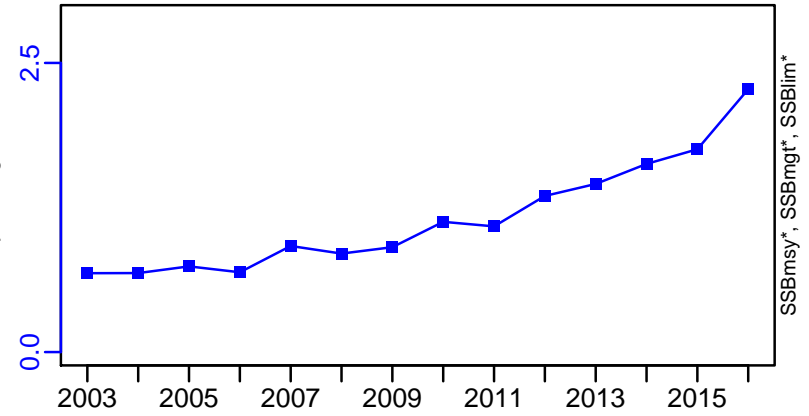
◆ Start Year ◆ End Year * No Data

Dab IIIa and North Sea [DABIIIa-IV]

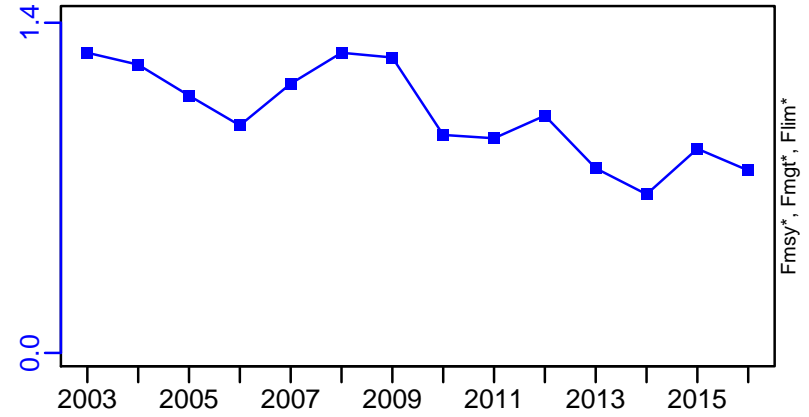
TB-MT (1965–2016–ICESIMP2018)



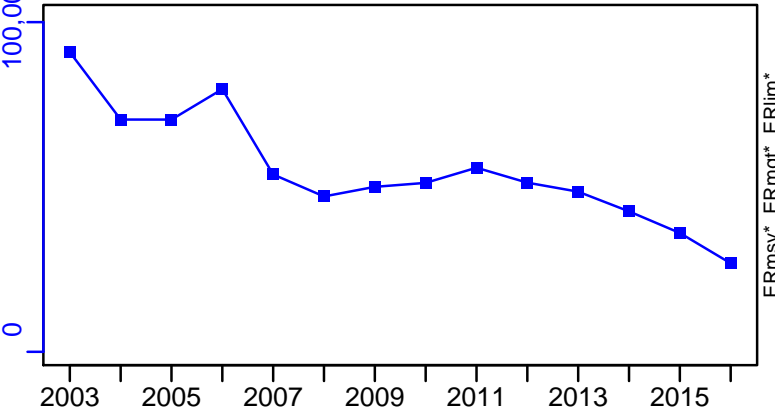
SSB-relative (1965–2016–ICESIMP2018)



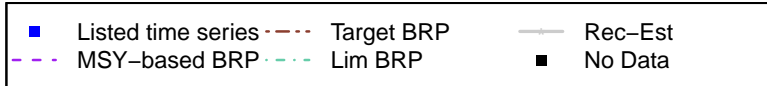
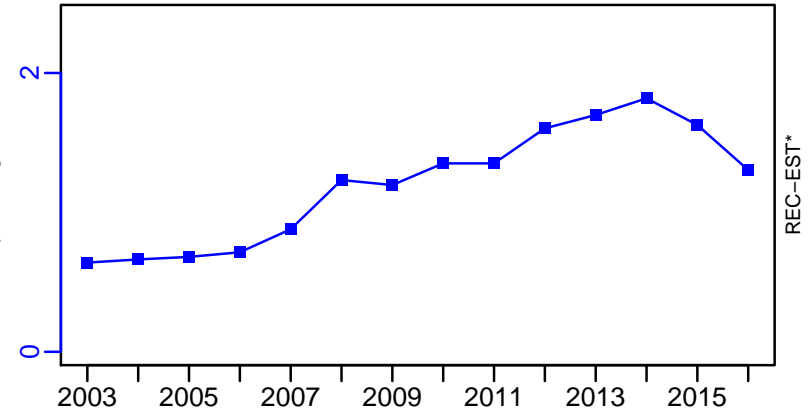
F-relative (1965–2016–ICESIMP2018)



ER-calc-ratio (1965–2016–ICESIMP2018)

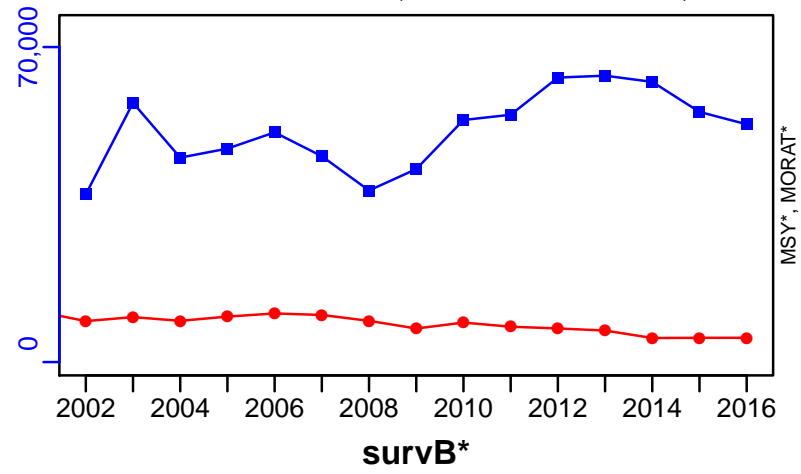


R-relative (1965–2016–ICESIMP2018)

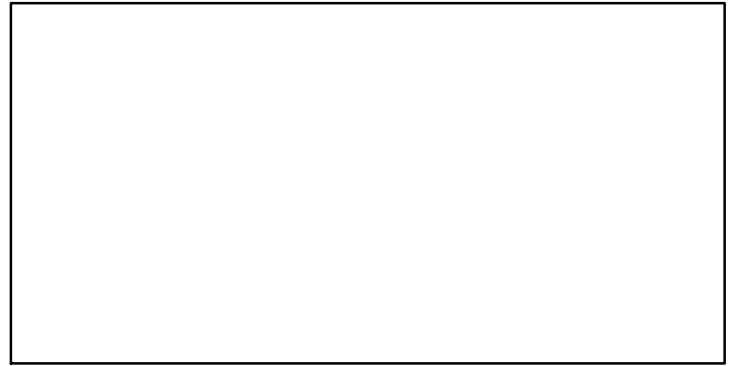


Dab IIIa and North Sea [DABIIIa-IV]

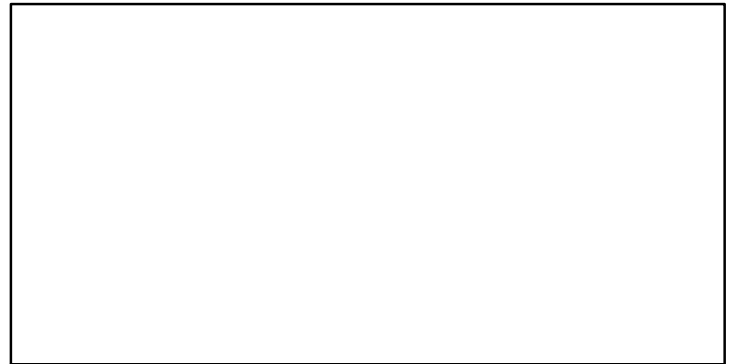
TC-MT, TL-MT, RecC* (1965–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

European seabass IVbc and VII [EBASSIVbc-VII]

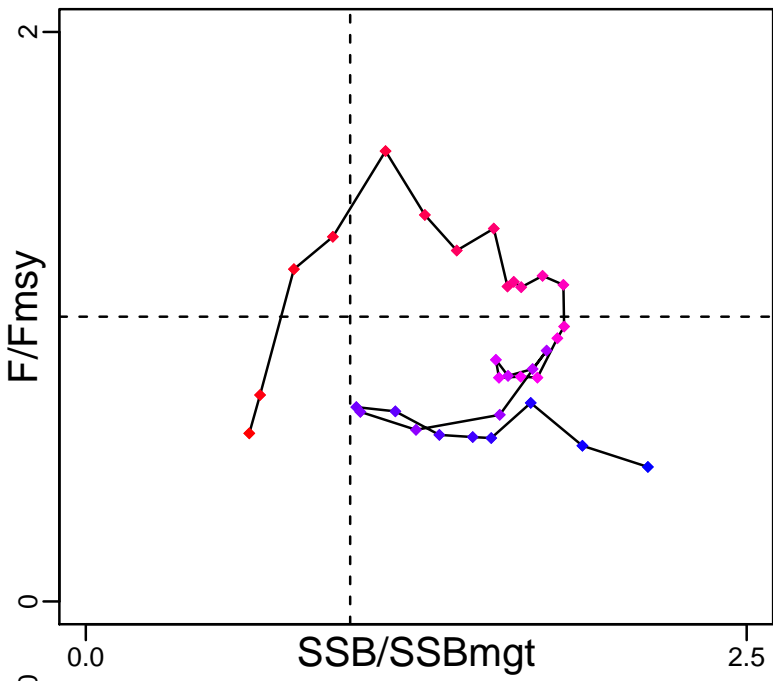
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSIVbc-VII-1985-2018-ICESIMP2018
Area	IVbc and VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.203
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	13,465
Fmgt	Fmgt-1/yr	2018	0.203
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	9618
Flim	Flim-1/yr	2018	0.295
ERlim	-	-	-

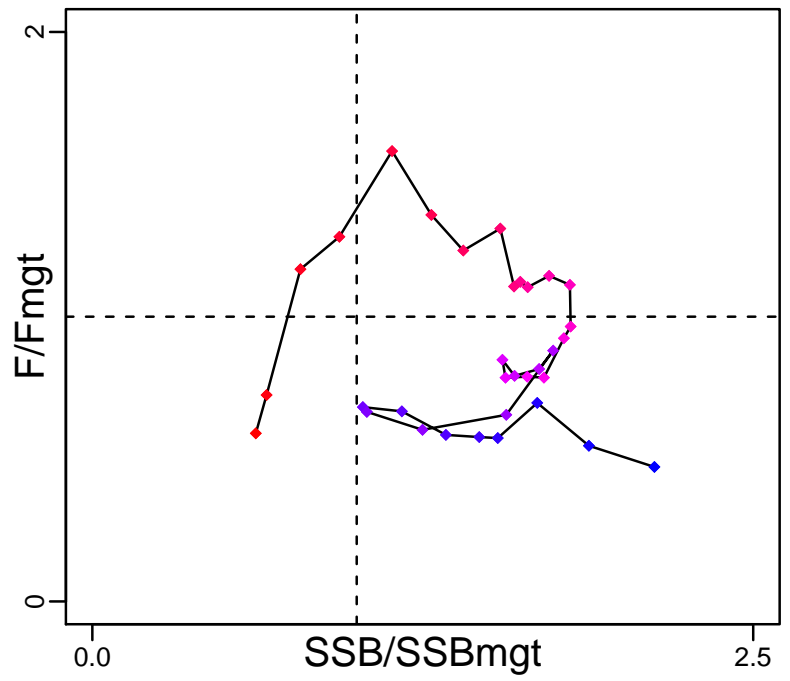
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	10,800	Both	-
SSB	SSB-MT	2018	8510	Both	-
TN	-	-	-	-	-
R	R-E00	2018	16,400,000	-	0
F	F-1/yr	2018	0.12	-	4 to 15
ER	ER-calc-ratio	2017	0.105	-	-
TC	TC-MT	2018	1150		
TL	TL-MT	2017	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.59		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.632		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.59		
ER/ERmgt	-	-	-		

European seabass IVbc and VII [EBASSIVbc-VII]

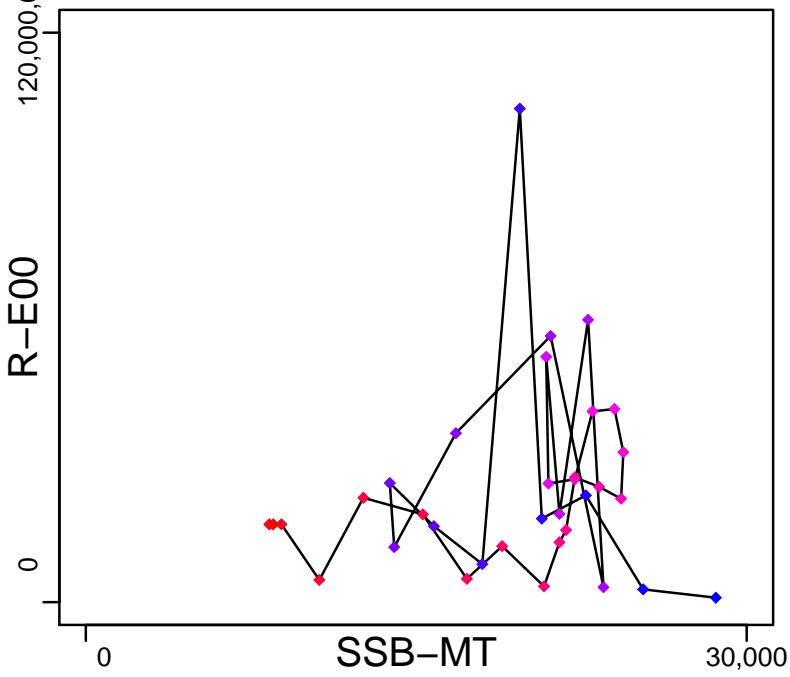
Kobe MSYpref (1985–2018–ICESIMP2018)



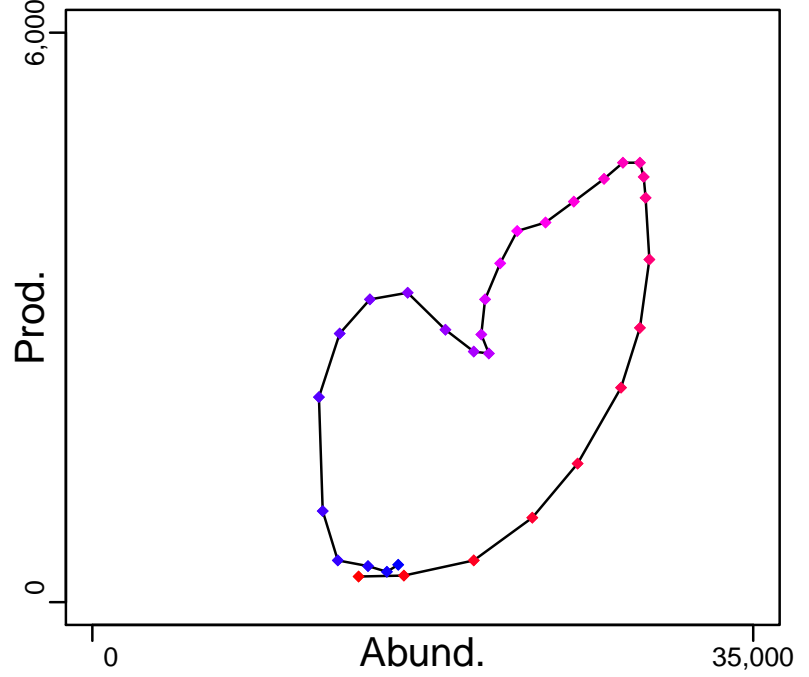
Kobe MGTpref (1985–2018–ICESIMP2018)



Spawner Recruit (1985–2018–ICESIMP2018)



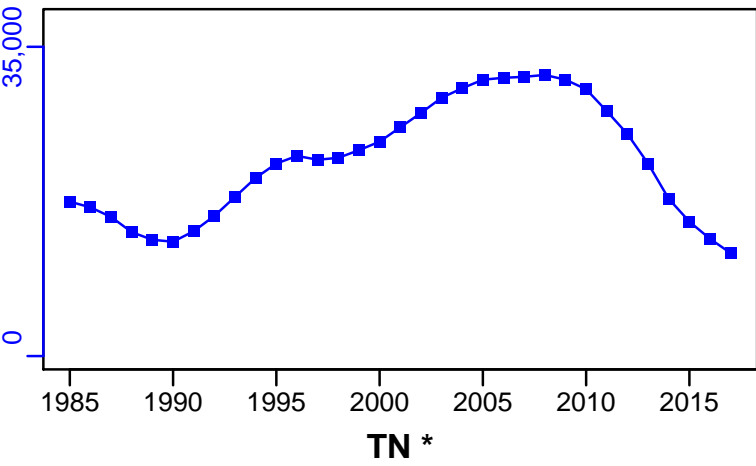
Production (1985–2017–ICESIMP2018)



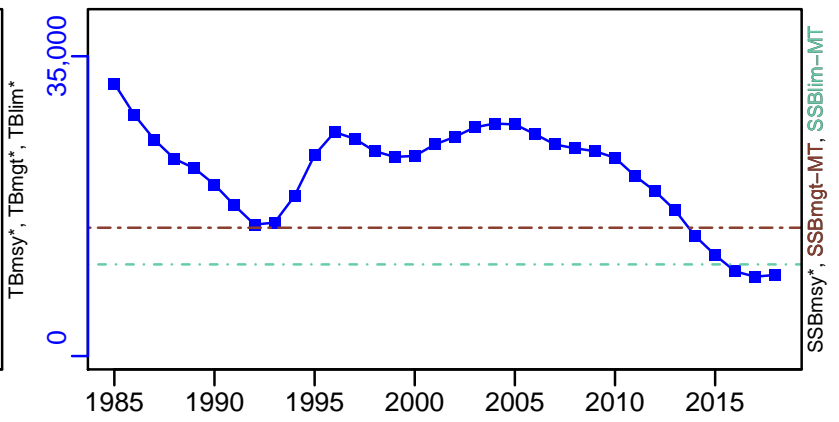
◆ Start Year ◆ End Year * No Data

European seabass IVbc and VII [EBASSIVbc-VII]

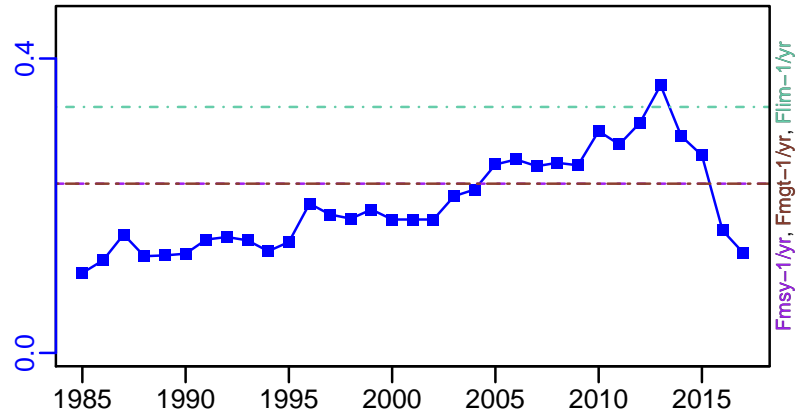
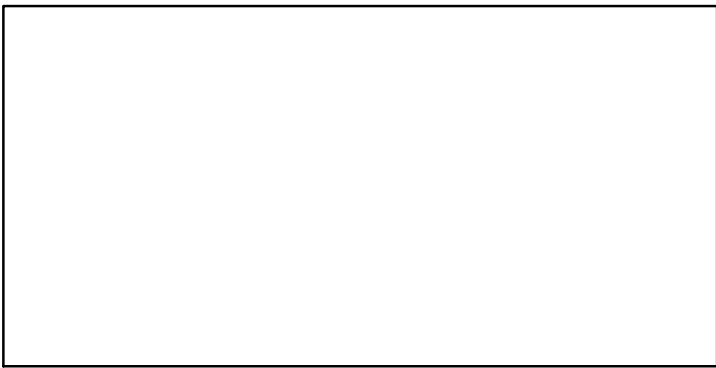
TB-MT (1985–2017–ICESIMP2018)



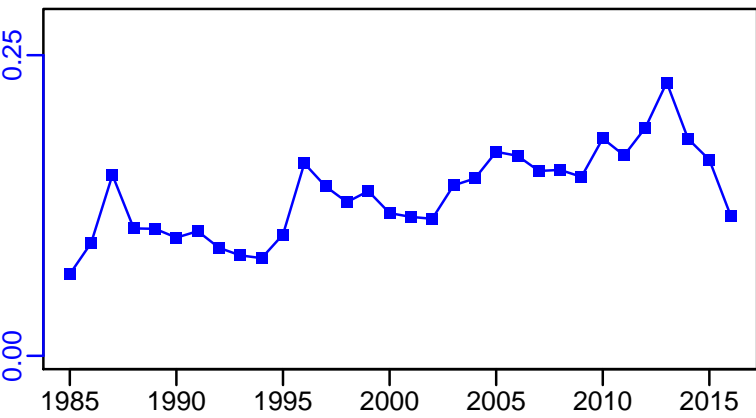
SSB-MT (1985–2018–ICESIMP2018)



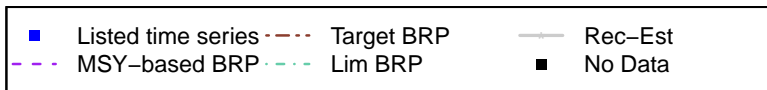
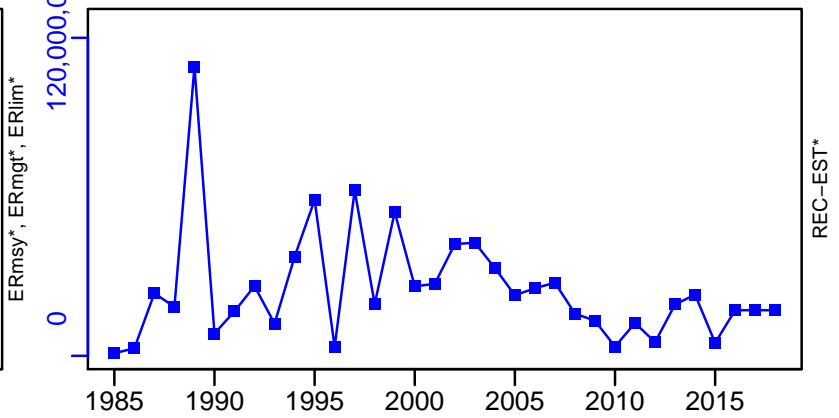
F-1/yr (1985–2018–ICESIMP2018)



ER-calc-ratio (1985–2017–ICESIMP2018)

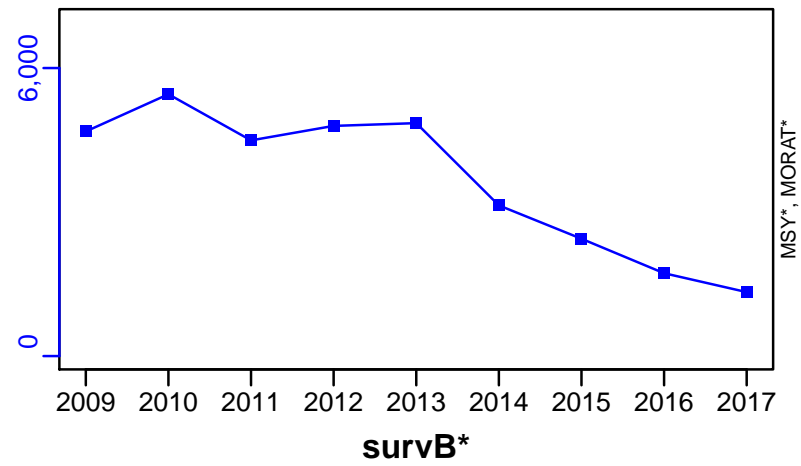


R-E00 (1985–2018–ICESIMP2018)

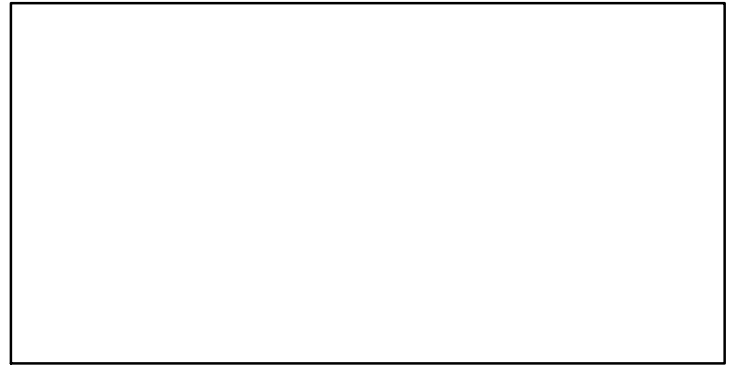


European seabass IVbc and VII [EBASSIVbc-VII]

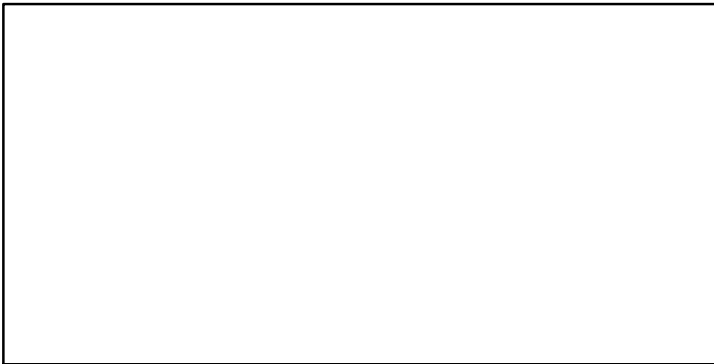
TC-MT, TL*, RecC* (1985–2018–ICESIMP2018)



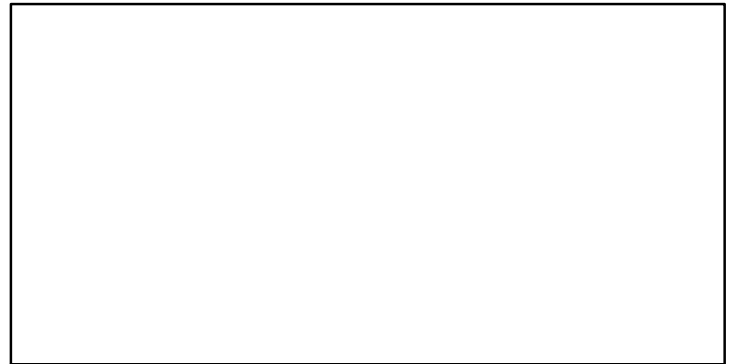
TAC*, Cpair*, Cadv*



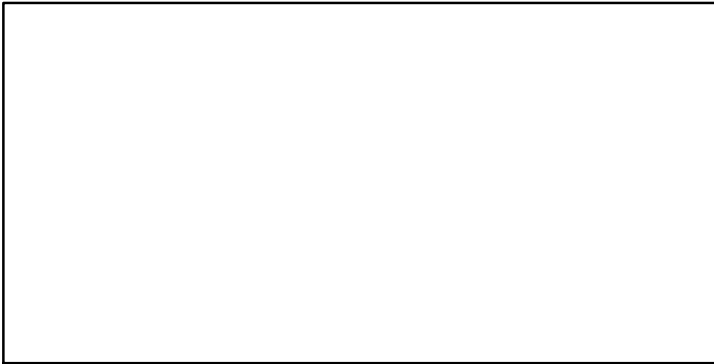
survB*



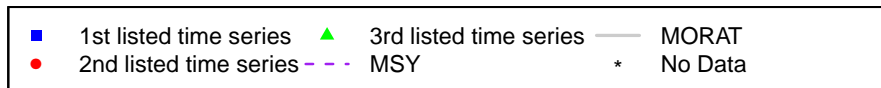
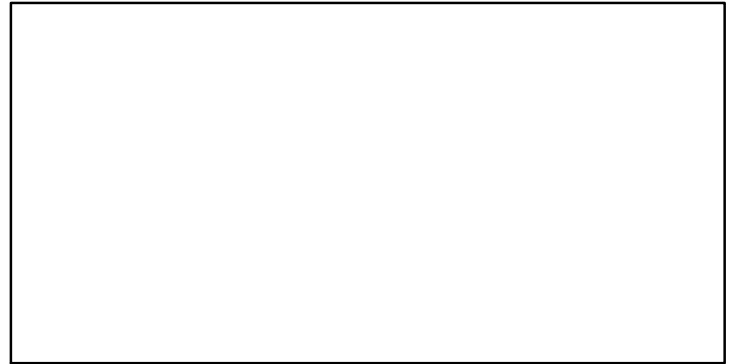
CPUE*



EFFORT*



CdivMSY*



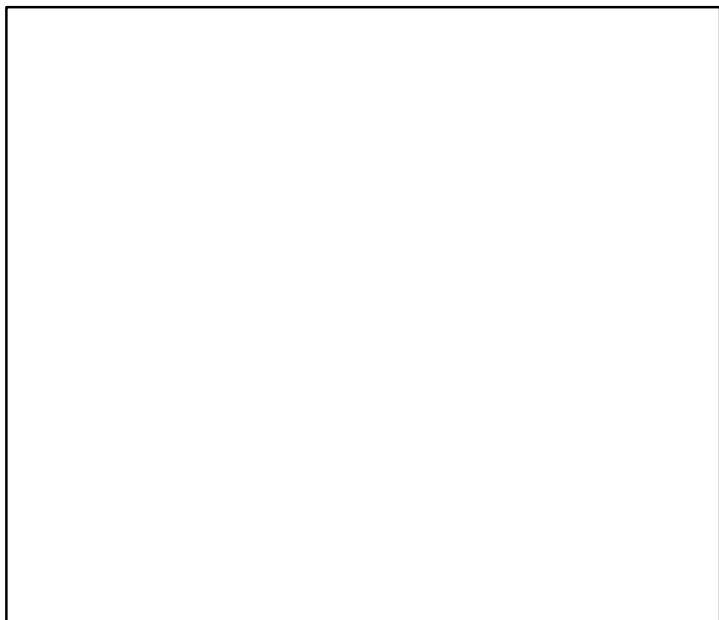
European seabass VIa and VIIb-j [EBASSVIa-VIIb-j]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSVIa-VIIb-j-2000-2016-ICESIMP2018
Area	VIa and VIIb-j
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016

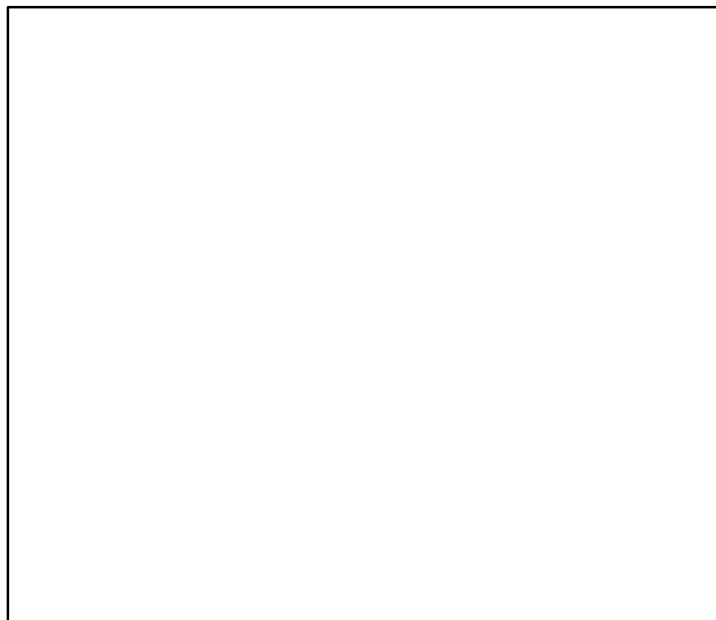
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	2		
TL	TL-MT	2016	0.1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European seabass VIa and VIIb-j [EBASSVIa-VIIb-j]

TB*



SSB*



TN *



F*



ER*



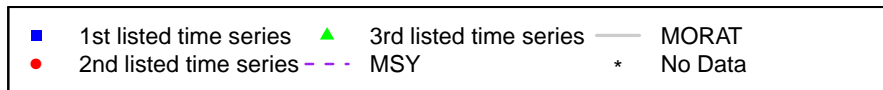
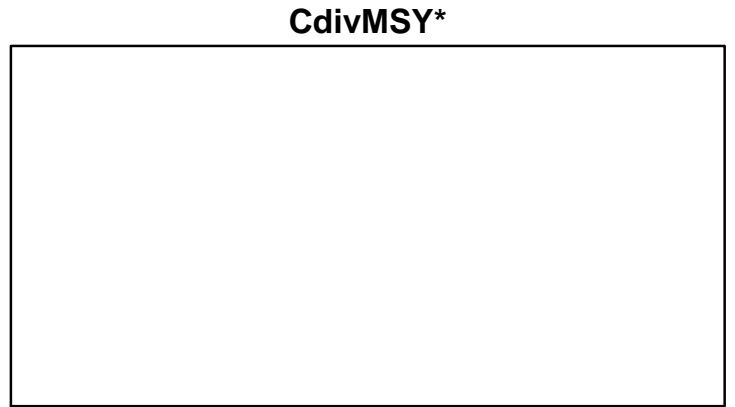
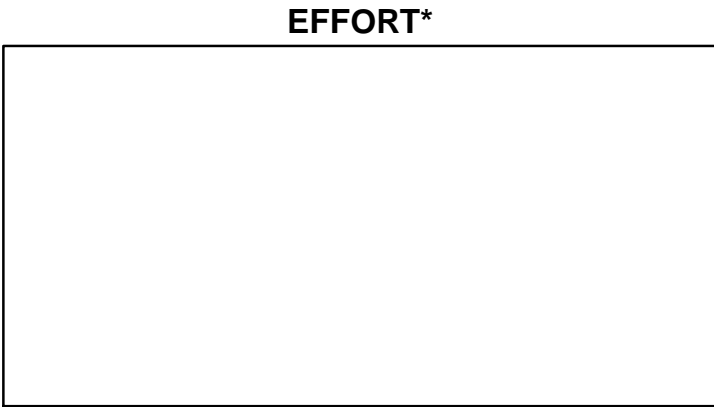
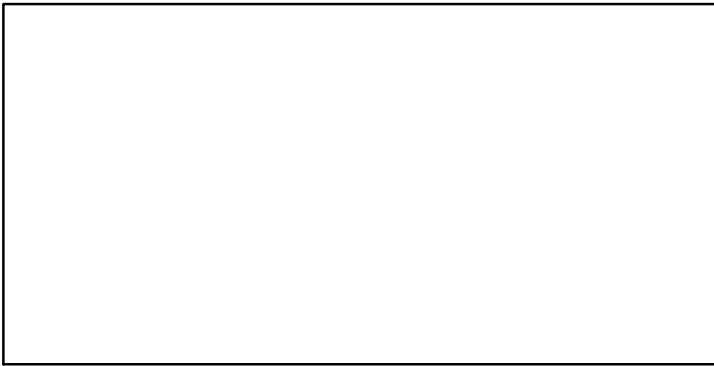
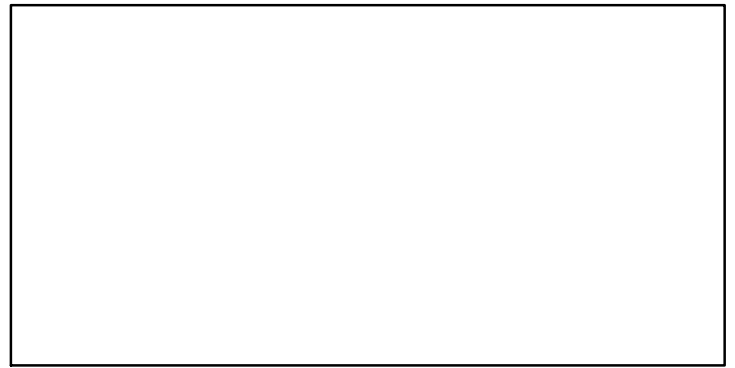
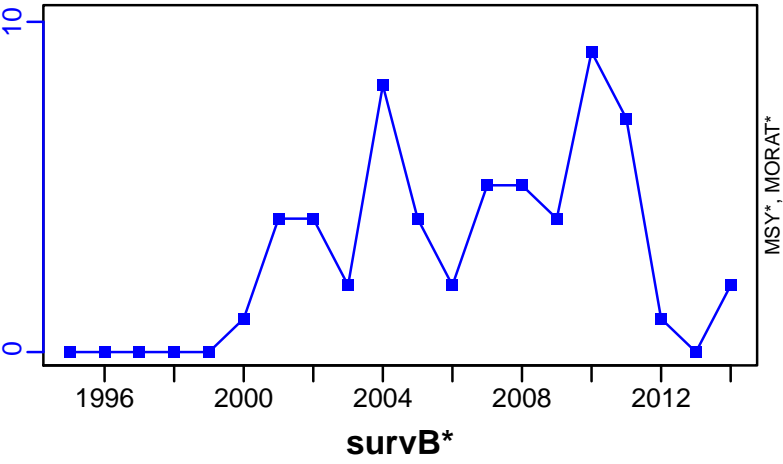
Recruits*



European seabass Vla and VIIb-j [EBASSVla-VIIb-j]

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

TAC*, Cpair*, Cadv*



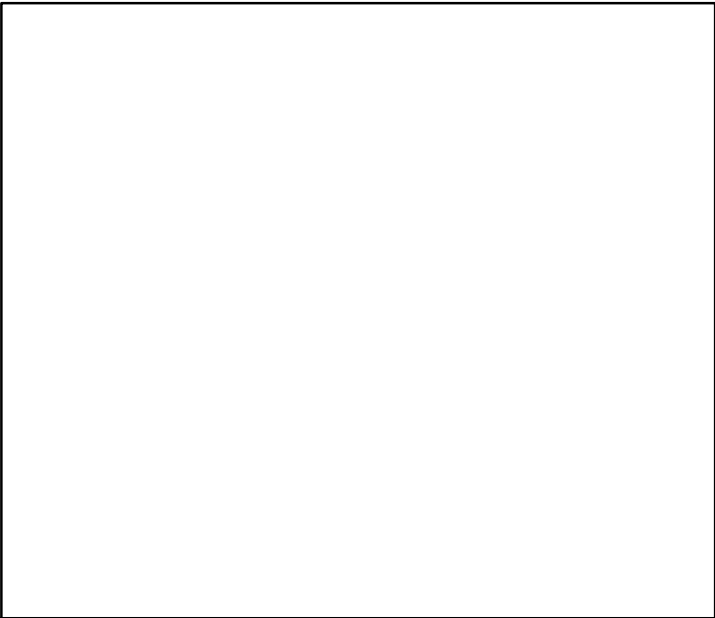
European seabass Villab [EBASSVillab]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVillab-2000-2016-ICESIMP2018
Area	Villab
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, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	1.61	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.957	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2250		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

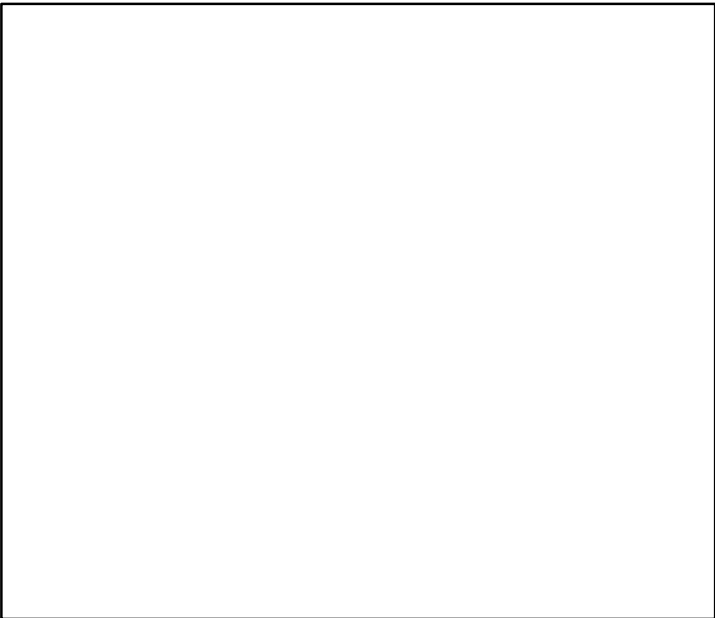
Kobe MSY*



Kobe MGT*



Spawner Recruit*



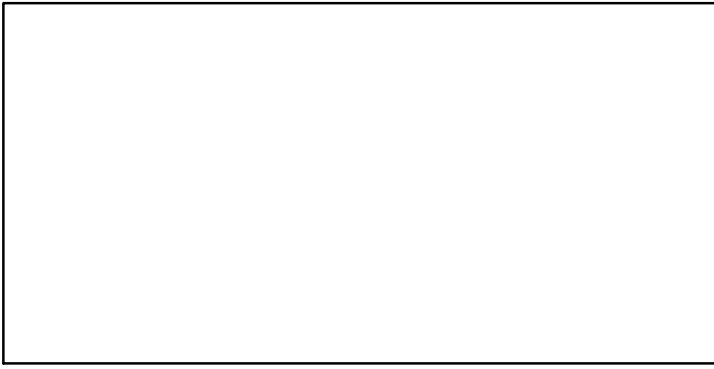
Production*



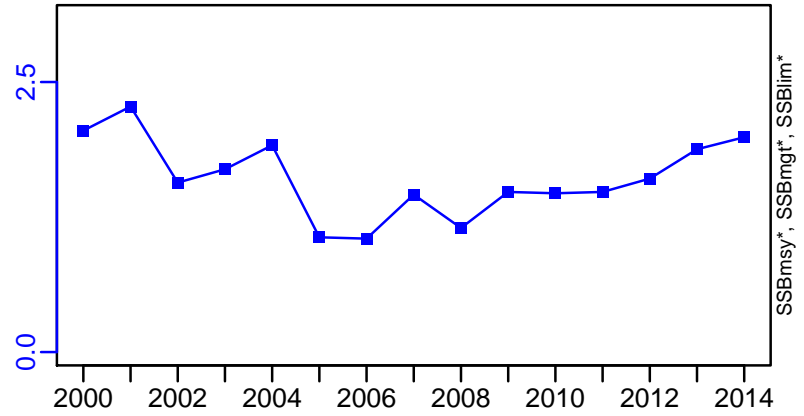
◆ Start Year ◆ End Year * No Data

European seabass Villab [EBASSVillab]

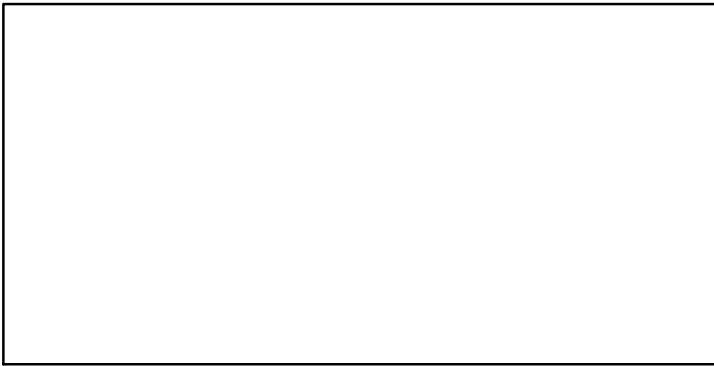
TB*



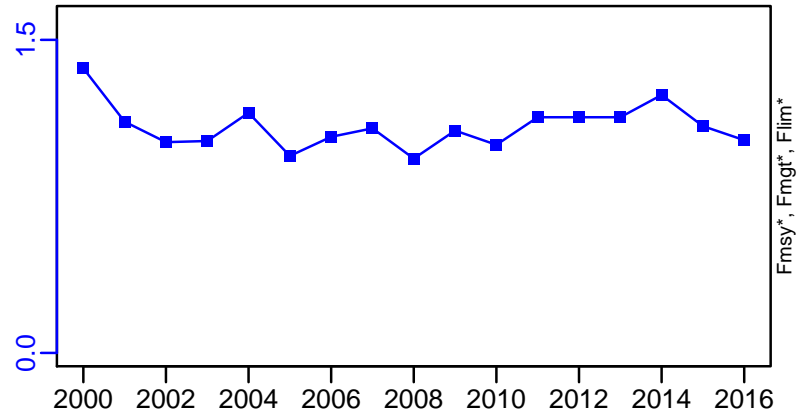
SSB-MT (2000–2014–ICESIMP2018)



TN *



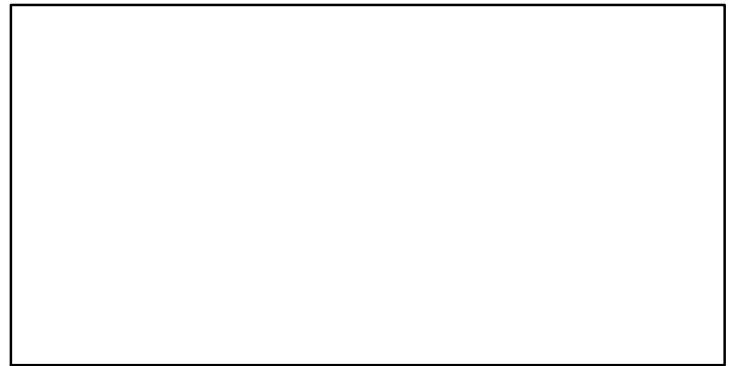
F-1/yr (2000–2016–ICESIMP2018)



ER*



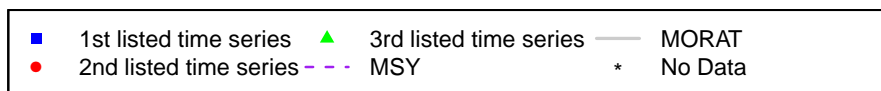
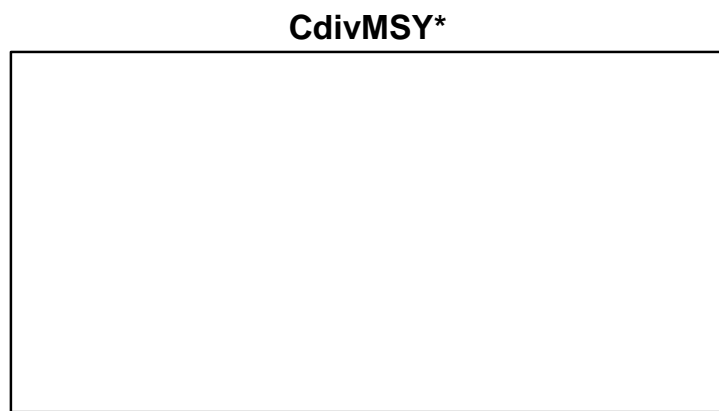
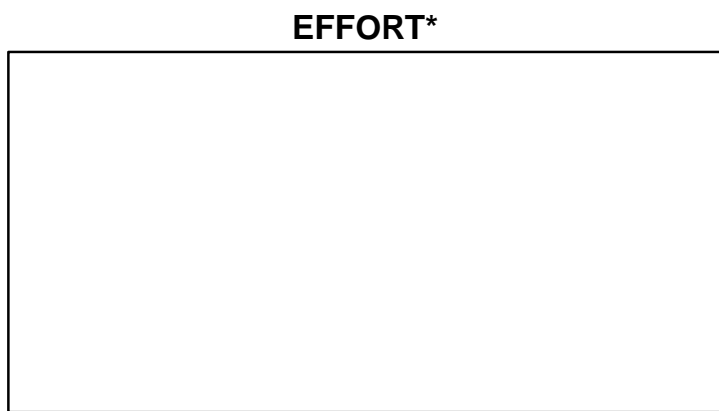
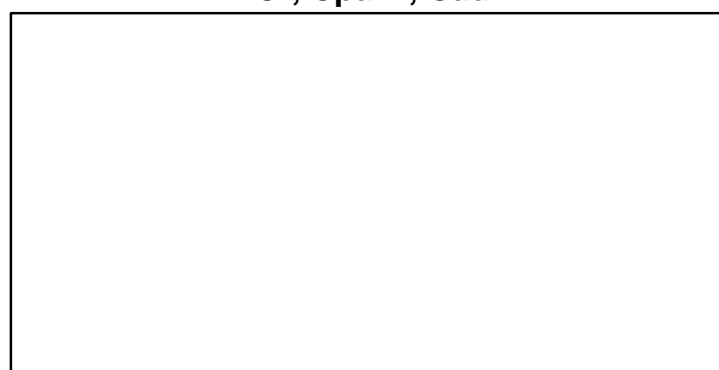
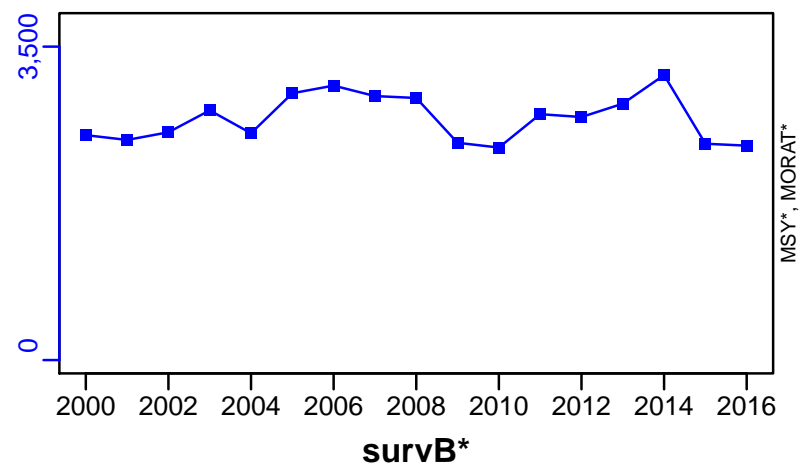
Recruits*



European seabass Villab [EBASSVillab]

TL-MT, TC*, RecC* (2000–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



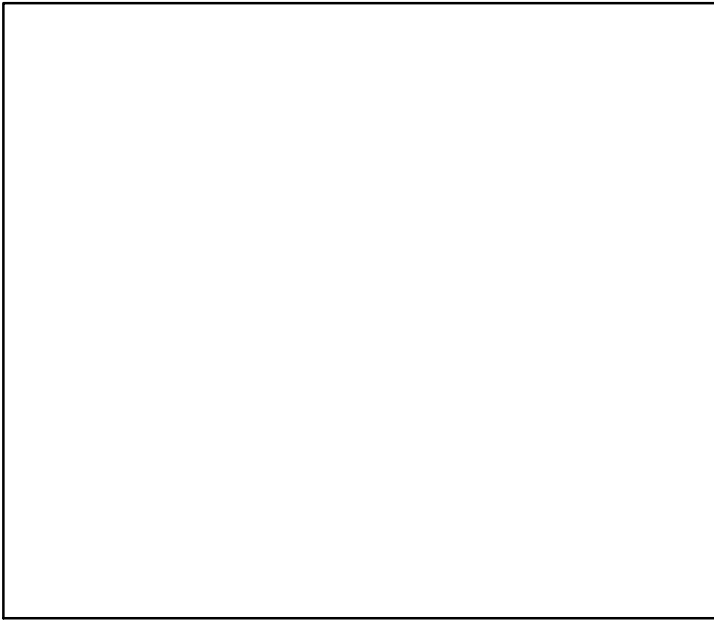
European seabass VIIIc and IXa [EBASSVIIIc-IXa]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIc-IXa-1978-2016-ICESIMP2018
Area	VIIIc-IXa
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

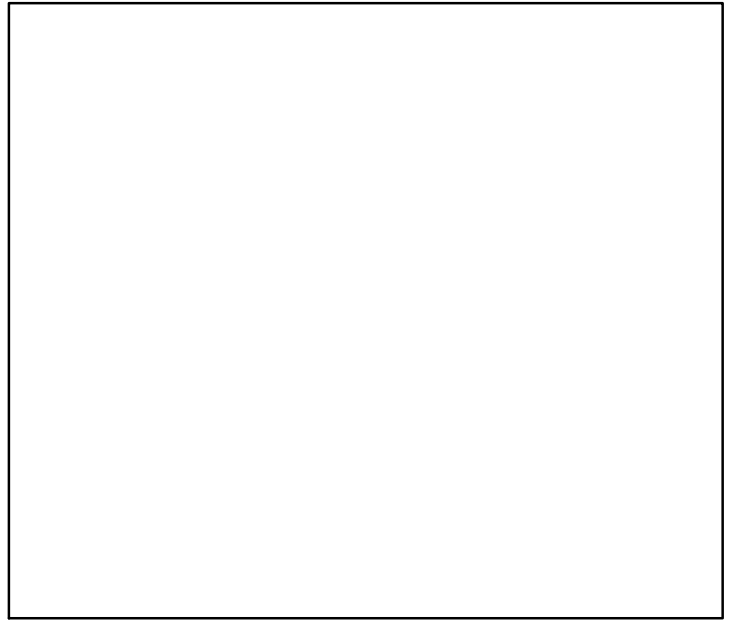
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	917		
TL	TL-MT	2016	947		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

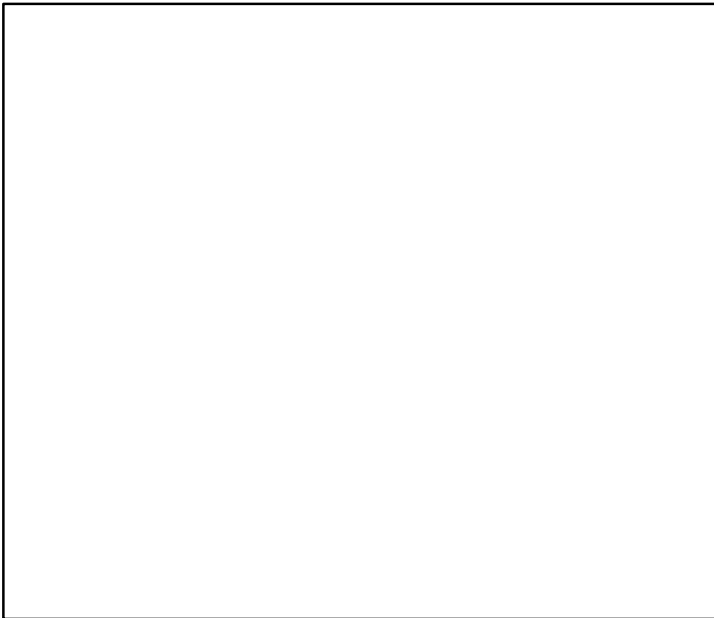
Kobe MSY*



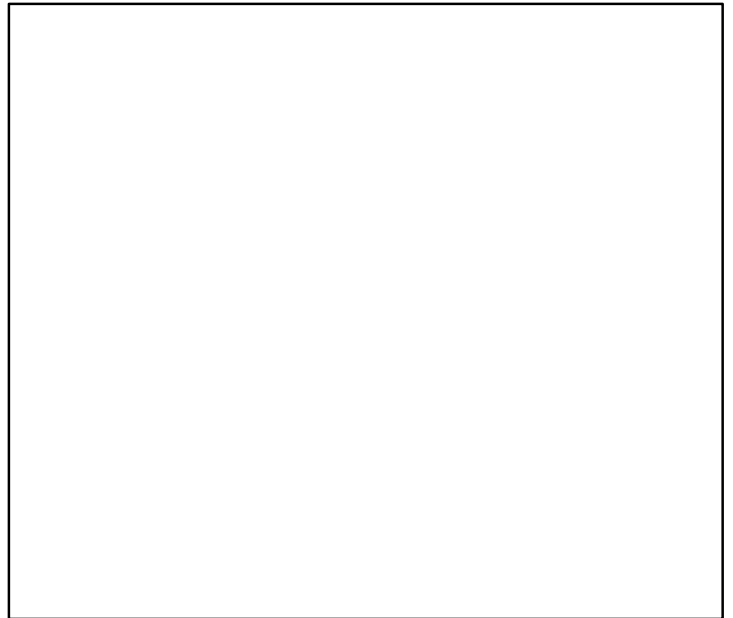
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European seabass VIIIc and IXa [EBASSVIIIc-IXa]

TB*



SSB*



TN *



F*



ER*



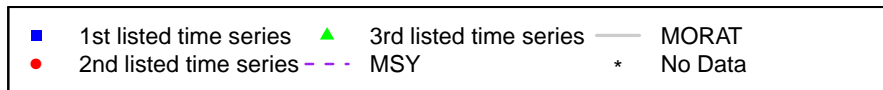
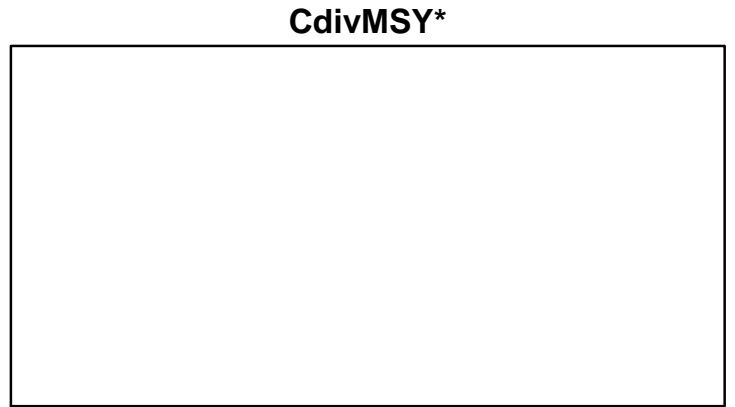
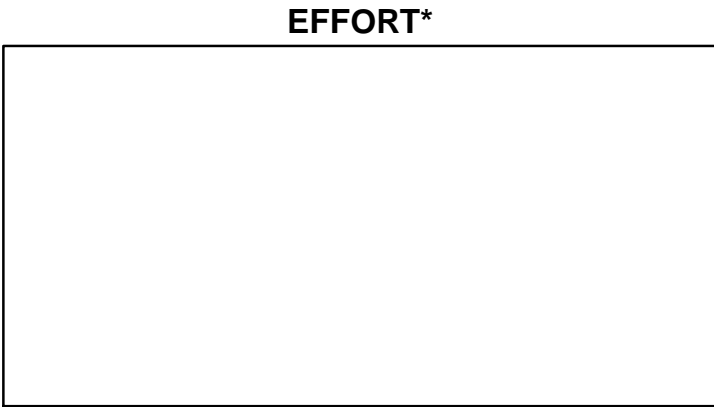
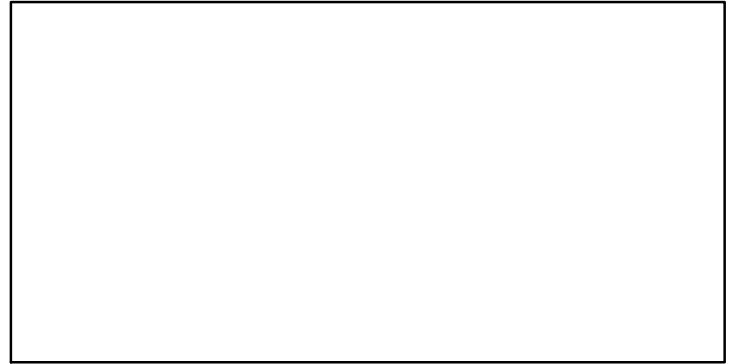
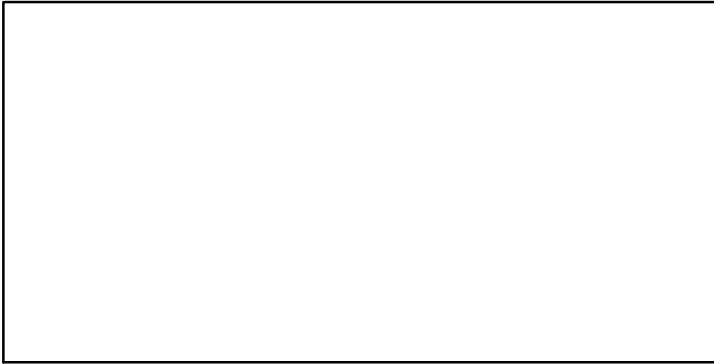
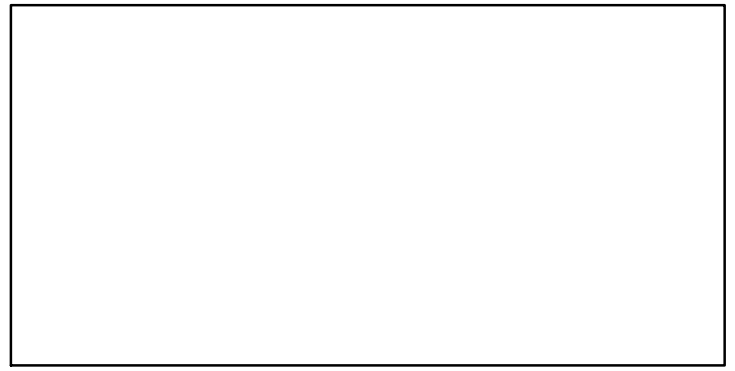
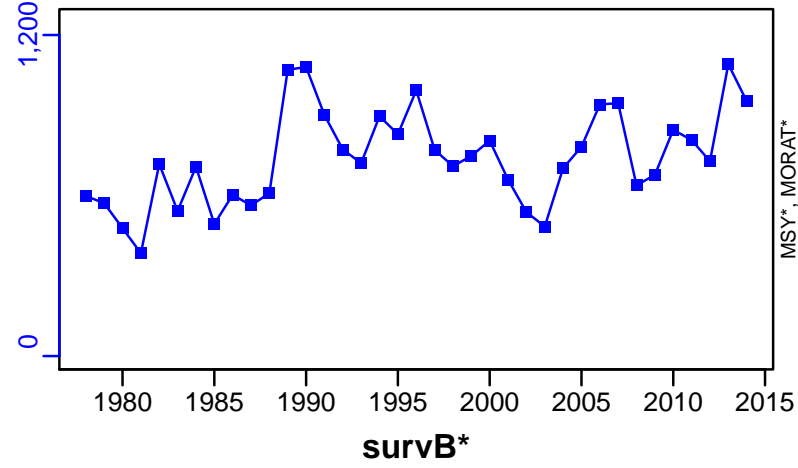
Recruits*



European seabass VIIIc and IXa [EBASSVIIIc-IXa]

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

TAC*, Cpair*, Cadv*



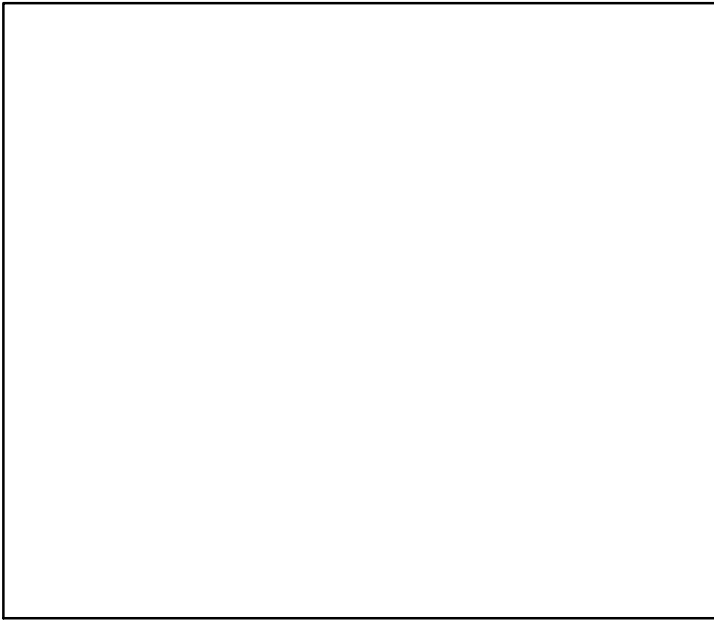
European flounder Subdivisions 22-23 [EFLOUN2223]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2223-1973-2016-ICESIMP2018
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

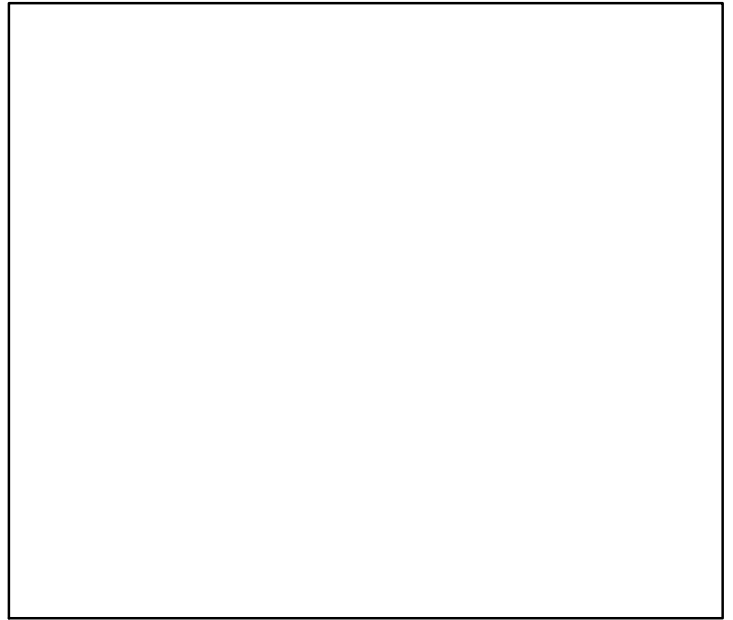
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	385	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1650		
TL	TL-MT	2016	1130		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

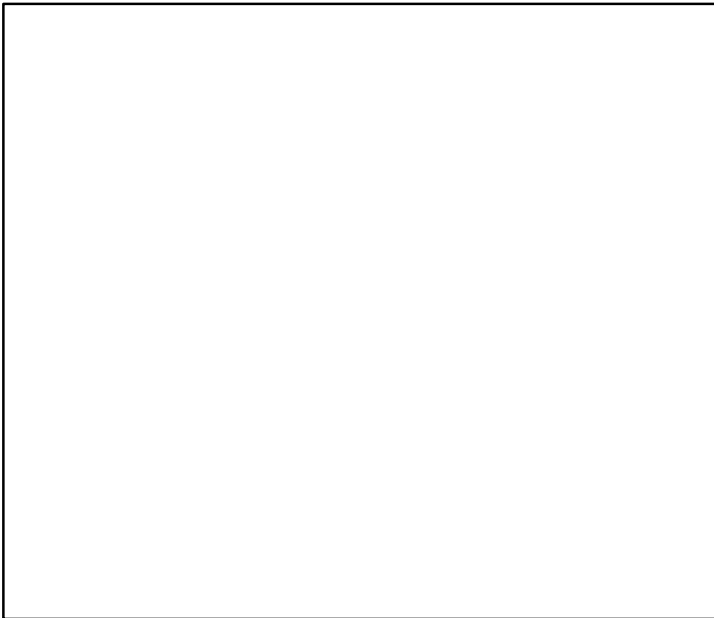
Kobe MSY*



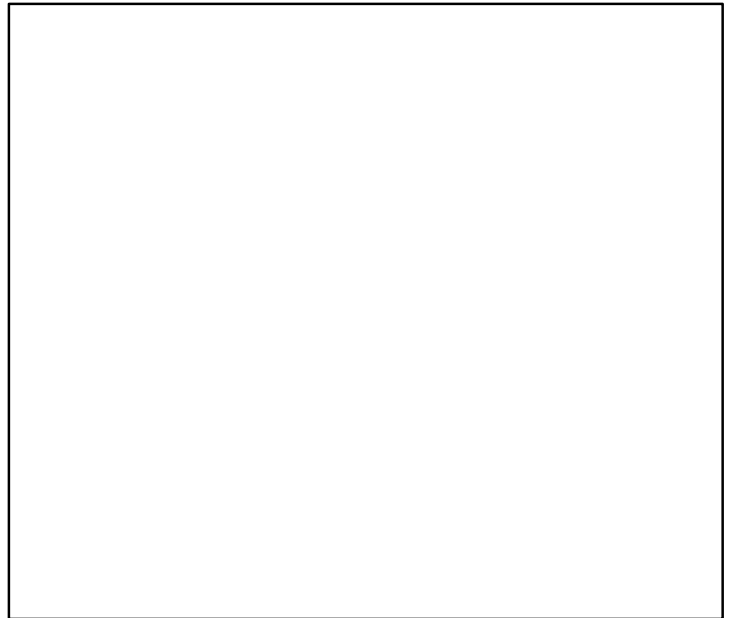
Kobe MGT*



Spawner Recruit*



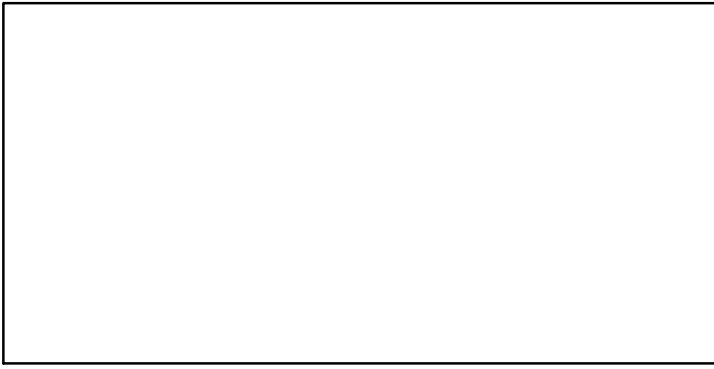
Production*



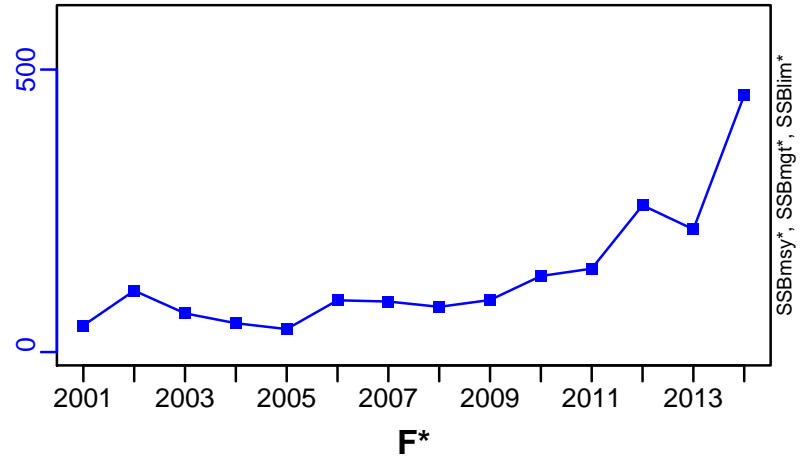
◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

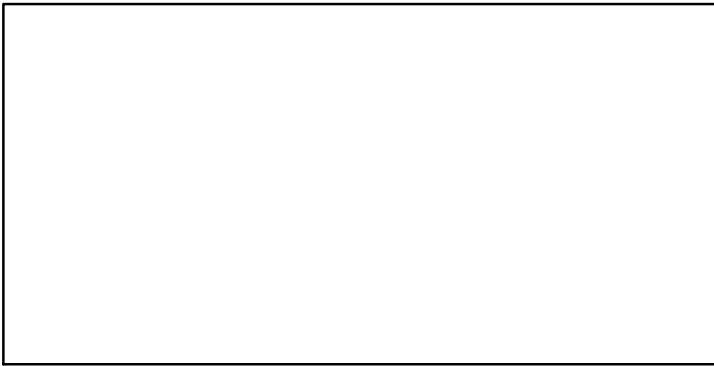
TB*



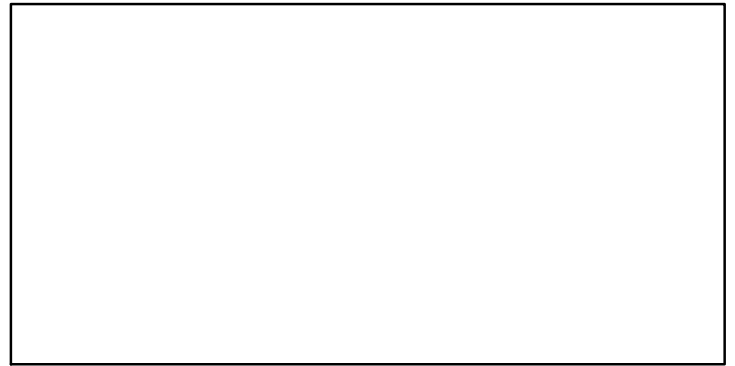
SSB-MT (1973–2014–ICESIMP2018)



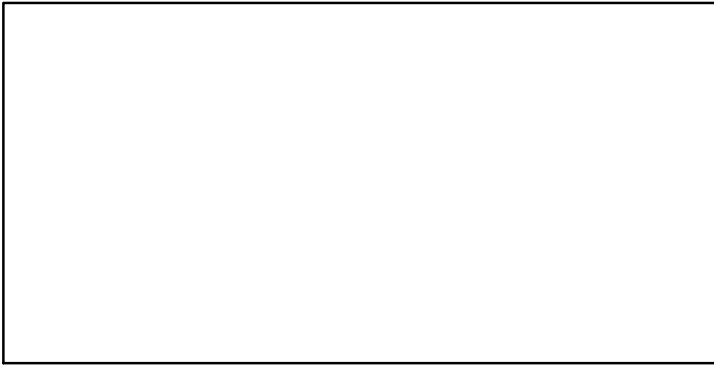
TN *



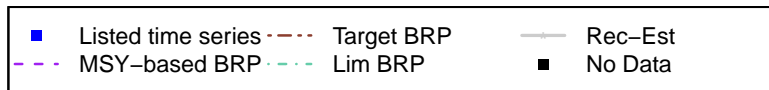
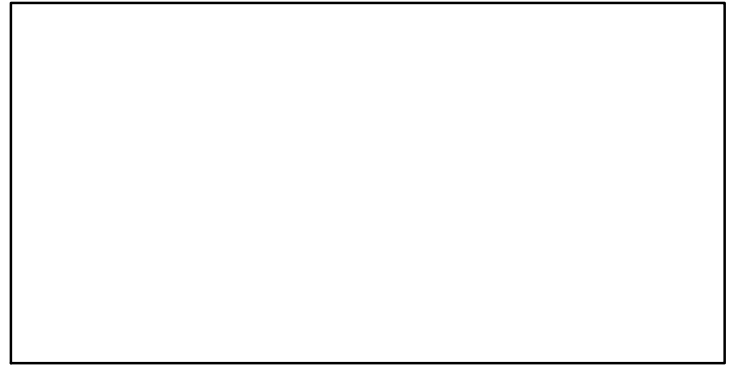
F*



ER*



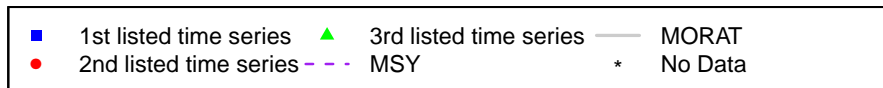
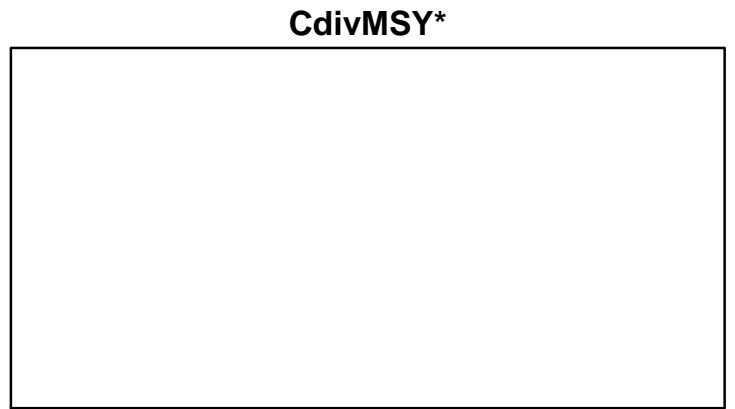
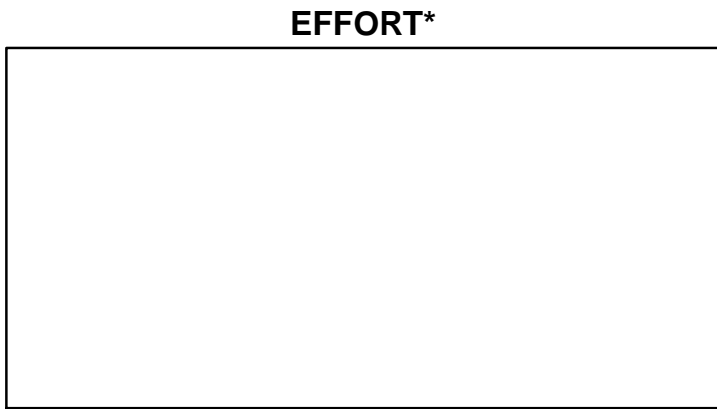
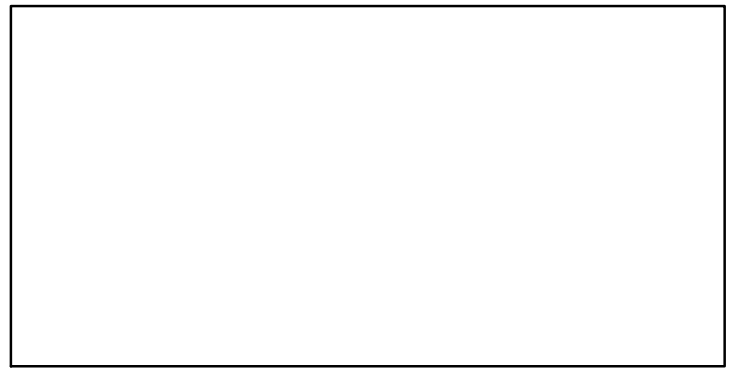
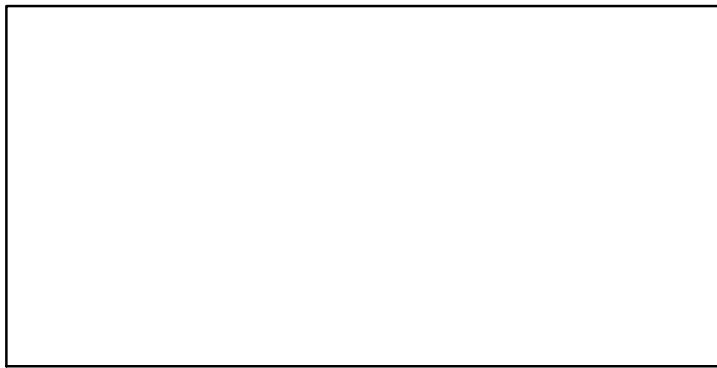
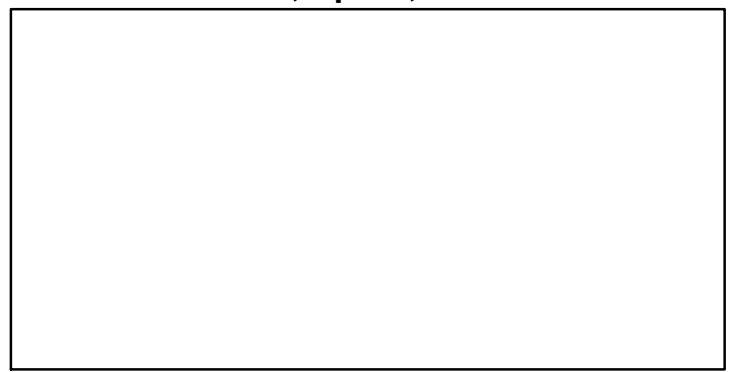
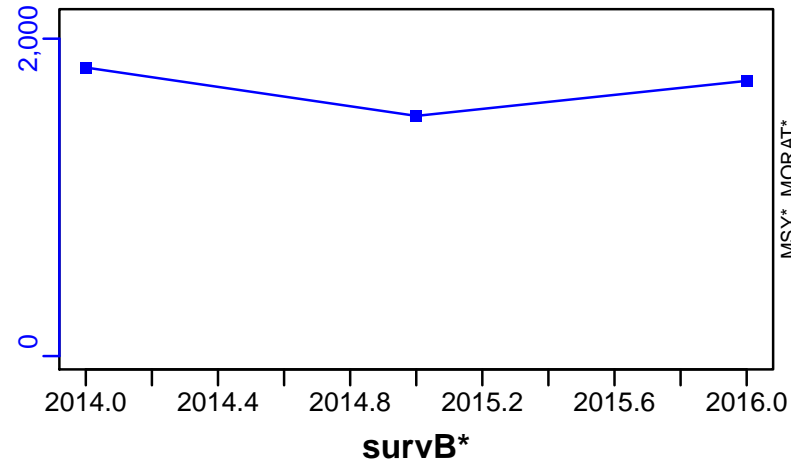
Recruits*



European flounder Subdivisions 22–23 [EFLOUN2223]

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

TAC*, Cpair*, Cadv*



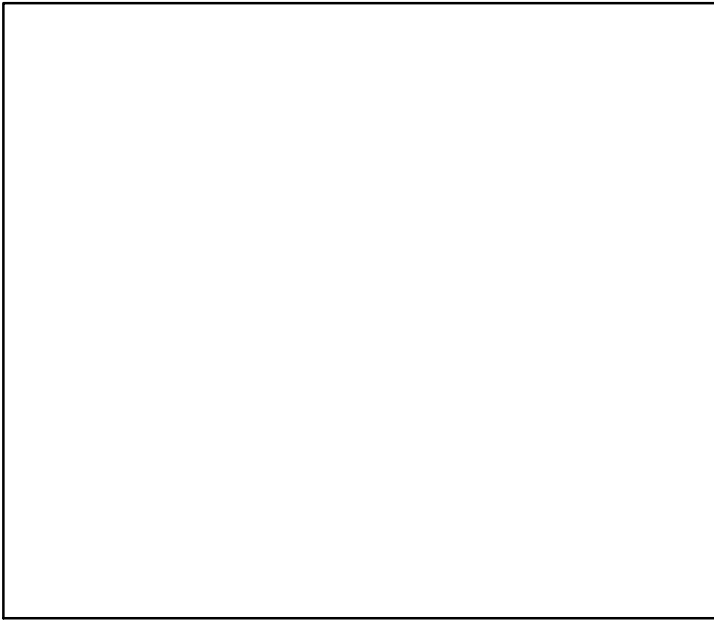
European flounder Subdivisions 24-25 [EFLOUN2425]

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

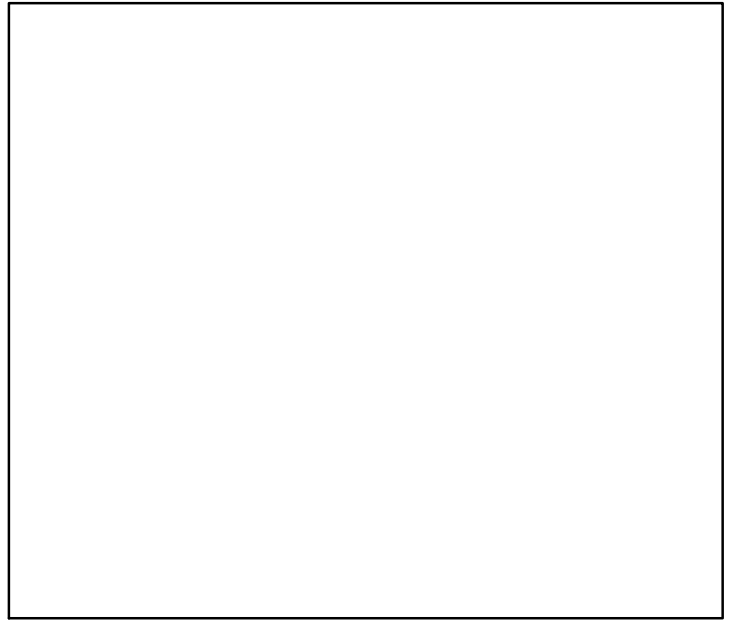
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	19,800		
TL	TL-MT	2016	11,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

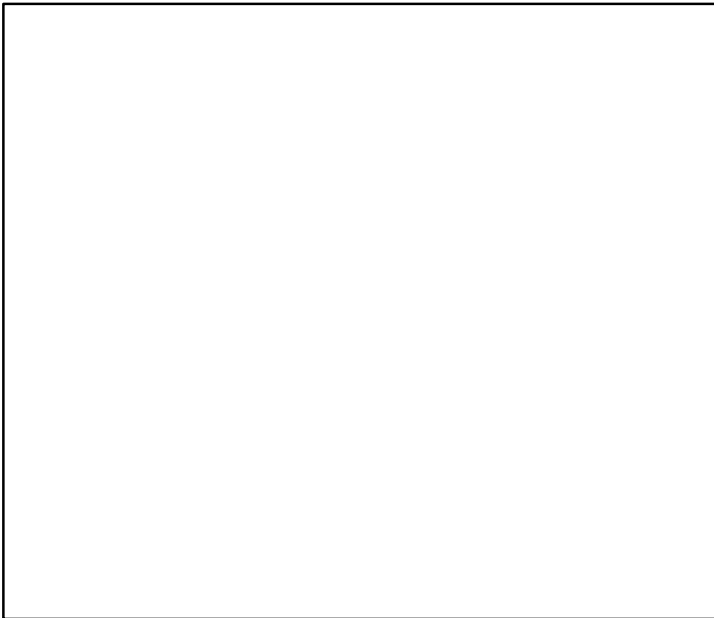
Kobe MSY*



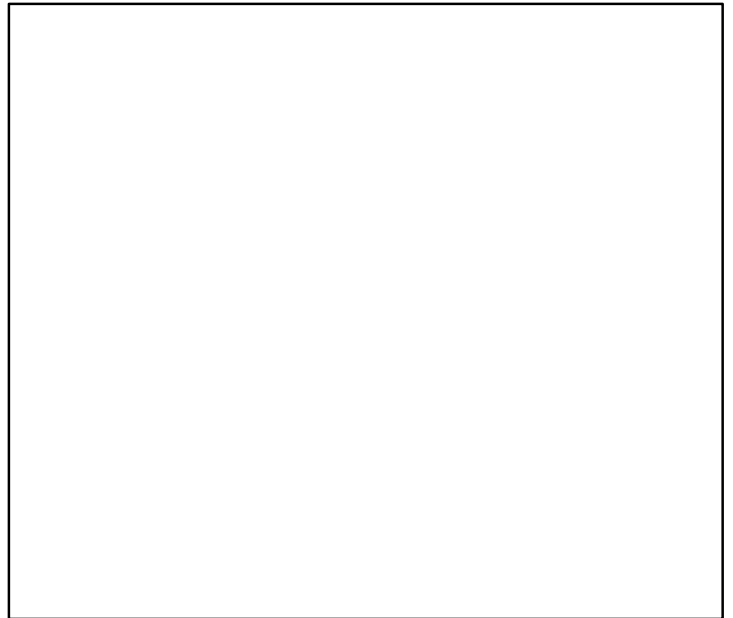
Kobe MGT*



Spawner Recruit*



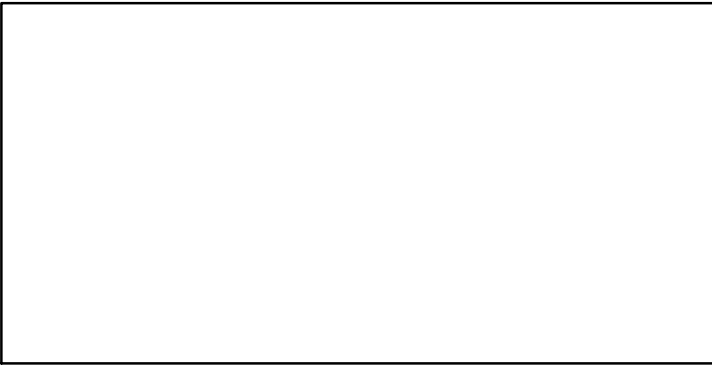
Production*



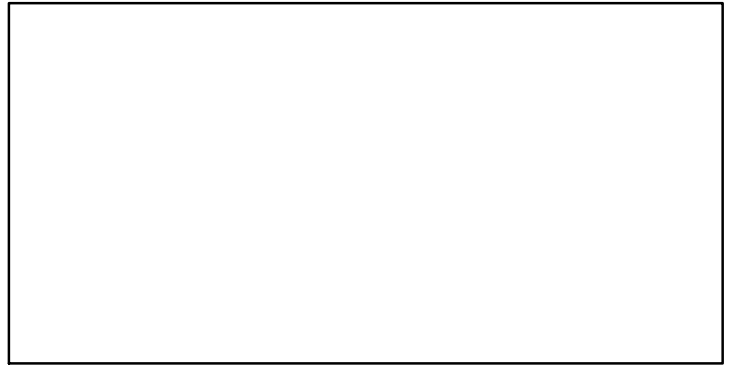
◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

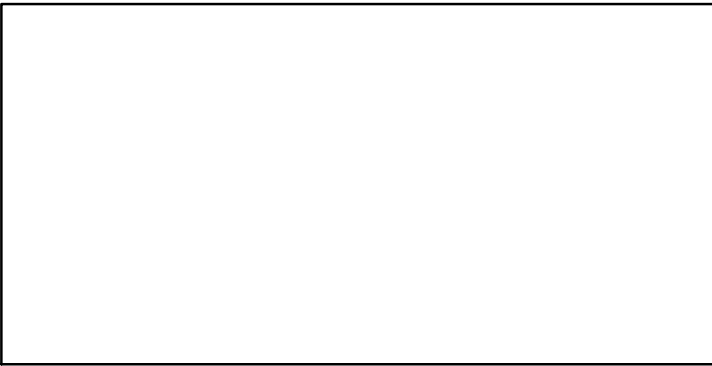
TB*



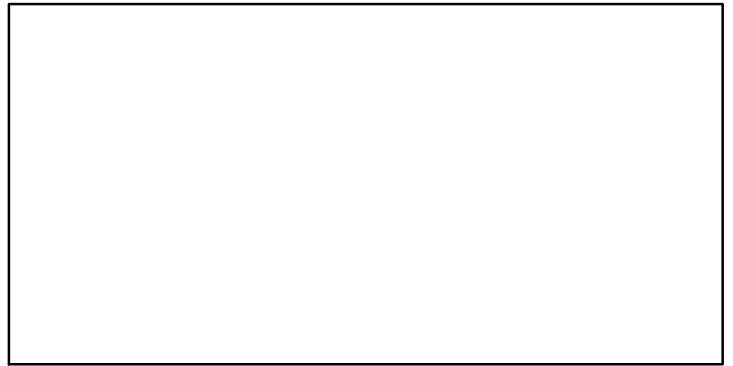
SSB*



TN *



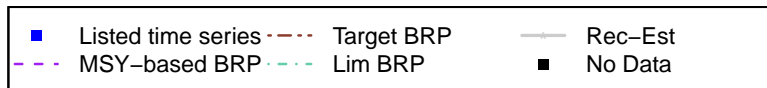
F*



ER*



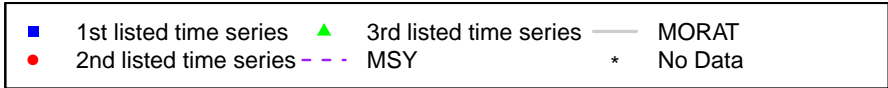
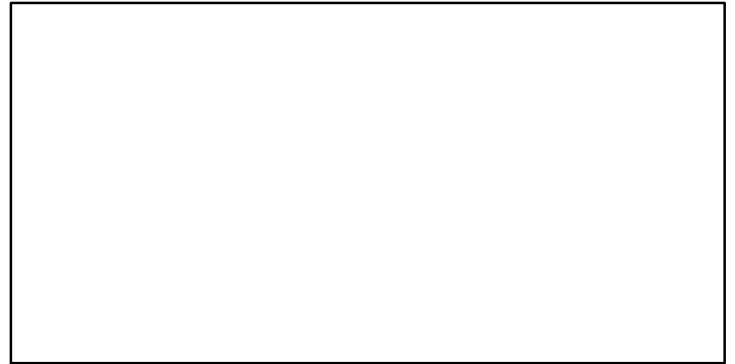
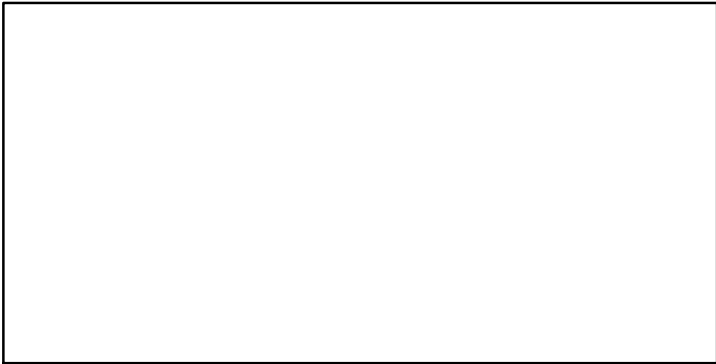
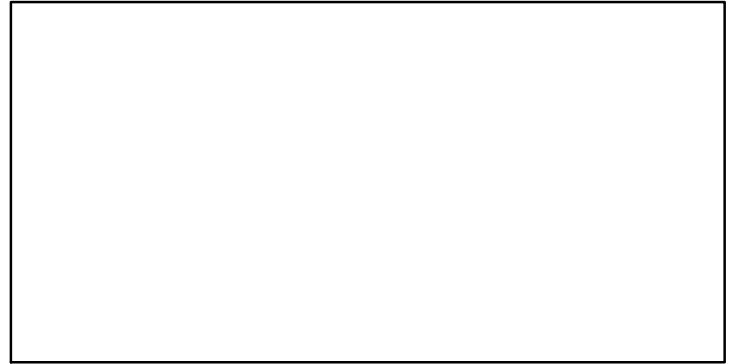
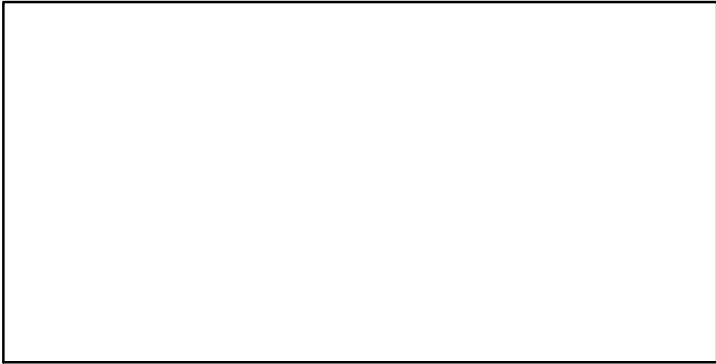
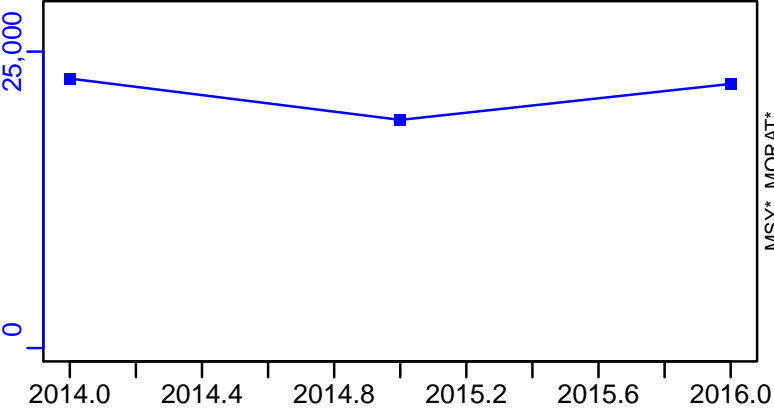
Recruits*



European flounder Subdivisions 24–25 [EFLOUN2425]

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

TAC*, Cpair*, Cadv*



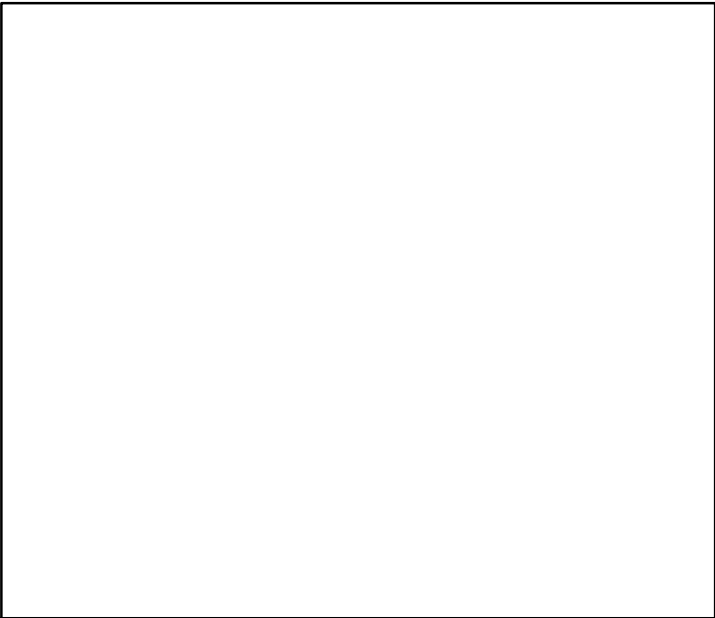
European flounder Subdivisions 26-28 [EFLOUN26-28]

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

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

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

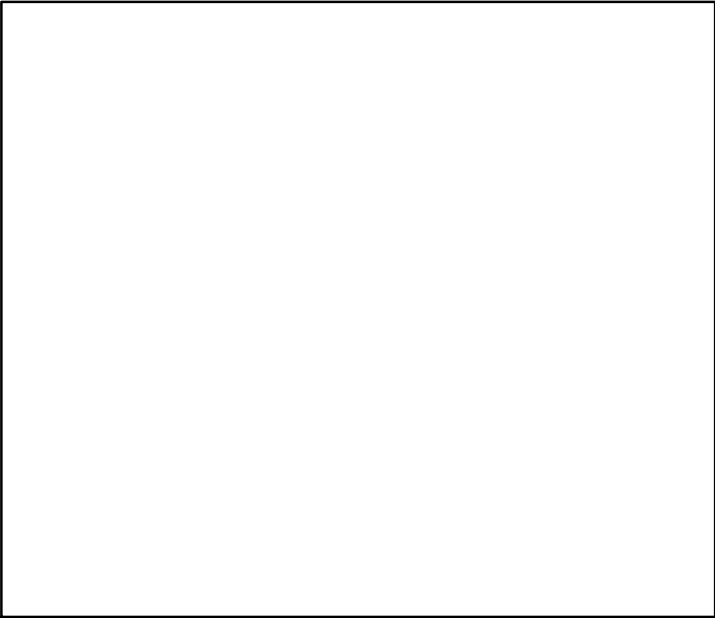
Kobe MSY*



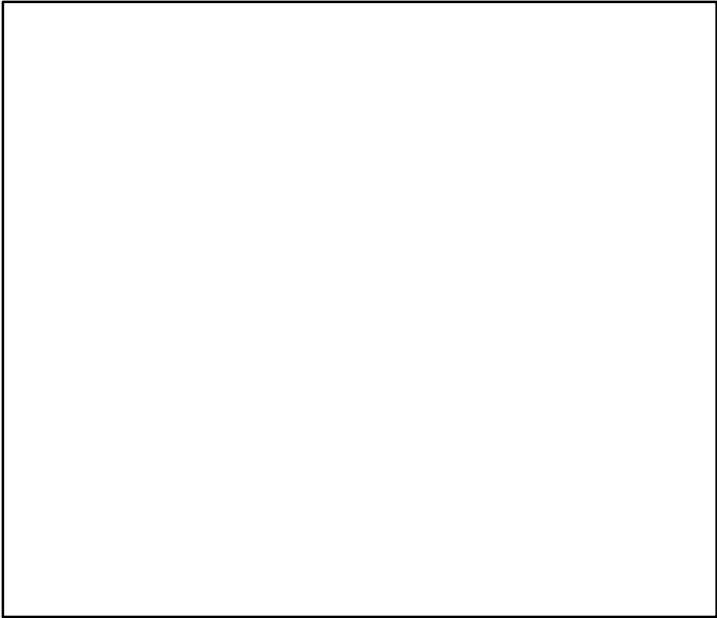
Kobe MGT*



Spawner Recruit*

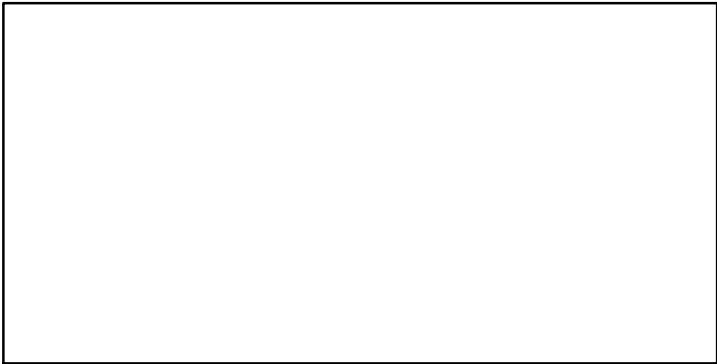


Production*

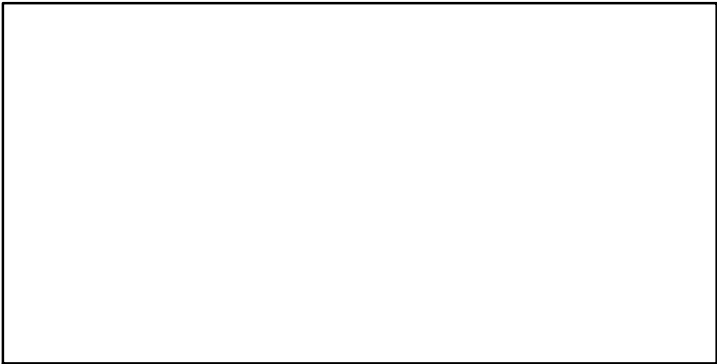


◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



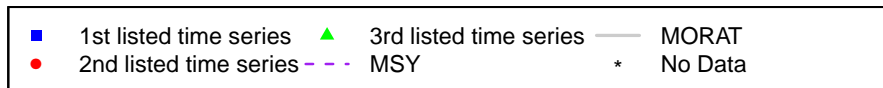
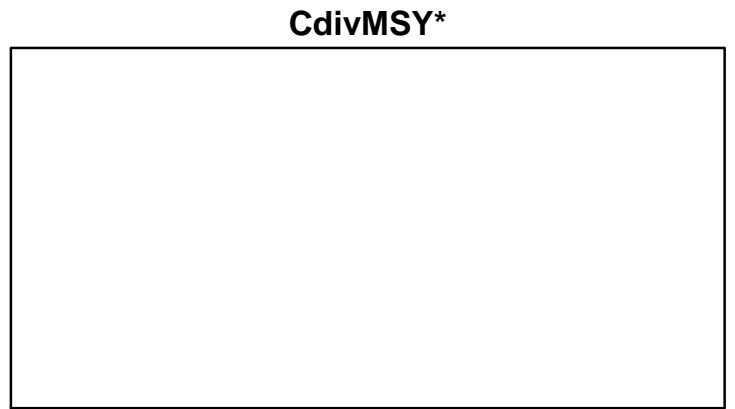
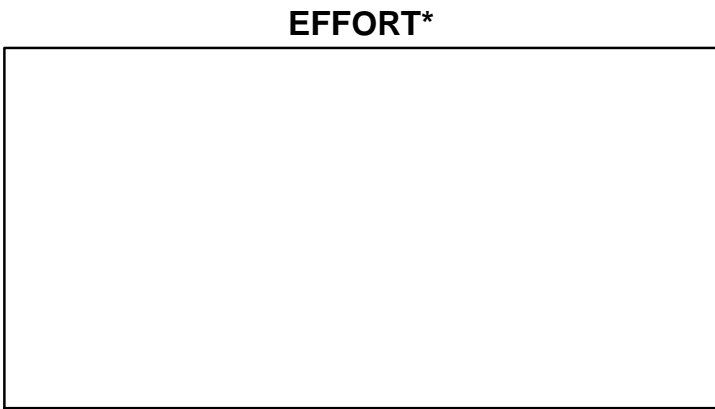
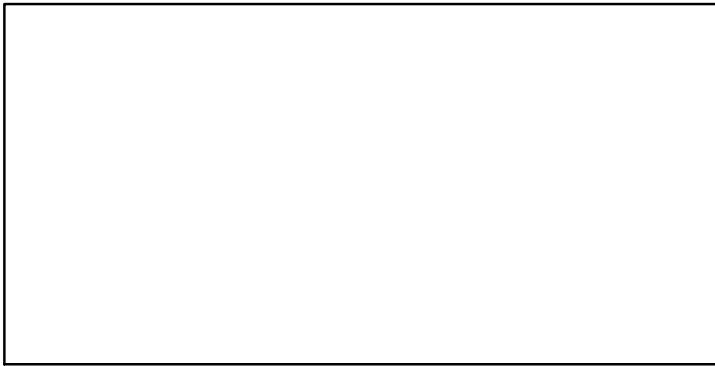
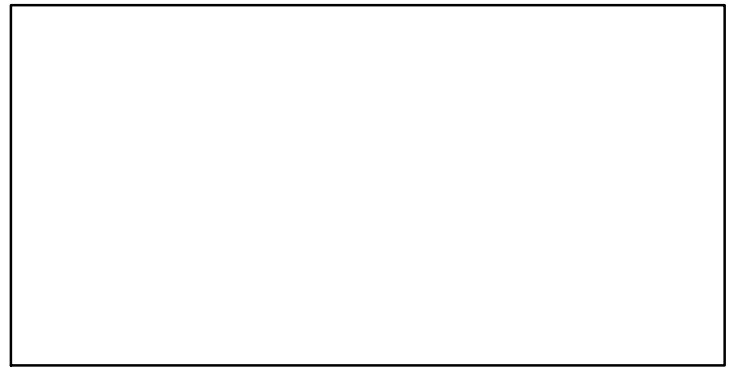
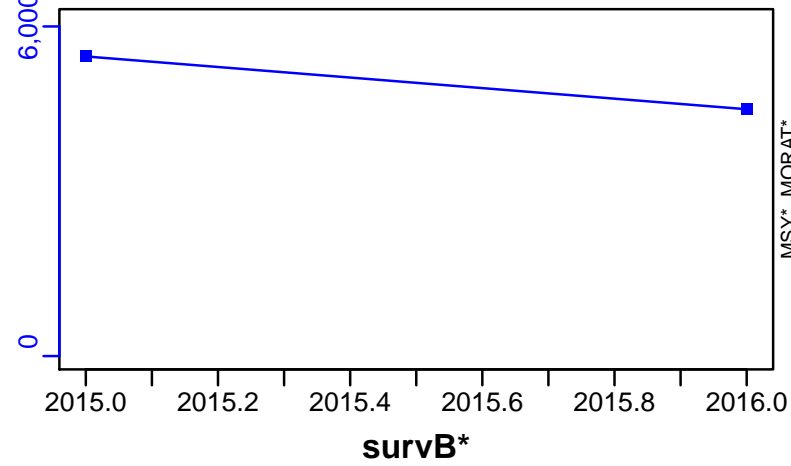
Recruits*



European flounder Subdivisions 26–28 [EFLOUN26–28]

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

TAC*, Cpair*, Cadv*



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

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

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

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

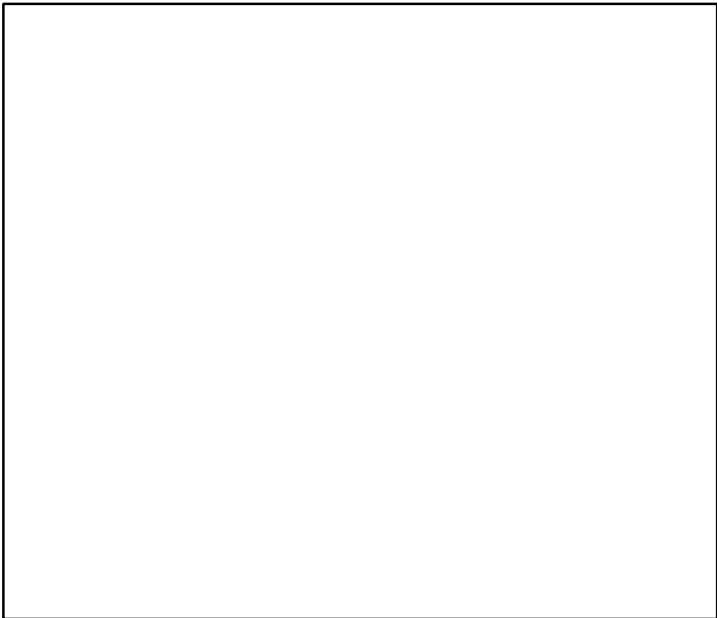
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

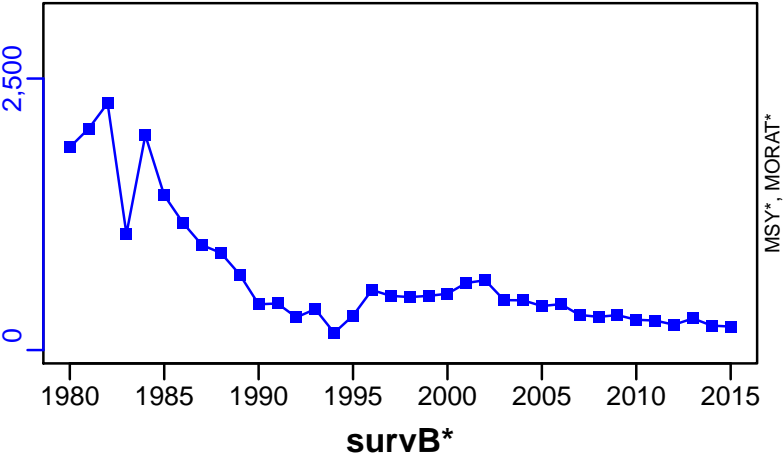


Recruits*

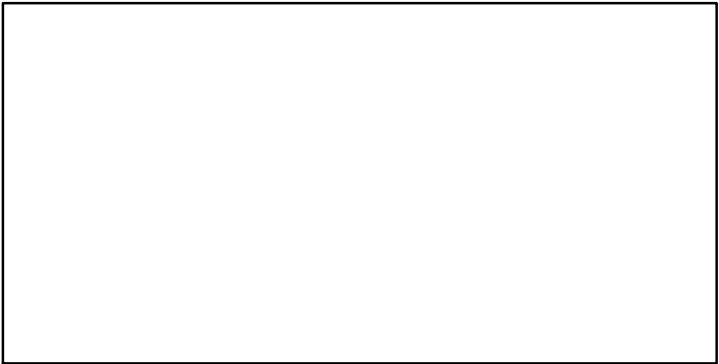


European flounder Subdivisions 27 and 29–32 [EFLOUN27–2932]

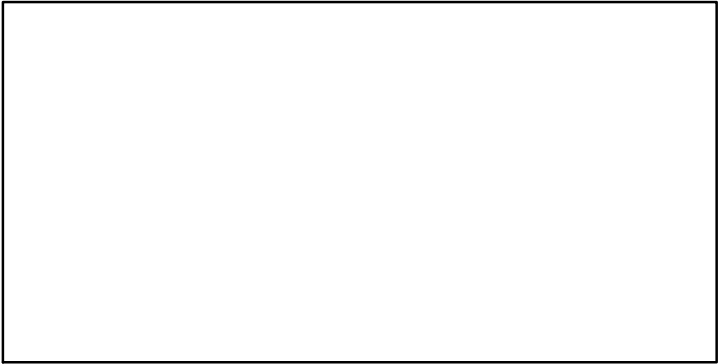
TL–MT, TC*, RecC* (1980–2016–ICESIMP2016)



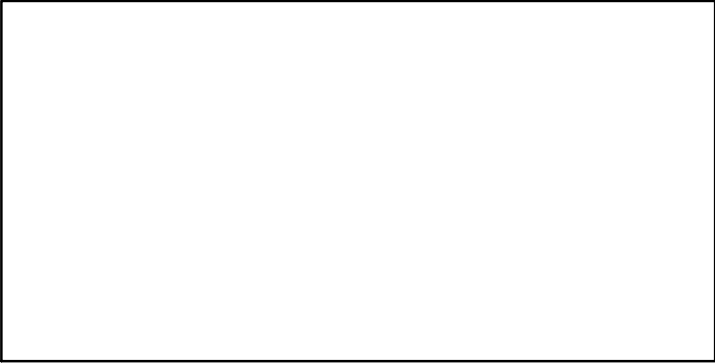
TAC*, Cpair*, Cadv*



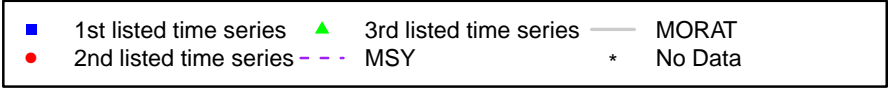
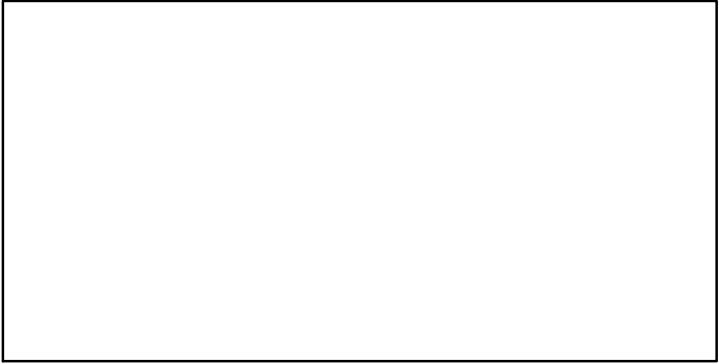
CPUE*



EFFORT*



CdivMSY*



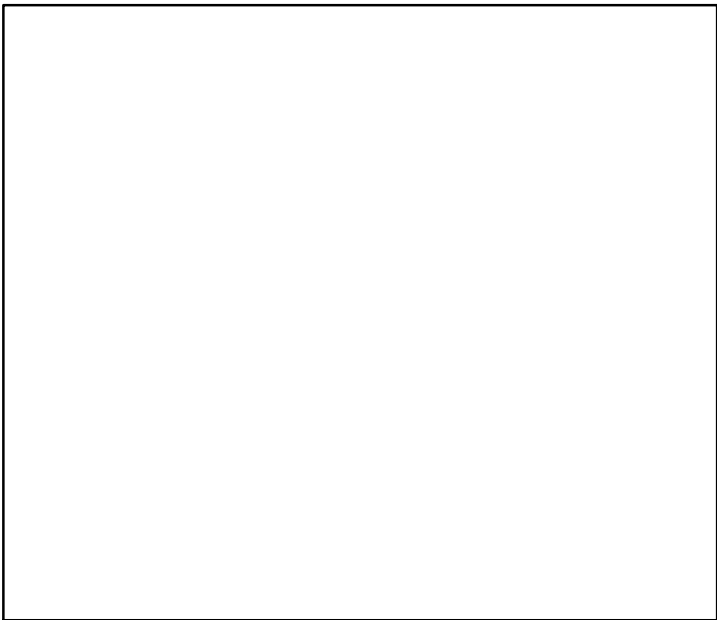
European flounder IIIa and North Sea [EFLOUNIIIa-IV]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGNSSK-EFLOUNIIIa-IV-1965-2016-ICESIMP2018
Area	IIIa and 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	2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	3.66	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2440		
TL	TL-MT	2016	1750		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

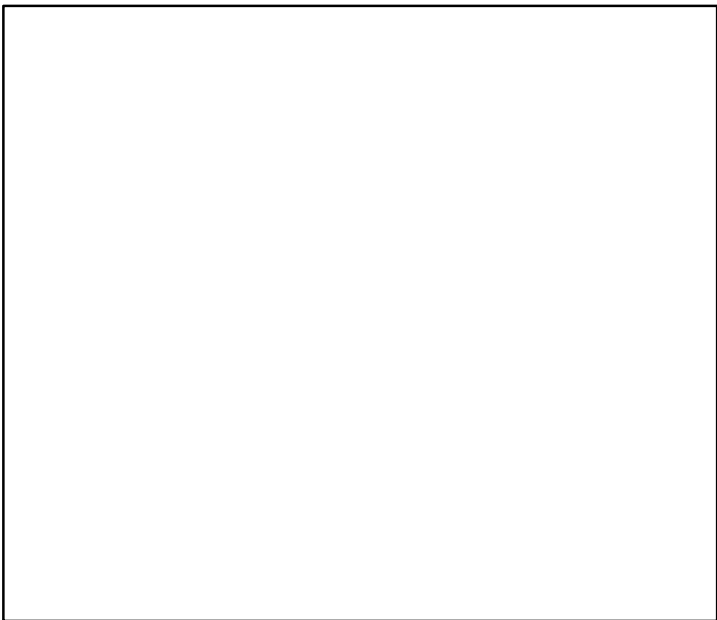
Kobe MSY*



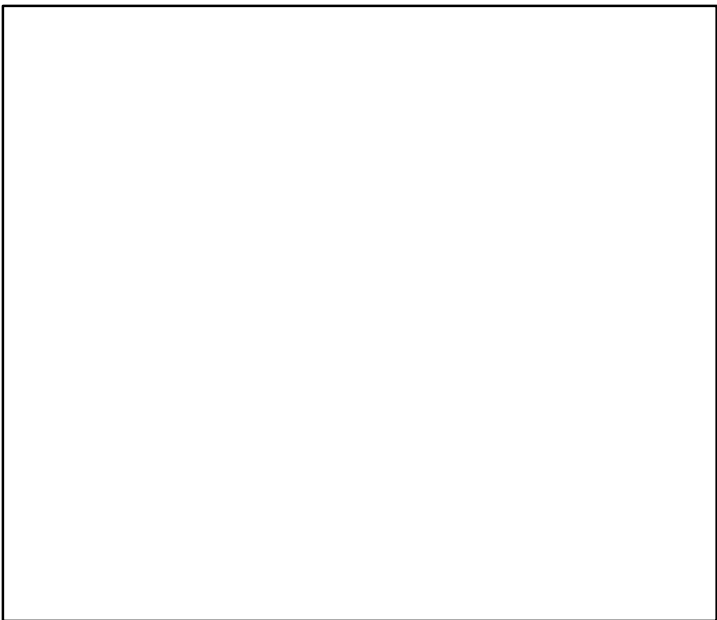
Kobe MGT*



Spawner Recruit*



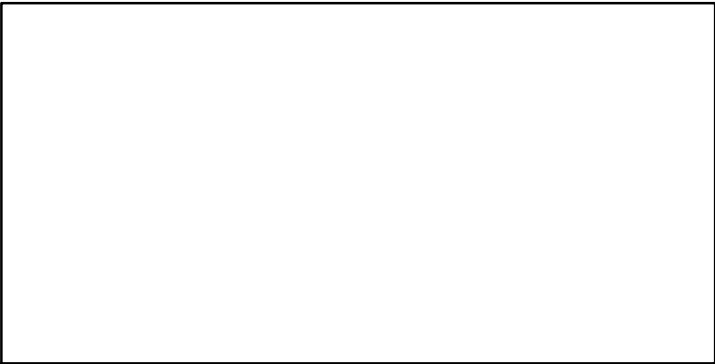
Production*



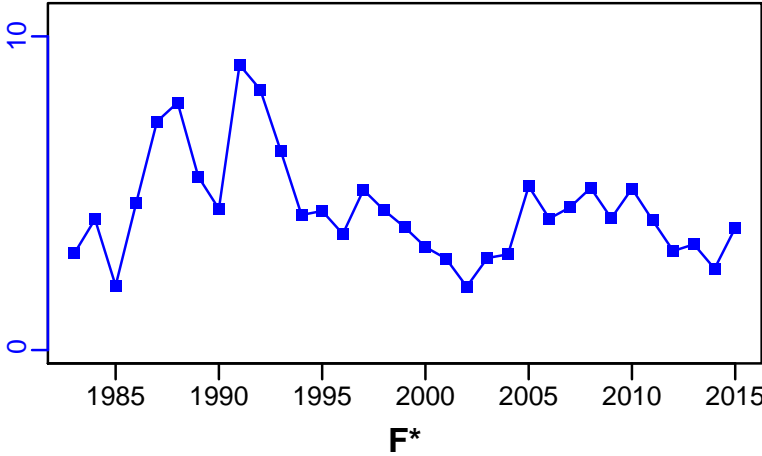
◆ Start Year ◆ End Year * No Data

European flounder IIIa and North Sea [EFLOUNIIIa-IV]

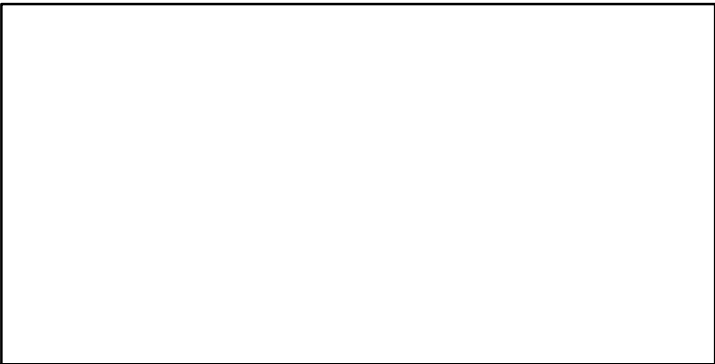
TB*



SSB-MT (1950–2015–ICESIMP2018)



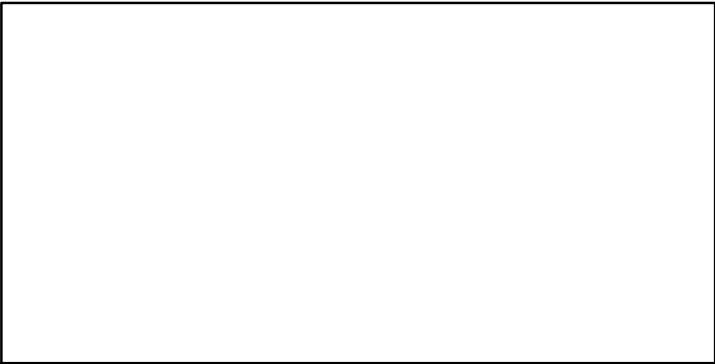
TN *



F*



ER*

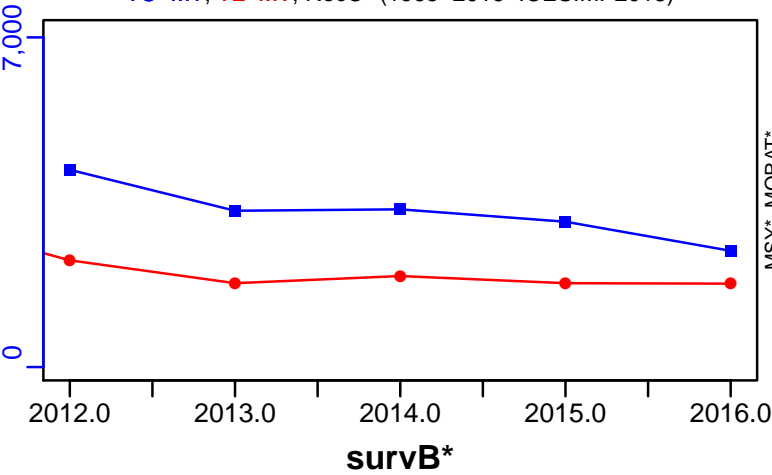


Recruits*



European flounder IIIa and North Sea [EFLOUNIIIa-IV]

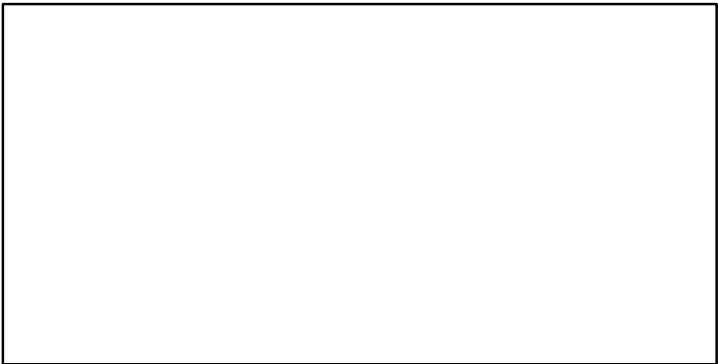
TC-MT, TL-MT, RecC* (1965–2016–ICESIMP2018)



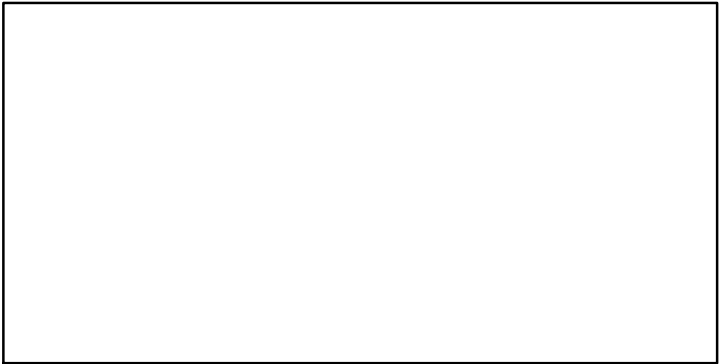
TAC*, Cpair*, Cadv*



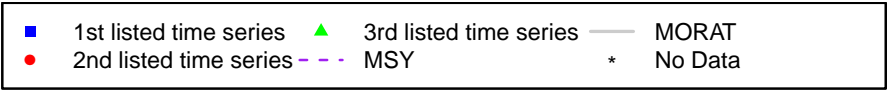
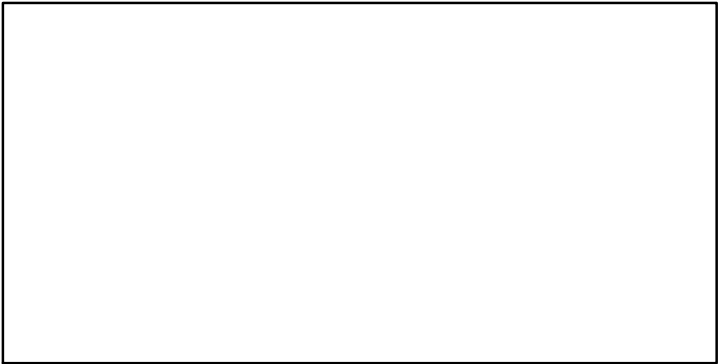
CPUE*



EFFORT*



CdivMSY*

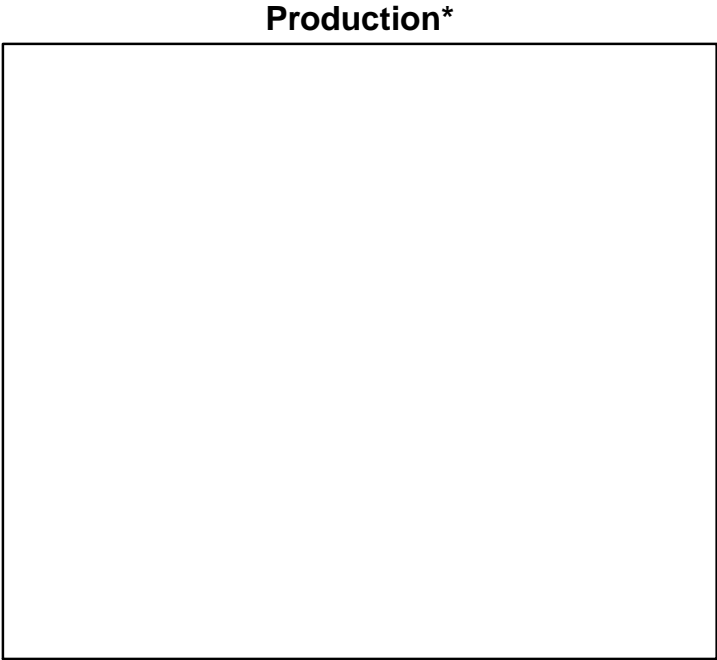
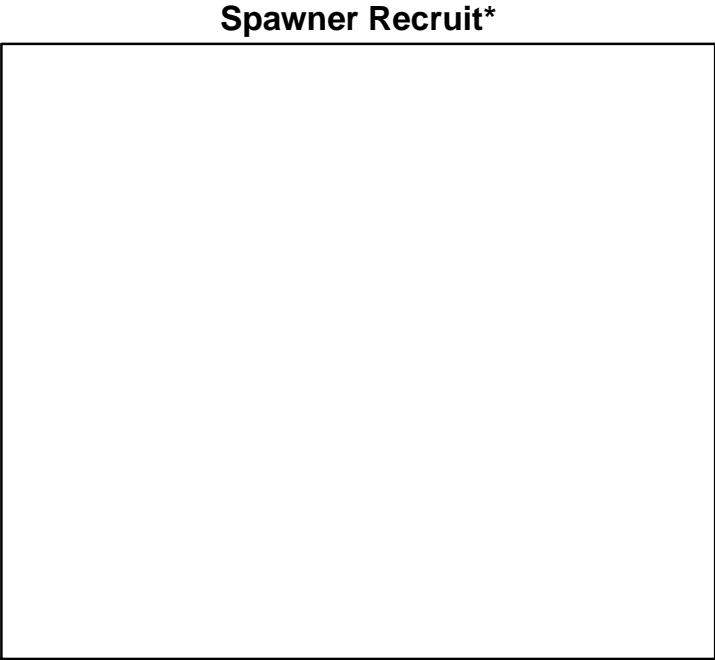
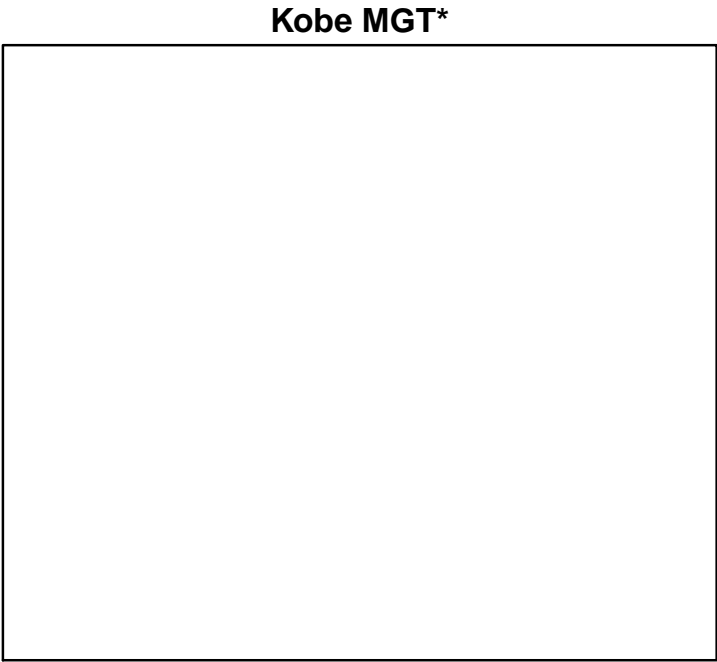
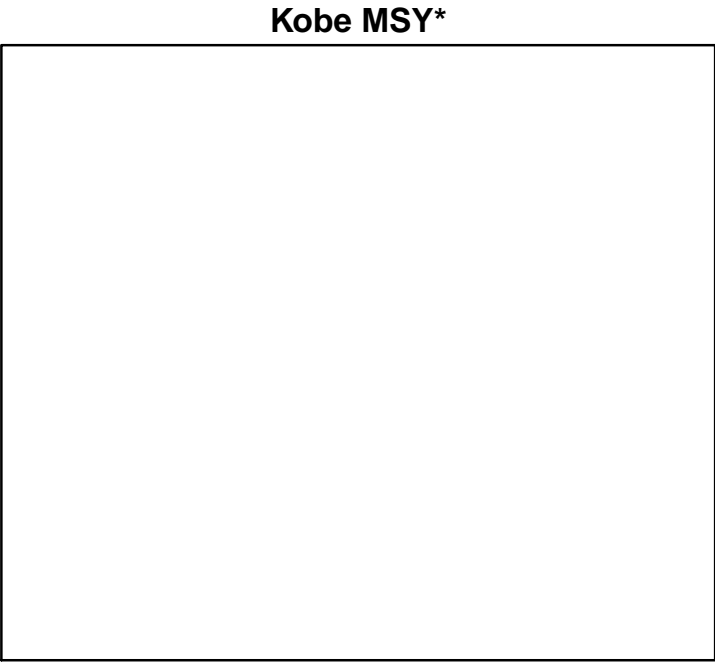


European pollack IIIa and North Sea [EPOLLIV-IIIa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGNSSK-EPOLLIV-IIIa-1977-2017-ICESIMP2018
Area	IIIa and 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	2016, 2017

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

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



◆ Start Year ◆ End Year * No Data

European pollack IIIa and North Sea [EPOLLIV-IIIa]

TB*



SSB*



TN *



F*



ER*

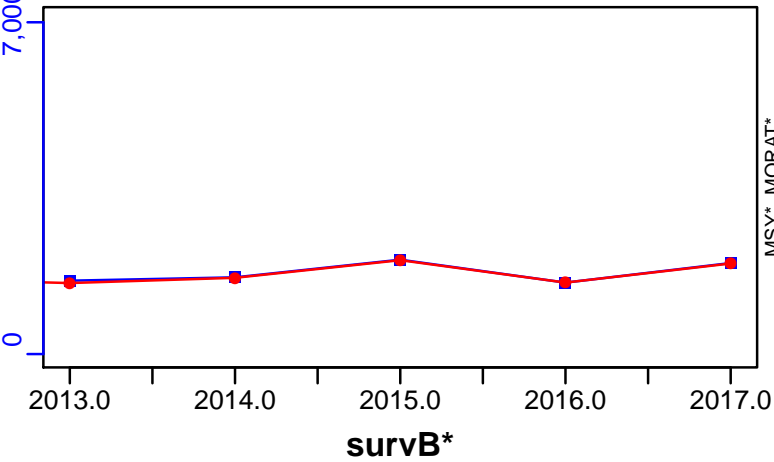


Recruits*

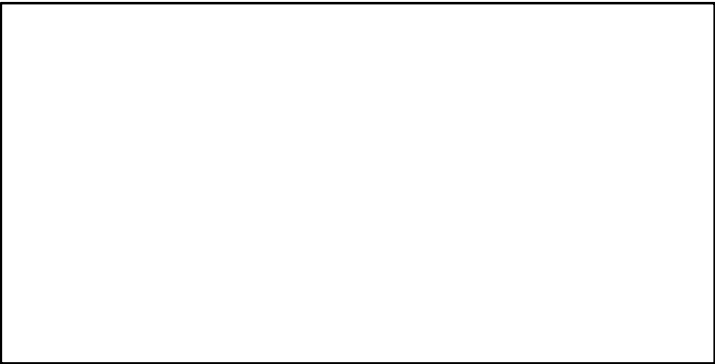


European pollack IIIa and North Sea [EPOLLIV-IIIa]

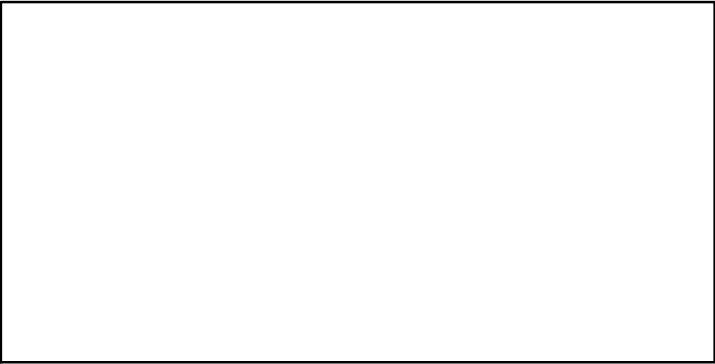
TC-MT, TL-MT, RecC* (1977-2017-ICESIMP2018)



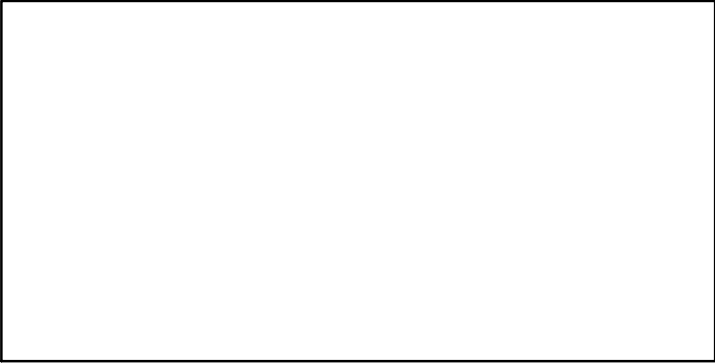
TAC*, Cpair*, Cadv*



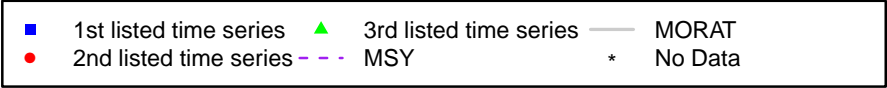
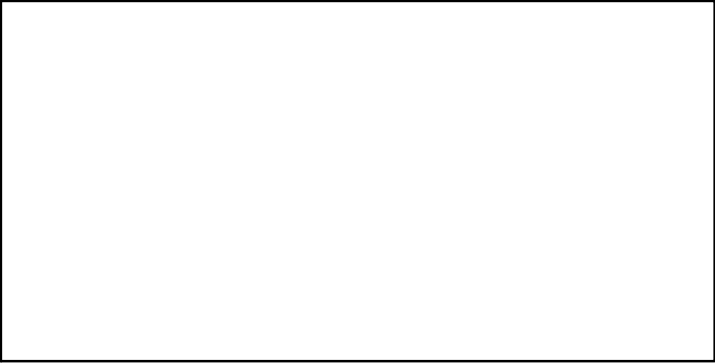
CPUE*



EFFORT*



CdivMSY*



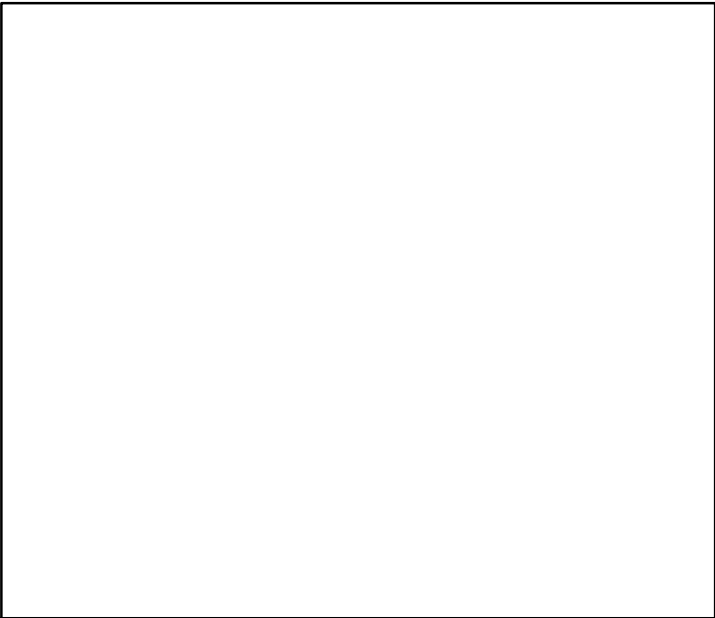
European pollack VIII and IXa [EPOLLVIII-IXa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGBIE-EPOLLVIII-IXa-1985-2016-ICESIMP2018
Area	VIII and IXa
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	1610		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

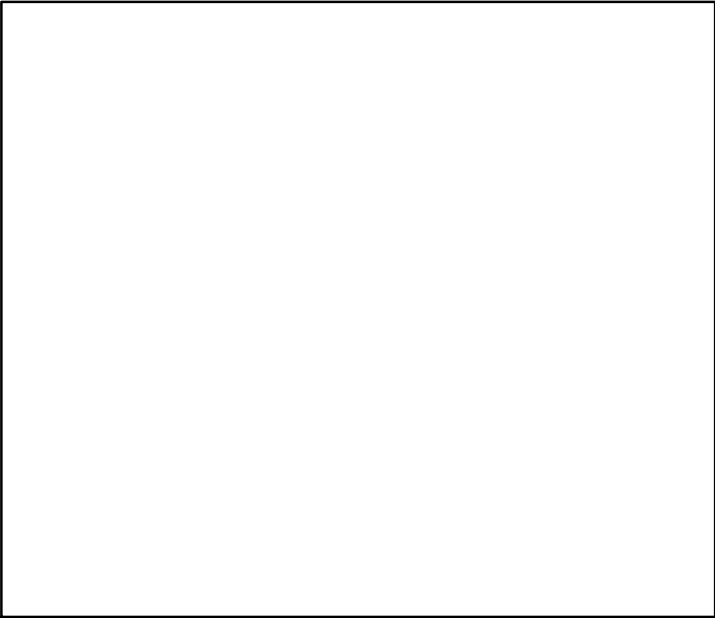
Kobe MSY*



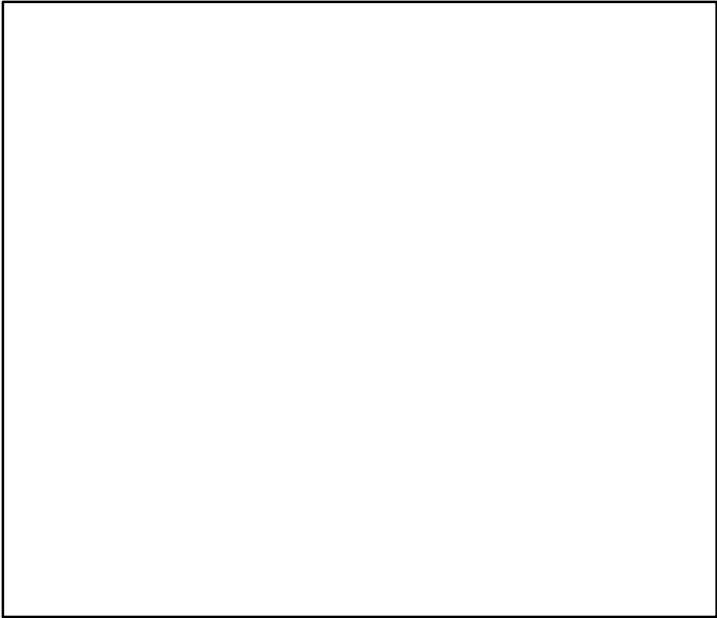
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European pollack VIII and IXa [EPOLLVIII-IXa]

TB*



SSB*



TN *



F*



ER*



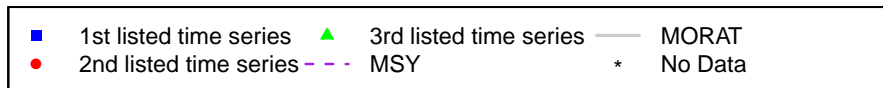
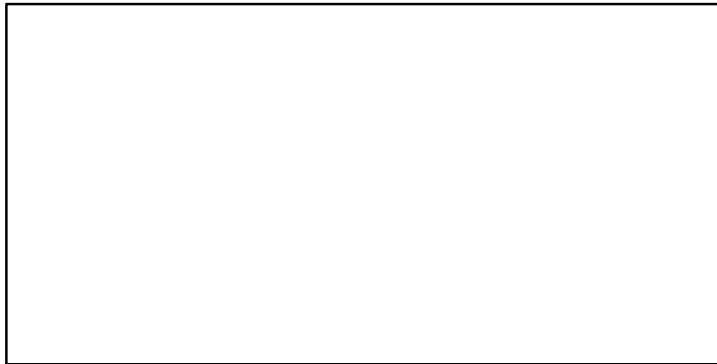
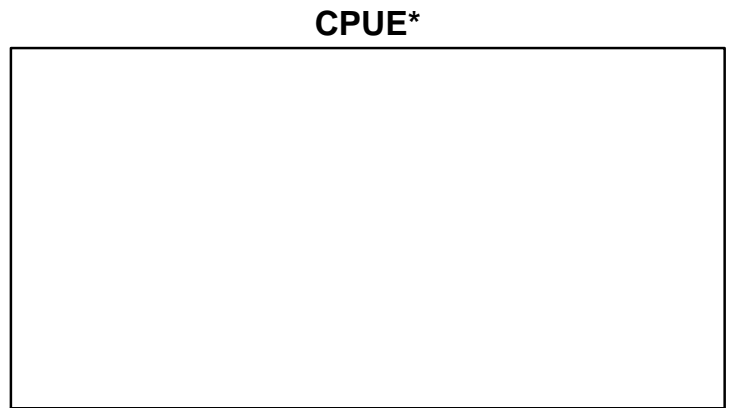
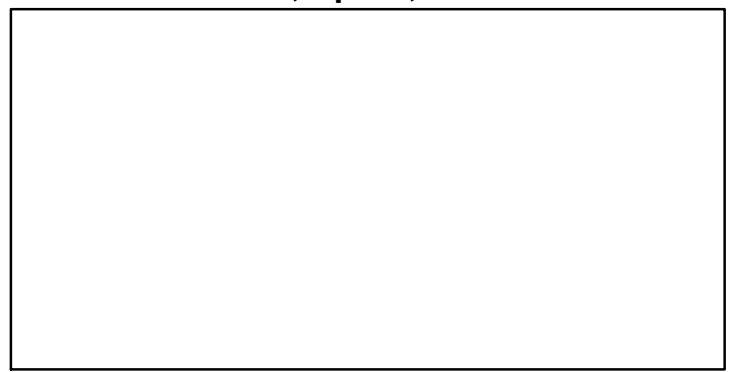
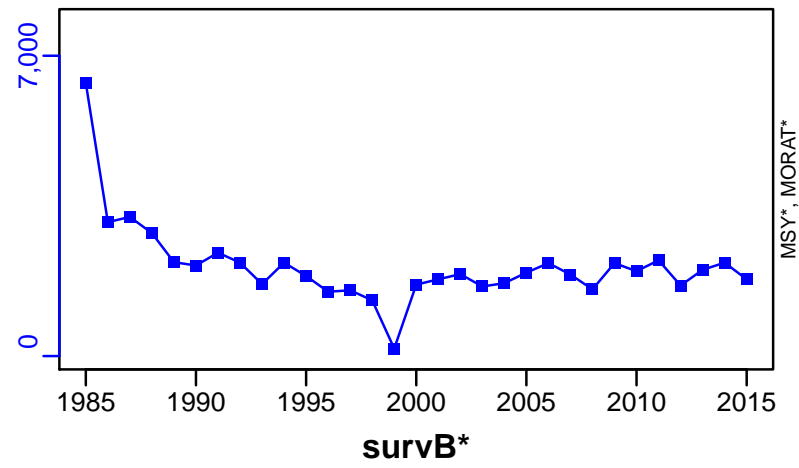
Recruits*



European pollack VIII and IXa [EPOLLVIII-IXa]

TL-MT, TC*, RecC* (1985–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

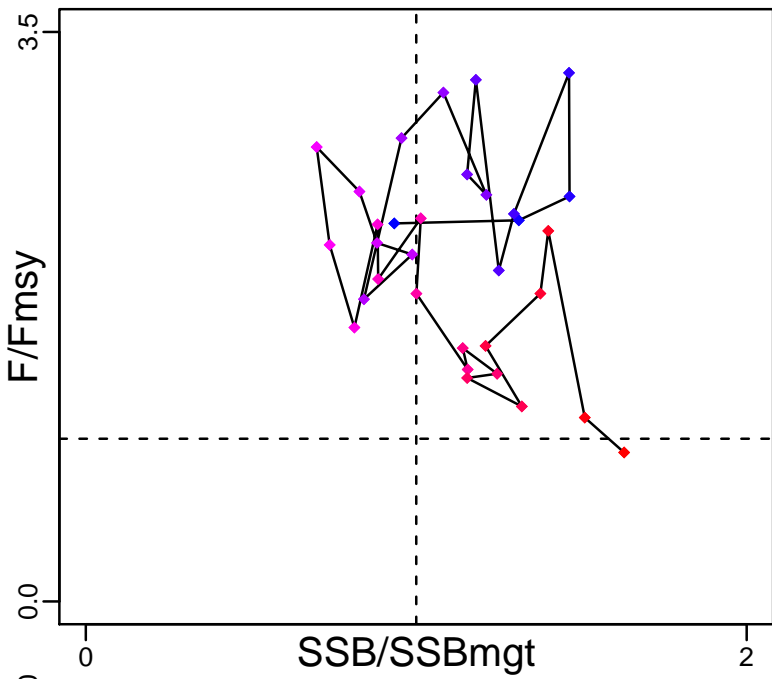
Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEG8c9a-1986-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.193
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	4600
Fmgt	Fmgt-1/yr	2018	0.193
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	3300
Flim	Flim-1/yr	2018	0.57
ERlim	-	-	-

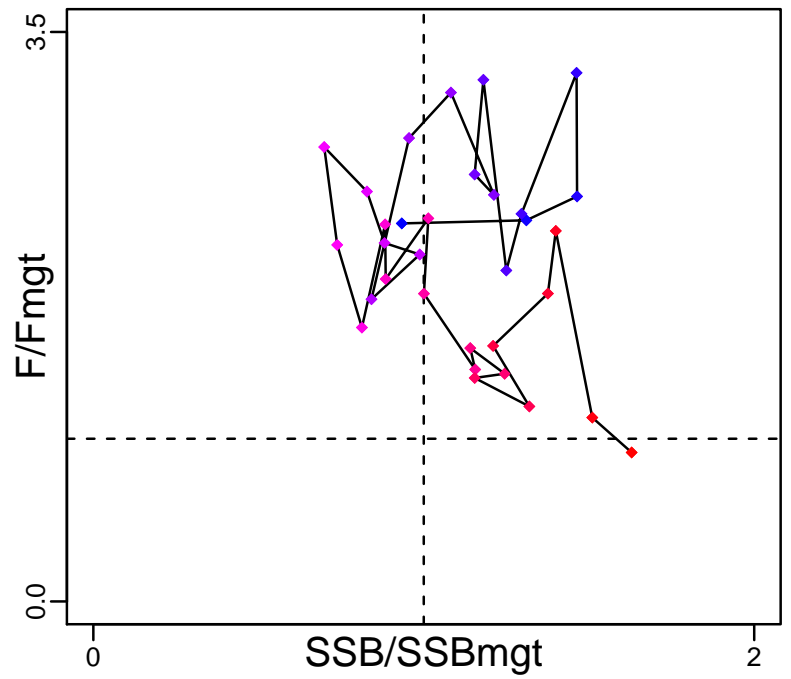
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	8490	Both	-
SSB	SSB-MT	2018	7490	Both	-
TN	-	-	-	-	-
R	R-E00	2018	53,600,000	-	0
F	F-1/yr	2018	0.177	-	2 to 4
ER	ER-calc-ratio	2018	0.138	-	-
TC	TC-MT	2018	1170		
TL	TL-MT	2018	926		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.916		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.629		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.916		
ER/ERmgt	-	-	-		

Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

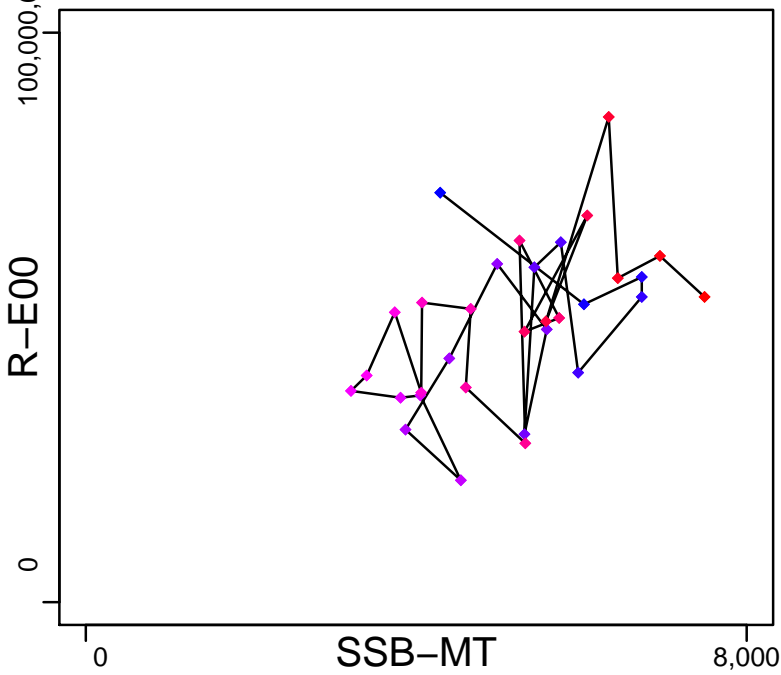
Kobe MSYpref (1986–2018–ICESIMP2018)



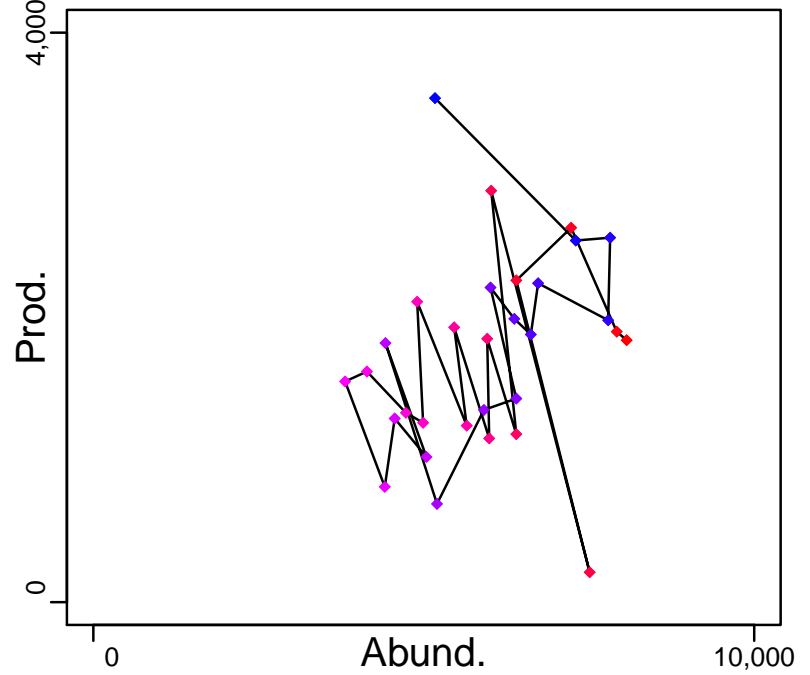
Kobe MGTpref (1986–2018–ICESIMP2018)



Spawner Recruit (1986–2018–ICESIMP2018)



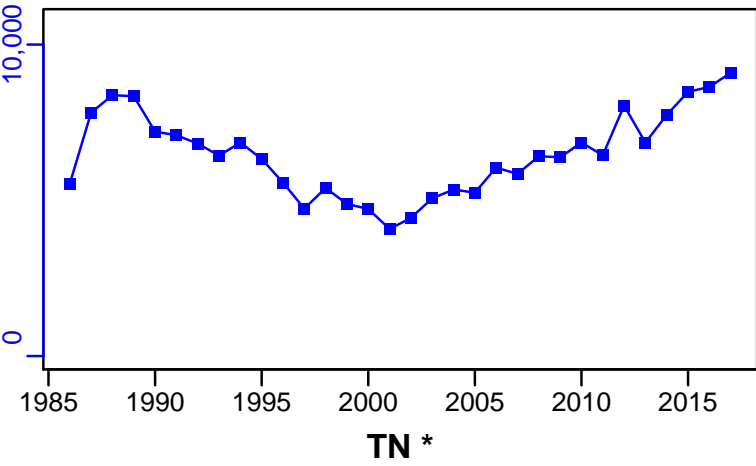
Production (1986–2018–ICESIMP2018)



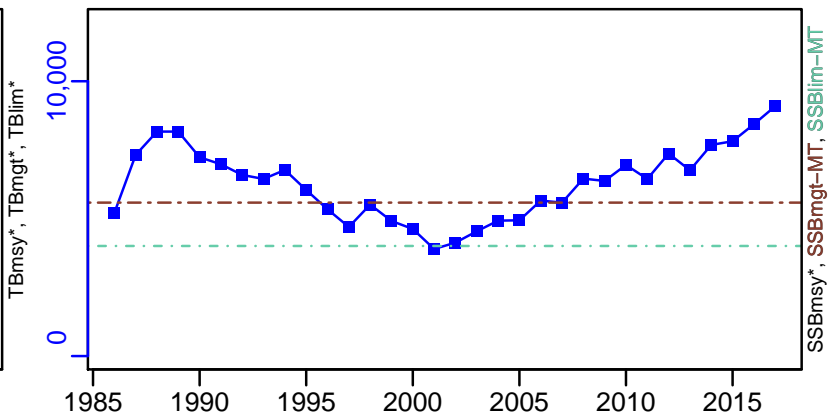
◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

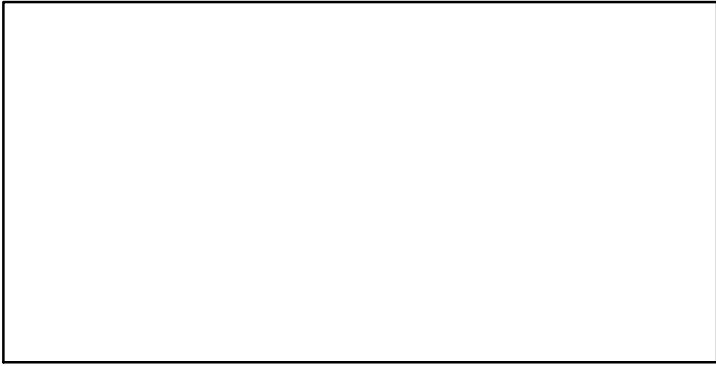
TB-MT (1986–2018–ICESIMP2018)



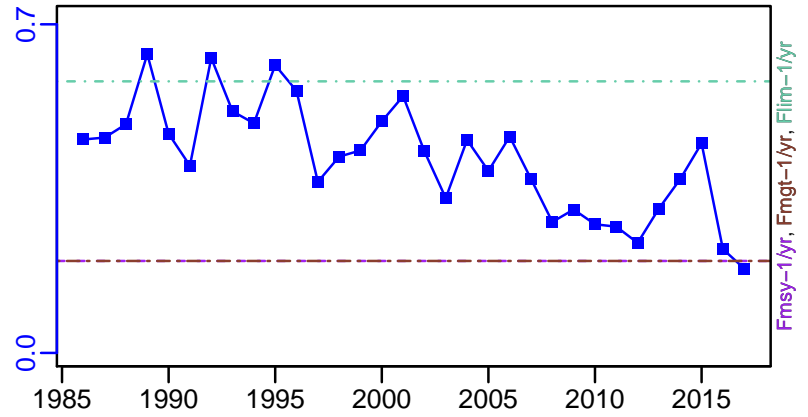
SSB-MT (1986–2018–ICESIMP2018)



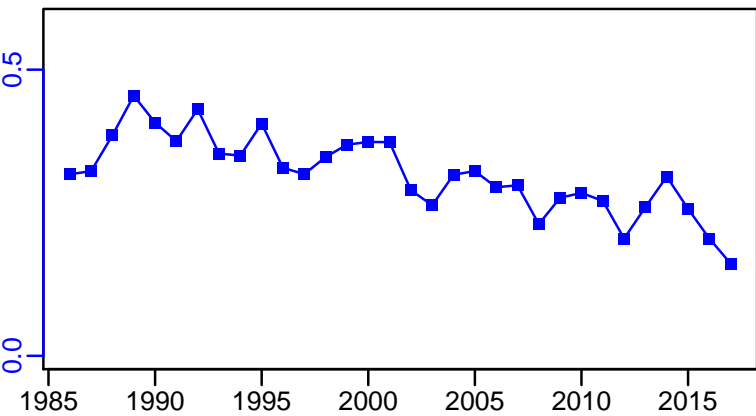
TN *



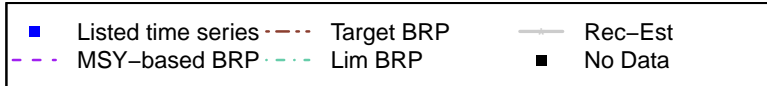
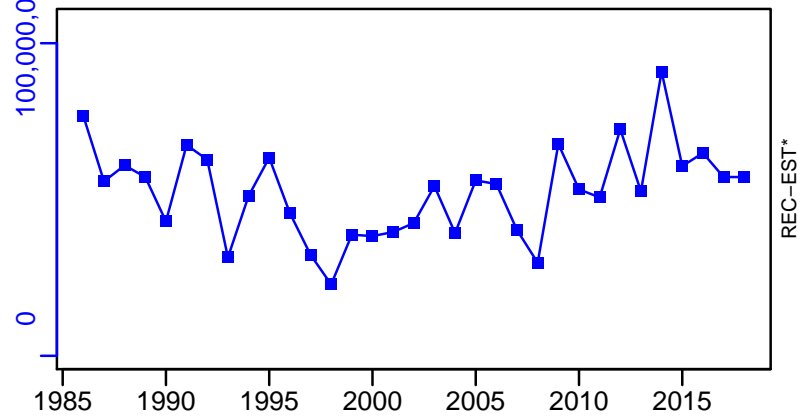
F-1/yr (1986–2018–ICESIMP2018)



ER-calc-ratio (1986–2018–ICESIMP2018)

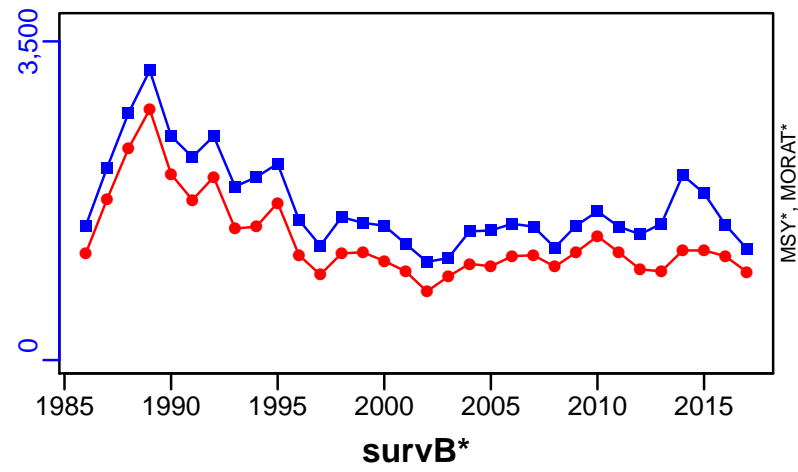


R-E00 (1986–2018–ICESIMP2018)

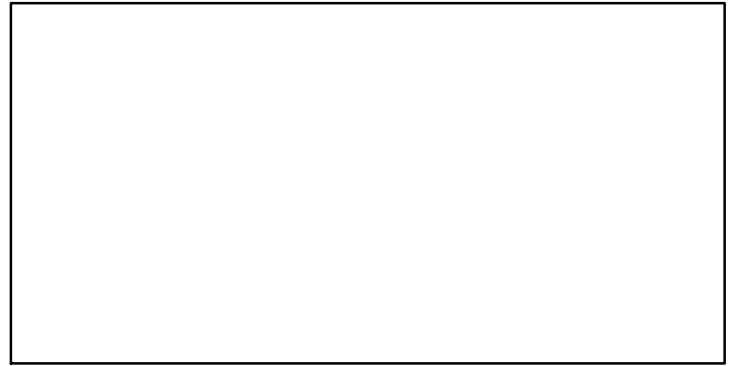


Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

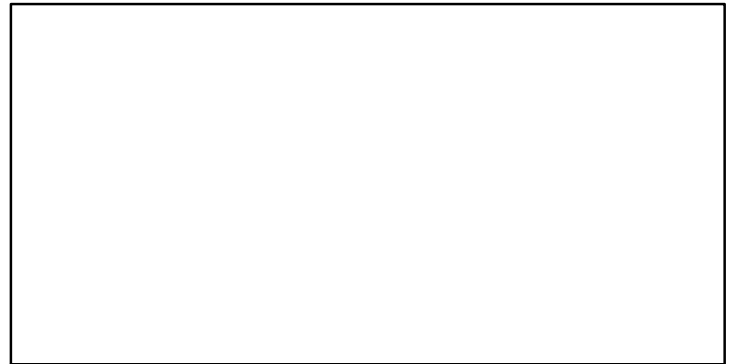
TC-MT, TL-MT, RecC* (1986-2018-ICESIMP2018)



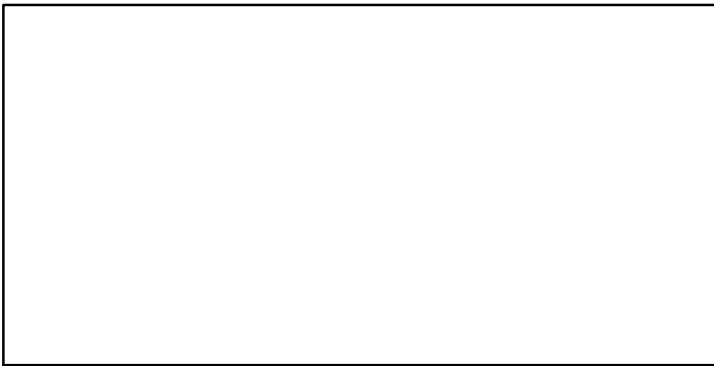
TAC*, Cpair*, Cadv*



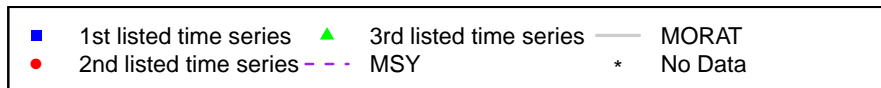
CPUE*



EFFORT*



CdivMSY*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

Metadata	
Scientific Name	Phycis blennoides
Current Assess ID	WGDEEP-GFORKNEATL-2005-2017-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	2020		
TL	TL-MT	2017	1500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

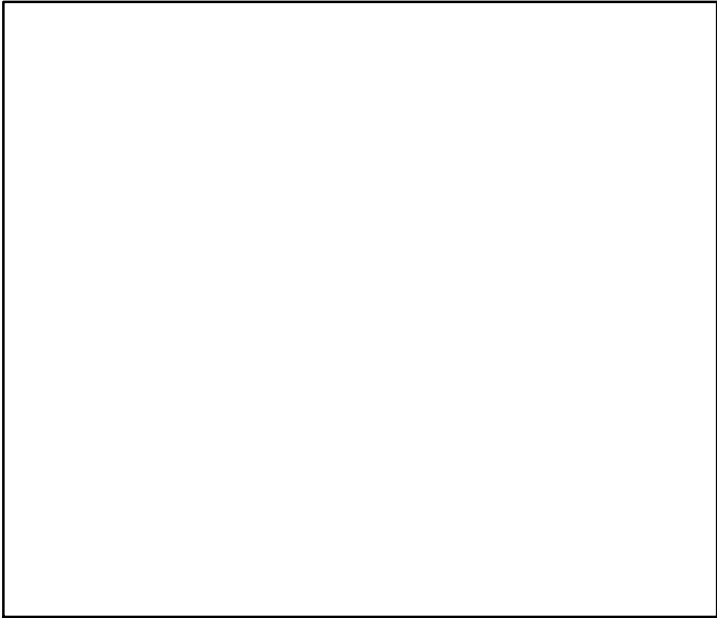
Kobe MSY*



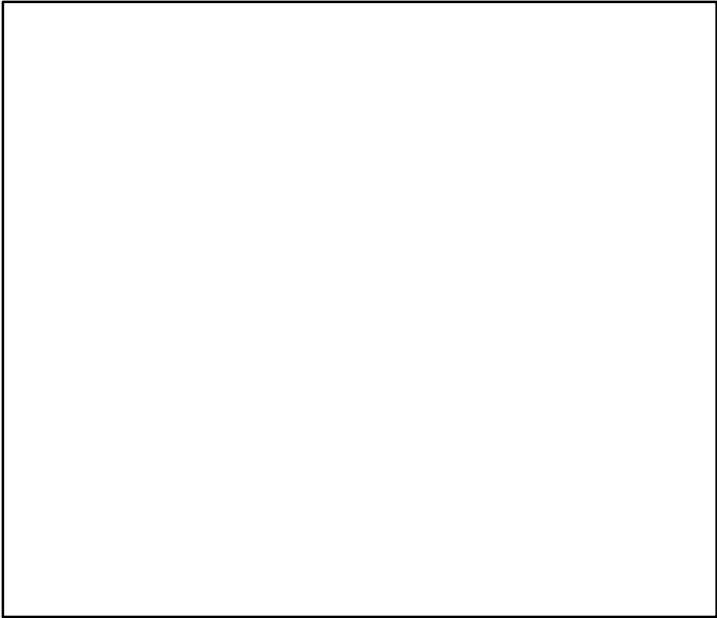
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Greater forkbeard Northeast Atlantic [GFORKNEATL]

TB*



SSB*



TN *



F*



ER*

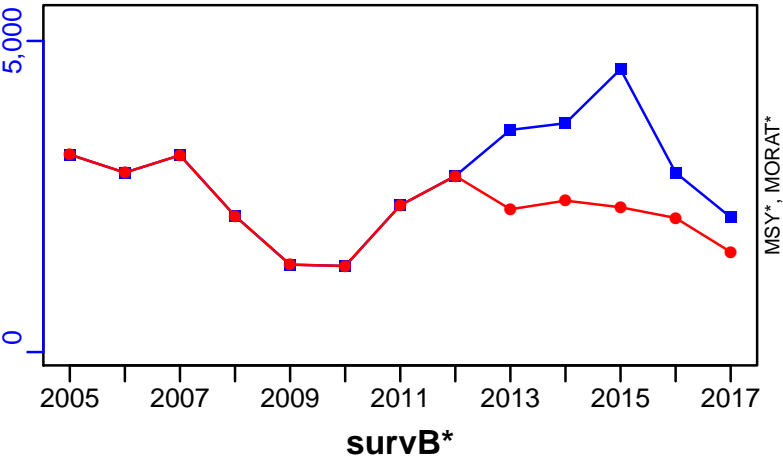


Recruits*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

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



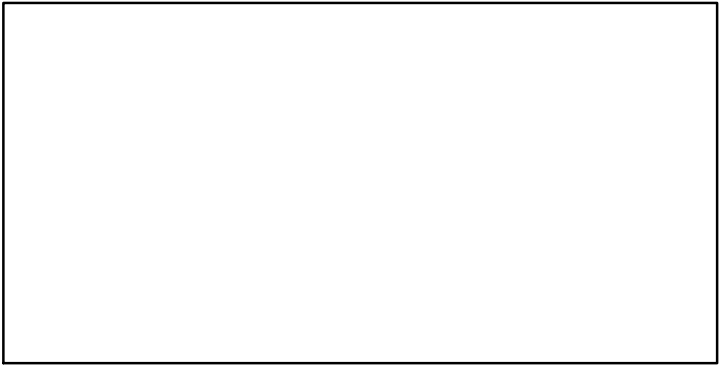
TAC*, Cpair*, Cadv*



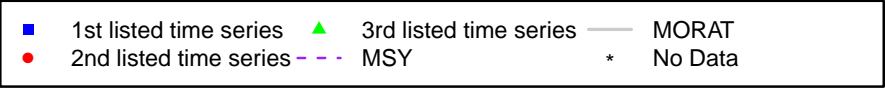
CPUE*



EFFORT*



CdivMSY*



Grey gurnard IIIa, VIId and North Sea [GGURNIIIa-IV-VIId]

Metadata	
Scientific Name	Eutrigla gurnardus
Current Assess ID	WGNSSK-GGURNIIIa-IV-VIId-1983-2017-ICESIMP2018
Area	IIIa, VIId and 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	2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	17,100		
TL	TL-MT	2017	3450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

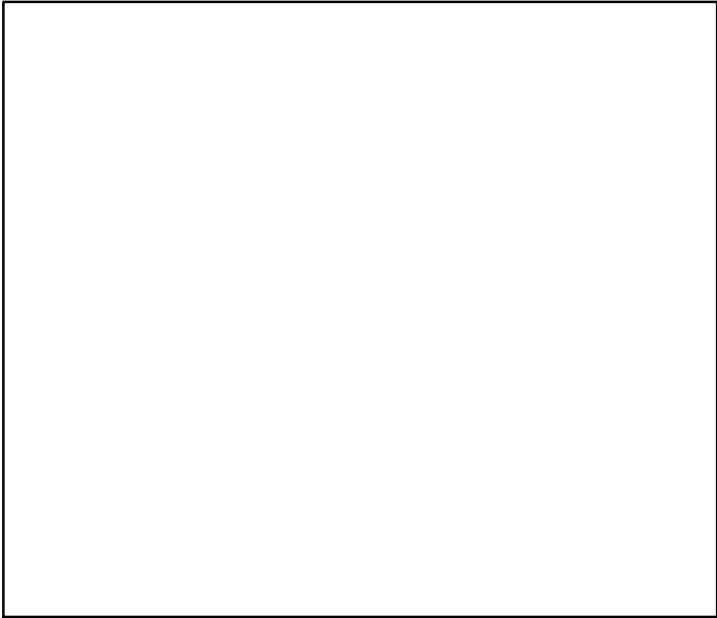
Kobe MSY*



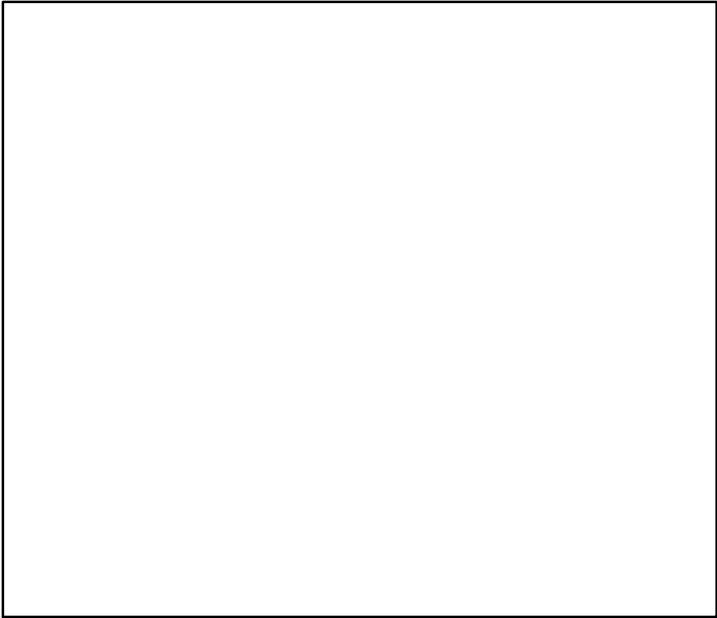
Kobe MGT*



Spawner Recruit*



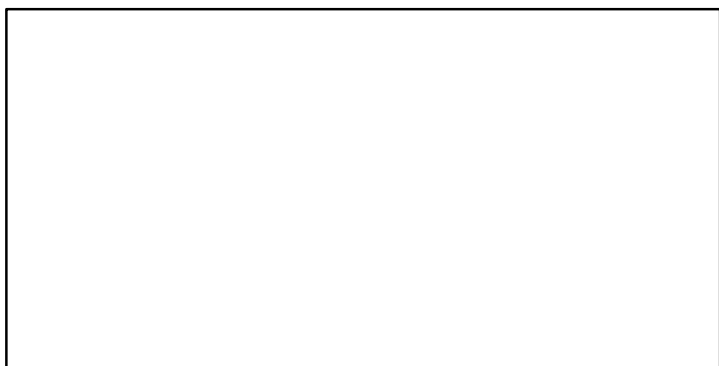
Production*



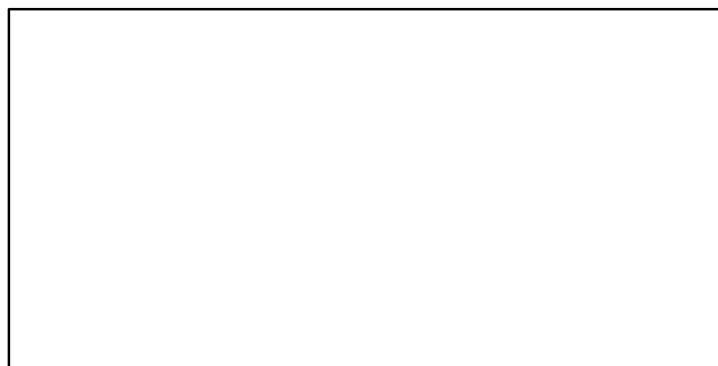
◆ Start Year ◆ End Year * No Data

Grey gurnard IIIa, VIId and North Sea [GGURNIIIa–IV–VIId]

TB*



SSB*



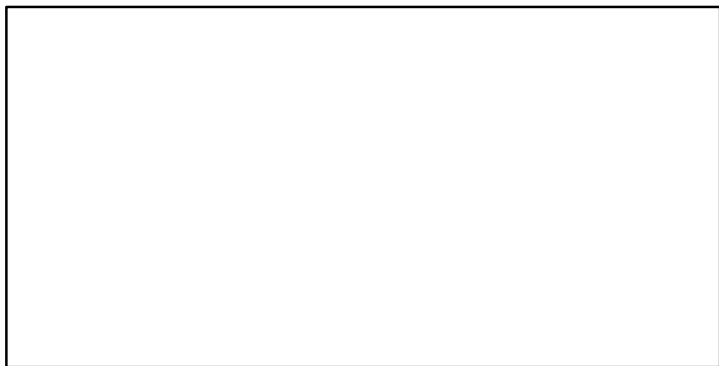
TN *



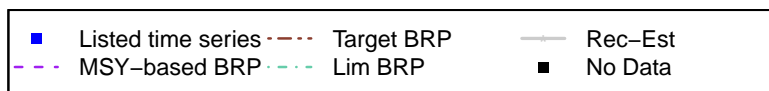
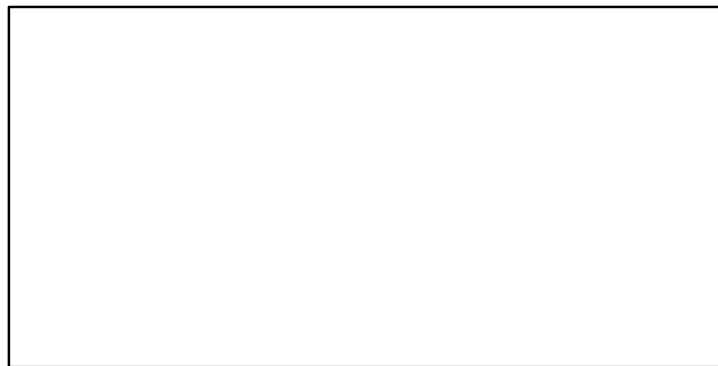
F*



ER*

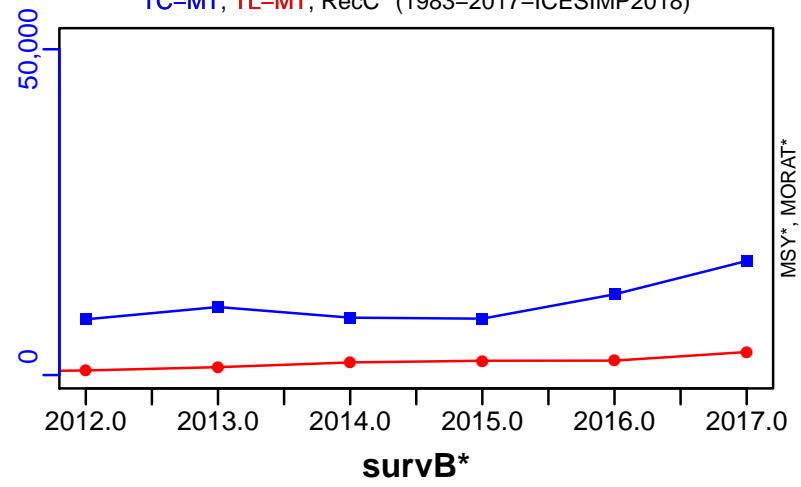


Recruits*

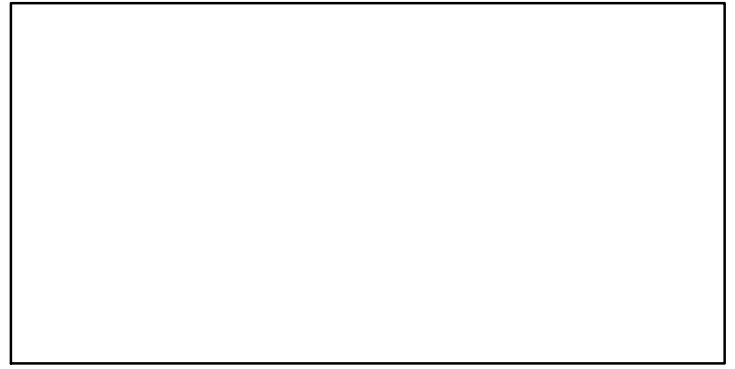


Grey gurnard IIIa, VIId and North Sea [GGURNIIIa-IV-VIId]

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



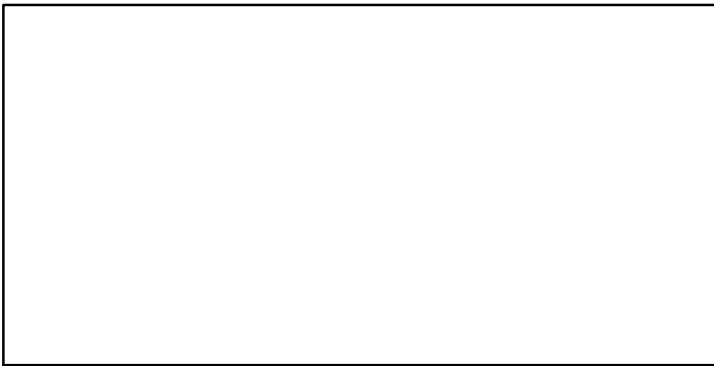
TAC*, Cpair*, Cadv*



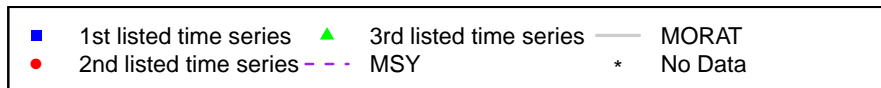
CPUE*



EFFORT*



CdivMSY*



Greenland halibut V-VI-XII-XIV [GHALV-VI-XII-XIV]

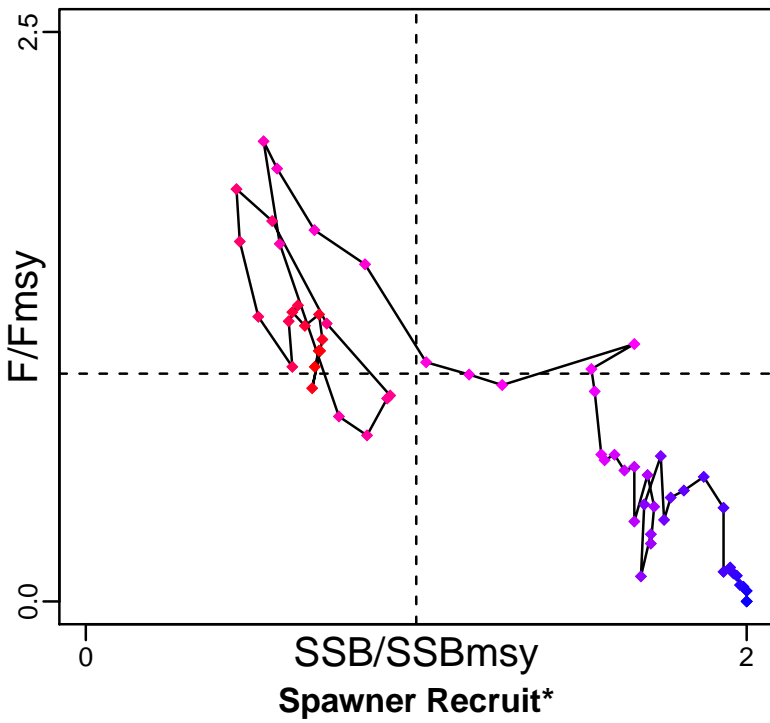
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NWWG-GHALV-VI-XII-XIV-1960-2018-ICESIMP2018
Area	V-VI-XII-XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2017, 2018

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

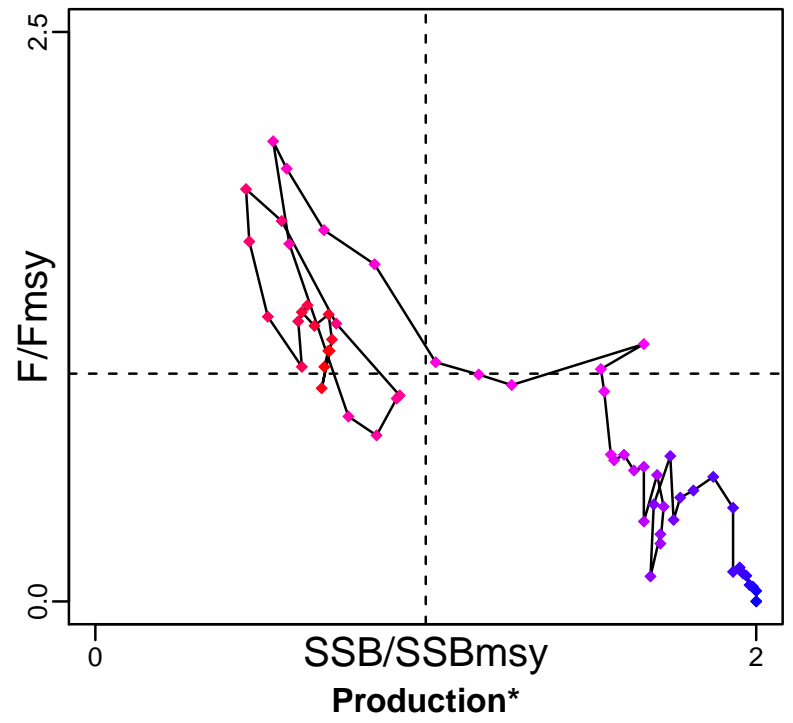
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	23,500,000		
TL	TL-MT	2017	25,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2018	0.713		
F/Fmsy	FdivFmsy-dimensionless	2018	1.03		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Greenland halibut V–VI–XII–XIV [GHALV–VI–XII–XIV]

Kobe MSYpref (1960–2018–ICESIMP2018)



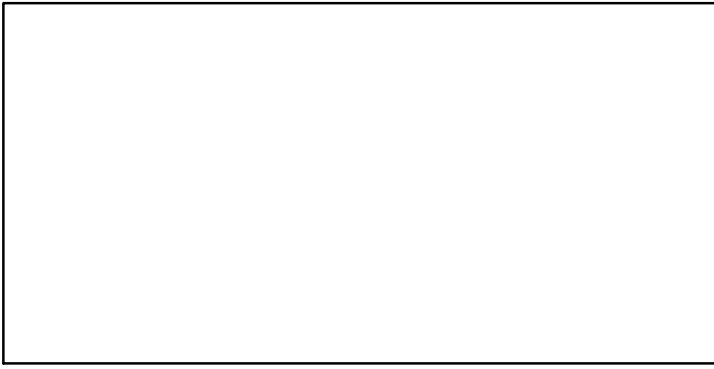
Kobe MGTpref (1960–2018–ICESIMP2018)



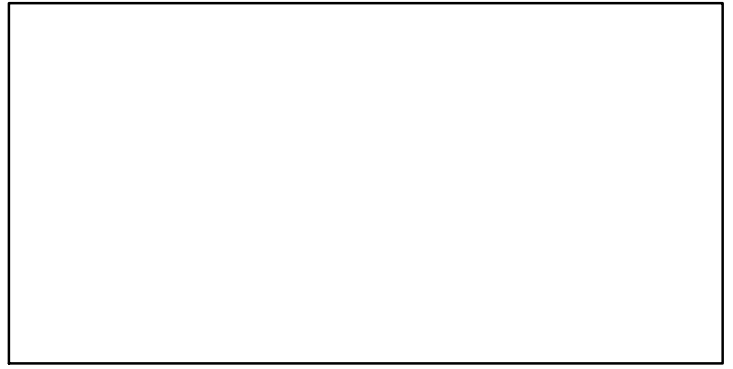
◆ Start Year ◆ End Year * No Data

Greenland halibut V–VI–XII–XIV [GHALV–VI–XII–XIV]

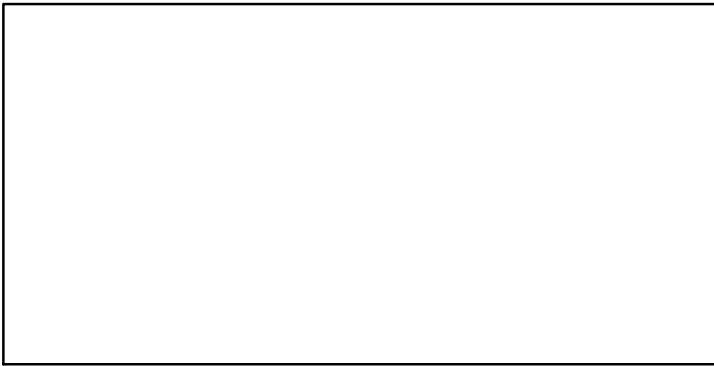
TB*



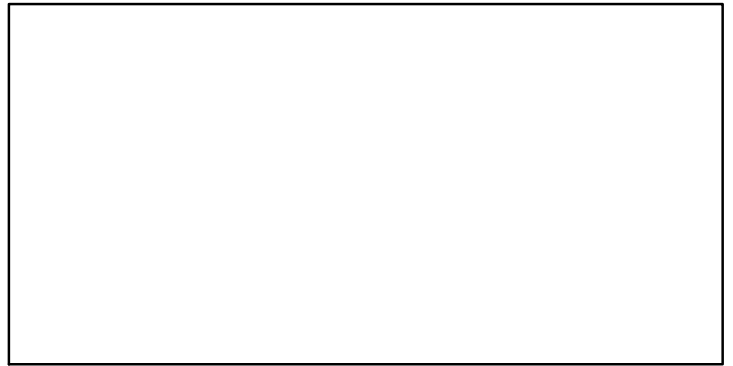
SSB*



TN *



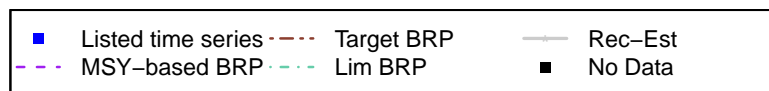
F*



ER*



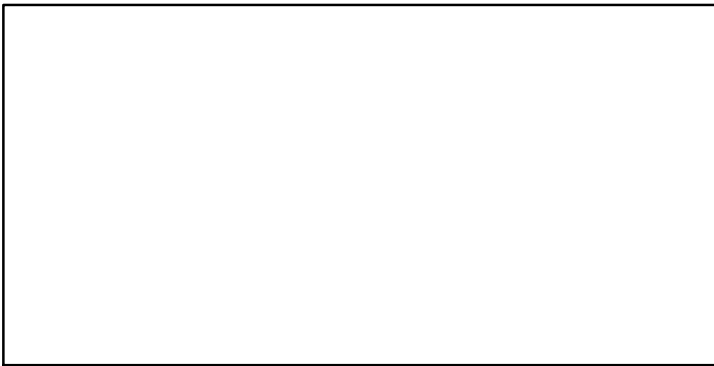
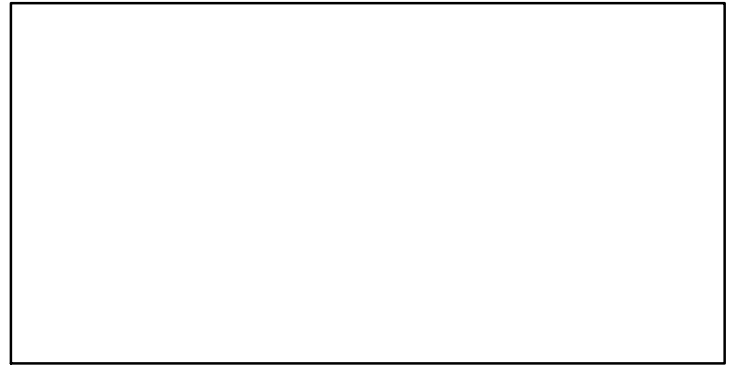
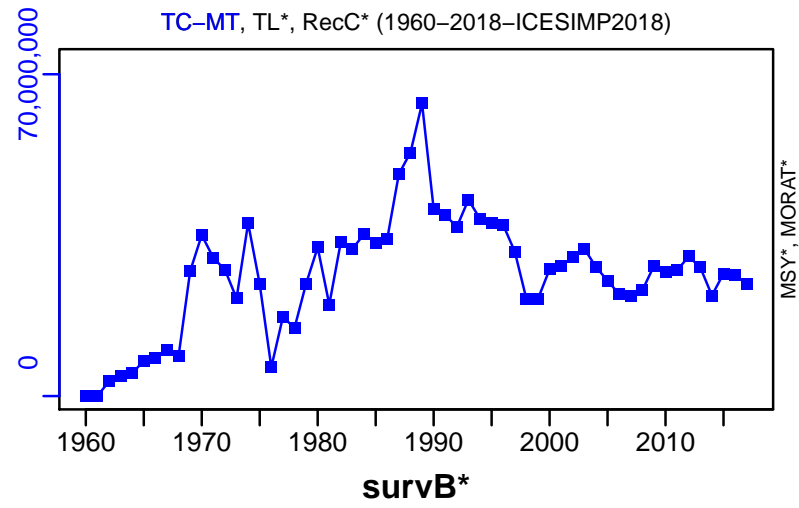
Recruits*



Greenland halibut V–VI–XII–XIV [GHALV–VI–XII–XIV]

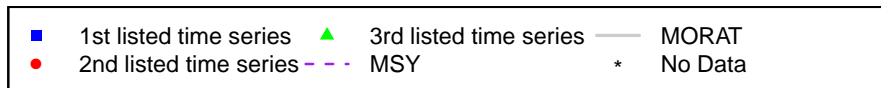
TC–MT, TL*, RecC* (1960–2018–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Golden Redfish V-VI-XII-XIV [GOLDREDV-VI-XII-XIV]

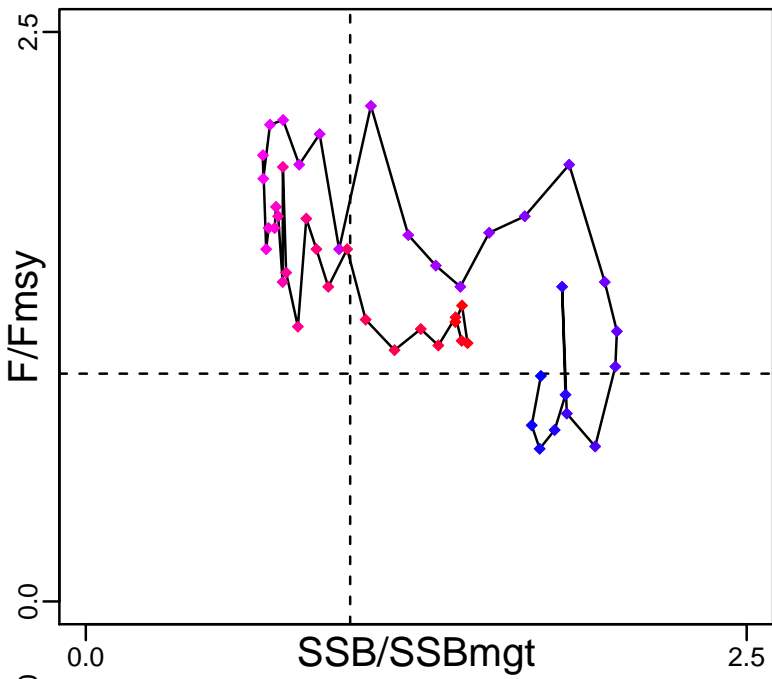
Metadata	
Scientific Name	Sebastes norvegicus
Current Assess ID	NWWG-GOLDREDV-VI-XII-XIV-1966-2018-ICESIMP2018
Area	V-VI-XII-XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2014, 2017, 2018, 2015, 2016

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

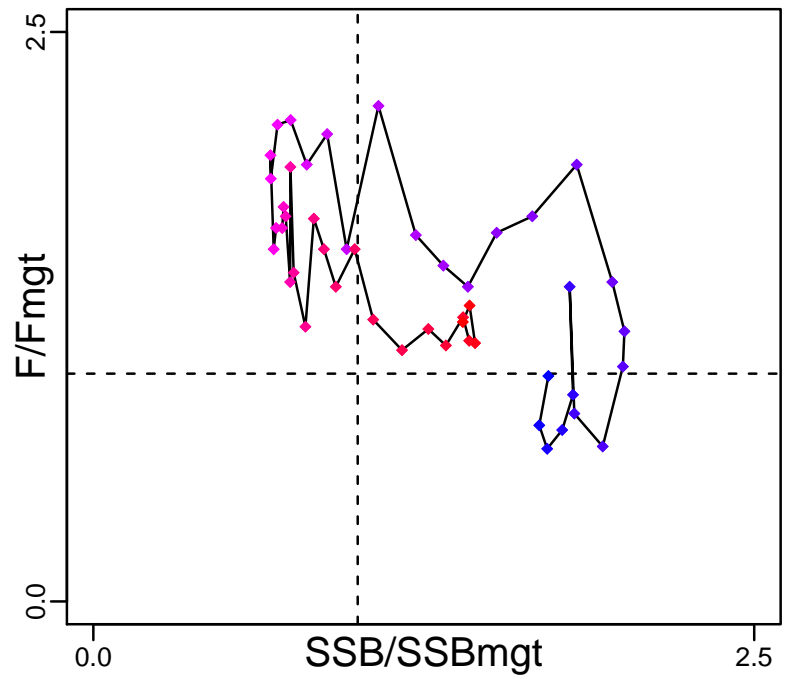
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	434,000	Both	-
SSB	SSB-MT	2018	296,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.5×10^7	-	5
F	F-1/yr	2018	0.119	-	9 to 19
ER	ER-calc-ratio	2018	0.122	-	-
TC	TC-MT	2018	56,000		
TL	TL-MT	2018	56,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy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

Golden Redfish V-VI-XII-XIV [GOLDREDV-VI-XII-XIV]

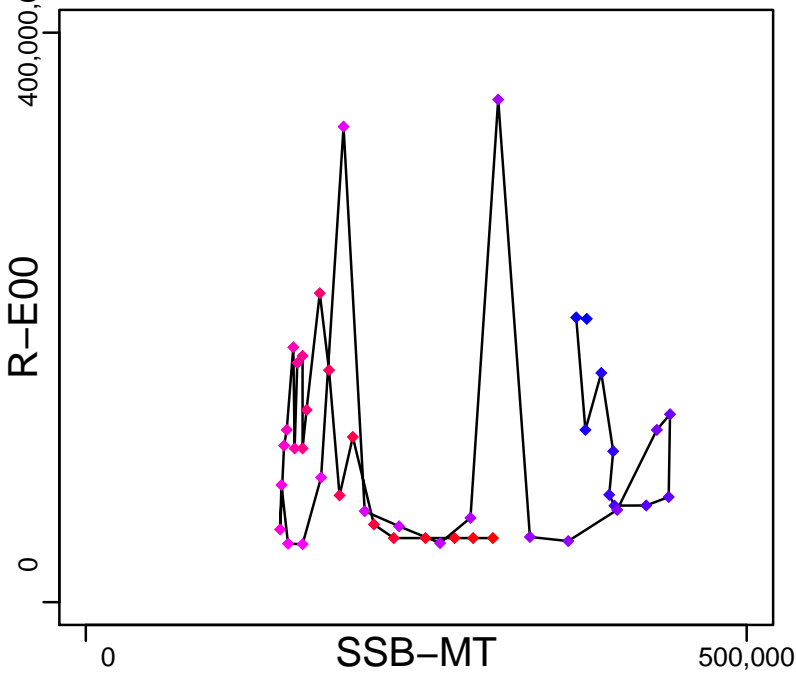
Kobe MSYpref (1966-2018-ICESIMP2018)



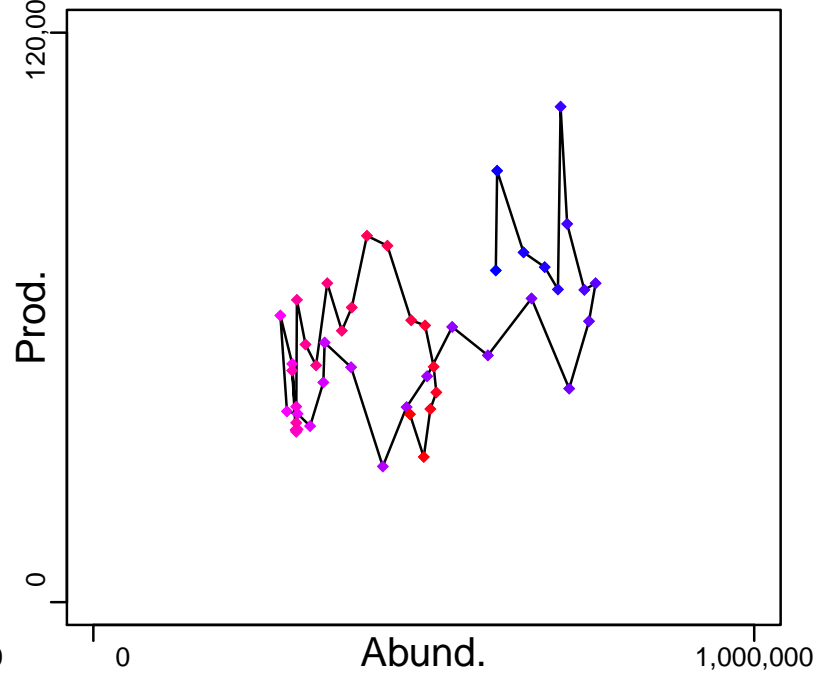
Kobe MGTpref (1966-2018-ICESIMP2018)



Spawner Recruit (1966-2018-ICESIMP2018)



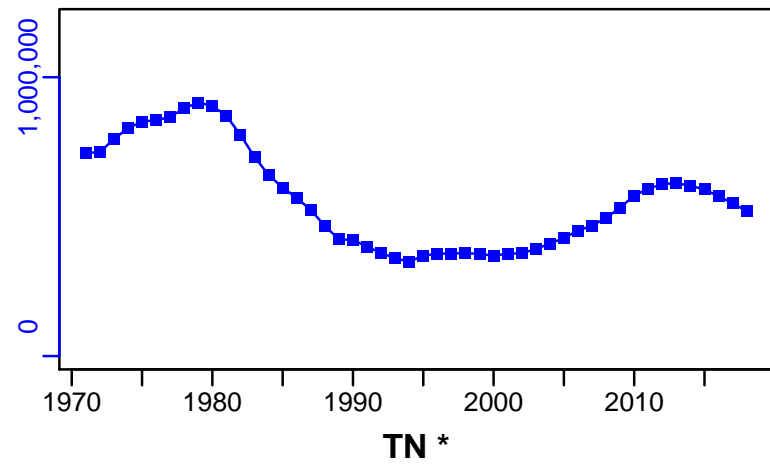
Production (1966-2018-ICESIMP2018)



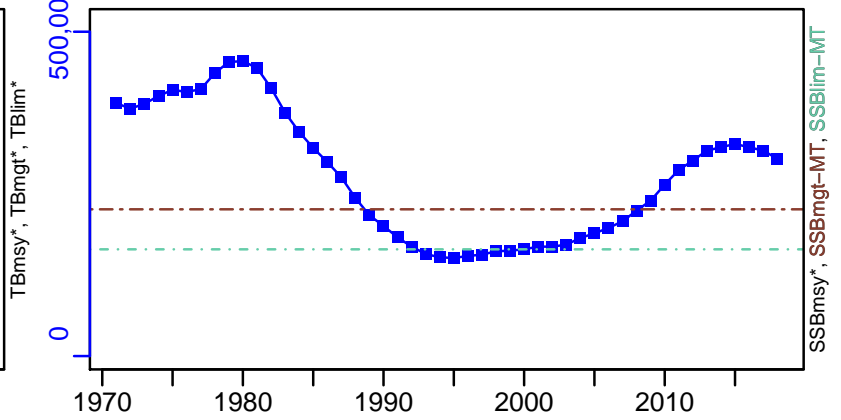
◆ Start Year ◆ End Year * No Data

Golden Redfish V-VI-XII-XIV [GOLDREDV-VI-XII-XIV]

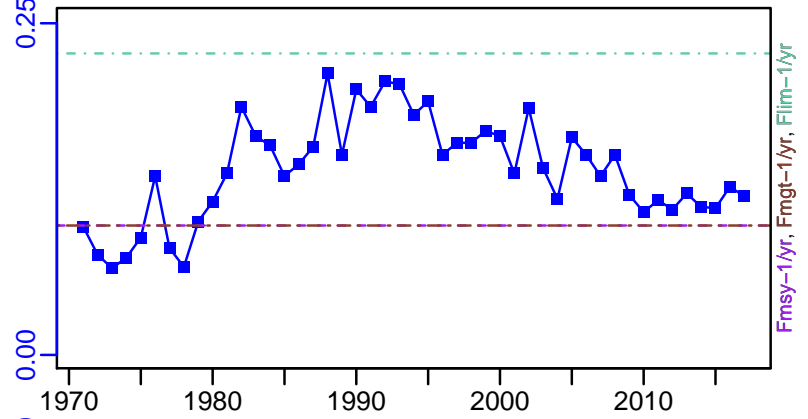
TB-MT (1966-2018-ICESIMP2018)



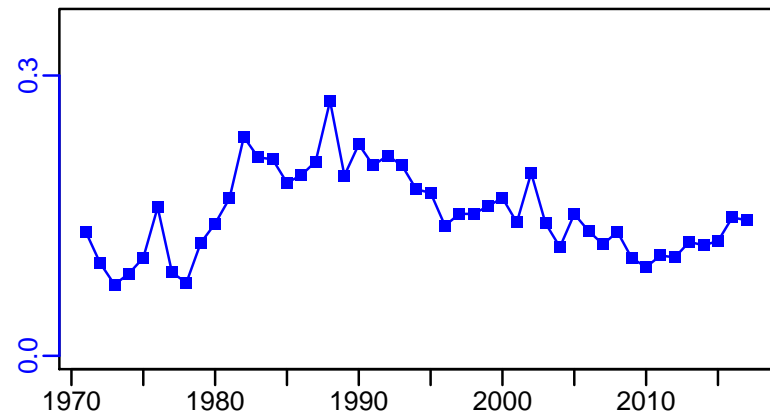
SSB-MT (1966-2018-ICESIMP2018)



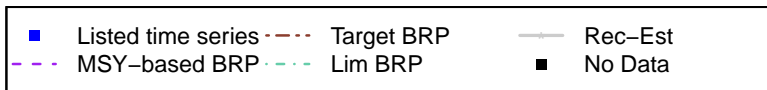
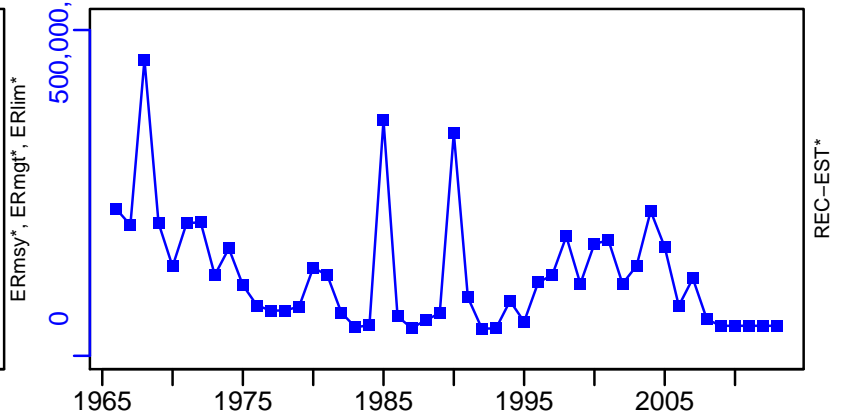
F-1/yr (1966-2018-ICESIMP2018)



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



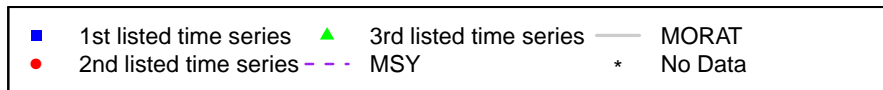
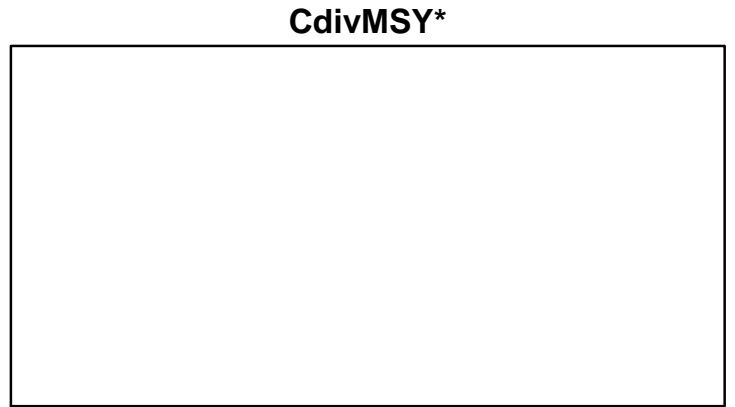
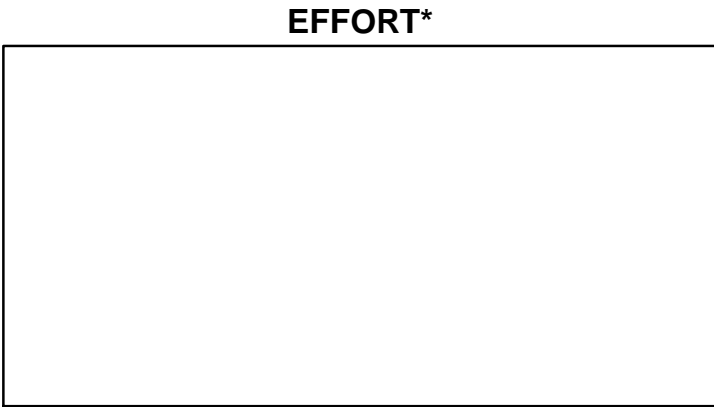
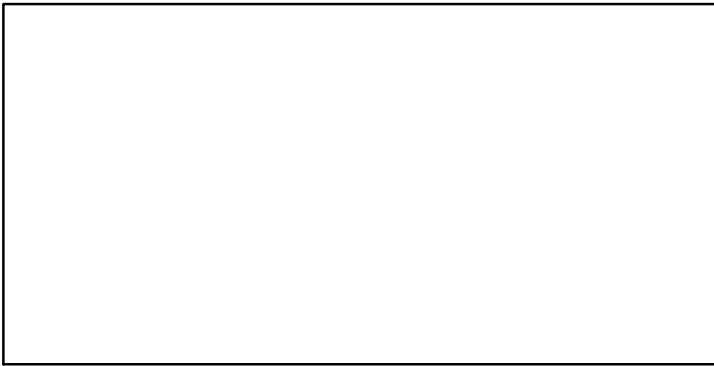
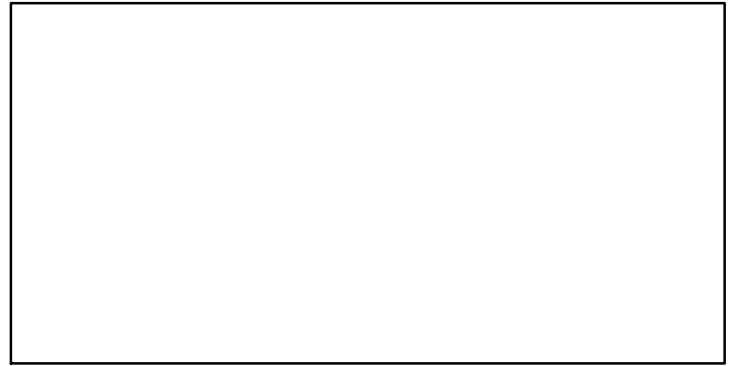
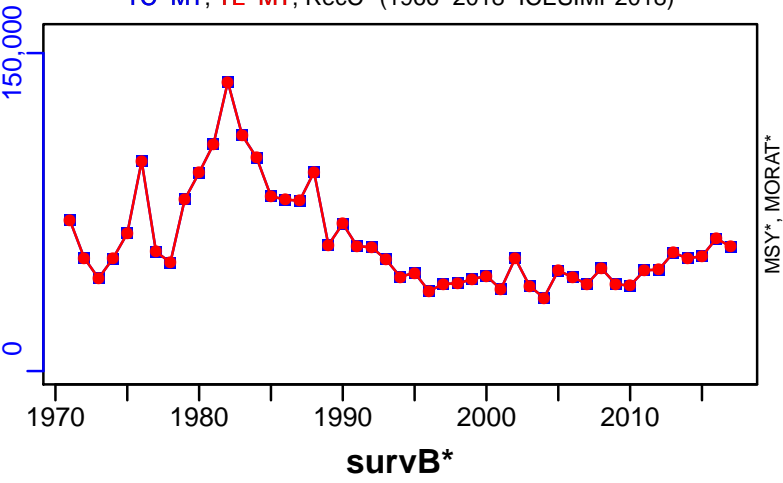
R-E00 (1966-2018-ICESIMP2018)



Golden Redfish V-VI-XII-XIV [GOLDREDV-VI-XII-XIV]

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

TAC*, Cpair*, Cadv*



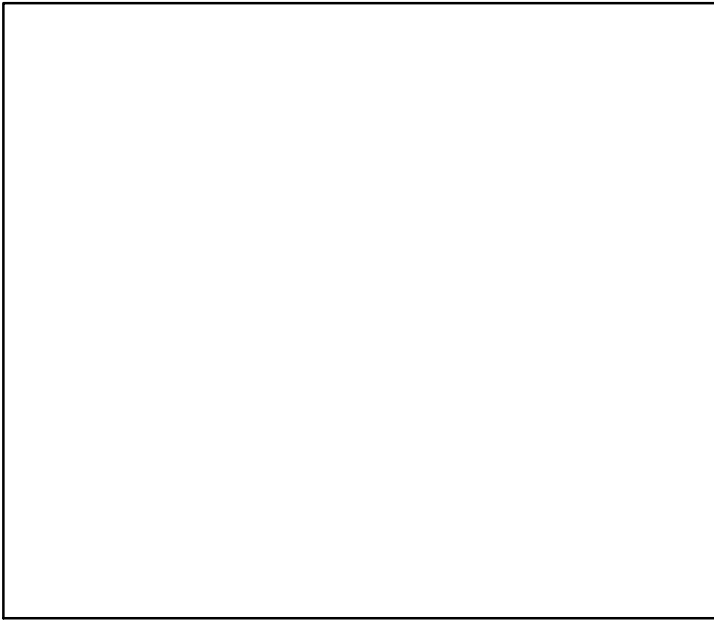
Greater silver smelt ICES I-II-IIIa-IV [GSSMELTI-II-IIIa-IV]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTI-II-IIIa-IV-1988-2016-ICESIMP2018
Area	ICES I-II-IIIa-IV
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

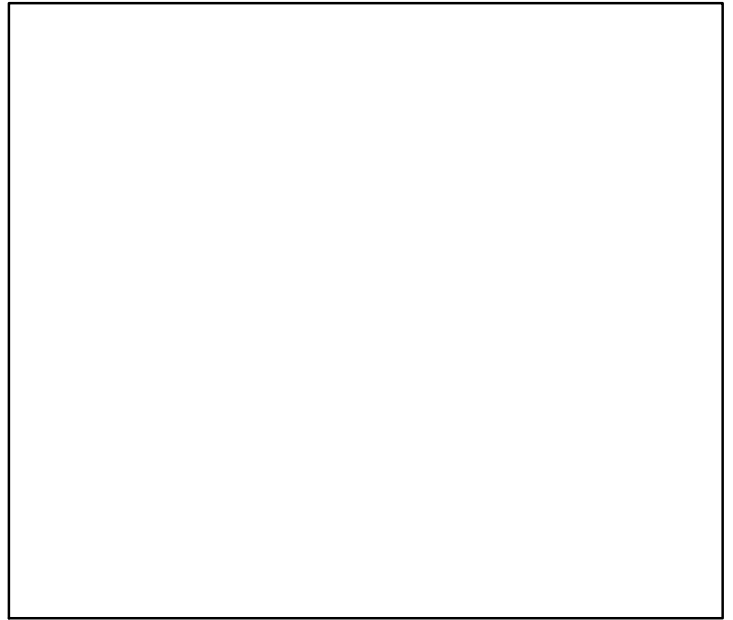
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	2016	18,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

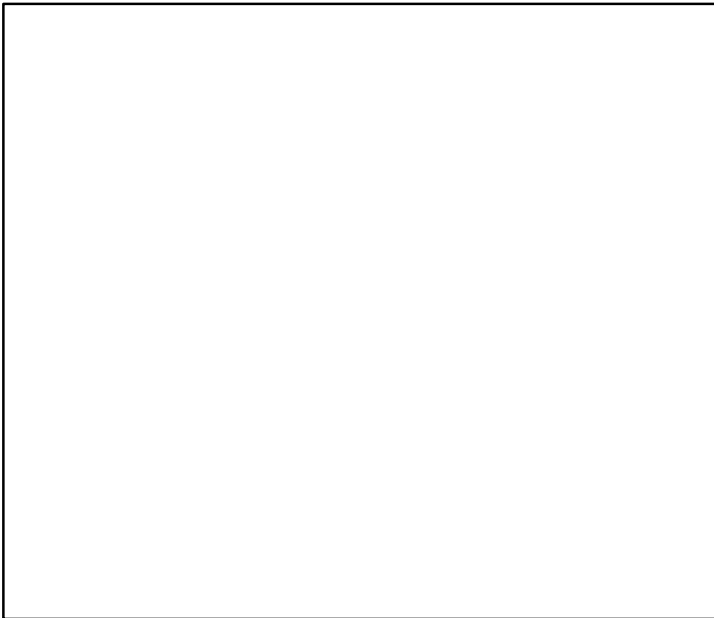
Kobe MSY*



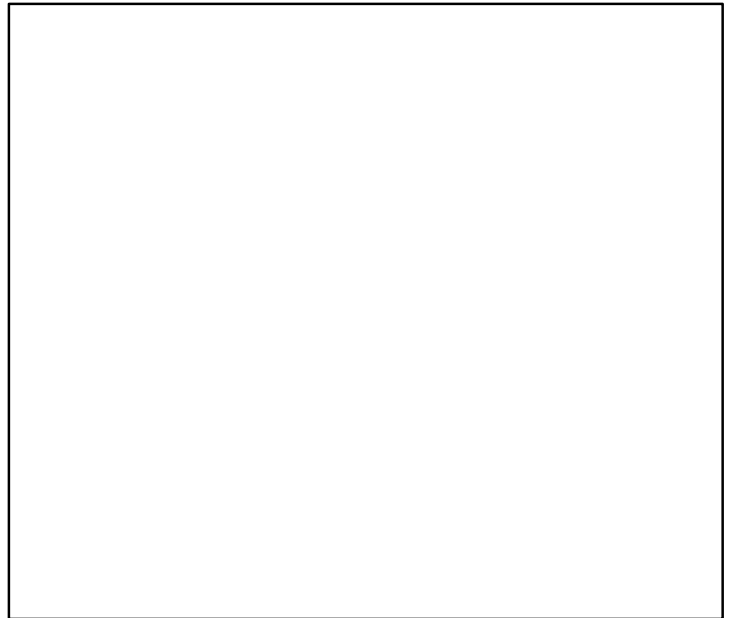
Kobe MGT*



Spawner Recruit*



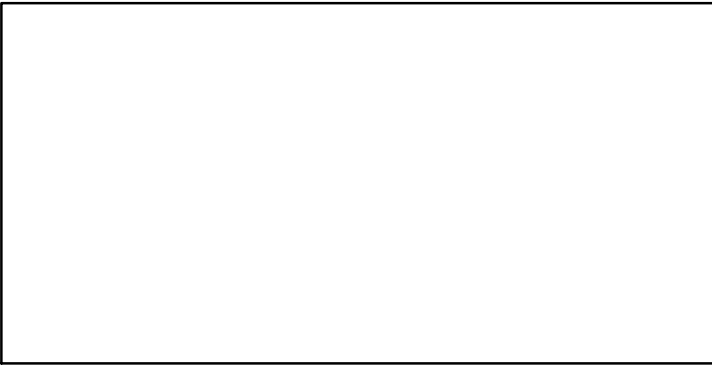
Production*



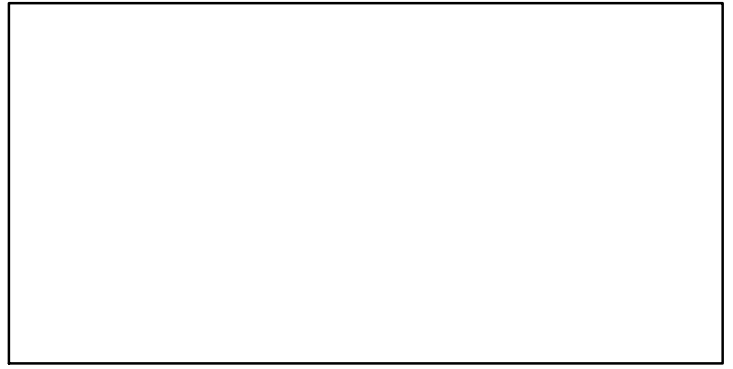
◆ Start Year ◆ End Year * No Data

Greater silver smelt ICES I-II-IIIa-IV [GSSMELTI-II-IIIa-IV]

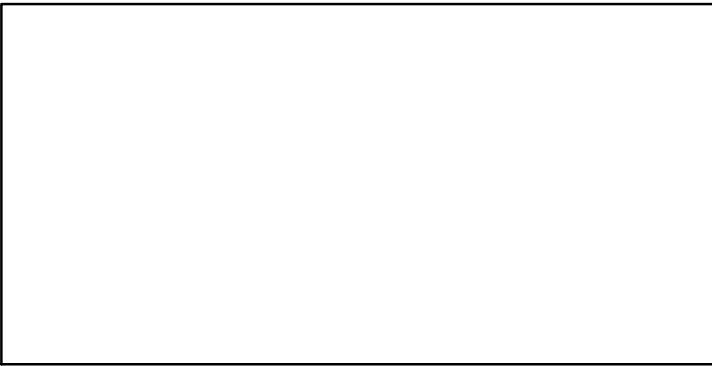
TB*



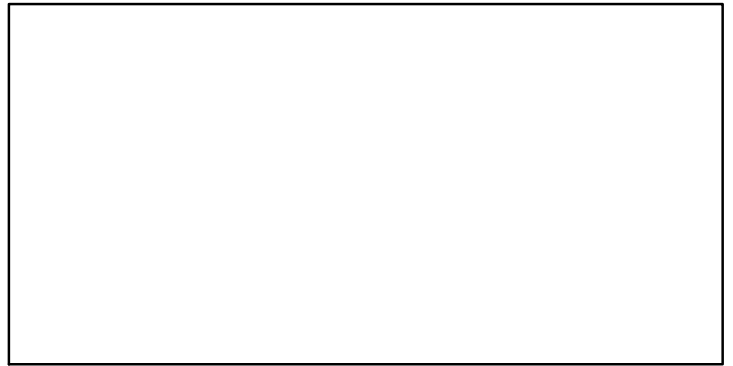
SSB*



TN *



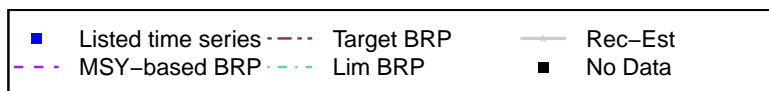
F*



ER*



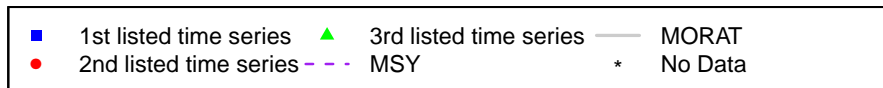
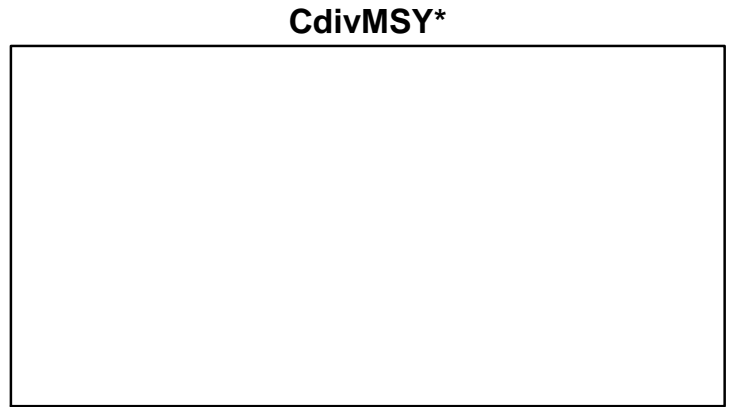
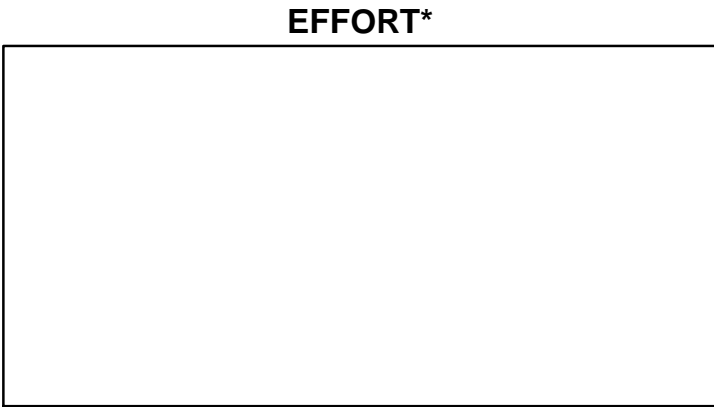
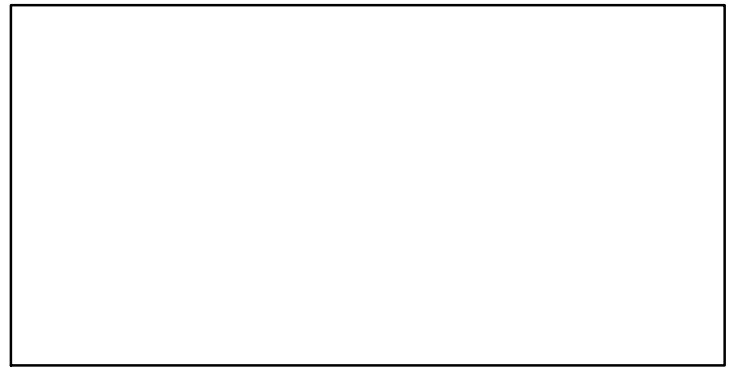
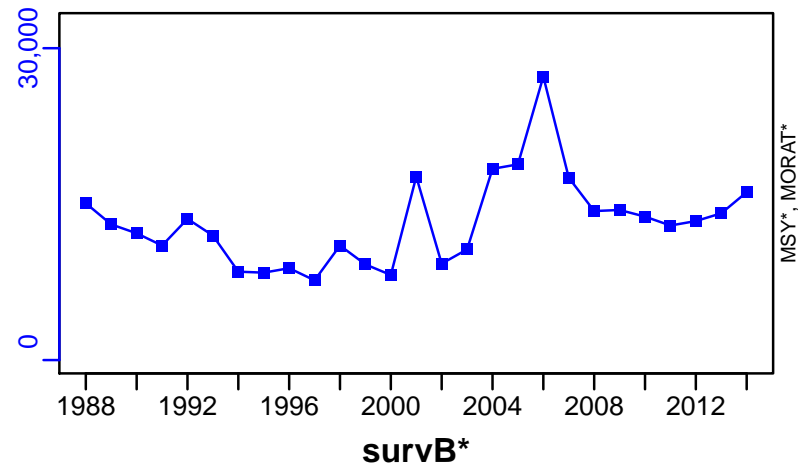
Recruits*



Greater silver smelt ICES I-II-IIIa-IV [GSSMELTI-II-IIIa-IV]

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

TAC*, Cpair*, Cadv*



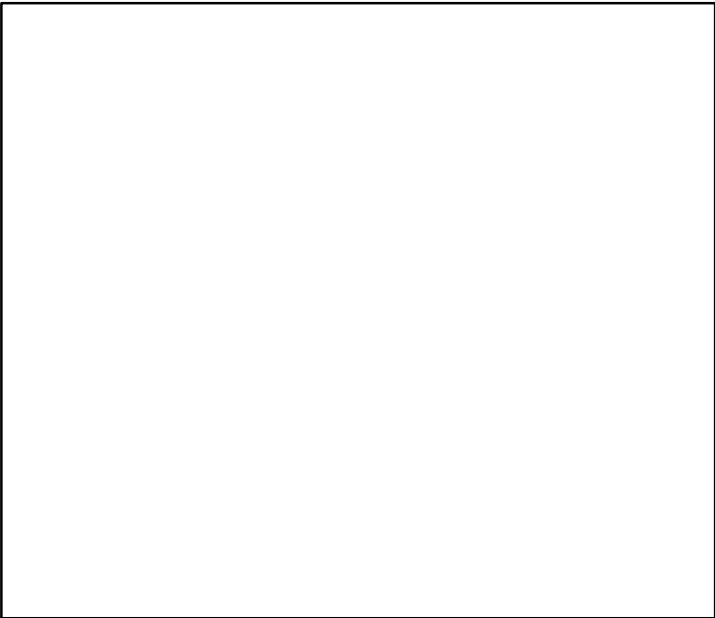
Greater silver smelt ICES VIb-VII-VIII-IX-X-XII [GSSMELTVIb-VII-VIII-IX-X-XII]

Metadata	
Scientific Name	Argentina silus
Current Assess ID	WGDEEP-GSSMELTVIb-VII-VIII-IX-X-XII-1966-2016-ICESIMP2018
Area	ICES VIb-VII-VIII-IX-X-XII
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

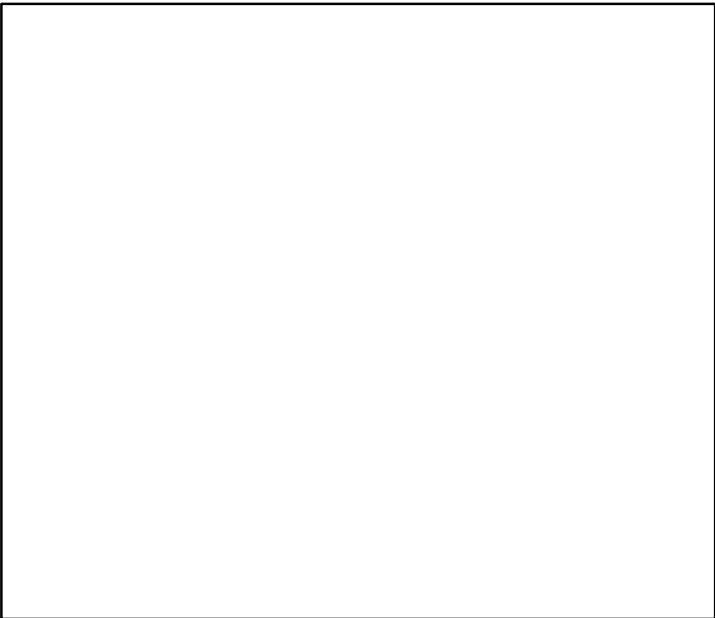
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

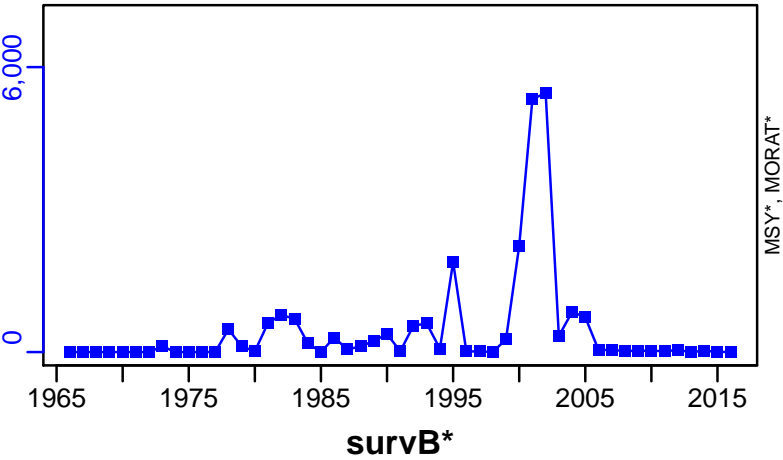


Recruits*



Greater silver smelt ICES VIb–VII–VIII–IX–X–XII [GSSMELTVIb–VII–VIII–IX–X–XII]

TL–MT, TC*, RecC* (1966–2016–ICESIMP2018)



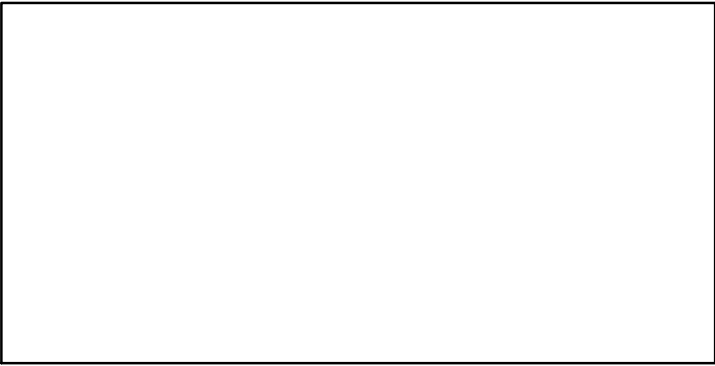
TAC*, Cpair*, Cadv*



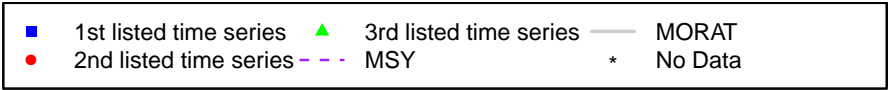
CPUE*



EFFORT*



CdivMSY*



Haddock Irish Sea [HADIS]

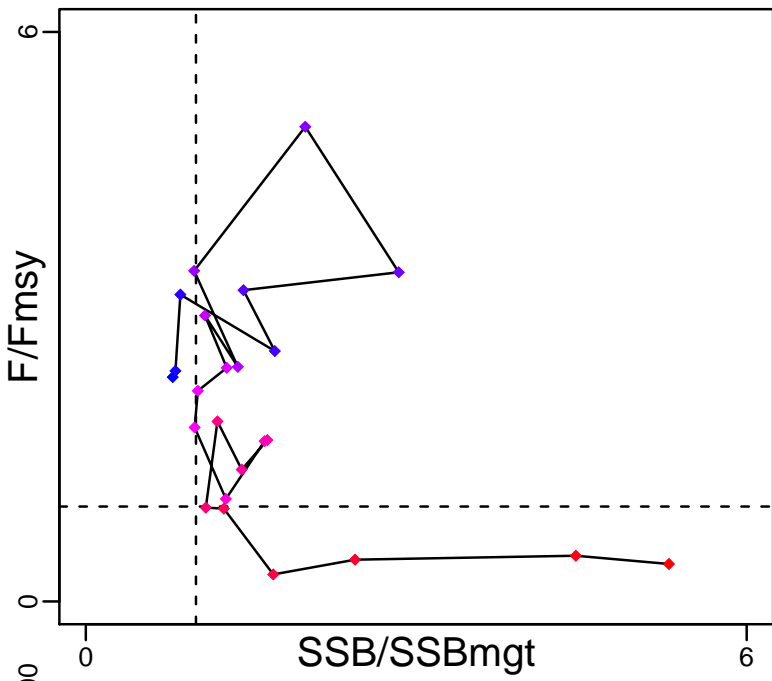
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADIS-1993-2017-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.27
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	2944
Fmgt	Fmgt-1/yr	2017	0.34
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	2300
Flim	Flim-1/yr	2017	0.47
ERlim	-	-	-

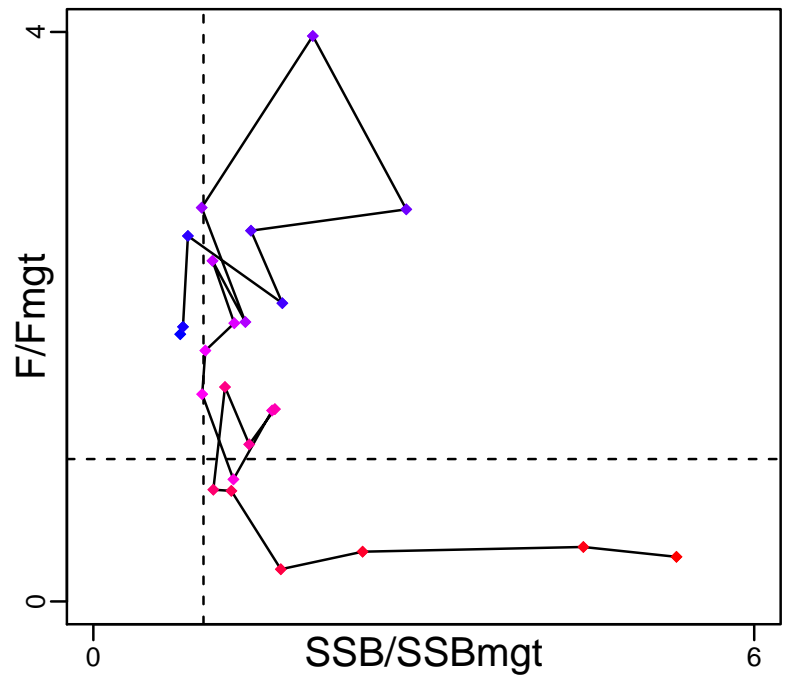
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	22,000	Both	-
SSB	SSB-MT	2017	19,900	Both	-
TN	-	-	-	-	-
R	R-E00	2017	3.38×10^8	-	0
F	F-1/yr	2017	0.106	-	-
ER	ER-calc-ratio	2017	0.059	-	-
TC	TC-MT	2017	1310		
TL	TL-MT	2017	1010		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.394		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	6.758		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.313		
ER/ERmgt	-	-	-		

Haddock Irish Sea [HADIS]

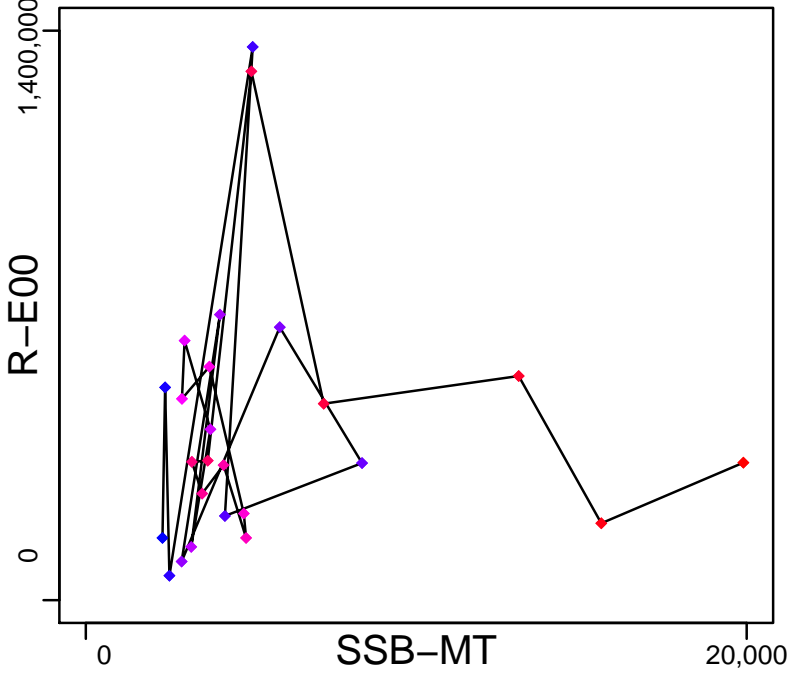
Kobe MSYpref (1993–2017–ICESIMP2018)



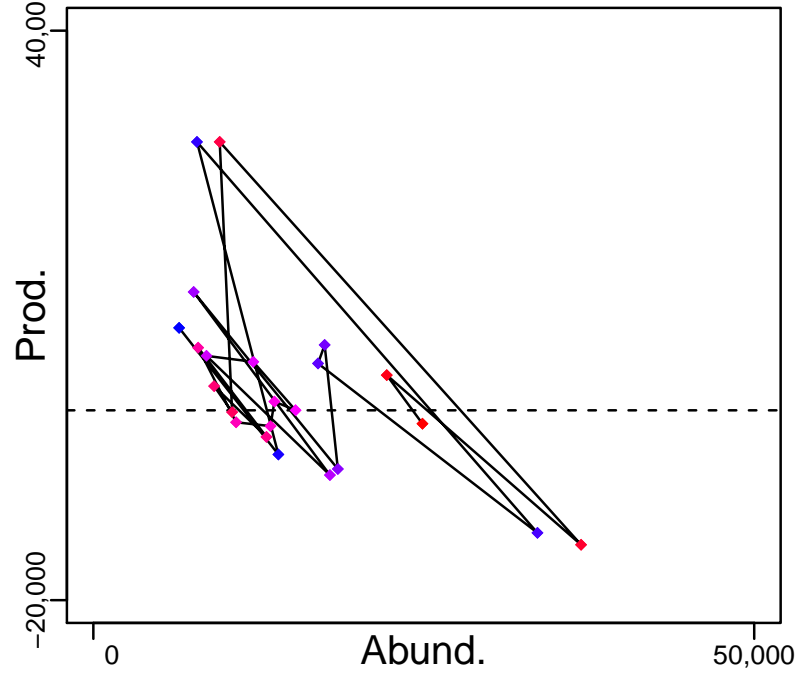
Kobe MGTpref (1993–2017–ICESIMP2018)



Spawner Recruit (1993–2017–ICESIMP2018)



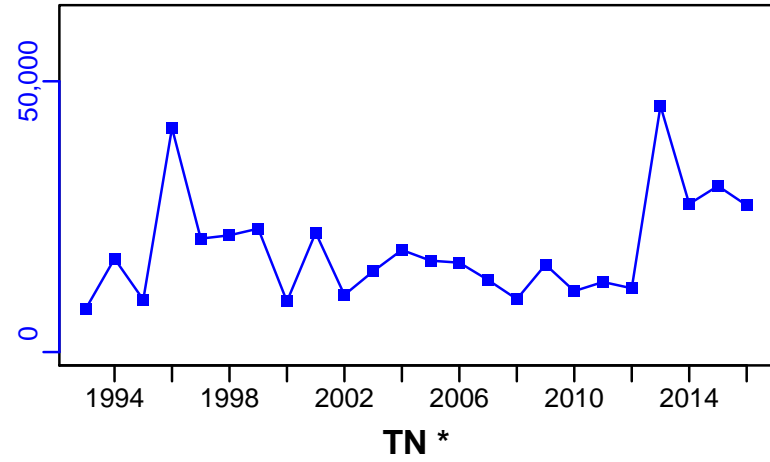
Production (1993–2017–ICESIMP2018)



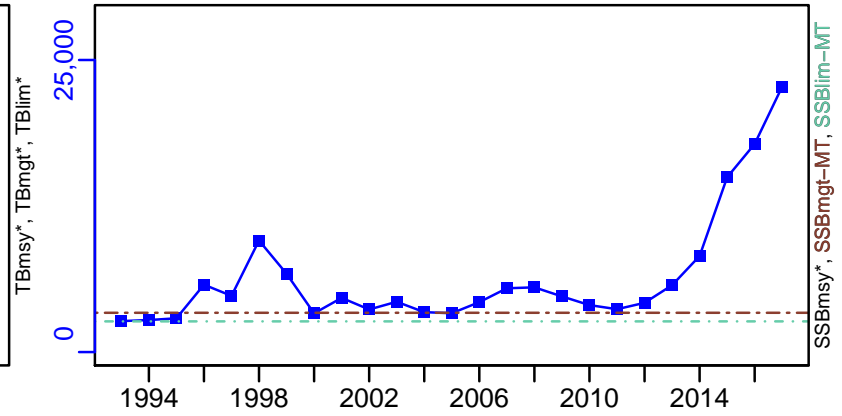
◆ Start Year ◆ End Year * No Data

Haddock Irish Sea [HADIS]

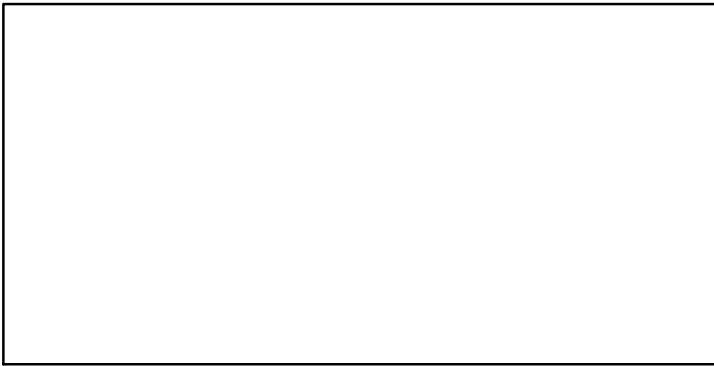
TB-MT (1993–2017–ICESIMP2018)



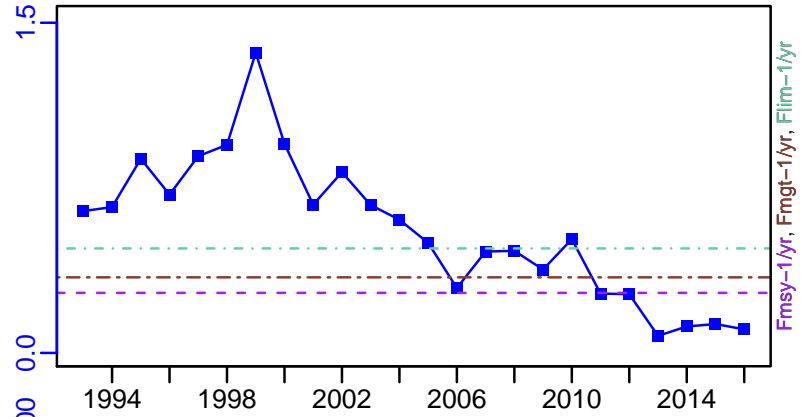
SSB-MT (1993–2017–ICESIMP2018)



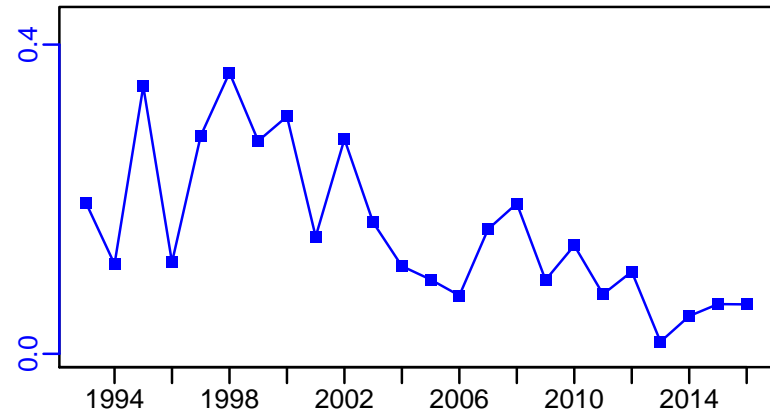
TN *



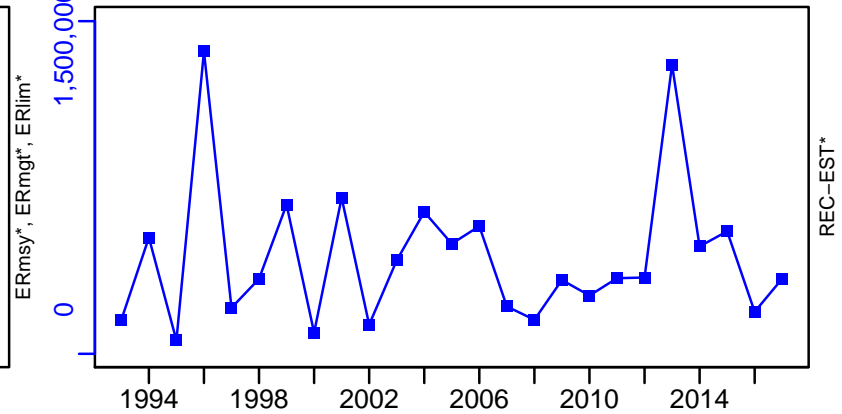
F-1/yr (1993–2017–ICESIMP2018)



ER-calc-ratio (1993–2017–ICESIMP2018)

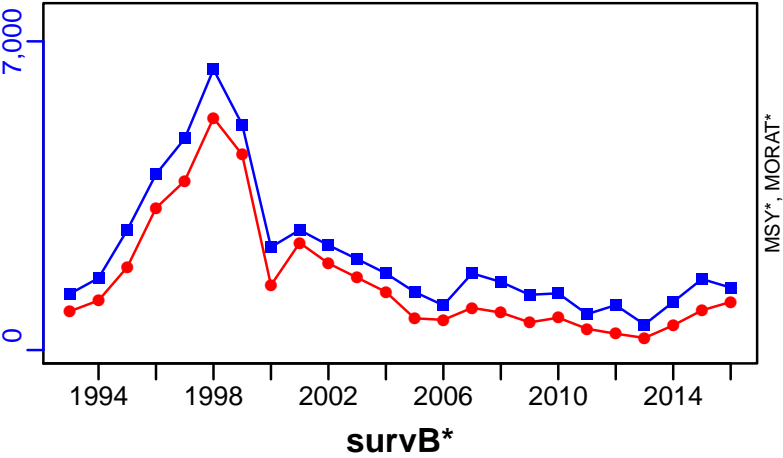


R-E00 (1993–2017–ICESIMP2018)

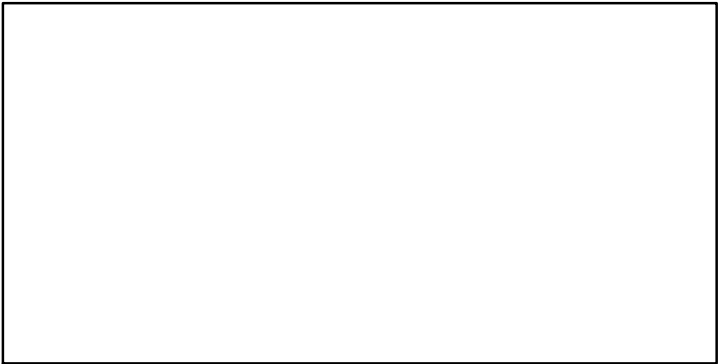


Haddock Irish Sea [HADIS]

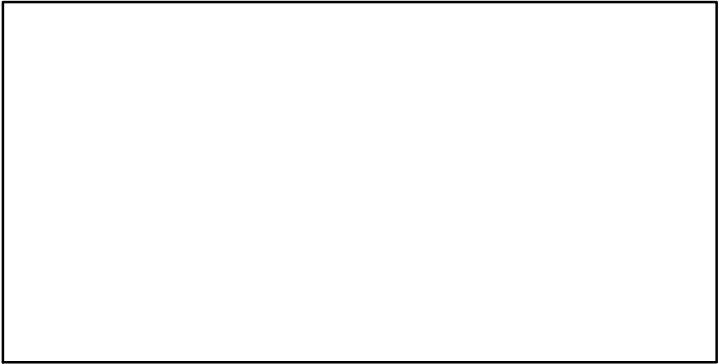
TC-MT, TL-MT, RecC* (1993-2017-ICESIMP2018)



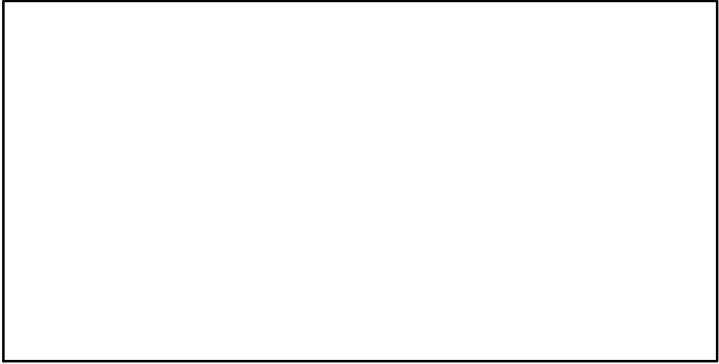
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Haddock North Sea and IIIa-VIa [HADNS-IIIa-VIa]

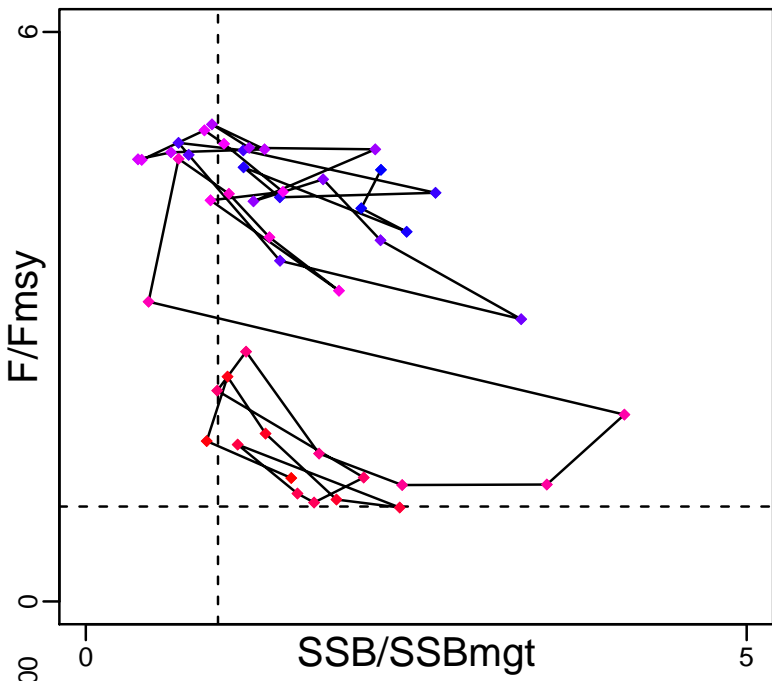
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGNSSK-HADNS-IIIa-VIa-1972-2018-ICESIMP2018
Area	North Sea and IIIa-VIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2015, 2015, 2016, 2017, 2018

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

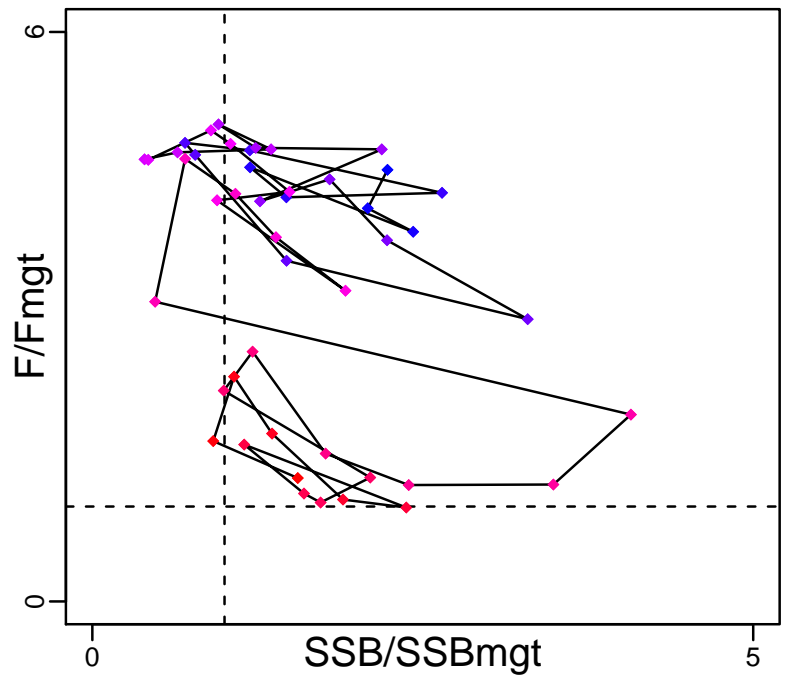
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	499,000	Both	-
SSB	SSB-MT	2018	218,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3.53×10^9	-	0
F	F-1/yr	2018	0.247	-	2 to 4
ER	ER-calc-ratio	2018	0	-	-
TC	TC-MT	2018	0		
TL	TL-MT	2018	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.3		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.654		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.3		
ER/ERmgt	-	-	-		

Haddock North Sea and Illa-Via [HADNS-Illa-Via]

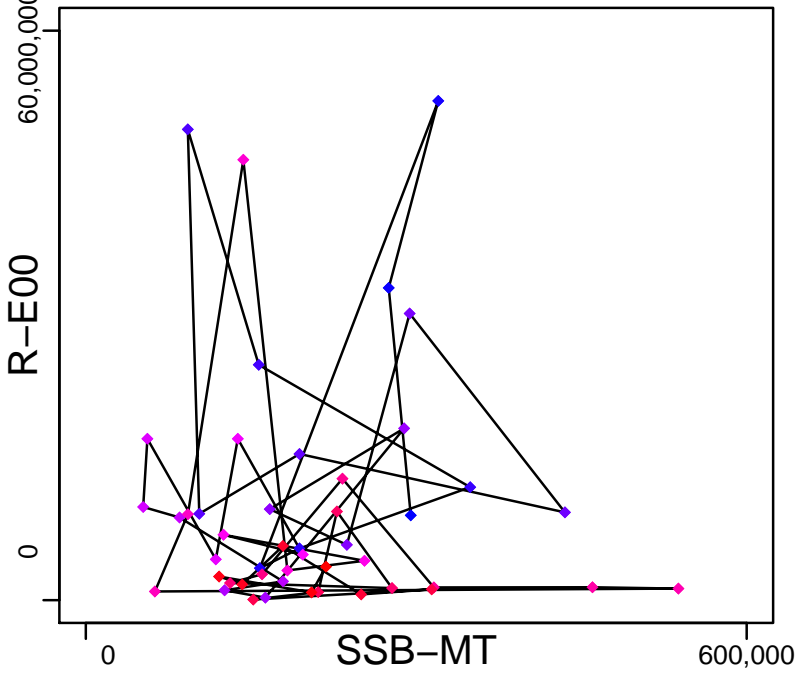
Kobe MSYpref (1972–2018–ICESIMP2018)



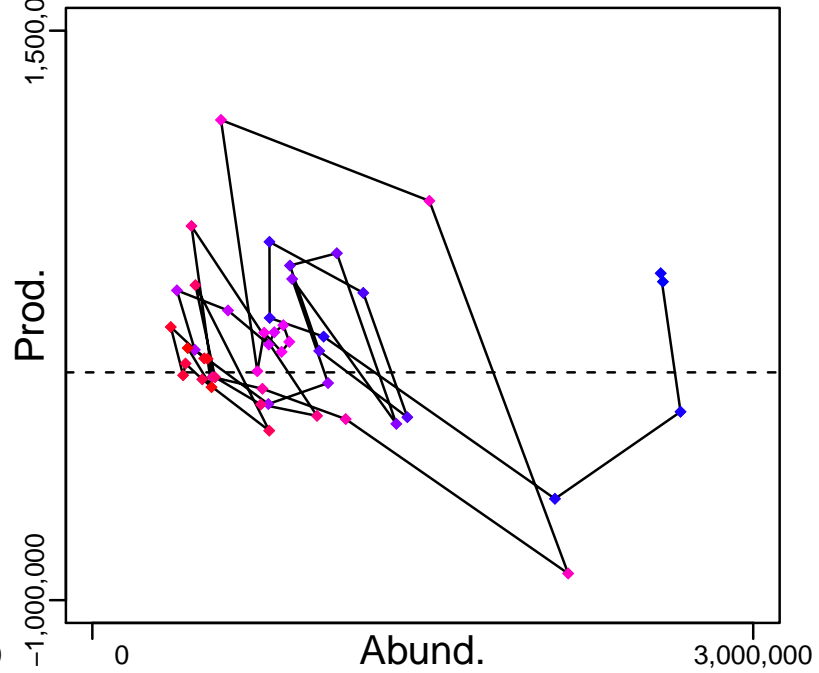
Kobe MGTpref (1972–2018–ICESIMP2018)



Spawner Recruit (1972–2018–ICESIMP2018)



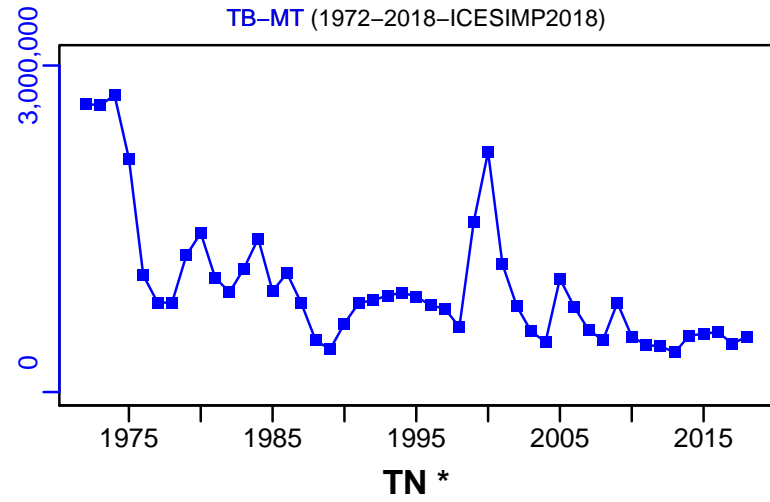
Production (1972–2018–ICESIMP2018)



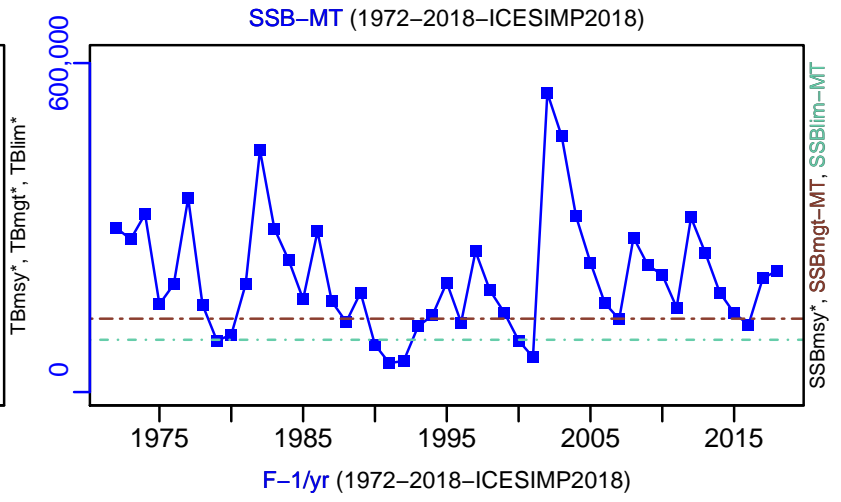
◆ Start Year ◆ End Year * No Data

Haddock North Sea and Illa-Via [HADNS-Illa-Via]

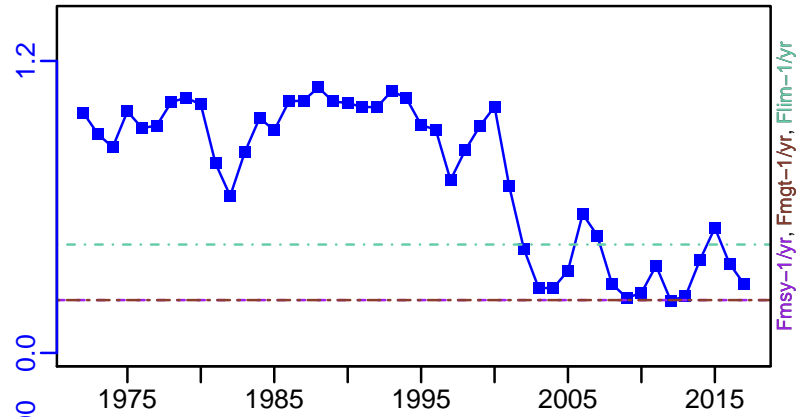
TB-MT (1972–2018–ICESIMP2018)



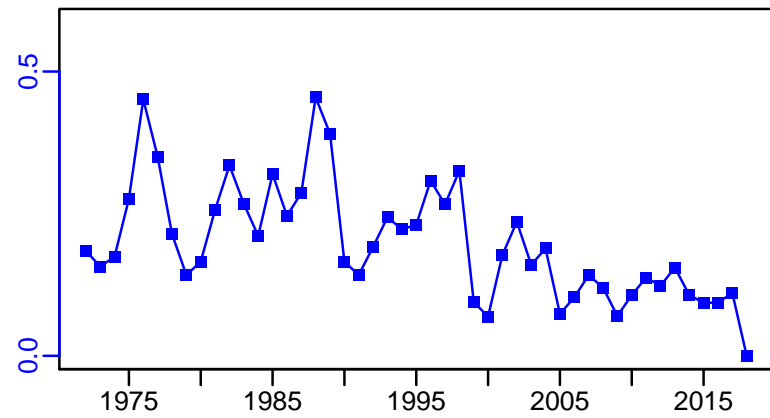
SSB-MT (1972–2018–ICESIMP2018)



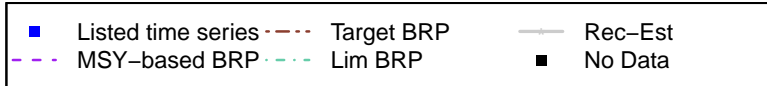
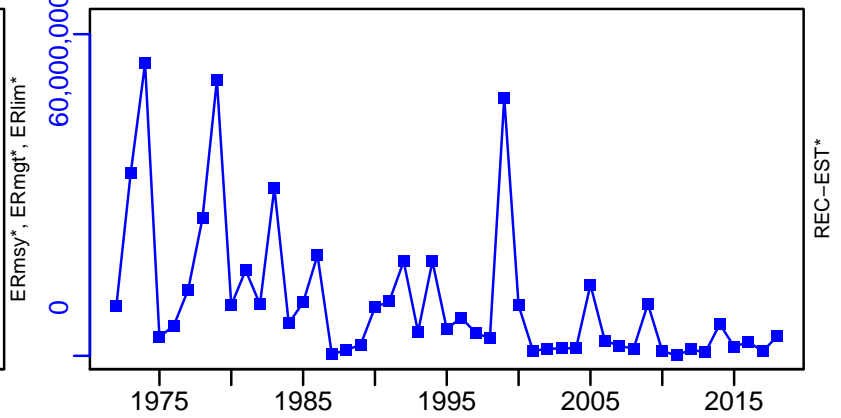
F-1/yr (1972–2018–ICESIMP2018)



ER-calc-ratio (1972–2018–ICESIMP2018)

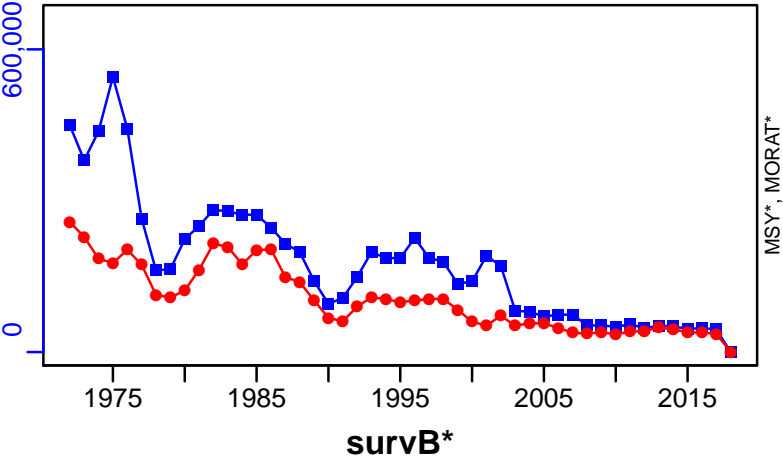


R-E00 (1972–2018–ICESIMP2018)



Haddock North Sea and Illa-Via [HADNS-Illa-Via]

TC-MT, TL-MT, RecC* (1972–2018–ICESIMP2018)



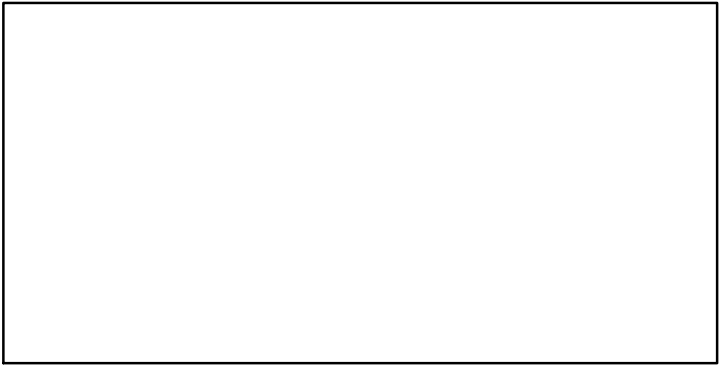
TAC*, Cpair*, Cadv*



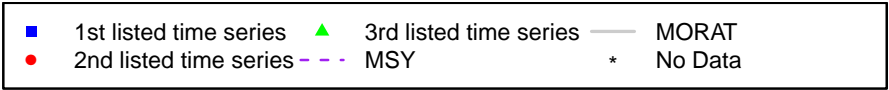
CPUE*



EFFORT*



CdivMSY*



Haddock Rockall Bank [HADROCK]

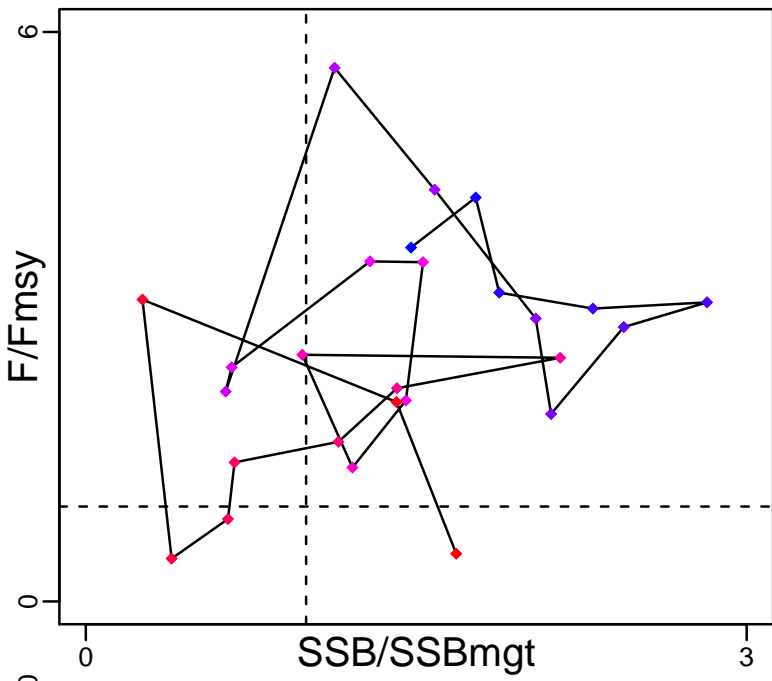
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADROCK-1990-2017-ICESIMP2018
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	10,200
Fmgt	Fmgt-1/yr	2017	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	9000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	6800
Flim	Flim-1/yr	2017	0.69
ERlim	-	-	-

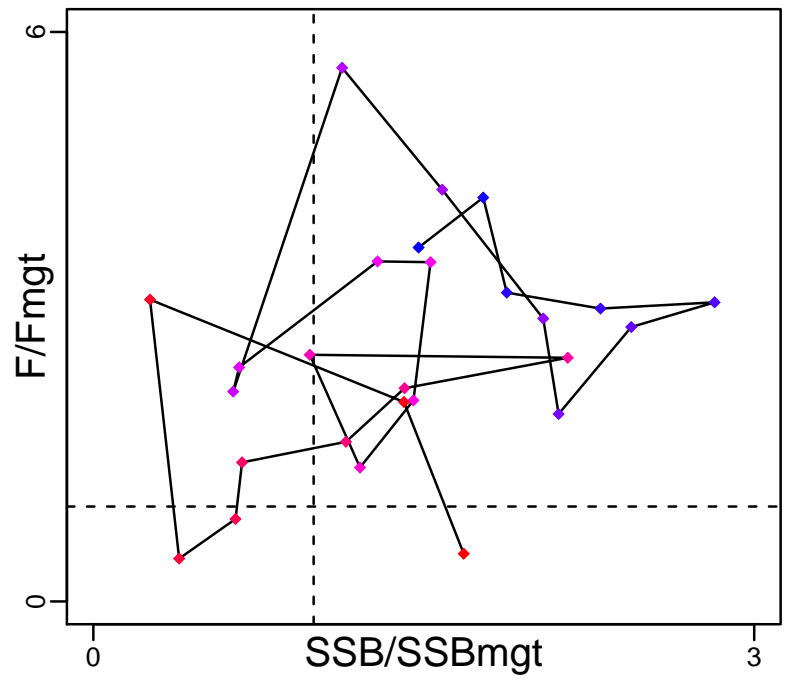
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	23,300	Both	-
SSB	SSB-MT	2017	18,100	Both	-
TN	-	-	-	-	-
R	R-E00	2017	94,800,000	-	1
F	F-1/yr	2017	0.101	-	2 to 5
ER	ER-calc-ratio	2017	0.124	-	-
TC	TC-MT	2017	2890		
TL	TL-MT	2017	2590		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.503		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.771		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.503		
ER/ERmgt	-	-	-		

Haddock Rockall Bank [HADROCK]

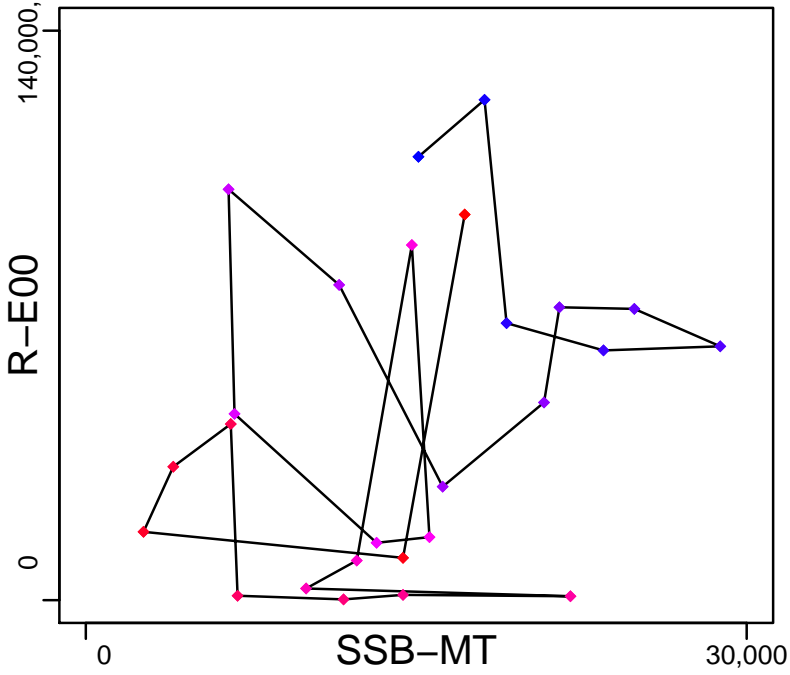
Kobe MSYpref (1990–2017–ICESIMP2018)



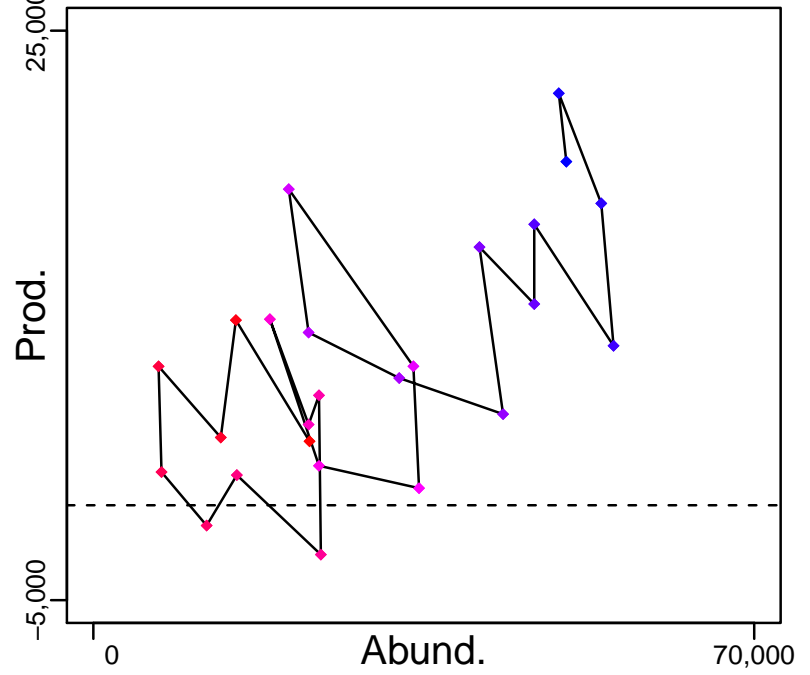
Kobe MGTpref (1990–2017–ICESIMP2018)



Spawner Recruit (1990–2017–ICESIMP2018)



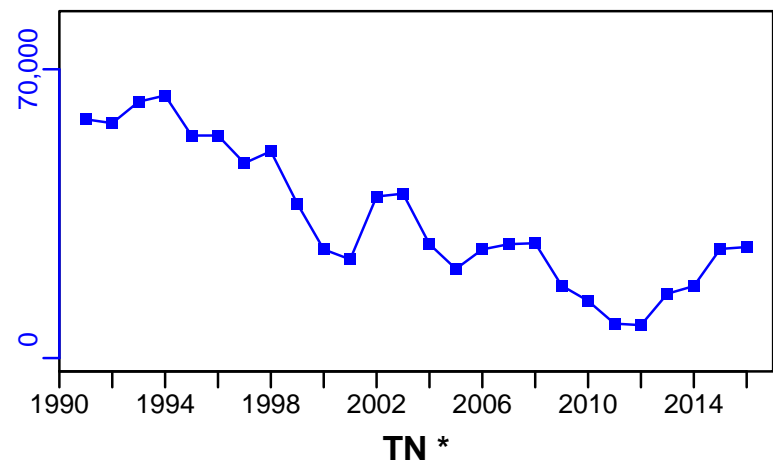
Production (1990–2017–ICESIMP2018)



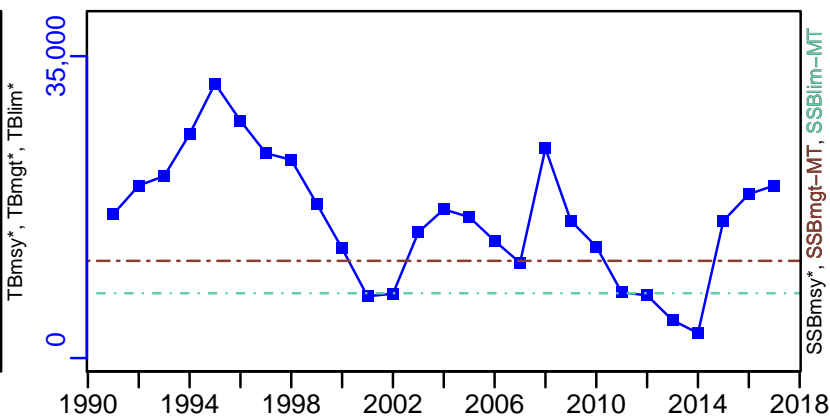
◆ Start Year ◆ End Year * No Data

Haddock Rockall Bank [HADROCK]

TB-MT (1990–2017–ICESIMP2018)



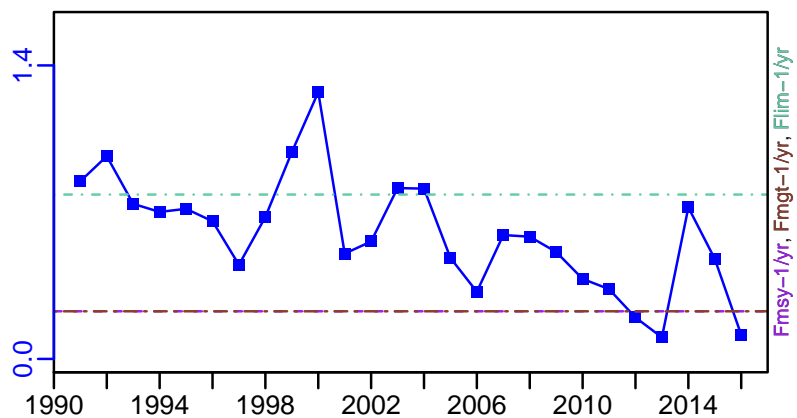
SSB-MT (1990–2017–ICESIMP2018)



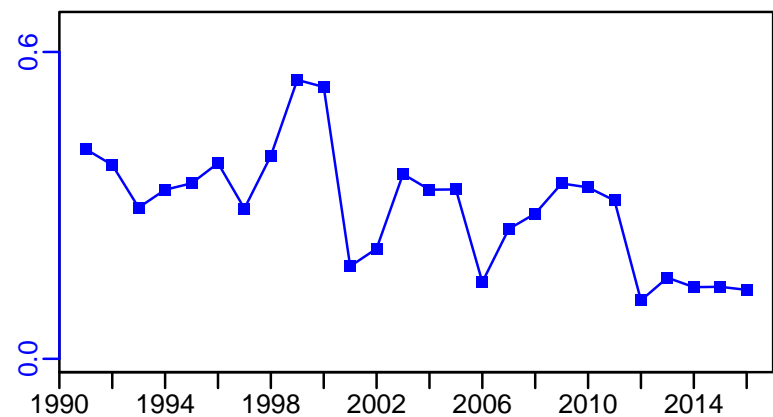
TN *



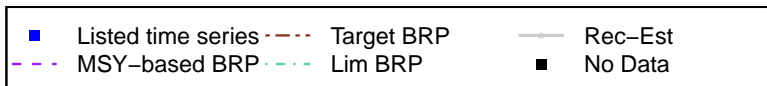
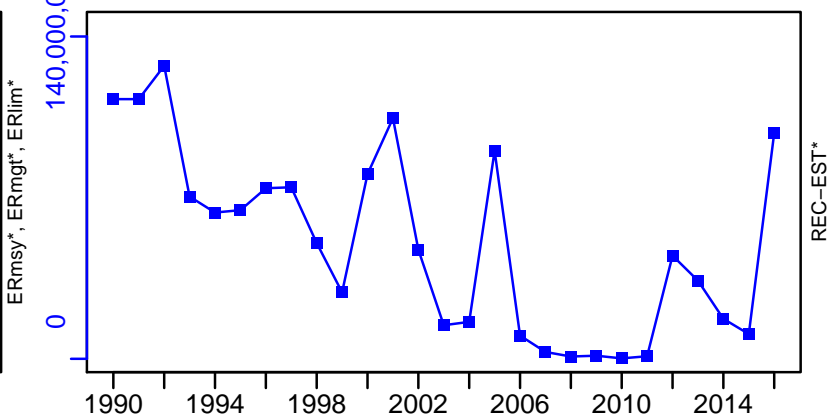
F-1/yr (1990–2017–ICESIMP2018)



ER-calc-ratio (1990–2017–ICESIMP2018)

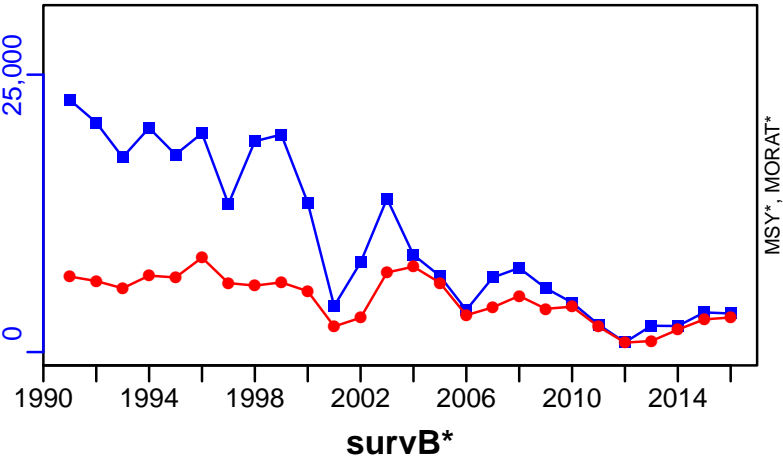


R-E00 (1990–2017–ICESIMP2018)



Haddock Rockall Bank [HADROCK]

TC-MT, TL-MT, RecC* (1990-2017-ICESIMP2018)



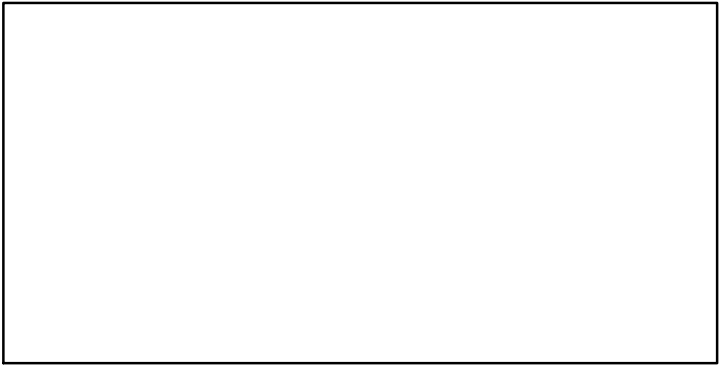
TAC*, Cpair*, Cadv*



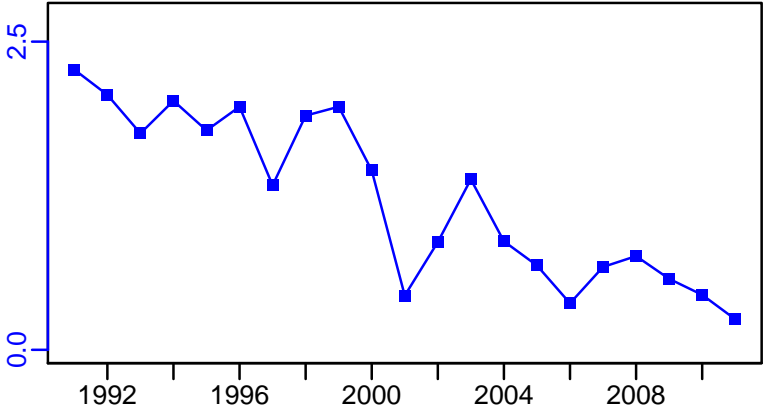
CPUE*



EFFORT*



CdivMSY-ratio (1990-2012-CHING)



Haddock ICES VIIb-k [HADVIIb-k]

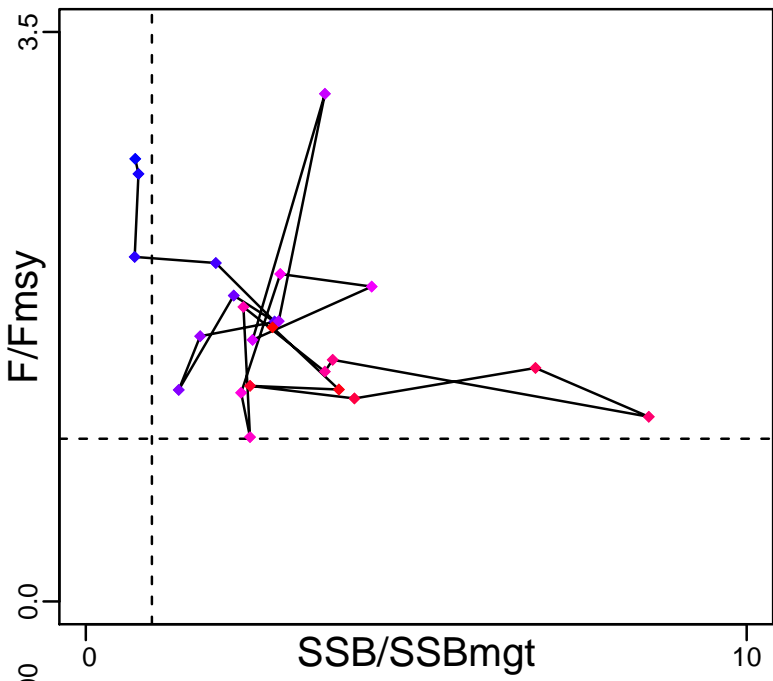
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADVIIb-k-1993-2017-ICESIMP2018
Area	ICES VIIb-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.4
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	10,000
Fmgt	Fmgt-1/yr	2017	0.4
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	6700
Flim	Flim-1/yr	2017	1.41
ERlim	-	-	-

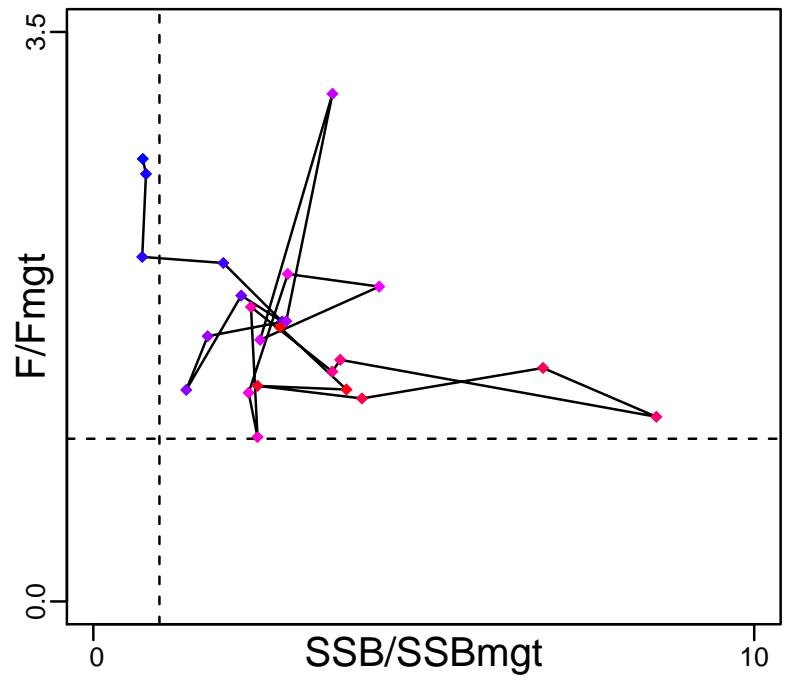
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	60,300	Both	-
SSB	SSB-MT	2017	32,900	Both	-
TN	-	-	-	-	-
R	R-E00	2017	2.58×10^8	-	0
F	F-1/yr	2017	0.674	-	-
ER	ER-calc-ratio	2017	0.297	-	-
TC	TC-MT	2017	17,900		
TL	TL-MT	2017	7590		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.685		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	3.294		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	1.685		
ER/ERmgt	-	-	-		

Haddock ICES VIIb-k [HADVIIb-k]

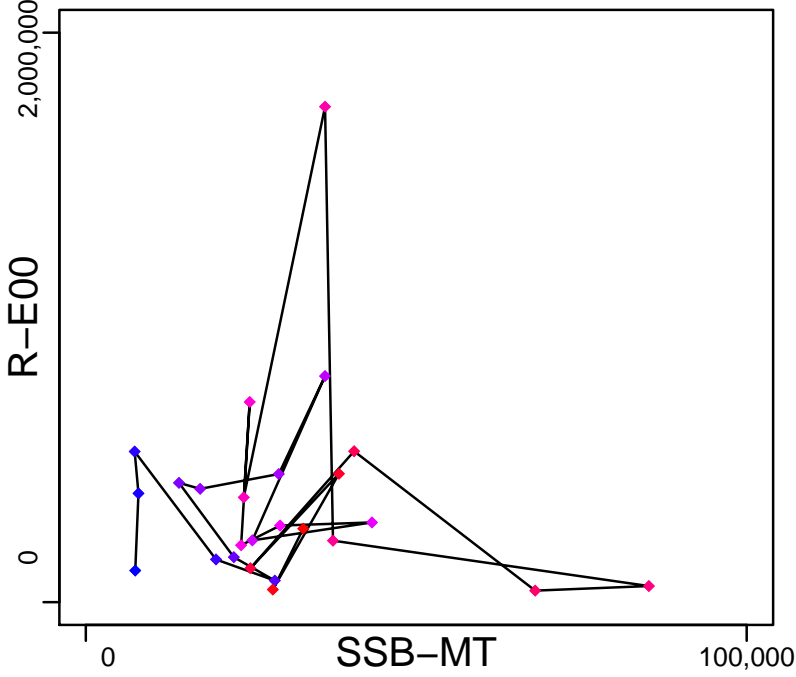
Kobe MSYpref (1993–2017–ICESIMP2018)



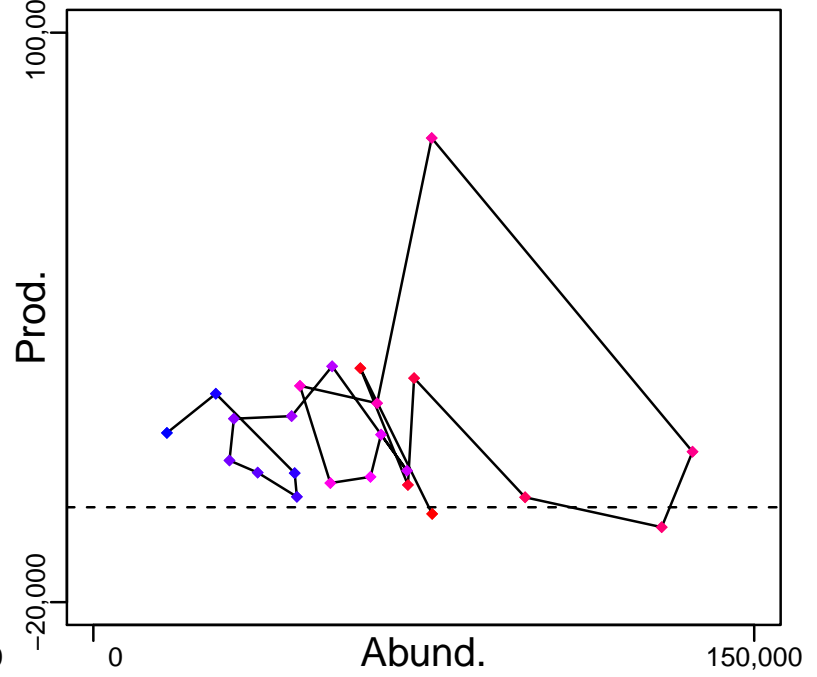
Kobe MGTpref (1993–2017–ICESIMP2018)



Spawner Recruit (1993–2017–ICESIMP2018)

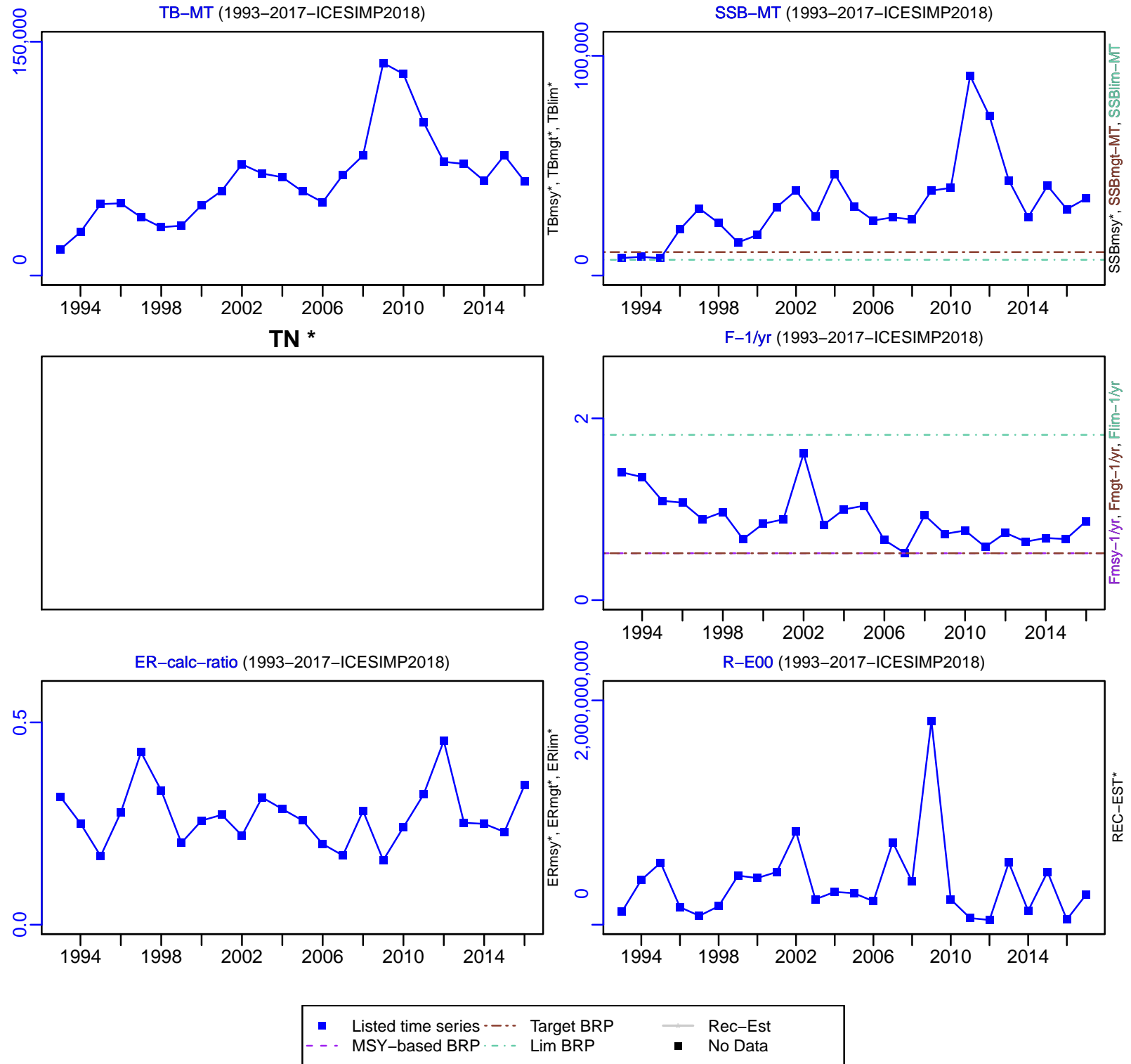


Production (1993–2017–ICESIMP2018)



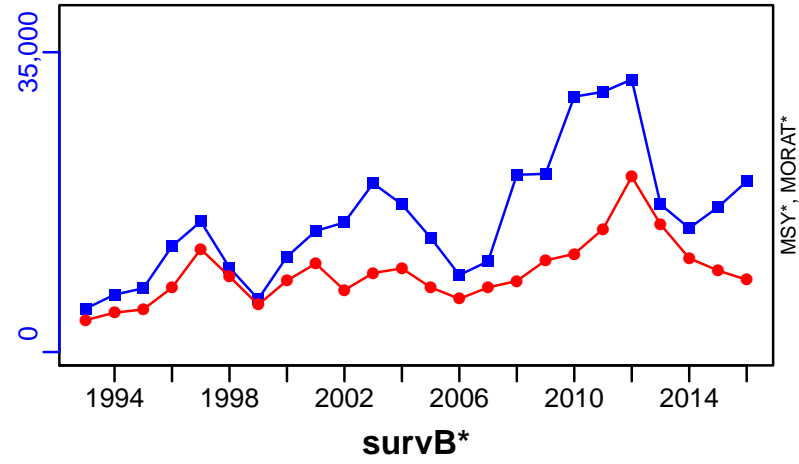
◆ Start Year ◆ End Year * No Data

Haddock ICES VIIb-k [HADVIIb-k]

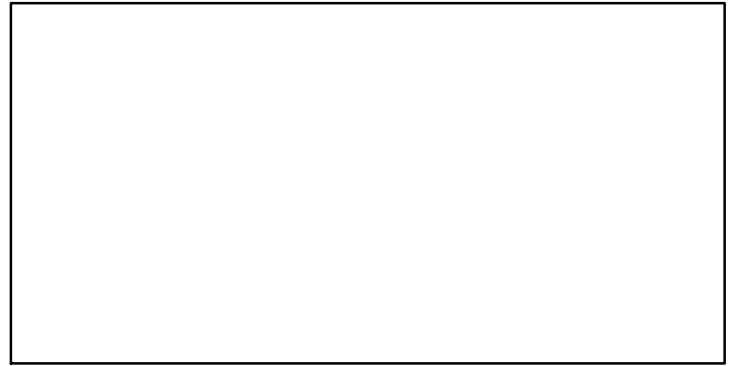


Haddock ICES VIIb-k [HADVIIb-k]

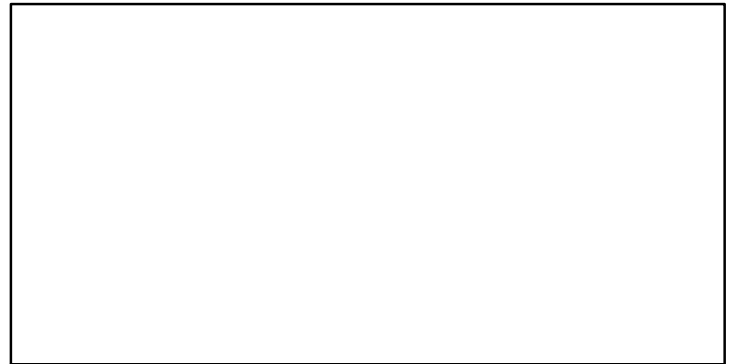
TC-MT, TL-MT, RecC* (1993-2017-ICESIMP2018)



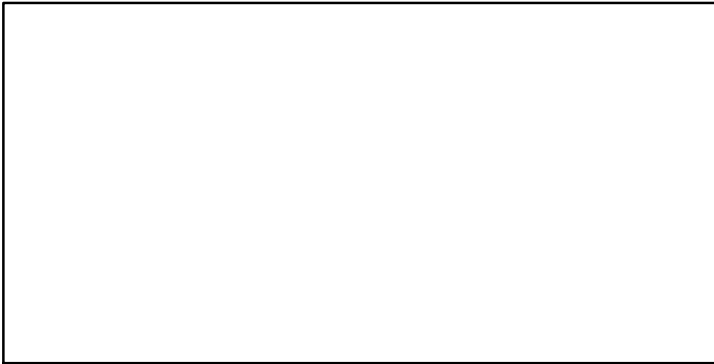
TAC*, Cpair*, Cadv*



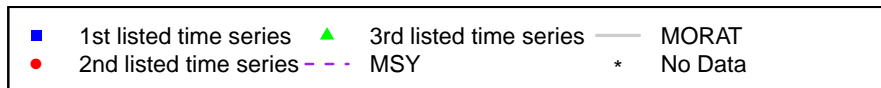
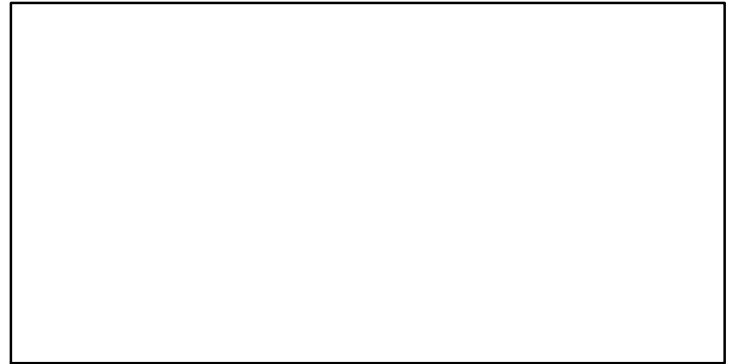
CPUE*



EFFORT*



CdivMSY*



Hake Northeast Atlantic North [HAKENRTN]

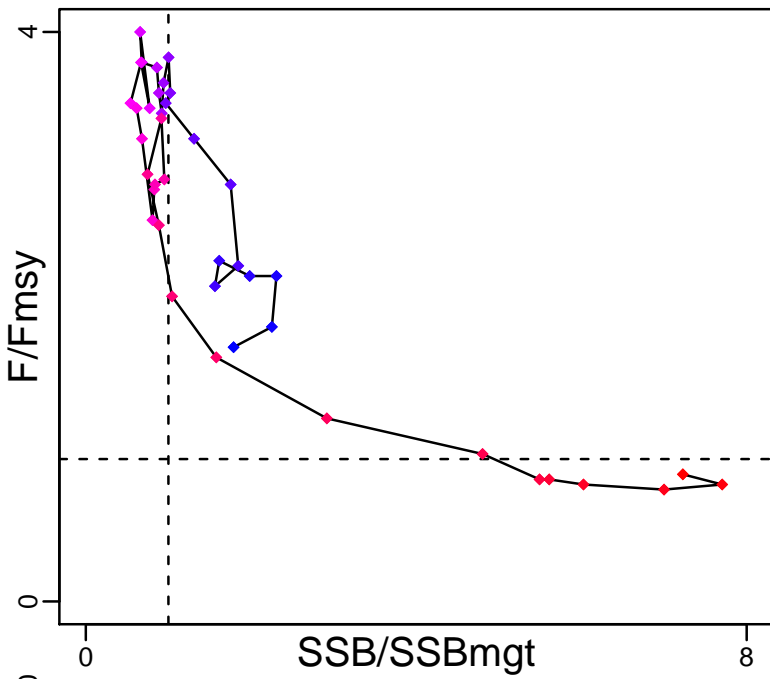
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKENRTN-1978-2018-ICESIMP2018
Area	IIIa-IV-VI-VII-VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.28
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	45,000
Fmgt	Fmgt-1/yr	2018	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	32,000
Flim	Flim-1/yr	2018	0.87
ERlim	-	-	-

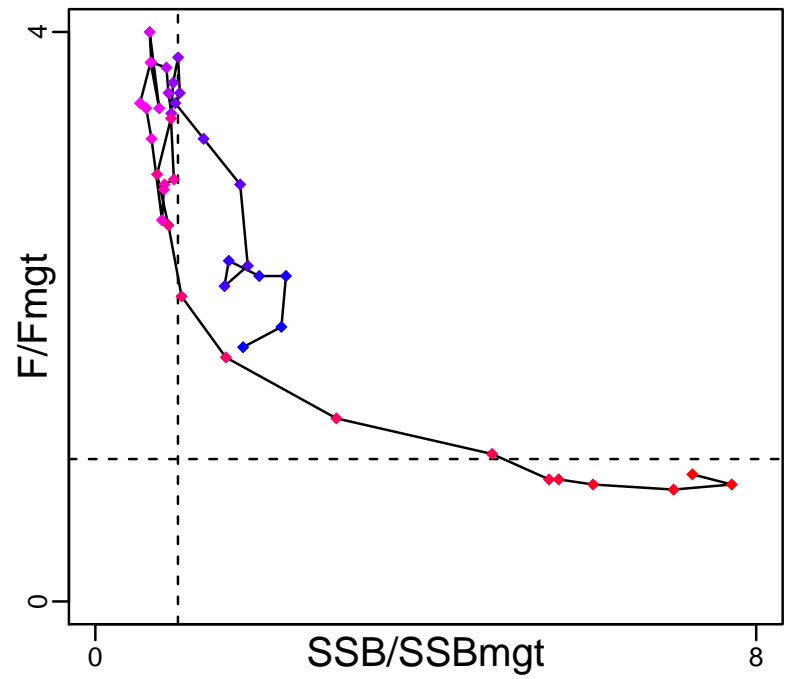
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	372,000	Both	-
SSB	SSB-MT	2018	307,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3.04×10^8	-	0
F	F-1/yr	2018	0.25	-	-
ER	ER-calc-ratio	2018	0.296	-	-
TC	TC-MT	2018	110,000		
TL	TL-MT	2018	105,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.893		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	6.811		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.893		
ER/ERmgt	-	-	-		

Hake Northeast Atlantic North [HAKENRTN]

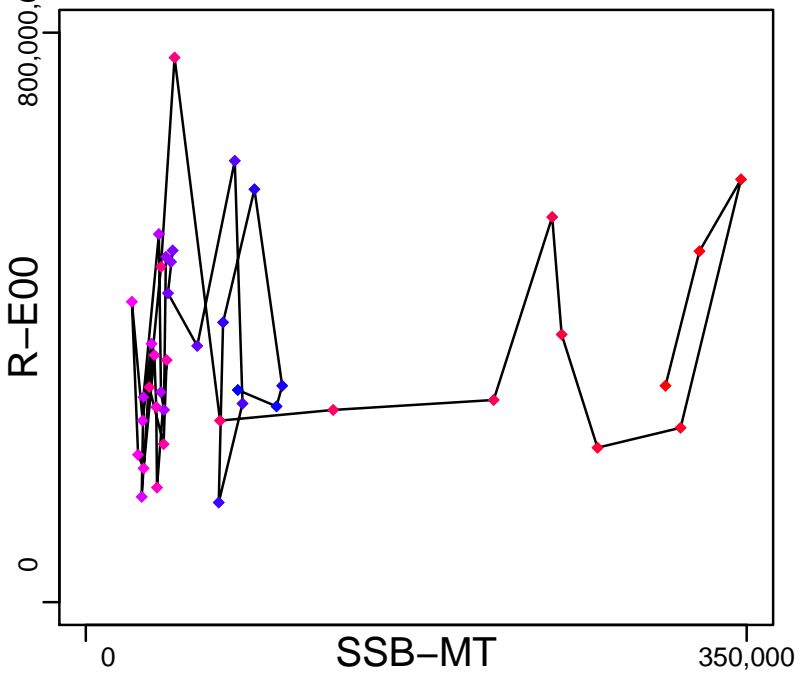
Kobe MSYpref (1978–2018–ICESIMP2018)



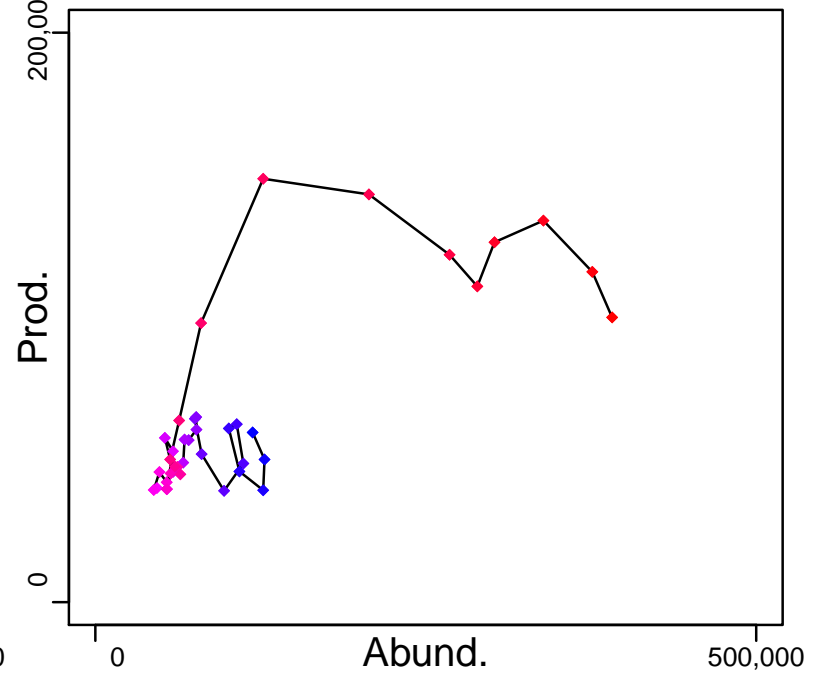
Kobe MGTpref (1978–2018–ICESIMP2018)



Spawner Recruit (1978–2018–ICESIMP2018)



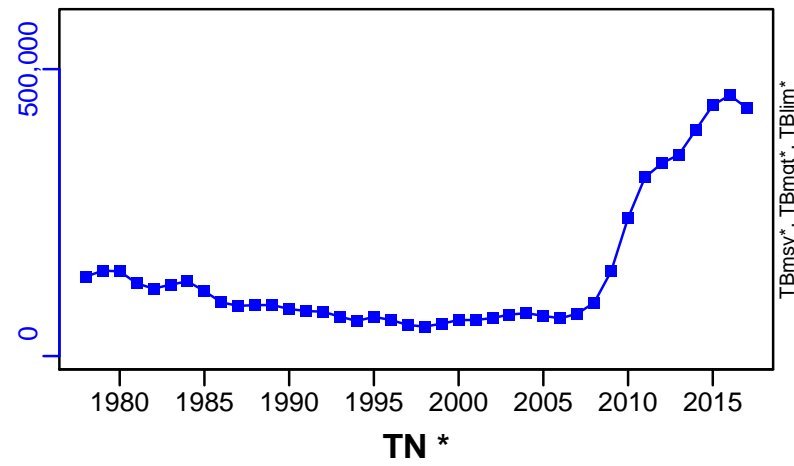
Production (1978–2018–ICESIMP2018)



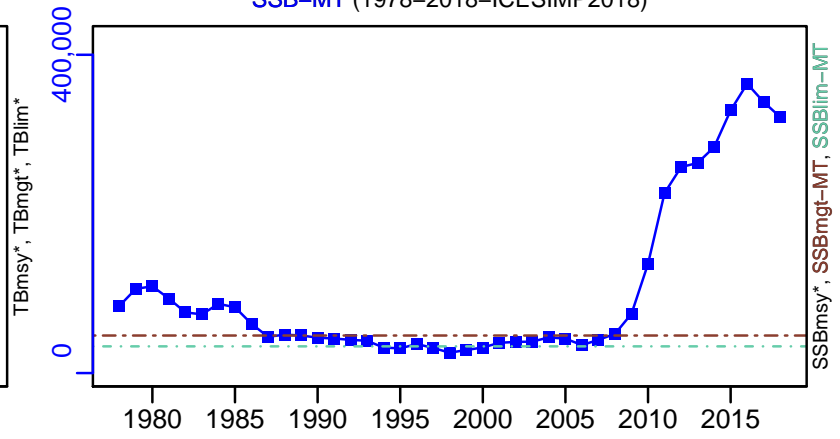
◆ Start Year ◆ End Year * No Data

Hake Northeast Atlantic North [HAKENRTN]

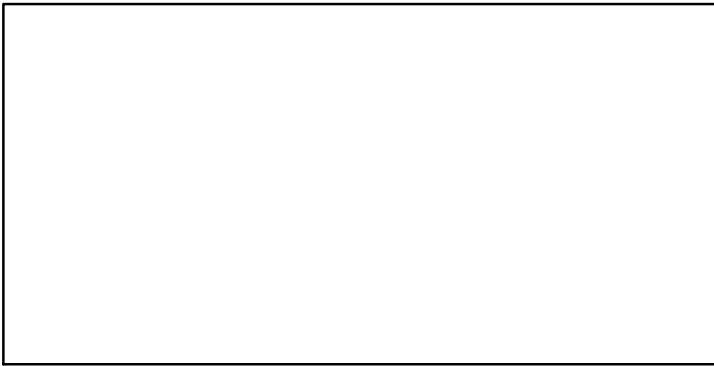
TB-MT (1978–2018–ICESIMP2018)



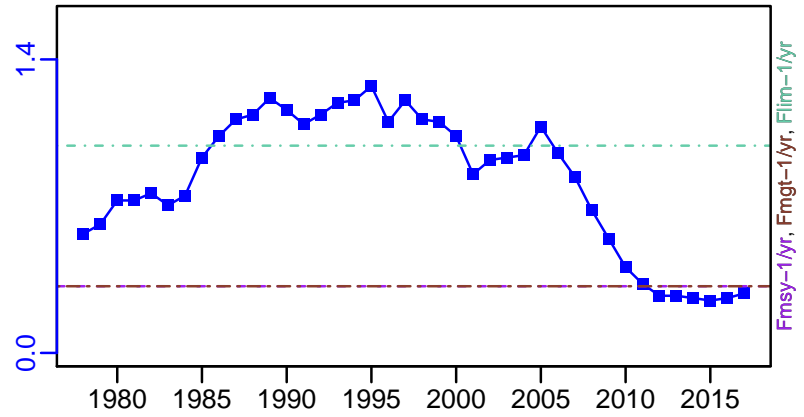
SSB-MT (1978–2018–ICESIMP2018)



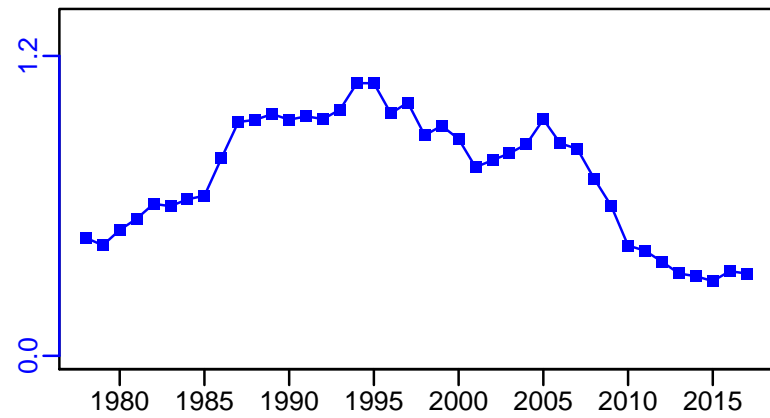
TN *



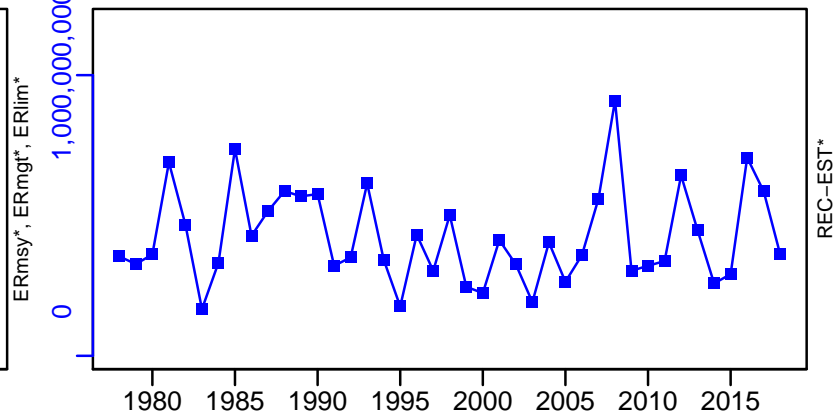
F-1/yr (1978–2018–ICESIMP2018)



ER-calc-ratio (1978–2018–ICESIMP2018)

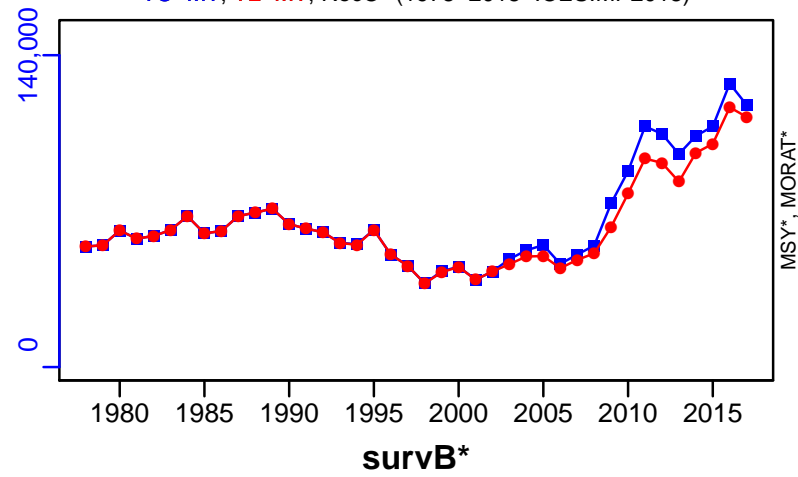


R-E00 (1978–2018–ICESIMP2018)

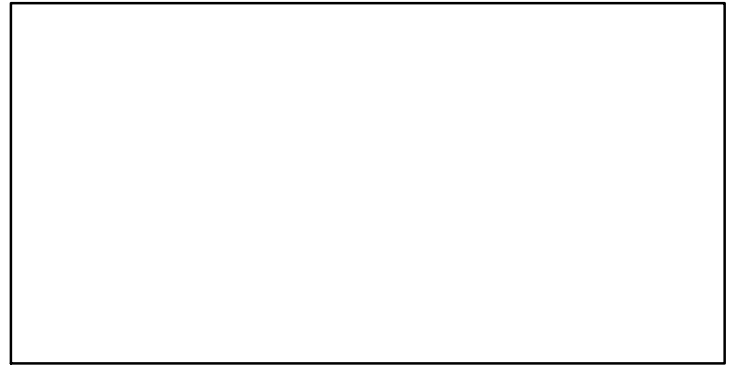


Hake Northeast Atlantic North [HAKENRTN]

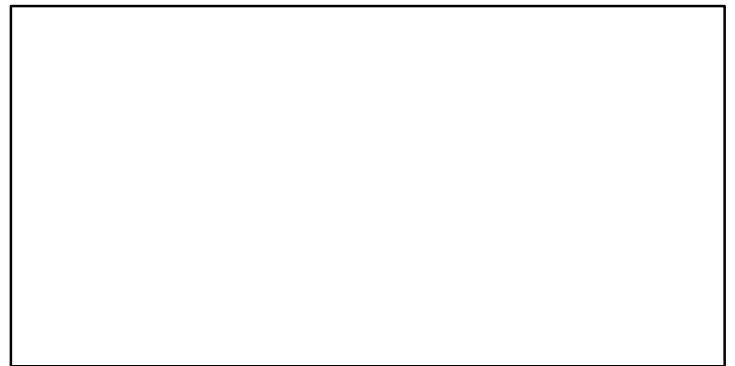
TC-MT, TL-MT, RecC* (1978–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



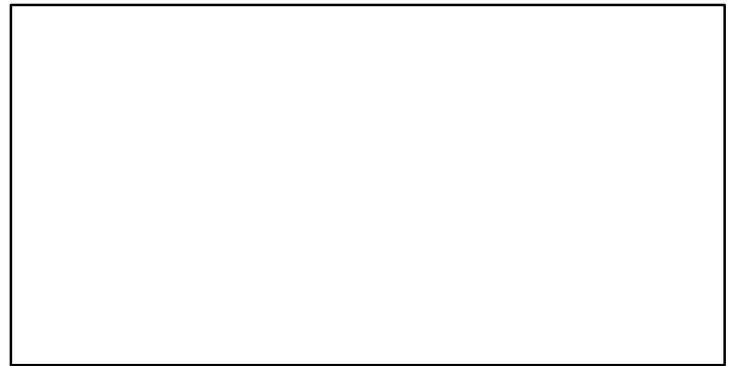
CPUE*



EFFORT*



CdivMSY*



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

Hake Northeast Atlantic South [HAKESOTH]

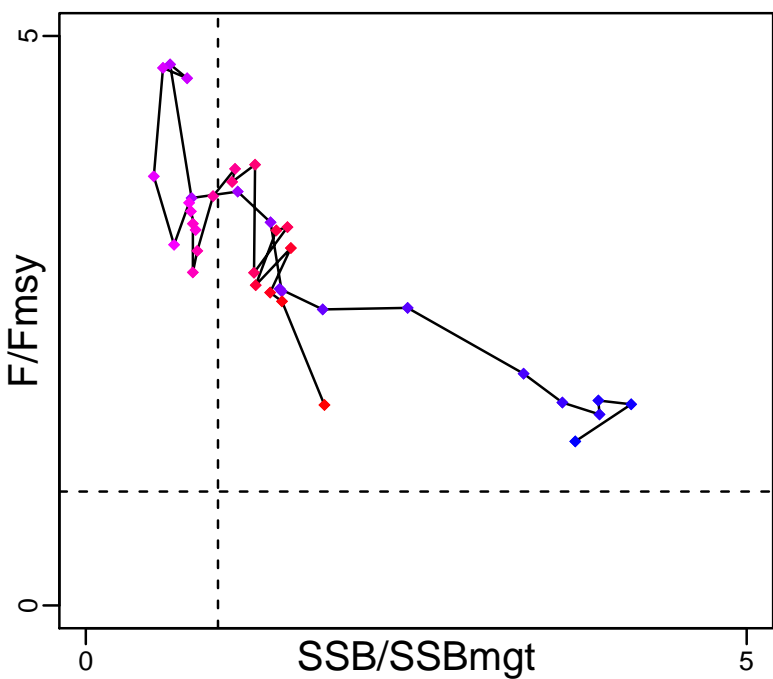
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKESOTH-1982-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2011, 2013

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

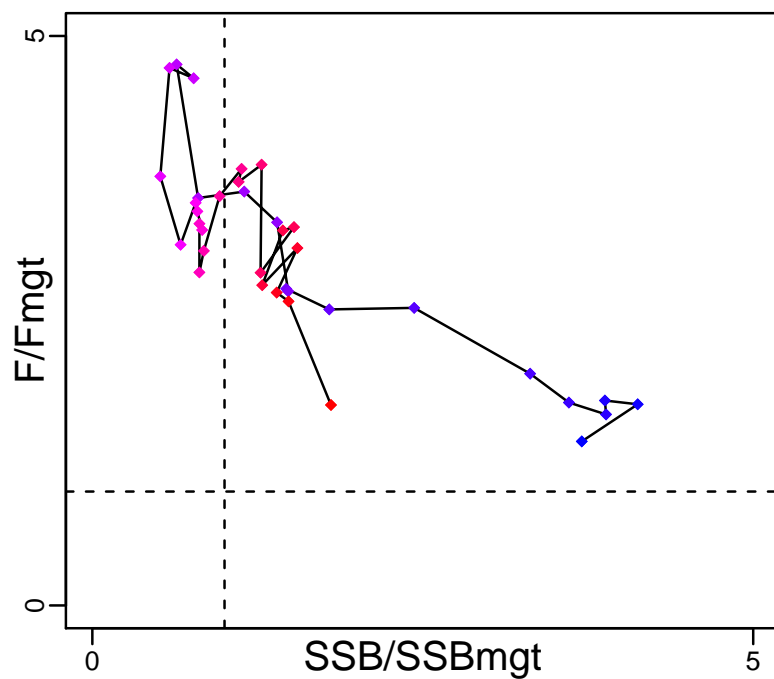
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	29,200	Both	-
SSB	SSB-MT	2018	23,900	Both	-
TN	-	-	-	-	-
R	R-E00	2018	79,400,000	-	0
F	F-1/yr	2018	0.44	-	1 to 3
ER	ER-calc-ratio	2018	0.449	-	-
TC	TC-MT	2018	10,800		
TL	TL-MT	2018	9100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.76		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.152		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.76		
ER/ERmgt	-	-	-		

Hake Northeast Atlantic South [HAKESOTH]

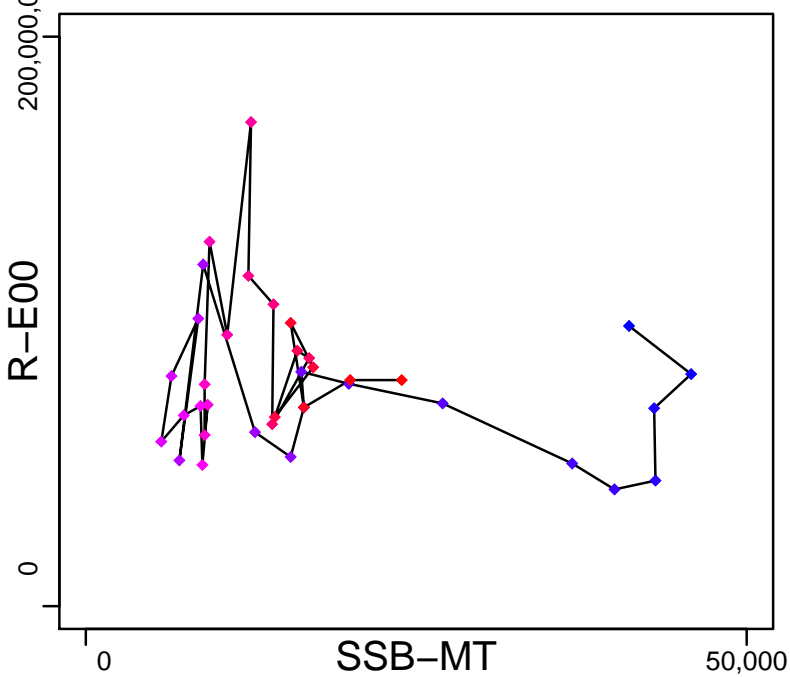
Kobe MSYpref (1982–2018–ICESIMP2018)



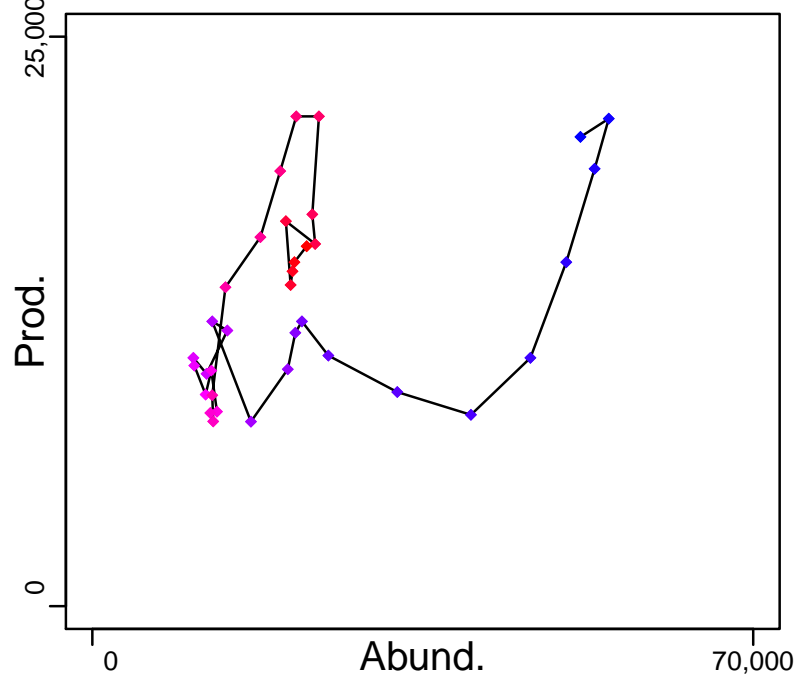
Kobe MGTpref (1982–2018–ICESIMP2018)



Spawner Recruit (1982–2018–ICESIMP2018)



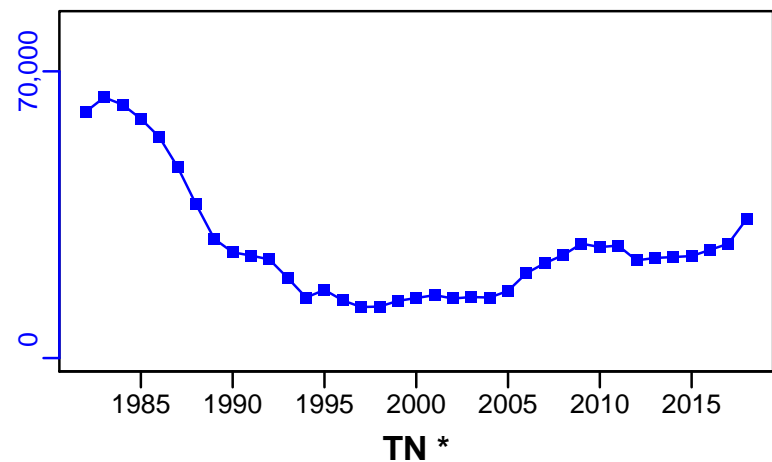
Production (1982–2018–ICESIMP2018)



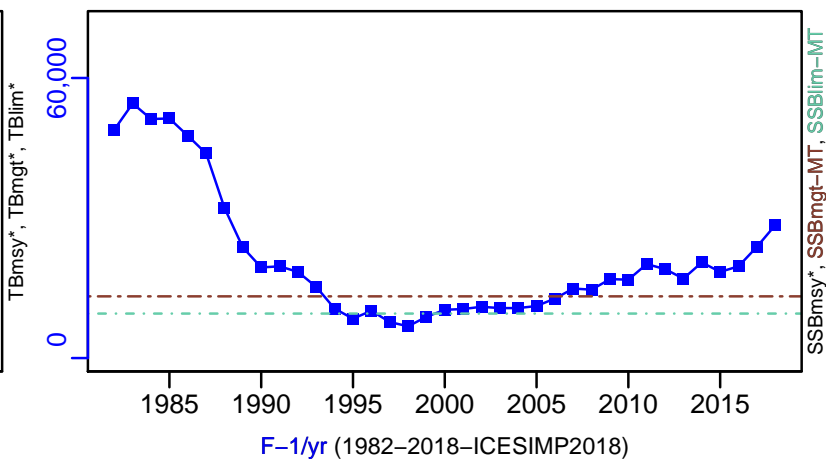
◆ Start Year ◆ End Year * No Data

Hake Northeast Atlantic South [HAKESOTH]

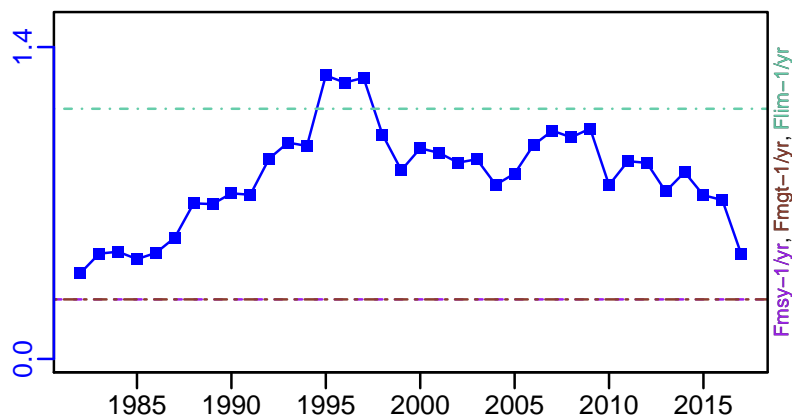
TB-MT (1982–2018–ICESIMP2018)



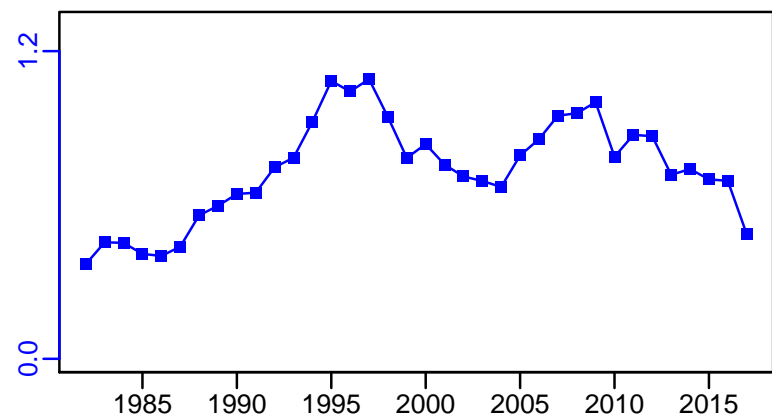
SSB-MT (1982–2018–ICESIMP2018)



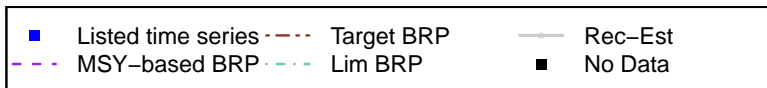
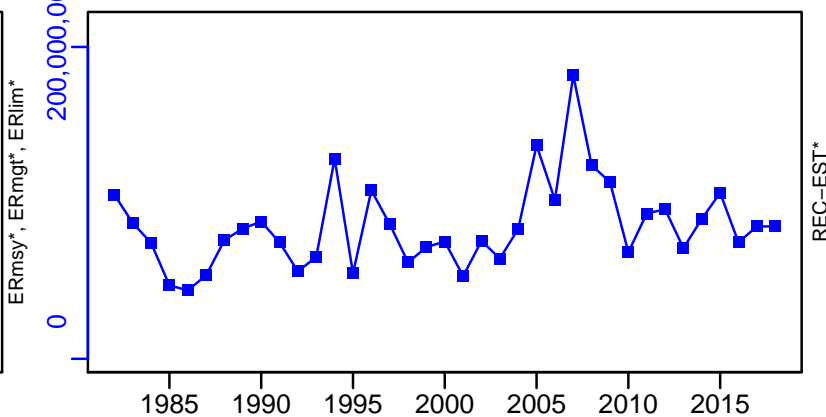
F-1/yr (1982–2018–ICESIMP2018)



ER-calc-ratio (1982–2018–ICESIMP2018)

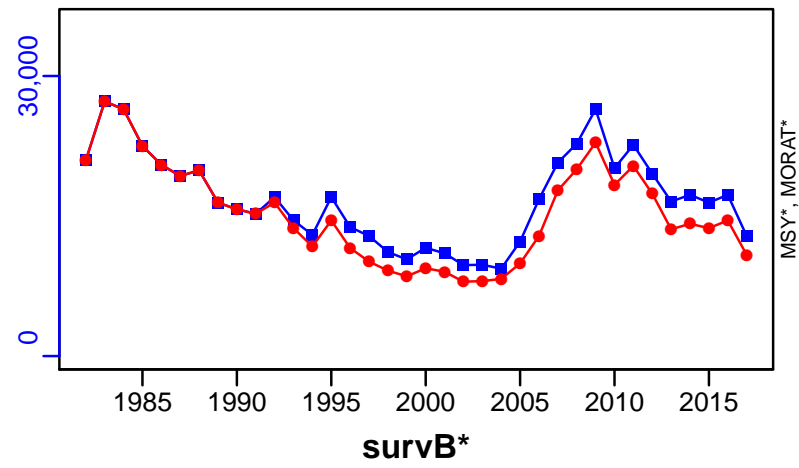


R-E00 (1982–2018–ICESIMP2018)



Hake Northeast Atlantic South [HAKESOTH]

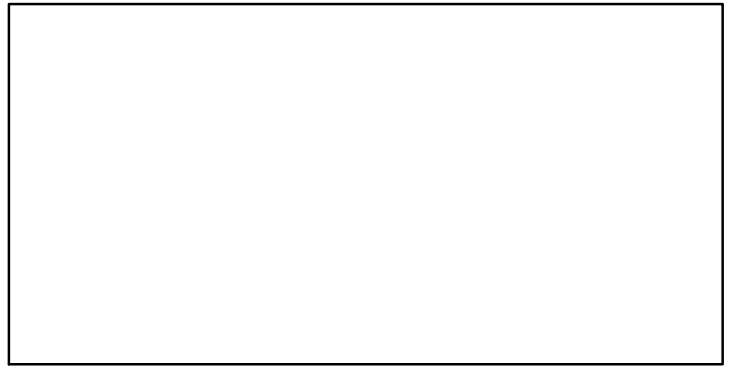
TC-MT, TL-MT, RecC* (1982–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



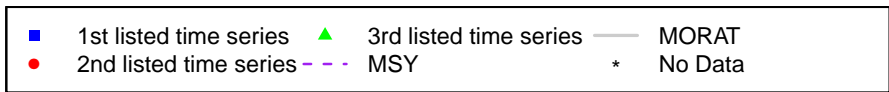
CPUE*



EFFORT*



CdivMSY*



Herring ICES 22-24-IIIa [HERR2224IIIa]

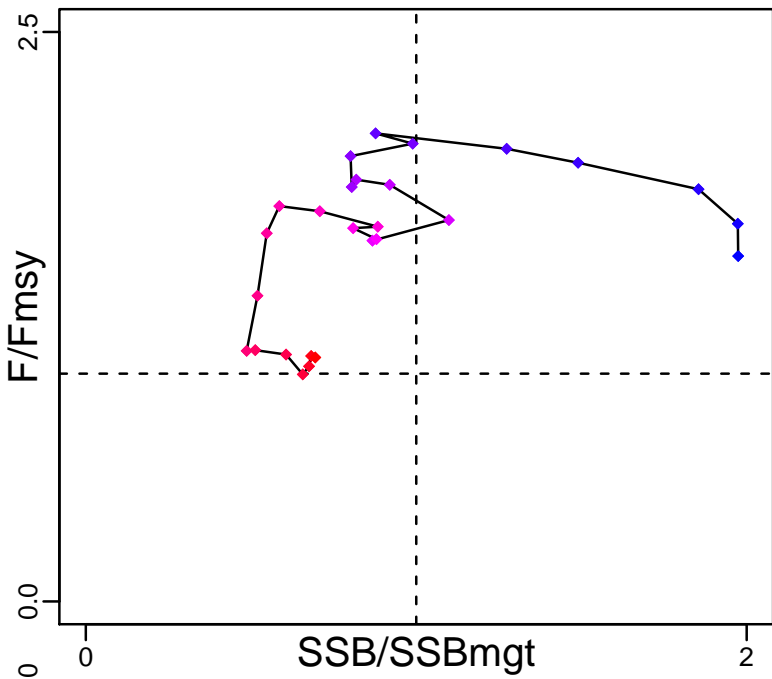
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERR2224IIIa-1991-2018-ICESIMP2018
Area	22-24-IIIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018

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

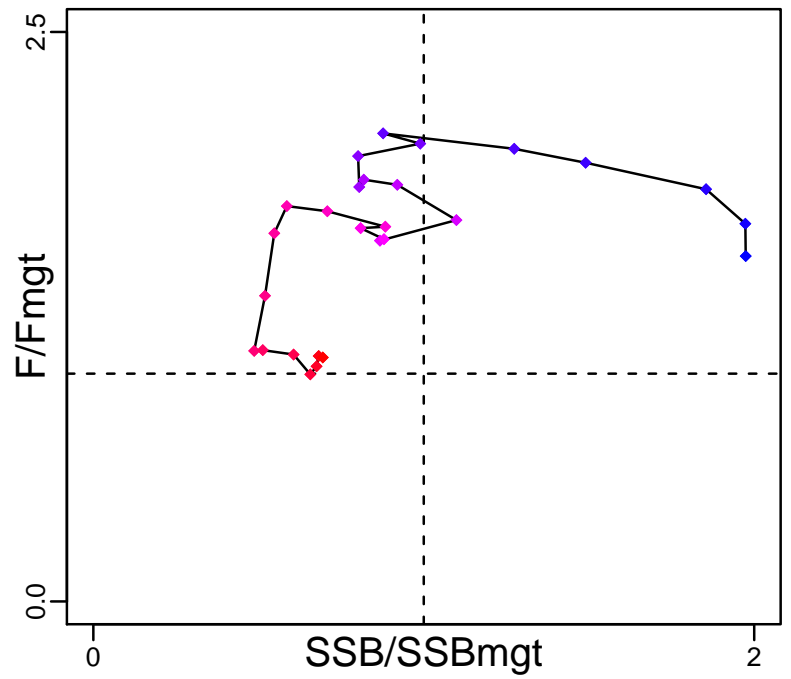
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	163,000	Both	-
SSB	SSB-MT	2018	104,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.37×10^9	-	0
F	F-1/yr	2018	0.332	-	3 to 6
ER	ER-calc-ratio	2018	0.284	-	-
TC	TC-MT	2018	46,300		
TL	TL-MT	2018	46,300		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.491		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.071		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.694		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.071		
ER/ERmgt	-	-	-		

Herring ICES 22-24-IIIa [HERR2224IIIa]

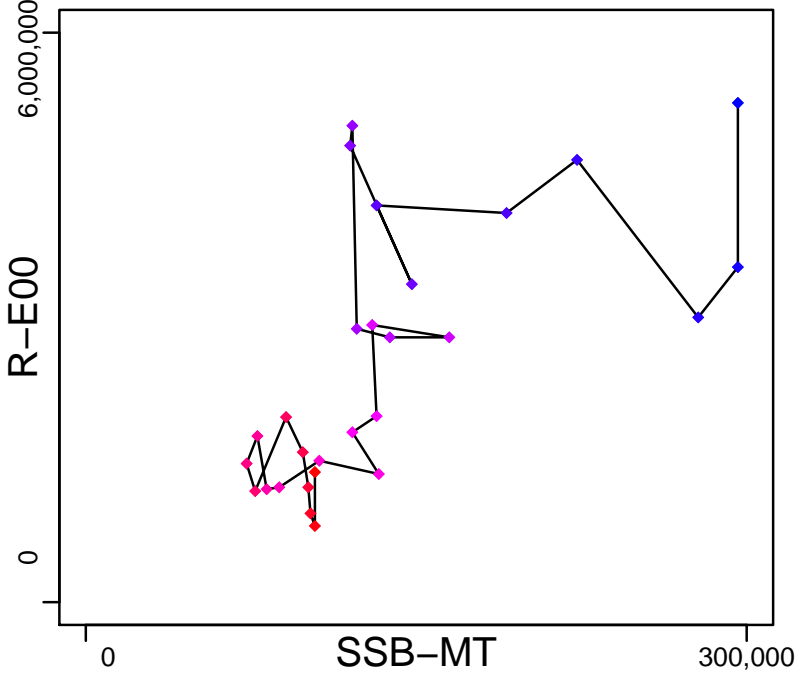
Kobe MSYpref (1991-2018-ICESIMP2018)



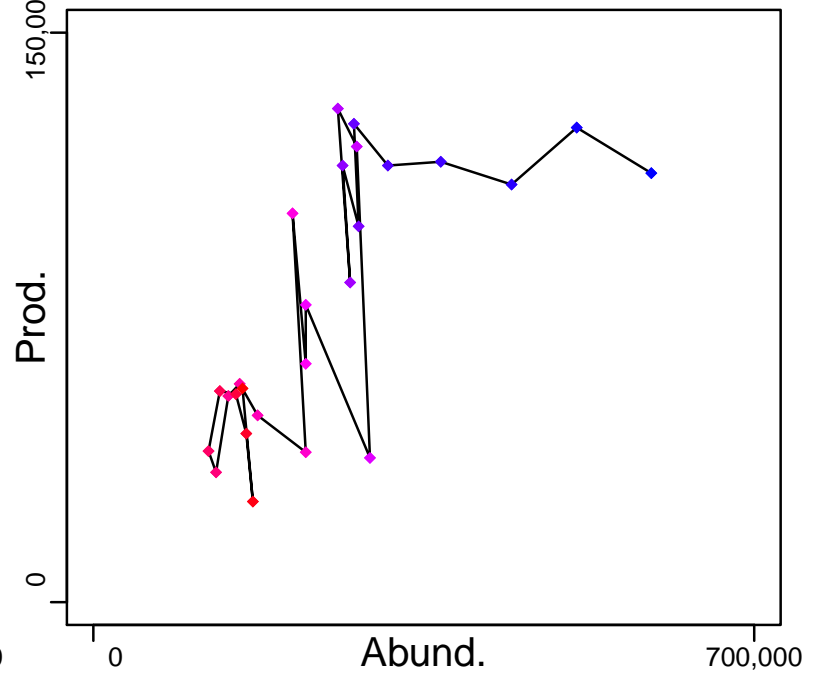
Kobe MGTpref (1991-2018-ICESIMP2018)



Spawner Recruit (1991-2018-ICESIMP2018)



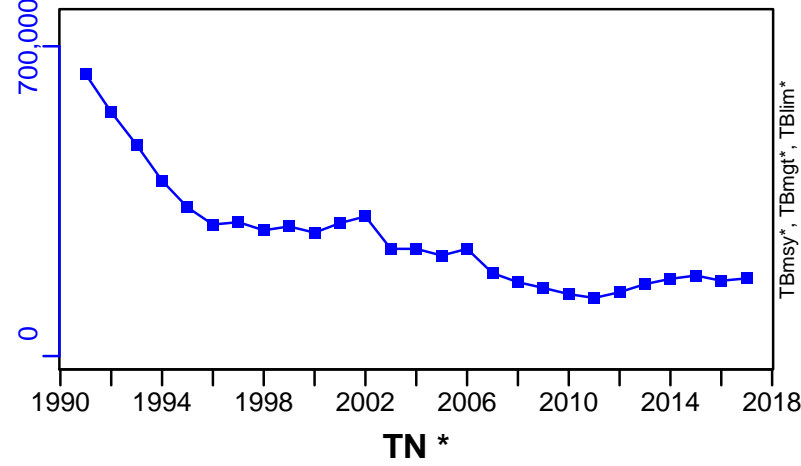
Production (1991-2018-ICESIMP2018)



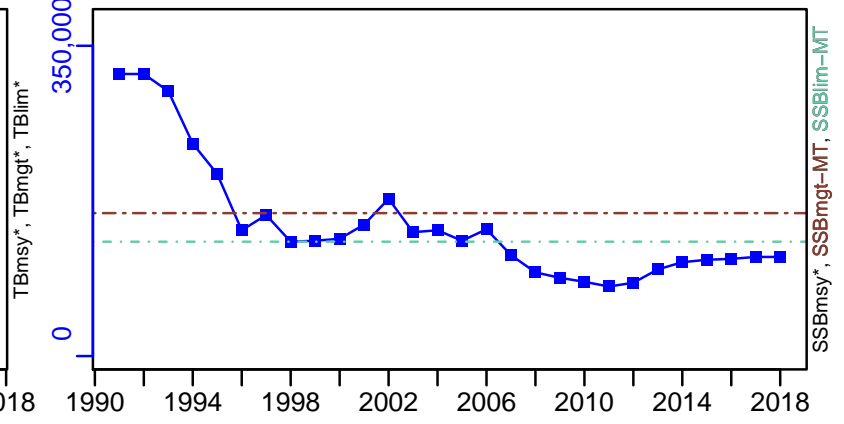
◆ Start Year ◆ End Year * No Data

Herring ICES 22–24–IIIa [HERR2224IIIa]

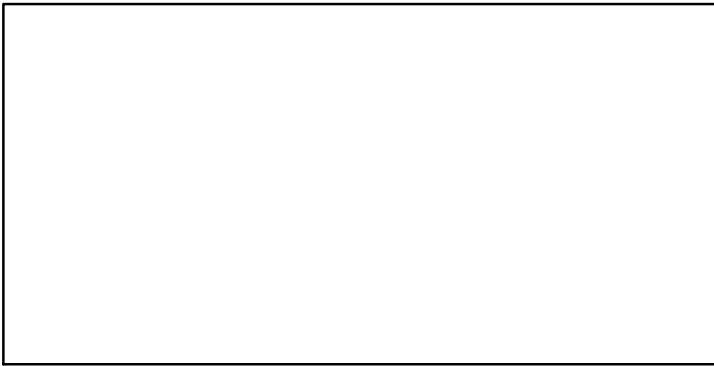
TB–MT (1991–2018–ICESIMP2018)



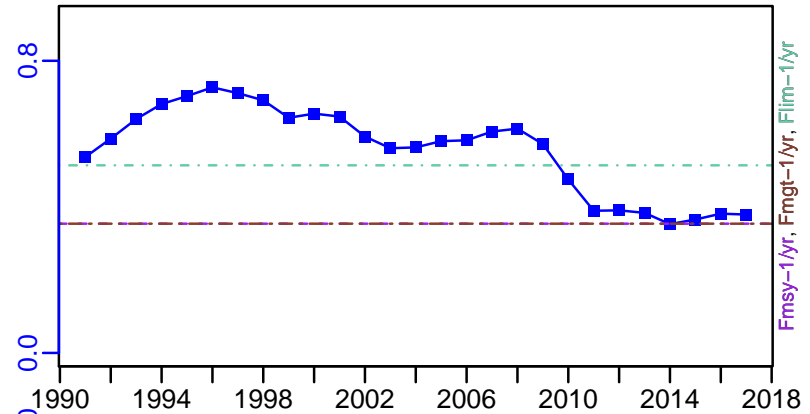
SSB–MT (1991–2018–ICESIMP2018)



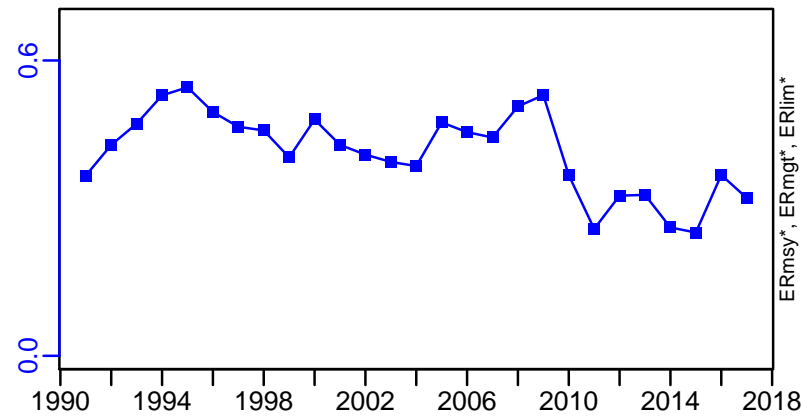
TN *



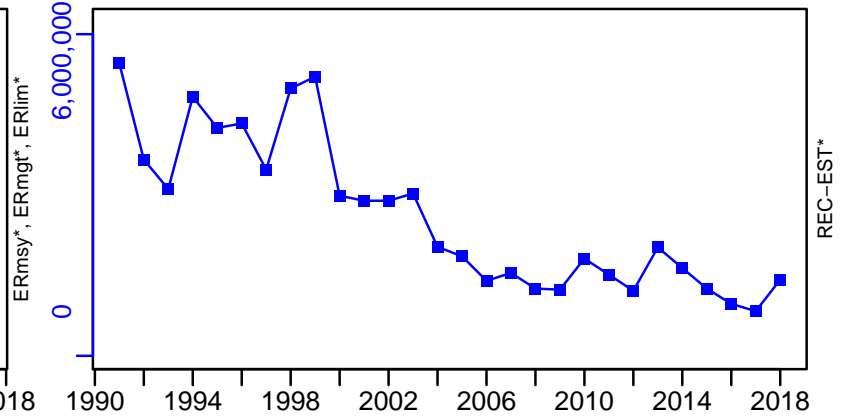
F–1/yr (1991–2018–ICESIMP2018)



ER–calc–ratio (1991–2018–ICESIMP2018)



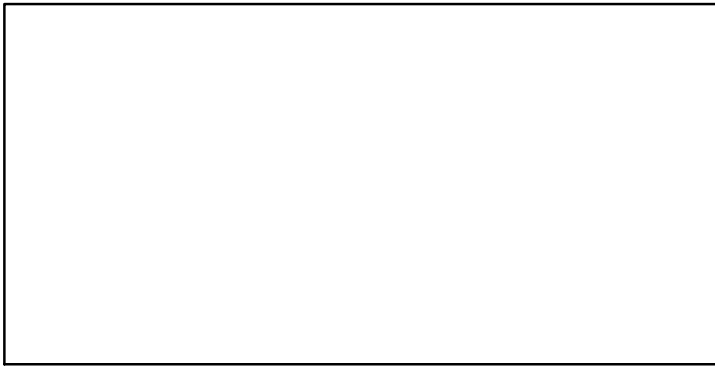
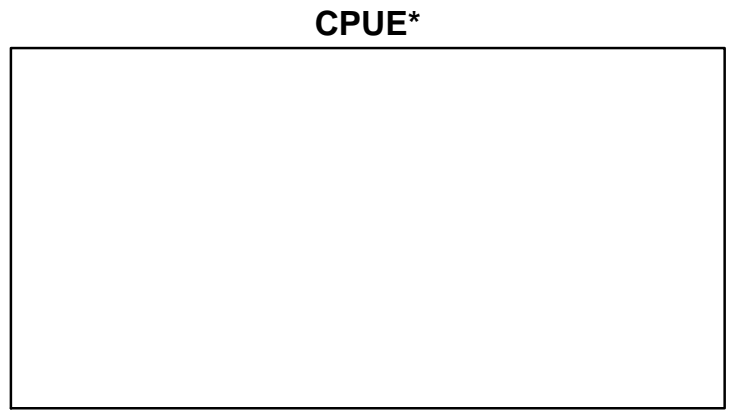
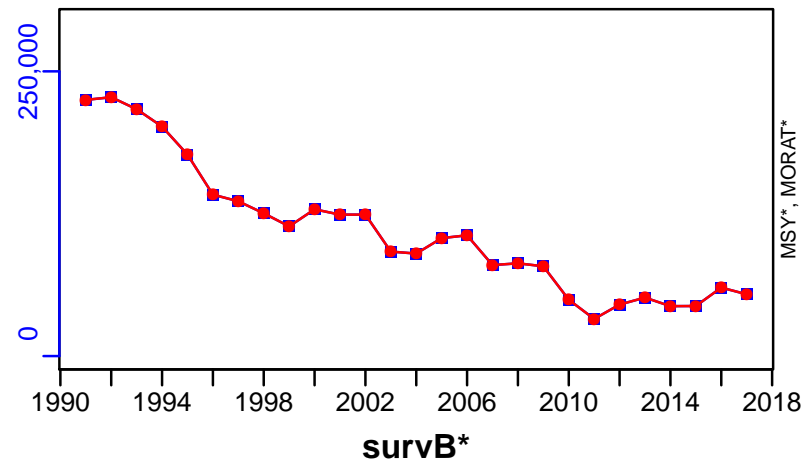
R–E00 (1991–2018–ICESIMP2018)



Herring ICES 22-24-IIIa [HERR2224IIIa]

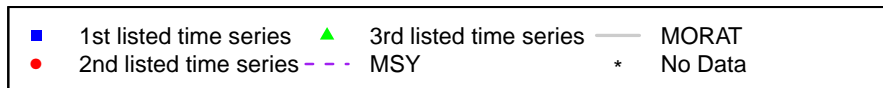
TC-MT, TL-MT, RecC* (1991-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



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

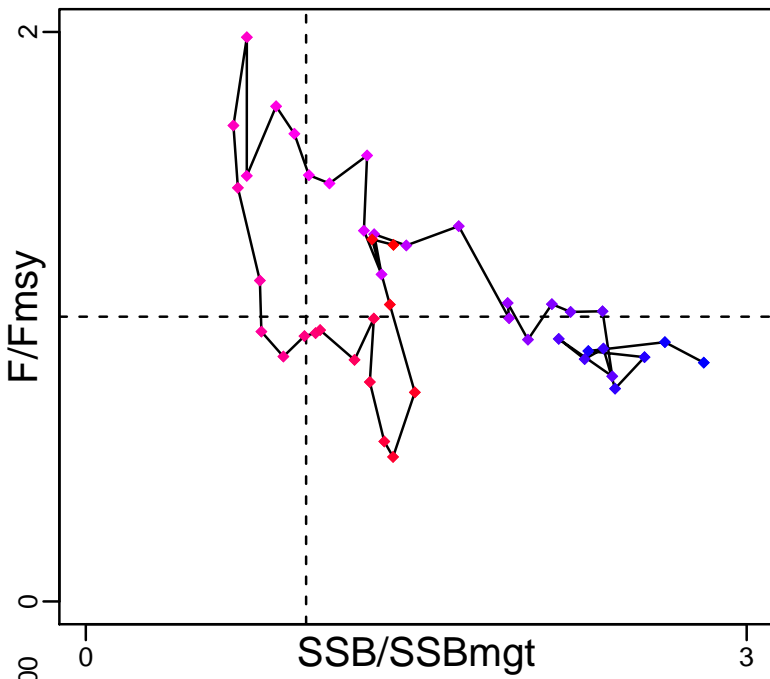
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR2529-32-1973-2018-ICESIMP2018
Area	Subdivisions 25-29 and 32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018

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

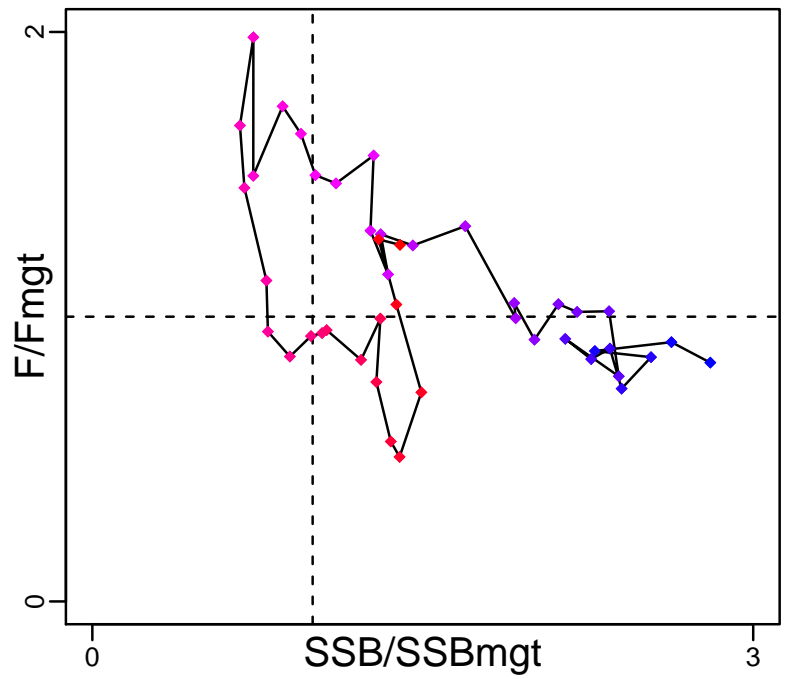
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	1,550,000	Both	-
SSB	SSB-MT	2018	809,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.74×10^{10}	-	1
F	F-1/yr	2018	0.276	-	3 to 6
ER	ER-calc-ratio	2018	0.124	-	-
TC	TC-MT	2018	203,000		
TL	TL-MT	2018	203,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.252		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.348		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.252		
ER/ERmgt	-	-	-		

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

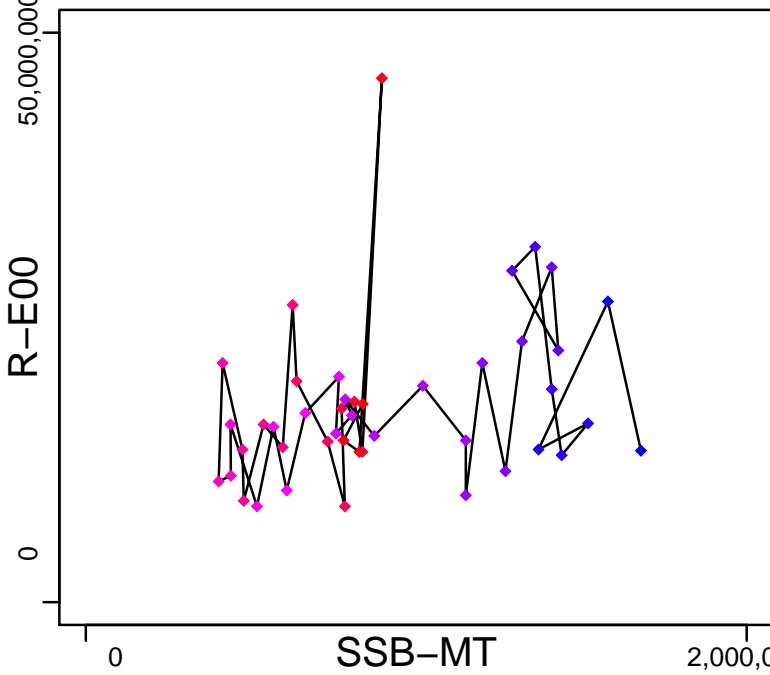
Kobe MSYpref (1973–2018–ICESIMP2018)



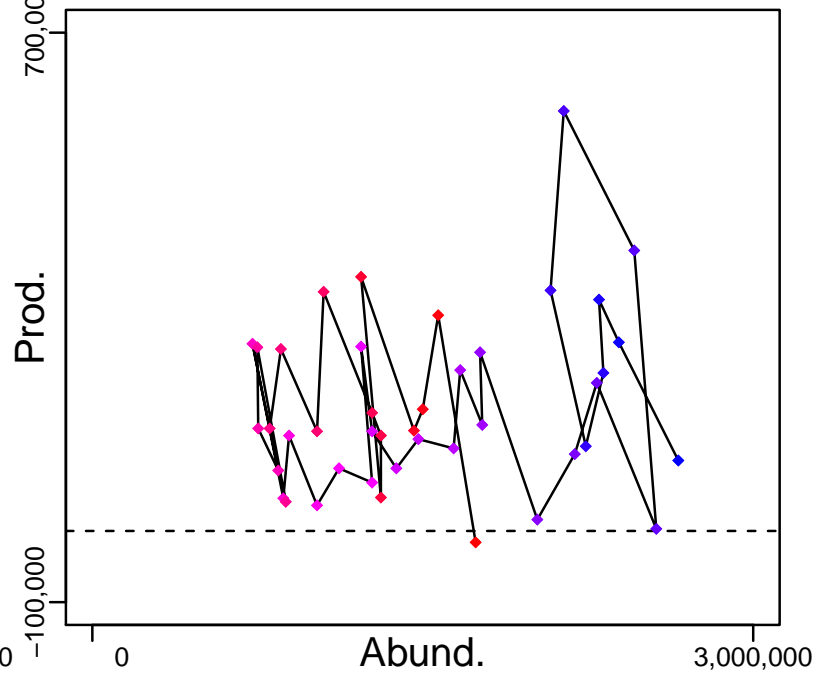
Kobe MGTpref (1973–2018–ICESIMP2018)



Spawner Recruit (1973–2018–ICESIMP2018)

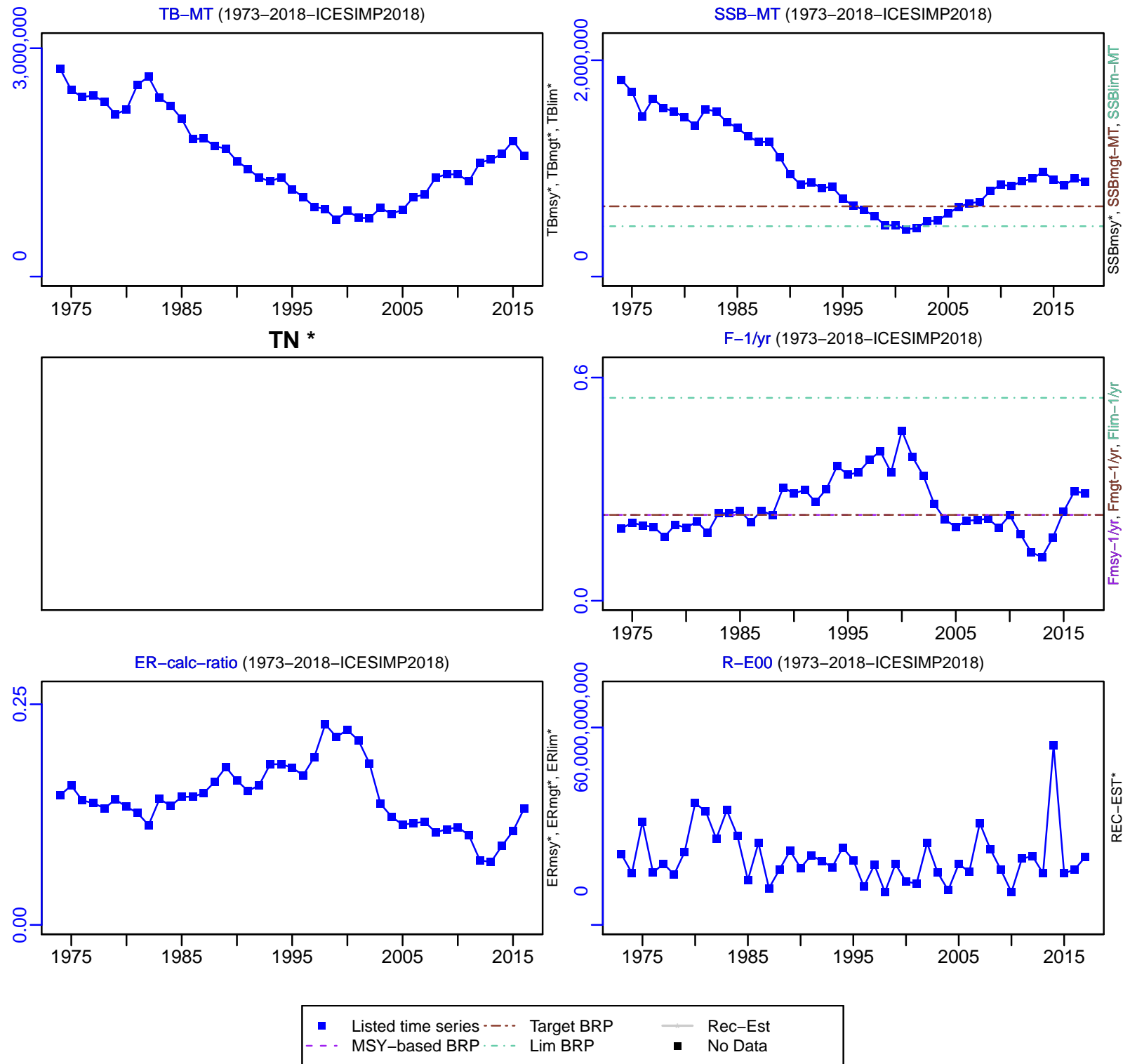


Production (1973–2018–ICESIMP2018)



◆ Start Year ◆ End Year * No Data

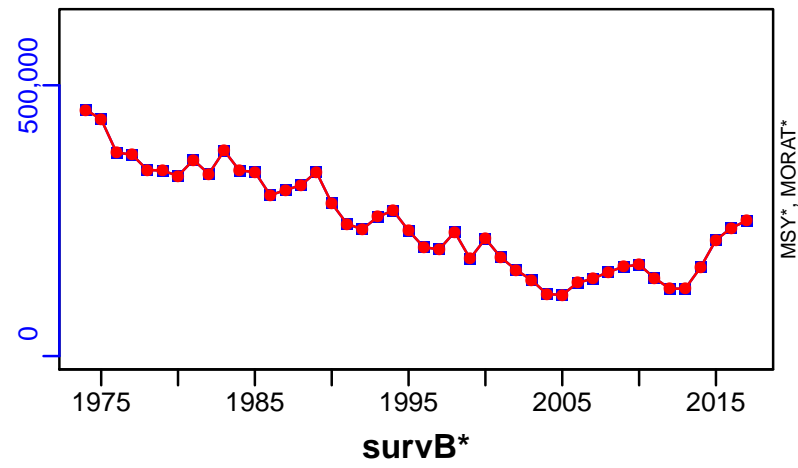
Herring Subdivisions 25–29 and 32 [HERR2529–32]



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

TC–MT, TL–MT, RecC* (1973–2018–ICESIMP2018)

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

CdivMSY*

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

Herring Subdivisions 30-31 [HERR30-31]

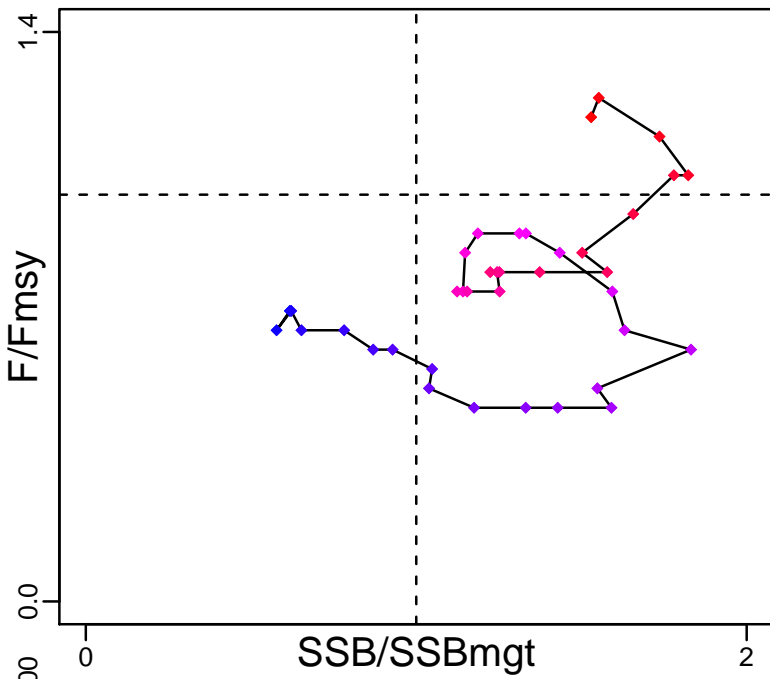
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR30-31-1979-2018-ICESIMP2018
Area	Subdivisions 30-31
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2017, 2018

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

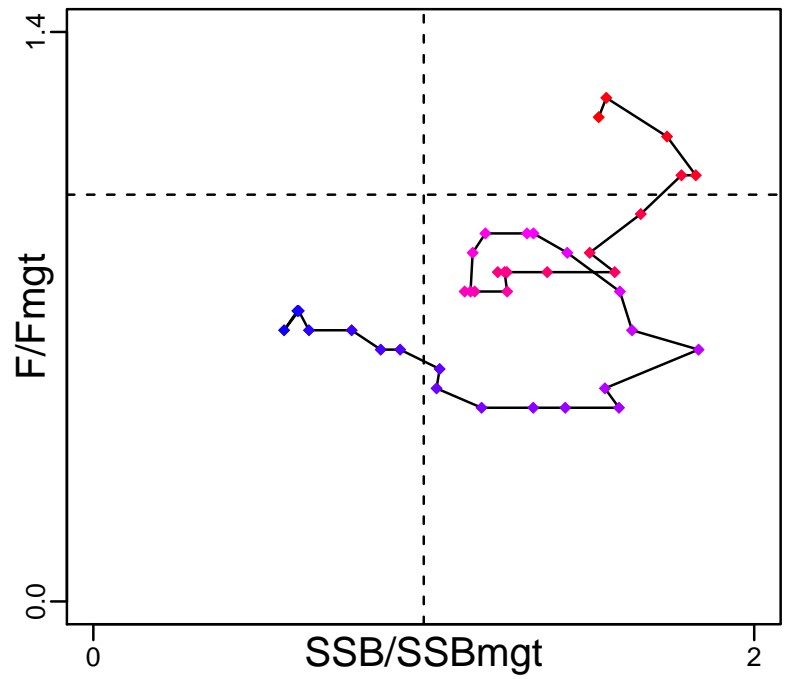
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	704,000	Both	-
SSB	SSB-MT	2018	422,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.61×10^9	-	1
F	F-1/yr	2018	0.25	-	3 to 7
ER	ER-calc-ratio	2017	0.185	-	-
TC	TC-MT	2017	130,000		
TL	TL-MT	2018	104,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.19		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.489		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.19		
ER/ERmgt	-	-	-		

Herring Subdivisions 30-31 [HERR30-31]

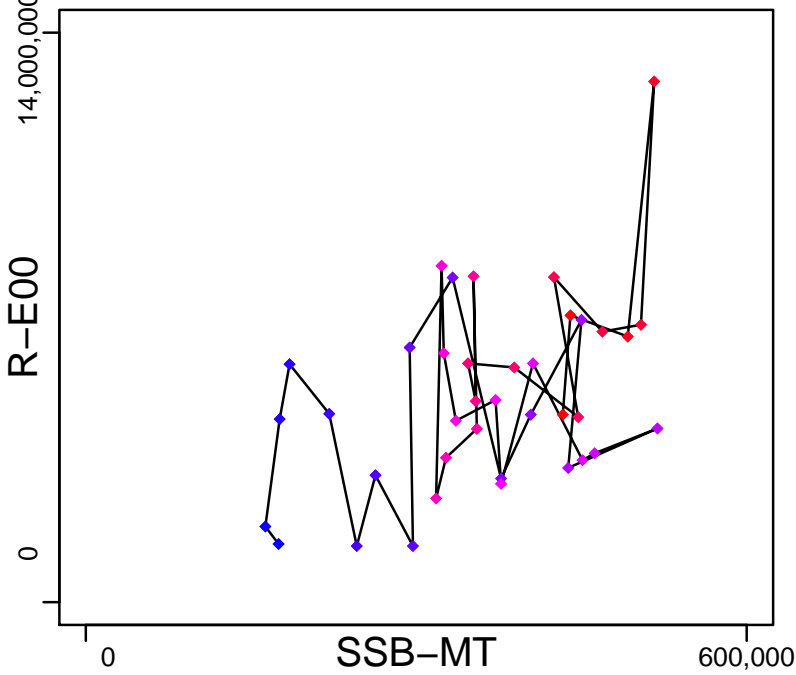
Kobe MSYpref (1979-2018-ICESIMP2018)



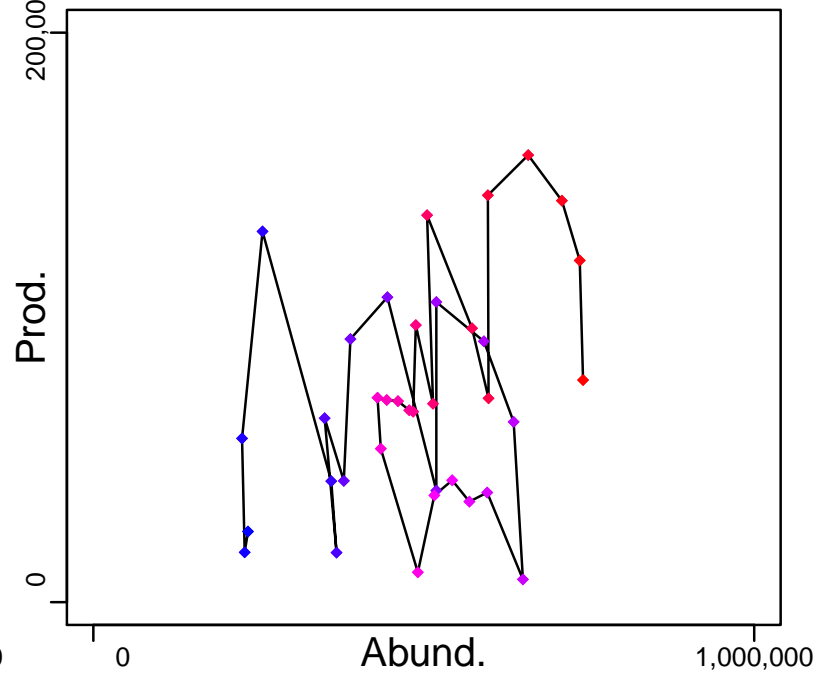
Kobe MGTpref (1979-2018-ICESIMP2018)



Spawner Recruit (1979-2018-ICESIMP2018)



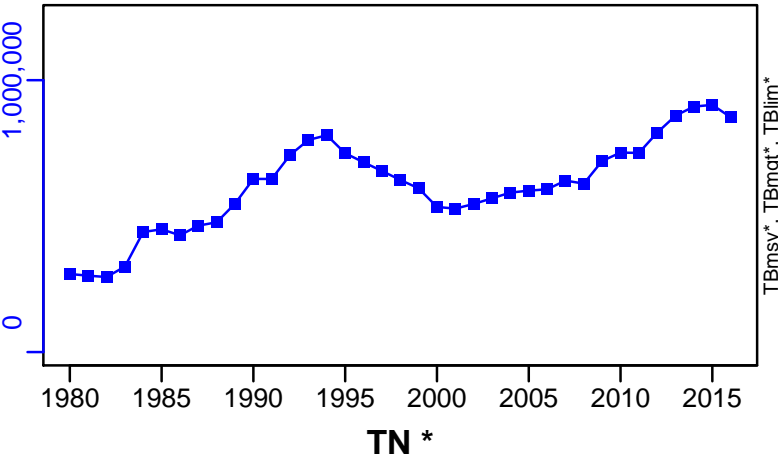
Production (1979-2017-ICESIMP2018)



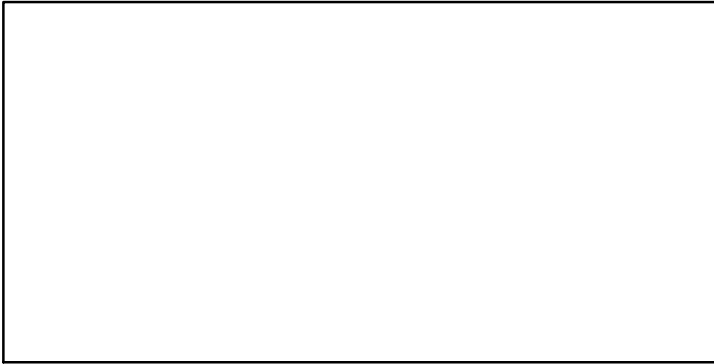
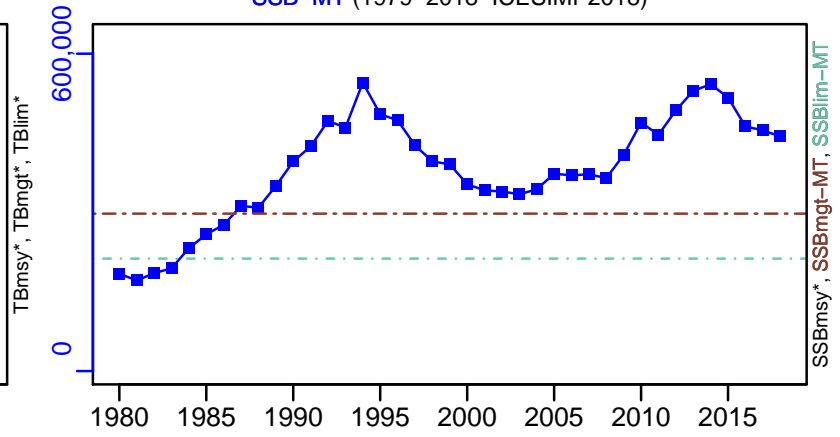
◆ Start Year ◆ End Year * No Data

Herring Subdivisions 30-31 [HERR30-31]

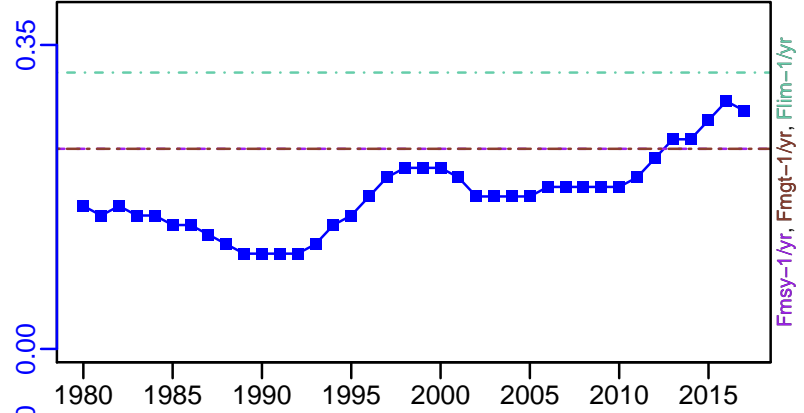
TB-MT (1979-2017-ICESIMP2018)



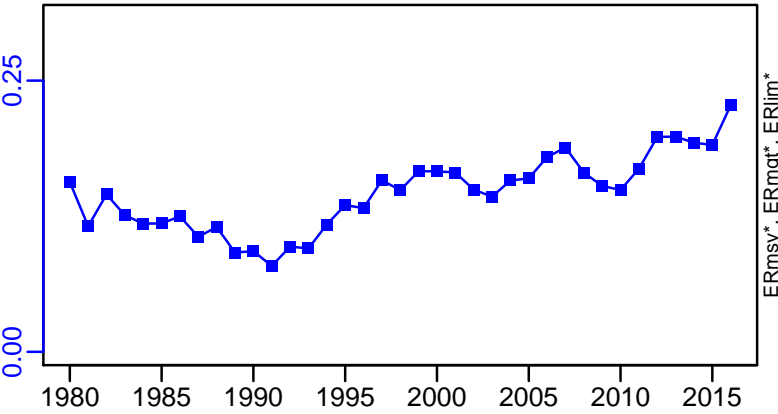
SSB-MT (1979-2018-ICESIMP2018)



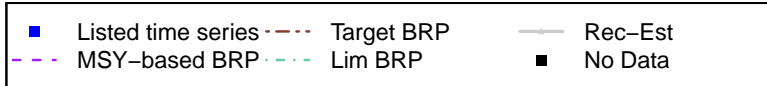
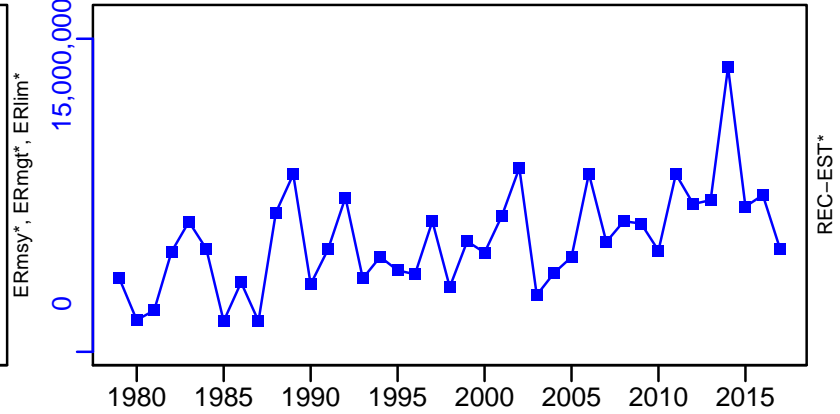
F-1/yr (1979-2018-ICESIMP2018)



ER-calc-ratio (1979-2017-ICESIMP2018)

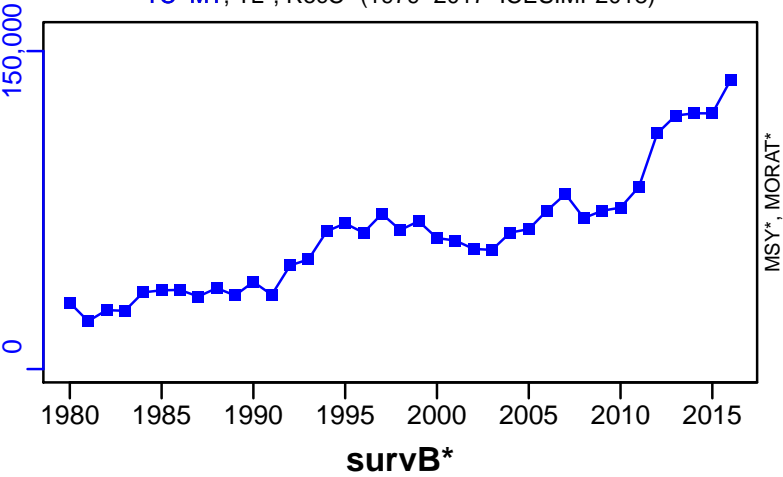


R-E00 (1979-2018-ICESIMP2018)



Herring Subdivisions 30-31 [HERR30-31]

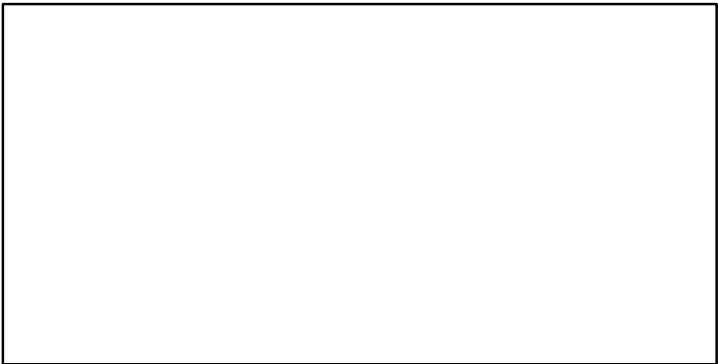
TC-MT, TL*, RecC* (1979-2017-ICESIMP2018)



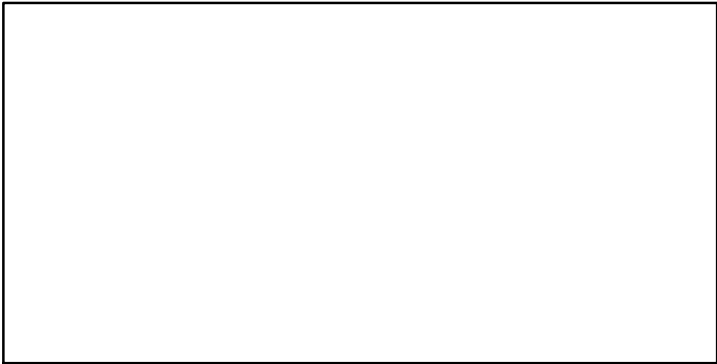
TAC*, Cpair*, Cadv*



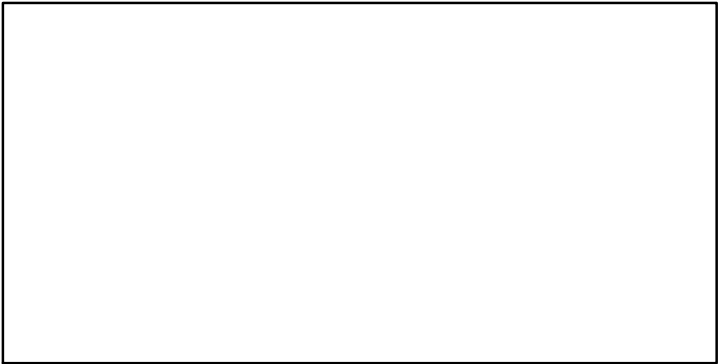
CPUE*



EFFORT*



CdivMSY*



Herring Northern Irish Sea [HERRNIRS]

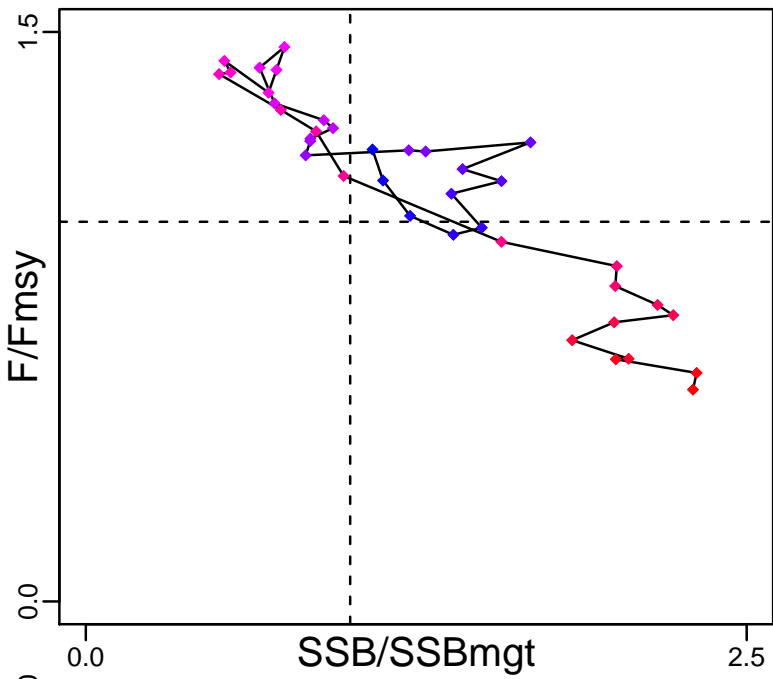
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNIRS-1979-2018-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

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

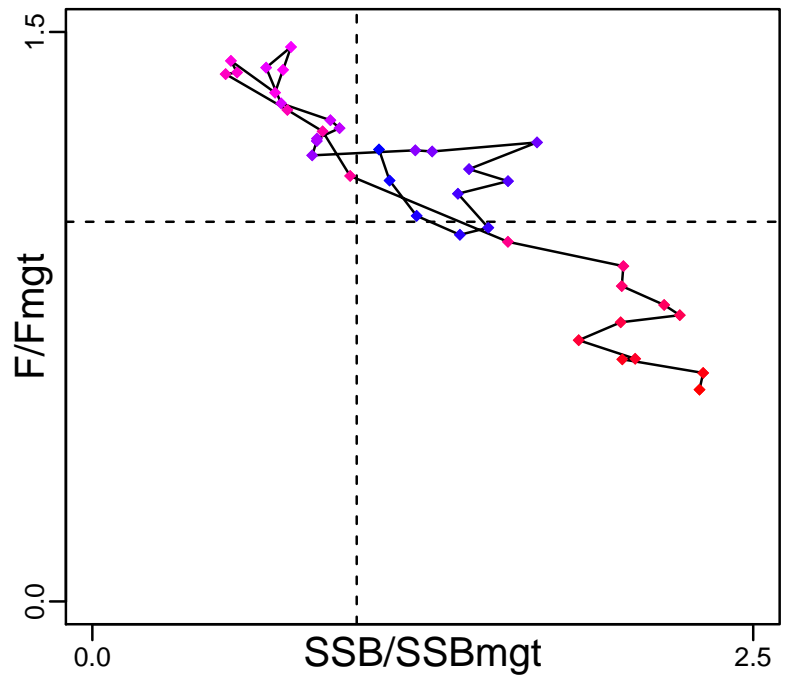
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	49,000	Both	-
SSB	SSB-MT	2018	22,500	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3.1×10^8	-	1
F	F-1/yr	2018	0.148	-	4 to 6
ER	ER-calc-ratio	2018	0.08	-	-
TC	TC-MT	2018	3900		
TL	TL-MT	2018	3900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.558		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.901		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.558		
ER/ERmgt	-	-	-		

Herring Northern Irish Sea [HERRNIRS]

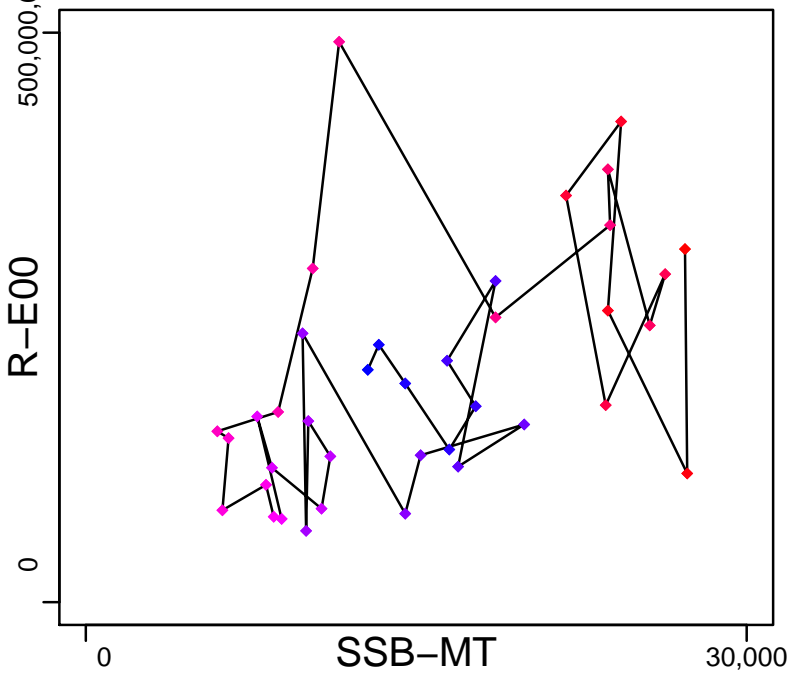
Kobe MSYpref (1979–2018–ICESIMP2018)



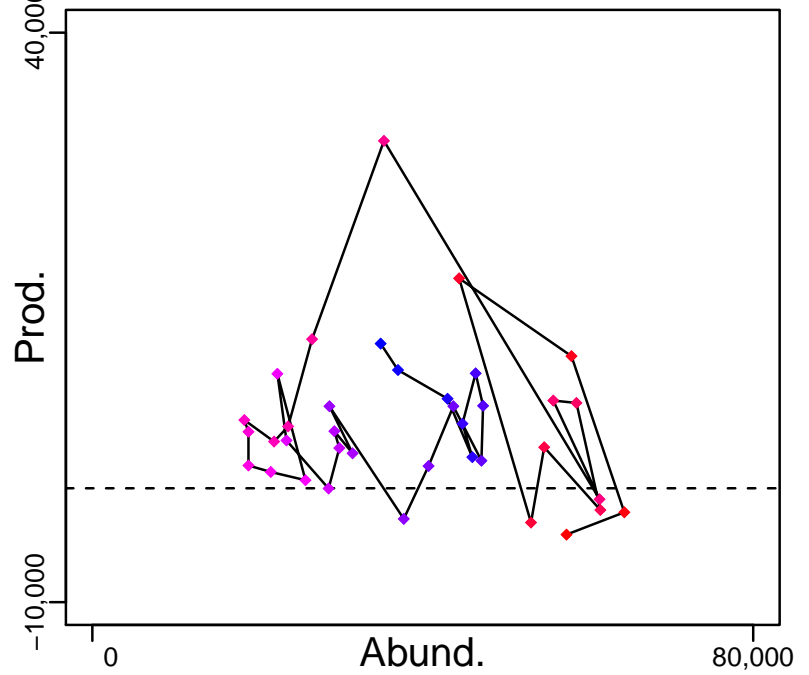
Kobe MGTpref (1979–2018–ICESIMP2018)



Spawner Recruit (1979–2018–ICESIMP2018)



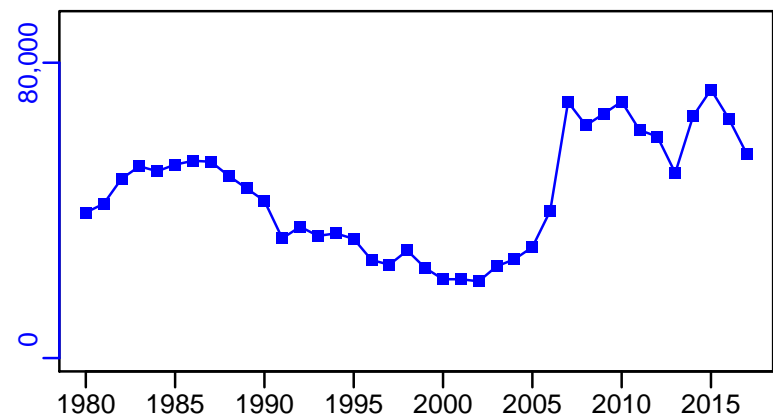
Production (1979–2018–ICESIMP2018)



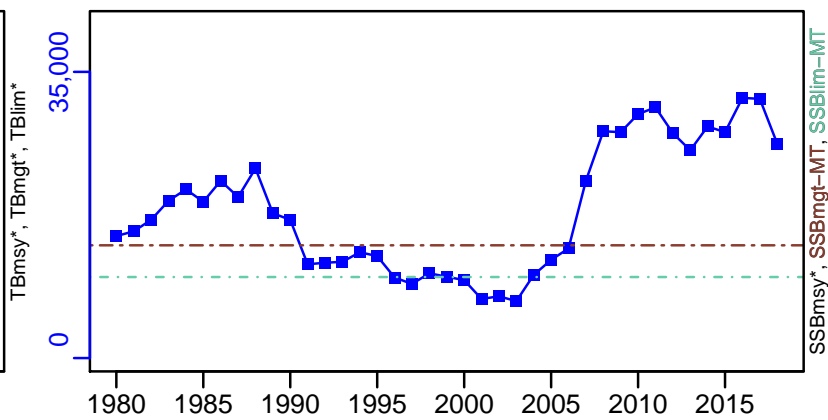
◆ Start Year ◆ End Year * No Data

Herring Northern Irish Sea [HERRNIRS]

TB-MT (1979–2018–ICESIMP2018)



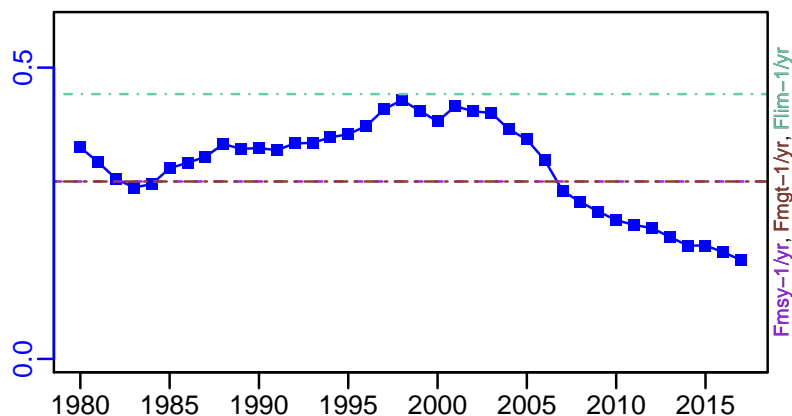
SSB-MT (1979–2018–ICESIMP2018)



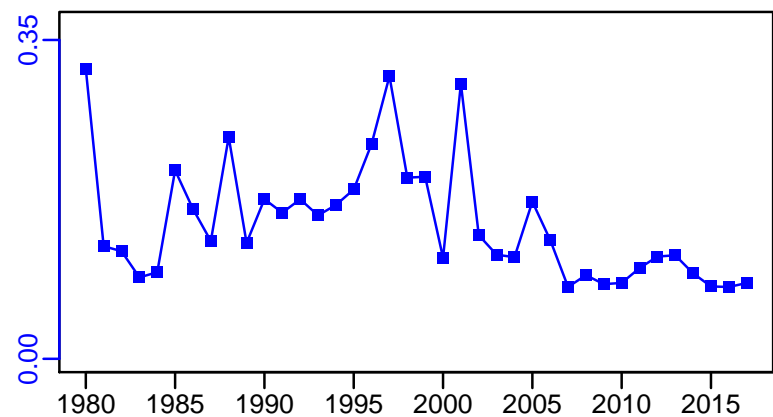
TN *



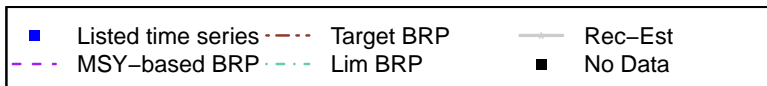
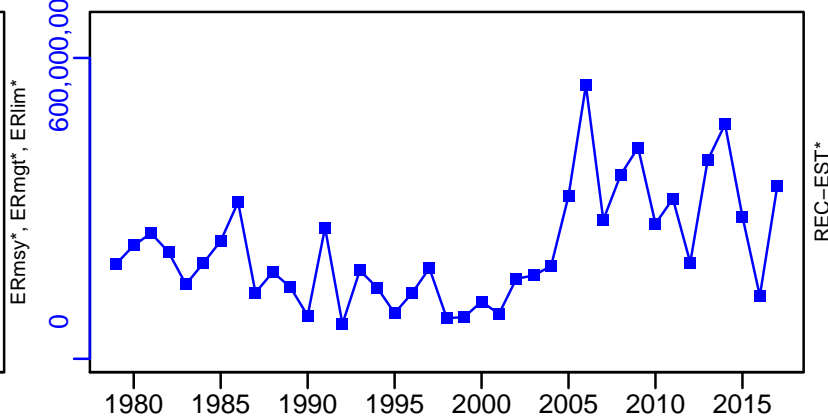
F-1/yr (1979–2018–ICESIMP2018)



ER-calc-ratio (1979–2018–ICESIMP2018)

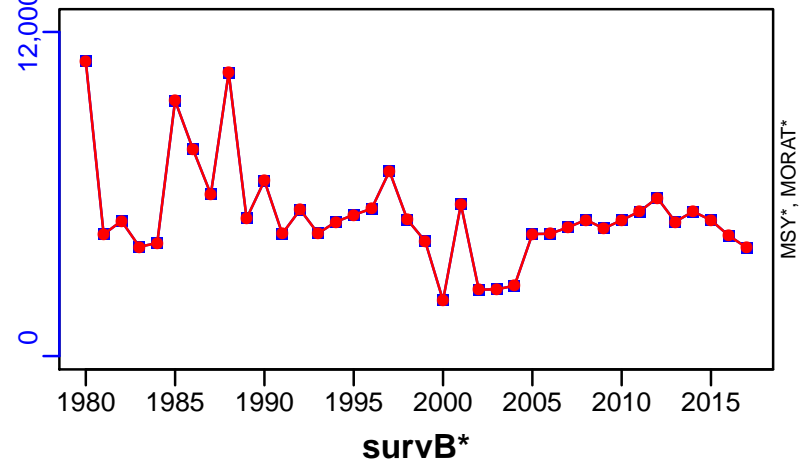


R-E00 (1979–2018–ICESIMP2018)



Herring Northern Irish Sea [HERRNIRS]

TC-MT, TL-MT, RecC* (1979-2018-ICESIMP2018)



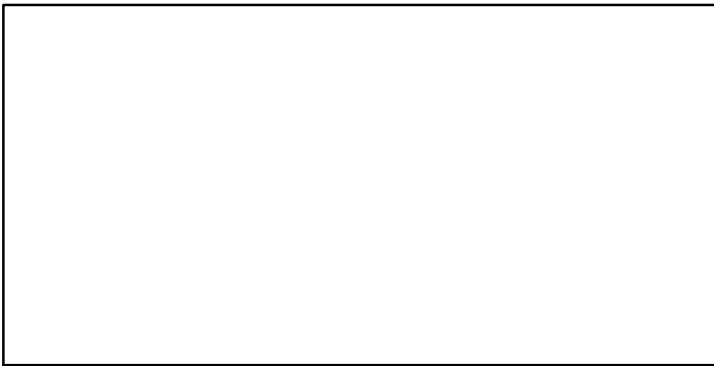
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]

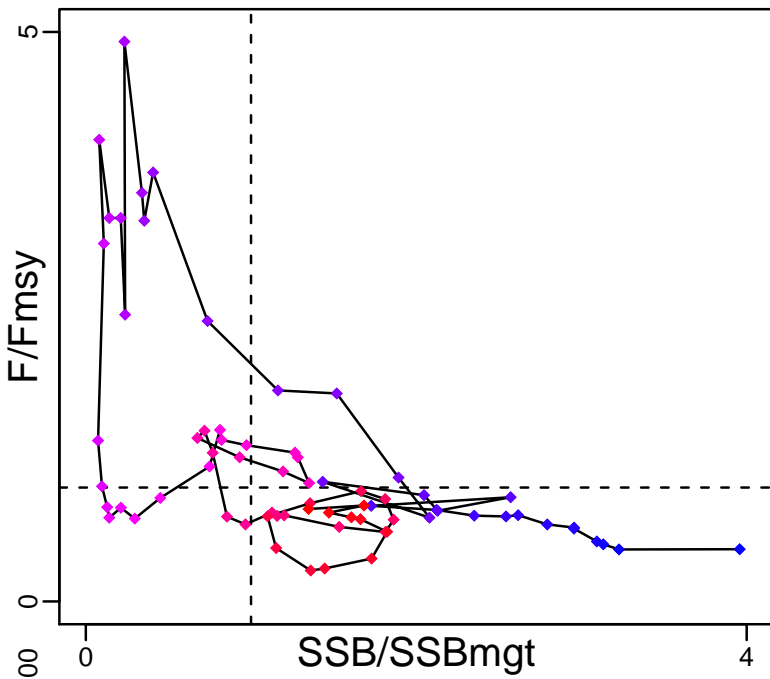
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNS-IIIa-VIId-1947-2018-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

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

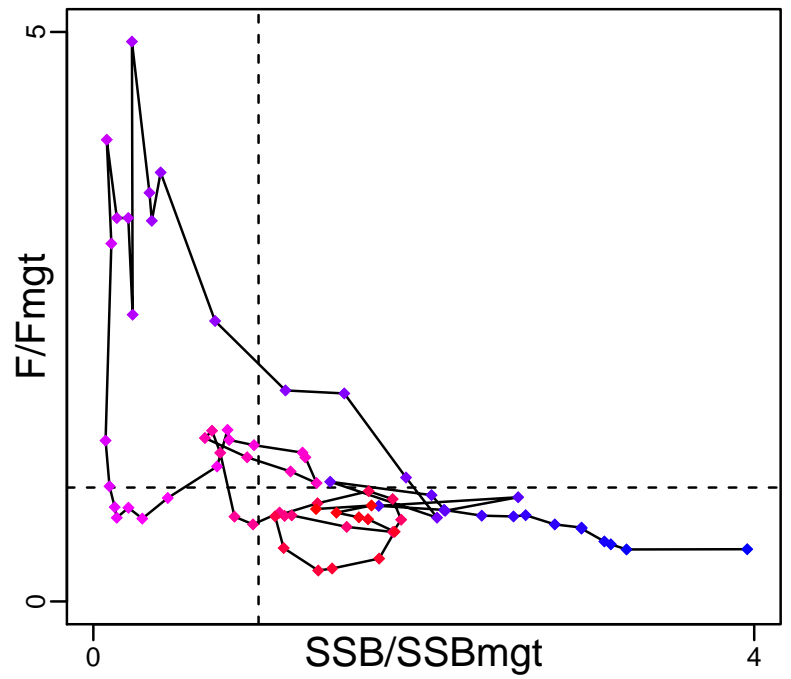
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3,130,000	Both	-
SSB	SSB-MT	2018	1,530,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3.57×10^{10}	-	0
F	F-1/yr	2018	0.211	-	2 to 6
ER	ER-calc-ratio	2018	0.136	-	-
TC	TC-MT	2018	498,000		
TL	TL-MT	2017	564,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.812		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.092		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.812		
ER/ERmgt	-	-	-		

Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]

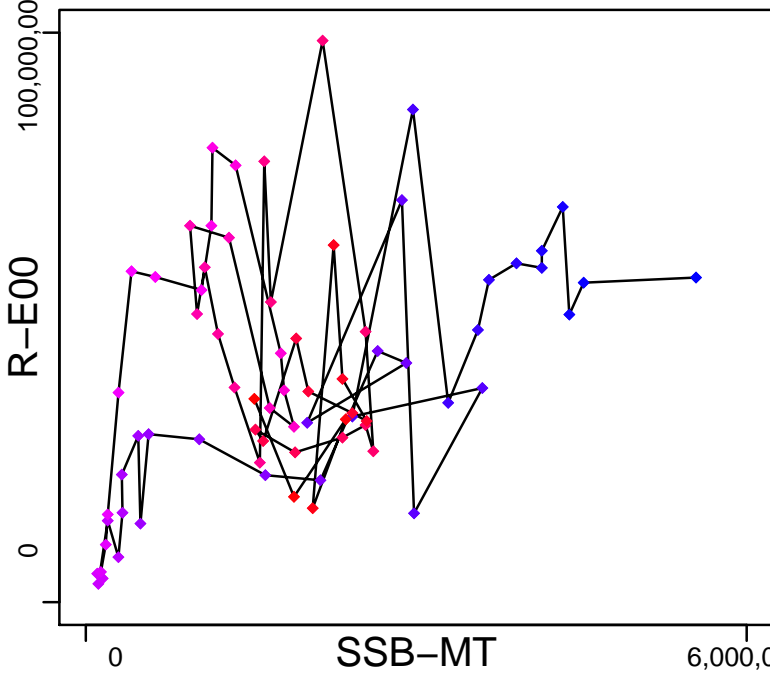
Kobe MSYpref (1947–2018–ICESIMP2018)



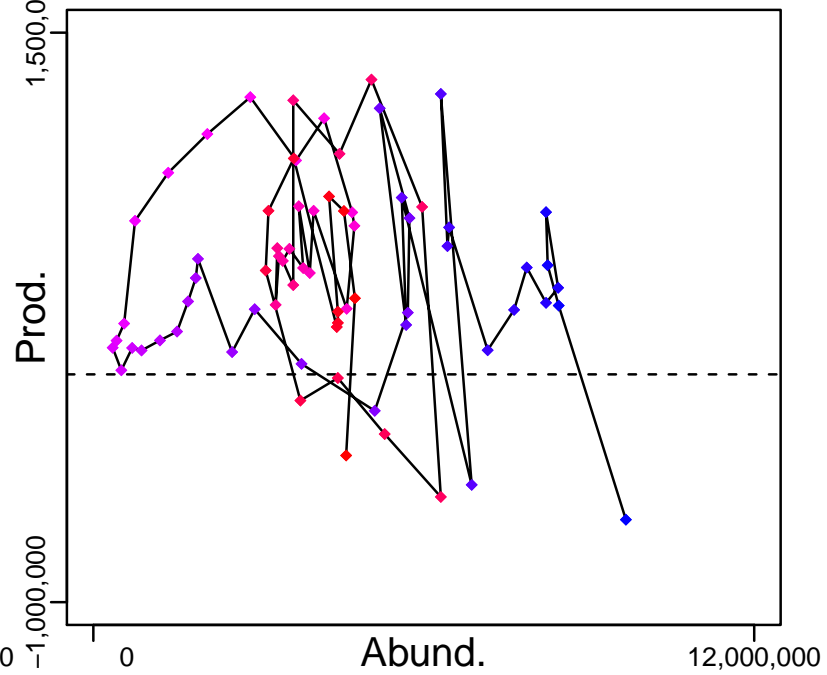
Kobe MGTpref (1947–2018–ICESIMP2018)



Spawner Recruit (1947–2018–ICESIMP2018)



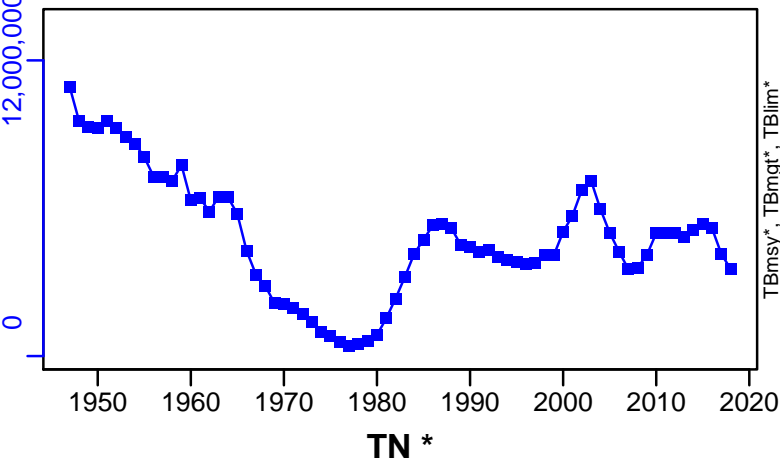
Production (1947–2018–ICESIMP2018)



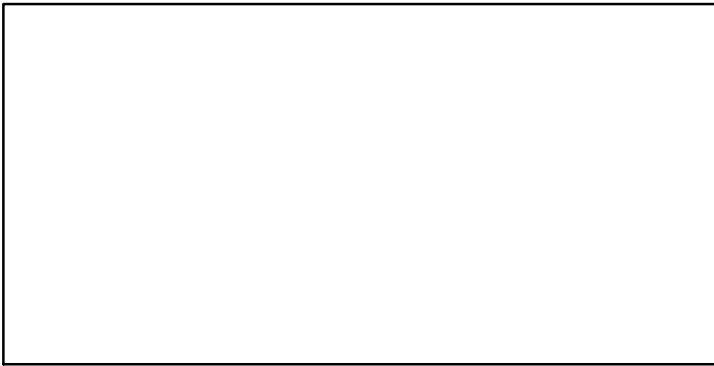
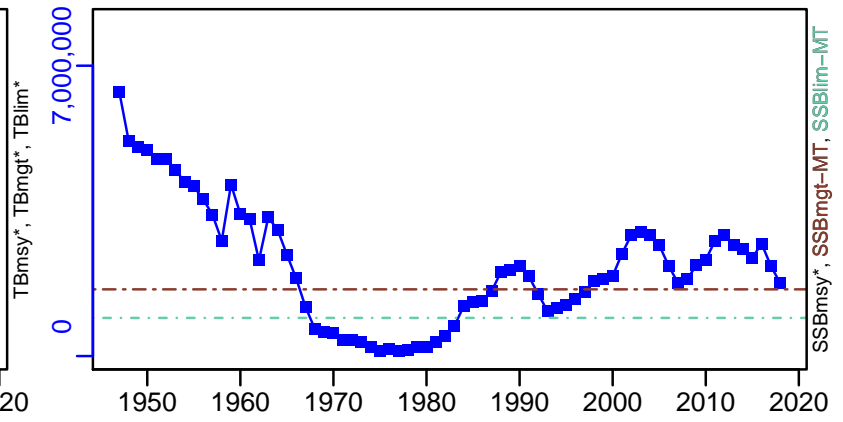
◆ Start Year ◆ End Year * No Data

Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]

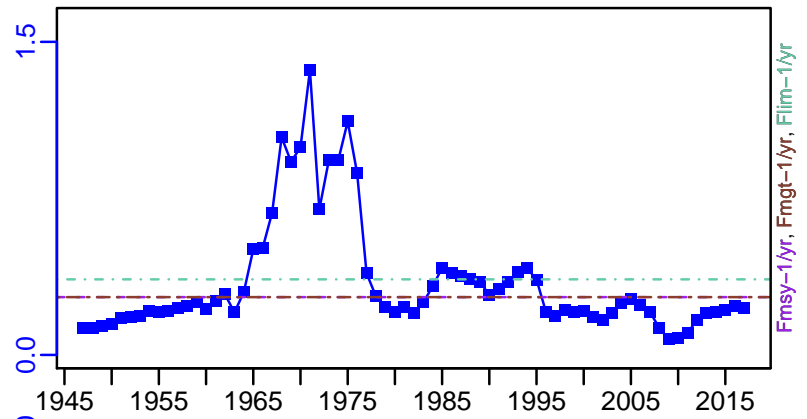
TB-MT (1947–2018–ICESIMP2018)



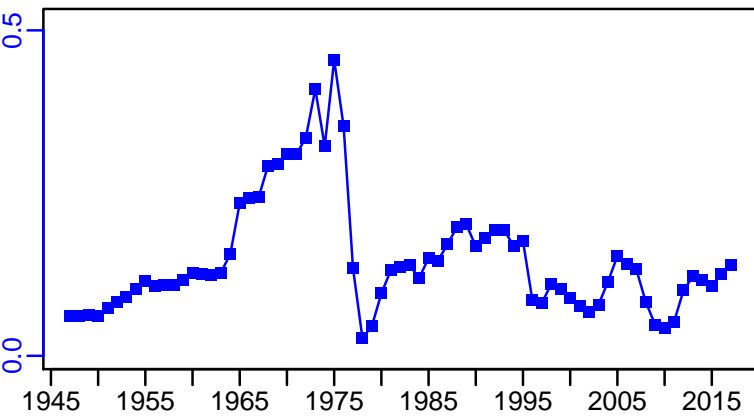
SSB-MT (1947–2018–ICESIMP2018)



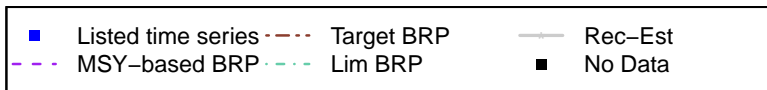
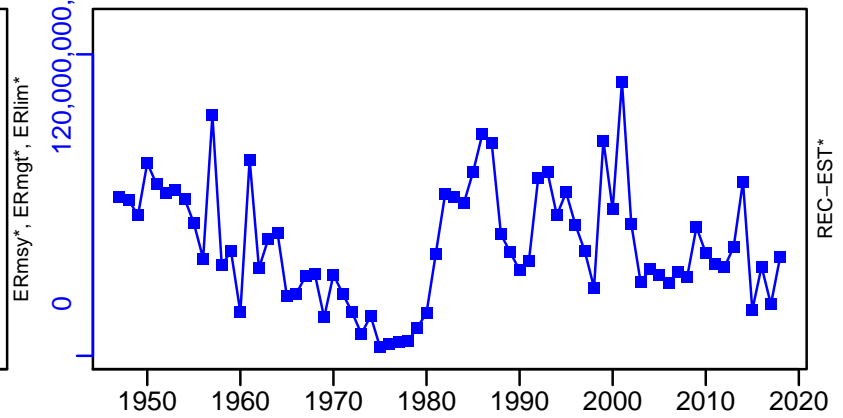
F-1/yr (1947–2018–ICESIMP2018)



ER-calc-ratio (1947–2018–ICESIMP2018)



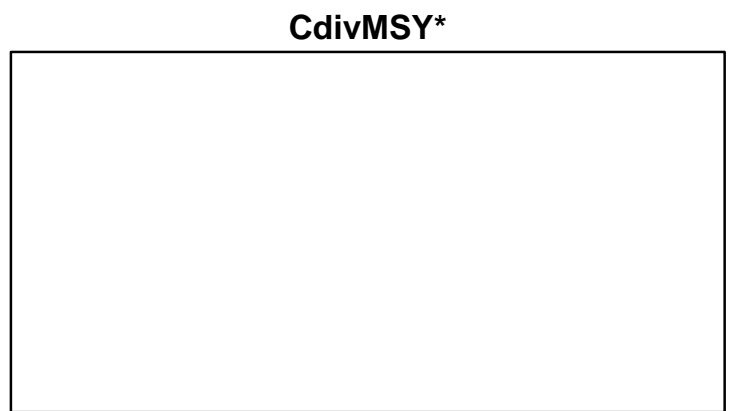
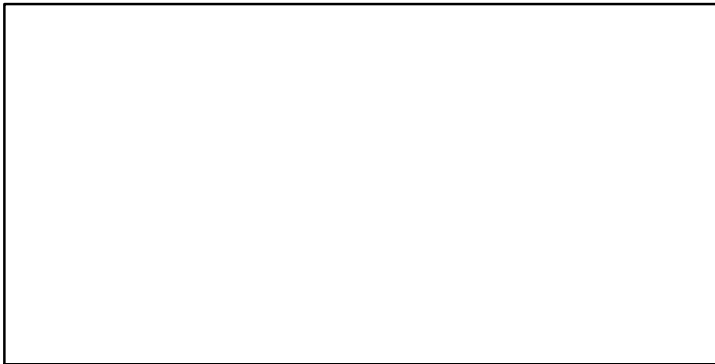
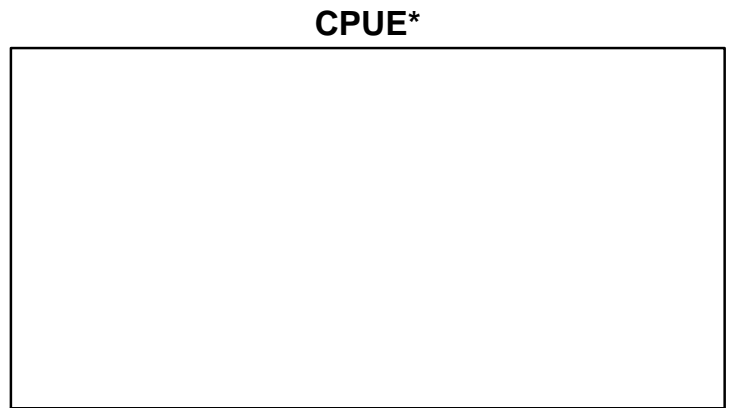
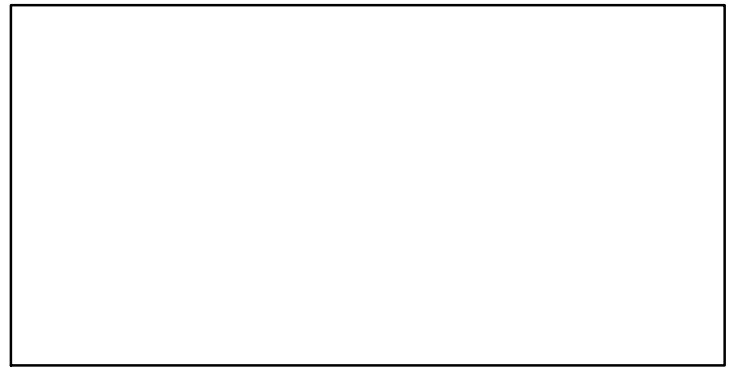
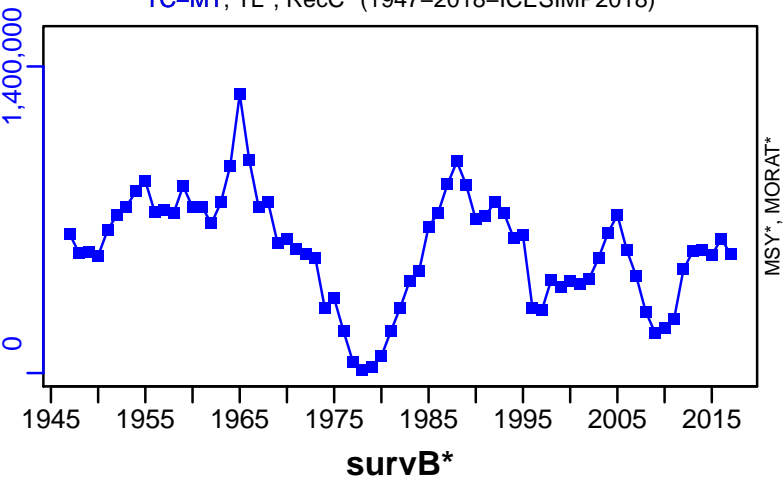
R-E00 (1947–2018–ICESIMP2018)



Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]

TC-MT, TL*, RecC* (1947-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*

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

Herring ICES 28 [HERRRIGA]

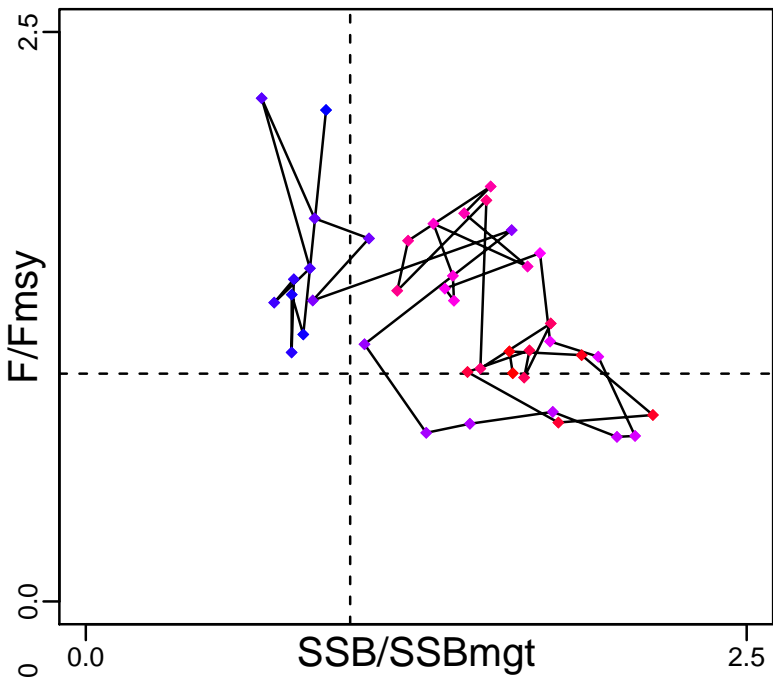
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERRRIGA-1976-2018-ICESIMP2018
Area	Gulf of Riga East of Gotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018

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

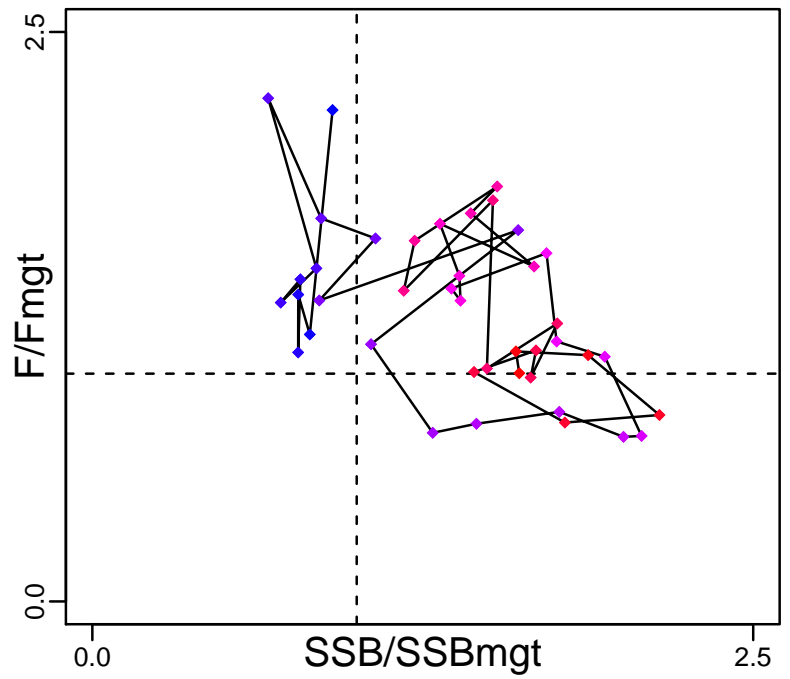
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	132,000	Both	-
SSB	SSB-MT	2018	90,100	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3.06×10^9	-	1
F	F-1/yr	2018	0.321	-	3 to 7
ER	ER-calc-ratio	2018	0.212	-	-
TC	TC-MT	2017	30,900		
TL	TL-MT	2018	28,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	1.262		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.002		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.501		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.002		
ER/ERmgt	-	-	-		

Herring ICES 28 [HERRRIGA]

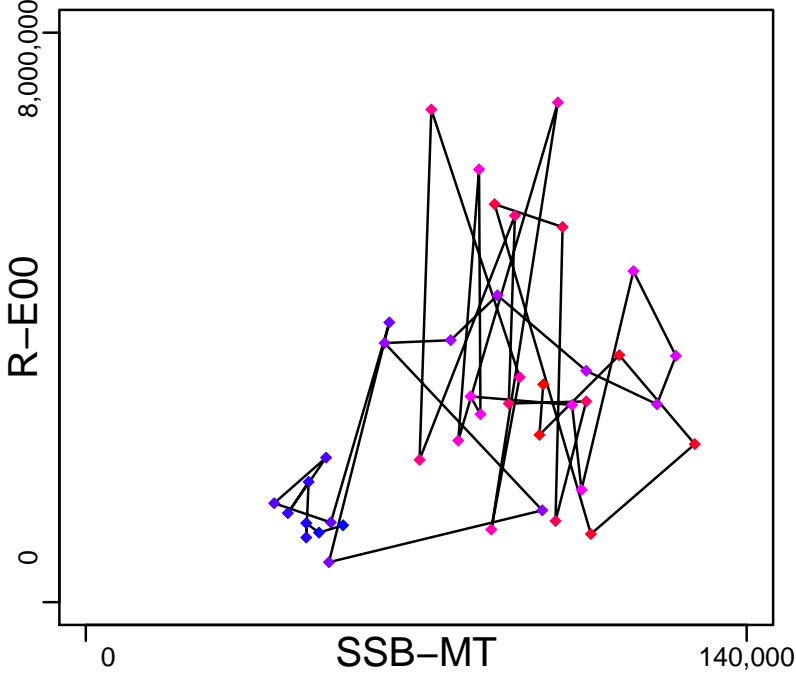
Kobe MSYpref (1976–2018–ICESIMP2018)



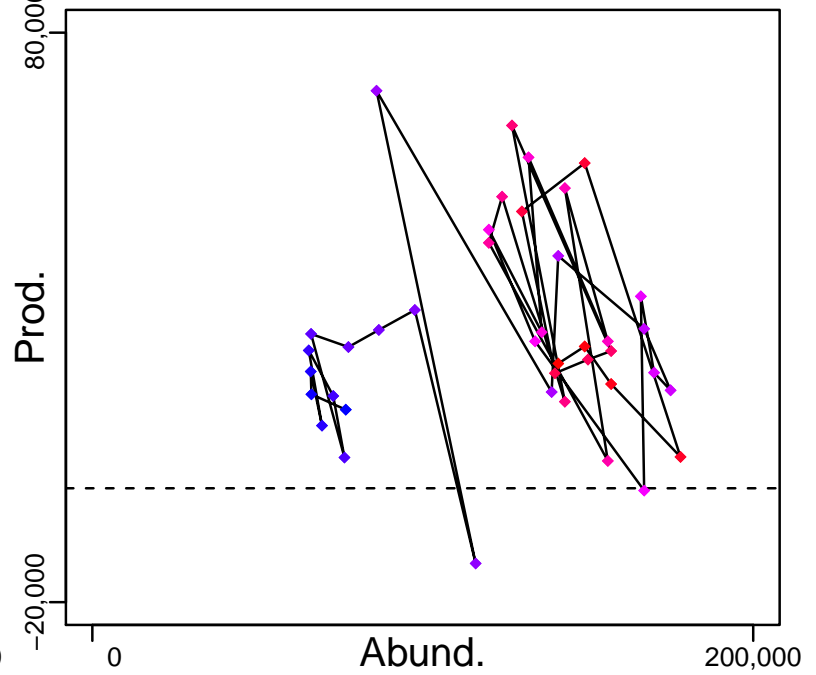
Kobe MGTpref (1976–2018–ICESIMP2018)



Spawner Recruit (1976–2018–ICESIMP2018)



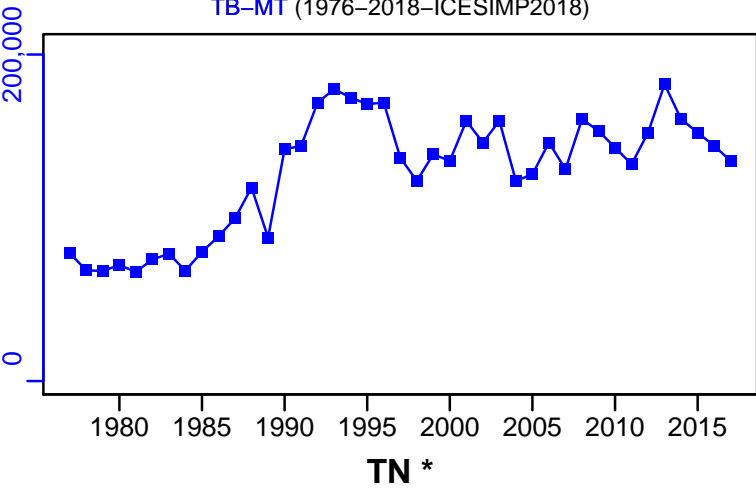
Production (1976–2018–ICESIMP2018)



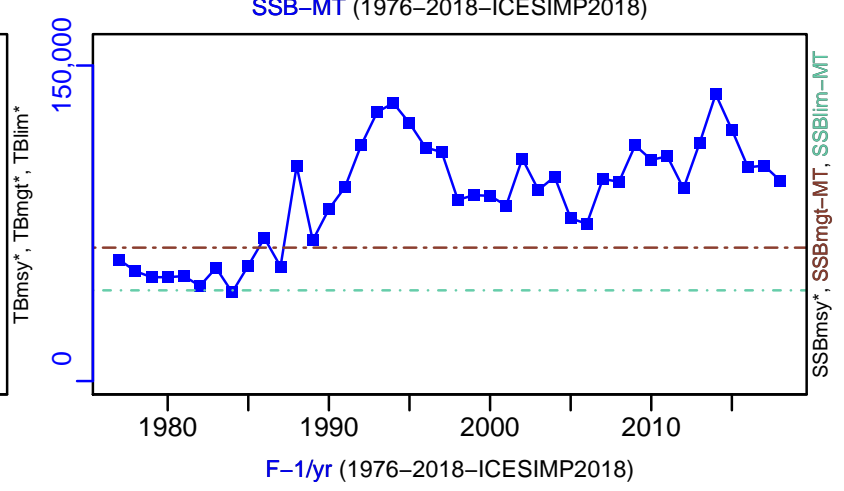
◆ Start Year ◆ End Year * No Data

Herring ICES 28 [HERRRIGA]

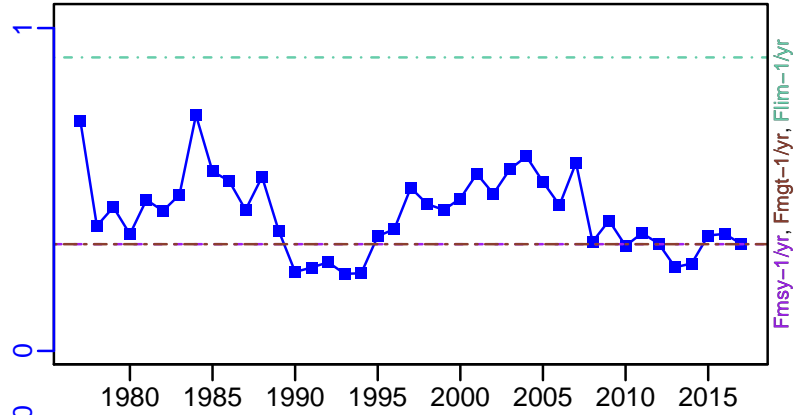
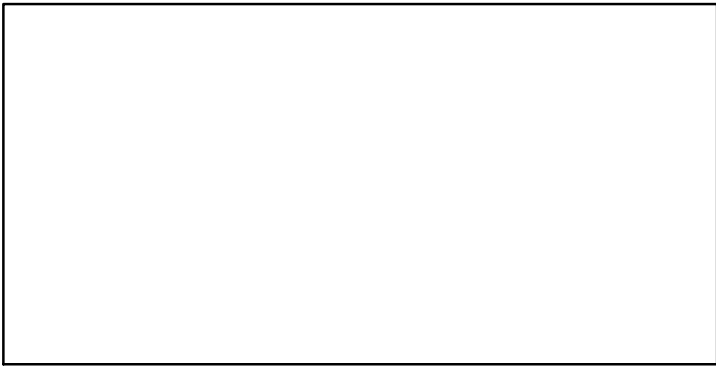
TB-MT (1976–2018–ICESIMP2018)



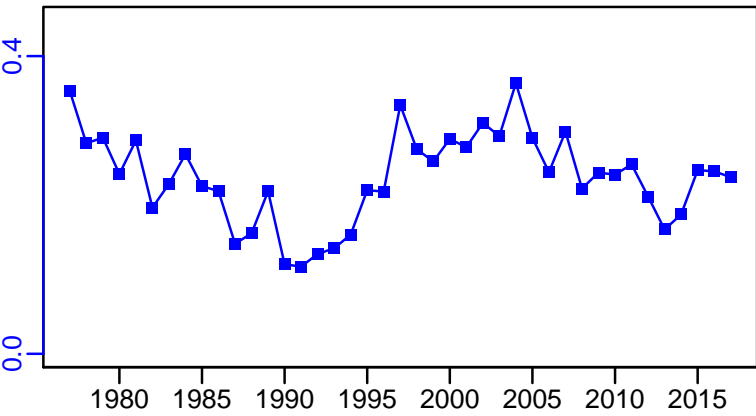
SSB-MT (1976–2018–ICESIMP2018)



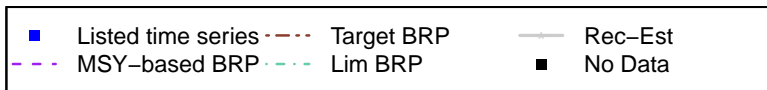
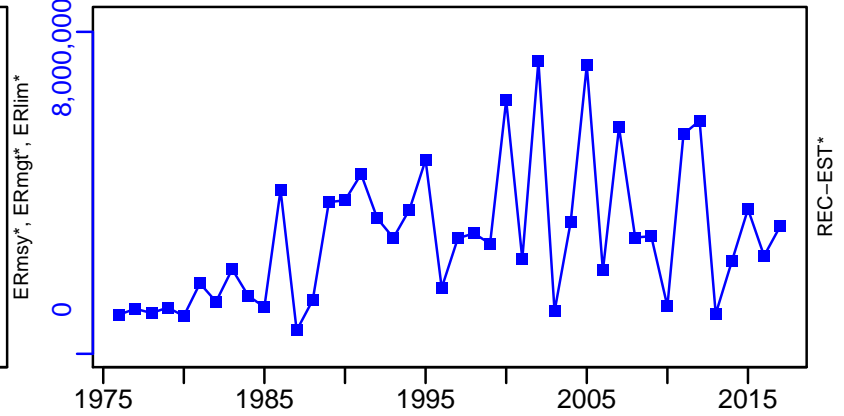
F-1/yr (1976–2018–ICESIMP2018)



ER-calc-ratio (1976–2018–ICESIMP2018)

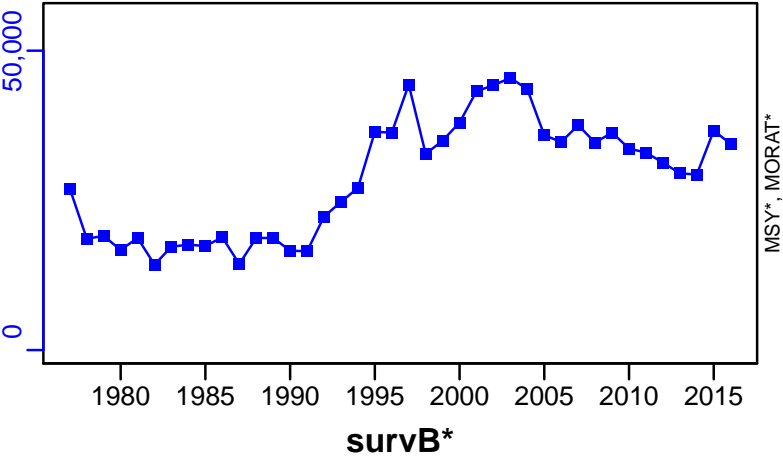


R-E00 (1976–2018–ICESIMP2018)

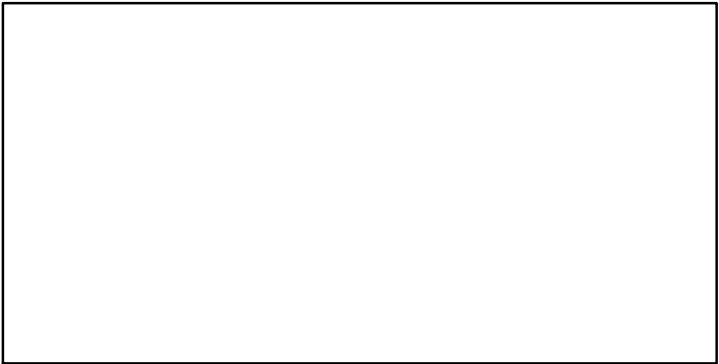


Herring ICES 28 [HERRRIGA]

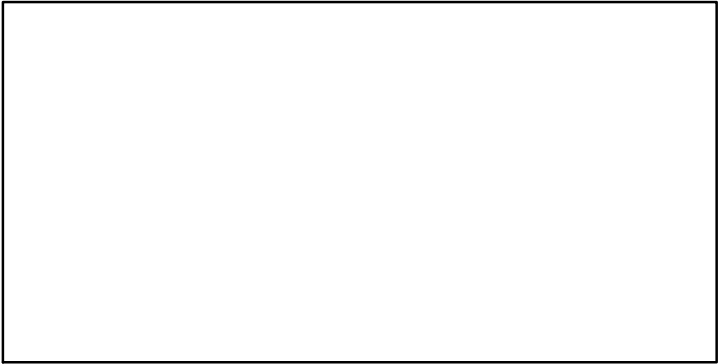
TC-MT, TL*, RecC* (1976-2017-ICESIMP2018)



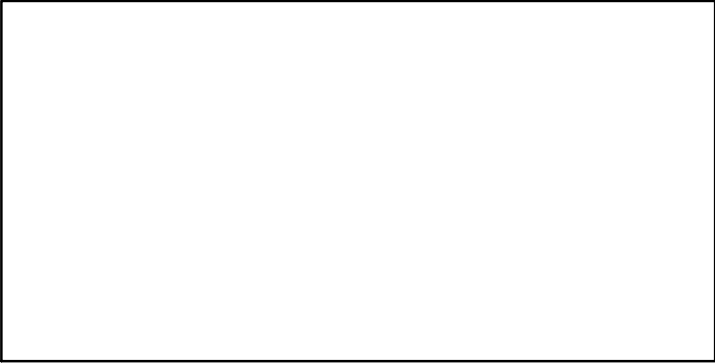
TAC*, Cpair*, Cadv*



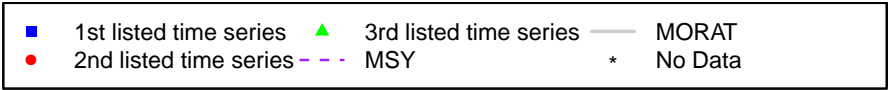
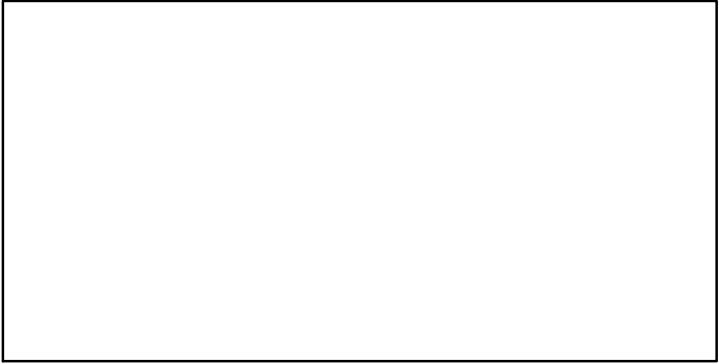
CPUE*



EFFORT*



CdivMSY*



Herring ICES VIIa-g-h-j [HERRSIRS]

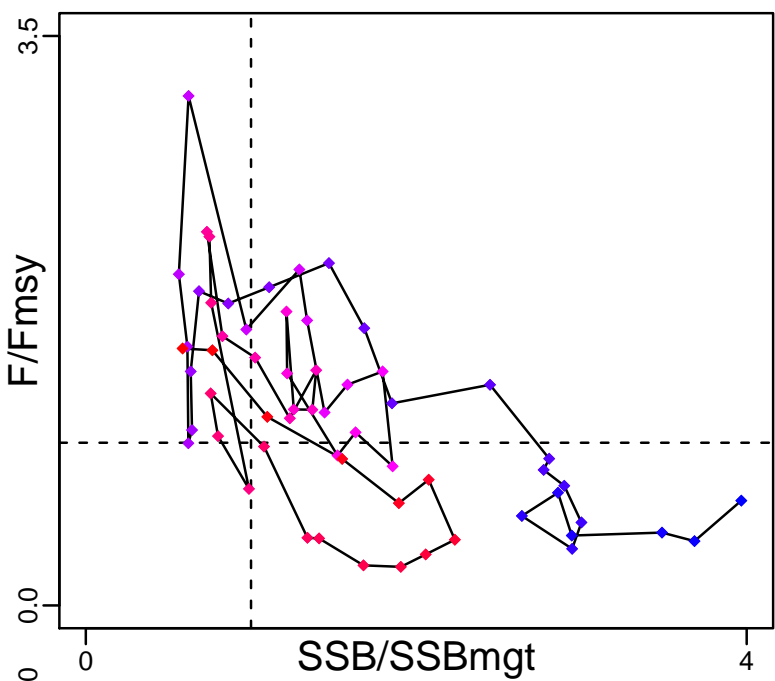
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRSIRS-1957-2018-ICESIMP2018
Area	ICES VIIa-g-h-j
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2012, 2013, 2014, 2015,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

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

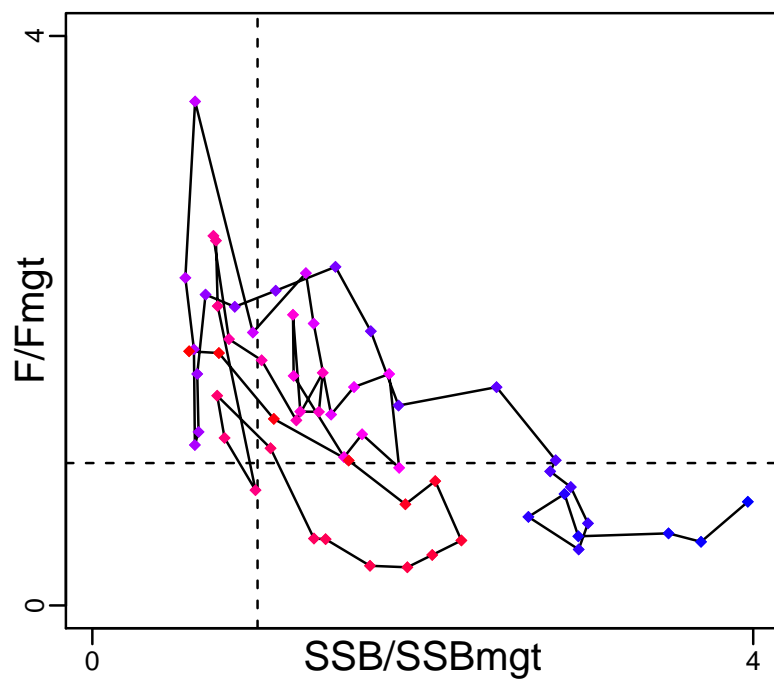
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	61,300	Both	-
SSB	SSB-MT	2018	34,200	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.38×10^8	-	1
F	F-1/yr	2018	0.411	-	2 to 5
ER	ER-calc-ratio	2018	0.176	-	-
TC	TC-MT	2018	10,800		
TL	TL-MT	2018	10,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.579		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.56		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.785		
ER/ERmgt	-	-	-		

Herring ICES VIIa-g-h-j [HERRSIRS]

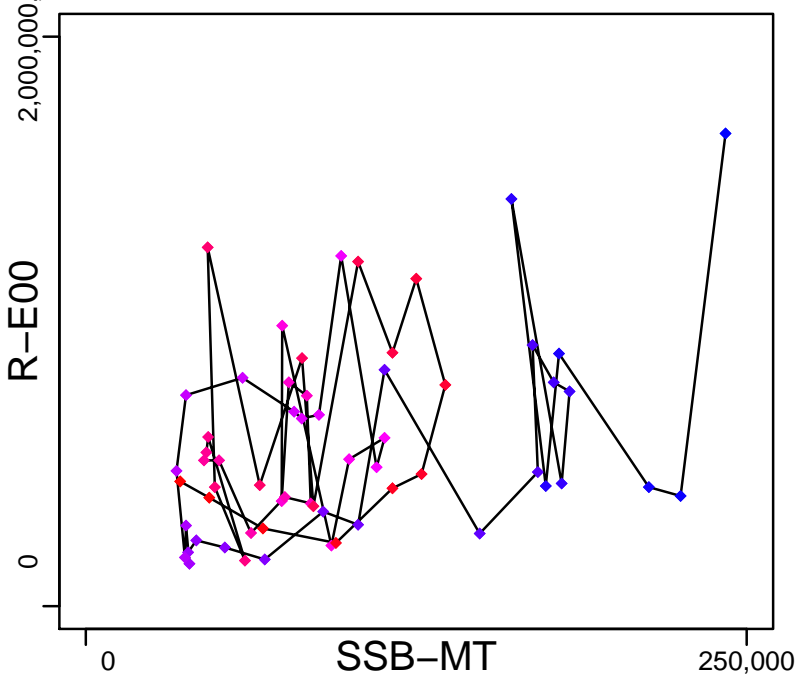
Kobe MSYpref (1957–2018–ICESIMP2018)



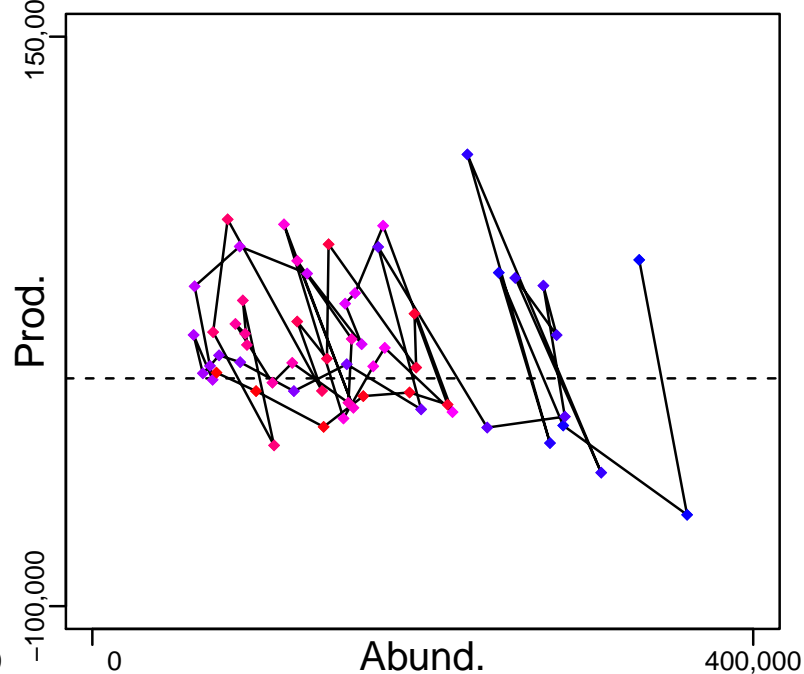
Kobe MGTpref (1957–2018–ICESIMP2018)



Spawner Recruit (1957–2018–ICESIMP2018)



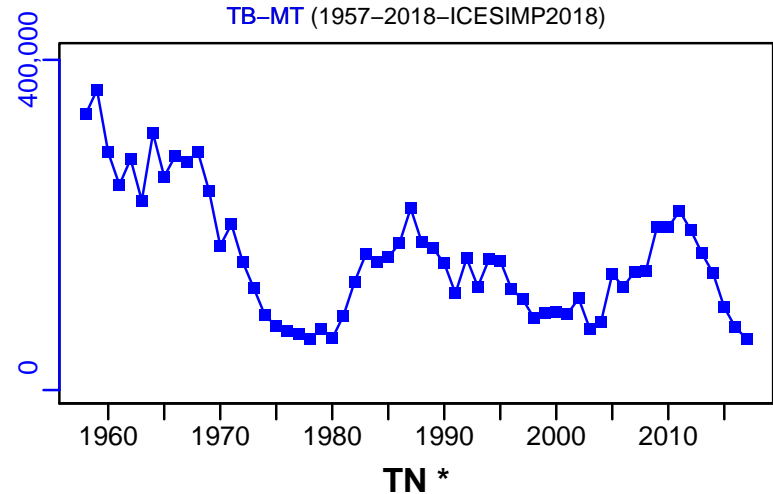
Production (1957–2018–ICESIMP2018)



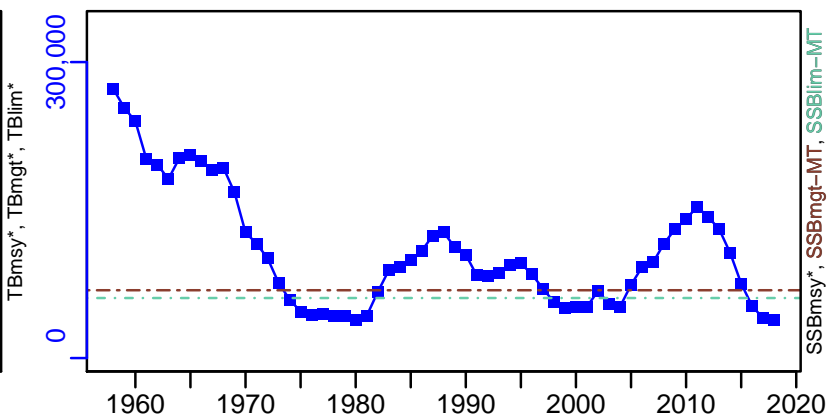
◆ Start Year ◆ End Year * No Data

Herring ICES VIIa-g-h-j [HERRSIRS]

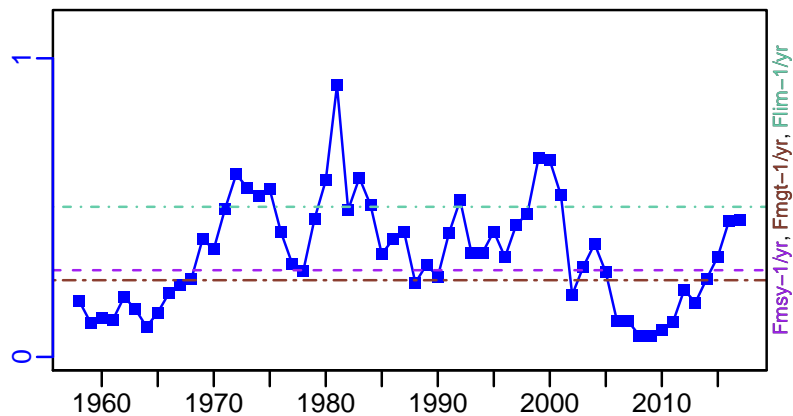
TB-MT (1957-2018-ICESIMP2018)



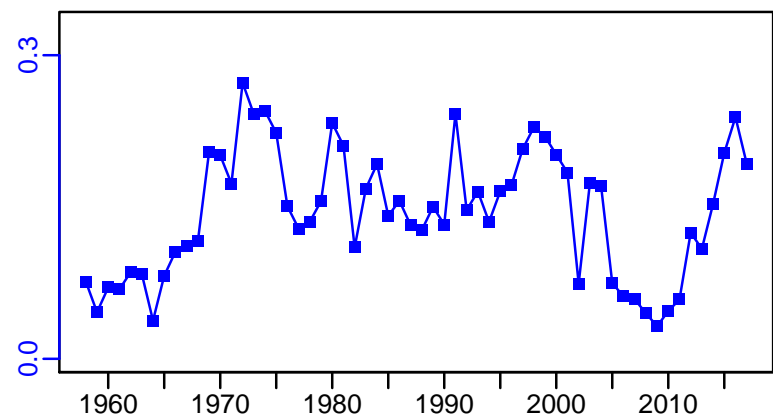
SSB-MT (1957-2018-ICESIMP2018)



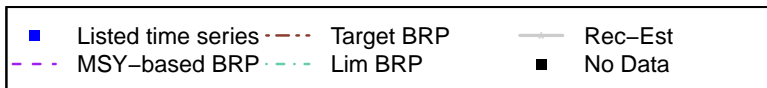
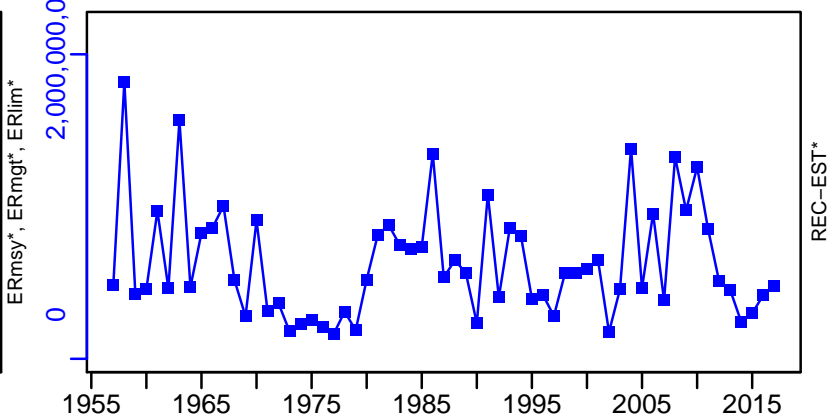
F-1/yr (1957-2018-ICESIMP2018)



ER-calc-ratio (1957-2018-ICESIMP2018)



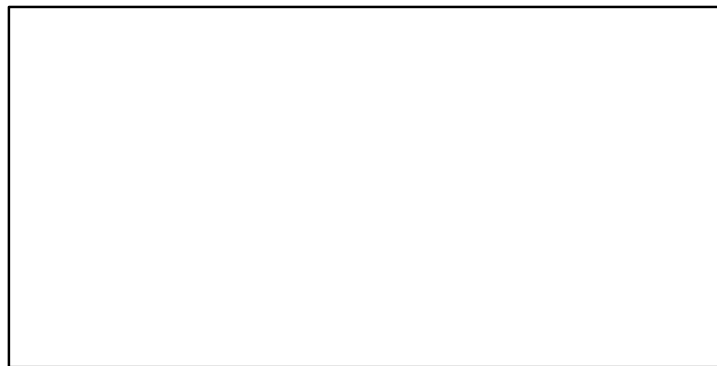
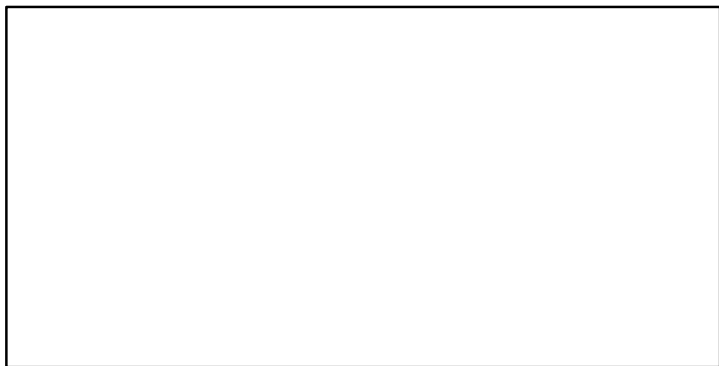
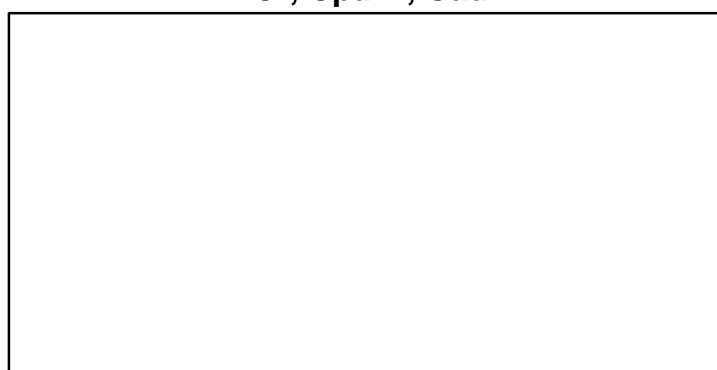
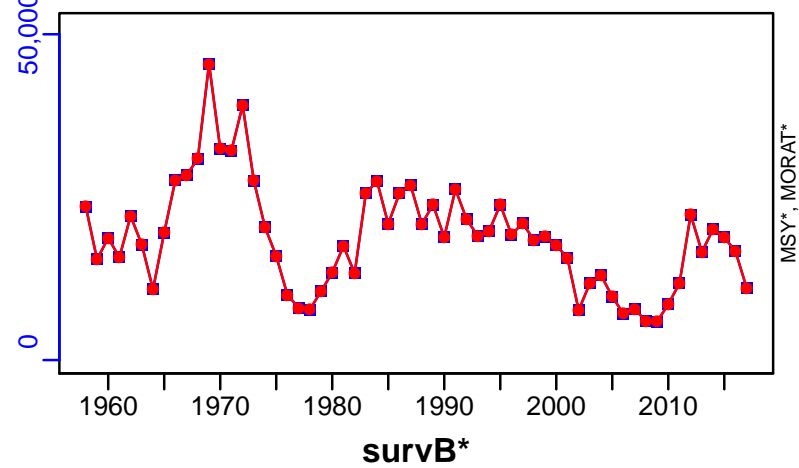
R-E00 (1957-2018-ICESIMP2018)



Herring ICES VIIa-g-h-j [HERRSIRS]

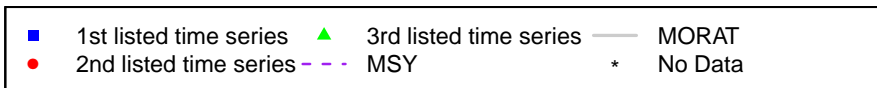
TC-MT, TL-MT, RecC* (1957-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Herring ICES VIa [HERRVIa]

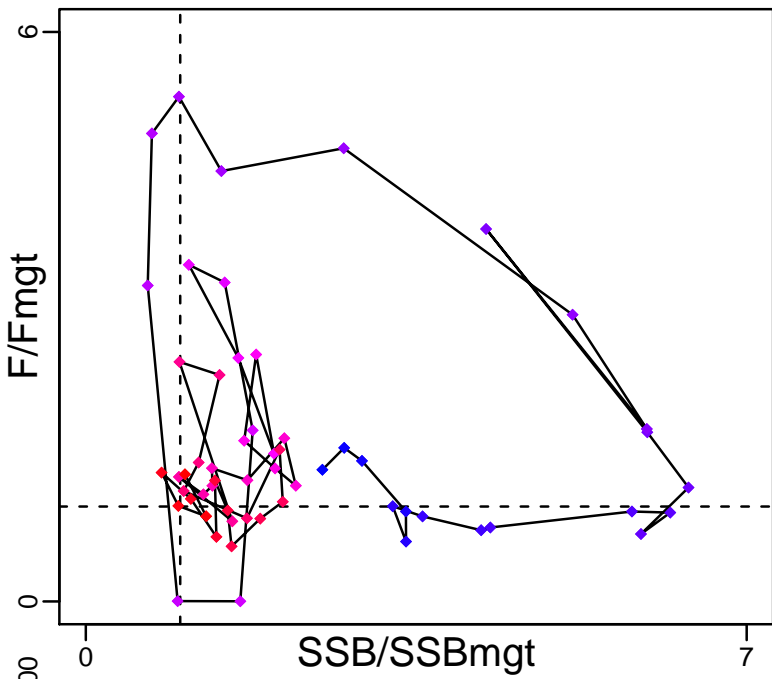
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVIa-1956-2014-ICESIMP2016
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014

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

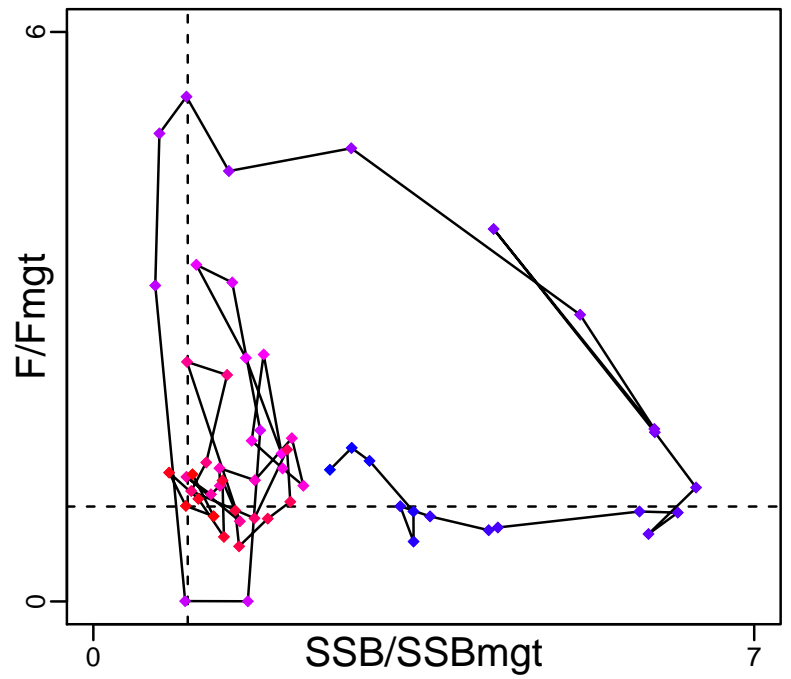
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	114,000	Both	-
SSB	SSB-MT	2014	78,800	Both	-
TN	-	-	-	-	-
R	R-E00	2014	6×10^8	-	1
F	F-1/yr	2014	0.268	-	3 to 6 ringer
ER	ER-calc-ratio	2014	0.202	-	-
TC	-	-	-		
TL	TL-MT	2014	23,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	1.064		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.05		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.339		
ER/ERmgt	-	-	-		

Herring ICES Vla [HERRVla]

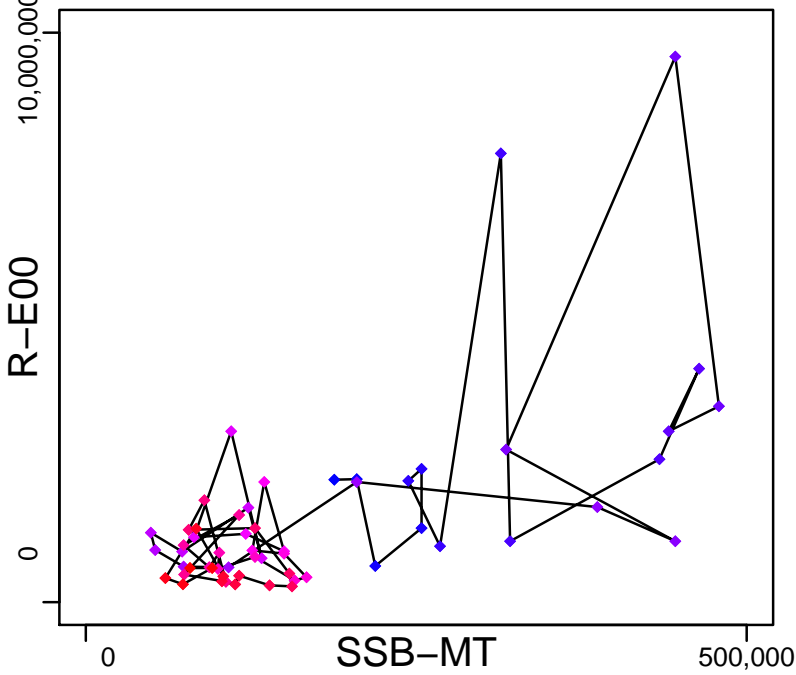
Kobe MSYpref (1956–2014–ICESIMP2016)



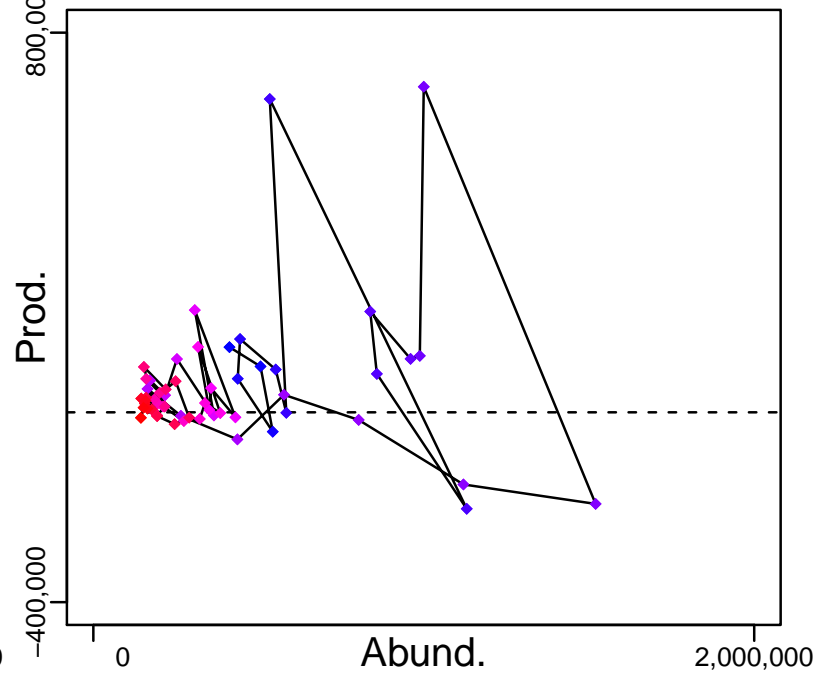
Kobe MGTpref (1956–2014–ICESIMP2016)



Spawner Recruit (1956–2014–ICESIMP2016)



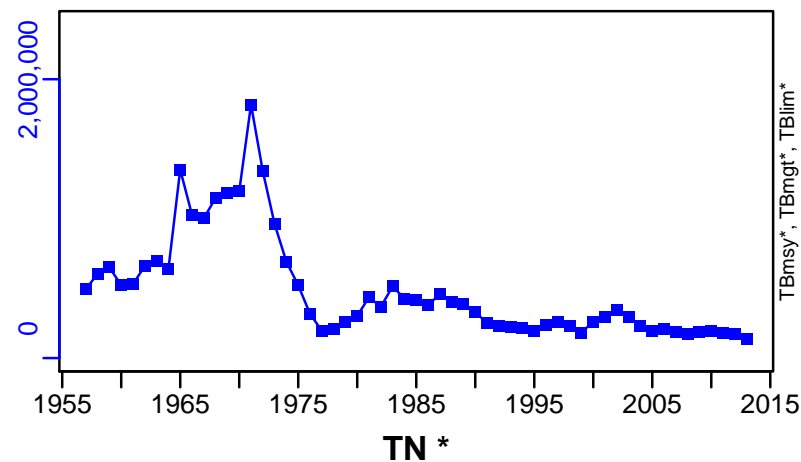
Production (1956–2014–ICESIMP2016)



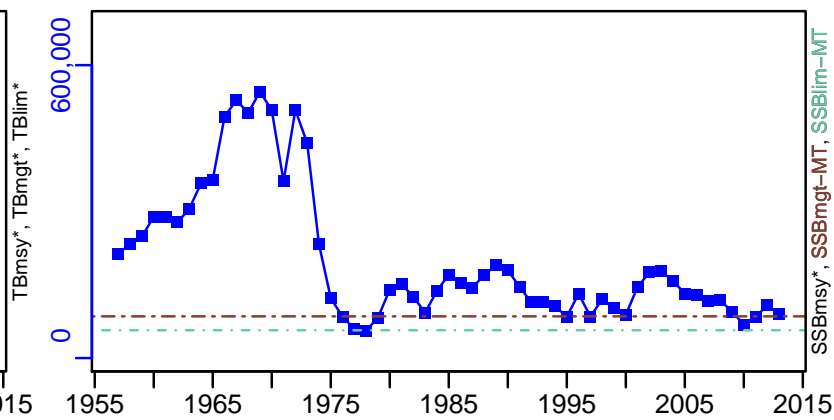
◆ Start Year ◆ End Year * No Data

Herring ICES Vla [HERRVla]

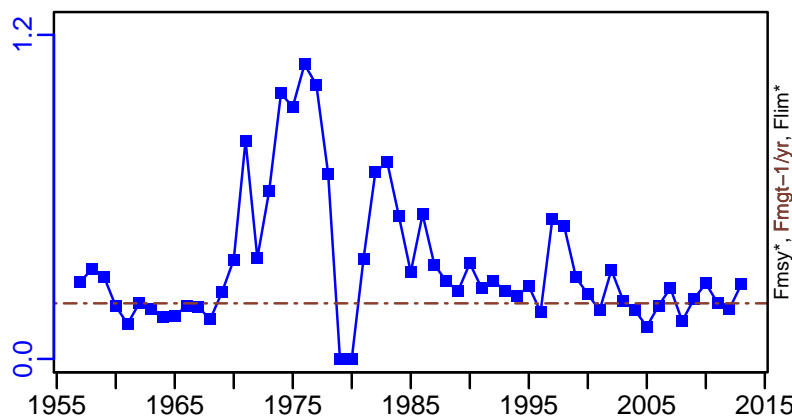
TB-MT (1956–2014–ICESIMP2016)



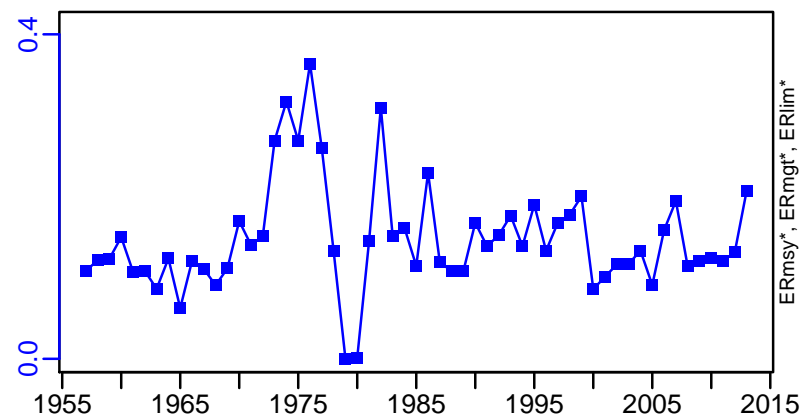
SSB-MT (1956–2014–ICESIMP2016)



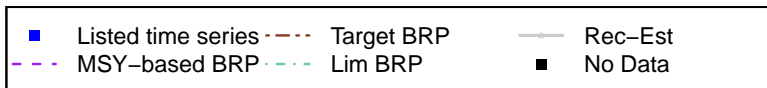
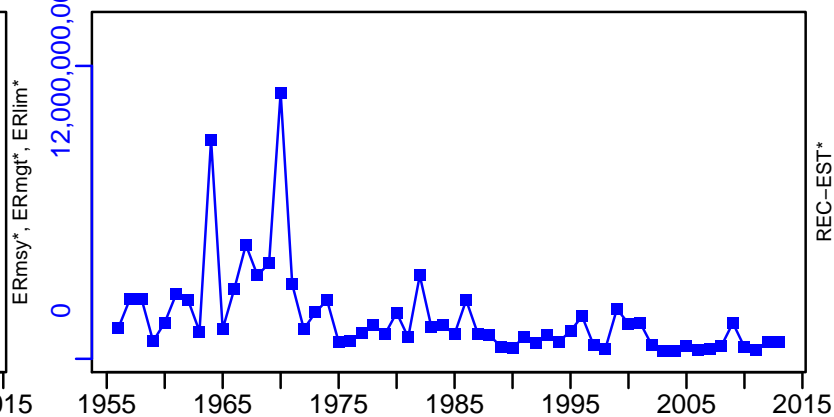
F-1/yr (1956–2014–ICESIMP2016)



ER-calc-ratio (1956–2014–ICESIMP2016)

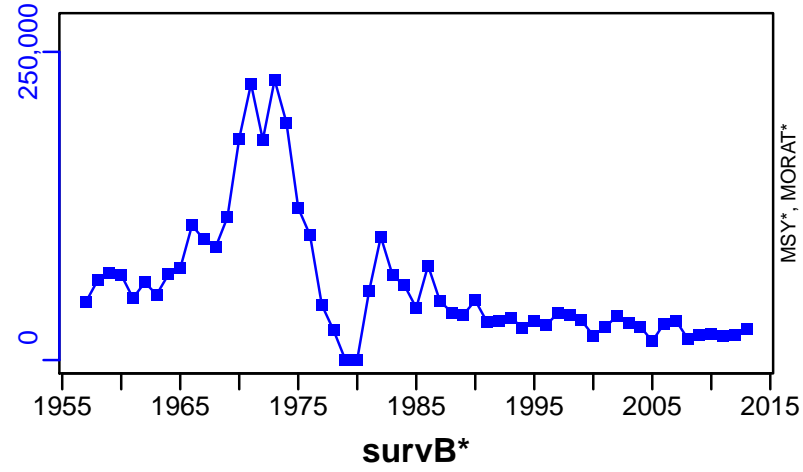


R-E00 (1956–2014–ICESIMP2016)

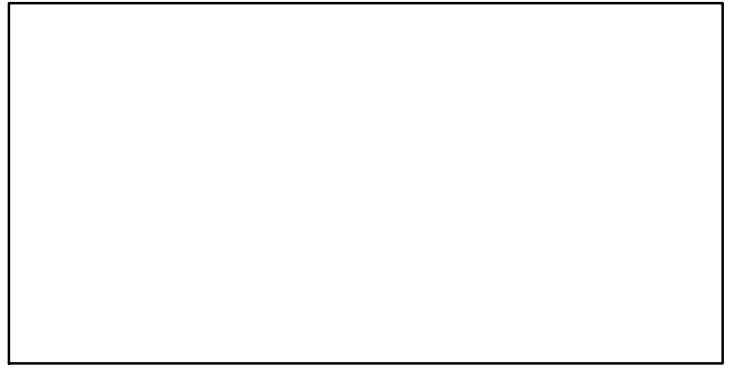


Herring ICES VIa [HERRVIa]

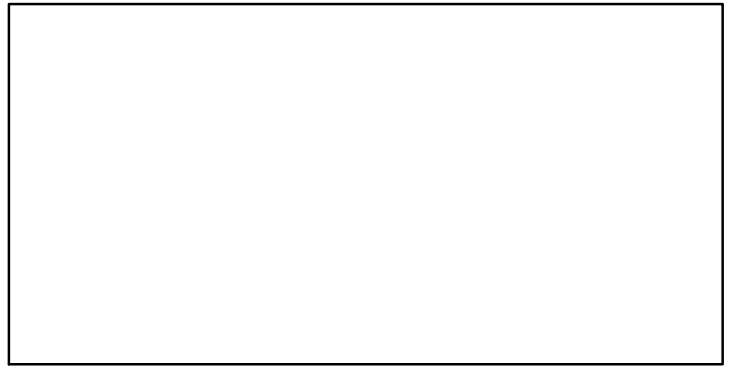
TL-MT, TC*, RecC* (1956–2014–ICESIMP2016)



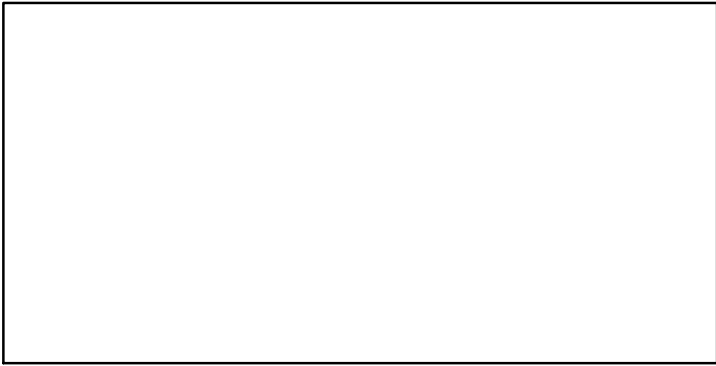
TAC*, Cpair*, Cadv*



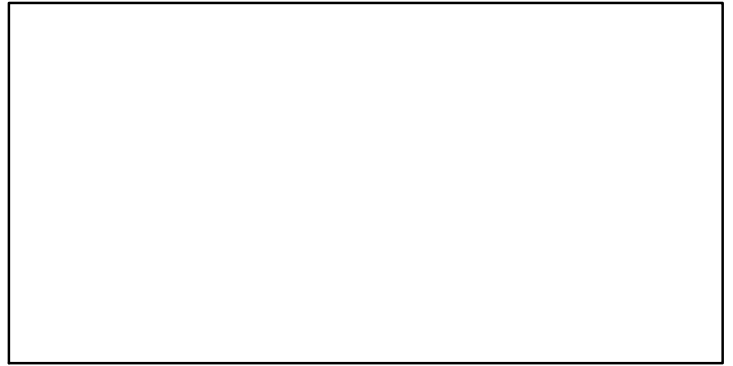
CPUE*



EFFORT*



CdivMSY*



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

Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]

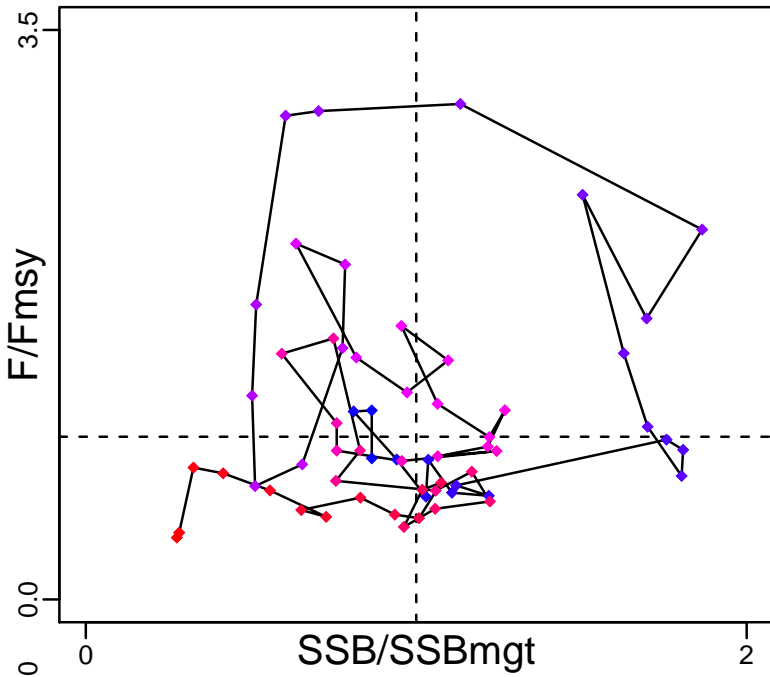
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVIaVIIbc-1956-2018-ICESIMP2018
Area	VIa, VIIb and VIIc
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.16
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	410,000
Fmgt	Fmgt-1/yr	2018	0.16
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2010	81,000
SSBlim	SSBlim-MT	2018	250,000
Flim	Flim-1/yr	2018	0.3
ERlim	-	-	-

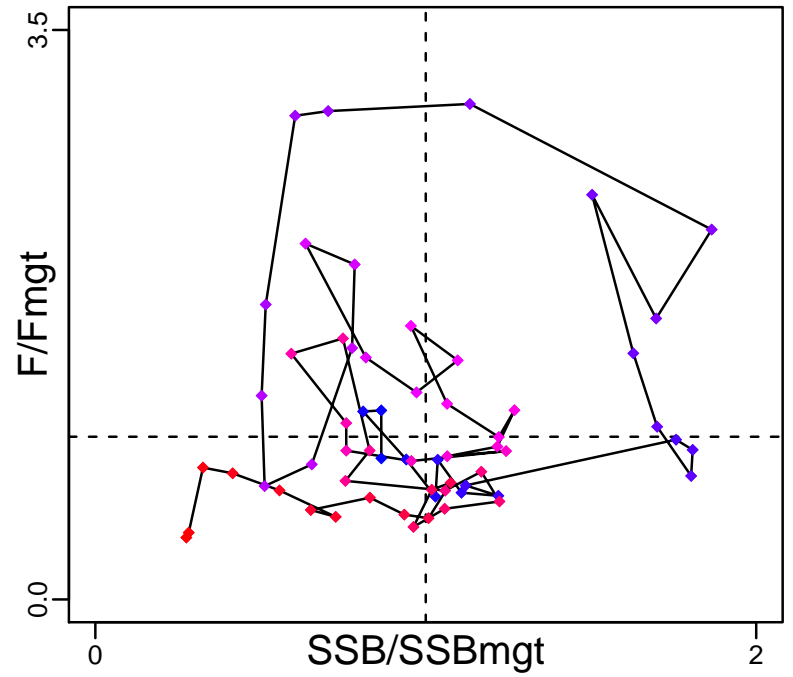
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	162,000	Both	-
SSB	SSB-MT	2018	91,500	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.4×10^8	-	1
F	F-1/yr	2018	0.061	-	3 to 6
ER	ER-calc-ratio	2018	0.04	-	-
TC	TC-MT	2018	6420		
TL	TL-MT	2018	6420		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.38		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.223		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.38		
ER/ERmgt	-	-	-		

Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]

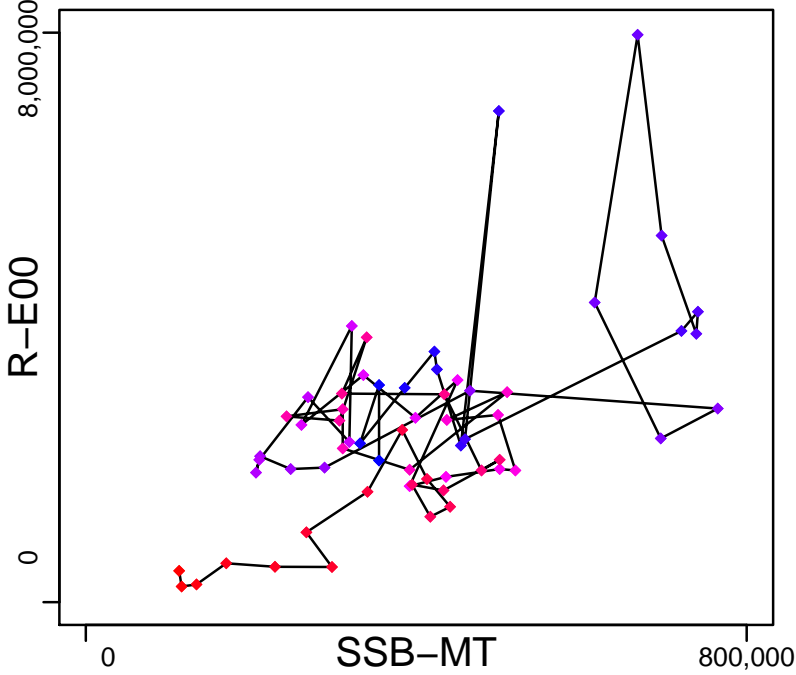
Kobe MSYpref (1956–2018–ICESIMP2018)



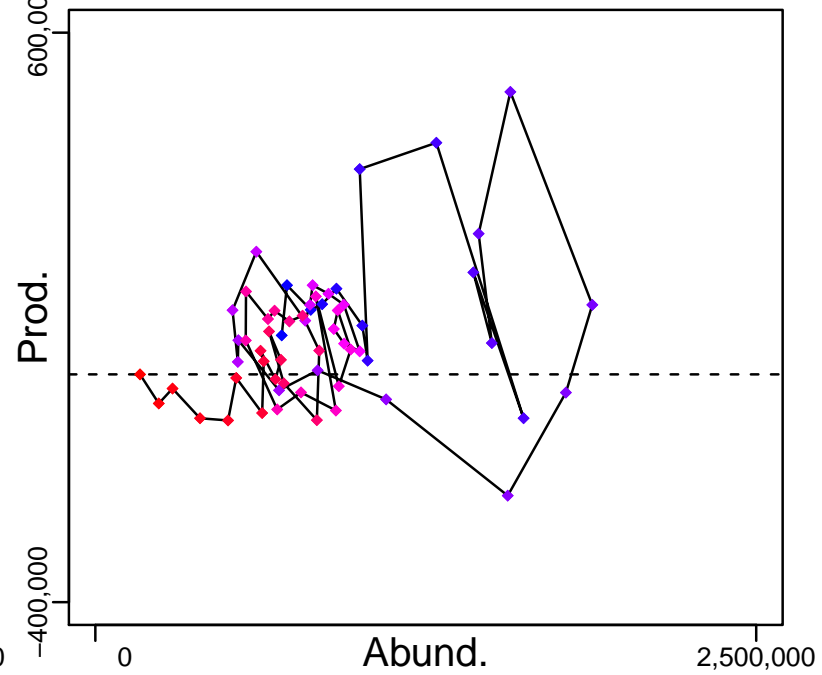
Kobe MGTpref (1956–2018–ICESIMP2018)



Spawner Recruit (1956–2018–ICESIMP2018)



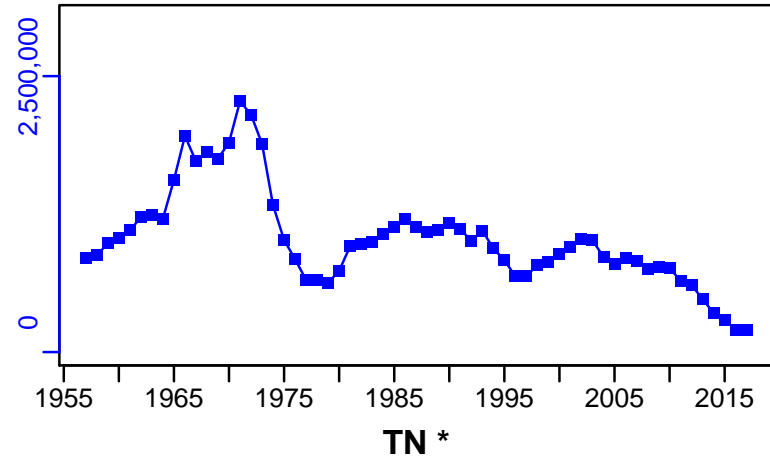
Production (1956–2018–ICESIMP2018)



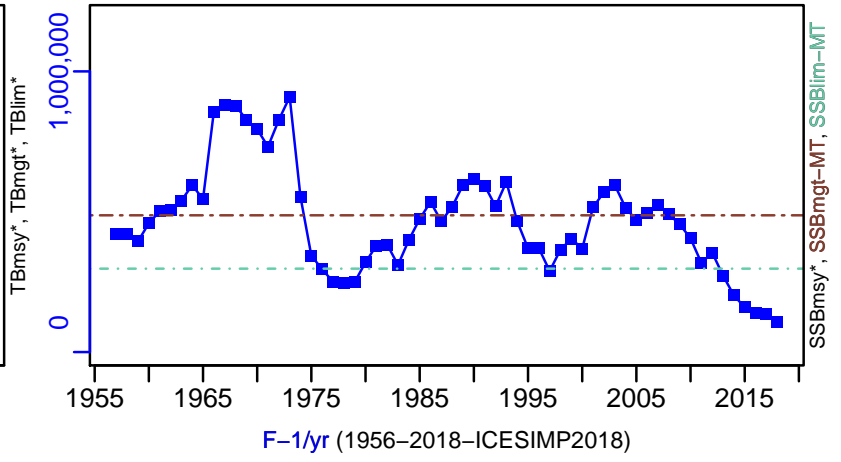
◆ Start Year ◆ End Year * No Data

Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

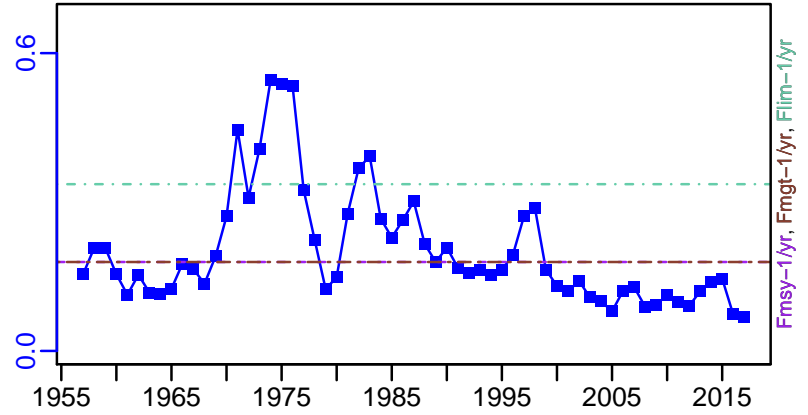
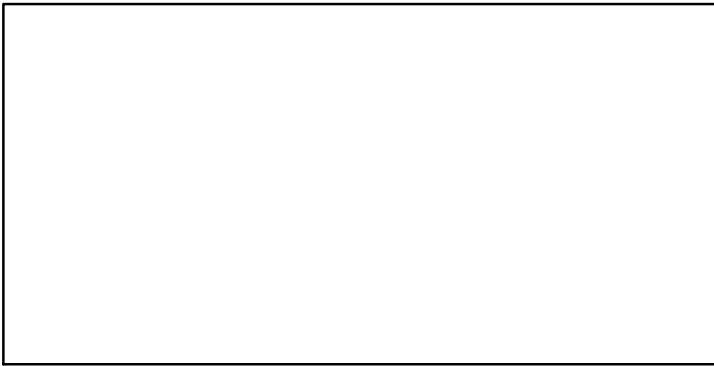
TB–MT (1956–2018–ICESIMP2018)



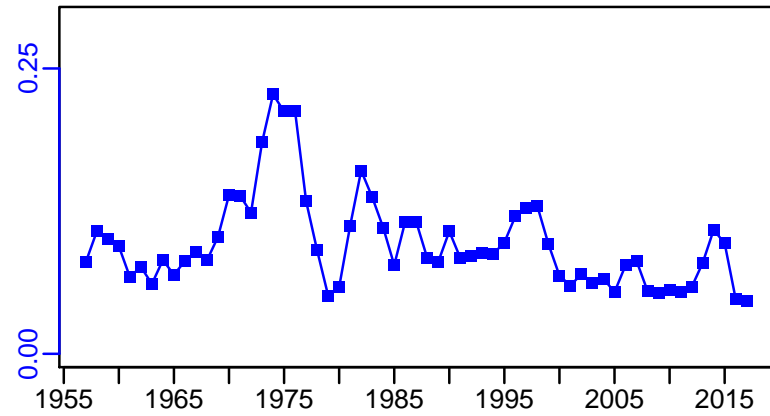
SSB–MT (1956–2018–ICESIMP2018)



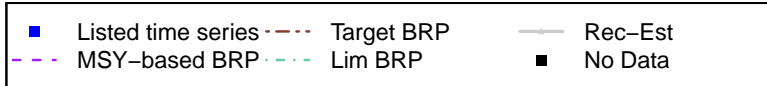
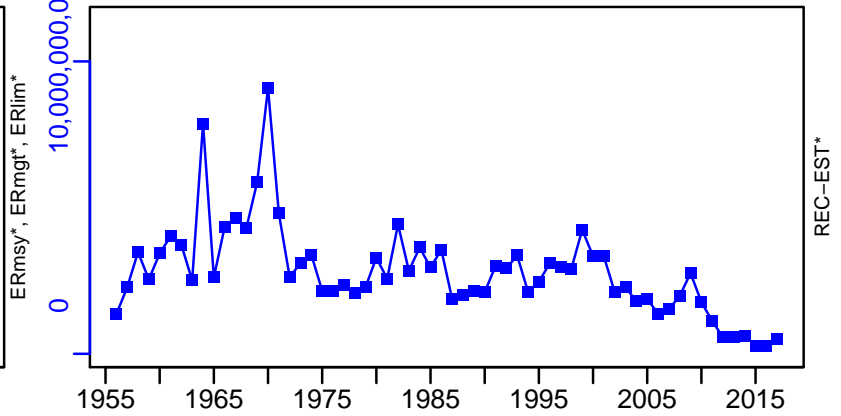
F–1/yr (1956–2018–ICESIMP2018)



ER–calc–ratio (1956–2018–ICESIMP2018)

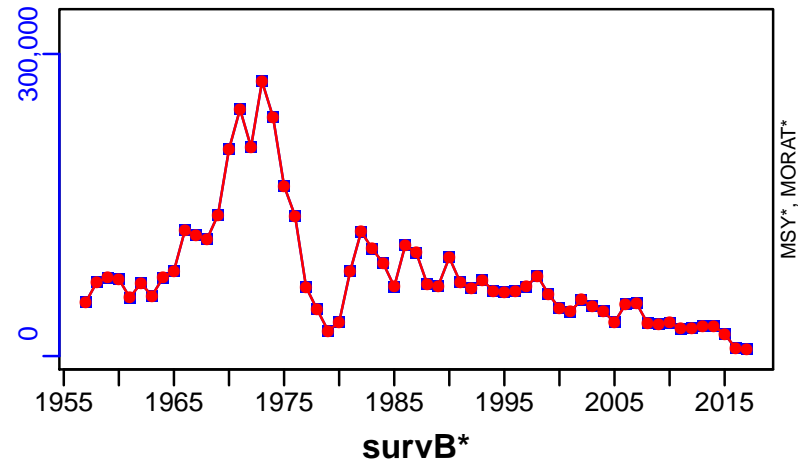


R–E00 (1956–2018–ICESIMP2018)

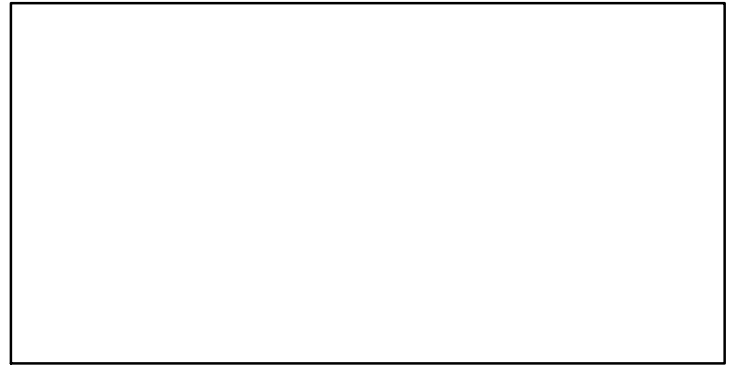


Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

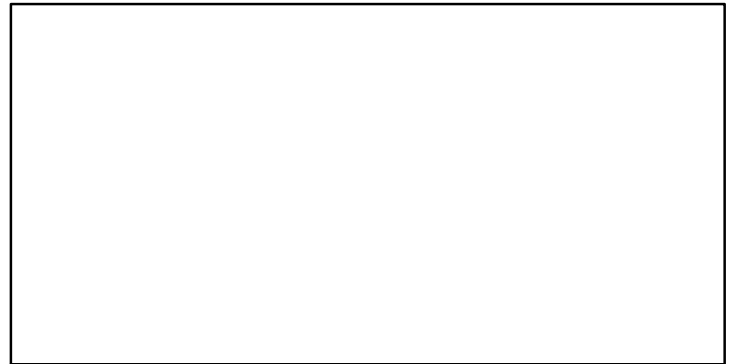
TC–MT, TL–MT, RecC* (1956–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



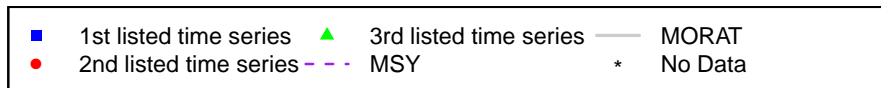
CPUE*



EFFORT*



CdivMSY*



Horse mackerel IIa-IVa-Vb-VIa-VII-VIII [HMACKIIa-IVa-Vb-VIa-VII-VIII]

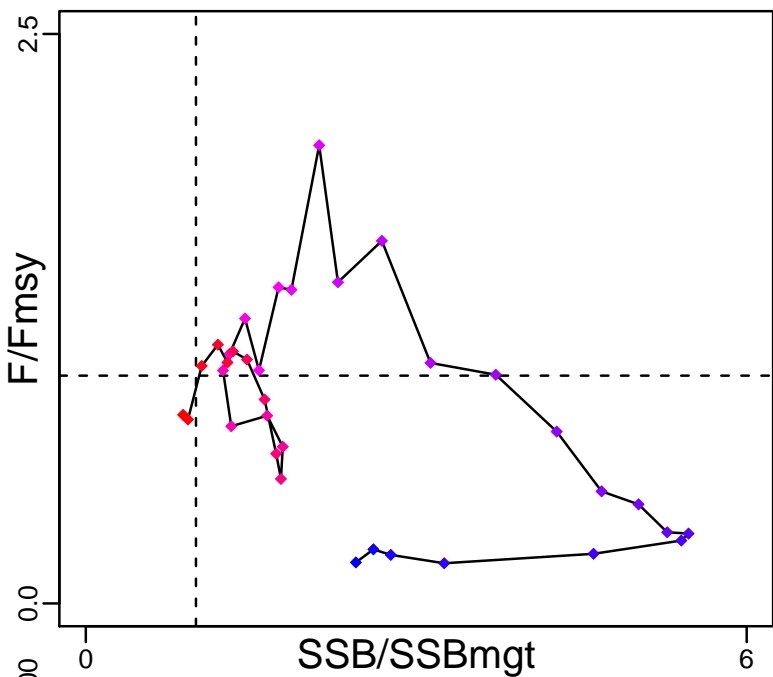
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIa-IVa-Vb-VIa-VII-VIII-1982-2017-ICESIMP2018
Area	IIa-IVa-Vb-VIa-VII-VIII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.108
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	911,588
Fmgt	Fmgt-1/yr	2017	0.108
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	661,917
Flim	Flim-1/yr	2017	0.151
ERlim	-	-	-

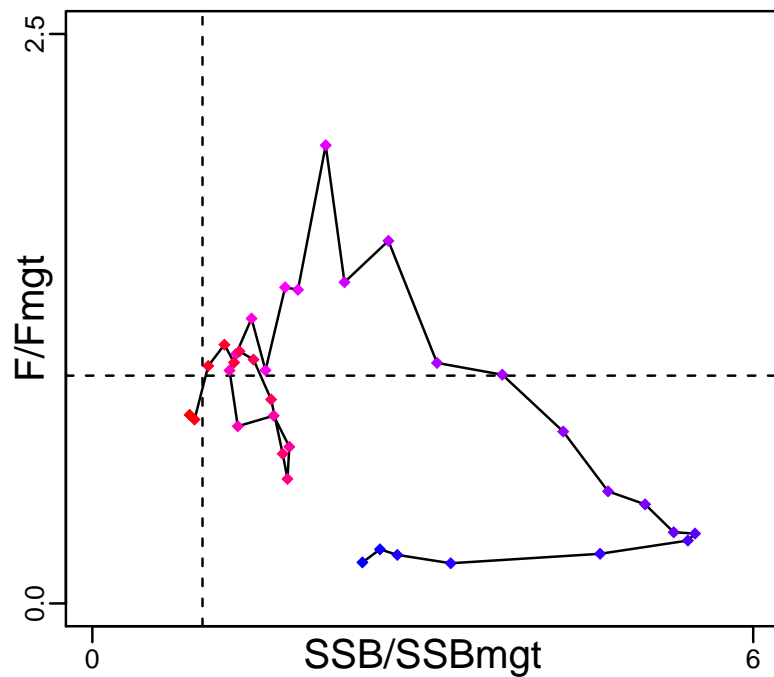
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	1,070,000	Both	-
SSB	SSB-MT	2017	782,000	Both	-
TN	-	-	-	-	-
R	R-E00	2017	2.52×10^9	-	0
F	F-1/yr	2017	0.089	-	1 to 10
ER	ER-calc-ratio	2017	0.098	-	-
TC	TC-MT	2017	98,800		
TL	TL-MT	2017	98,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.828		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.858		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.828		
ER/ERmgt	-	-	-		

Horse mackerel IIa-IVa-Vb-VIa-VII-VIII [HMACKIIa-IVa-Vb-VIa-VII-VIII]

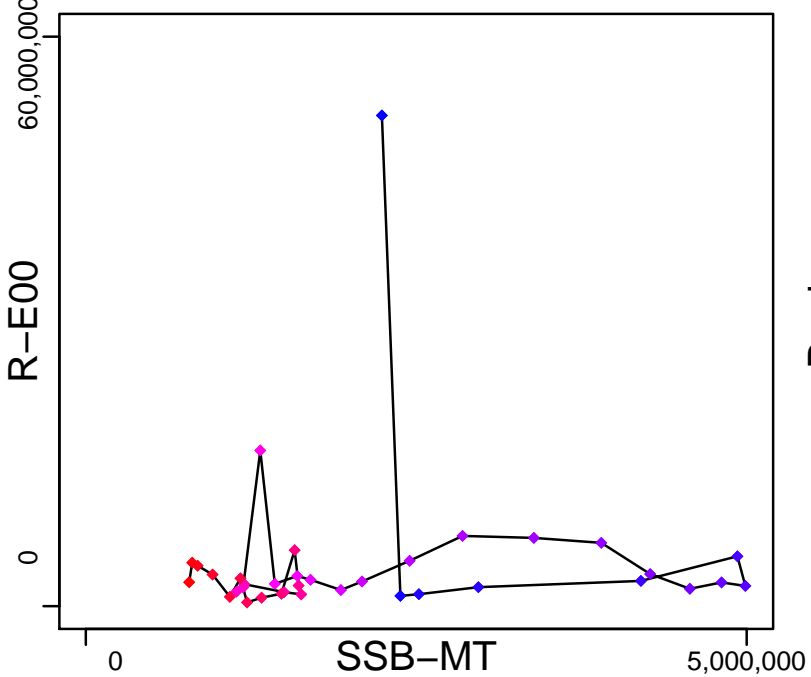
Kobe MSYpref (1982-2017-ICESIMP2018)



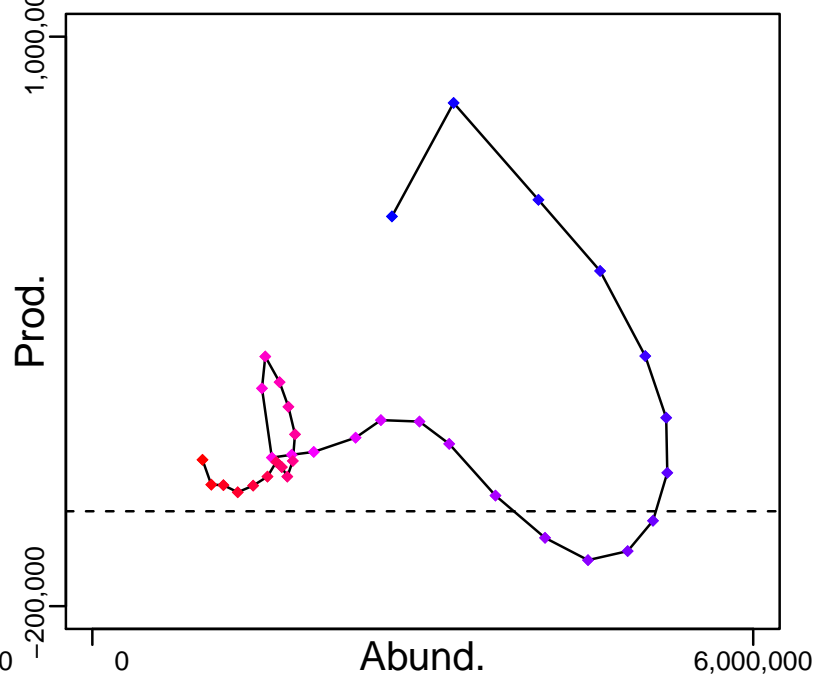
Kobe MGTpref (1982-2017-ICESIMP2018)



Spawner Recruit (1982-2017-ICESIMP2018)

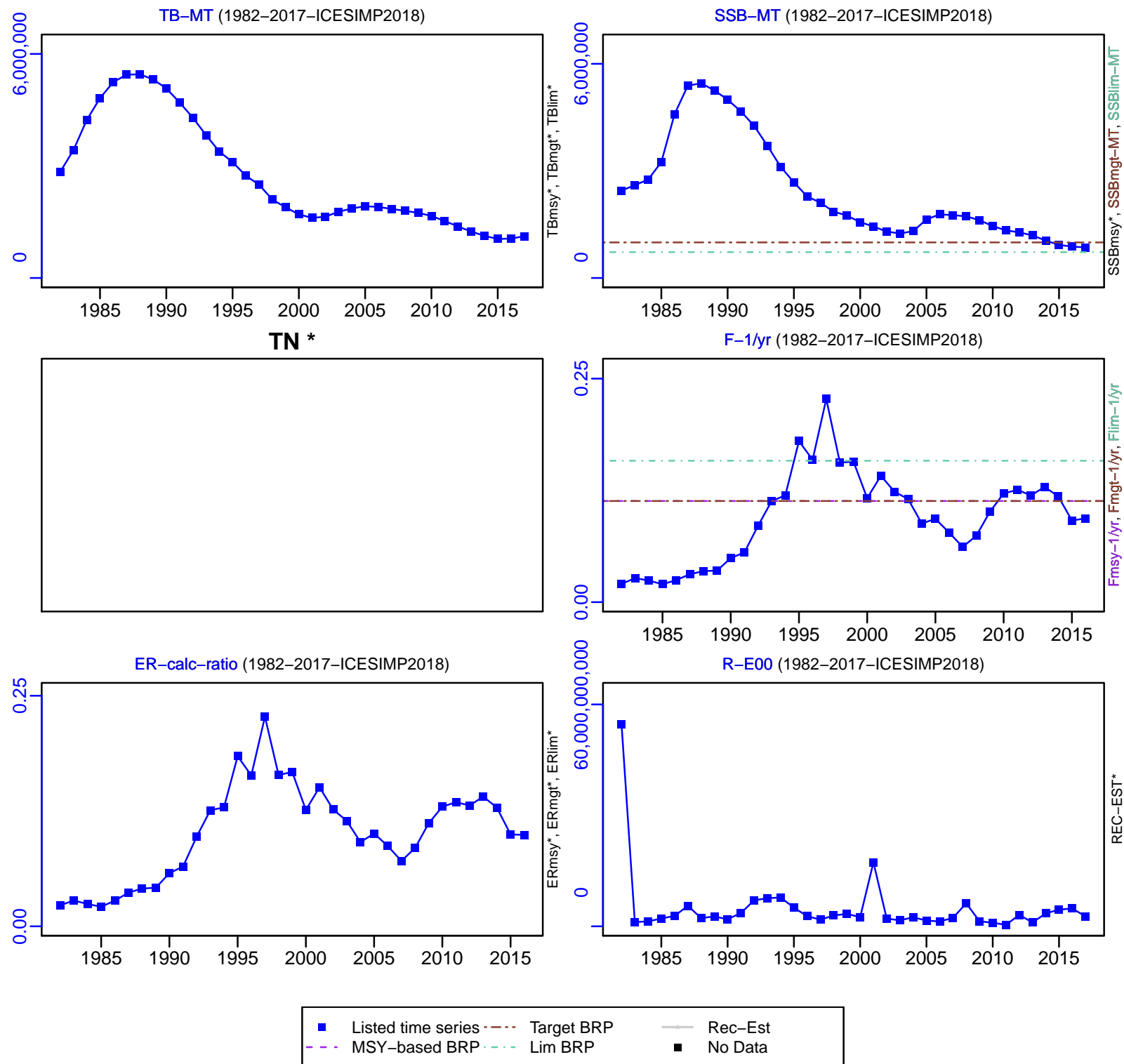


Production (1982-2017-ICESIMP2018)



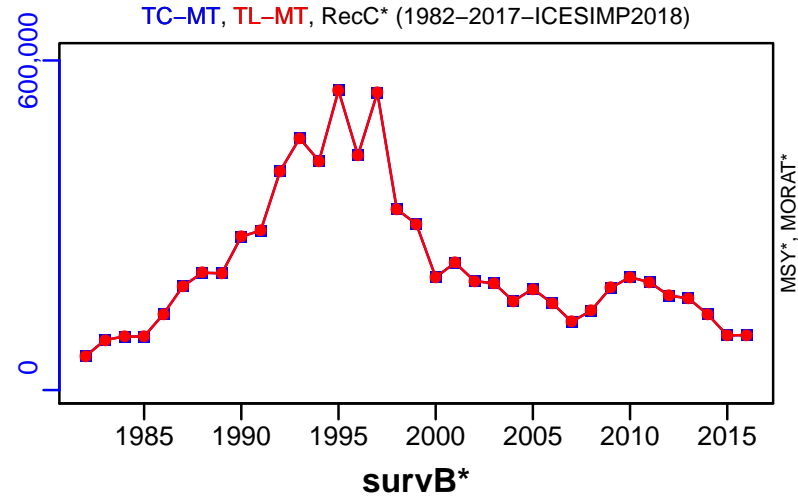
◆ Start Year ◆ End Year * No Data

Horse mackerel IIa-IVa-Vb-VIa-VII-VIII [HMACKIIa-IVa-Vb-VIa-VII-VIII]

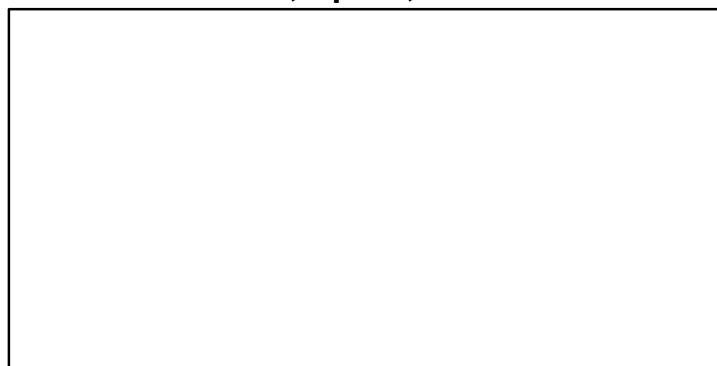


Horse mackerel IIa–IVa–Vb–VIa–VII–VIII [HMACKIIa–IVa–Vb–VIa–VII–VIII]

TC–MT, TL–MT, RecC* (1982–2017–ICESIMP2018)



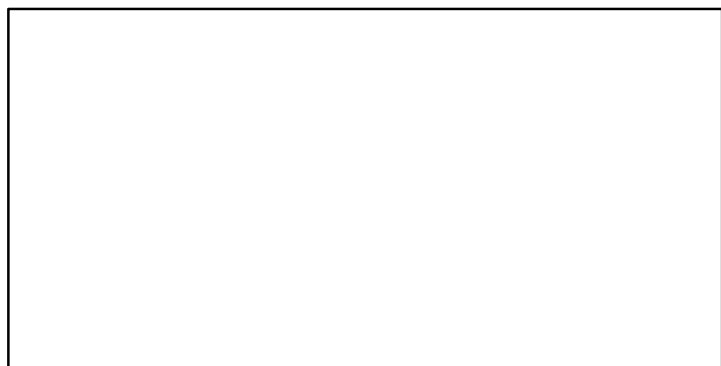
TAC*, Cpair*, Cadv*



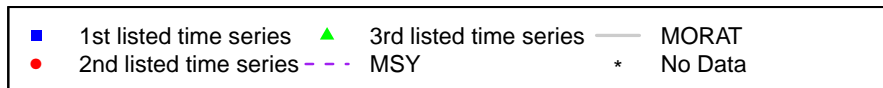
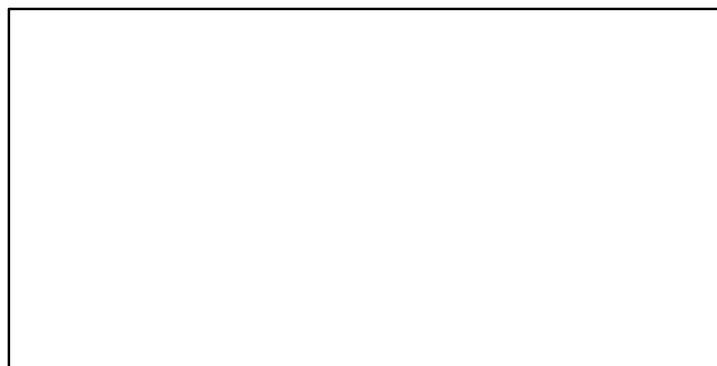
CPUE*



EFFORT*



CdivMSY*



Horse mackerel IIIa-IVbc-VIId [HMACKIIIa-IVbc-VIId]

Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIIa-IVbc-VIId-1982-2016-ICESIMP2018
Area	IIIa-IVbc-VIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2015, 2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	16,900		
TL	TL-MT	2016	13,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

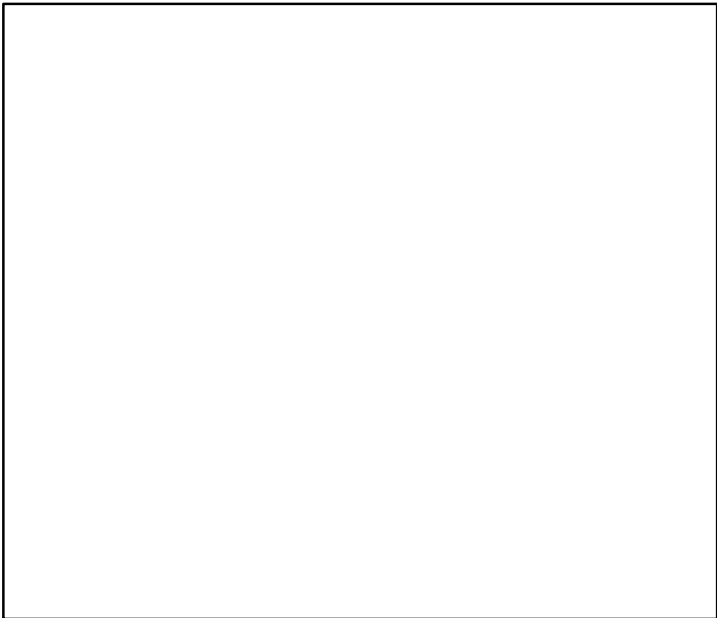
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Horse mackerel IIIa–IVbc–VIIId [HMACKIIIa–IVbc–VIIId]

TB*



SSB*



TN *



F*



ER*

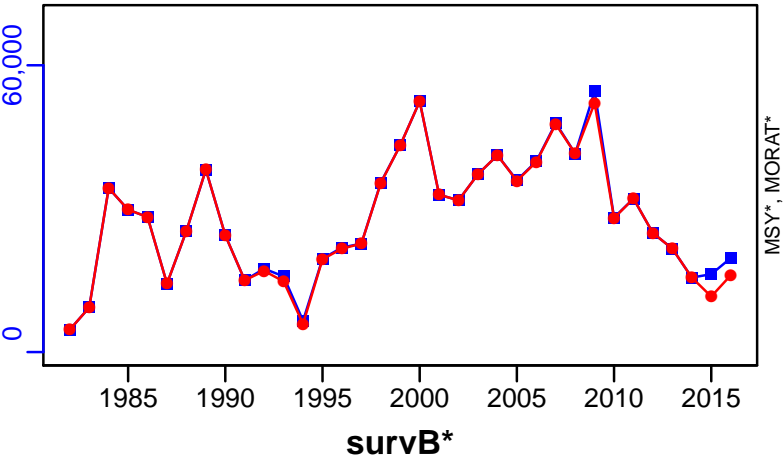


Recruits*



Horse mackerel IIIa–IVbc–VIIId [HMACKIIIa–IVbc–VIIId]

TC–MT, TL–MT, RecC* (1982–2016–ICESIMP2018)



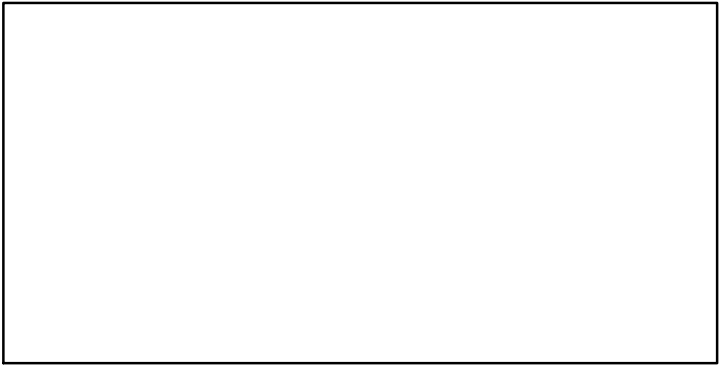
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Horse mackerel Portuguese Waters -East [HMACKIXa]

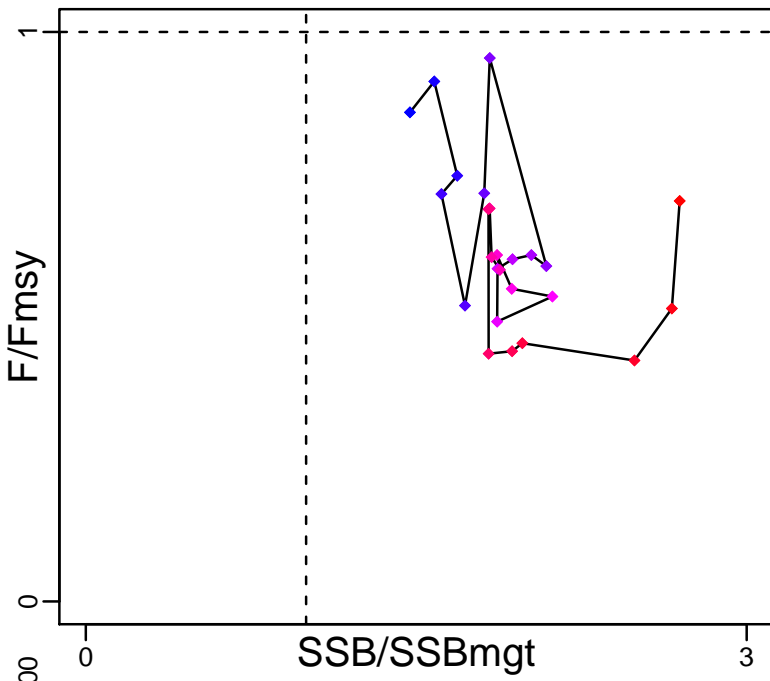
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGHANSA-HMACKIXa-1992-2018-ICESIMP2018
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018

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

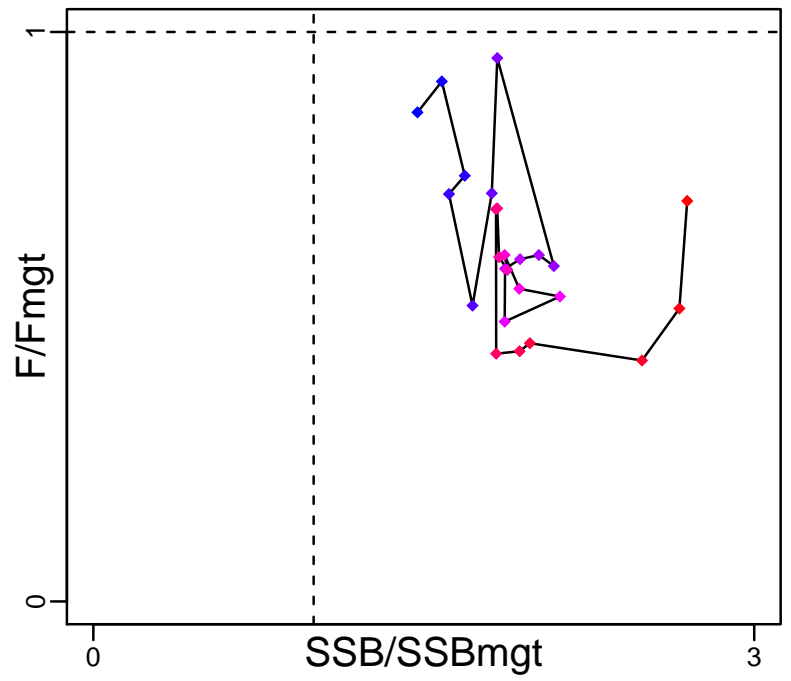
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	816,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.46×10^9	-	0
F	F-1/yr	2017	0.077	-	2 to 10
ER	-	-	-	-	-
TC	TC-MT	2018	36,900		
TL	TL-MT	2018	36,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.703		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	4.507		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.703		
ER/ERmgt	-	-	-		

Horse mackerel Portuguese Waters –East [HMACKIXa]

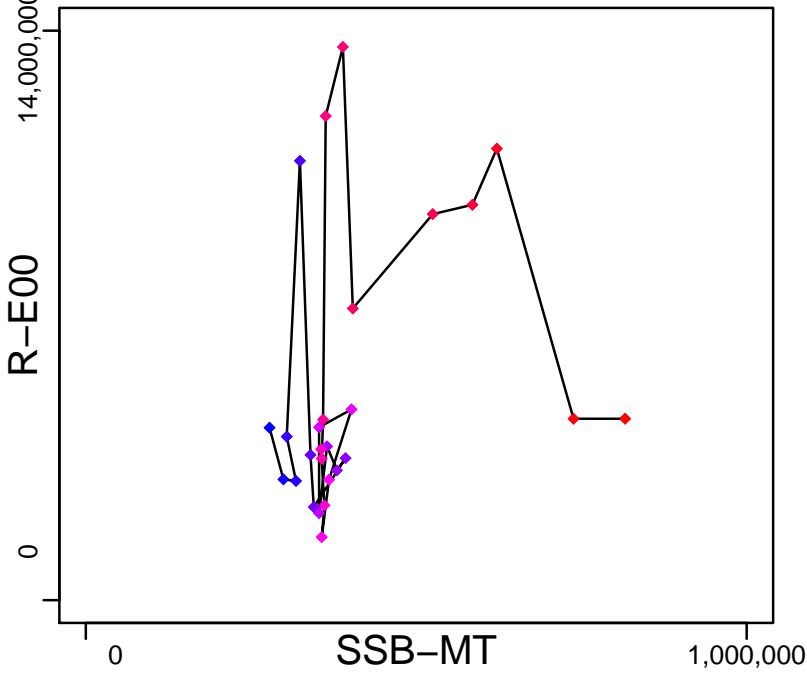
Kobe MSYpref (1992–2017–ICESIMP2018)



Kobe MGTpref (1992–2017–ICESIMP2018)



Spawner Recruit (1992–2018–ICESIMP2018)



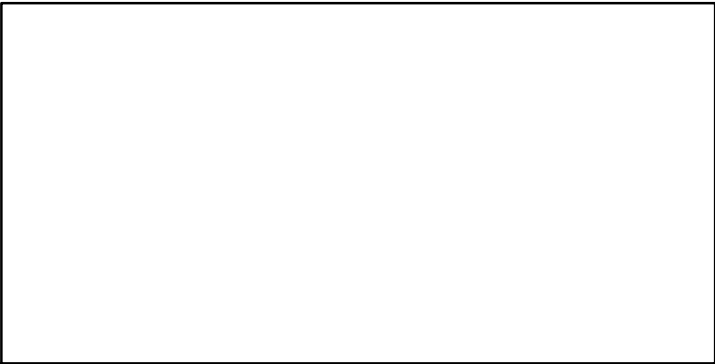
Production*



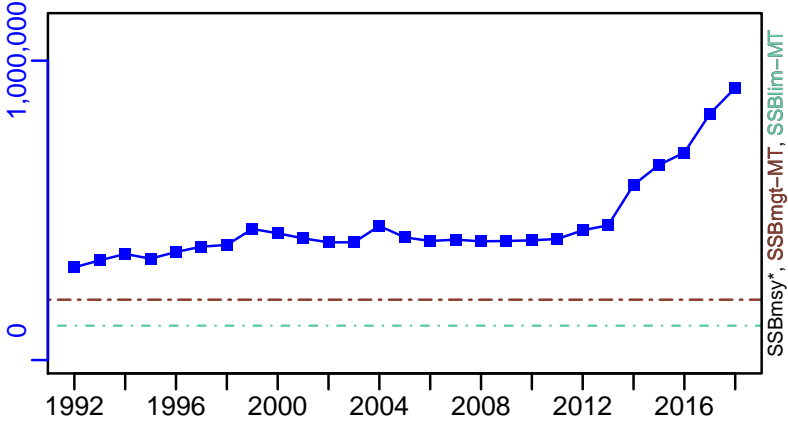
◆ Start Year ◆ End Year * No Data

Horse mackerel Portuguese Waters –East [HMACKIXa]

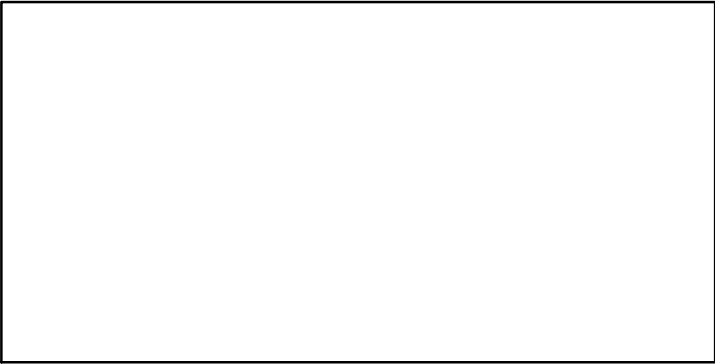
TB*



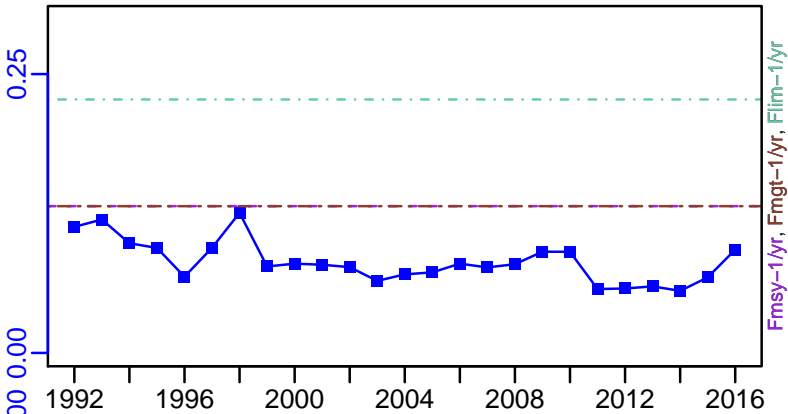
SSB-MT (1992–2018–ICESIMP2018)



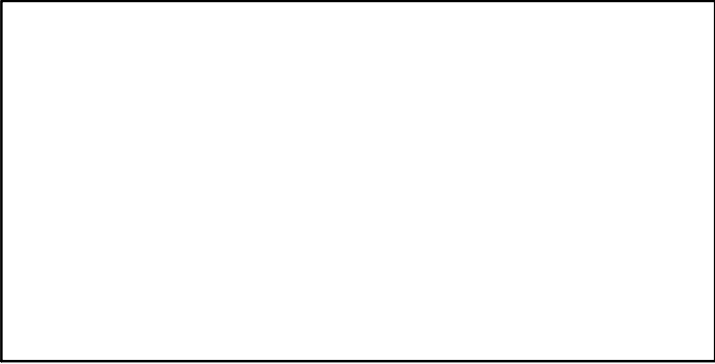
TN *



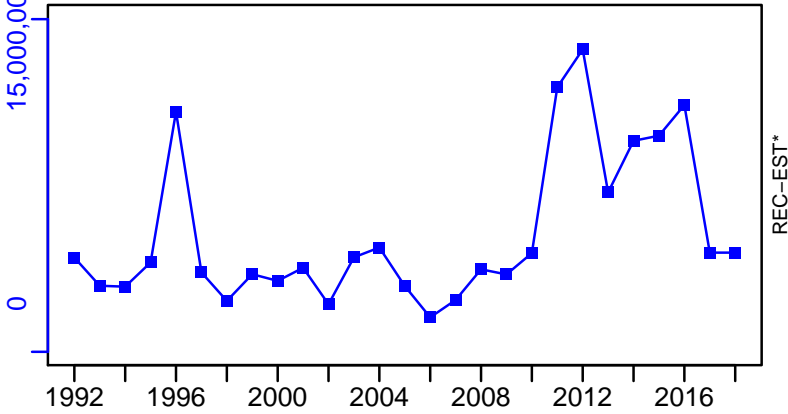
F-1/yr (1992–2017–ICESIMP2018)



ER*

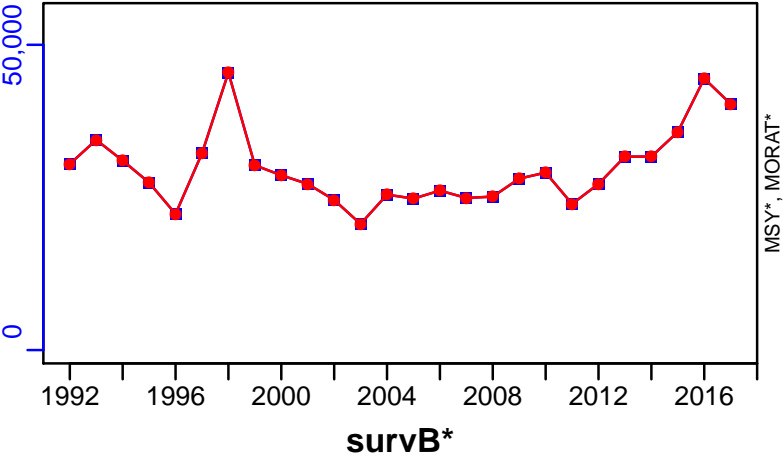


R-E00 (1992–2018–ICESIMP2018)

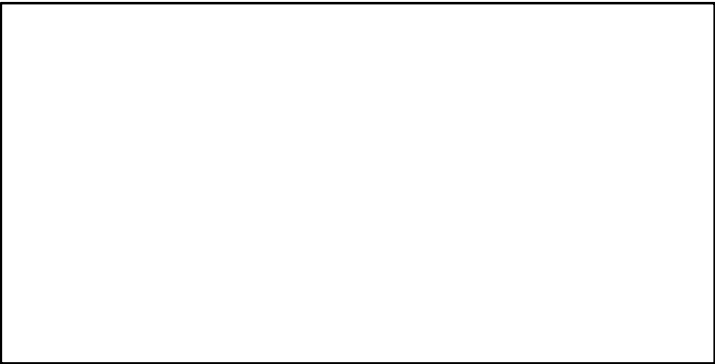


Horse mackerel Portuguese Waters –East [HMACKIXa]

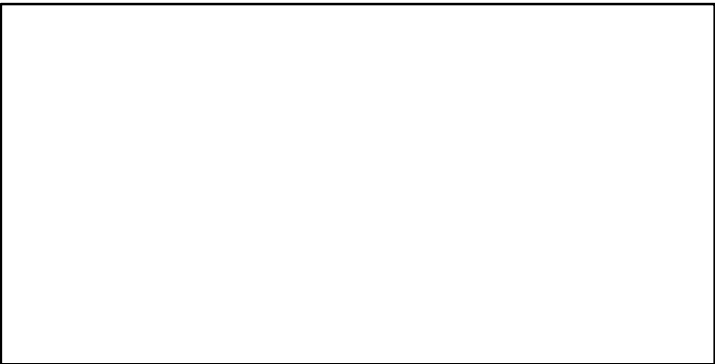
TC–MT, TL–MT, RecC* (1992–2018–ICESIMP2018)



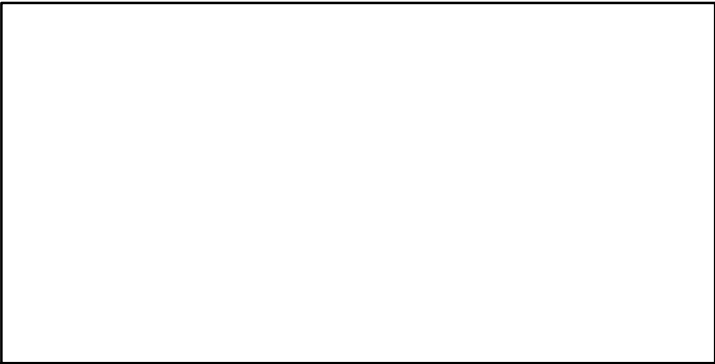
TAC*, Cpair*, Cadv*



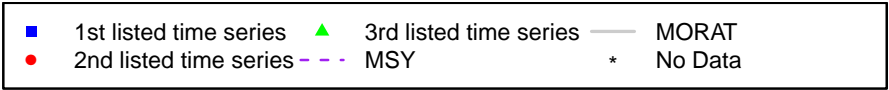
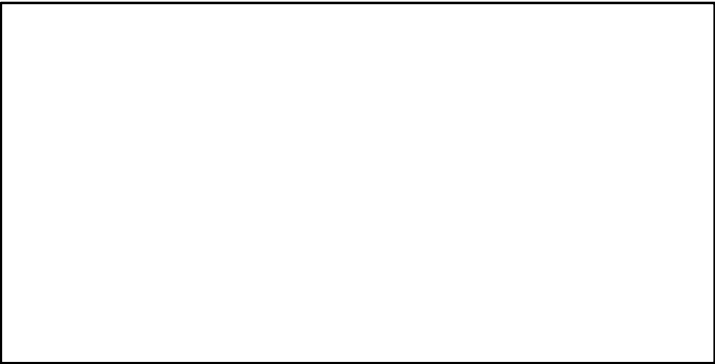
CPUE*



EFFORT*



CdivMSY*

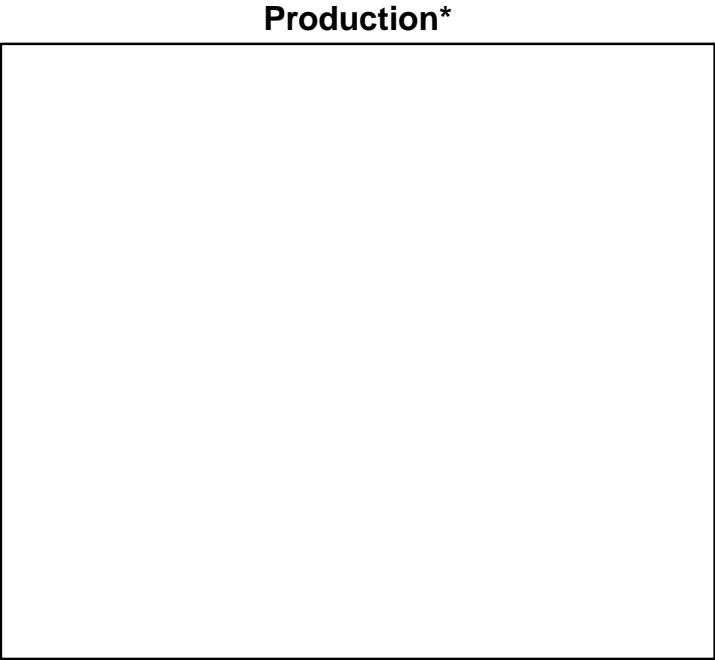
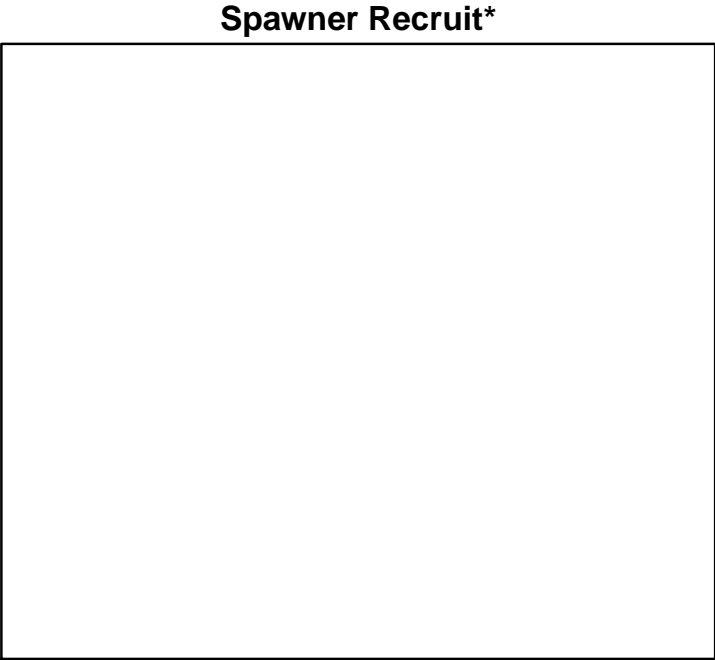
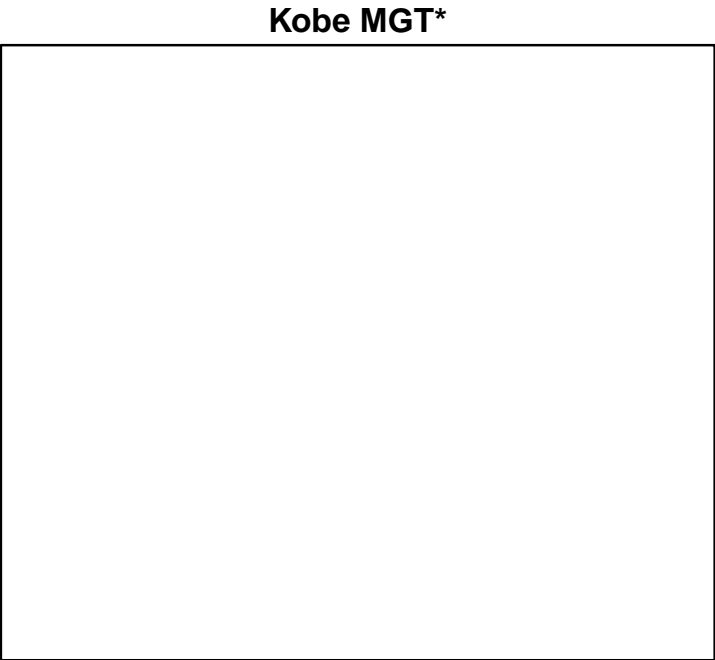
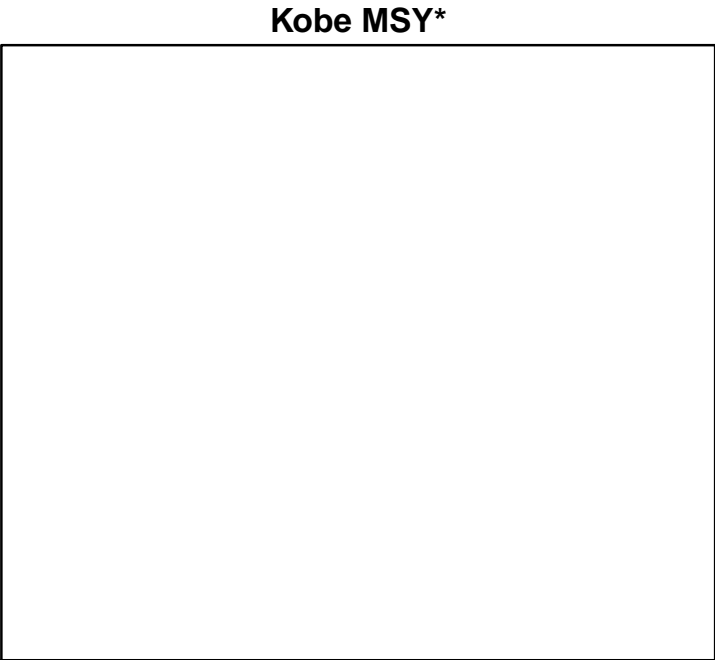


Kitefin shark Northeast Atlantic [KFSHARNEATL]

Metadata	
Scientific Name	Dalatias licha
Current Assess ID	WGEF-KFSHARNEATL-1988-2014-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Kitefin shark Northeast Atlantic [KFSHARNEATL]

TB*



SSB*



TN *



F*



ER*



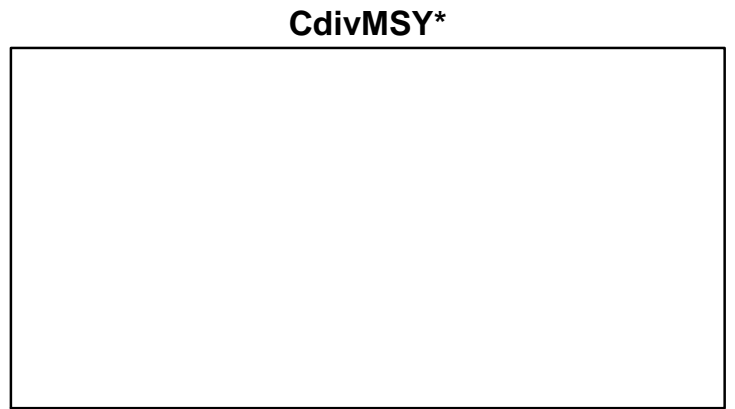
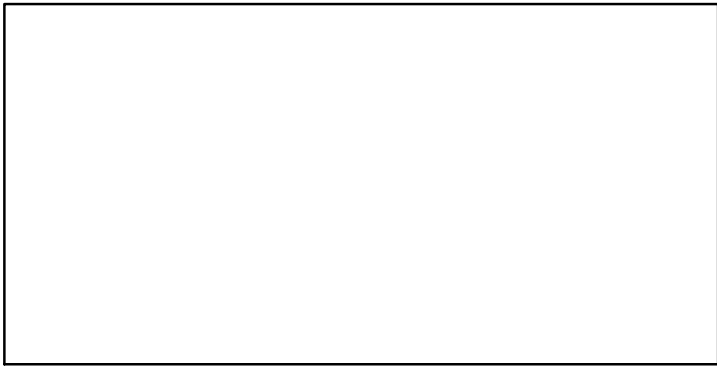
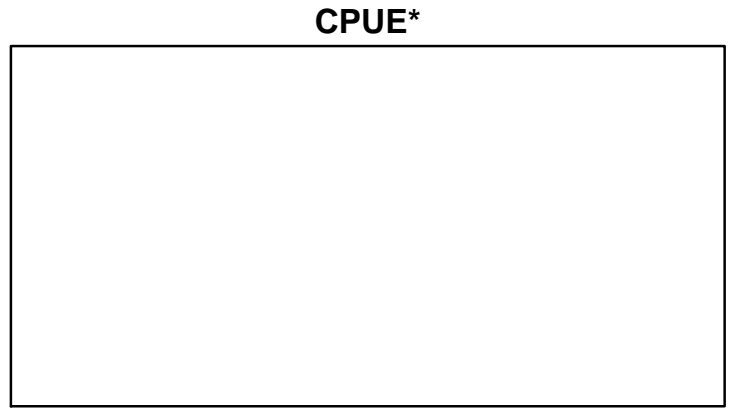
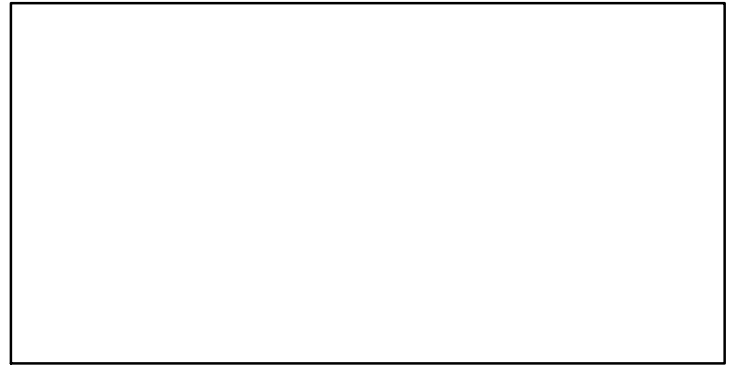
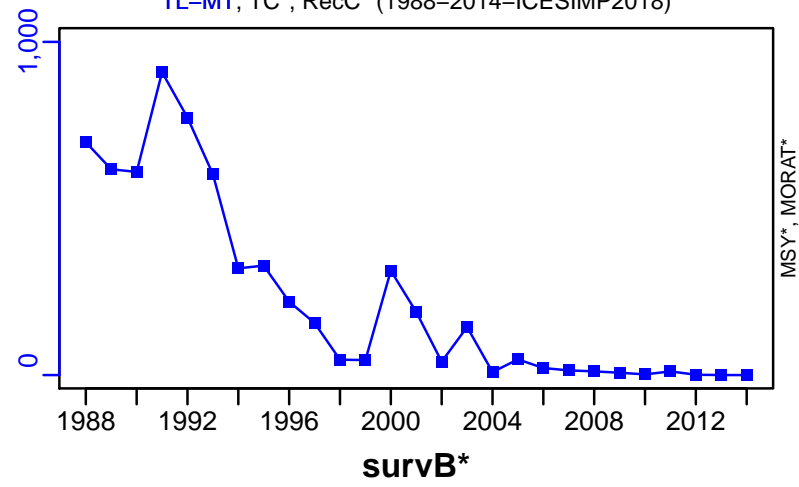
Recruits*



Kitefin shark Northeast Atlantic [KFSHARNEATL]

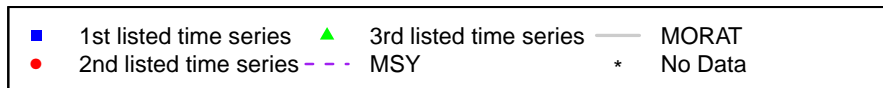
TL-MT, TC*, RecC* (1988–2014–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

Metadata	
Scientific Name	Centrophorus squamosus
Current Assess ID	WGEF-LGSHARNEATL-1988-2014-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	33		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

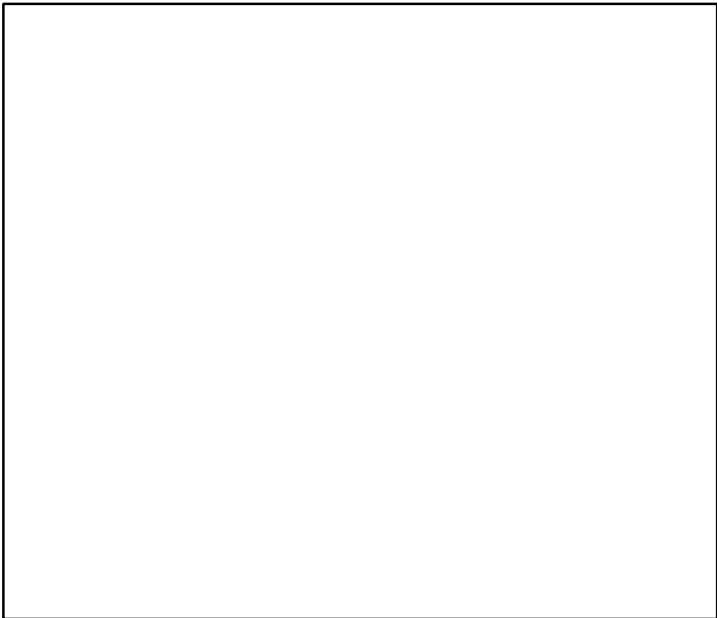
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

TB*



SSB*



TN *



F*



ER*



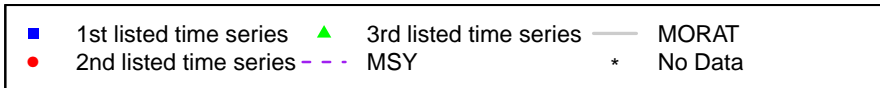
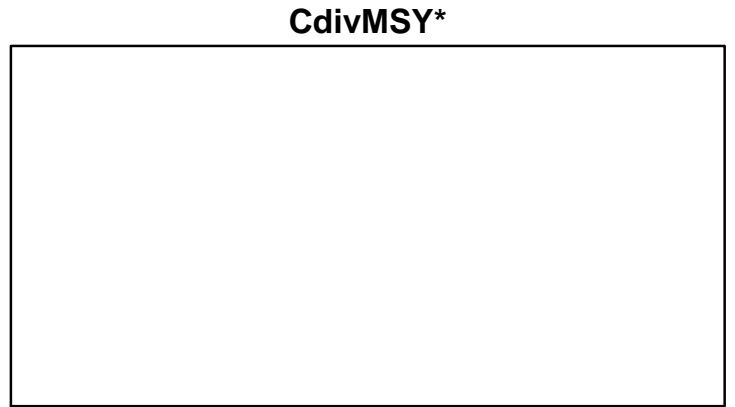
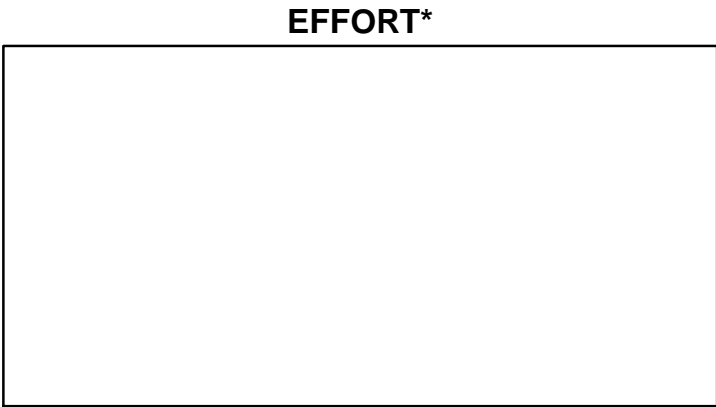
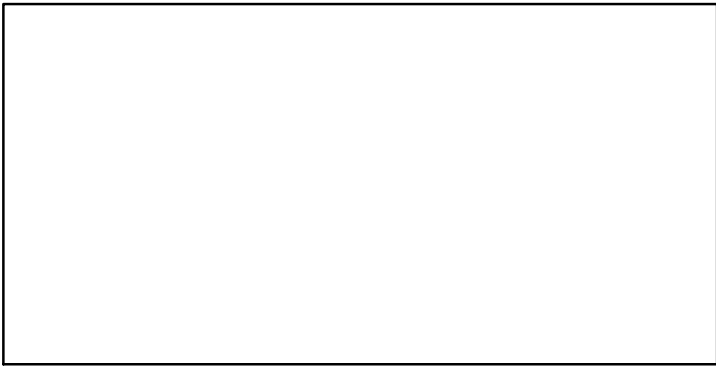
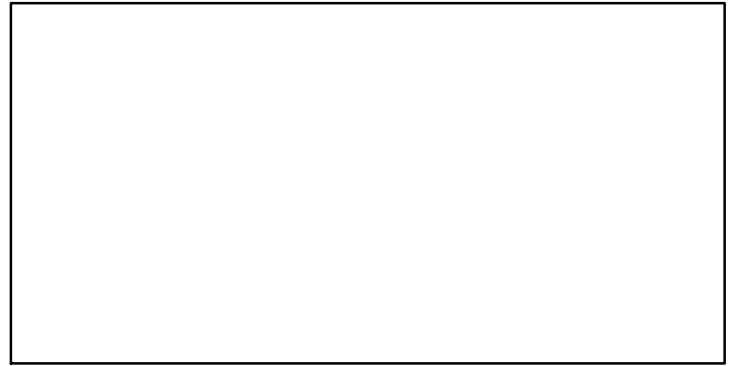
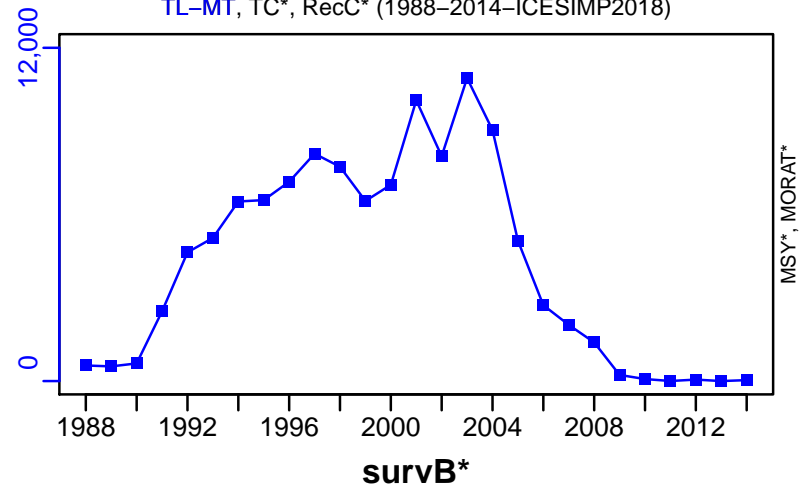
Recruits*



Leafscale gulper shark Northeast Atlantic [LGSHARNEATL]

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

TAC*, Cpair*, Cadv*



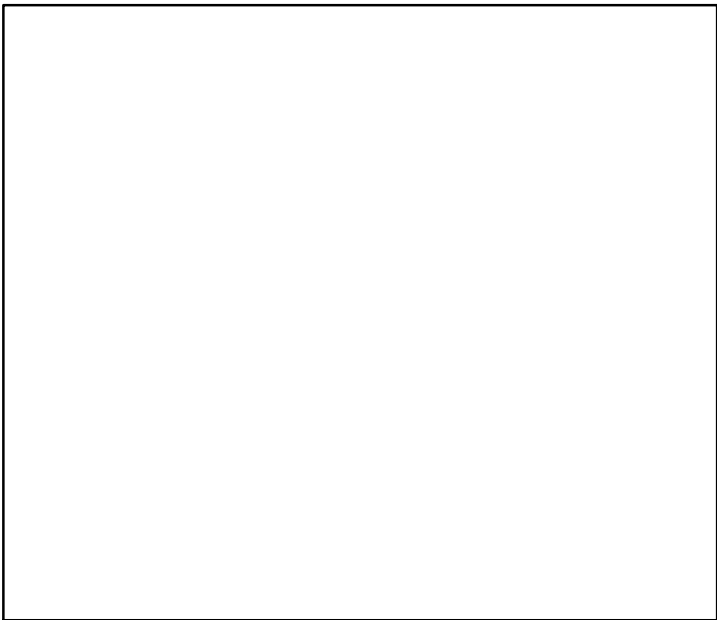
Ling Northeast Atlantic [LINGNEATL]

Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGNEATL-1988-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	144	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	19,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

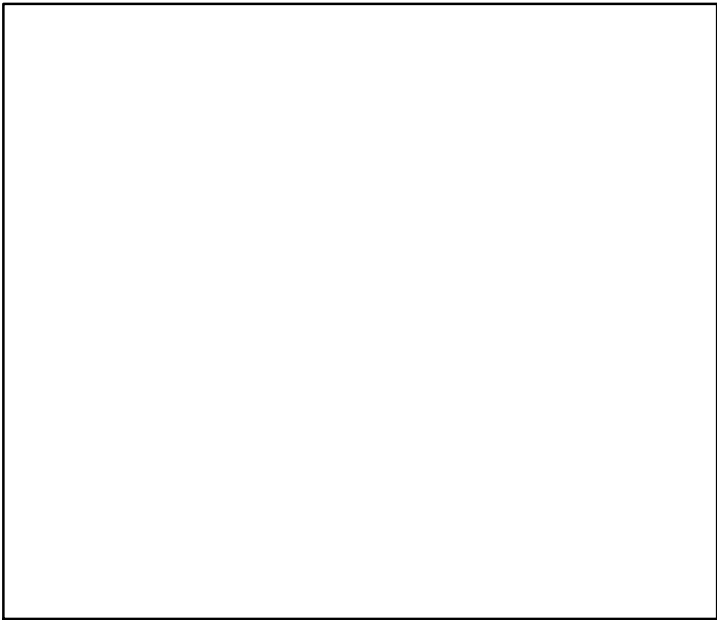
Kobe MSY*



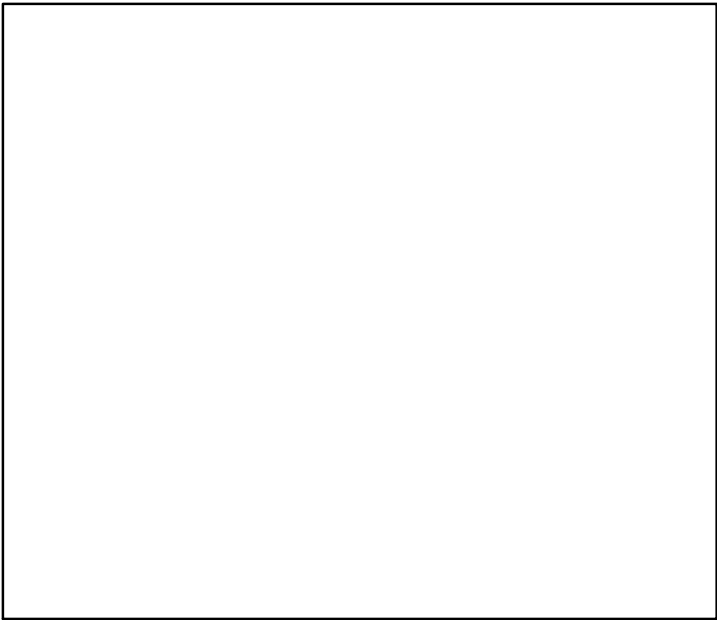
Kobe MGT*



Spawner Recruit*



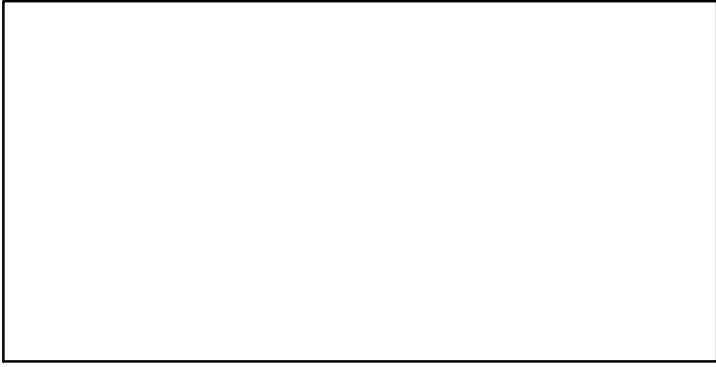
Production*



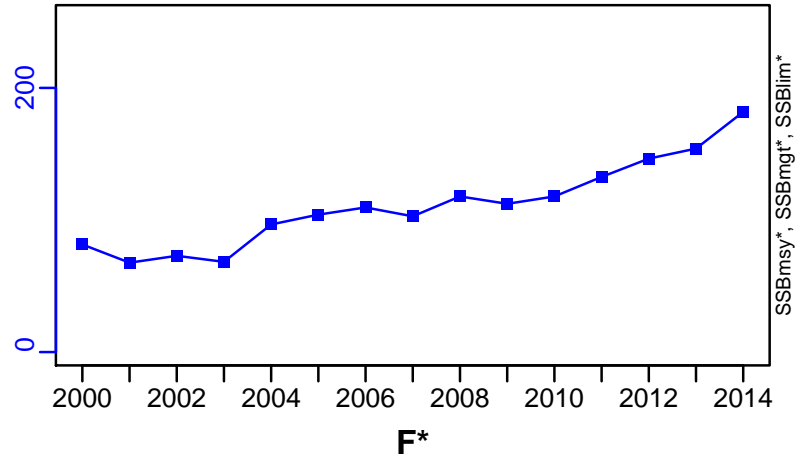
◆ Start Year ◆ End Year * No Data

Ling Northeast Atlantic [LINGNEATL]

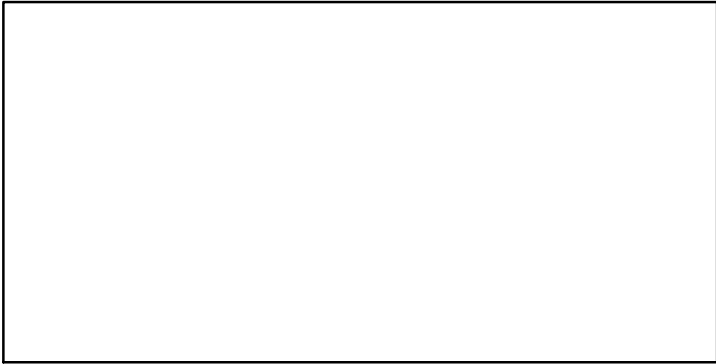
TB*



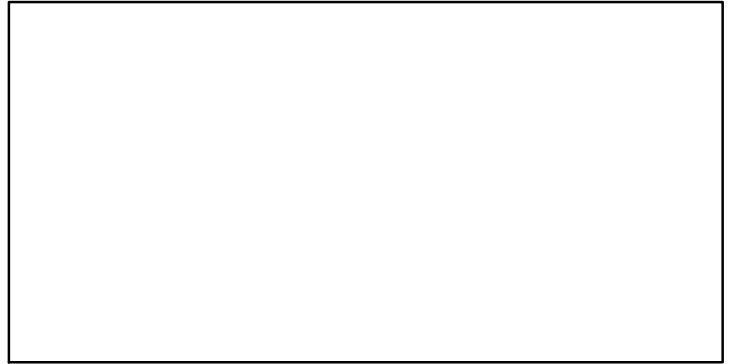
SSB-MT (1988–2014–ICESIMP2018)



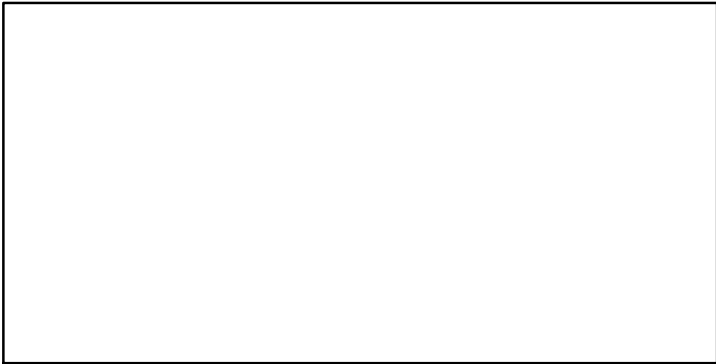
TN *



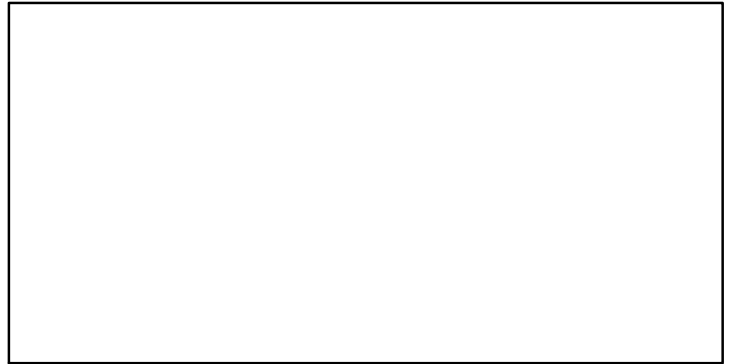
F*



ER*



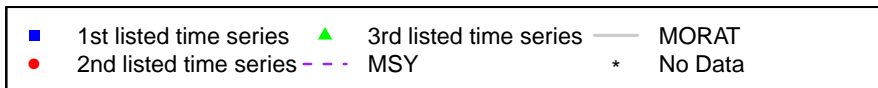
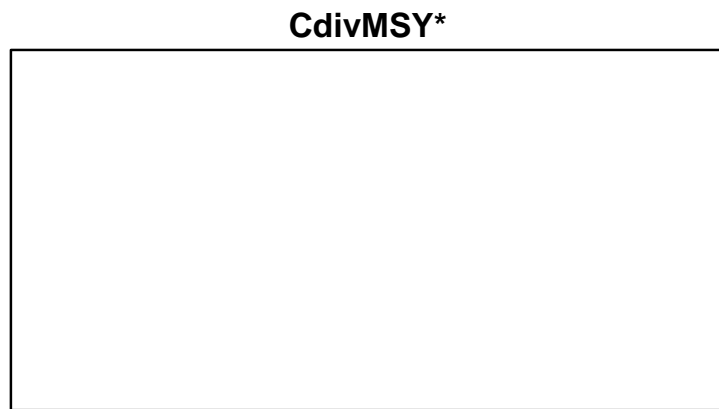
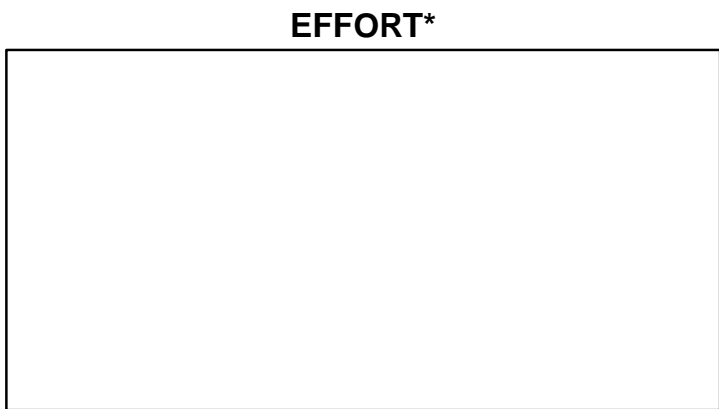
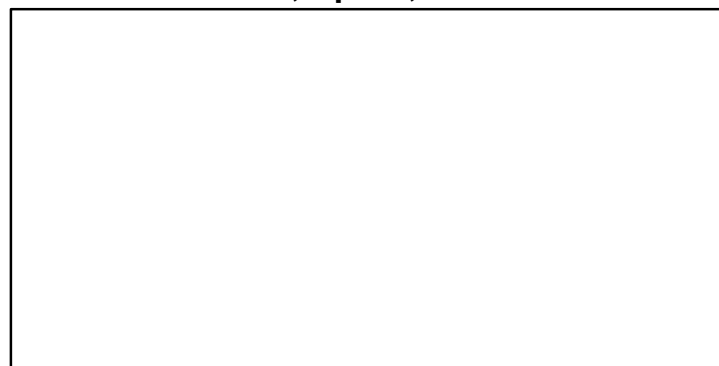
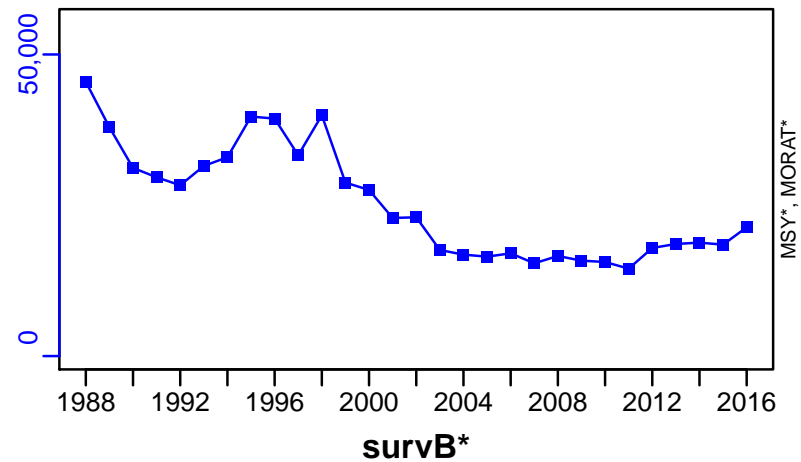
Recruits*



Ling Northeast Atlantic [LINGNEATL]

TL-MT, TC*, RecC* (1988–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



Ling Iceland Grounds [LINGVa]

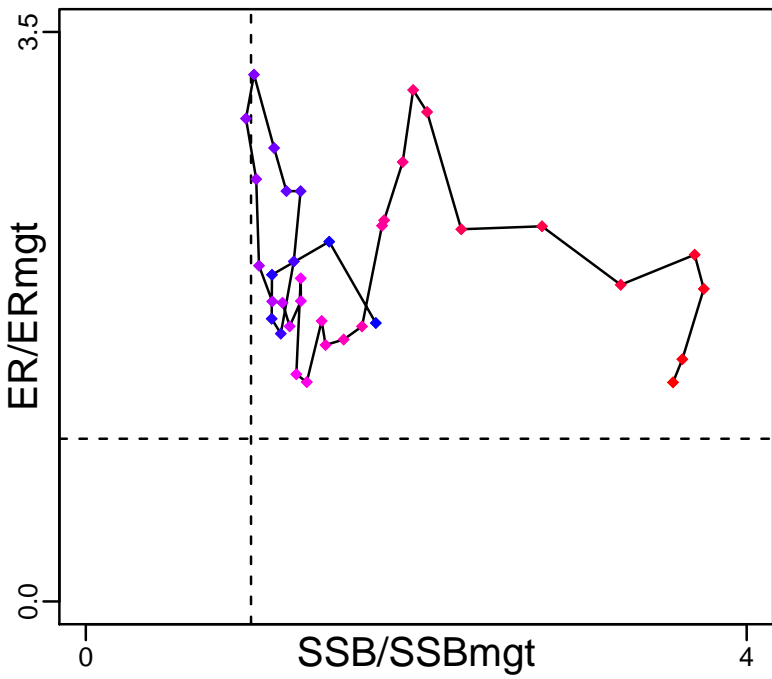
Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGVa-1979-2018-ICESIMP2018
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2017, 2018, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	9930
Fmgt	Fmgt-1/yr	2016	0.24
ERmgt	ERmgt-ratio	2018	0.18
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	7090
Flim	-	-	-
ERlim	-	-	-

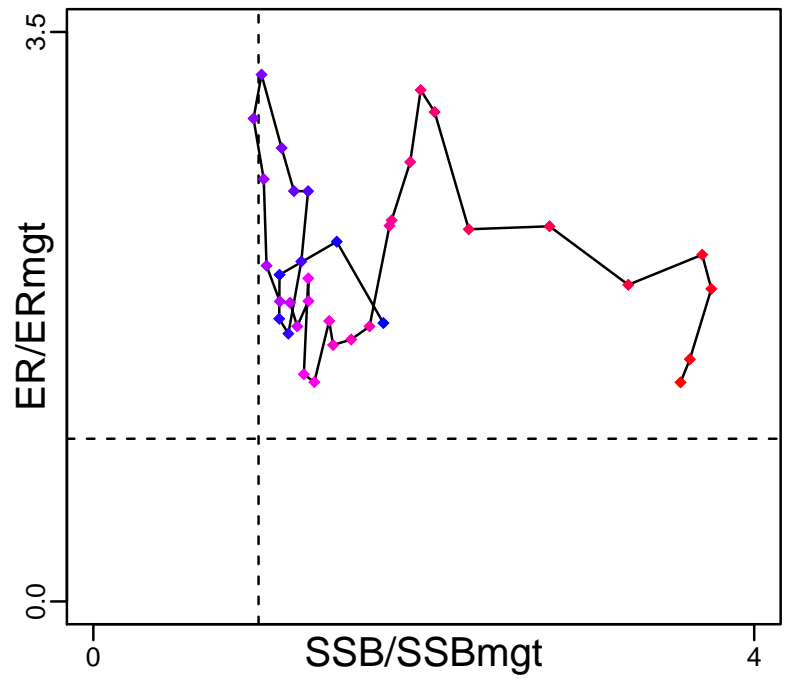
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	56,100	Both	-
SSB	SSB-MT	2018	34,200	Both	-
TN	-	-	-	-	-
R	R-E00	2018	5,440,000	-	3
F	F-1/yr	2016	0.28	-	-
ER	ER-ratio	2018	0.242	-	-
TC	TC-MT	2018	8770		
TL	TL-MT	2014	11,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.167		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	3.444		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.167		
ER/ERmgt	-	-	-		

Ling Iceland Grounds [LINGVa]

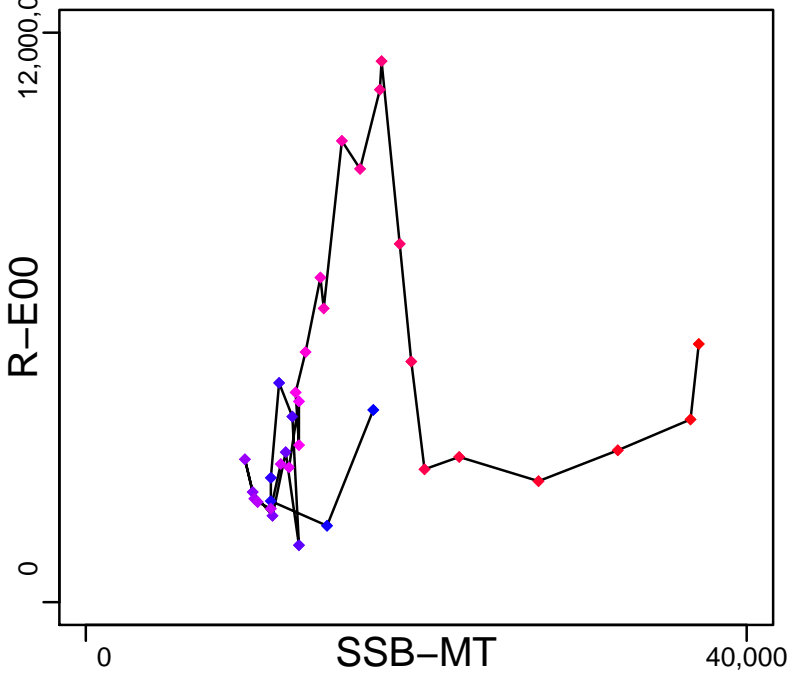
Kobe MSYpref (1979–2018–ICESIMP2018)



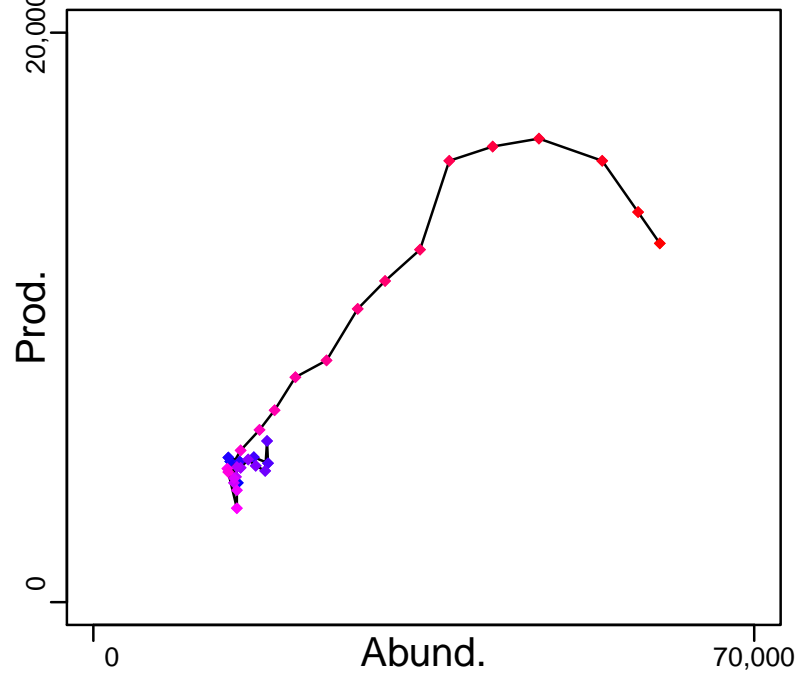
Kobe MGTpref (1979–2018–ICESIMP2018)



Spawner Recruit (1979–2018–ICESIMP2018)



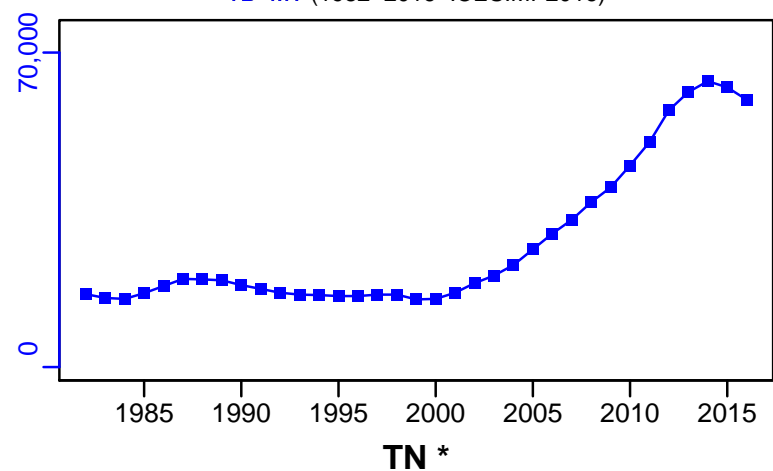
Production (1982–2016–ICESIMP2016)



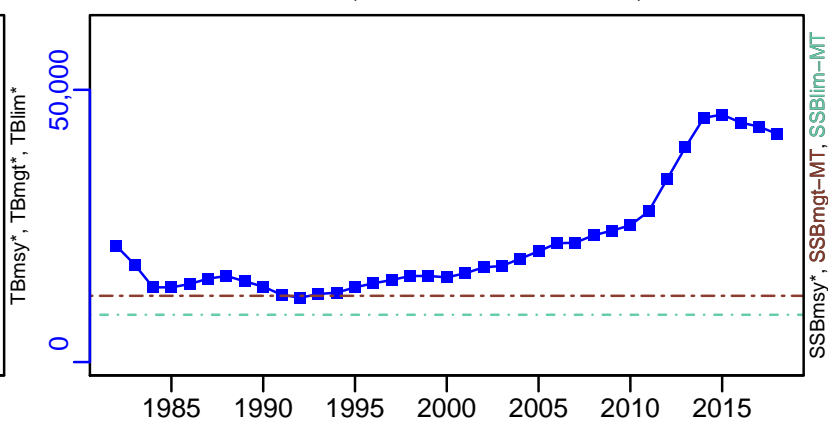
◆ Start Year ◆ End Year * No Data

Ling Iceland Grounds [LINGVa]

TB-MT (1982–2016–ICESIMP2016)



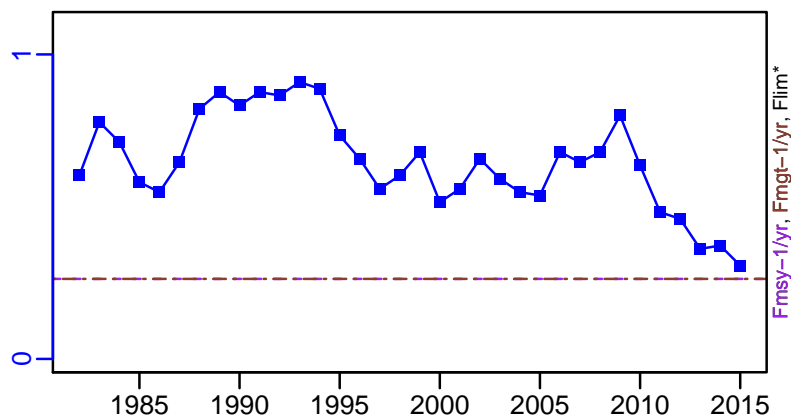
SSB-MT (1979–2018–ICESIMP2018)



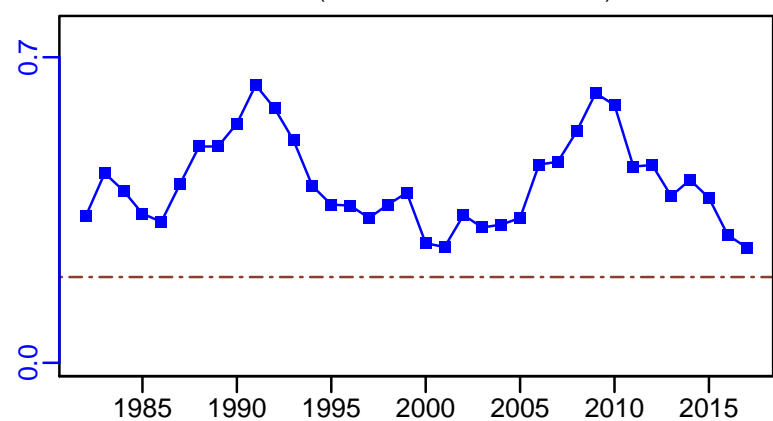
TN *



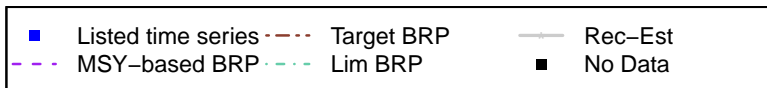
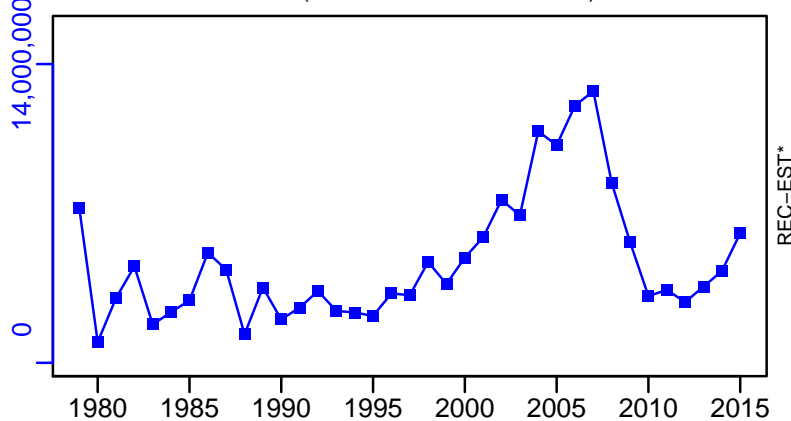
F-1/yr (1982–2016–ICESIMP2016)



ER-ratio (1979–2018–ICESIMP2018)

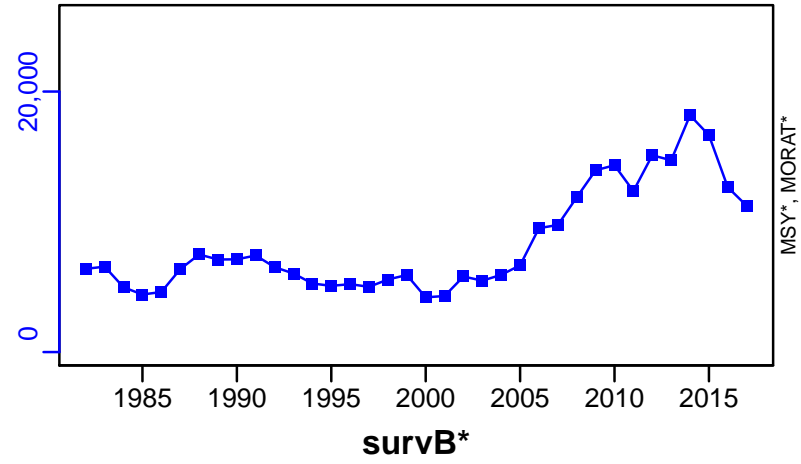


R-E00 (1979–2018–ICESIMP2018)

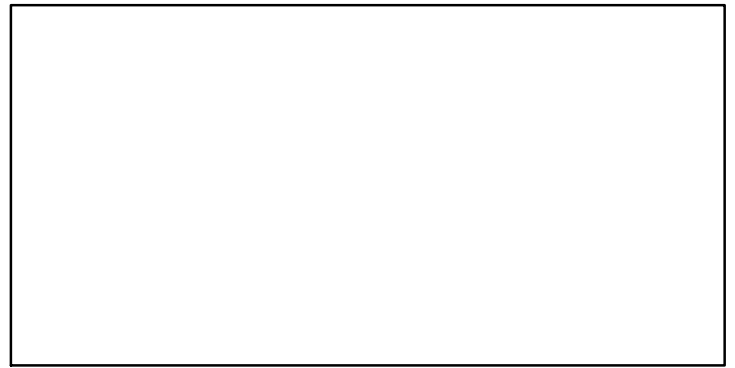


Ling Iceland Grounds [LINGVa]

TC-MT, TL*, RecC* (1979-2018-ICESIMP2018)



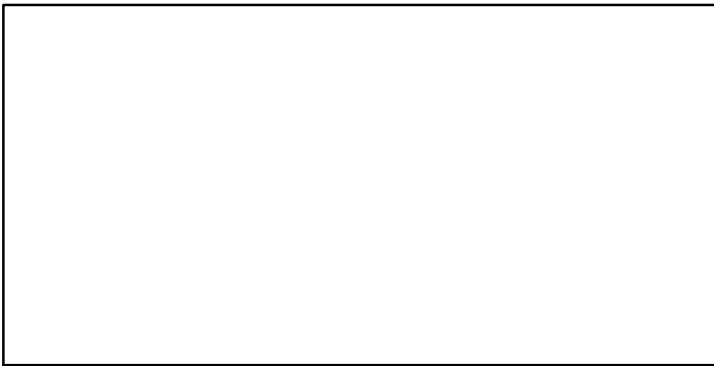
TAC*, Cpair*, Cadv*



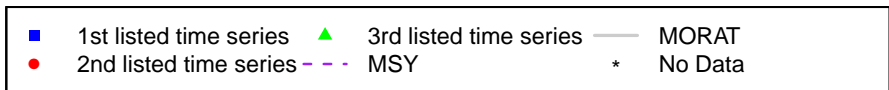
CPUE*



EFFORT*



CdivMSY*



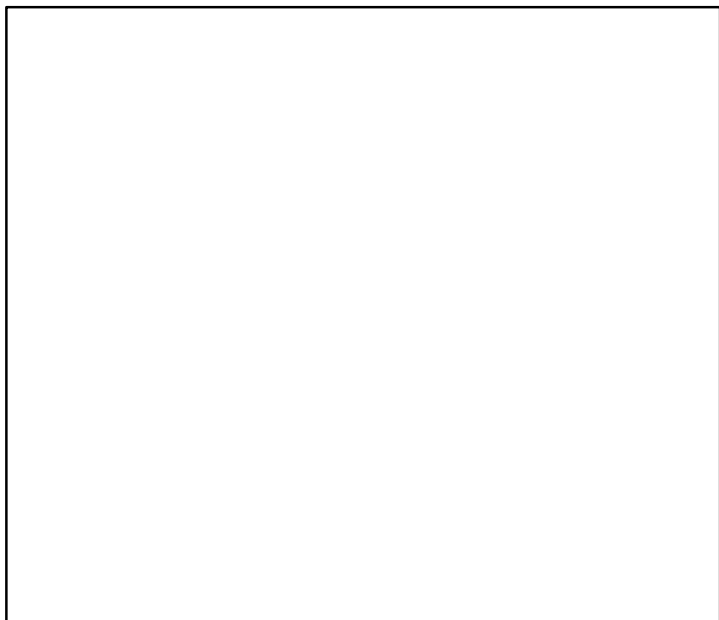
Lesser spotted dogfish IIIa, VIId and North Sea [LSDOGIIIa-IV-VIId]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGIIIa-IV-VIId-2005-2016-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

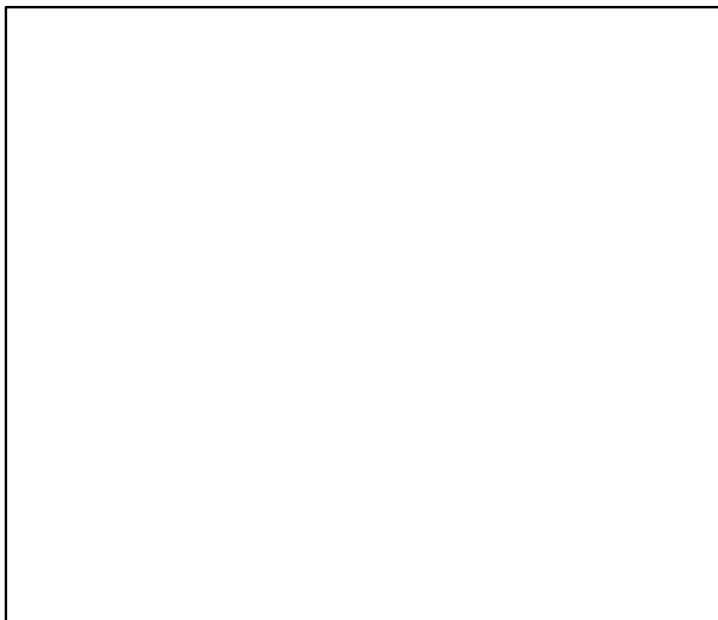
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	1.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2970		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

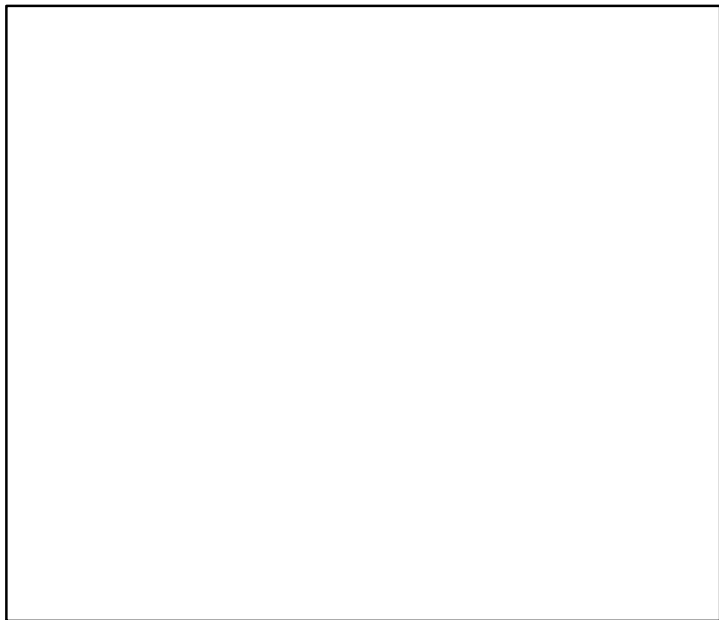
Kobe MSY*



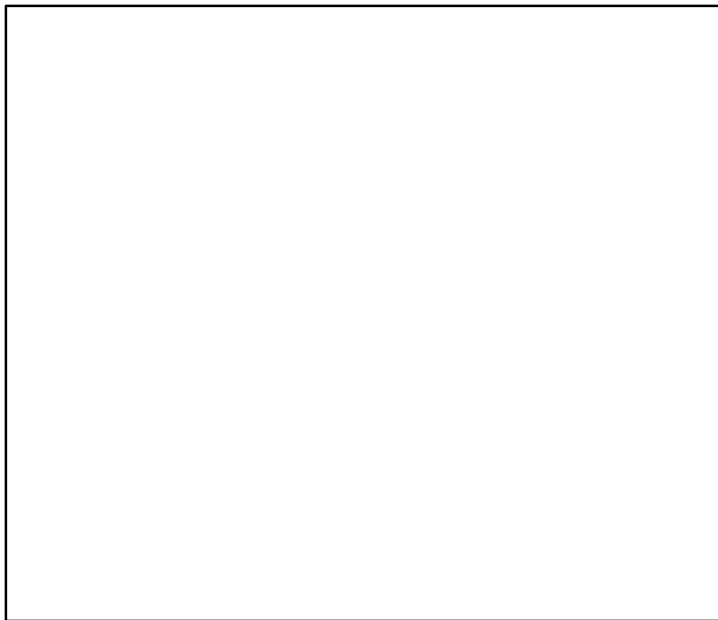
Kobe MGT*



Spawner Recruit*



Production*

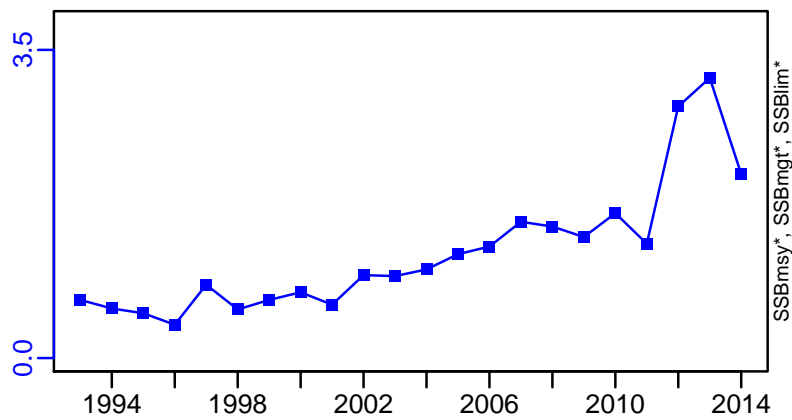


◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish IIIa, VIId and North Sea [LSDOGIIIa–IV–VIId]

TB*

SSB-MT (1993–2014–ICESIMP2018)



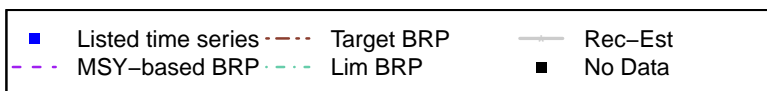
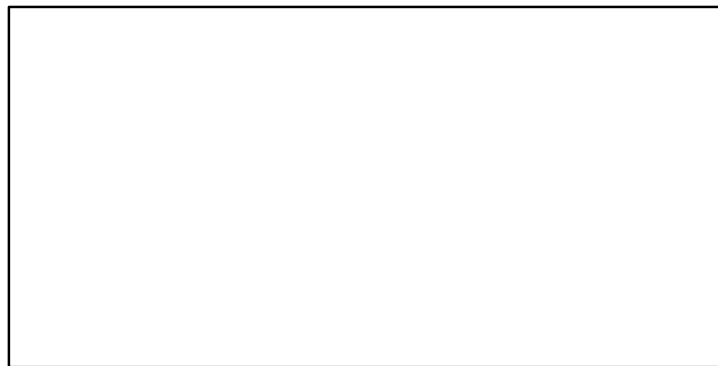
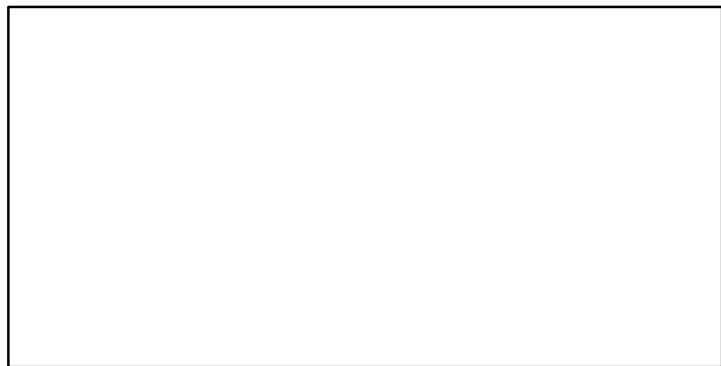
TN *

F*



ER*

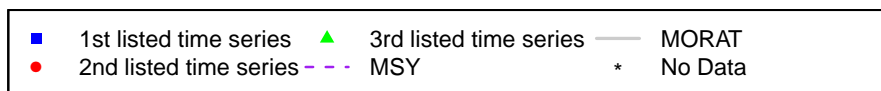
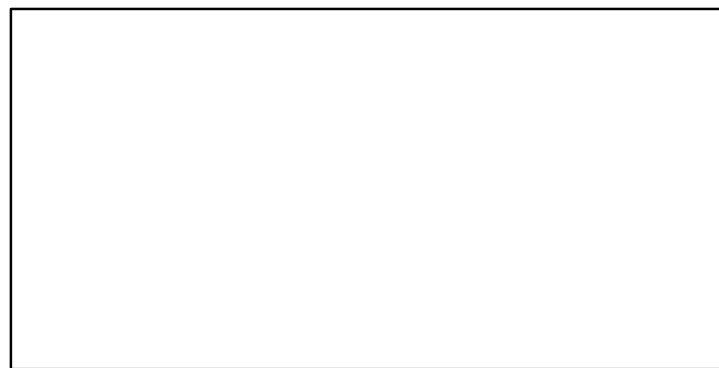
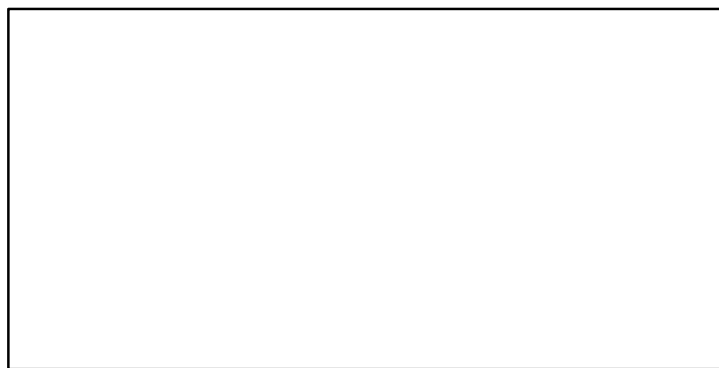
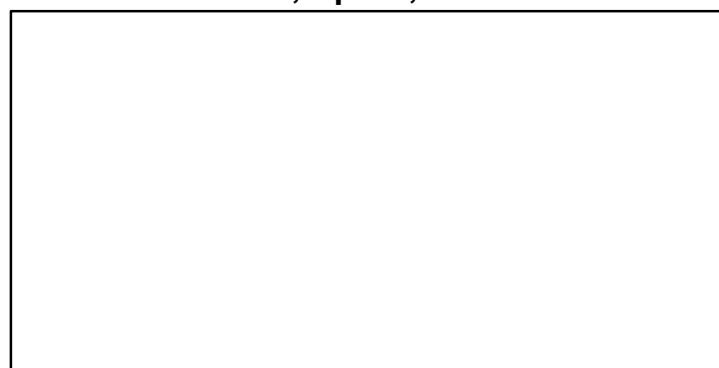
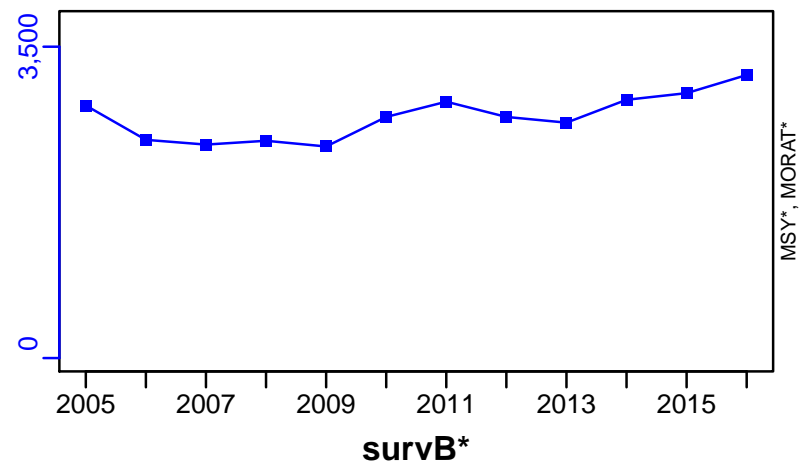
Recruits*



Lesser spotted dogfish IIIa, VIId and North Sea [LSDOGIIIa–IV–VIId]

TL–MT, TC*, RecC* (2005–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



Lesser spotted dogfish ICES VIIIabd [LSDOGVIIIabd]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVIIIabd-1997-2016-ICESIMP2018
Area	ICES VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2014	1.02	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	10,200		
TL	TL-MT	2016	1000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

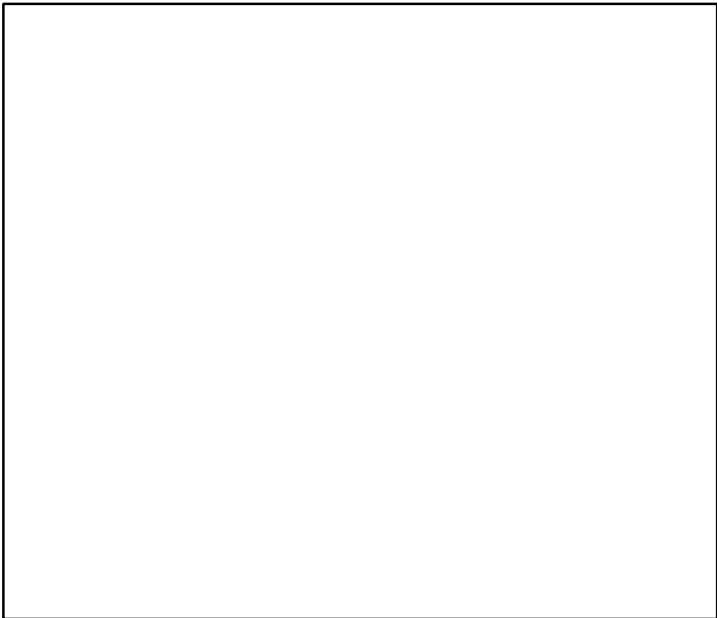
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



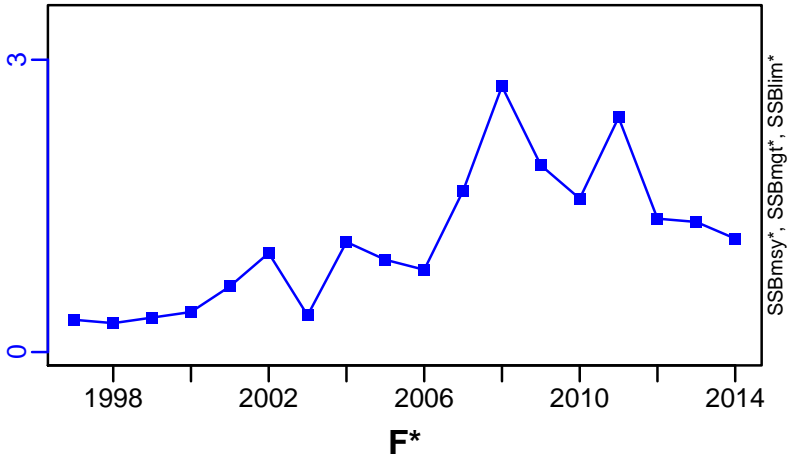
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES VIIIabd [LSDOGVIIIabd]

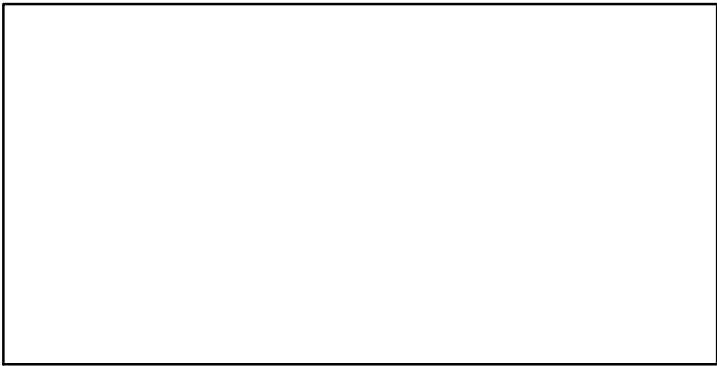
TB*



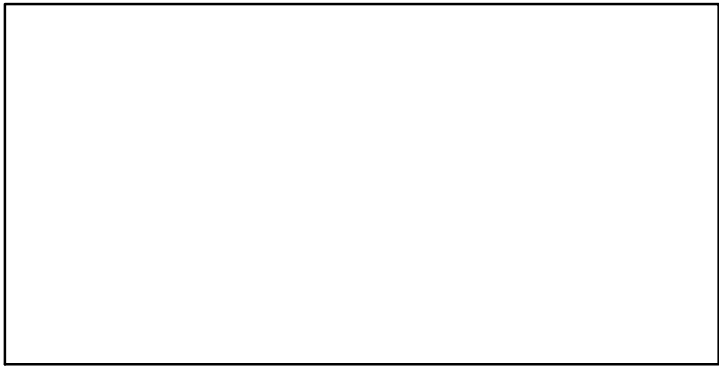
SSB-MT (1997–2014–ICESIMP2018)



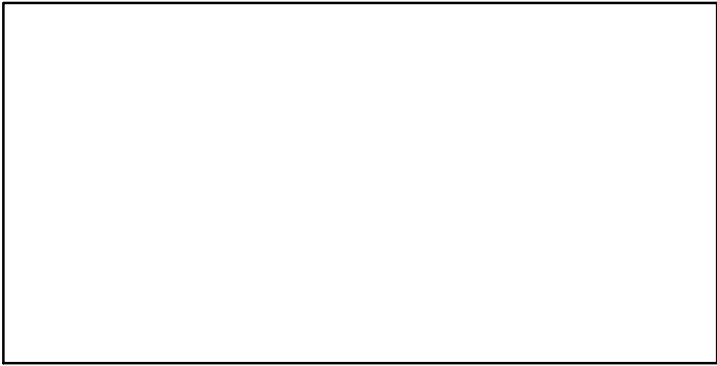
TN *



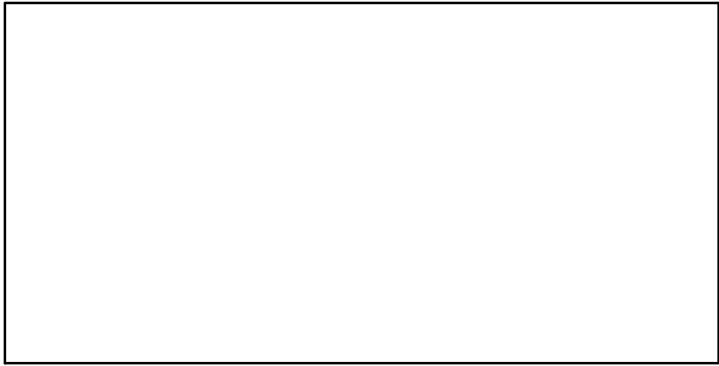
F*



ER*



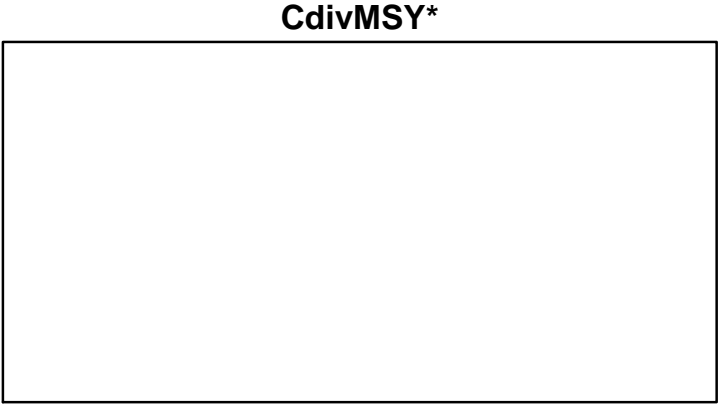
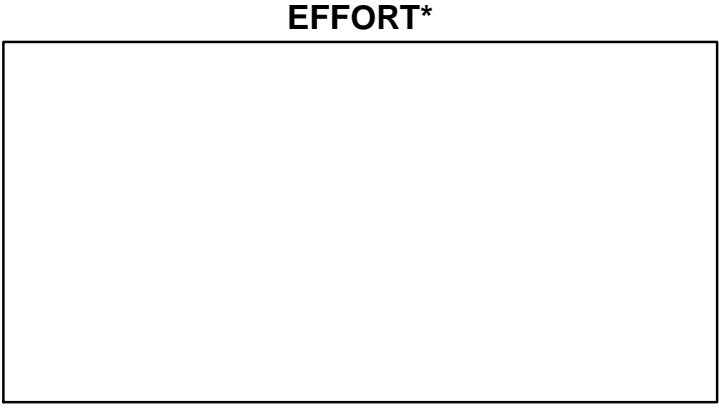
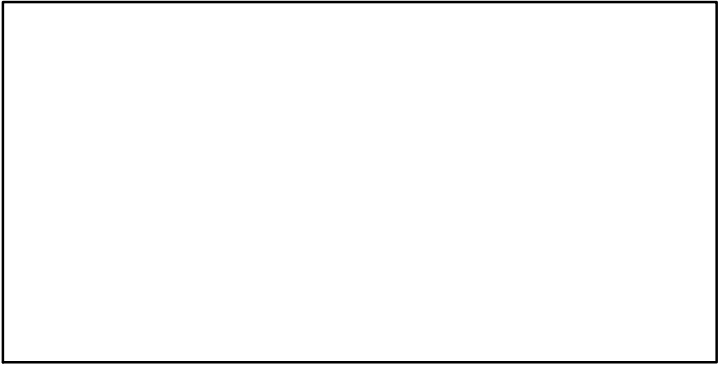
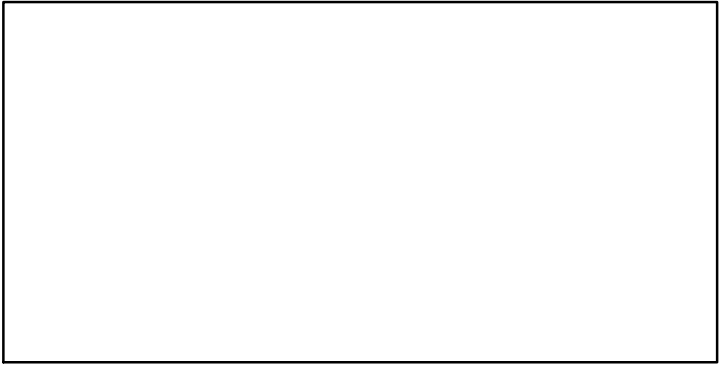
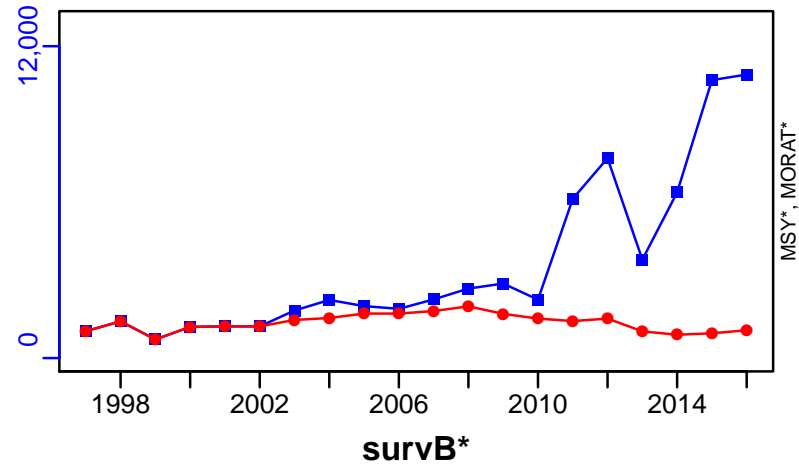
Recruits*



Lesser spotted dogfish ICES VIIIabd [LSDOGVIIIabd]

TC-MT, TL-MT, RecC* (1997-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Lesser spotted dogfish VIIIc-IXa [LSDOGVIIIc-IXa]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVIIIc-IXa-1996-2016-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2016, 2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	1.42	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	988		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

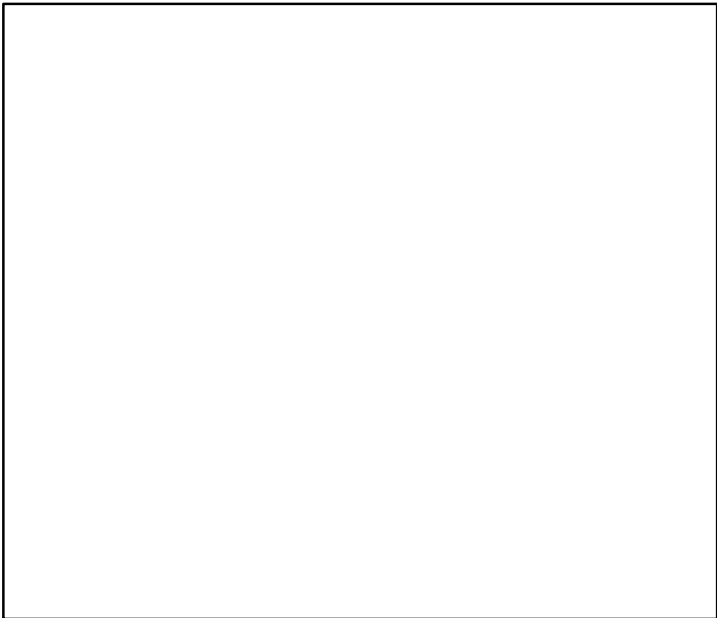
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



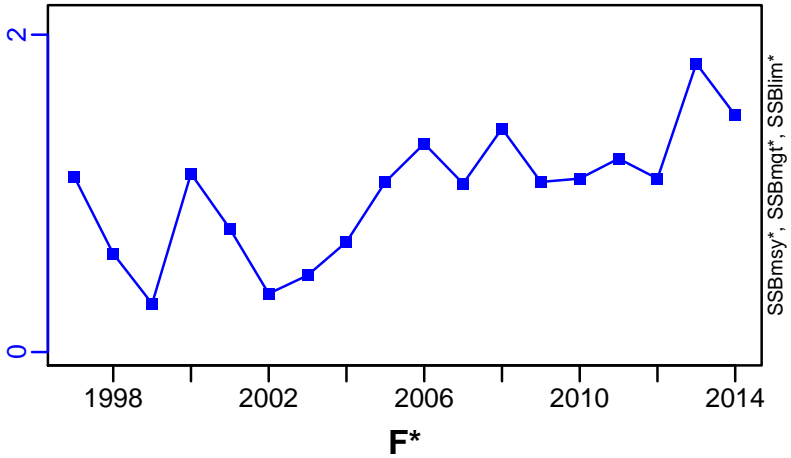
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish VIIIc-IXa [LSDOGVIIIc-IXa]

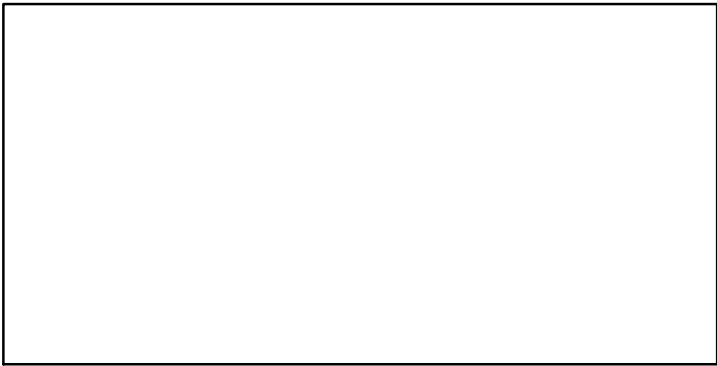
TB*



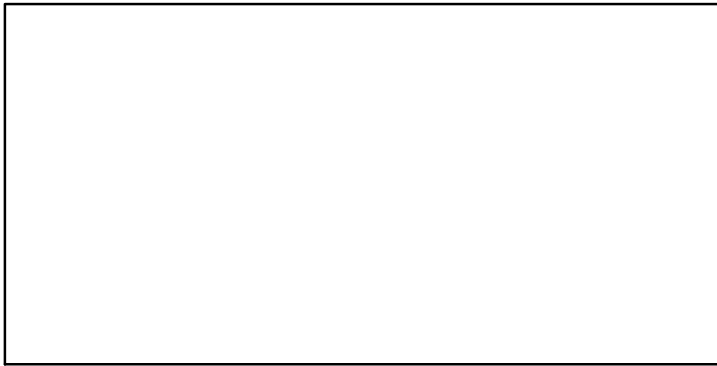
SSB-MT (1997-2014-ICESIMP2018)



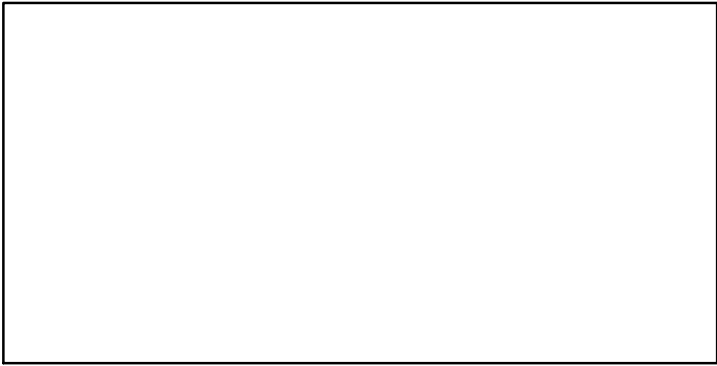
TN *



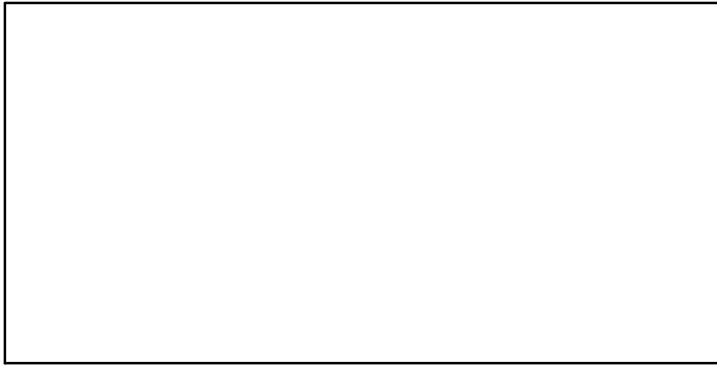
F*



ER*

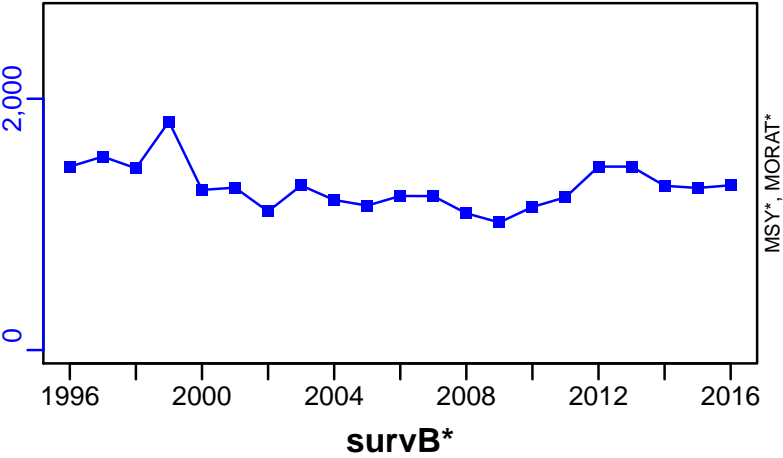


Recruits*

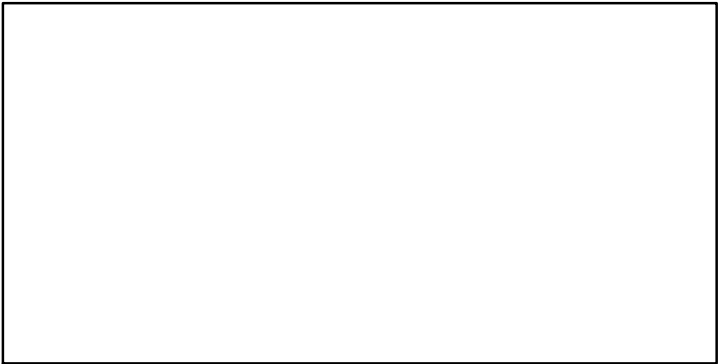


Lesser spotted dogfish VIIIc-IXa [LSDOGVIIIc-IXa]

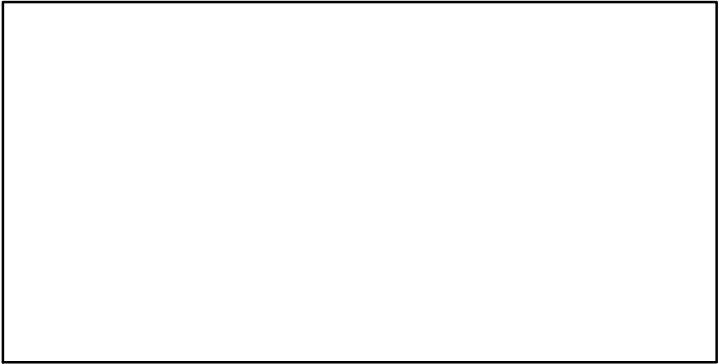
TL-MT, TC*, RecC* (1996-2016-ICESIMP2018)



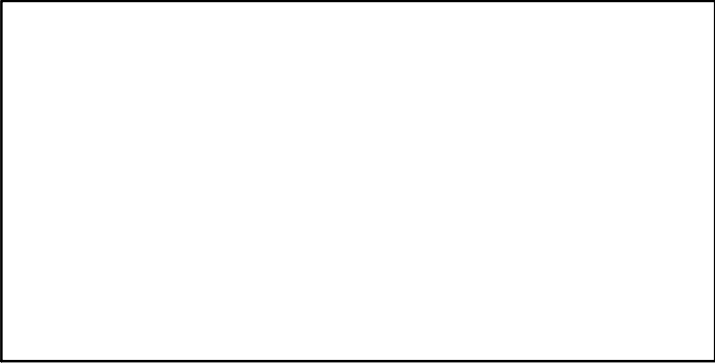
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



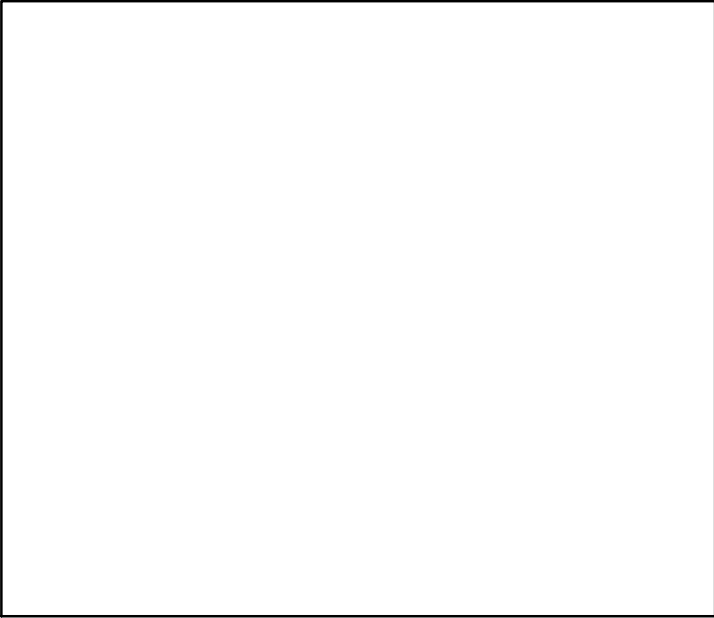
Lesser spotted dogfish ICES VI-VIIabcefg hij [LSDOGVI-VIIabcefg hij]

Metadata	
Scientific Name	Scyliorhinus canicula
Current Assess ID	WGEF-LSDOGVI-VIIabcefg hij-2005-2016-ICESIMP2018
Area	ICES VI-VIIabcefg hij
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

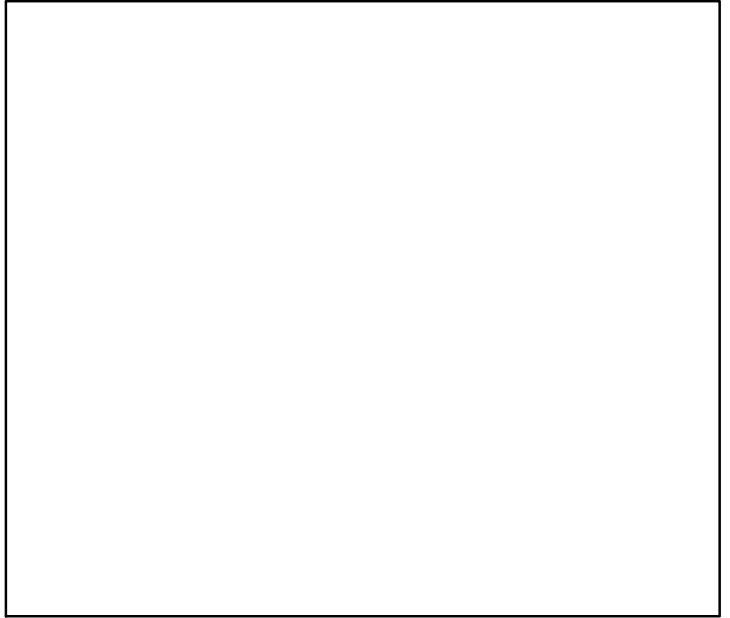
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	1.14	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	3930		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

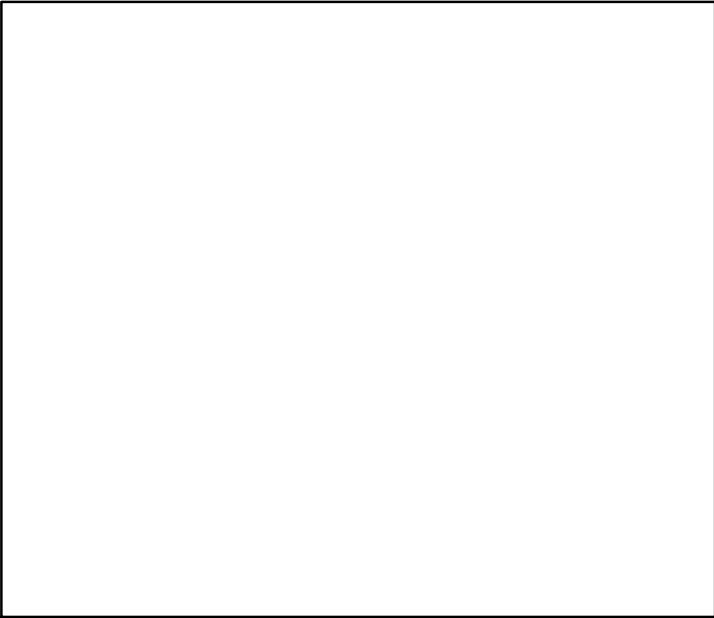
Kobe MSY*



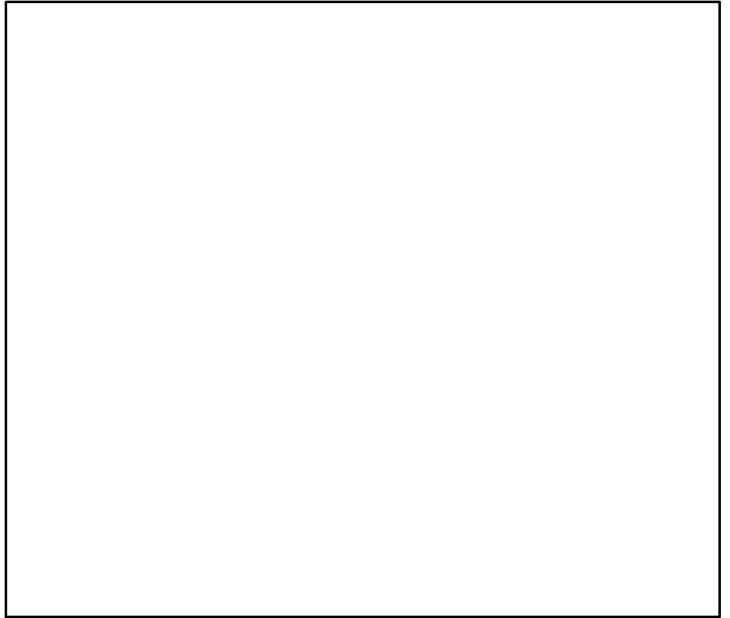
Kobe MGT*



Spawner Recruit*



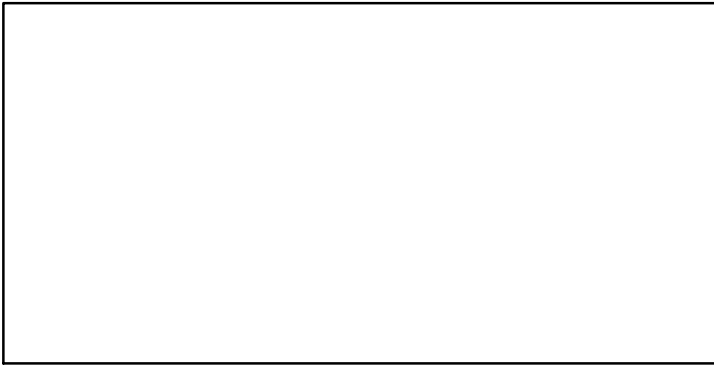
Production*



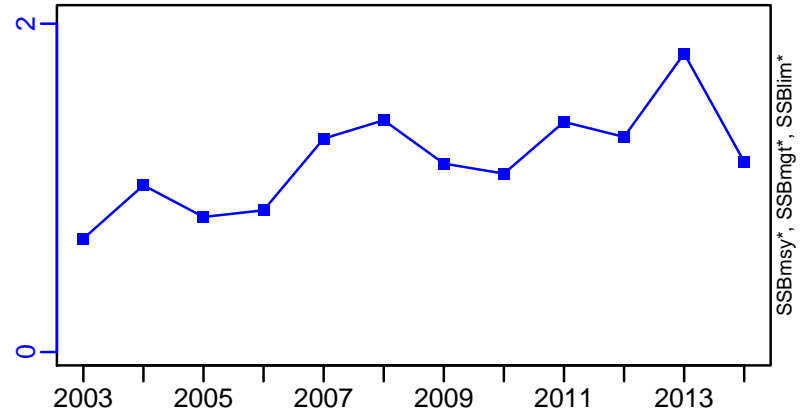
◆ Start Year ◆ End Year * No Data

Lesser spotted dogfish ICES VI–VIIabcefg hij [LSDOGVI–VIIabcefg hij]

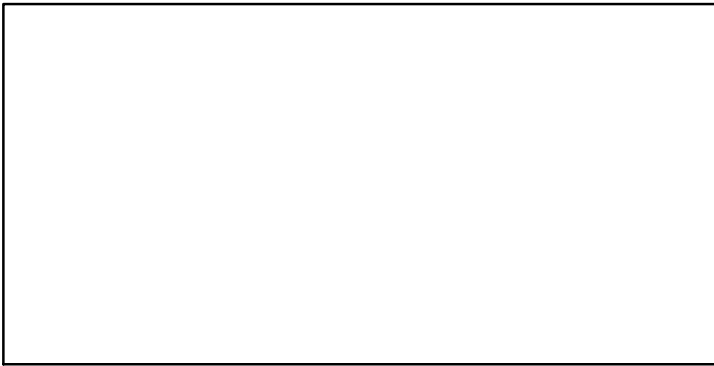
TB*



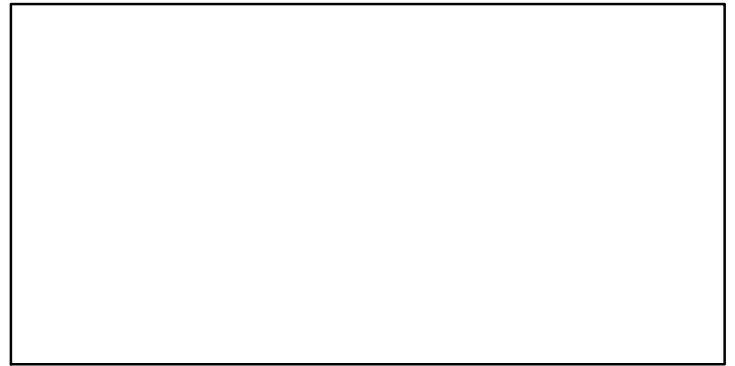
SSB-MT (2003–2014–ICESIMP2018)



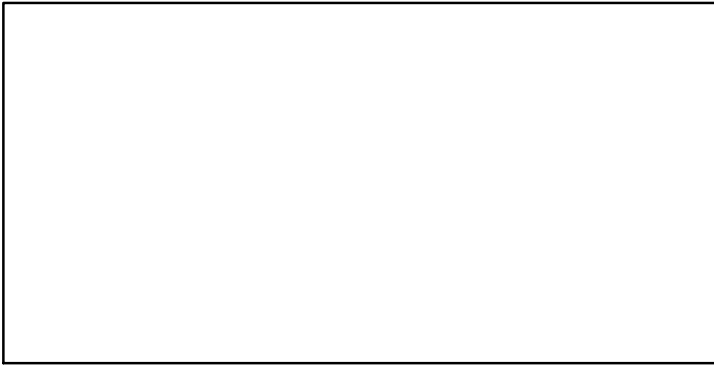
TN *



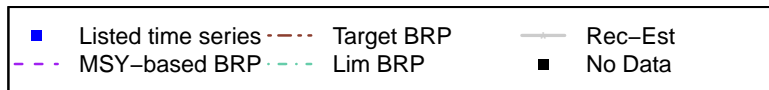
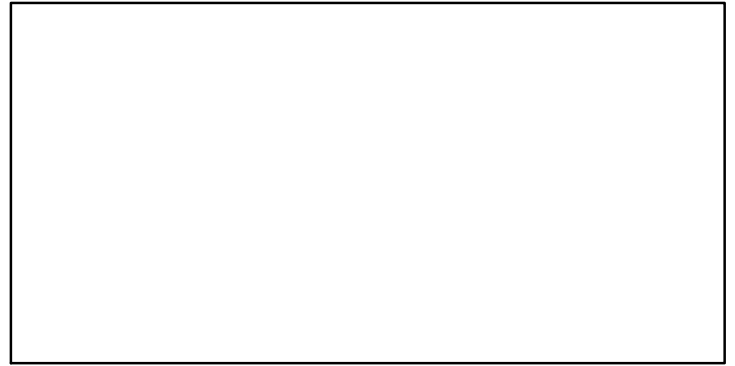
F*



ER*



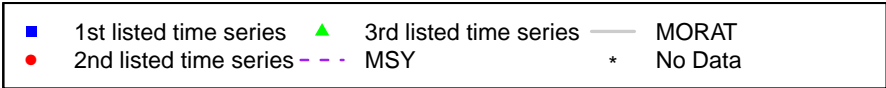
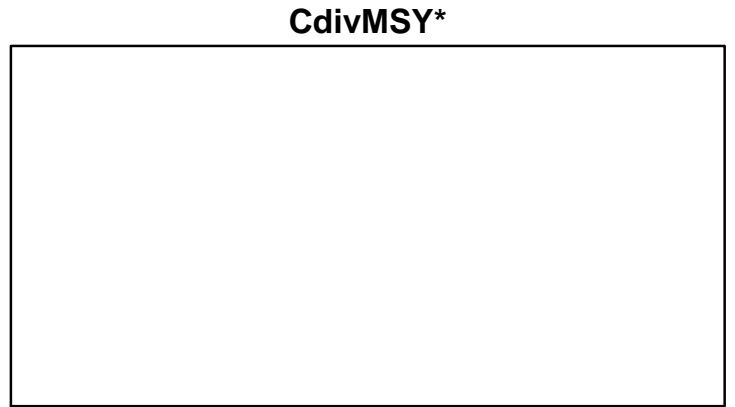
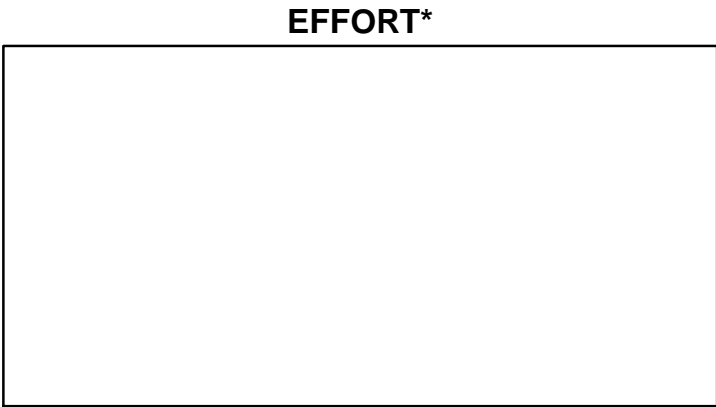
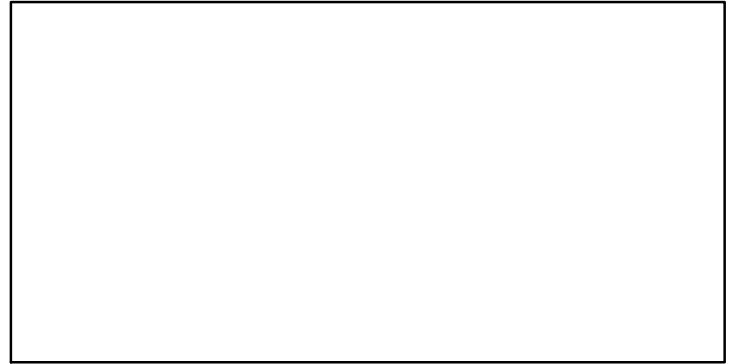
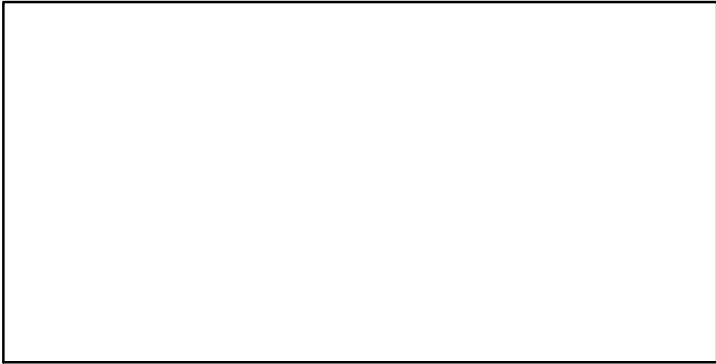
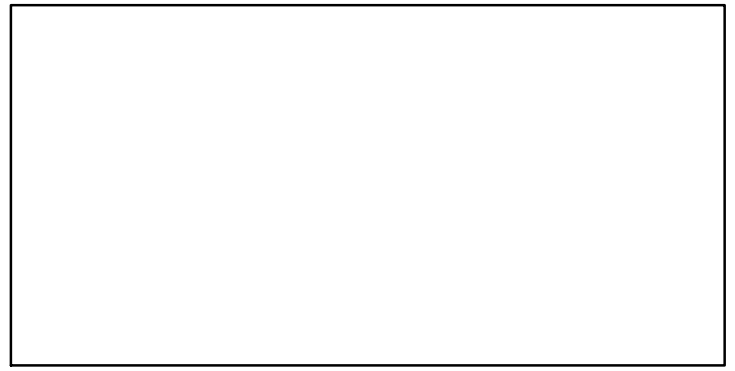
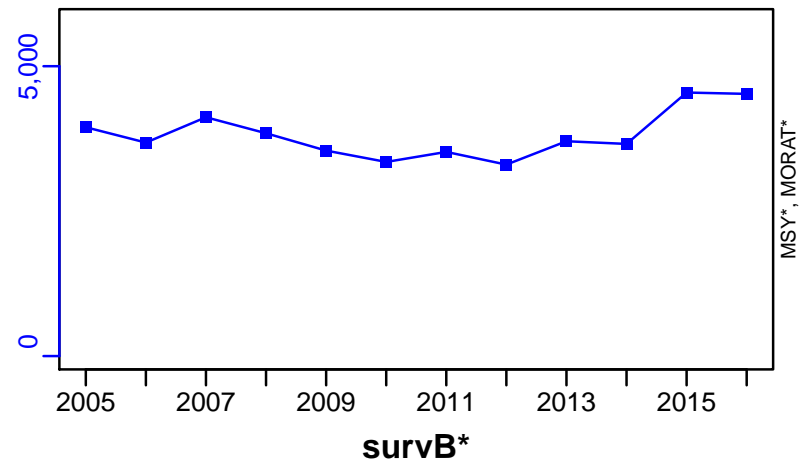
Recruits*



Lesser spotted dogfish ICES VI–VIIabcefg hij [LSDOGVI–VIIabcefg hij]

TL–MT, TC*, RecC* (2005–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



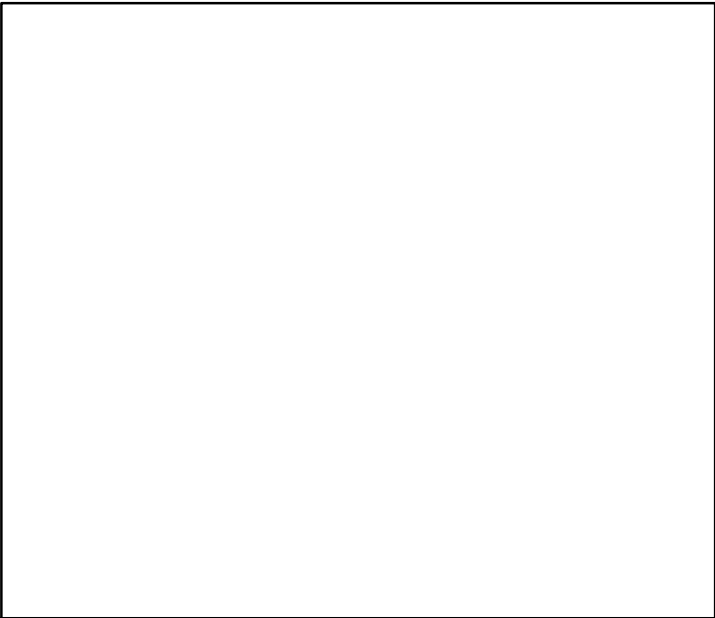
Lemon sole IIIa, VIId and North Sea [LSOLEIIIa-IV-VIId]

Metadata	
Scientific Name	Microstomus kitt
Current Assess ID	WGNSSK-LSOLEIIIa-IV-VIId-1968-2016-ICESIMP2018
Area	IIIa, VIId and 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	2016, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	1.73	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5010		
TL	TL-MT	2016	3780		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

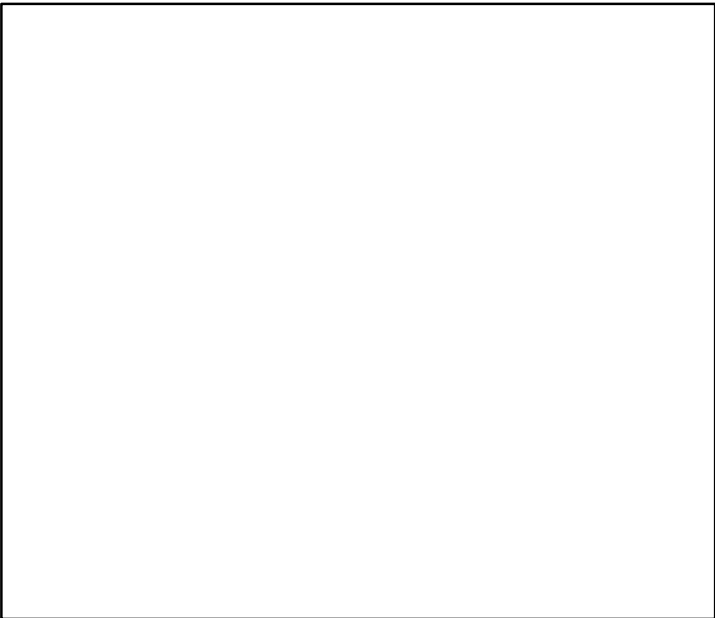
Kobe MSY*



Kobe MGT*



Spawner Recruit*



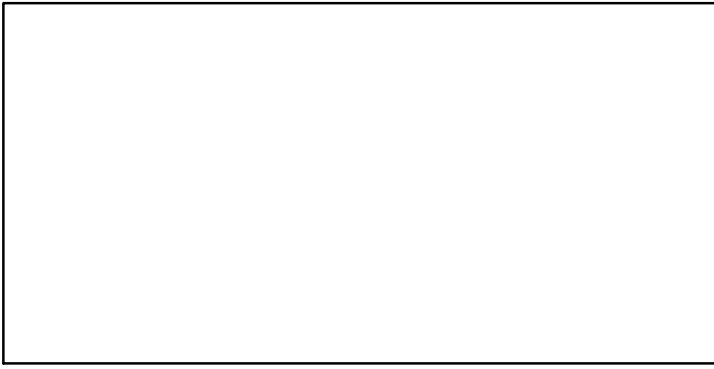
Production*



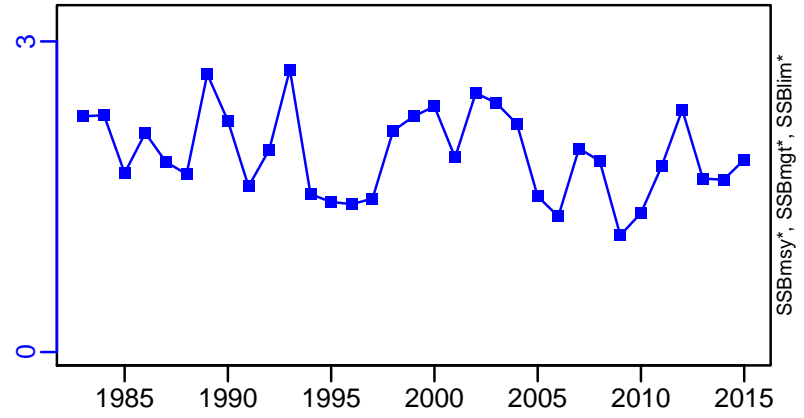
◆ Start Year ◆ End Year * No Data

Lemon sole IIIa, VIId and North Sea [LSOLEIIIa-IV-VIId]

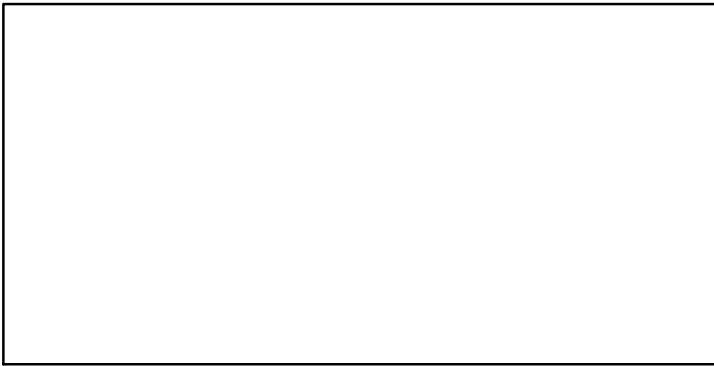
TB*



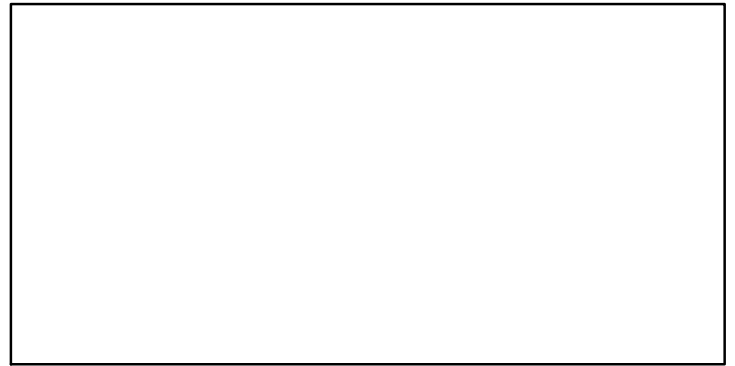
SSB-MT (1983–2015–ICESIMP2018)



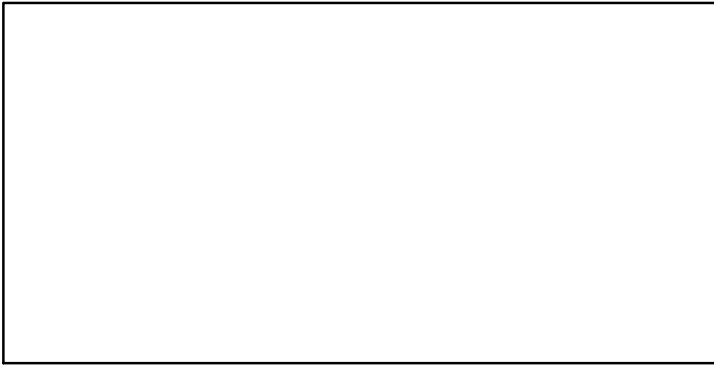
TN *



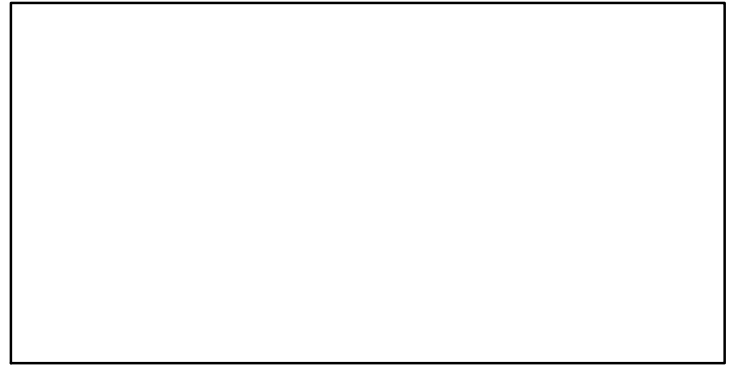
F*



ER*



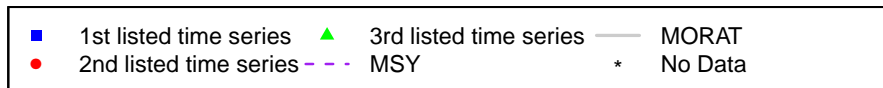
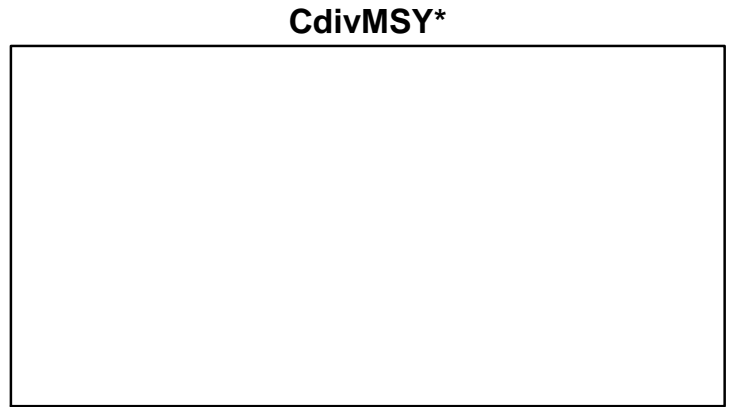
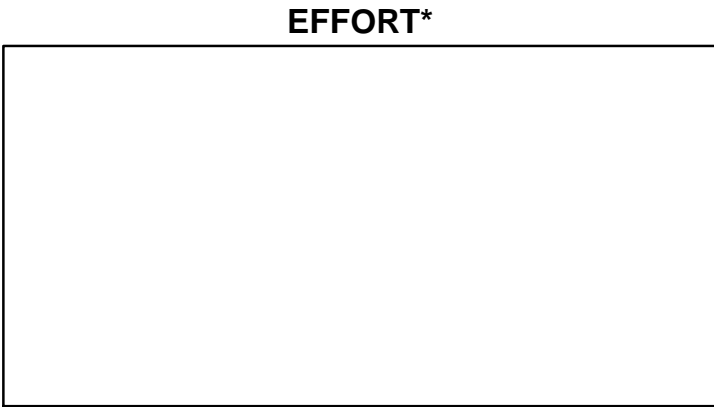
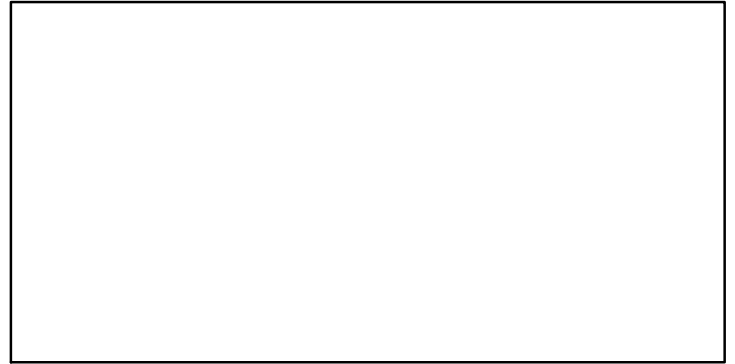
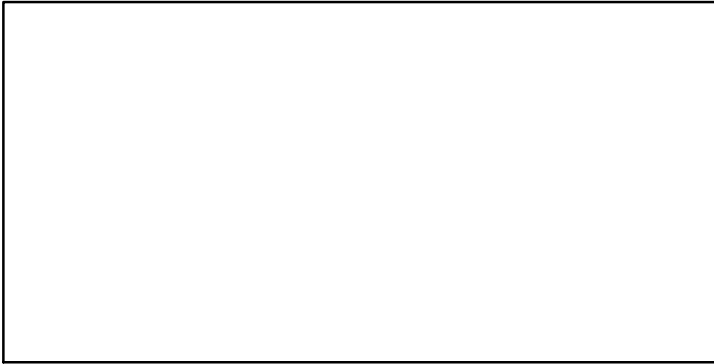
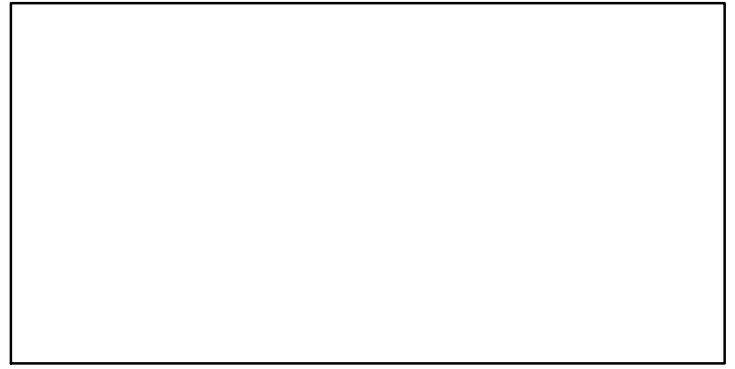
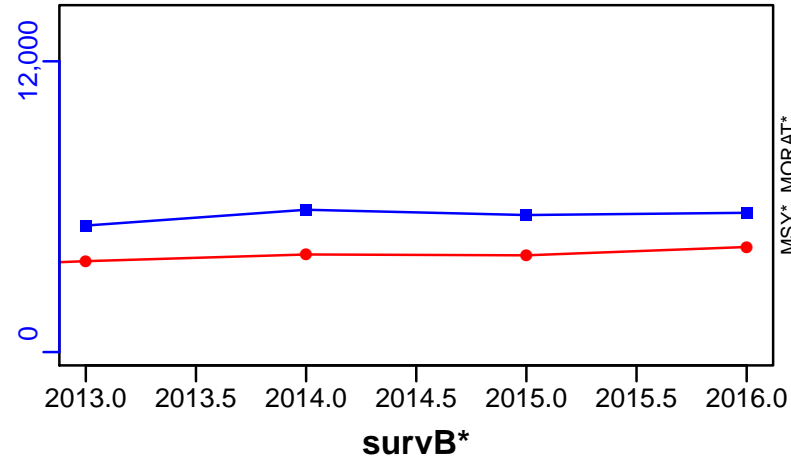
Recruits*



Lemon sole IIIa, VIId and North Sea [LSOLEIIIa-IV-VIId]

TC-MT, TL-MT, RecC* (1968-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Mackerel ICES Northeast Atlantic [MACKNEICES]

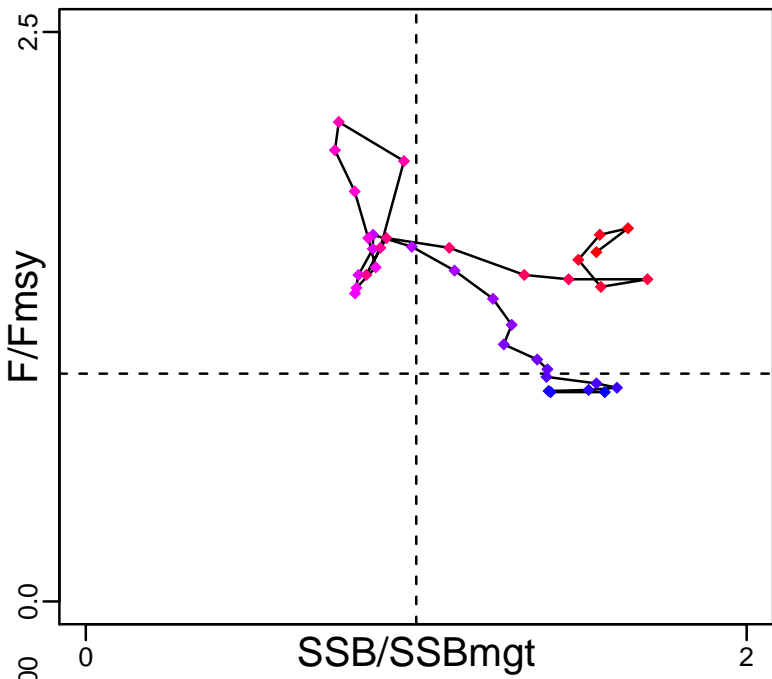
Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	WGWIDE-MACKNEICES-1980-2017-ICESIMP2018
Area	Ila-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2007, 2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.21
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	2,570,000
Fmgt	Fmgt-1/yr	2017	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	1,940,000
Flim	Flim-1/yr	2017	0.48
ERlim	-	-	-

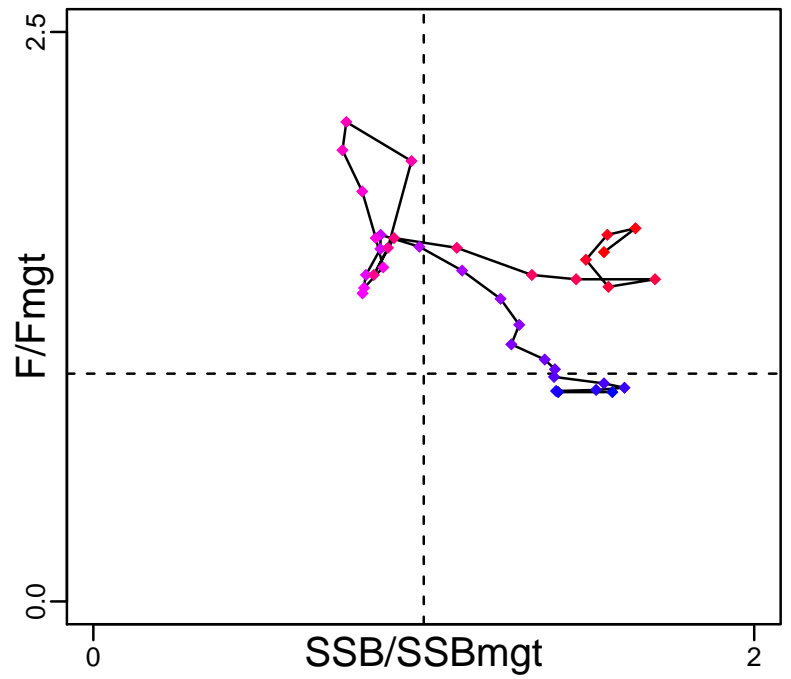
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	4,750,000	Both	-
SSB	SSB-MT	2017	3,440,000	Both	-
TN	-	-	-	-	-
R	R-E00	2017	4.26×10^9	-	0
F	F-1/yr	2017	0.322	-	4 to 8
ER	ER-calc-ratio	2017	0.23	-	-
TC	TC-MT	2017	1,090,000		
TL	TL-MT	2016	1,200,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.533		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.34		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	1.533		
ER/ERmgt	-	-	-		

Mackerel ICES Northeast Atlantic [MACKNEICES]

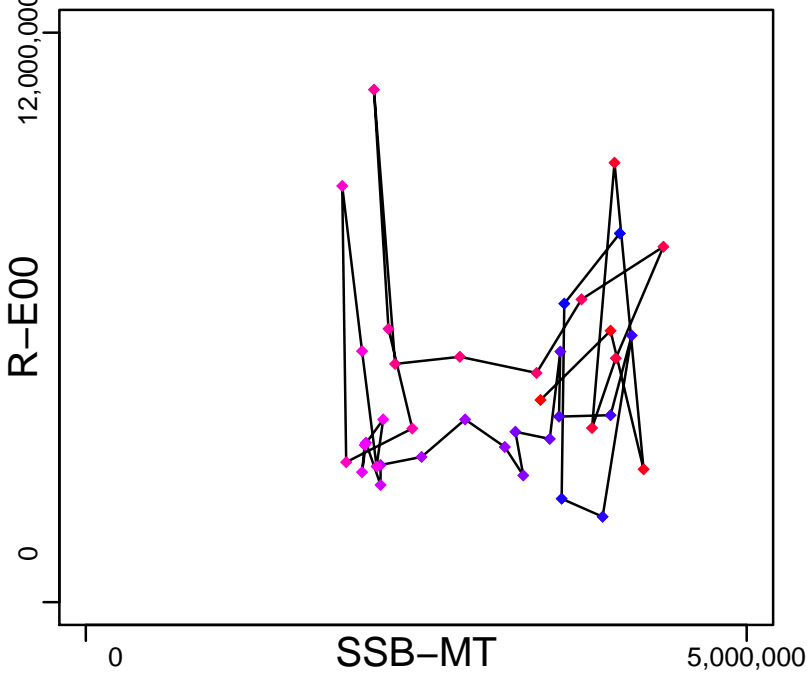
Kobe MSYpref (1980–2017–ICESIMP2018)



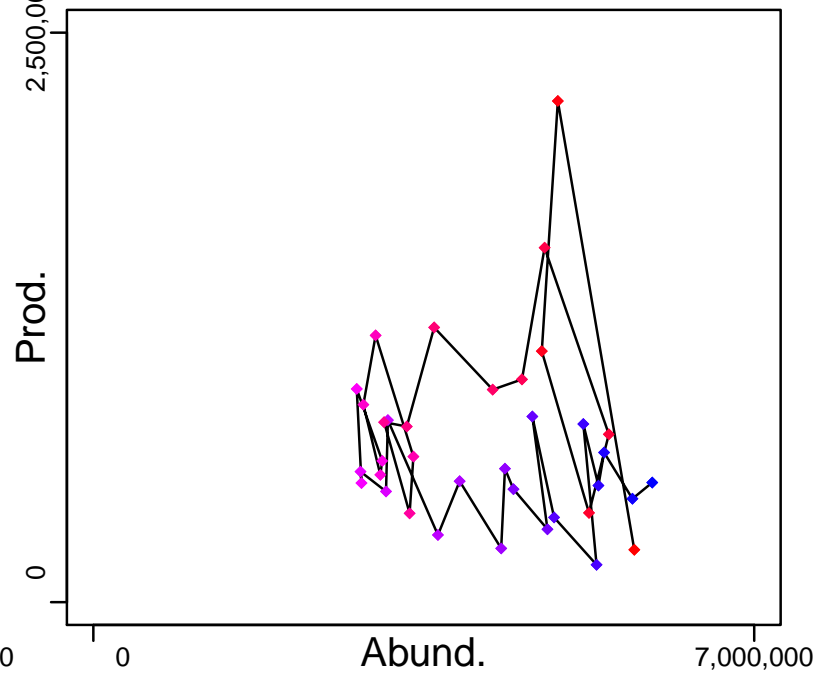
Kobe MGTpref (1980–2017–ICESIMP2018)



Spawner Recruit (1980–2017–ICESIMP2018)

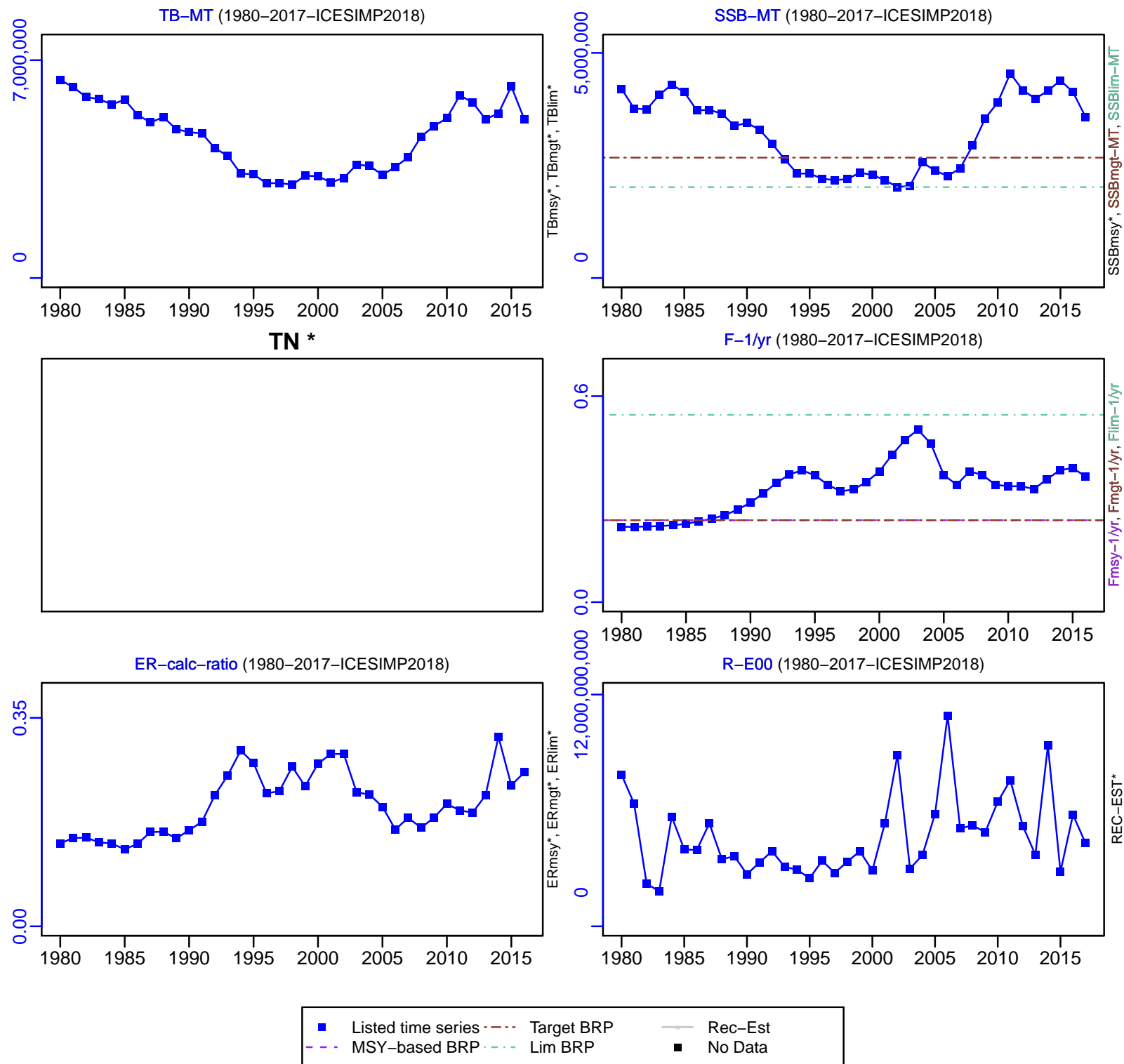


Production (1980–2017–ICESIMP2018)



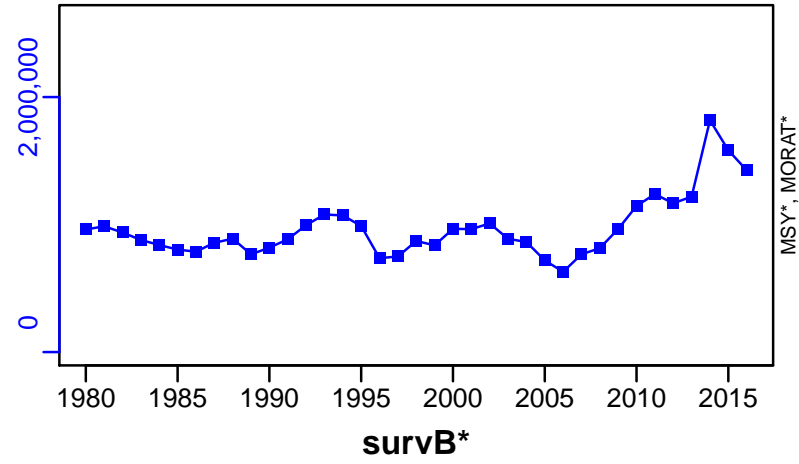
◆ Start Year ◆ End Year * No Data

Mackerel ICES Northeast Atlantic [MACKNEICES]

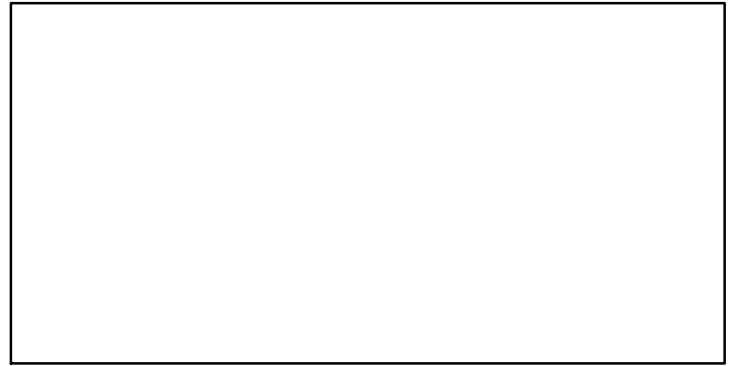


Mackerel ICES Northeast Atlantic [MACKNEICES]

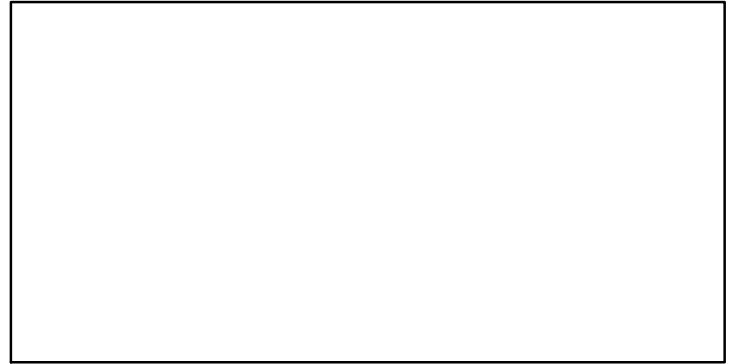
TC-MT, TL*, RecC* (1980-2017-ICESIMP2018)



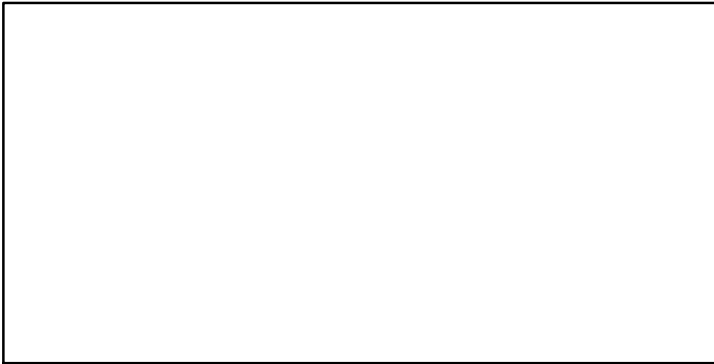
TAC*, Cpair*, Cadv*



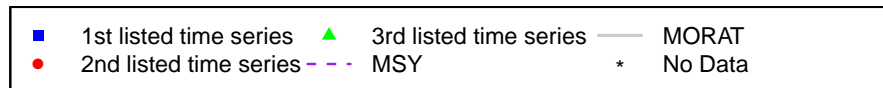
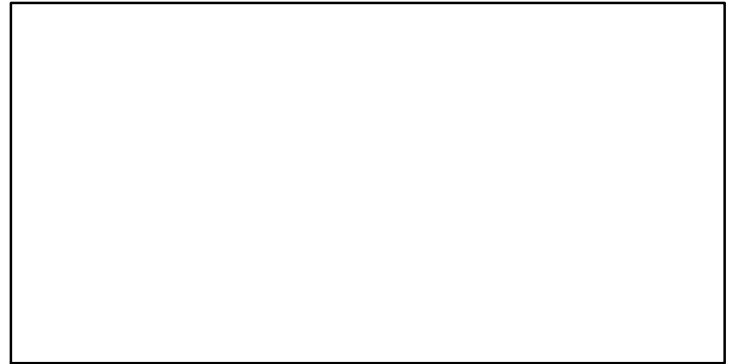
CPUE*



EFFORT*



CdivMSY*



Megrim ICES VIIIc-IXa [MEG8c9a]

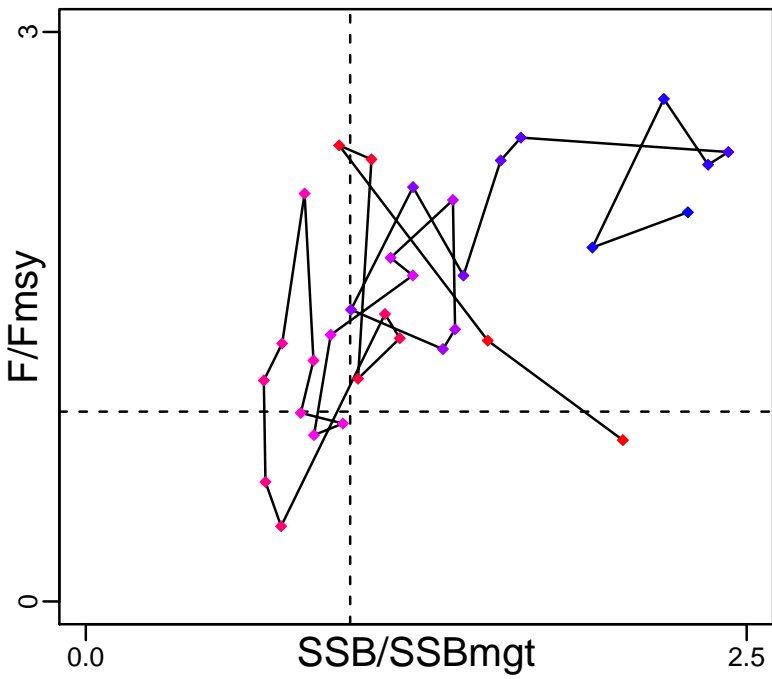
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEG8c9a-1985-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2010, 2013

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

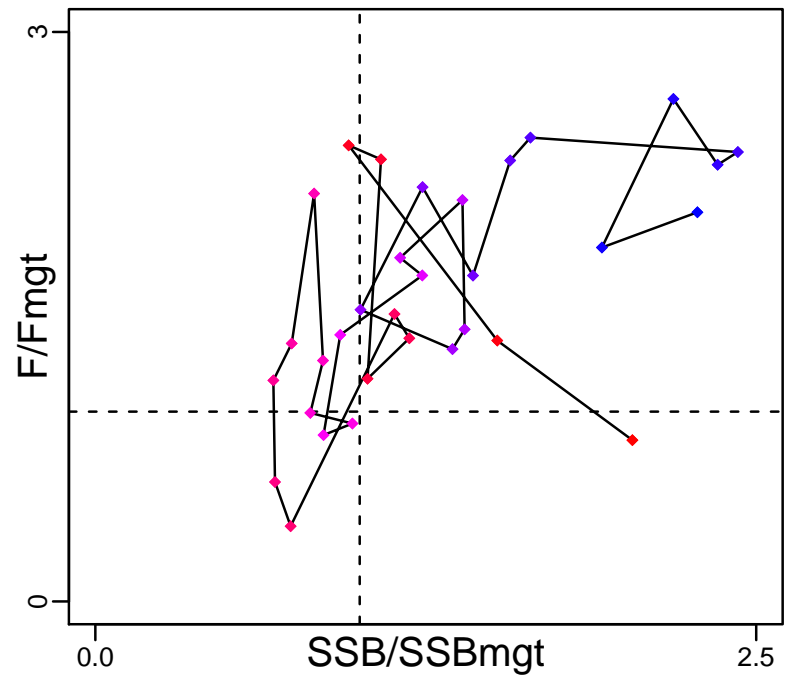
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	2260	Both	-
SSB	SSB-MT	2018	2500	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3,560,000	-	1
F	F-1/yr	2018	0.162	-	2 to 4
ER	ER-calc-ratio	2018	0.127	-	-
TC	TC-MT	2018	288		
TL	TL-MT	2018	247		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.85		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.554		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.85		
ER/ERmgt	-	-	-		

Megrim ICES VIIIc-IXa [MEG8c9a]

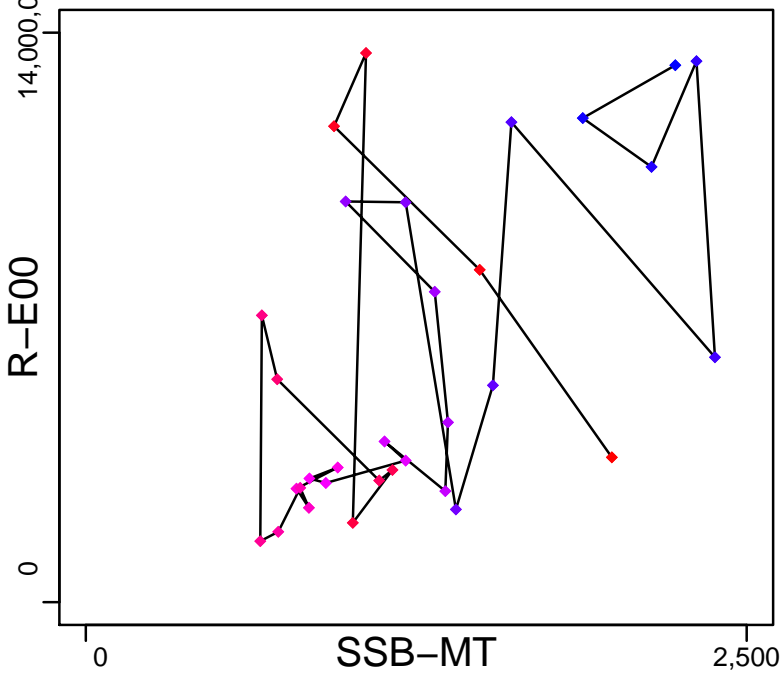
Kobe MSYpref (1985–2018–ICESIMP2018)



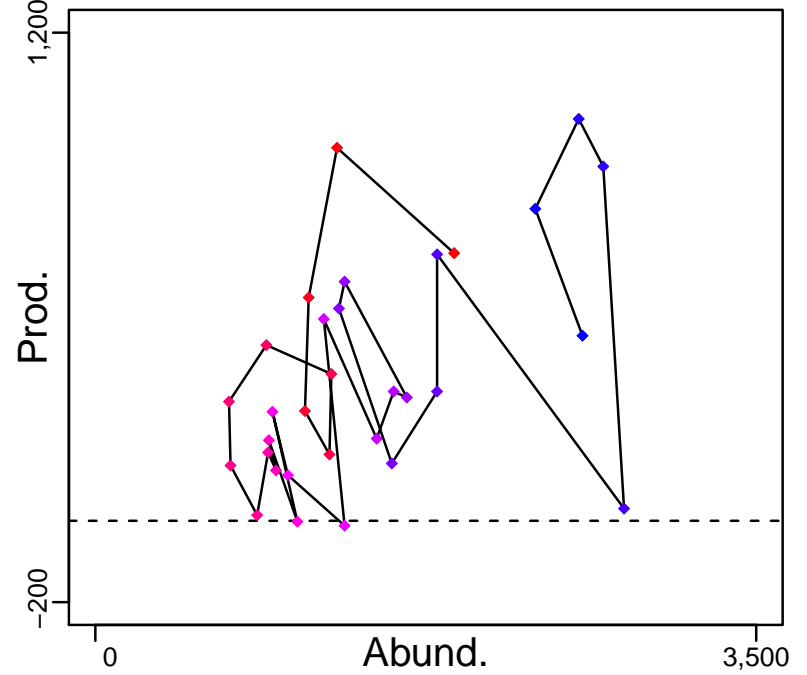
Kobe MGTpref (1985–2018–ICESIMP2018)



Spawner Recruit (1985–2018–ICESIMP2018)



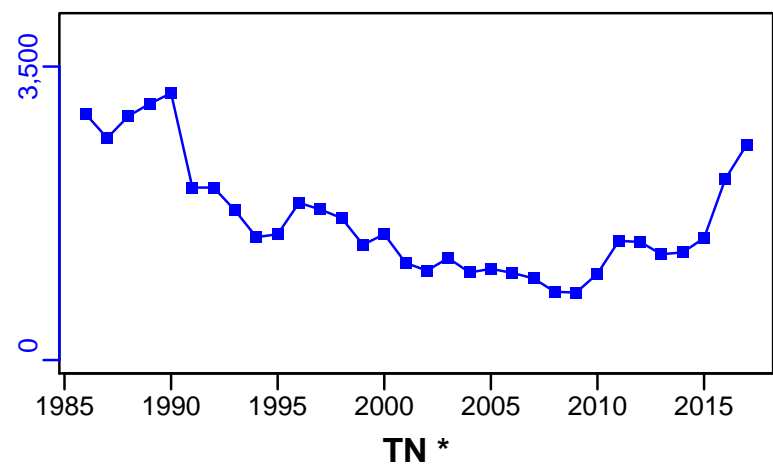
Production (1985–2018–ICESIMP2018)



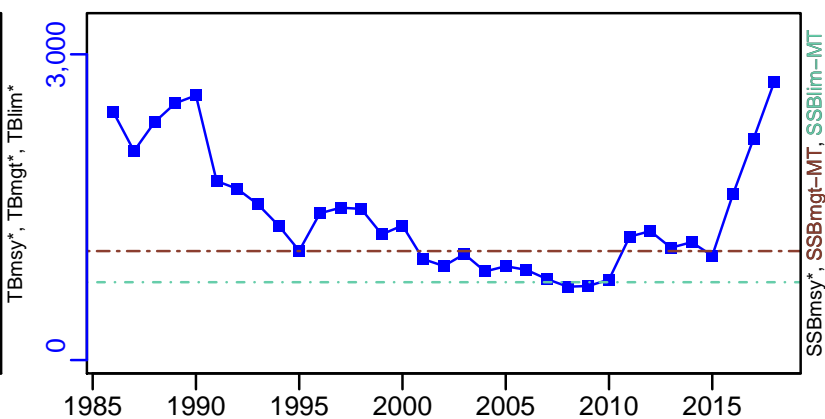
◆ Start Year ◆ End Year * No Data

Megrim ICES VIIIc-IXa [MEG8c9a]

TB-MT (1985–2018–ICESIMP2018)



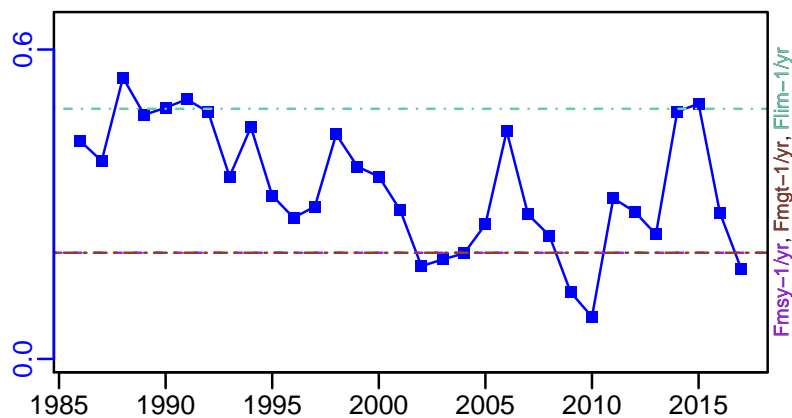
SSB-MT (1985–2018–ICESIMP2018)



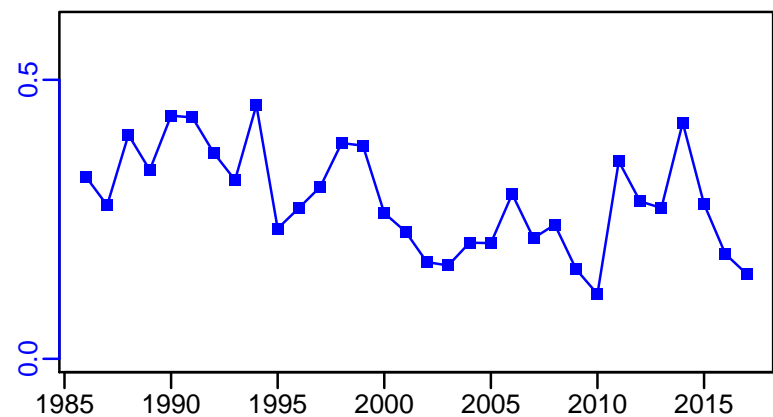
TN *



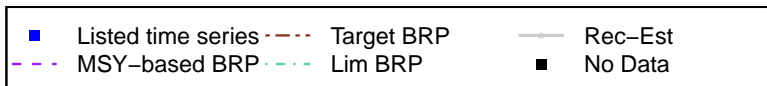
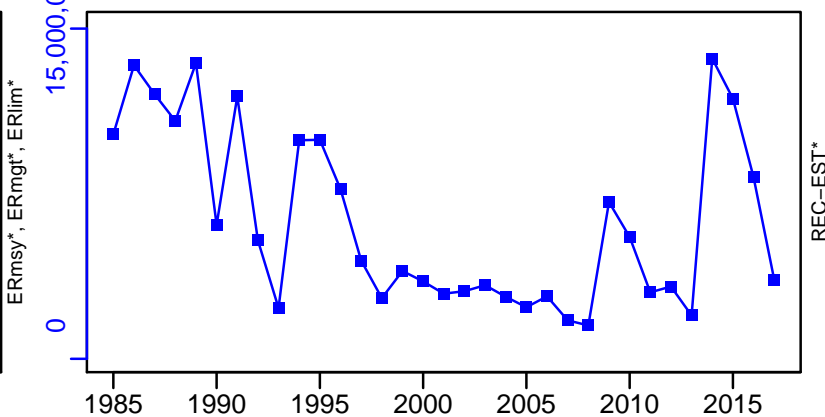
F-1/yr (1985–2018–ICESIMP2018)



ER-calc-ratio (1985–2018–ICESIMP2018)

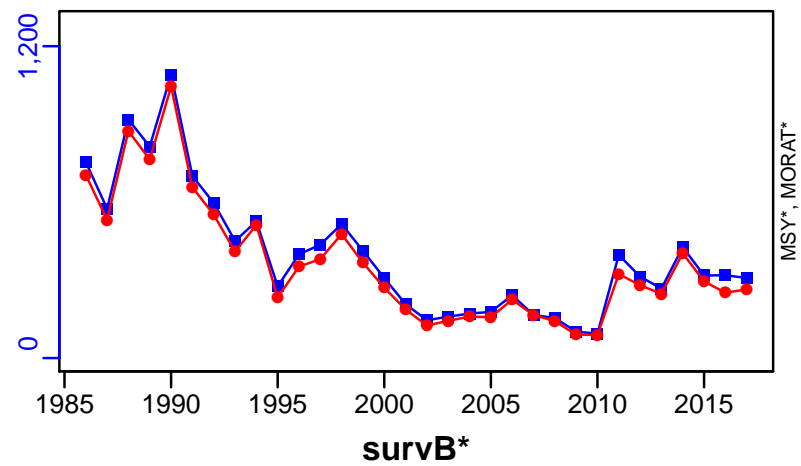


R-E00 (1985–2018–ICESIMP2018)

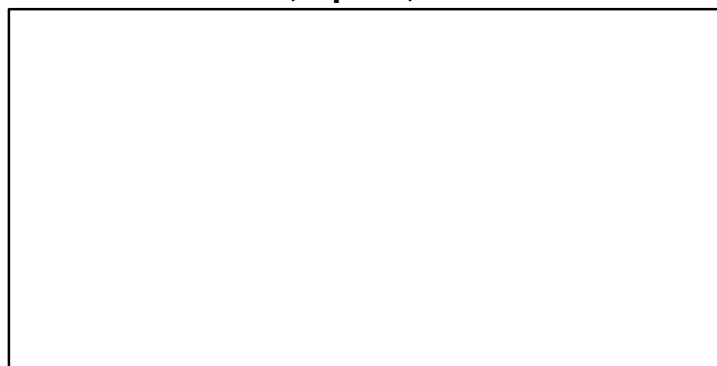


Megrim ICES VIIIc-IXa [MEG8c9a]

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



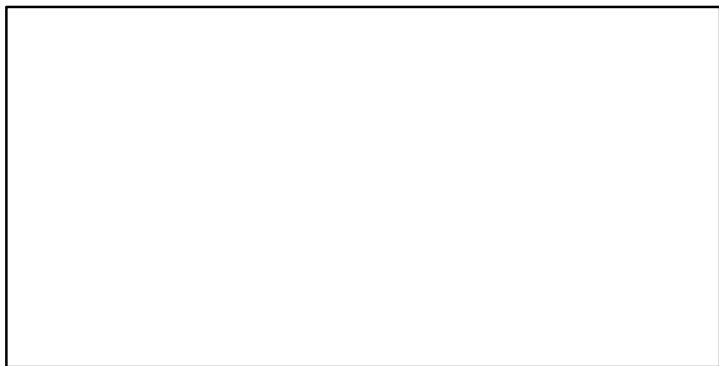
TAC*, Cpair*, Cadv*



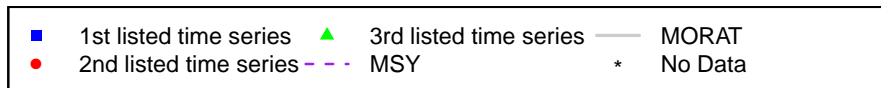
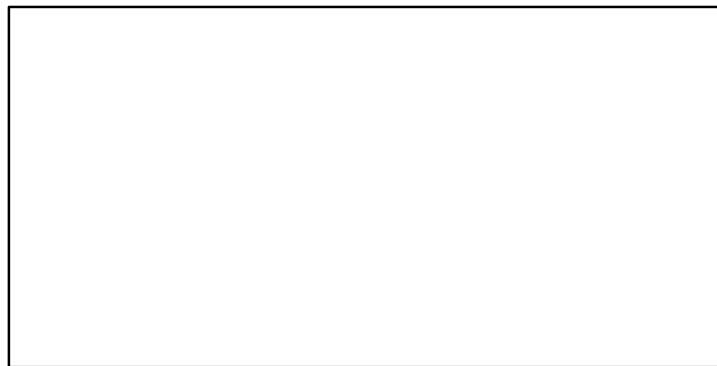
CPUE*



EFFORT*



CdivMSY*



Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

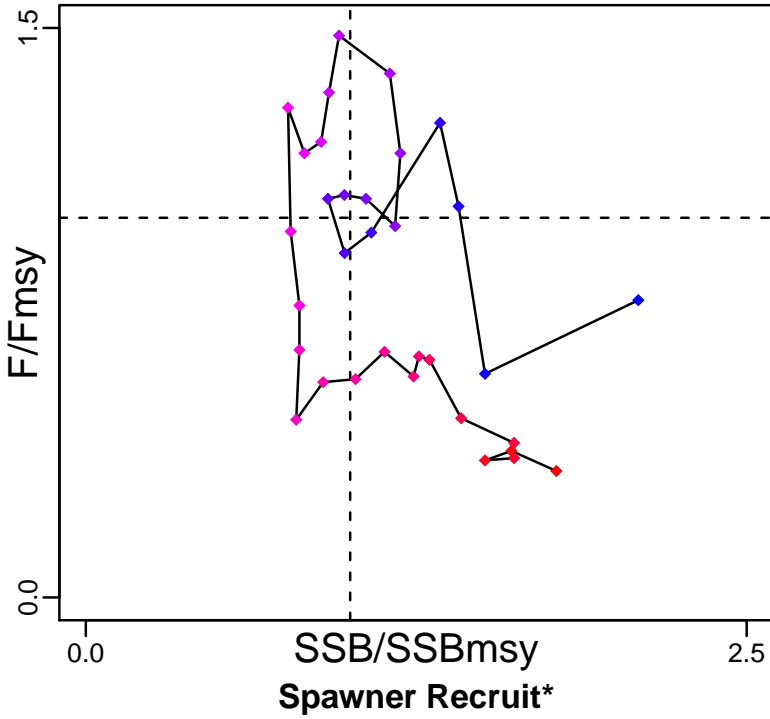
Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPIVa-VIa-1985-2017-ICESIMP2018
Area	IVa and VIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2015, 2016, 2017

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

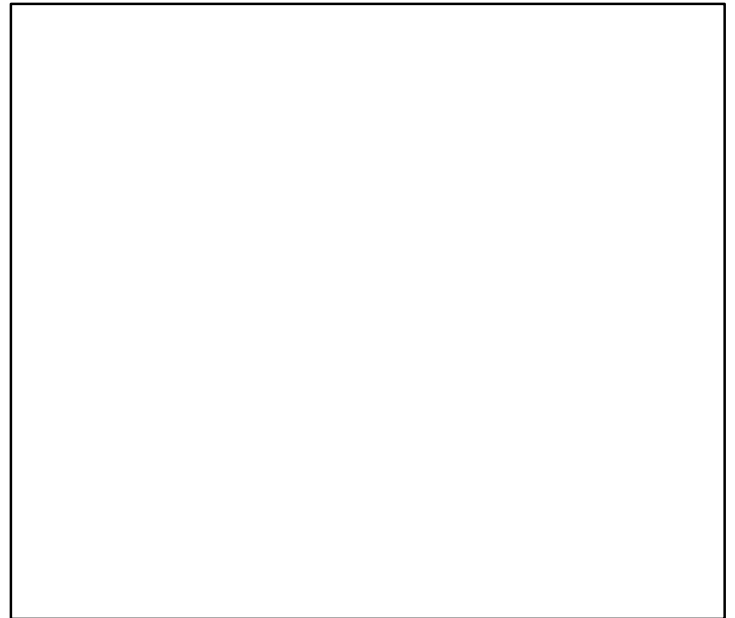
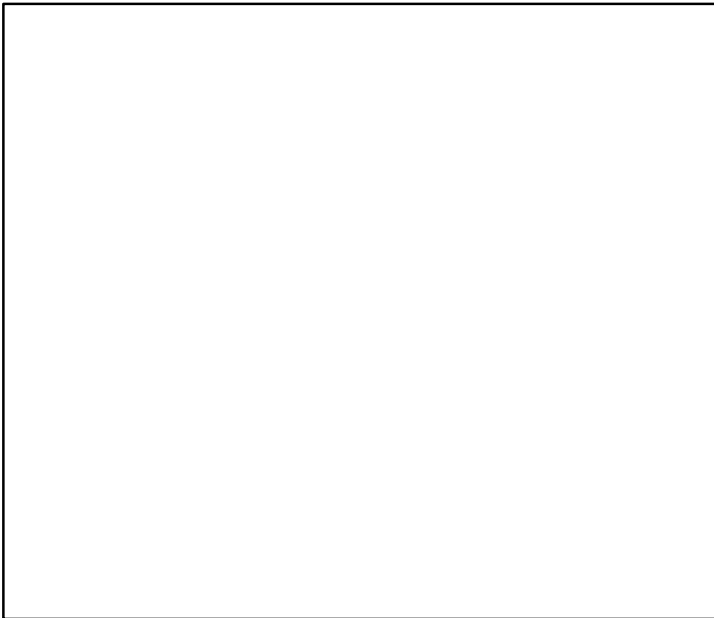
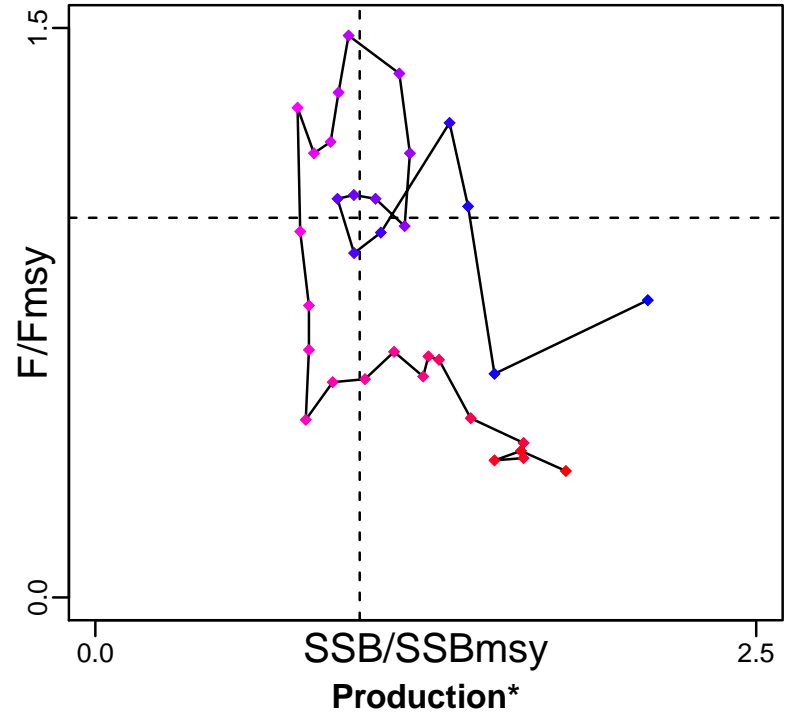
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	2790		
TL	TL-MT	2017	2590		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2017	1.78		
F/Fmsy	FdivFmsy-dimensionless	2017	0.333		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

Kobe MSYpref (1985–2017–ICESIMP2018)



Kobe MGTpref (1985–2017–ICESIMP2018)



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

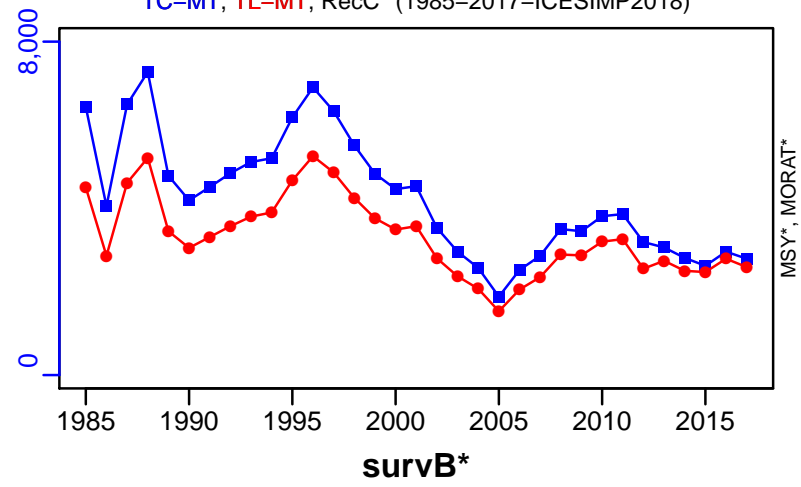


Recruits*

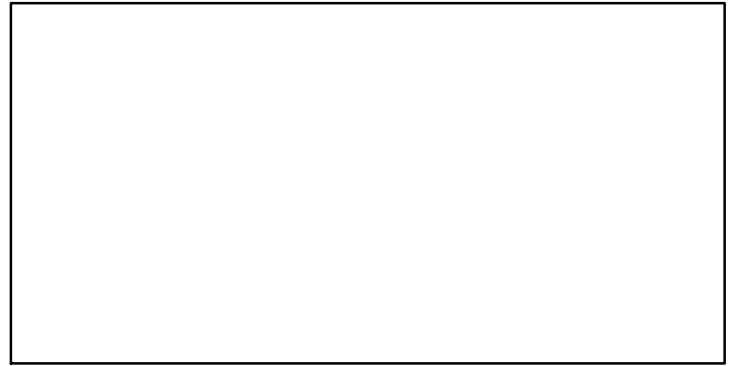


Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

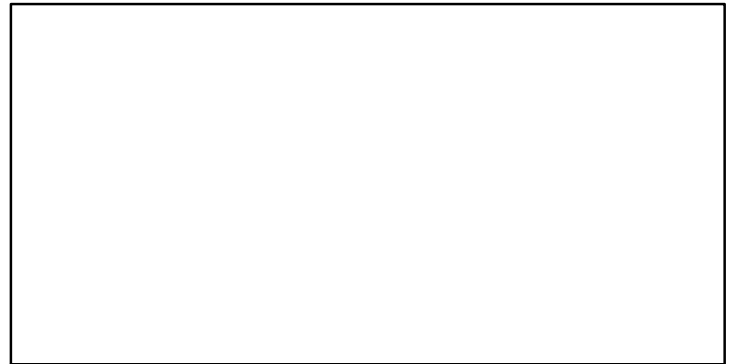
TC-MT, TL-MT, RecC* (1985-2017-ICESIMP2018)



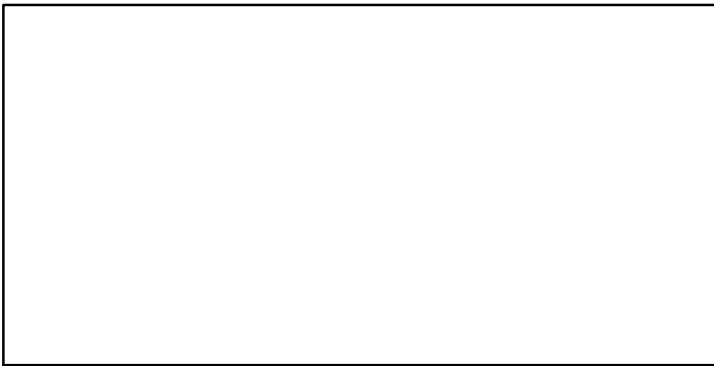
TAC*, Cpair*, Cadv*



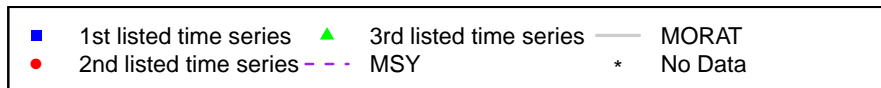
CPUE*



EFFORT*



CdivMSY*



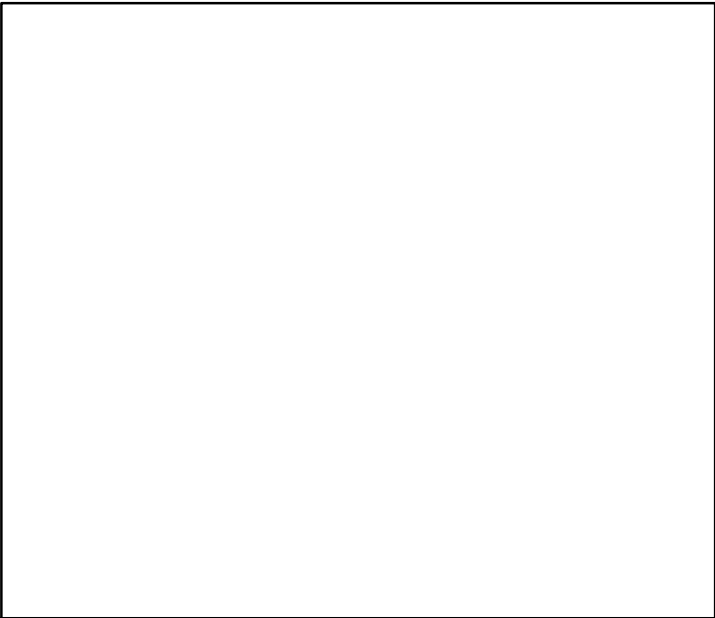
Megrim spp Rockall Bank [MEGSPPVlb]

Metadata	
Scientific Name	Lepidorhombus spp
Current Assess ID	WGCSE-MEGSPPVlb-1991-2017-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2017	405		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2017	0.536		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

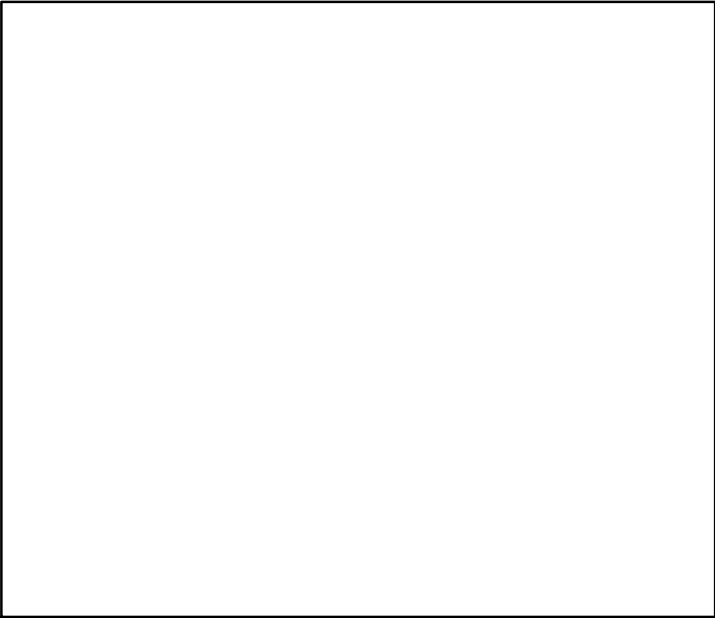
Kobe MSY*



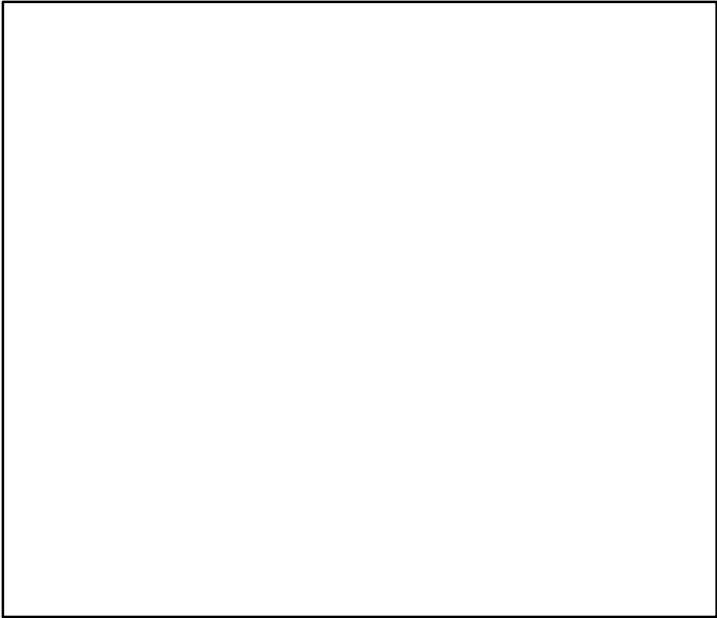
Kobe MGT*



Spawner Recruit*



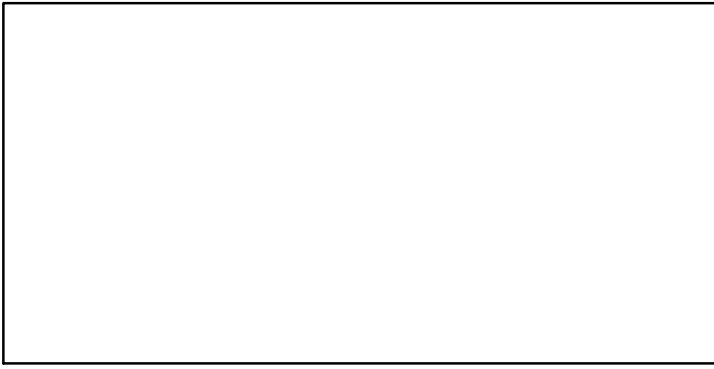
Production*



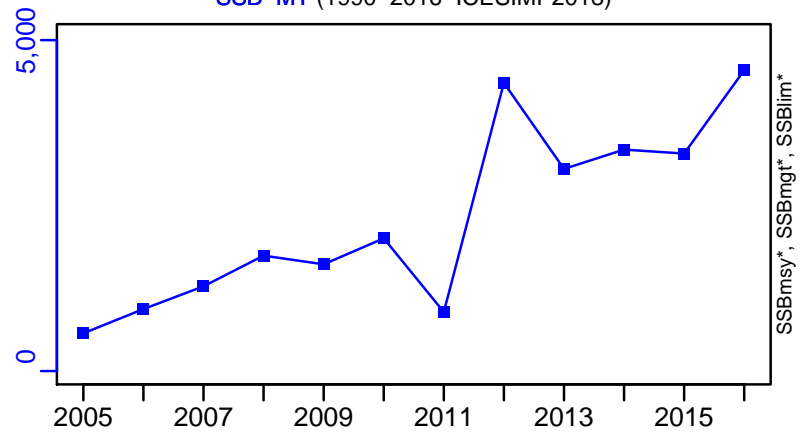
◆ Start Year ◆ End Year * No Data

Megrim spp Rockall Bank [MEGSPPVlb]

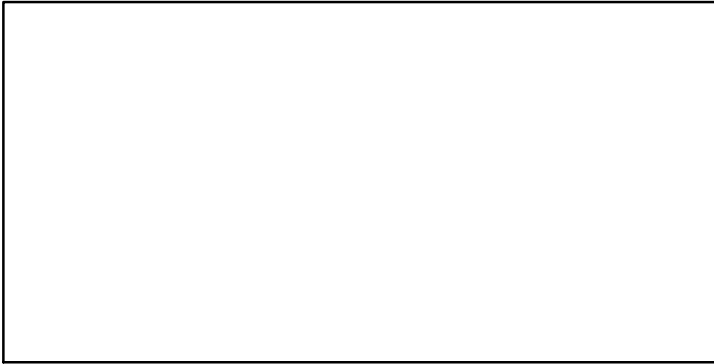
TB*



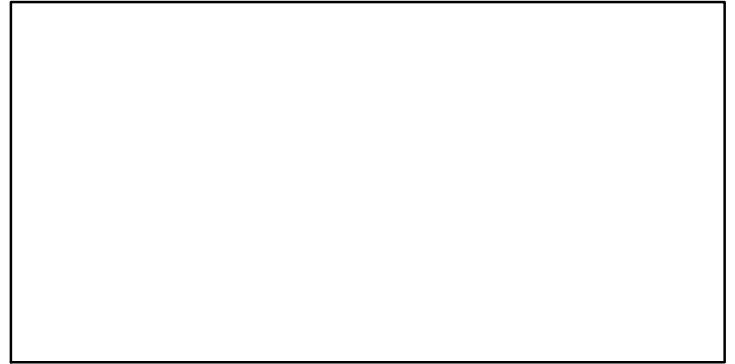
SSB-MT (1990–2016–ICESIMP2018)



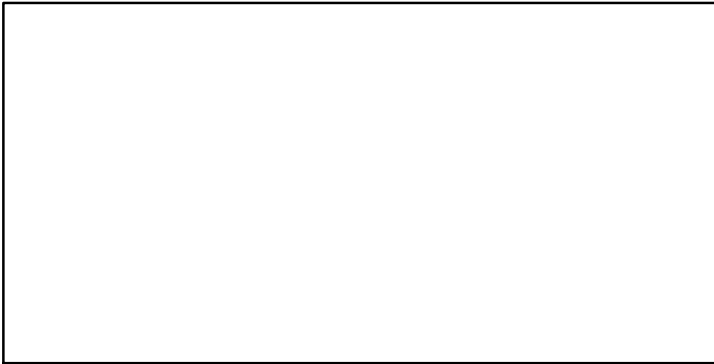
TN *



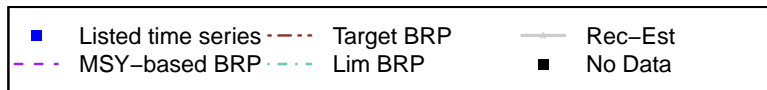
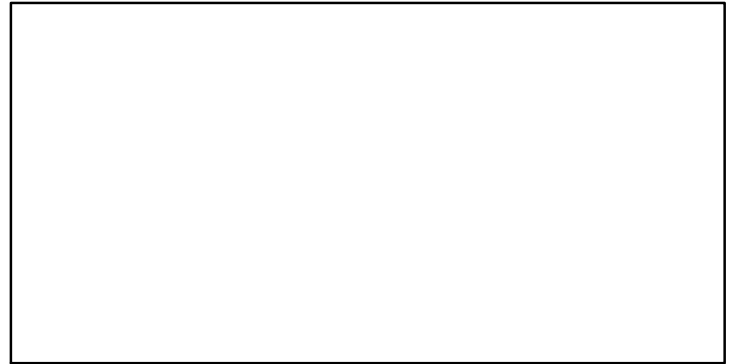
F*



ER*

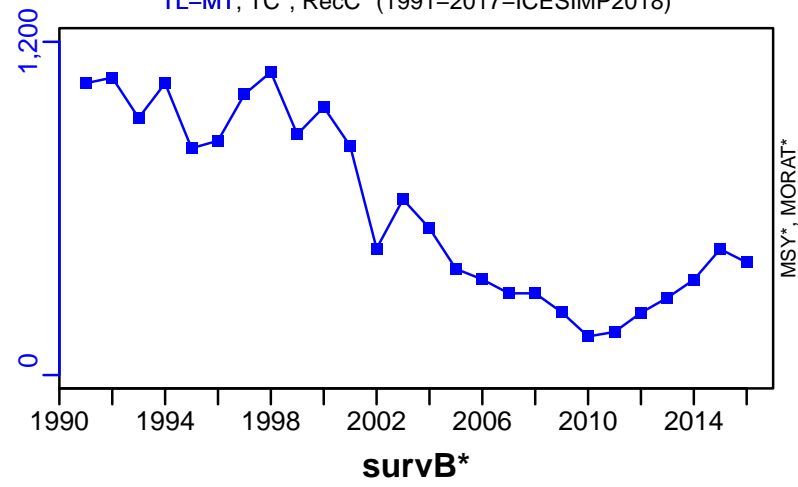


Recruits*

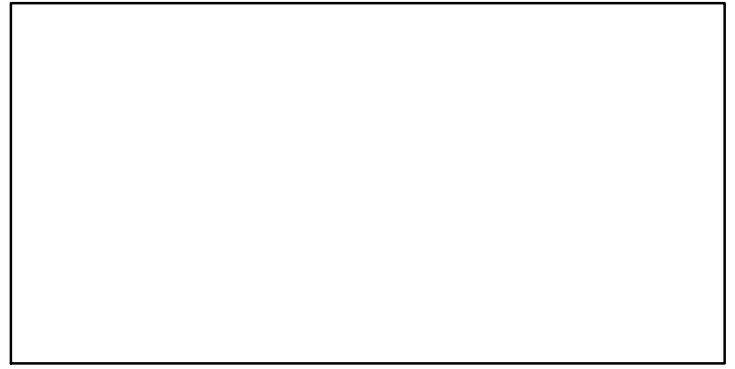


Megrim spp Rockall Bank [MEGSPPVlb]

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



TAC*, Cpair*, Cadv*



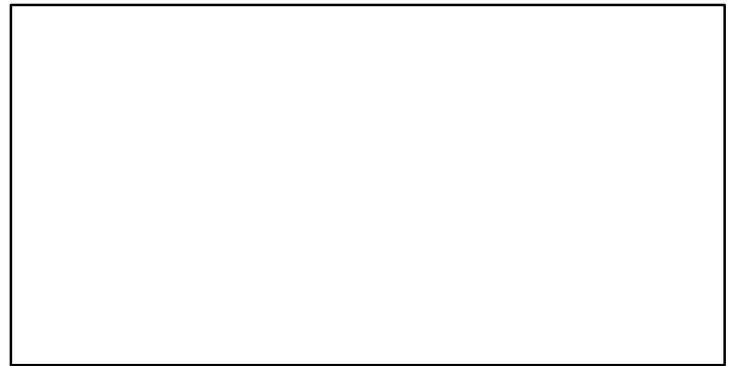
CPUE*



EFFORT*



CdivMSY*



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

Megrim VII-VIIIabd [MEGVII-VIIIabd]

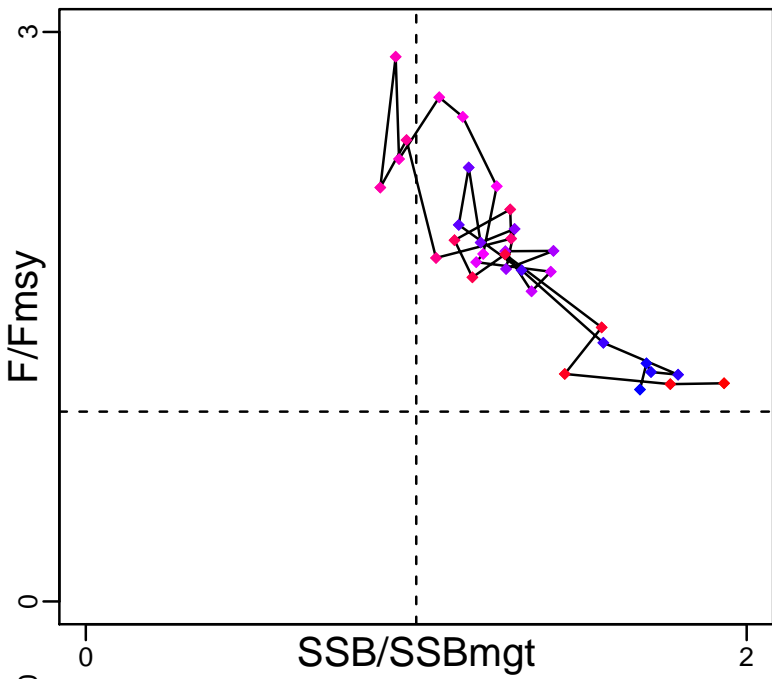
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEGVII-VIIIabd-1983-2018-ICESIMP2018
Area	VII and VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018

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

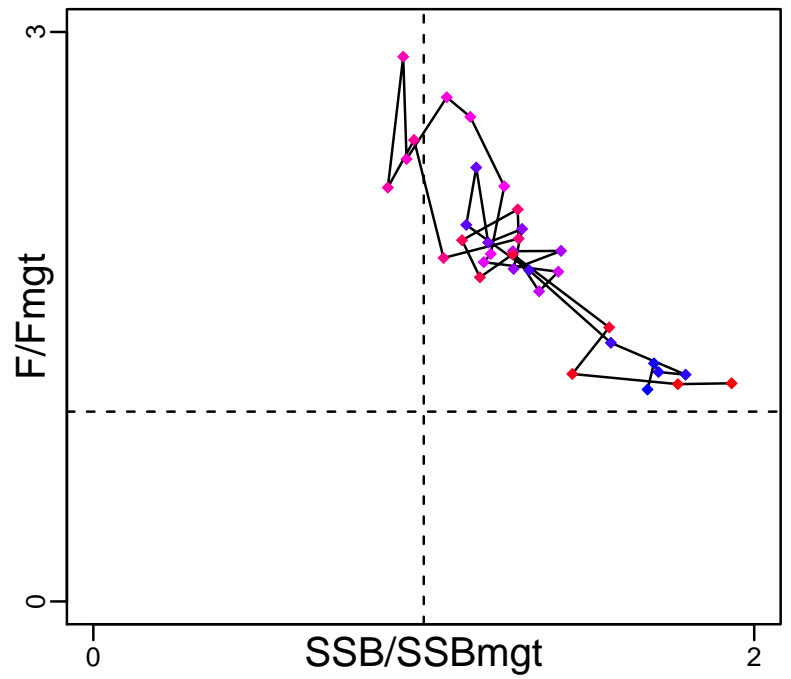
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	140,000	Both	-
SSB	SSB-MT	2018	96,700	Both	-
TN	-	-	-	-	-
R	R-E00	2018	2.28×10^8	-	1
F	F-1/yr	2018	0.22	-	3 to 6
ER	ER-calc-ratio	2018	0.124	-	-
TC	TC-MT	2018	16,000		
TL	TL-MT	2018	13,800		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.149		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.312		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.149		
ER/ERmgt	-	-	-		

Megrim VII–VIIIabd [MEGVII–VIIIabd]

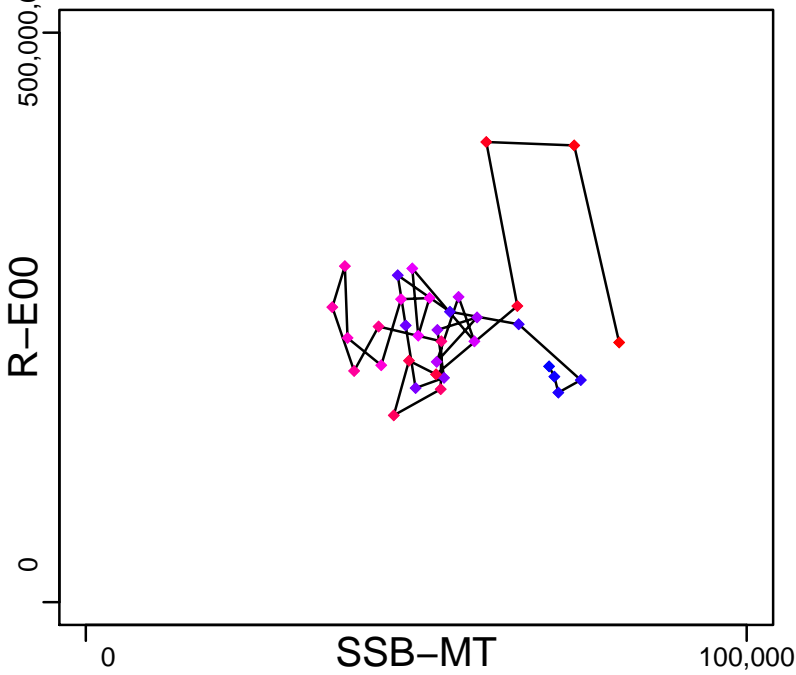
Kobe MSYpref (1983–2018–ICESIMP2018)



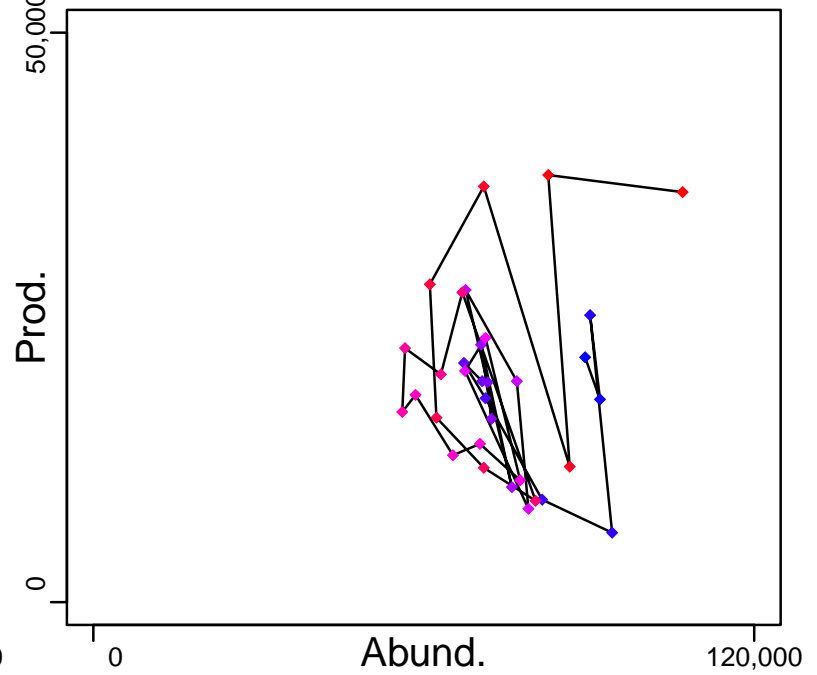
Kobe MGTpref (1983–2018–ICESIMP2018)



Spawner Recruit (1983–2018–ICESIMP2018)



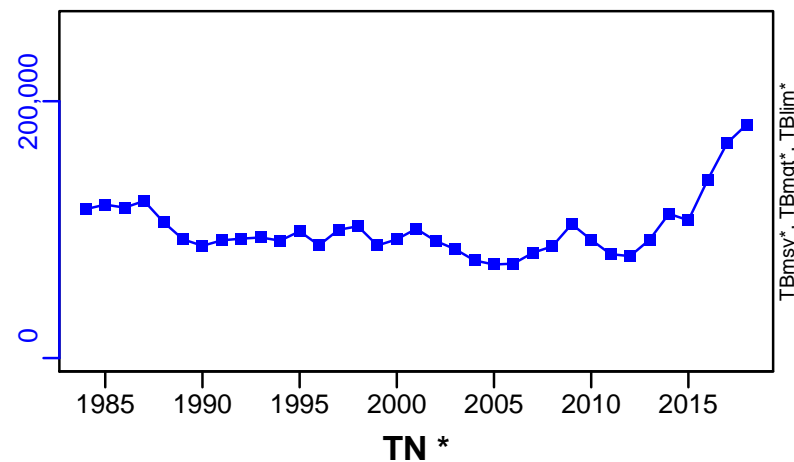
Production (1983–2018–ICESIMP2018)



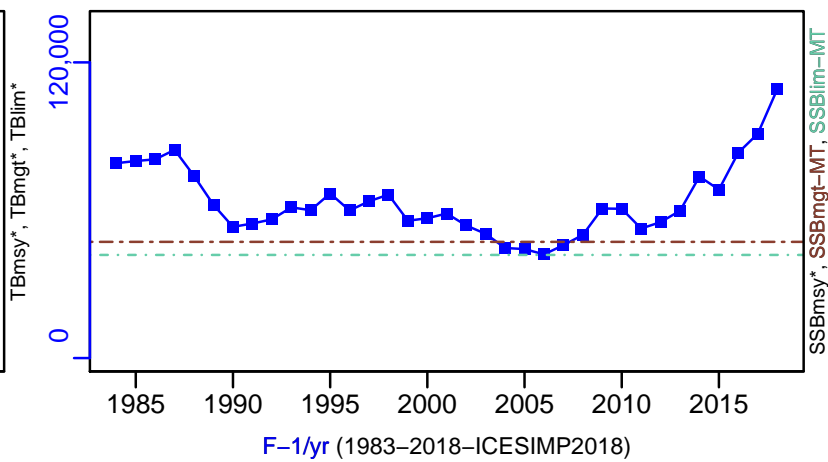
◆ Start Year ◆ End Year * No Data

Megrim VII-VIIIabd [MEGVII-VIIIabd]

TB-MT (1983-2018-ICESIMP2018)



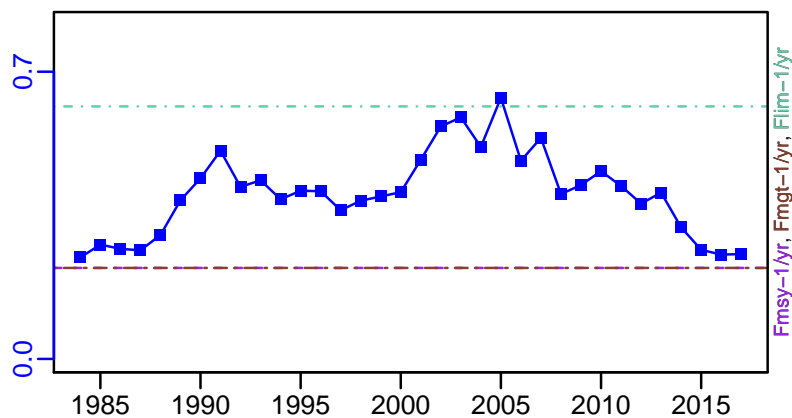
SSB-MT (1983-2018-ICESIMP2018)



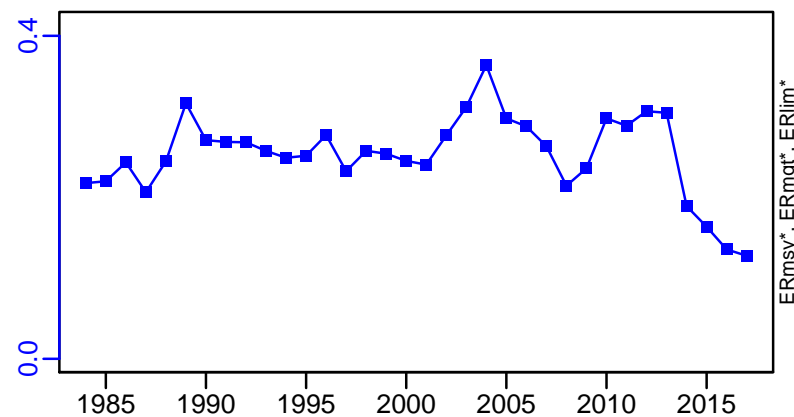
TN *



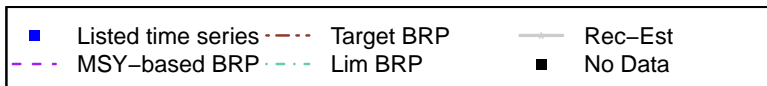
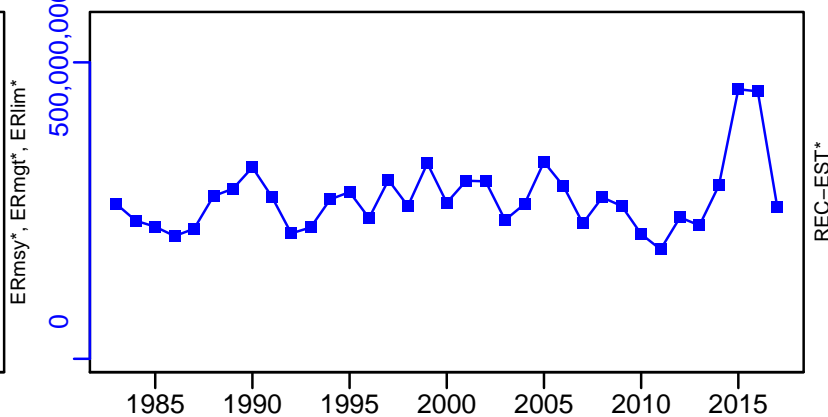
F-1/yr (1983-2018-ICESIMP2018)



ER-calc-ratio (1983-2018-ICESIMP2018)

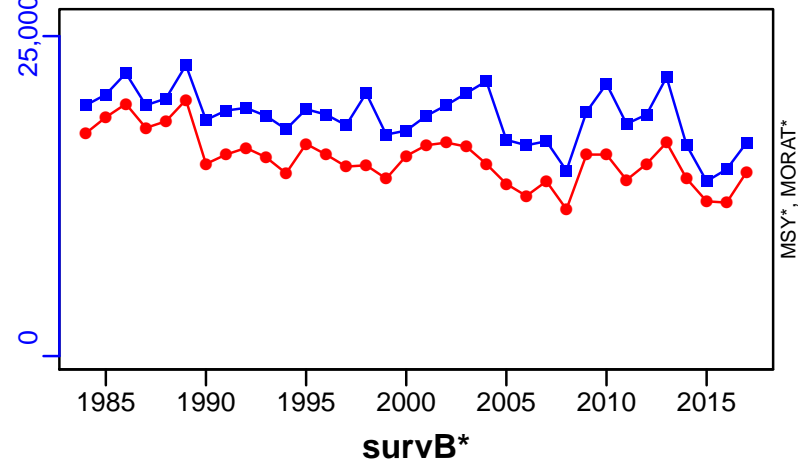


R-E00 (1983-2018-ICESIMP2018)

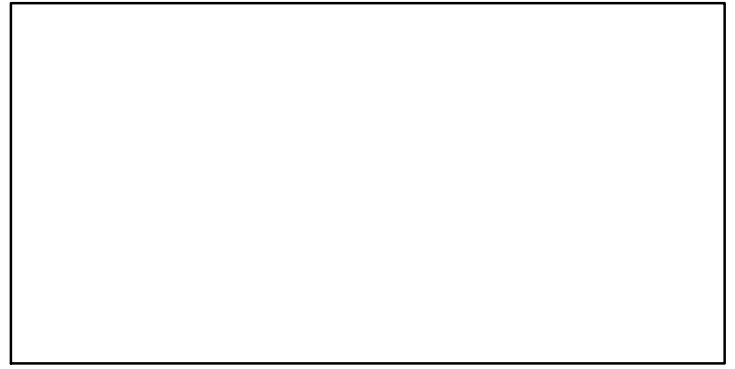


Megrim VII–VIIIabd [MEGVII–VIIIabd]

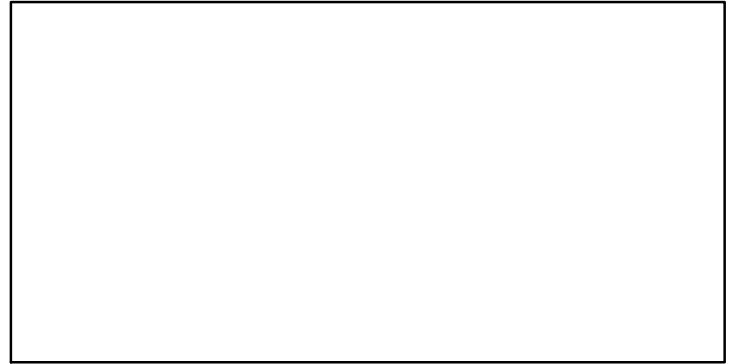
TC–MT, TL–MT, RecC* (1983–2018–ICESIMP2018)



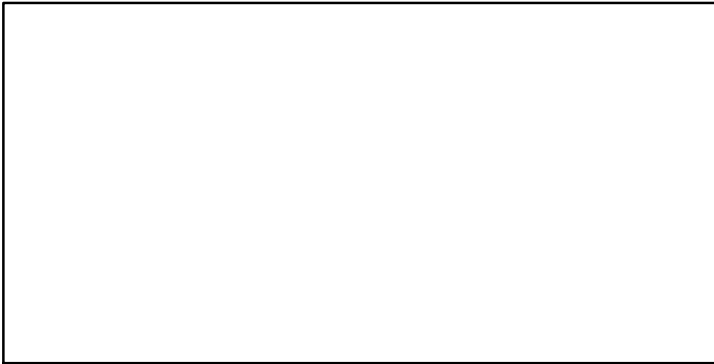
TAC*, Cpair*, Cadv*



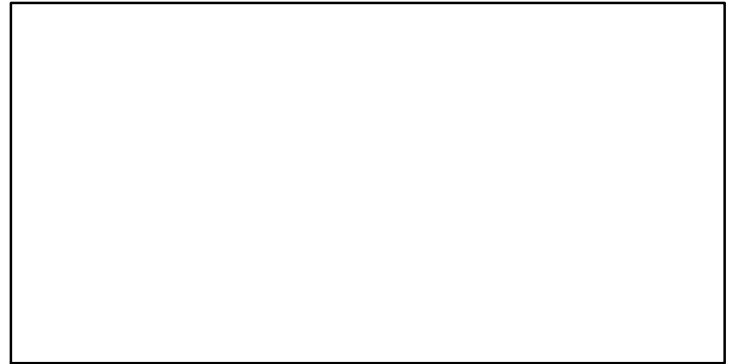
CPUE*



EFFORT*



CdivMSY*



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

Norway lobster Noup (FU 10) [NEPHFU10]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU10-1994-2017-ICESIMP2018
Area	Noup (FU 10)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	9		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

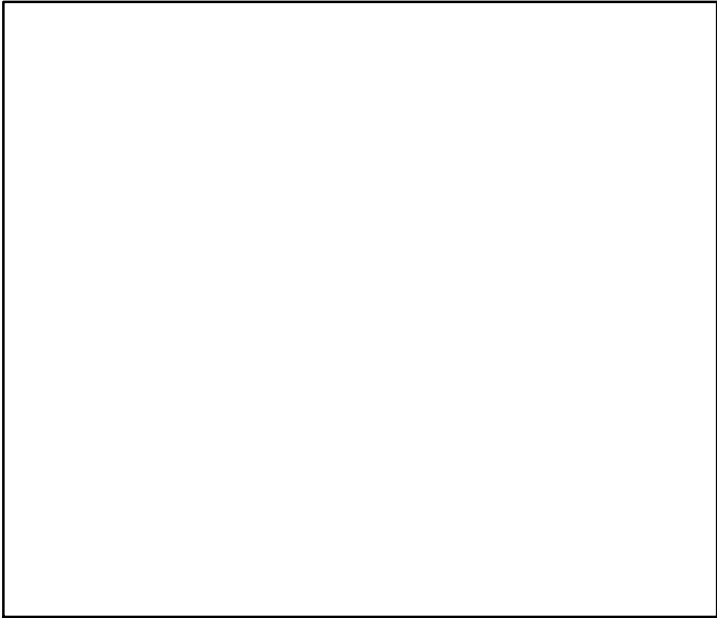
Kobe MSY*



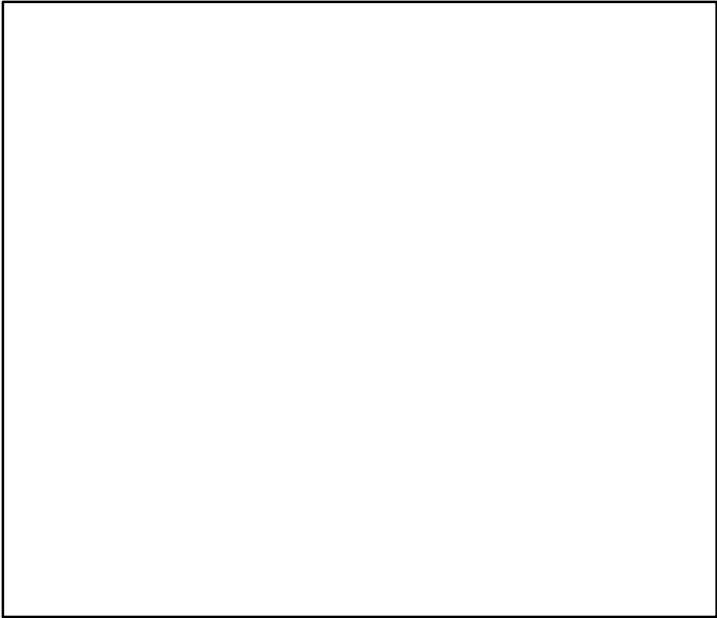
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

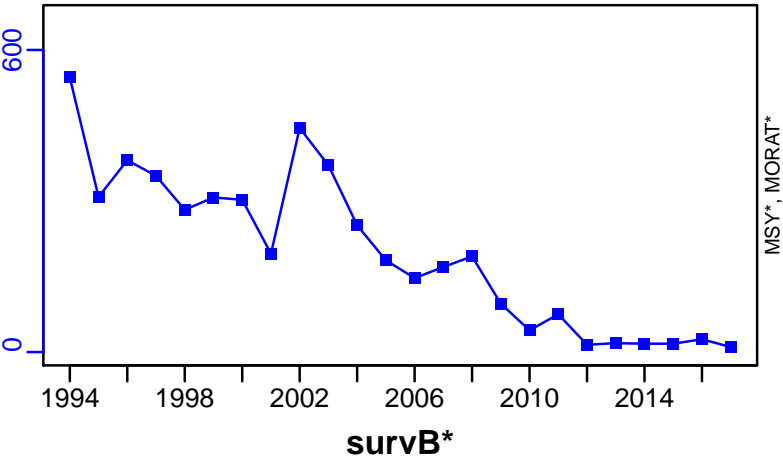


Recruits*



Norway lobster Noup (FU 10) [NEPHFU10]

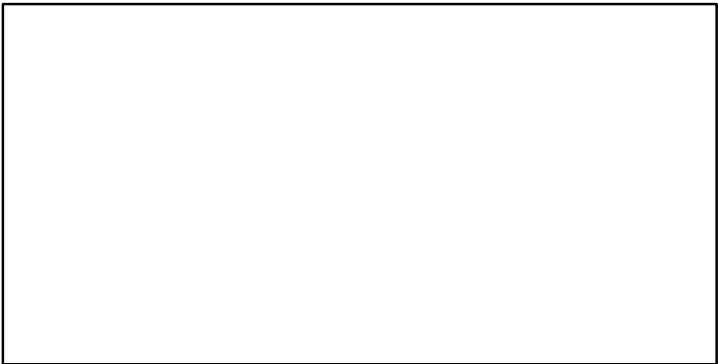
TL-MT, TC*, RecC* (1994–2017–ICESIMP2018)



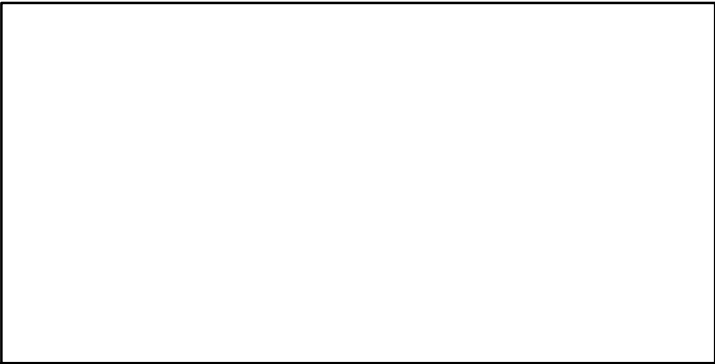
TAC*, Cpair*, Cadv*



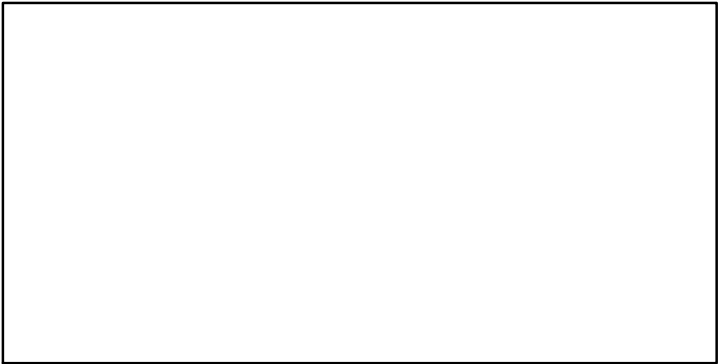
CPUE*



EFFORT*



CdivMSY*



Norway lobster North Minch (FU 11) [NEPHFU11]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU11-1981-2016-ICESIMP2018
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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.107	-	-
TC	TC-MT	2016	3800		
TL	TL-MT	2016	3530		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.991		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

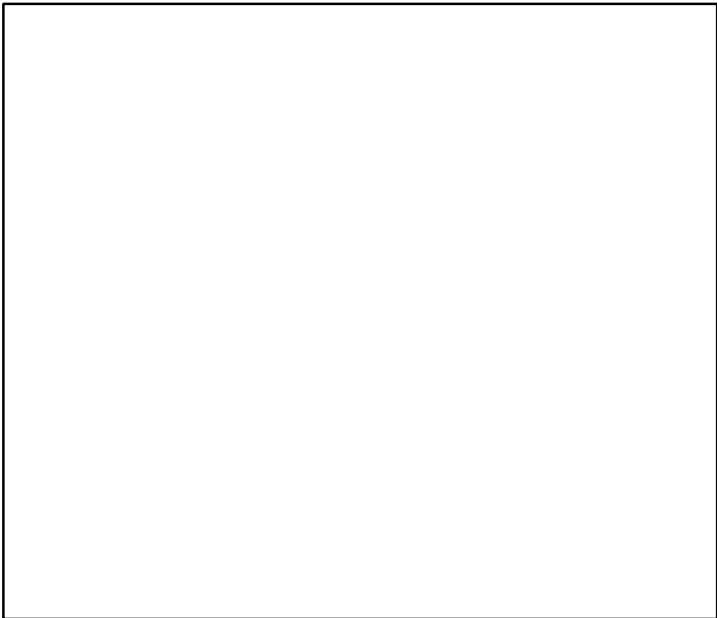
Kobe MSY*



Kobe MGT*



Spawner Recruit*



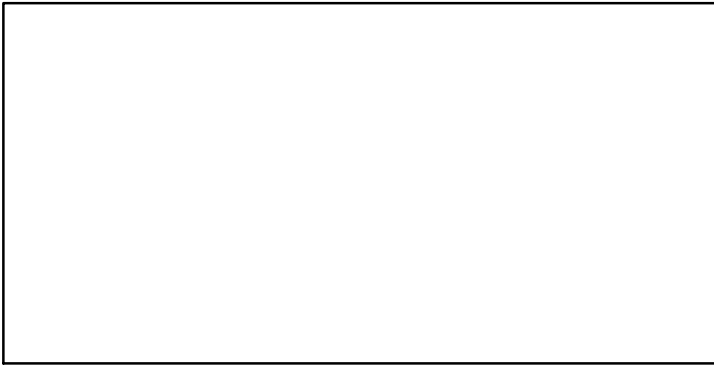
Production*



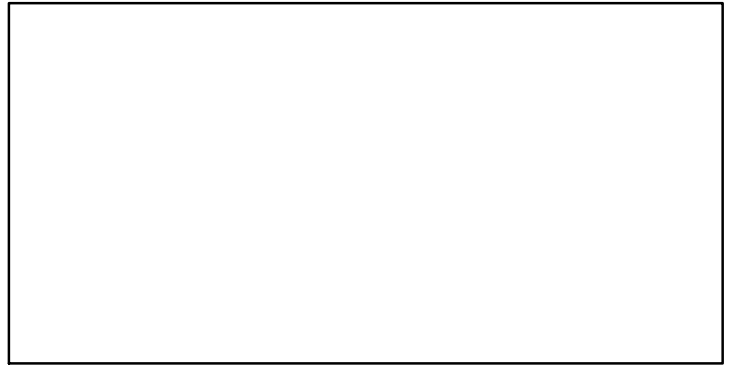
◆ Start Year ◆ End Year * No Data

Norway lobster North Minch (FU 11) [NEPHFU11]

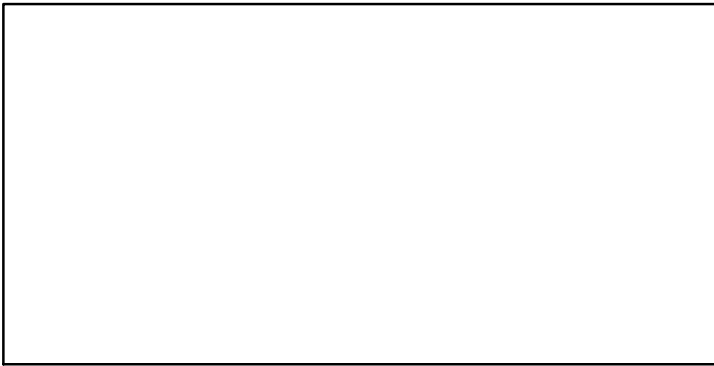
TB*



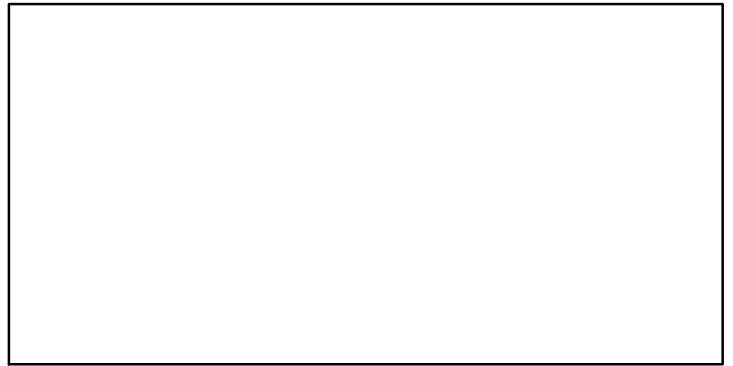
SSB*



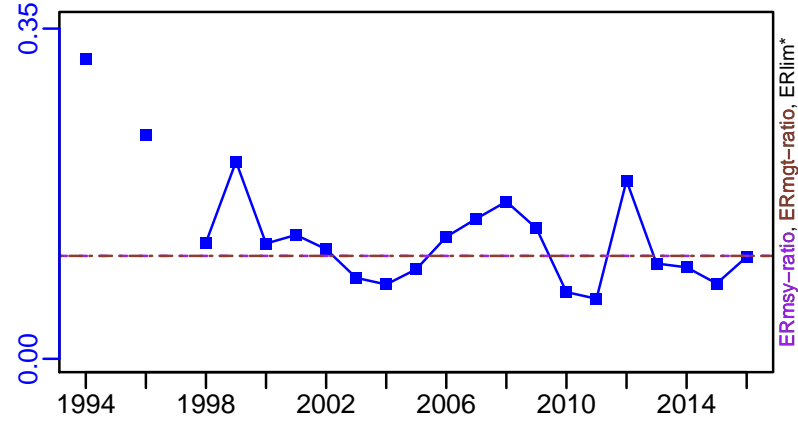
TN *



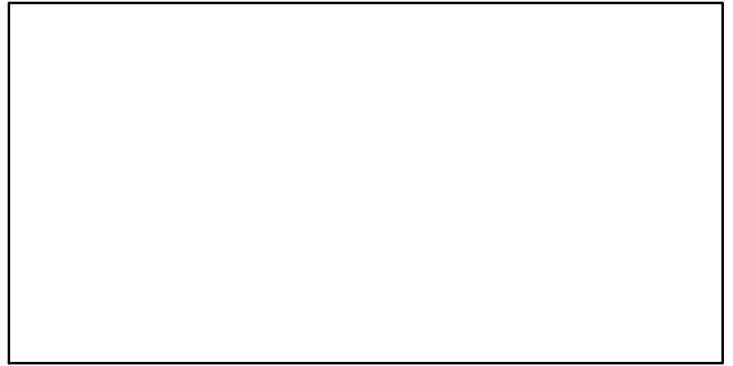
F*



ER-ratio (1981–2016–ICESIMP2018)

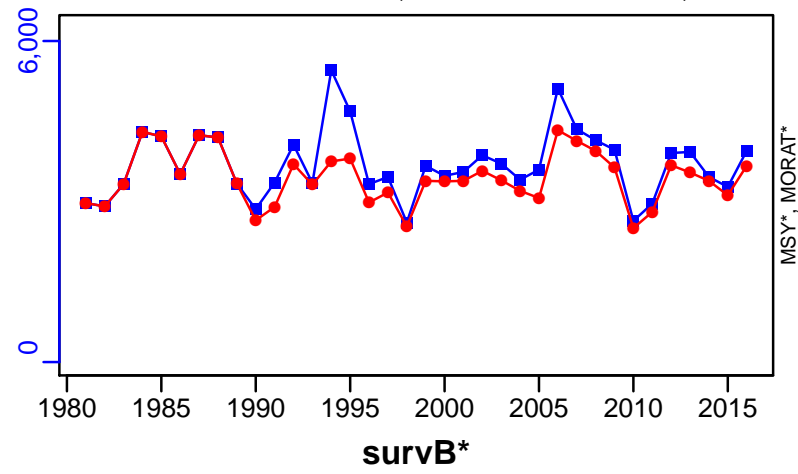


Recruits*

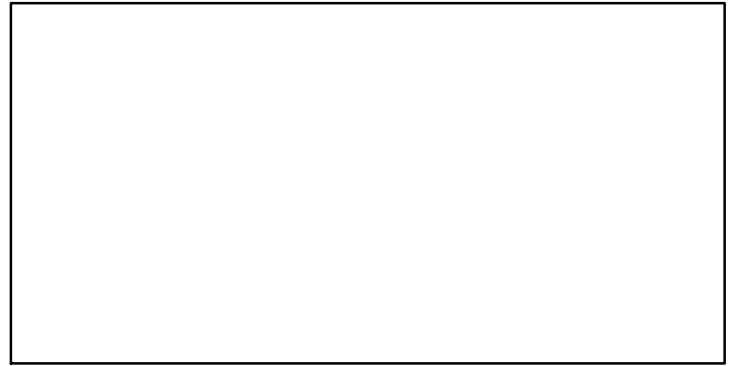


Norway lobster North Minch (FU 11) [NEPHFU11]

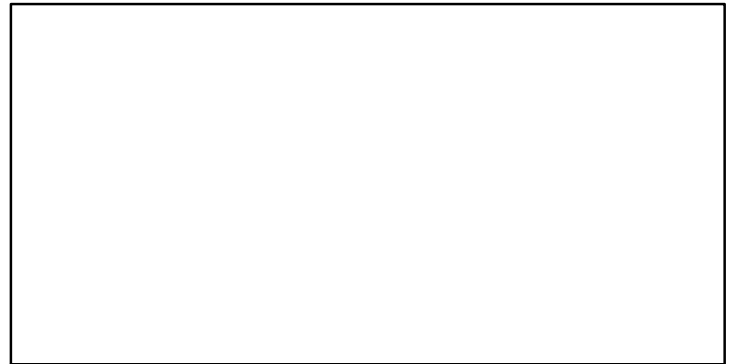
TC-MT, TL-MT, RecC* (1981–2016–ICESIMP2018)



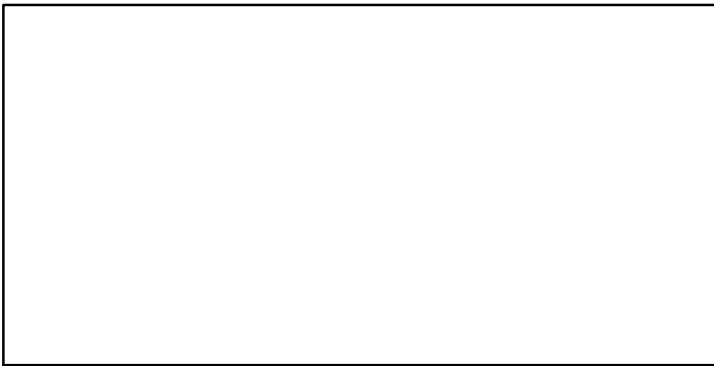
TAC*, Cpair*, Cadv*



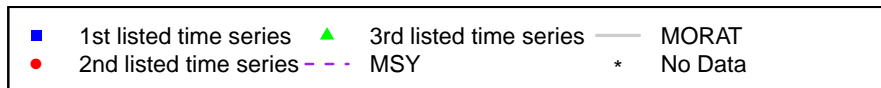
CPUE*



EFFORT*



CdivMSY*



Norway lobster South Minch (FU 12) [NEPHFU12]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU12-1981-2016-ICESIMP2018
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	2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.095	-	-
TC	TC-MT	2016	4770		
TL	TL-MT	2016	4400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.812		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

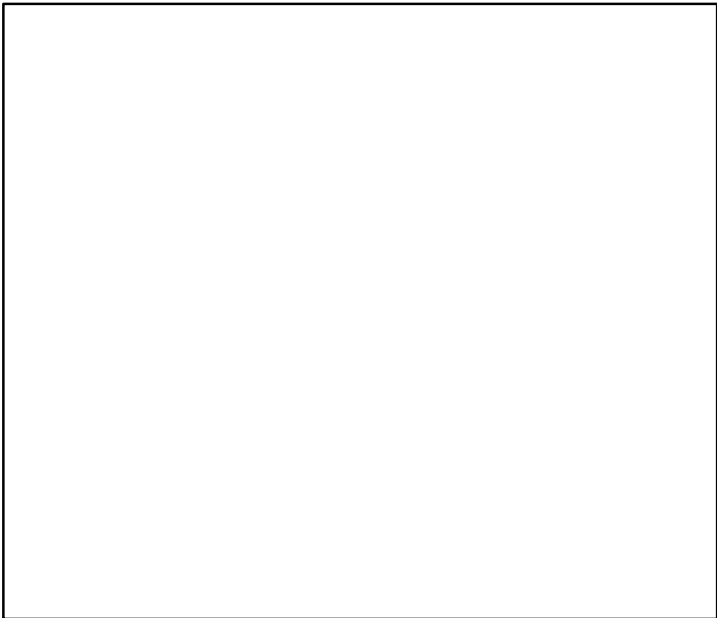
Kobe MSY*



Kobe MGT*



Spawner Recruit*



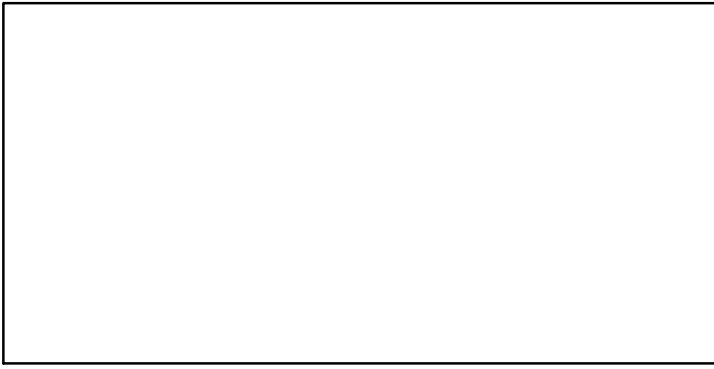
Production*



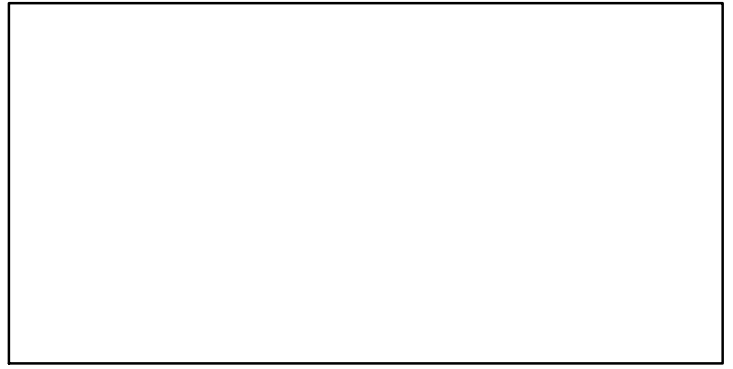
◆ Start Year ◆ End Year * No Data

Norway lobster South Minch (FU 12) [NEPHFU12]

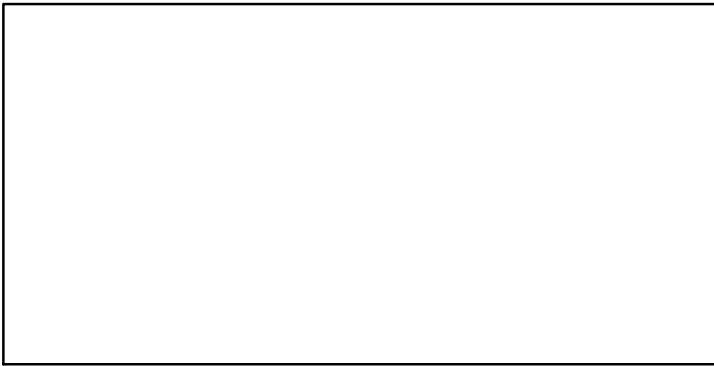
TB*



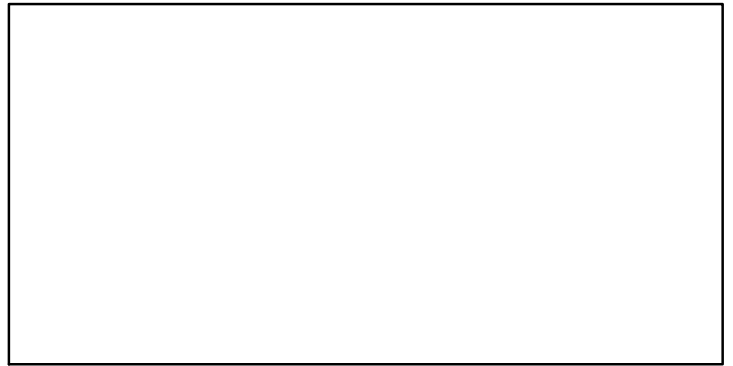
SSB*



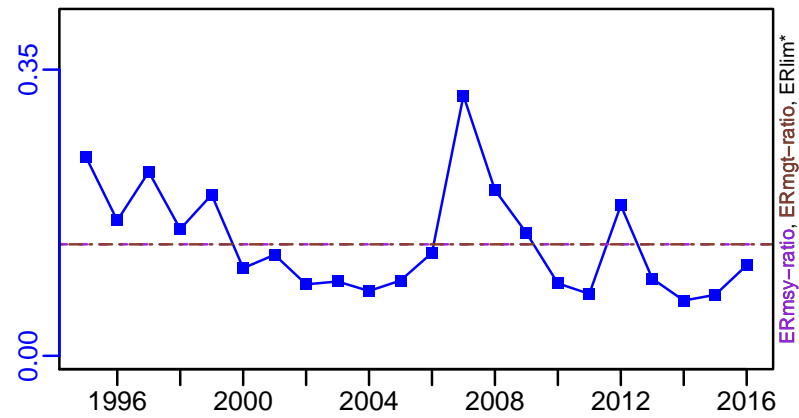
TN *



F*



ER-ratio (1981–2016–ICESIMP2018)



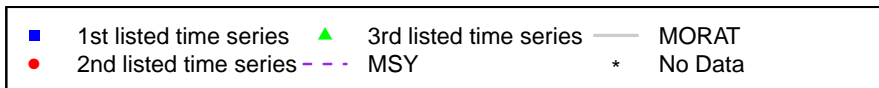
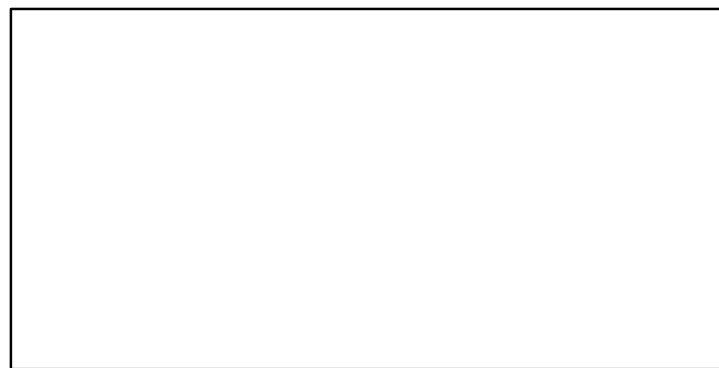
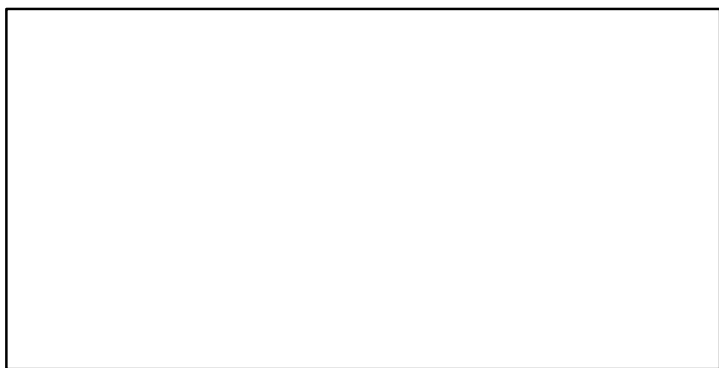
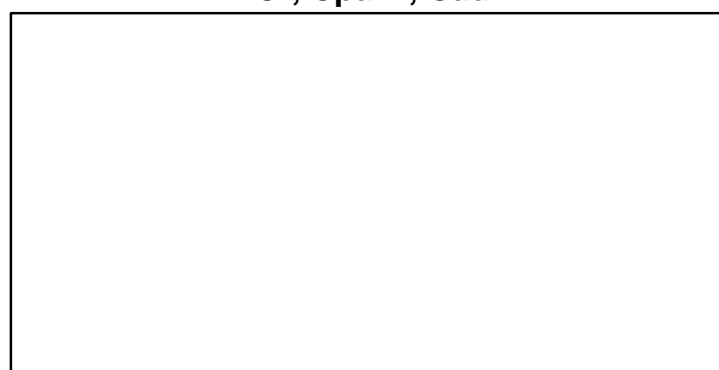
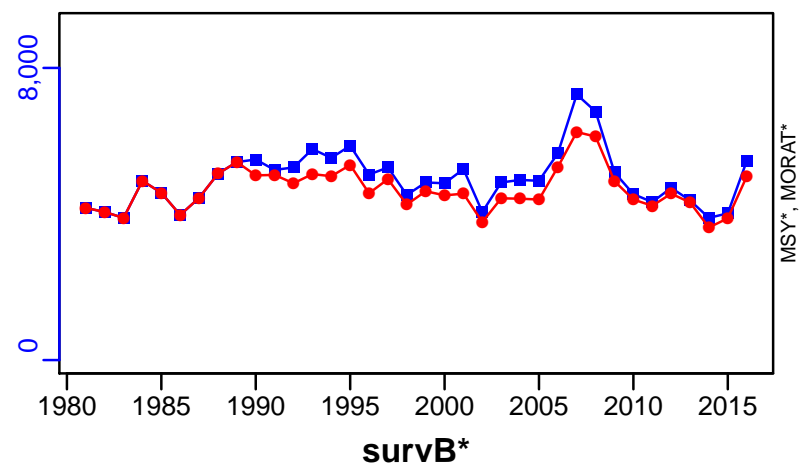
Recruits*



Norway lobster South Minch (FU 12) [NEPHFU12]

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

TAC*, Cpair*, Cadv*



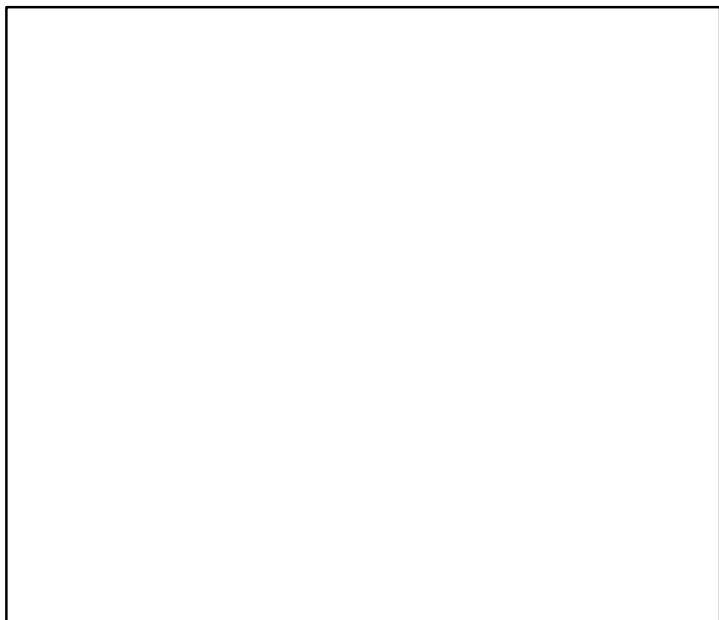
Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU13-1981-2016-ICESIMP2018
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

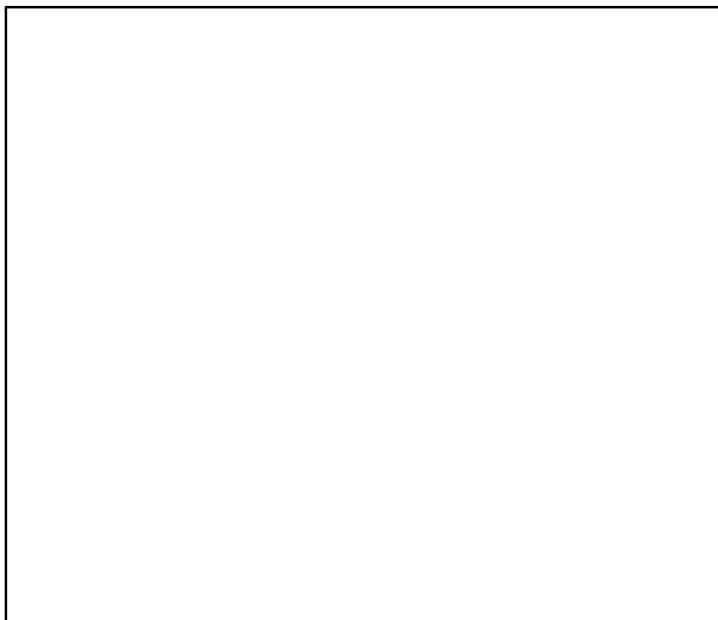
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.151
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.151
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.176	-	-
TC	TC-MT	2016	7080		
TL	TL-MT	2016	6450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.164		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

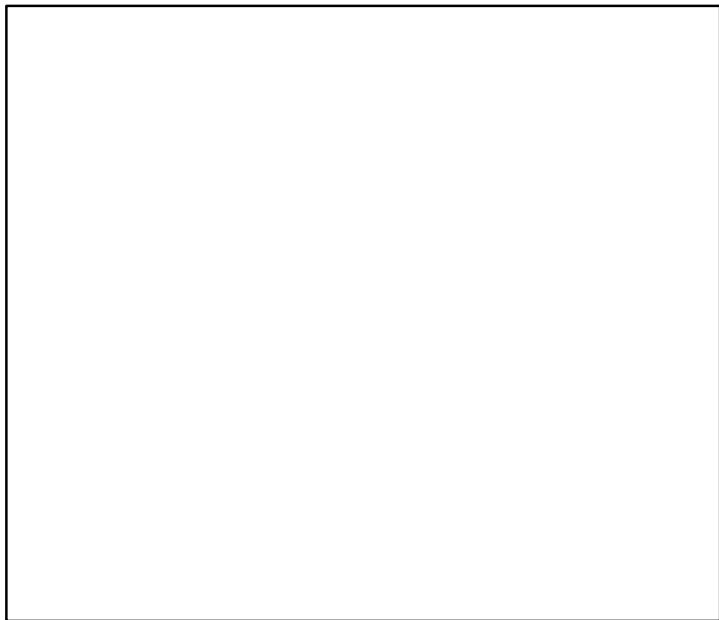
Kobe MSY*



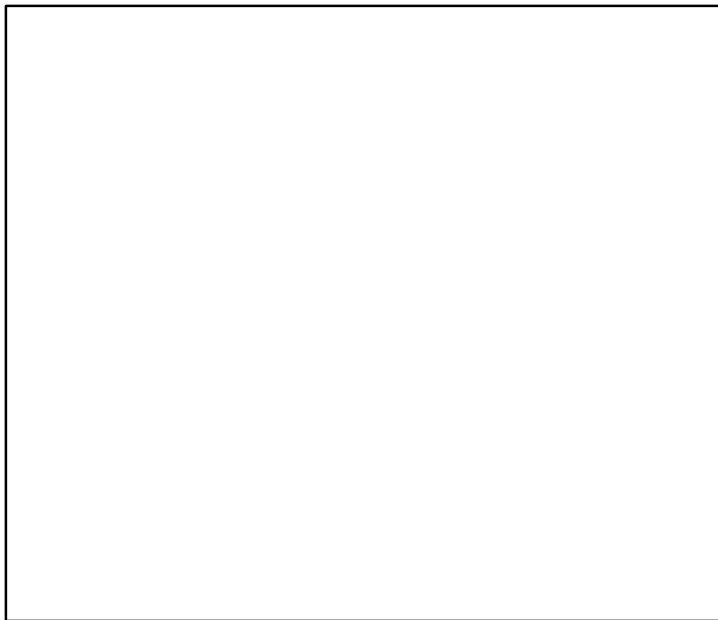
Kobe MGT*



Spawner Recruit*



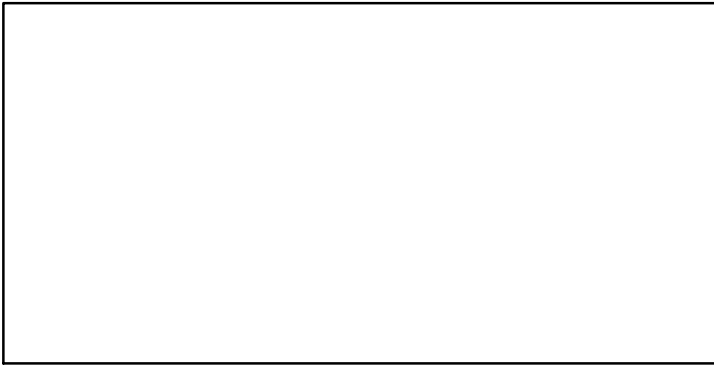
Production*



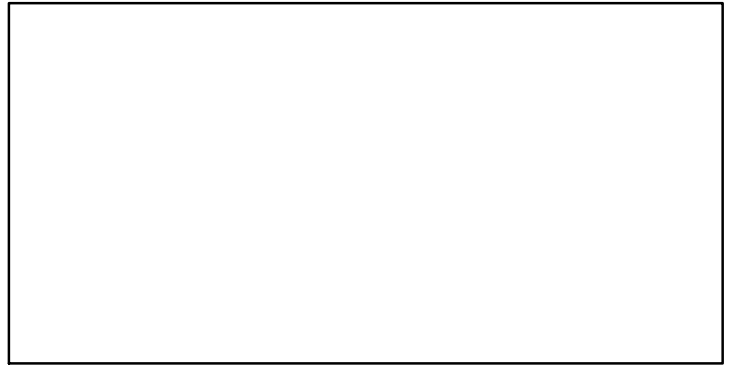
◆ Start Year ◆ End Year * No Data

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

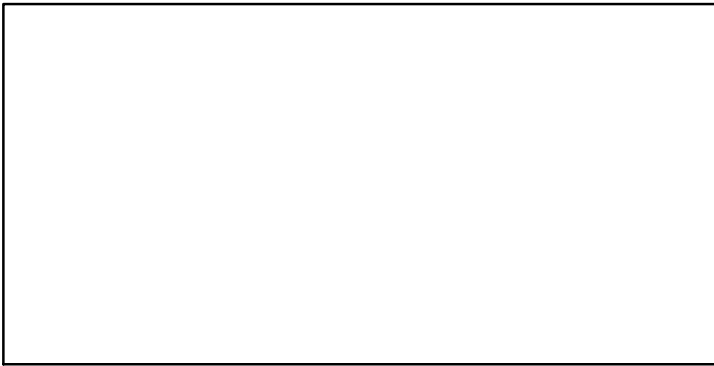
TB*



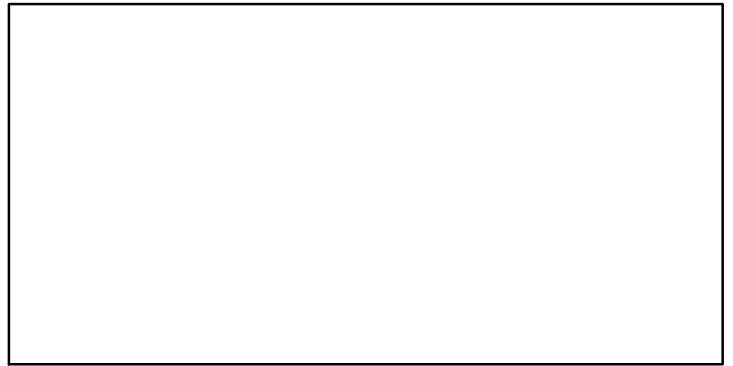
SSB*



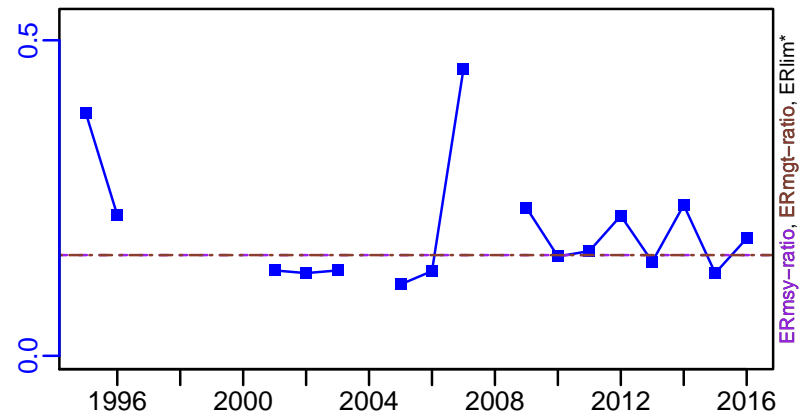
TN *



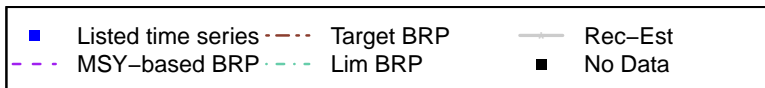
F*



ER-ratio (1981–2016–ICESIMP2018)



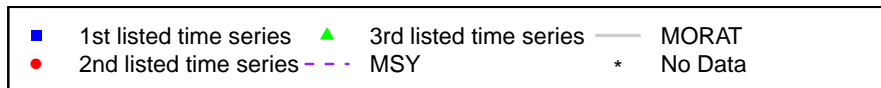
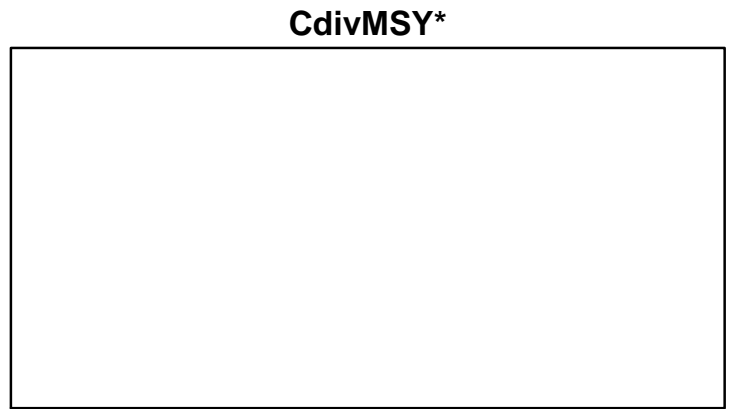
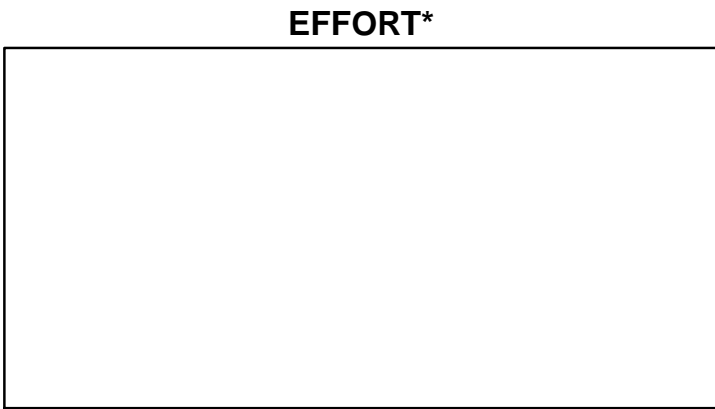
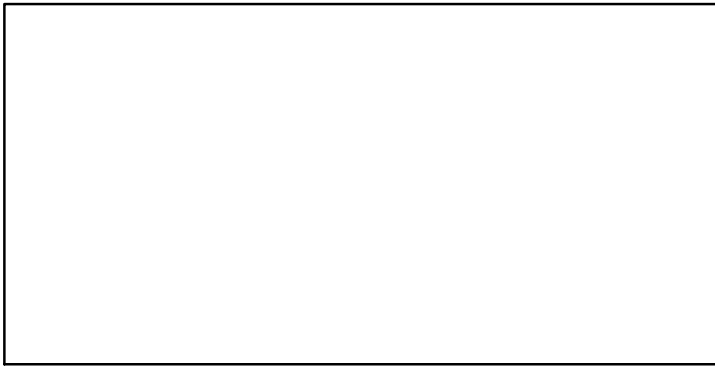
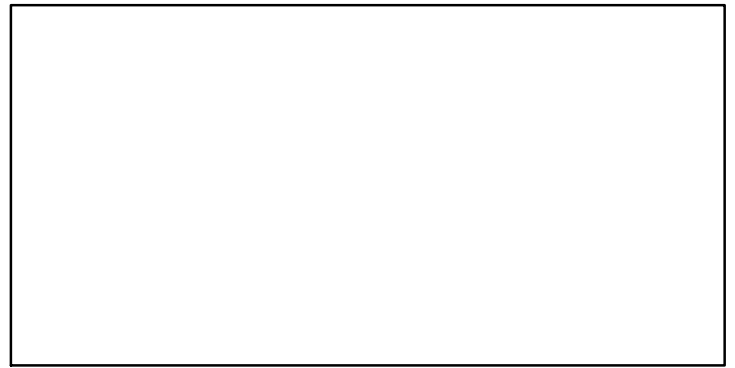
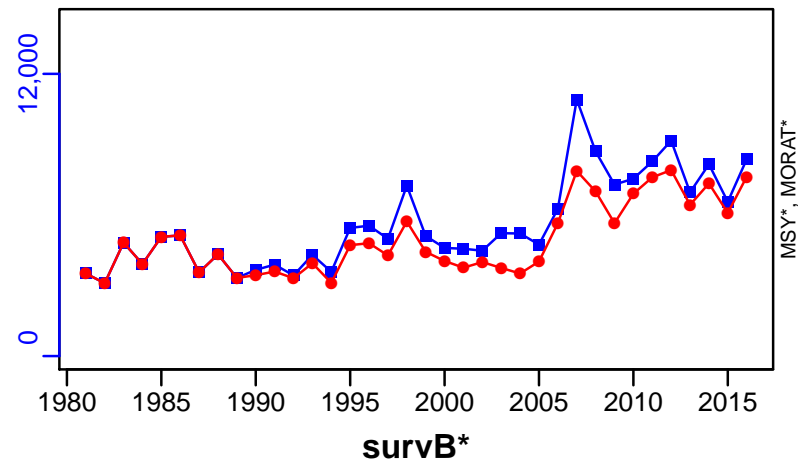
Recruits*



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

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

TAC*, Cpair*, Cadv*



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

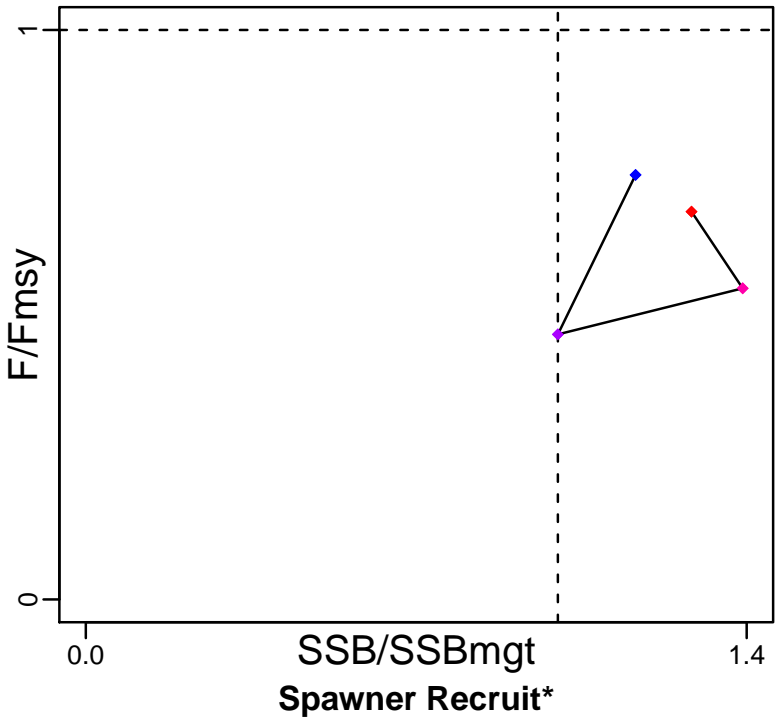
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU14-2000-2016-ICESIMP2018
Area	Irish Sea East (FU 14)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016

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

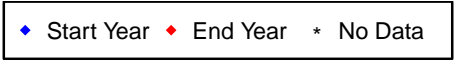
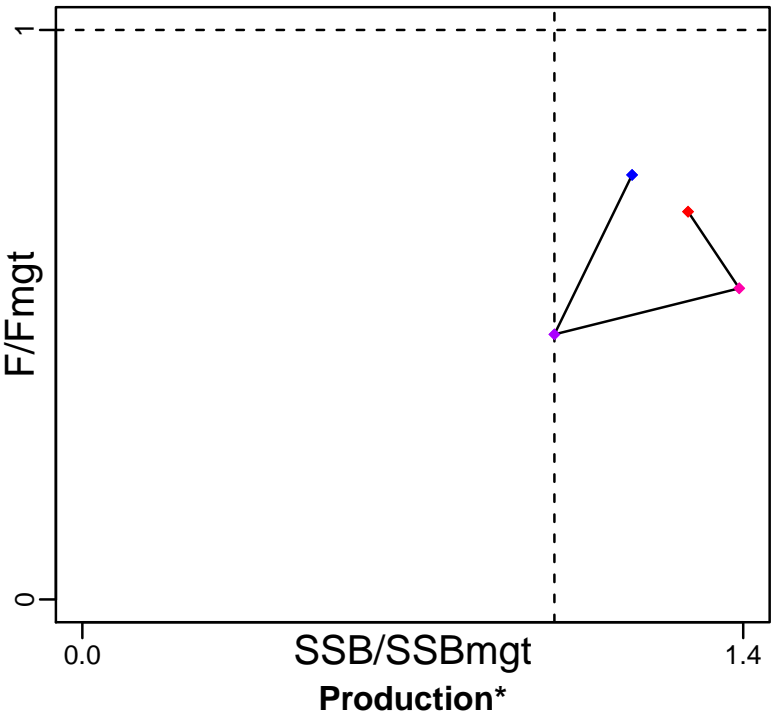
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	591	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	7.49	-	-
ER	ER-ratio	2016	0.038	-	-
TC	-	-	-		
TL	TL-MT	2016	237		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.681		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.347		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.687		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.681		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (2000–2015–ICESIMP2016)

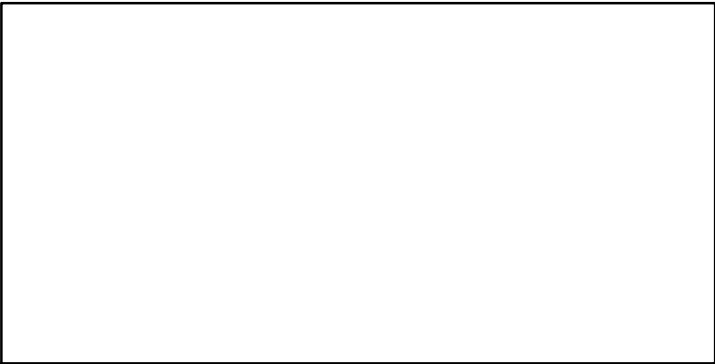


Kobe MGTpref (2000–2015–ICESIMP2016)

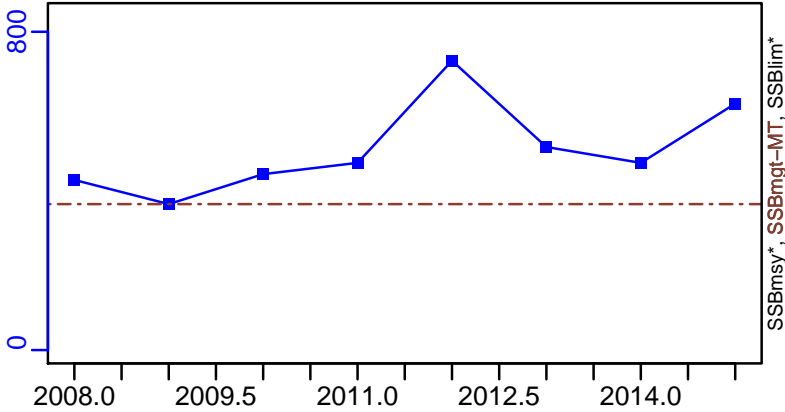


Norway lobster Irish Sea East (FU 14) [NEPHFU14]

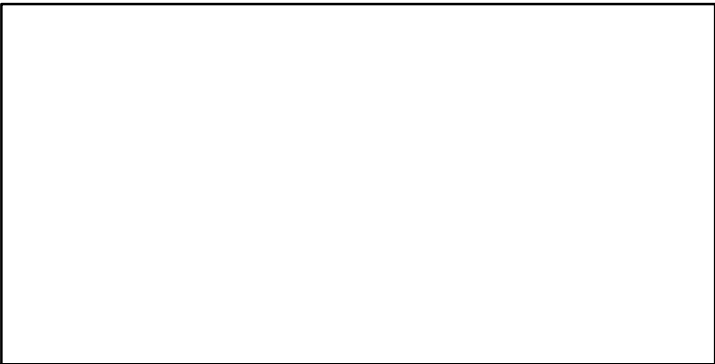
TB*



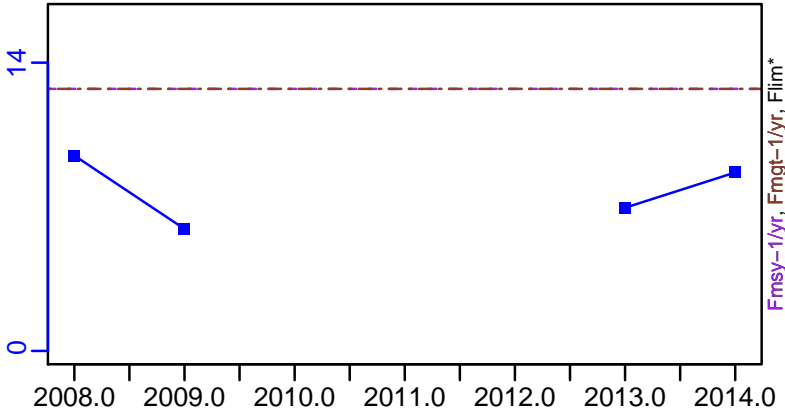
SSB-MT (2000–2015–ICESIMP2016)



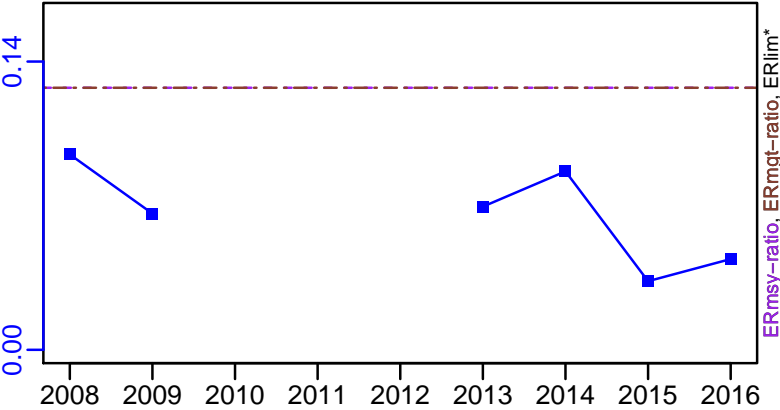
TN *



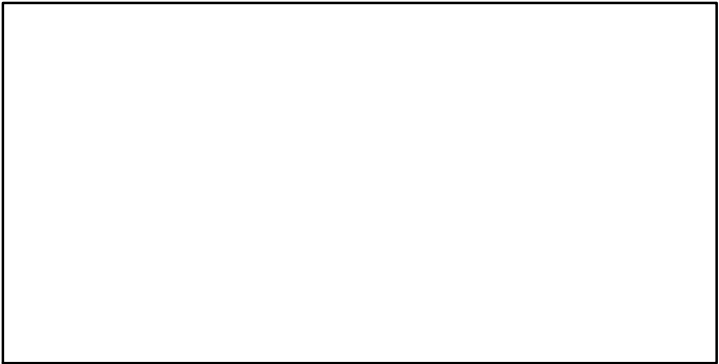
F-1/yr (2000–2015–ICESIMP2016)



ER-ratio (2000–2016–ICESIMP2018)

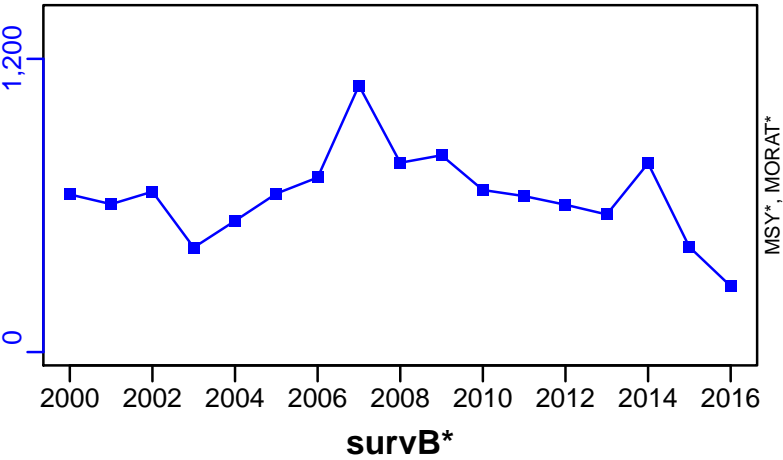


Recruits*



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

TL-MT, TC*, RecC* (2000–2016–ICESIMP2018)



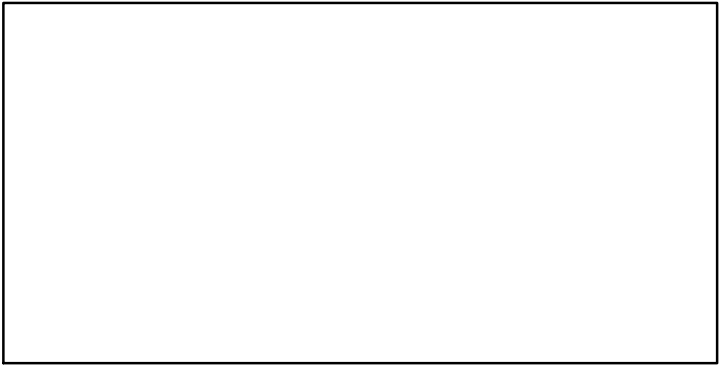
TAC*, Cpair*, Cadv*



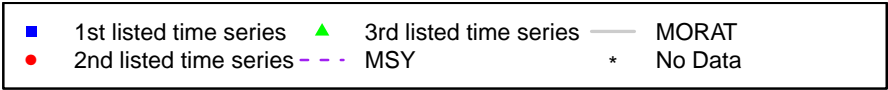
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU15-1960-2016-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	18.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	18.2
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	15.4	-	-
TC	-	-	-		
TL	TL-MT	2016	7320		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.848		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

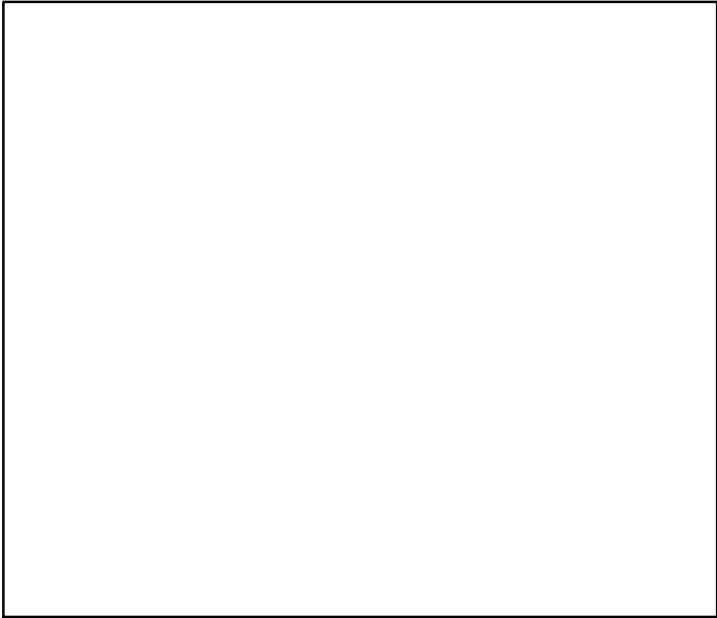
Kobe MSY*



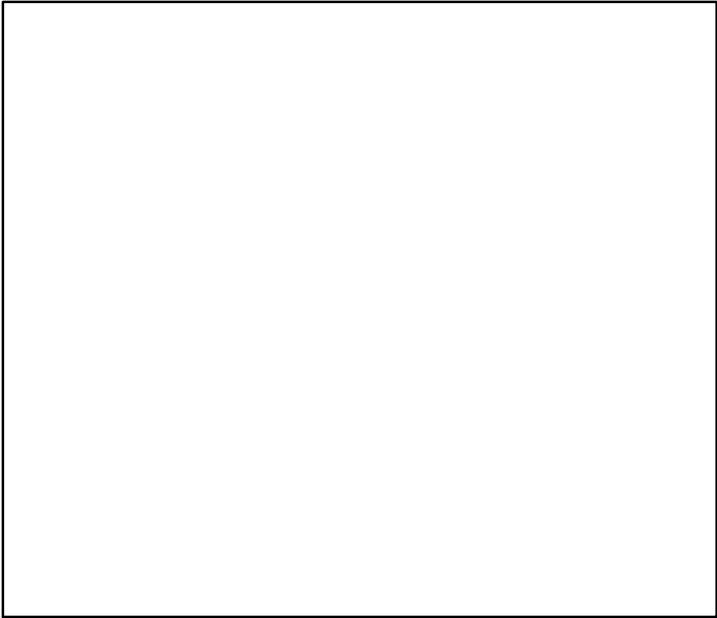
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

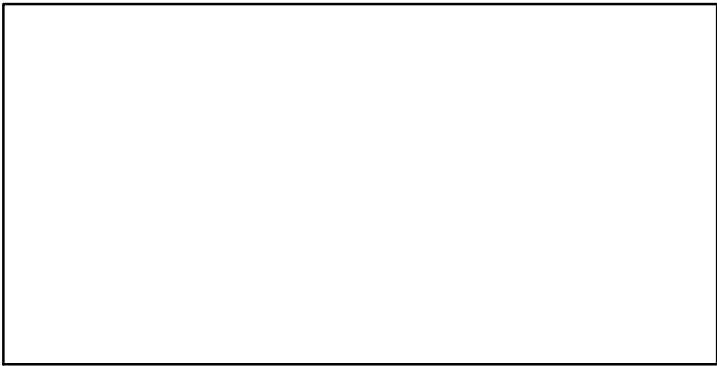
TB*



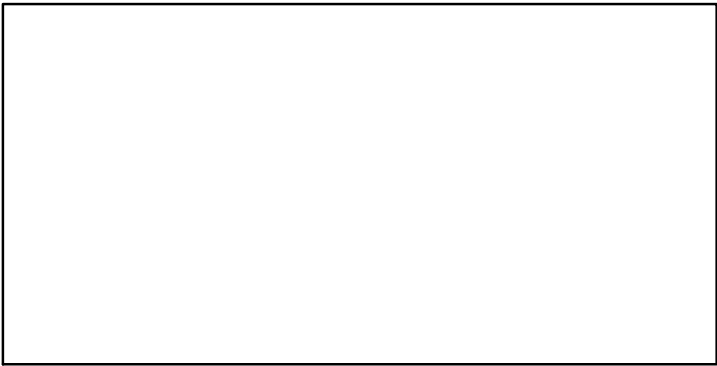
SSB*



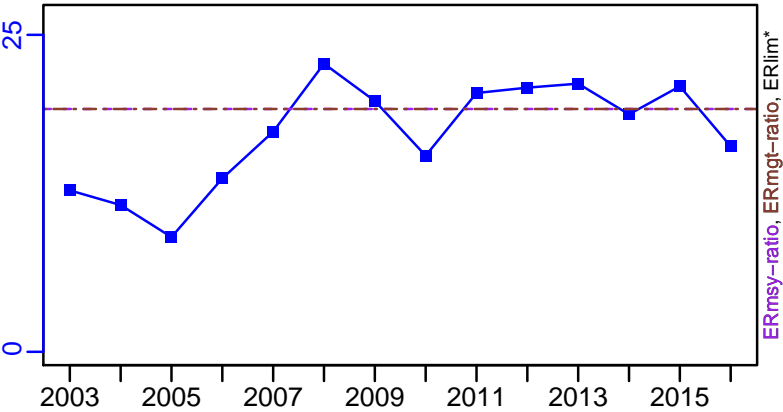
TN *



F*



ER-ratio (1960–2016–ICESIMP2018)

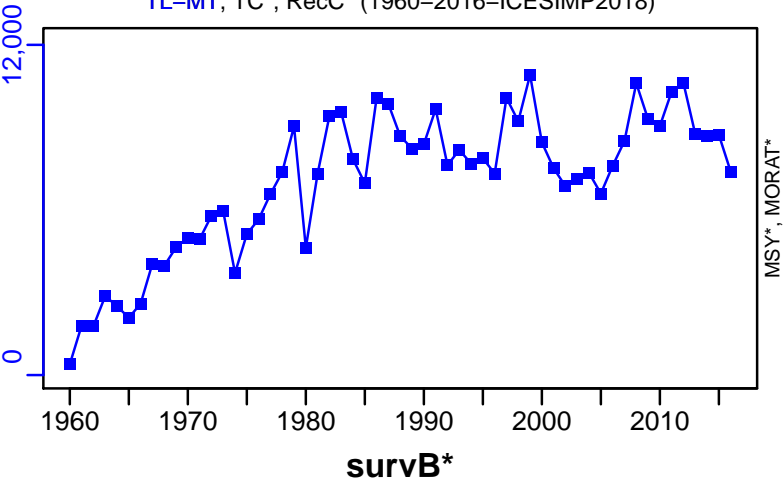


Recruits*

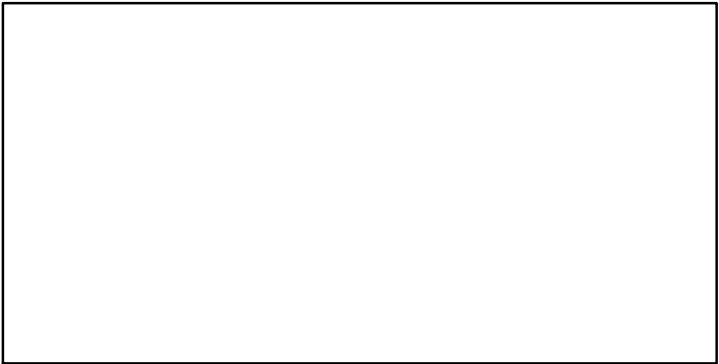


Norway lobster Irish Sea West (FU 15) [NEPHFU15]

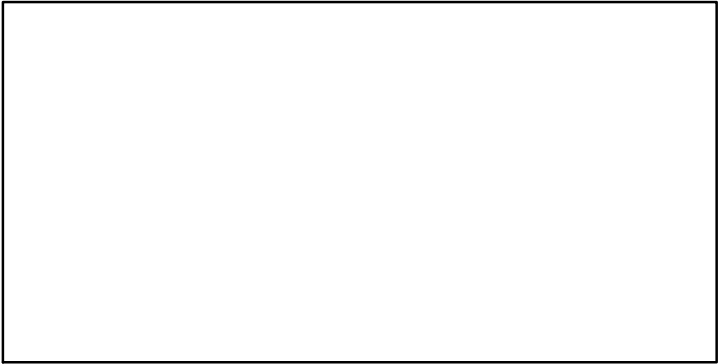
TL-MT, TC*, RecC* (1960-2016-ICESIMP2018)



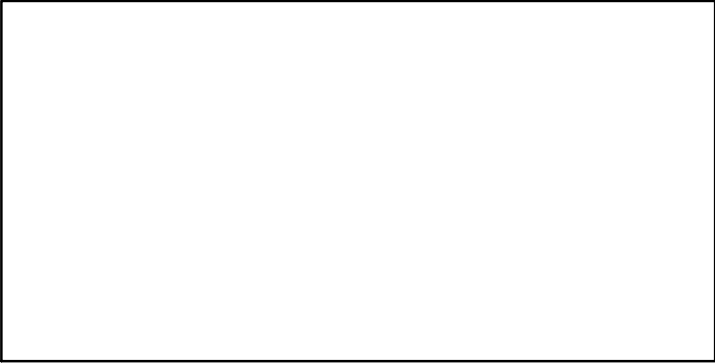
TAC*, Cpair*, Cadv*



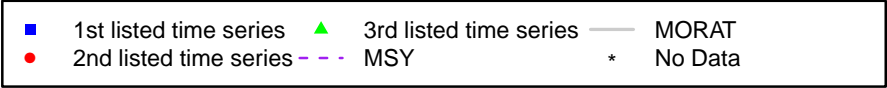
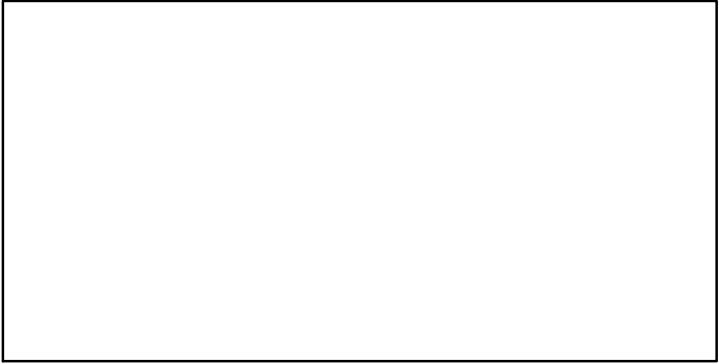
CPUE*



EFFORT*



CdivMSY*



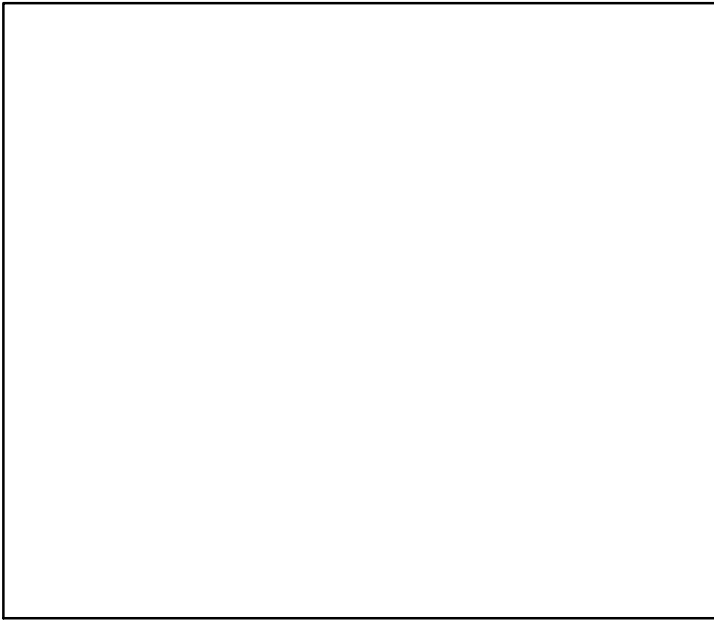
Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU16-1979-2016-ICESIMP2018
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, 2015, 2016

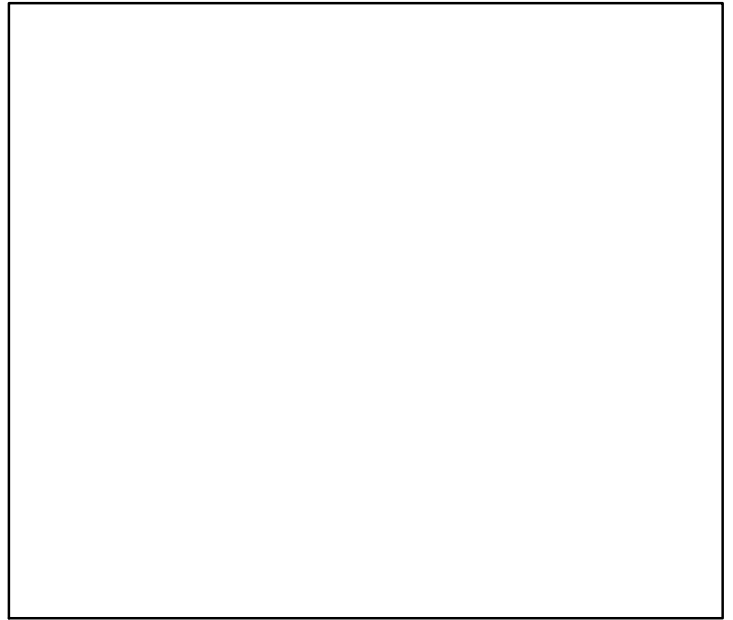
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	6.2
ERmsy	ERmsy-ratio	2016	0.062
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	6.2
ERmgt	ERmgt-ratio	2016	0.062
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	958	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	3.3	-	-
ER	ER-ratio	2016	0.056	-	-
TC	-	-	-		
TL	TL-MT	2016	2150		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.532		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.901		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.532		
ER/ERmgt	-	-	-		

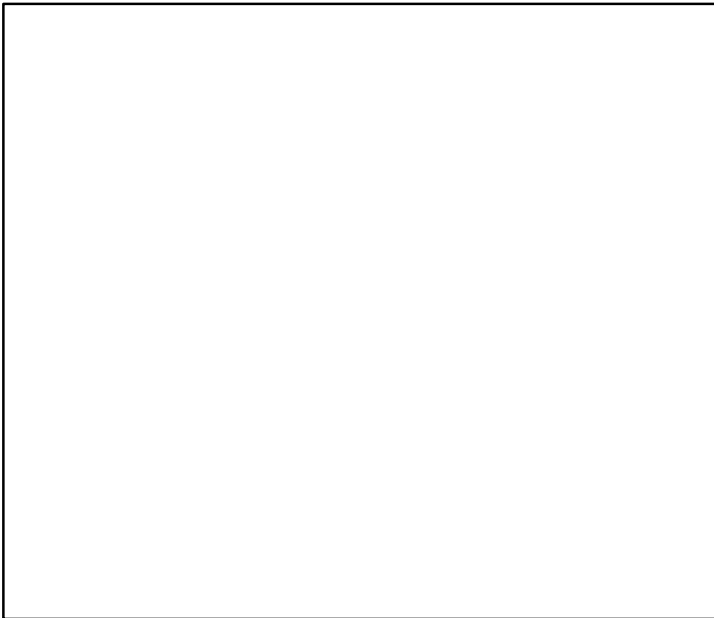
Kobe MSY*



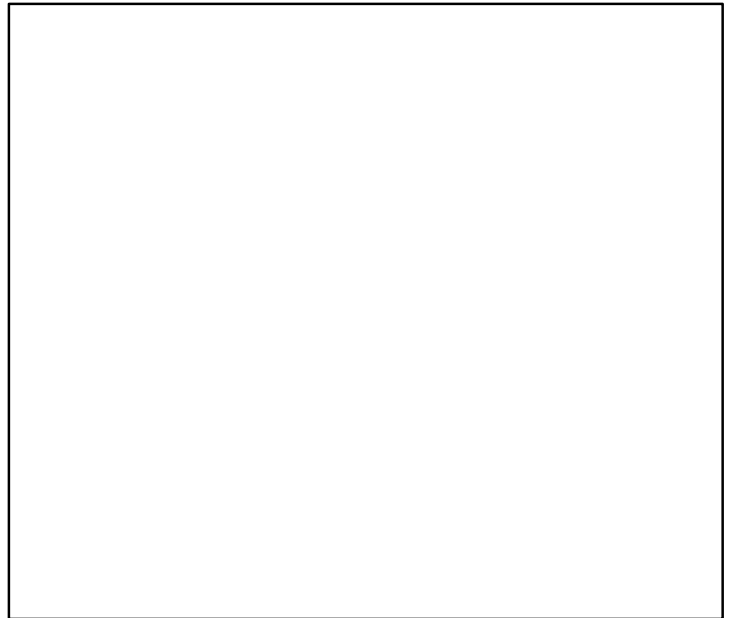
Kobe MGT*



Spawner Recruit*



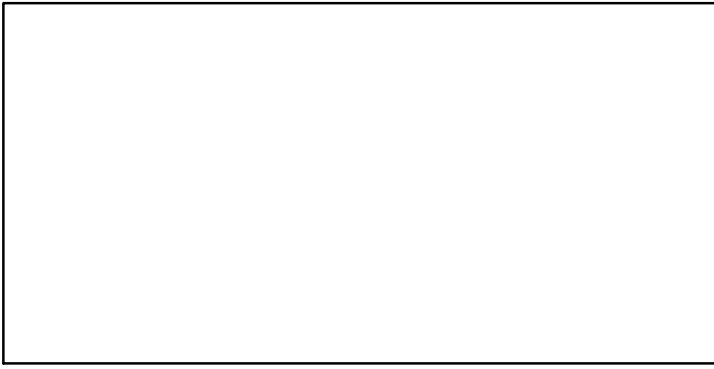
Production*



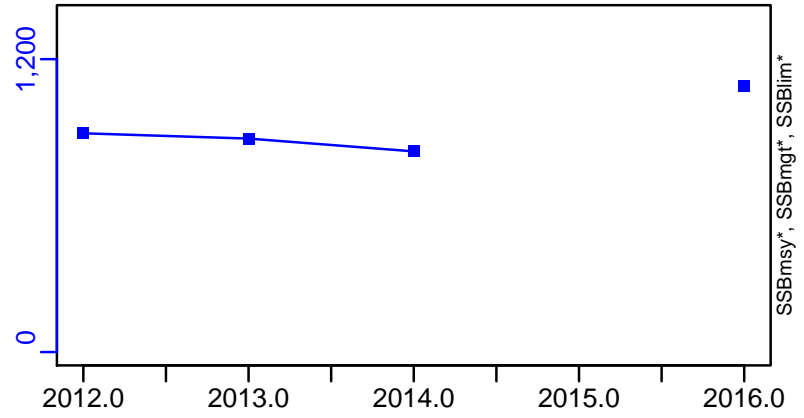
◆ Start Year ◆ End Year * No Data

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

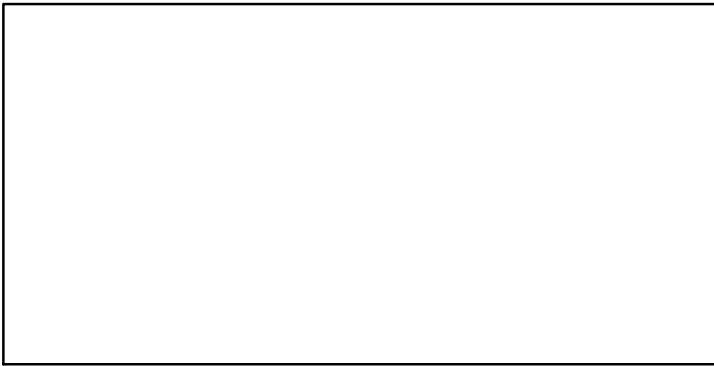
TB*



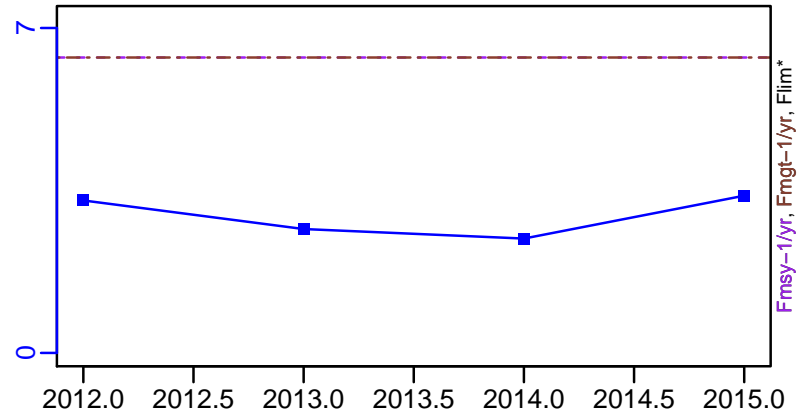
SSB-MT (1986–2016–ICESIMP2018)



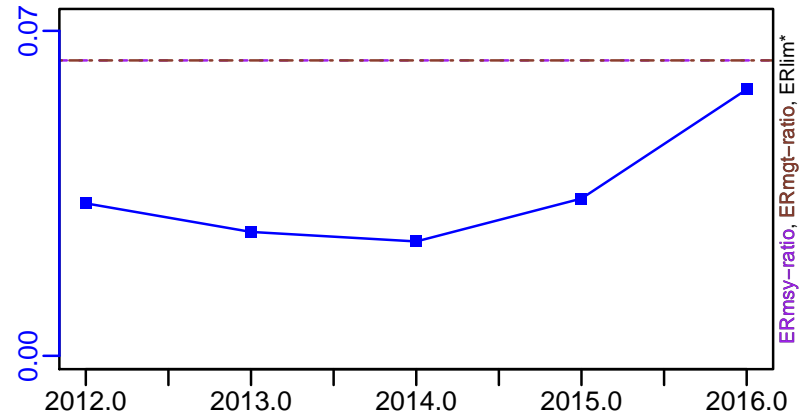
TN *



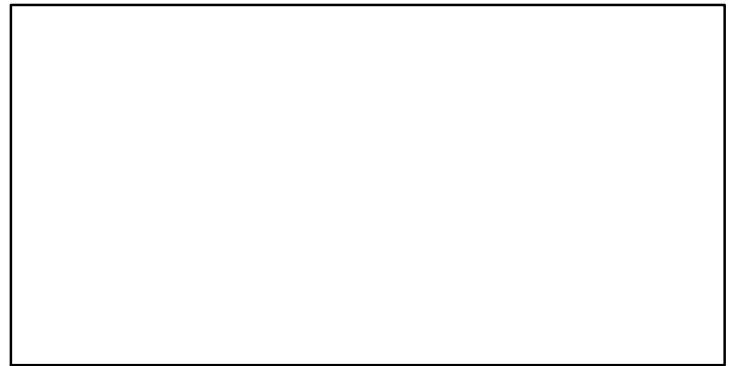
F-1/yr (1986–2016–ICESIMP2018)



ER-ratio (1979–2016–ICESIMP2018)



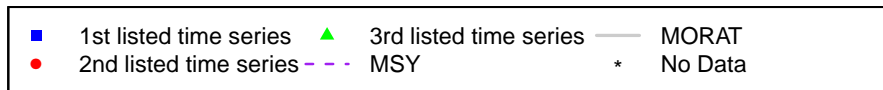
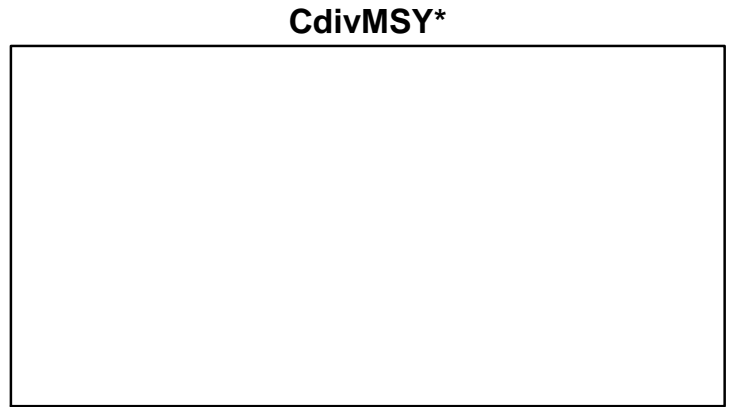
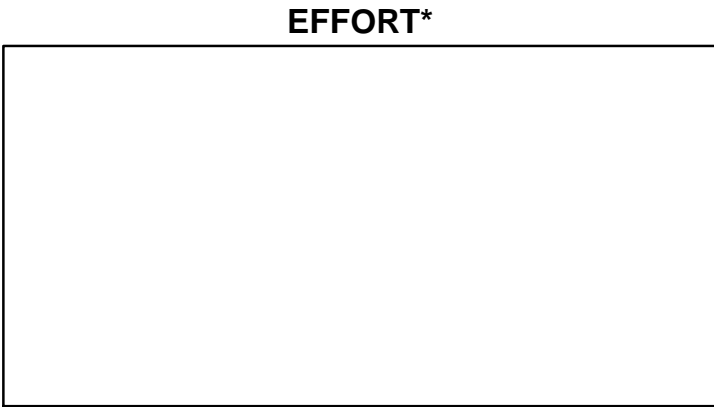
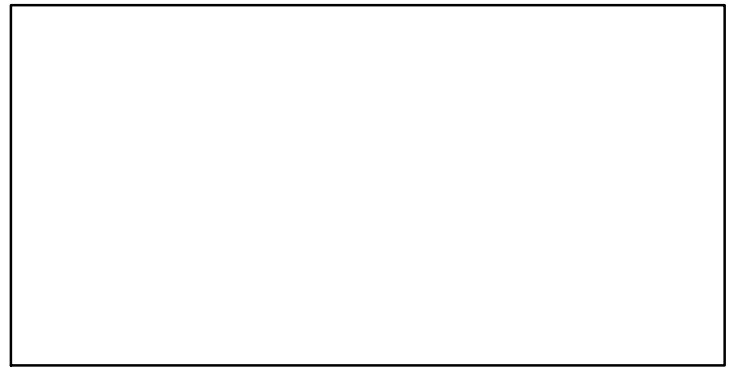
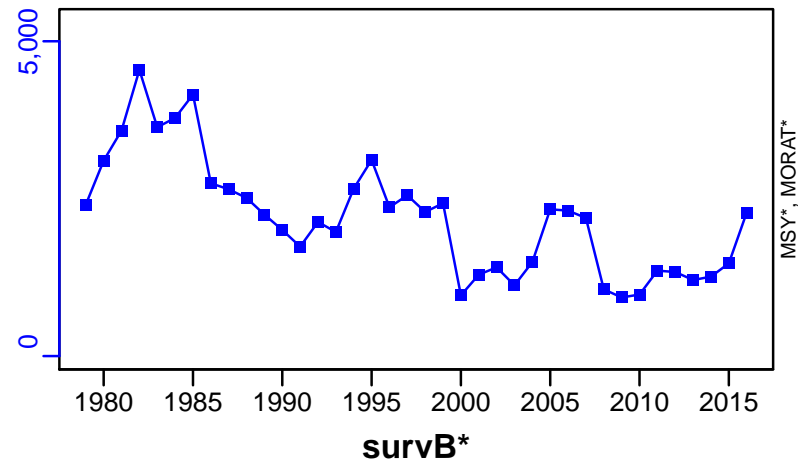
Recruits*



Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

TL-MT, TC*, RecC* (1979-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Norway lobster Aran Grounds (FU 17) [NEPHFU17]

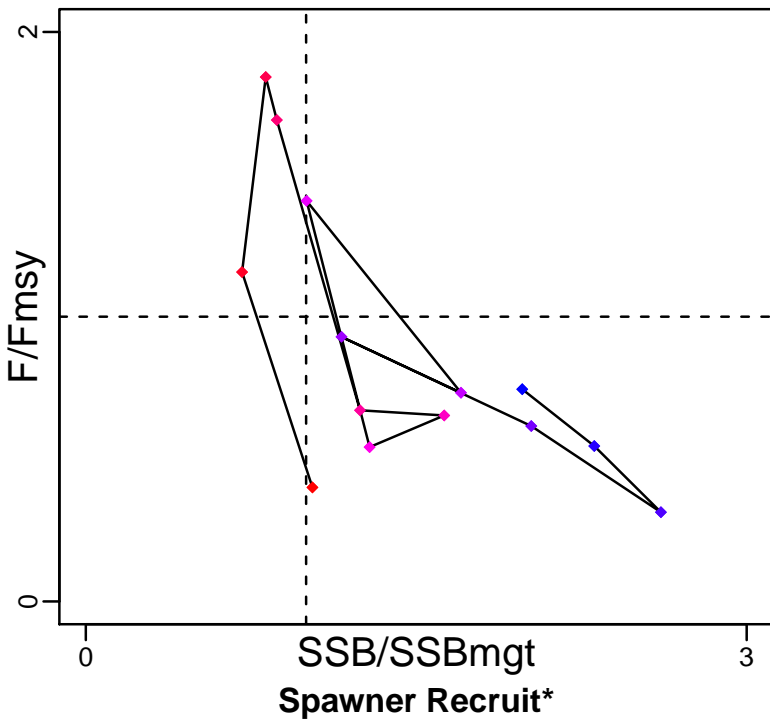
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU17-1988-2016-ICESIMP2018
Area	Aran Grounds (FU 17)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2016

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

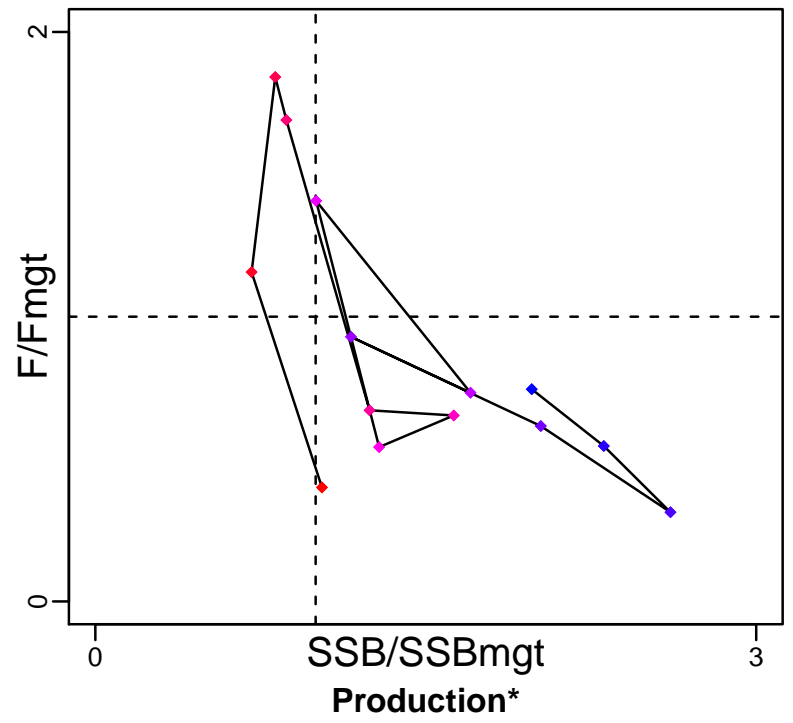
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	379	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	3.4	-	-
ER	ER-ratio	2016	0.092	-	-
TC	-	-	-		
TL	TL-MT	2016	370		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.4		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.086		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.702		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.4		
ER/ERmgt	-	-	-		

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

Kobe MSYpref (1974–2016–ICESIMP2018)



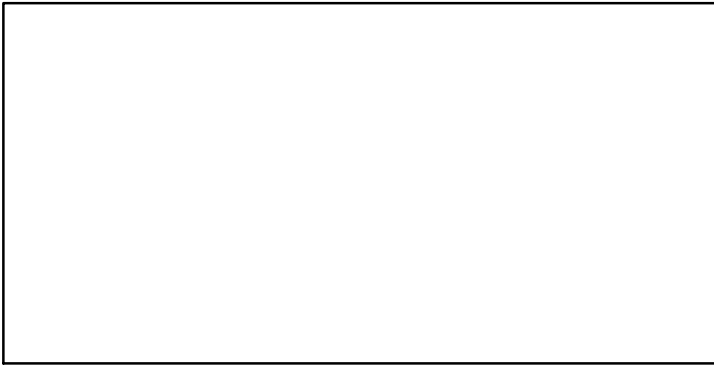
Kobe MGTpref (1974–2016–ICESIMP2018)



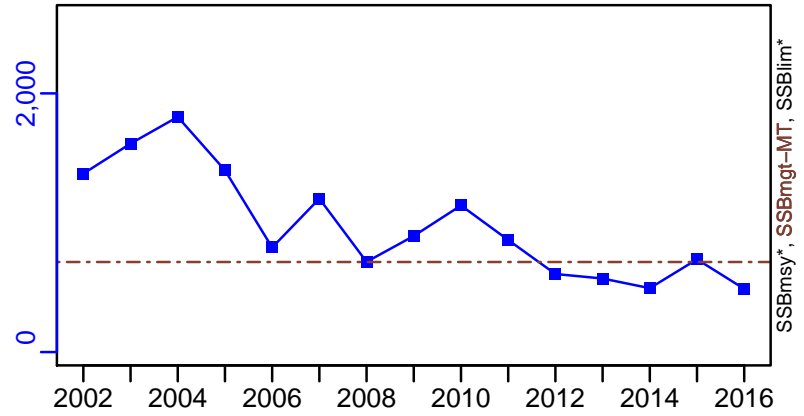
◆ Start Year ◆ End Year * No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

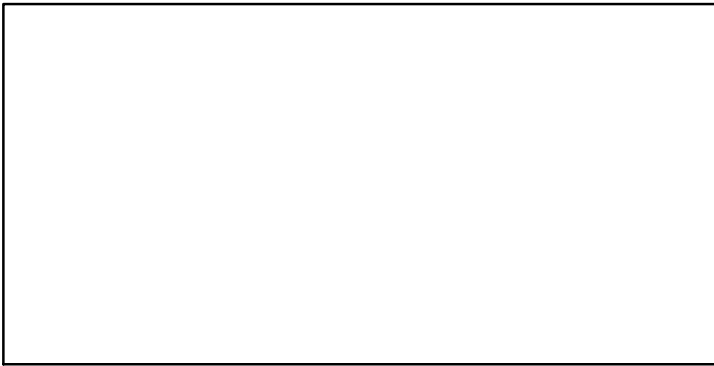
TB*



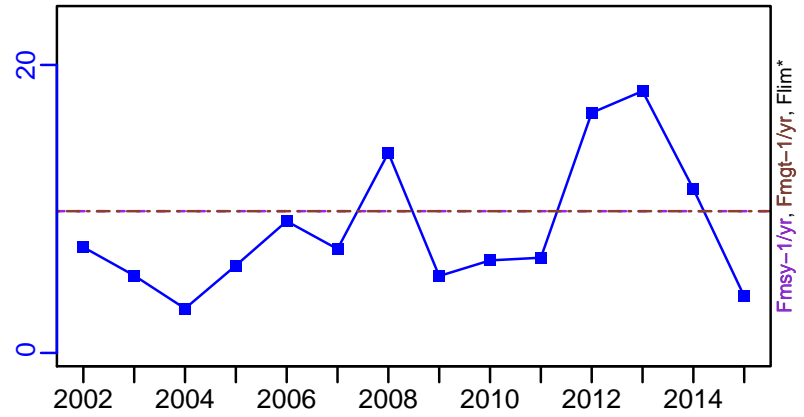
SSB-MT (1974–2016–ICESIMP2018)



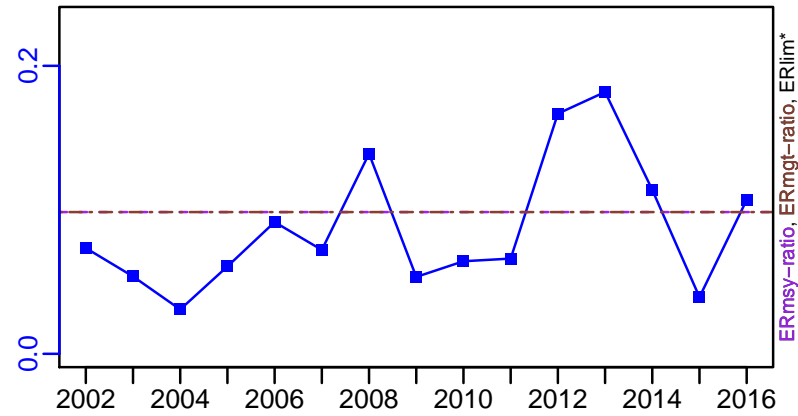
TN *



F-1/yr (1974–2016–ICESIMP2018)



ER-ratio (1988–2016–ICESIMP2018)

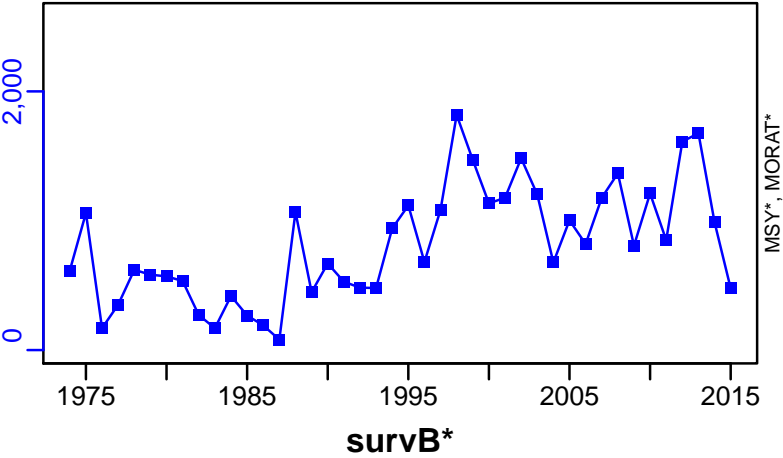


Recruits*

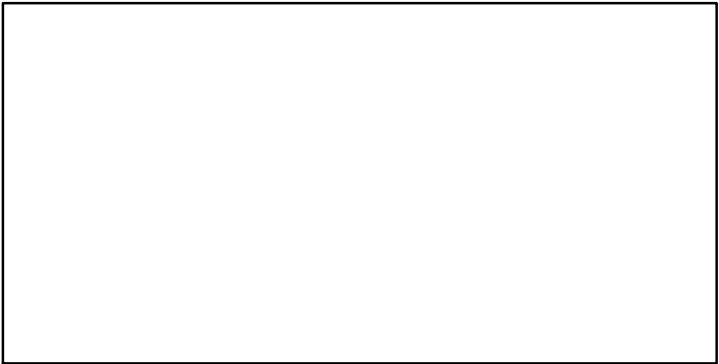


Norway lobster Aran Grounds (FU 17) [NEPHFU17]

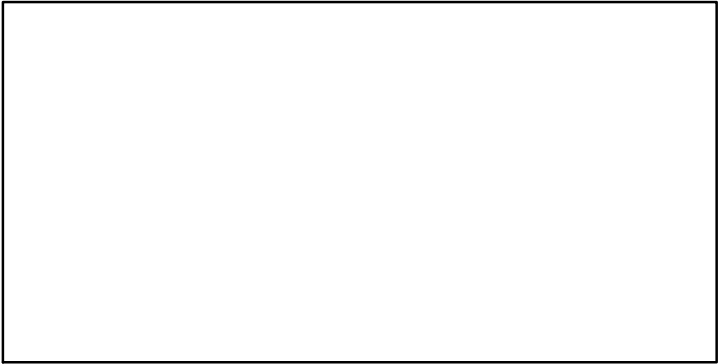
TL-MT, TC*, RecC* (1974–2016–ICESIMP2018)



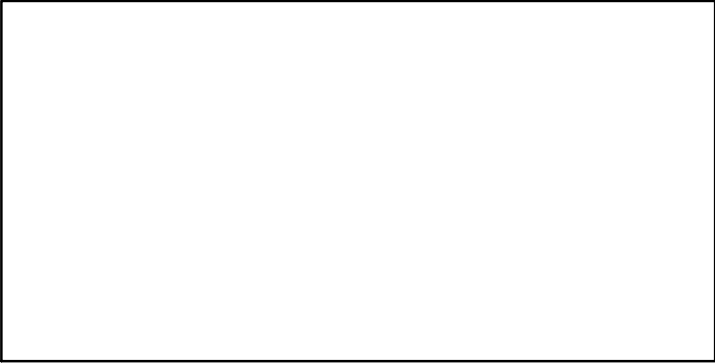
TAC*, Cpair*, Cadv*



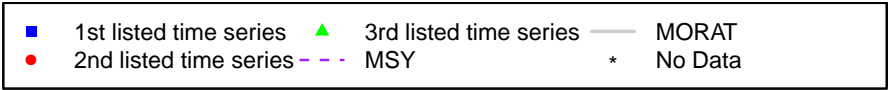
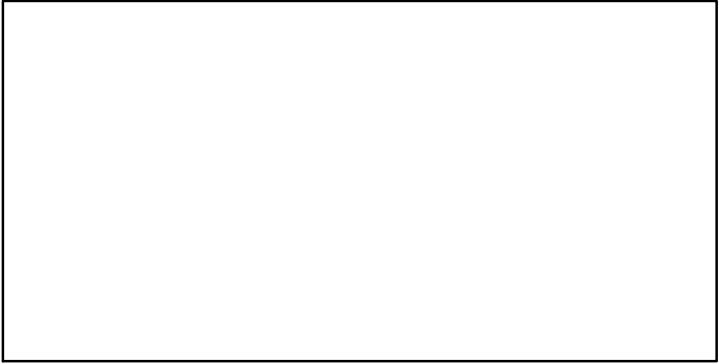
CPUE*



EFFORT*



CdivMSY*



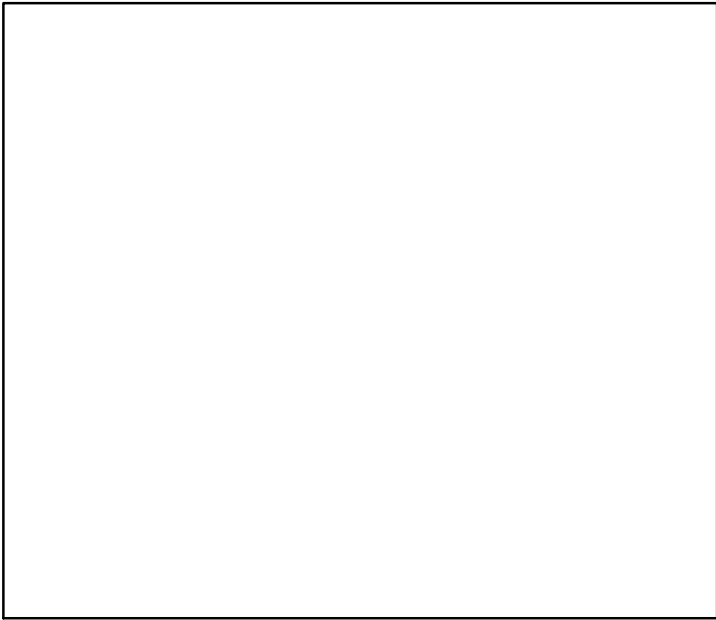
Norway lobster South East and West of IRL (FU 19) [NEPHFU19]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU19-2006-2016-ICESIMP2018
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	2015, 2016

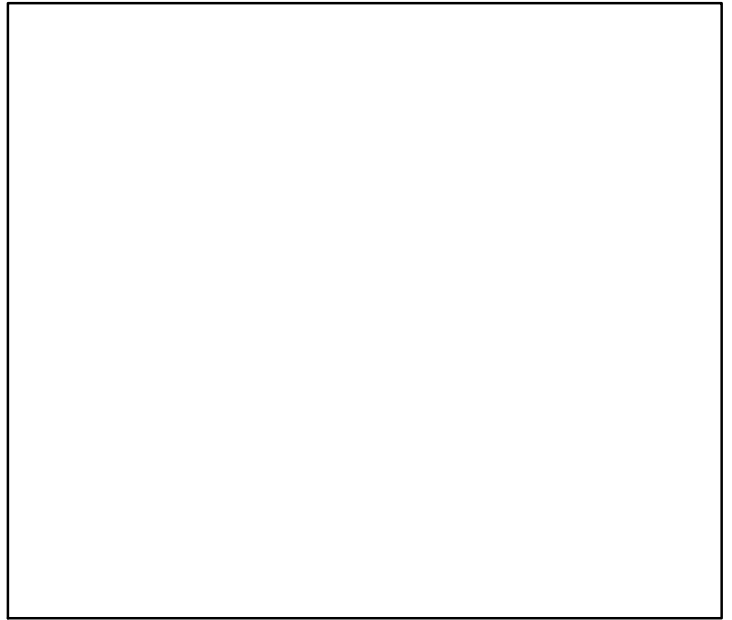
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.093
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.093
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.075	-	-
TC	-	-	-		
TL	TL-MT	2016	591		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.807		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

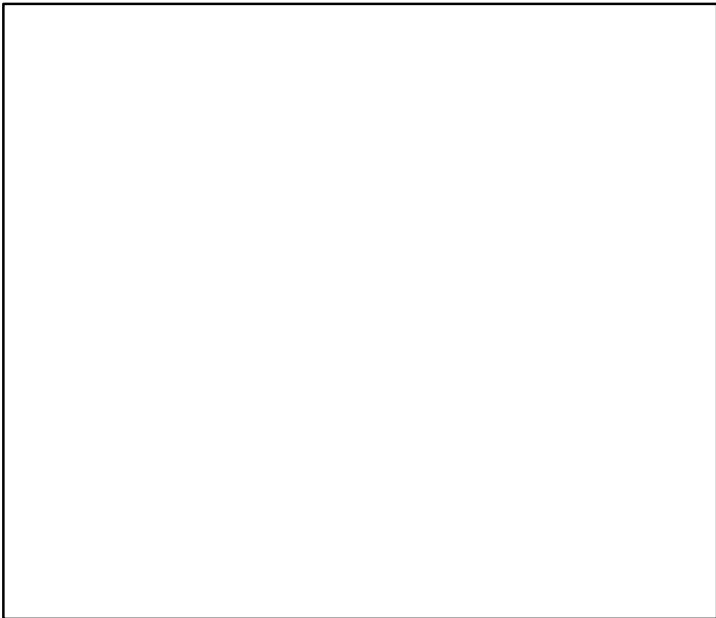
Kobe MSY*



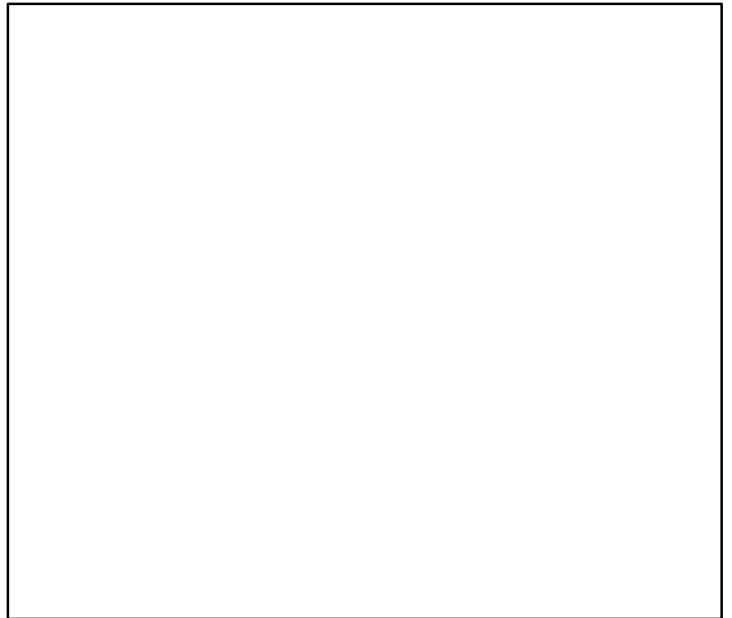
Kobe MGT*



Spawner Recruit*



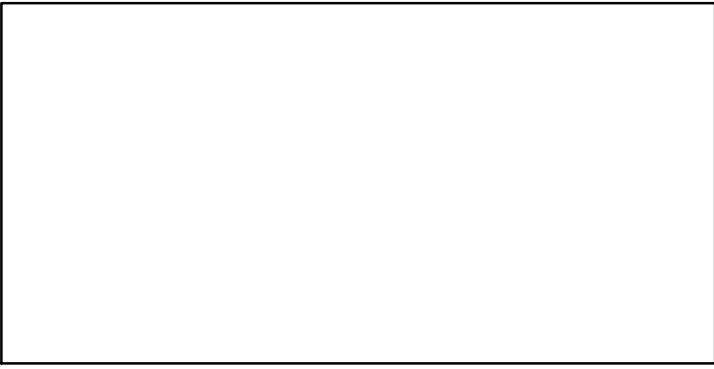
Production*



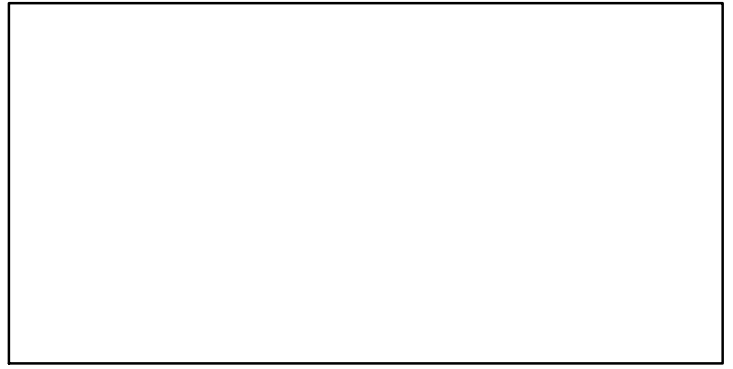
◆ Start Year ◆ End Year * No Data

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

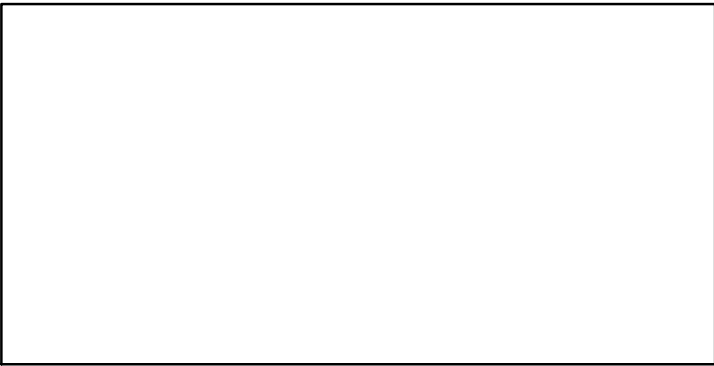
TB*



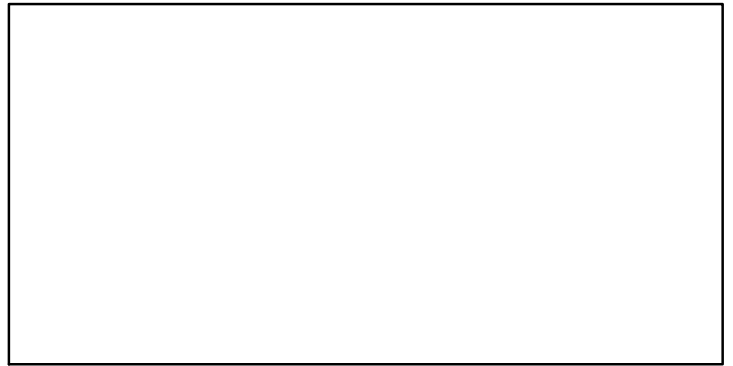
SSB*



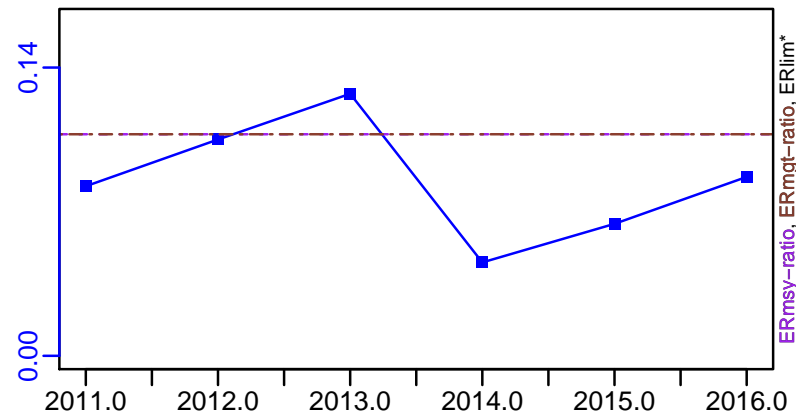
TN *



F*



ER-ratio (2006–2016–ICESIMP2018)



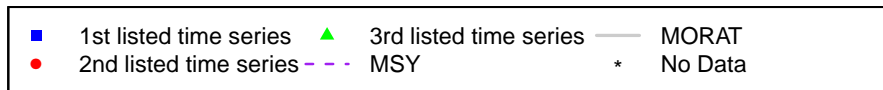
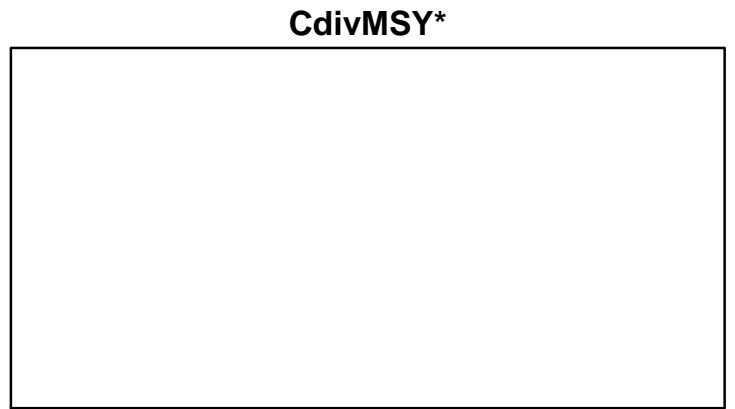
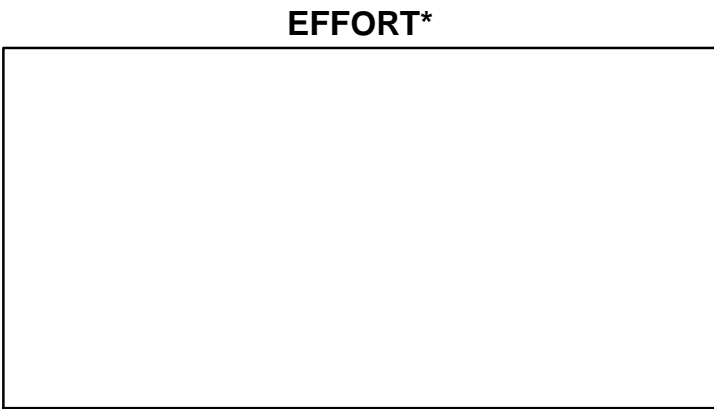
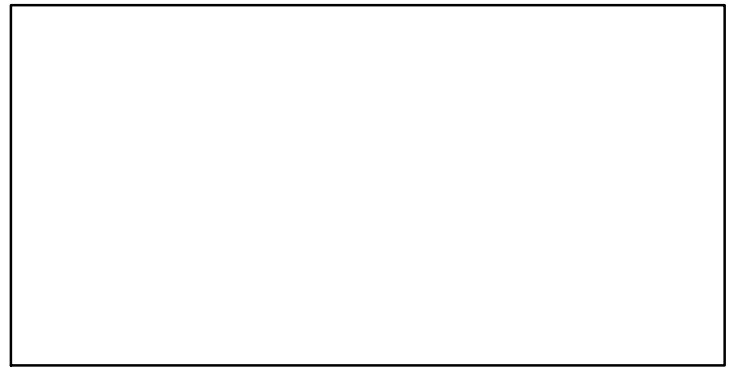
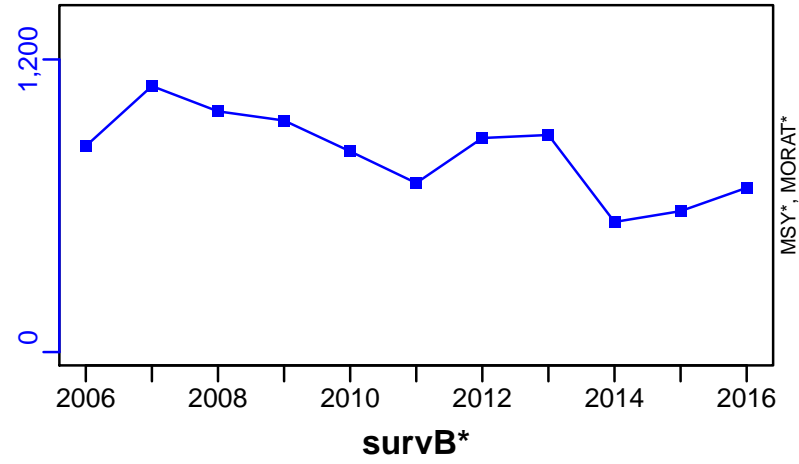
Recruits*



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

TL-MT, TC*, RecC* (2006–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



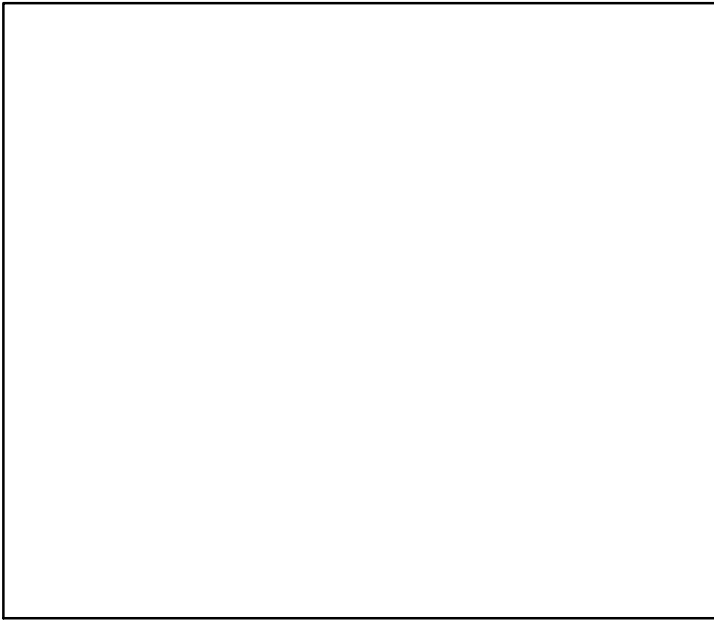
Norway lobster Labadie, Jones and Cockburn (FU 20-21) [NEPHFU2021]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU2021-1995-2016-ICESIMP2018
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

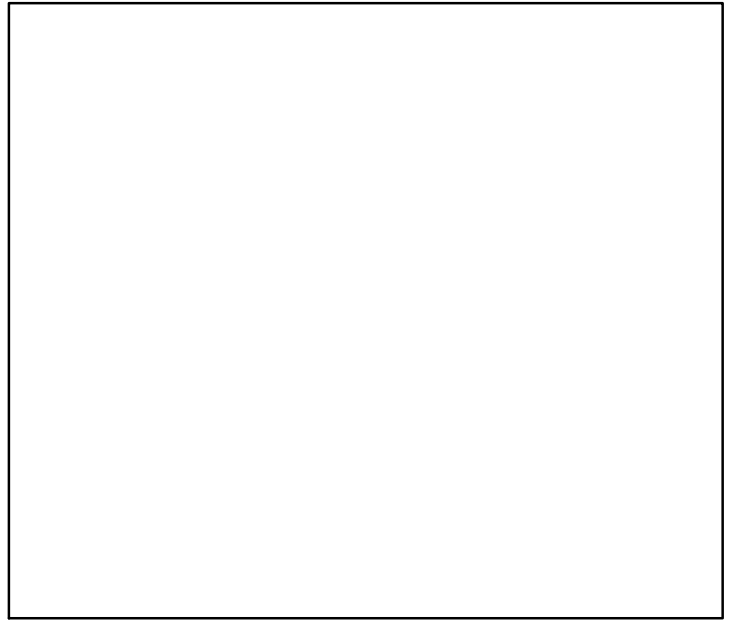
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.06
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.047	-	-
TC	-	-	-		
TL	TL-MT	2016	2450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.783		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

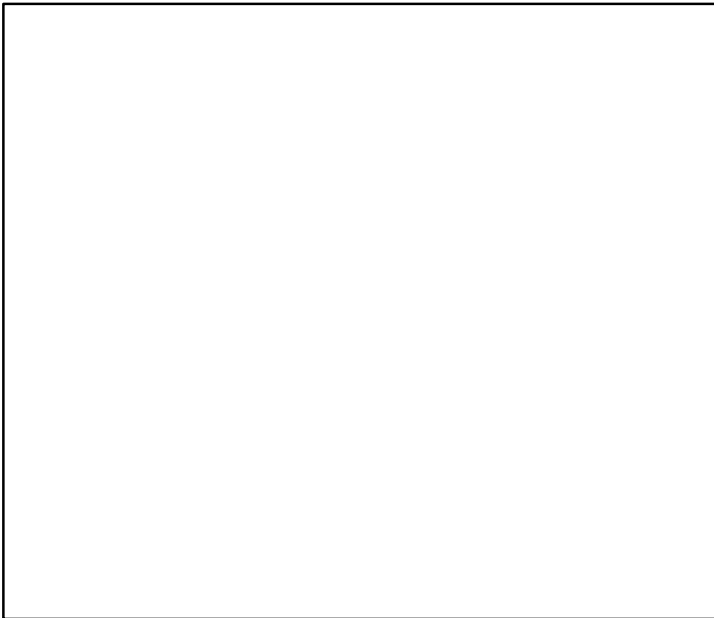
Kobe MSY*



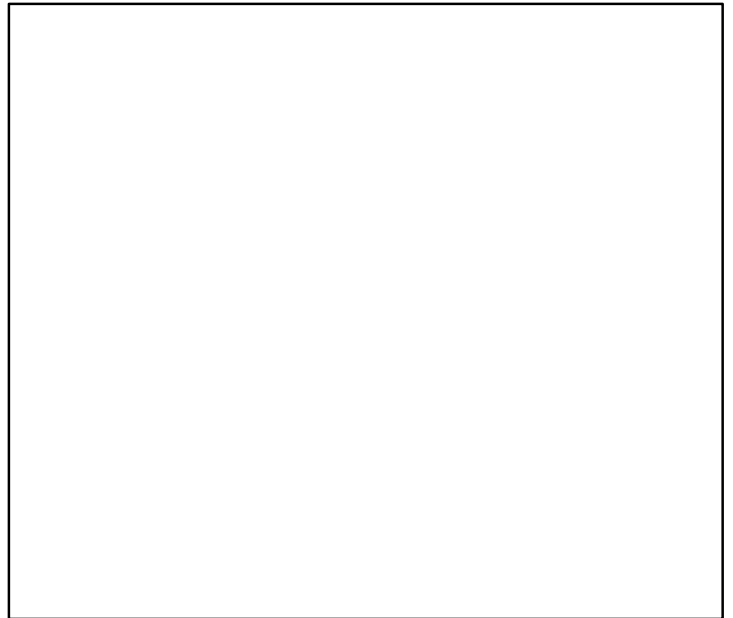
Kobe MGT*



Spawner Recruit*

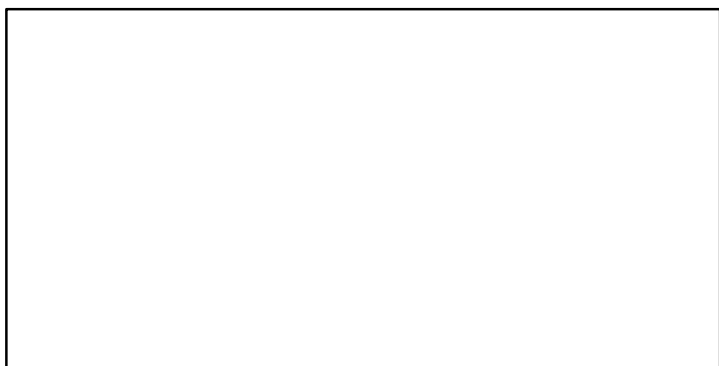


Production*

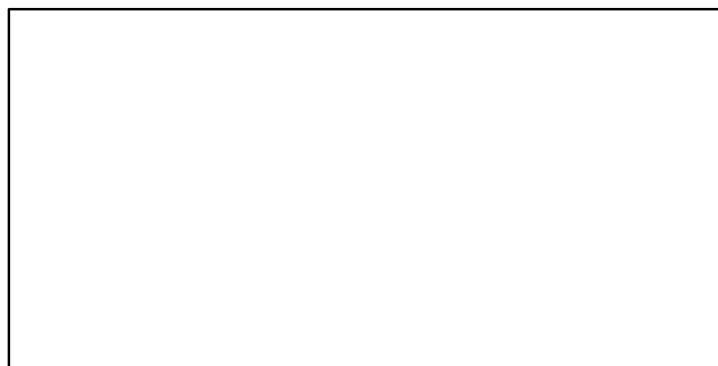


◆ Start Year ◆ End Year * No Data

TB*



SSB*



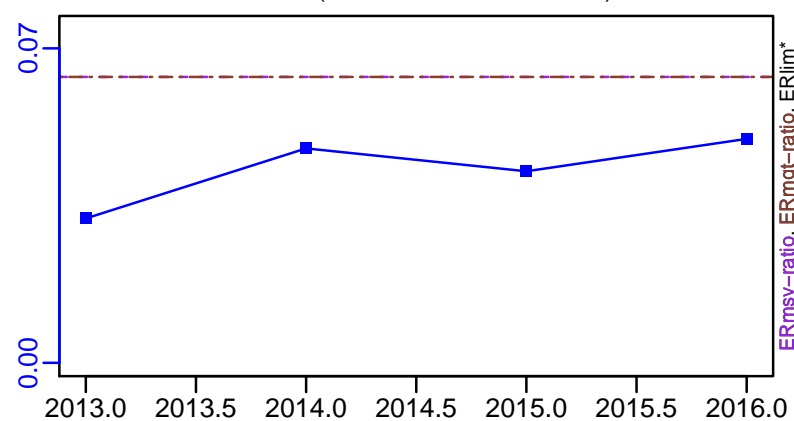
TN *



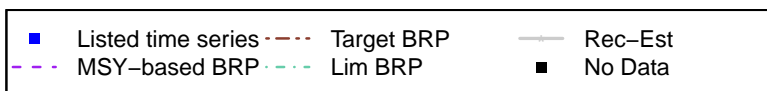
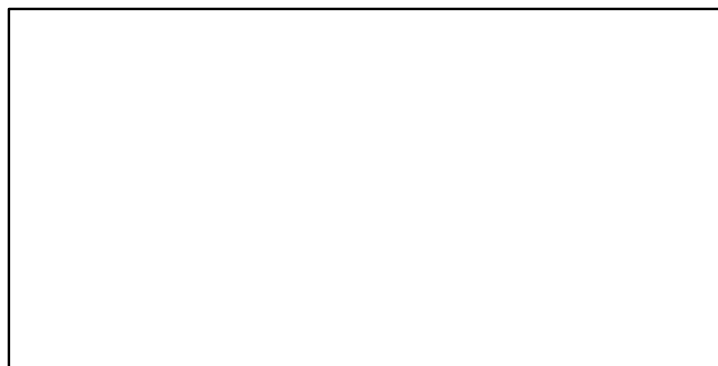
F*



ER-ratio (1995–2016–ICESIMP2018)



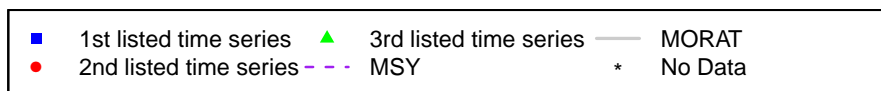
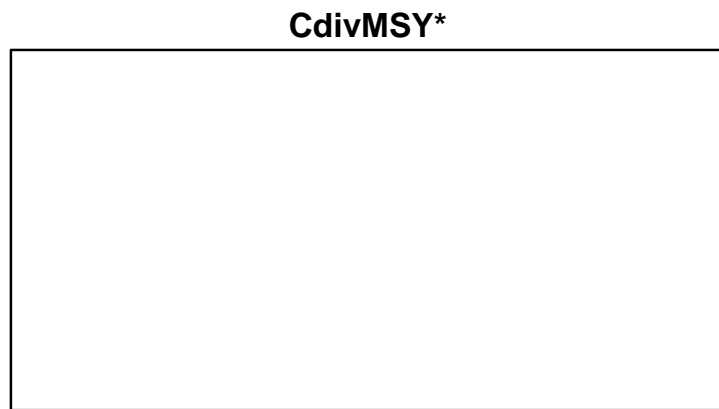
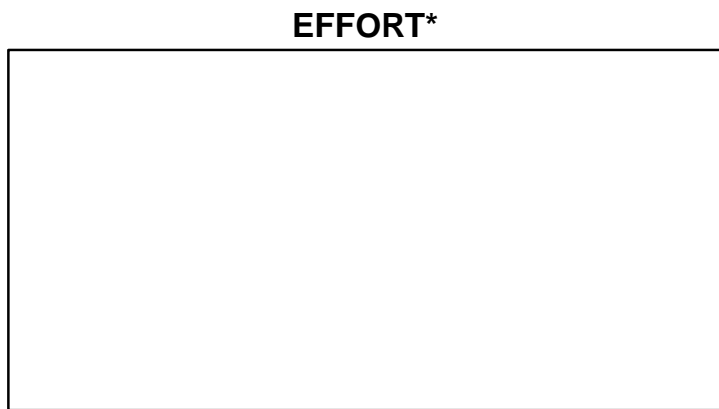
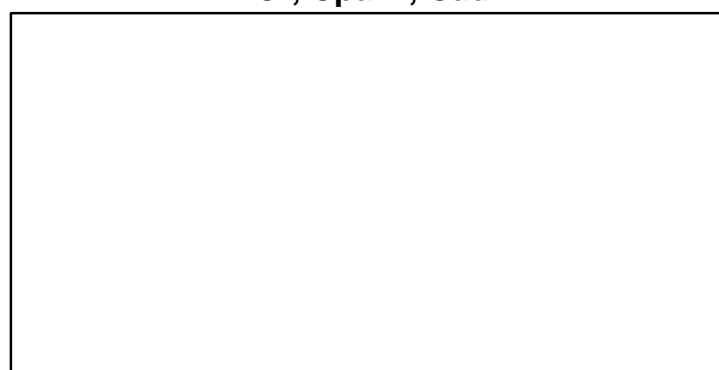
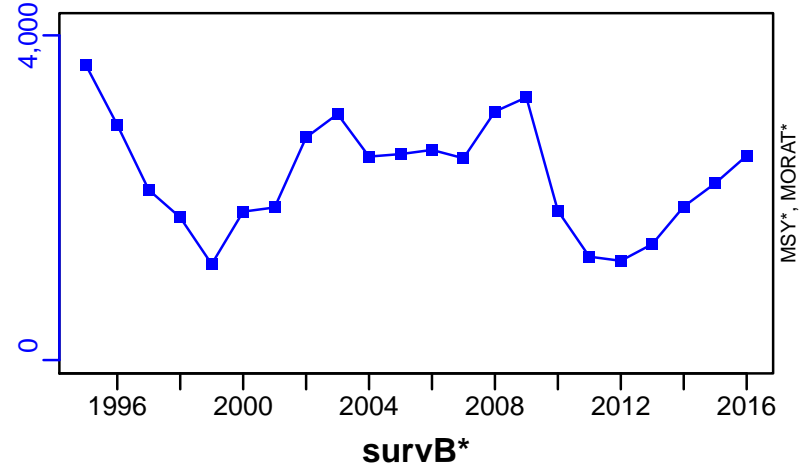
Recruits*



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

TL–MT, TC*, RecC* (1995–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



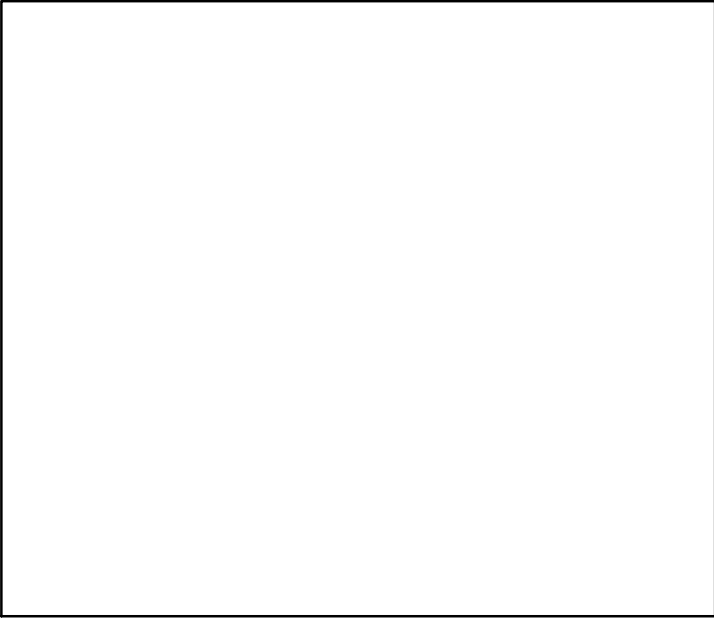
Norway lobster Smalls (FU 22) [NEPHFU22]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU22-1999-2016-ICESIMP2018
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

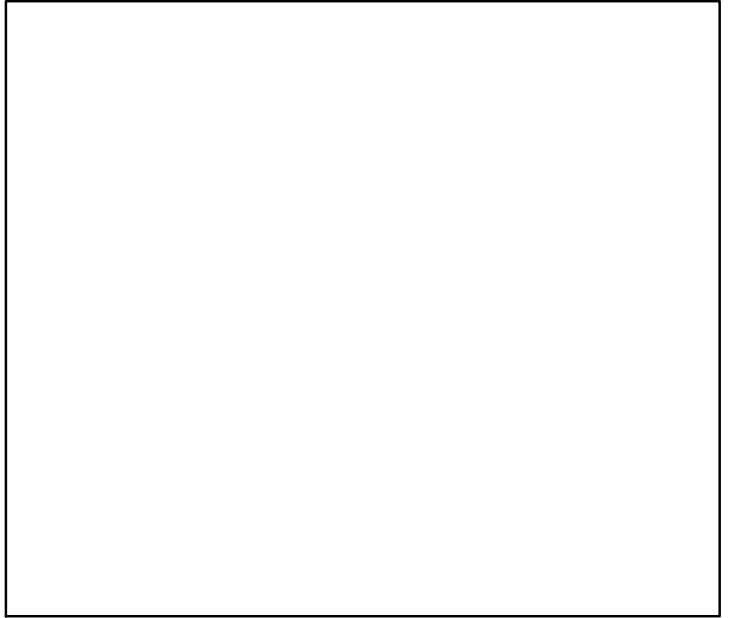
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.128
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.128
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.228	-	-
TC	-	-	-		
TL	TL-MT	2016	3280		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.785		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

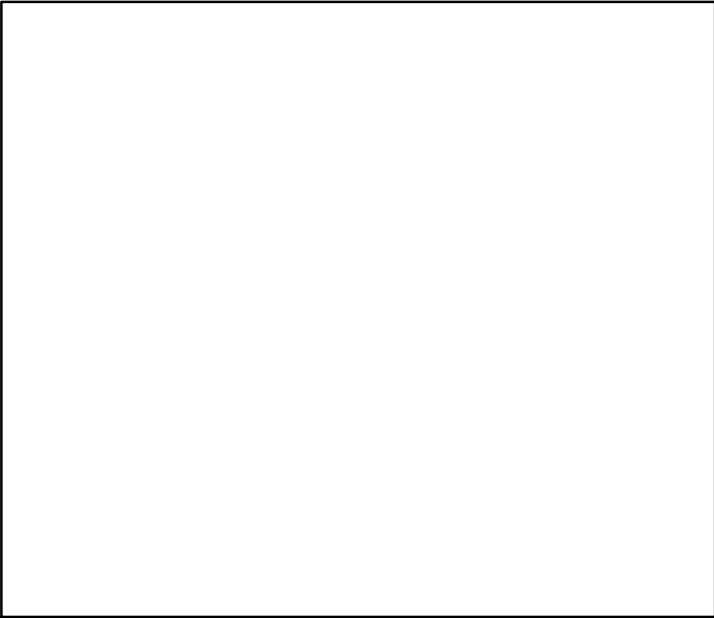
Kobe MSY*



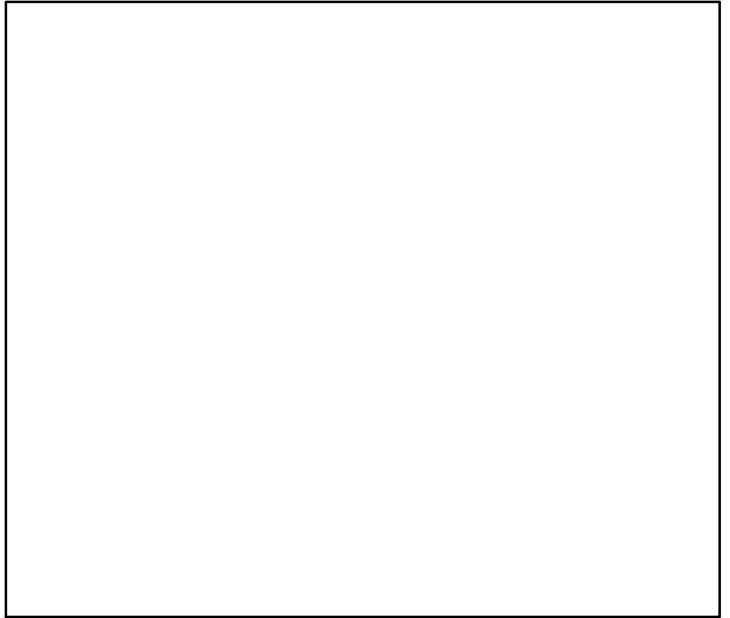
Kobe MGT*



Spawner Recruit*



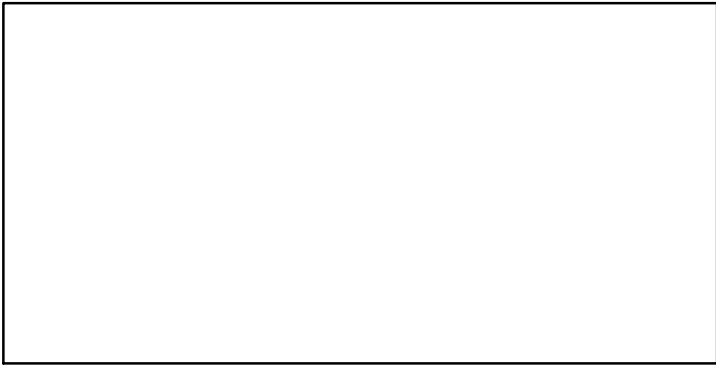
Production*



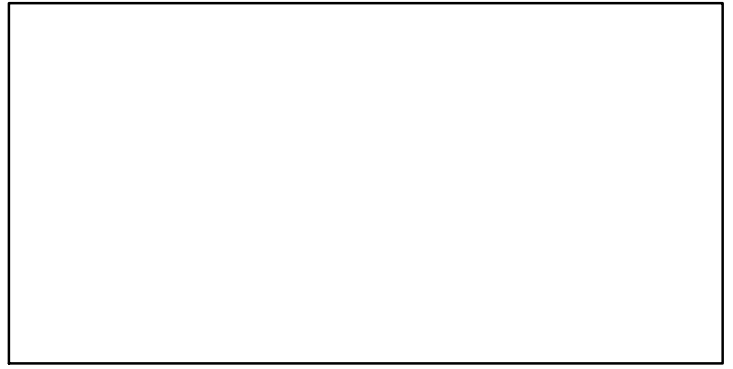
◆ Start Year ◆ End Year * No Data

Norway lobster Smalls (FU 22) [NEPHFU22]

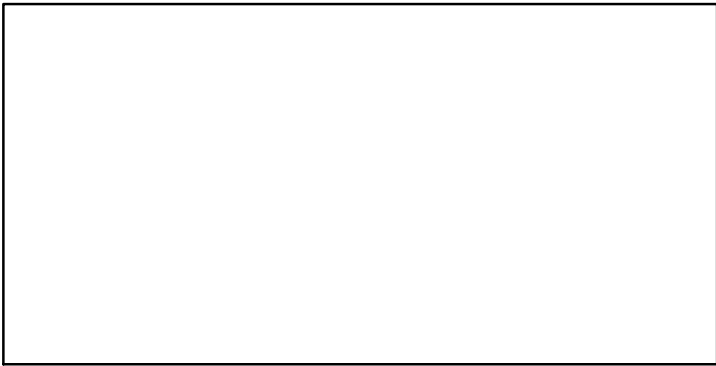
TB*



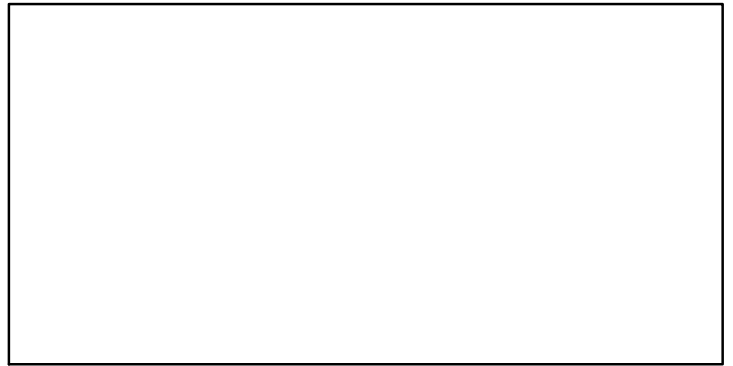
SSB*



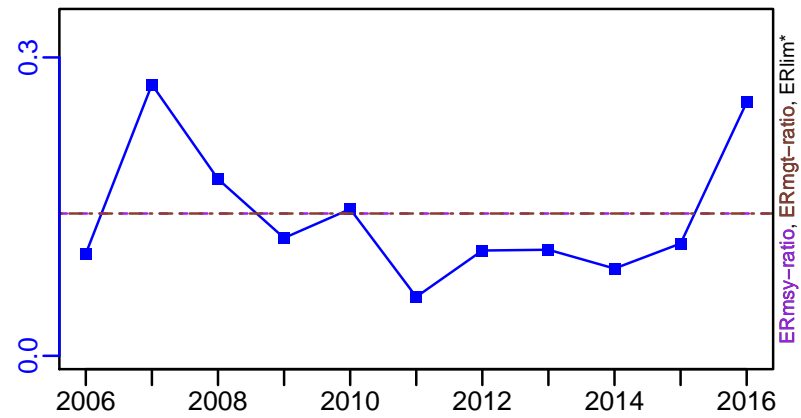
TN *



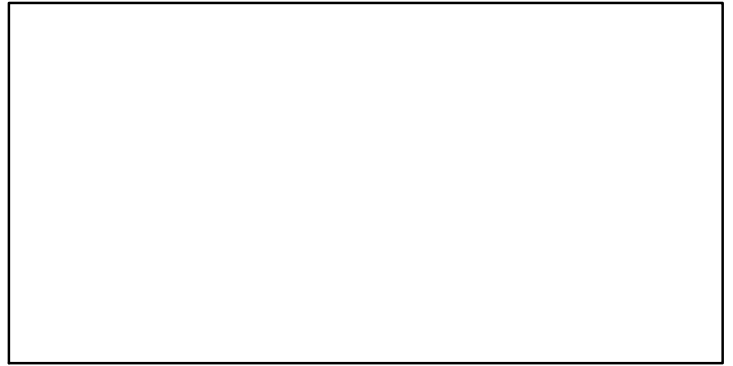
F*



ER-ratio (1999–2016–ICESIMP2018)



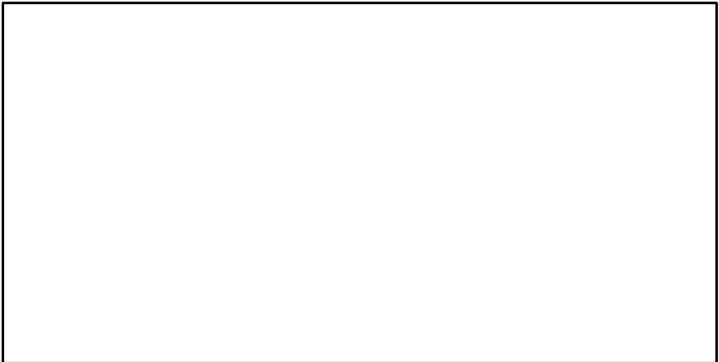
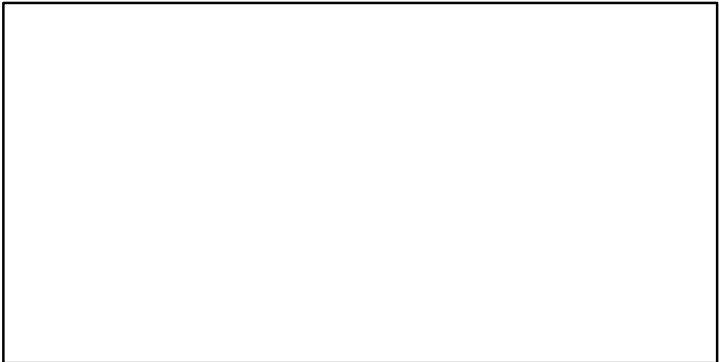
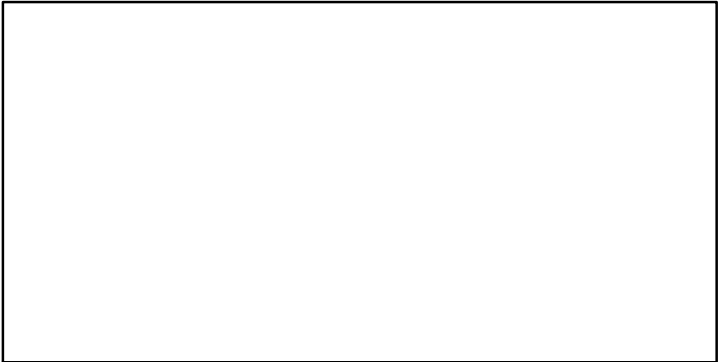
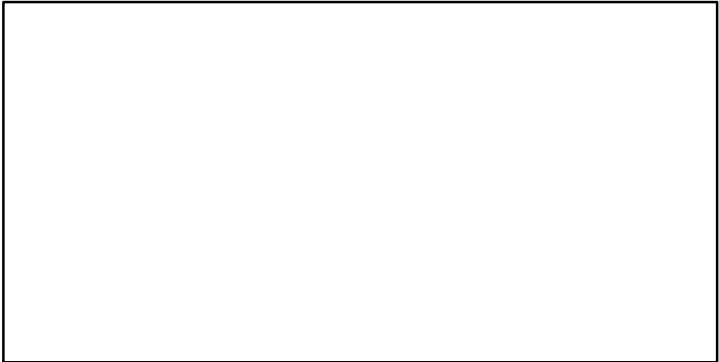
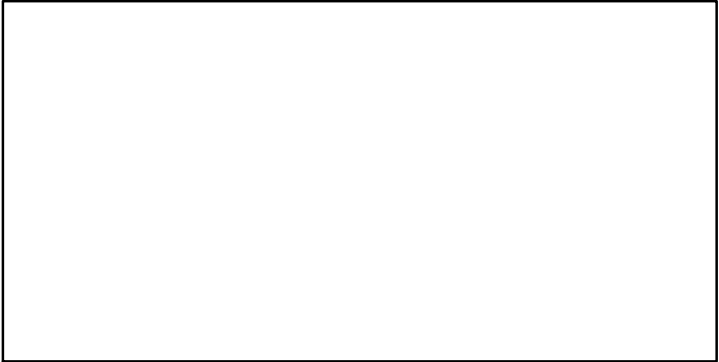
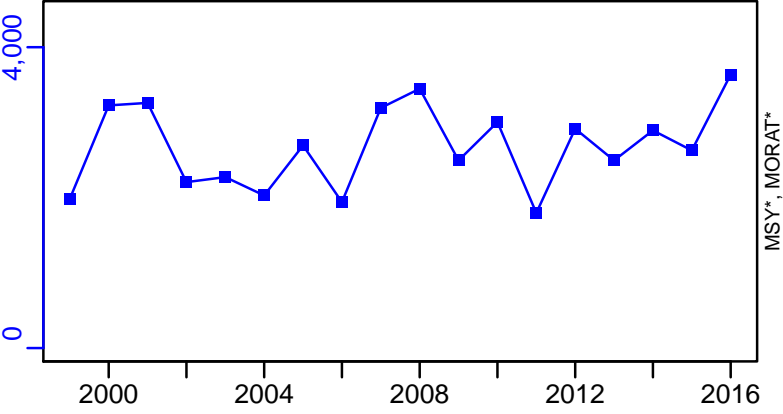
Recruits*



Norway lobster Smalls (FU 22) [NEPHFU22]

TL-MT, TC*, RecC* (1999–2016–ICESIMP2018)

TAC*, Cpair*, Cadv*



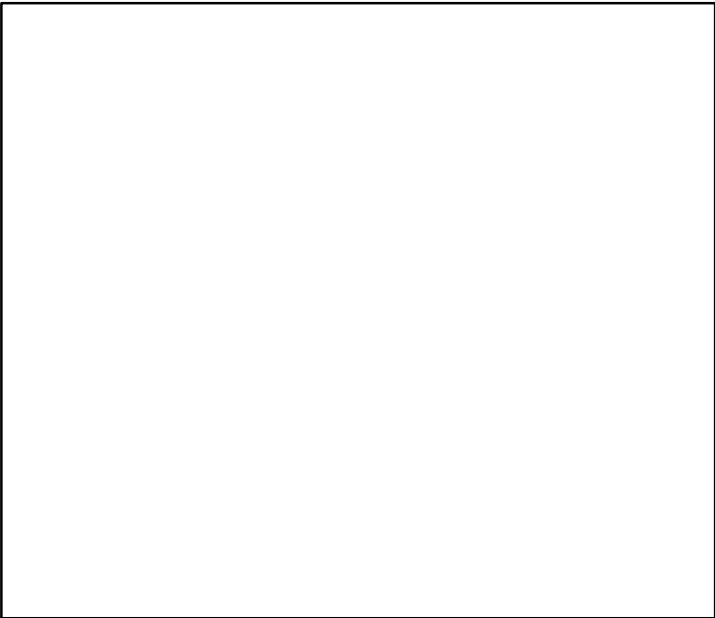
Norway lobster North Galicia (FU 25) [NEPHFU25]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU25-1975-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	14		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

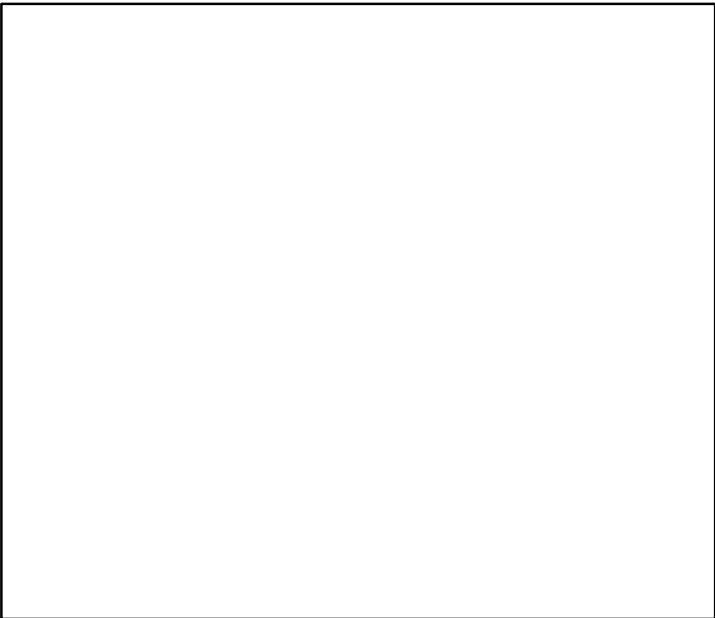
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster North Galicia (FU 25) [NEPHFU25]

TB*



SSB*



TN *



F*



ER*

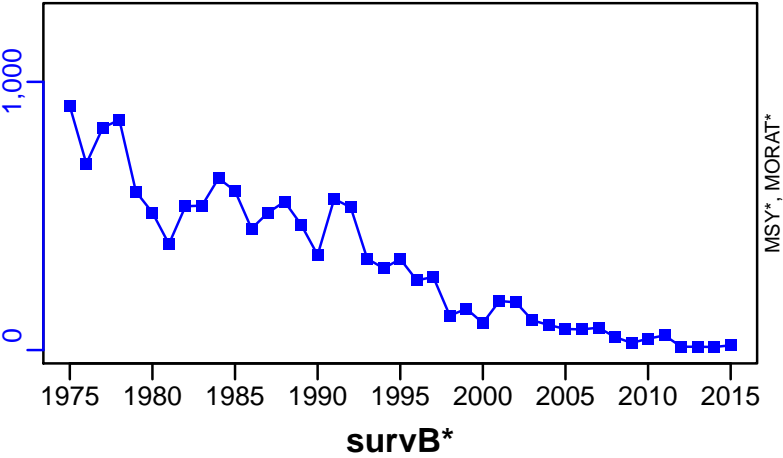


Recruits*

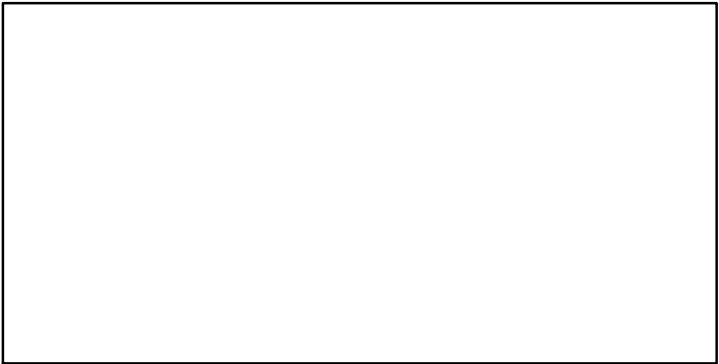


Norway lobster North Galicia (FU 25) [NEPHFU25]

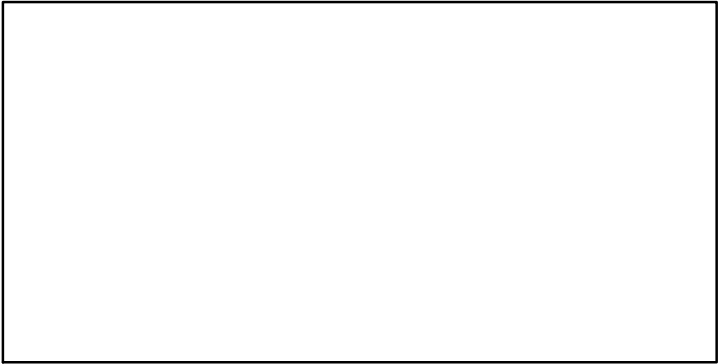
TL-MT, TC*, RecC* (1975–2016–ICESIMP2016)



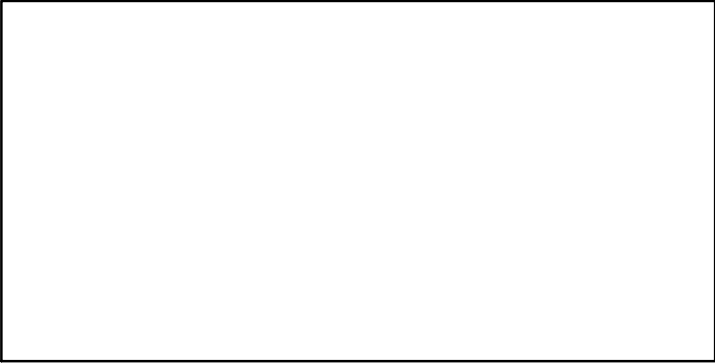
TAC*, Cpair*, Cadv*



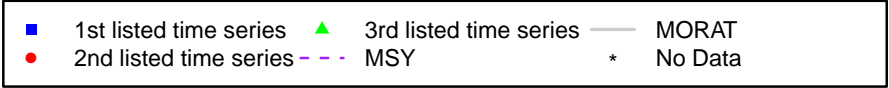
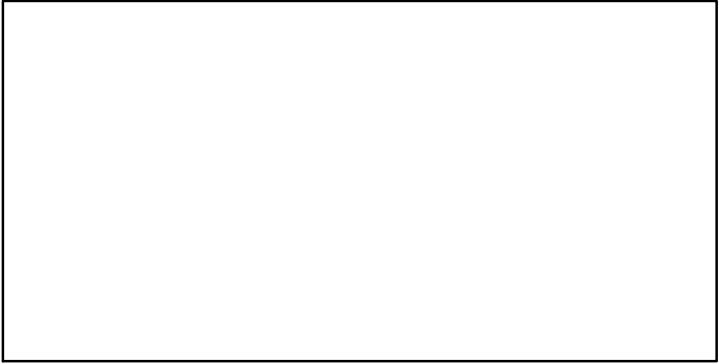
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2627-1975-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	1.53		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

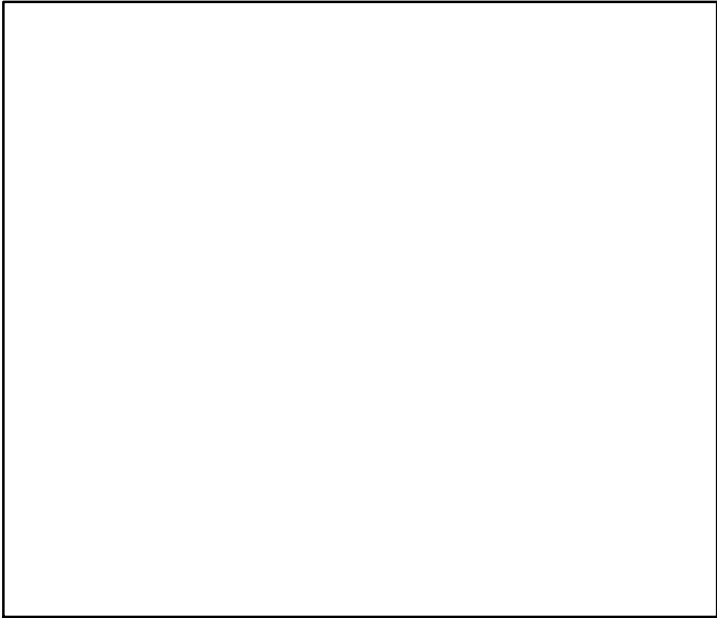
Kobe MSY*



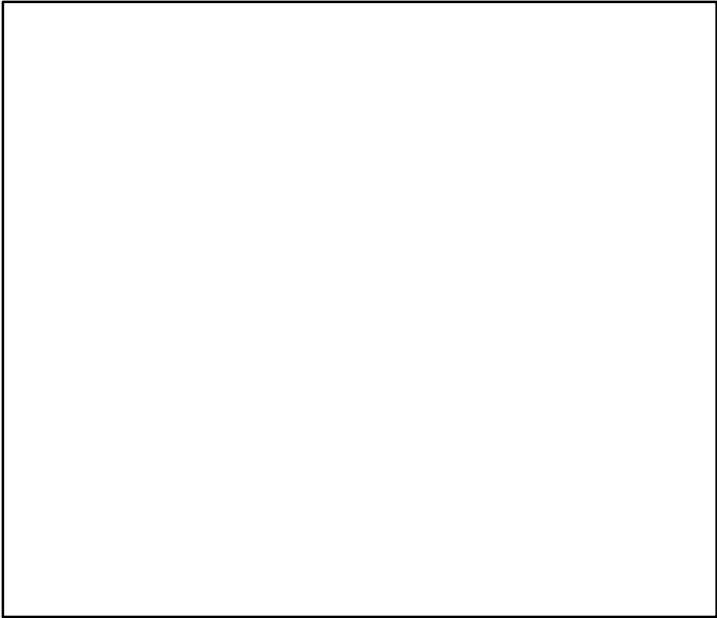
Kobe MGT*



Spawner Recruit*



Production*

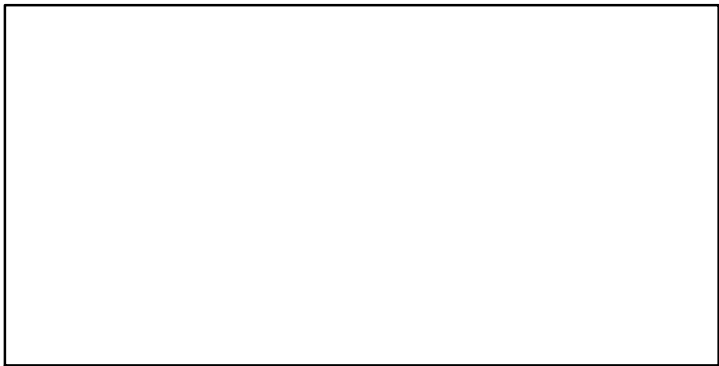


◆ Start Year ◆ End Year * No Data

TB*



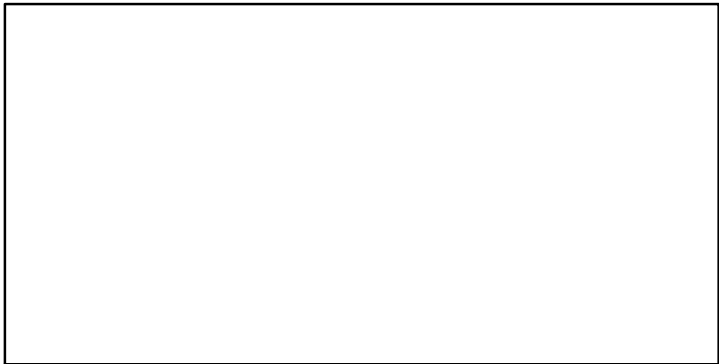
SSB*



TN *



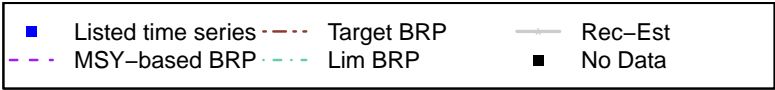
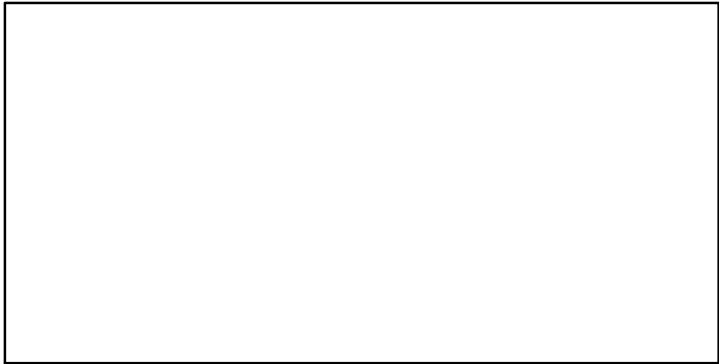
F*



ER*

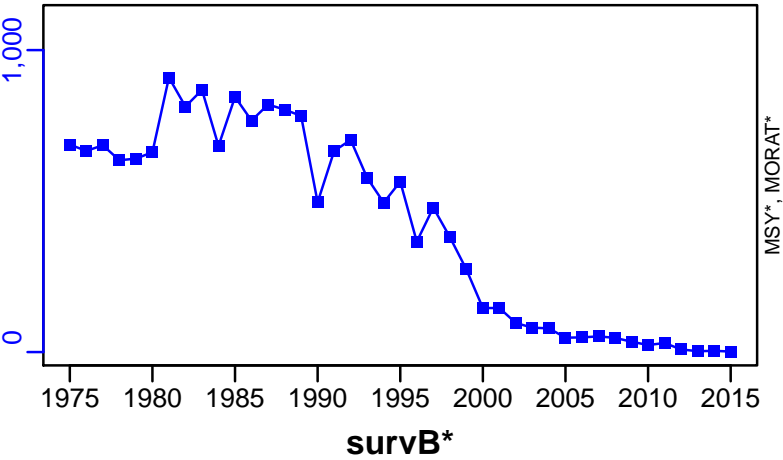


Recruits*



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

TL–MT, TC*, RecC* (1975–2016–ICESIMP2016)



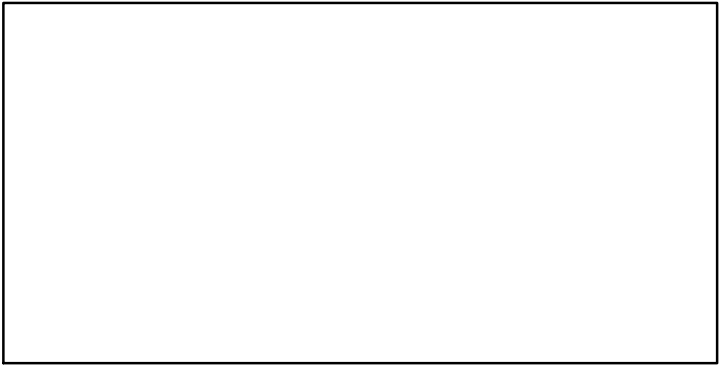
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

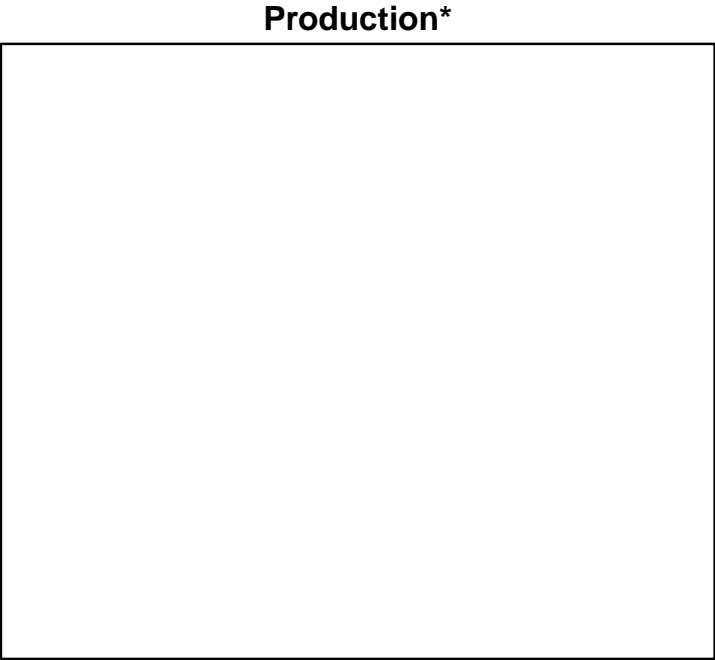
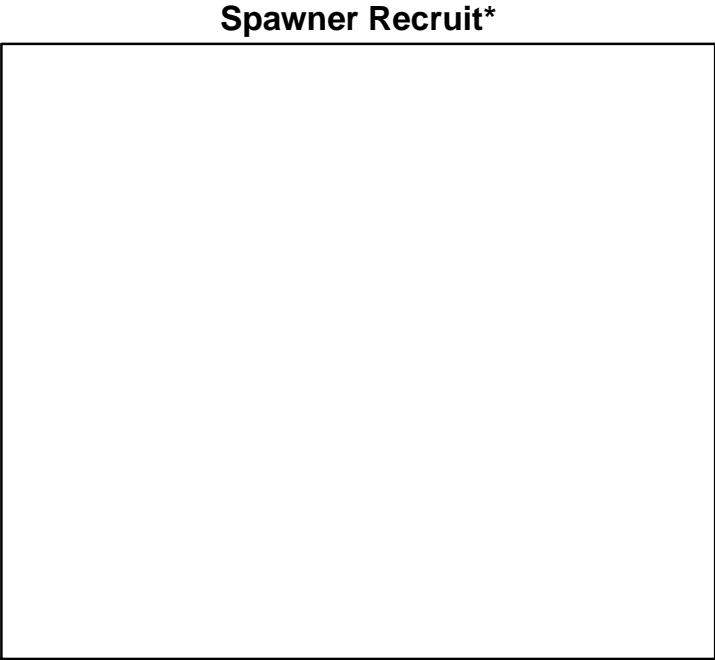
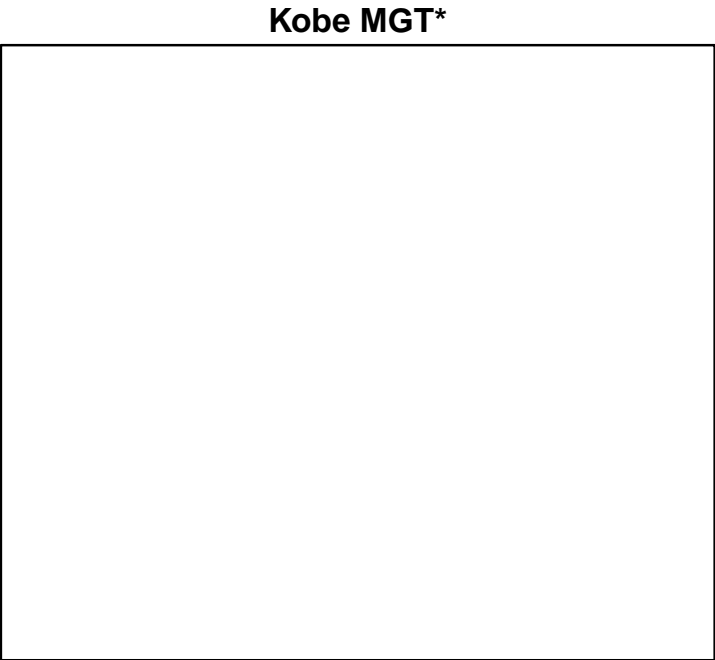
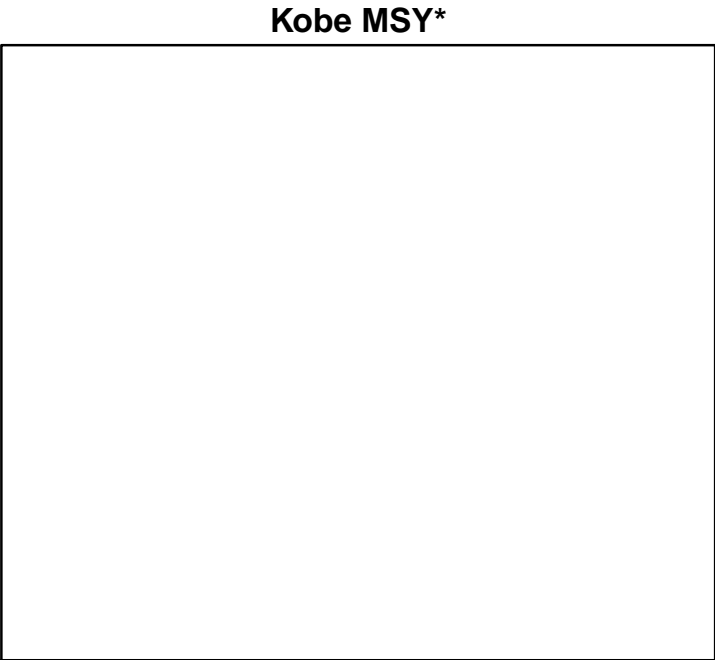


Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2829-1984-2016-ICESIMP2018
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

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	-	-	-

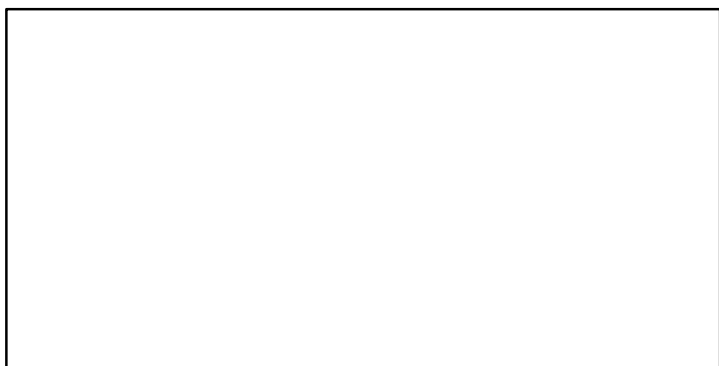
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.099	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	235		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.449		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ♦ End Year * No Data

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

TB*



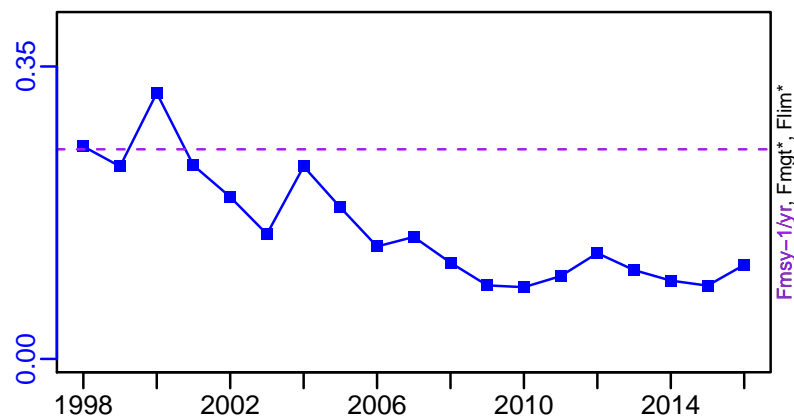
SSB*



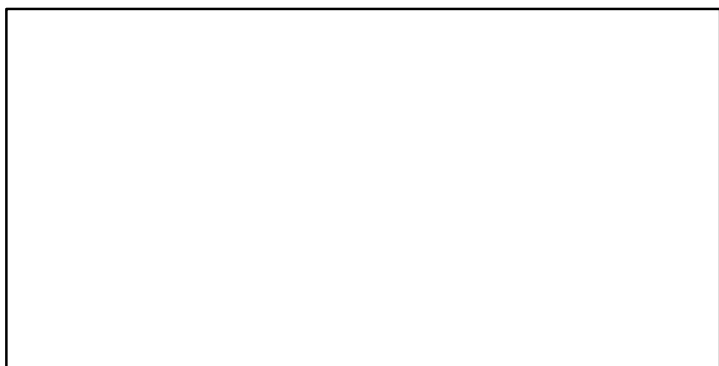
TN *



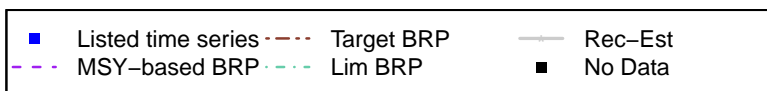
F-1/yr (1984-2016-ICESIMP2018)



ER*

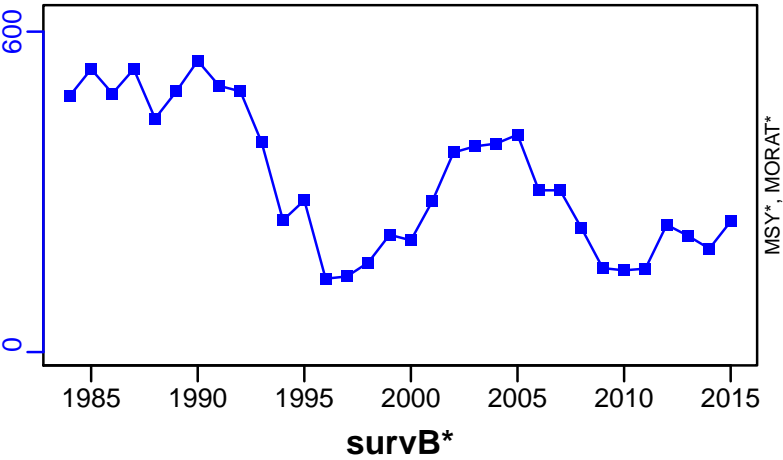


Recruits*



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

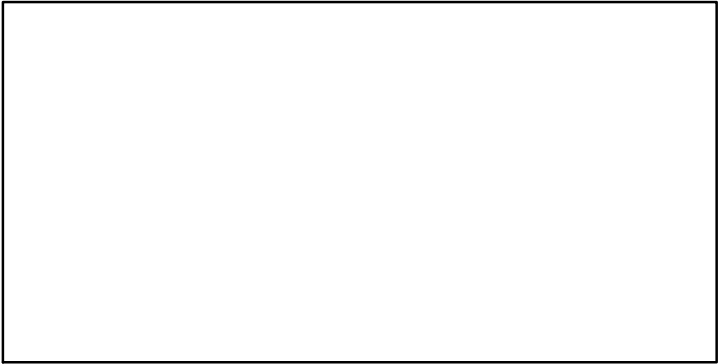
TL-MT, TC*, RecC* (1984-2016-ICESIMP2016)



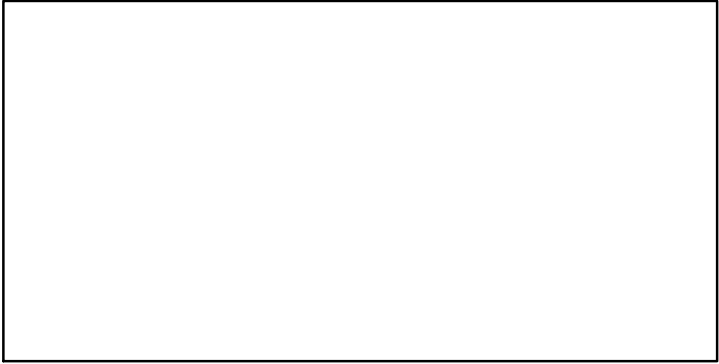
TAC*, Cpair*, Cadv*



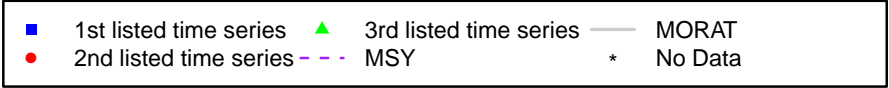
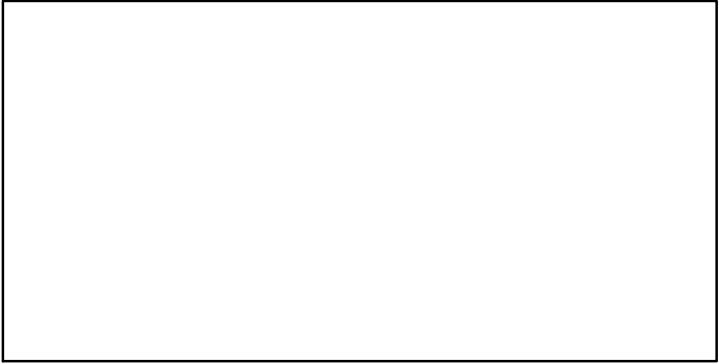
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU30-1994-2017-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2017	0.023	-	-
TC	-	-	-		
TL	TL-MT	2017	124		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

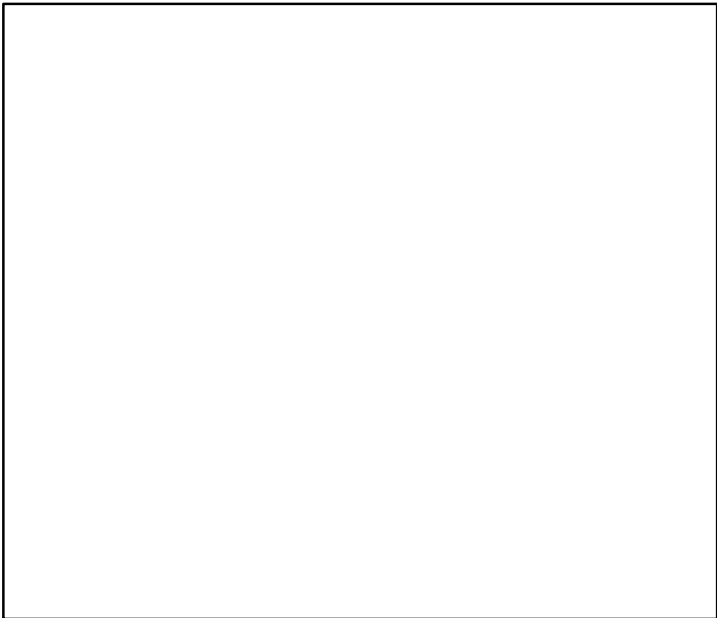
Kobe MSY*



Kobe MGT*



Spawner Recruit*



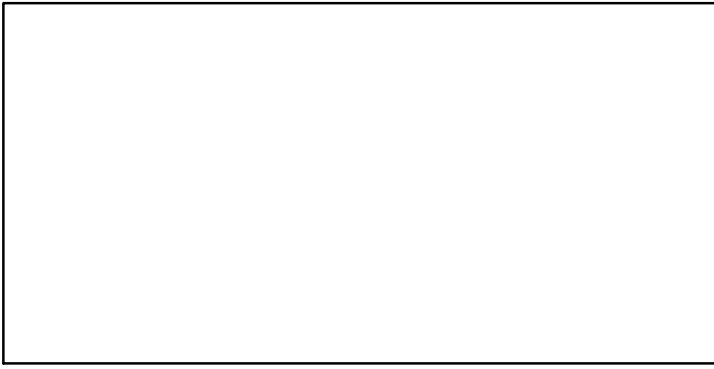
Production*



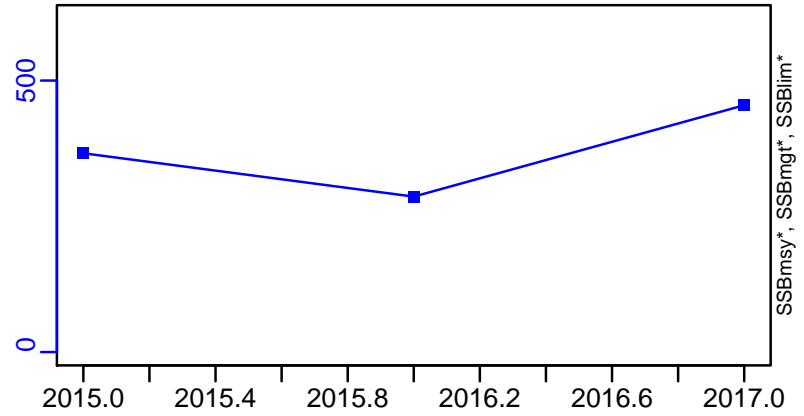
◆ Start Year ◆ End Year * No Data

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

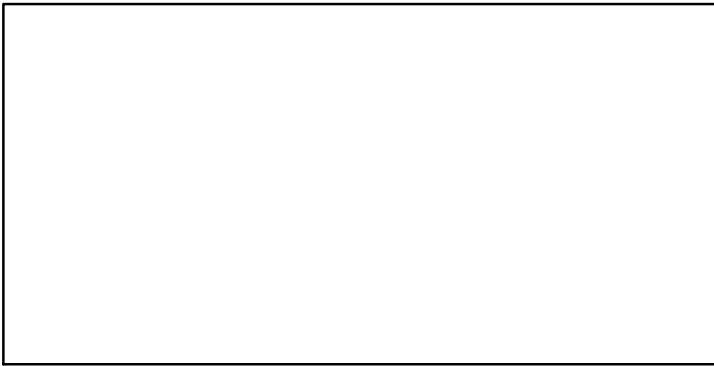
TB*



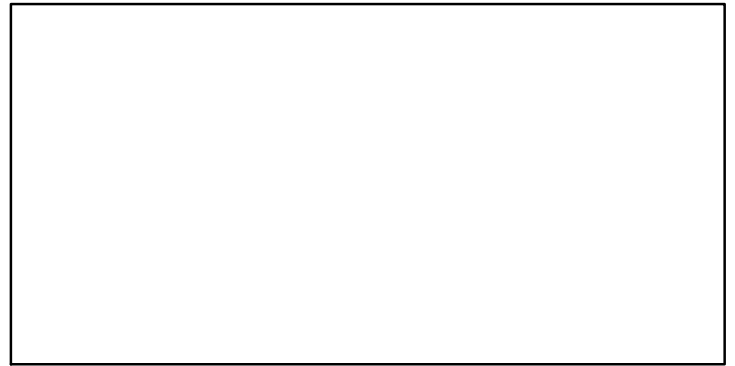
SSB-E00 (1994–2017–ICESIMP2018)



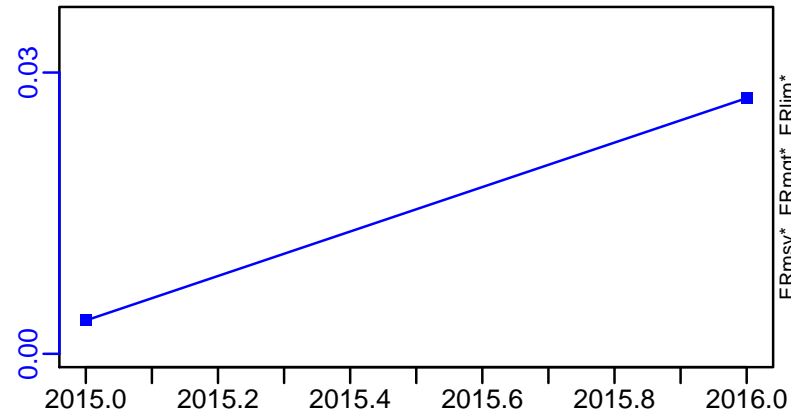
TN *



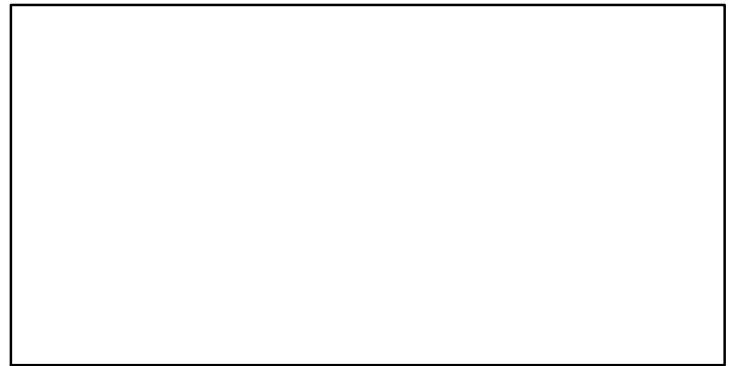
F*



ER-ratio (1994–2017–ICESIMP2018)



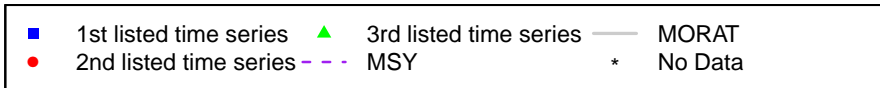
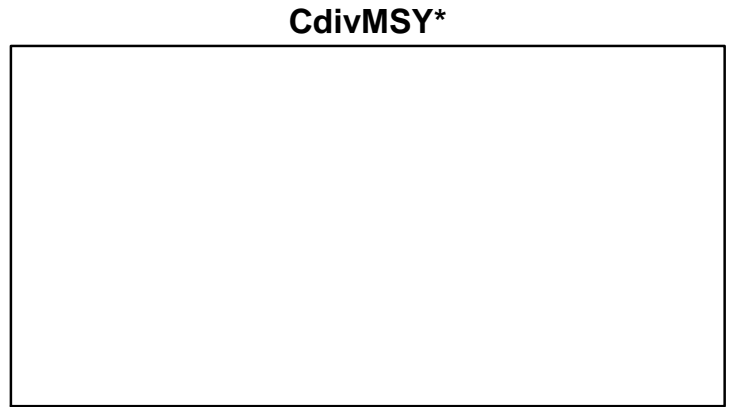
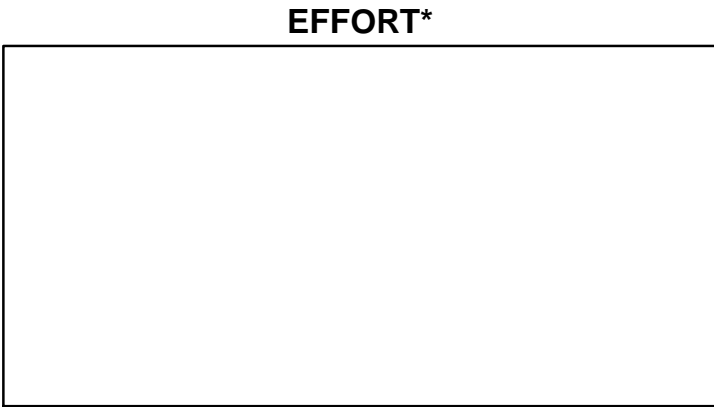
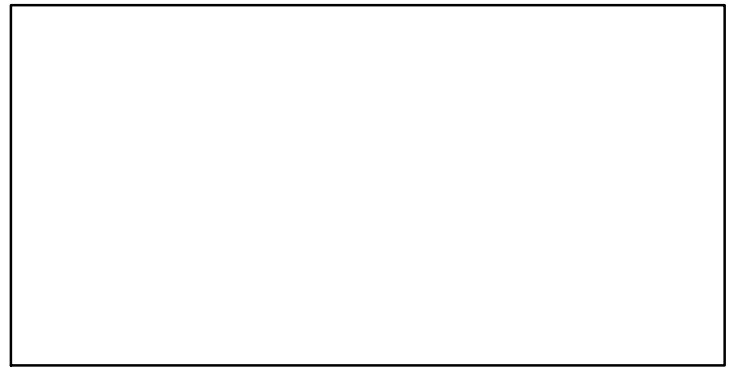
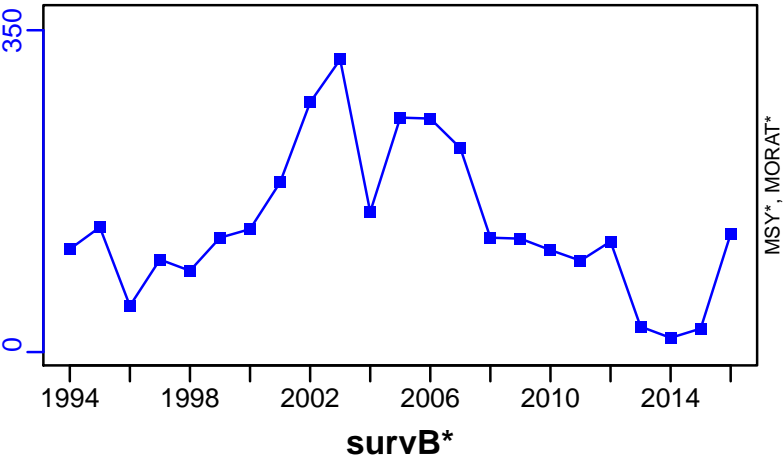
Recruits*



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

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

TAC*, Cpair*, Cadv*



Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU31-1983-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	4.26		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

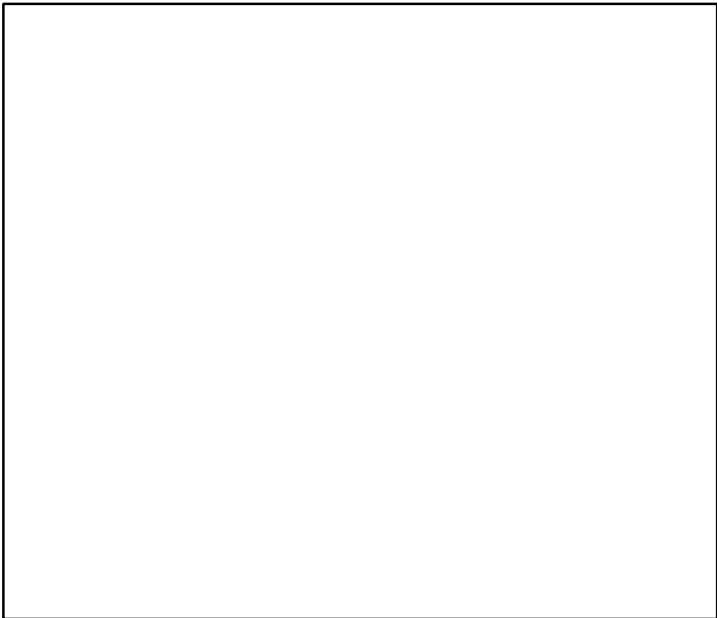
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

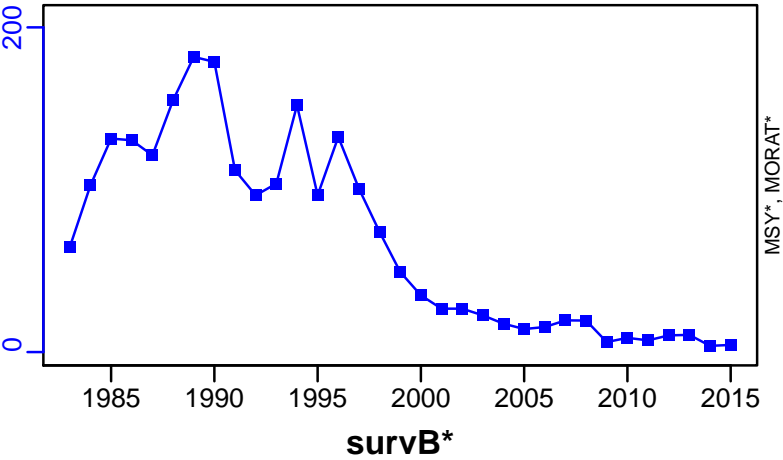


Recruits*



Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

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



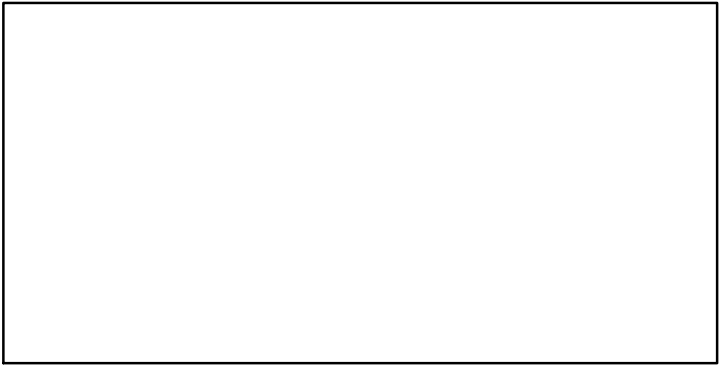
TAC*, Cpair*, Cadv*



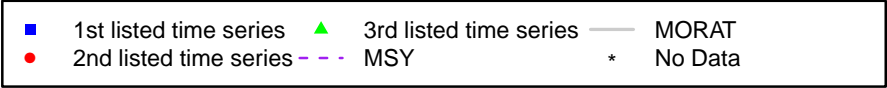
CPUE*



EFFORT*



CdivMSY*



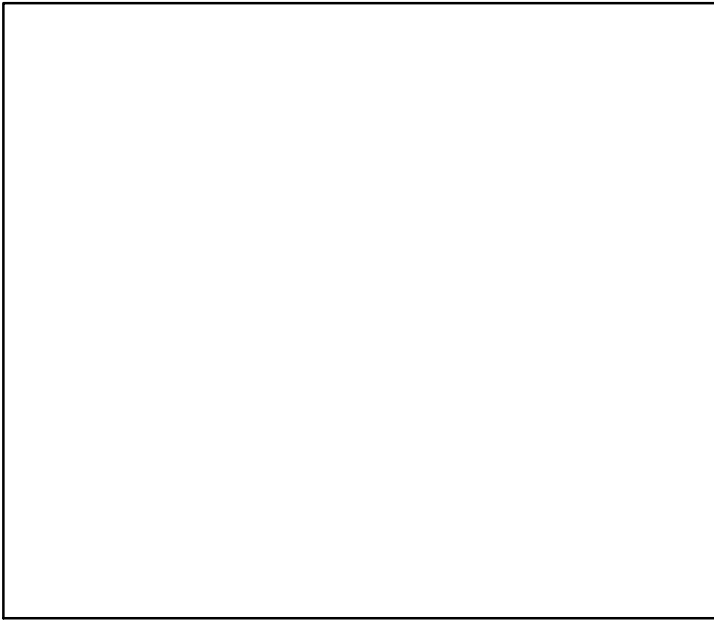
Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU32-1987-2017-ICESIMP2018
Area	Norwegian Deeps (FU 32)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017

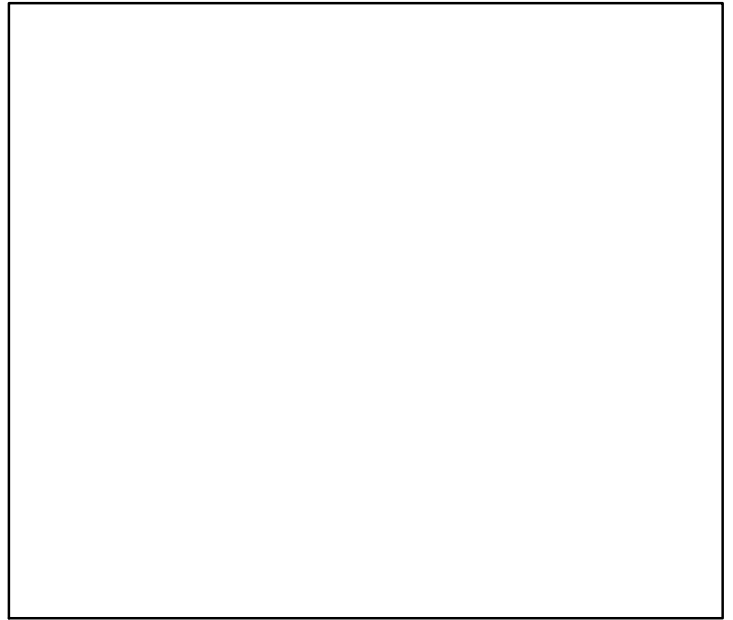
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	198		
TL	TL-MT	2017	53		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

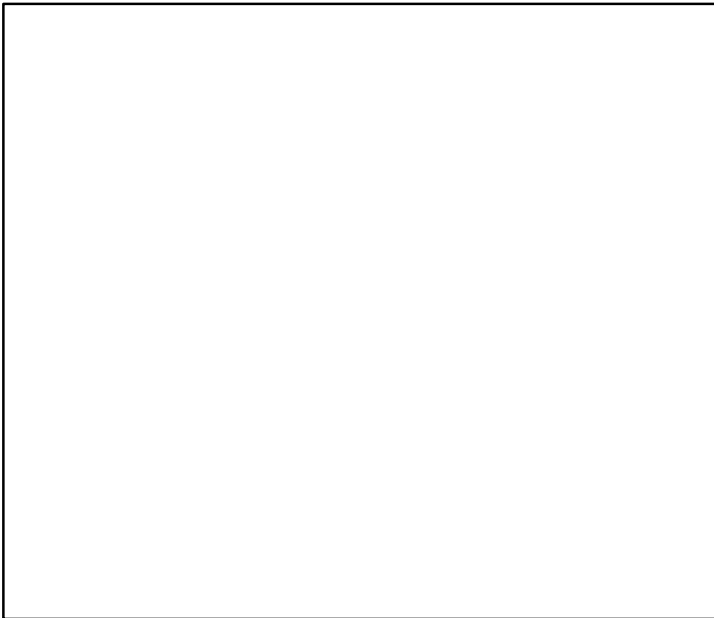
Kobe MSY*



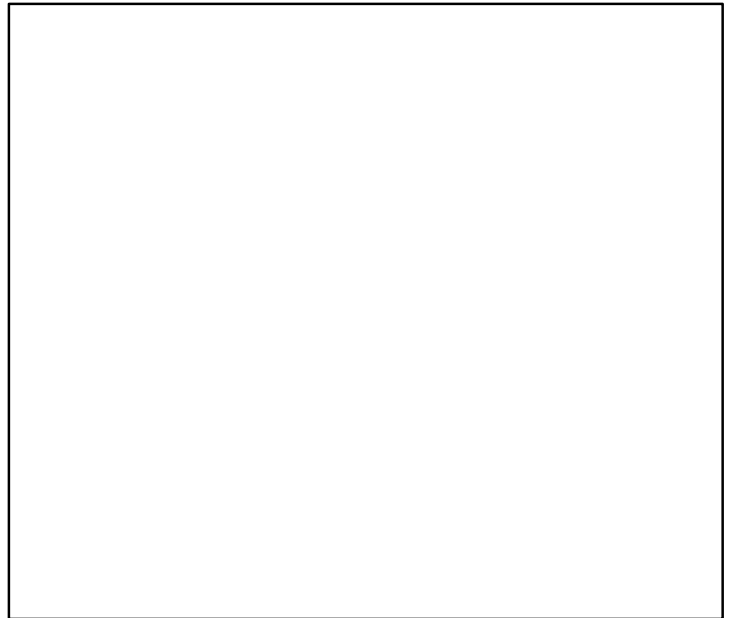
Kobe MGT*



Spawner Recruit*



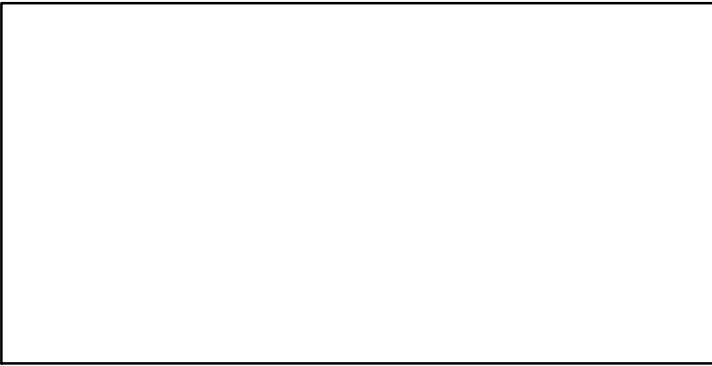
Production*



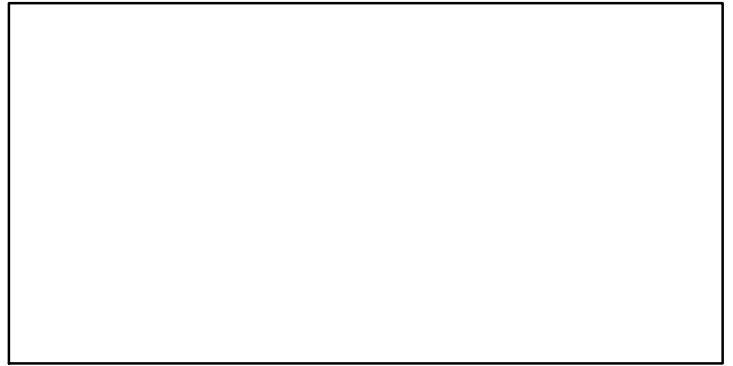
◆ Start Year	◆ End Year	* No Data
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Norway lobster Norwegian Deepse (FU 32) [NEPHFU32]

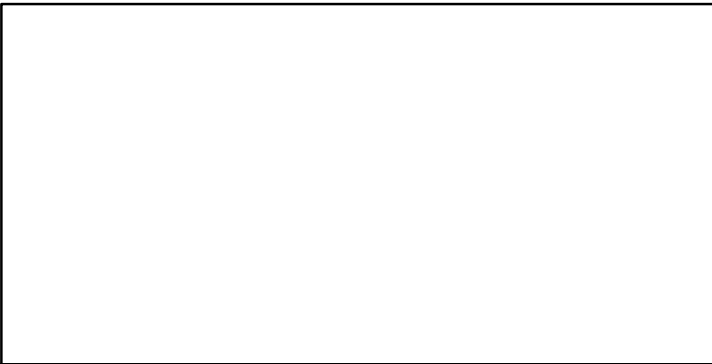
TB*



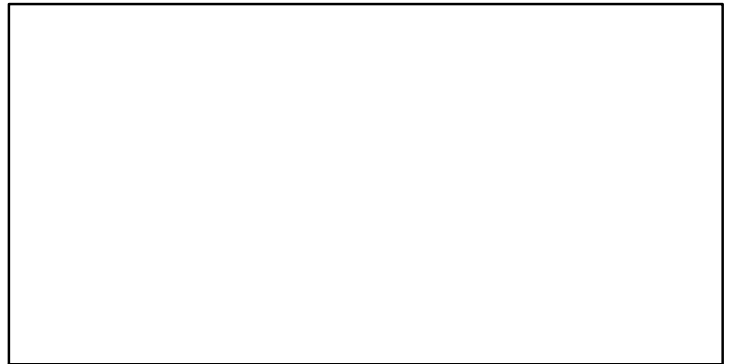
SSB*



TN *



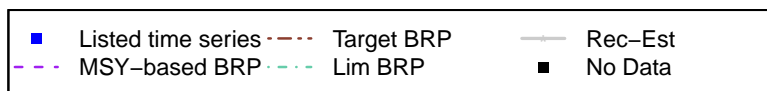
F*



ER*

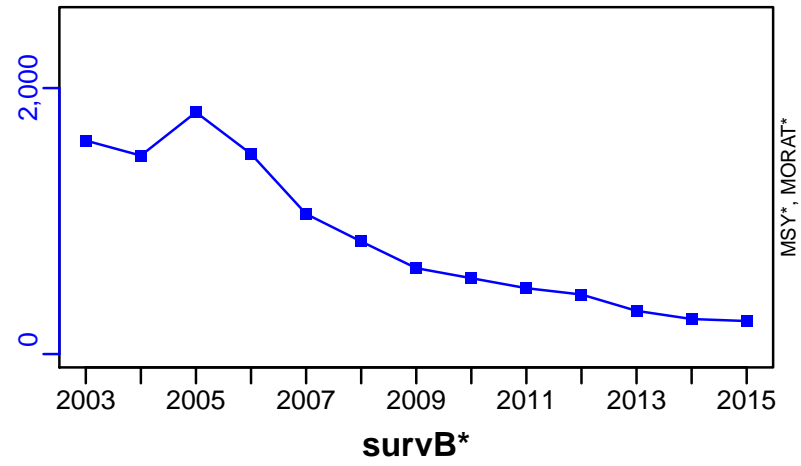


Recruits*

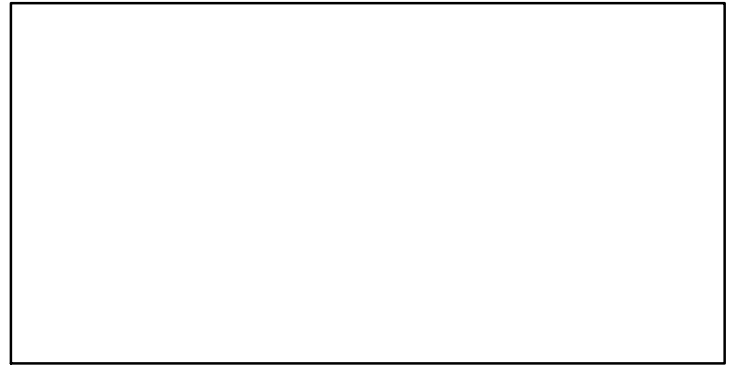


Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

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



TAC*, Cpair*, Cadv*



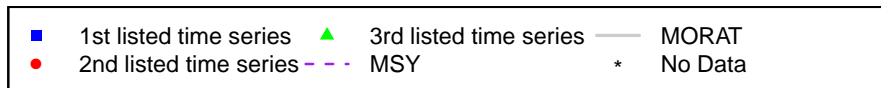
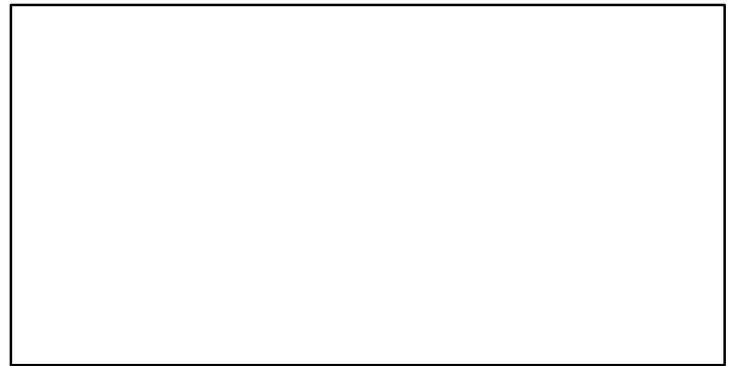
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU33-1993-2017-ICESIMP2018
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

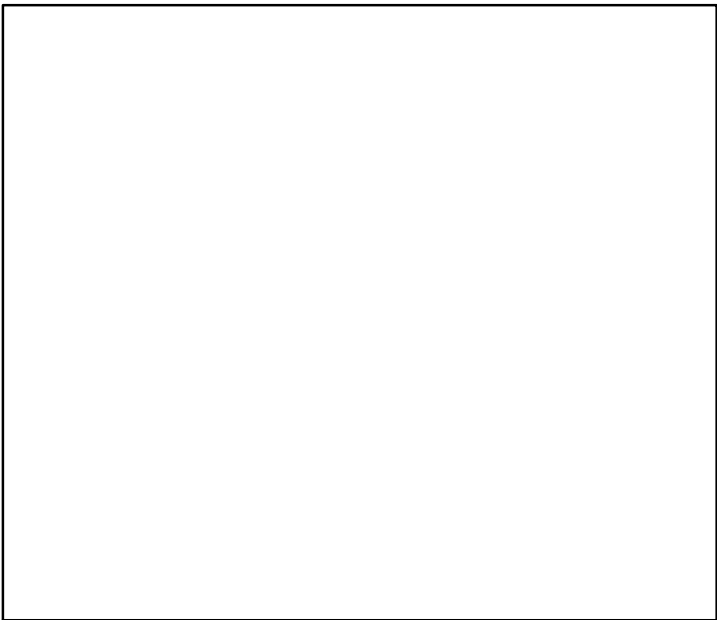
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	1470		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

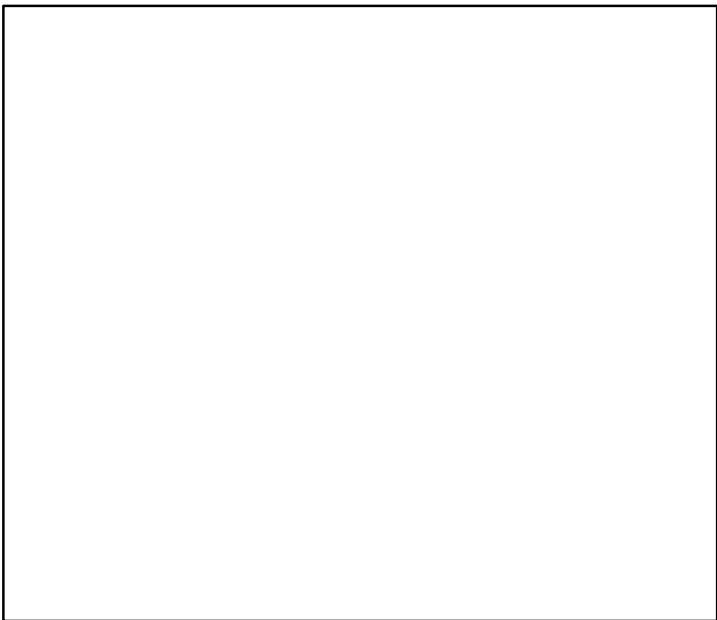
Kobe MSY*



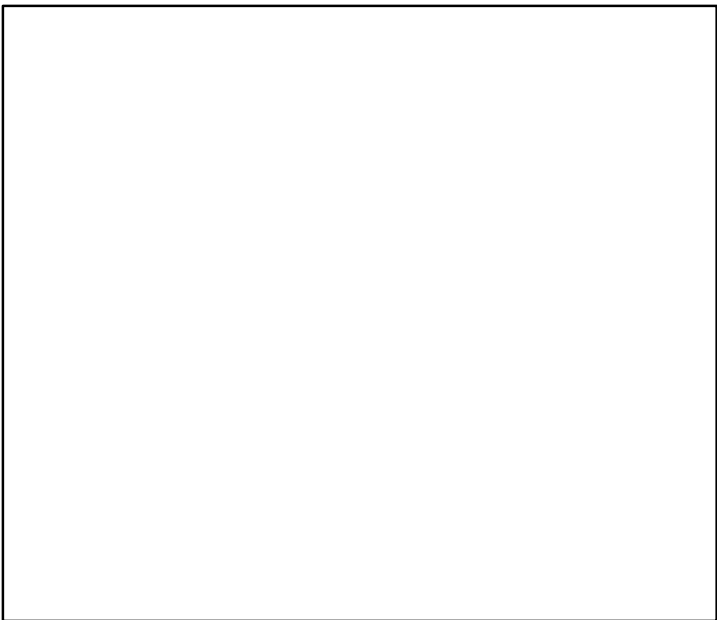
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

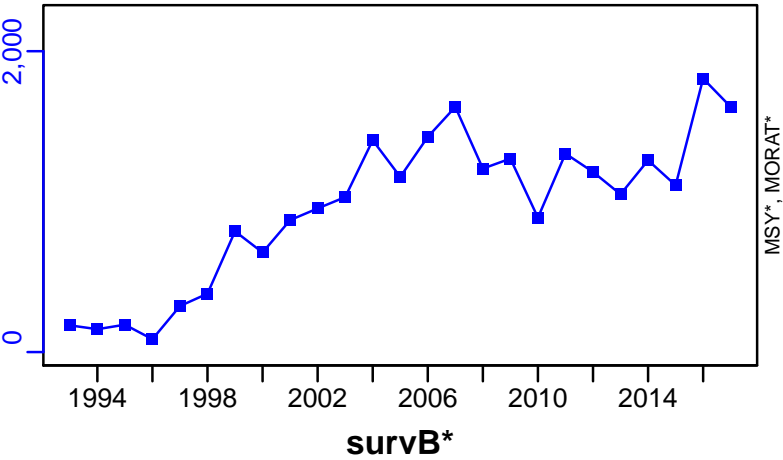


Recruits*



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

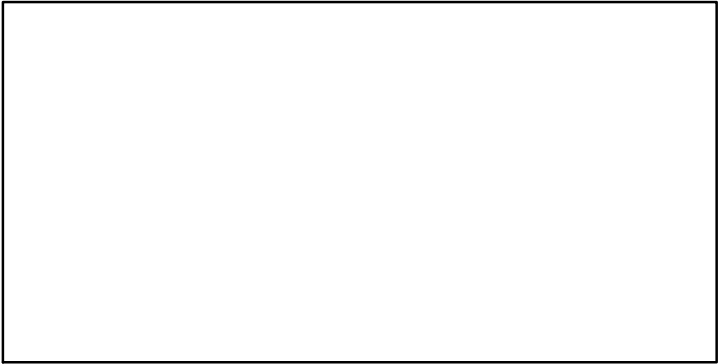
TL-MT, TC*, RecC* (1993–2017–ICESIMP2018)



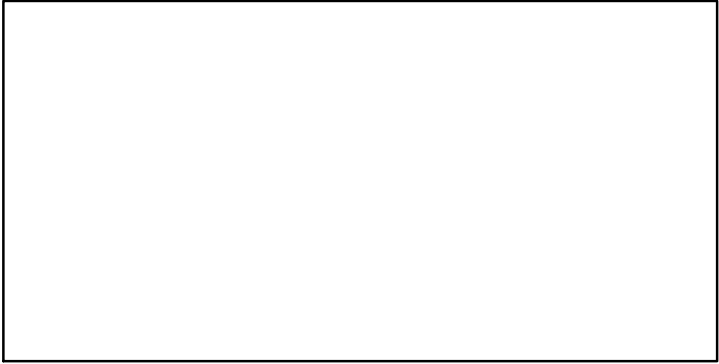
TAC*, Cpair*, Cadv*



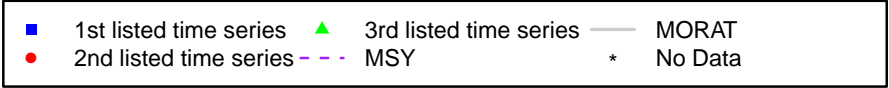
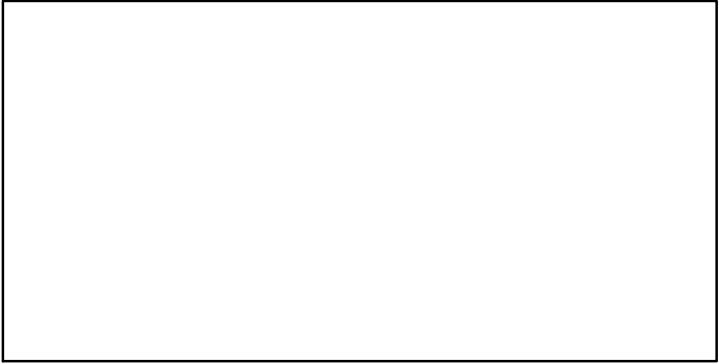
CPUE*



EFFORT*



CdivMSY*



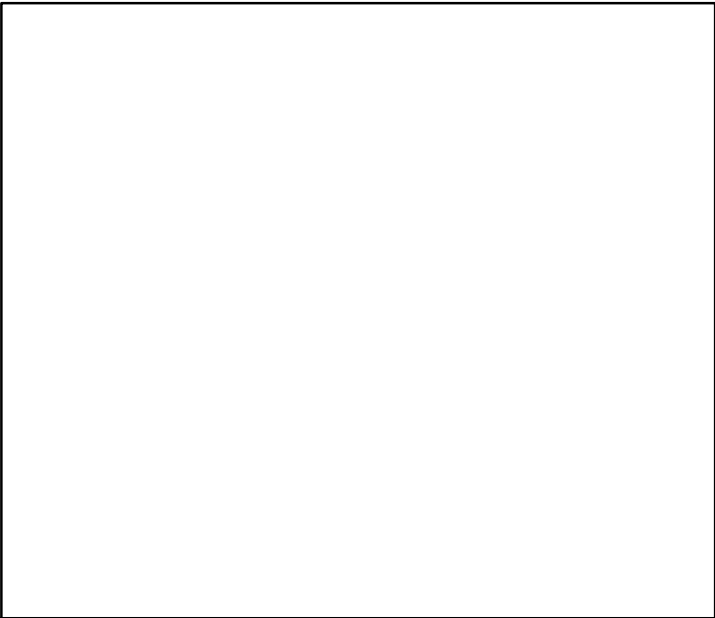
Norway lobster Devil's Hole (FU 34) [NEPHFU34]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU34-2003-2017-ICESIMP2018
Area	Devil's Hole (FU 34)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017

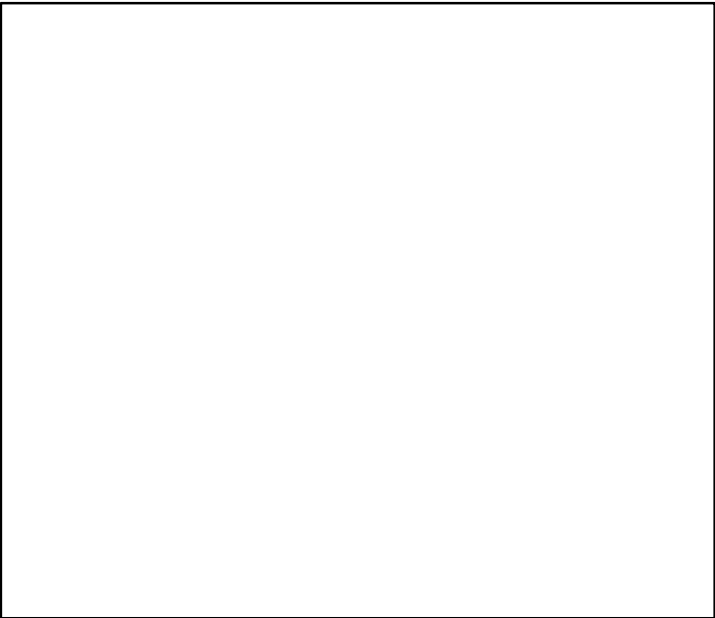
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	550		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

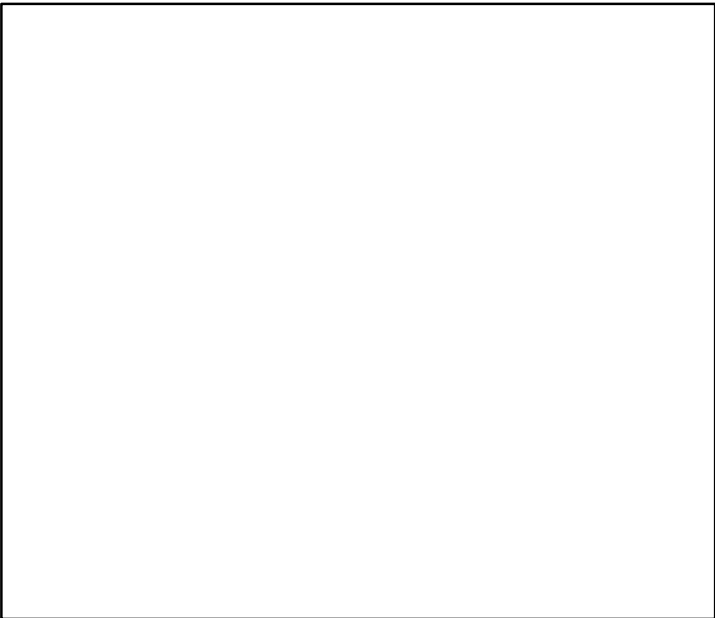
Kobe MSY*



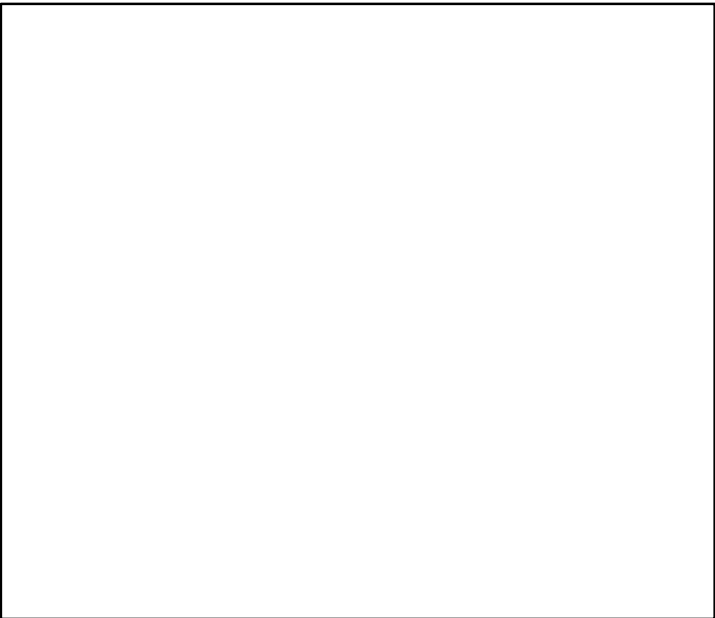
Kobe MGT*



Spawner Recruit*



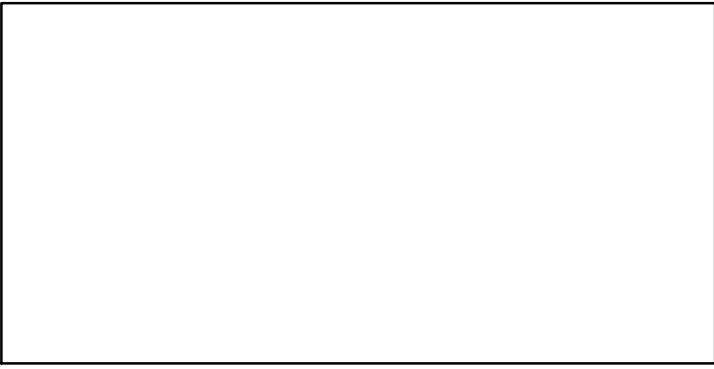
Production*



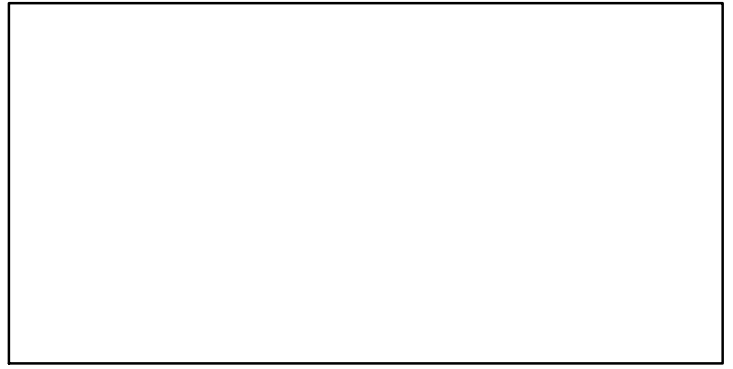
◆ Start Year ◆ End Year * No Data

Norway lobster Devil's Hole (FU 34) [NEPHFU34]

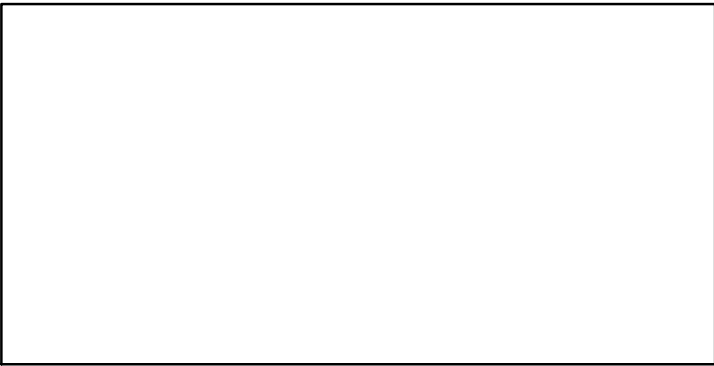
TB*



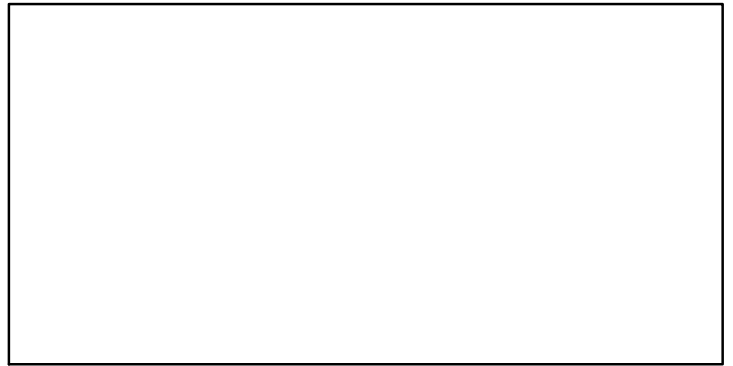
SSB*



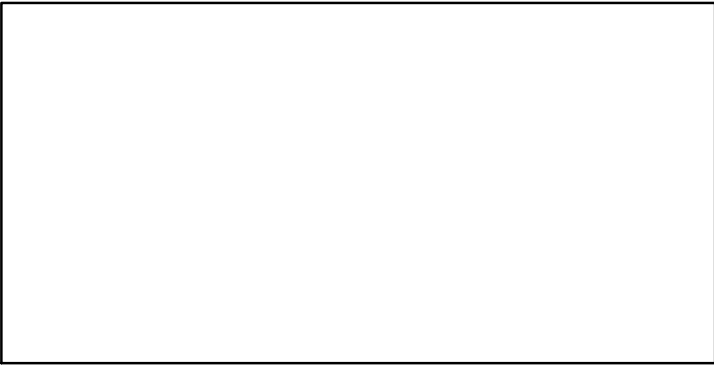
TN *



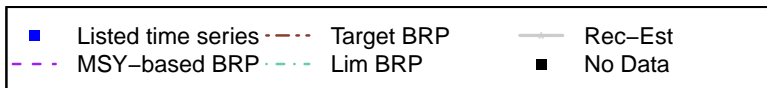
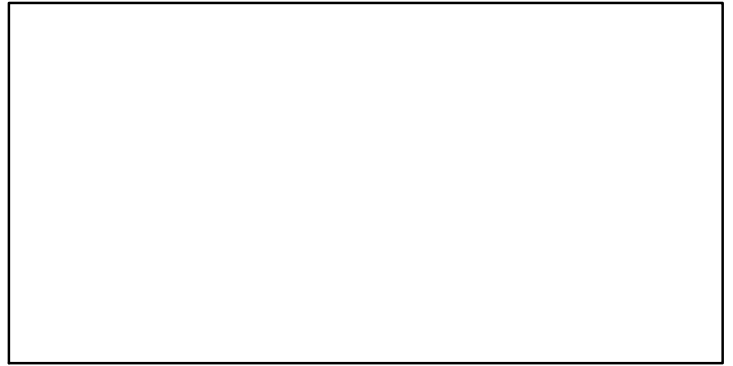
F*



ER*

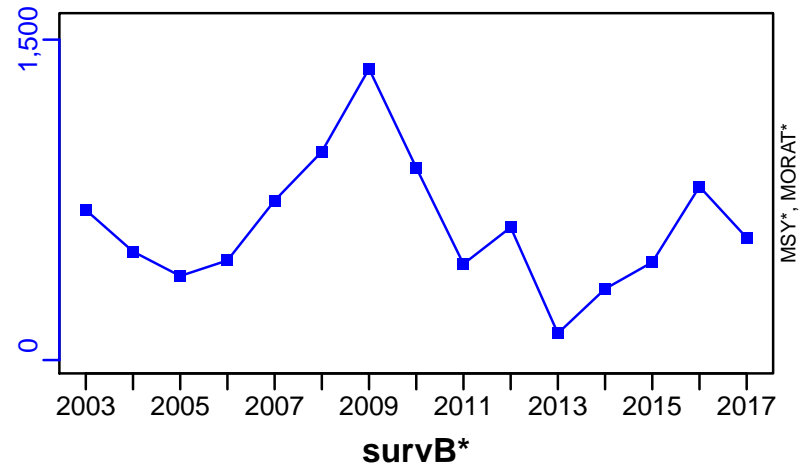


Recruits*

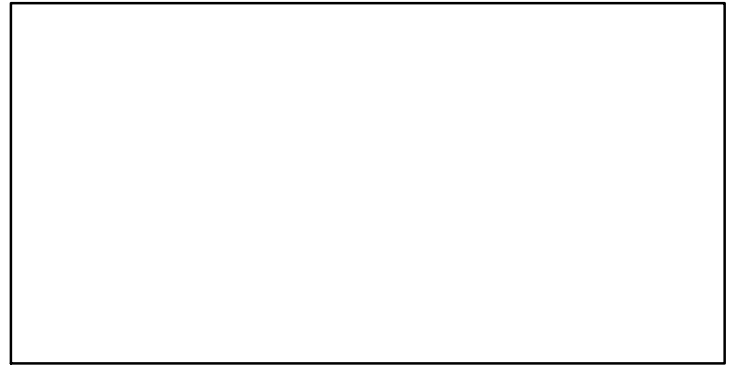


Norway lobster Devil's Hole (FU 34) [NEPHFU34]

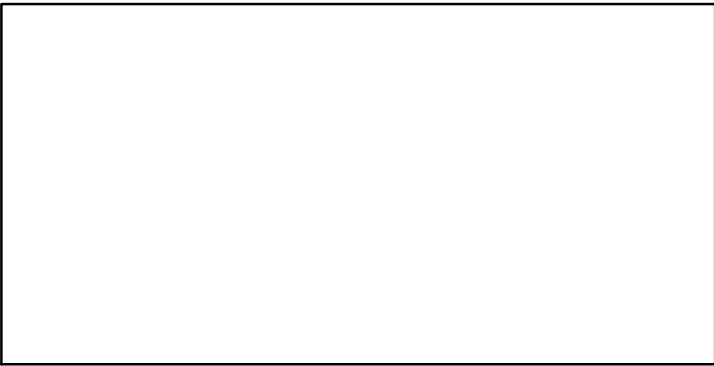
TL-MT, TC*, RecC* (2003–2017–ICESIMP2018)



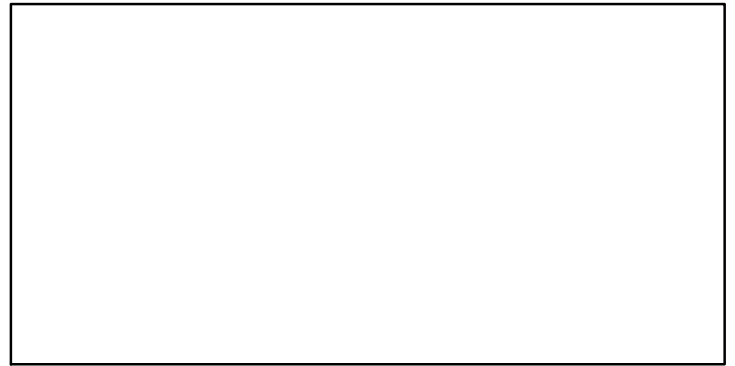
TAC*, Cpair*, Cadv*



survB*



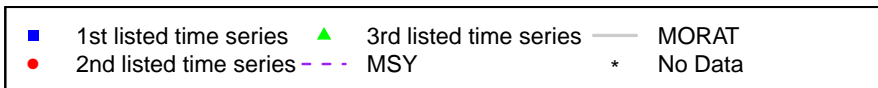
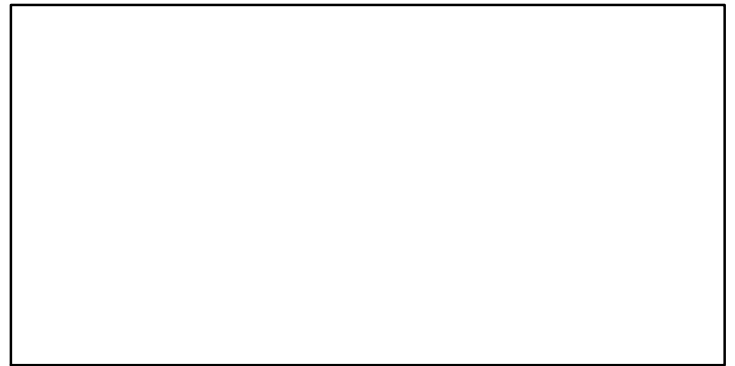
CPUE*



EFFORT*



CdivMSY*



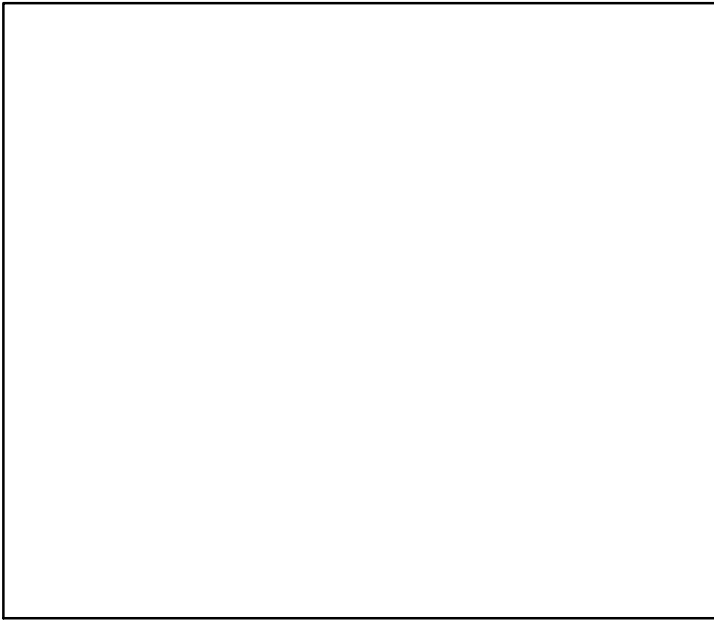
Norway lobster Skagerak Kattegat (FU 3-4) [NEPHFU3-4]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU3-4-1960-2017-ICESIMP2018
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, 2015

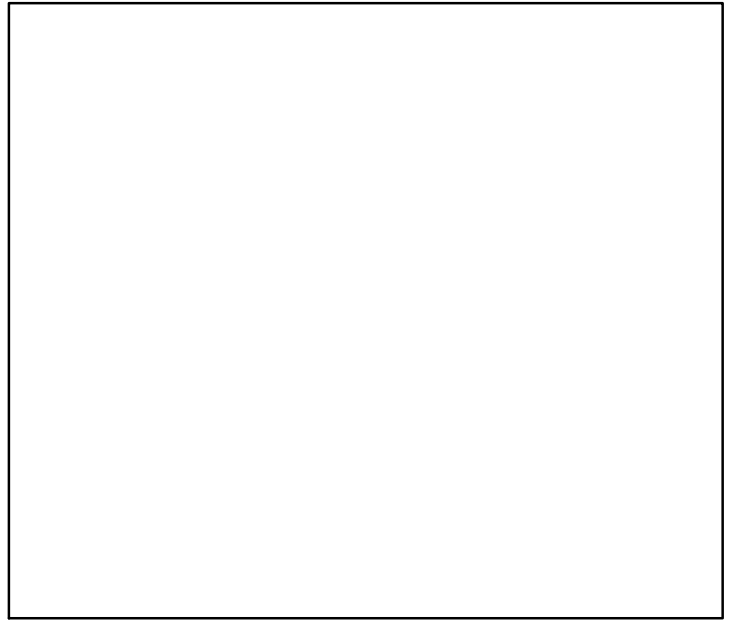
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.079
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.079
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.031	-	-
TC	TC-MT	2017	6230		
TL	TL-MT	2017	5210		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.389		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

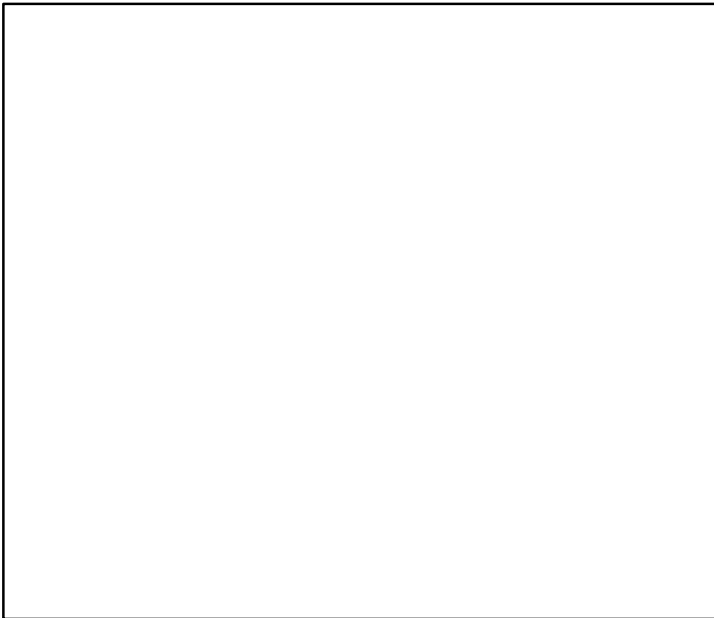
Kobe MSY*



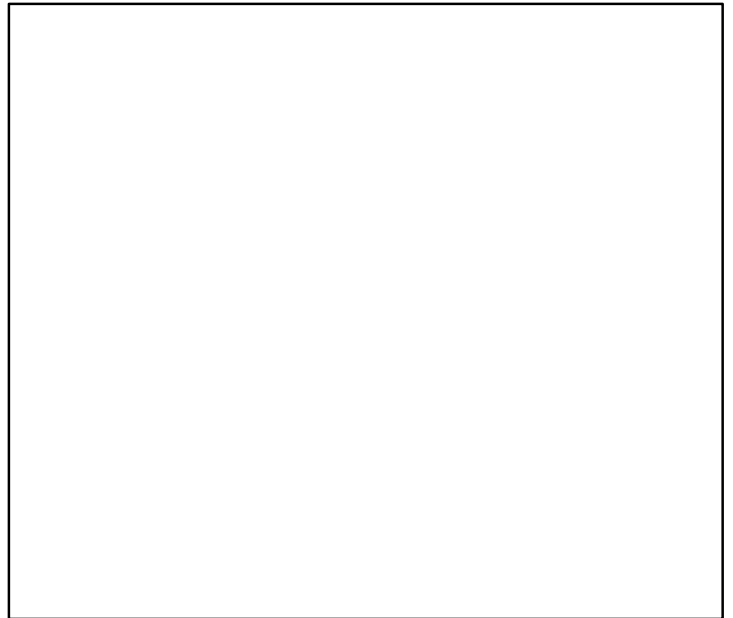
Kobe MGT*



Spawner Recruit*



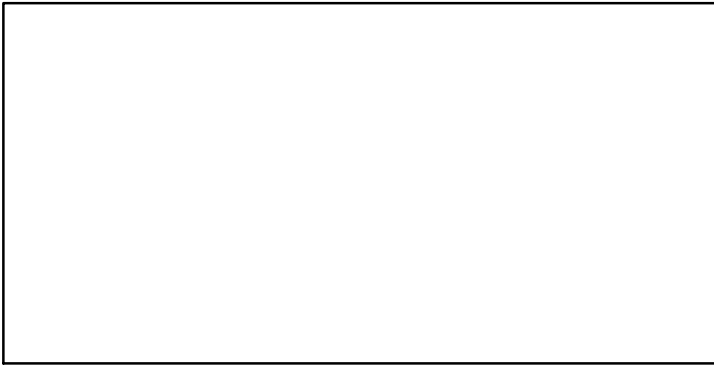
Production*



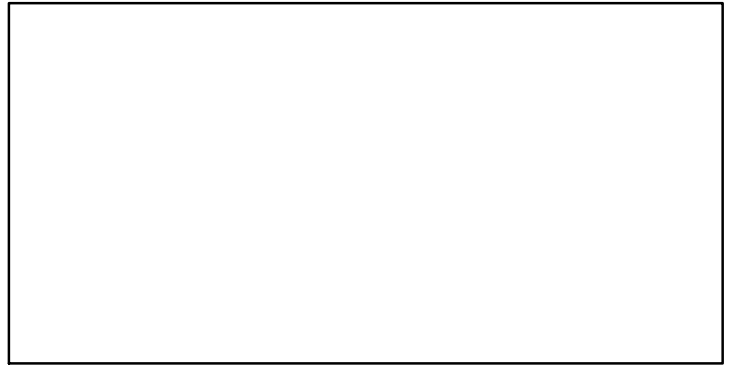
◆ Start Year ◆ End Year * No Data

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

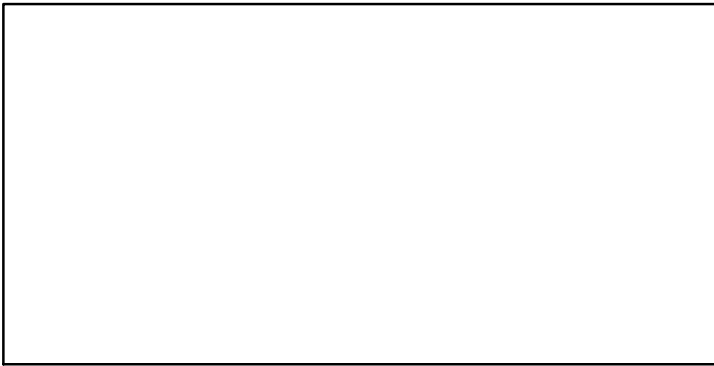
TB*



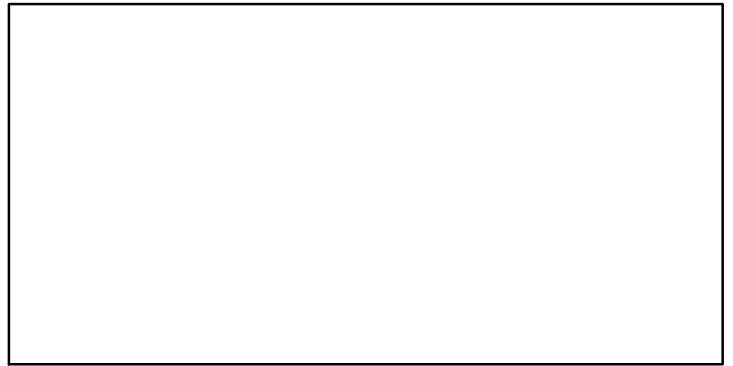
SSB*



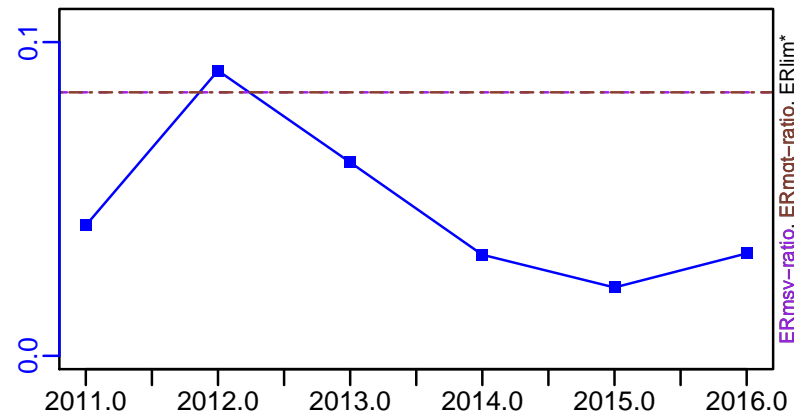
TN *



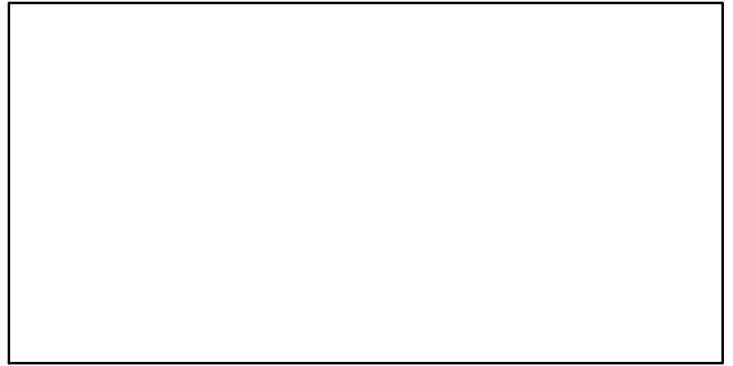
F*



ER-ratio (1960–2016–ICESIMP2018)

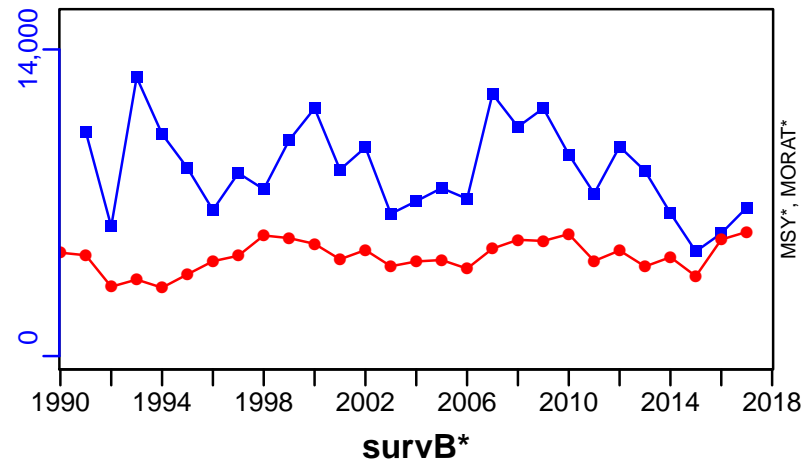


Recruits*

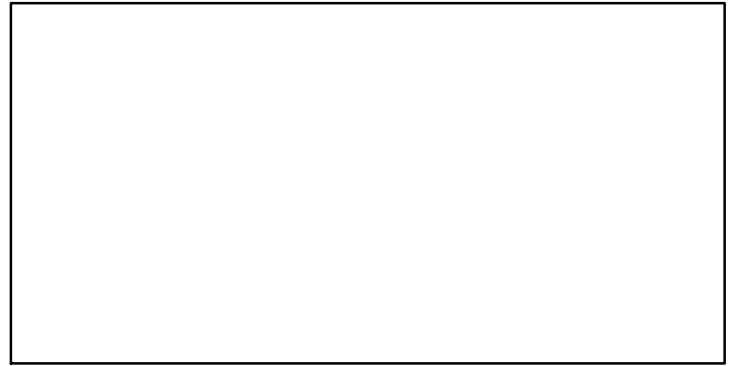


Norway lobster Skagerak Kattegat (FU 3–4) [NEPHFU3–4]

TC–MT, TL–MT, RecC* (1960–2017–ICESIMP2018)



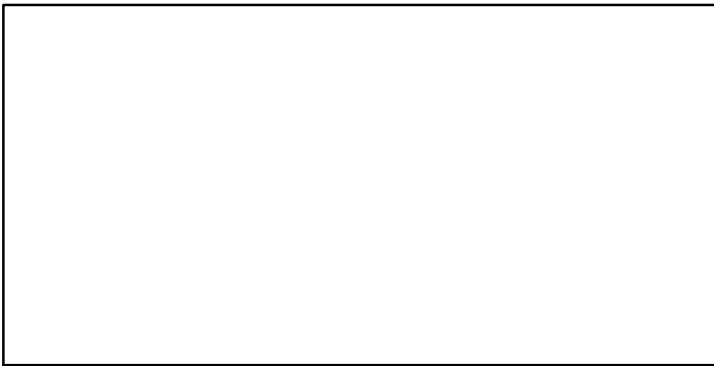
TAC*, Cpair*, Cadv*



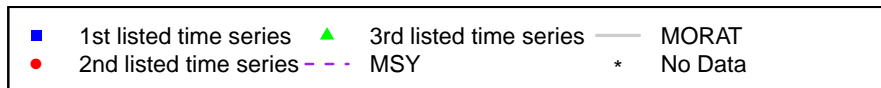
CPUE*



EFFORT*



CdivMSY*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU5-1991-2017-ICESIMP2018
Area	Botney Cut - Silver Pit(FU 5)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	2110		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

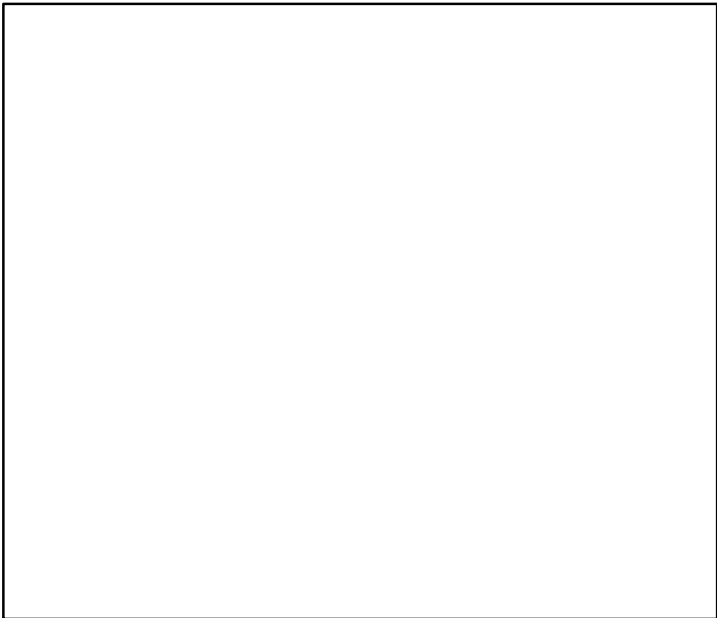
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

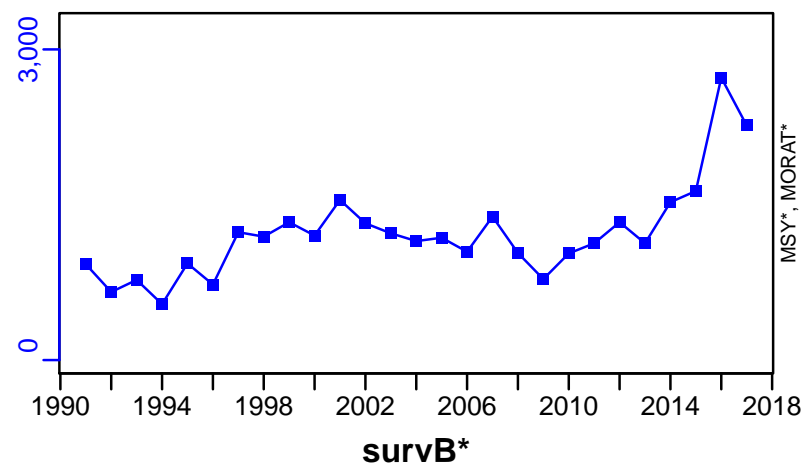


Recruits*

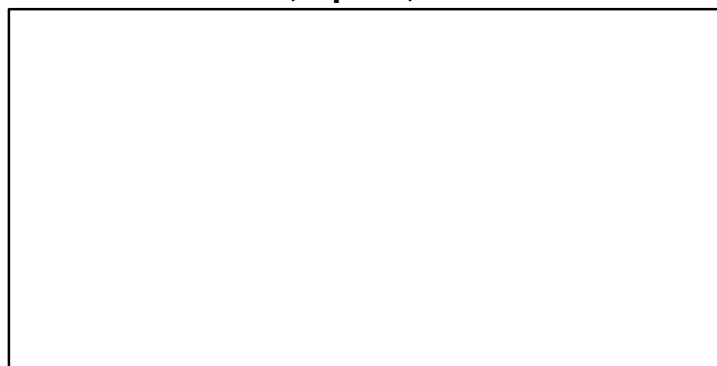


Norway lobster Botney Cut – Silver Pit (FU 5) [NEPHFU5]

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



TAC*, Cpair*, Cadv*



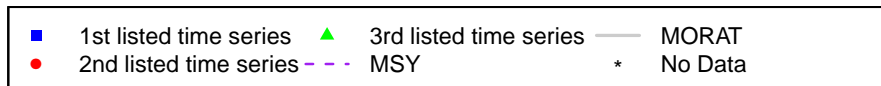
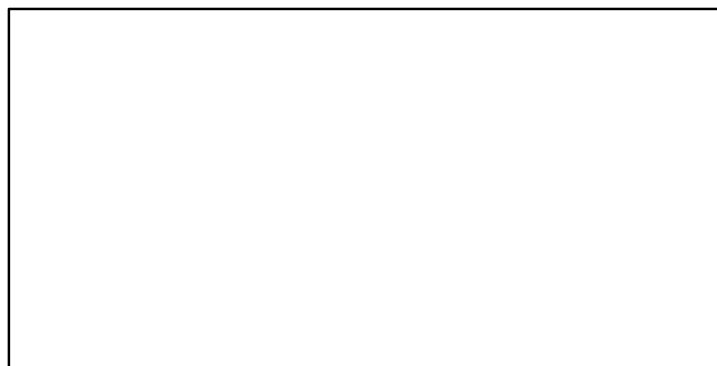
CPUE*



EFFORT*



CdivMSY*

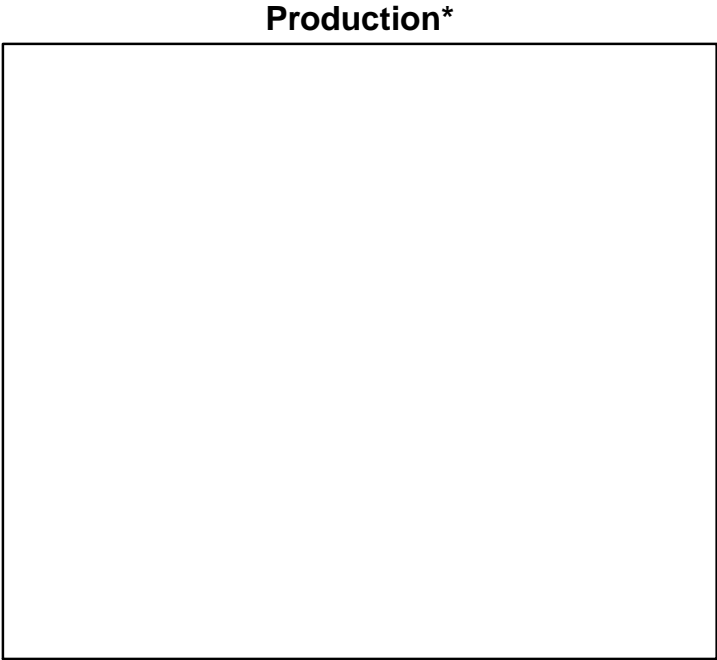
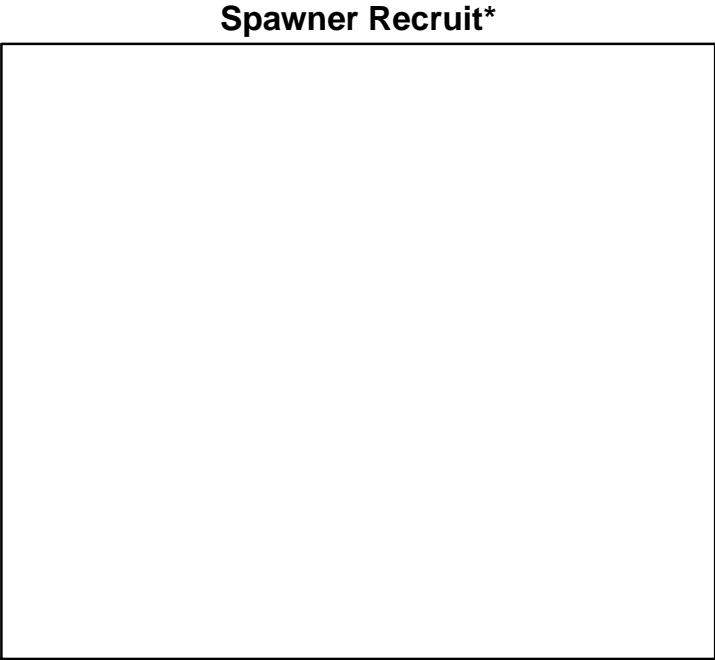
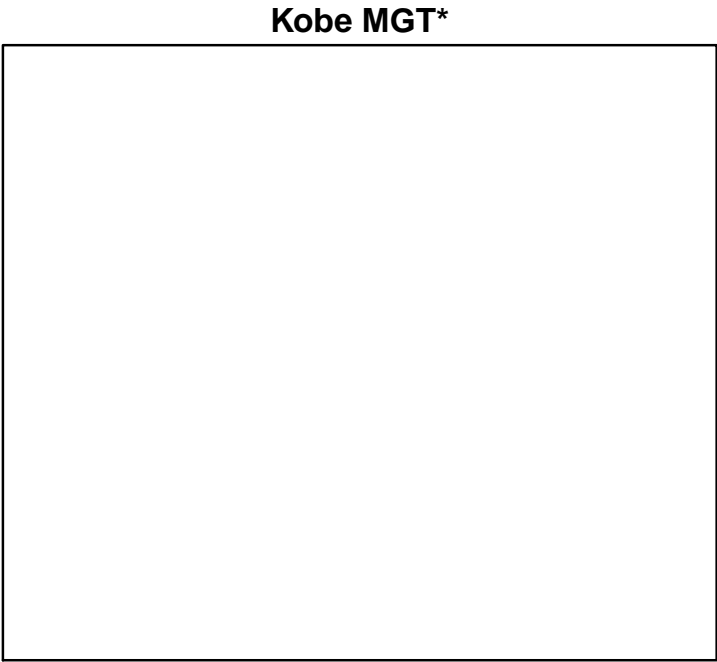
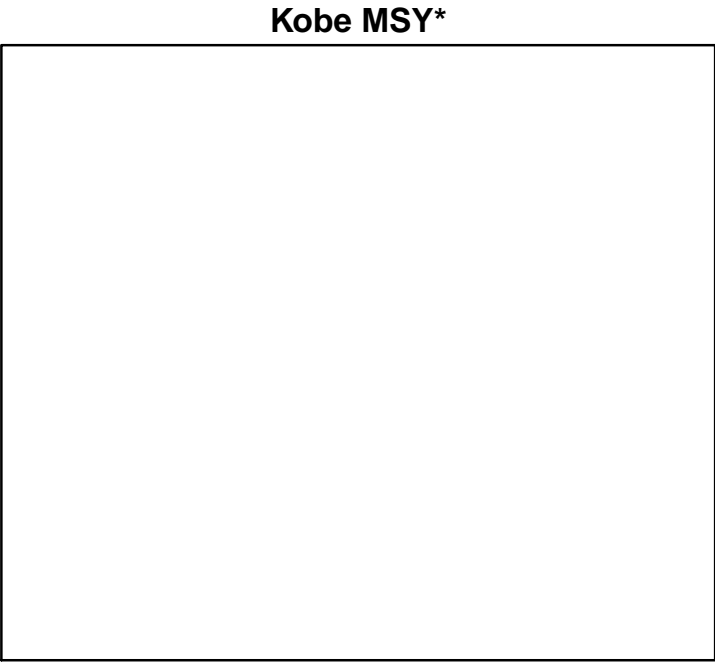


Norway lobster Farn Deep (FU 6) [NEPHFU6]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU6-1981-2016-ICESIMP2018
Area	Farn Deep (FU 6)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.081
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.081
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

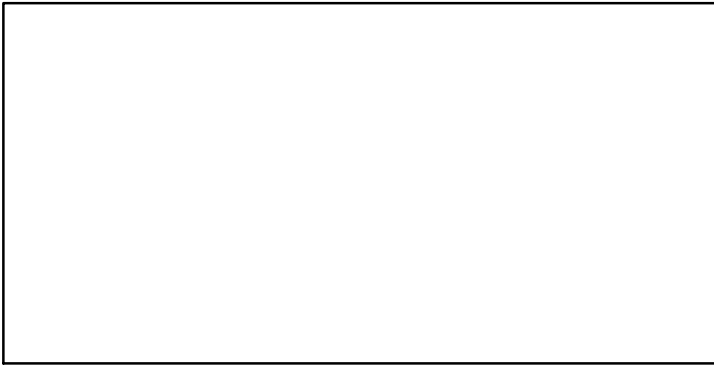
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.116	-	-
TC	TC-MT	2016	2130		
TL	TL-MT	2016	1370		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.435		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



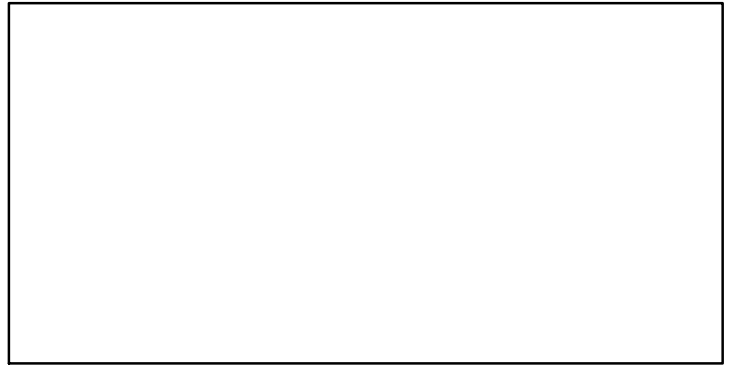
◆ Start Year ◆ End Year * No Data

Norway lobster Farn Deepes (FU 6) [NEPHFU6]

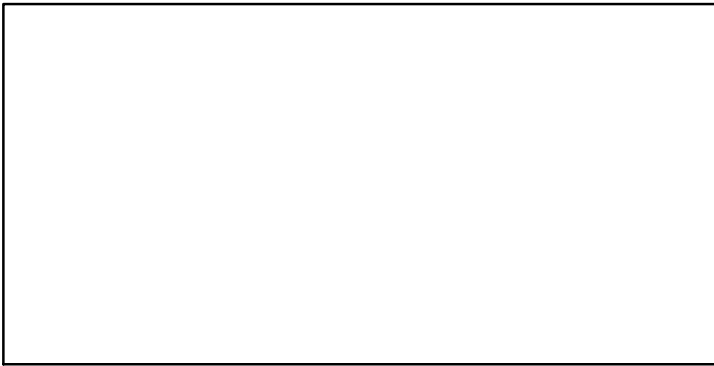
TB*



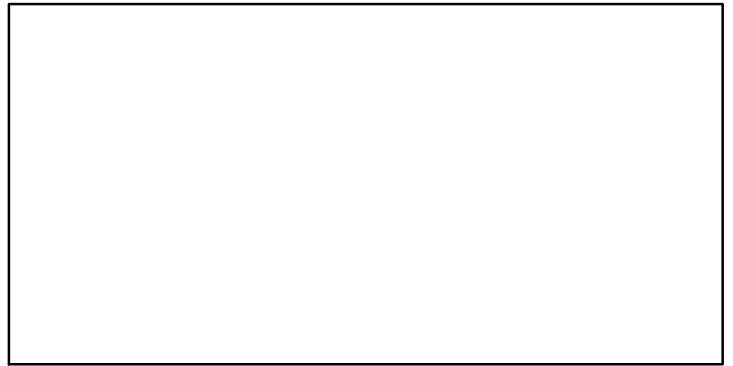
SSB*



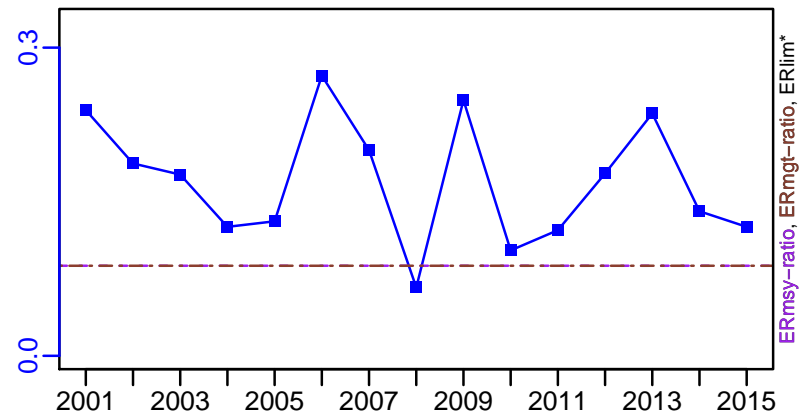
TN *



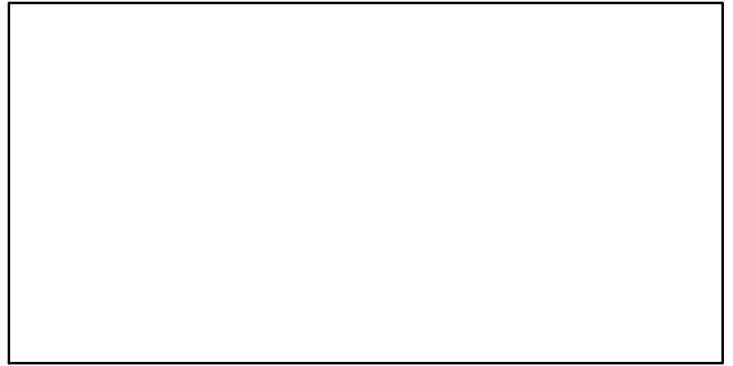
F*



ER-ratio (1981–2016–ICESIMP2016)



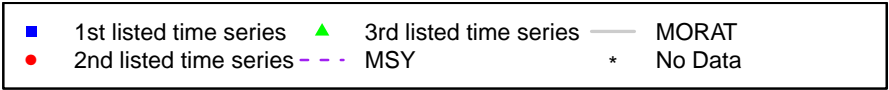
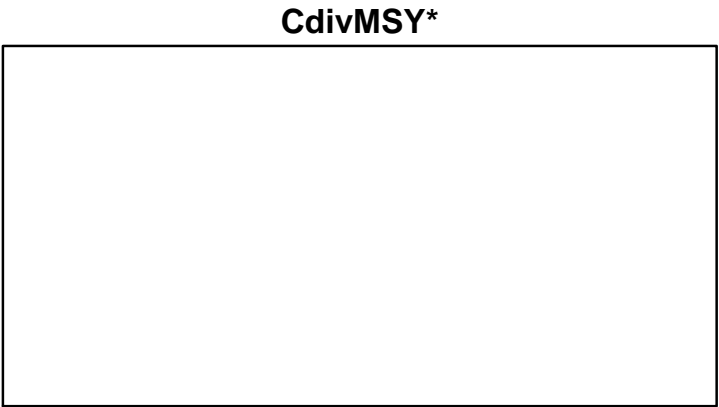
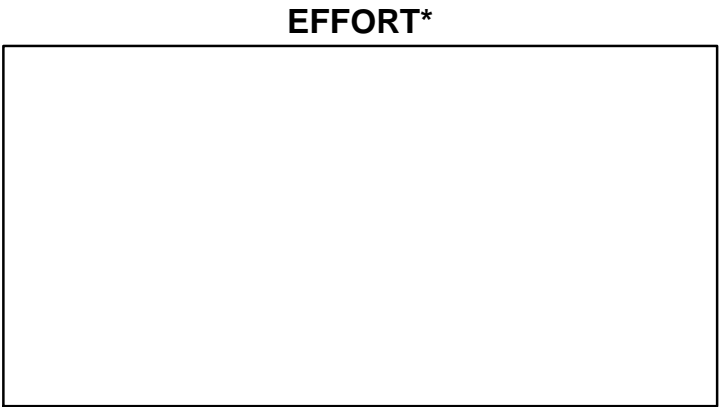
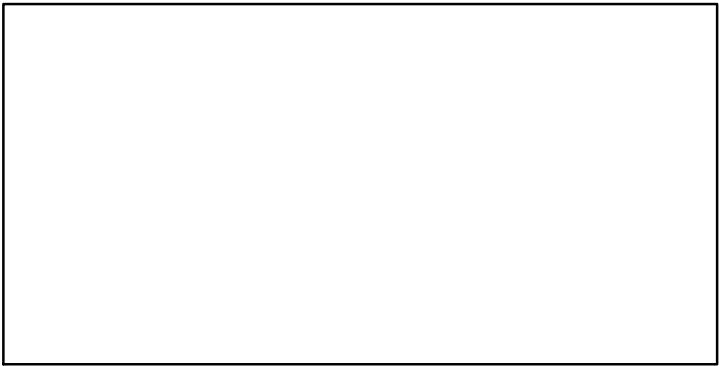
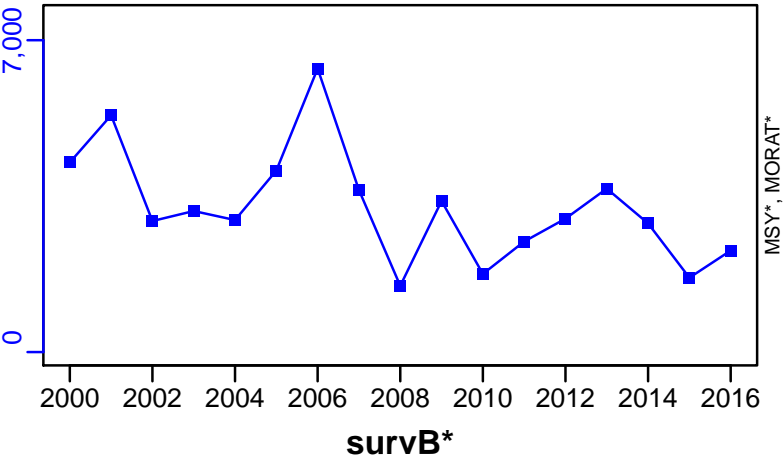
Recruits*



Norway lobster Farn Deepes (FU 6) [NEPHFU6]

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

TAC*, Cpair*, Cadv*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

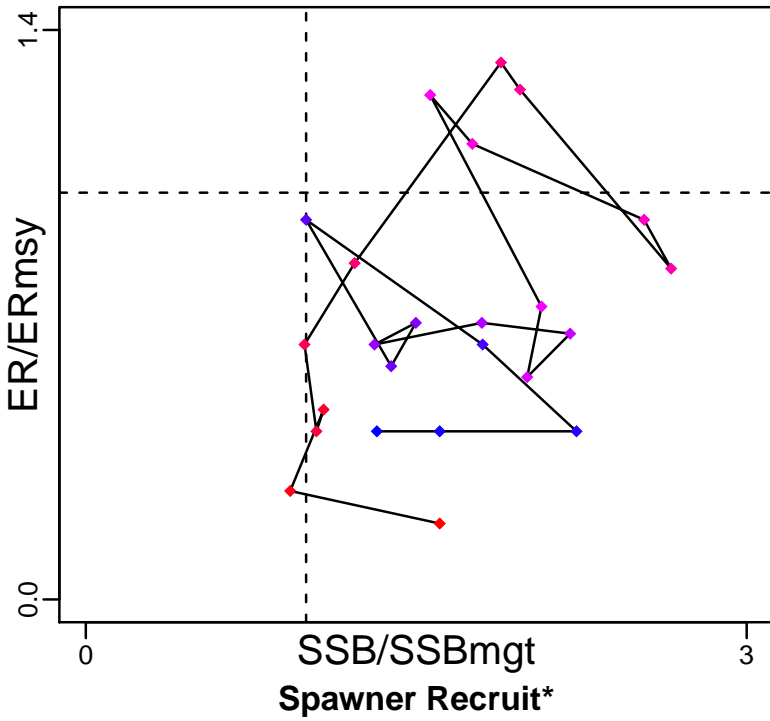
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU7-1992-2017-ICESIMP2018
Area	Fladen Ground (FU 7)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2015, 2016, 2016, 2017

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

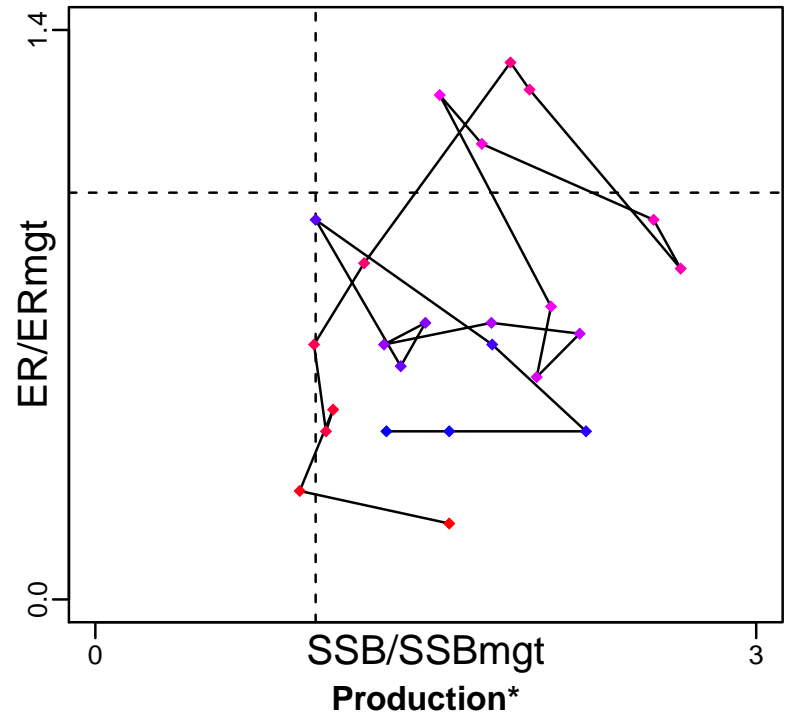
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2017	7.04×10^9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	2	-	-
ER	ER-ratio	2017	0.014	-	-
TC	-	-	-		
TL	TL-MT	2017	2400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.267		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.187		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2017	2.542		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.267		
ER/ERmgt	-	-	-		

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

Kobe MSYpref (1992–2017–ICESIMP2018)



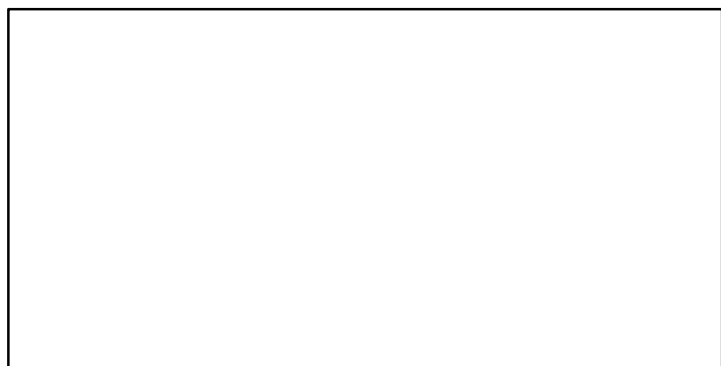
Kobe MGTpref (1992–2017–ICESIMP2018)



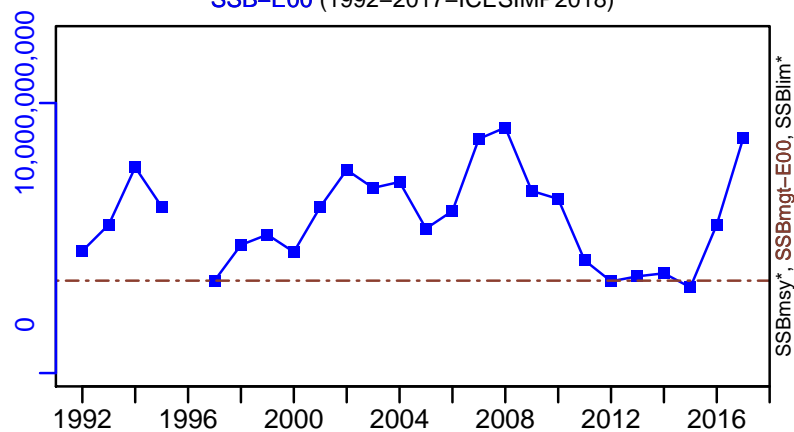
◆ Start Year ◆ End Year * No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

TB*



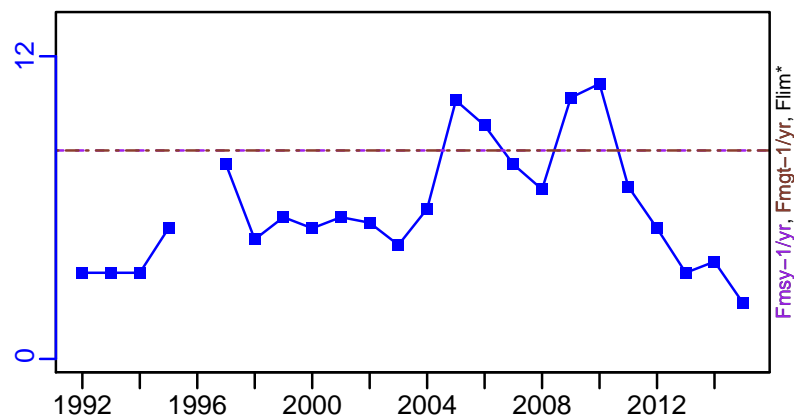
SSB-E00 (1992-2017-ICESIMP2018)



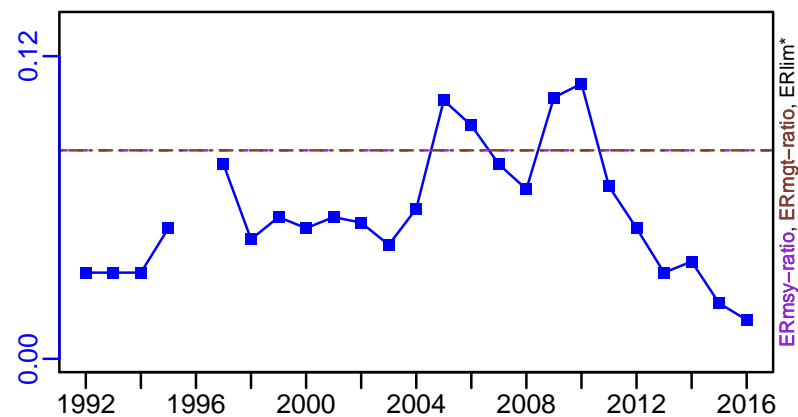
TN *



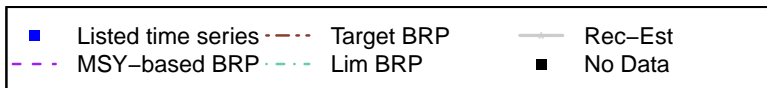
F-1/yr (1992-2016-ICESIMP2018)



ER-ratio (1992-2017-ICESIMP2018)



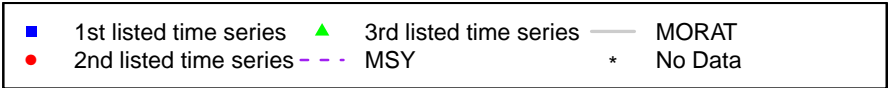
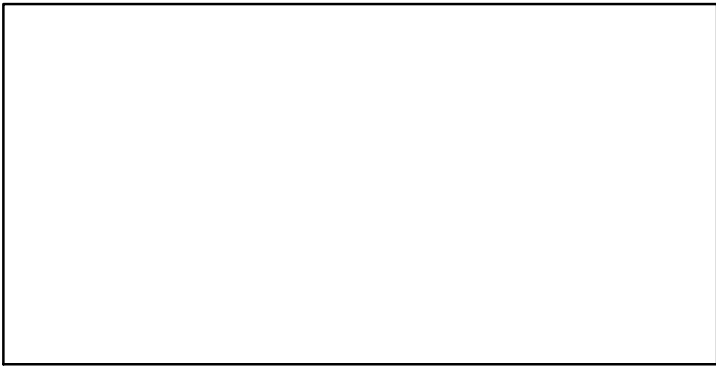
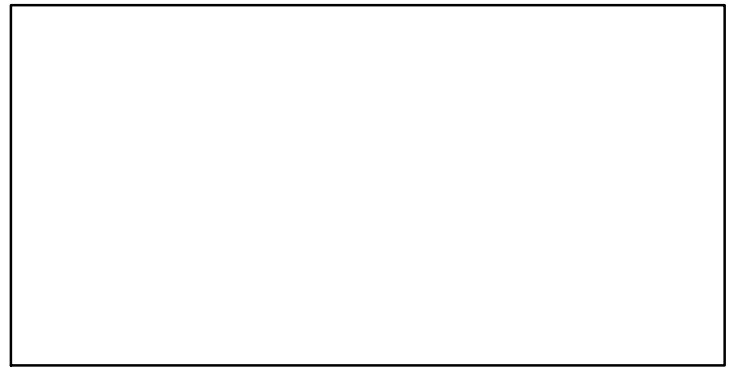
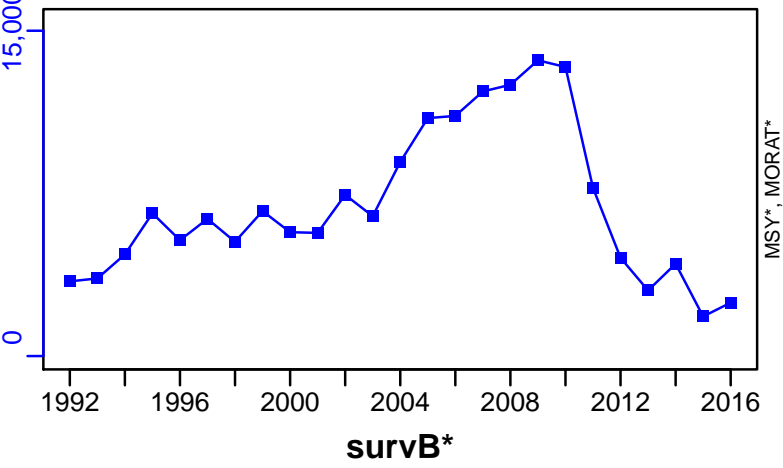
Recruits*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

TL-MT, TC*, RecC* (1992–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*

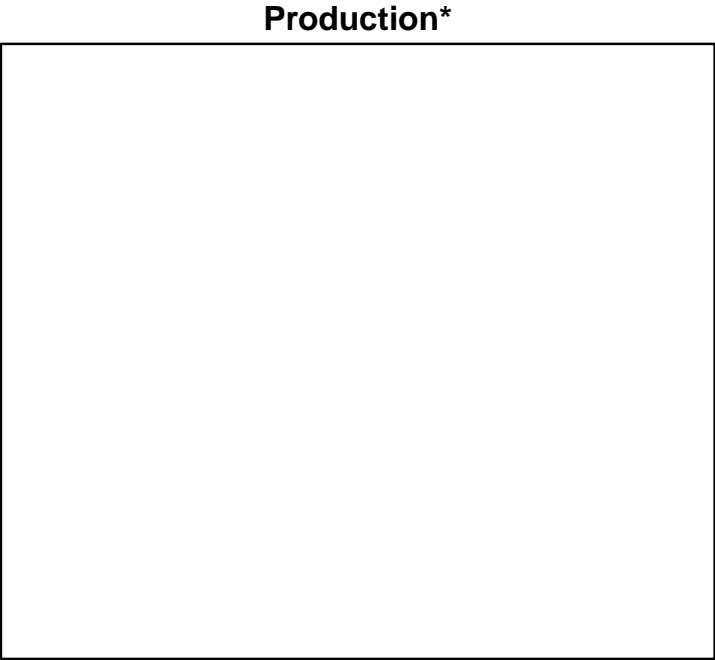
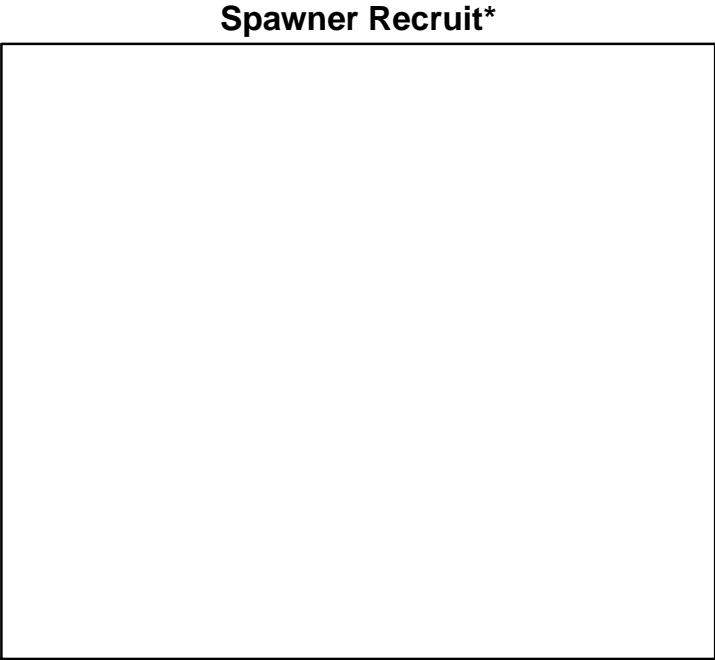
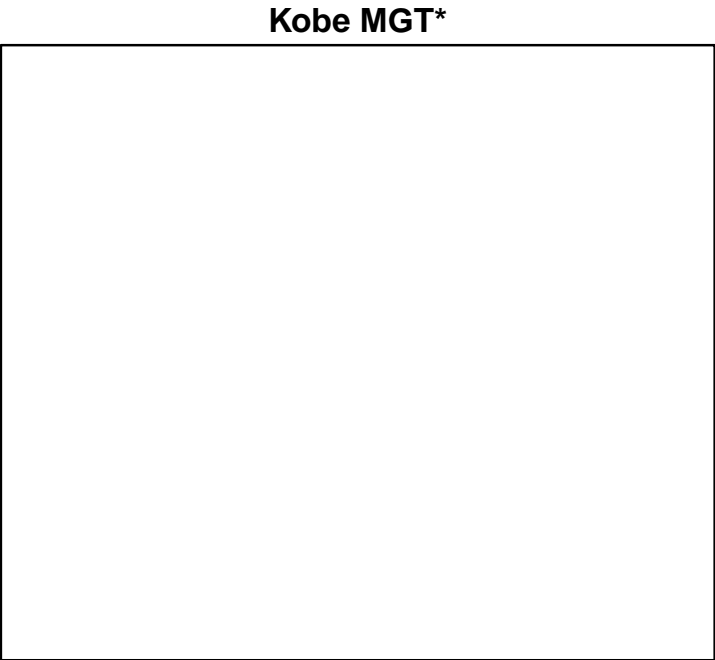
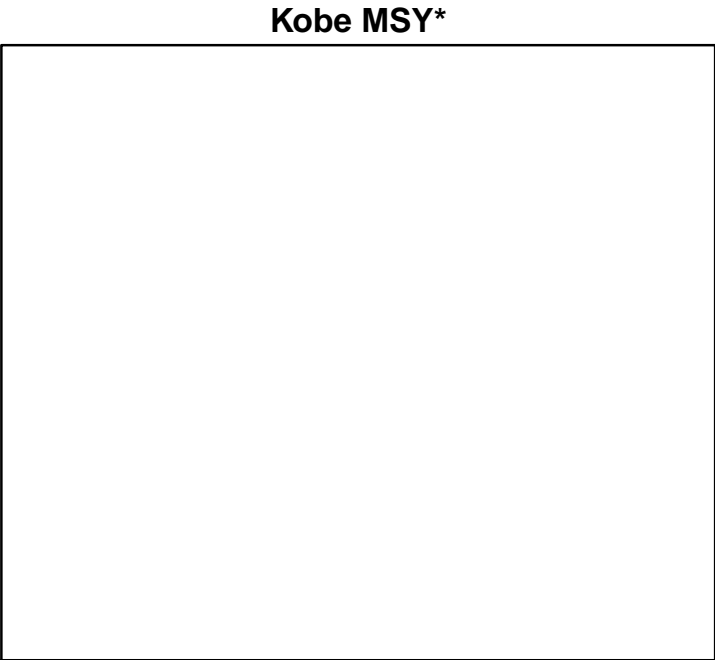


Norway lobster Firth of Forth (FU 8) [NEPHFU8]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU8-1993-2016-ICESIMP2018
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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0.168	-	-
TC	-	-	-		
TL	TL-MT	2016	1890		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.031		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

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

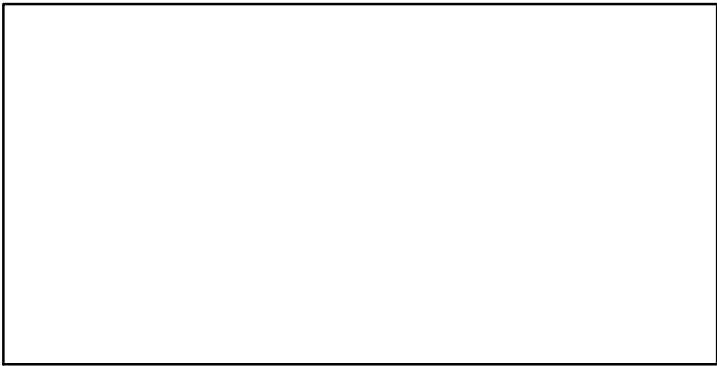
TB*



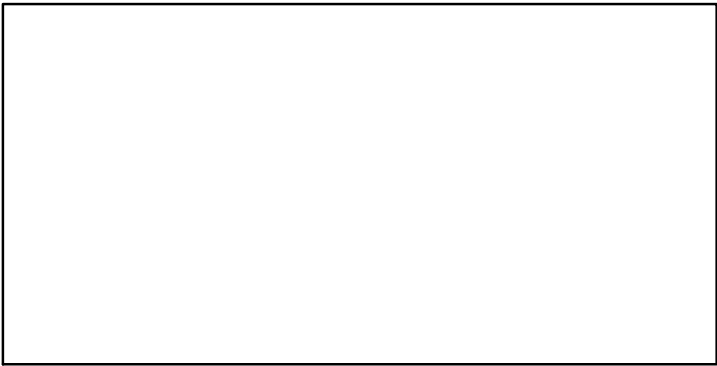
SSB*



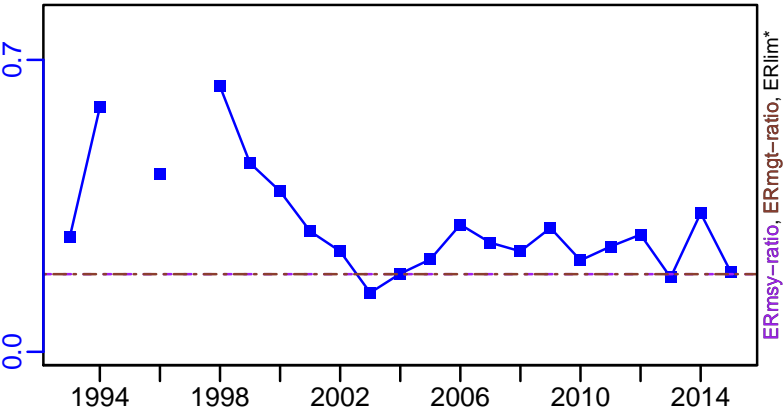
TN *



F*



ER-ratio (1993–2016–ICESIMP2016)

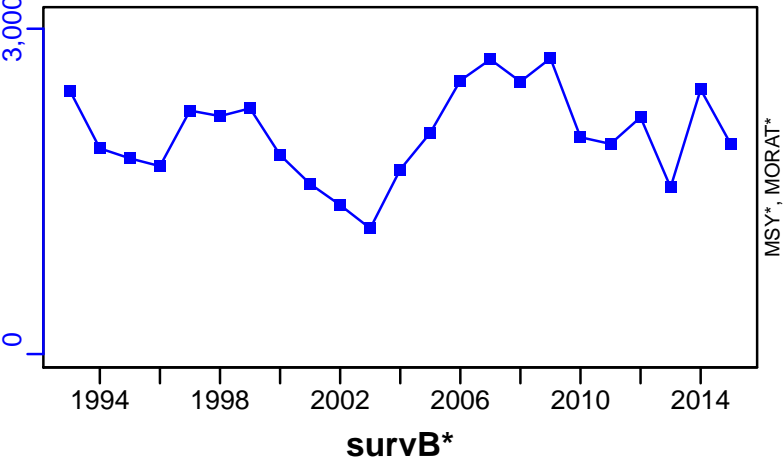


Recruits*



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

TL-MT, TC*, RecC* (1993–2016–ICESIMP2016)



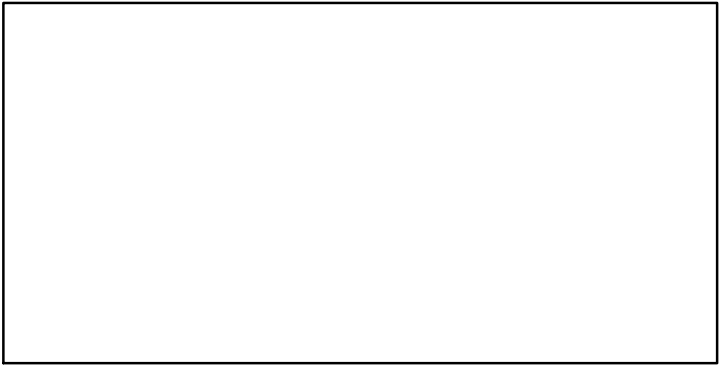
TAC*, Cpair*, Cadv*



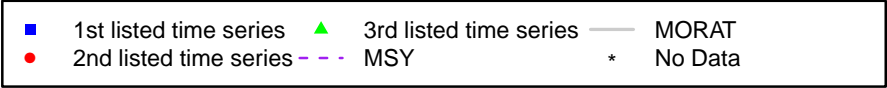
CPUE*



EFFORT*



CdivMSY*



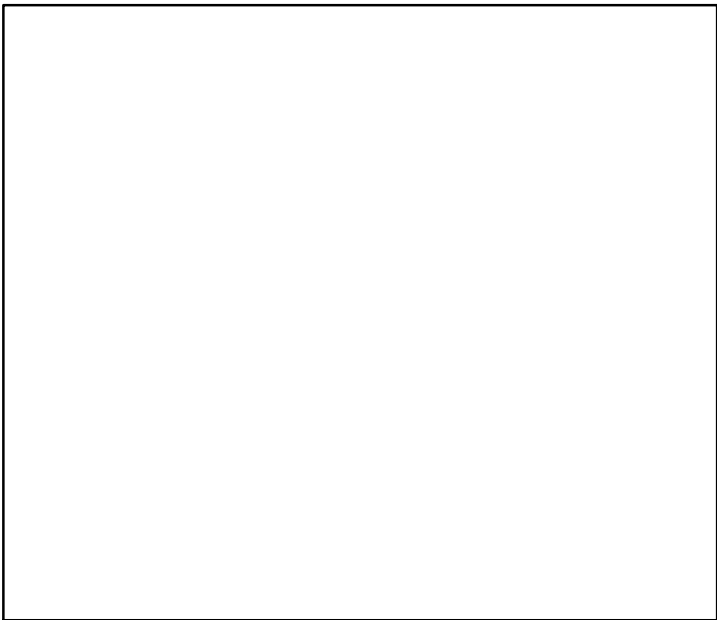
Norway lobster Moray Firth (FU 9) [NEPHFU9]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU9-1993-2017-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2017	0.118
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2017	0.118
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2017	0.105	-	-
TC	-	-	-		
TL	TL-MT	2017	1120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.89		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

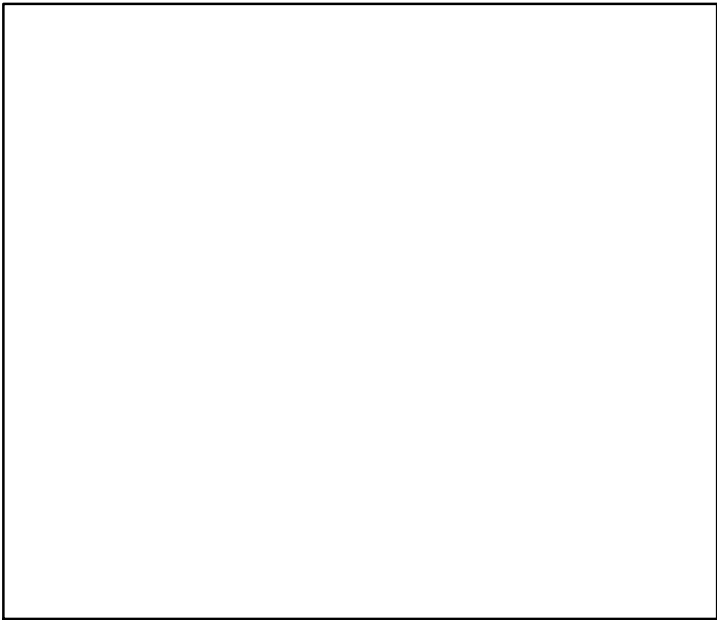
Kobe MSY*



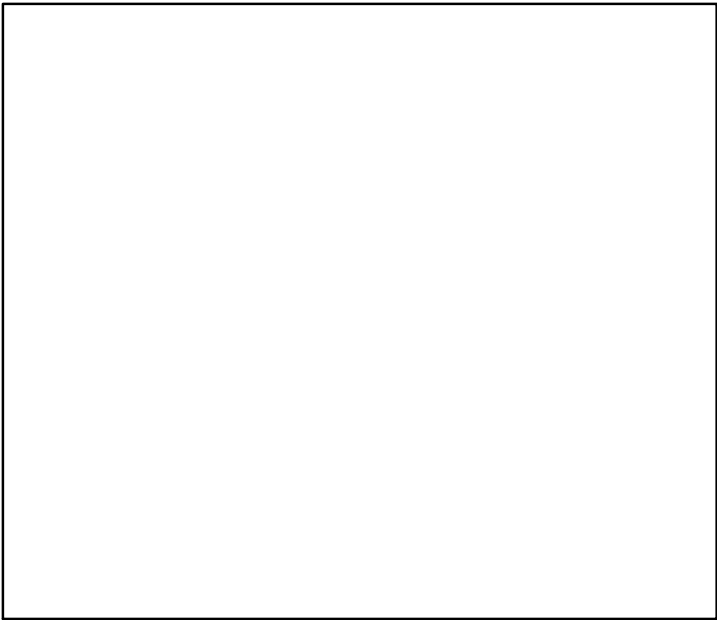
Kobe MGT*



Spawner Recruit*



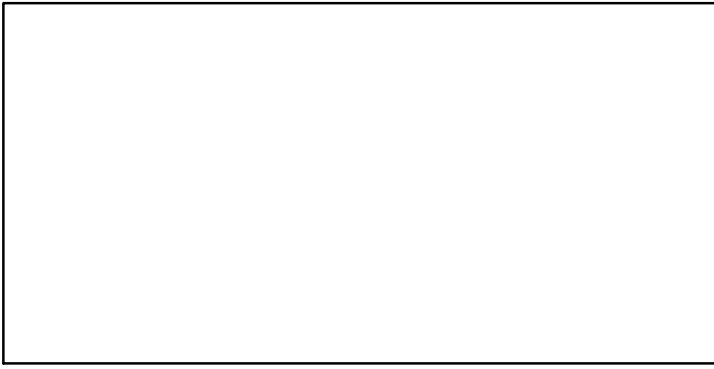
Production*



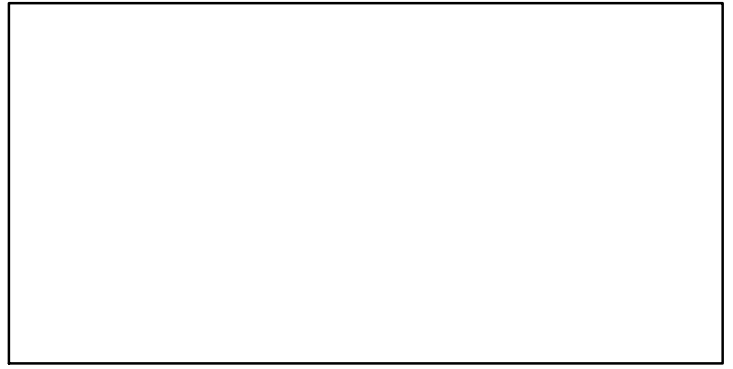
◆ Start Year ◆ End Year * No Data

Norway lobster Moray Firth (FU 9) [NEPHFU9]

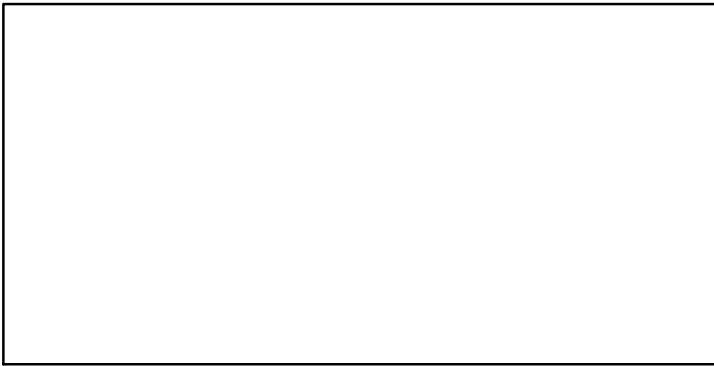
TB*



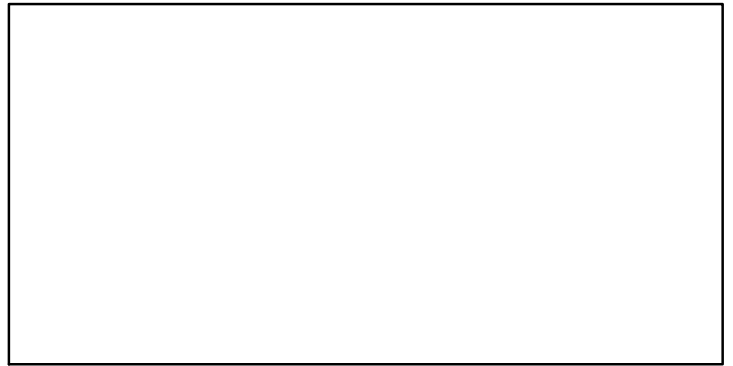
SSB*



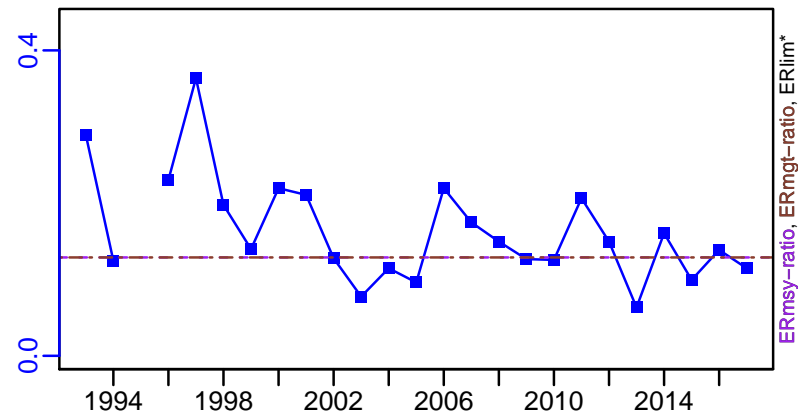
TN *



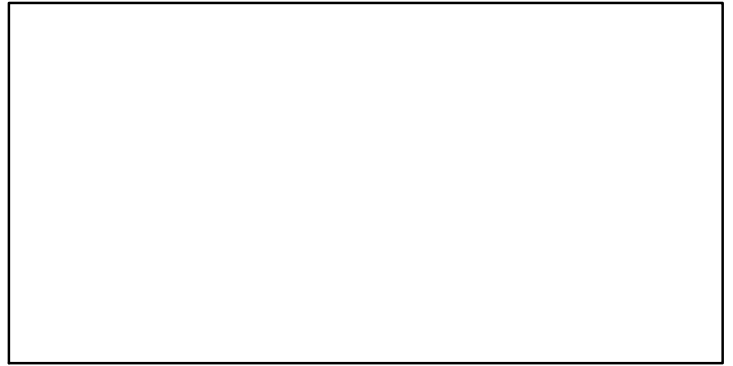
F*



ER-ratio (1993–2017–ICESIMP2018)



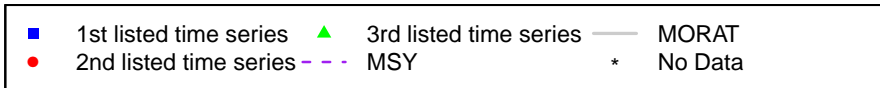
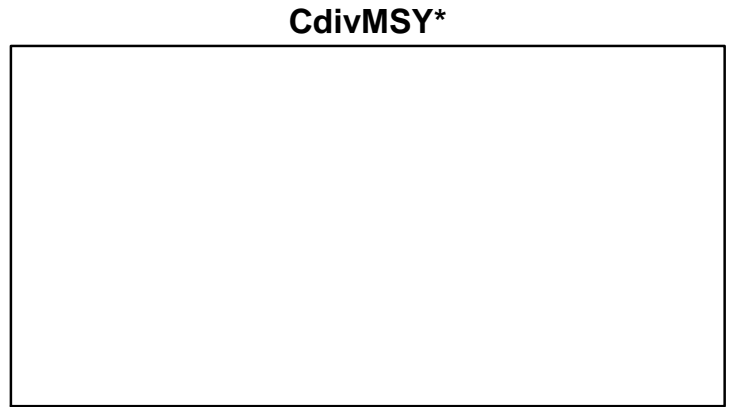
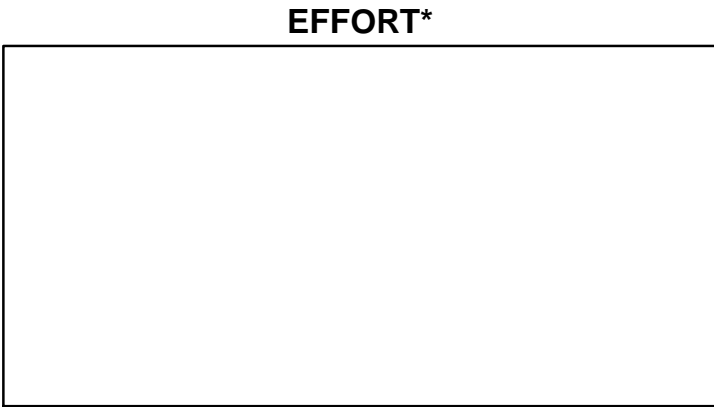
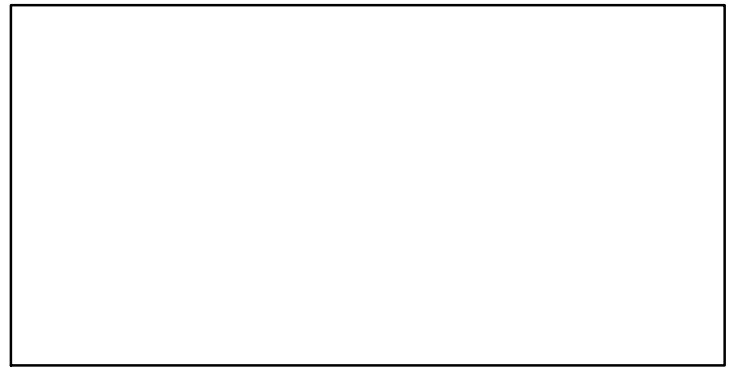
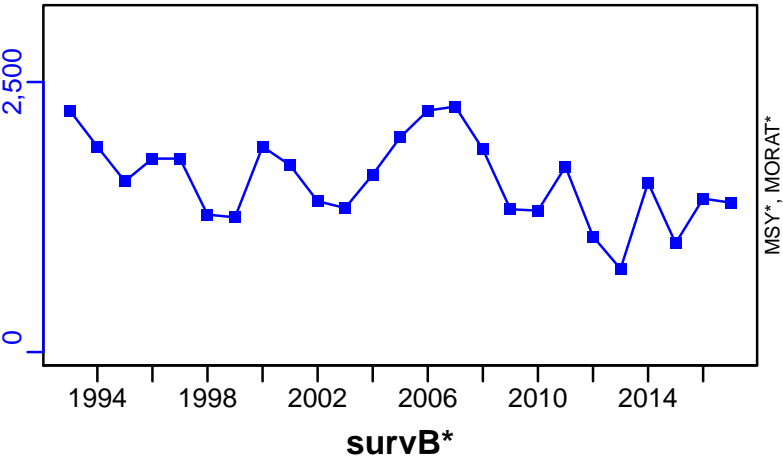
Recruits*



Norway lobster Moray Firth (FU 9) [NEPHFU9]

TL-MT, TC*, RecC* (1993–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



Norway lobster North Sea [NEPHIV]

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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	966		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

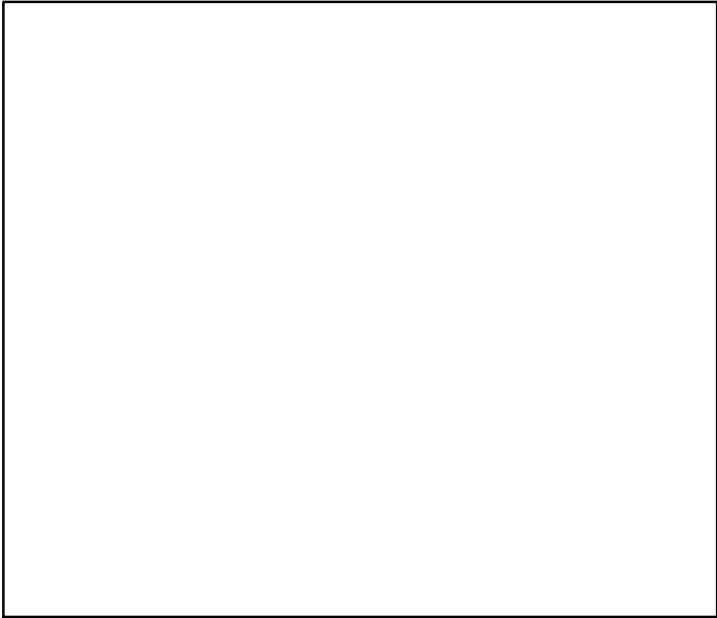
Kobe MSY*



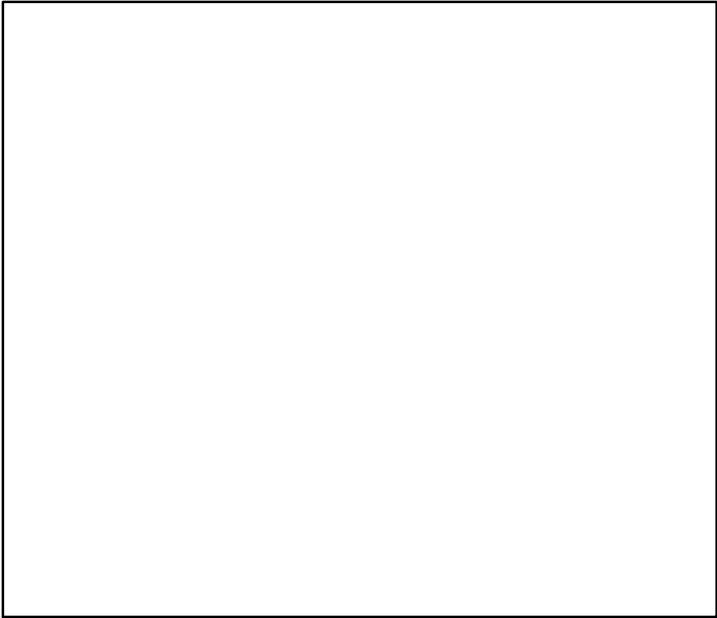
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster North Sea [NEPHIV]

TB*



SSB*



TN *



F*



ER*

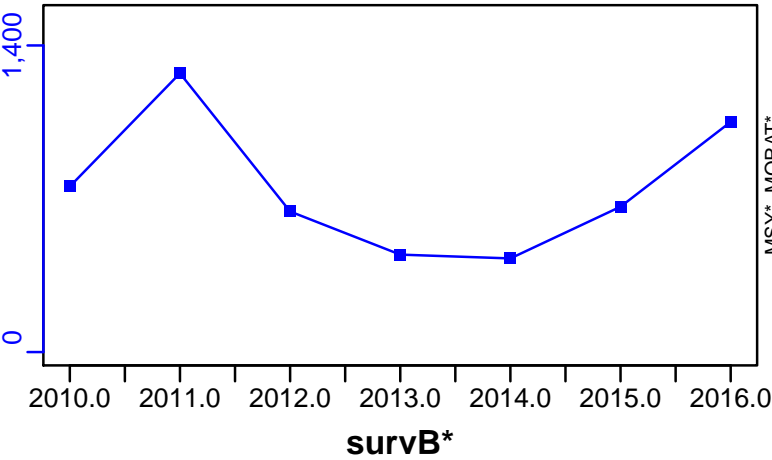


Recruits*



Norway lobster North Sea [NEPHIV]

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



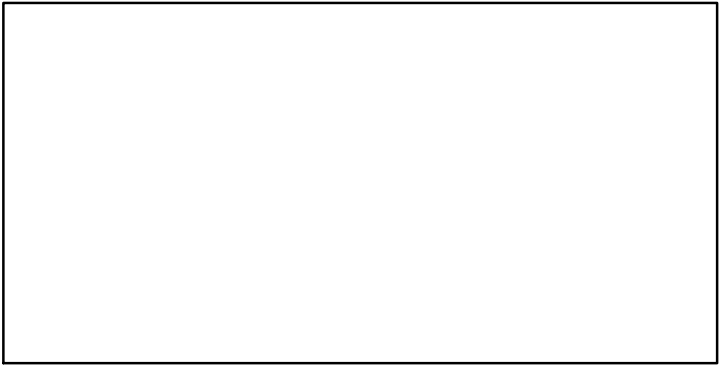
TAC*, Cpair*, Cadv*



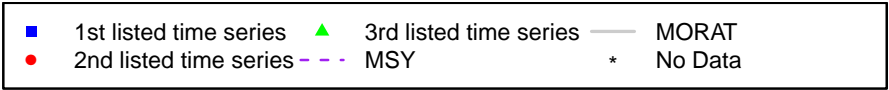
CPUE*



EFFORT*



CdivMSY*



Norway lobster West of Scotland [NEPHVla]

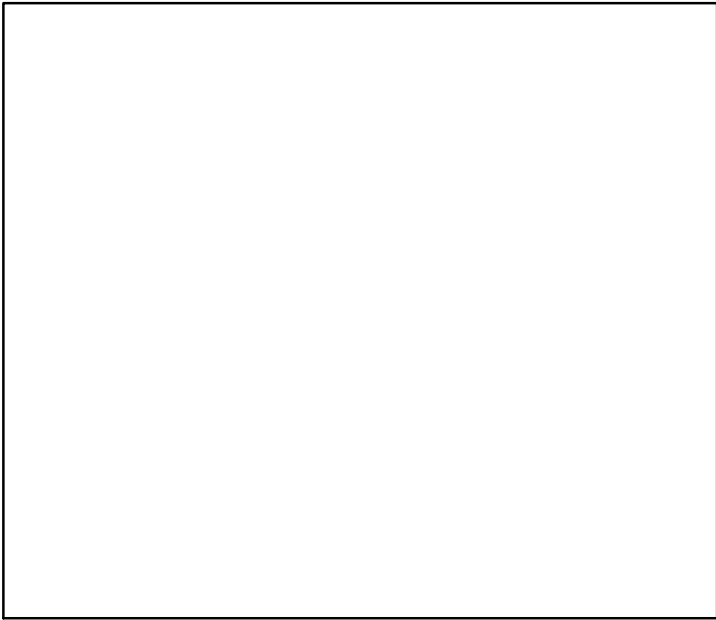
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHVla-1981-2016-ICESIMP2018
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016

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

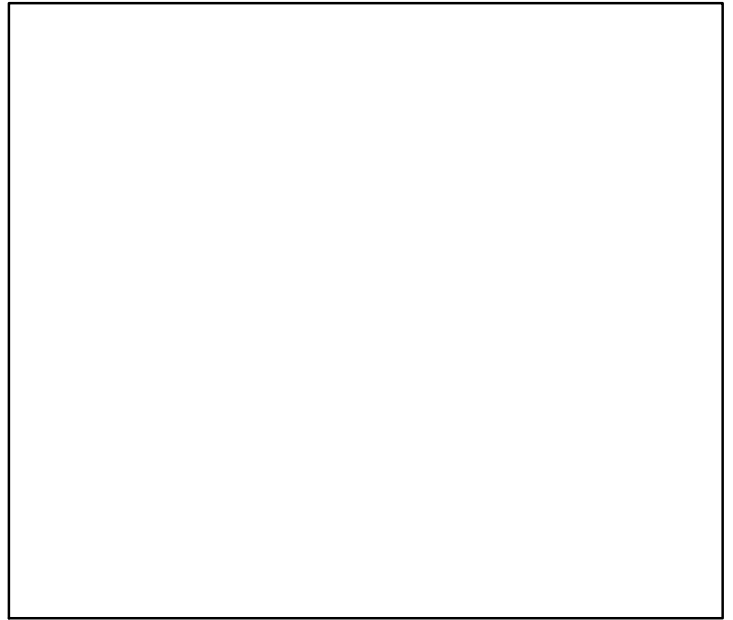
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	236		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Norway lobster West of Scotland [NEPHVla]

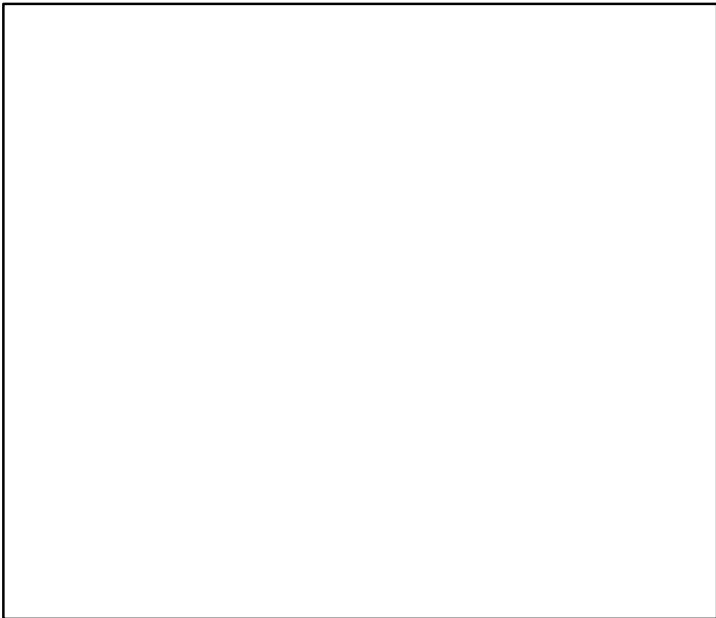
Kobe MSY*



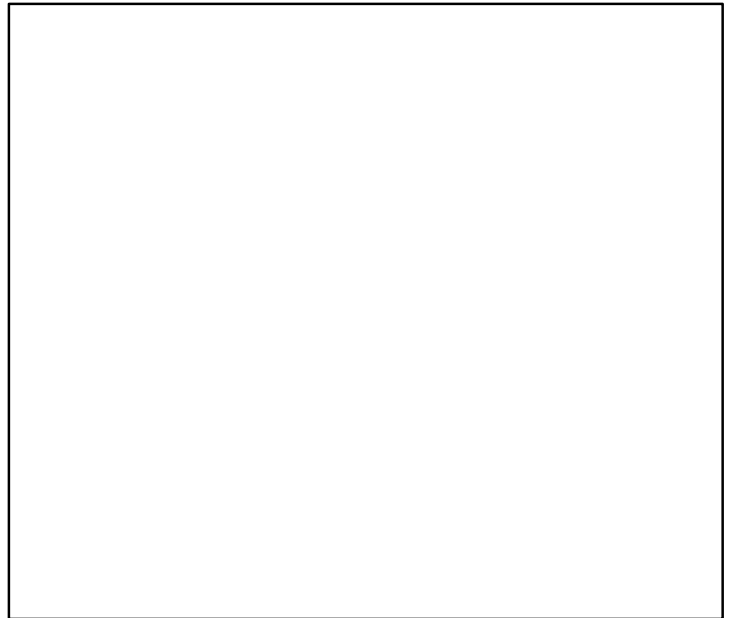
Kobe MGT*



Spawner Recruit*



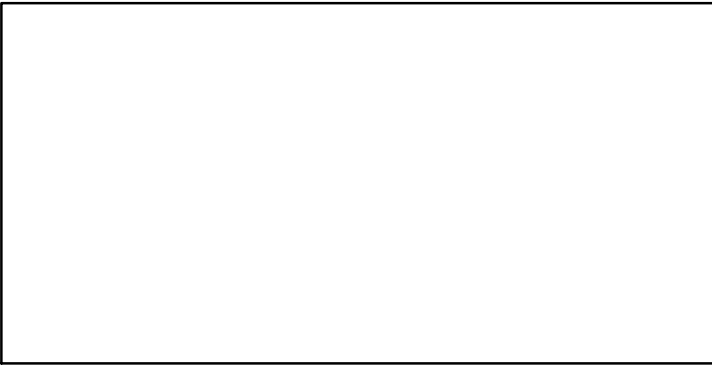
Production*



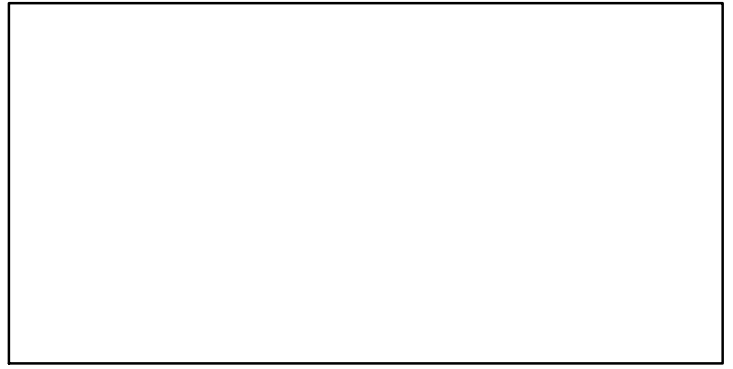
◆ Start Year ◆ End Year * No Data

Norway lobster West of Scotland [NEPHVla]

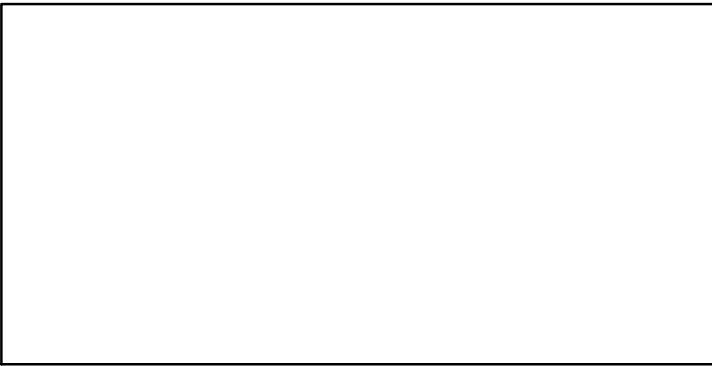
TB*



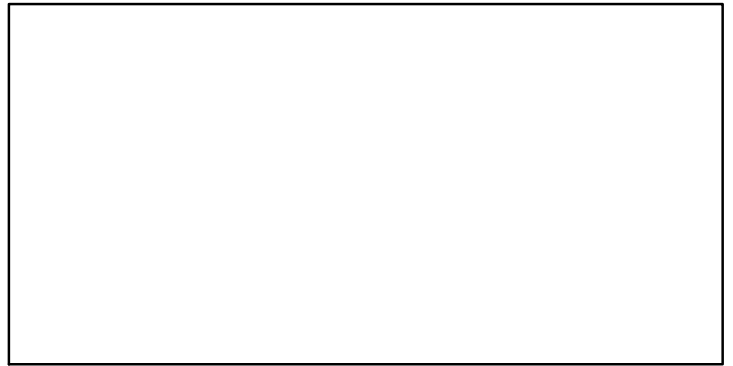
SSB*



TN *



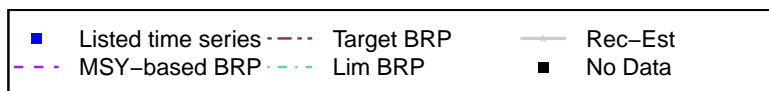
F*



ER*



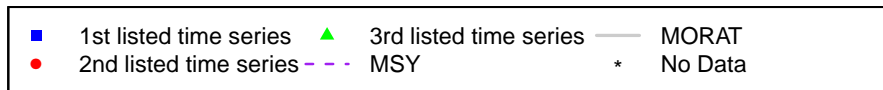
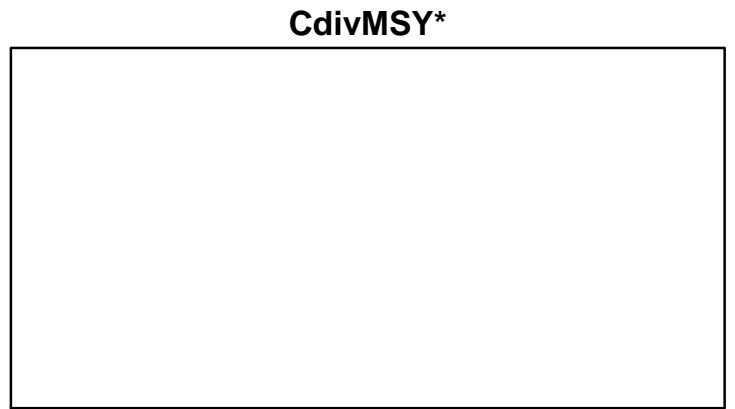
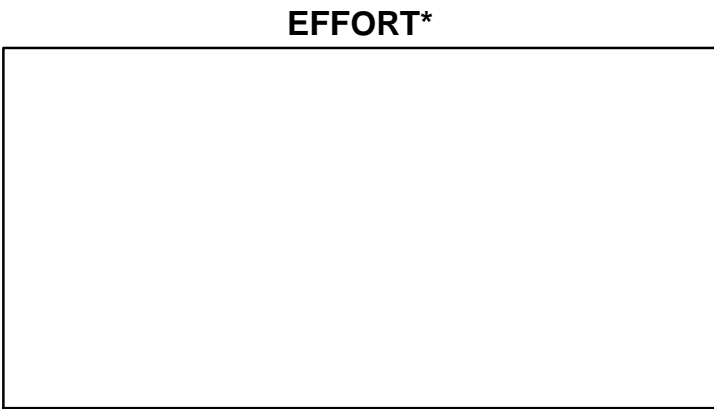
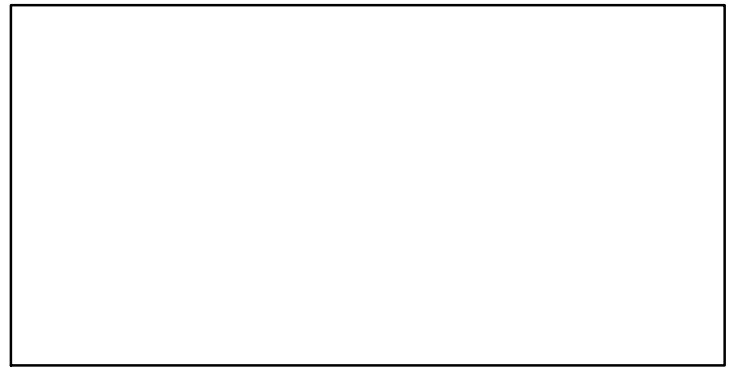
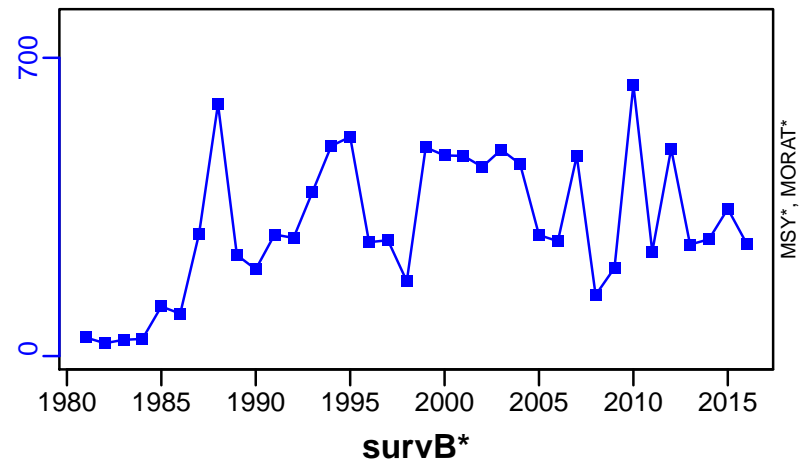
Recruits*



Norway lobster West of Scotland [NEPHVla]

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

TAC*, Cpair*, Cadv*



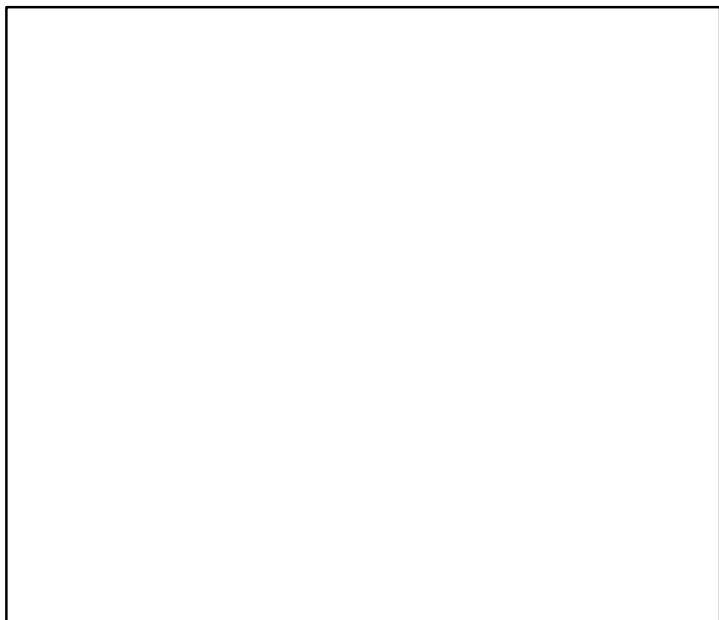
Norway lobster ICES VII [NEPHVII]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHVII-1978-2016-ICESIMP2018
Area	ICES VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2014

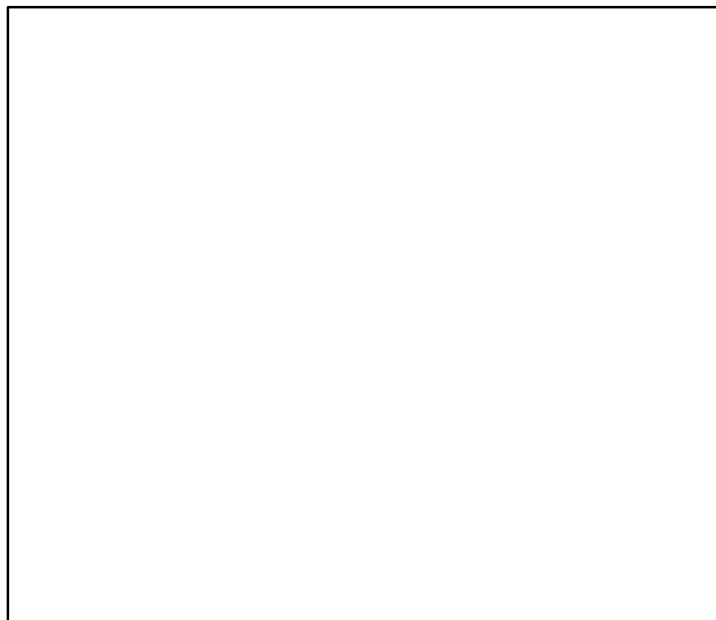
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	119		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



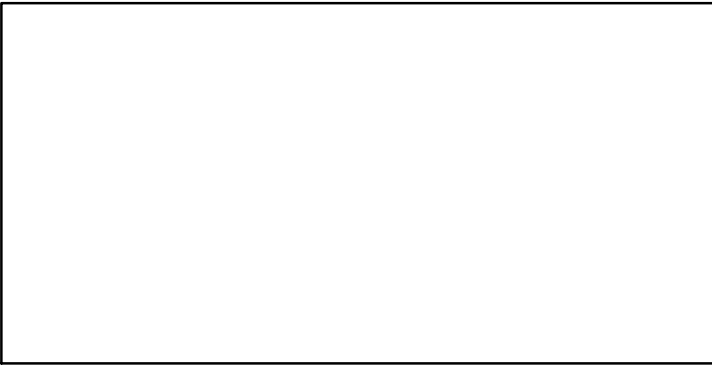
Production*



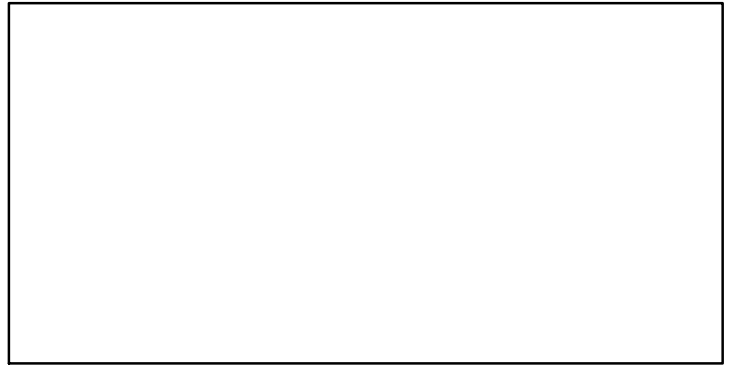
◆ Start Year ◆ End Year * No Data

Norway lobster ICES VII [NEPHVII]

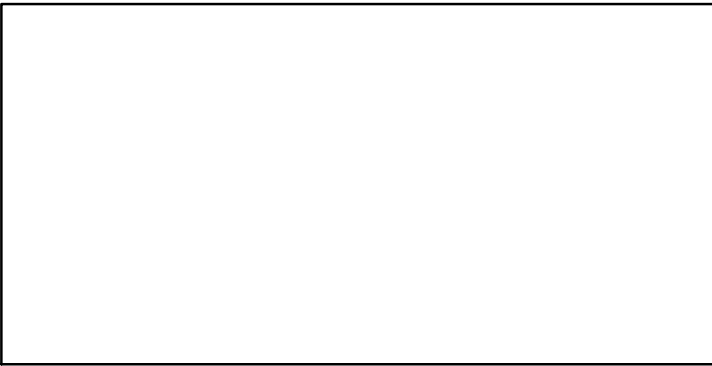
TB*



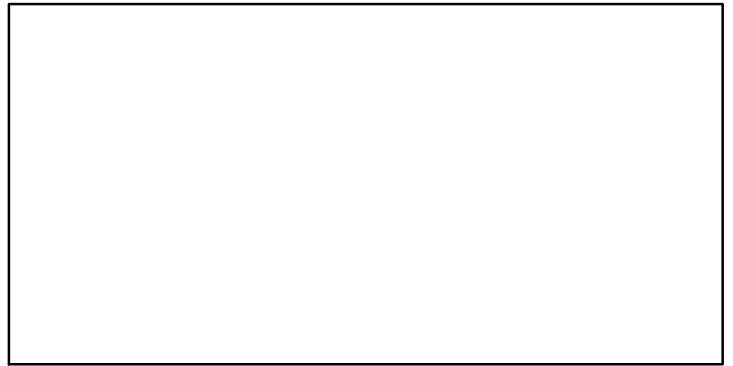
SSB*



TN *



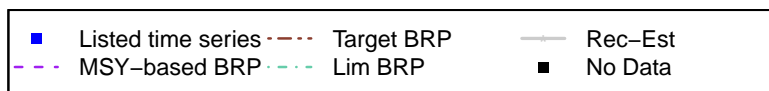
F*



ER*



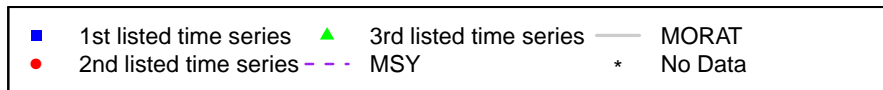
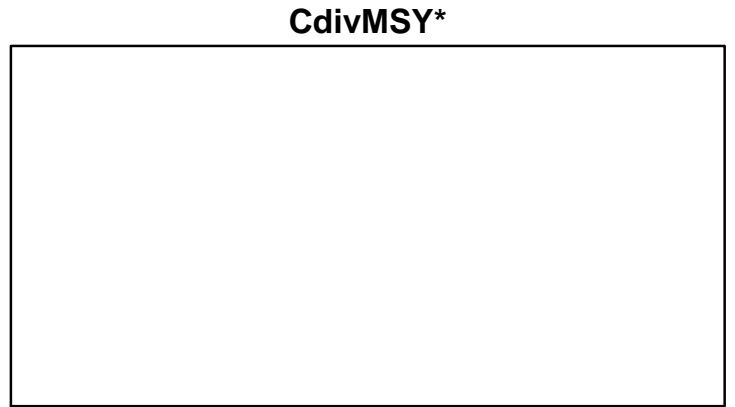
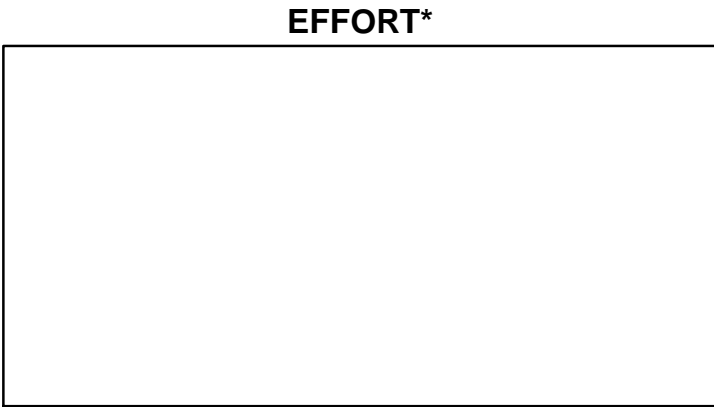
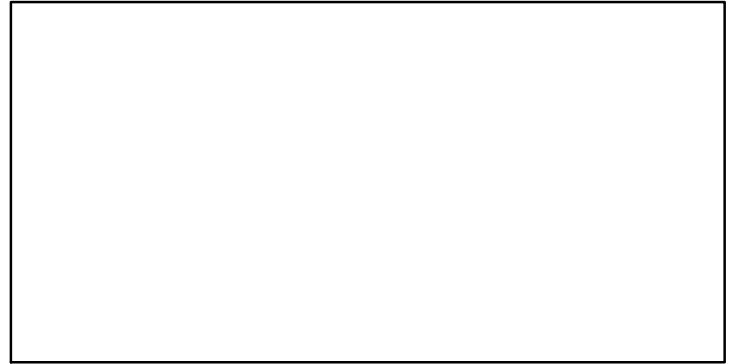
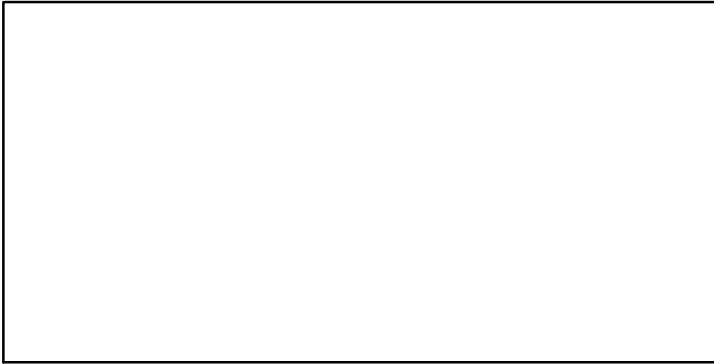
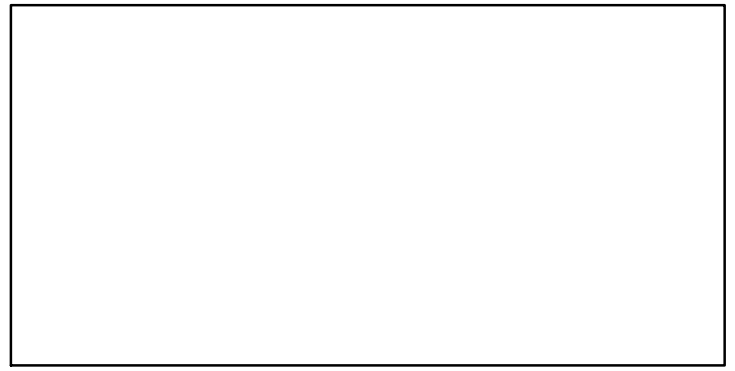
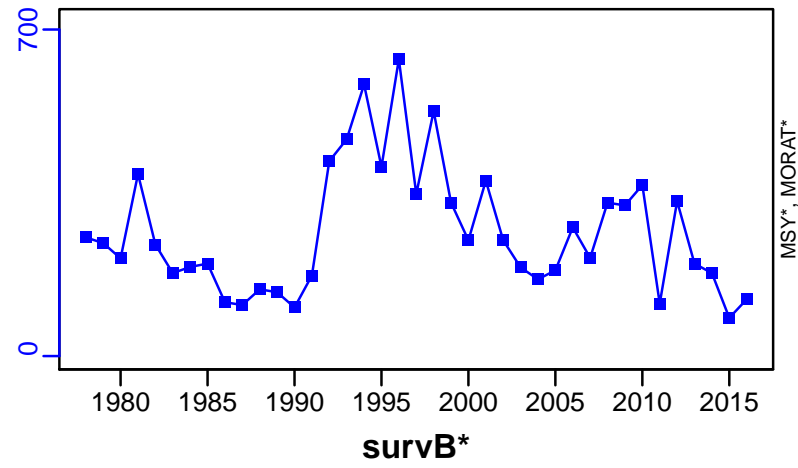
Recruits*



Norway lobster ICES VII [NEPHVII]

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

TAC*, Cpair*, Cadv*



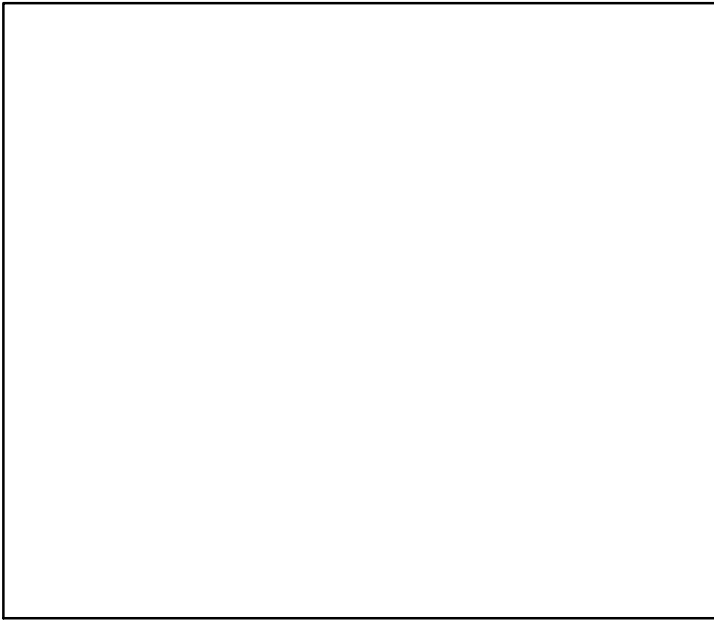
Norway lobster Villab [NEPHVillab]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHVillab-1987-2017-ICESIMP2018
Area	Villab
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

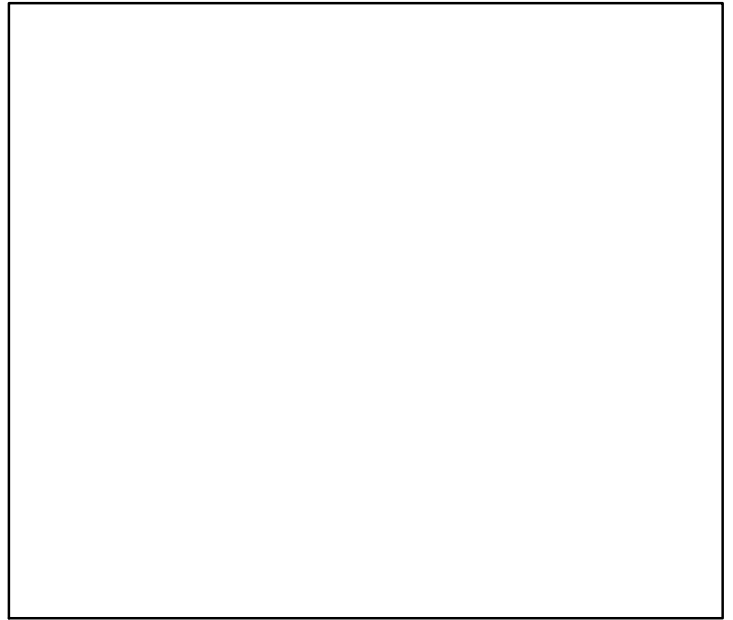
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	7.7
ERmsy	ERmsy-ratio	2017	0.077
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2016	7.7
ERmgt	ERmgt-ratio	2017	0.077
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2017	3370	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	6	-	-
ER	ER-ratio	2017	0.072	-	-
TC	TC-MT	2017	6620		
TL	TL-MT	2017	4090		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.779		
ER/ERmsy	ER-ratio/ERmsy-ratio	2017	0.941		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.779		
ER/ERmgt	-	-	-		

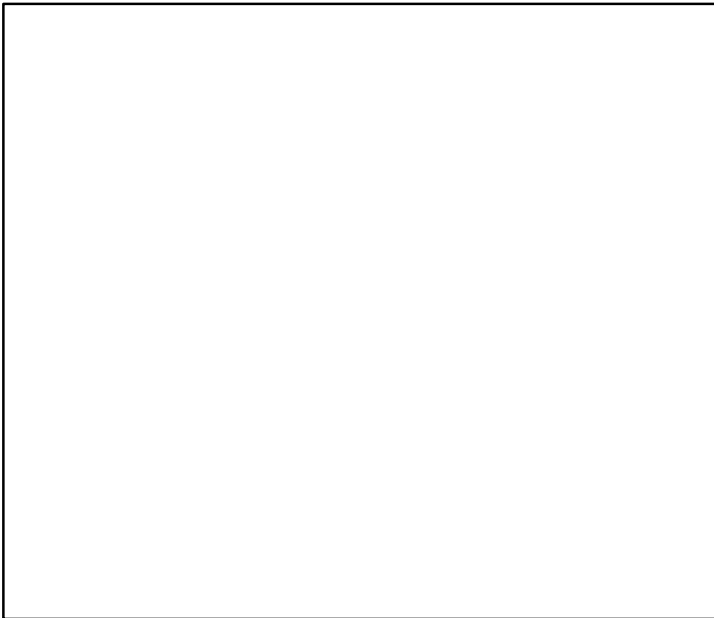
Kobe MSY*



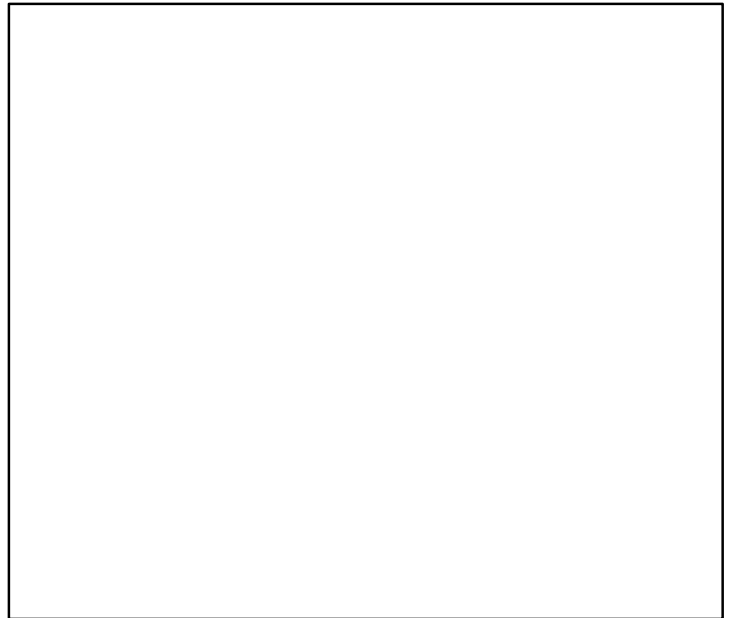
Kobe MGT*



Spawner Recruit*



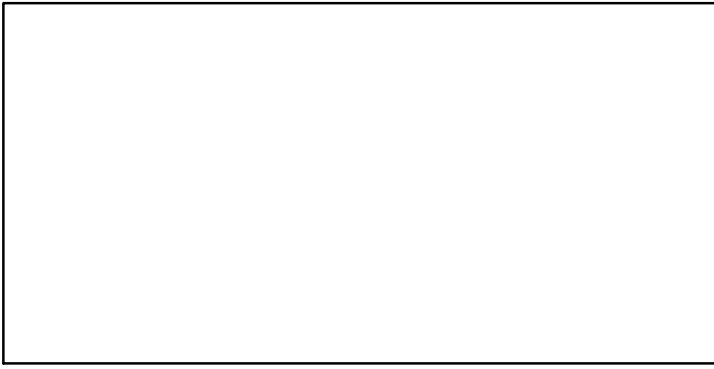
Production*



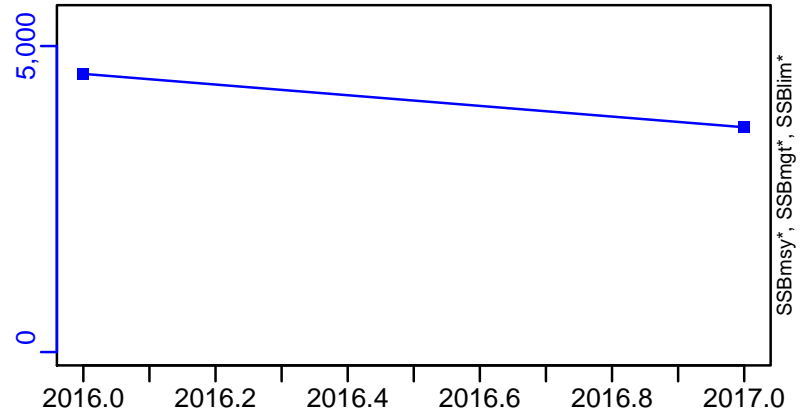
◆ Start Year ◆ End Year * No Data

Norway lobster Villab [NEPHVillab]

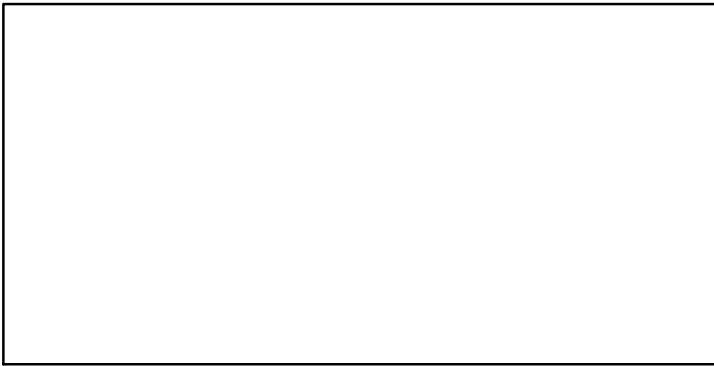
TB*



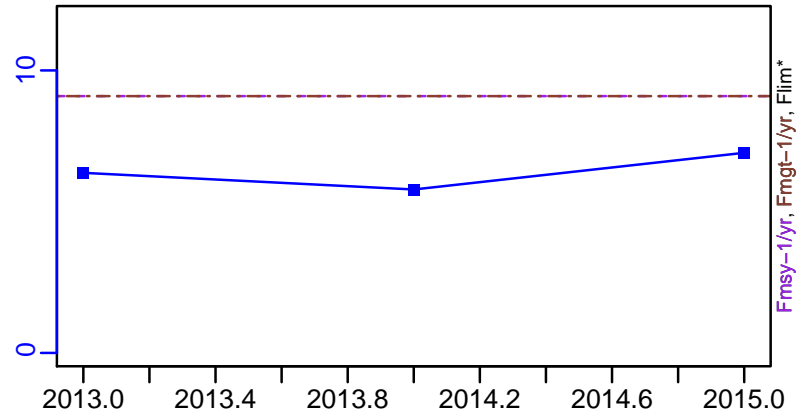
SSB-E00 (1987-2017-ICESIMP2018)



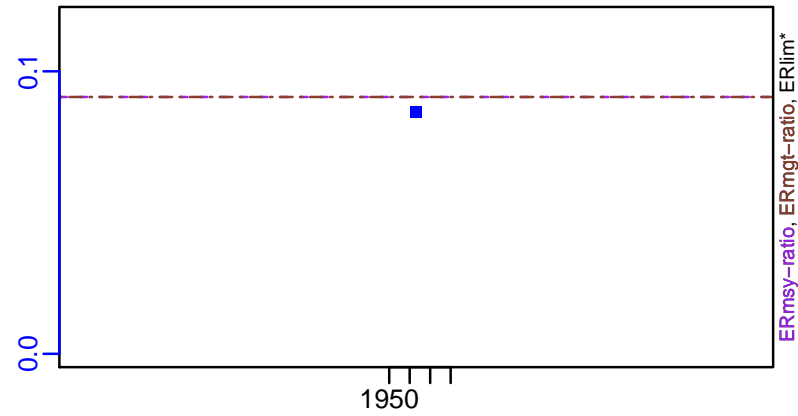
TN *



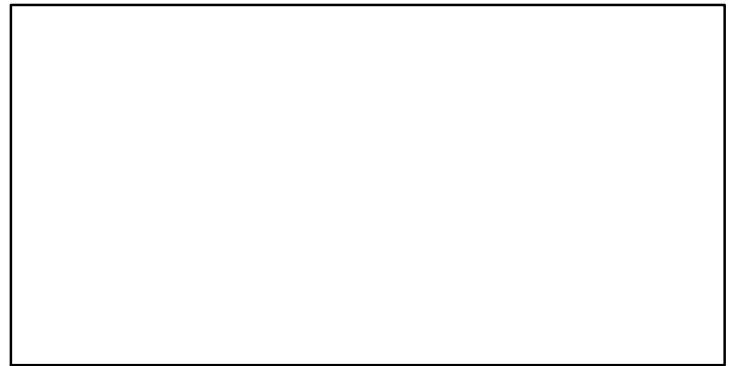
F-1/yr (1987-2016-ICESIMP2018)



ER-ratio (1987-2017-ICESIMP2018)

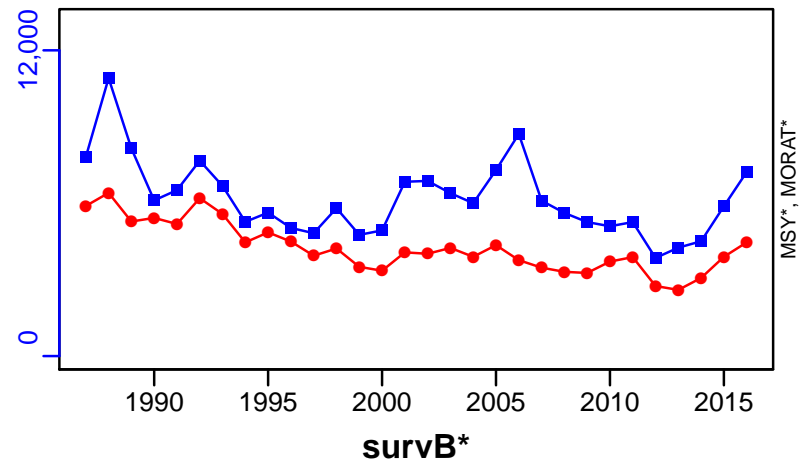


Recruits*



Norway lobster Villab [NEPHVillab]

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



TAC*, Cpair*, Cadv*



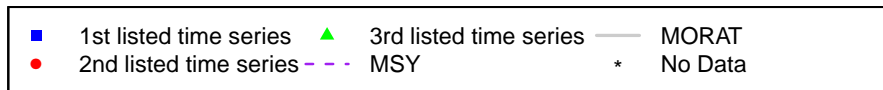
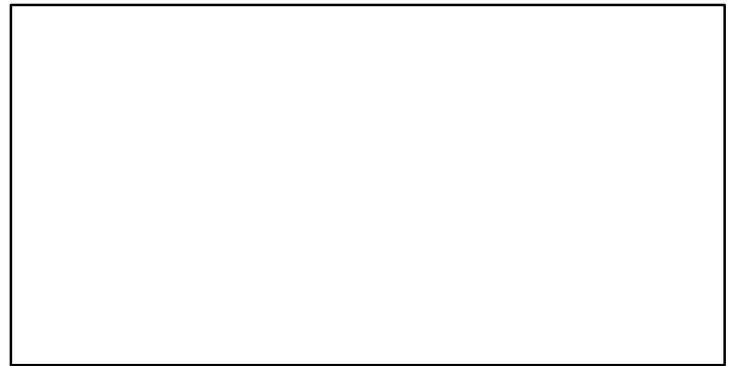
CPUE*



EFFORT*



CdivMSY*



Norway pout IIIa and North Sea [NPOUTIIIa-IV]

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTIIIa-IV-1984-2017-ICESIMP2018
Area	IIIa and 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	2011, 2013, 2014, 2017

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	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2017	39,450
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	497,000	Both	-
SSB	SSB-MT	2017	152,000	Both	-
TN	-	-	-	-	-
R	R-E00	2017	3.72×10^{10}	-	0
F	F-1/yr	2017	0.243	-	1 to 2
ER	ER-calc-ratio	2017	0.061	-	-
TC	TC-MT	2017	30,100		
TL	TL-MT	2017	13,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	2.341		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Norway pout IIIa and North Sea [NPOUTIIIa-IV]

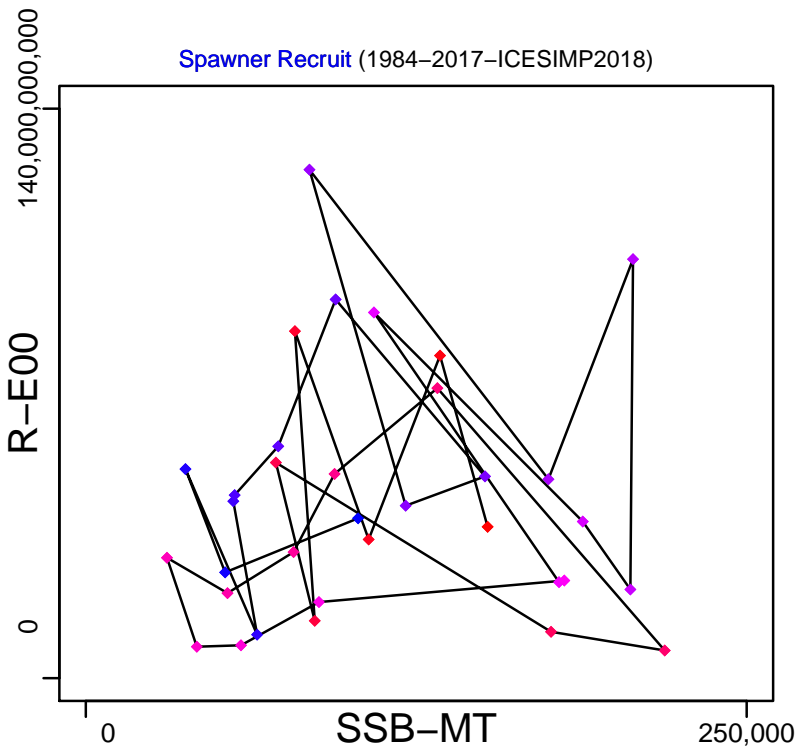
Kobe MSY*



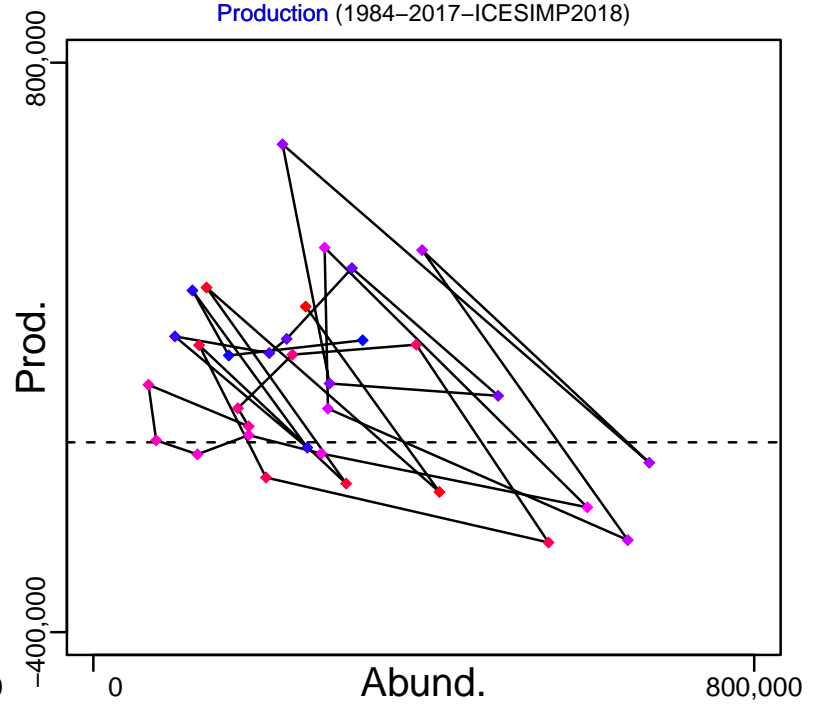
Kobe MGT*



Spawner Recruit (1984–2017–ICESIMP2018)



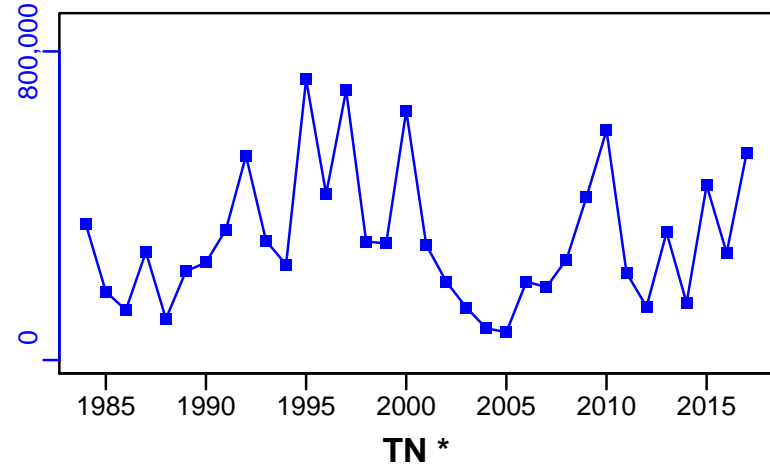
Production (1984–2017–ICESIMP2018)



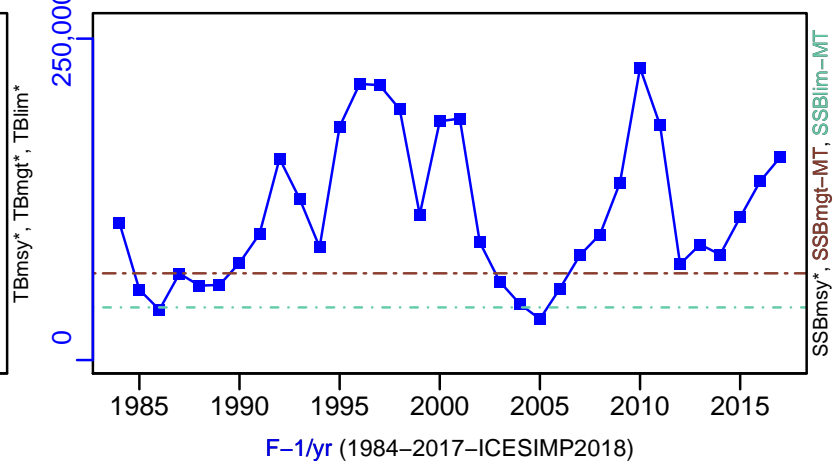
◆ Start Year ◆ End Year * No Data

Norway pout IIIa and North Sea [NPOUTIIIa-IV]

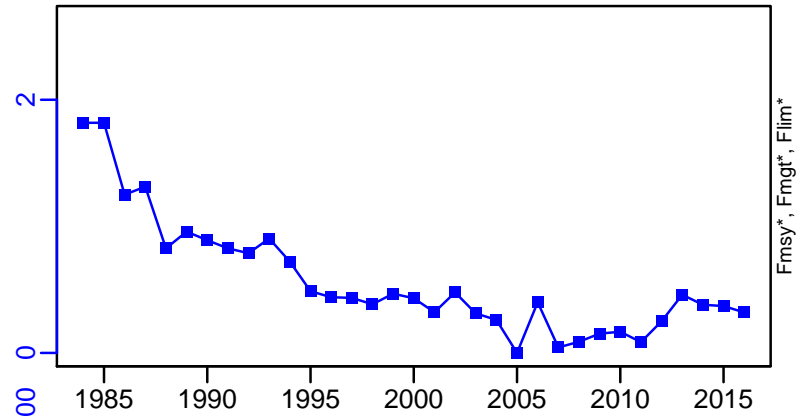
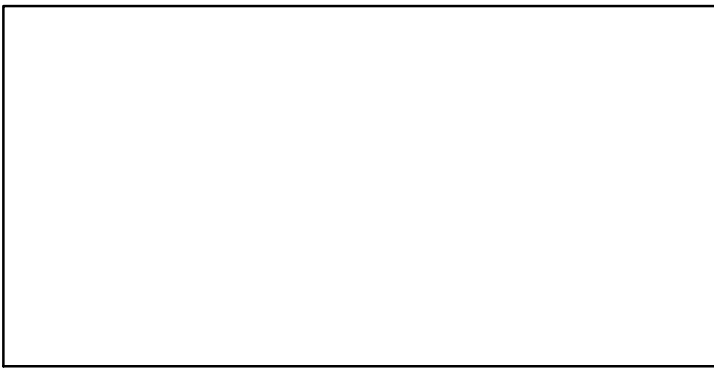
TB-MT (1984–2017–ICESIMP2018)



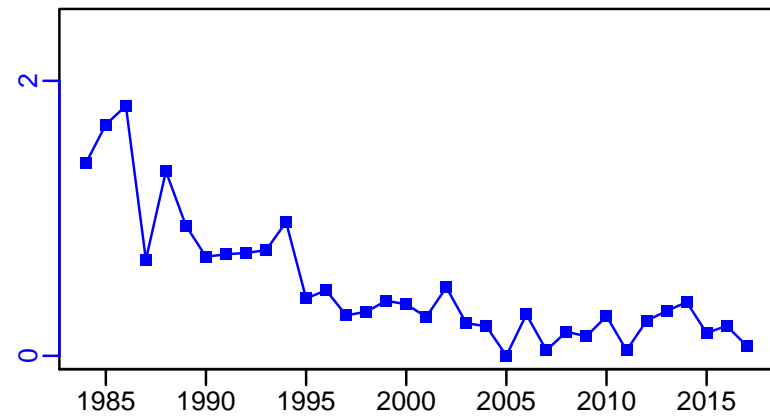
SSB-MT (1984–2017–ICESIMP2018)



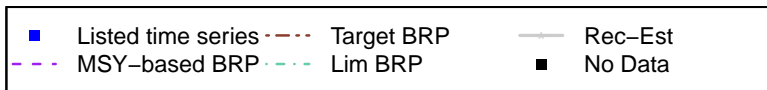
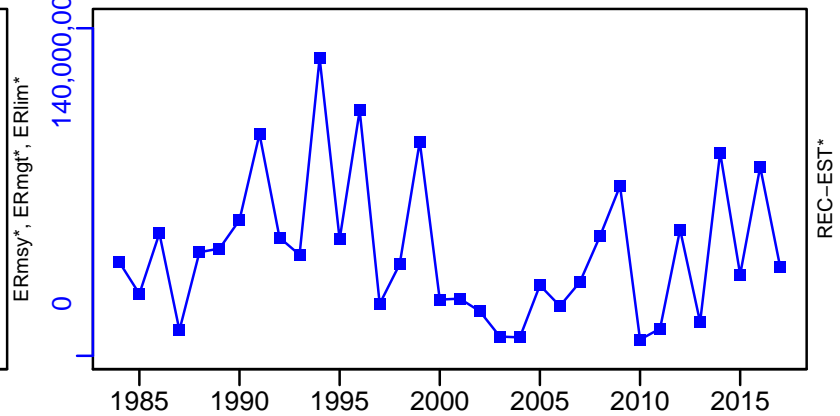
F-1/yr (1984–2017–ICESIMP2018)



ER-calc-ratio (1984–2017–ICESIMP2018)



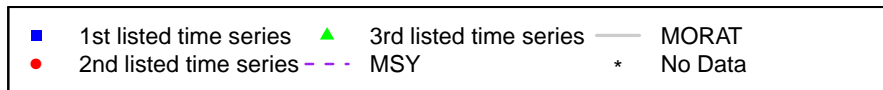
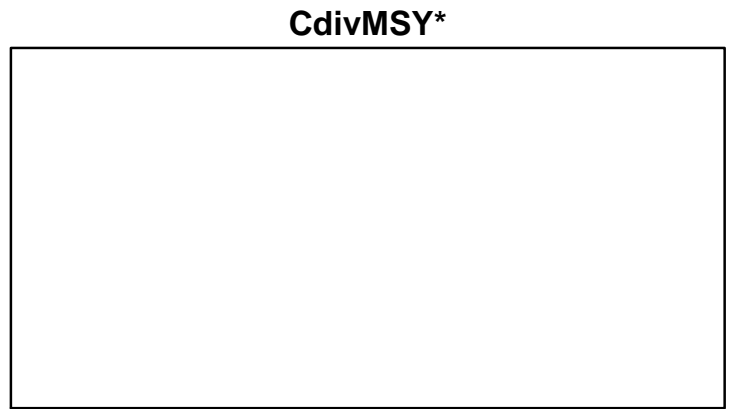
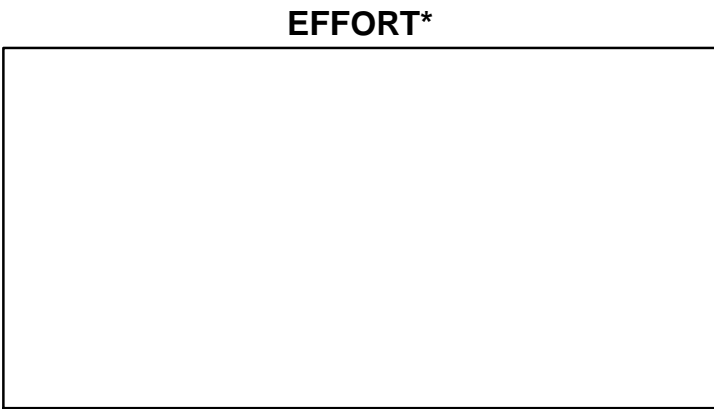
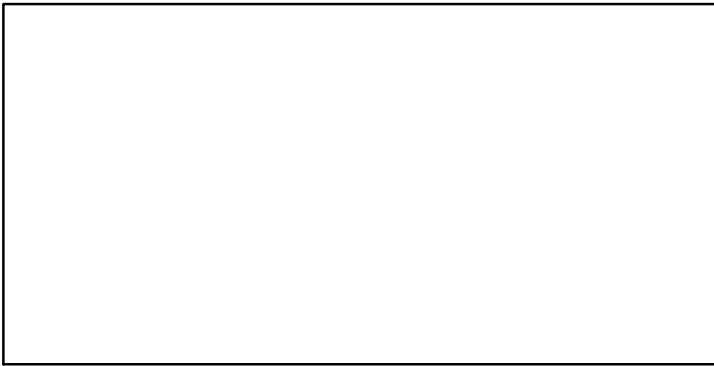
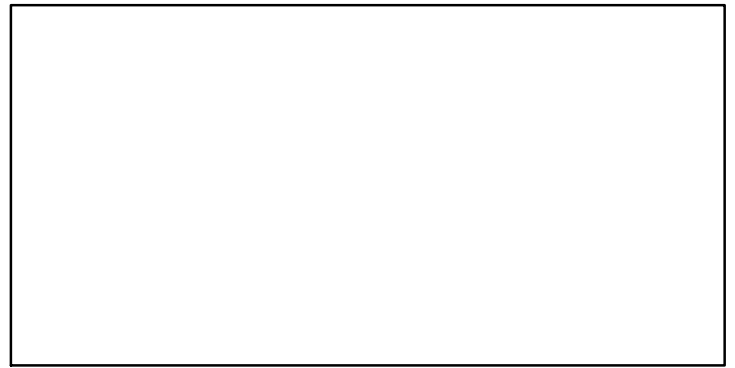
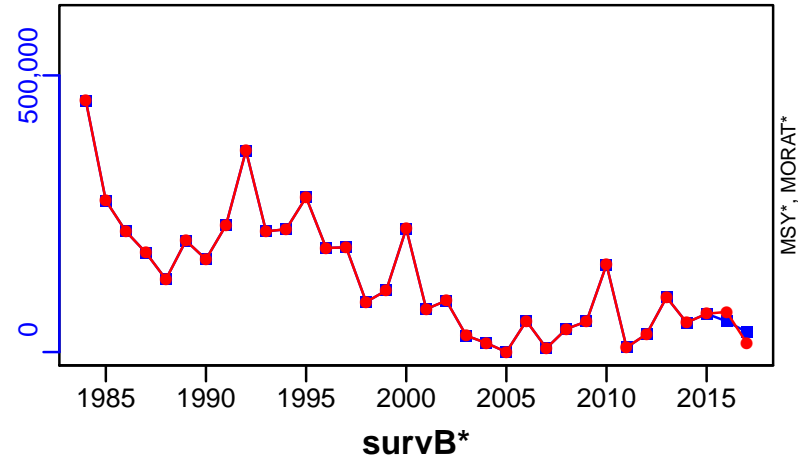
R-E00 (1984–2017–ICESIMP2018)



Norway pout IIIa and North Sea [NPOUTIIIa-IV]

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

TAC*, Cpair*, Cadv*

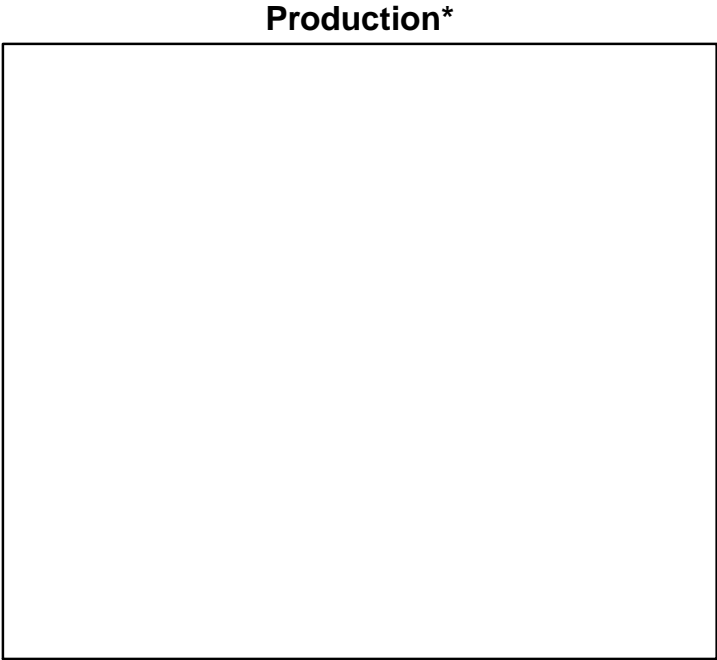
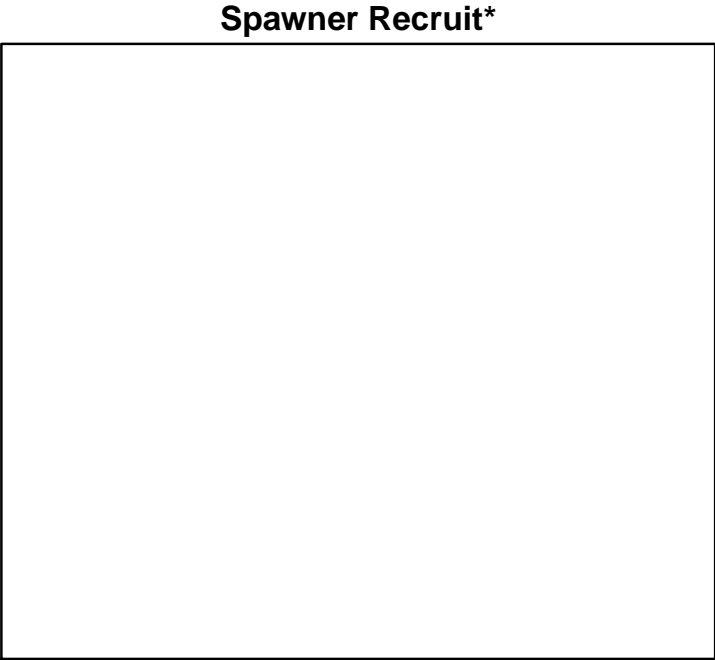
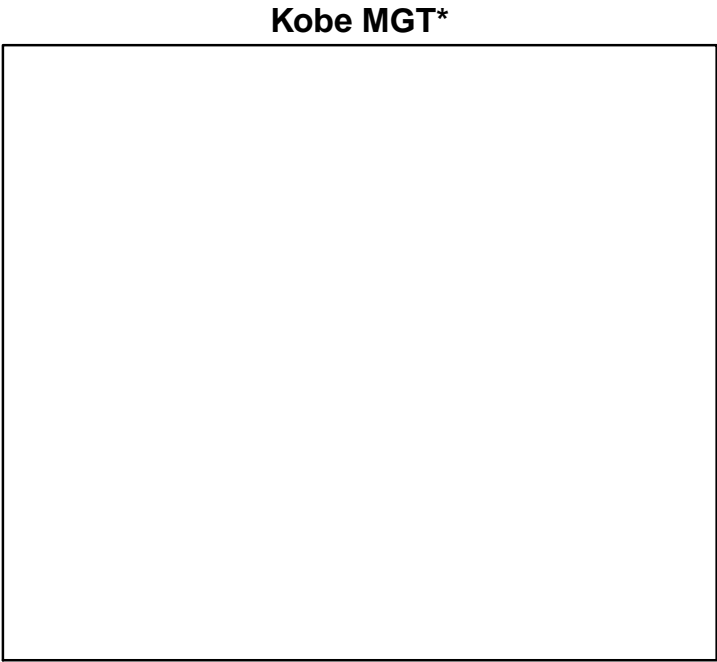
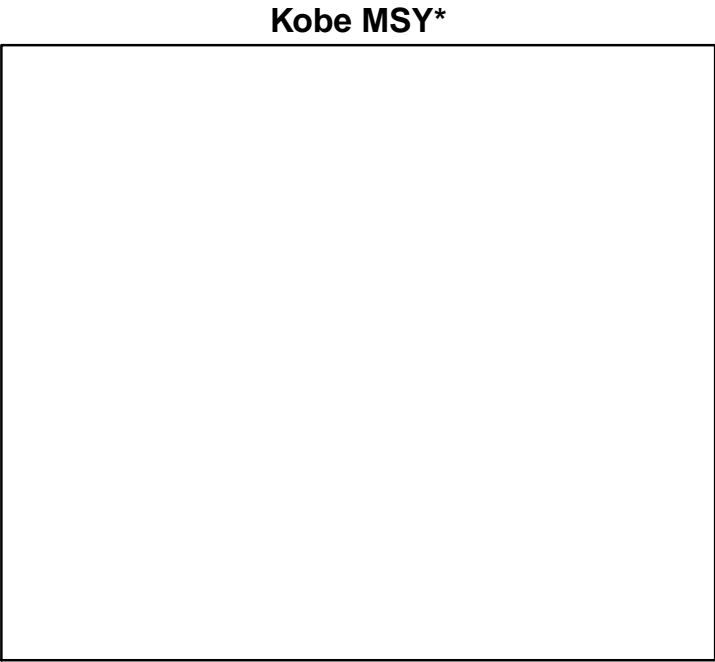


Norway pout Rockall Bank [NPOUTVlb]

Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTVlb-1970-2015-ICESIMP2018
Area	Rockall Bank
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	1.22		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

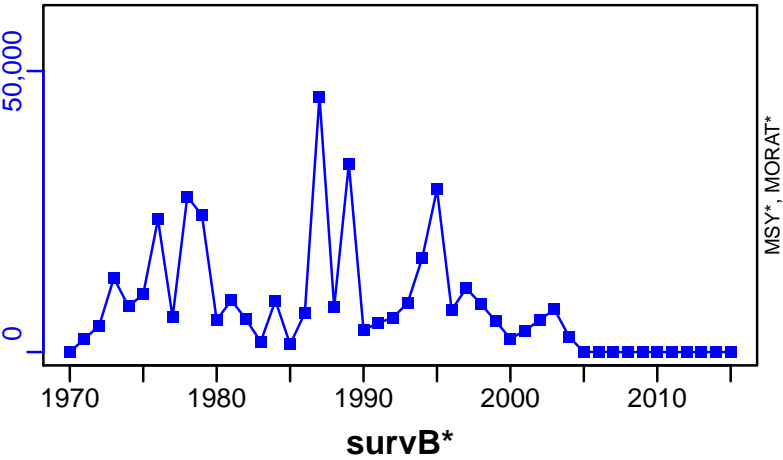


Recruits*



Norway pout Rockall Bank [NPOUTVlb]

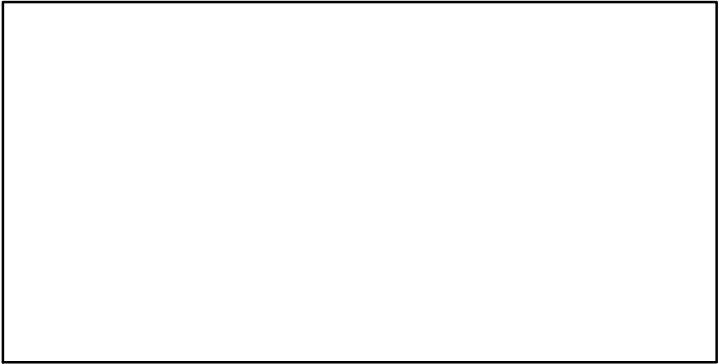
TL-MT, TC*, RecC* (1970-2015-ICESIMP2018)



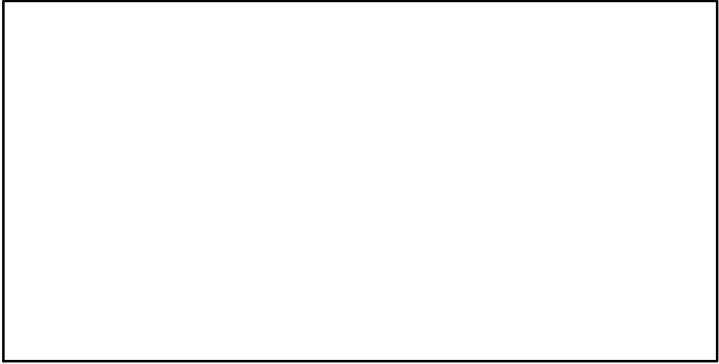
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

Metadata	
Scientific Name	Hoplostethus atlanticus
Current Assess ID	WGDEEP-OROUGHYNEATL-1988-2016-ICESIMP2016
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016

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

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

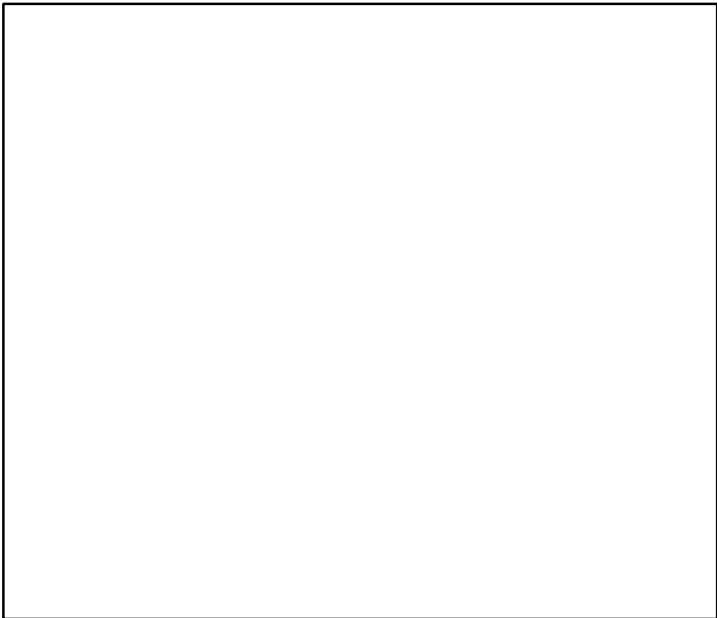
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Orange roughy Northeast Atlantic [OROUGHYNEATL]

TB*



SSB*



TN *



F*



ER*

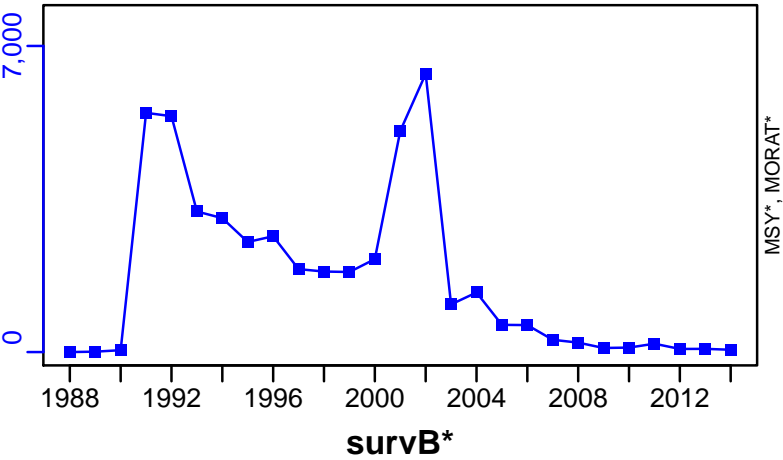


Recruits*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

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



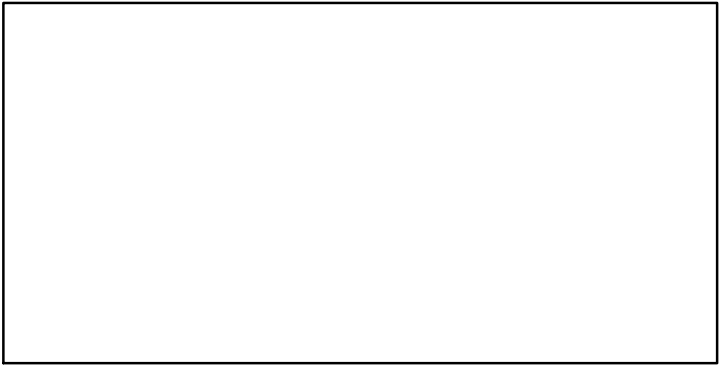
TAC*, Cpair*, Cadv*



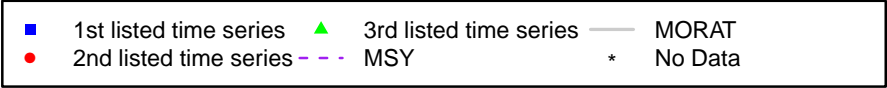
CPUE*



EFFORT*



CdivMSY*



Northern shrimp IIIa (west) and IVa (east) [PANDALIIIaW-IVaE]

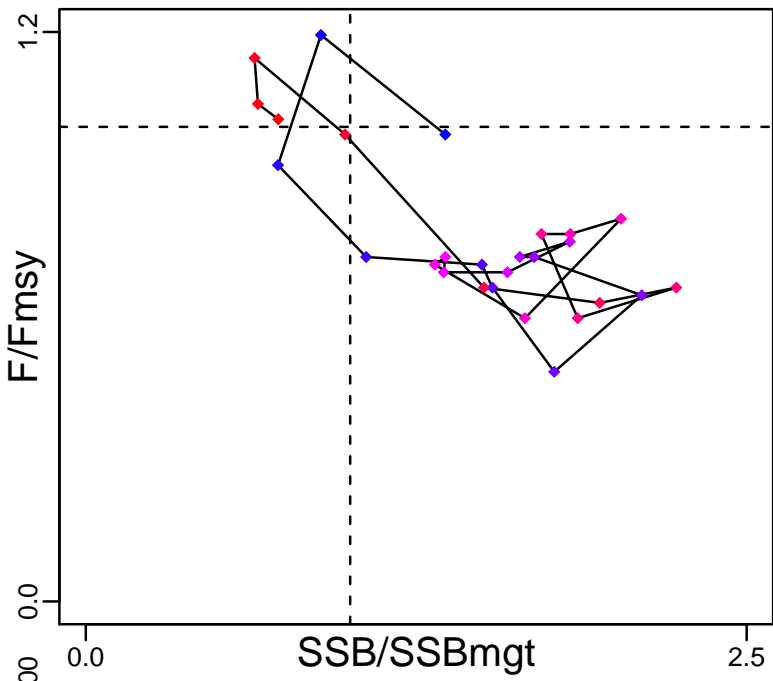
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIIIaW-IVaE-1988-2015-ICESIMP2016
Area	IIIa (west) and IVa (east)
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2013, 2014, 2015

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

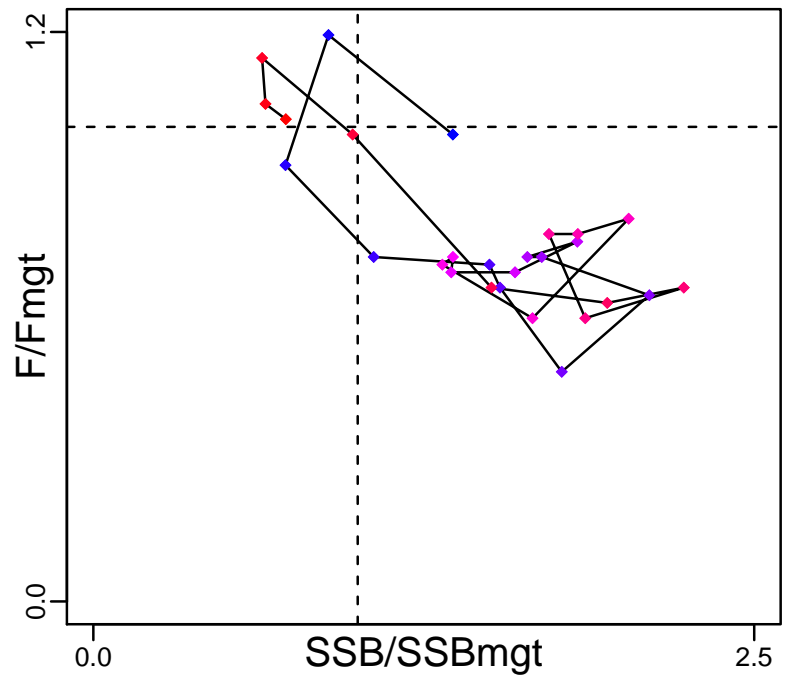
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	29,400	Both	-
SSB	SSB-MT	2015	12,300	Both	-
TN	-	-	-	-	-
R	R-E00	2015	8.59×10^9	-	0
F	F-1/yr	2015	0.63	-	1 to 3
ER	ER-calc-ratio	2015	0.413	-	-
TC	TC-MT	2015	12,100		
TL	TL-MT	2015	9950		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.1		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.016		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.239		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.016		
ER/ERmgt	-	-	-		

Northern shrimp IIIa (west) and IVa (east) [PANDALIIIaW-IVaE]

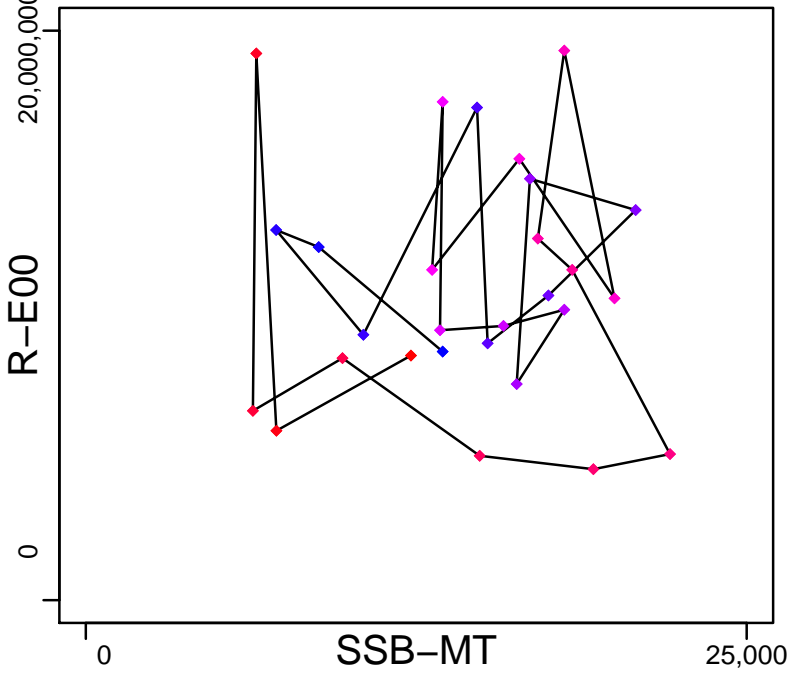
Kobe MSYpref (1988–2015–ICESIMP2016)



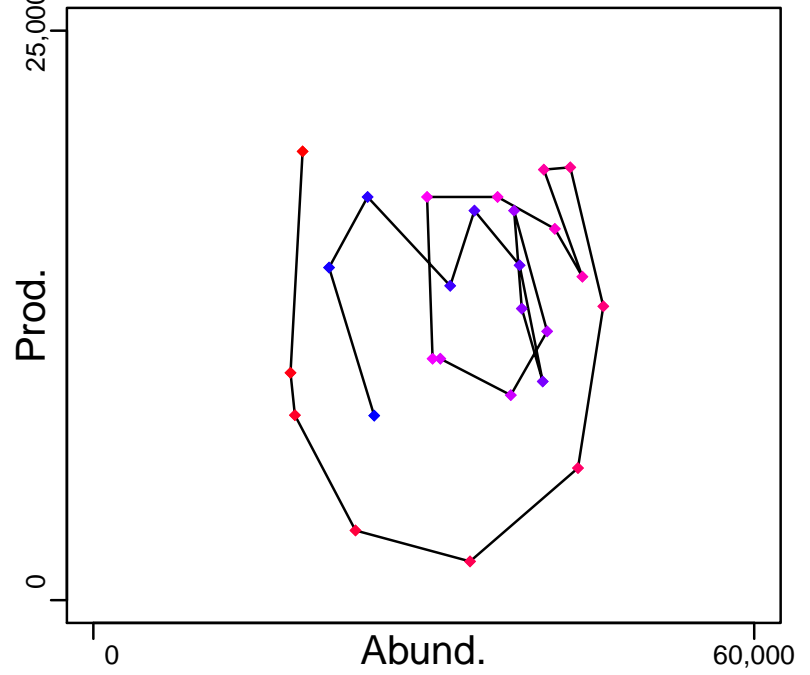
Kobe MGTpref (1988–2015–ICESIMP2016)



Spawner Recruit (1988–2015–ICESIMP2016)



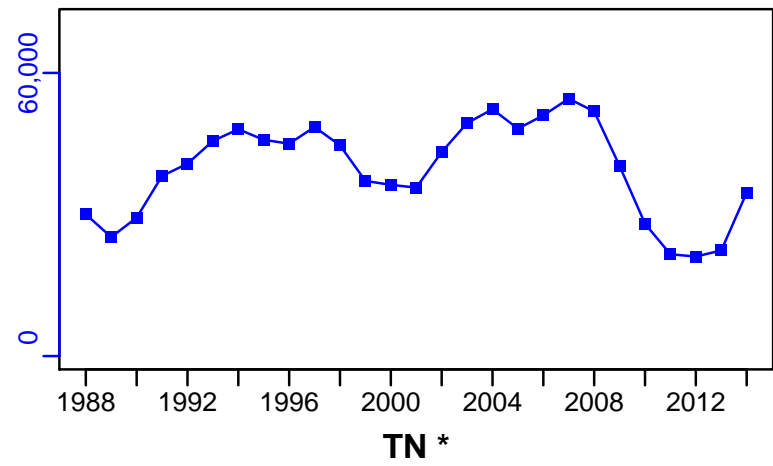
Production (1988–2015–ICESIMP2016)



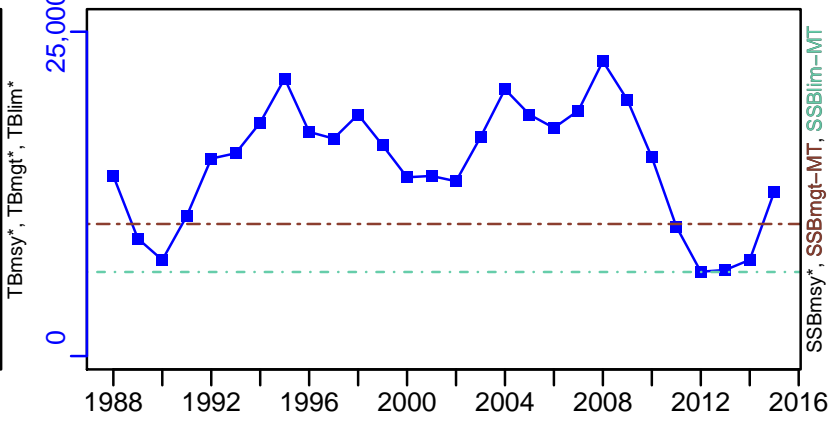
◆ Start Year ◆ End Year * No Data

Northern shrimp IIIa (west) and IVa (east) [PANDALIIIaW-IVaE]

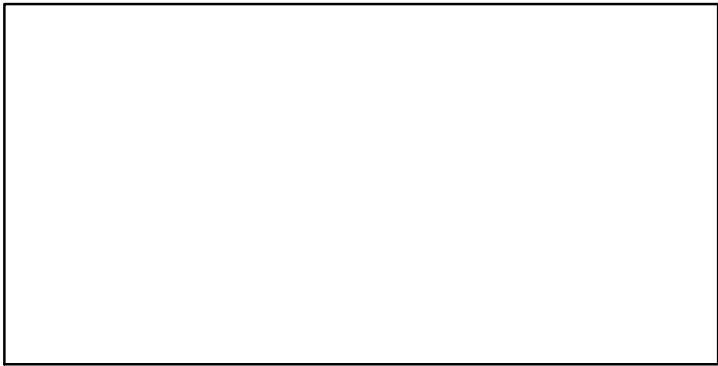
TB-MT (1988–2015–ICESIMP2016)



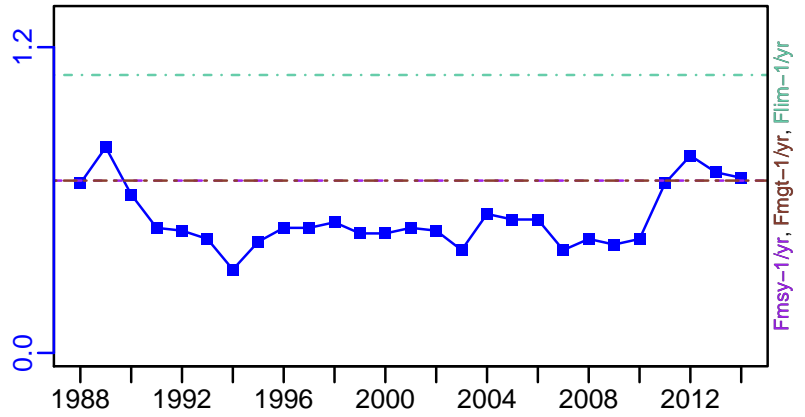
SSB-MT (1988–2015–ICESIMP2016)



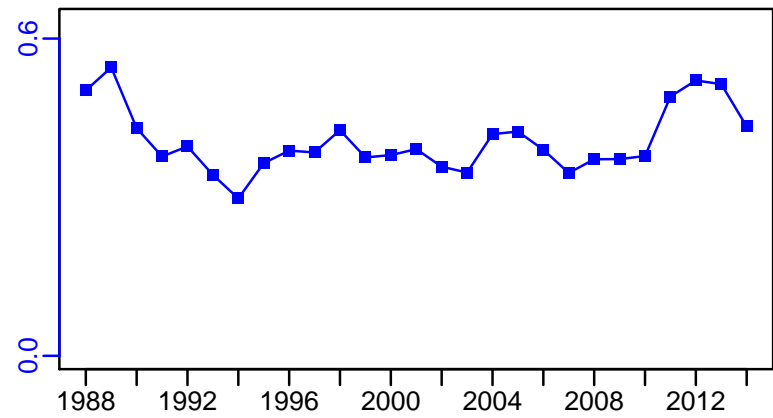
TN *



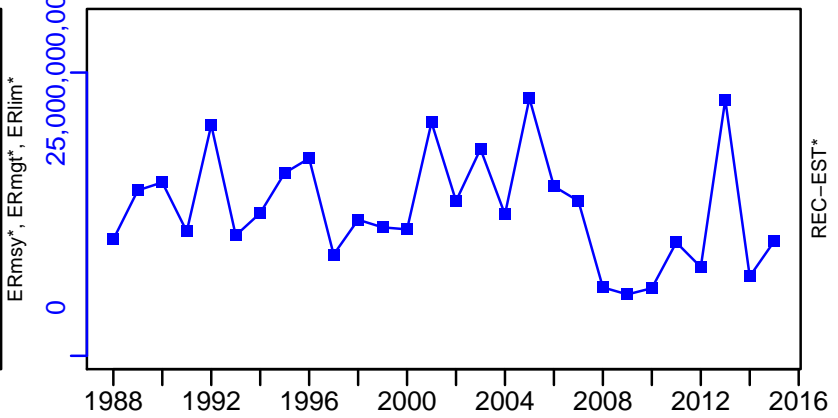
F-1/yr (1988–2015–ICESIMP2016)



ER-calc-ratio (1988–2015–ICESIMP2016)



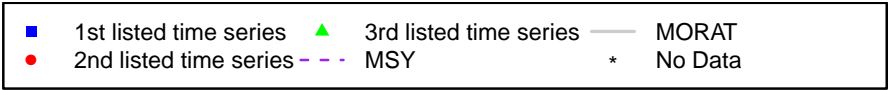
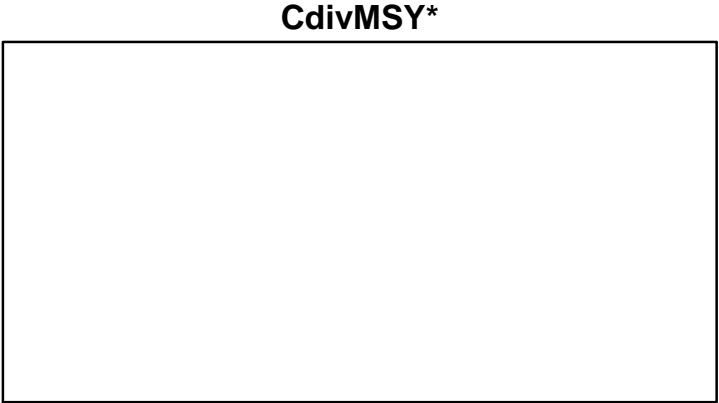
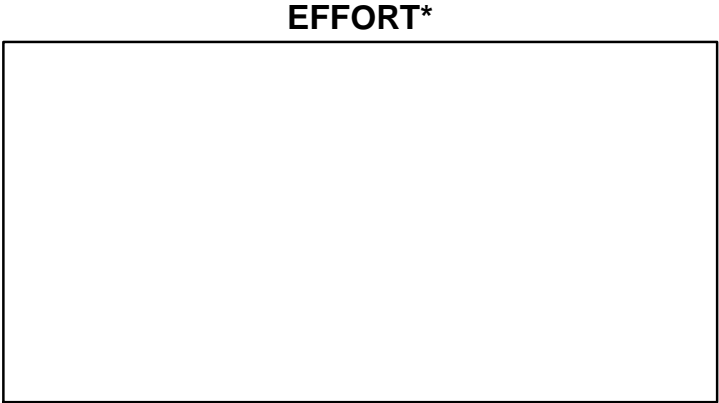
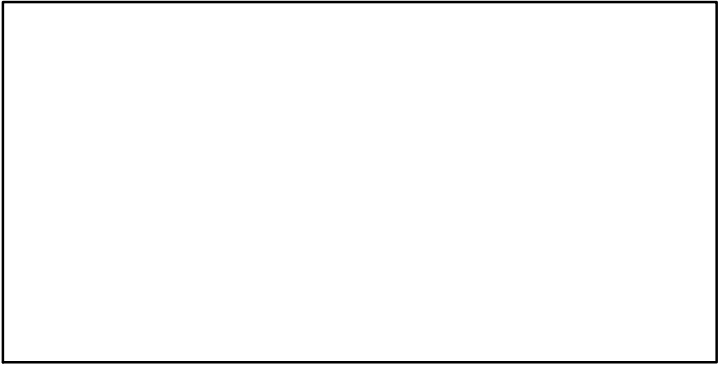
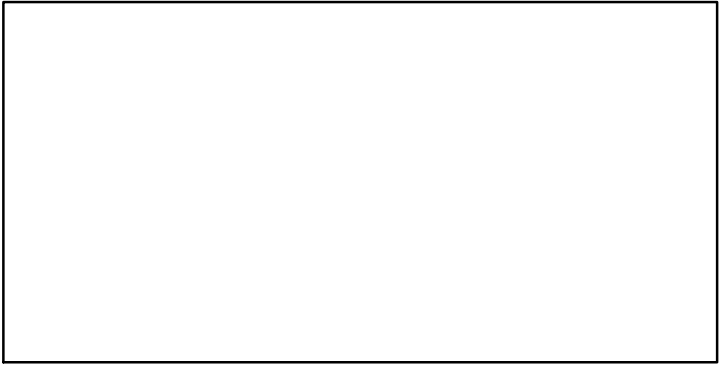
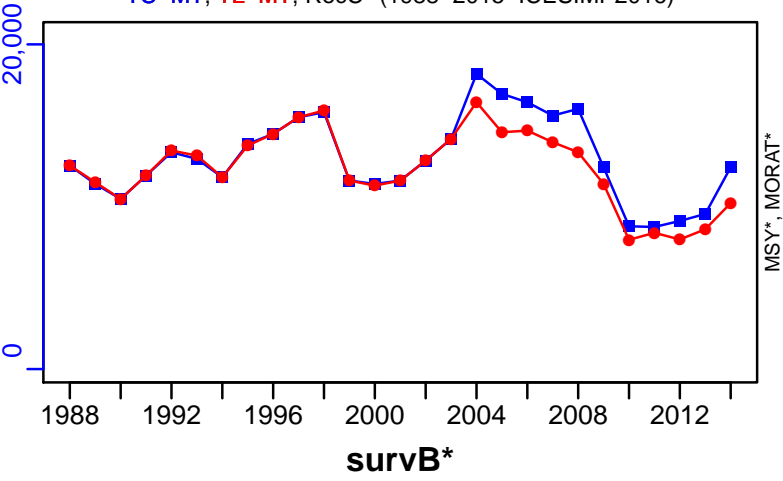
R-E00 (1988–2015–ICESIMP2016)



Northern shrimp IIIa (west) and IVa (east) [PANDALIIIaW-IVaE]

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

TAC*, Cpair*, Cadv*



Northern shrimp Northern North Sea [PANDALIVa]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIVa-1970-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

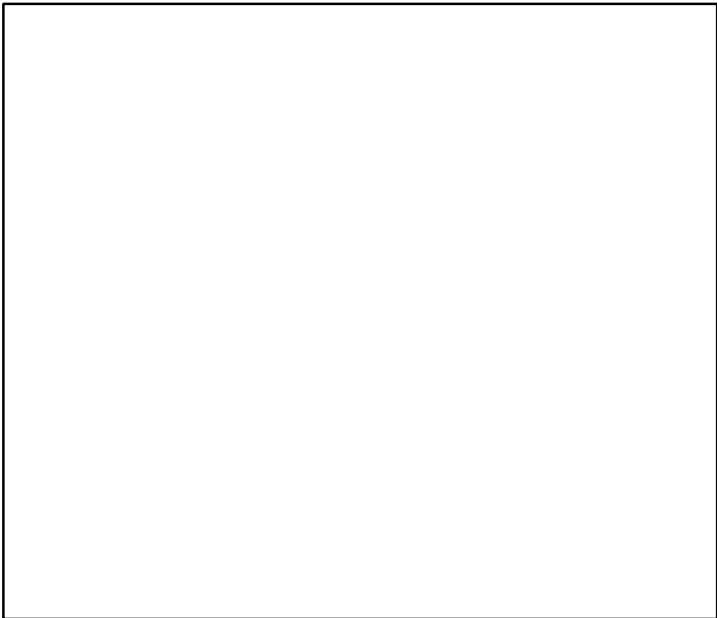
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

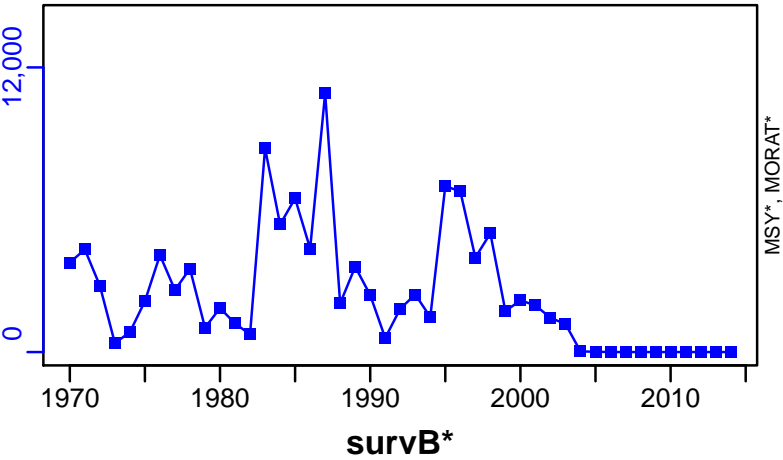


Recruits*



Northern shrimp Northern North Sea [PANDALIVa]

TL-MT, TC*, RecC* (1970-2015-ICESIMP2016)



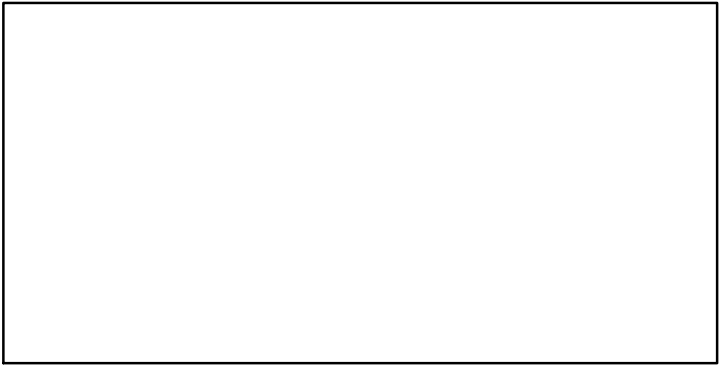
TAC*, Cpair*, Cadv*



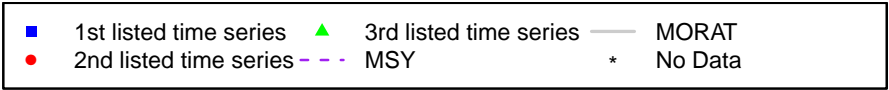
CPUE*



EFFORT*



CdivMSY*



European Plaice Subdivisions 21-23 [PLAIC2123]

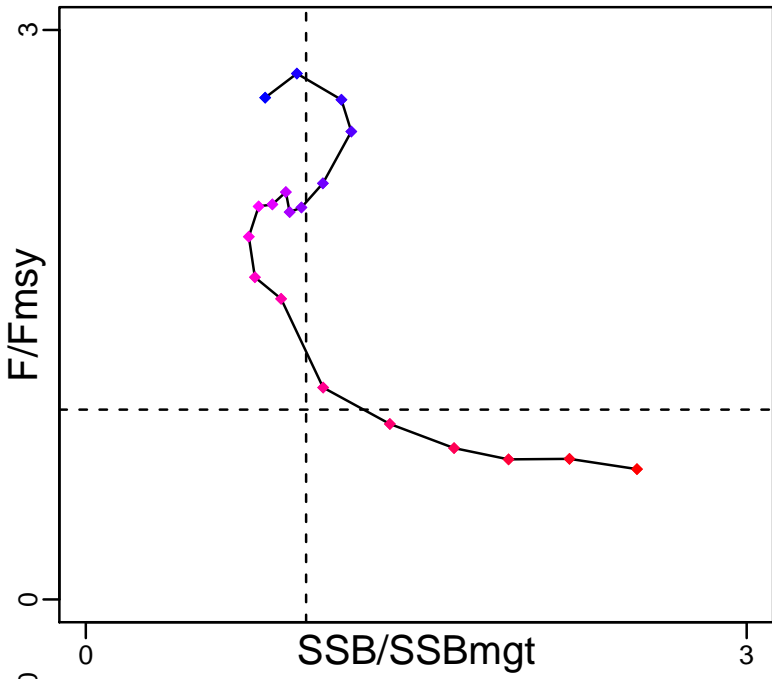
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2123-1998-2018-ICESIMP2018
Area	Subdivisions 21-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2015, 2016, 2017, 2018

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

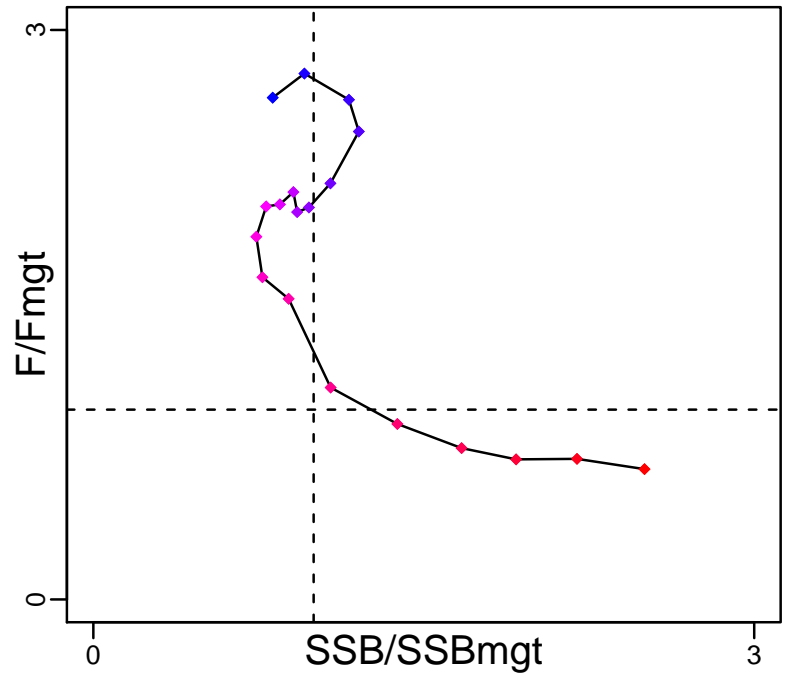
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	21,700	Both	-
SSB	SSB-MT	2018	16,900	Both	-
TN	-	-	-	-	-
R	R-E00	2018	82,900,000	-	1
F	F-1/yr	2018	0.254	-	3 to 5
ER	ER-calc-ratio	2018	0.238	-	-
TC	TC-MT	2018	4240		
TL	TL-MT	2018	3250		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.686		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	3.037		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.686		
ER/ERmgt	-	-	-		

European Plaice Subdivisions 21–23 [PLAIC2123]

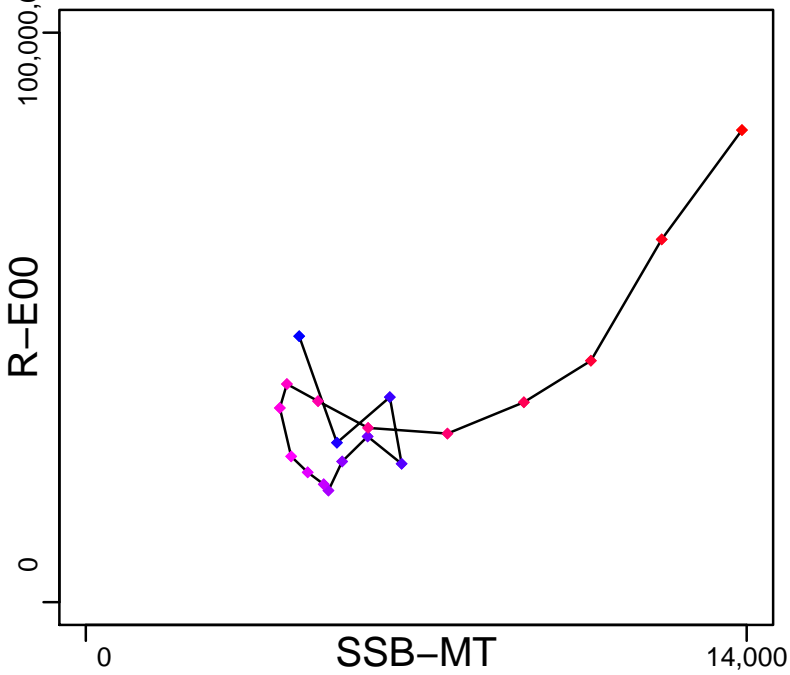
Kobe MSYpref (1998–2018–ICESIMP2018)



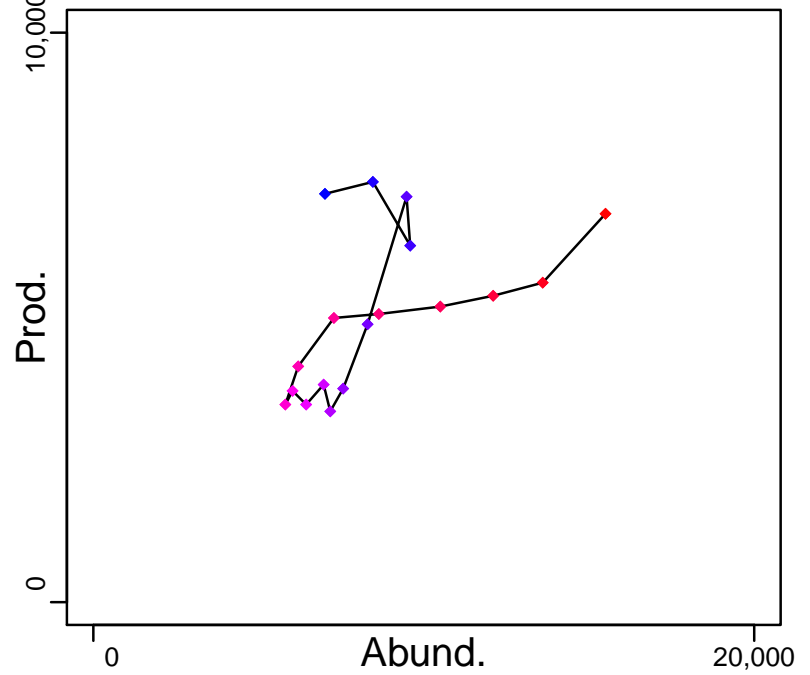
Kobe MGTpref (1998–2018–ICESIMP2018)



Spawner Recruit (1998–2018–ICESIMP2018)



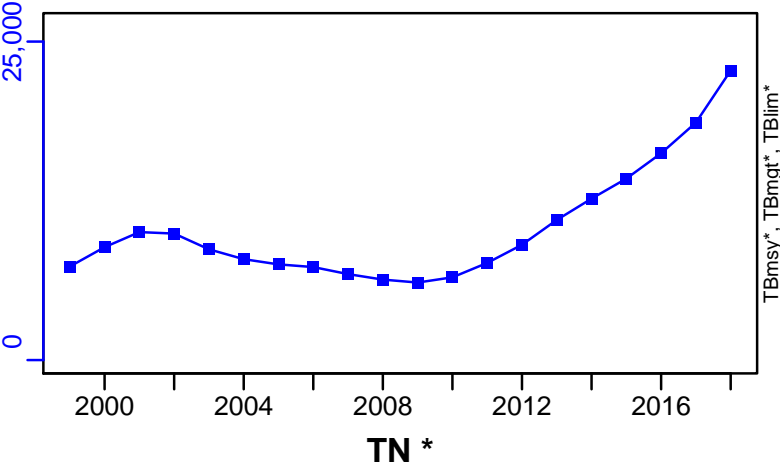
Production (1998–2018–ICESIMP2018)



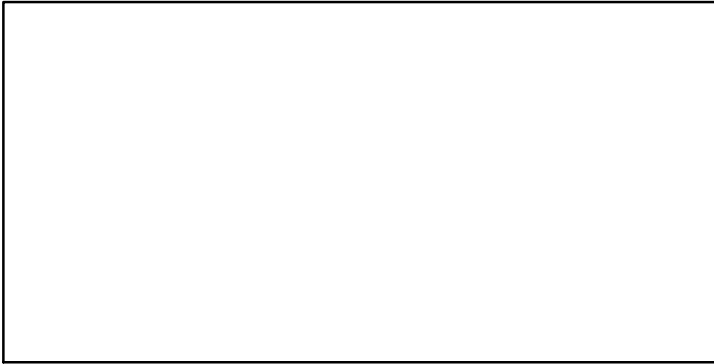
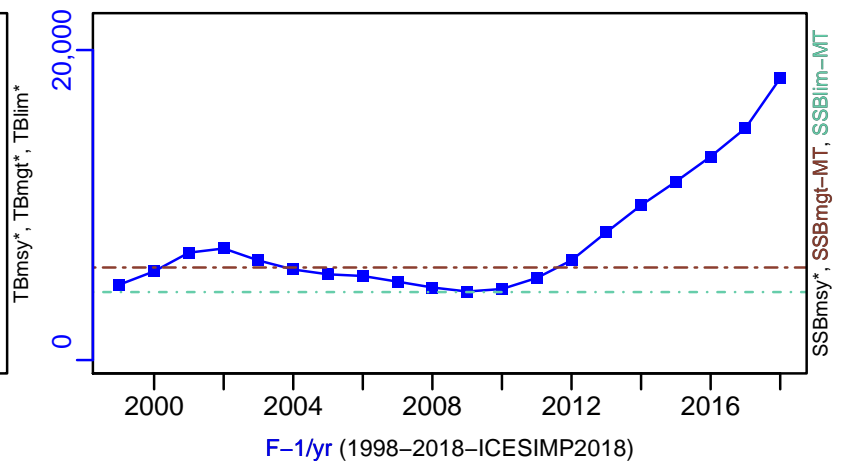
◆ Start Year ◆ End Year * No Data

European Plaice Subdivisions 21–23 [PLAIC2123]

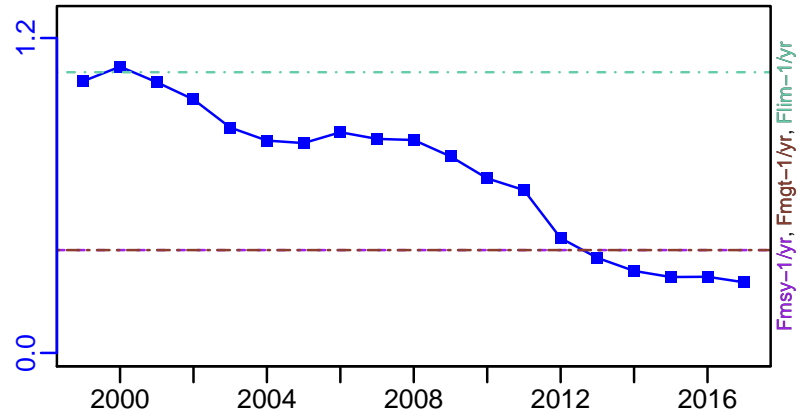
TB-MT (1998–2018–ICESIMP2018)



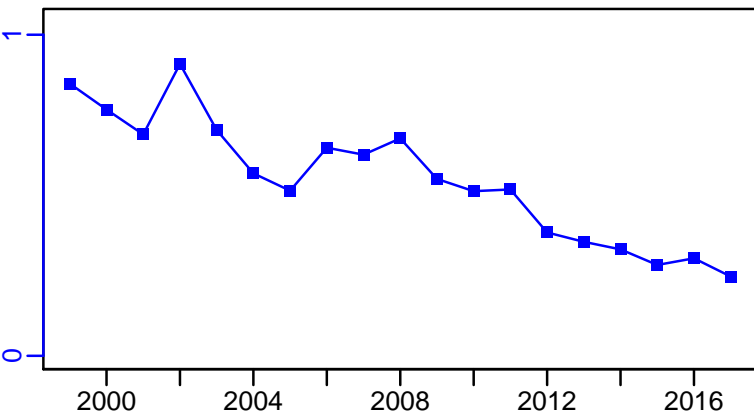
SSB-MT (1998–2018–ICESIMP2018)



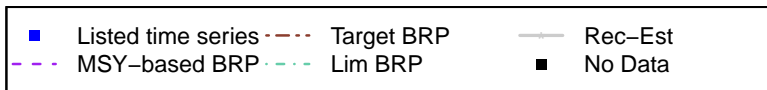
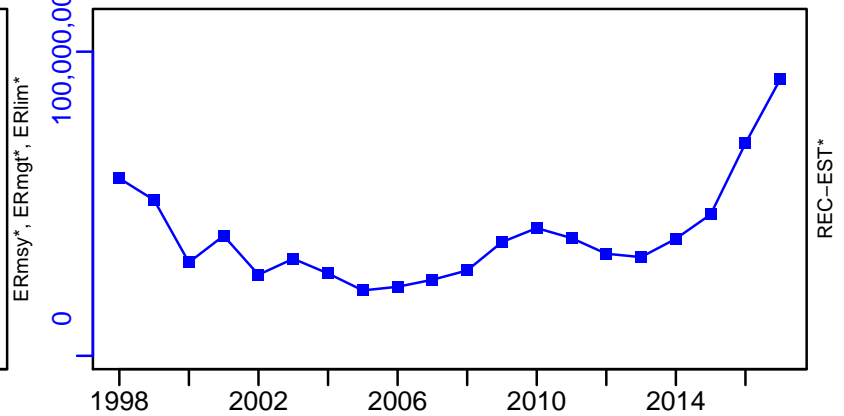
F-1/yr (1998–2018–ICESIMP2018)



ER-calc-ratio (1998–2018–ICESIMP2018)



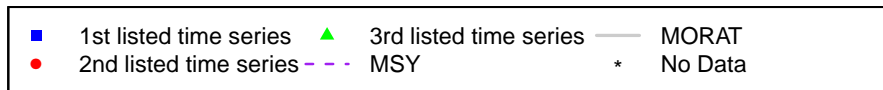
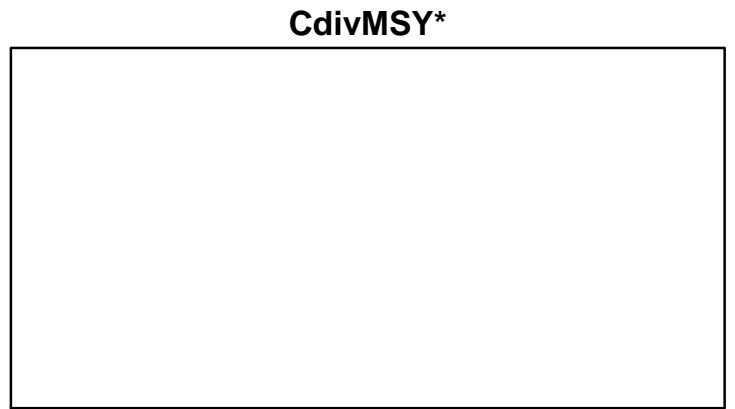
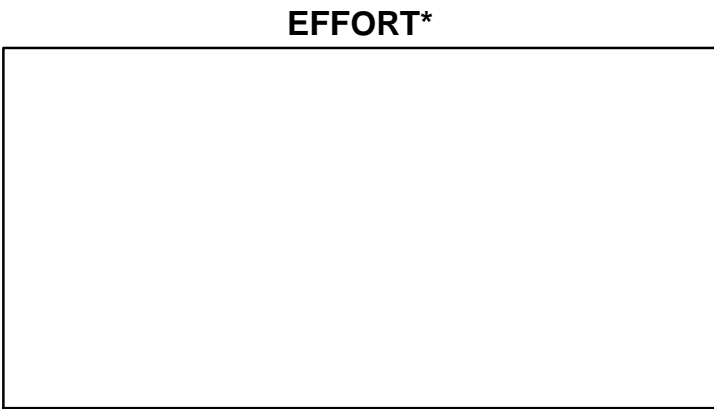
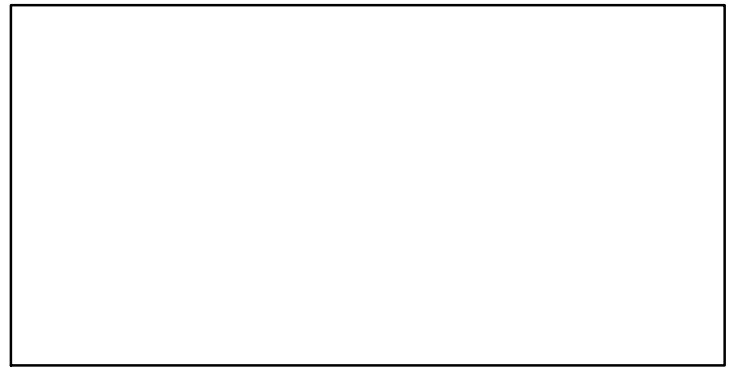
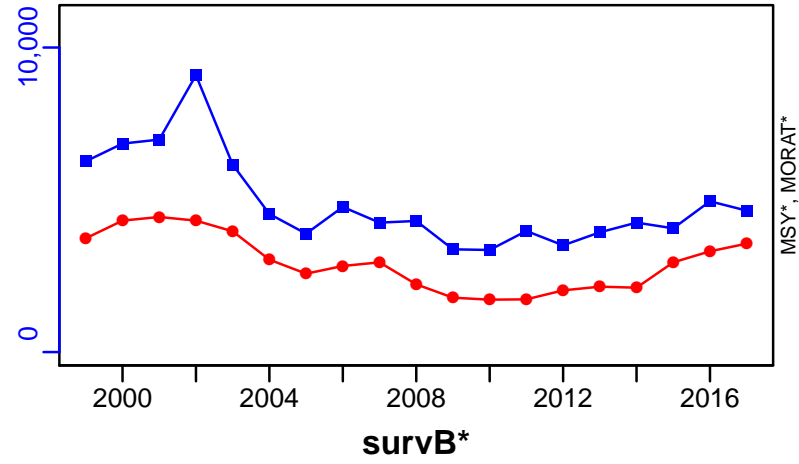
R-E00 (1998–2018–ICESIMP2018)



European Plaice Subdivisions 21–23 [PLAIC2123]

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

TAC*, Cpair*, Cadv*



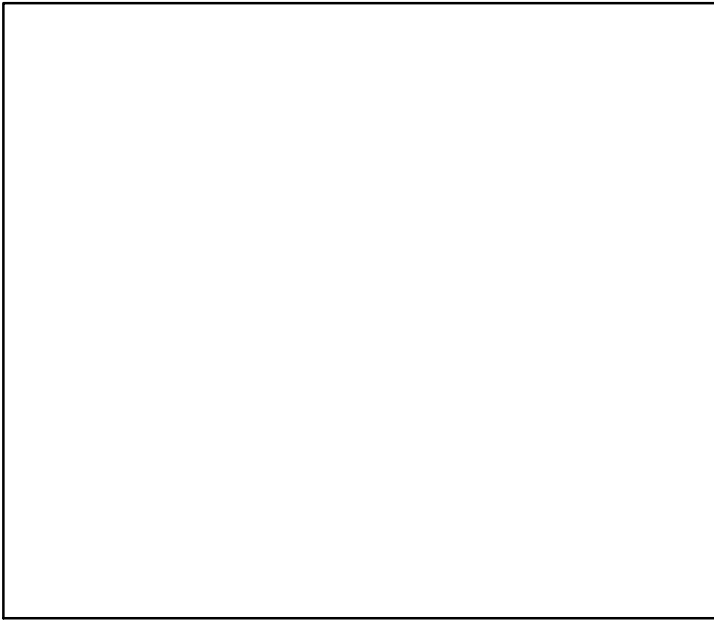
European Plaice Subdivisions 24-32 [PLAIC2432]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2432-2001-2018-ICESIMP2018
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

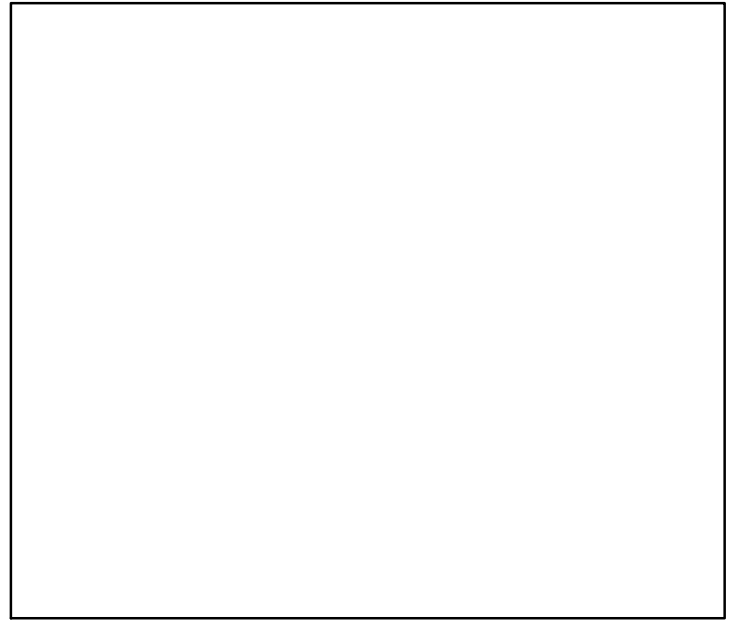
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	2.82	Both	-
SSB	SSB-relative	2018	3.43	Both	-
TN	-	-	-	-	-
R	R-relative	2018	3.03	-	1
F	F-relative	2018	0.358	-	2 to 5
ER	ER-calc-ratio	2018	364.437	-	-
TC	TC-MT	2018	1030		
TL	TL-MT	2018	650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

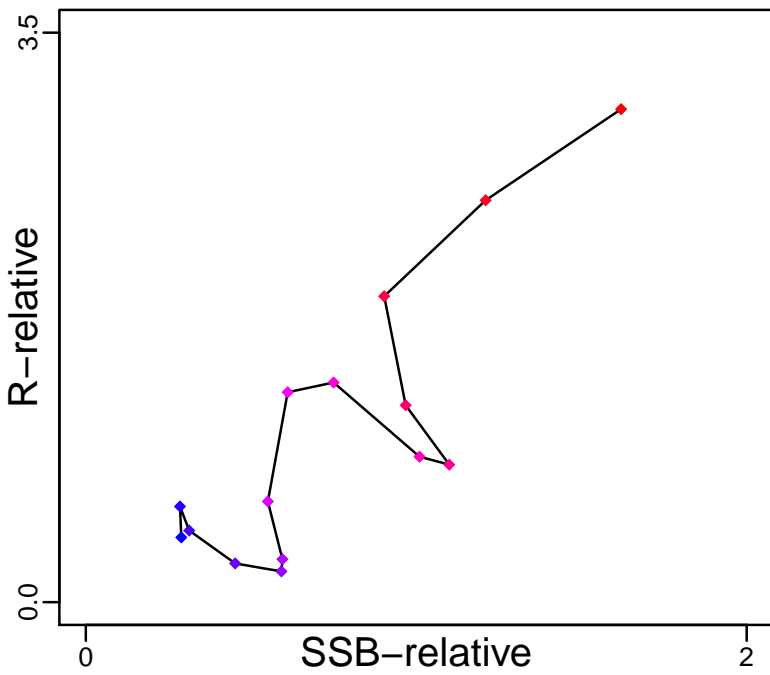
Kobe MSY*



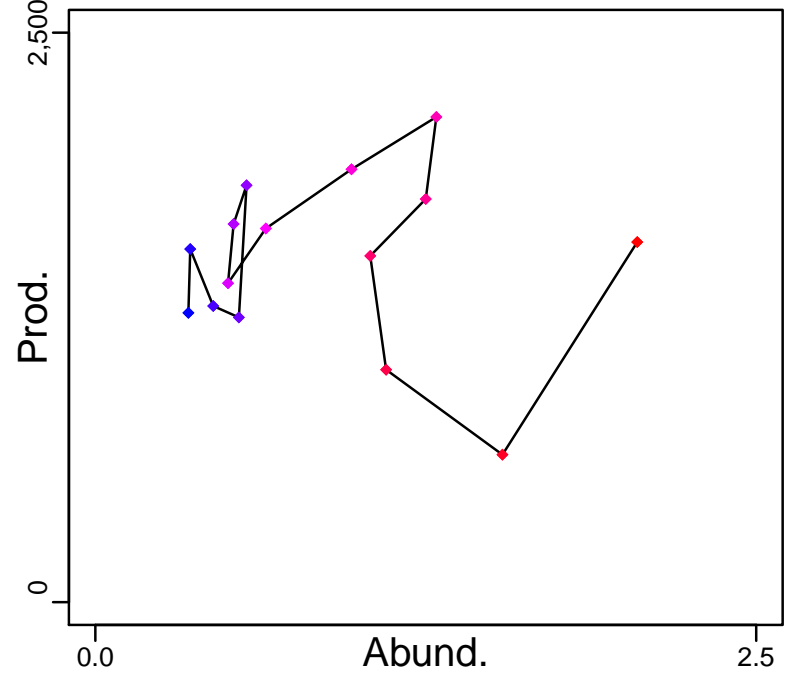
Kobe MGT*



Spawner Recruit (2001–2018–ICESIMP2018)



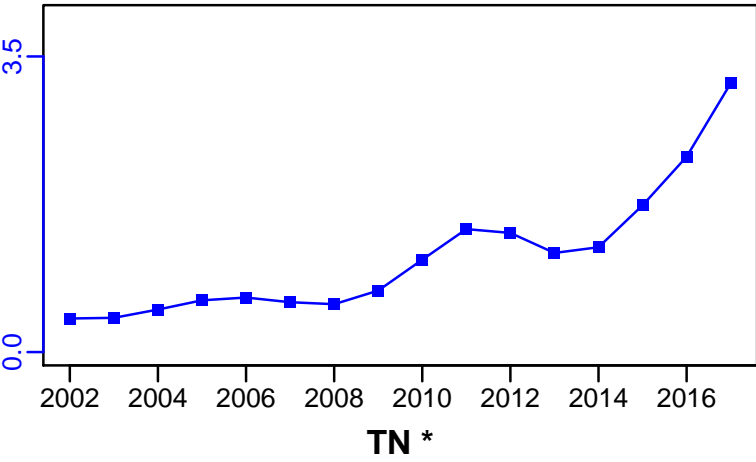
Production (2001–2018–ICESIMP2018)



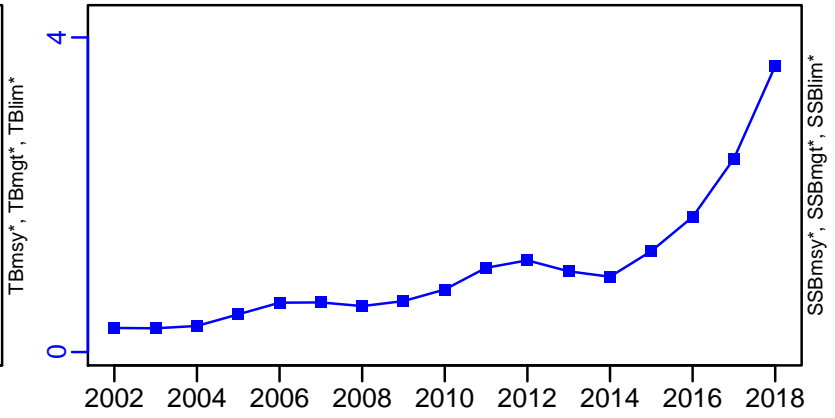
◆ Start Year ◆ End Year * No Data

European Plaice Subdivisions 24–32 [PLAIC2432]

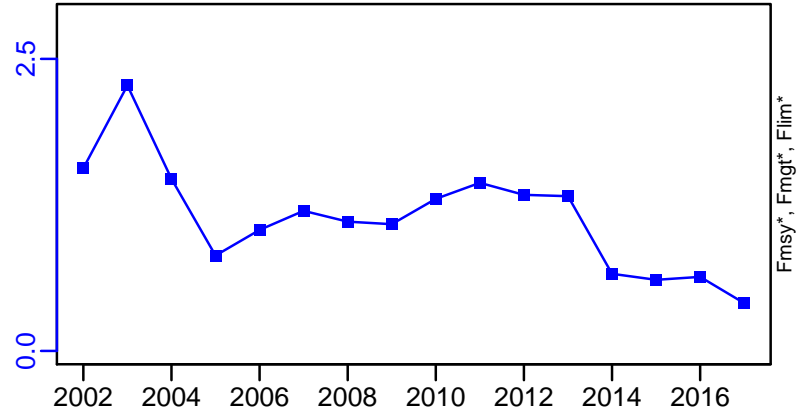
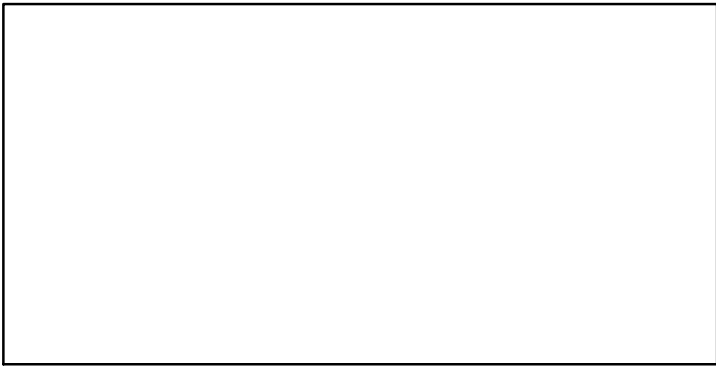
TB-MT (2001–2018–ICESIMP2018)



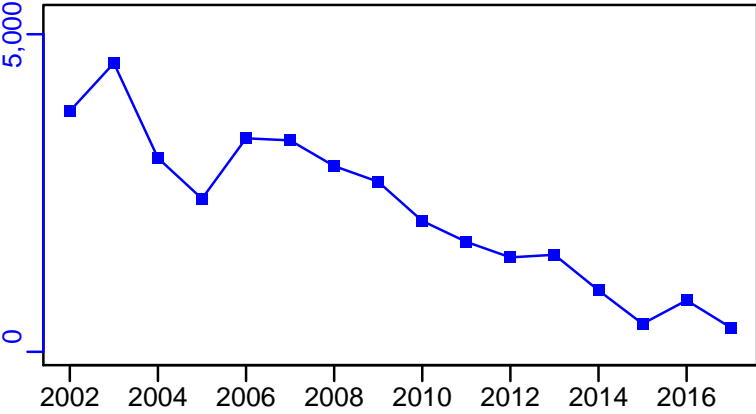
SSB-relative (2001–2018–ICESIMP2018)



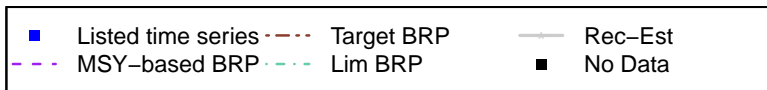
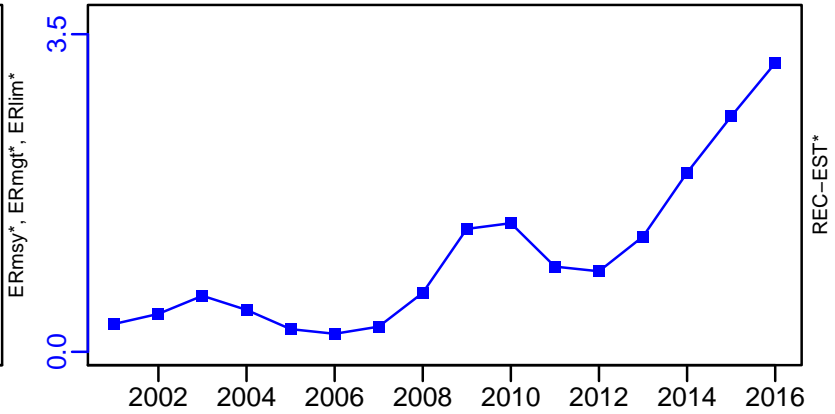
F-relative (2001–2018–ICESIMP2018)



ER-calc-ratio (2001–2018–ICESIMP2018)

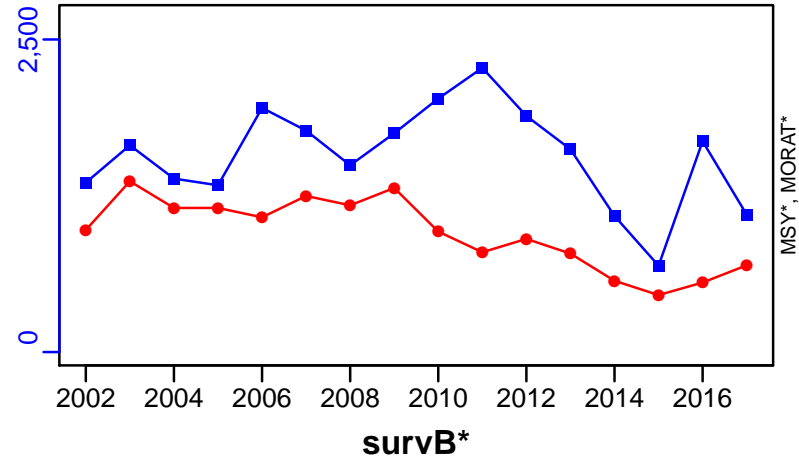


R-relative (2001–2018–ICESIMP2018)

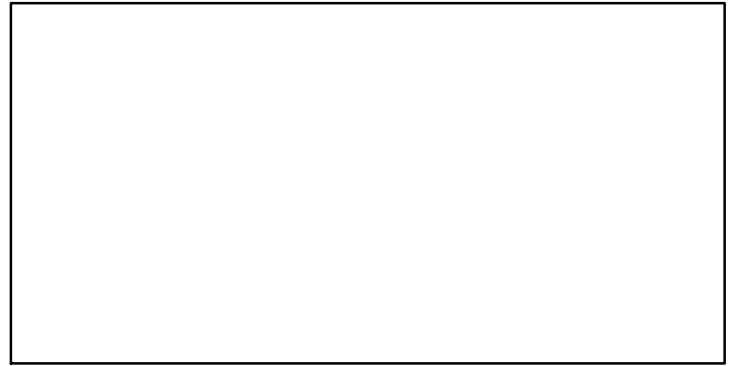


European Plaice Subdivisions 24–32 [PLAIC2432]

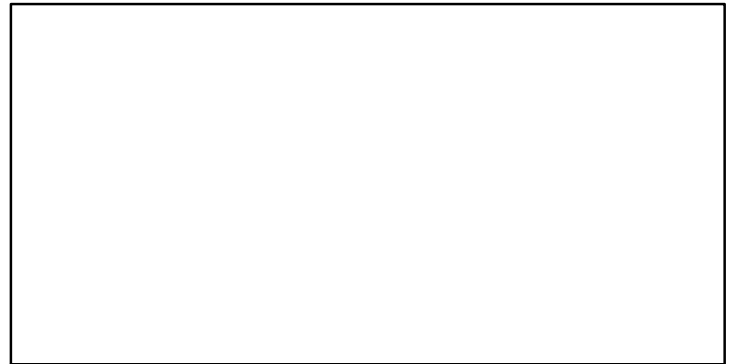
TC–MT, TL–MT, RecC* (2001–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



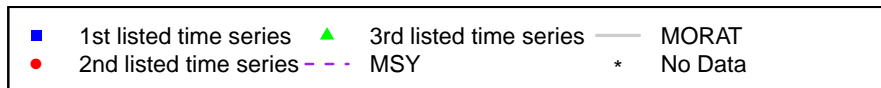
CPUE*



EFFORT*



CdivMSY*



European Plaice ICES Vild [PLAIC7d]

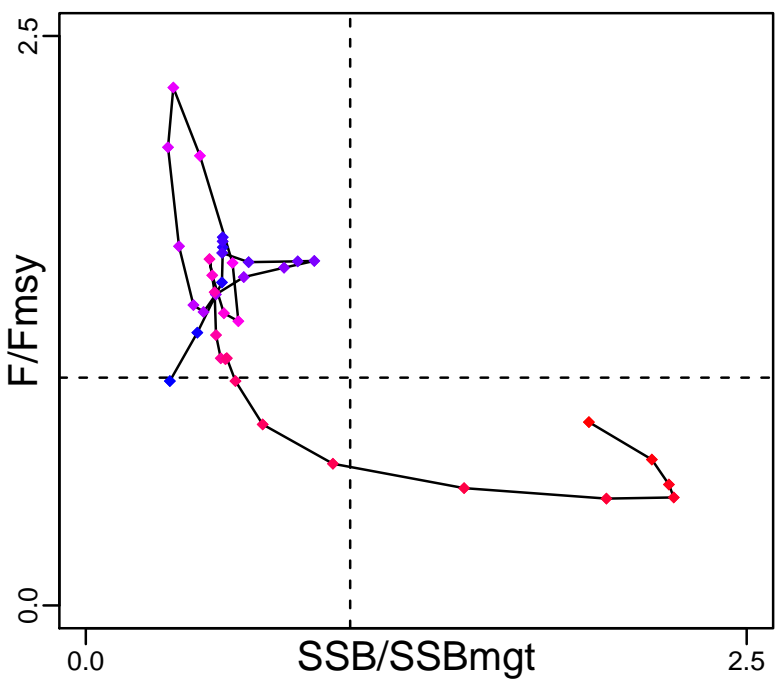
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAIC7d-1979-2018-ICESIMP2018
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

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

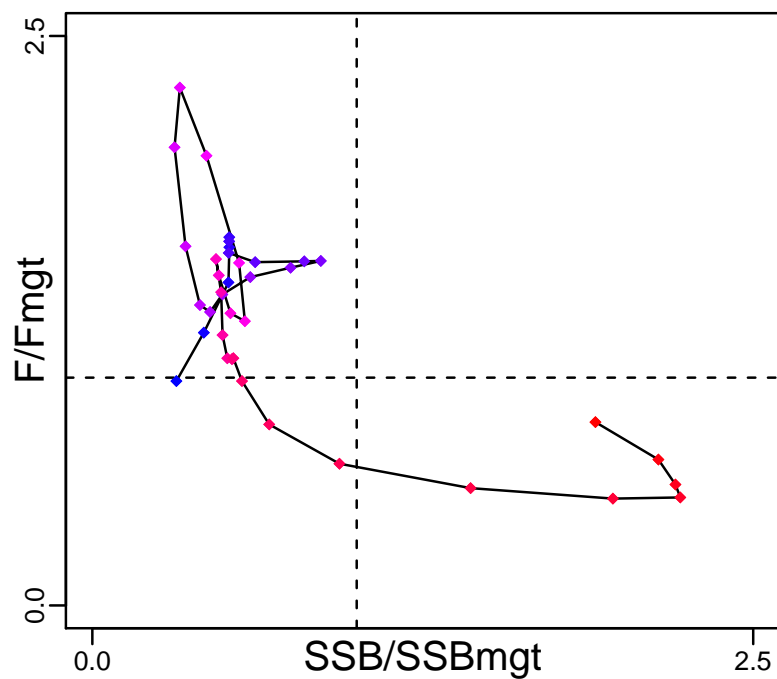
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	9230	Both	1+
SSB	SSB-MT	2018	47,700	Both	-
TN	-	-	-	-	-
R	R-E00	2018	70,100,000	-	1
F	F-1/yr	2018	0.201	-	3 to 6
ER	ER-ratio	2010	0.344	-	-
TC	TC-MT	2018	7760		
TL	TL-MT	2018	3690		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.805		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.846		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.805		
ER/ERmgt	-	-	-		

European Plaice ICES VIId [PLAIC7d]

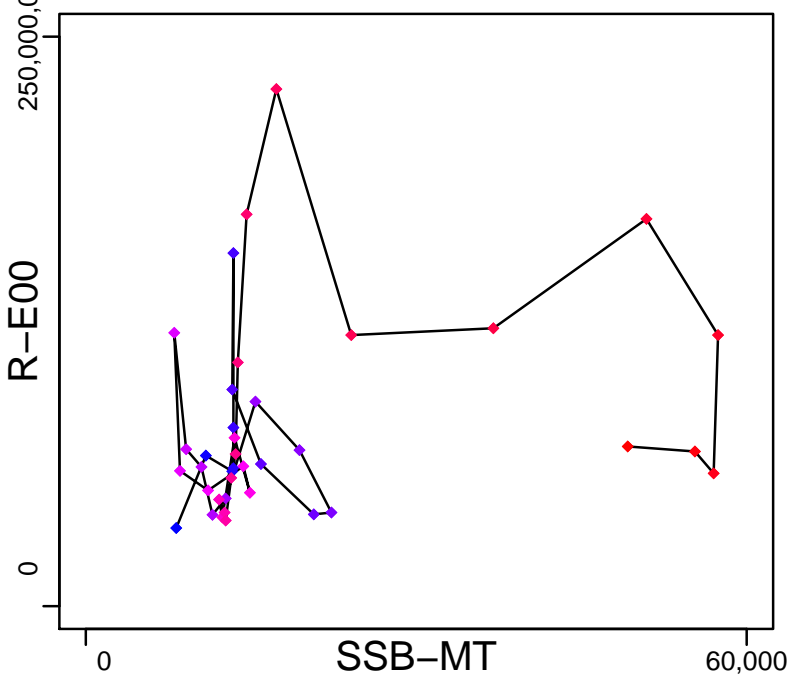
Kobe MSYpref (1979–2018–ICESIMP2018)



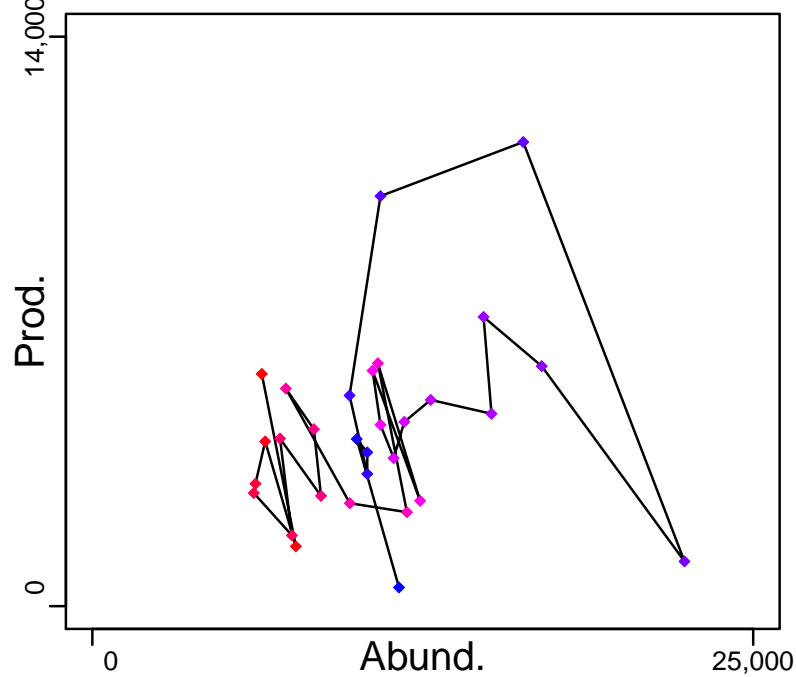
Kobe MGTpref (1979–2018–ICESIMP2018)



Spawner Recruit (1979–2018–ICESIMP2018)



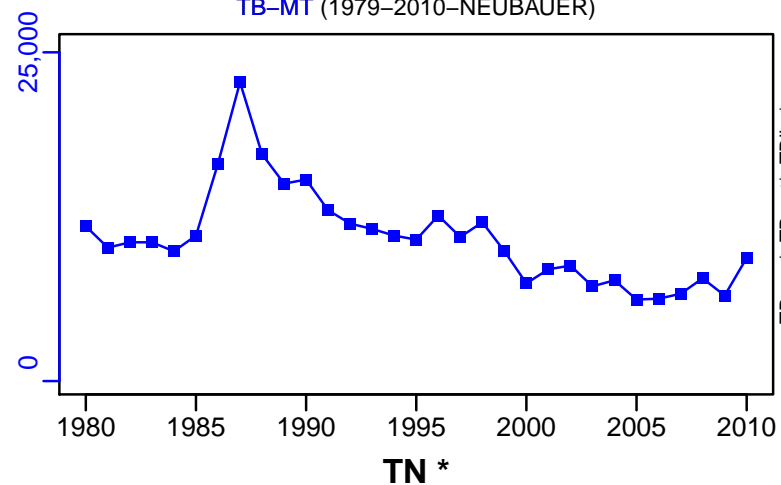
Production (1979–2010–NEUBAUER)



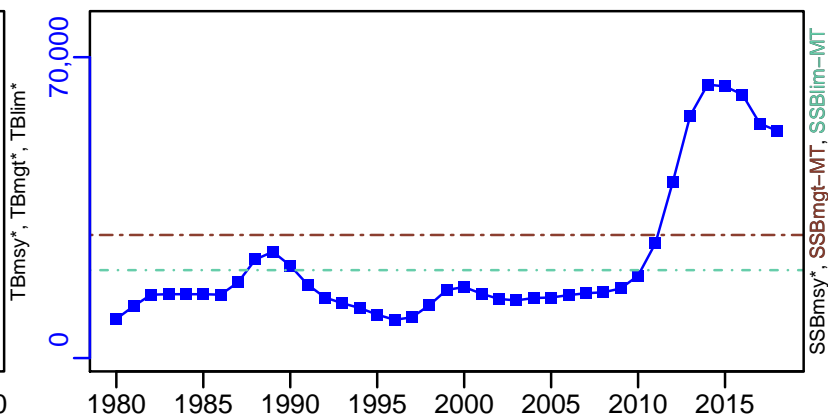
◆ Start Year ◆ End Year * No Data

European Plaice ICES VIId [PLAIC7d]

TB-MT (1979–2010–NEUBAUER)



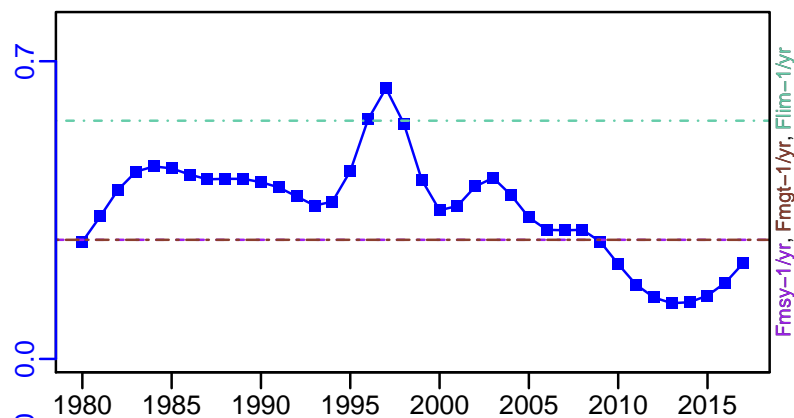
SSB-MT (1979–2018–ICESIMP2018)



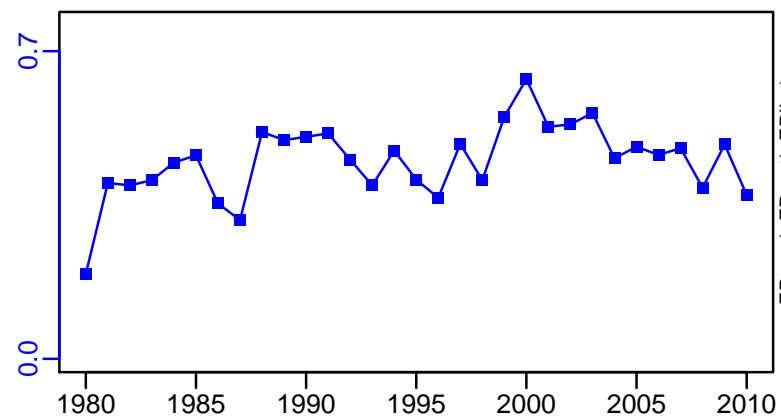
TN *



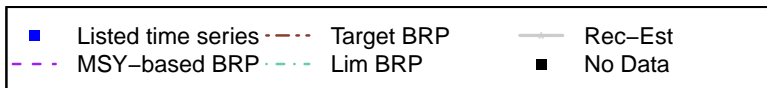
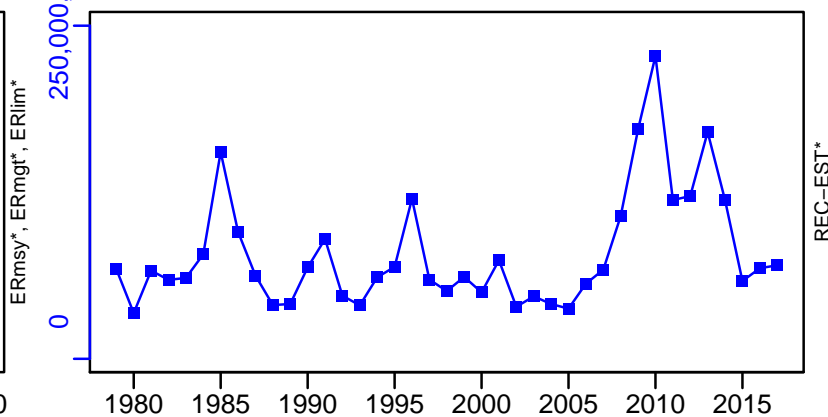
F-1/yr (1979–2018–ICESIMP2018)



ER-ratio (1979–2010–NEUBAUER)



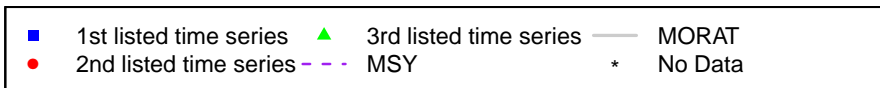
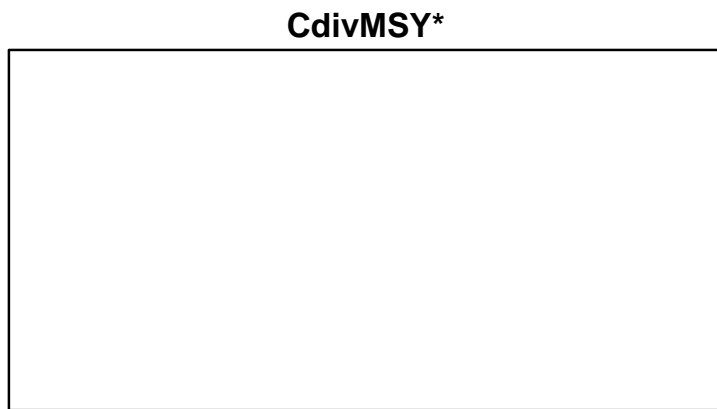
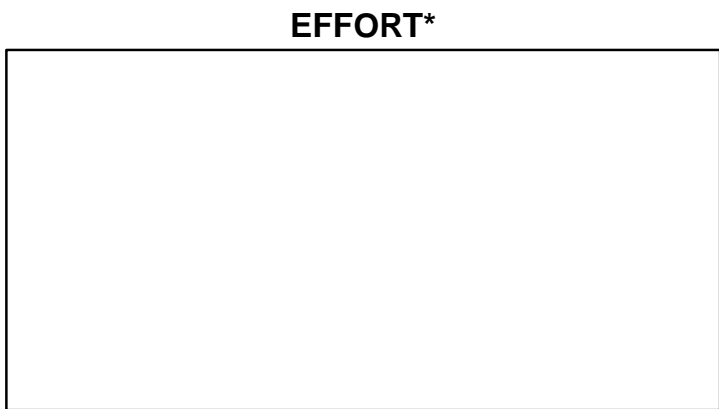
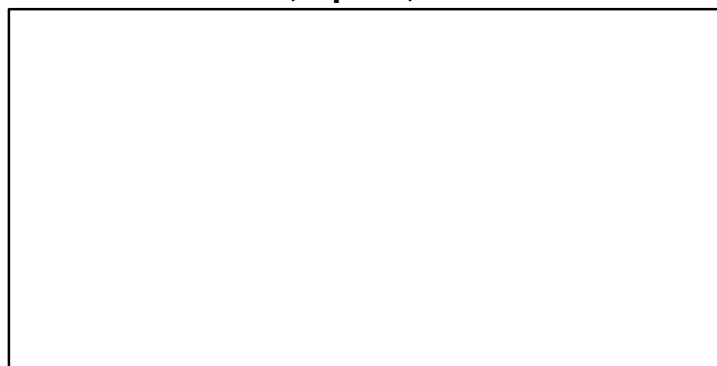
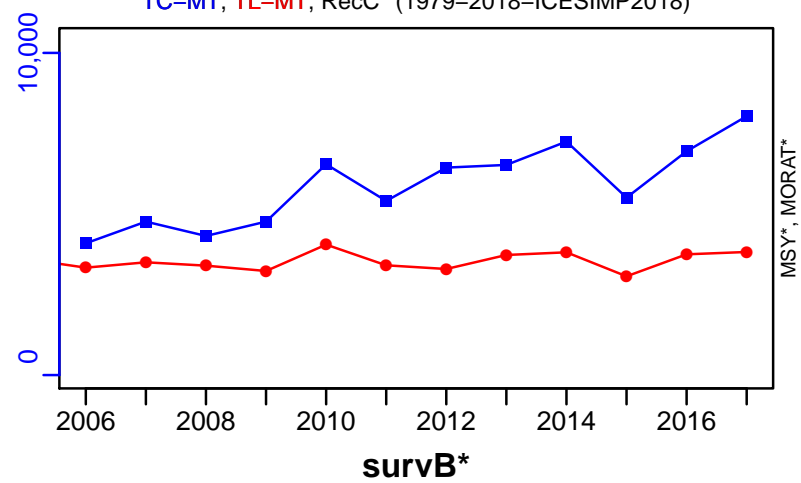
R-E00 (1979–2018–ICESIMP2018)



European Plaice ICES VIId [PLAIC7d]

TC-MT, TL-MT, RecC* (1979-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



European Plaice ICES VIlf-g [PLAICCELT]

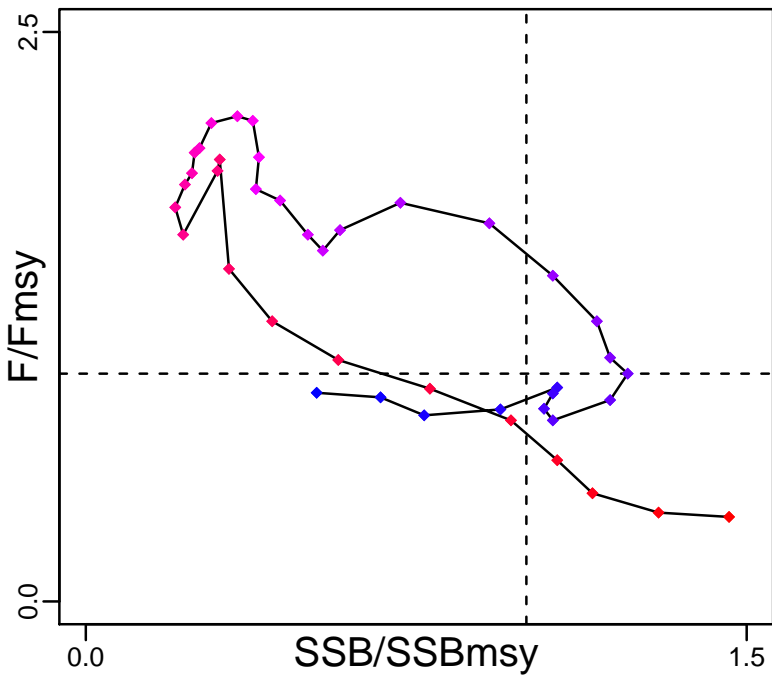
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICCELT-1977-2017-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2017, 2016, 2014, 2016, 2010

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	-	-	-

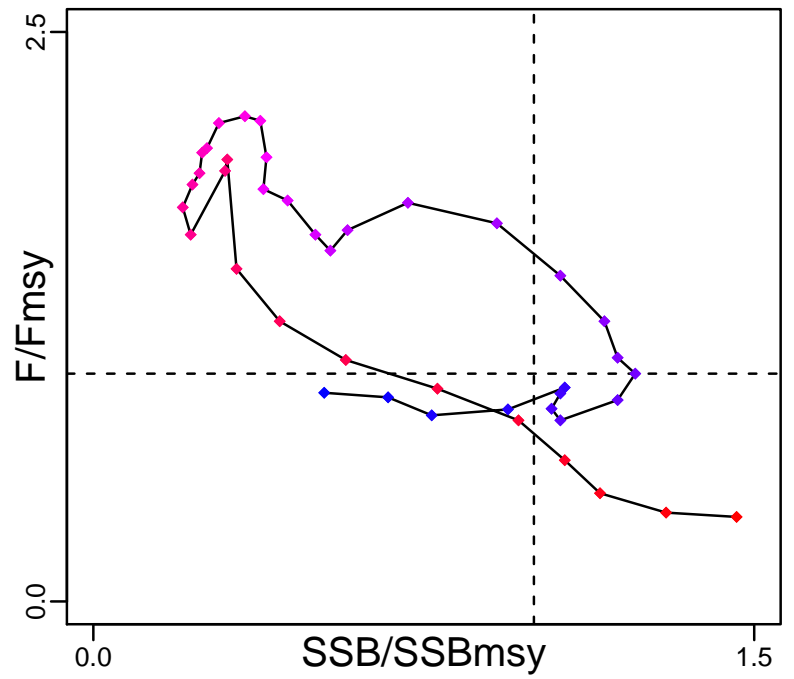
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	6520	Both	-
SSB	SSB-relative	2014	1.33	Both	-
TN	-	-	-	-	-
R	R-relative	2014	0.393	-	1
F	F-relative	2014	1.29	-	3 to 6
ER	ER-calc-ratio	2017	0.06	-	-
TC	TC-MT	2014	1670		
TL	TL-MT	2017	390		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2017	1.46		
F/Fmsy	FdivFmsy-dimensionless	2017	0.371		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European Plaice ICES VII-f-g [PLAICCELT]

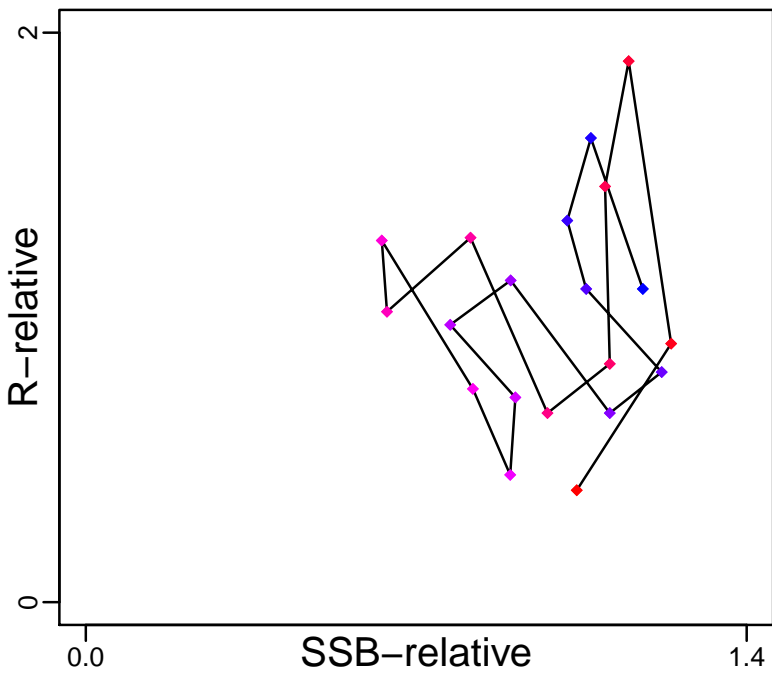
Kobe MSYpref (1977–2017–ICESIMP2018)



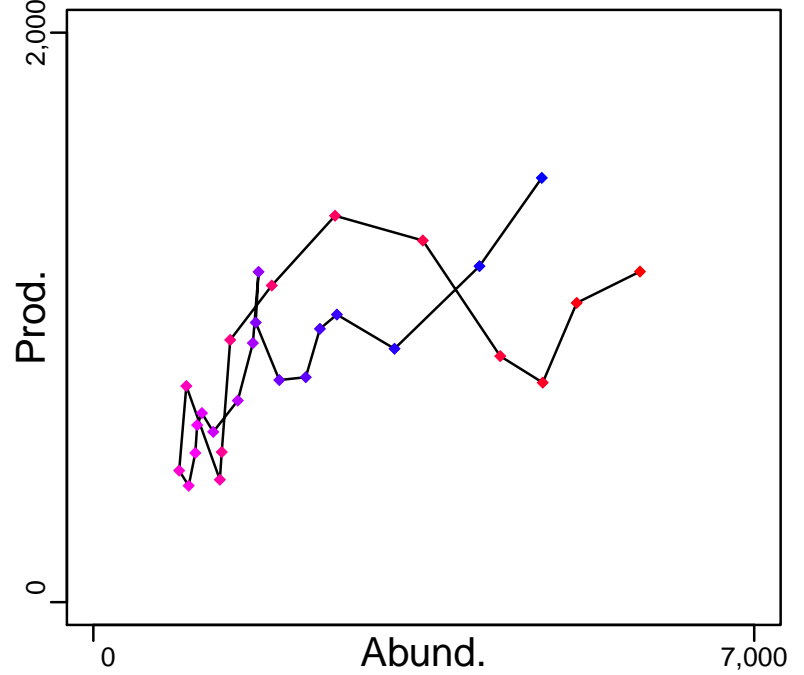
Kobe MGTpref (1977–2017–ICESIMP2018)



Spawner Recruit (1992–2014–ICESIMP2016)



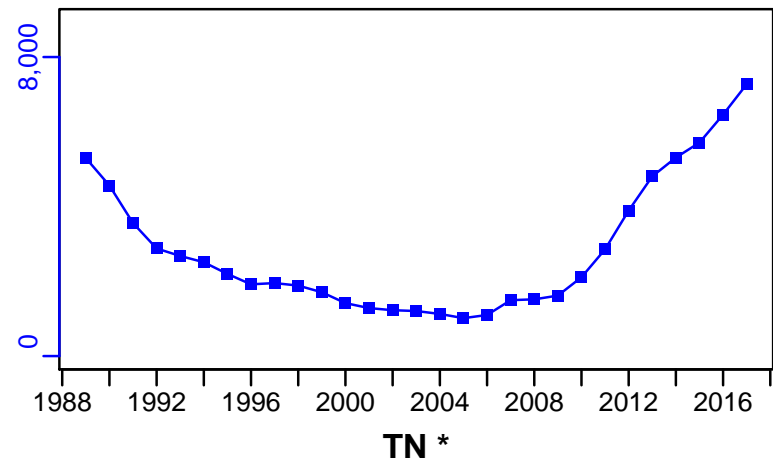
Production (1977–2017–ICESIMP2018)



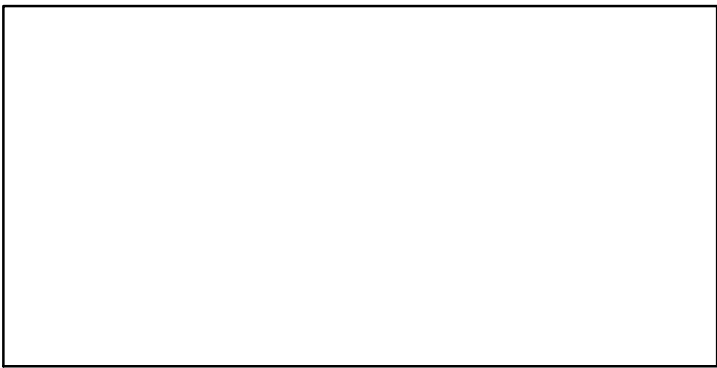
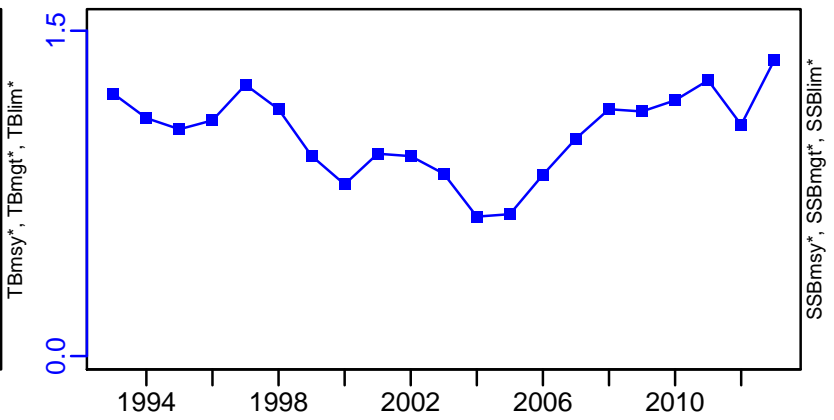
◆ Start Year ◆ End Year * No Data

European Plaice ICES VII-f-g [PLAICCELT]

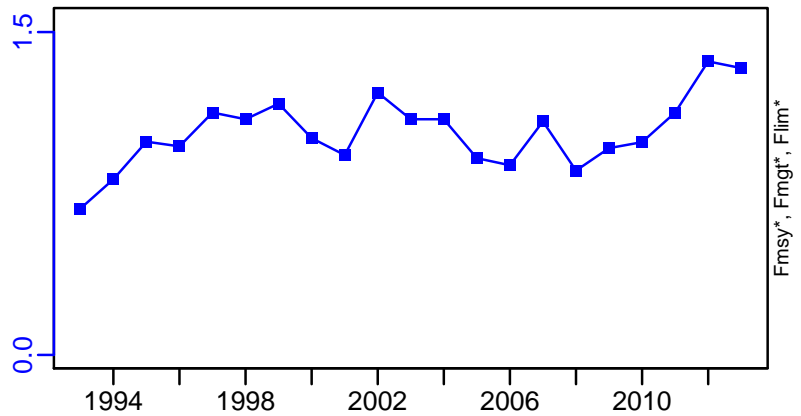
TB-MT (1977-2017-ICESIMP2018)



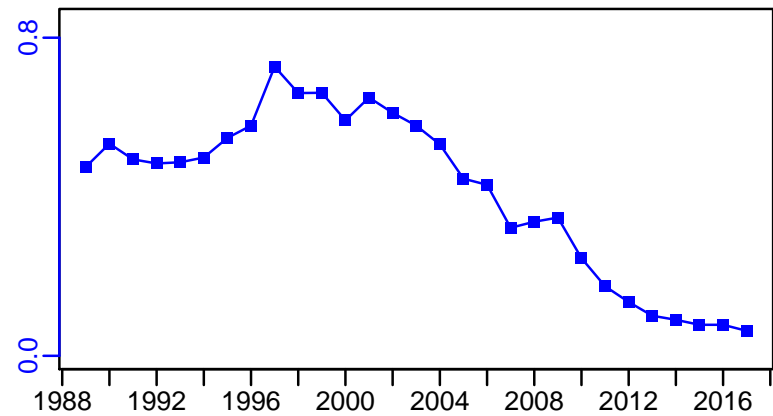
SSB-relative (1992-2014-ICESIMP2016)



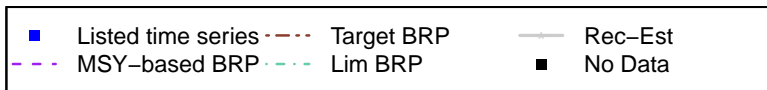
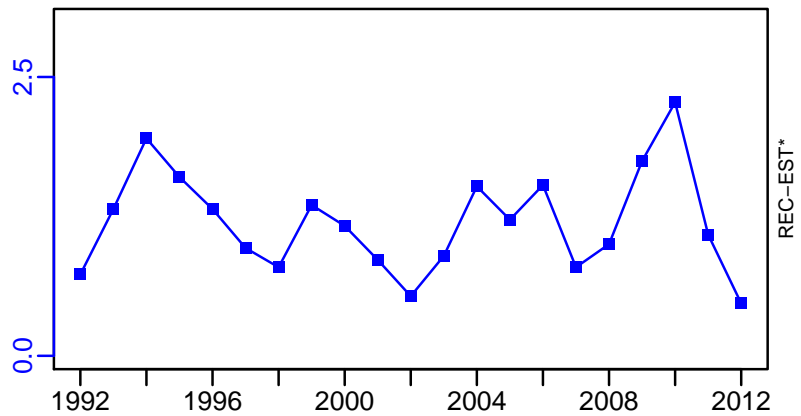
F-relative (1992-2014-ICESIMP2016)



ER-calc-ratio (1977-2017-ICESIMP2018)

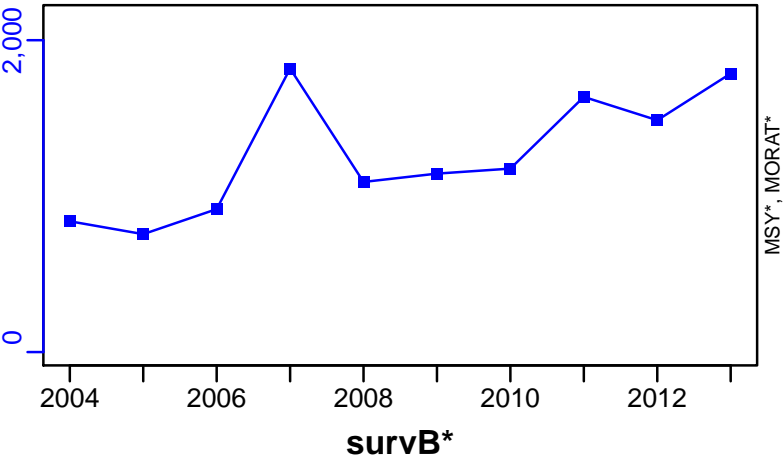


R-relative (1992-2014-ICESIMP2016)



European Plaice ICES VII-f-g [PLAICCELT]

TC-MT, TL*, RecC* (1992-2014-ICESIMP2016)



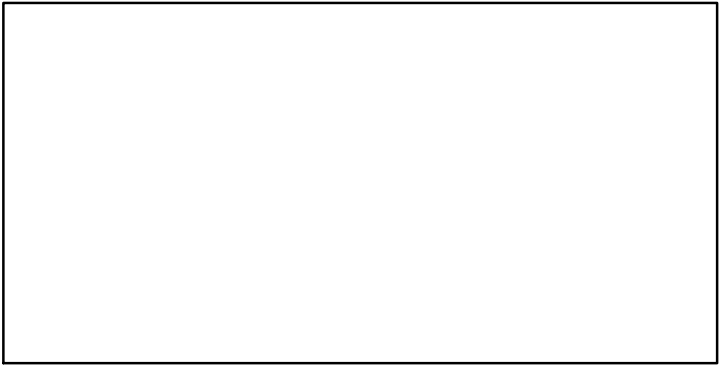
TAC*, Cpair*, Cadv*



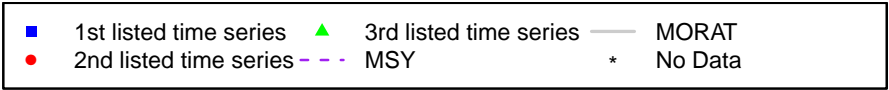
CPUE*



EFFORT*



CdivMSY*



European Plaice ICES Vile [PLAICECHW]

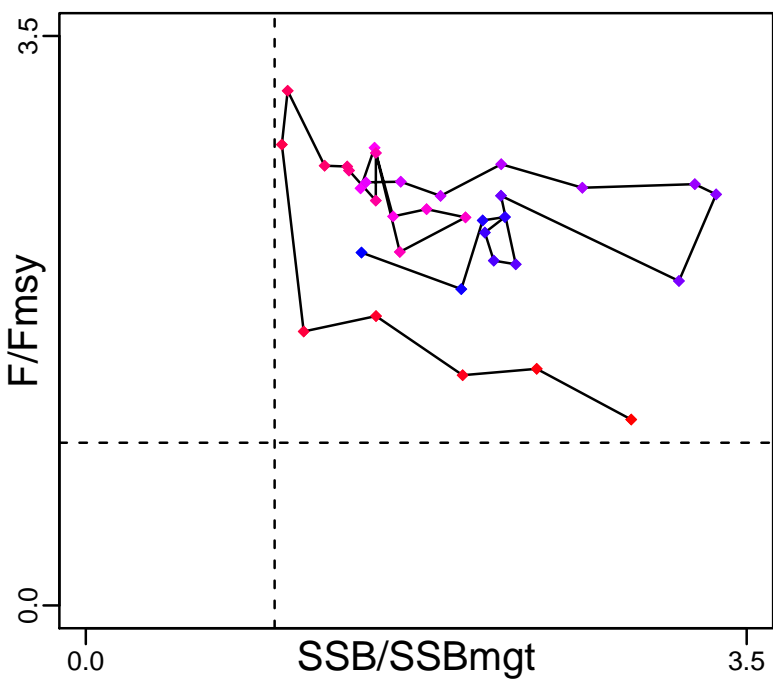
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICECHW-1978-2018-ICESIMP2018
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2016, 2018, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2014	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	2443
Fmgt	Fmgt-relative	2018	0.63
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	TBlim-MT	2010	1300
SSBlim	SSBlim-relative	2018	1745
Flim	Flim-relative	2018	0.88
ERlim	-	-	-

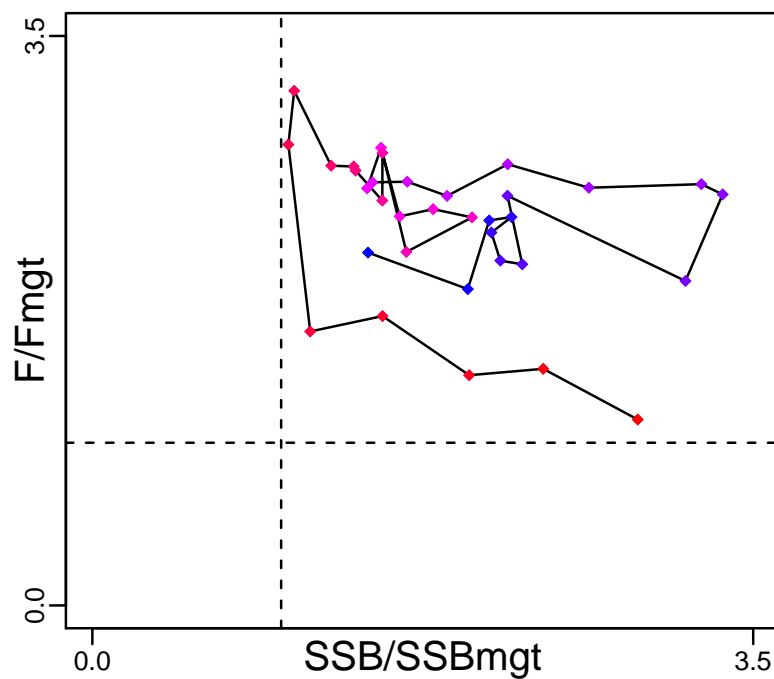
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	1.81	Both	-
SSB	SSB-relative	2018	2.24	Both	-
TN	-	-	-	-	-
R	R-relative	2018	0.898	-	2
F	F-relative	2018	0.545	-	3 to 6
ER	ER-calc-ratio	2018	1165	-	-
TC	TC-MT	2016	2940		
TL	TL-MT	2018	2130		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	1.143		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	3.353		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.143		
ER/ERmgt	-	-	-		

European Plaice ICES Vlle [PLAICECHW]

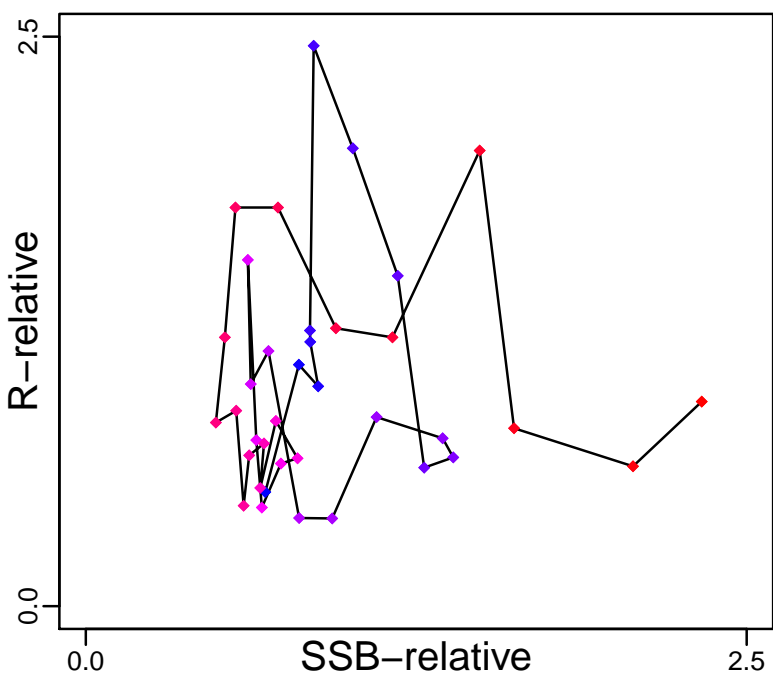
Kobe MSYpref (1979–2014–ICESIMP2016)



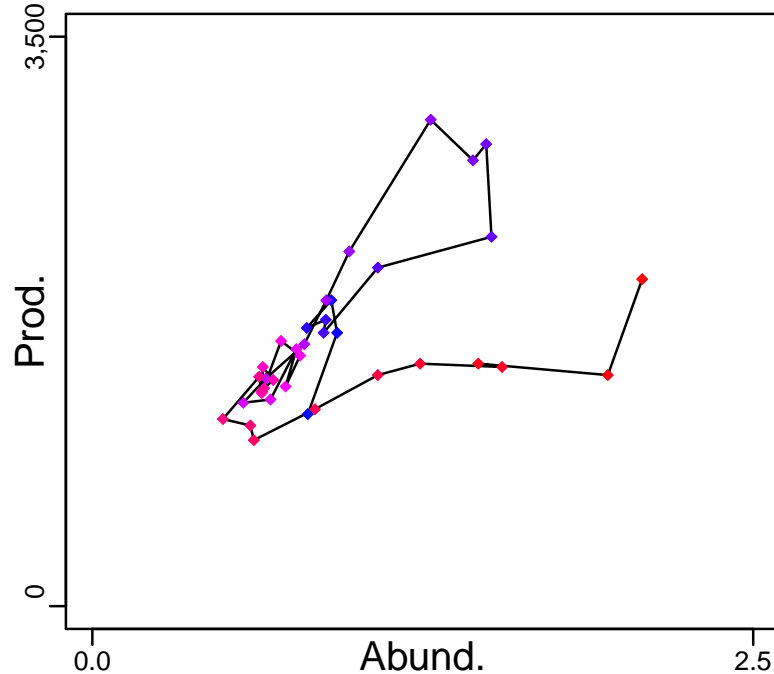
Kobe MGTpref (1979–2014–ICESIMP2016)



Spawner Recruit (1978–2018–ICESIMP2018)



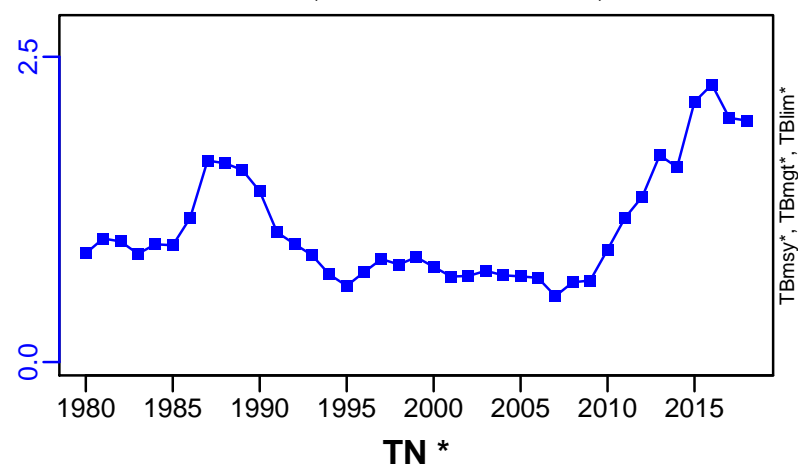
Production (1978–2018–ICESIMP2018)



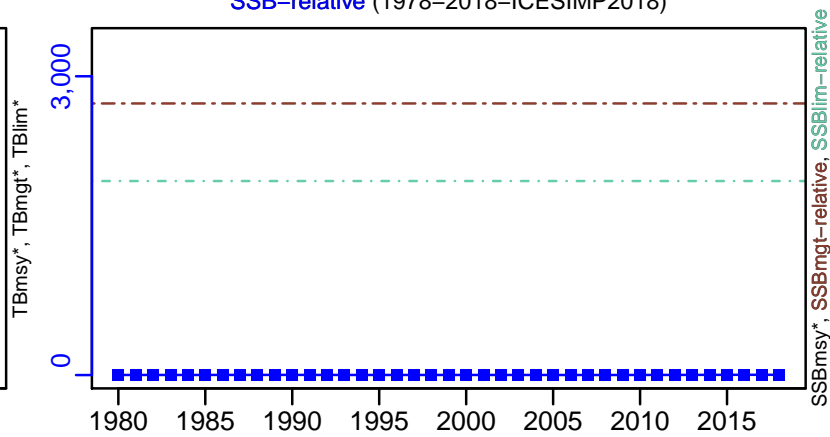
◆ Start Year ◆ End Year * No Data

European Plaice ICES Vile [PLAICEHW]

TB-MT (1978–2018–ICESIMP2018)



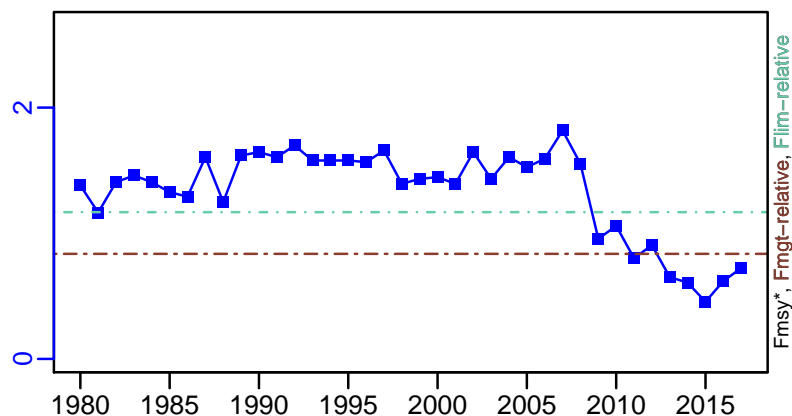
SSB-relative (1978–2018–ICESIMP2018)



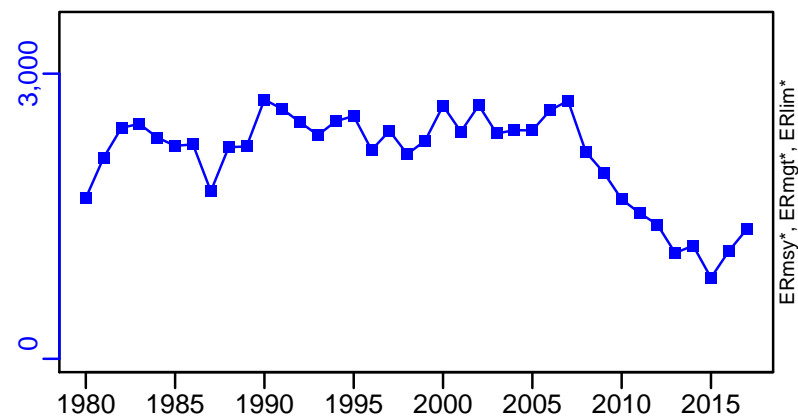
TN *



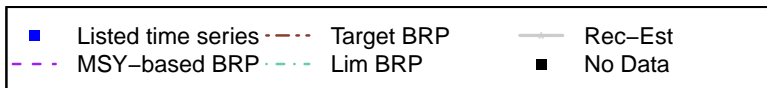
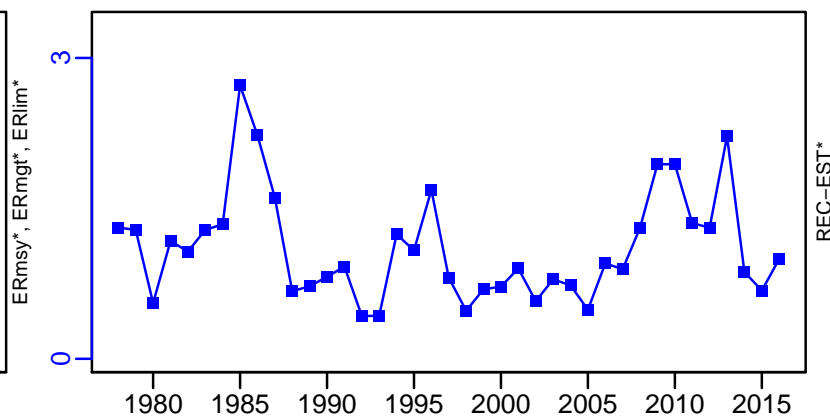
F-relative (1978–2018–ICESIMP2018)



ER-calc-ratio (1978–2018–ICESIMP2018)



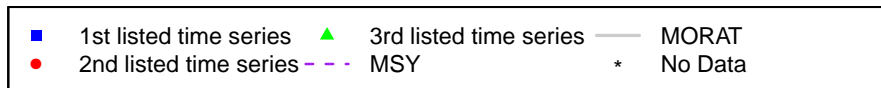
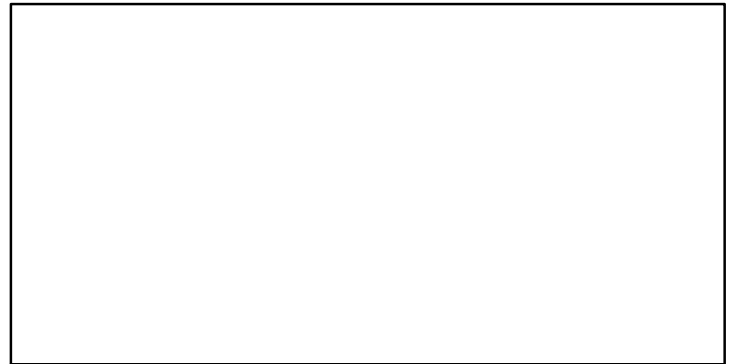
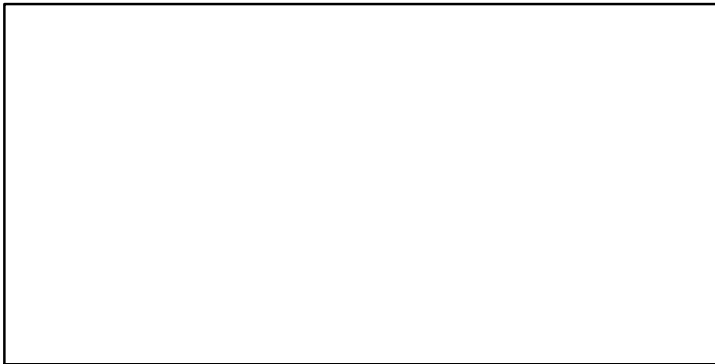
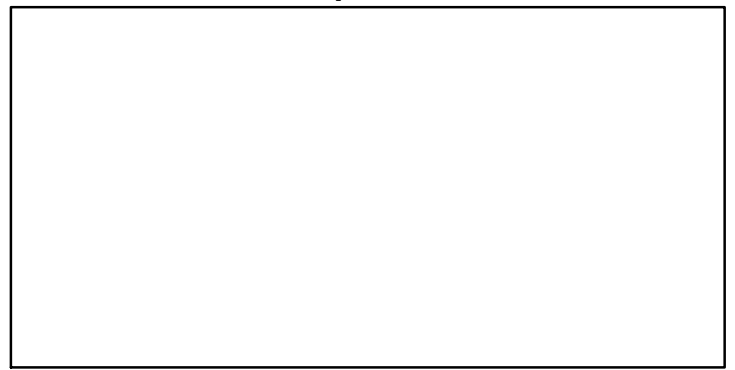
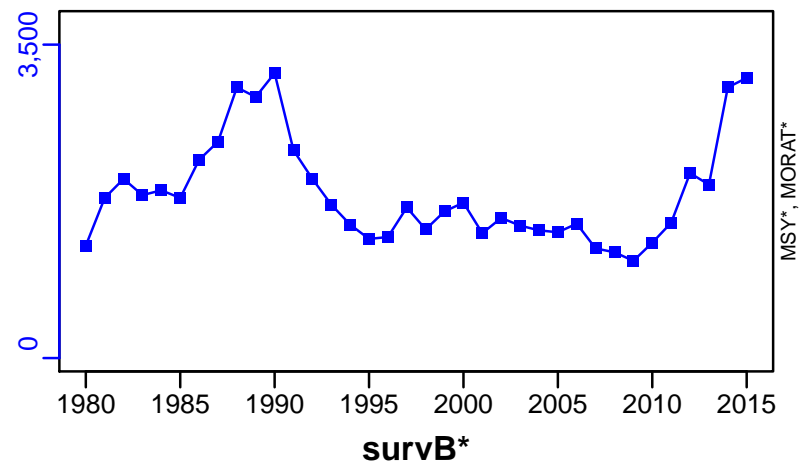
R-relative (1978–2018–ICESIMP2018)



European Plaice ICES Vlle [PLAICECHW]

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

TAC*, Cpair*, Cadv*



European Plaice Irish Sea [PLAICIS]

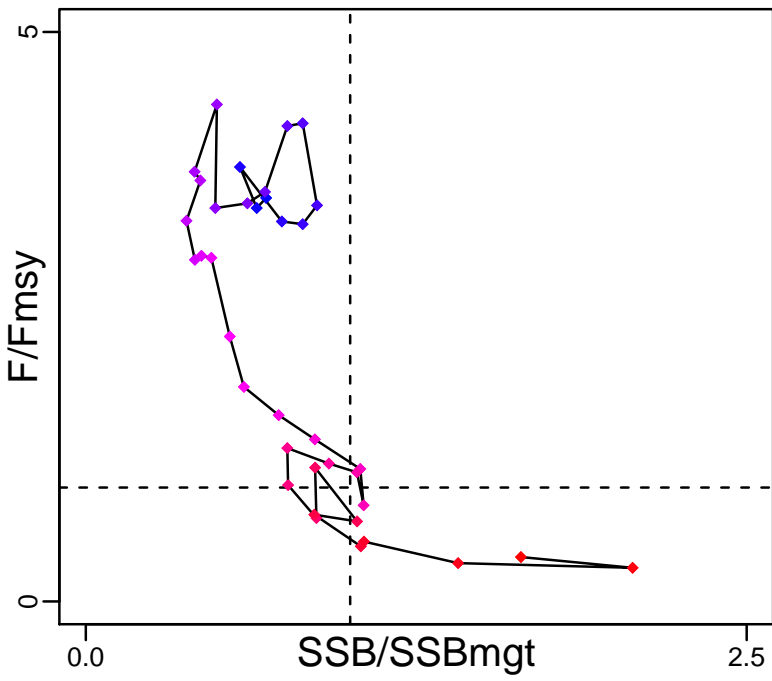
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICIS-1980-2018-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.169
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	10,392
Fmgt	Fmgt-1/yr	2018	0.169
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4250
Flim	Flim-1/yr	2018	0.481
ERlim	-	-	-

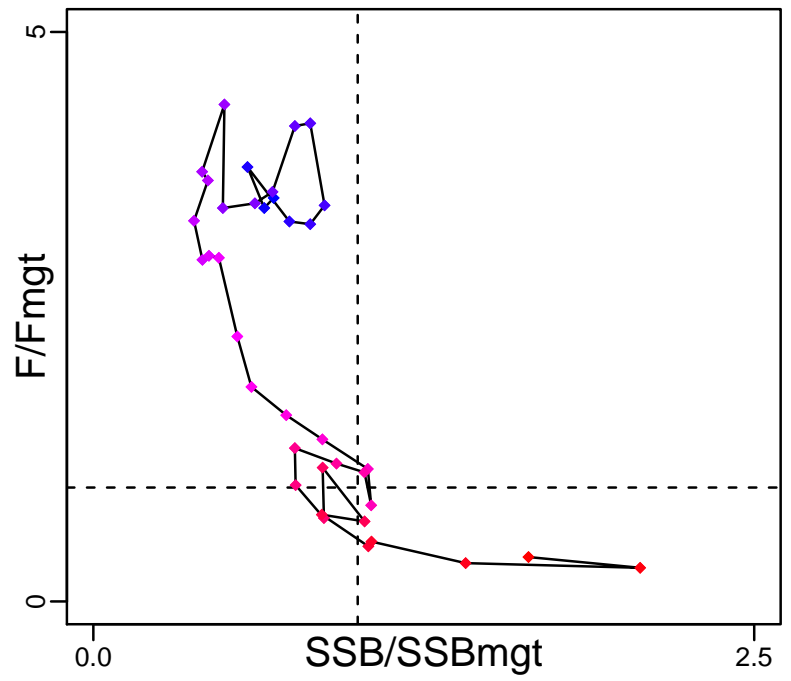
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	20,500	Both	-
SSB	SSB-MT	2018	22,100	Both	-
TN	-	-	-	-	-
R	R-E00	2018	19,900,000	-	1
F	F-1/yr	2018	0.066	-	3 to 6
ER	ER-calc-ratio	2018	0.07	-	-
TC	TC-MT	2018	1440		
TL	TL-MT	2018	586		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.39		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.124		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.39		
ER/ERmgt	-	-	-		

European Plaice Irish Sea [PLAICIS]

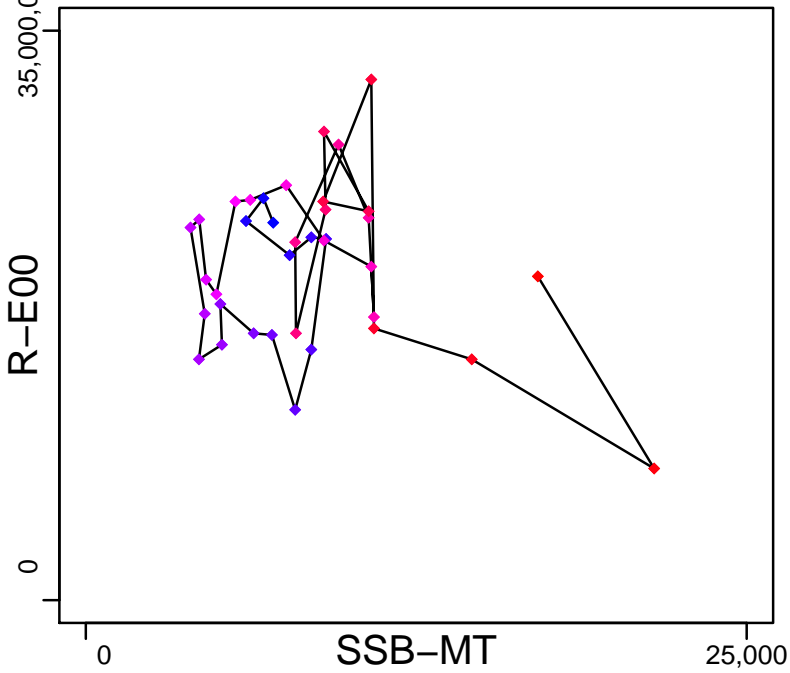
Kobe MSYpref (1980–2018–ICESIMP2018)



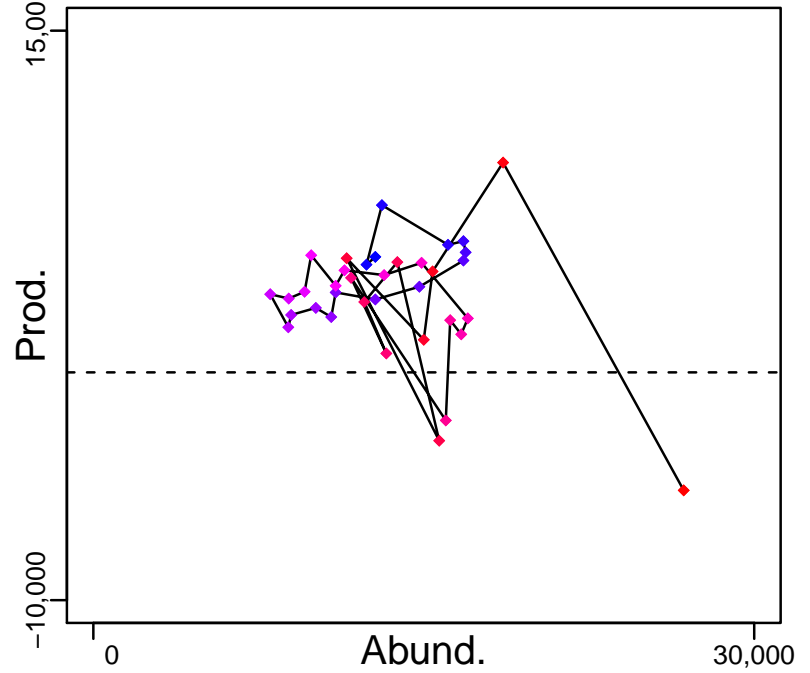
Kobe MGTpref (1980–2018–ICESIMP2018)



Spawner Recruit (1980–2018–ICESIMP2018)



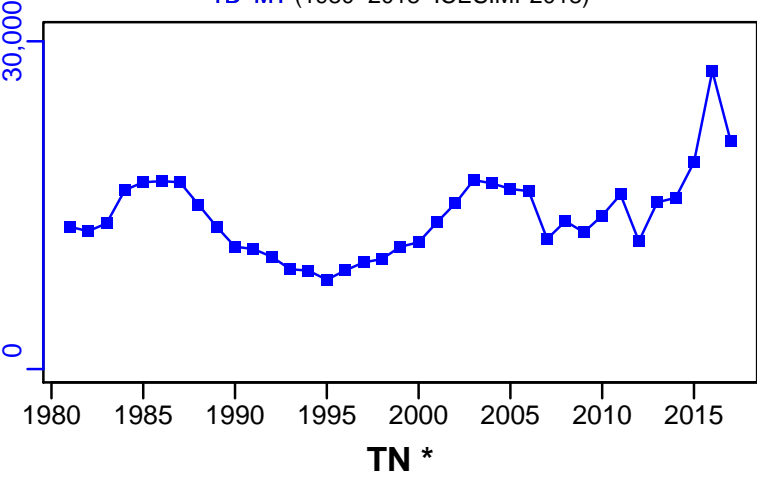
Production (1980–2018–ICESIMP2018)



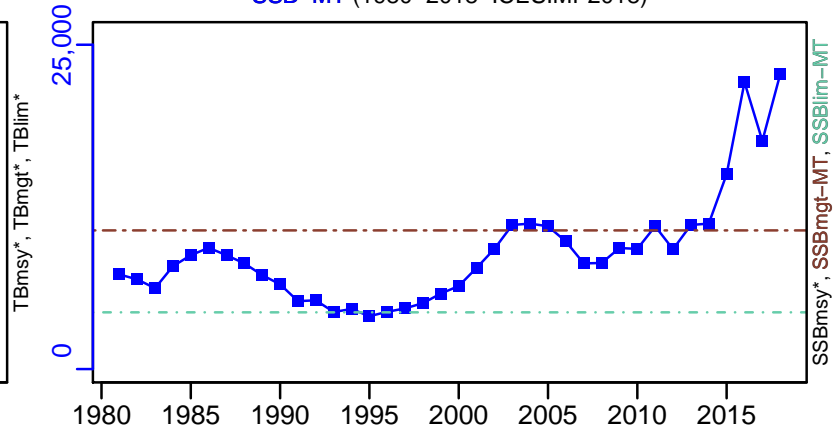
◆ Start Year ◆ End Year * No Data

European Plaice Irish Sea [PLAICIS]

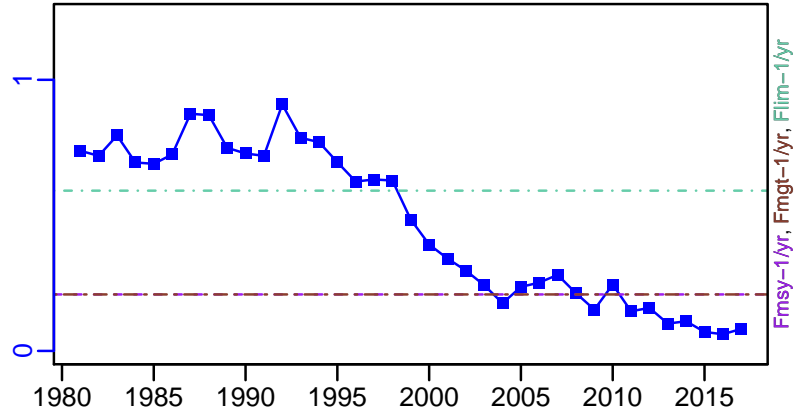
TB-MT (1980–2018–ICESIMP2018)



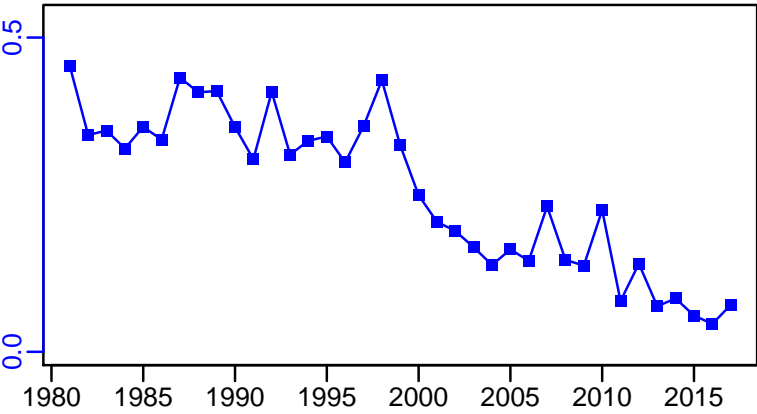
SSB-MT (1980–2018–ICESIMP2018)



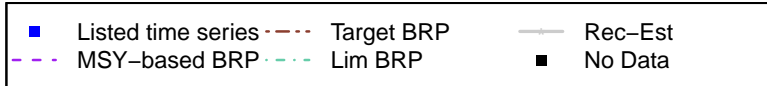
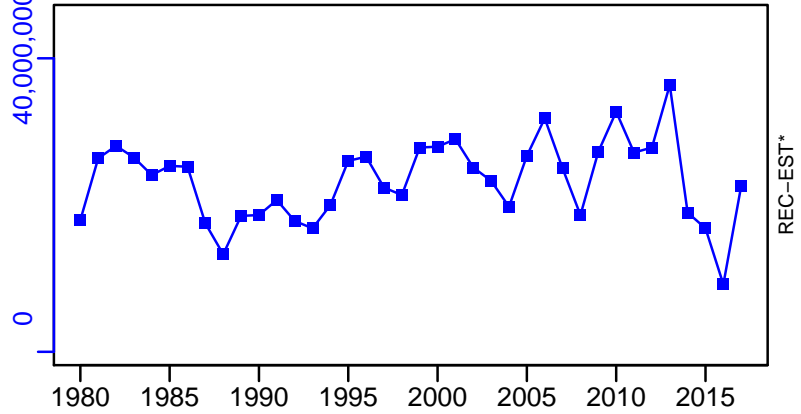
F-1/yr (1980–2018–ICESIMP2018)



ER-calc-ratio (1980–2018–ICESIMP2018)

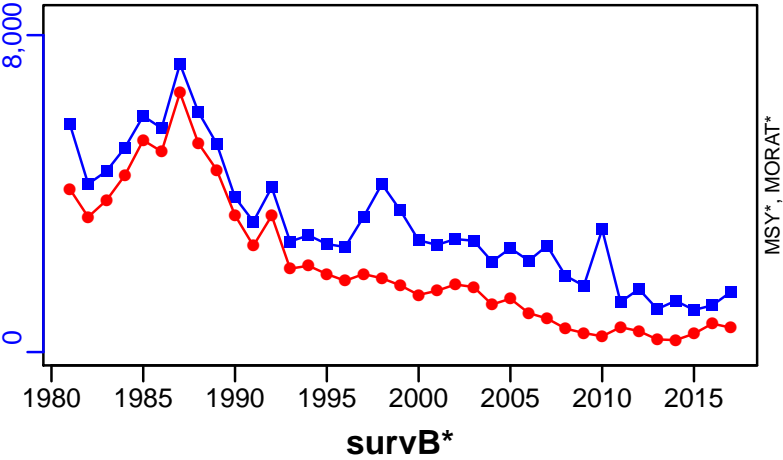


R-E00 (1980–2018–ICESIMP2018)



European Plaice Irish Sea [PLAICIS]

TC-MT, TL-MT, RecC* (1980–2018–ICESIMP2018)



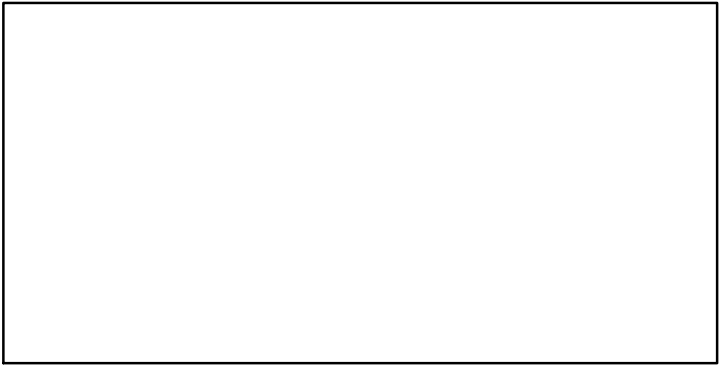
TAC*, Cpair*, Cadv*



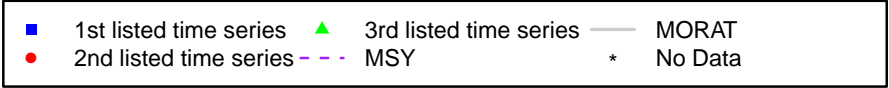
CPUE*



EFFORT*



CdivMSY*



European Plaice North Sea [PLAICNS]

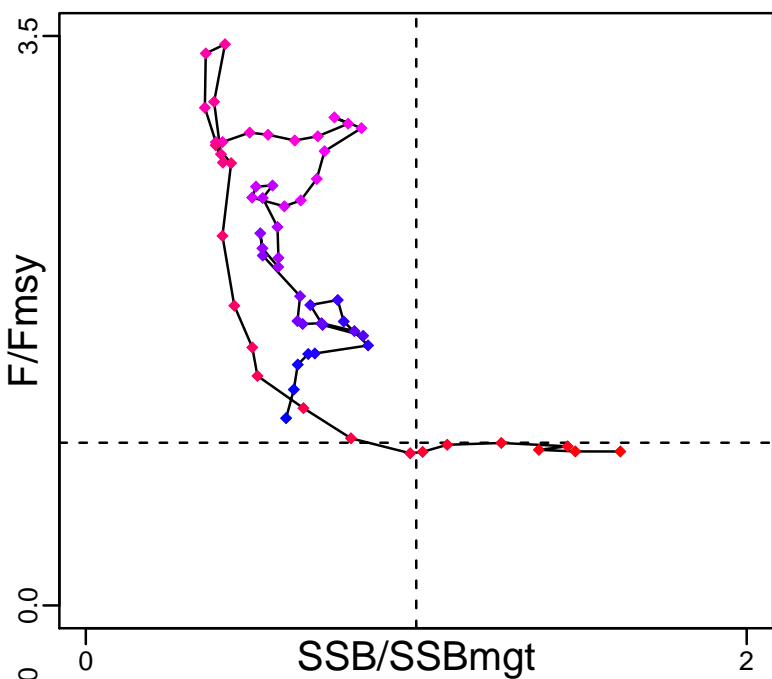
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICNS-1956-2018-ICESIMP2018
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

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

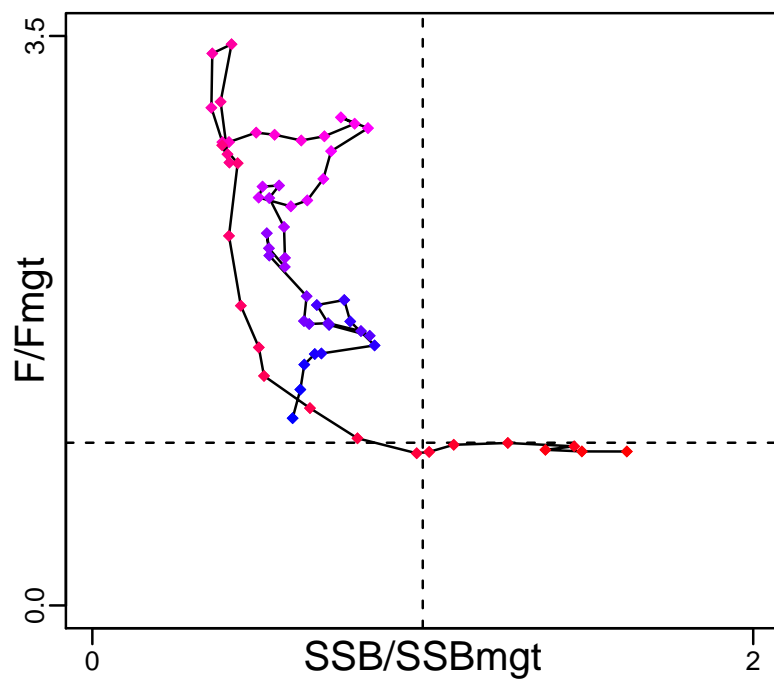
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	1,040,000	Both	-
SSB	SSB-MT	2018	941,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	8.95×10^8	-	1
F	F-1/yr	2018	0.199	-	2 to 6
ER	ER-calc-ratio	2018	0.11	-	-
TC	TC-MT	2018	114,000		
TL	TL-MT	2018	74,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.946		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.667		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.946		
ER/ERmgt	-	-	-		

European Plaice North Sea [PLAICNS]

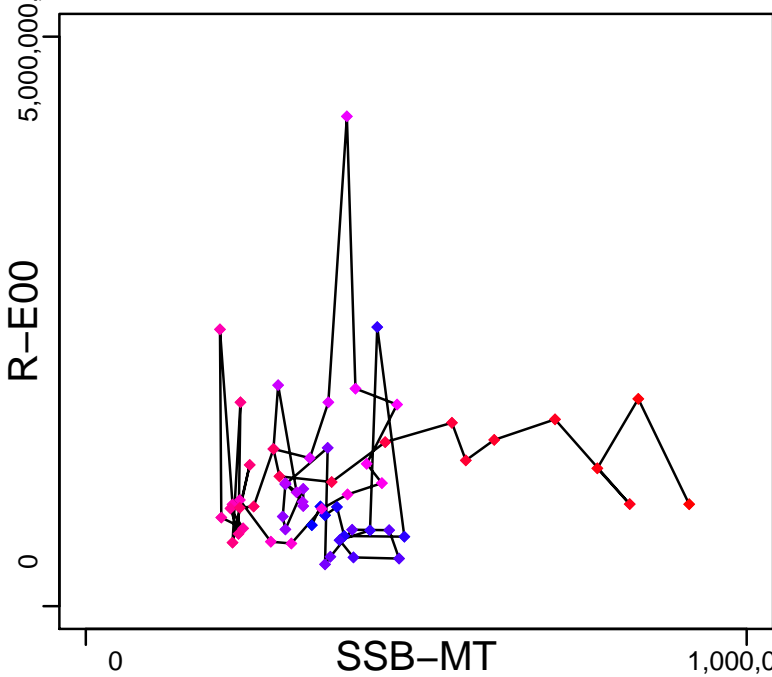
Kobe MSYpref (1956–2018–ICESIMP2018)



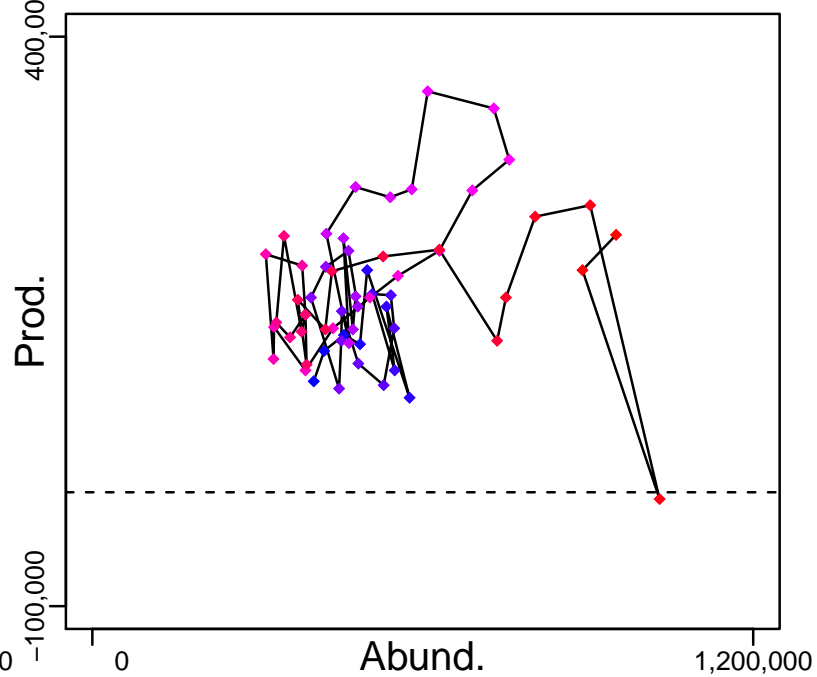
Kobe MGTpref (1956–2018–ICESIMP2018)



Spawner Recruit (1956–2018–ICESIMP2018)

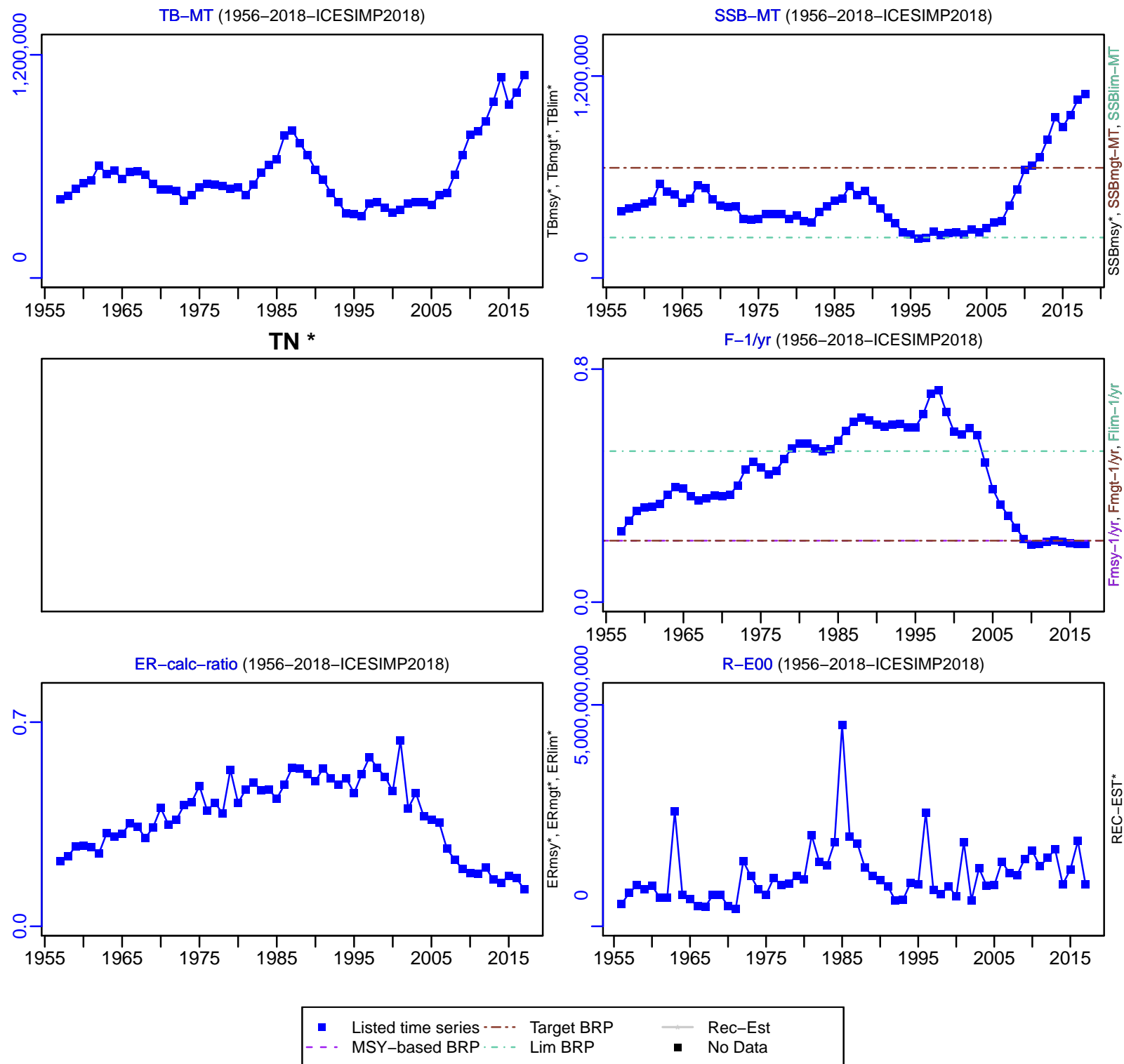


Production (1956–2018–ICESIMP2018)



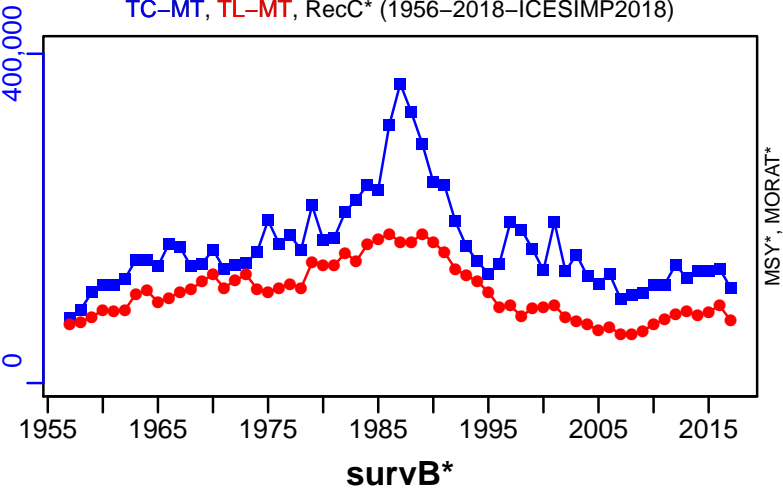
◆ Start Year ◆ End Year * No Data

European Plaice North Sea [PLAICNS]

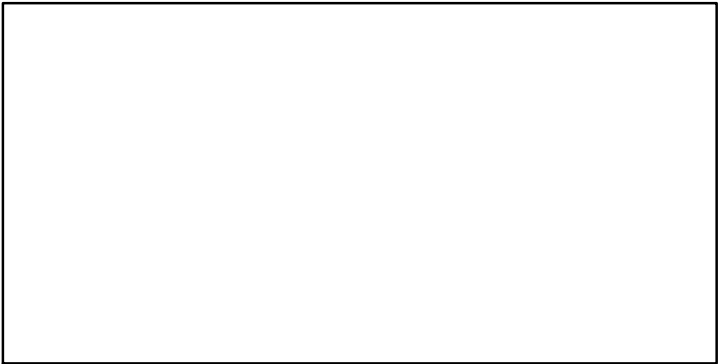


European Plaice North Sea [PLAICNS]

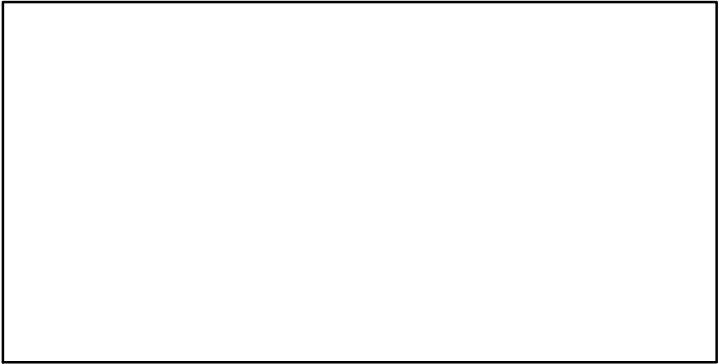
TC-MT, TL-MT, RecC* (1956–2018–ICESIMP2018)



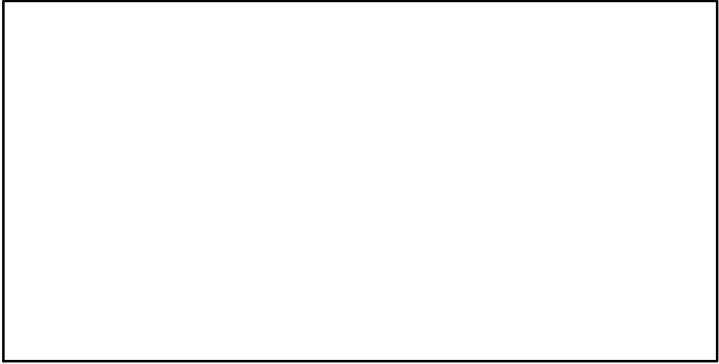
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



European Plaice VIIbc [PLAICVIIbc]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIbc-1908-2016-ICESIMP2018
Area	VIIbc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	29		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

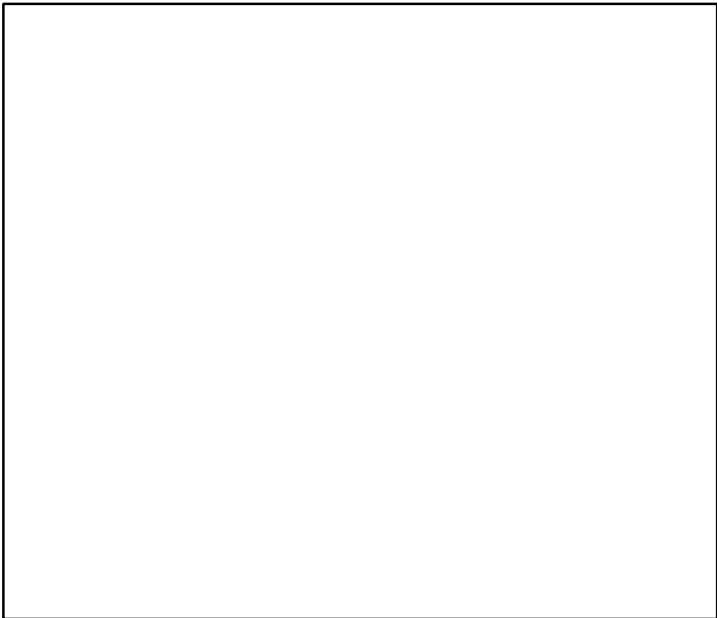
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

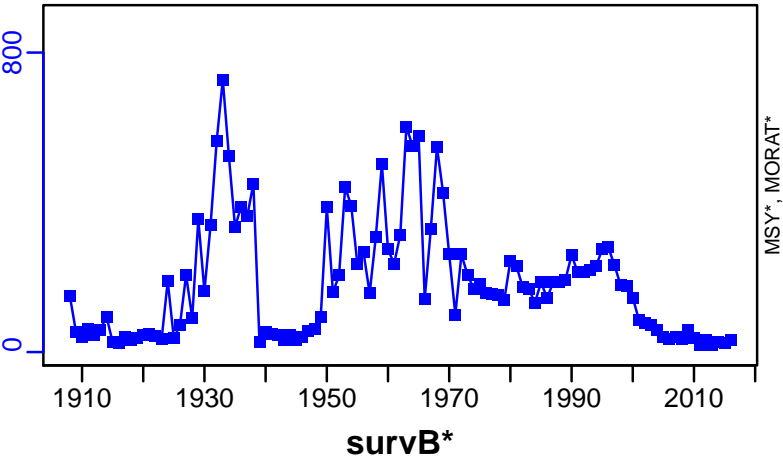


Recruits*



European Plaice VIIbc [PLAICVIIbc]

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



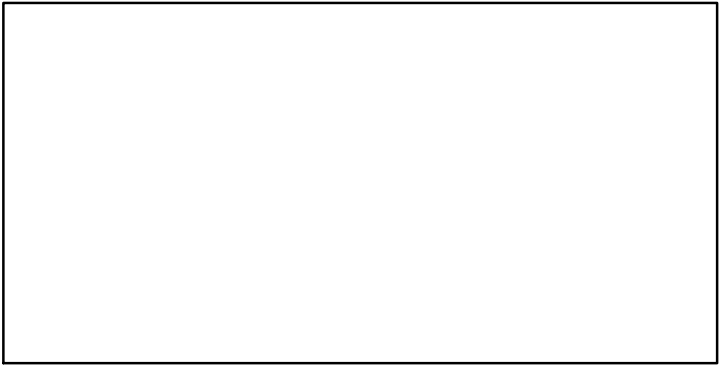
TAC*, Cpair*, Cadv*



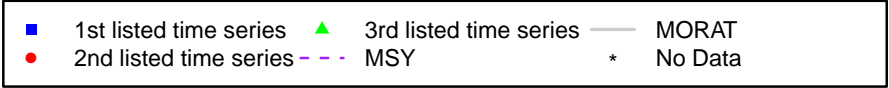
CPUE*



EFFORT*



CdivMSY*

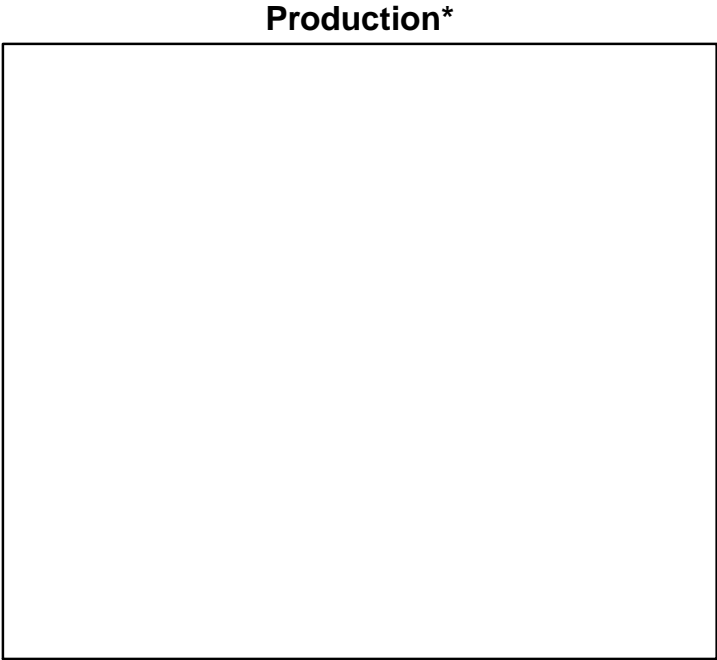
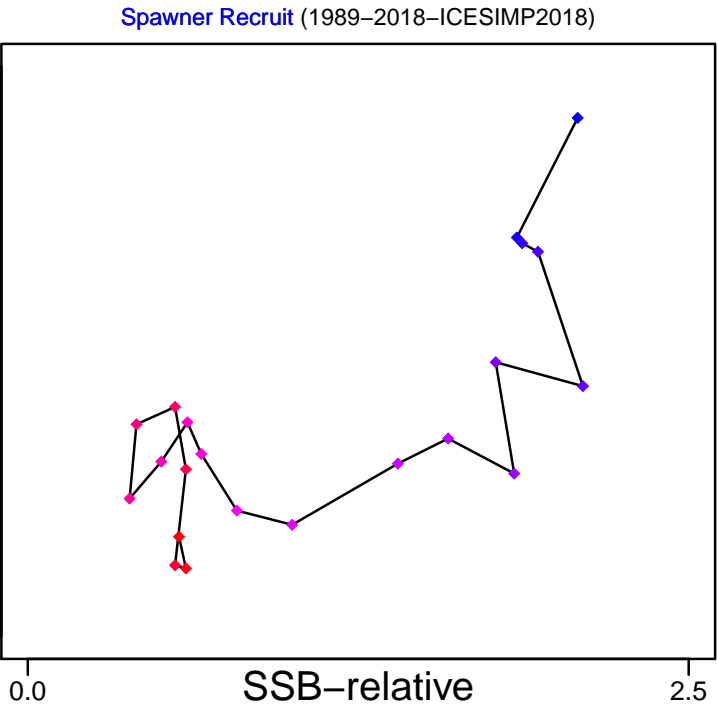
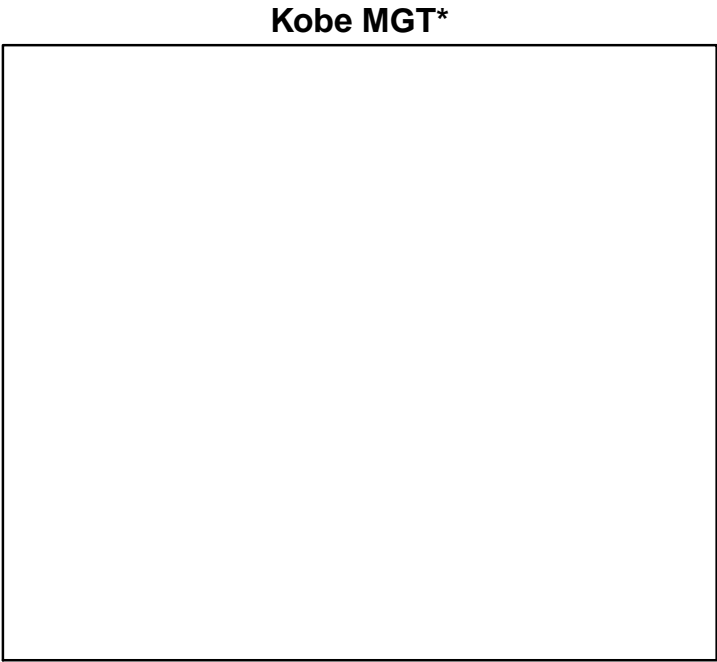
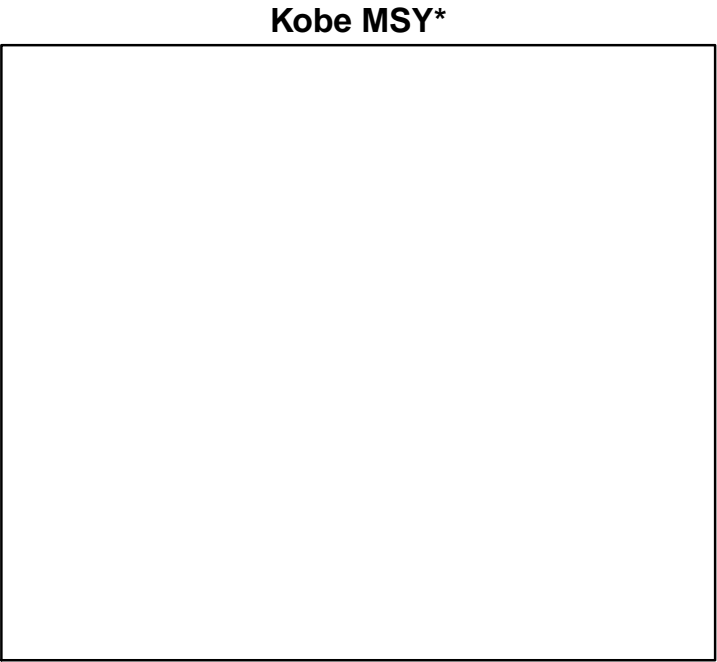


European Plaice VIIh-k [PLAICVIIh-k]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIh-k-1989-2018-ICESIMP2018
Area	VIIh-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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	328
Fmgt	Fmgt-relative	2018	0.31
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	2018	0.63	Both	-
TN	-	-	-	-	-
R	R-relative	2018	0.349	-	4
F	F-relative	2018	1.17	-	4 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	115		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



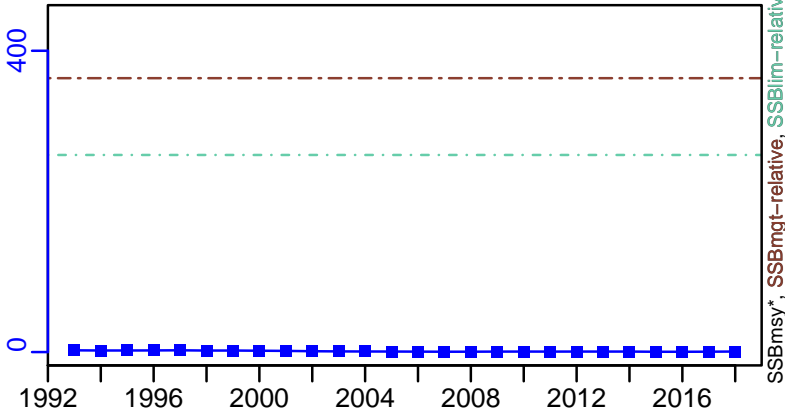
◆ Start Year ◆ End Year * No Data

European Plaice VIIh-k [PLAICVIIh-k]

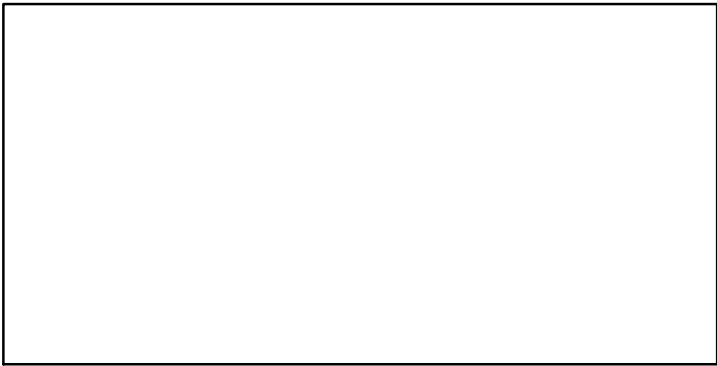
TB*



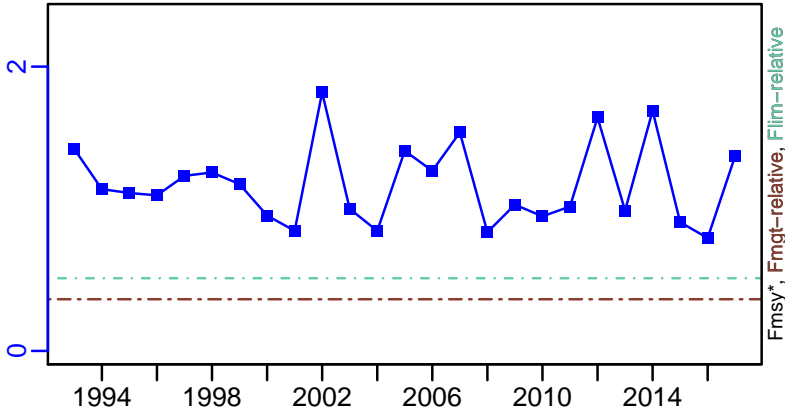
SSB-relative (1989-2018-ICESIMP2018)



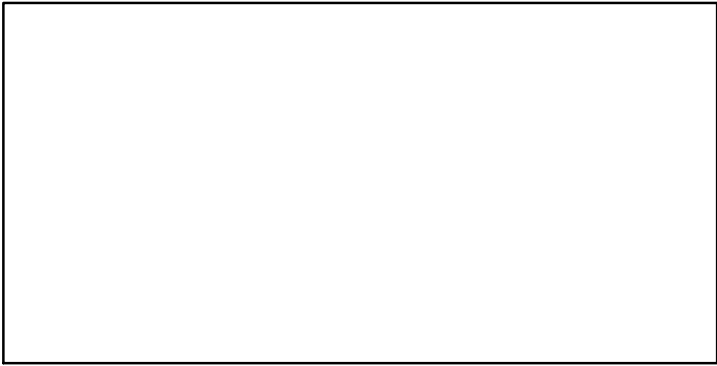
TN *



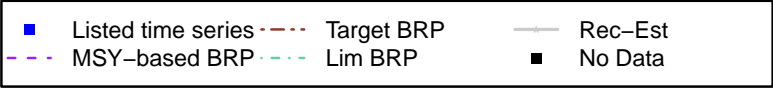
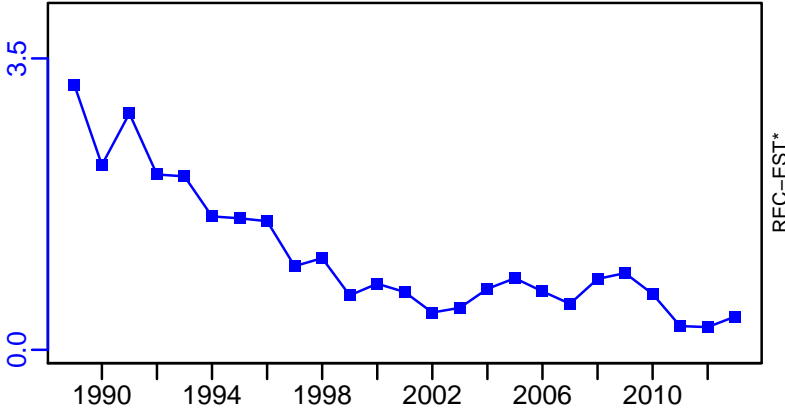
F-relative (1989-2018-ICESIMP2018)



ER*



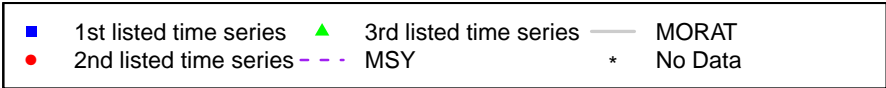
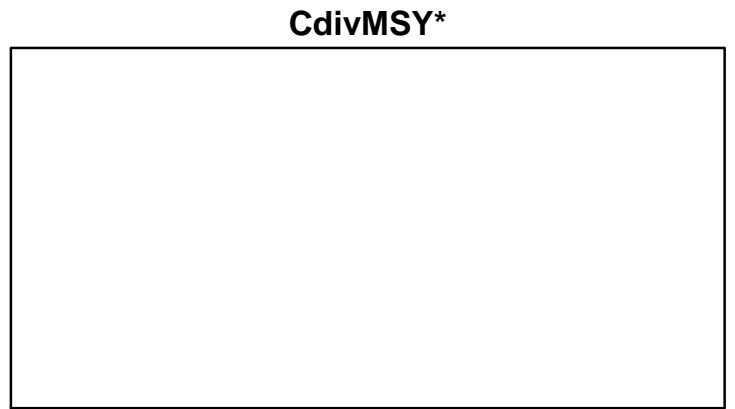
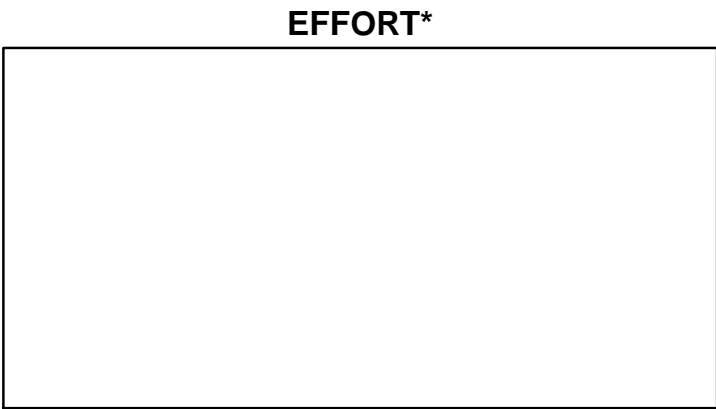
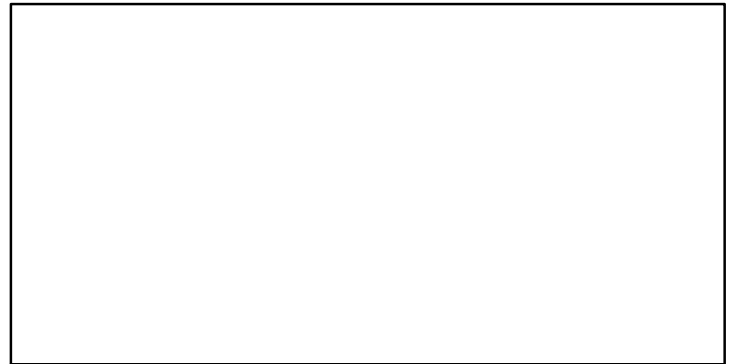
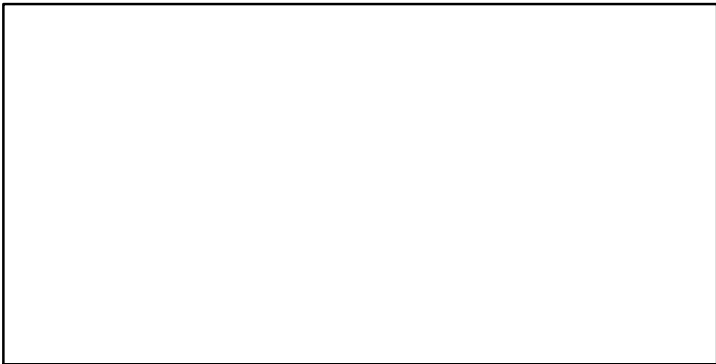
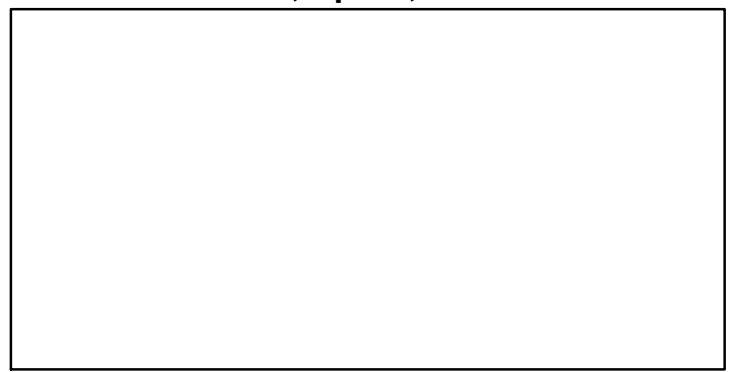
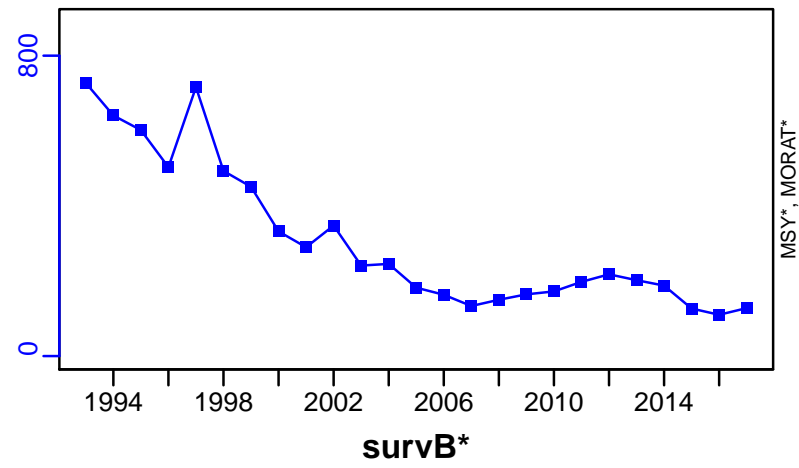
R-relative (1989-2018-ICESIMP2018)



European Plaice VIIh-k [PLAICVIIh-k]

TL-MT, TC*, RecC* (1989-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



European Plaice VIII and IXa [PLAICVIII-IXa]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBIE-PLAICVIII-IXa-1994-2016-ICESIMP2018
Area	VIII and IXa
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	173		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

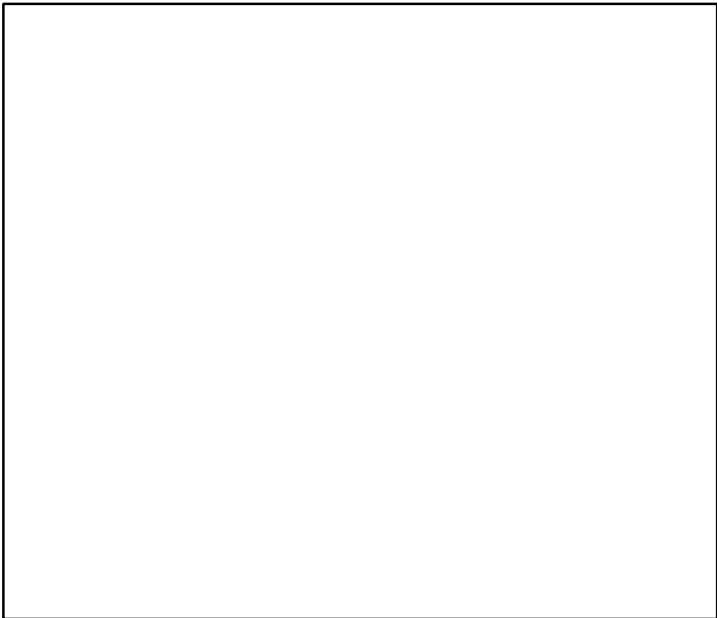
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European Plaice VIII and IXa [PLAICVIII–IXa]

TB*



SSB*



TN *



F*



ER*

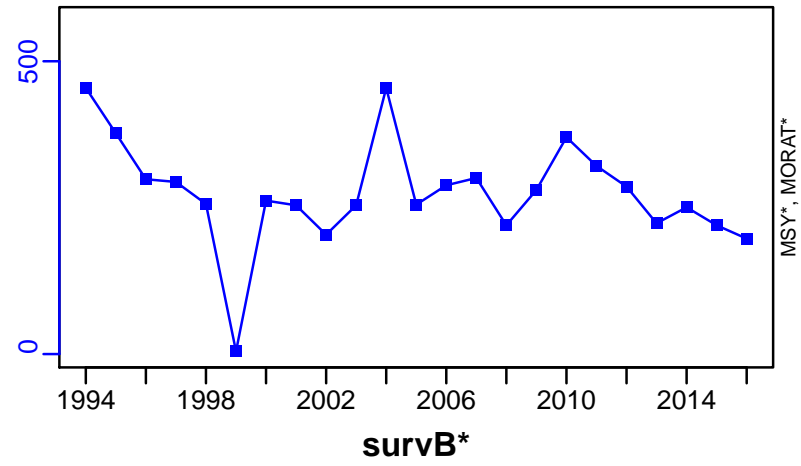


Recruits*

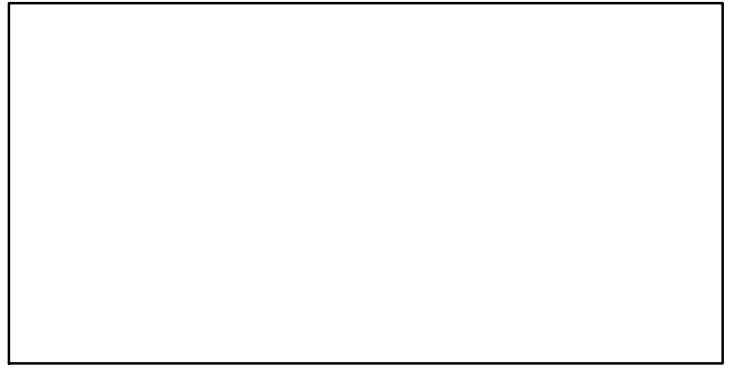


European Plaice VIII and IXa [PLAICVIII–IXa]

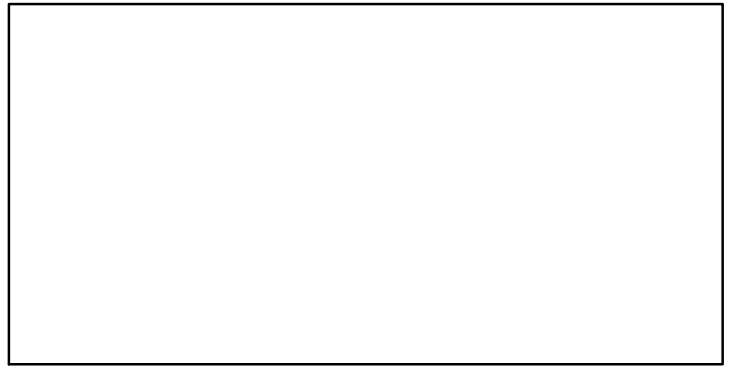
TL–MT, TC*, RecC* (1994–2016–ICESIMP2018)



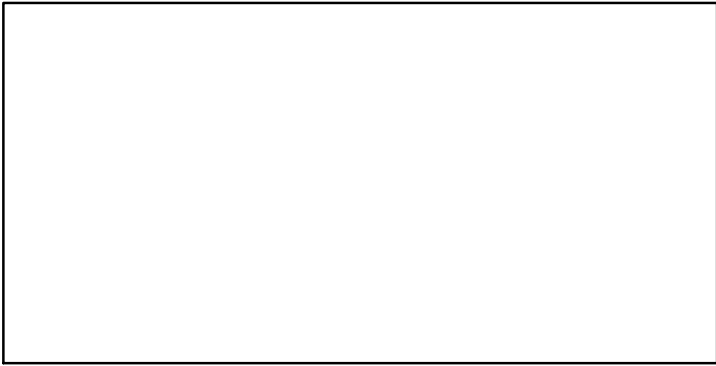
TAC*, Cpair*, Cadv*



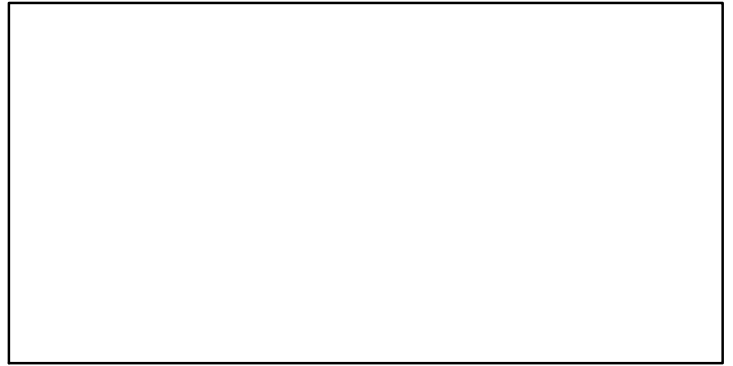
CPUE*



EFFORT*



CdivMSY*



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

Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]

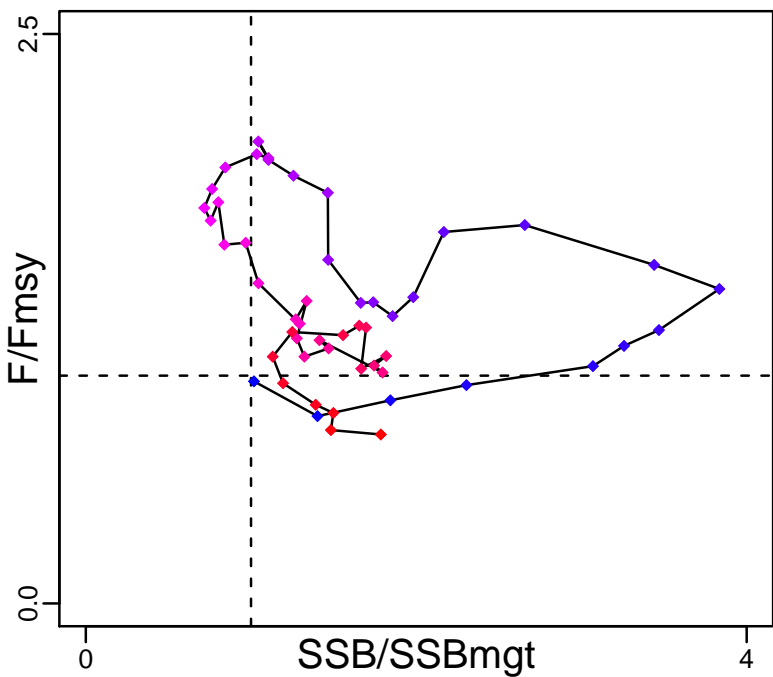
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	WGNSSK-POLLNS-VI-IIIa-1964-2018-ICESIMP2018
Area	IIIa, VI and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2012, 2013, 2014, 2015, 2016, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.36
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	150,000
Fmgt	Fmgt-1/yr	2018	0.36
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	2×10^5
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	107,000
Flim	Flim-1/yr	2018	0.56
ERlim	-	-	-

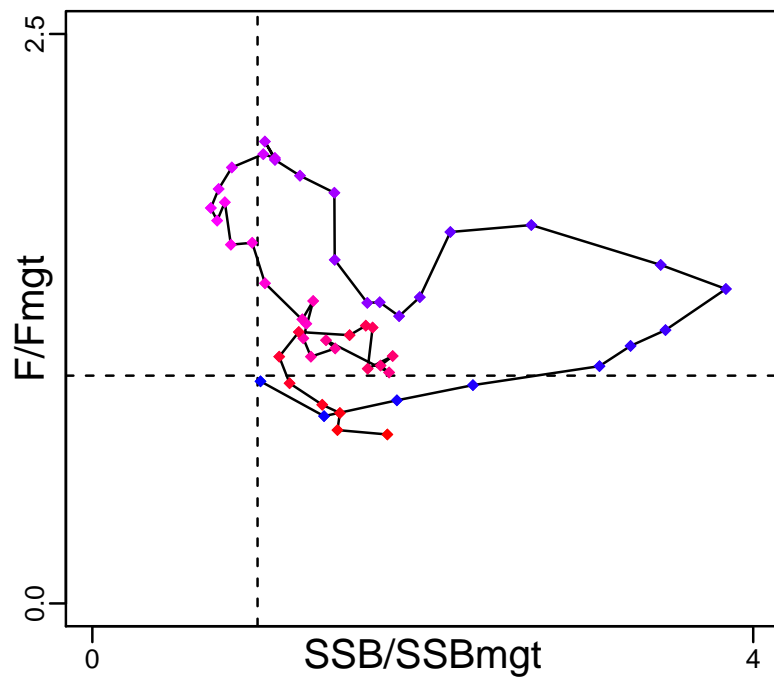
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	523,000	Both	-
SSB	SSB-MT	2018	305,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.11×10^8	-	3
F	F-1/yr	2018	0.267	-	4 to 7
ER	ER-calc-ratio	2018	0.186	-	-
TC	TC-MT	2018	97,500		
TL	TL-MT	2018	88,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.742		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.034		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.742		
ER/ERmgt	-	-	-		

Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]

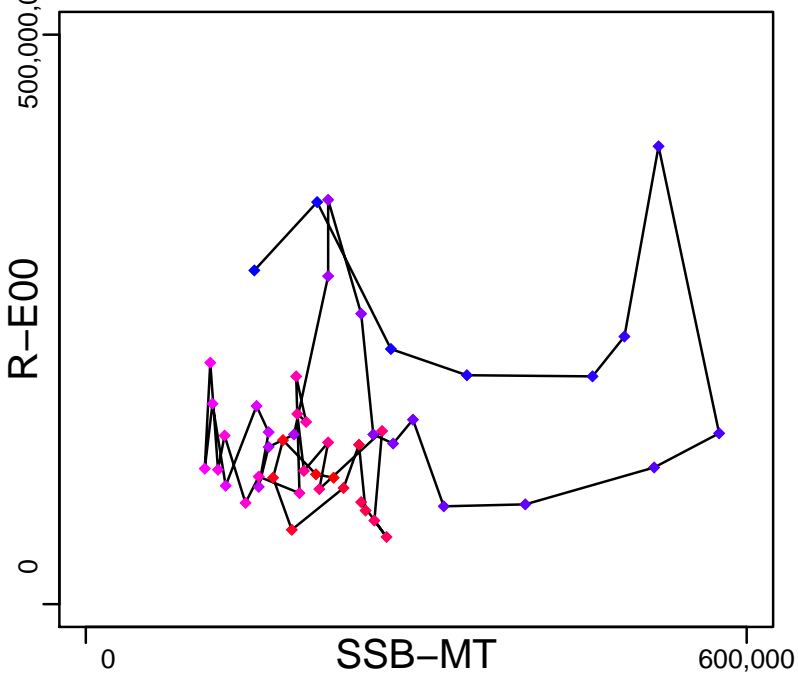
Kobe MSYpref (1964–2018–ICESIMP2018)



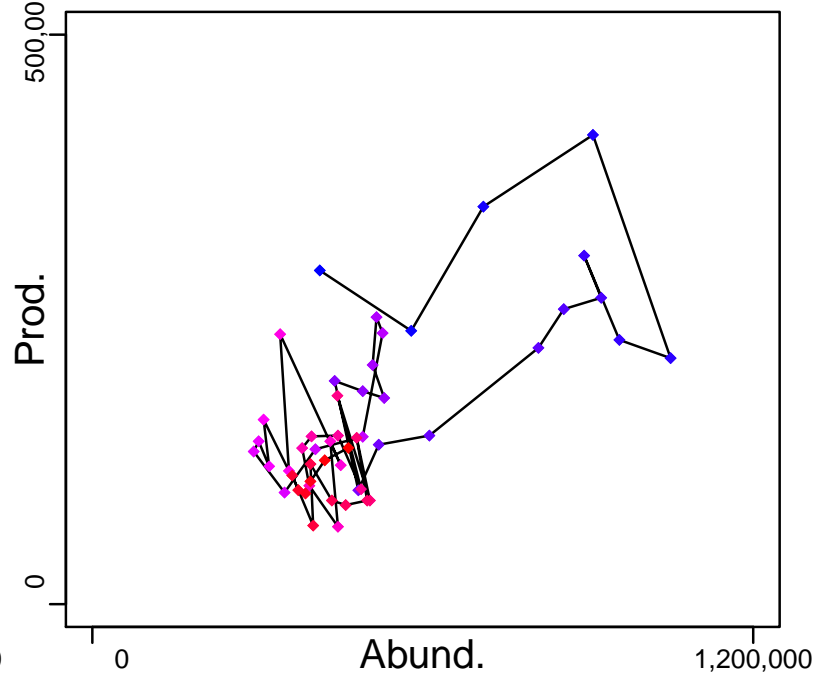
Kobe MGTpref (1964–2018–ICESIMP2018)



Spawner Recruit (1964–2018–ICESIMP2018)



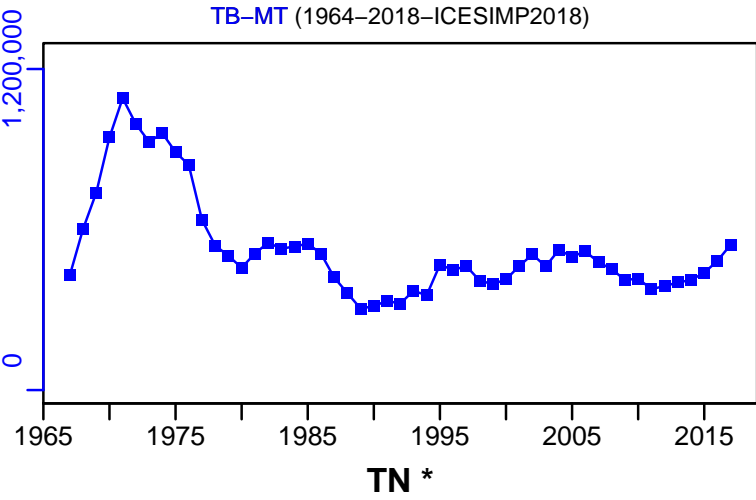
Production (1964–2018–ICESIMP2018)



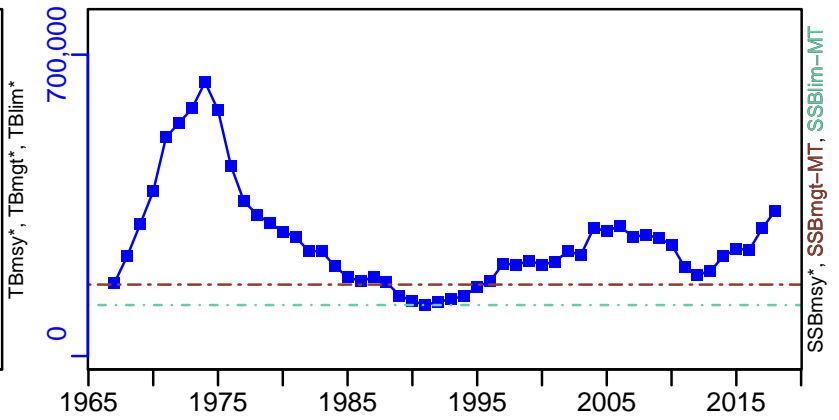
◆ Start Year ◆ End Year * No Data

Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]

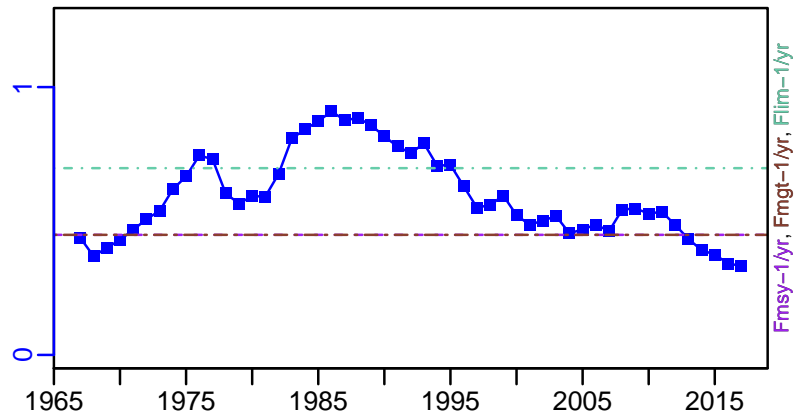
TB-MT (1964–2018–ICESIMP2018)



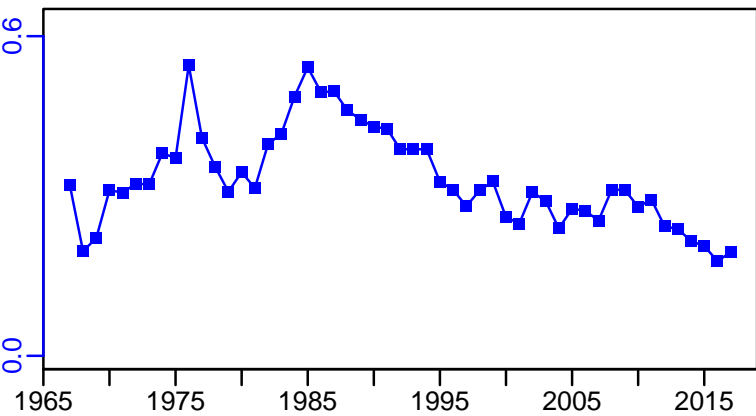
SSB-MT (1964–2018–ICESIMP2018)



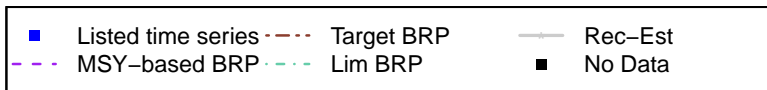
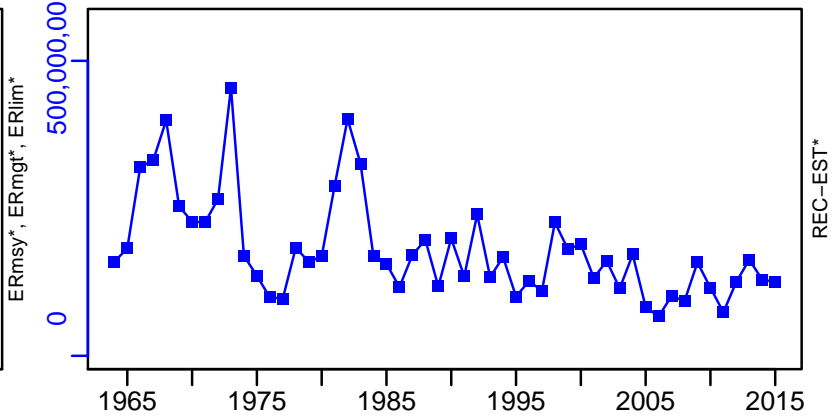
F-1/yr (1964–2018–ICESIMP2018)



ER-calc-ratio (1964–2018–ICESIMP2018)

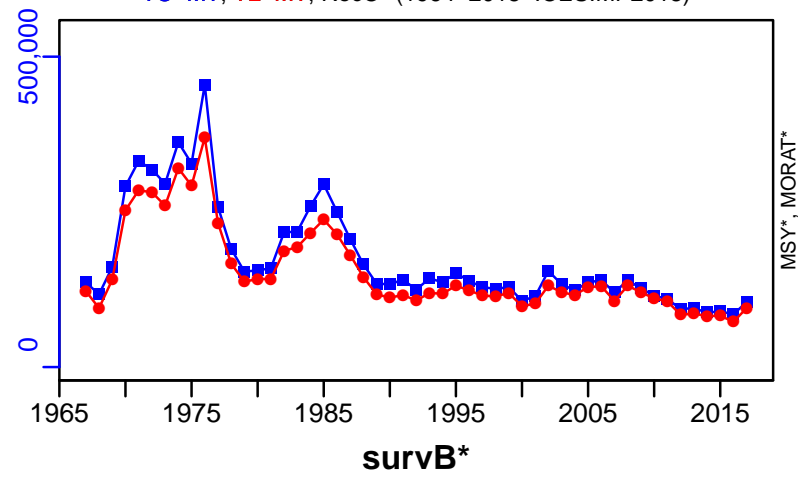


R-E00 (1964–2018–ICESIMP2018)

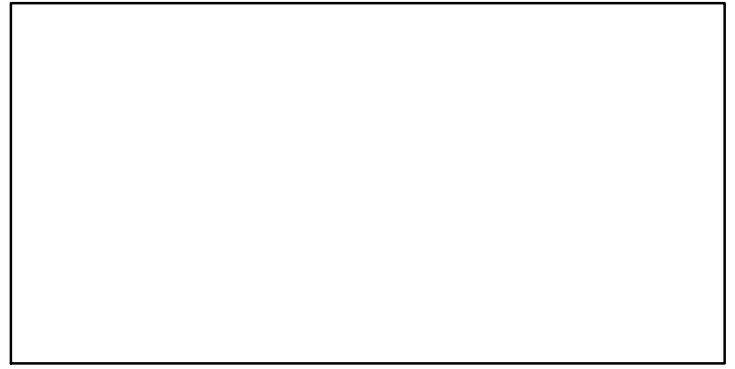


Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]

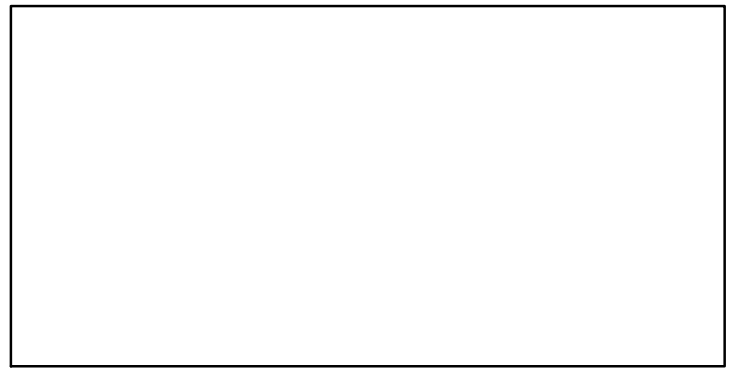
TC-MT, TL-MT, RecC* (1964–2018–ICESIMP2018)



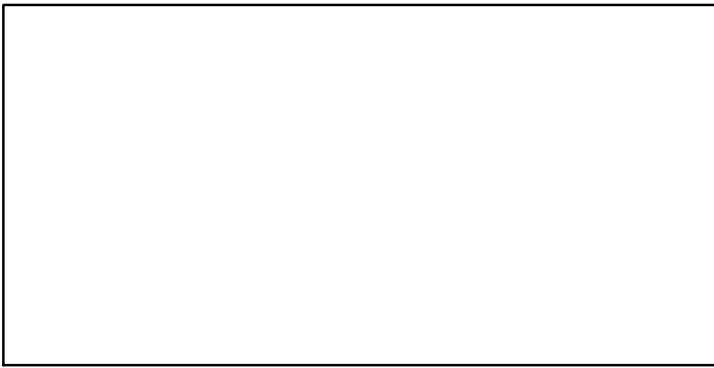
TAC*, Cpair*, Cadv*



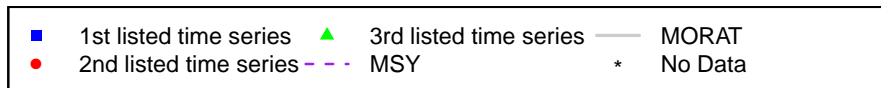
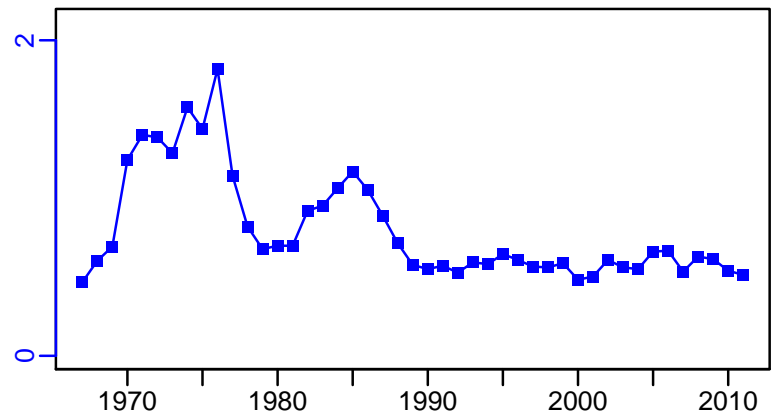
CPUE*



EFFORT*



CdivMSY-ratio (1964–2012–CHING)



Porbeagle shark Northeast Atlantic [PORSHARNEATL]

Metadata	
Scientific Name	Lamna nasus
Current Assess ID	WGEF-PORSHARNEATL-1926-2014-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	7		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

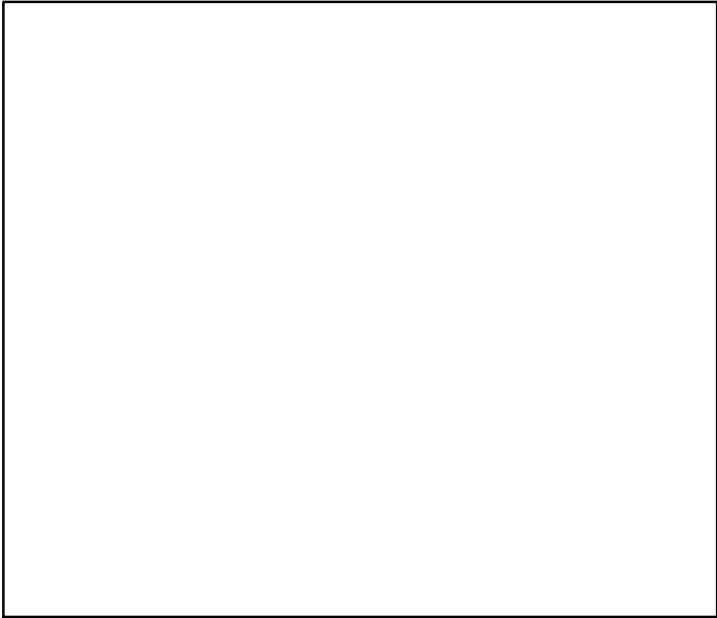
Kobe MSY*



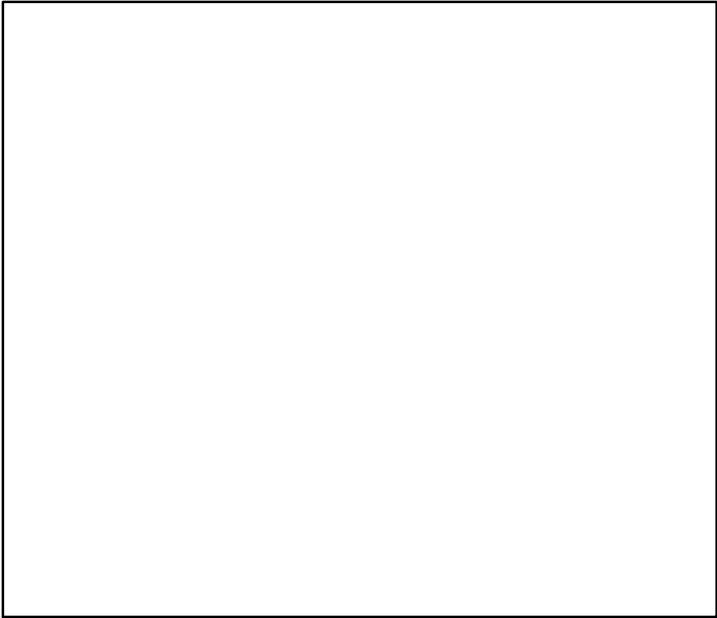
Kobe MGT*



Spawner Recruit*



Production*



♦ Start Year ♦ End Year * No Data

Porbeagle shark Northeast Atlantic [PORSHARNEATL]

TB*



SSB*



TN *



F*



ER*

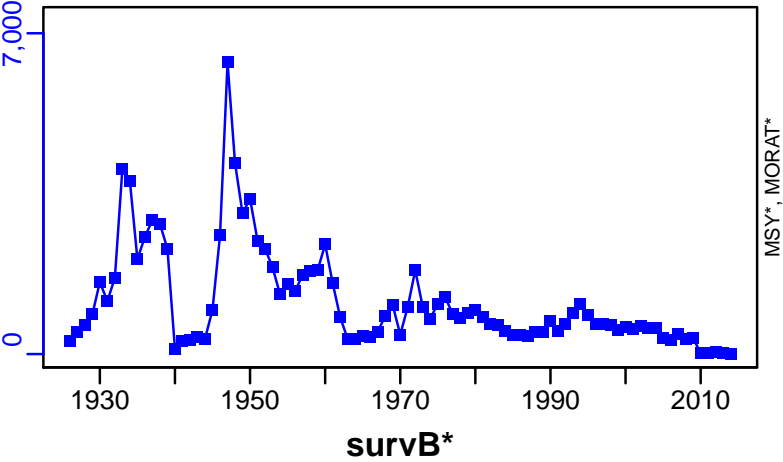


Recruits*

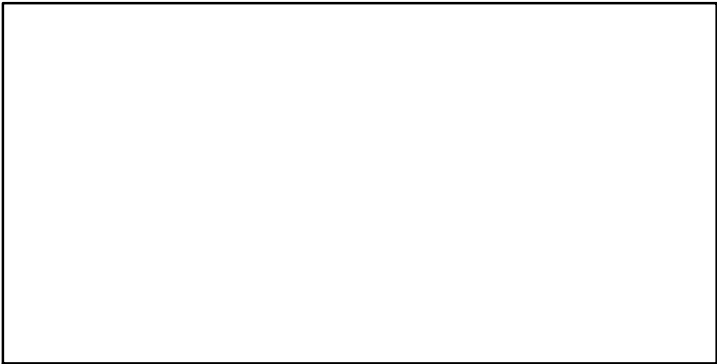


Porbeagle shark Northeast Atlantic [PORSHARNEATL]

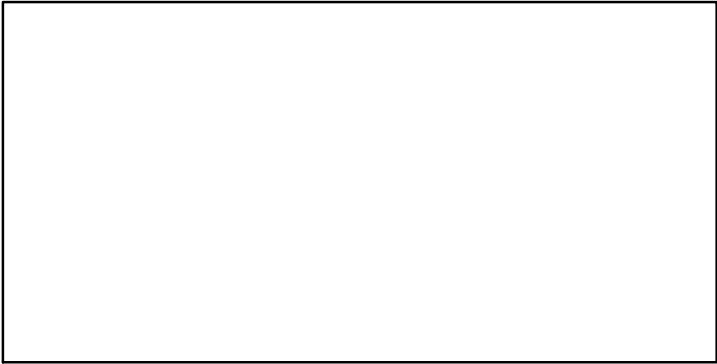
TL-MT, TC*, RecC* (1926–2014–ICESIMP2018)



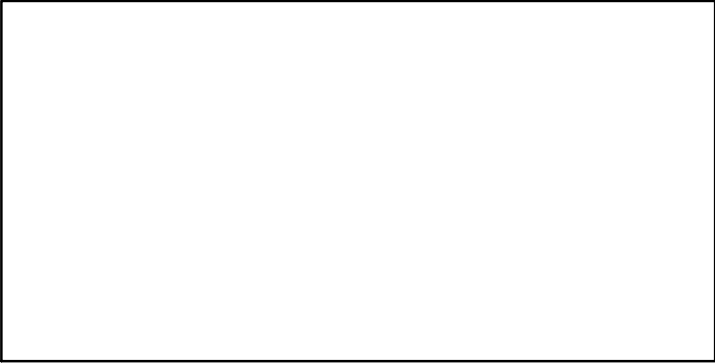
TAC*, Cpair*, Cadv*



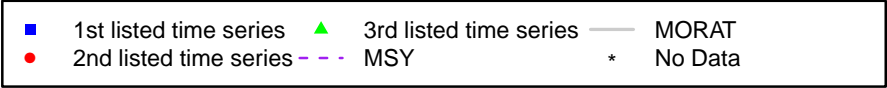
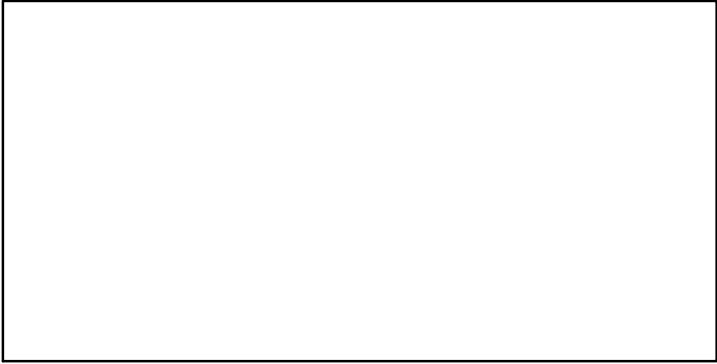
CPUE*



EFFORT*



CdivMSY*



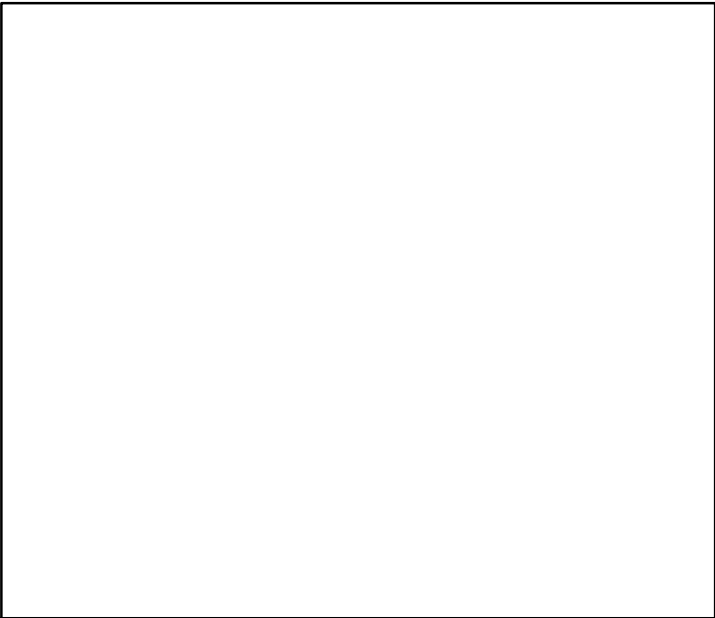
Red seabream IX [RBRMIX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMIX-1988-2017-ICESIMP2018
Area	IX
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	295		
TL	TL-MT	2017	336		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

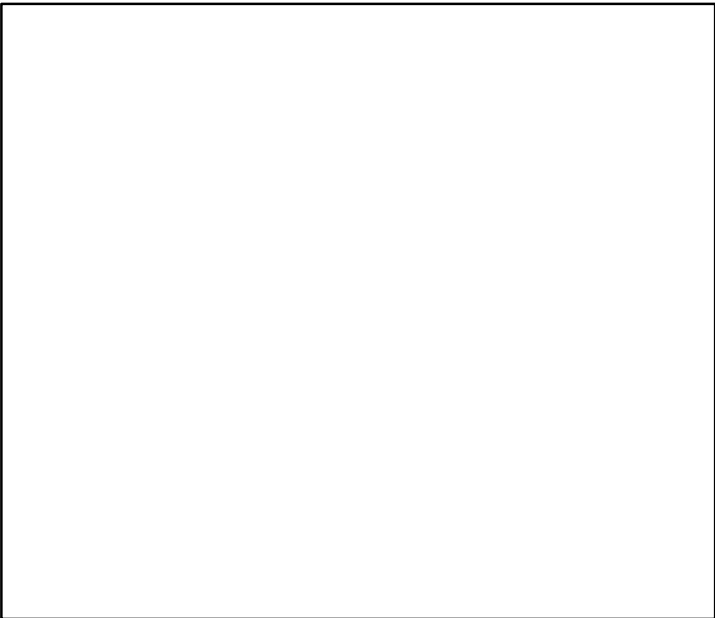
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red seabream IX [RBRMIX]

TB*



SSB*



TN *



F*



ER*

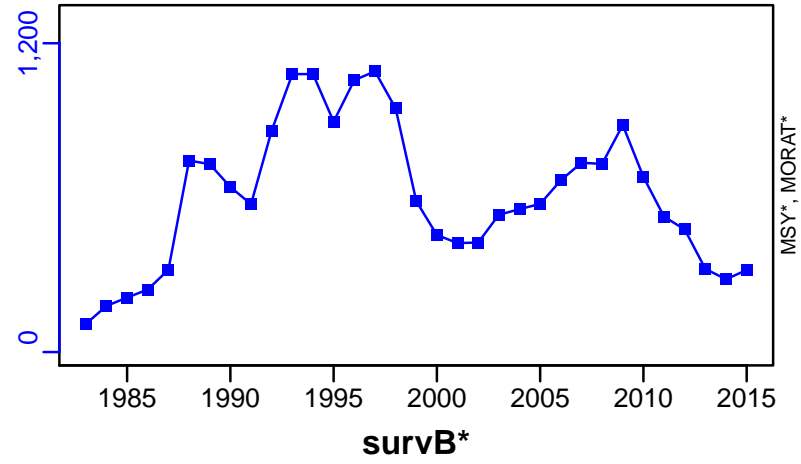


Recruits*

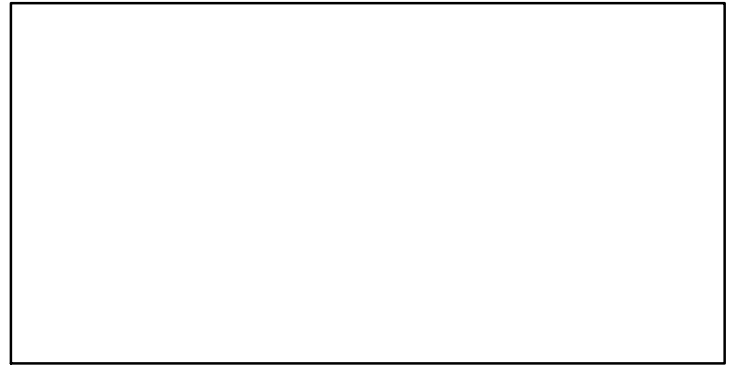


Red seabream IX [RBRMIX]

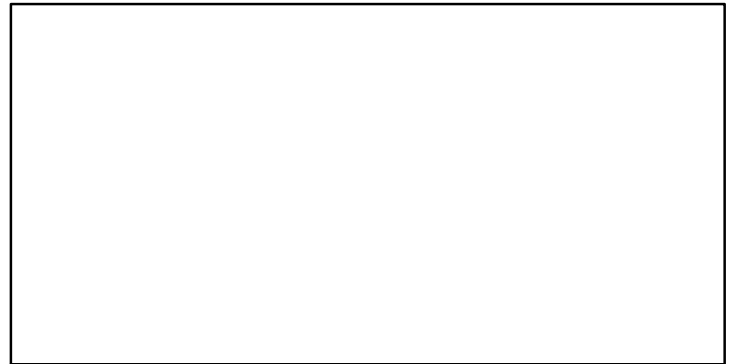
TC-MT, TL*, RecC* (1983–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Red seabream VI-VII-VIII [RBRMVI-VII-VIII]

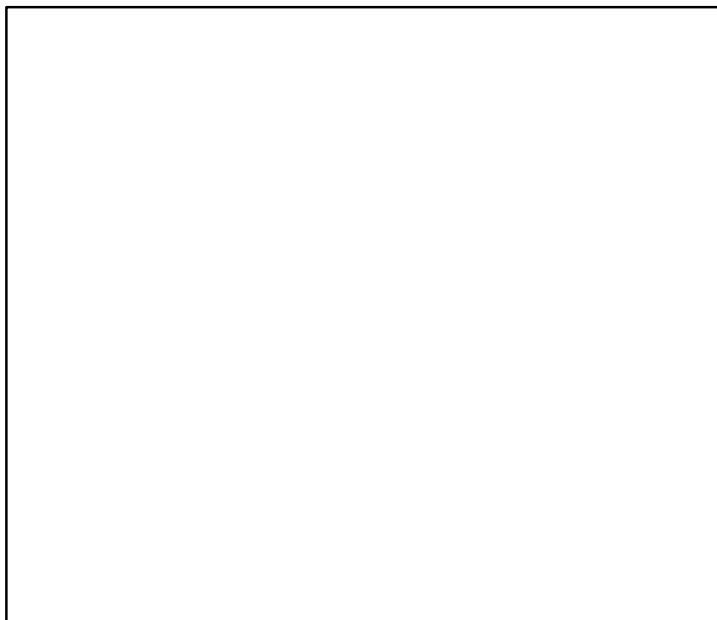
Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMVI-VII-VIII-1948-2017-ICESIMP2018
Area	VI-VII-VIII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

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

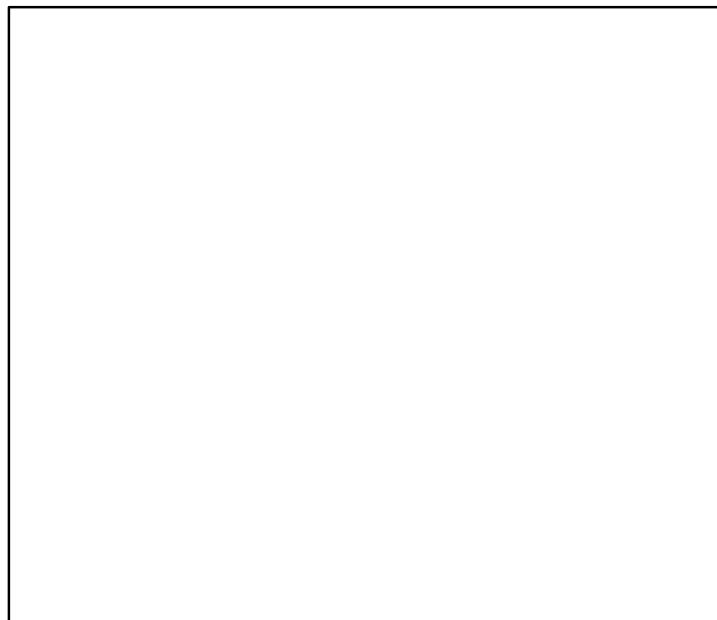
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	125		
TL	TL-MT	2017	124		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Red seabream VI–VII–VIII [RBRMVI–VII–VIII]

Kobe MSY*



Kobe MGT*



Spawner Recruit*



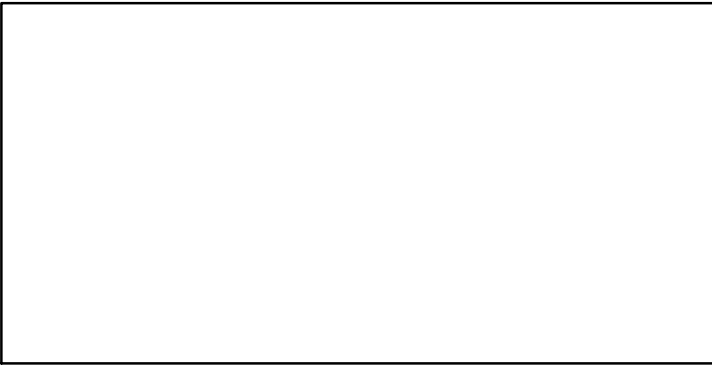
Production*



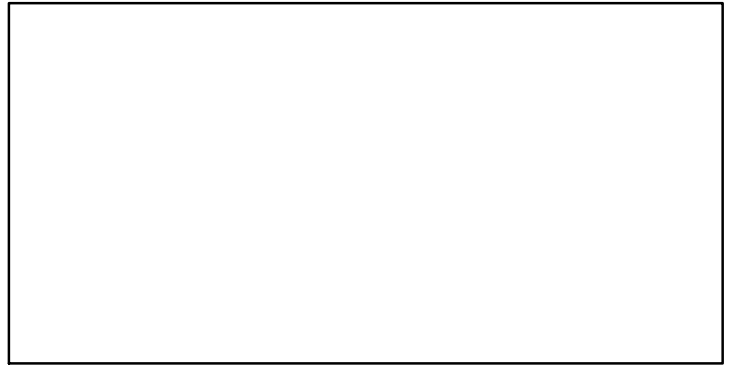
◆ Start Year ◆ End Year * No Data

Red seabream VI–VII–VIII [RBRMVI–VII–VIII]

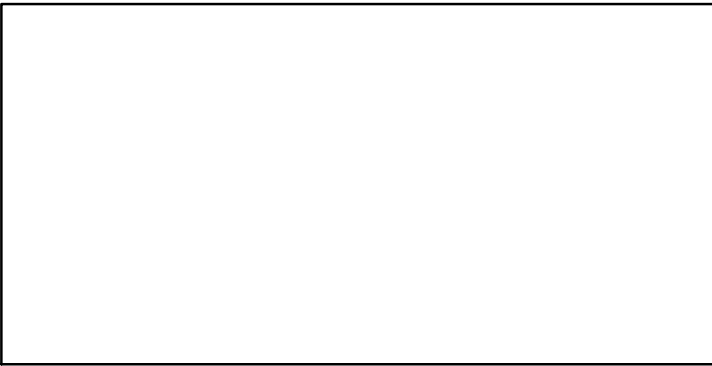
TB*



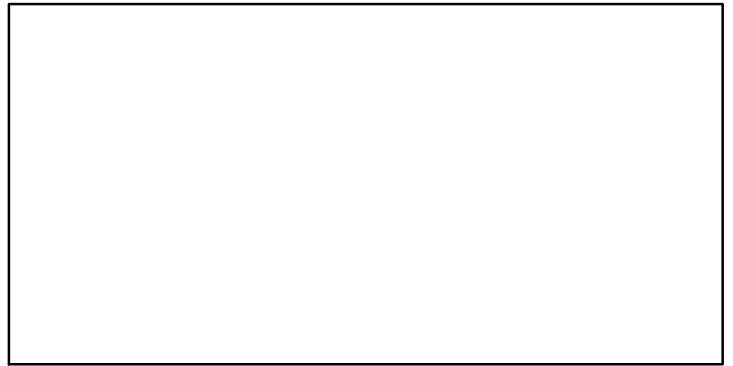
SSB*



TN *



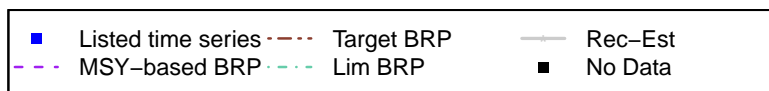
F*



ER*

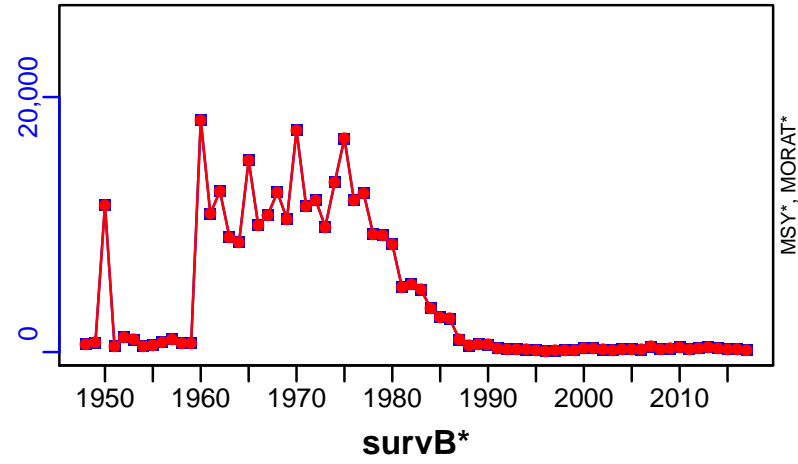


Recruits*

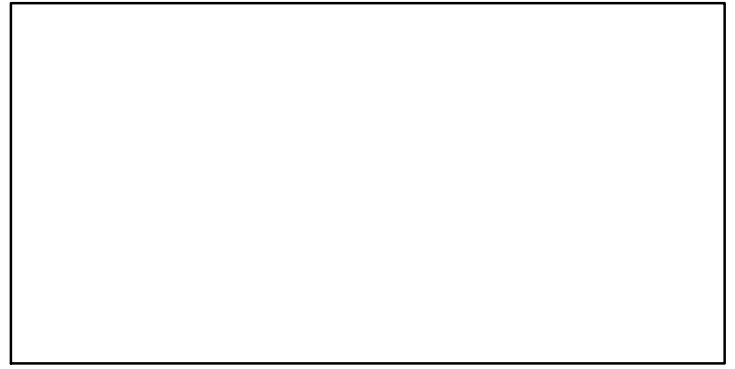


Red seabream VI–VII–VIII [RBRMVI–VII–VIII]

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



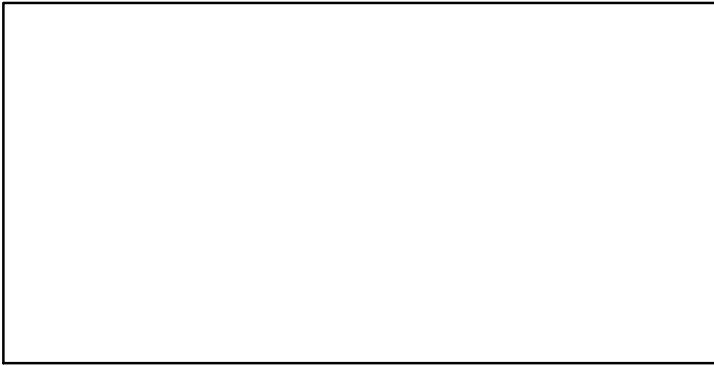
TAC*, Cpair*, Cadv*



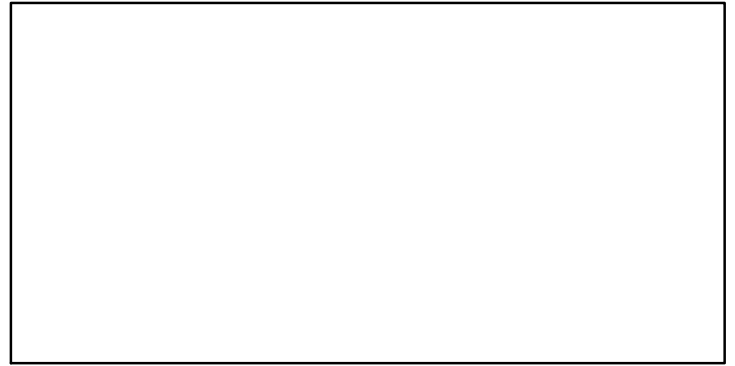
CPUE*



EFFORT*



CdivMSY*



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

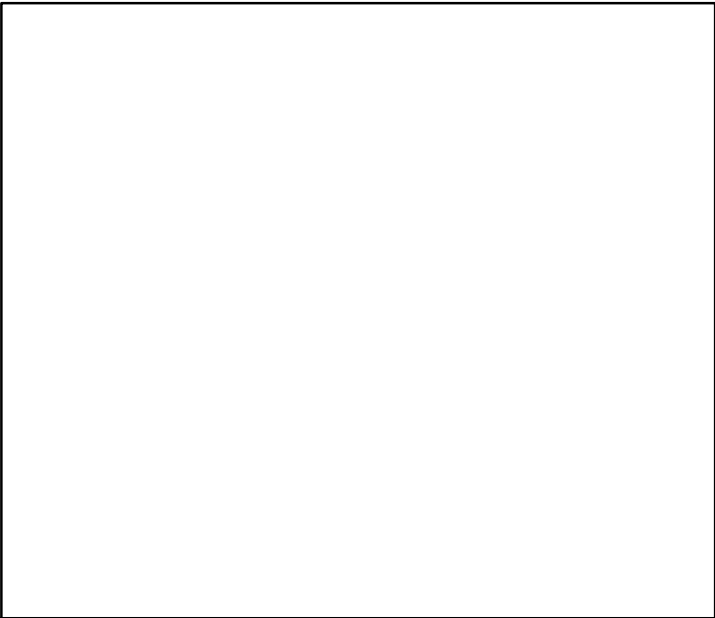
Red seabream Azores Grounds [RBRMX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMX-1980-2017-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	499		
TL	TL-MT	2016	701		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

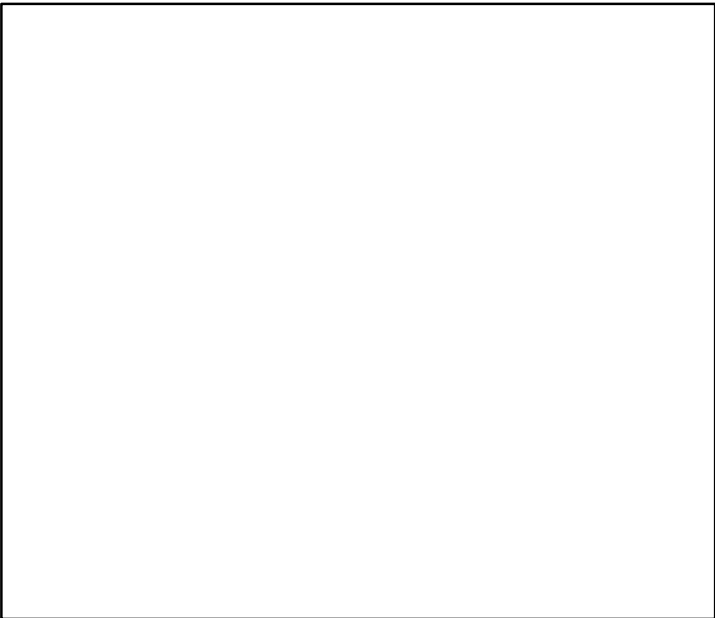
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red seabream Azores Grounds [RBRMX]

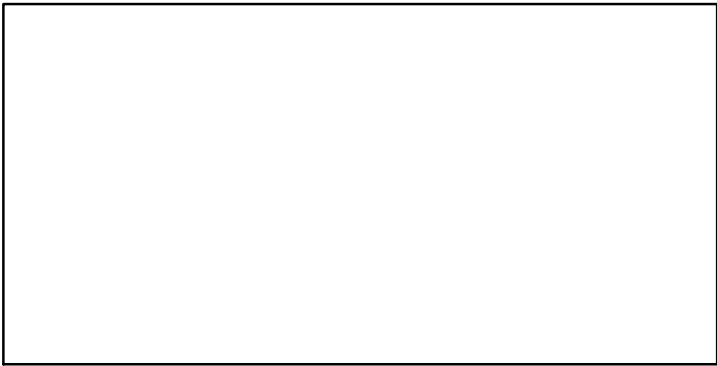
TB*



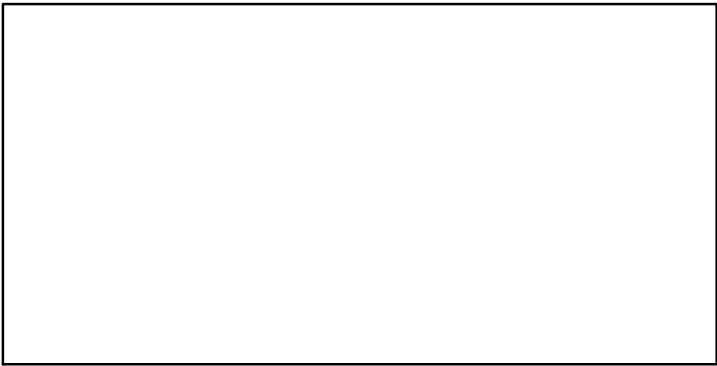
SSB*



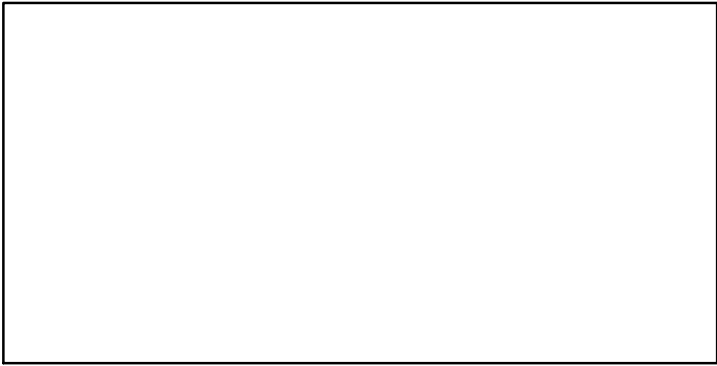
TN *



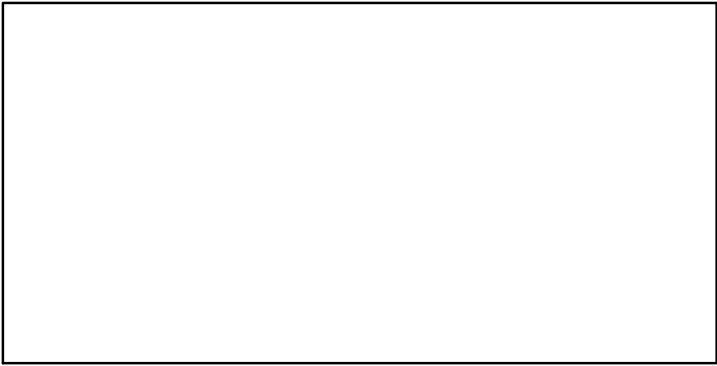
F*



ER*



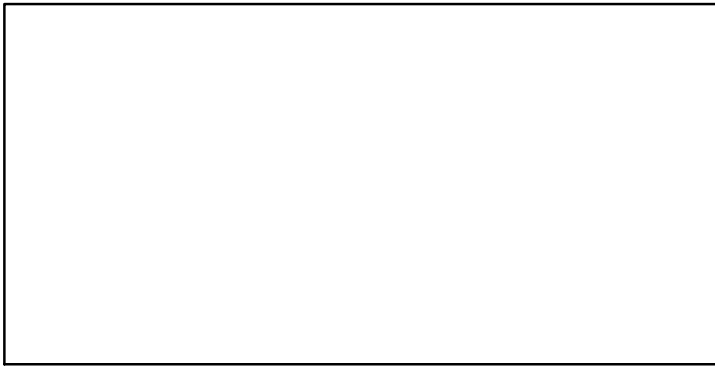
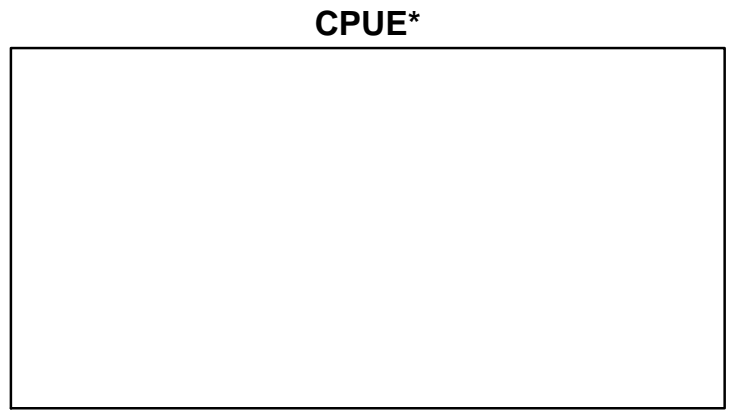
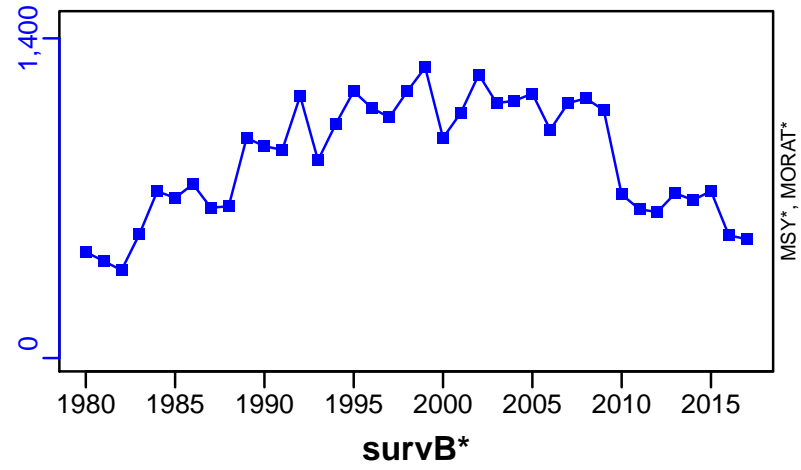
Recruits*



Red seabream Azores Grounds [RBRMX]

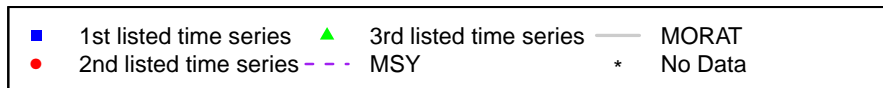
TC-MT, TL*, RecC* (1980–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*



Beaked Redfish Southeast Greenland [REDDEEPXIVb]

Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPXIVb-1974-2017-ICESIMP2018
Area	Southeast Greenland
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016, 2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5980		
TL	TL-MT	2017	3030		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

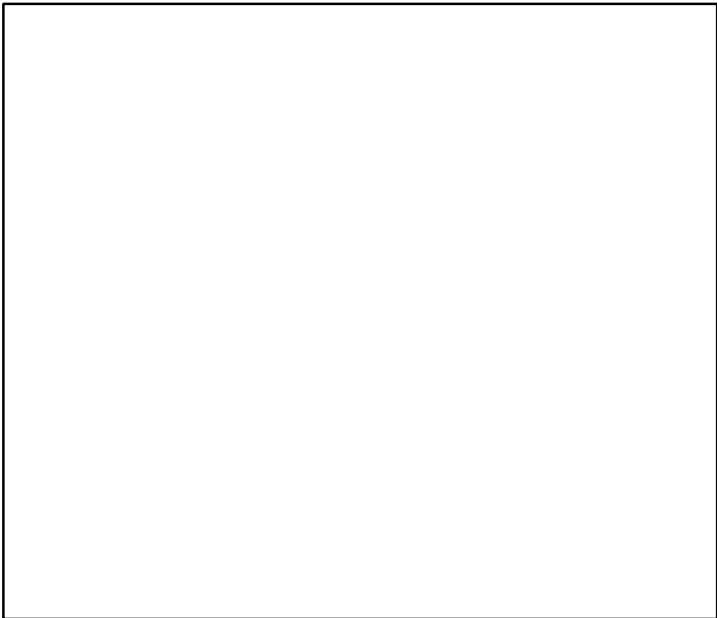
Kobe MSY*



Kobe MGT*



Spawner Recruit*



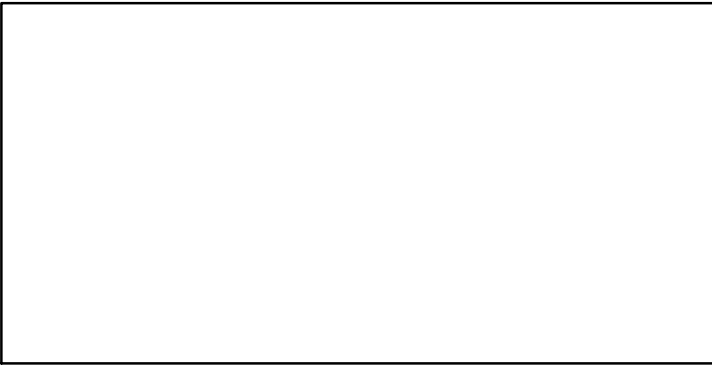
Production*



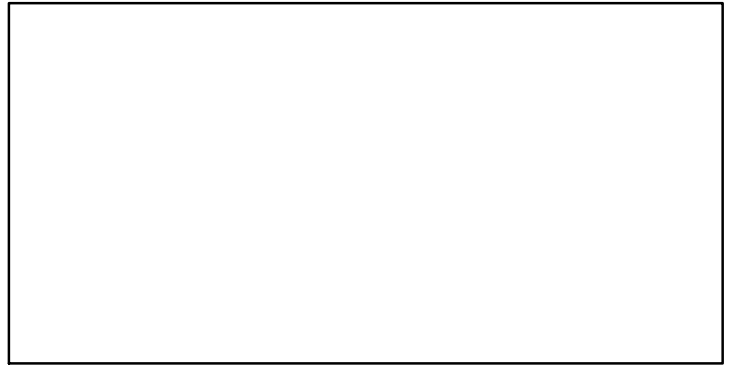
◆ Start Year ◆ End Year * No Data

Beaked Redfish Southeast Greenland [REDDEEPXIVb]

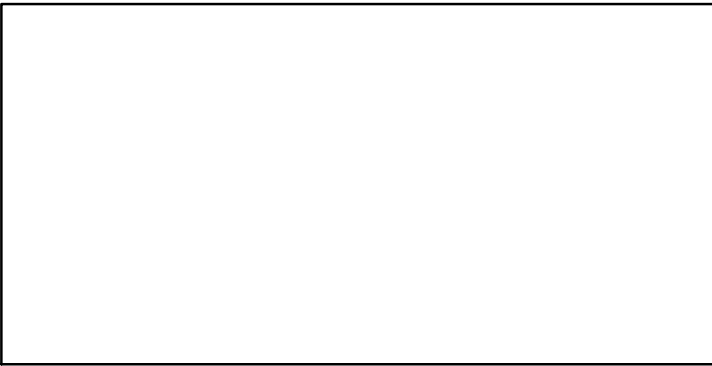
TB*



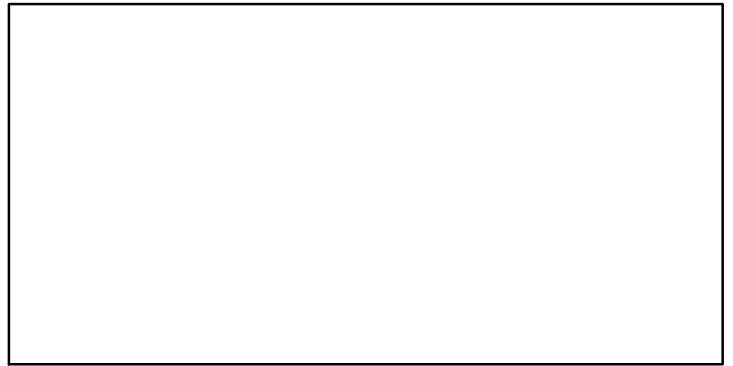
SSB*



TN *



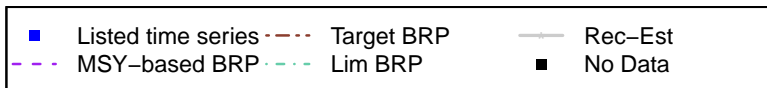
F*



ER*

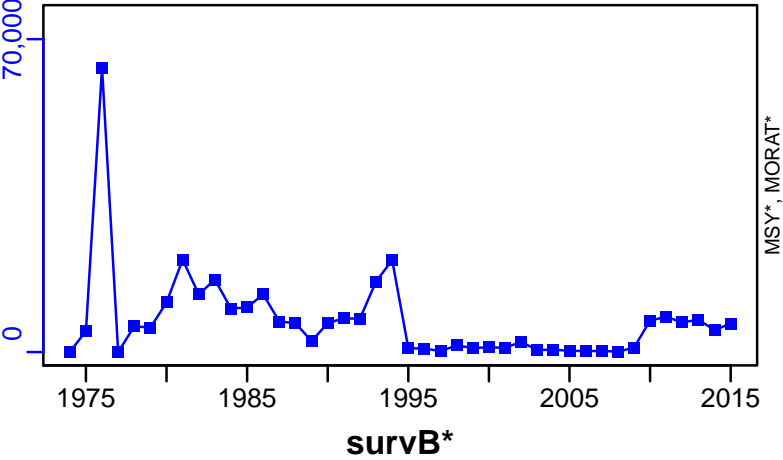


Recruits*



Beaked Redfish Southeast Greenland [REDDEEPXIVb]

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



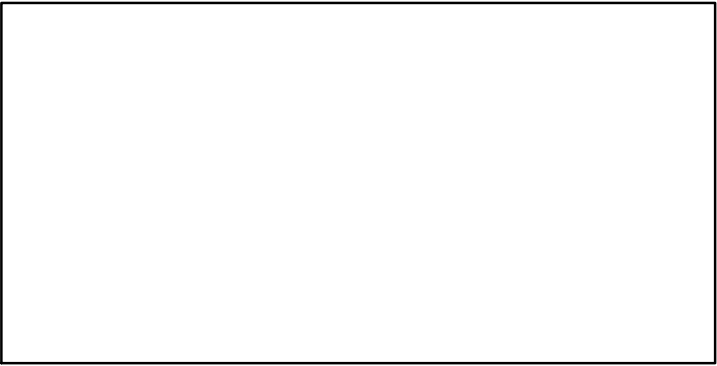
TAC*, Cpair*, Cadv*



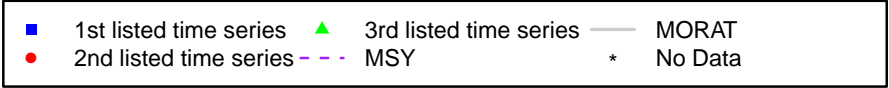
CPUE*



EFFORT*



CdivMSY*



Red gurnard Northeast Atlantic [RGURNNEATL]

Metadata	
Scientific Name	Chelidonichthys cuculus
Current Assess ID	WGWIDE-RGURNNEATL-2006-2016-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	3650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

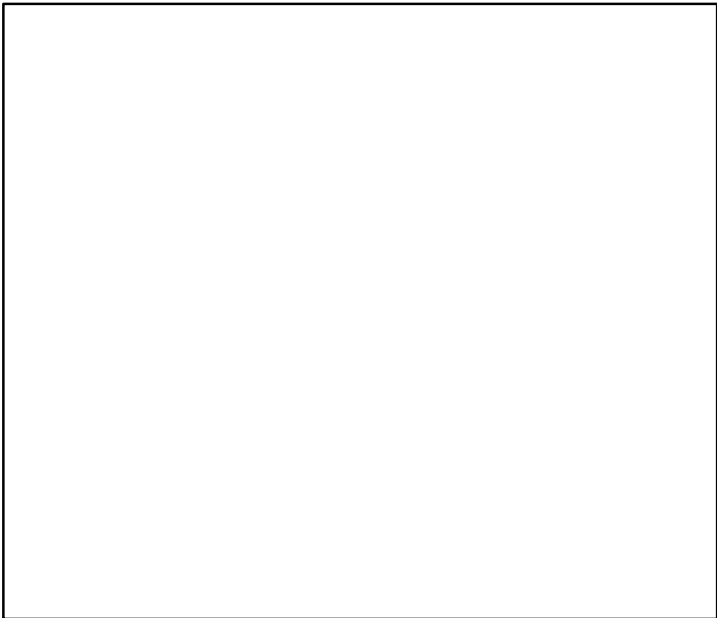
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red gurnard Northeast Atlantic [RGURNNEATL]

TB*



SSB*



TN *



F*



ER*

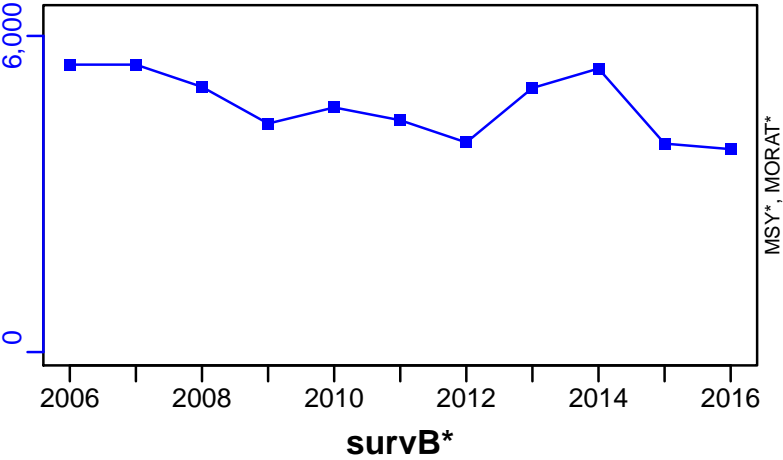


Recruits*



Red gurnard Northeast Atlantic [RGURNNEATL]

TL-MT, TC*, RecC* (2006–2016–ICESIMP2018)



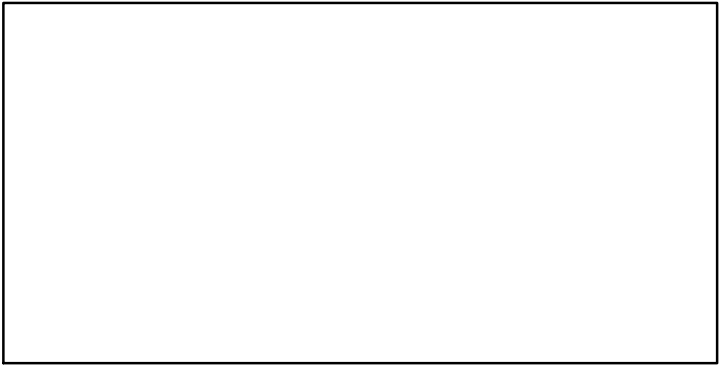
TAC*, Cpair*, Cadv*



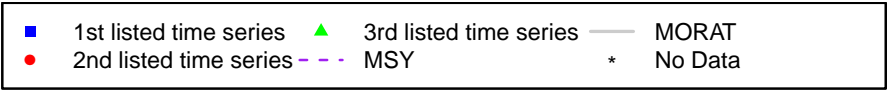
CPUE*



EFFORT*



CdivMSY*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

Metadata	
Scientific Name	Macrourus berglax
Current Assess ID	WGDEEP-RHGRENNEATL-1990-2015-ICESIMP2016
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	654		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

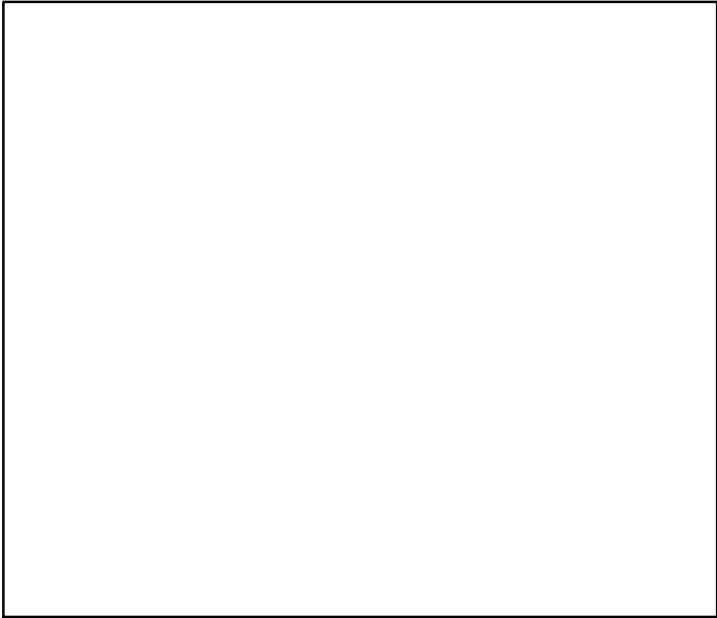
Kobe MSY*



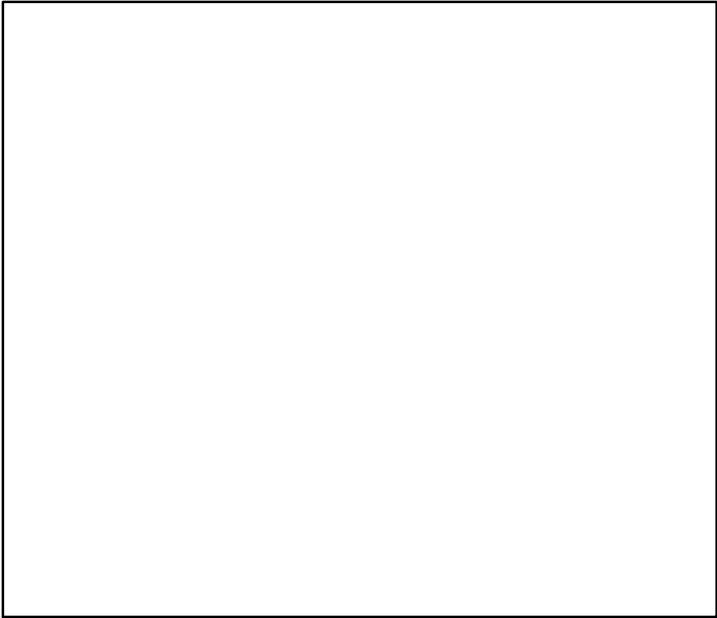
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

TB*



SSB*



TN *



F*



ER*



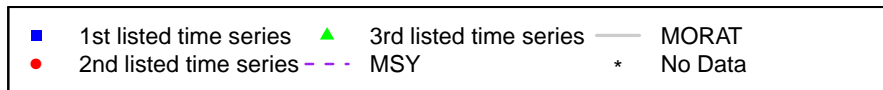
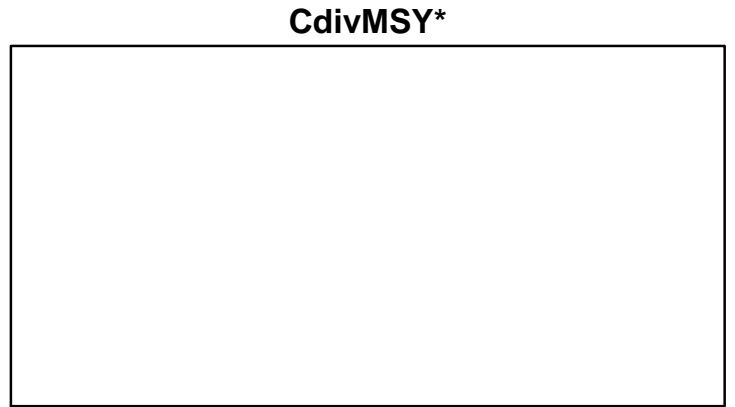
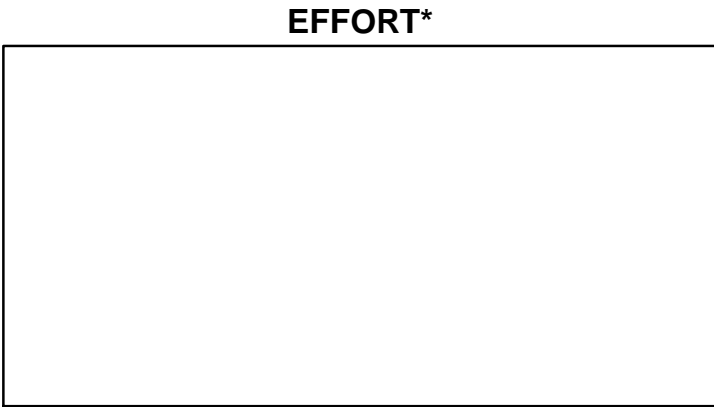
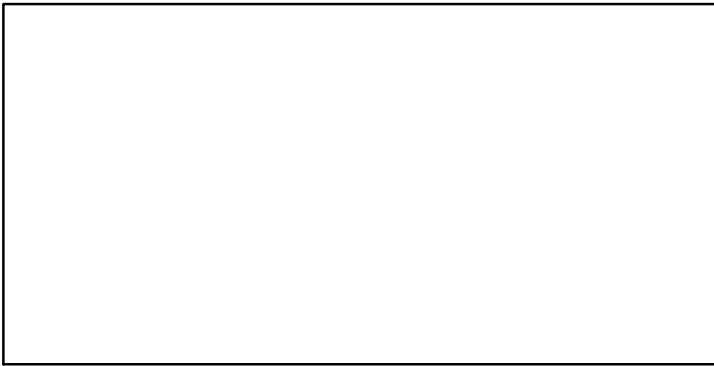
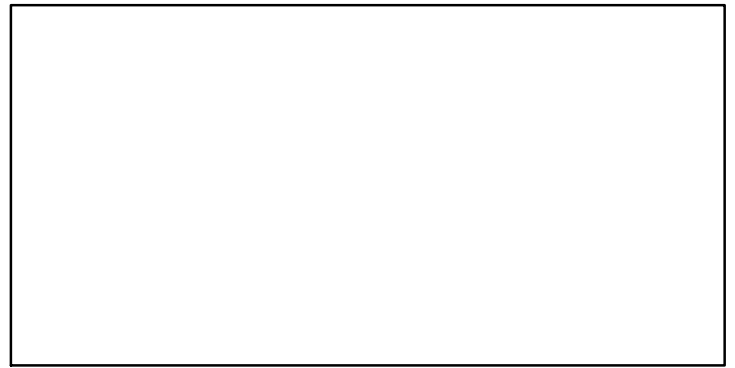
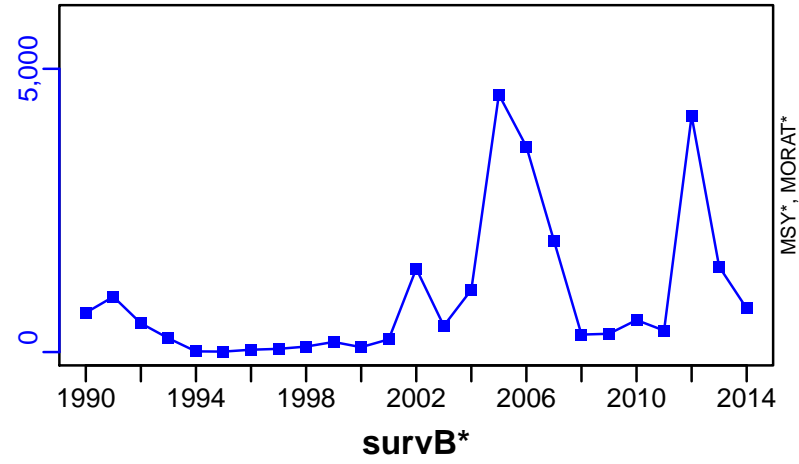
Recruits*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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

TAC*, Cpair*, Cadv*



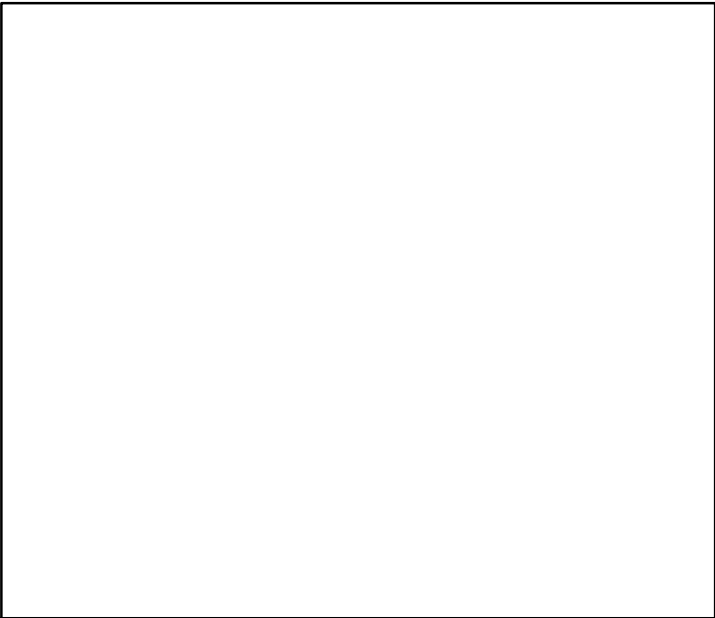
Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2 [RNGENI-II-IV-Va2-VIII-IX-XIVab2]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENI-II-IV-Va2-VIII-IX-XIVab2-1990-2016-ICESIMP2018
Area	I-II-IV-Va2-VIII-IX-XIVab2
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	58		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

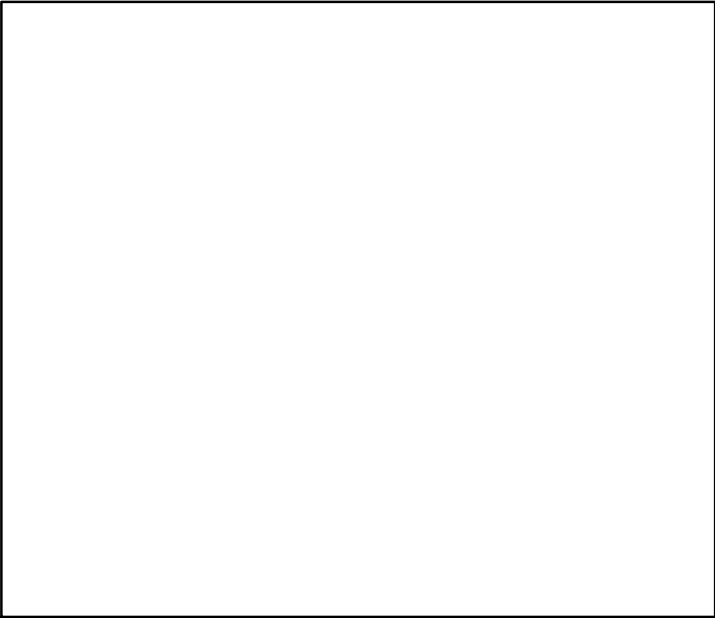
Kobe MSY*



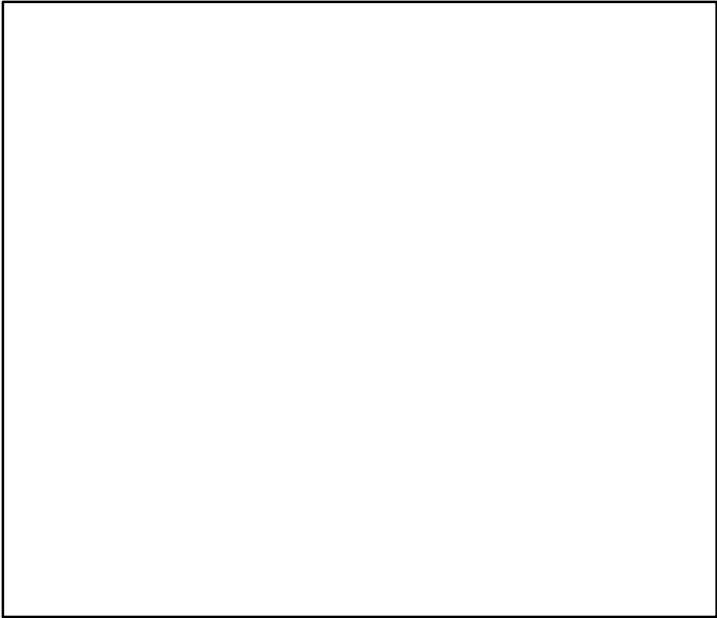
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

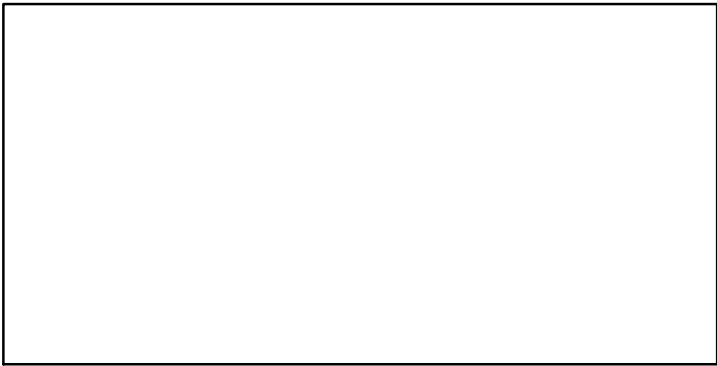
TB*



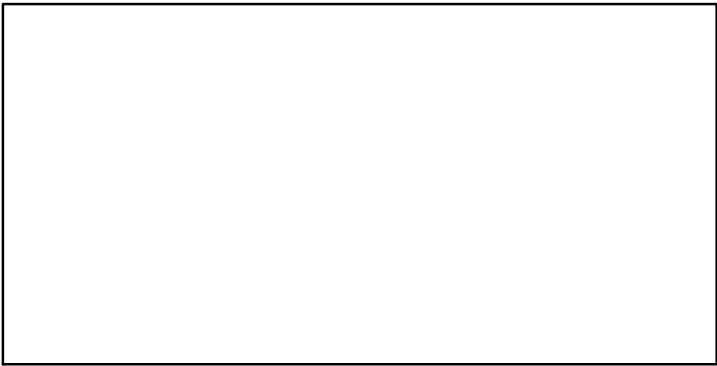
SSB*



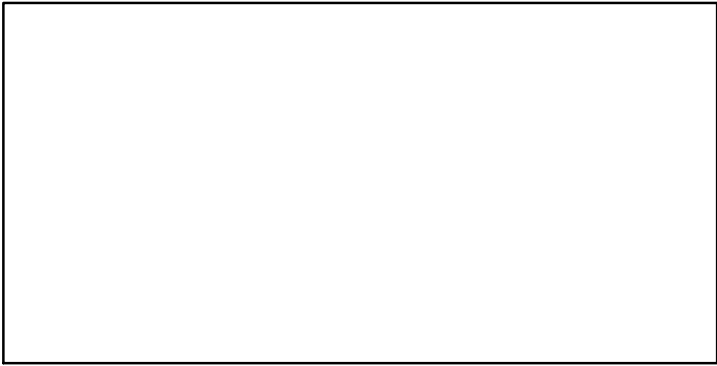
TN *



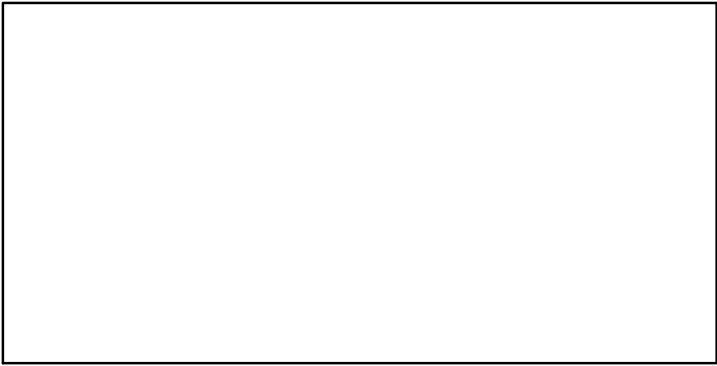
F*



ER*

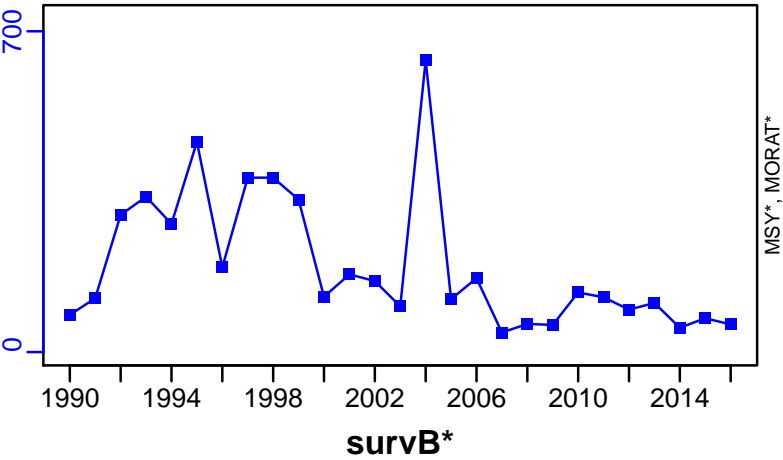


Recruits*



Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2 [RNGENI-II-IV-Va2-VIII-IX-XIVab2]

TL-MT, TC*, RecC* (1990-2016-ICESIMP2018)



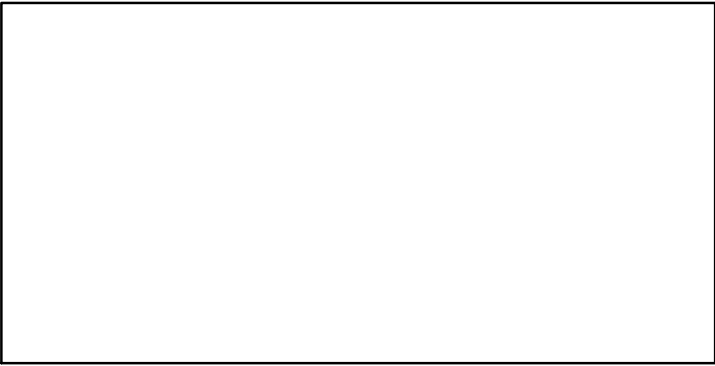
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



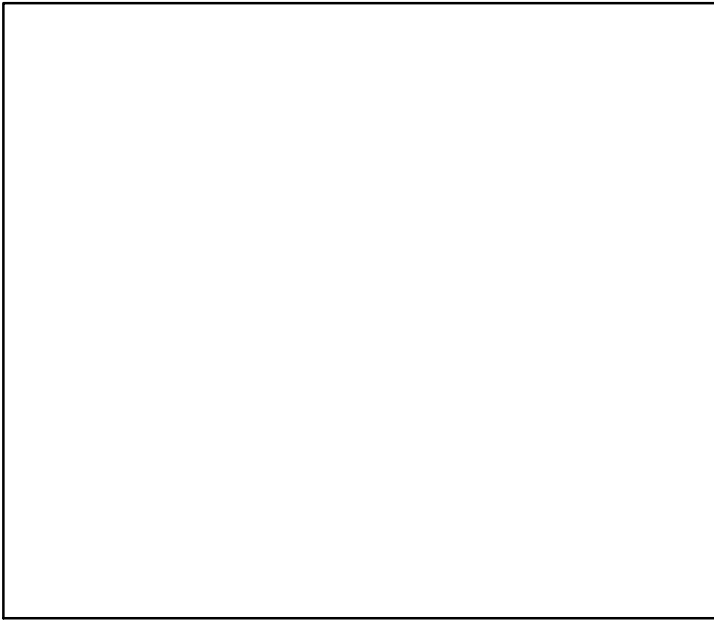
Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENMATLR-1973-2016-ICESIMP2018
Area	Mid-Atlantic Ridge (Xb, XIIc, Va1, XIIa1, XIVb1)
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, 2015

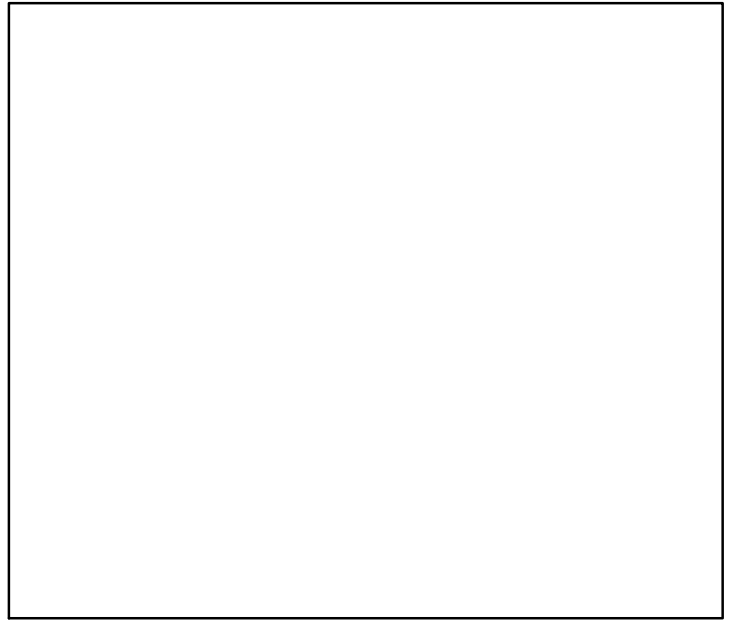
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	660		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

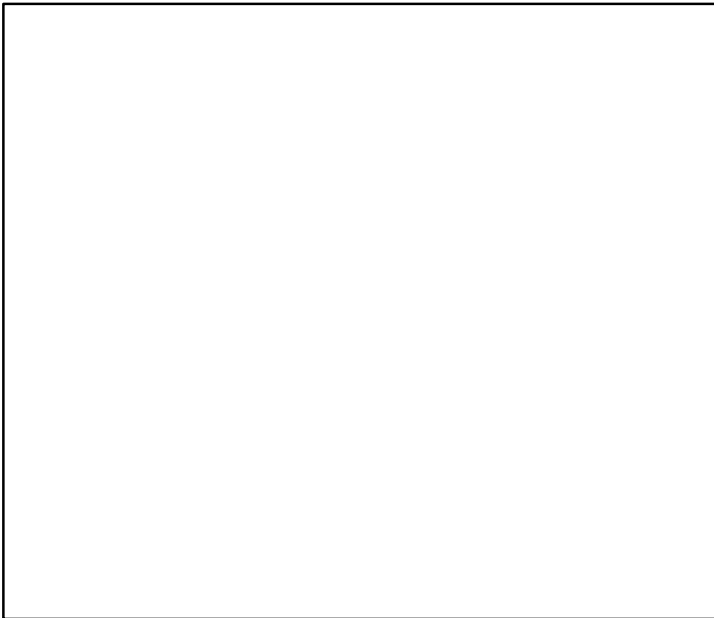
Kobe MSY*



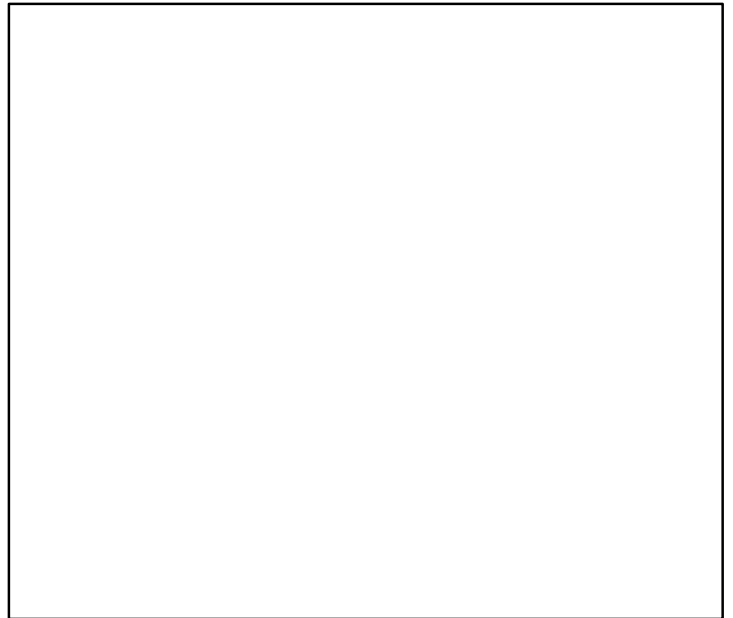
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

TB*



SSB*



TN *



F*



ER*



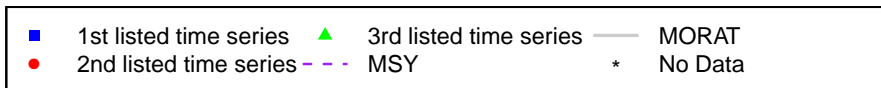
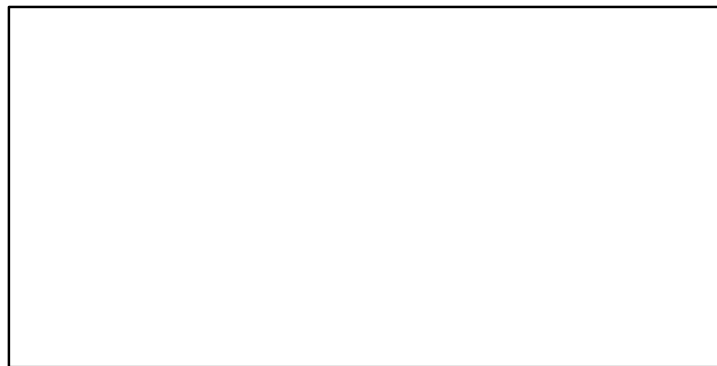
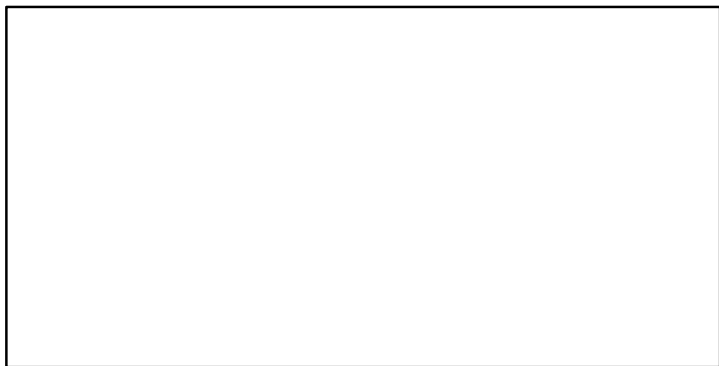
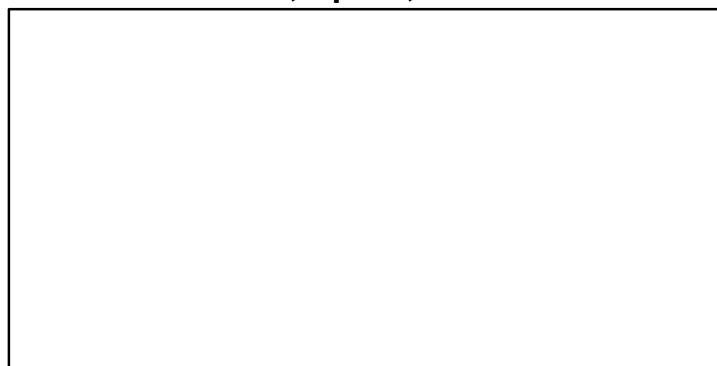
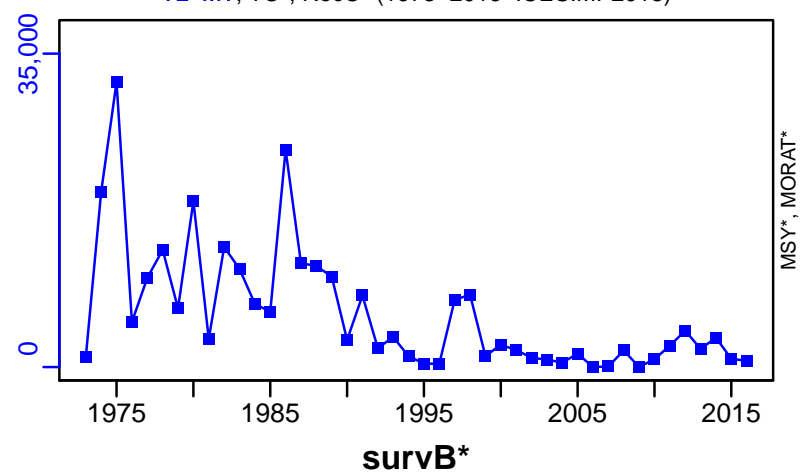
Recruits*



Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

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

TAC*, Cpair*, Cadv*



Roundnose grenadier Vb-VI-VII-XIIb [RNGENVb-VI-VII-XIIb]

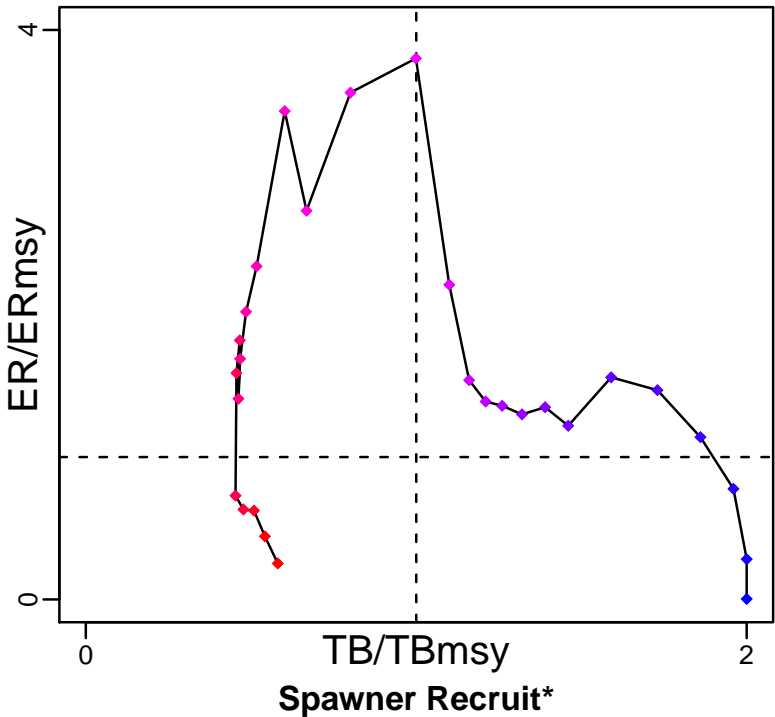
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENVb-VI-VII-XIIb-1988-2017-ICESIMP2018
Area	Vb-VI-VII-XIIb
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts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

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

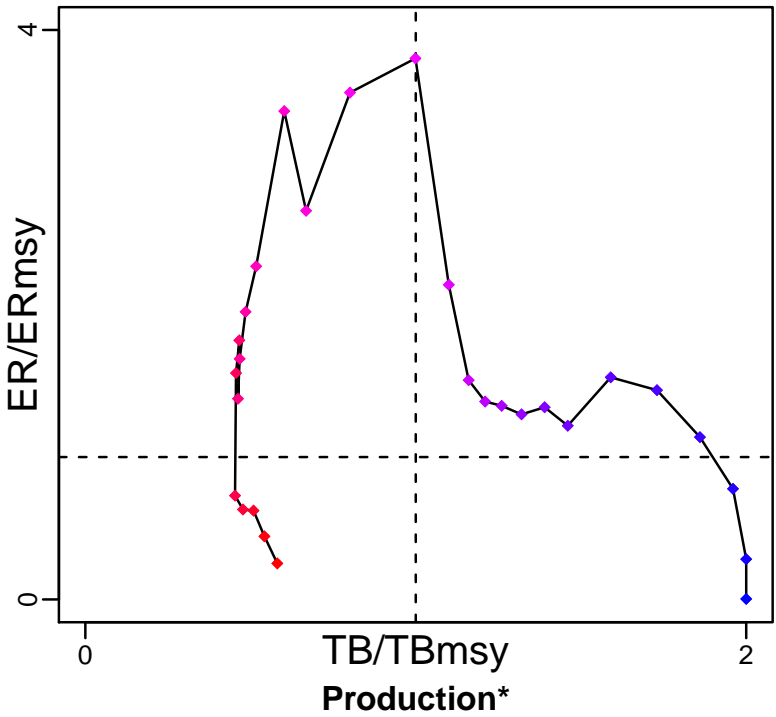
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	1660		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.581		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2016	0.253		
TB/TBmgt	-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

Roundnose grenadier Vb–VI–VII–XI**lb** [RNGENVb–VI–VII–XI**lb**]

Kobe MSYpref (1988–2016–ICESIMP2016)



Kobe MGTpref (1988–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

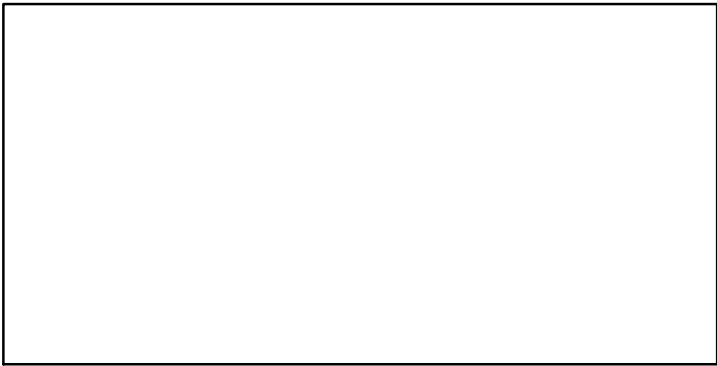
TB*



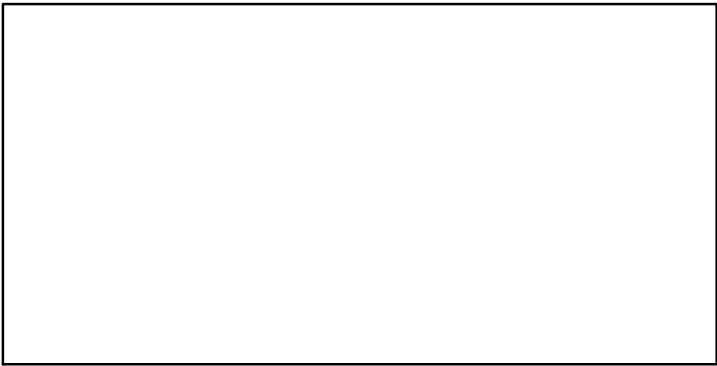
SSB*



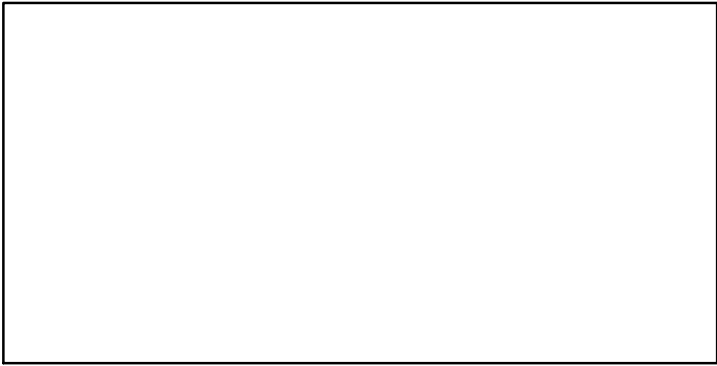
TN *



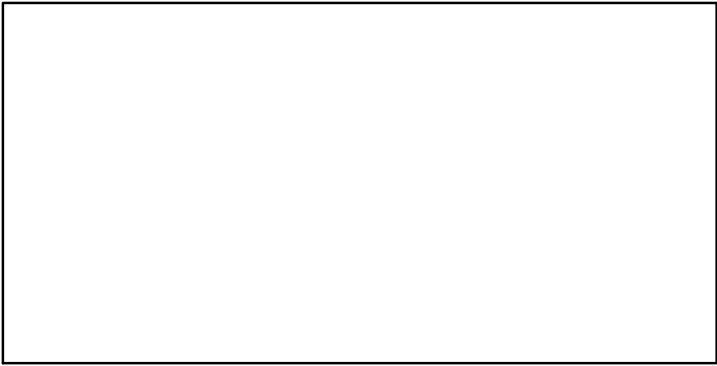
F*



ER*

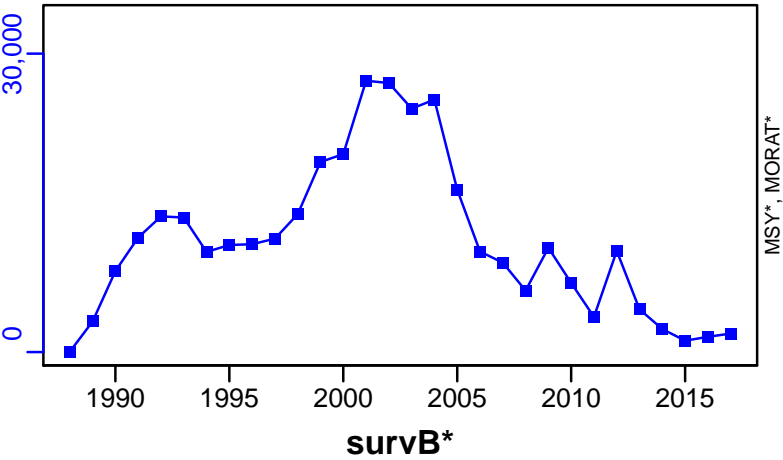


Recruits*



Roundnose grenadier Vb–VI–VII–XI**lb** [RNGENVb–VI–VII–XI**lb**]

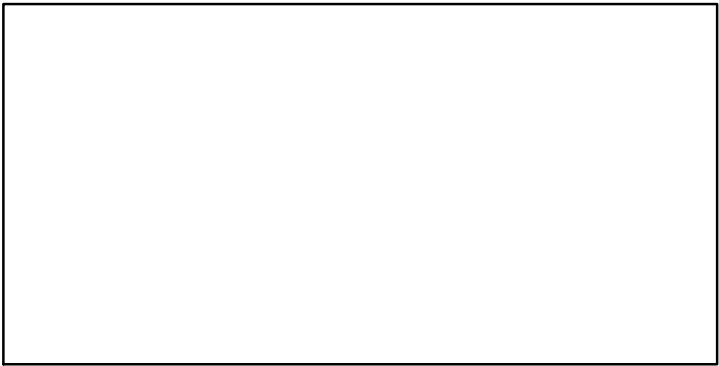
TL–MT, TC*, RecC* (1988–2017–ICESIMP2018)



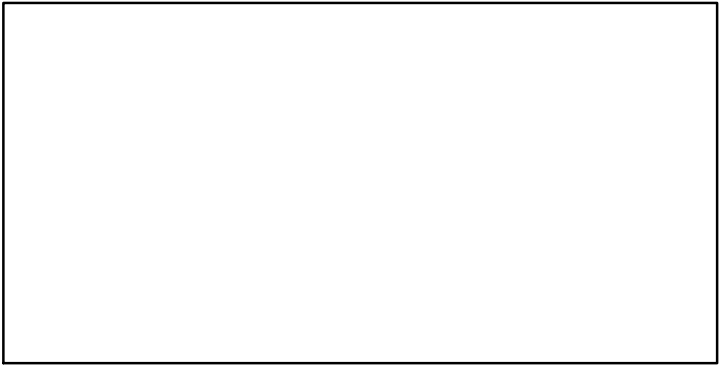
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

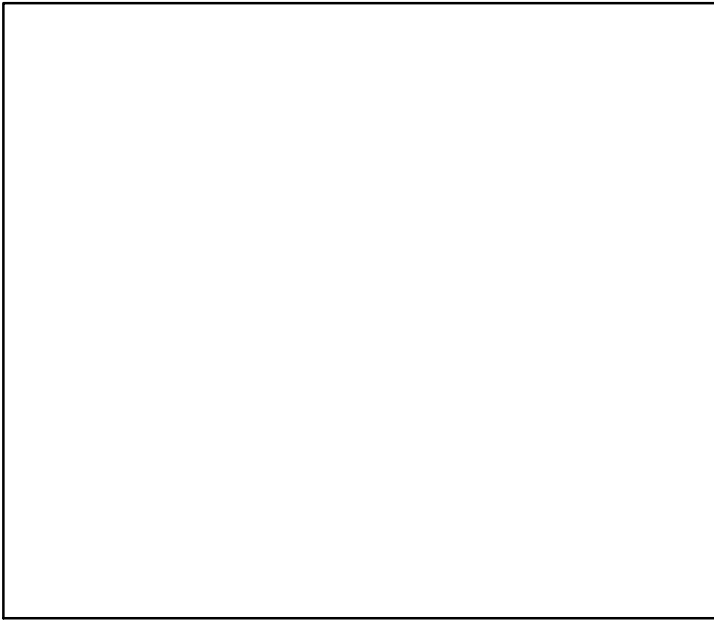
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGRENIIIa-1988-2017-ICESIMP2018
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016, 2017

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

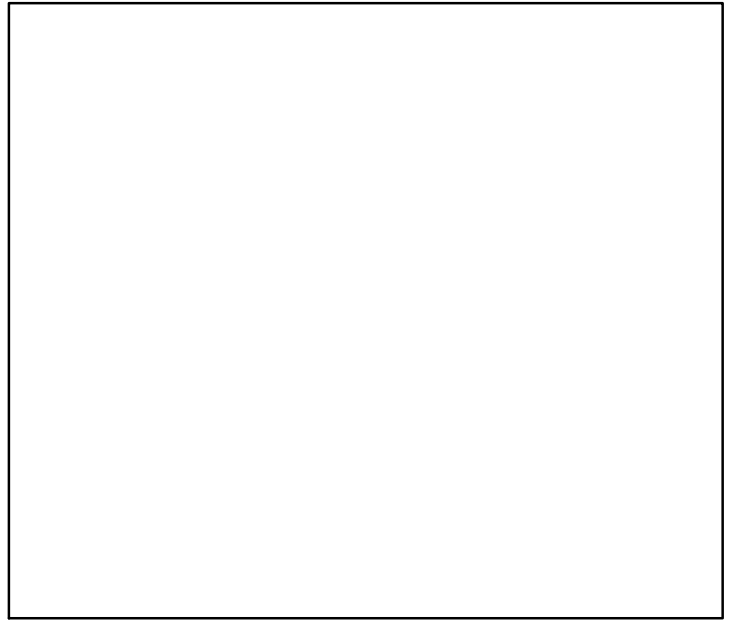
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2		
TL	TL-MT	2017	1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

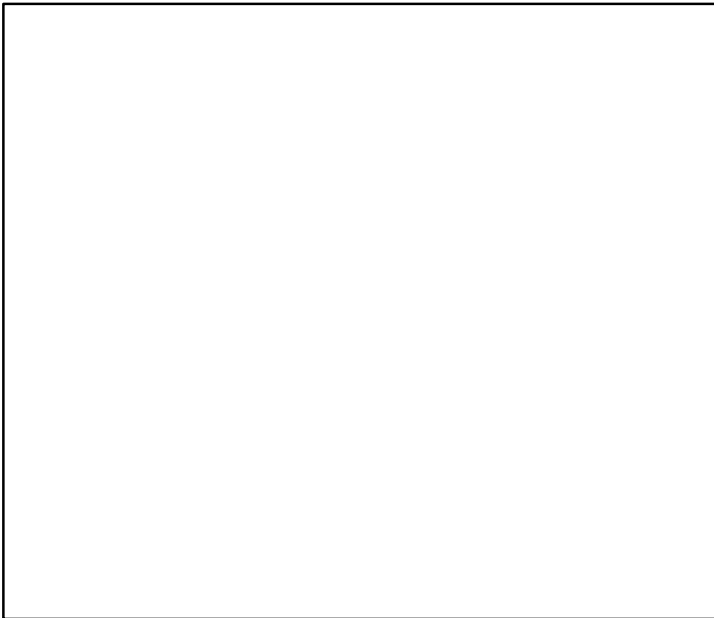
Kobe MSY*



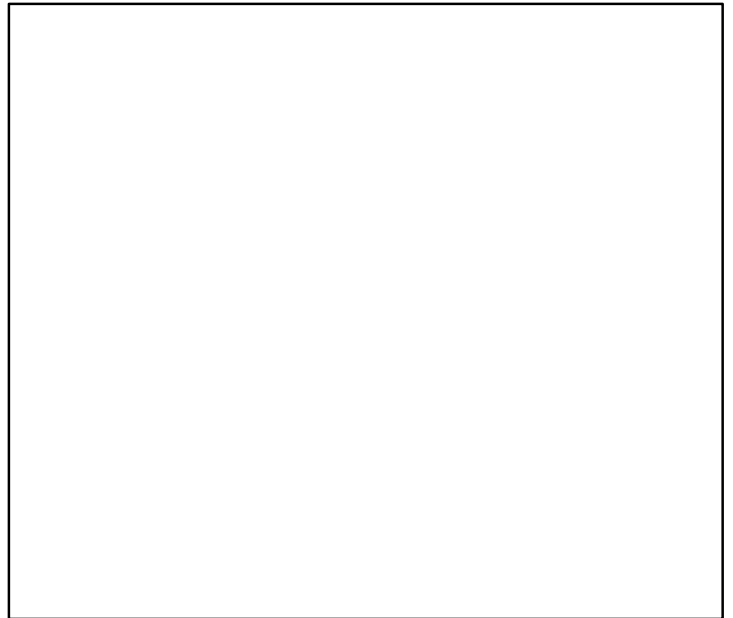
Kobe MGT*



Spawner Recruit*



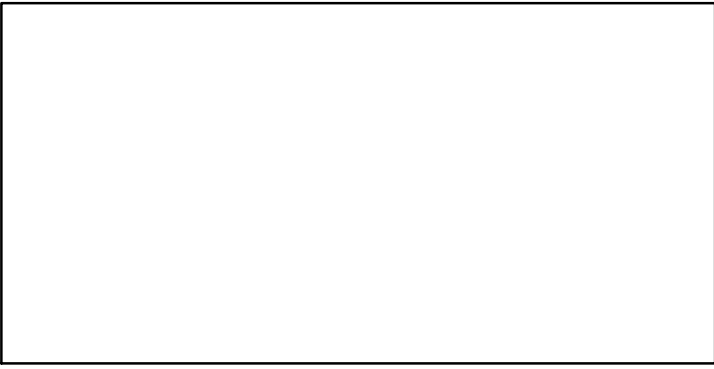
Production*



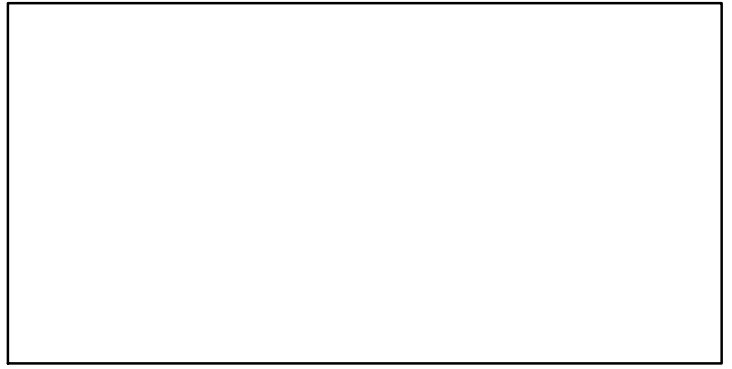
◆ Start Year ◆ End Year * No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

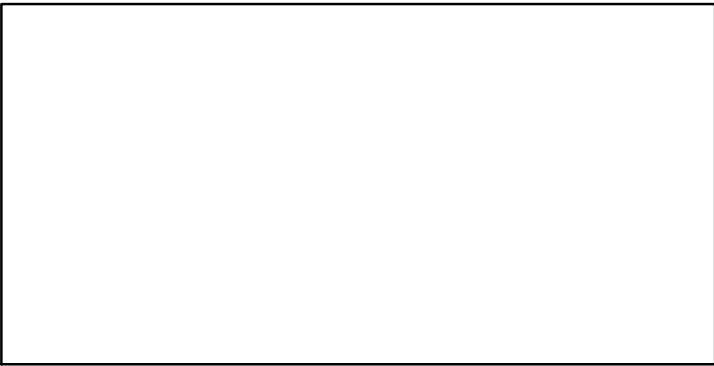
TB*



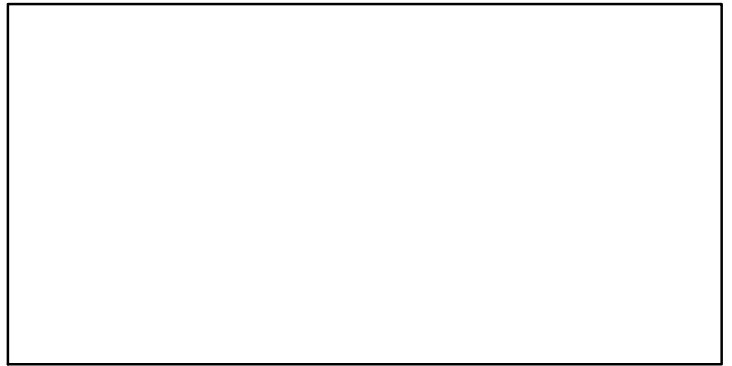
SSB*



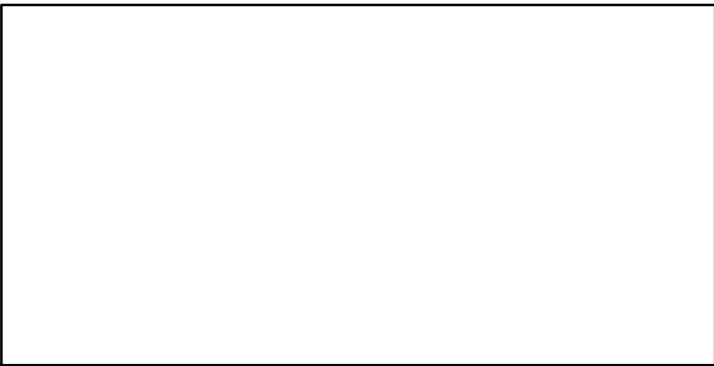
TN *



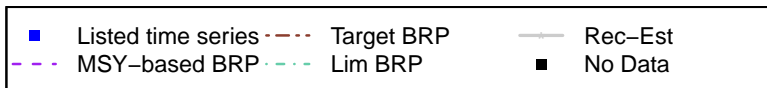
F*



ER*



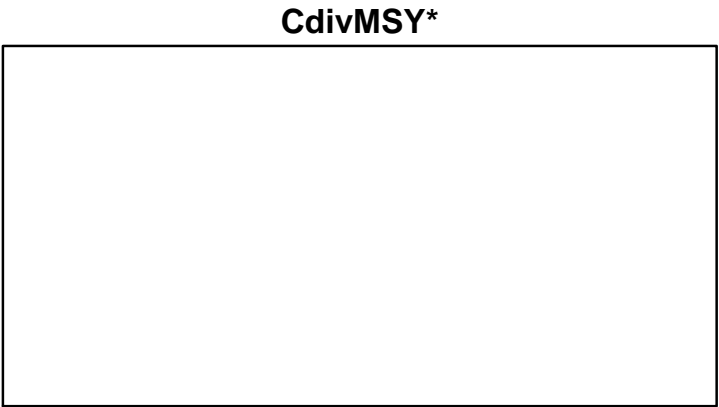
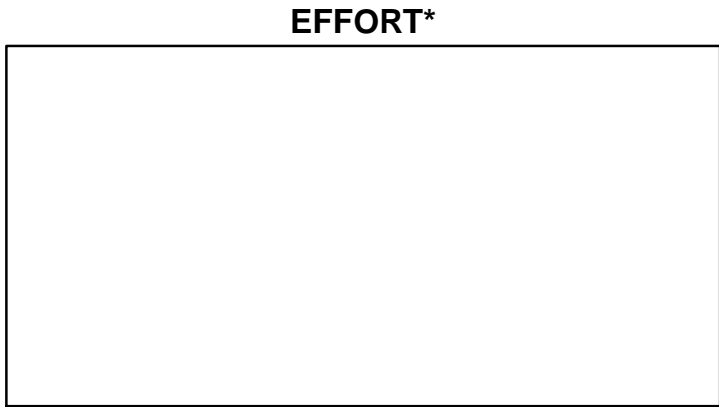
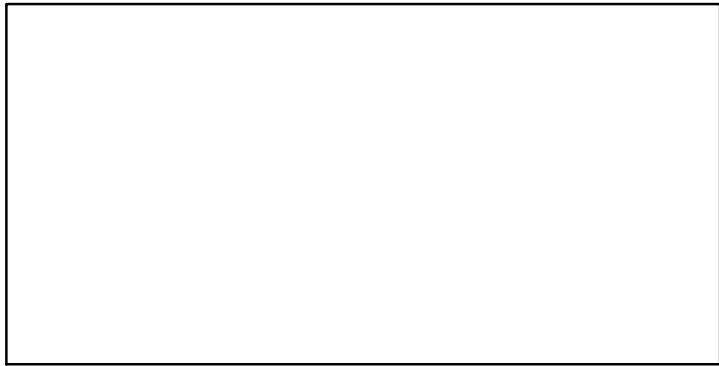
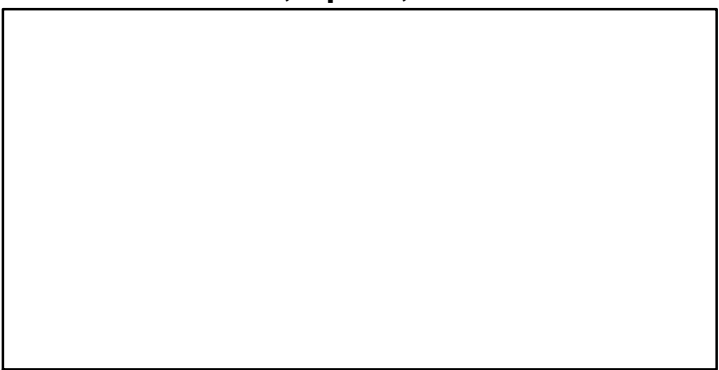
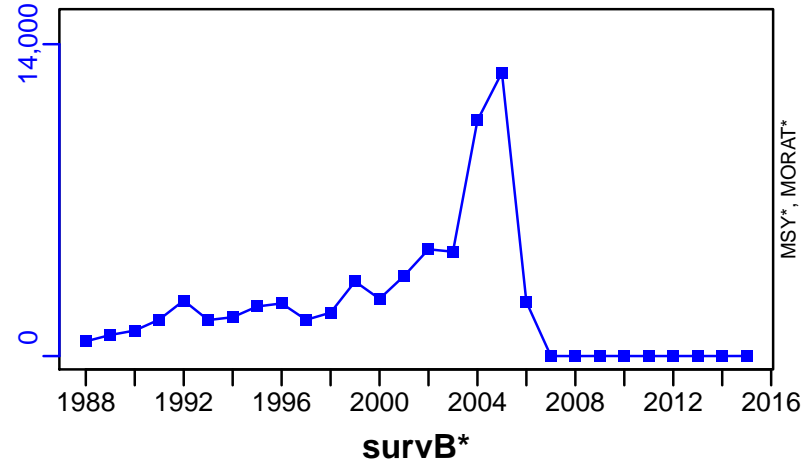
Recruits*



Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

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

TAC*, Cpair*, Cadv*



European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

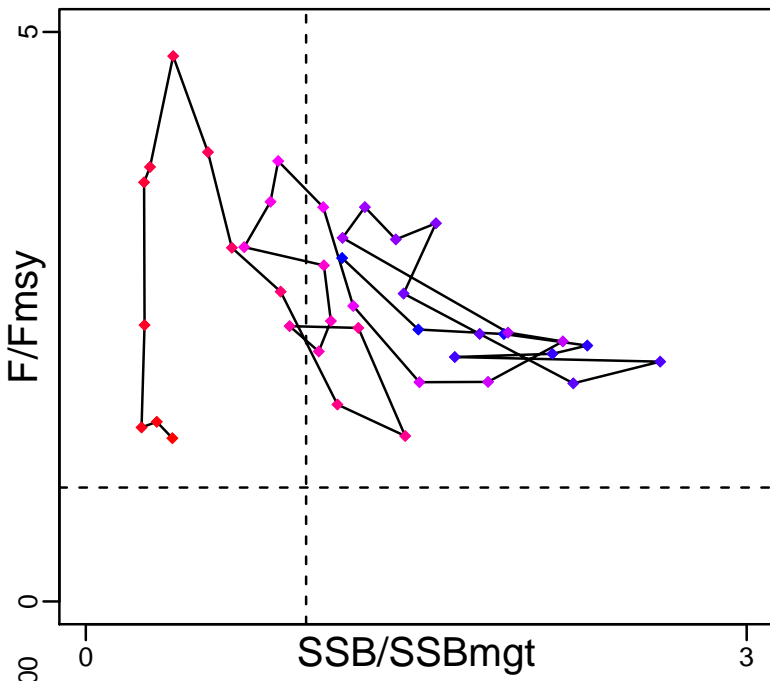
Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDPVIIIc-IXa-1978-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016,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

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

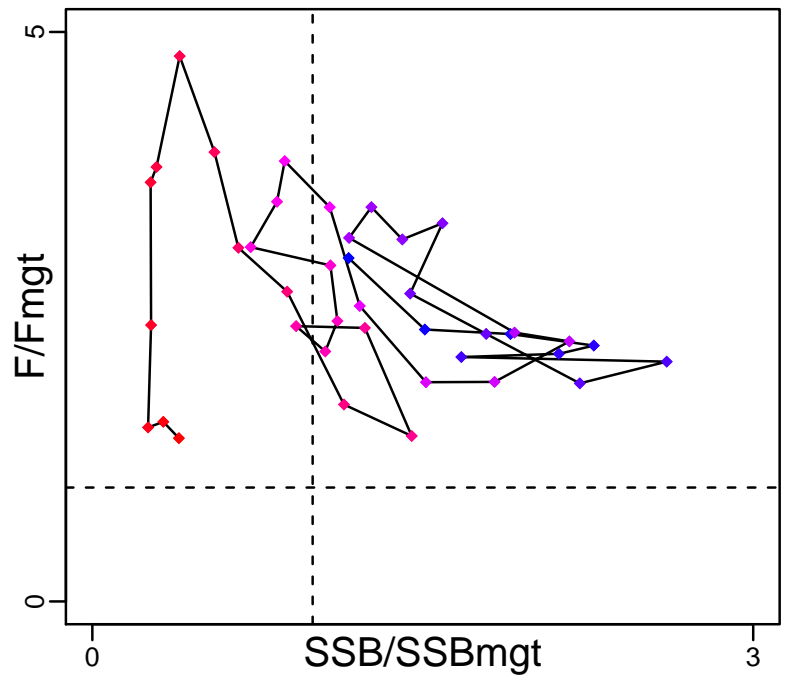
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	147,000	Both	-
SSB	SSB-MT	2018	149,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4.19×10^9	-	0
F	F-1/yr	2018	0.172	-	2 to 5
ER	ER-calc-ratio	2017	0.166	-	-
TC	TC-MT	2018	21,900		
TL	TL-MT	2018	21,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.433		
ER/ERmsy	-	-	-		
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.541		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.333		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.433		
ER/ERmgt	-	-	-		

European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

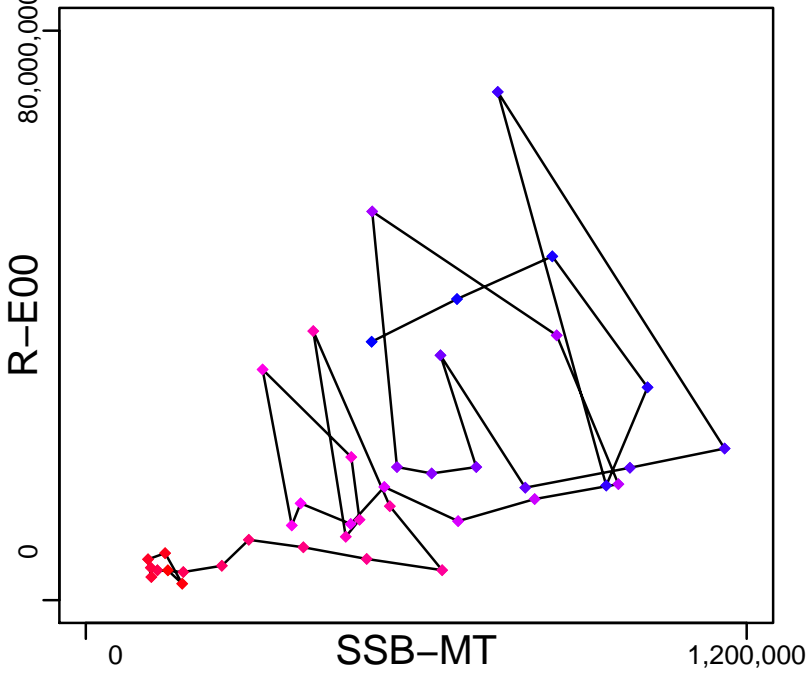
Kobe MSYpref (1978–2018–ICESIMP2018)



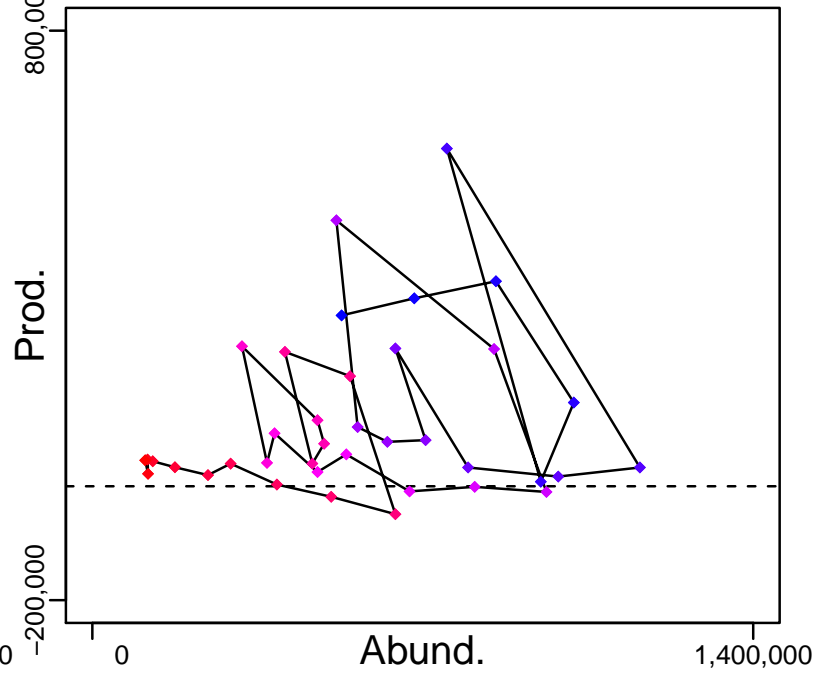
Kobe MGTpref (1978–2018–ICESIMP2018)



Spawner Recruit (1978–2018–ICESIMP2018)



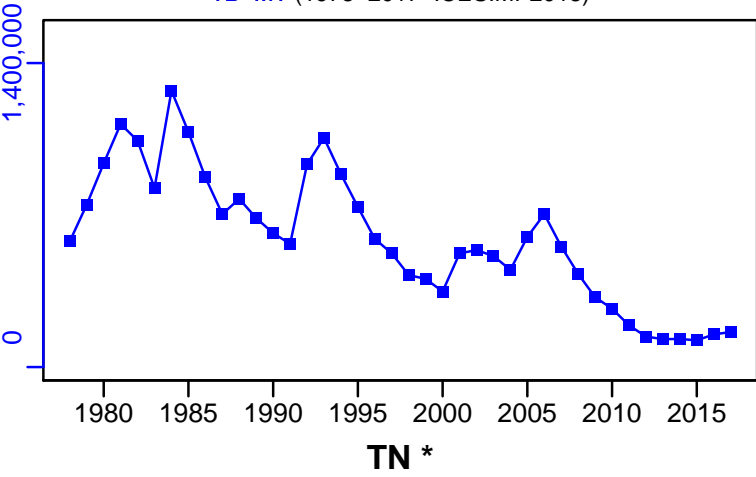
Production (1978–2017–ICESIMP2018)



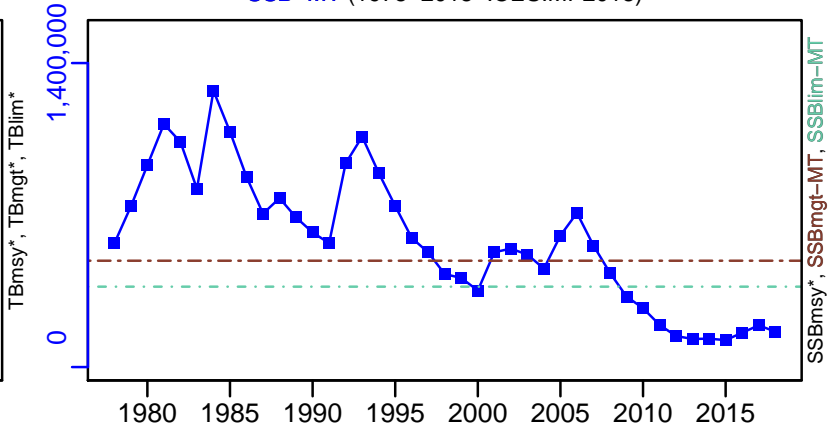
◆ Start Year ◆ End Year * No Data

European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

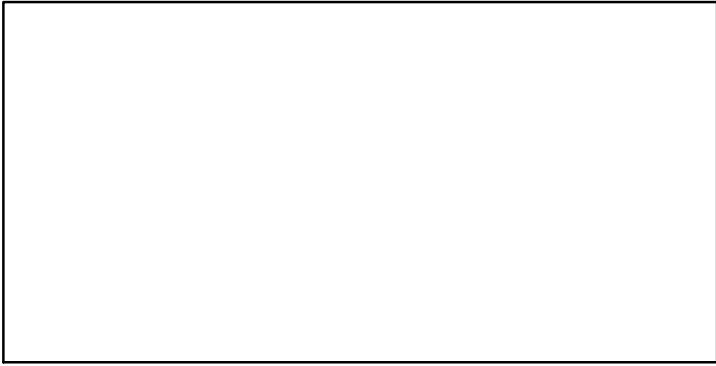
TB-MT (1978-2017-ICESIMP2018)



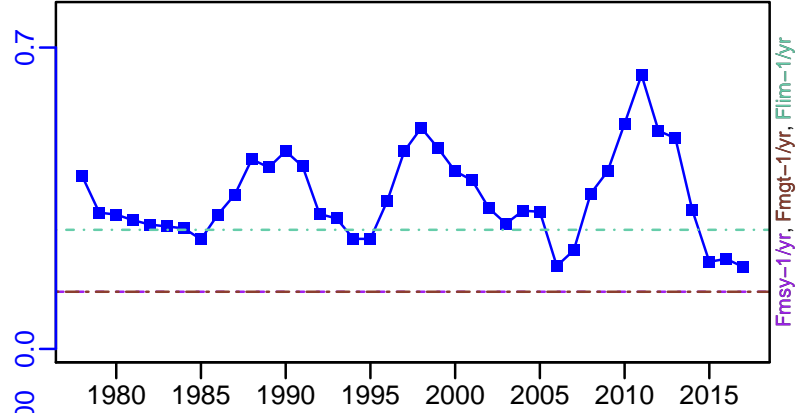
SSB-MT (1978-2018-ICESIMP2018)



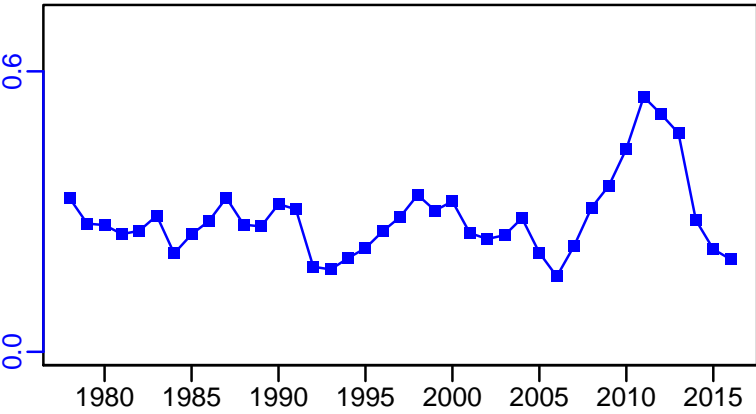
TN *



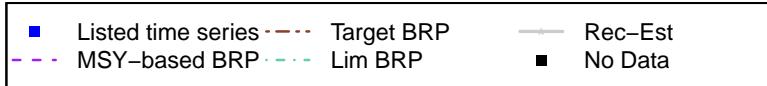
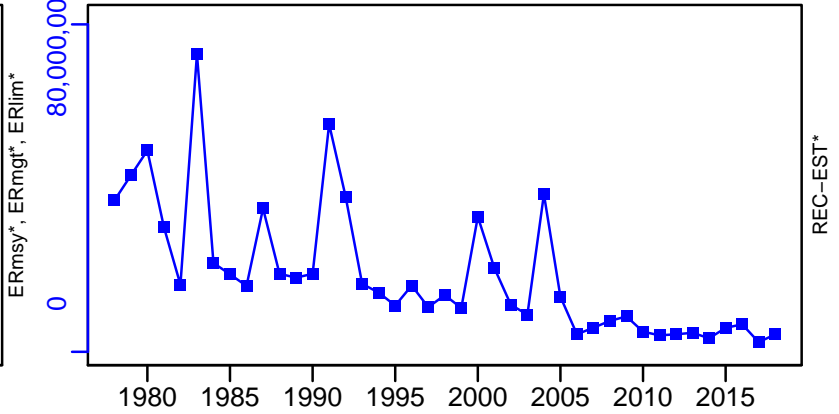
F-1/yr (1978-2018-ICESIMP2018)



ER-calc-ratio (1978-2017-ICESIMP2018)

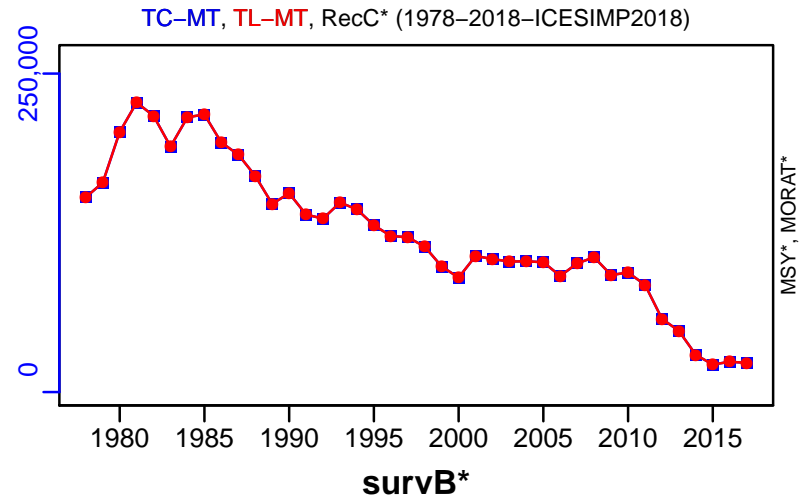


R-E00 (1978-2018-ICESIMP2018)

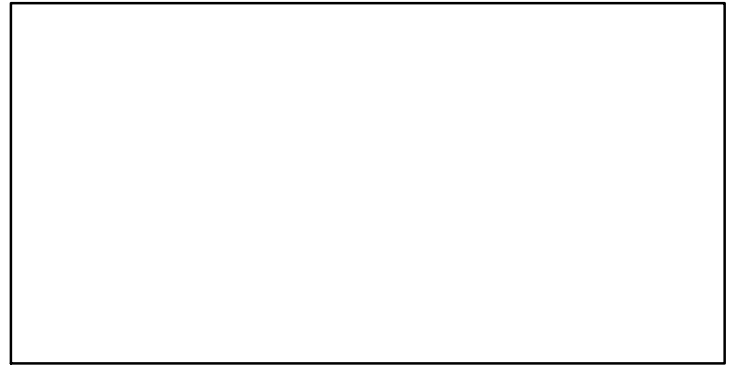


European pilchard ICES VIIIc–IXa [SARDPVIIIc–IXa]

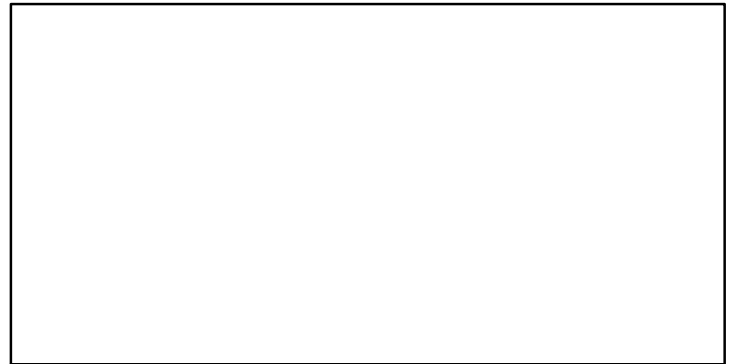
TC–MT, TL–MT, RecC* (1978–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Sardine ICES VII [SARDVII]

Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDVII-1970-2016-ICESIMP2018
Area	ICES VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	19,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

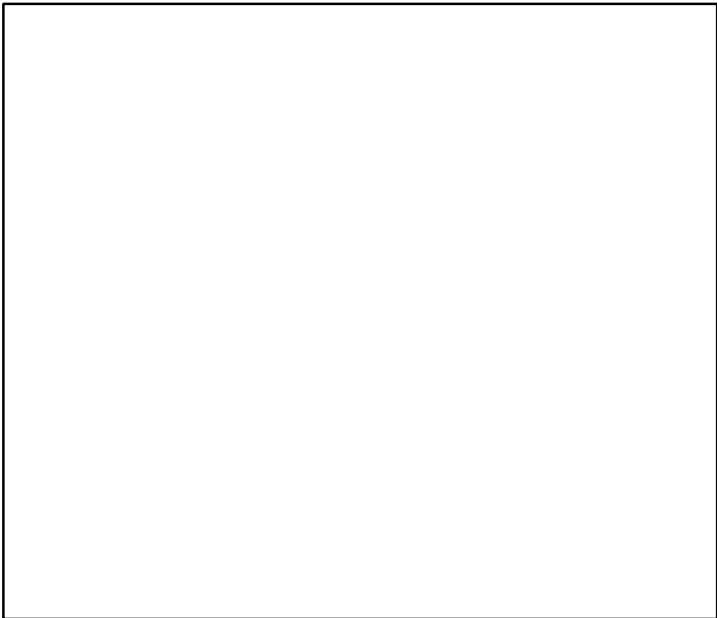
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

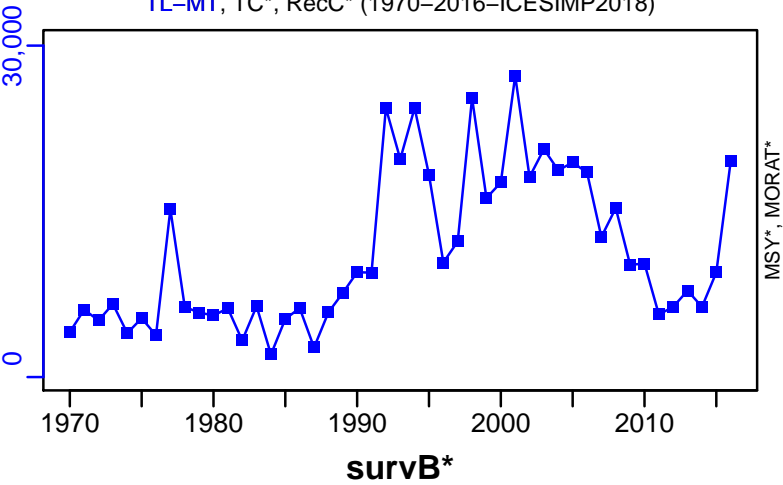


Recruits*

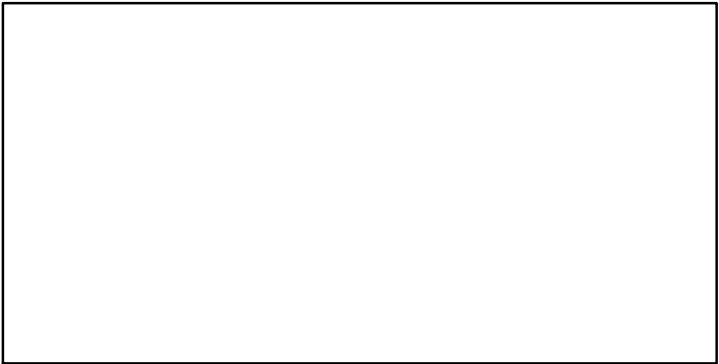


Sardine ICES VII [SARDVII]

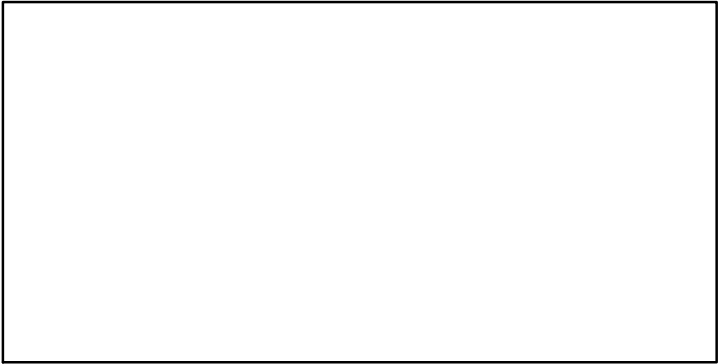
TL-MT, TC*, RecC* (1970–2016–ICESIMP2018)



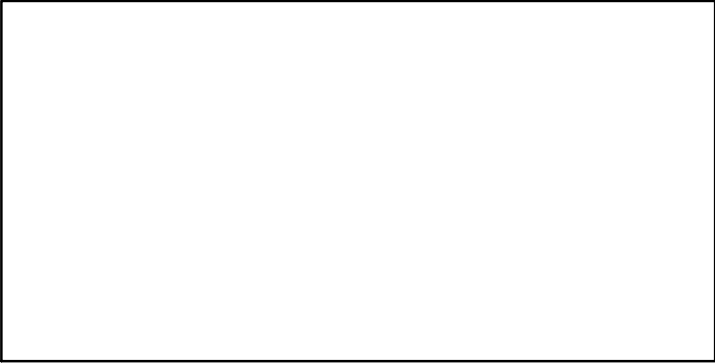
TAC*, Cpair*, Cadv*



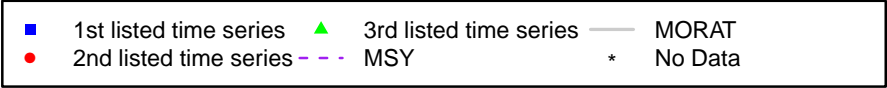
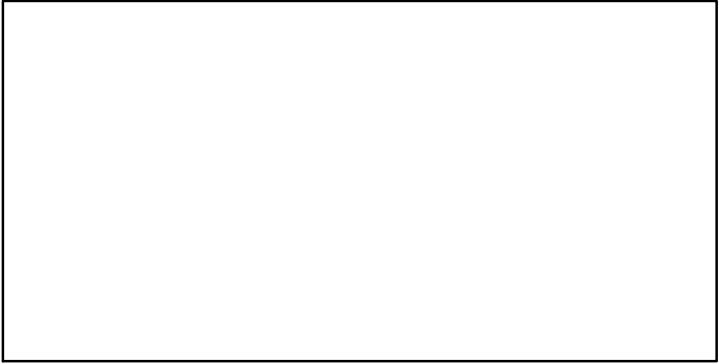
CPUE*



EFFORT*



CdivMSY*



Sardine ICES VIIIabd [SARDVIIIabd]

Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDVIIIabd-2002-2018-ICESIMP2018
Area	ICES VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	88,000
Fmgt	Fmgt-relative	2018	0.302
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	63,328
Flim	Flim-relative	2018	0.478
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	1	Both	-
TN	-	-	-	-	-
R	R-relative	2018	0.911	-	0
F	F-relative	2018	1.65	-	2 to 5
ER	-	-	-	-	-
TC	TC-MT	2018	30,300		
TL	TL-MT	2018	30,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



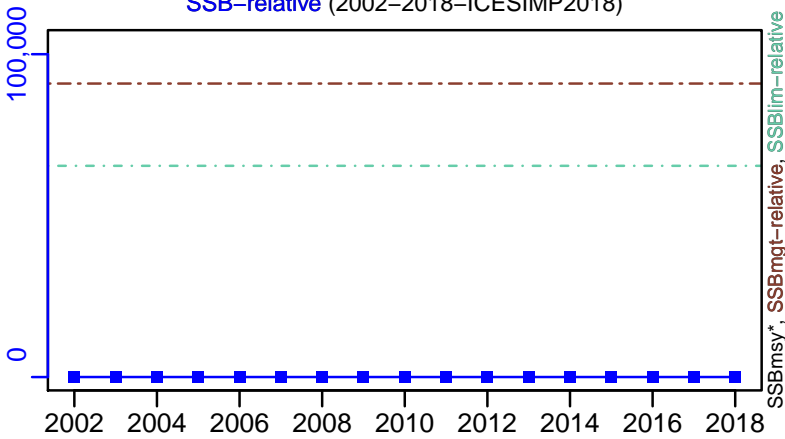
595

Sardine ICES Villabd [SARDVillabd]

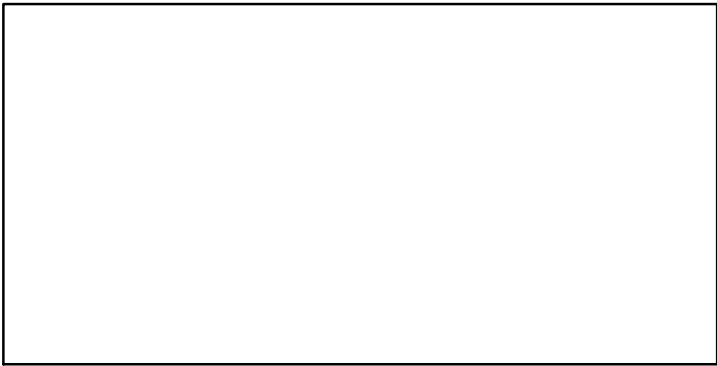
TB*



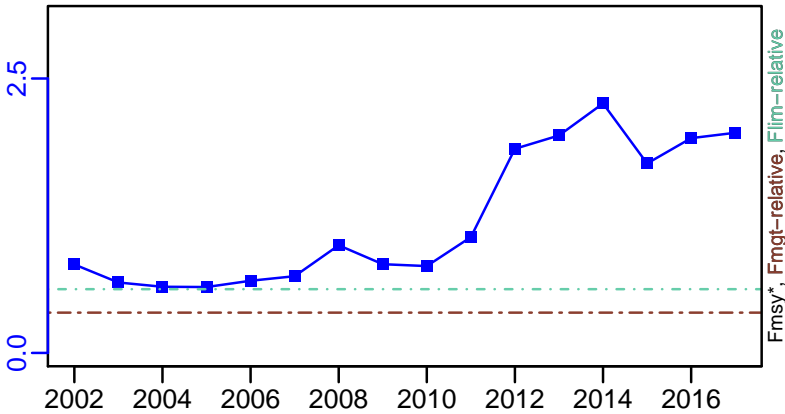
SSB-relative (2002–2018–ICESIMP2018)



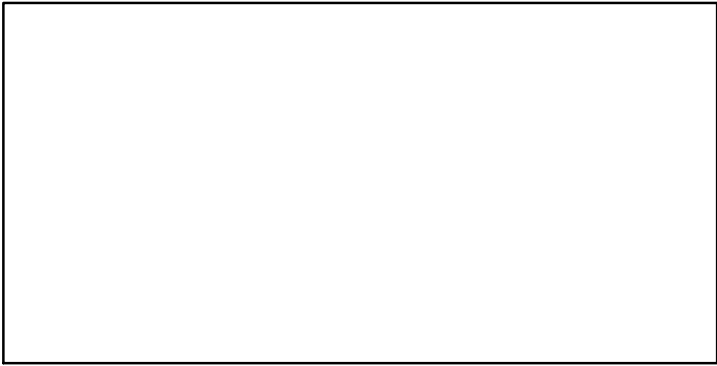
TN *



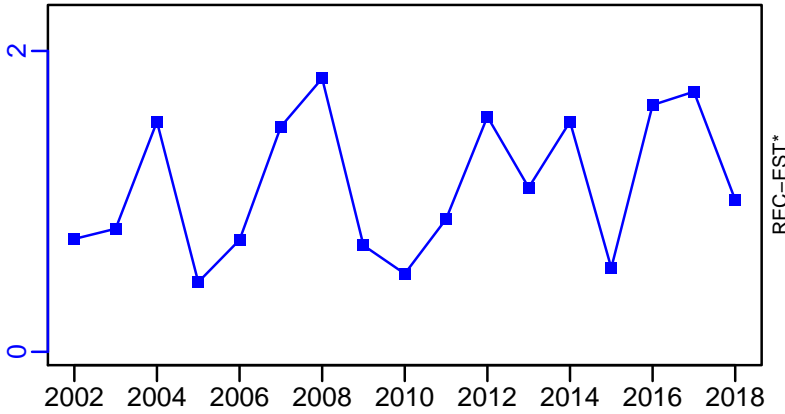
F-relative (2002–2018–ICESIMP2018)



ER*

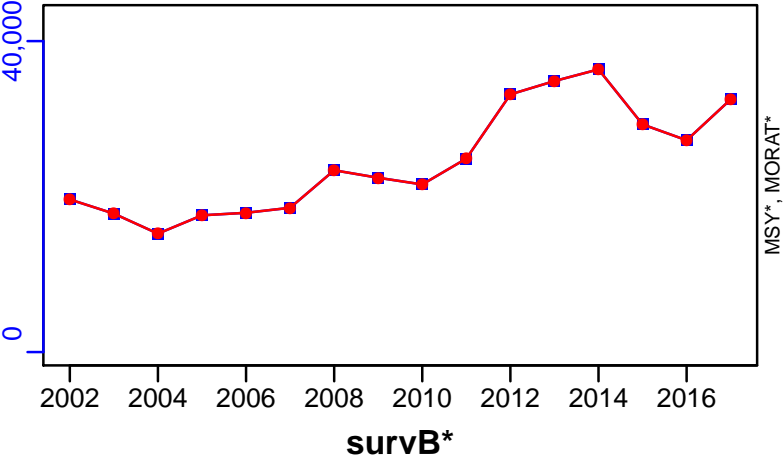


R-relative (2002–2018–ICESIMP2018)



Sardine ICES Villabd [SARDVillabd]

TC-MT, TL-MT, RecC* (2002–2018–ICESIMP2018)



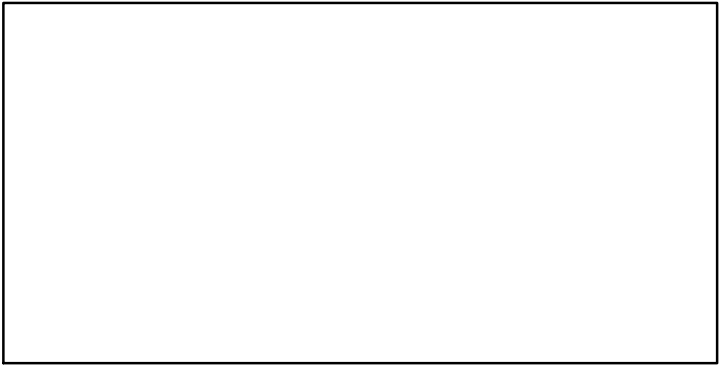
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

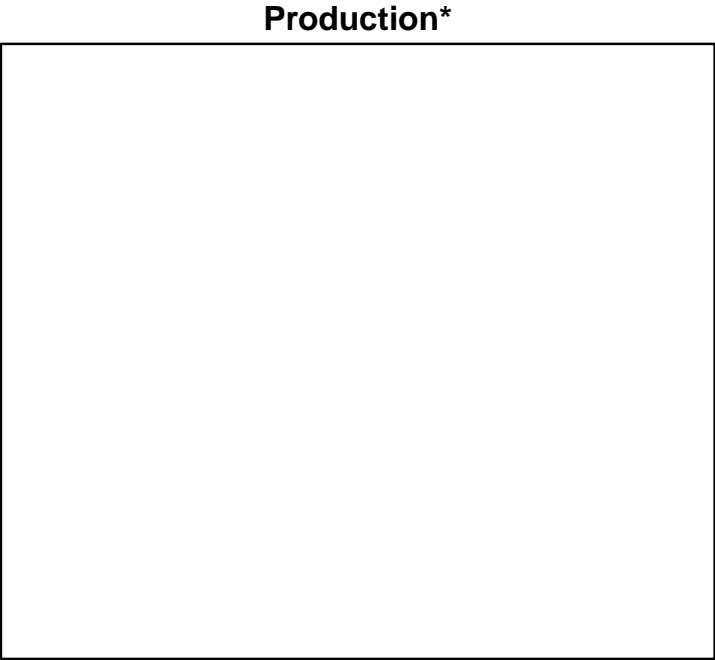
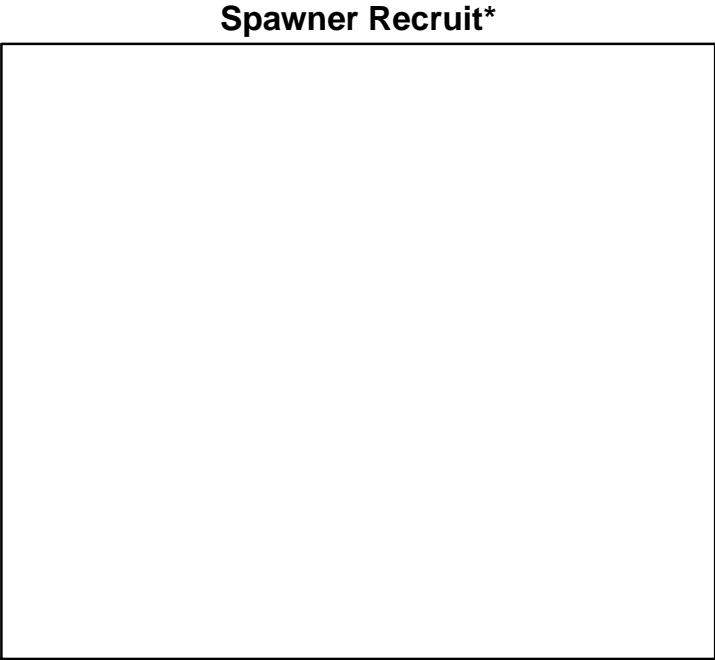
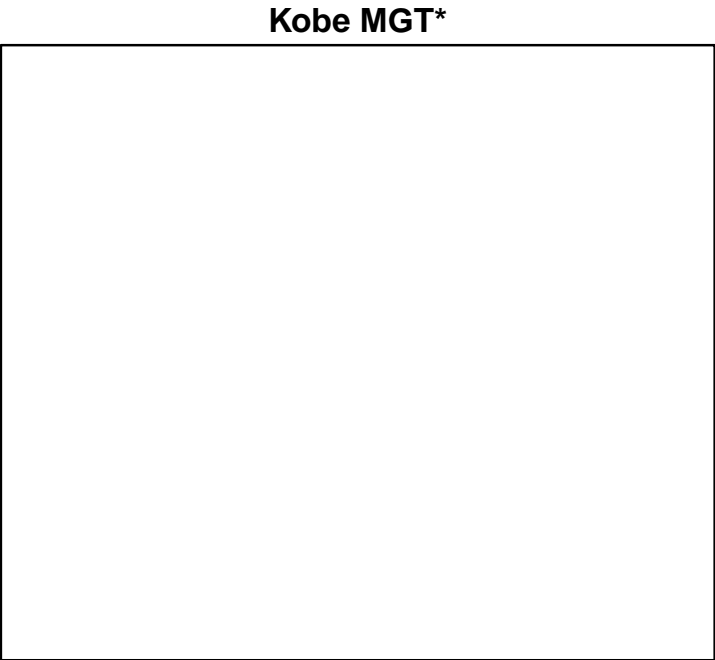
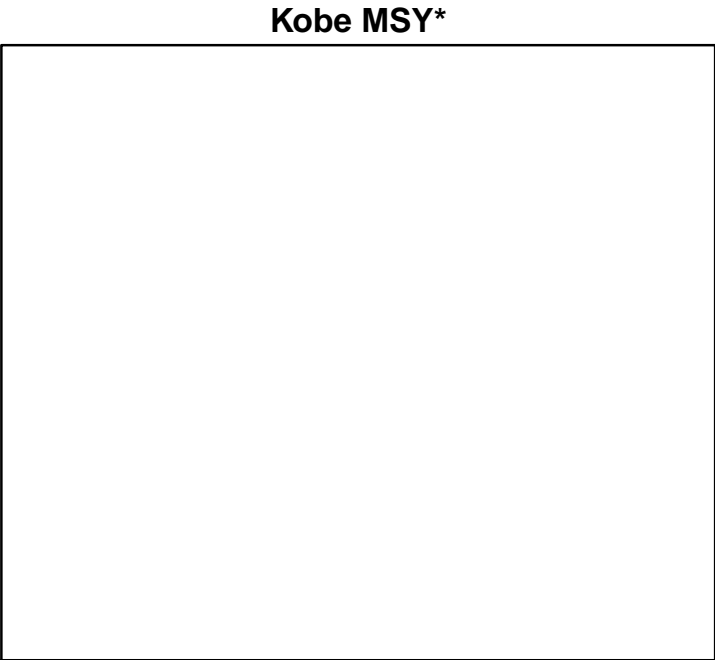


Sandy ray ICES VI-VII [SDRAYVI-VII]

Metadata	
Scientific Name	Leucoraja circularis
Current Assess ID	WGEF-SDRAYVI-VII-2009-2015-ICESIMP2018
Area	ICES VI-VII
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	-	-	-		



◆ Start Year ◆ End Year * No Data

Sandy ray ICES VI–VII [SDRAYVI–VII]

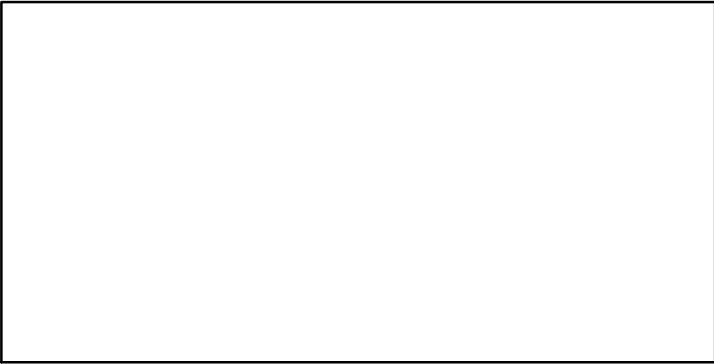
TB*



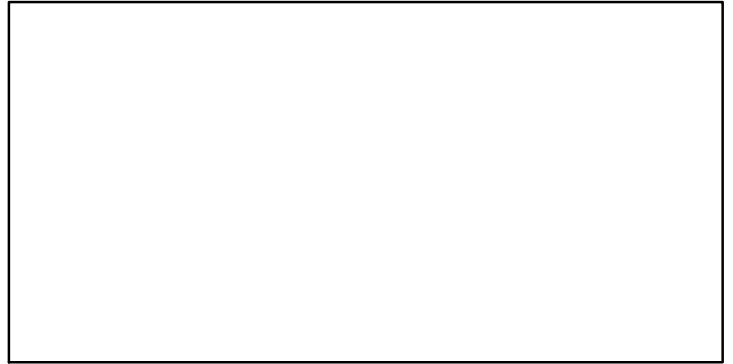
SSB*



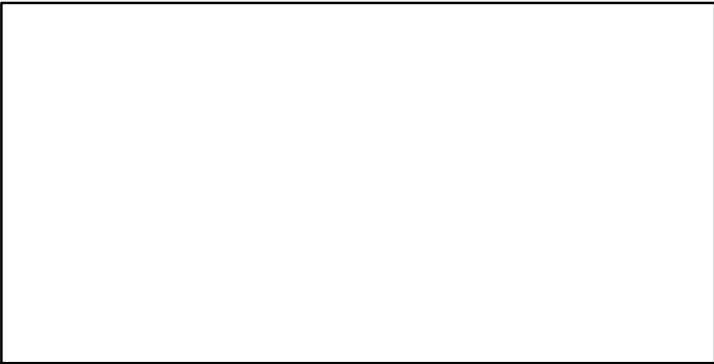
TN *



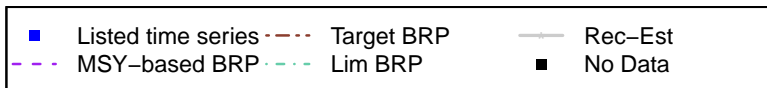
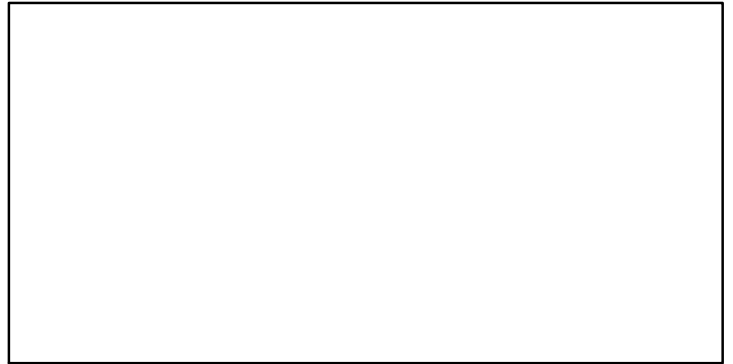
F*



ER*

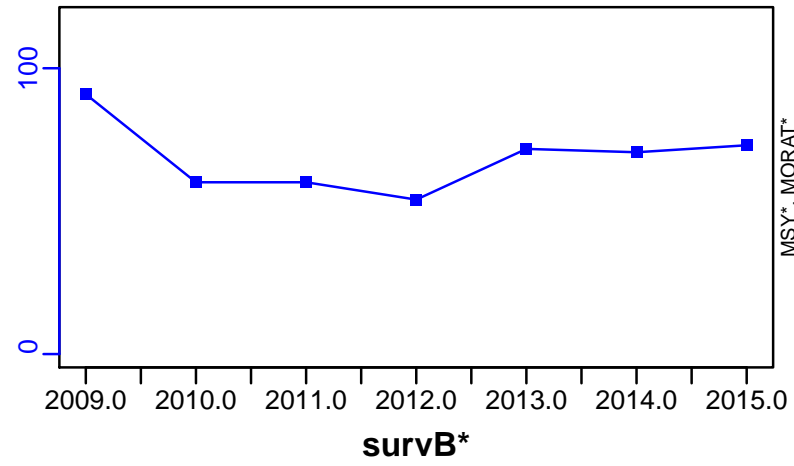


Recruits*

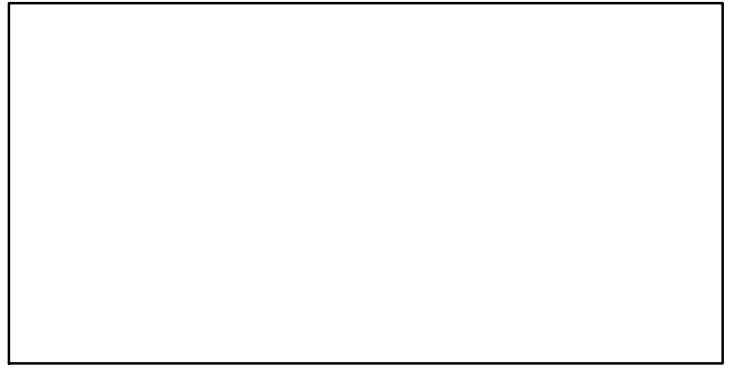


Sandy ray ICES VI–VII [SDRAYVI–VII]

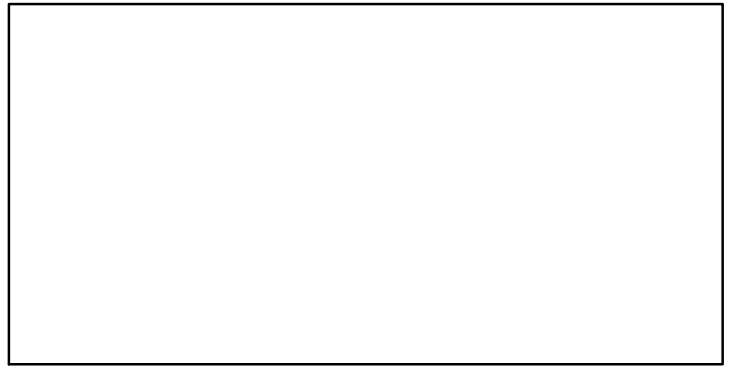
TL–MT, TC*, RecC* (2009–2015–ICESIMP2018)



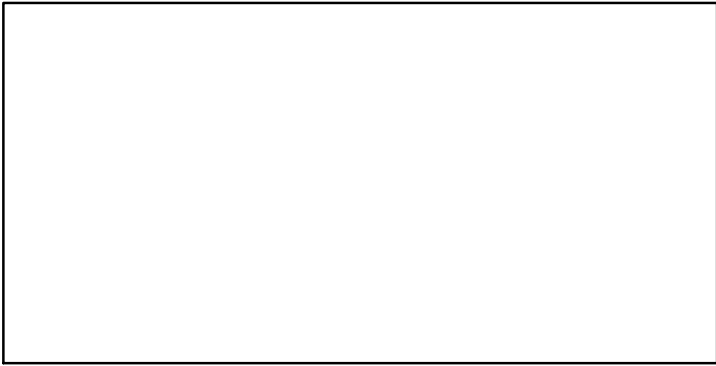
TAC*, Cpair*, Cadv*



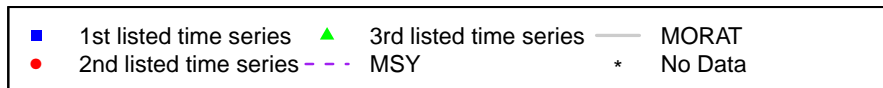
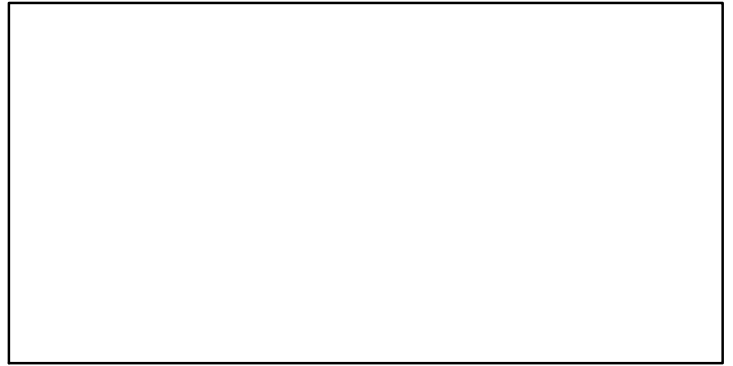
CPUE*



EFFORT*



CdivMSY*



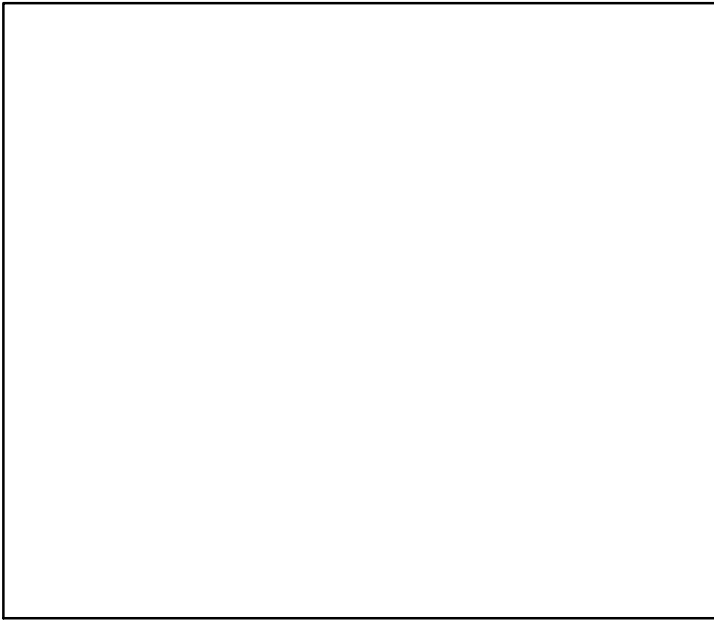
Sand eel SA 1 [SEELNSSA1]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA1-1983-2018-ICESIMP2018
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, 2011

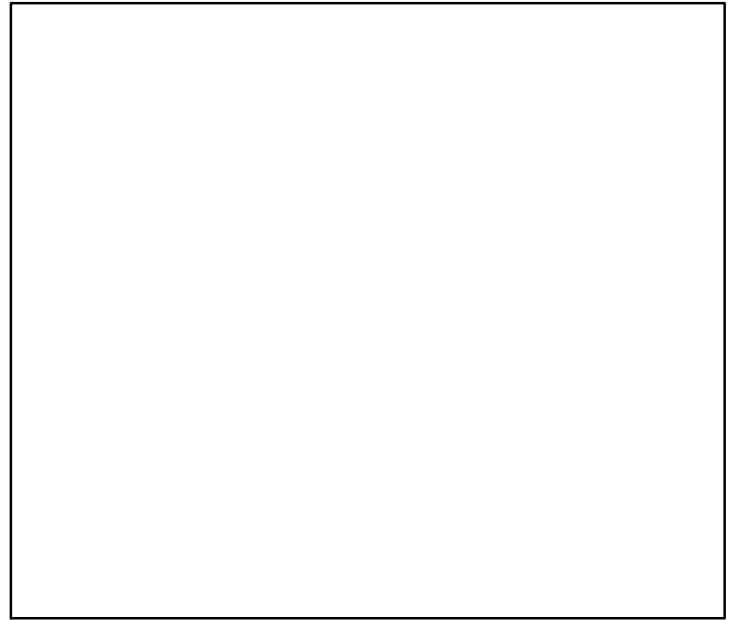
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	145,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	160,000
SSBlim	SSBlim-MT	2018	110,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	351,000	Both	-
SSB	SSB-MT	2018	278,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.15×10^{11}	-	0
F	F-1/yr	2018	0.57	-	1 to 2
ER	ER-calc-ratio	2015	0.217	-	-
TC	TC-MT	2018	236,000		
TL	TL-MT	2018	236,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.915		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

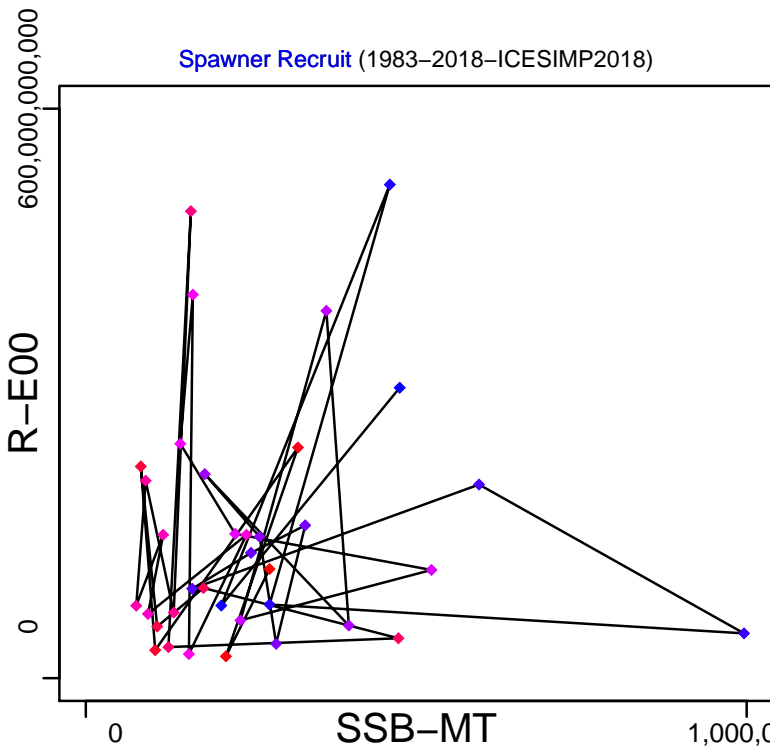
Kobe MSY*



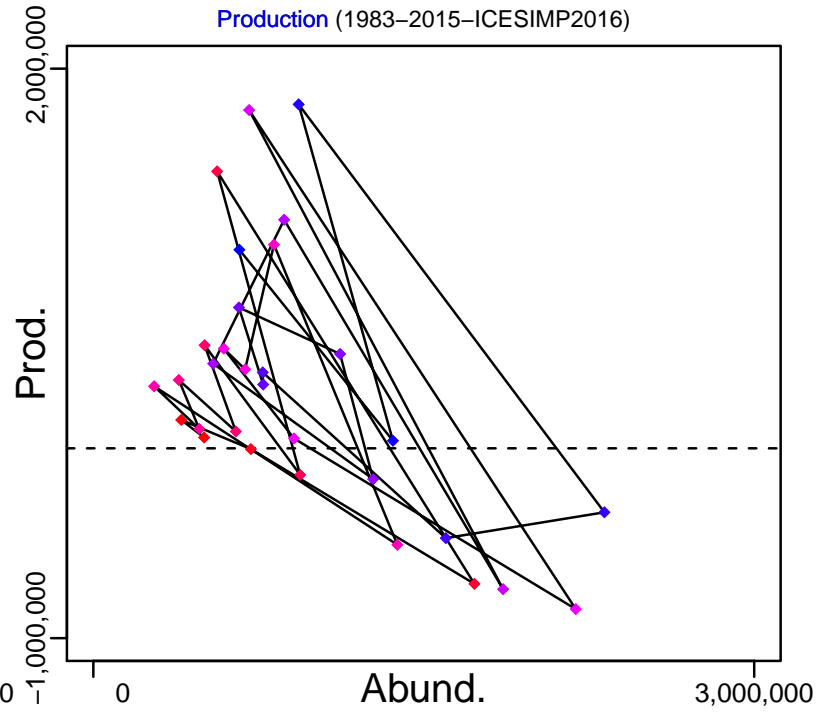
Kobe MGT*



Spawner Recruit (1983–2018–ICESIMP2018)



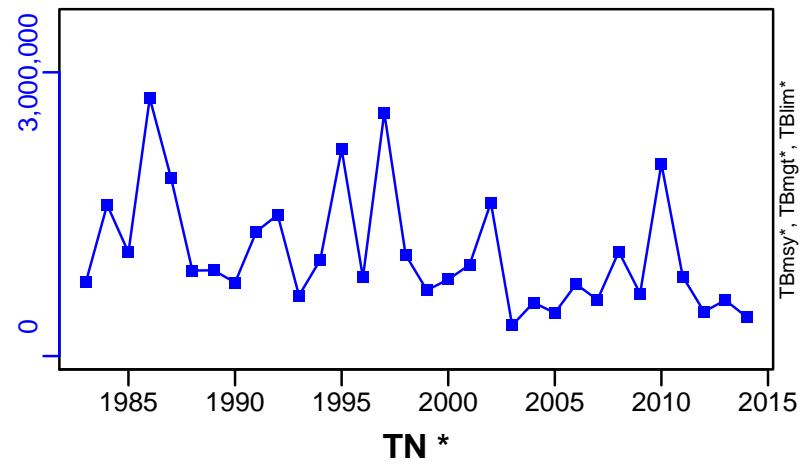
Production (1983–2015–ICESIMP2016)



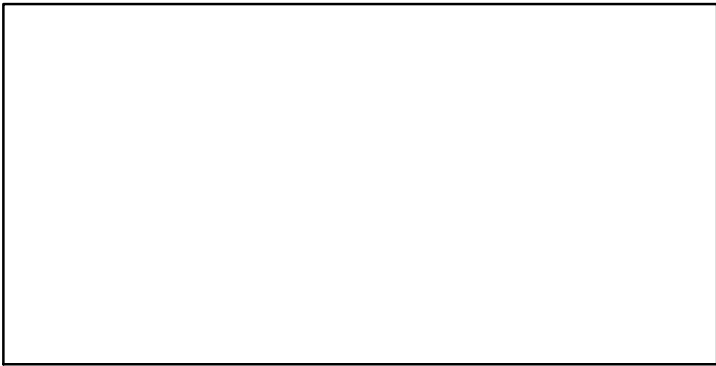
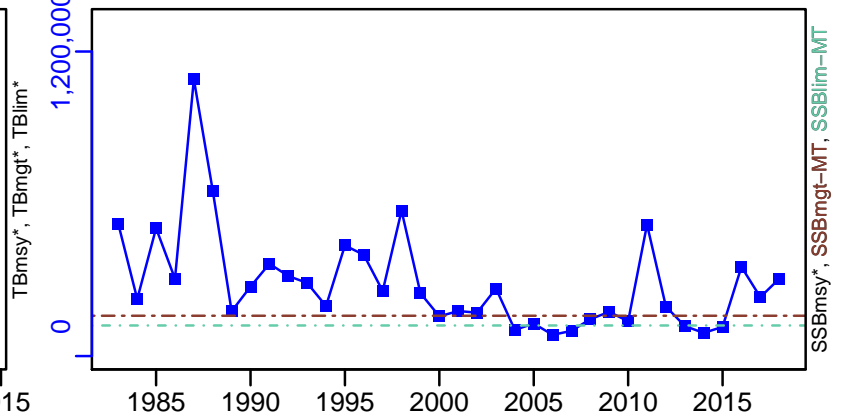
◆ Start Year ◆ End Year * No Data

Sand eel SA 1 [SEELNSSA1]

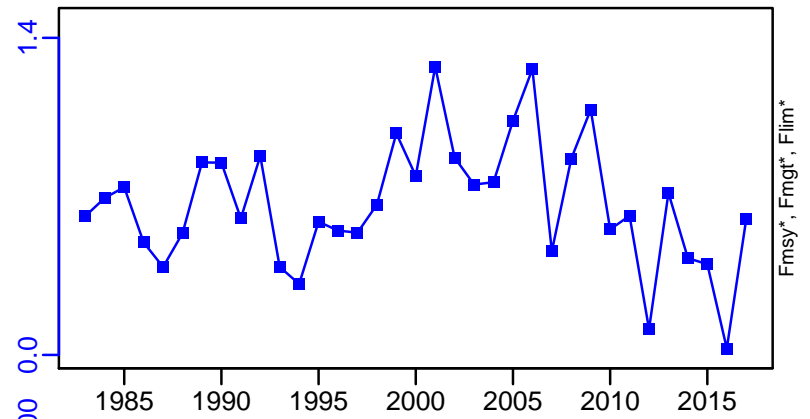
TB-MT (1983–2015–ICESIMP2016)



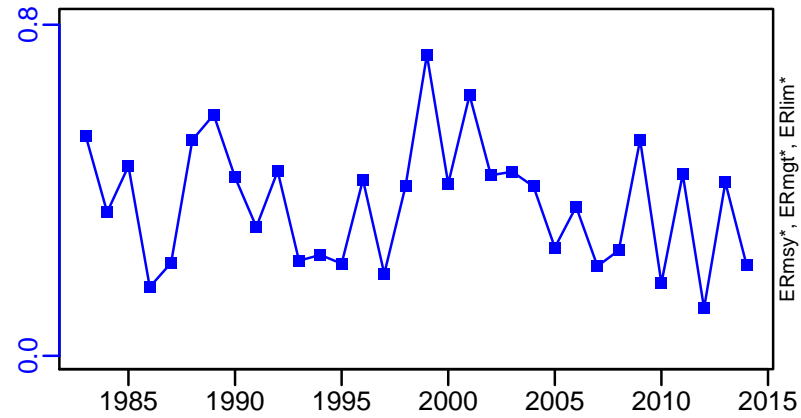
SSB-MT (1983–2018–ICESIMP2018)



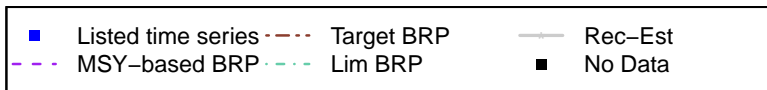
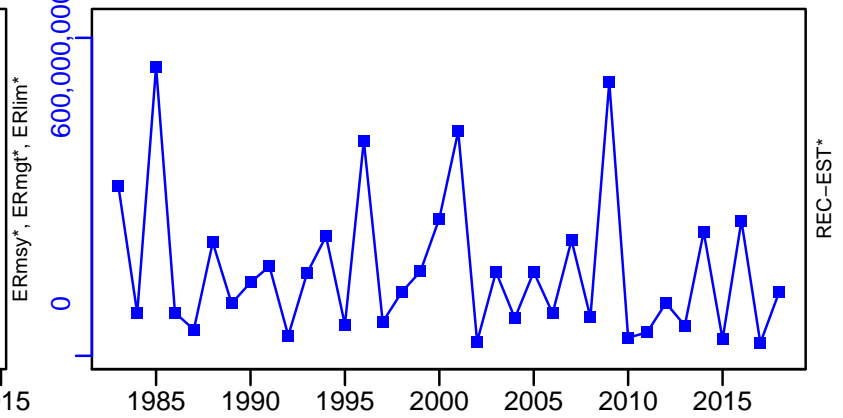
F-1/yr (1983–2018–ICESIMP2018)



ER-calc-ratio (1983–2015–ICESIMP2016)

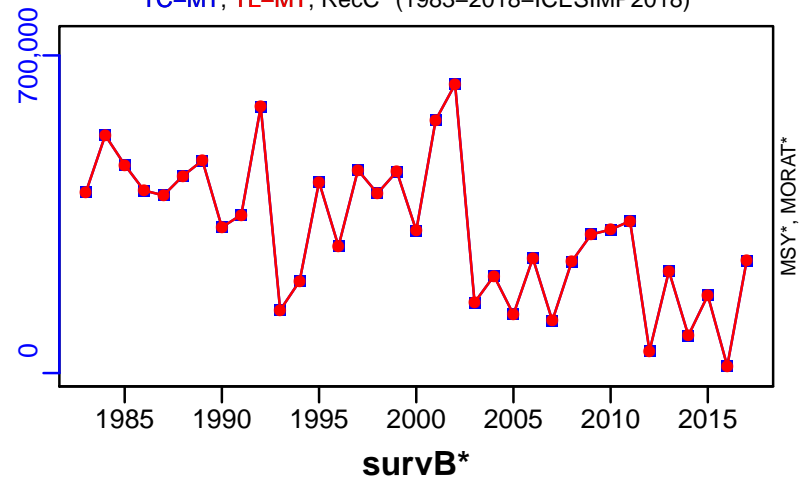


R-E00 (1983–2018–ICESIMP2018)

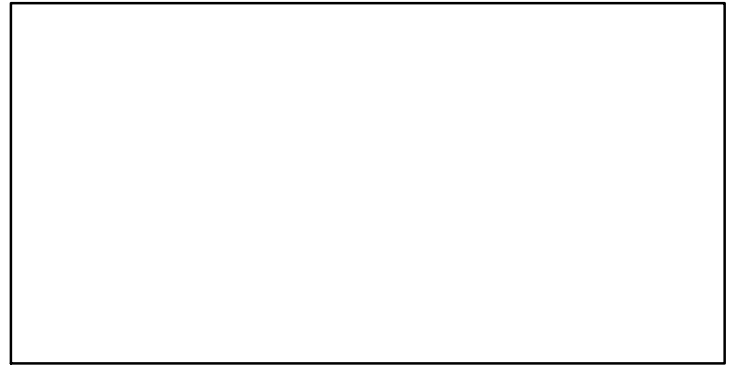


Sand eel SA 1 [SEELNSSA1]

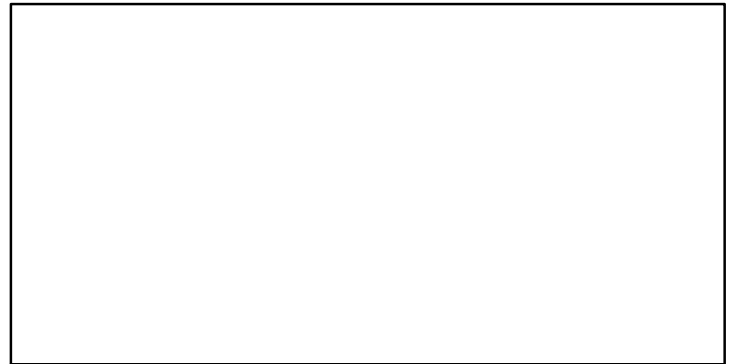
TC-MT, TL-MT, RecC* (1983–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

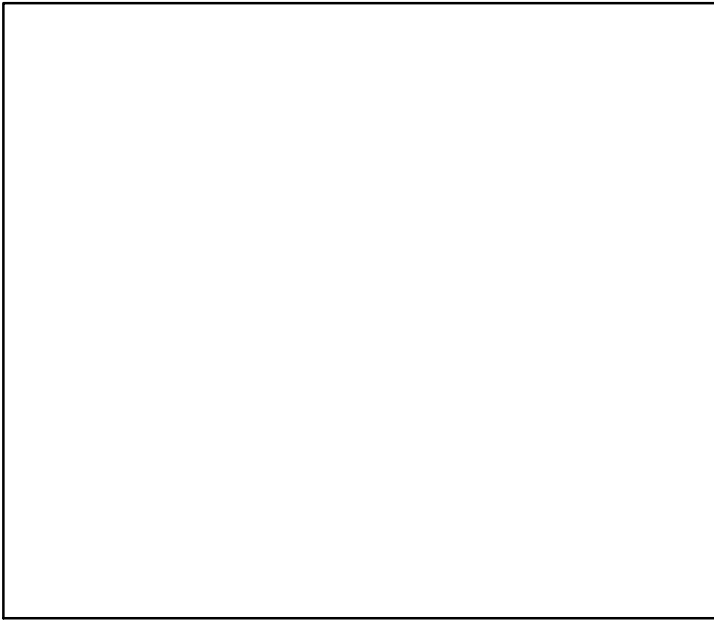
Sand eel SA 2 [SEELNSSA2]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA2-1983-2018-ICESIMP2018
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, 2011

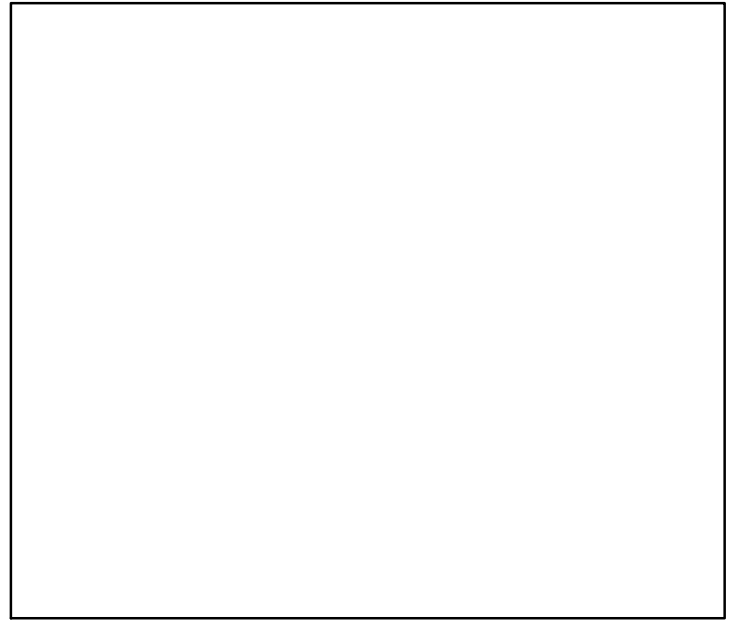
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	84,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2018	56,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	174,000	Both	-
SSB	SSB-MT	2018	107,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	2.76×10^{10}	-	0
F	F-1/yr	2018	0.907	-	1 to 2
ER	ER-calc-ratio	2015	0.05	-	-
TC	TC-MT	2018	144,000		
TL	TL-MT	2018	144,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.278		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

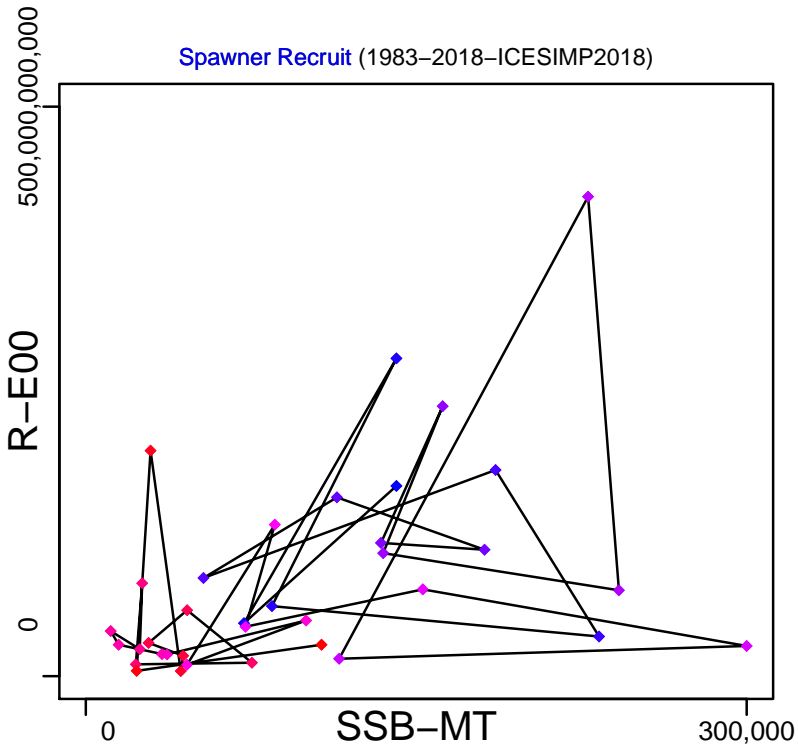
Kobe MSY*



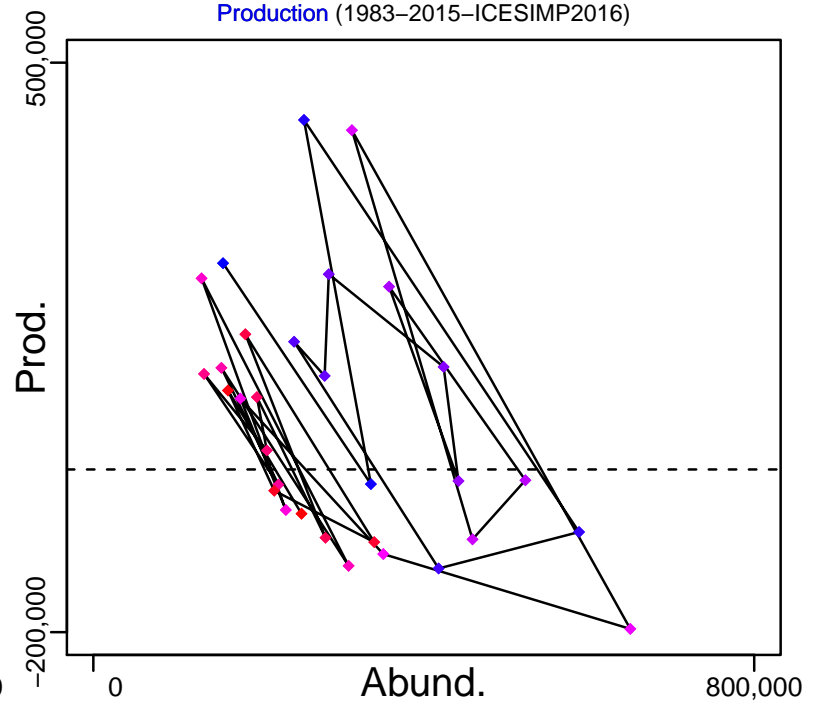
Kobe MGT*



Spawner Recruit (1983–2018–ICESIMP2018)



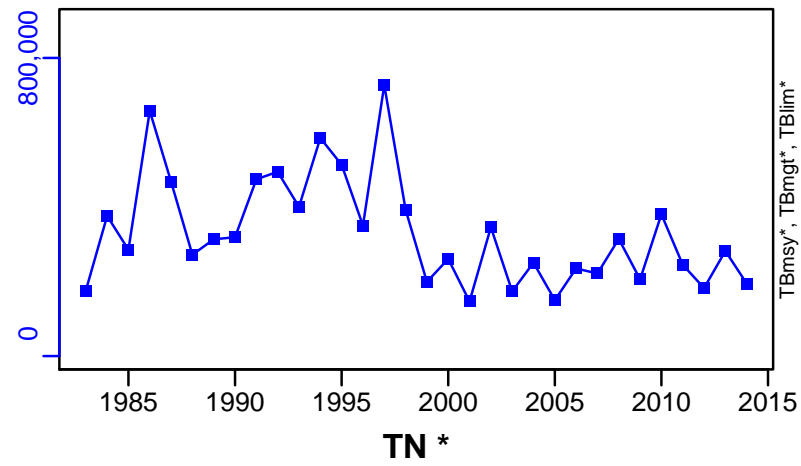
Production (1983–2015–ICESIMP2016)



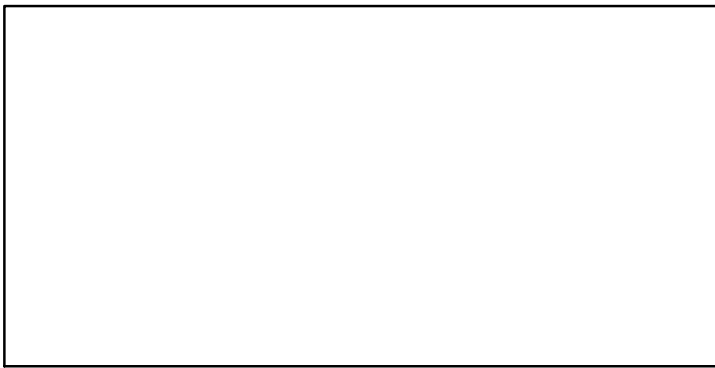
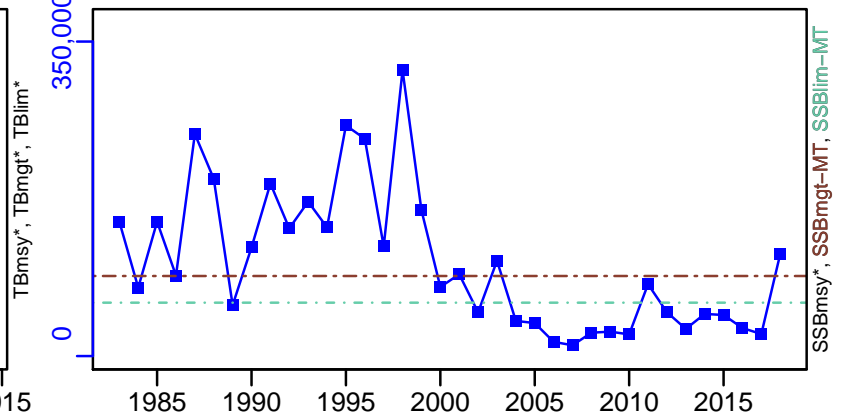
◆ Start Year ◆ End Year * No Data

Sand eel SA 2 [SEELNSSA2]

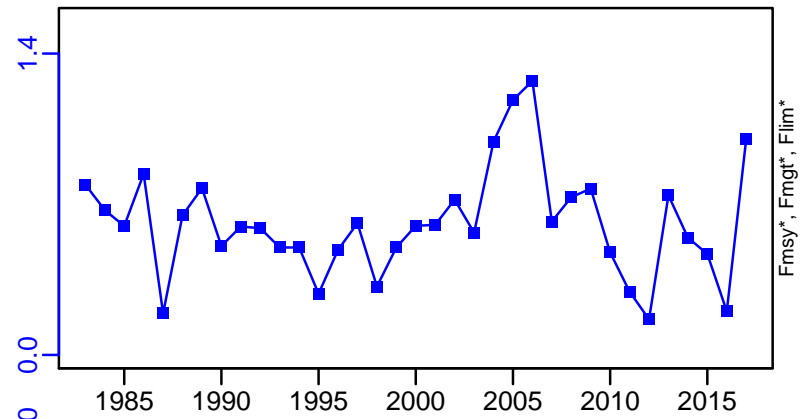
TB-MT (1983–2015–ICESIMP2016)



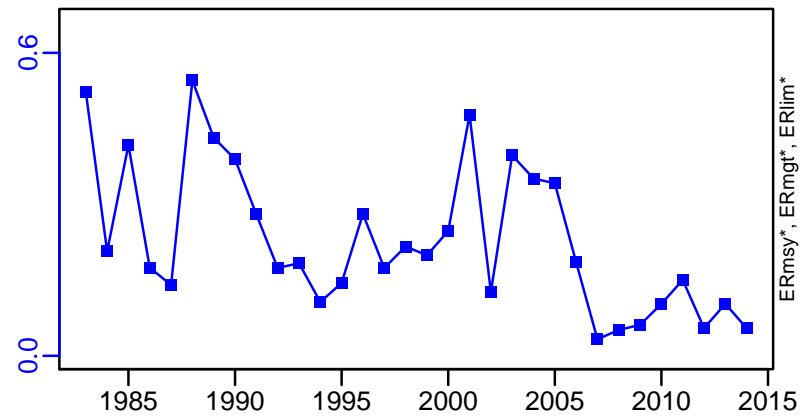
SSB-MT (1983–2018–ICESIMP2018)



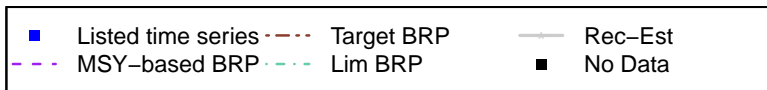
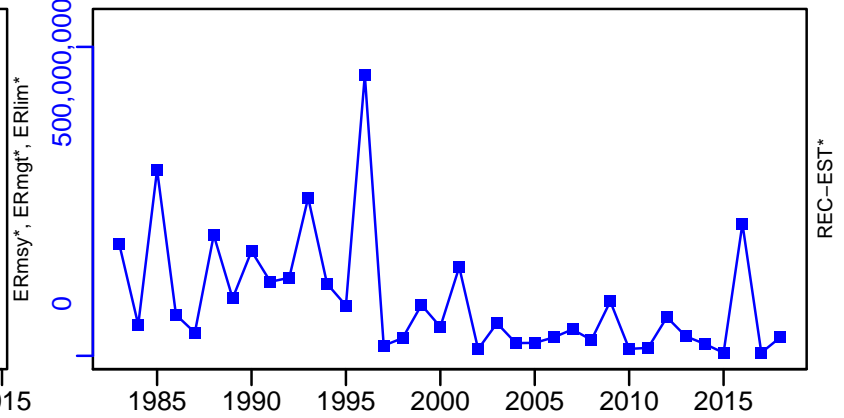
F-1/yr (1983–2018–ICESIMP2018)



ER-calc-ratio (1983–2015–ICESIMP2016)

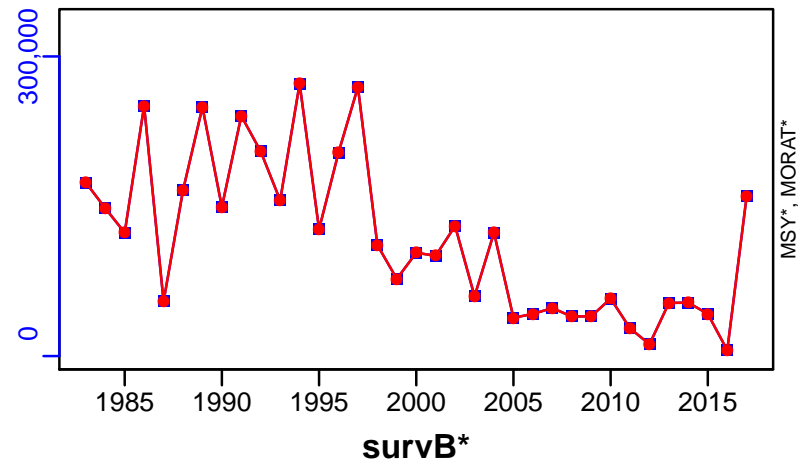


R-E00 (1983–2018–ICESIMP2018)

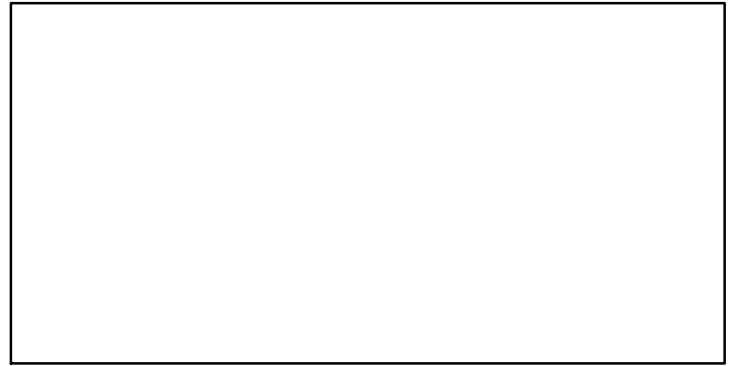


Sand eel SA 2 [SEELNSSA2]

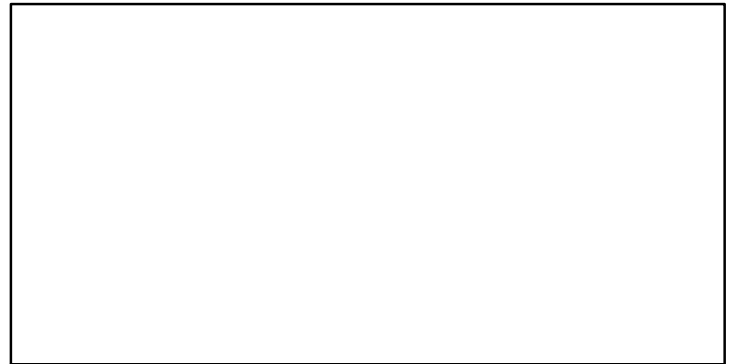
TC-MT, TL-MT, RecC* (1983–2018–ICESIMP2018)



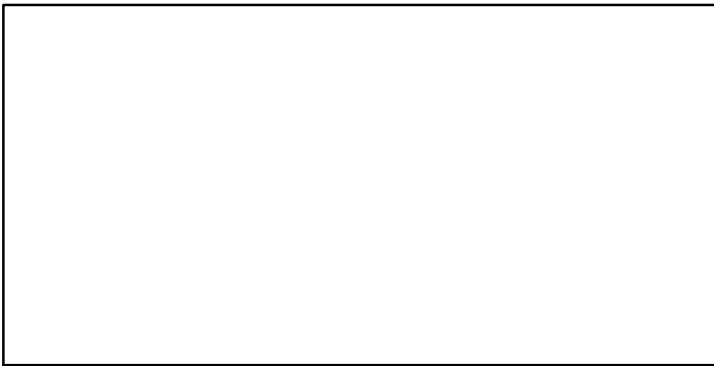
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

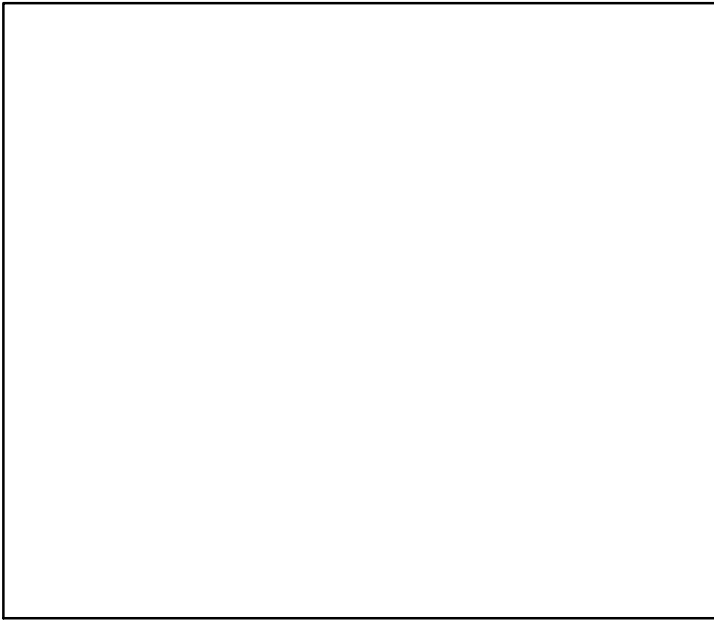
Sand eel SA 3 [SEELNSSA3]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA3-1986-2018-ICESIMP2018
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, 2011

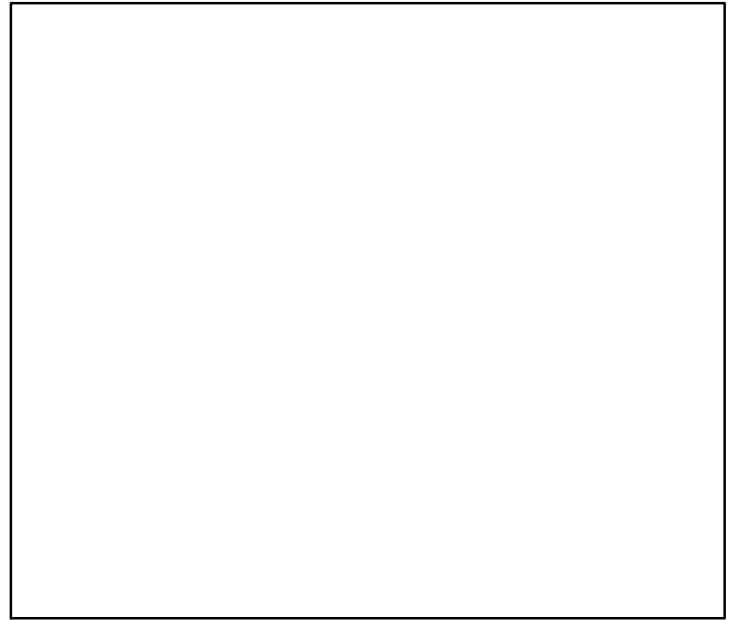
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	129,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2018	80,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	535,000	Both	-
SSB	SSB-MT	2018	340,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.05×10^{11}	-	0
F	F-1/yr	2018	0.346	-	1 to 2
ER	ER-calc-ratio	2015	0.27	-	-
TC	TC-MT	2018	121,000		
TL	TL-MT	2018	121,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.634		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

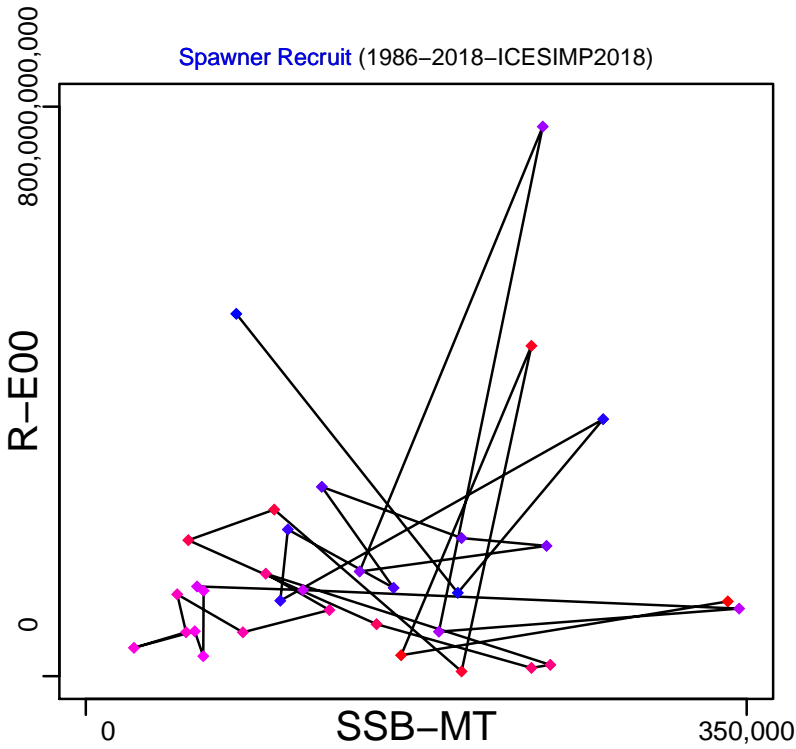
Kobe MSY*



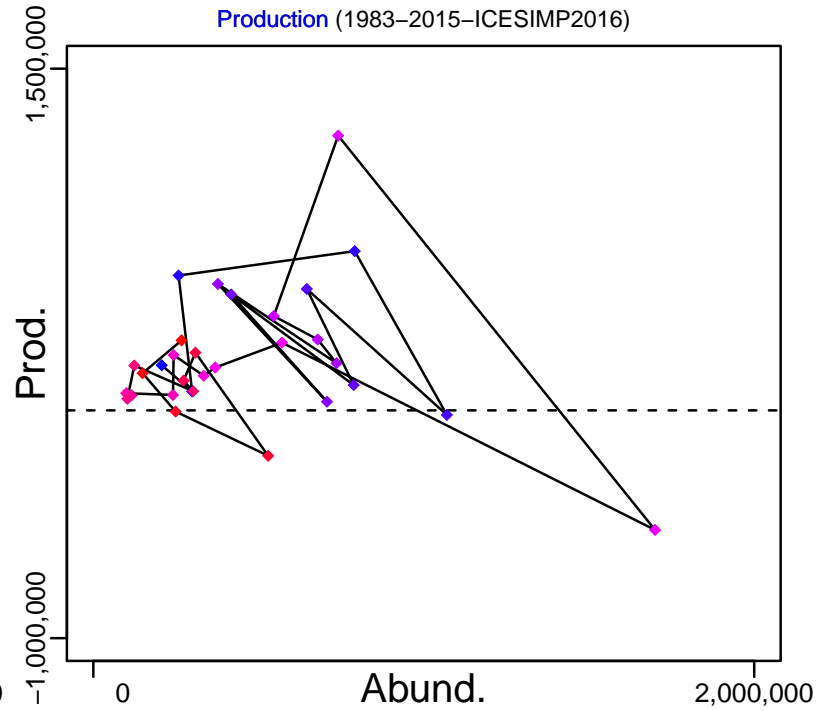
Kobe MGT*



Spawner Recruit (1986–2018–ICESIMP2018)

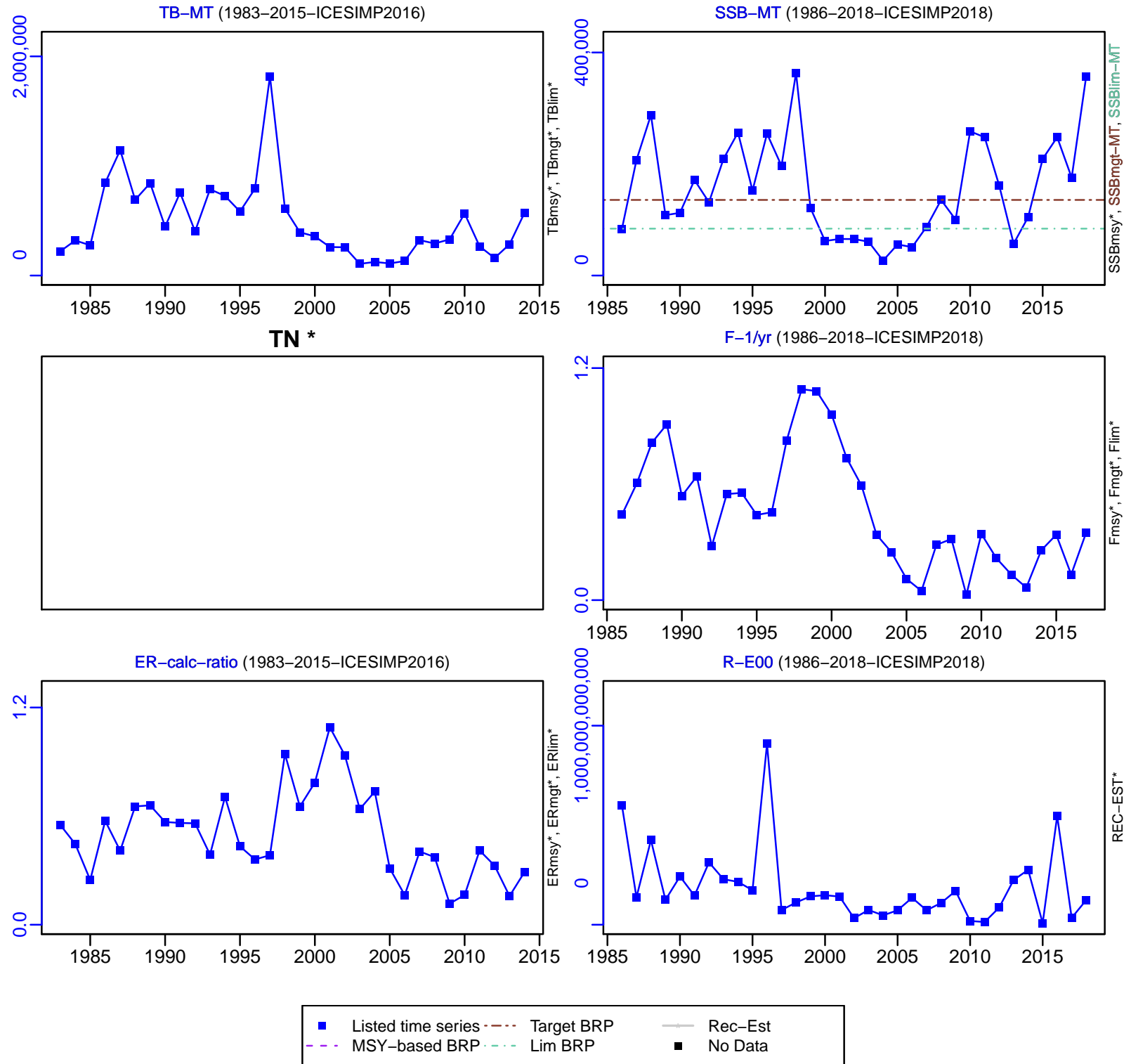


Production (1983–2015–ICESIMP2016)



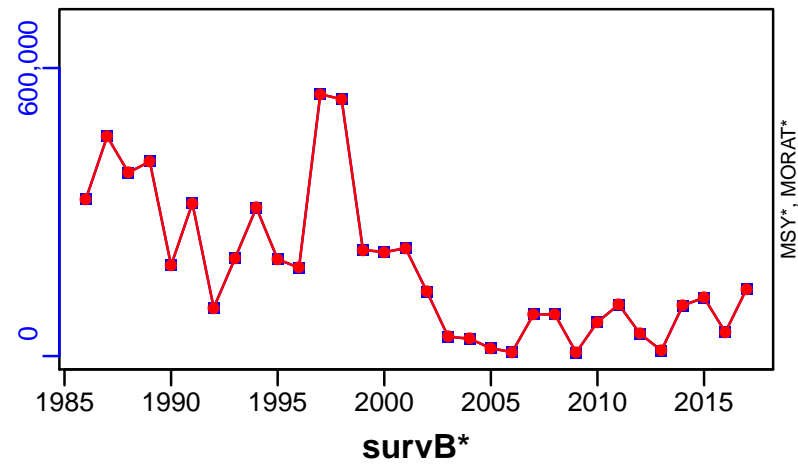
◆ Start Year ◆ End Year * No Data

Sand eel SA 3 [SEELNSSA3]

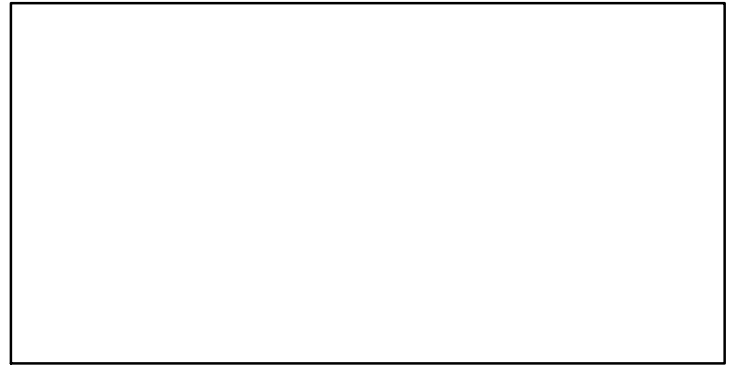


Sand eel SA 3 [SEELNSSA3]

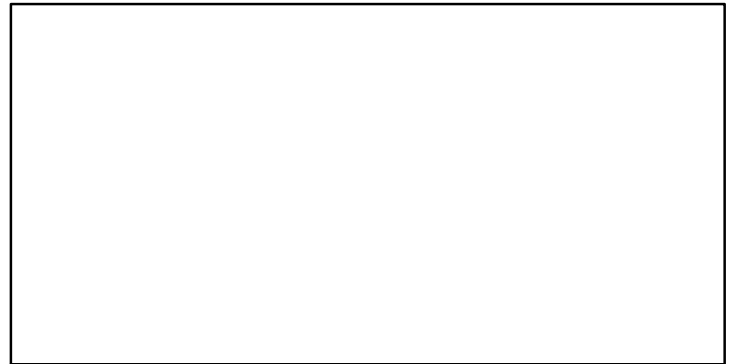
TC-MT, TL-MT, RecC* (1986–2018–ICESIMP2018)



TAC*, Cpair*, Cadv*



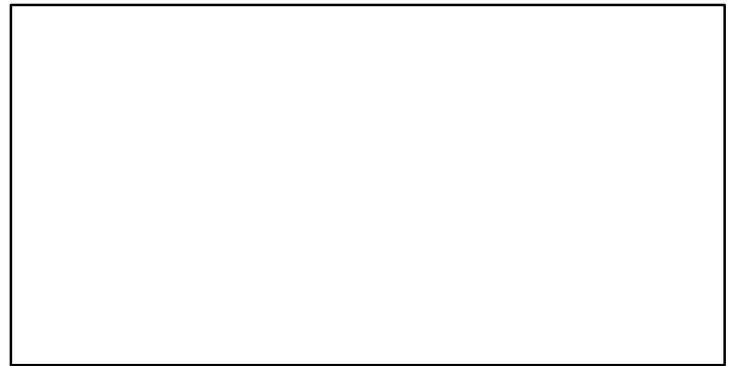
CPUE*



EFFORT*



CdivMSY*



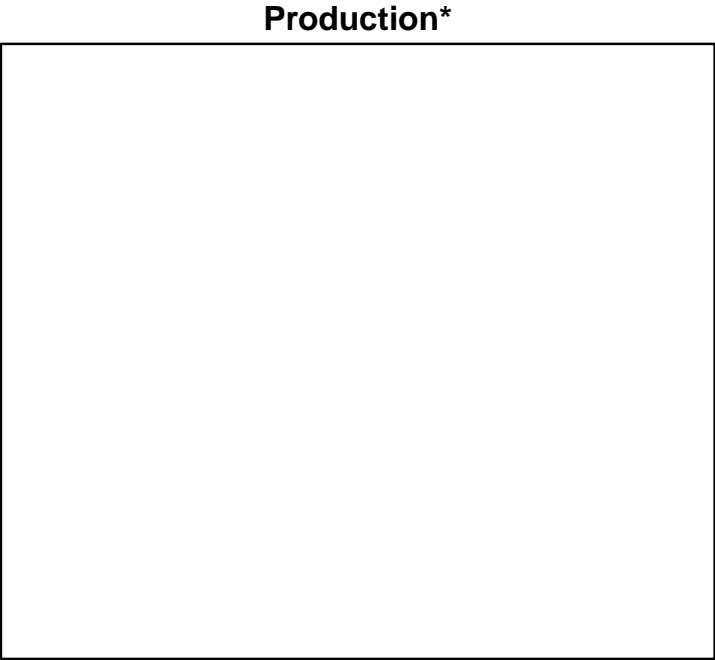
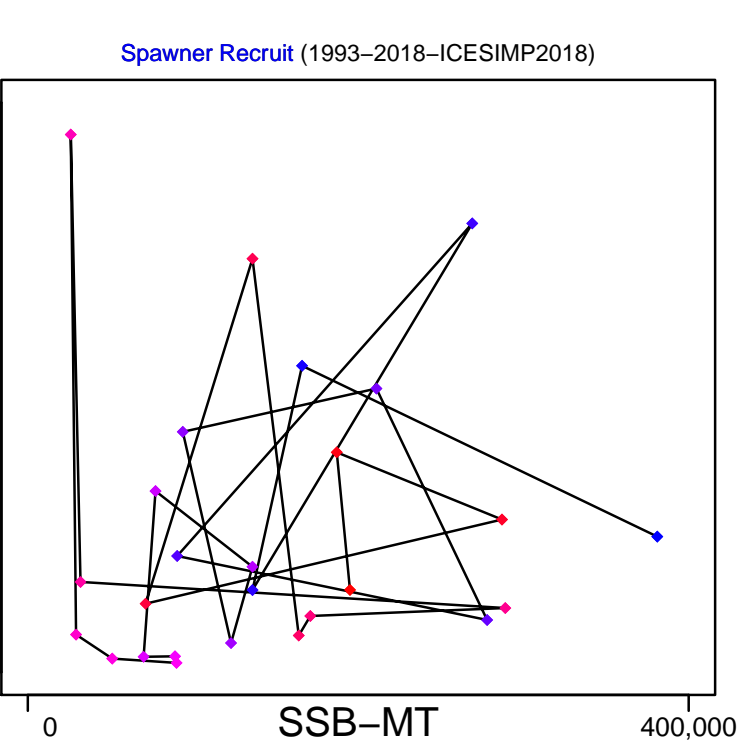
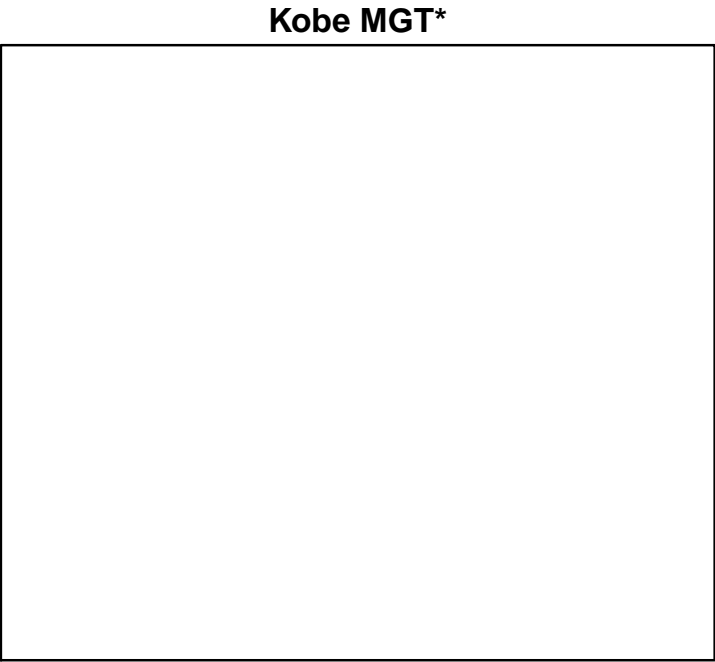
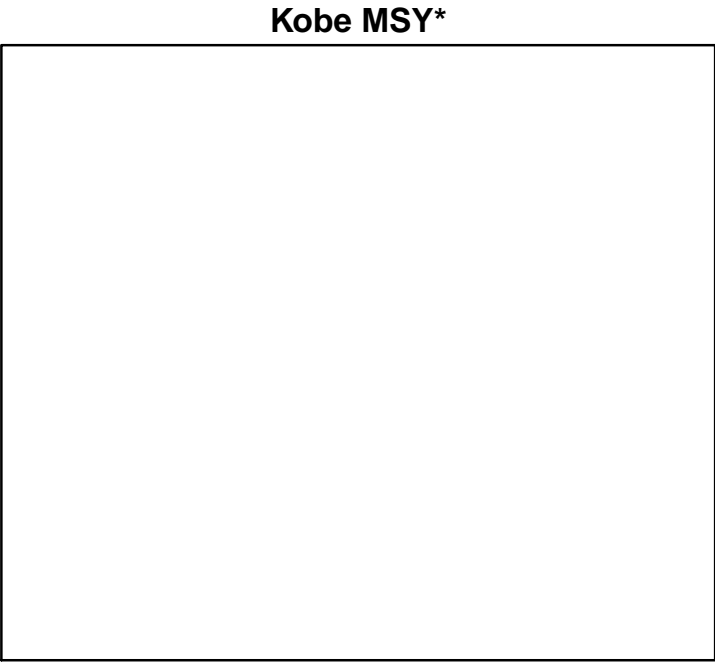
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Sand eel Sandeel Area 4 [SEELNSSA4]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA4-1993-2018-ICESIMP2018
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

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	2018	48,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	195,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	7.22×10^{10}	-	0
F	F-1/yr	2018	0.047	-	1 to 2
ER	-	-	-	-	-
TC	TC-MT	2018	17,500		
TL	TL-MT	2018	17,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.908		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



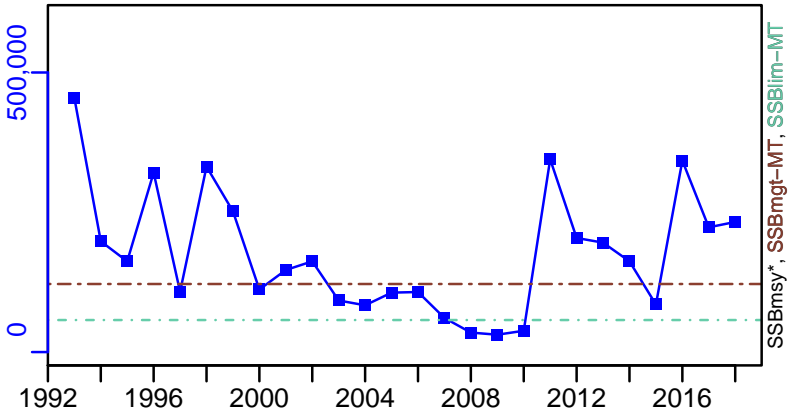
◆ Start Year ◆ End Year * No Data

Sand eel Sandeel Area 4 [SEELNSSA4]

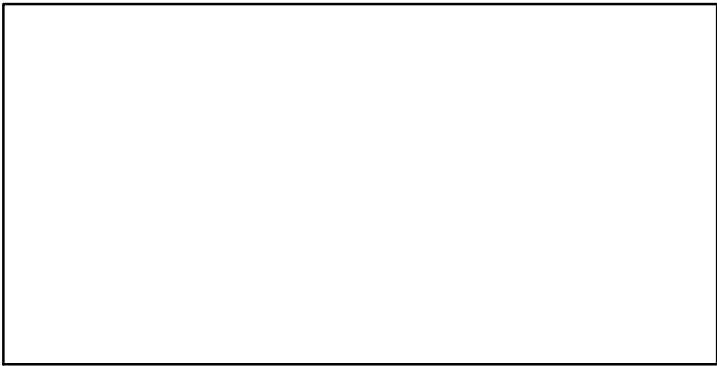
TB*



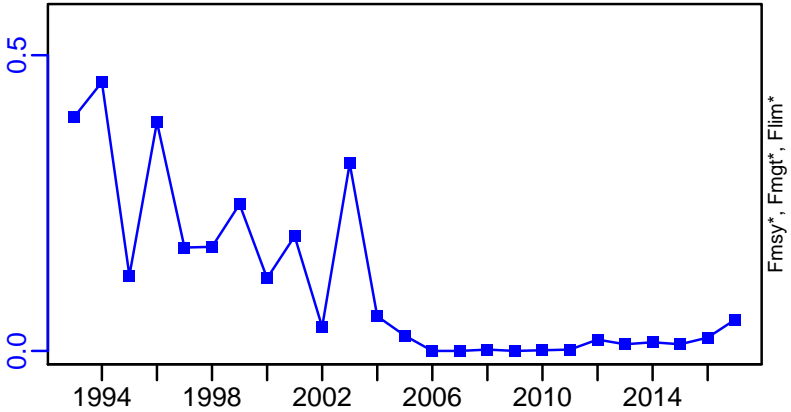
SSB-MT (1993–2018–ICESIMP2018)



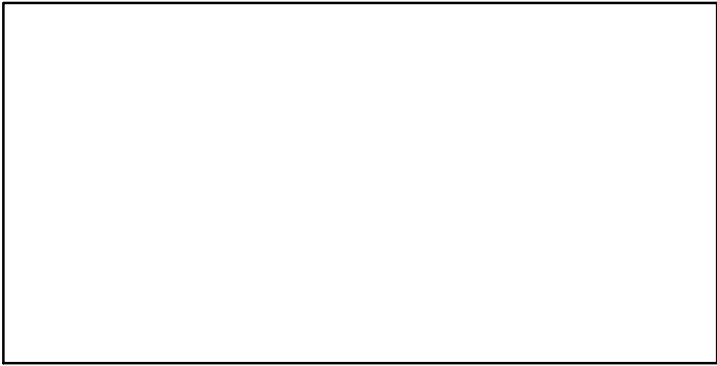
TN *



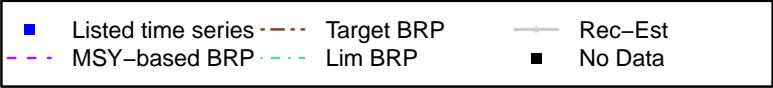
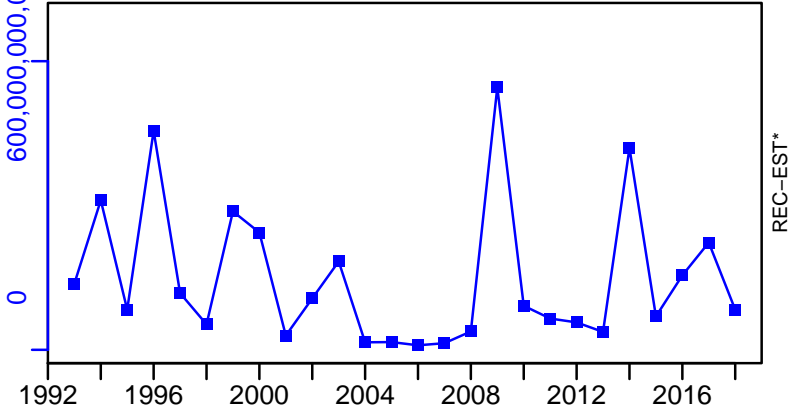
F-1/yr (1993–2018–ICESIMP2018)



ER*

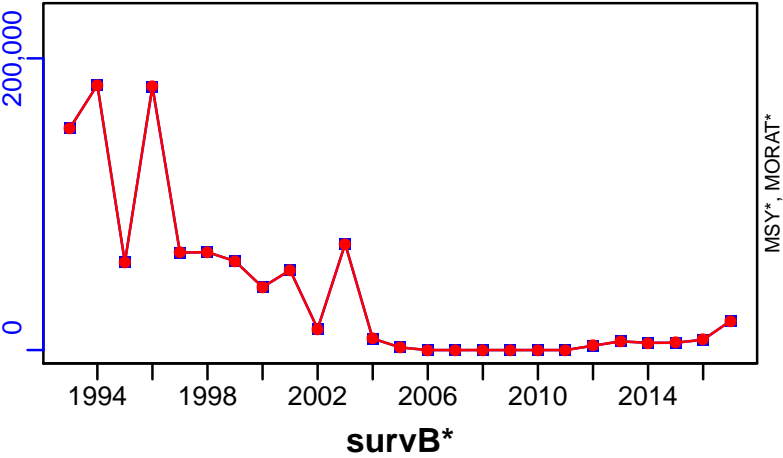


R-E00 (1993–2018–ICESIMP2018)

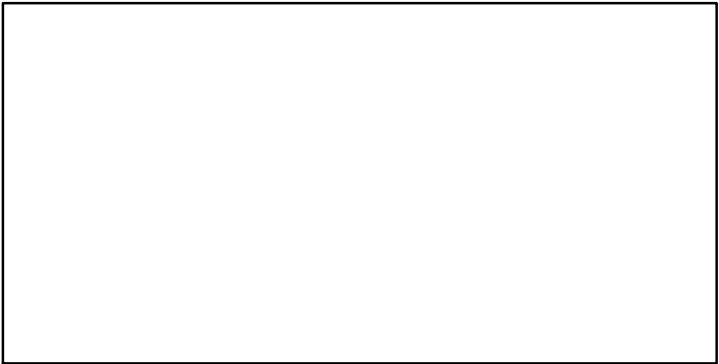


Sand eel Sandeel Area 4 [SEELNSSA4]

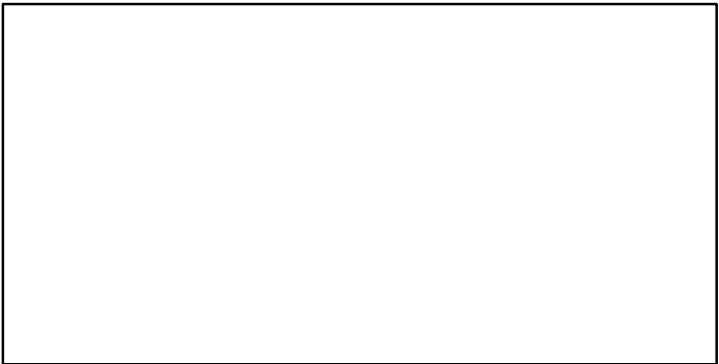
TC-MT, TL-MT, RecC* (1993–2018–ICESIMP2018)



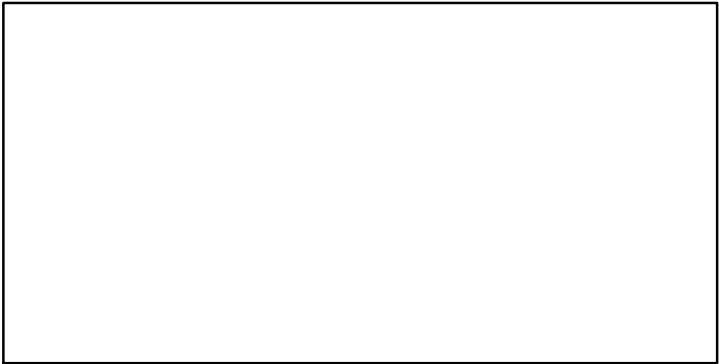
TAC*, Cpair*, Cadv*



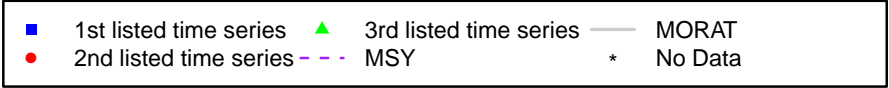
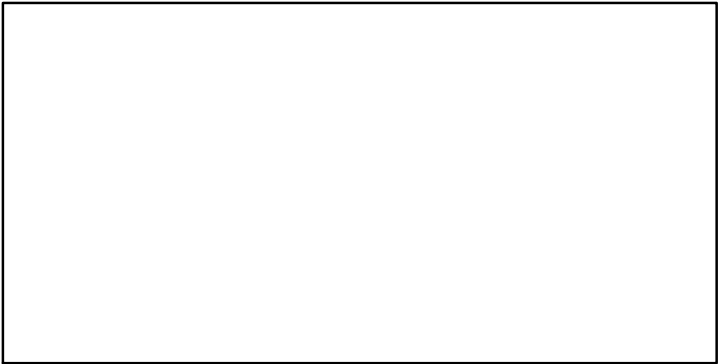
CPUE*



EFFORT*



CdivMSY*

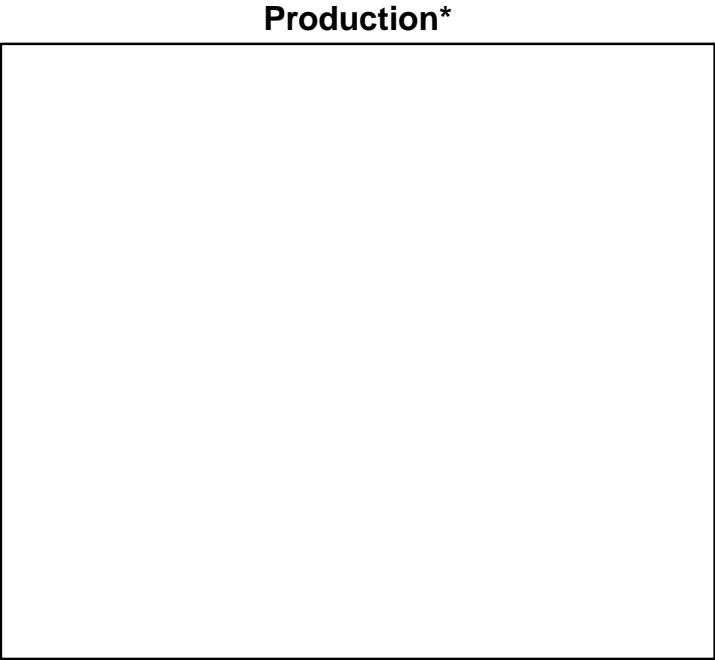
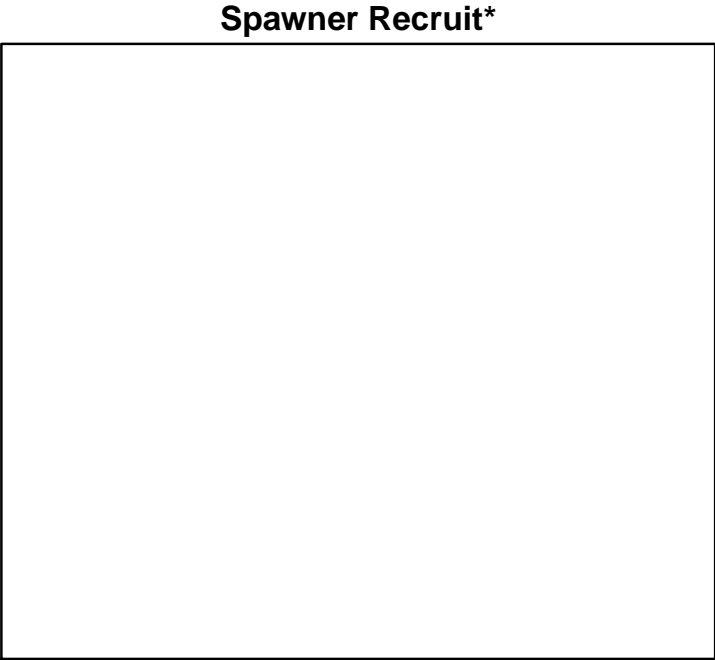
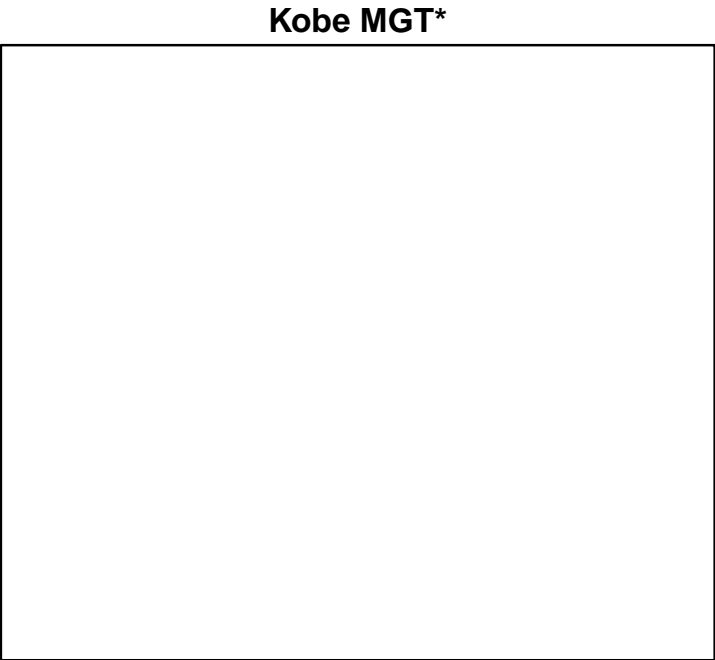
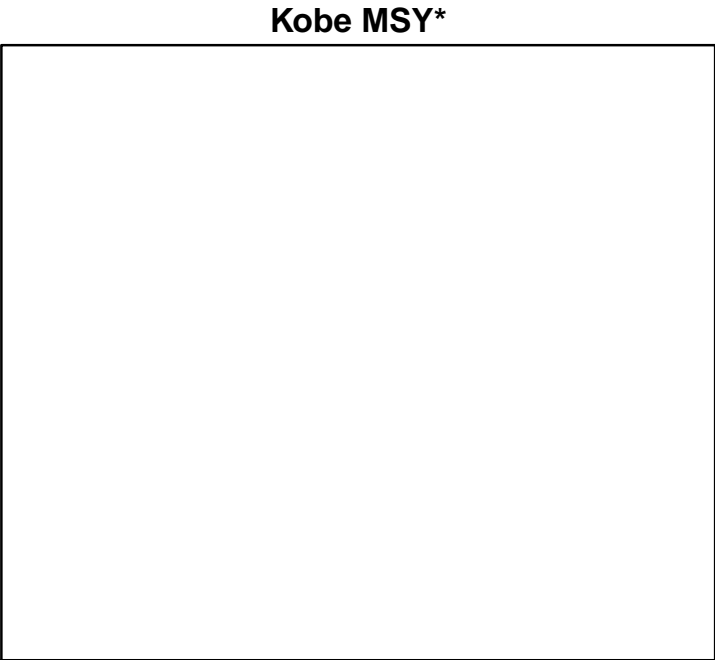


Sand eel SA 5 [SEELNSSA5]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA5-1982-2016-ICESIMP2018
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, 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	2016	0		
TL	TL-MT	2015	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

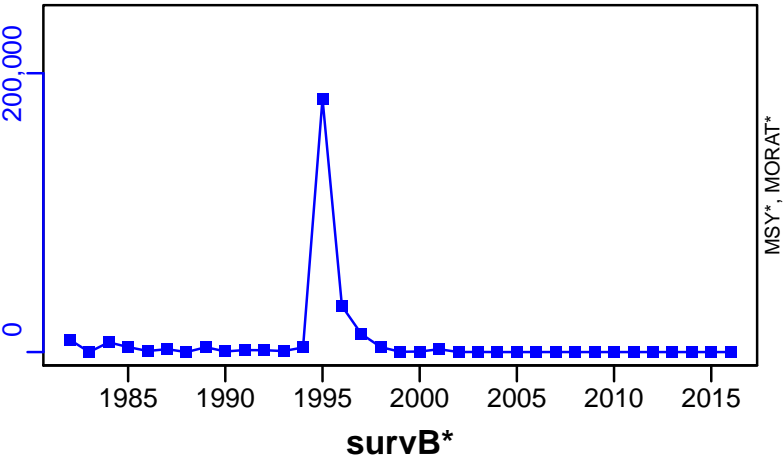


Recruits*



Sand eel SA 5 [SEELNSSA5]

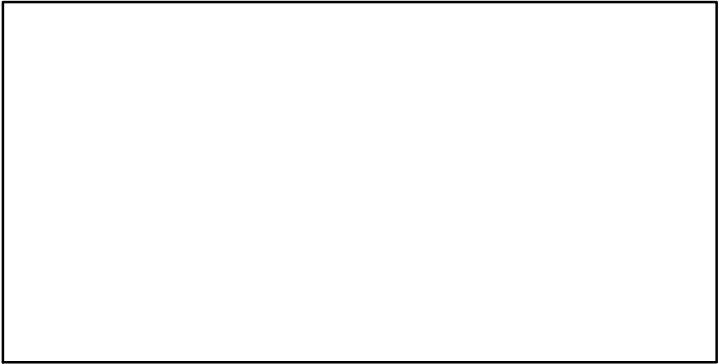
TC-MT, TL*, RecC* (1982-2016-ICESIMP2018)



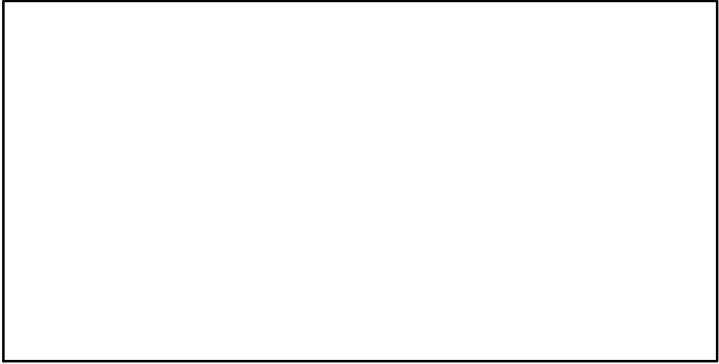
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*

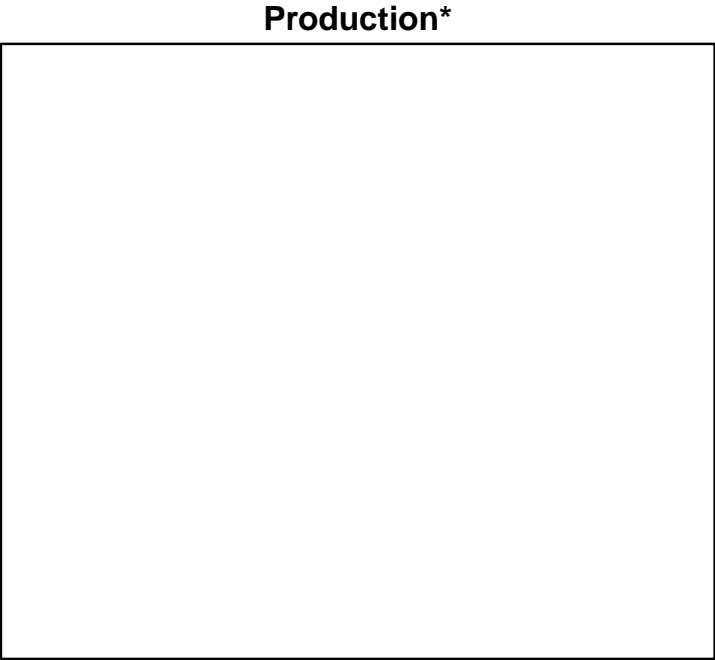
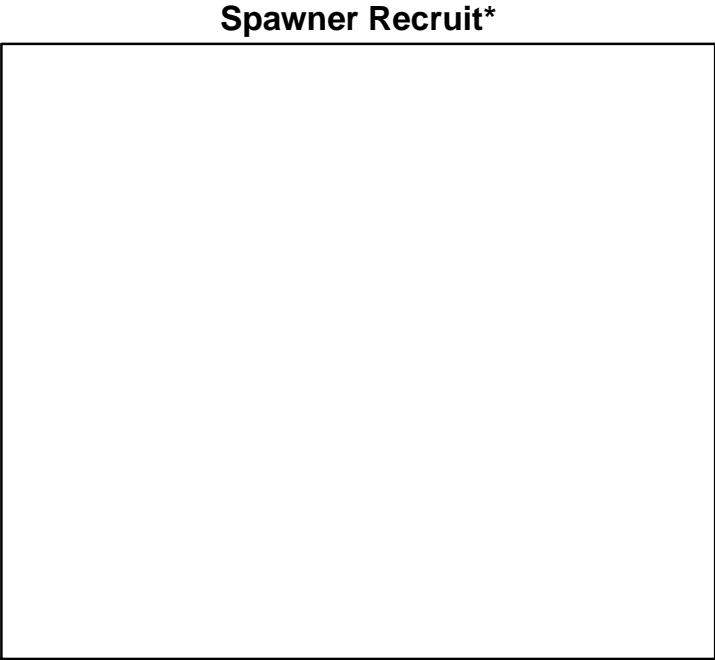
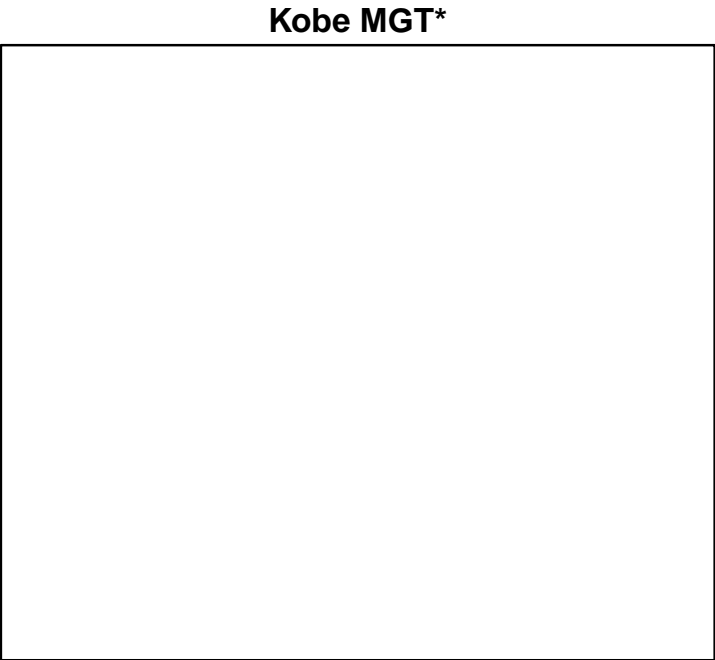
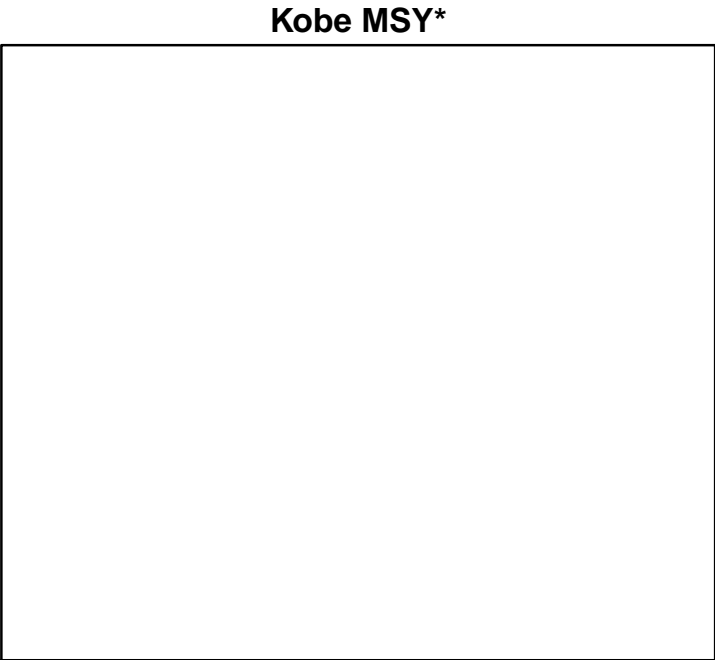


Sand eel SA 6 [SEELNSSA6]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA6-1983-2016-ICESIMP2018
Area	Sandeel Area 6
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	123		
TL	TL-MT	2016	123		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

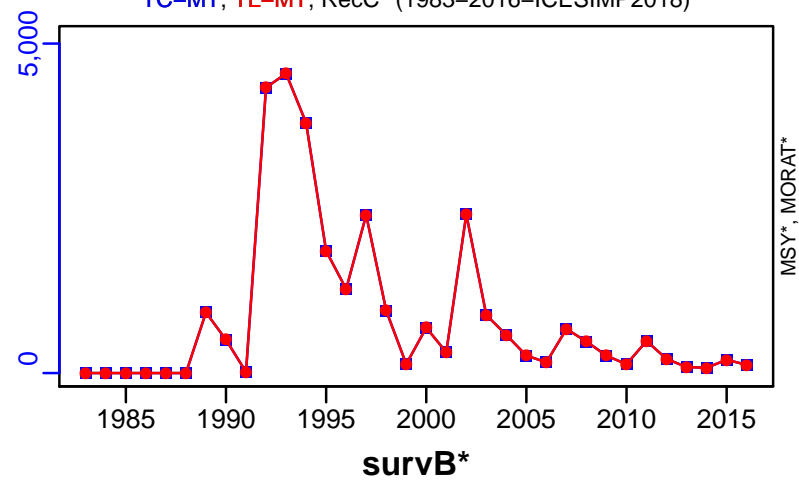


Recruits*

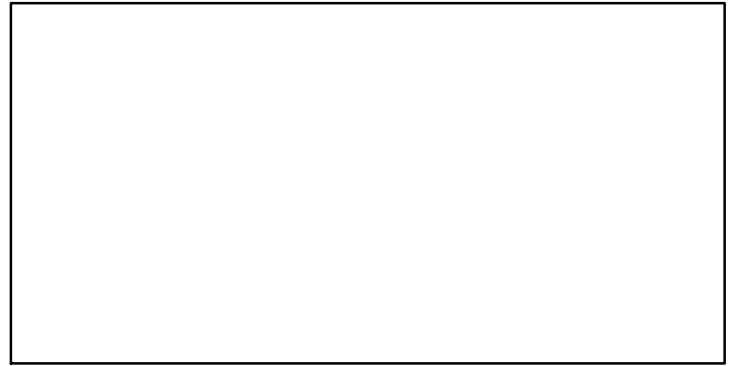


Sand eel SA 6 [SEELNSSA6]

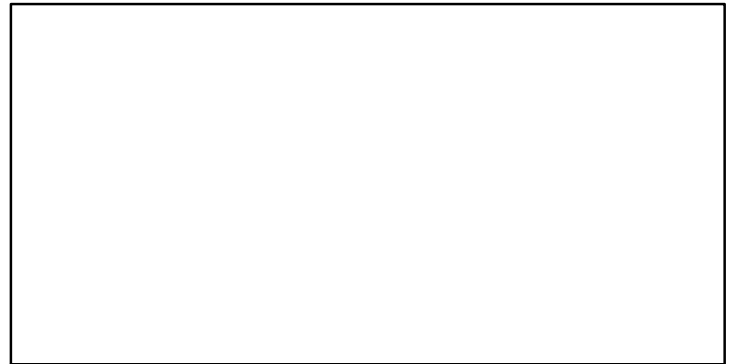
TC-MT, TL-MT, RecC* (1983–2016–ICESIMP2018)



TAC*, Cpair*, Cadv*



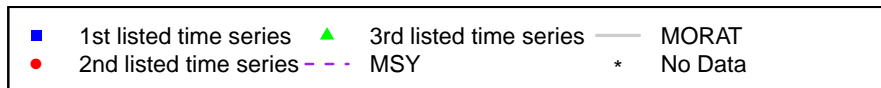
CPUE*



EFFORT*



CdivMSY*

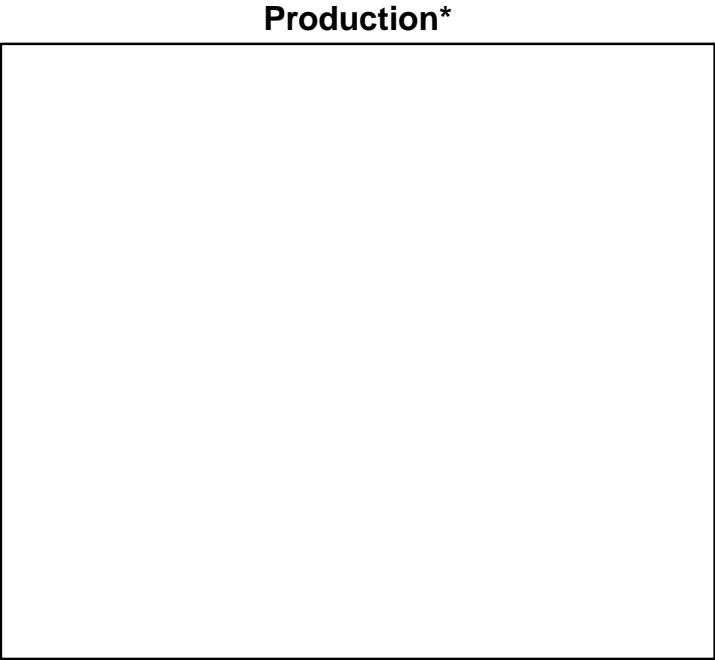
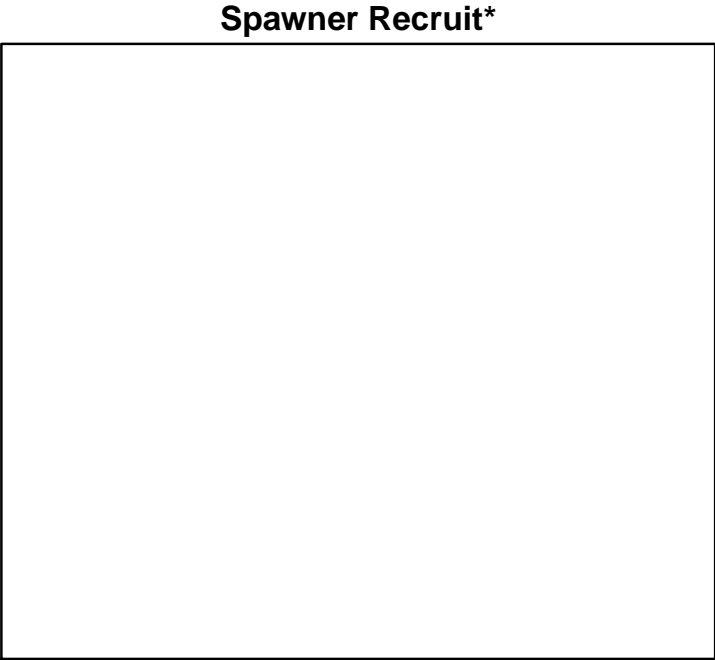
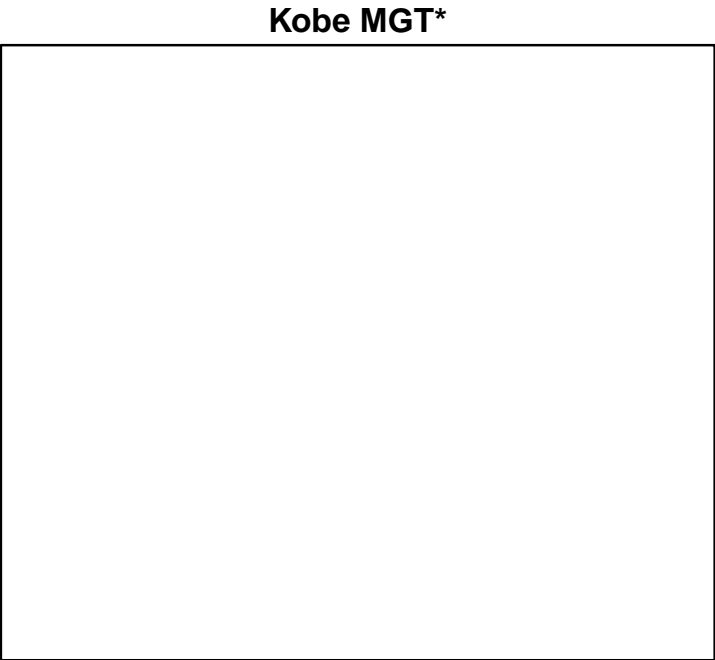
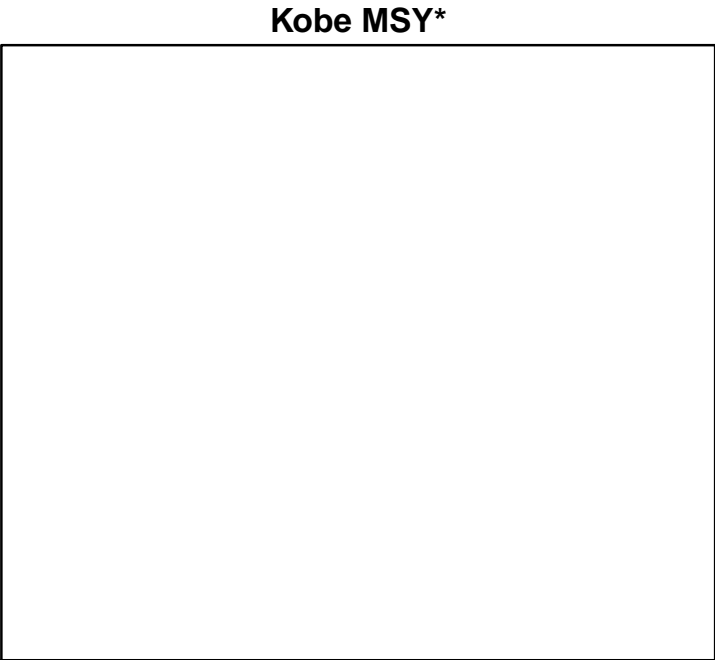


Sand eel SA 7 [SEELNSSA7]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELNSSA7-1983-2016-ICESIMP2018
Area	Sandeel Area 7
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2015, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	0		
TL	TL-MT	2015	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

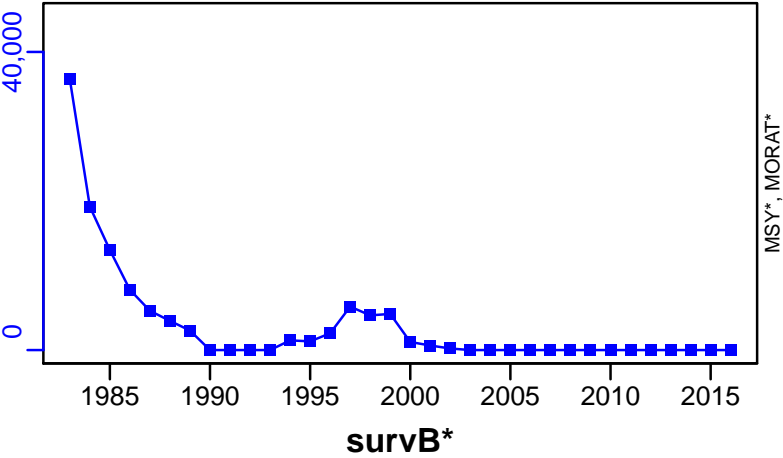


Recruits*

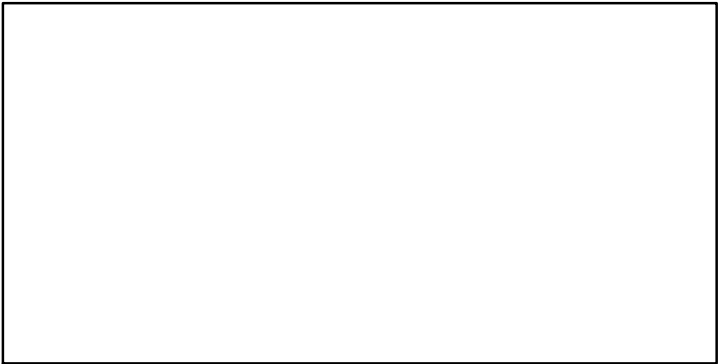


Sand eel SA 7 [SEELNSSA7]

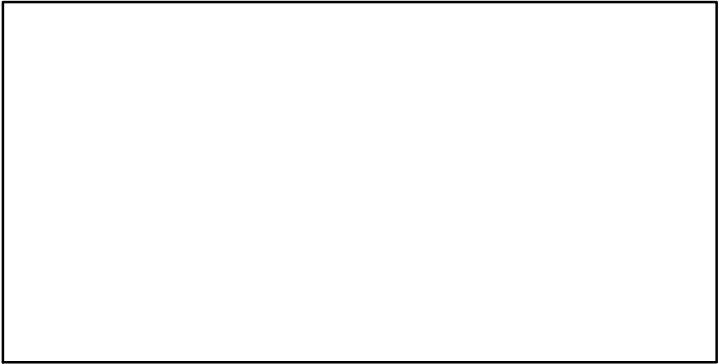
TC-MT, TL*, RecC* (1983-2016-ICESIMP2018)



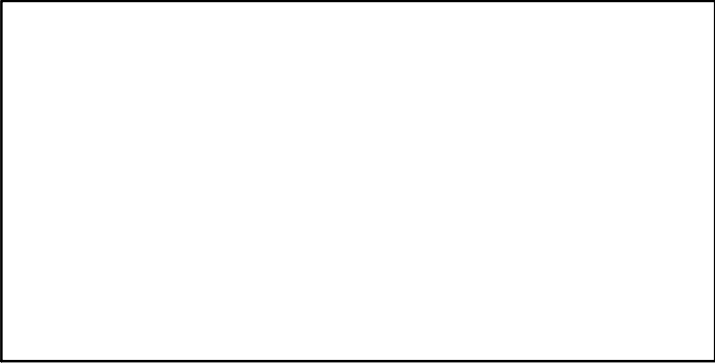
TAC*, Cpair*, Cadv*



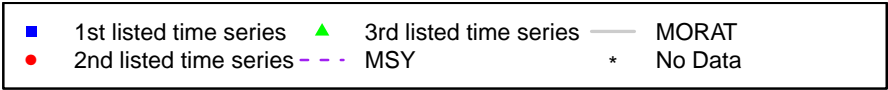
CPUE*



EFFORT*



CdivMSY*



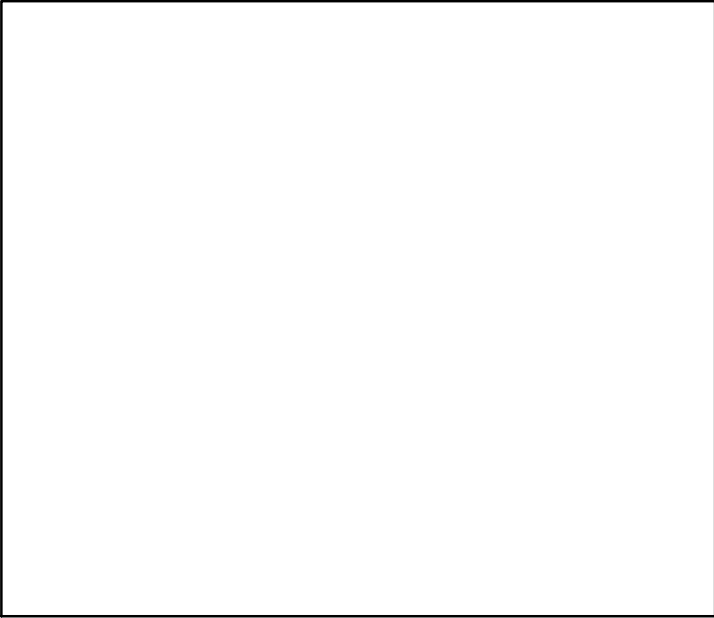
Sand eel West of Scotland [SEELVIa]

Metadata	
Scientific Name	Ammodytes spp
Current Assess ID	HAWG-SEELVIa-1970-2015-ICESIMP2018
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

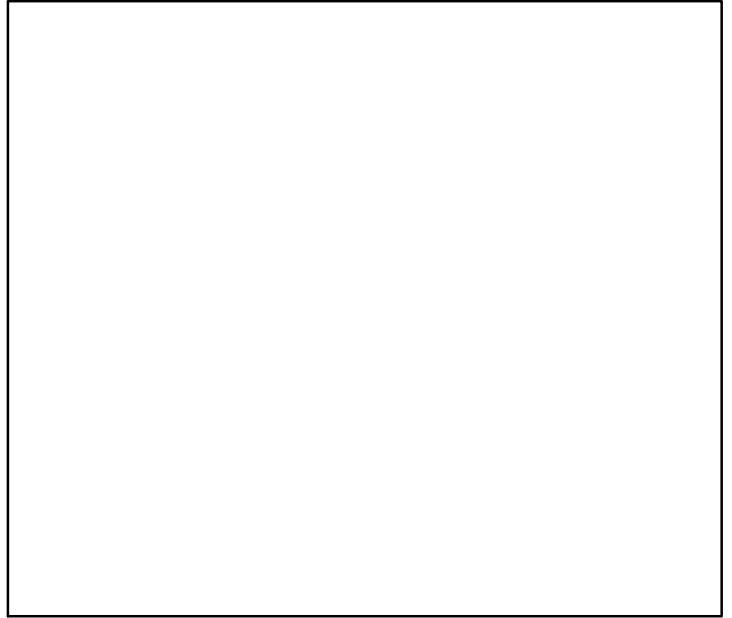
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

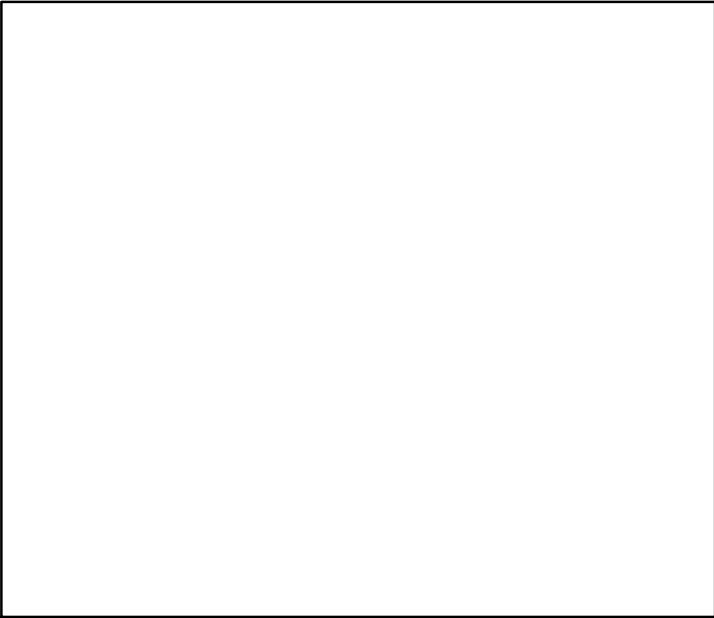
Kobe MSY*



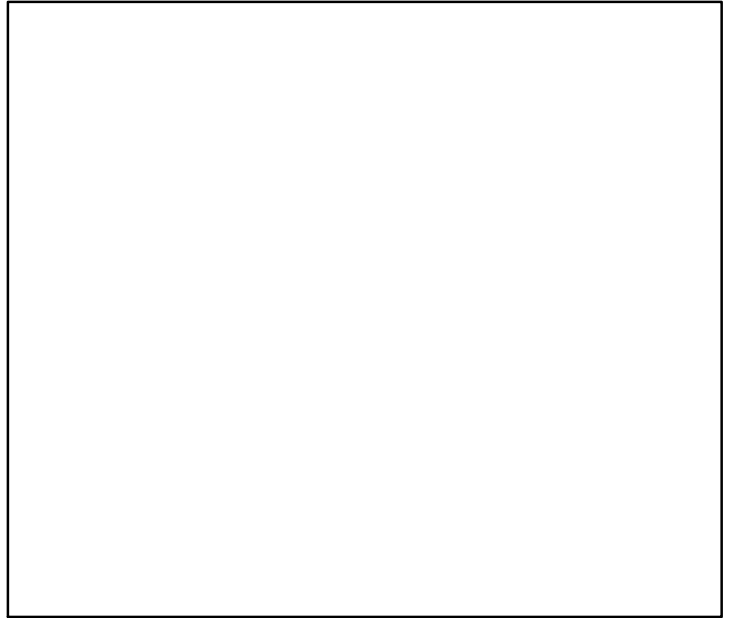
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sand eel West of Scotland [SEELVla]

TB*



SSB*



TN *



F*



ER*



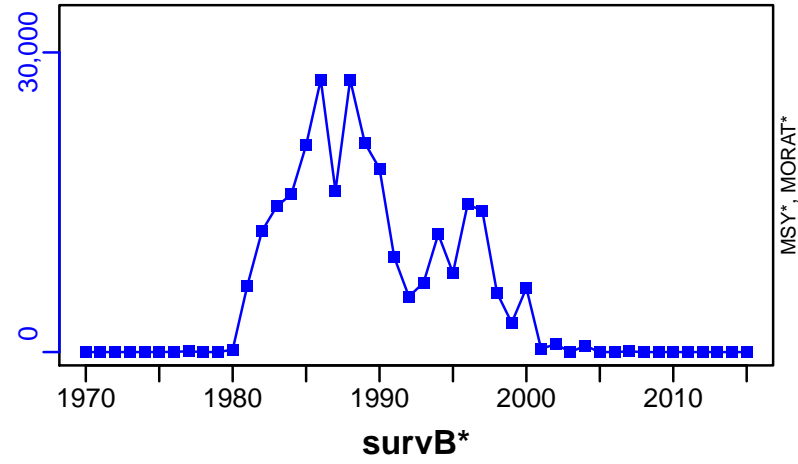
Recruits*



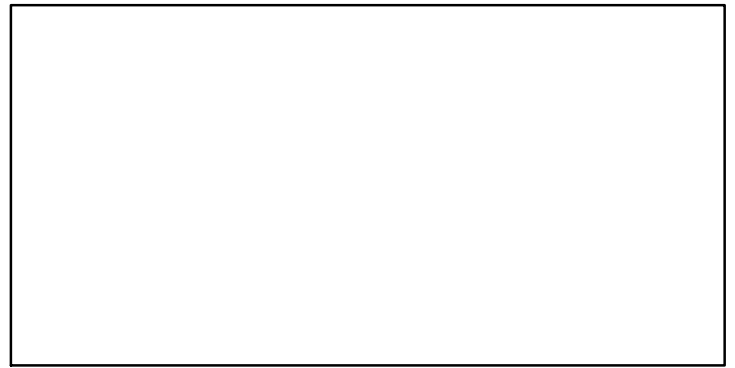
Sand eel West of Scotland [SEELVla]

TL-MT, TC*, RecC* (1970–2015–ICESIMP2018)

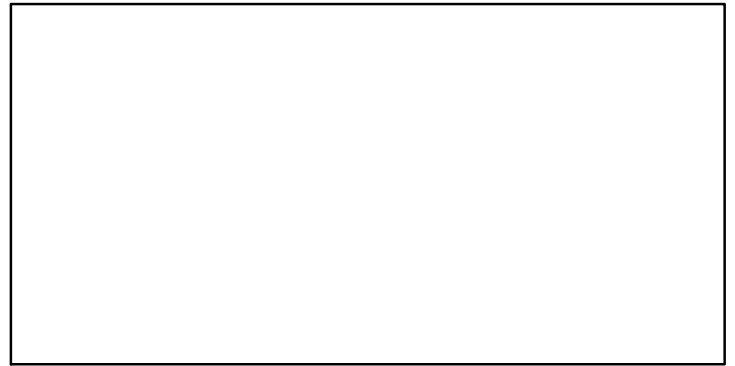
TAC*, Cpair*, Cadv*



MSY*, MORAT*



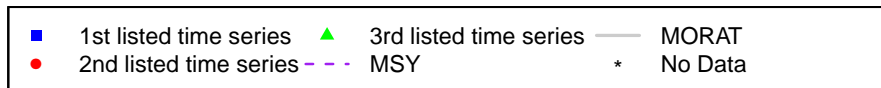
CPUE*



EFFORT*



CdivMSY*



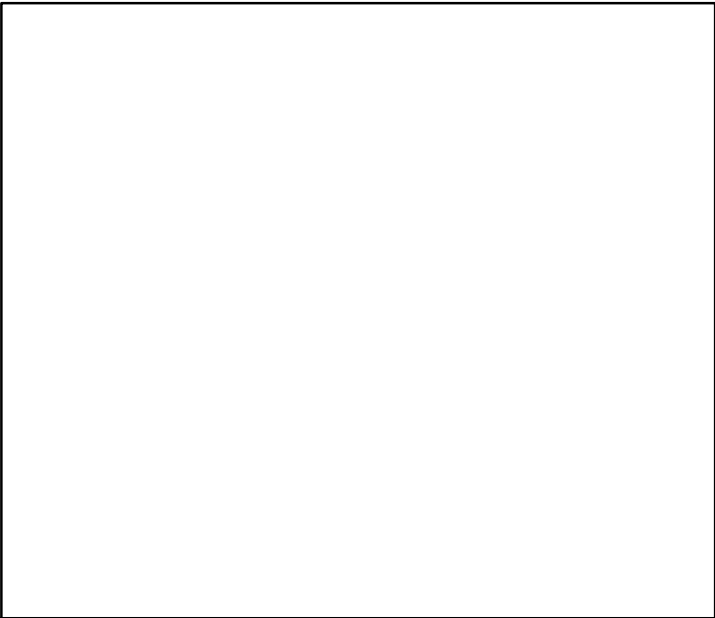
Smalleyed ray VIIde [SERAYVIIde]

Metadata	
Scientific Name	Raja microocellata
Current Assess ID	WGEF-SERAYVIIde-2009-2015-ICESIMP2018
Area	VIIde
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	-	-	-		

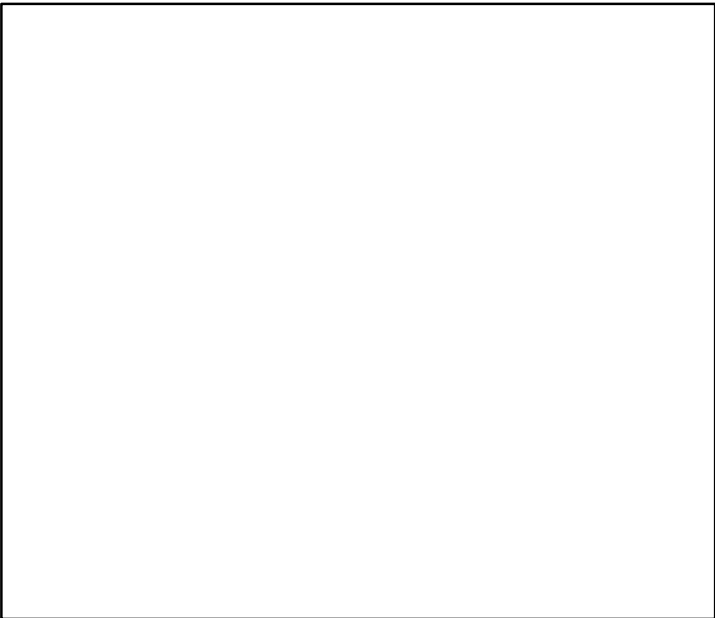
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Smalleyed ray Vilde [SERAYVilde]

TB*



SSB*



TN *



F*



ER*

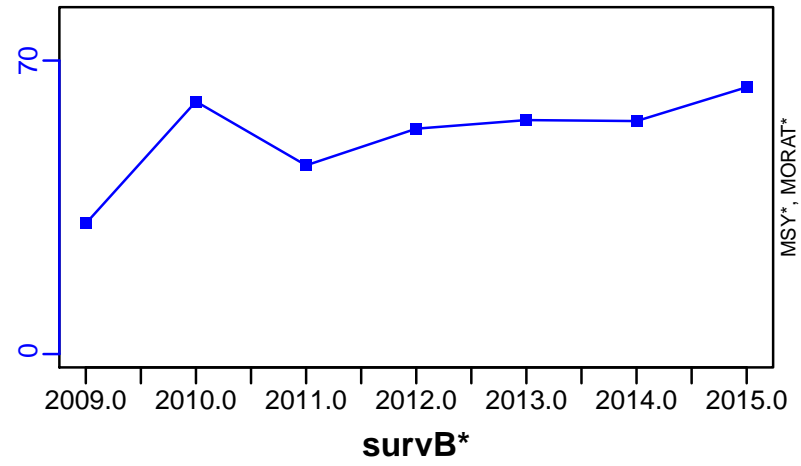


Recruits*

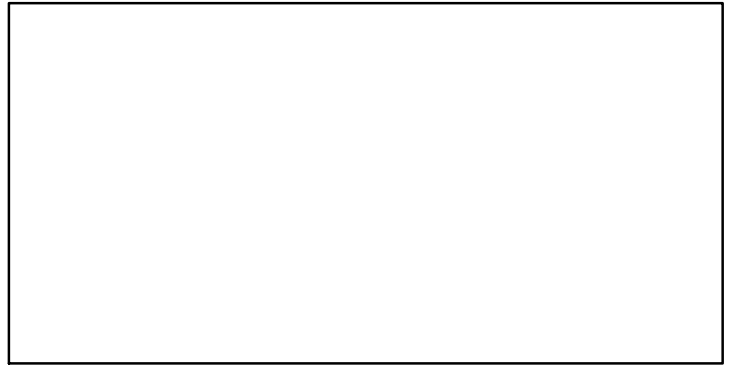


Smalleyed ray Vilde [SERAYVilde]

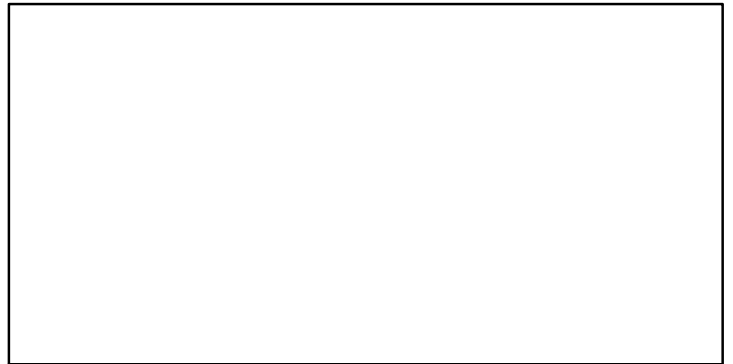
TL-MT, TC*, RecC* (2009–2015–ICESIMP2018)



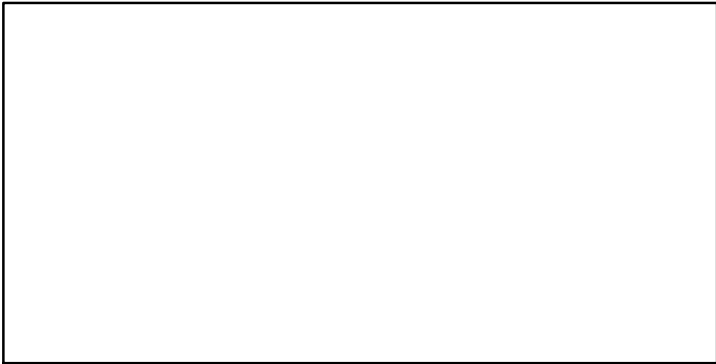
TAC*, Cpair*, Cadv*



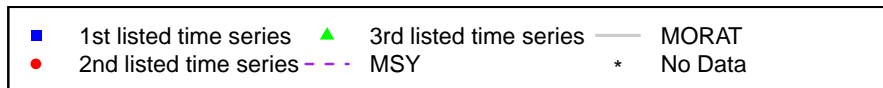
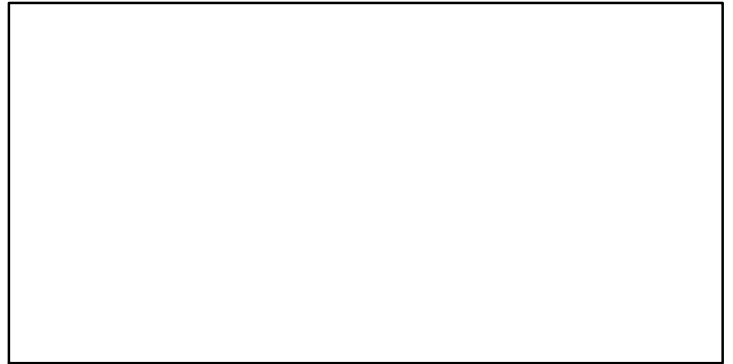
CPUE*



EFFORT*



CdivMSY*

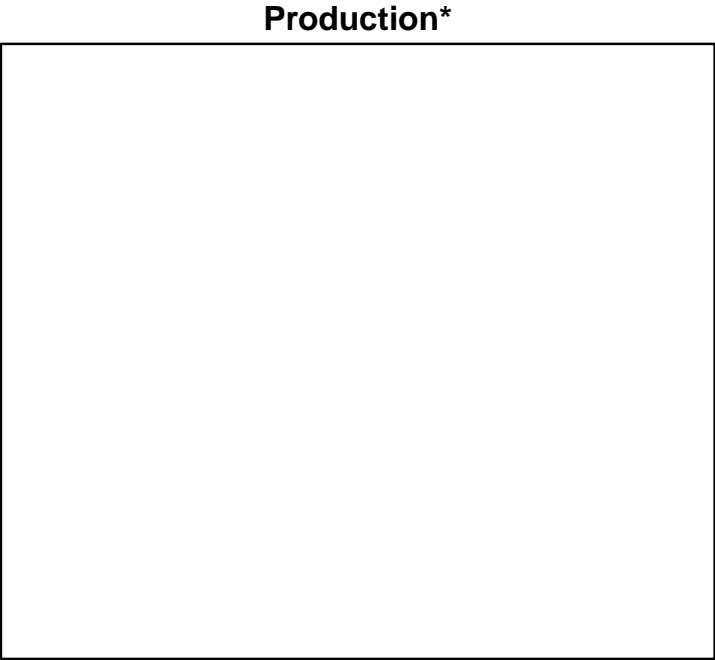
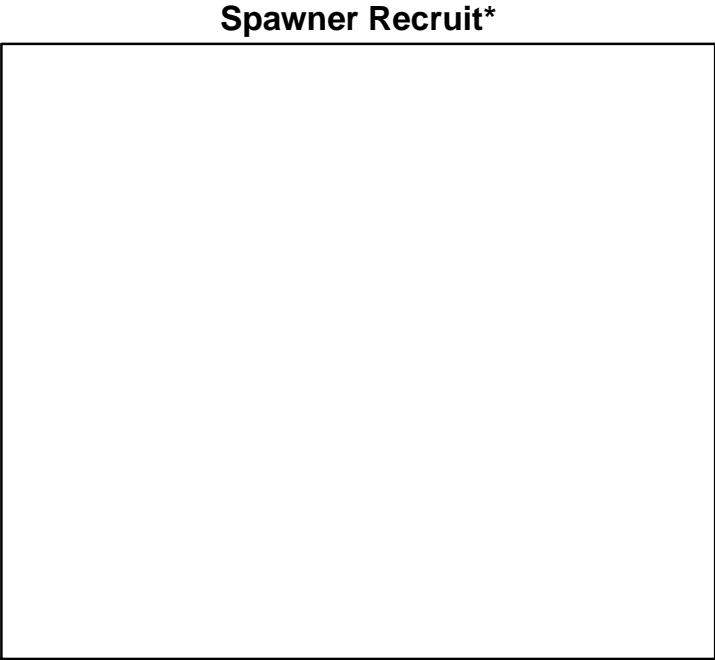
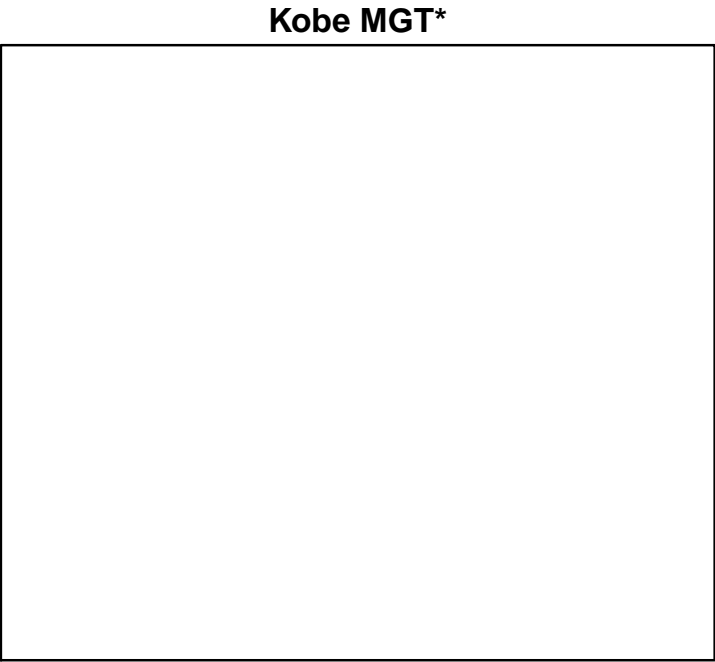
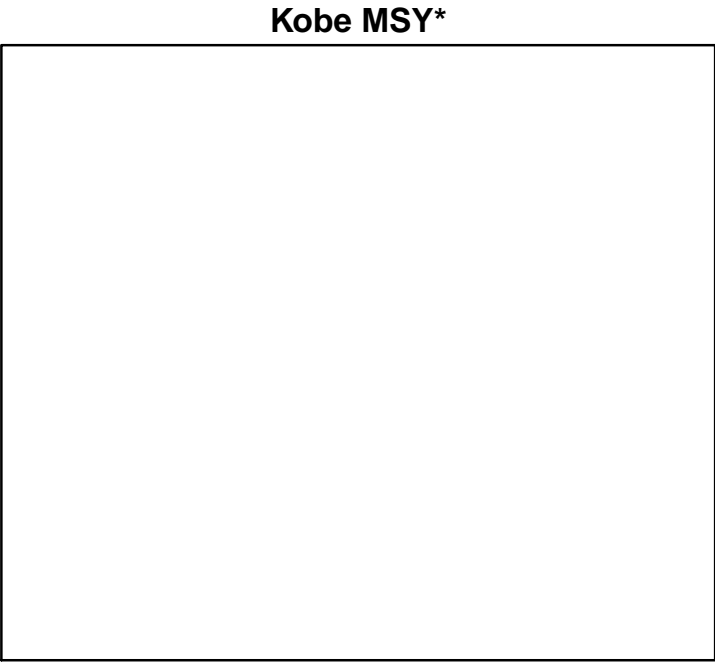


Smalleyed ray Celtic Sea [SERAYVII-f-g]

Metadata	
Scientific Name	Raja microocellata
Current Assess ID	WGEF-SERAYVII-f-g-1993-2015-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	2.03	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	208		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



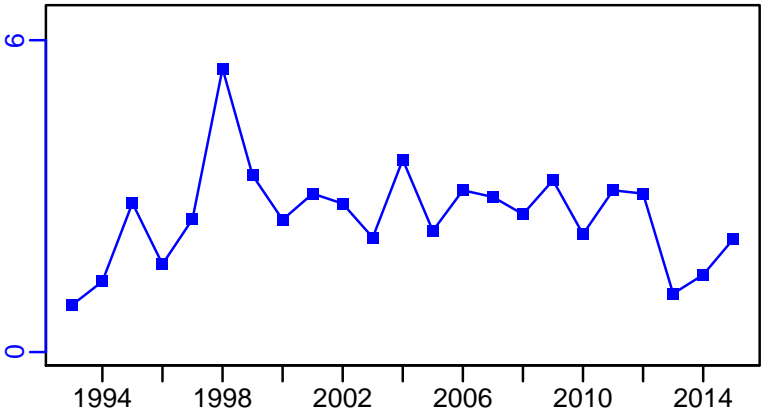
◆ Start Year ◆ End Year * No Data

Smalleyed ray Celtic Sea [SERAYVII-f-g]

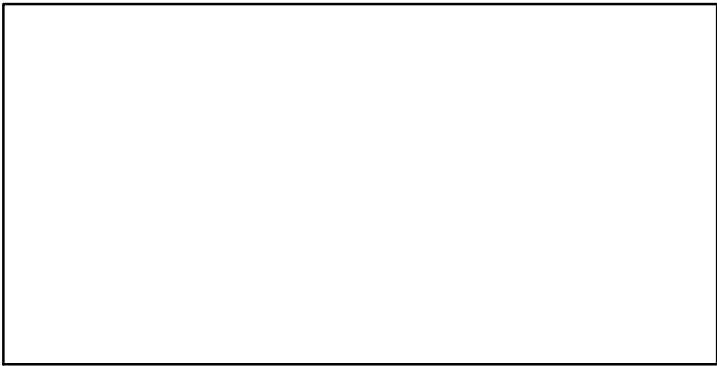
TB*



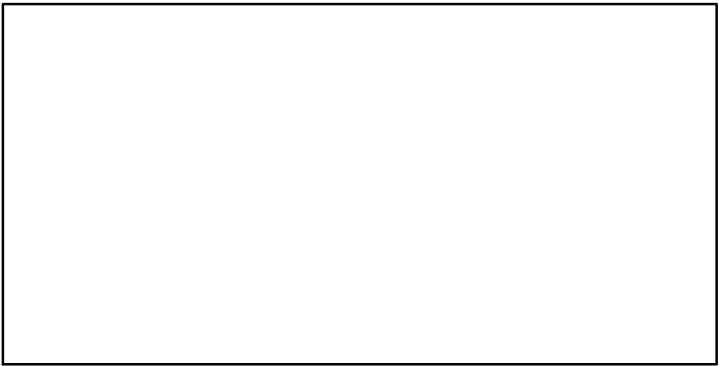
SSB-MT (1993–2015–ICESIMP2018)



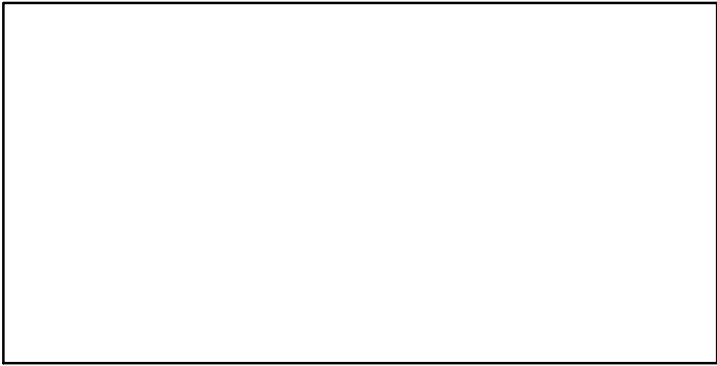
TN *



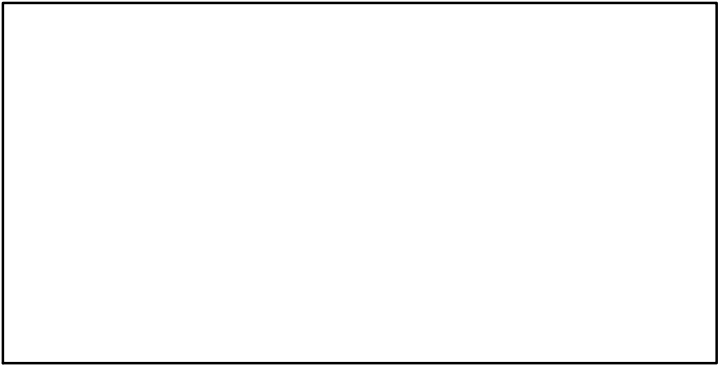
F*



ER*



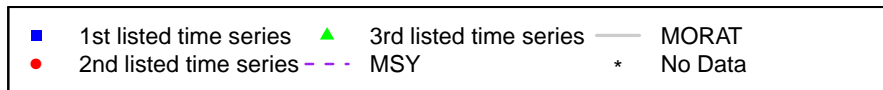
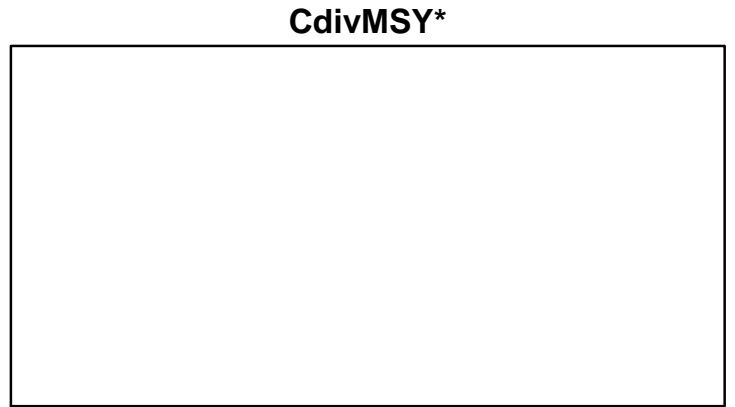
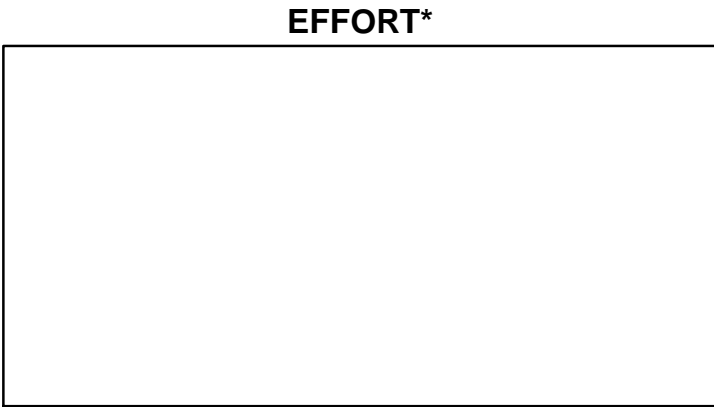
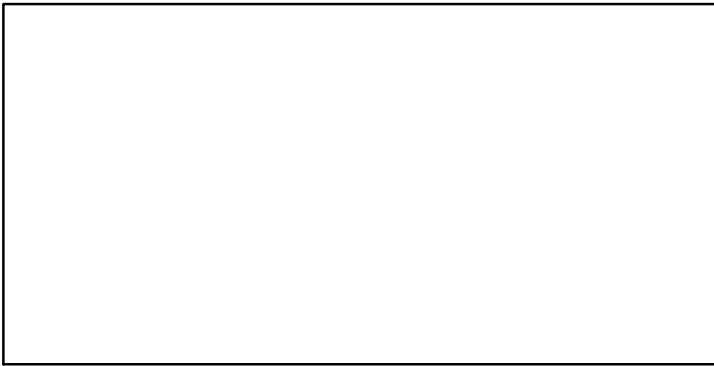
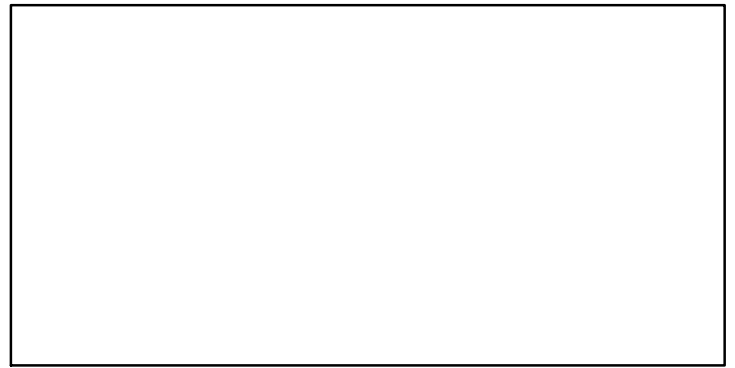
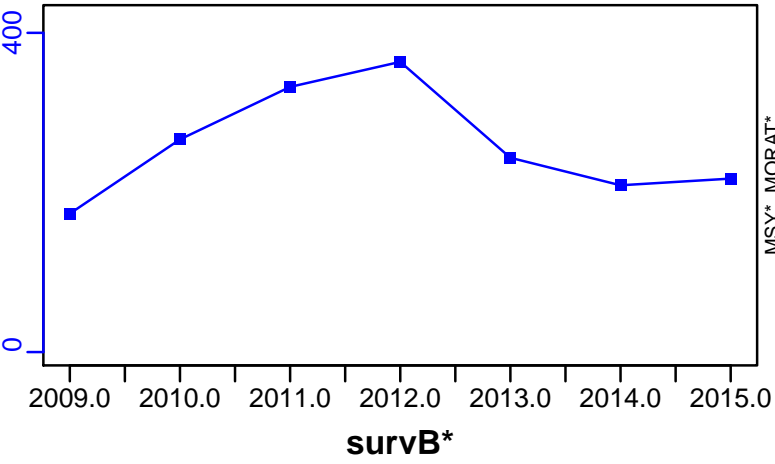
Recruits*



Smalleyed ray Celtic Sea [SERAYVIIIf-g]

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

TAC*, Cpair*, Cadv*



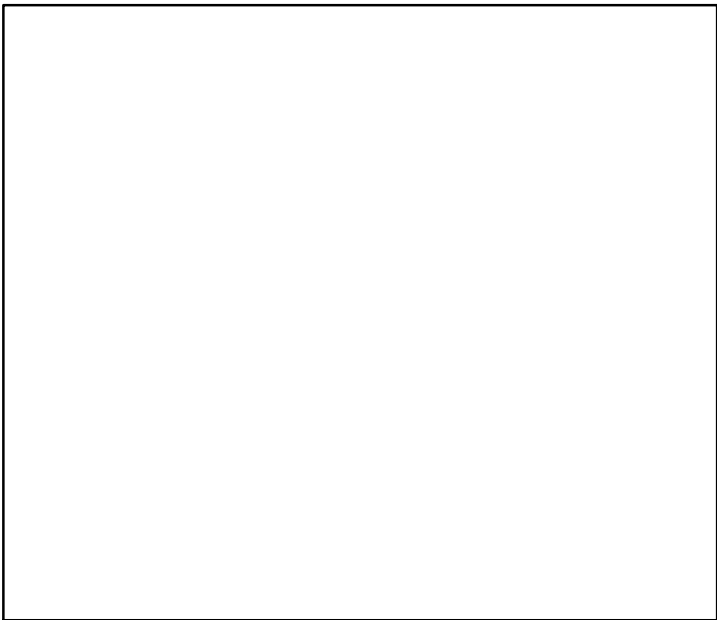
Shagreen ray ICES VI-VII [SGRAYVI-VII]

Metadata	
Scientific Name	Leucoraja fullonica
Current Assess ID	WGEF-SGRAYVI-VII-2009-2015-ICESIMP2018
Area	ICES VI-VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	196		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

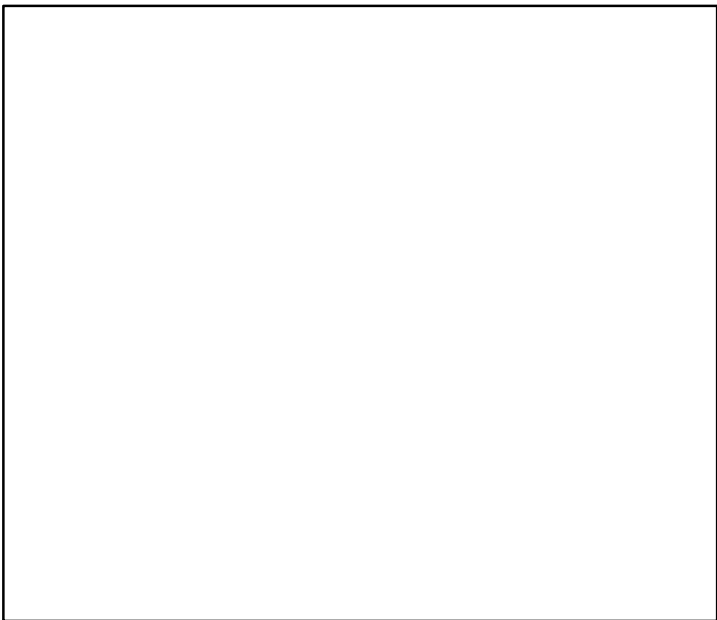
Kobe MSY*



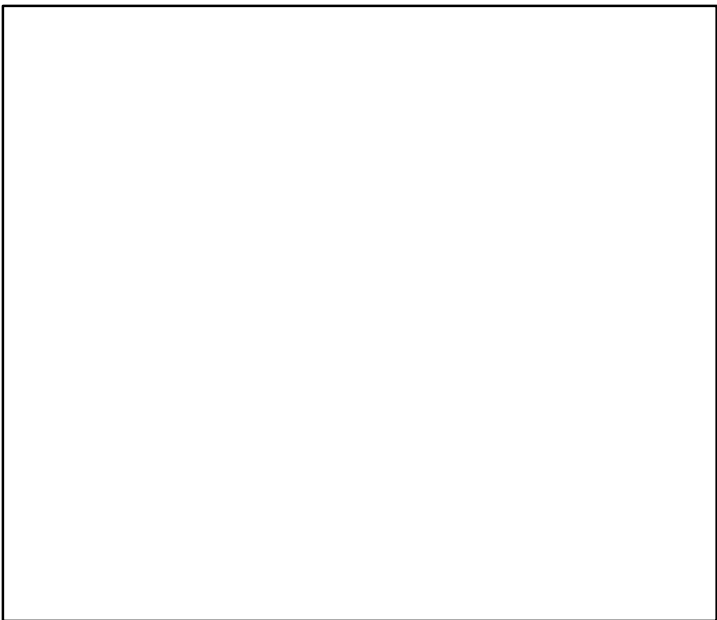
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



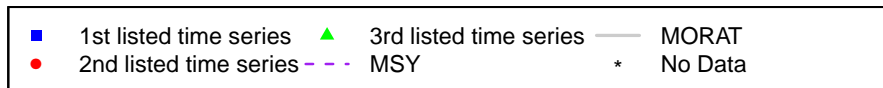
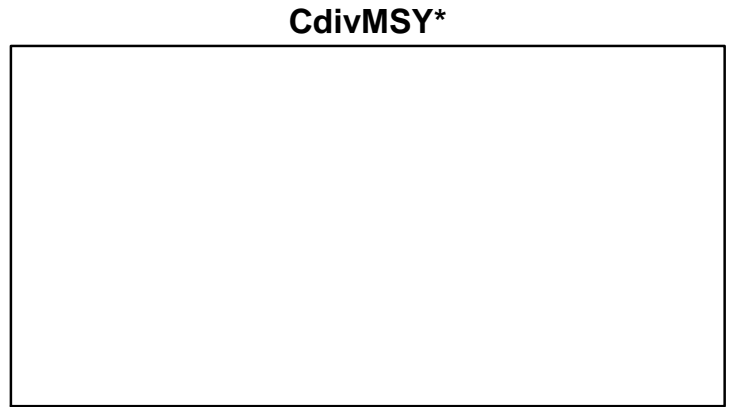
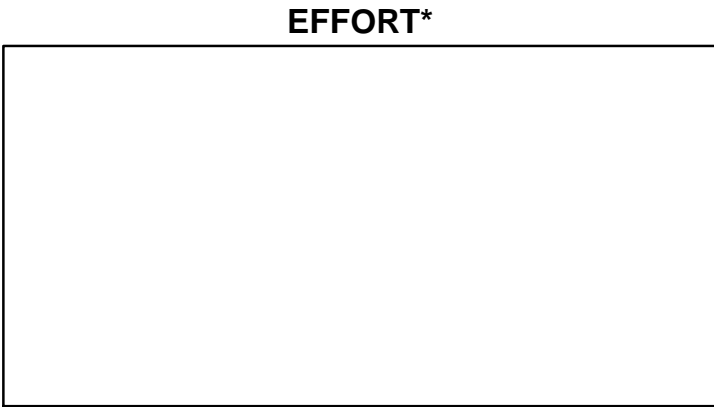
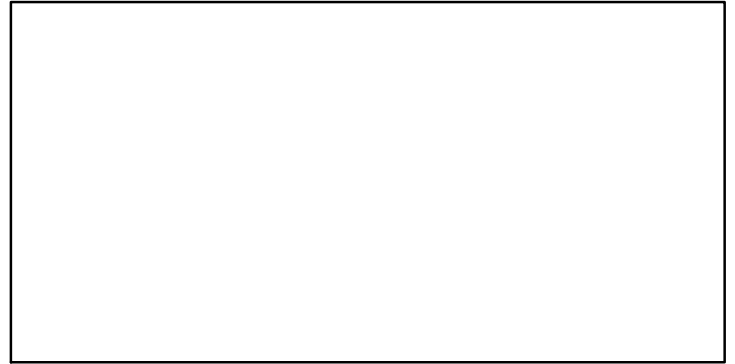
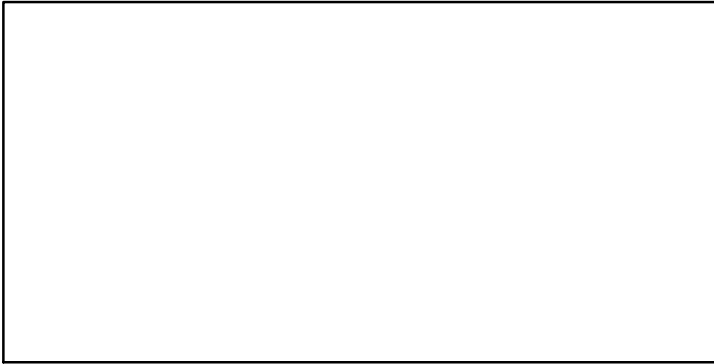
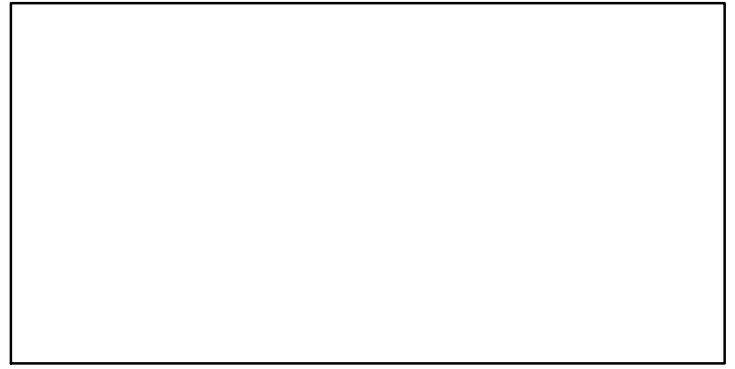
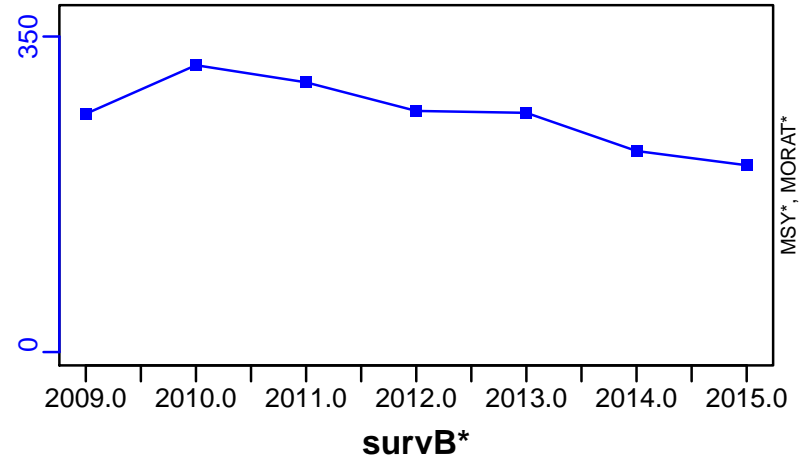
Recruits*



Shagreen ray ICES VI–VII [SGRAYVI–VII]

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

TAC*, Cpair*, Cadv*



Smooth-hound Northeast Atlantic [SHSPNEATL]

Metadata	
Scientific Name	Mustelus spp
Current Assess ID	WGEF-SHSPNEATL-2005-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2014	2.33	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	3410		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

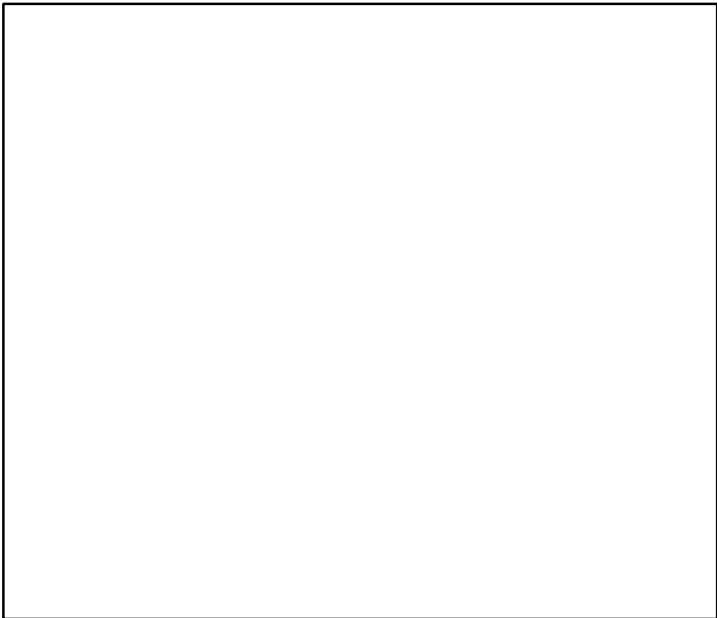
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



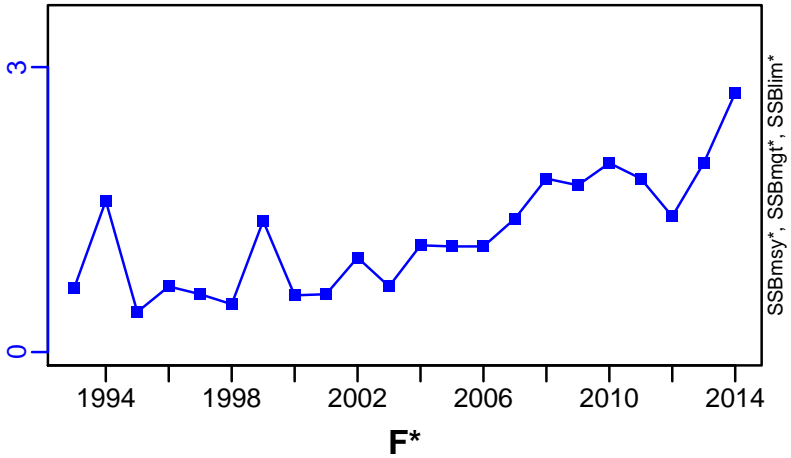
◆ Start Year ◆ End Year * No Data

Smooth-hound Northeast Atlantic [SHSPNEATL]

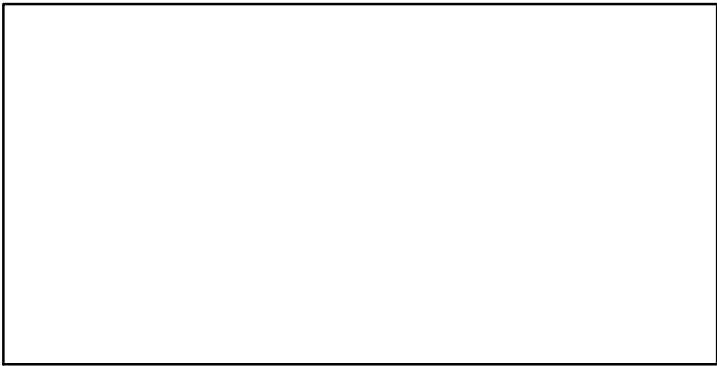
TB*



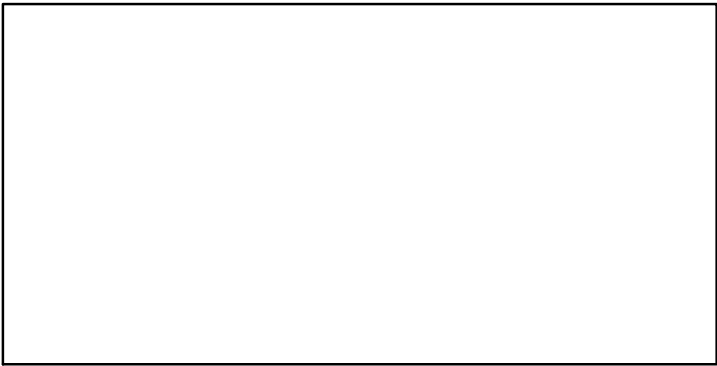
SSB-MT (1993–2014–ICESIMP2018)



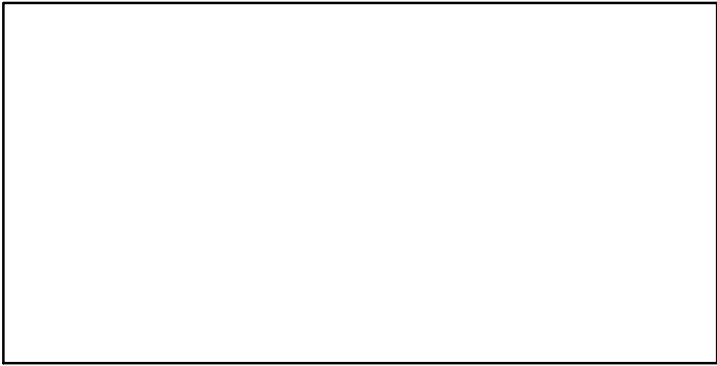
TN *



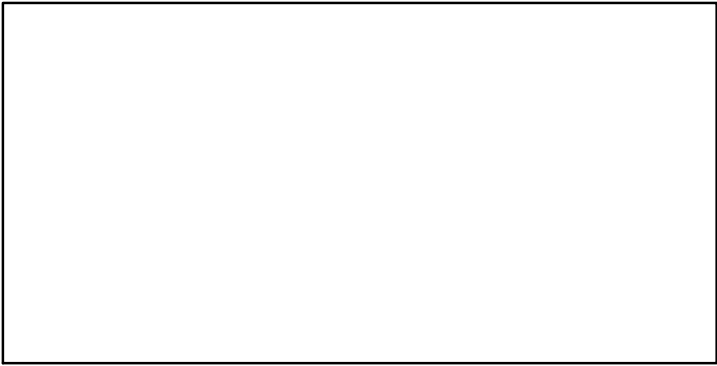
F*



ER*

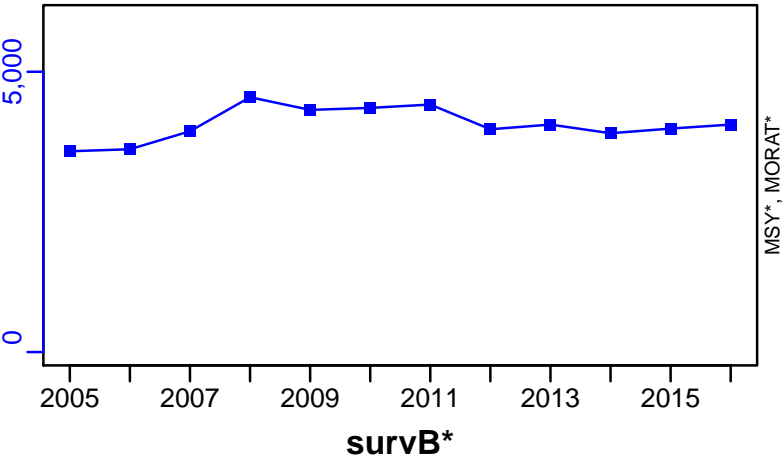


Recruits*



Smooth-hound Northeast Atlantic [SHSPNEATL]

TL-MT, TC*, RecC* (2005–2016–ICESIMP2018)



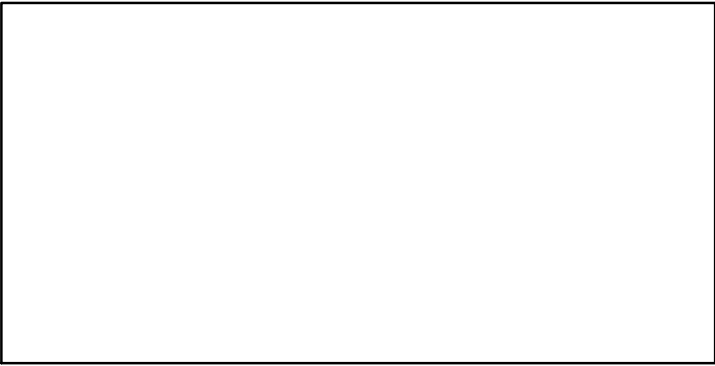
TAC*, Cpair*, Cadv*



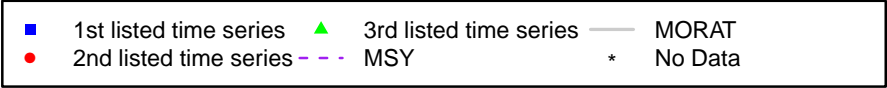
CPUE*



EFFORT*



CdivMSY*



Common sole Celtic Sea [SOLECS]

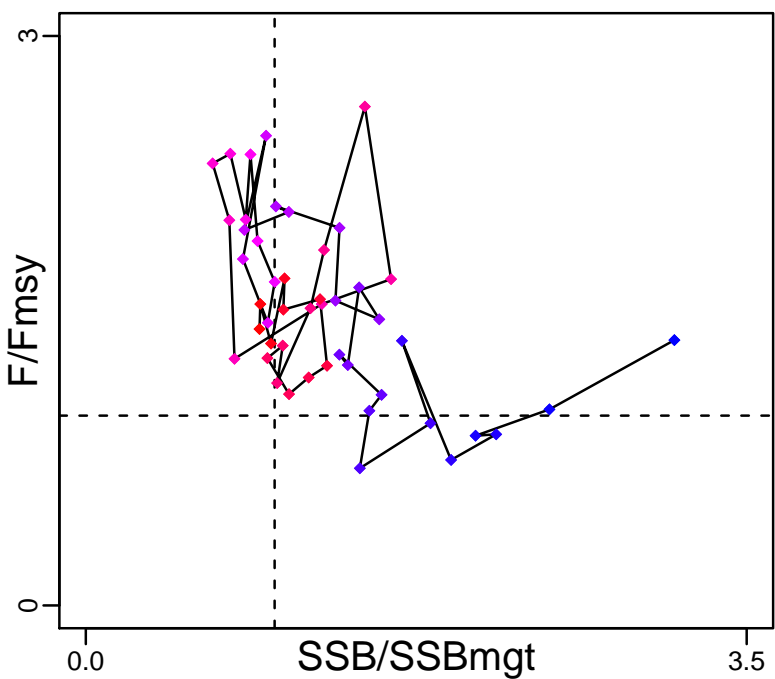
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLECS-1970-2018-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.274
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	2400
Fmgt	Fmgt-1/yr	2018	0.274
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1700
Flim	Flim-1/yr	2018	0.488
ERlim	-	-	-

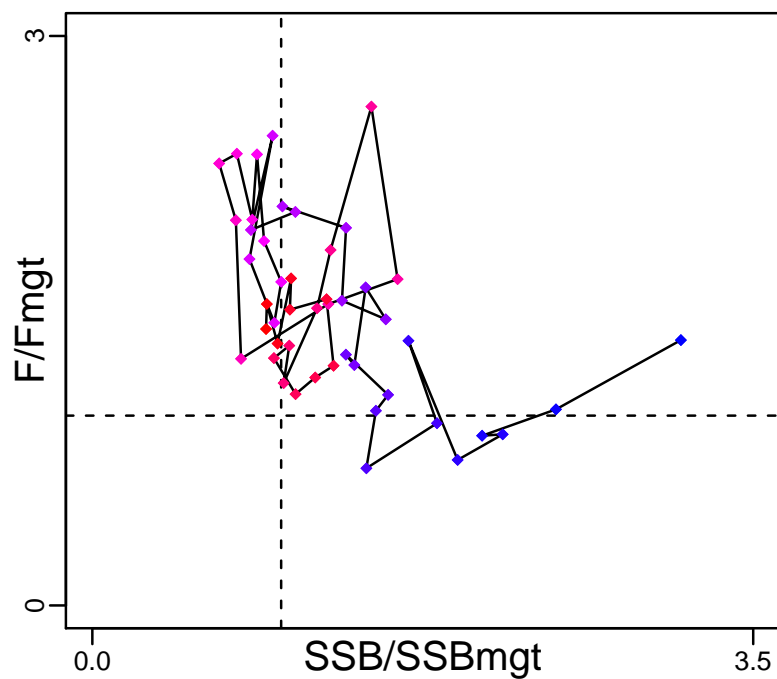
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	4690	Both	-
SSB	SSB-MT	2018	2570	Both	-
TN	-	-	-	-	-
R	R-E00	2018	4,820,000	-	1
F	F-1/yr	2018	0.399	-	4 to 8
ER	ER-calc-ratio	2018	0.182	-	-
TC	TC-MT	2018	818		
TL	TL-MT	2018	776		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.456		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.069		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.456		
ER/ERmgt	-	-	-		

Common sole Celtic Sea [SOLECS]

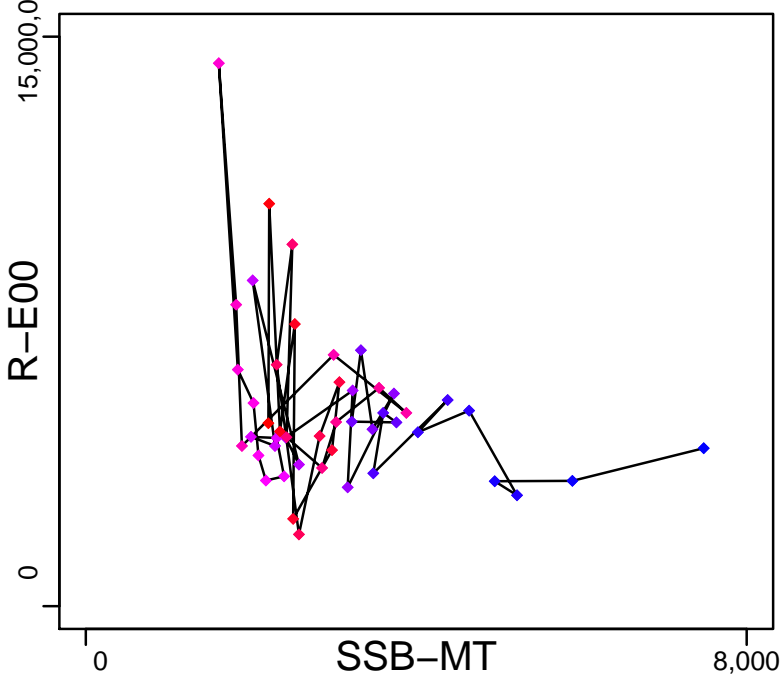
Kobe MSYpref (1970–2018–ICESIMP2018)



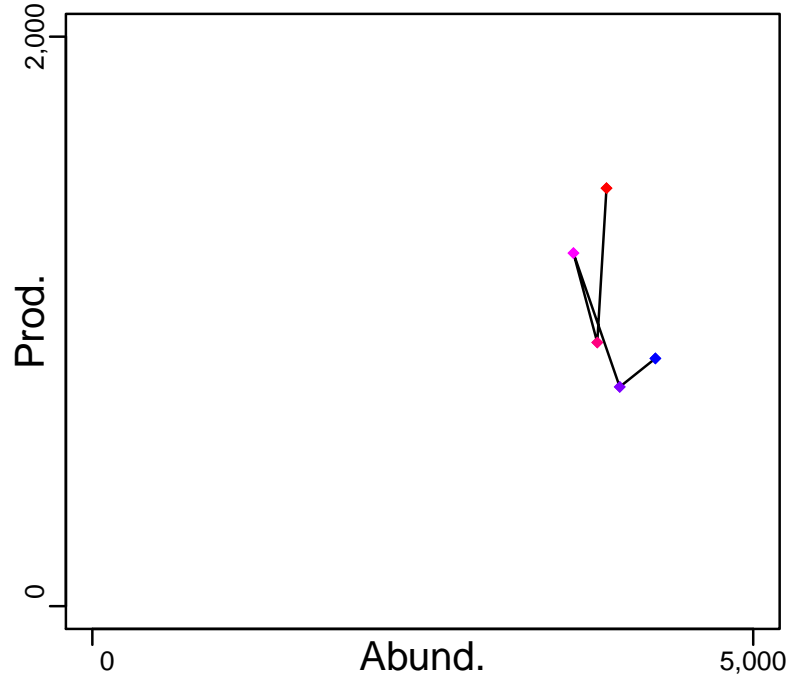
Kobe MGTpref (1970–2018–ICESIMP2018)



Spawner Recruit (1970–2018–ICESIMP2018)



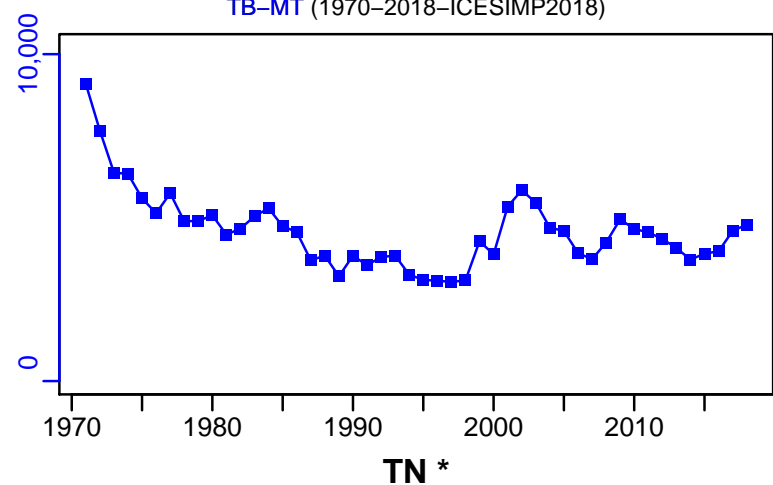
Production (1970–2018–ICESIMP2018)



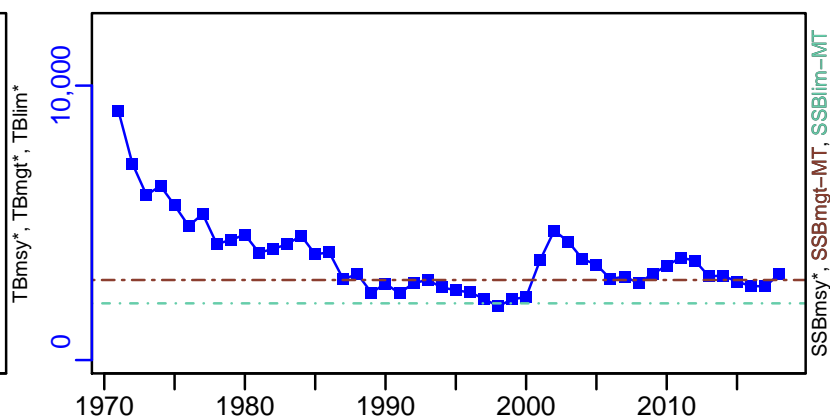
◆ Start Year ◆ End Year * No Data

Common sole Celtic Sea [SOLECS]

TB-MT (1970–2018–ICESIMP2018)



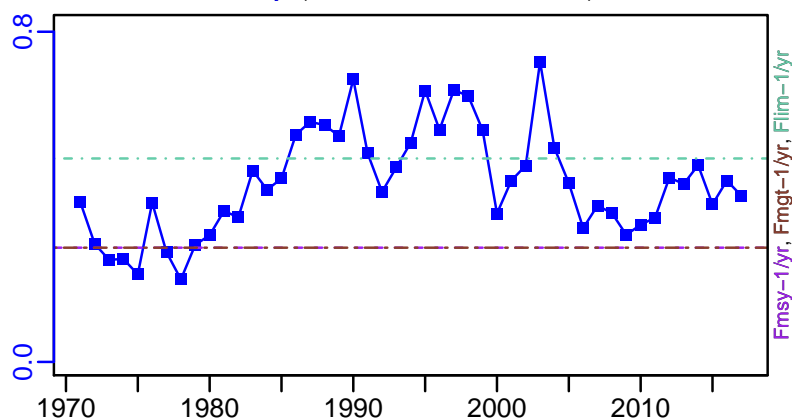
SSB-MT (1970–2018–ICESIMP2018)



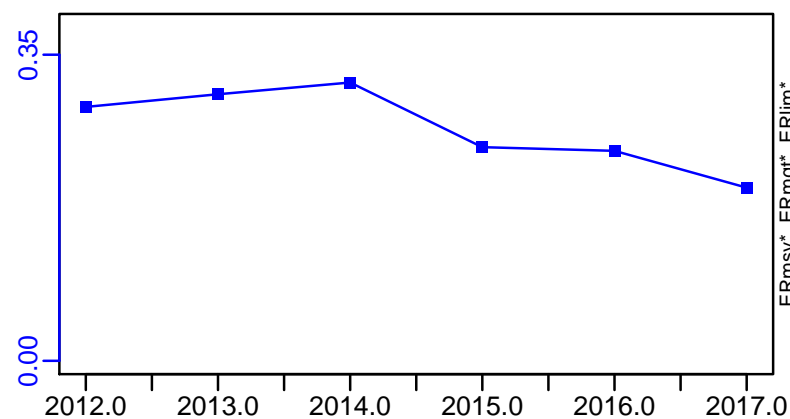
TN *



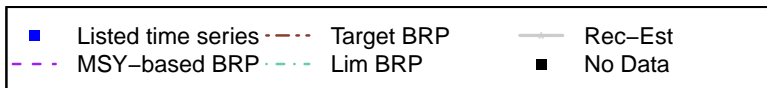
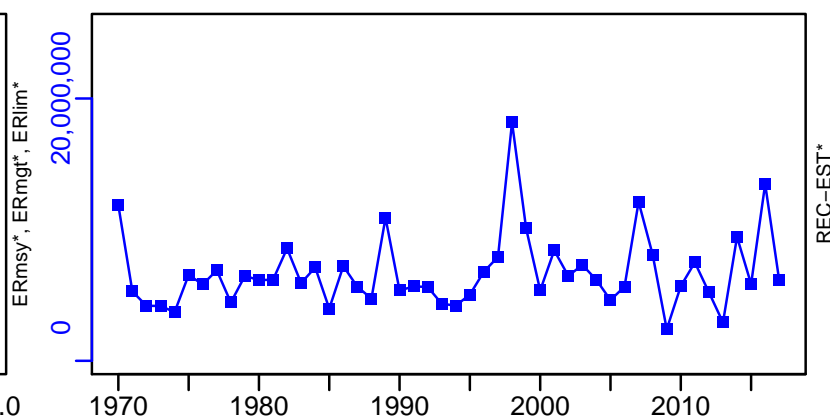
F-1/yr (1970–2018–ICESIMP2018)



ER-calc-ratio (1970–2018–ICESIMP2018)

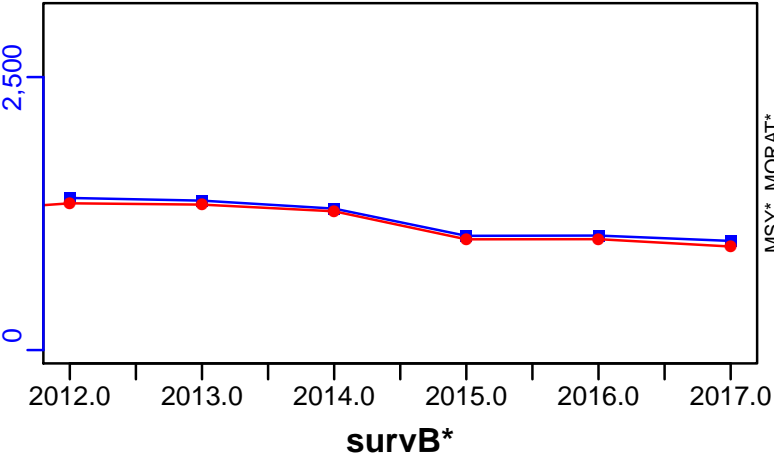


R-E00 (1970–2018–ICESIMP2018)

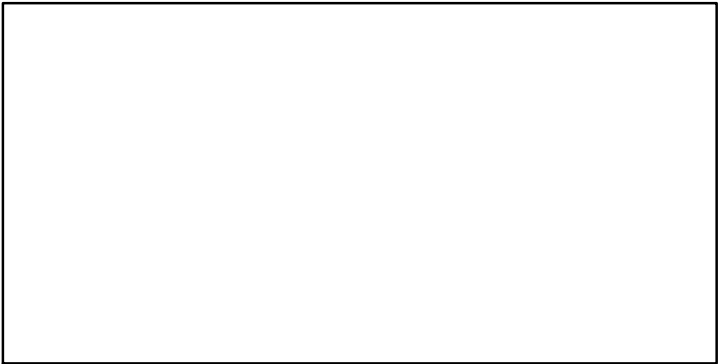


Common sole Celtic Sea [SOLECS]

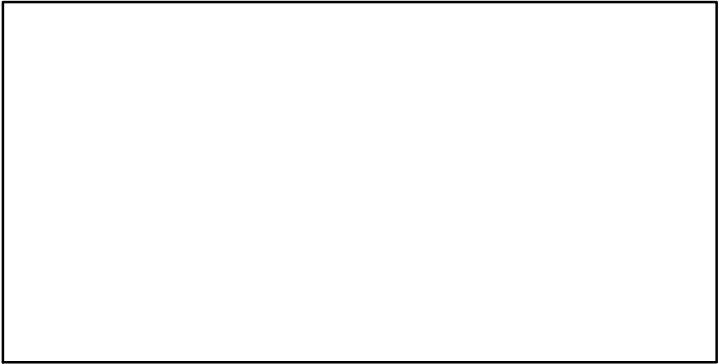
TC-MT, TL-MT, RecC* (1970-2018-ICESIMP2018)



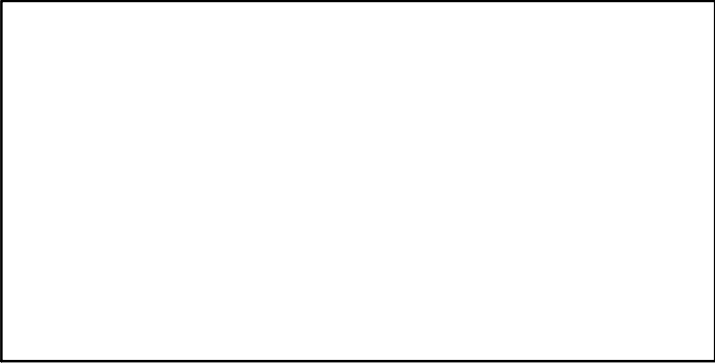
TAC*, Cpair*, Cadv*



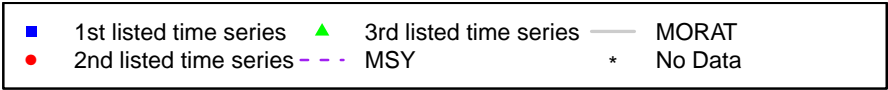
CPUE*



EFFORT*



CdivMSY*



Common sole 22-24-IIIa [SOLEIIIa-2224]

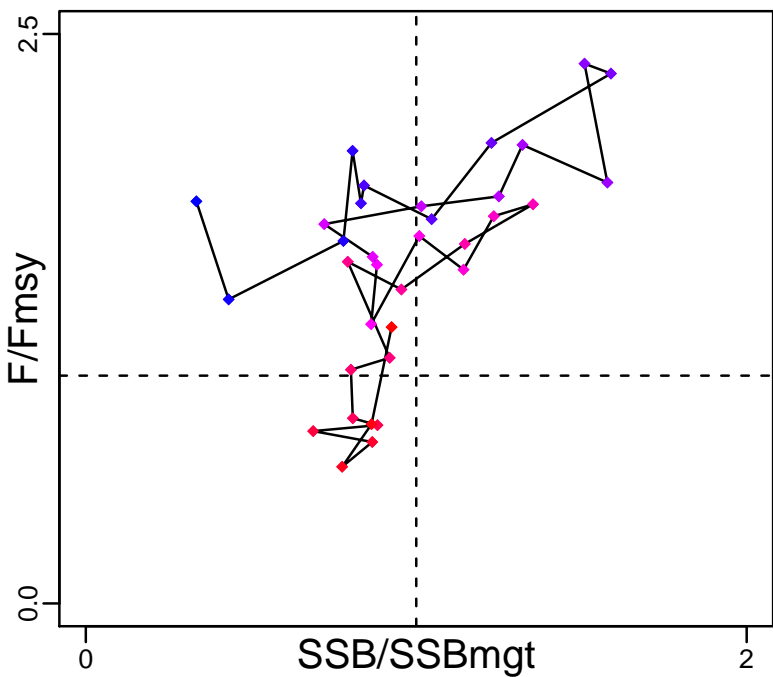
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBFAS-SOLEIIIa-2224-1983-2018-ICESIMP2018
Area	22-24-IIIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

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

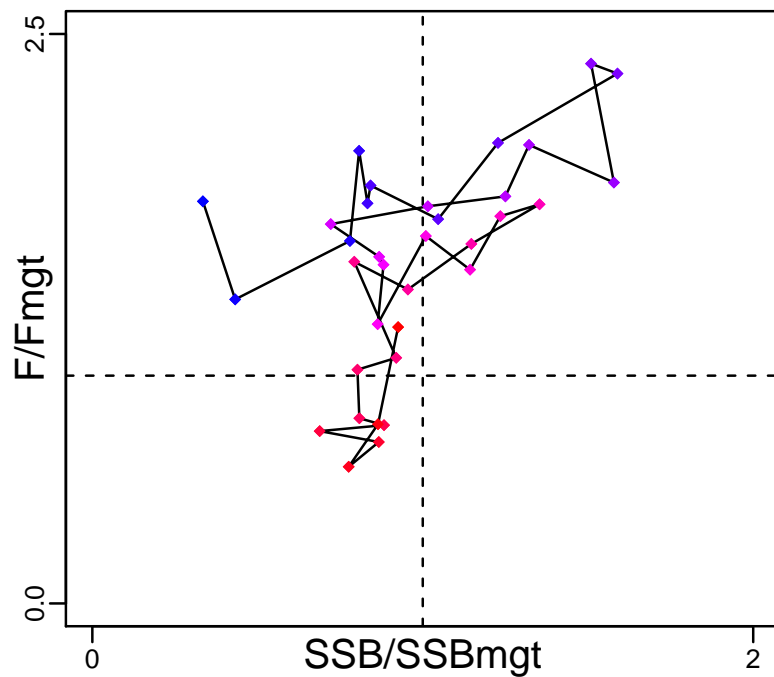
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	3460	Both	-
SSB	SSB-MT	2018	2690	Both	-
TN	-	-	-	-	-
R	R-E00	2018	2,310,000	-	1
F	F-1/yr	2018	0.279	-	4 to 8
ER	ER-calc-ratio	2018	0.15	-	-
TC	TC-MT	2011	538		
TL	TL-MT	2018	520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.213		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.036		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.213		
ER/ERmgt	-	-	-		

Common sole 22–24–IIIa [SOLEIIIa–2224]

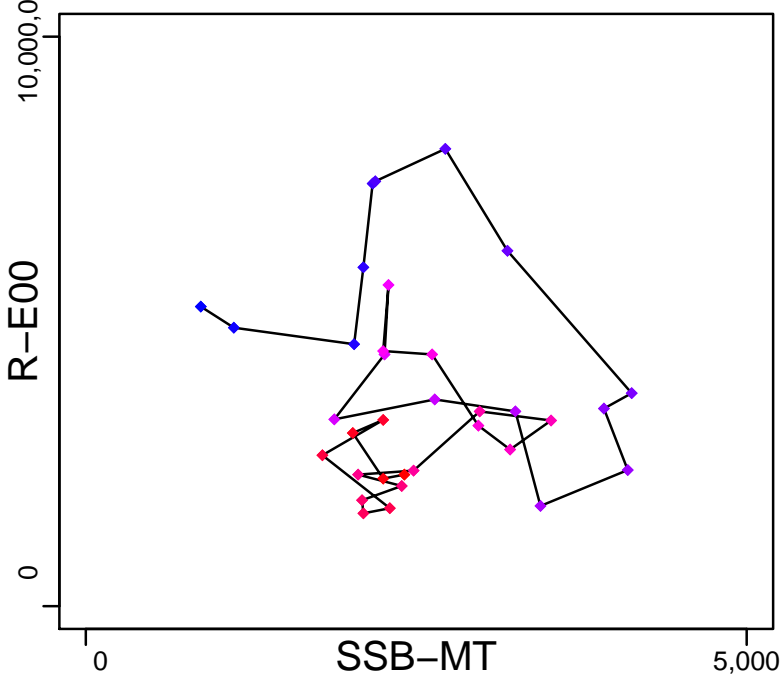
Kobe MSYpref (1983–2018–ICESIMP2018)



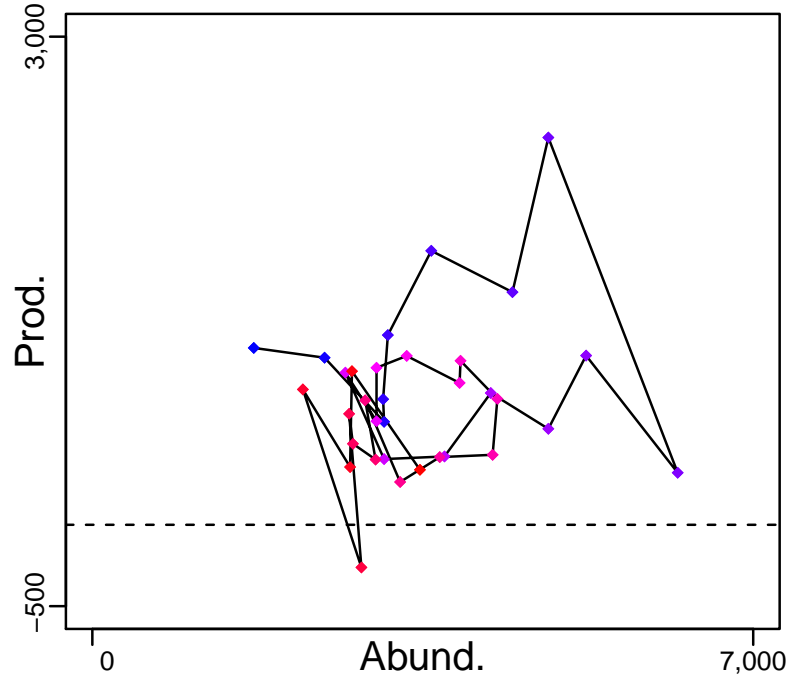
Kobe MGTpref (1983–2018–ICESIMP2018)



Spawner Recruit (1983–2018–ICESIMP2018)



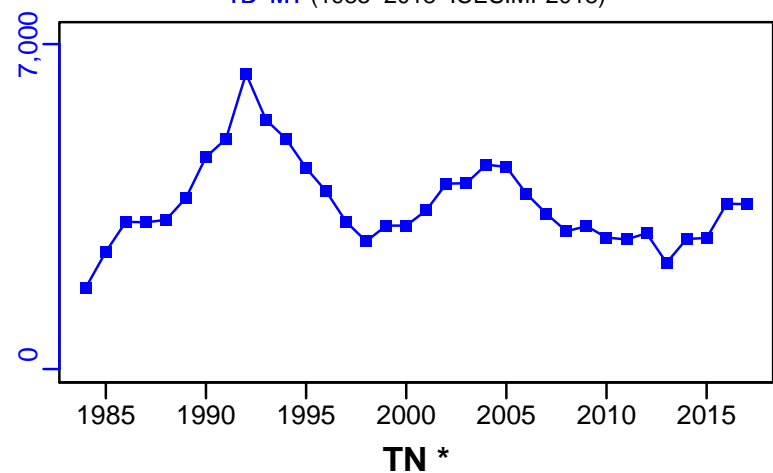
Production (1983–2018–ICESIMP2018)



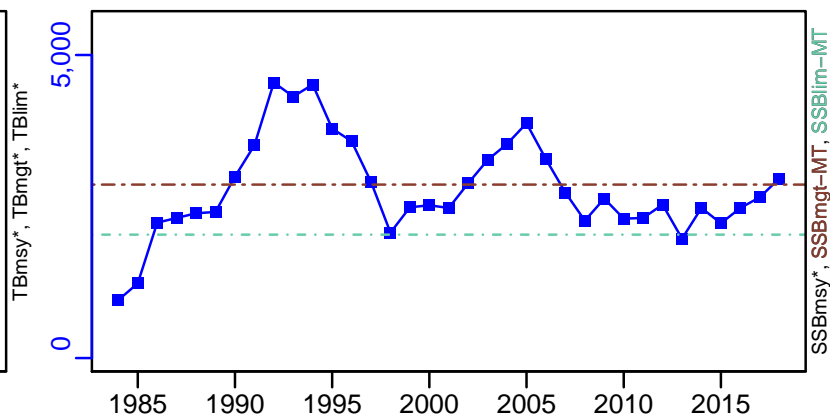
◆ Start Year ◆ End Year * No Data

Common sole 22–24–IIIa [SOLEIIIa–2224]

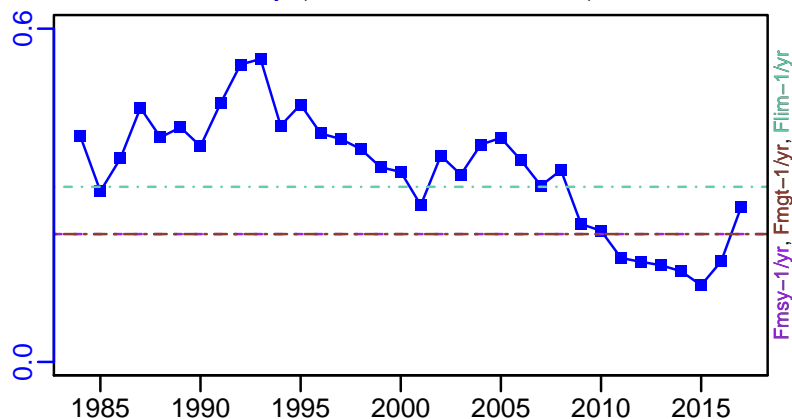
TB–MT (1983–2018–ICESIMP2018)



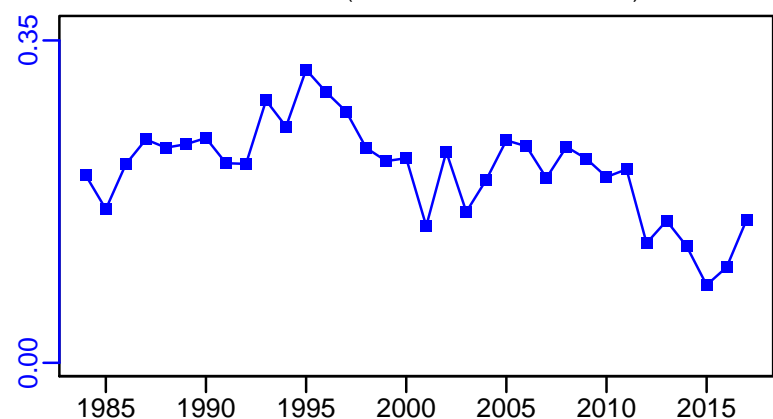
SSB–MT (1983–2018–ICESIMP2018)



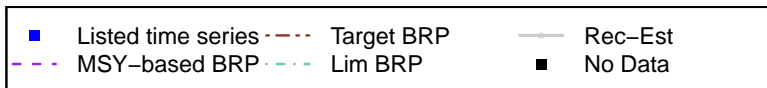
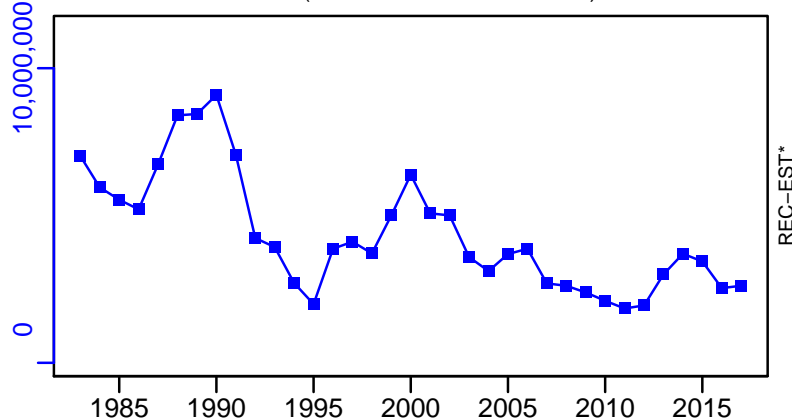
F–1/yr (1983–2018–ICESIMP2018)



ER–calc–ratio (1983–2018–ICESIMP2018)

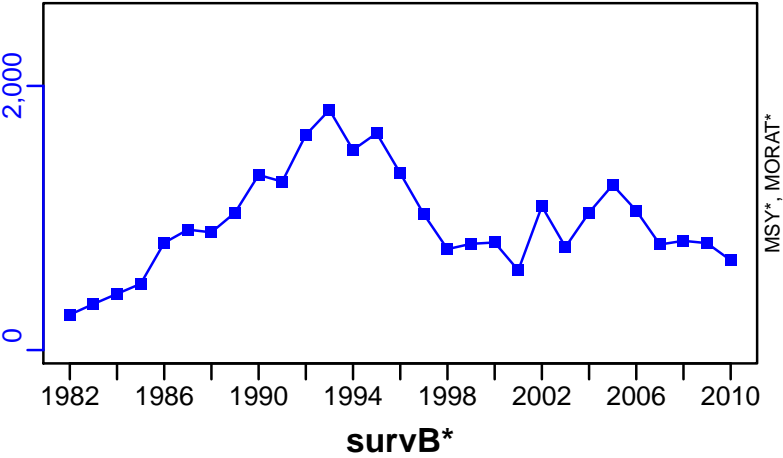


R–E00 (1983–2018–ICESIMP2018)

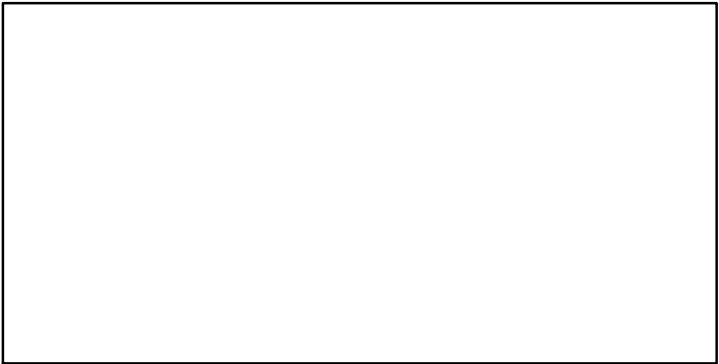


Common sole 22–24–IIIa [SOLEIIIa–2224]

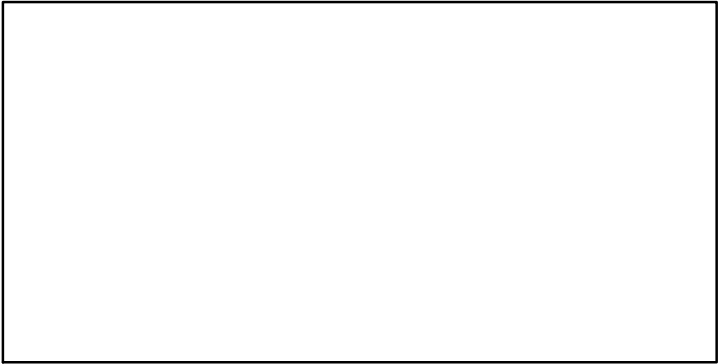
TC–MT, TL*, RecC* (1982–2011–NEUBAUER)



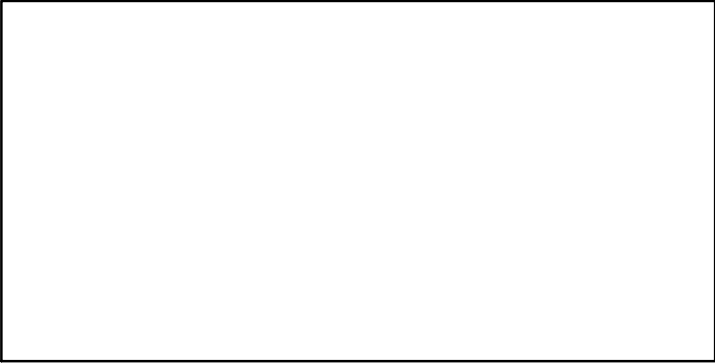
TAC*, Cpair*, Cadv*



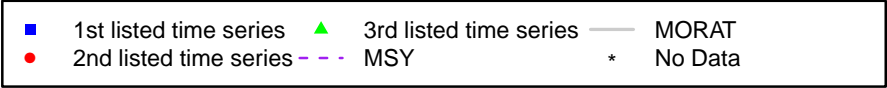
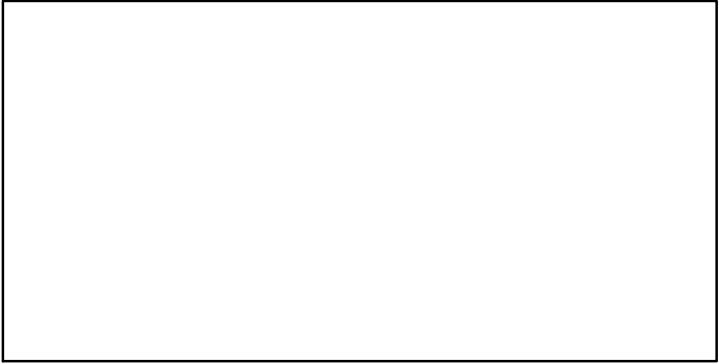
CPUE*



EFFORT*



CdivMSY*



Common sole Irish Sea [SOLEIS]

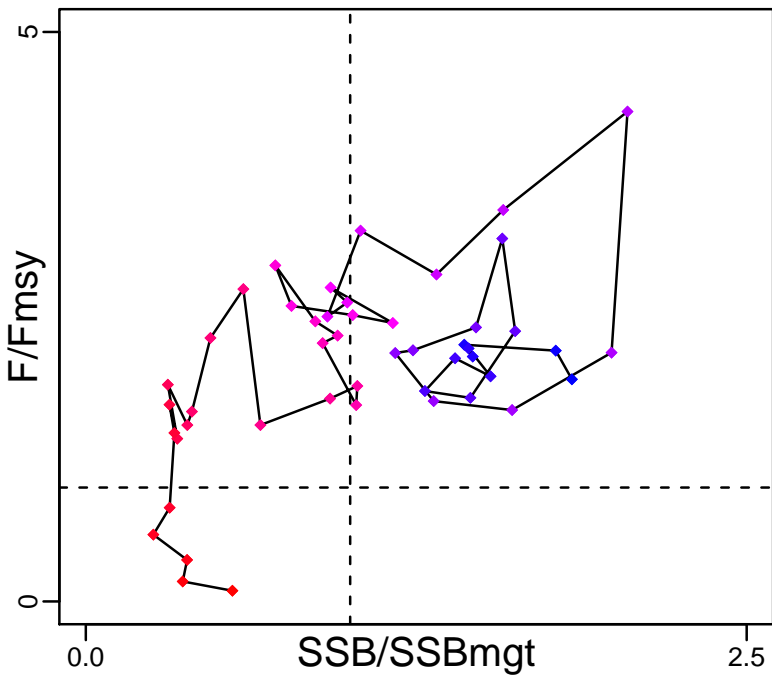
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEIS-1968-2018-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	3500
Fmgt	Fmgt-1/yr	2018	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	TBlim-MT	2011	2200
SSBlim	SSBlim-MT	2018	2500
Flim	Flim-1/yr	2018	0.29
ERlim	-	-	-

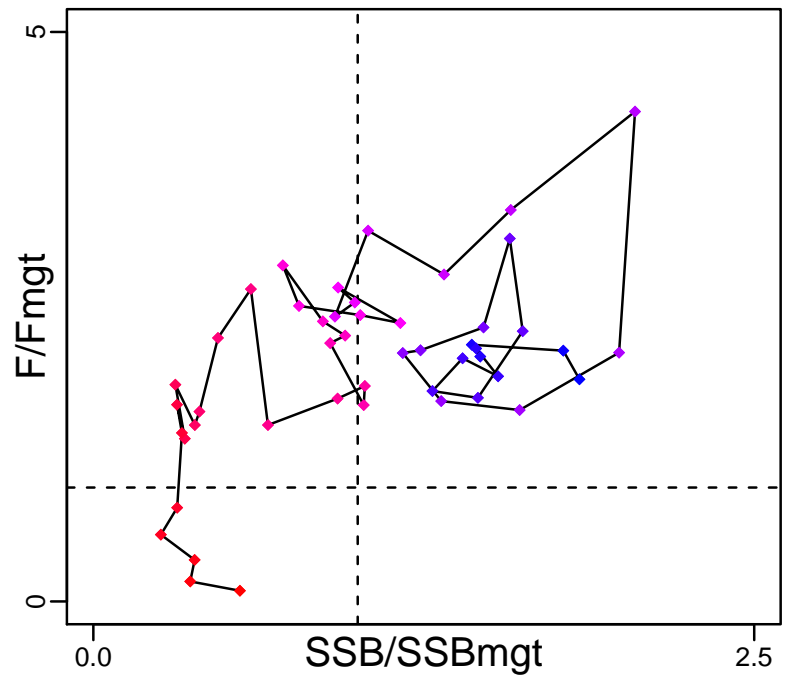
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	2570	Both	-
SSB	SSB-MT	2018	2340	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1,400,000	-	2
F	F-1/yr	2018	0.019	-	4 to 7
ER	ER-calc-ratio	2018	0.015	-	-
TC	TC-MT	2018	36		
TL	TL-MT	2018	34		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.094		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.667		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.094		
ER/ERmgt	-	-	-		

Common sole Irish Sea [SOLEIS]

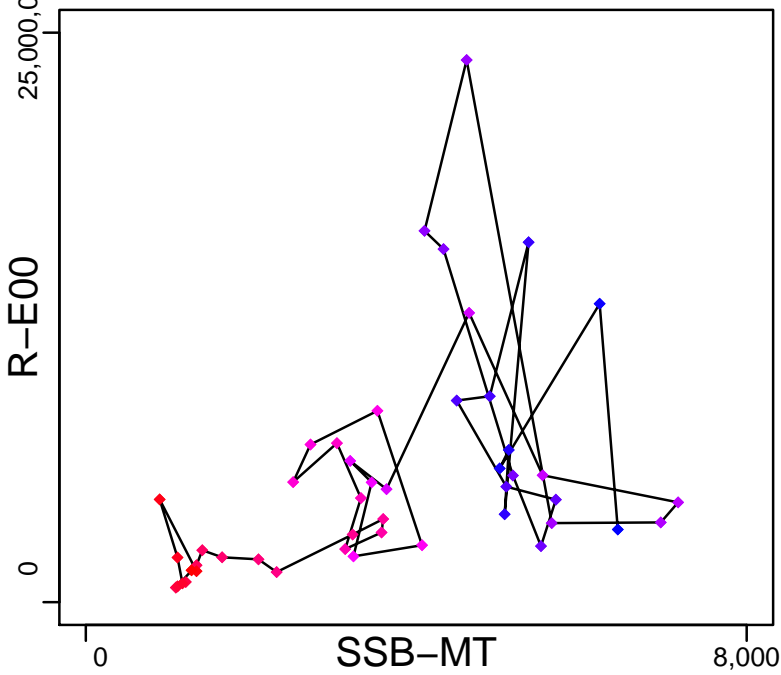
Kobe MSYpref (1968–2018–ICESIMP2018)



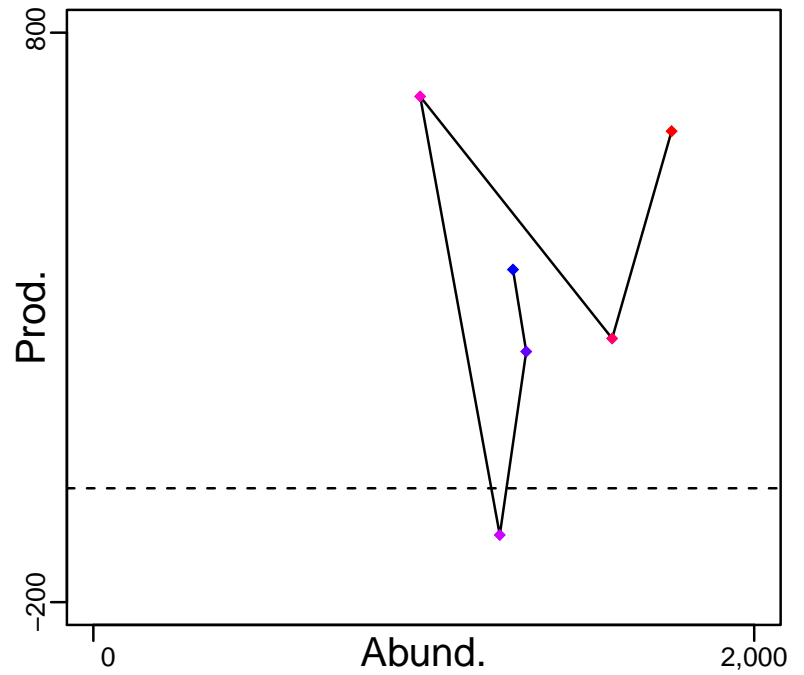
Kobe MGTpref (1968–2018–ICESIMP2018)



Spawner Recruit (1968–2018–ICESIMP2018)



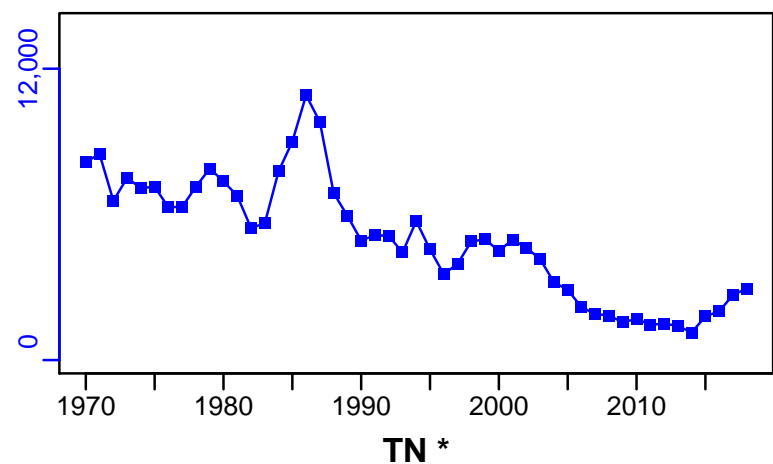
Production (1968–2018–ICESIMP2018)



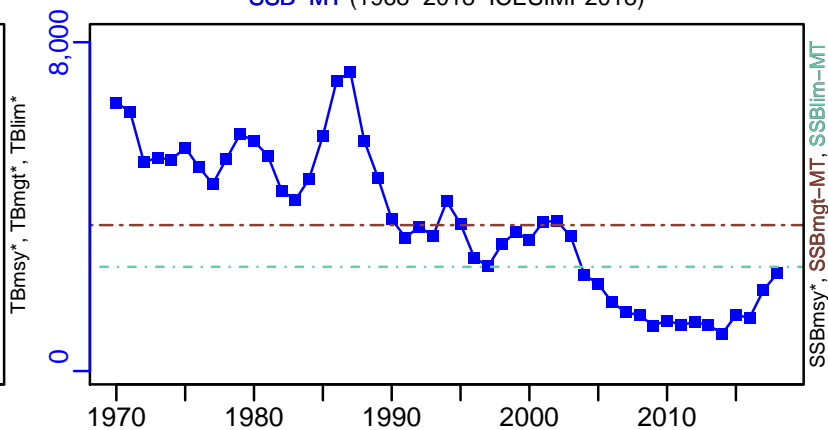
◆ Start Year ◆ End Year * No Data

Common sole Irish Sea [SOLEIS]

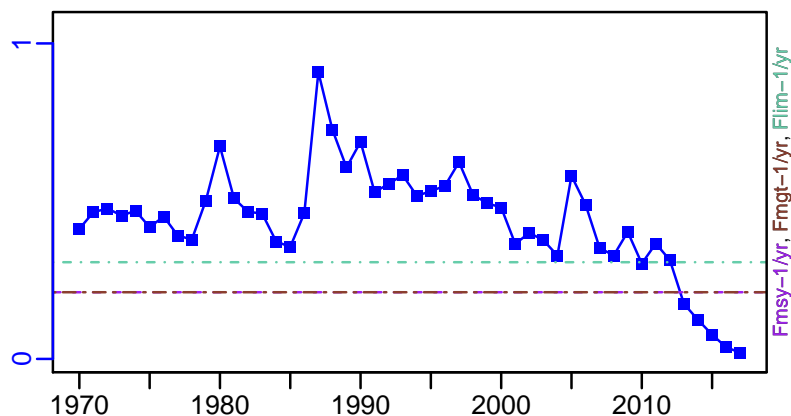
TB-MT (1968–2018–ICESIMP2018)



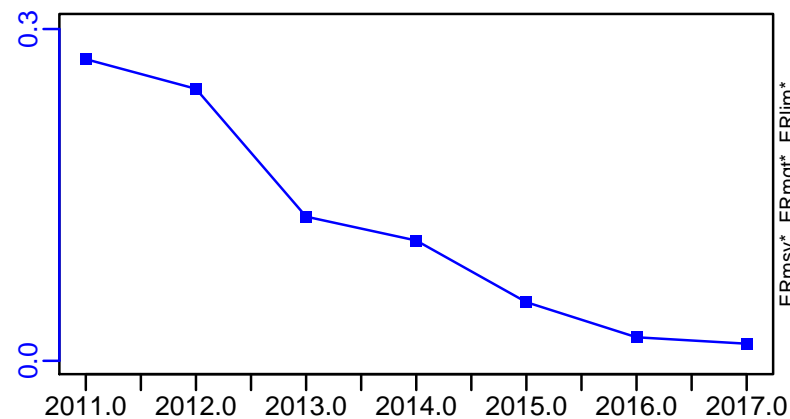
SSB-MT (1968–2018–ICESIMP2018)



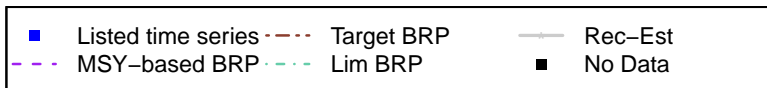
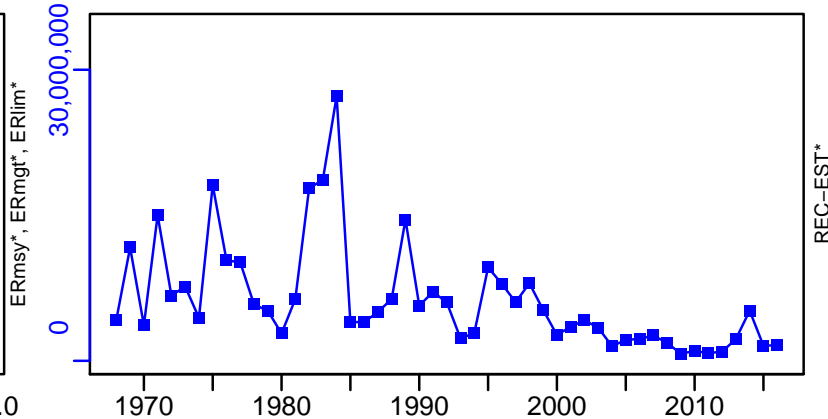
F-1/yr (1968–2018–ICESIMP2018)



ER-calc-ratio (1968–2018–ICESIMP2018)

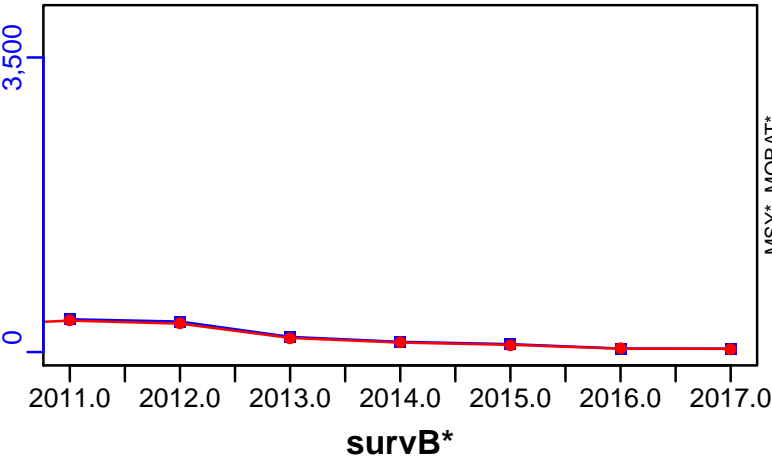


R-E00 (1968–2018–ICESIMP2018)



Common sole Irish Sea [SOLEIS]

TC-MT, TL-MT, RecC* (1968–2018–ICESIMP2018)



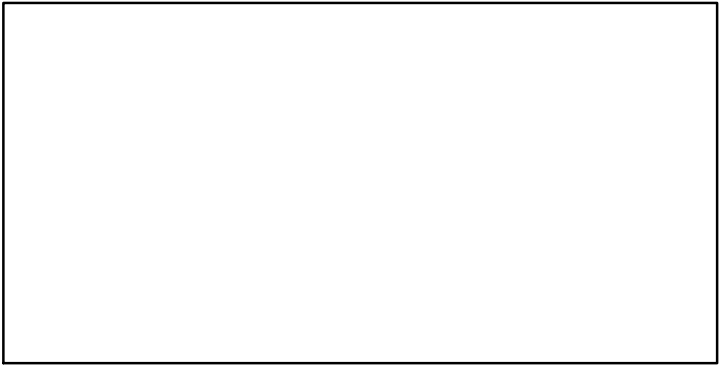
TAC*, Cpair*, Cadv*



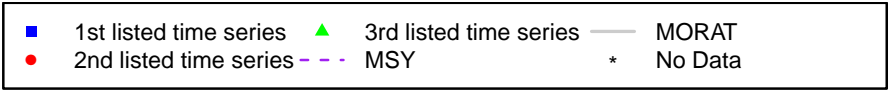
CPUE*



EFFORT*



CdivMSY*



Common sole North Sea [SOLENS]

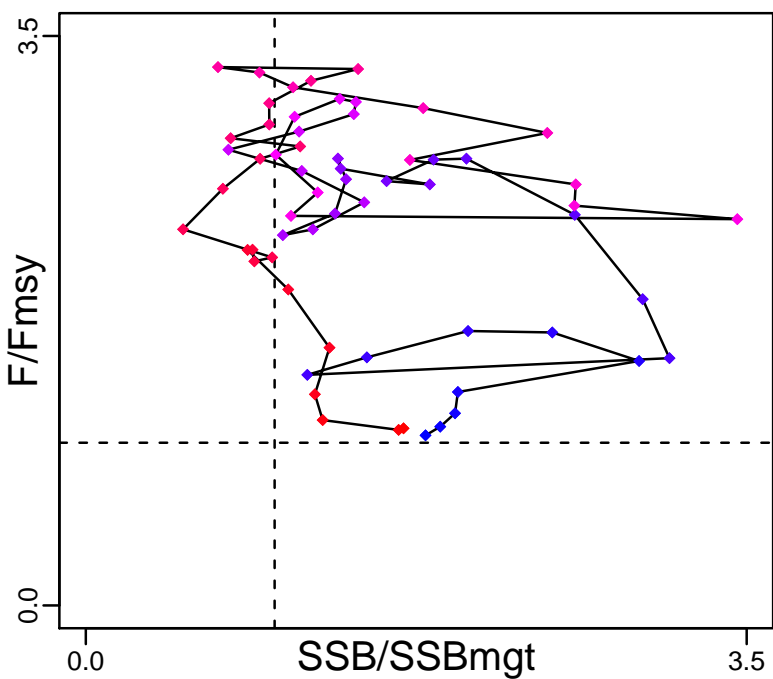
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLENS-1956-2018-ICESIMP2018
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	35,000
Fmgt	Fmgt-1/yr	2018	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	TBlim-MT	2010	25,000
SSBlim	SSBlim-MT	2018	26,300
Flim	Flim-1/yr	2018	0.62
ERlim	-	-	-

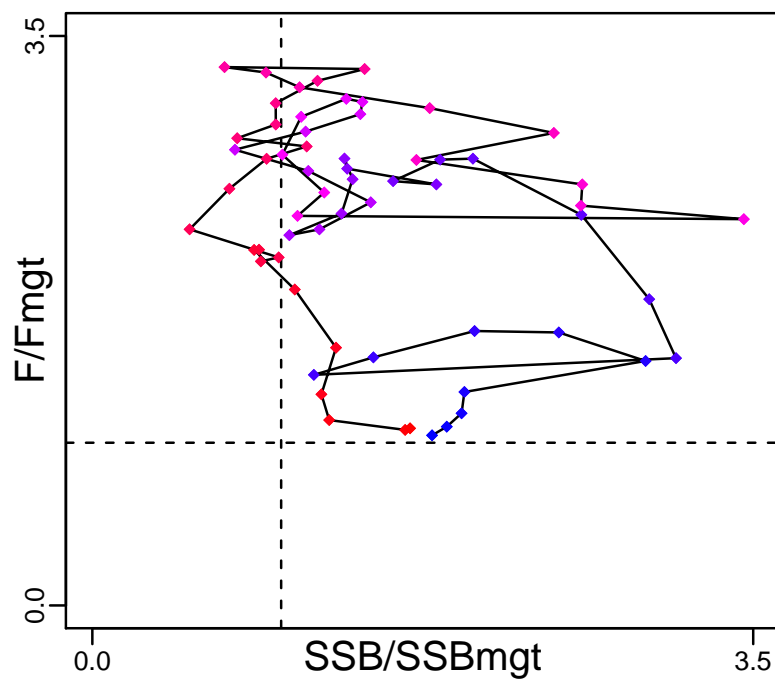
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	64,800	Both	-
SSB	SSB-MT	2018	58,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.09×10^8	-	1
F	F-1/yr	2018	0.218	-	2 to 6
ER	ER-calc-ratio	2018	0.191	-	-
TC	TC-MT	2017	15,400		
TL	TL-MT	2018	12,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.089		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.657		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.089		
ER/ERmgt	-	-	-		

Common sole North Sea [SOLENS]

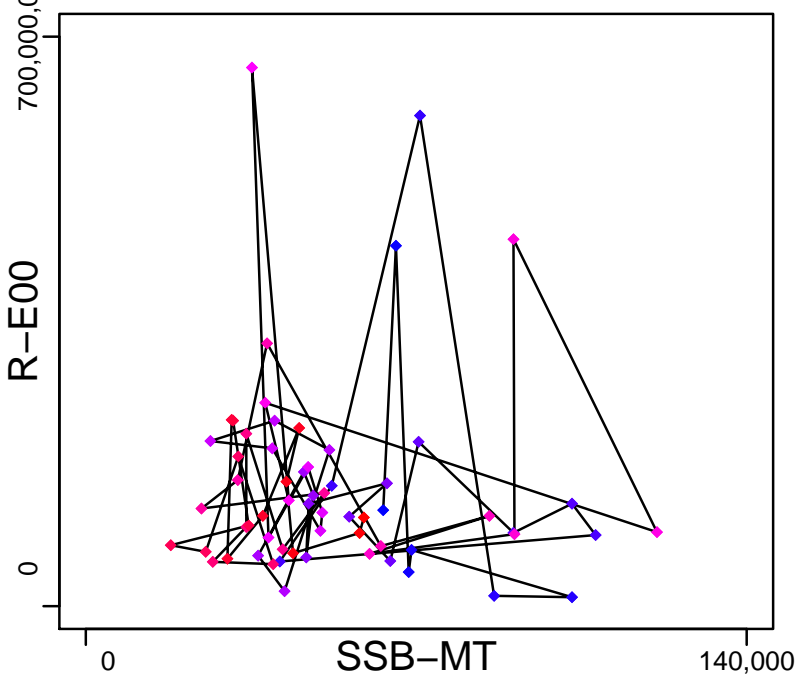
Kobe MSYpref (1956–2018–ICESIMP2018)



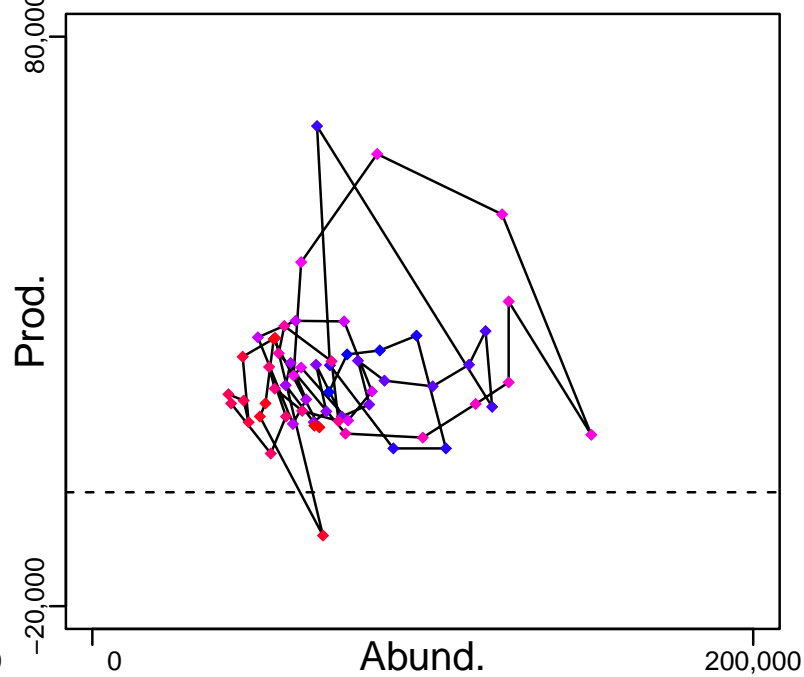
Kobe MGTpref (1956–2018–ICESIMP2018)



Spawner Recruit (1956–2018–ICESIMP2018)



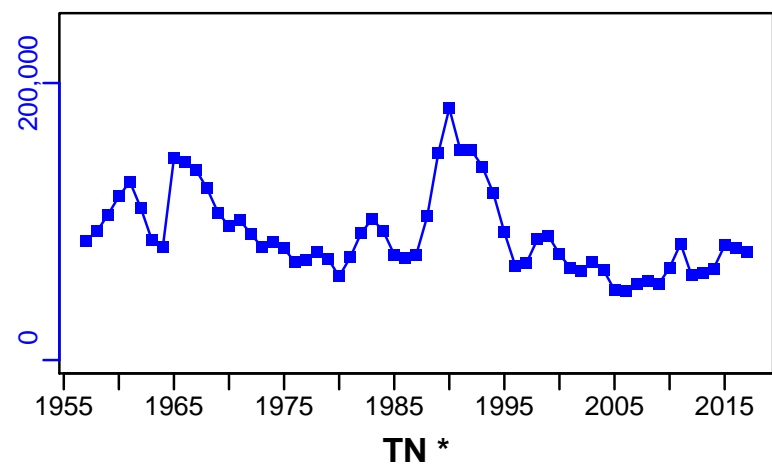
Production (1956–2018–ICESIMP2018)



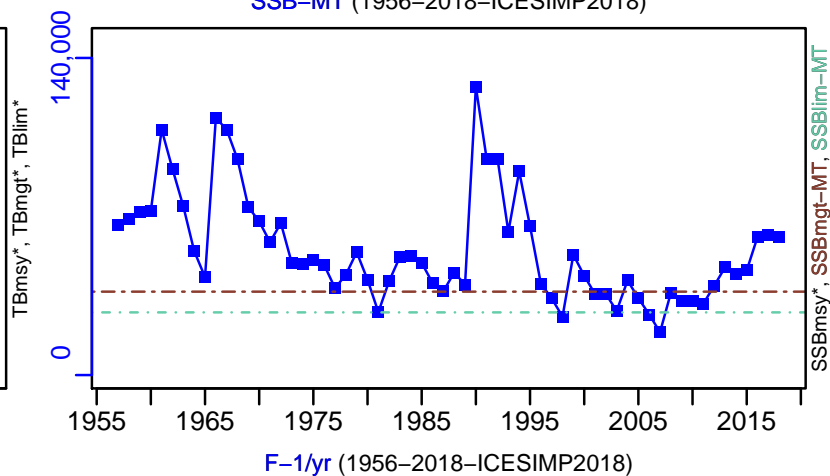
◆ Start Year ◆ End Year * No Data

Common sole North Sea [SOLENS]

TB-MT (1956–2018–ICESIMP2018)



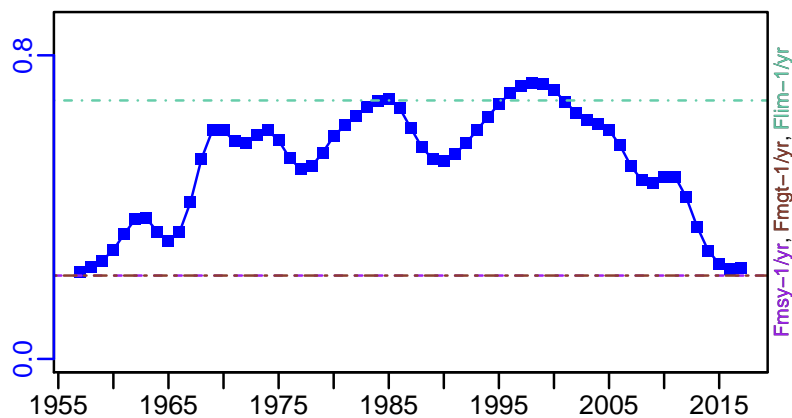
SSB-MT (1956–2018–ICESIMP2018)



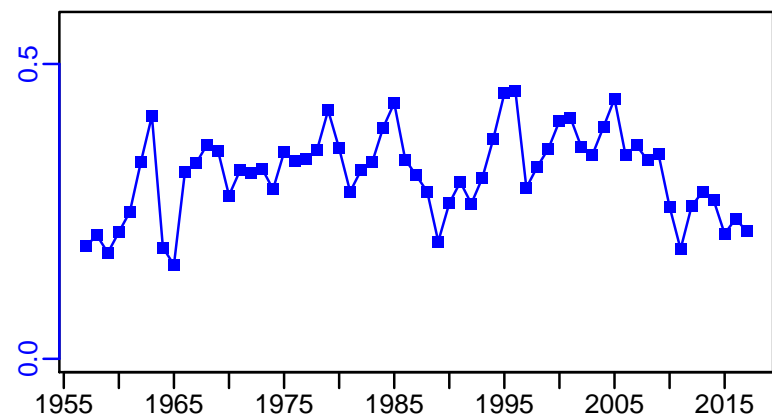
TN *



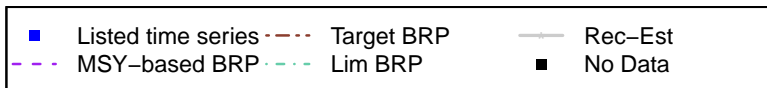
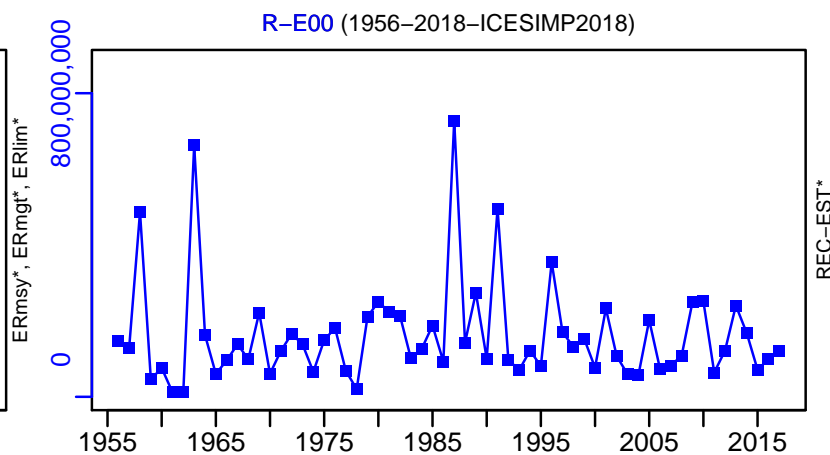
F-1/yr (1956–2018–ICESIMP2018)



ER-calc-ratio (1956–2018–ICESIMP2018)



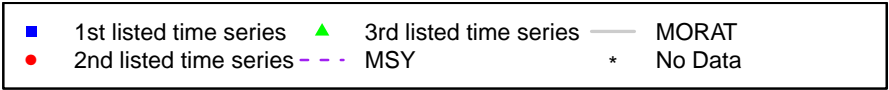
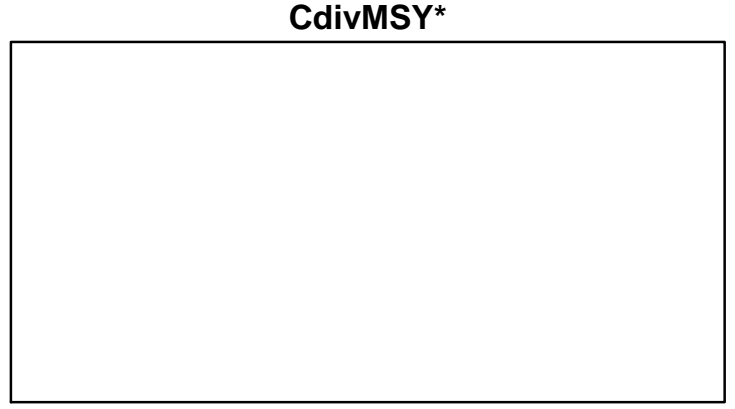
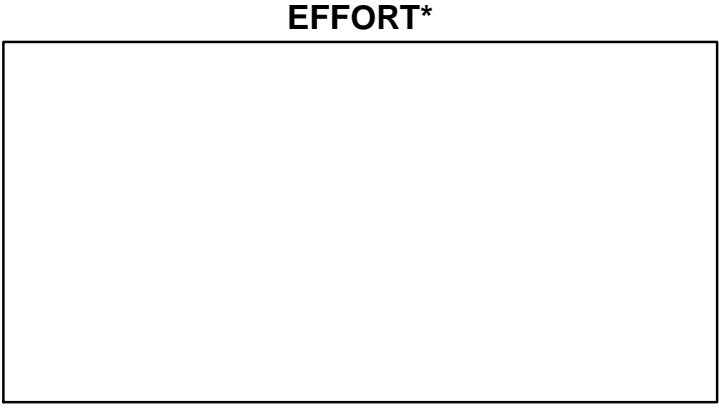
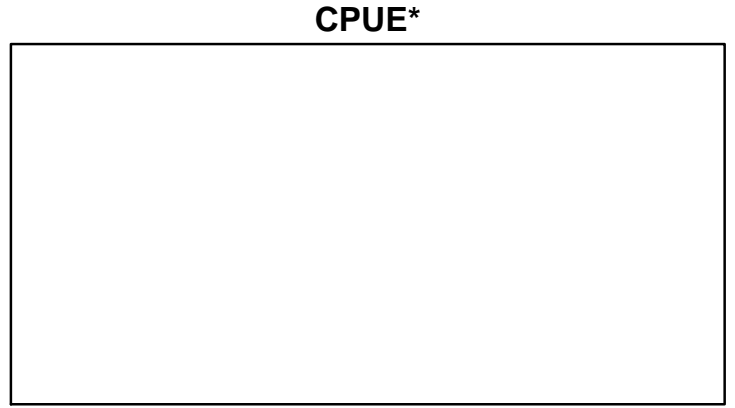
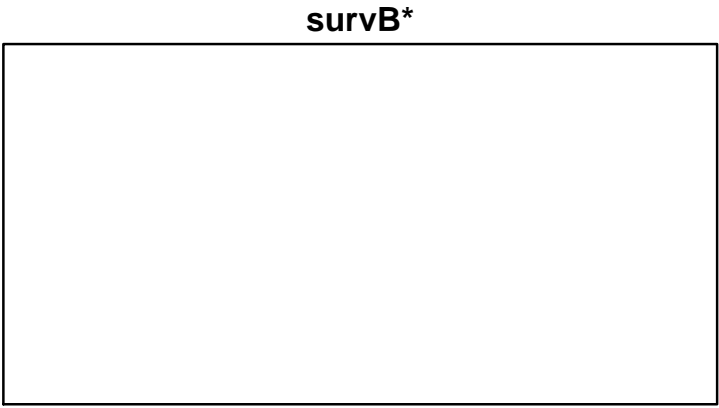
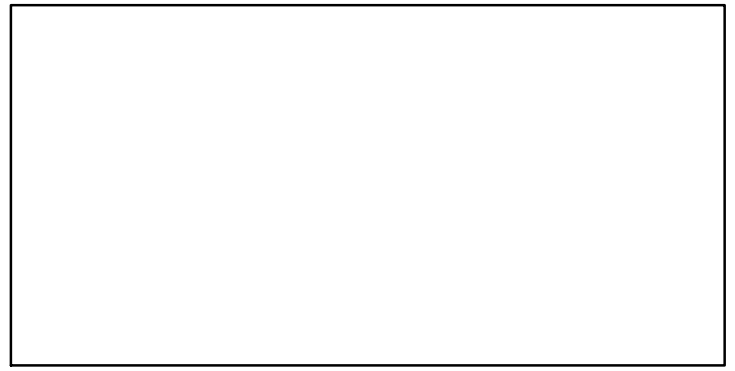
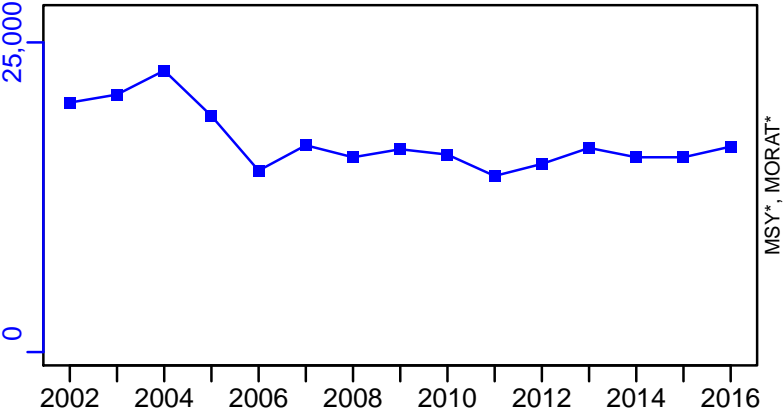
R-E00 (1956–2018–ICESIMP2018)



Common sole North Sea [SOLENS]

TC-MT, TL*, RecC* (1956–2017–ICESIMP2018)

TAC*, Cpair*, Cadv*



Common sole VIIbc [SOLEVIIbc]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIbc-1908-2016-ICESIMP2018
Area	VIIbc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	43		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

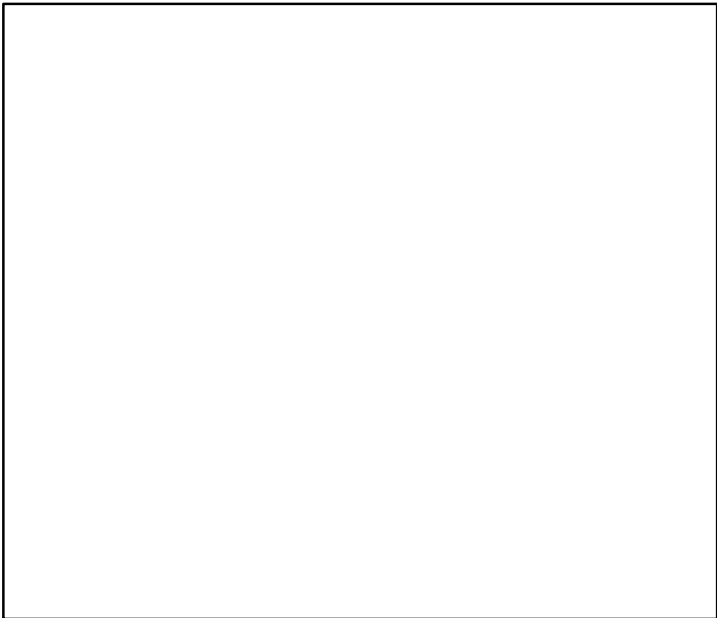
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

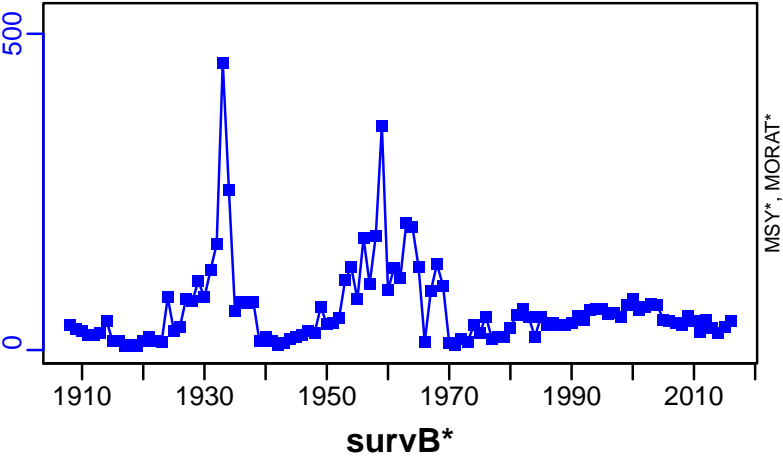


Recruits*

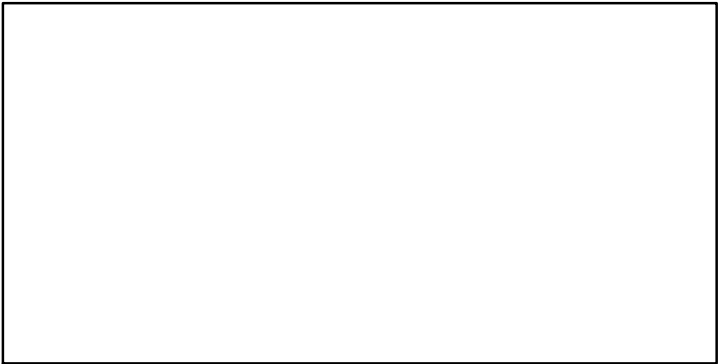


Common sole VIIbc [SOLEVIIbc]

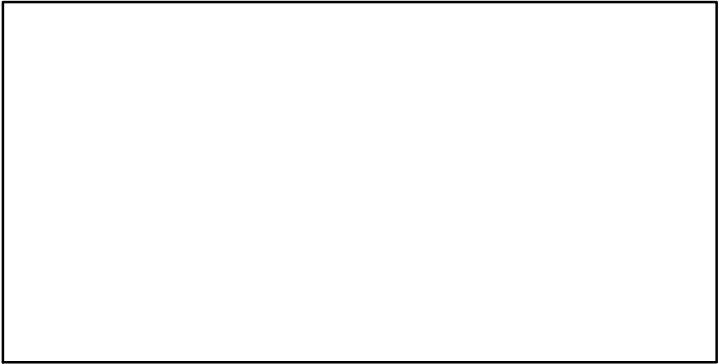
TL-MT, TC*, RecC* (1908–2016–ICESIMP2018)



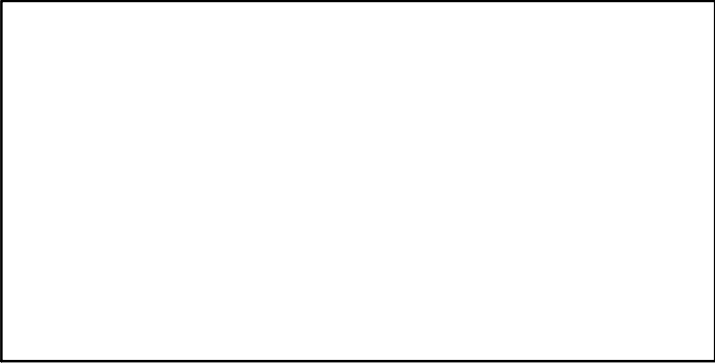
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Common sole ICES VIId [SOLEVIId]

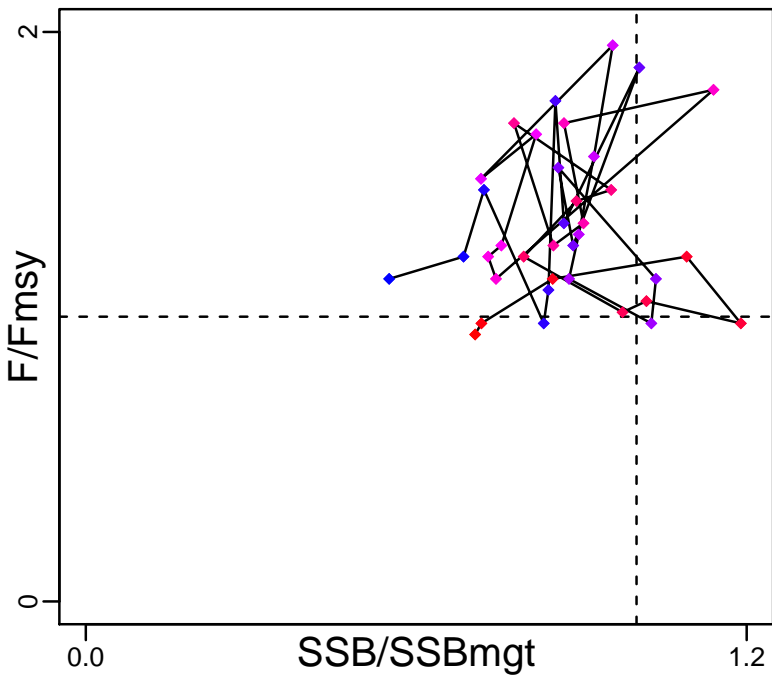
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLEVIId-1981-2018-ICESIMP2018
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.256
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	19,251
Fmgt	Fmgt-1/yr	2018	0.256
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	13,751
Flim	Flim-1/yr	2018	0.359
ERlim	-	-	-

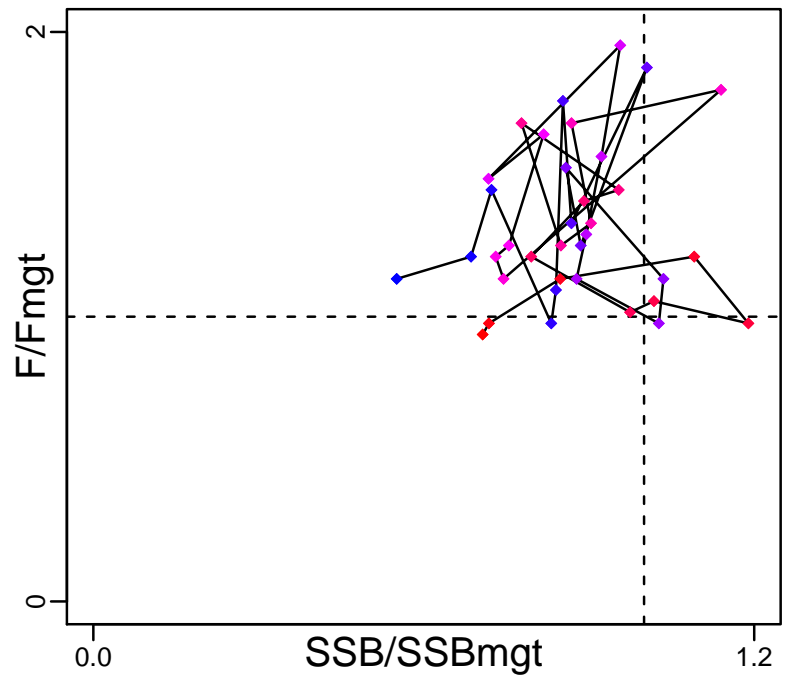
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	17,300	Both	-
SSB	SSB-MT	2018	14,300	Both	-
TN	-	-	-	-	-
R	R-E00	2018	24,900,000	-	1
F	F-1/yr	2018	0.24	-	3 to 7
ER	ER-calc-ratio	2018	0.14	-	-
TC	TC-MT	2018	2430		
TL	TL-MT	2018	2230		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.938		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	0.743		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.938		
ER/ERmgt	-	-	-		

Common sole ICES VIld [SOLEVIld]

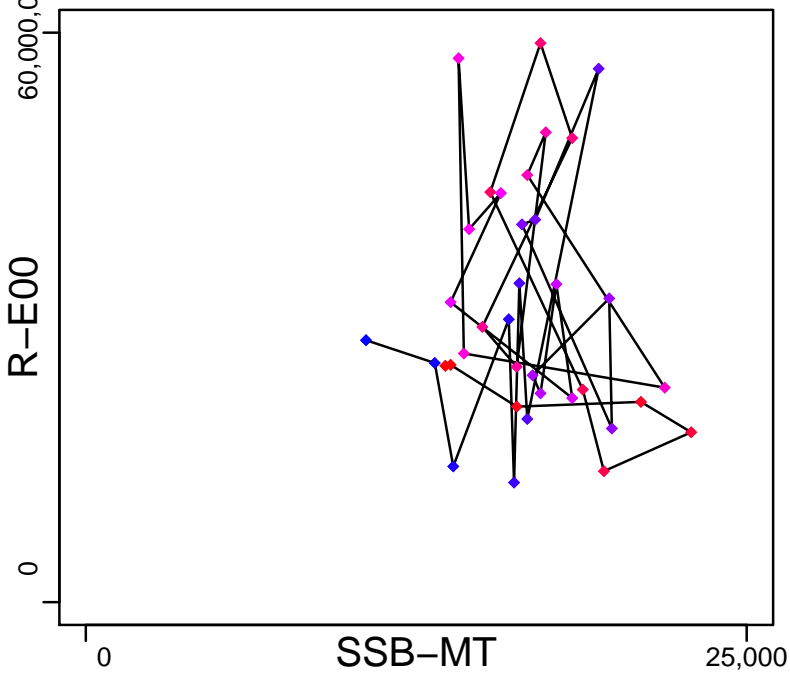
Kobe MSYpref (1981–2018–ICESIMP2018)



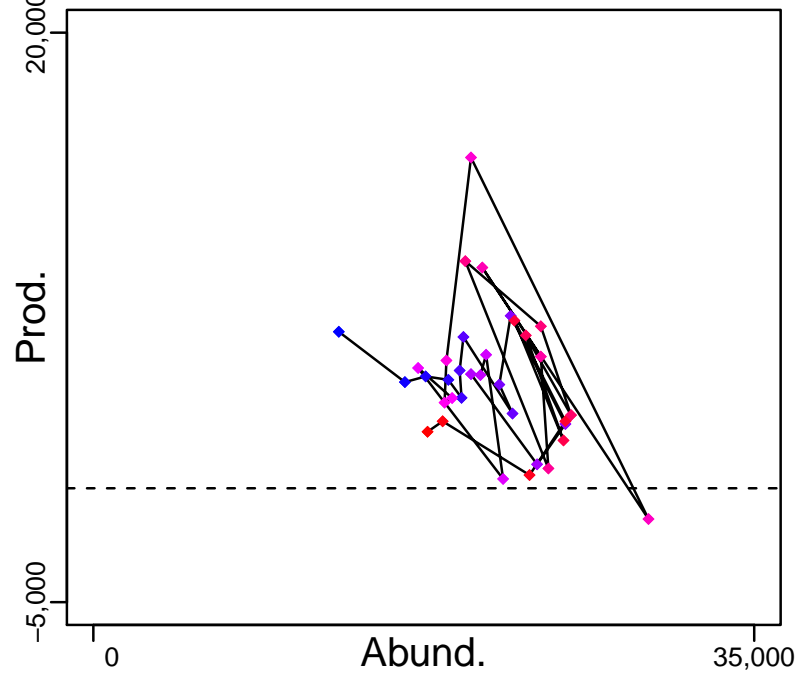
Kobe MGTpref (1981–2018–ICESIMP2018)



Spawner Recruit (1981–2018–ICESIMP2018)



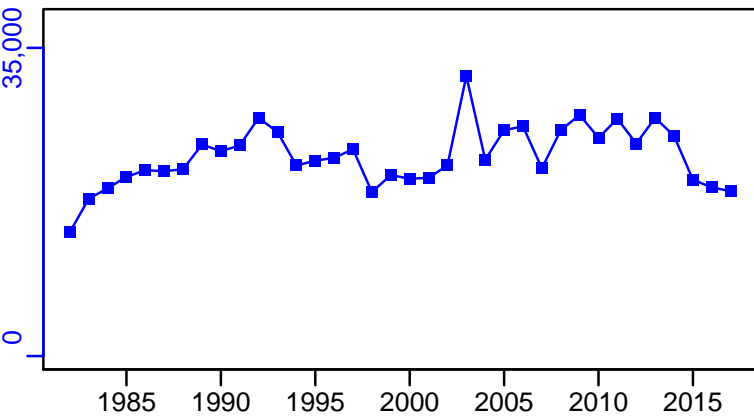
Production (1981–2018–ICESIMP2018)



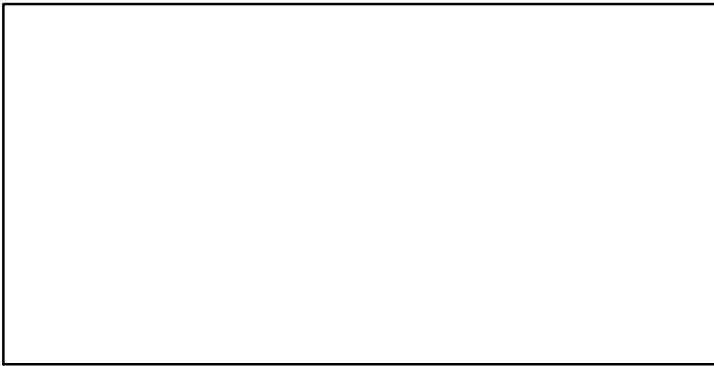
◆ Start Year ◆ End Year * No Data

Common sole ICES VIld [SOLEVIld]

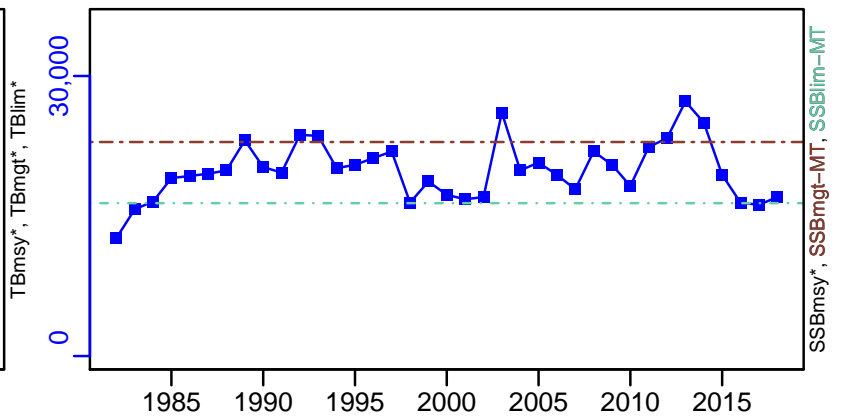
TB-MT (1981–2018–ICESIMP2018)



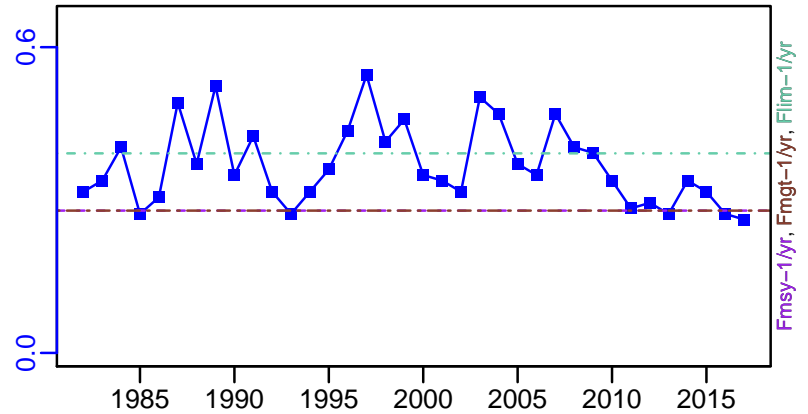
TN *



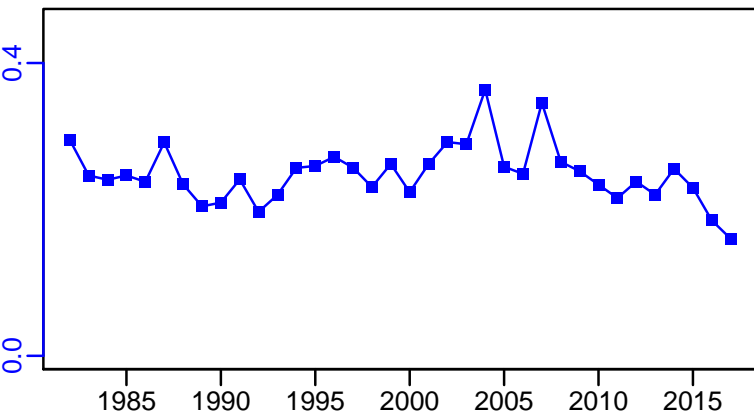
SSB-MT (1981–2018–ICESIMP2018)



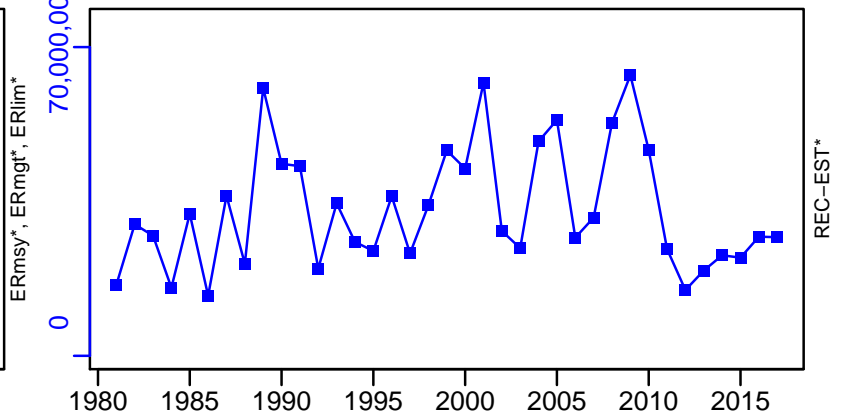
F-1/yr (1981–2018–ICESIMP2018)



ER-calc-ratio (1981–2018–ICESIMP2018)

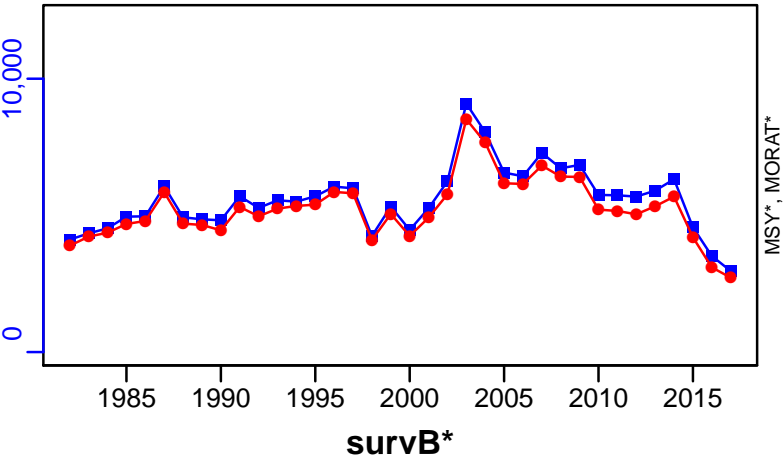


R-E00 (1981–2018–ICESIMP2018)



Common sole ICES VIId [SOLEVIId]

TC-MT, TL-MT, RecC* (1981-2018-ICESIMP2018)



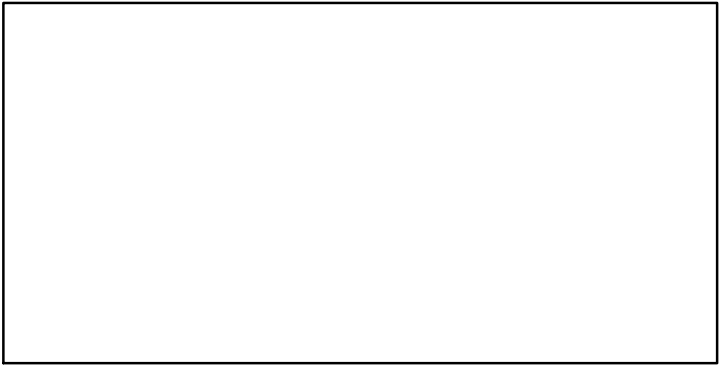
TAC*, Cpair*, Cadv*



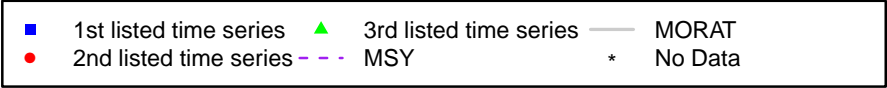
CPUE*



EFFORT*



CdivMSY*



Common sole Western English Channel [SOLEVIle]

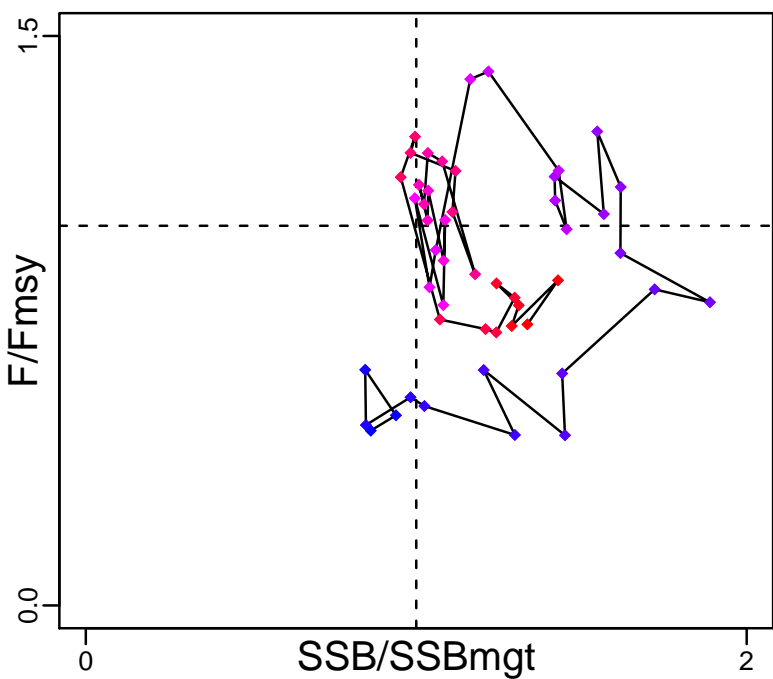
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIle-1967-2018-ICESIMP2018
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2017, 2018, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.291
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	2826
Fmgt	Fmgt-1/yr	2018	0.291
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	2039
Flim	Flim-1/yr	2018	0.44
ERlim	-	-	-

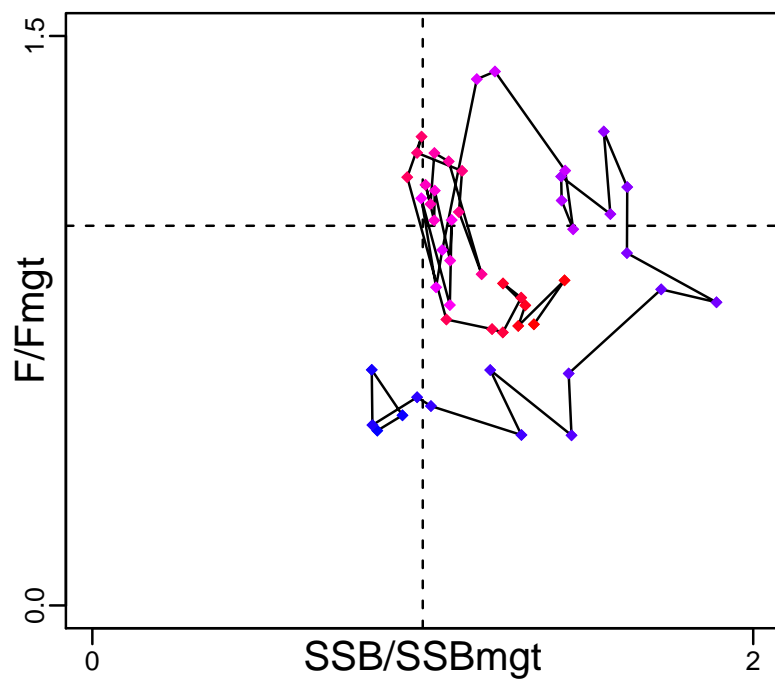
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	5270	Both	-
SSB	SSB-MT	2018	3970	Both	-
TN	-	-	-	-	-
R	R-E00	2018	3,880,000	-	2
F	F-1/yr	2018	0.215	-	3 to 9
ER	ER-calc-ratio	2018	0.191	-	-
TC	TC-MT	2017	924		
TL	TL-MT	2018	1010		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.74		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.406		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.74		
ER/ERmgt	-	-	-		

Common sole Western English Channel [SOLEVile]

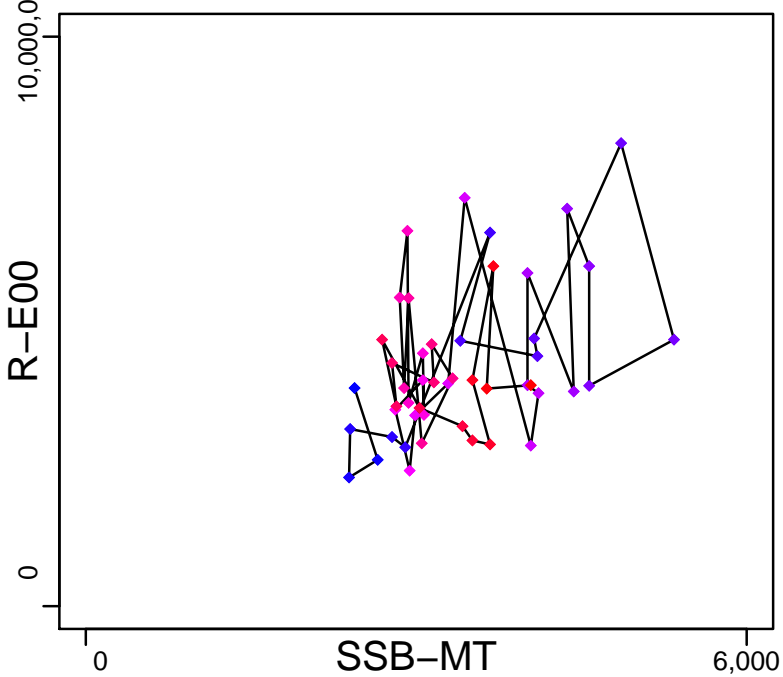
Kobe MSYpref (1967–2018–ICESIMP2018)



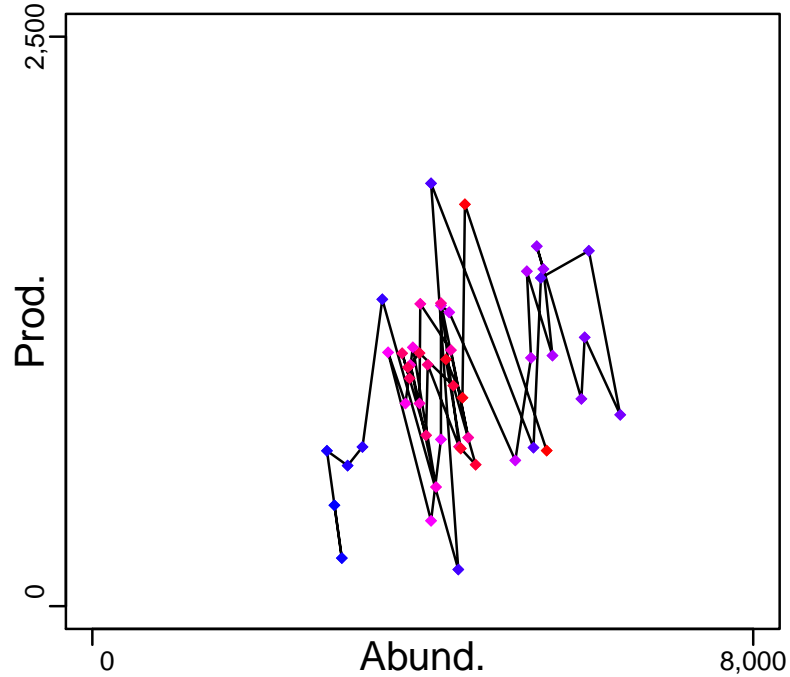
Kobe MGTpref (1967–2018–ICESIMP2018)



Spawner Recruit (1967–2018–ICESIMP2018)



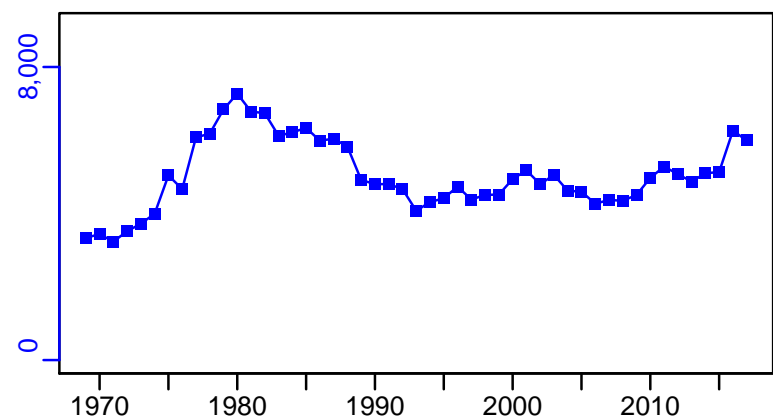
Production (1967–2018–ICESIMP2018)



◆ Start Year ◆ End Year * No Data

Common sole Western English Channel [SOLEVile]

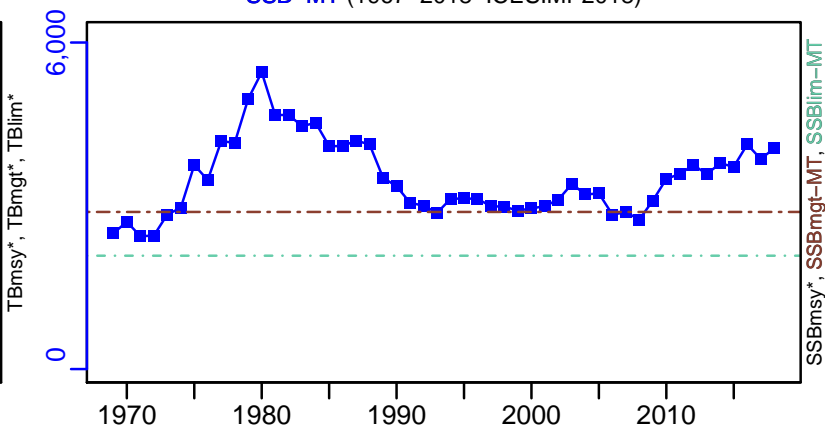
TB-MT (1967–2018–ICESIMP2018)



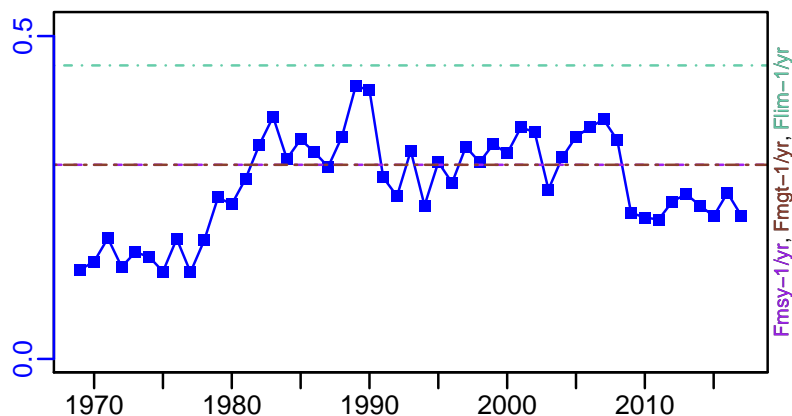
TN *



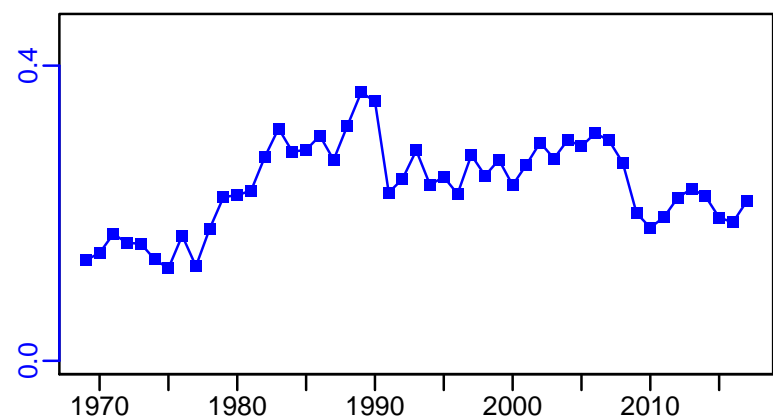
SSB-MT (1967–2018–ICESIMP2018)



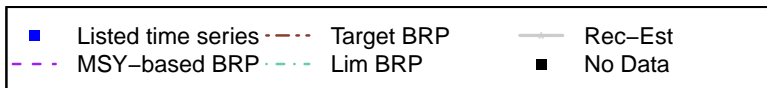
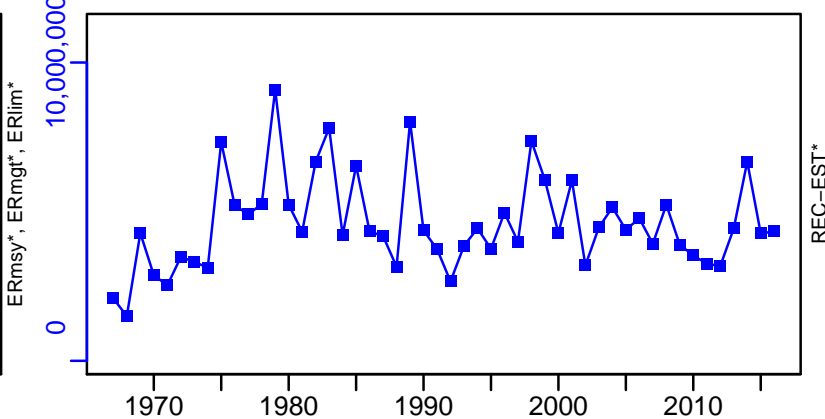
F-1/yr (1967–2018–ICESIMP2018)



ER-calc-ratio (1967–2018–ICESIMP2018)



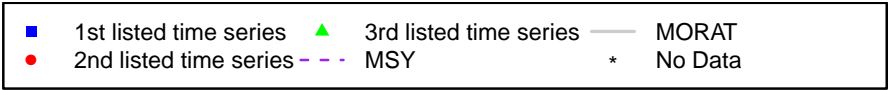
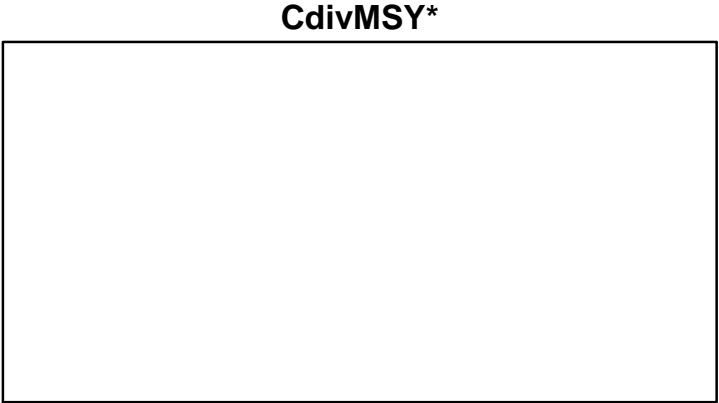
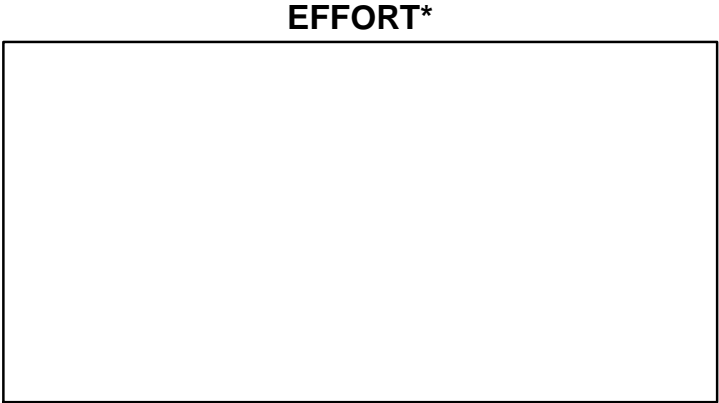
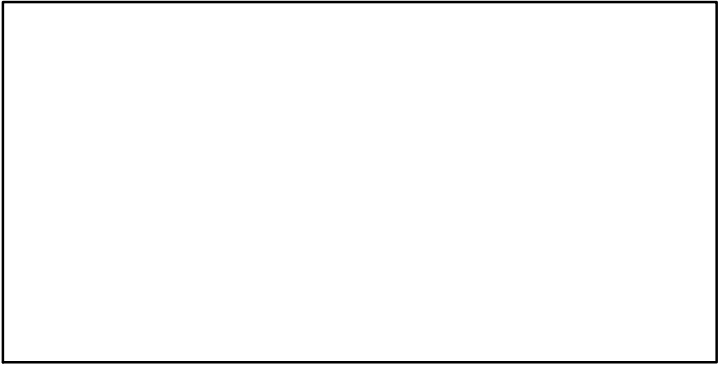
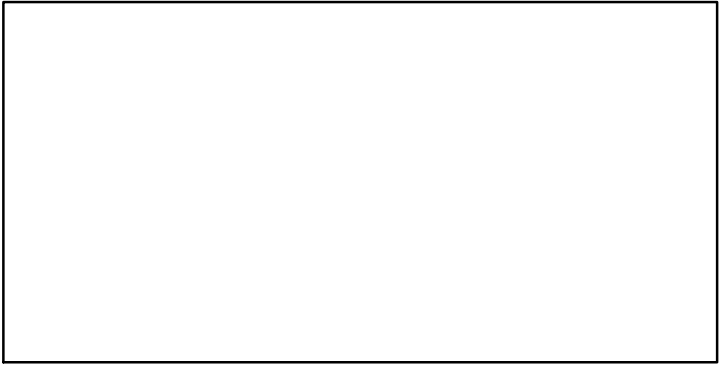
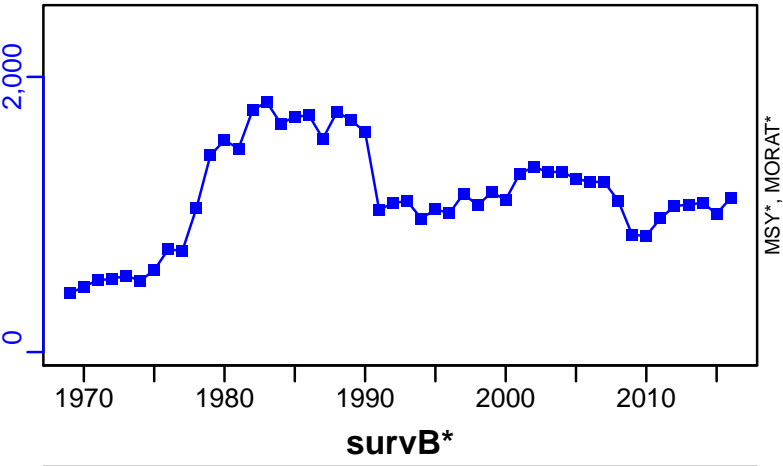
R-E00 (1967–2018–ICESIMP2018)



Common sole Western English Channel [SOLEVile]

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

TAC*, Cpair*, Cadv*



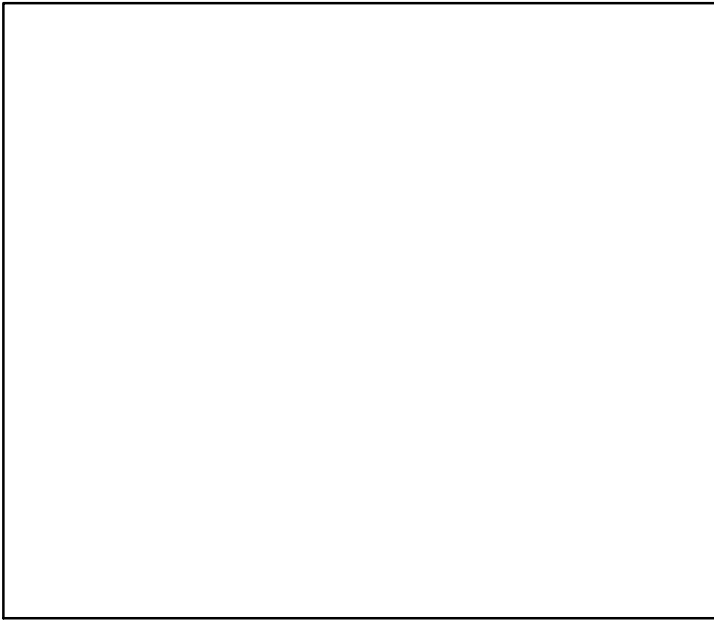
Common sole VIIh-k [SOLEVIIh-k]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIh-k-1990-2018-ICESIMP2018
Area	VIIh-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

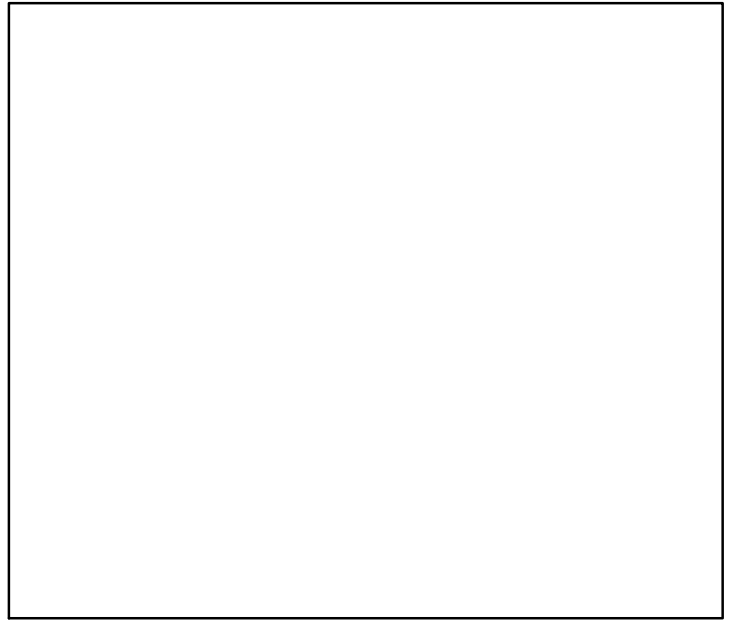
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2018	590
Fmgt	Fmgt-relative	2018	0.161
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-relative	2018	425
Flim	Flim-relative	2018	0.222
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2018	1.3	Both	-
TN	-	-	-	-	-
R	R-relative	2018	1.81	-	3
F	F-relative	2018	0.614	-	3 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	92		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

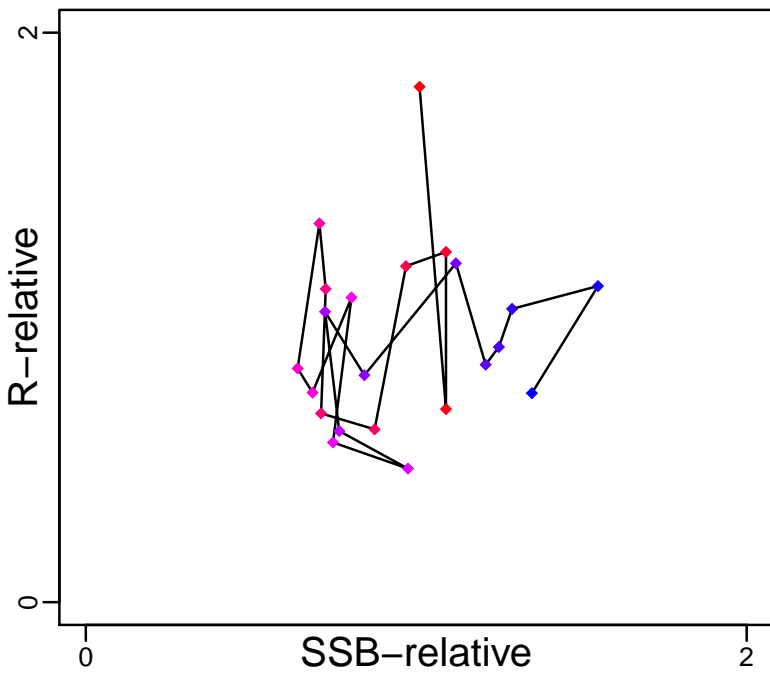
Kobe MSY*



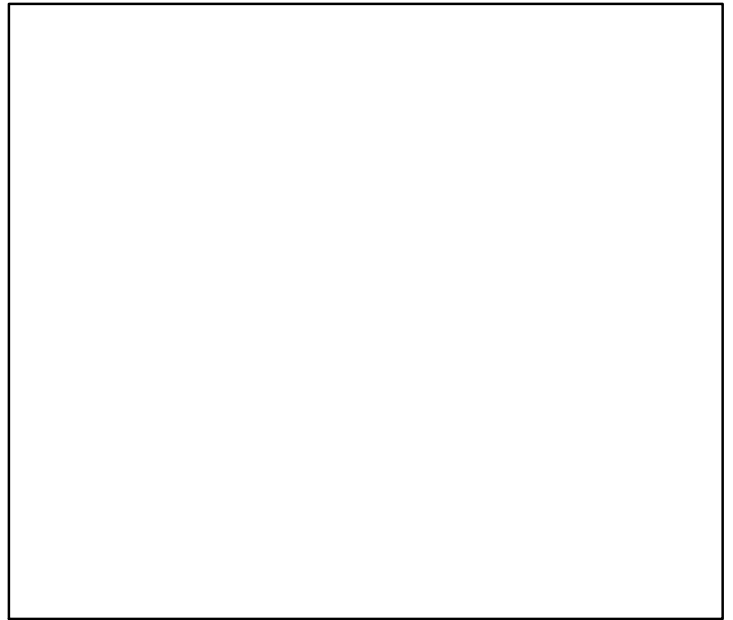
Kobe MGT*



Spawner Recruit (1990–2018–ICESIMP2018)



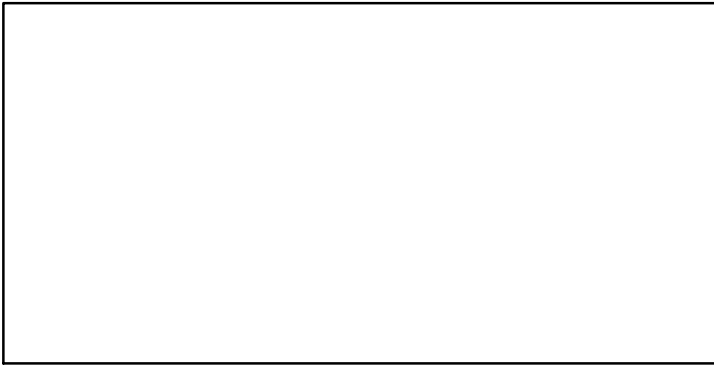
Production*



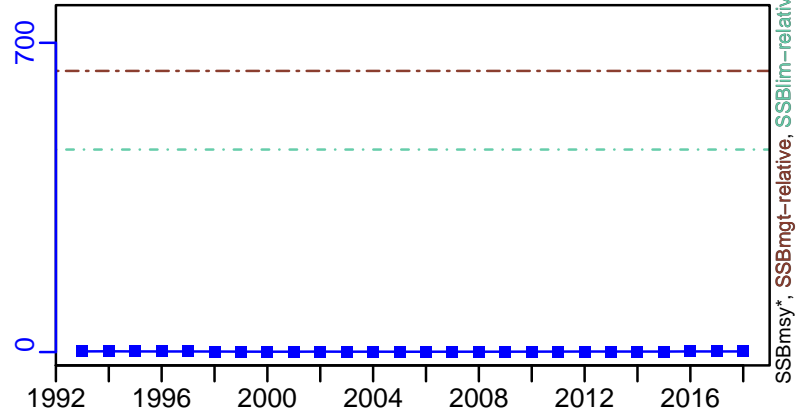
◆ Start Year ◆ End Year * No Data

Common sole VIIh-k [SOLEVIIh-k]

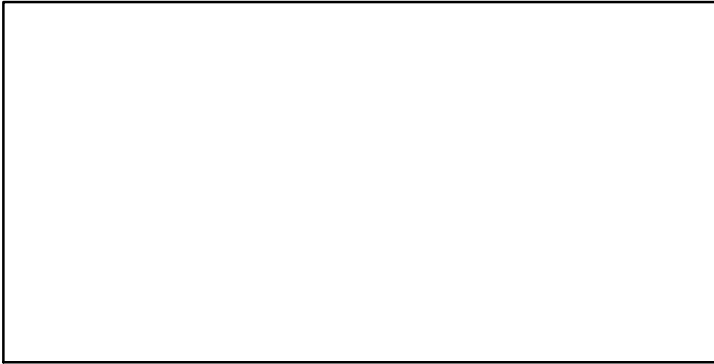
TB*



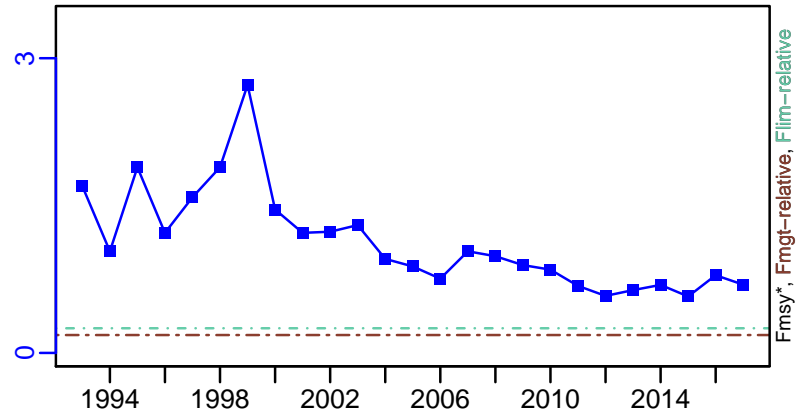
SSB-relative (1990-2018-ICESIMP2018)



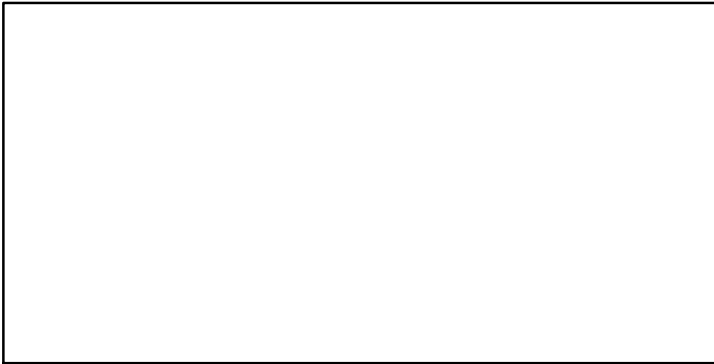
TN *



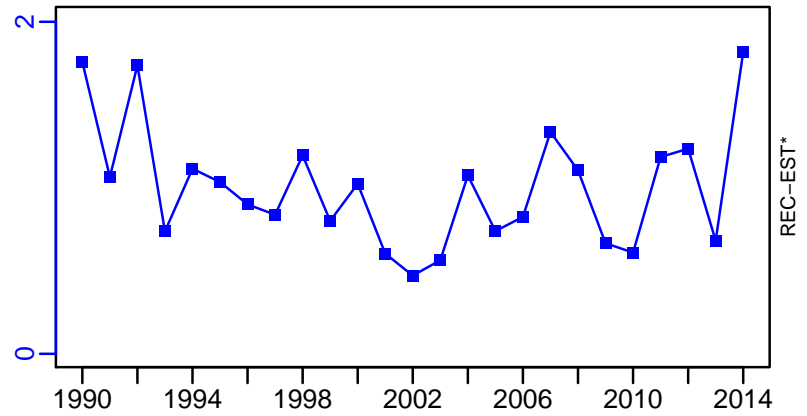
F-relative (1990-2018-ICESIMP2018)



ER*



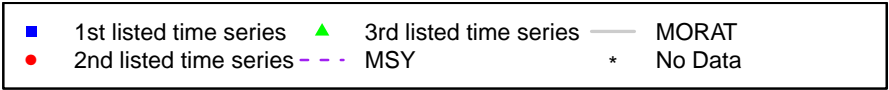
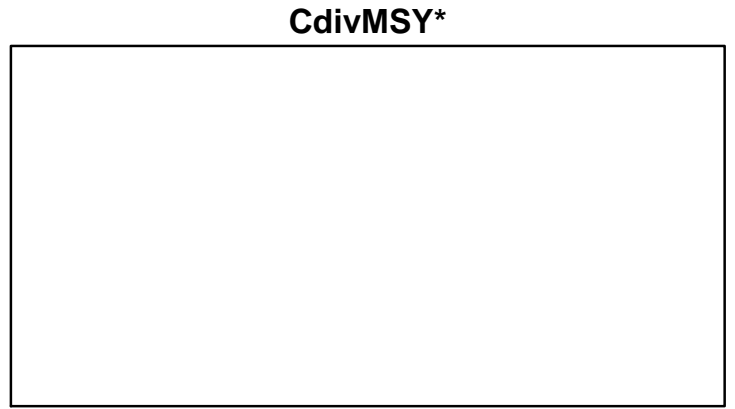
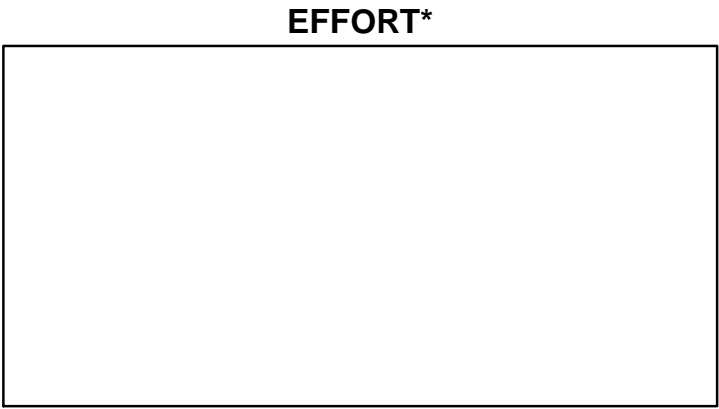
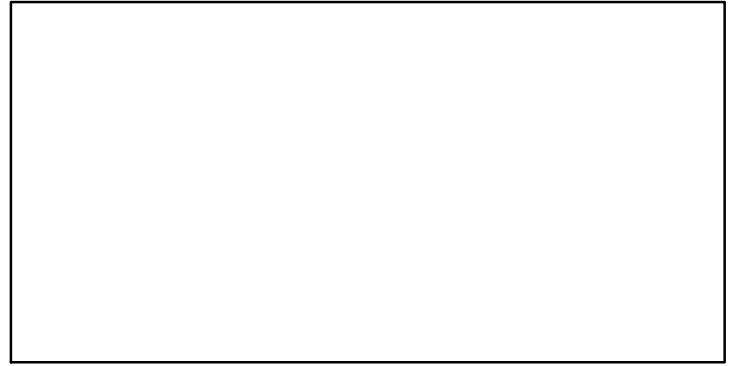
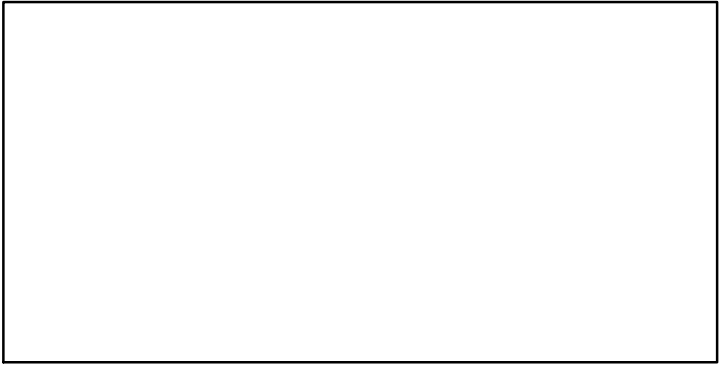
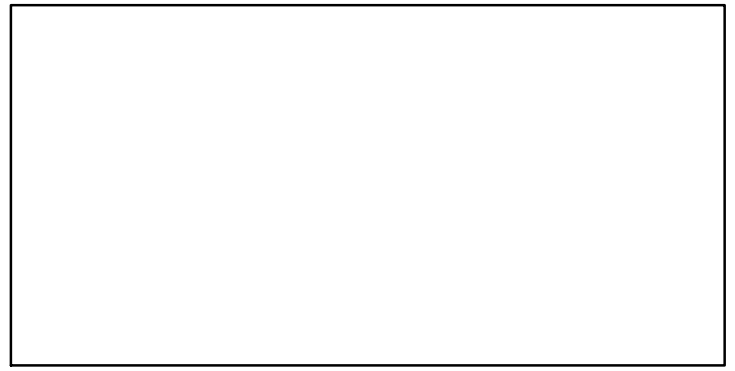
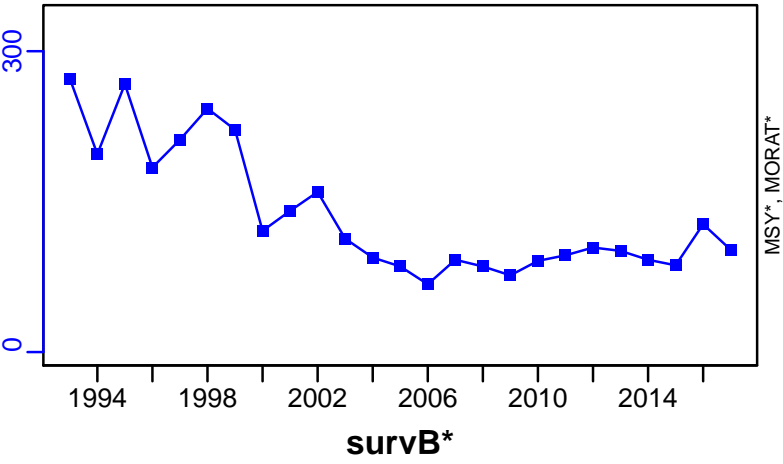
R-relative (1990-2018-ICESIMP2018)



Common sole VIIh-k [SOLEVIIh-k]

TL-MT, TC*, RecC* (1990-2018-ICESIMP2018)

TAC*, Cpair*, Cadv*



Common sole Villab [SOLEVillab]

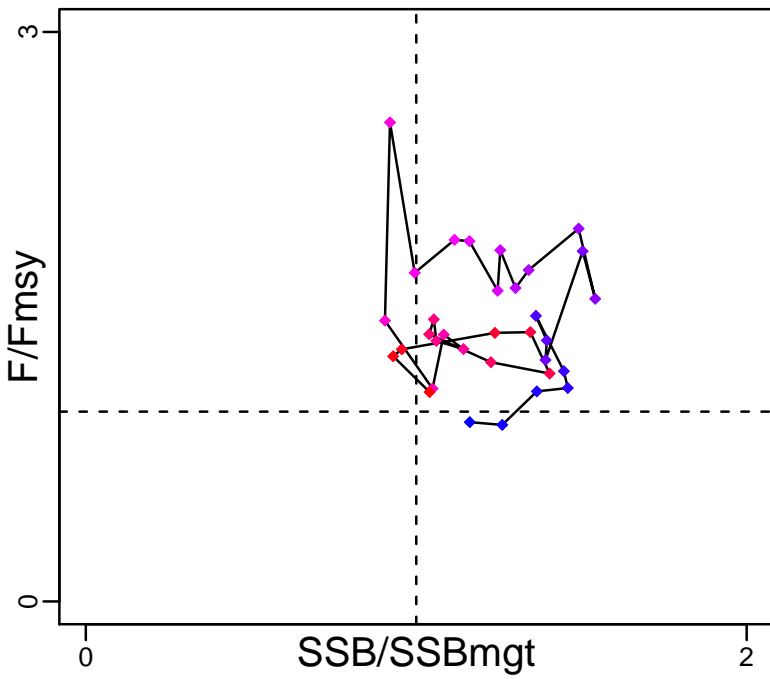
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVillab-1982-2018-ICESIMP2018
Area	Villab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2017, 2018, 2014, 2015, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.33
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	10,600
Fmgt	Fmgt-1/yr	2017	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	7600
Flim	Flim-1/yr	2017	0.6
ERlim	-	-	-

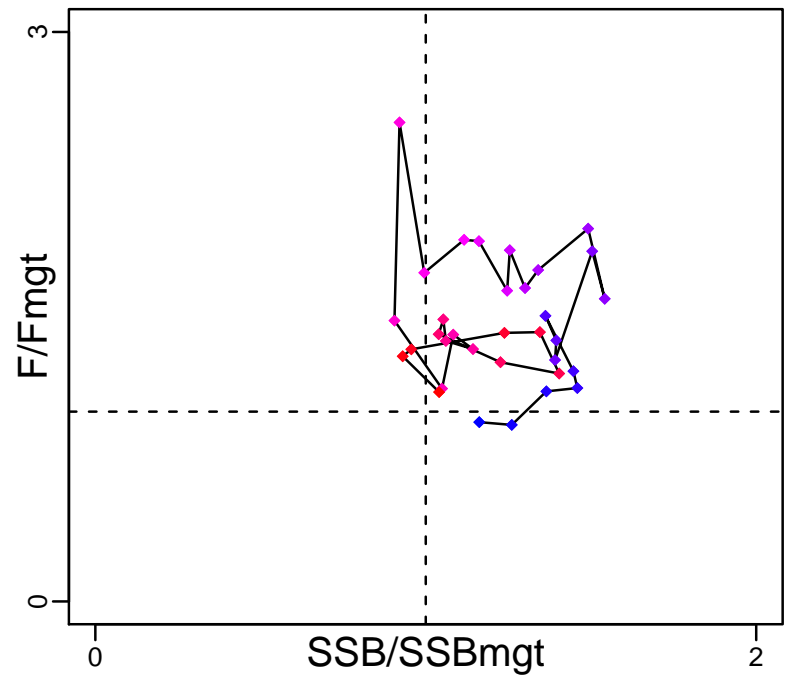
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	16,000	Both	-
SSB	SSB-MT	2018	13,200	Both	-
TN	-	-	-	-	-
R	R-E00	2018	2.1×10^7	-	2
F	F-1/yr	2017	0.364	-	-
ER	ER-calc-ratio	2018	0.206	-	-
TC	TC-MT	2018	3300		
TL	TL-MT	2018	3250		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	1.103		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.244		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	1.103		
ER/ERmgt	-	-	-		

Common sole Villab [SOLEVillab]

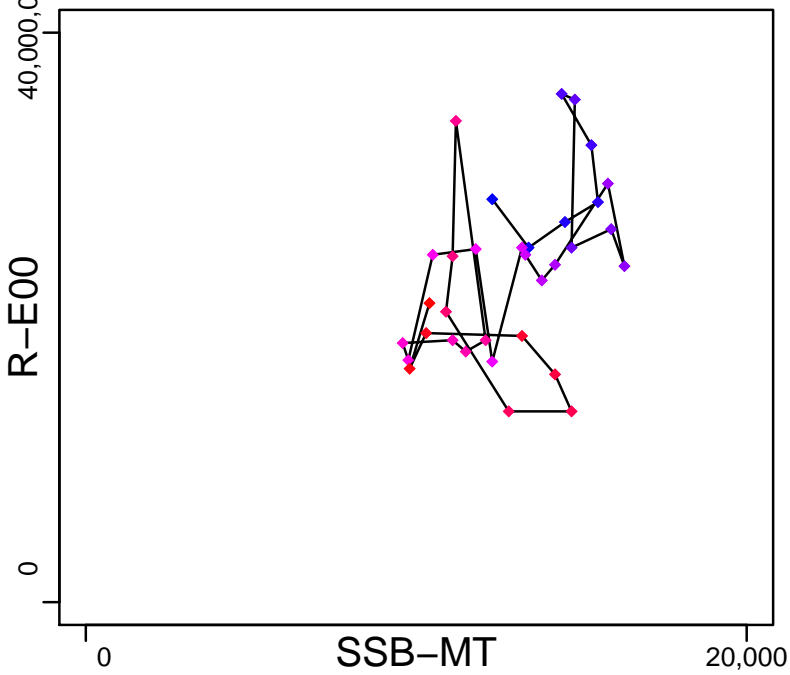
Kobe MSYpref (1982–2017–ICESIMP2018)



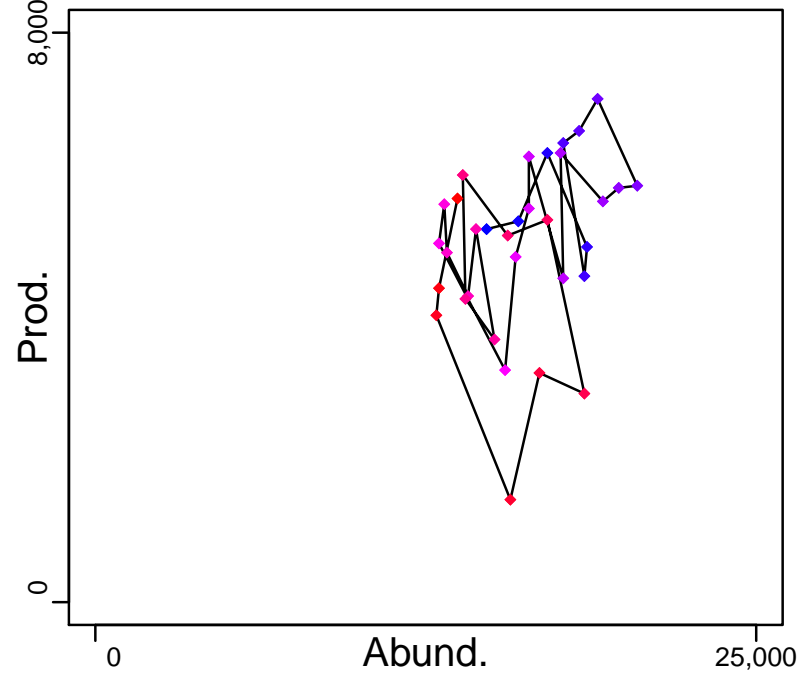
Kobe MGTpref (1982–2017–ICESIMP2018)



Spawner Recruit (1982–2018–ICESIMP2018)



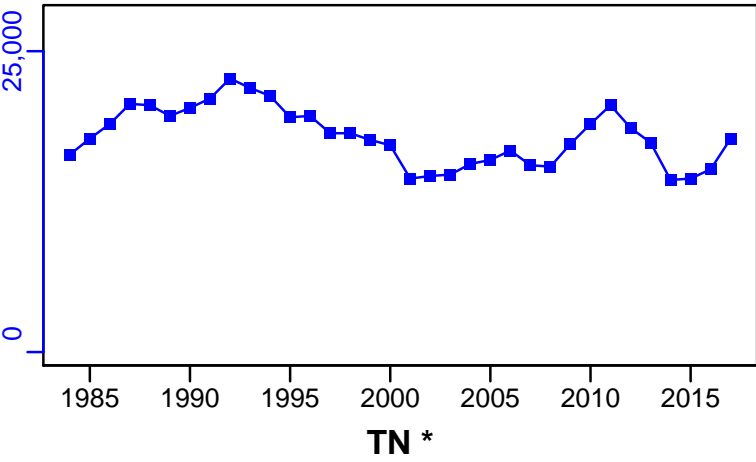
Production (1982–2018–ICESIMP2018)



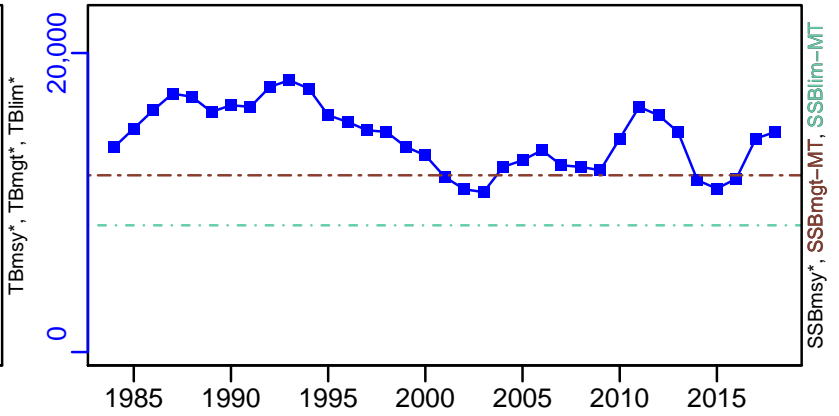
◆ Start Year ◆ End Year * No Data

Common sole Villab [SOLEVillab]

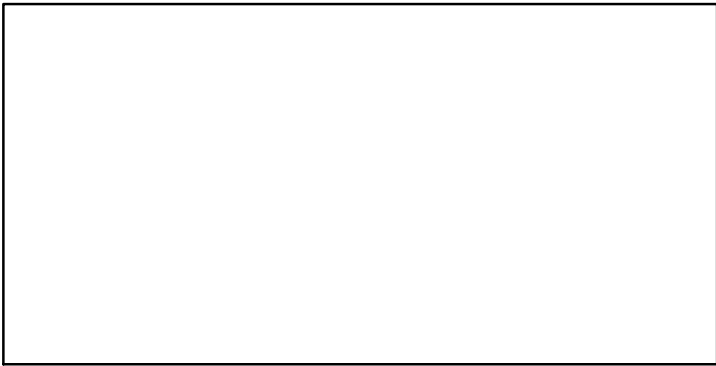
TB-MT (1982–2018–ICESIMP2018)



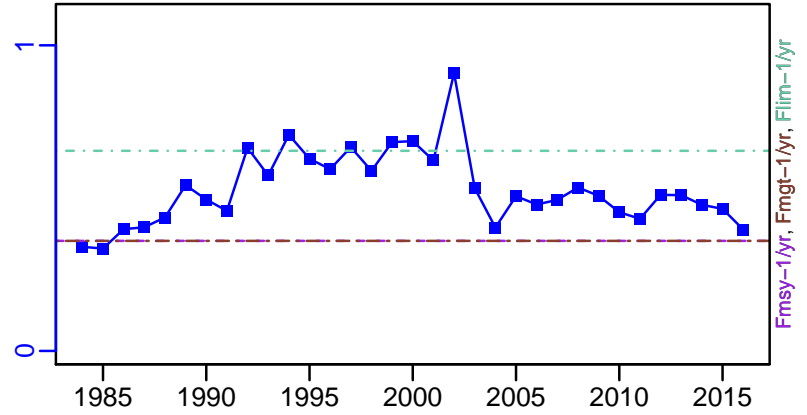
SSB-MT (1982–2018–ICESIMP2018)



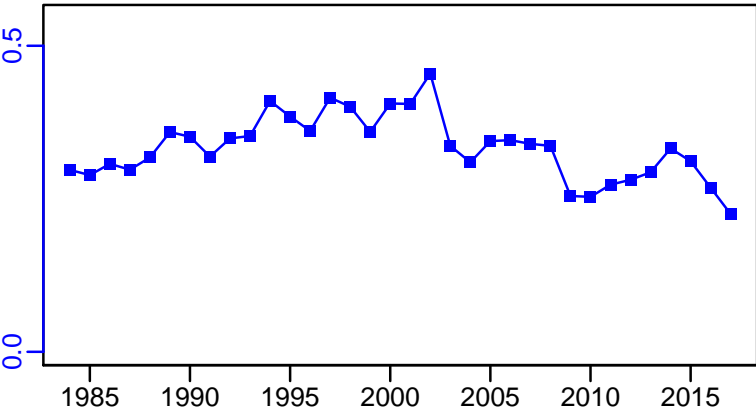
TN *



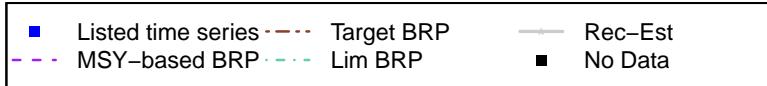
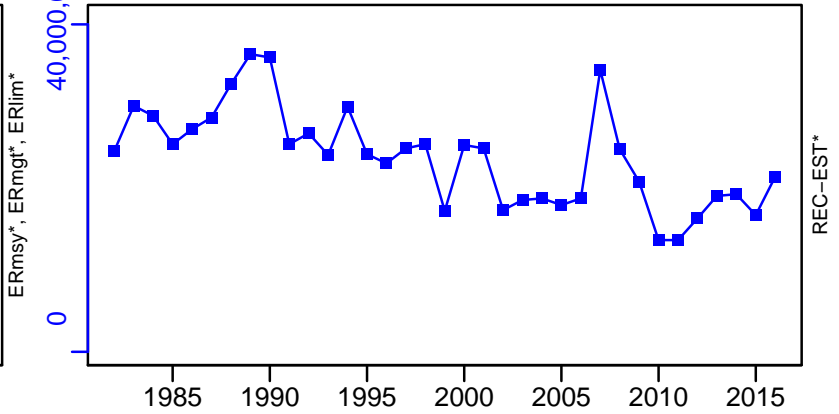
F-1/yr (1982–2017–ICESIMP2018)



ER-calc-ratio (1982–2018–ICESIMP2018)

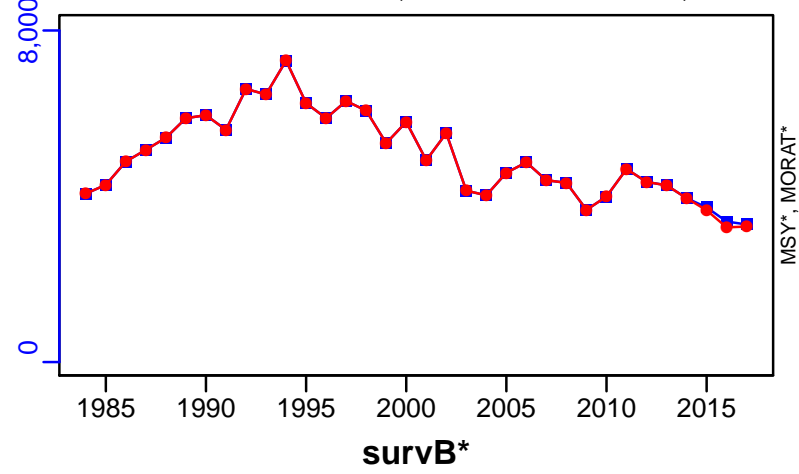


R-E00 (1982–2018–ICESIMP2018)

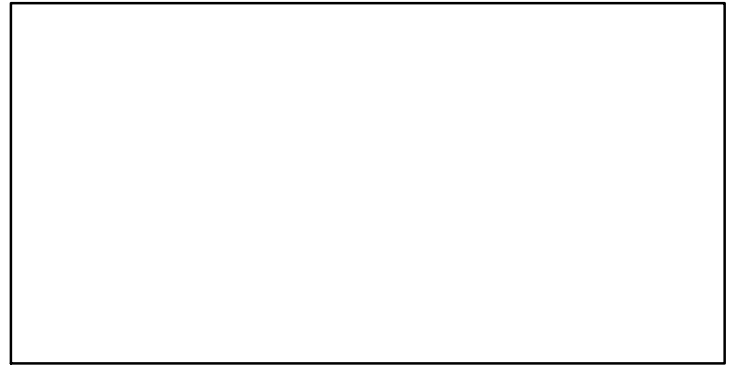


Common sole Villab [SOLEVillab]

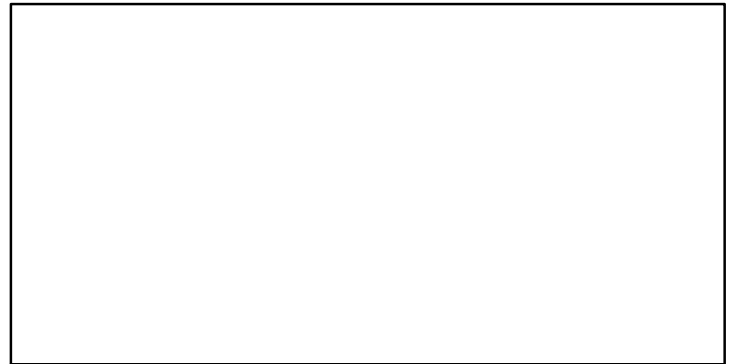
TC-MT, TL-MT, RecC* (1982-2018-ICESIMP2018)



TAC*, Cpair*, Cadv*



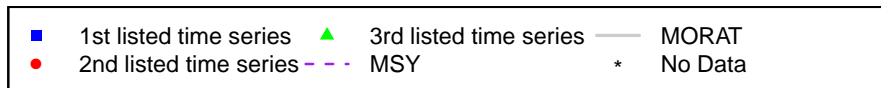
CPUE*



EFFORT*



CdivMSY*



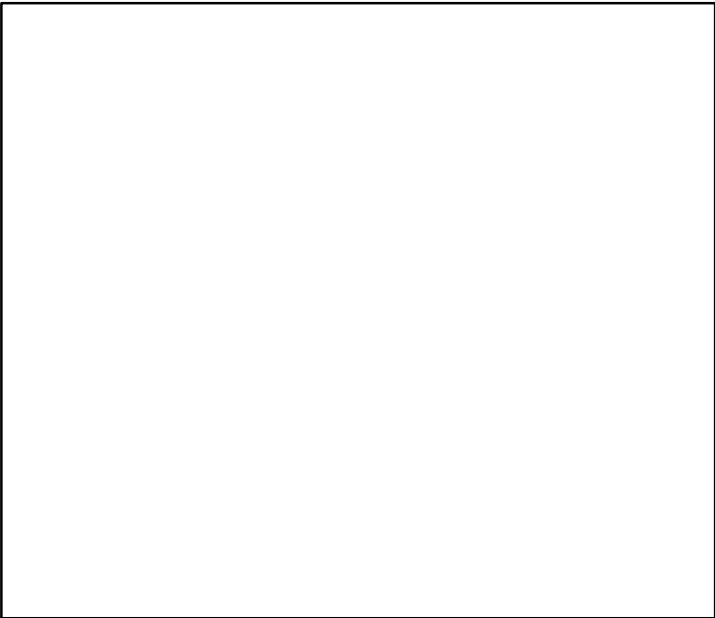
Common sole VIIIc-IXa [SOLEVIIIc-IXa]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVIIIc-IXa-2000-2011-ICESIMP2018
Area	VIIIc-IXa
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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

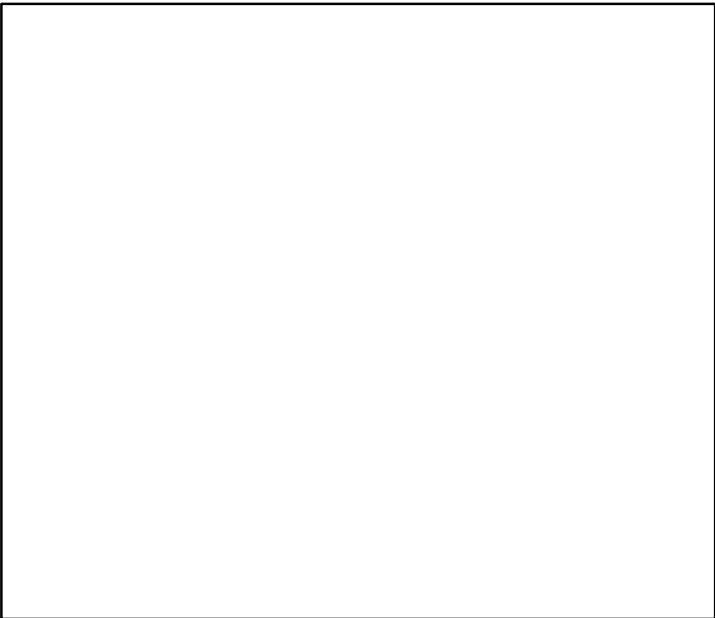
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



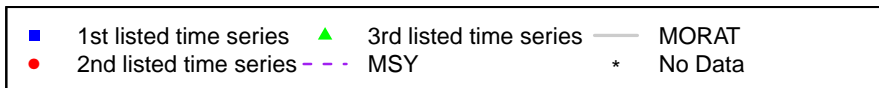
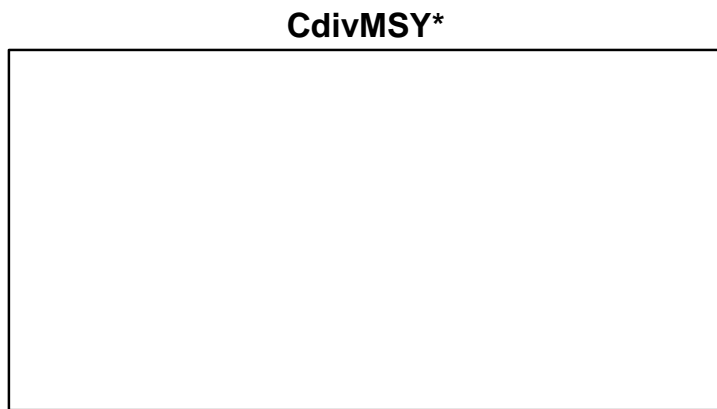
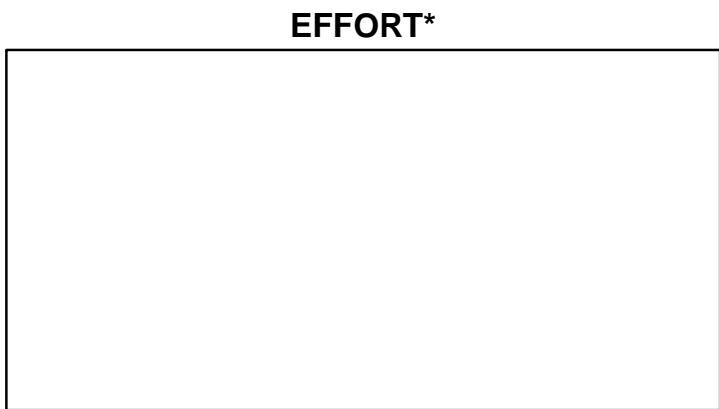
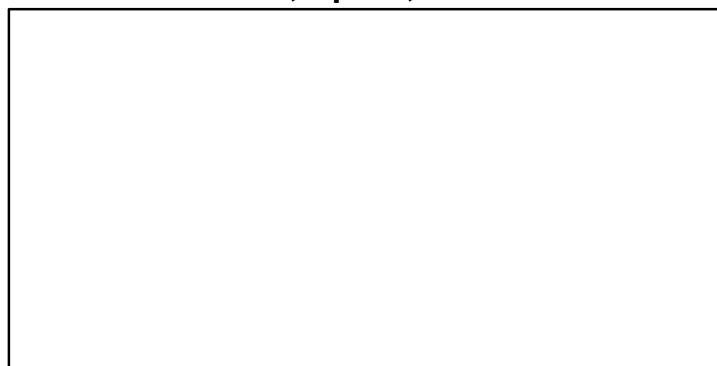
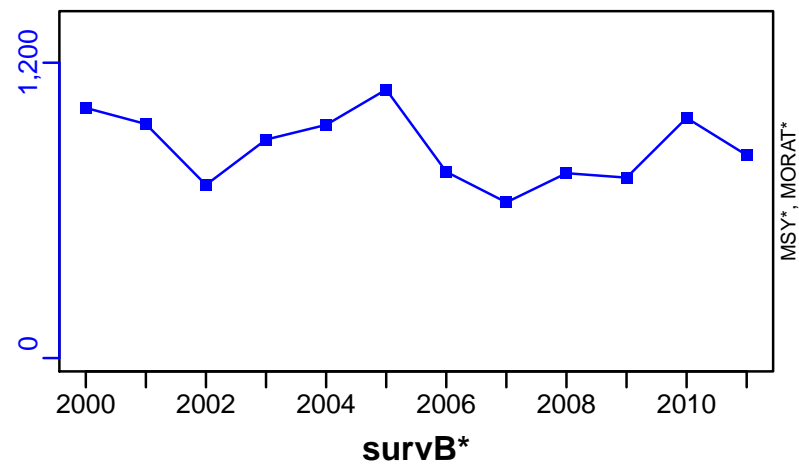
Recruits*



Common sole VIIIc-IXa [SOLEVIIIc-IXa]

TL-MT, TC*, RecC* (2000-2011-ICESIMP2018)

TAC*, Cpair*, Cadv*



Sprat ICES Baltic Areas 22-32 [SPRAT22-32]

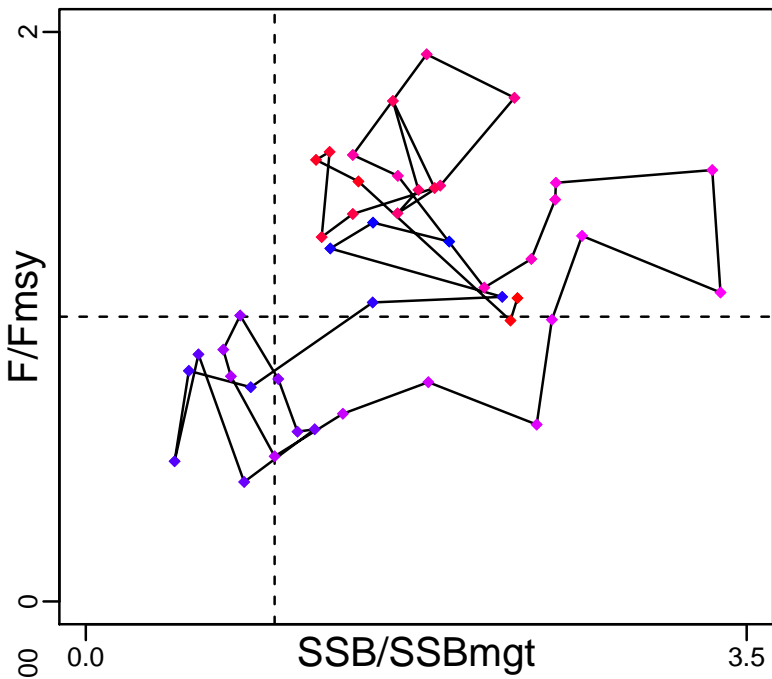
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	WGBFAS-SPRAT22-32-1973-2018-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	570,000
Fmgt	Fmgt-1/yr	2018	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	410,000
Flim	Flim-1/yr	2018	0.39
ERlim	-	-	-

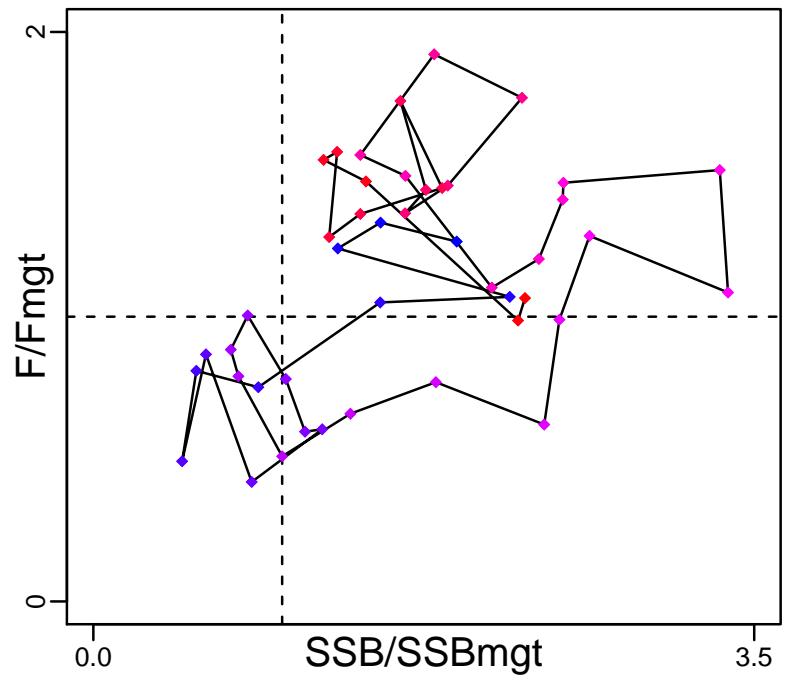
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	1,980,000	Both	-
SSB	SSB-MT	2018	1,370,000	Both	-
TN	-	-	-	-	-
R	R-E00	2018	1.13×10^{11}	-	1
F	F-1/yr	2018	0.277	-	3 to 5
ER	ER-calc-ratio	2018	0.145	-	-
TC	TC-MT	2017	247,000		
TL	TL-MT	2018	286,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.065		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.396		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.065		
ER/ERmgt	-	-	-		

Sprat ICES Baltic Areas 22–32 [SPRAT22–32]

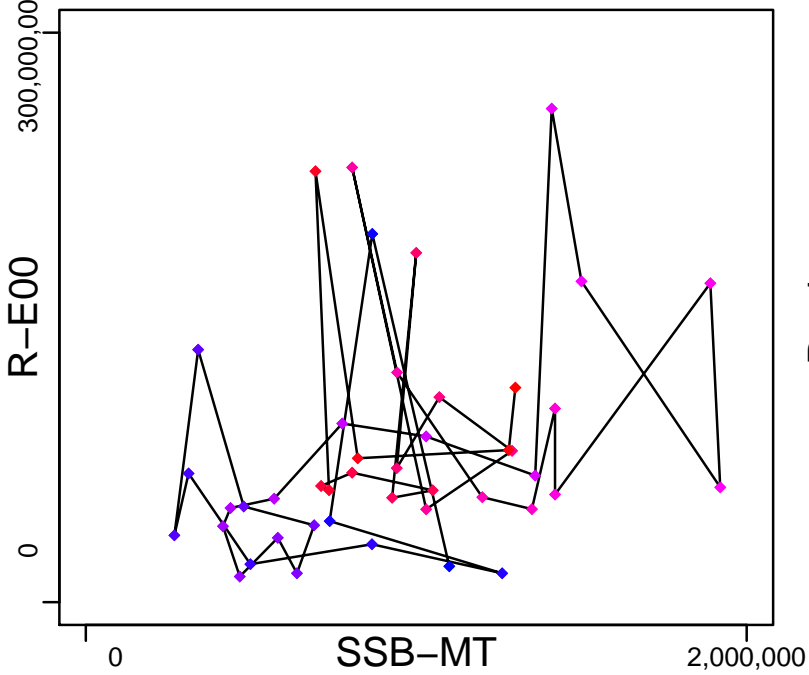
Kobe MSYpref (1973–2018–ICESIMP2018)



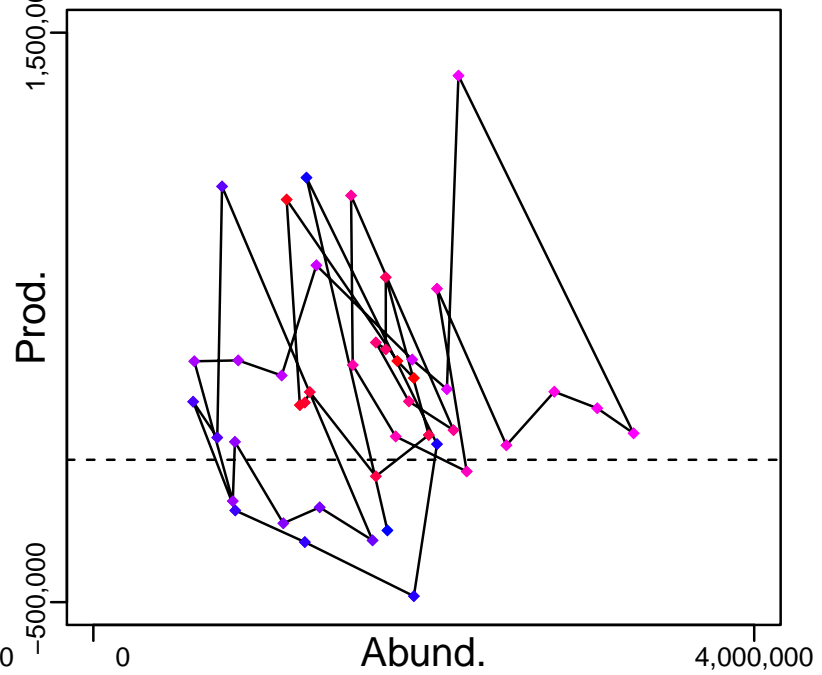
Kobe MGTpref (1973–2018–ICESIMP2018)



Spawner Recruit (1973–2018–ICESIMP2018)



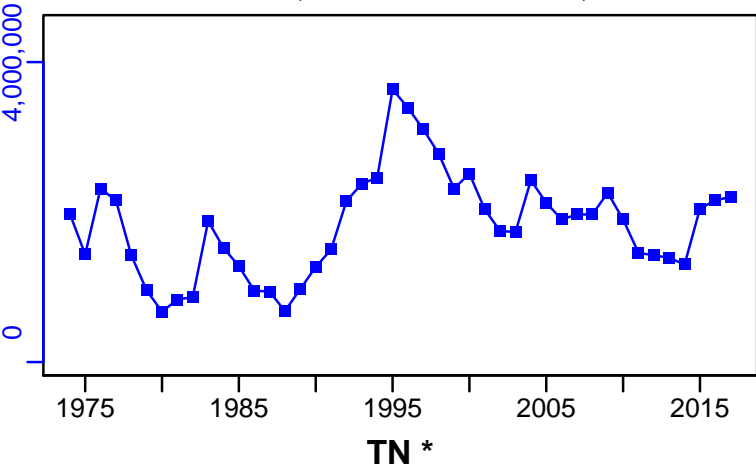
Production (1973–2018–ICESIMP2018)



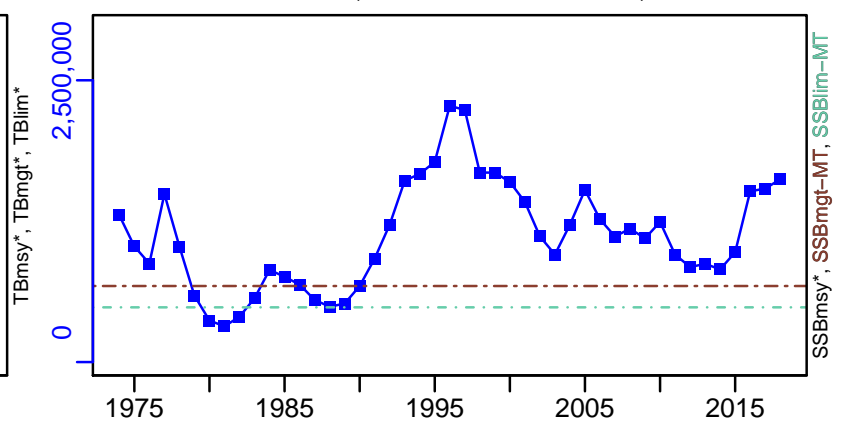
◆ Start Year ◆ End Year * No Data

Sprat ICES Baltic Areas 22–32 [SPRAT22–32]

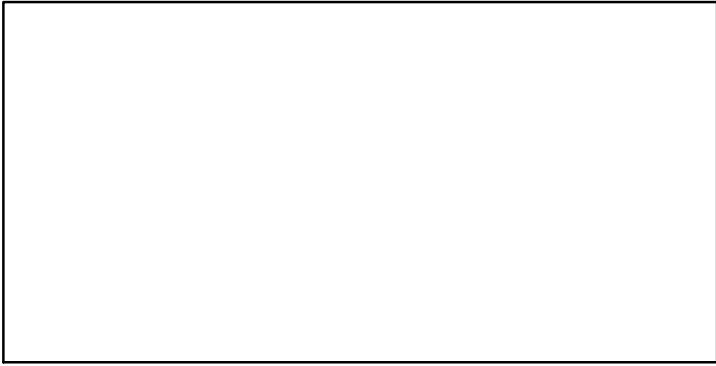
TB–MT (1973–2018–ICESIMP2018)



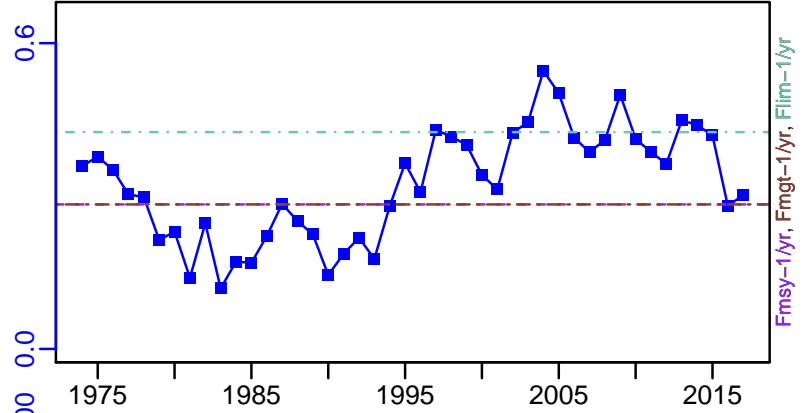
SSB–MT (1973–2018–ICESIMP2018)



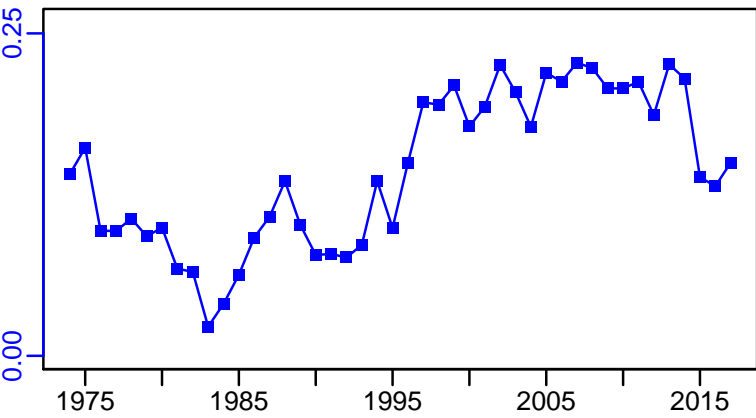
TN *



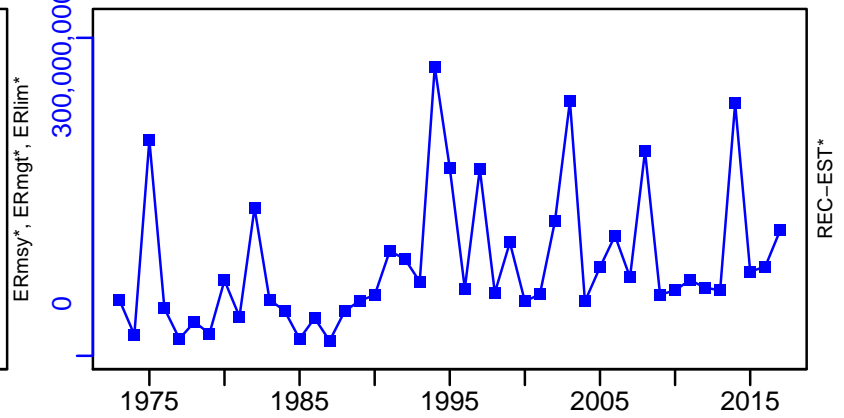
F–1/yr (1973–2018–ICESIMP2018)



ER–calc–ratio (1973–2018–ICESIMP2018)

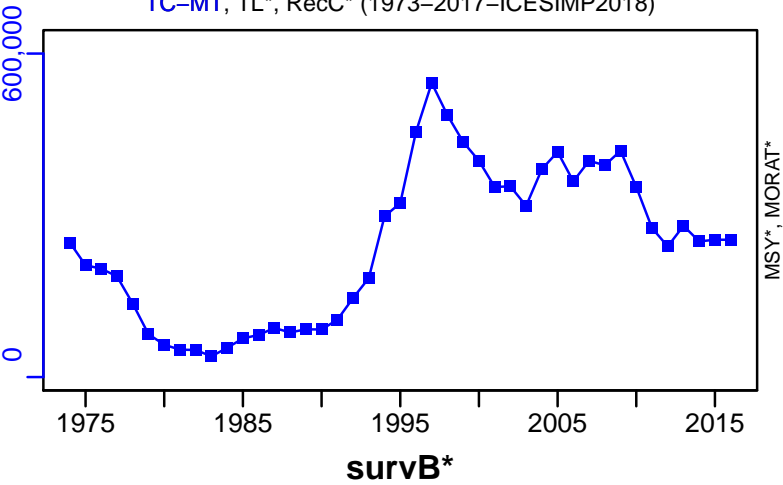


R–E00 (1973–2018–ICESIMP2018)



Sprat ICES Baltic Areas 22–32 [SPRAT22–32]

TC–MT, TL*, RecC* (1973–2017–ICESIMP2018)



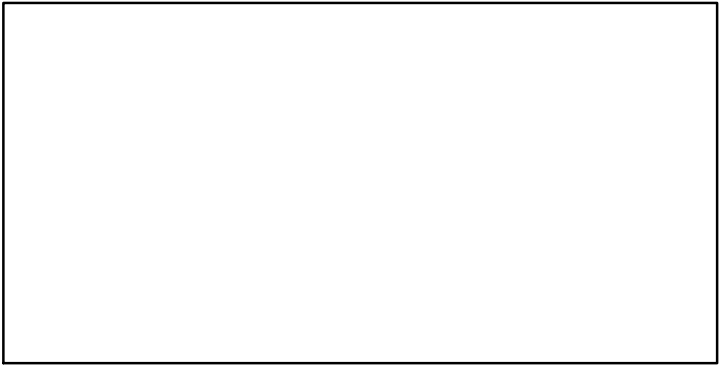
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Sprat Kattegat and Skagerrak [SPRATIIIa]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATIIIa-1974-2017-ICESIMP2018
Area	Kattegat and Skagerrak
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, 2016, 2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	1410		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

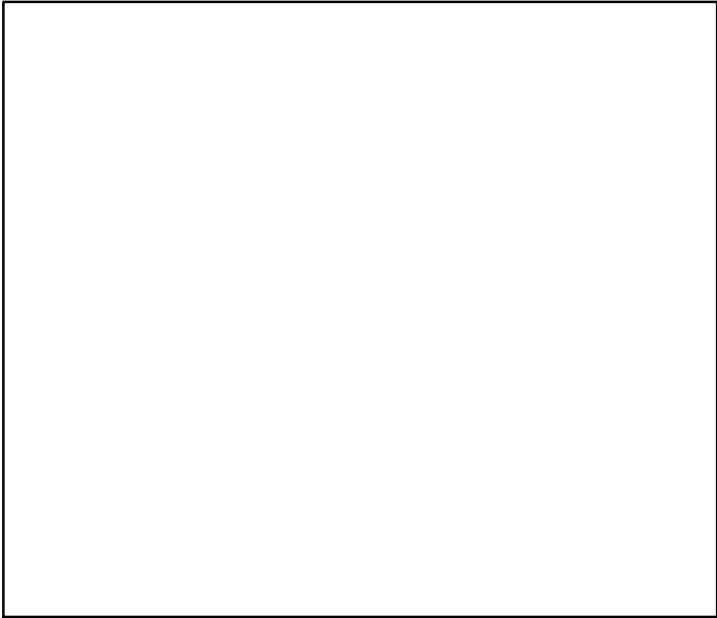
Kobe MSY*



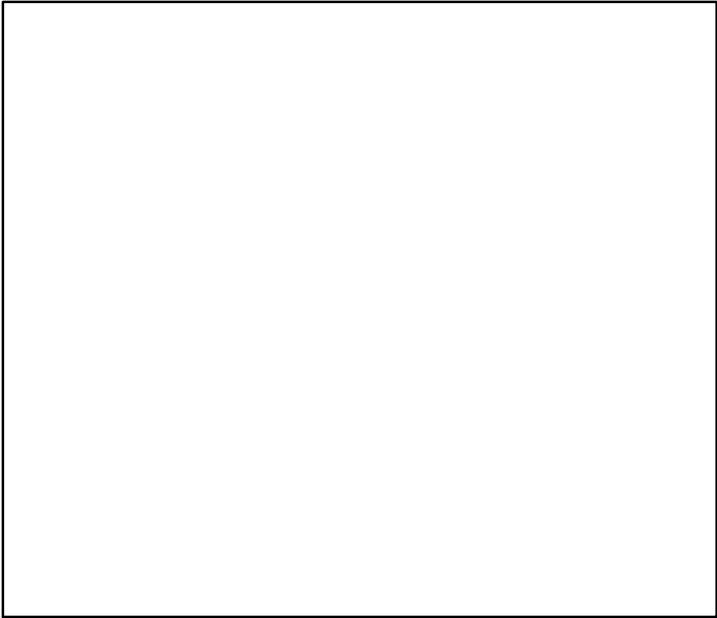
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sprat Kattegat and Skagerrak [SPRATIIIa]

TB*



SSB*



TN *



F*



ER*

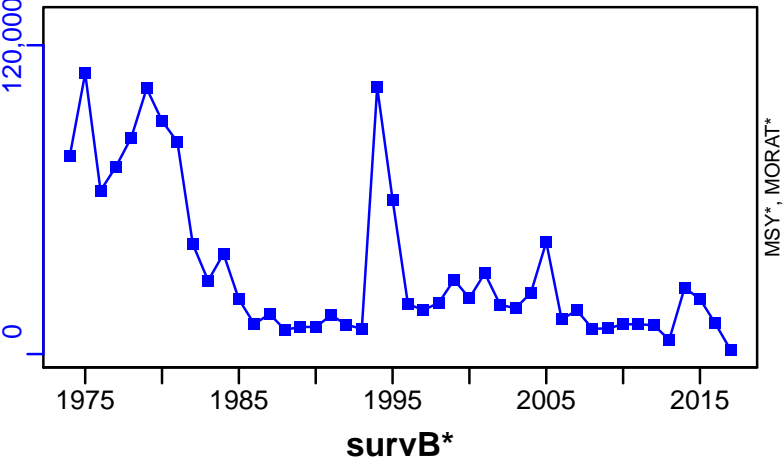


Recruits*

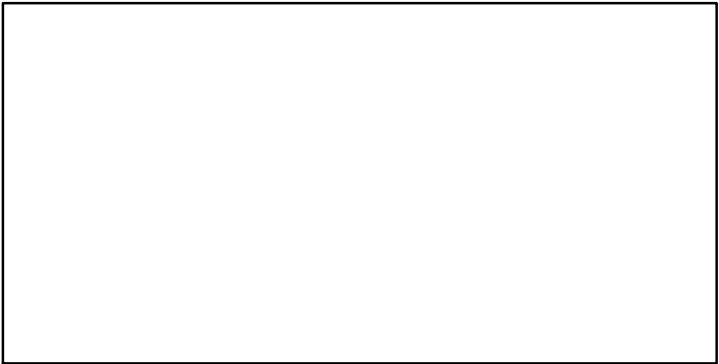


Sprat Kattegat and Skagerrak [SPRATIIIa]

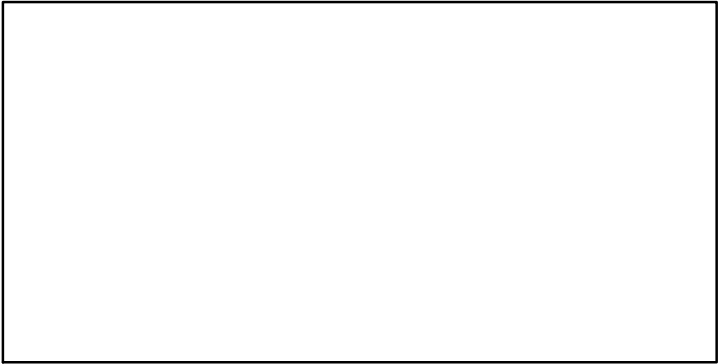
TL-MT, TC*, RecC* (1974–2017–ICESIMP2018)



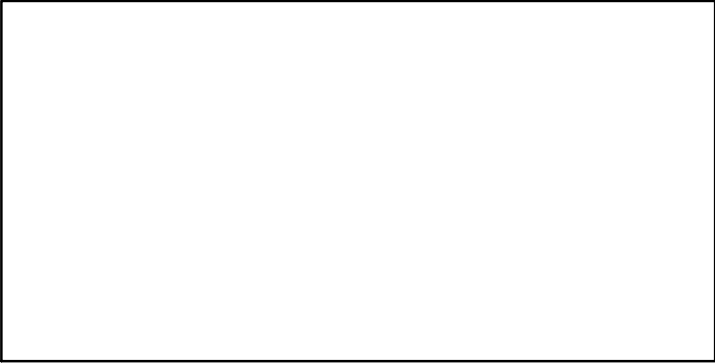
TAC*, Cpair*, Cadv*



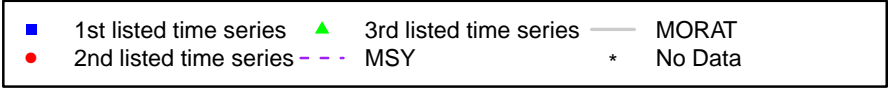
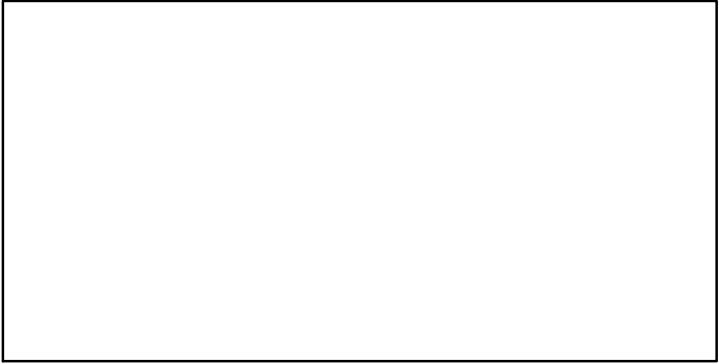
CPUE*



EFFORT*



CdivMSY*



Sprat North Sea [SPRATNS]

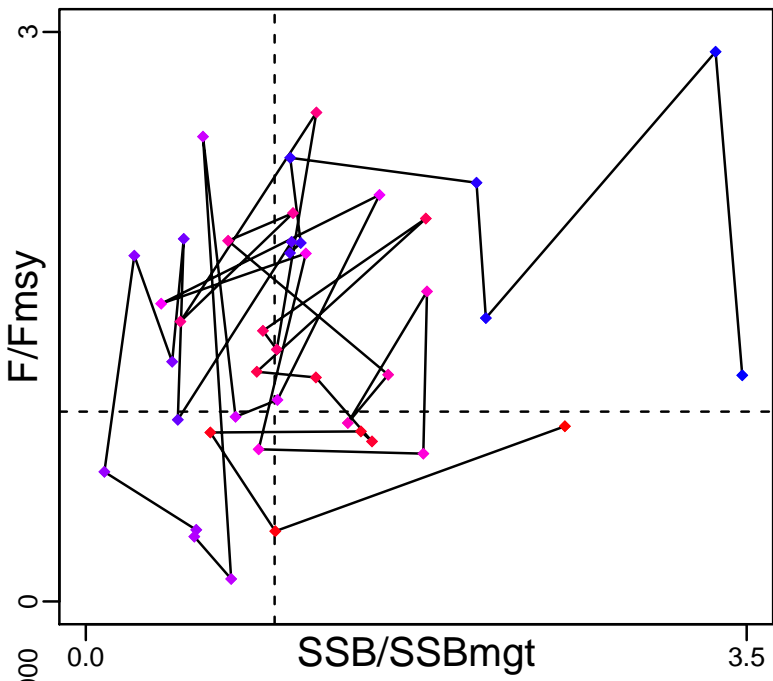
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATNS-1974-2018-ICESIMP2018
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2018, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.7
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	142,000
Fmgt	Fmgt-1/yr	2015	0.7
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.75
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	90,000
Flim	-	-	-
ERlim	-	-	-

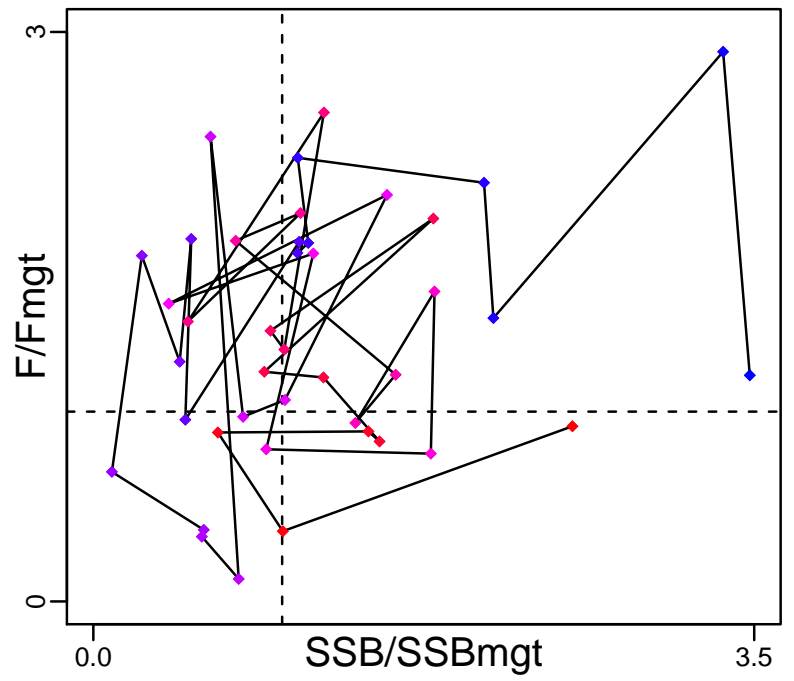
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	2,560,000	Both	-
SSB	SSB-MT	2018	409,000	Both	-
TN	TN-relative	2007	72,900	-	-
R	R-E00	2018	1.04×10^{11}	-	0
F	F-1/yr	2018	1.72	-	1 to 2
ER	ER-calc-ratio	2016	0.113	-	-
TC	TC-MT	2018	140,000		
TL	TL-MT	2018	140,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.923		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.879		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.923		
ER/ERmgt	-	-	-		

Sprat North Sea [SPRATNS]

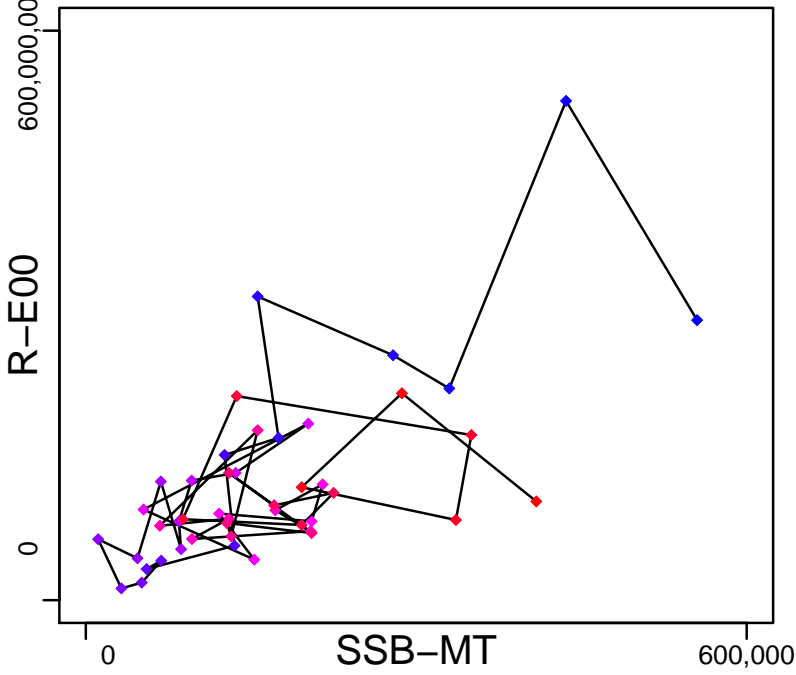
Kobe MSYpref (1974–2015–ICESIMP2016)



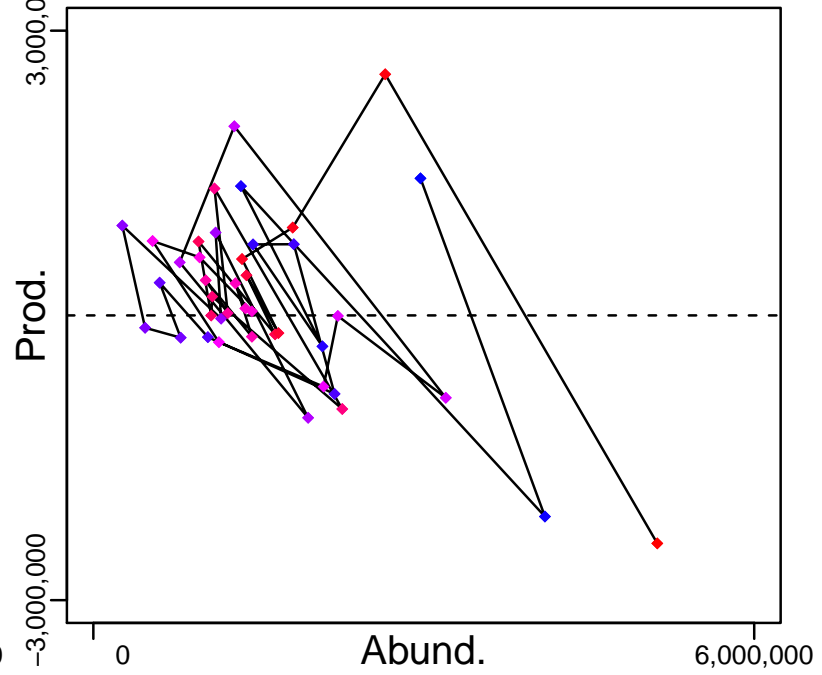
Kobe MGTpref (1974–2015–ICESIMP2016)



Spawner Recruit (1974–2018–ICESIMP2018)



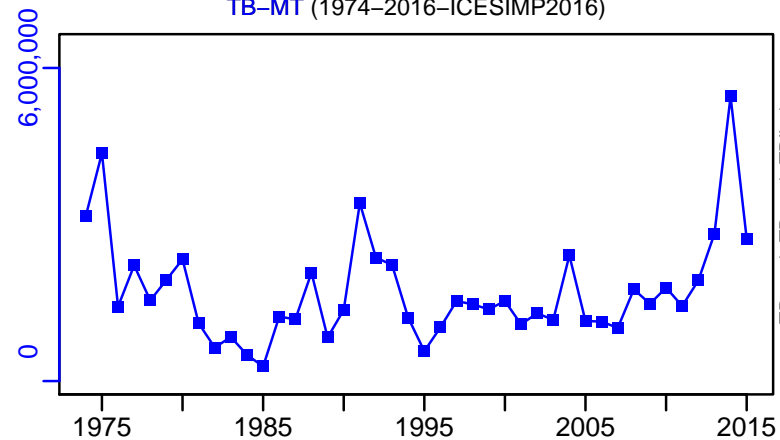
Production (1974–2016–ICESIMP2016)



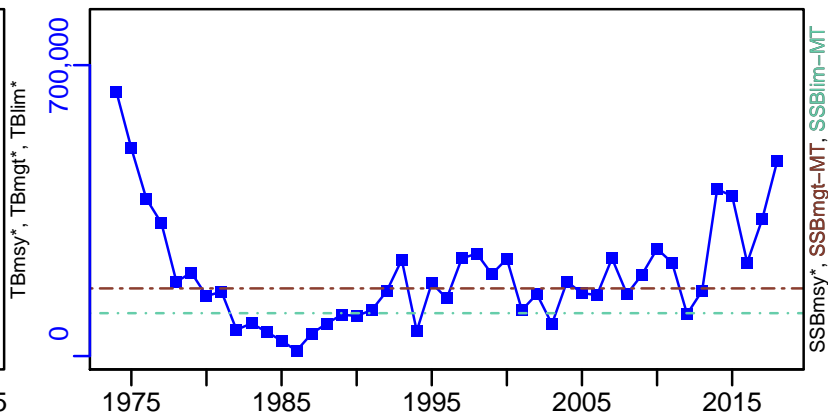
◆ Start Year ◆ End Year * No Data

Sprat North Sea [SPRATNS]

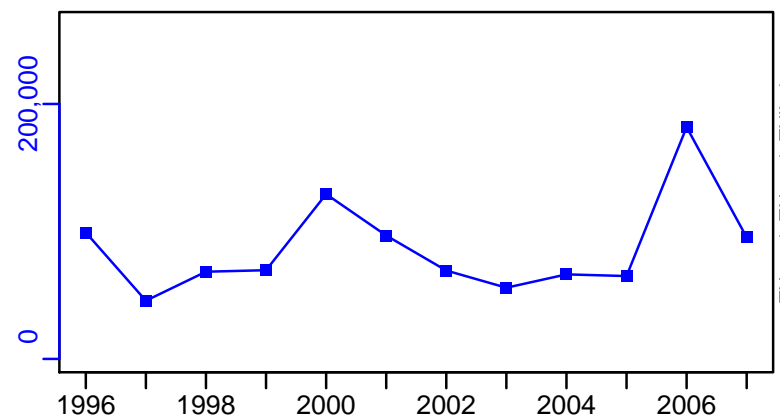
TB-MT (1974–2016–ICESIMP2016)



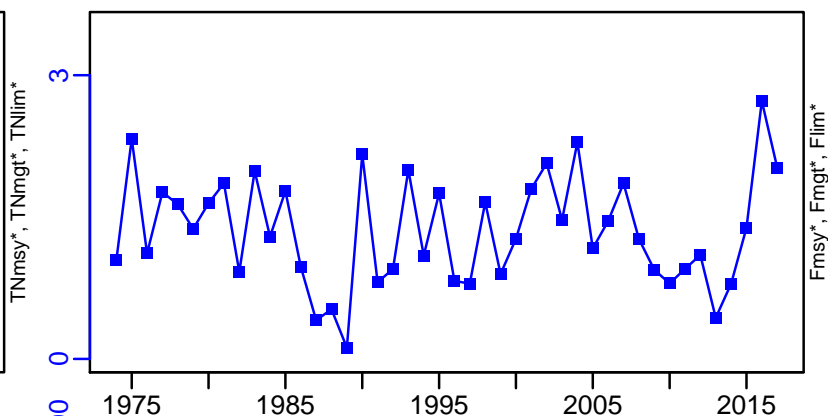
SSB-MT (1974–2018–ICESIMP2018)



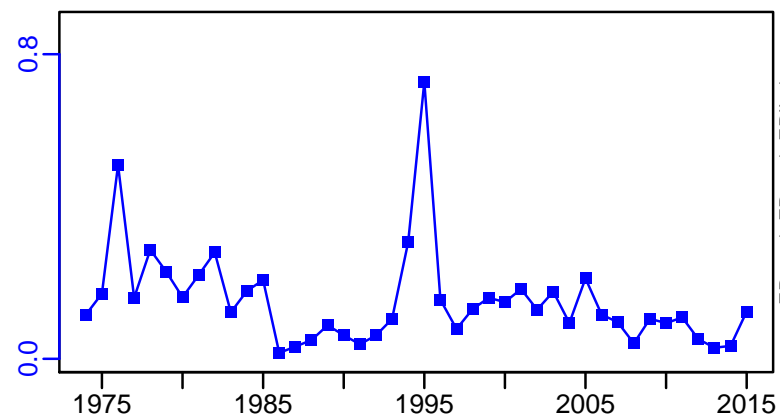
TN-relative (1995–2007–MINTO)



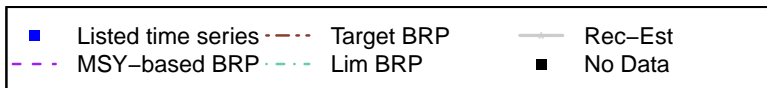
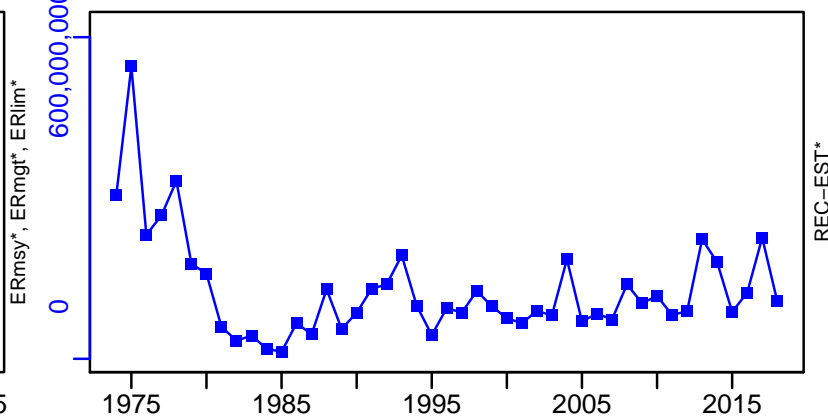
F-1/yr (1974–2018–ICESIMP2018)



ER-calc-ratio (1974–2016–ICESIMP2016)

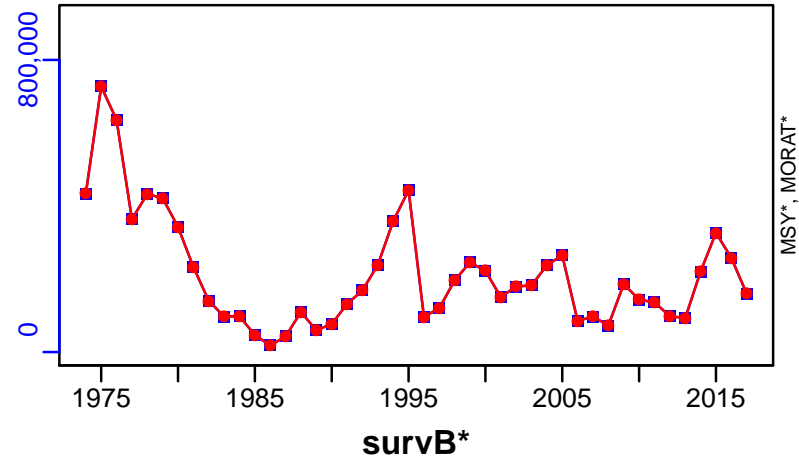


R-E00 (1974–2018–ICESIMP2018)

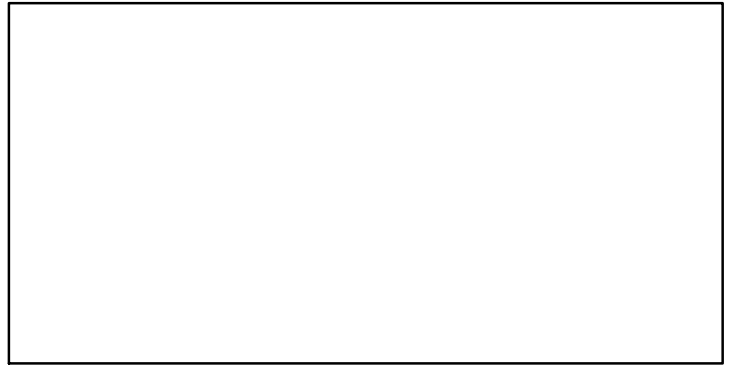


Sprat North Sea [SPRATNS]

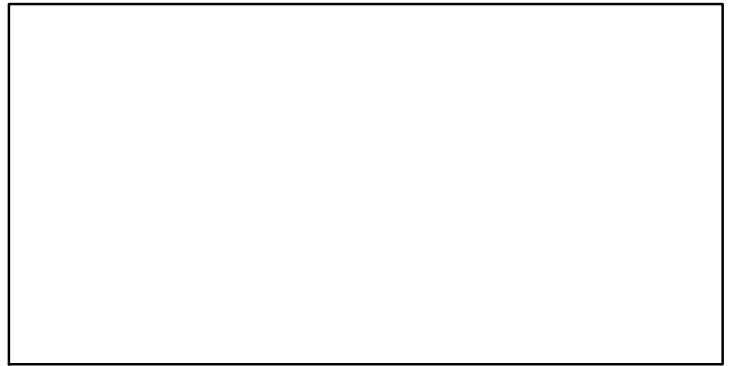
TC-MT, TL-MT, RecC* (1974–2018–ICESIMP2018)



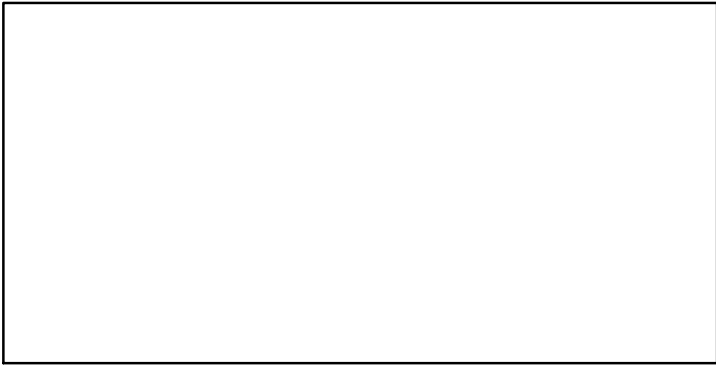
TAC*, Cpair*, Cadv*



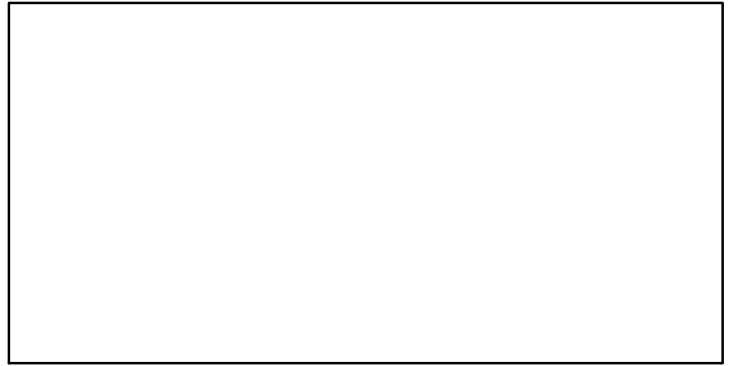
CPUE*



EFFORT*



CdivMSY*



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

Sprat VIlde [SPRATVIlde]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVIlde-1985-2017-ICESIMP2018
Area	VIlde
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, 2016, 2017

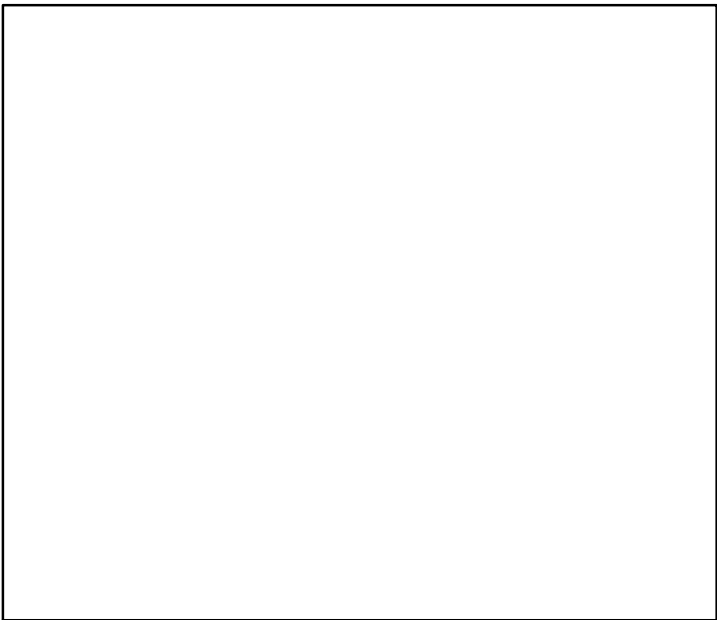
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	0.168	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2016	2.83	-	-
ER	ER-ratio	2017	0.001	-	-
TC	-	-	-		
TL	TL-MT	2017	2730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

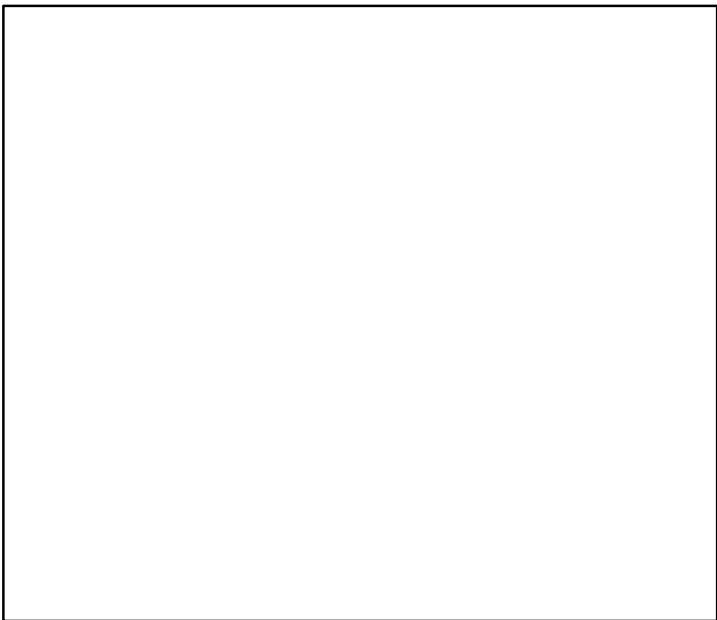
Kobe MSY*



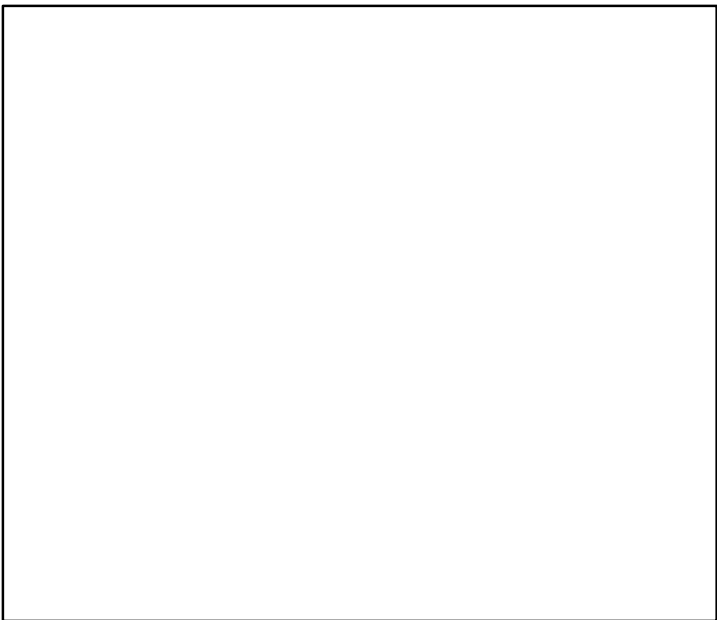
Kobe MGT*



Spawner Recruit*



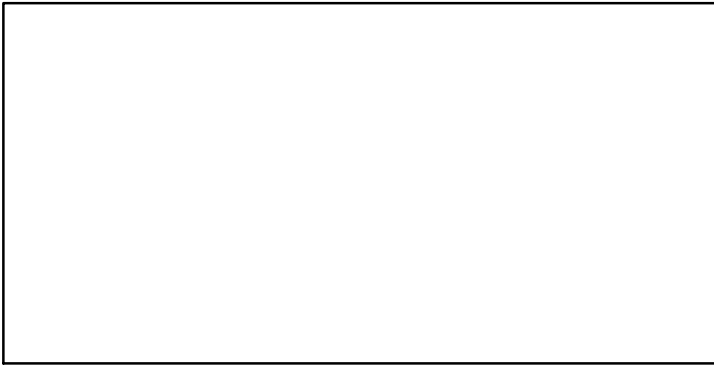
Production*



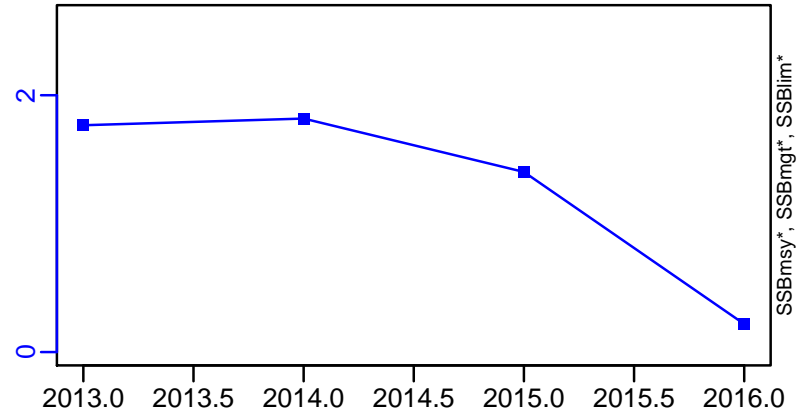
◆ Start Year ◆ End Year * No Data

Sprat Vilde [SPRATVilde]

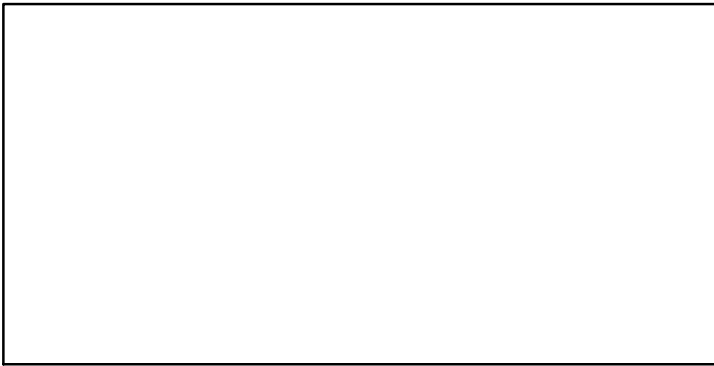
TB*



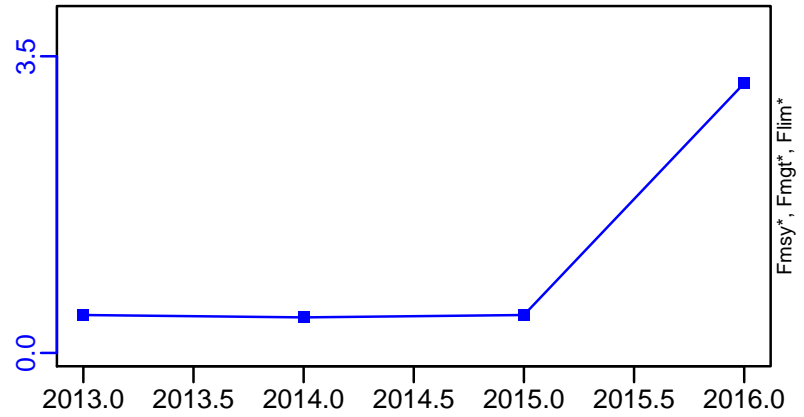
SSB-relative (1985–2016–ICESIMP2018)



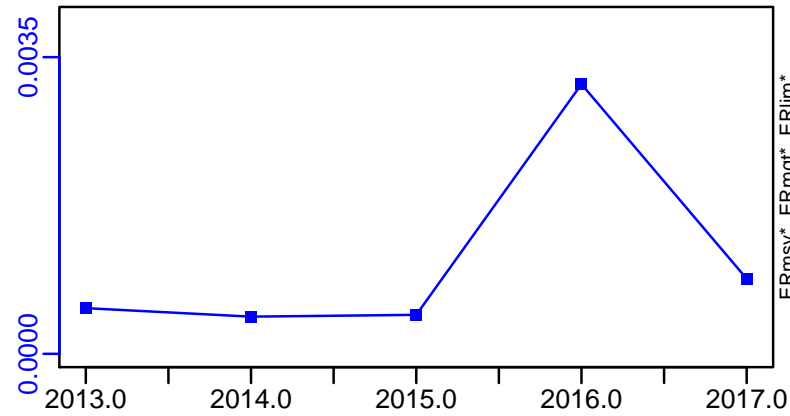
TN *



F-relative (1985–2016–ICESIMP2018)



ER-ratio (1985–2017–ICESIMP2018)

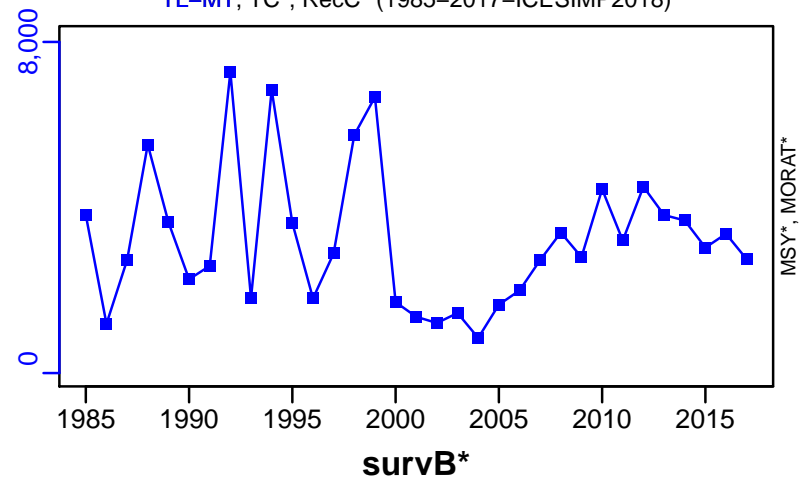


Recruits*

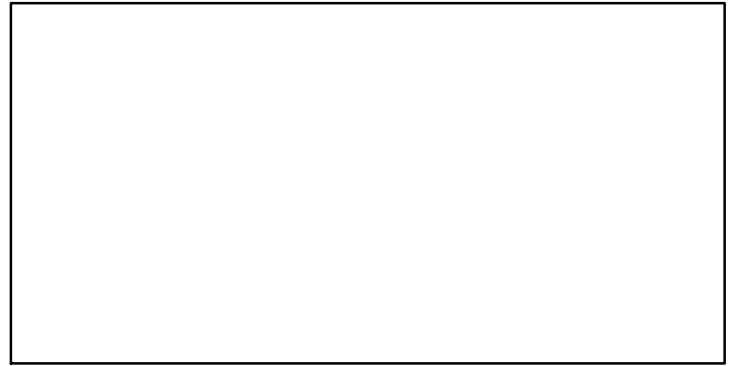


Sprat Vilde [SPRATVilde]

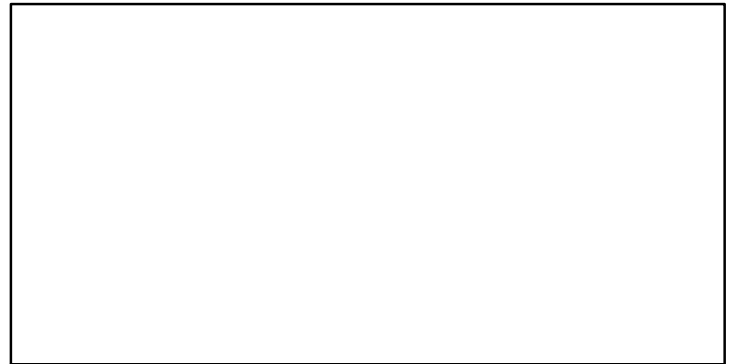
TL-MT, TC*, RecC* (1985–2017–ICESIMP2018)



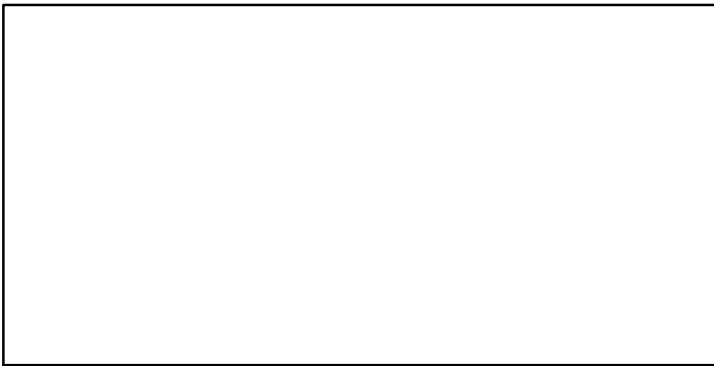
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

Sprat VI and VIIabcfghijk [SPRATVI-VIIabcfghijk]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATVI-VIIabcfghijk-1960-2016-ICESIMP2018
Area	VI and VIIabcfghijk
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	6880		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

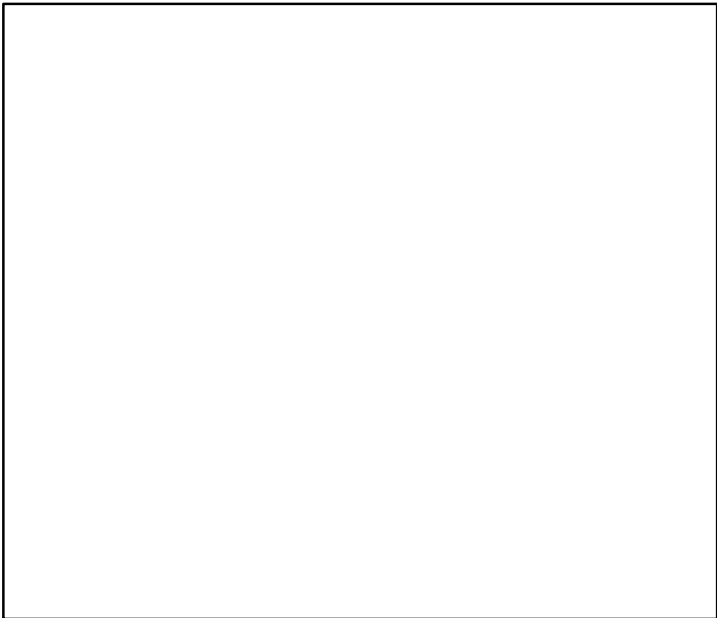
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

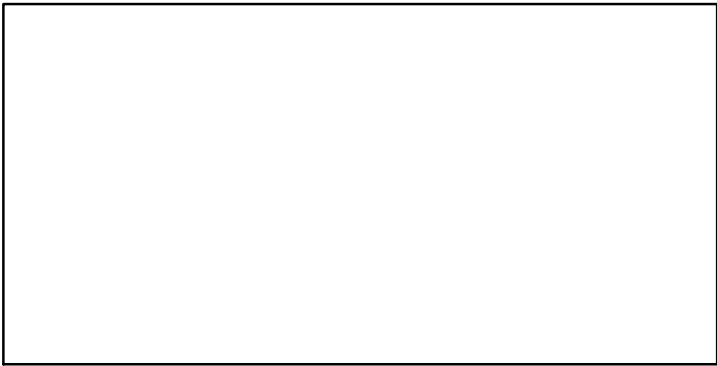
TB*



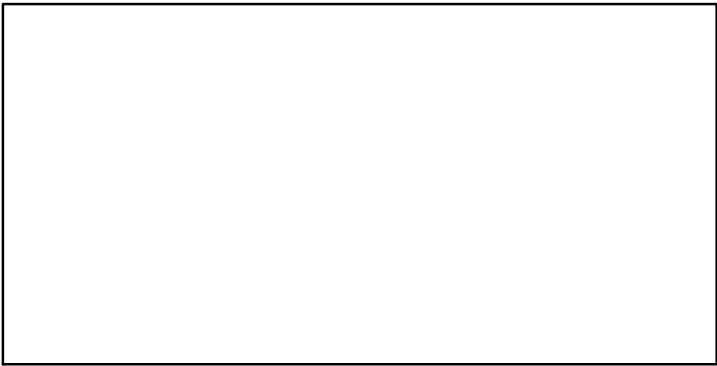
SSB*



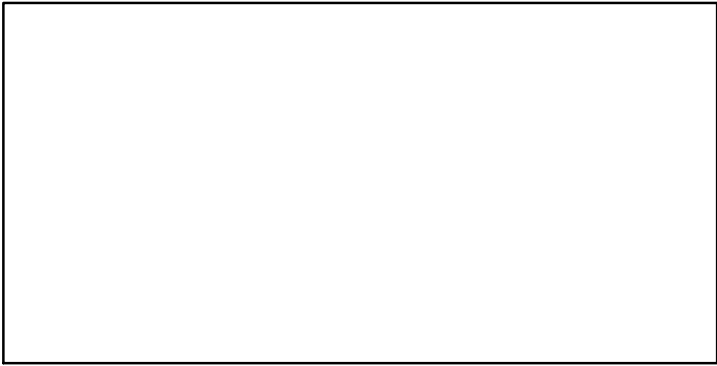
TN *



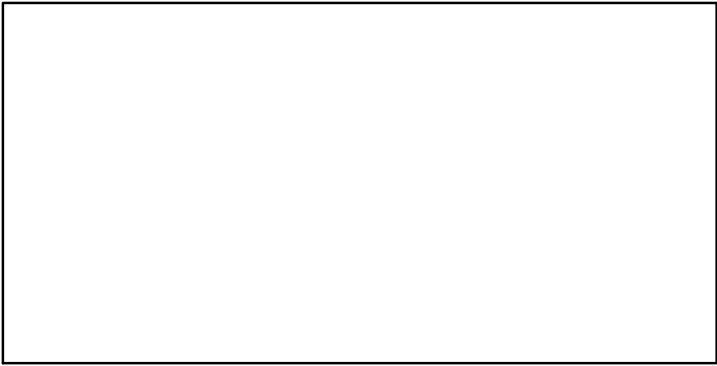
F*



ER*

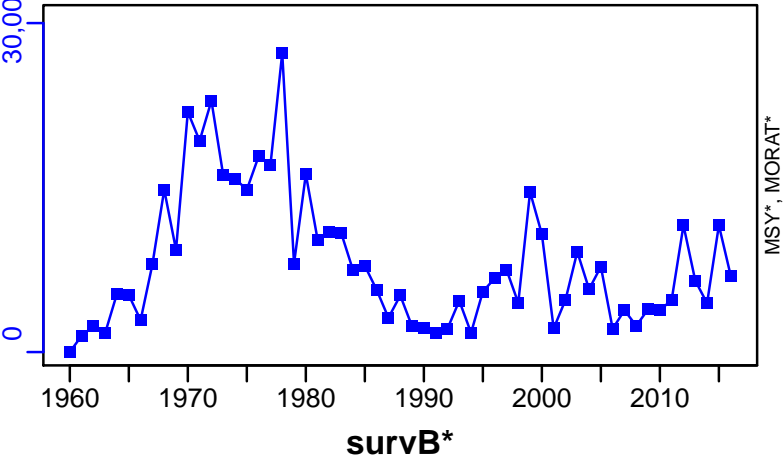


Recruits*



Sprat VI and VIIabcfghijk [SPRATVI-VIIabcfghijk]

TL-MT, TC*, RecC* (1960–2016–ICESIMP2018)



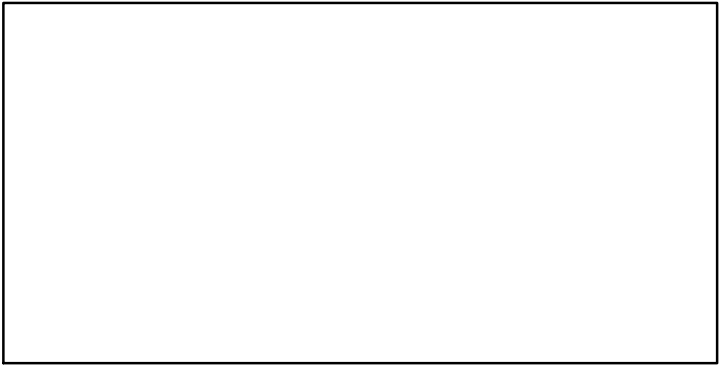
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



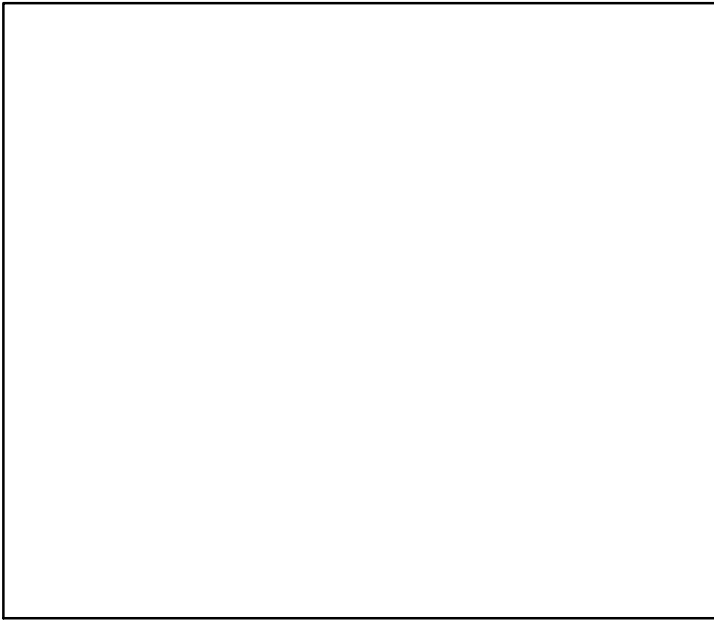
Spotted ray IIIa, VIId and North Sea [SPRAYIIIa-IV-VIId]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIIIa-IV-VIId-2009-2016-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

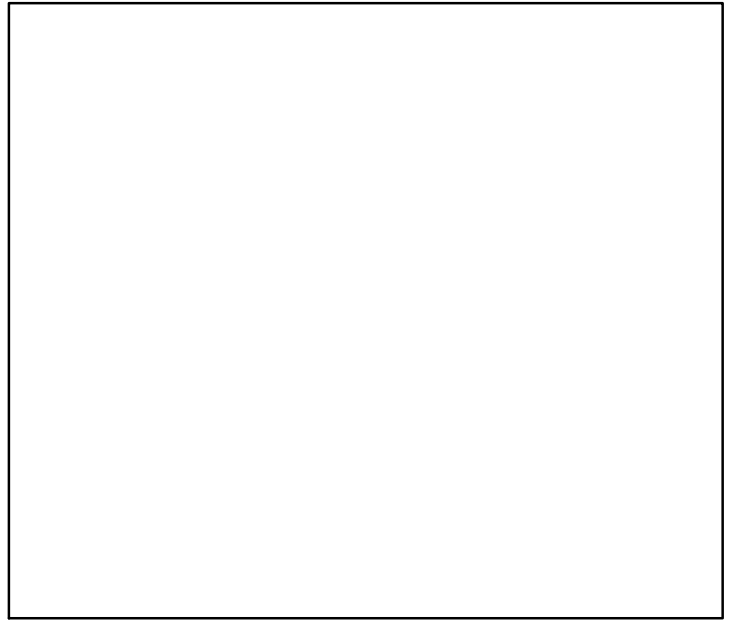
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2.05	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	223		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

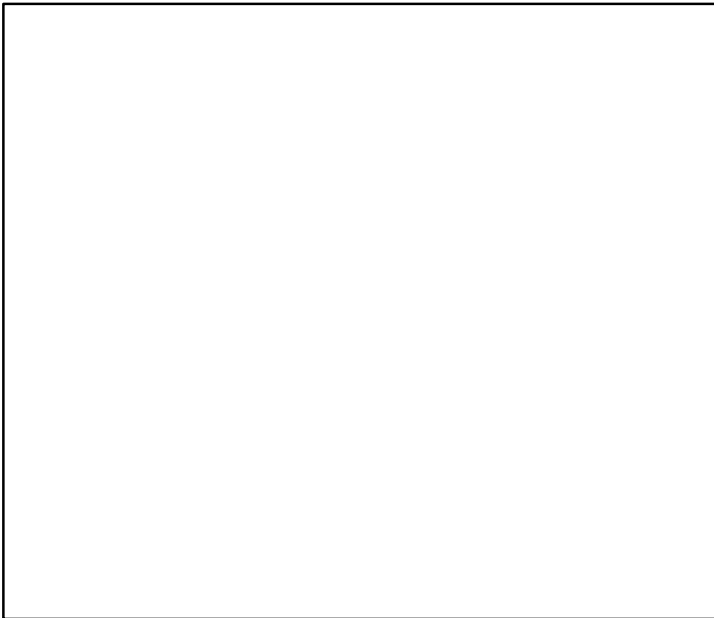
Kobe MSY*



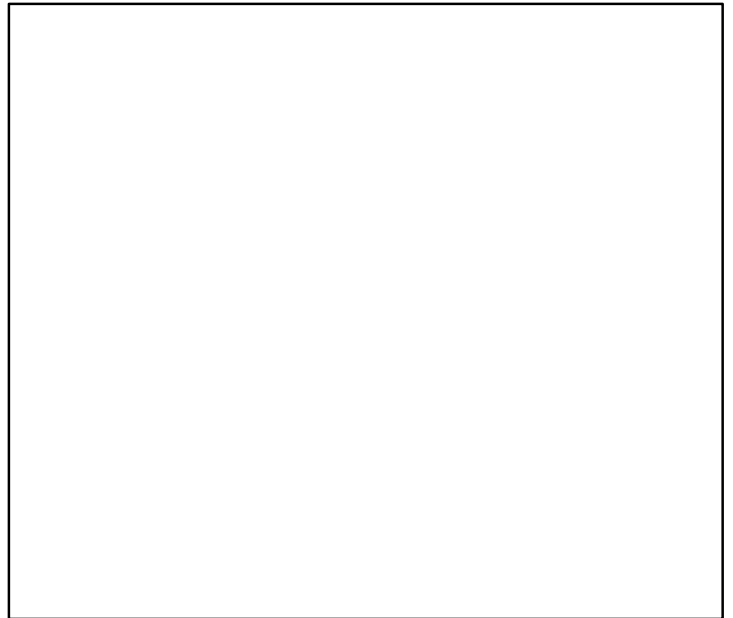
Kobe MGT*



Spawner Recruit*



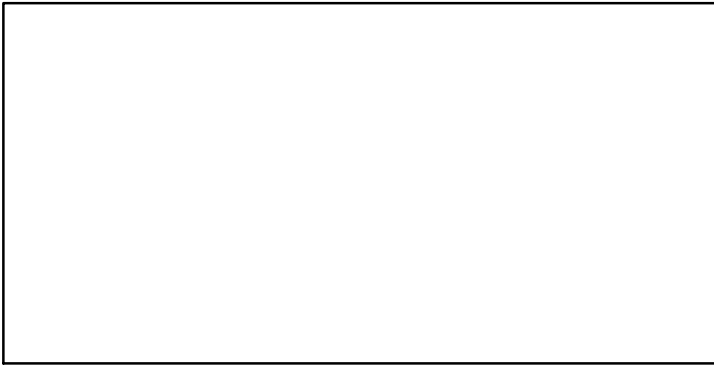
Production*



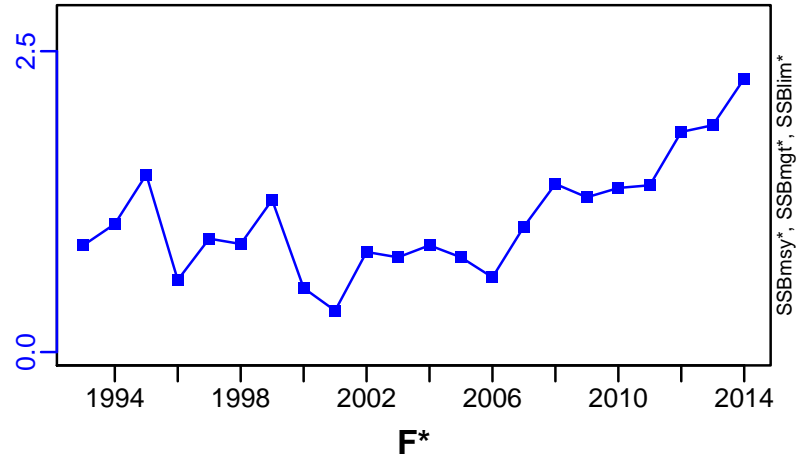
◆ Start Year ◆ End Year * No Data

Spotted ray IIIa, VIId and North Sea [SPRAYIIIa–IV–VIId]

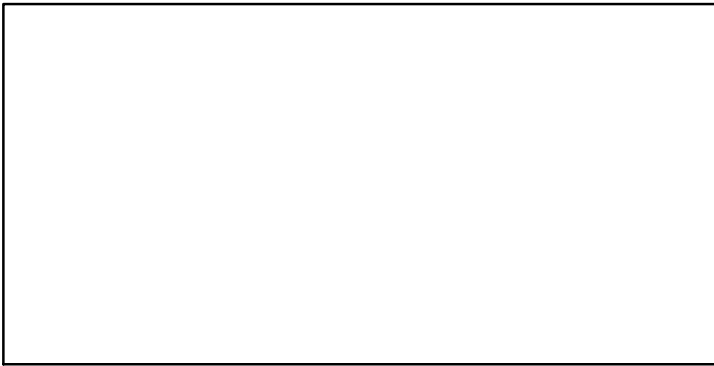
TB*



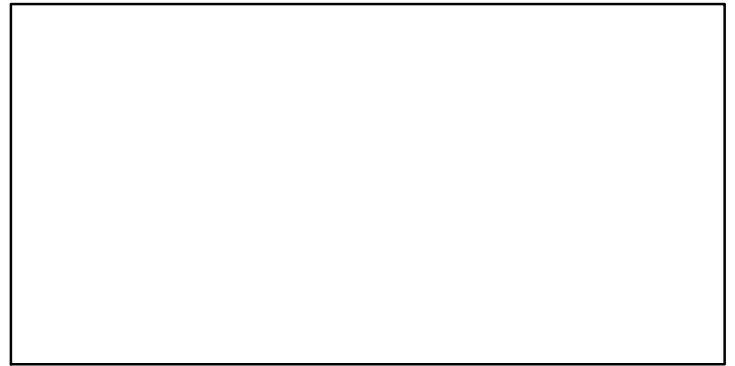
SSB-MT (1993–2014–ICESIMP2018)



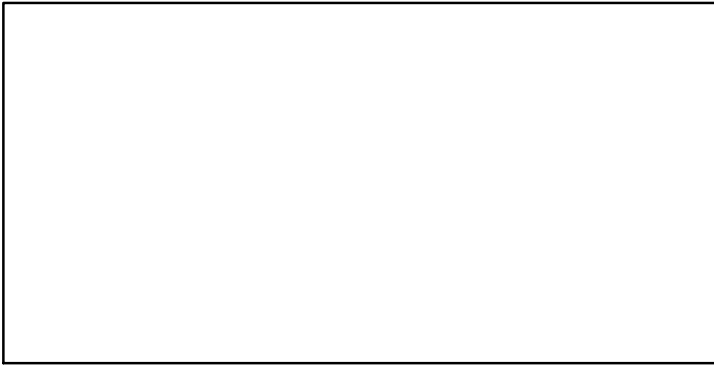
TN *



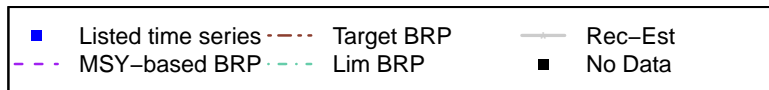
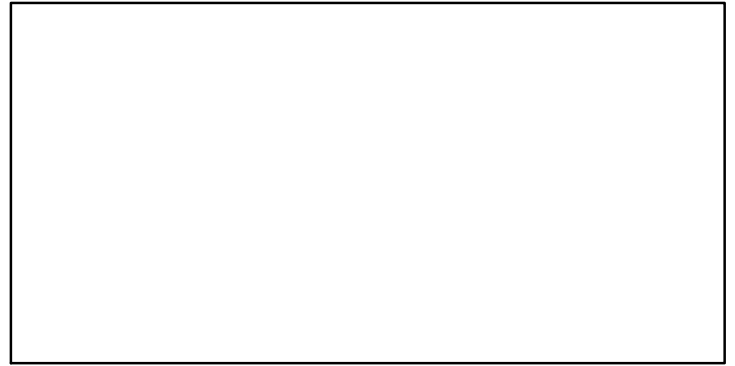
F*



ER*

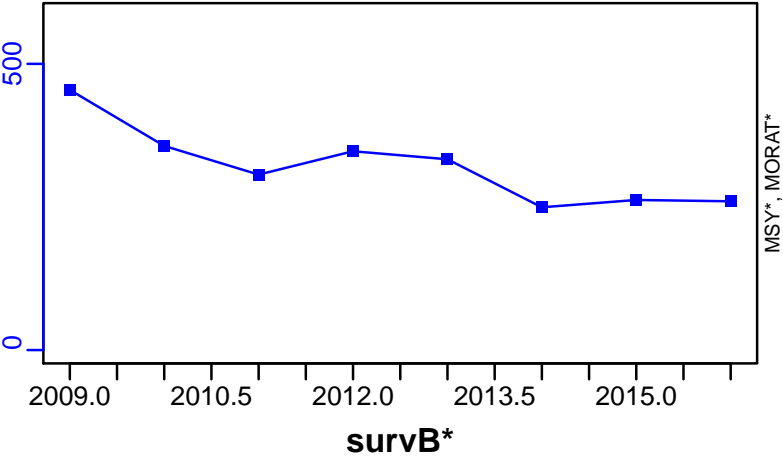


Recruits*

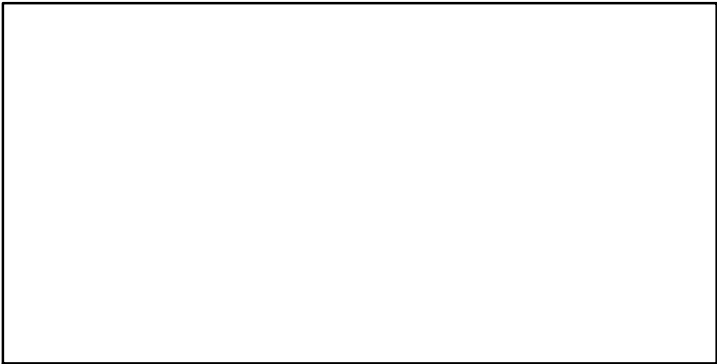


Spotted ray IIIa, VIId and North Sea [SPRAYIIIa–IV–VIId]

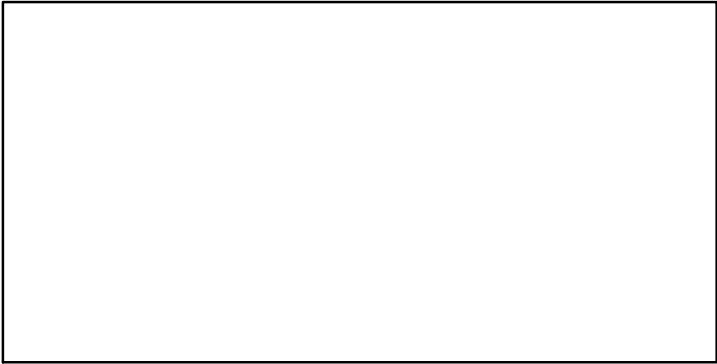
TL–MT, TC*, RecC* (2009–2016–ICESIMP2018)



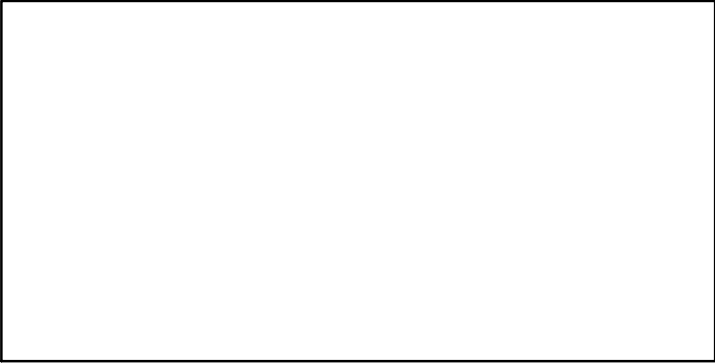
TAC*, Cpair*, Cadv*



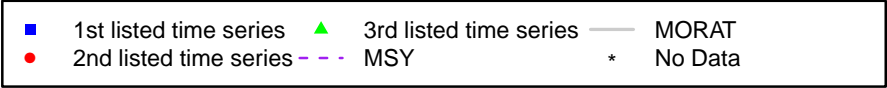
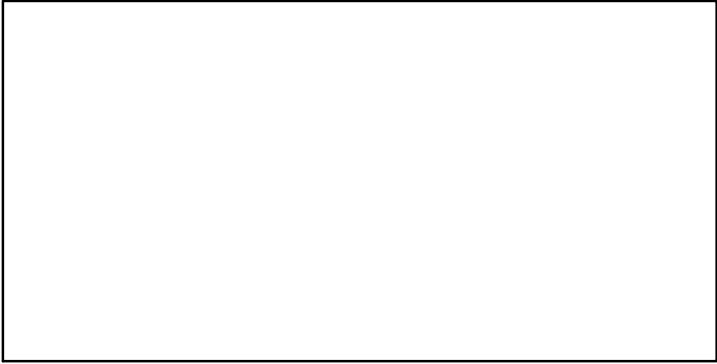
CPUE*



EFFORT*



CdivMSY*



Spotted ray Portuguese Waters -East [SPRAYIXa]

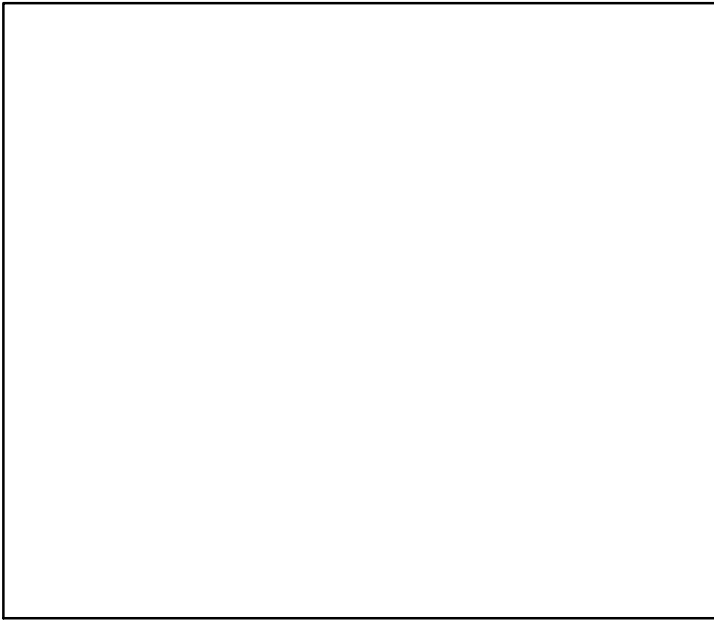
Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYIXa-2003-2015-ICESIMP2018
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

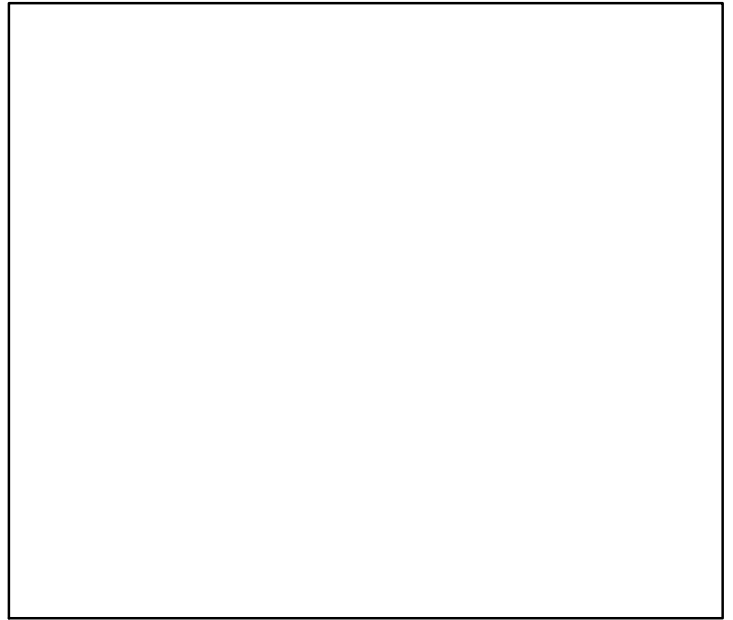
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	2.35	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	68		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spotted ray Portuguese Waters –East [SPRAYIXa]

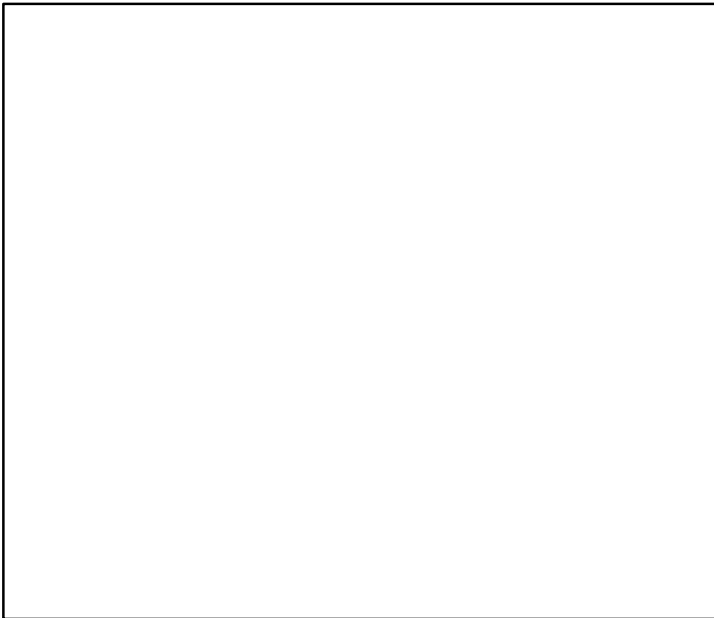
Kobe MSY*



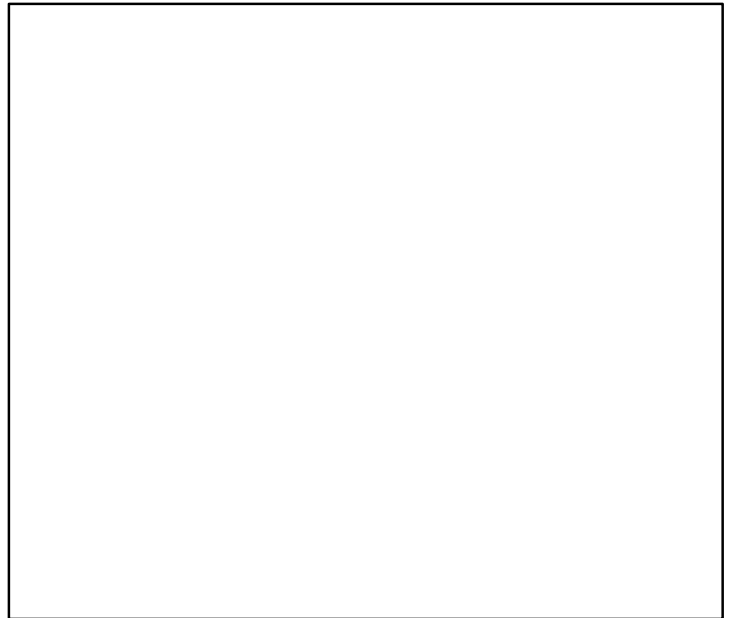
Kobe MGT*



Spawner Recruit*



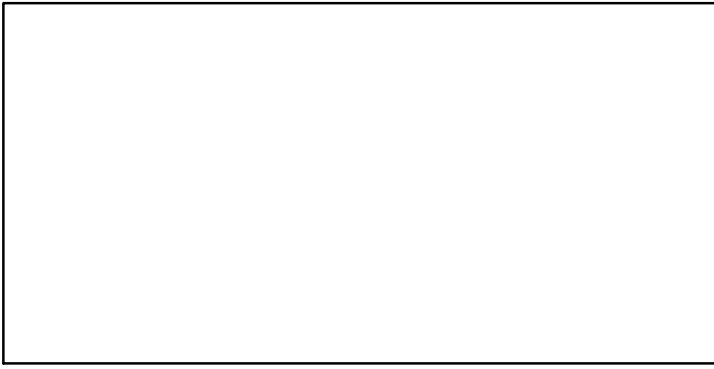
Production*



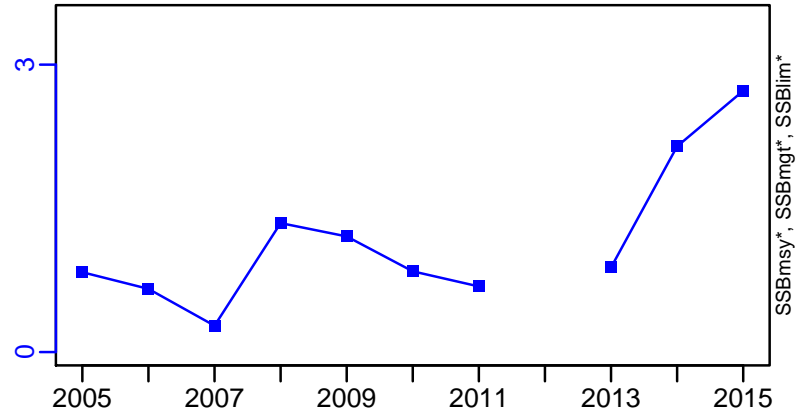
◆ Start Year ◆ End Year * No Data

Spotted ray Portuguese Waters –East [SPRAYIXa]

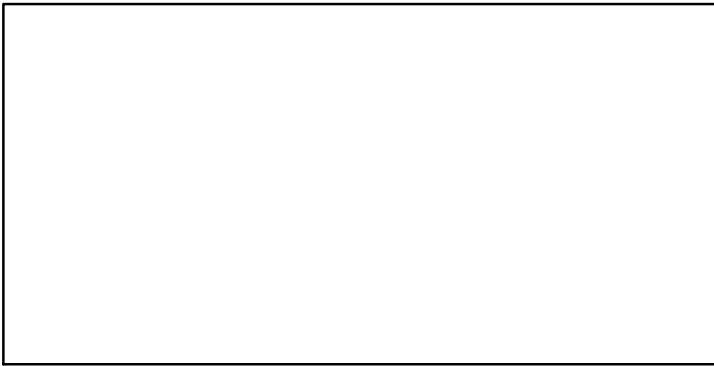
TB*



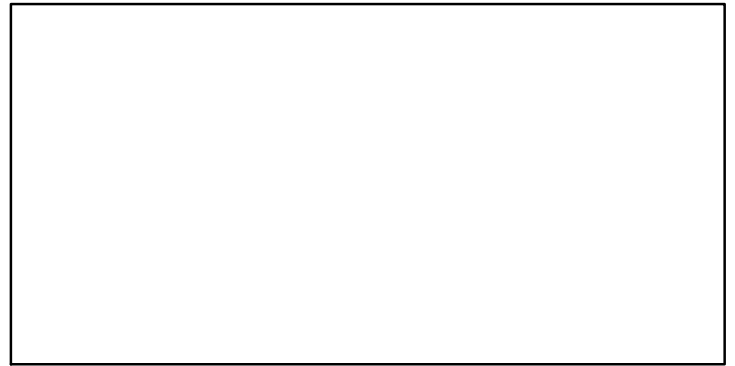
SSB-MT (2003–2015–ICESIMP2018)



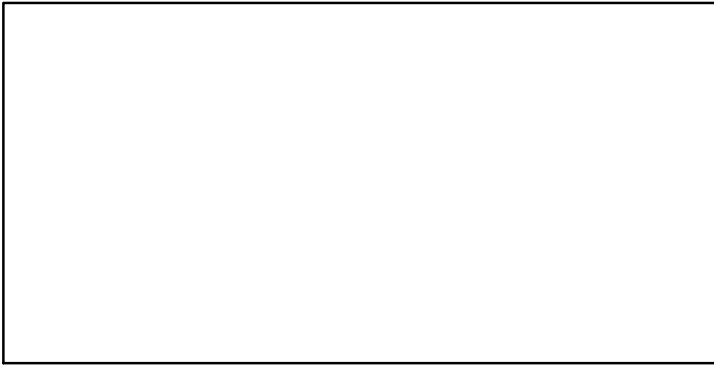
TN *



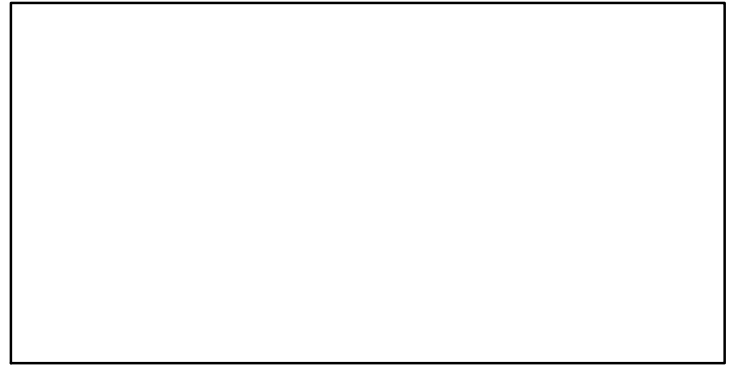
F*



ER*

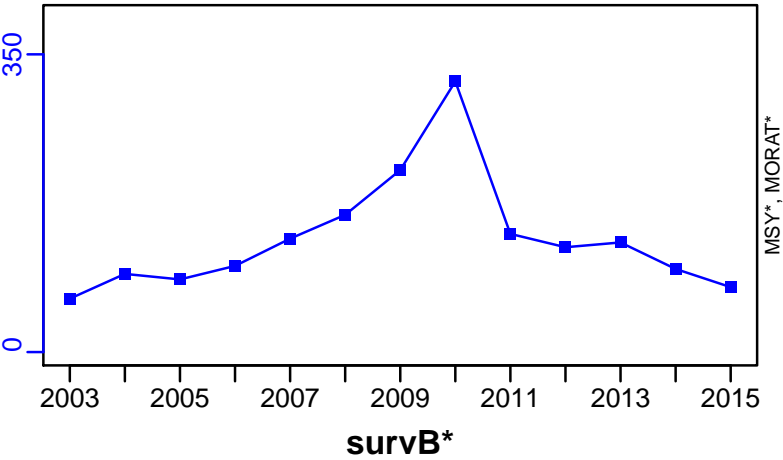


Recruits*



Spotted ray Portuguese Waters –East [SPRAYIXa]

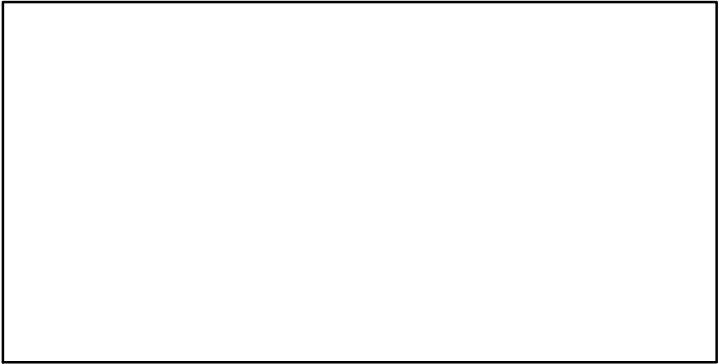
TL–MT, TC*, RecC* (2003–2015–ICESIMP2018)



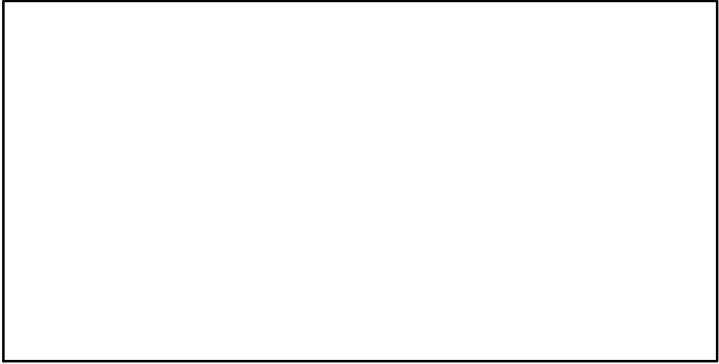
TAC*, Cpair*, Cadv*



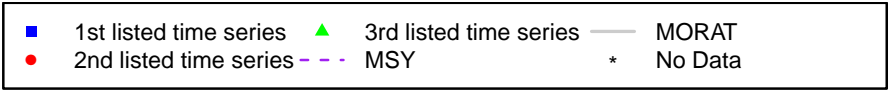
CPUE*



EFFORT*



CdivMSY*

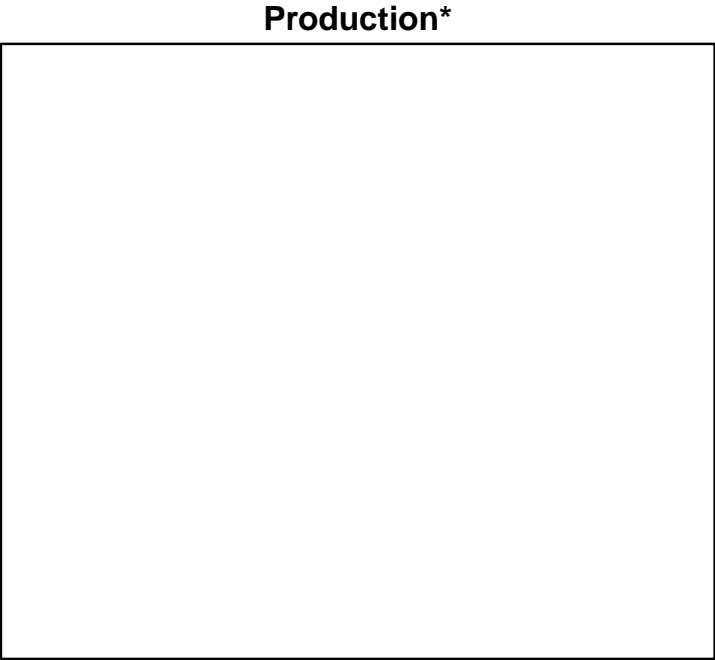
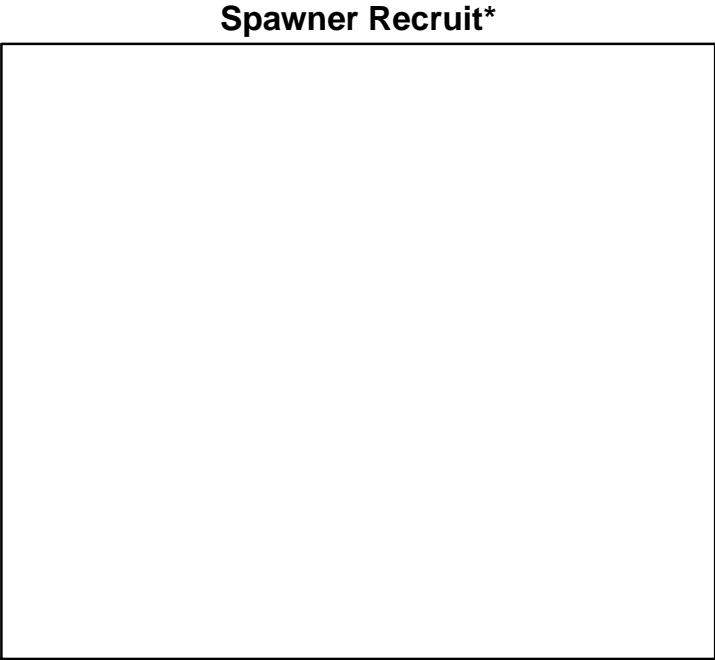
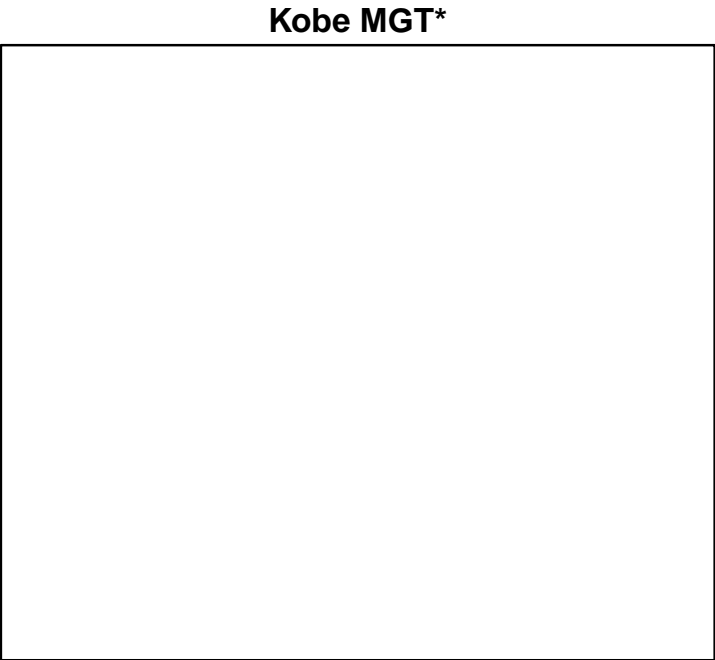
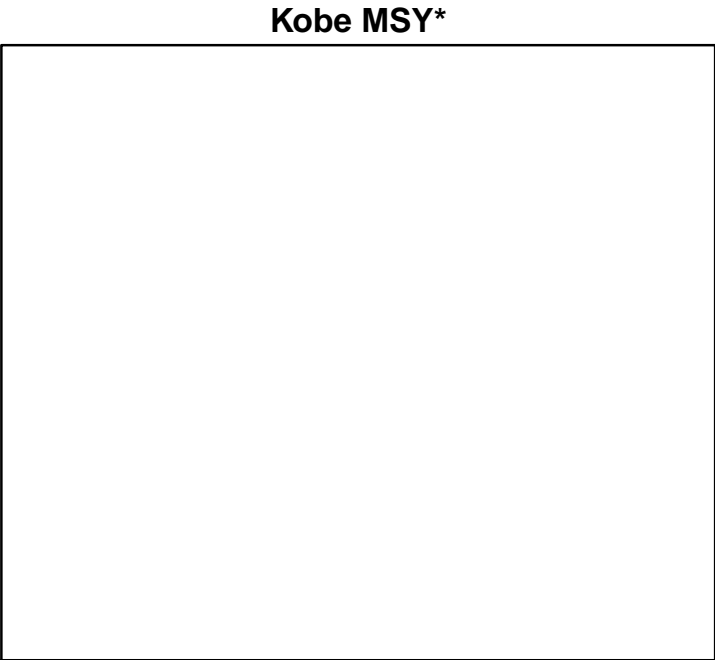


Spotted ray ICES VIIaefgh [SPRAYVIIaefgh]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVIIaefgh-1993-2015-ICESIMP2018
Area	ICES VIIaefgh
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	-	-	-

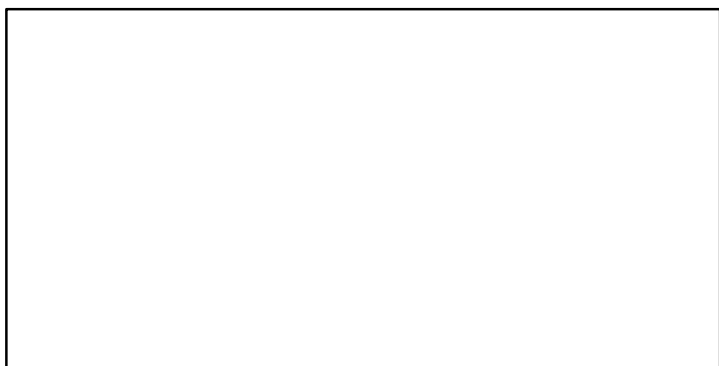
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	7	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	837		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



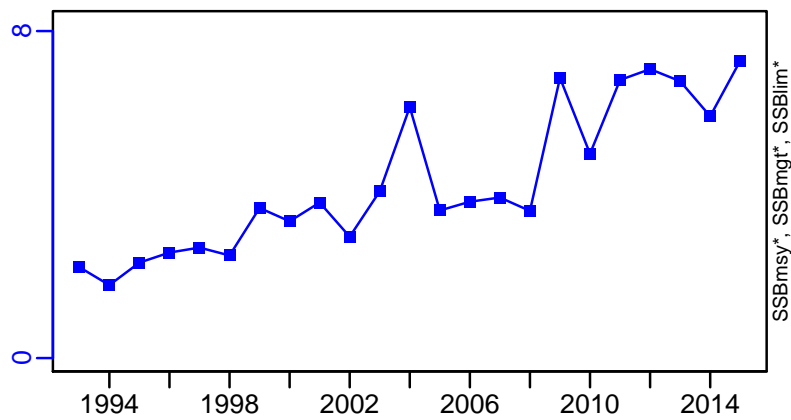
◆ Start Year ◆ End Year * No Data

Spotted ray ICES VIIaefgh [SPRAYVIIaefgh]

TB*



SSB-MT (1993–2015–ICESIMP2018)



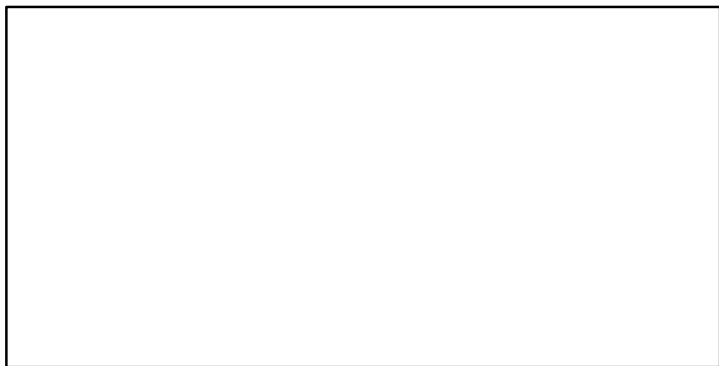
TN *



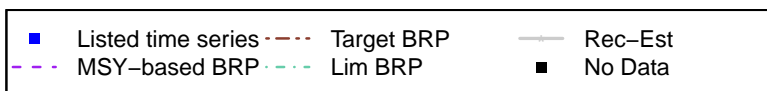
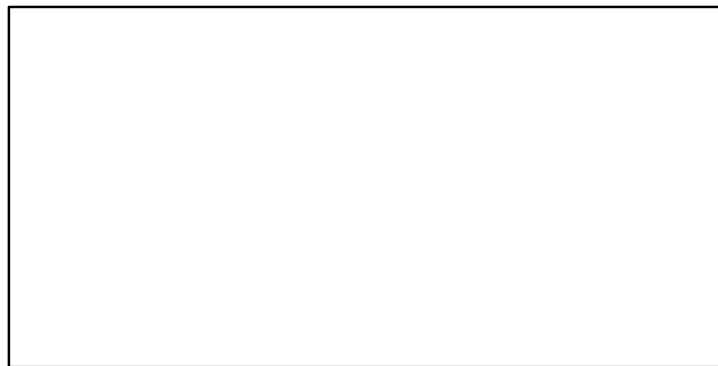
F*



ER*



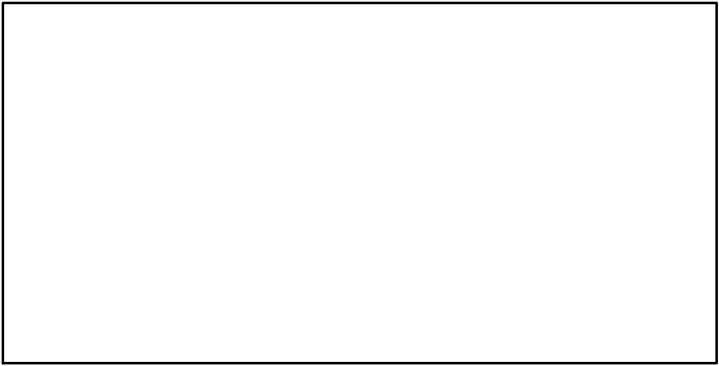
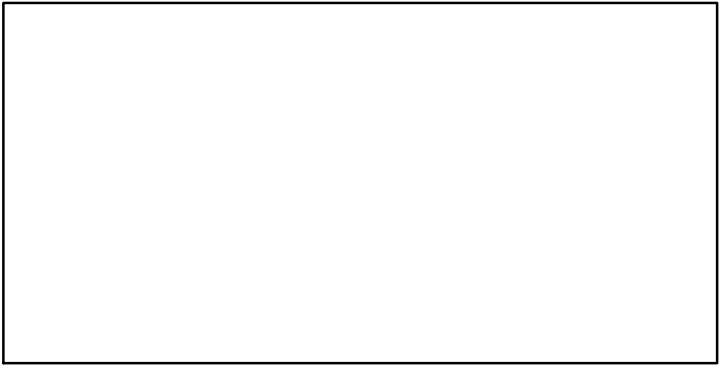
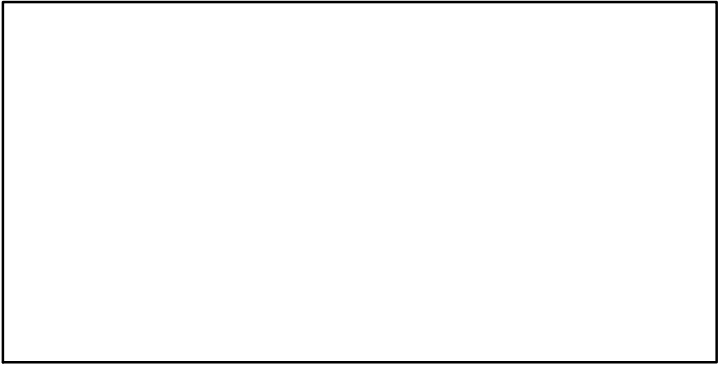
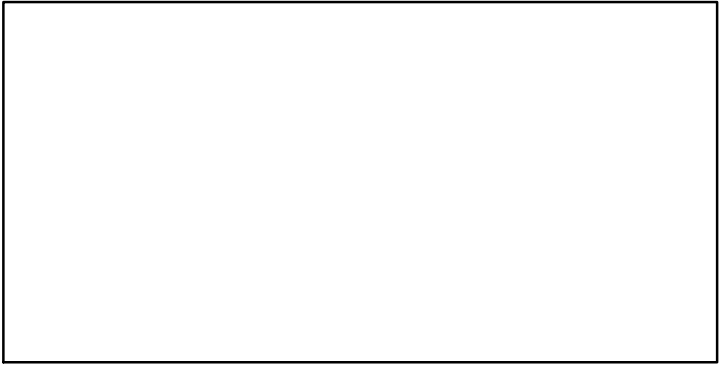
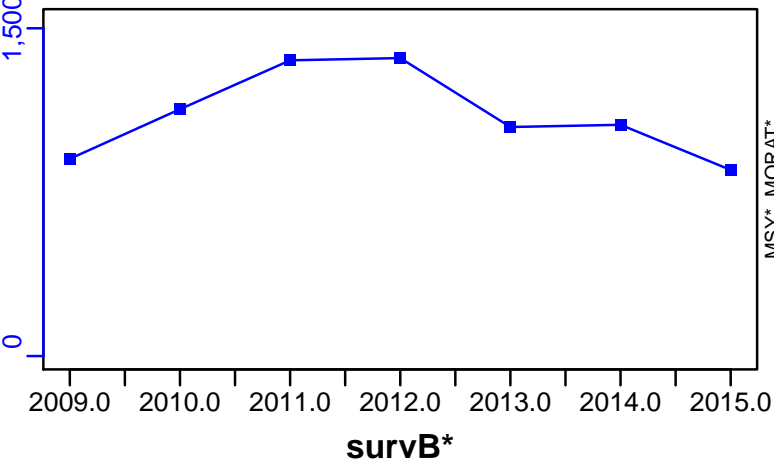
Recruits*



Spotted ray ICES Villaefgh [SPRAYVillaefgh]

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

TAC*, Cpair*, Cadv*



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-MT	2015	1.29	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	176		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

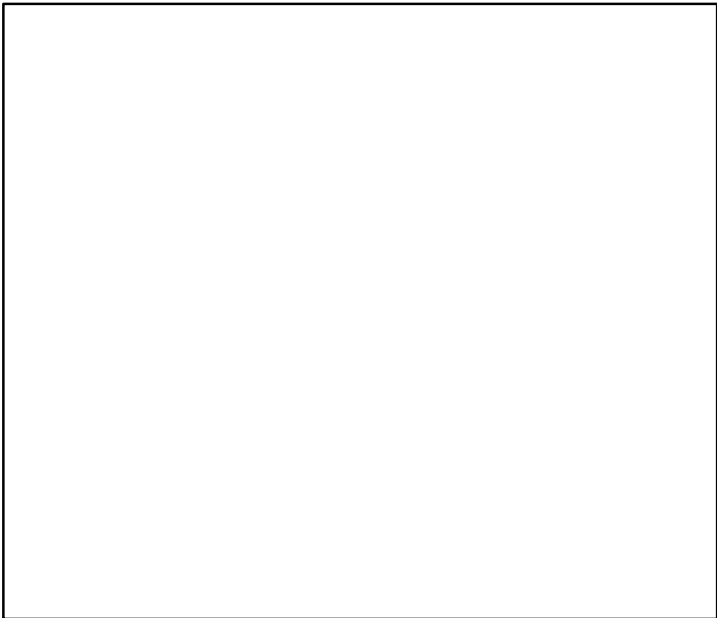
Kobe MSY*



Kobe MGT*



Spawner Recruit*



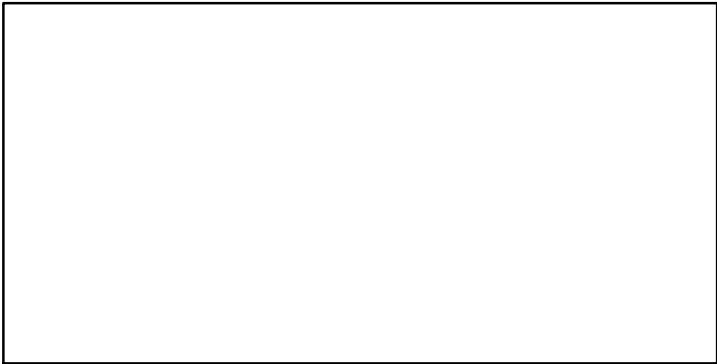
Production*



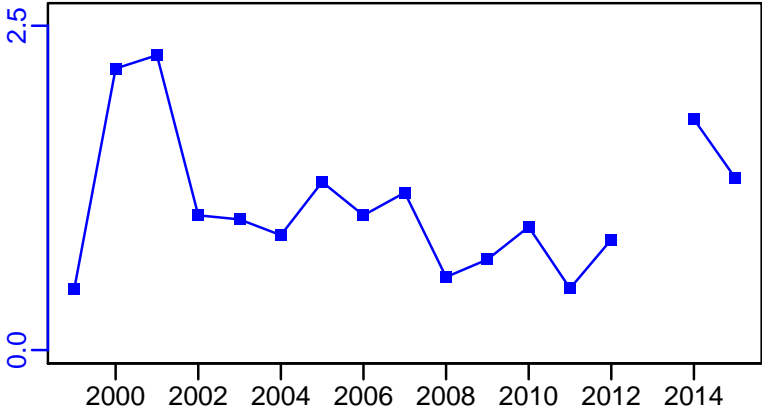
◆ Start Year ◆ End Year * No Data

Spotted ray Bay of Biscay [SPRAYVIII]

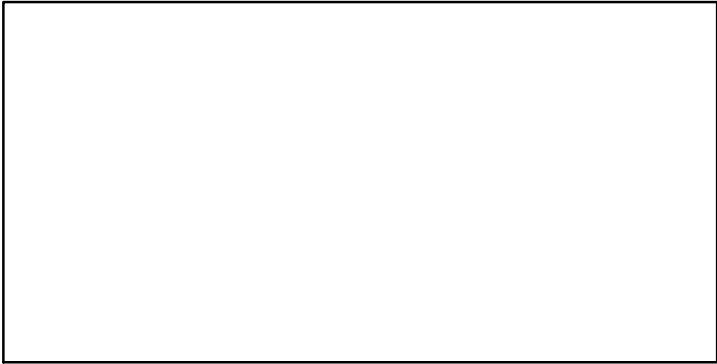
TB*



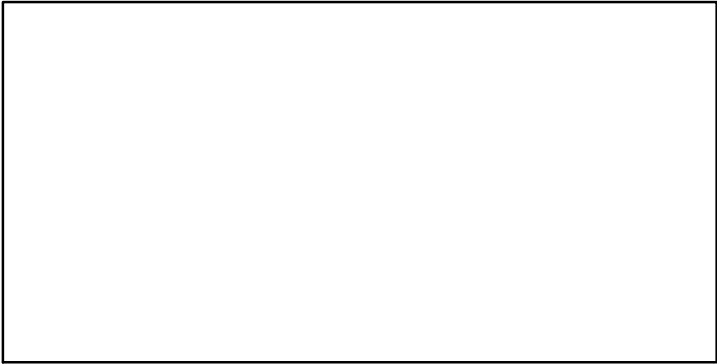
SSB-MT (1999–2015–ICESIMP2018)



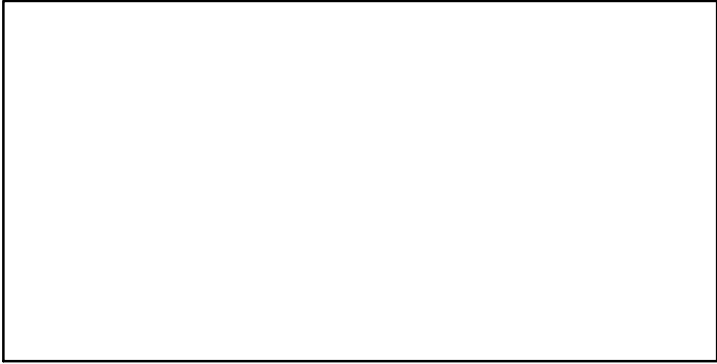
TN *



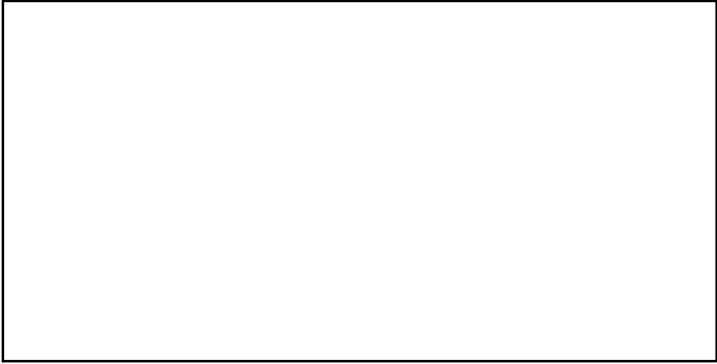
F*



ER*



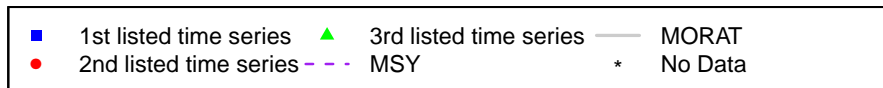
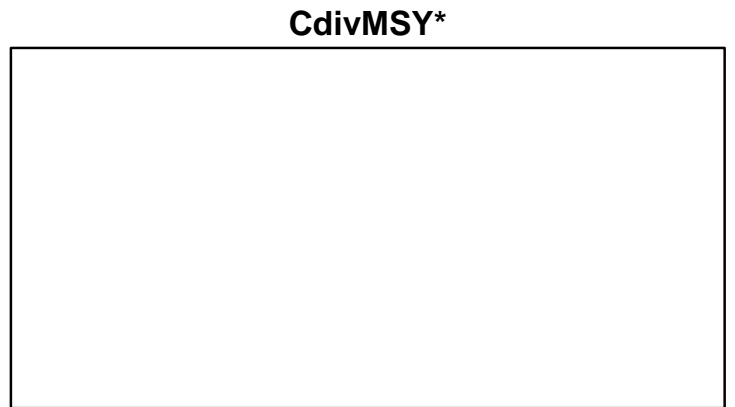
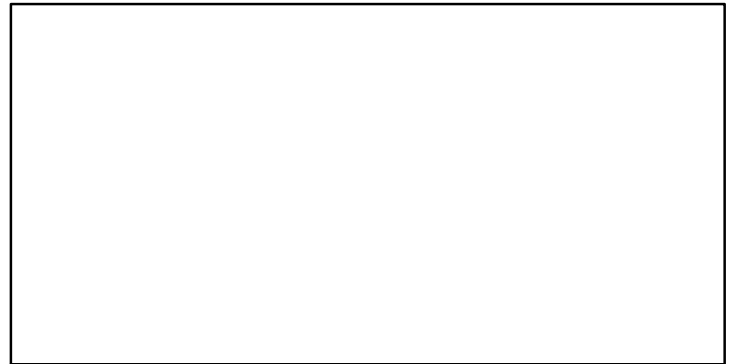
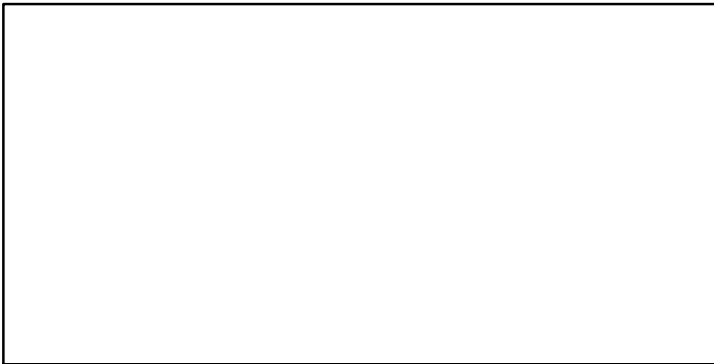
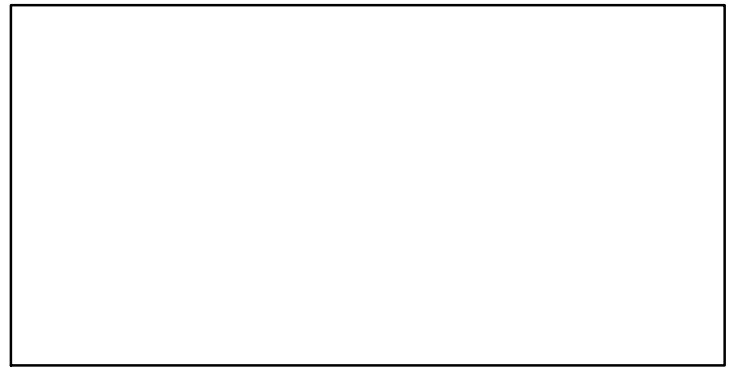
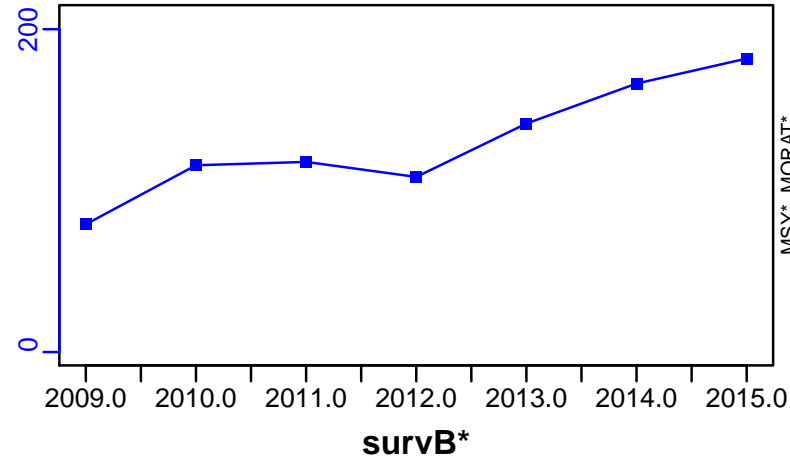
Recruits*



Spotted ray Bay of Biscay [SPRAYVIII]

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

TAC*, Cpair*, Cadv*



Spotted ray ICES VI-VIIbj [SPRAYVI-VIIbj]

Metadata	
Scientific Name	Raja montagui
Current Assess ID	WGEF-SPRAYVI-VIIbj-2005-2015-ICESIMP2018
Area	ICES VI-VIIbj
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-MT	2015	9	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	119		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

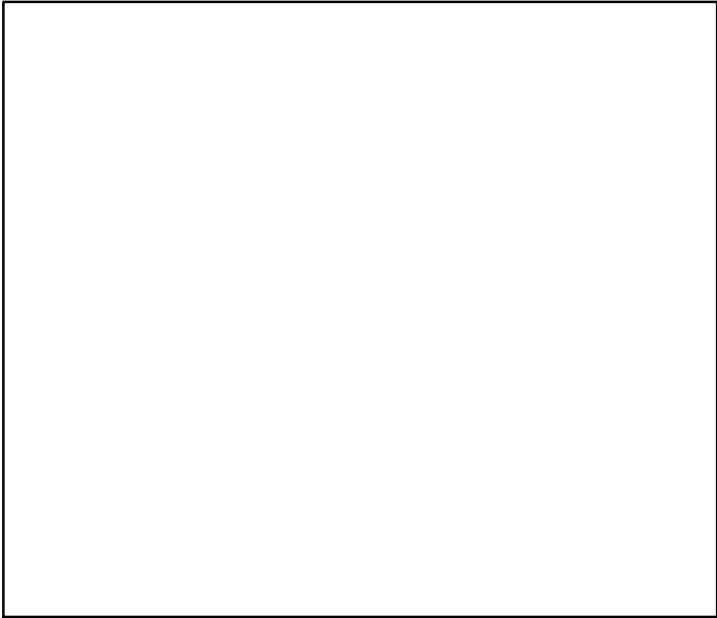
Kobe MSY*



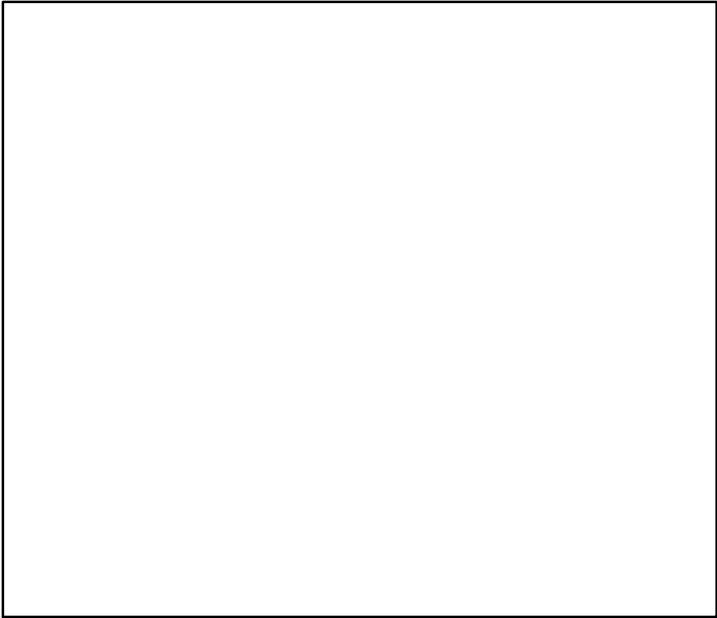
Kobe MGT*



Spawner Recruit*



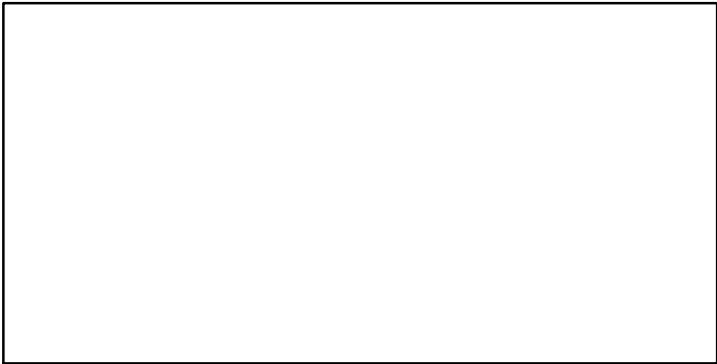
Production*



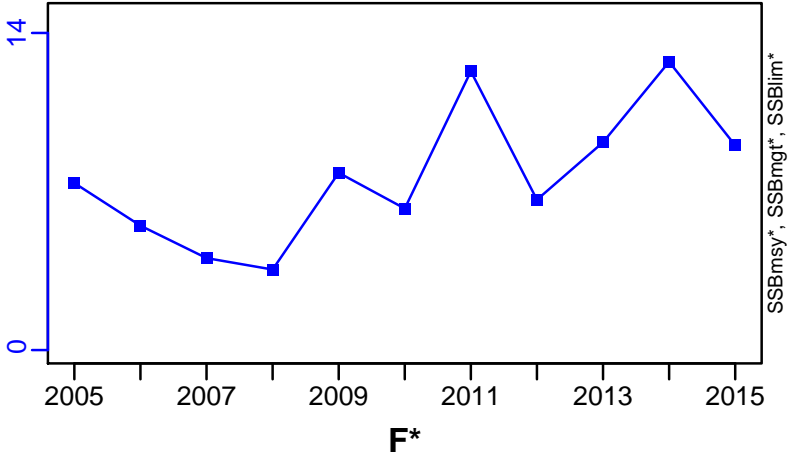
◆ Start Year ◆ End Year * No Data

Spotted ray ICES VI-VIIbj [SPRAYVI-VIIbj]

TB*



SSB-MT (2005-2015-ICESIMP2018)



TN *



F*



ER*

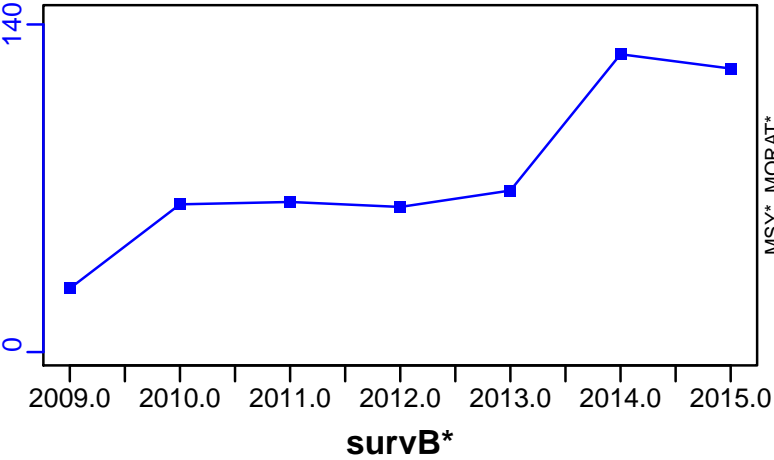


Recruits*



Spotted ray ICES VI–VIIbj [SPRAYVI–VIIbj]

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



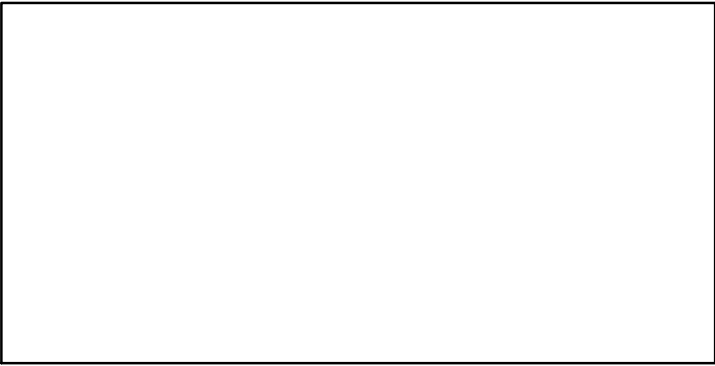
TAC*, Cpair*, Cadv*



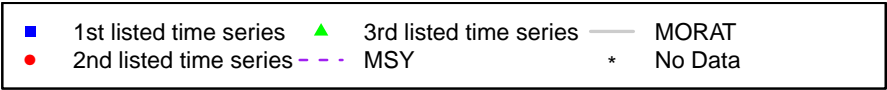
CPUE*



EFFORT*



CdivMSY*



Spurdog Northeast Atlantic [SPURDNEATL]

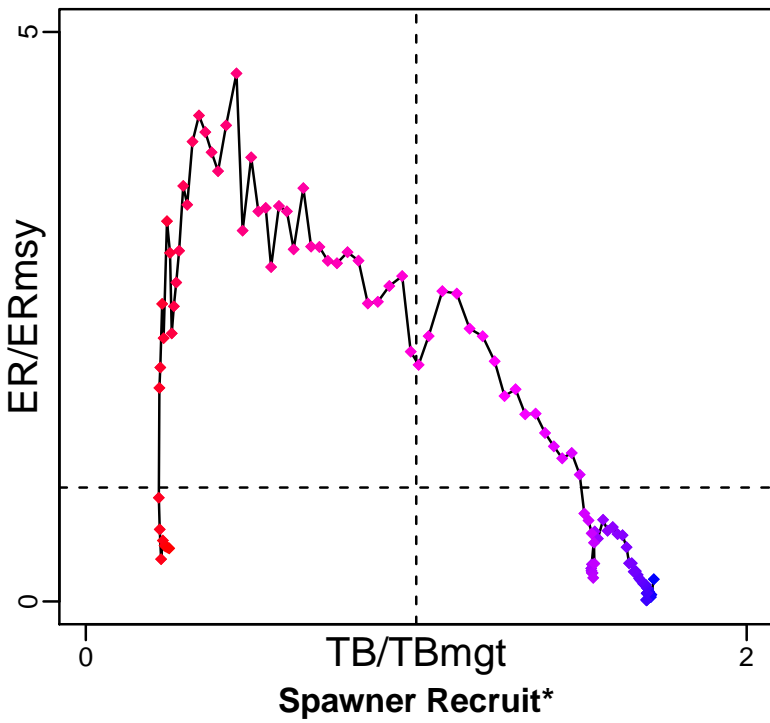
Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	WGEF-SPURDNEATL-1905-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.029
TBmgt	TBmgt-MT	2016	964,563
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.029
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

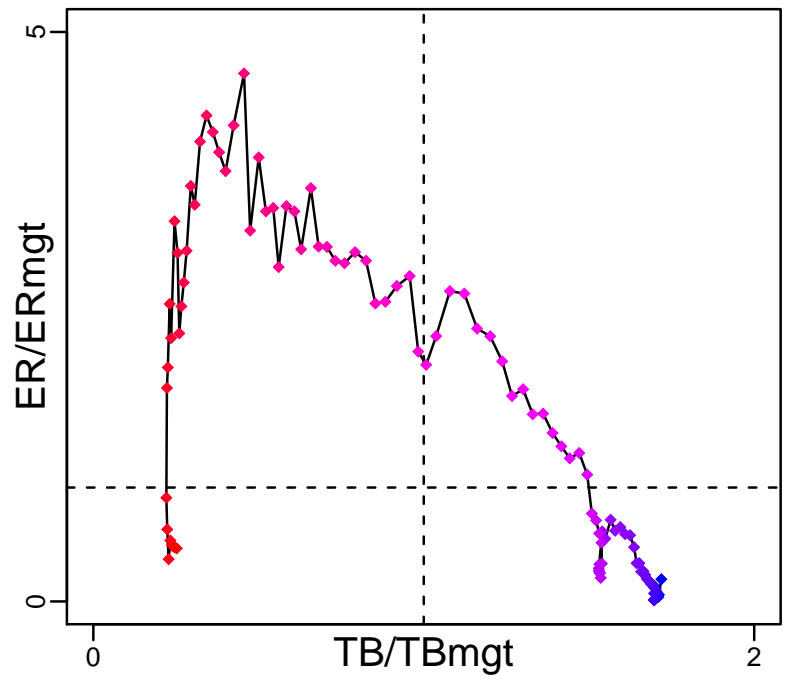
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	51,000	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2016	121,000	-	0
F	F-1/yr	2016	0.012	-	-
ER	ER-calc-ratio	2016	0.062	-	-
TC	TC-MT	2014	2380		
TL	TL-MT	2016	2640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.466		
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.053		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spurdog Northeast Atlantic [SPURDNEATL]

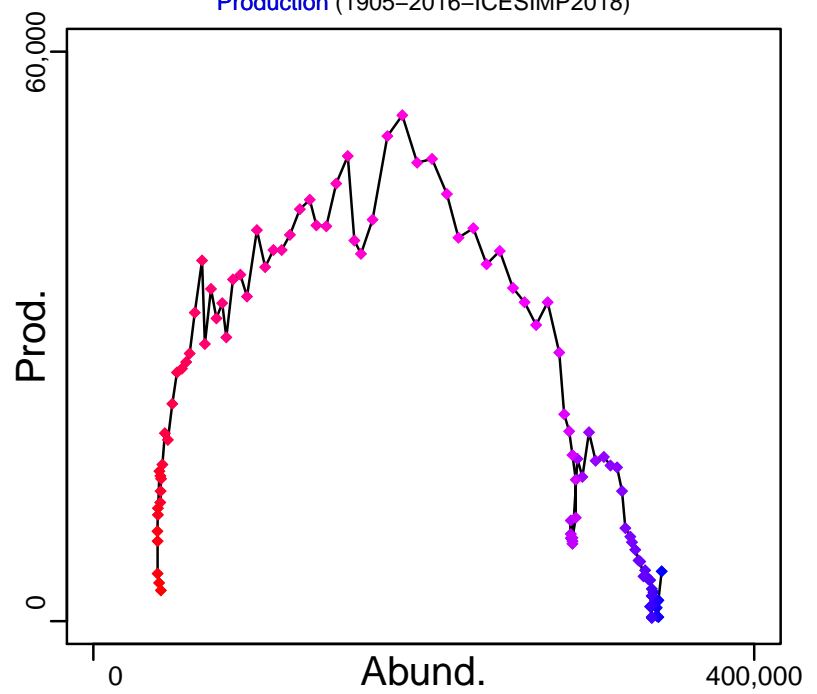
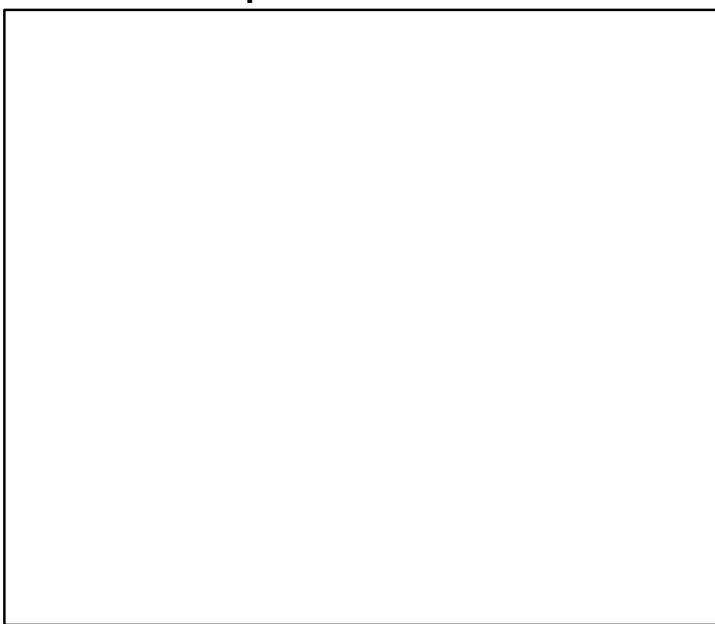
Kobe MSYpref (1905–2014–ICESIMP2016)



Kobe MGTpref (1905–2014–ICESIMP2016)



Production (1905–2016–ICESIMP2018)

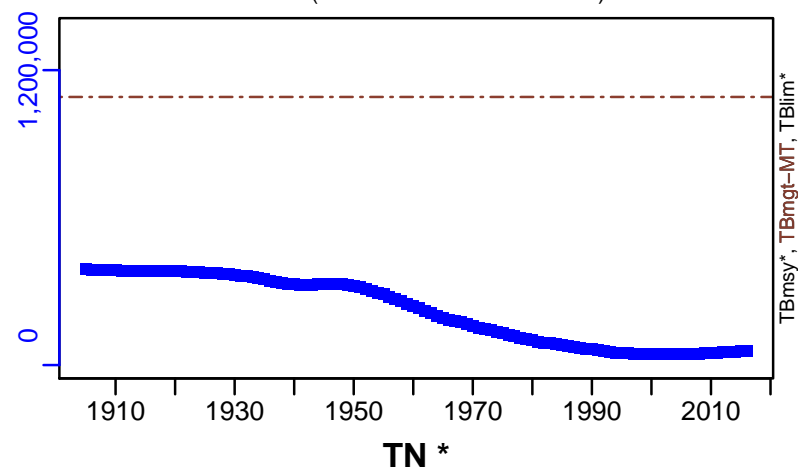


◆ Start Year ◆ End Year * No Data

Spurdog Northeast Atlantic [SPURDNEATL]

TB-MT (1905-2016-ICESIMP2018)

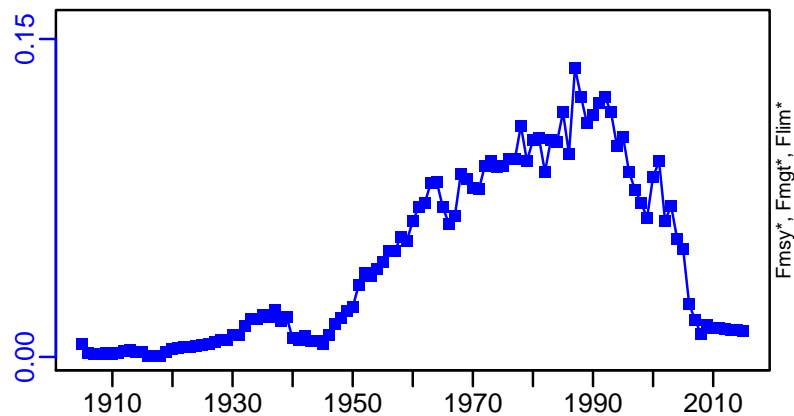
SSB*



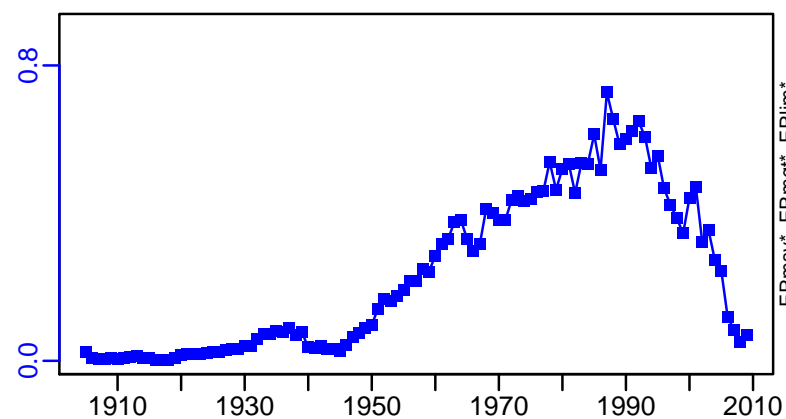
TN *



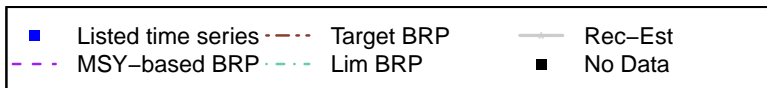
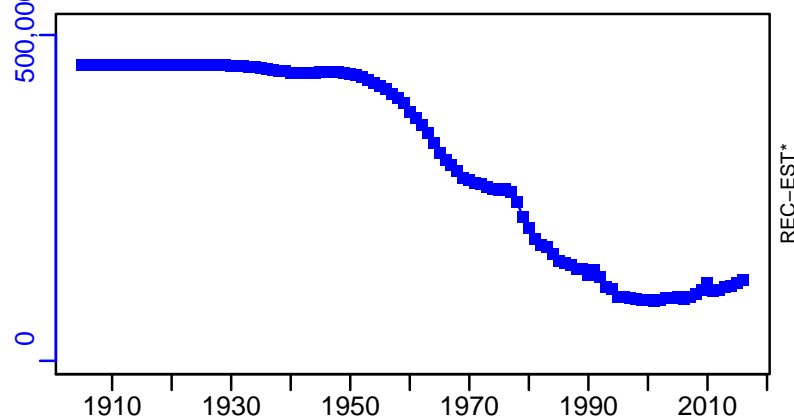
F-1/yr (1905-2016-ICESIMP2018)



ER-calc-ratio (1905-2016-ICESIMP2018)



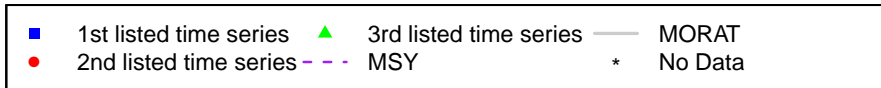
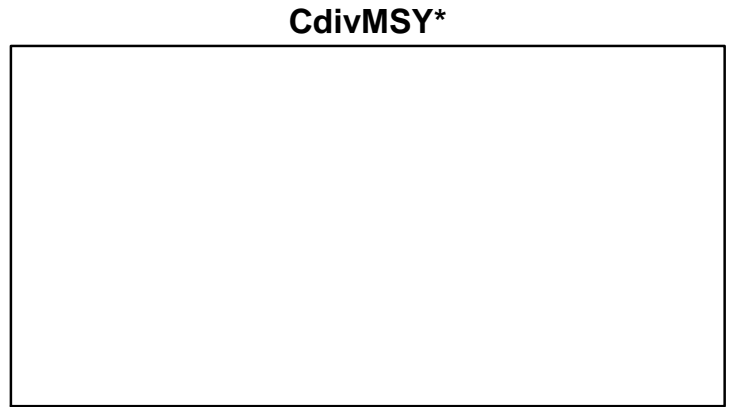
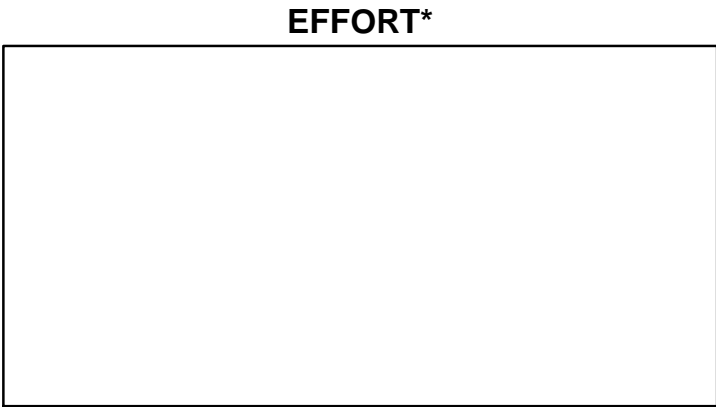
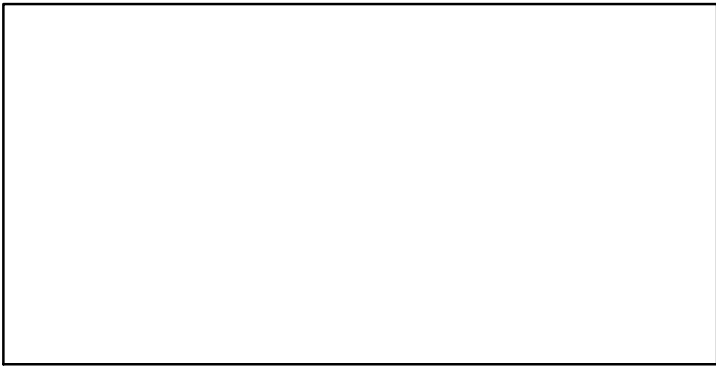
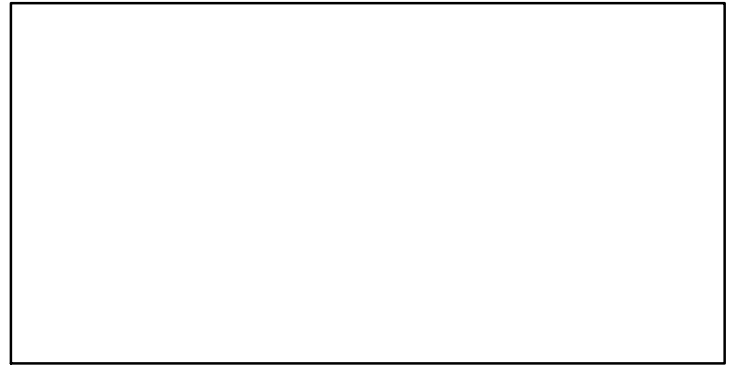
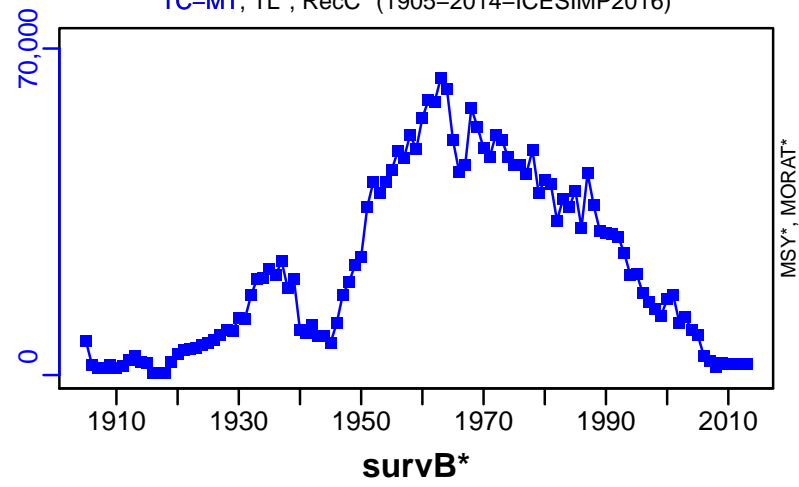
R-E00 (1905-2016-ICESIMP2018)



Spurdog Northeast Atlantic [SPURDNEATL]

TC-MT, TL*, RecC* (1905–2014–ICESIMP2016)

TAC*, Cpair*, Cadv*



Starry ray ICES II-IIIa-IV [STRAYII-IIIa-IV]

Metadata	
Scientific Name	Amblyraja radiata
Current Assess ID	WGEF-STRAYII-IIIa-IV-1991-2014-ICESIMP2018
Area	ICES II-IIIa-IV
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	0.41	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

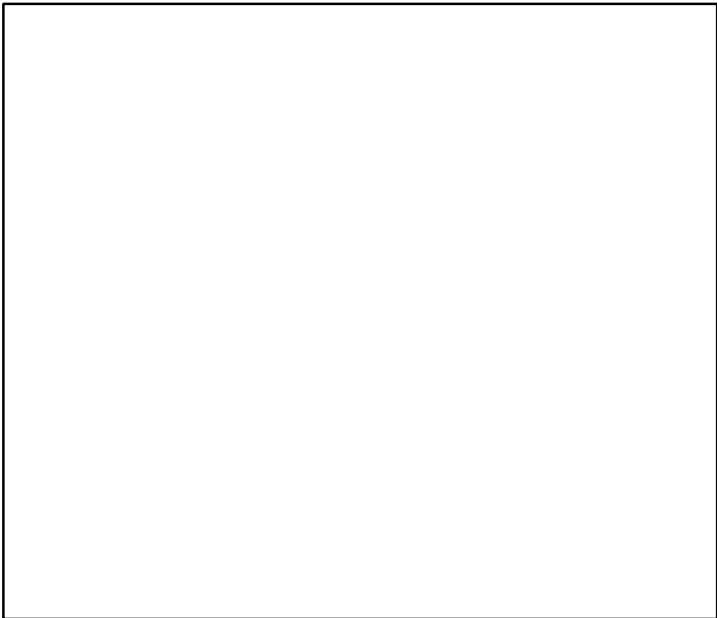
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



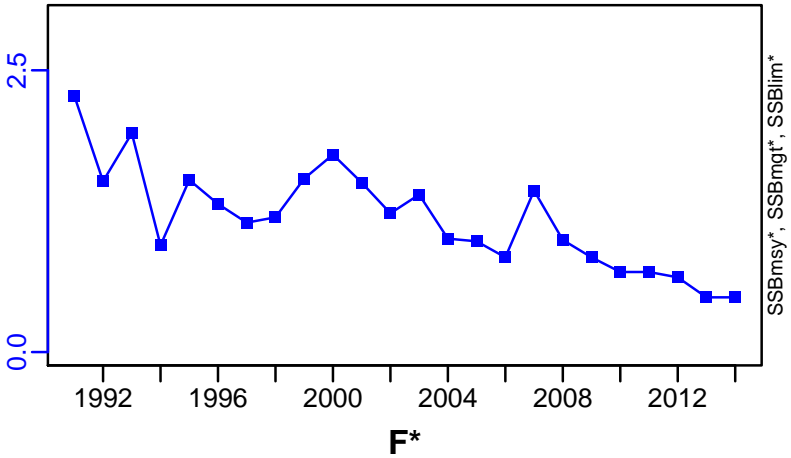
◆ Start Year ◆ End Year * No Data

Starry ray ICES II-IIIa-IV [STRAYII-IIIa-IV]

TB*



SSB-MT (1991–2014–ICESIMP2018)



TN *



F*



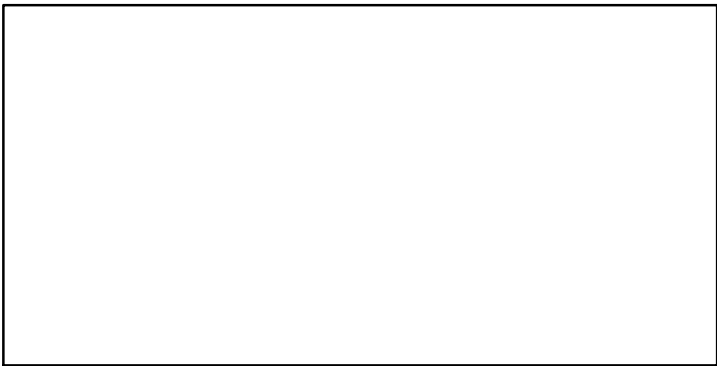
ER*



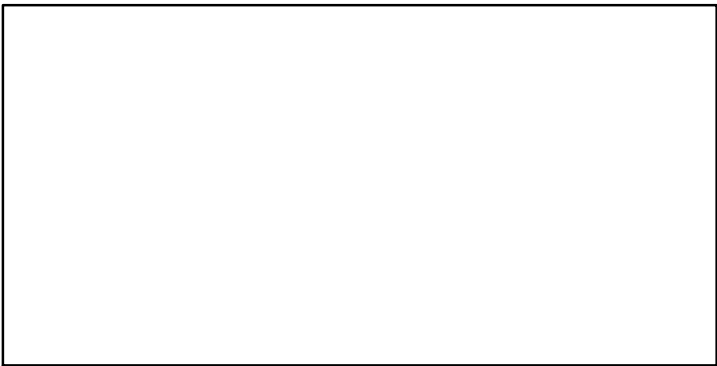
Recruits*



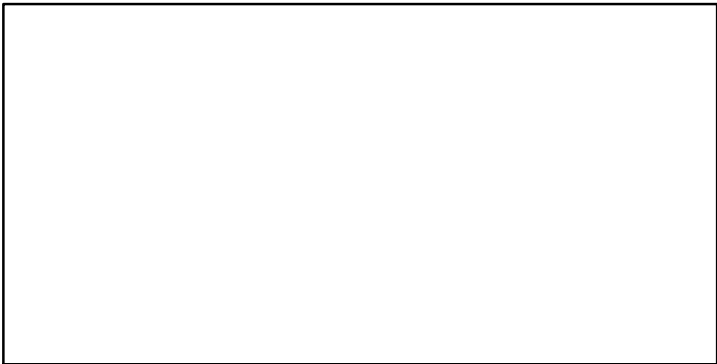
TC*, TL*, RecC*



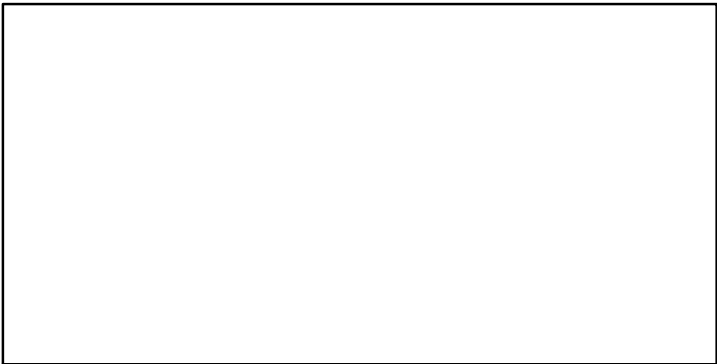
TAC*, Cpair*, Cadv*



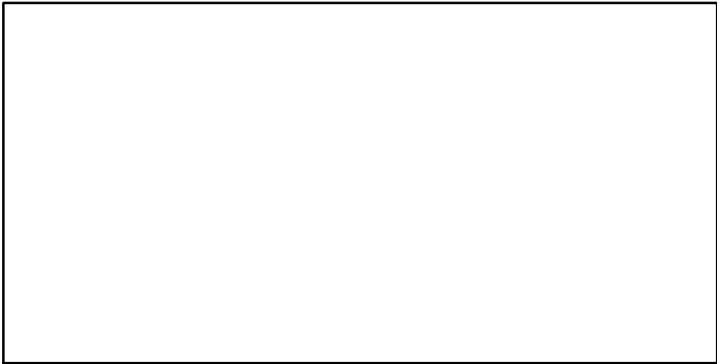
survB*



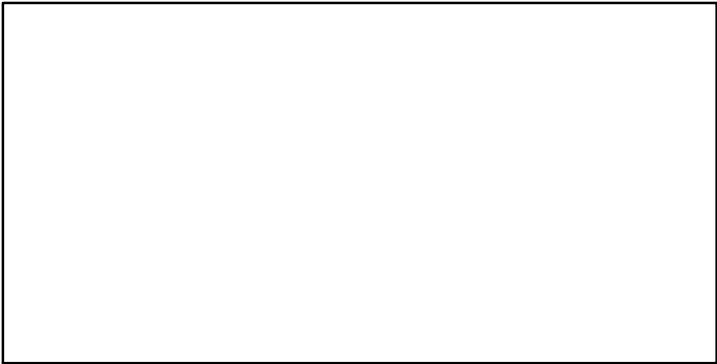
CPUE*



EFFORT*



CdivMSY*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Striped red mullet IIIa, VIId and North Sea [STRMULLIIIa-IV-VIId]

Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGNSSK-STRMULLIIIa-IV-VIId-2004-2016-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2040	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2580		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

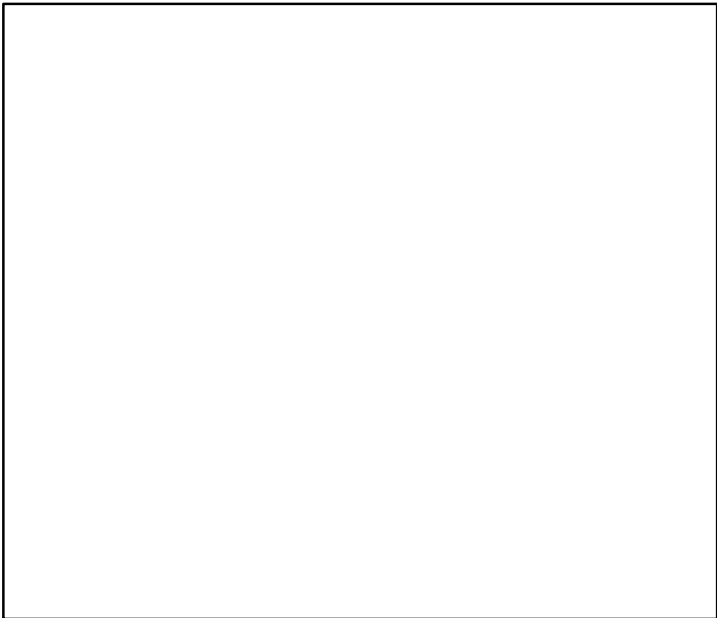
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



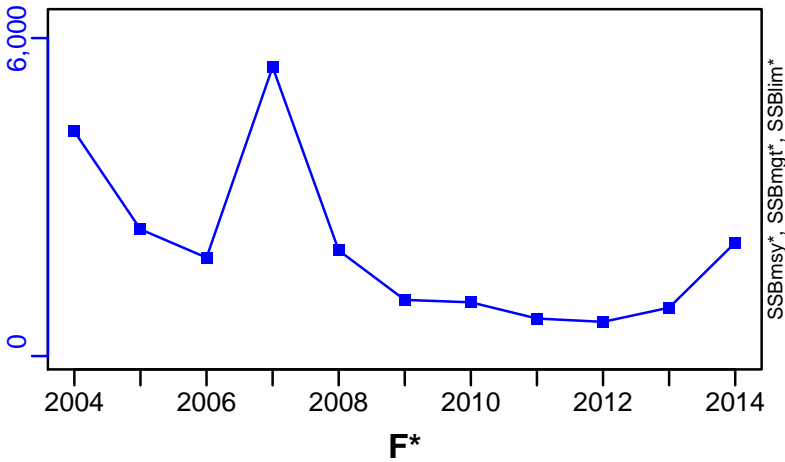
◆ Start Year ◆ End Year * No Data

Striped red mullet IIIa, VIId and North Sea [STRMULLIIIa-IV-VIId]

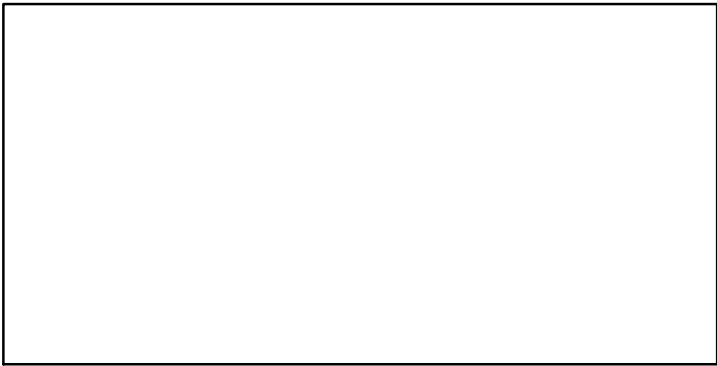
TB*



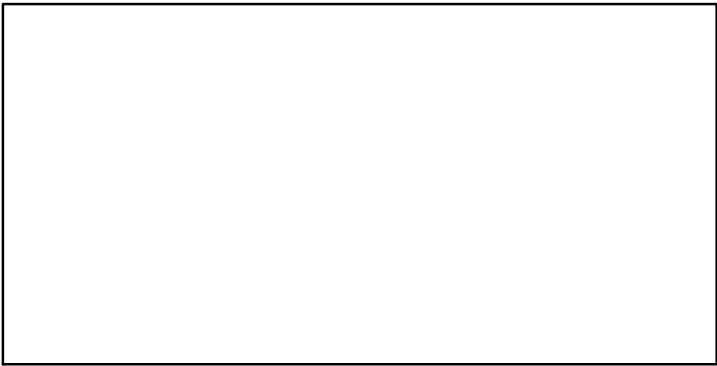
SSB-MT (1975–2014–ICESIMP2018)



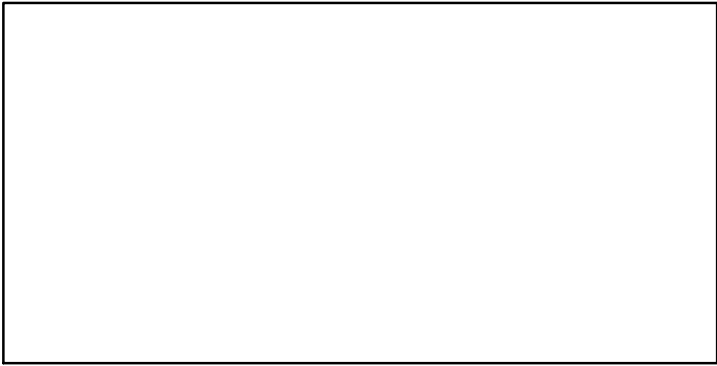
TN *



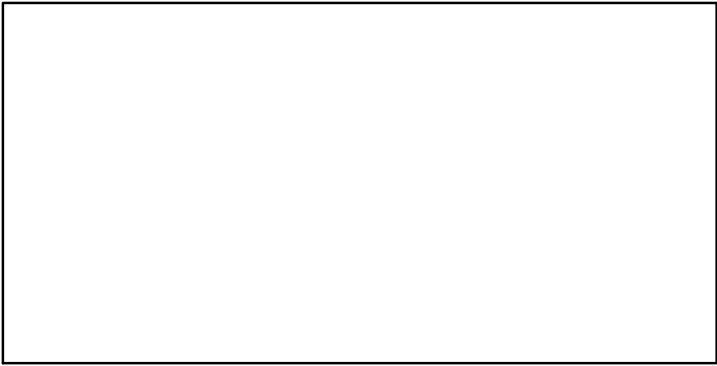
F*



ER*

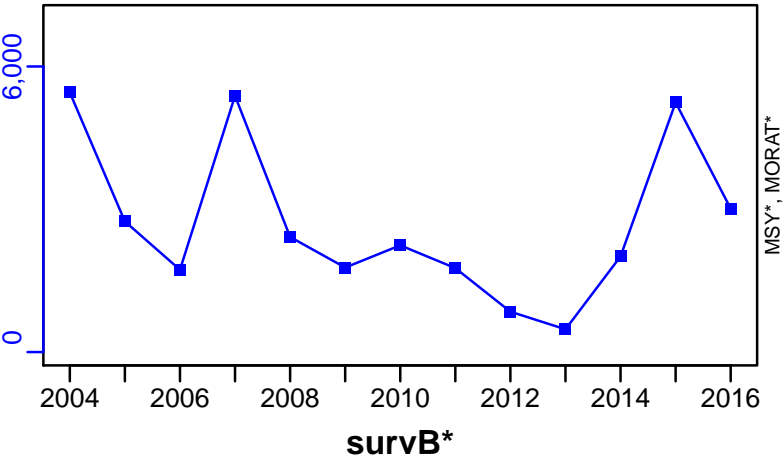


Recruits*



Striped red mullet IIIa, VIId and North Sea [STRMULLIIIa-IV-VIId]

TL-MT, TC*, RecC* (2004-2016-ICESIMP2018)



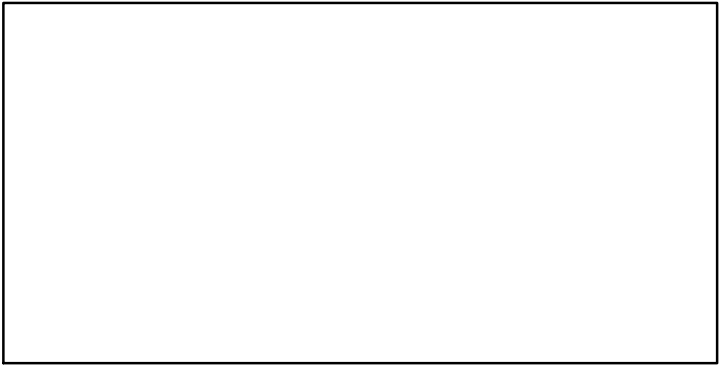
TAC*, Cpair*, Cadv*



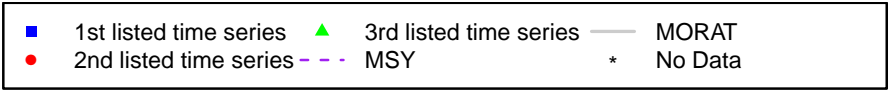
CPUE*



EFFORT*



CdivMSY*



Striped red mullet ICES VI-VIIabcefgghijk-VIII-IXa [STRMULLVI-VIIabcefgghijk-VIII-IXa]

Metadata	
Scientific Name	Mullus surmuletus
Current Assess ID	WGWISE-STRMULLVI-VIIabcefgghijk-VIII-IXa-1975-2016-ICESIMP2018
Area	ICES VI-VIIabcefgghijk-VIII-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 2016

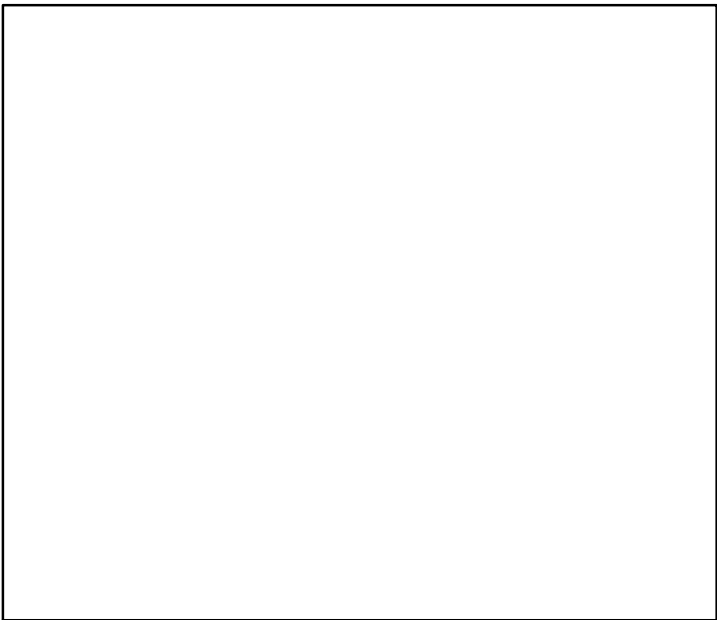
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1730		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

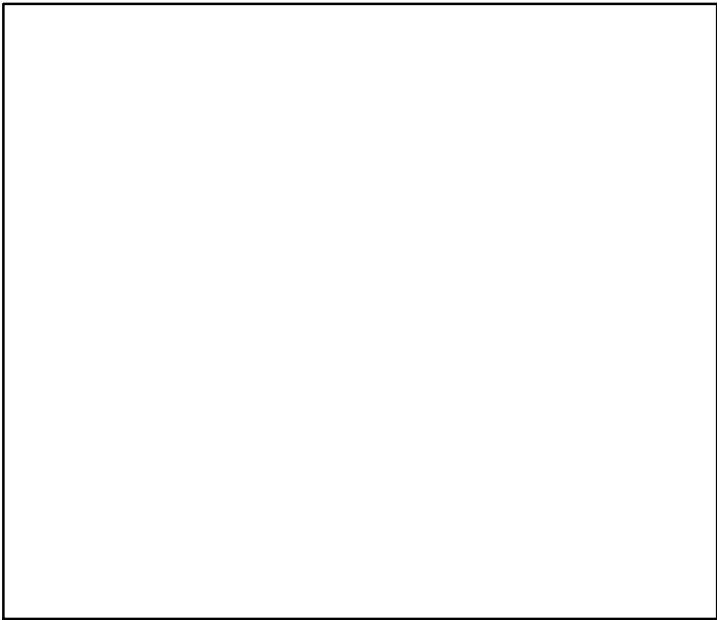
Kobe MSY*



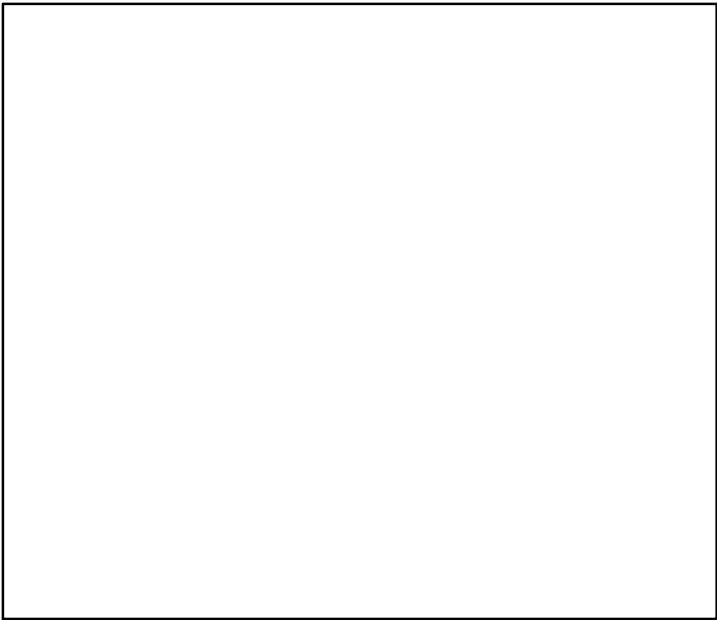
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

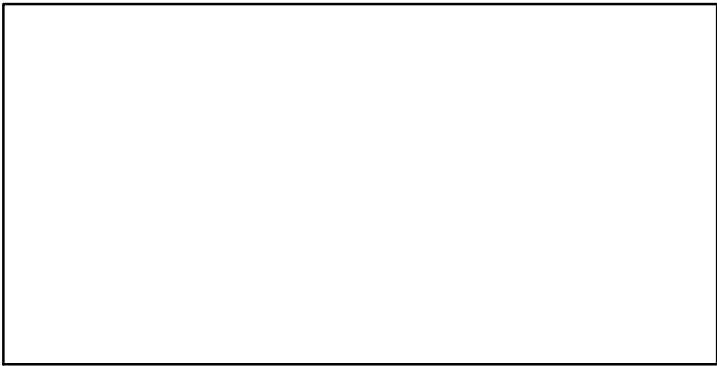
TB*



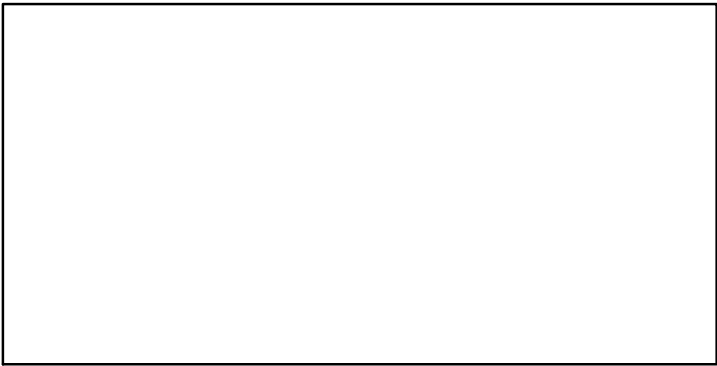
SSB*



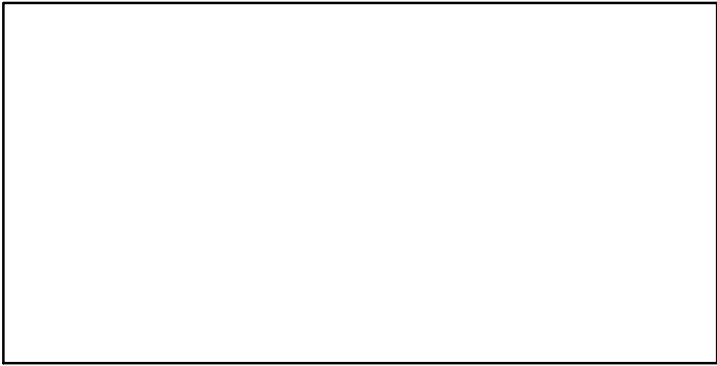
TN *



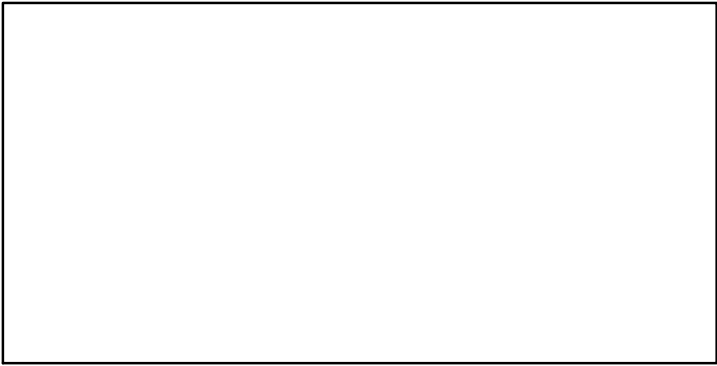
F*



ER*

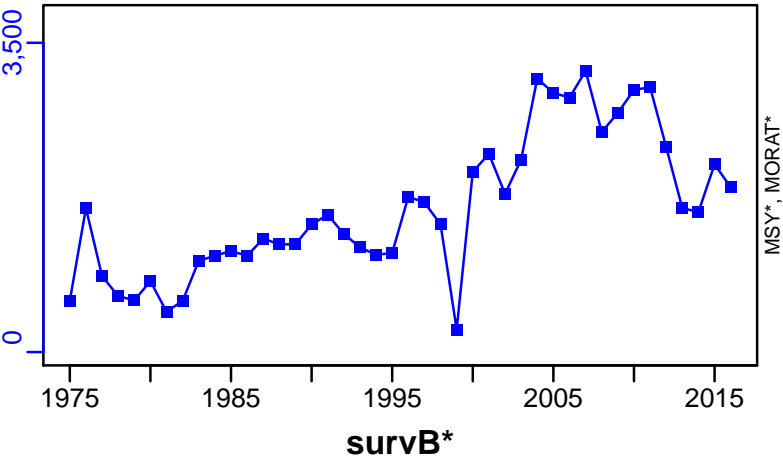


Recruits*



Striped red mullet ICES VI–VIIabcefg hijk–VIII–IXa [STRMULLVI–VIIabcefg hijk–VIII–IXa]

TL–MT, TC*, RecC* (1975–2016–ICESIMP2018)



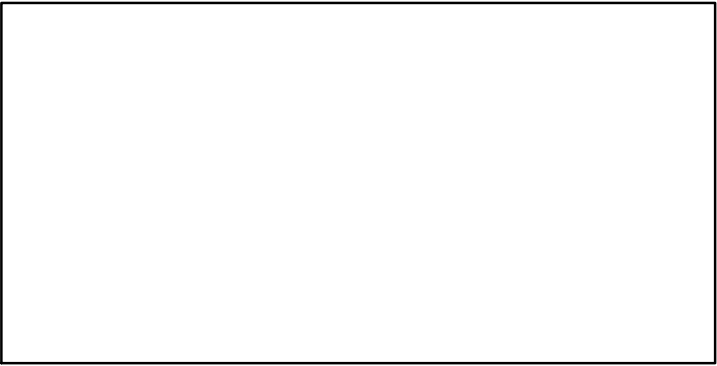
TAC*, Cpair*, Cadv*



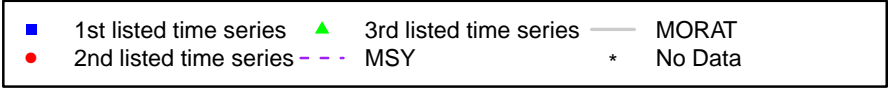
CPUE*



EFFORT*



CdivMSY*



Sea trout Baltic Areas 22-32 [STROUT22-32]

Metadata	
Scientific Name	Salmo trutta
Current Assess ID	WGBAST-STROUT22-32-2001-2016-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Assessment Working Group on Baltic Salmon and Trout
Asmts in RAM	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	232		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

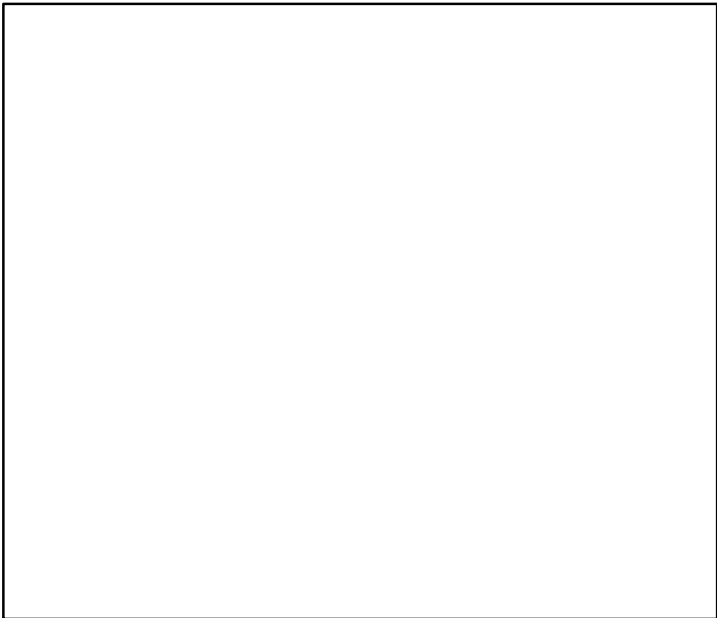
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

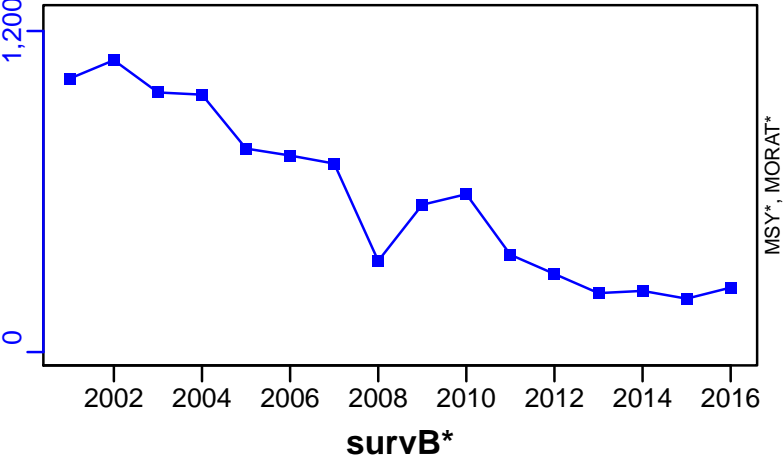


Recruits*



Sea trout Baltic Areas 22–32 [STROUT22–32]

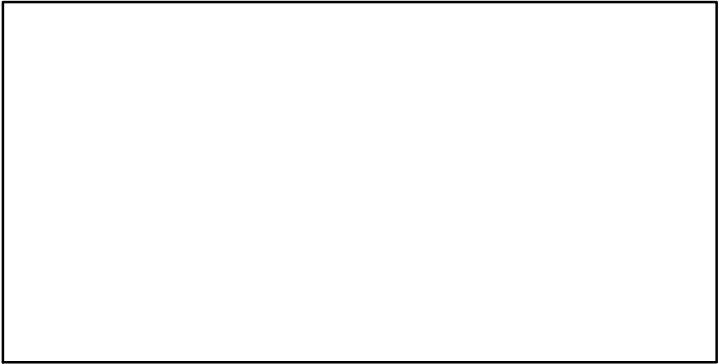
TC–MT, TL*, RecC* (2001–2016–ICESIMP2018)



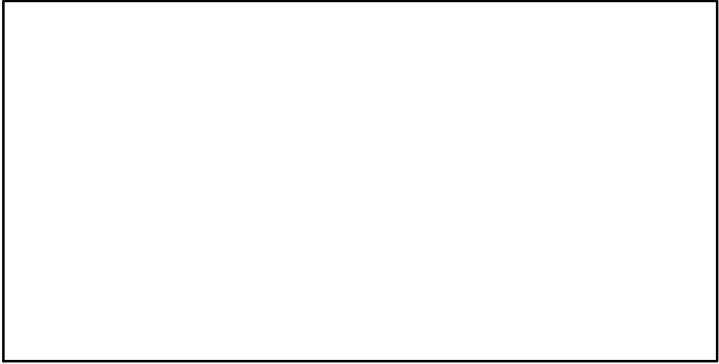
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



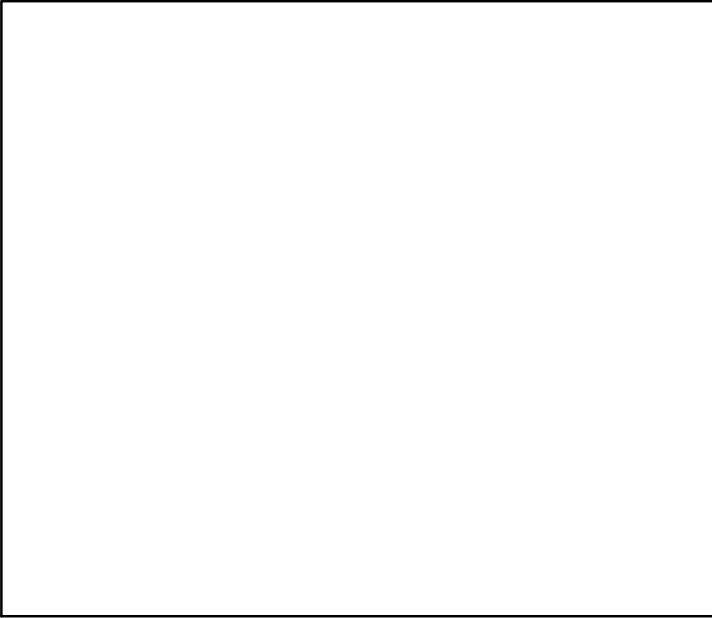
Thornback skate IIIa, VIId and North Sea [TBSKAIIIa-IV-VIId]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIIIa-IV-VIId-2009-2016-ICESIMP2018
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

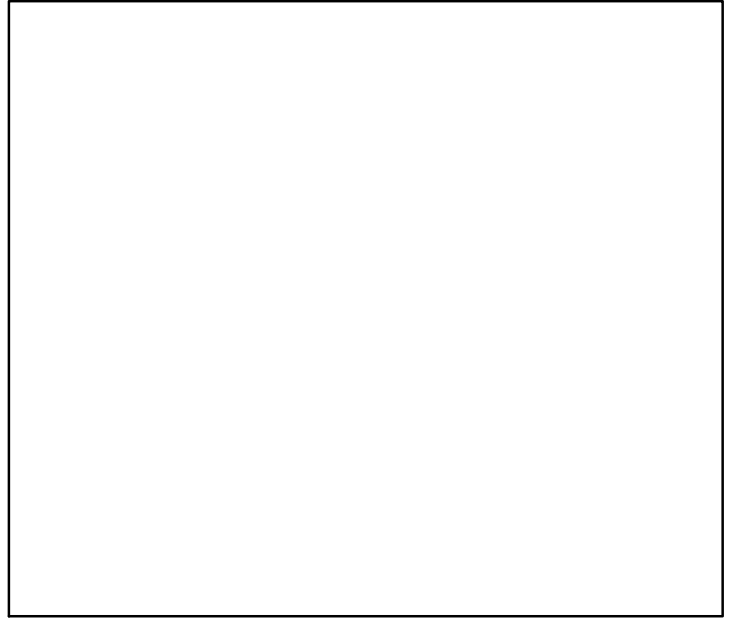
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2.84	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

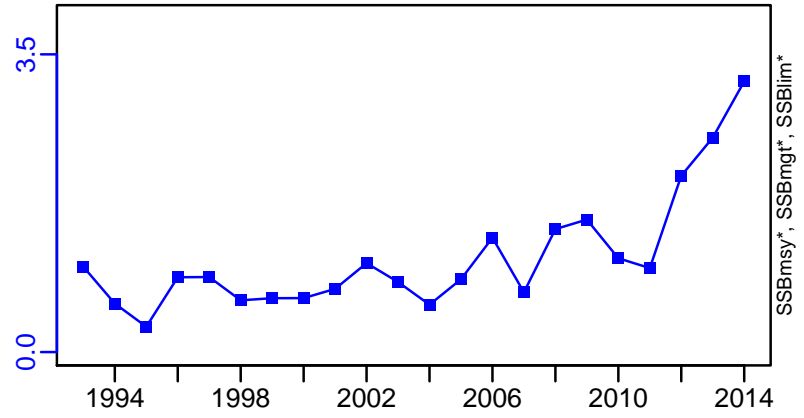
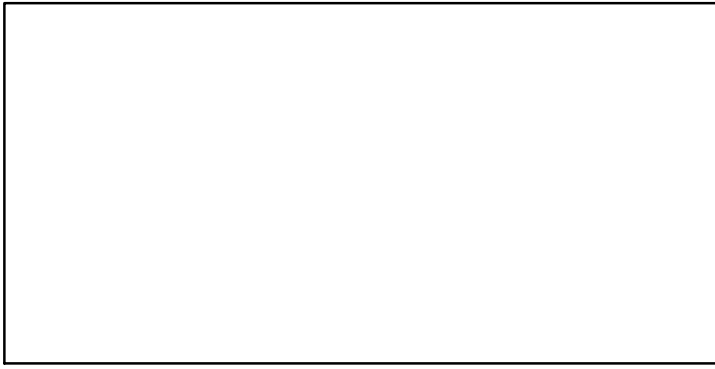


◆ Start Year ◆ End Year * No Data

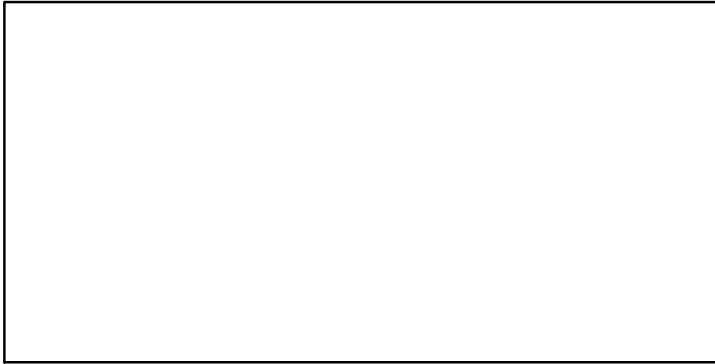
Thornback skate IIIa, VIId and North Sea [TBSKAIIIa-IV-VIId]

TB*

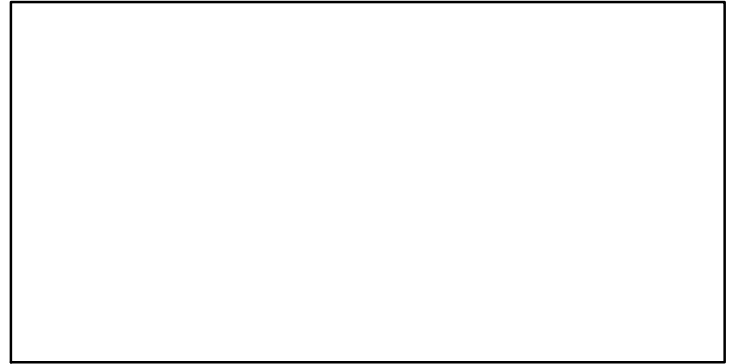
SSB-MT (1993–2014–ICESIMP2018)



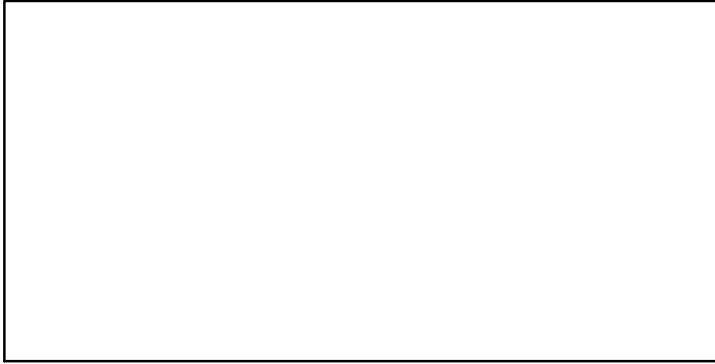
TN *



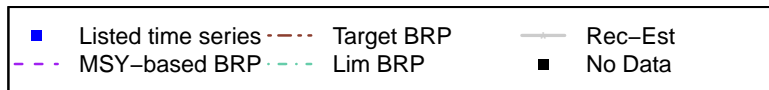
F*



ER*



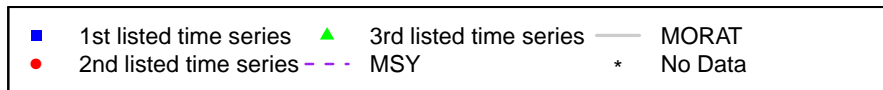
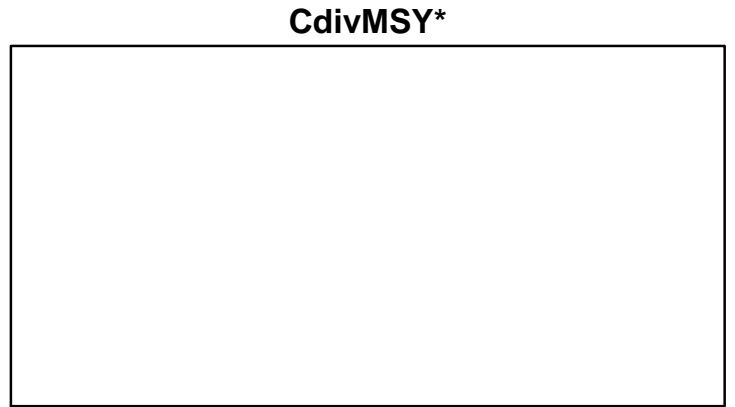
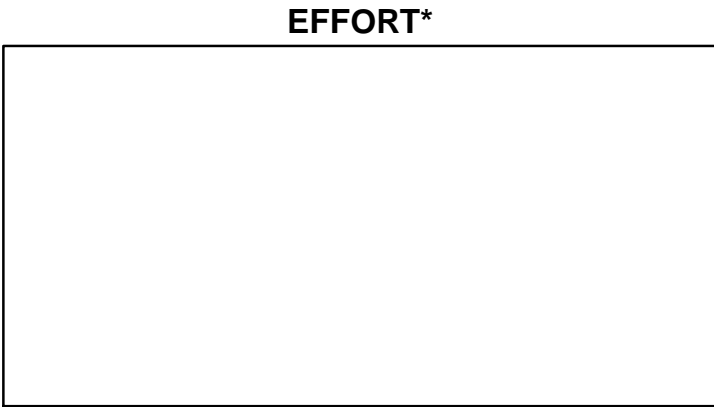
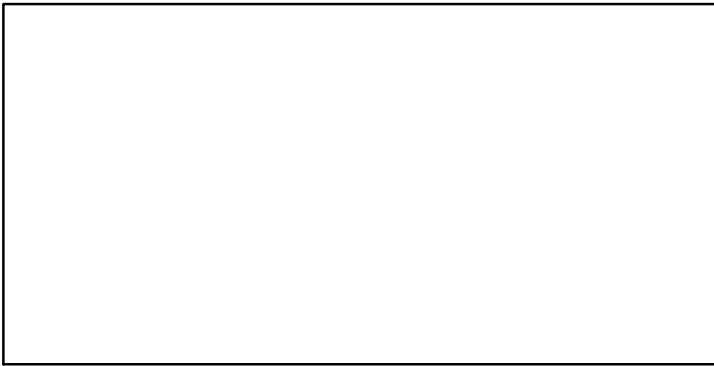
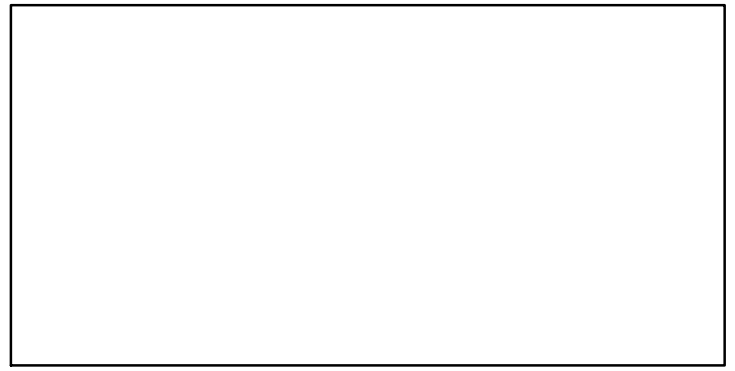
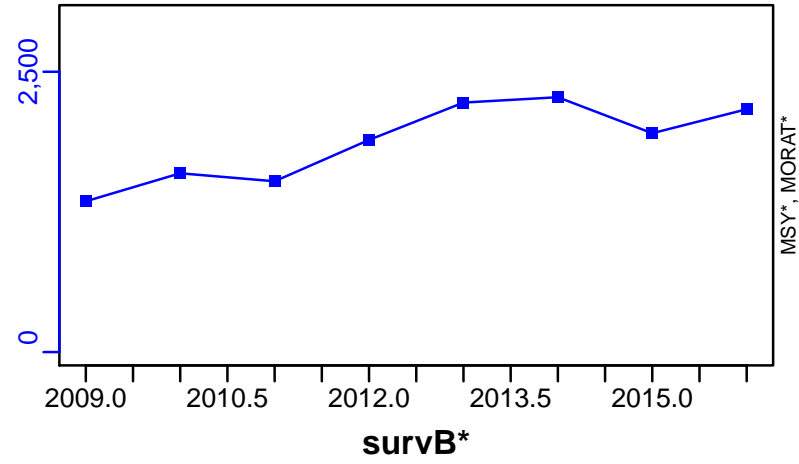
Recruits*



Thornback skate IIIa, VIId and North Sea [TBSKAIIIa-IV-VIId]

TL-MT, TC*, RecC* (2009-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



Thornback skate Portuguese Waters -East [TBSKAIXa]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAIXa-1997-2015-ICESIMP2018
Area	Portuguese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	1.93	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	724		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

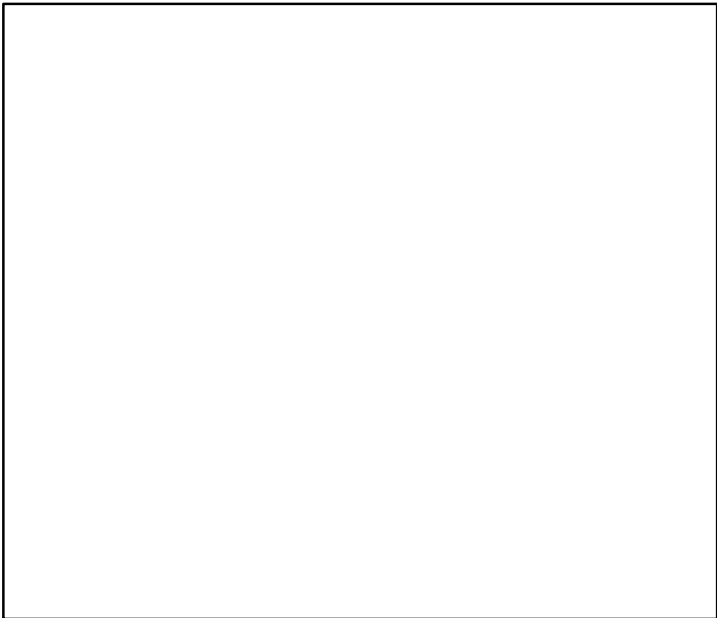
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

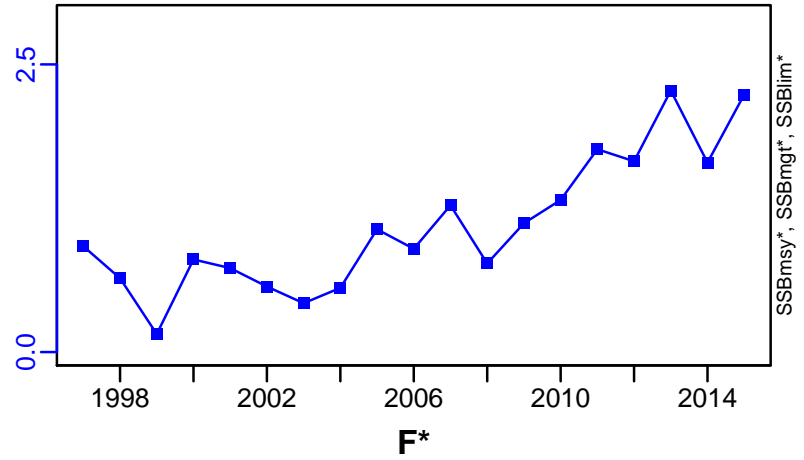
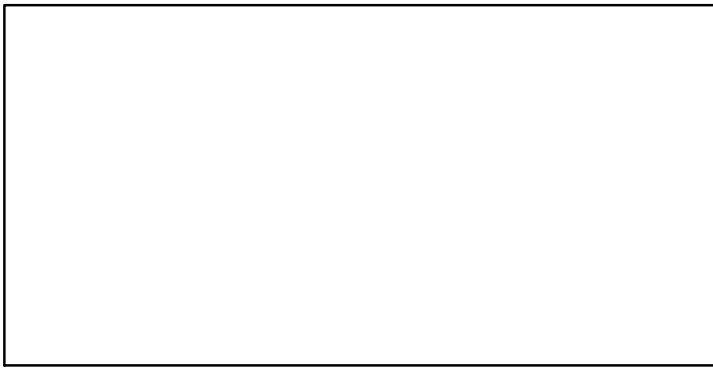


◆ Start Year ◆ End Year * No Data

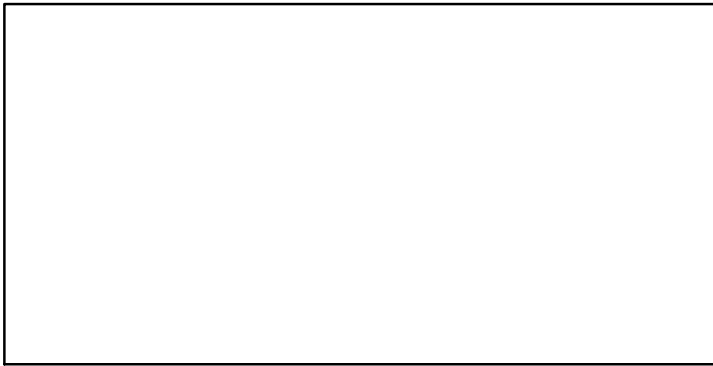
Thornback skate Portugese Waters –East [TBSKAIXa]

TB*

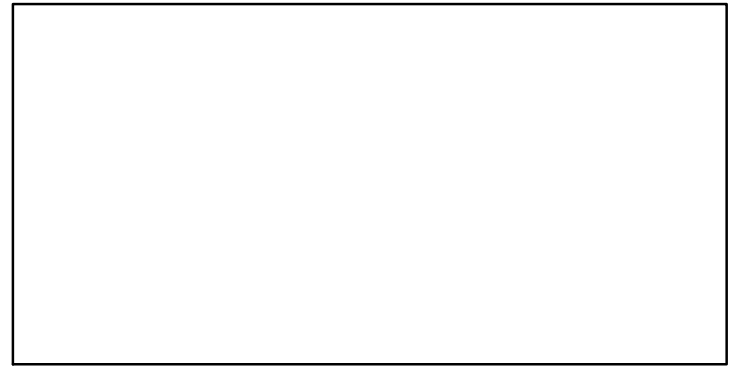
SSB-MT (1997–2015–ICESIMP2018)



TN *



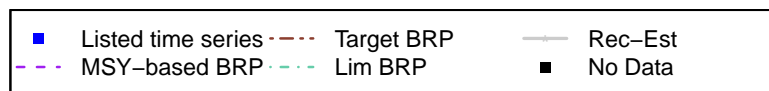
F*



ER*



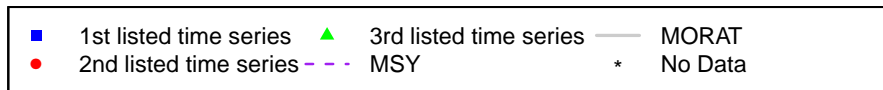
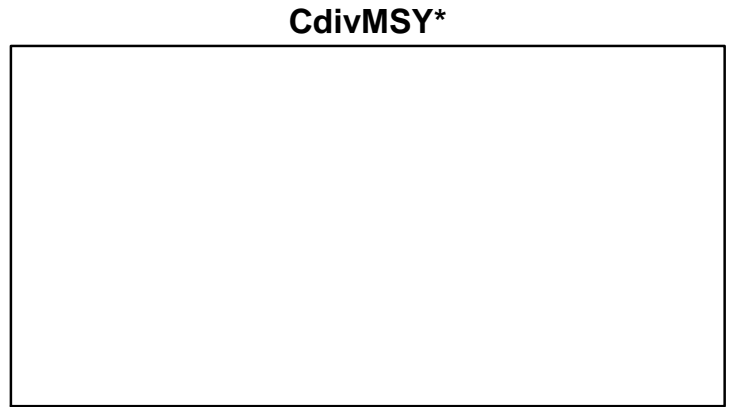
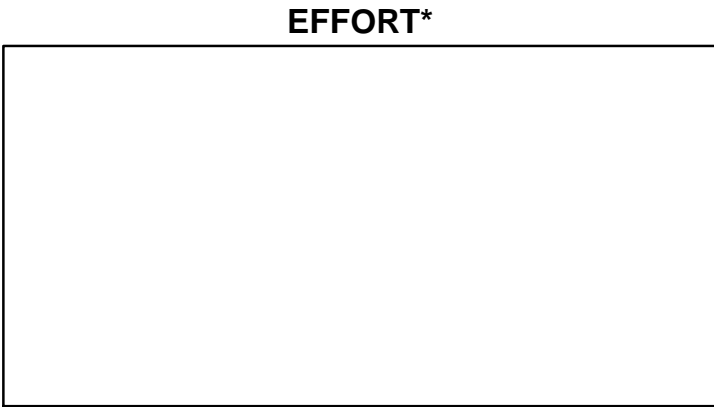
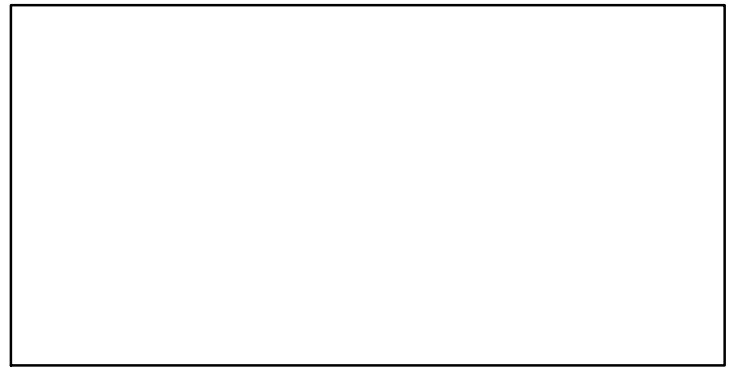
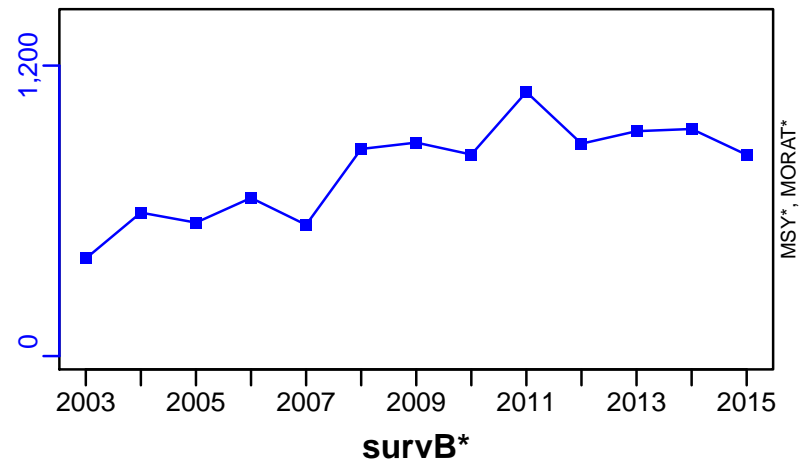
Recruits*



Thornback skate Portuguese Waters –East [TBSKAIXa]

TL–MT, TC*, RecC* (1997–2015–ICESIMP2018)

TAC*, Cpair*, Cadv*



Thornback skate ICES VI [TBSKAVI]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVI-2005-2015-ICESIMP2018
Area	ICES VI
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-MT	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	-	-	-		

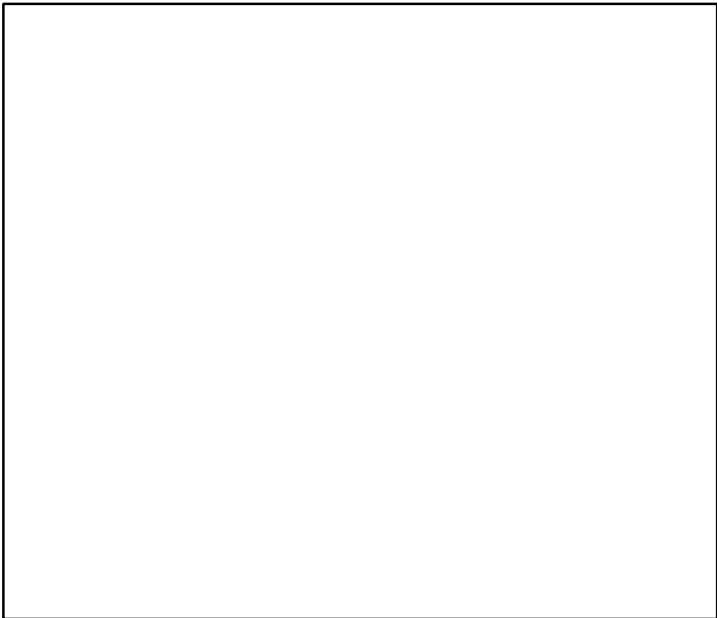
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



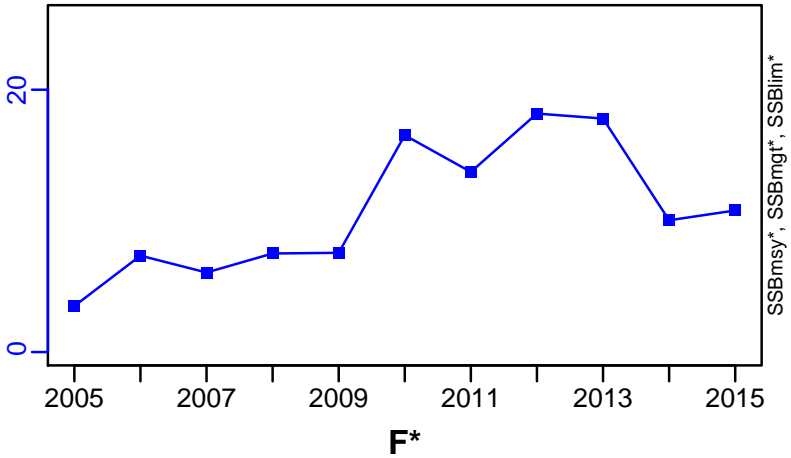
◆ Start Year ◆ End Year * No Data

Thornback skate ICES VI [TBSKAVI]

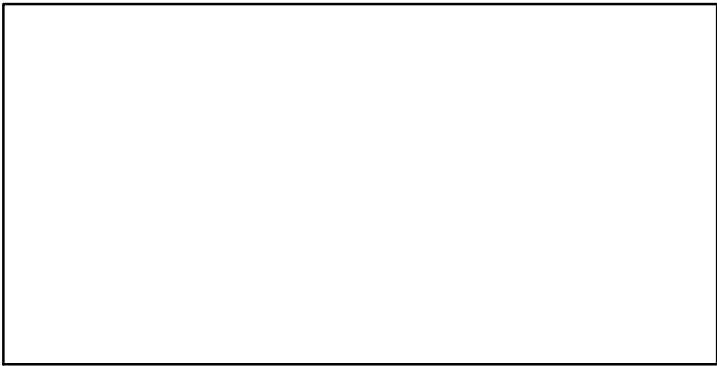
TB*



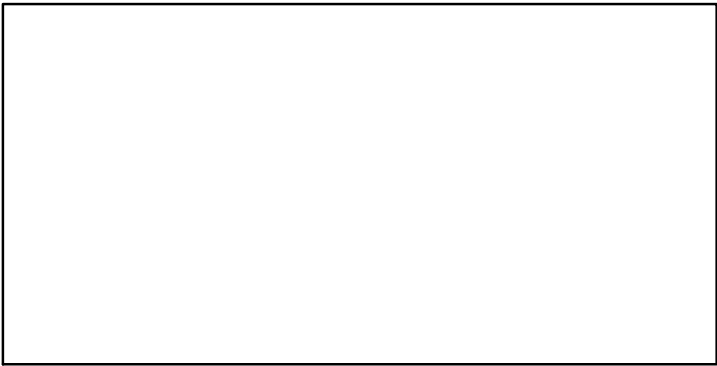
SSB-MT (2005–2015–ICESIMP2018)



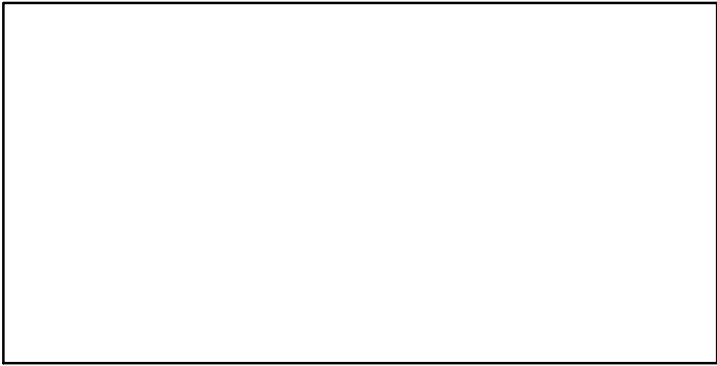
TN *



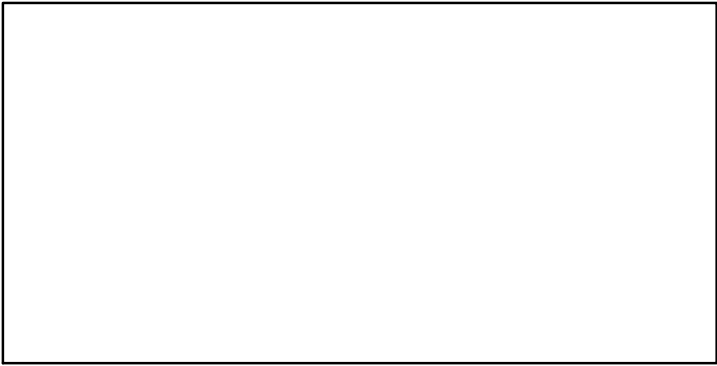
F*



ER*

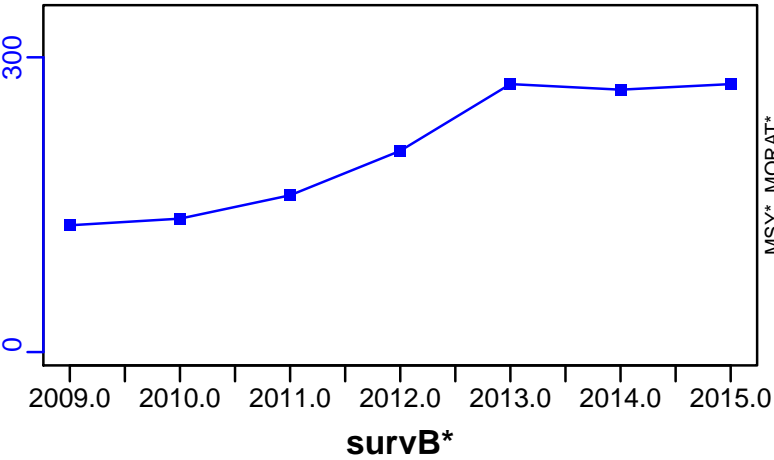


Recruits*



Thornback skate ICES VI [TBSKAVI]

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



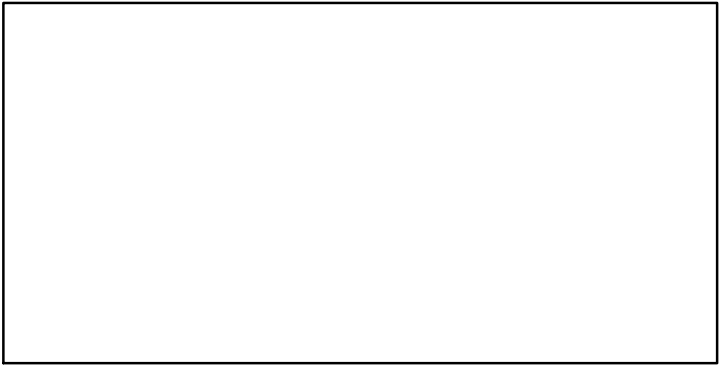
TAC*, Cpair*, Cadv*



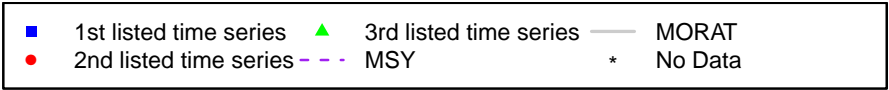
CPUE*



EFFORT*



CdivMSY*



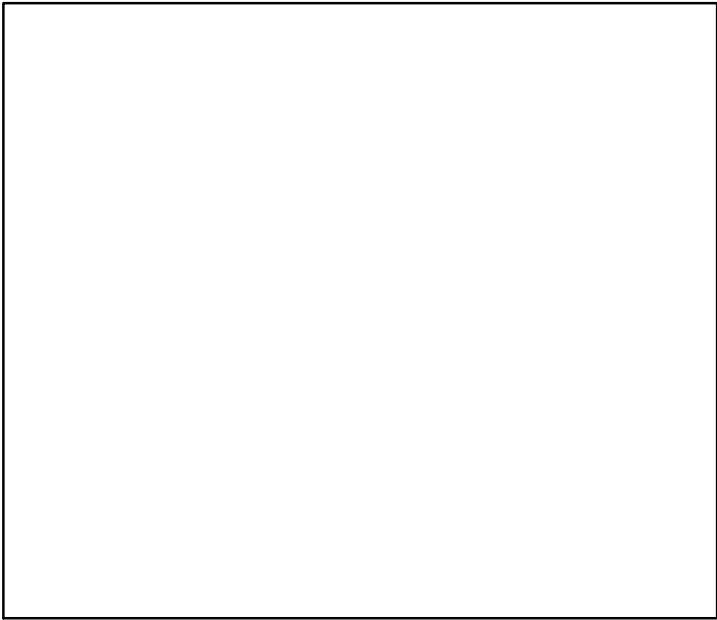
Thornback skate ICES VIIafg [TBSKAVIIafg]

Metadata	
Scientific Name	Raja clavata
Current Assess ID	WGEF-TBSKAVIIafg-1993-2015-ICESIMP2018
Area	ICES VIIafg
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2015

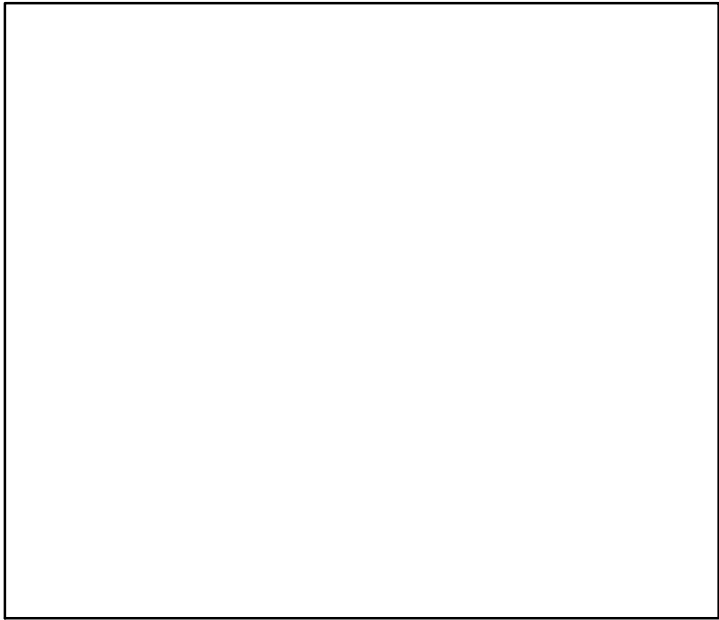
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	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	-	-	-		

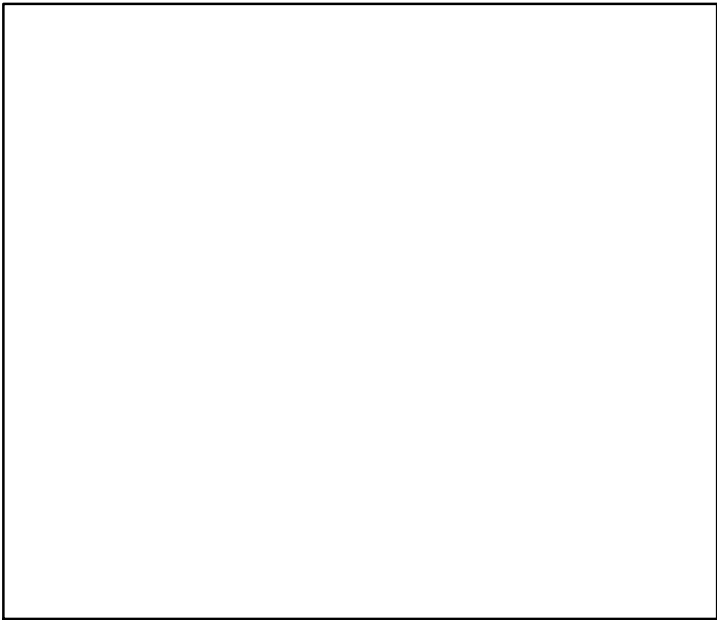
Kobe MSY*



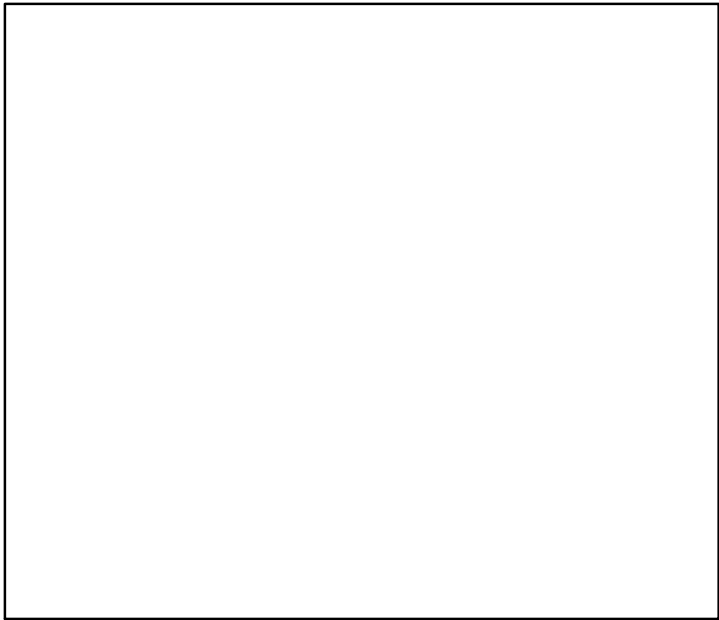
Kobe MGT*



Spawner Recruit*



Production*



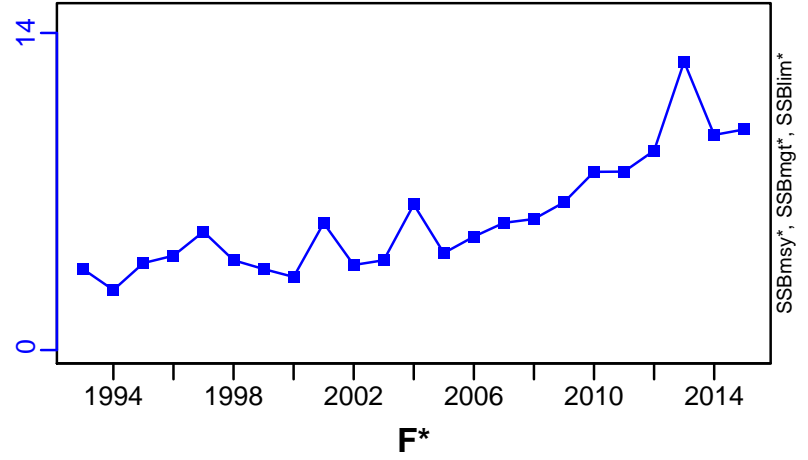
◆ Start Year ◆ End Year * No Data

Thornback skate ICES VIIafg [TBSKAVIIafg]

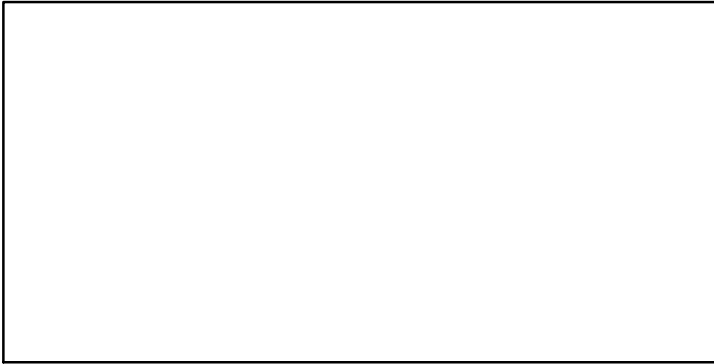
TB*



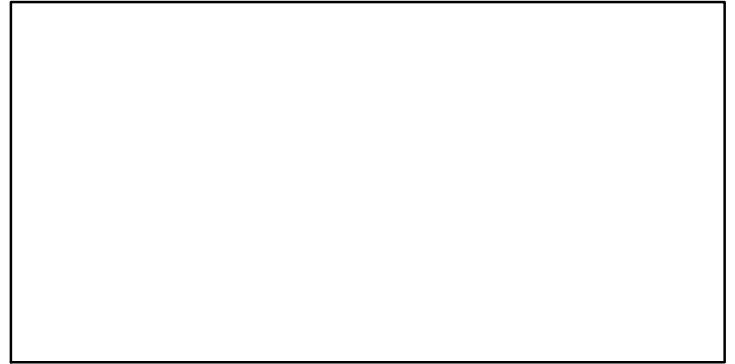
SSB-MT (1993–2015–ICESIMP2018)



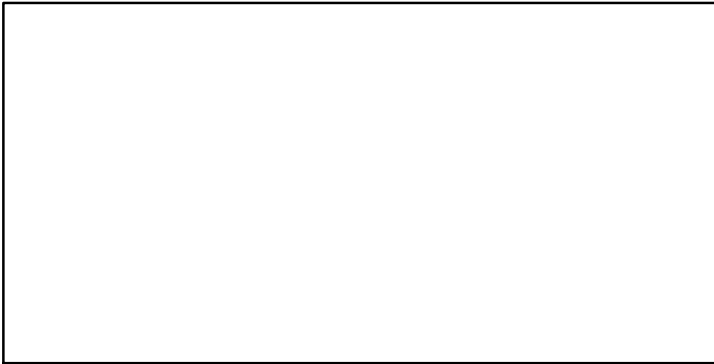
TN *



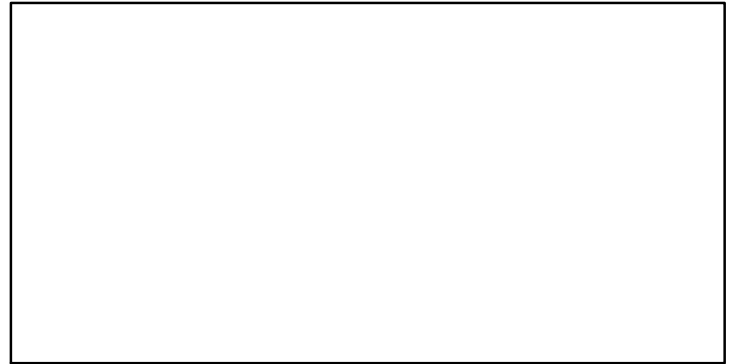
F*



ER*



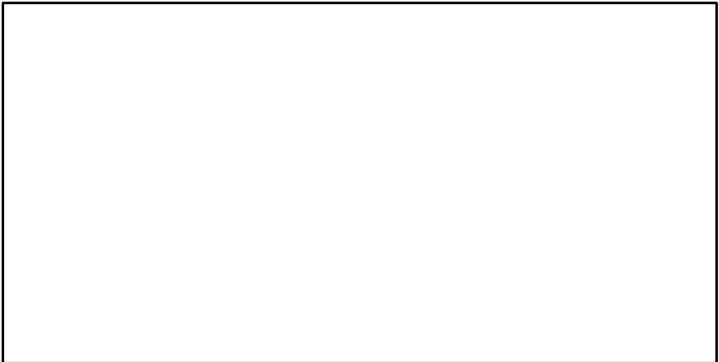
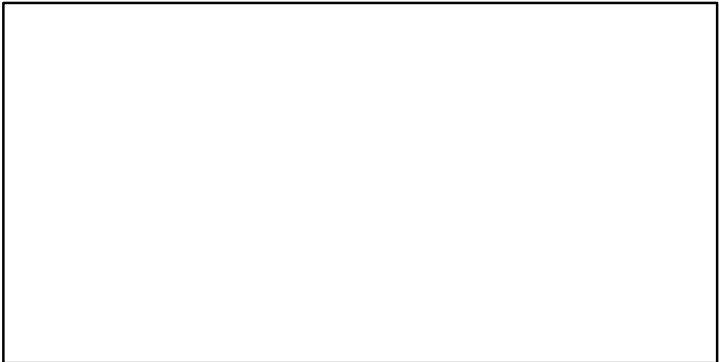
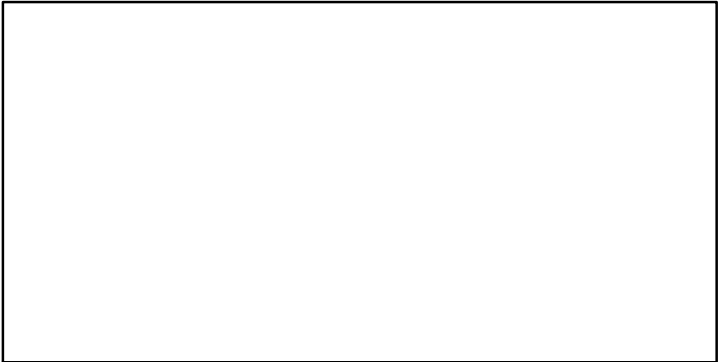
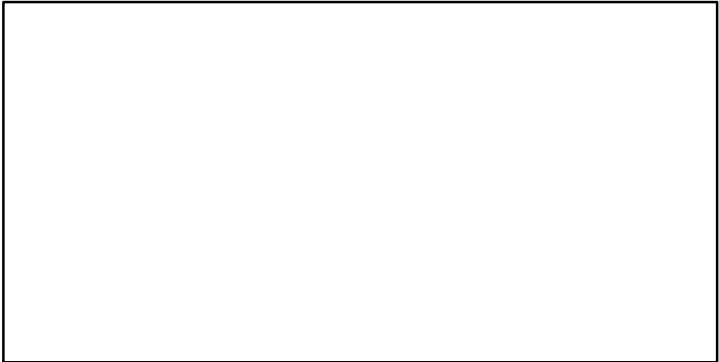
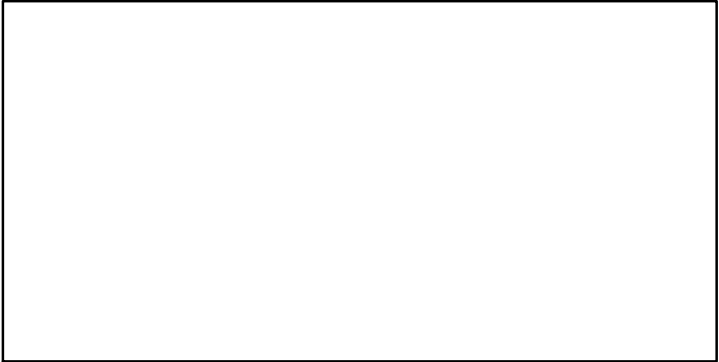
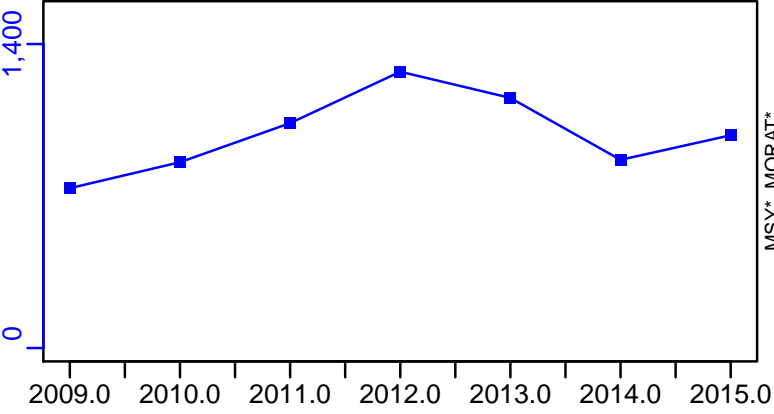
Recruits*



Thornback skate ICES VIIafg [TBSKAVIIafg]

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

TAC*, Cpair*, Cadv*



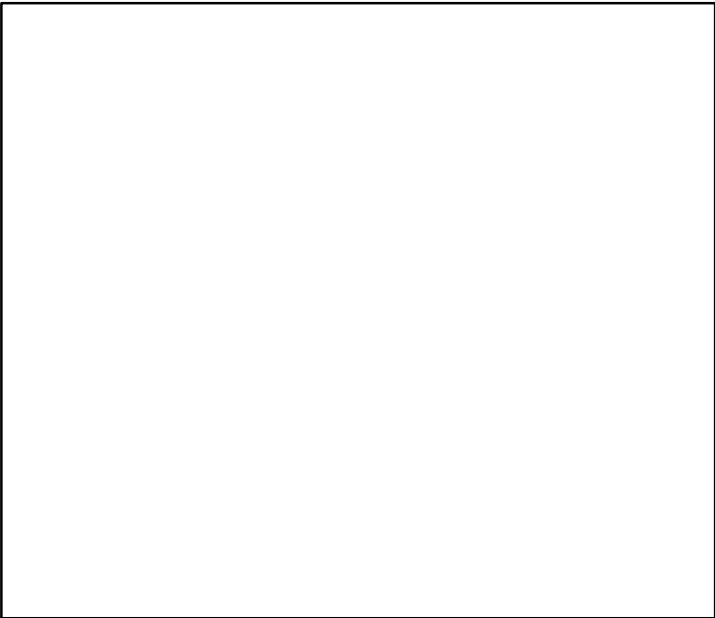
Thornback skate Western English Channel [TBSKAVIle]

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

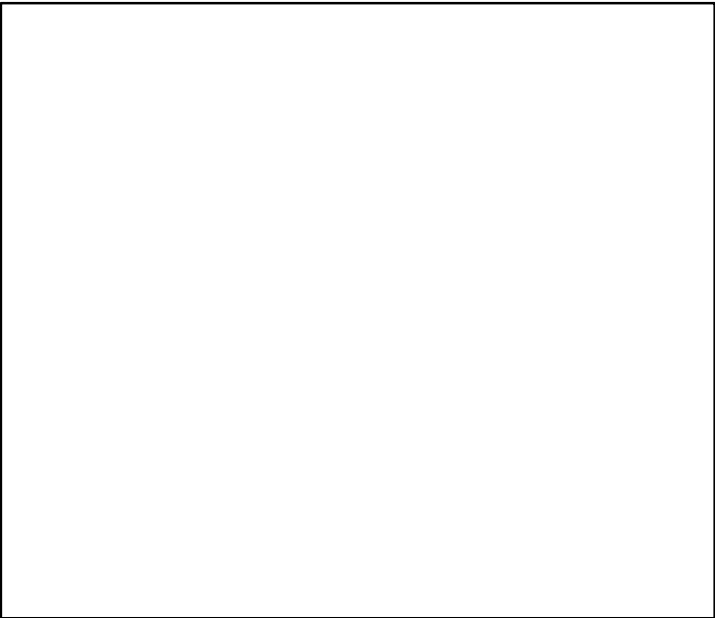
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	391		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

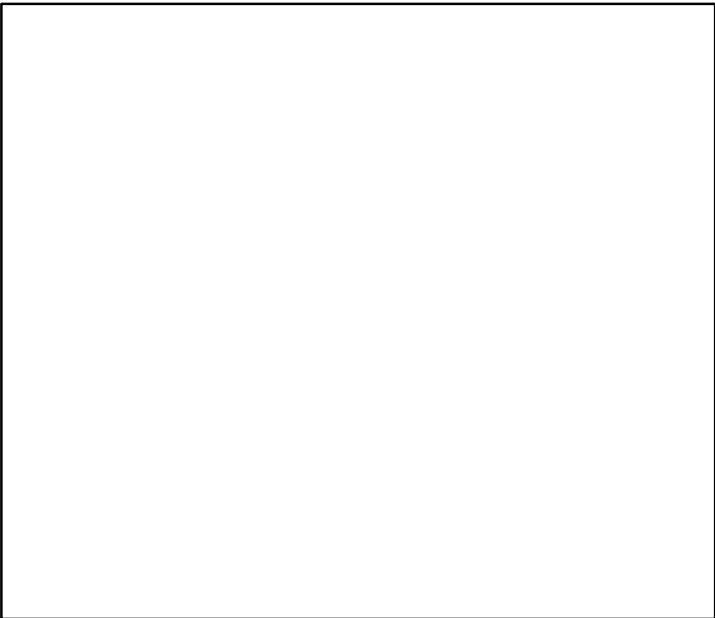
Kobe MSY*



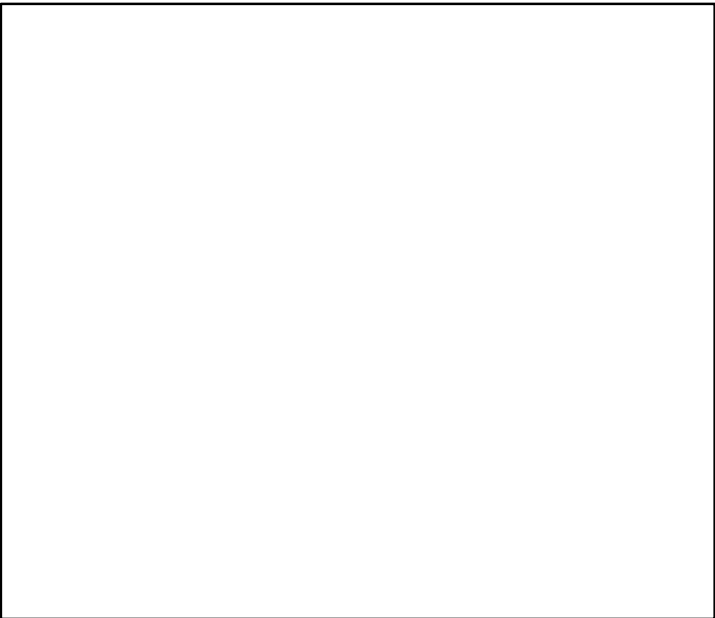
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



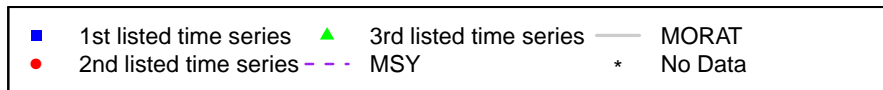
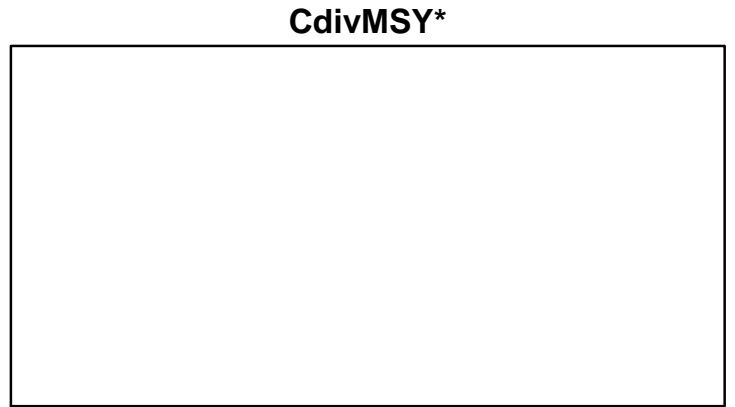
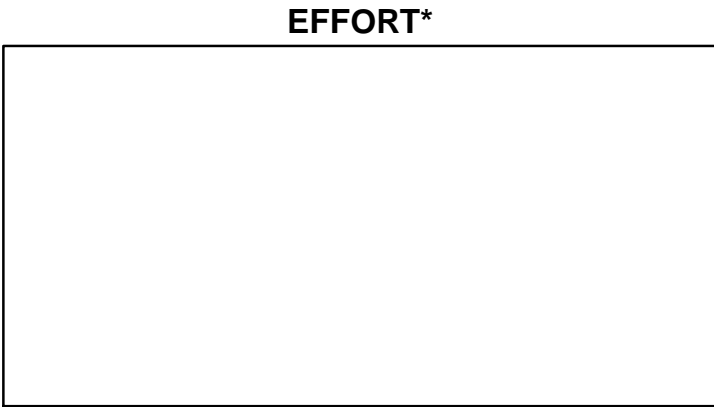
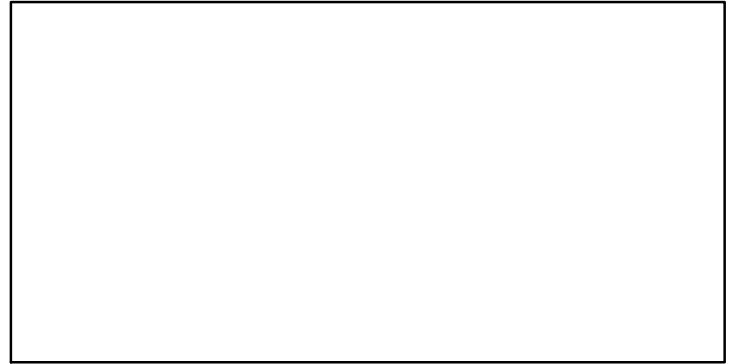
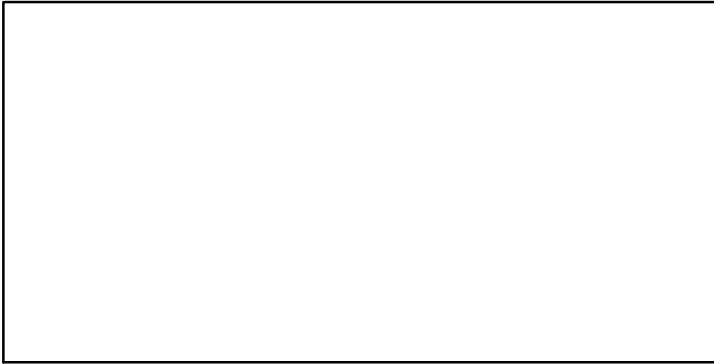
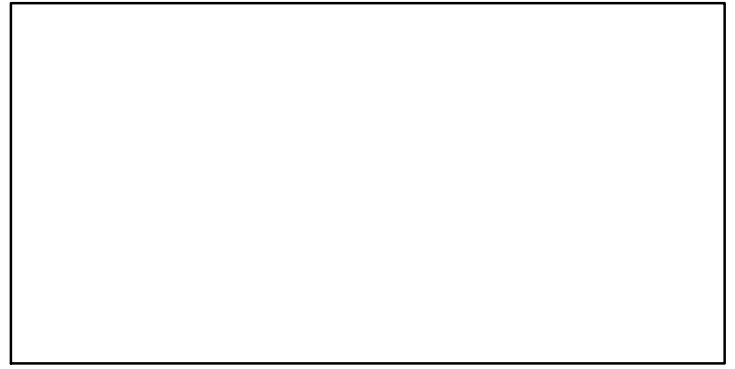
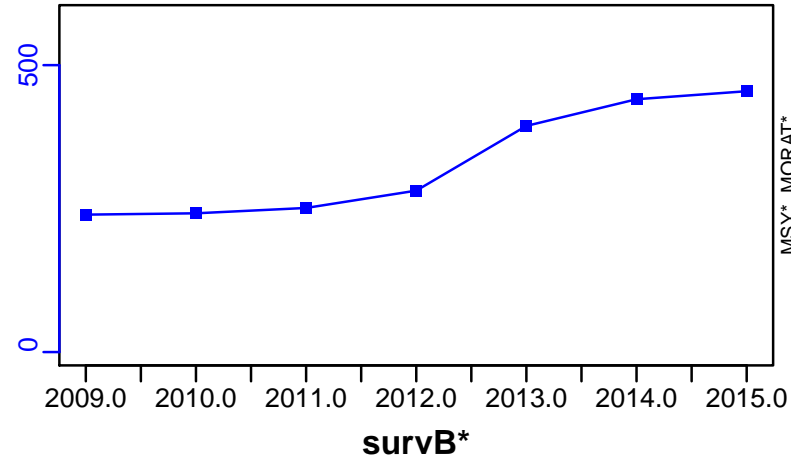
Recruits*



Thornback skate Western English Channel [TBSKAVIle]

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

TAC*, Cpair*, Cadv*



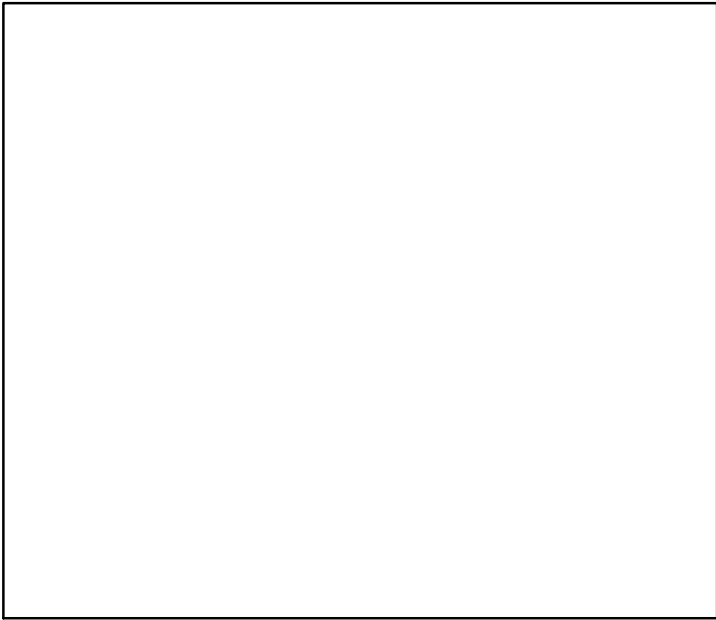
Thornback skate Bay of Biscay [TBSKAVIII]

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

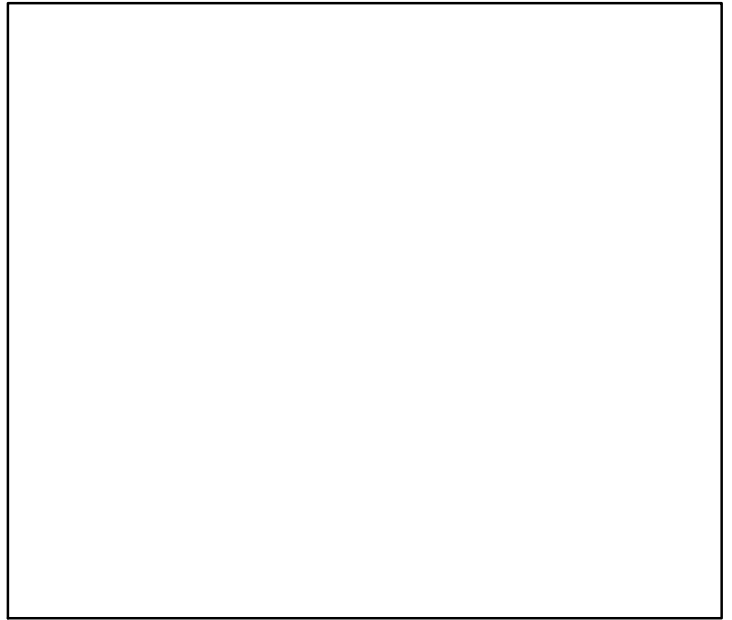
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	1.04	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	400		
TL	TL-MT	2015	395		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

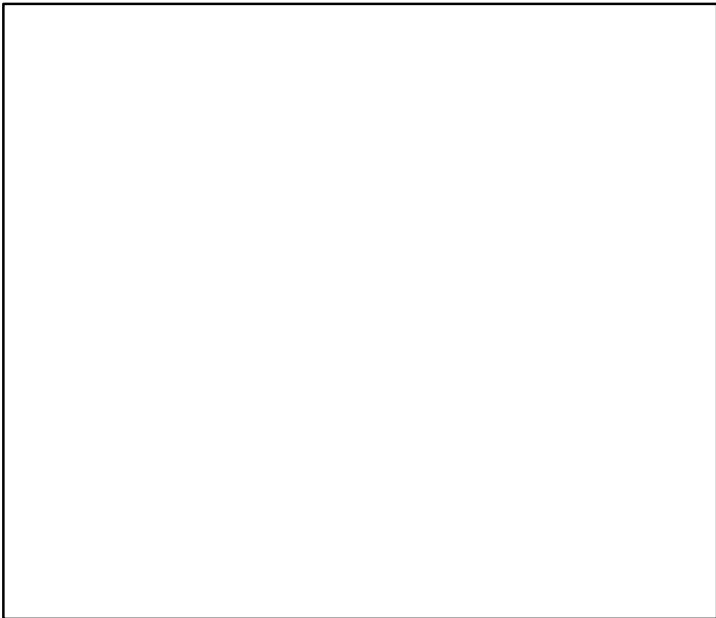
Kobe MSY*



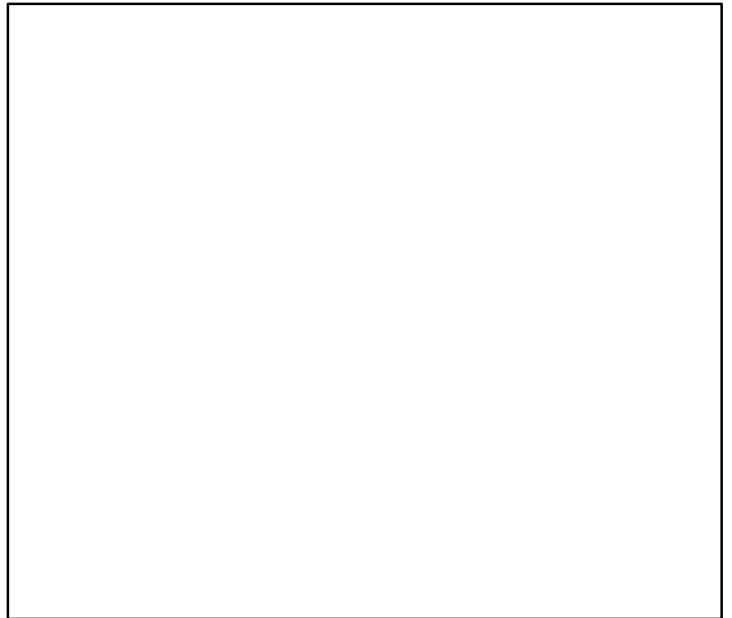
Kobe MGT*



Spawner Recruit*



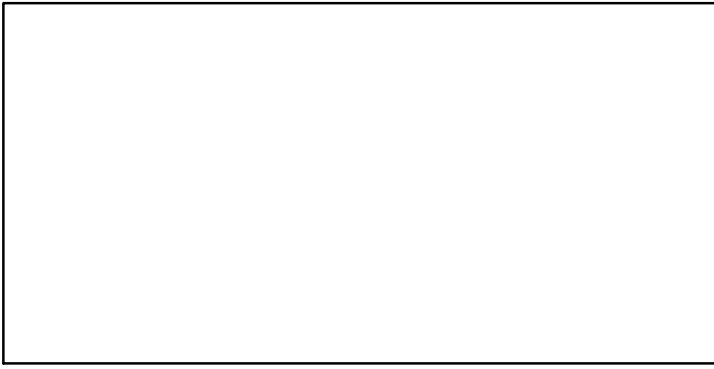
Production*



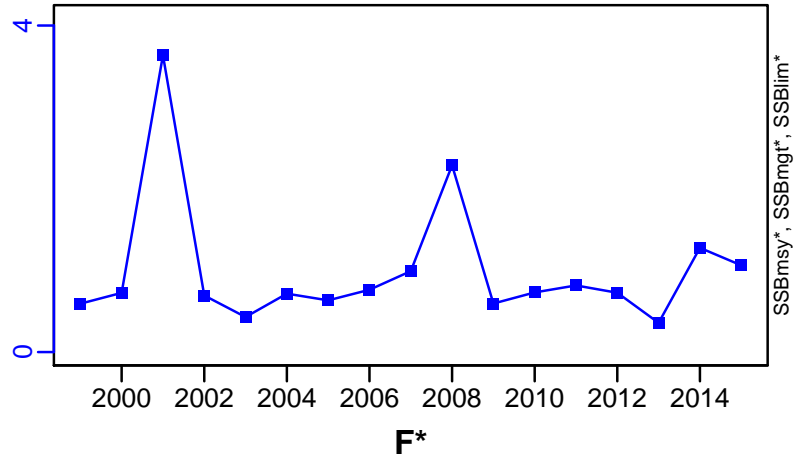
◆ Start Year ◆ End Year * No Data

Thornback skate Bay of Biscay [TBSKAVIII]

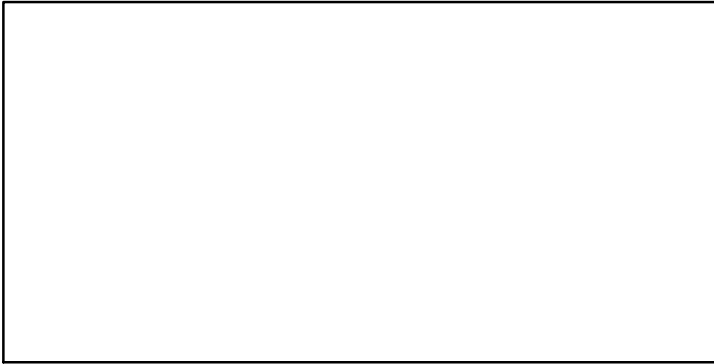
TB*



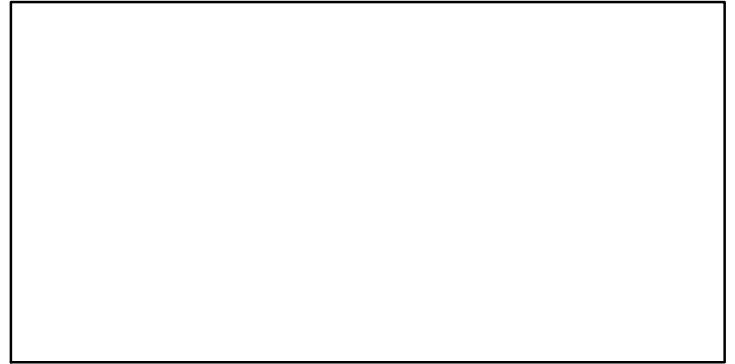
SSB-MT (1999–2015–ICESIMP2018)



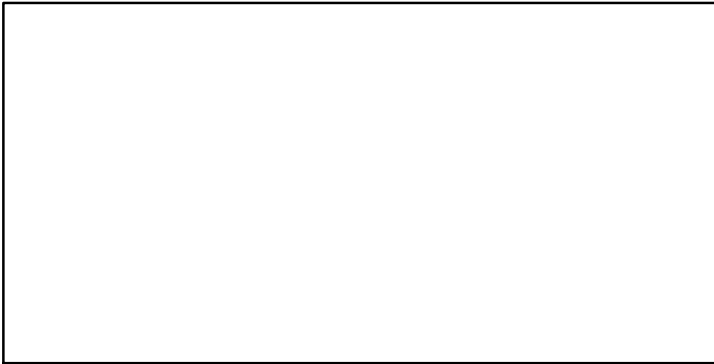
TN *



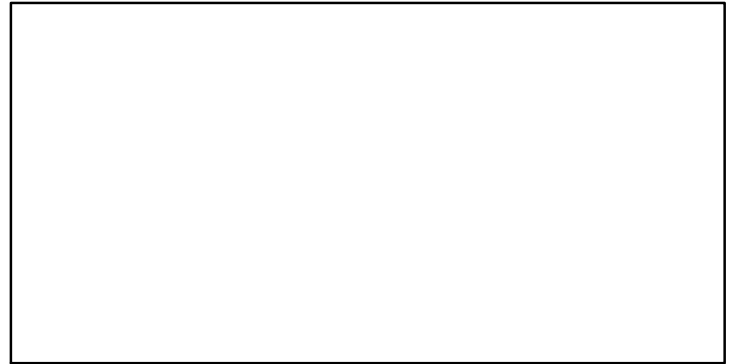
F*



ER*

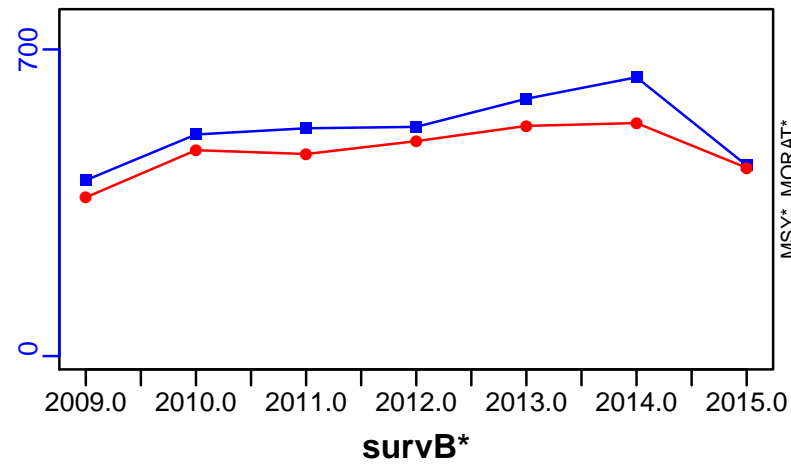


Recruits*



Thornback skate Bay of Biscay [TBSKAVIII]

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



TAC*, Cpair*, Cadv*



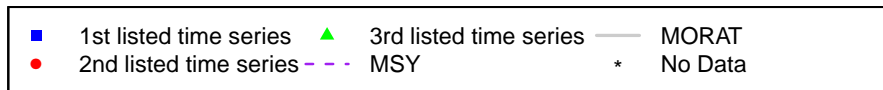
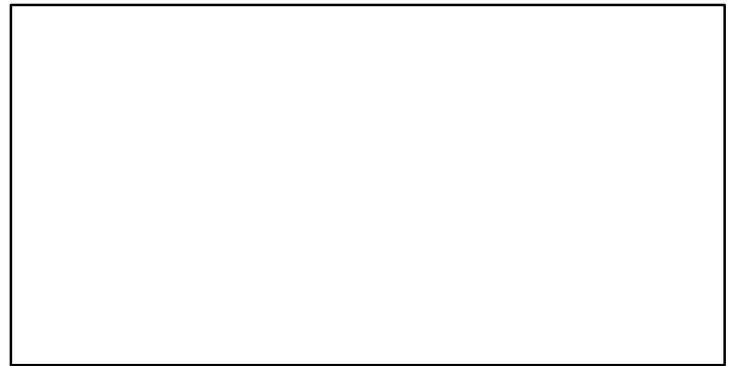
CPUE*



EFFORT*



CdivMSY*



Tope shark Northeast Atlantic [TPSHARNEATL]

Metadata	
Scientific Name	Galeorhinus galeus
Current Assess ID	WGEF-TPSHARNEATL-2005-2016-ICESIMP2018
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	454		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

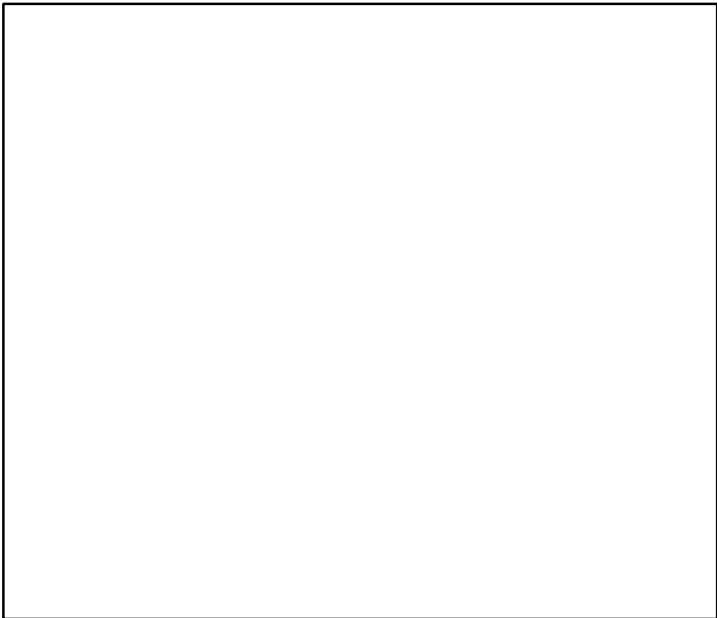
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Tope shark Northeast Atlantic [TPSHARNEATL]

TB*



SSB*



TN *



F*



ER*

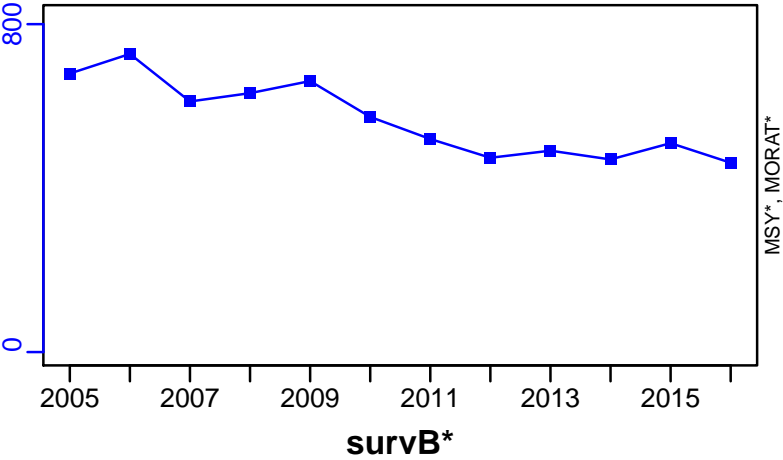


Recruits*

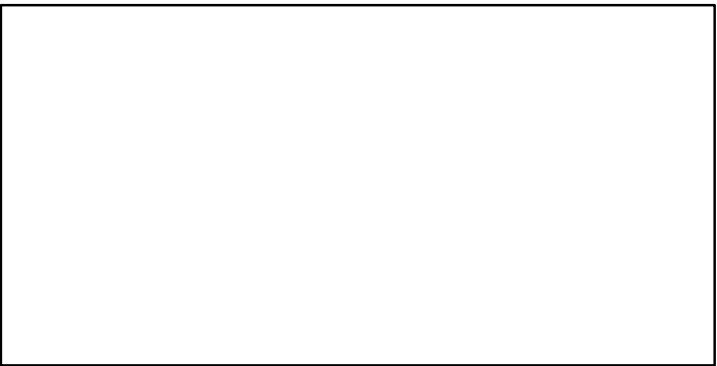


Tope shark Northeast Atlantic [TPSHARNEATL]

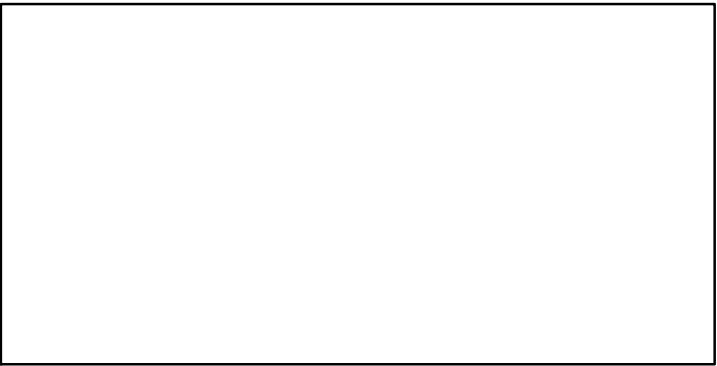
TL-MT, TC*, RecC* (2005–2016–ICESIMP2018)



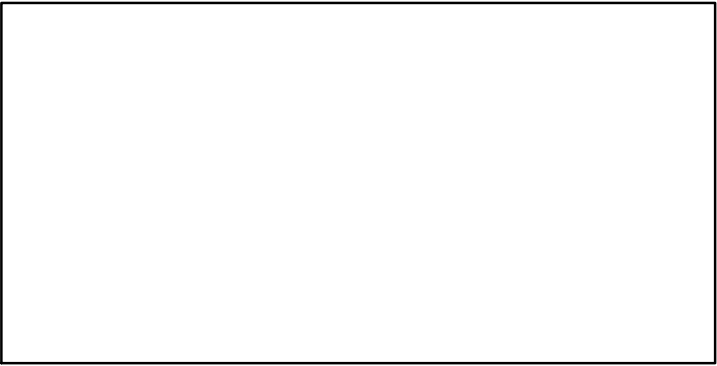
TAC*, Cpair*, Cadv*



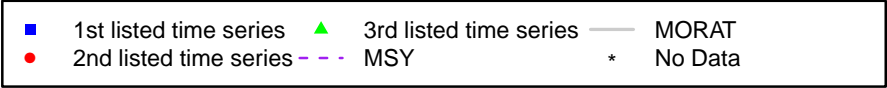
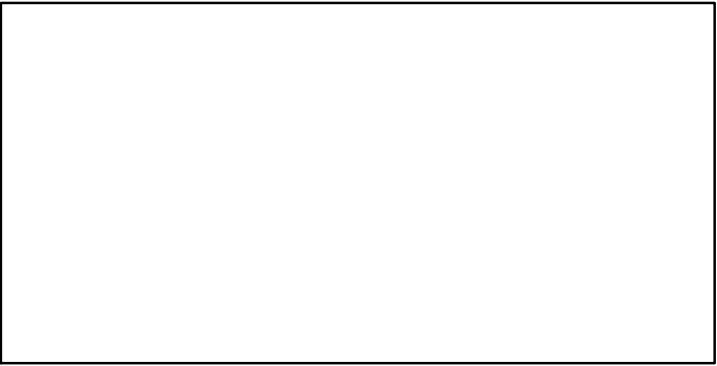
CPUE*



EFFORT*



CdivMSY*

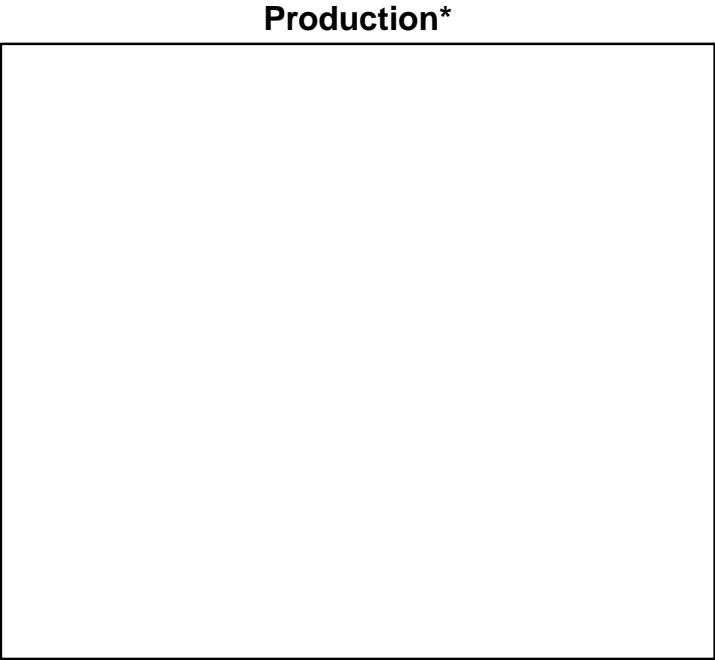
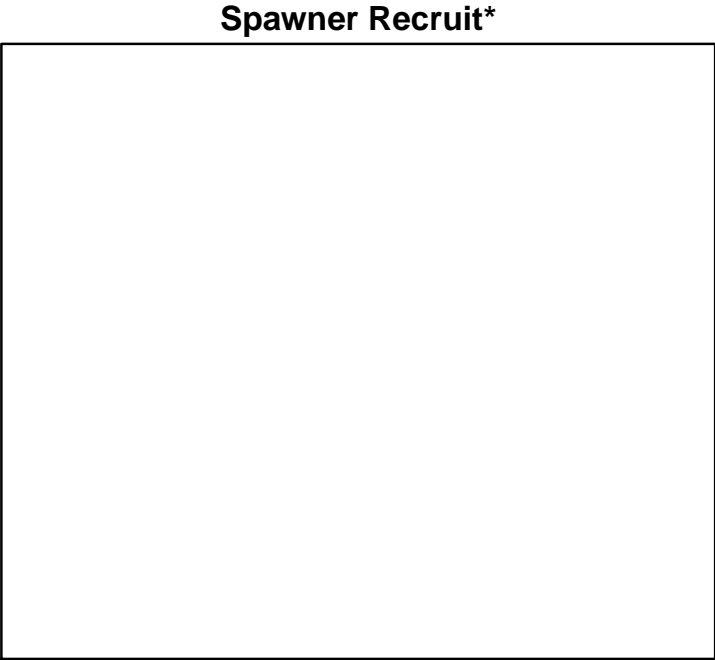
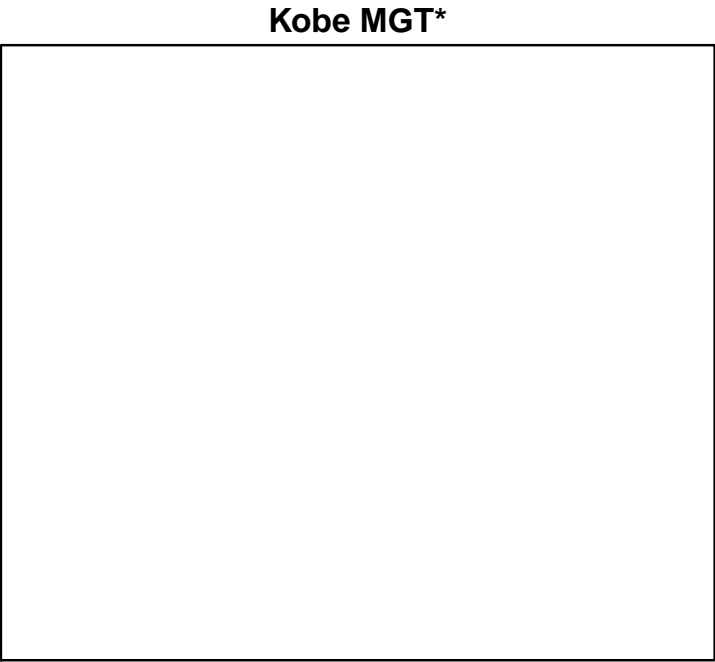
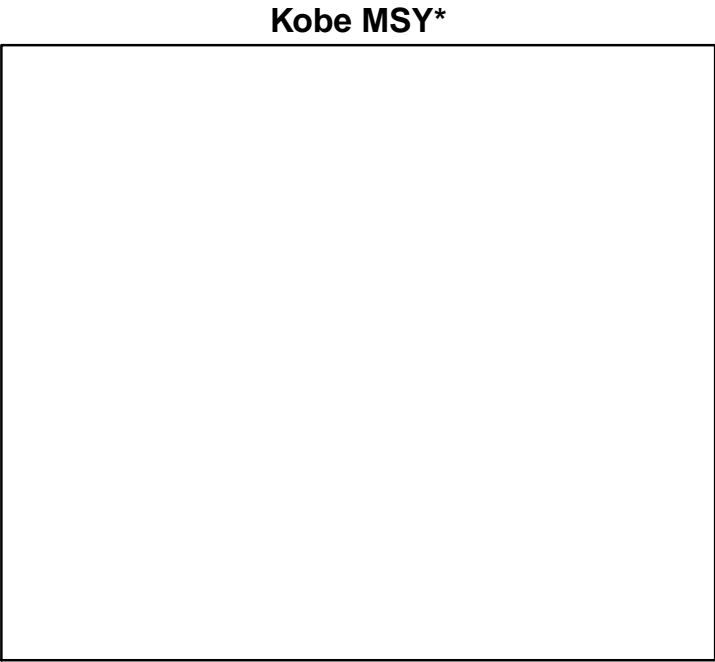


Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGBFAS-TUR2232-1970-2017-ICESIMP2018
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2016, 2016, 2017

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

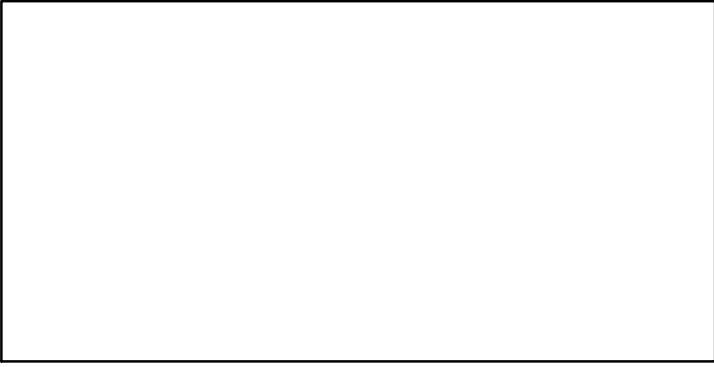
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	322		
TL	TL-MT	2017	264		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



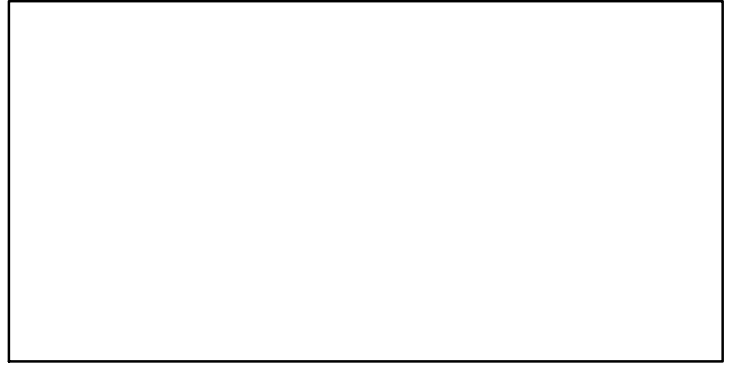
◆ Start Year ◆ End Year * No Data

Turbot Baltic Areas 22–32 [TUR2232]

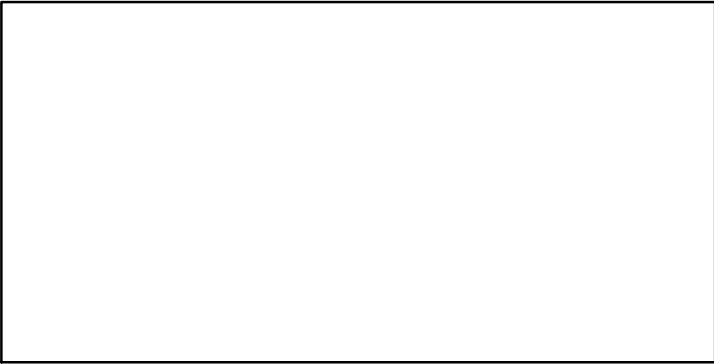
TB*



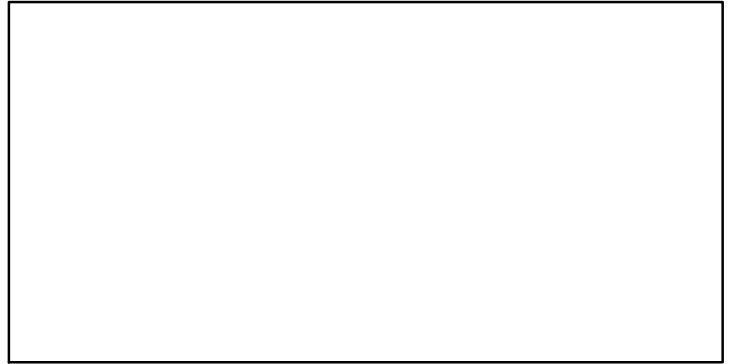
SSB*



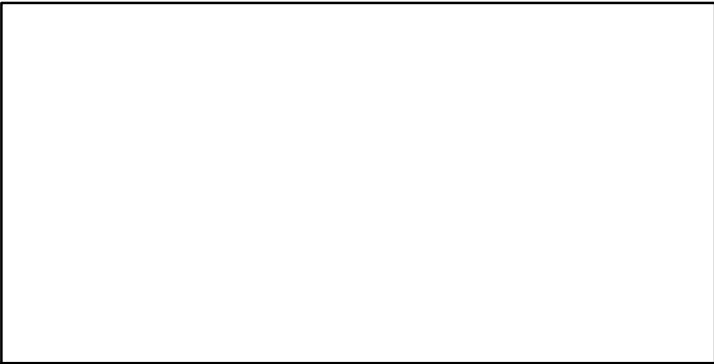
TN *



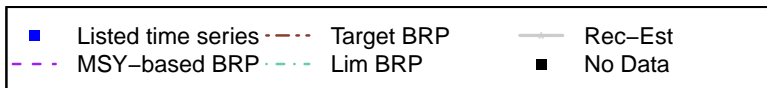
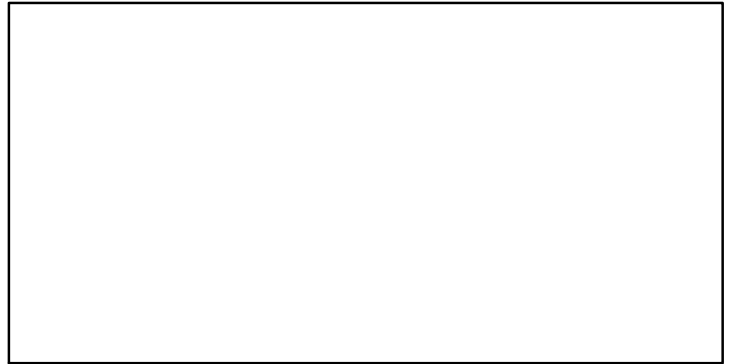
F*



ER*

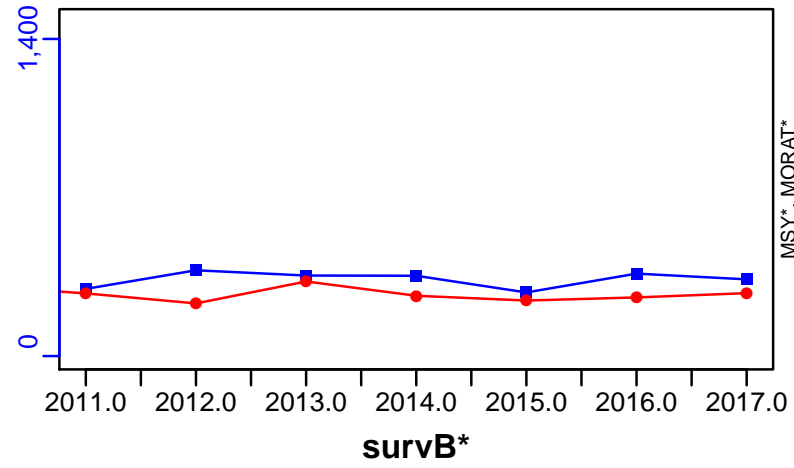


Recruits*

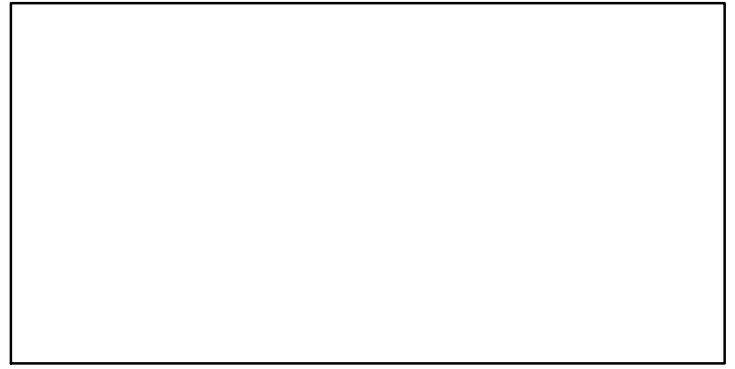


Turbot Baltic Areas 22–32 [TUR2232]

TC-MT, TL-MT, RecC* (1970–2017–ICESIMP2018)



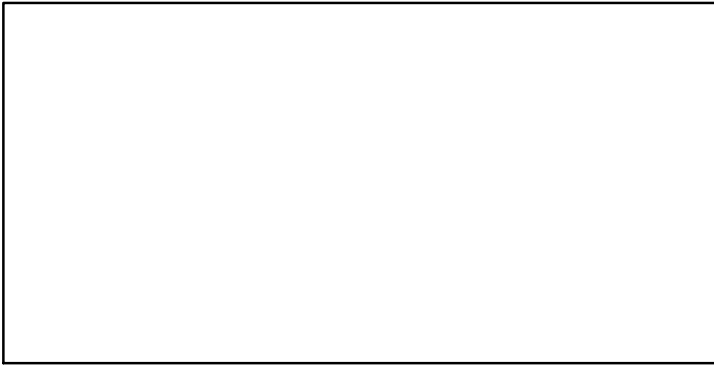
TAC*, Cpair*, Cadv*



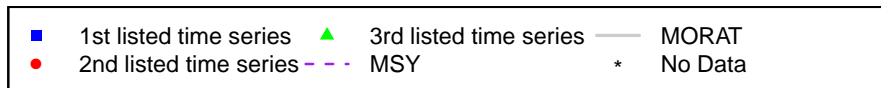
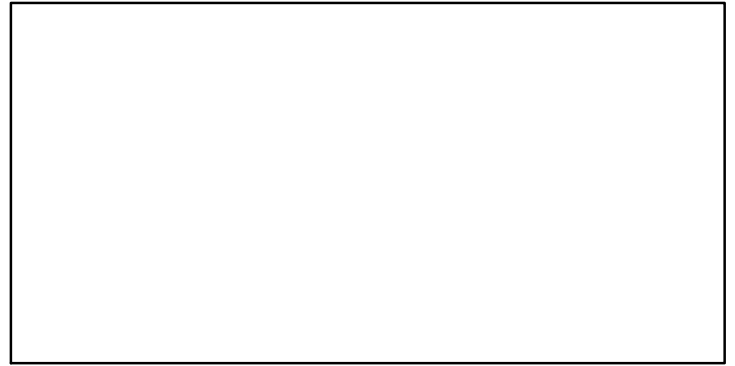
CPUE*



EFFORT*



CdivMSY*



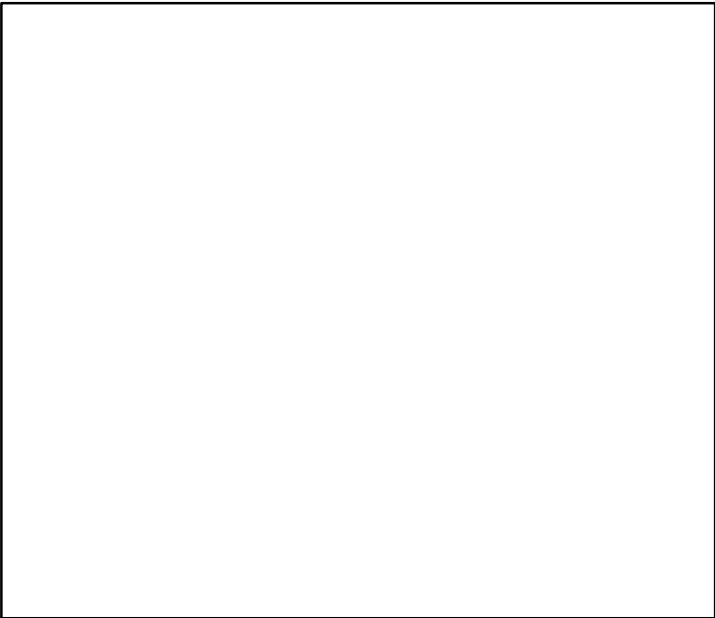
Turbot Kattegat and Skagerrak [TURIIIa]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIIIa-1960-2016-ICESIMP2018
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	2016, 2015

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	0.652	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	204		
TL	TL-MT	2016	188		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

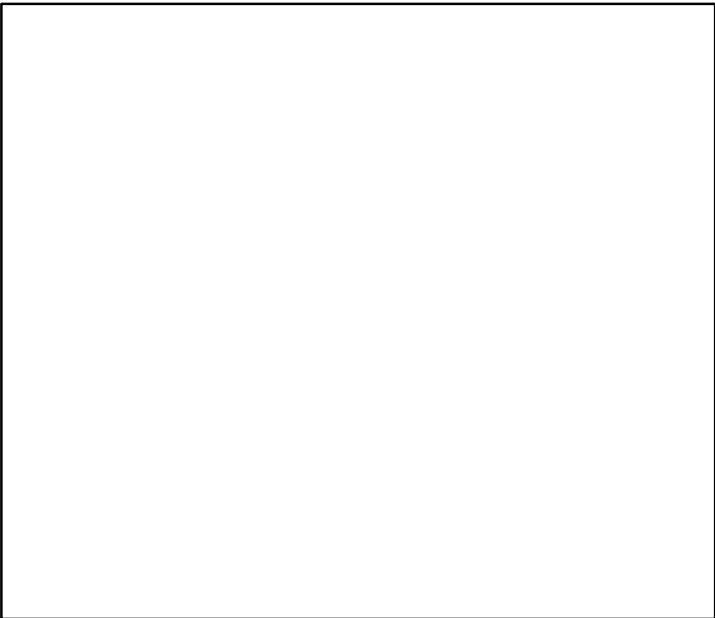
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



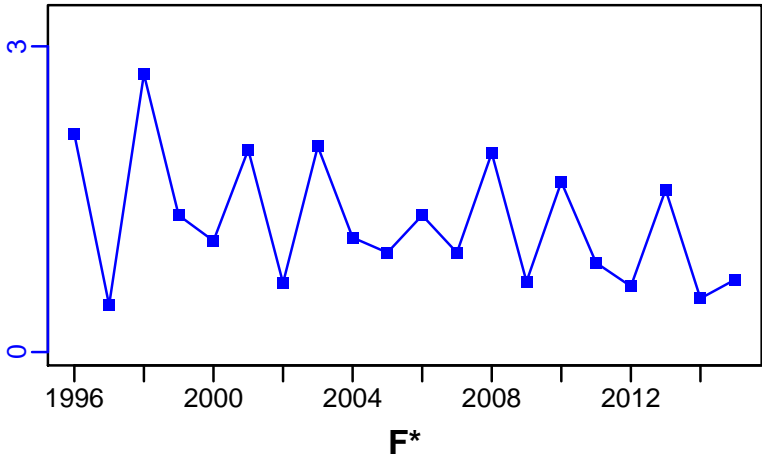
◆ Start Year ◆ End Year * No Data

Turbot Kattegat and Skagerrak [TURIIIa]

TB*



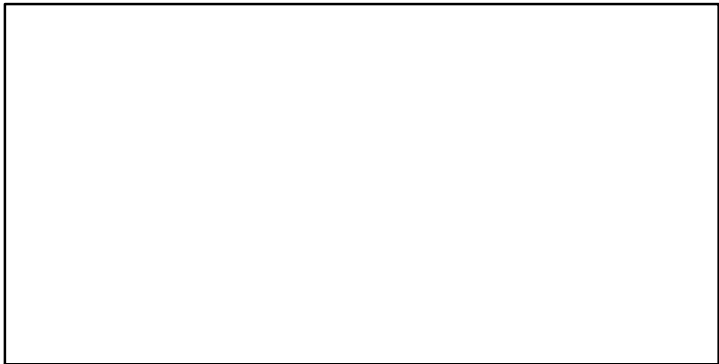
SSB-MT (1964–2015–ICESIMP2018)



TN *



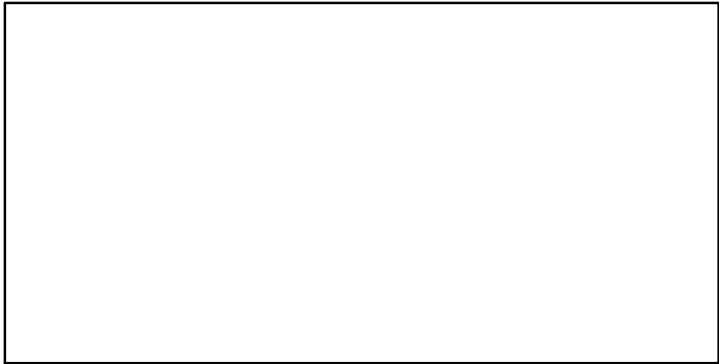
F*



ER*

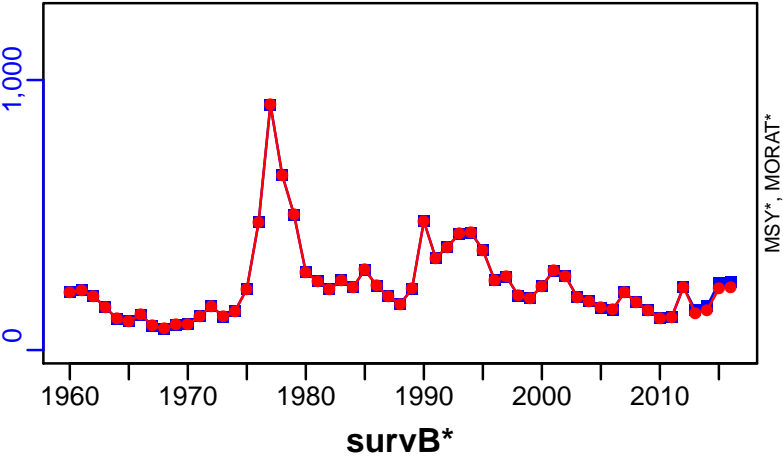


Recruits*

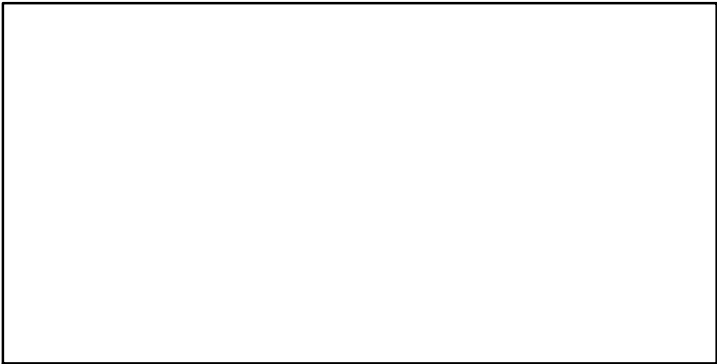


Turbot Kattegat and Skagerrak [TURIIIa]

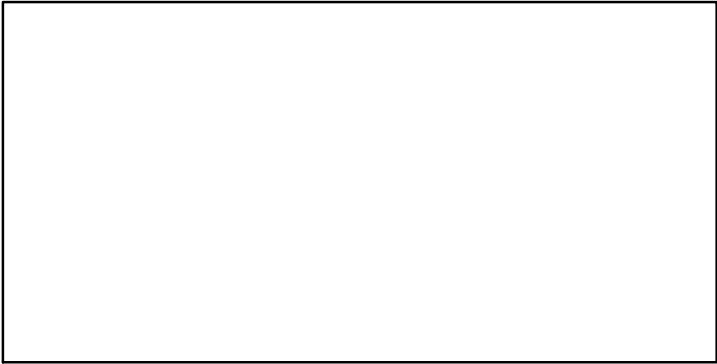
TC-MT, TL-MT, RecC* (1960–2016–ICESIMP2018)



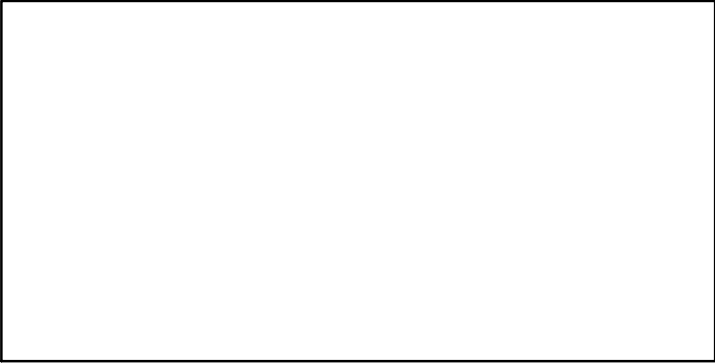
TAC*, Cpair*, Cadv*



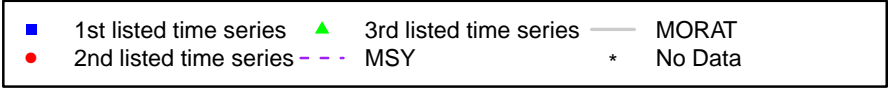
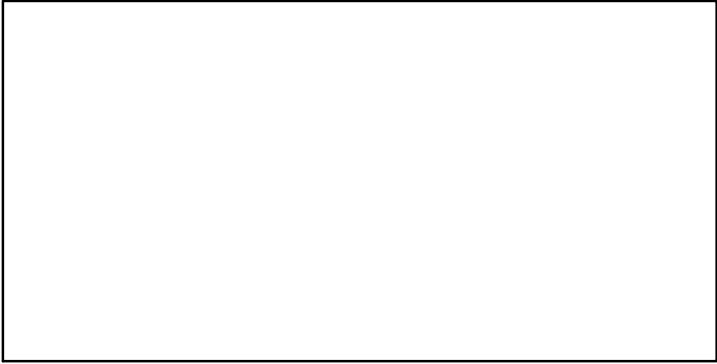
CPUE*



EFFORT*



CdivMSY*



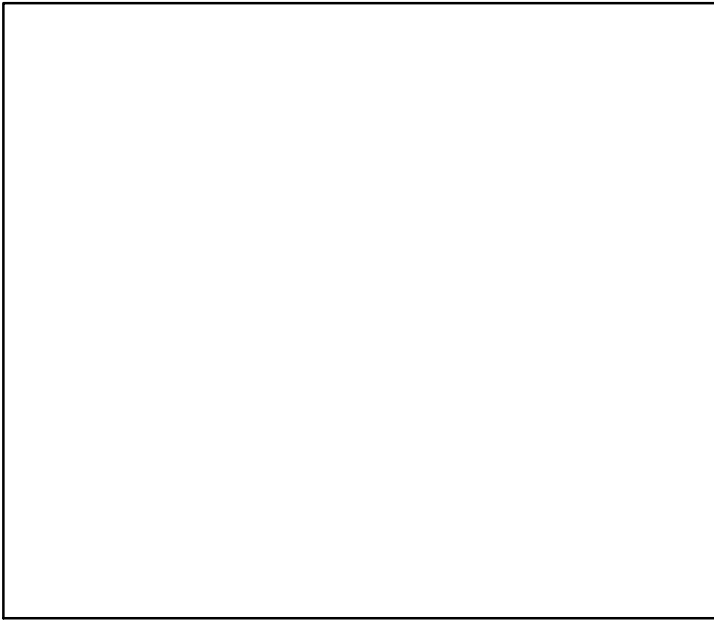
Turbot North Sea [TURIV]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIV-1980-2016-ICESIMP2018
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2013, 2014, 2015, 2016

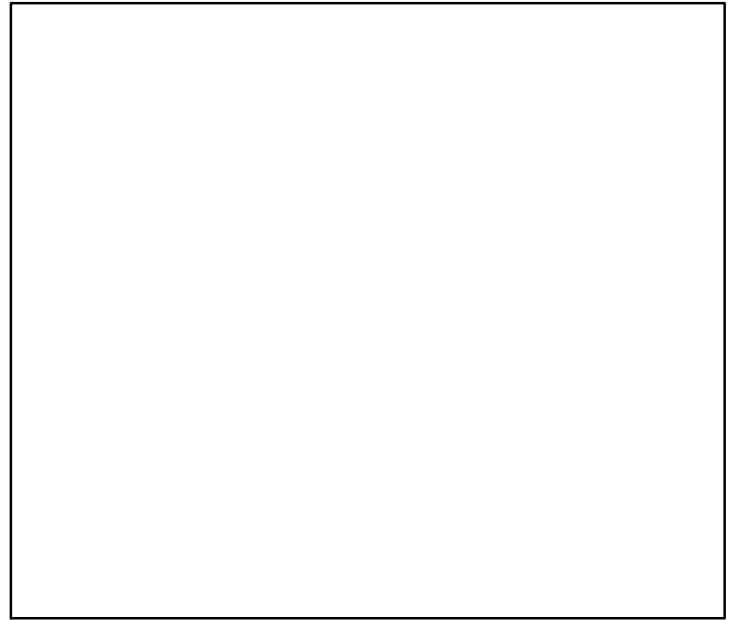
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2014	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	1.37	Both	-
TN	-	-	-	-	-
R	R-relative	2016	0.89	-	1
F	F-relative	2016	0.763	-	2 to 6
ER	-	-	-	-	-
TC	TC-MT	2016	4160		
TL	TL-MT	2016	3490		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

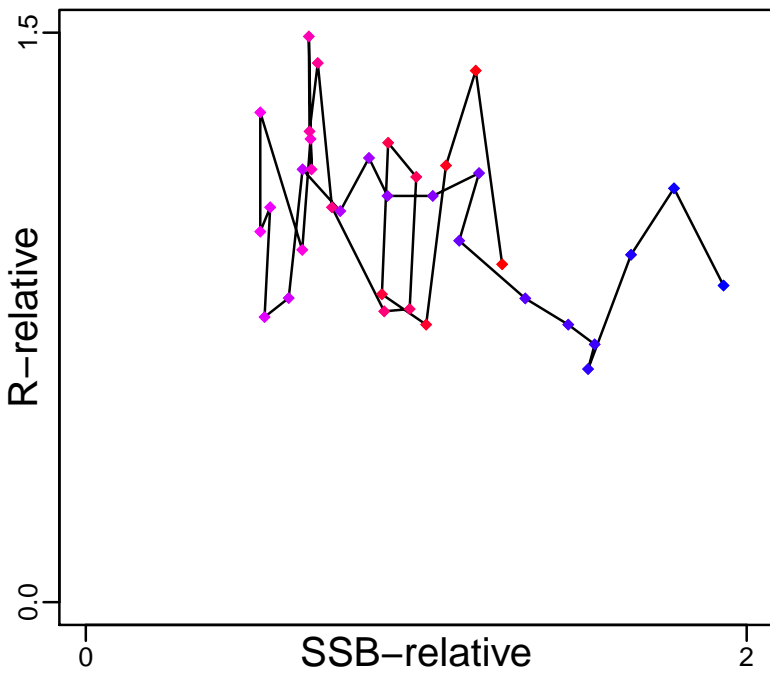
Kobe MSY*



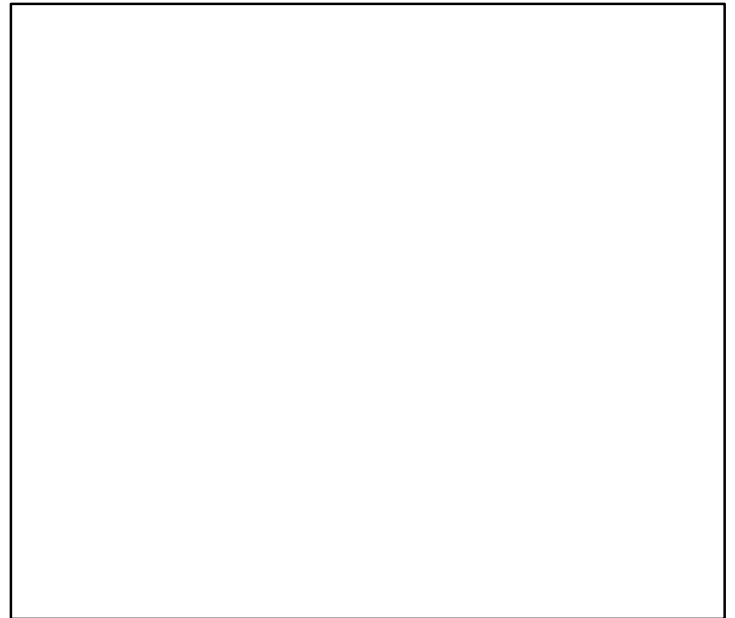
Kobe MGT*



Spawner Recruit (1980–2016–ICESIMP2018)



Production*



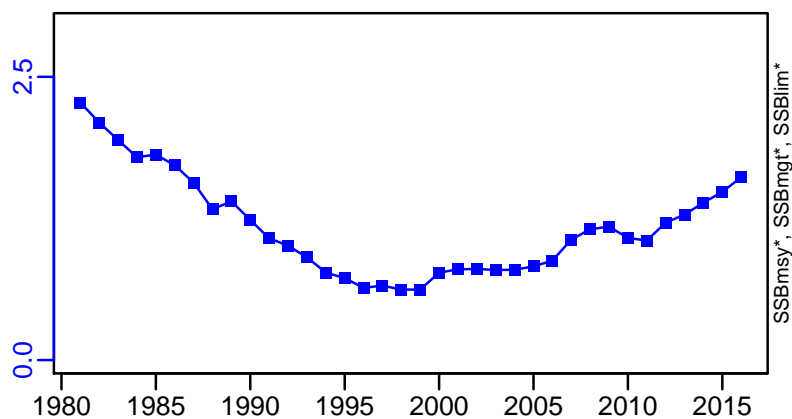
◆ Start Year ◆ End Year * No Data

Turbot North Sea [TURIV]

TB*



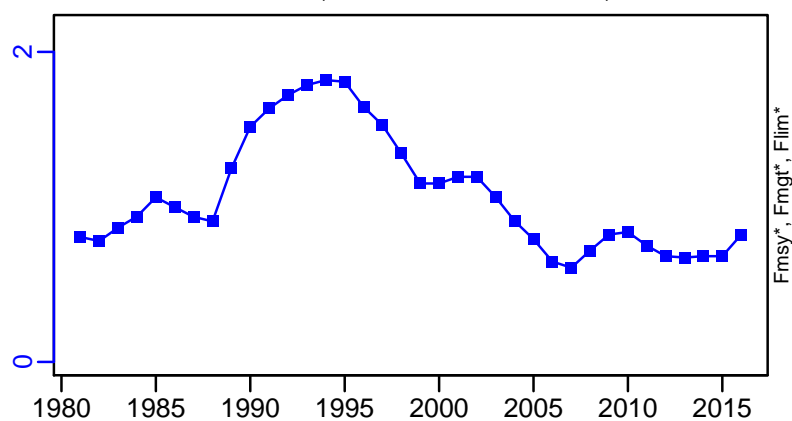
SSB-relative (1980–2016–ICESIMP2018)



TN *



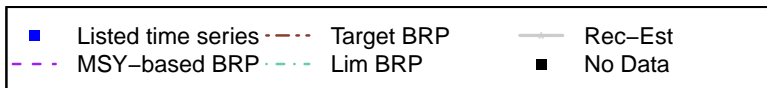
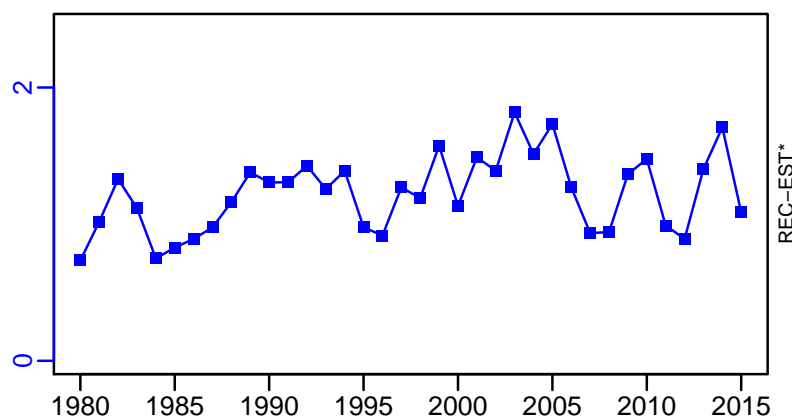
F-relative (1980–2016–ICESIMP2018)



ER*

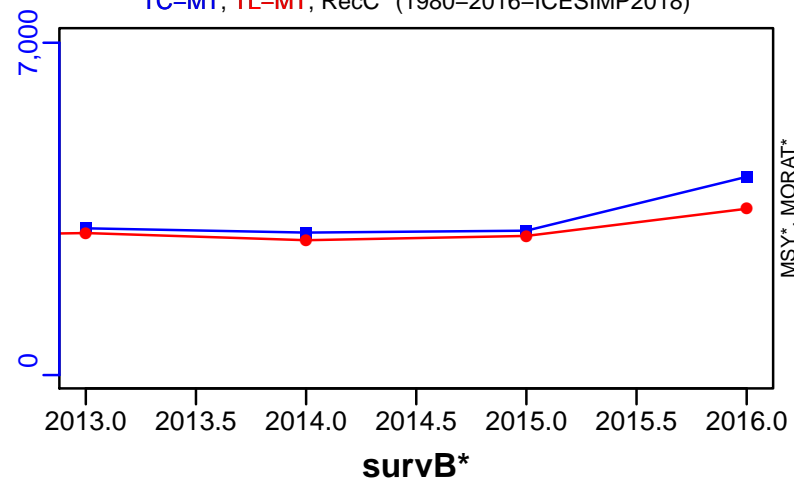


R-relative (1980–2016–ICESIMP2018)

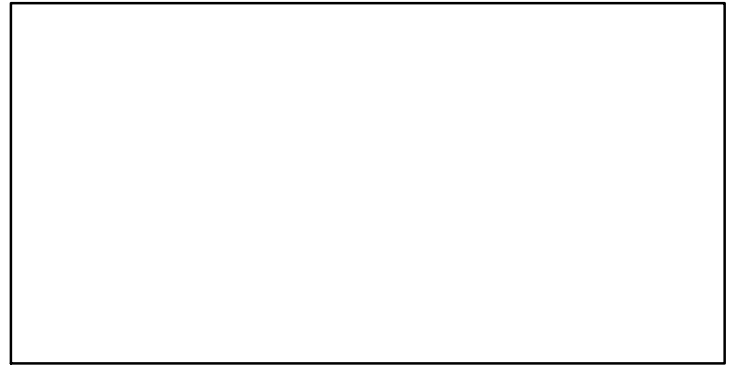


Turbot North Sea [TURIV]

TC-MT, TL-MT, RecC* (1980–2016–ICESIMP2018)



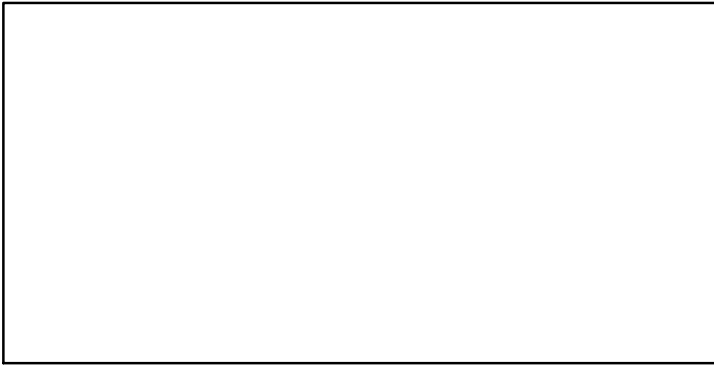
TAC*, Cpair*, Cadv*



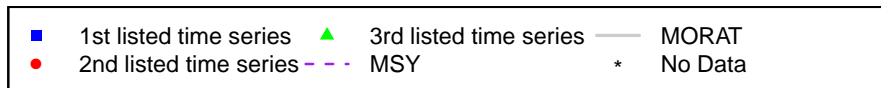
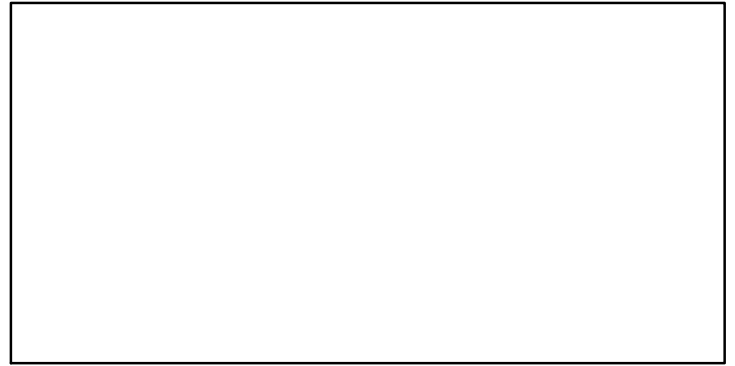
CPUE*



EFFORT*



CdivMSY*



Undulate ray VIIde [URAYVIIde]

Metadata	
Scientific Name	Raja undulata
Current Assess ID	WGEF-URAYVIIde-2008-2017-ICESIMP2018
Area	VIIde
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-MT	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	-	-	-		

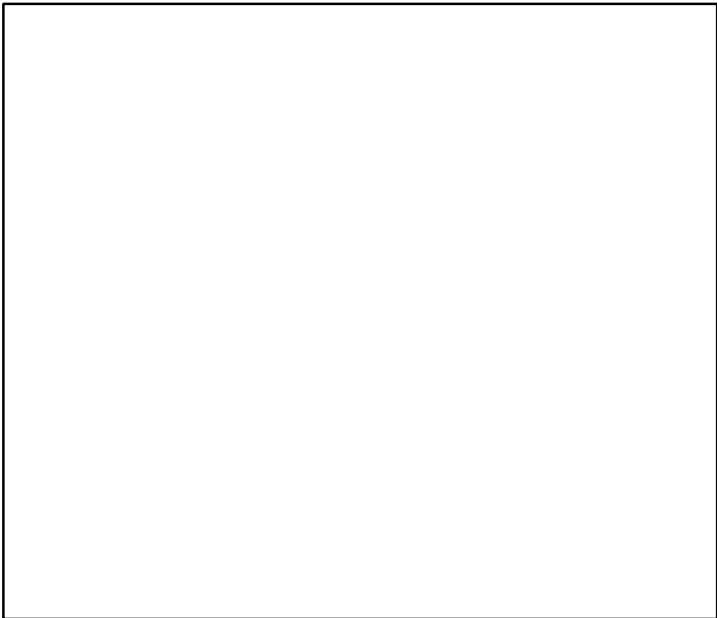
Kobe MSY*



Kobe MGT*



Spawner Recruit*



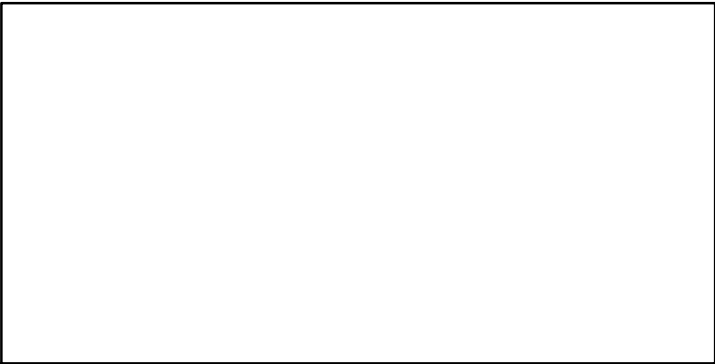
Production*



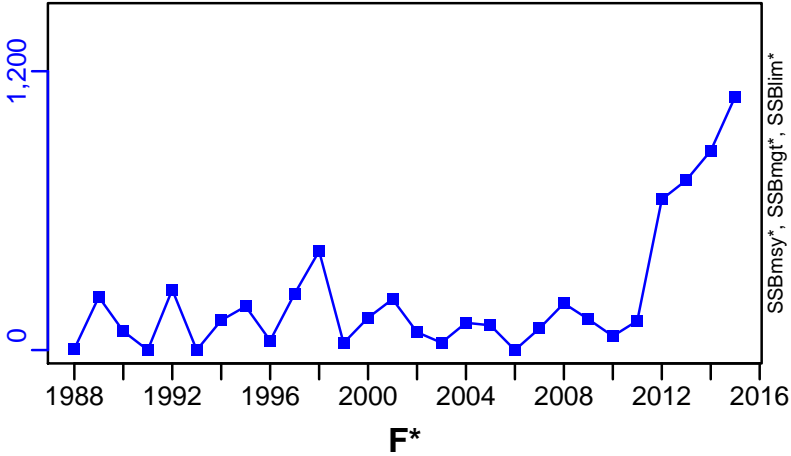
◆ Start Year ◆ End Year * No Data

Undulate ray Vilde [URAYVilde]

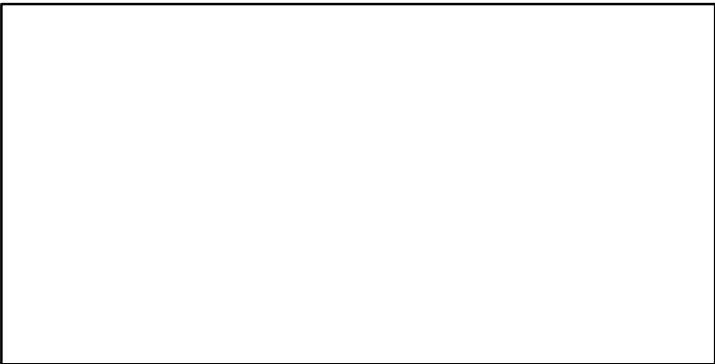
TB*



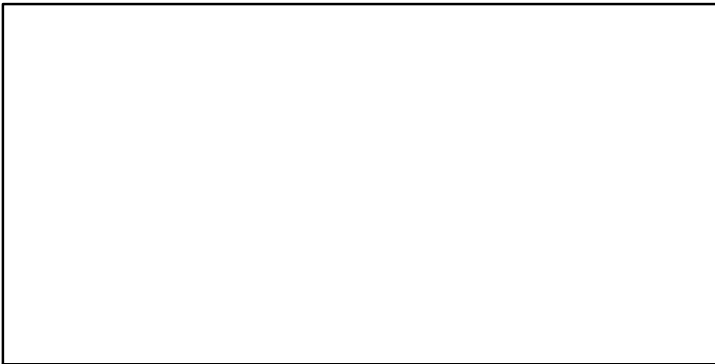
SSB-MT (1988–2015–ICESIMP2018)



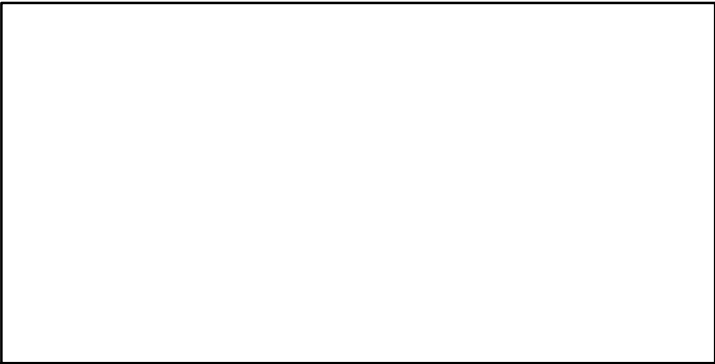
TN *



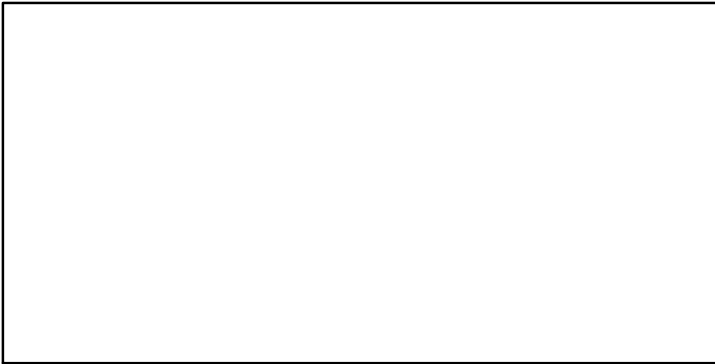
F*



ER*

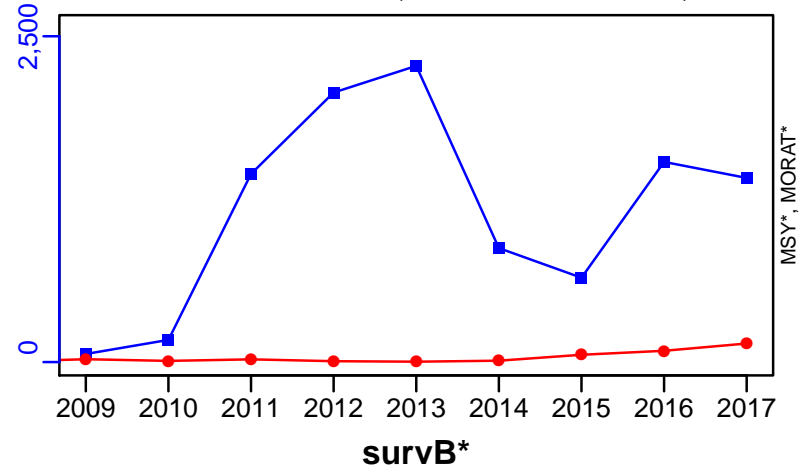


Recruits*

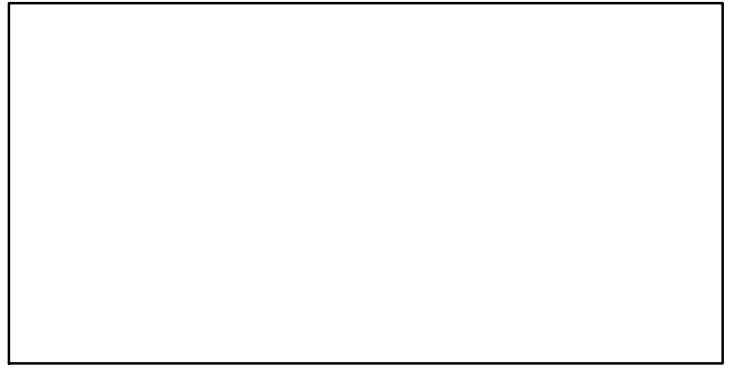


Undulate ray Vilde [URAYVilde]

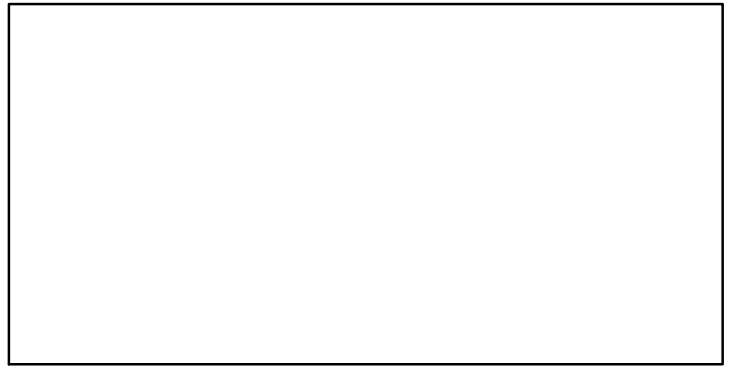
TC-MT, TL-MT, RecC* (2008–2017–ICESIMP2018)



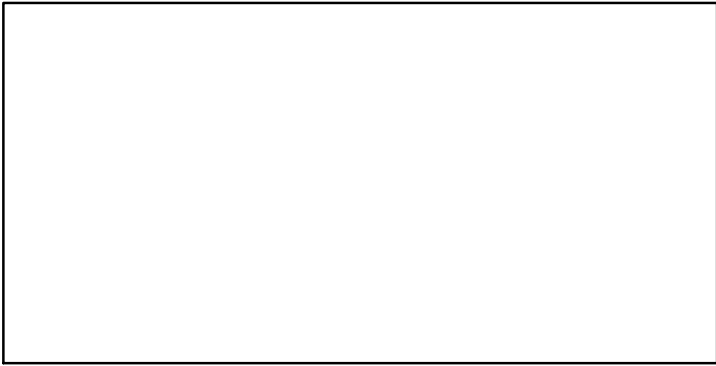
TAC*, Cpair*, Cadv*



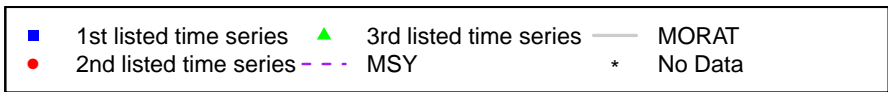
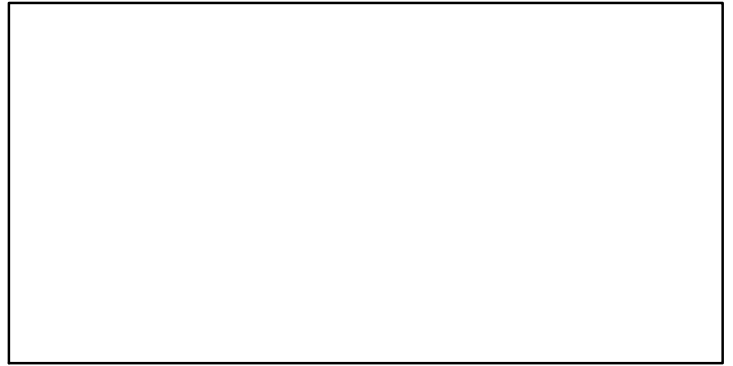
CPUE*



EFFORT*



CdivMSY*



Undulate ray Villab [URAYVillab]

Metadata	
Scientific Name	Raja undulata
Current Assess ID	WGEF-URAYVillab-2009-2017-ICESIMP2018
Area	Villab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	336		
TL	TL-MT	2017	22		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

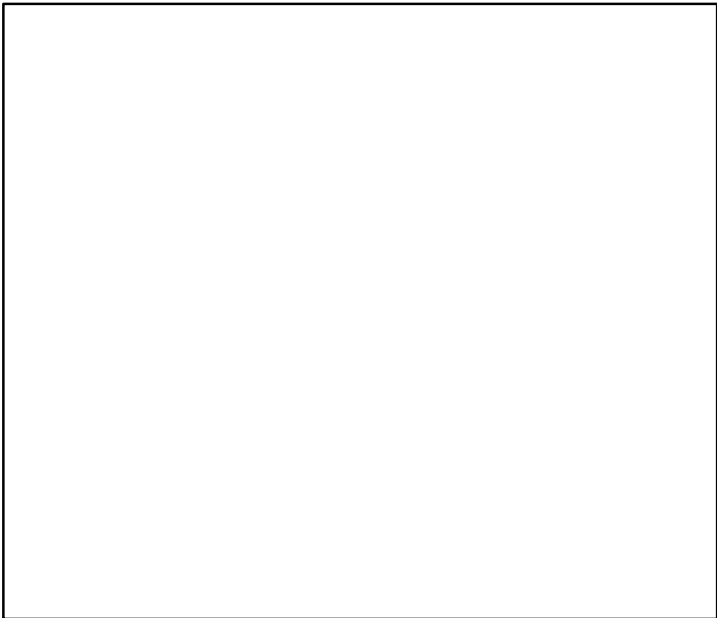
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

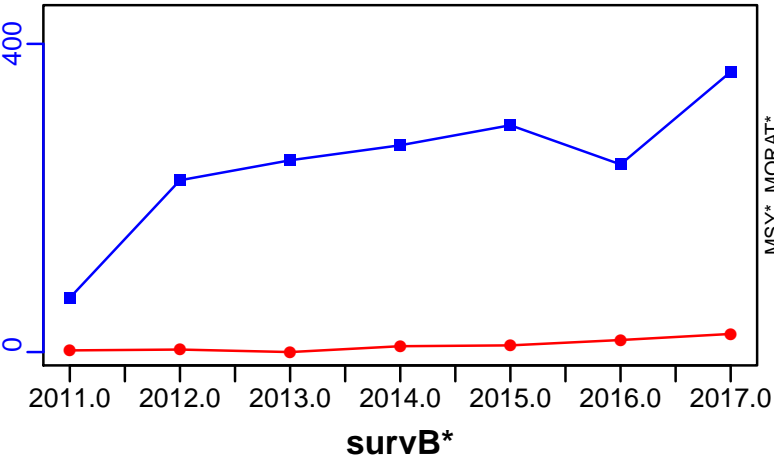


Recruits*



Undulate ray Villab [URAYVillab]

TC-MT, TL-MT, RecC* (2009–2017–ICESIMP2018)



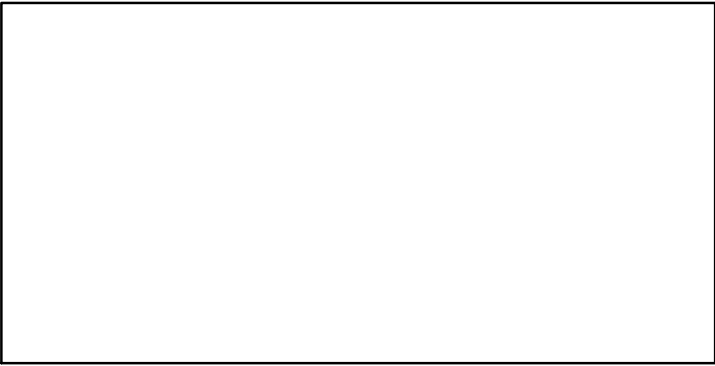
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

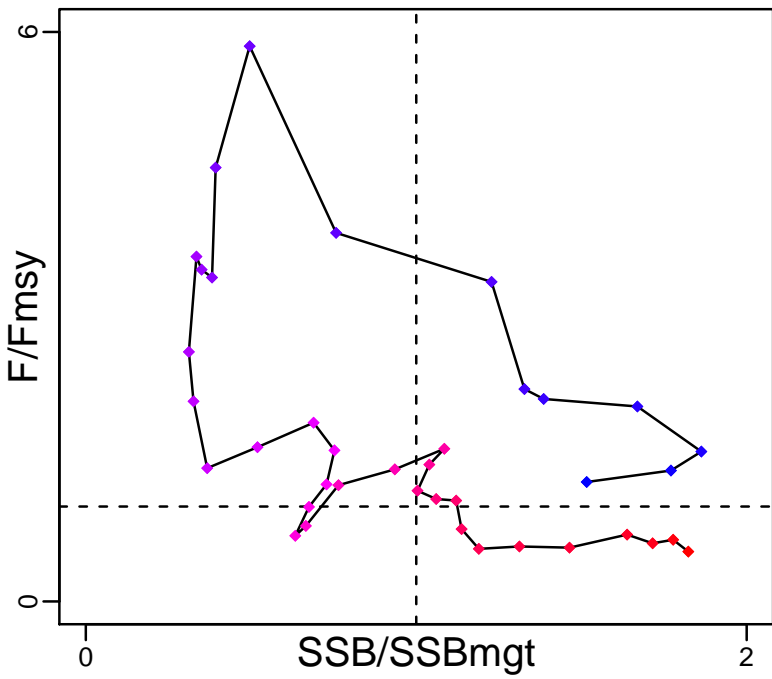
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVIIIc-IXa-1980-2018-ICESIMP2018
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2017, 2018, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	6283
Fmgt	Fmgt-1/yr	2018	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	1993
Flim	Flim-1/yr	2018	0.56
ERlim	-	-	-

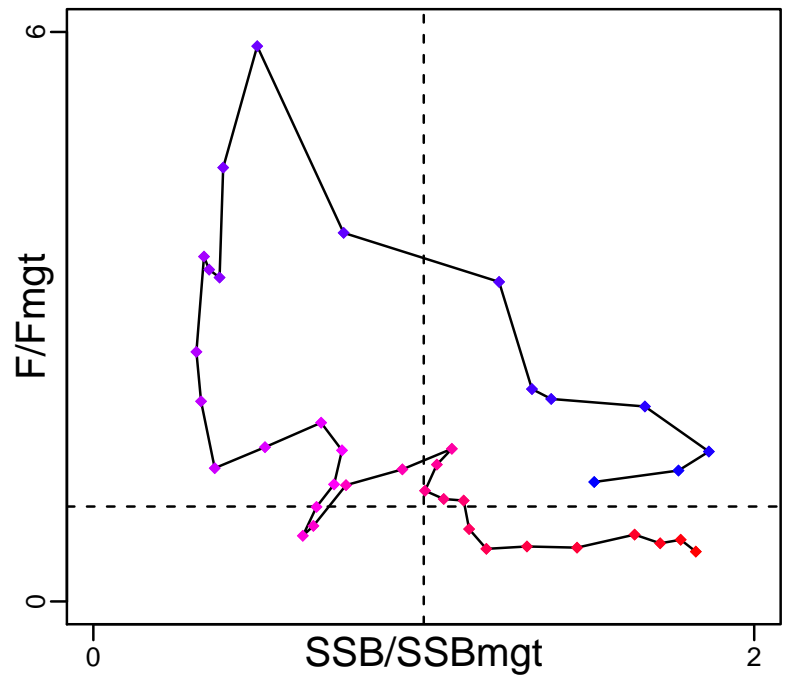
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	13,300	Both	-
SSB	SSB-MT	2018	11,800	Both	-
TN	-	-	-	-	-
R	R-E00	2018	760,000	-	0
F	F-1/yr	2018	0.126	-	-
ER	ER-calc-ratio	2018	0.108	-	-
TC	-	-	-		
TL	TL-MT	2018	1450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.525		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.884		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.525		
ER/ERmgt	-	-	-		

White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

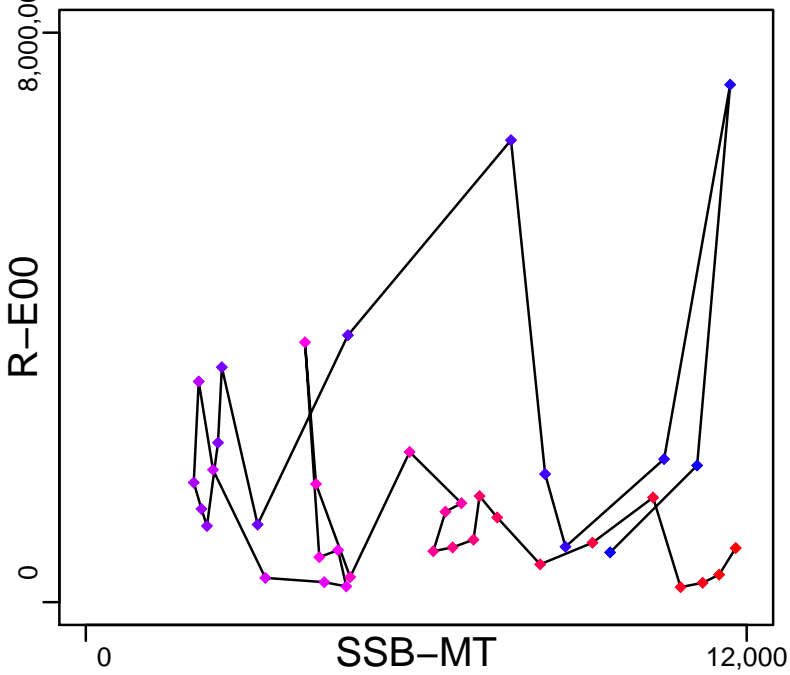
Kobe MSYpref (1980–2018–ICESIMP2018)



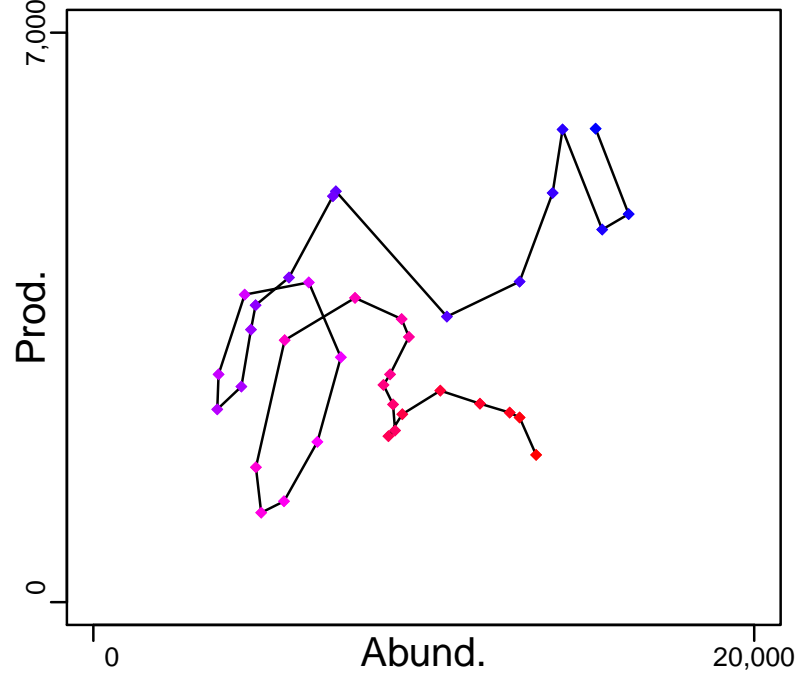
Kobe MGTpref (1980–2018–ICESIMP2018)



Spawner Recruit (1980–2018–ICESIMP2018)



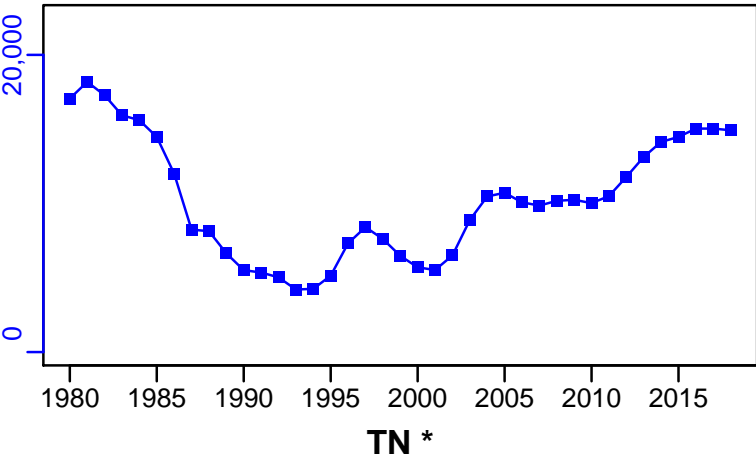
Production (1980–2018–ICESIMP2018)



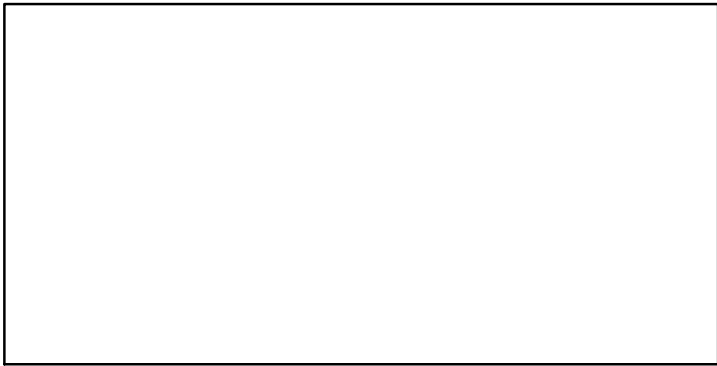
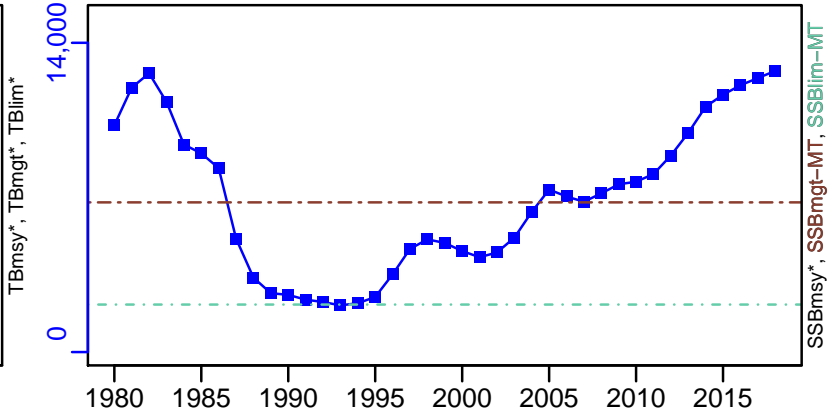
◆ Start Year ◆ End Year * No Data

White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

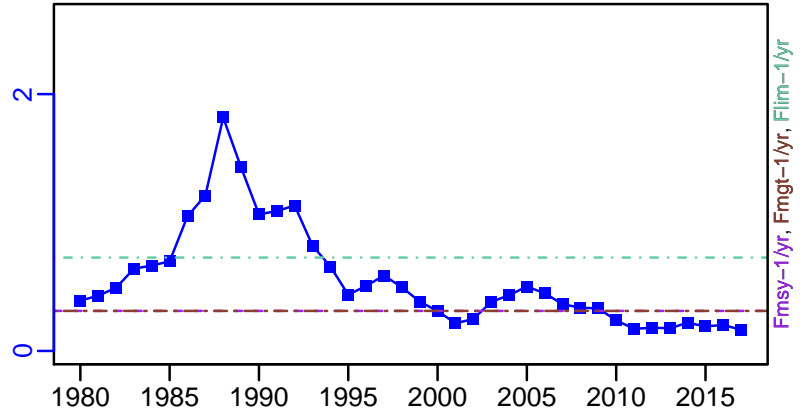
TB-MT (1980–2018–ICESIMP2018)



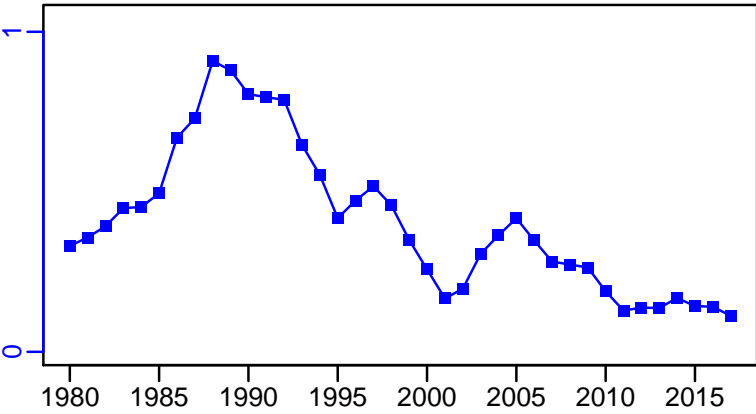
SSB-MT (1980–2018–ICESIMP2018)



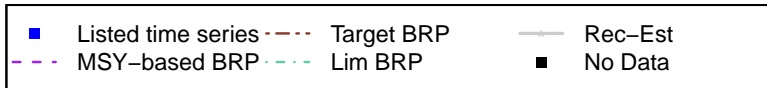
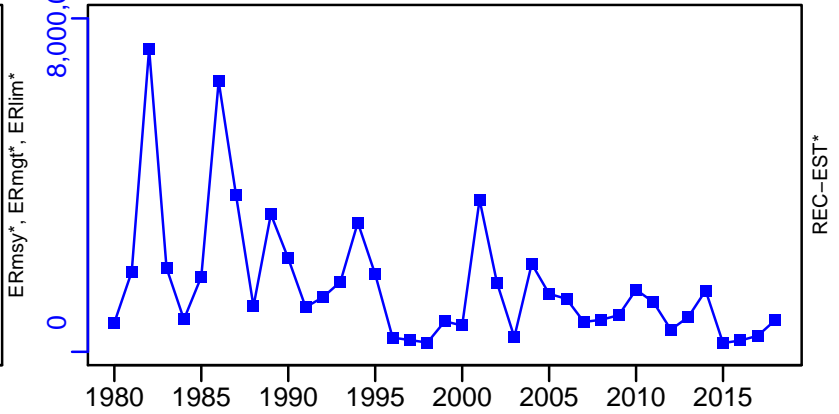
F-1/yr (1980–2018–ICESIMP2018)



ER-calc-ratio (1980–2018–ICESIMP2018)

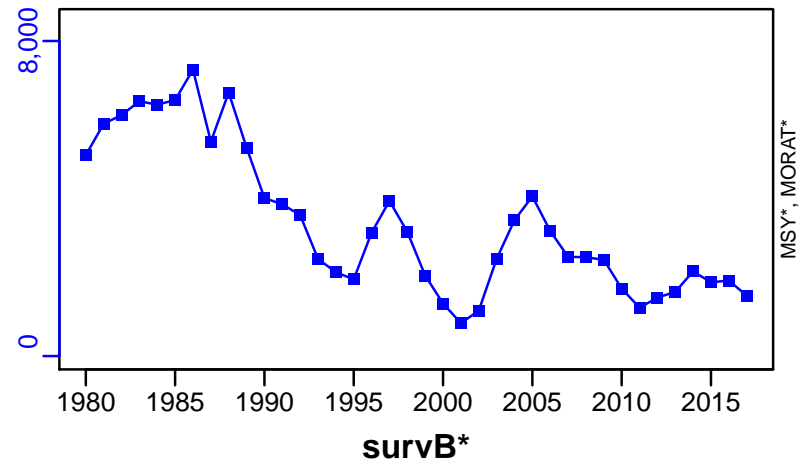


R-E00 (1980–2018–ICESIMP2018)

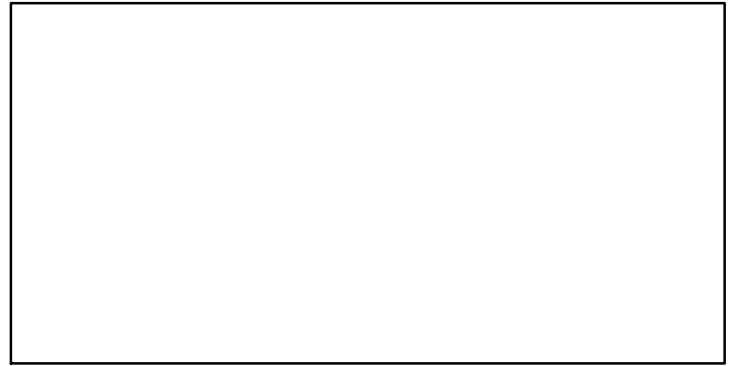


White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

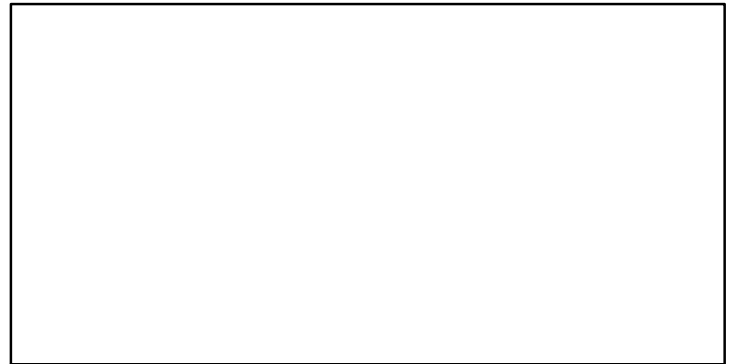
TL-MT, TC*, RecC* (1980-2018-ICESIMP2018)



TAC*, Cpair*, Cadv*



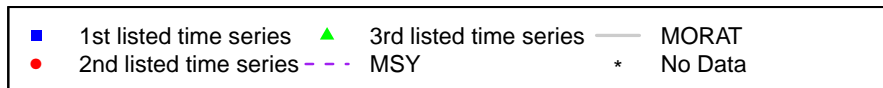
CPUE*



EFFORT*



CdivMSY*



White anglerfish VII and VIIIabd [WANGLVII-VIIIabd]

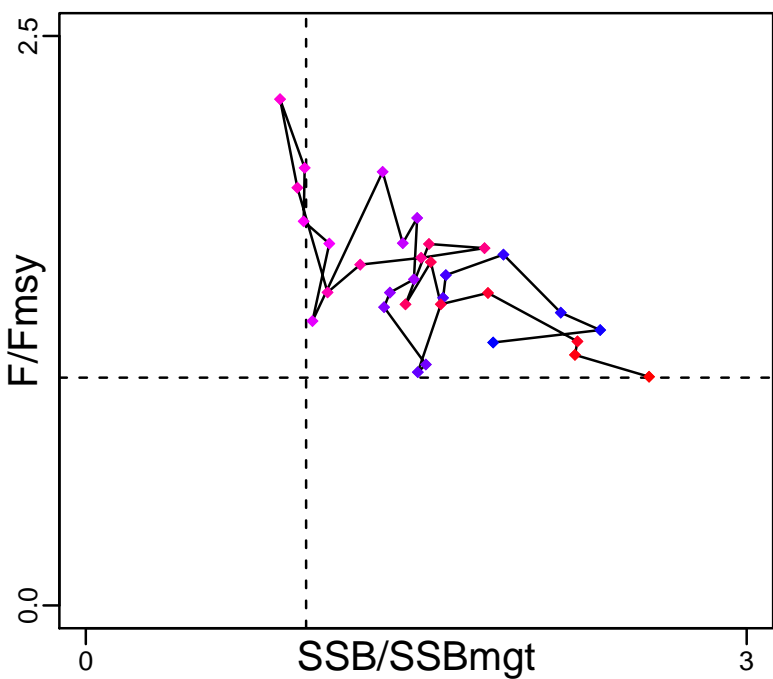
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVII-VIIIabd-1986-2018-ICESIMP2018
Area	VII and VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.28
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	22,278
Fmgt	Fmgt-1/yr	2018	0.36
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	16,032
Flim	Flim-1/yr	2018	0.53
ERlim	-	-	-

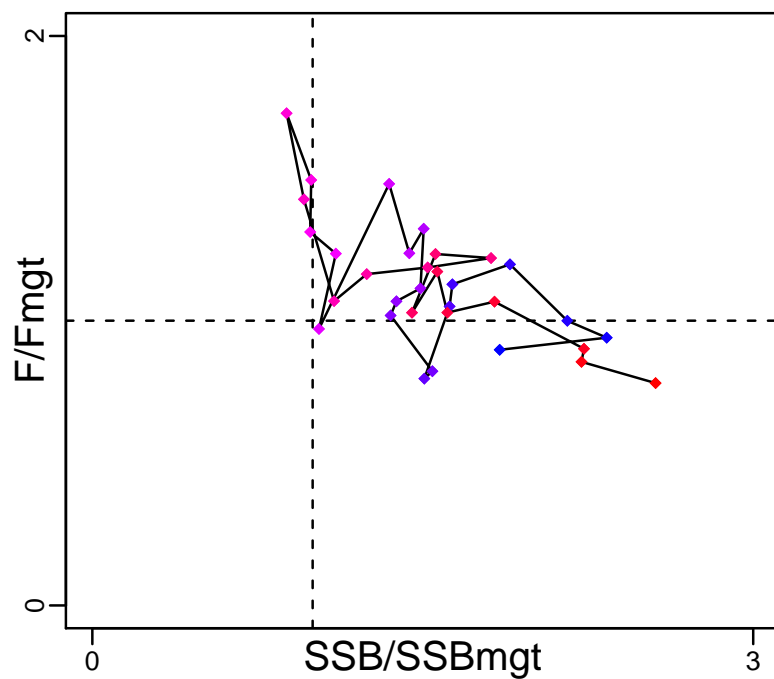
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	124,000	Both	-
SSB	SSB-MT	2018	59,800	Both	-
TN	-	-	-	-	-
R	R-E00	2018	32,300,000	-	0
F	F-1/yr	2018	0.281	-	3 to 6
ER	ER-calc-ratio	2018	0.225	-	-
TC	TC-MT	2018	27,800		
TL	TL-MT	2018	25,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.004		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	2.682		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	0.781		
ER/ERmgt	-	-	-		

White anglerfish VII and VIIIabd [WANGLVII–VIIIabd]

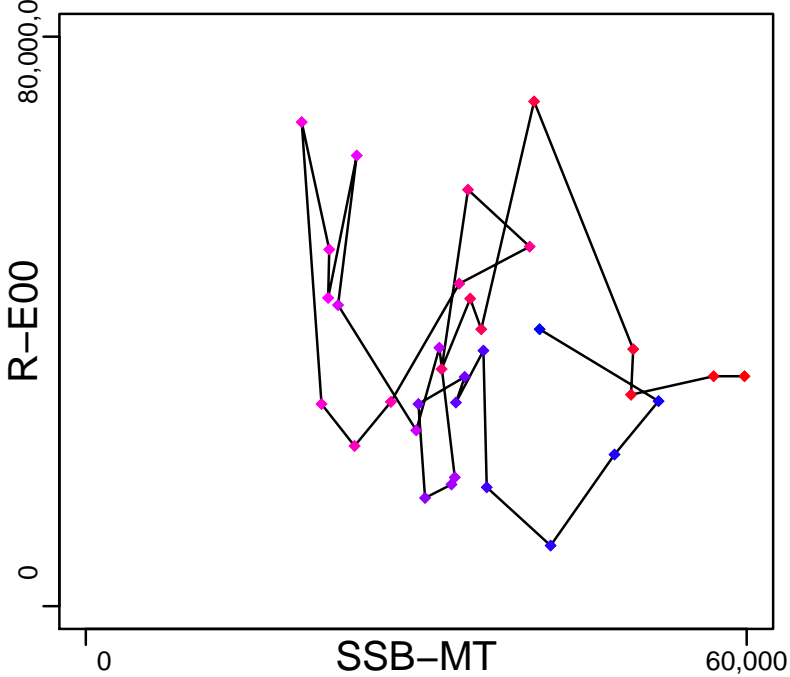
Kobe MSYpref (1986–2018–ICESIMP2018)



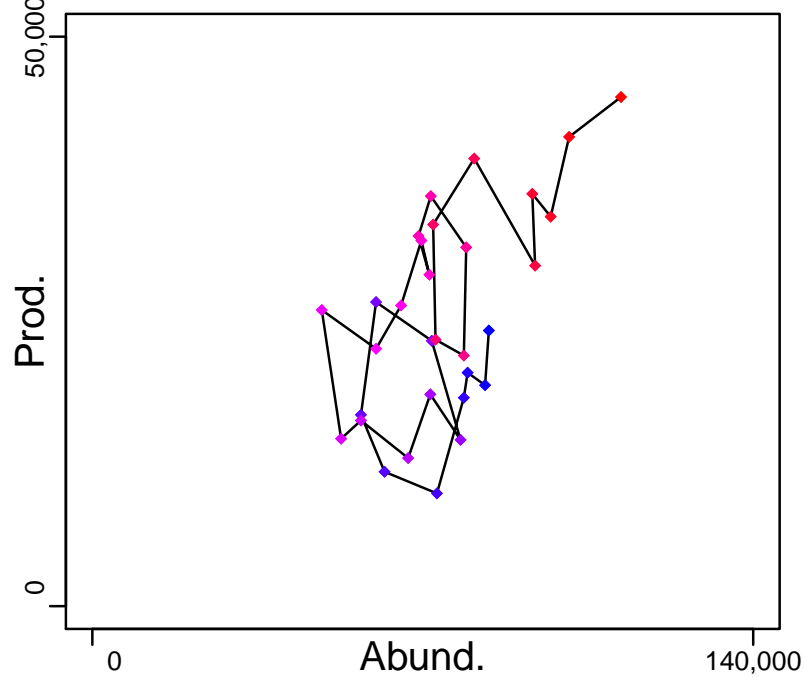
Kobe MGTpref (1986–2018–ICESIMP2018)



Spawner Recruit (1986–2018–ICESIMP2018)

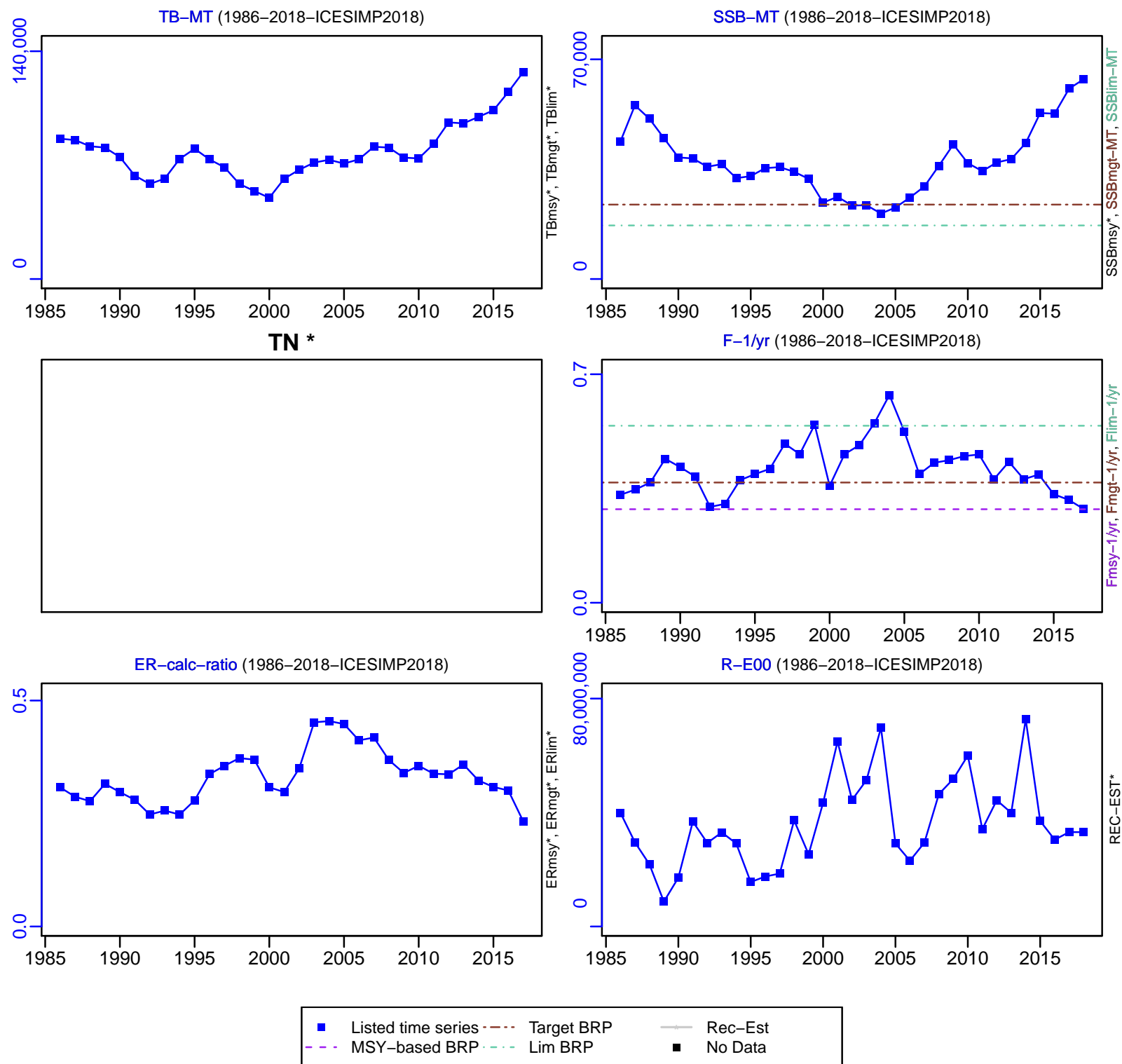


Production (1986–2018–ICESIMP2018)



◆ Start Year ◆ End Year * No Data

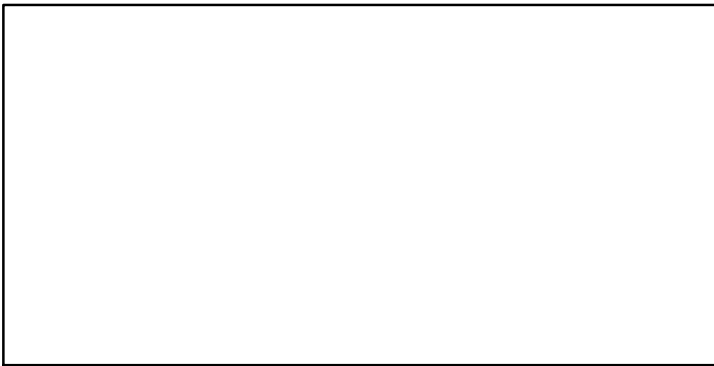
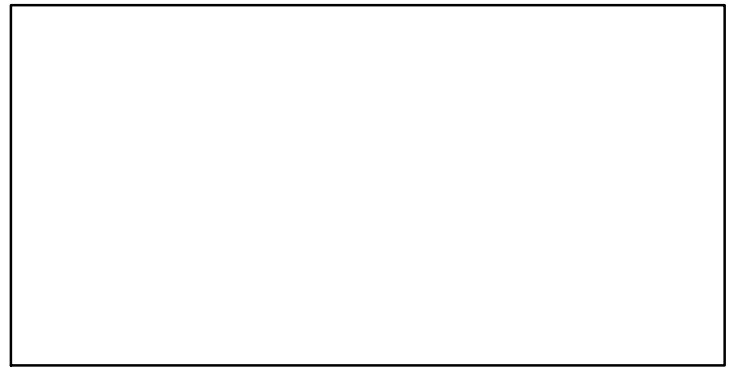
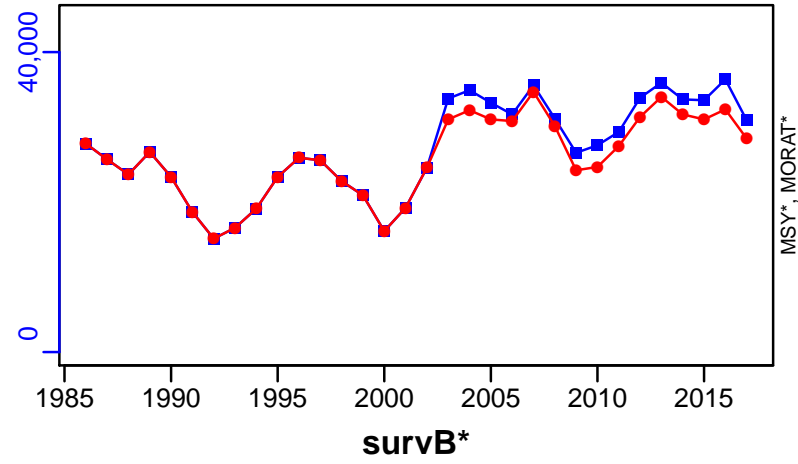
White anglerfish VII and VIIIabd [WANGLVII-VIIIabd]



White anglerfish VII and VIIIabd [WANGLVII–VIIIabd]

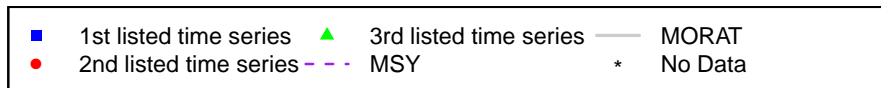
TC–MT, TL–MT, RecC* (1986–2018–ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*

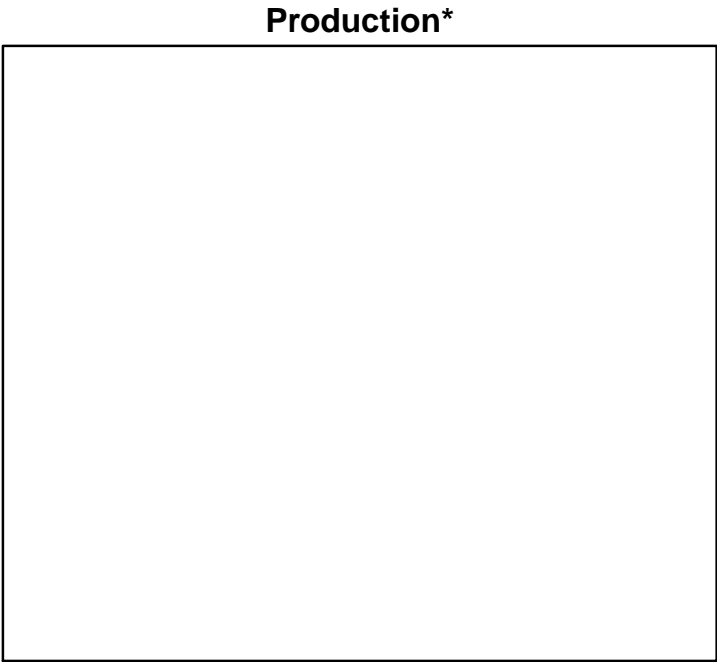
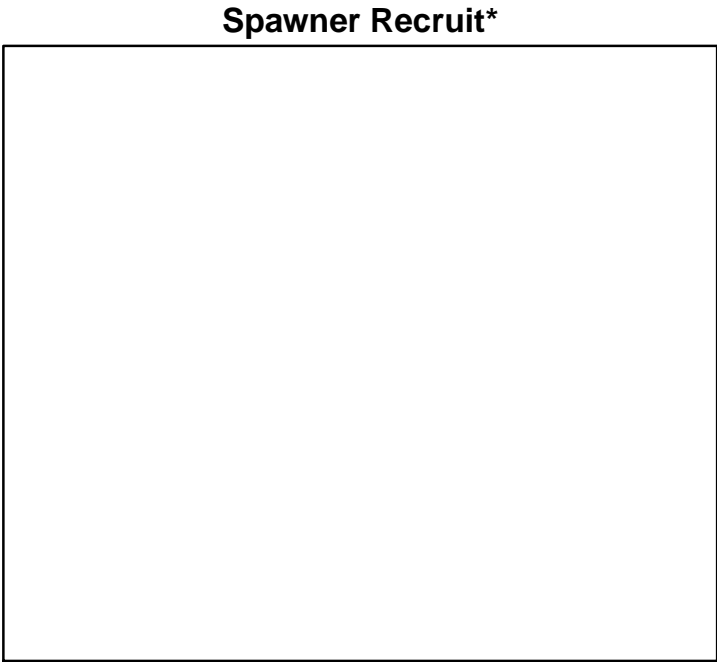
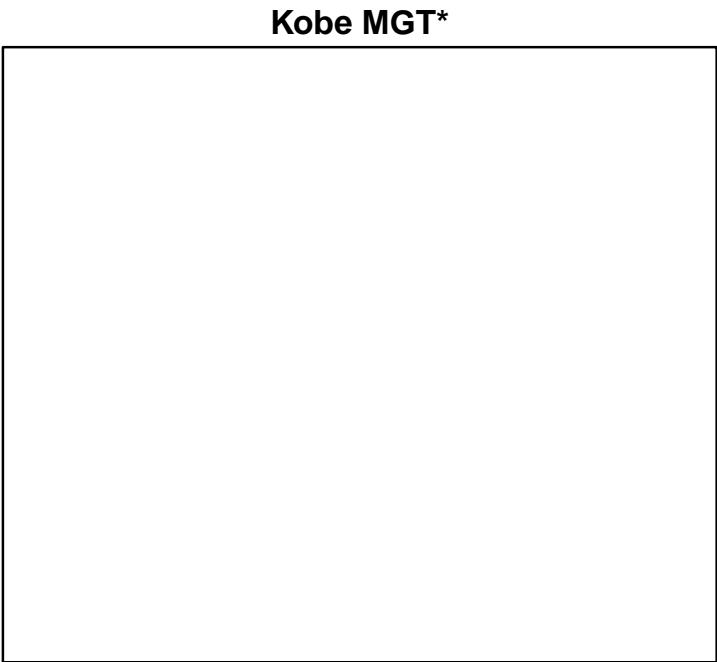
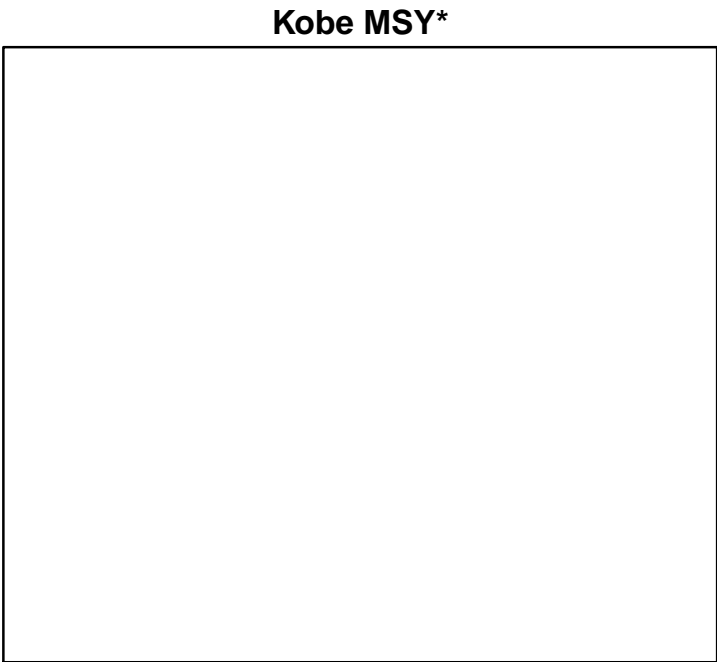


Whiting Kattegat and Skagerrak [WHITIIIa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITIIIa-1975-2016-ICESIMP2018
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	1660		
TL	TL-MT	2016	546		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

Whiting Kattegat and Skagerrak [WHITIIIa]

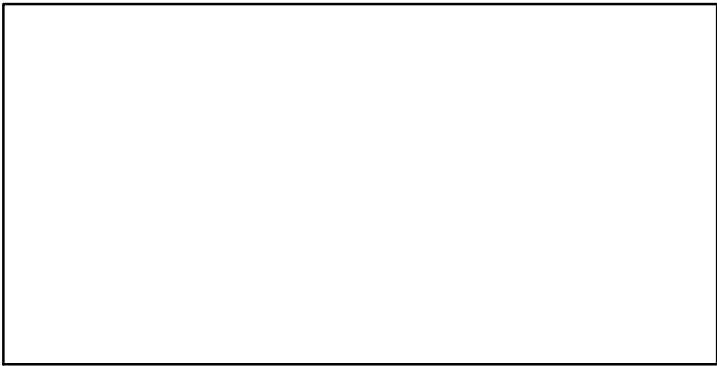
TB*



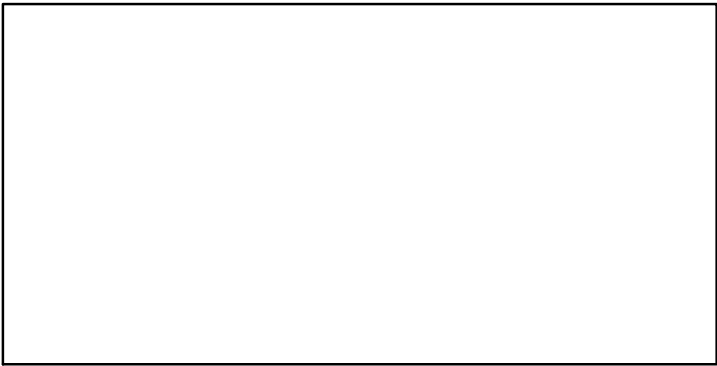
SSB*



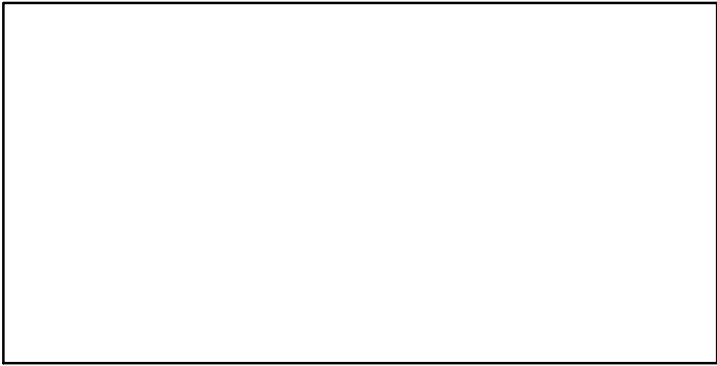
TN *



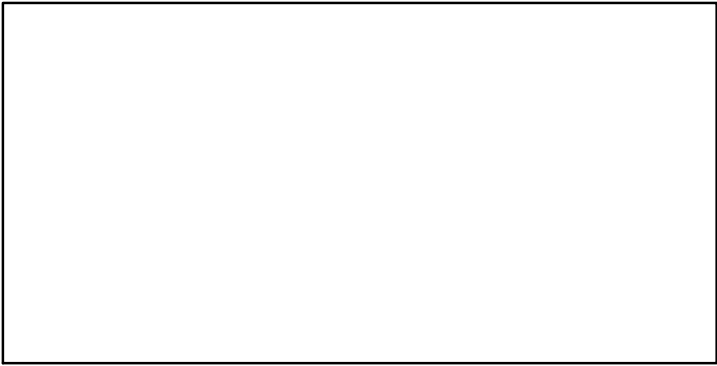
F*



ER*

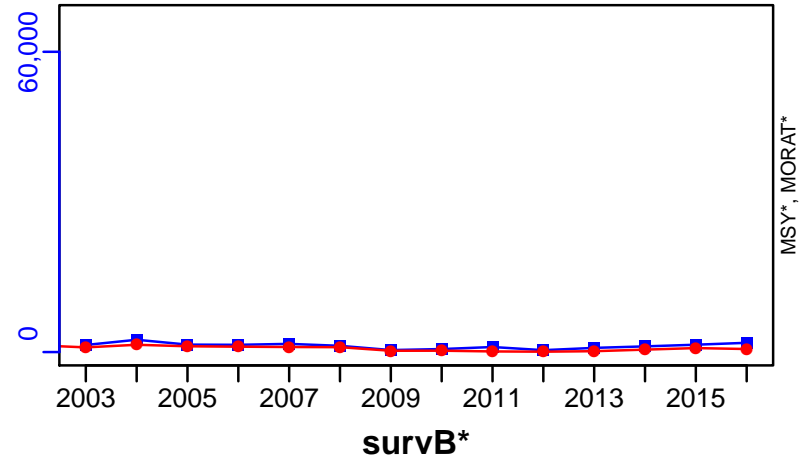


Recruits*

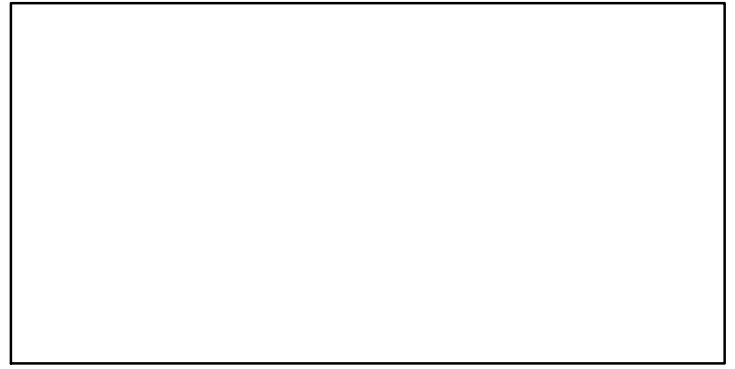


Whiting Kattegat and Skagerrak [WHITIIIa]

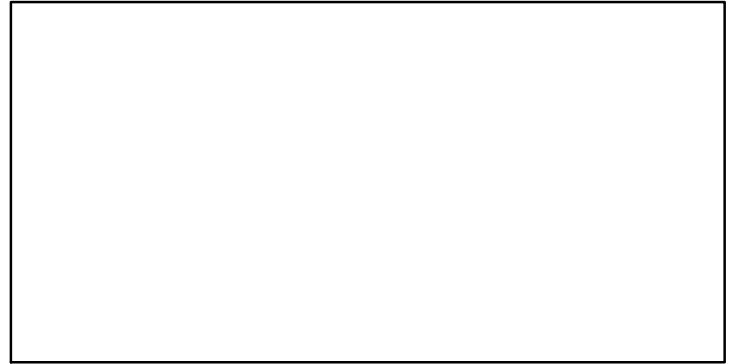
TC-MT, TL-MT, RecC* (1975–2016–ICESIMP2018)



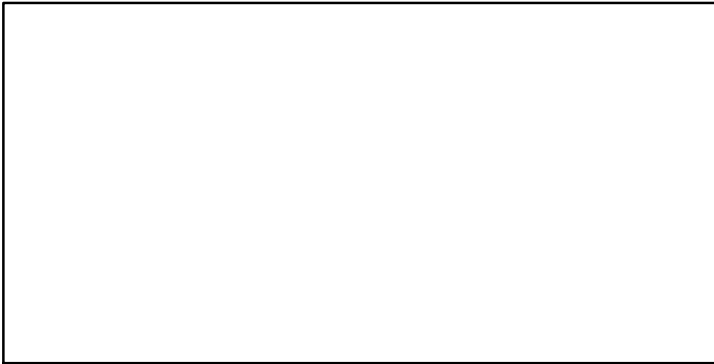
TAC*, Cpair*, Cadv*



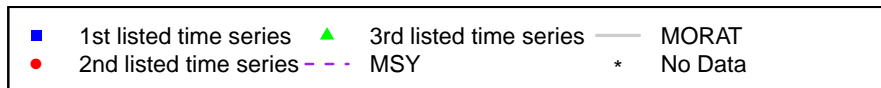
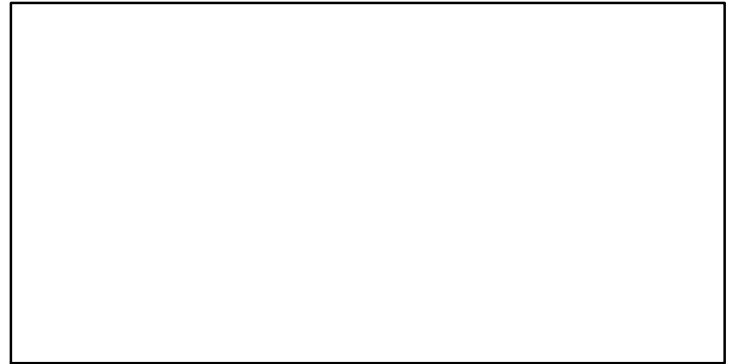
CPUE*



EFFORT*



CdivMSY*



Whiting NS-VIId [WHITNS-VIId]

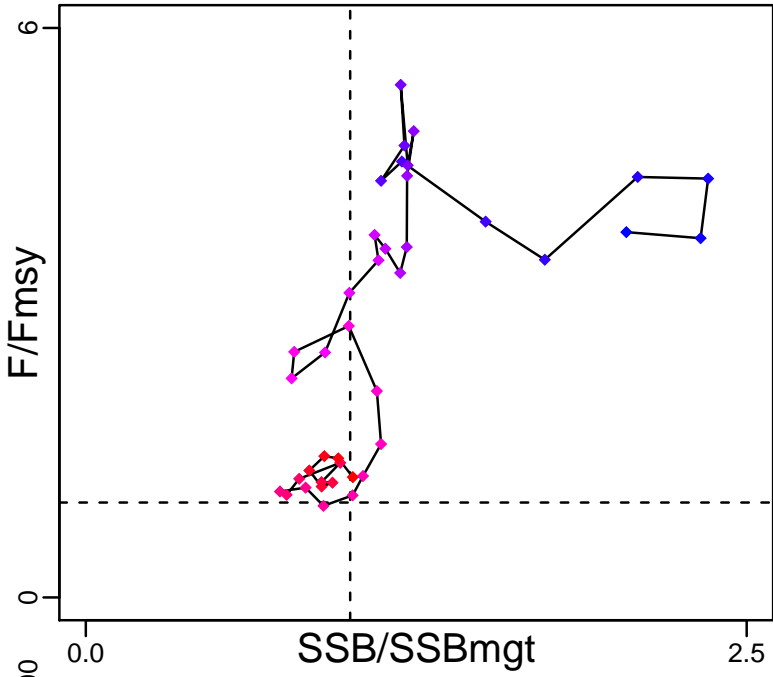
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITNS-VIId-1978-2018-ICESIMP2018
Area	IV and VIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2018, 2012, 2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2018	0.172
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2018	166,708
Fmgt	Fmgt-1/yr	2018	0.172
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	119,970
Flim	Flim-1/yr	2018	0.458
ERlim	-	-	-

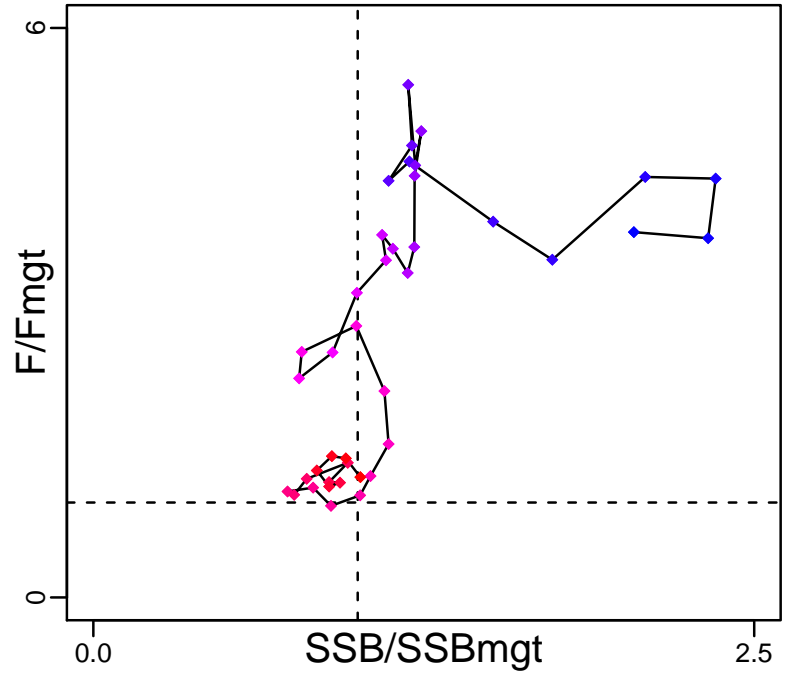
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	279,000	Both	-
SSB	SSB-MT	2018	181,000	Both	-
TN	-	-	-	-	-
R	R-E00	2017	3.82×10^9	-	1
F	F-1/yr	2018	0.218	-	-
ER	ER-calc-ratio	2018	0.104	-	-
TC	TC-MT	2018	29,300		
TL	TL-MT	2018	15,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	1.267		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	1.083		
F/Fmgt	F-1/yr/Fmgt-1/yr	2018	1.267		
ER/ERmgt	-	-	-		

Whiting NS-VIld [WHITNS-VIld]

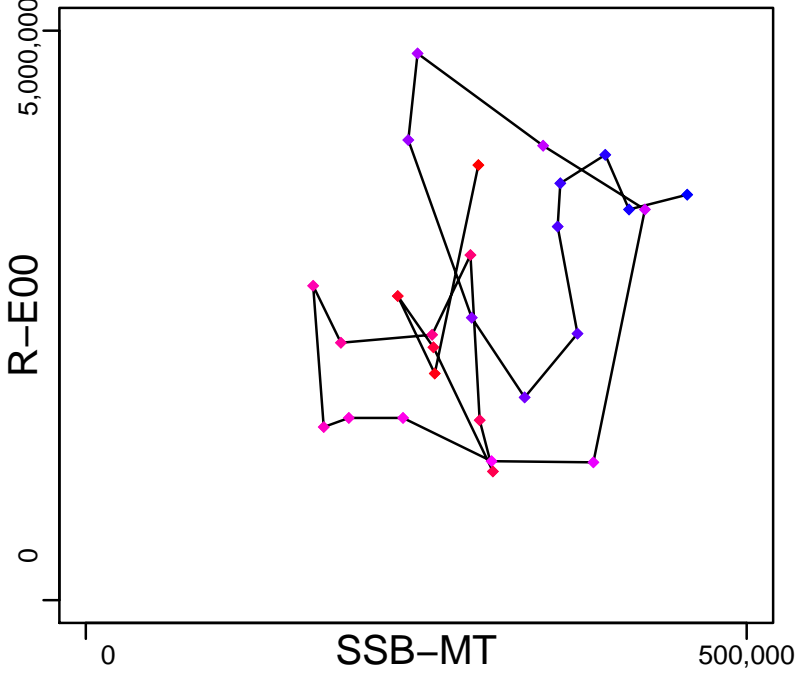
Kobe MSYpref (1978–2018–ICESIMP2018)



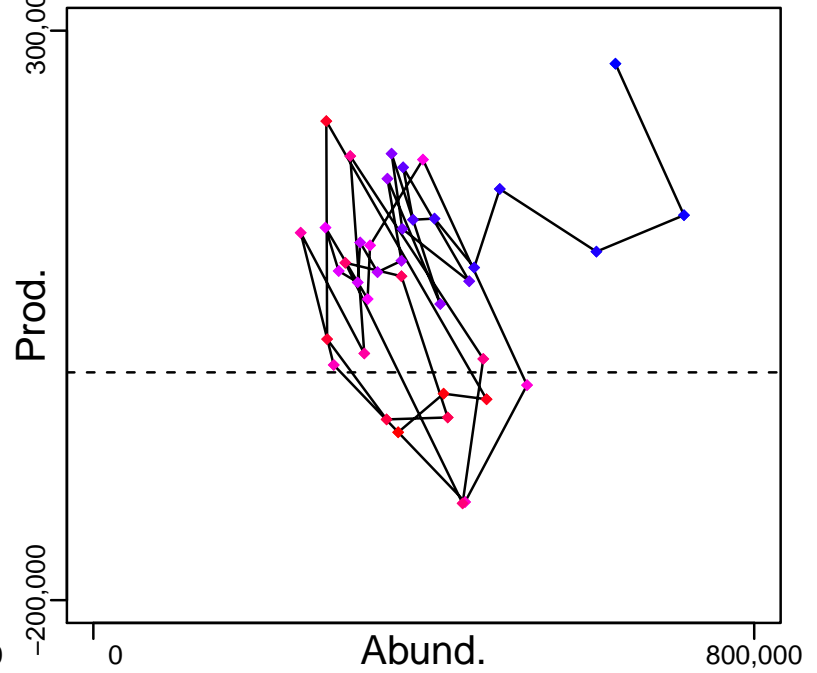
Kobe MGTpref (1978–2018–ICESIMP2018)



Spawner Recruit (1989–2017–ICESIMP2018)



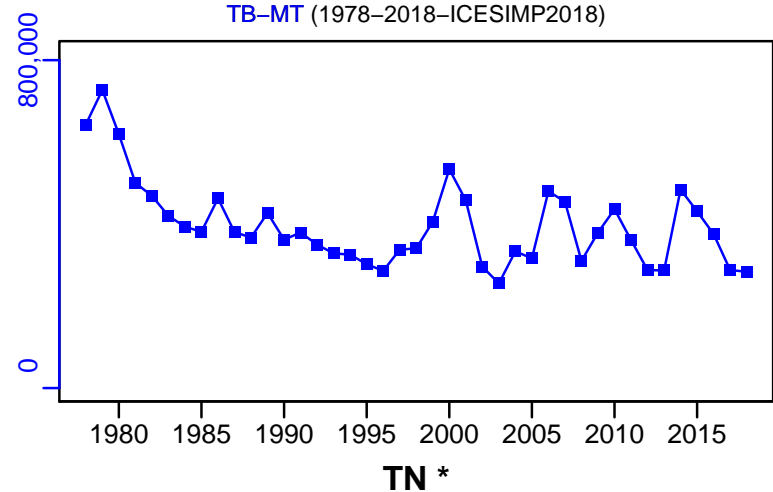
Production (1978–2018–ICESIMP2018)



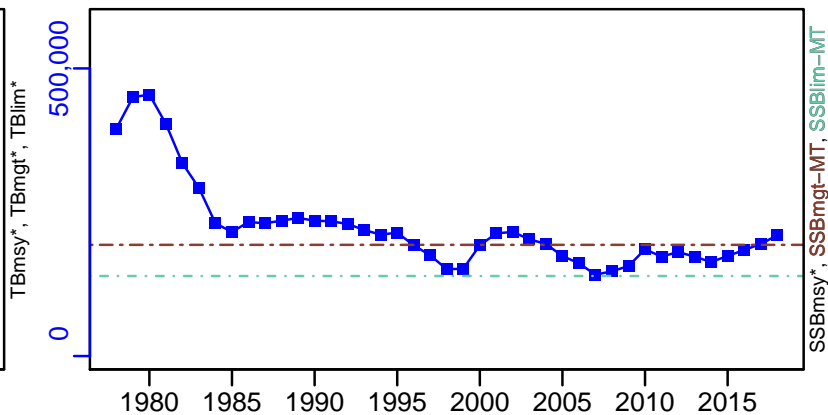
◆ Start Year ◆ End Year * No Data

Whiting NS-VIId [WHITNS-VIId]

TB-MT (1978–2018–ICESIMP2018)



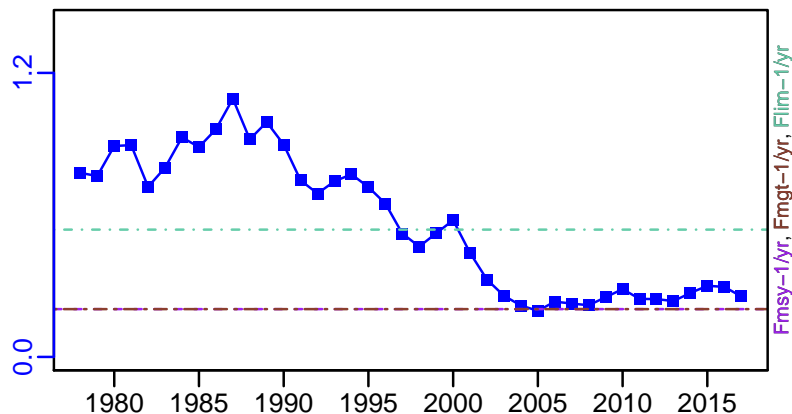
SSB-MT (1978–2018–ICESIMP2018)



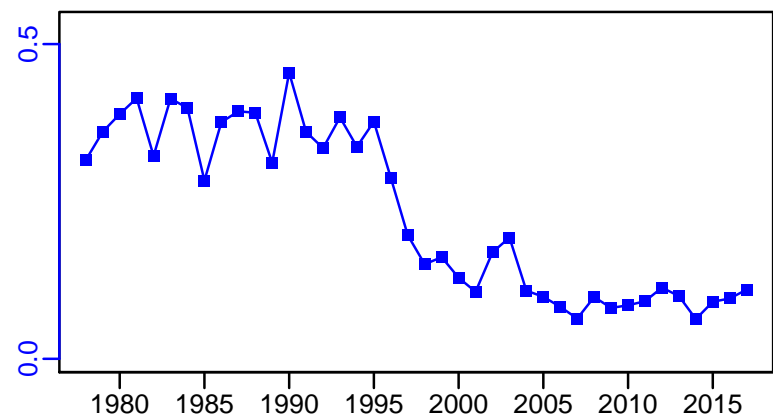
TN *



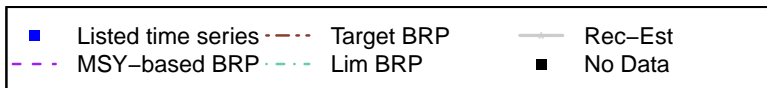
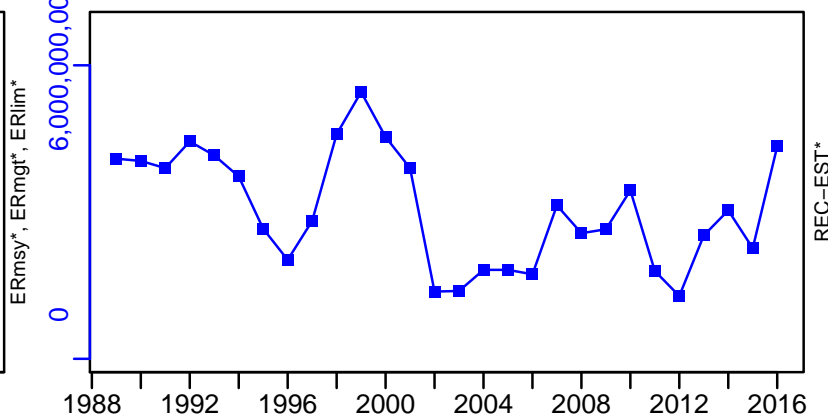
F-1/yr (1978–2018–ICESIMP2018)



ER-calc-ratio (1978–2018–ICESIMP2018)

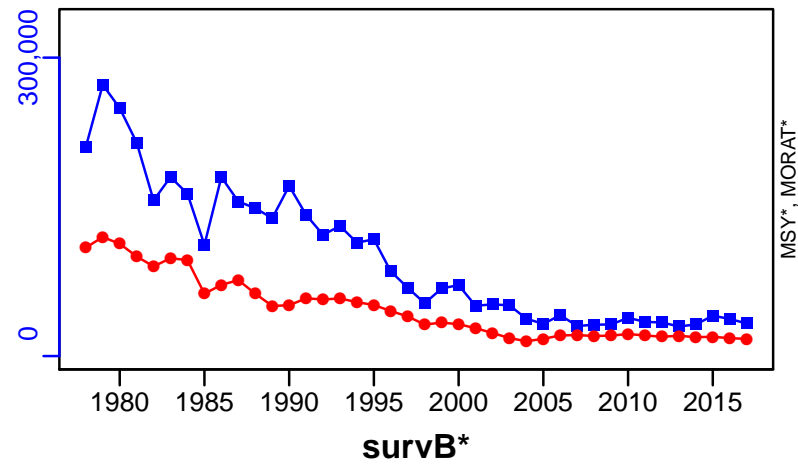


R-E00 (1989–2017–ICESIMP2018)

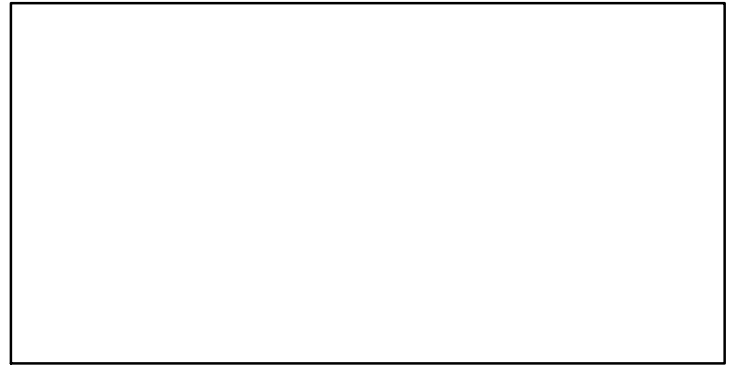


Whiting NS-VIId [WHITNS-VIId]

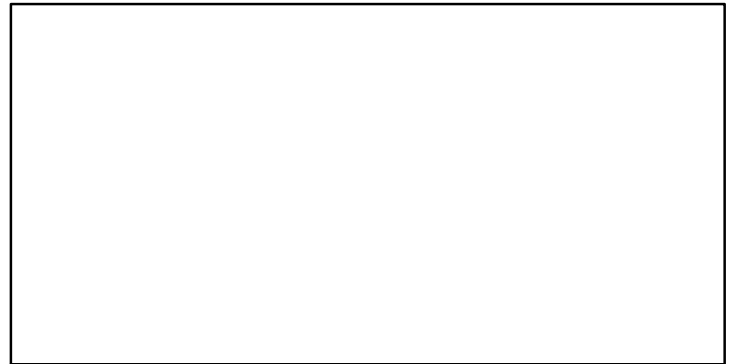
TC-MT, TL-MT, RecC* (1978–2018–ICESIMP2018)



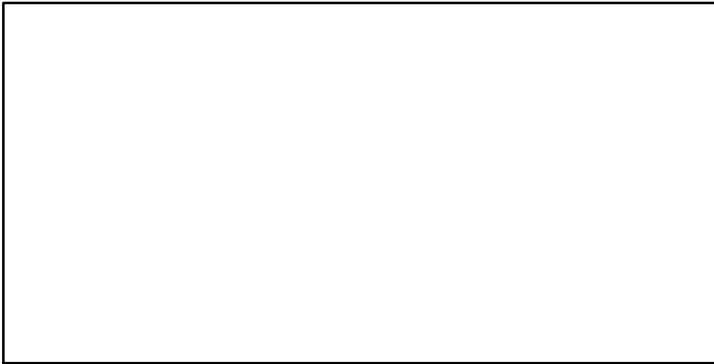
TAC*, Cpair*, Cadv*



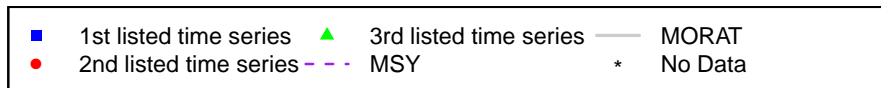
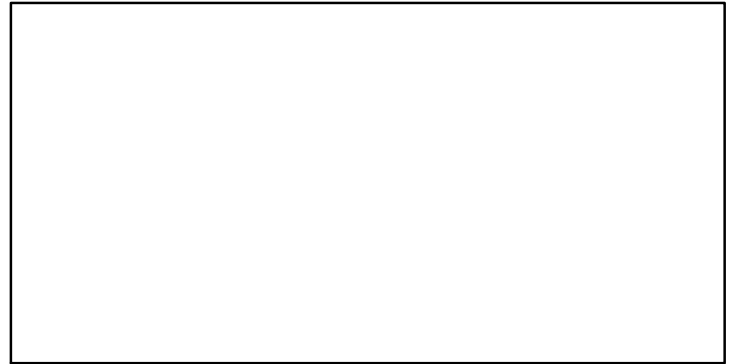
CPUE*



EFFORT*



CdivMSY*



Whiting ICES VIa [WHITVIa]

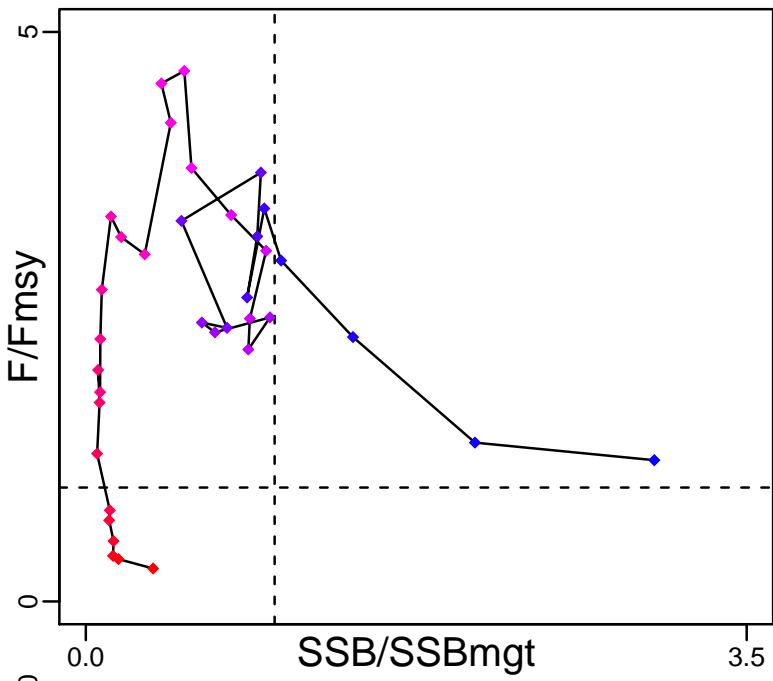
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIa-1980-2017-ICESIMP2018
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	44,632
Fmgt	Fmgt-1/yr	2017	0.18
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	31,880
Flim	Flim-1/yr	2017	0.27
ERlim	-	-	-

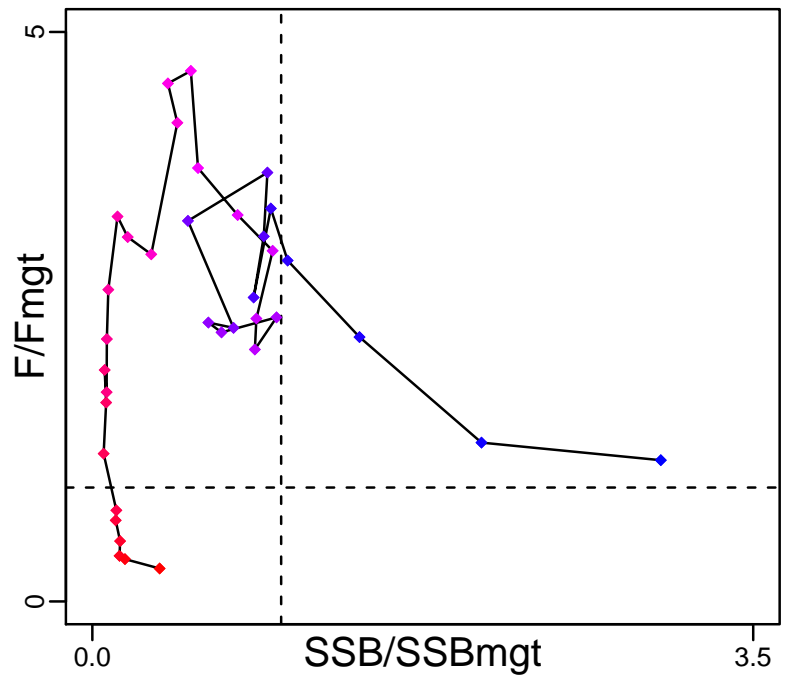
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	21,100	Both	-
SSB	SSB-MT	2017	17,000	Both	-
TN	-	-	-	-	-
R	R-E00	2017	1.39×10^8	-	1
F	F-1/yr	2017	0.052	-	2 to 4
ER	ER-calc-ratio	2016	0.059	-	-
TC	TC-MT	2016	1060		
TL	TL-MT	2016	227		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.289		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.381		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.289		
ER/ERmgt	-	-	-		

Whiting ICES Via [WHITVla]

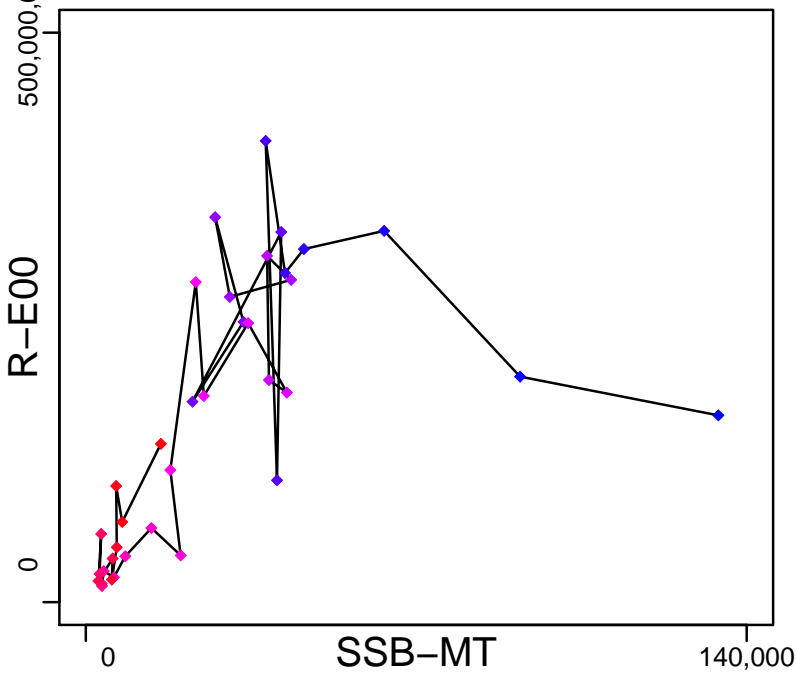
Kobe MSYpref (1980–2017–ICESIMP2018)



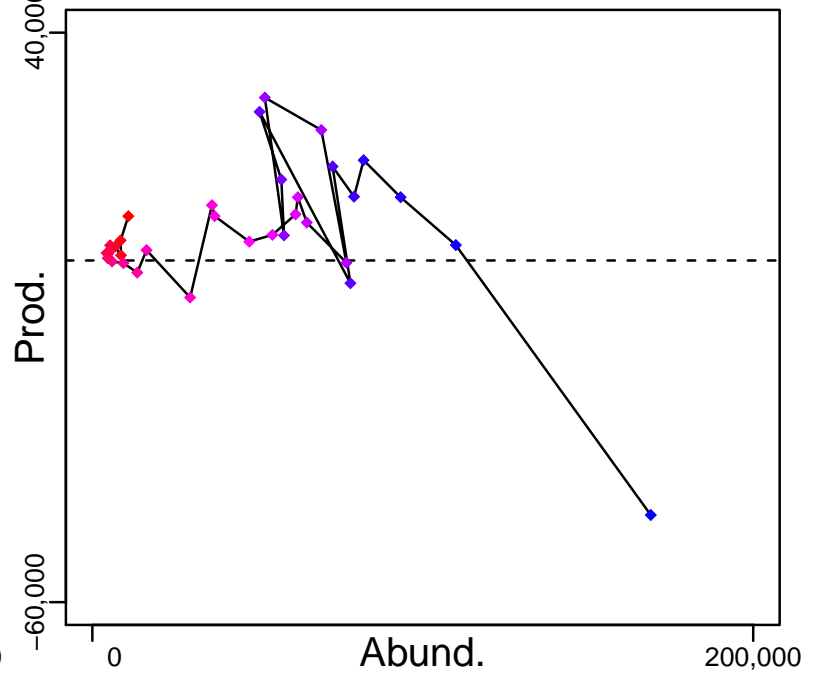
Kobe MGTpref (1980–2017–ICESIMP2018)



Spawner Recruit (1980–2017–ICESIMP2018)



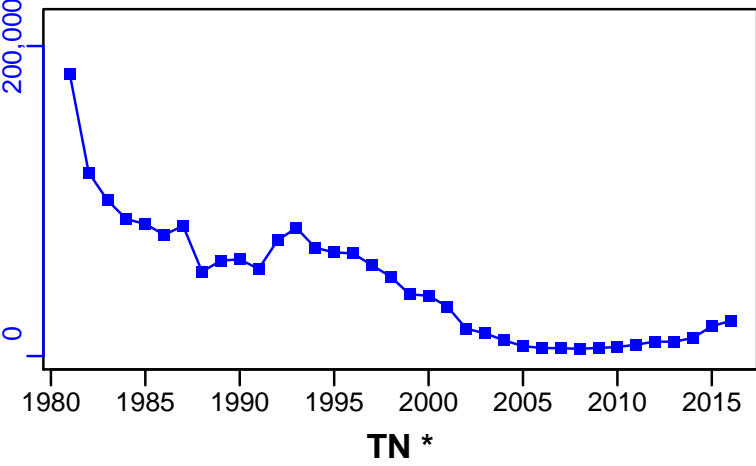
Production (1980–2016–ICESIMP2016)



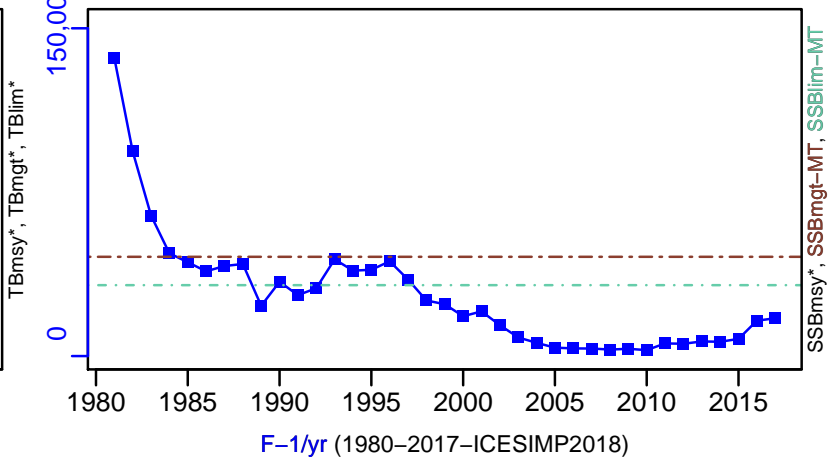
◆ Start Year ◆ End Year * No Data

Whiting ICES Via [WHITVla]

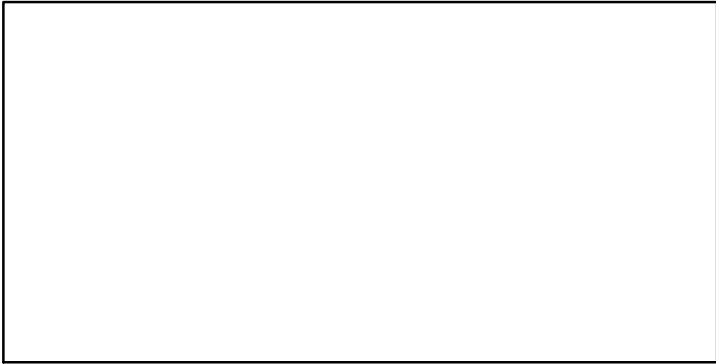
TB-MT (1980–2016–ICESIMP2016)



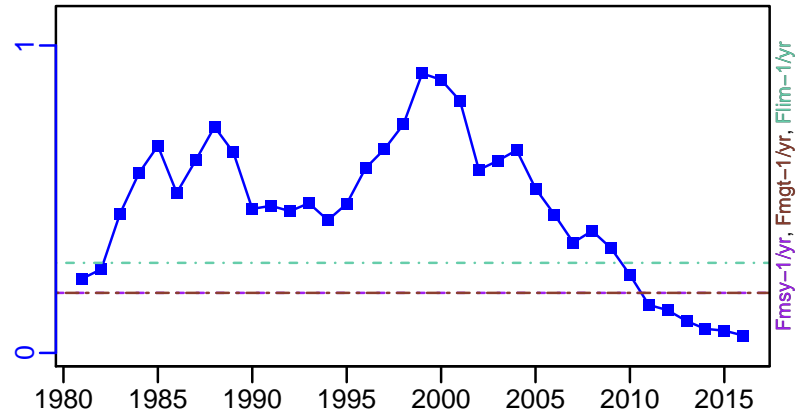
SSB-MT (1980–2017–ICESIMP2018)



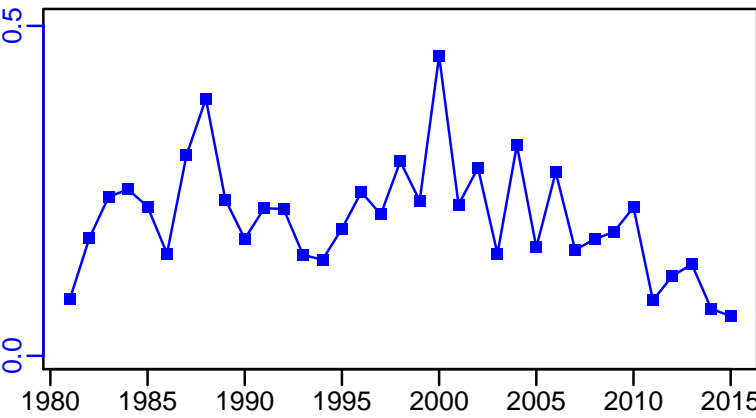
TN *



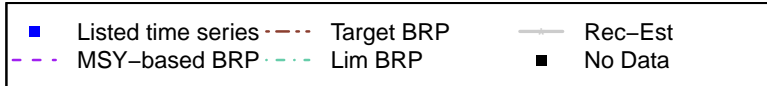
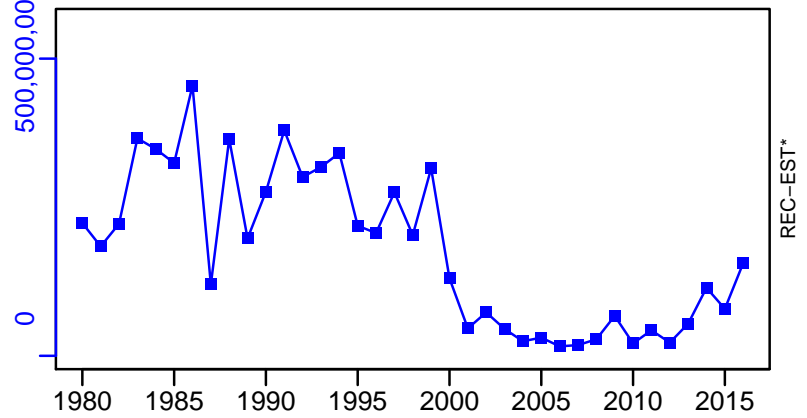
F-1/yr (1980–2017–ICESIMP2018)



ER-calc-ratio (1980–2016–ICESIMP2016)

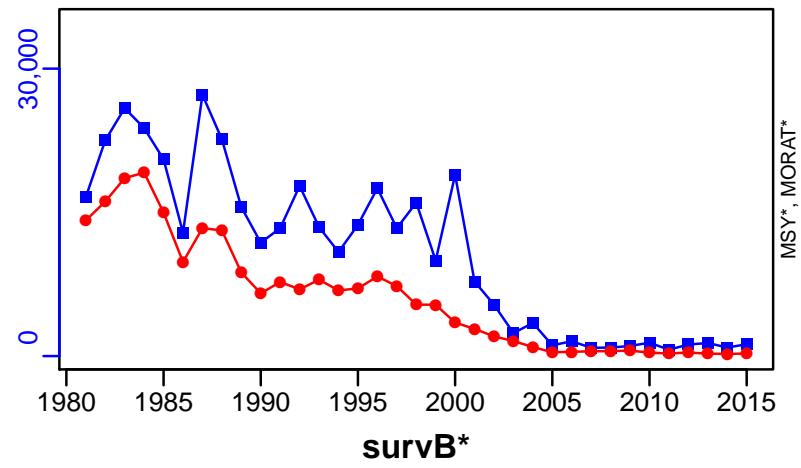


R-E00 (1980–2017–ICESIMP2018)

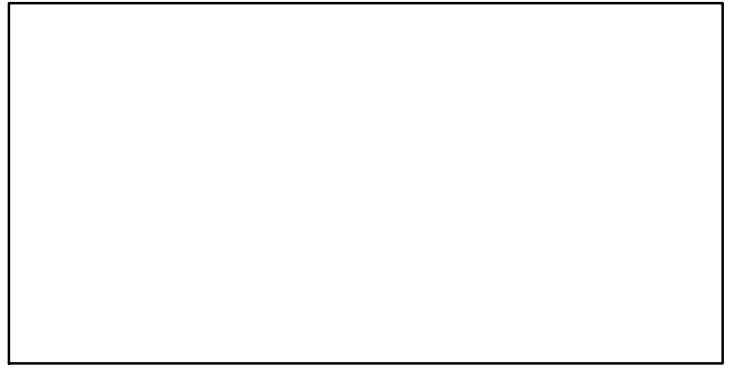


Whiting ICES Via [WHITVla]

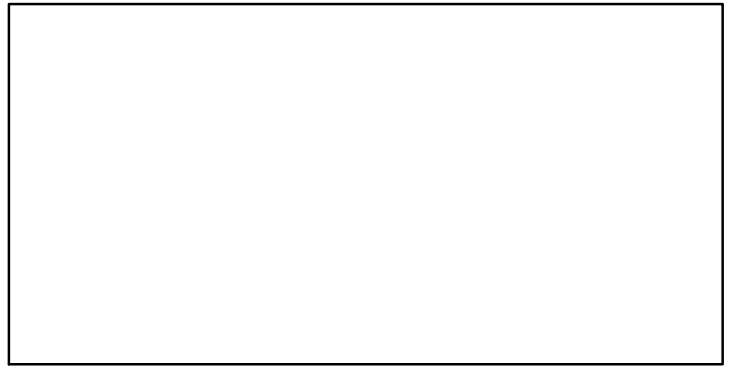
TC-MT, TL-MT, RecC* (1980-2016-ICESIMP2016)



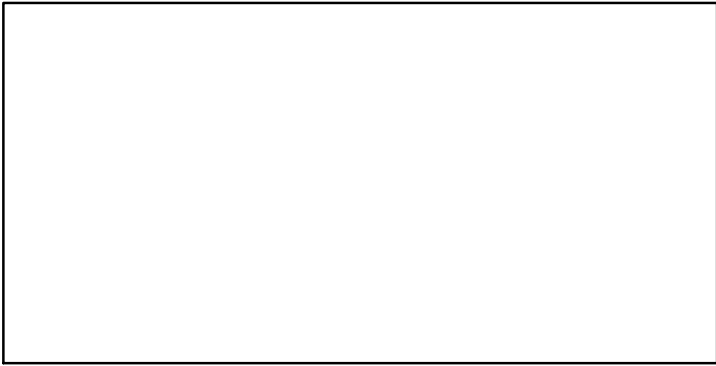
TAC*, Cpair*, Cadv*



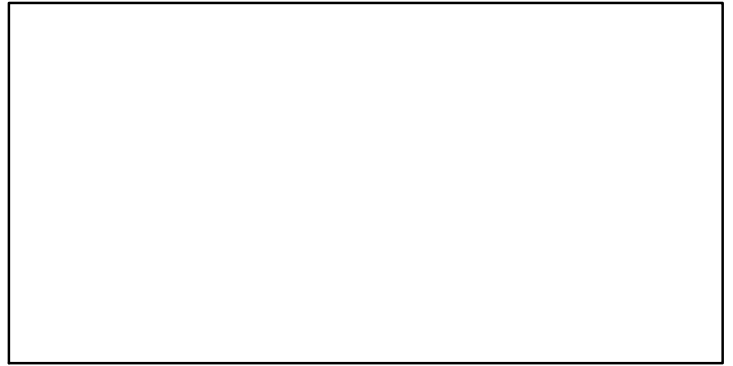
CPUE*



EFFORT*



CdivMSY*



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

Whiting Rockall Bank [WHITVib]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVib-1961-2014-ICESIMP2018
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	28		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

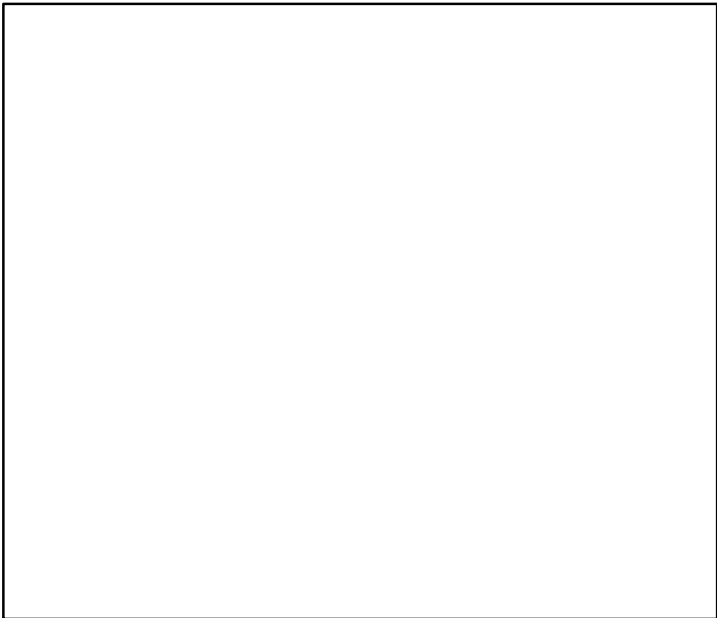
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Whiting Rockall Bank [WHITVlb]

TB*



SSB*



TN *



F*



ER*

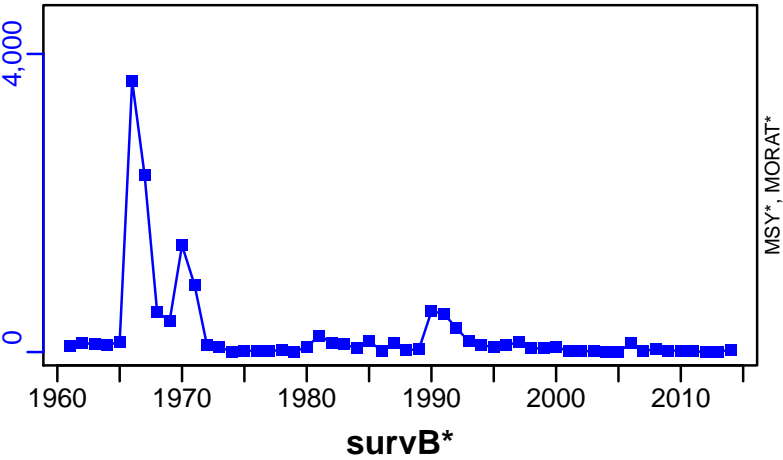


Recruits*



Whiting Rockall Bank [WHITV1b]

TL-MT, TC*, RecC* (1961-2014-ICESIMP2018)



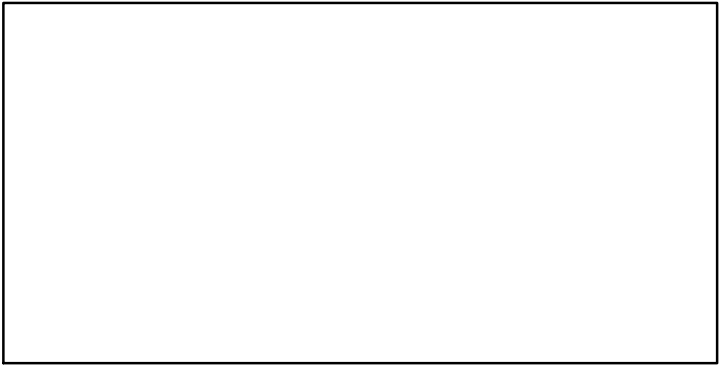
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Whiting Irish Sea [WHITVIIa]

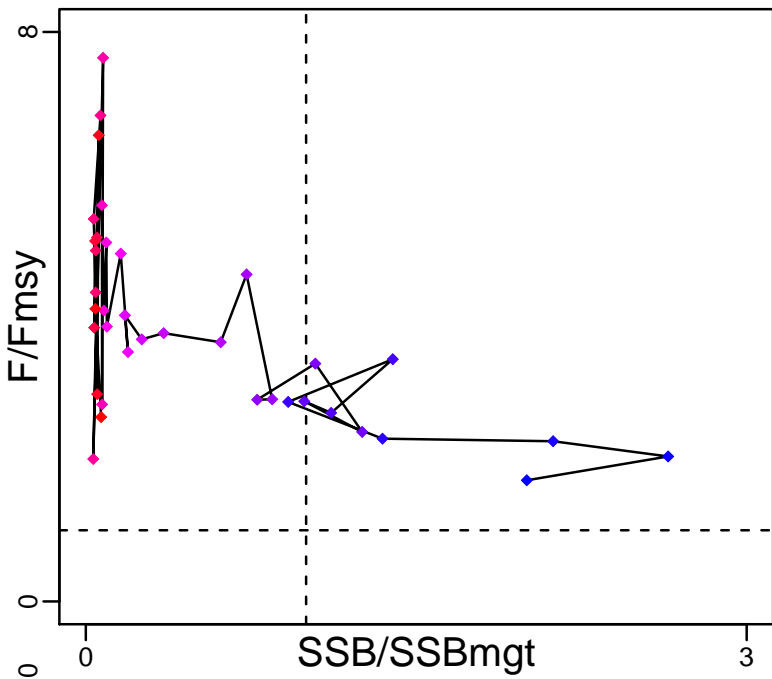
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIIa-1980-2017-ICESIMP2018
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.219
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	16,300
Fmgt	Fmgt-1/yr	2017	0.219
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	10,000
Flim	Flim-1/yr	2017	0.371
ERlim	-	-	-

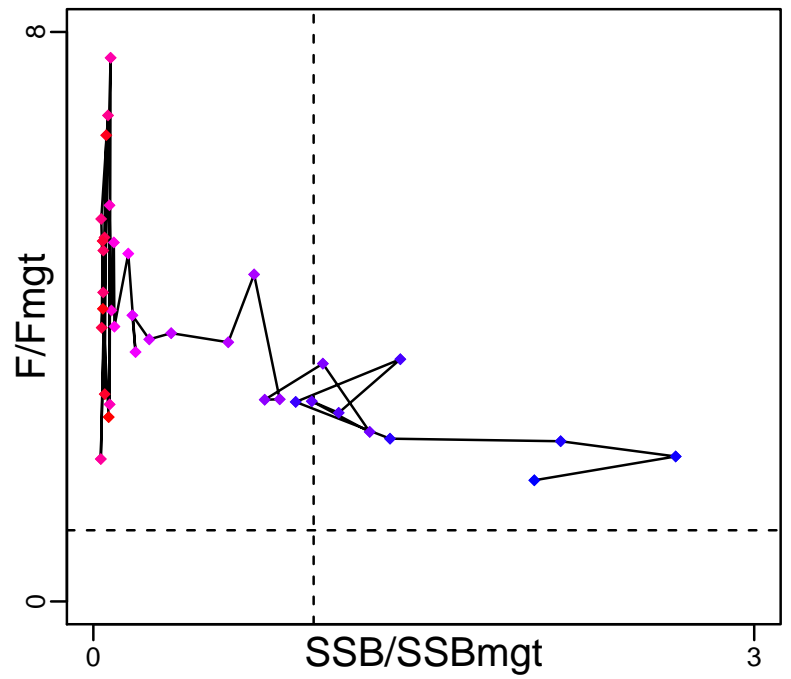
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	2240	Both	-
SSB	SSB-MT	2017	1430	Both	-
TN	-	-	-	-	-
R	R-E00	2017	1.17×10^8	-	0
F	F-1/yr	2017	0.567	-	1 to 3
ER	ER-calc-ratio	2017	0.348	-	-
TC	TC-MT	2017	780		
TL	TL-MT	2017	15		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	2.59		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.087		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	2.59		
ER/ERmgt	-	-	-		

Whiting Irish Sea [WHITVila]

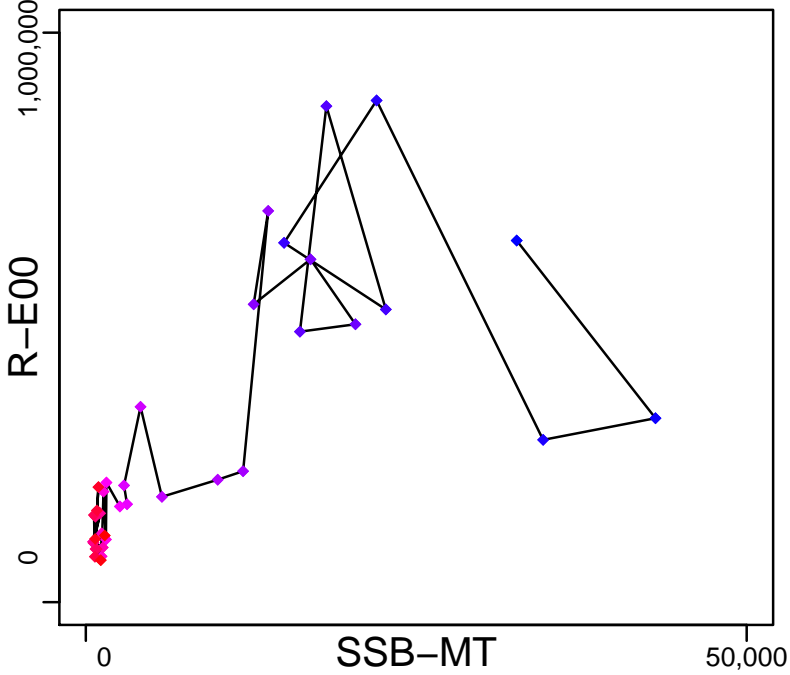
Kobe MSYpref (1980–2017–ICESIMP2018)



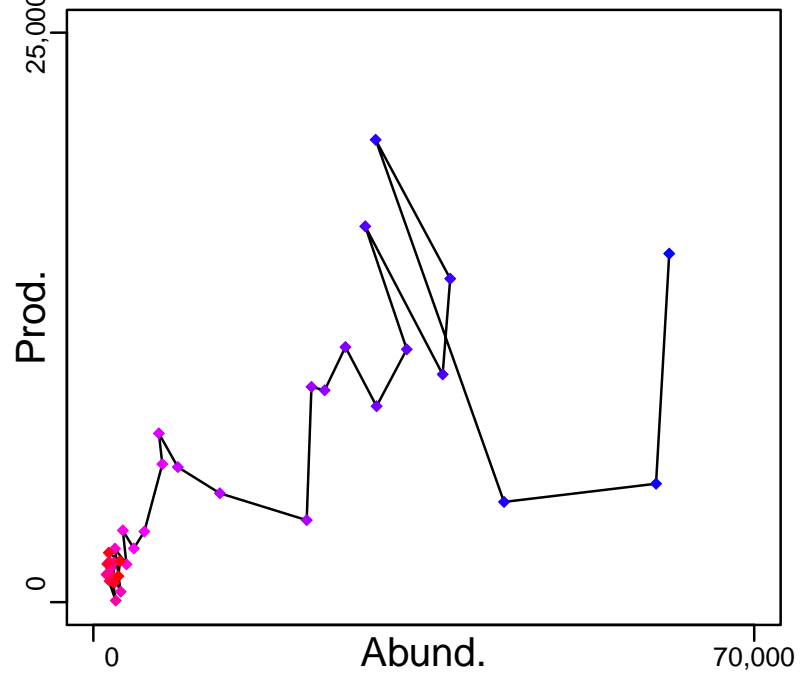
Kobe MGTpref (1980–2017–ICESIMP2018)



Spawner Recruit (1980–2017–ICESIMP2018)



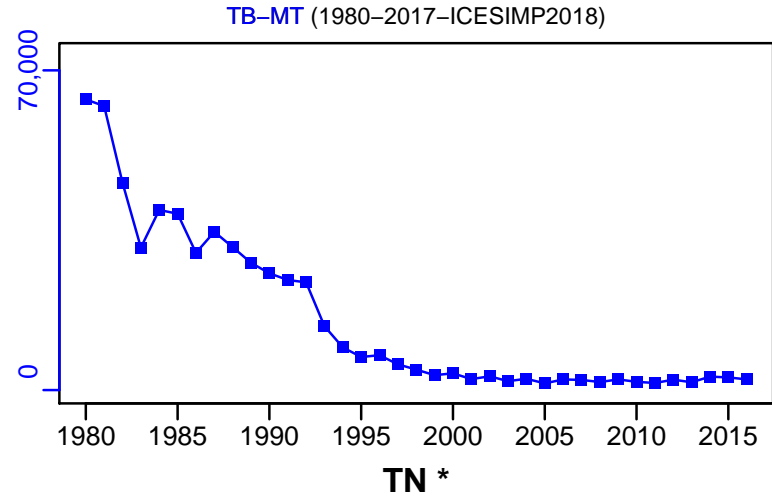
Production (1980–2017–ICESIMP2018)



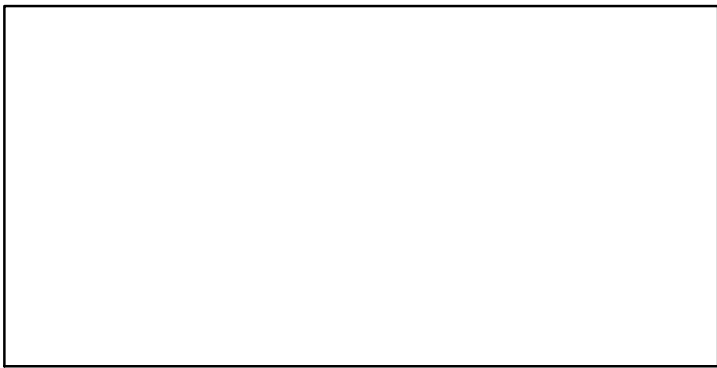
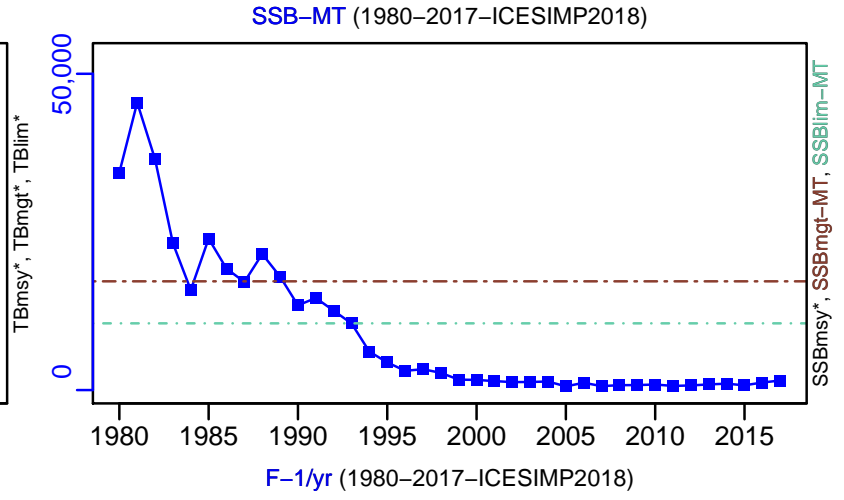
◆ Start Year ◆ End Year * No Data

Whiting Irish Sea [WHITVIIa]

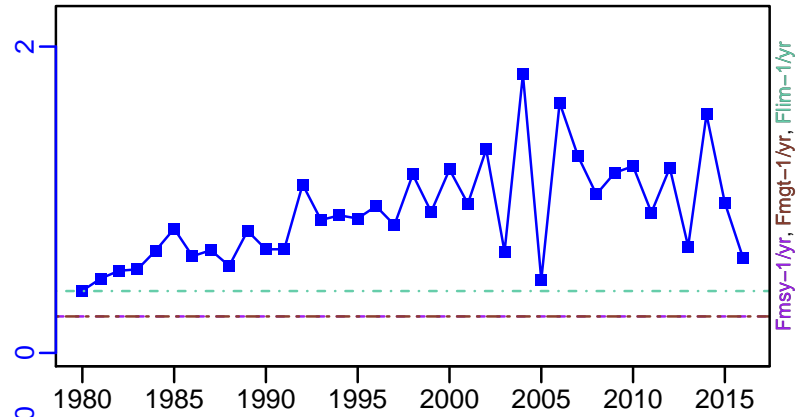
TB-MT (1980–2017–ICESIMP2018)



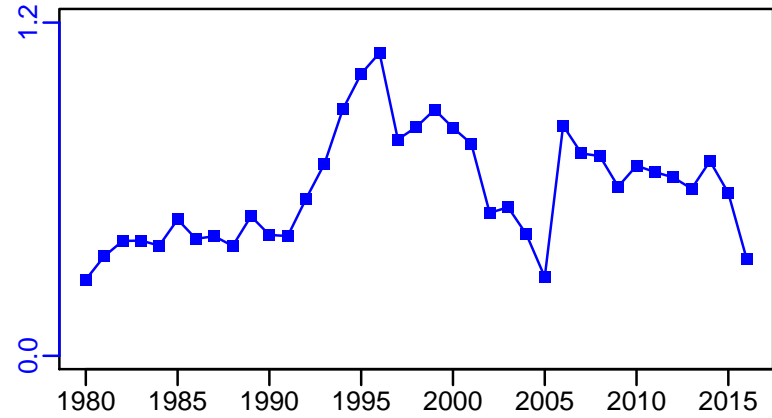
SSB-MT (1980–2017–ICESIMP2018)



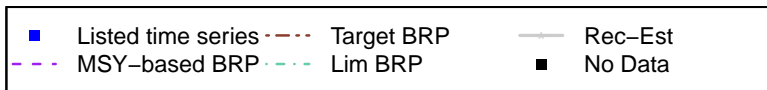
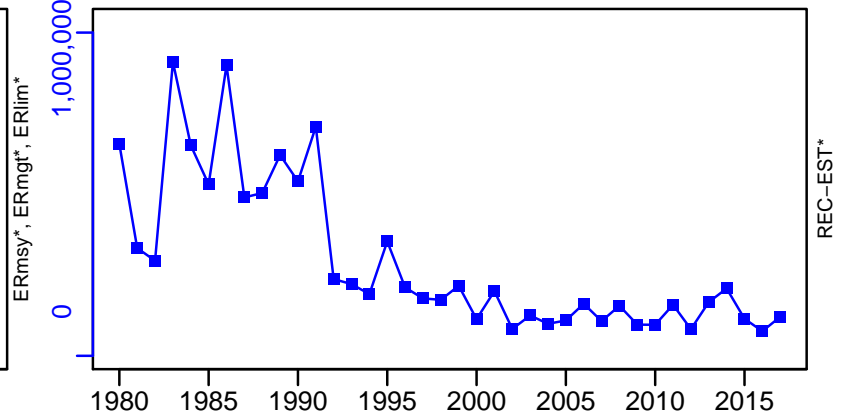
F-1/yr (1980–2017–ICESIMP2018)



ER-calc-ratio (1980–2017–ICESIMP2018)

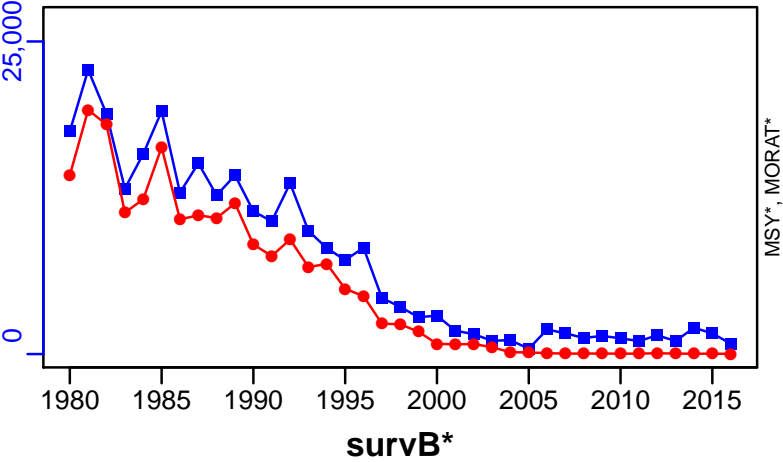


R-E00 (1980–2017–ICESIMP2018)

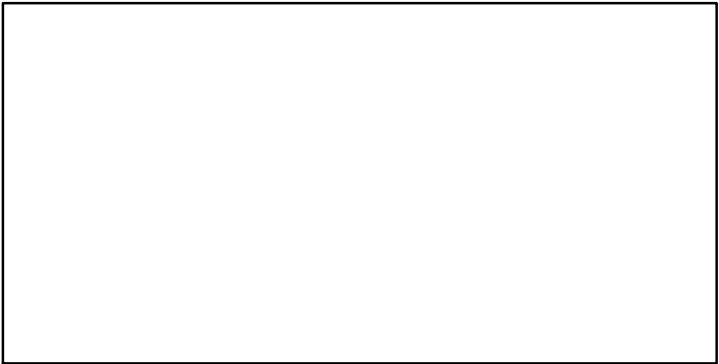


Whiting Irish Sea [WHITVIIa]

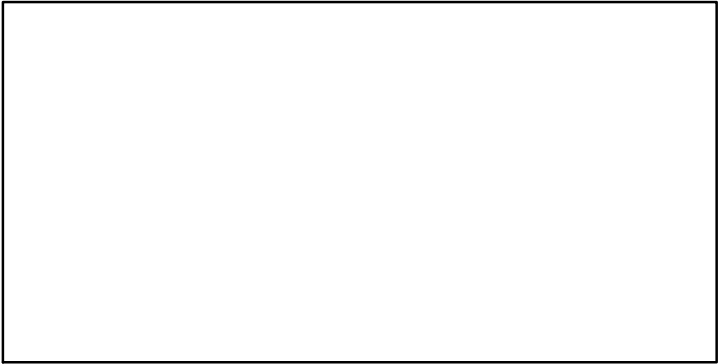
TC-MT, TL-MT, RecC* (1980–2017–ICESIMP2018)



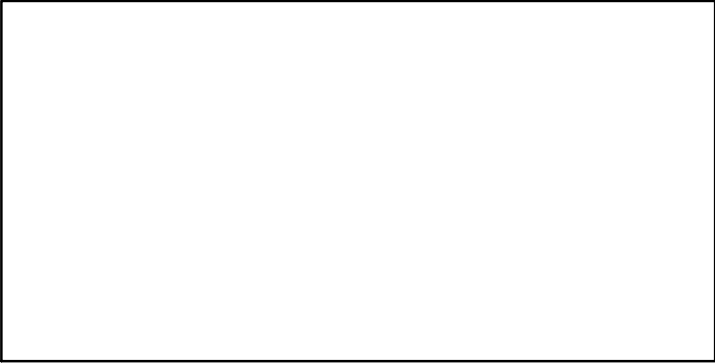
TAC*, Cpair*, Cadv*



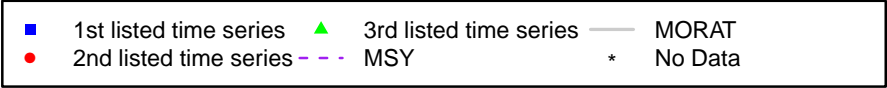
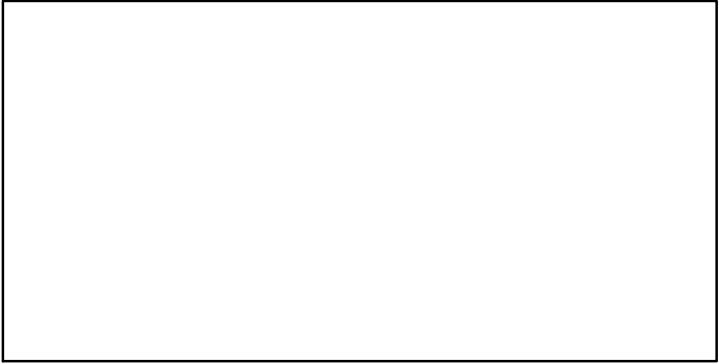
CPUE*



EFFORT*



CdivMSY*



Whiting ICES Vlle-k [WHITVllek]

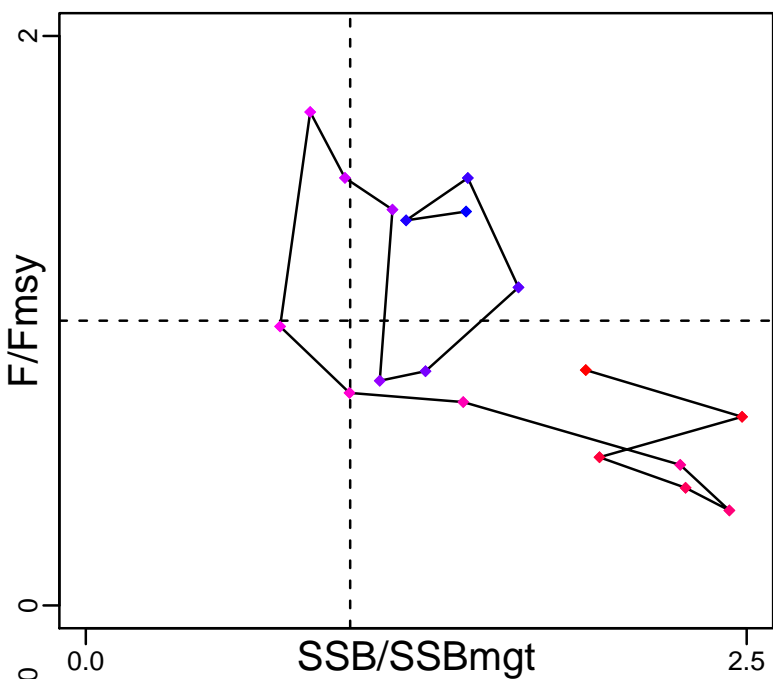
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVllek-1999-2017-ICESIMP2018
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2017, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.52
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	35,000
Fmgt	Fmgt-1/yr	2017	0.52
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	21,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	25,000
Flim	Flim-1/yr	2017	1.12
ERlim	-	-	-

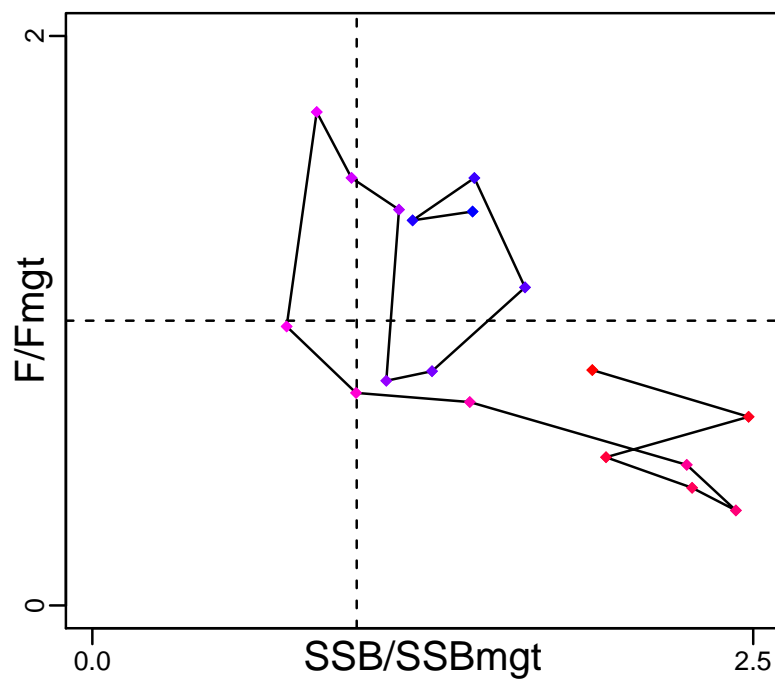
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	95,300	Both	-
SSB	SSB-MT	2017	58,300	Both	-
TN	-	-	-	-	-
R	R-E00	2017	1.01×10^9	-	0
F	F-1/yr	2017	0.43	-	2 to 5
ER	ER-calc-ratio	2016	0.202	-	-
TC	TC-MT	2017	22,500		
TL	TL-MT	2017	15,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.827		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.665		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.827		
ER/ERmgt	-	-	-		

Whiting ICES Vlle-k [WHITVllek]

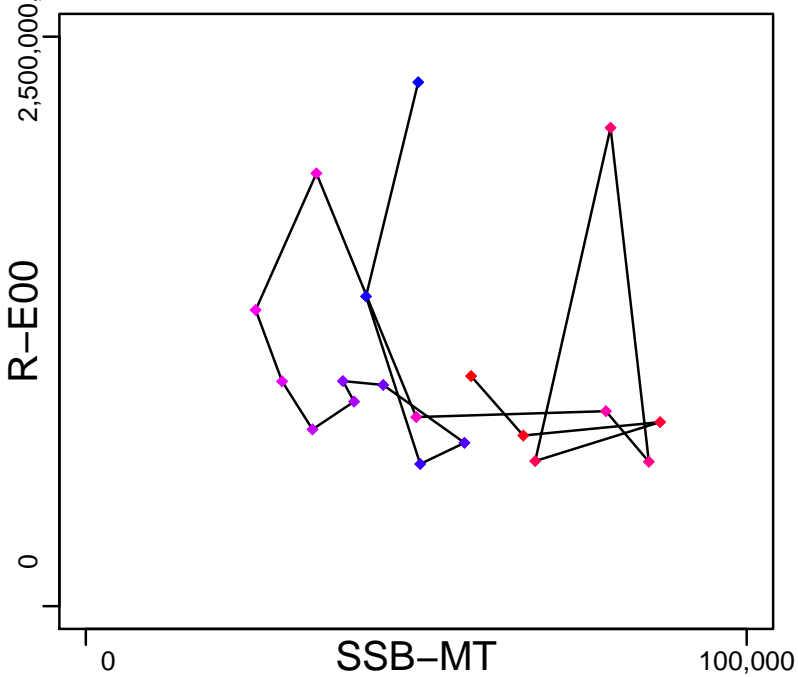
Kobe MSYpref (1999–2017–ICESIMP2018)



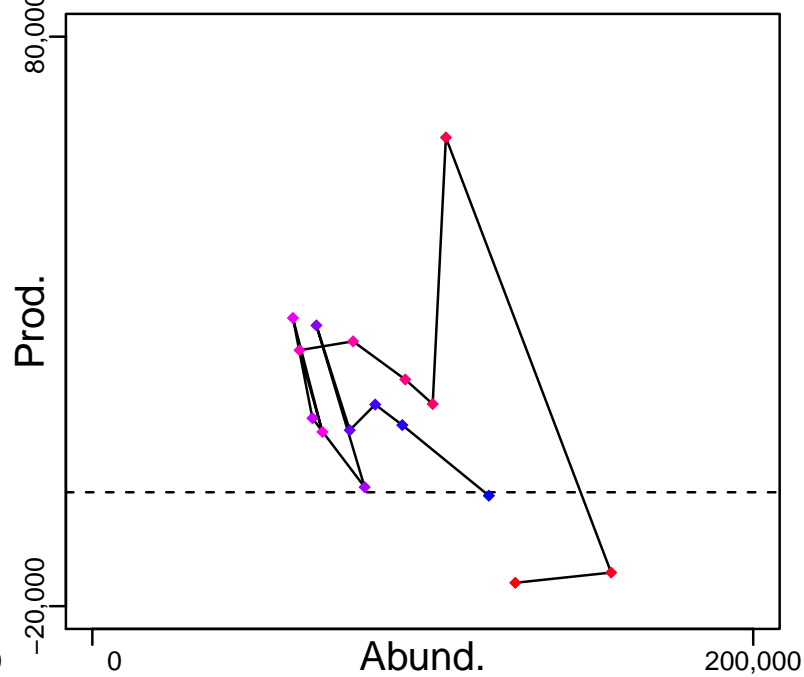
Kobe MGTpref (1999–2017–ICESIMP2018)



Spawner Recruit (1999–2017–ICESIMP2018)



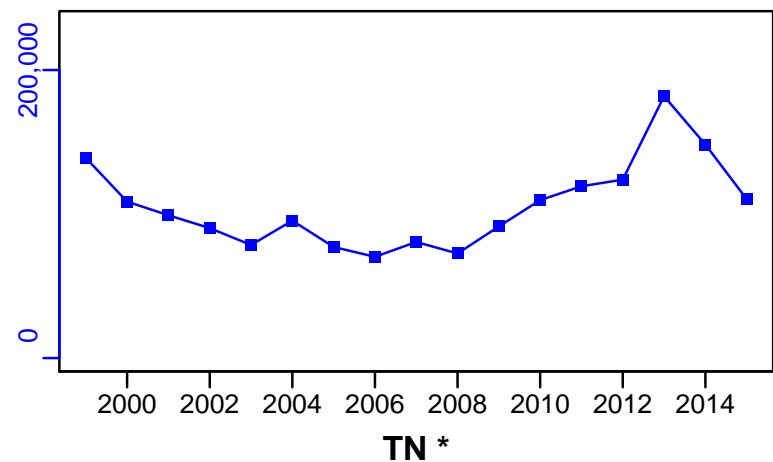
Production (1999–2016–ICESIMP2016)



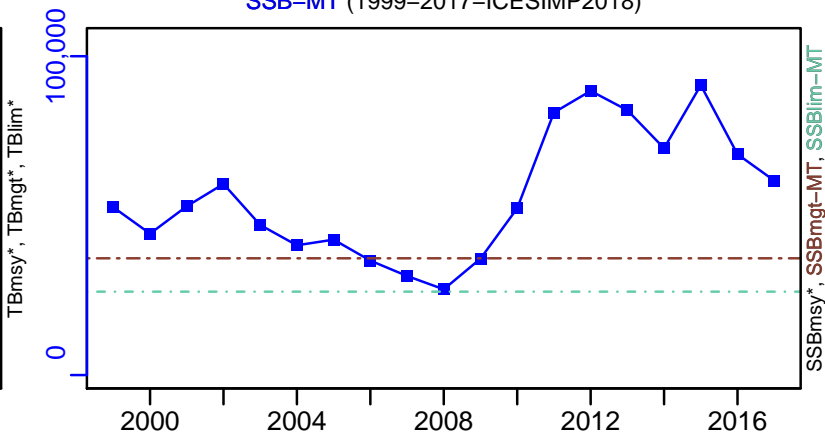
◆ Start Year ◆ End Year * No Data

Whiting ICES Vlle-k [WHITVllek]

TB-MT (1999–2016–ICESIMP2016)



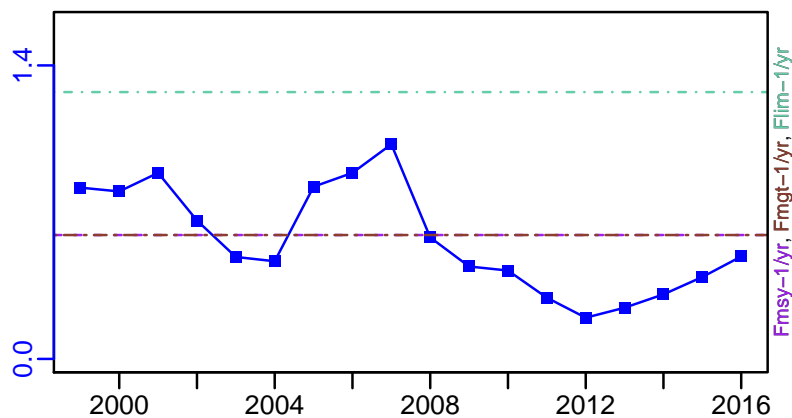
SSB-MT (1999–2017–ICESIMP2018)



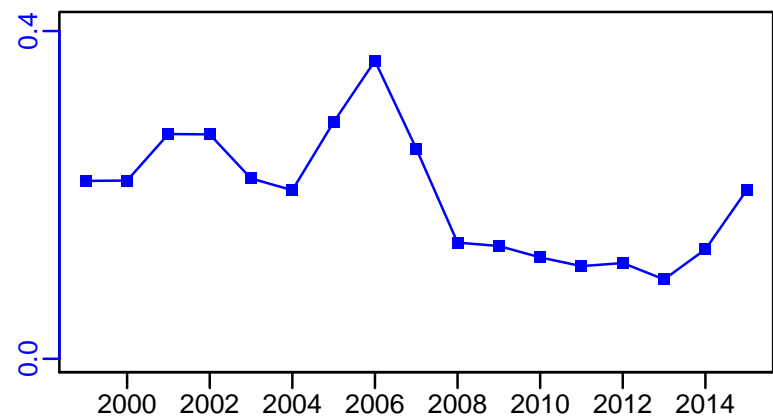
TN *



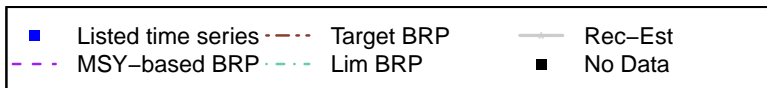
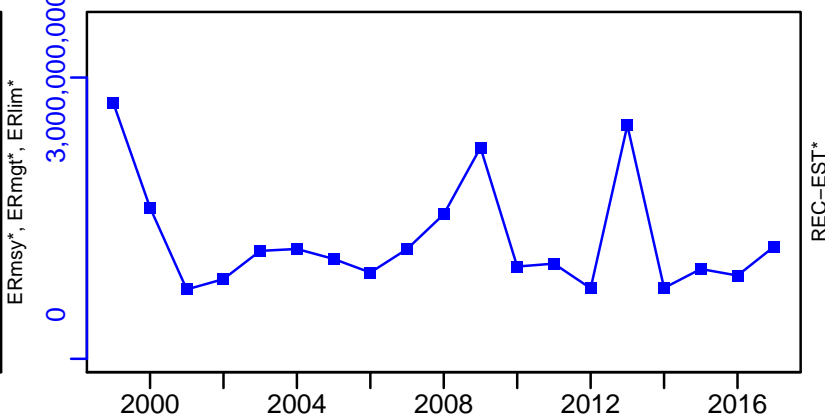
F-1/yr (1999–2017–ICESIMP2018)



ER-calc-ratio (1999–2016–ICESIMP2016)

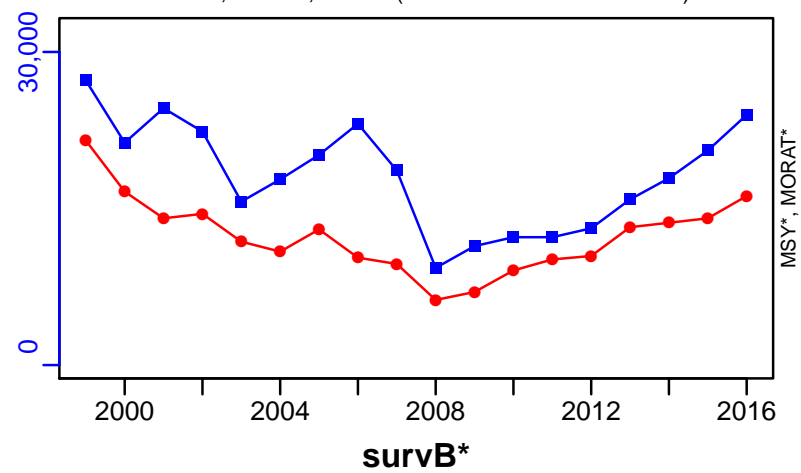


R-E00 (1999–2017–ICESIMP2018)

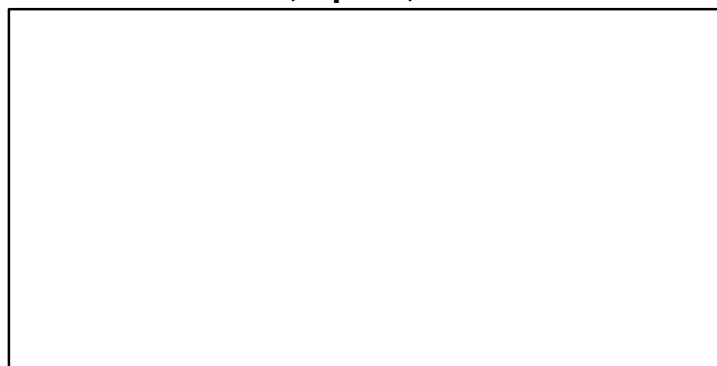


Whiting ICES Vlle-k [WHITVllek]

TC-MT, TL-MT, RecC* (1999–2017–ICESIMP2018)



TAC*, Cpair*, Cadv*



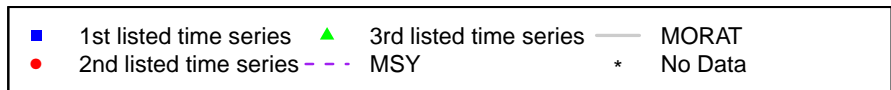
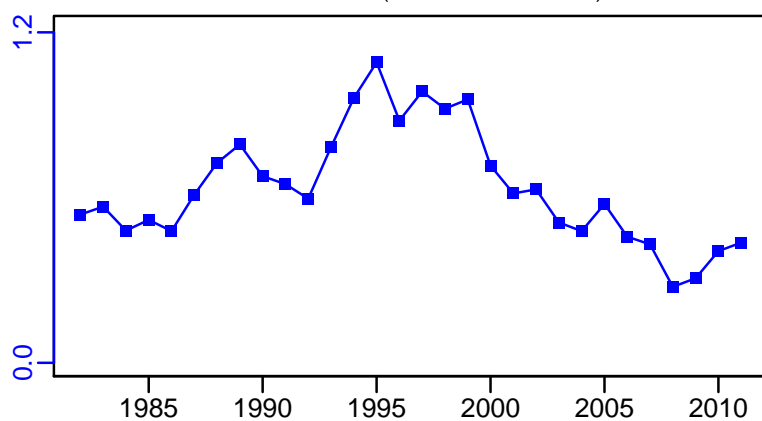
CPUE*



EFFORT*



CdivMSY-ratio (1981–2012–CHING)



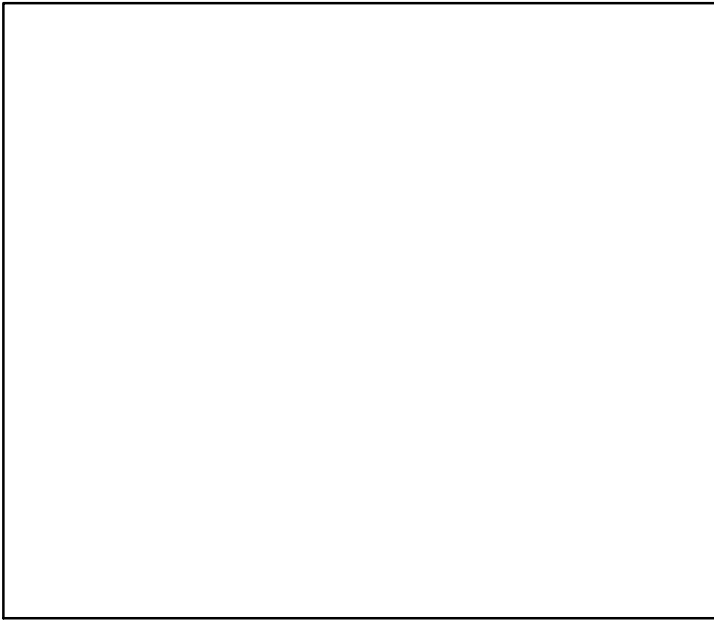
Whiting VIII and IXa [WHITVIII-IXa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGBIE-WHITVIII-IXa-1994-2016-ICESIMP2018
Area	VIII and IXa
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

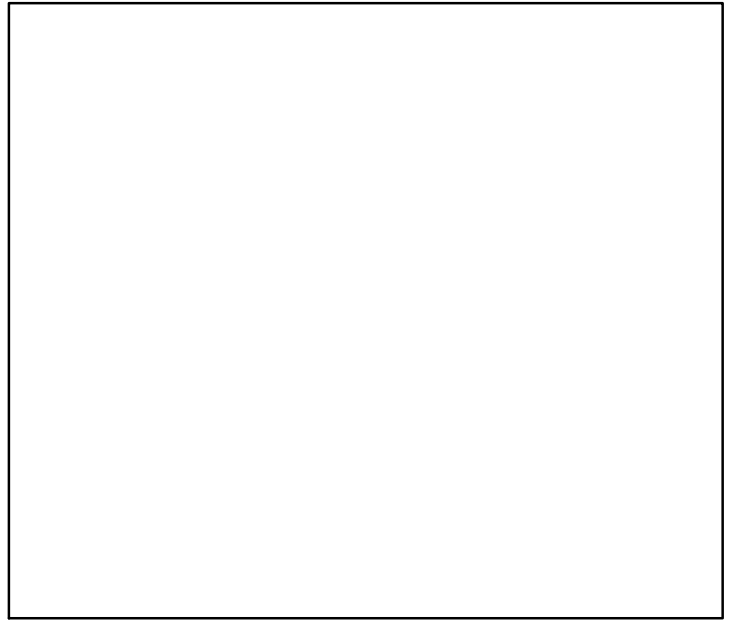
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

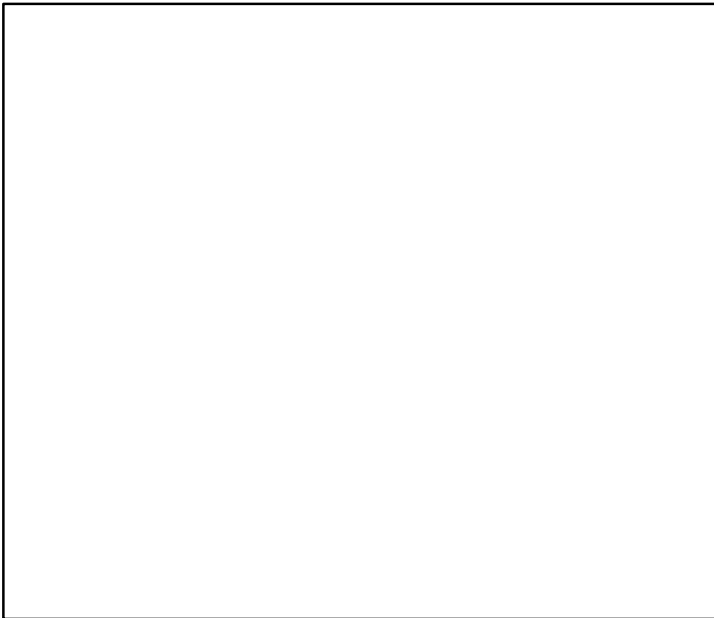
Kobe MSY*



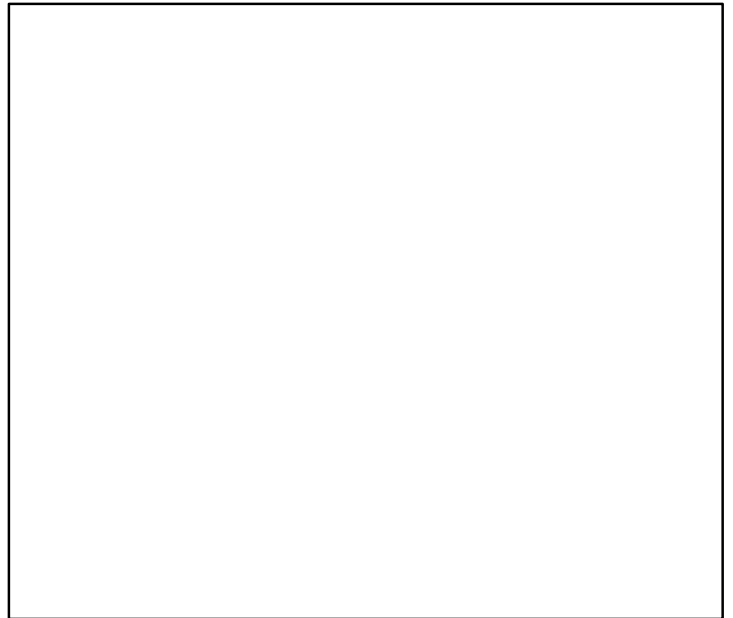
Kobe MGT*



Spawner Recruit*



Production*



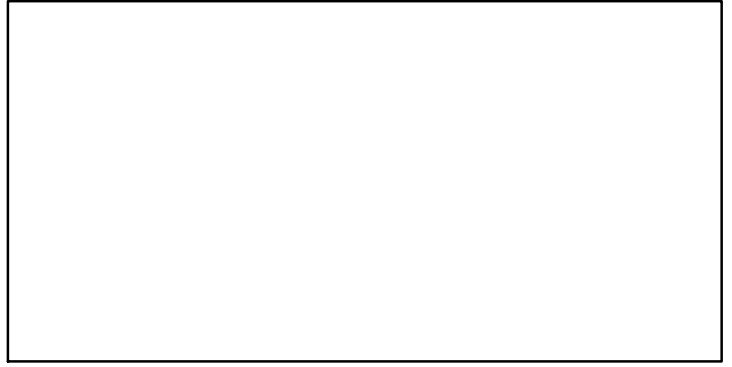
◆ Start Year ◆ End Year * No Data

Whiting VIII and IXa [WHITVIII-IXa]

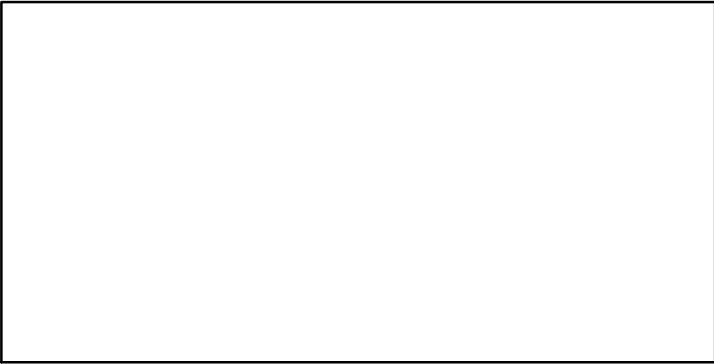
TB*



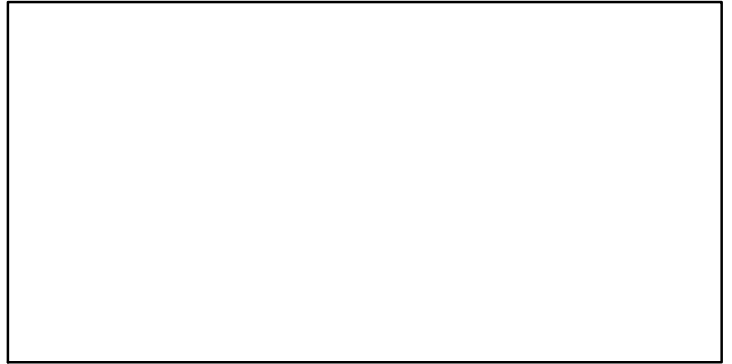
SSB*



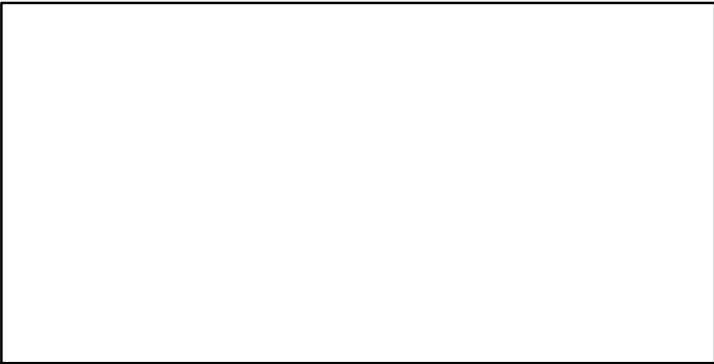
TN *



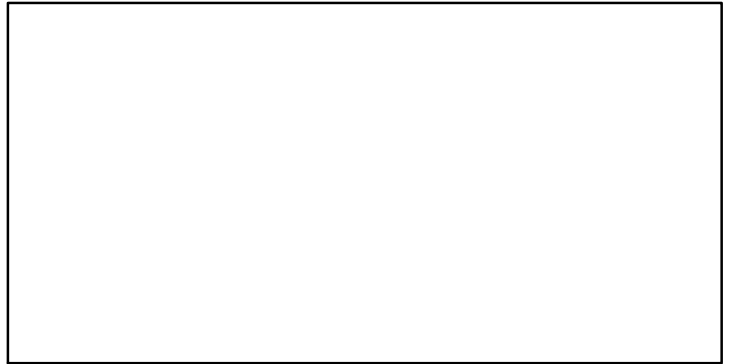
F*



ER*



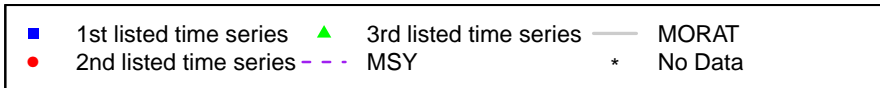
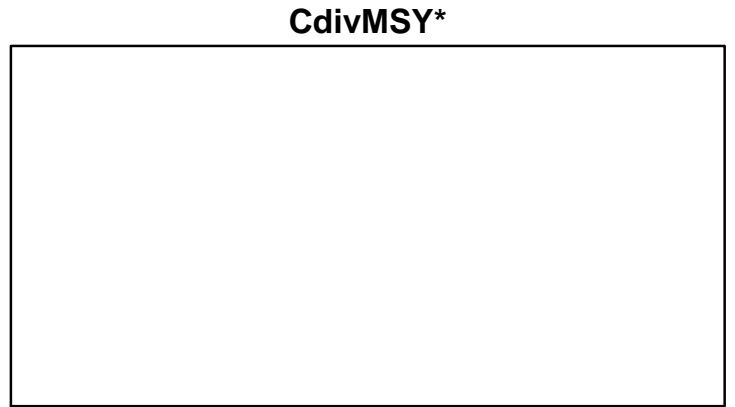
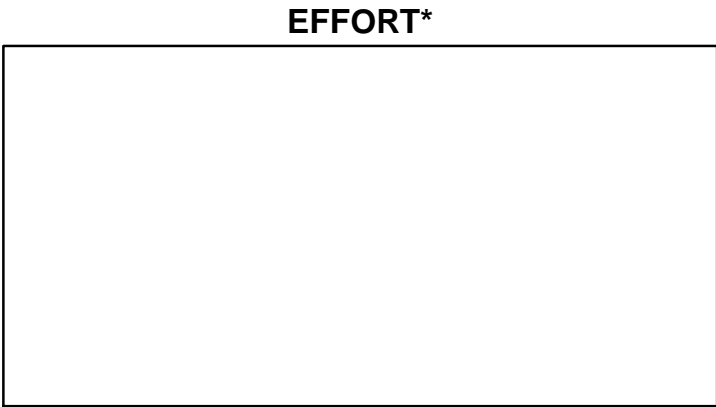
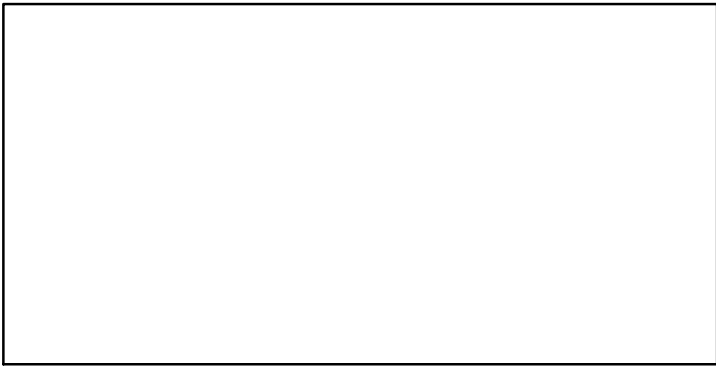
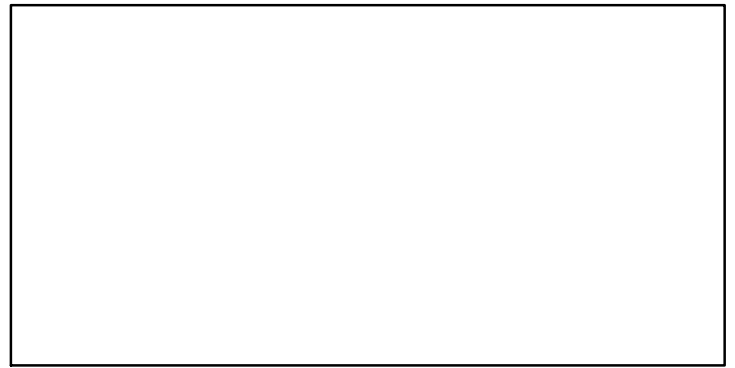
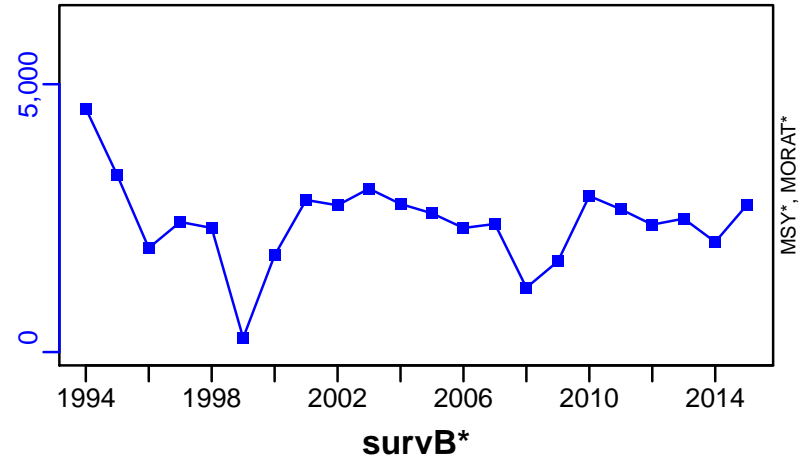
Recruits*



Whiting VIII and IXa [WHITVIII-IXa]

TL-MT, TC*, RecC* (1994-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



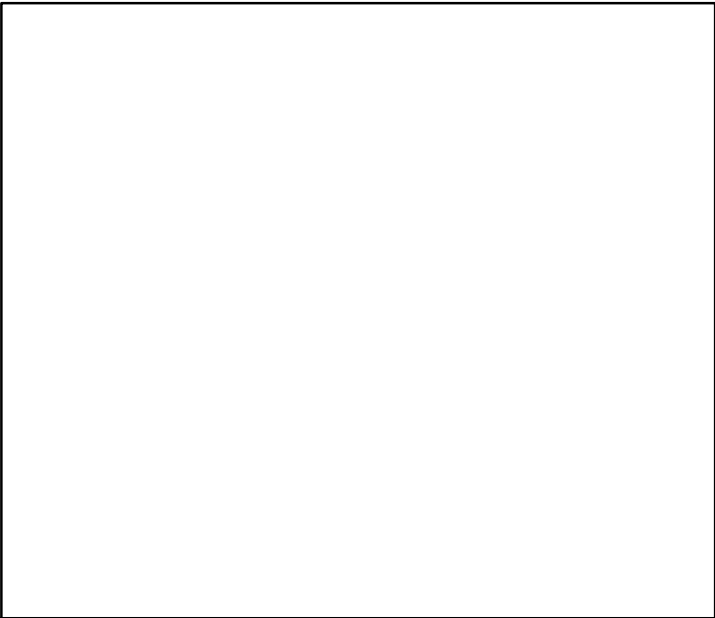
Witch flounder IIIa, VIId and North Sea [WITFLOUNIIIa-IV-VIId]

Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	WGNSSK-WITFLOUNIIIa-IV-VIId-1975-2016-ICESIMP2018
Area	IIIa, VIId and 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	2015, 2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	0.189	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2740		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

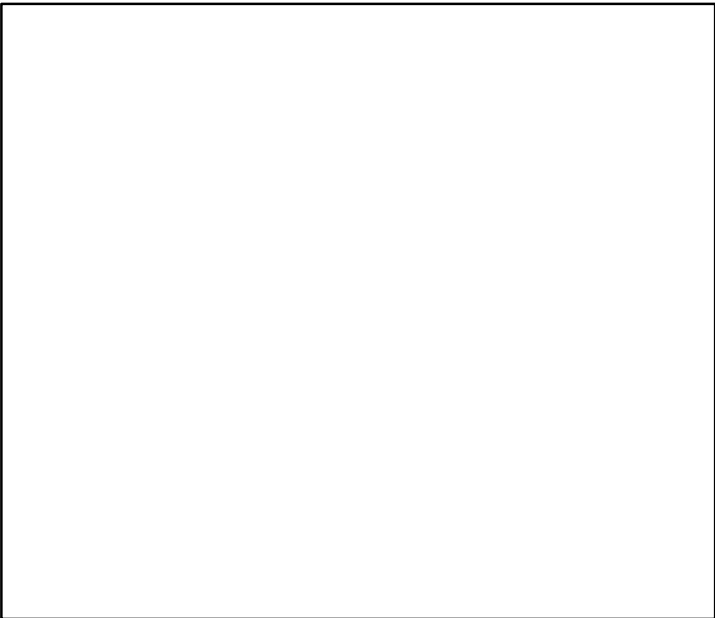
Kobe MSY*



Kobe MGT*



Spawner Recruit*



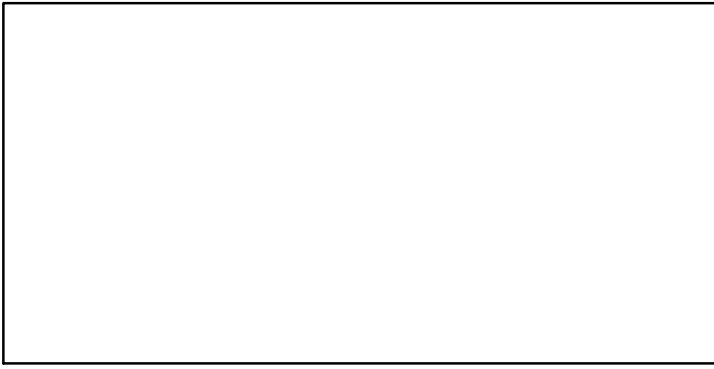
Production*



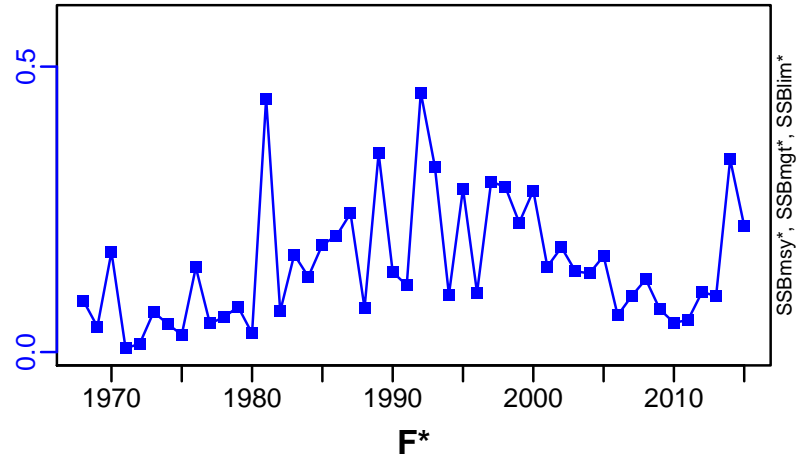
◆ Start Year ◆ End Year * No Data

Witch flounder IIIa, VIId and North Sea [WITFLOUNIIIa-IV-VIId]

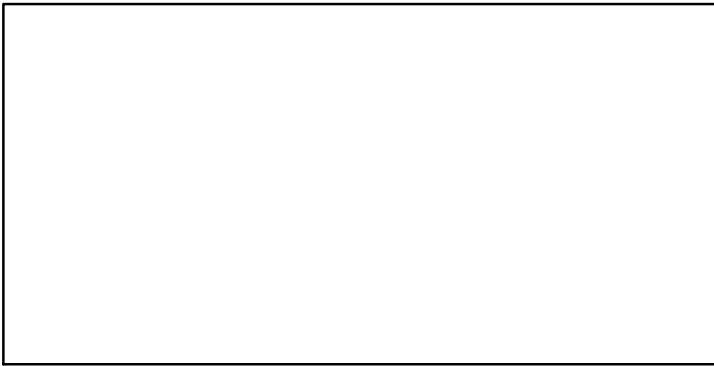
TB*



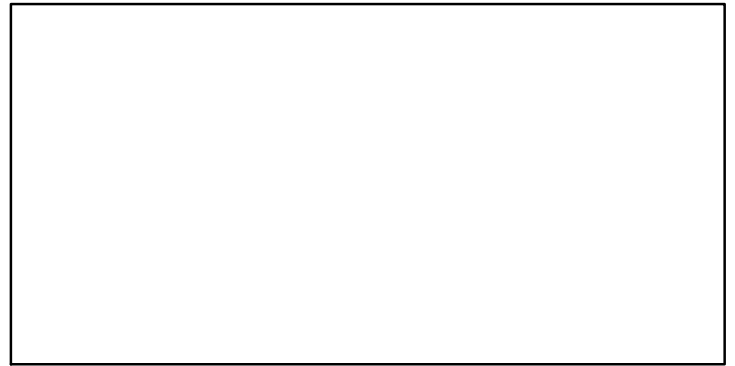
SSB-MT (1968–2015–ICESIMP2018)



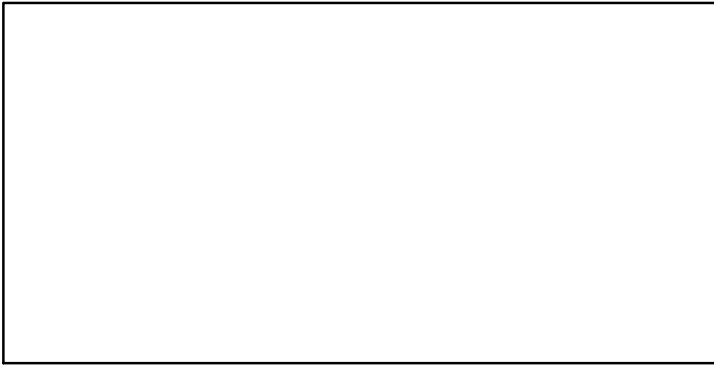
TN *



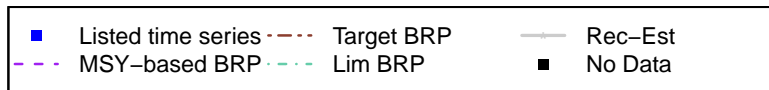
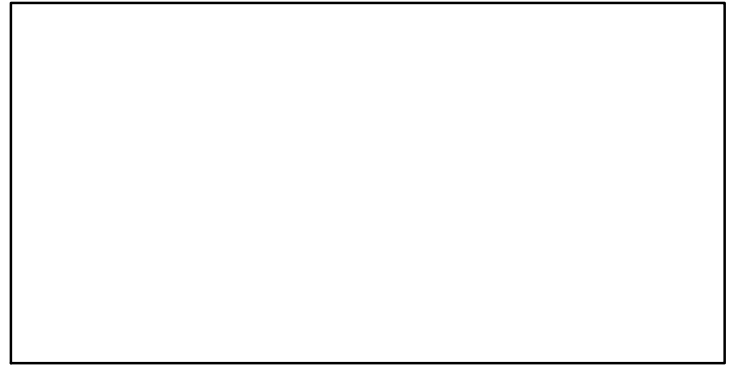
F*



ER*



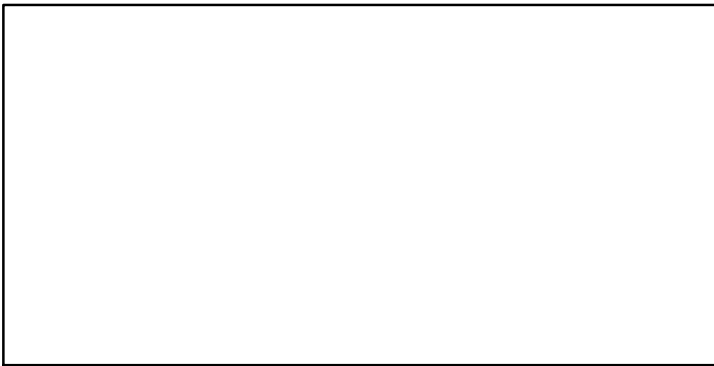
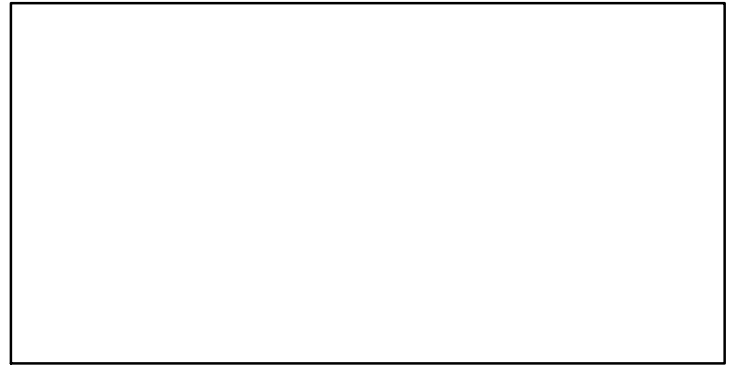
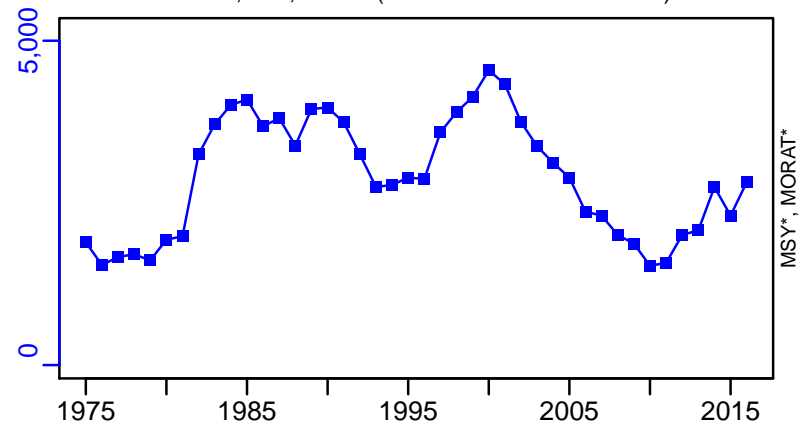
Recruits*



Witch flounder IIIa, VIId and North Sea [WITFLOUNIIIa-IV-VIId]

TL-MT, TC*, RecC* (1975-2016-ICESIMP2018)

TAC*, Cpair*, Cadv*



EFFORT*

CdivMSY*

