

European Union Stocks

v4.25 (Dec-14-2017)

1. Anchovy Portugese Waters -East [ANCHIXa]
2. Anchovy ICES VIII [ANCHOBAYB]
3. Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]
4. Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]
5. Blue jack mackerel Azores (Xa2) [BJMACKXa2]
6. Blue ling I-II-IIIa-IVa-VIII-IX-XII [BLINGI-II-IIIa-IVa-VIII-IX-XII]
7. Boarfish VI and VIII [BOARVI-VIII]
8. Brill Baltic Areas 22-32 [BRILL2232]
9. Blue Whiting Northeast Atlantic [BWHITNEA]
10. Atlantic cod Baltic Areas 22 and 24 [CODBA2224]
11. Atlantic cod Baltic Areas 25-32 [CODBA2532]
12. Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]
13. Atlantic cod Irish Sea [CODIS]
14. Atlantic cod Kattegat [CODKAT]
15. Atlantic cod West of Scotland [CODVIa]
16. Atlantic Cod Celtic Sea [CODVllek]
17. Tusk Va and XIV [CUSKVa-XIV]
18. Tusk Rockall Bank [CUSKVib]
19. Tusk North of Azores [CUSKXII]
20. Dab VII-VIIIabd [DAB2232]
21. European seabass IVbc and VII [EBASSIVbc-VII]
22. European seabass VIa and VIIb-j [EBASSVIa-VIIb-j]
23. European seabass VIIIc and IXa [EBASSVIIIc-IXa]
24. European flounder Subdivisions 22-23 [EFLOUN2223]
25. European flounder Subdivisions 24-25 [EFLOUN2425]
26. European flounder Subdivisions 26-28 [EFLOUN26-28]
27. European flounder Subdivisions 27 and 29-32 [EFLOUN27-2932]
28. European pollack IIIa and North Sea [EPOLLIV-IIIa]
29. European pollack VIII and IXa [EPOLLVIII-IXa]
30. Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]
31. Greater forkbeard Northeast Atlantic [GFORKNEATL]
32. Grey gurnard IIIa, VIId and North Sea [GGURNIIIa-IV-VIId]
33. Greenland halibut NAFO 01ABCDEF [GHAL01ABCDEF]
34. Greenland halibut V-VI-XII-XIV [GHALV-VI-XII-XIV]
35. Golden Redfish V-VI-XII-XIV [GOLDREDV-VI-XII-XIV]
36. Haddock Irish Sea [HADIS]
37. Haddock North Sea and IIIa-VIa [HADNS-IIIa-VIa]
38. Haddock Rockall Bank [HADROCK]
39. Haddock ICES VIIb-k [HADVIIb-k]
40. Hake Northeast Atlantic North [HAKENRTN]
41. Hake Northeast Atlantic South [HAKESOTH]
42. Herring ICES 22-24-IIIa [HERR2224IIIa]
43. Herring Subdivisions 25-29 and 32 [HERR2529-32]
44. Herring ICES 25-32 [HERR2532]
45. Herring ICES 30 [HERR30]
46. Herring ICES 31 [HERR31]
47. Herring Northern Irish Sea [HERRNIRS]
48. Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]
49. Herring ICES 28 [HERRRIGA]
50. Herring ICES VIIa-g-h-j [HERRSIRS]

51. Herring ICES VIa [HERRVIa]
52. Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]
53. Horse mackerel IIa-IVa-Vb-VIa-VII-VIII [HMACKIIa-IVa-Vb-VIa-VII-VIII]
54. Horse mackerel IIIa-IVbc-VIId [HMACKIIIa-IVbc-VIId]
55. Horse mackerel Portugese Waters -East [HMACKIXa]
56. Ling Iceland Grounds [LINGVa]
57. Mackerel ICES Northeast Atlantic [MACKNEICES]
58. Megrin ICES VIIIc-IXa [MEG8c9a]
59. Megrin spp. IVa and VIa [MEGSPPIVa-VIa]
60. Megrin VII-VIIIabd [MEGVII-VIIIabd]
61. Norway lobster Noup (FU 10) [NEPHFU10]
62. Norway lobster North Minch (FU 11) [NEPHFU11]
63. Norway lobster South Minch (FU 12) [NEPHFU12]
64. Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]
65. Norway lobster Irish Sea East (FU 14) [NEPHFU14]
66. Norway lobster Irish Sea West (FU 15) [NEPHFU15]
67. Norway lobster Porcupine Bank (FU 16) [NEPHFU16]
68. Norway lobster Aran Grounds (FU 17) [NEPHFU17]
69. Norway lobster South East and West of IRL (FU 19) [NEPHFU19]
70. Norway lobster Labadie, Jones and Cockburn (FU 20-21) [NEPHFU2021]
71. Norway lobster Smalls (FU 22) [NEPHFU22]
72. Norway lobster North Galicia (FU 25) [NEPHFU25]
73. Norway lobster West Galicia and North Portugal (FU 26-27) [NEPHFU2627]
74. Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]
75. Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]
76. Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]
77. Norway lobster Norwegian Deepes (FU 32) [NEPHFU32]
78. Norway lobster Off Horn Reef (FU 33) [NEPHFU33]
79. Norway lobster Devil's Hole (FU 34) [NEPHFU34]
80. Norway lobster Skagerak Kattegat (FU 3-4) [NEPHFU3-4]
81. Norway lobster Botney Cut - Silver Pit (FU 5) [NEPHFU5]
82. Norway lobster Farn Deepes (FU 6) [NEPHFU6]
83. Norway lobster Fladen Ground (FU 7) [NEPHFU7]
84. Norway lobster Firth of Forth (FU 8) [NEPHFU8]
85. Norway lobster Moray Firth (FU 9) [NEPHFU9]
86. Norway pout IIIa and North Sea [NPOUTIIIa-IV]
87. Orange roughy Northeast Atlantic [OROUGHYNEATL]
88. Northern shrimp IIIa (west) and IVa (east) [PANDALIIIaW-IVaE]
89. Northern shrimp Northern North Sea [PANDALIVa]
90. European Plaice Subdivisions 21-23 [PLAIC2123]
91. European Plaice Subdivisions 24-32 [PLAIC2432]
92. European Plaice ICES VIId [PLAIC7d]
93. European Plaice ICES VII-f-g [PLAICCELT]
94. European Plaice ICES VIIe [PLAICECHW]
95. European Plaice ICES IIIa [PLAICIIIa]
96. European Plaice Irish Sea [PLAICIS]
97. European Plaice North Sea [PLAICNS]
98. European Plaice VIIbc [PLAICVIIbc]
99. European Plaice VIIh-k [PLAICVIIh-k]
100. European Plaice VIII and IXa [PLAICVIII-IXa]
101. Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]
102. Red seabream IX [RBRMIX]
103. Red seabream VI-VII-VIII [RBRMVI-VII-VIII]
104. Red seabream Azores Grounds [RBRMX]
105. Beaked Redfish Areas V-XII-XIV and NAFO Subareas 1-2 [REDDEEPSH1-2-V-XII-XIV]
106. Beaked Redfish Southeast Greenland [REDDEEPXIVb]

107. Redfish species NAFO 1 [REDFISHSPP1]
108. Roughhead grenadier Northeast Atlantic [RHGRENNEATL]
109. Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2 [RNGENI-II-IV-Va2-VIII-IX-XIVab2]
110. Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]
111. Roundnose grenadier Vb-VI-VII-XIIb [RGENVb-VI-VII-XIIb]
112. Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]
113. European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]
114. Sand eel SA 1 [SEELNSSA1]
115. Sand eel SA 2 [SEELNSSA2]
116. Sand eel SA 3 [SEELNSSA3]
117. Sand eel SA 5 [SEELNSSA5]
118. Sand eel SA 6 [SEELNSSA6]
119. Sand eel SA 7 [SEELNSSA7]
120. Common sole Celtic Sea [SOLECS]
121. Common sole 22-24-IIIa [SOLEIIIa-2224]
122. Common sole Irish Sea [SOLEIS]
123. Common sole North Sea [SOLENS]
124. Common sole VIIbc [SOLEVIIbc]
125. Common sole ICES VIId [SOLEVIId]
126. Common sole Western English Channel [SOLEVIIe]
127. Common sole VIIh-k [SOLEVIIh-k]
128. Common sole VIIIab [SOLEVIIIab]
129. Sprat ICES Baltic Areas 22-32 [SPRAT22-32]
130. Sprat Kattegat and Skagerrak [SPRATIIIa]
131. Sprat North Sea [SPRATNS]
132. Sprat VIIde [SPRATVIIde]
133. Sprat VI and VIIabcfghijk [SPRATVI-VIIabcfghijk]
134. Spurdog Northeast Atlantic [SPURDNEATL]
135. Turbot Baltic Areas 22-32 [TUR2232]
136. Turbot North Sea [TURIV]
137. White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]
138. White anglerfish VII and VIIIabd [WANGLVII-VIIIabd]
139. Whiting NS-VIId [WHITNS-VIId]
140. Whiting ICES VIa [WHITVIa]
141. Whiting ICES VIIe-k [WHITVIIek]
142. Whiting VIII and IXa [WHITVIII-IXa]

Anchovy Portuguese Waters -East [ANCHIXa]

Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHIXa-1989-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
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	-	-
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*



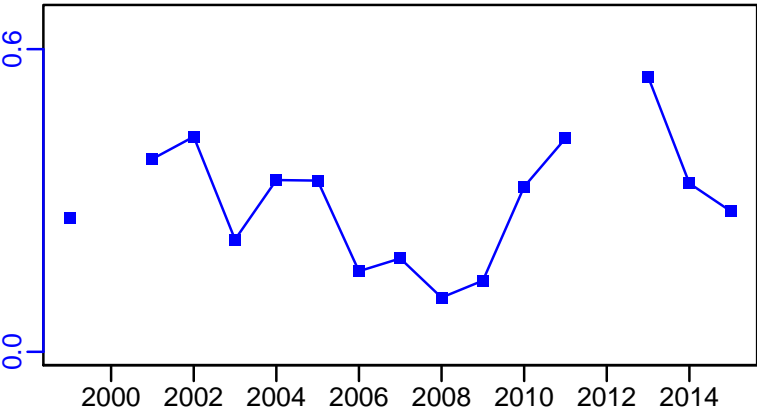
TN *



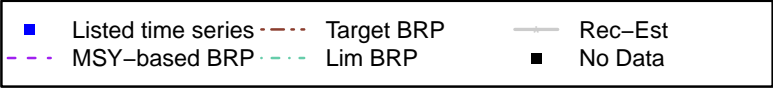
F*



ER-ratio (1989–2016–ICESIMP2016)

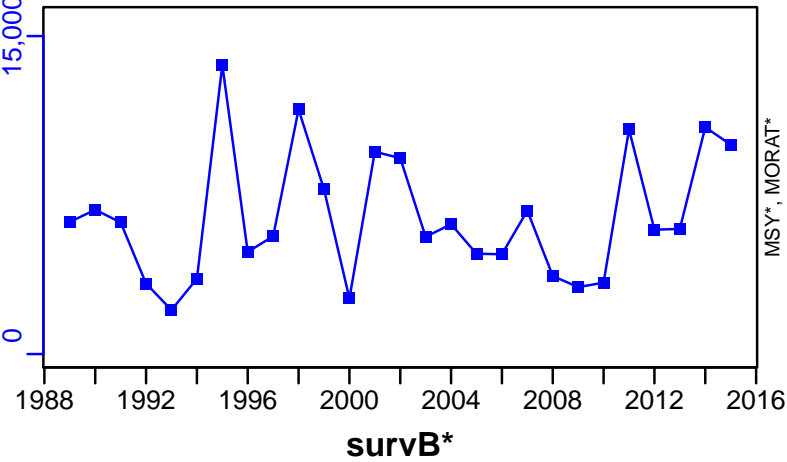


Recruits*

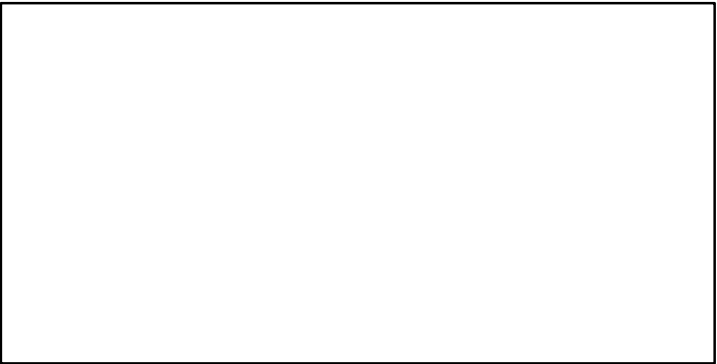


Anchovy Portuguese Waters –East [ANCHIXa]

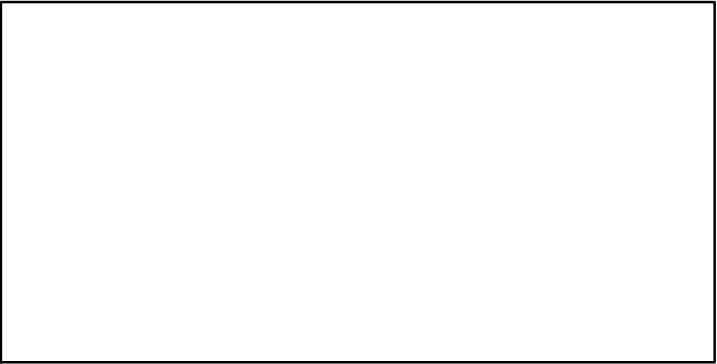
TL–MT, TC*, RecC* (1989–2016–ICESIMP2016)



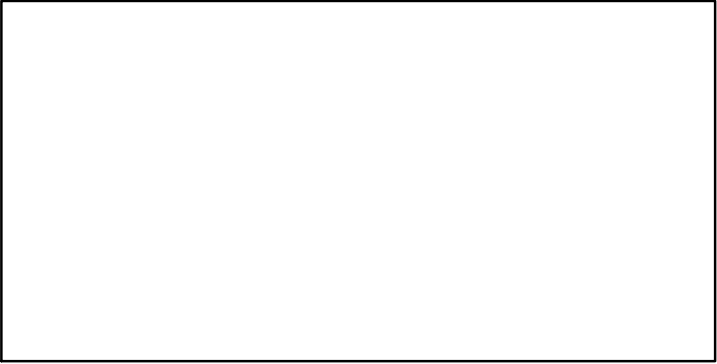
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Anchovy ICES VIII [ANCHOBAYB]

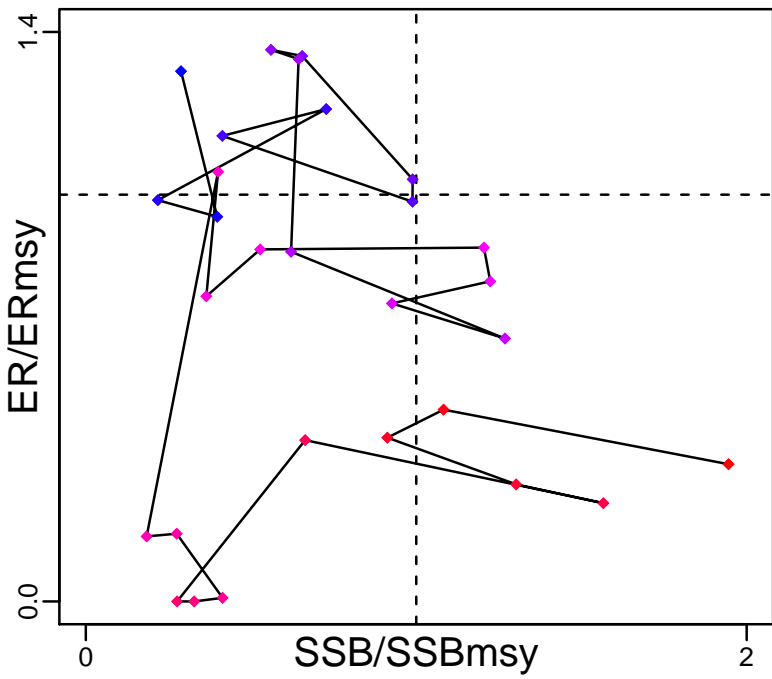
Metadata	
Scientific Name	Engraulis encrasicolus
Current Assess ID	WGHANSA-ANCHOBAYB-1986-2015-ICESIMP2016
Area	Bay of Biscay
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	49,781
SSBmsy	SSBmsy-est-MT	2015	75,824
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2015	0.51
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	33,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	59,483
M	M-1/yr	2007	1.2
TBlim	TBlim-MT	2014	21,000
SSBlim	SSBlim-MT	2015	21,000
Flim	-	-	-
ERlim	-	-	-

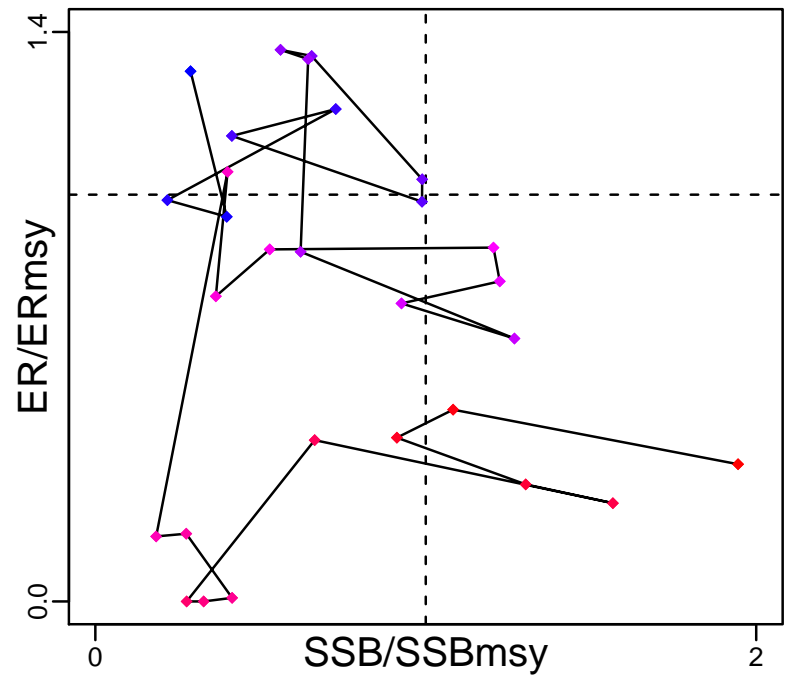
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	66,200	-	-
SSB	SSB-MT	2015	147,000	-	-
TN	-	-	-	-	-
R	R-MT	2015	134,000	-	1
F	F-1/yr	2014	0	-	1+
ER	ER-ratio	2015	0	-	-
TC	TC-MT	2015	25,100		
TL	TL-MT	2015	25,100		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.33		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2015	1.95		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2015	0.34		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.7		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Anchovy ICES VIII [ANCHOBAYB]

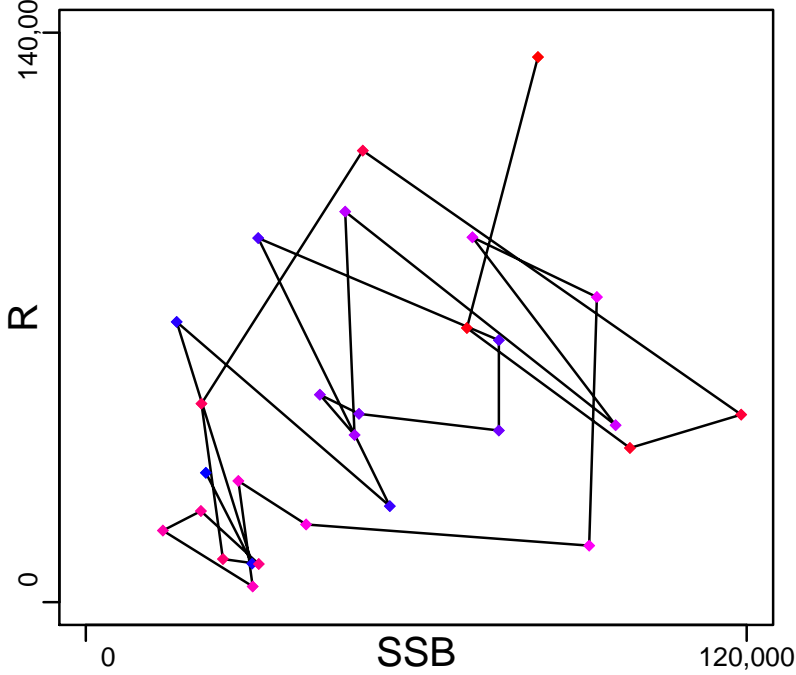
Kobe MSYpref (1986–2015–ICESIMP2016)



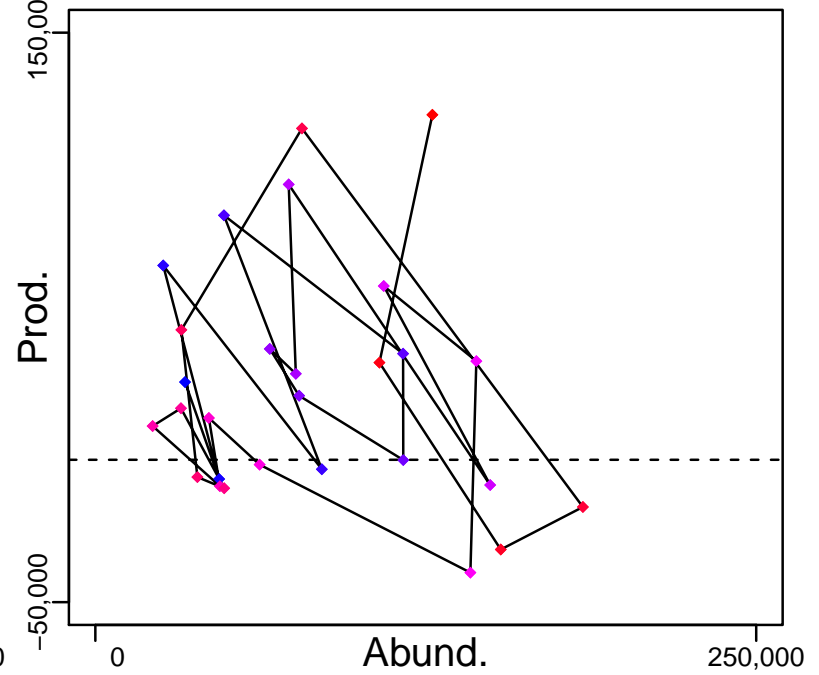
Kobe MGTpref (1986–2015–ICESIMP2016)



Spawner Recruit (1986–2015–ICESIMP2016)



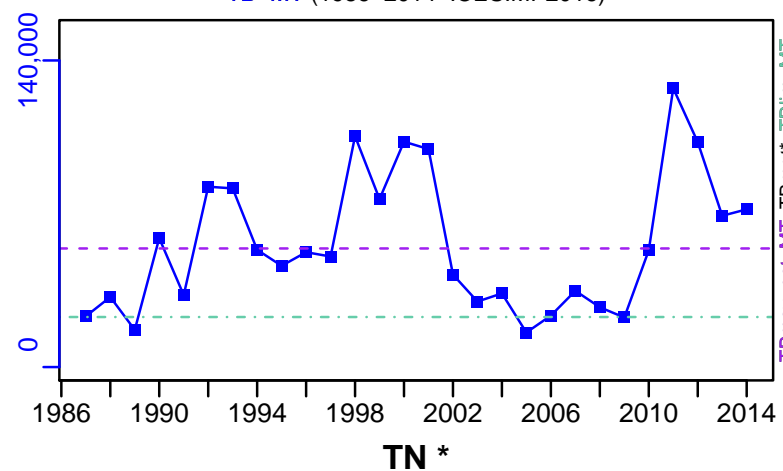
Production (1986–2015–ICESIMP2016)



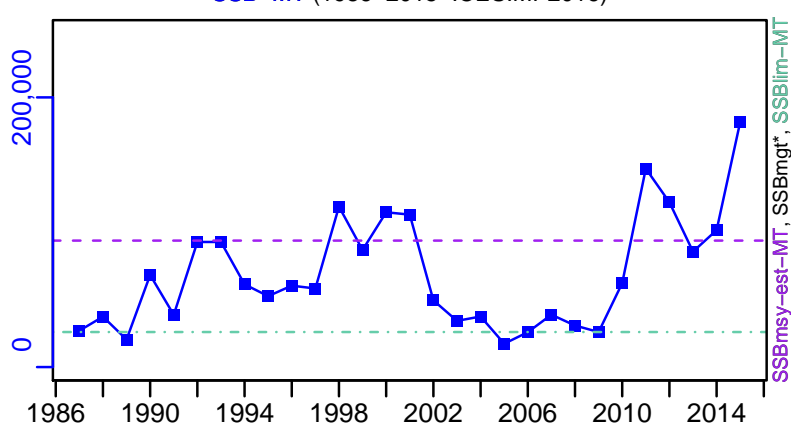
◆ Start Year ◆ End Year * No Data

Anchovy ICES VIII [ANCHOBAYB]

TB-MT (1986–2014–ICESIMP2016)



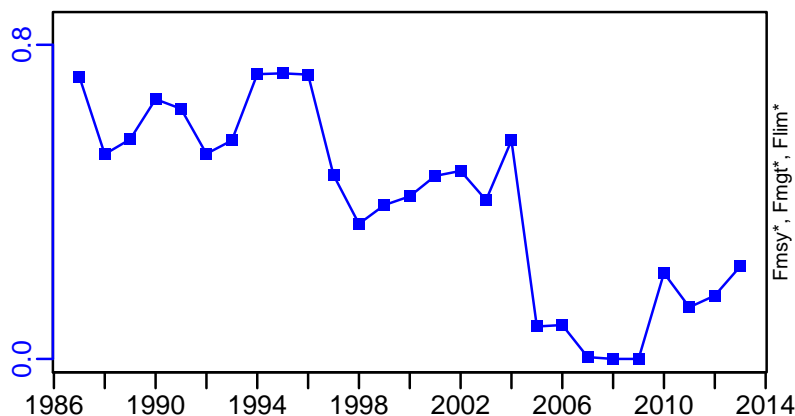
SSB-MT (1986–2015–ICESIMP2016)



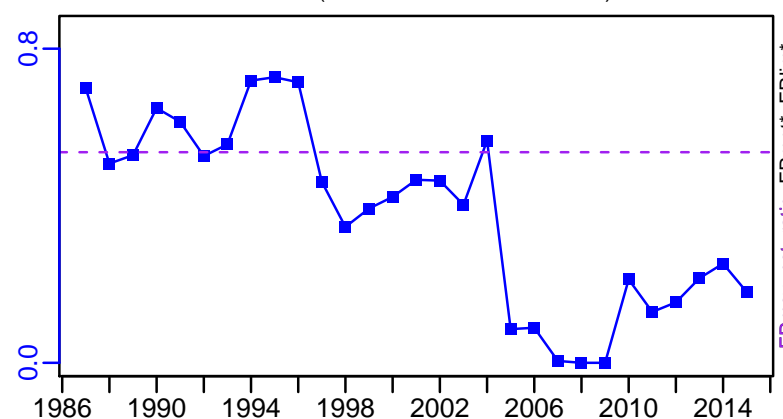
TN *



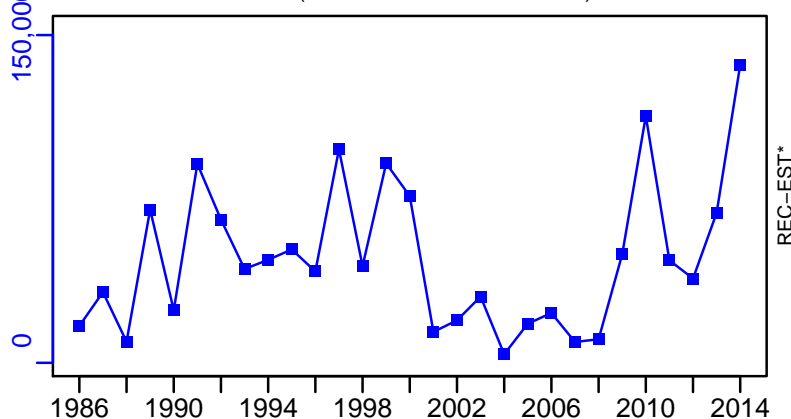
F-1/yr (1986–2014–ICESIMP2016)



ER-ratio (1986–2015–ICESIMP2016)



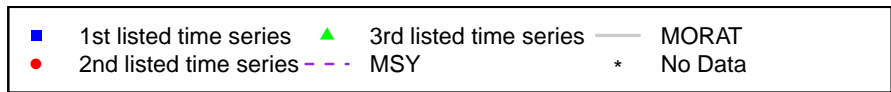
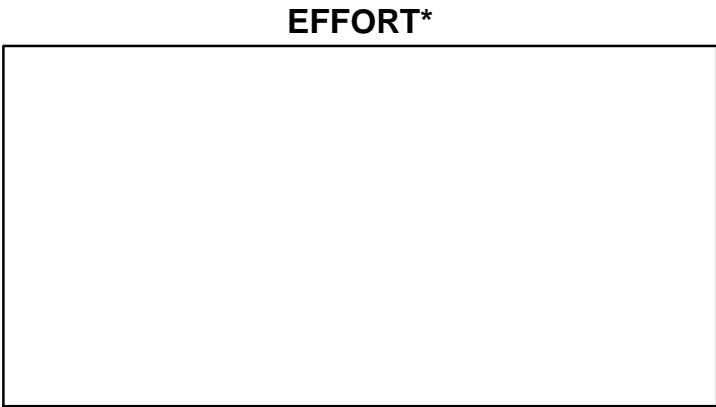
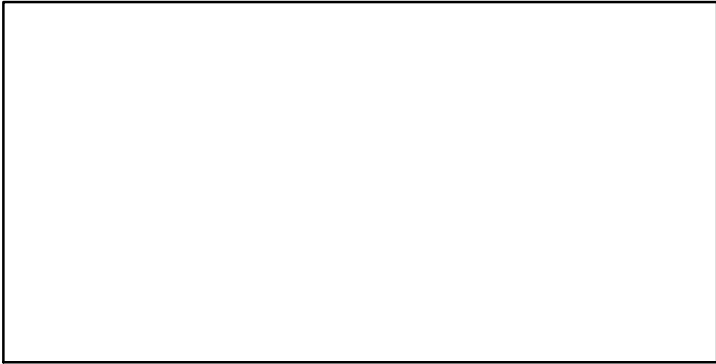
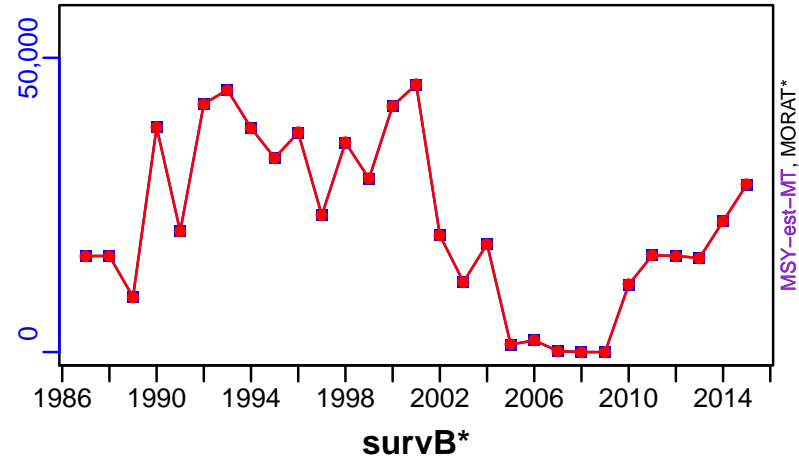
R-MT (1986–2015–ICESIMP2016)



Anchovy ICES VIII [ANCHOBAYB]

TC-MT, TL-MT, RecC* (1986–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

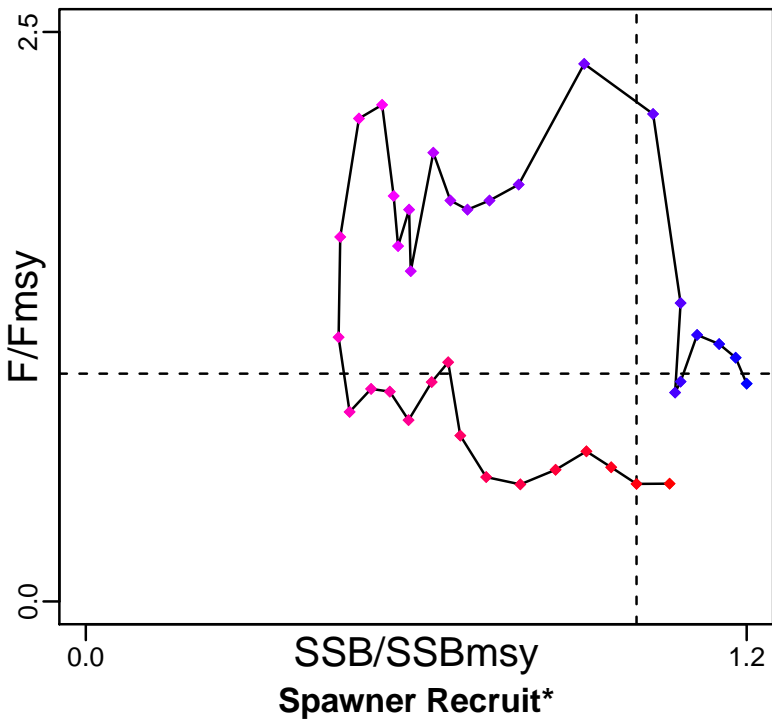
Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVIIIc-IXa-1980-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 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	-	-	-

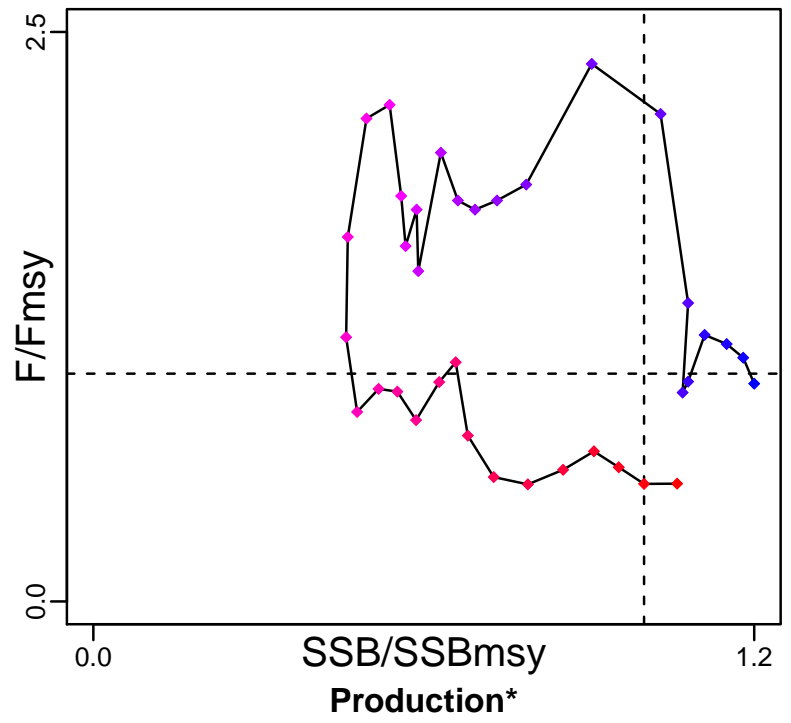
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

Kobe MSYpref (1980–2016–ICESIMP2016)



Kobe MGTpref (1980–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

TB*



SSB*



TN *



F*



ER*

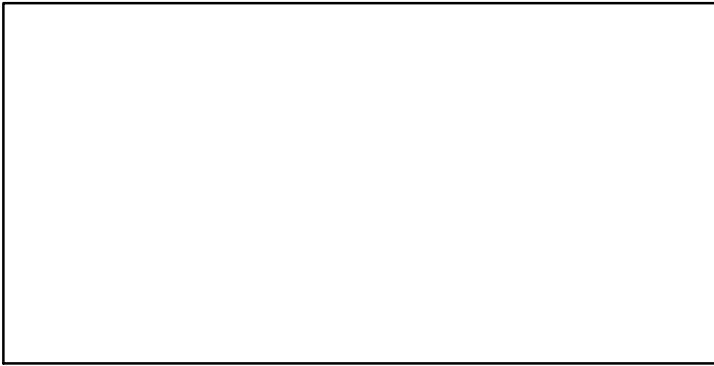


Recruits*

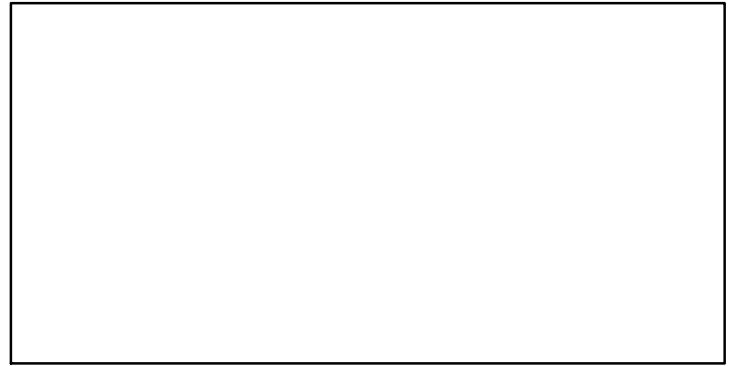


Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

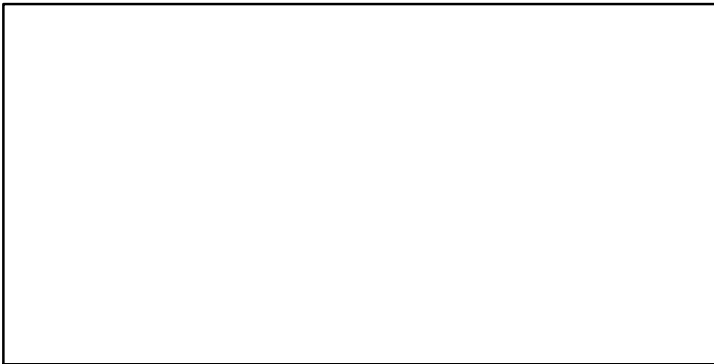
TC*, TL*, RecC*



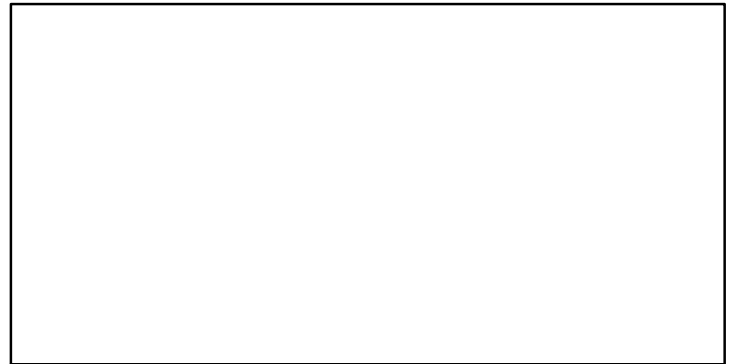
TAC*, Cpair*, Cadv*



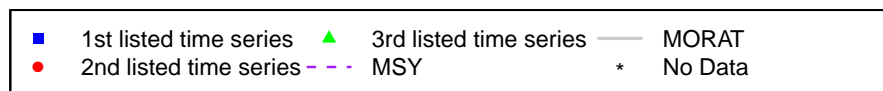
survB*



CPUE*



EFFORT*



Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

Metadata	
Scientific Name	Lophius budegassa
Current Assess ID	WGBIE-ANGLVII-VIIIabd-1986-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

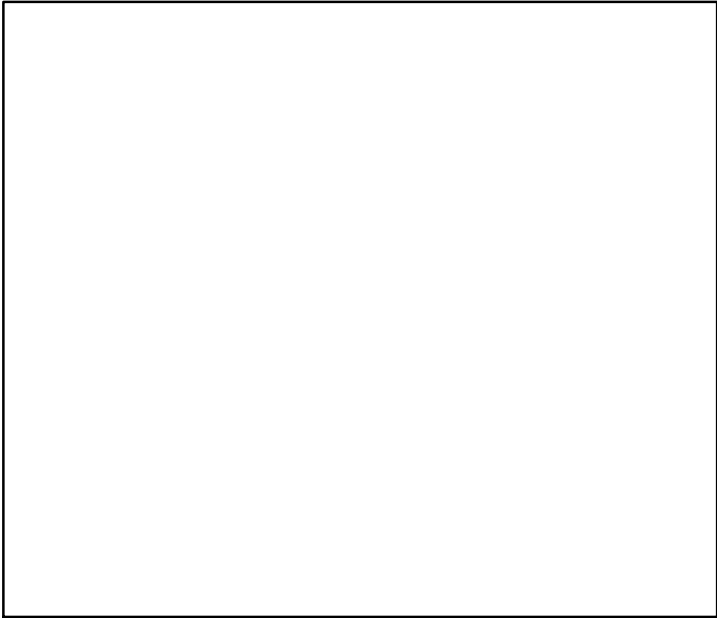
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

TB*



SSB*



TN *



F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- - -

MSY

—

MORAT

*

No Data

Blue jack mackerel Azores (Xa2) [BJMACKXa2]

Metadata	
Scientific Name	Trachurus picturatus
Current Assess ID	WGHANSA-BJMACKXa2-1978-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	2016	874		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*



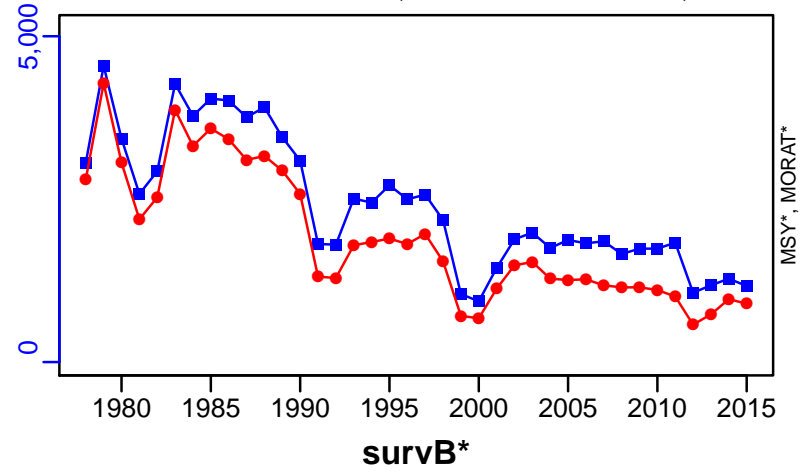
Recruits*



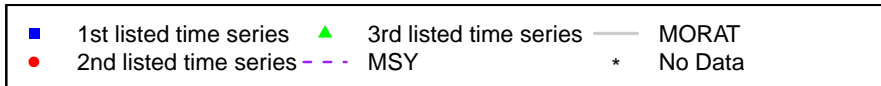
Blue jack mackerel Azores (Xa2) [BJMACKXa2]

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

TAC*, Cpair*, Cadv*



EFFORT*



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-1988-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



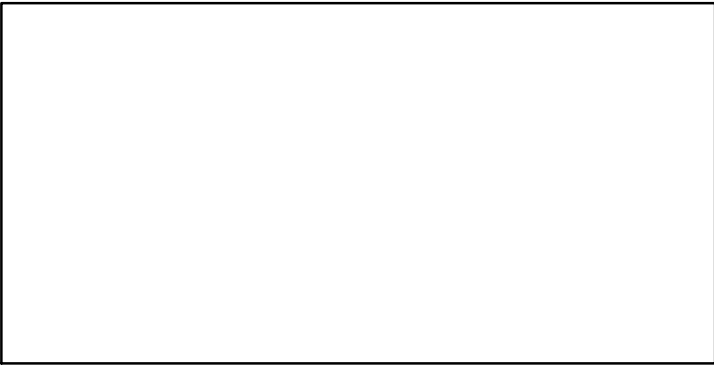
Production*



◆ Start Year ◆ End Year * No Data

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

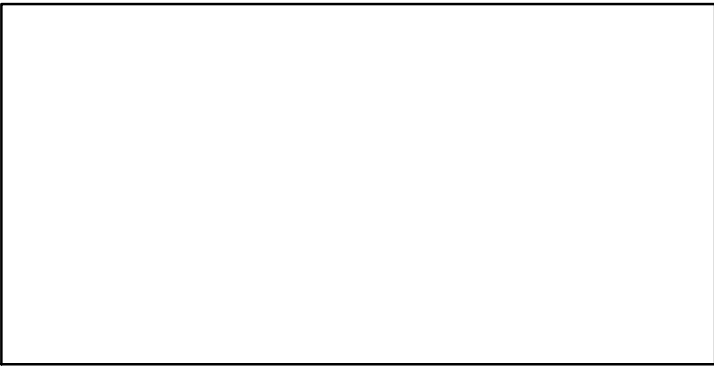
TB*



SSB*



TN *



F*



ER*



Recruits*



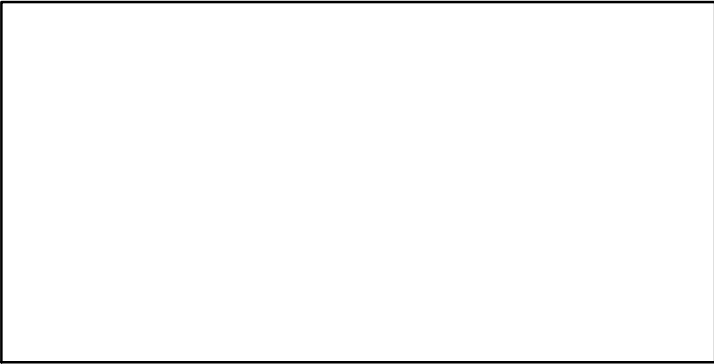
TC*, TL*, RecC*



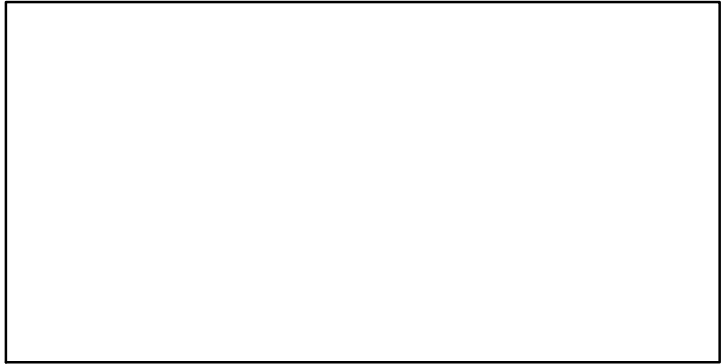
TAC*, Cpair*, Cadv*



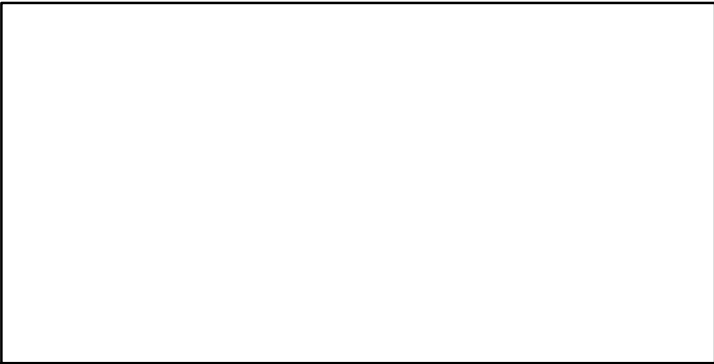
survB*



CPUE*



EFFORT*



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

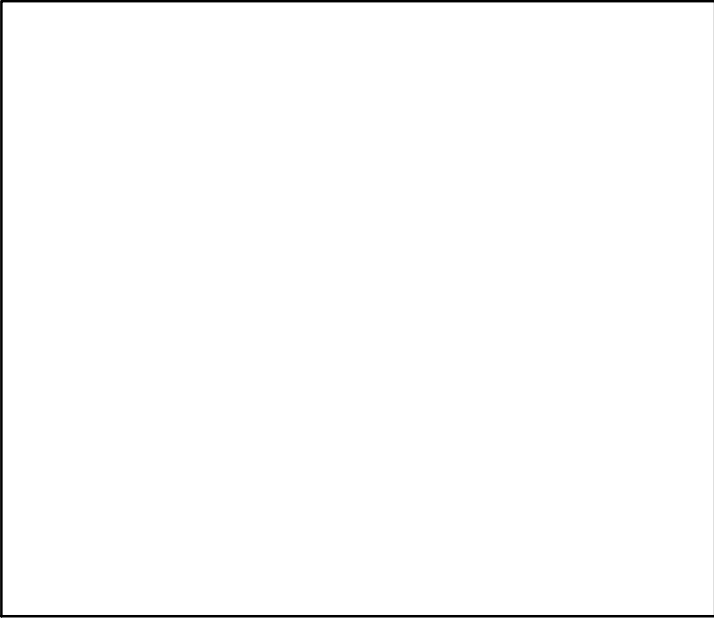
Boarfish VI and VIII [BOARVI-VIII]

Metadata	
Scientific Name	Capros aper
Current Assess ID	WGWIDE-BOARVI-VIII-2001-2015-ICESIMP2016
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, 2015

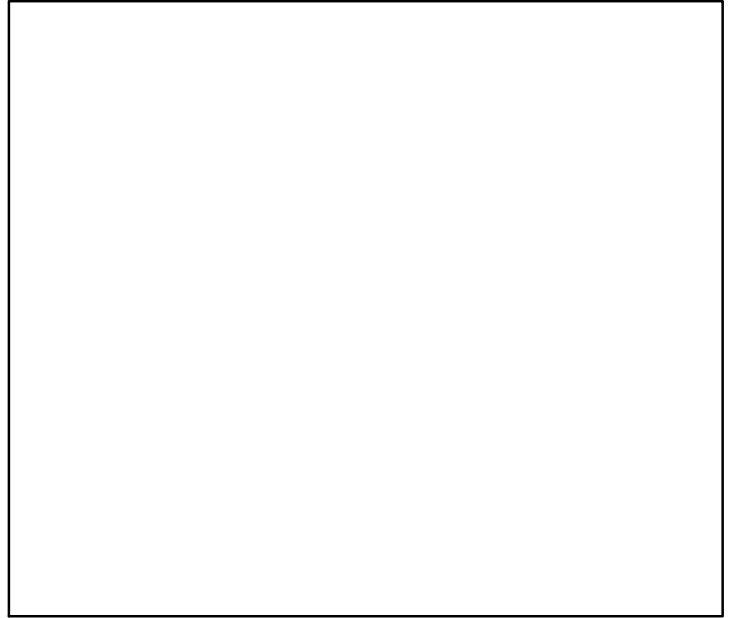
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

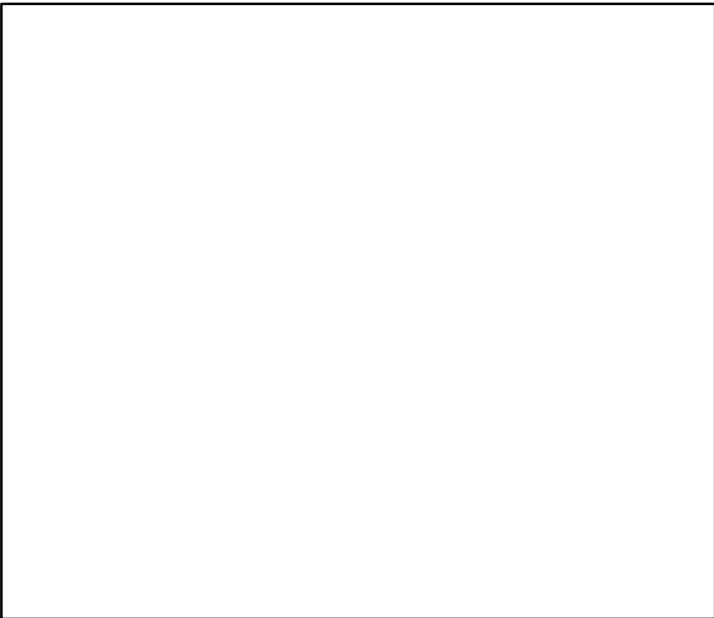
Kobe MSY*



Kobe MGT*



Spawner Recruit*



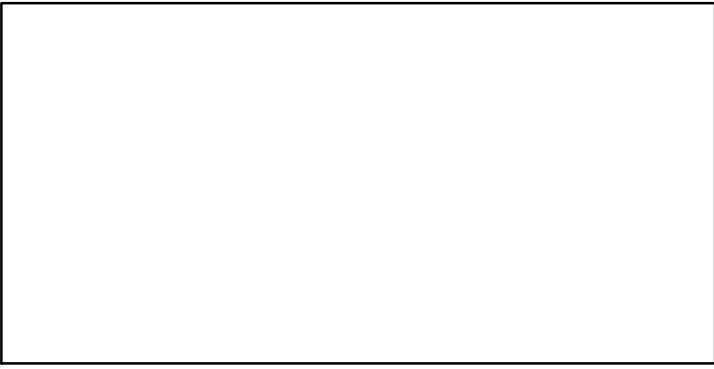
Production*



◆ Start Year ◆ End Year * No Data

Boarfish VI and VIII [BOARVI–VIII]

TB*



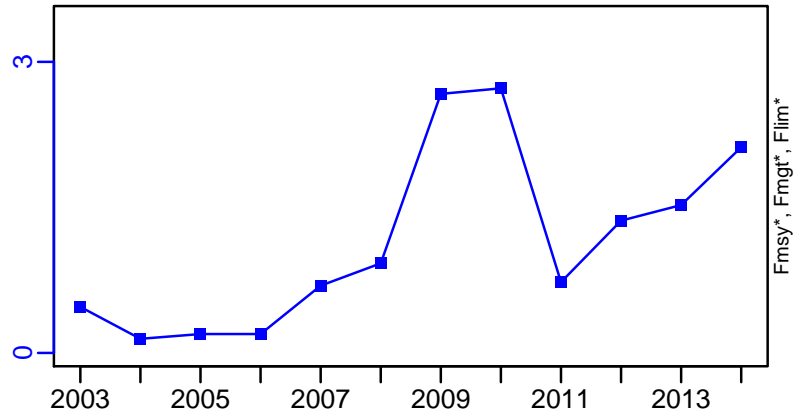
SSB*



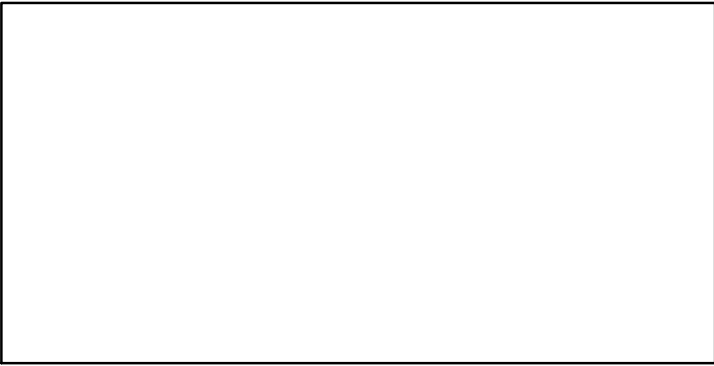
TN *



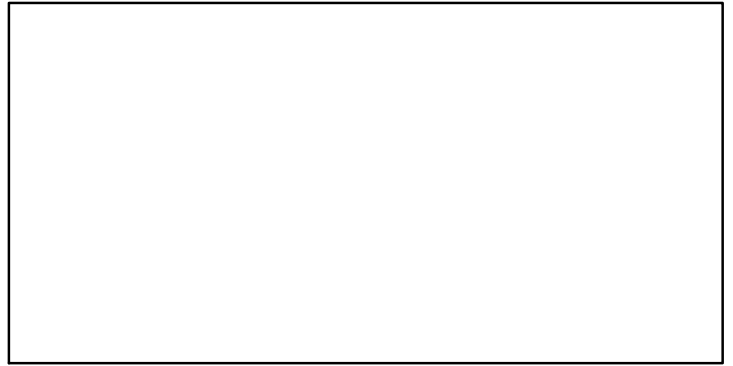
F_{relative} (2001–2015–ICESIMP2016)



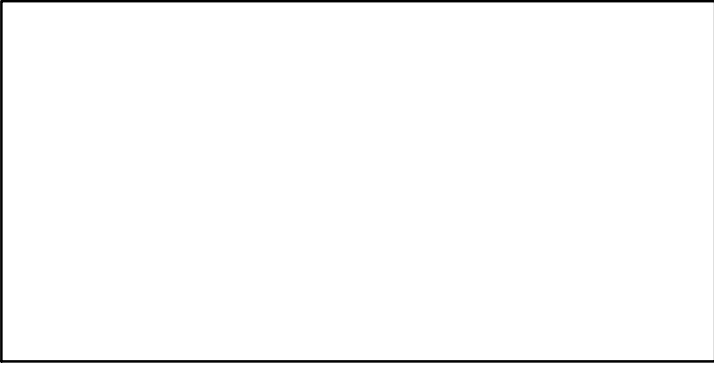
ER*



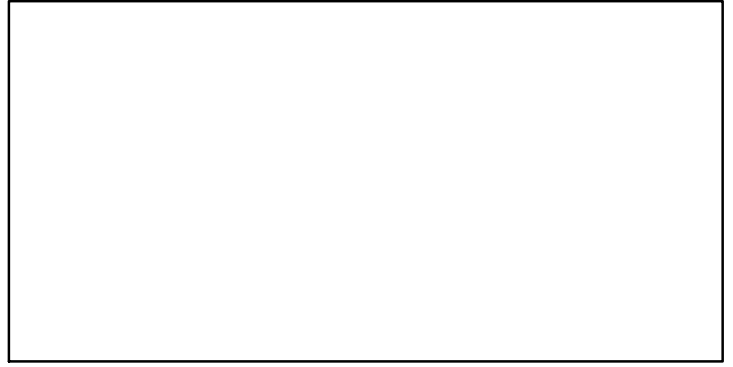
Recruits*



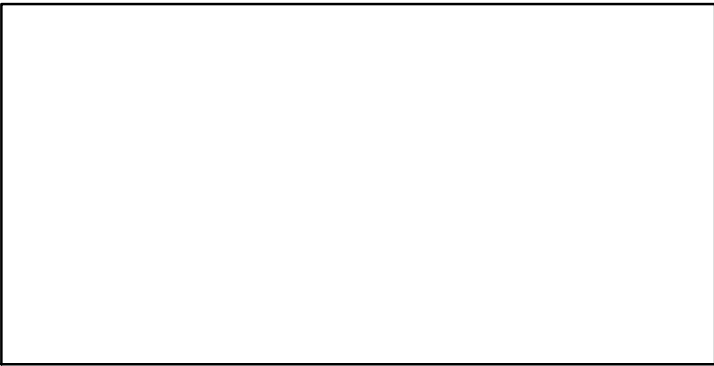
TC*, TL*, RecC*



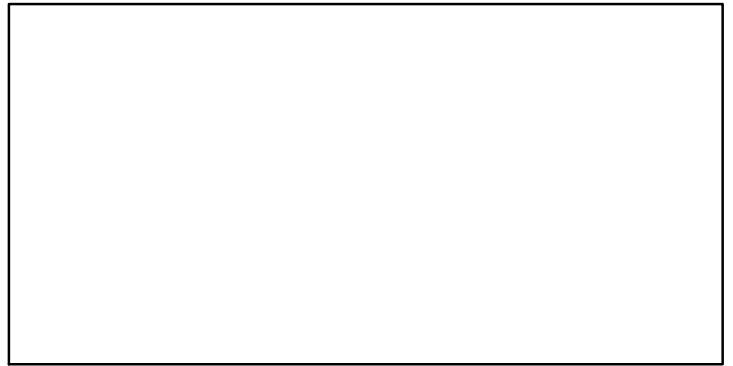
TAC*, Cpair*, Cadv*



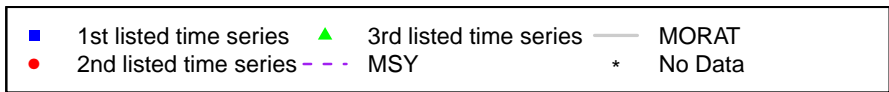
survB*



CPUE*



EFFORT*



Brill Baltic Areas 22-32 [BRILL2232]

Metadata	
Scientific Name	Scophthalmus rhombus
Current Assess ID	WGBFAS-BRILL2232-1970-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	40		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*

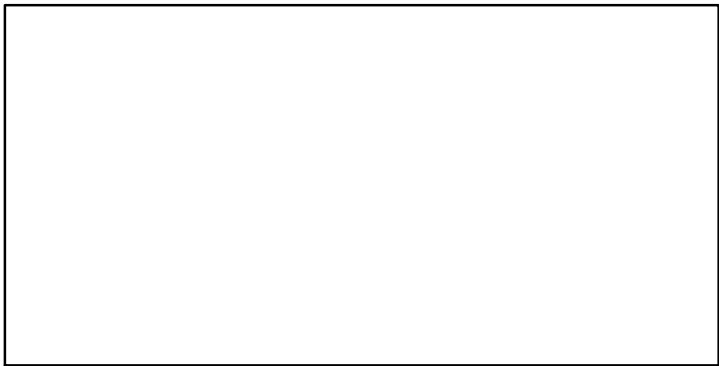


◆ Start Year ◆ End Year * No Data

TB*



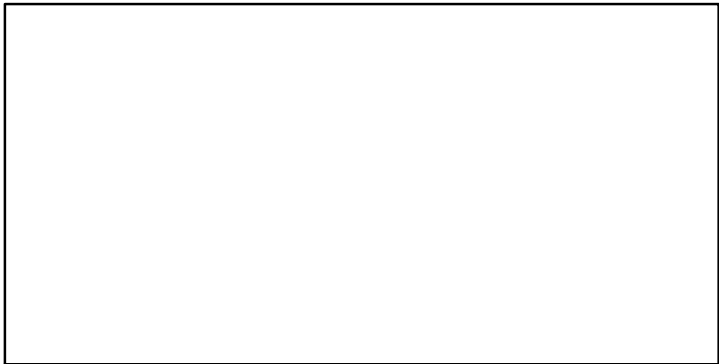
SSB*



TN *



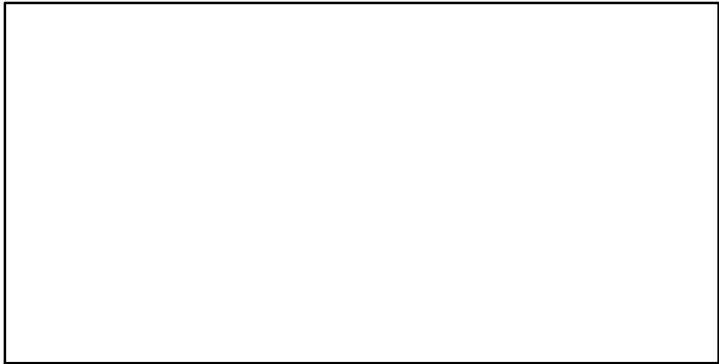
F*



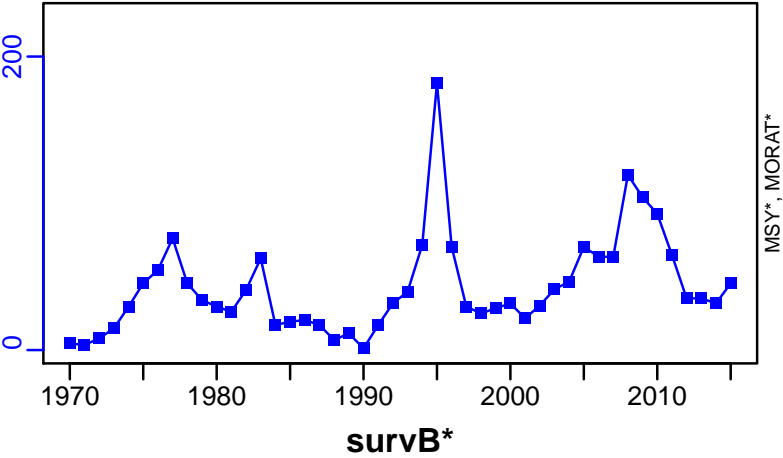
ER*



Recruits*



TL–MT, TC*, RecC* (1970–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Blue Whiting Northeast Atlantic [BWHITNEA]

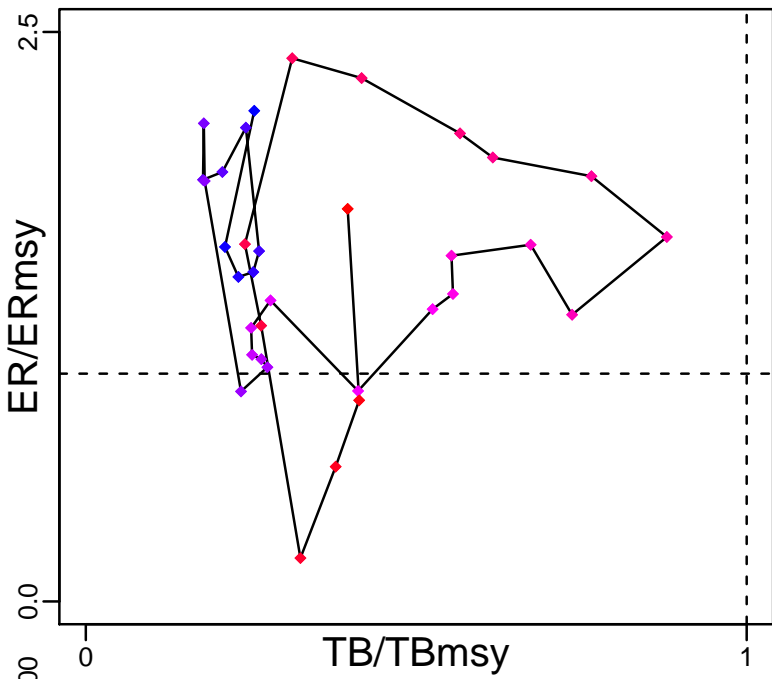
Metadata	
Scientific Name	Micromesistius poutassou
Current Assess ID	WGWIDE-BWHITNEA-1980-2015-ICESIMP2016
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2012, 2013, 2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	13,413,346
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.3
ERmsy	ERmsy-est-ratio	2015	0.13
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	2,250,000
Fmgt	Fmgt-1/yr	2015	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	1,681,218
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	1,500,000
Flim	Flim-1/yr	2015	0.48
ERlim	-	-	-

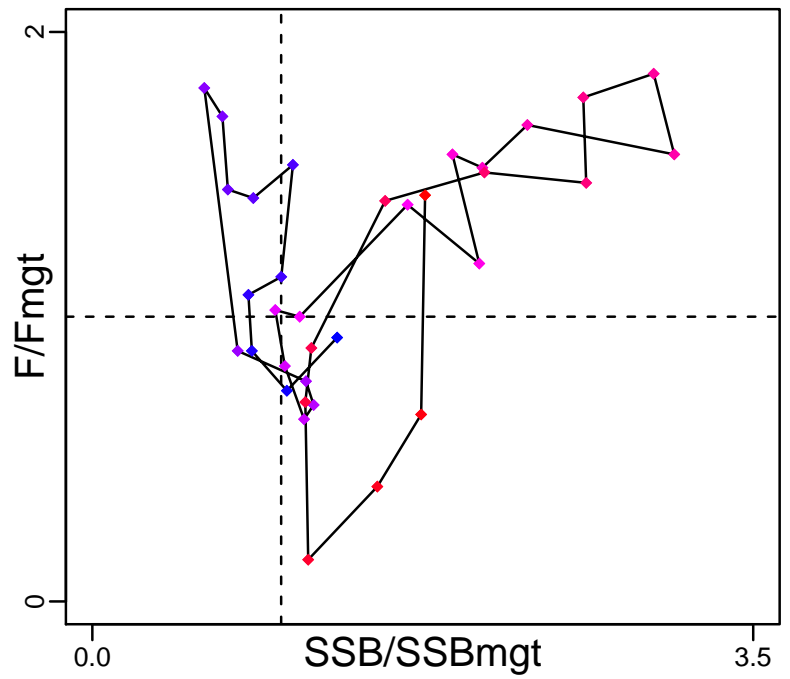
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	5,320,000	-	-
SSB	SSB-MT	2015	3,620,000	-	-
TN	-	-	-	-	-
R	R-E00	2015	2.33×10^{10}	-	1
F	F-1/yr	2015	0	-	3 to 7
ER	ER-calc-ratio	2015	0	-	-
TC	TC-MT	2015	1,150,000		
TL	TL-MT	2014	614,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.4		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.43		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	1.72		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.61		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	1.43		
ER/ERmgt	-	-	-		

Blue Whiting Northeast Atlantic [BWHITNEA]

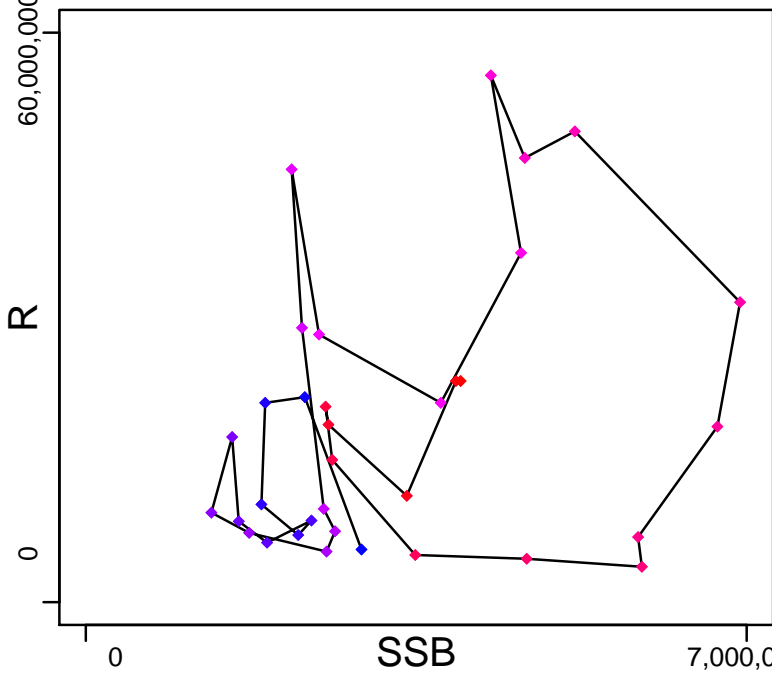
Kobe MSYpref (1980–2015–ICESIMP2016)



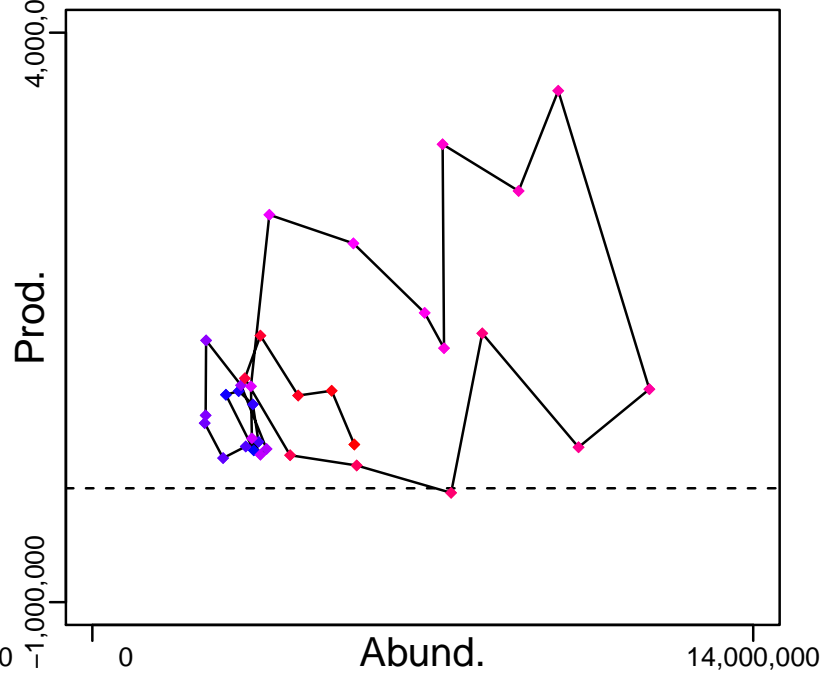
Kobe MGTpref (1980–2015–ICESIMP2016)



Spawner Recruit (1980–2015–ICESIMP2016)

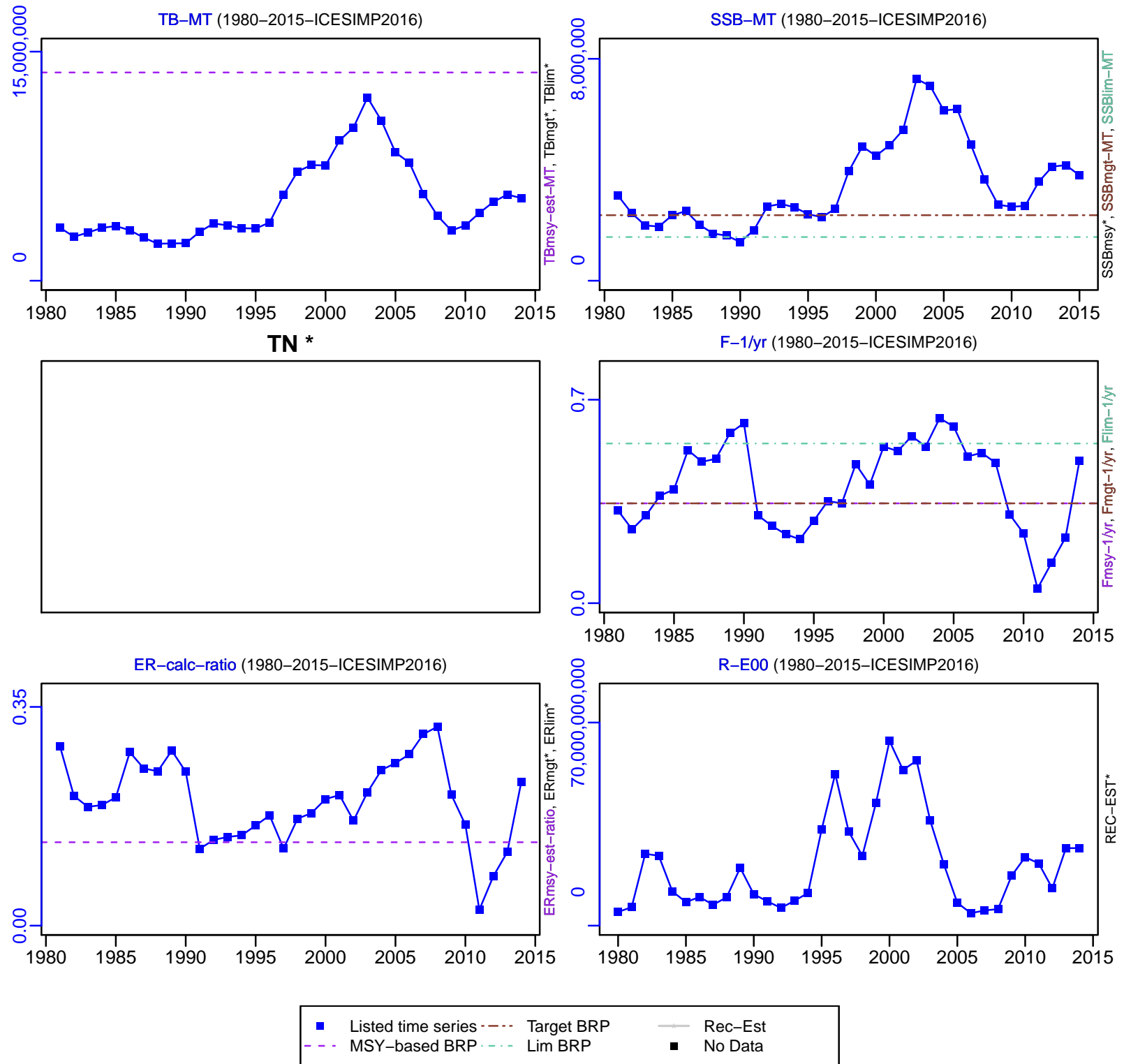


Production (1980–2015–ICESIMP2016)



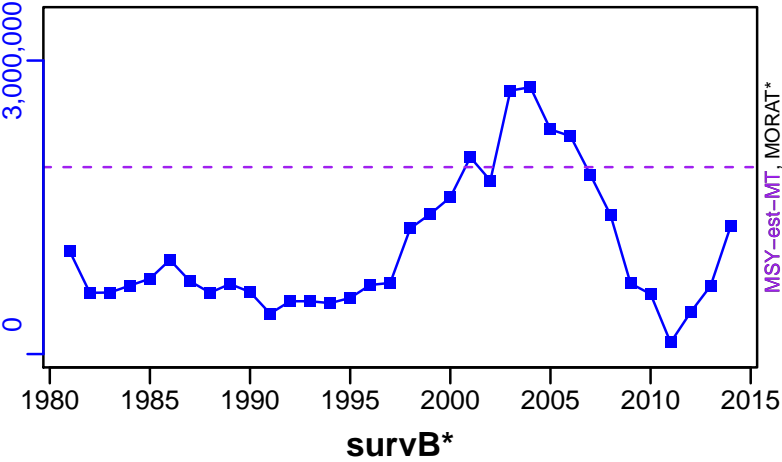
◆ Start Year ◆ End Year * No Data

Blue Whiting Northeast Atlantic [BWHITNEA]



Blue Whiting Northeast Atlantic [BWHITNEA]

TC-MT, TL*, RecC* (1980-2015-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

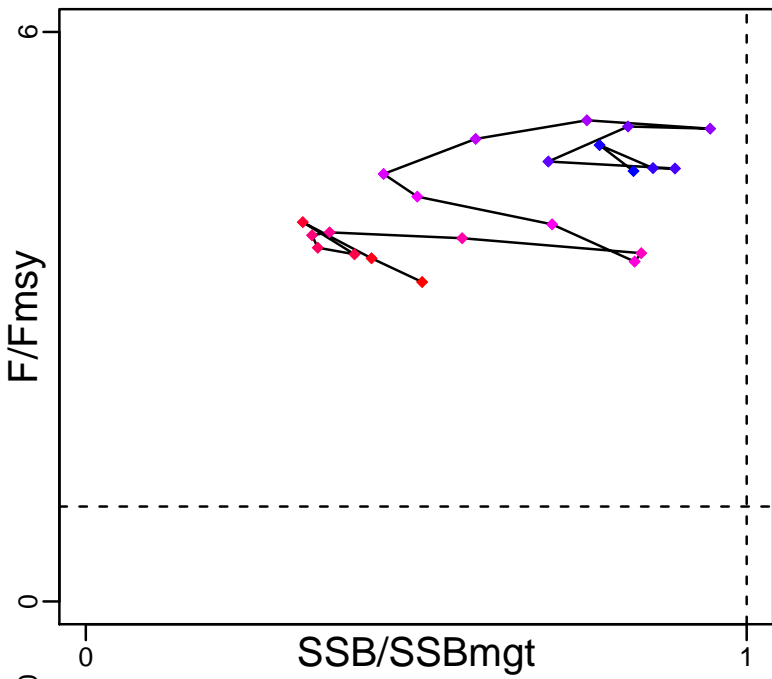
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2224-1993-2016-ICESIMP2016
Area	Western Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	164,173
SSBmsy	SSBmsy-est-MT	2012	94,381
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	ERmsy-est-ratio	2013	0.31
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	38,400
Fmgt	Fmgt-1/yr	2016	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	23,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	27,400
Flim	Flim-1/yr	2016	1.01
ERlim	-	-	-

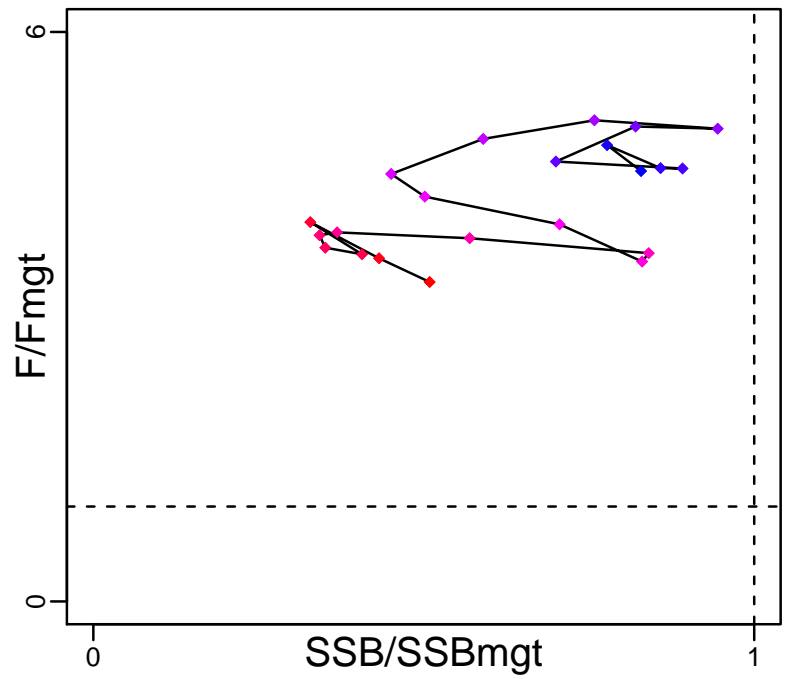
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	22,400	-	-
SSB	SSB-MT	2016	19,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,090,000	-	1
F	F-1/yr	2016	1	-	3 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	8820		
TL	TL-MT	2016	8370		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.36		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2012	0.38		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	3.37		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2013	0.93		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.5		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.37		
ER/ERmgt	-	-	-		

Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

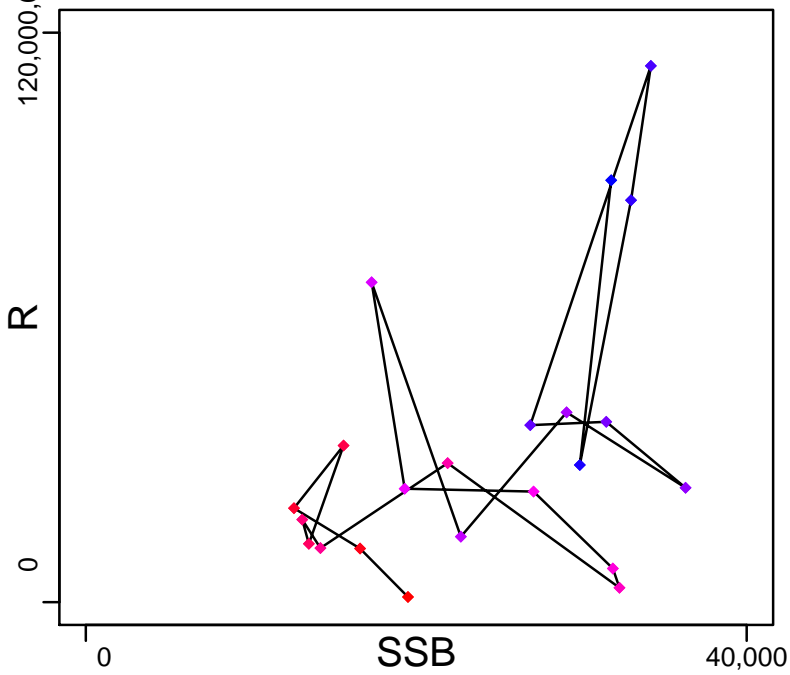
Kobe MSYpref (1993–2016–ICESIMP2016)



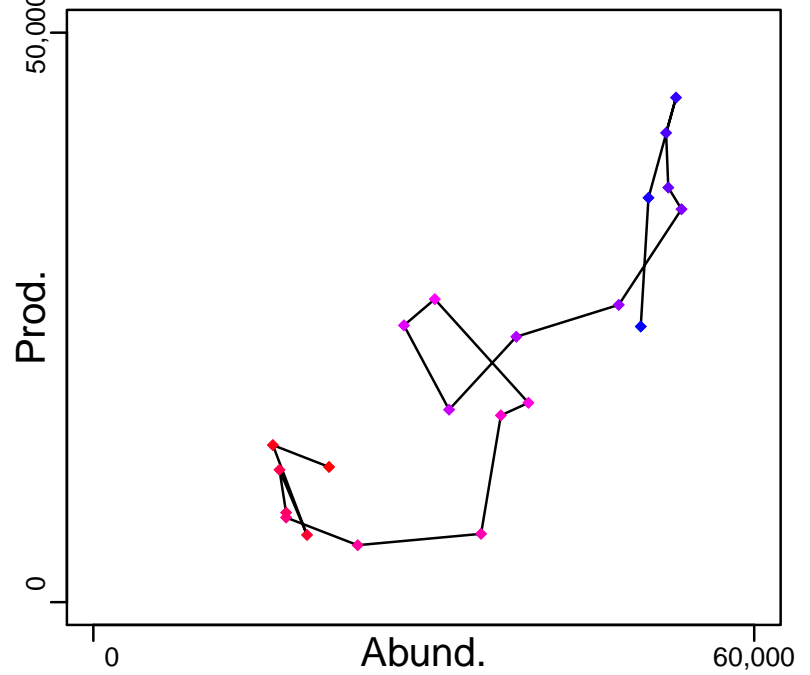
Kobe MGTpref (1993–2016–ICESIMP2016)



Spawner Recruit (1993–2016–ICESIMP2016)



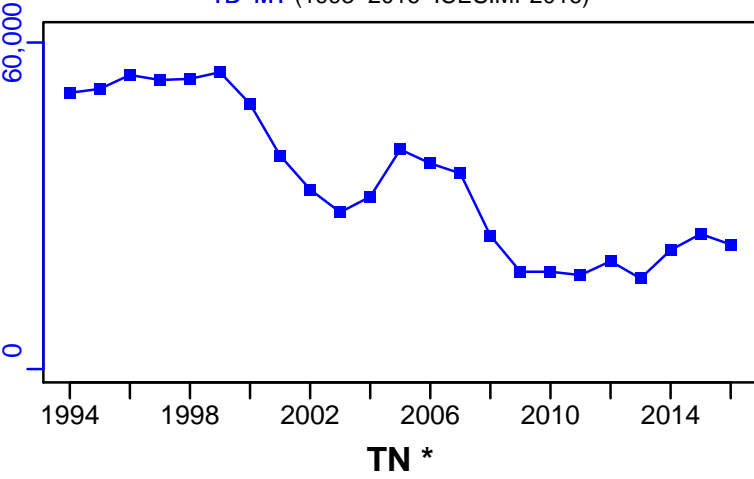
Production (1993–2016–ICESIMP2016)



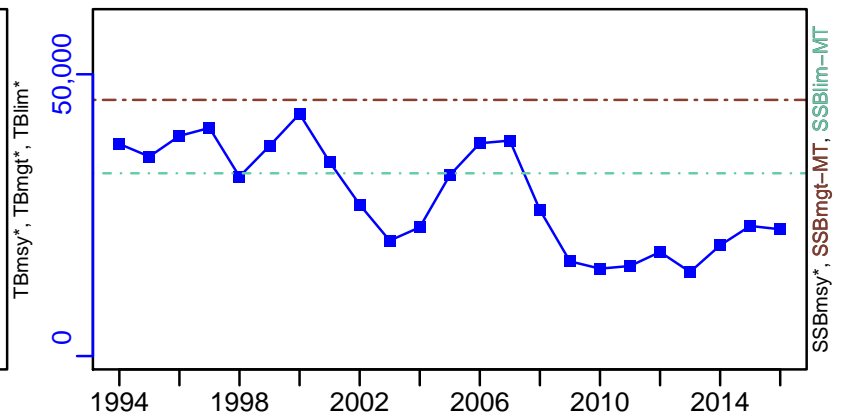
◆ Start Year ◆ End Year * No Data

Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

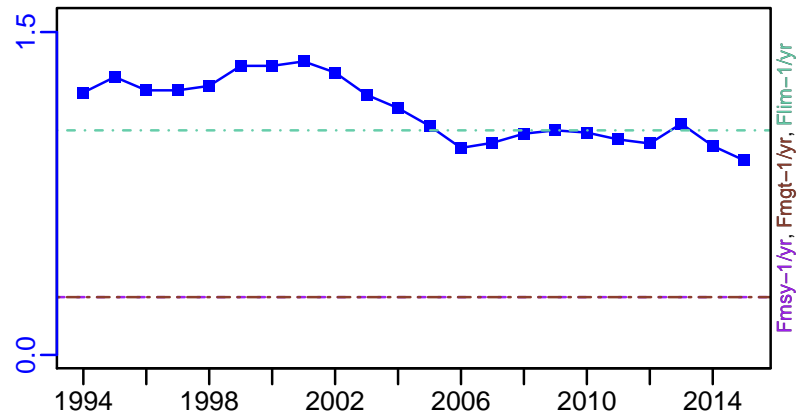
TB-MT (1993–2016–ICESIMP2016)



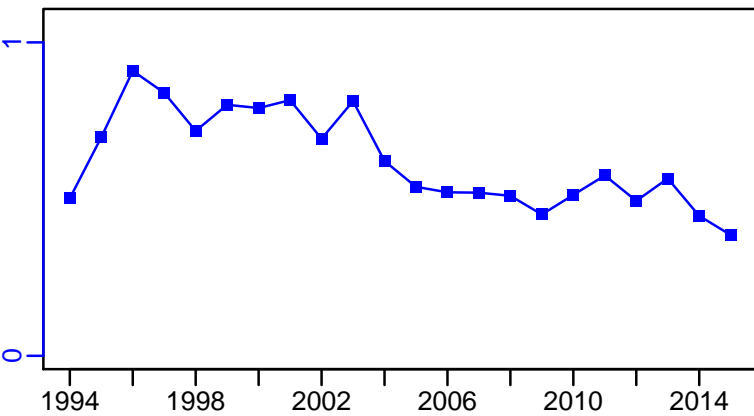
SSB-MT (1993–2016–ICESIMP2016)



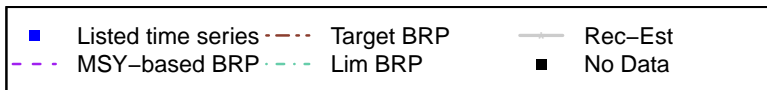
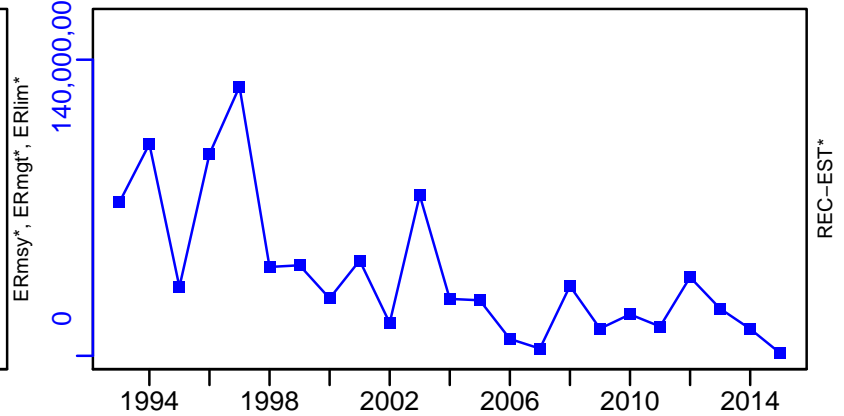
F-1/yr (1993–2016–ICESIMP2016)



ER-calc-ratio (1993–2016–ICESIMP2016)

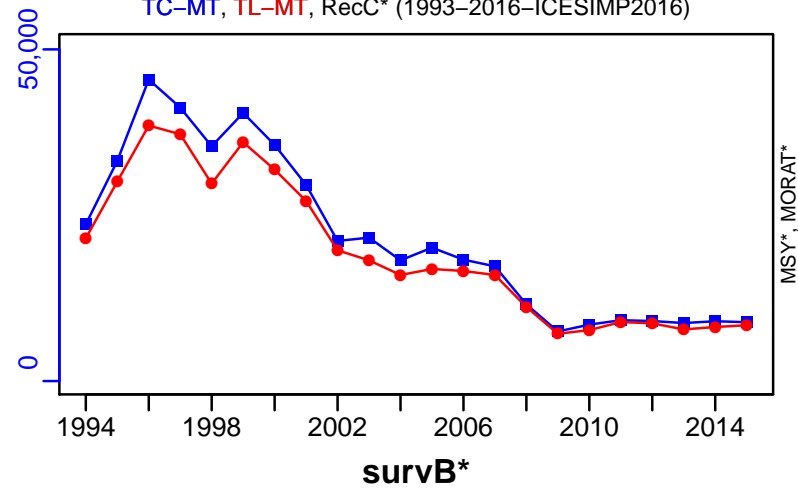


R-E00 (1993–2016–ICESIMP2016)



Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Atlantic cod Baltic Areas 25-32 [CODBA2532]

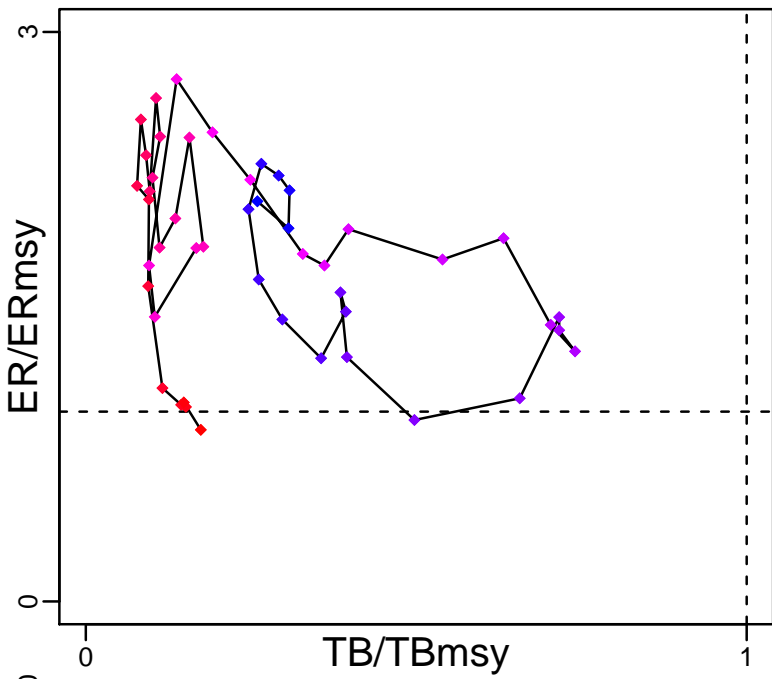
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODBA2532-1965-2016-ICESIMP2016
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	1,338,007
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2012	0.3
ERmsy	ERmsy-est-ratio	2013	0.24
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	88,200
Fmgt	Fmgt-1/yr	2013	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	324,070
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2013	63,000
Flim	-	-	-
ERlim	-	-	-

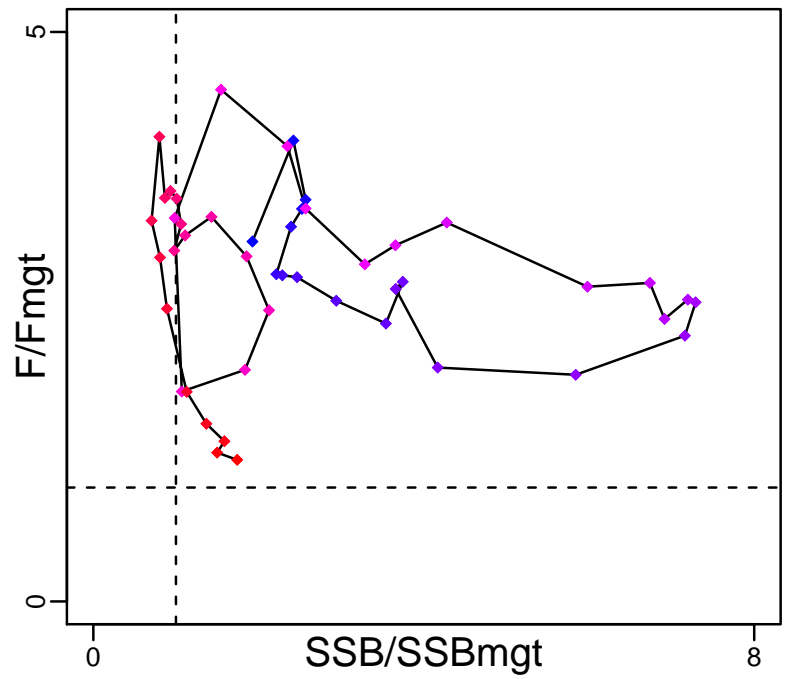
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	233,000	-	-
SSB	SSB-MT	2013	180,000	-	-
TN	-	-	-	-	-
R	R-E00	2013	2.54×10^8	-	2
F	F-1/yr	2013	0	-	4 to 6
ER	ER-ratio	2016	0	-	-
TC	TC-MT	2016	49,600		
TL	TL-MT	2016	37,300		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.17		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2012	0.86		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2013	0.9		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	2.04		
F/Fmgt	F-1/yr/Fmgt-1/yr	2013	1.24		
ER/ERmgt	-	-	-		

Atlantic cod Baltic Areas 25–32 [CODBA2532]

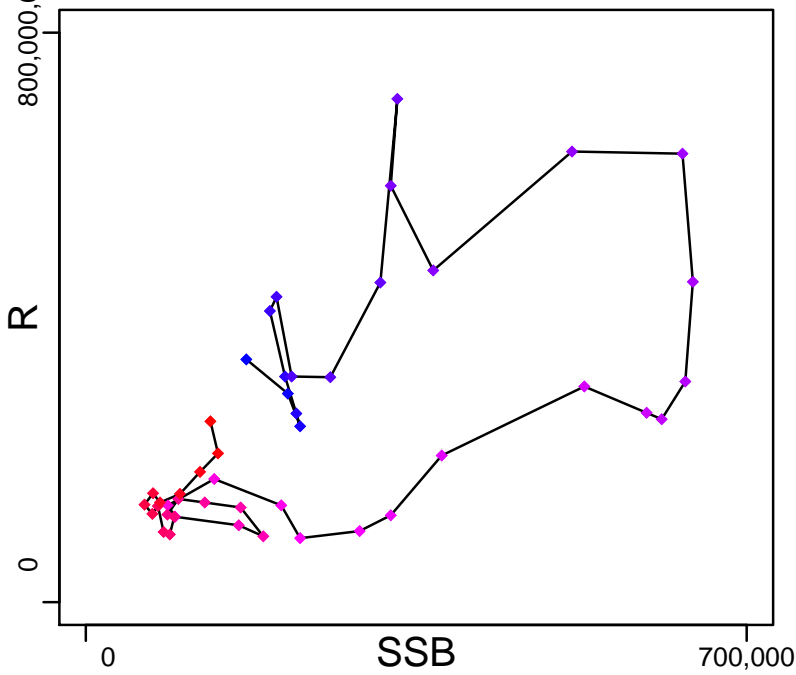
Kobe MSYpref (1964–2013–ICESIMP2016)



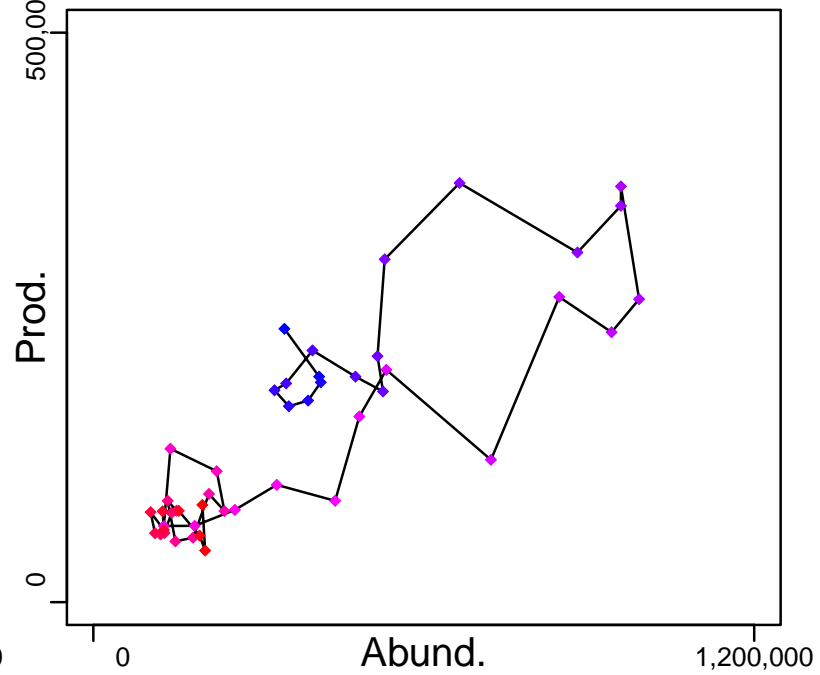
Kobe MGTpref (1964–2013–ICESIMP2016)



Spawner Recruit (1964–2013–ICESIMP2016)

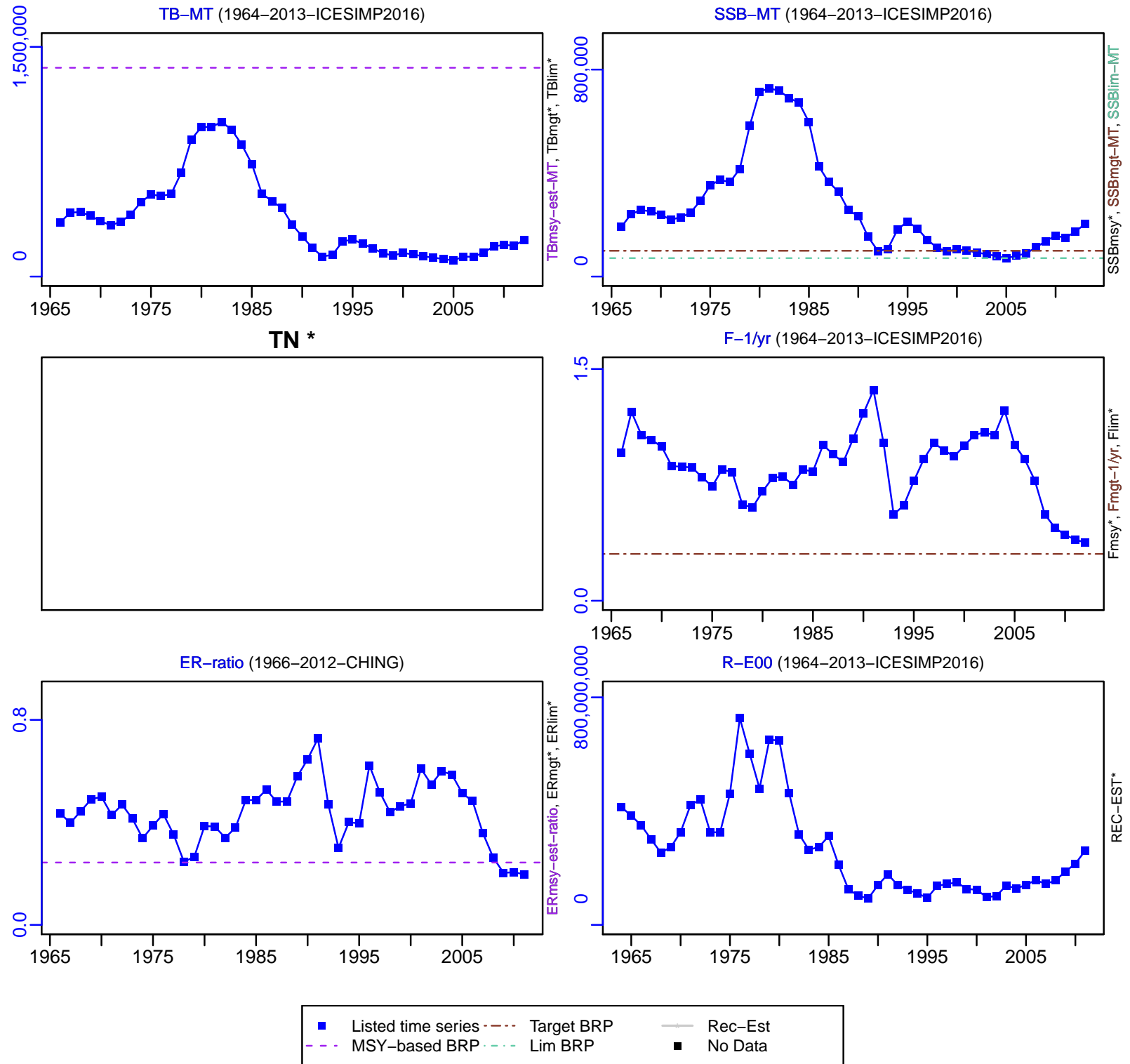


Production (1964–2013–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

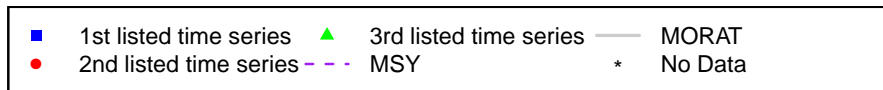
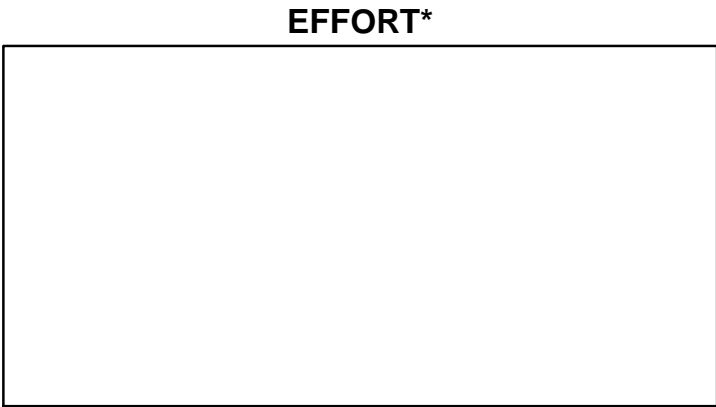
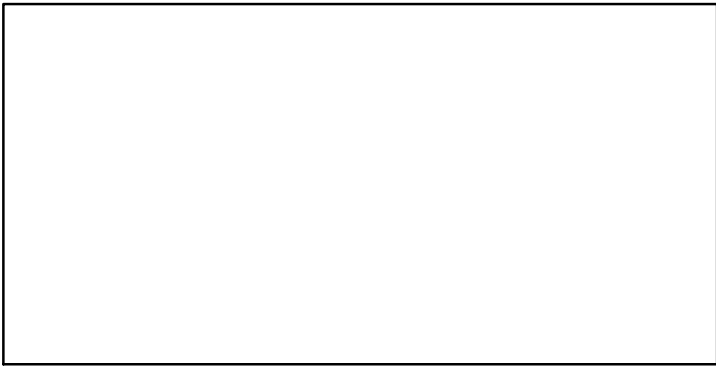
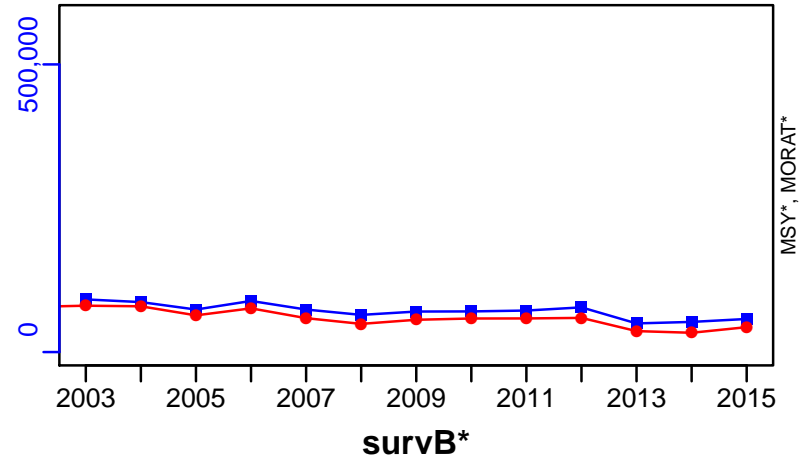
Atlantic cod Baltic Areas 25-32 [CODBA2532]



Atlantic cod Baltic Areas 25–32 [CODBA2532]

TC–MT, TL–MT, RecC* (1965–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



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

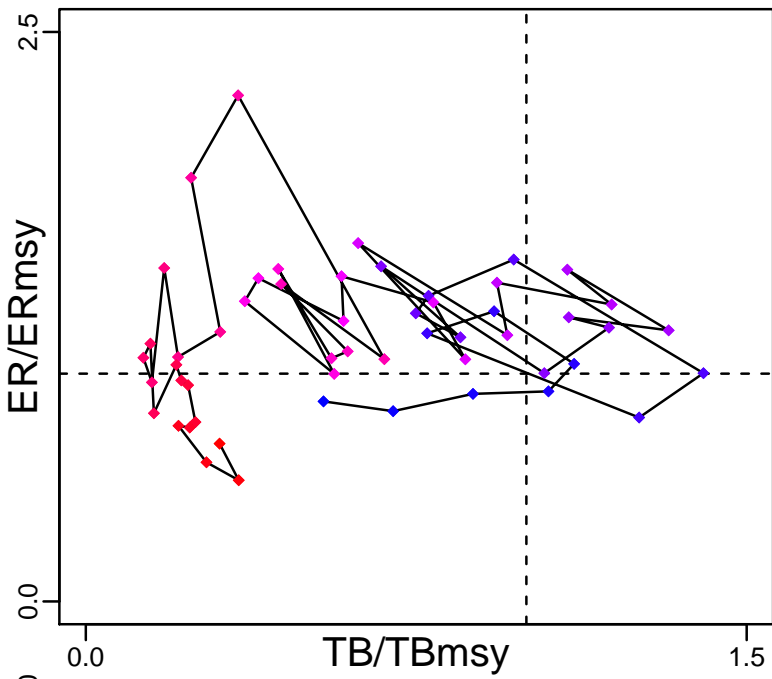
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGNSSK-CODIIIaW-IV-VIId-1962-2016-ICESIMP2016
Area	IIIa (west) and IV-VIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	948,996
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.33
ERmsy	ERmsy-est-ratio	2016	0.26
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	165,000
Fmgt	Fmgt-1/yr	2016	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	248,733
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2016	118,000
Flim	Flim-1/yr	2016	0.58
ERlim	-	-	-

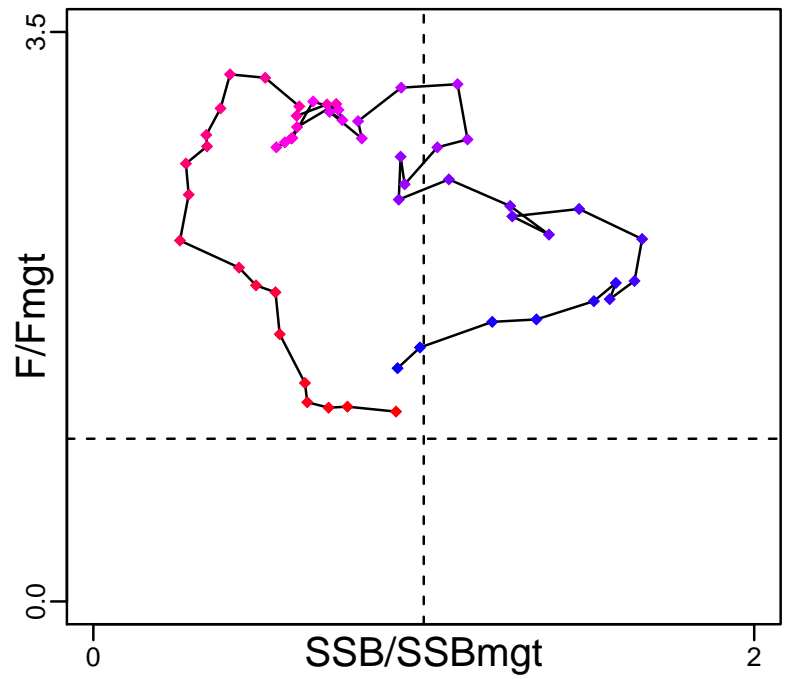
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.3	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.69	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

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

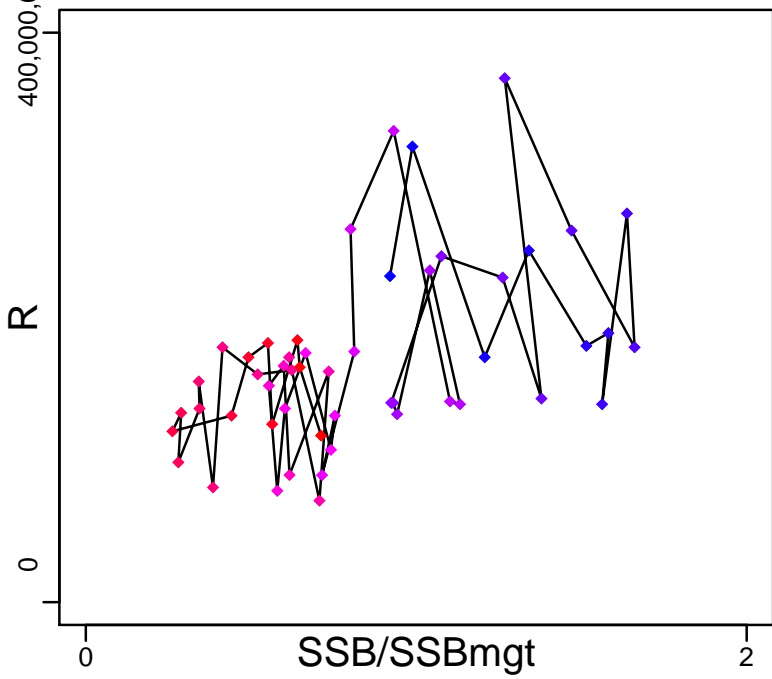
Kobe MSYpref (1962–2016–ICESIMP2016)



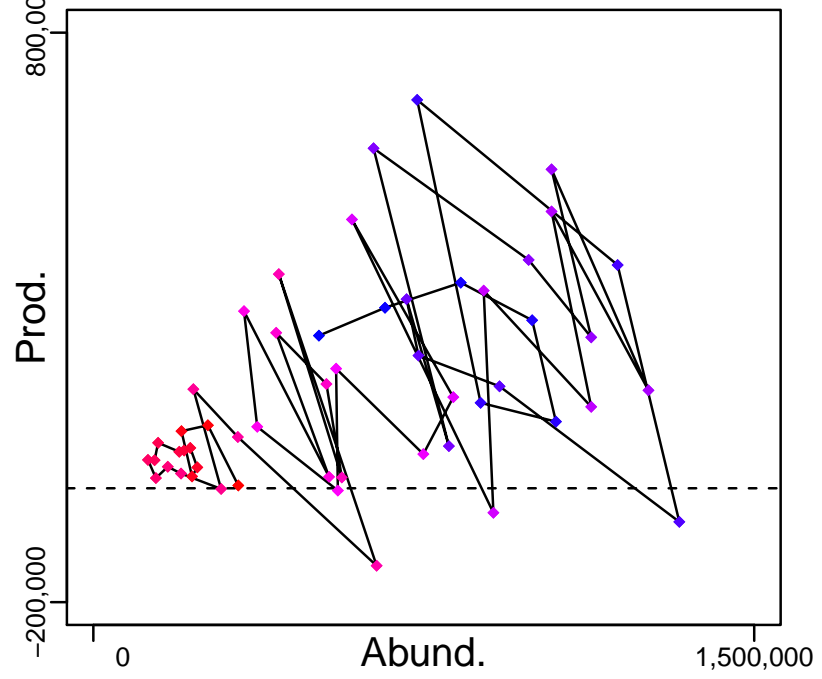
Kobe MGTpref (1962–2016–ICESIMP2016)



Spawner Recruit (1962–2016–ICESIMP2016)



Production (1962–2016–ICESIMP2016)

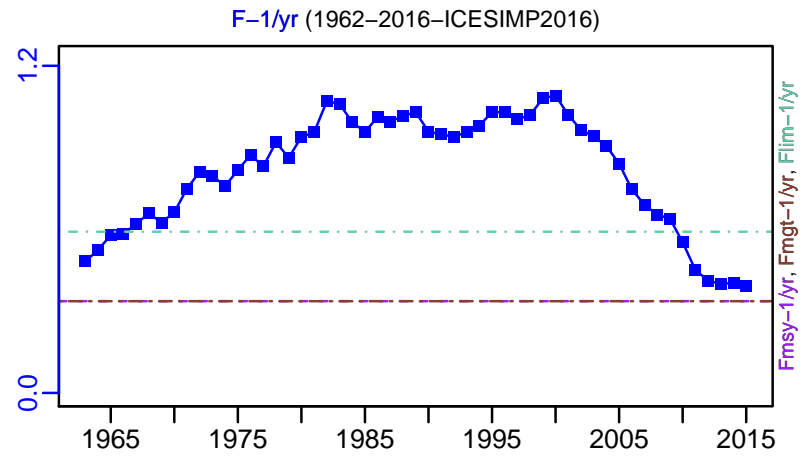
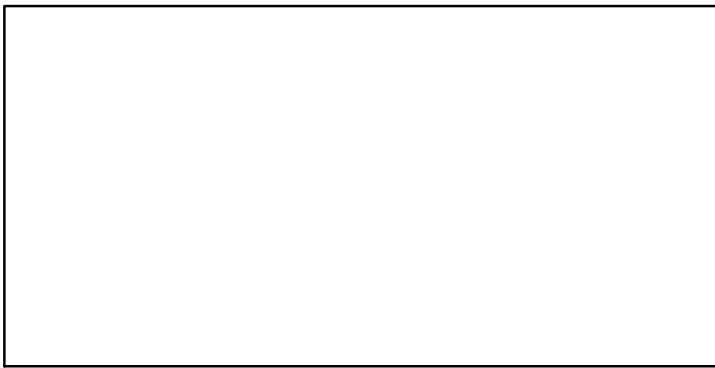
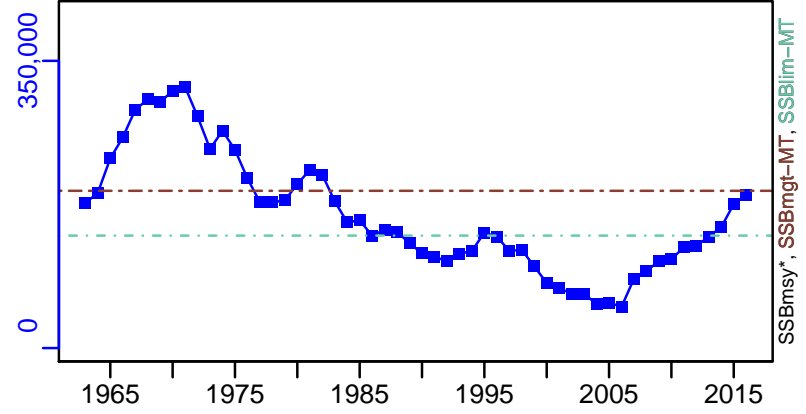
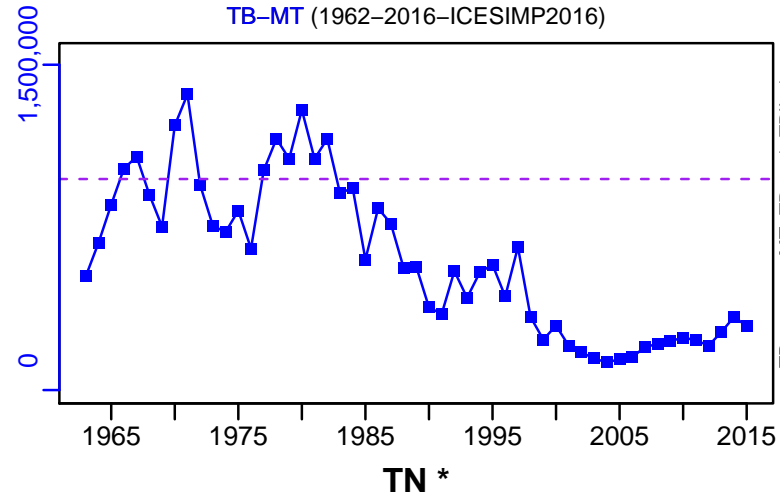


◆ Start Year ◆ End Year * No Data

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

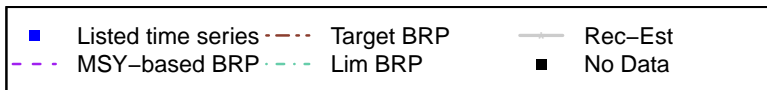
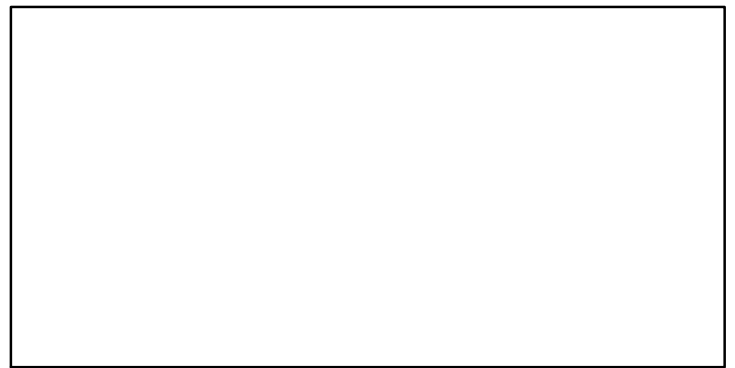
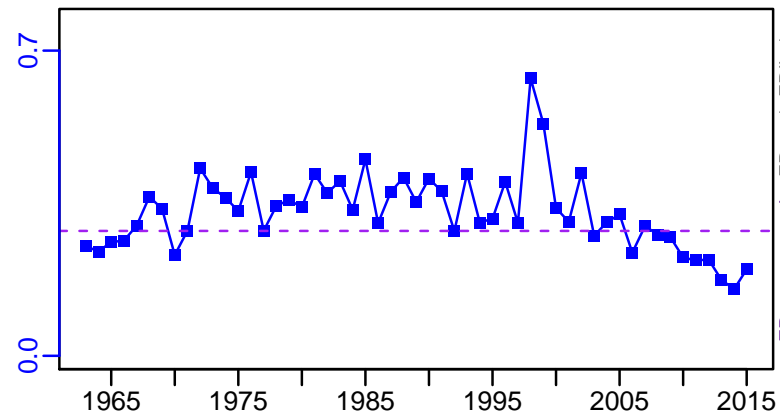
TB-MT (1962–2016–ICESIMP2016)

SSB-MT (1962–2016–ICESIMP2016)



ER-calc-ratio (1962–2016–ICESIMP2016)

Recruits*

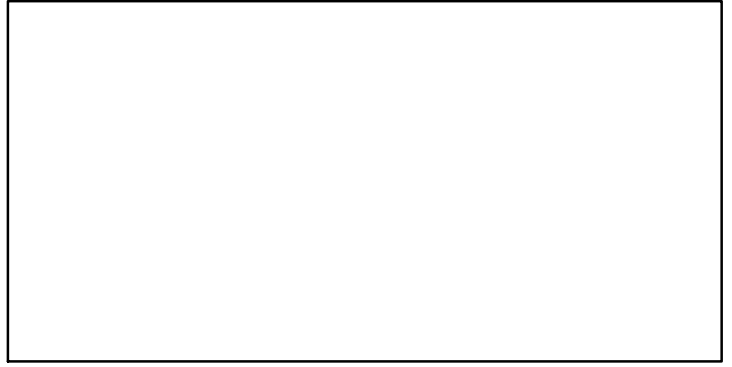


Atlantic cod IIIa (west) and IV–VIIId [CODIIIaW–IV–VIIId]

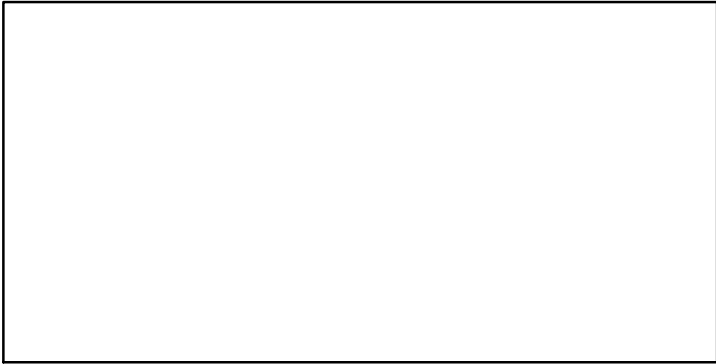
TC*, TL*, RecC*



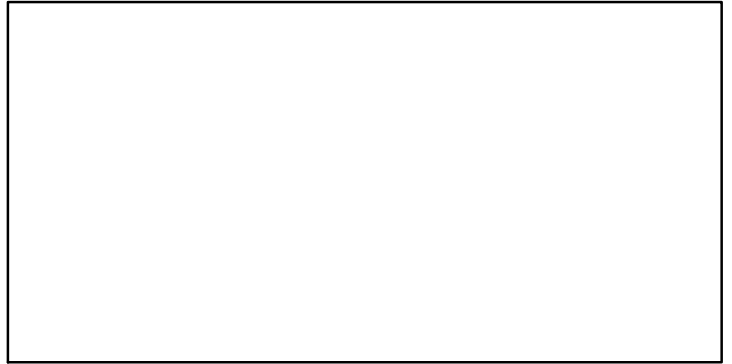
TAC*, Cpair*, Cadv*



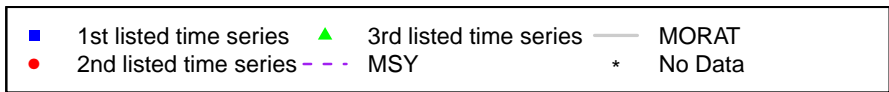
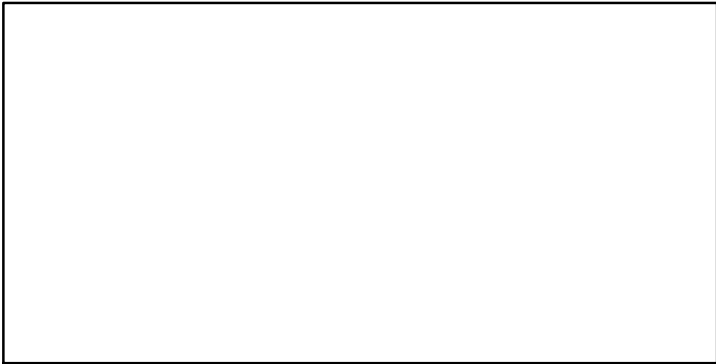
survB*



CPUE*



EFFORT*



Atlantic cod Irish Sea [CODIS]

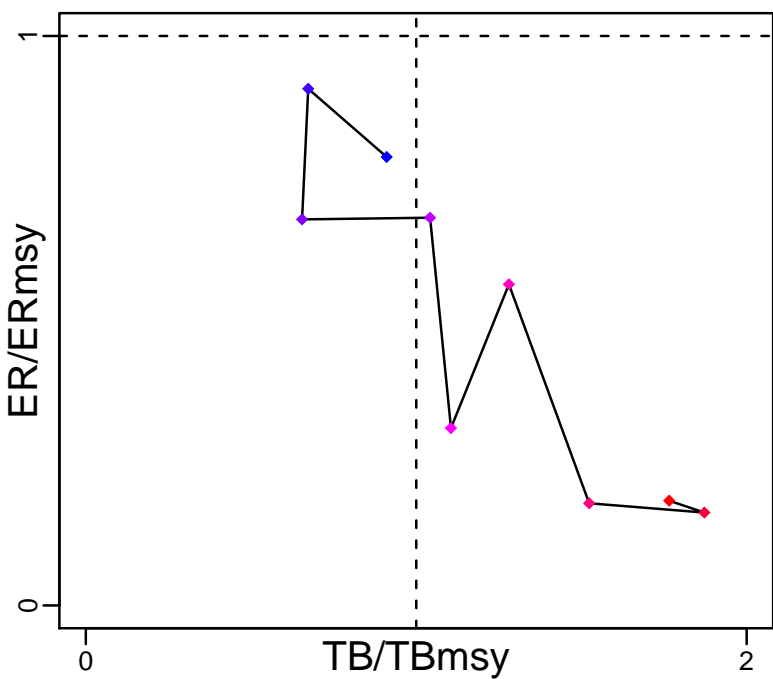
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODIS-1967-2016-ICESIMP2016
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	3742
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.37
ERmsy	ERmsy-est-ratio	2016	0.32
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	10,000
Fmgt	Fmgt-1/yr	2016	0.37
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1186
M	M-1/yr	2010	0.2
TBlim	TBlim-MT	2010	6000
SSBlim	SSBlim-MT	2016	6000
Flim	Flim-1/yr	2016	1.33
ERlim	-	-	-

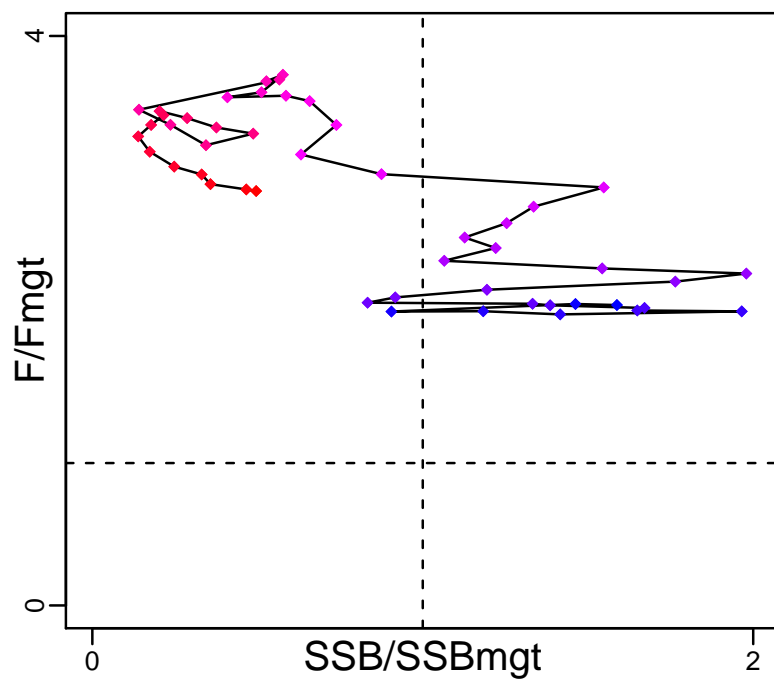
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	6610	-	-
SSB	SSB-MT	2016	5270	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,130,000	-	1
F	F-1/yr	2016	1	-	2 to 4
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	385		
TL	TL-MT	2016	161		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.77		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	2.91		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.53		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	2.91		
ER/ERmgt	-	-	-		

Atlantic cod Irish Sea [CODIS]

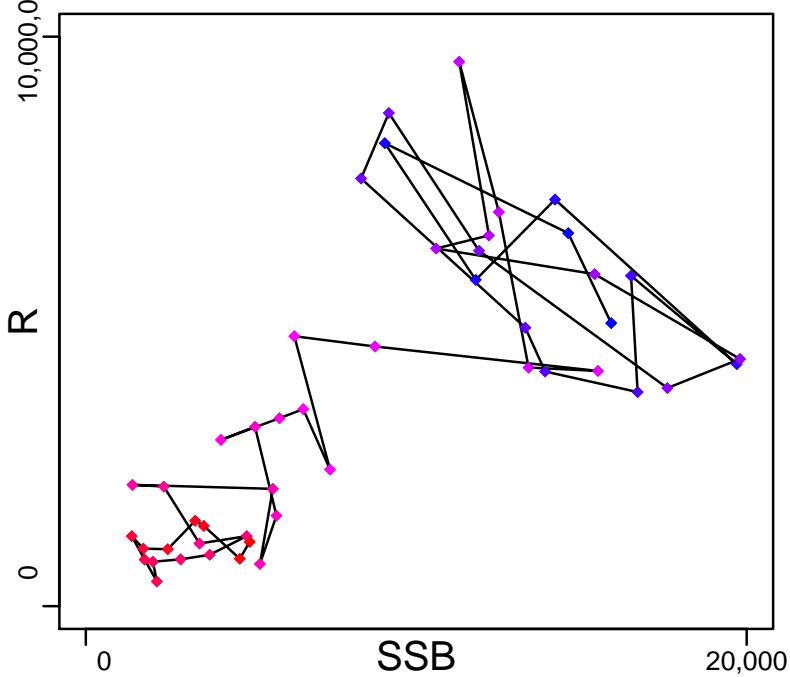
Kobe MSYpref (1967–2016–ICESIMP2016)



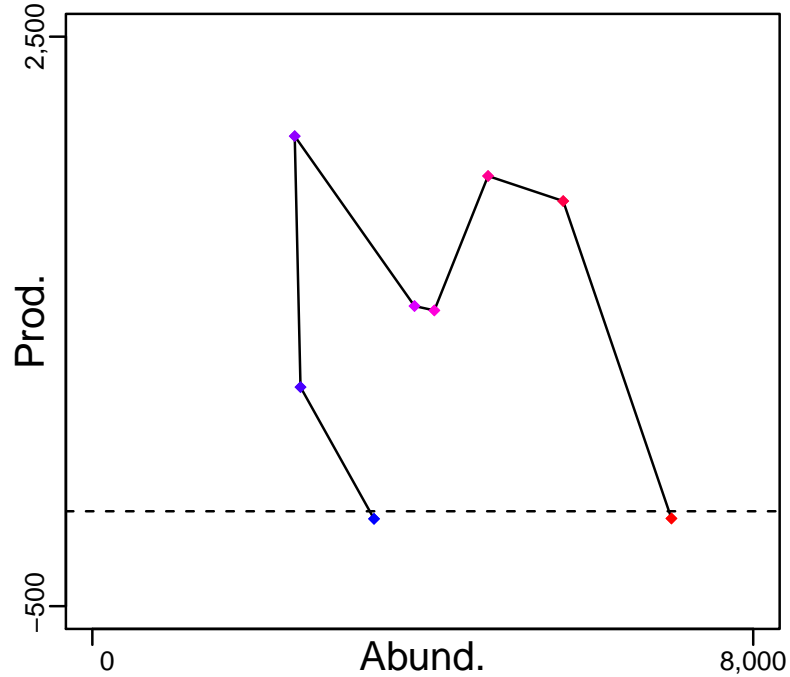
Kobe MGTpref (1967–2016–ICESIMP2016)



Spawner Recruit (1967–2016–ICESIMP2016)



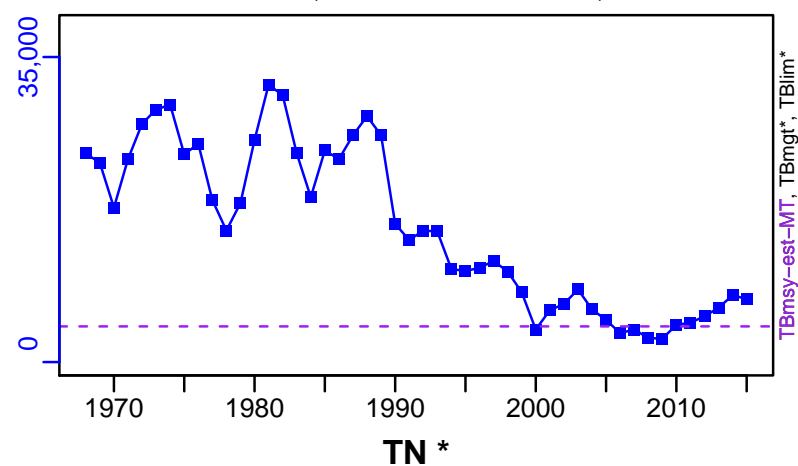
Production (1967–2016–ICESIMP2016)



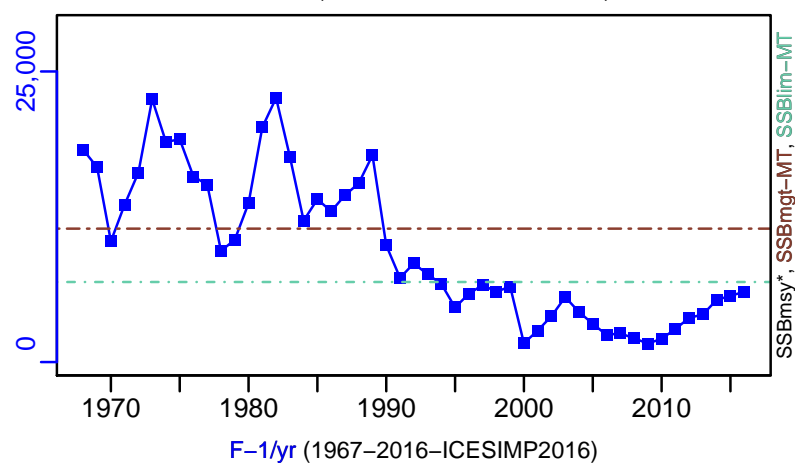
◆ Start Year ◆ End Year * No Data

Atlantic cod Irish Sea [CODIS]

TB-MT (1967–2016–ICESIMP2016)



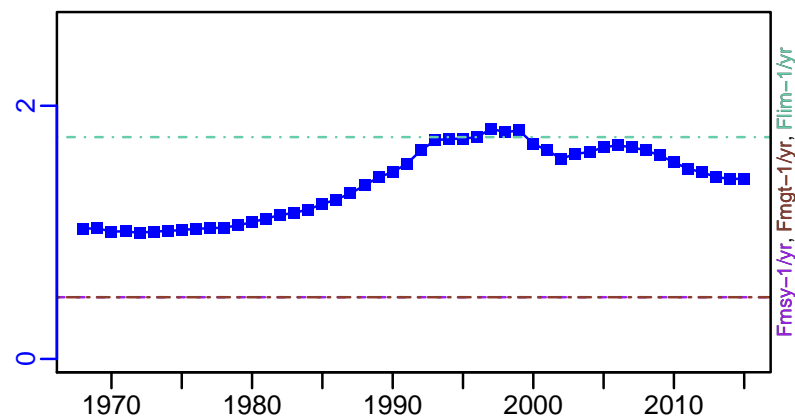
SSB-MT (1967–2016–ICESIMP2016)



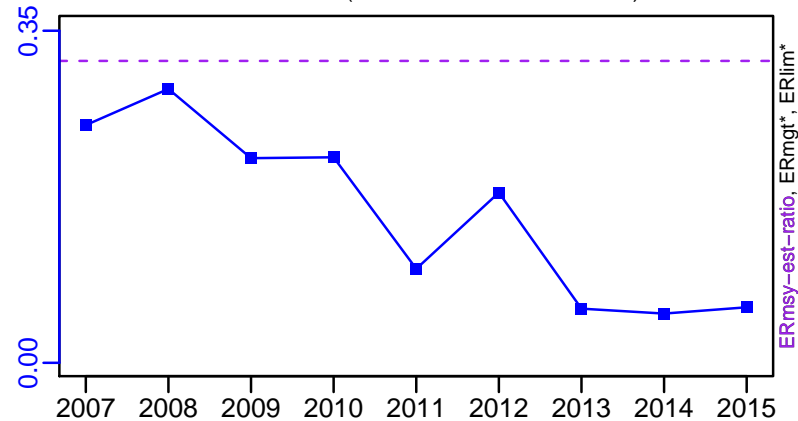
TN *



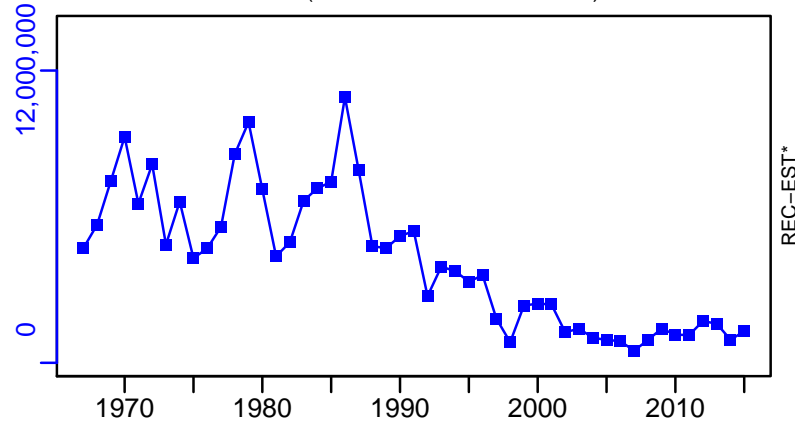
F-1/yr (1967–2016–ICESIMP2016)



ER-calc-ratio (1967–2016–ICESIMP2016)

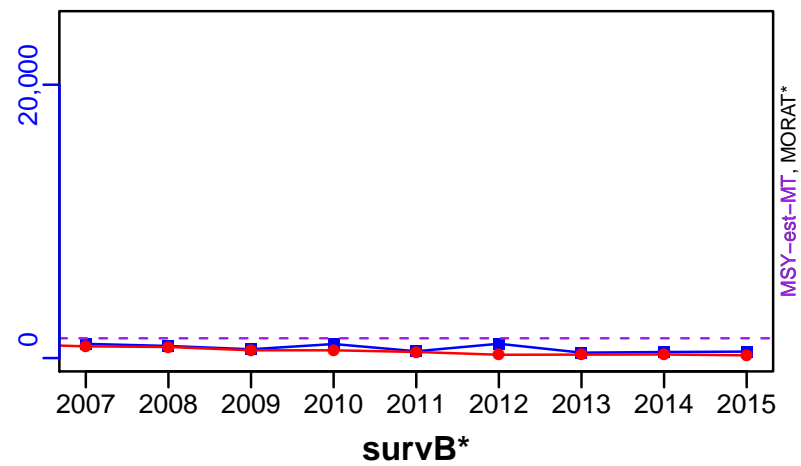


R-E00 (1967–2016–ICESIMP2016)



Atlantic cod Irish Sea [CODIS]

TC-MT, TL-MT, RecC* (1967–2016–ICESIMP2016)



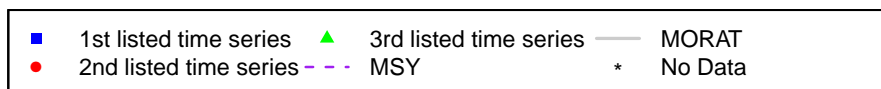
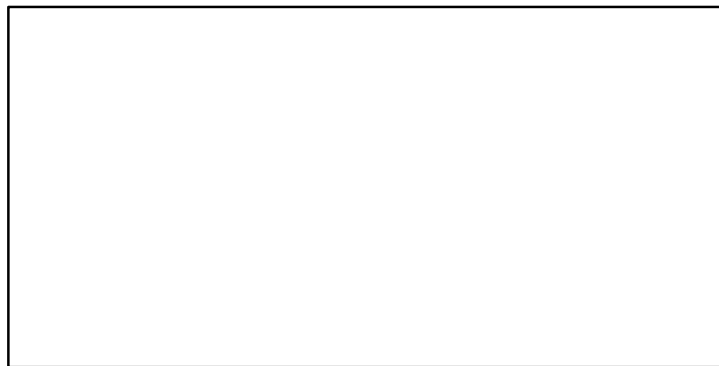
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Atlantic cod Kattegat [CODKAT]

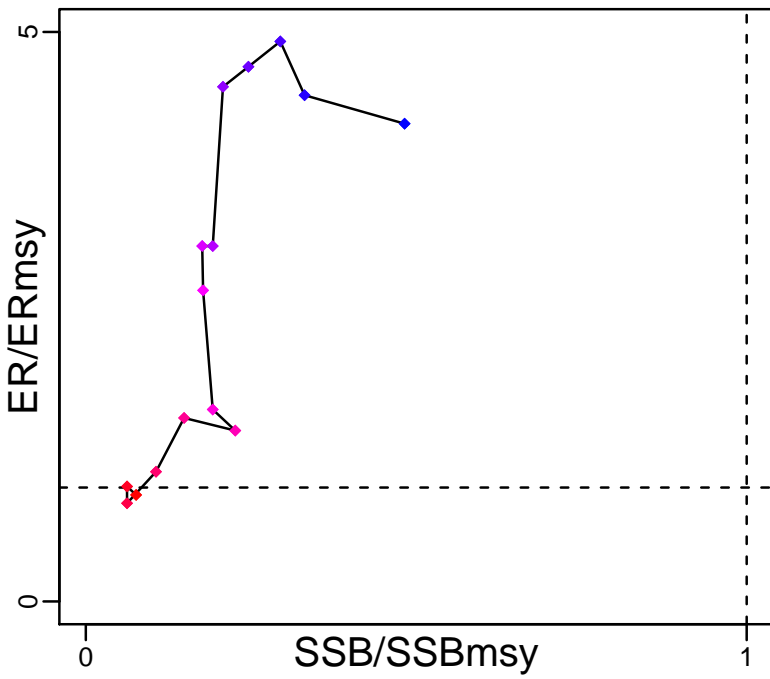
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGBFAS-CODKAT-1996-2016-ICESIMP2016
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2012, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2012	22,596
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2012	0.11
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2015	10,500
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2012	6979
M	-	-	-
TBlim	TBlim-MT	2012	6400
SSBlim	SSBlim-relative	2015	6400
Flim	-	-	-
ERlim	-	-	-

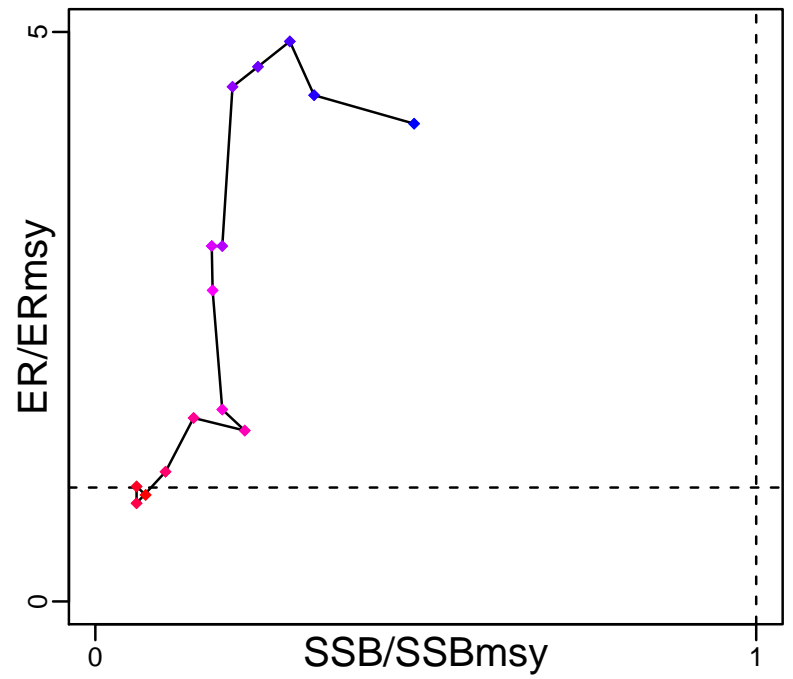
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	2	-	-
TN	-	-	-	-	-
R	R-relative	2016	0	-	1
F	F-relative	2016	0	-	-
ER	ER-ratio	2012	0	-	-
TC	TC-MT	2016	508		
TL	TL-MT	2016	107		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2012	0.1		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2012	0.94		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Kattegat [CODKAT]

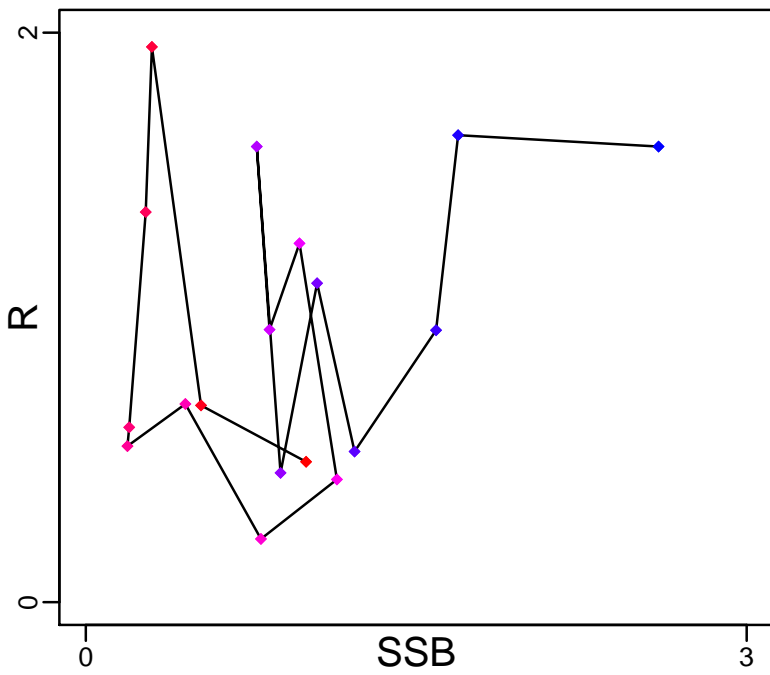
Kobe MSYpref (1971–2012–CHING)



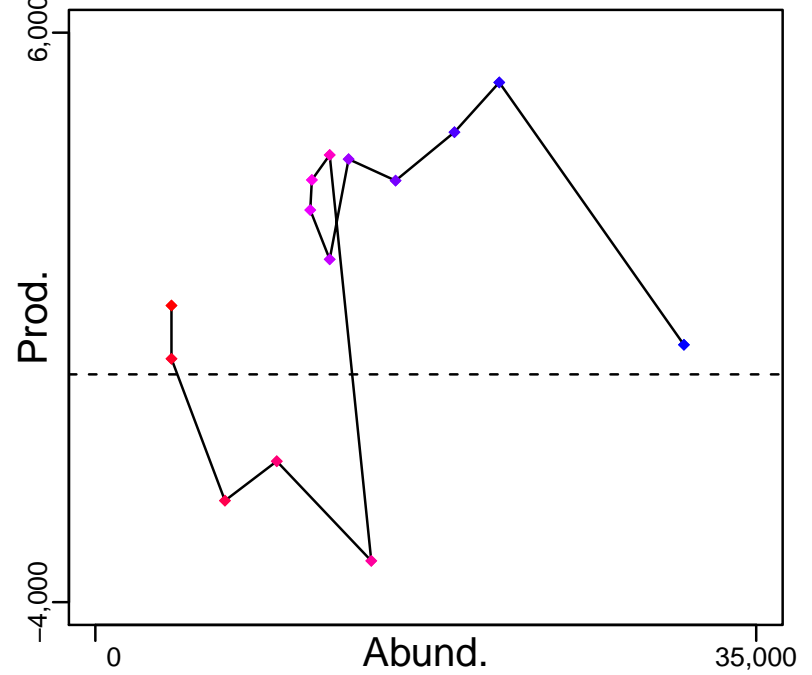
Kobe MGTpref (1971–2012–CHING)



Spawner Recruit (1996–2016–ICESIMP2016)



Production (1971–2012–CHING)



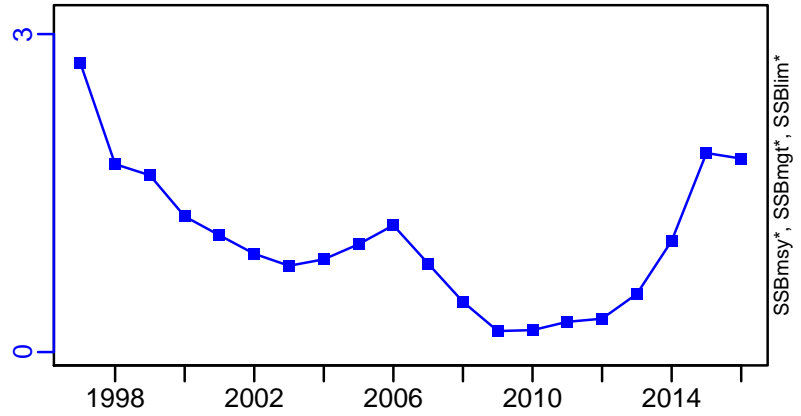
◆ Start Year ◆ End Year * No Data

Atlantic cod Kattegat [CODKAT]

TB*



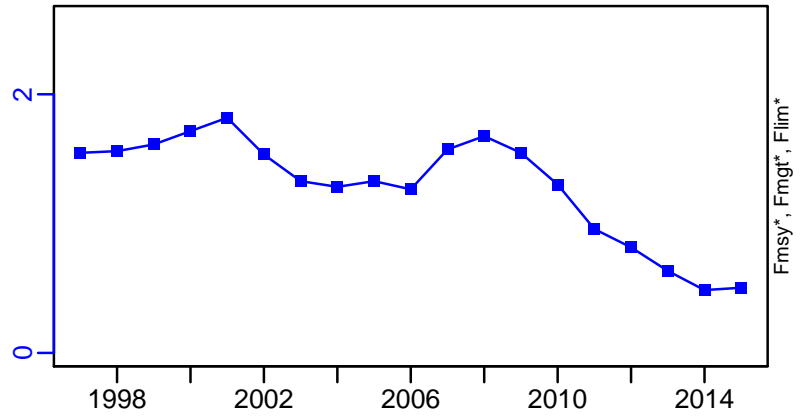
SSB-relative (1996–2016–ICESIMP2016)



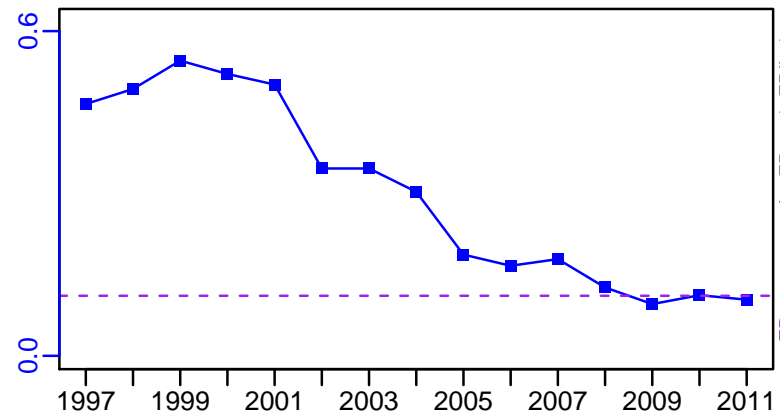
TN *



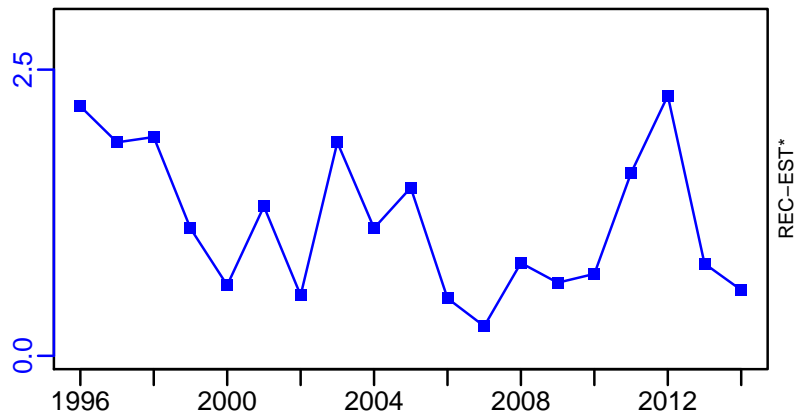
F-relative (1996–2016–ICESIMP2016)



ER-ratio (1971–2012–CHING)

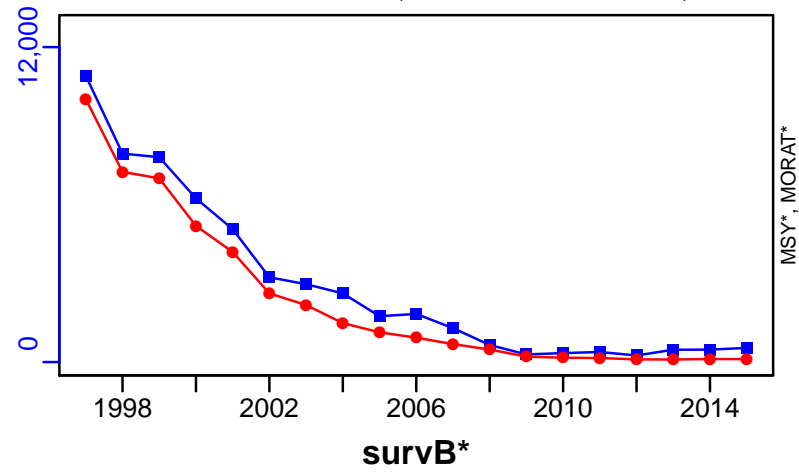


R-relative (1996–2016–ICESIMP2016)



Atlantic cod Kattegat [CODKAT]

TC-MT, TL-MT, RecC* (1996–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Atlantic cod West of Scotland [CODVla]

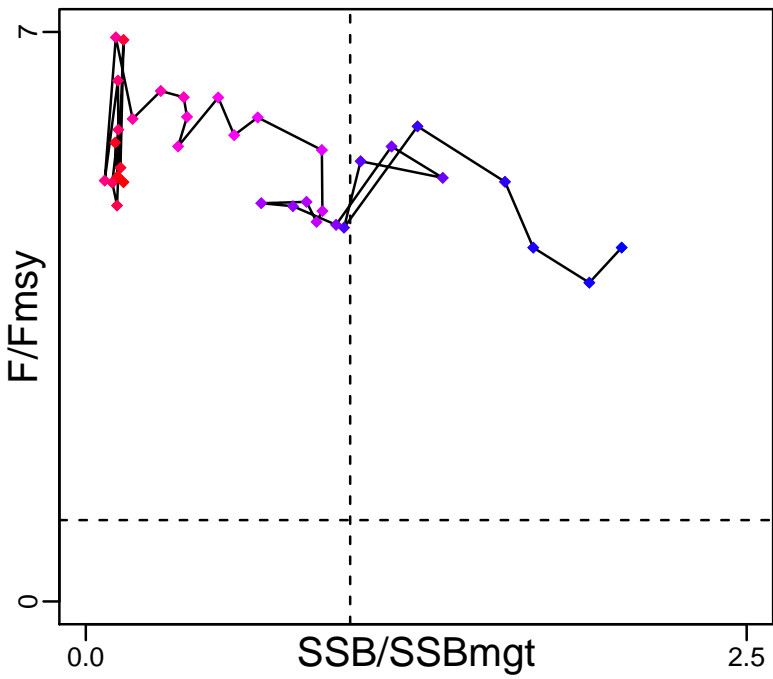
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVla-1981-2016-ICESIMP2016
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	95,526
SSBmsy	SSBmsy-pr-MT	2012	22,000
Fmsy	Fmsy-1/yr	2016	0.17
ERmsy	ERmsy-est-ratio	2013	0.21
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	20,000
Fmgt	Fmgt-1/yr	2016	0.17
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2013	19,996
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	14,000
Flim	Flim-1/yr	2016	0.82
ERlim	-	-	-

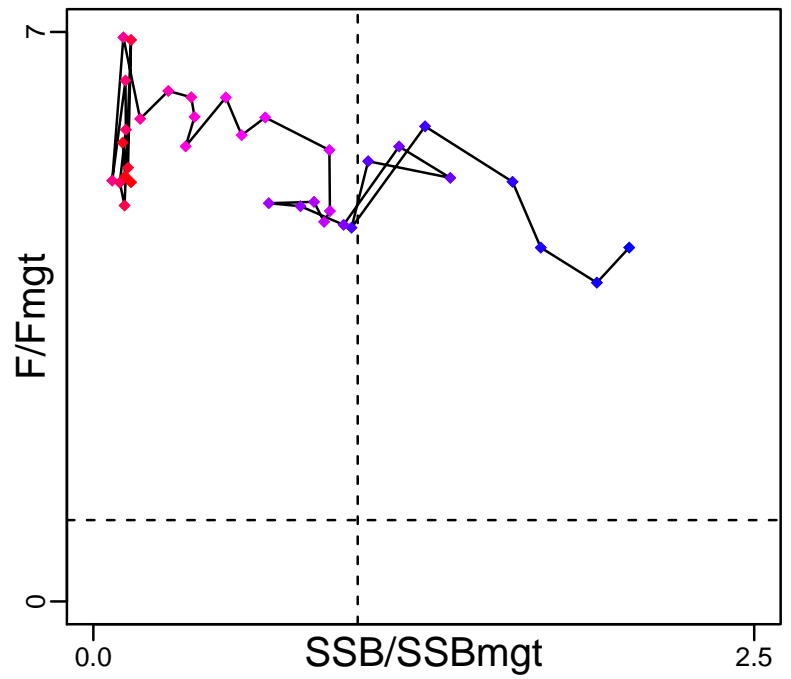
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	4270	-	-
SSB	SSB-MT	2016	2680	-	-
TN	-	-	-	-	-
R	R-E00	2016	3,780,000	-	-
F	F-1/yr	2016	1	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	1750		
TL	TL-MT	2016	770		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.03		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2012	0.17		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	5.15		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2013	2.31		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.13		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	5.15		
ER/ERmgt	-	-	-		

Atlantic cod West of Scotland [CODVla]

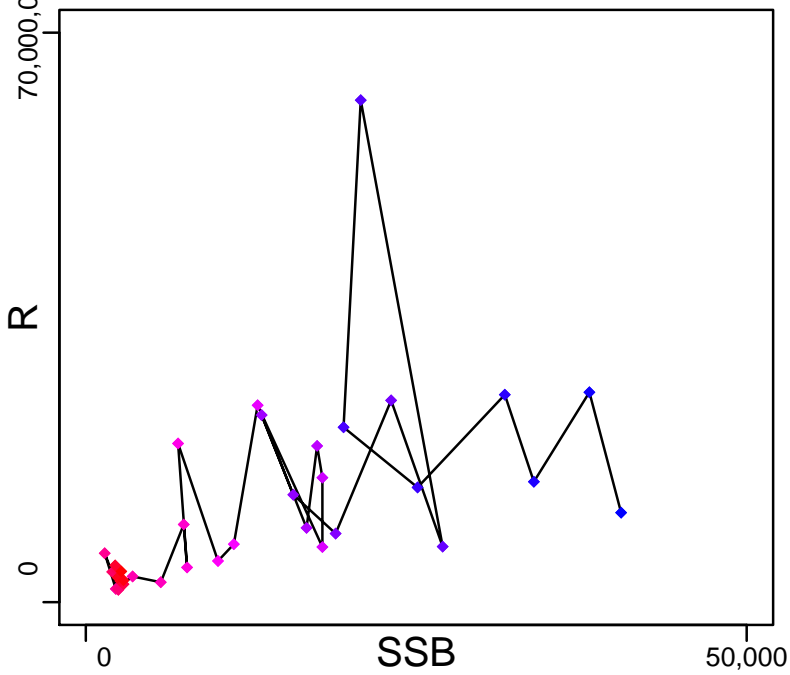
Kobe MSYpref (1981–2016–ICESIMP2016)



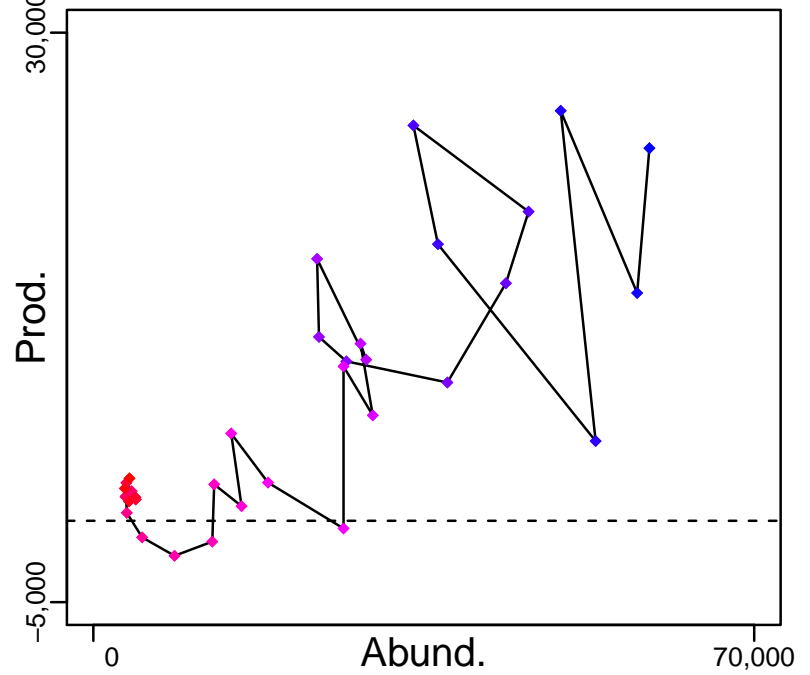
Kobe MGTpref (1981–2016–ICESIMP2016)



Spawner Recruit (1981–2016–ICESIMP2016)



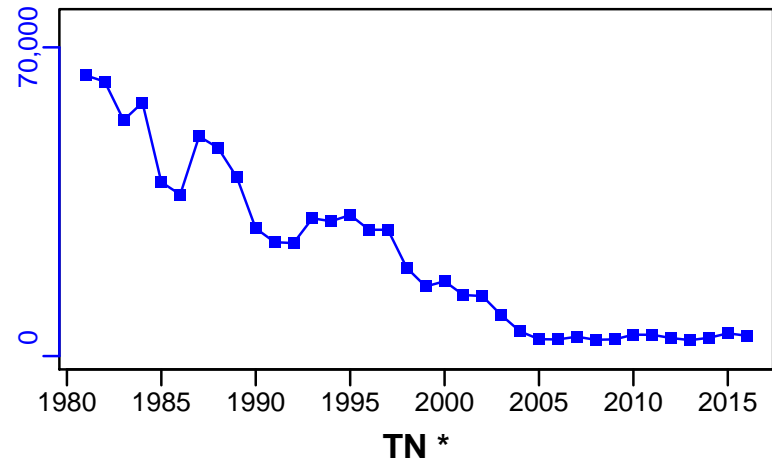
Production (1981–2016–ICESIMP2016)



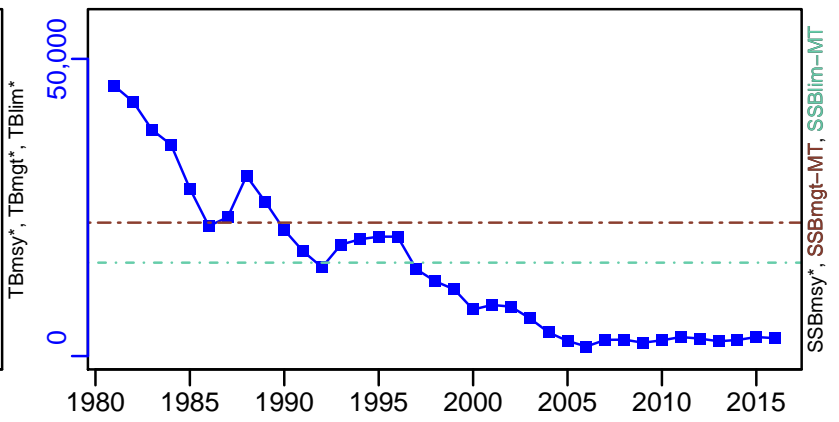
◆ Start Year ◆ End Year * No Data

Atlantic cod West of Scotland [CODVla]

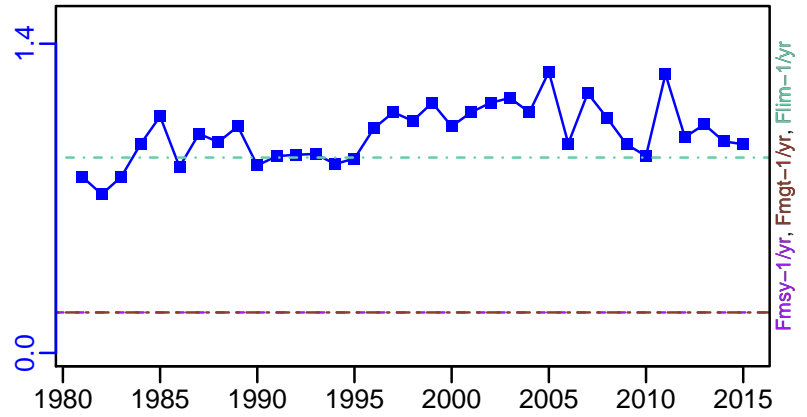
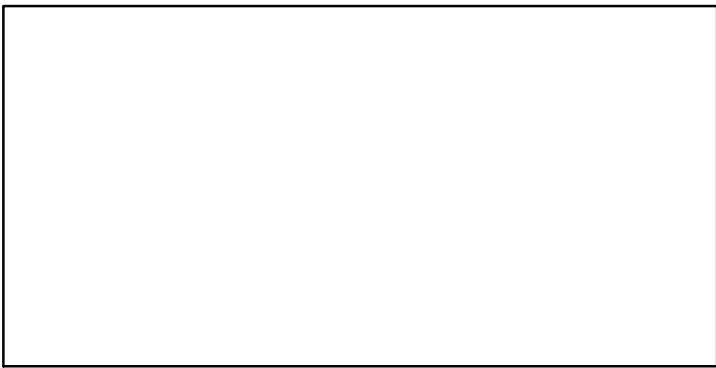
TB-MT (1981–2016–ICESIMP2016)



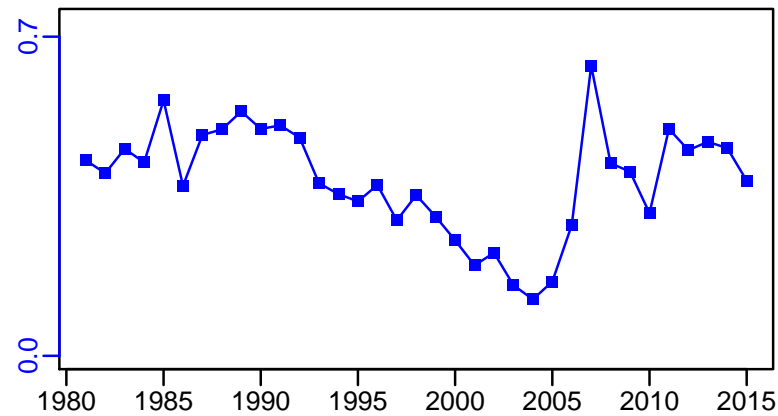
SSB-MT (1981–2016–ICESIMP2016)



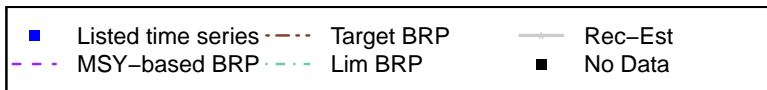
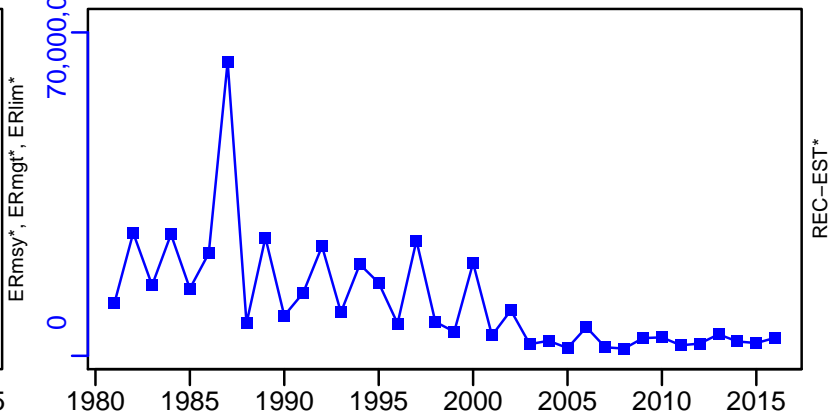
F-1/yr (1981–2016–ICESIMP2016)



ER-calc-ratio (1981–2016–ICESIMP2016)



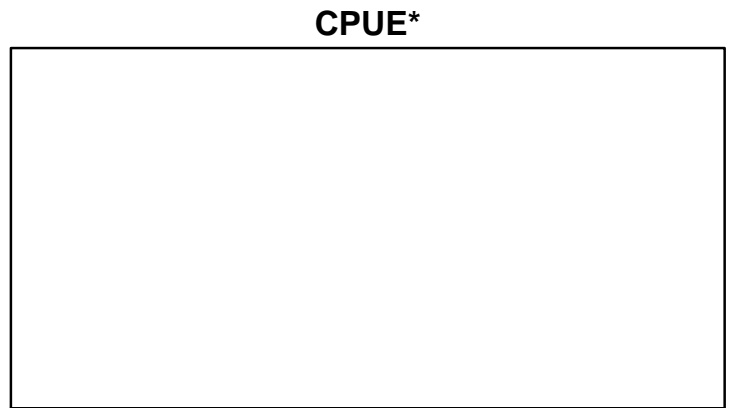
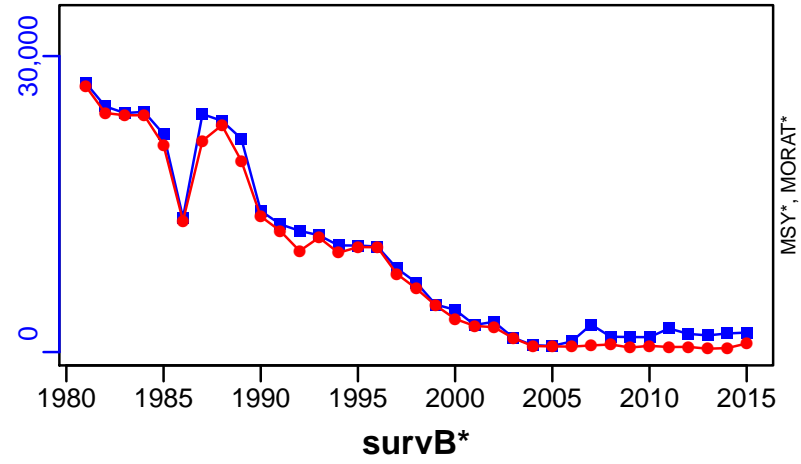
R-E00 (1981–2016–ICESIMP2016)



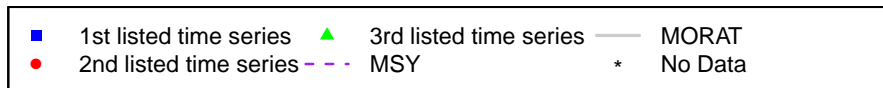
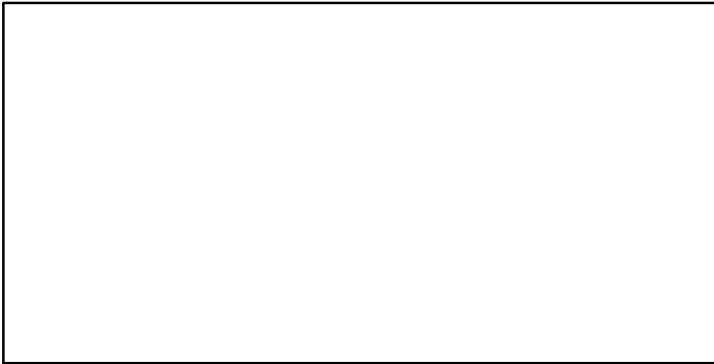
Atlantic cod West of Scotland [CODVla]

TC-MT, TL-MT, RecC* (1981–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Atlantic Cod Celtic Sea [CODVllek]

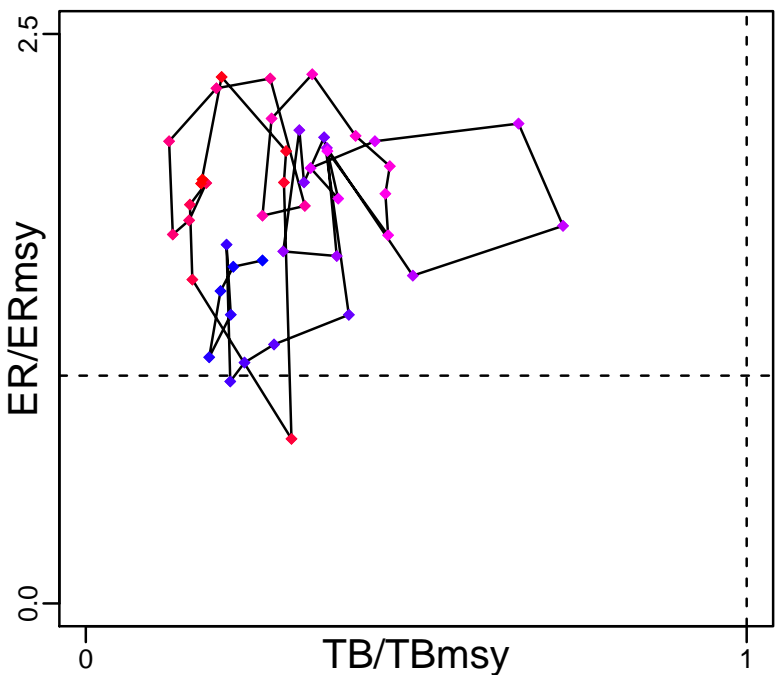
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	WGCSE-CODVllek-1970-2016-ICESIMP2016
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	57,397
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.35
ERmsy	ERmsy-est-ratio	2016	0.25
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	10,300
Fmgt	Fmgt-1/yr	2016	0.35
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	10,300
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	7300
Flim	Flim-1/yr	2016	0.8
ERlim	-	-	-

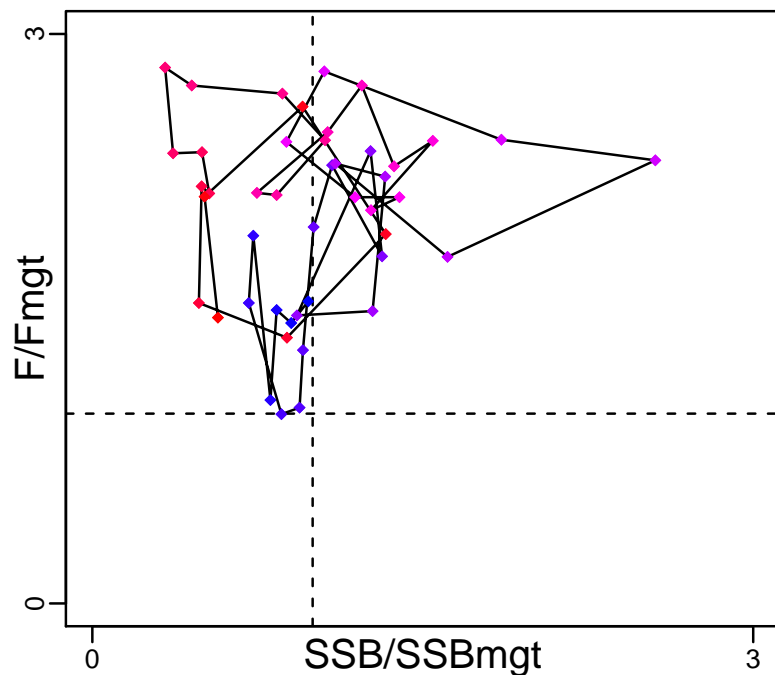
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	10,100	-	-
SSB	SSB-MT	2016	8040	-	-
TN	-	-	-	-	-
R	R-E00	2016	2,740,000	-	1
F	F-1/yr	2016	1	-	2 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	4720		
TL	TL-MT	2016	4150		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.18		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.51		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.86		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.78		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.51		
ER/ERmgt	-	-	-		

Atlantic Cod Celtic Sea [CODVllek]

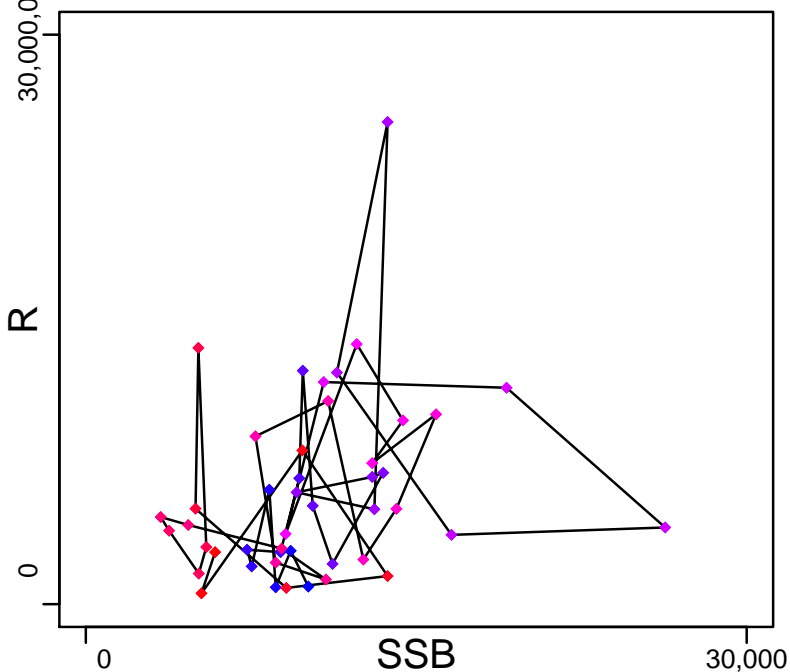
Kobe MSYpref (1970–2016–ICESIMP2016)



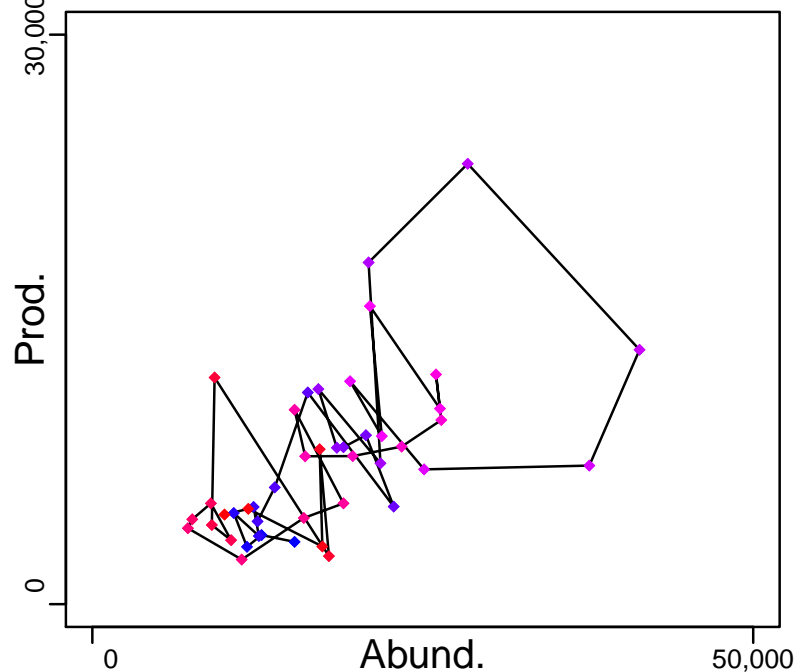
Kobe MGTpref (1970–2016–ICESIMP2016)



Spawner Recruit (1970–2016–ICESIMP2016)

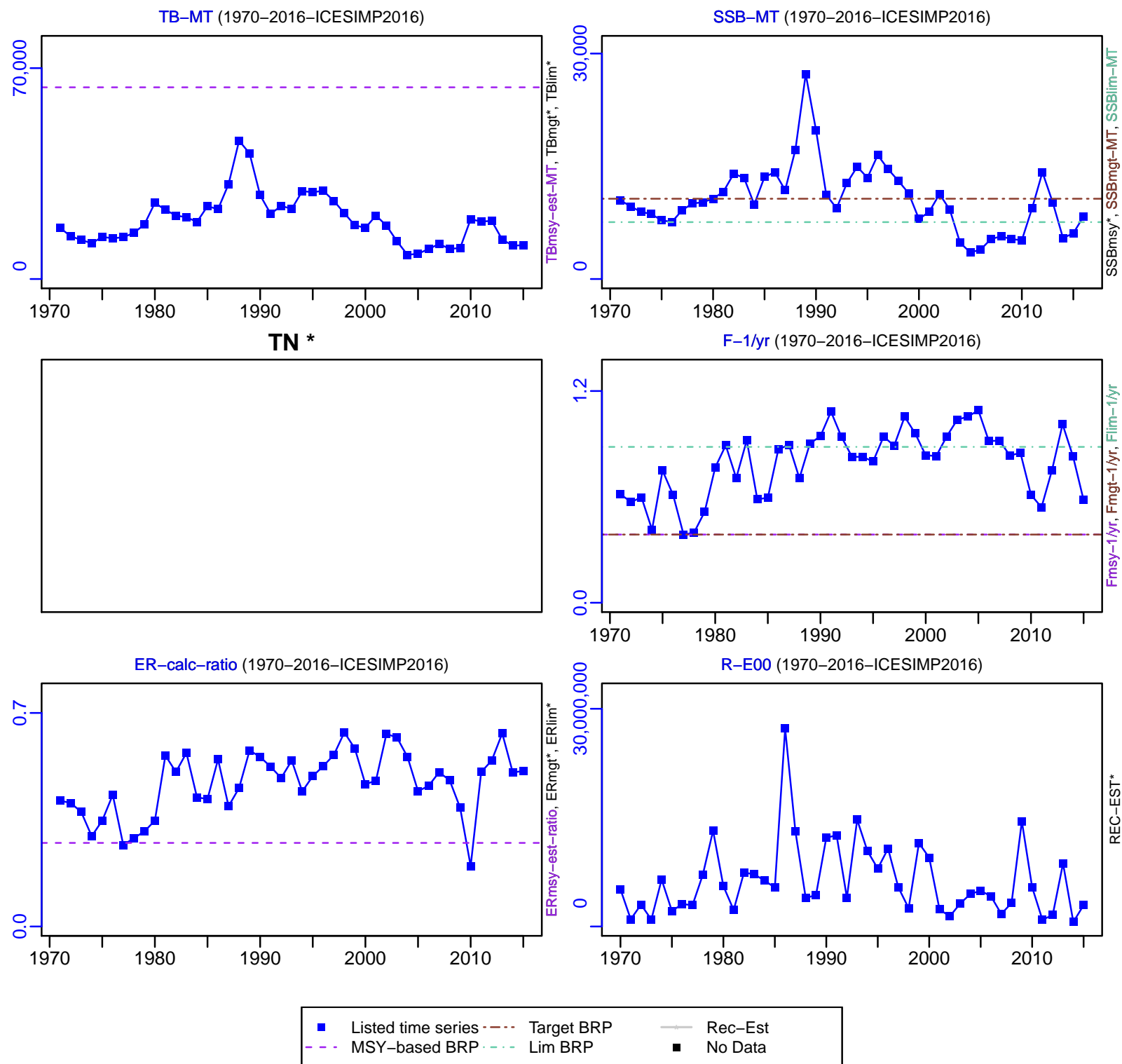


Production (1970–2016–ICESIMP2016)



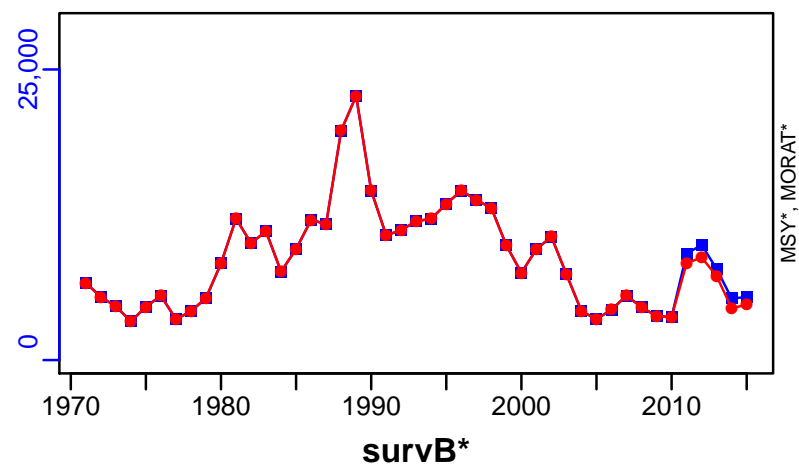
◆ Start Year ◆ End Year * No Data

Atlantic Cod Celtic Sea [CODVilek]



Atlantic Cod Celtic Sea [CODVllek]

TC-MT, TL-MT, RecC* (1970–2016–ICESIMP2016)



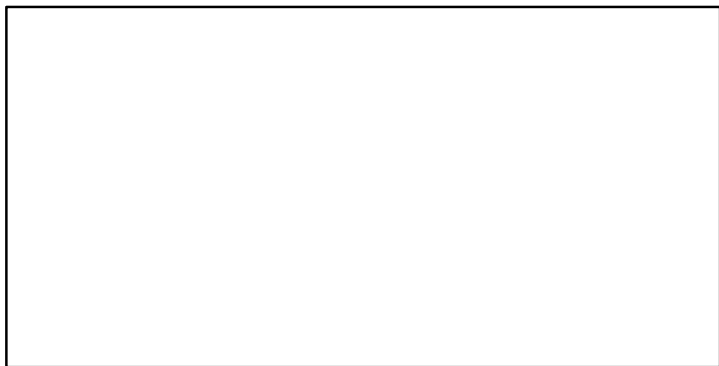
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Tusk Va and XIV [CUSKVa-XIV]

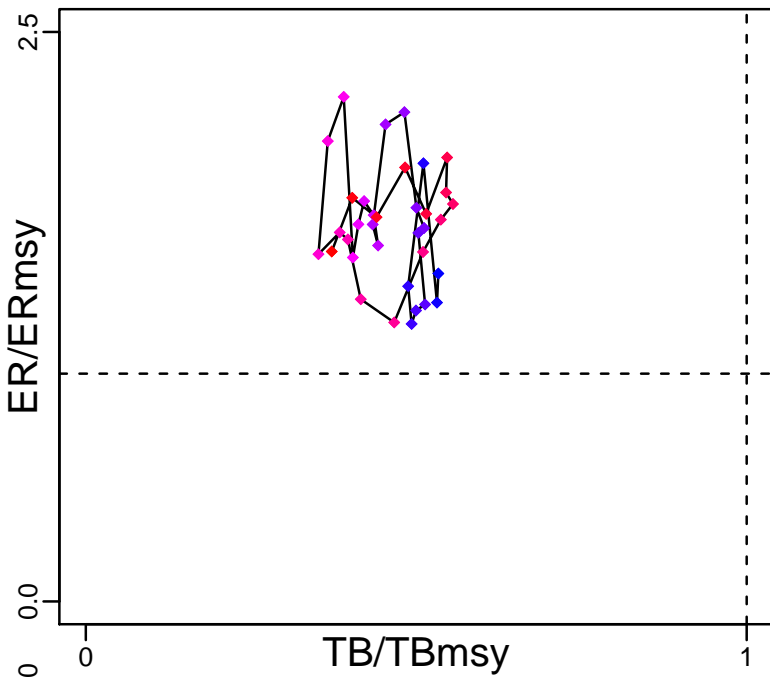
Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVa-XIV-1981-2016-ICESIMP2016
Area	Va and XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2015, 2016

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

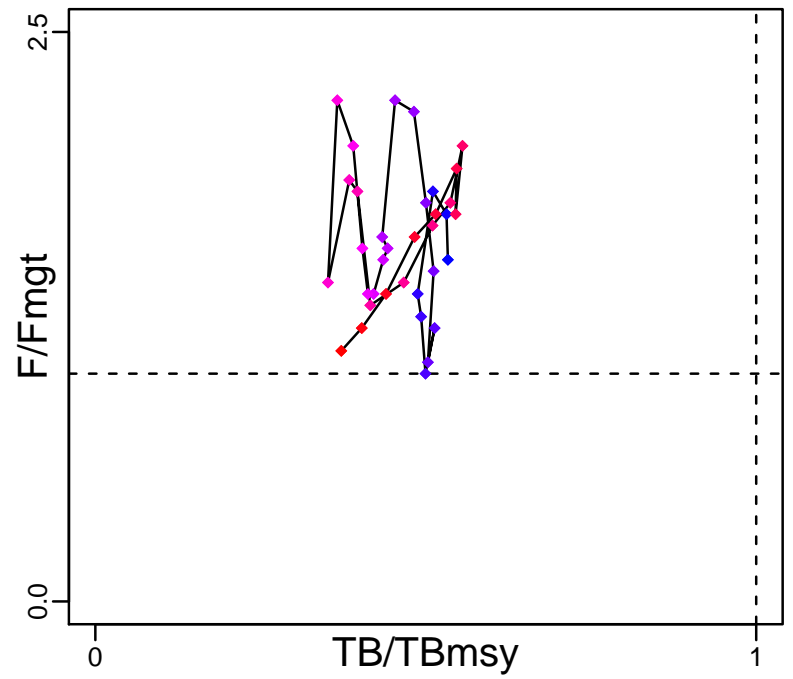
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.37		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.54		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Tusk Va and XIV [CUSKVa–XIV]

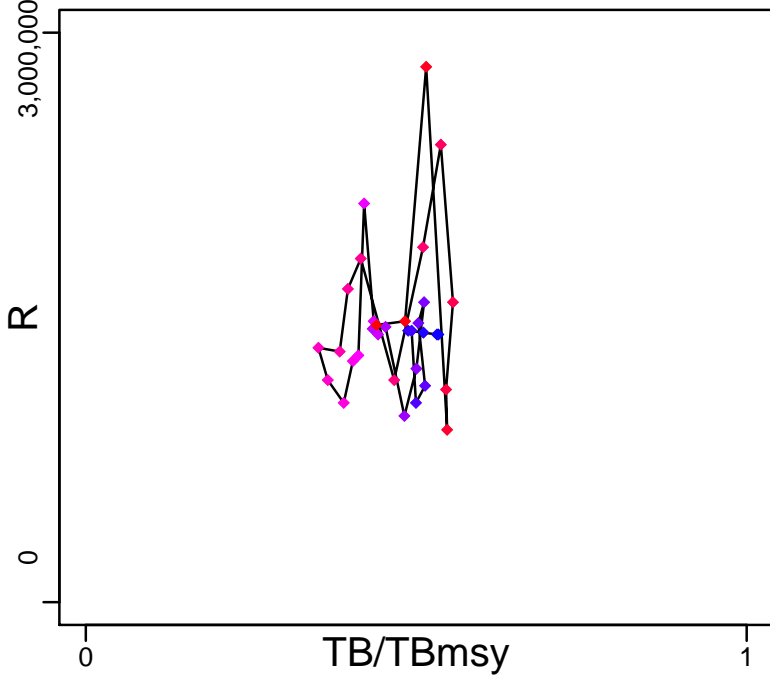
Kobe MSY_{pref} (1981–2016–ICESIMP2016)



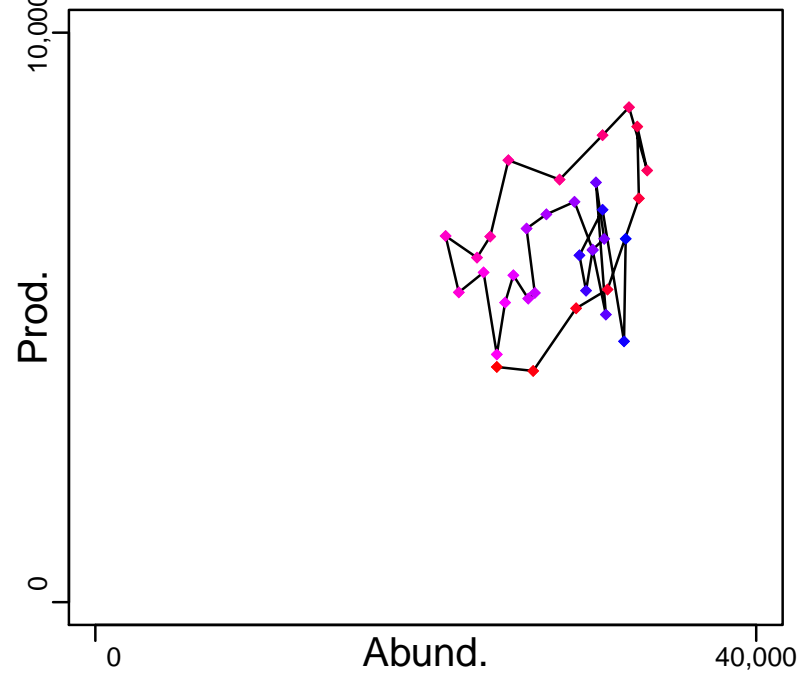
Kobe MGT_{pref} (1981–2016–ICESIMP2016)



Spawner Recruit (1981–2016–ICESIMP2016)



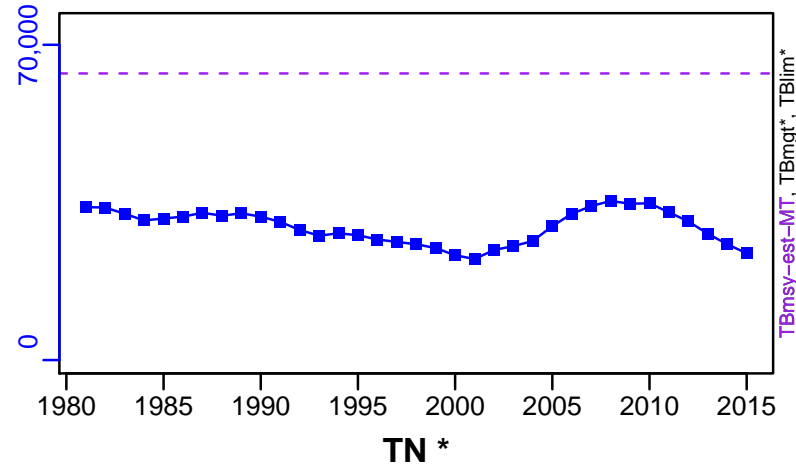
Production (1981–2016–ICESIMP2016)



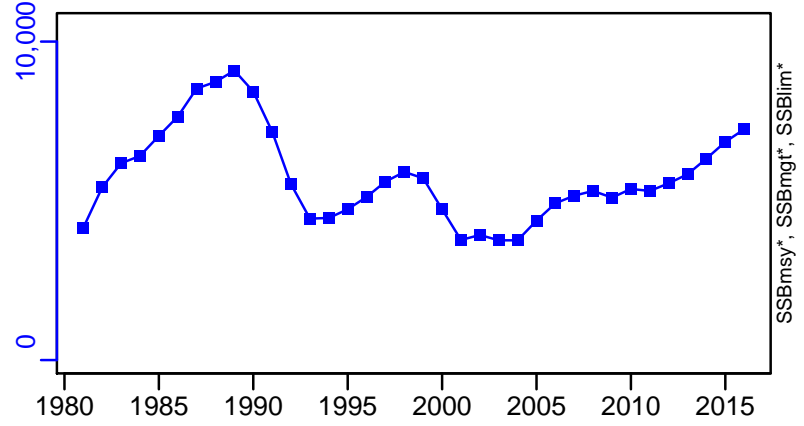
◆ Start Year ◆ End Year * No Data

Tusk Va and XIV [CUSKVa–XIV]

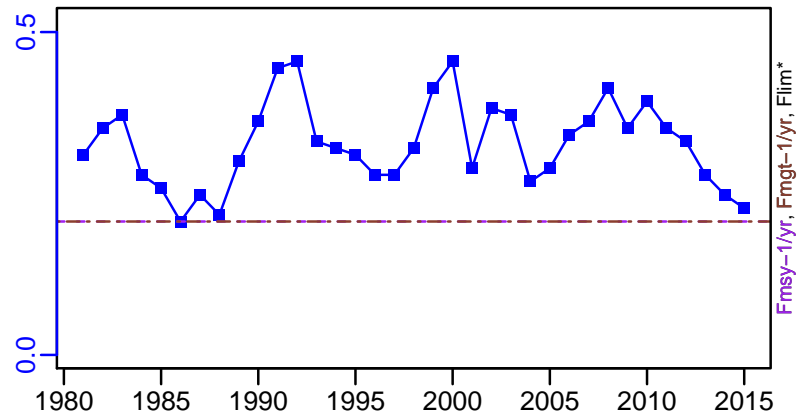
TB–MT (1981–2016–ICESIMP2016)



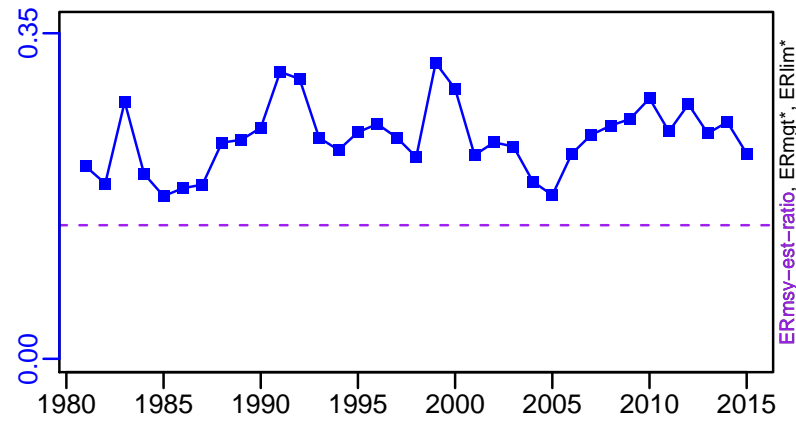
SSB–MT (1981–2016–ICESIMP2016)



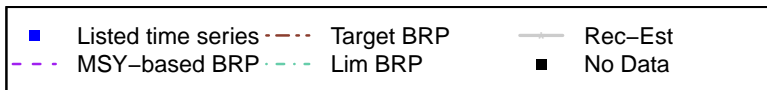
F–1/yr (1981–2016–ICESIMP2016)



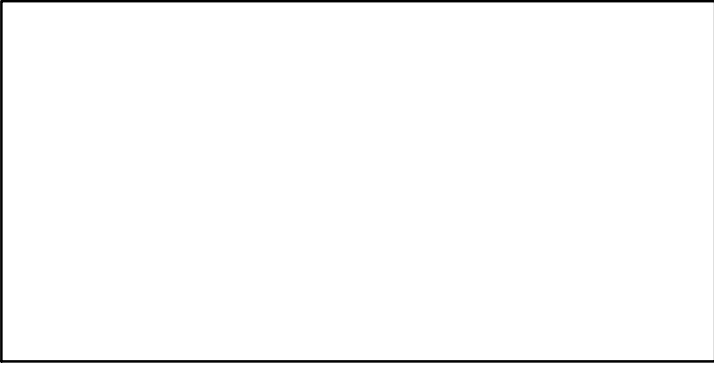
ER–calc–ratio (1981–2016–ICESIMP2016)



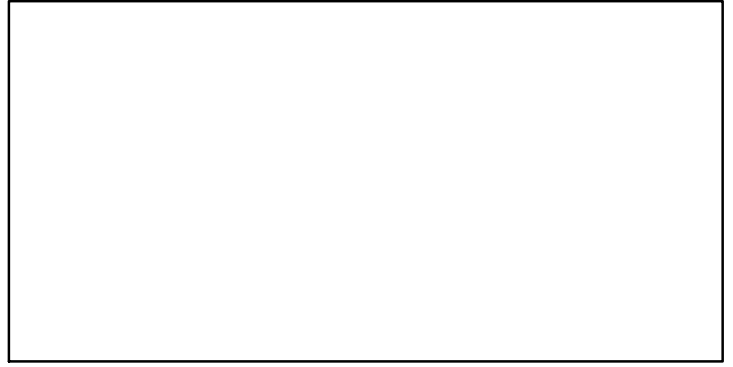
Recruits*



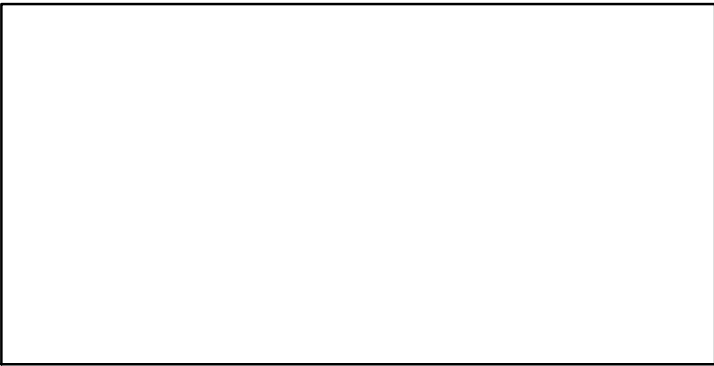
TC*, TL*, RecC*



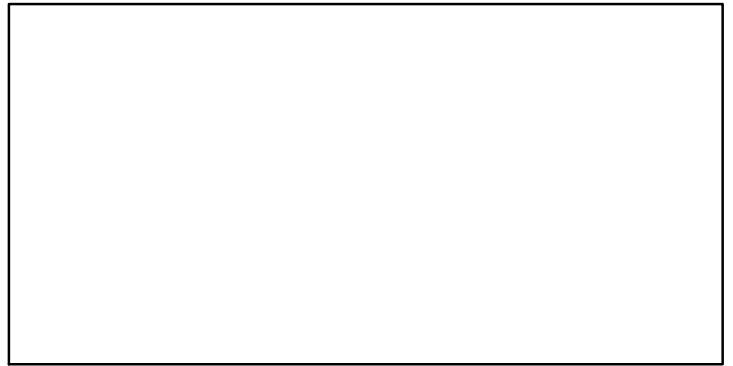
TAC*, Cpair*, Cadv*



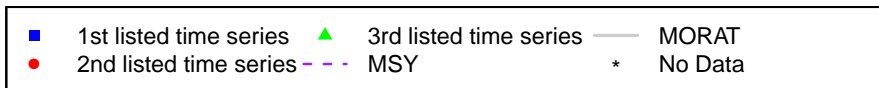
survB*



CPUE*



EFFORT*



Tusk Rockall Bank [CUSKVlb]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKVlb-1988-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
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	226		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



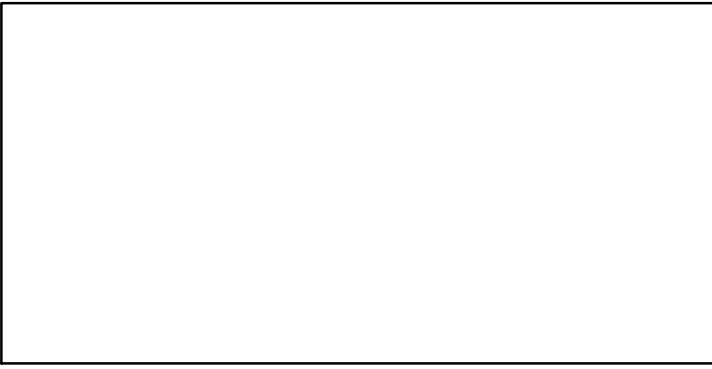
Production*



◆ Start Year ◆ End Year * No Data

Tusk Rockall Bank [CUSKVlb]

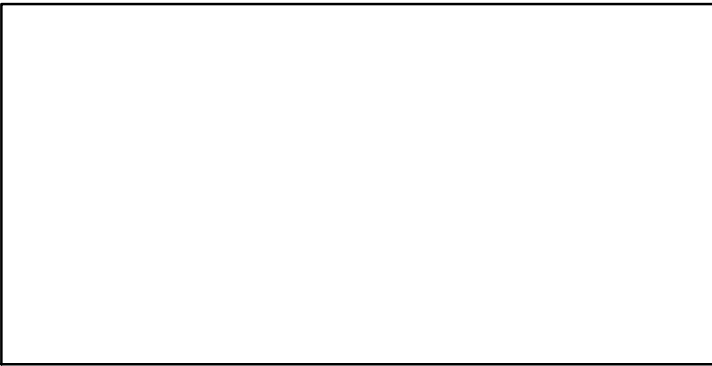
TB*



SSB*



TN *



F*



ER*

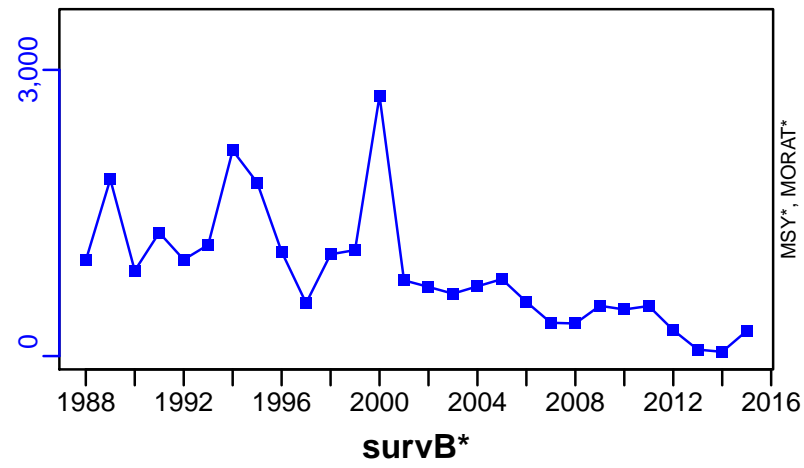


Recruits*



Tusk Rockall Bank [CUSKVlb]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

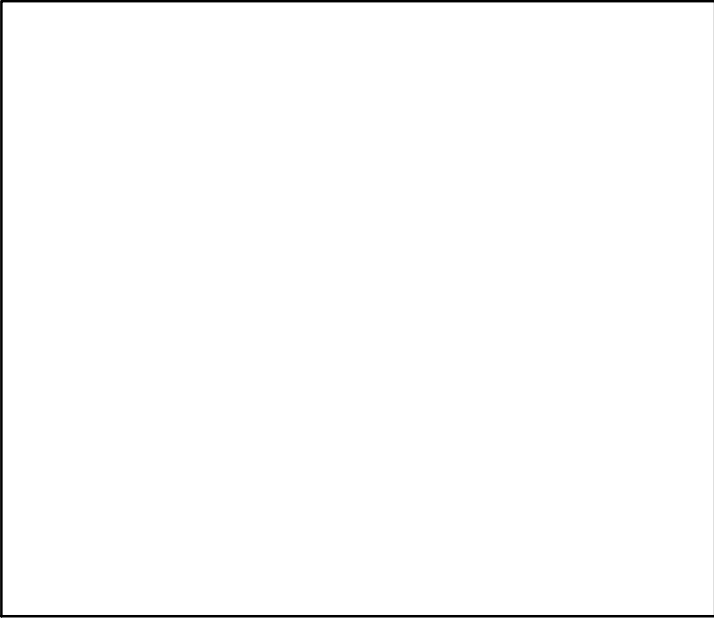
Tusk North of Azores [CUSKXII]

Metadata	
Scientific Name	Brosme brosme
Current Assess ID	WGDEEP-CUSKXII-1988-2015-ICESIMP2016
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

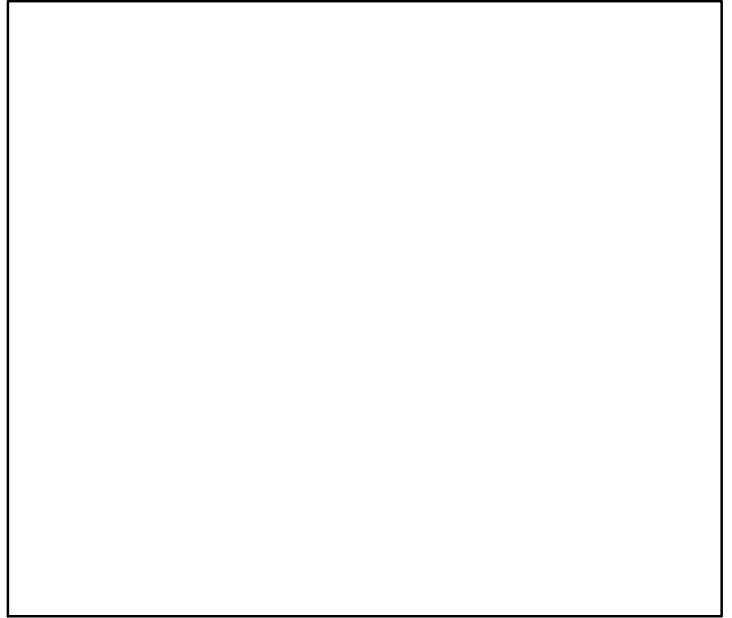
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

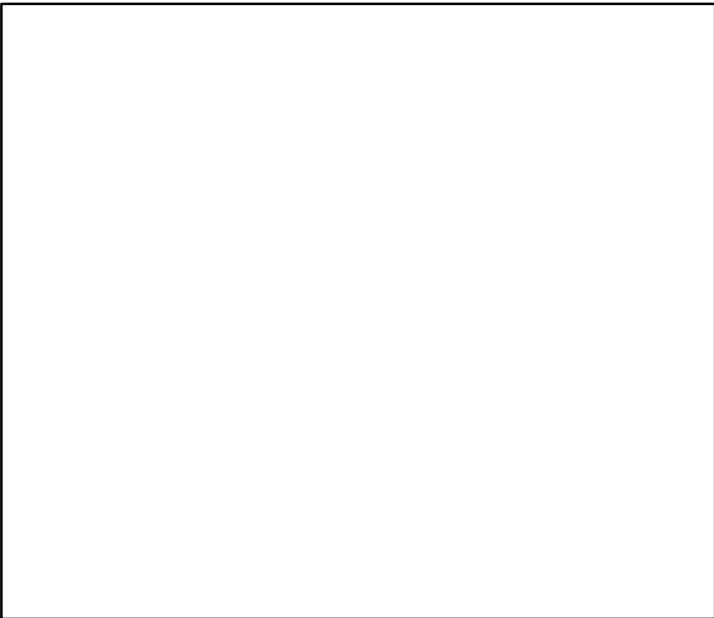
Kobe MSY*



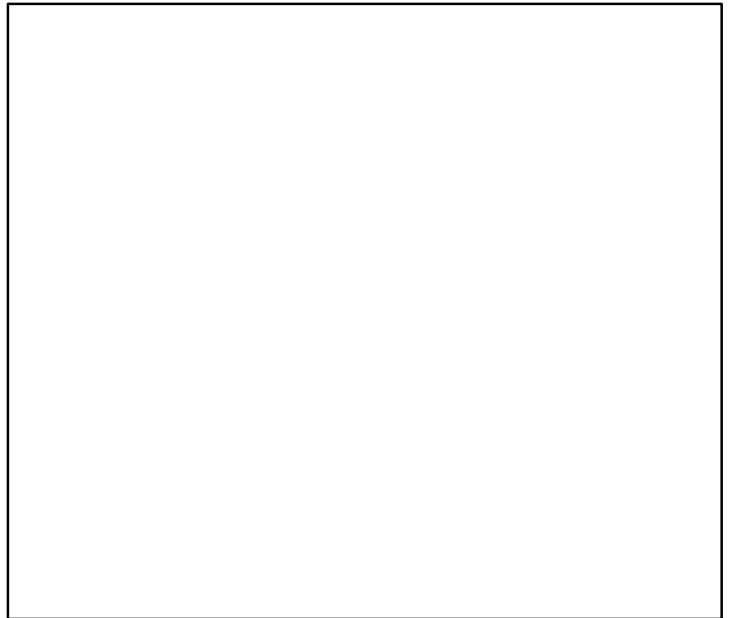
Kobe MGT*



Spawner Recruit*



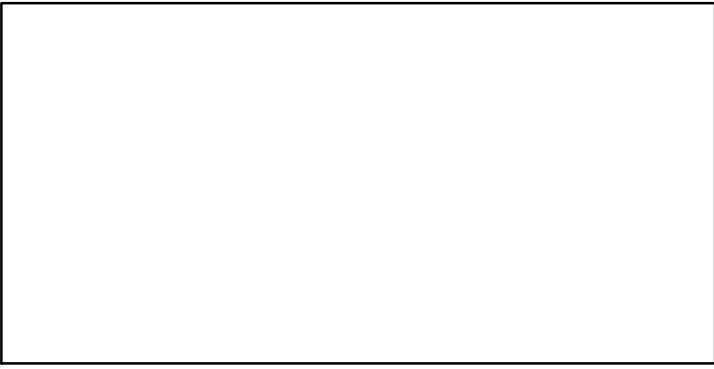
Production*



◆ Start Year ◆ End Year * No Data

Tusk North of Azores [CUSKXII]

TB*



SSB*



TN *



F*



ER*



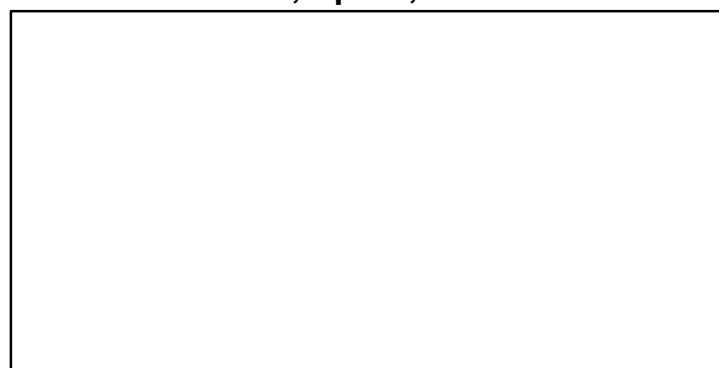
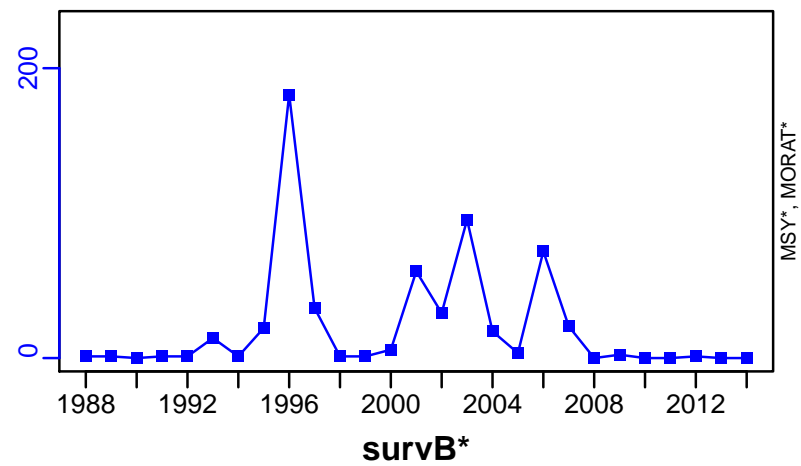
Recruits*



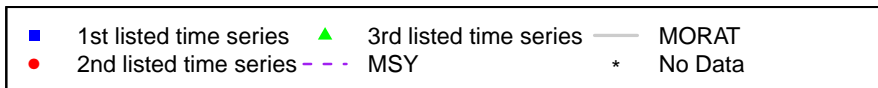
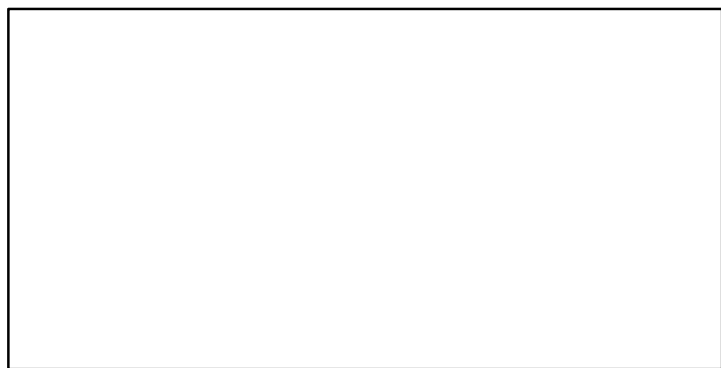
Tusk North of Azores [CUSKXII]

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

TAC*, Cpair*, Cadv*



EFFORT*



Dab VII-VIIIabd [DAB2232]

Metadata	
Scientific Name	Limanda limanda
Current Assess ID	WGBFAS-DAB2232-1970-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	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*



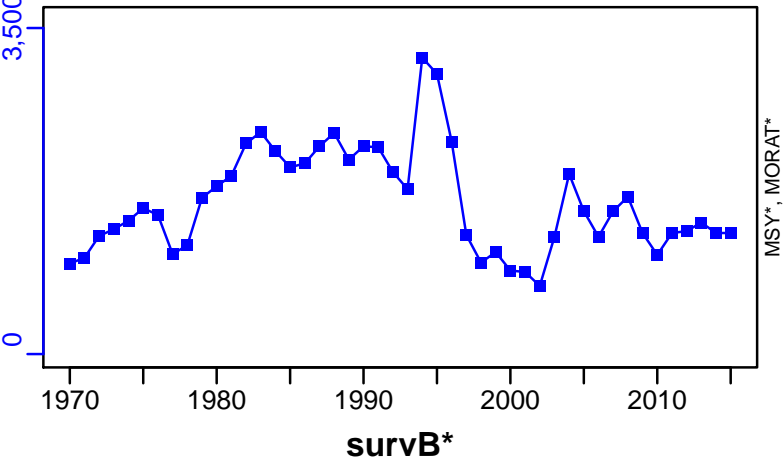
ER*



Recruits*



TL–MT, TC*, RecC* (1970–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European seabass IVbc and VII [EBASSIVbc-VII]

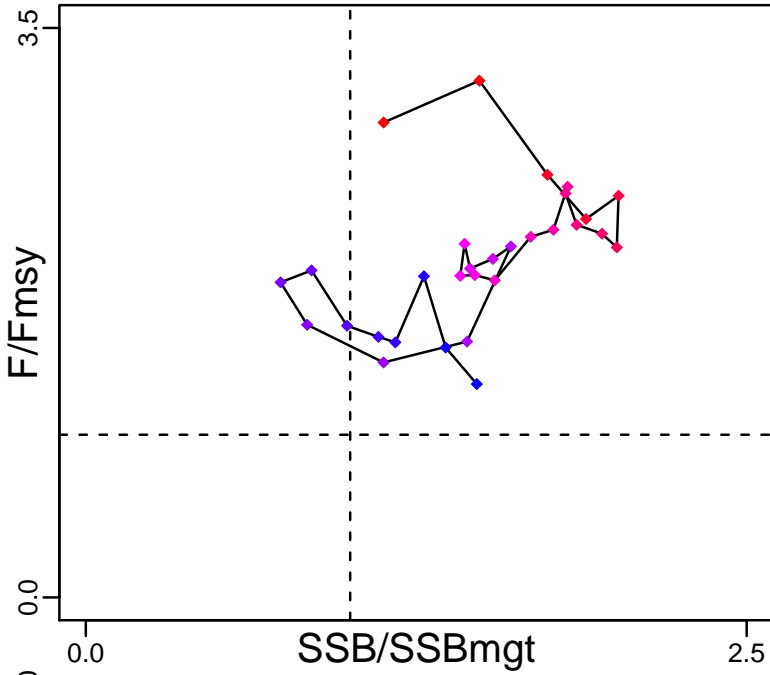
Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSIVbc-VII-1985-2016-ICESIMP2016
Area	IVbc and VII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.13
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	12,673
Fmgt	Fmgt-1/yr	2015	0.13
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	8075
Flim	-	-	-
ERlim	-	-	-

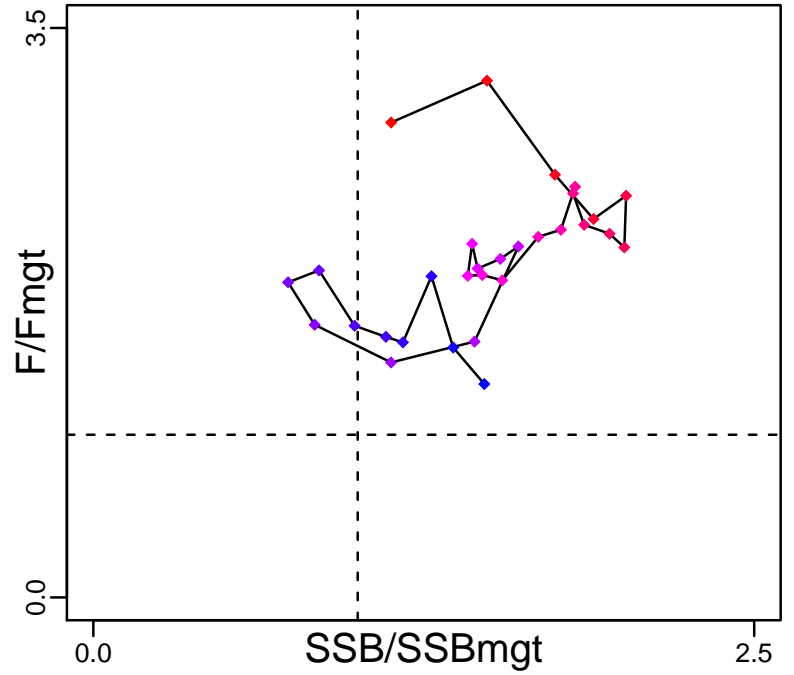
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European seabass IVbc and VII [EBASSIVbc-VII]

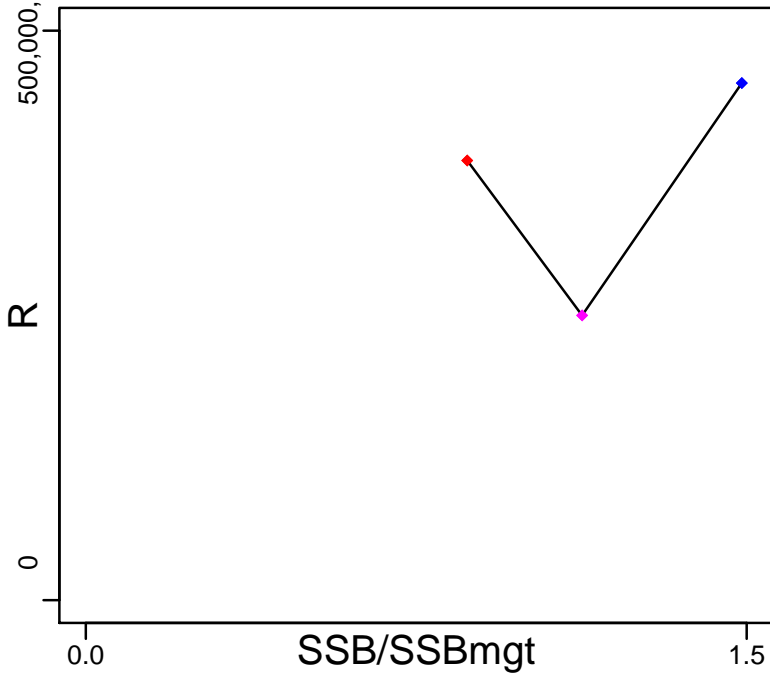
Kobe MSYpref (1985–2015–ICESIMP2016)



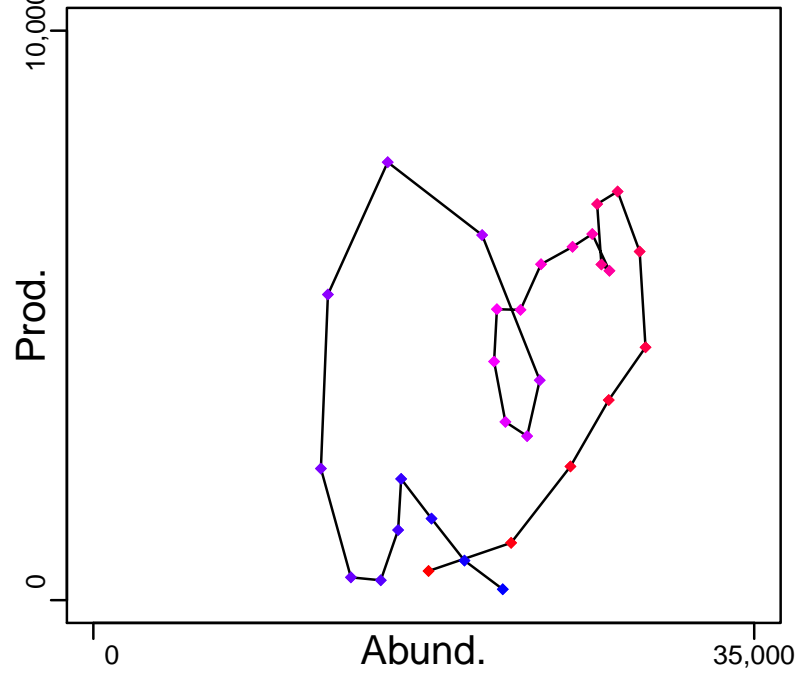
Kobe MGTpref (1985–2015–ICESIMP2016)



Spawner Recruit (1985–2016–ICESIMP2016)



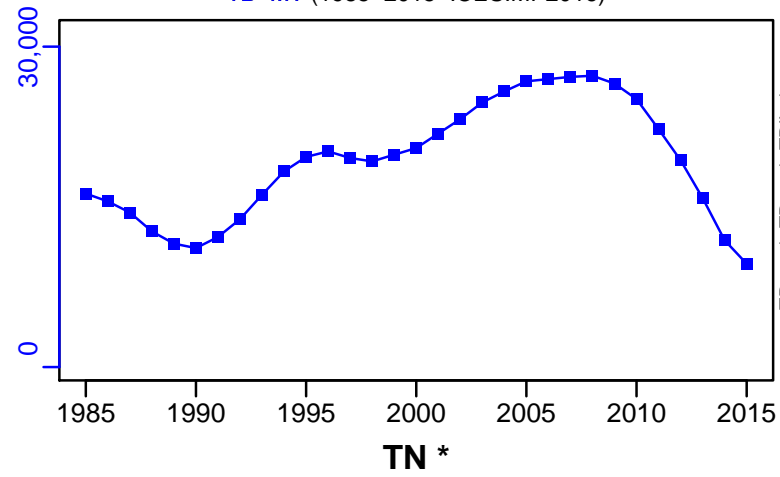
Production (1985–2016–ICESIMP2016)



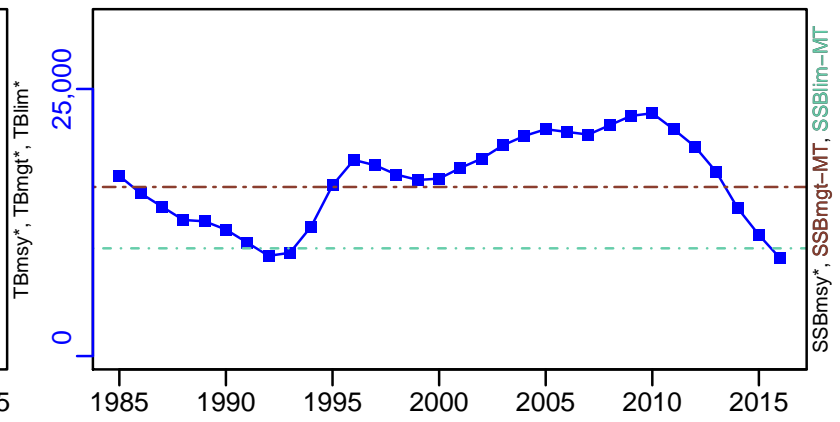
◆ Start Year ◆ End Year * No Data

European seabass IVbc and VII [EBASSIVbc-VII]

TB-MT (1985–2015–ICESIMP2016)

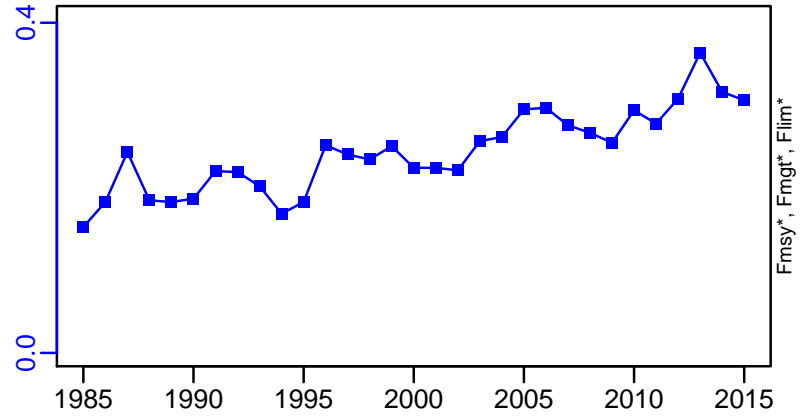
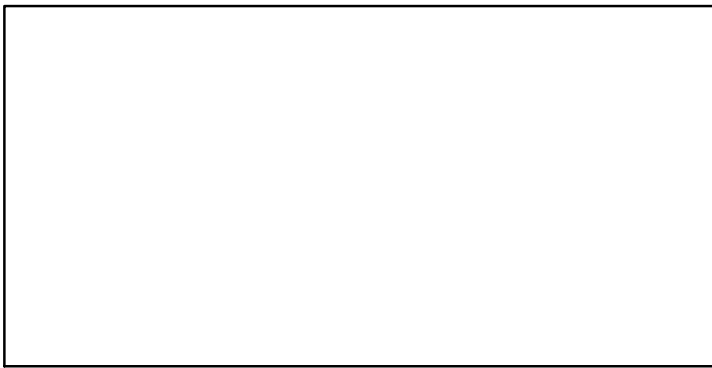


SSB-MT (1985–2016–ICESIMP2016)

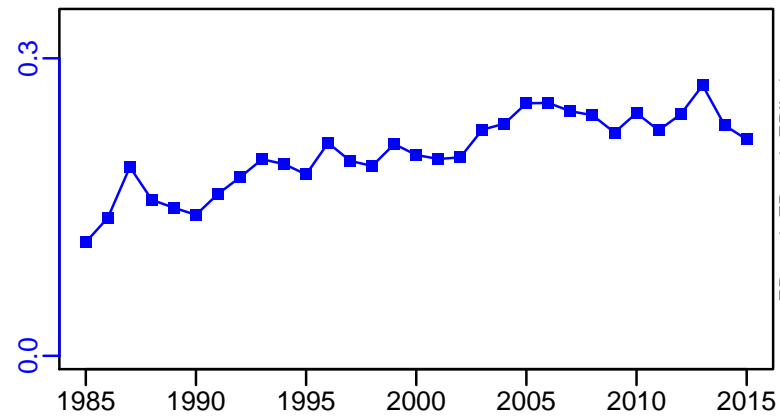


TN *

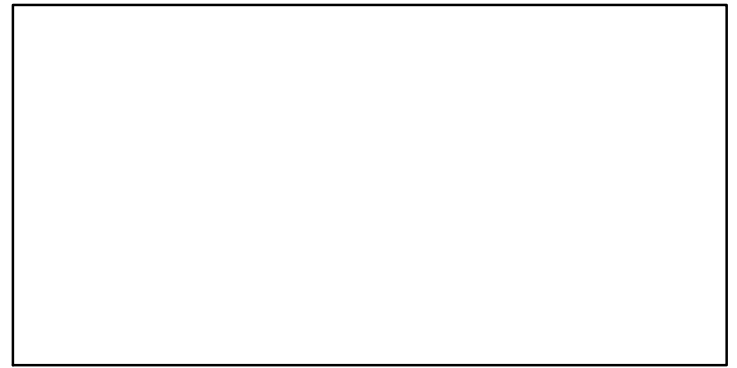
F-1/yr (1985–2016–ICESIMP2016)



ER-calc-ratio (1985–2016–ICESIMP2016)

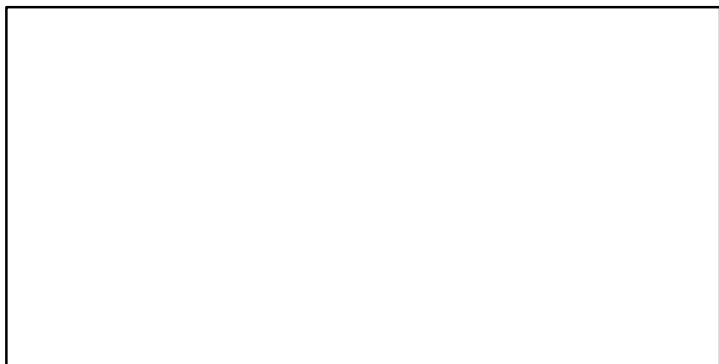


Recruits*

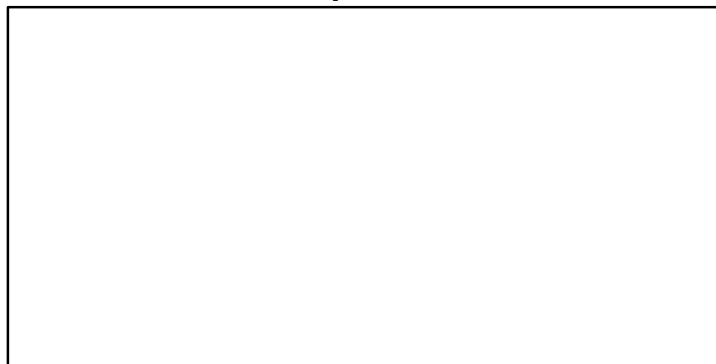


European seabass IVbc and VII [EBASSIVbc–VII]

TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



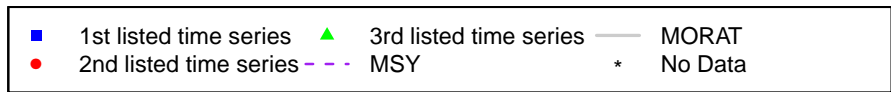
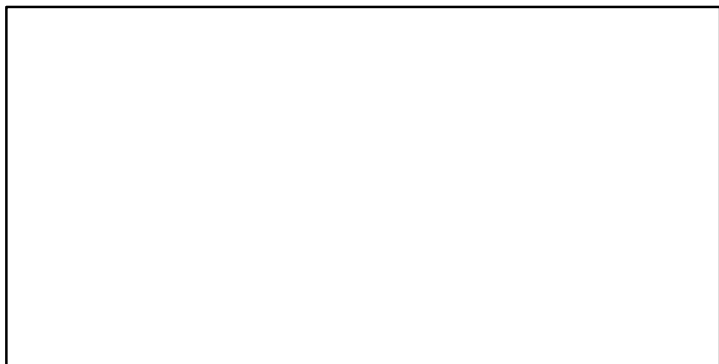
survB*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGCSE-EBASSVla-VIIb-j-1995-2015-ICESIMP2016
Area	Vla and VIIb-j
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015

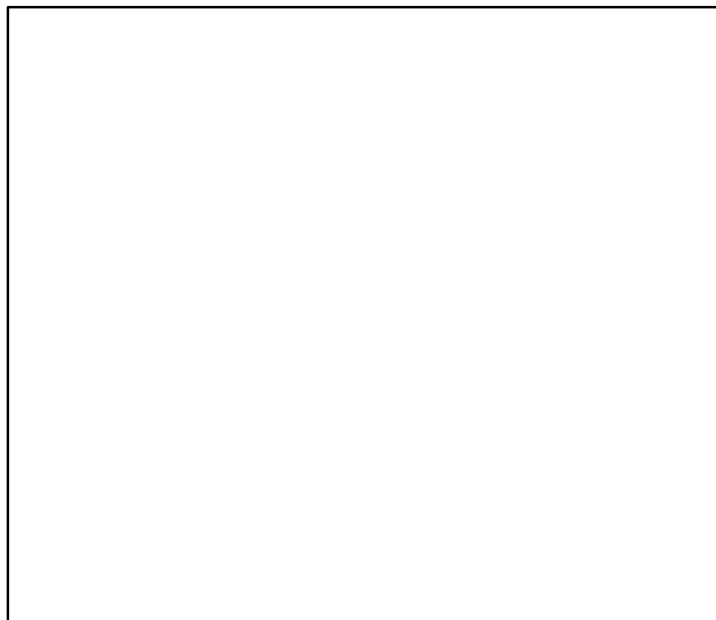
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*

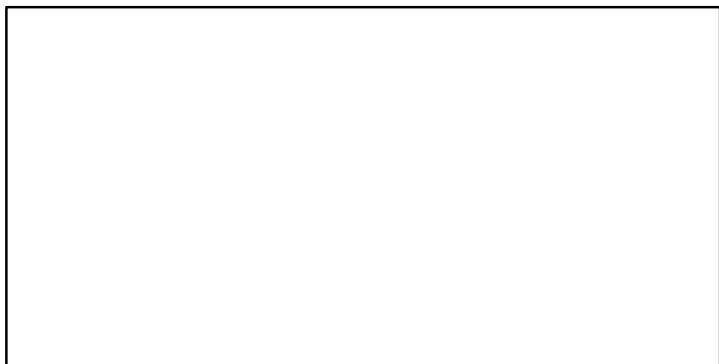


Recruits*

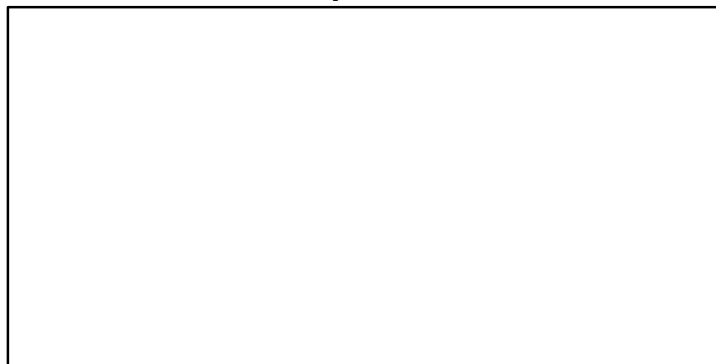


European seabass VIa and VIIb-j [EBASSVIa-VIIb-j]

TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



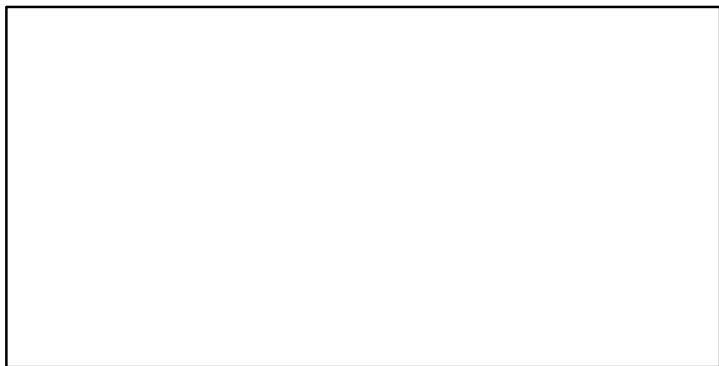
survB*



CPUE*



EFFORT*



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

European seabass VIIIc and IXa [EBASSVIIIc-IXa]

Metadata	
Scientific Name	Dicentrarchus labrax
Current Assess ID	WGBIE-EBASSVIIIc-IXa-1978-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*

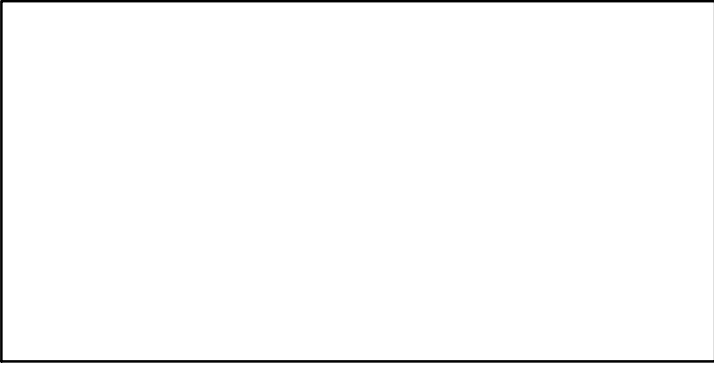


Recruits*

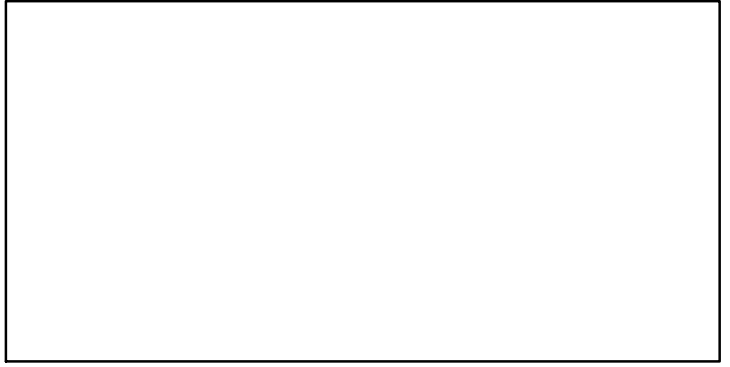


European seabass VIIIc and IXa [EBASSVIIIc-IXa]

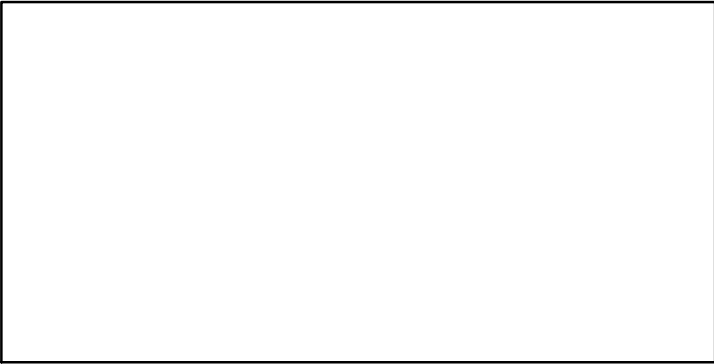
TC*, TL*, RecC*



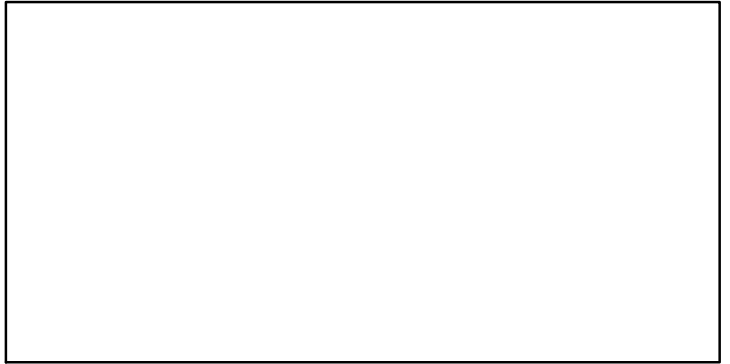
TAC*, Cpair*, Cadv*



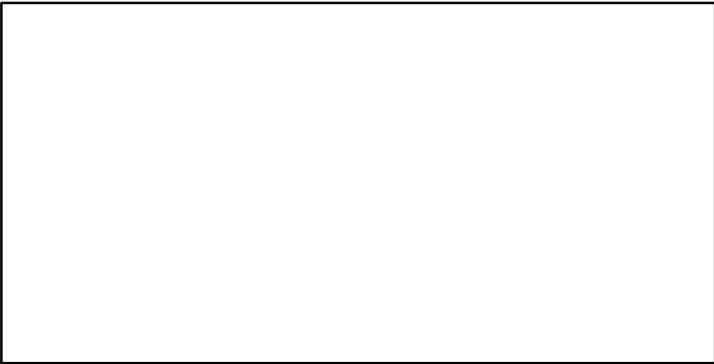
survB*



CPUE*



EFFORT*



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

European flounder Subdivisions 22-23 [EFLOUN2223]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2223-1973-2016-ICESIMP2016
Area	Subdivisions 22-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
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	1130		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



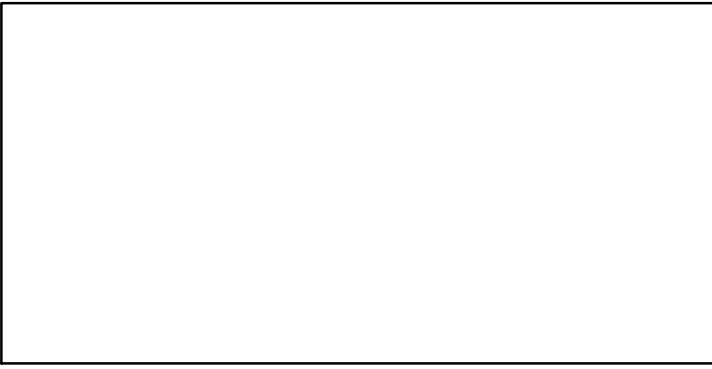
Production*



◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

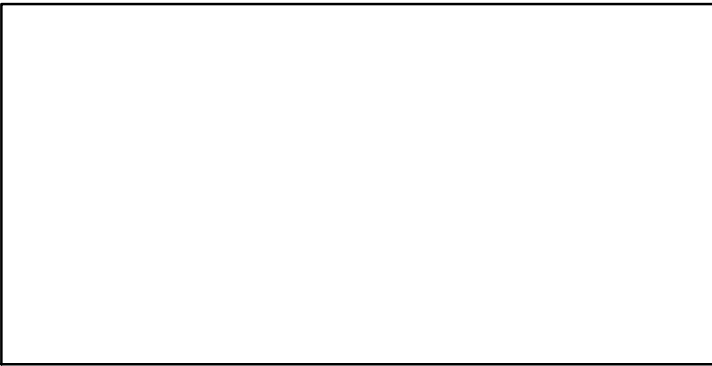
TB*



SSB*



TN *



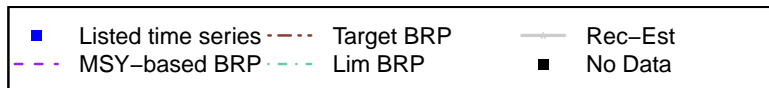
F*



ER*



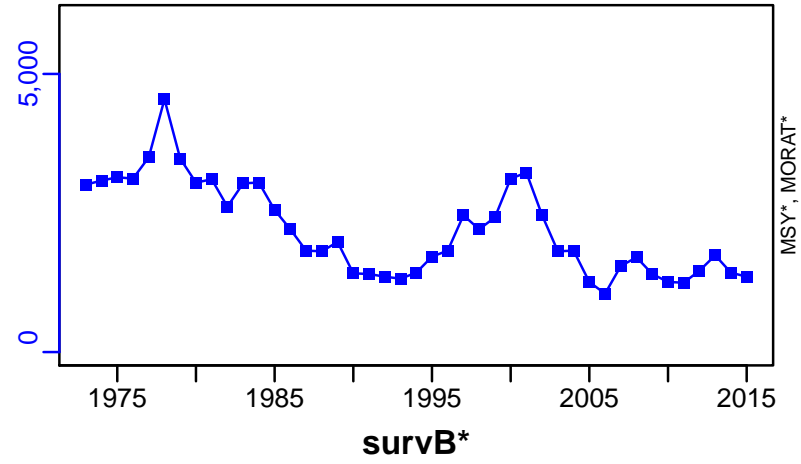
Recruits*



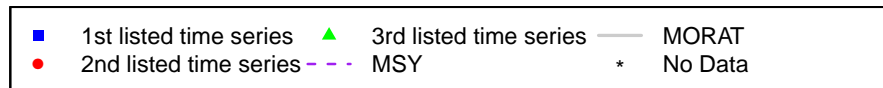
European flounder Subdivisions 22–23 [EFLOUN2223]

TL–MT, TC*, RecC* (1973–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



European flounder Subdivisions 24-25 [EFLOUN2425]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN2425-1973-2016-ICESIMP2016
Area	Subdivisions 24-25
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
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	11,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



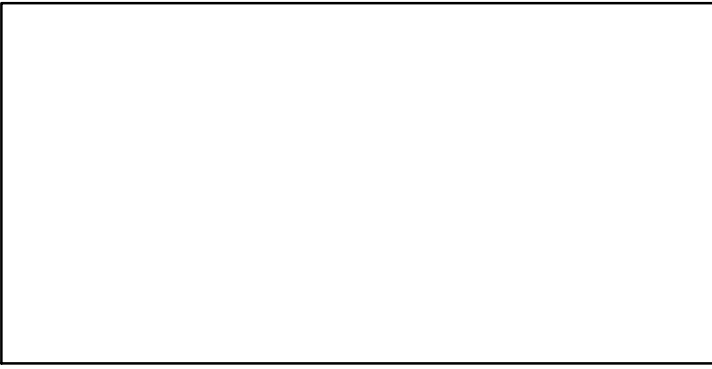
Production*



◆ Start Year ◆ End Year * No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

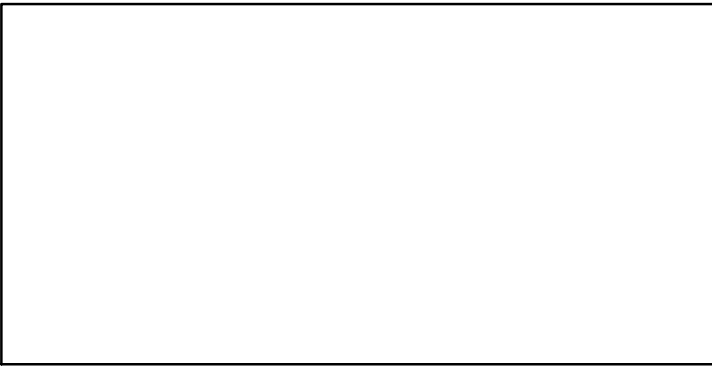
TB*



SSB*



TN *



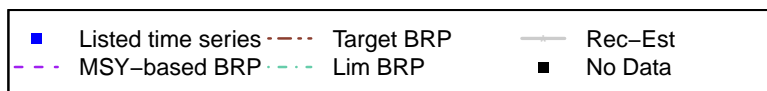
F*



ER*



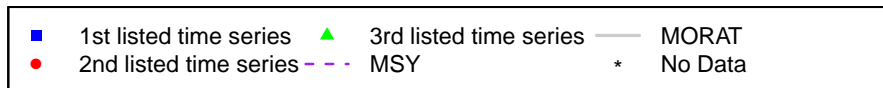
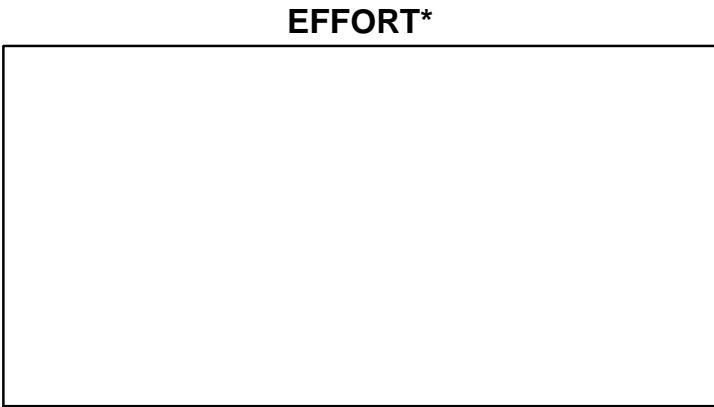
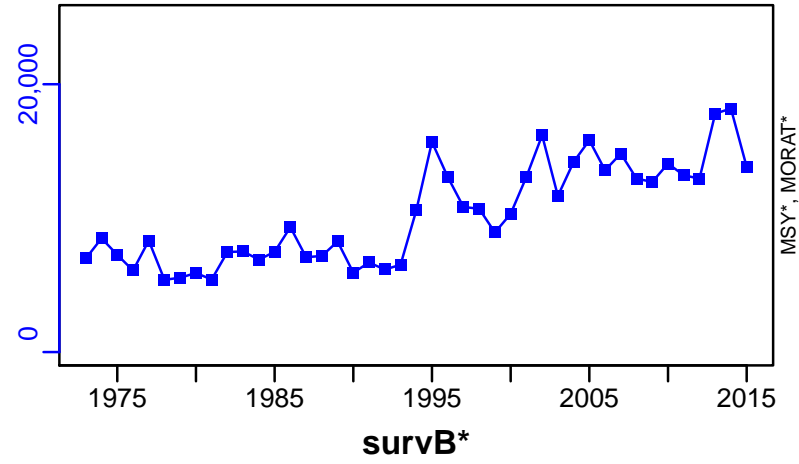
Recruits*



European flounder Subdivisions 24–25 [EFLOUN2425]

TL–MT, TC*, RecC* (1973–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



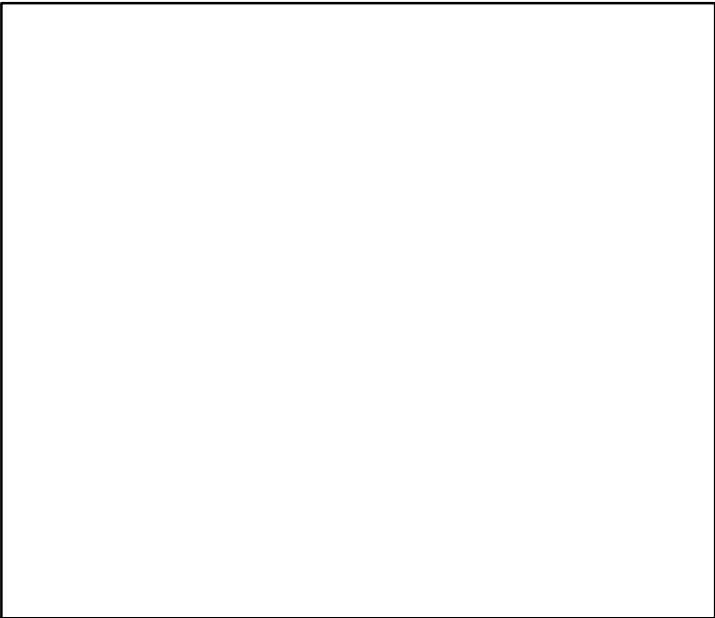
European flounder Subdivisions 26-28 [EFLOUN26-28]

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN26-28-1996-2016-ICESIMP2016
Area	Subdivisions 26-28
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

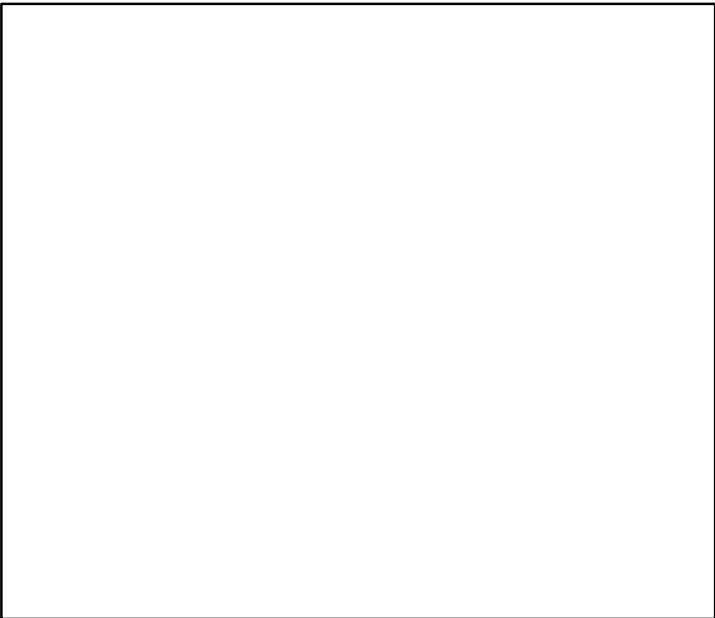
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



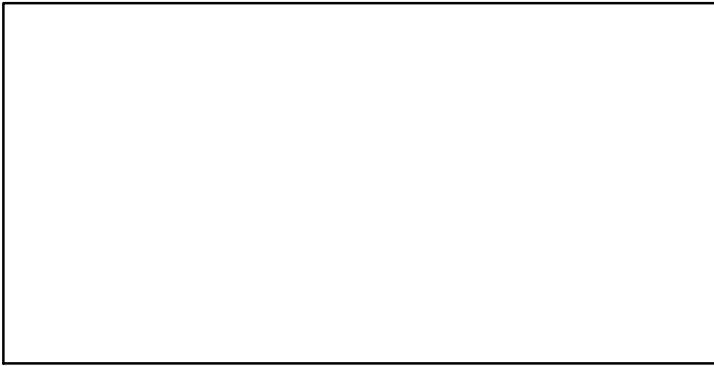
ER*



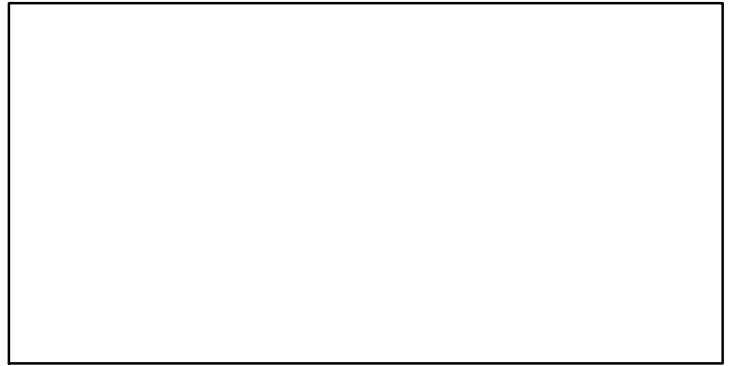
Recruits*



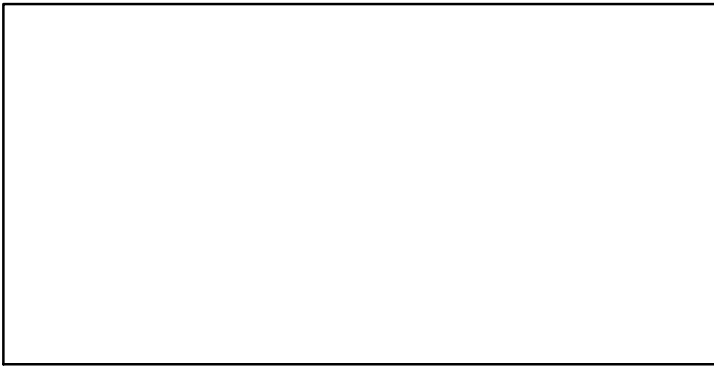
TC*, TL*, RecC*



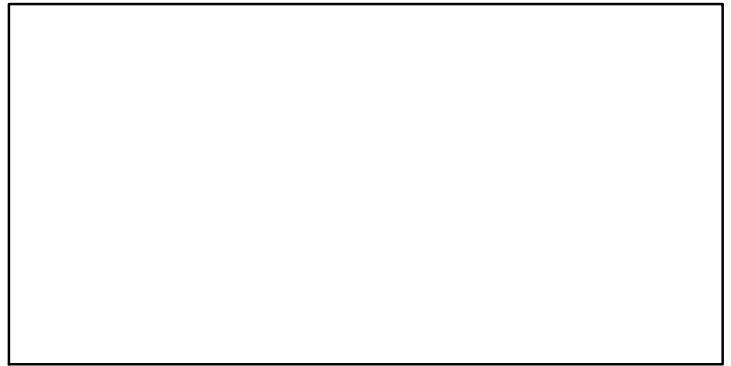
TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



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

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

Metadata	
Scientific Name	Platichthys flesus
Current Assess ID	WGBFAS-EFLOUN27-2932-1980-2016-ICESIMP2016
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

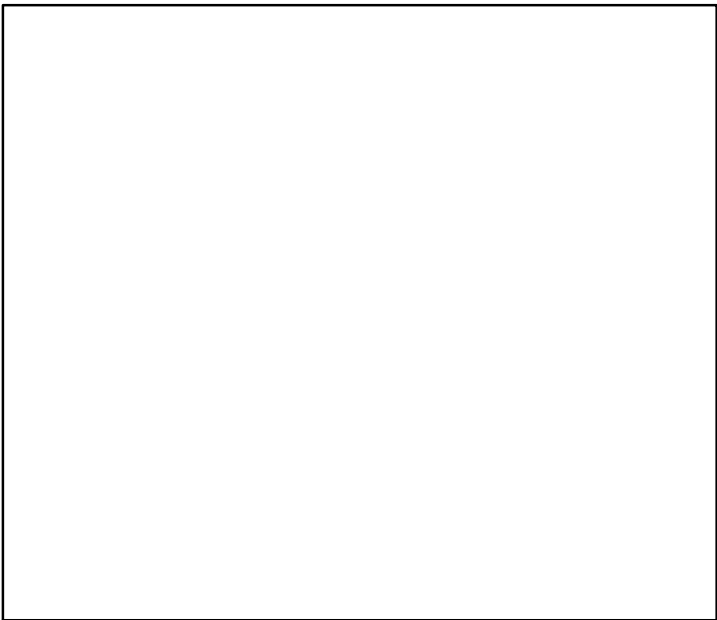
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

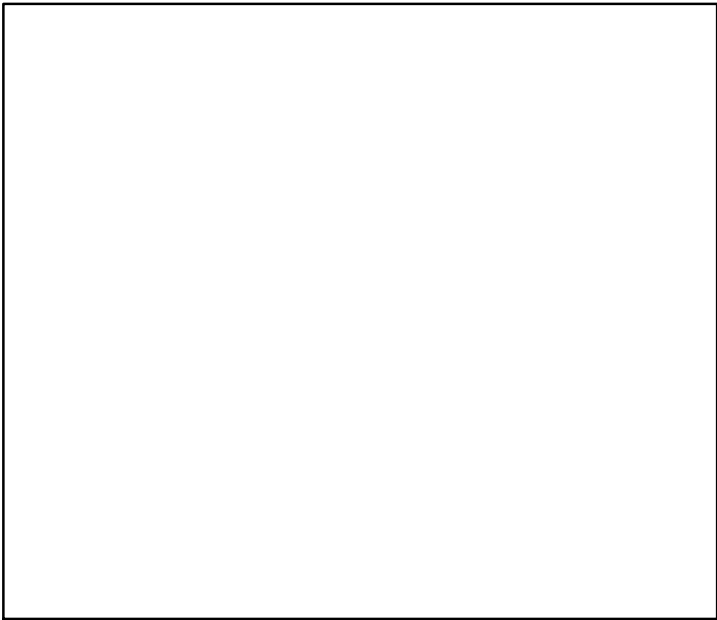
Kobe MSY*



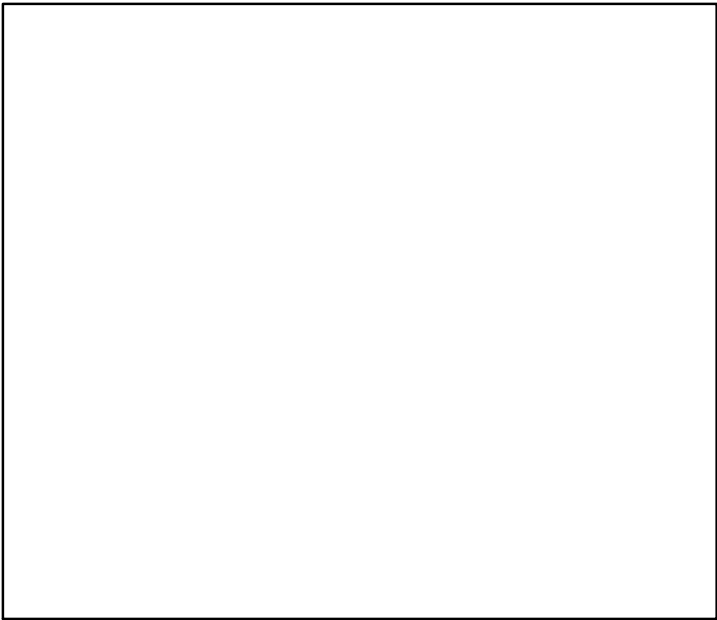
Kobe MGT*



Spawner Recruit*



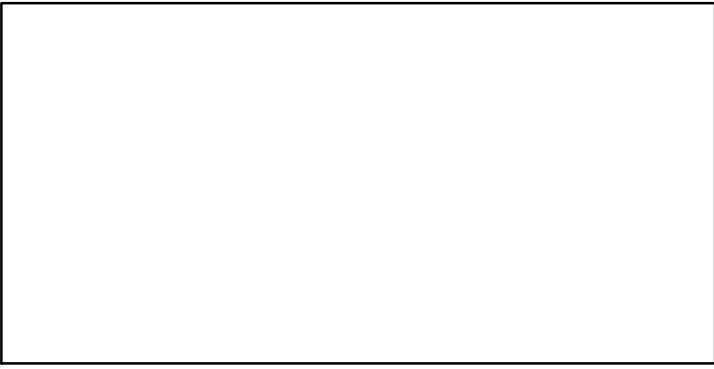
Production*



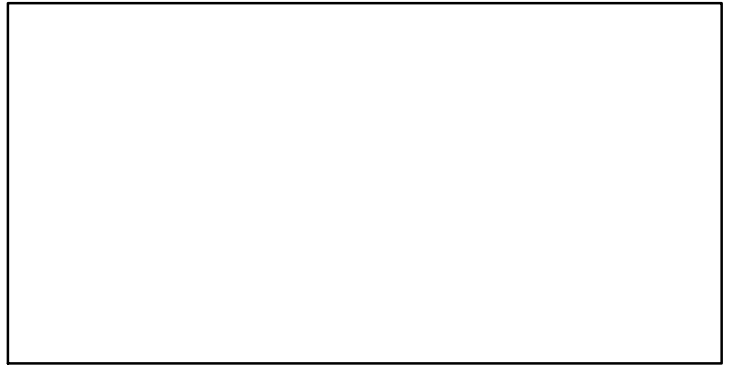
◆ Start Year ◆ End Year * No Data

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

TB*



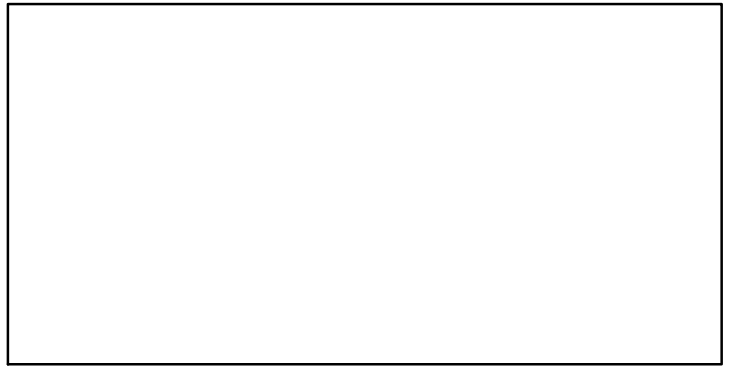
SSB*



TN *



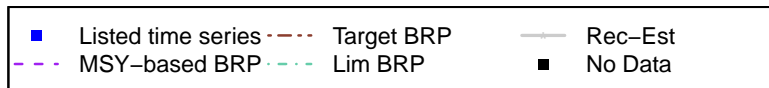
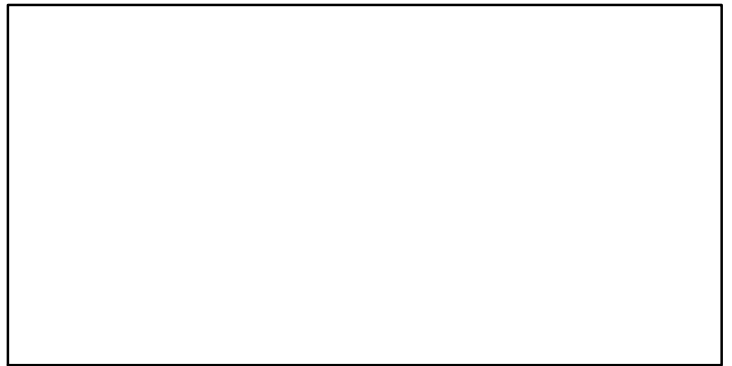
F*



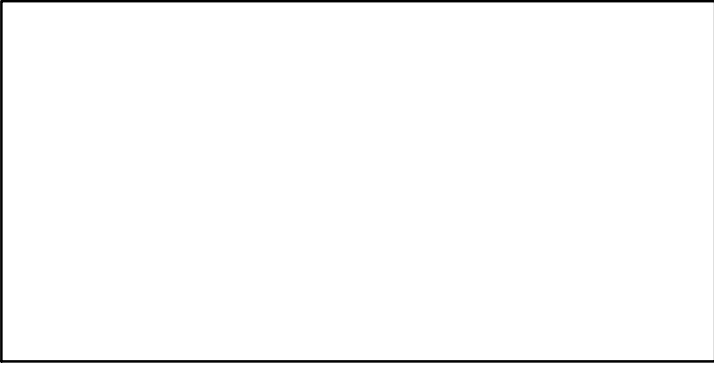
ER*



Recruits*



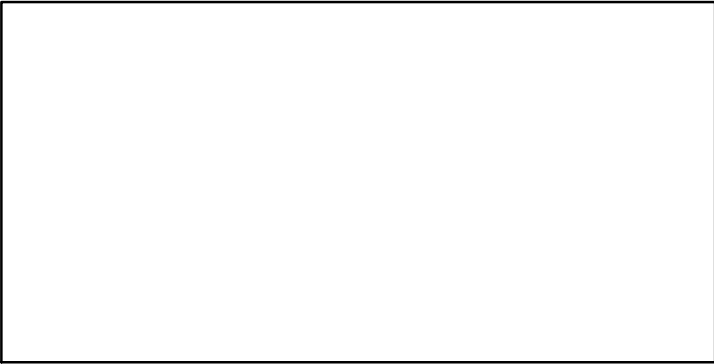
TC*, TL*, RecC*



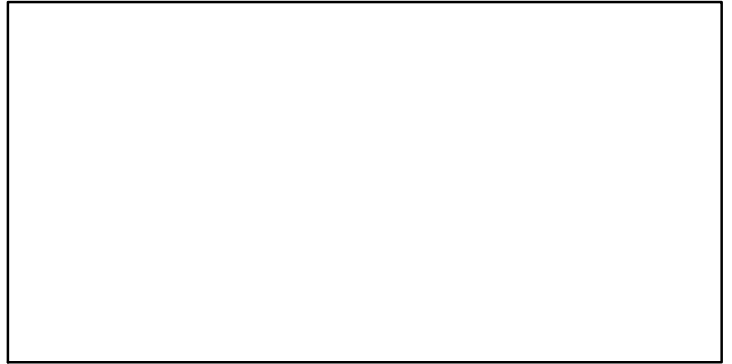
TAC*, Cpair*, Cadv*



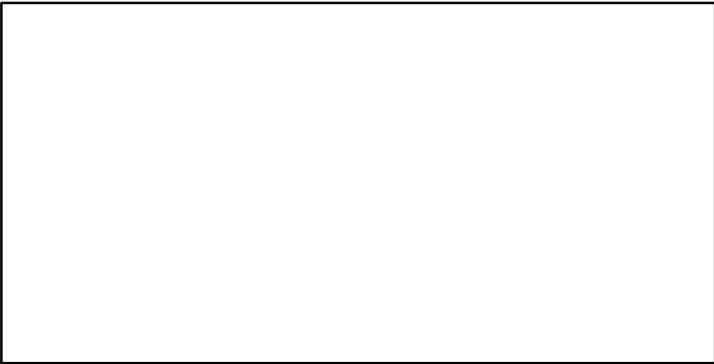
survB*



CPUE*



EFFORT*



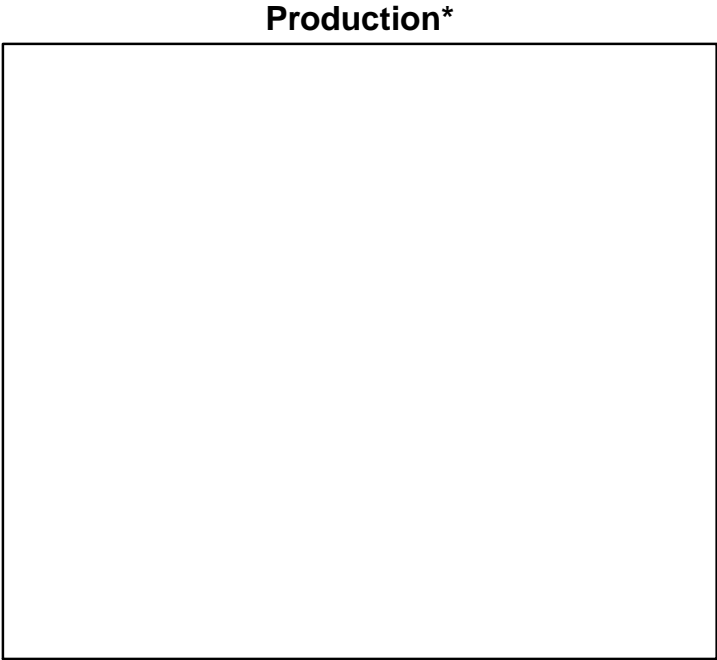
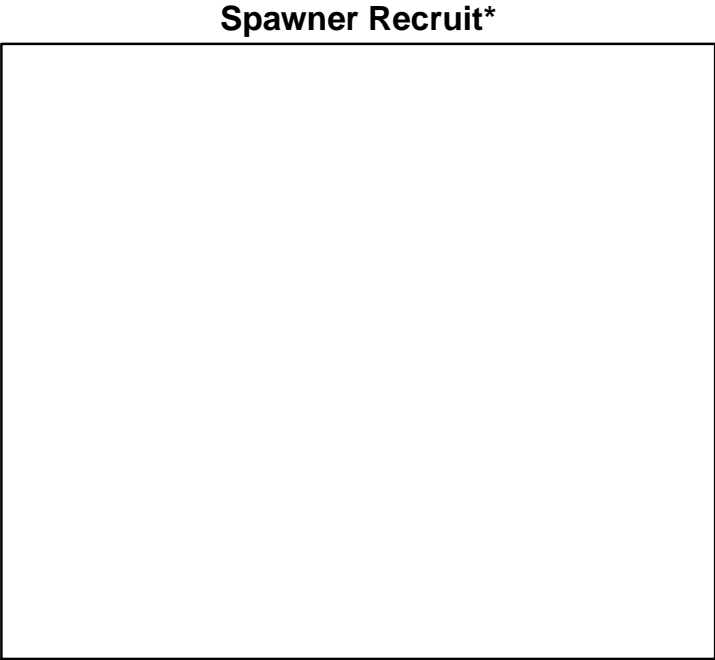
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - MSY * No Data

European pollack IIIa and North Sea [EPOLLIV-IIIa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGNSSK-EPOLLIV-IIIa-1977-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
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*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

—

MORAT

*

No Data

European pollack VIII and IXa [EPOLLVIII-IXa]

Metadata	
Scientific Name	Pollachius pollachius
Current Assess ID	WGBIE-EPOLLVIII-IXa-1985-2016-ICESIMP2016
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

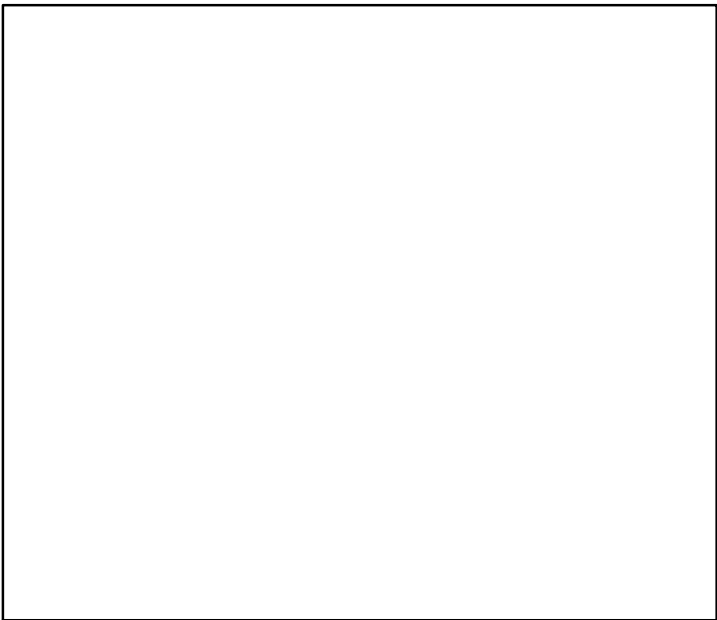
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

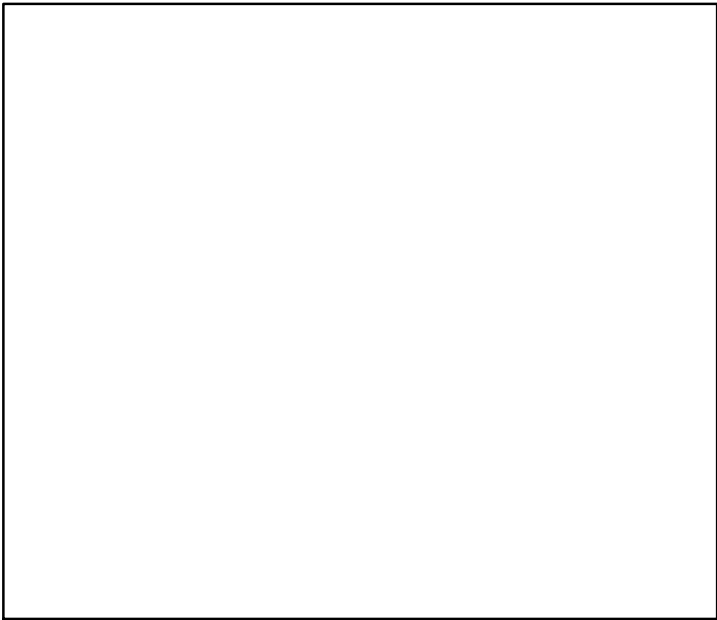
Kobe MSY*



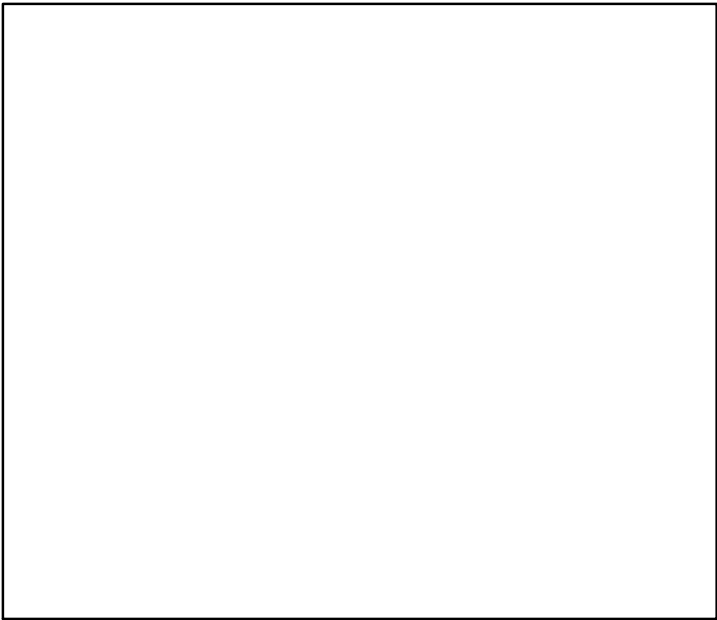
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

European pollack VIII and IXa [EPOLLVIII-IXa]

TB*



SSB*



TN *



F*



ER*

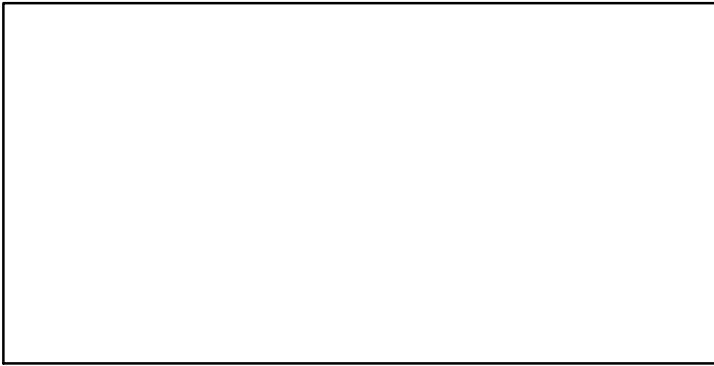


Recruits*

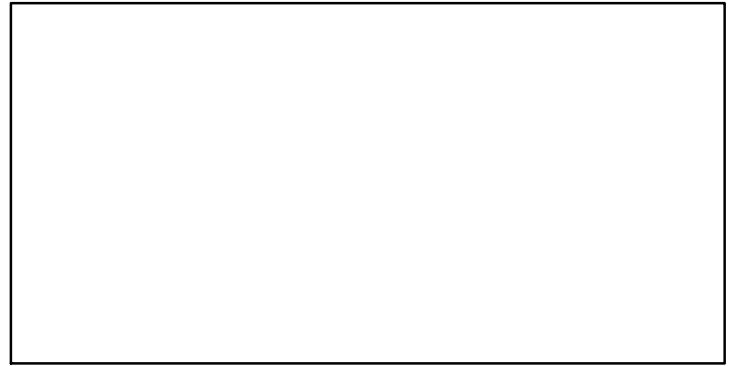


European pollack VIII and IXa [EPOLLVIII-IXa]

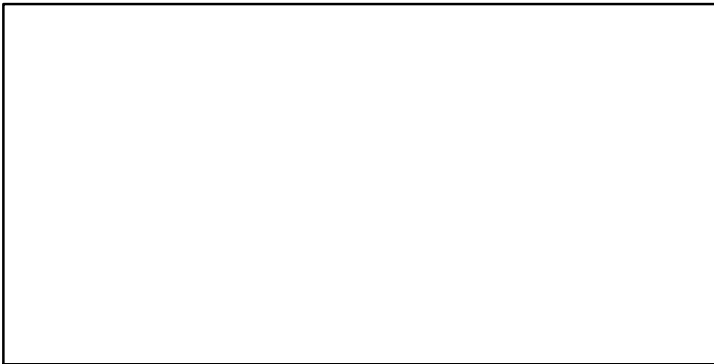
TC*, TL*, RecC*



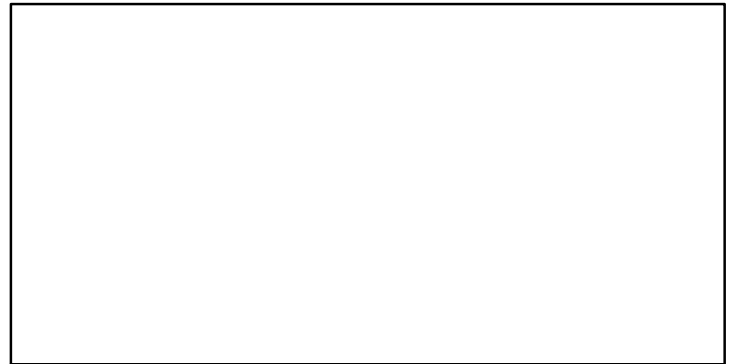
TAC*, Cpair*, Cadv*



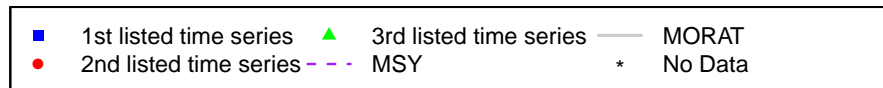
survB*



CPUE*



EFFORT*



Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

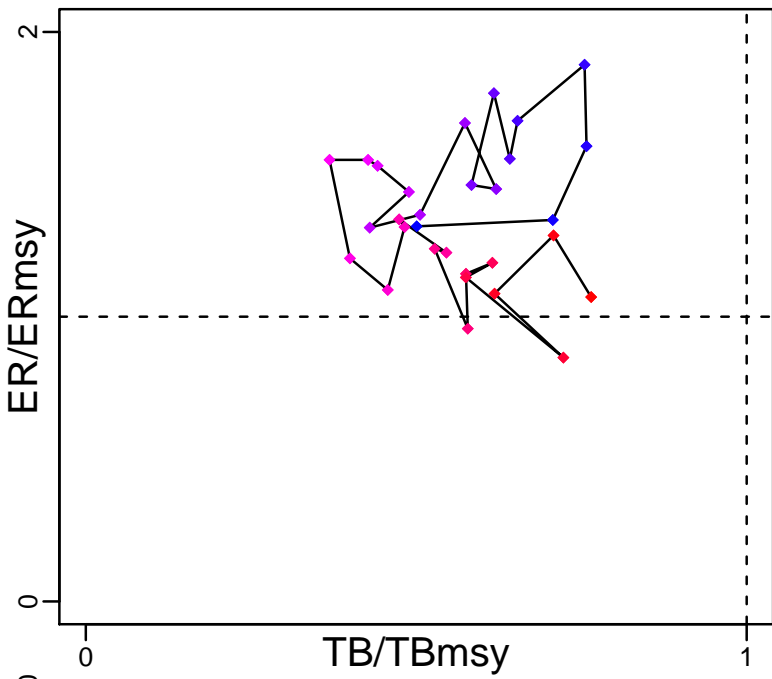
Metadata	
Scientific Name	Lepidorhombus boscii
Current Assess ID	WGBIE-FMEG8c9a-1986-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	10,342
SSBmsy	SSBmsy-est-MT	2014	9886
Fmsy	Fmsy-1/yr	2016	0.19
ERmsy	ERmsy-est-ratio	2016	0.21
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	4600
Fmgt	Fmgt-1/yr	2016	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	2135
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	3300
Flim	Flim-1/yr	2016	0.57
ERlim	-	-	-

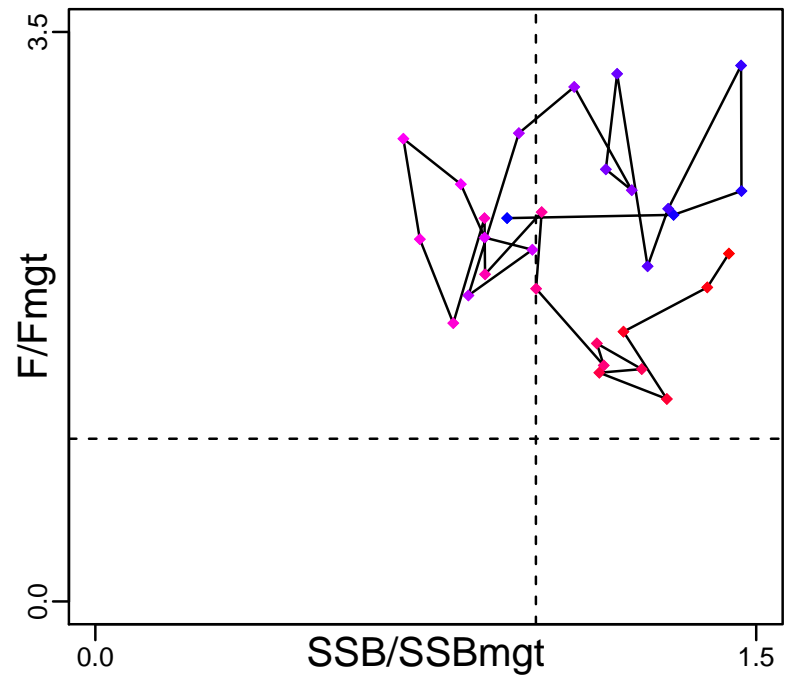
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	7910	-	-
SSB	SSB-MT	2016	7180	-	-
TN	-	-	-	-	-
R	R-E00	2016	43,300,000	-	0
F	F-1/yr	2016	0	-	2 to 4
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	1750		
TL	TL-MT	2016	1150		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.76		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2014	0.63		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	2.14		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.07		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.56		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	2.14		
ER/ERmgt	-	-	-		

Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

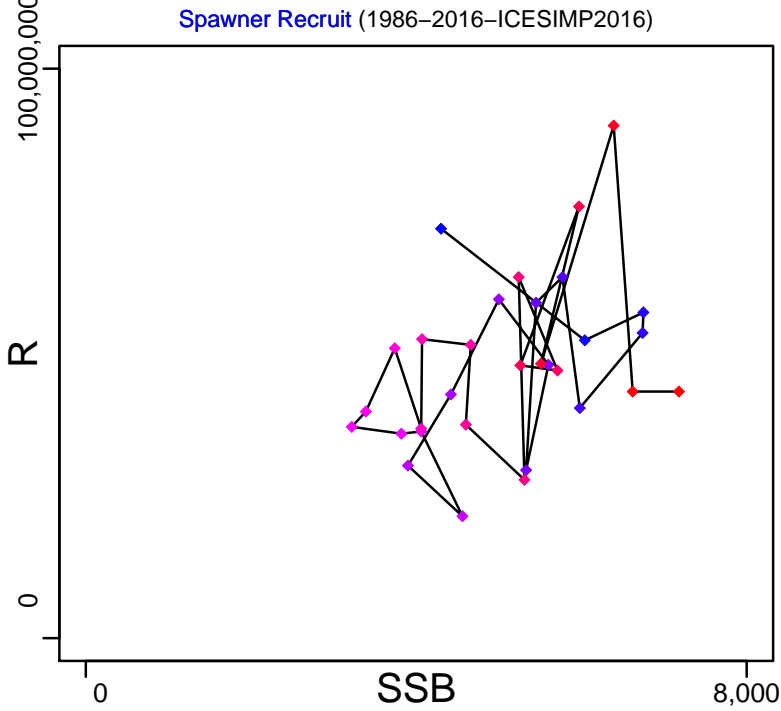
Kobe MSYpref (1986–2016–ICESIMP2016)



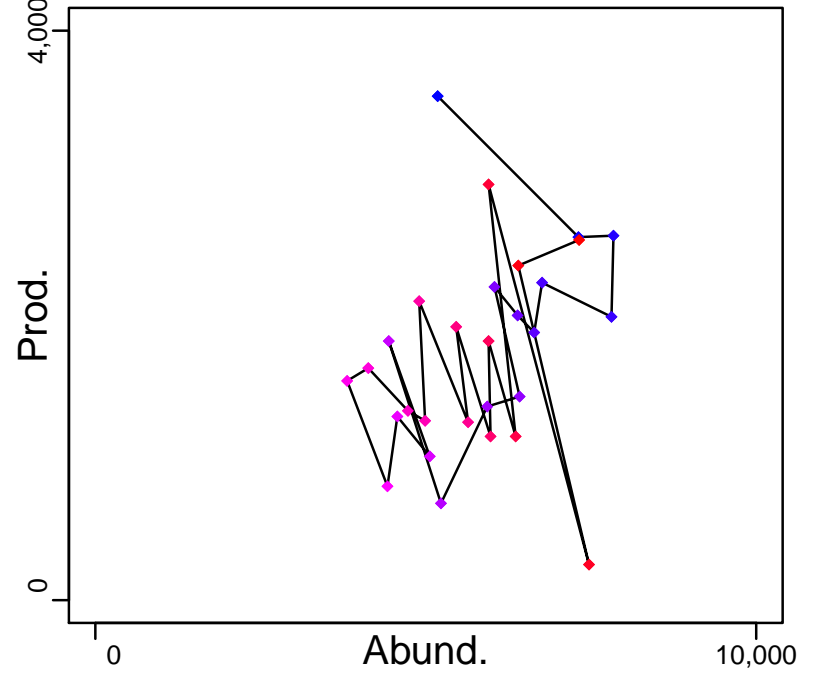
Kobe MGTpref (1986–2016–ICESIMP2016)



Spawner Recruit (1986–2016–ICESIMP2016)



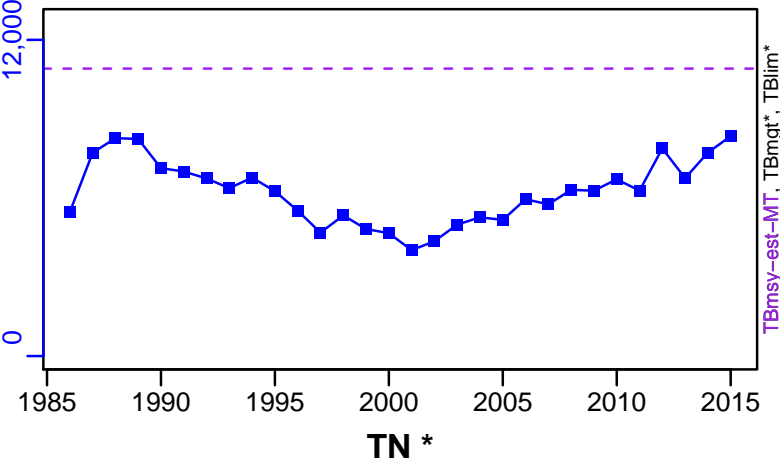
Production (1986–2016–ICESIMP2016)



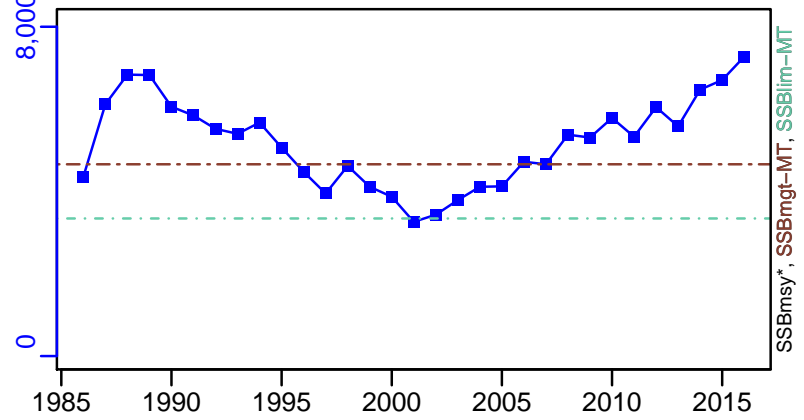
◆ Start Year ◆ End Year * No Data

Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

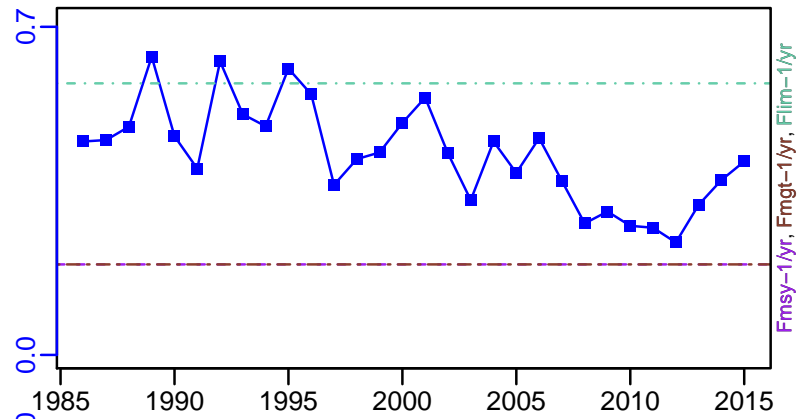
TB-MT (1986–2016–ICESIMP2016)



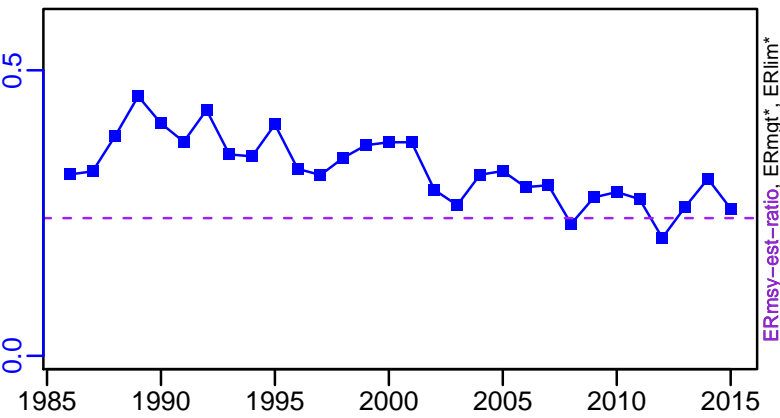
SSB-MT (1986–2016–ICESIMP2016)



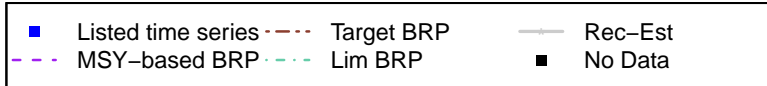
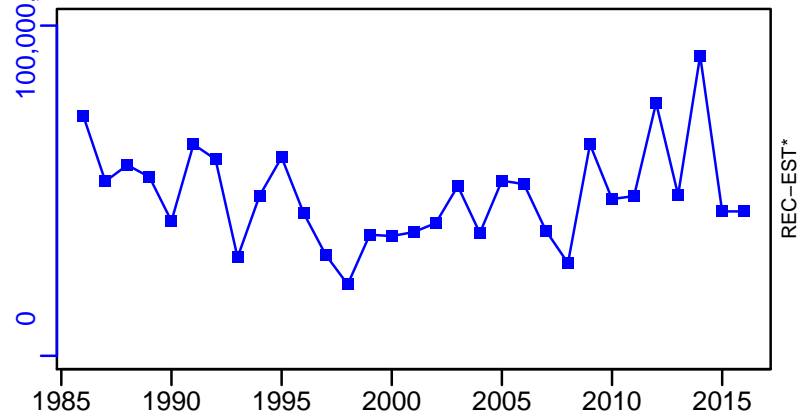
F-1/yr (1986–2016–ICESIMP2016)



ER-calc-ratio (1986–2016–ICESIMP2016)



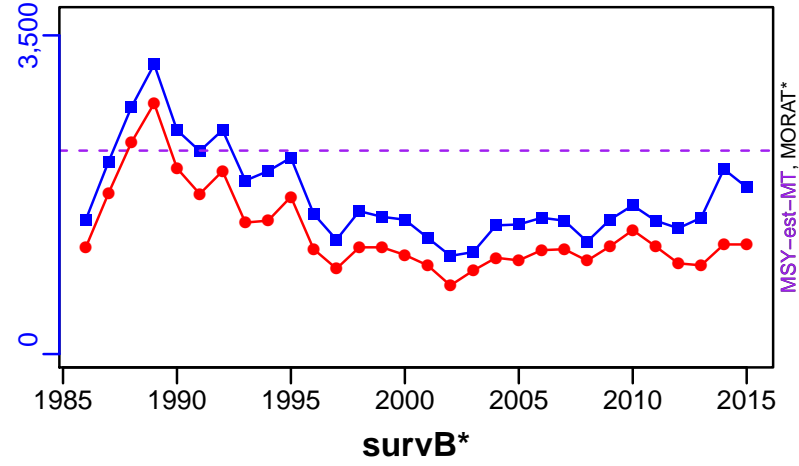
R-E00 (1986–2016–ICESIMP2016)



Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

TC-MT, TL-MT, RecC* (1986-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

Metadata	
Scientific Name	Phycis blennoides
Current Assess ID	WGDEEP-GFORKNEATL-2005-2016-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	2170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

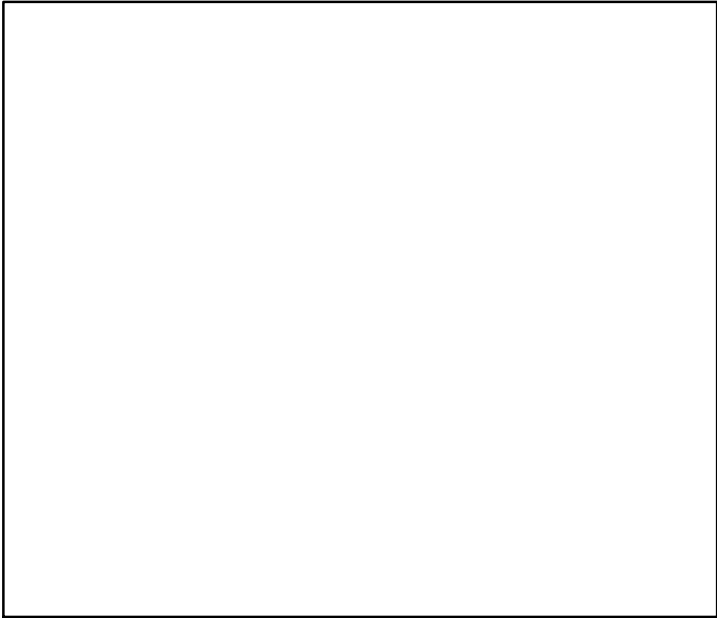
Kobe MSY*



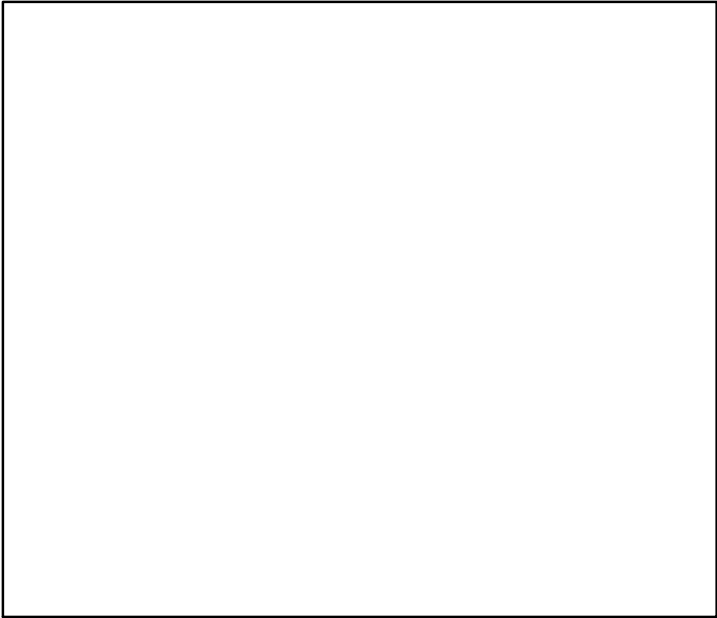
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Greater forkbeard Northeast Atlantic [GFORKNEATL]

TB*



SSB*



TN *



F*



ER*

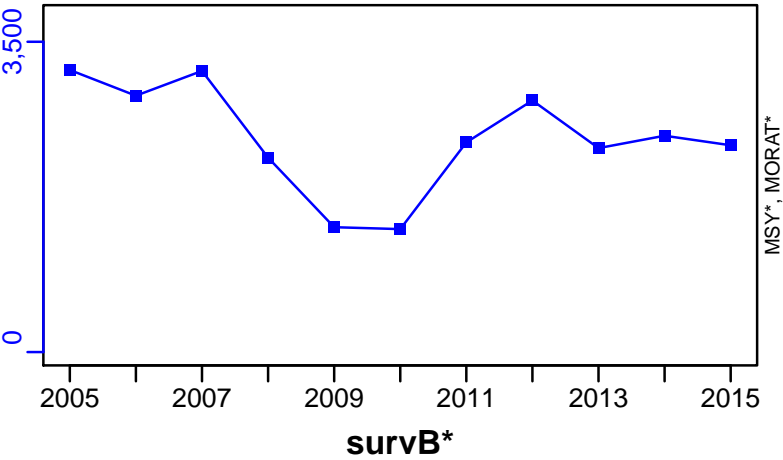


Recruits*



Greater forkbeard Northeast Atlantic [GFORKNEATL]

TL-MT, TC*, RecC* (2005–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Eutrigla gurnardus
Current Assess ID	WGNSSK-GGURNIIIa-IV-VIId-1983-2016-ICESIMP2016
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

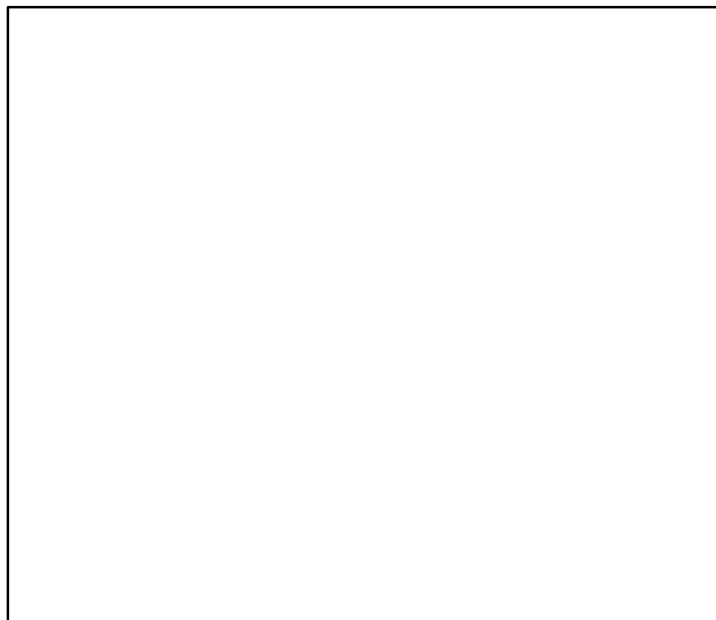
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



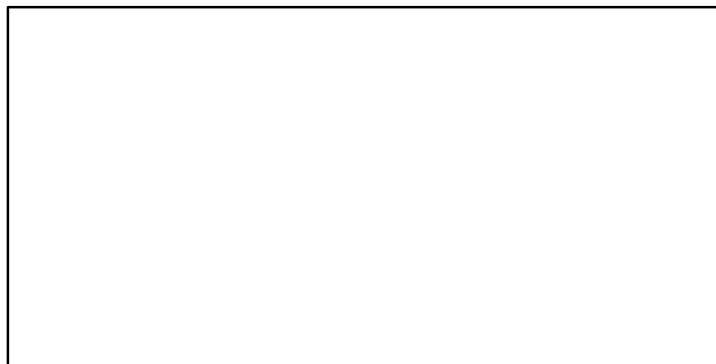
◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



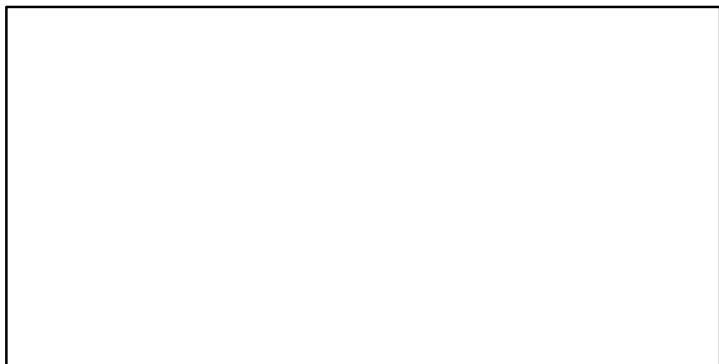
TN *



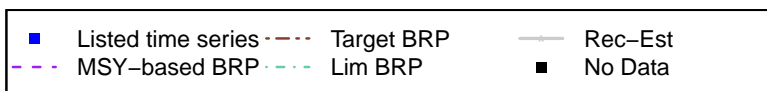
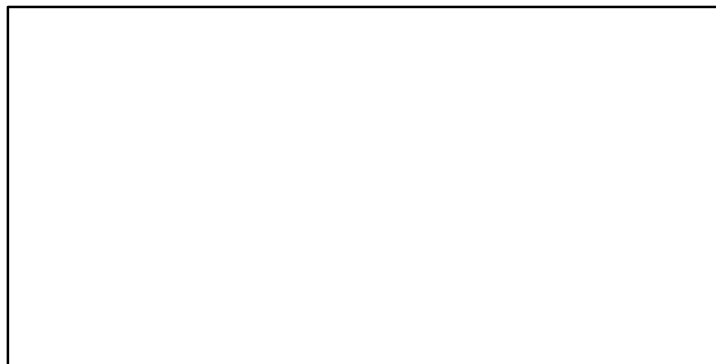
F*



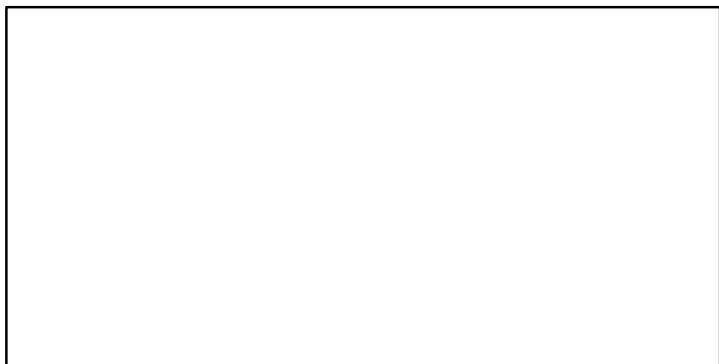
ER*



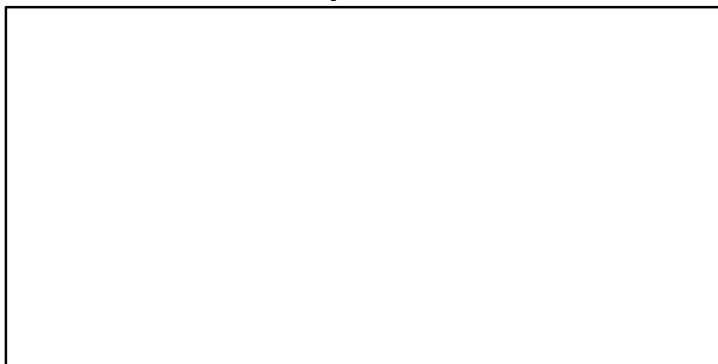
Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



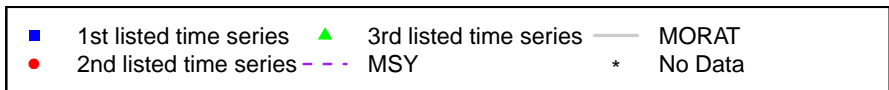
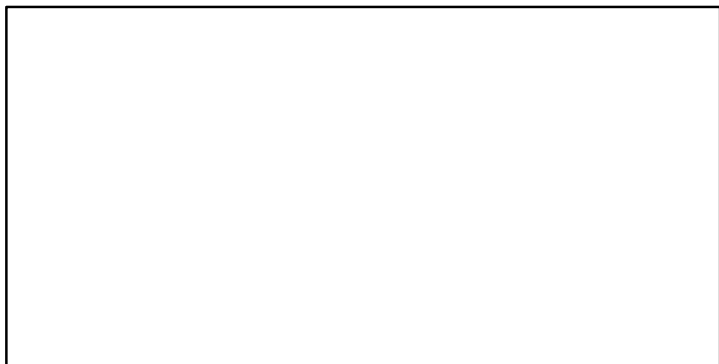
survB*



CPUE*



EFFORT*



Greenland halibut NAFO 01ABCDEF [GHAL01ABCDEF]

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

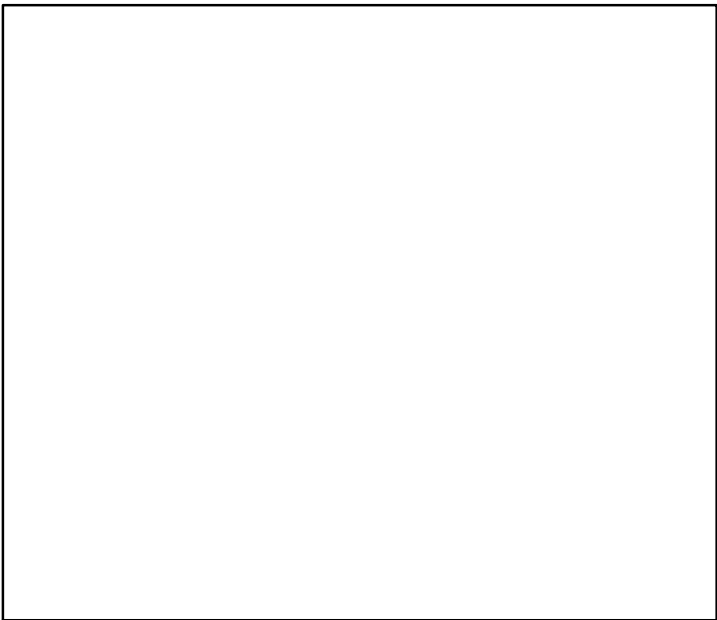
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2006	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-1-MT	2006	12,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



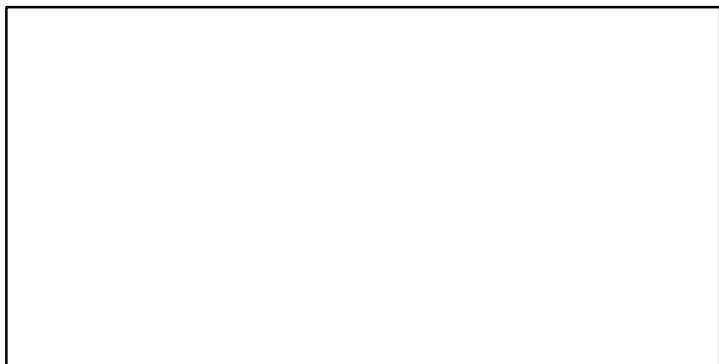
Production*



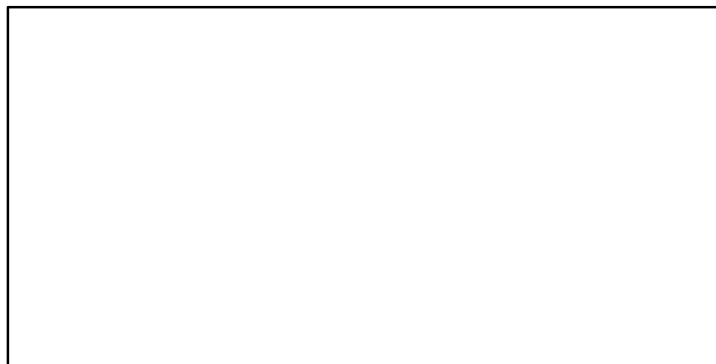
◆ Start Year ◆ End Year * No Data

Greenland halibut NAFO 01ABCDEF [GHAL01ABCDEF]

TB*



SSB*



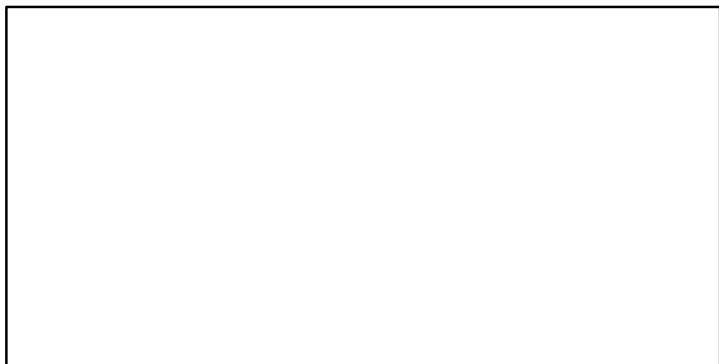
TN *



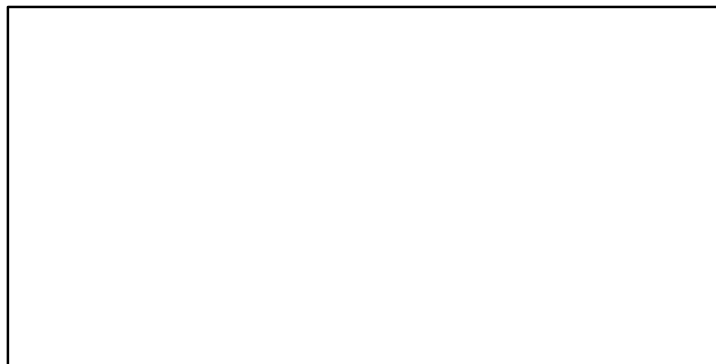
F*



ER*



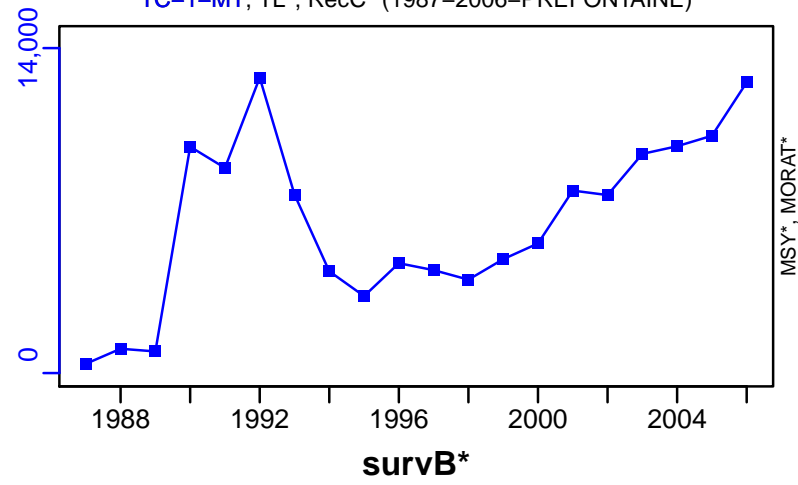
Recruits*



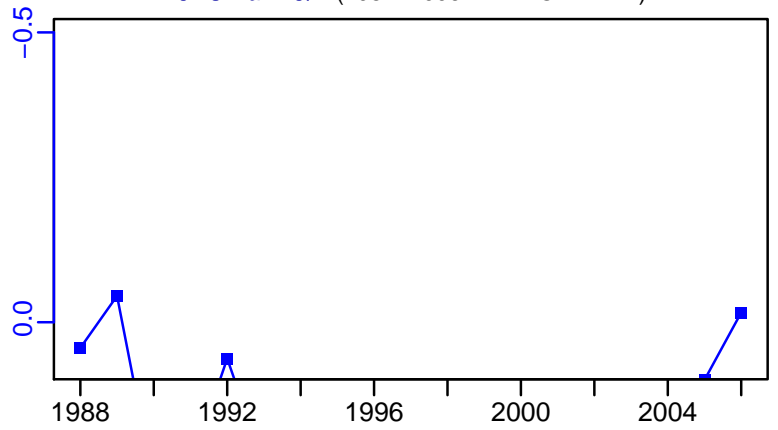
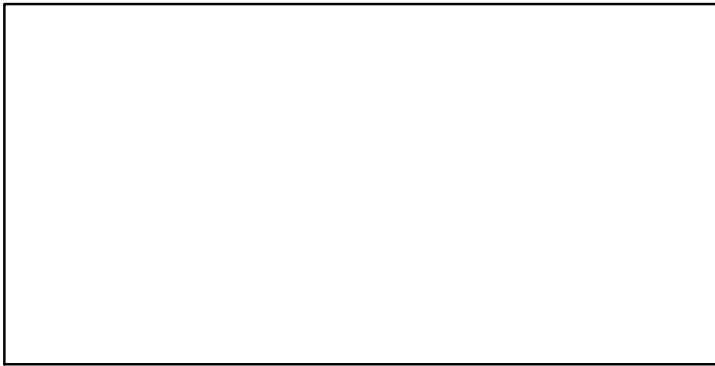
Greenland halibut NAFO 01ABCDEF [GHAL01ABCDEF]

TC-1-MT, TL*, RecC* (1987-2006-PREFONTAINE)

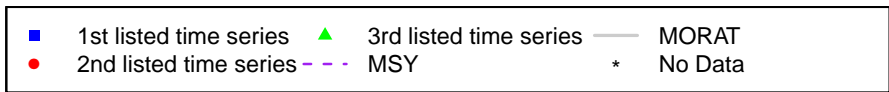
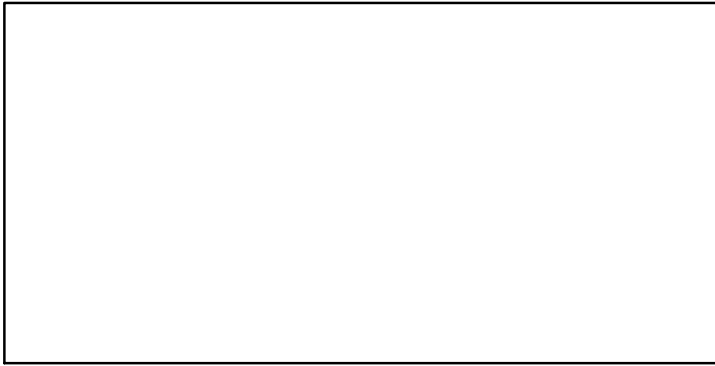
TAC*, Cpair*, Cadv*



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



EFFORT*



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

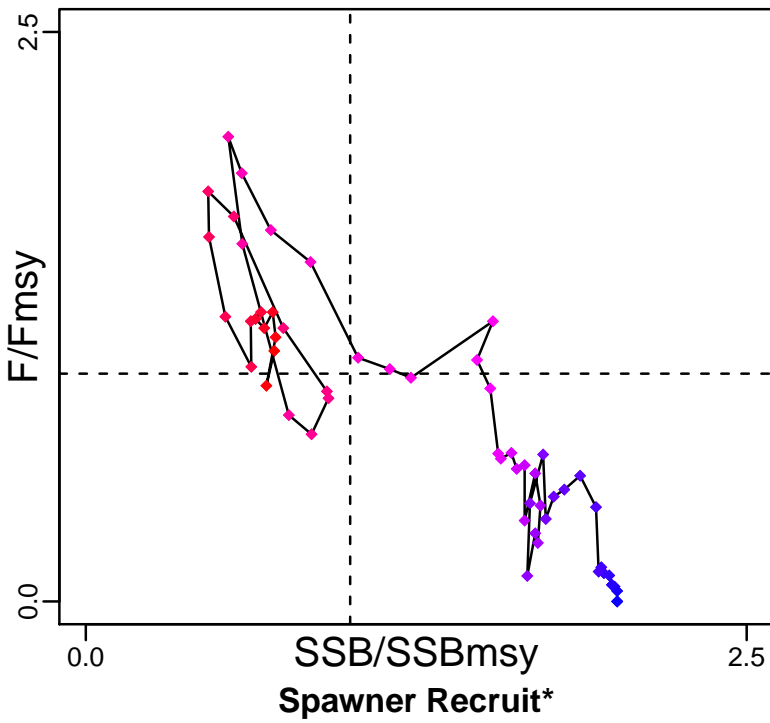
Metadata	
Scientific Name	Reinhardtius hippoglossoides
Current Assess ID	NWWG-GHALV-VI-XII-XIV-1960-2016-ICESIMP2016
Area	V-VI-XII-XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2012, 2013, 2014, 2015, 2016

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

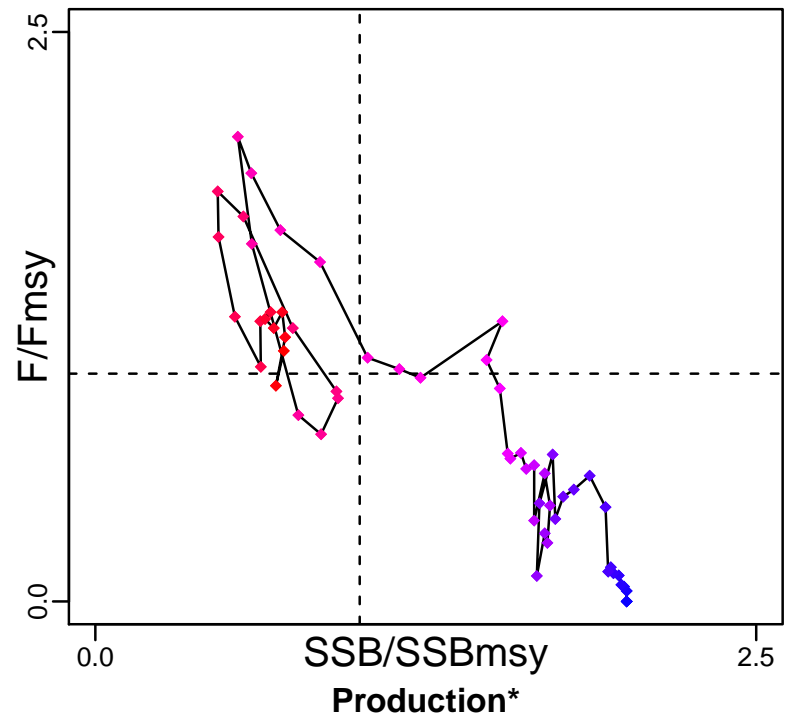
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1960–2016–ICESIMP2016)



Kobe MGTpref (1960–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

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

TB*



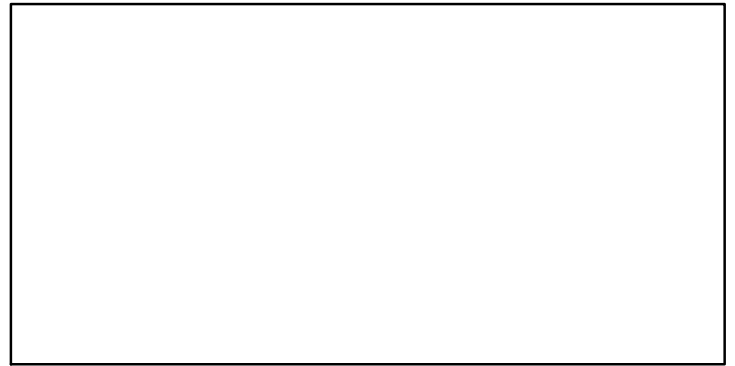
SSB*



TN *



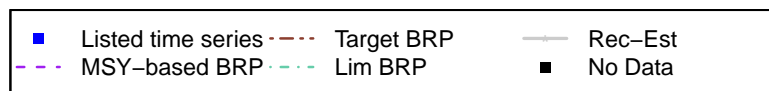
F*



ER*



Recruits*



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

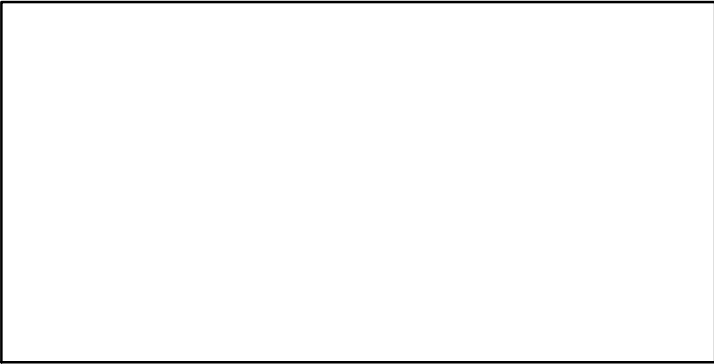
TC*, TL*, RecC*



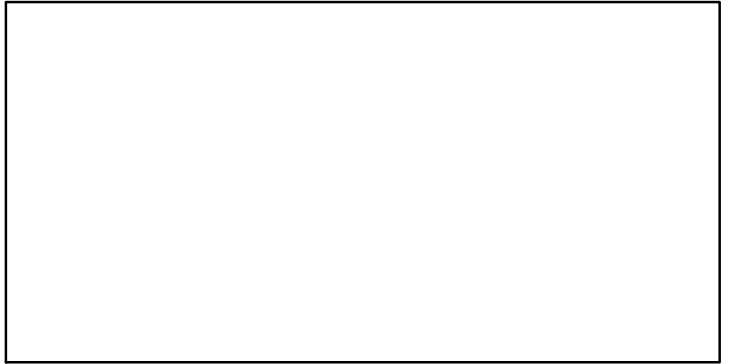
TAC*, Cpair*, Cadv*



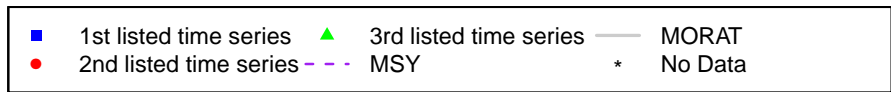
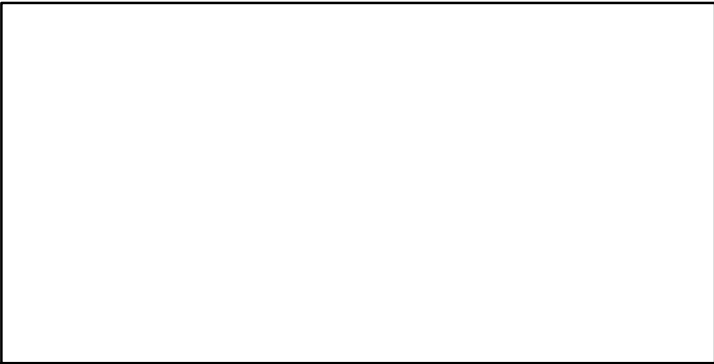
survB*



CPUE*



EFFORT*



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

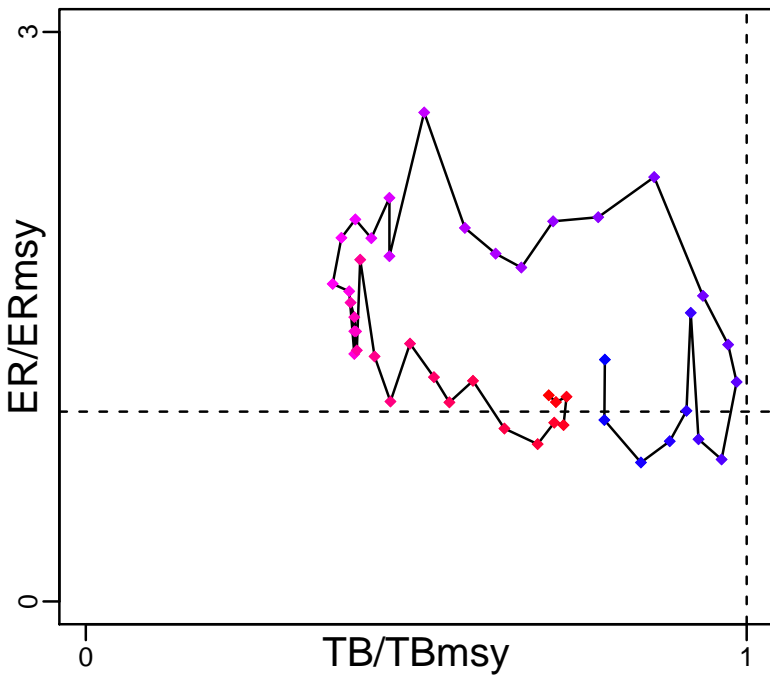
Metadata	
Scientific Name	Sebastes norvegicus
Current Assess ID	NWWG-GOLDREDV-VI-XII-XIV-1971-2016-ICESIMP2016
Area	V-VI-XII-XIV
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	773,579
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.1
ERmsy	ERmsy-est-ratio	2016	0.09
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	220,000
Fmgt	Fmgt-1/yr	2016	0.1
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	67,824
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	160,000
Flim	Flim-1/yr	2016	0.23
ERlim	-	-	-

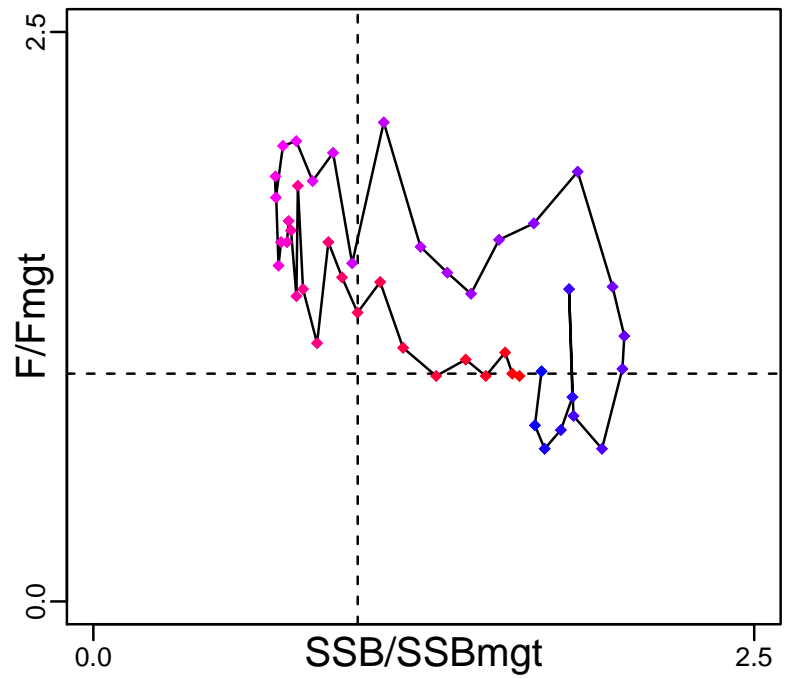
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.68		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.09		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

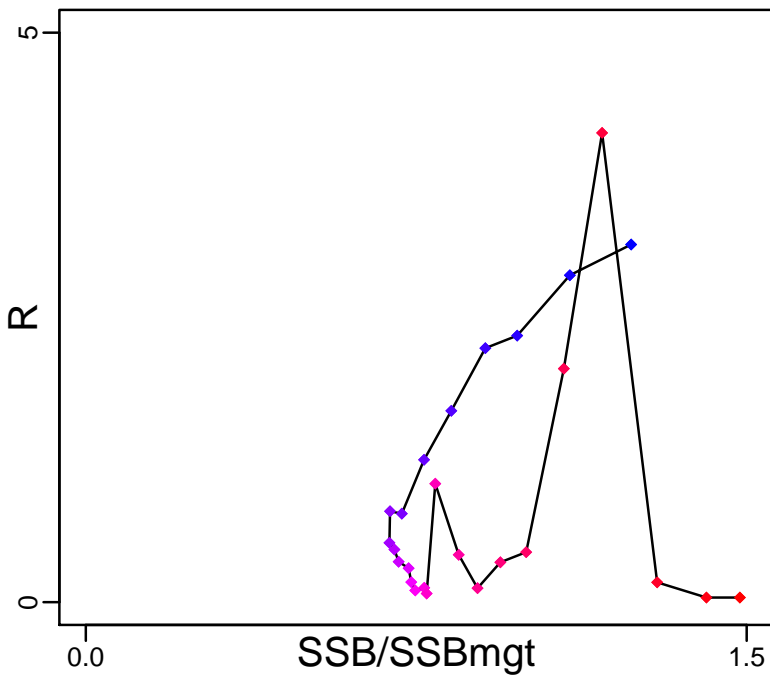
Kobe MSYpref (1971-2016-ICESIMP2016)



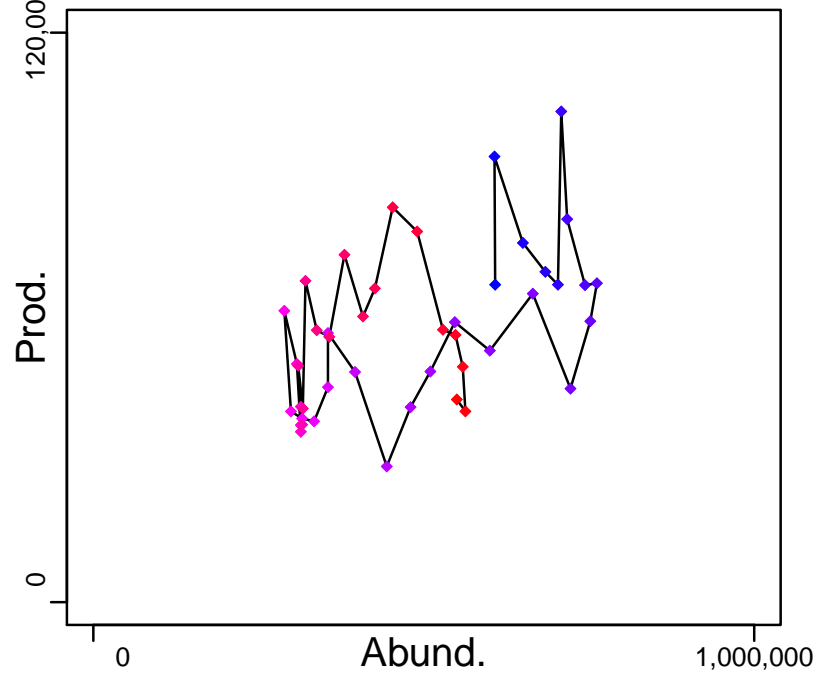
Kobe MGTpref (1971-2016-ICESIMP2016)



Spawner Recruit (1971-2016-ICESIMP2016)



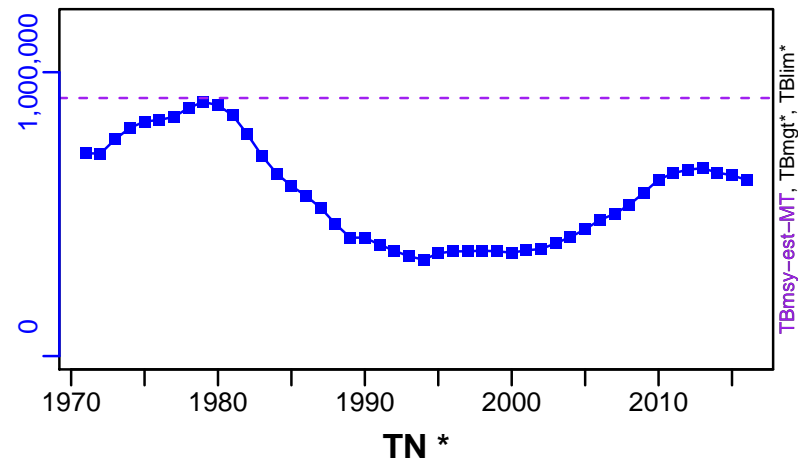
Production (1971-2016-ICESIMP2016)



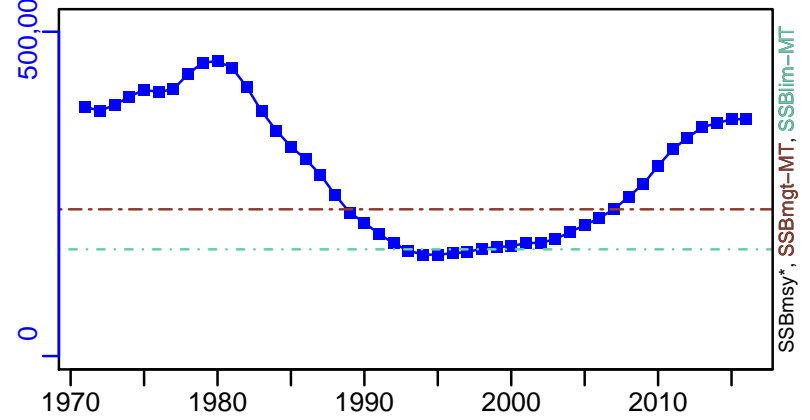
◆ Start Year ◆ End Year * No Data

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

TB-MT (1971-2016-ICESIMP2016)

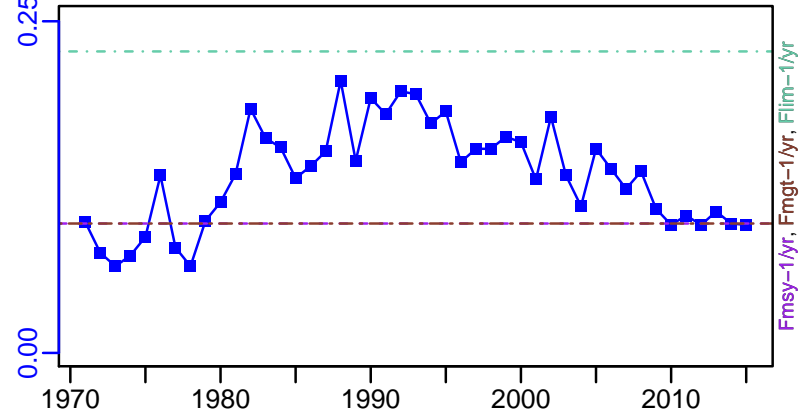


SSB-MT (1971-2016-ICESIMP2016)

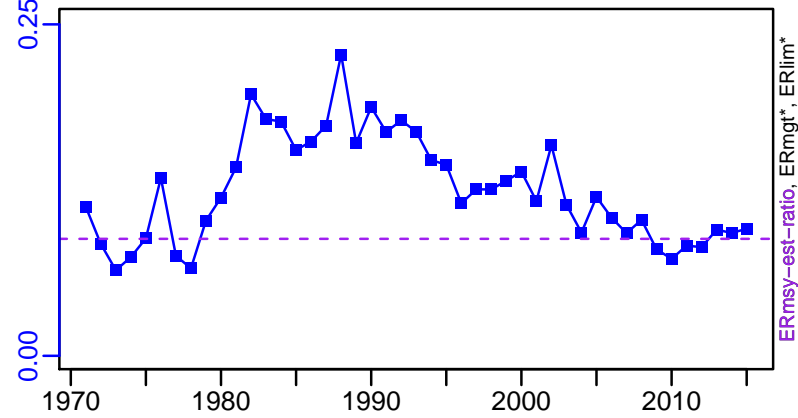


TN *

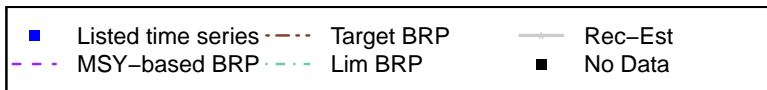
F-1/yr (1971-2016-ICESIMP2016)



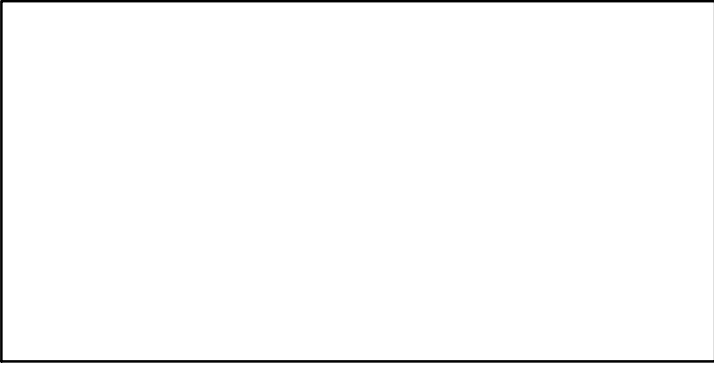
ER-calc-ratio (1971-2016-ICESIMP2016)



Recruits*



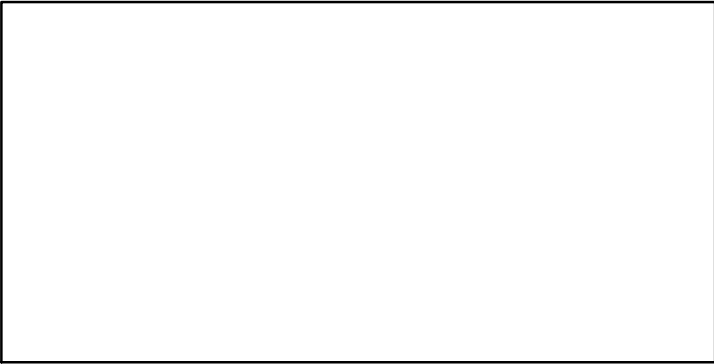
TC*, TL*, RecC*



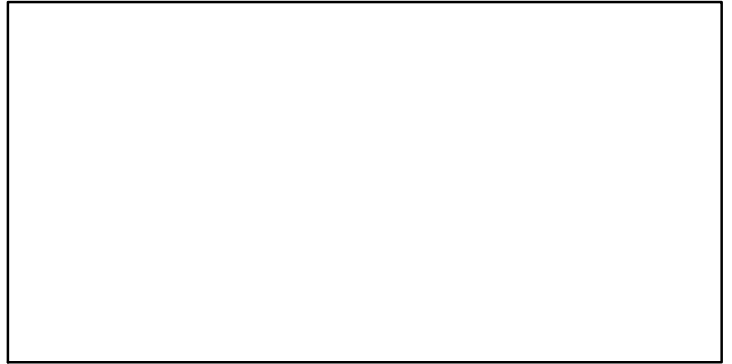
TAC*, Cpair*, Cadv*



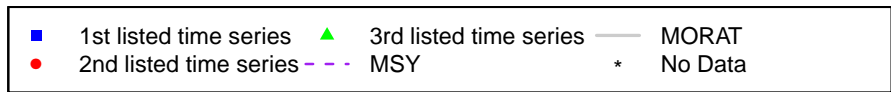
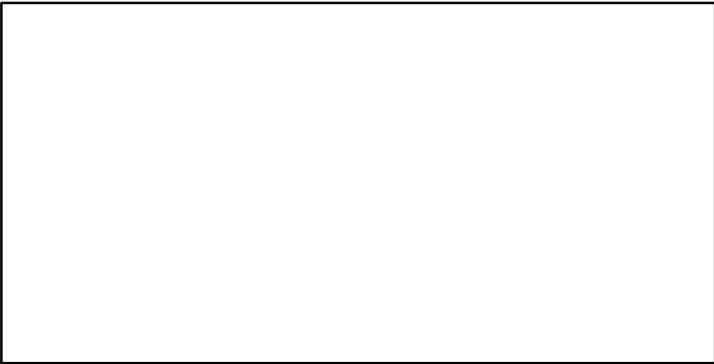
survB*



CPUE*



EFFORT*

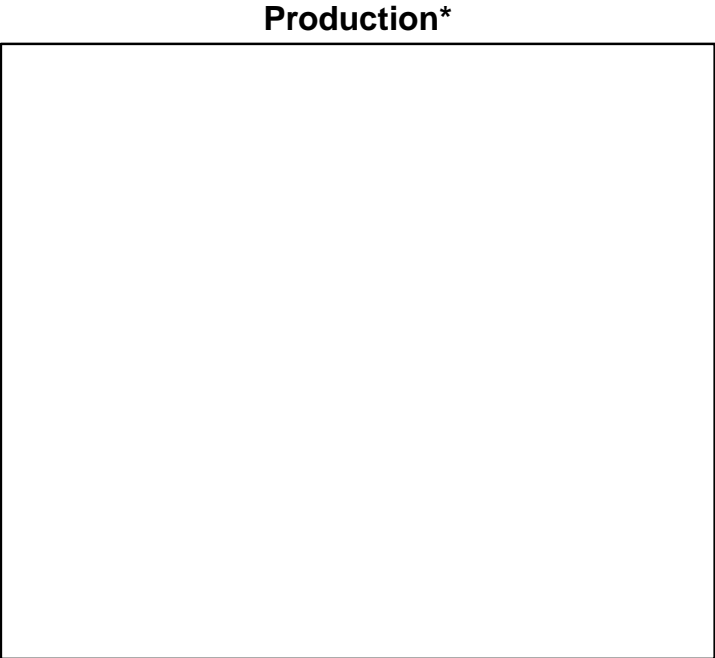
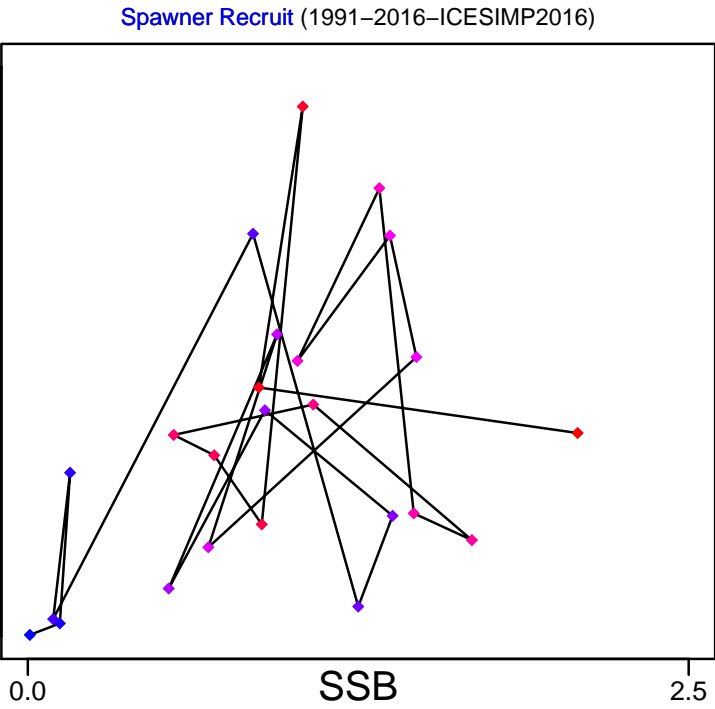
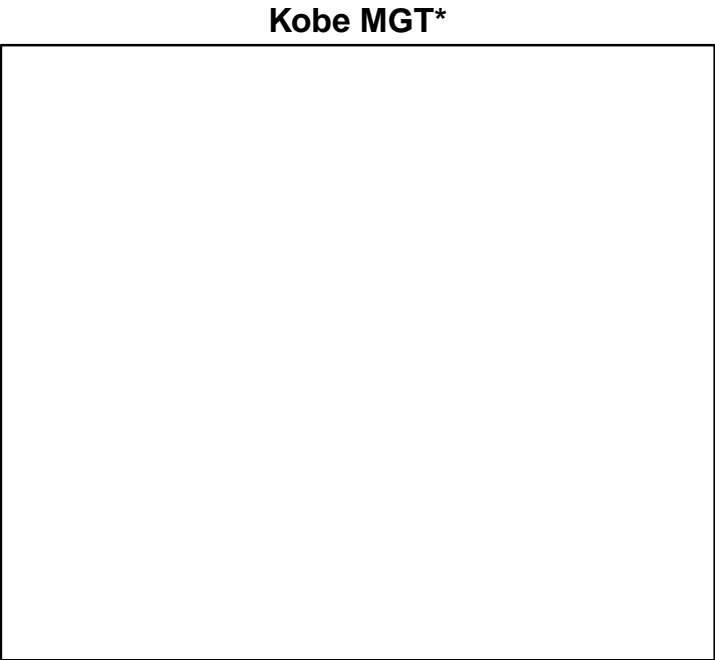
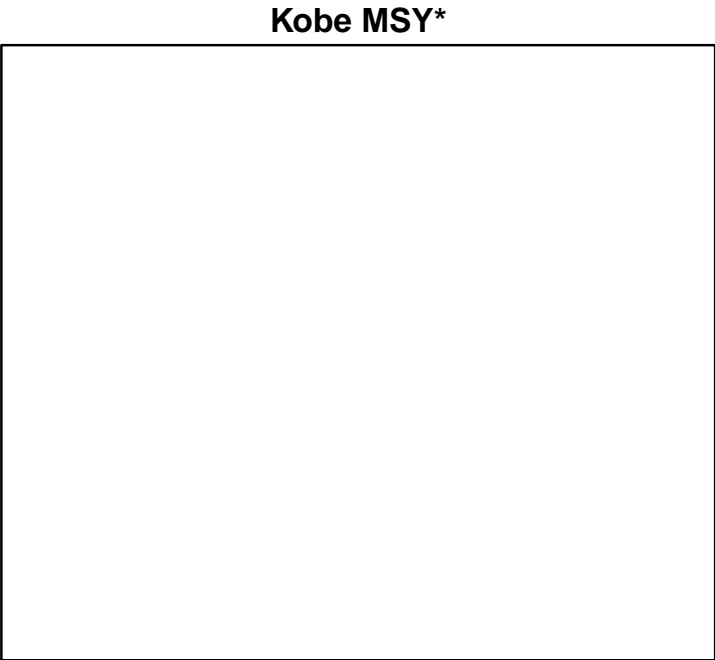


Haddock Irish Sea [HADIS]

Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADIS-1991-2016-ICESIMP2016
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, 2012

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

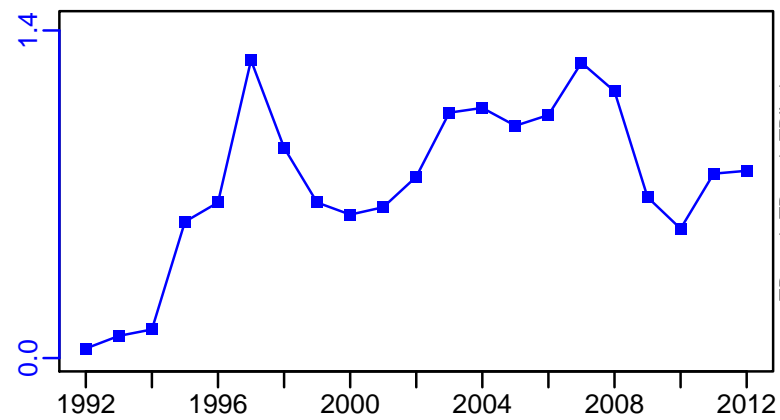
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2012	1	-	-
SSB	SSB-relative	2016	3	-	-
TN	-	-	-	-	-
R	R-relative	2016	1	-	1
F	F-relative	2016	1	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	1010		
TL	TL-MT	2016	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



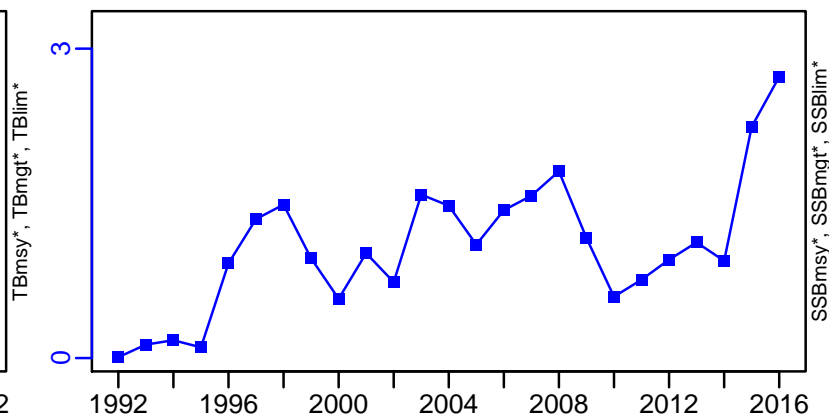
◆ Start Year ◆ End Year * No Data

Haddock Irish Sea [HADIS]

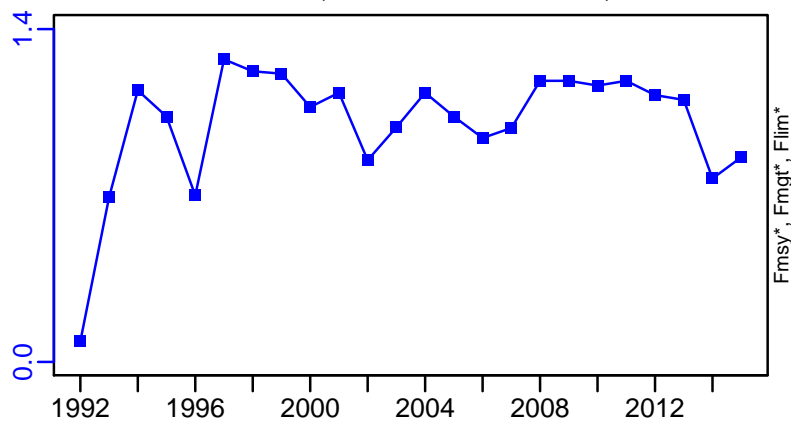
TB-relative (1972–2012–CHING)



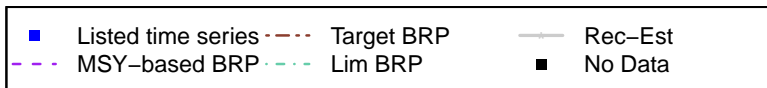
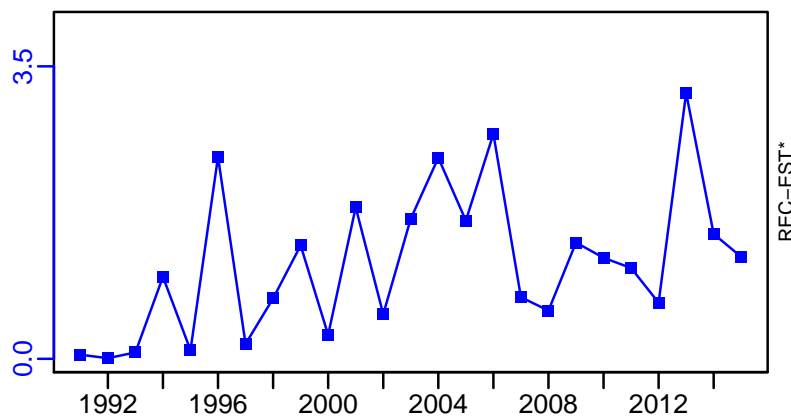
SSB-relative (1991–2016–ICESIMP2016)



F-relative (1991–2016–ICESIMP2016)

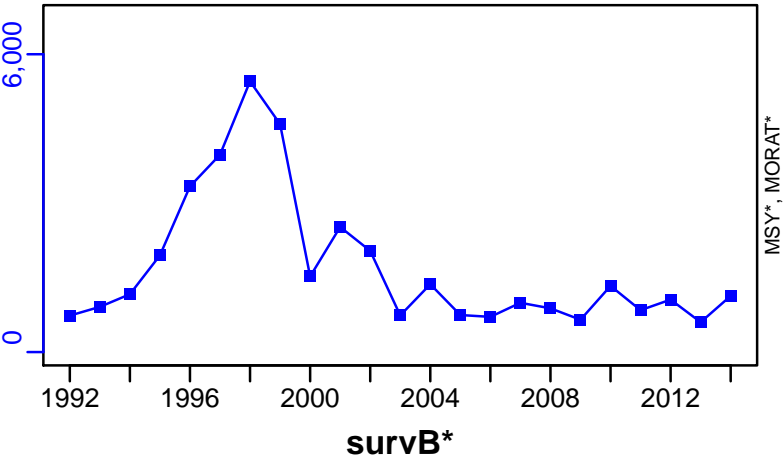


R-relative (1991–2016–ICESIMP2016)



Haddock Irish Sea [HADIS]

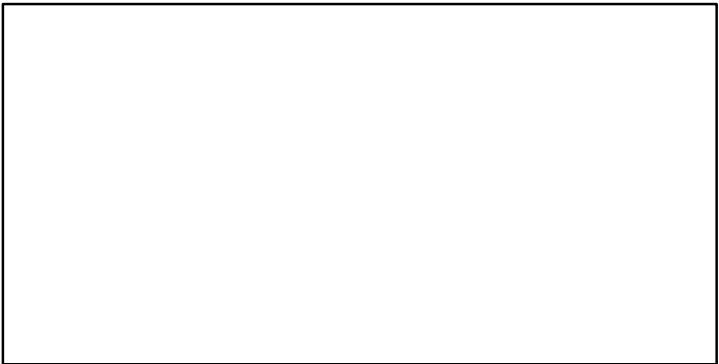
TC-MT, TL*, RecC* (1991-2015-ICESIMP2016)



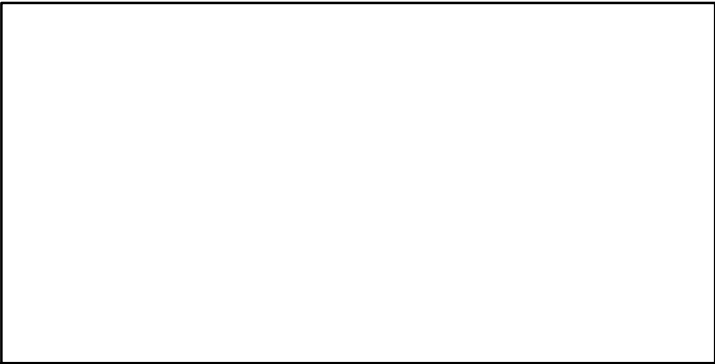
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

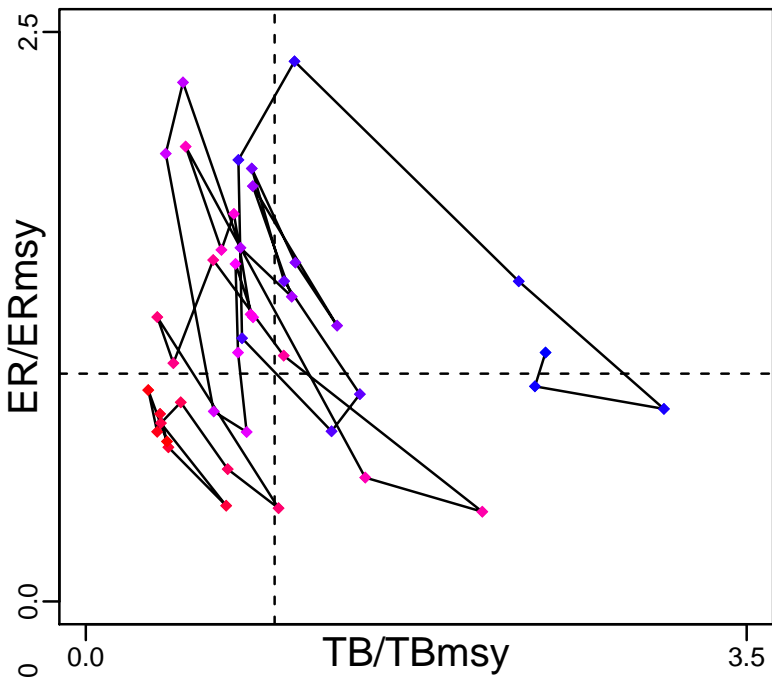
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGNSSK-HADNS-IIIa-VIa-1972-2015-ICESIMP2016
Area	North Sea and IIIa-VIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	1,072,548
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.37
ERmsy	ERmsy-est-ratio	2015	0.14
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	88,000
Fmgt	Fmgt-1/yr	2015	0.37
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	153,414
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	63,000
Flim	-	-	-
ERlim	-	-	-

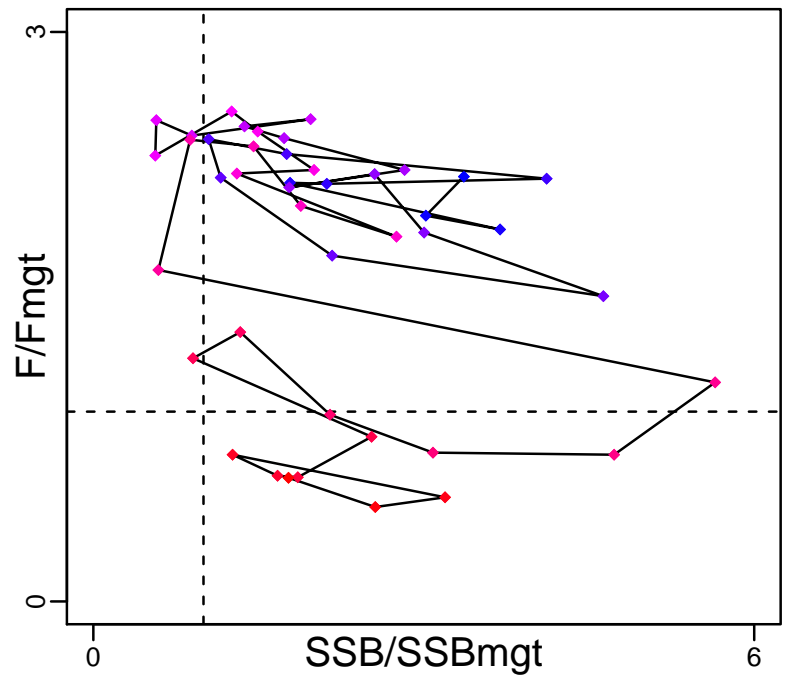
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.47	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.7	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

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

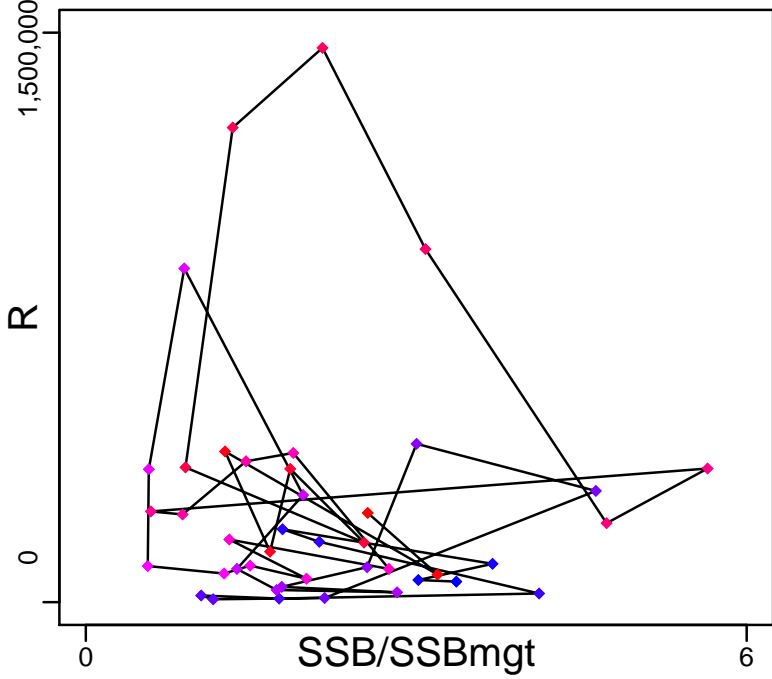
Kobe MSYpref (1972–2015–ICESIMP2016)



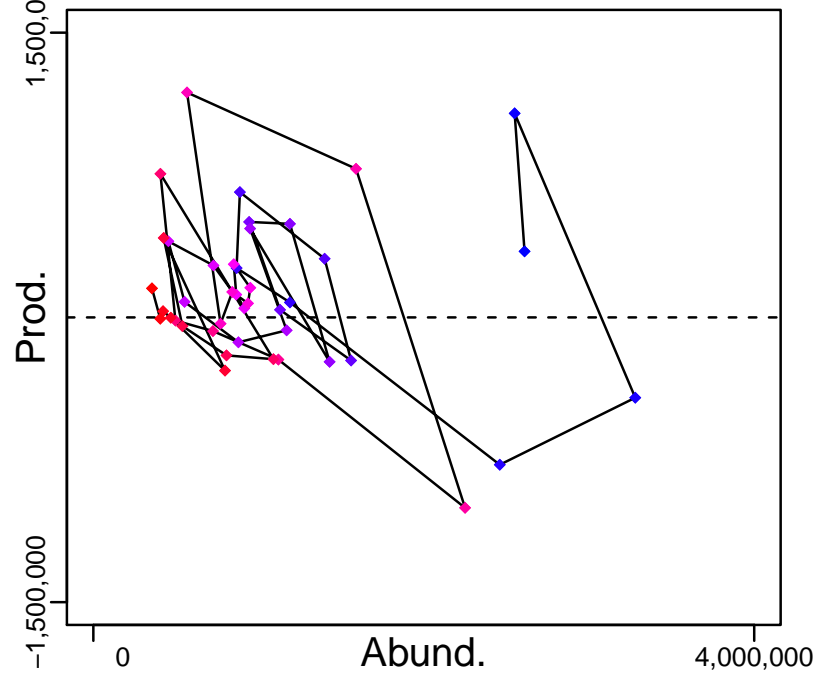
Kobe MGTpref (1972–2015–ICESIMP2016)



Spawner Recruit (1972–2015–ICESIMP2016)



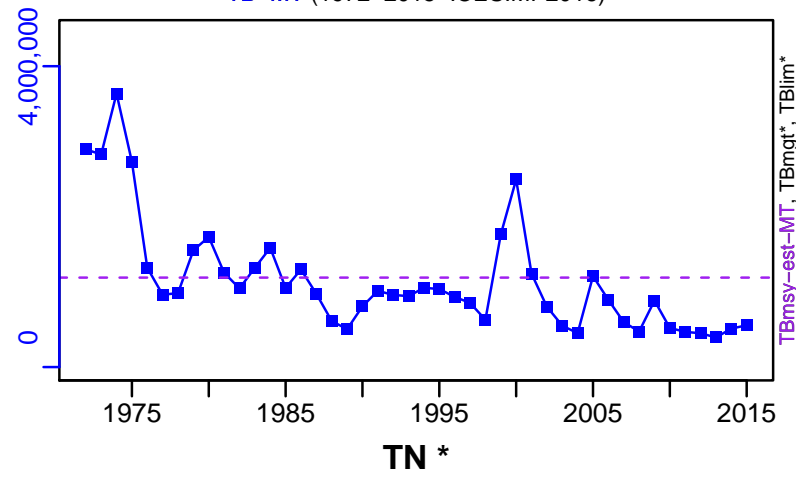
Production (1972–2015–ICESIMP2016)



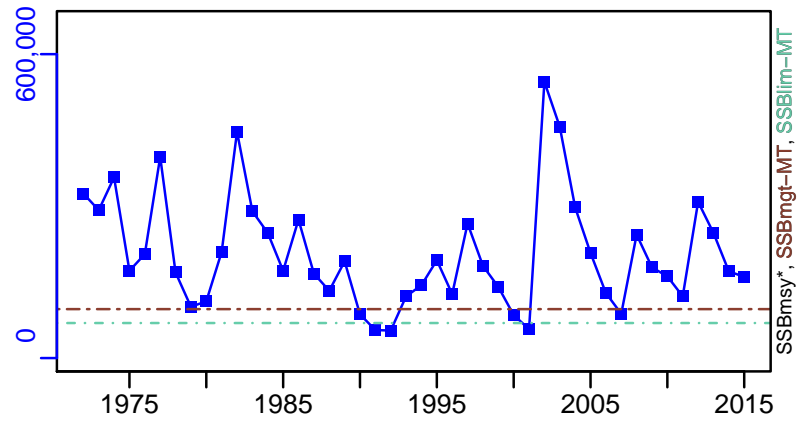
◆ Start Year ◆ End Year * No Data

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

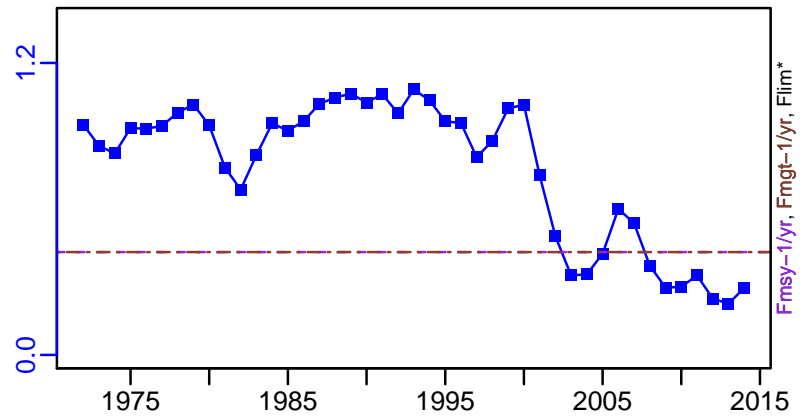
TB-MT (1972–2015–ICESIMP2016)



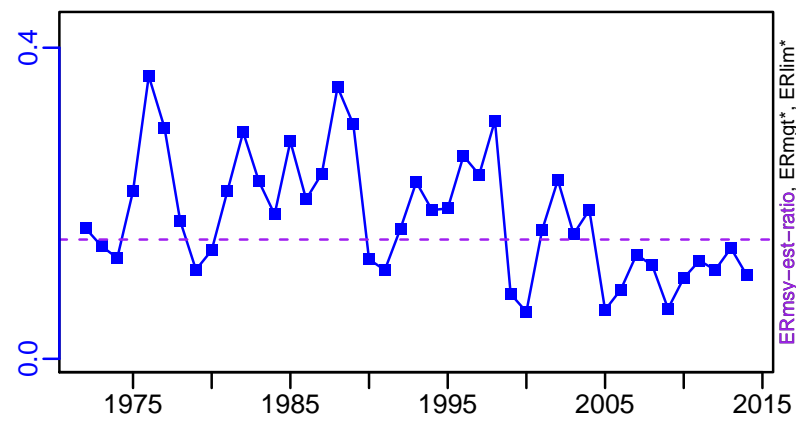
SSB-MT (1972–2015–ICESIMP2016)



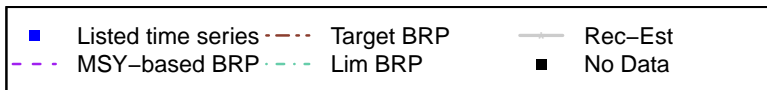
F-1/yr (1972–2015–ICESIMP2016)



ER-calc-ratio (1972–2015–ICESIMP2016)



Recruits*



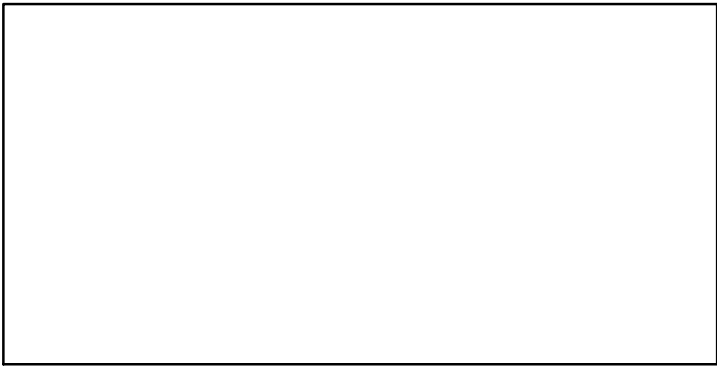
TC*, TL*, RecC*



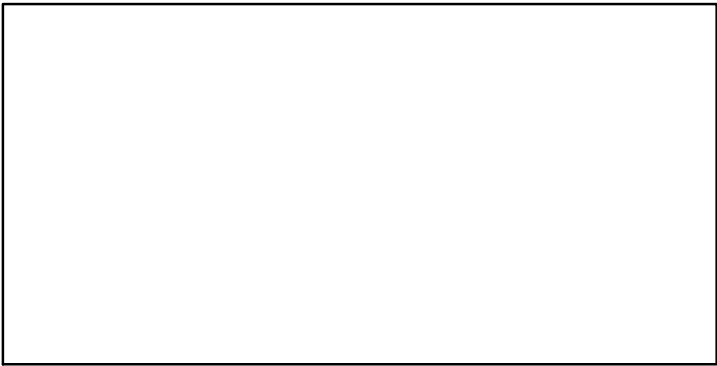
TAC*, Cpair*, Cadv*



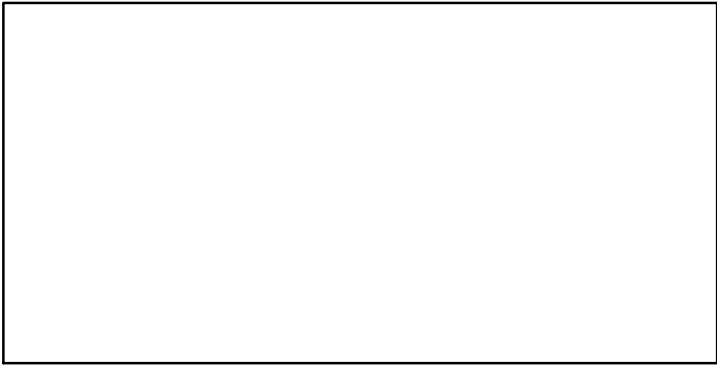
survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

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MORAT

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No Data

Haddock Rockall Bank [HADROCK]

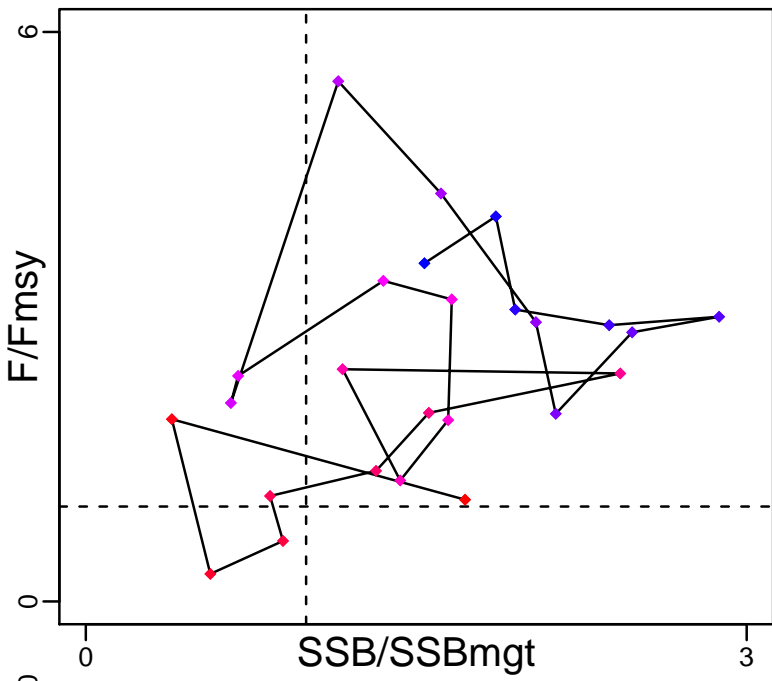
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADROCK-1990-2016-ICESIMP2016
Area	Rockall Bank
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	10,200
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	9000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	6800
Flim	Flim-1/yr	2016	0.69
ERlim	-	-	-

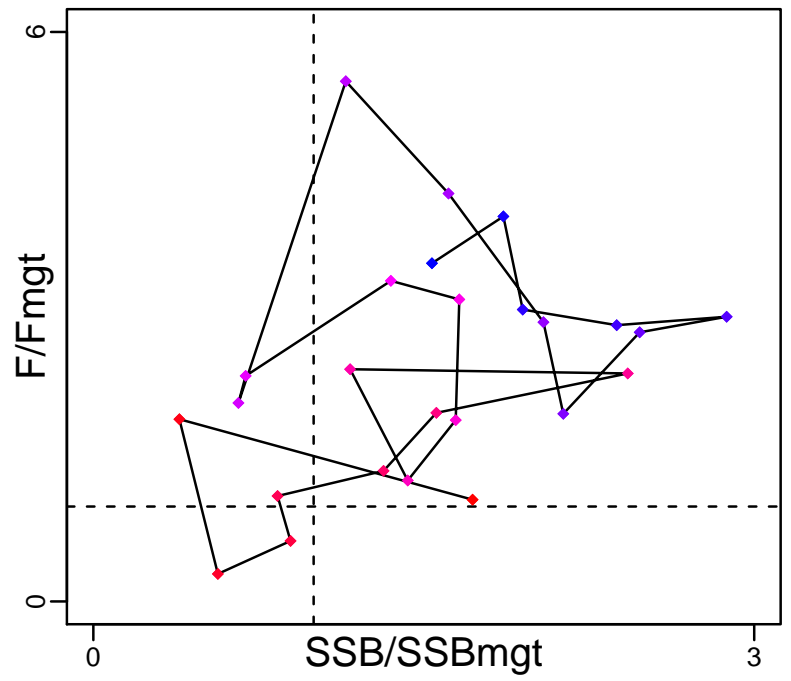
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	28,300	-	-
SSB	SSB-MT	2016	23,600	-	-
TN	-	-	-	-	-
R	R-E00	2016	11,300,000	-	1
F	F-1/yr	2016	0	-	2 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	2970		
TL	TL-MT	2016	2450		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.07		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	2.31		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.07		
ER/ERmgt	-	-	-		

Haddock Rockall Bank [HADROCK]

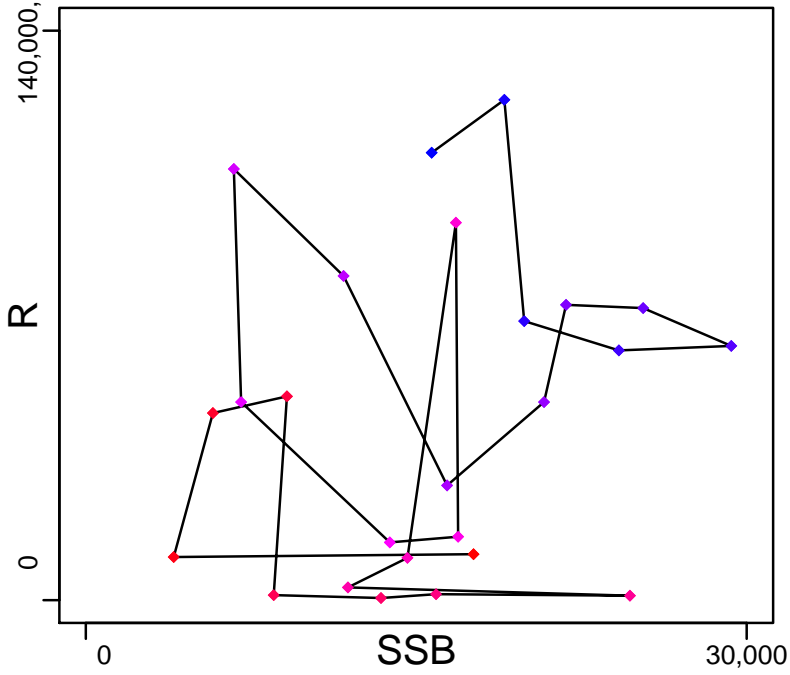
Kobe MSYpref (1990–2016–ICESIMP2016)



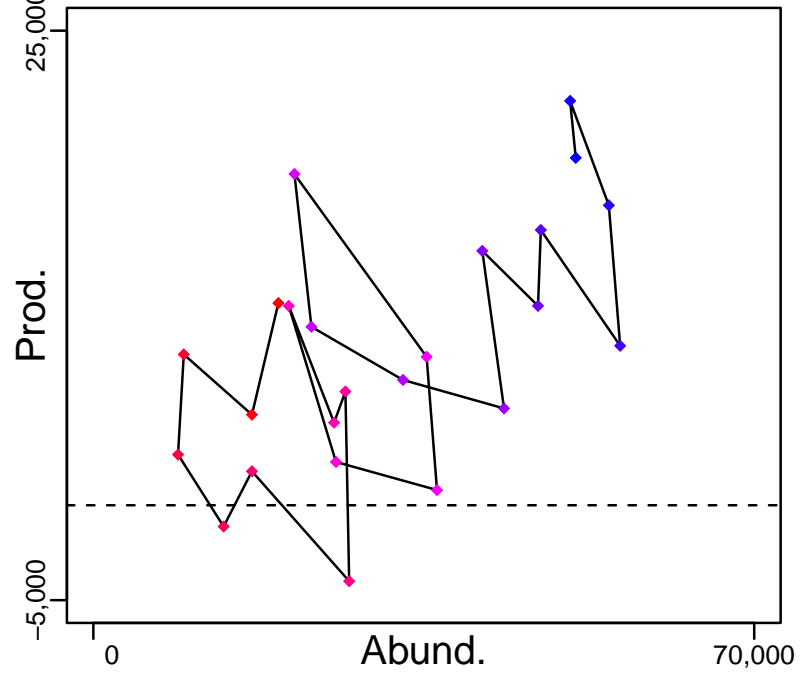
Kobe MGTpref (1990–2016–ICESIMP2016)



Spawner Recruit (1990–2016–ICESIMP2016)



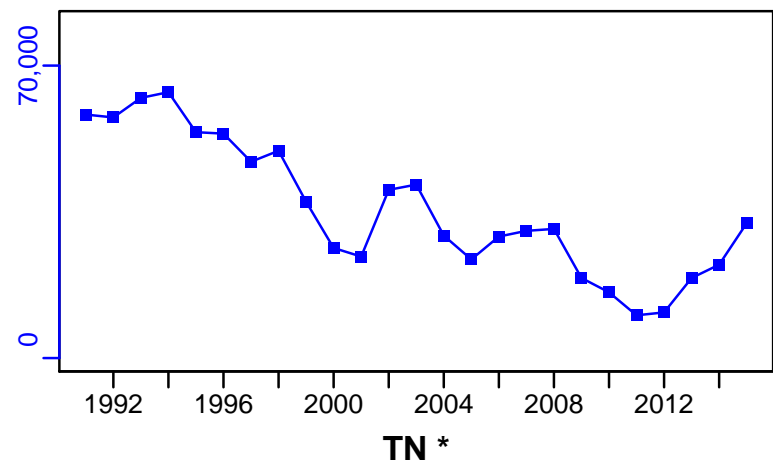
Production (1990–2016–ICESIMP2016)



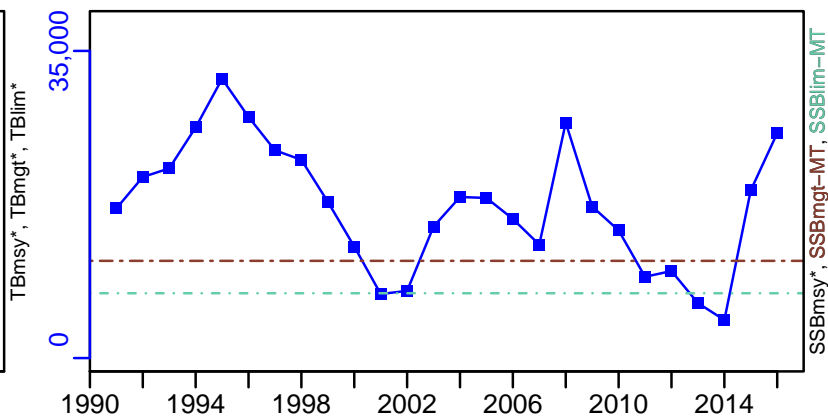
◆ Start Year ◆ End Year * No Data

Haddock Rockall Bank [HADROCK]

TB-MT (1990–2016–ICESIMP2016)



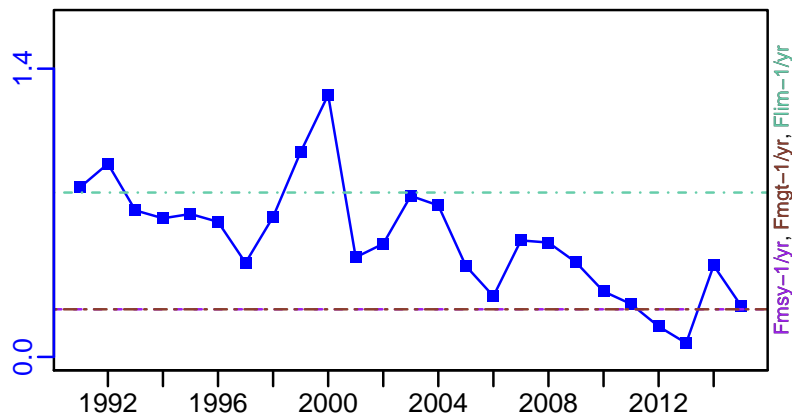
SSB-MT (1990–2016–ICESIMP2016)



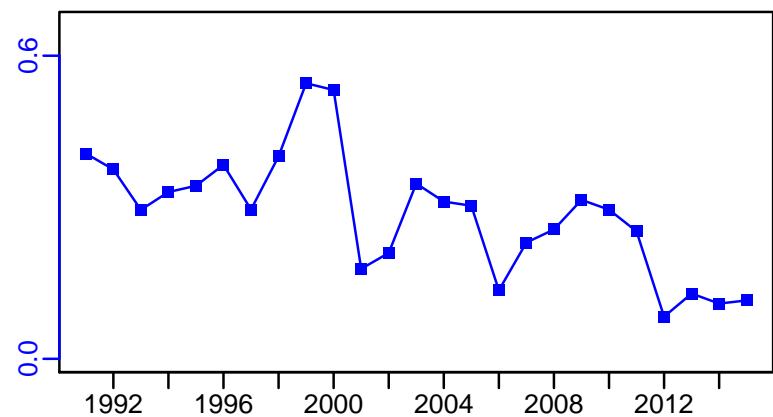
TN *



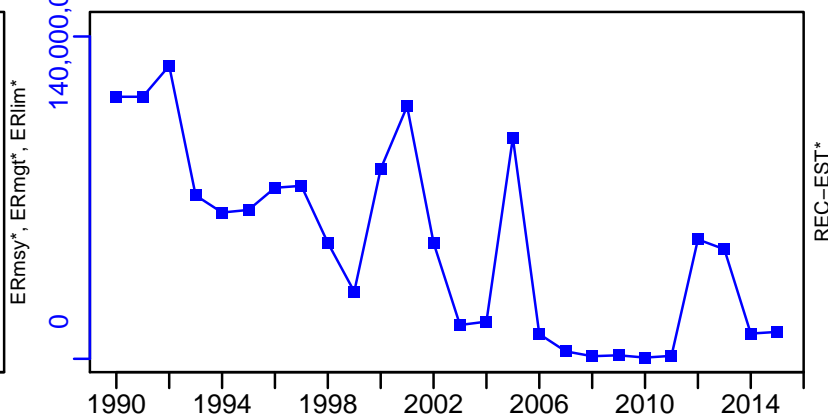
F-1/yr (1990–2016–ICESIMP2016)



ER-calc-ratio (1990–2016–ICESIMP2016)

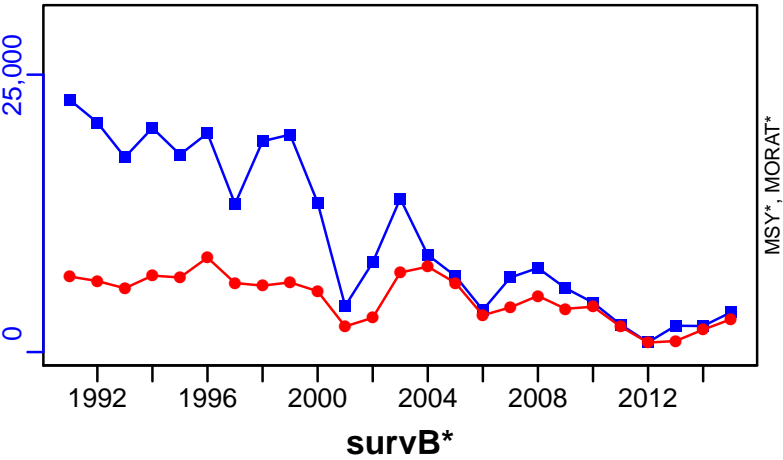


R-E00 (1990–2016–ICESIMP2016)



Haddock Rockall Bank [HADROCK]

TC-MT, TL-MT, RecC* (1990-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Haddock ICES VIIb-k [HADVIIb-k]

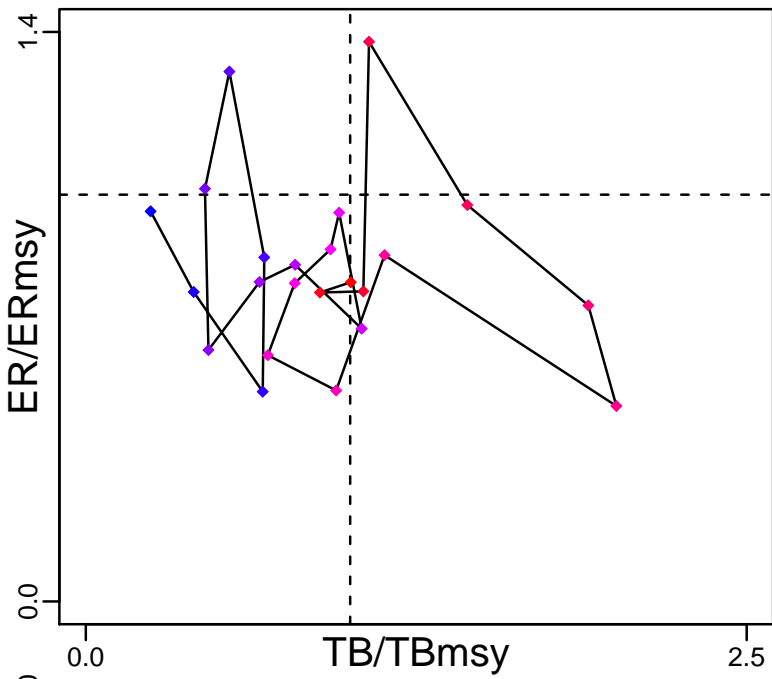
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	WGCSE-HADVIIb-k-1993-2016-ICESIMP2016
Area	ICES VIIb-k
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	67,697
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.4
ERmsy	ERmsy-est-ratio	2016	0.29
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	10,000
Fmgt	Fmgt-1/yr	2016	0.4
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	19,379
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	6700
Flim	Flim-1/yr	2016	1.41
ERlim	-	-	-

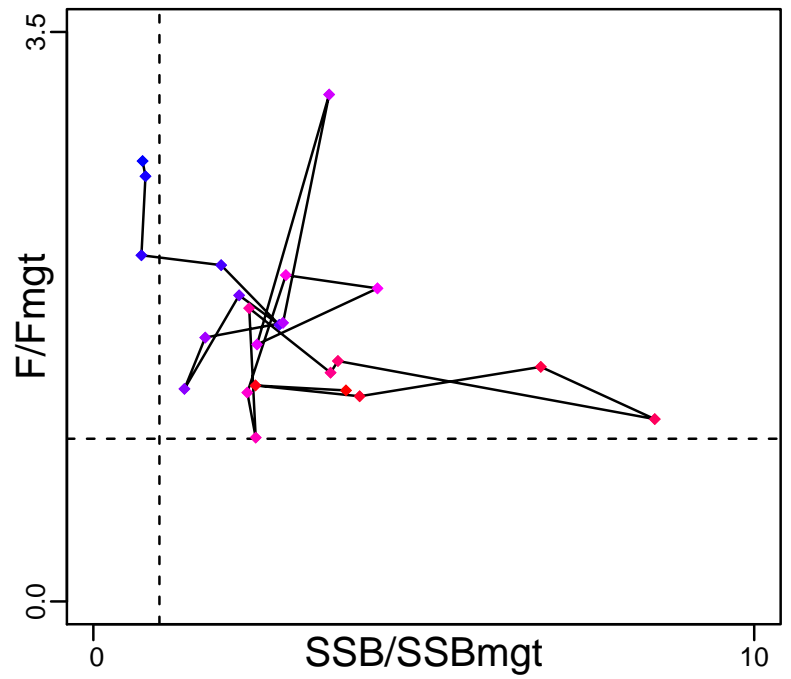
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.78		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock ICES VIIb-k [HADVIIb-k]

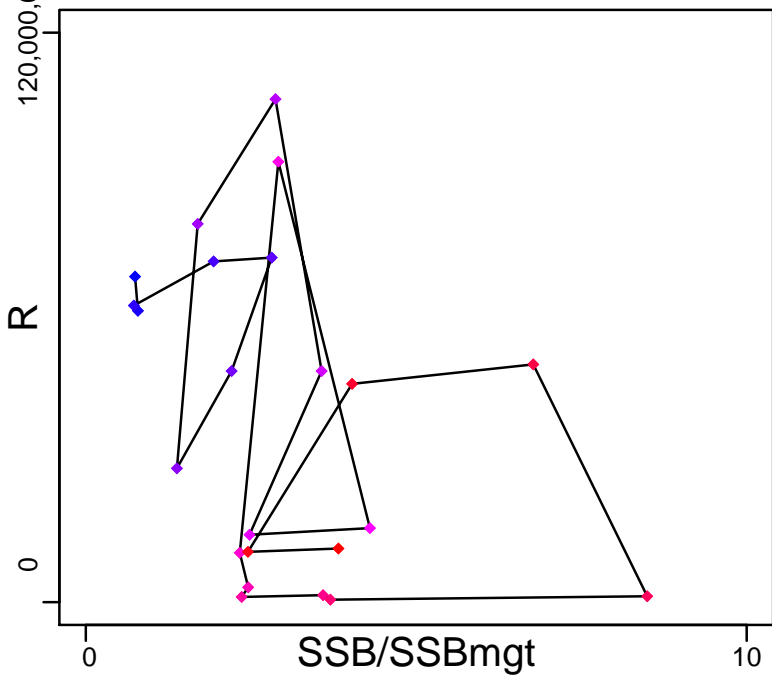
Kobe MSYpref (1993–2016–ICESIMP2016)



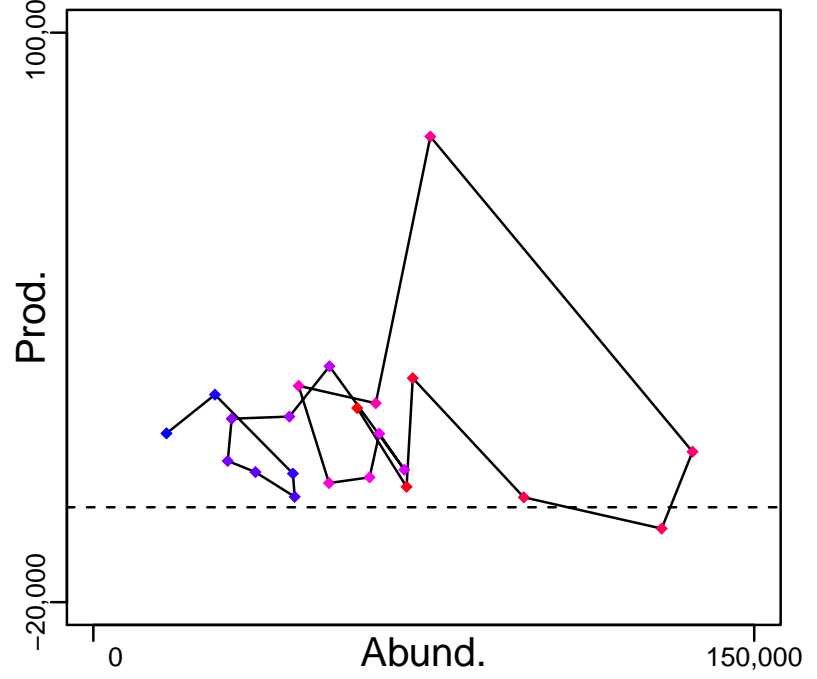
Kobe MGTpref (1993–2016–ICESIMP2016)



Spawner Recruit (1993–2016–ICESIMP2016)



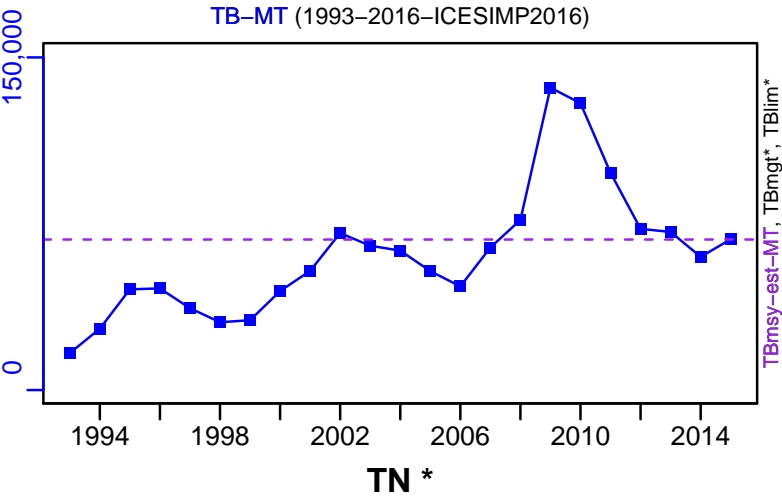
Production (1993–2016–ICESIMP2016)



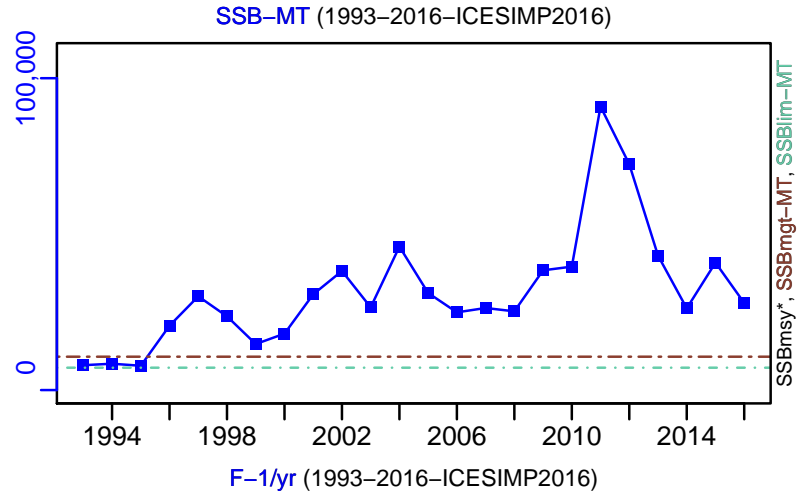
◆ Start Year ◆ End Year * No Data

Haddock ICES VIIb-k [HADVIIb-k]

TB-MT (1993–2016–ICESIMP2016)

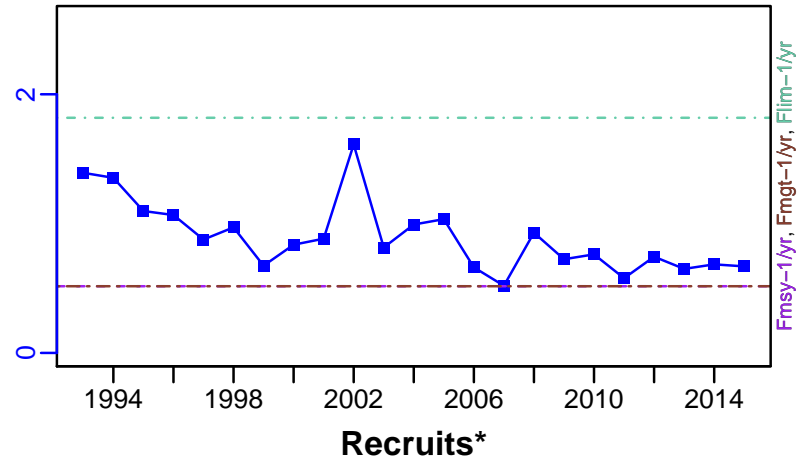


SSB-MT (1993–2016–ICESIMP2016)



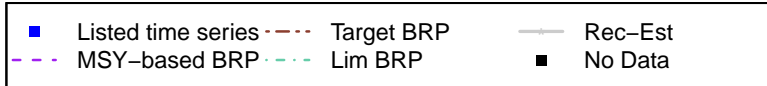
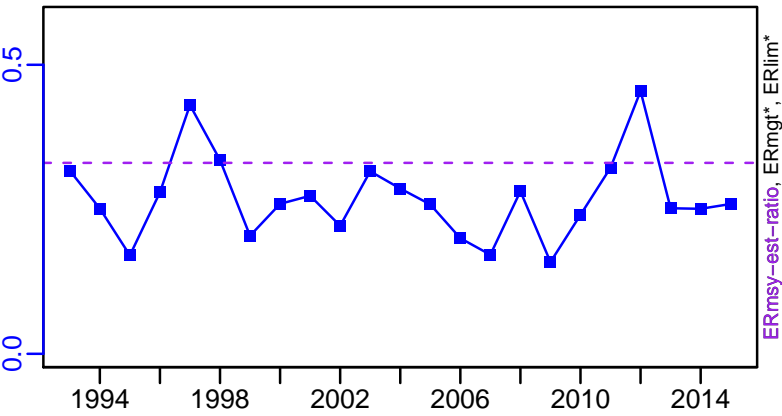
TN *

F-1/yr (1993–2016–ICESIMP2016)

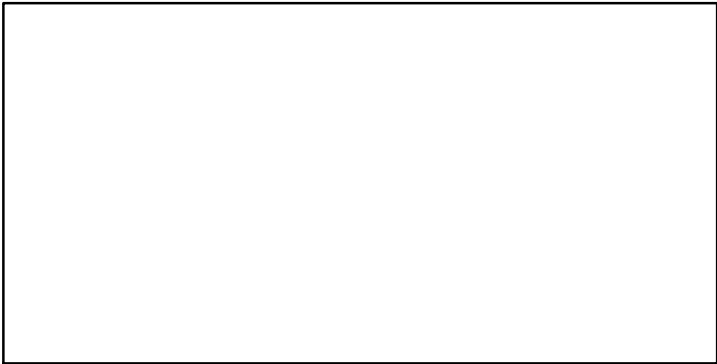


Recruits*

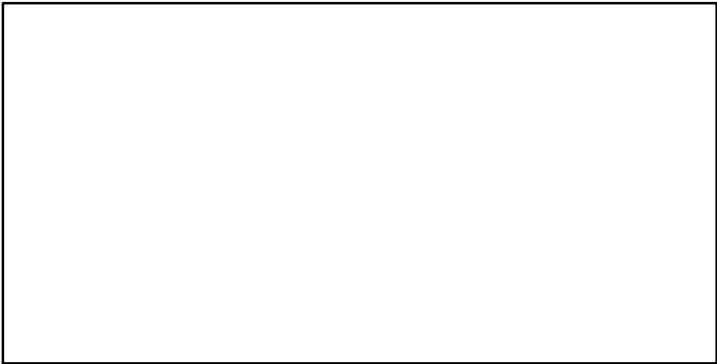
ER-calc-ratio (1993–2016–ICESIMP2016)



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Hake Northeast Atlantic North [HAKENRTN]

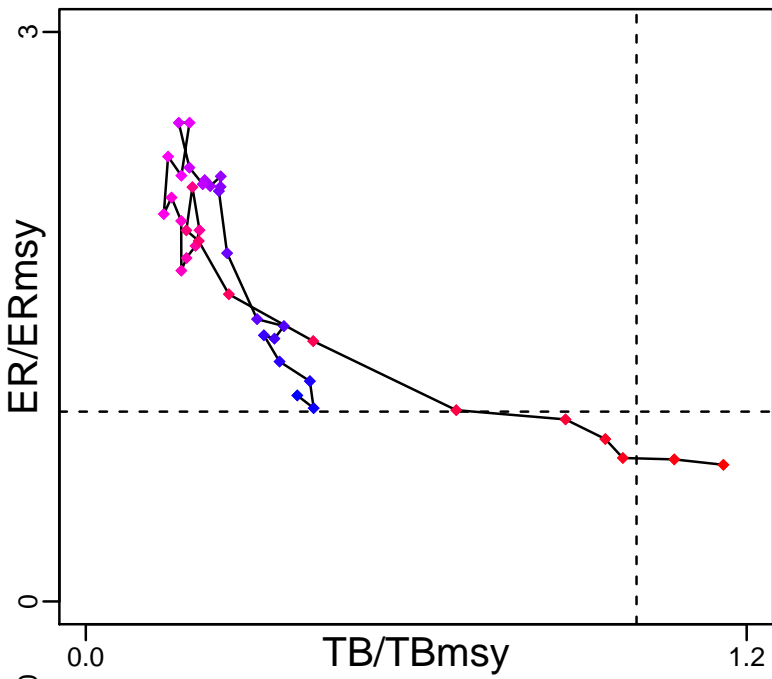
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKENRTN-1978-2016-ICESIMP2016
Area	IIIa-IV-VI-VII-VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	314,109
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.28
ERmsy	ERmsy-est-ratio	2016	0.39
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	45,000
Fmgt	Fmgt-1/yr	2016	0.28
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	121,296
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	32,000
Flim	Flim-1/yr	2016	0.87
ERlim	-	-	-

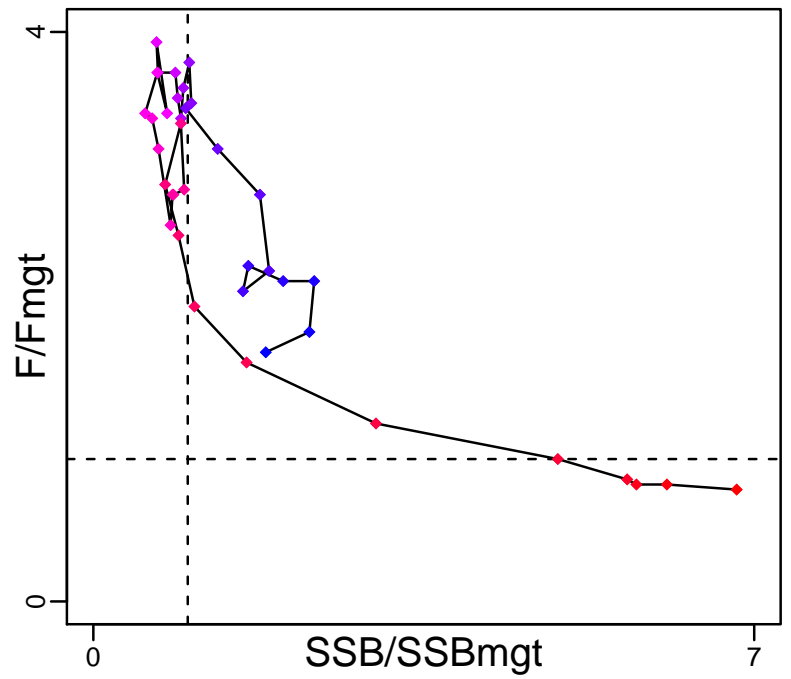
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	364,000	-	-
SSB	SSB-MT	2016	330,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	3.16×10^8	-	0
F	F-1/yr	2016	0	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	101,000		
TL	TL-MT	2016	93,700		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.16		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.79		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.72		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	7.33		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.79		
ER/ERmgt	-	-	-		

Hake Northeast Atlantic North [HAKENRTN]

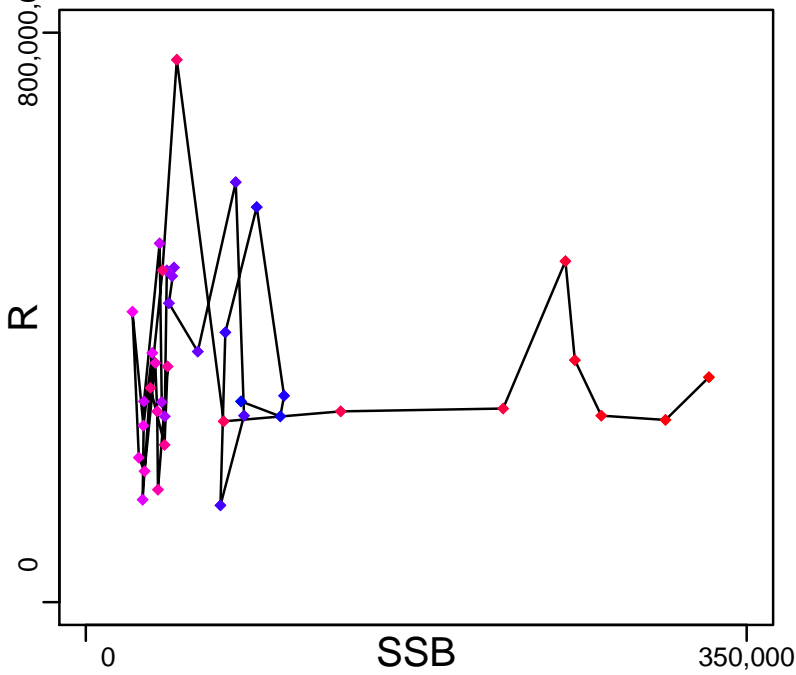
Kobe MSYpref (1978–2016–ICESIMP2016)



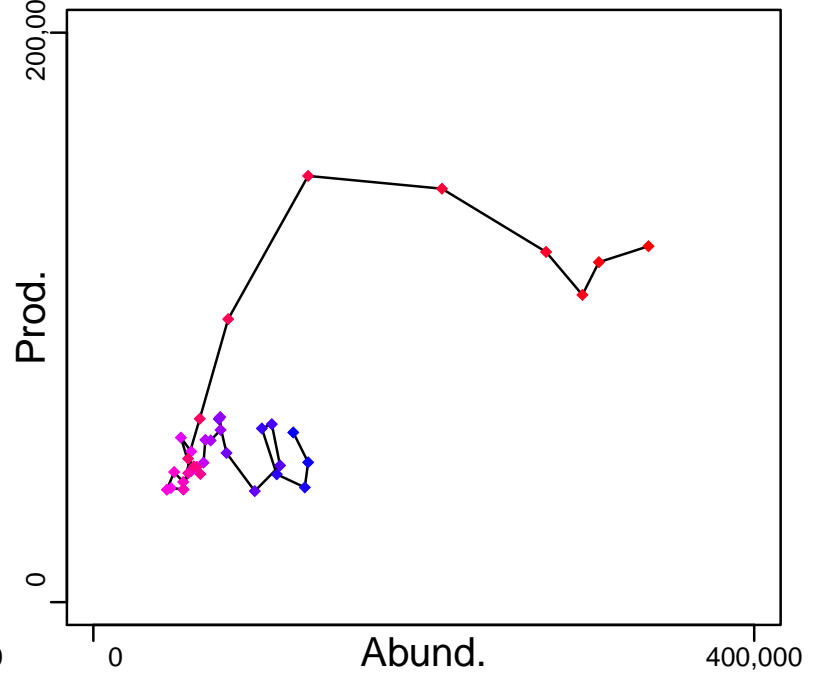
Kobe MGTpref (1978–2016–ICESIMP2016)



Spawner Recruit (1978–2016–ICESIMP2016)



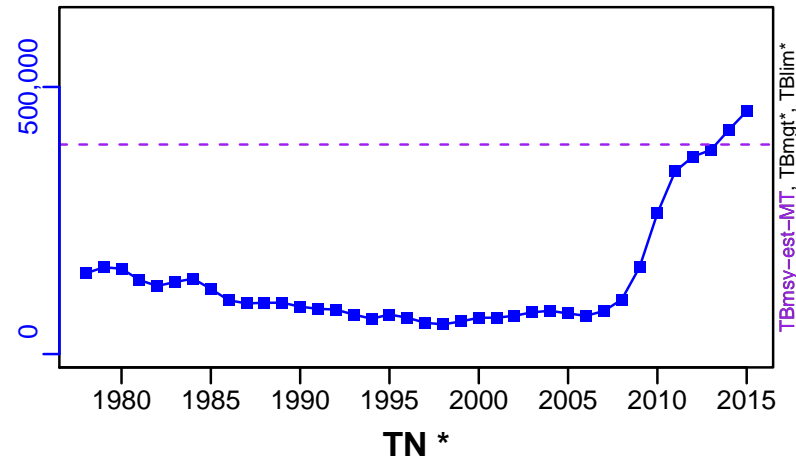
Production (1978–2016–ICESIMP2016)



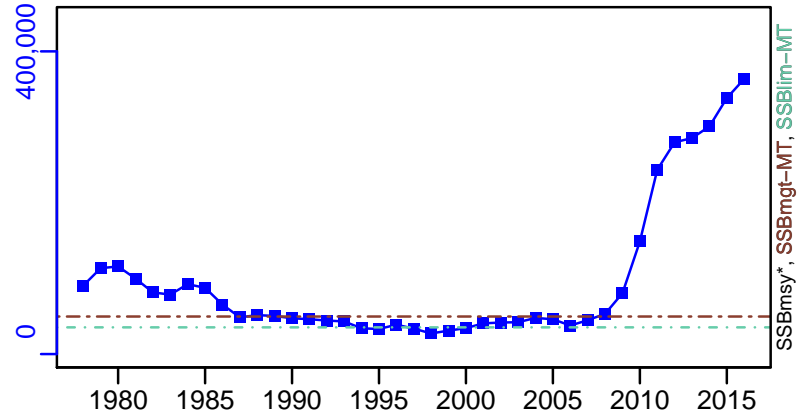
◆ Start Year ◆ End Year * No Data

Hake Northeast Atlantic North [HAKENRTN]

TB-MT (1978–2016–ICESIMP2016)



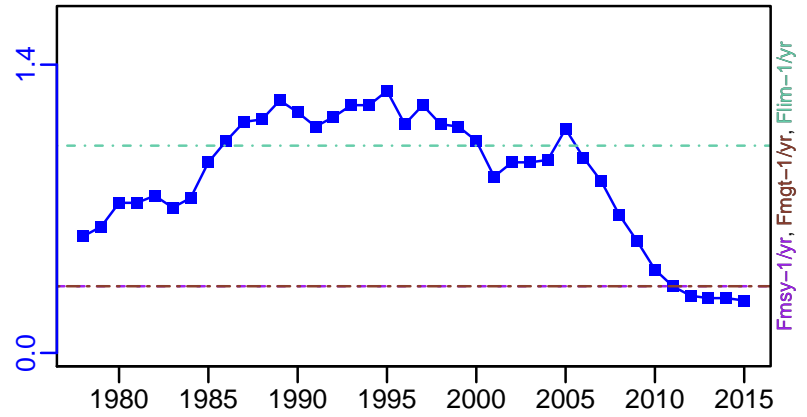
SSB-MT (1978–2016–ICESIMP2016)



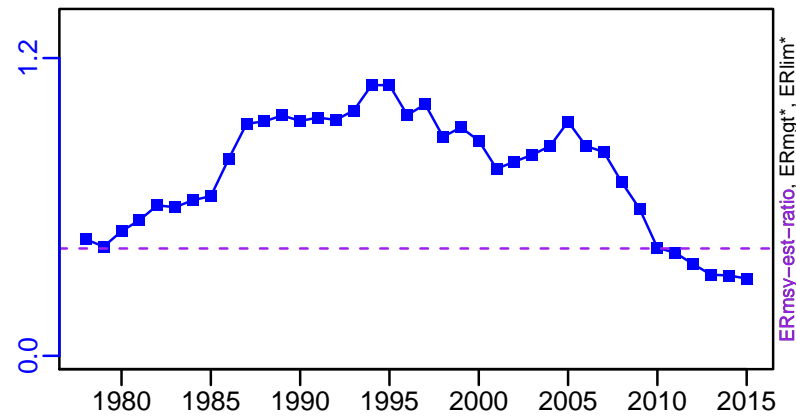
TN *



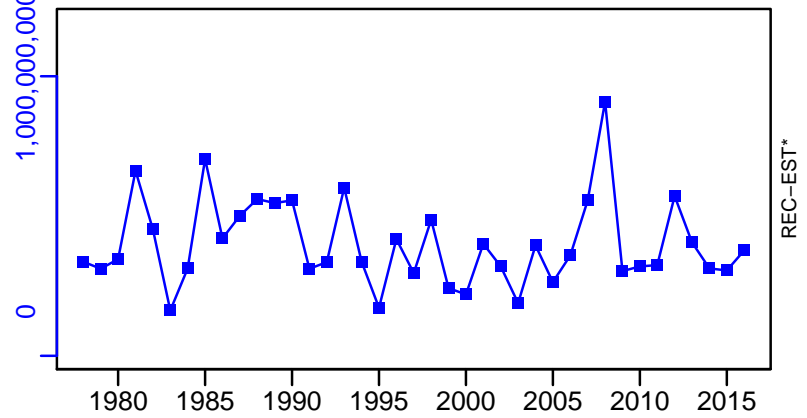
F-1/yr (1978–2016–ICESIMP2016)



ER-calc-ratio (1978–2016–ICESIMP2016)

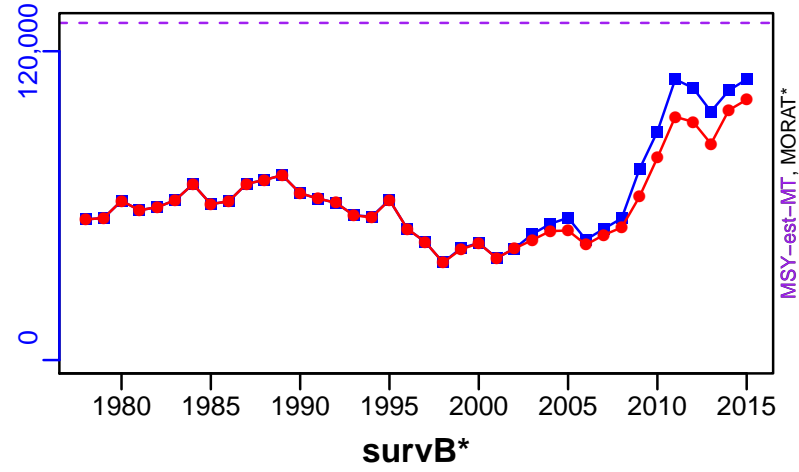


R-E00 (1978–2016–ICESIMP2016)



Hake Northeast Atlantic North [HAKENRTN]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Hake Northeast Atlantic South [HAKESOTH]

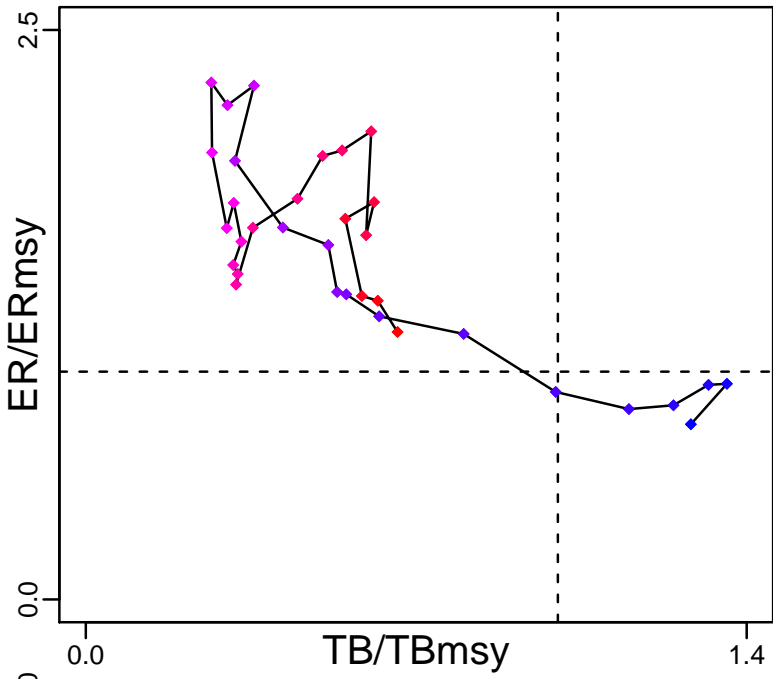
Metadata	
Scientific Name	Merluccius merluccius
Current Assess ID	WGBIE-HAKESOTH-1982-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	40,309
SSBmsy	SSBmsy-est-MT	2014	42,707
Fmsy	Fmsy-1/yr	2016	0.25
ERmsy	ERmsy-est-ratio	2016	0.44
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	11,100
Fmgt	Fmgt-1/yr	2016	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	17,849
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	8000
Flim	Flim-1/yr	2016	1.05
ERlim	-	-	-

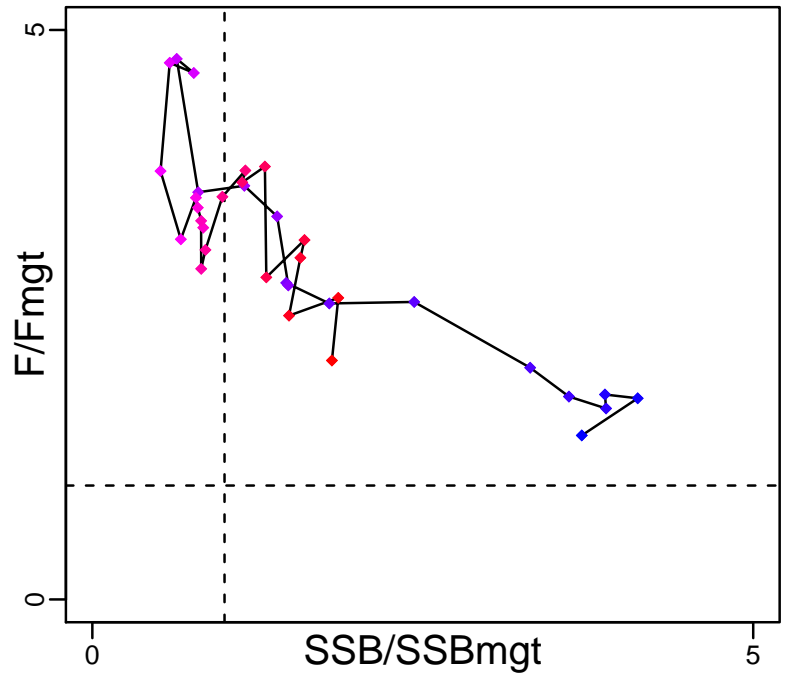
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	26,600	-	-
SSB	SSB-MT	2016	23,100	-	-
TN	-	-	-	-	-
R	R-E00	2016	79,300,000	-	0
F	F-1/yr	2016	1	-	1 to 3
ER	ER-calc-ratio	2016	1	-	-
TC	TC-MT	2016	13,800		
TL	TL-MT	2016	11,500		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.66		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2014	0.58		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	2.1		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.17		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	2.08		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	2.1		
ER/ERmgt	-	-	-		

Hake Northeast Atlantic South [HAKESOTH]

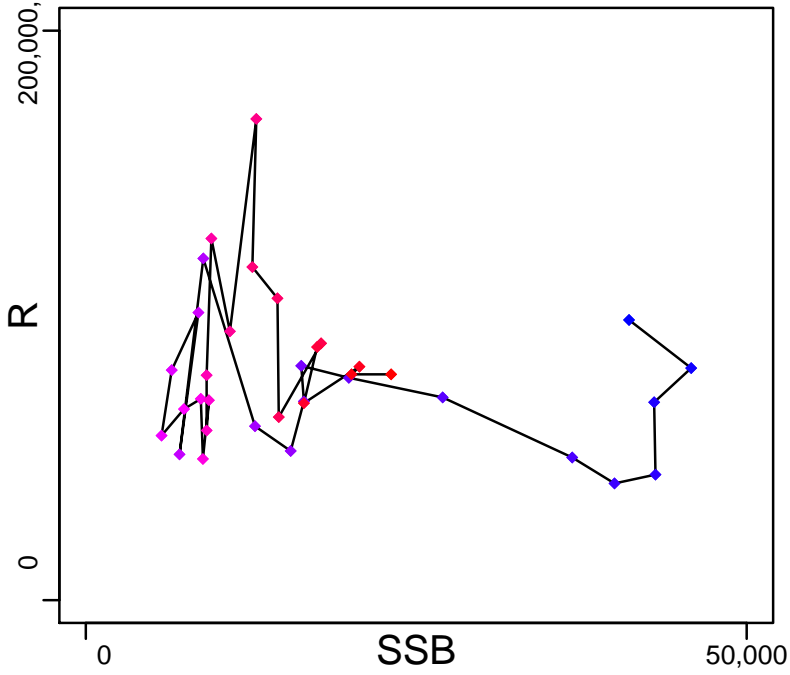
Kobe MSYpref (1982–2016–ICESIMP2016)



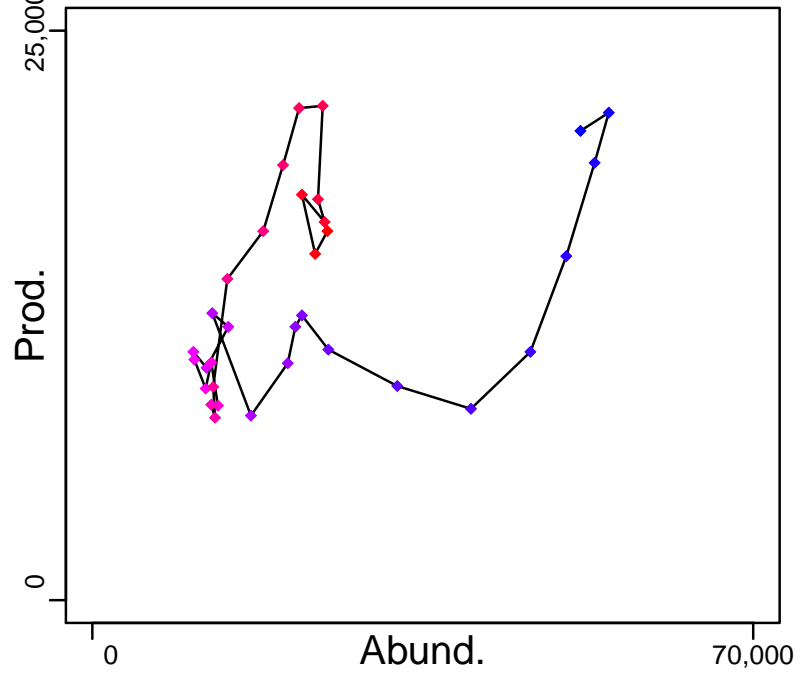
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



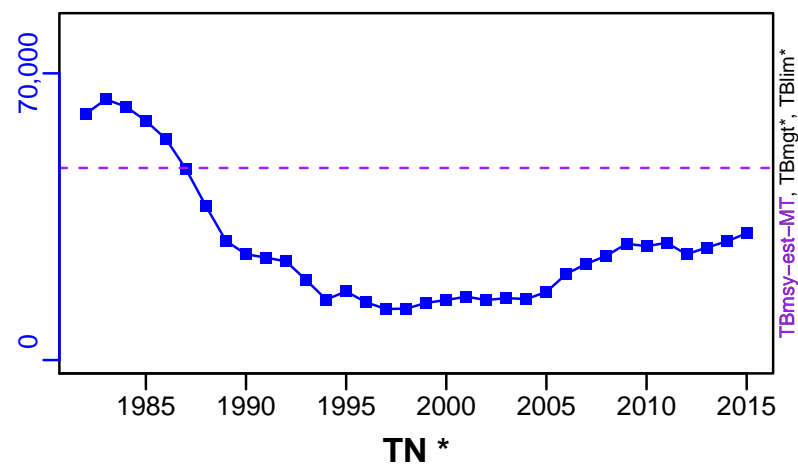
Production (1982–2016–ICESIMP2016)



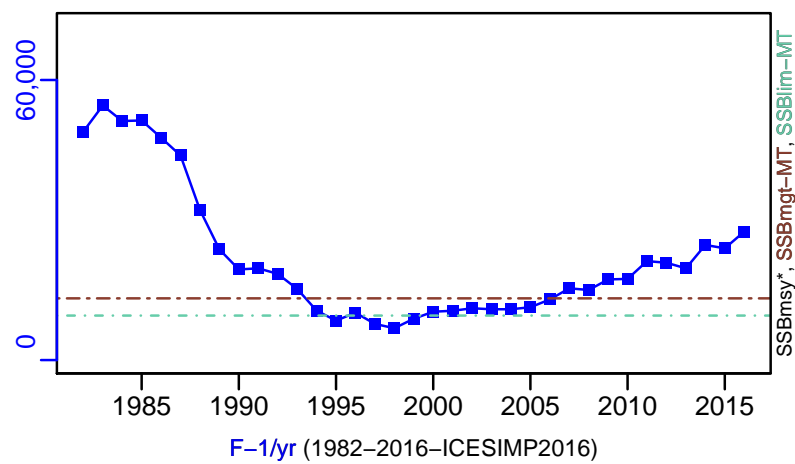
◆ Start Year ◆ End Year * No Data

Hake Northeast Atlantic South [HAKESOTH]

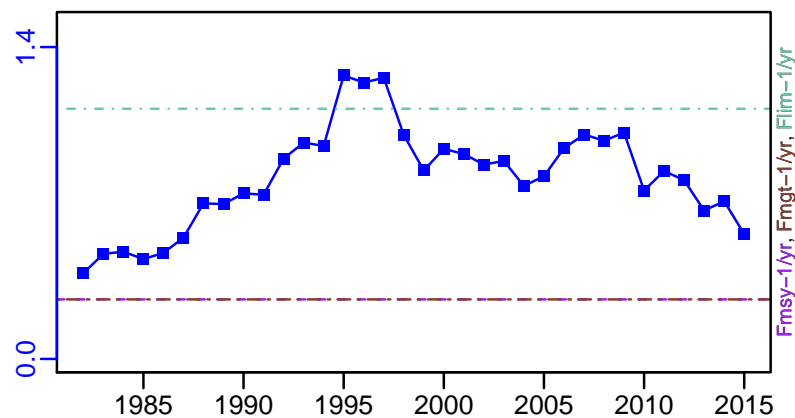
TB-MT (1982-2016-ICESIMP2016)



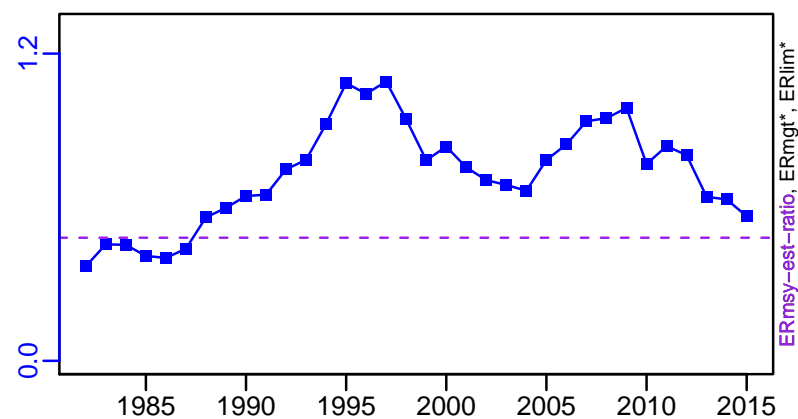
SSB-MT (1982-2016-ICESIMP2016)



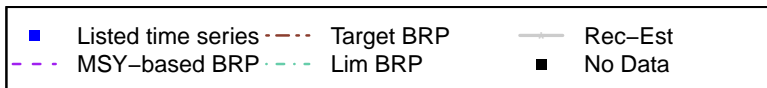
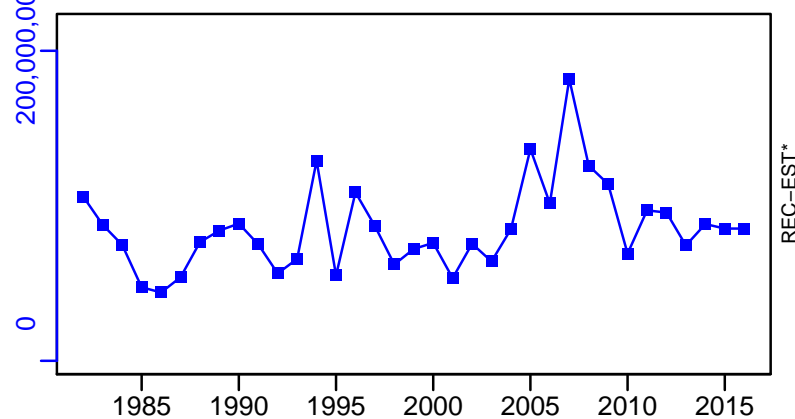
F-1/yr (1982-2016-ICESIMP2016)



ER-calc-ratio (1982-2016-ICESIMP2016)

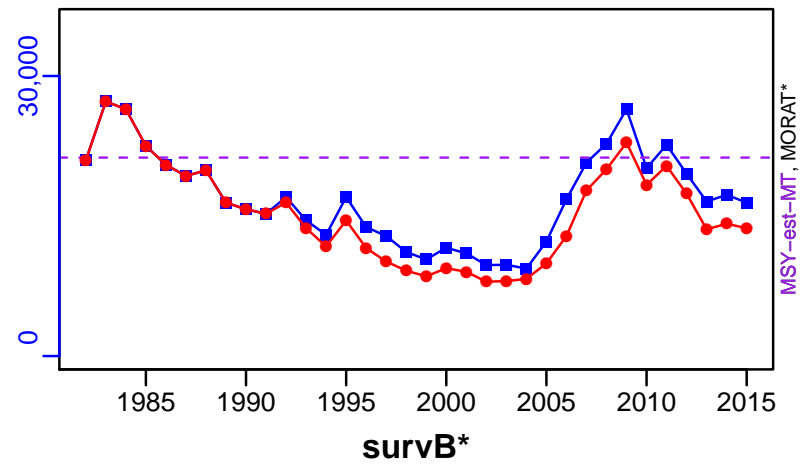


R-E00 (1982-2016-ICESIMP2016)

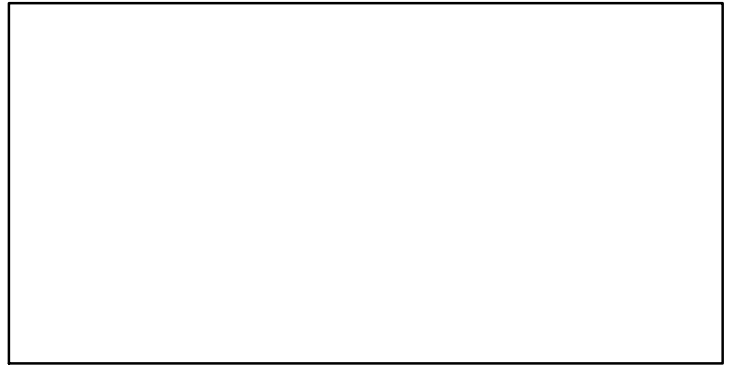


Hake Northeast Atlantic South [HAKESOTH]

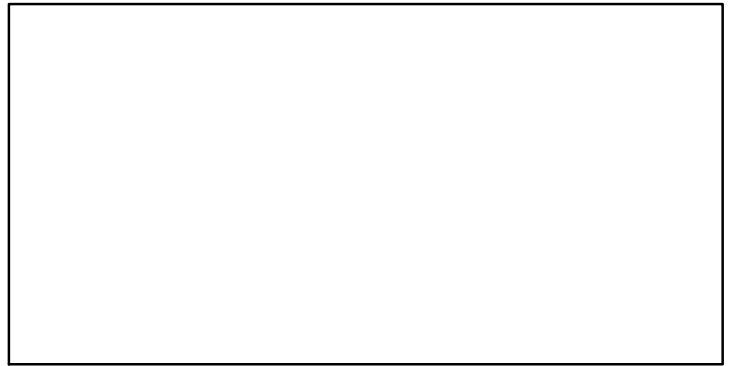
TC-MT, TL-MT, RecC* (1982–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Herring ICES 22-24-IIIa [HERR2224IIIa]

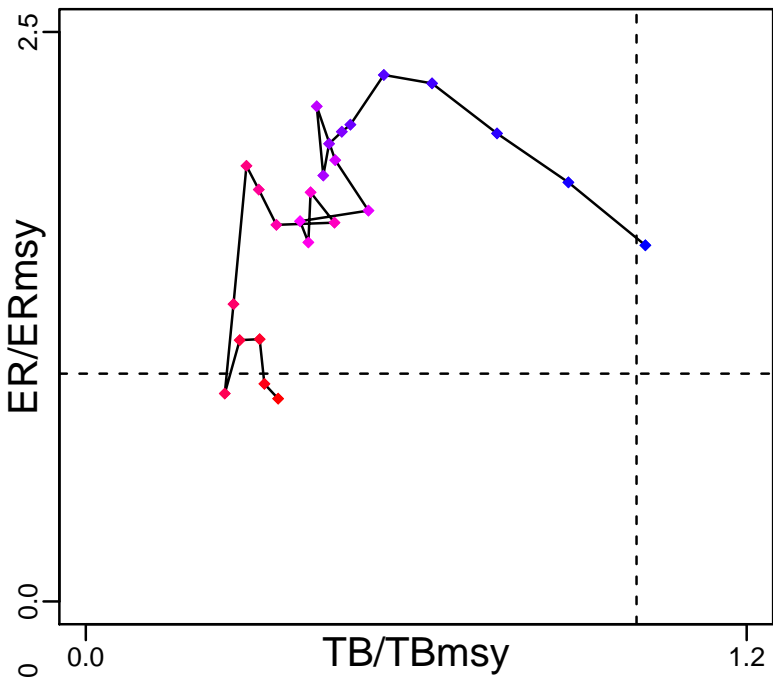
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERR2224IIIa-1991-2016-ICESIMP2016
Area	22-24-IIIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	110,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.32
ERmsy	ERmsy-est-ratio	2016	0.21
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	110,000
Fmgt	Fmgt-1/yr	2016	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	120,598
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	90,000
Flim	Flim-1/yr	2016	0.52
ERlim	-	-	-

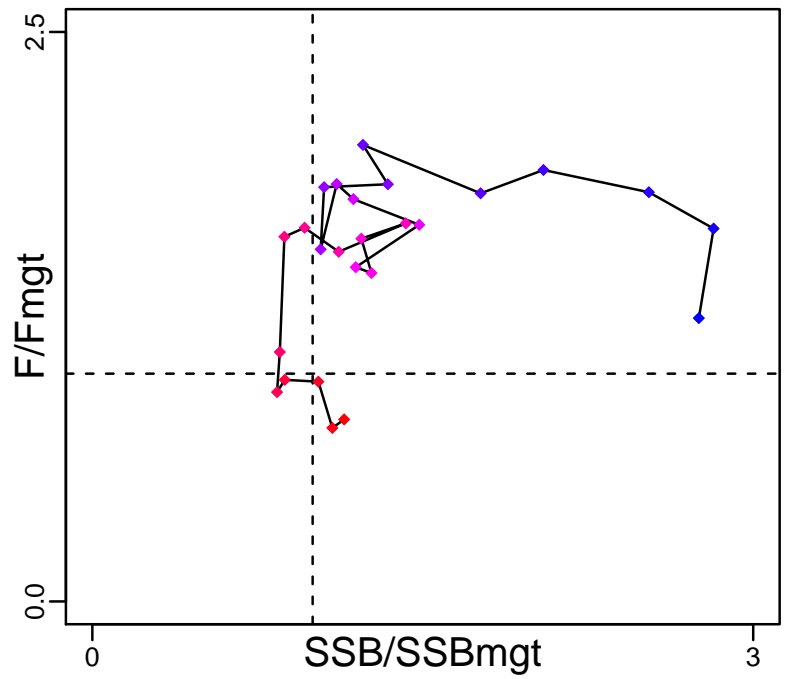
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	205,000	-	-
SSB	SSB-MT	2016	143,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	1.86×10^9	-	0
F	F-1/yr	2016	0	-	3 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	37,500		
TL	TL-MT	2016	37,500		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.49		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.8		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.89		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.3		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.8		
ER/ERmgt	-	-	-		

Herring ICES 22-24-IIIa [HERR2224IIIa]

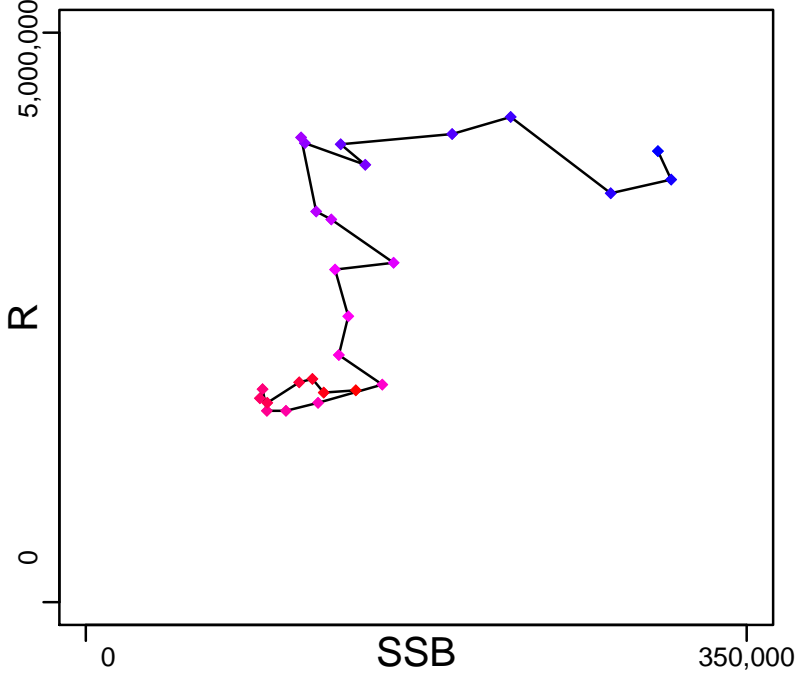
Kobe MSYpref (1991-2016-ICESIMP2016)



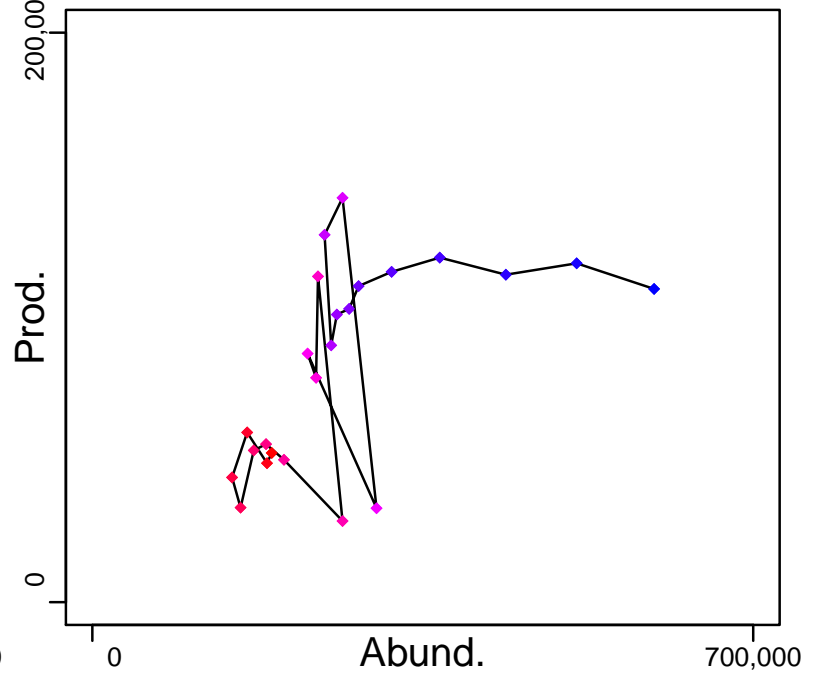
Kobe MGTpref (1991-2016-ICESIMP2016)



Spawner Recruit (1991-2016-ICESIMP2016)



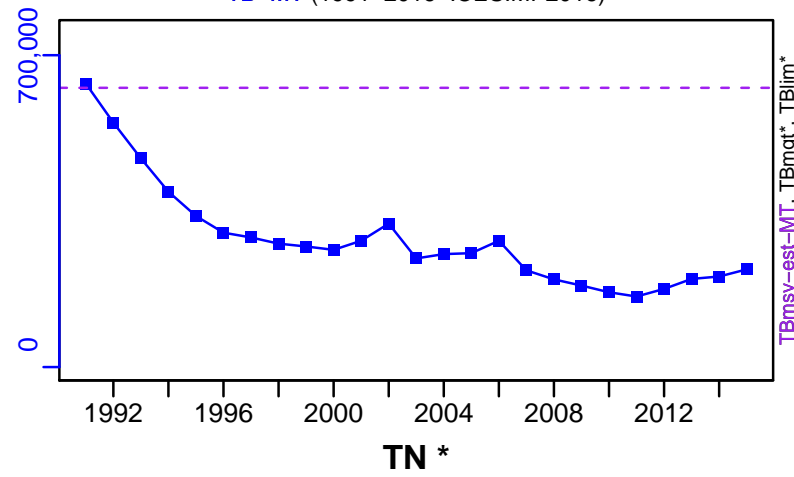
Production (1991-2016-ICESIMP2016)



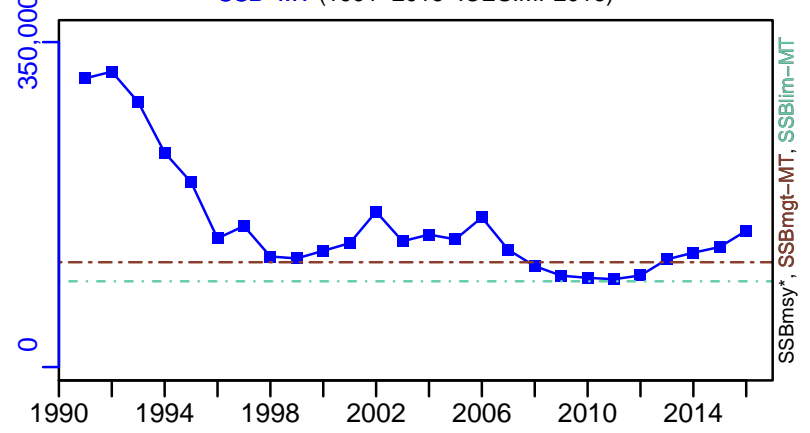
◆ Start Year ◆ End Year * No Data

Herring ICES 22-24-IIIa [HERR2224IIIa]

TB-MT (1991-2016-ICESIMP2016)



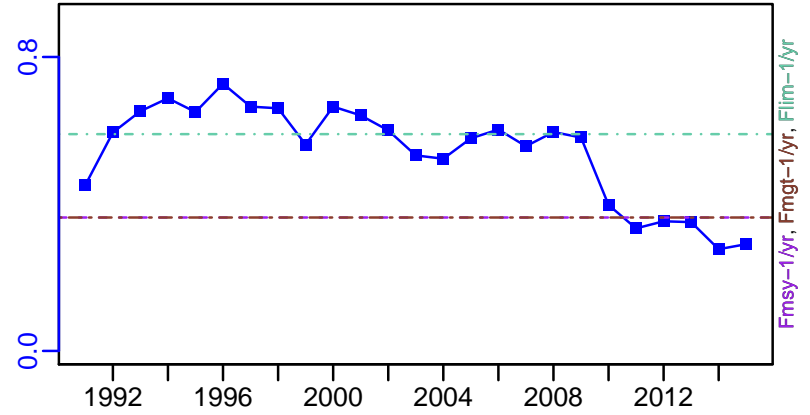
SSB-MT (1991-2016-ICESIMP2016)



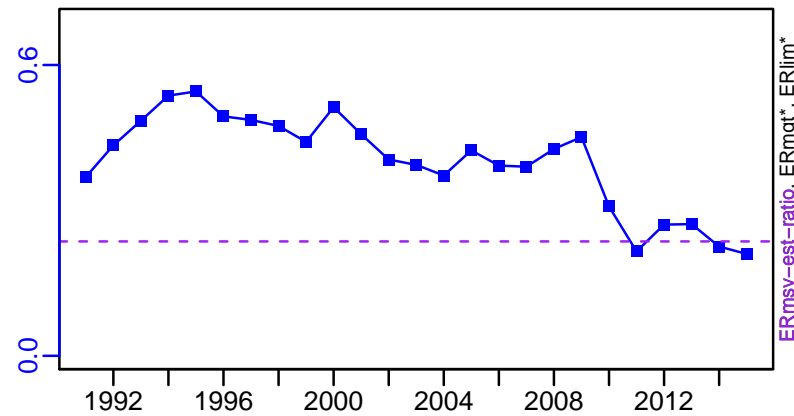
TN *



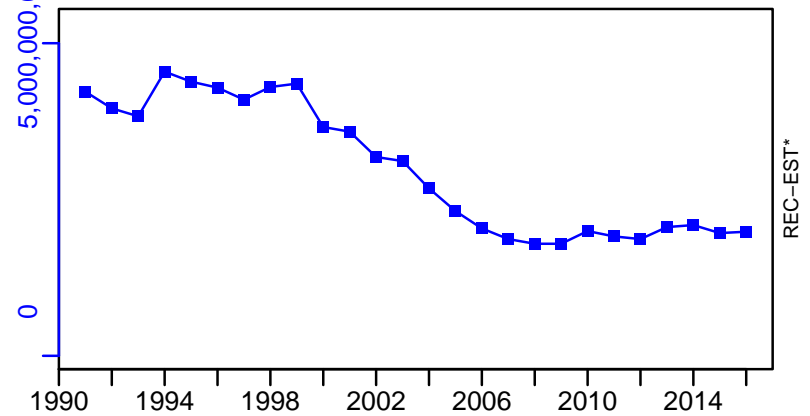
F-1/yr (1991-2016-ICESIMP2016)



ER-calc-ratio (1991-2016-ICESIMP2016)



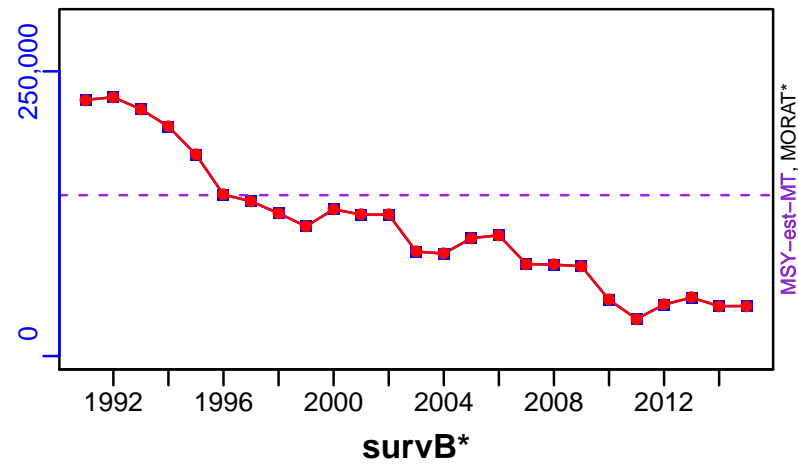
R-E00 (1991-2016-ICESIMP2016)



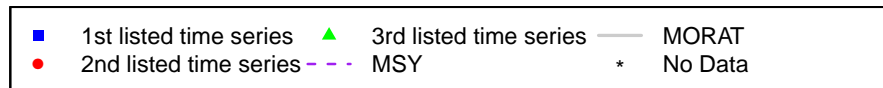
Herring ICES 22-24-IIIa [HERR2224IIIa]

TC-MT, TL-MT, RecC* (1991-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

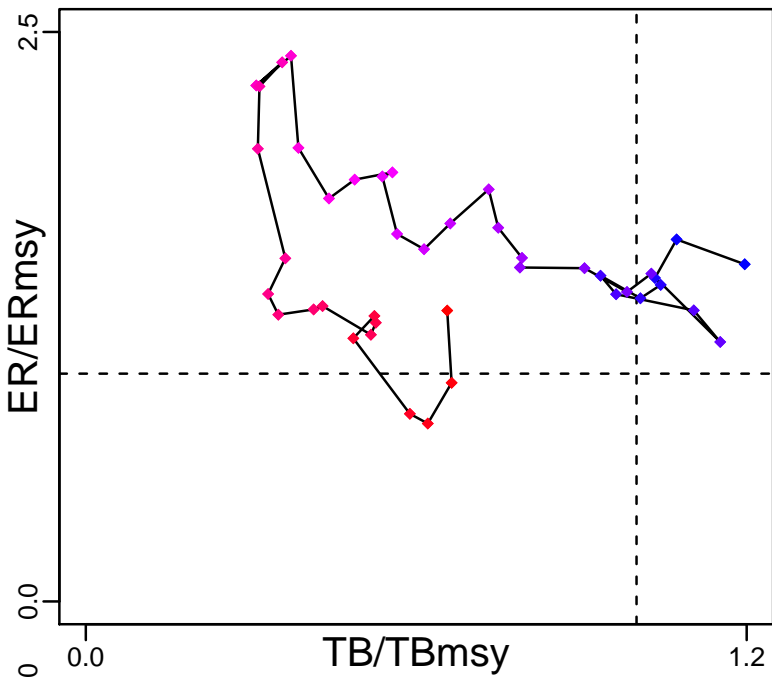
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR2529-32-1973-2016-ICESIMP2016
Area	Subdivisions 25-29 and 32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	2,222,725
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.22
ERmsy	ERmsy-est-ratio	2016	0.09
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	6×10^5
Fmgt	Fmgt-1/yr	2016	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	208,157
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	430,000
Flim	Flim-1/yr	2016	0.52
ERlim	-	-	-

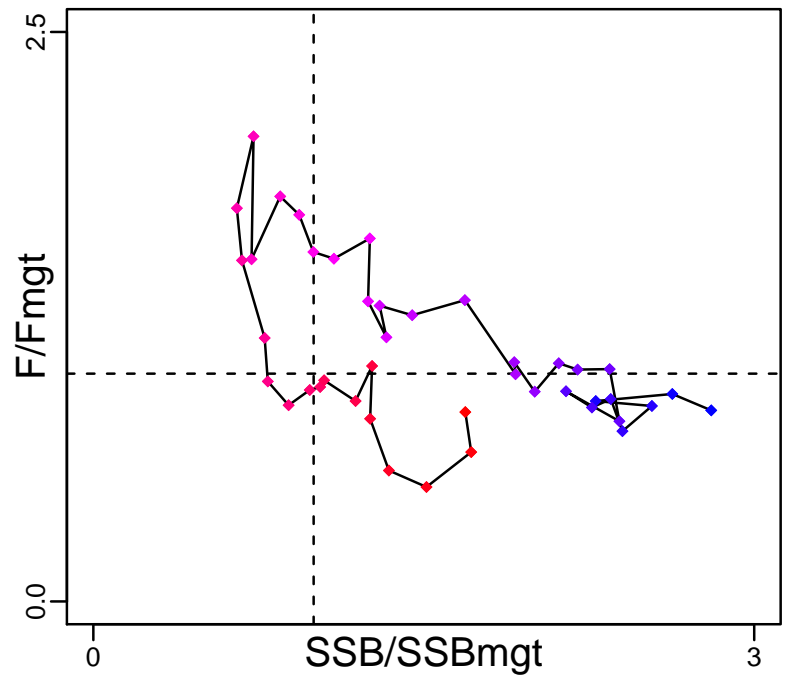
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.66		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.28		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

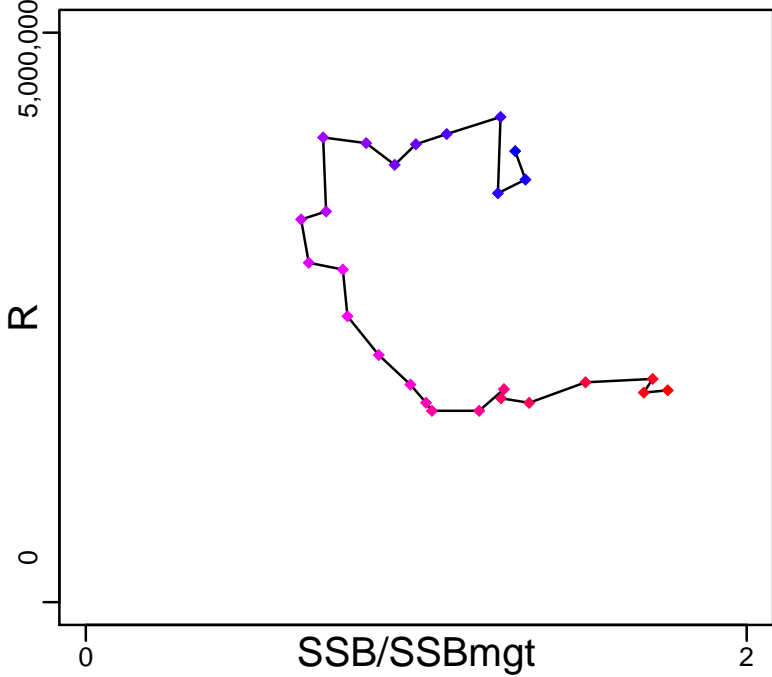
Kobe MSY_{pref} (1973–2016–ICESIMP2016)



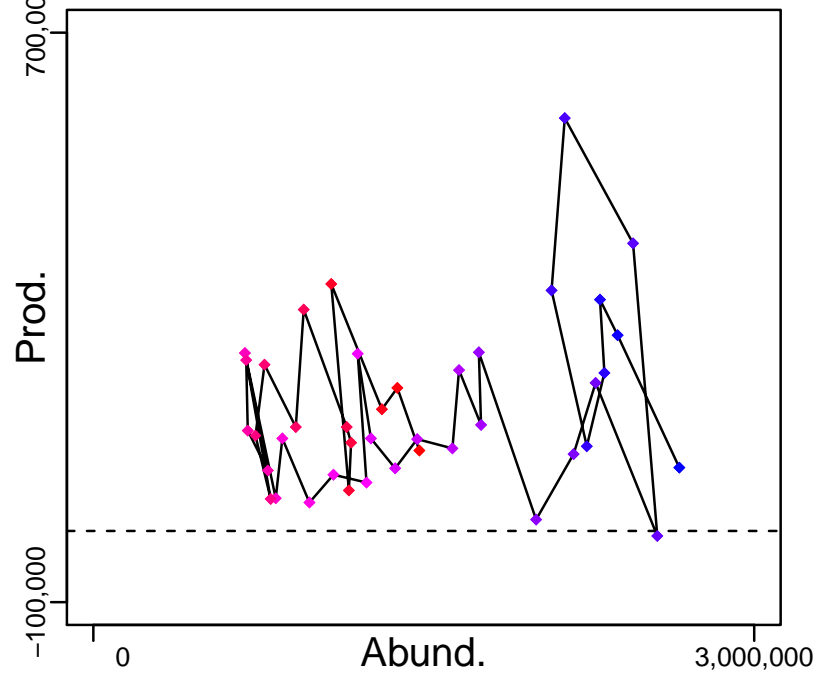
Kobe MGT_{pref} (1973–2016–ICESIMP2016)



Spawner Recruit (1973–2016–ICESIMP2016)

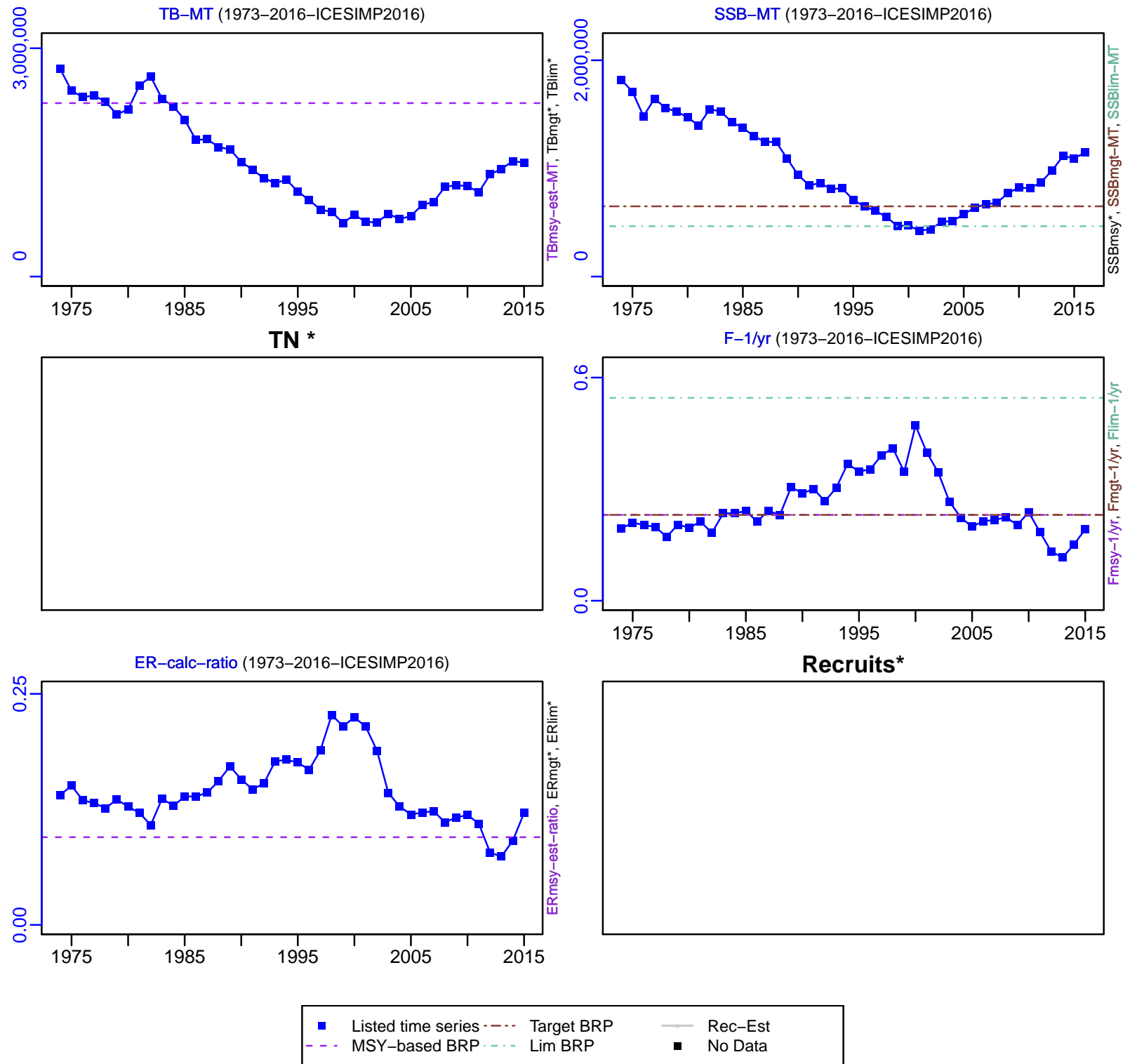


Production (1973–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

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



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Herring ICES 25-32 [HERR2532]

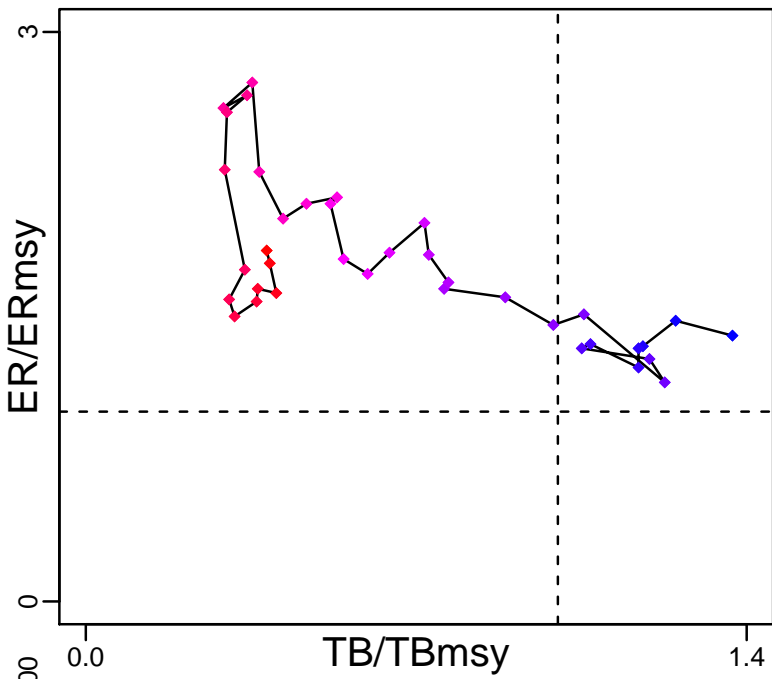
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR2532-1973-2011-NEUBAUER
Area	Eastern Baltic
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2011	2,160,728
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2011	0.16
ERmsy	ERmsy-est-ratio	2011	0.09
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2011	192,864
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

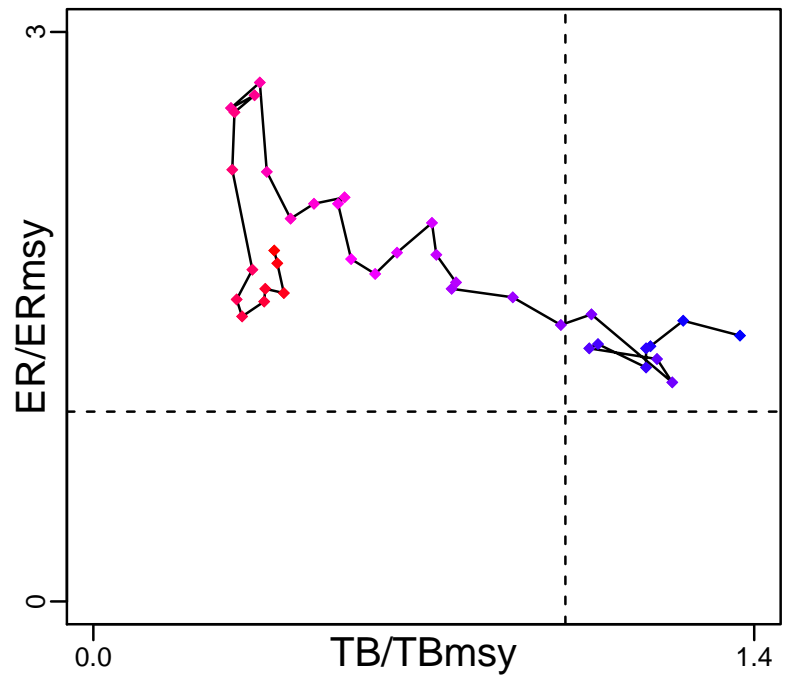
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	828,000	-	1+
SSB	SSB-MT	2011	526,000	-	-
TN	-	-	-	-	-
R	R-E00	2011	9.96×10^9	-	1
F	F-1/yr	2011	0	-	3 to 6
ER	ER-ratio	2011	0	-	-
TC	-	-	-		
TL	TL-MT	2011	137,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.38		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	1.98		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2011	1.85		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Herring ICES 25–32 [HERR2532]

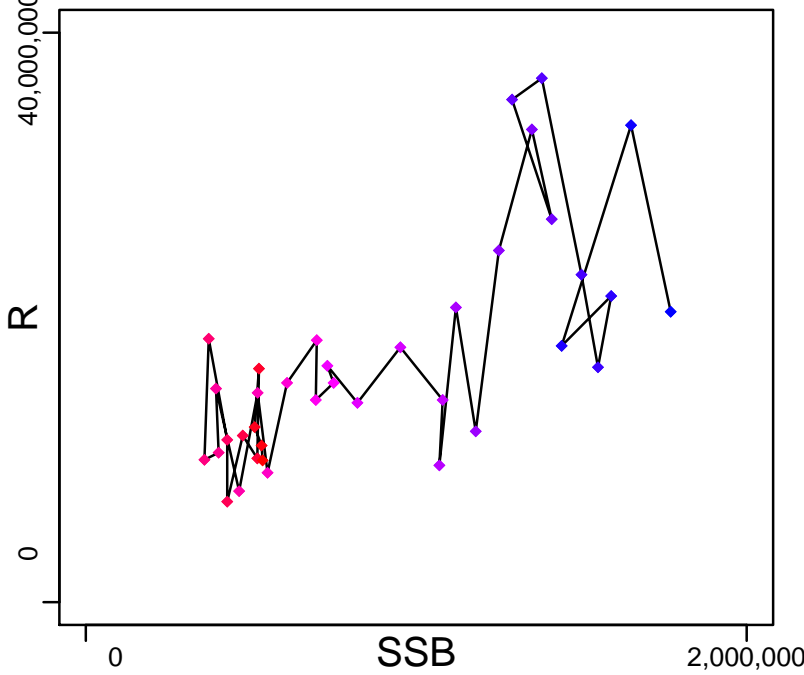
Kobe MSYpref (1973–2011–NEUBAUER)



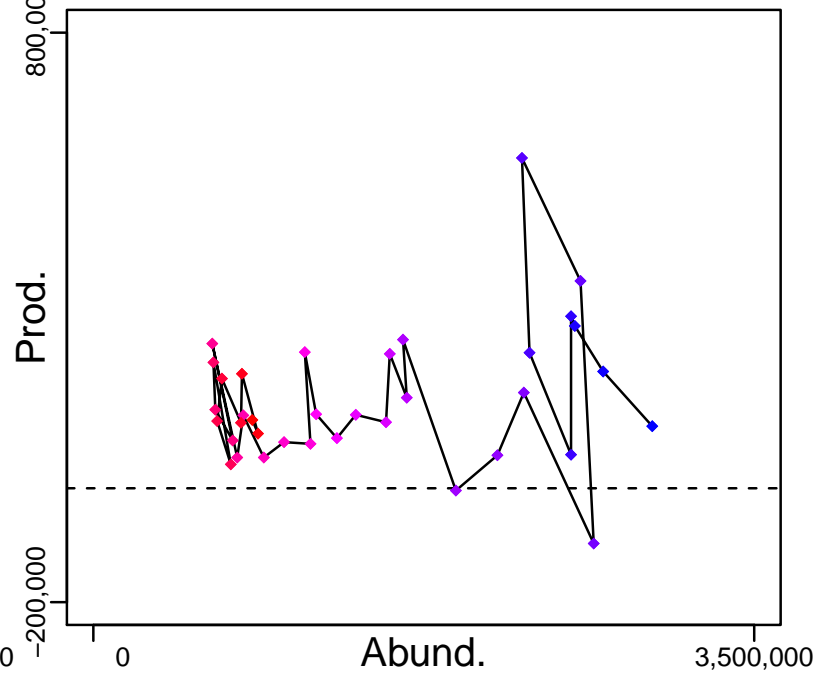
Kobe MGTpref (1973–2011–NEUBAUER)



Spawner Recruit (1973–2011–NEUBAUER)

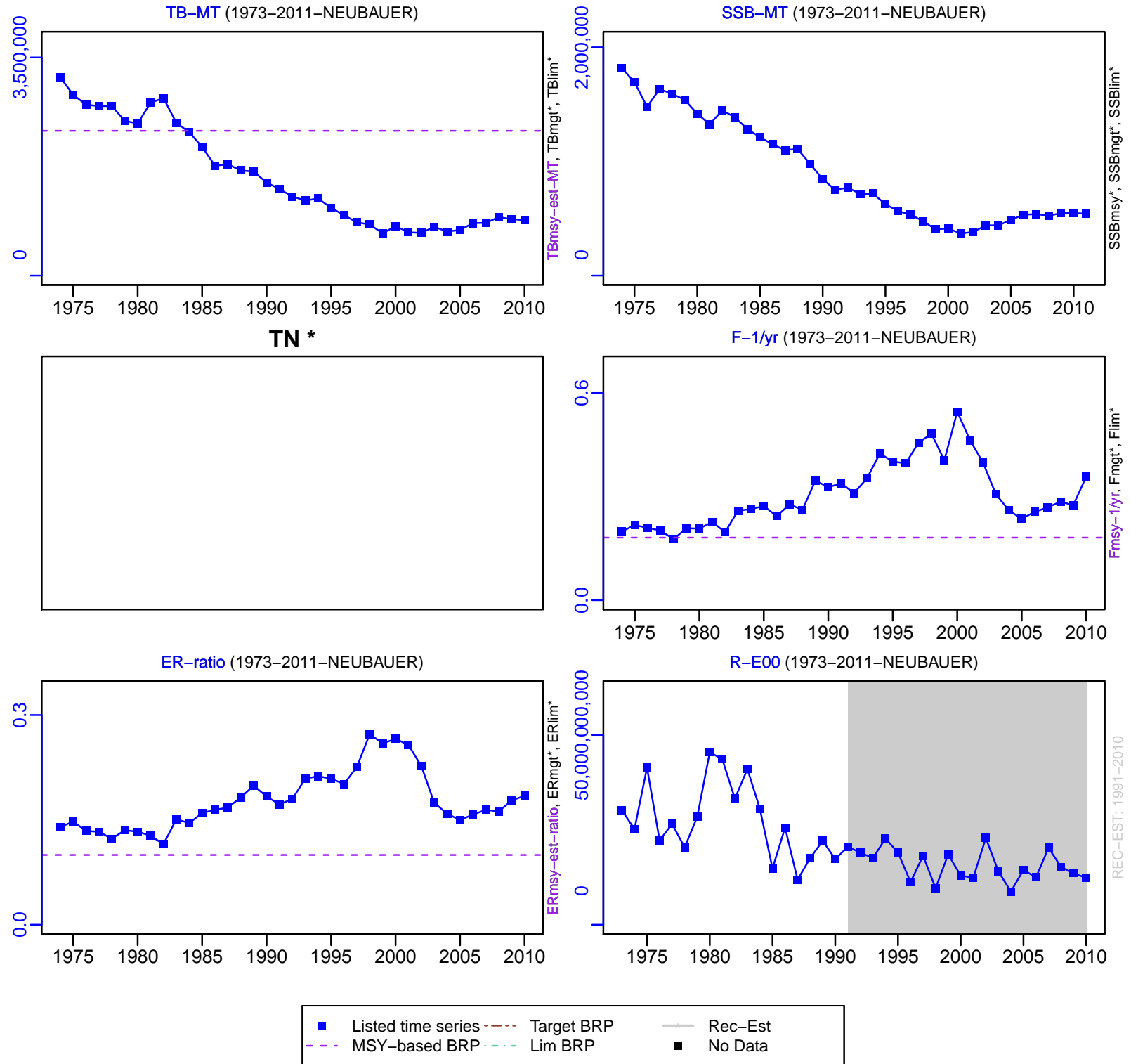


Production (1973–2011–NEUBAUER)



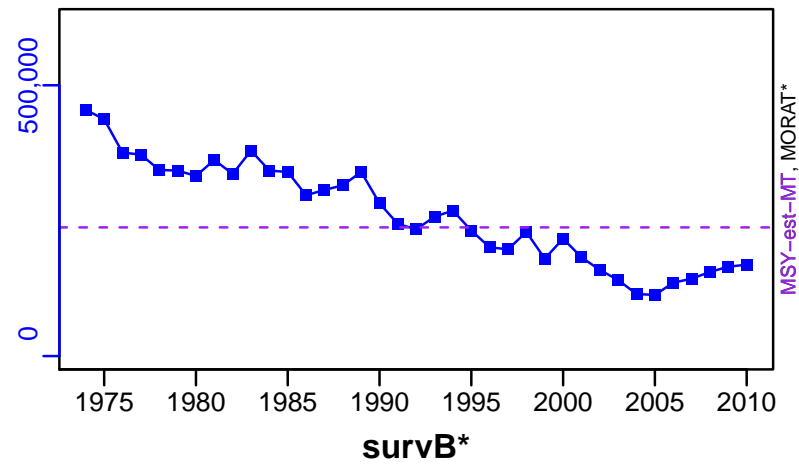
◆ Start Year ◆ End Year * No Data

Herring ICES 25–32 [HERR2532]

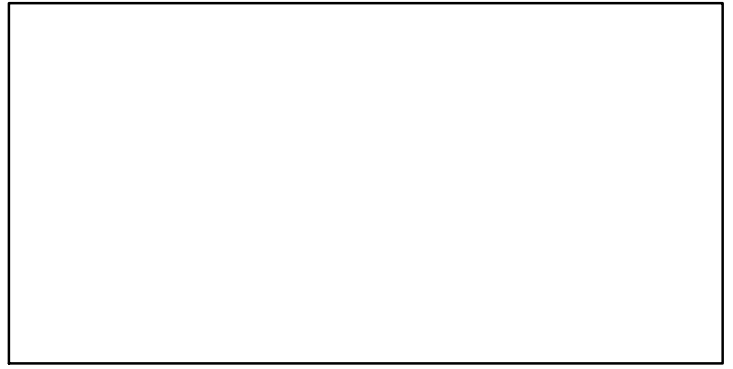


Herring ICES 25–32 [HERR2532]

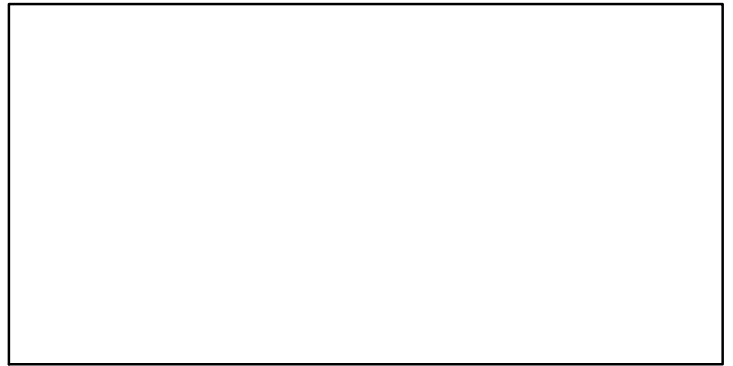
TL–MT, TC*, RecC* (1973–2011–NEUBAUER)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Herring ICES 30 [HERR30]

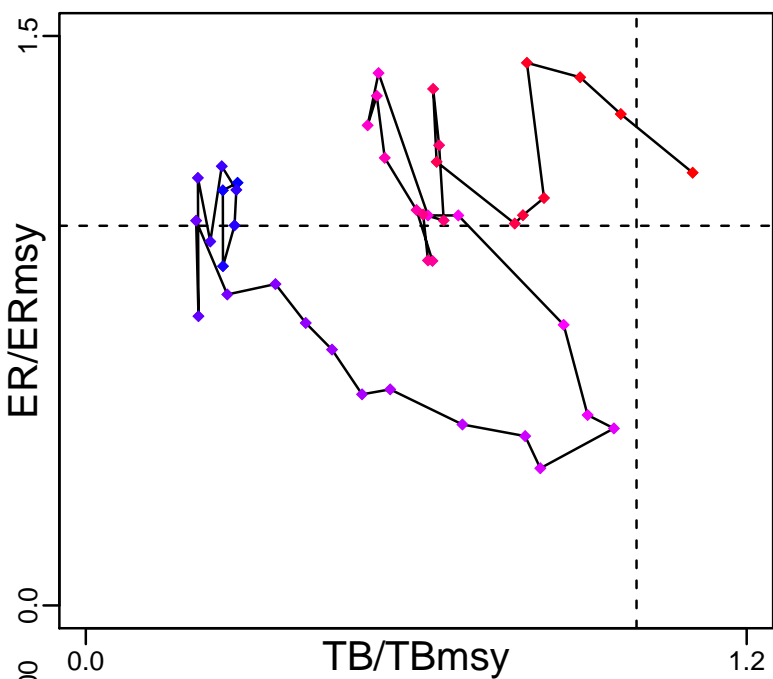
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR30-1972-2016-ICESIMP2016
Area	Bothnian Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	2×10^5
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.15
ERmsy	ERmsy-est-ratio	2016	0.09
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	316,000
Fmgt	Fmgt-1/yr	2016	0.15
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	87,916
M	M-1/yr	2011	0.2
TBlim	TBlim-MT	2011	290,000
SSBlim	-	-	-
Flim	Flim-1/yr	2011	0.3
ERlim	-	-	-

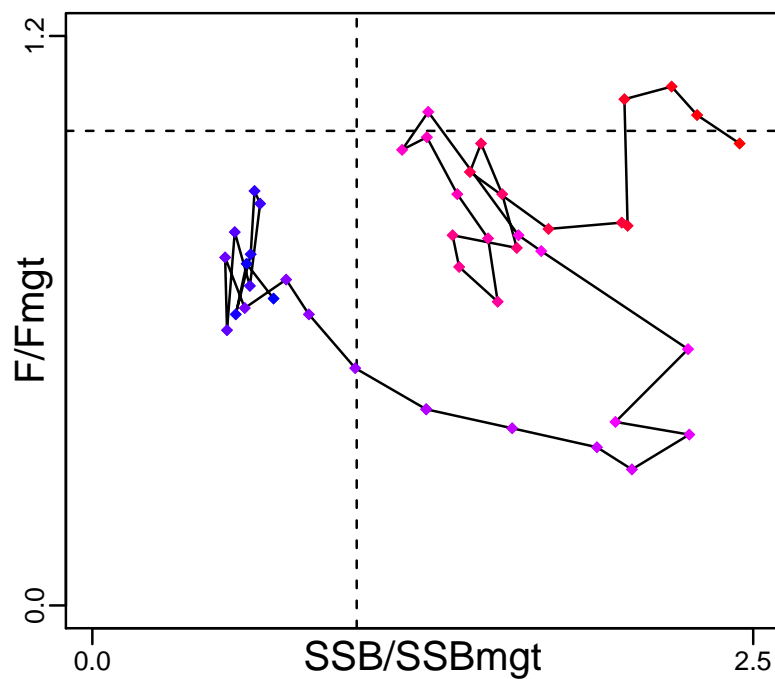
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	1,110,000	-	-
SSB	SSB-MT	2016	952,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	8.03×10^9	-	1
F	F-1/yr	2016	0	-	3 to 7
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2015	111,000		
TL	TL-MT	2016	110,000		
TB/TBmsy	TB-MT/TBmsy-MT	2011	3.78		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.97		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.14		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	3.01		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.97		
ER/ERmgt	-	-	-		

Herring ICES 30 [HERR30]

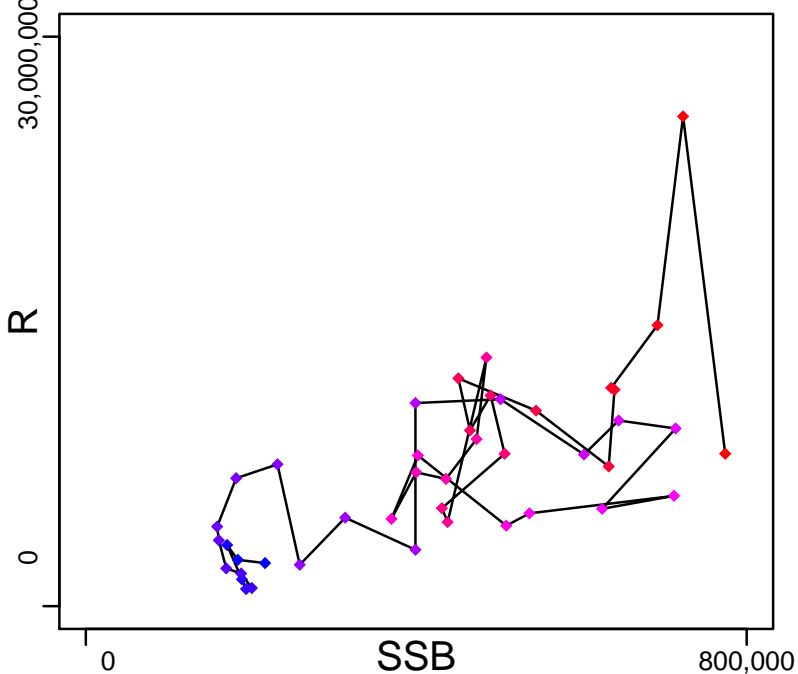
Kobe MSYpref (1972–2016–ICESIMP2016)



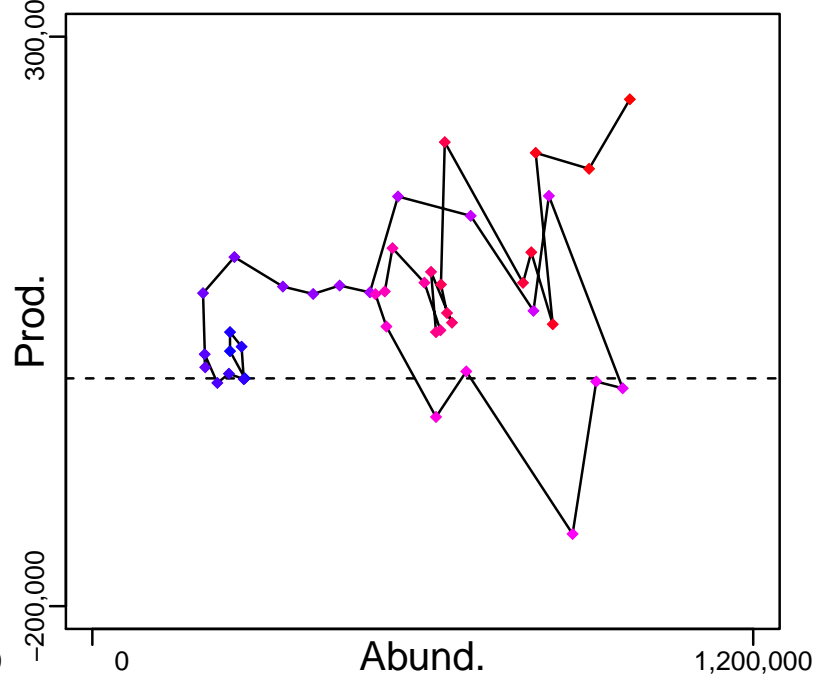
Kobe MGTpref (1972–2016–ICESIMP2016)



Spawner Recruit (1972–2016–ICESIMP2016)



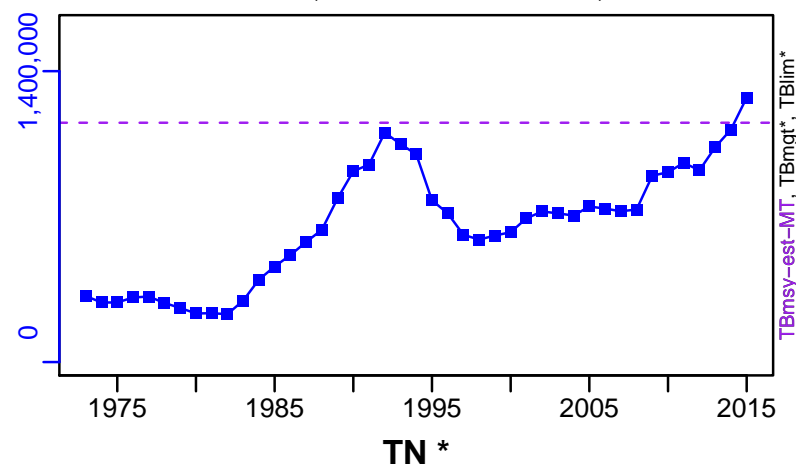
Production (1972–2016–ICESIMP2016)



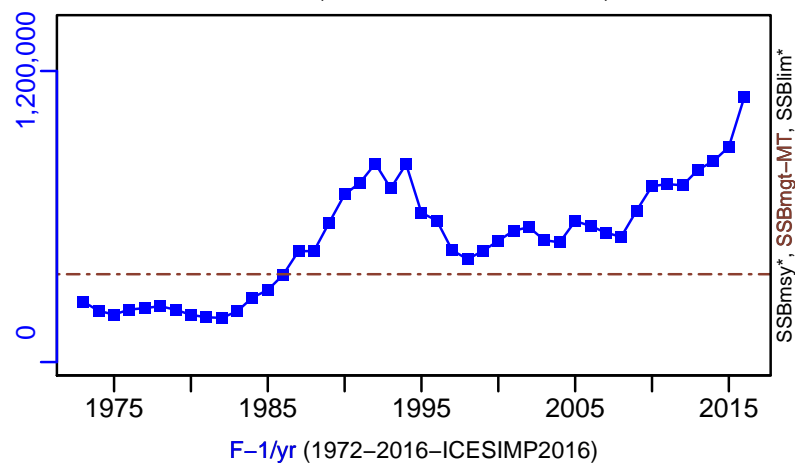
◆ Start Year ◆ End Year * No Data

Herring ICES 30 [HERR30]

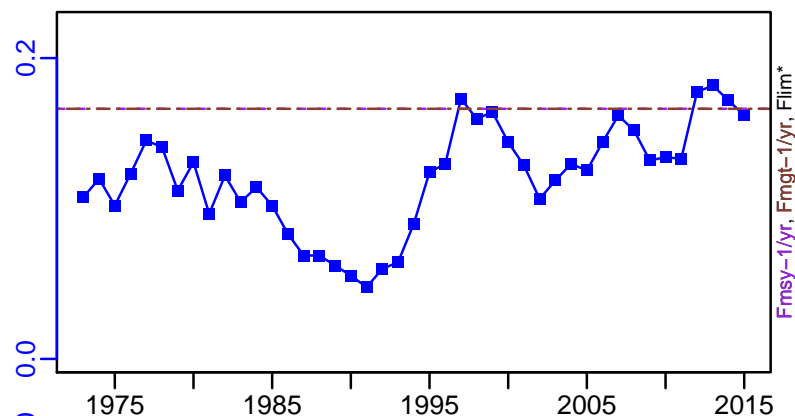
TB-MT (1972–2016–ICESIMP2016)



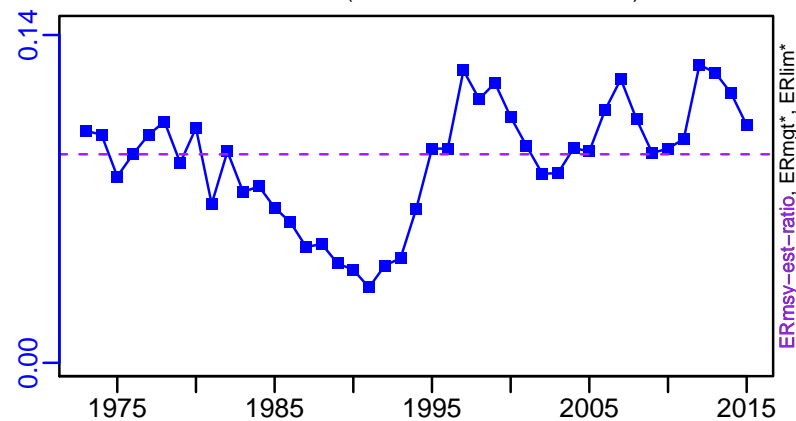
SSB-MT (1972–2016–ICESIMP2016)



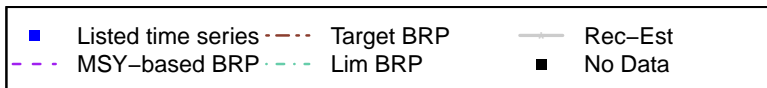
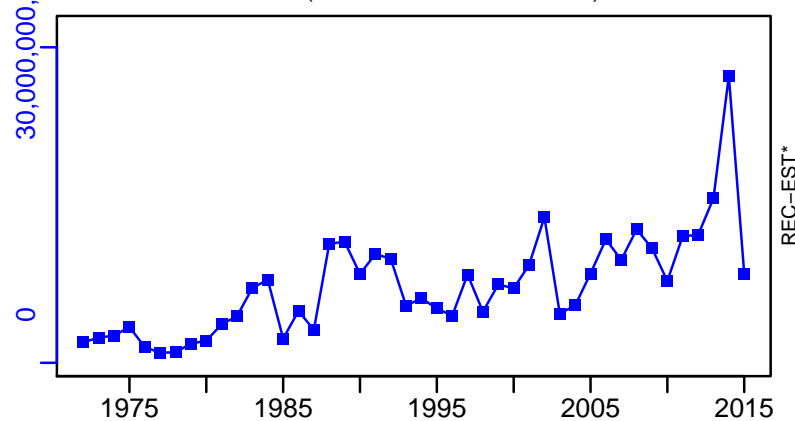
F-1/yr (1972–2016–ICESIMP2016)



ER-calc-ratio (1972–2016–ICESIMP2016)

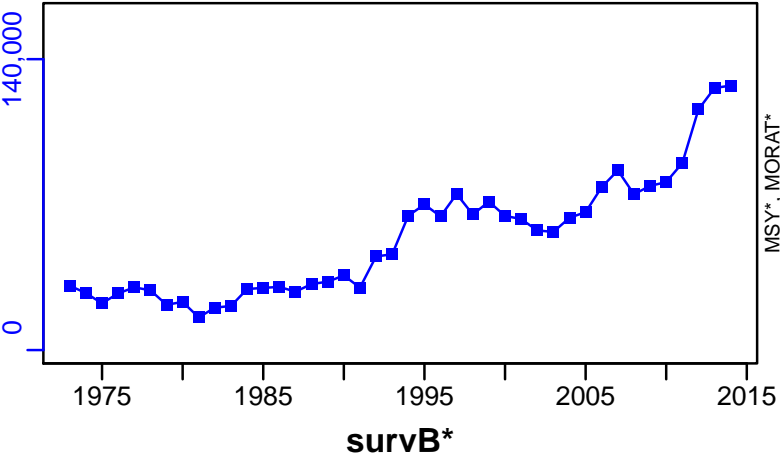


R-E00 (1972–2016–ICESIMP2016)

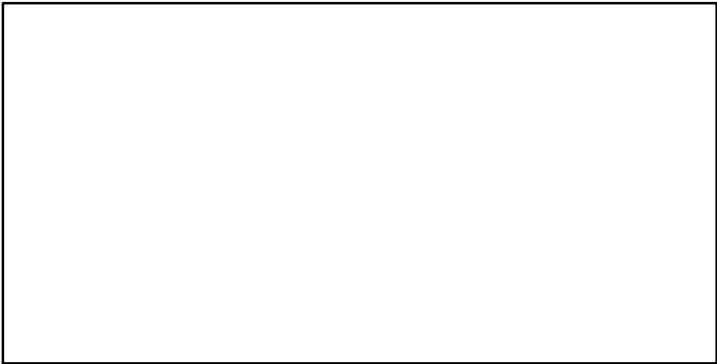


Herring ICES 30 [HERR30]

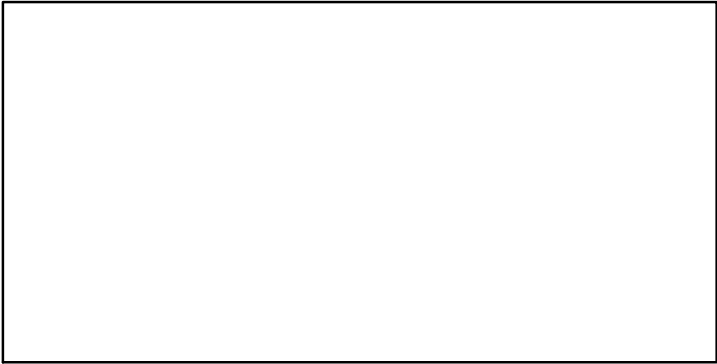
TC-MT, TL*, RecC* (1972-2015-ICESIMP2016)



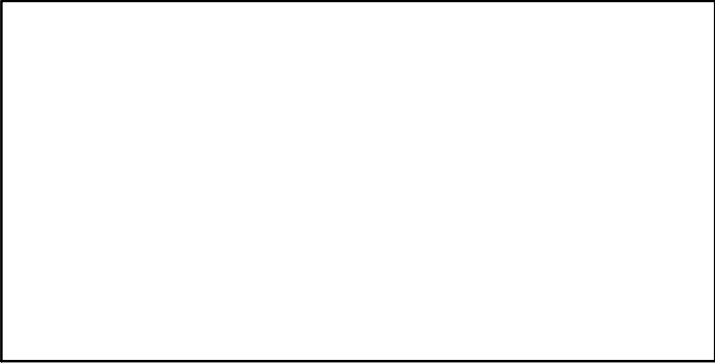
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Herring ICES 31 [HERR31]

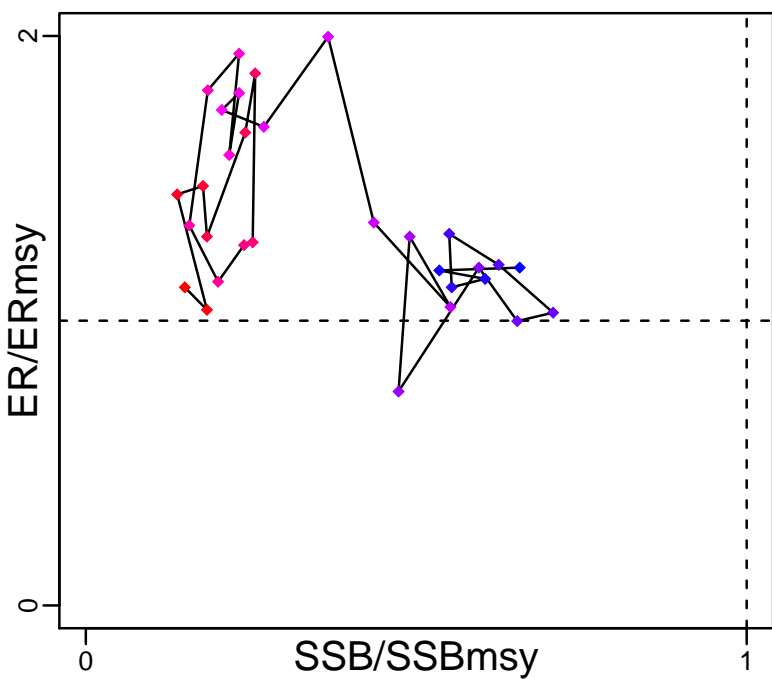
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERR31-1979-2016-ICESIMP2016
Area	Bothnian Bay
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2010, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	53,462
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2010	0.1
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	9847
M	M-1/yr	2010	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

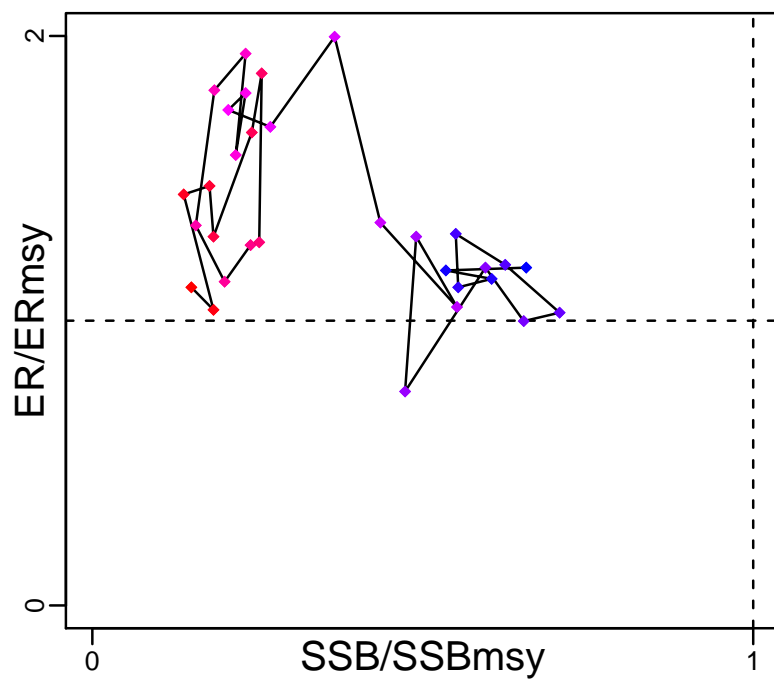
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	1	-	-
TN	-	-	-	-	-
R	R-relative	2016	1	-	1
F	F-relative	2016	1	-	3 to 7
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2016	4530		
TL	TL-MT	2016	4530		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.15		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	1.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Herring ICES 31 [HERR31]

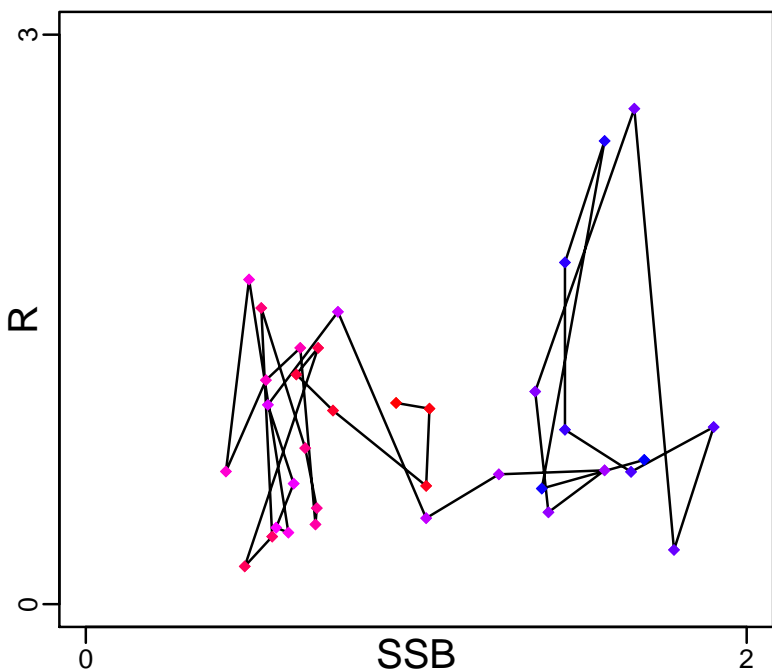
Kobe MSYpref (1979–2010–NEUBAUER)



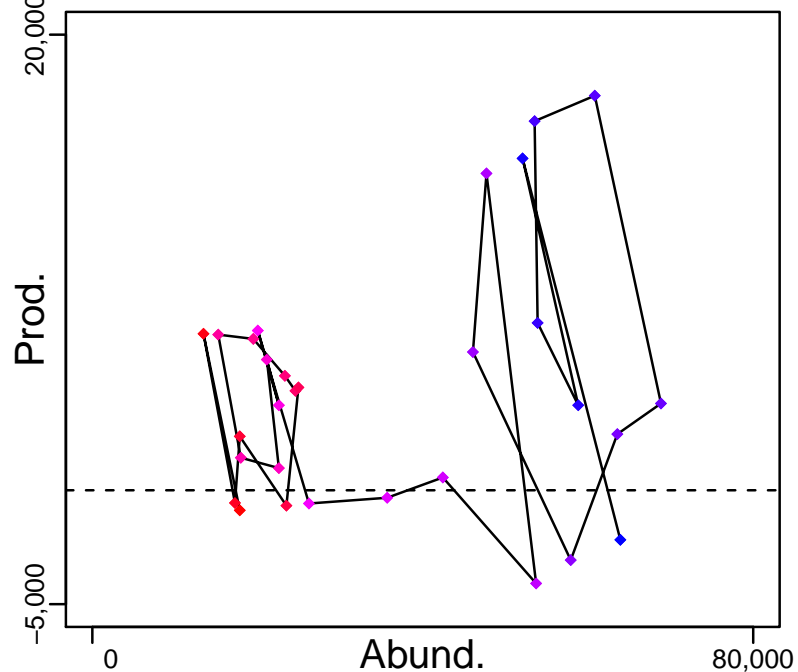
Kobe MGTpref (1979–2010–NEUBAUER)



Spawner Recruit (1979–2016–ICESIMP2016)



Production (1979–2010–NEUBAUER)



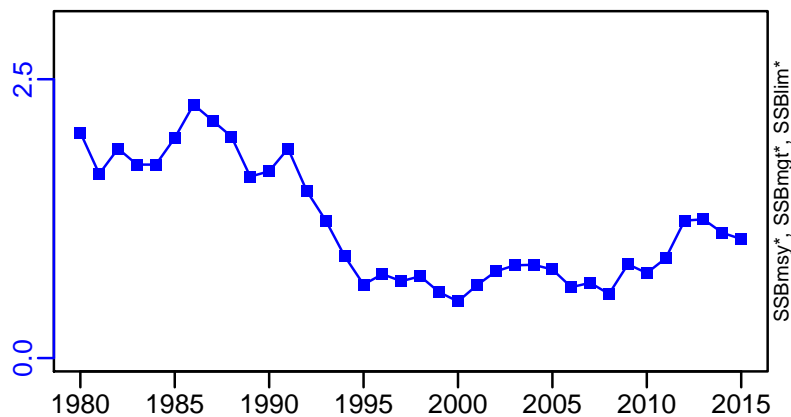
◆ Start Year ◆ End Year * No Data

Herring ICES 31 [HERR31]

TB*



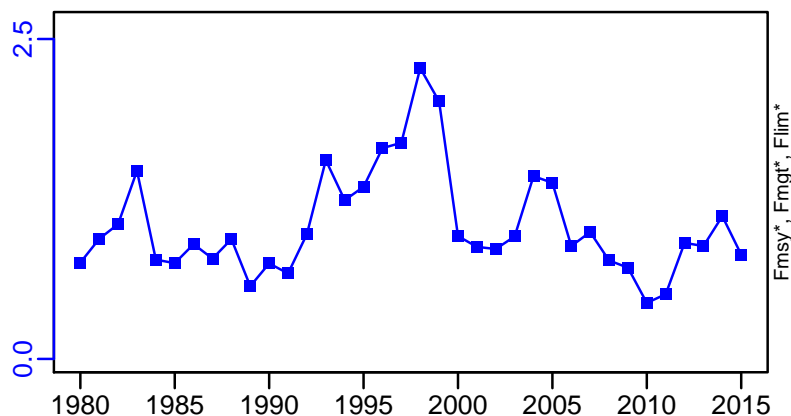
SSB-relative (1979–2016–ICESIMP2016)



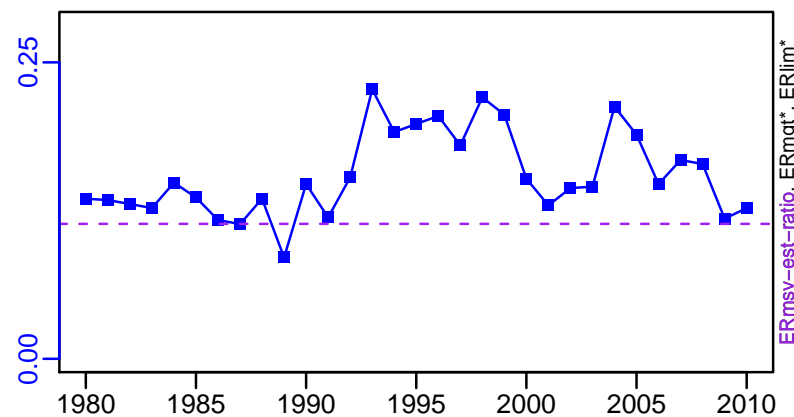
TN *



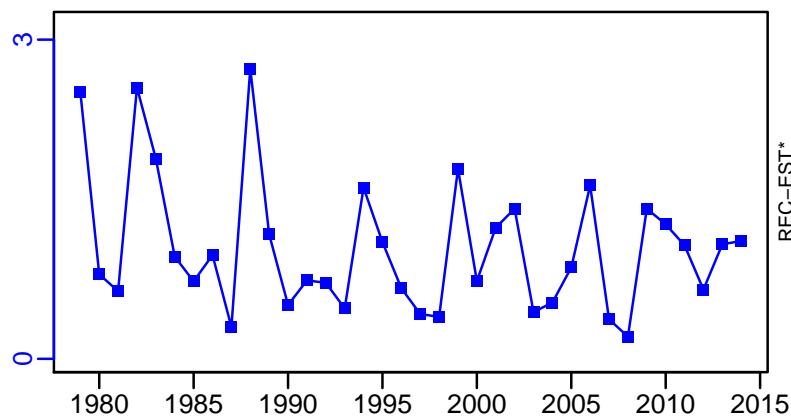
F-relative (1979–2016–ICESIMP2016)



ER-ratio (1979–2010–NEUBAUER)

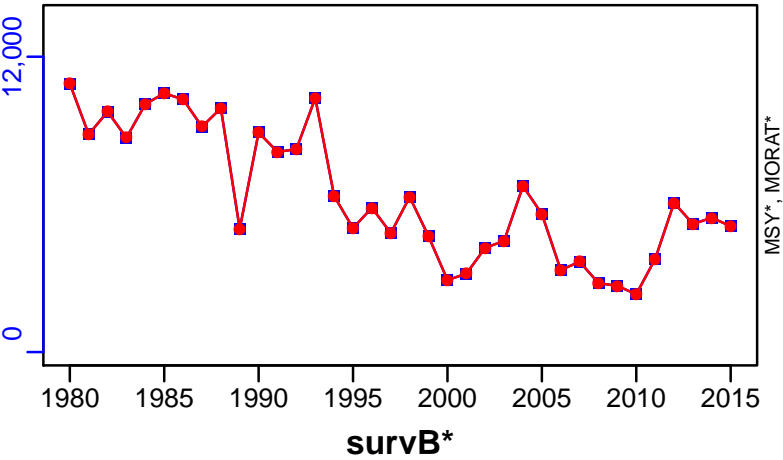


R-relative (1979–2016–ICESIMP2016)



Herring ICES 31 [HERR31]

TC-MT, TL-MT, RecC* (1979-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Herring Northern Irish Sea [HERRNIRS]

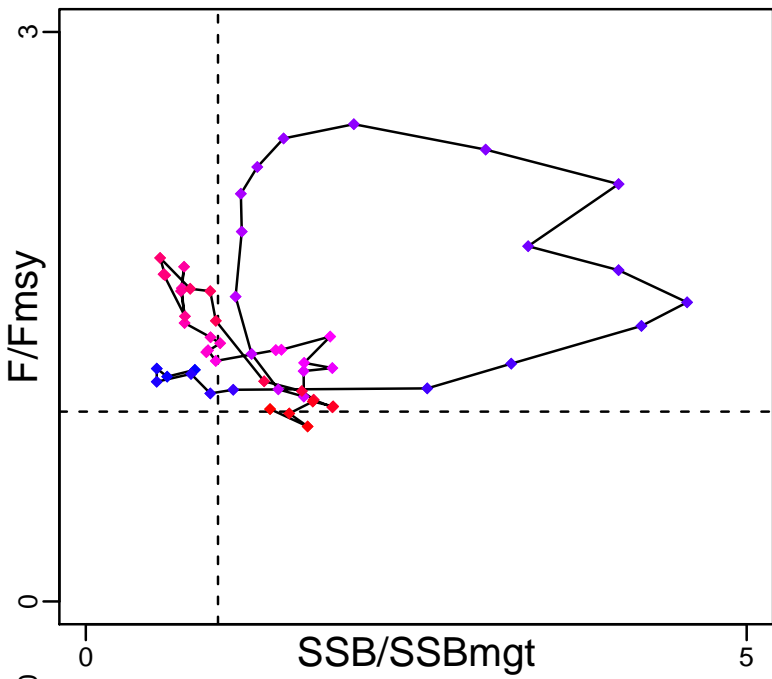
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNIRS-1960-2016-ICESIMP2016
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	141,328
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	ERmsy-est-ratio	2010	0.14
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	9500
Fmgt	Fmgt-1/yr	2016	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	19,292
M	-	-	-
TBlim	TBlim-MT	2010	6000
SSBlim	SSBlim-MT	2016	6000
Flim	-	-	-
ERlim	-	-	-

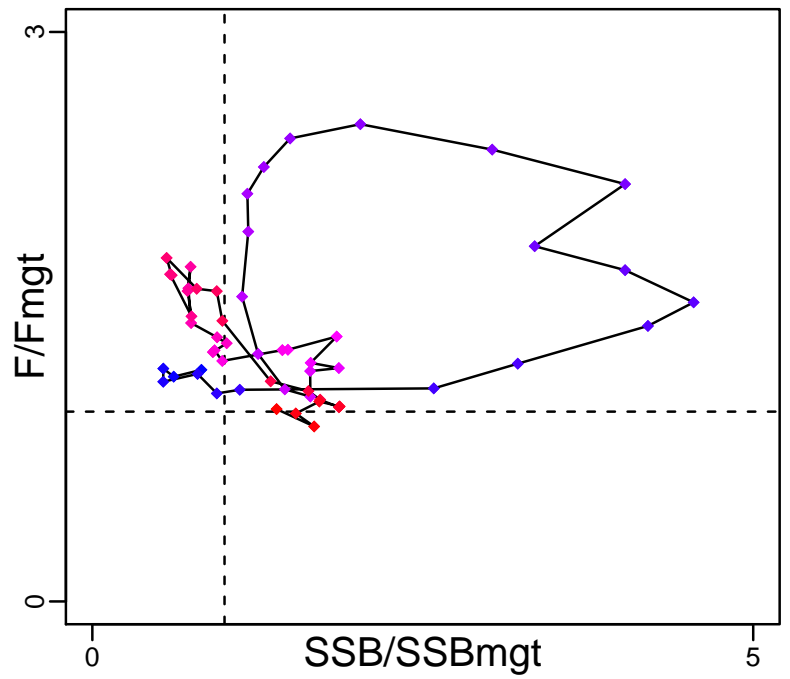
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	33,300	-	-
SSB	SSB-MT	2016	13,200	-	-
TN	-	-	-	-	-
R	R-E00	2016	1.53×10^8	-	1
F	F-1/yr	2016	0	-	4 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	4870		
TL	TL-MT	2016	4870		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.22		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.01		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	1.14		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.39		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.01		
ER/ERmgt	-	-	-		

Herring Northern Irish Sea [HERRNIRS]

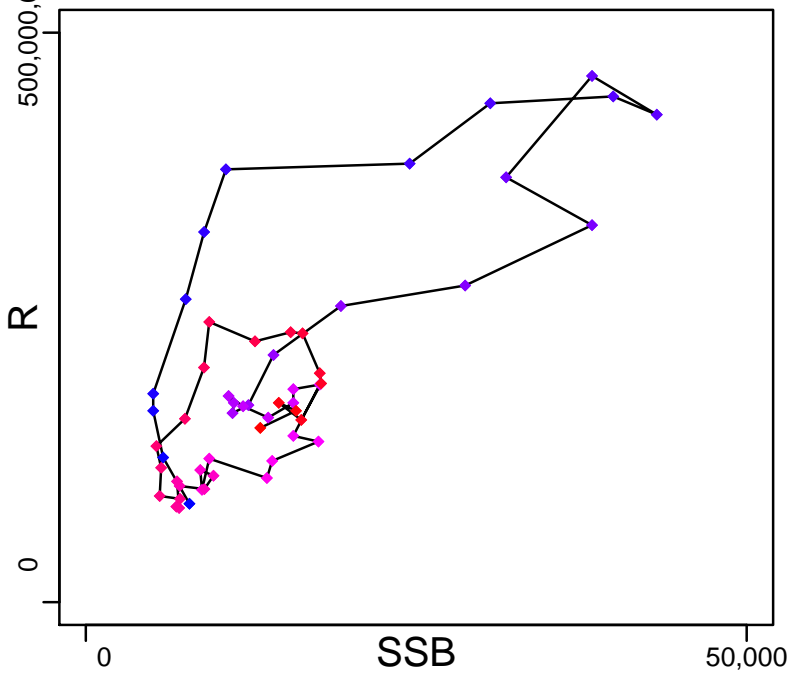
Kobe MSYpref (1960–2016–ICESIMP2016)



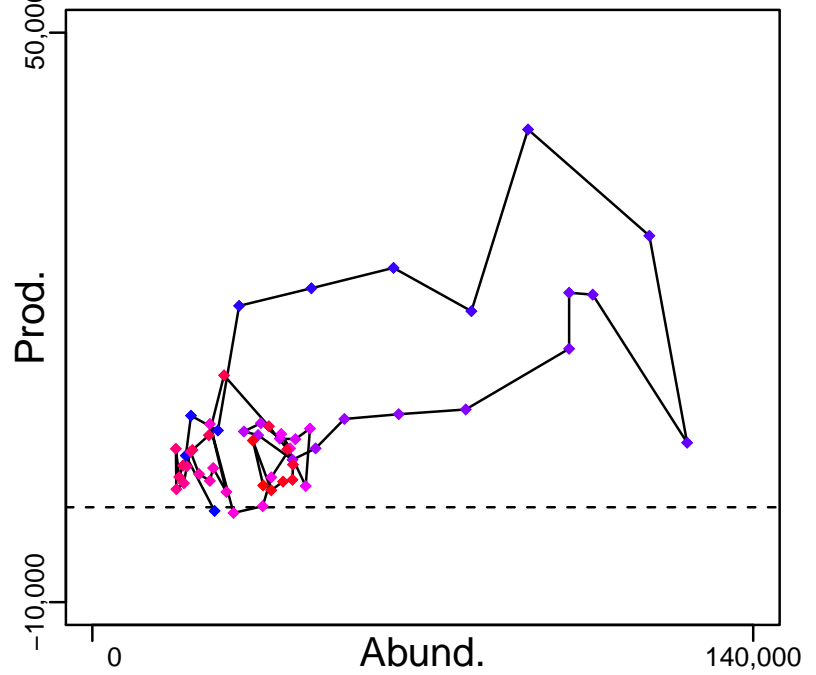
Kobe MGTpref (1960–2016–ICESIMP2016)



Spawner Recruit (1960–2016–ICESIMP2016)

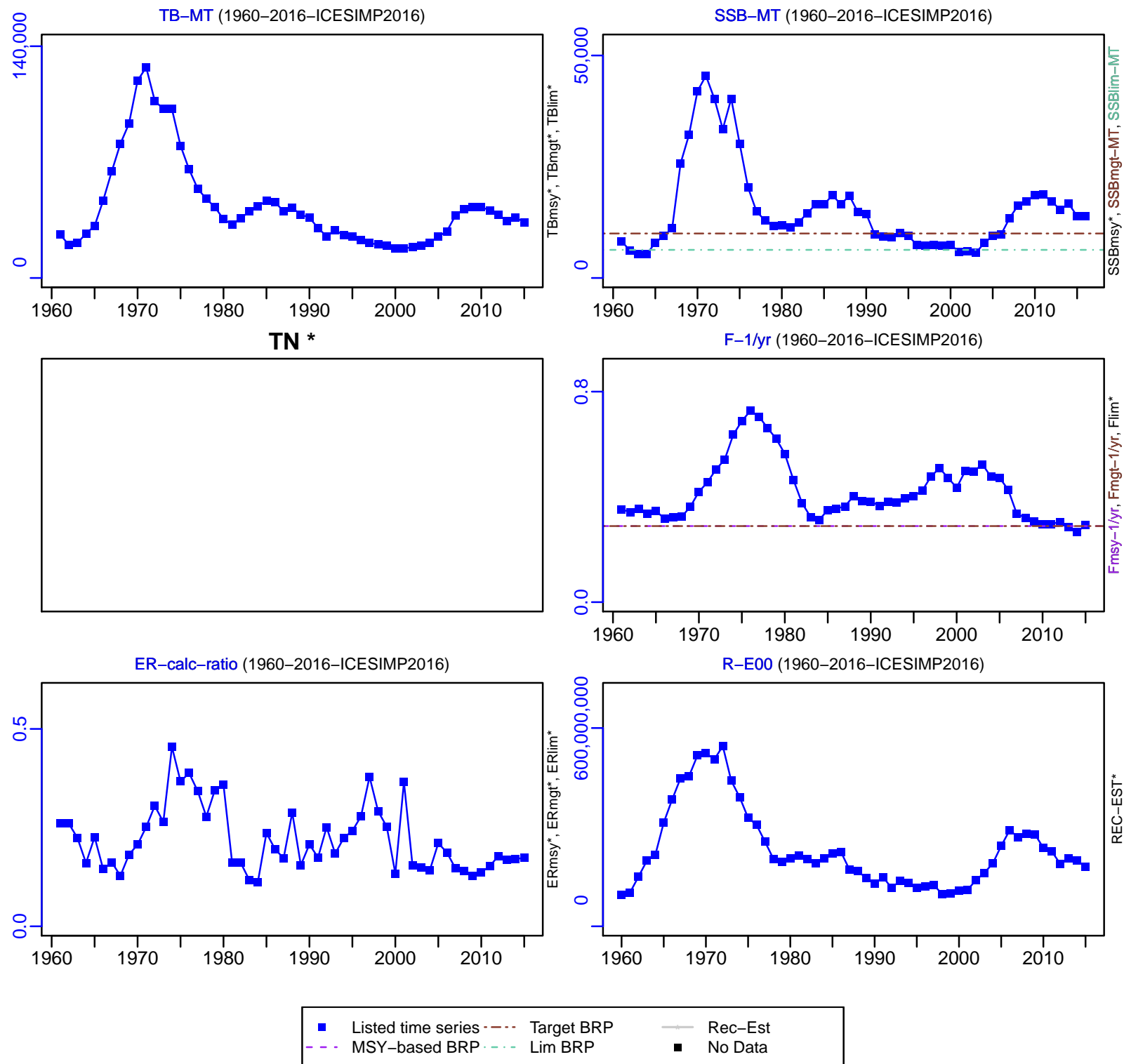


Production (1960–2016–ICESIMP2016)



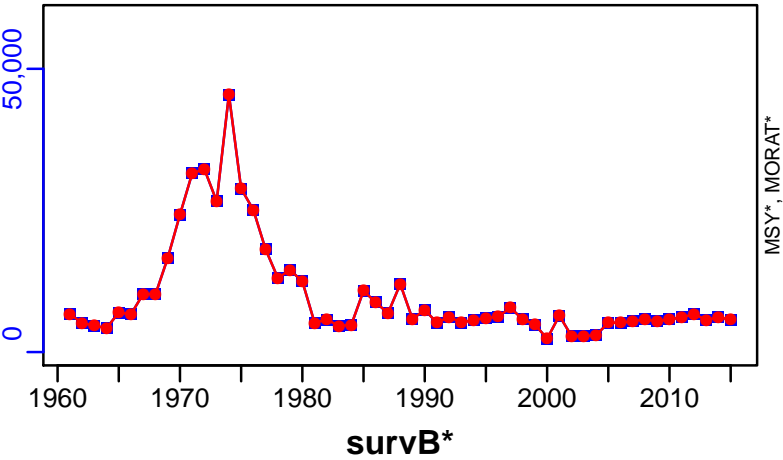
◆ Start Year ◆ End Year * No Data

Herring Northern Irish Sea [HERRNIRS]



Herring Northern Irish Sea [HERRNIRS]

TC-MT, TL-MT, RecC* (1960–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

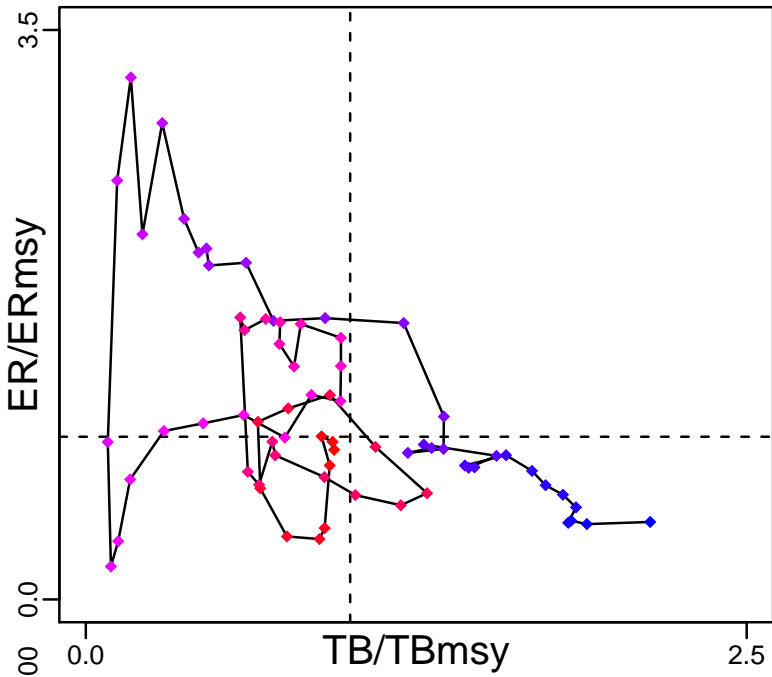
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRNS-IIIa-VIId-1947-2016-ICESIMP2016
Area	IIIa, VIId and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	4,083,793
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.33
ERmsy	ERmsy-est-ratio	2016	0.14
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	1,500,000
Fmgt	Fmgt-1/yr	2016	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	572,133
M	-	-	-
TBlim	TBlim-MT	2011	8×10^5
SSBlim	SSBlim-MT	2016	8×10^5
Flim	Flim-1/yr	2016	0.39
ERlim	-	-	-

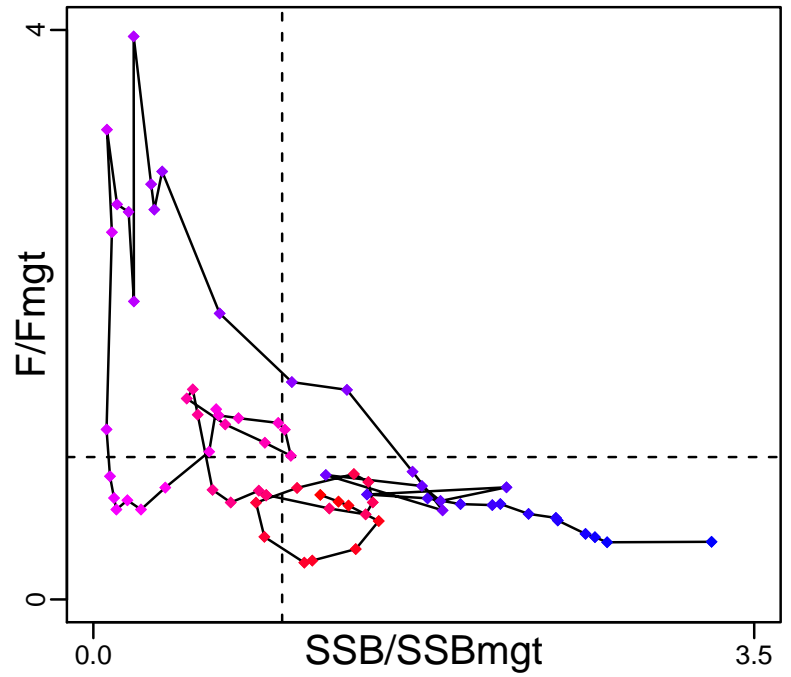
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.94		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.92		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

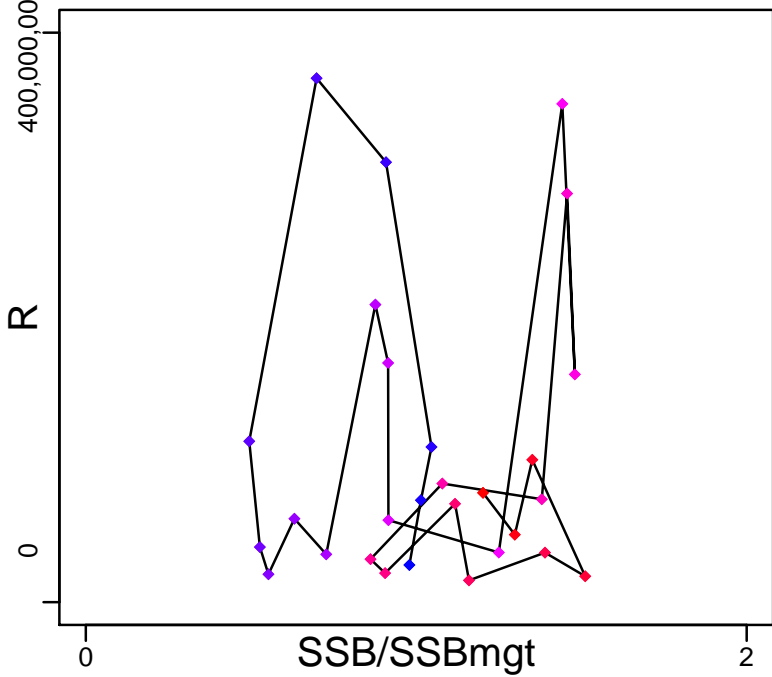
Kobe MSY_{pref} (1947–2016–ICESIMP2016)



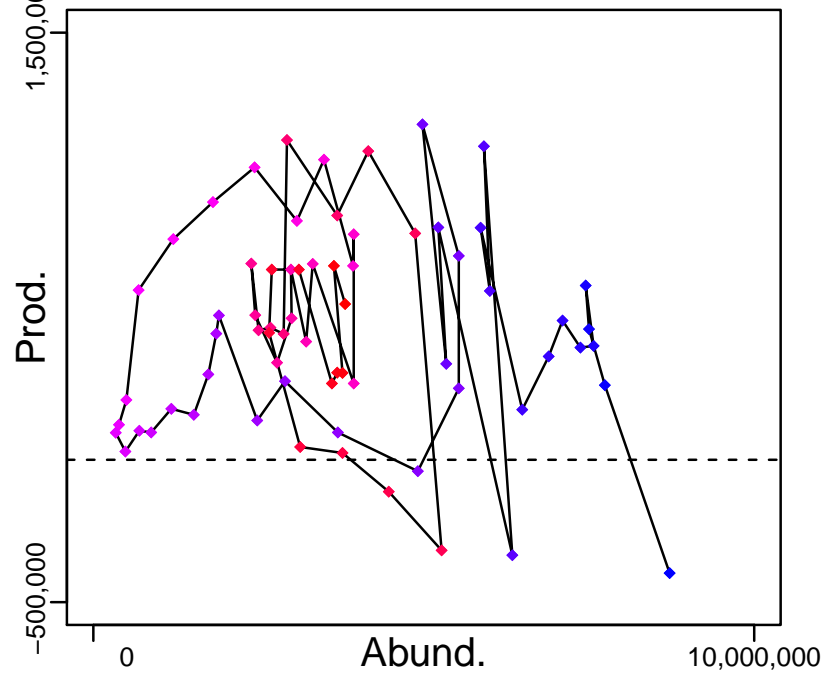
Kobe MGT_{pref} (1947–2016–ICESIMP2016)



Spawner Recruit (1947–2016–ICESIMP2016)



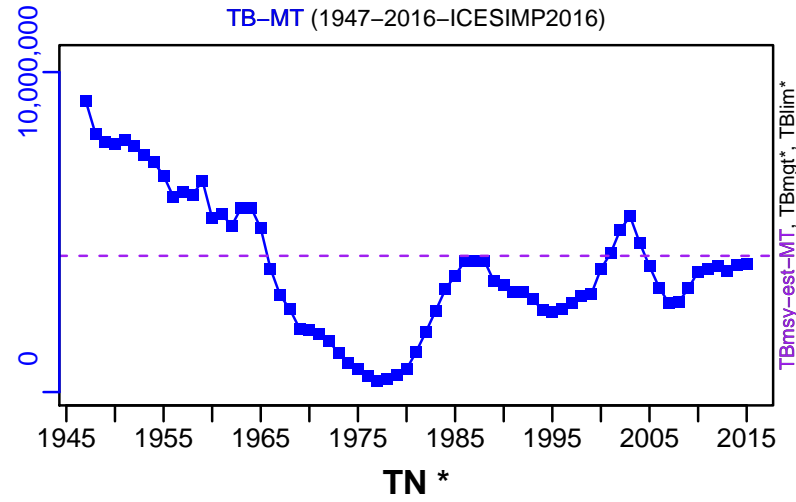
Production (1947–2016–ICESIMP2016)



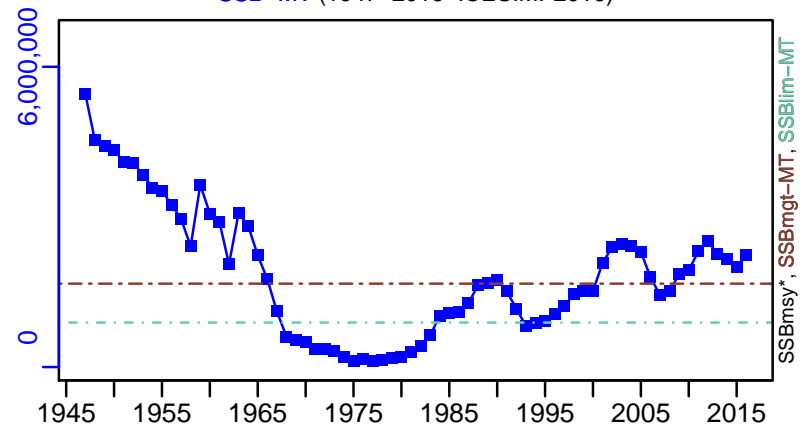
◆ Start Year ◆ End Year * No Data

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

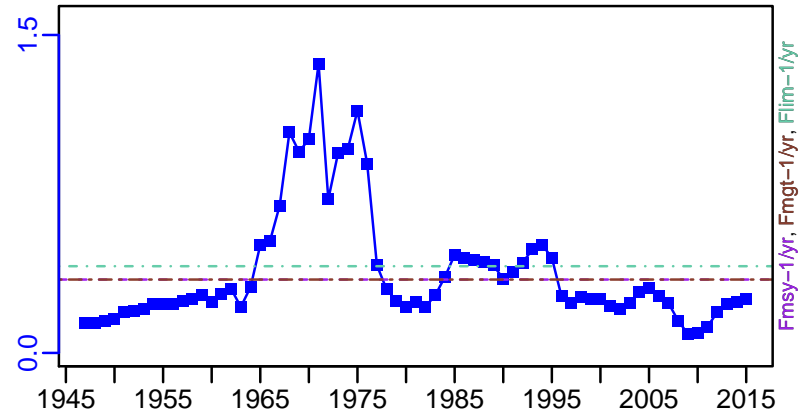
TB-MT (1947-2016-ICESIMP2016)



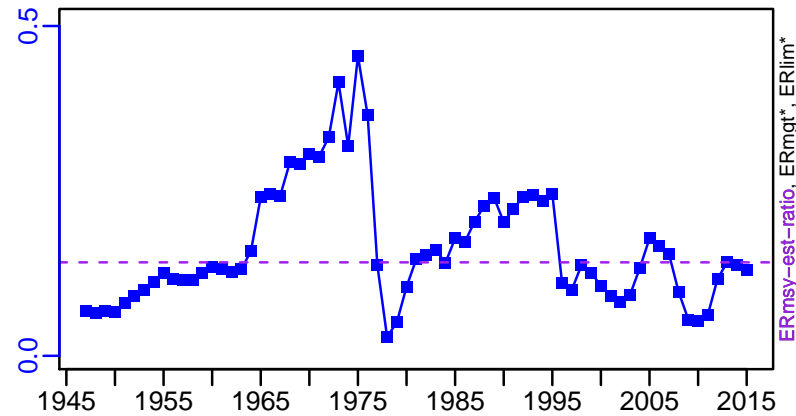
SSB-MT (1947-2016-ICESIMP2016)



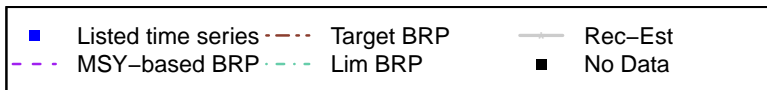
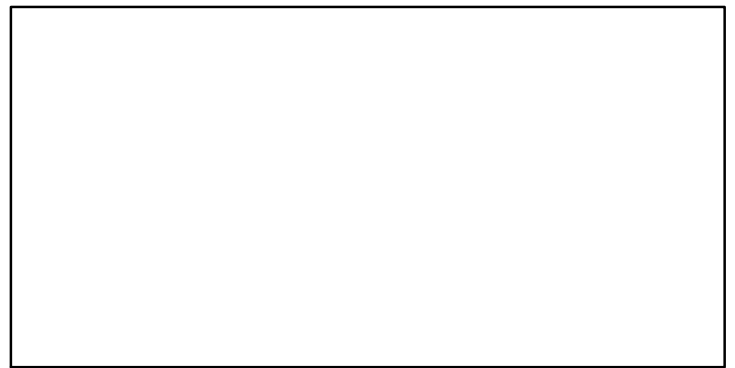
F-1/yr (1947-2016-ICESIMP2016)



ER-calc-ratio (1947-2016-ICESIMP2016)



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

—

MORAT

*

No Data

Herring ICES 28 [HERRRIGA]

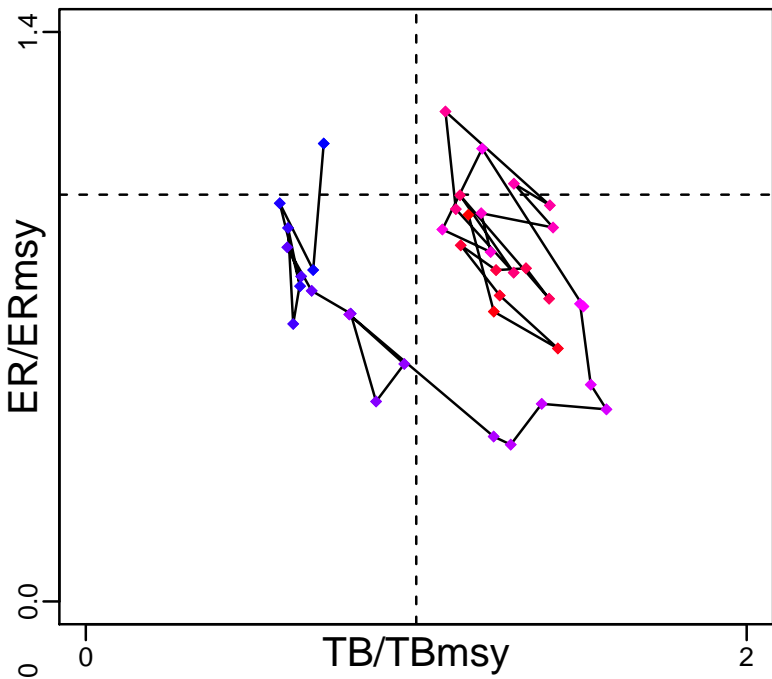
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGBFAS-HERRRIGA-1976-2016-ICESIMP2016
Area	Gulf of Riga East of Gotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	110,753
SSBmsy	SSBmsy-MT	2011	60,000
Fmsy	Fmsy-1/yr	2016	0.32
ERmsy	ERmsy-est-ratio	2016	0.27
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	60,000
Fmgt	Fmgt-1/yr	2016	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	29,839
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	40,800
Flim	Flim-1/yr	2016	0.88
ERlim	-	-	-

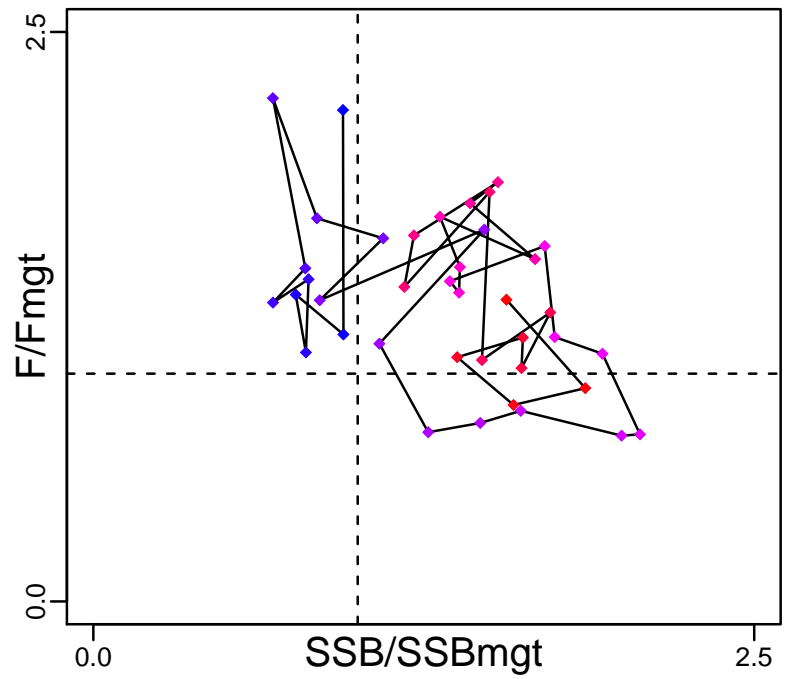
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	128,000	-	-
SSB	SSB-MT	2016	78,200	-	-
TN	-	-	-	-	-
R	R-E00	2016	2.99×10^9	-	1
F	F-1/yr	2016	0	-	3 to 7
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	32,900		
TL	TL-MT	2016	32,900		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.16		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	1.26		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.32		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.95		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.3		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.32		
ER/ERmgt	-	-	-		

Herring ICES 28 [HERRRIGA]

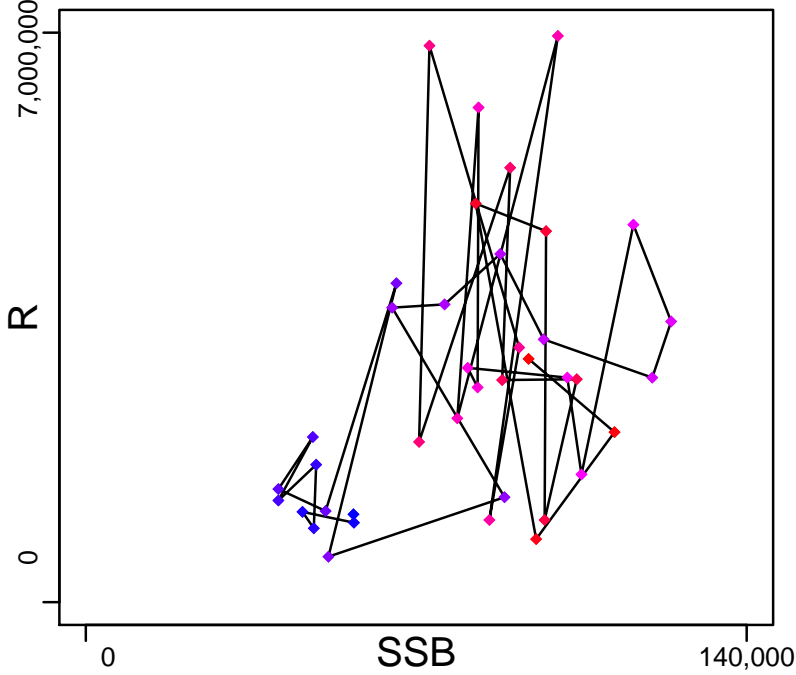
Kobe MSYpref (1976–2016–ICESIMP2016)



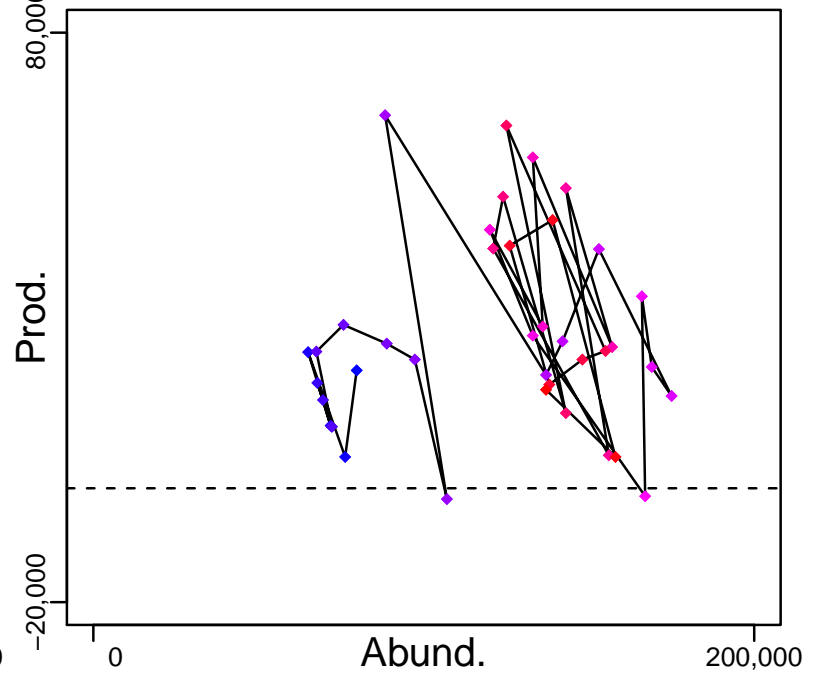
Kobe MGTpref (1976–2016–ICESIMP2016)



Spawner Recruit (1976–2016–ICESIMP2016)

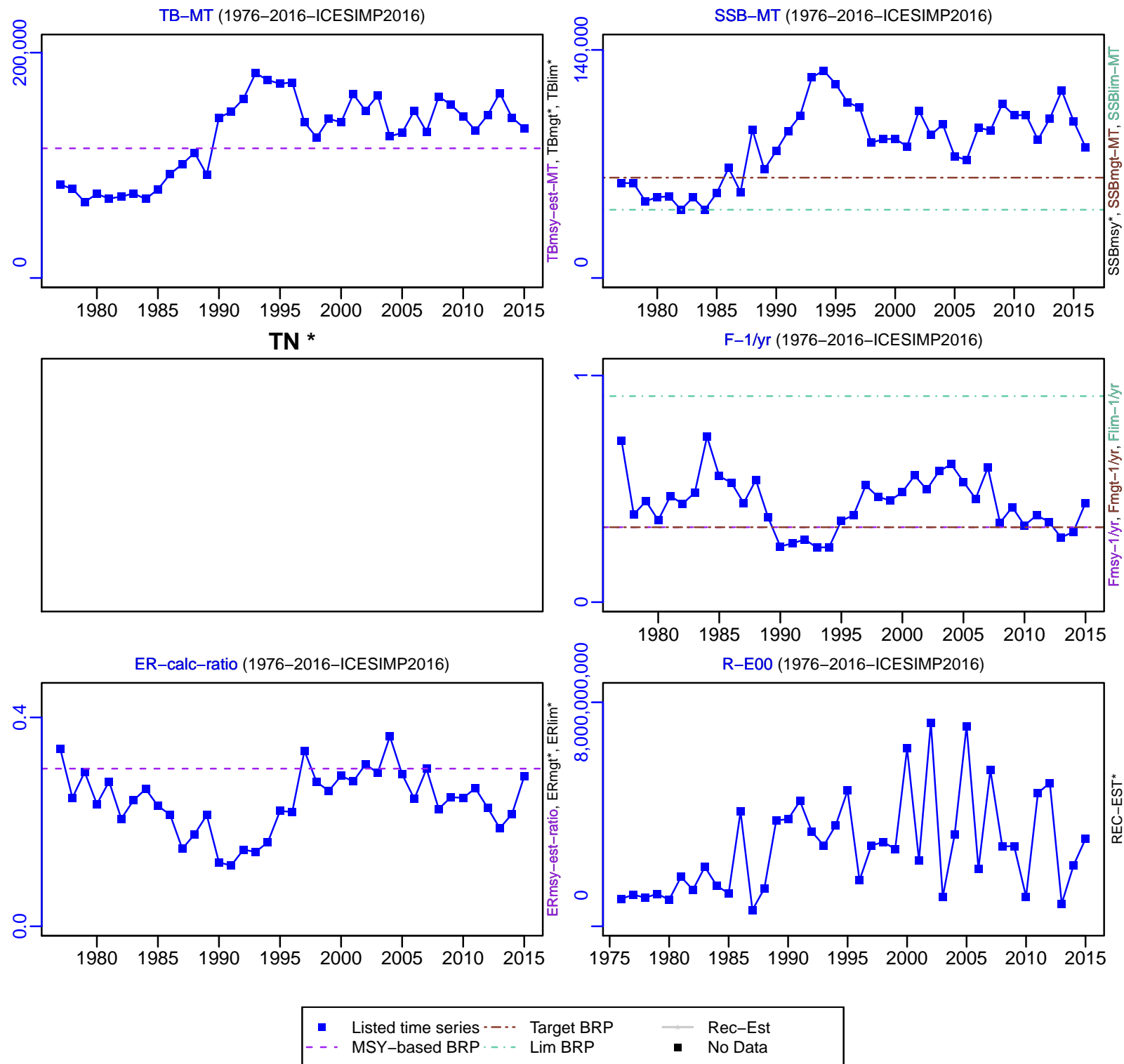


Production (1976–2016–ICESIMP2016)



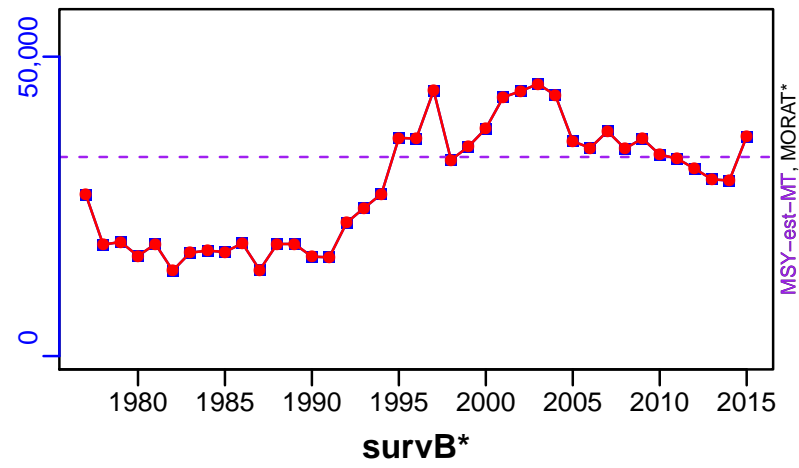
◆ Start Year ◆ End Year * No Data

Herring ICES 28 [HERRRIGA]



Herring ICES 28 [HERRRIGA]

TC-MT, TL-MT, RecC* (1976-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

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

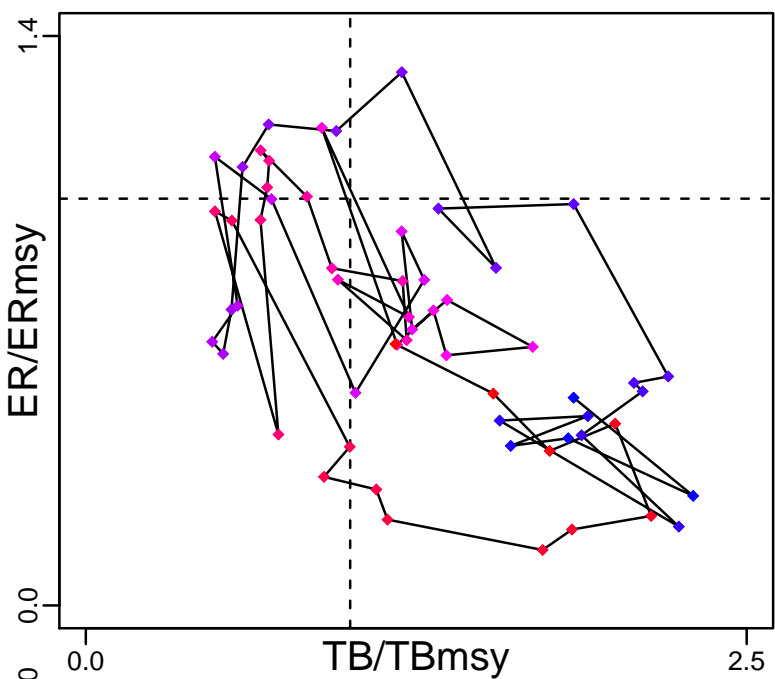
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRSIRS-1957-2016-ICESIMP2016
Area	ICES VIIa-g-h-j
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2012, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	123,888
SSBmsy	SSBmsy-est-MT	2015	174,219
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	ERmsy-est-ratio	2016	0.2
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	54,000
Fmgt	Fmgt-1/yr	2016	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	24,380
M	-	-	-
TBlim	TBlim-MT	2010	26,000
SSBlim	SSBlim-MT	2016	33,000
Flim	Flim-1/yr	2016	0.61
ERlim	-	-	-

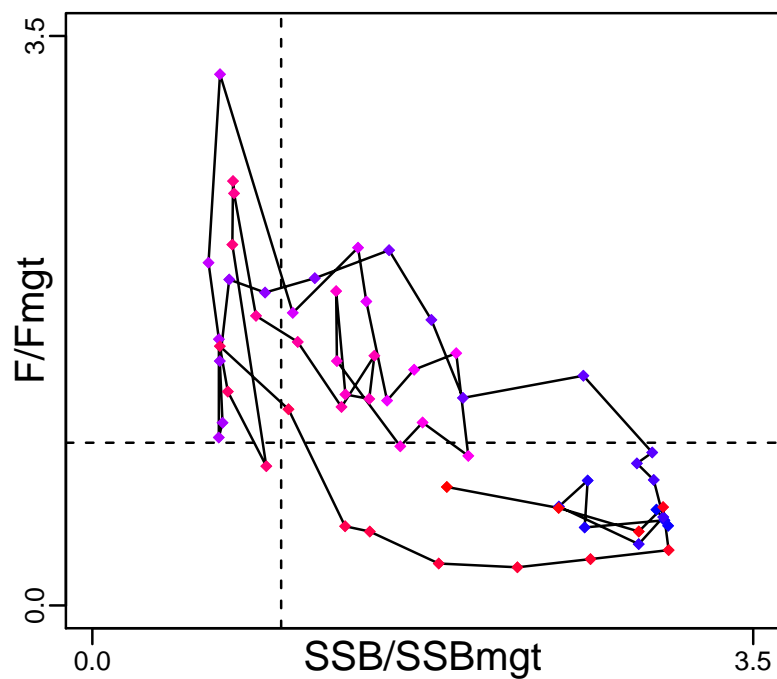
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	145,000	-	-
SSB	SSB-MT	2016	84,900	-	-
TN	-	-	-	-	-
R	R-E00	2016	5.38×10^8	-	1
F	F-1/yr	2016	0	-	2 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	18,400		
TL	TL-MT	2014	16,100		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.17		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2015	0.52		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.73		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.64		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.57		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.73		
ER/ERmgt	-	-	-		

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

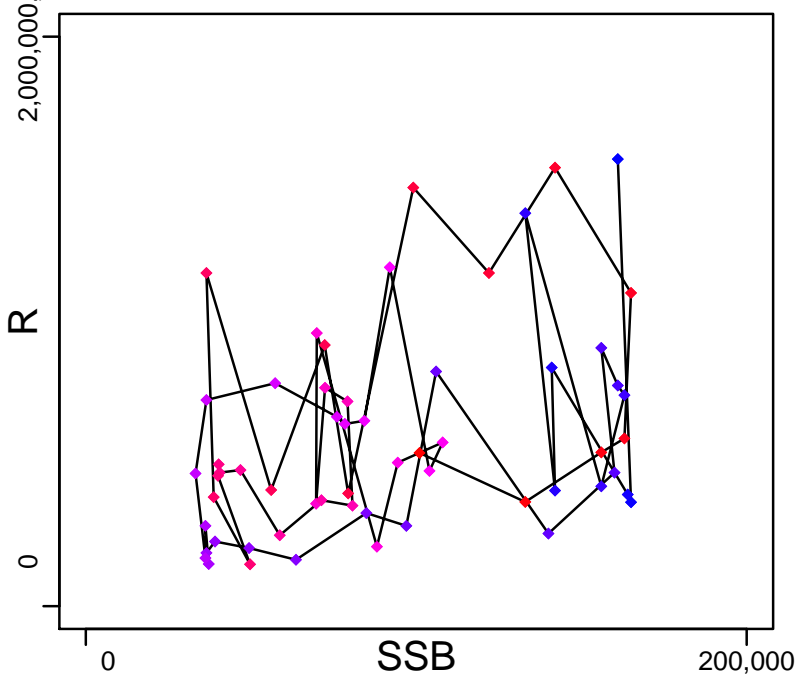
Kobe MSYpref (1957–2016–ICESIMP2016)



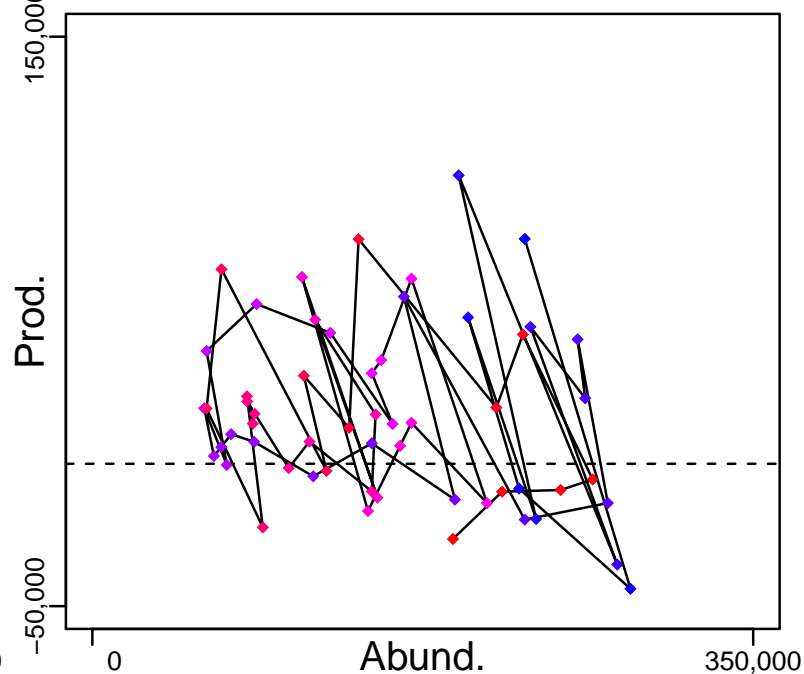
Kobe MGTpref (1957–2016–ICESIMP2016)



Spawner Recruit (1957–2016–ICESIMP2016)



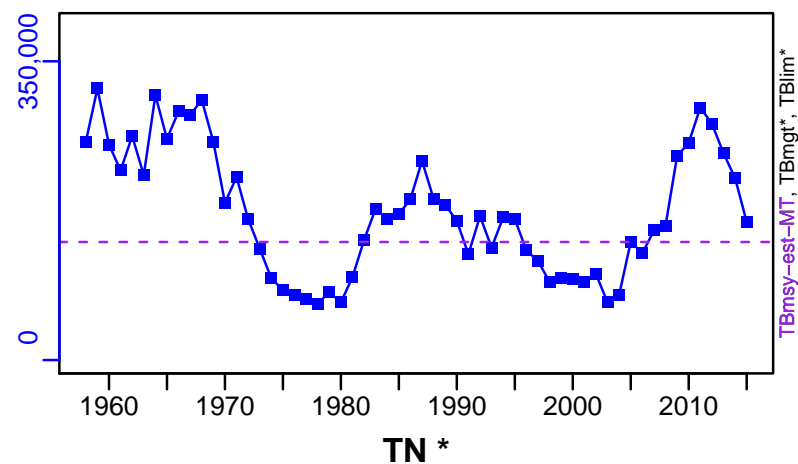
Production (1957–2016–ICESIMP2016)



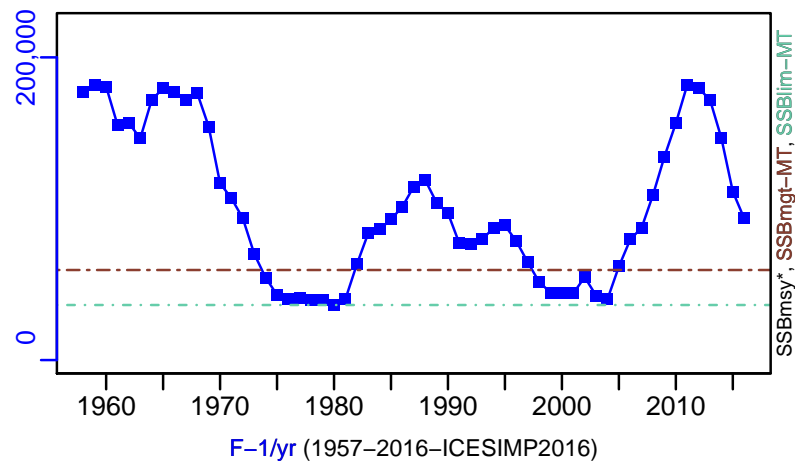
◆ Start Year ◆ End Year * No Data

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

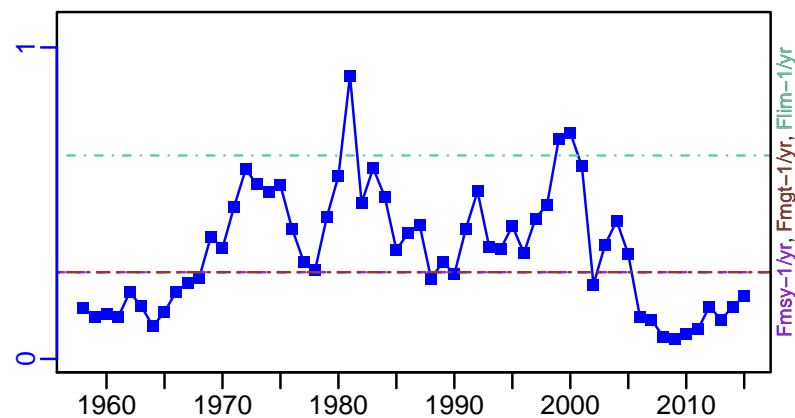
TB-MT (1957–2016–ICESIMP2016)



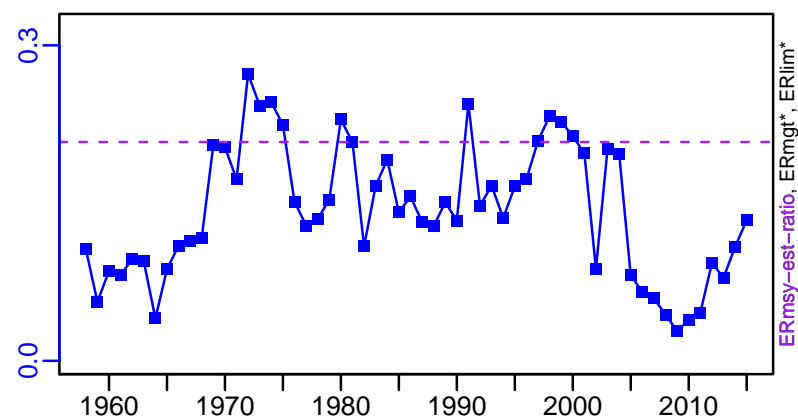
SSB-MT (1957–2016–ICESIMP2016)



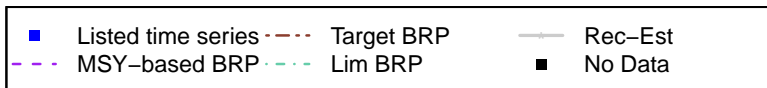
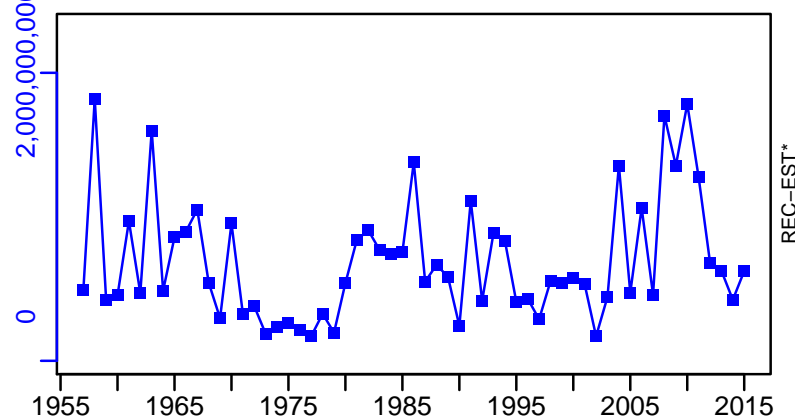
F-1/yr (1957–2016–ICESIMP2016)



ER-calc-ratio (1957–2016–ICESIMP2016)



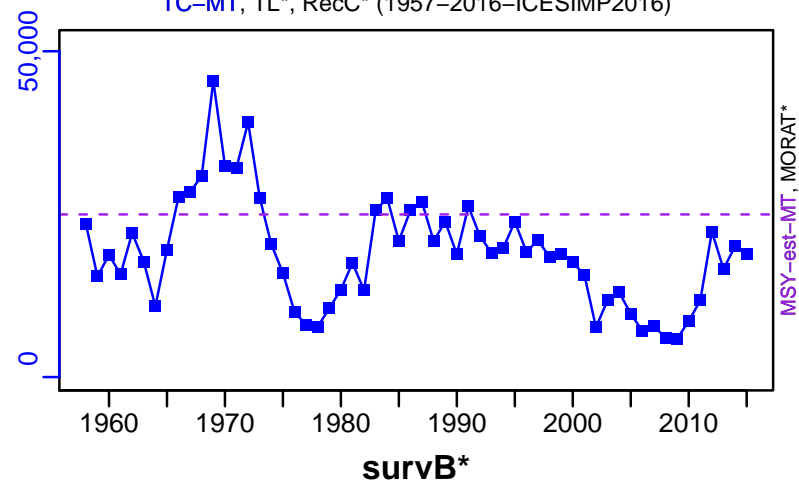
R-E00 (1957–2016–ICESIMP2016)



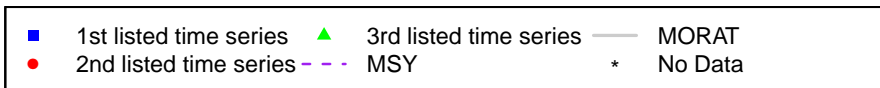
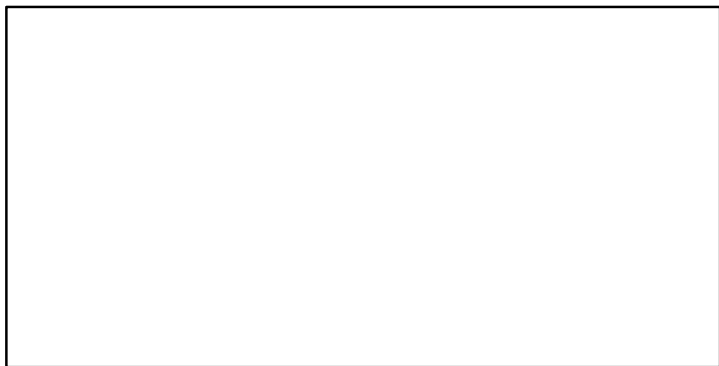
Herring ICES VIIa-g-h-j [HERRSIRS]

TC-MT, TL*, RecC* (1957-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Herring ICES VIa [HERRVIa]

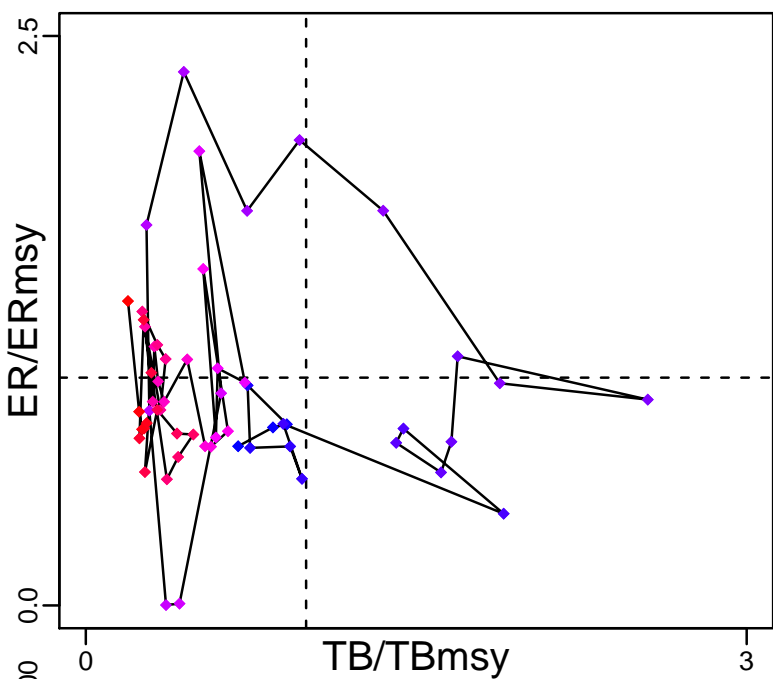
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVIa-1956-2014-ICESIMP2016
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	595,081
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2010	0.25
ERmsy	ERmsy-est-ratio	2014	0.15
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	75,000
Fmgt	Fmgt-1/yr	2014	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	89,879
M	-	-	-
TBlim	TBlim-MT	2010	50,000
SSBlim	SSBlim-MT	2014	50,000
Flim	-	-	-
ERlim	-	-	-

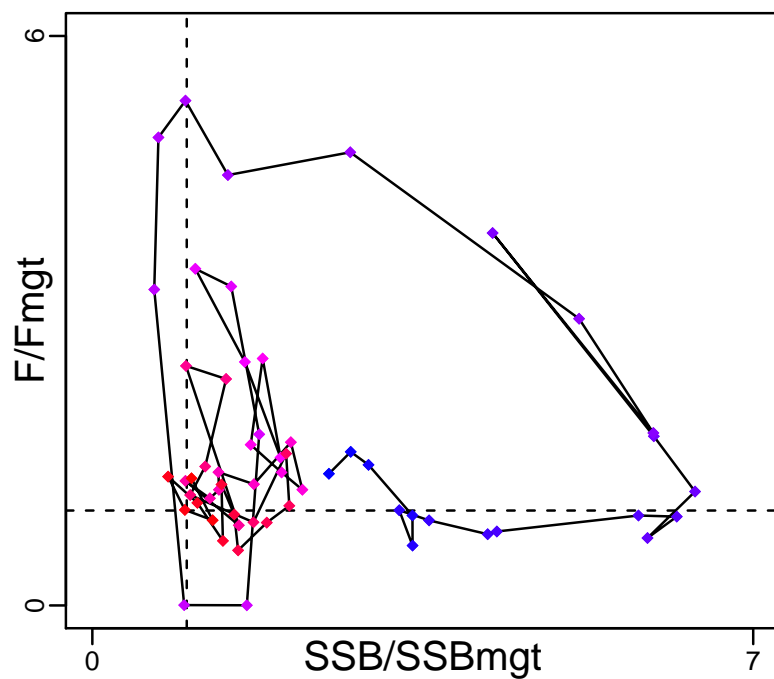
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	114,000	-	-
SSB	SSB-MT	2014	78,800	-	-
TN	-	-	-	-	-
R	R-E00	2014	6×10^8	-	1
F	F-1/yr	2014	0	-	3 to 6 ringer
ER	ER-calc-ratio	2014	0	-	-
TC	-	-	-		
TL	TL-MT	2014	23,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.19		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	1.06		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2014	1.34		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.05		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.34		
ER/ERmgt	-	-	-		

Herring ICES Vla [HERRVla]

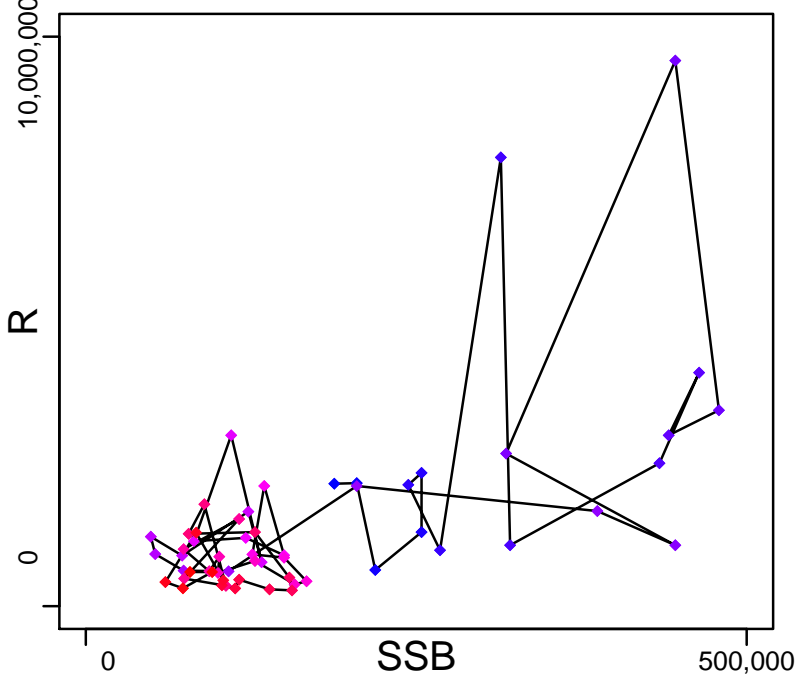
Kobe MSYpref (1956–2014–ICESIMP2016)



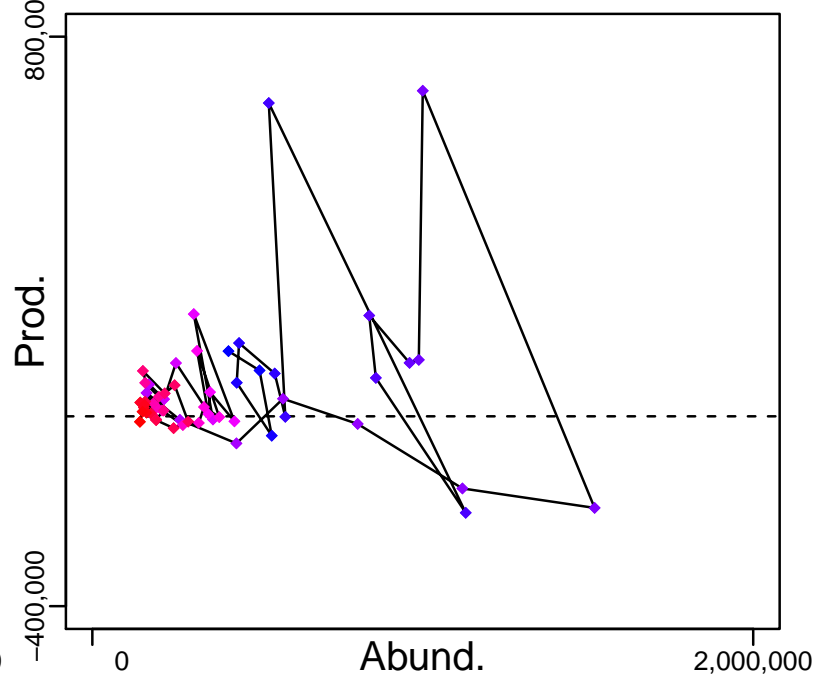
Kobe MGTpref (1956–2014–ICESIMP2016)



Spawner Recruit (1956–2014–ICESIMP2016)



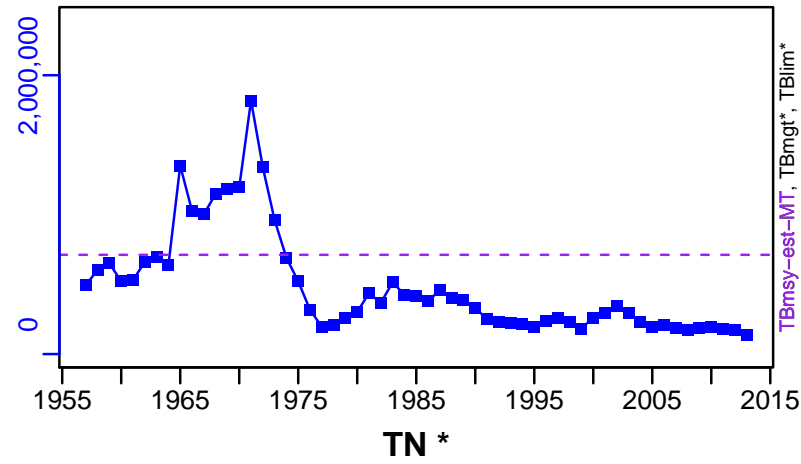
Production (1956–2014–ICESIMP2016)



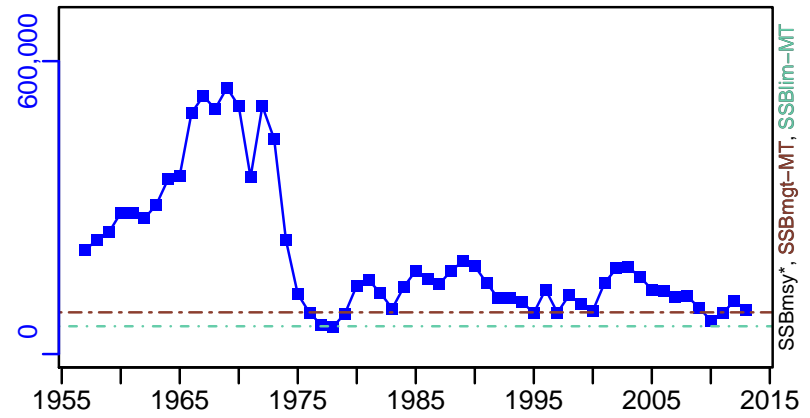
◆ Start Year ◆ End Year * No Data

Herring ICES Vla [HERRVla]

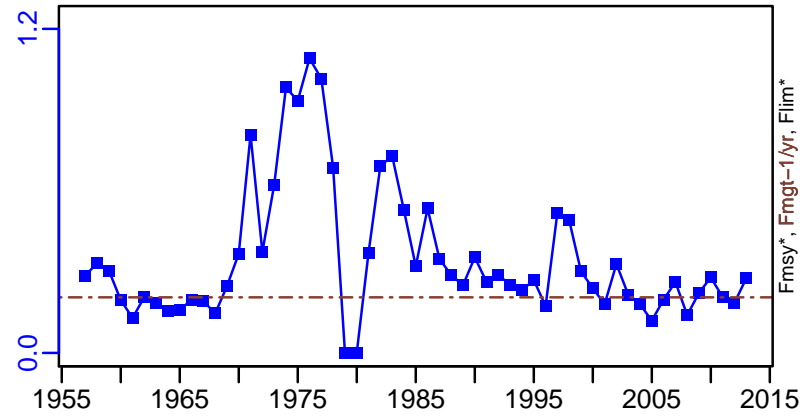
TB-MT (1956–2014–ICESIMP2016)



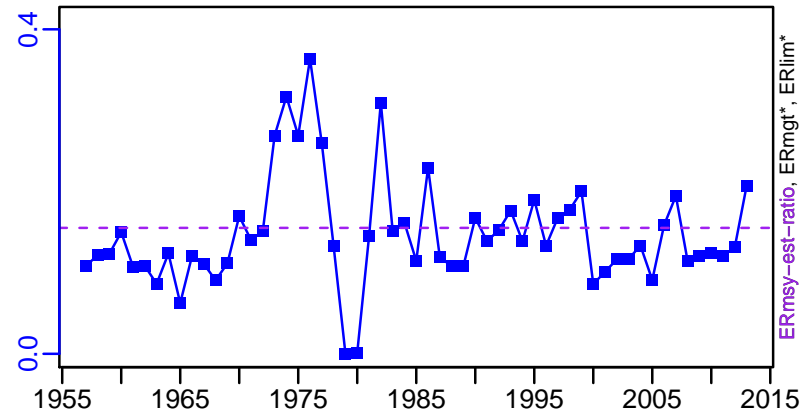
SSB-MT (1956–2014–ICESIMP2016)



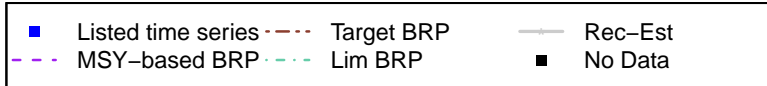
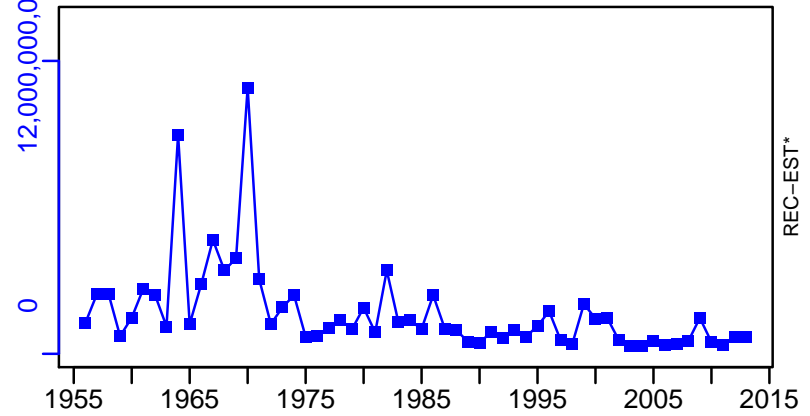
F-1/yr (1956–2014–ICESIMP2016)



ER-calc-ratio (1956–2014–ICESIMP2016)

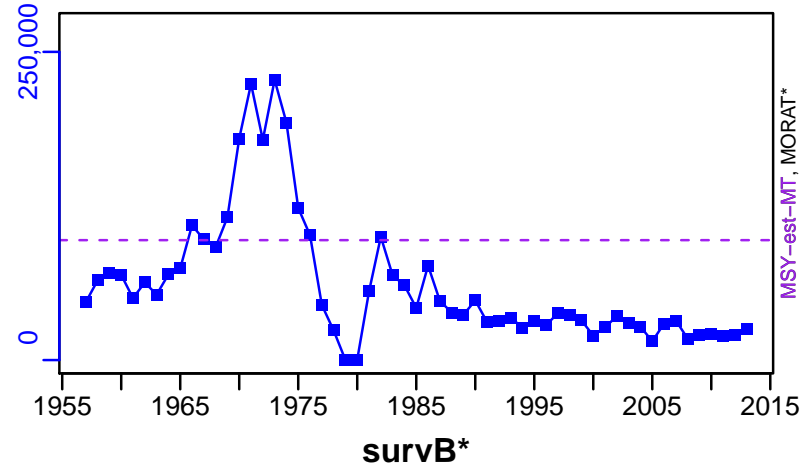


R-E00 (1956–2014–ICESIMP2016)

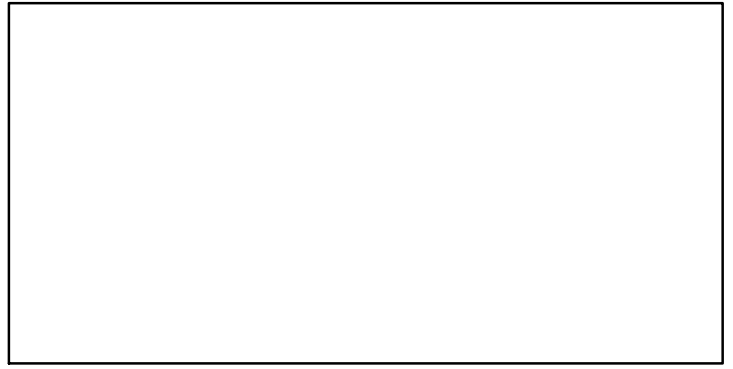


Herring ICES VIa [HERRVIa]

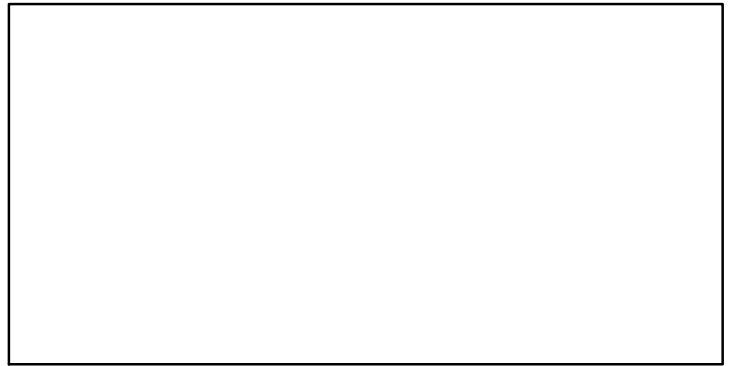
TL-MT, TC*, RecC* (1956–2014–ICESIMP2016)



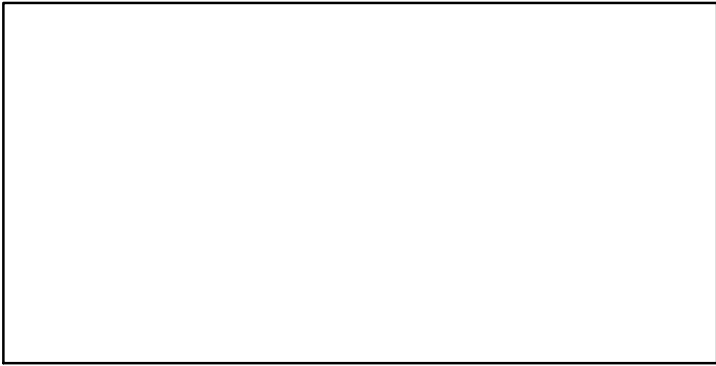
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]

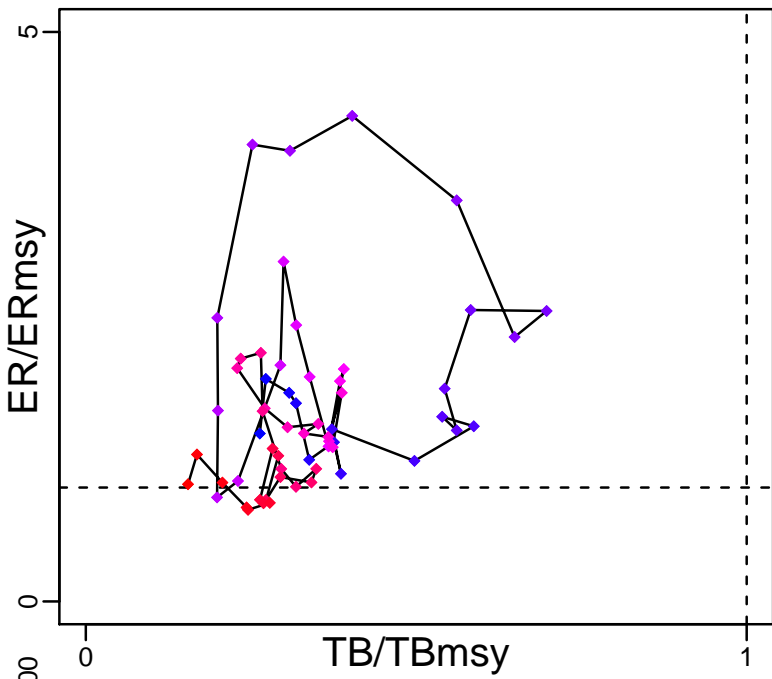
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	HAWG-HERRVIaVIIbc-1956-2016-ICESIMP2016
Area	VIa, VIIb and VIIc
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	2,707,673
SSBmsy	SSBmsy-est-MT	2010	193,733
Fmsy	Fmsy-1/yr	2016	0.16
ERmsy	ERmsy-est-ratio	2016	0.05
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	410,000
Fmgt	Fmgt-1/yr	2016	0.16
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	124,969
M	-	-	-
TBlim	TBlim-MT	2010	81,000
SSBlim	SSBlim-MT	2016	250,000
Flim	Flim-1/yr	2016	0.3
ERlim	-	-	-

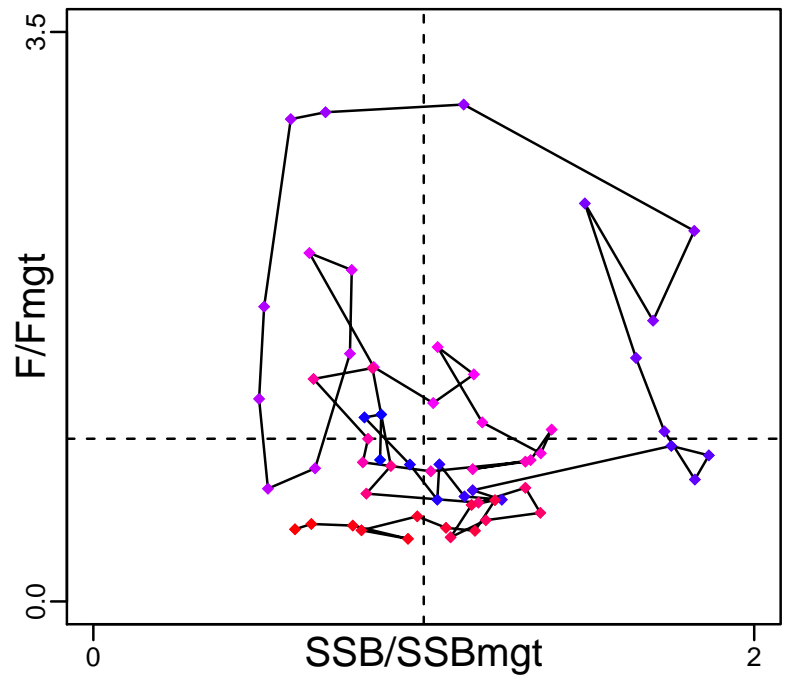
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	419,000	-	-
SSB	SSB-MT	2016	214,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	9.09×10^8	-	1
F	F-1/yr	2016	0	-	3 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	19,900		
TL	TL-MT	2015	27,100		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.15		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.12		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.44		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.03		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.52		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.44		
ER/ERmgt	-	-	-		

Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

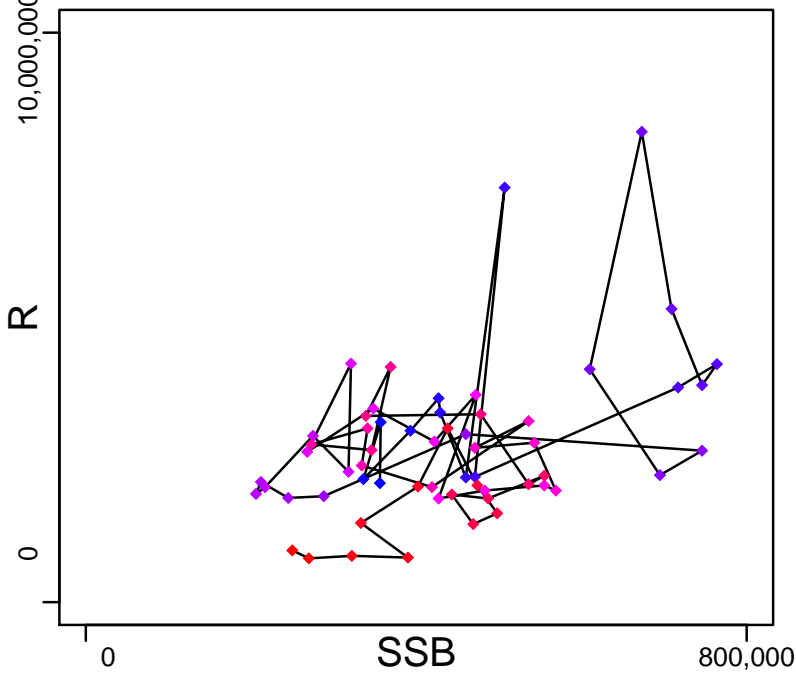
Kobe MSYpref (1956–2016–ICESIMP2016)



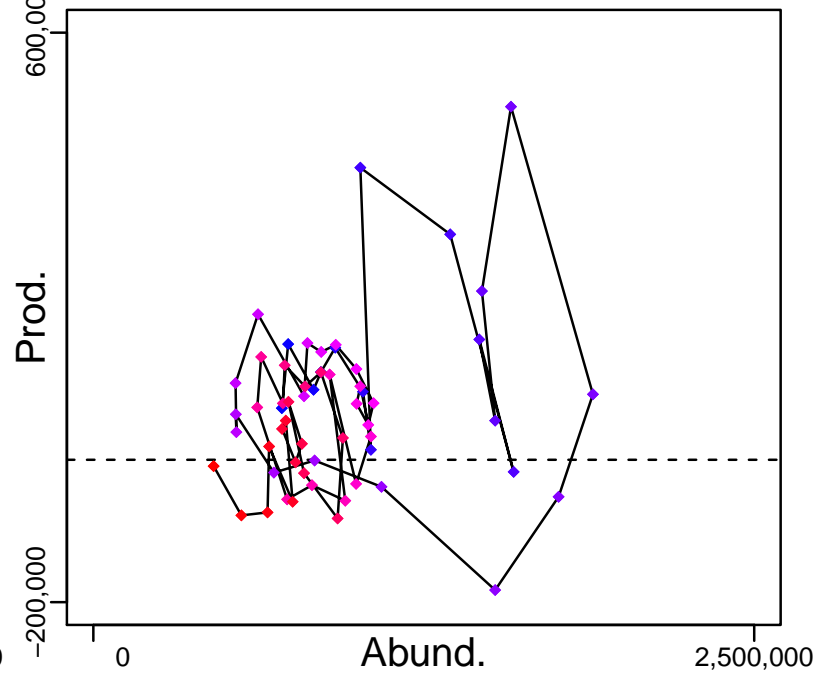
Kobe MGTpref (1956–2016–ICESIMP2016)



Spawner Recruit (1956–2016–ICESIMP2016)



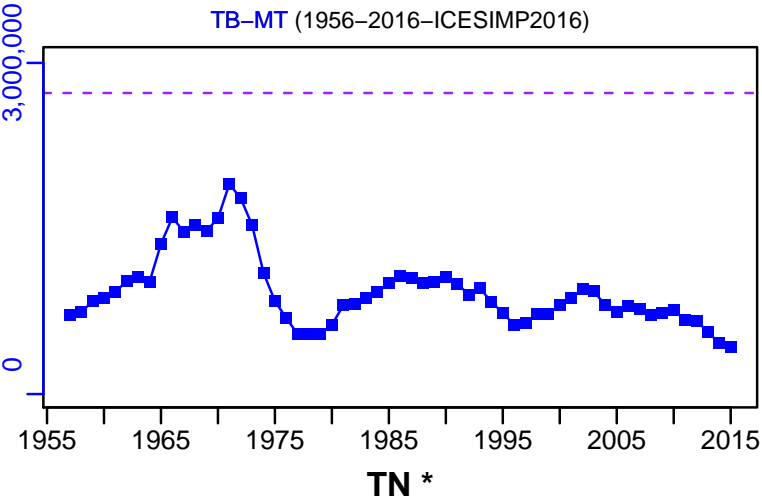
Production (1956–2016–ICESIMP2016)



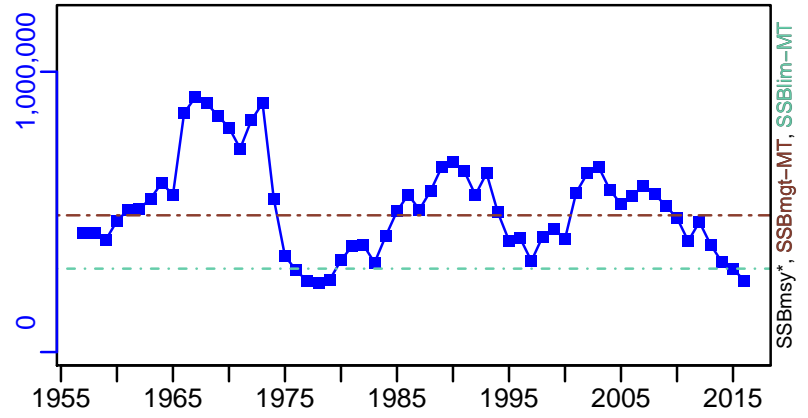
◆ Start Year ◆ End Year * No Data

Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

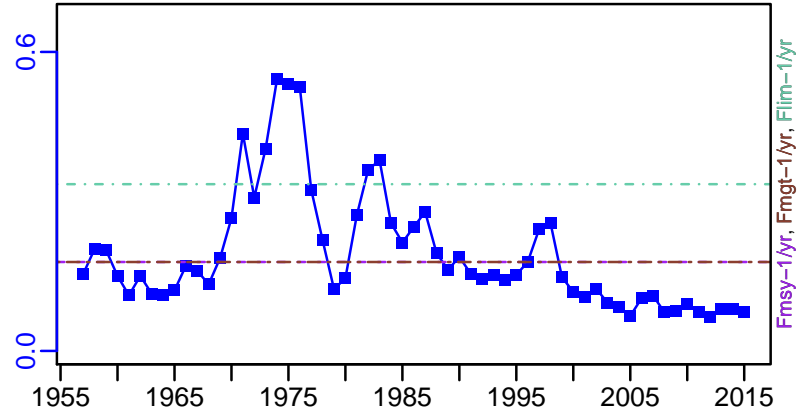
TB-MT (1956–2016–ICESIMP2016)



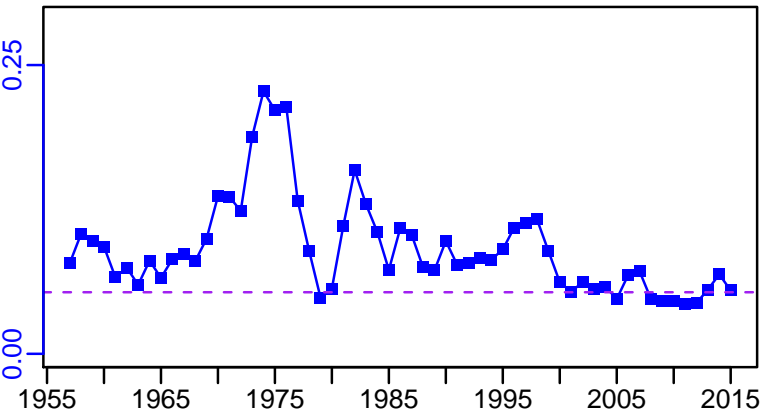
SSB-MT (1956–2016–ICESIMP2016)



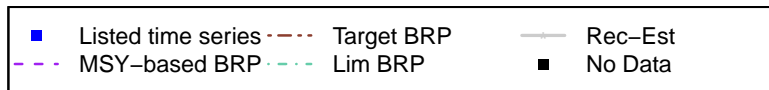
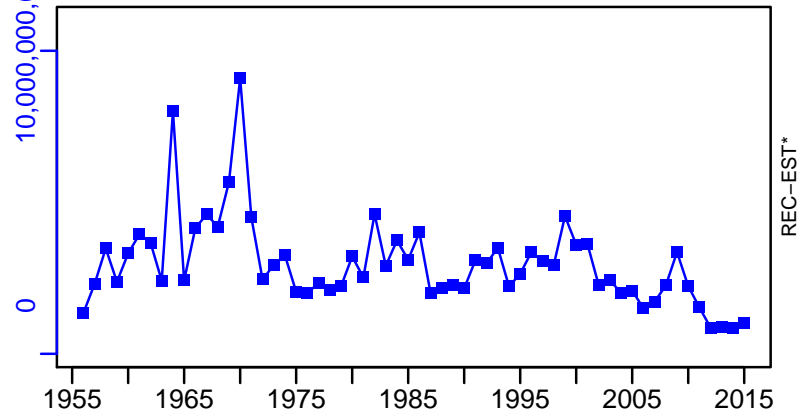
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2016–ICESIMP2016)



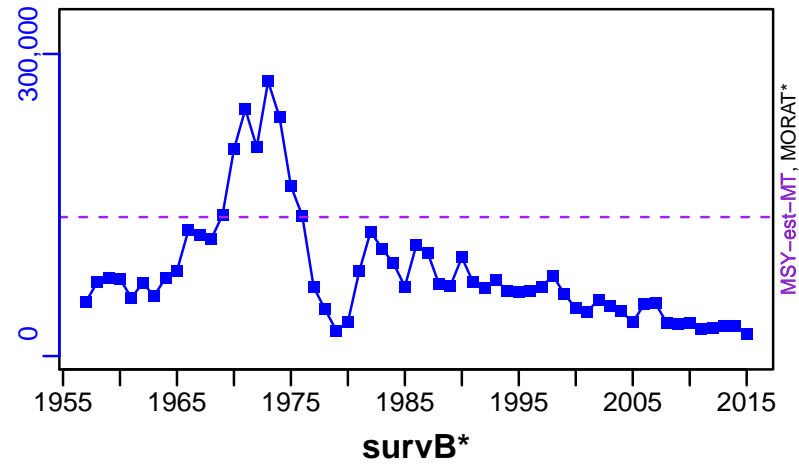
R-E00 (1956–2016–ICESIMP2016)



Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

TC–MT, TL*, RecC* (1956–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

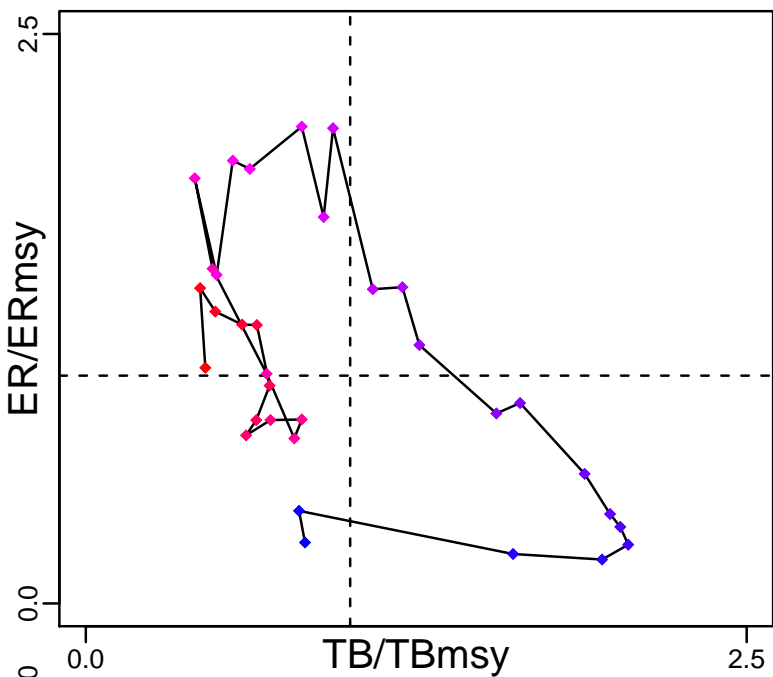
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIa-IVa-Vb-VIa-VII-VIII-1982-2015-ICESIMP2016
Area	IIa-IVa-Vb-VIa-VII-VIII
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2013, 2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	2,530,027
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.13
ERmsy	ERmsy-est-ratio	2015	0.11
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	634,577
Fmgt	Fmgt-1/yr	2015	0.13
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	275,826
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

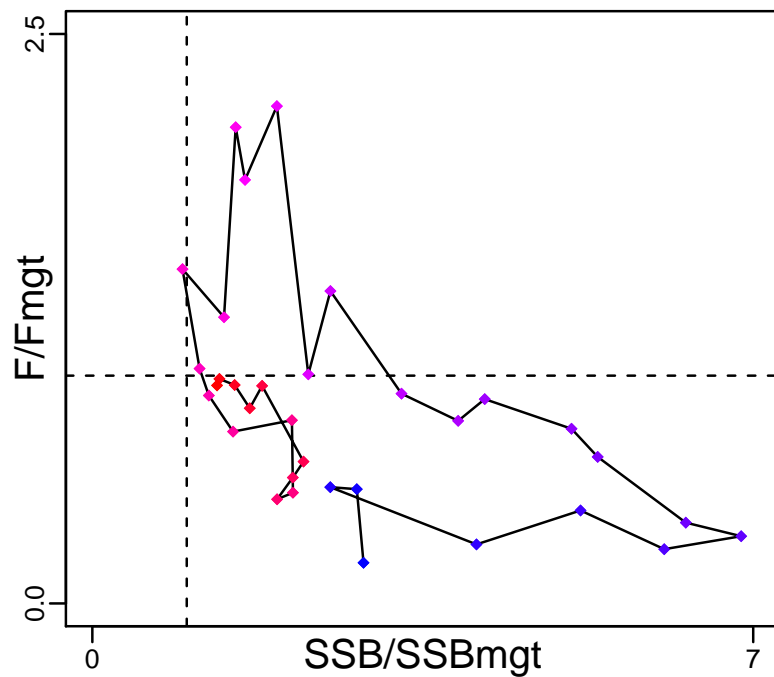
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.45	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	1.03	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

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

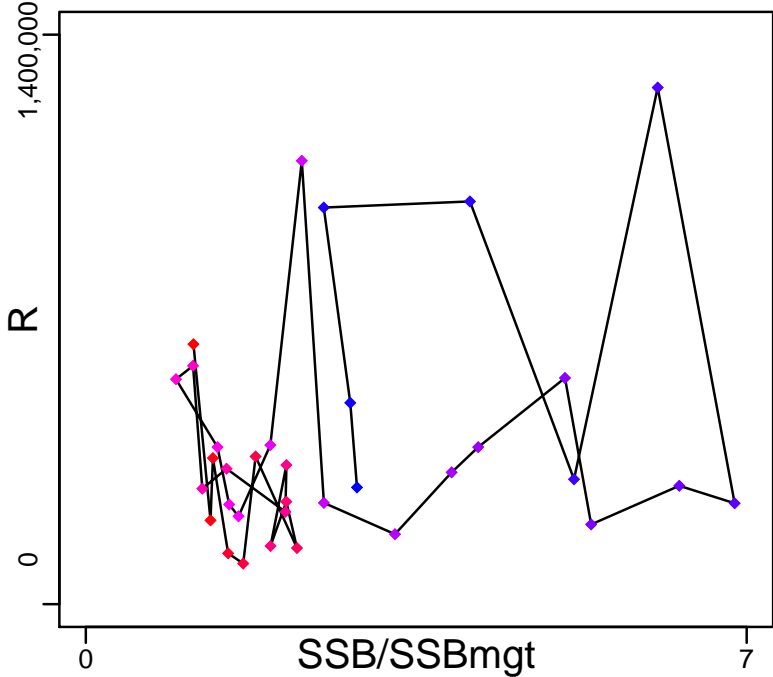
Kobe MSYpref (1982–2015–ICESIMP2016)



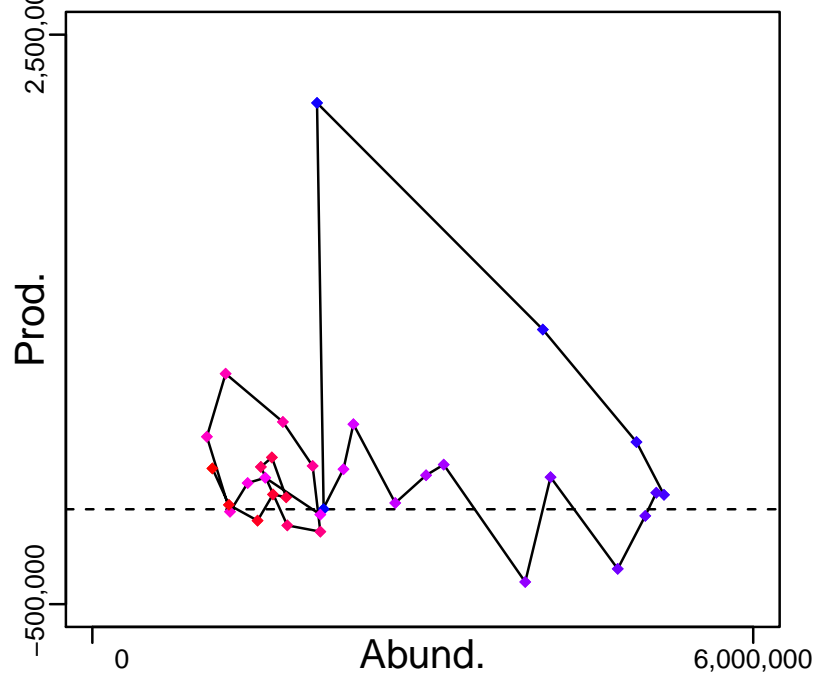
Kobe MGTpref (1982–2015–ICESIMP2016)



Spawner Recruit (1982–2015–ICESIMP2016)



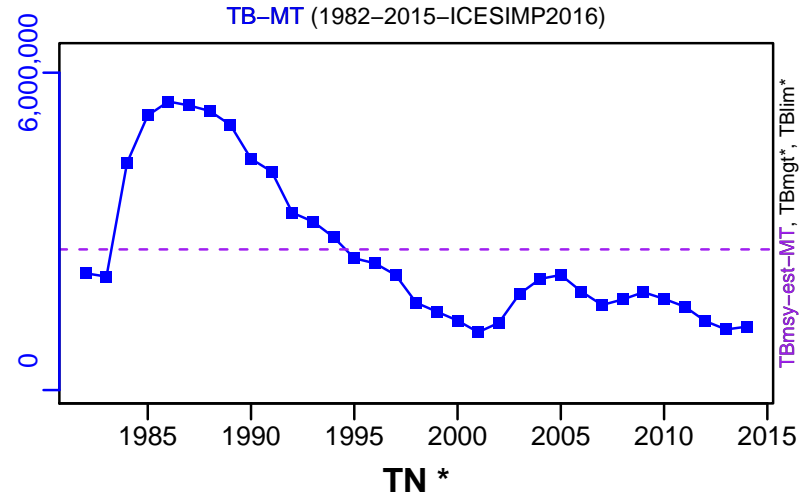
Production (1982–2015–ICESIMP2016)



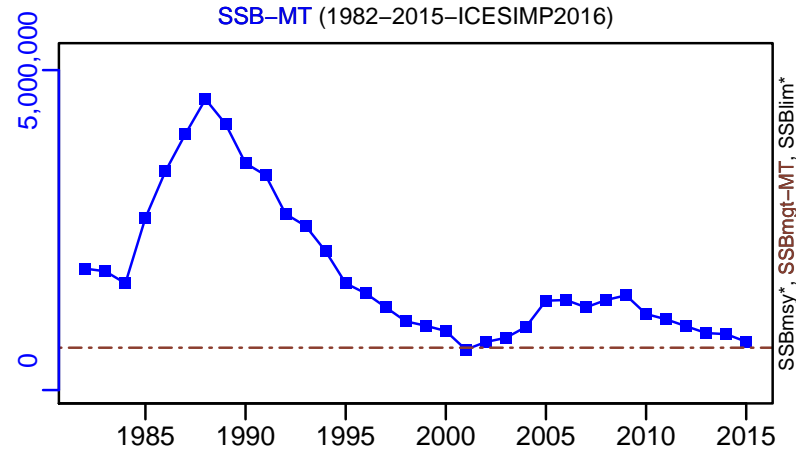
◆ Start Year ◆ End Year * No Data

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

TB-MT (1982-2015-ICESIMP2016)



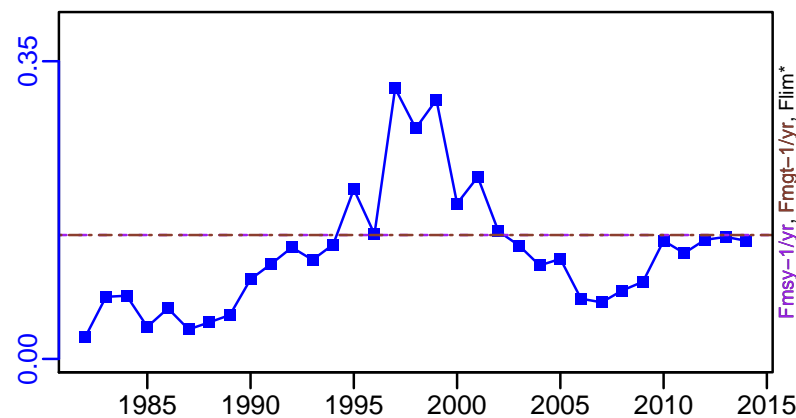
SSB-MT (1982-2015-ICESIMP2016)



TN *

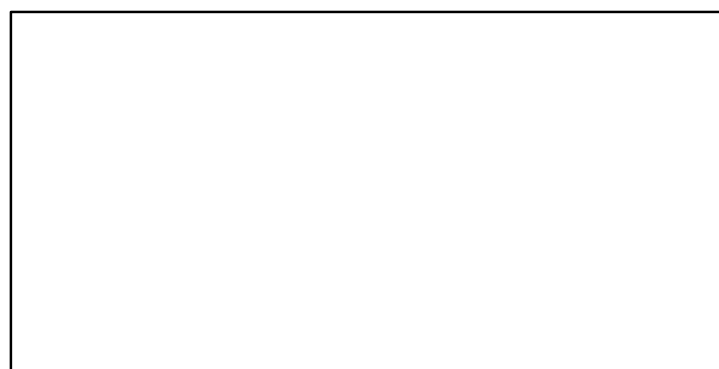
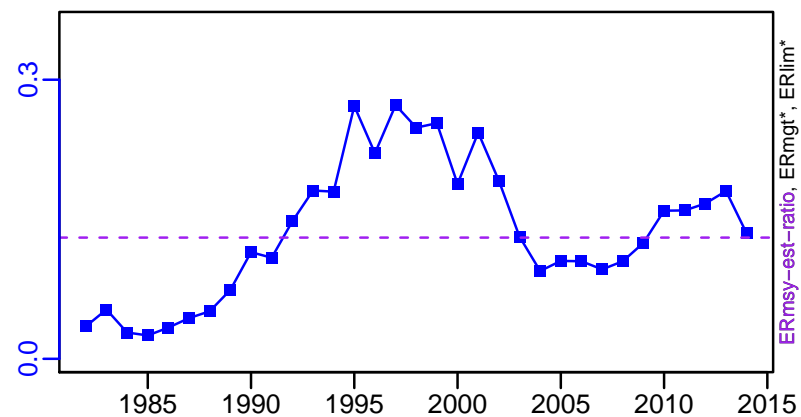


F-1/yr (1982-2015-ICESIMP2016)

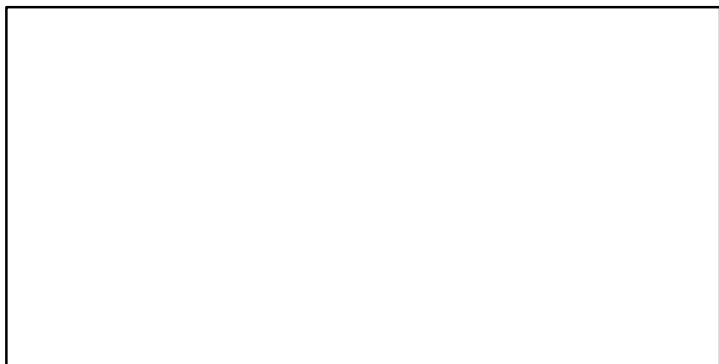


Recruits*

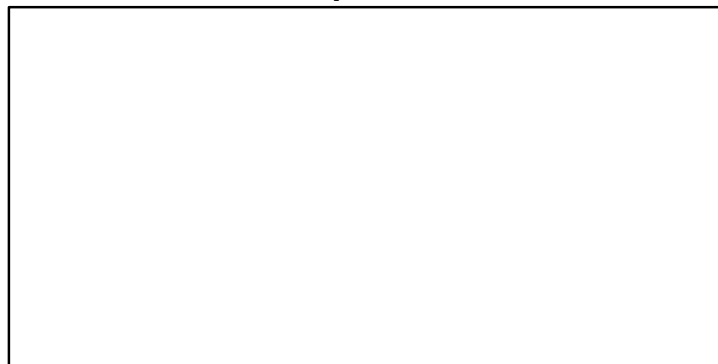
ER-calc-ratio (1982-2015-ICESIMP2016)



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



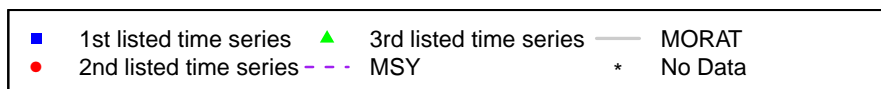
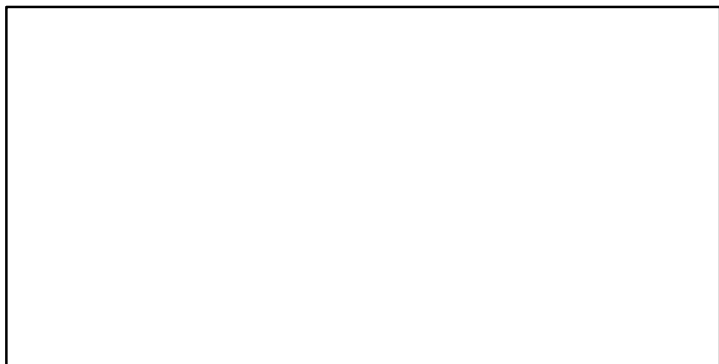
survB*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGWIDE-HMACKIIIa-IVbc-VIId-1982-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Horse mackerel Portugese Waters -East [HMACKIXa]

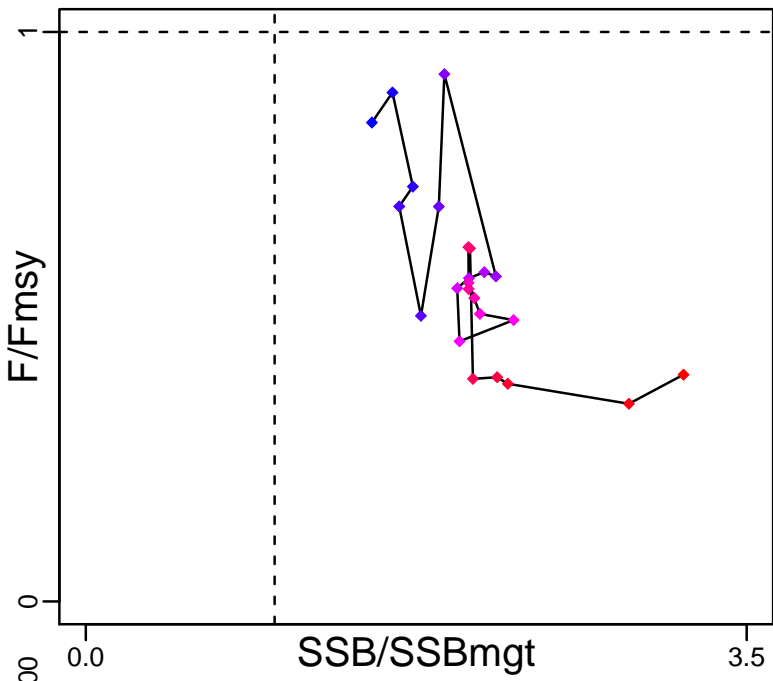
Metadata	
Scientific Name	Trachurus trachurus
Current Assess ID	WGHANSA-HMACKIXa-1992-2016-ICESIMP2016
Area	Portugese Waters -East
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2015	326,950
Fmsy	Fmsy-1/yr	2016	0.11
ERmsy	ERmsy-est-ratio	2015	0.19
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	181,000
Fmgt	Fmgt-1/yr	2016	0.11
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	93,347
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	103,000
Flim	Flim-1/yr	2016	0.19
ERlim	-	-	-

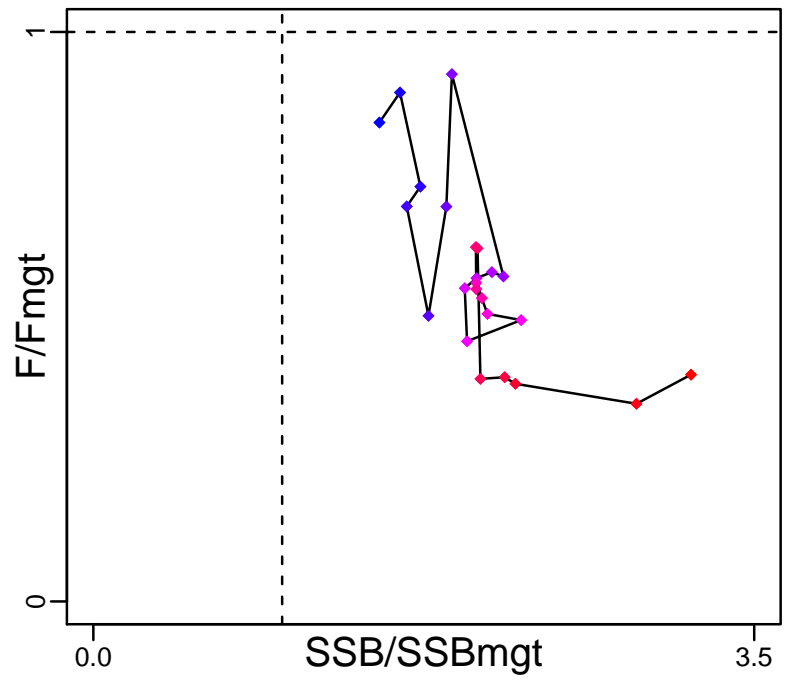
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	622,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	4.06×10^9	-	0
F	F-1/yr	2016	0	-	2 to 10
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	32,700		
TL	TL-MT	2016	32,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2015	1.62		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.4		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	3.43		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.4		
ER/ERmgt	-	-	-		

Horse mackerel Portuguese Waters –East [HMACKIXa]

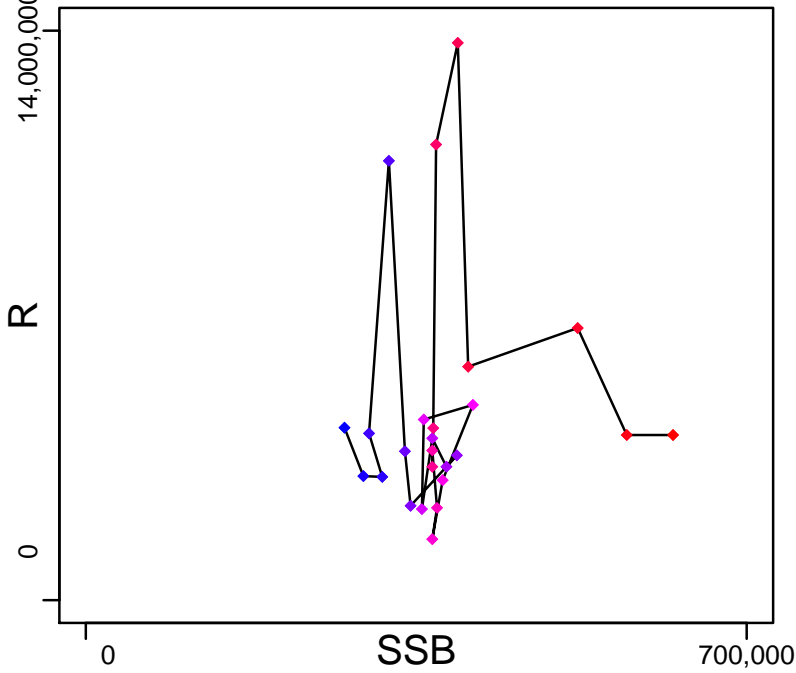
Kobe MSYpref (1992–2016–ICESIMP2016)



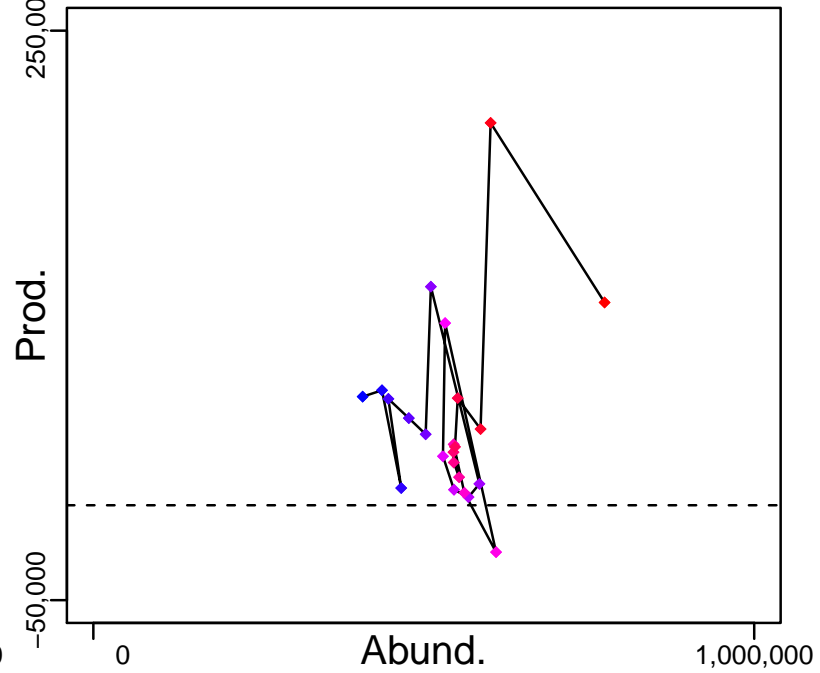
Kobe MGTpref (1992–2016–ICESIMP2016)



Spawner Recruit (1992–2016–ICESIMP2016)



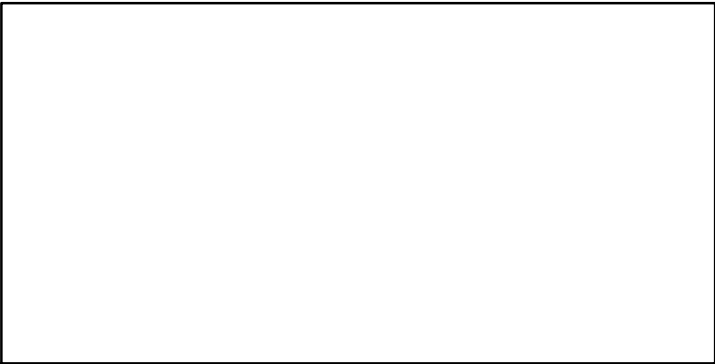
Production (1992–2016–ICESIMP2016)



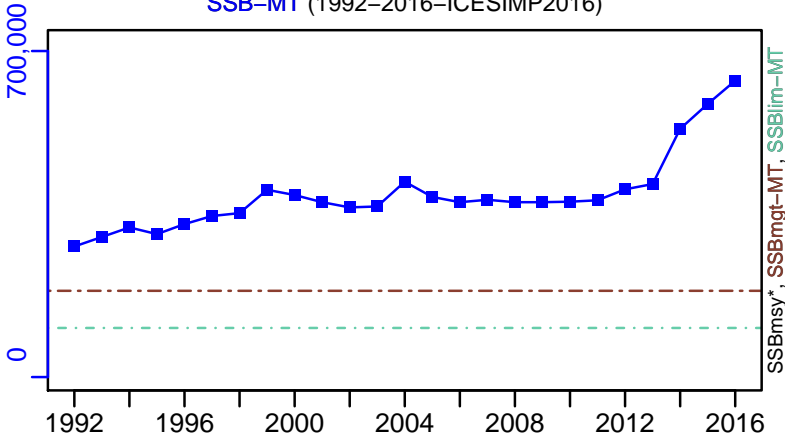
◆ Start Year ◆ End Year * No Data

Horse mackerel Portuguese Waters –East [HMACKIXa]

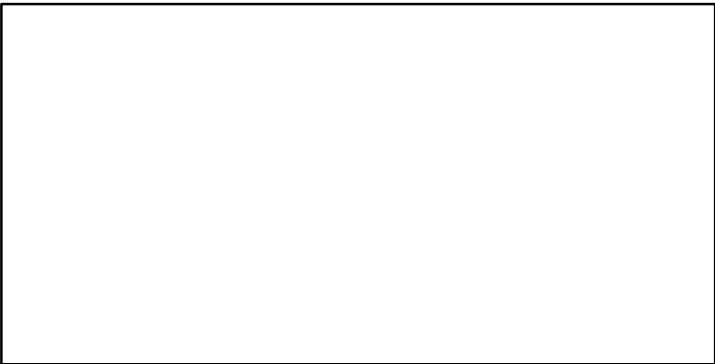
TB*



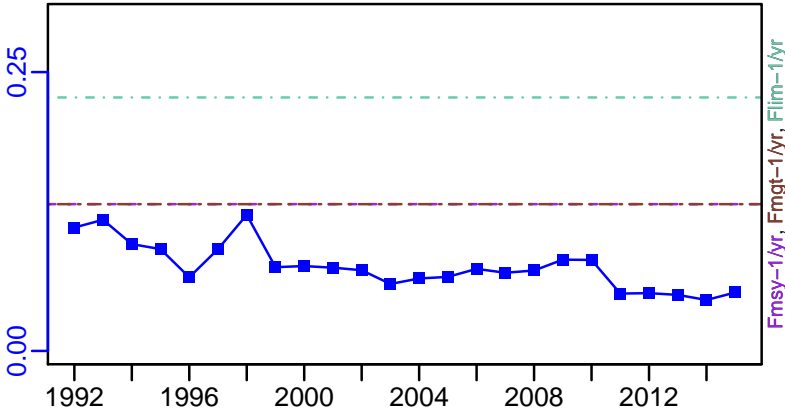
SSB-MT (1992–2016–ICESIMP2016)



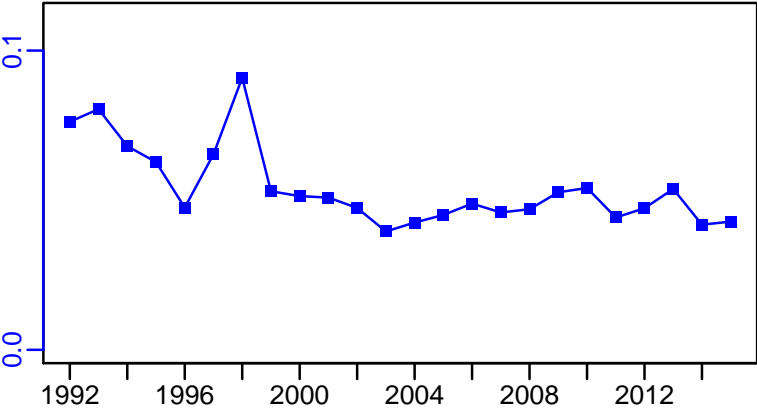
TN *



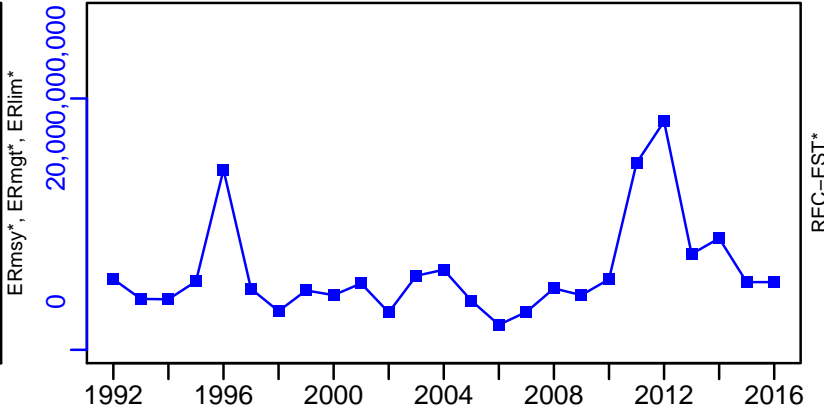
F-1/yr (1992–2016–ICESIMP2016)



ER-calc-ratio (1992–2016–ICESIMP2016)

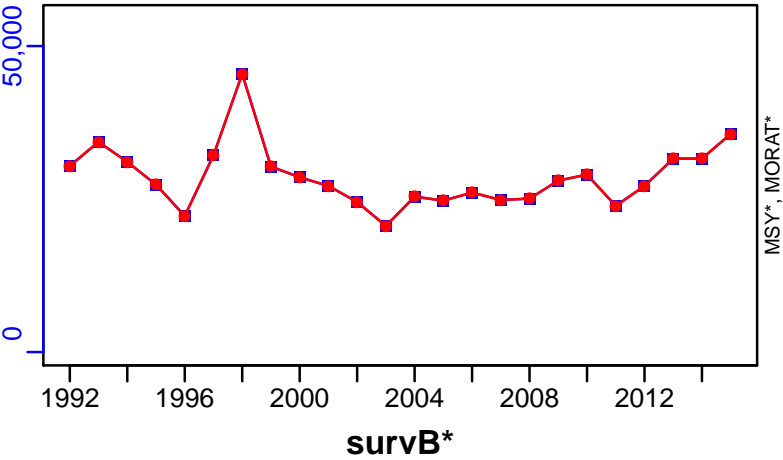


R-E00 (1992–2016–ICESIMP2016)



Horse mackerel Portuguese Waters –East [HMACKIXa]

TC–MT, TL–MT, RecC* (1992–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Ling Iceland Grounds [LINGVa]

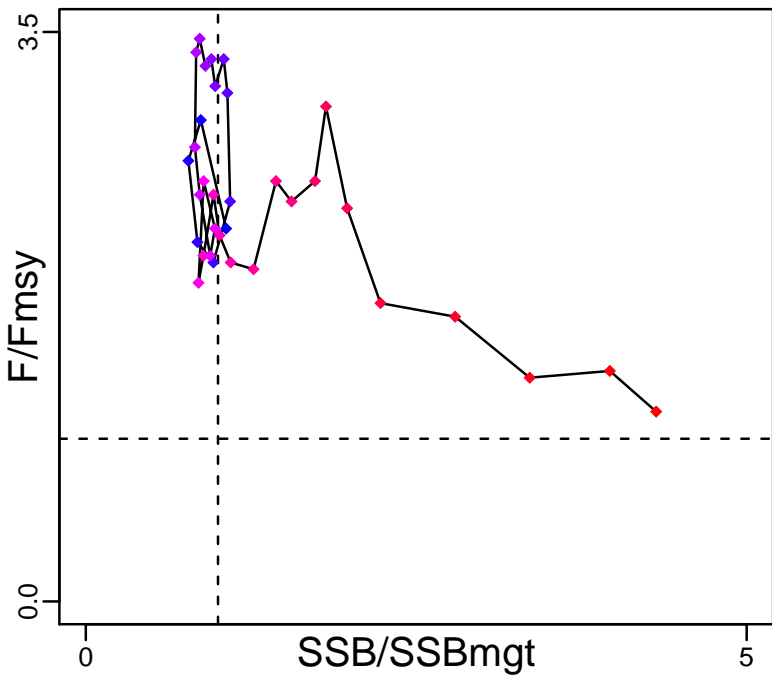
Metadata	
Scientific Name	Molva molva
Current Assess ID	WGDEEP-LINGVa-1982-2016-ICESIMP2016
Area	Iceland Grounds
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	166,235
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.24
ERmsy	ERmsy-est-ratio	2015	0.15
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	9500
Fmgt	Fmgt-1/yr	2016	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	25,471
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	8600
Flim	-	-	-
ERlim	-	-	-

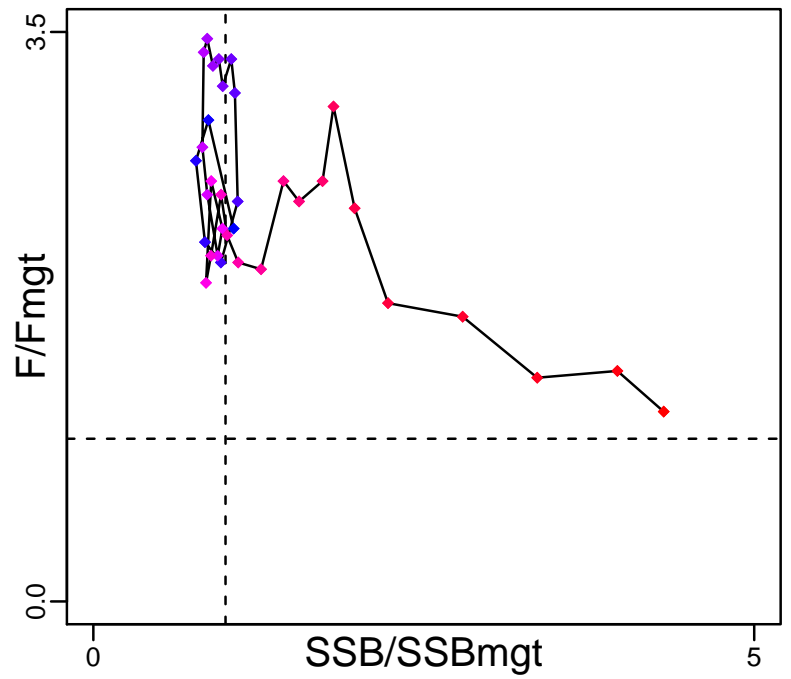
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	56,100	-	-
SSB	SSB-MT	2016	42,600	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,480,000	-	-
F	F-1/yr	2016	0	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	12,900		
TL	TL-MT	2014	11,700		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.56		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.17		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	0.98		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	4.48		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.17		
ER/ERmgt	-	-	-		

Ling Iceland Grounds [LINGVa]

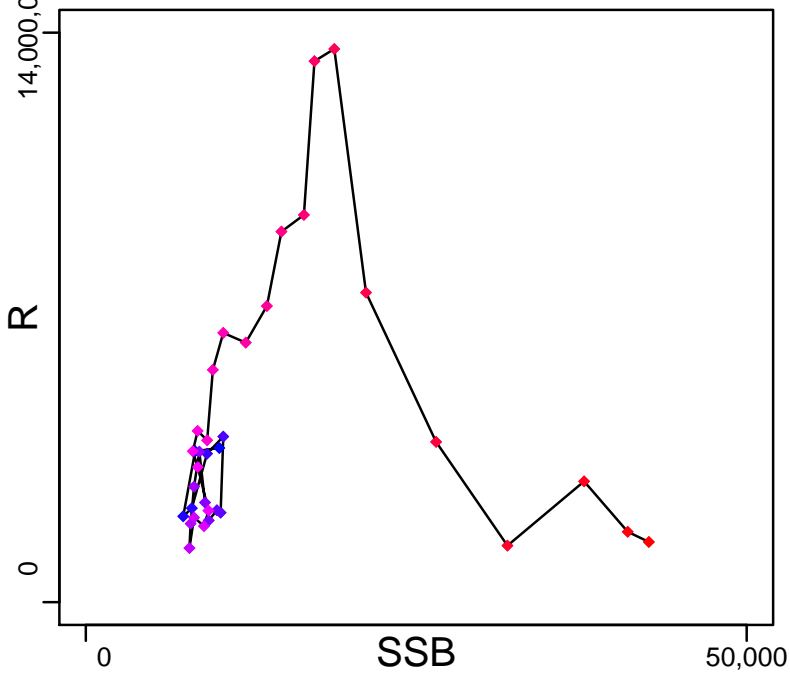
Kobe MSYpref (1982–2016–ICESIMP2016)



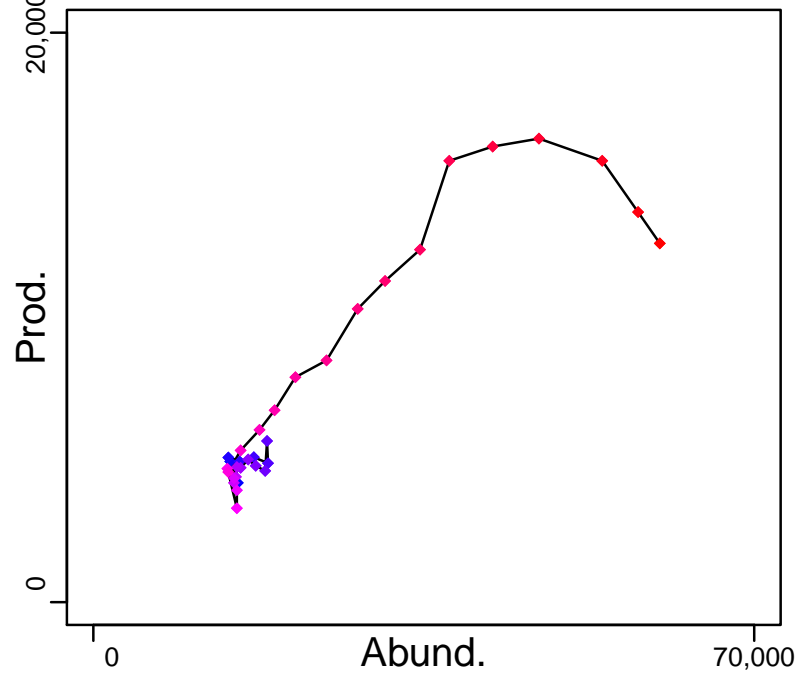
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



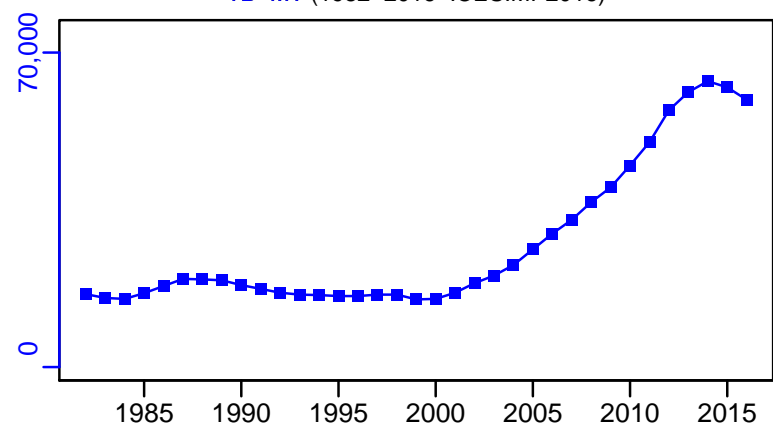
Production (1982–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

Ling Iceland Grounds [LINGVa]

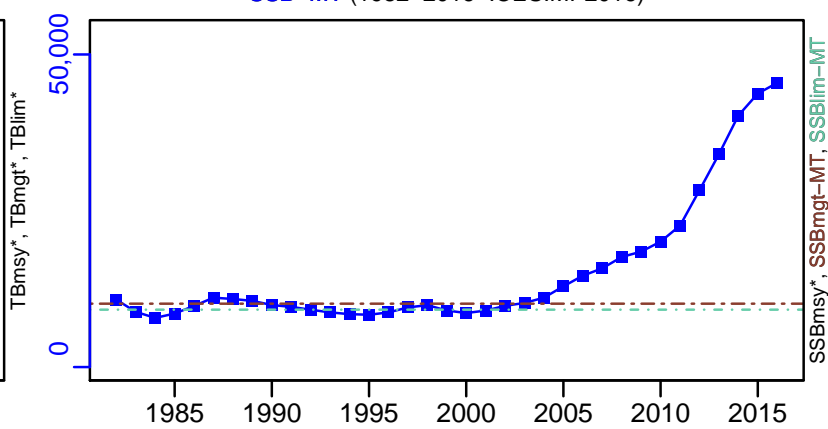
TB-MT (1982–2016–ICESIMP2016)



TN *

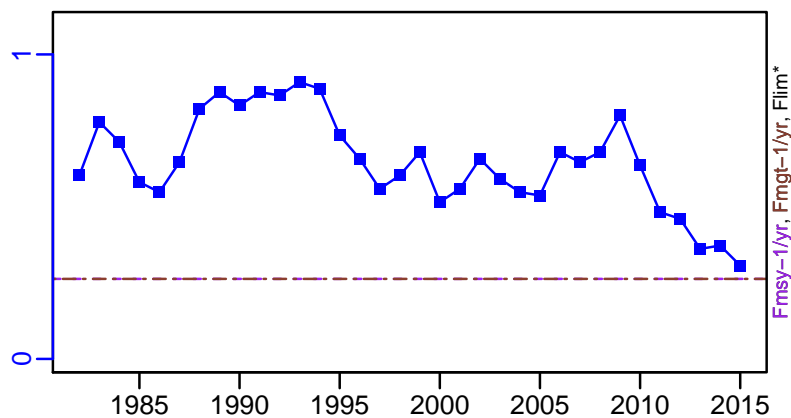


SSB-MT (1982–2016–ICESIMP2016)



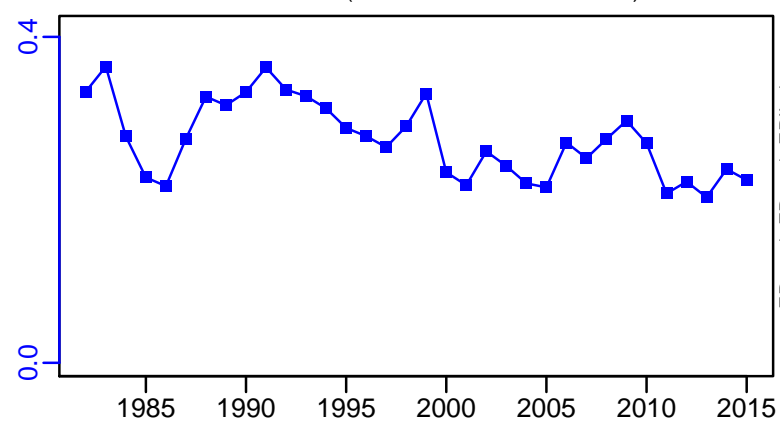
SSBmsy*, SSBmgt-MT, SSBlim-MT

F-1/yr (1982–2016–ICESIMP2016)

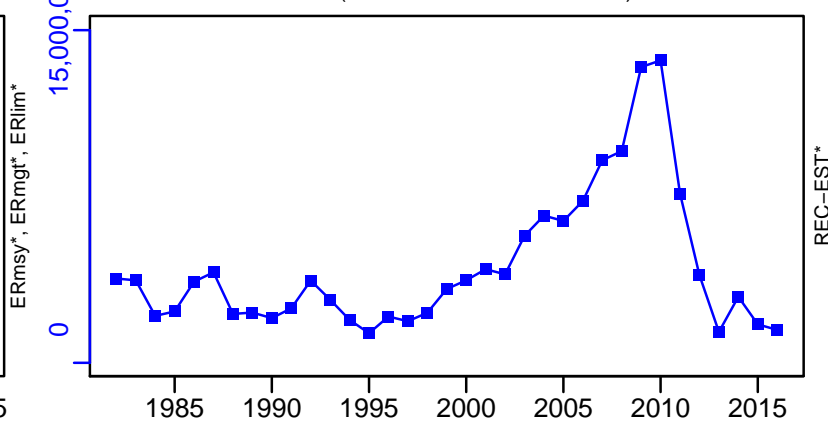


Fmsy-1/yr, Fmgt-1/yr, Flim*

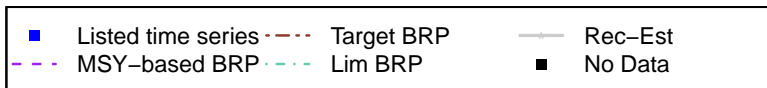
ER-calc-ratio (1982–2016–ICESIMP2016)



R-E00 (1982–2016–ICESIMP2016)

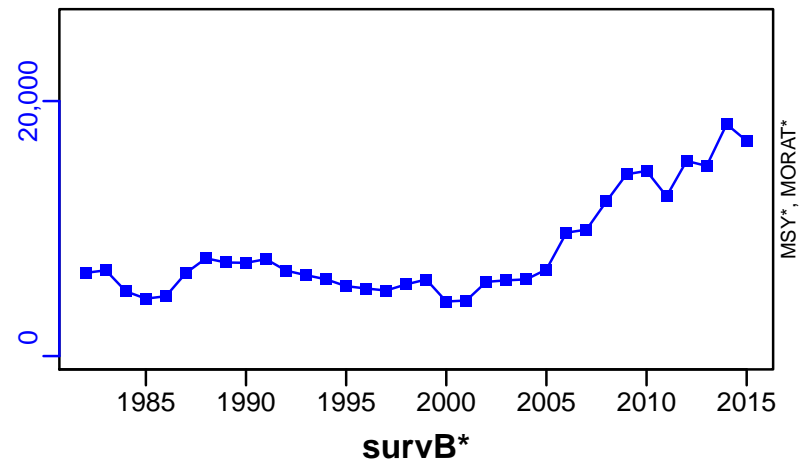


REC-EST*



Ling Iceland Grounds [LINGVa]

TC-MT, TL*, RecC* (1982-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Mackerel ICES Northeast Atlantic [MACKNEICES]

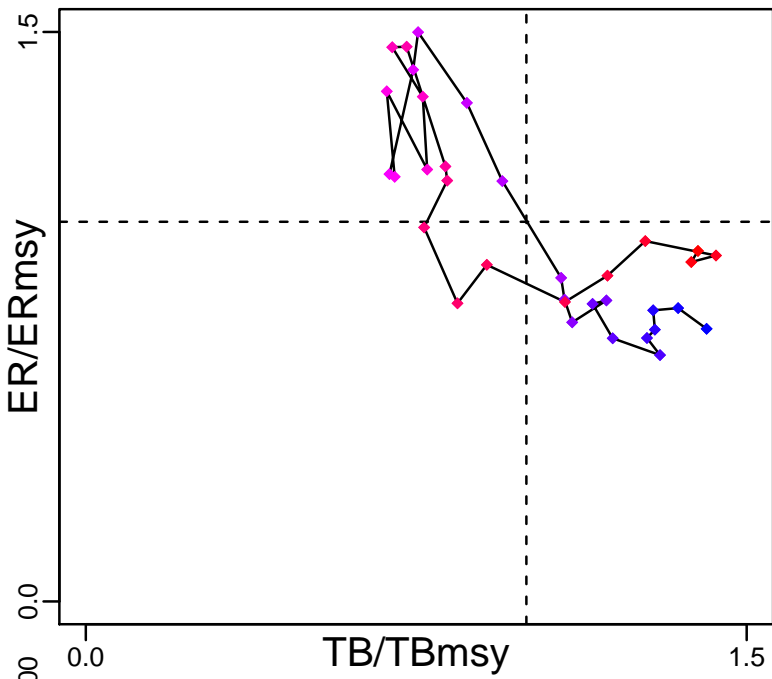
Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	WGWIDE-MACKNEICES-1980-2014-ICESIMP2016
Area	IIa-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2007, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	4,037,320
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2014	0.25
ERmsy	ERmsy-est-ratio	2014	0.18
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2014	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	726,365
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	1,840,000
Flim	Flim-1/yr	2014	0.39
ERlim	-	-	-

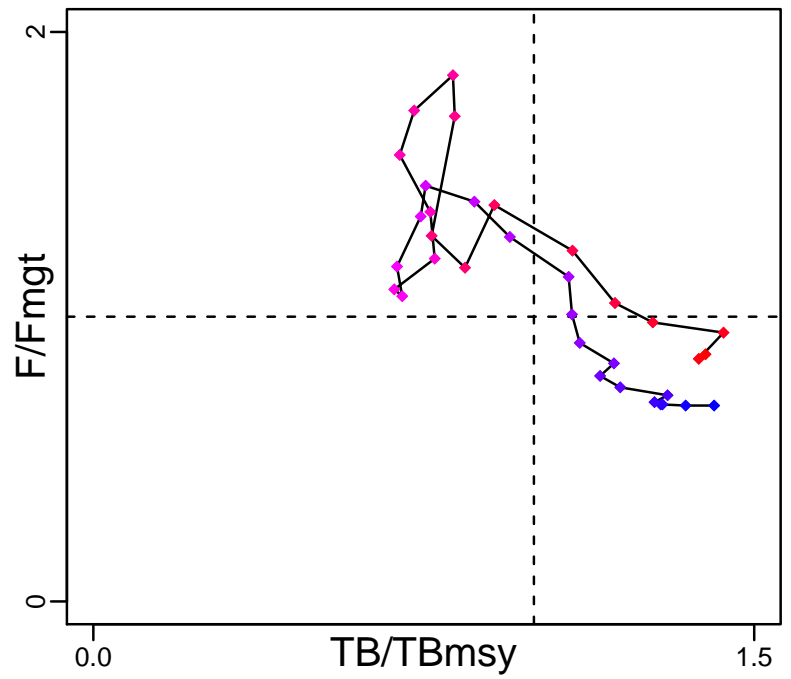
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	5,610,000	-	-
SSB	SSB-MT	2014	4,420,000	-	-
TN	-	-	-	-	-
R	R-E00	2014	4.27×10^9	-	0
F	F-1/yr	2014	0	-	4 to 8
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	932,000		
TL	TL-MT	2014	927,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.39		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	0.87		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2014	0.92		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	0.87		
ER/ERmgt	-	-	-		

Mackerel ICES Northeast Atlantic [MACKNEICES]

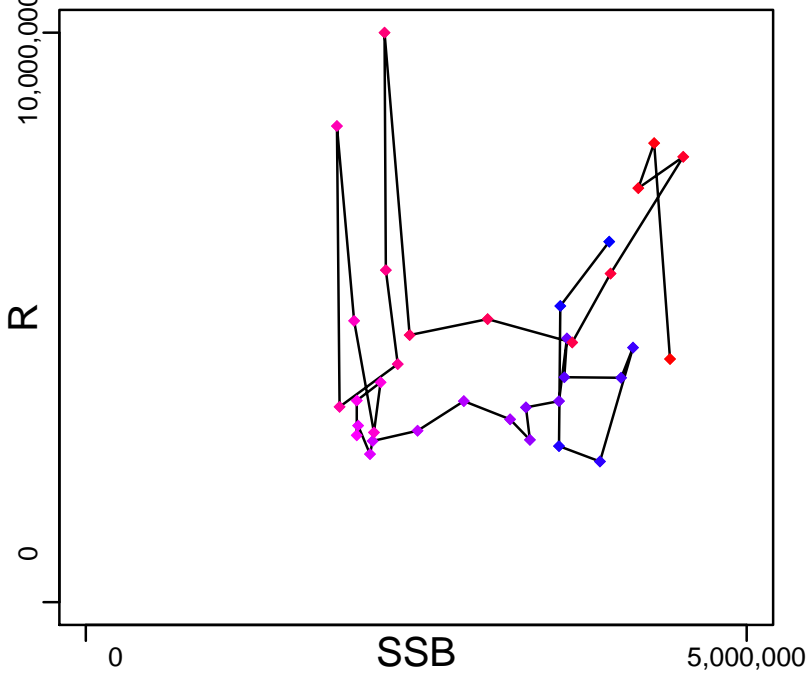
Kobe MSYpref (1980–2014–ICESIMP2016)



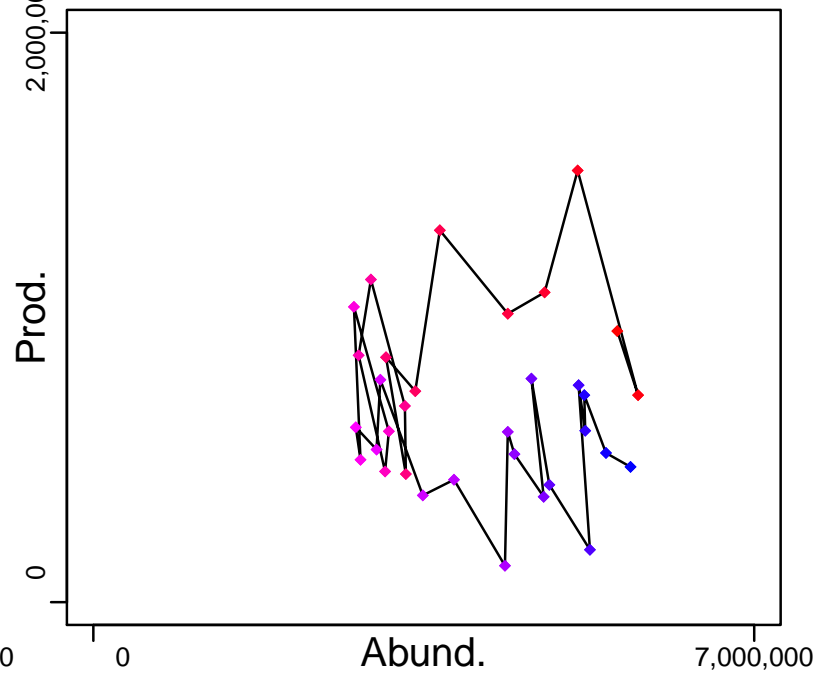
Kobe MGTpref (1980–2014–ICESIMP2016)



Spawner Recruit (1980–2014–ICESIMP2016)



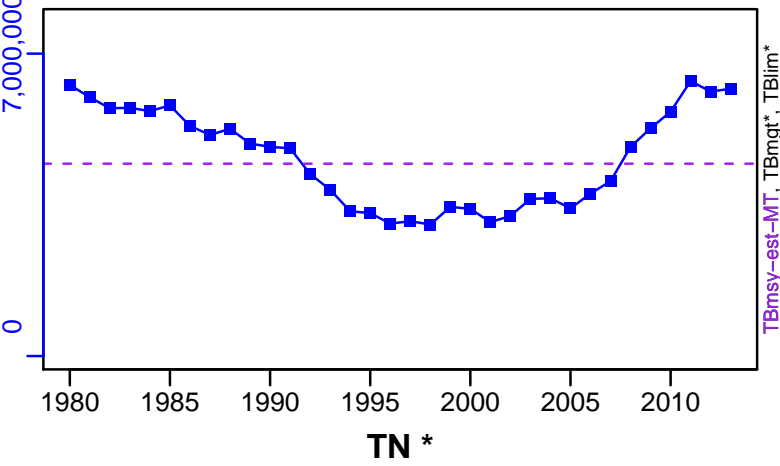
Production (1980–2014–ICESIMP2016)



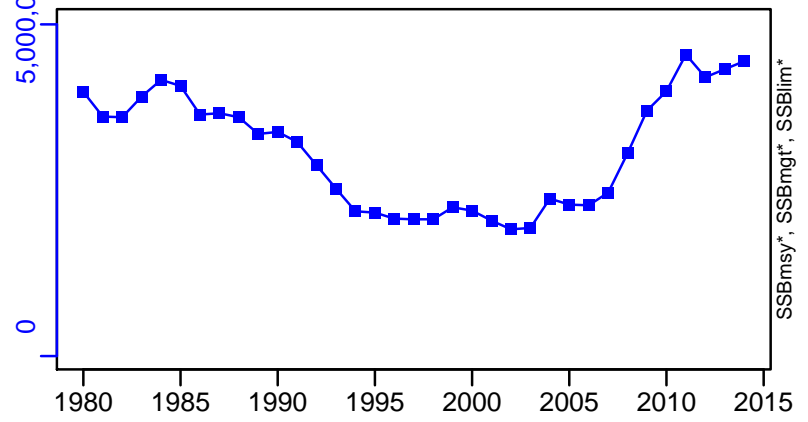
◆ Start Year ◆ End Year * No Data

Mackerel ICES Northeast Atlantic [MACKNEICES]

TB-MT (1980–2014–ICESIMP2016)



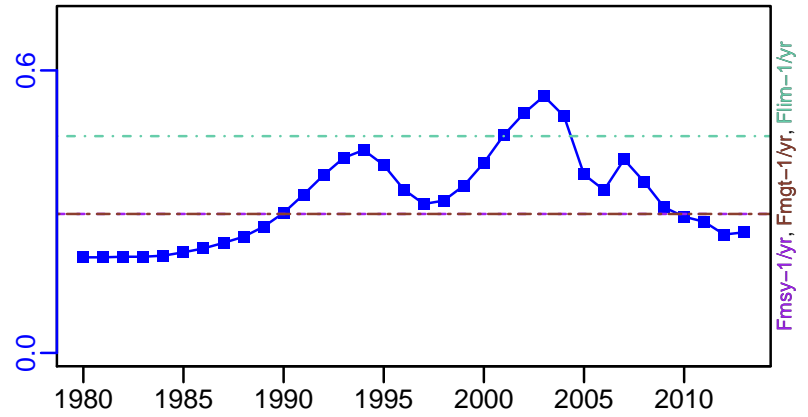
SSB-MT (1980–2014–ICESIMP2016)



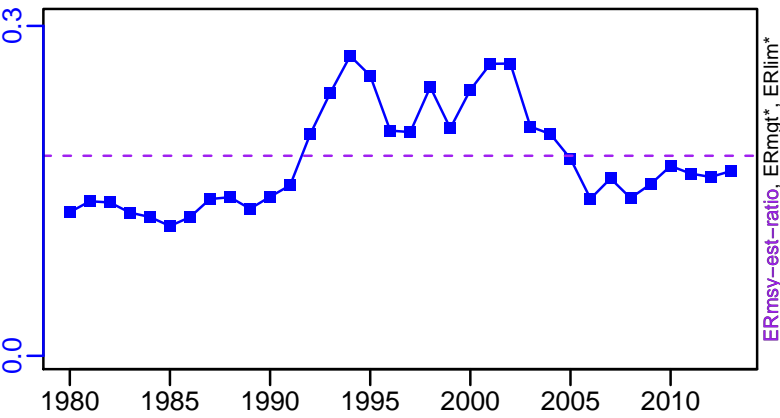
TN *



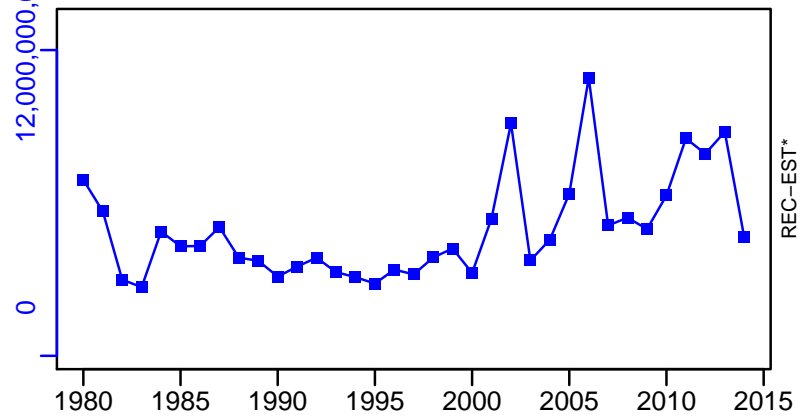
F-1/yr (1980–2014–ICESIMP2016)



ER-calc-ratio (1980–2014–ICESIMP2016)



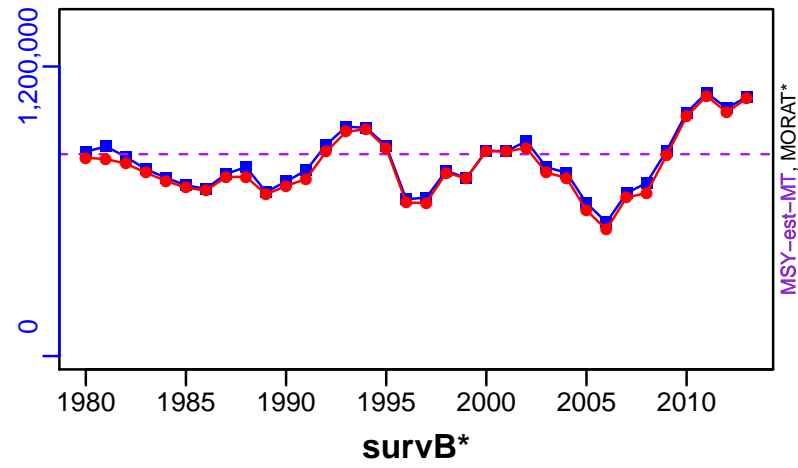
R-E00 (1980–2014–ICESIMP2016)



Mackerel ICES Northeast Atlantic [MACKNEICES]

TC-MT, TL-MT, RecC* (1980–2014–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Megrim ICES VIIIc-IXa [MEG8c9a]

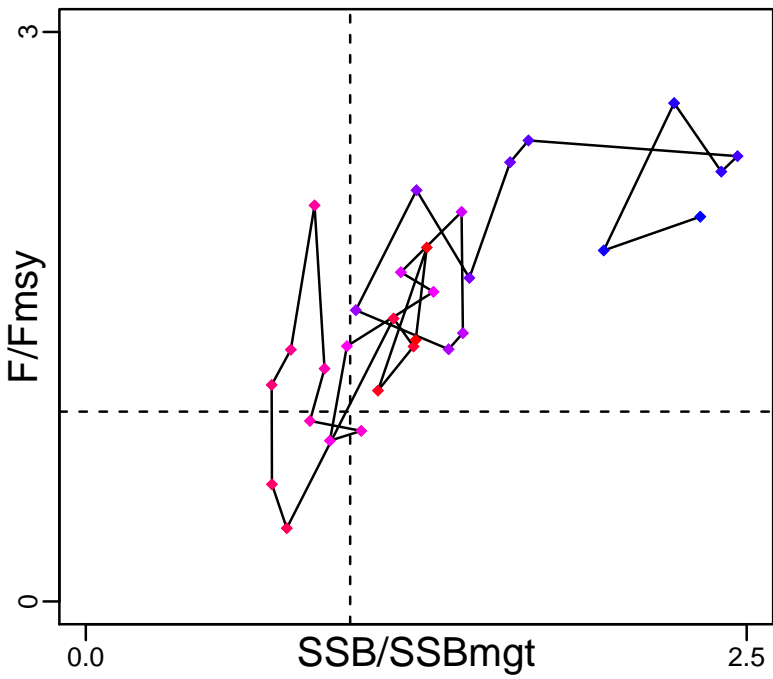
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEG8c9a-1985-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2010, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.19
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	980
Fmgt	Fmgt-1/yr	2016	0.19
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	700
Flim	Flim-1/yr	2016	0.45
ERlim	-	-	-

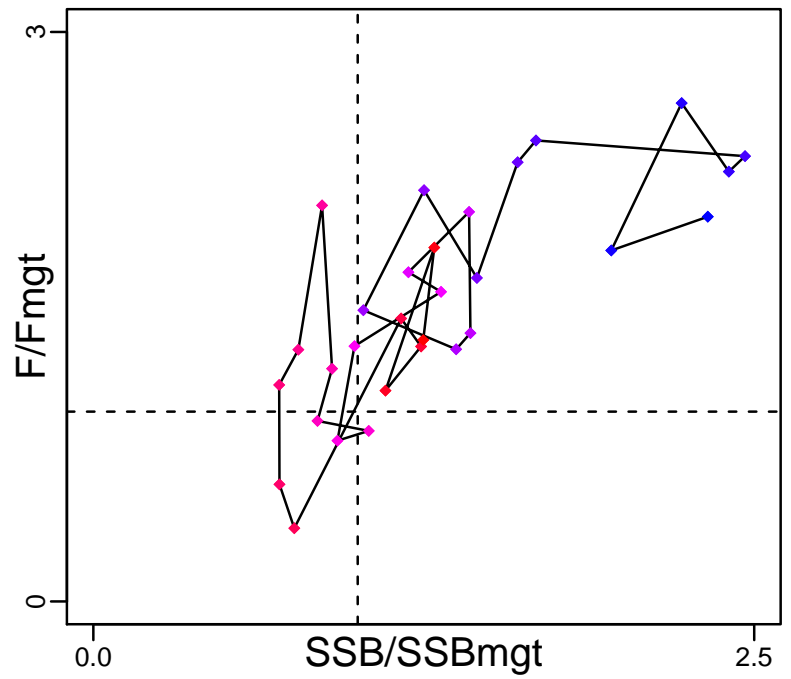
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	1480	-	-
SSB	SSB-MT	2016	1090	-	-
TN	-	-	-	-	-
R	R-E00	2016	3,300,000	-	1
F	F-1/yr	2016	0	-	2 to 4
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	297		
TL	TL-MT	2016	276		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.38		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.11		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.38		
ER/ERMgt	-	-	-		

Megrim ICES VIIIc-IXa [MEG8c9a]

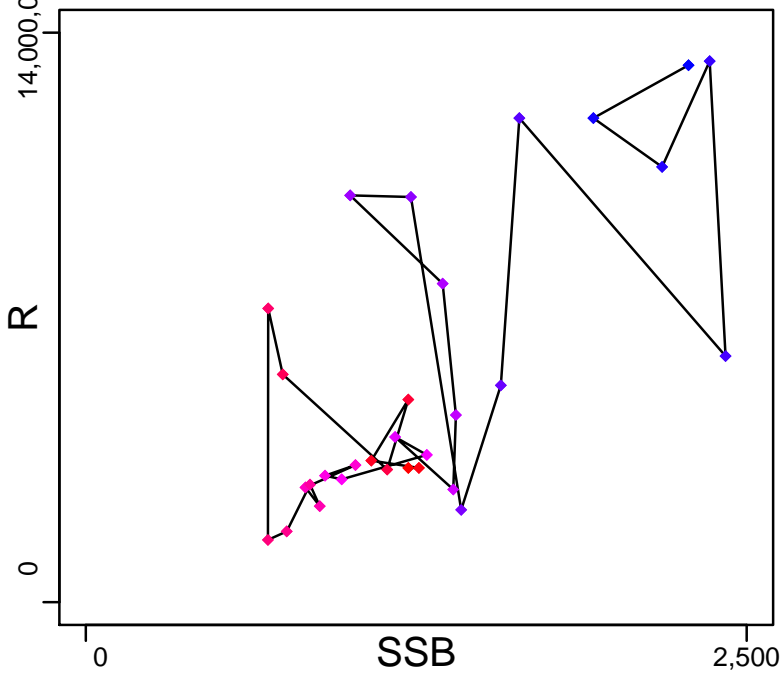
Kobe MSYpref (1985–2016–ICESIMP2016)



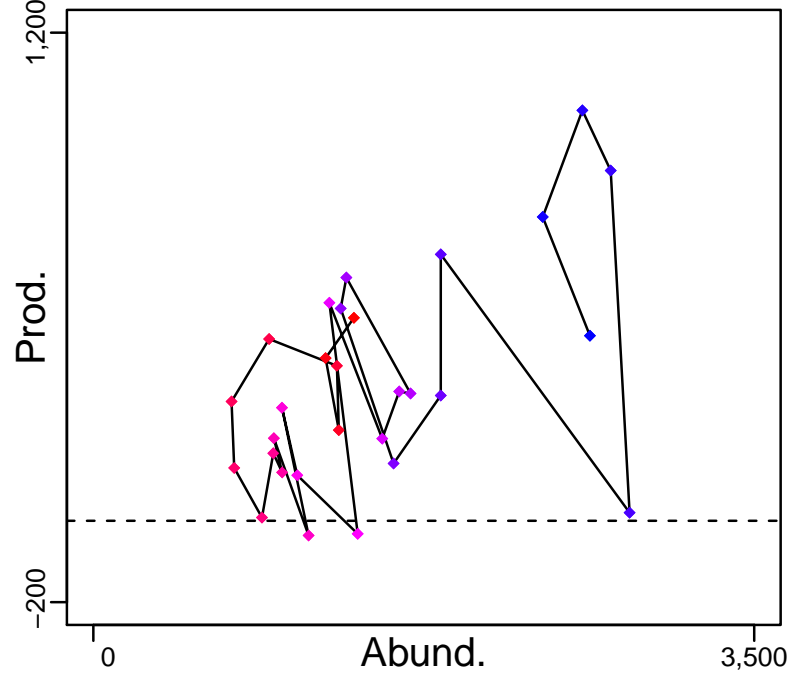
Kobe MGTpref (1985–2016–ICESIMP2016)



Spawner Recruit (1985–2016–ICESIMP2016)



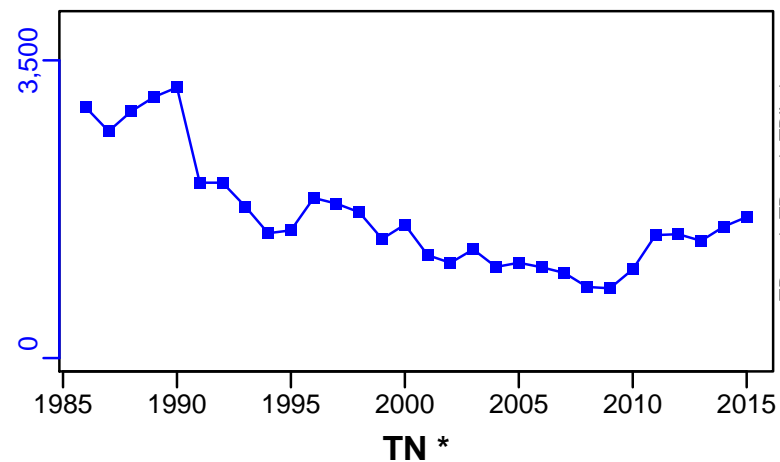
Production (1985–2016–ICESIMP2016)



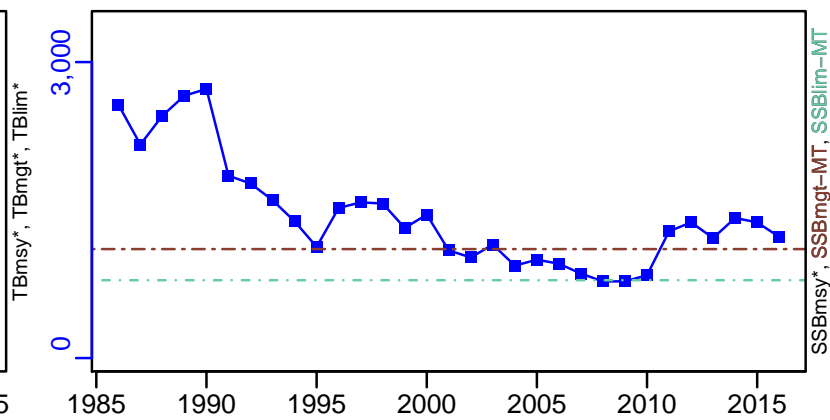
◆ Start Year ◆ End Year * No Data

Megrim ICES VIIIc-IXa [MEG8c9a]

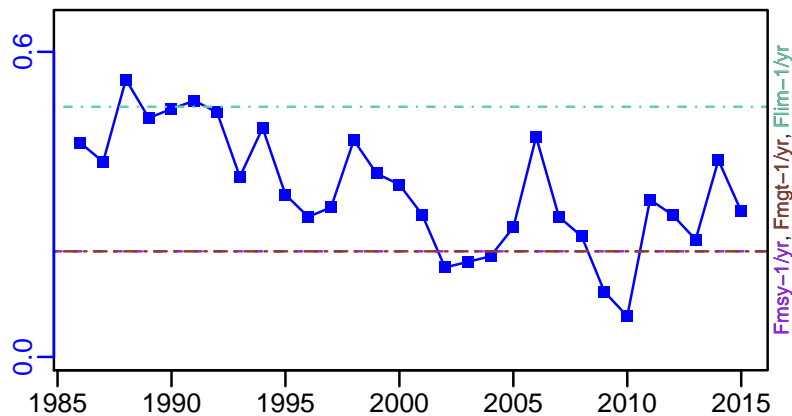
TB-MT (1985–2016–ICESIMP2016)



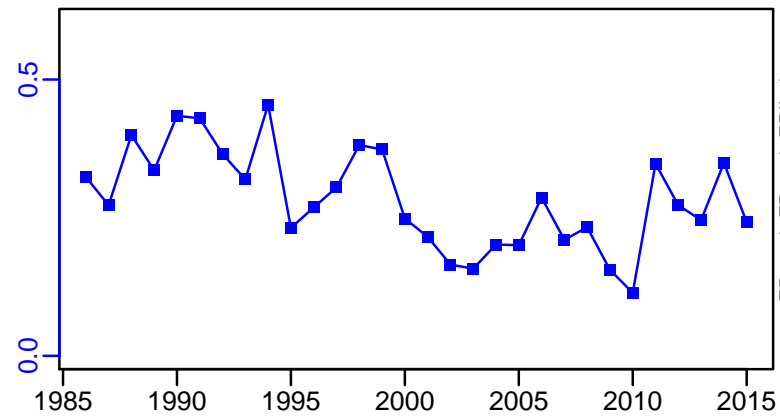
SSB-MT (1985–2016–ICESIMP2016)



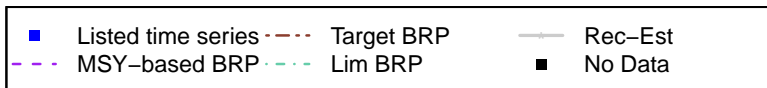
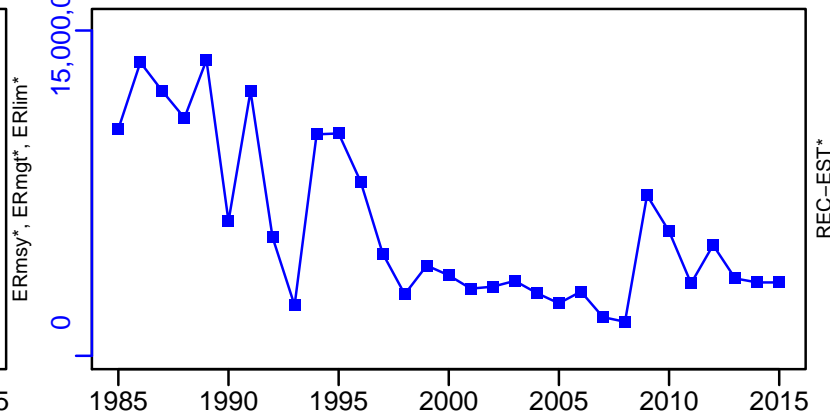
F-1/yr (1985–2016–ICESIMP2016)



ER-calc-ratio (1985–2016–ICESIMP2016)

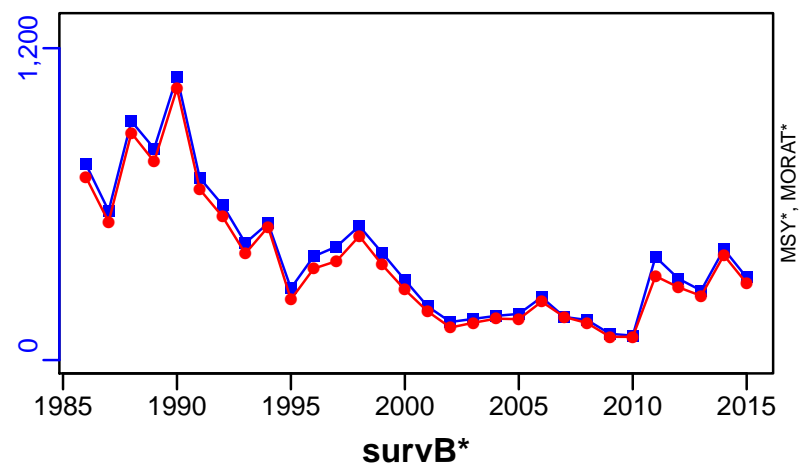


R-E00 (1985–2016–ICESIMP2016)



Megrim ICES VIIIc-IXa [MEG8c9a]

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



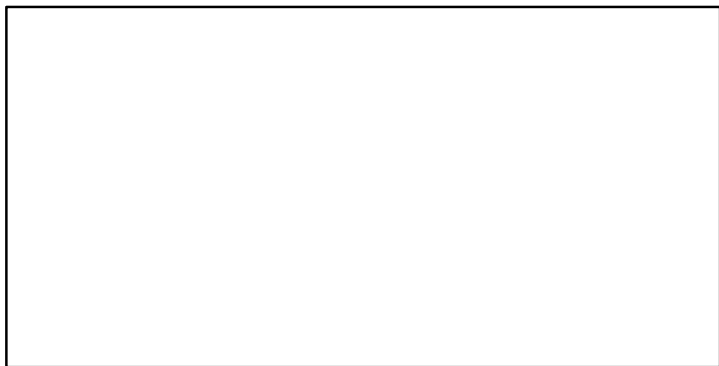
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

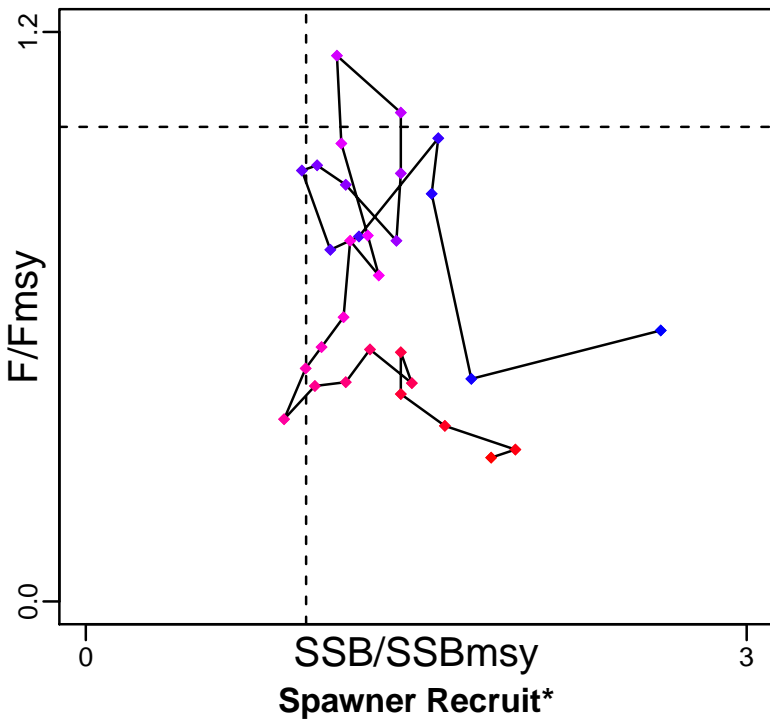
Metadata	
Scientific Name	Lepidorhombus spp.
Current Assess ID	WGCSE-MEGSPPIVa-VIa-1985-2015-ICESIMP2016
Area	IVa and VIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2012, 2013, 2015

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

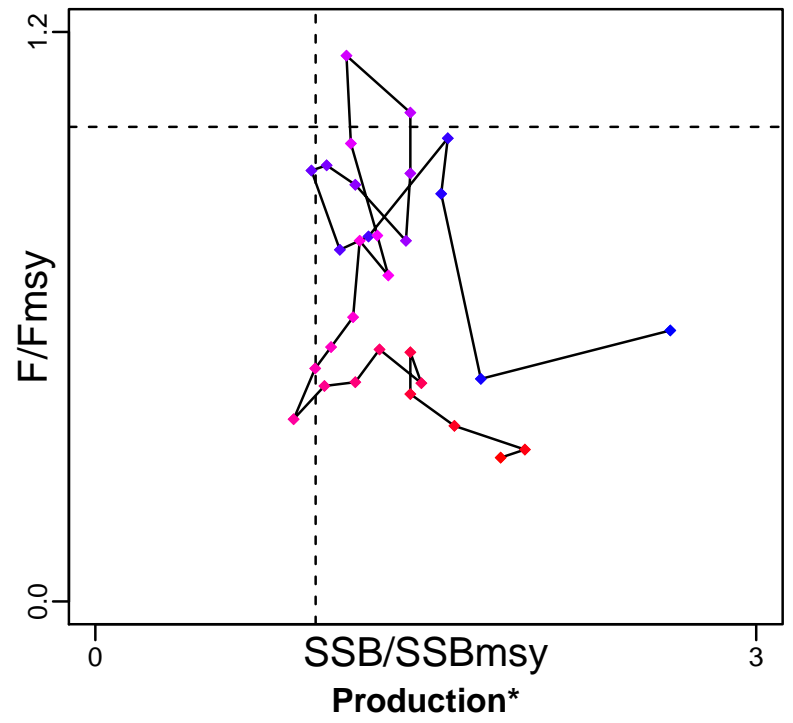
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

Kobe MSYpref (1985–2015–ICESIMP2016)



Kobe MGTpref (1985–2015–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

TB*



SSB*



TN *



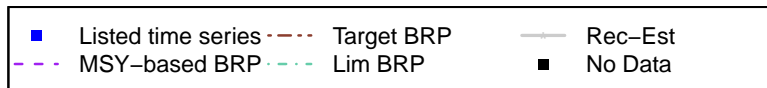
F*



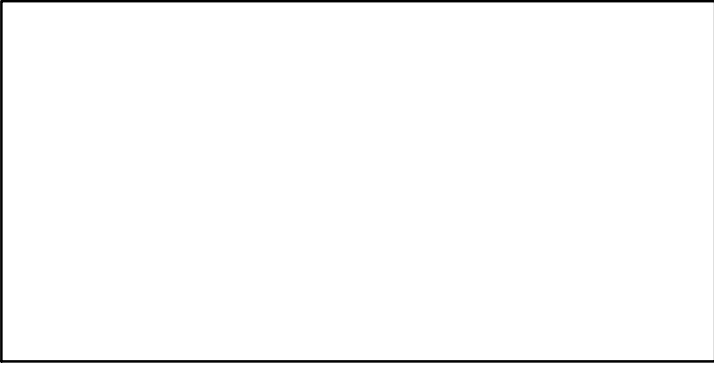
ER*



Recruits*



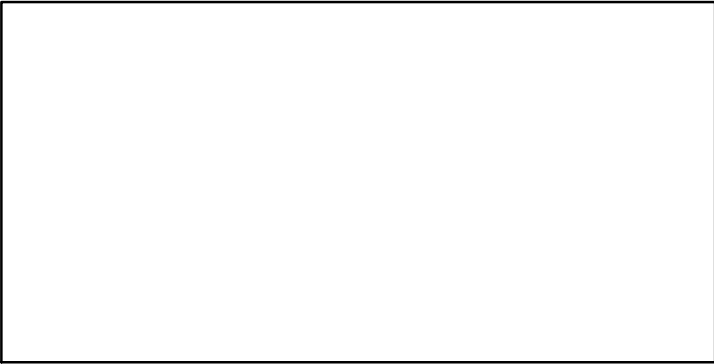
TC*, TL*, RecC*



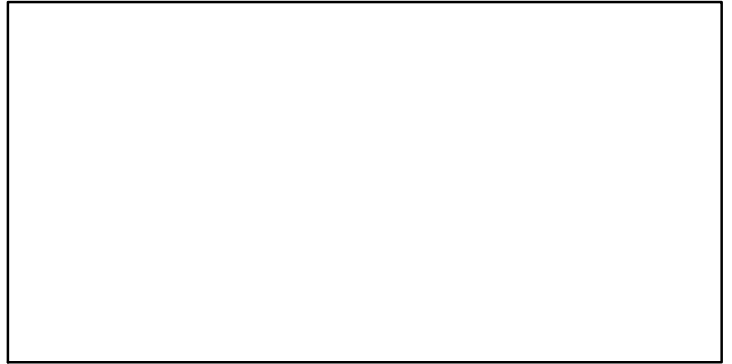
TAC*, Cpair*, Cadv*



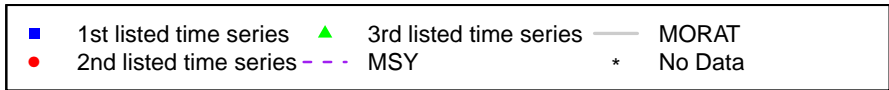
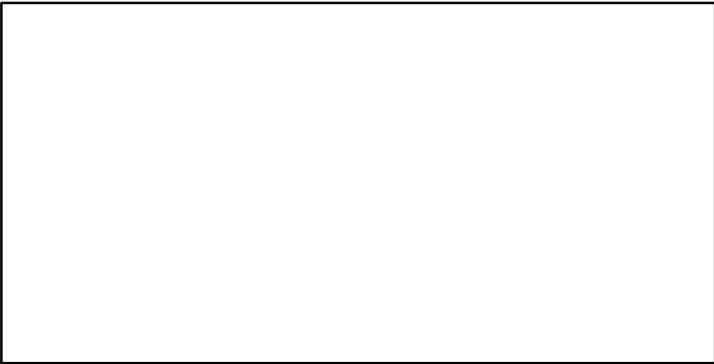
survB*



CPUE*



EFFORT*



Megrim VII-VIIIabd [MEGVII-VIIIabd]

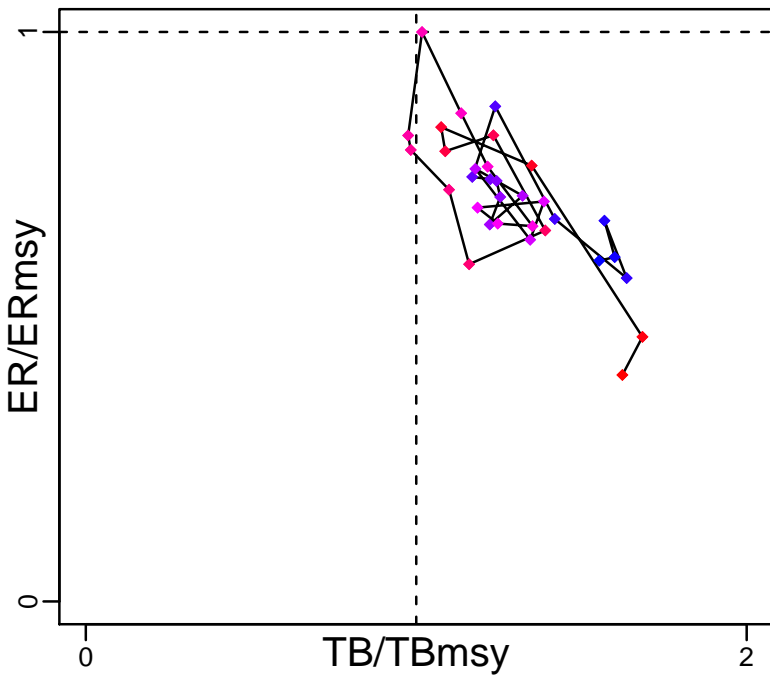
Metadata	
Scientific Name	Lepidorhombus whiffiagonis
Current Assess ID	WGBIE-MEGVII-VIIIabd-1983-2016-ICESIMP2016
Area	VII and VIIIabd
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	57,550
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.19
ERmsy	ERmsy-est-ratio	2016	0.35
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	41,800
Fmgt	Fmgt-1/yr	2016	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	20,250
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	37,100
Flim	Flim-1/yr	2016	0.53
ERlim	-	-	-

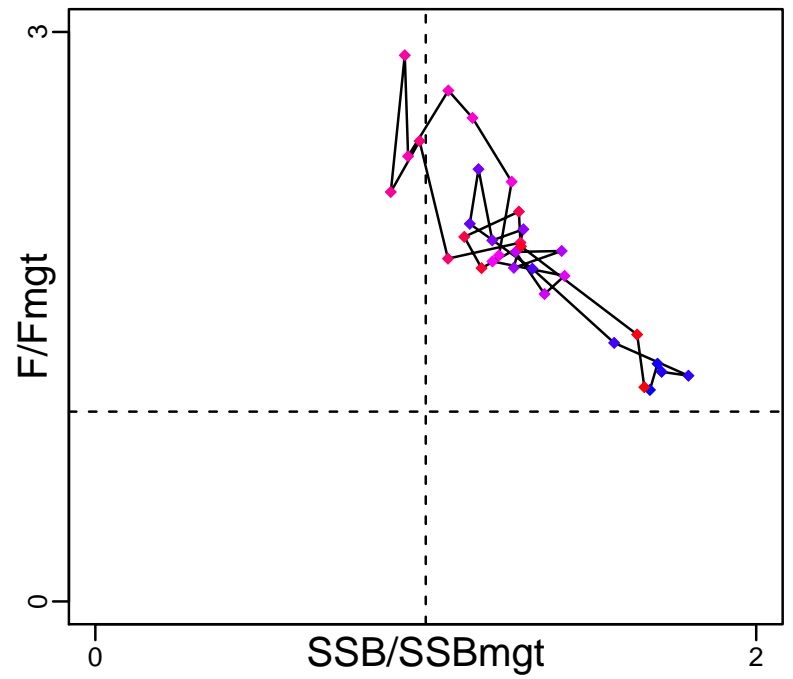
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.62		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.4		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim VII–VIIIabd [MEGVII–VIIIabd]

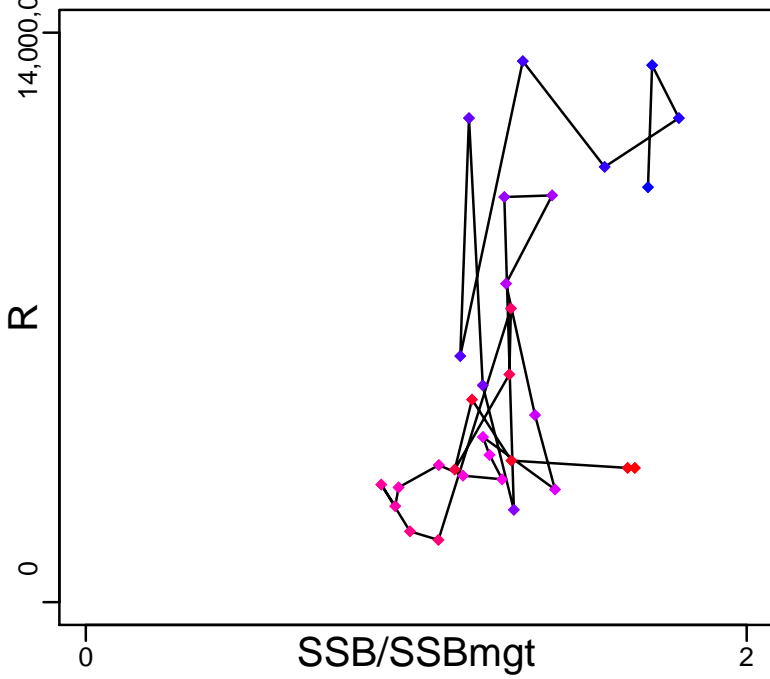
Kobe MSYpref (1983–2016–ICESIMP2016)



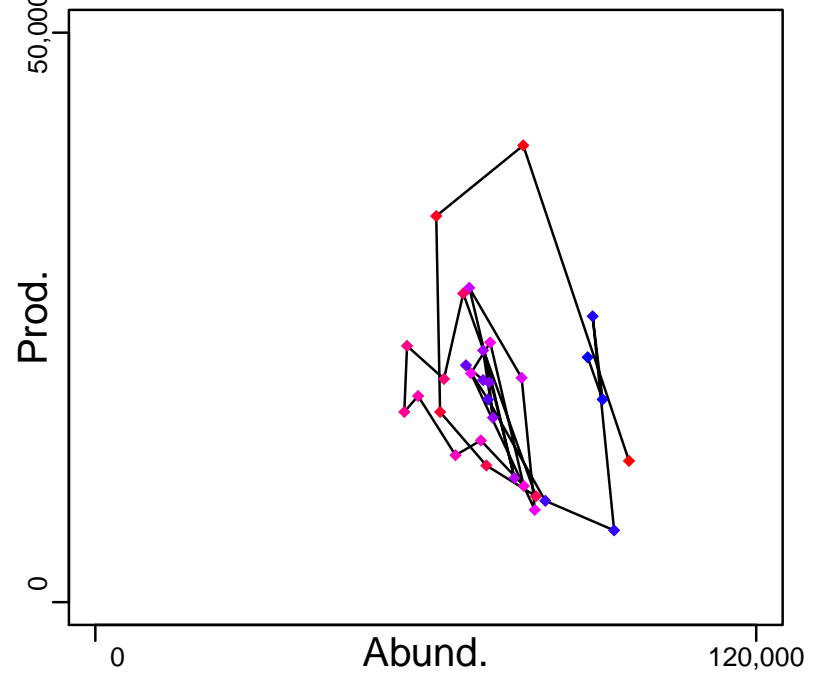
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)



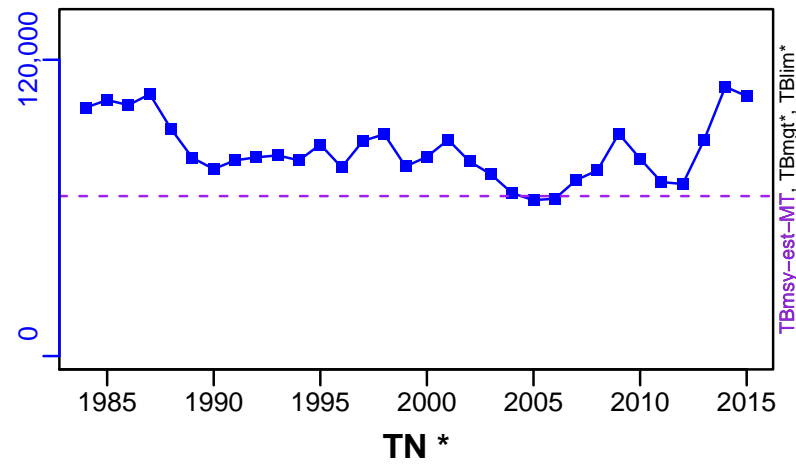
Production (1983–2016–ICESIMP2016)



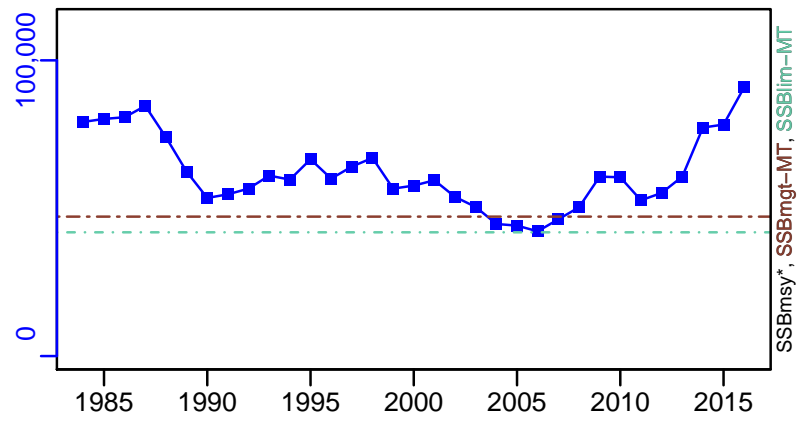
◆ Start Year ◆ End Year * No Data

Megrim VII–VIIIabd [MEGVII–VIIIabd]

TB–MT (1983–2016–ICESIMP2016)



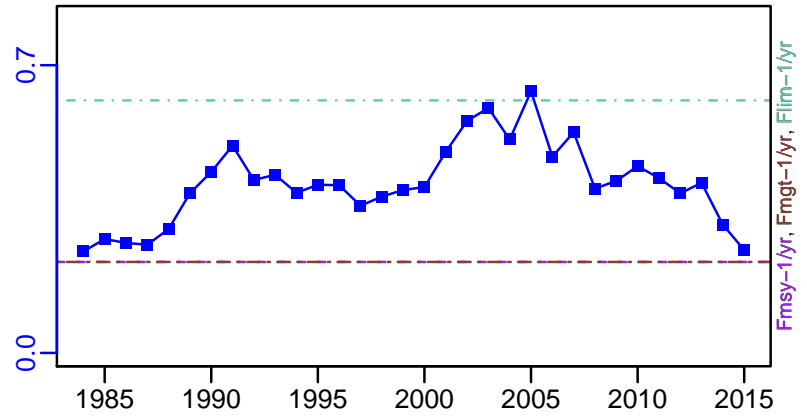
SSB–MT (1983–2016–ICESIMP2016)



TN*

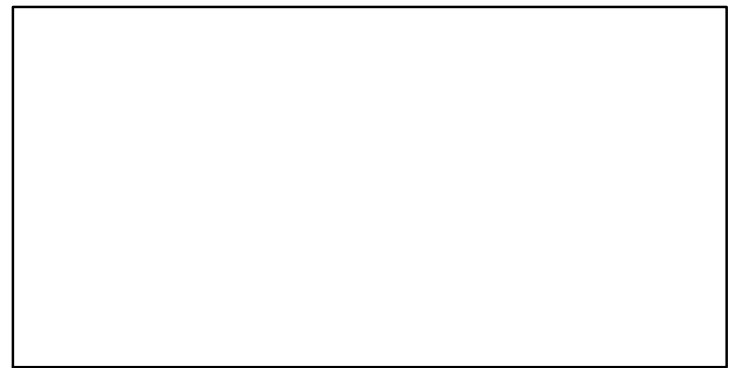
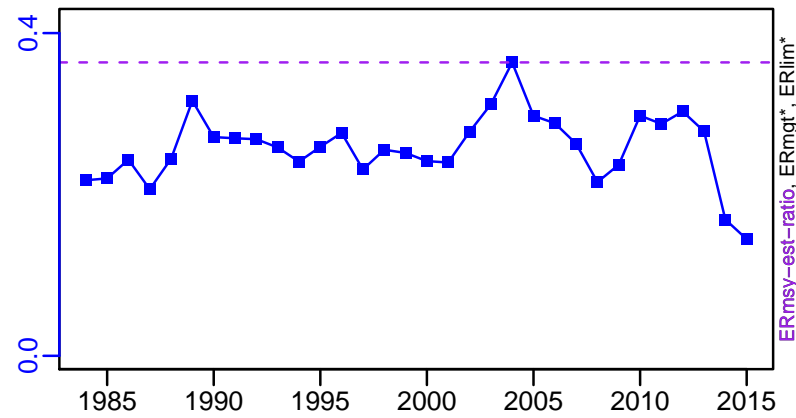


F–1/yr (1983–2016–ICESIMP2016)



Recruits*

ER–calc–ratio (1983–2016–ICESIMP2016)



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Norway lobster Noup (FU 10) [NEPHFU10]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU10-1981-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	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

TB*



SSB*



TN *



F*



ER*

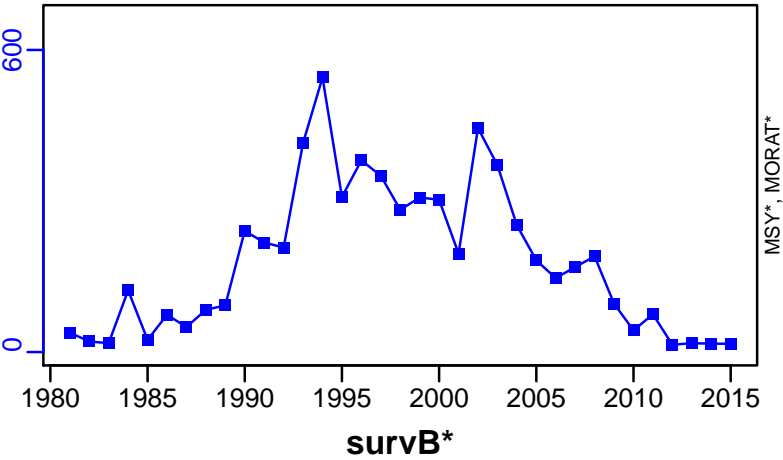


Recruits*



Norway lobster Noup (FU 10) [NEPHFU10]

TL-MT, TC*, RecC* (1981-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Norway lobster North Minch (FU 11) [NEPHFU11]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU11-1981-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.11
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	0.11
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	2015	0	-	-
TC	-	-	-		
TL	TL-MT	2015	3240		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.88		
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*



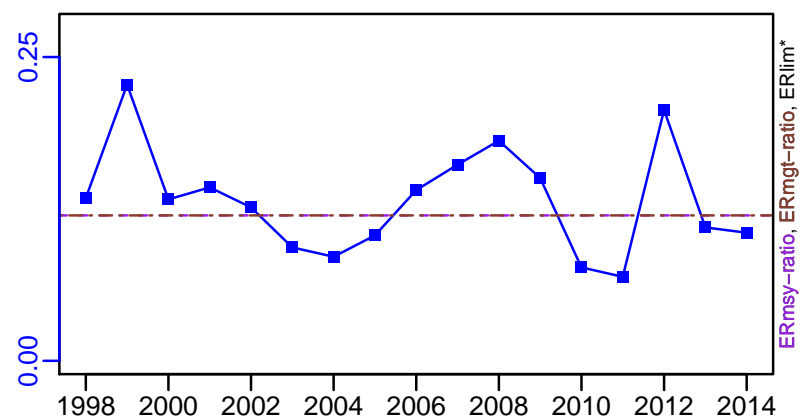
TN *



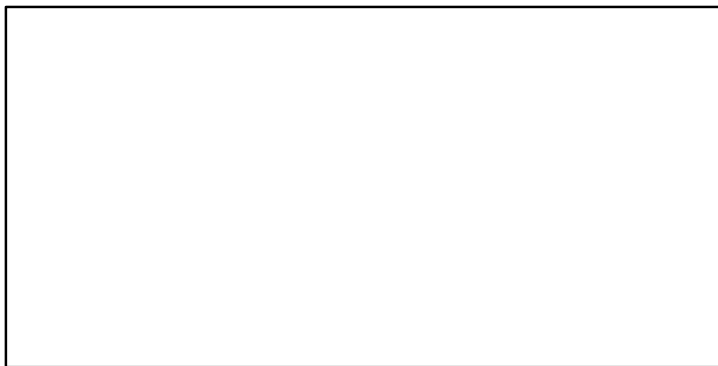
F*



ER-ratio (1981–2015–ICESIMP2016)



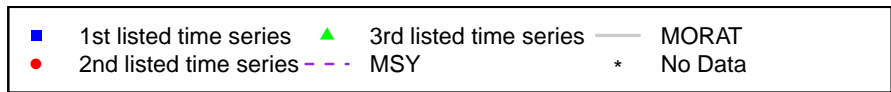
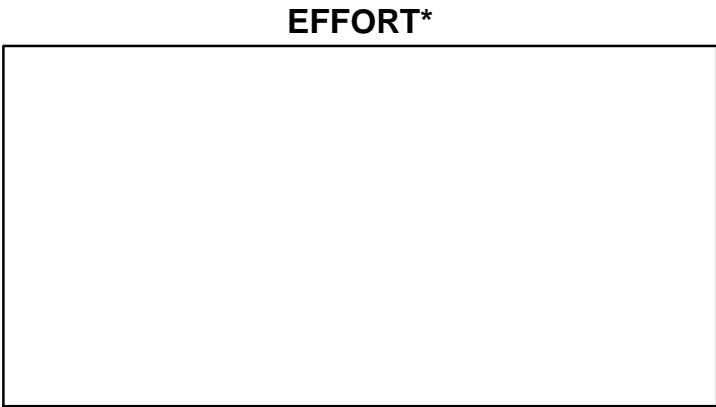
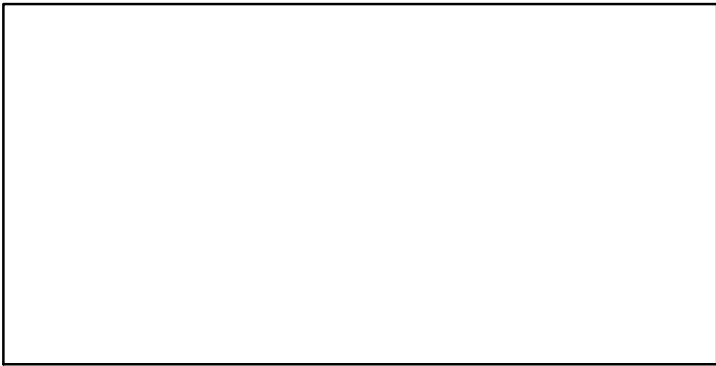
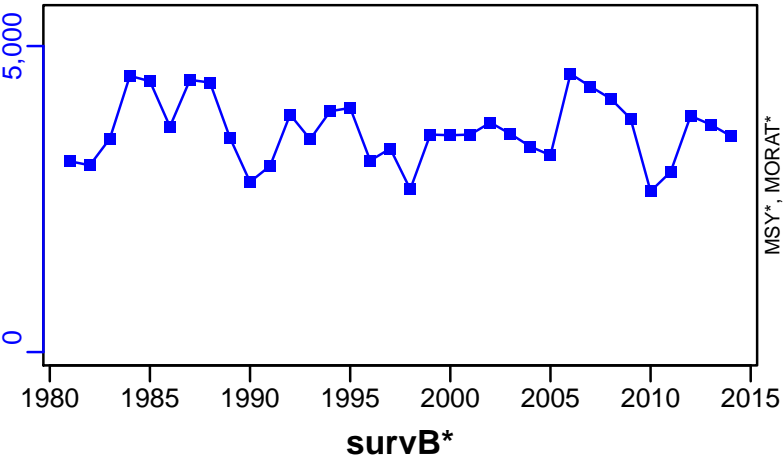
Recruits*



Norway lobster North Minch (FU 11) [NEPHFU11]

TL-MT, TC*, RecC* (1981-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



Norway lobster South Minch (FU 12) [NEPHFU12]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU12-1981-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	0.12
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2015	0	-	-
TC	-	-	-		
TL	TL-MT	2015	3160		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.47		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



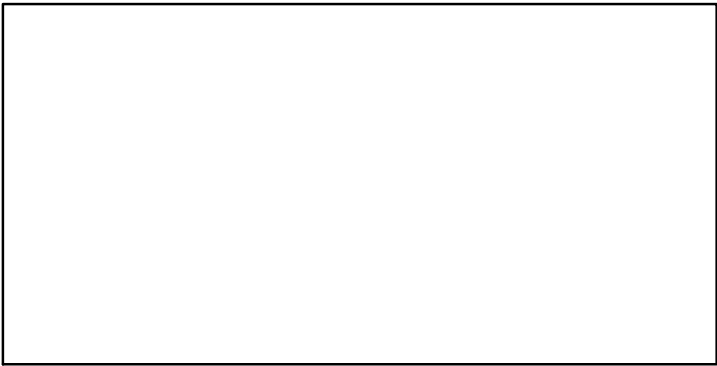
SSB*



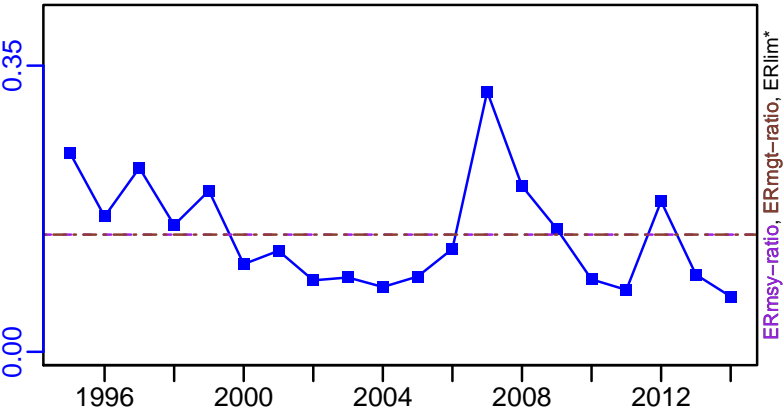
TN *



F*



ER-ratio (1981–2015–ICESIMP2016)



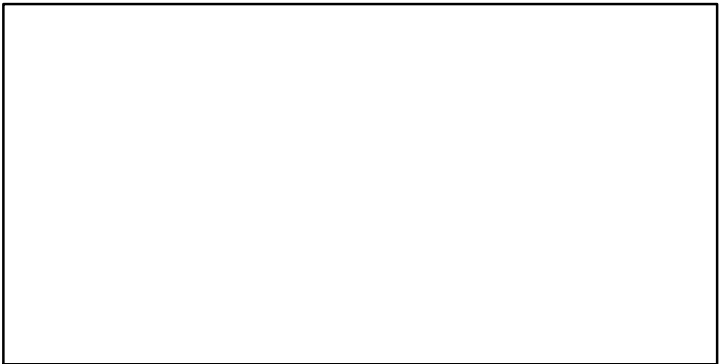
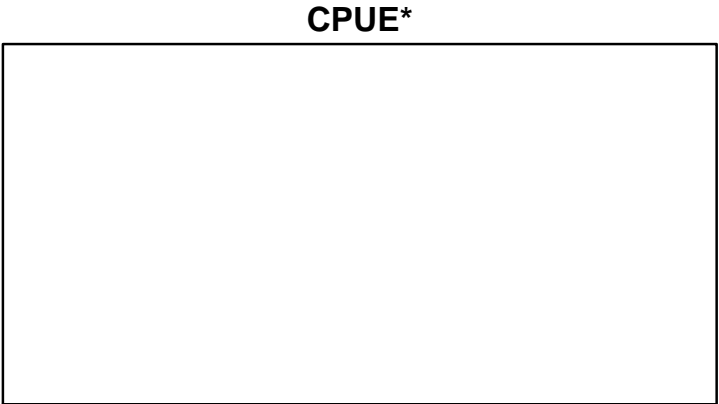
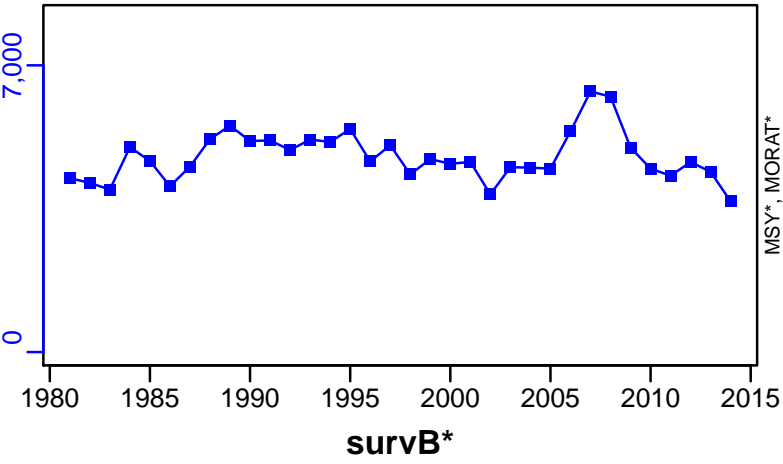
Recruits*



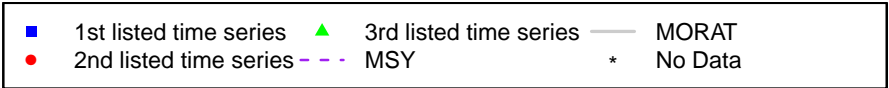
Norway lobster South Minch (FU 12) [NEPHFU12]

TL-MT, TC*, RecC* (1981-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU13-1981-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	0.16
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	2015	0	-	-
TC	-	-	-		
TL	TL-MT	2015	6190		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	1.38		
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*



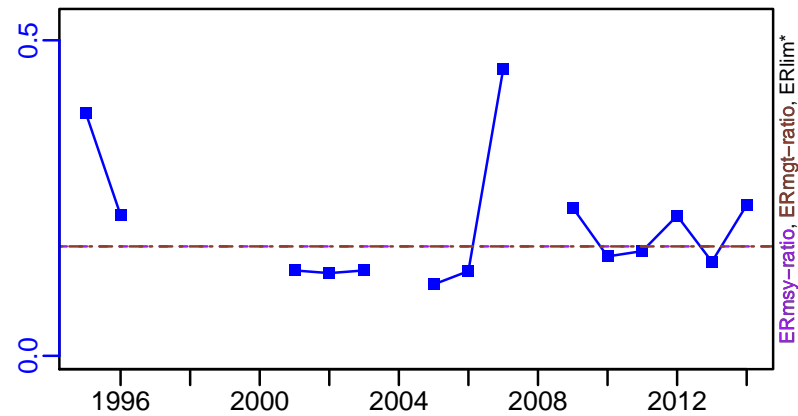
TN *



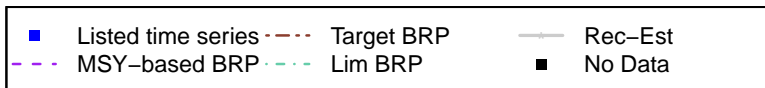
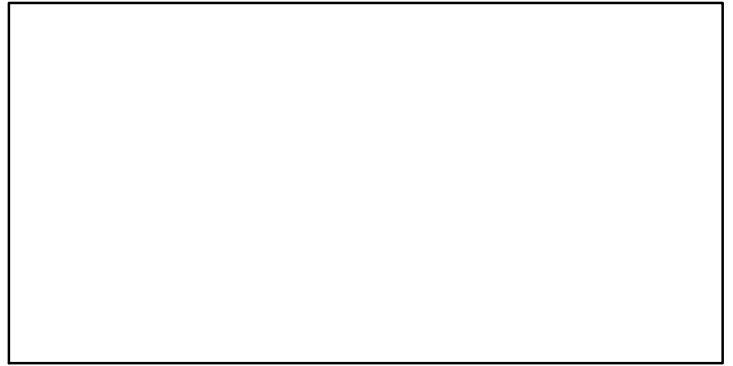
F*



ER-ratio (1981–2015–ICESIMP2016)



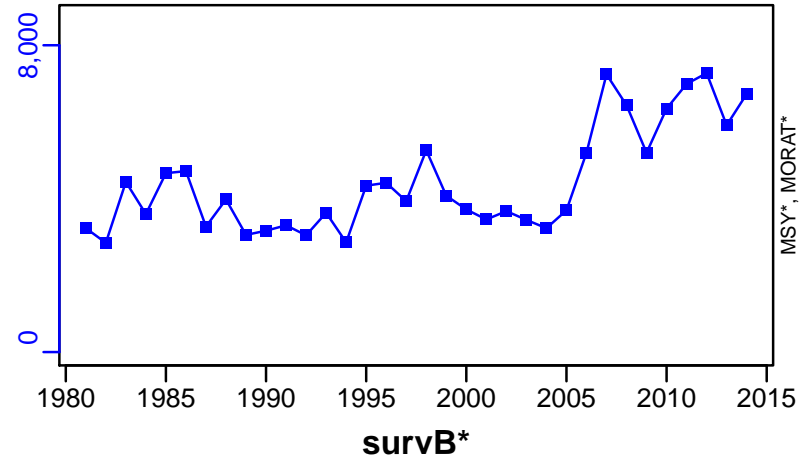
Recruits*



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

TL-MT, TC*, RecC* (1981-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

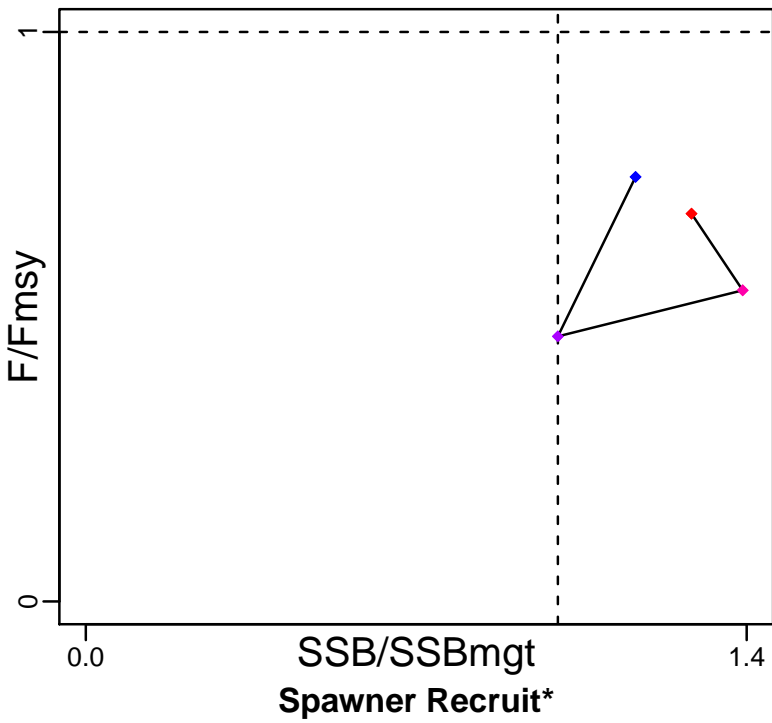
Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU14-2000-2015-ICESIMP2016
Area	Irish Sea East (FU 14)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015

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

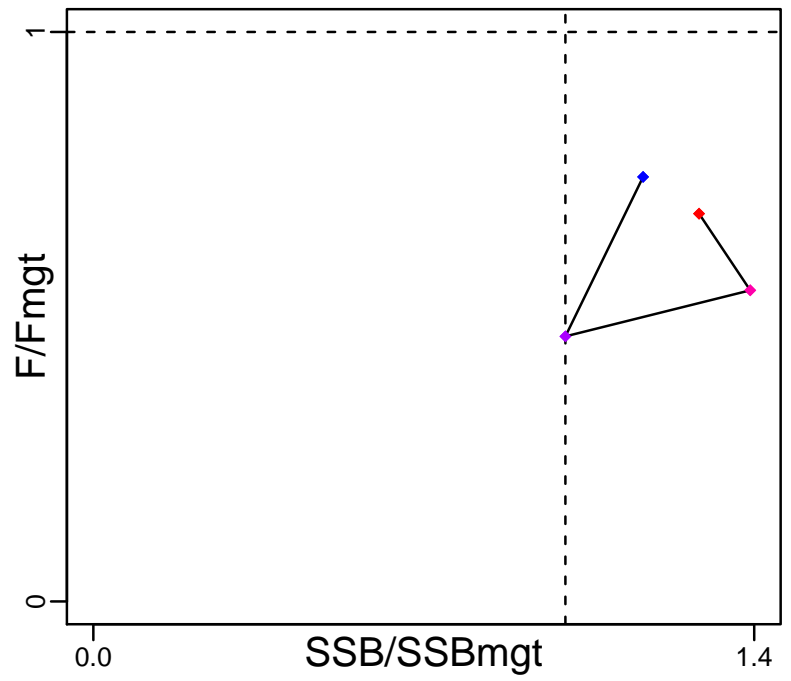
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	591	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	7	-	-
ER	ER-calc-ratio	2015	1	-	-
TC	-	-	-		
TL	TL-MT	2015	679		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.68		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.69		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.68		
ER/ERmgt	-	-	-		

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

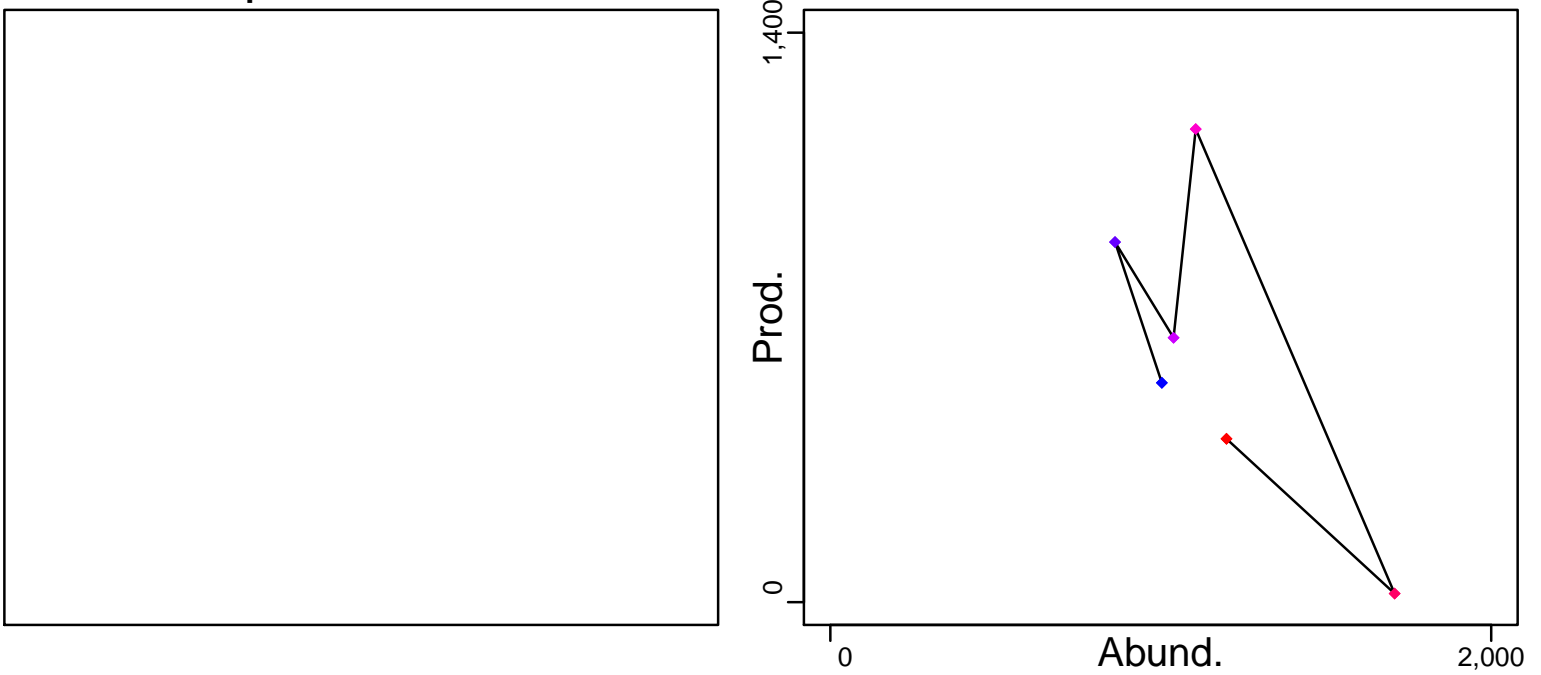
Kobe MSYpref (2000–2015–ICESIMP2016)



Kobe MGTpref (2000–2015–ICESIMP2016)



Production (2000–2015–ICESIMP2016)



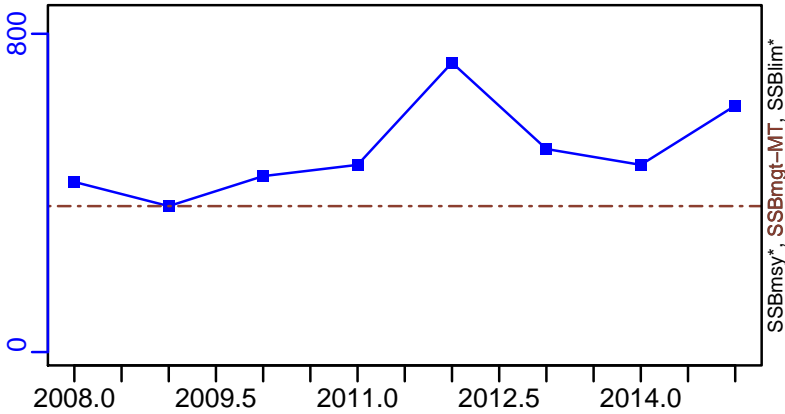
◆ Start Year ◆ End Year * No Data

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

TB*



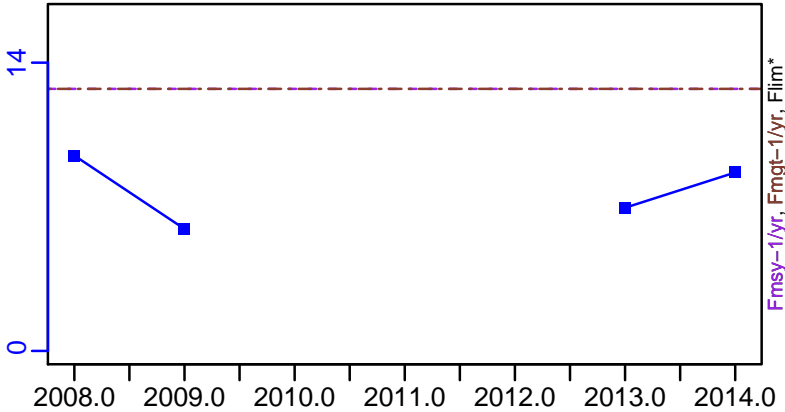
SSB-MT (2000–2015–ICESIMP2016)



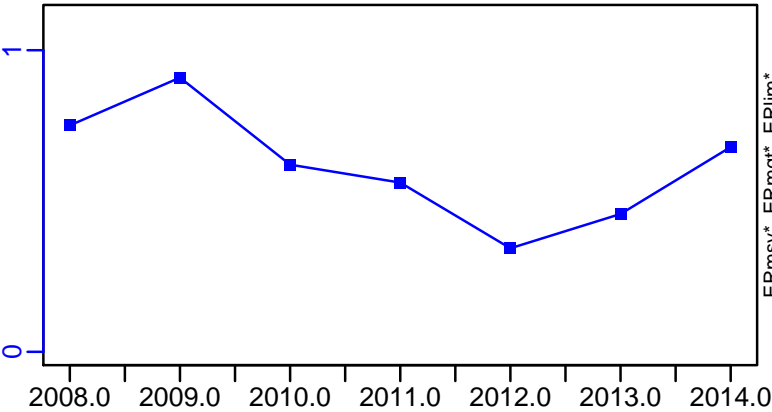
TN *



F-1/yr (2000–2015–ICESIMP2016)



ER-calc-ratio (2000–2015–ICESIMP2016)

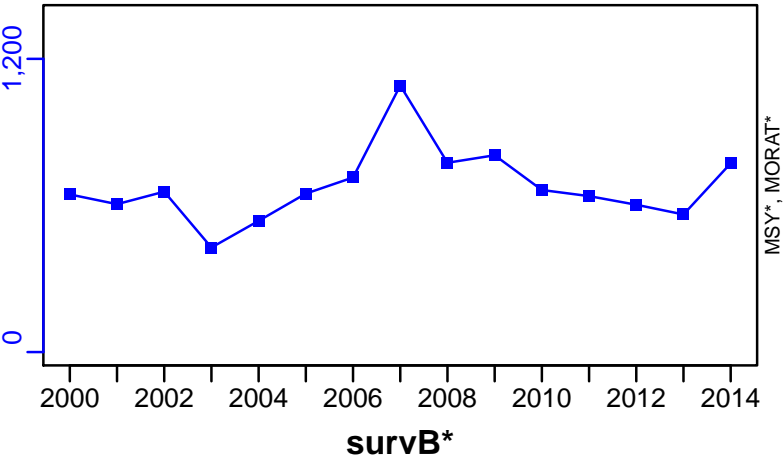


Recruits*



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

TL-MT, TC*, RecC* (2000–2015–ICESIMP2016)



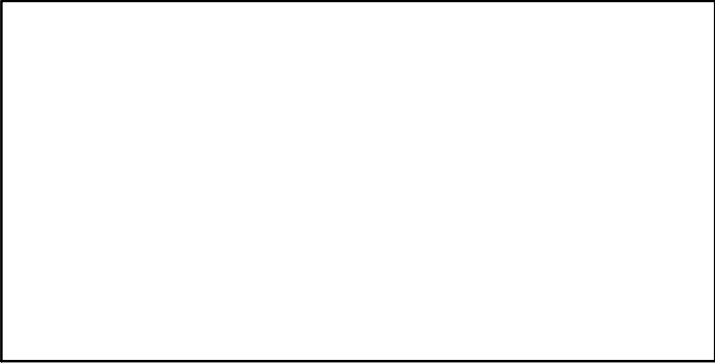
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



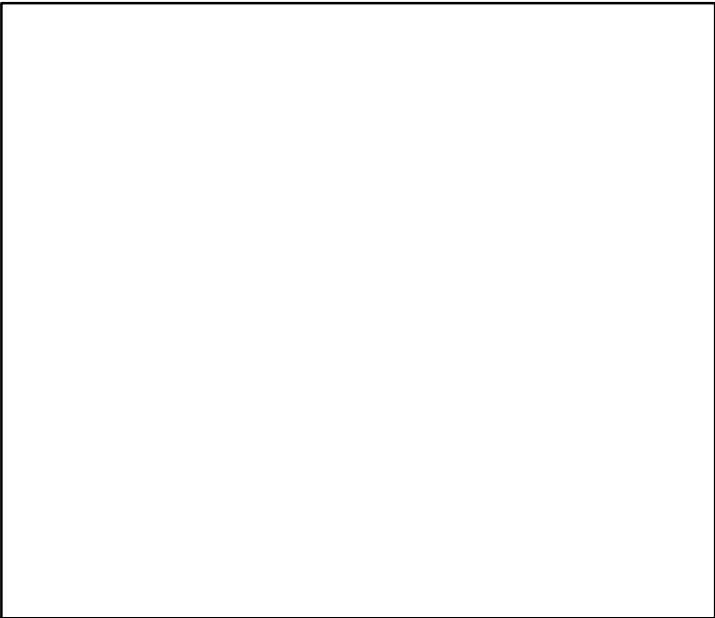
Norway lobster Irish Sea West (FU 15) [NEPHFU15]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU15-1960-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	17.1
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	17.1
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	2015	18	-	-
TC	-	-	-		
TL	TL-MT	2015	8610		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	1.02		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

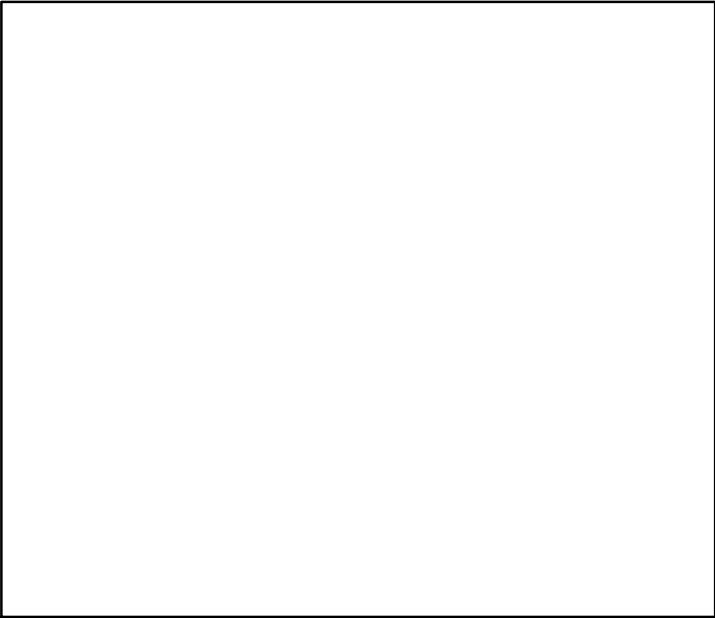
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



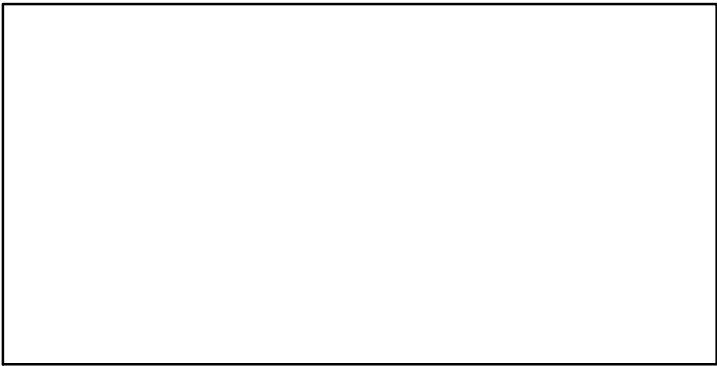
SSB*



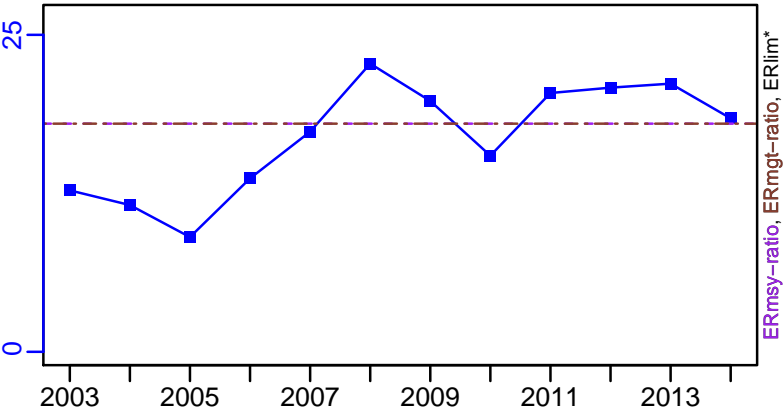
TN *



F*



ER-ratio (1960–2015–ICESIMP2016)

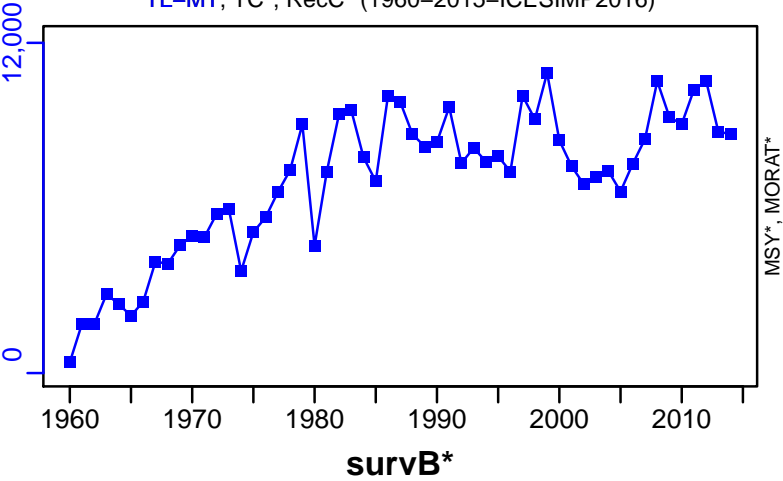


Recruits*



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

TL-MT, TC*, RecC* (1960-2015-ICESIMP2016)



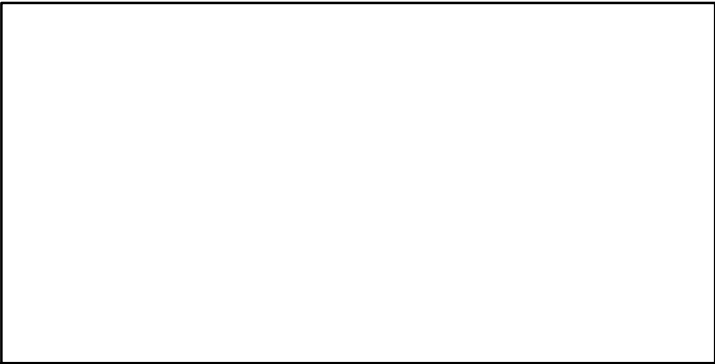
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU16-1981-2015-ICESIMP2016
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	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	1190		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

TB*



SSB*



TN *



F*



ER*



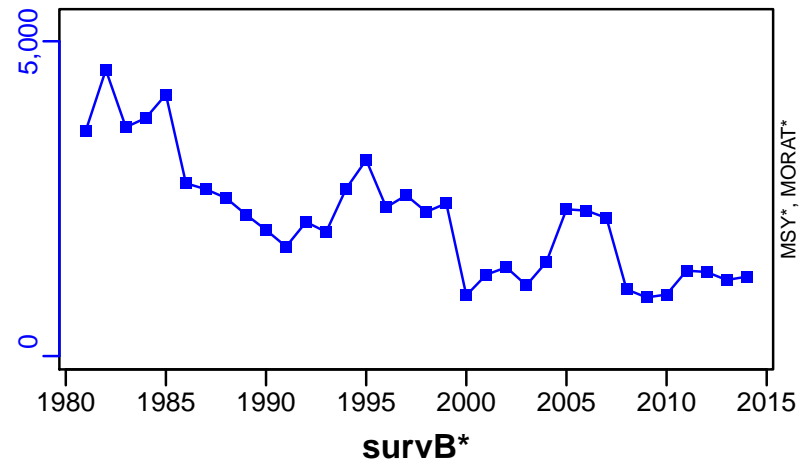
Recruits*



Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

TL-MT, TC*, RecC* (1981-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Norway lobster Aran Grounds (FU 17) [NEPHFU17]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU17-1974-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	12.5
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	12.5
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	2015	10	-	-
TC	-	-	-		
TL	TL-MT	2015	766		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.79		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

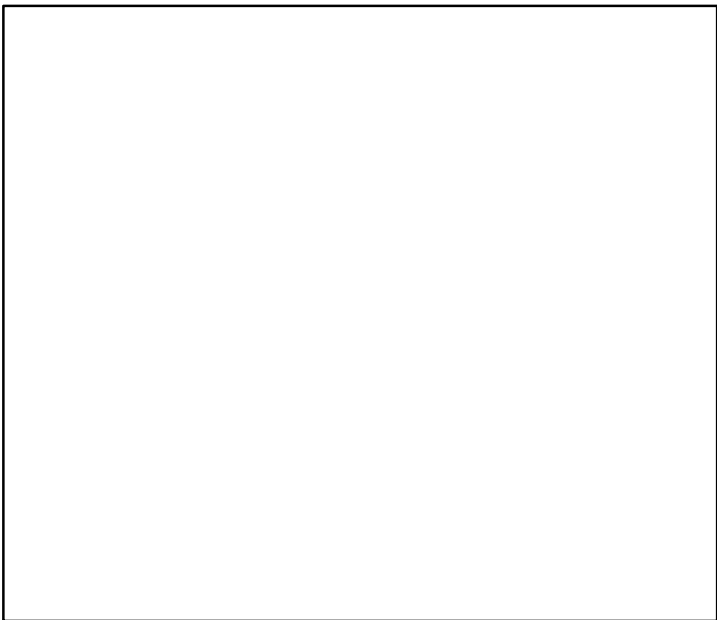
Kobe MSY*



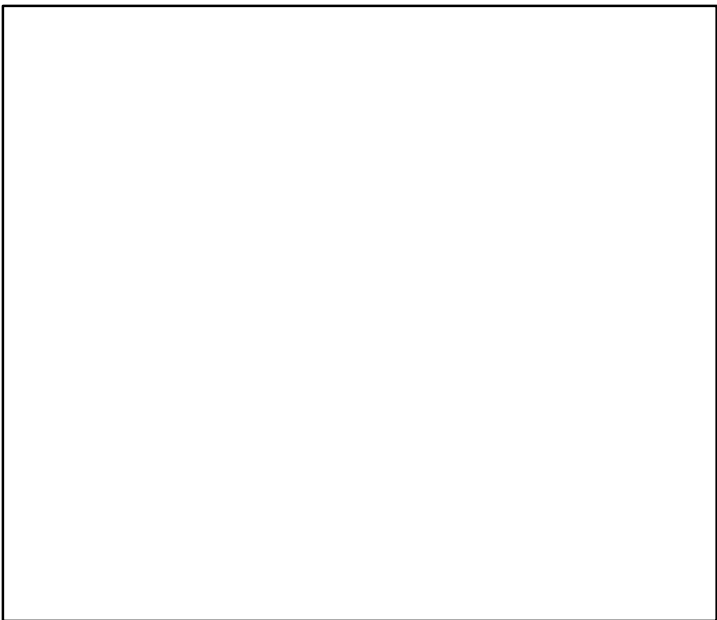
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

TB*



SSB*



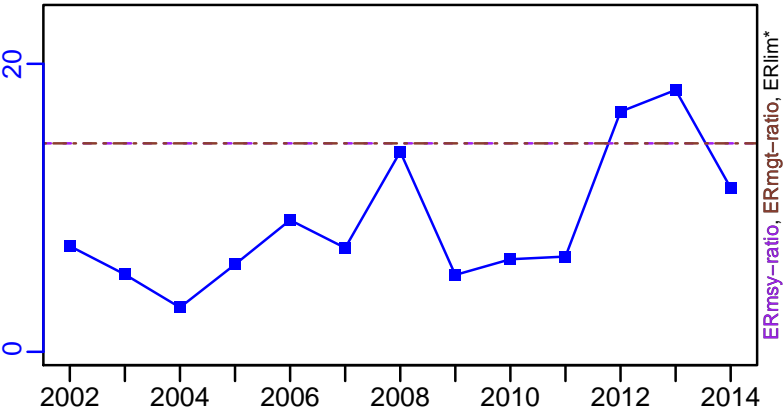
TN *



F*



ER-ratio (1974–2015–ICESIMP2016)

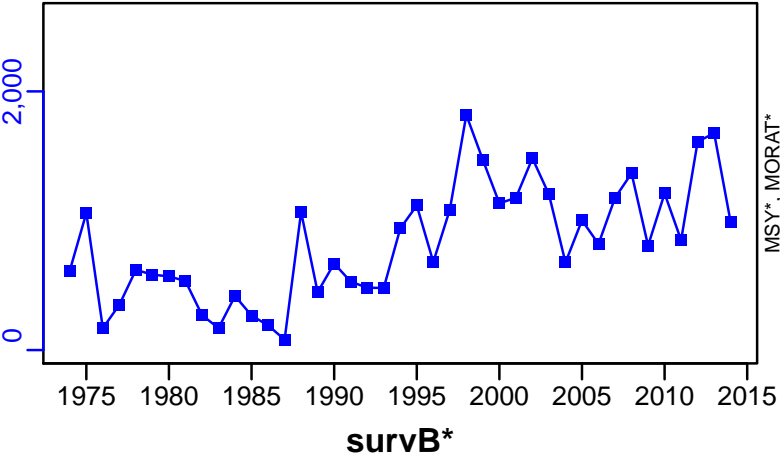


Recruits*



Norway lobster Aran Grounds (FU 17) [NEPHFU17]

TL-MT, TC*, RecC* (1974-2015-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU19-2006-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	468		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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 South East and West of IRL (FU 19) [NEPHFU19]

TB*



SSB*



TN *



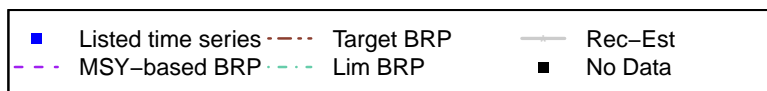
F*



ER*



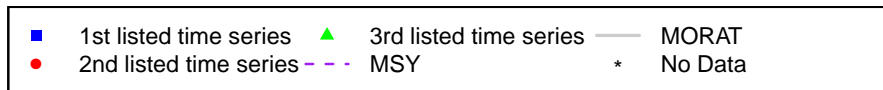
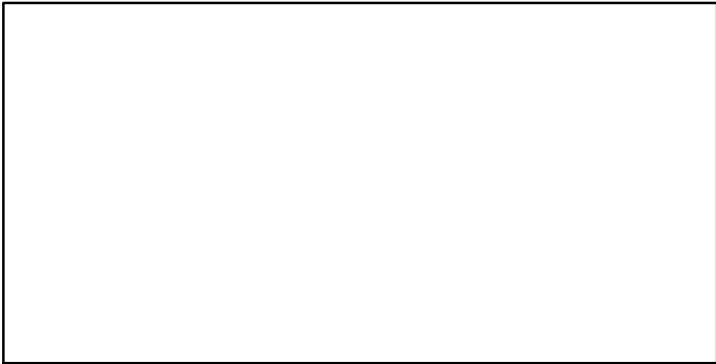
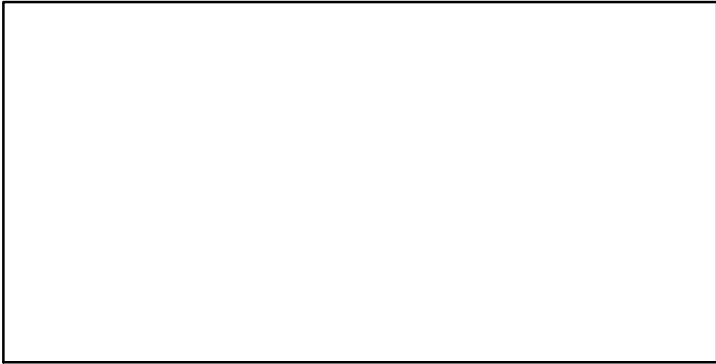
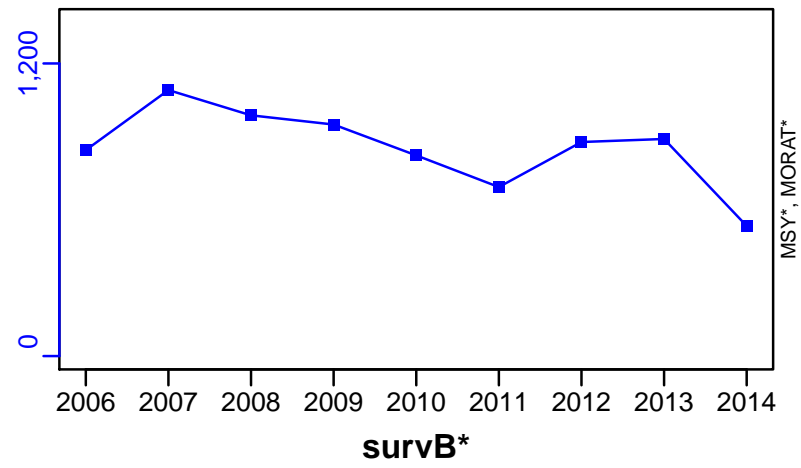
Recruits*



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

TL-MT, TC*, RecC* (2006–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU2021-1995-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	1840		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

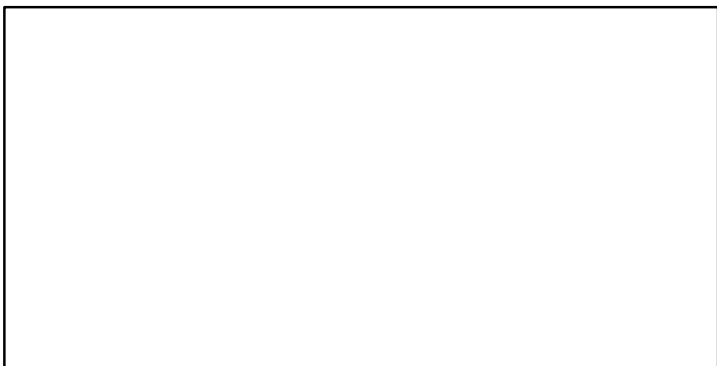


Production*

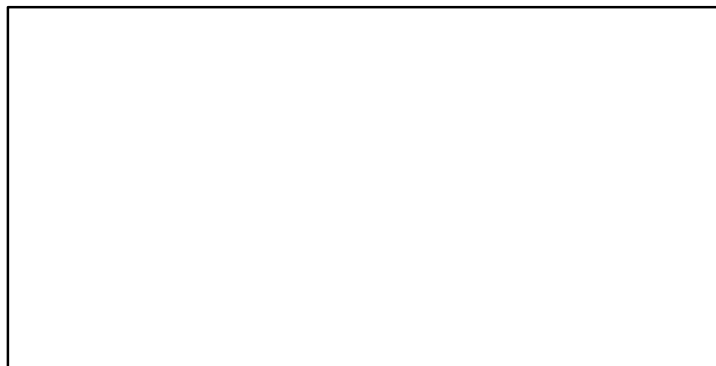


◆ Start Year ◆ End Year * No Data

TB*



SSB*



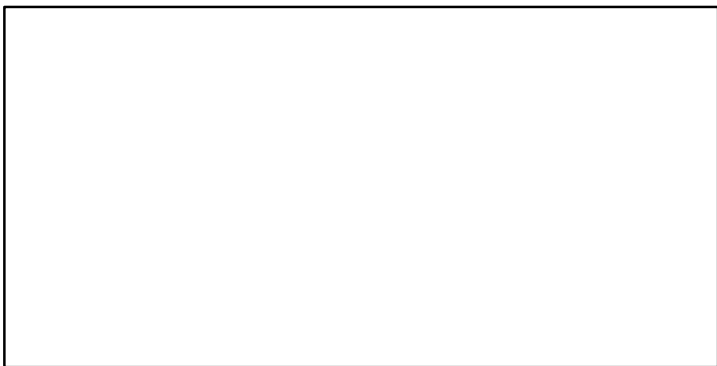
TN *



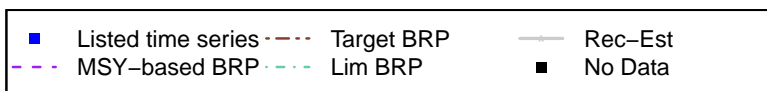
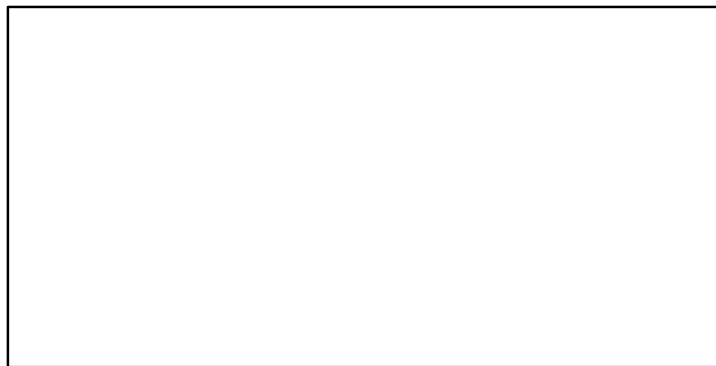
F*



ER*



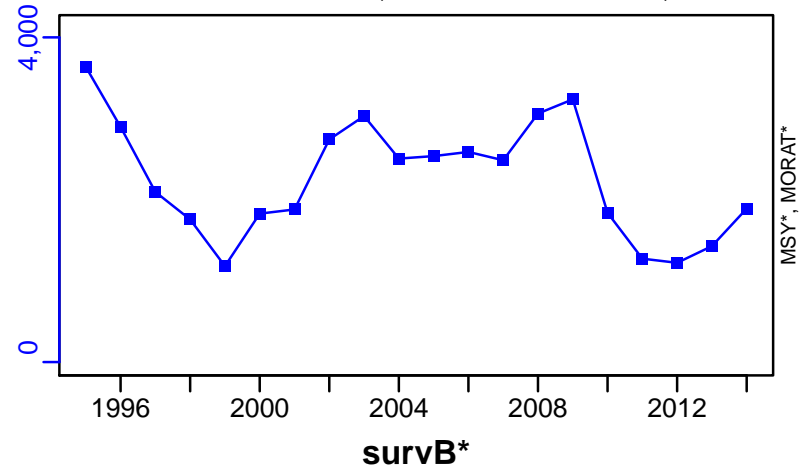
Recruits*



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

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

TAC*, Cpair*, Cadv*



EFFORT*



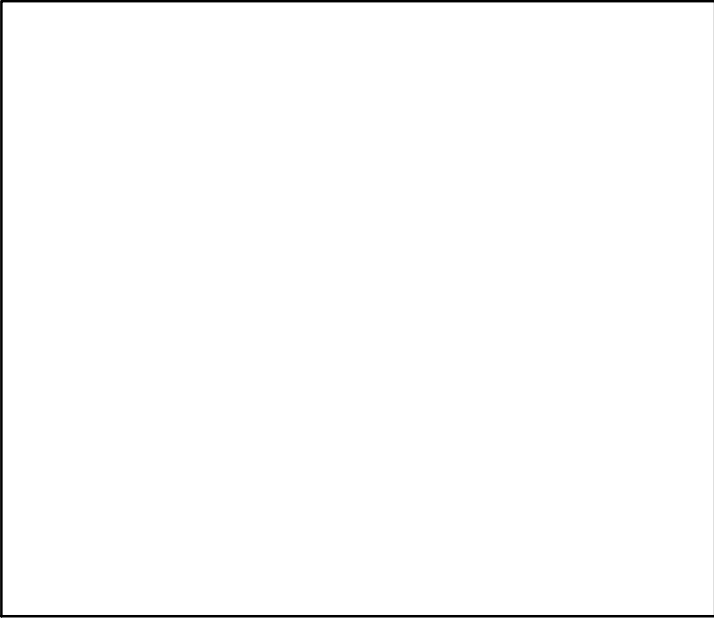
Norway lobster Smalls (FU 22) [NEPHFU22]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGCSE-NEPHFU22-1999-2015-ICESIMP2016
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

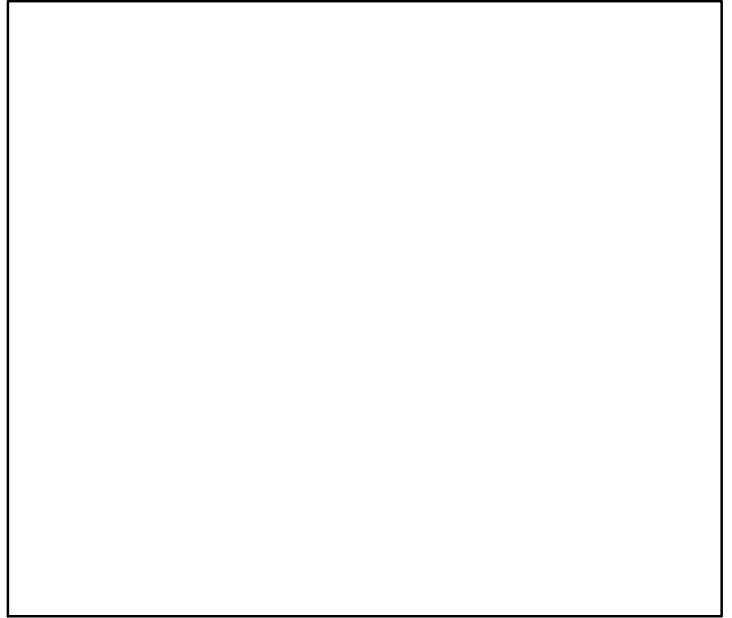
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	10.9
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2015	10.9
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2015	8	-	-
TC	-	-	-		
TL	TL-MT	2015	2610		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2015	0.72		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

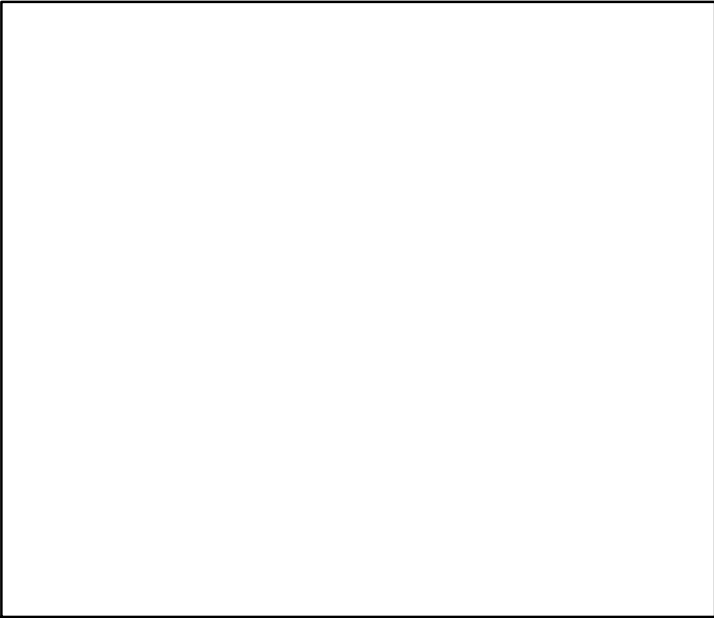
Kobe MSY*



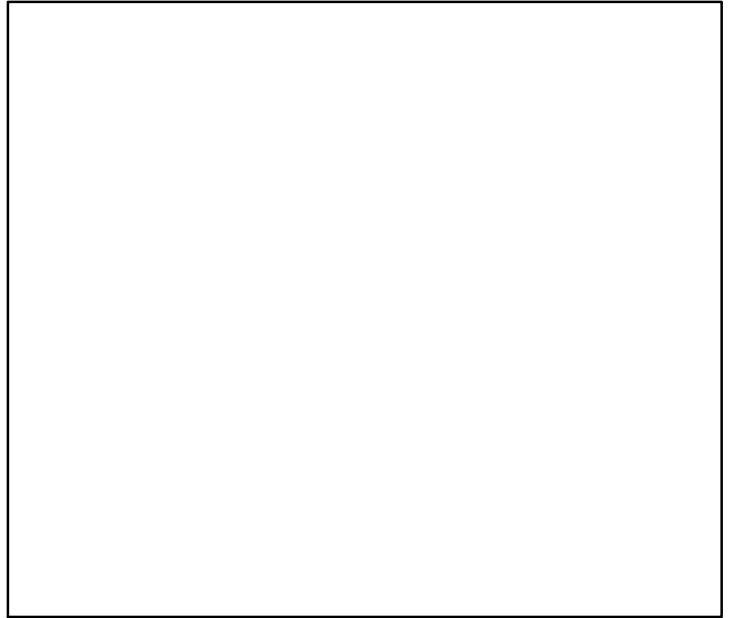
Kobe MGT*



Spawner Recruit*



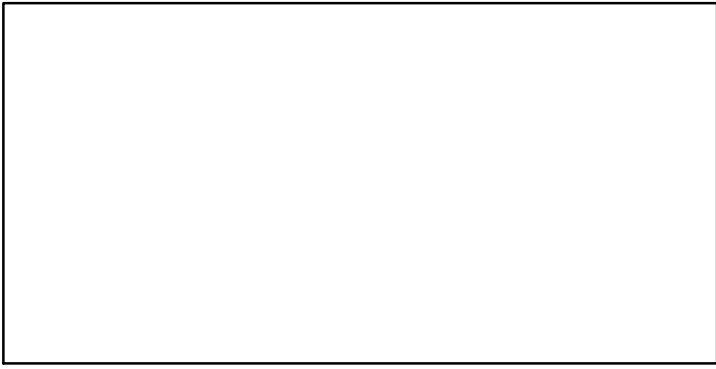
Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Smalls (FU 22) [NEPHFU22]

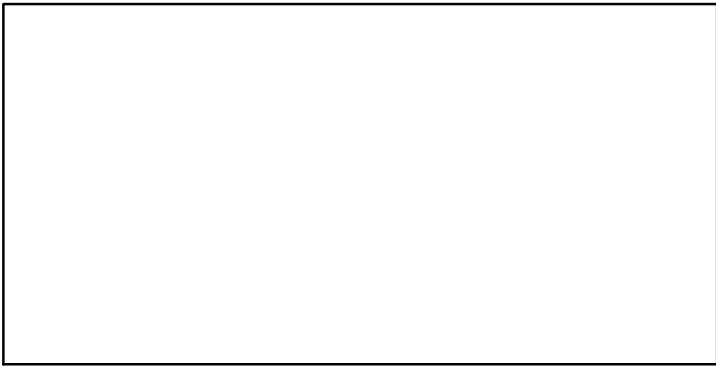
TB*



SSB*



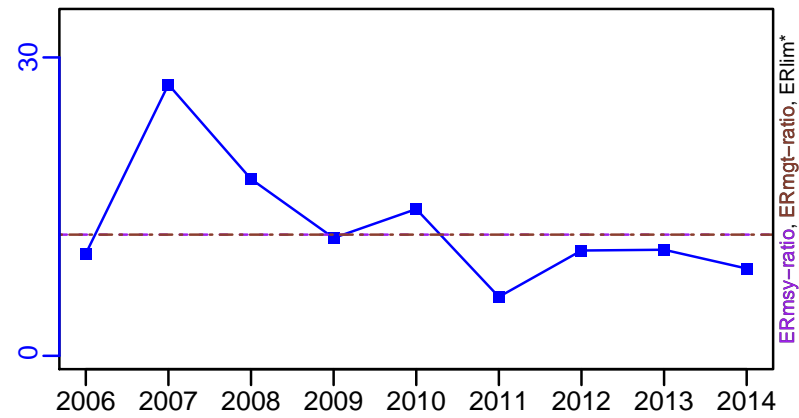
TN *



F*



ER-ratio (1999–2015–ICESIMP2016)



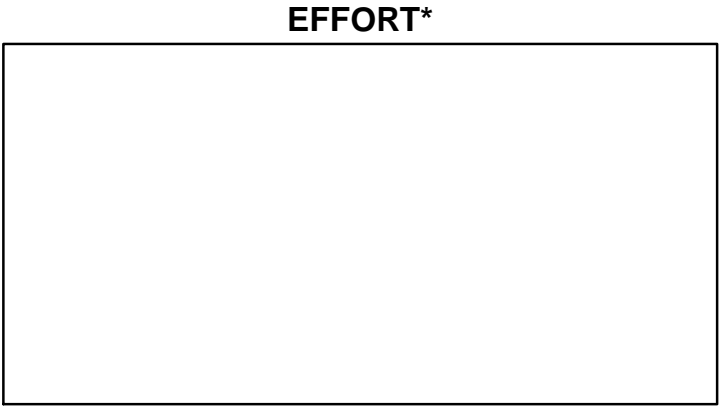
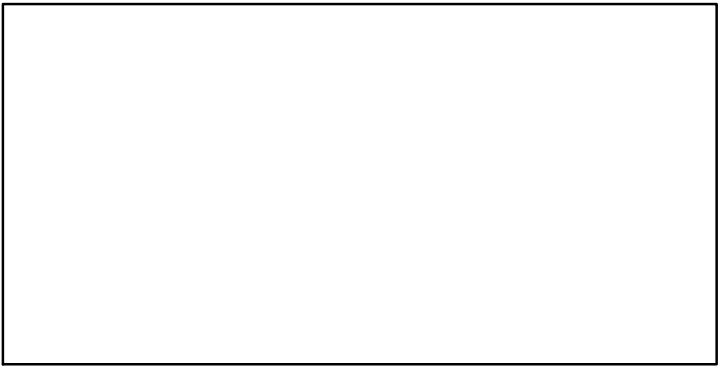
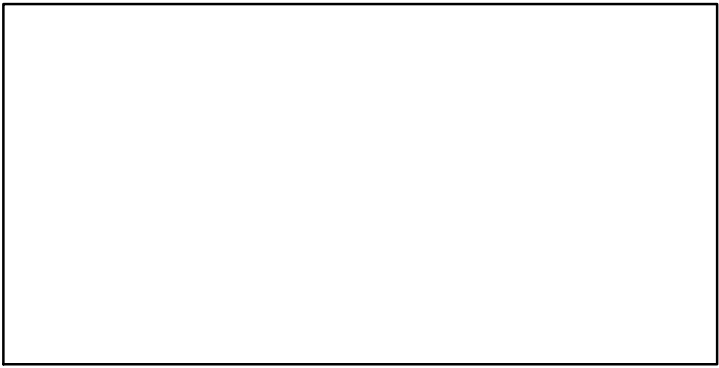
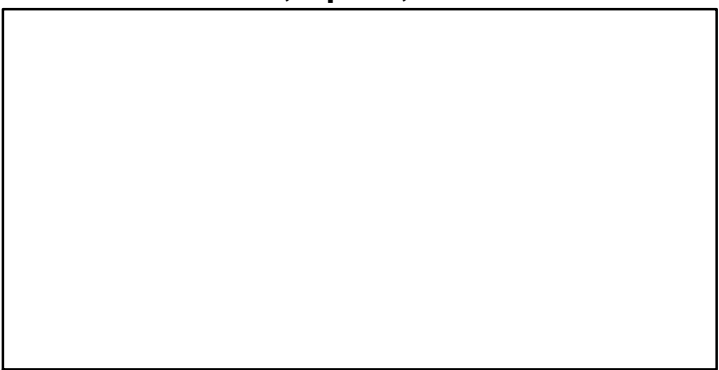
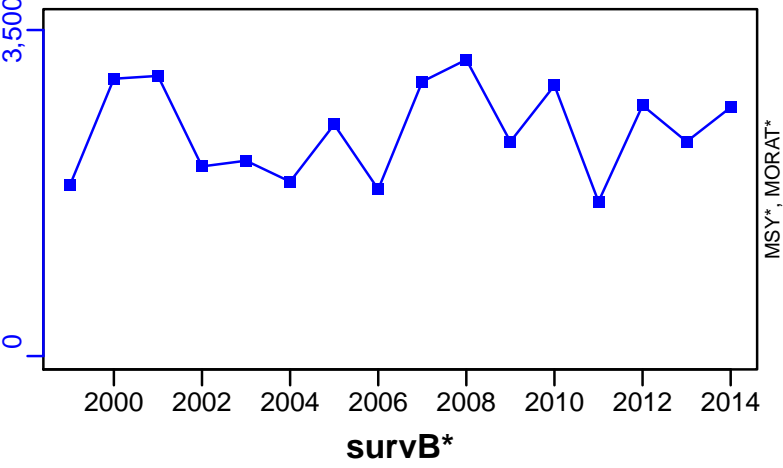
Recruits*



Norway lobster Smalls (FU 22) [NEPHFU22]

TL-MT, TC*, RecC* (1999–2015–ICESIMP2016)

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	14.1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



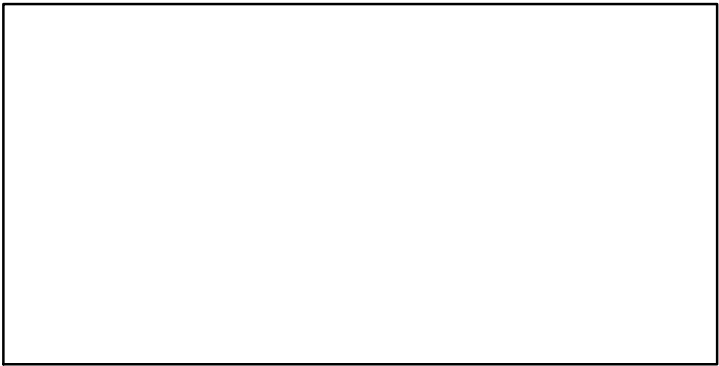
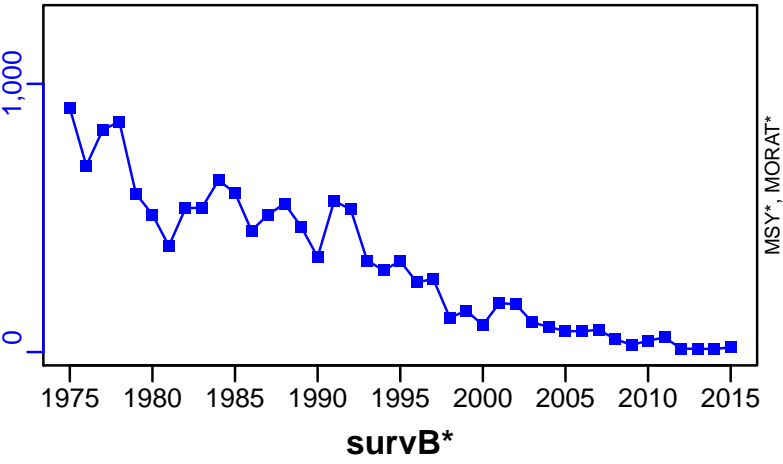
Recruits*



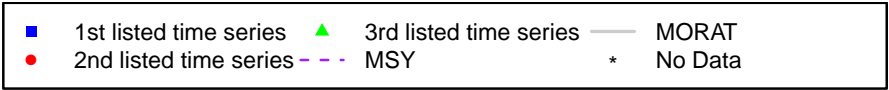
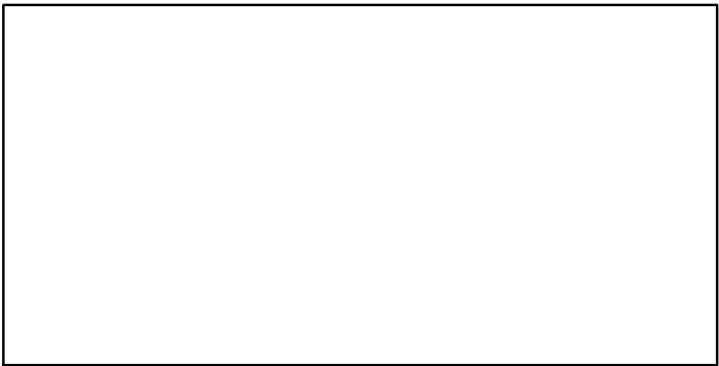
Norway lobster North Galicia (FU 25) [NEPHFU25]

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

TAC*, Cpair*, Cadv*



EFFORT*



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*



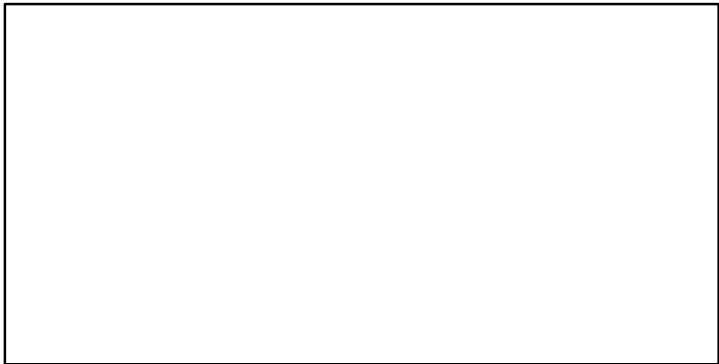
SSB*



TN *



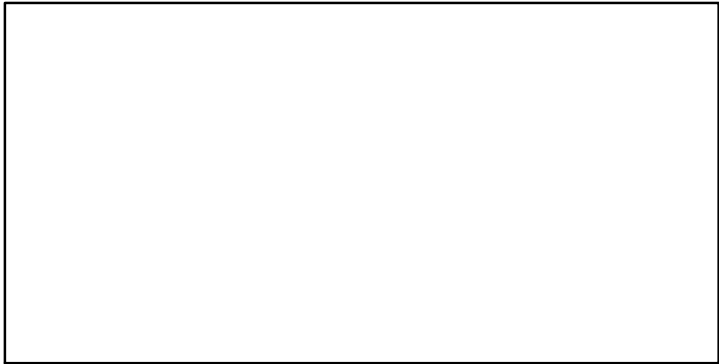
F*



ER*

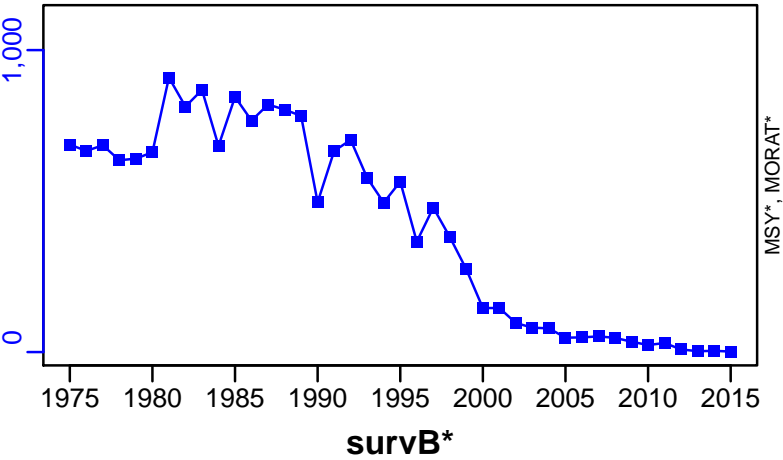


Recruits*



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

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

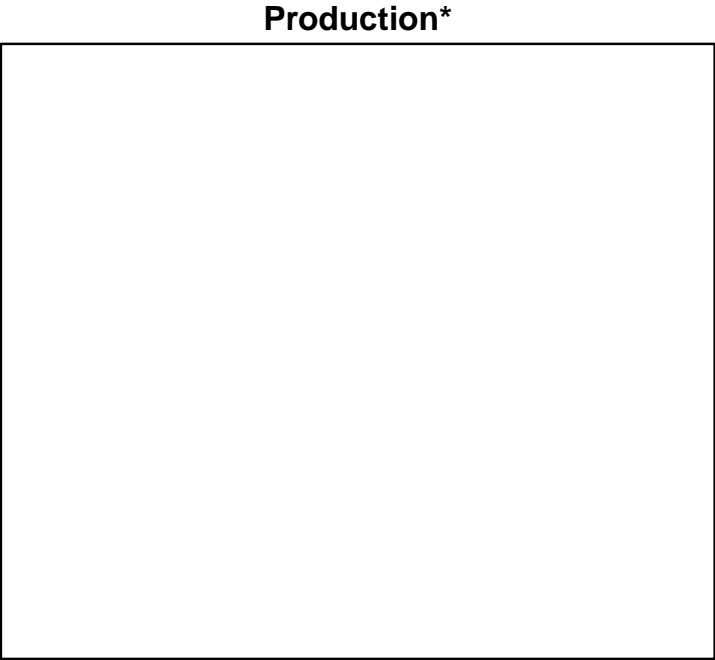
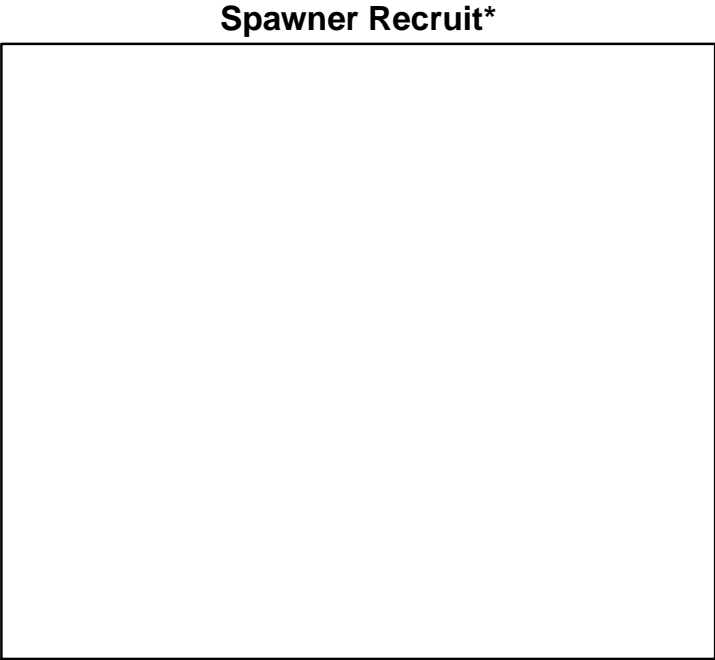
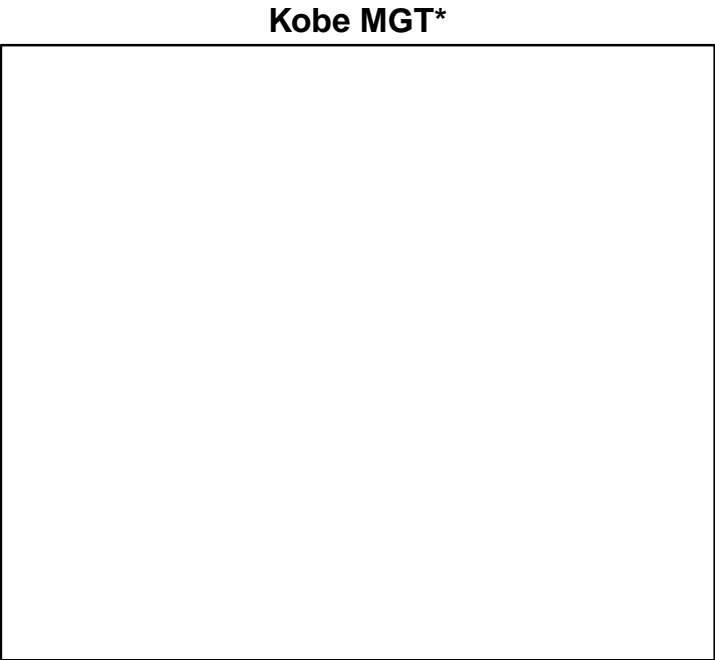
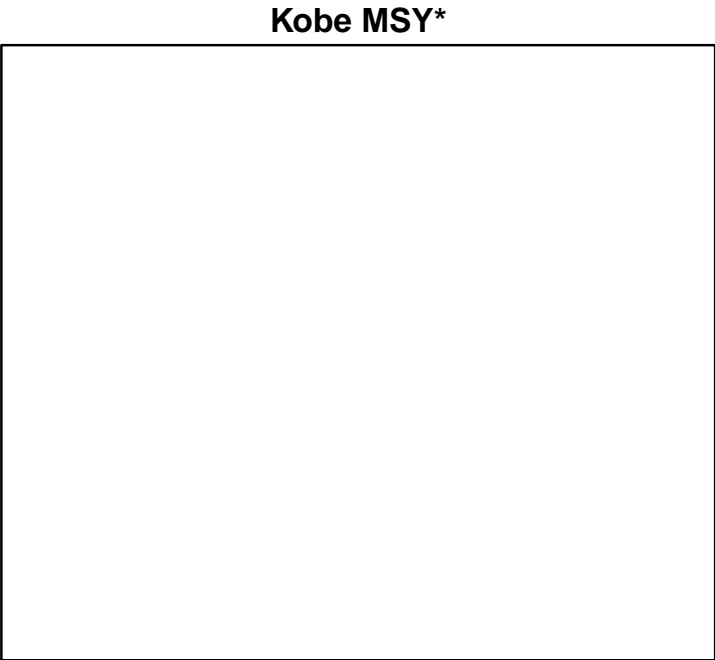


Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU2829-1984-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	235		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

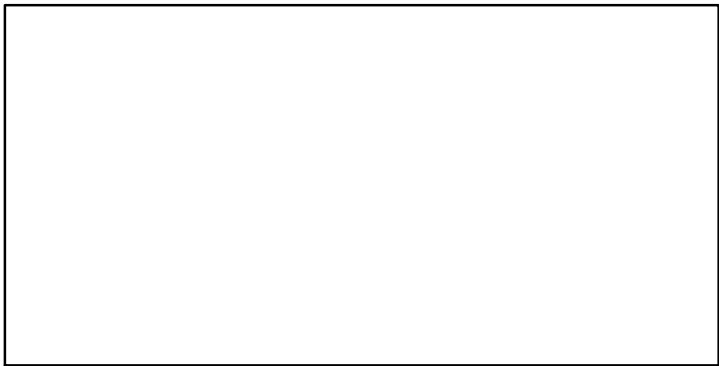


◆ Start Year ◆ End Year * No Data

TB*



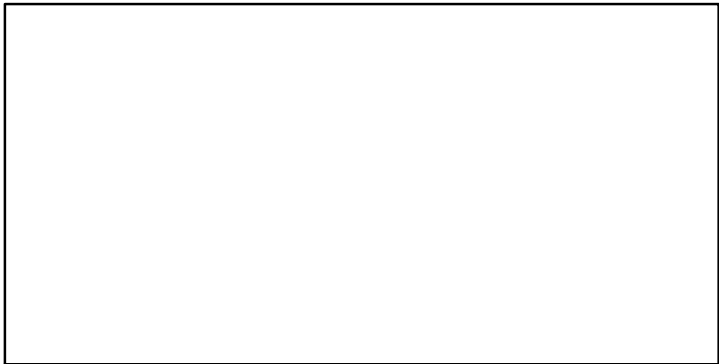
SSB*



TN *



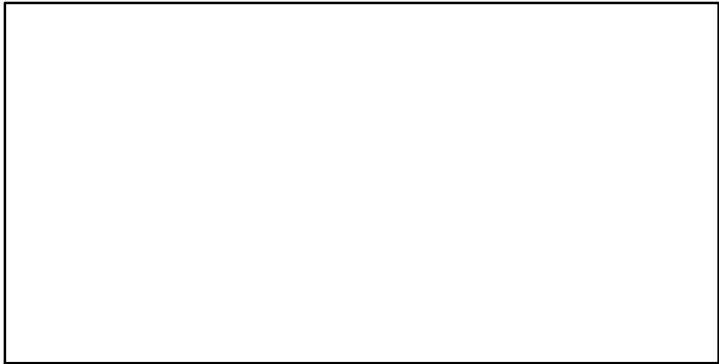
F*



ER*

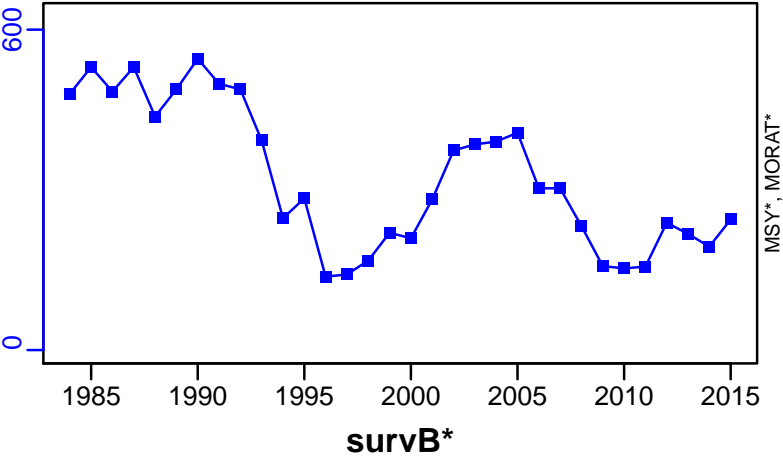


Recruits*



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

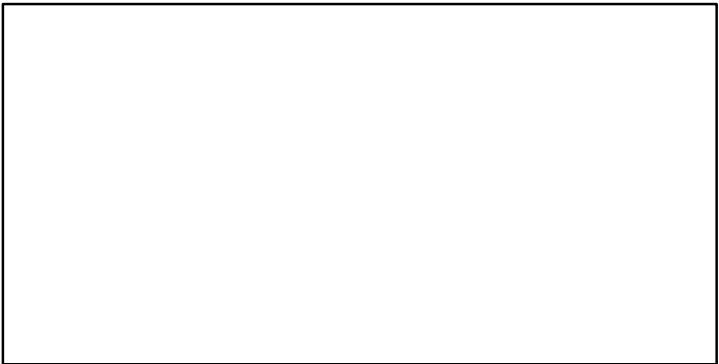
TL-MT, TC*, RecC* (1984-2016-ICESIMP2016)



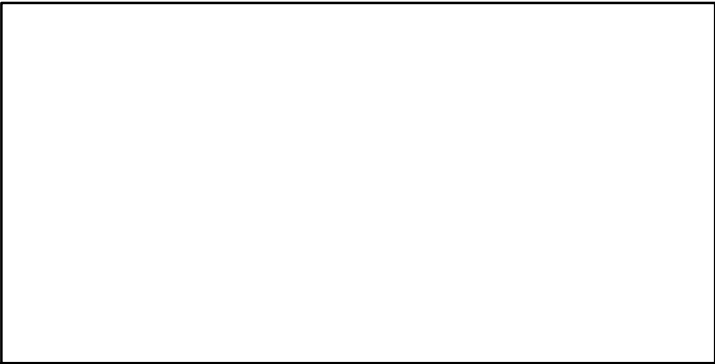
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGBIE-NEPHFU30-1994-2016-ICESIMP2016
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

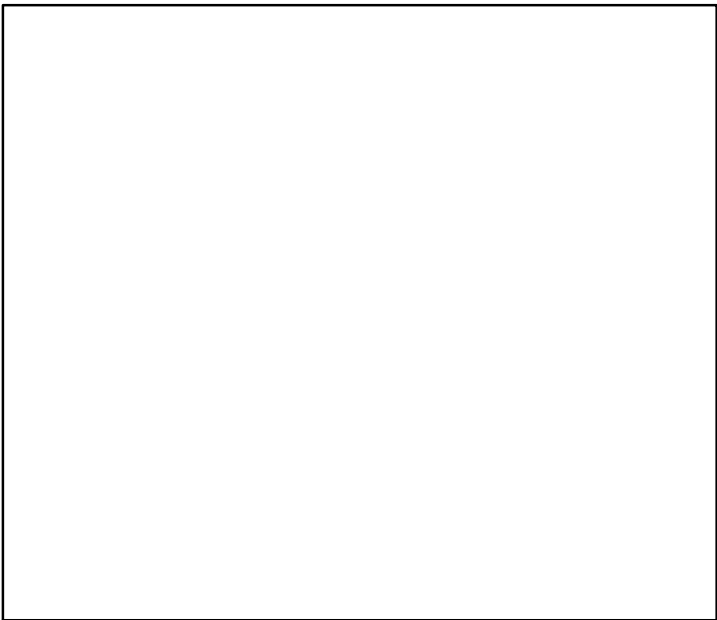
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

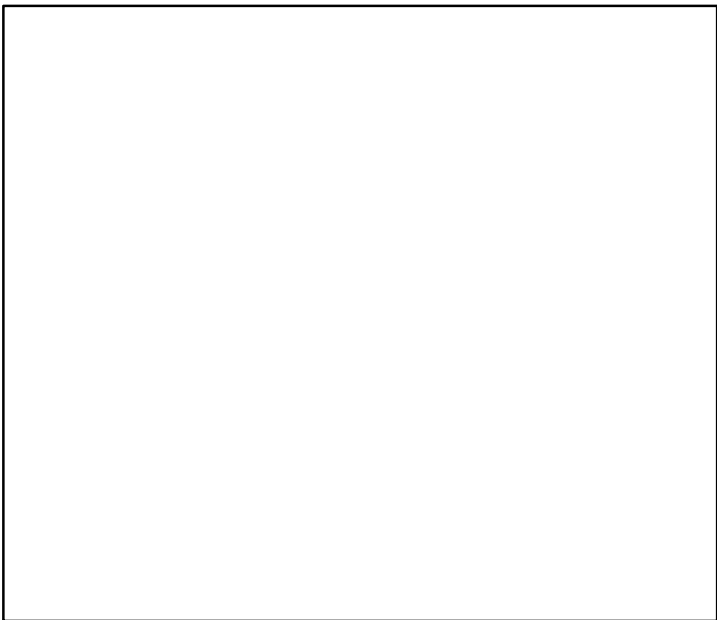
Kobe MSY*



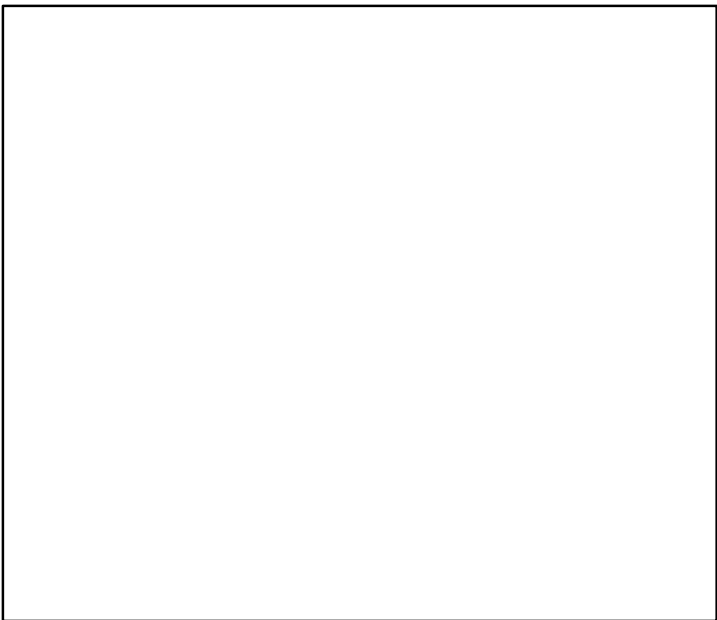
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



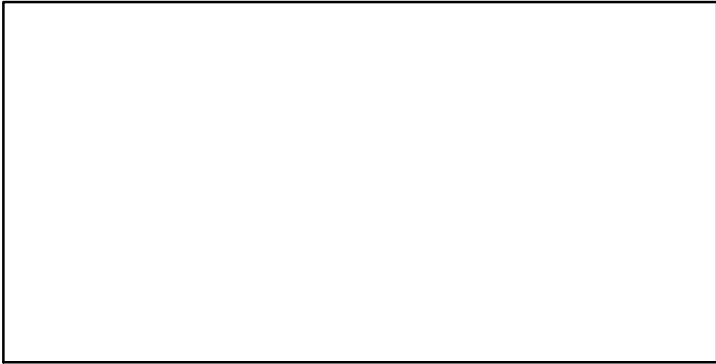
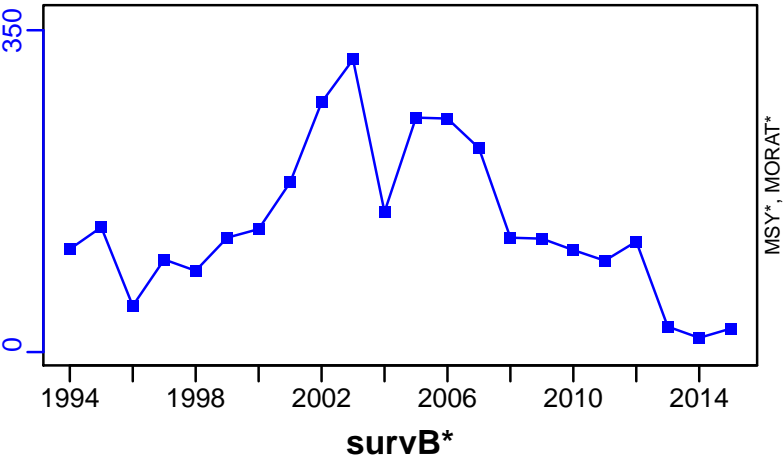
Recruits*



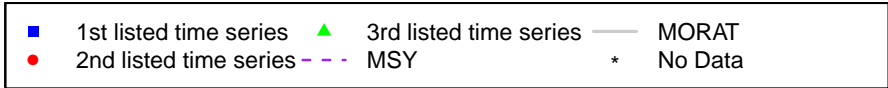
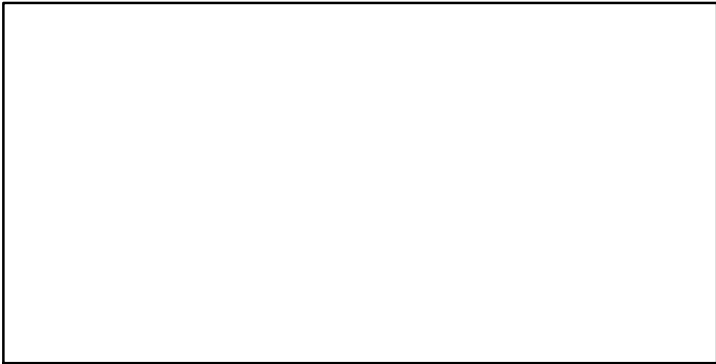
Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

TL-MT, TC*, RecC* (1994–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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	24.6		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*



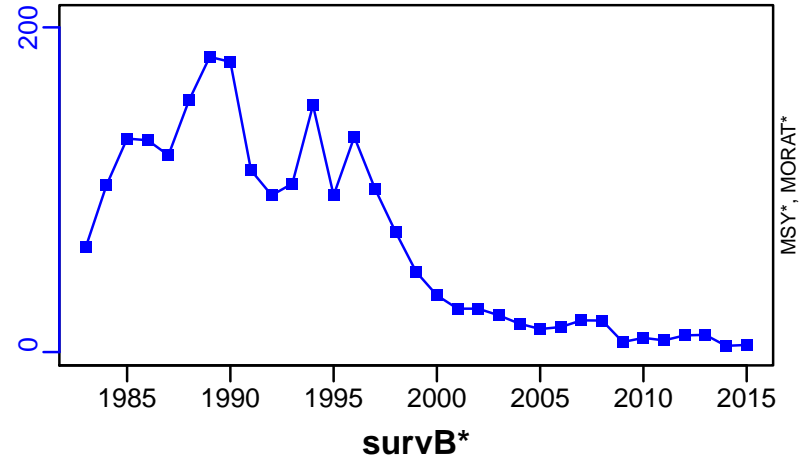
Recruits*



Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

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

TAC*, Cpair*, Cadv*



EFFORT*



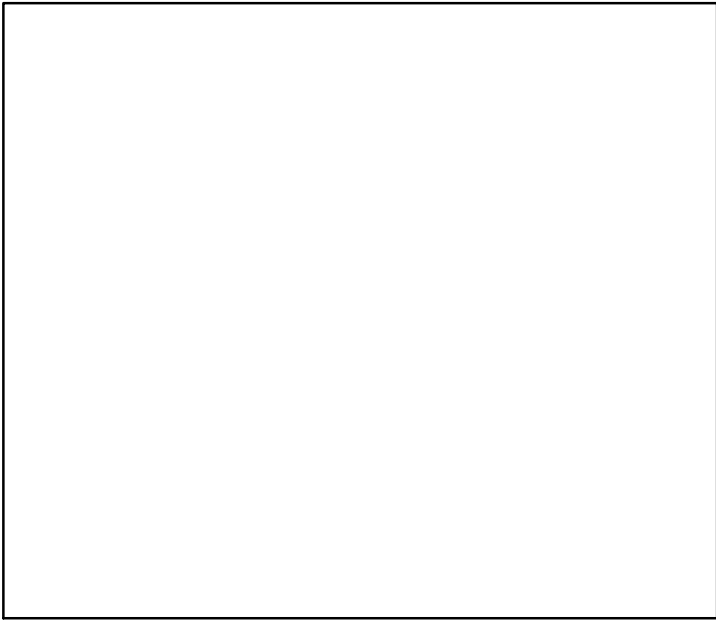
Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU32-1987-2016-ICESIMP2016
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

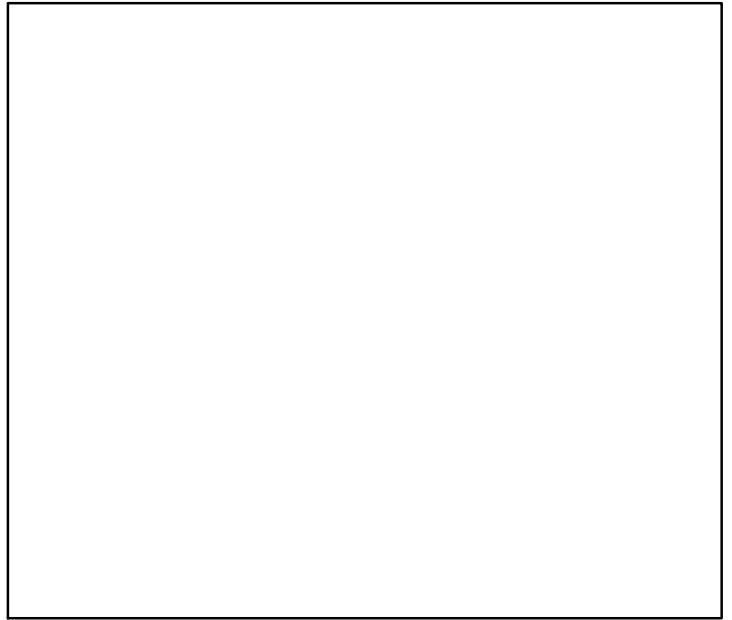
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

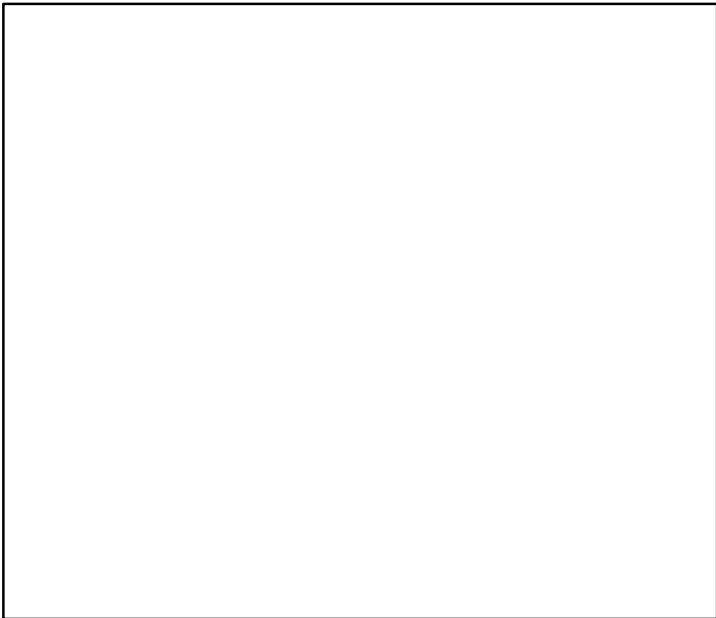
Kobe MSY*



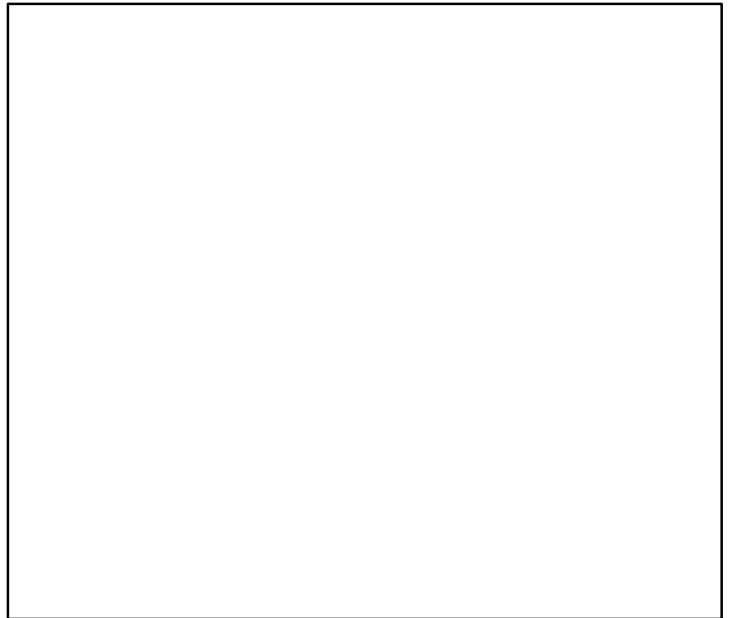
Kobe MGT*



Spawner Recruit*



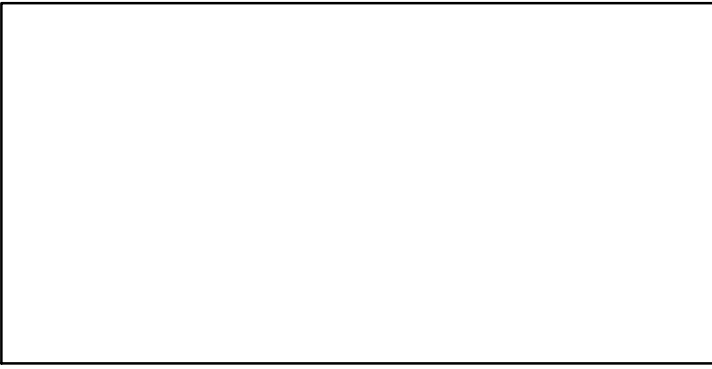
Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

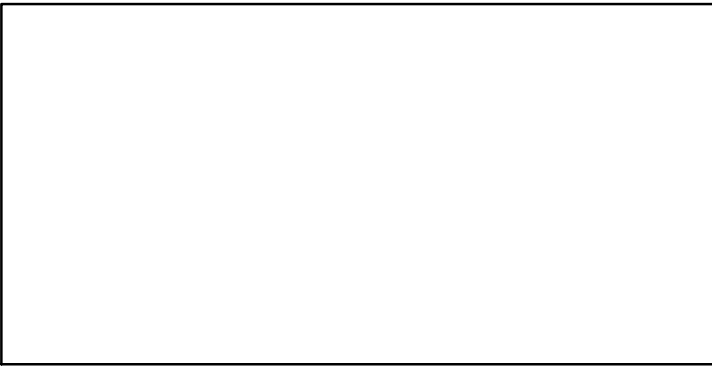
TB*



SSB*



TN *



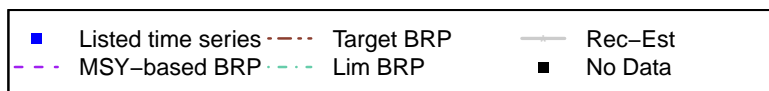
F*



ER*

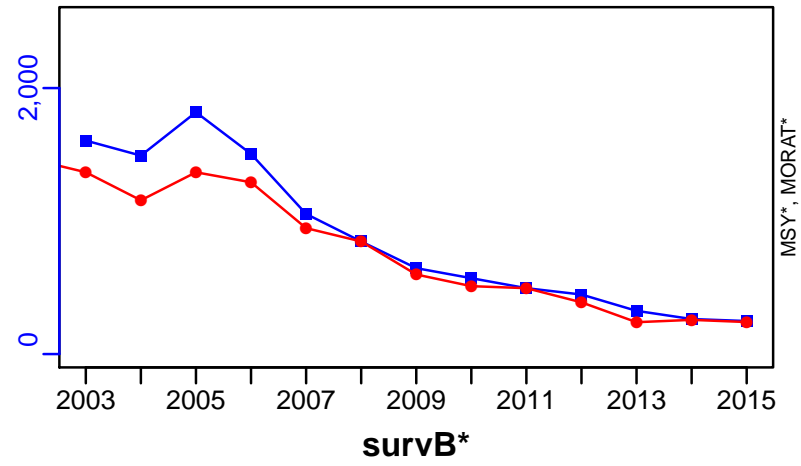


Recruits*



Norway lobster Norwegian Deep-sea (FU 32) [NEPHFU32]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU33-1993-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	2016	192		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

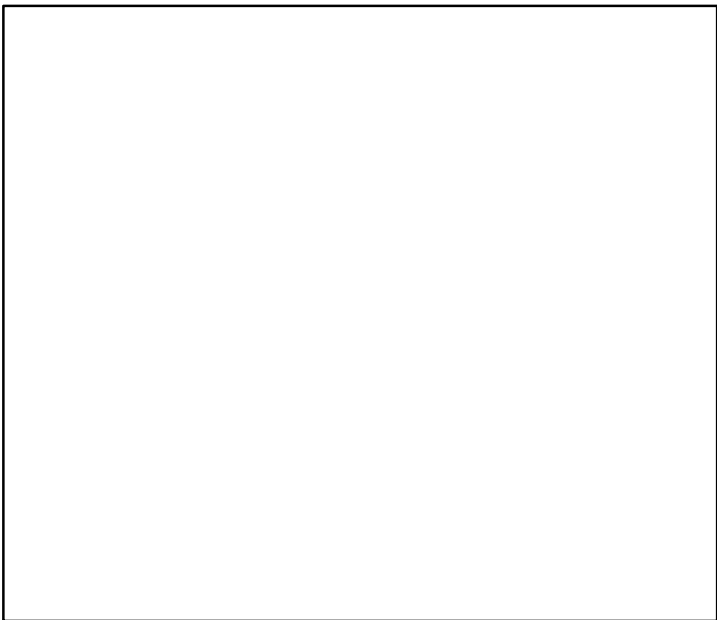
Kobe MSY*



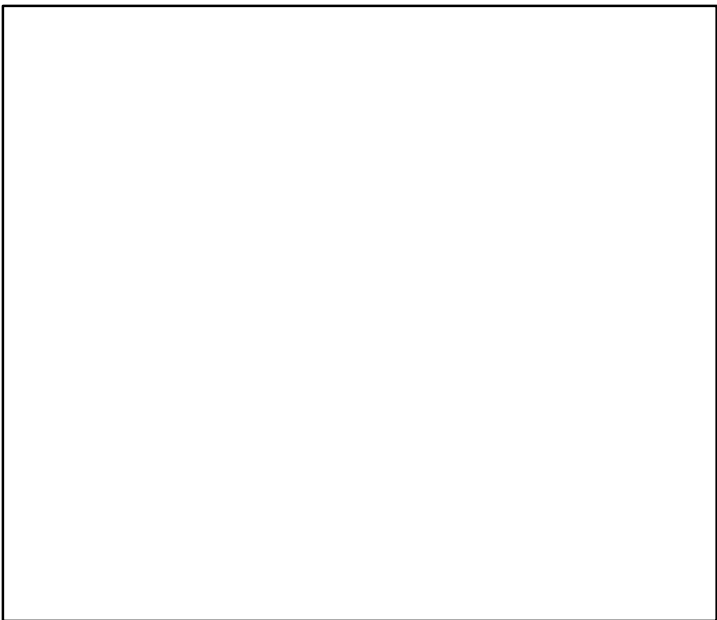
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

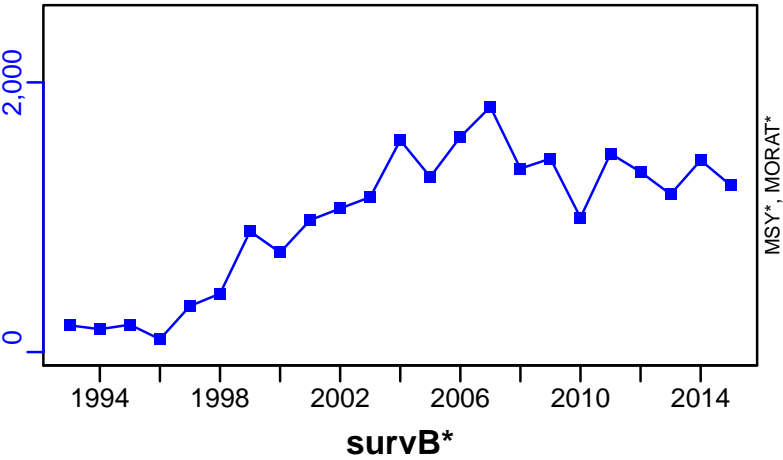


Recruits*



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

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



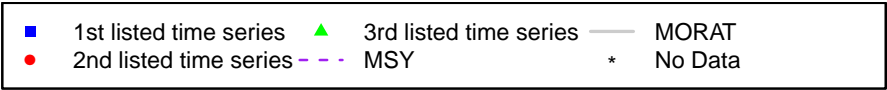
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU34-1986-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	1000	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Kobe MSY*



Kobe MGT*



Spawner Recruit*



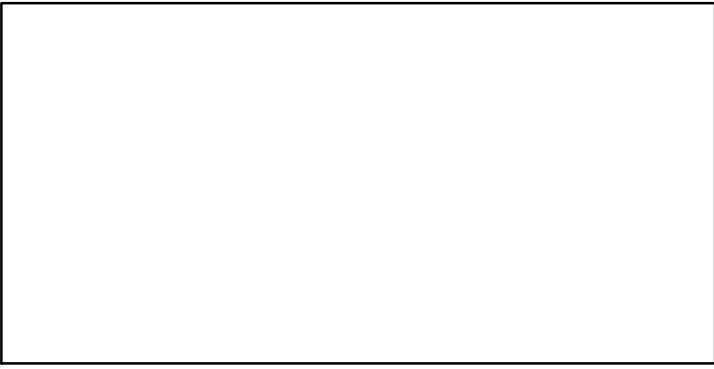
Production*



◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



TN *



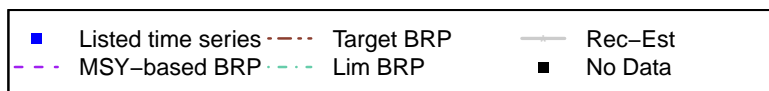
F*



ER*



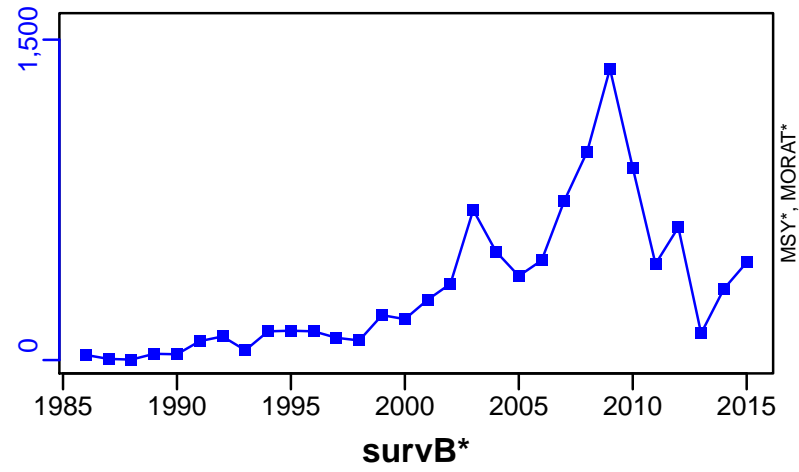
Recruits*



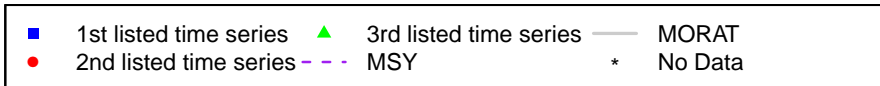
Norway lobster Devil's Hole (FU 34) [NEPHFU34]

TL-MT, TC*, RecC* (1986–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU3-4-1960-2016-ICESIMP2016
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, 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	439		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*



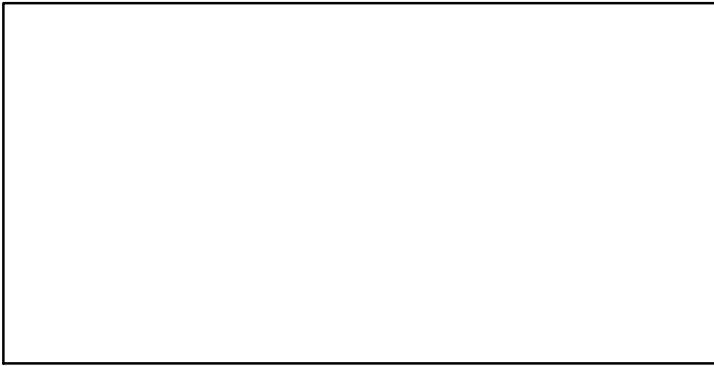
ER*



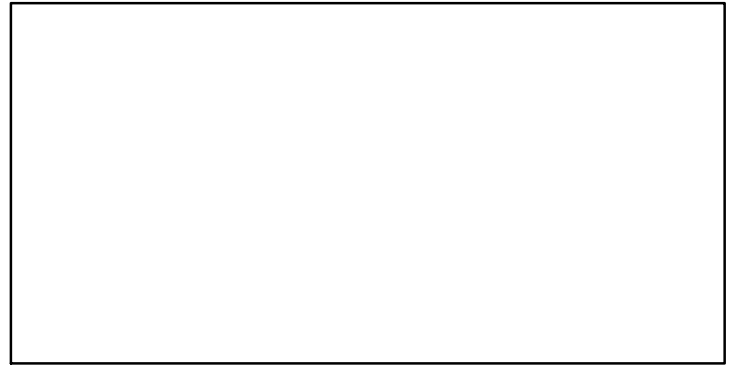
Recruits*



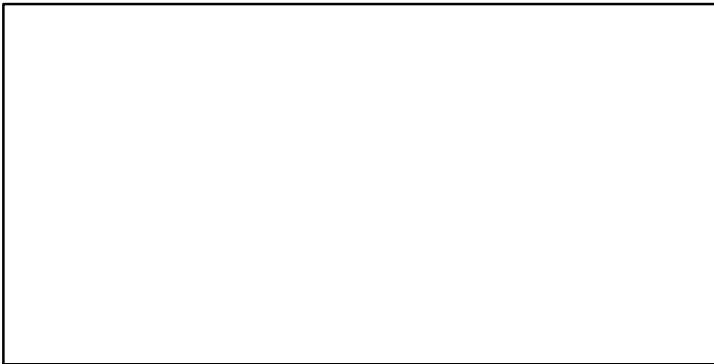
TC*, TL*, RecC*



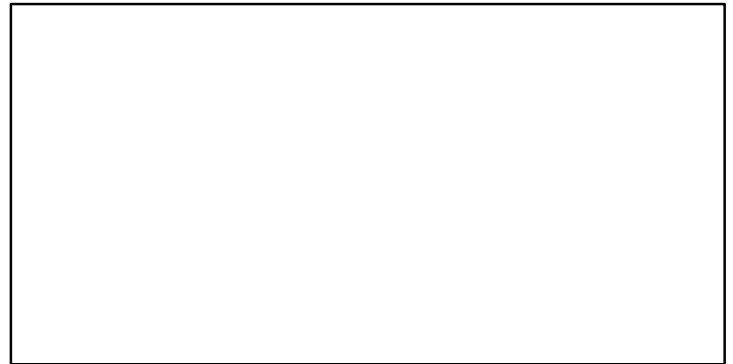
TAC*, Cpair*, Cadv*



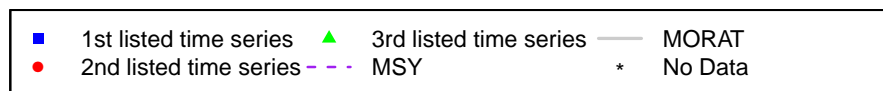
survB*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU5-1991-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	1520	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

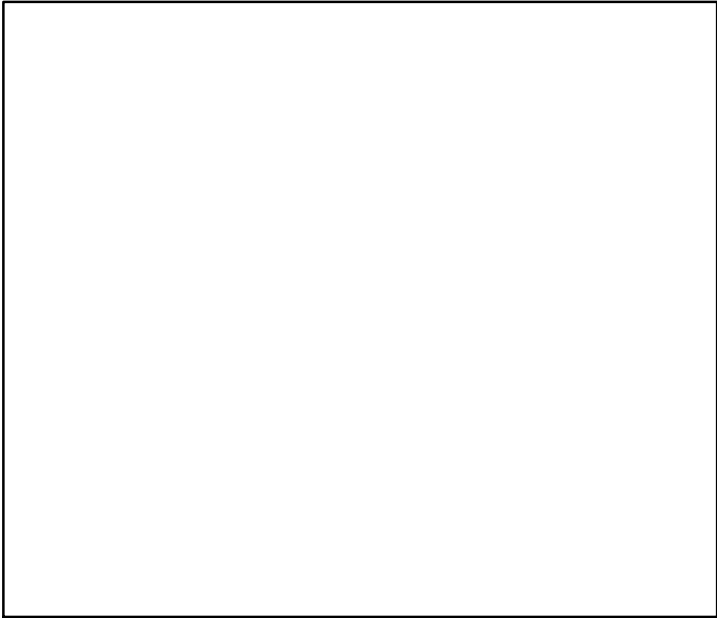
Kobe MSY*



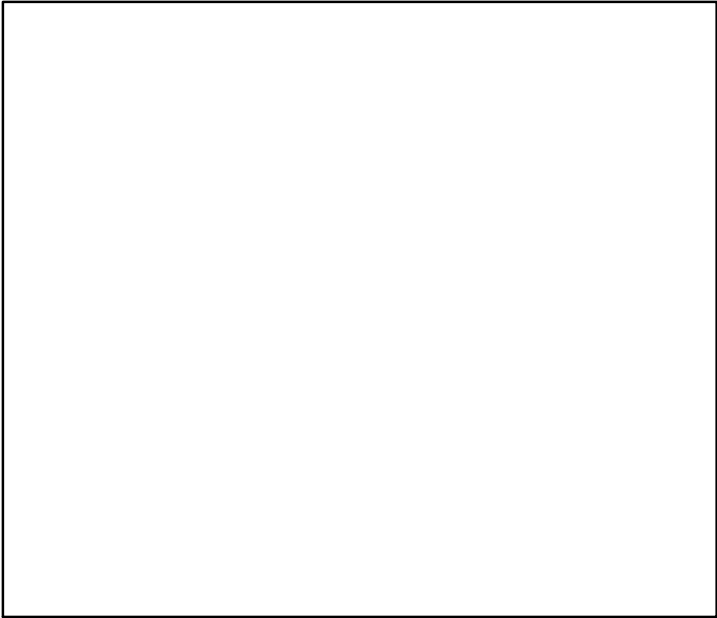
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



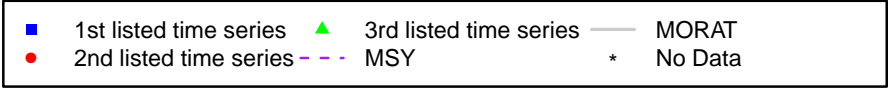
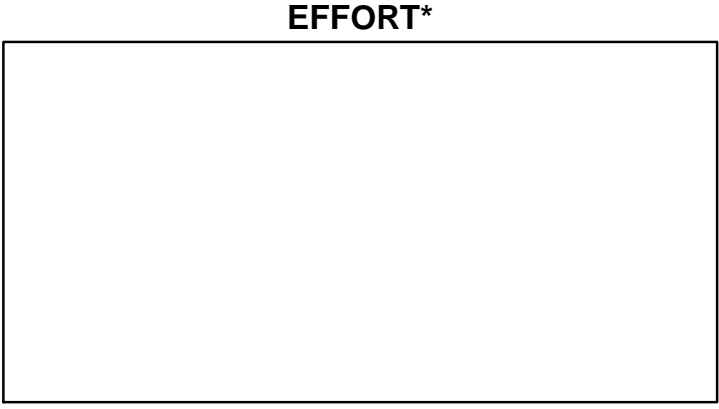
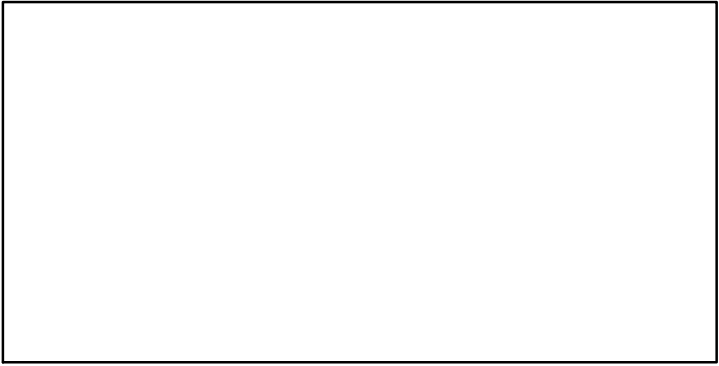
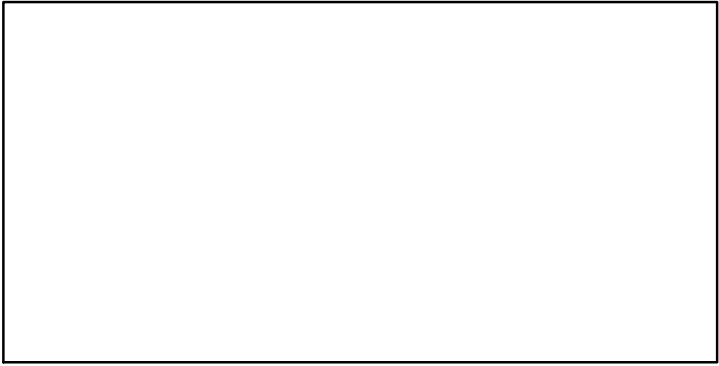
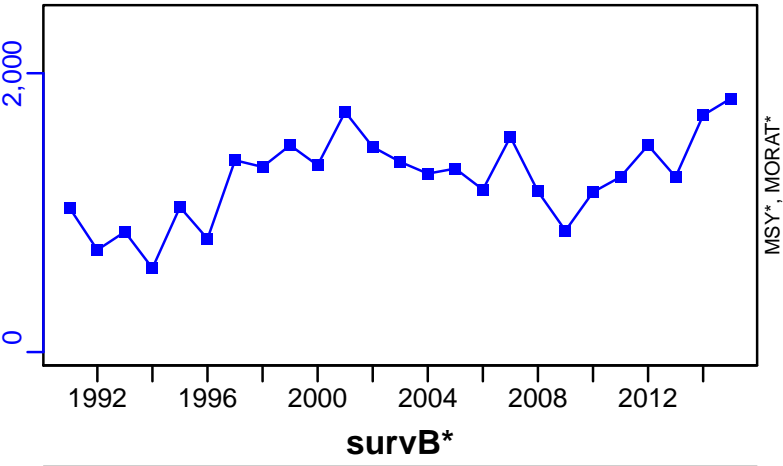
Recruits*



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

TL–MT, TC*, RecC* (1991–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



Norway lobster Farn Deep (FU 6) [NEPHFU6]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU6-1981-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.08
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.08
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	-	-
TC	-	-	-		
TL	TL-MT	2016	1370		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.44		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

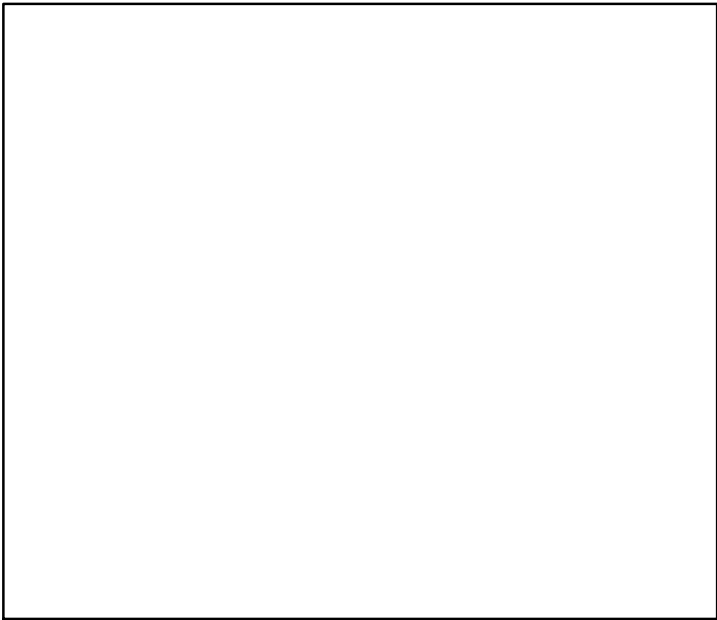
Kobe MSY*



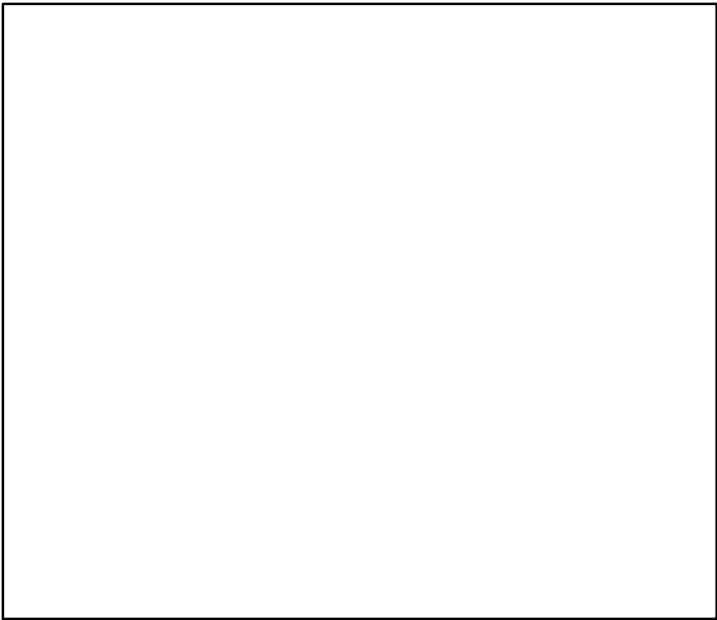
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Farn Deepes (FU 6) [NEPHFU6]

TB*



SSB*



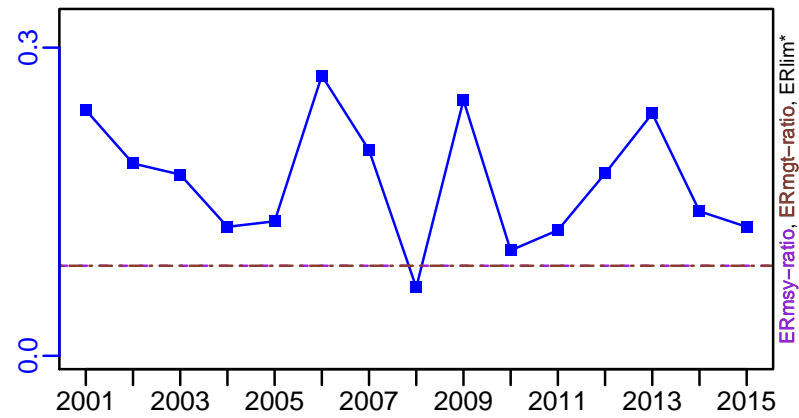
TN *



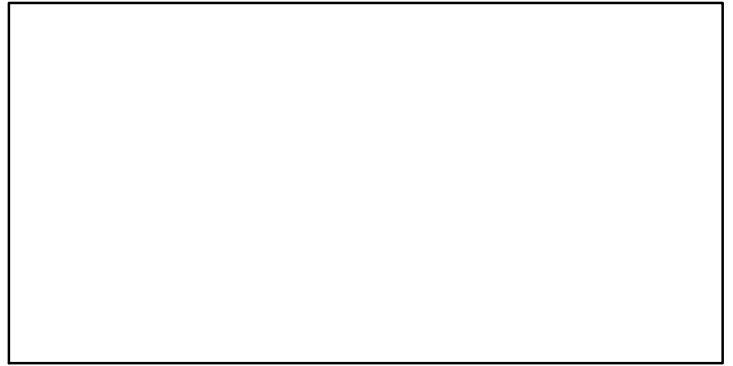
F*



ER-ratio (1981–2016–ICESIMP2016)



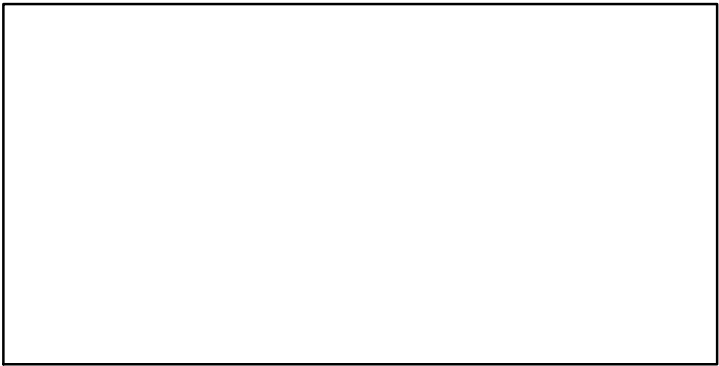
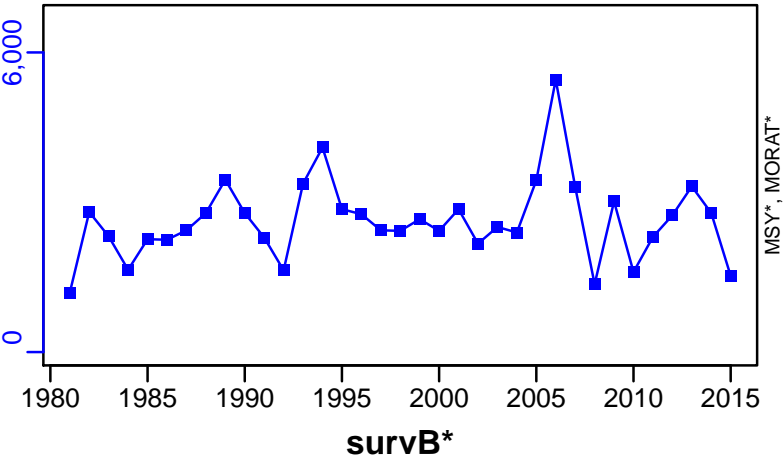
Recruits*



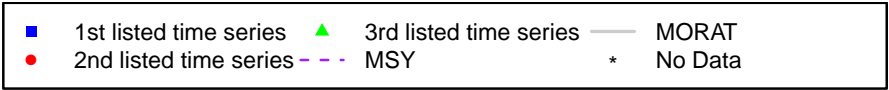
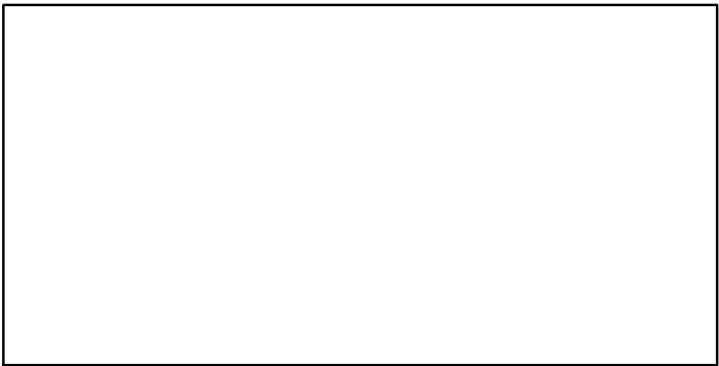
Norway lobster Farn Deeps (FU 6) [NEPHFU6]

TL-MT, TC*, RecC* (1981-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU7-1992-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.08
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.08
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	-	-
TC	-	-	-		
TL	TL-MT	2016	1790		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.27		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

TB*



SSB*



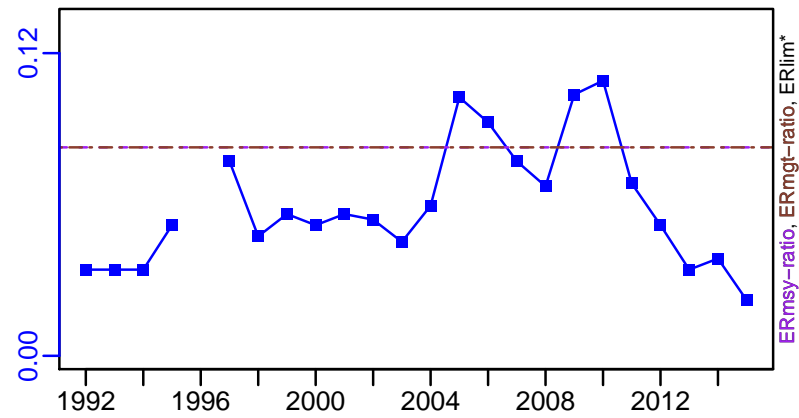
TN *



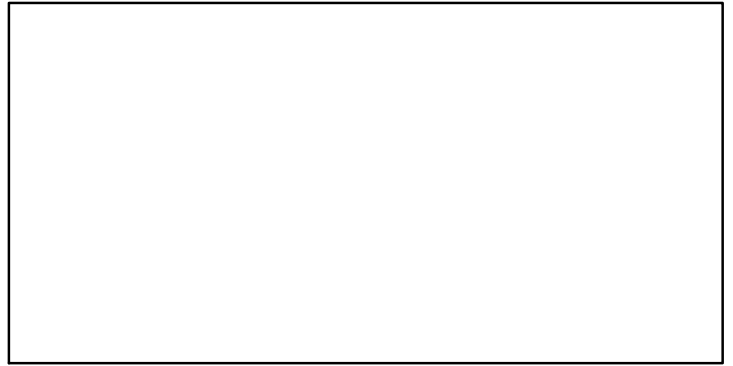
F*



ER-ratio (1992–2016–ICESIMP2016)



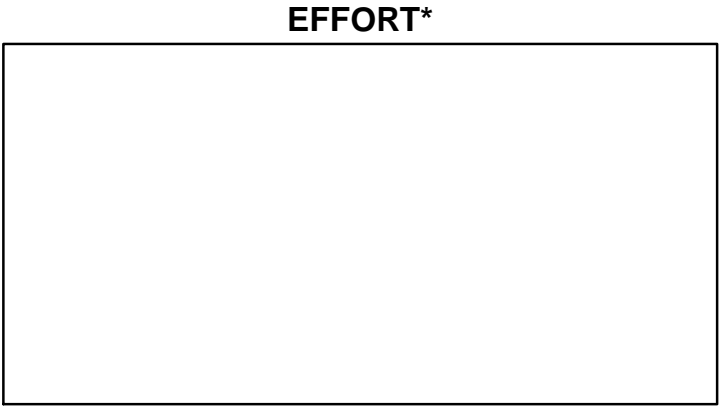
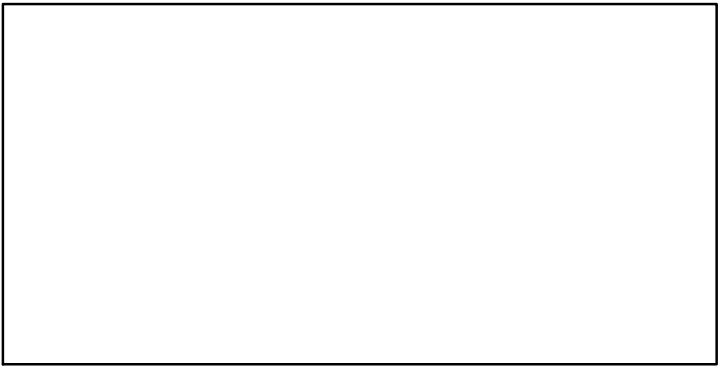
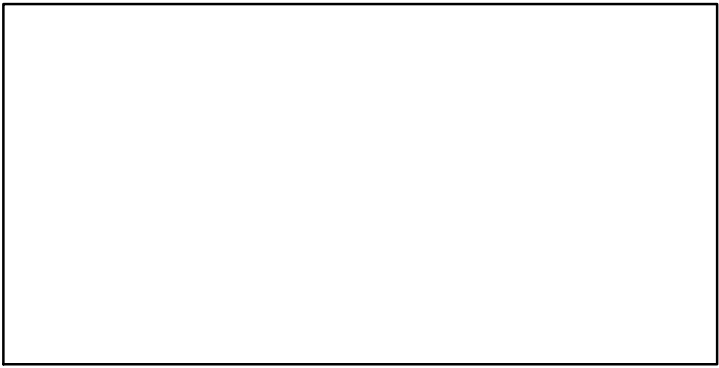
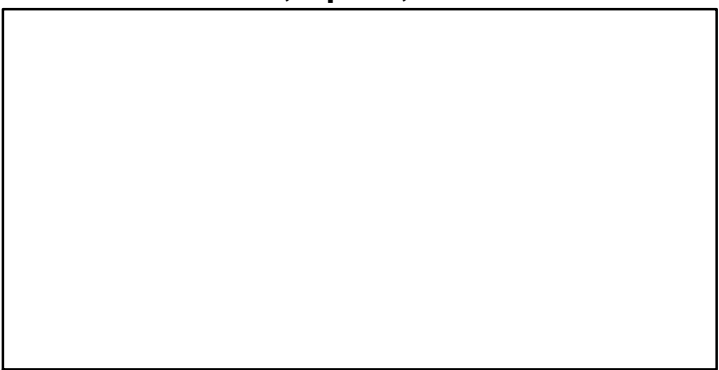
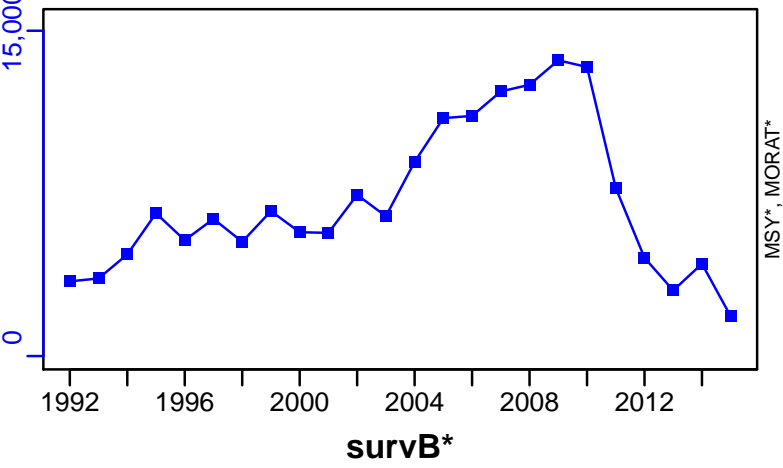
Recruits*



Norway lobster Fladen Ground (FU 7) [NEPHFU7]

TL-MT, TC*, RecC* (1992–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



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

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU8-1993-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.16
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.16
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	-	-
TC	-	-	-		
TL	TL-MT	2016	1890		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	1.03		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

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

TB*



SSB*



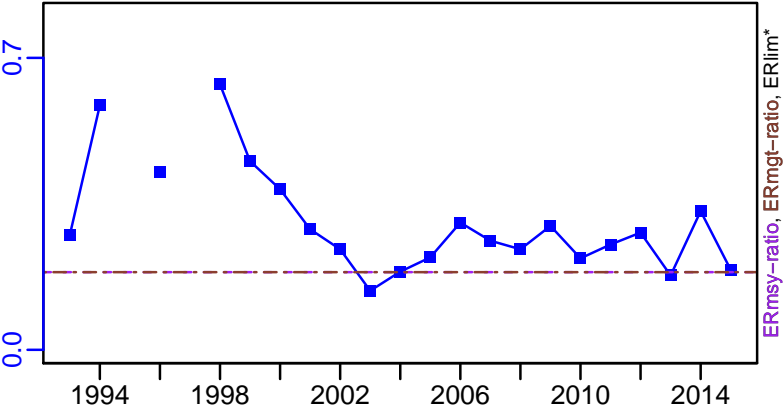
TN *



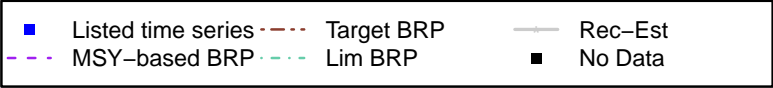
F*



ER-ratio (1993–2016–ICESIMP2016)

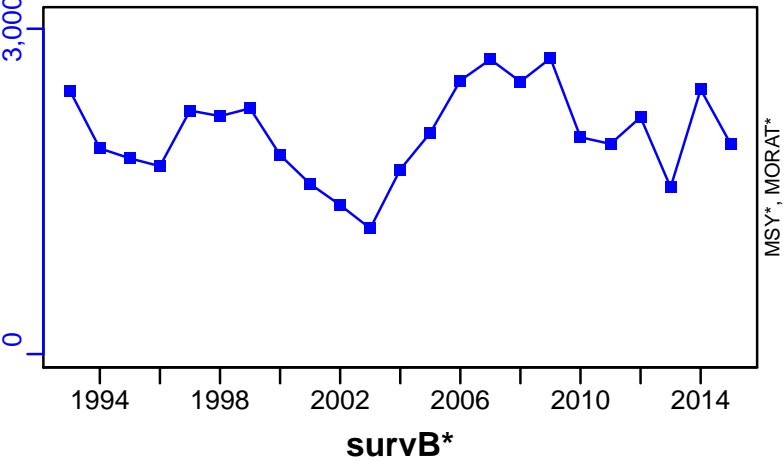


Recruits*



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

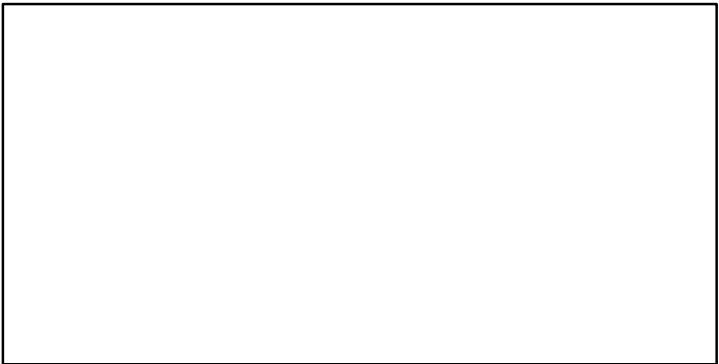
TL-MT, TC*, RecC* (1993-2016-ICESIMP2016)



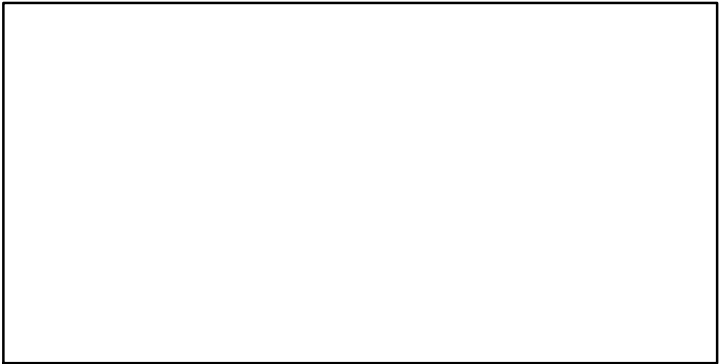
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Norway lobster Moray Firth (FU 9) [NEPHFU9]

Metadata	
Scientific Name	Nephrops norvegicus
Current Assess ID	WGNSSK-NEPHFU9-1993-2016-ICESIMP2016
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

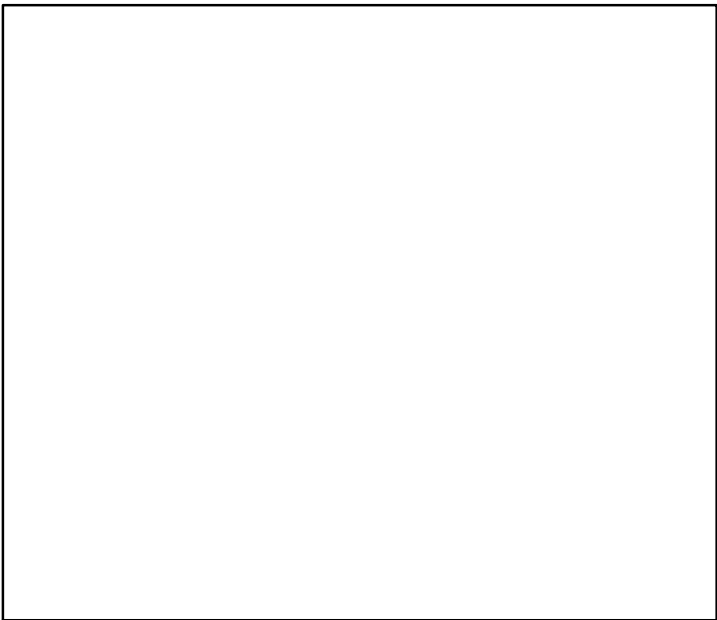
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2016	0.12
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2016	0.12
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	830		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2016	0.77		
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*



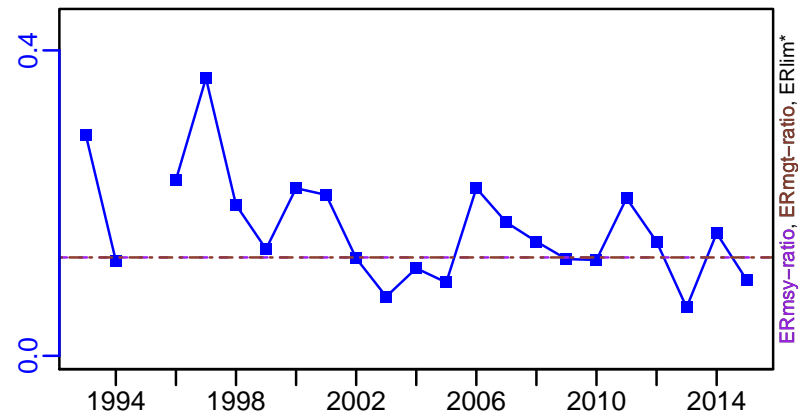
TN *



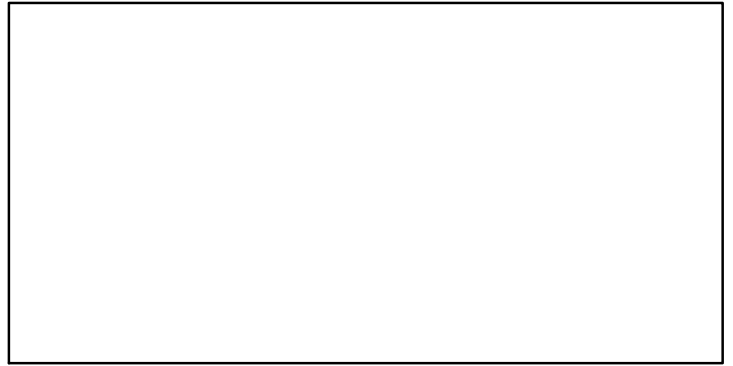
F*



ER-ratio (1993–2016–ICESIMP2016)



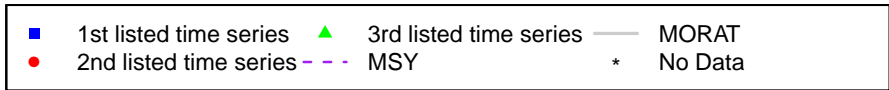
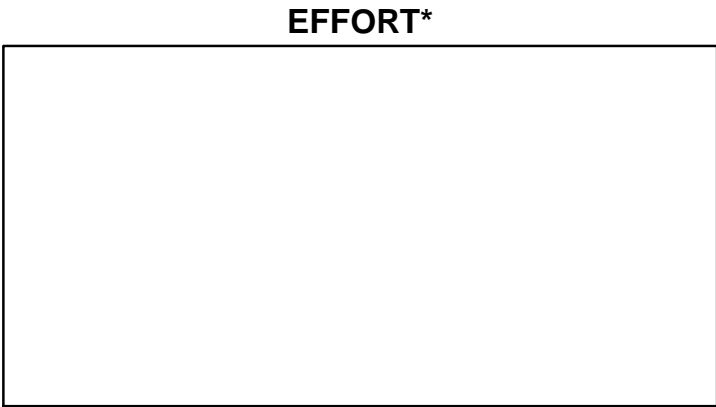
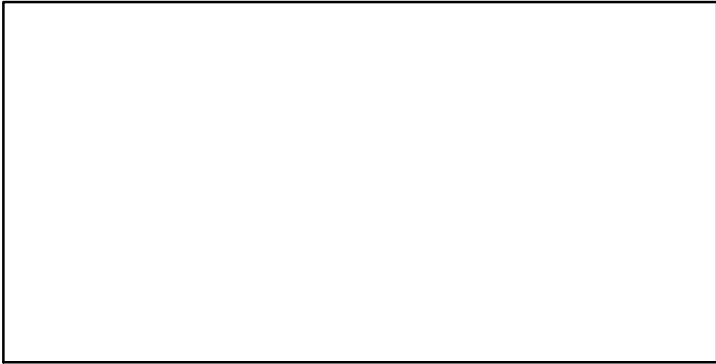
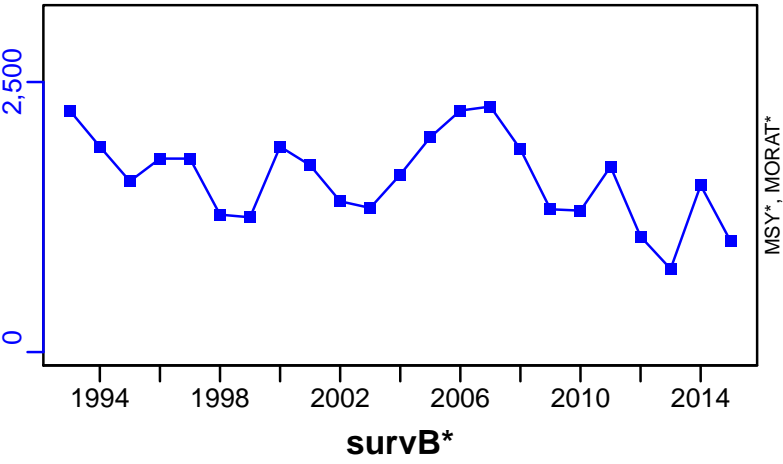
Recruits*



Norway lobster Moray Firth (FU 9) [NEPHFU9]

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

TAC*, Cpair*, Cadv*



Norway pout IIIa and North Sea [NPOUTIIIa-IV]

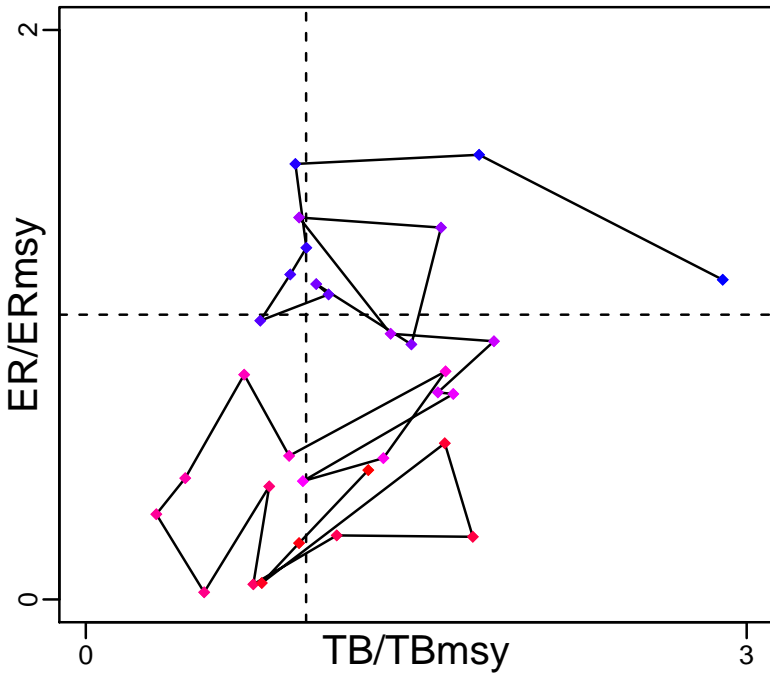
Metadata	
Scientific Name	Trisopterus esmarkii
Current Assess ID	WGNSSK-NPOUTIIIa-IV-1983-2014-ICESIMP2016
Area	IIIa and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	504,069
SSBmsy	SSBmsy-est-MT	2011	546,346
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2014	0.28
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	150,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	140,963
M	-	-	-
TBlim	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2014	90,000
Flim	-	-	-
ERlim	-	-	-

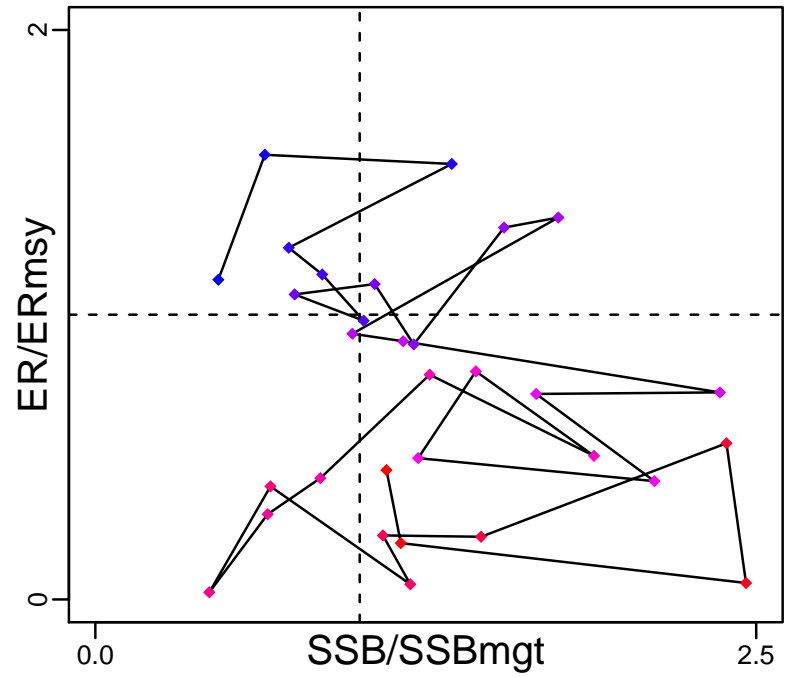
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.28		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2014	0.45		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Norway pout IIIa and North Sea [NPOUTIIIa-IV]

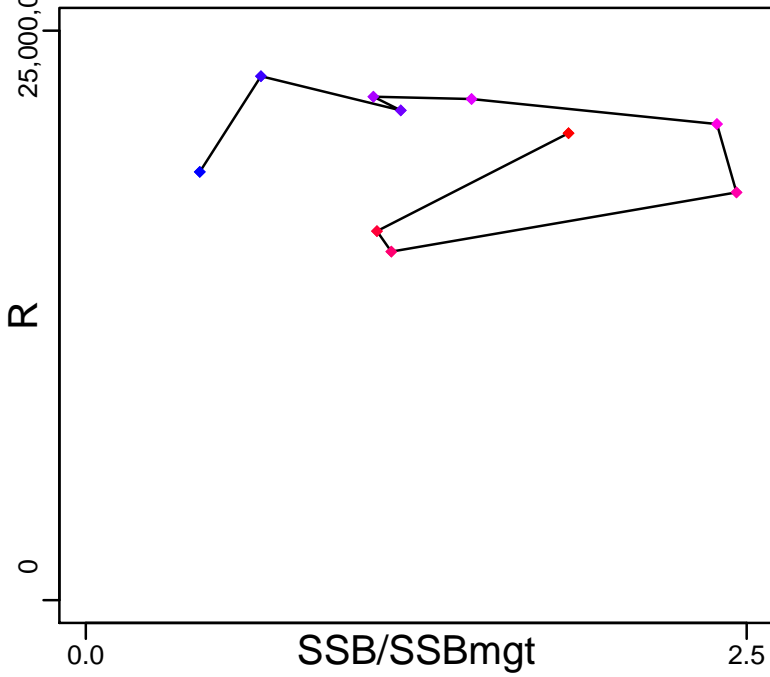
Kobe MSYpref (1983–2014–ICESIMP2016)



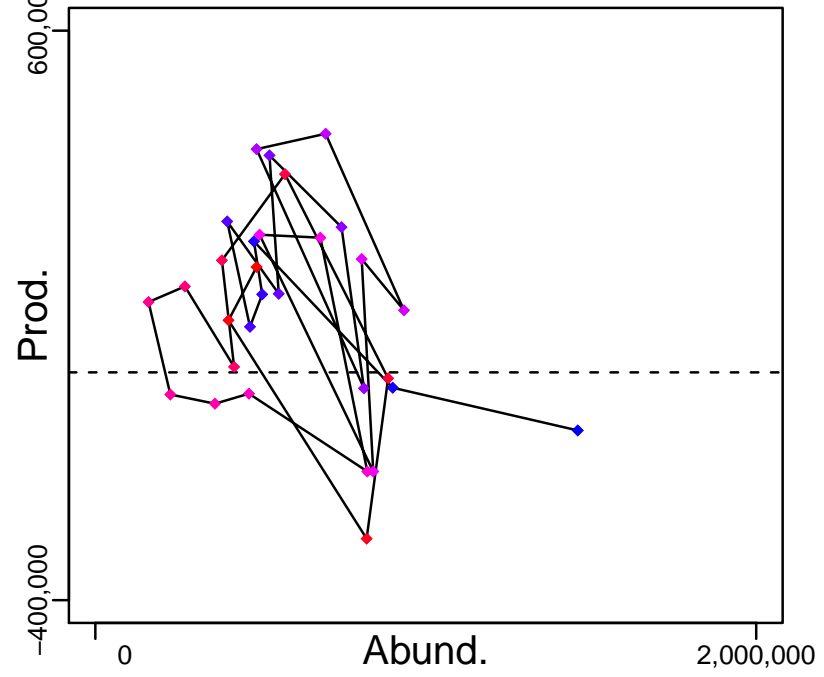
Kobe MGTpref (1983–2014–ICESIMP2016)



Spawner Recruit (1983–2014–ICESIMP2016)



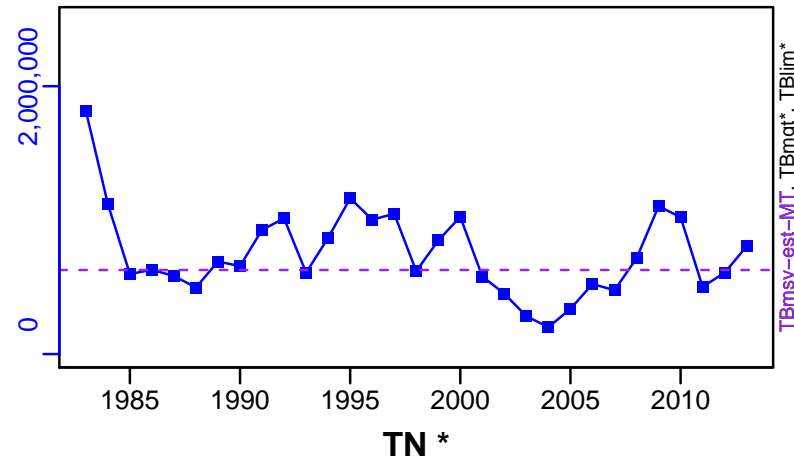
Production (1983–2014–ICESIMP2016)



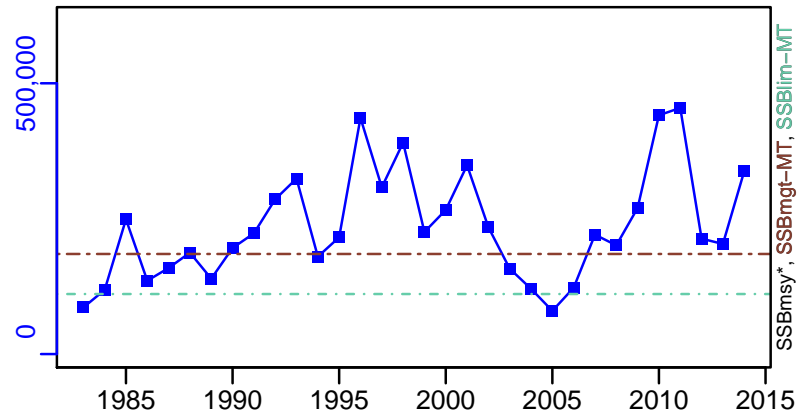
◆ Start Year ◆ End Year * No Data

Norway pout IIIa and North Sea [NPOUTIIIa-IV]

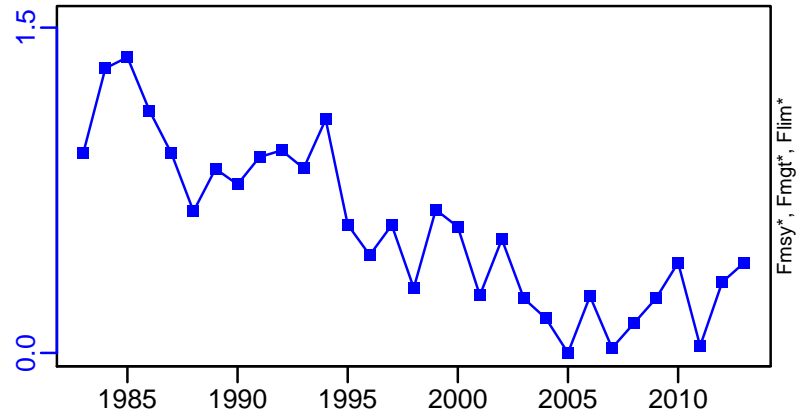
TB-MT (1983–2014–ICESIMP2016)



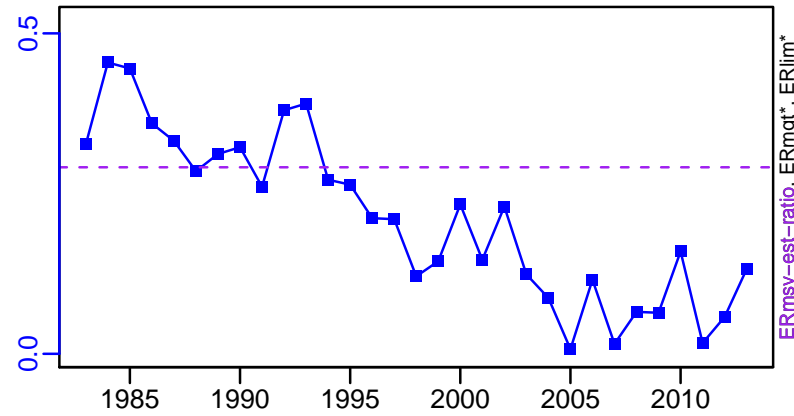
SSB-MT (1983–2014–ICESIMP2016)



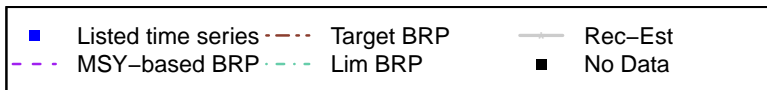
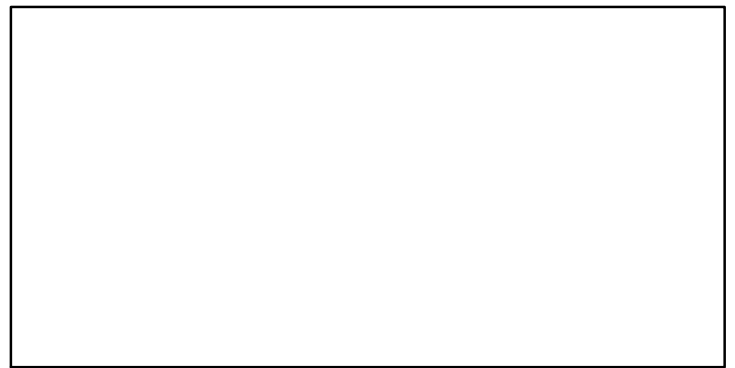
F-1/yr (1983–2014–ICESIMP2016)



ER-calc-ratio (1983–2014–ICESIMP2016)



Recruits*



Norway pout IIIa and North Sea [NPOUTIIIa-IV]

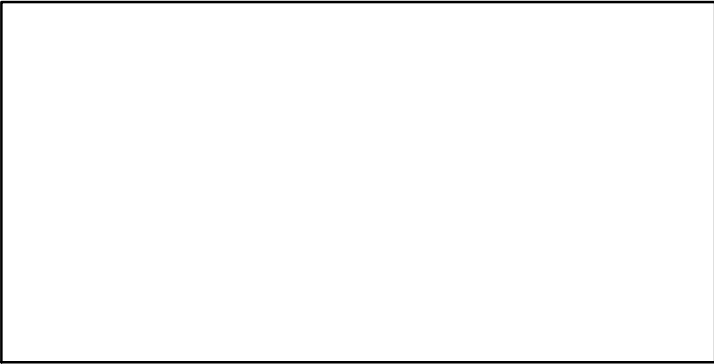
TC*, TL*, RecC*



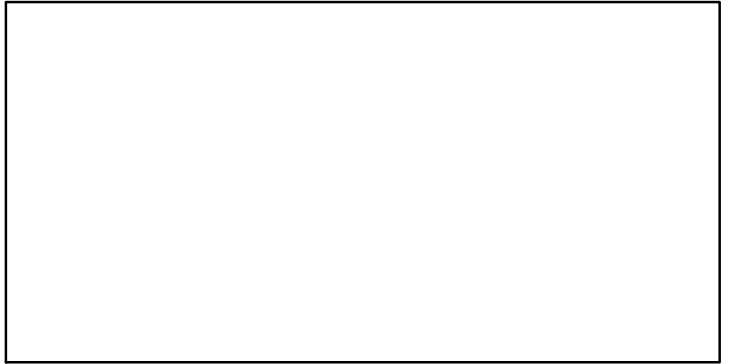
TAC*, Cpair*, Cadv*



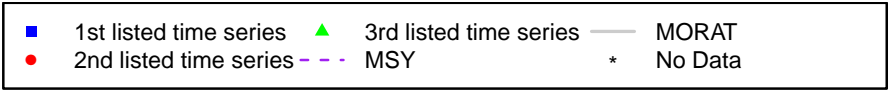
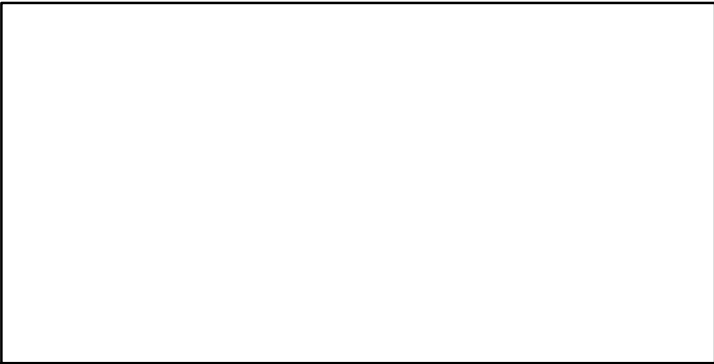
survB*



CPUE*



EFFORT*



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*

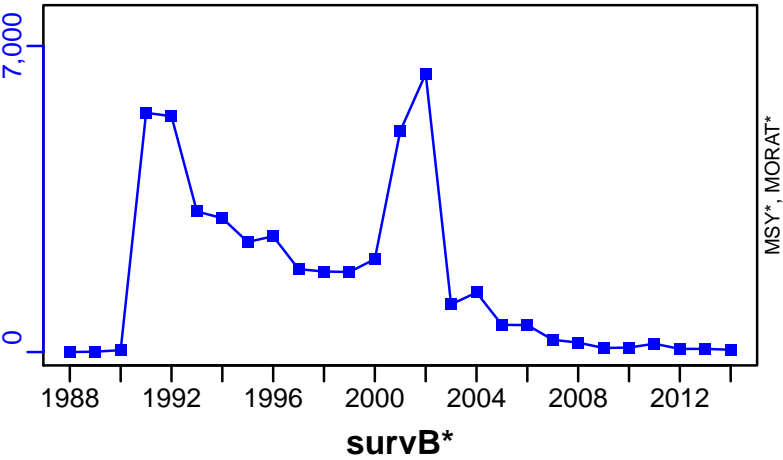


Recruits*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

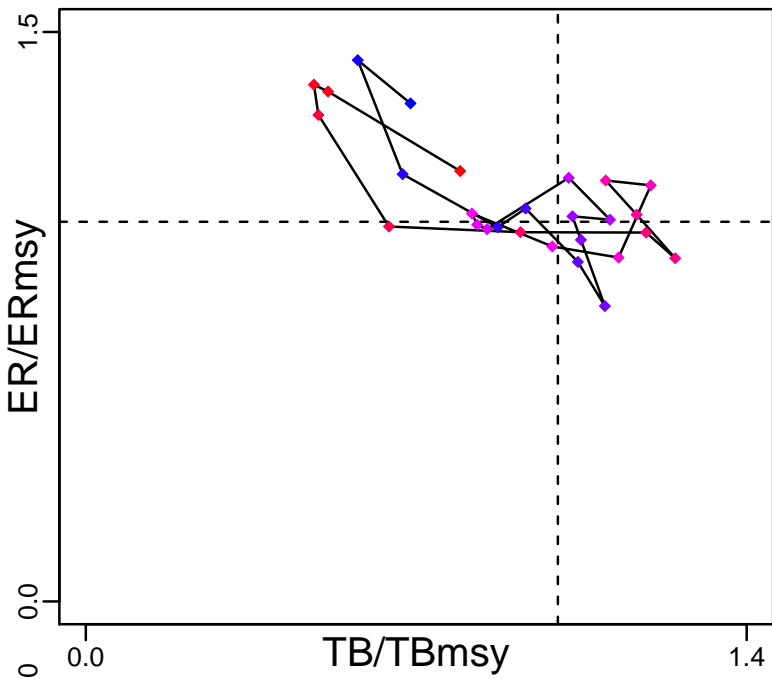
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIIIaW-IVaE-1988-2015-ICESIMP2016
Area	IIIa (west) and IVa (east)
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2013, 2014,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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	37,096
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.62
ERmsy	ERmsy-est-ratio	2015	0.36
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	9900
Fmgt	Fmgt-1/yr	2015	0.62
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2015	13,499
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	6300
Flim	Flim-1/yr	2015	1
ERlim	-	-	-

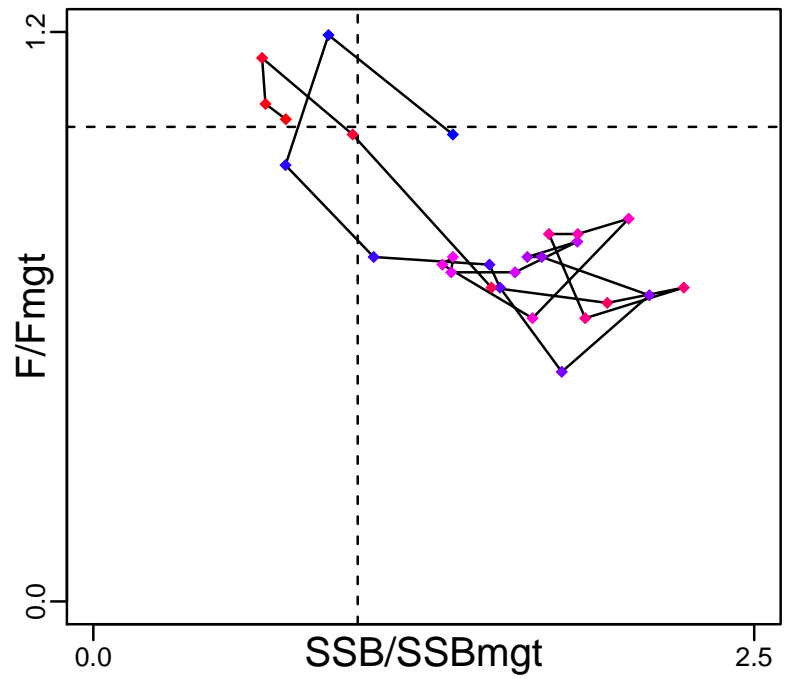
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.79		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	1.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

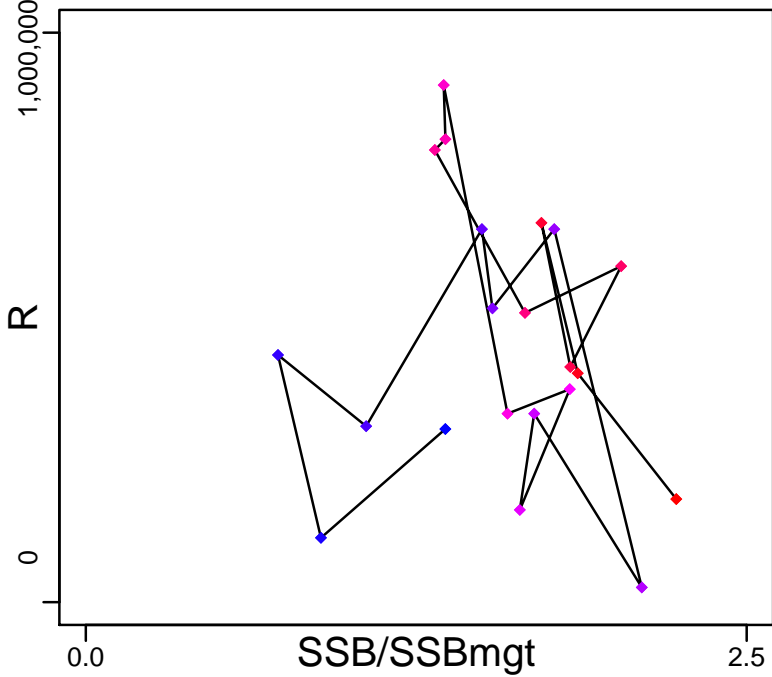
Kobe MSYpref (1988–2015–ICESIMP2016)



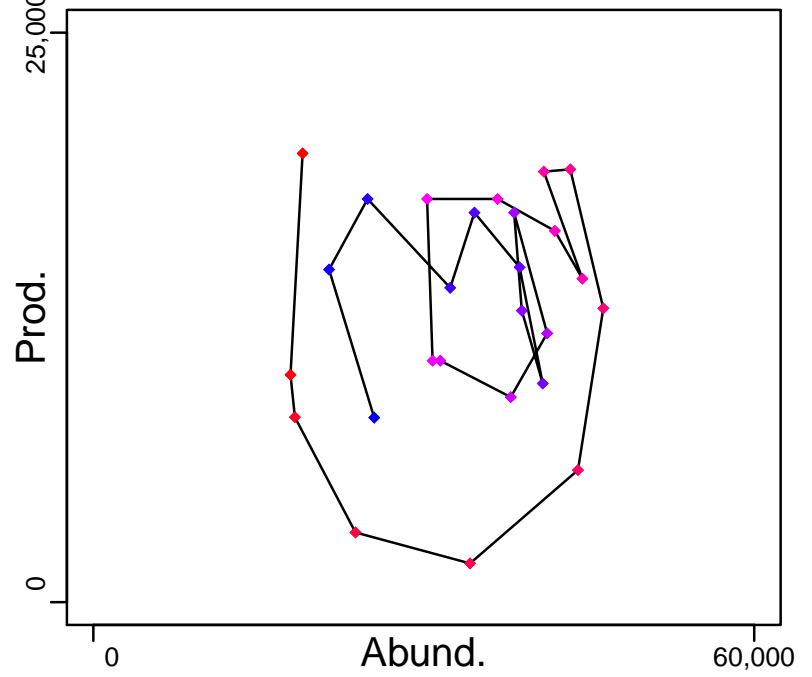
Kobe MGTpref (1988–2015–ICESIMP2016)



Spawner Recruit (1988–2015–ICESIMP2016)



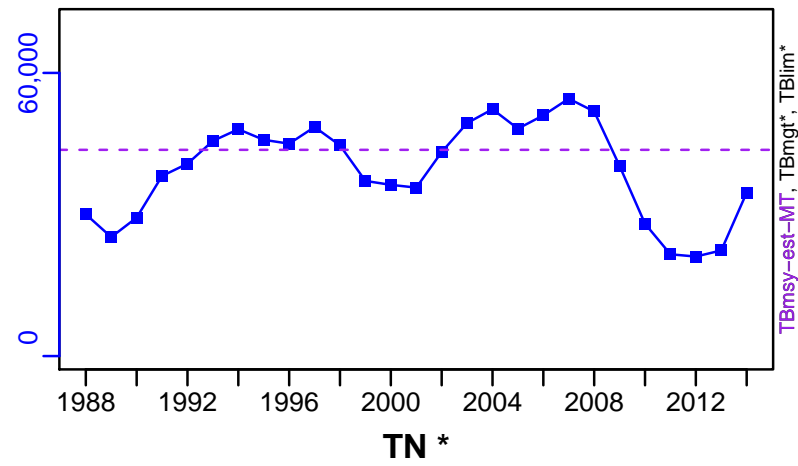
Production (1988–2015–ICESIMP2016)



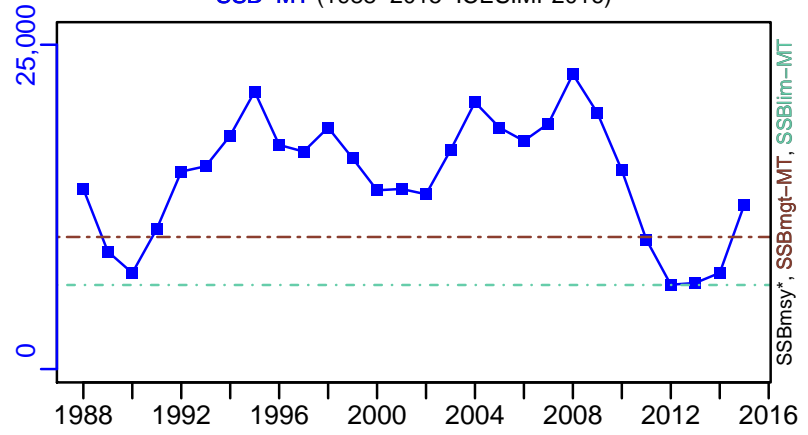
◆ Start Year ◆ End Year * No Data

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

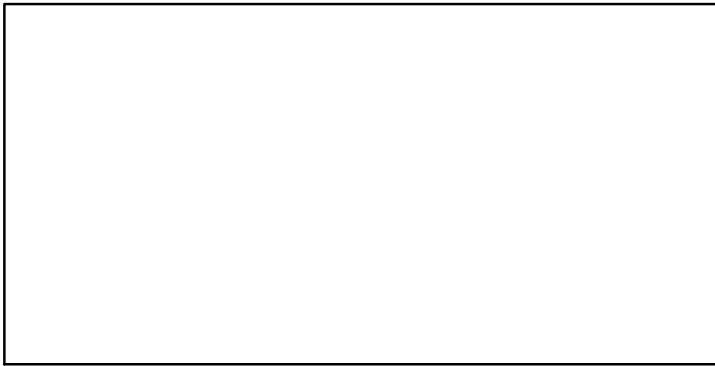
TB-MT (1988–2015–ICESIMP2016)



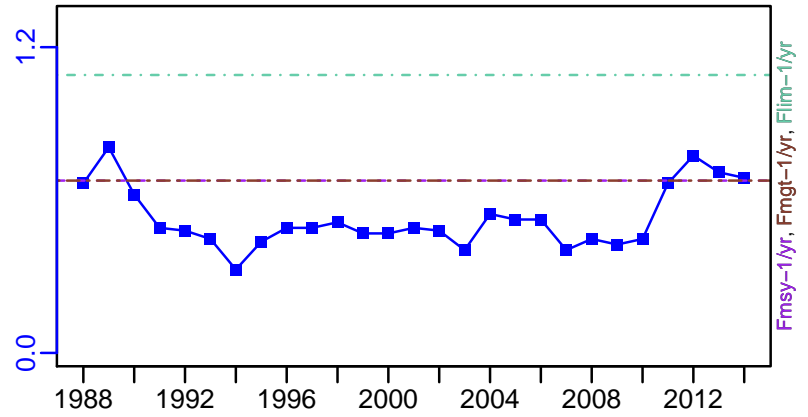
SSB-MT (1988–2015–ICESIMP2016)



TN *



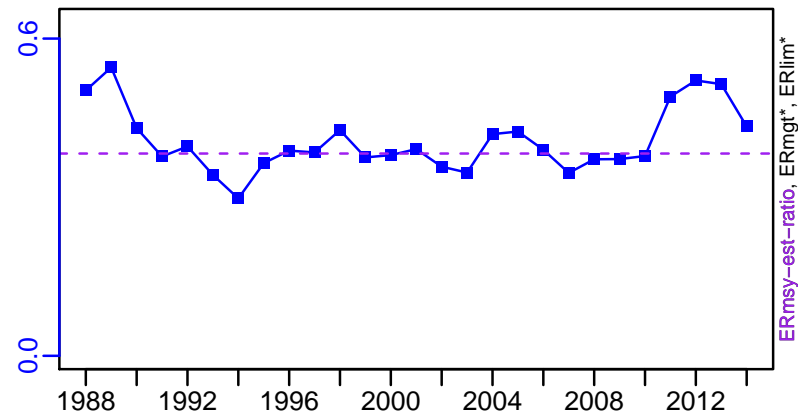
F-1/yr (1988–2015–ICESIMP2016)



Recruits*



ER-calc-ratio (1988–2015–ICESIMP2016)



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



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

Northern shrimp Northern North Sea [PANDALIVa]

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

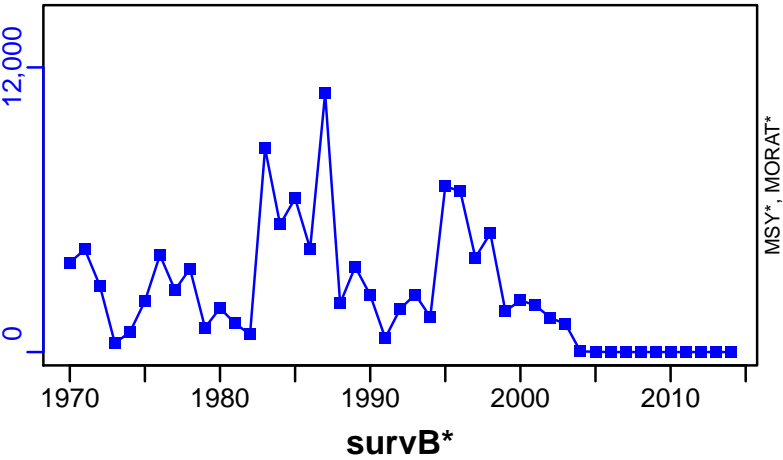


Recruits*



Northern shrimp Northern North Sea [PANDALIVa]

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



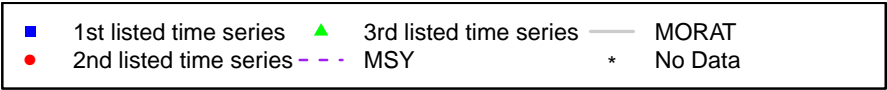
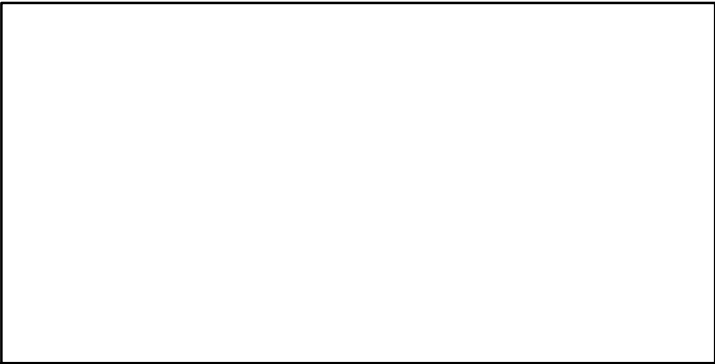
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European Plaice Subdivisions 21-23 [PLAIC2123]

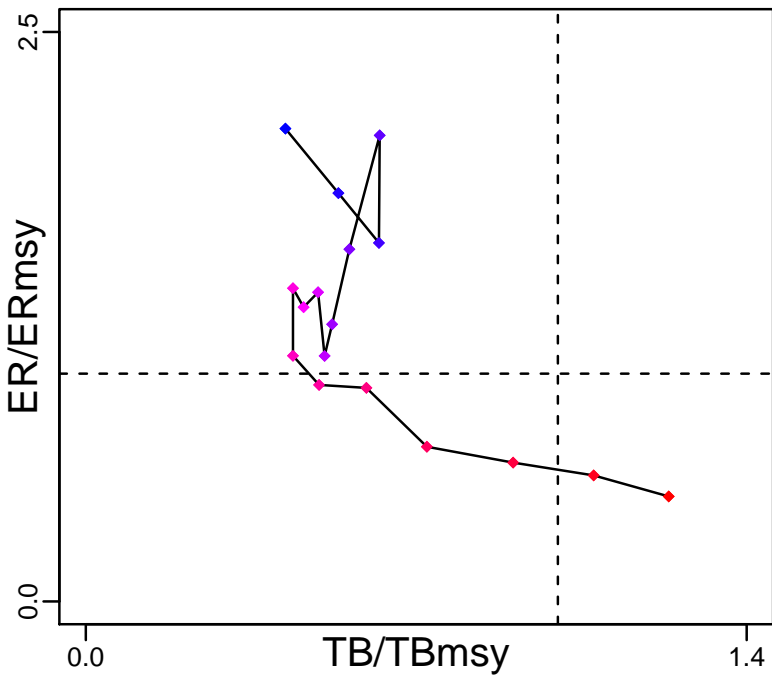
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2123-1998-2016-ICESIMP2016
Area	Subdivisions 21-23
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	15,475
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.37
ERmsy	ERmsy-est-ratio	2016	0.42
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	5553
Fmgt	Fmgt-1/yr	2016	0.37
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	6513
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	4077
Flim	Flim-1/yr	2016	1.01
ERlim	-	-	-

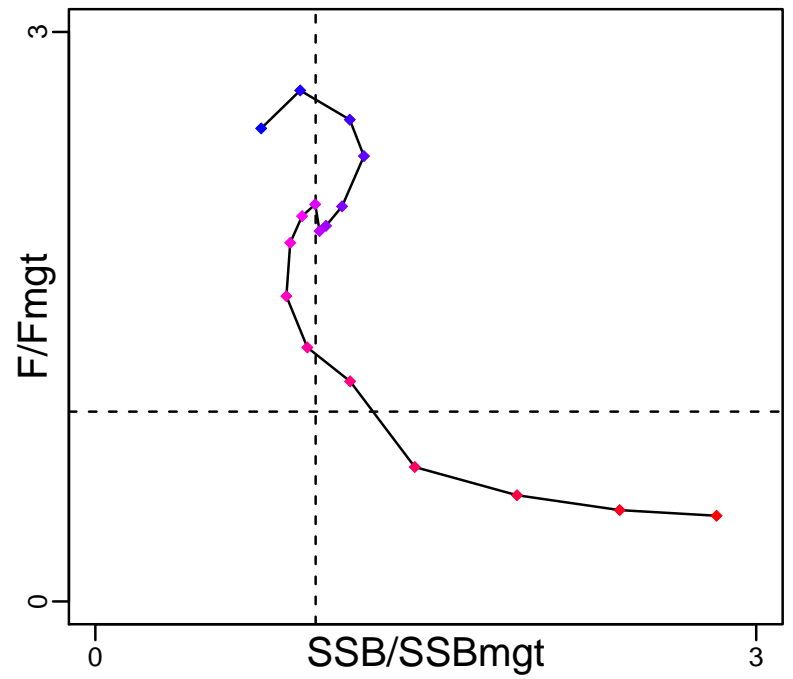
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	19,100	-	-
SSB	SSB-MT	2016	17,900	-	-
TN	-	-	-	-	-
R	R-E00	2016	3.4×10^7	-	1
F	F-1/yr	2016	0	-	3 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	3710		
TL	TL-MT	2016	2690		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.23		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.45		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.46		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	3.22		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.45		
ER/ERmgt	-	-	-		

European Plaice Subdivisions 21–23 [PLAIC2123]

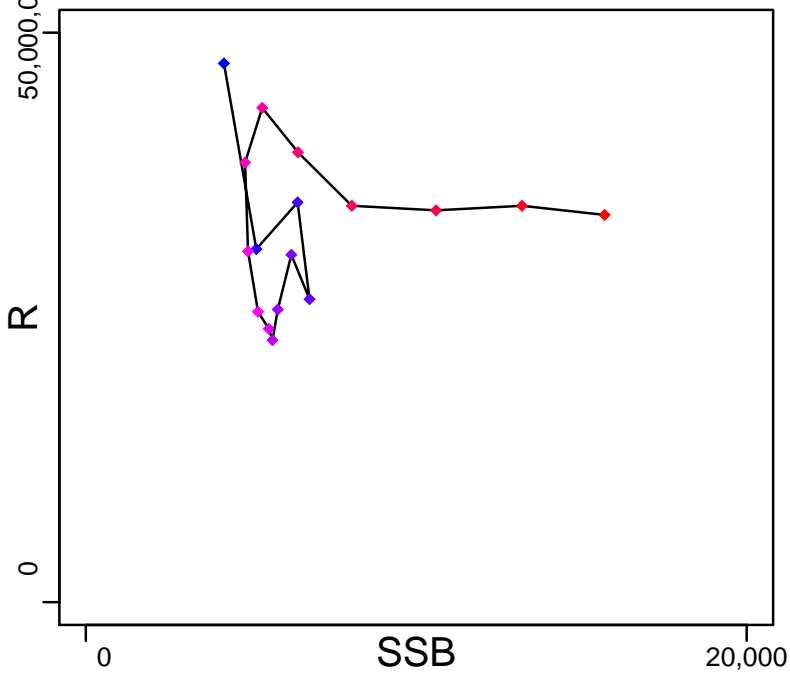
Kobe MSYpref (1998–2016–ICESIMP2016)



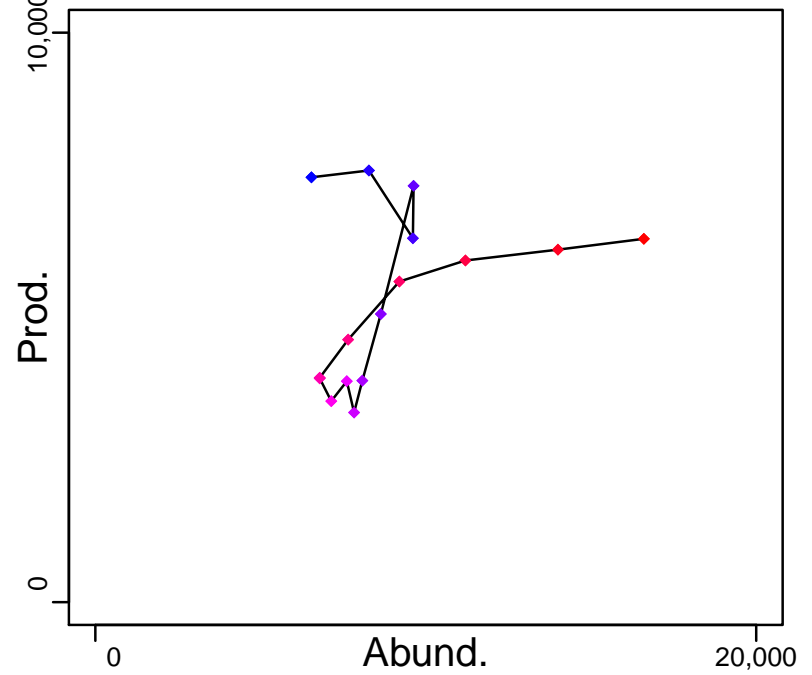
Kobe MGTpref (1998–2016–ICESIMP2016)



Spawner Recruit (1998–2016–ICESIMP2016)



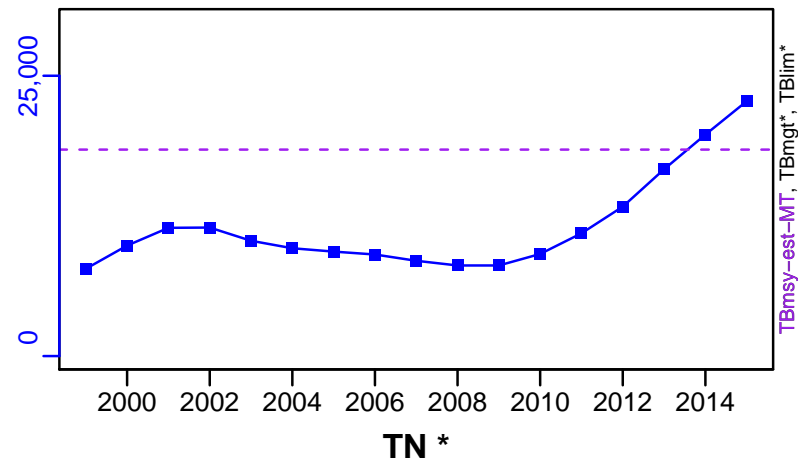
Production (1998–2016–ICESIMP2016)



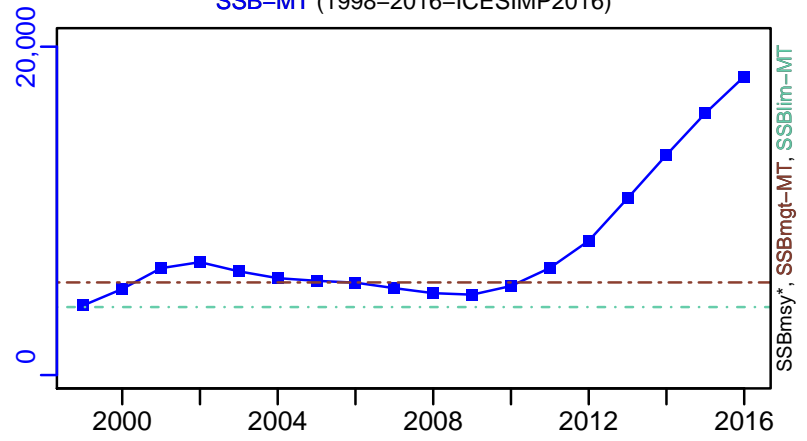
◆ Start Year ◆ End Year * No Data

European Plaice Subdivisions 21–23 [PLAIC2123]

TB-MT (1998–2016–ICESIMP2016)



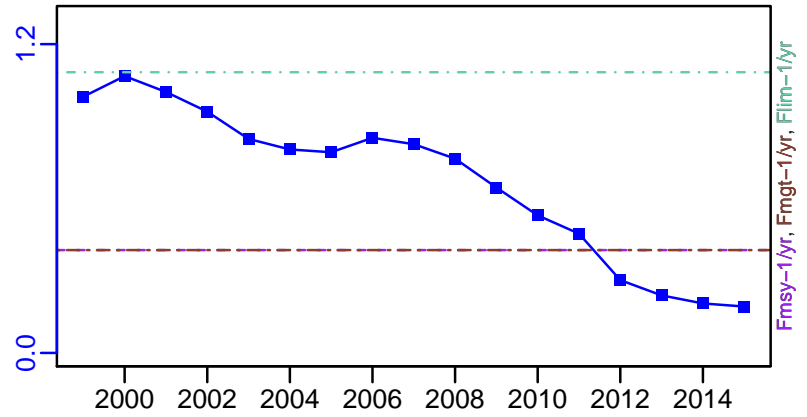
SSB-MT (1998–2016–ICESIMP2016)



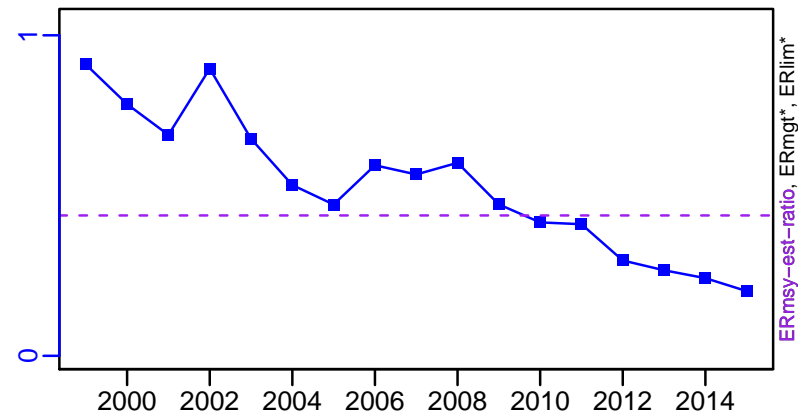
TN *



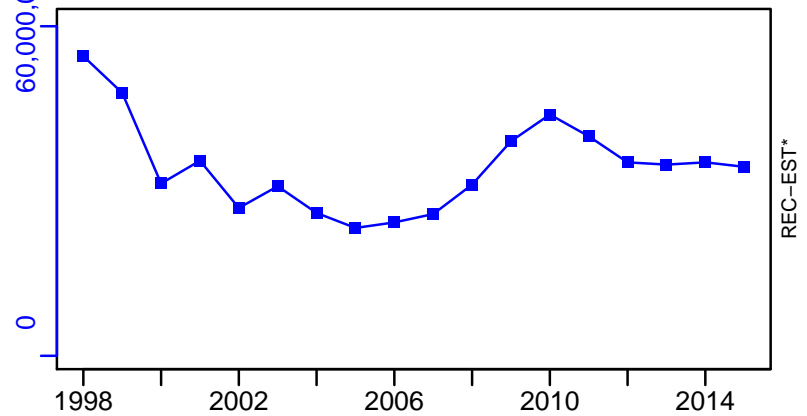
F-1/yr (1998–2016–ICESIMP2016)



ER-calc-ratio (1998–2016–ICESIMP2016)

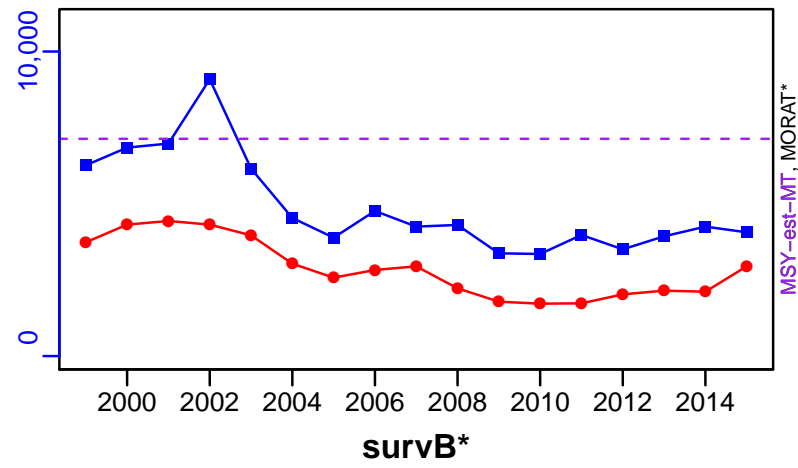


R-E00 (1998–2016–ICESIMP2016)



European Plaice Subdivisions 21–23 [PLAIC2123]

TC-MT, TL-MT, RecC* (1998–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European Plaice Subdivisions 24-32 [PLAIC2432]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBFAS-PLAIC2432-2001-2015-ICESIMP2016
Area	Subdivisions 24-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries 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	SSB-relative	2015	2	-	-
TN	-	-	-	-	-
R	R-relative	2015	2	-	1
F	F-relative	2015	1	-	2 to 5
ER	-	-	-	-	-
TC	TC-MT	2015	1010		
TL	TL-MT	2015	534		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

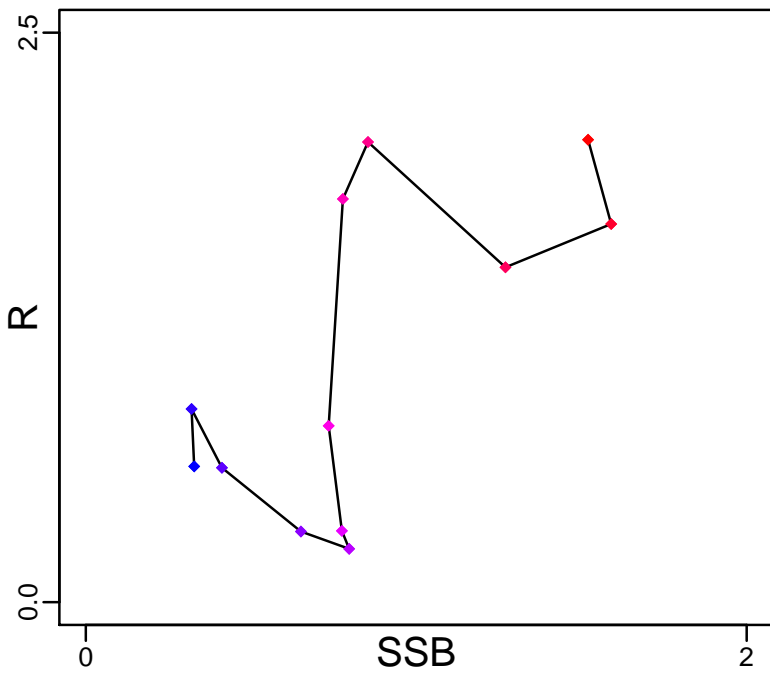
Kobe MSY*



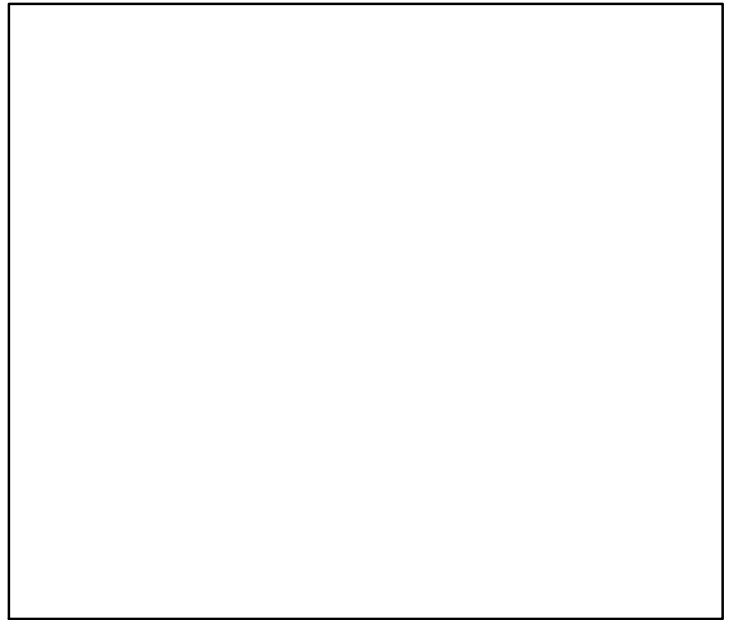
Kobe MGT*



Spawner Recruit (2001–2015–ICESIMP2016)



Production*



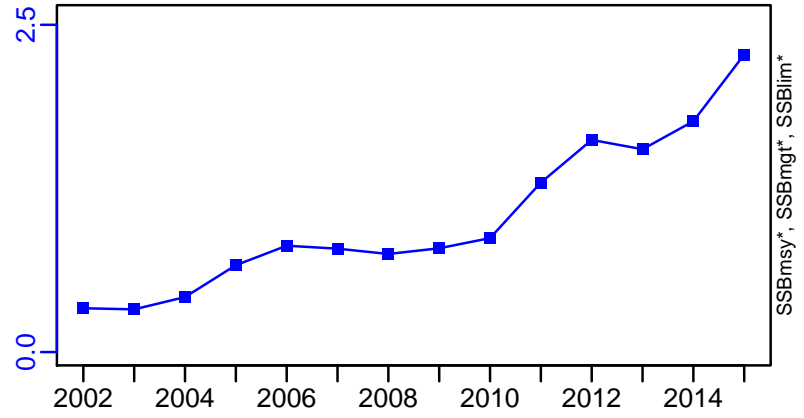
◆ Start Year ◆ End Year * No Data

European Plaice Subdivisions 24–32 [PLAIC2432]

TB*



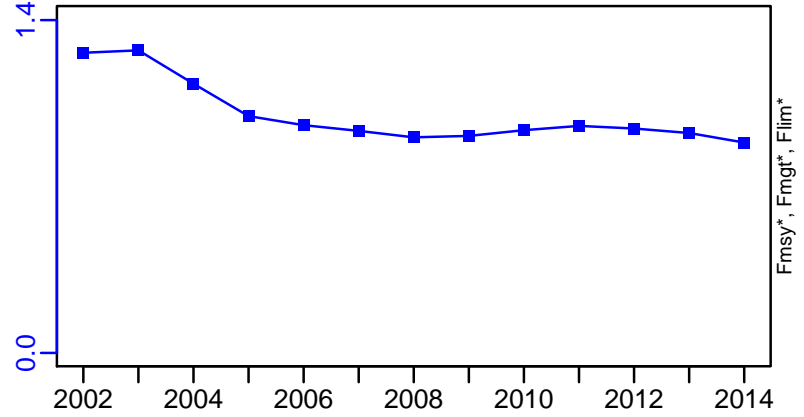
SSB-relative (2001–2015–ICESIMP2016)



TN *



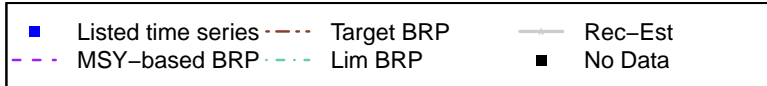
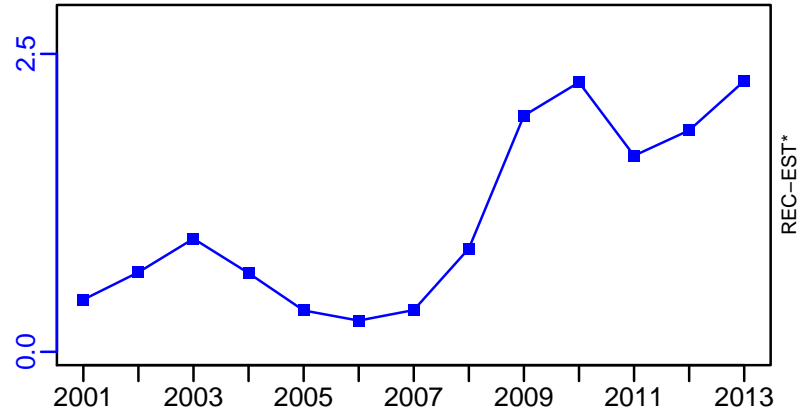
F-relative (2001–2015–ICESIMP2016)



ER*

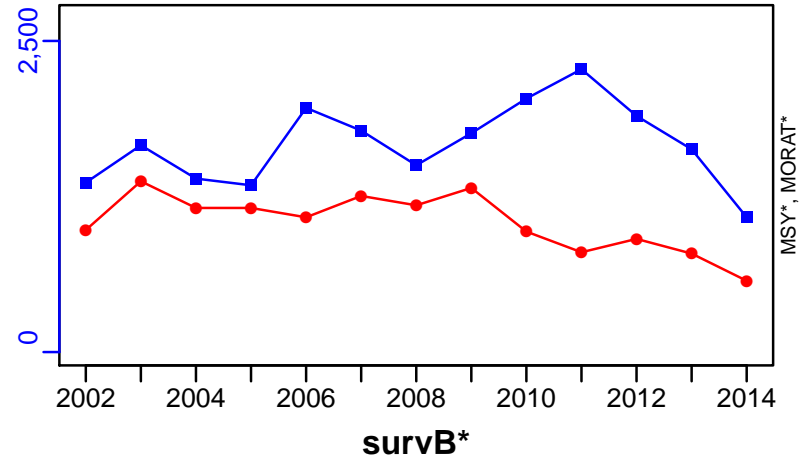


R-relative (2001–2015–ICESIMP2016)



European Plaice Subdivisions 24–32 [PLAIC2432]

TC–MT, TL–MT, RecC* (2001–2015–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

European Plaice ICES VIlId [PLAIC7d]

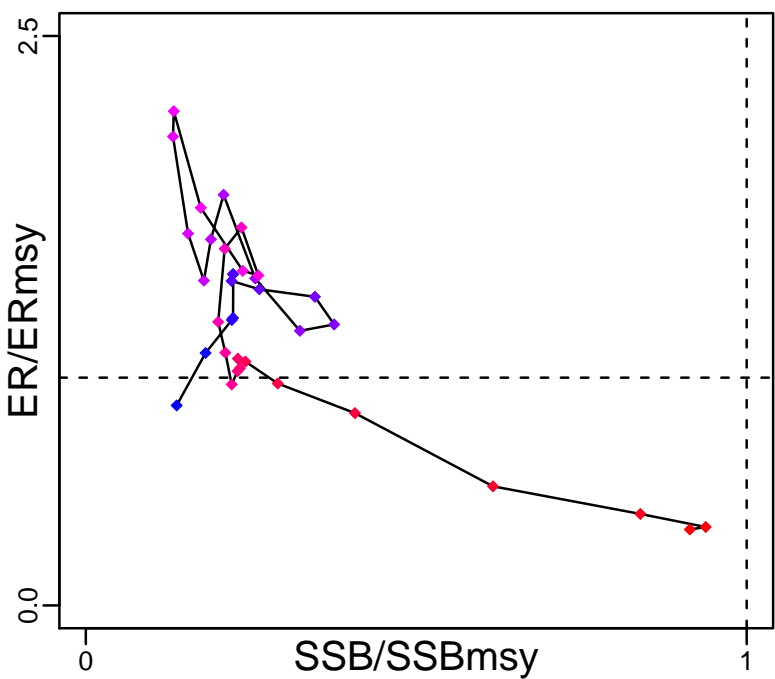
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAIC7d-1979-2016-ICESIMP2016
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2010	15,149
SSBmsy	SSBmsy-est-MT	2016	59,498
Fmsy	Fmsy-1/yr	2016	0.25
ERmsy	ERmsy-est-ratio	2016	0.22
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	25,826
Fmgt	Fmgt-1/yr	2016	0.25
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	18,991
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	18,448
Flim	Flim-1/yr	2016	0.5
ERlim	-	-	-

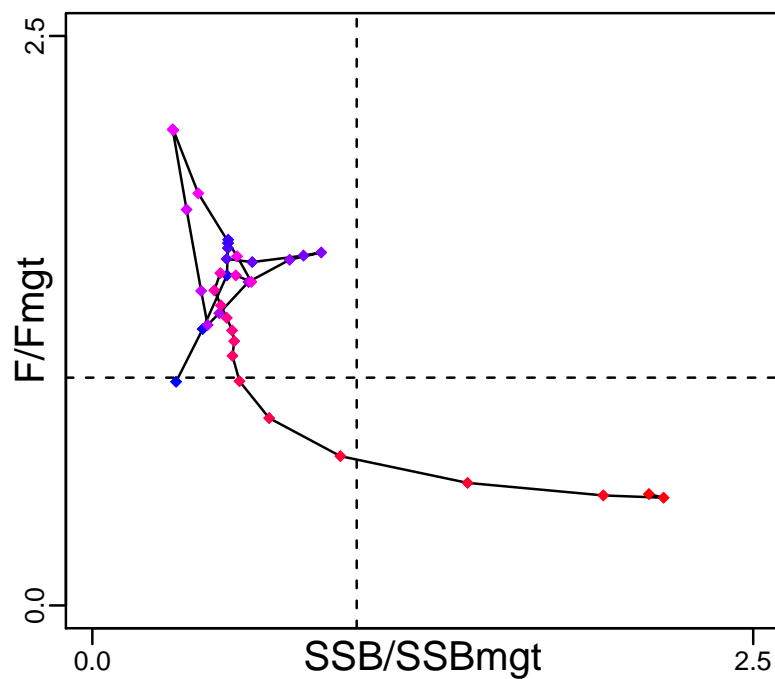
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	9230	-	1+
SSB	SSB-MT	2016	63,500	-	-
TN	-	-	-	-	-
R	R-E00	2016	1.55×10^8	-	1
F	F-1/yr	2016	0	-	3 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	5790		
TL	TL-MT	2016	3250		
TB/TBmsy	TB-MT/TBmsy-est-MT	2010	0.61		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	1.07		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.49		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.33		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	2.46		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.49		
ER/ERmgt	-	-	-		

European Plaice ICES VIId [PLAIC7d]

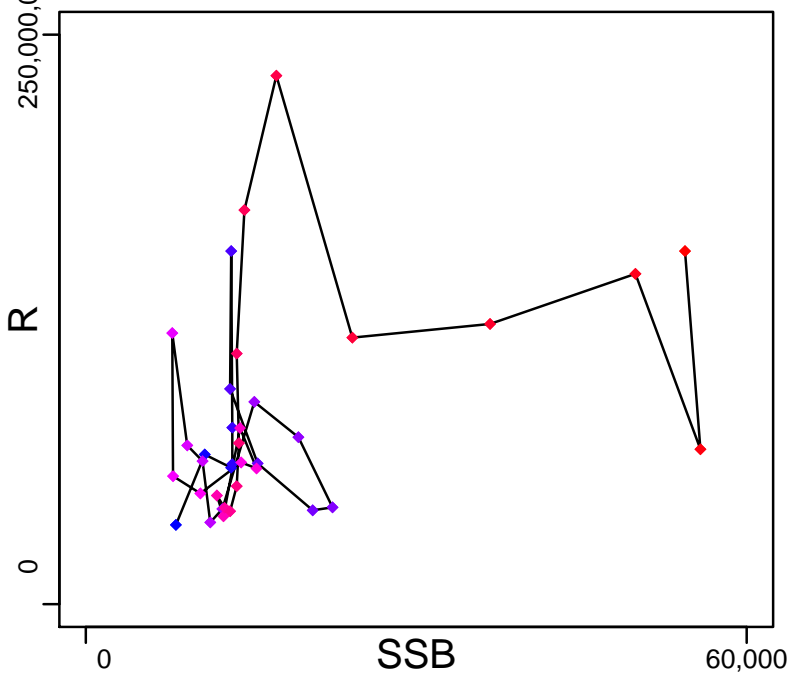
Kobe MSYpref (1979–2016–ICESIMP2016)



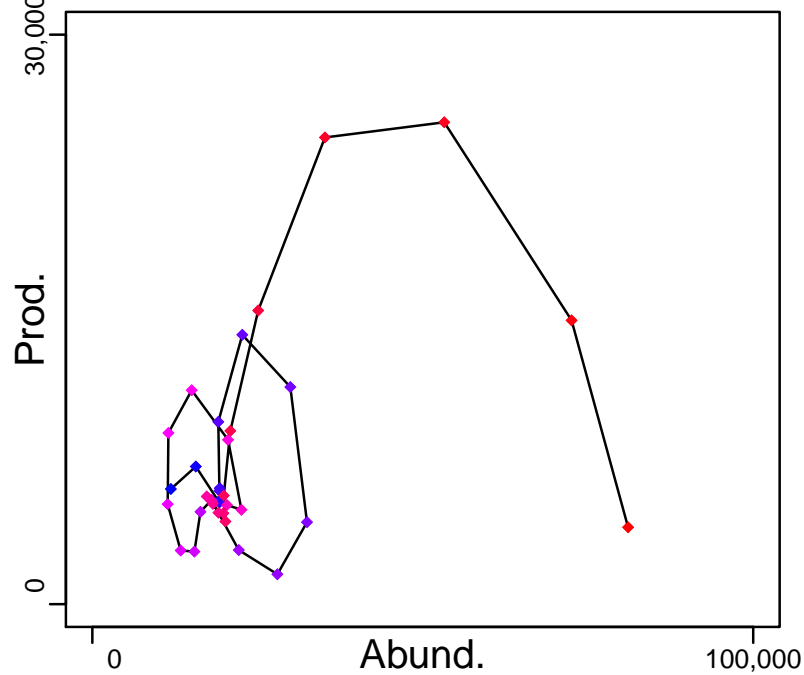
Kobe MGTpref (1979–2016–ICESIMP2016)



Spawner Recruit (1979–2016–ICESIMP2016)

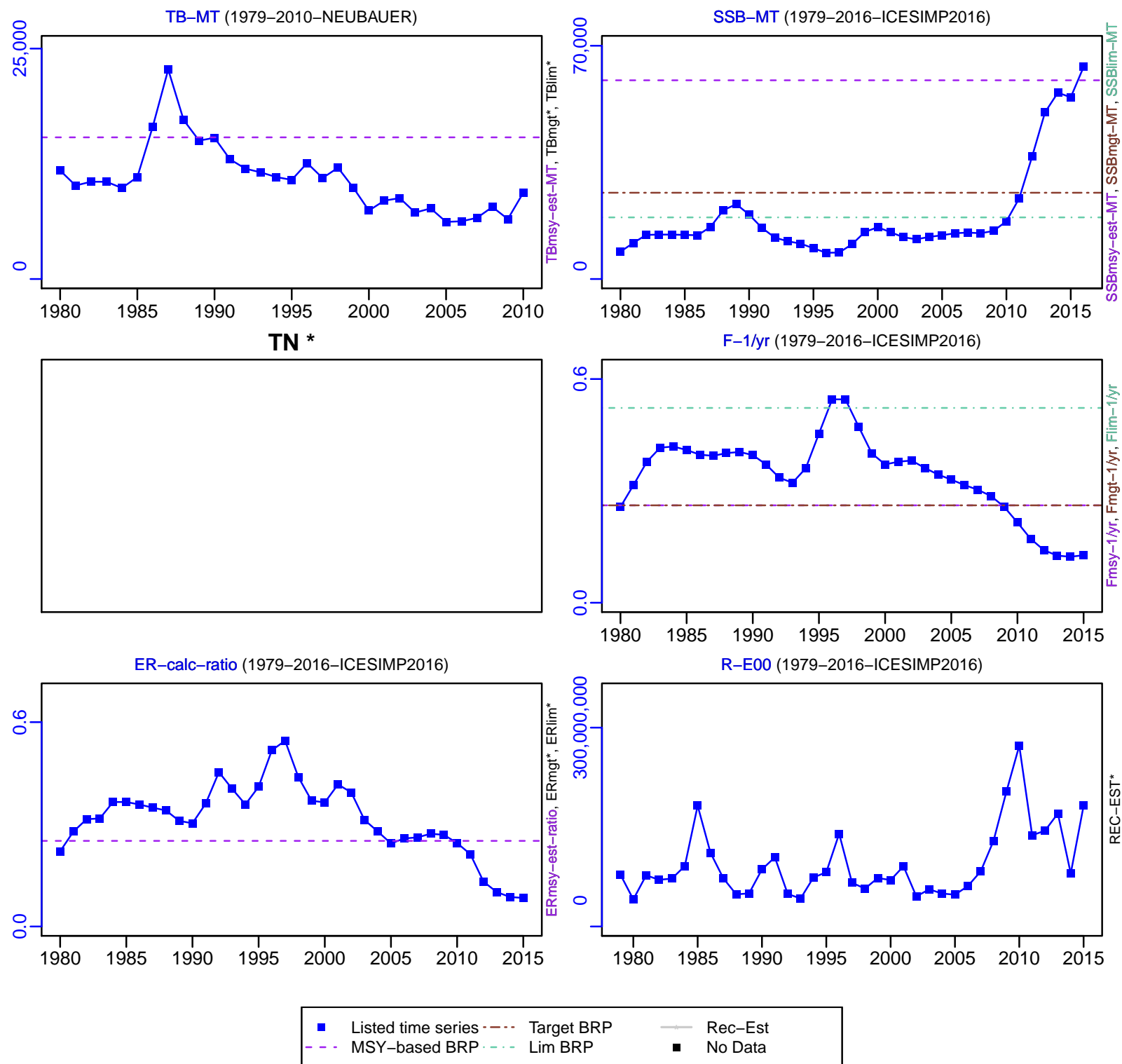


Production (1979–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

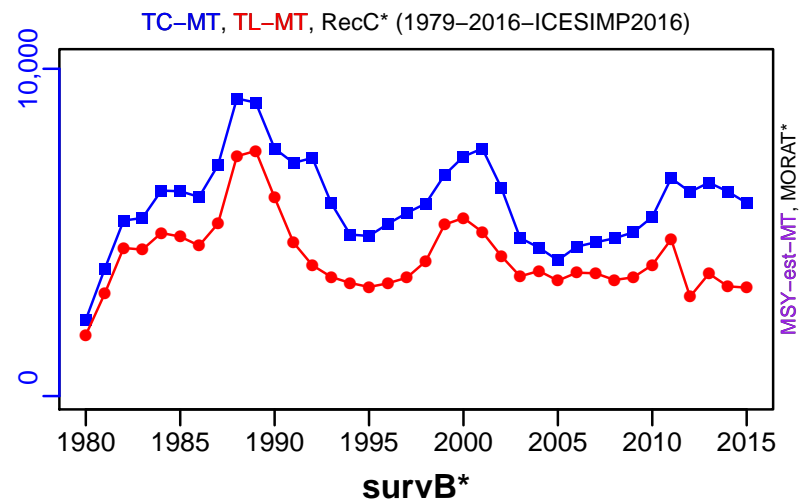
European Plaice ICES VIId [PLAIC7d]



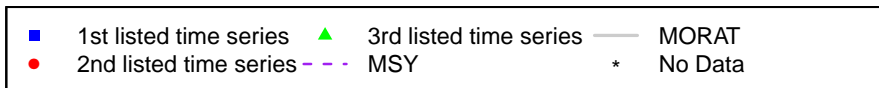
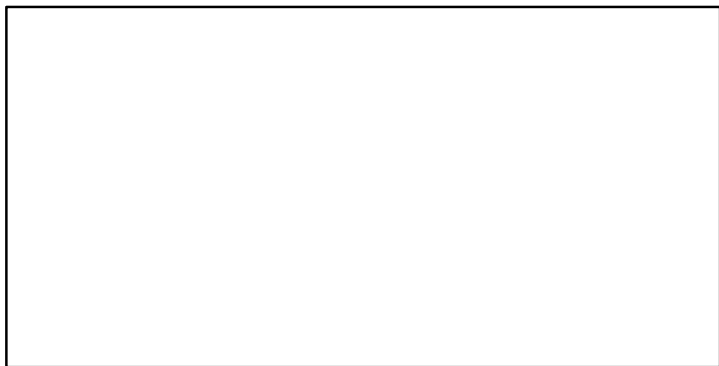
European Plaice ICES VIId [PLAIC7d]

TC-MT, TL-MT, RecC* (1979-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



European Plaice ICES VIIf-g [PLAICCELT]

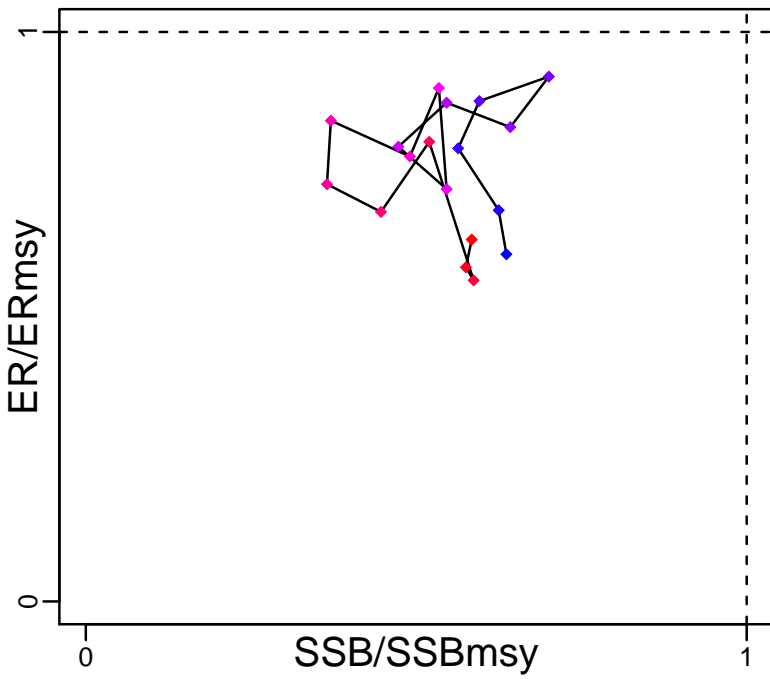
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICCELT-1993-2016-ICESIMP2016
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2014, 2016, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	3425
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2010	0.35
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	1722
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

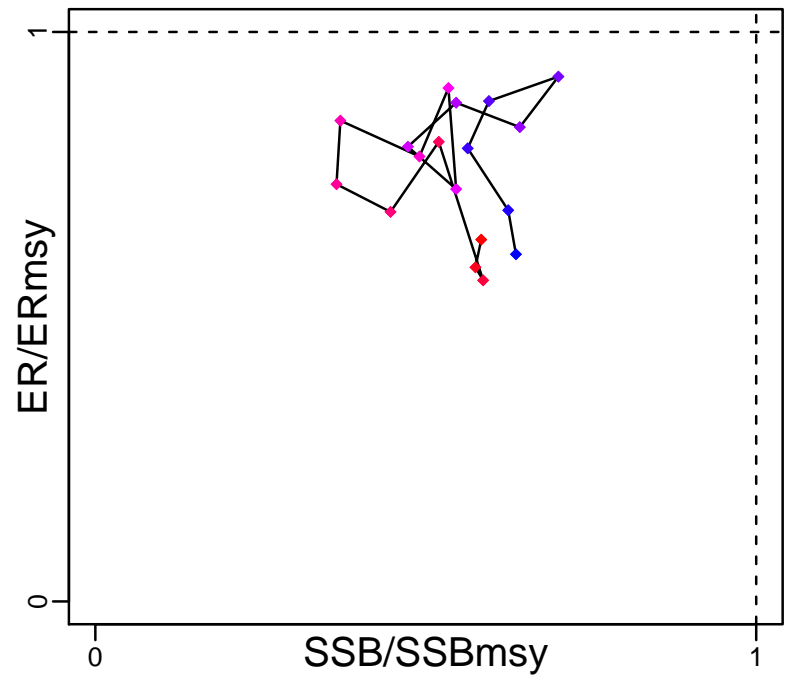
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2014	1	-	-
TN	-	-	-	-	-
R	R-relative	2014	0	-	1
F	F-relative	2014	1	-	3 to 6
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2014	1670		
TL	TL-MT	2016	381		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	0.58		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.64		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European Plaice ICES VII-f-g [PLAICCELT]

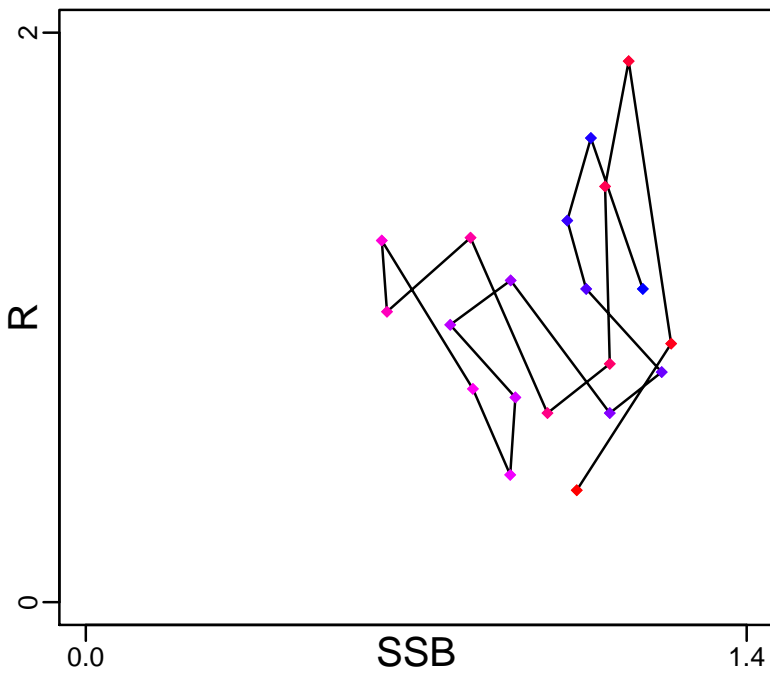
Kobe MSY_{pref} (1992–2010–NEUBAUER)



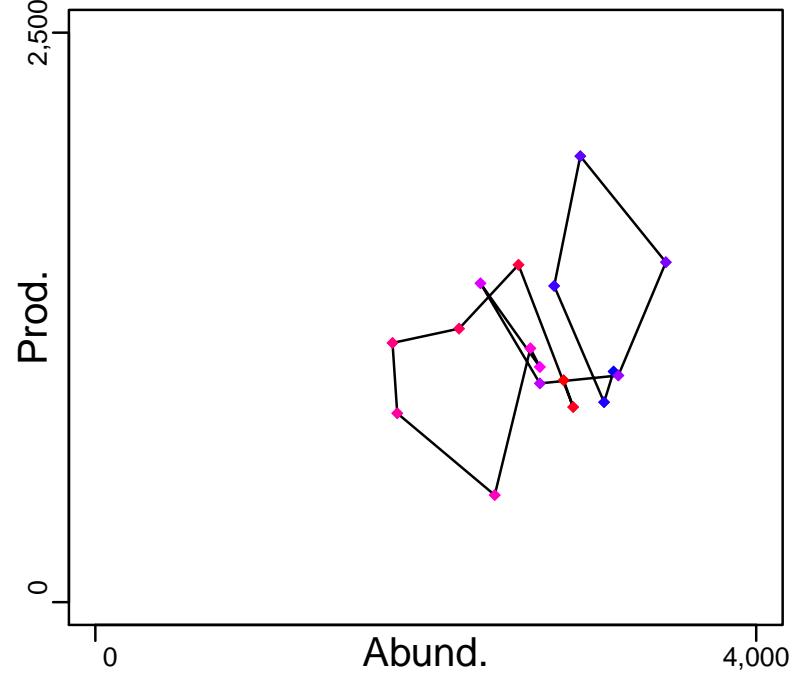
Kobe MGT_{pref} (1992–2010–NEUBAUER)



Spawner Recruit (1992–2014–ICESIMP2016)



Production (1992–2010–NEUBAUER)



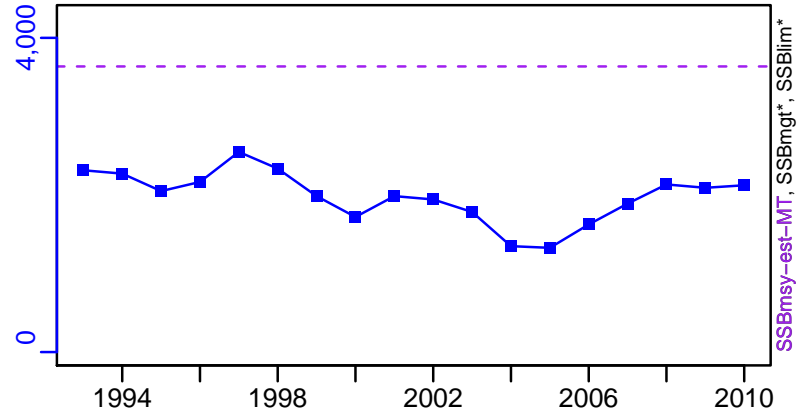
◆ Start Year ◆ End Year * No Data

European Plaice ICES VII-f-g [PLAICCELT]

TB*



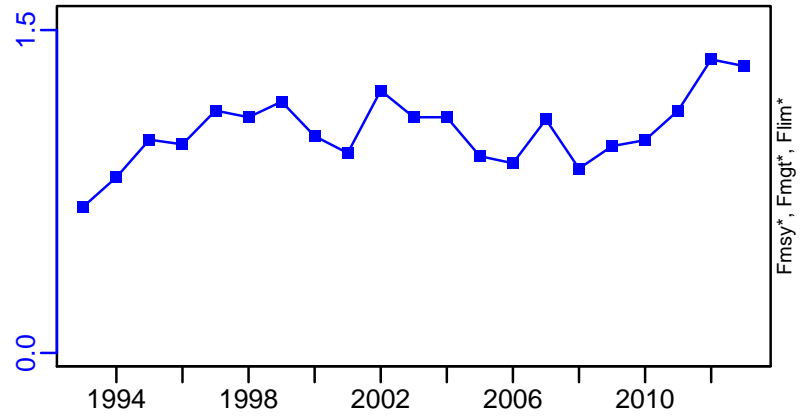
SSB-MT (1992–2010–NEUBAUER)



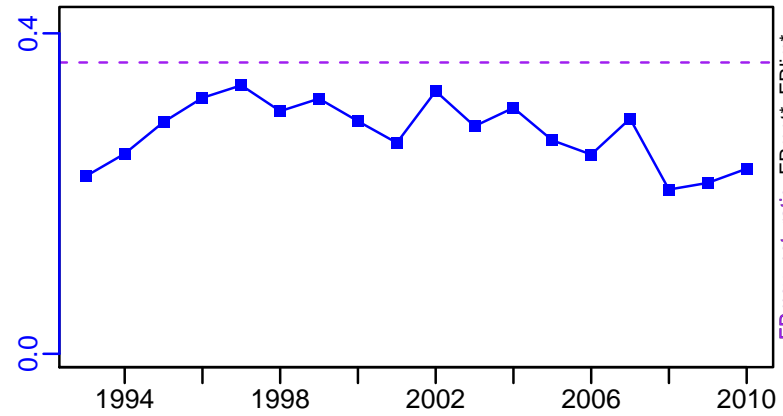
TN *



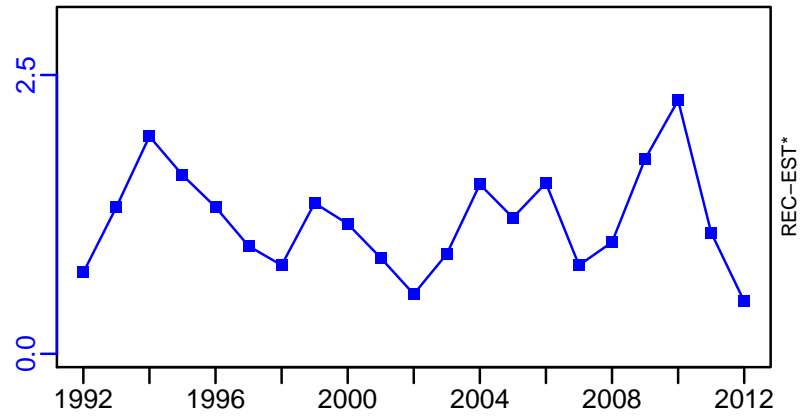
F-relative (1992–2014–ICESIMP2016)



ER-ratio (1992–2010–NEUBAUER)

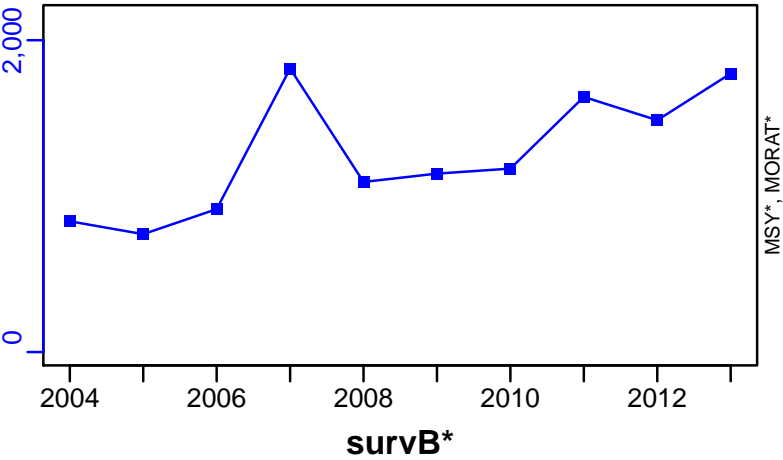


R-relative (1992–2014–ICESIMP2016)



European Plaice ICES VII-f-g [PLAICCELT]

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



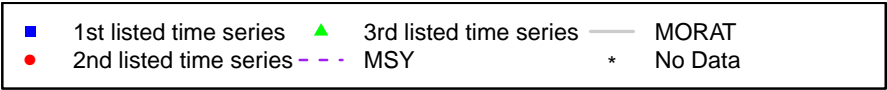
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European Plaice ICES Vile [PLAICEHW]

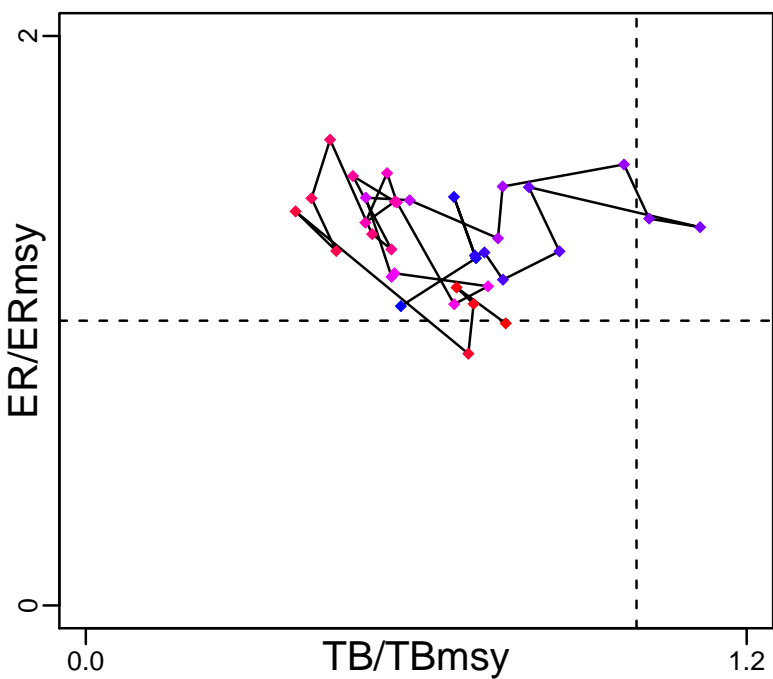
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICEHW-1978-2016-ICESIMP2016
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	8827
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2014	0.24
ERmsy	ERmsy-est-ratio	2014	0.23
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	1650
Fmgt	Fmgt-1/yr	2014	0.24
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	2021
M	M-1/yr	2010	0.12
TBlim	TBlim-MT	2010	1300
SSBlim	SSBlim-relative	2015	1246
Flim	-	-	-
ERlim	-	-	-

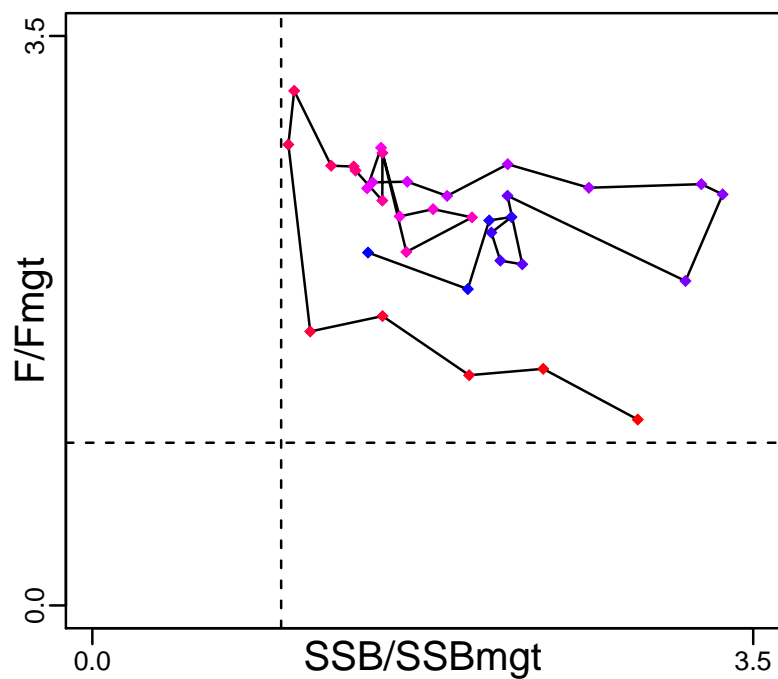
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	6730	-	-
SSB	SSB-relative	2016	2	-	-
TN	-	-	-	-	-
R	R-relative	2016	1	-	2
F	F-relative	2016	0	-	3 to 6
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2016	2940		
TL	TL-MT	2016	1420		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.76		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	1.14		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2014	0.99		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	3.35		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.14		
ER/ERmgt	-	-	-		

European Plaice ICES Vlle [PLAICECHW]

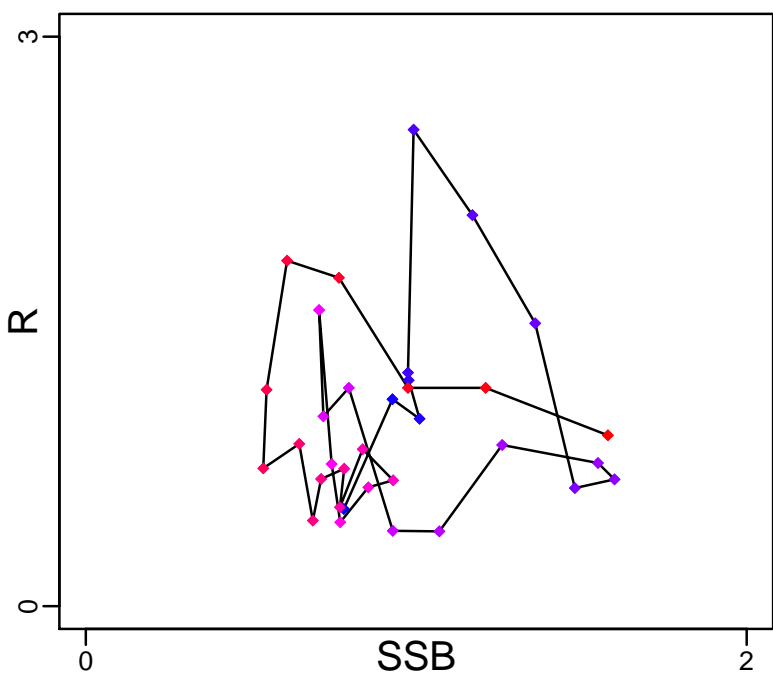
Kobe MSYpref (1979–2014–ICESIMP2016)



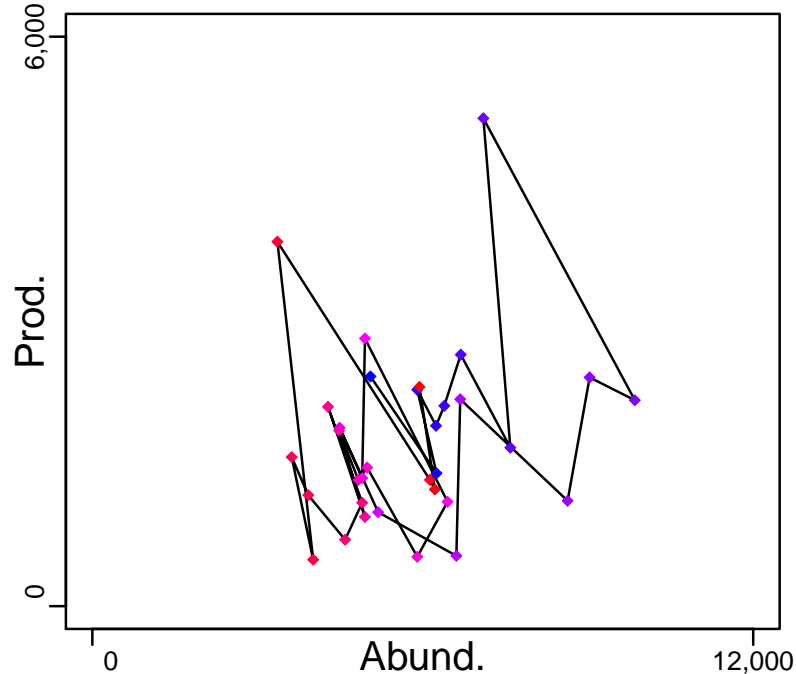
Kobe MGTpref (1979–2014–ICESIMP2016)



Spawner Recruit (1978–2016–ICESIMP2016)



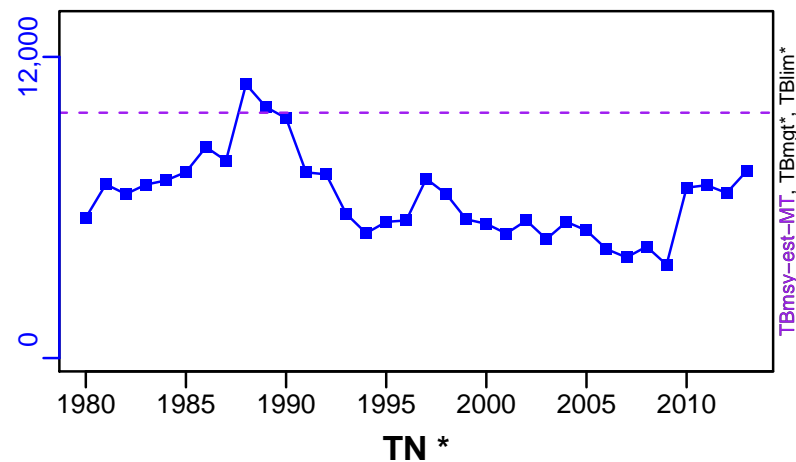
Production (1979–2014–ICESIMP2016)



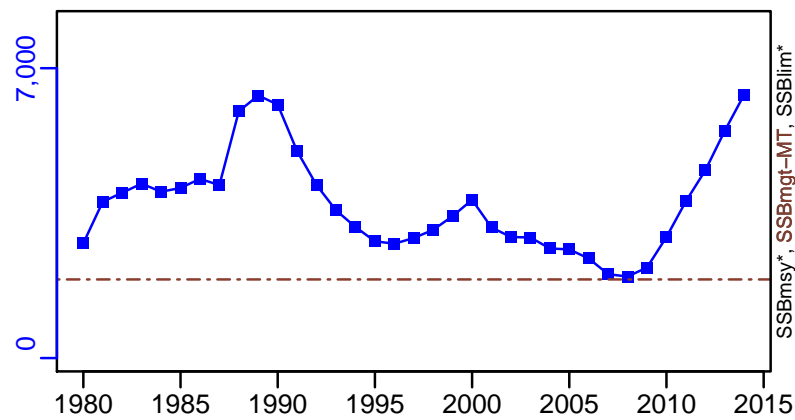
◆ Start Year ◆ End Year * No Data

European Plaice ICES Vile [PLAICECHW]

TB-MT (1979–2014–ICESIMP2016)



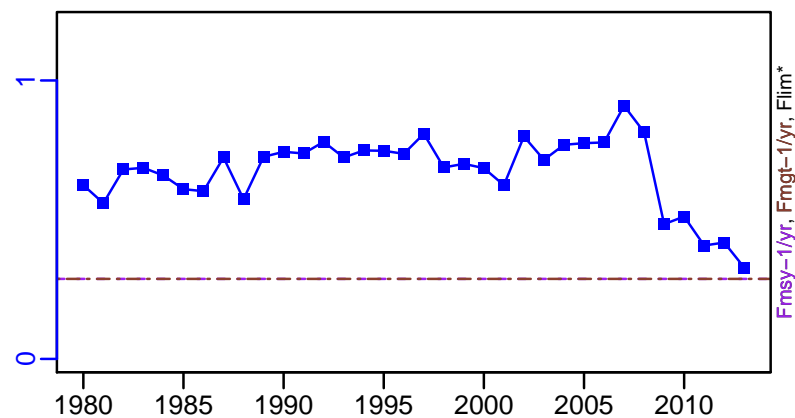
SSB-MT (1979–2014–ICESIMP2016)



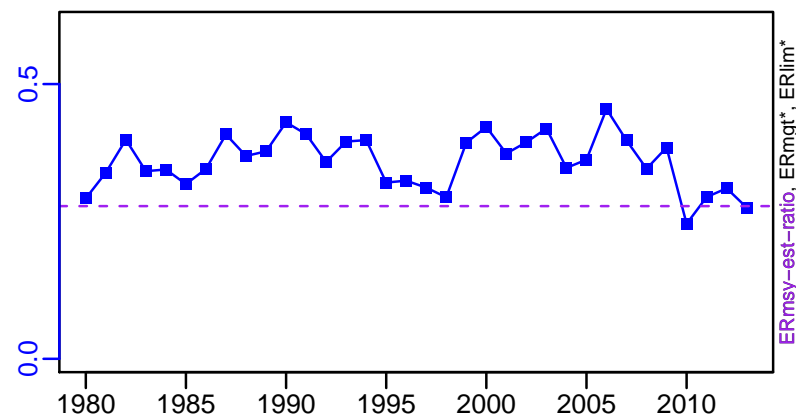
TN *



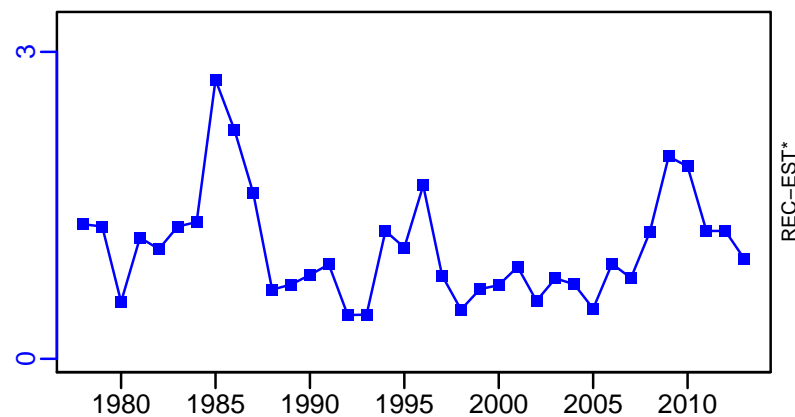
F-1/yr (1979–2014–ICESIMP2016)



ER-calc-ratio (1979–2014–ICESIMP2016)



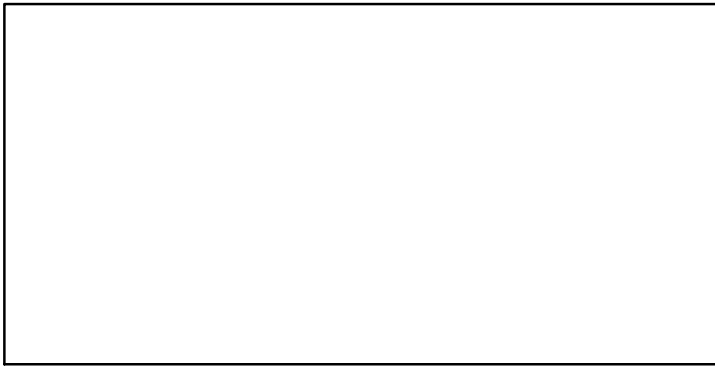
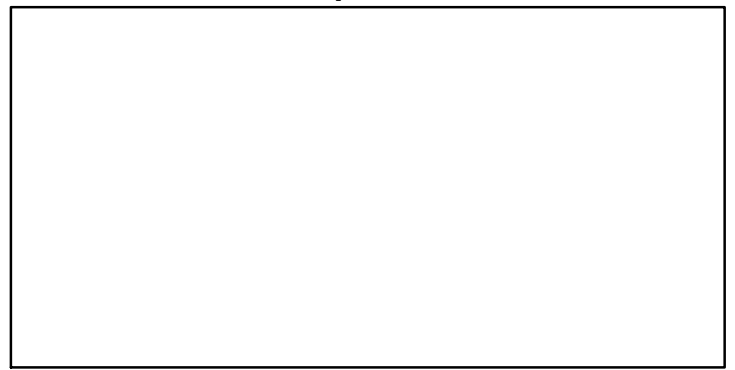
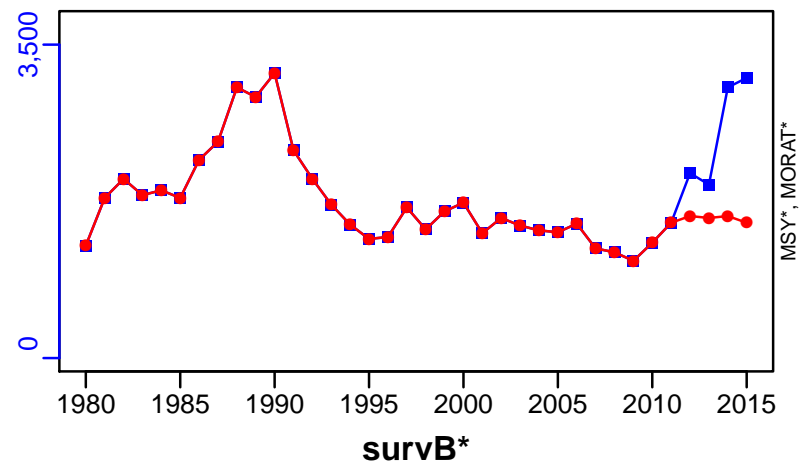
R-relative (1978–2016–ICESIMP2016)



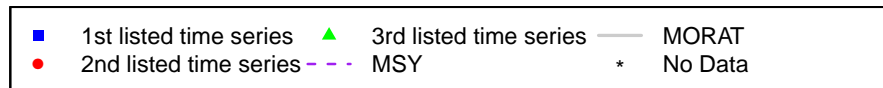
European Plaice ICES Vlle [PLAICECHW]

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

TAC*, Cpair*, Cadv*



EFFORT*



European Plaice ICES IIIa [PLAICIIIa]

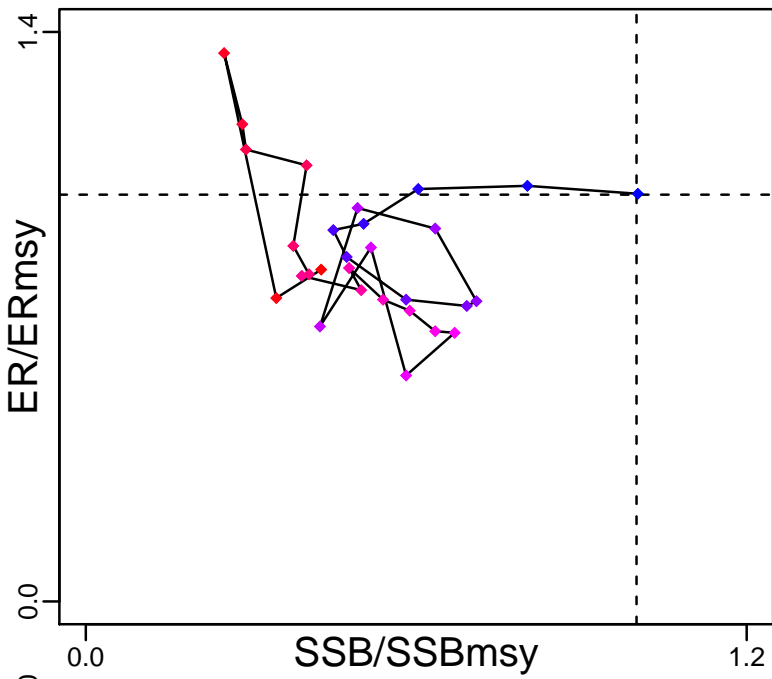
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICIIIa-1976-2006-MINTO
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2006	45,393
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2006	0.26
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2006	16,728
M	M-1/yr	2006	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

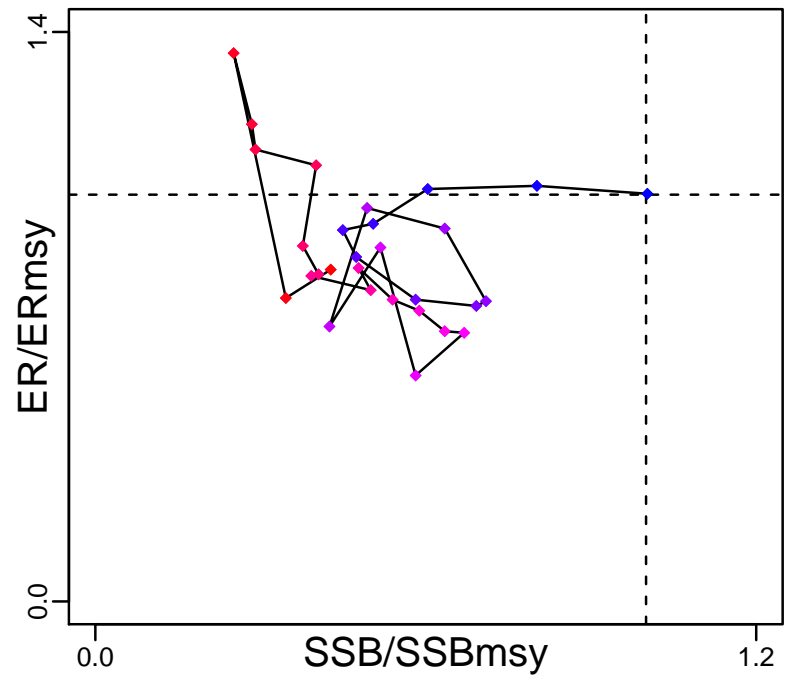
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2006	19,400	-	2+
TN	-	-	-	-	-
R	R-E00	2006	26,700,000	-	2
F	F-1/yr	2006	1	-	4 to 8
ER	ER-ratio	2006	0	-	-
TC	-	-	-		
TL	TL-MT	2006	9410		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2006	0.43		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2006	0.82		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European Plaice ICES IIIa [PLAICIIIa]

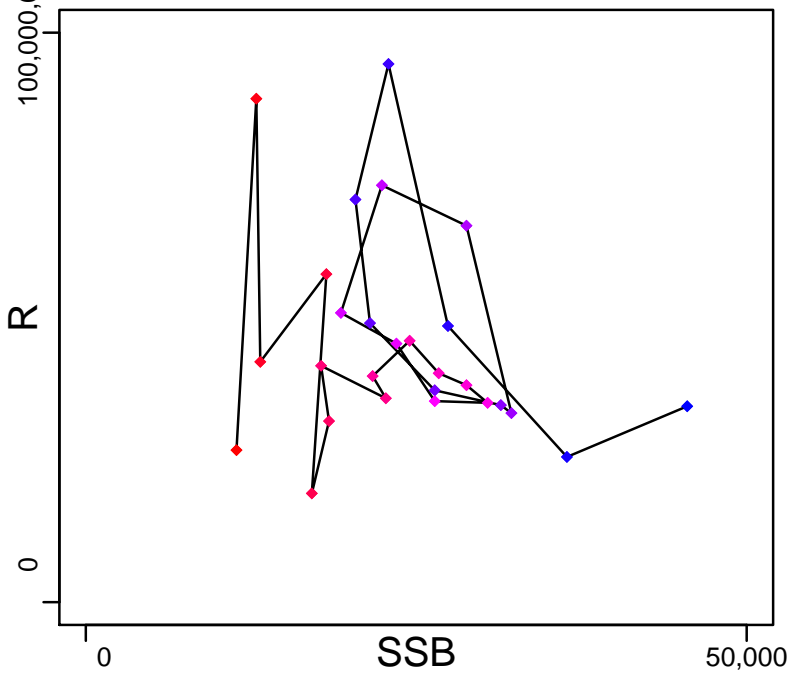
Kobe MSYpref (1976–2006–MINTO)



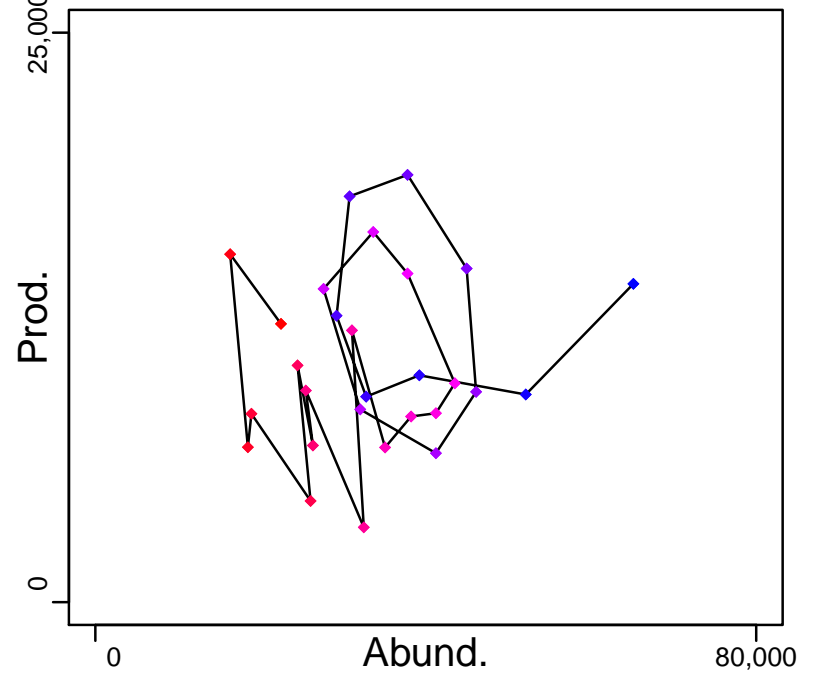
Kobe MGTpref (1976–2006–MINTO)



Spawner Recruit (1976–2006–MINTO)



Production (1976–2006–MINTO)



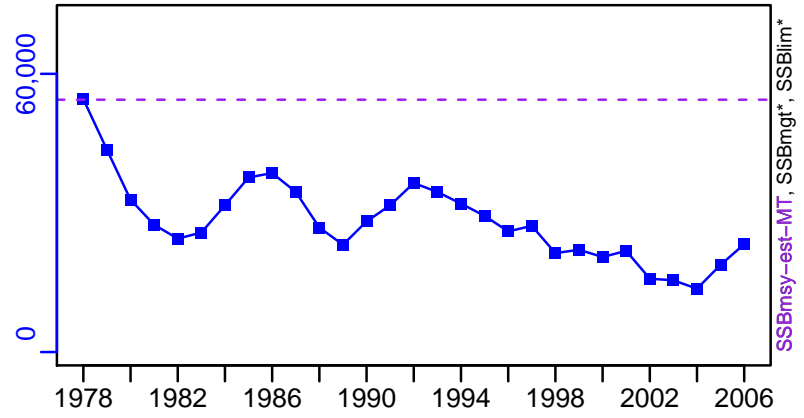
◆ Start Year ◆ End Year * No Data

European Plaice ICES IIIa [PLAICIIIa]

TB*



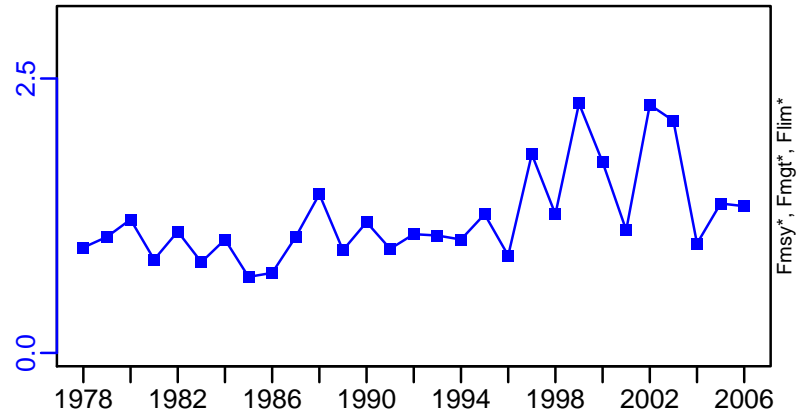
SSB-MT (1976–2006–MINTO)



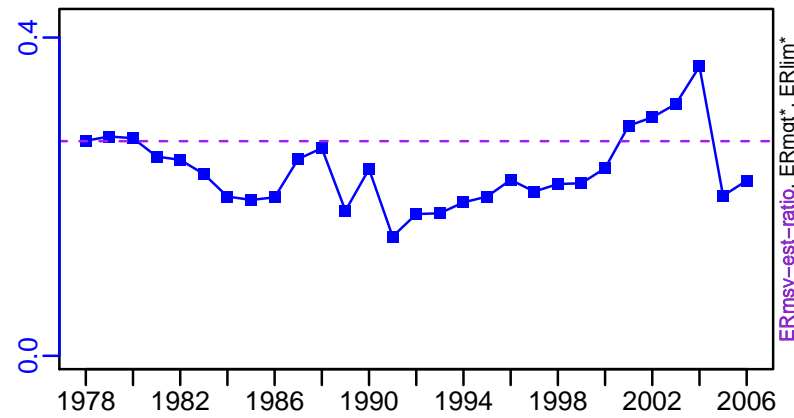
TN *



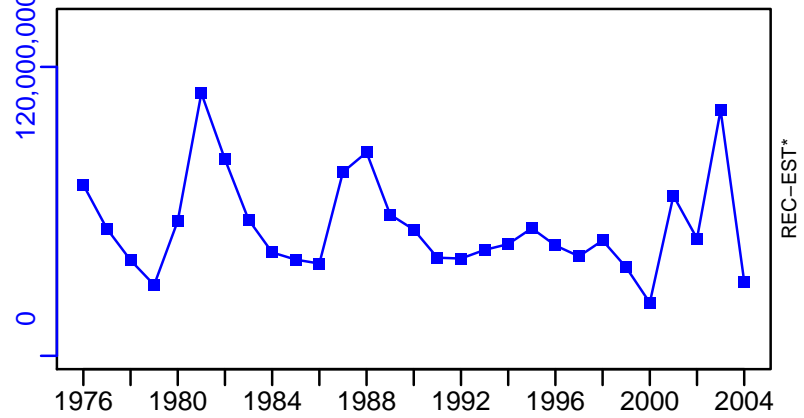
F-1/yr (1976–2006–MINTO)



ER-ratio (1976–2006–MINTO)



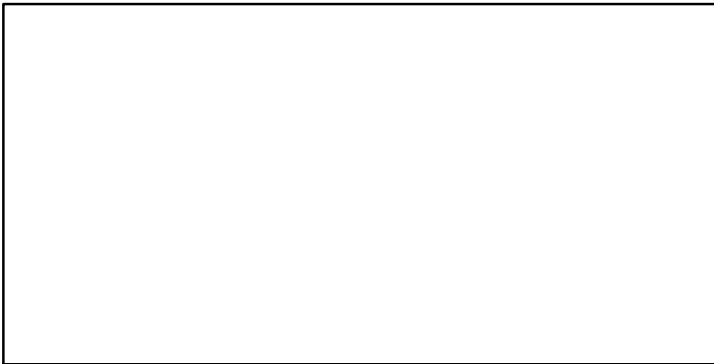
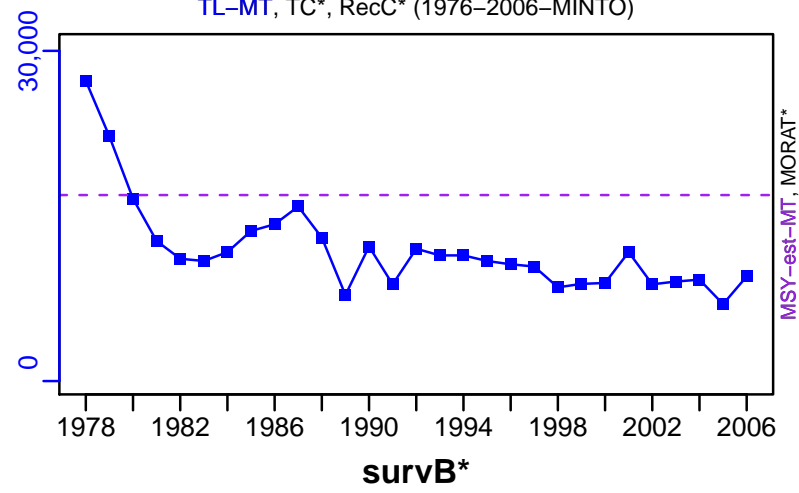
R-E00 (1976–2006–MINTO)



European Plaice ICES IIIa [PLAICIIIa]

TL-MT, TC*, RecC* (1976-2006-MINTO)

TAC*, Cpair*, Cadv*



EFFORT*



European Plaice Irish Sea [PLAICIS]

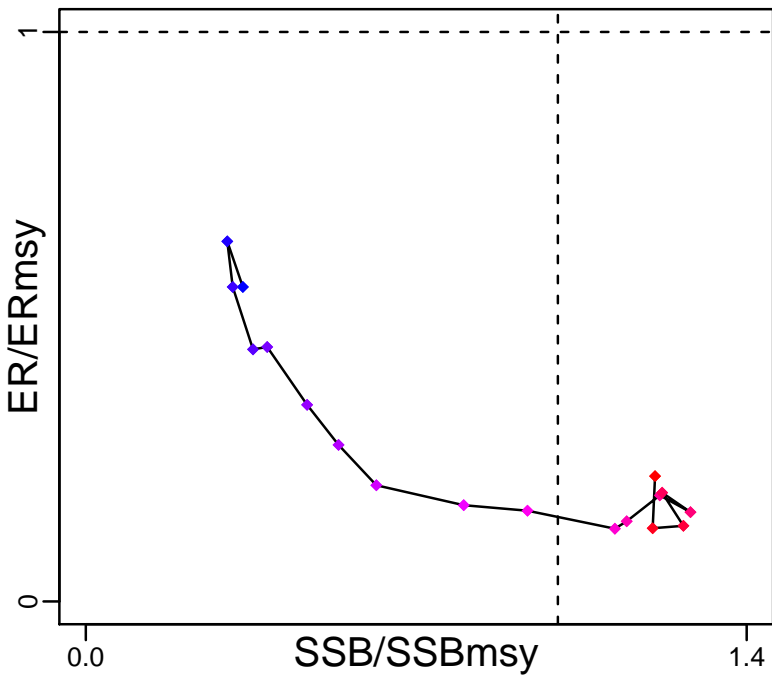
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICIS-1964-2016-ICESIMP2016
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-est-MT	2010	19,986
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2010	0.24
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2010	6822
M	M-1/yr	2010	0.12
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

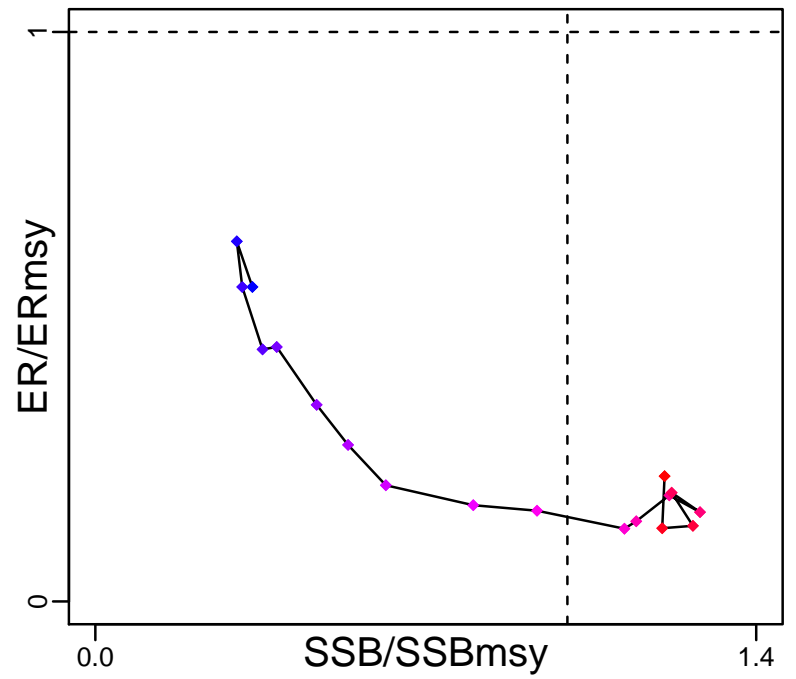
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	2	-	-
TN	-	-	-	-	-
R	R-relative	2016	1	-	1
F	F-relative	2016	0	-	3 to 6
ER	ER-ratio	2010	0	-	-
TC	TC-MT	2016	1010		
TL	TL-MT	2016	439		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2010	1.21		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2010	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European Plaice Irish Sea [PLAICIS]

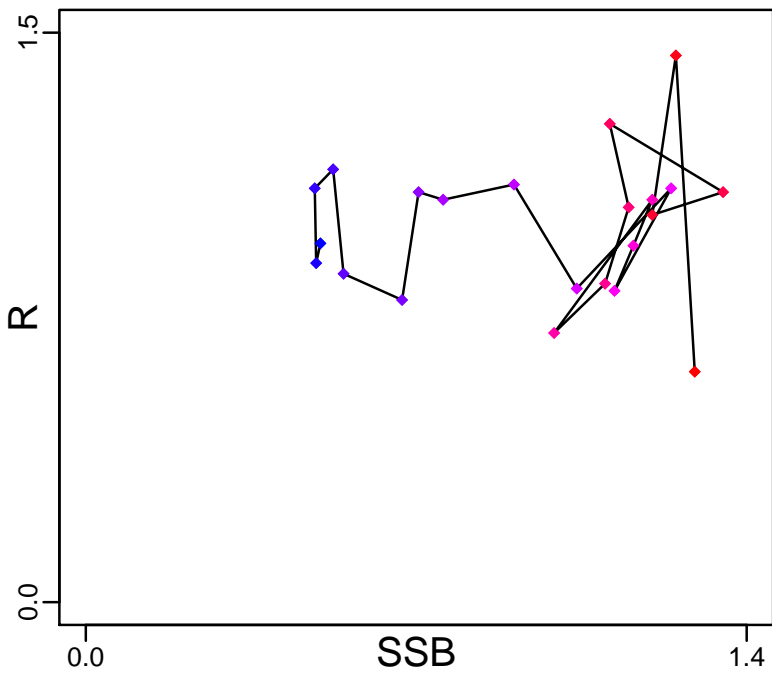
Kobe MSYpref (1992–2010–NEUBAUER)



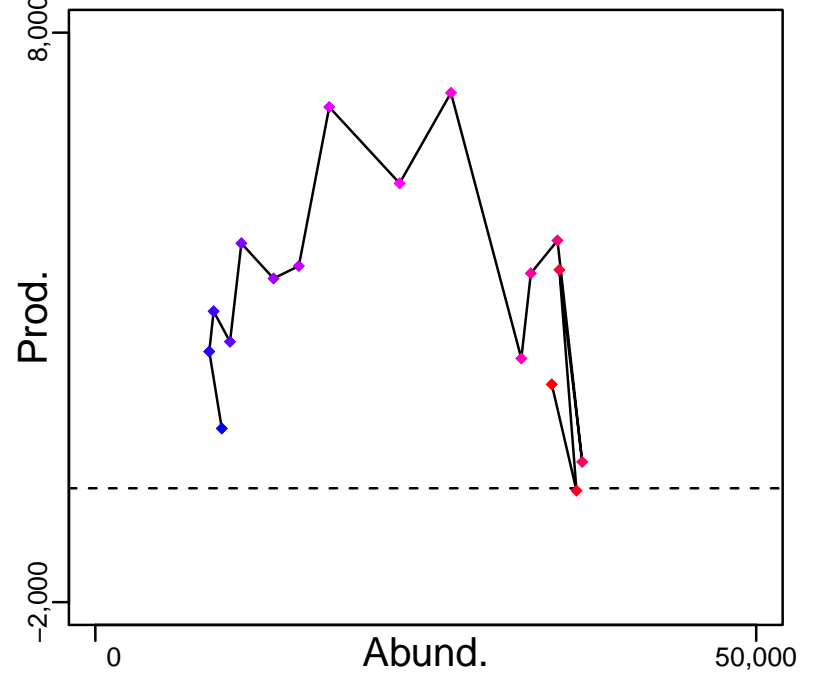
Kobe MGTpref (1992–2010–NEUBAUER)



Spawner Recruit (1964–2016–ICESIMP2016)



Production (1992–2010–NEUBAUER)



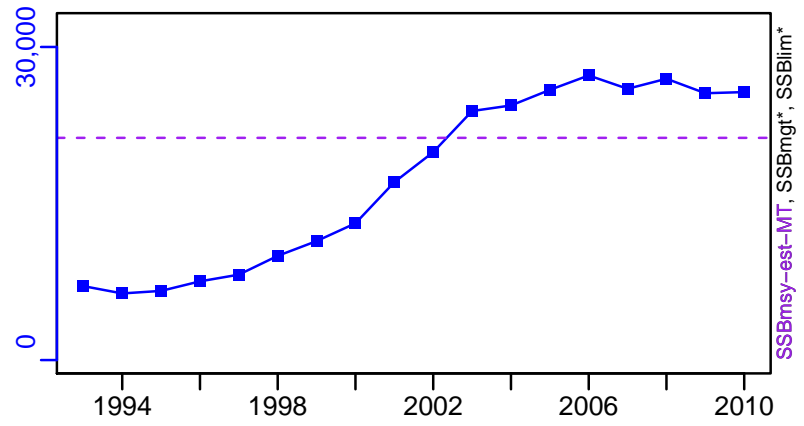
◆ Start Year ◆ End Year * No Data

European Plaice Irish Sea [PLAICIS]

TB*



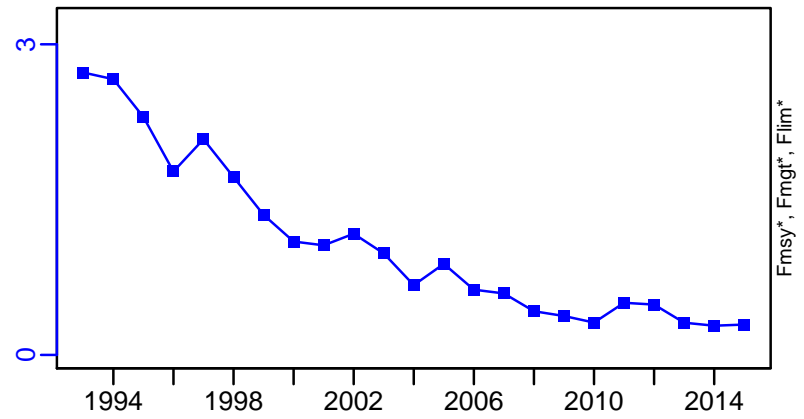
SSB-MT (1992–2010–NEUBAUER)



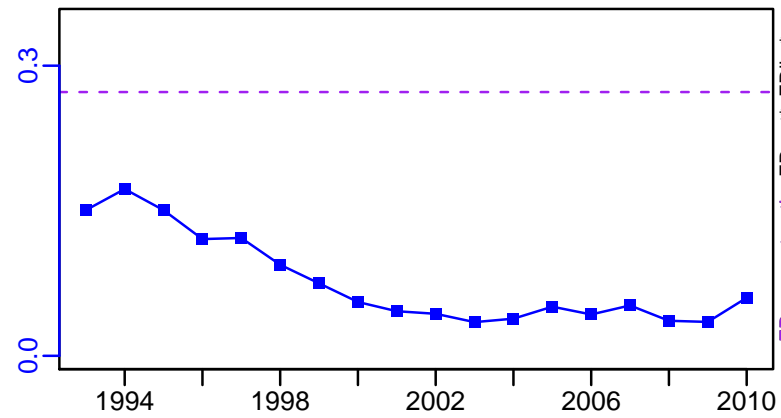
TN *



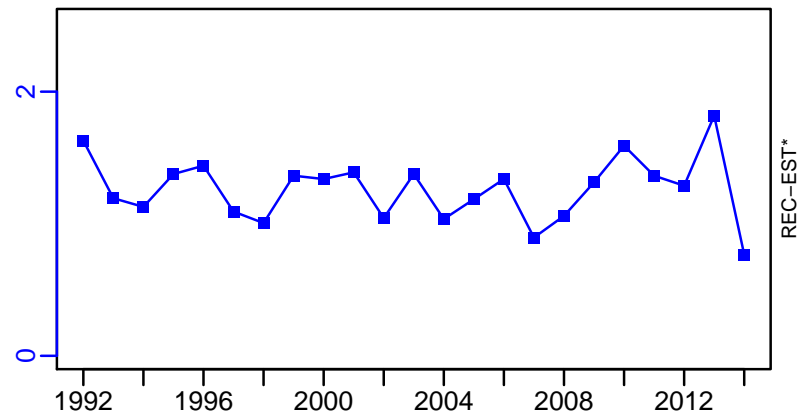
F-relative (1964–2016–ICESIMP2016)



ER-ratio (1992–2010–NEUBAUER)

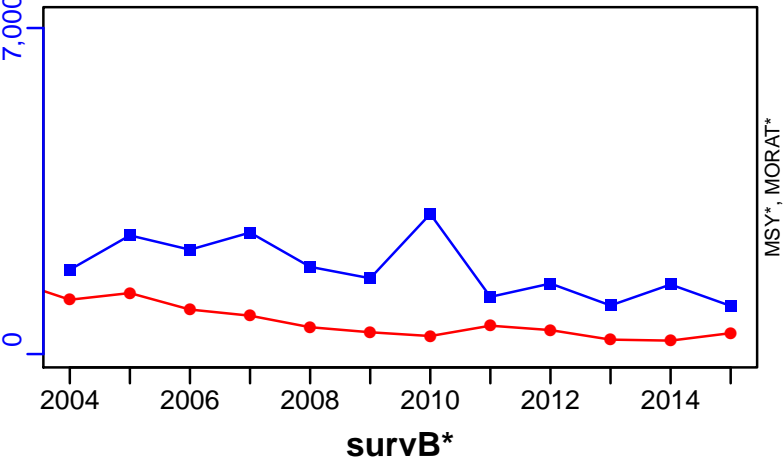


R-relative (1964–2016–ICESIMP2016)



European Plaice Irish Sea [PLAICIS]

TC-MT, TL-MT, RecC* (1964–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European Plaice North Sea [PLAICNS]

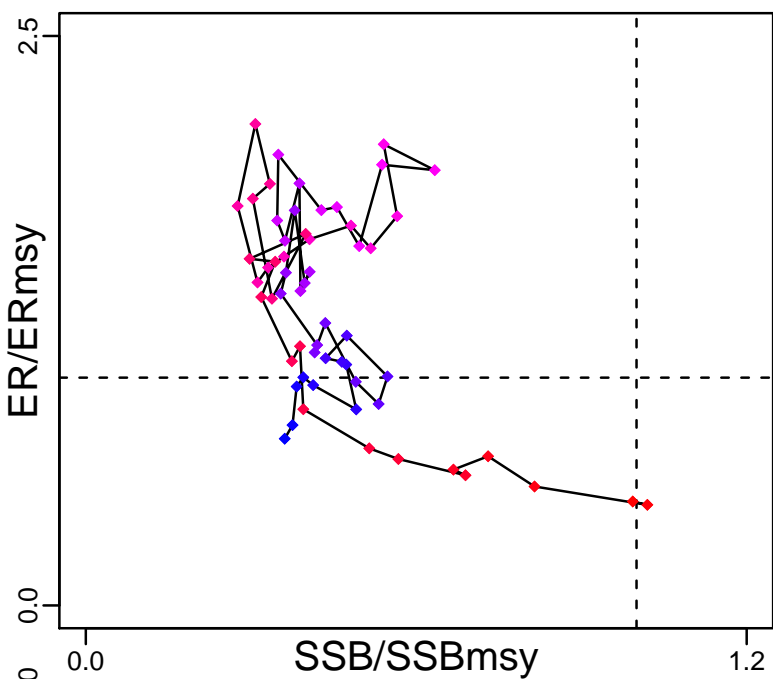
Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGNSSK-PLAICNS-1956-2016-ICESIMP2016
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2013	1,365,716
SSBmsy	SSBmsy-est-MT	2016	760,044
Fmsy	Fmsy-1/yr	2016	0.19
ERmsy	ERmsy-est-ratio	2016	0.28
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	230,000
Fmgt	Fmgt-1/yr	2016	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	296,734
M	M-1/yr	2010	0.1
TBlim	TBlim-MT	2010	160,000
SSBlim	SSBlim-MT	2016	160,000
Flim	Flim-1/yr	2016	0.63
ERlim	-	-	-

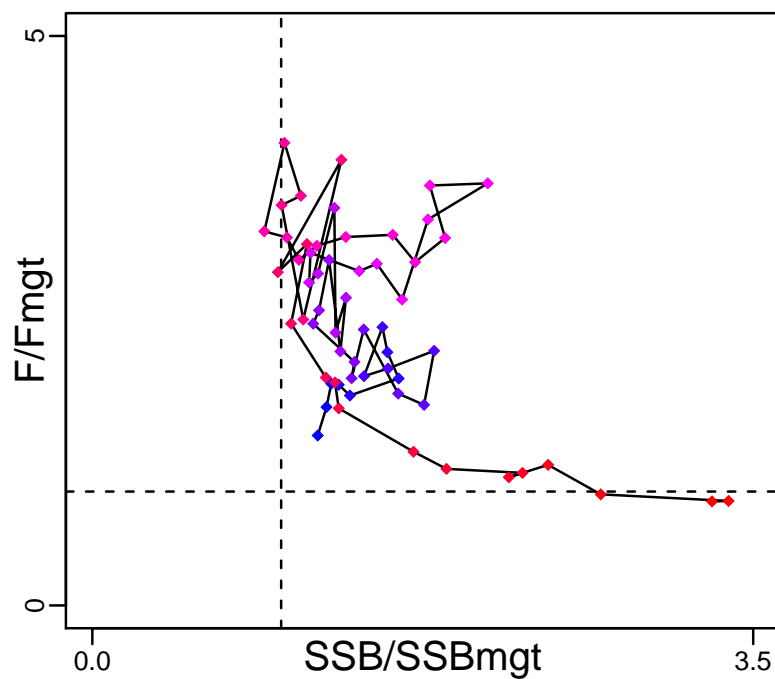
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2013	698,000	-	-
SSB	SSB-MT	2016	946,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	9.08×10^8	-	1
F	F-1/yr	2016	0	-	2 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	134,000		
TL	TL-MT	2016	85,400		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.51		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	1.24		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.91		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.46		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	4.11		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.91		
ER/ERmgt	-	-	-		

European Plaice North Sea [PLAICNS]

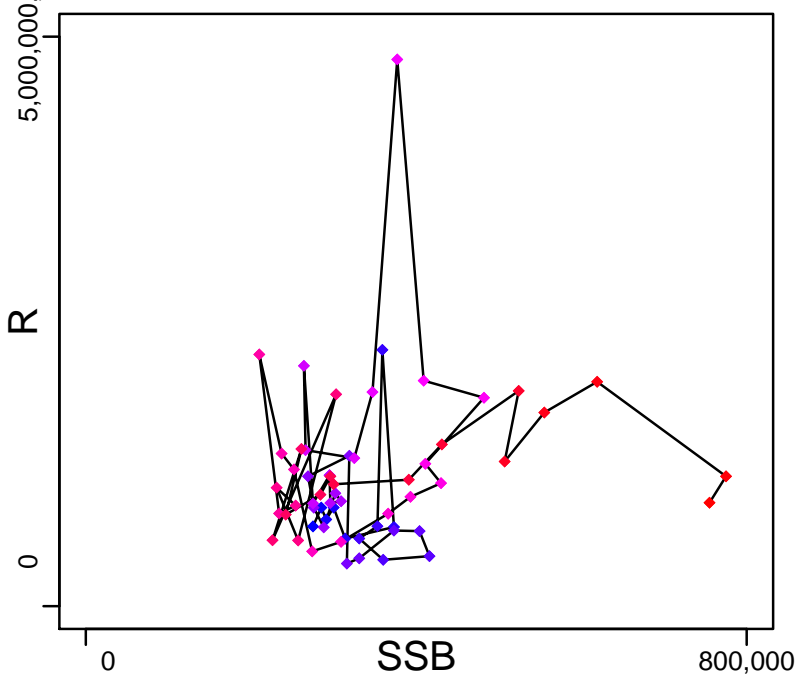
Kobe MSYpref (1956–2016–ICESIMP2016)



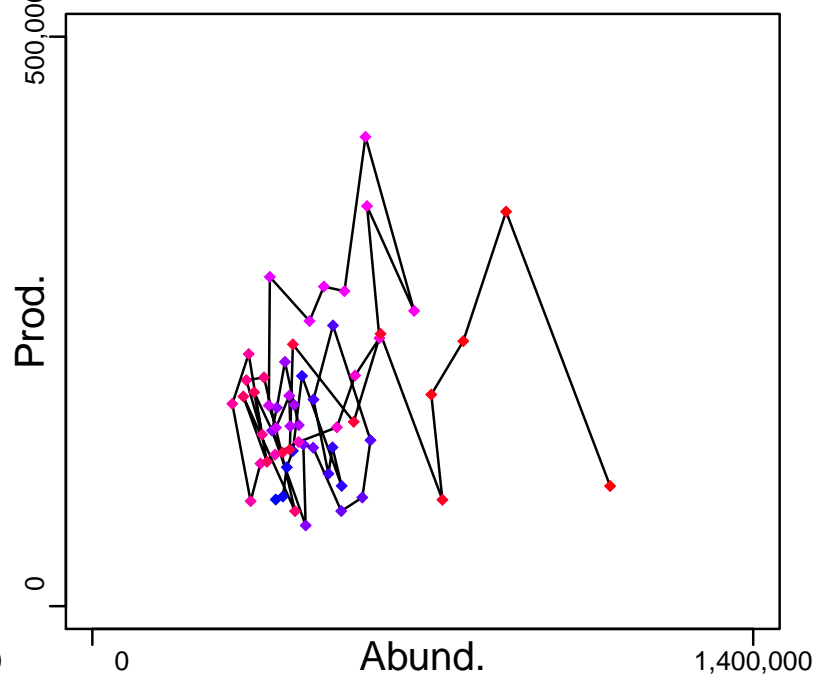
Kobe MGTpref (1956–2016–ICESIMP2016)



Spawner Recruit (1956–2016–ICESIMP2016)



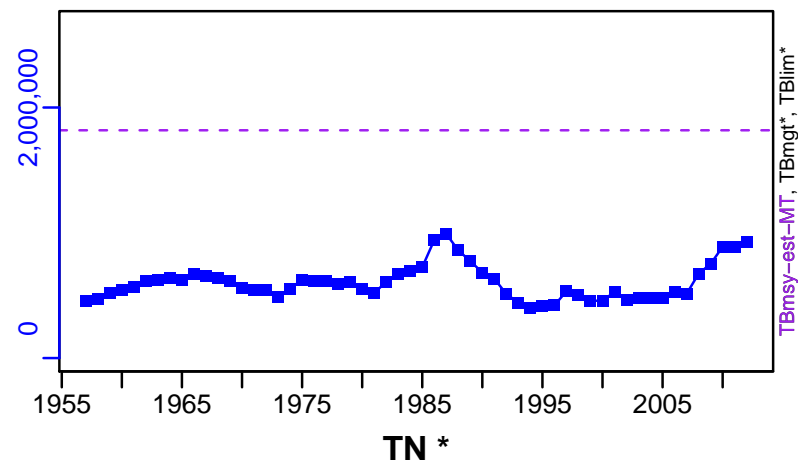
Production (1956–2016–ICESIMP2016)



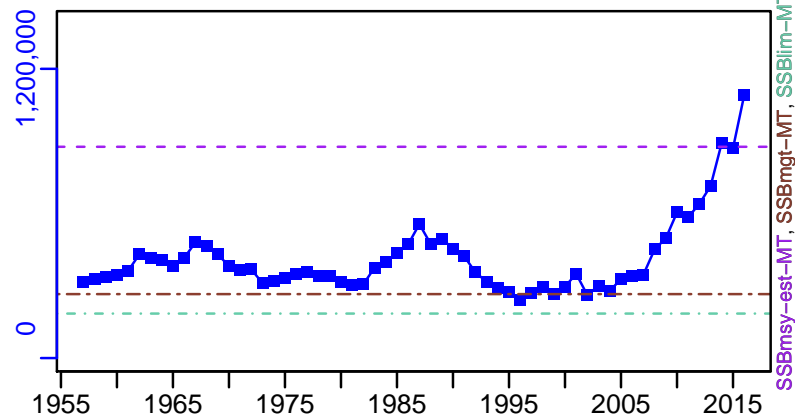
◆ Start Year ◆ End Year * No Data

European Plaice North Sea [PLAICNS]

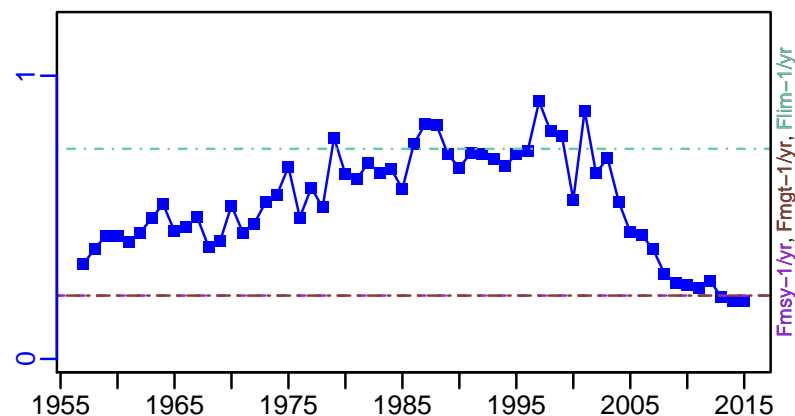
TB-MT (1956–2013–ICESIMP2016)



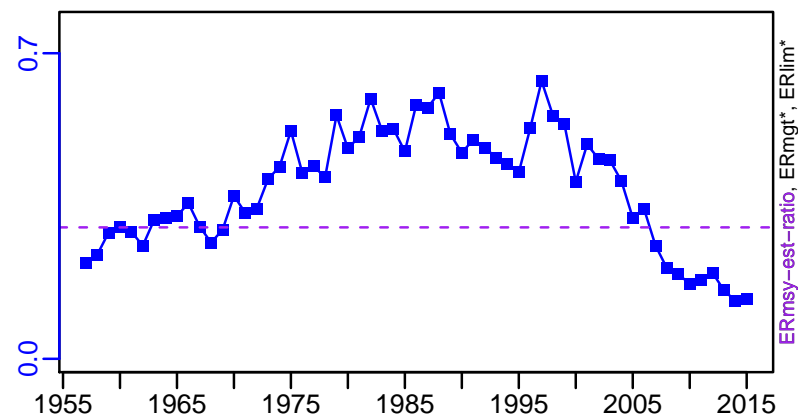
SSB-MT (1956–2016–ICESIMP2016)



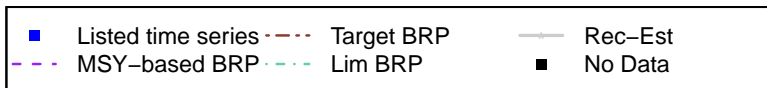
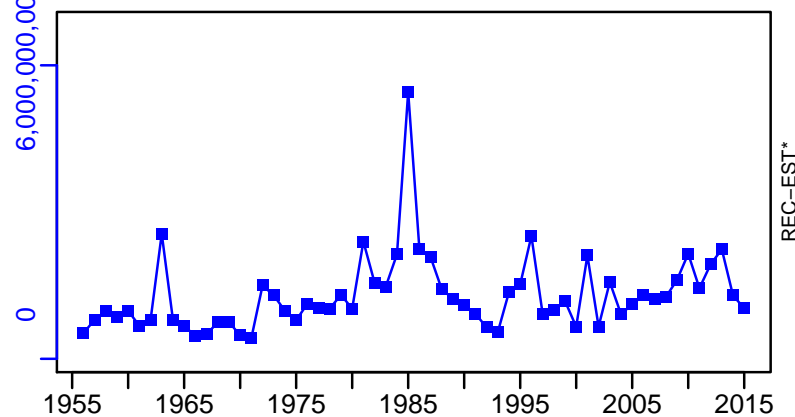
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2016–ICESIMP2016)

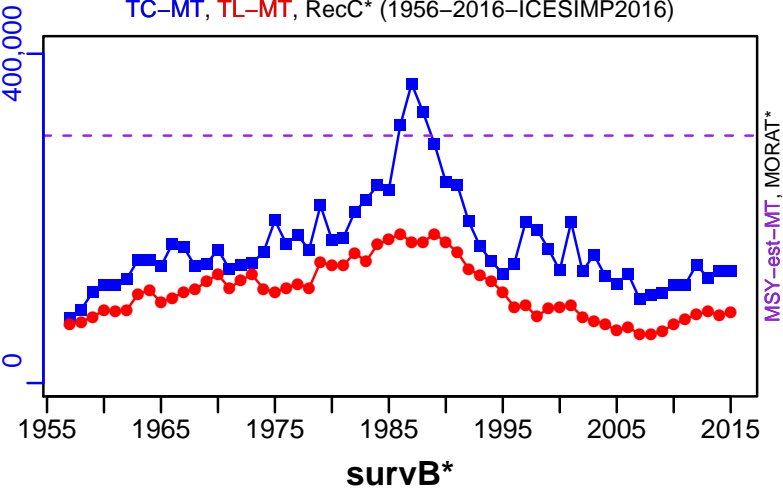


R-E00 (1956–2016–ICESIMP2016)

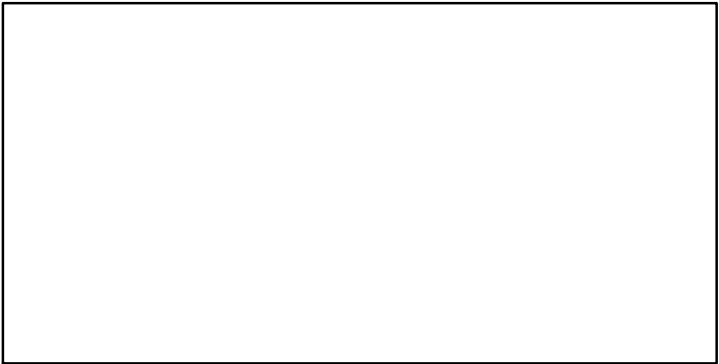


European Plaice North Sea [PLAICNS]

TC-MT, TL-MT, RecC* (1956–2016–ICESIMP2016)



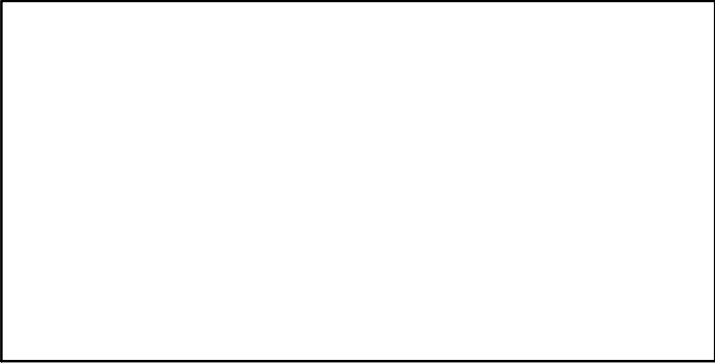
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



European Plaice VIIbc [PLAICVIIbc]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIbc-1996-2015-ICESIMP2016
Area	VIIbc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
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	23		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/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*

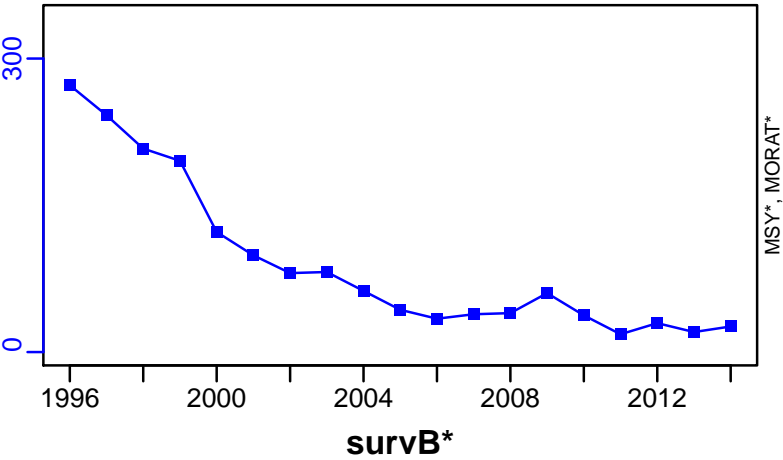


Recruits*



European Plaice VIIbc [PLAICVIIbc]

TL-MT, TC*, RecC* (1996–2015–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

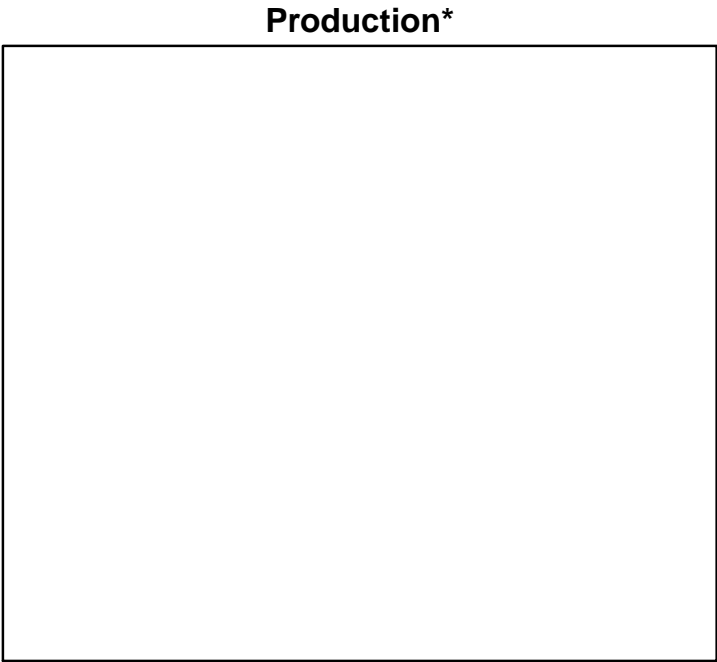
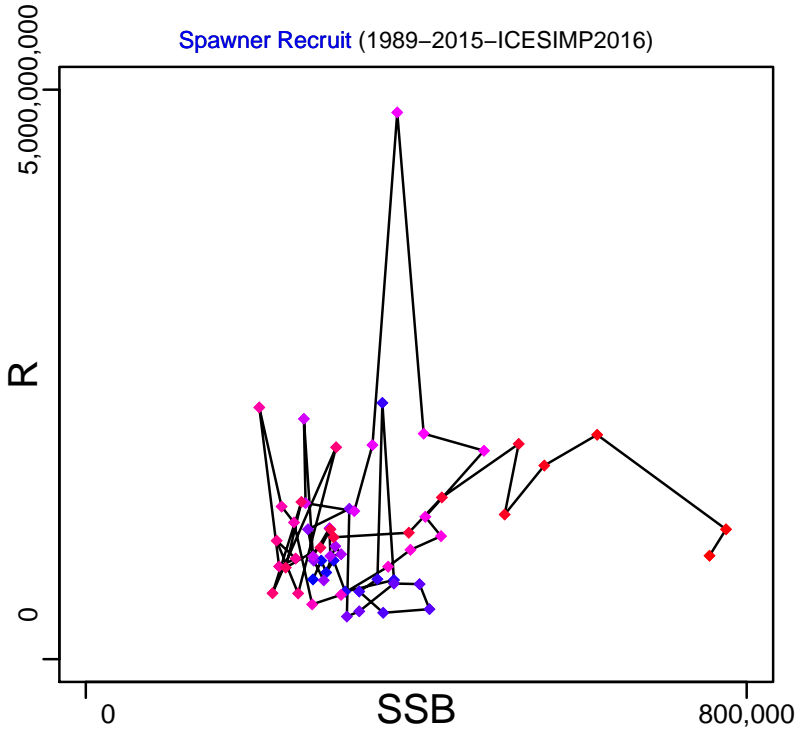


European Plaice VIIh-k [PLAICVIIh-k]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGCSE-PLAICVIIh-k-1989-2015-ICESIMP2016
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

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

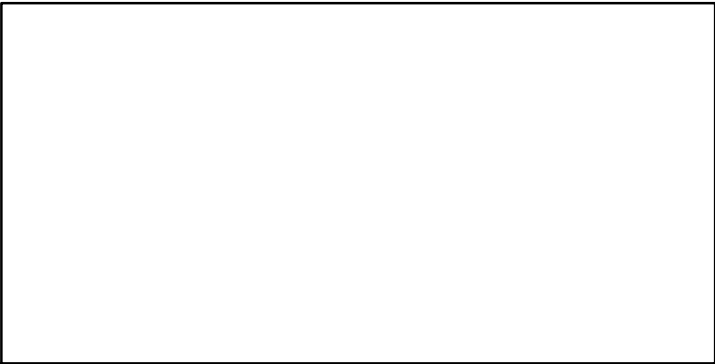
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



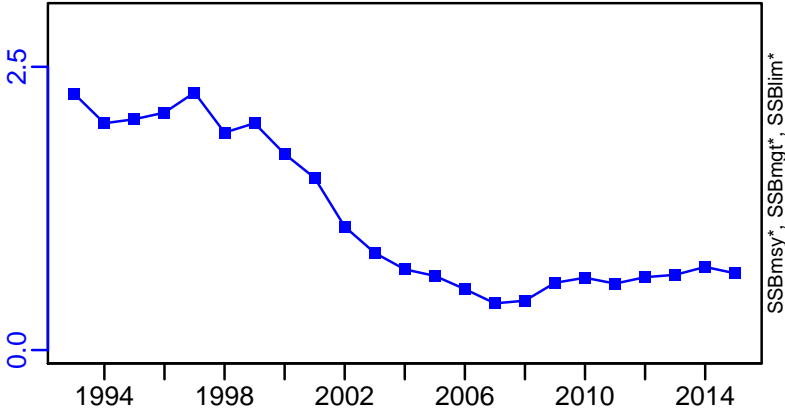
◆ Start Year ◆ End Year * No Data

European Plaice VIIh-k [PLAICVIIh-k]

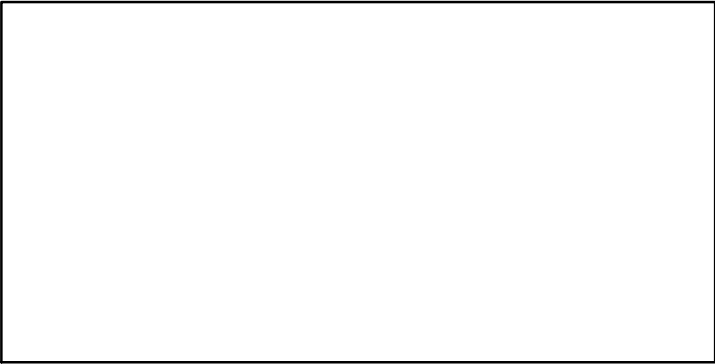
TB*



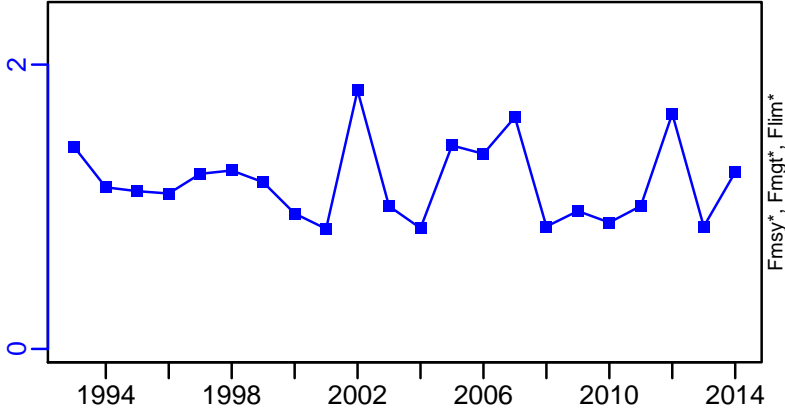
SSB-relative (1989-2015-ICESIMP2016)



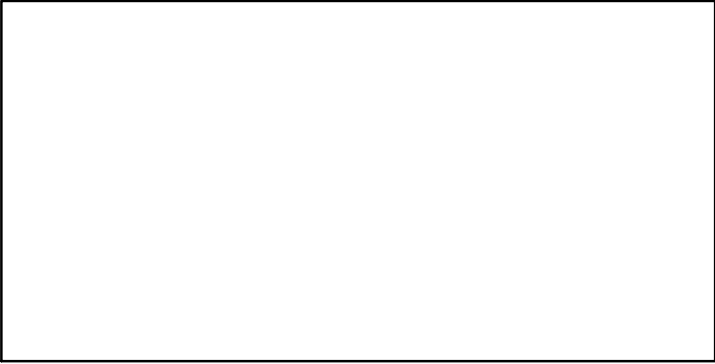
TN *



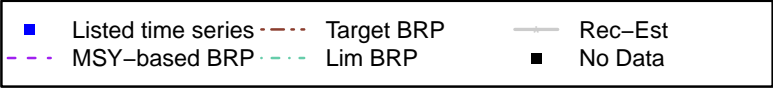
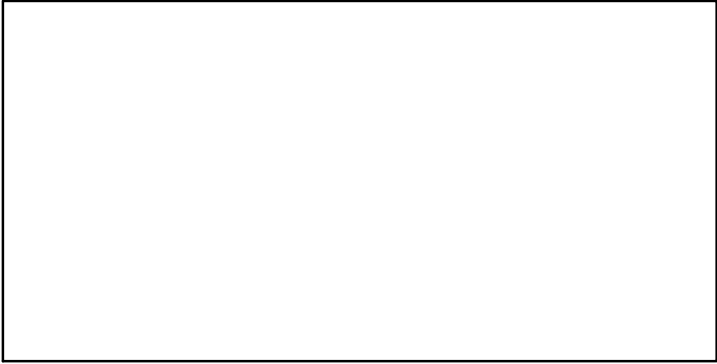
F-relative (1989-2015-ICESIMP2016)



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

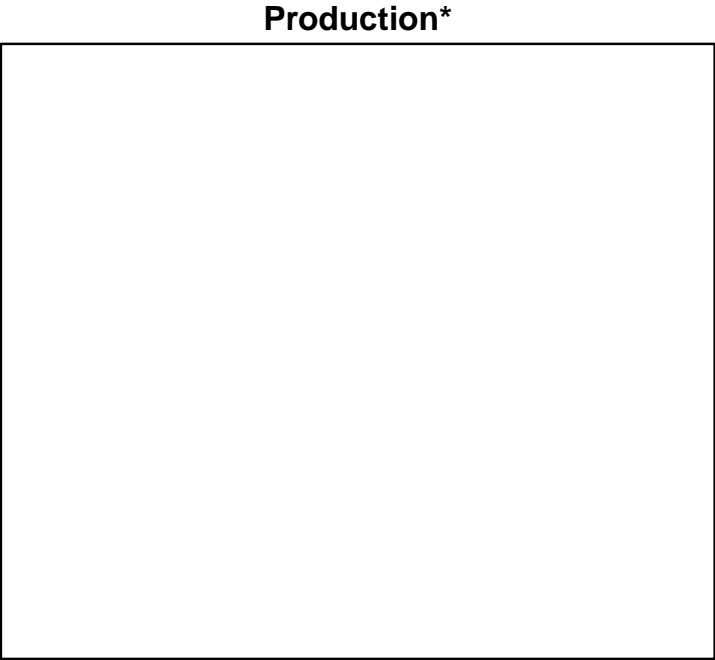
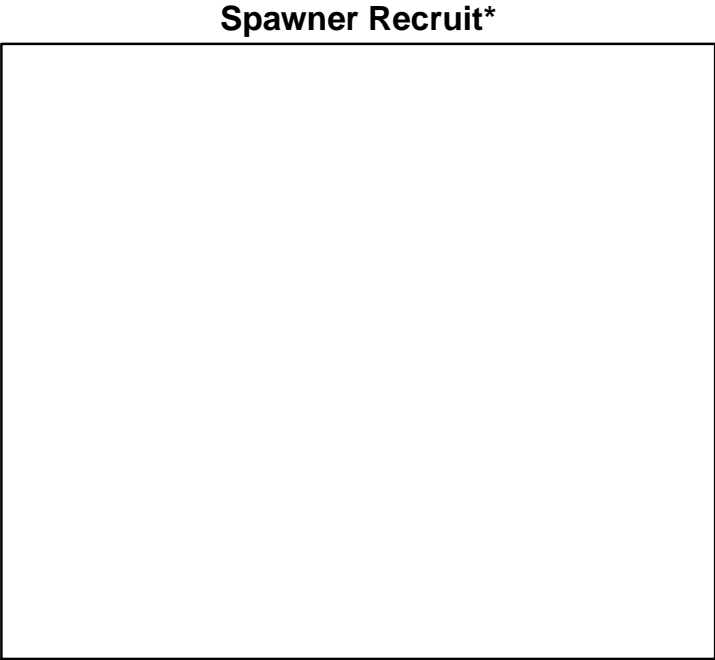
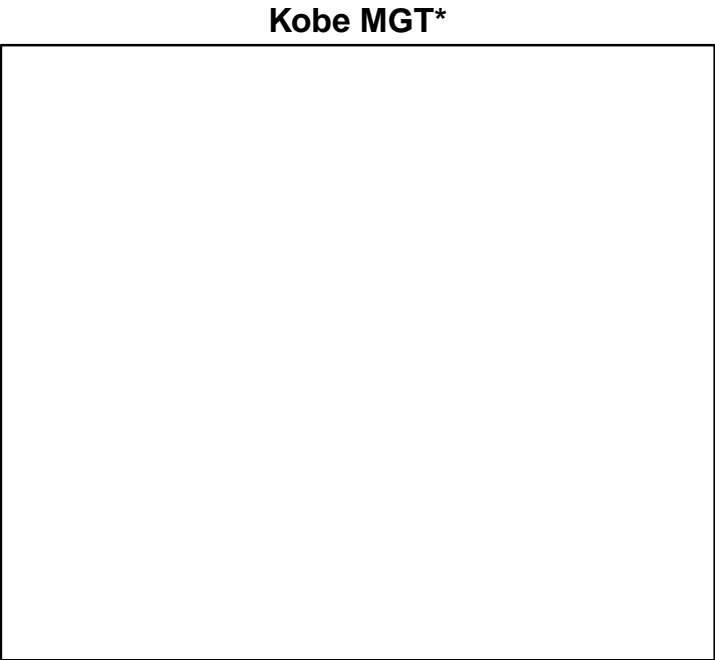
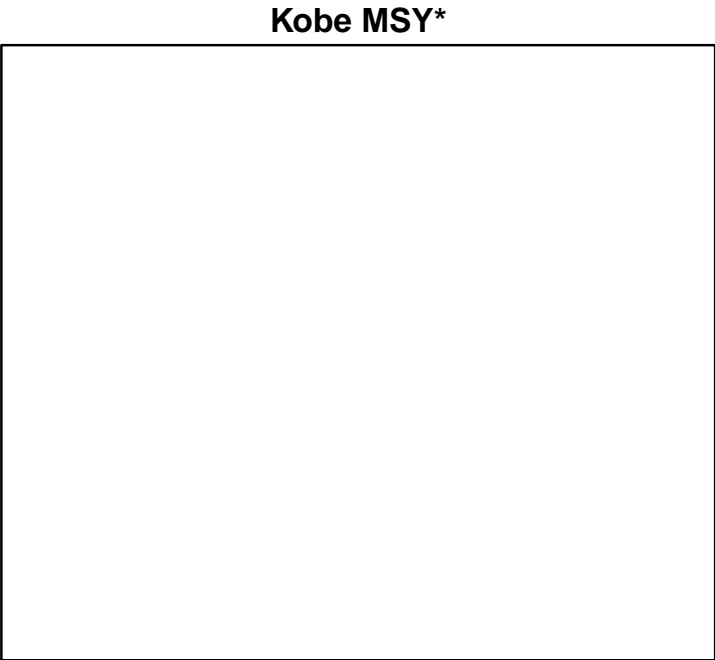
* No Data

European Plaice VIII and IXa [PLAICVIII-IXa]

Metadata	
Scientific Name	Pleuronectes platessa
Current Assess ID	WGBIE-PLAICVIII-IXa-1994-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

European Plaice VIII and IXa [PLAICVIII–IXa]

TB*



SSB*



TN *



F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

—

MORAT

*

No Data

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

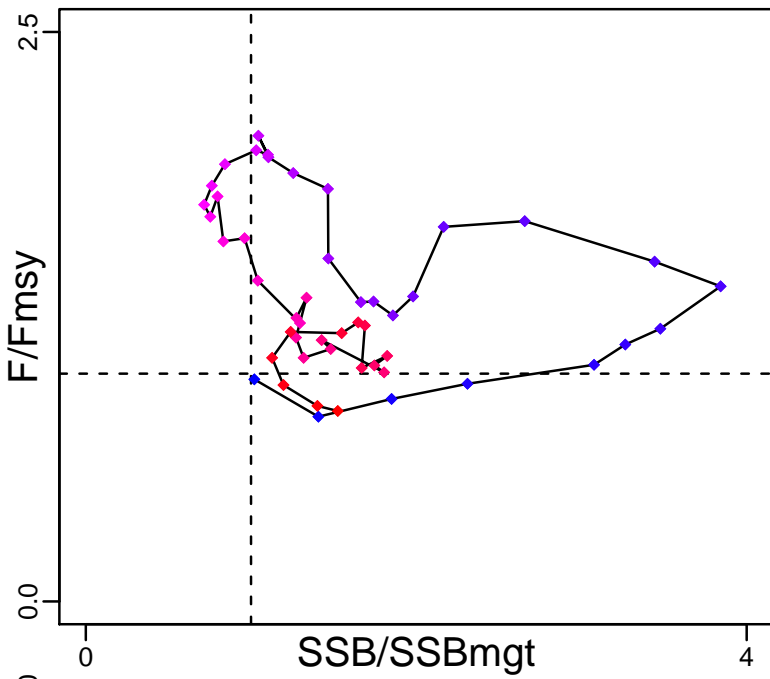
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	WGNSSK-POLLNS-VI-IIIa-1964-2016-ICESIMP2016
Area	IIIa, VI and North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2012, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	1,503,751
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.36
ERmsy	ERmsy-est-ratio	2015	0.17
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	150,000
Fmgt	Fmgt-1/yr	2016	0.36
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	2×10^5
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	107,000
Flim	Flim-1/yr	2016	0.56
ERlim	-	-	-

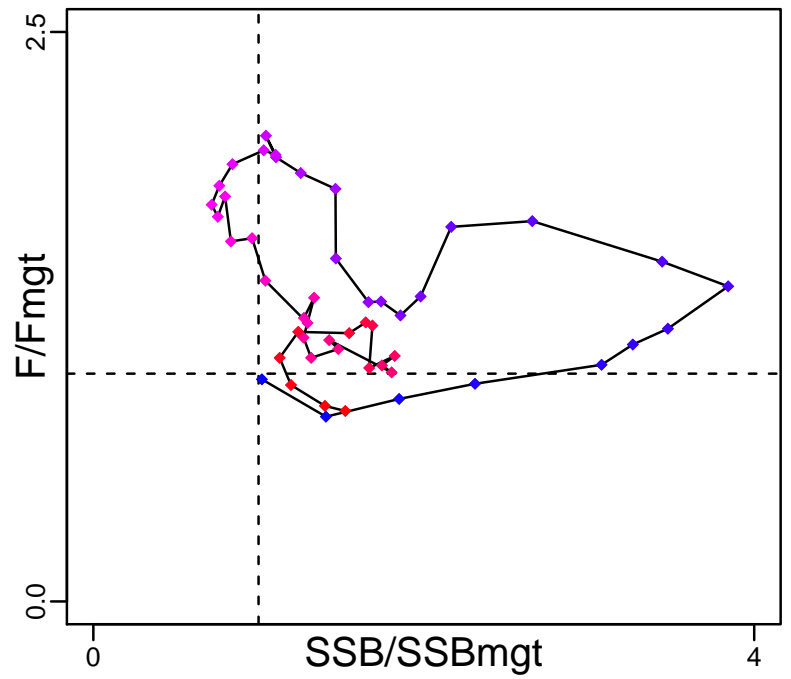
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.22	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2015	1.5	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

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

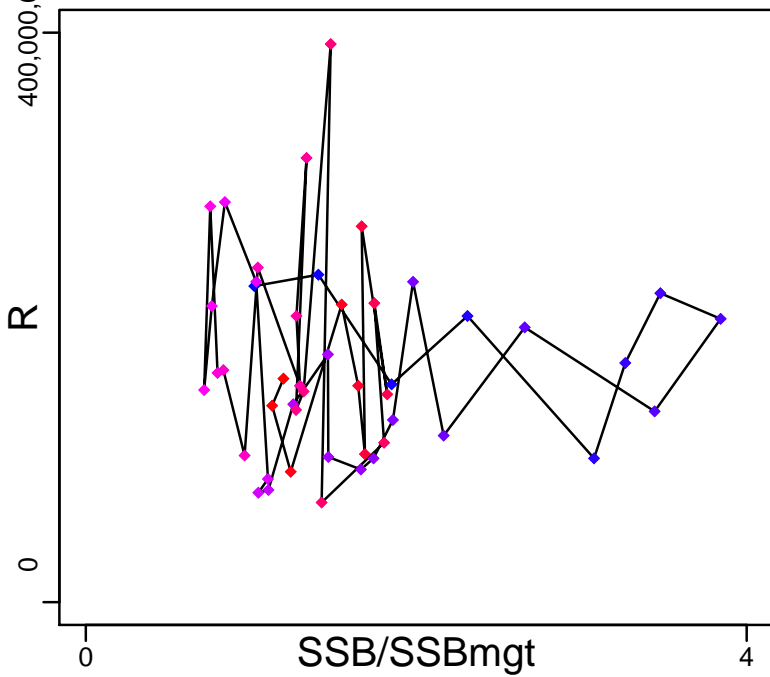
Kobe MSYpref (1964–2016–ICESIMP2016)



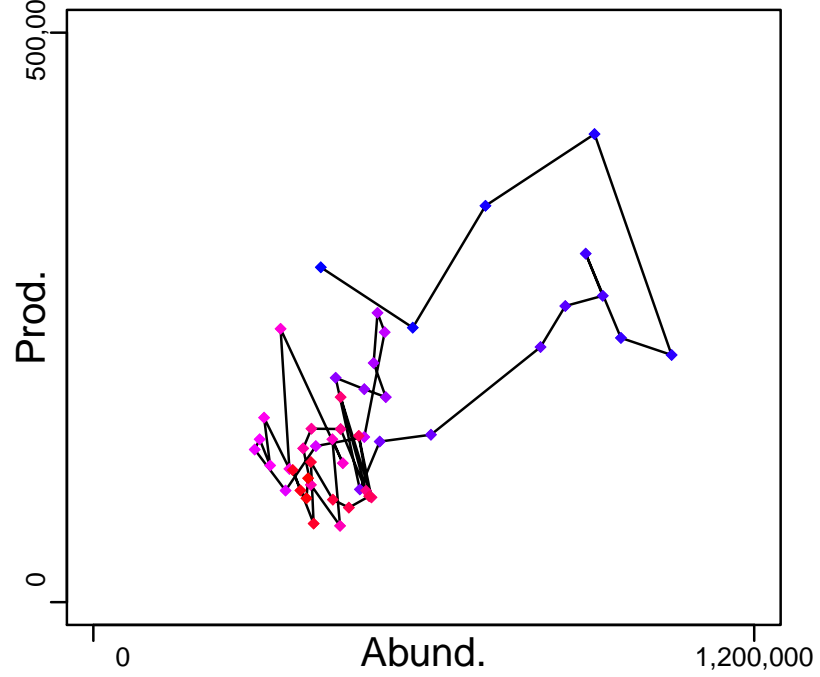
Kobe MGTpref (1964–2016–ICESIMP2016)



Spawner Recruit (1964–2016–ICESIMP2016)



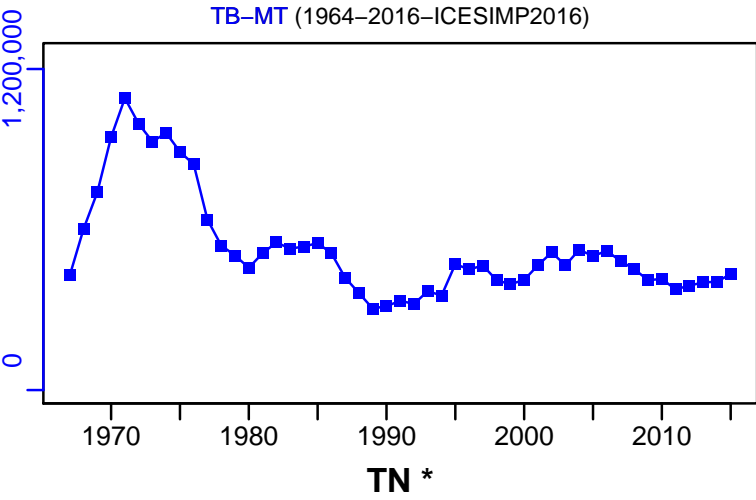
Production (1964–2016–ICESIMP2016)



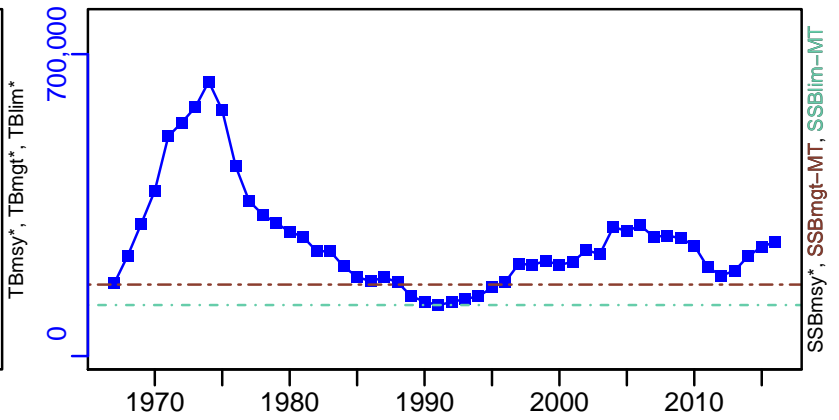
◆ Start Year ◆ End Year * No Data

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

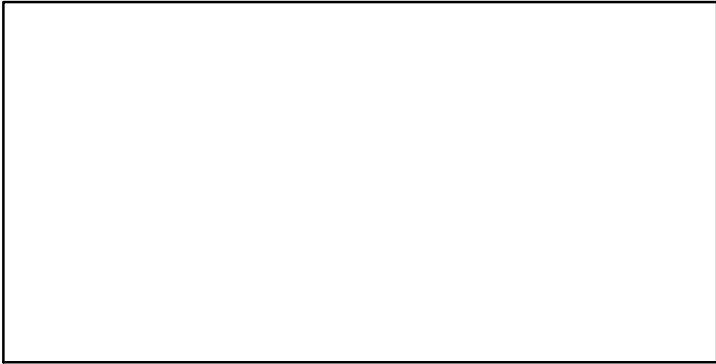
TB-MT (1964–2016–ICESIMP2016)



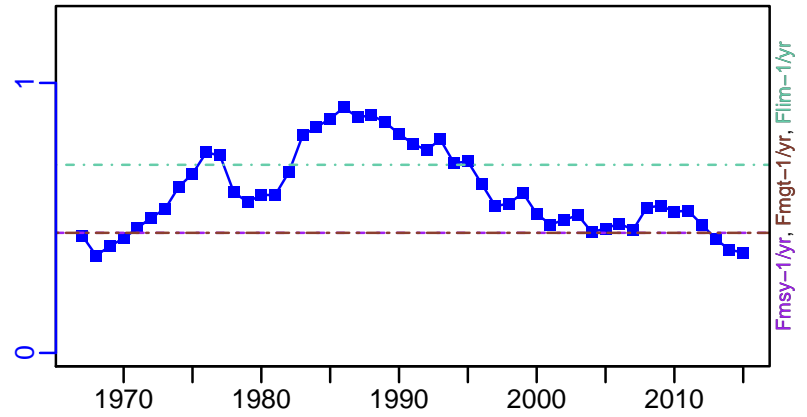
SSB-MT (1964–2016–ICESIMP2016)



TN *

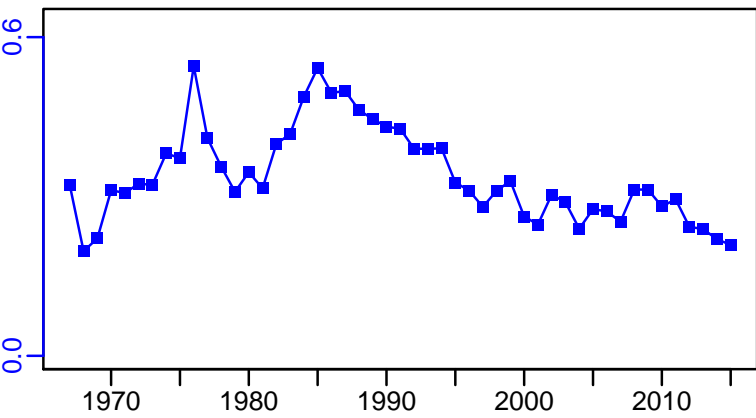


F-1/yr (1964–2016–ICESIMP2016)

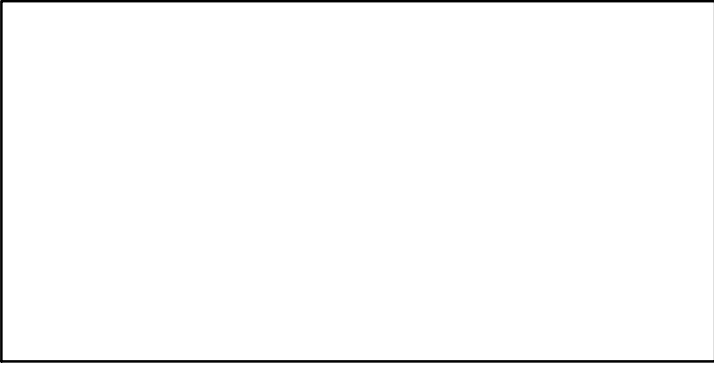


Recruits*

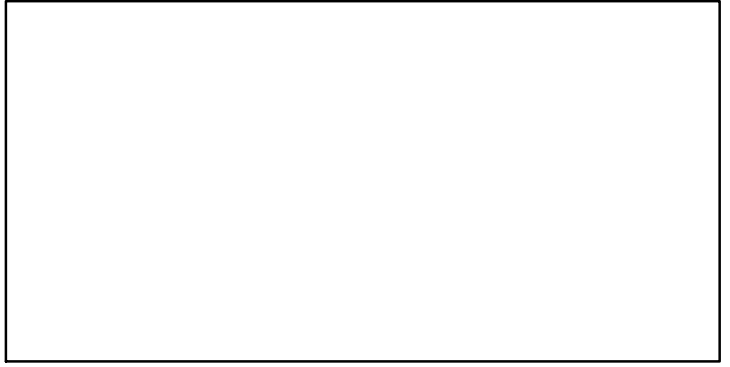
ER-calc-ratio (1964–2016–ICESIMP2016)



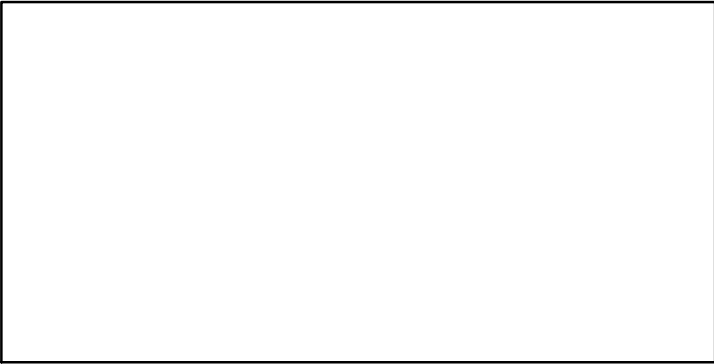
TC*, TL*, RecC*



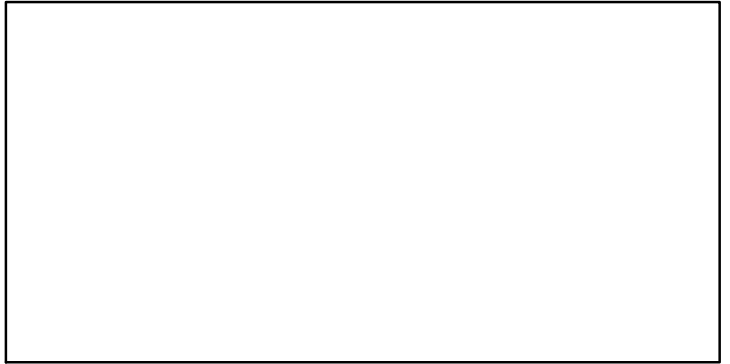
TAC*, Cpair*, Cadv*



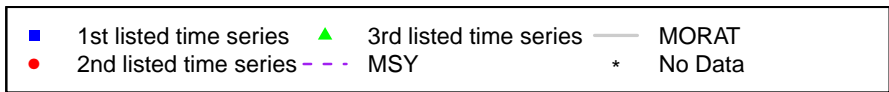
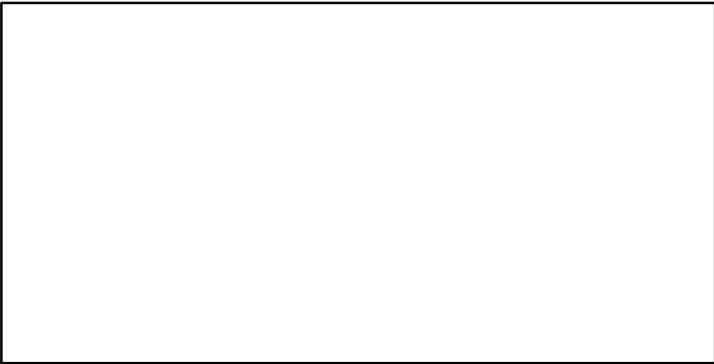
survB*



CPUE*



EFFORT*



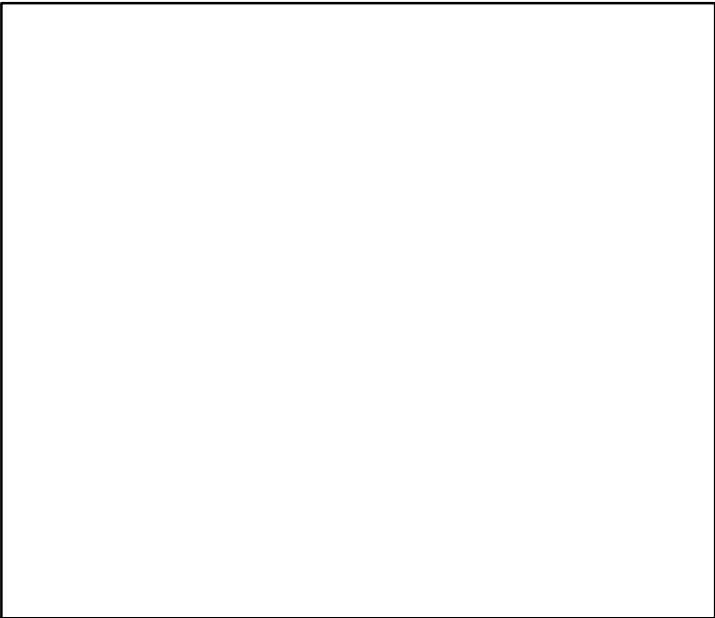
Red seabream IX [RBRMIX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMIX-1983-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	2016	295		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

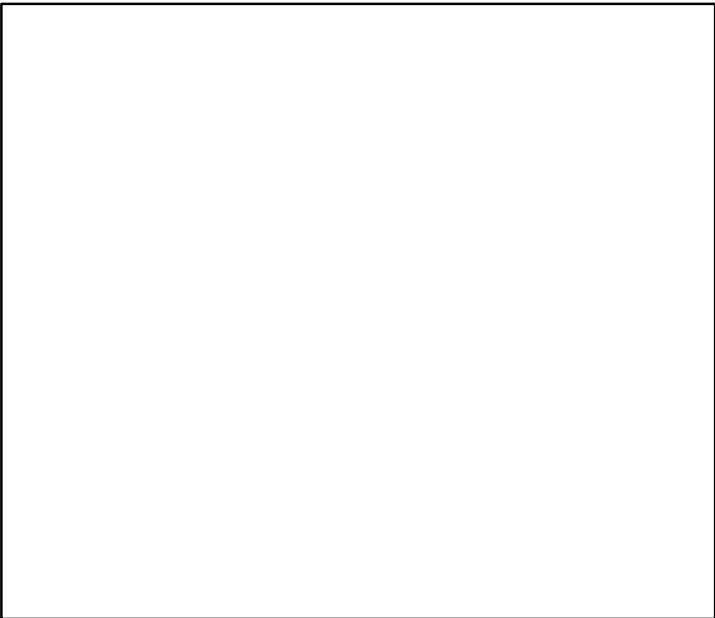
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red seabream IX [RBRMIX]

TB*



SSB*



TN *



F*



ER*

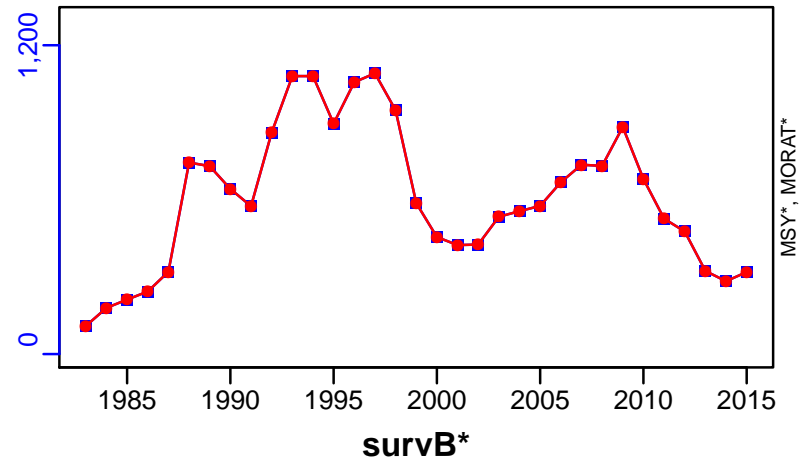


Recruits*



Red seabream IX [RBRMIX]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMVI-VII-VIII-1948-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

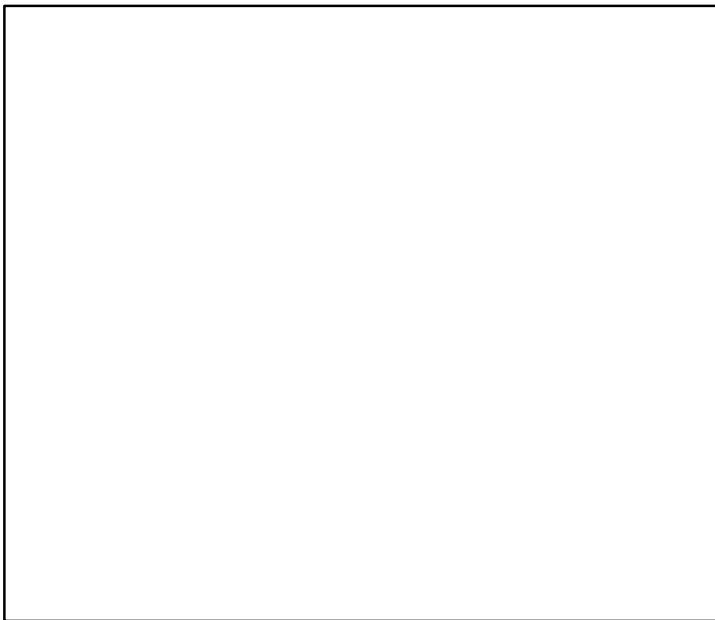
Kobe MSY*



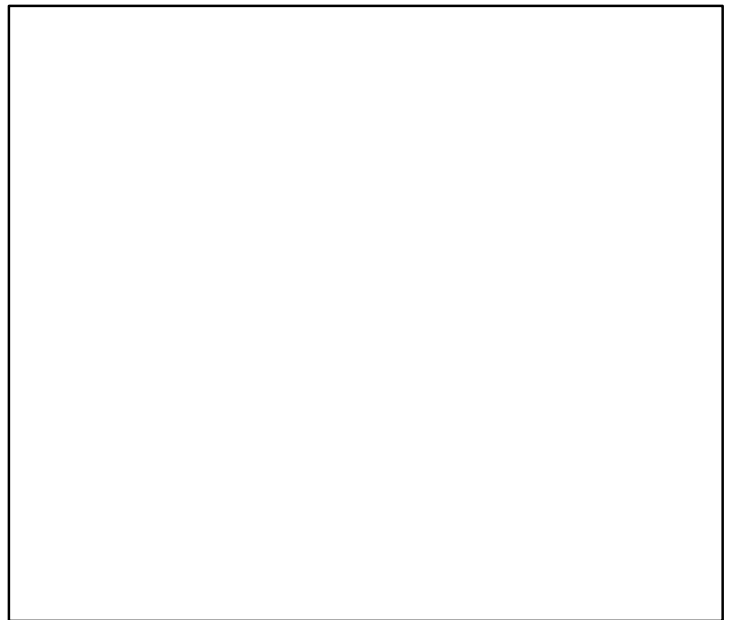
Kobe MGT*



Spawner Recruit*



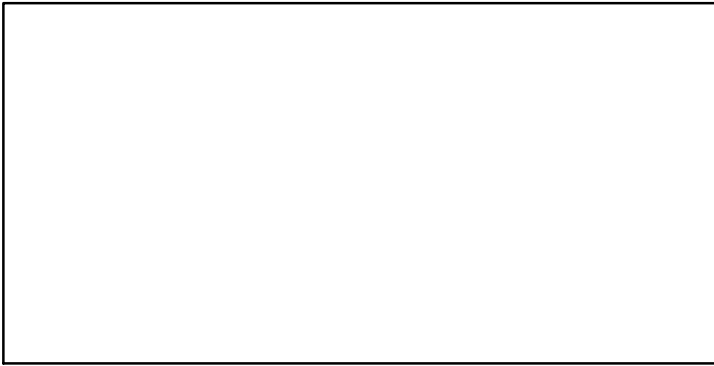
Production*



◆ Start Year ◆ End Year * No Data

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

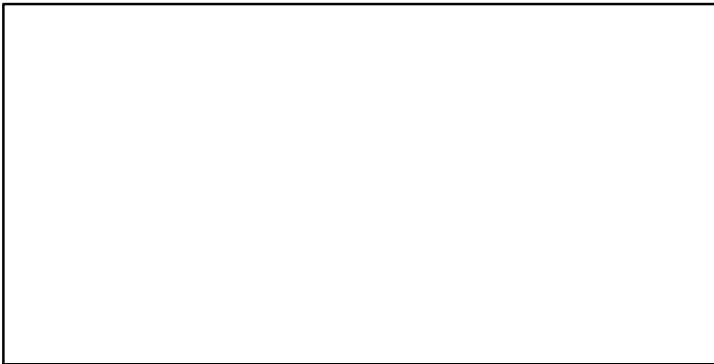
TB*



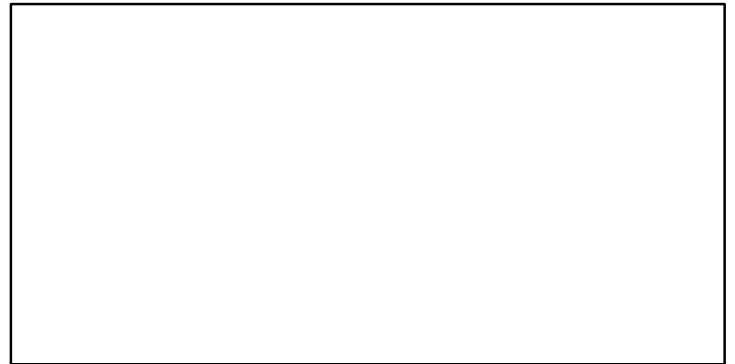
SSB*



TN *



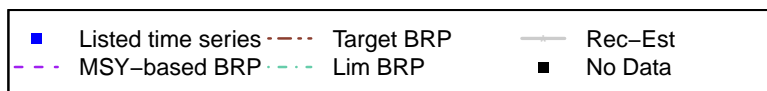
F*



ER*

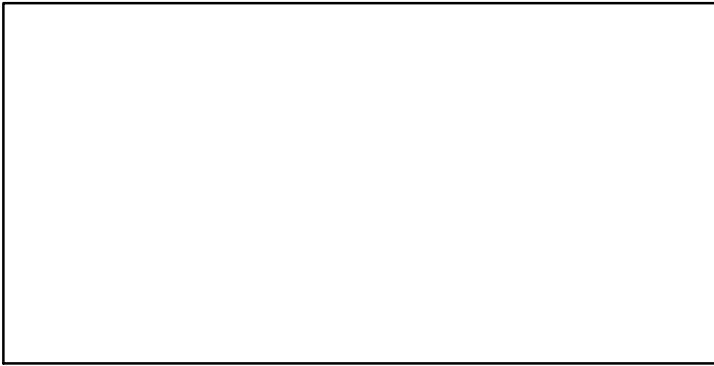


Recruits*

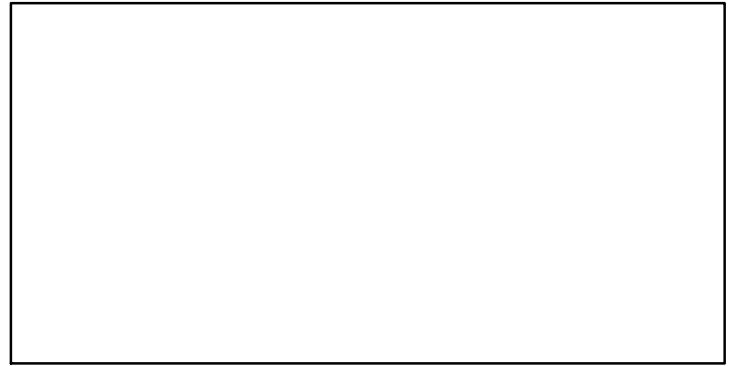


Red seabream VI–VII–VIII [RBRMVI–VII–VIII]

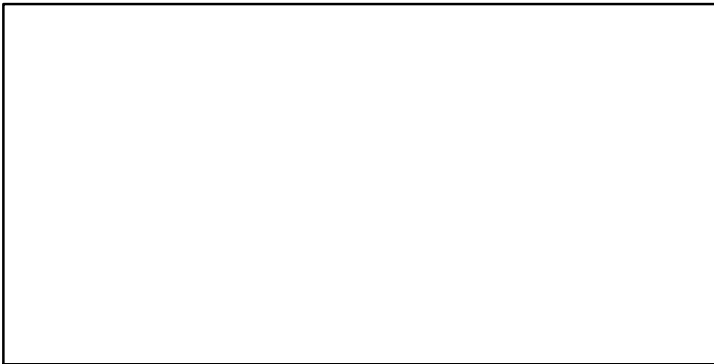
TC*, TL*, RecC*



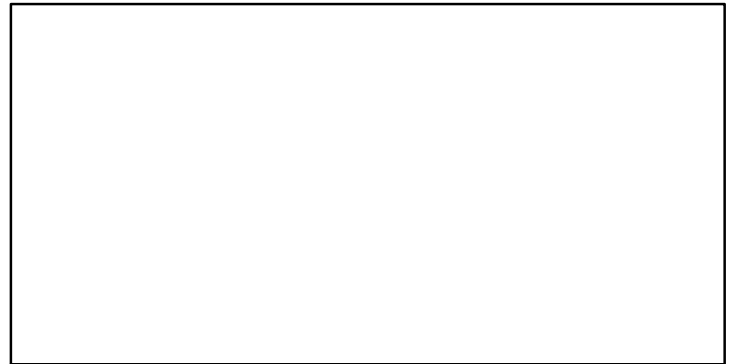
TAC*, Cpair*, Cadv*



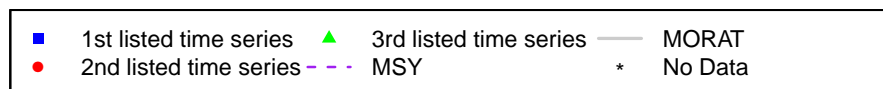
survB*



CPUE*



EFFORT*



Red seabream Azores Grounds [RBRMX]

Metadata	
Scientific Name	Pagellus bogaraveo
Current Assess ID	WGDEEP-RBRMX-1980-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	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*



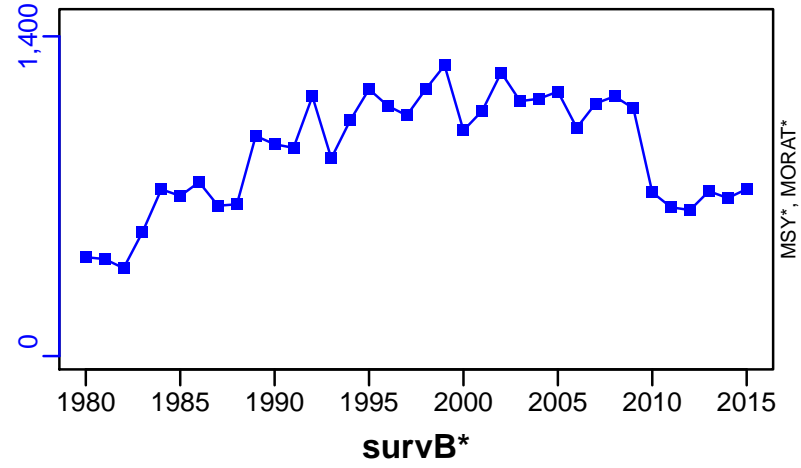
Recruits*



Red seabream Azores Grounds [RBRMX]

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

TAC*, Cpair*, Cadv*



CPUE*

EFFORT*

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

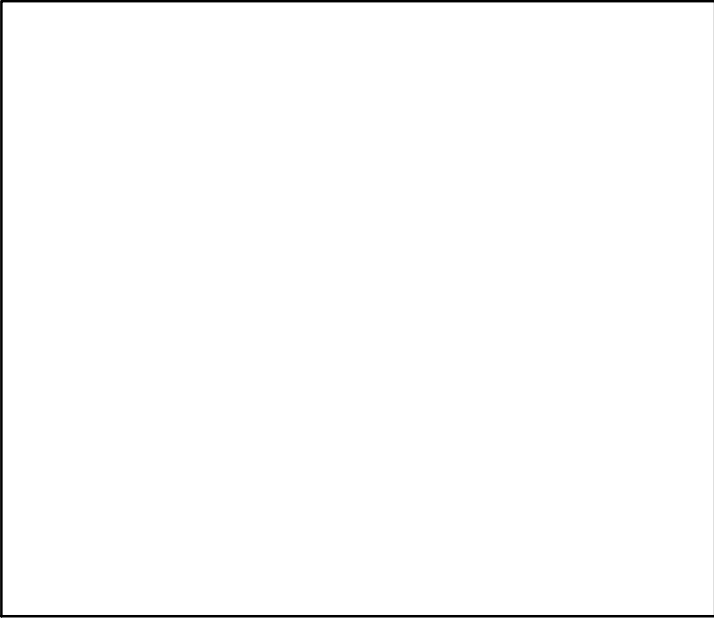
Beaked Redfish Areas V-XII-XIV and NAFO Subareas 1-2
[REDDEEPSH1-2-V-XII-XIV]

Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPSH1-2-V-XII-XIV-1982-2016-ICESIMP2016
Area	Areas V-XII-XIV and NAFO Subareas 1-2
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
Asmts in RAM	2016

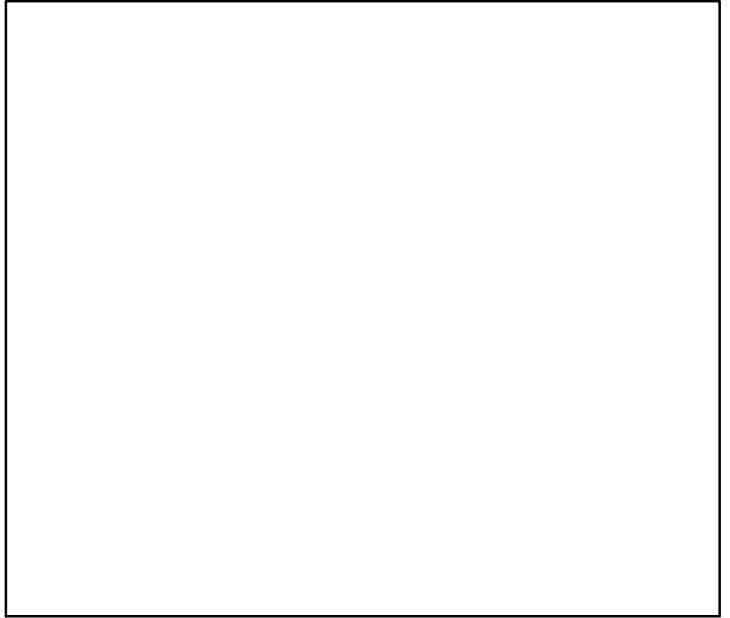
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

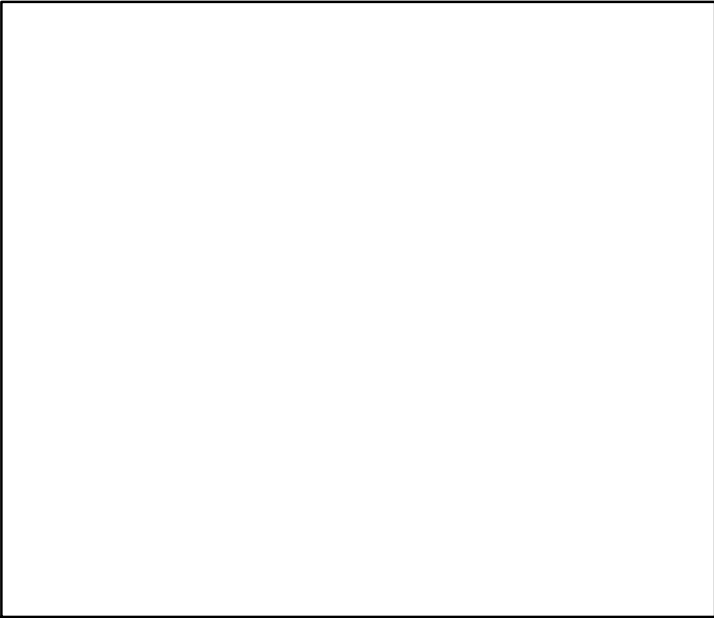
Kobe MSY*



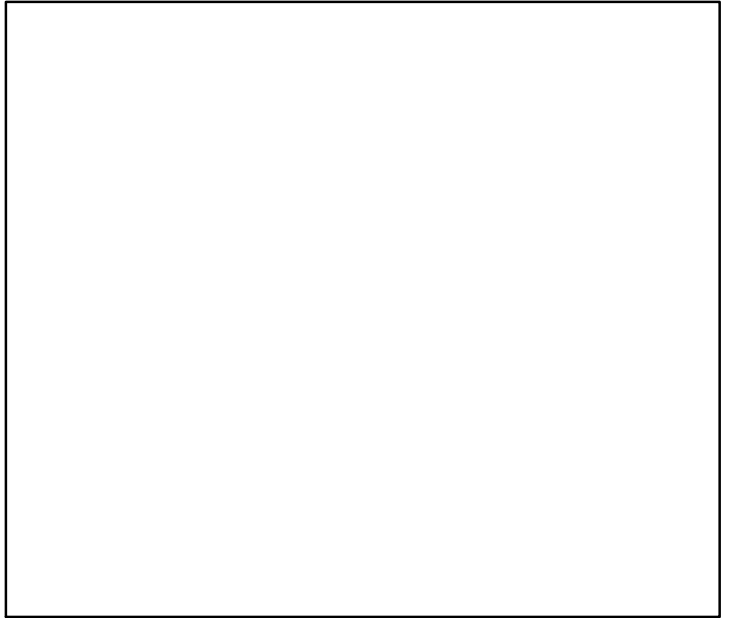
Kobe MGT*



Spawner Recruit*



Production*



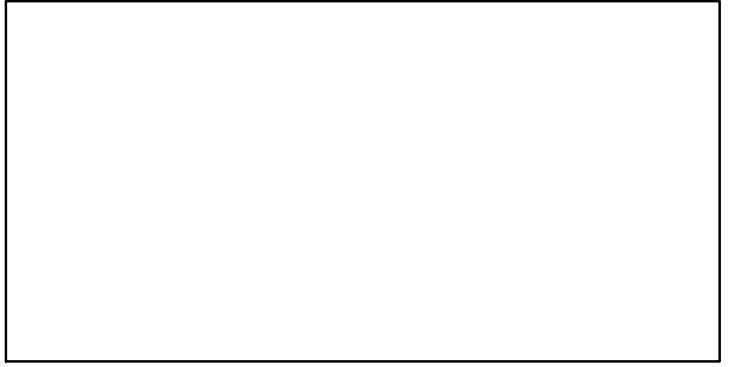
◆ Start Year ◆ End Year * No Data

Beaked Redfish Areas V–XII–XIV and NAFO Subareas 1–2 [REDDEEPSH1–2–V–XII–XIV]

TB*



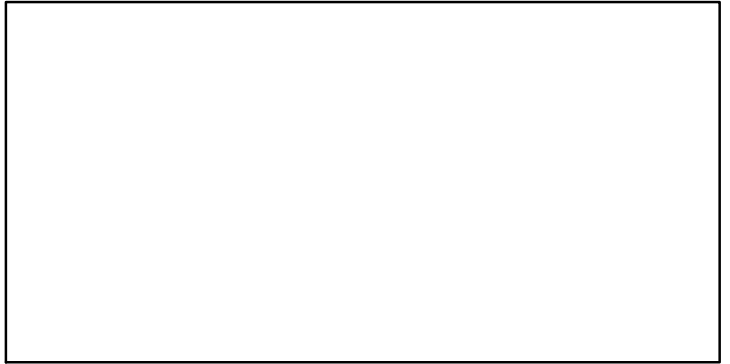
SSB*



TN *



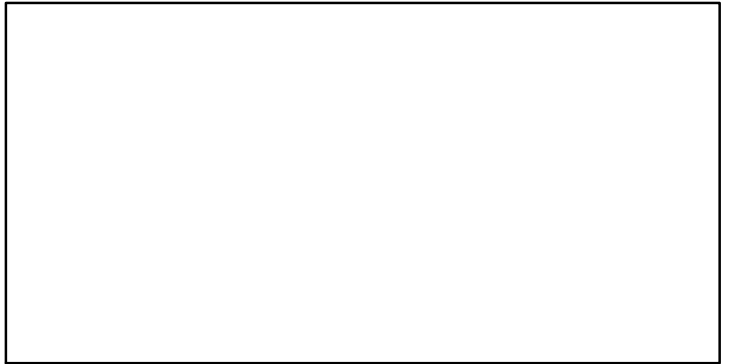
F*



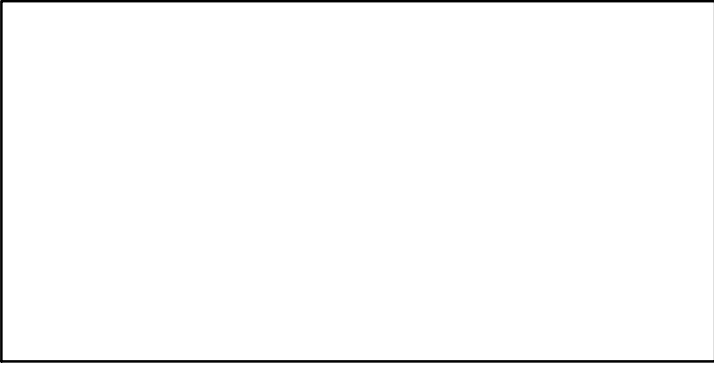
ER*



Recruits*



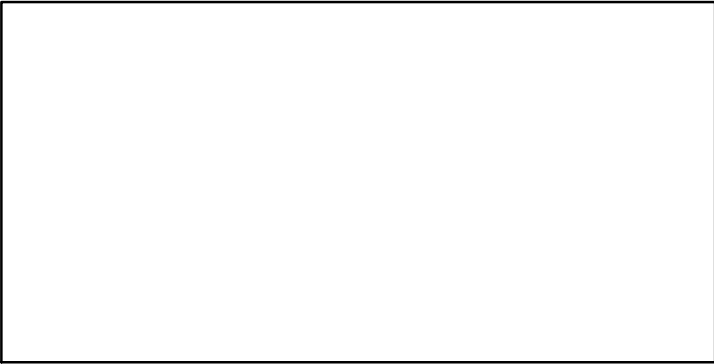
TC*, TL*, RecC*



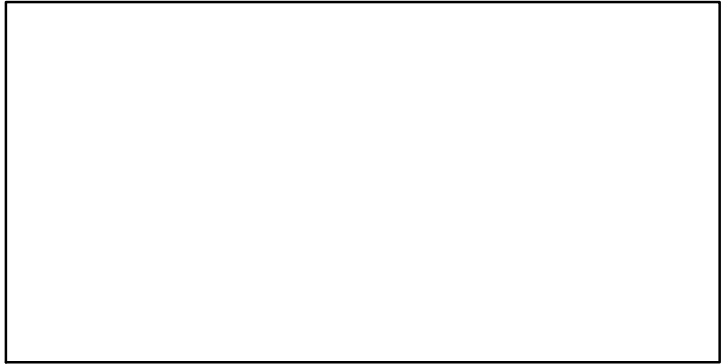
TAC*, Cpair*, Cadv*



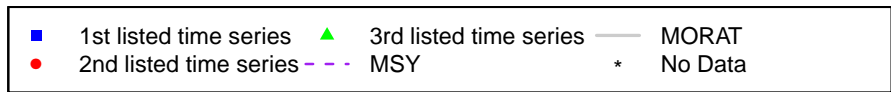
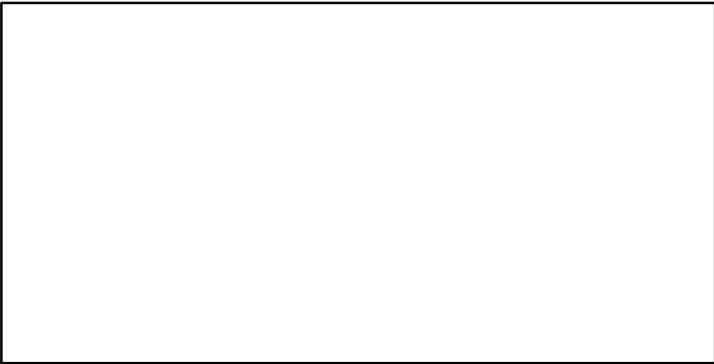
survB*



CPUE*



EFFORT*



Beaked Redfish Southeast Greenland [REDDEEPXIVb]

Metadata	
Scientific Name	Sebastes mentella
Current Assess ID	NWWG-REDDEEPXIVb-1974-2016-ICESIMP2016
Area	Southeast Greenland
Management Authority	International Council for the Exploration of the Sea
Assessor	North-Western Working Group
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	5980		
TL	TL-MT	2016	5980		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

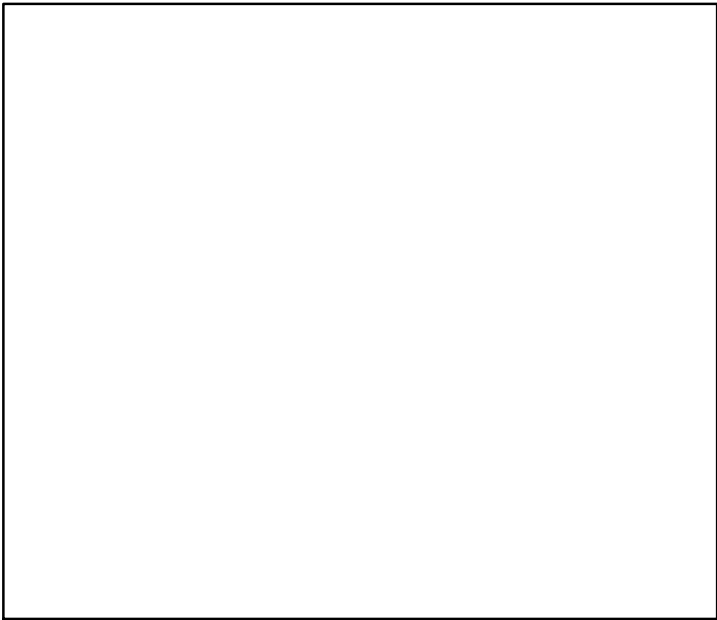
Kobe MSY*



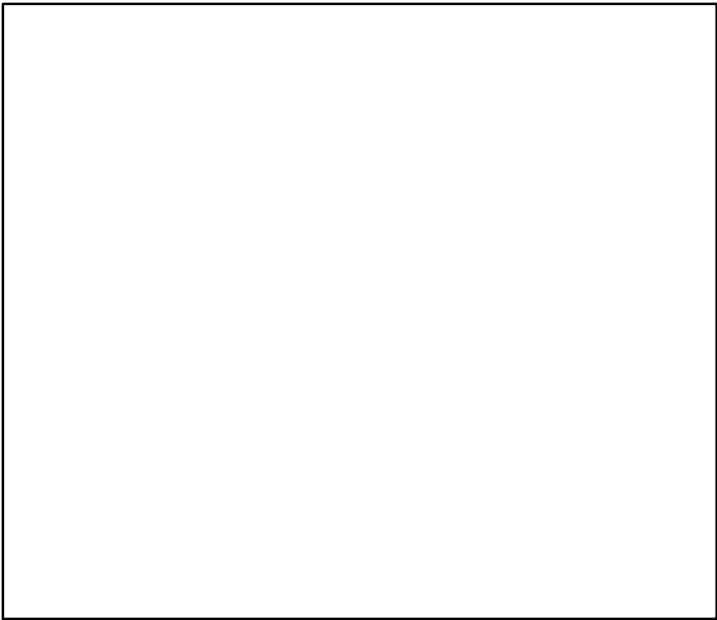
Kobe MGT*



Spawner Recruit*



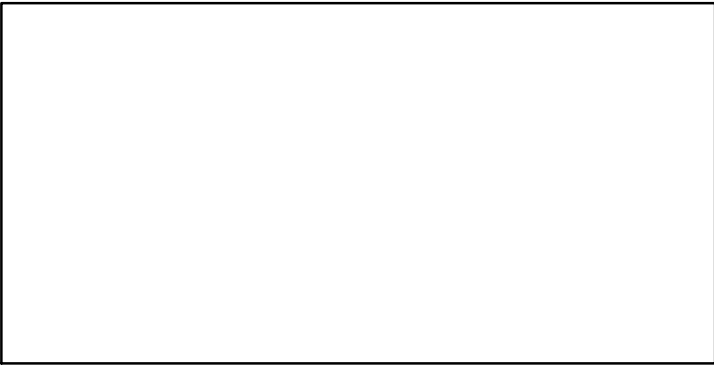
Production*



◆ Start Year ◆ End Year * No Data

Beaked Redfish Southeast Greenland [REDDEEPXIVb]

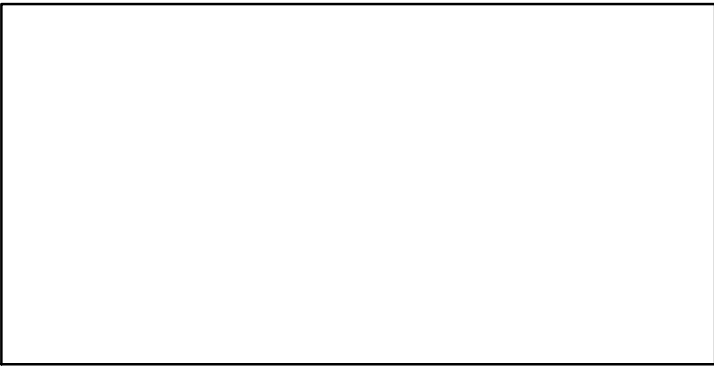
TB*



SSB*



TN *



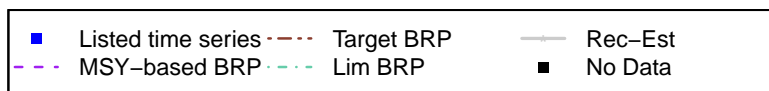
F*



ER*

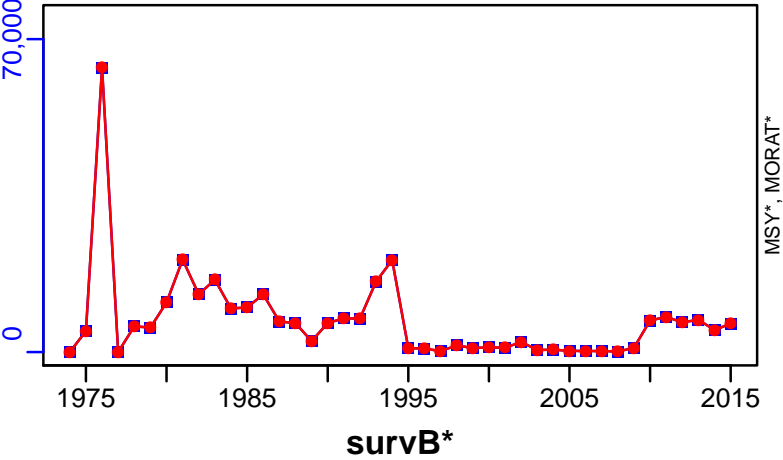


Recruits*



Beaked Redfish Southeast Greenland [REDDEEPXIVb]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Redfish species NAFO 1 [REDFISHSPP1]

Metadata	
Scientific Name	Sebastes spp
Current Assess ID	NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE
Area	West Greenland
Management Authority	Northwest Atlantic Fisheries Organization
Assessor	NAFO Scientific Council
Asmts in RAM	2004

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2004	500		
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*

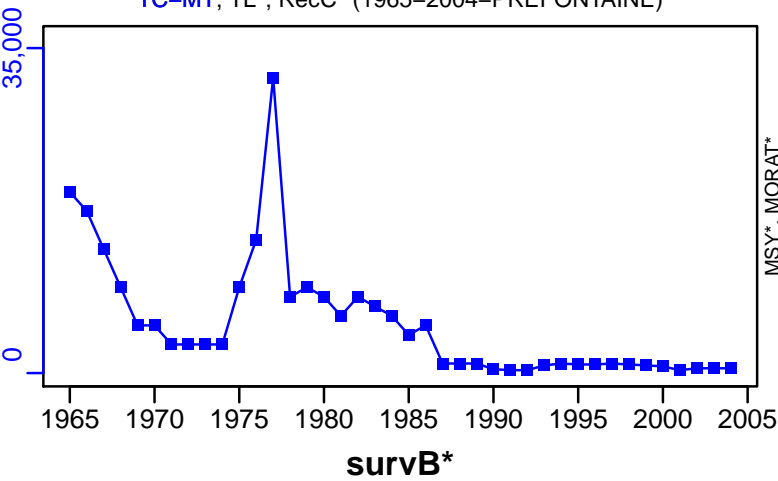


Recruits*

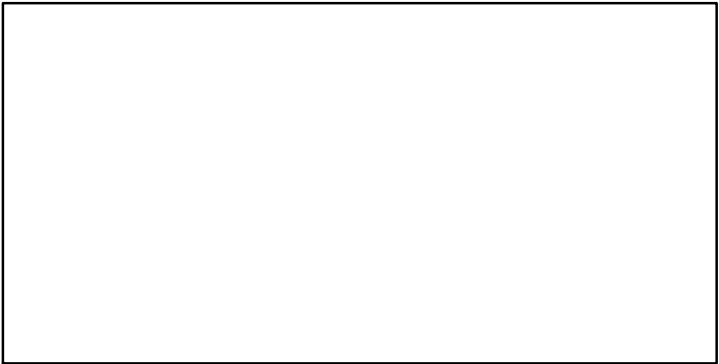


Redfish species NAFO 1 [REDFISHSPP1]

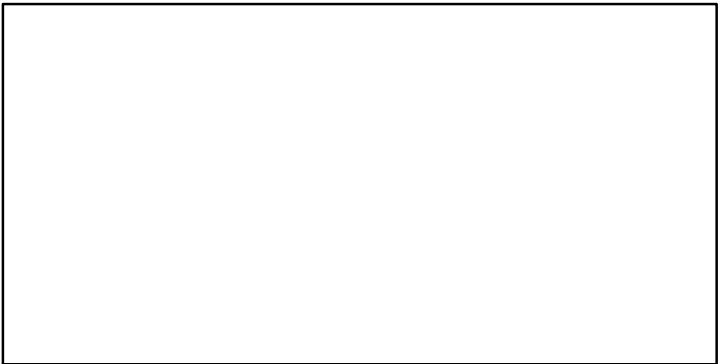
TC-MT, TL*, RecC* (1965-2004-PREFONTAINE)



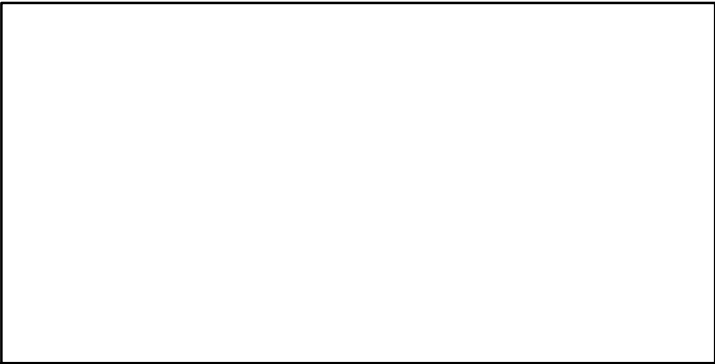
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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

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

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

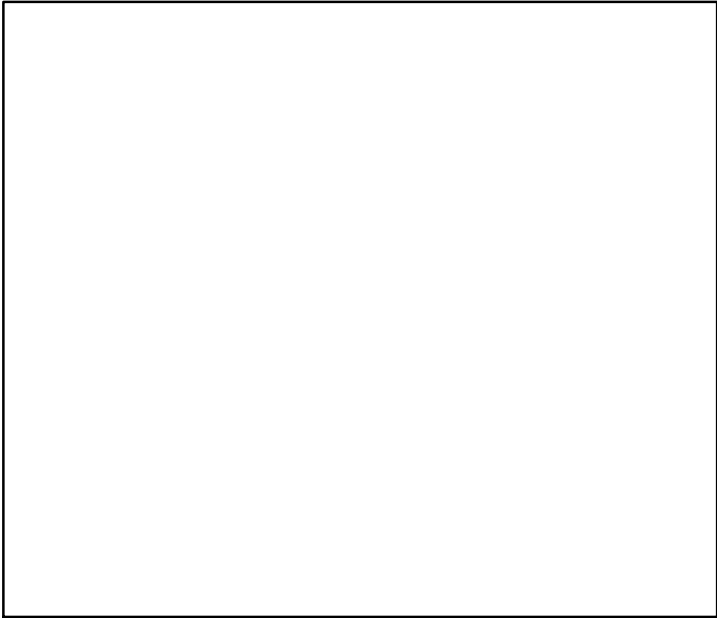
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



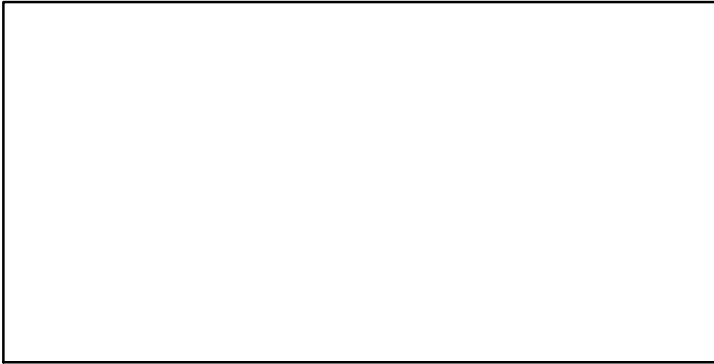
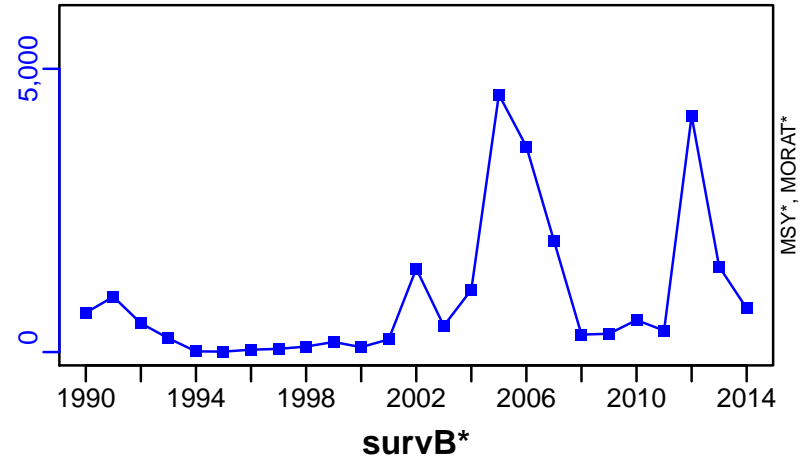
Recruits*



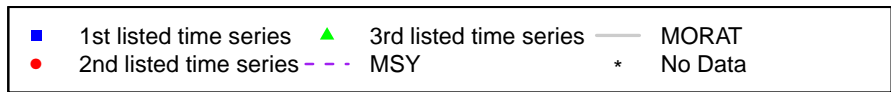
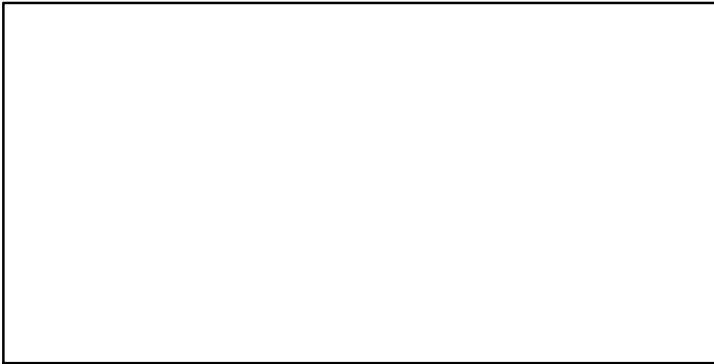
Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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

TAC*, Cpair*, Cadv*



EFFORT*



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-XIVab2-1990-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

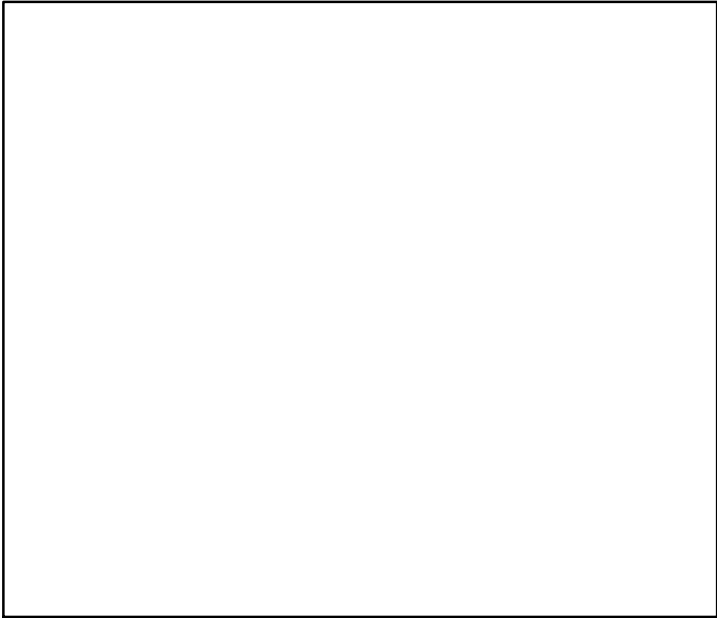
Kobe MSY*



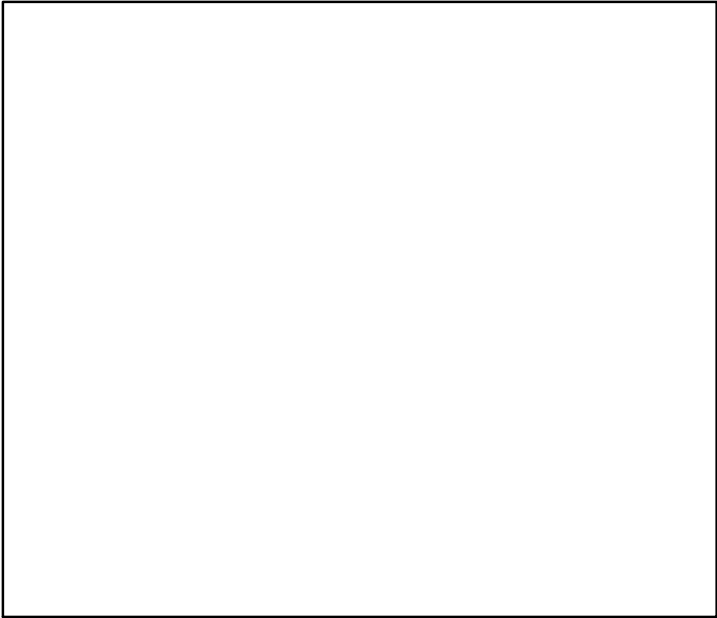
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



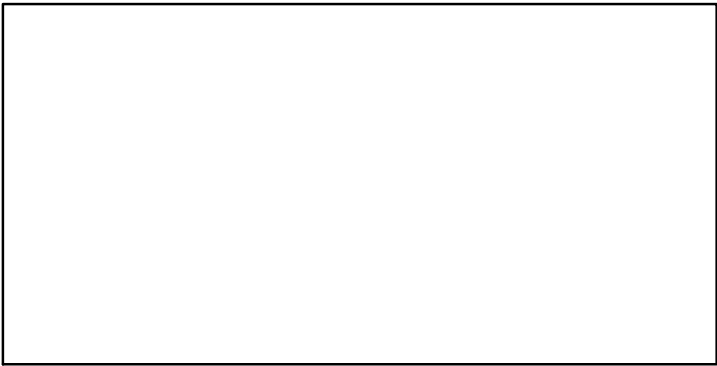
SSB*



TN *



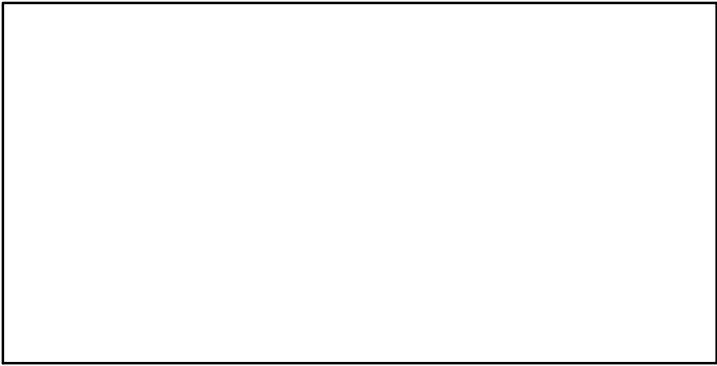
F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

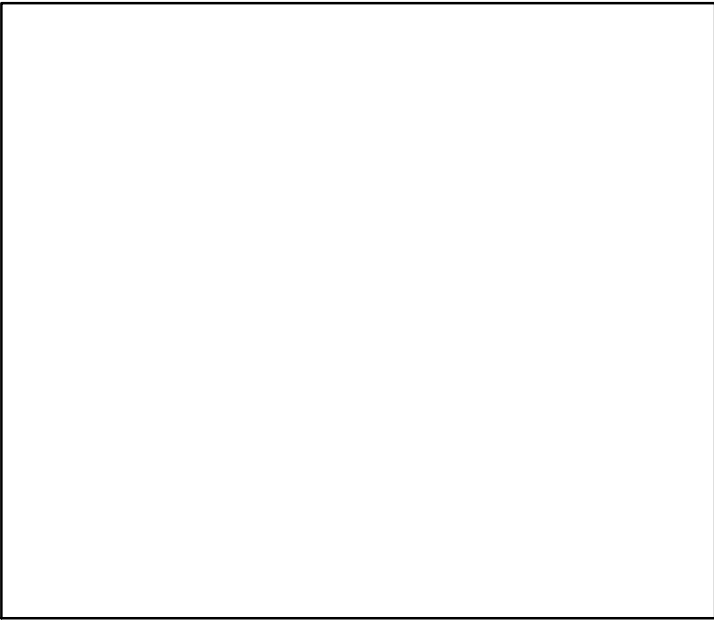
Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENMATLR-1980-2015-ICESIMP2016
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	2015

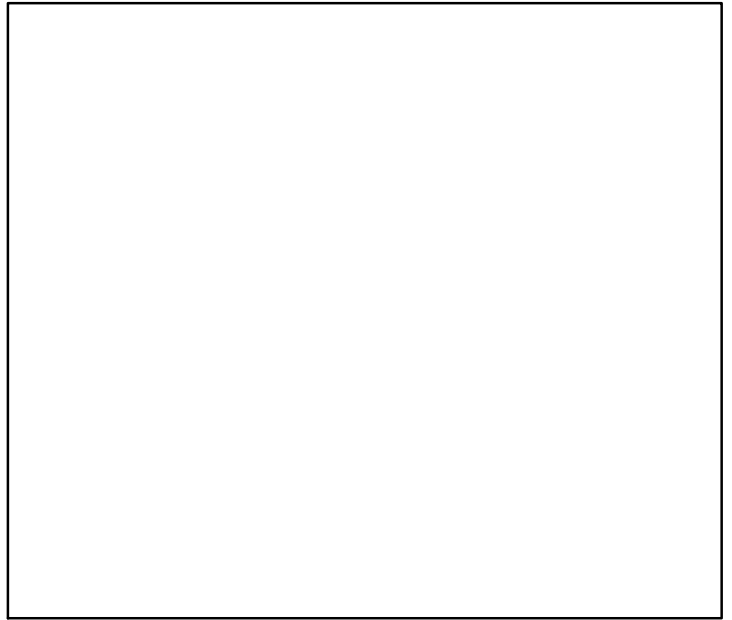
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	3480		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

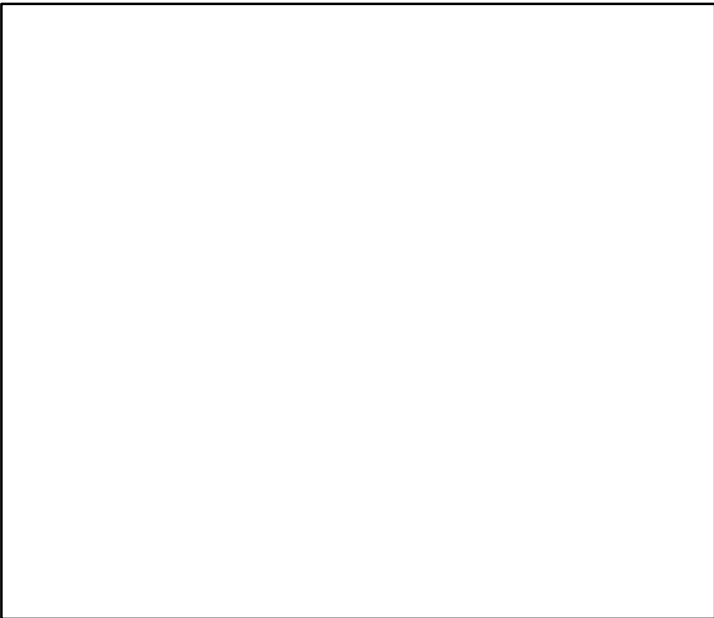
Kobe MSY*



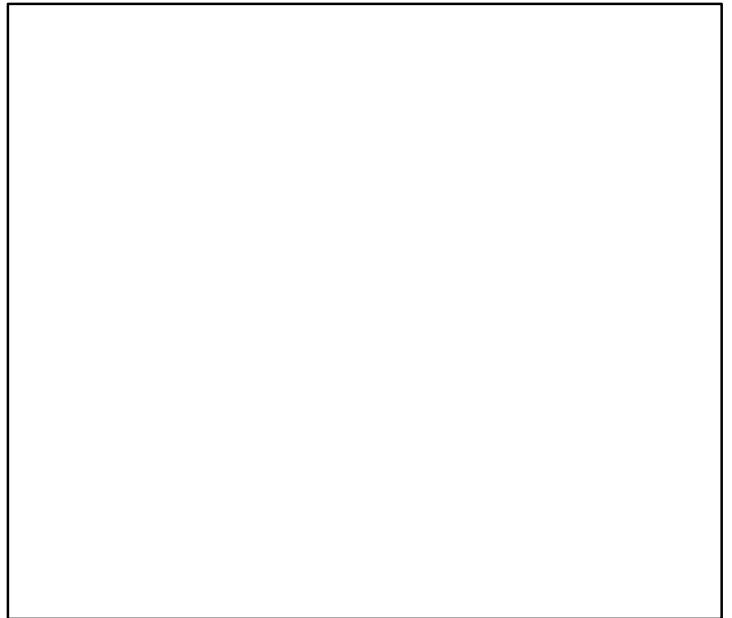
Kobe MGT*



Spawner Recruit*



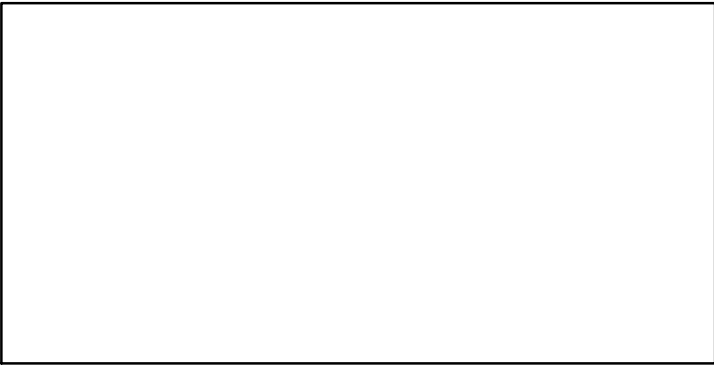
Production*



◆ Start Year ◆ End Year * No Data

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

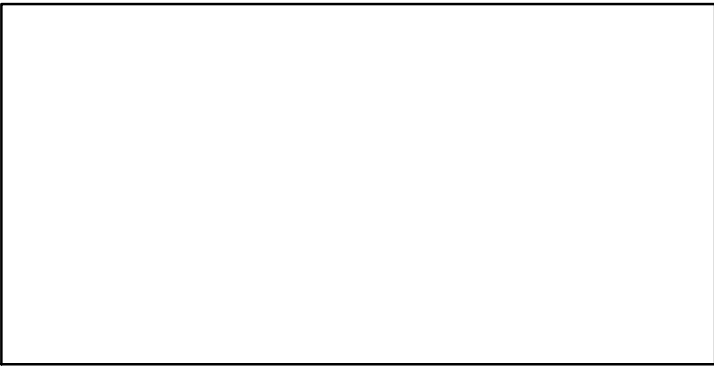
TB*



SSB*



TN *



F*



ER*



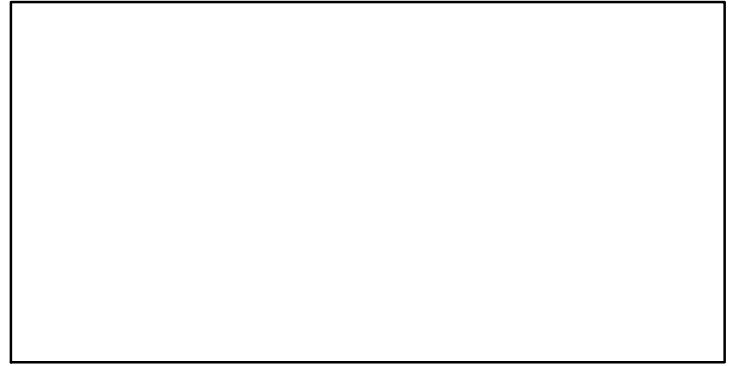
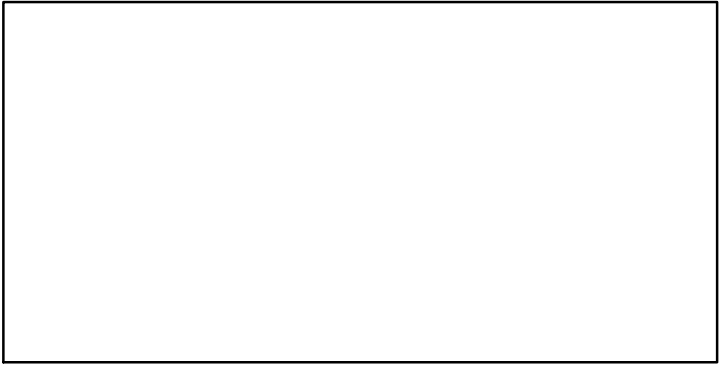
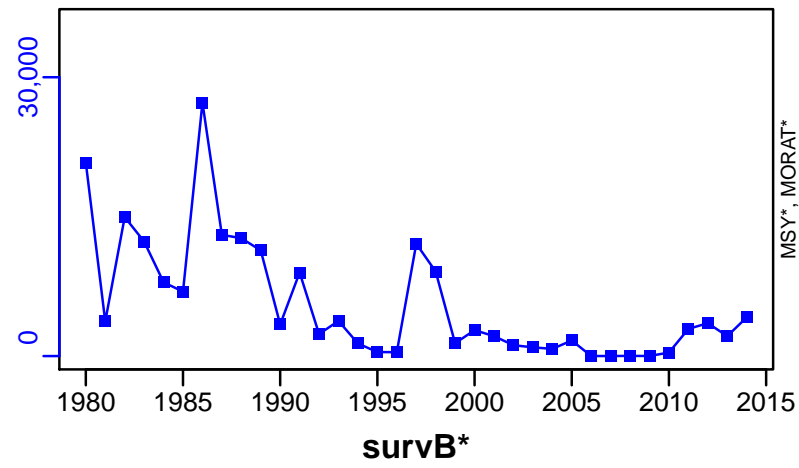
Recruits*



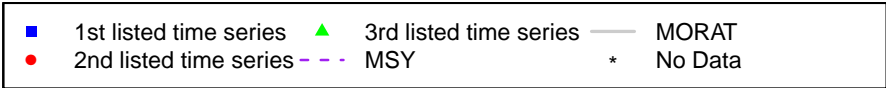
Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

TL-MT, TC*, RecC* (1980-2015-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



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

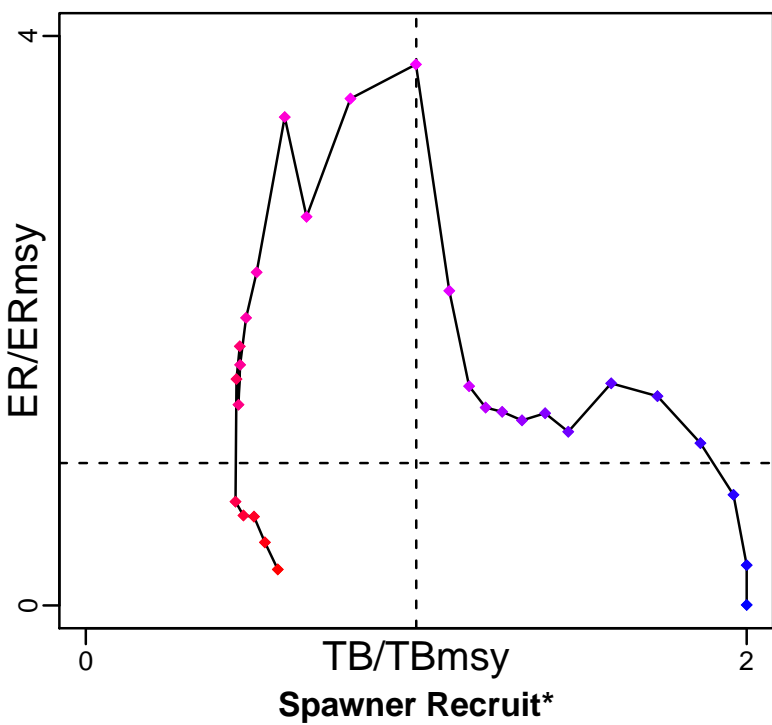
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGENVb-VI-VII-XIIb-1988-2016-ICESIMP2016
Area	Vb-VI-VII-XIIb
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016

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

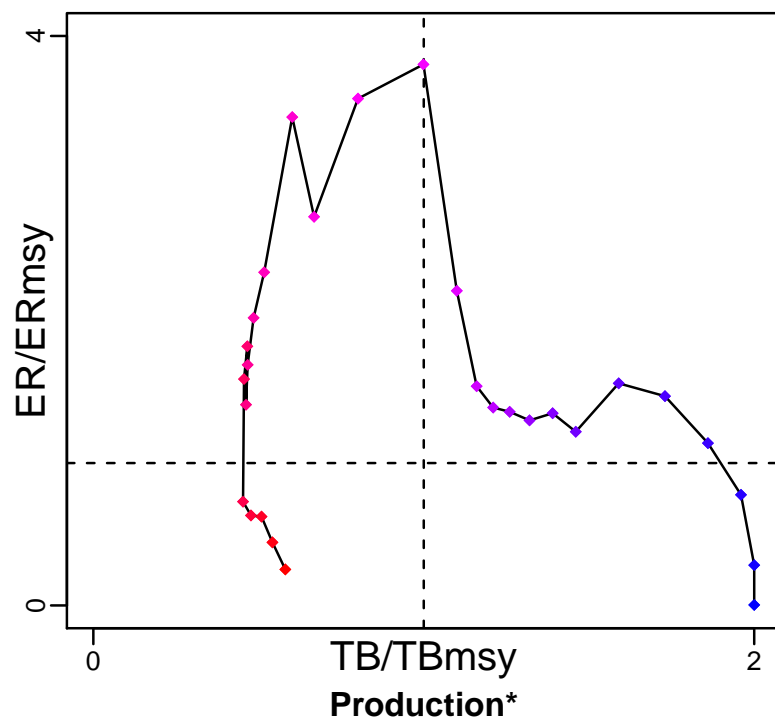
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.58		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2016	0.25		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Vb–VI–VII–XIlb [RNGENVb–VI–VII–XIlb]

Kobe MSYpref (1988–2016–ICESIMP2016)



Kobe MGTpref (1988–2016–ICESIMP2016)



◆ Start Year ◆ End Year * No Data

TB*



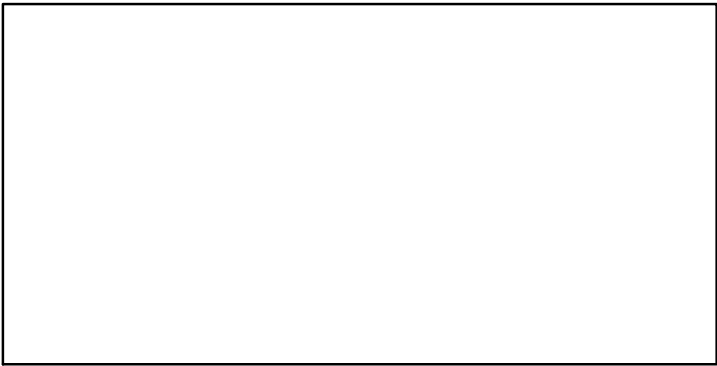
SSB*



TN *



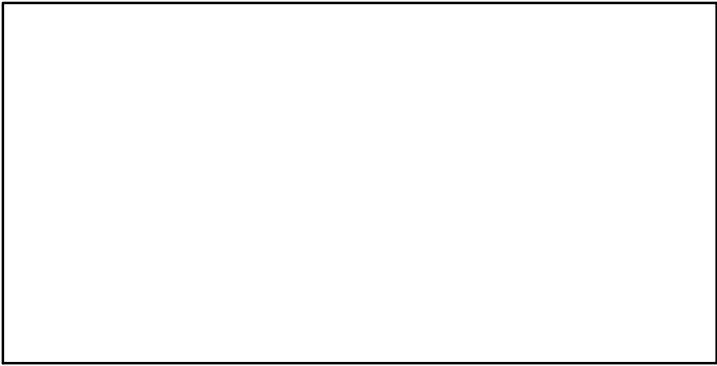
F*



ER*



Recruits*



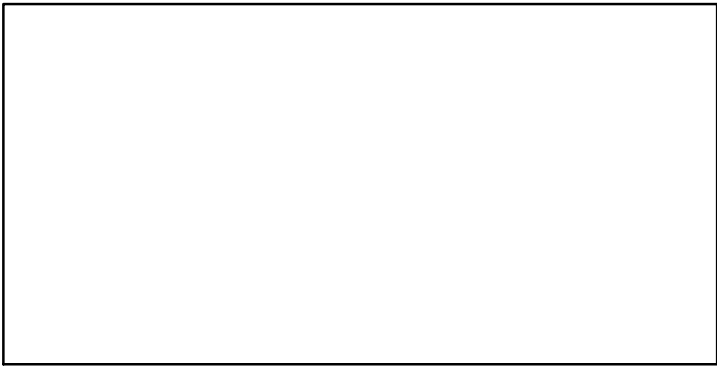
TC*, TL*, RecC*



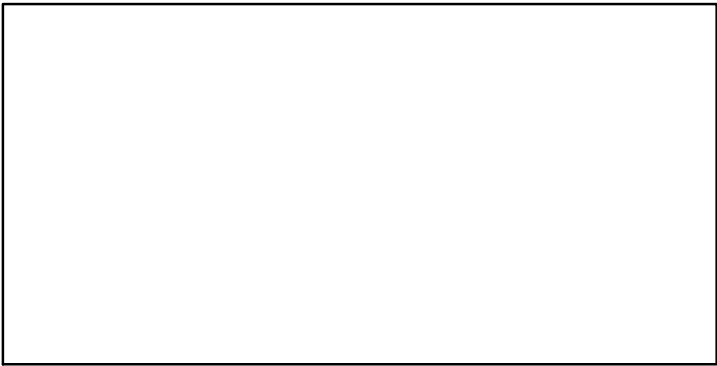
TAC*, Cpair*, Cadv*



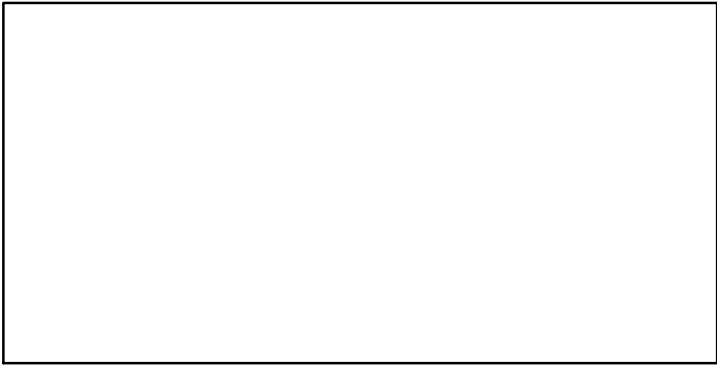
survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - - MSY

— MORAT

* No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

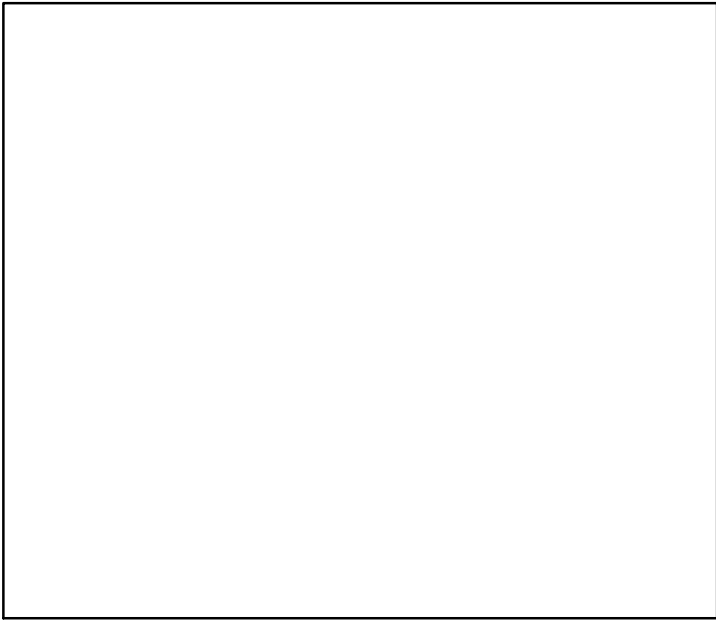
Metadata	
Scientific Name	Coryphaenoides rupestris
Current Assess ID	WGDEEP-RNGRENIIIa-1988-2016-ICESIMP2016
Area	Kattegat and Skagerrak
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
Asmts in RAM	2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	2016	1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

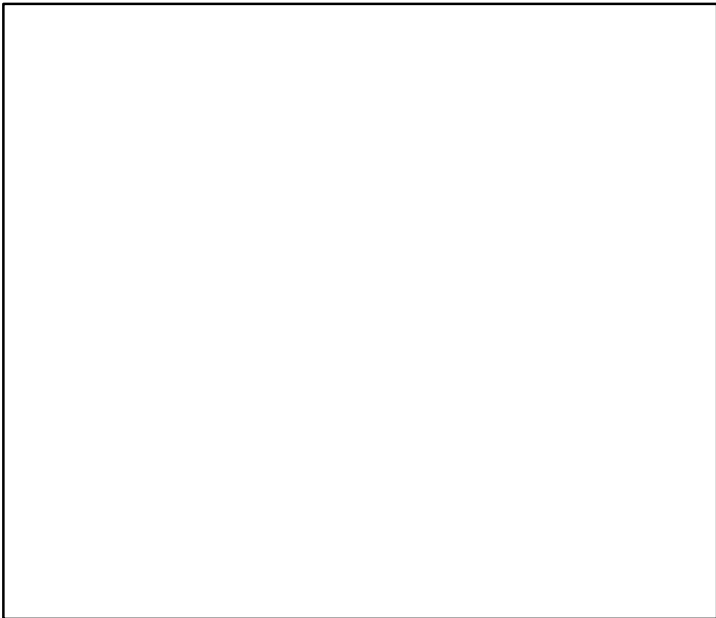
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

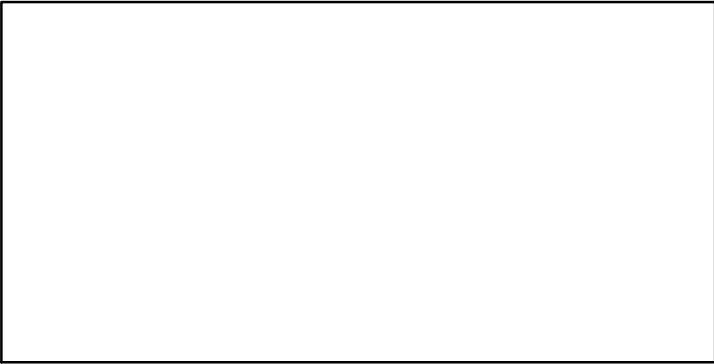
TB*



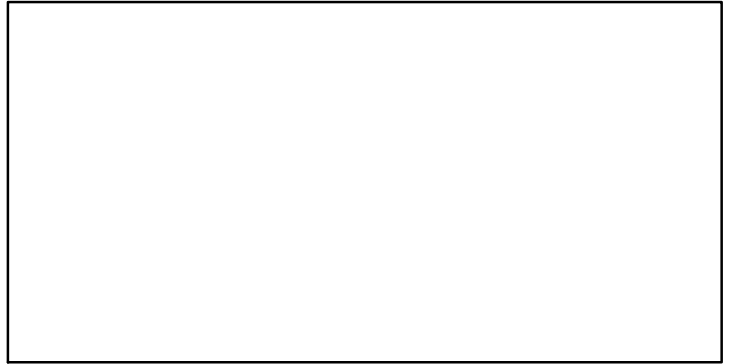
SSB*



TN *



F*



ER*



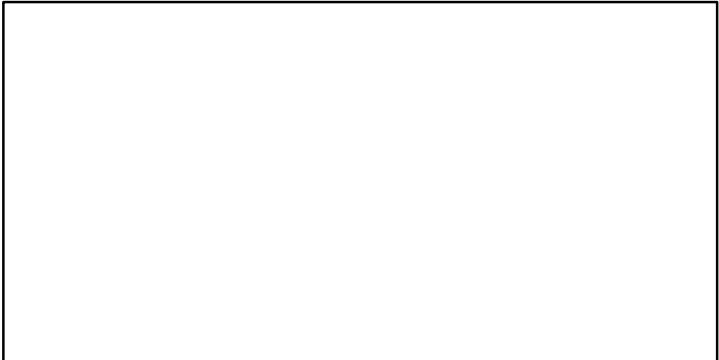
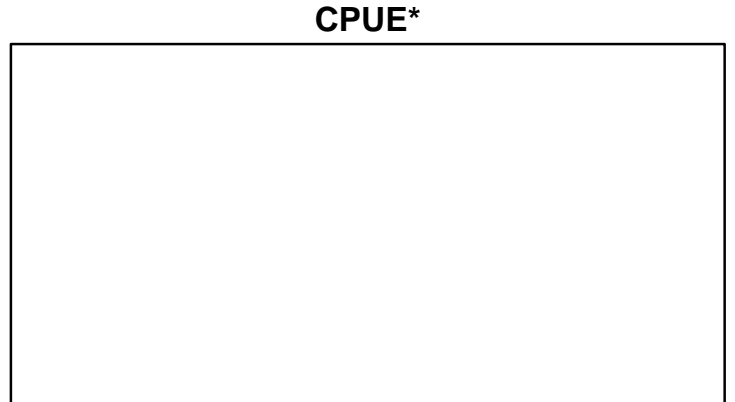
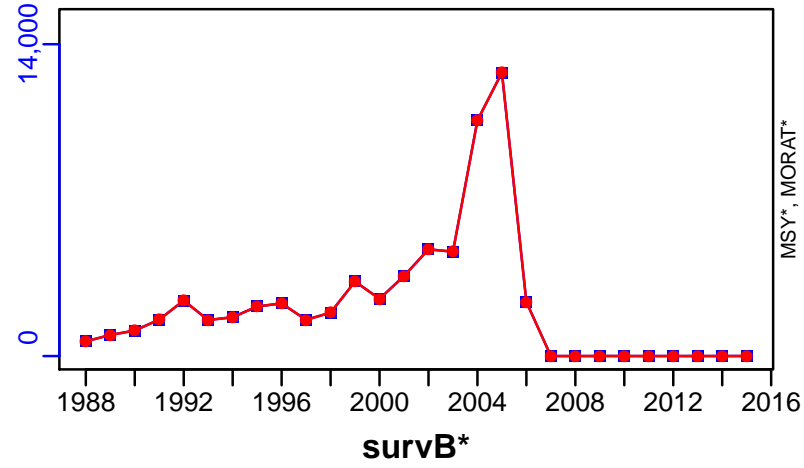
Recruits*



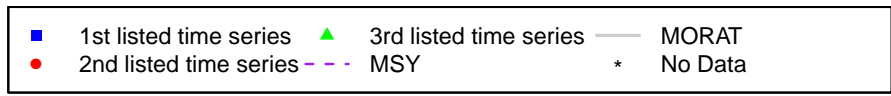
Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

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

TAC*, Cpair*, Cadv*



EFFORT*



European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

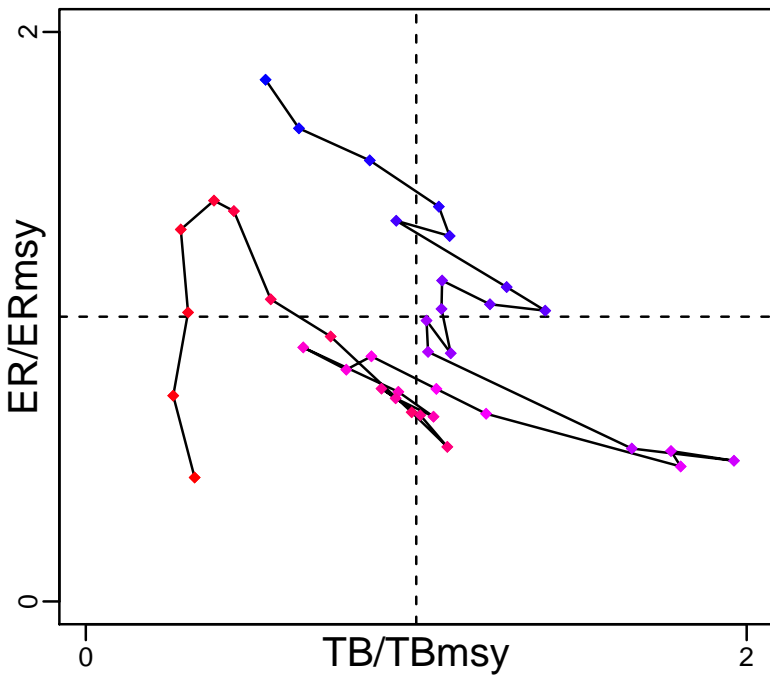
Metadata	
Scientific Name	Sardina pilchardus
Current Assess ID	WGHANSA-SARDPVIIIc-IXa-1978-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Southern Horse Mackerel, Anchovy and Sardine
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	510,760
SSBmsy	SSBmsy-est-MT	2011	599,940
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.29
TBmgt	TBmgt-MT	2016	368,400
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	146,494
M	M-1/yr	2011	0.33
TBlim	TBlim-MT	2015	135,000
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

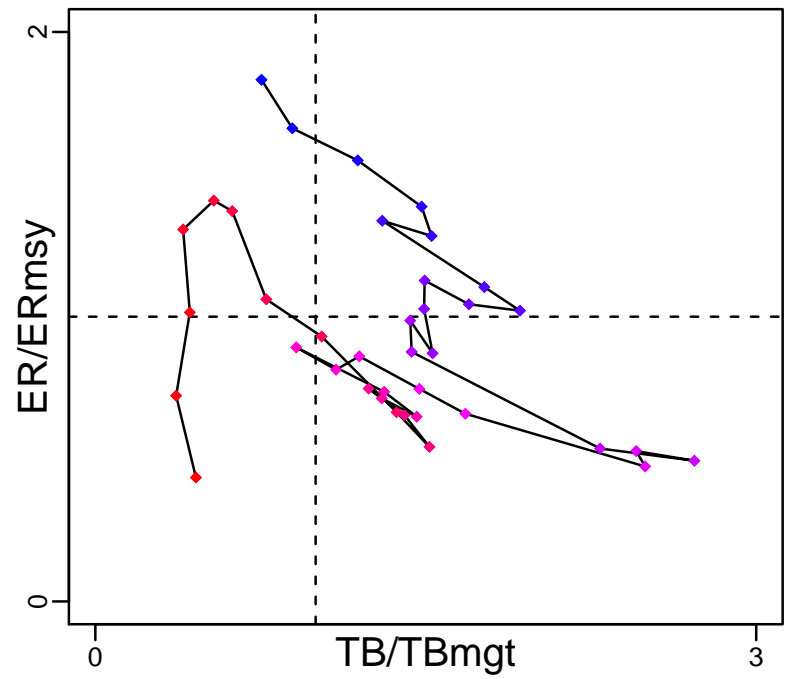
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-	-	-
TL	-	-	-	-	-
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.39	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.44	-	-
TB/TBmgt	TB-MT/TBmgt-MT	2016	0.54	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

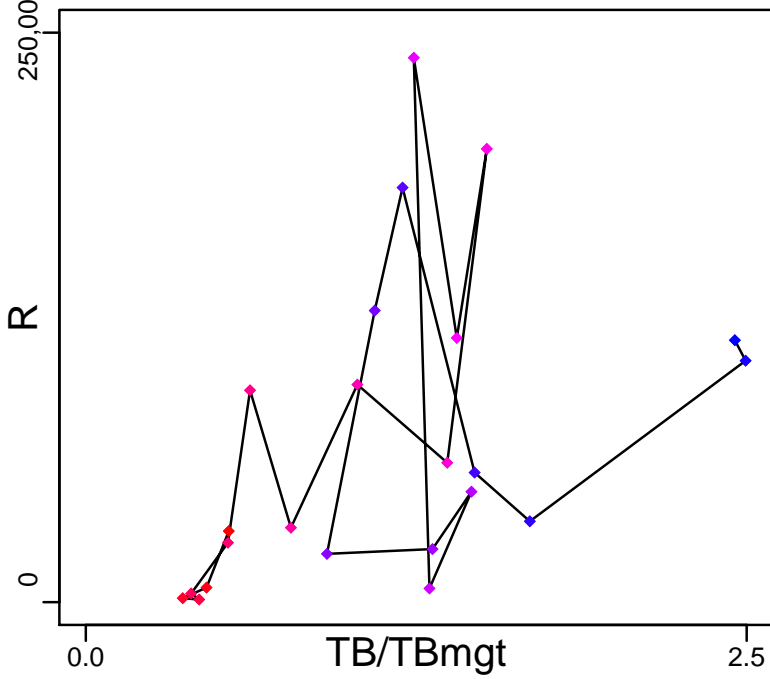
Kobe MSY_{pref} (1978–2016–ICESIMP2016)



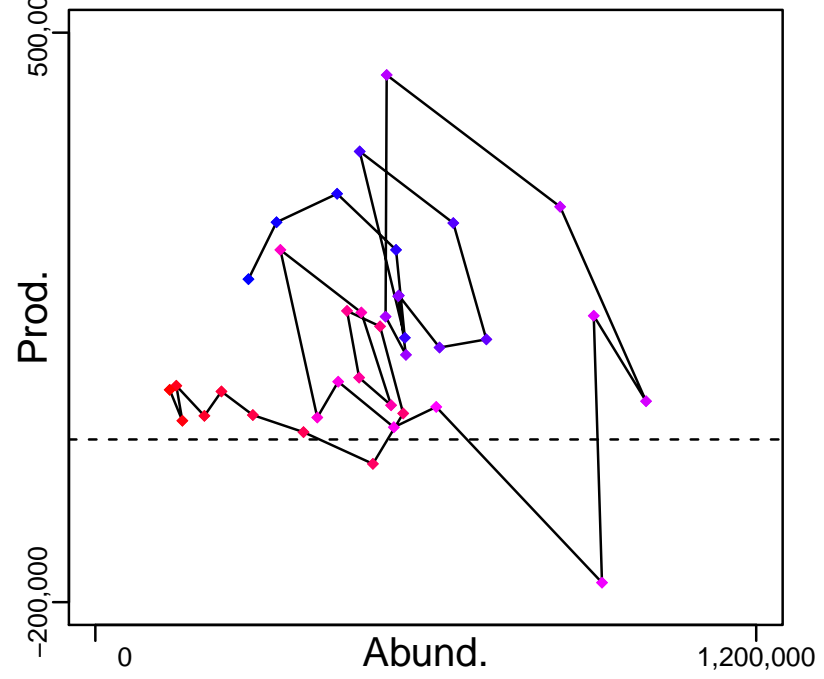
Kobe MGT_{pref} (1978–2016–ICESIMP2016)



Spawner Recruit (1978–2011–NEUBAUER)



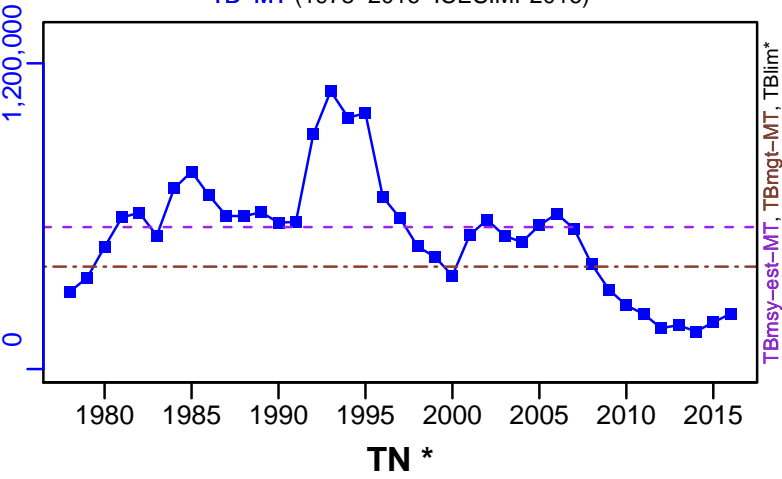
Production (1978–2016–ICESIMP2016)



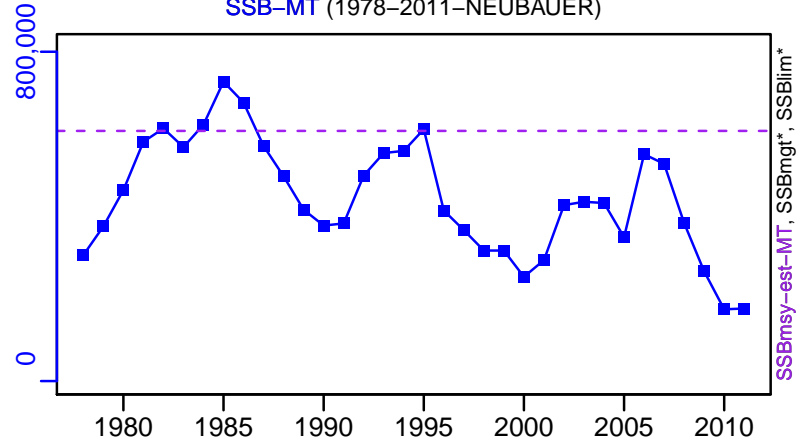
◆ Start Year ◆ End Year * No Data

European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

TB-MT (1978-2016-ICESIMP2016)

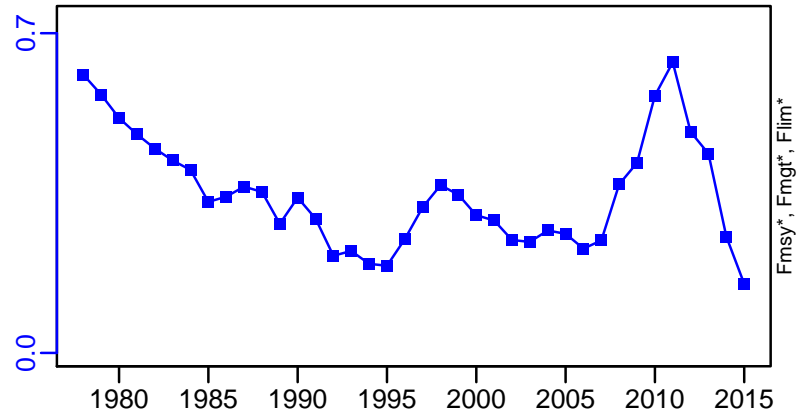


SSB-MT (1978-2011-NEUBAUER)

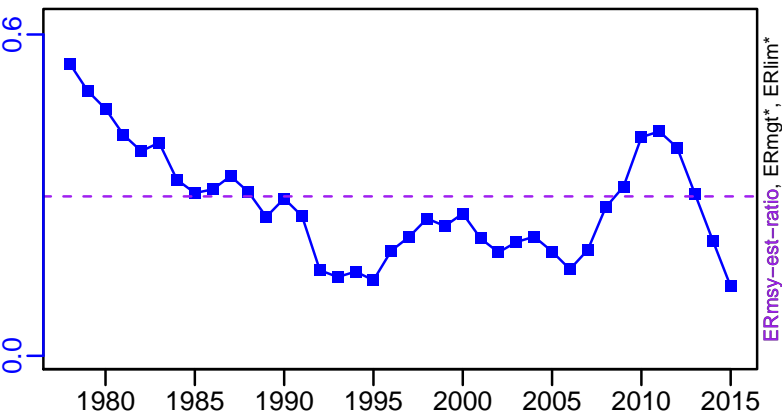


TN *

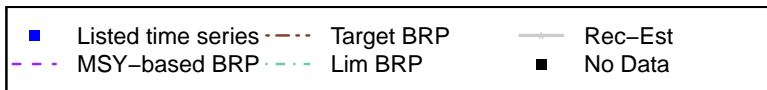
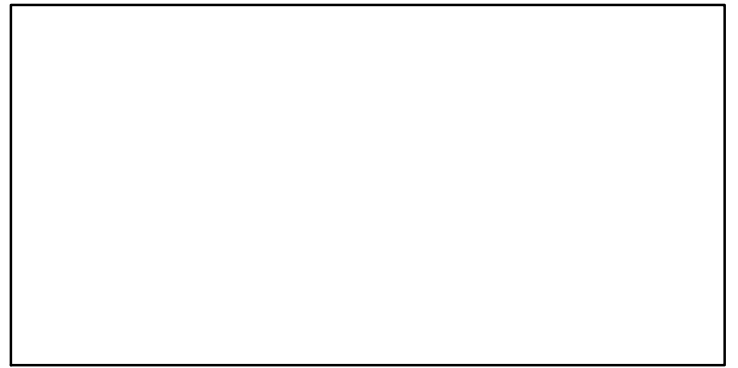
F-1/yr (1978-2016-ICESIMP2016)



ER-calc-ratio (1978-2016-ICESIMP2016)



Recruits*



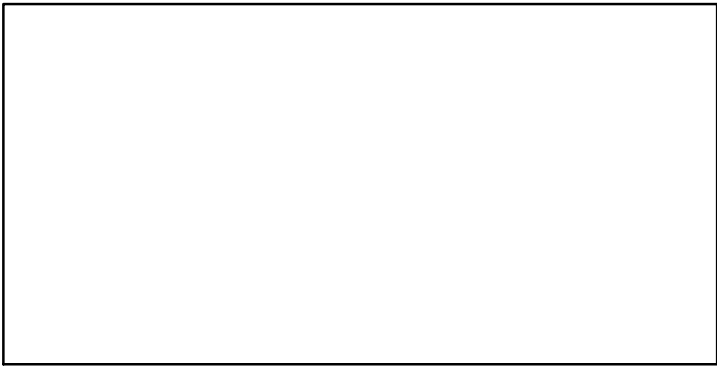
TC*, TL*, RecC*



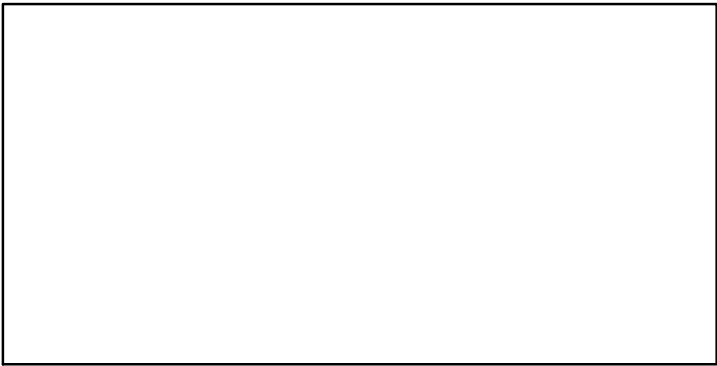
TAC*, Cpair*, Cadv*



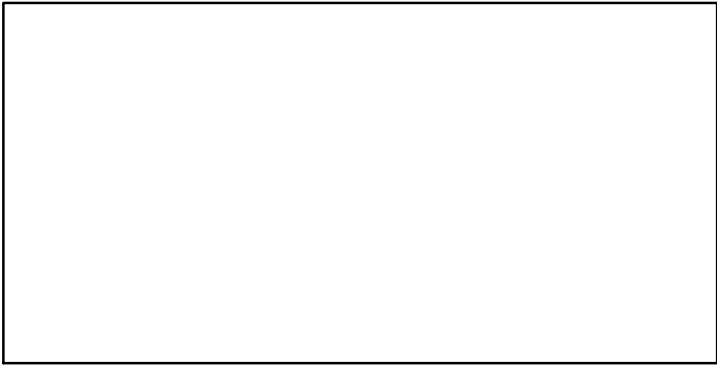
survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

—

MORAT

*

No Data

Sand eel SA 1 [SEELNSSA1]

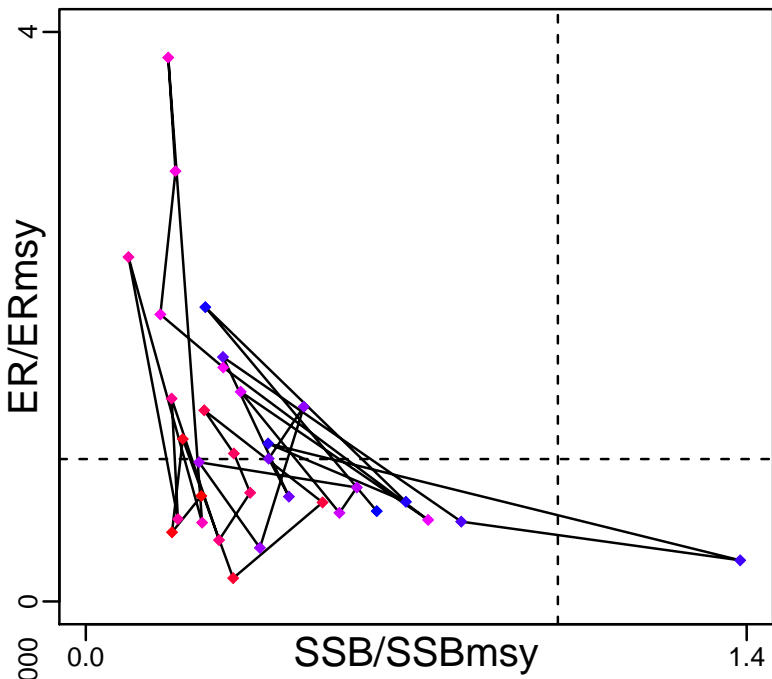
Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA1-1983-2016-ICESIMP2016
Area	Sandeel Area 1
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	750,710
SSBmsy	SSBmsy-est-MT	2016	782,459
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.44
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	215,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	893,482
M	-	-	-
TBlim	TBlim-MT	2011	160,000
SSBlim	SSBlim-MT	2016	160,000
Flim	-	-	-
ERlim	-	-	-

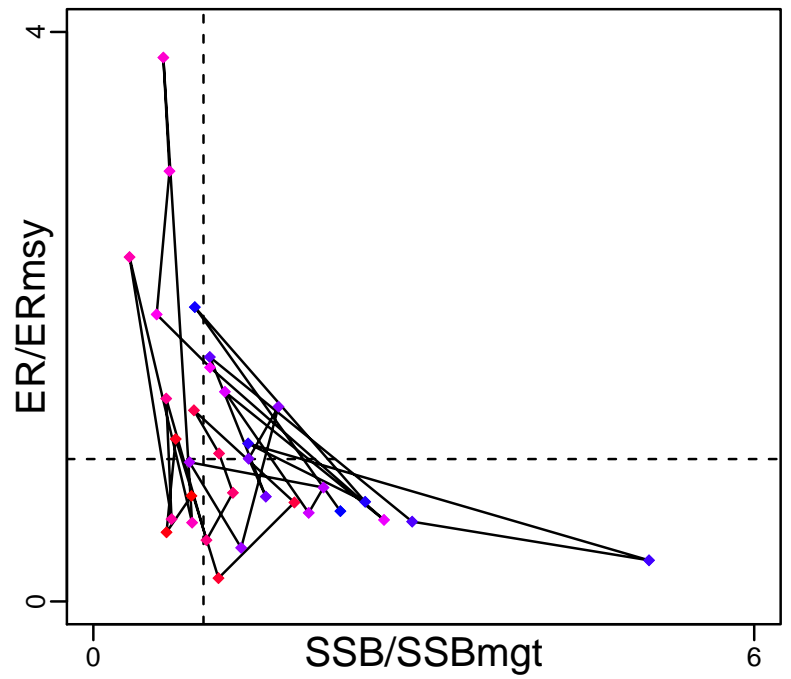
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	351,000	-	-
SSB	SSB-MT	2016	238,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	1.95×10^{11}	-	0
F	F-1/yr	2016	0	-	1 to 2
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	162,000		
TL	TL-MT	2016	162,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.47		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.3		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.74		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.11		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel SA 1 [SEELNSSA1]

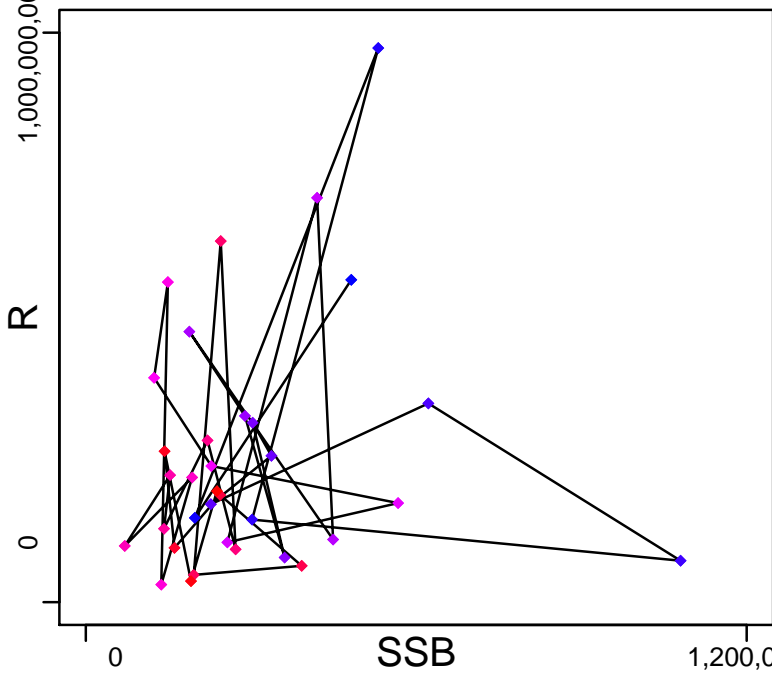
Kobe MSYpref (1983–2016–ICESIMP2016)



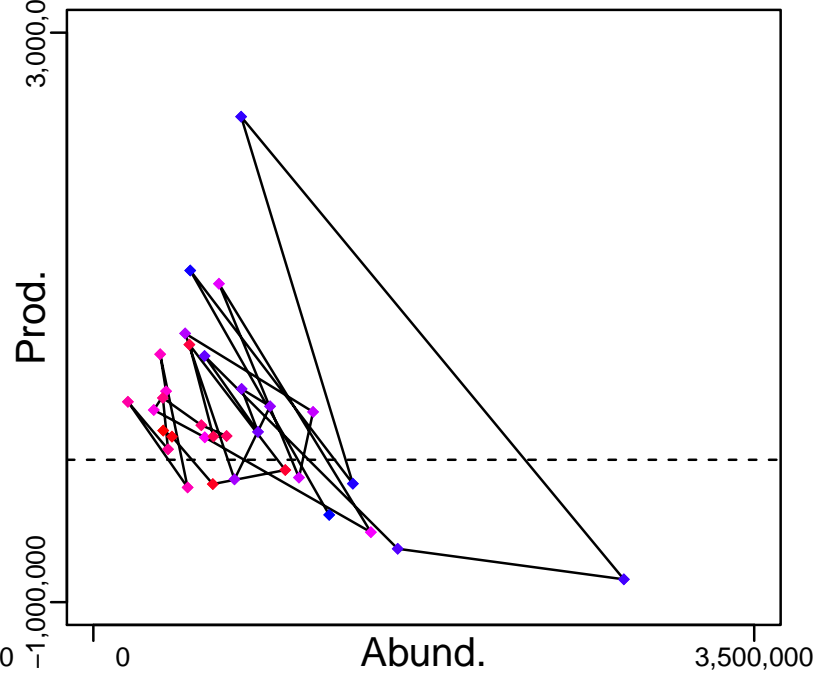
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)

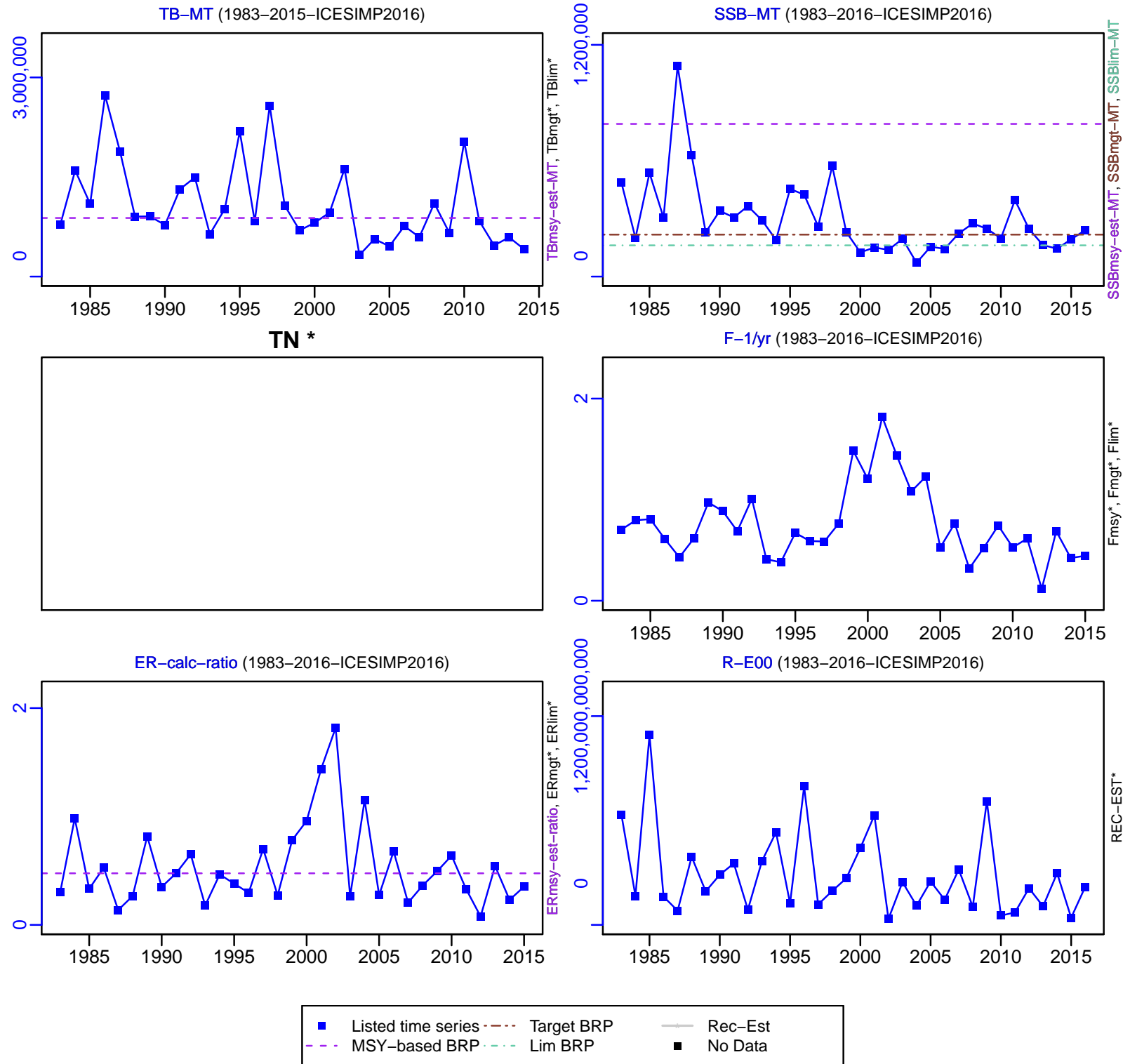


Production (1983–2016–ICESIMP2016)



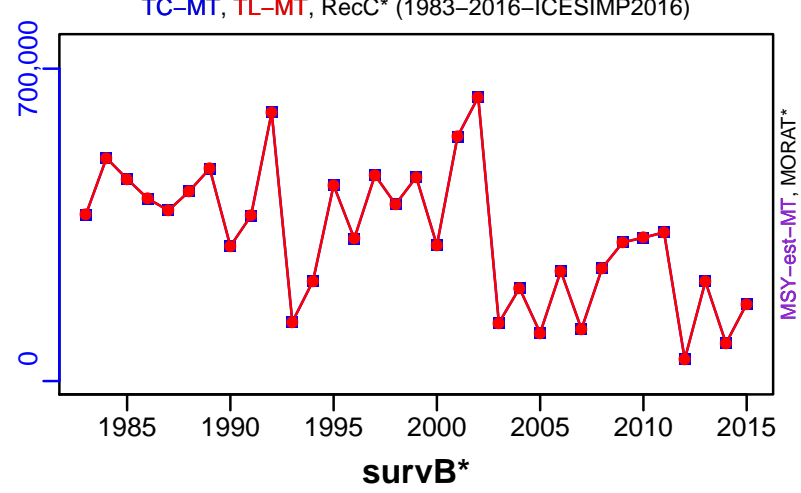
◆ Start Year ◆ End Year * No Data

Sand eel SA 1 [SEELNSSA1]



Sand eel SA 1 [SEELNSSA1]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Sand eel SA 2 [SEELNSSA2]

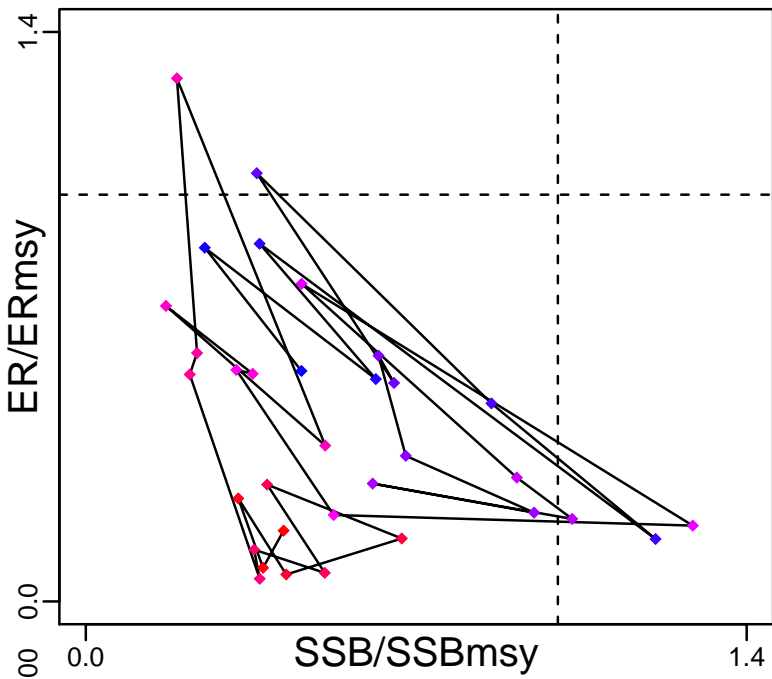
Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA2-1983-2016-ICESIMP2016
Area	Sandeel Area 2
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	213,824
SSBmsy	SSBmsy-est-MT	2016	222,224
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.5
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	1×10^5
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	287,740
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2016	70,000
Flim	-	-	-
ERlim	-	-	-

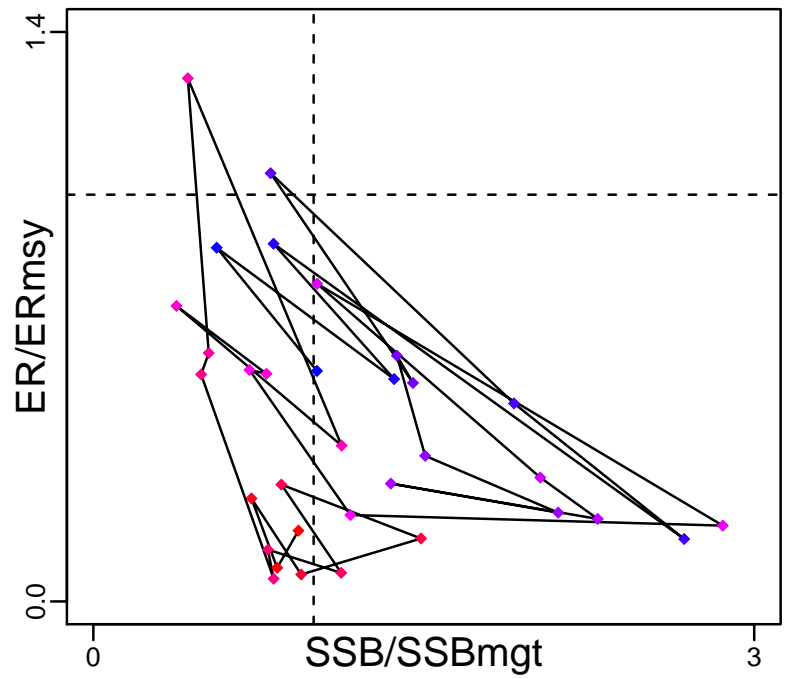
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	174,000	-	-
SSB	SSB-MT	2016	76,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	3.92×10^{10}	-	0
F	F-1/yr	2016	0	-	1 to 2
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	21,000		
TL	TL-MT	2016	21,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.82		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.34		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.17		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.76		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel SA 2 [SEELNSSA2]

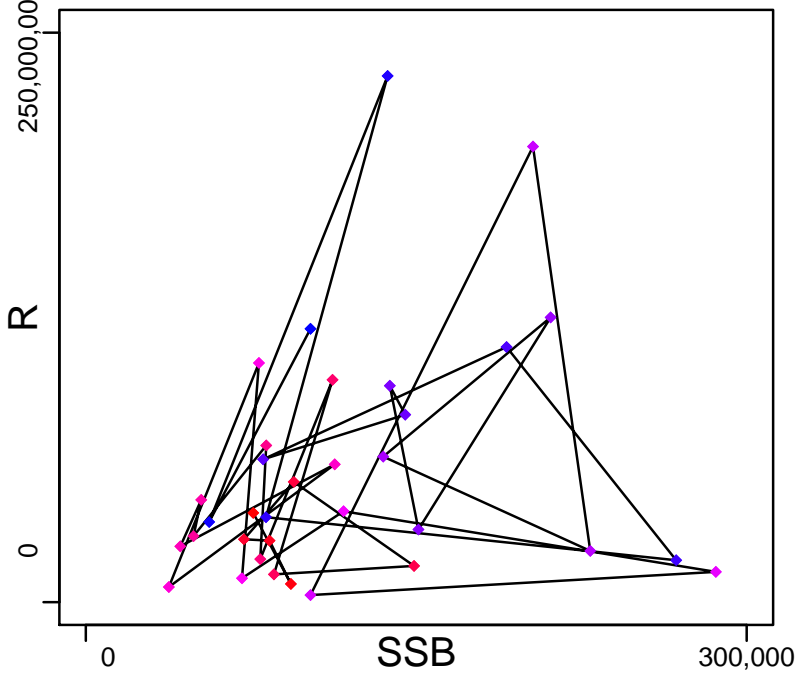
Kobe MSYpref (1983–2016–ICESIMP2016)



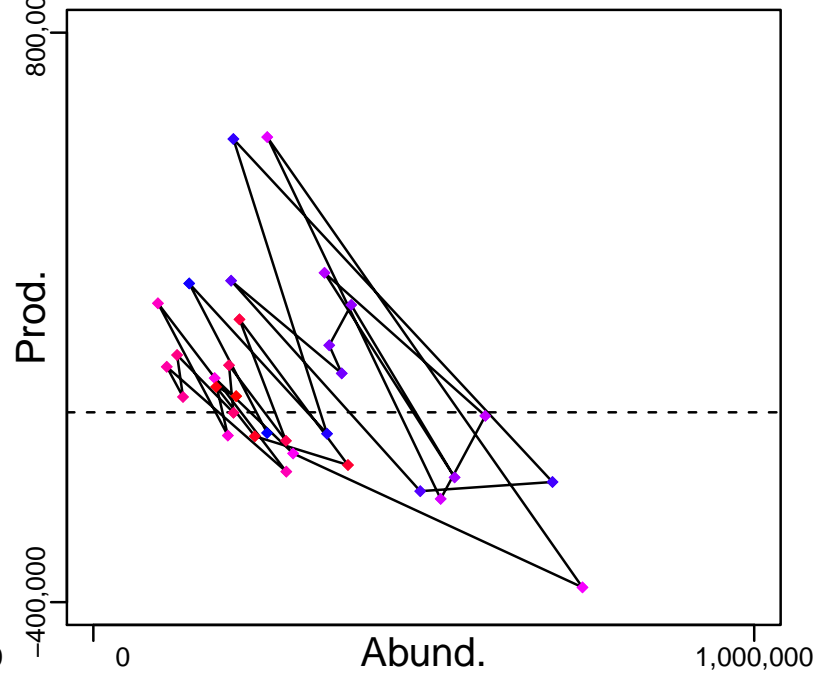
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)



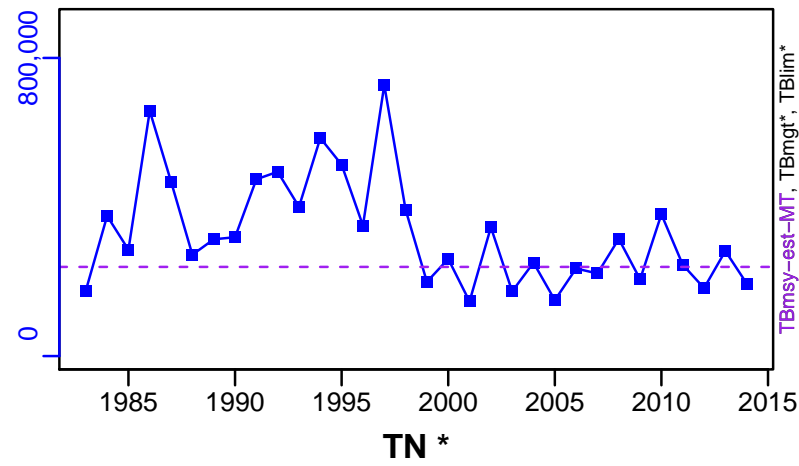
Production (1983–2016–ICESIMP2016)



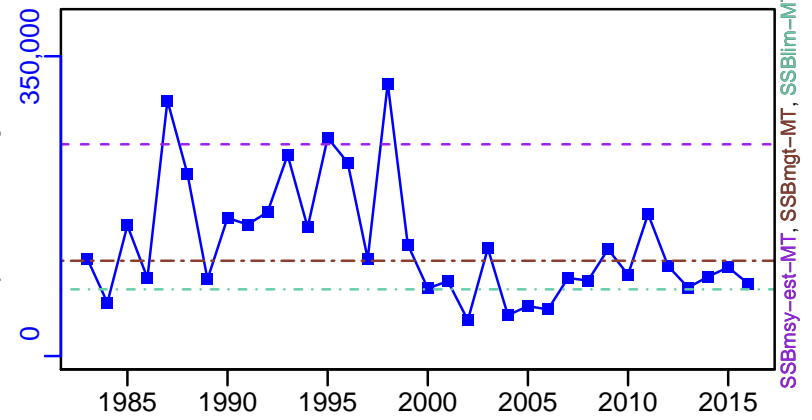
◆ Start Year ◆ End Year * No Data

Sand eel SA 2 [SEELNSSA2]

TB-MT (1983–2015–ICESIMP2016)



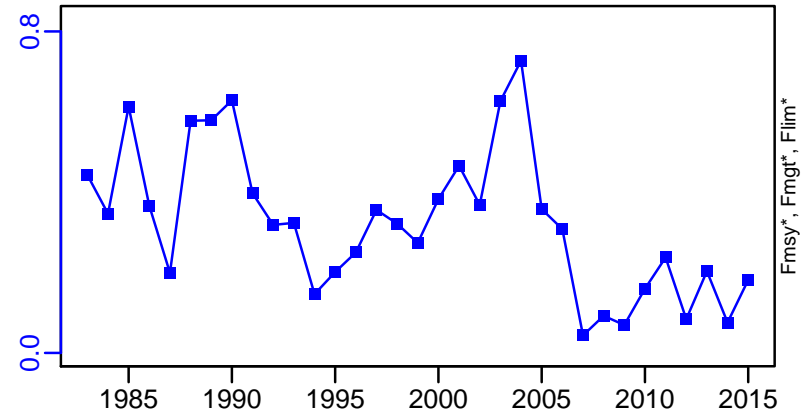
SSB-MT (1983–2016–ICESIMP2016)



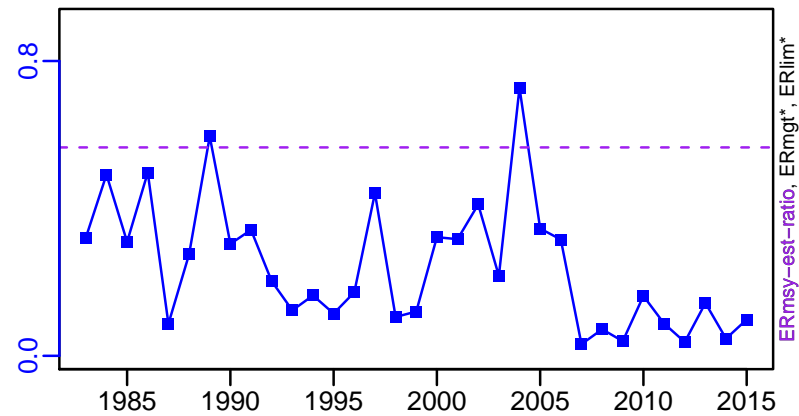
TN *



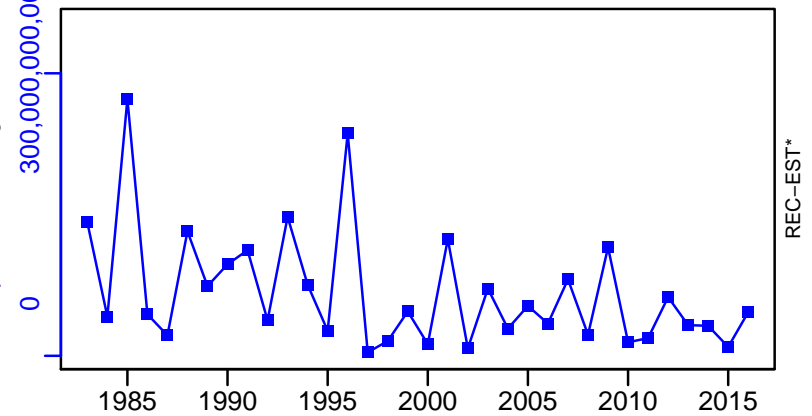
F-1/yr (1983–2016–ICESIMP2016)



ER-calc-ratio (1983–2016–ICESIMP2016)

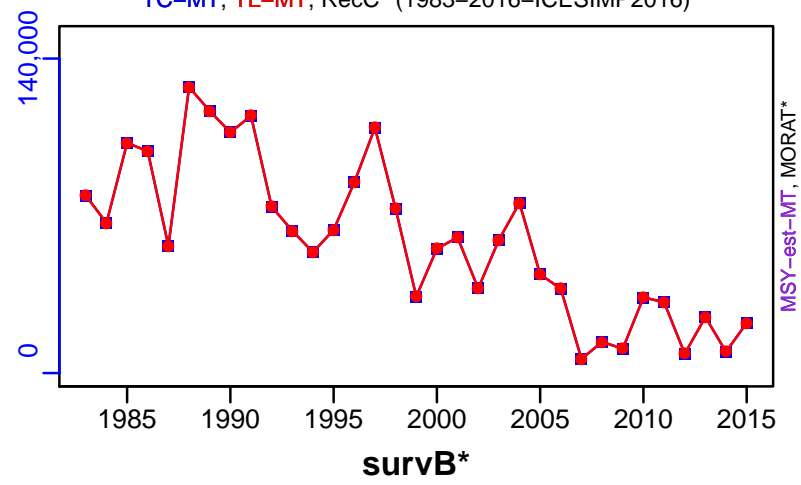


R-E00 (1983–2016–ICESIMP2016)



Sand eel SA 2 [SEELNSSA2]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

Sand eel SA 3 [SEELNSSA3]

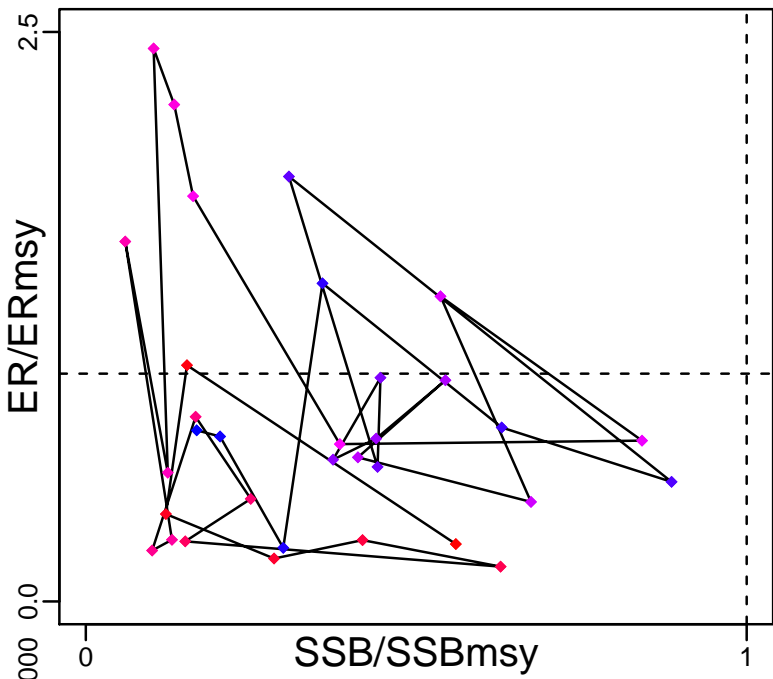
Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA3-1983-2016-ICESIMP2016
Area	Sandeel Area 3
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	612,352
SSBmsy	SSBmsy-est-MT	2016	440,236
Fmsy	-	-	-
ERmsy	ERmsy-est-ratio	2016	0.74
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	195,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	840,511
M	-	-	-
TBlim	TBlim-MT	2011	1×10^5
SSBlim	SSBlim-MT	2016	1×10^5
Flim	-	-	-
ERlim	-	-	-

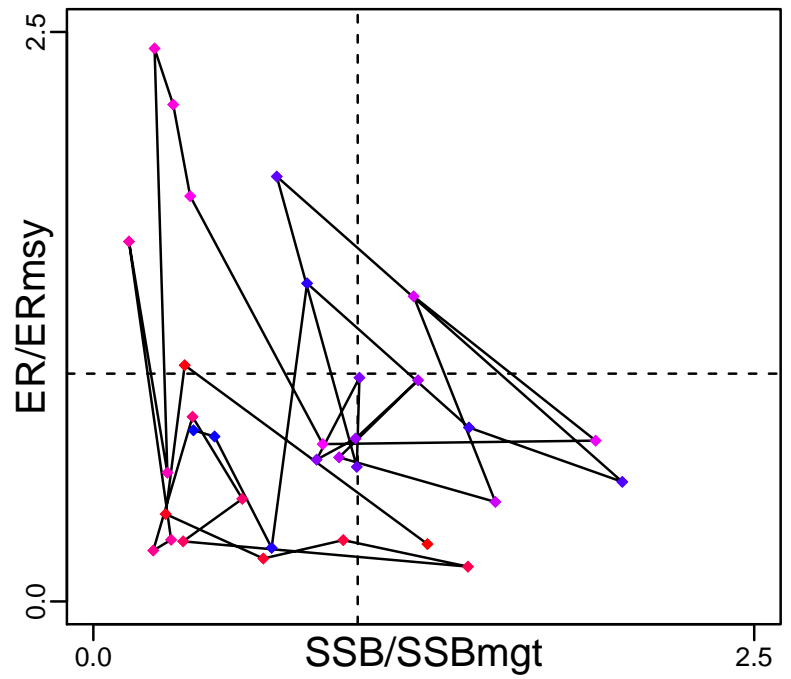
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	535,000	-	-
SSB	SSB-MT	2016	379,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	9.25×10^{10}	-	0
F	F-1/yr	2016	0	-	1 to 2
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	119,000		
TL	TL-MT	2016	119,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.87		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.86		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.25		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.94		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sand eel SA 3 [SEELNSSA3]

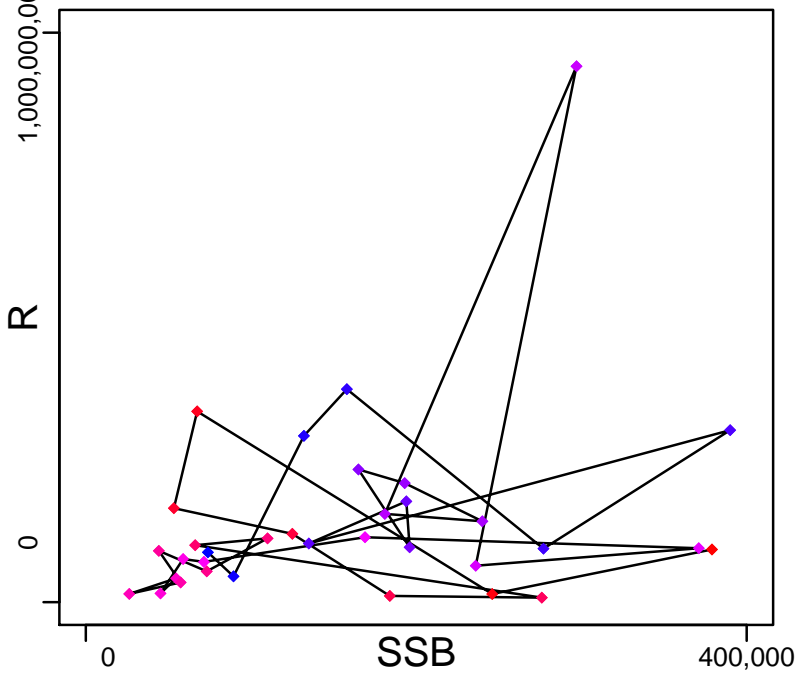
Kobe MSYpref (1983–2016–ICESIMP2016)



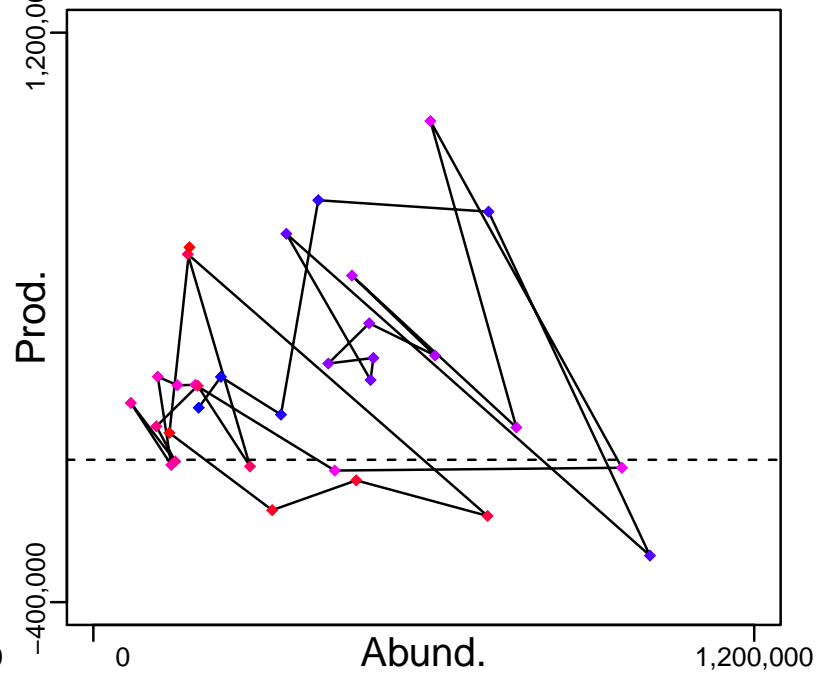
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)

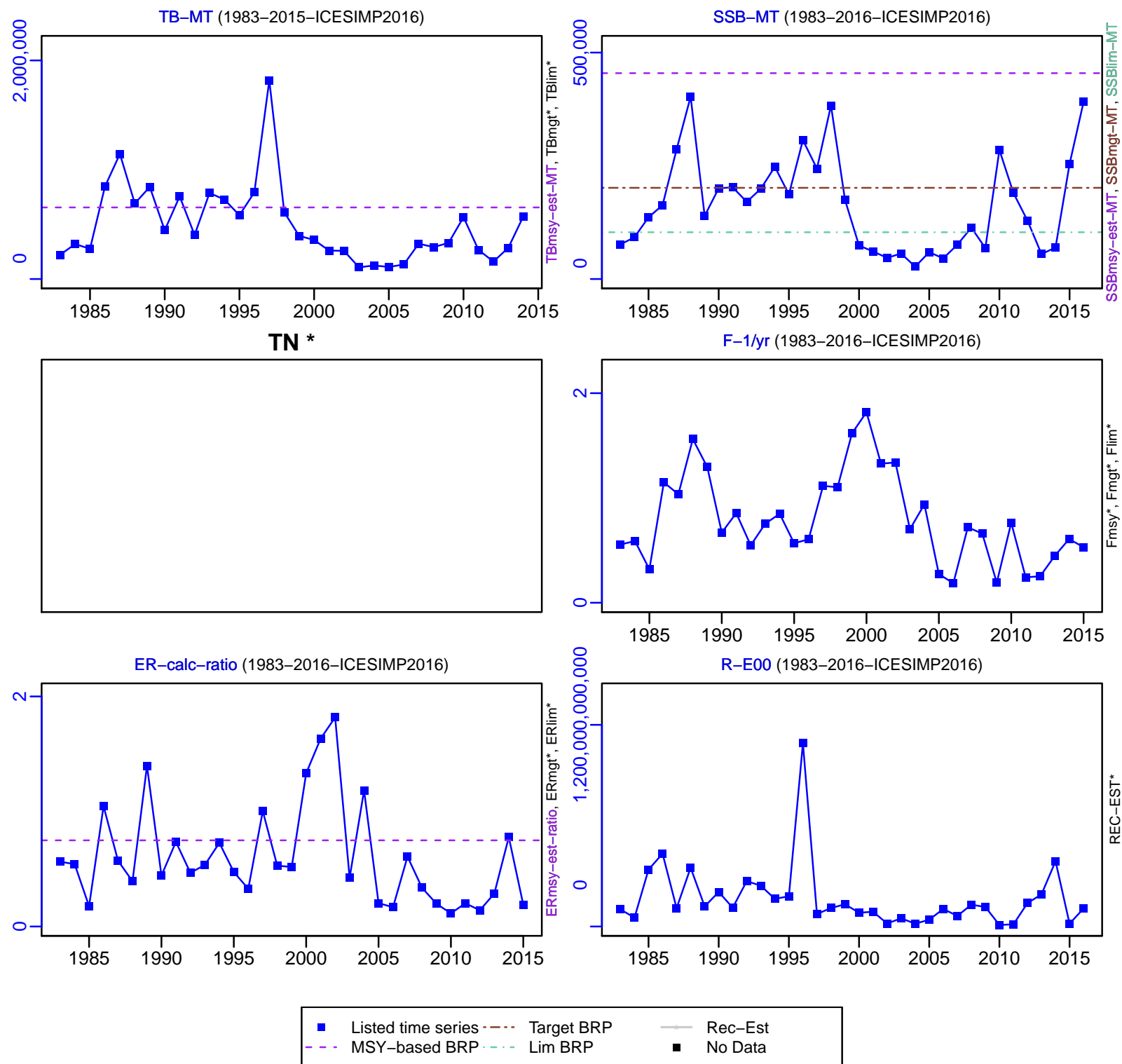


Production (1983–2016–ICESIMP2016)



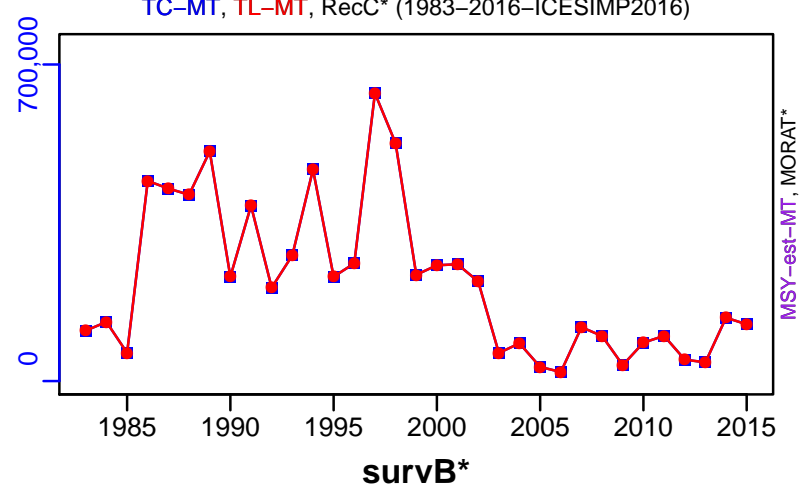
◆ Start Year ◆ End Year * No Data

Sand eel SA 3 [SEELNSSA3]



Sand eel SA 3 [SEELNSSA3]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



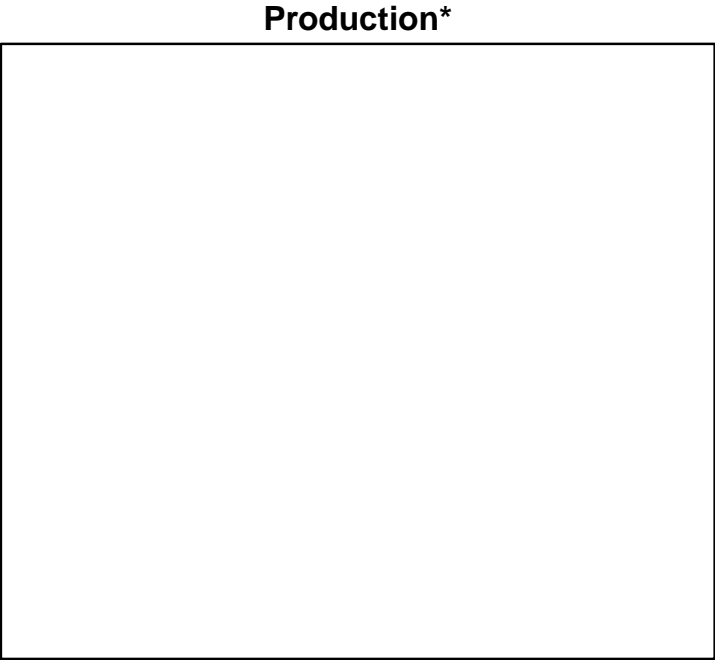
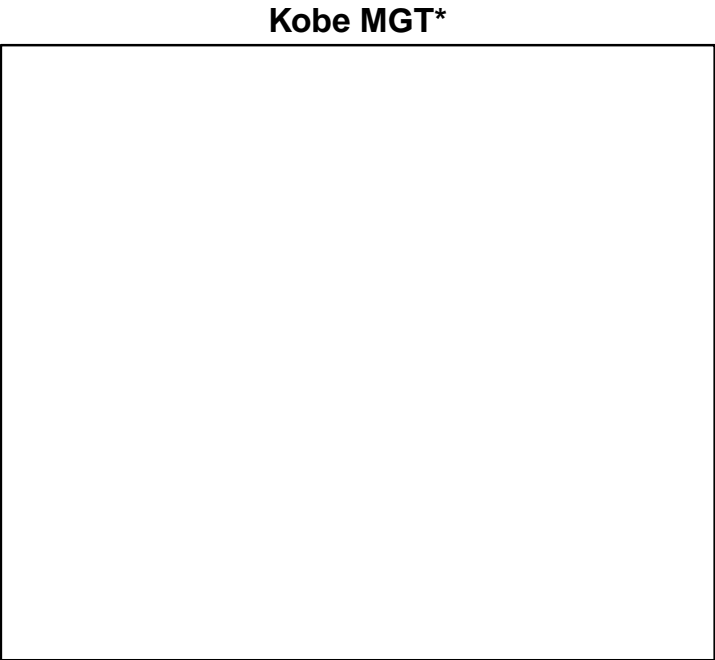
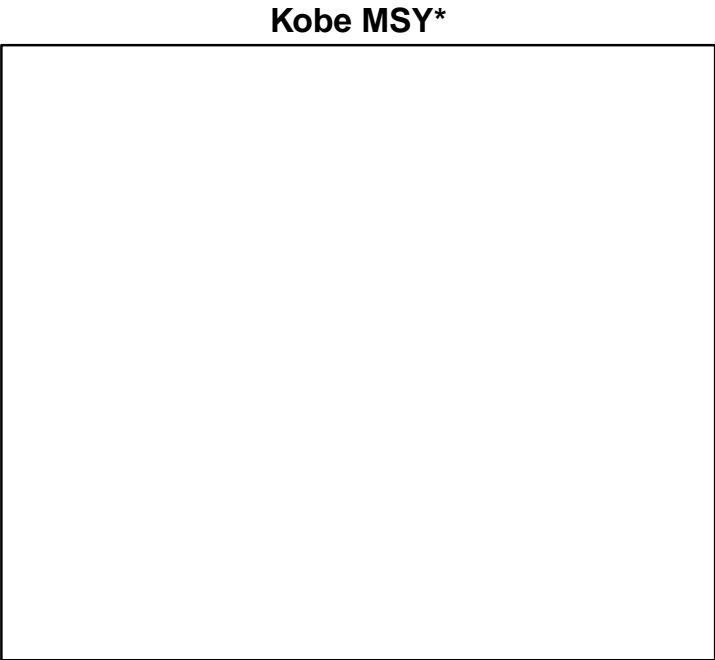
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Sand eel SA 5 [SEELNSSA5]

Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA5-1983-2015-ICESIMP2016
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	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	2015	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

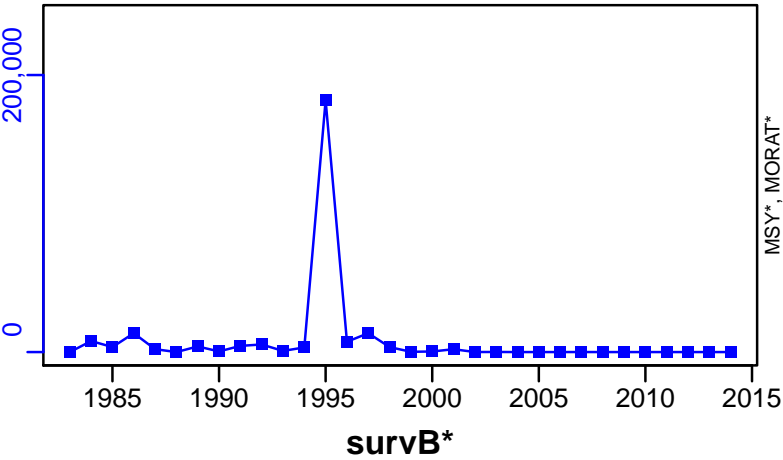


Recruits*



Sand eel SA 5 [SEELNSSA5]

TC-MT, TL*, RecC* (1983-2015-ICESIMP2016)



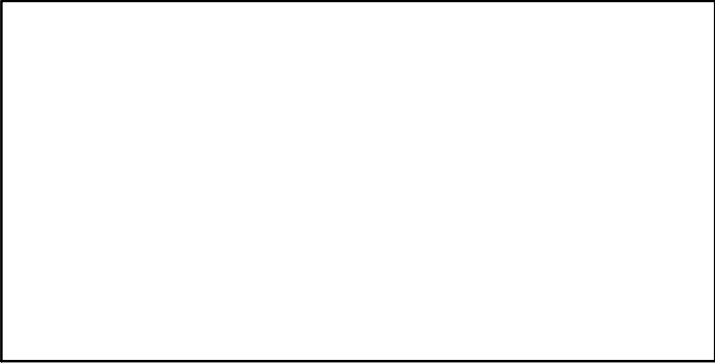
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*

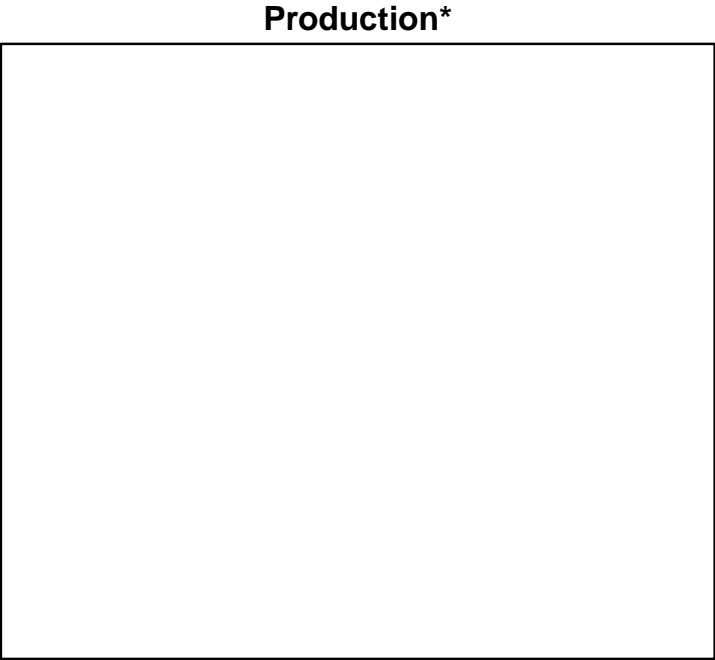
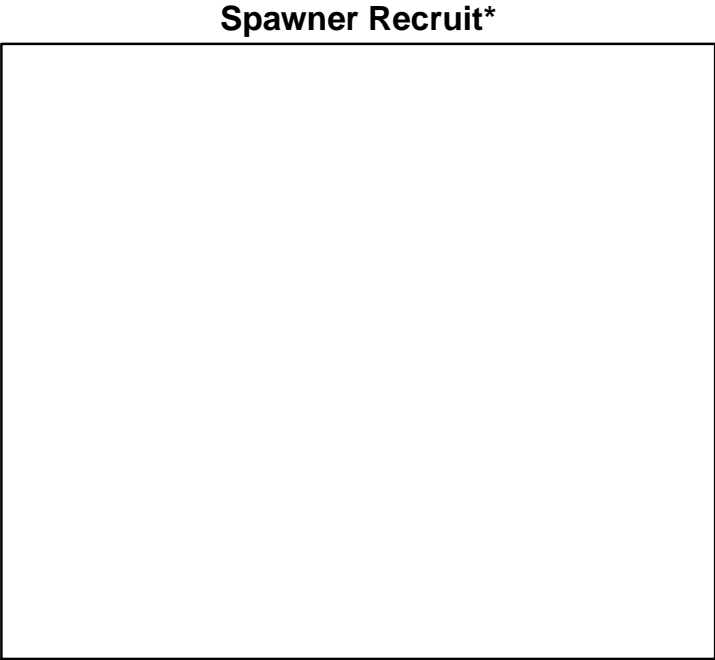
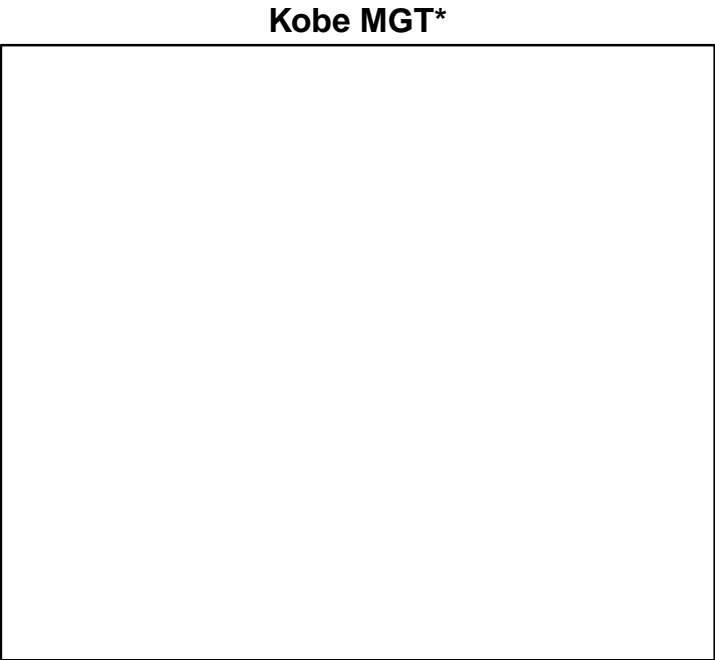
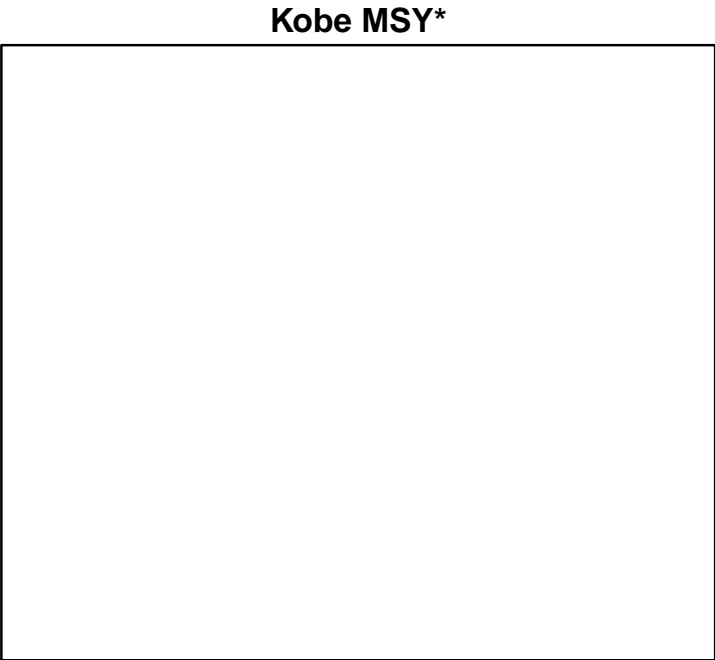


Sand eel SA 6 [SEELNSSA6]

Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA6-1983-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	79		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

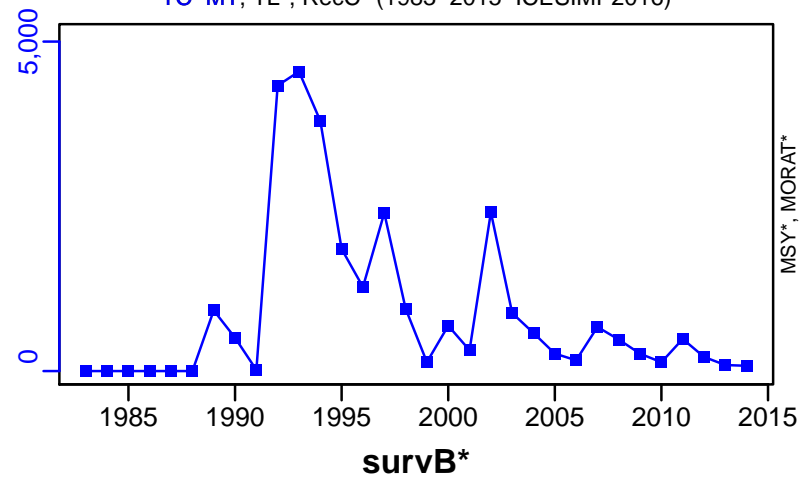


Recruits*



Sand eel SA 6 [SEELNSSA6]

TC-MT, TL*, RecC* (1983–2015–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



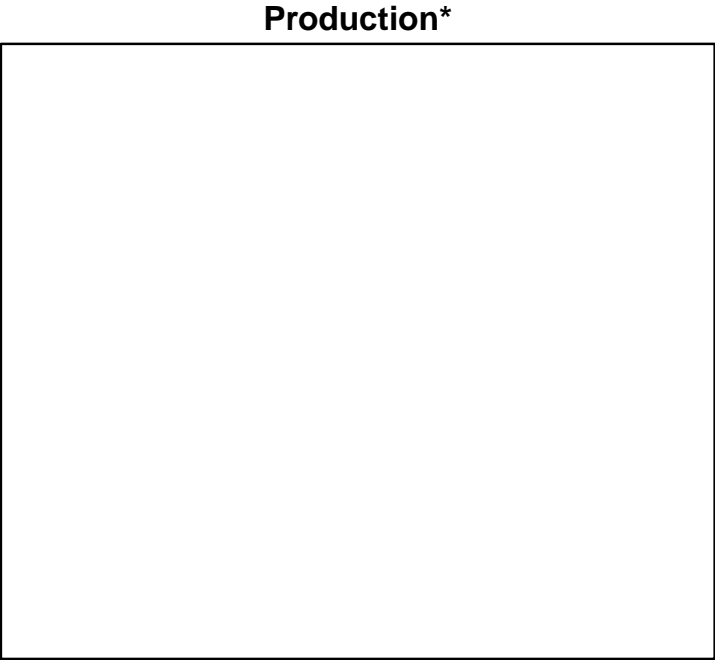
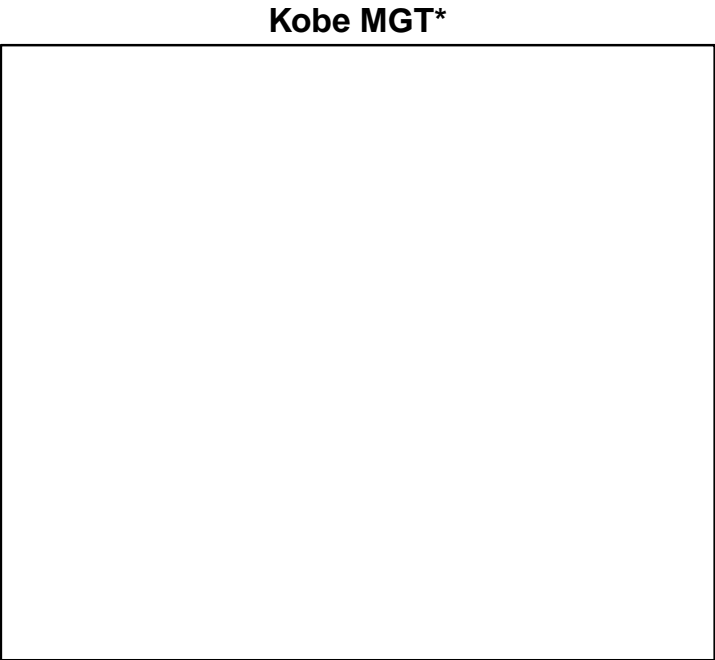
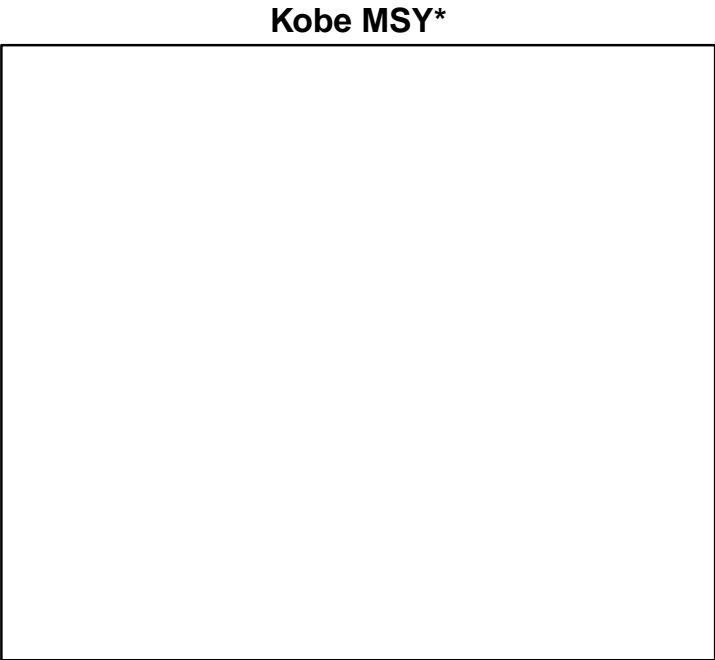
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Sand eel SA 7 [SEELNSSA7]

Metadata	
Scientific Name	Ammodytes marinus
Current Assess ID	HAWG-SEELNSSA7-1983-2015-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



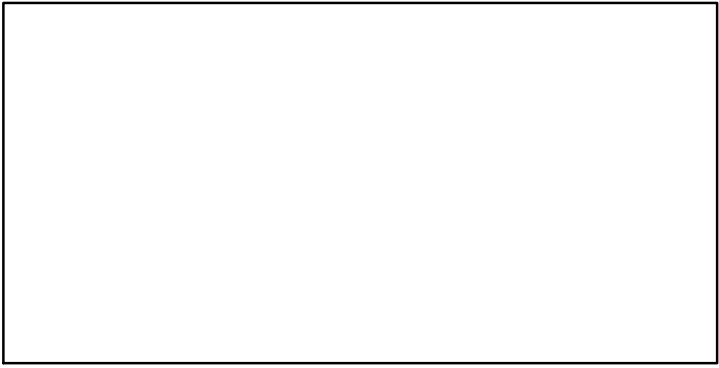
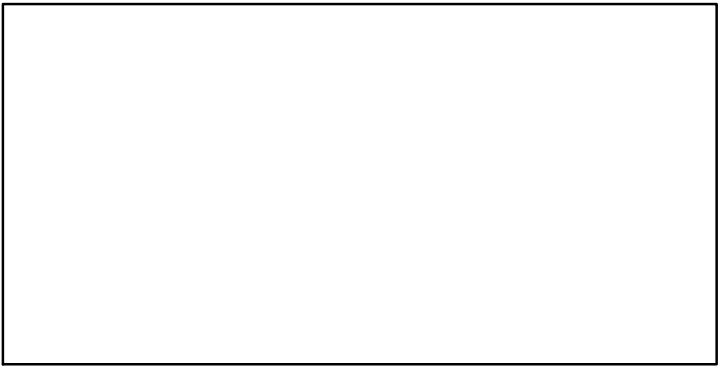
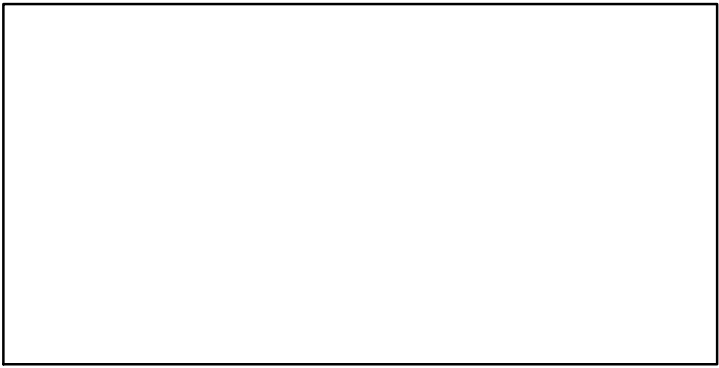
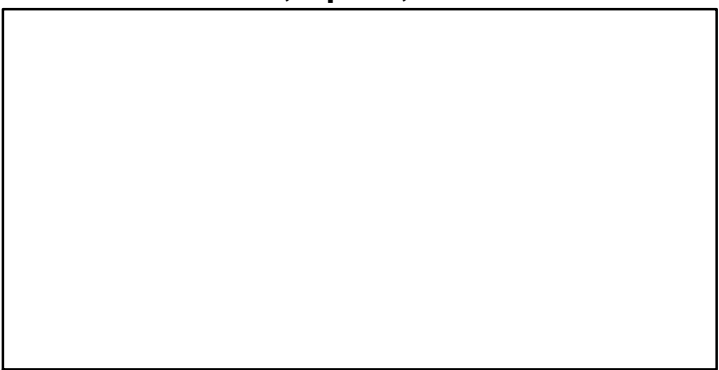
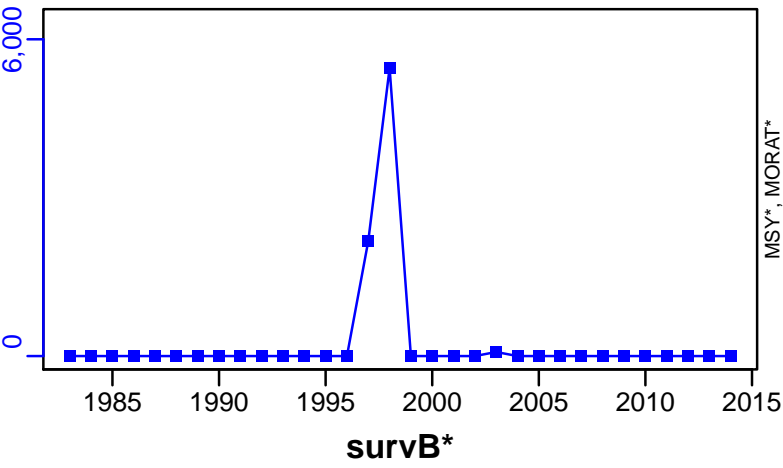
Recruits*



Sand eel SA 7 [SEELNSSA7]

TC-MT, TL*, RecC* (1983–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



Common sole Celtic Sea [SOLECS]

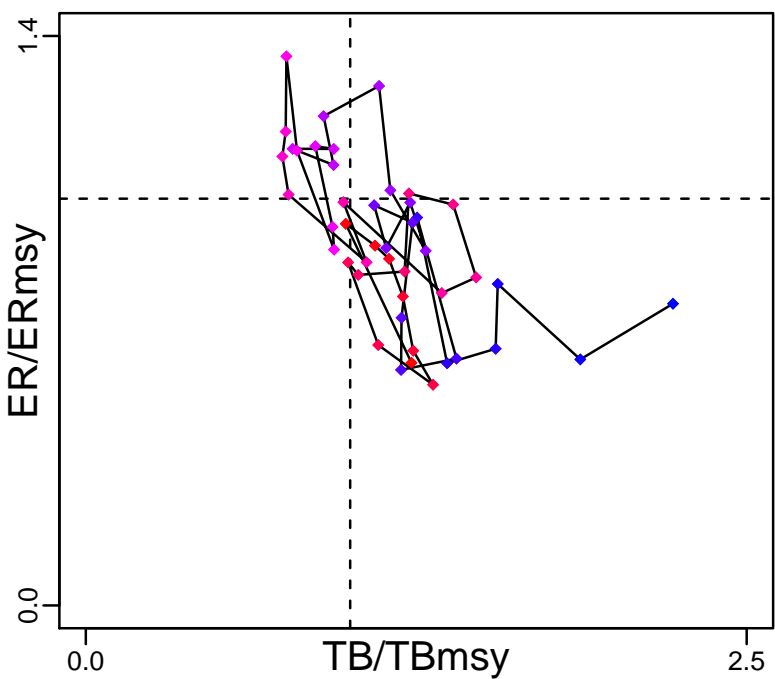
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLECS-1970-2016-ICESIMP2016
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	4047
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.27
ERmsy	ERmsy-est-ratio	2016	0.28
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	2400
Fmgt	Fmgt-1/yr	2016	0.27
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1129
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	1700
Flim	Flim-1/yr	2016	0.48
ERlim	-	-	-

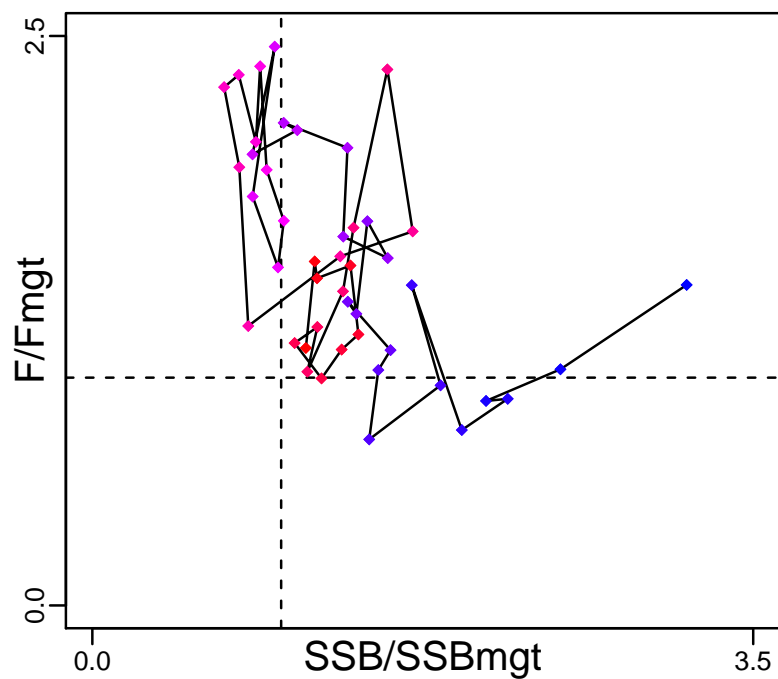
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	4130	-	-
SSB	SSB-MT	2016	2600	-	-
TN	-	-	-	-	-
R	R-E00	2016	4,930,000	-	1
F	F-1/yr	2016	0	-	4 to 8
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	830		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.02		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.13		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.6		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.08		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.13		
ER/ERmgt	-	-	-		

Common sole Celtic Sea [SOLECS]

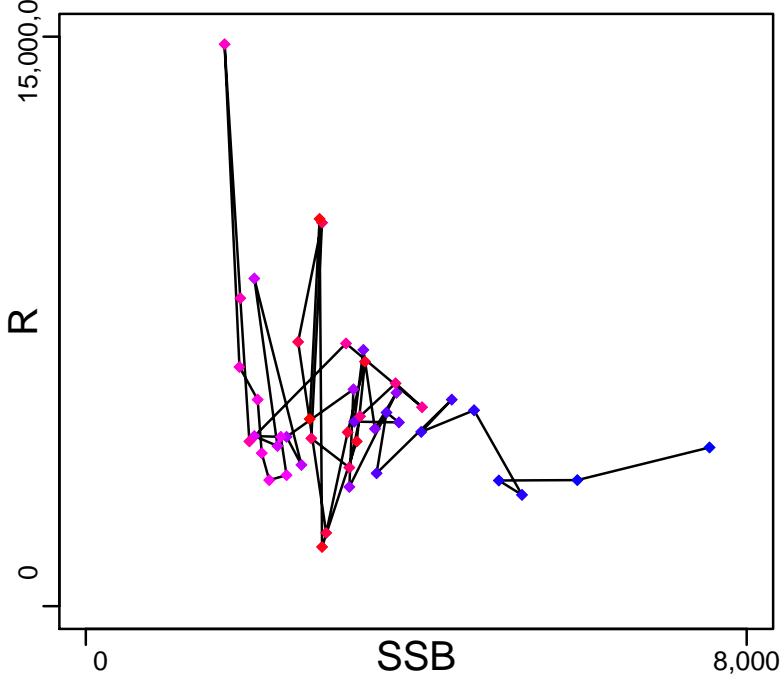
Kobe MSYpref (1970–2016–ICESIMP2016)



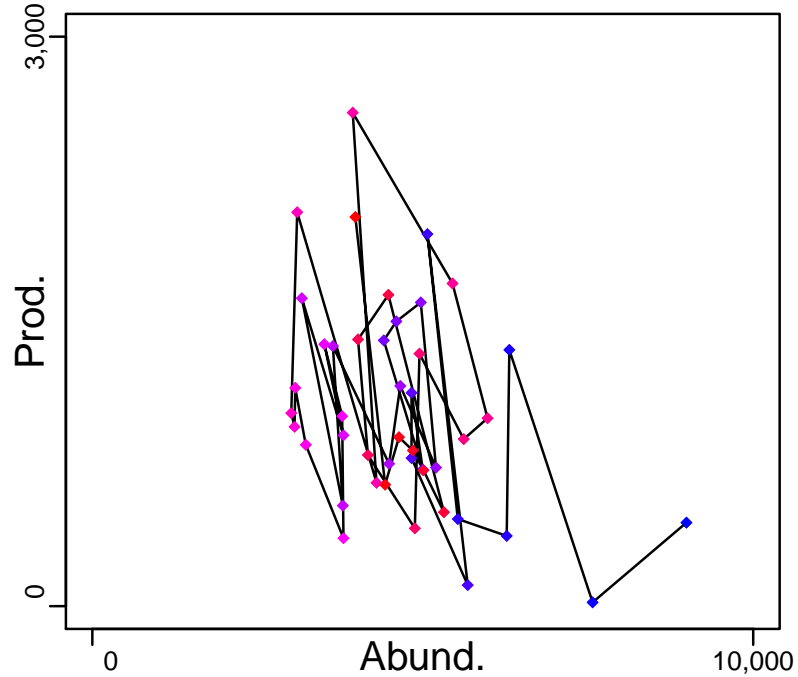
Kobe MGTpref (1970–2016–ICESIMP2016)



Spawner Recruit (1970–2016–ICESIMP2016)



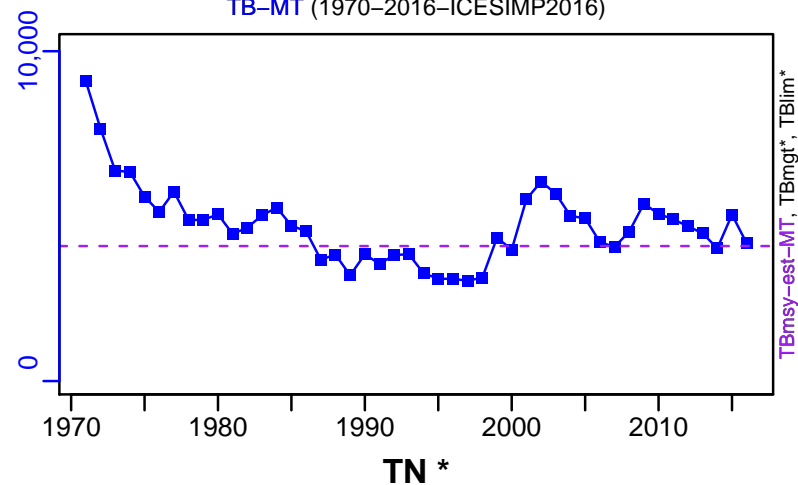
Production (1970–2016–ICESIMP2016)



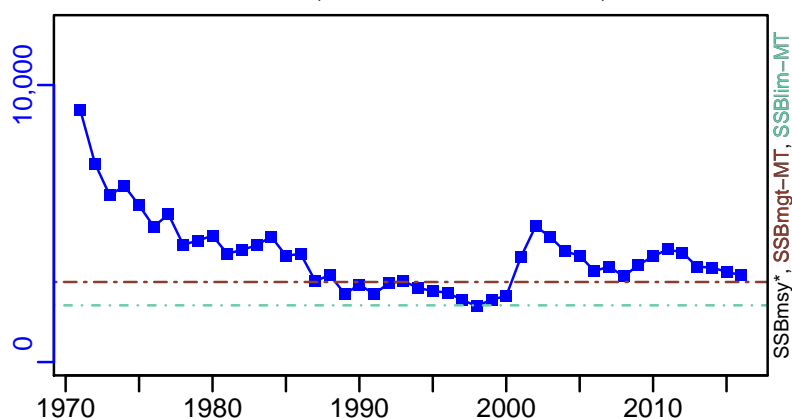
◆ Start Year ◆ End Year * No Data

Common sole Celtic Sea [SOLECS]

TB-MT (1970–2016–ICESIMP2016)



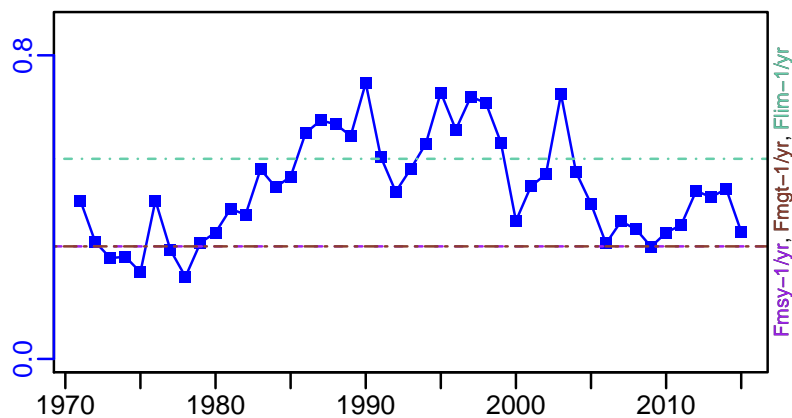
SSB-MT (1970–2016–ICESIMP2016)



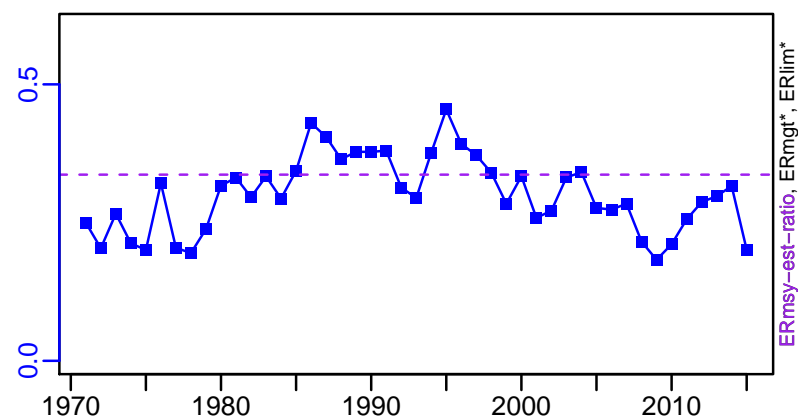
TN *



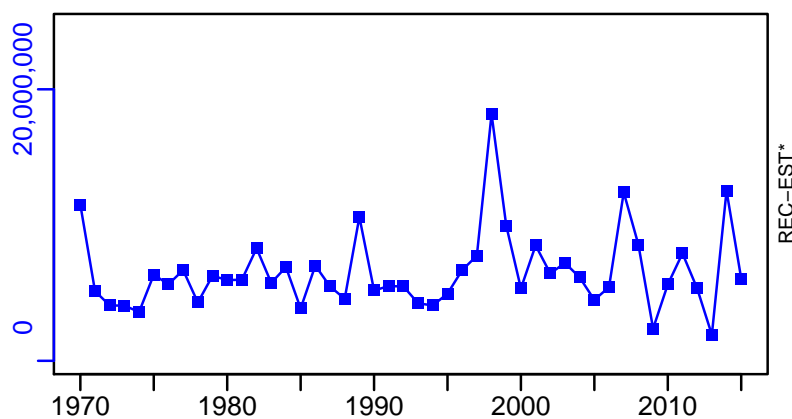
F-1/yr (1970–2016–ICESIMP2016)



ER-calc-ratio (1970–2016–ICESIMP2016)

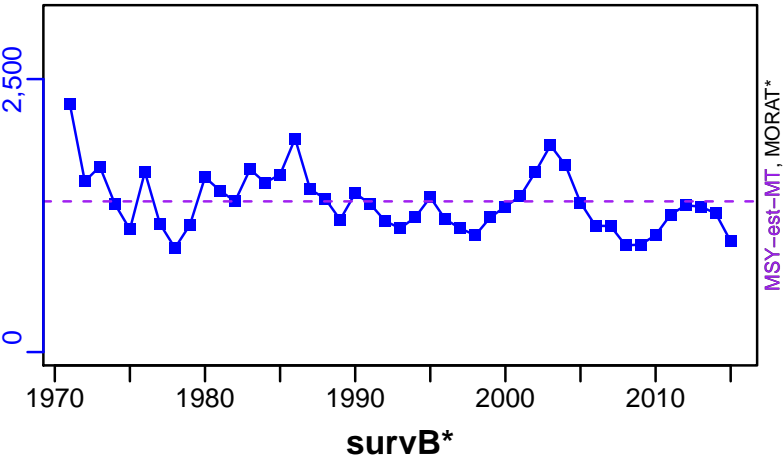


R-E00 (1970–2016–ICESIMP2016)



Common sole Celtic Sea [SOLECS]

TL-MT, TC*, RecC* (1970-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



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

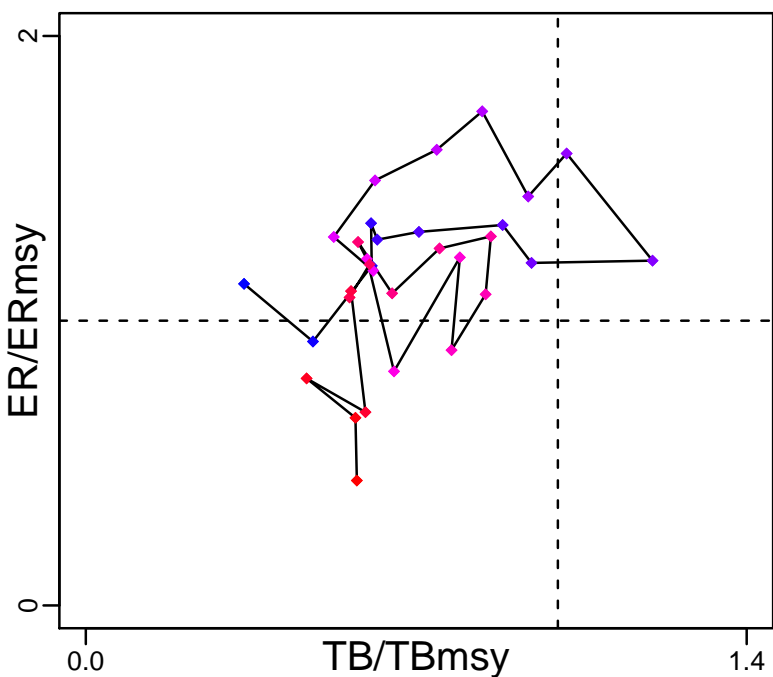
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBFAS-SOLEIIIa-2224-1983-2016-ICESIMP2016
Area	22-24-IIIa
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	5110
SSBmsy	SSBmsy-est-MT	2014	4813
Fmsy	Fmsy-1/yr	2016	0.23
ERmsy	ERmsy-est-ratio	2016	0.17
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	2600
Fmgt	Fmgt-1/yr	2016	0.23
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	890
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	1850
Flim	Flim-1/yr	2016	0.32
ERlim	-	-	-

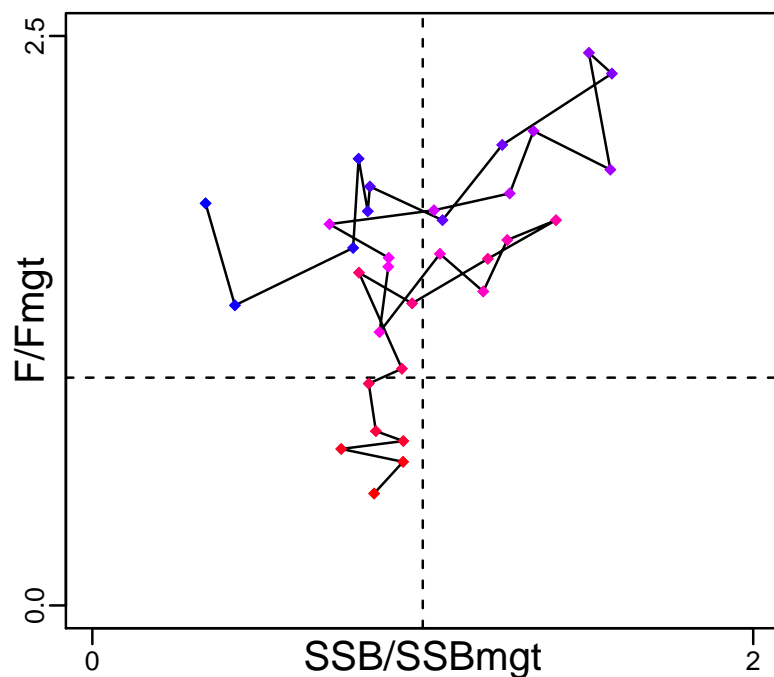
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.57		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.44		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

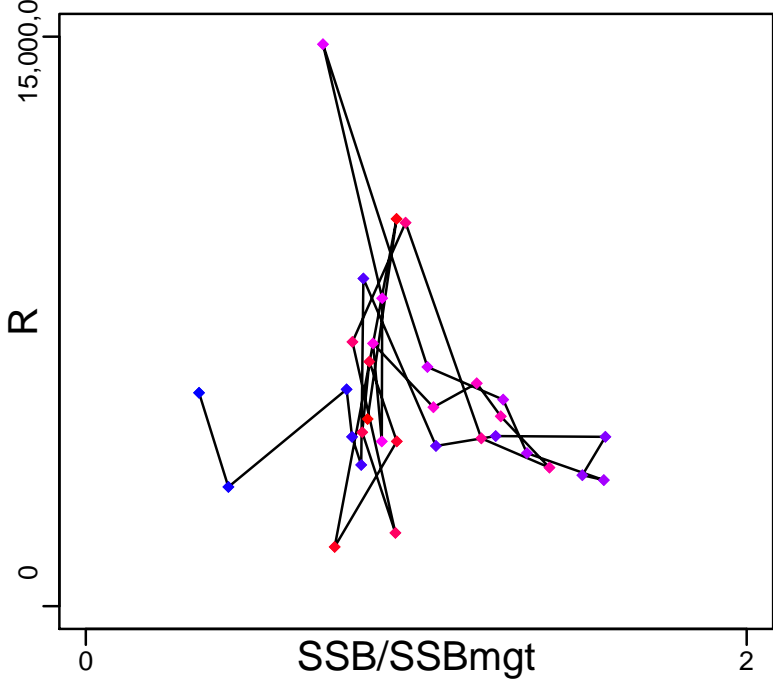
Kobe MSYpref (1983–2016–ICESIMP2016)



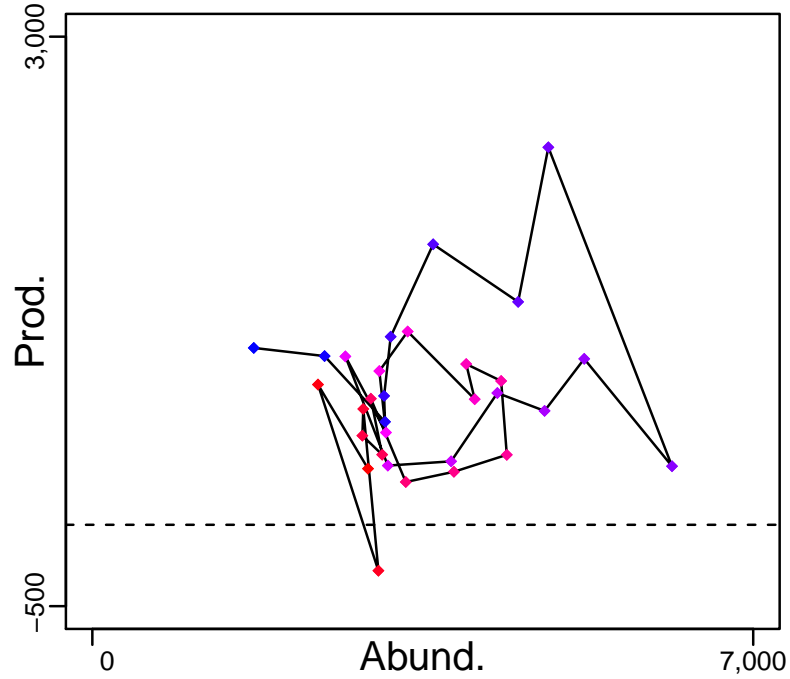
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)



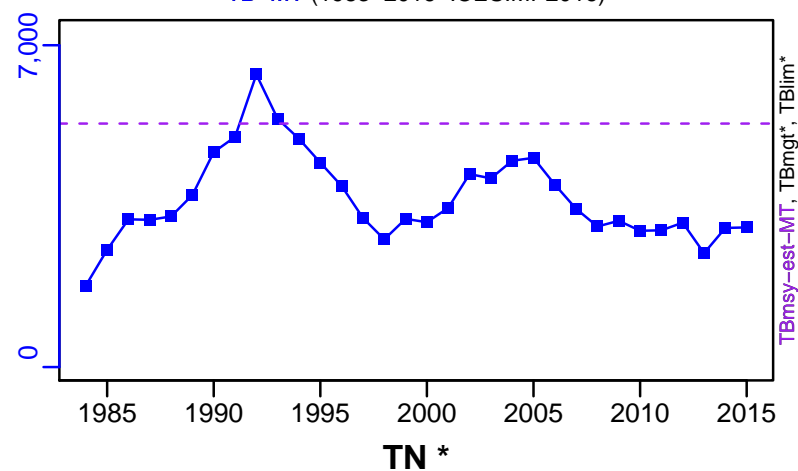
Production (1983–2016–ICESIMP2016)



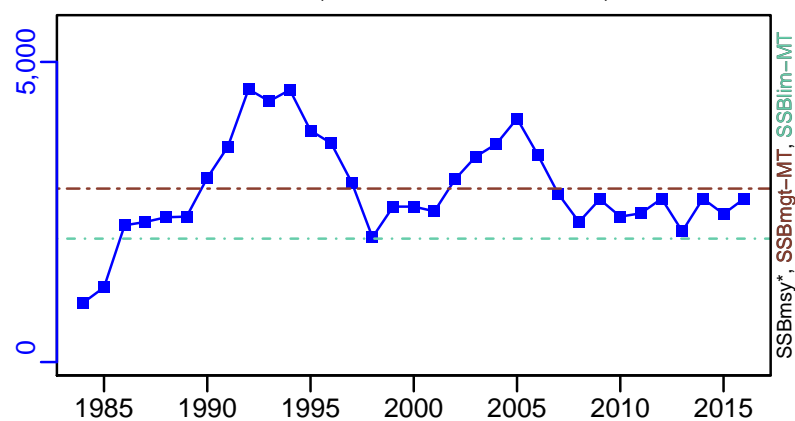
◆ Start Year ◆ End Year * No Data

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

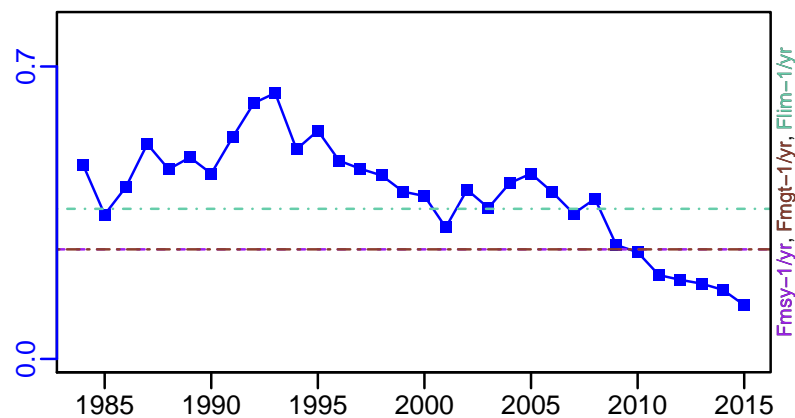
TB–MT (1983–2016–ICESIMP2016)



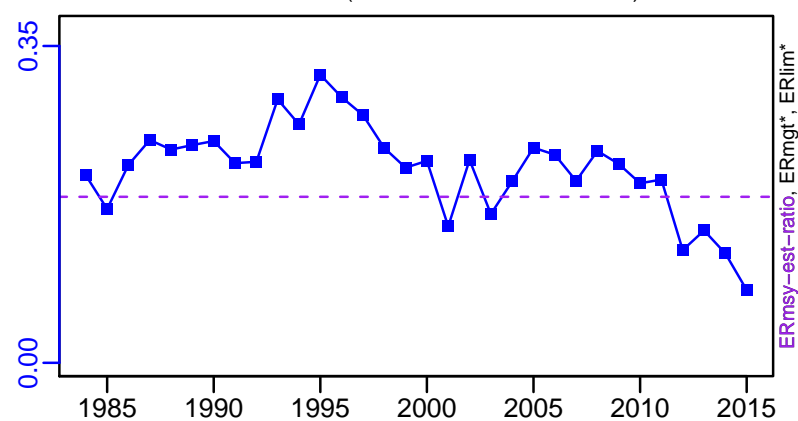
SSB–MT (1983–2016–ICESIMP2016)



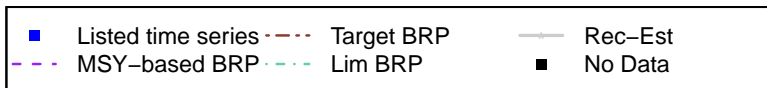
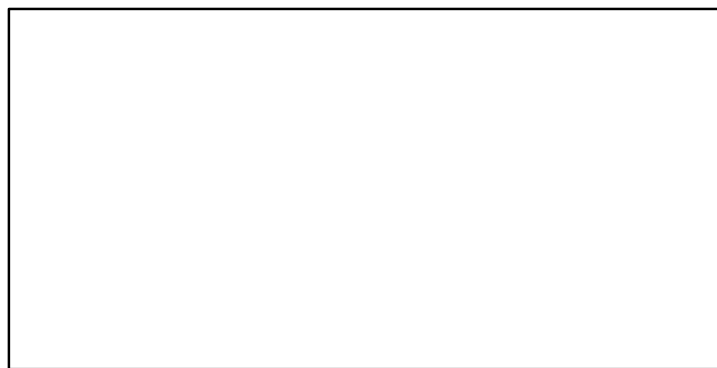
F–1/yr (1983–2016–ICESIMP2016)



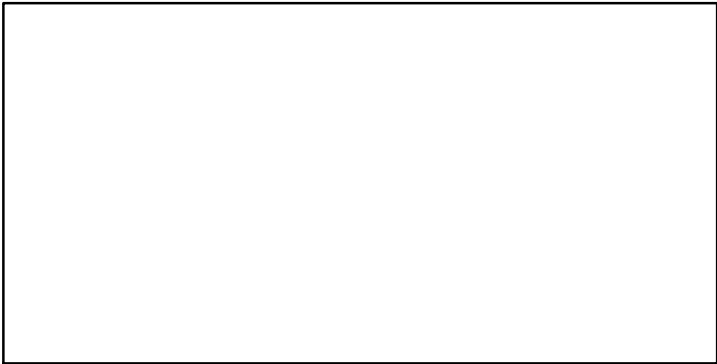
ER–calc–ratio (1983–2016–ICESIMP2016)



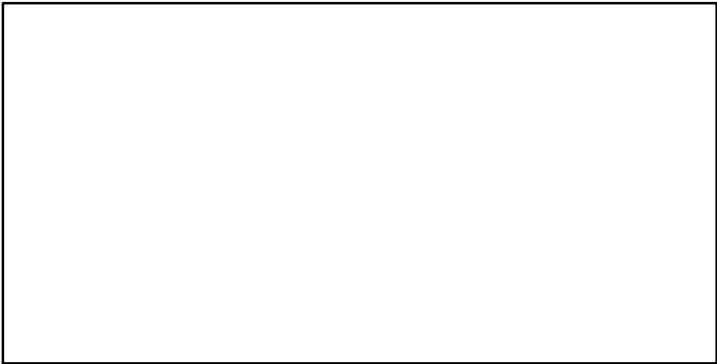
Recruits*



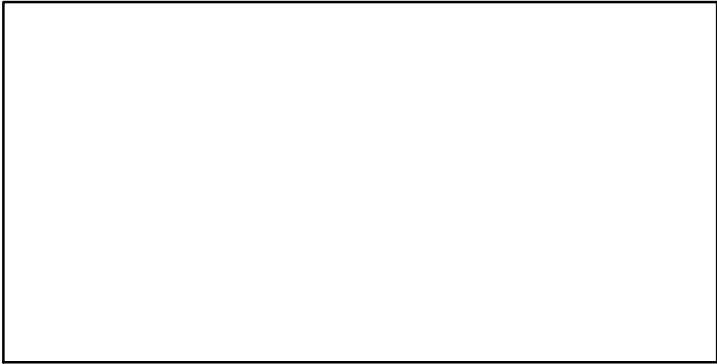
TC*, TL*, RecC*



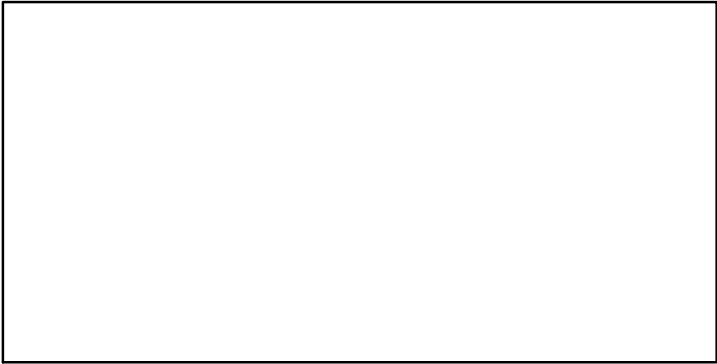
TAC*, Cpair*, Cadv*



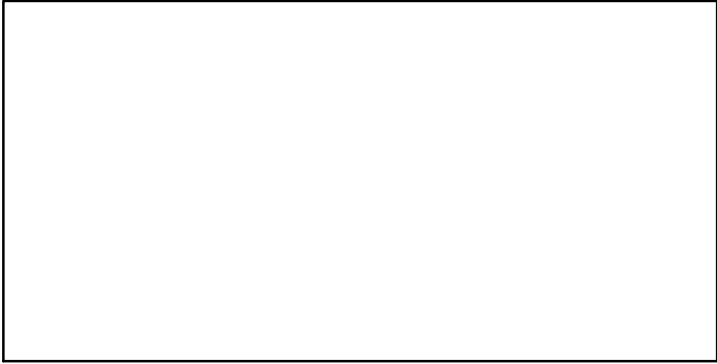
survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- -

MSY

—

MORAT

*

No Data

Common sole Irish Sea [SOLEIS]

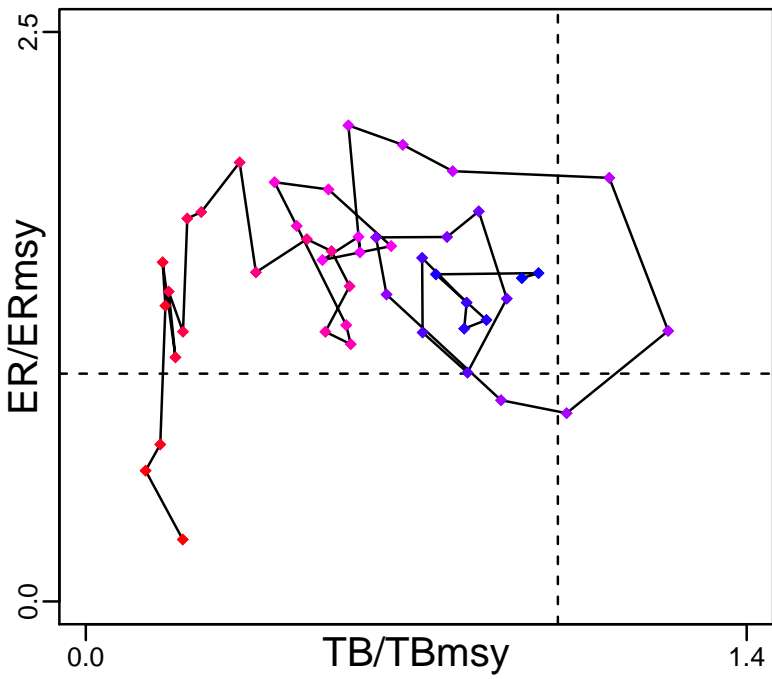
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEIS-1968-2016-ICESIMP2016
Area	Irish Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	7722
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.2
ERmsy	ERmsy-est-ratio	2016	0.18
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	3500
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1362
M	M-1/yr	2011	0.1
TBlim	TBlim-MT	2011	2200
SSBlim	SSBlim-MT	2016	2500
Flim	Flim-1/yr	2016	0.29
ERlim	-	-	-

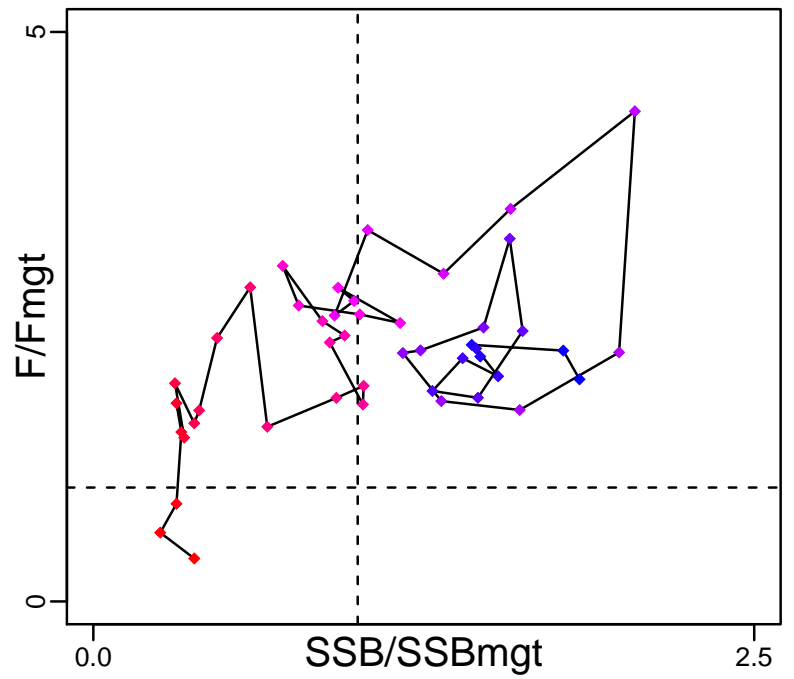
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	1660	-	-
SSB	SSB-MT	2016	1450	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,210,000	-	2
F	F-1/yr	2016	0	-	4 to 7
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	76		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.22		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.38		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.27		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.41		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.38		
ER/ERmgt	-	-	-		

Common sole Irish Sea [SOLEIS]

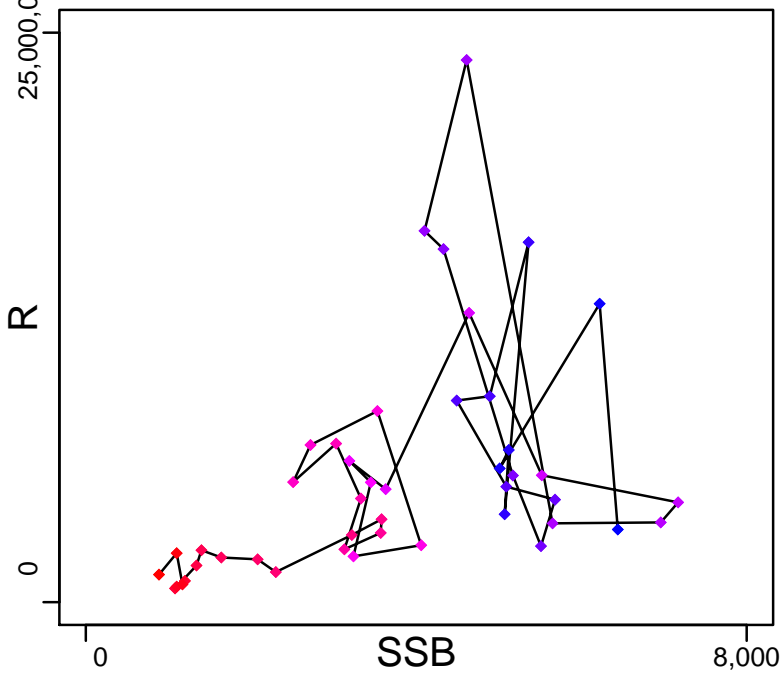
Kobe MSYpref (1968–2016–ICESIMP2016)



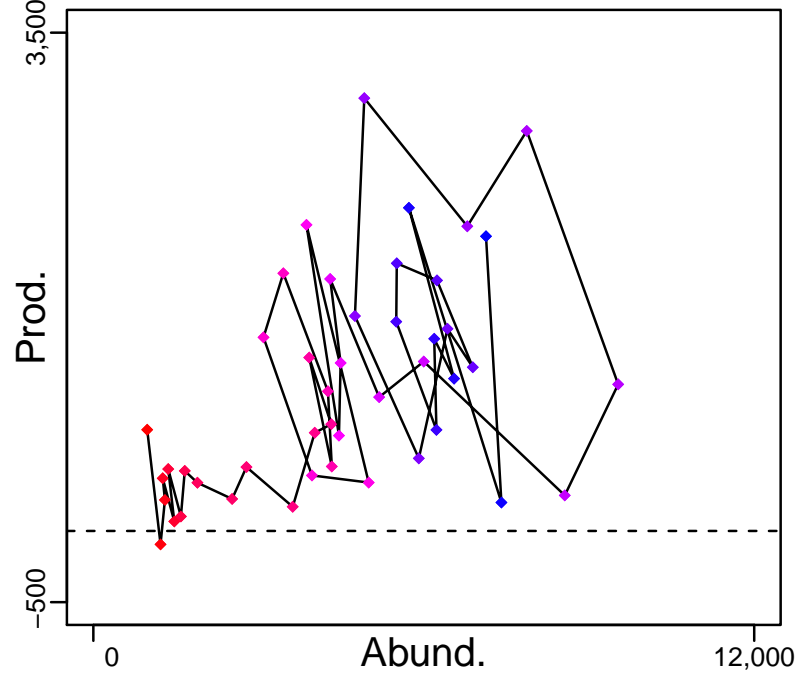
Kobe MGTpref (1968–2016–ICESIMP2016)



Spawner Recruit (1968–2016–ICESIMP2016)



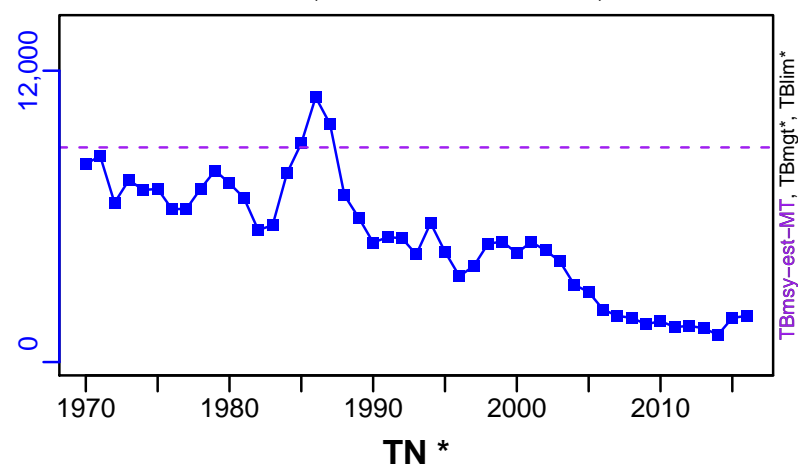
Production (1968–2016–ICESIMP2016)



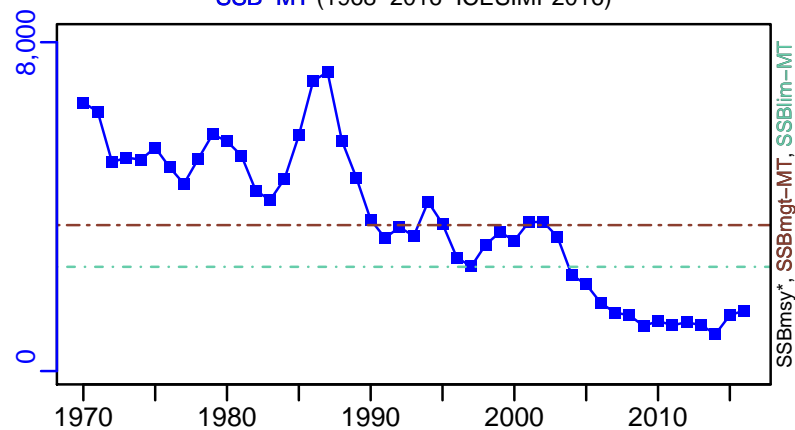
◆ Start Year ◆ End Year * No Data

Common sole Irish Sea [SOLEIS]

TB-MT (1968–2016–ICESIMP2016)



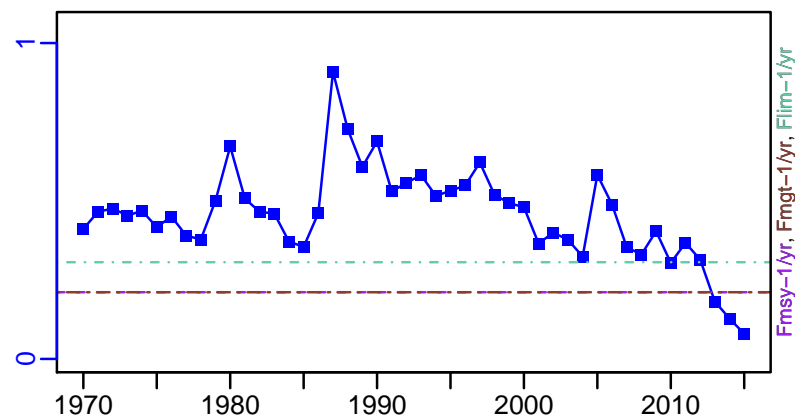
SSB-MT (1968–2016–ICESIMP2016)



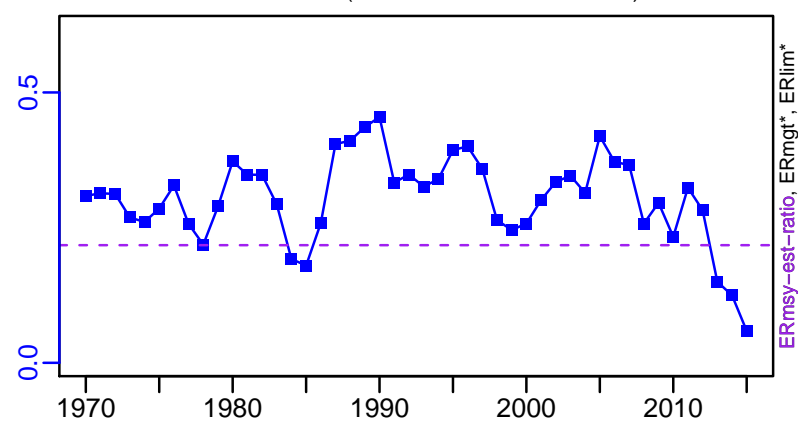
TN *



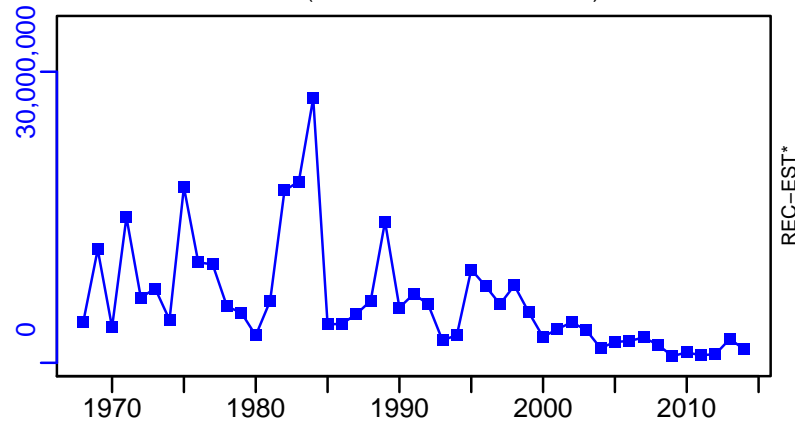
F-1/yr (1968–2016–ICESIMP2016)



ER-calc-ratio (1968–2016–ICESIMP2016)

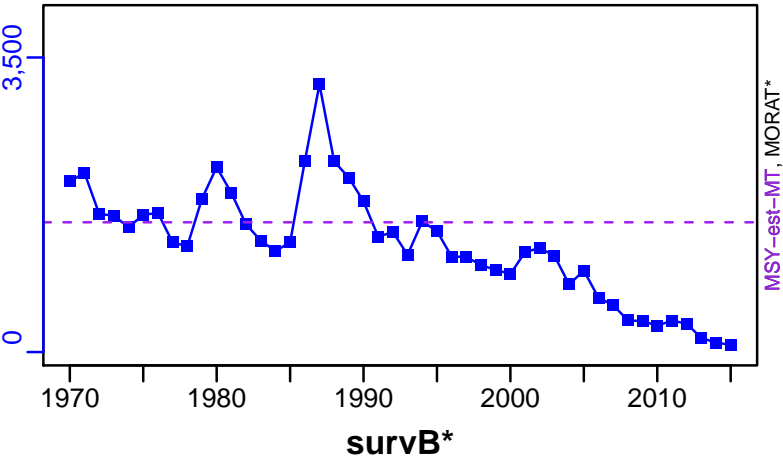


R-E00 (1968–2016–ICESIMP2016)



Common sole Irish Sea [SOLEIS]

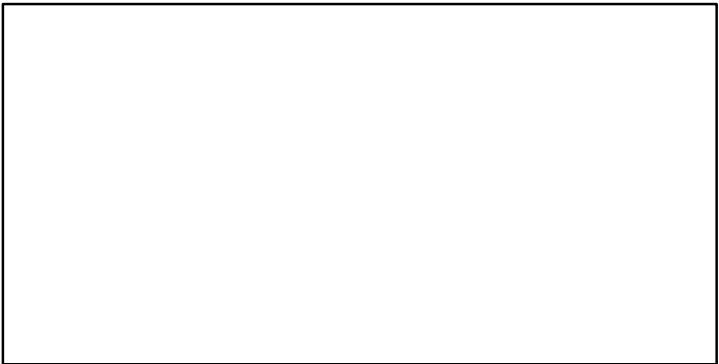
TL-MT, TC*, RecC* (1968-2016-ICESIMP2016)



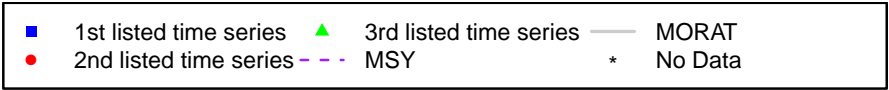
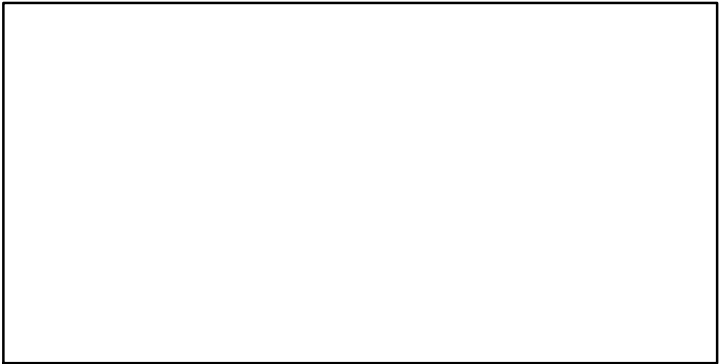
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Common sole North Sea [SOLENS]

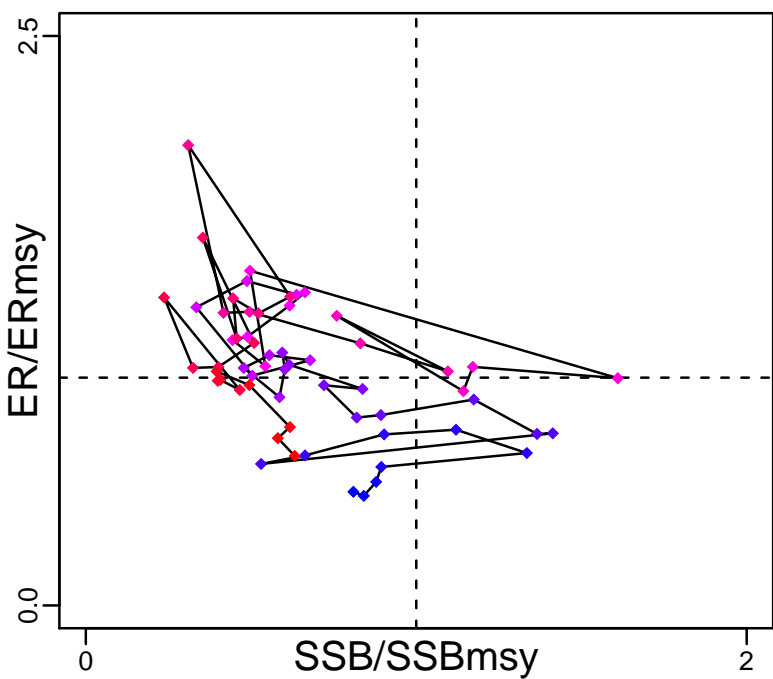
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLENS-1956-2016-ICESIMP2016
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2010, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2015	116,884
SSBmsy	SSBmsy-est-MT	2016	77,711
Fmsy	Fmsy-1/yr	2010	0.22
ERmsy	ERmsy-est-ratio	2016	0.33
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	35,000
Fmgt	Fmgt-1/yr	2016	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	34,446
M	M-1/yr	2010	0.1
TBlim	TBlim-MT	2010	25,000
SSBlim	SSBlim-MT	2016	26,300
Flim	Flim-1/yr	2016	0.62
ERlim	-	-	-

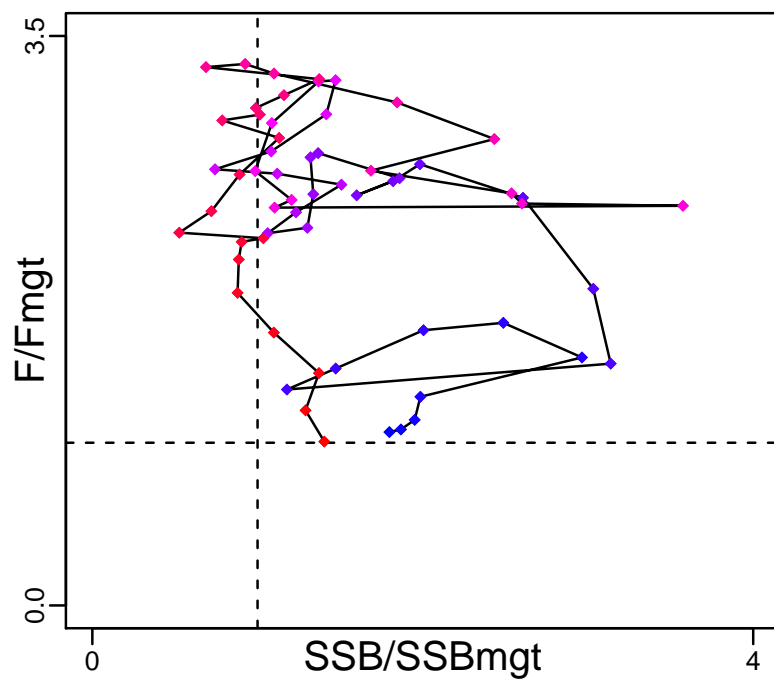
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	55,100	-	-
SSB	SSB-MT	2016	64,300	-	-
TN	-	-	-	-	-
R	R-E00	2016	59,200,000	-	1
F	F-1/yr	2016	0	-	2 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	14,300		
TL	TL-MT	2016	12,600		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.47		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.83		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	1.55		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.66		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.84		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.01		
ER/ERmgt	-	-	-		

Common sole North Sea [SOLENS]

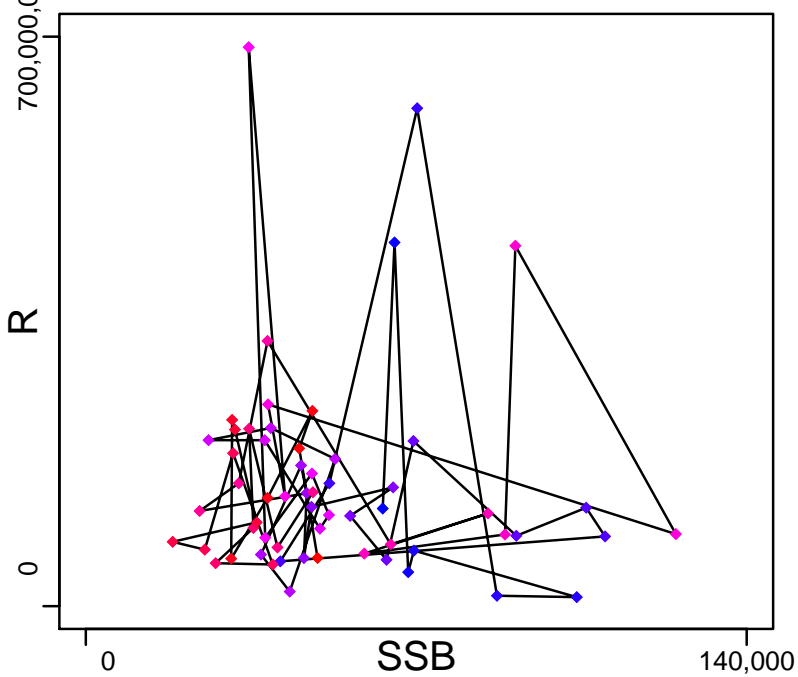
Kobe MSYpref (1956–2016–ICESIMP2016)



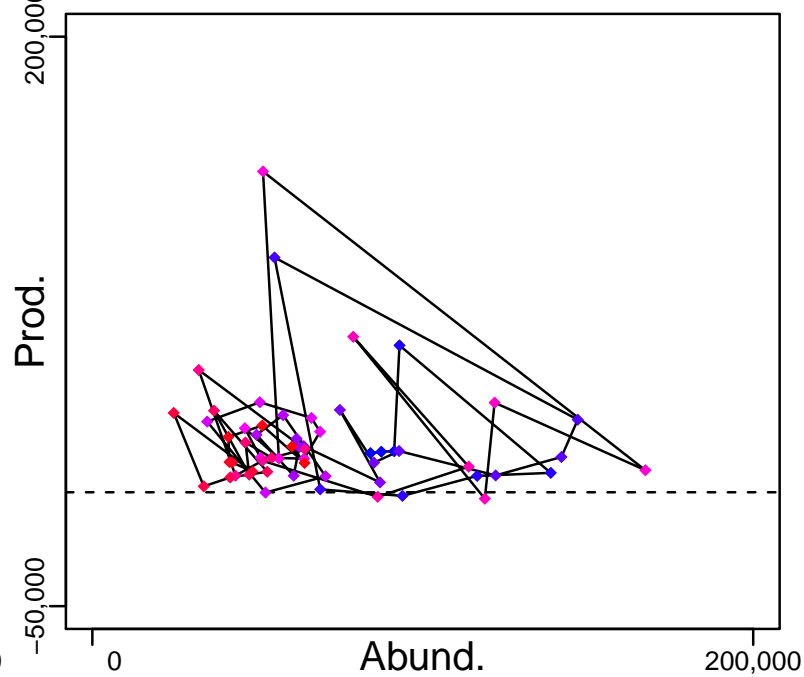
Kobe MGTpref (1956–2016–ICESIMP2016)



Spawner Recruit (1956–2016–ICESIMP2016)



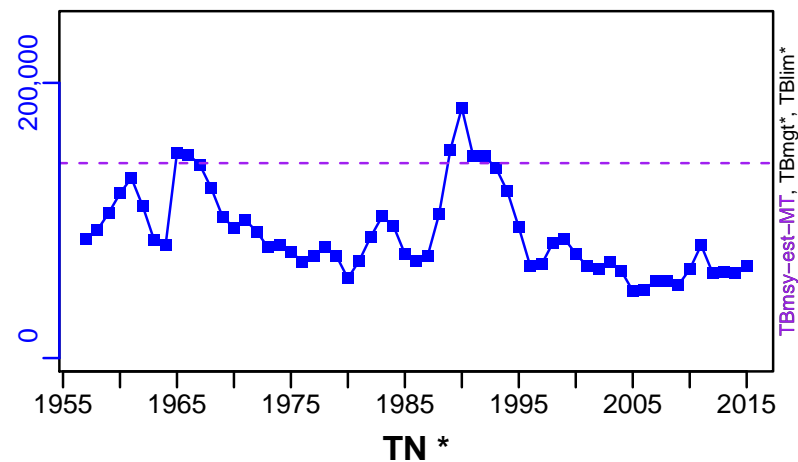
Production (1956–2016–ICESIMP2016)



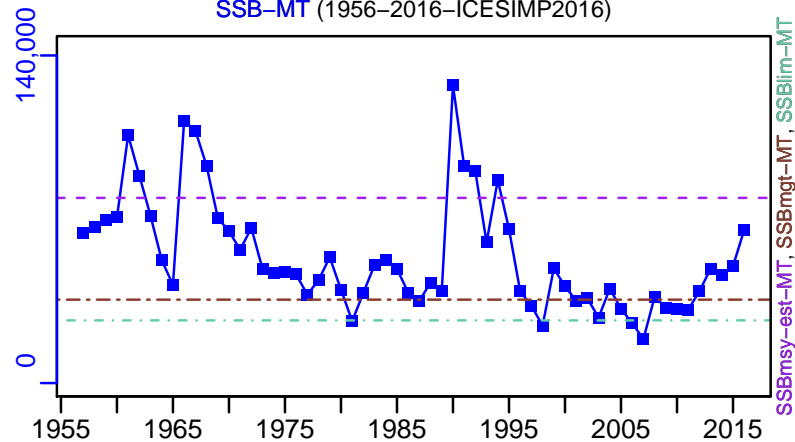
◆ Start Year ◆ End Year * No Data

Common sole North Sea [SOLENS]

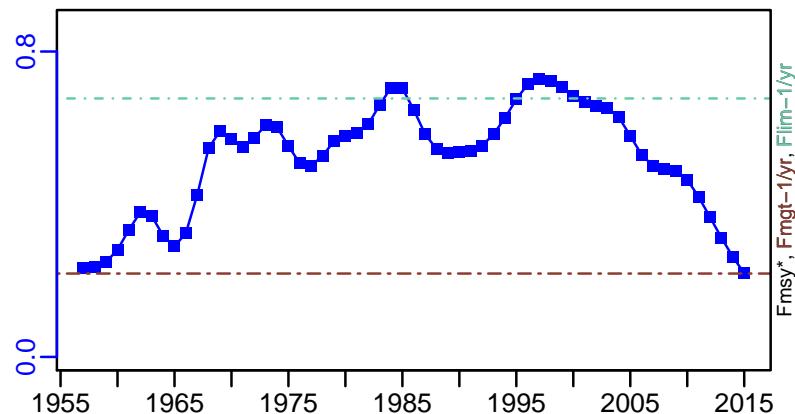
TB-MT (1956–2015–ICESIMP2016)



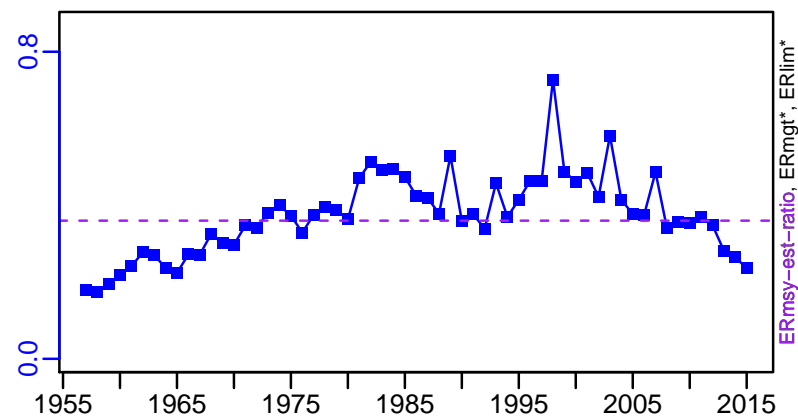
SSB-MT (1956–2016–ICESIMP2016)



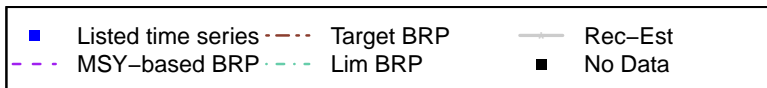
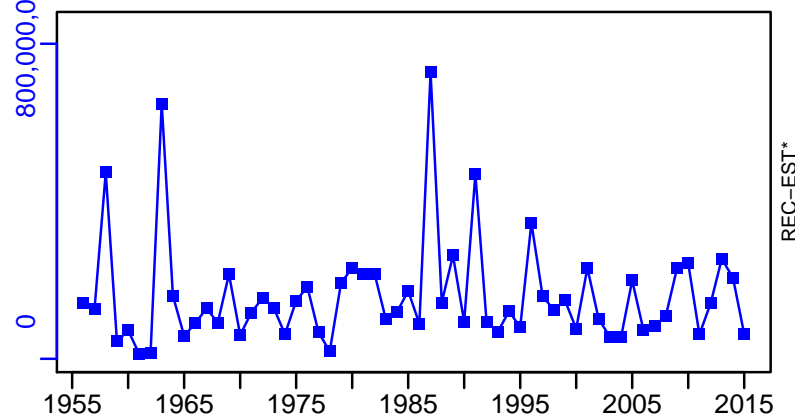
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2016–ICESIMP2016)

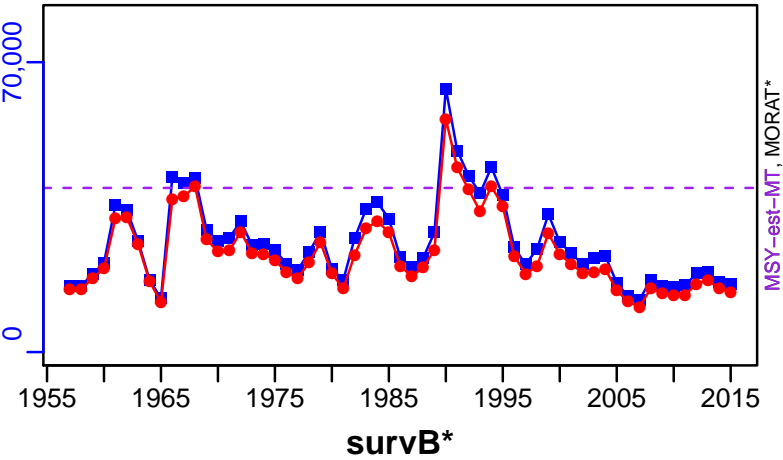


R-E00 (1956–2016–ICESIMP2016)



Common sole North Sea [SOLENS]

TC-MT, TL-MT, RecC* (1956–2016–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



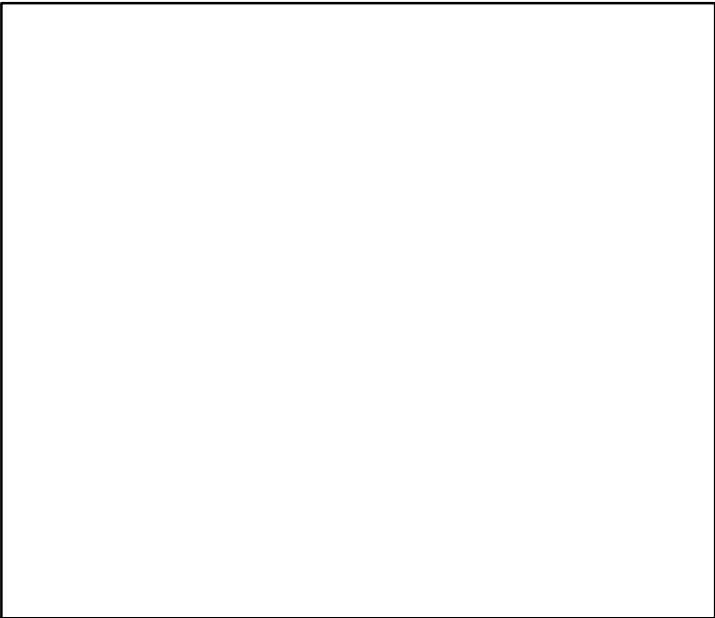
Common sole VIIbc [SOLEVIIbc]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIbc-1993-2015-ICESIMP2016
Area	VIIbc
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
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	27		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

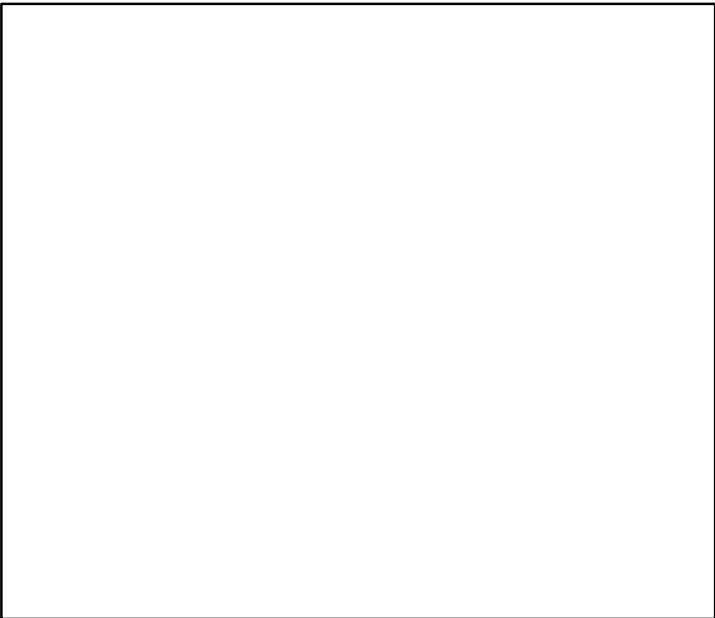
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Common sole VIIbc [SOLEVIIbc]

TB*



SSB*



TN *



F*



ER*



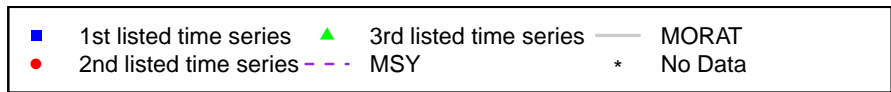
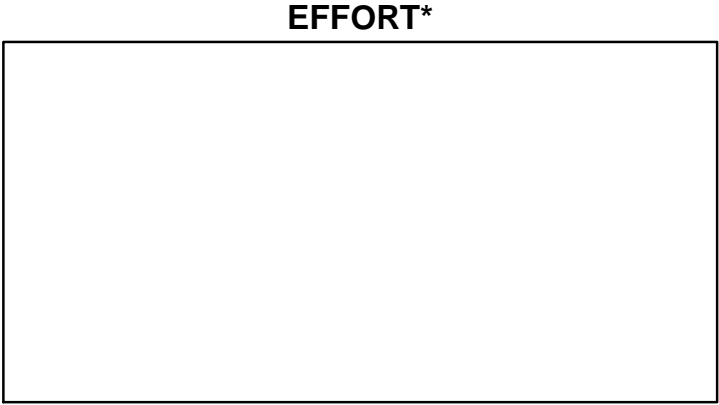
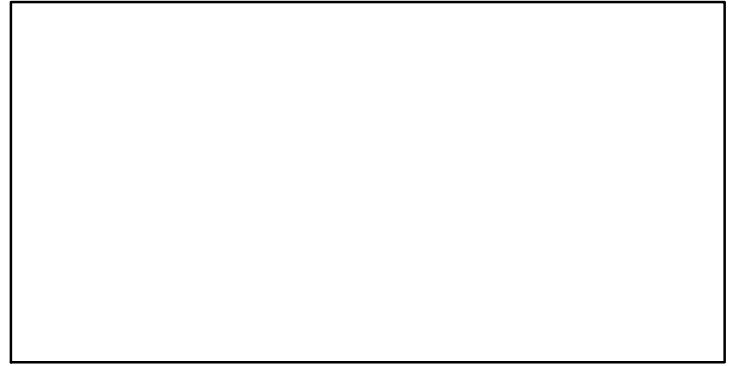
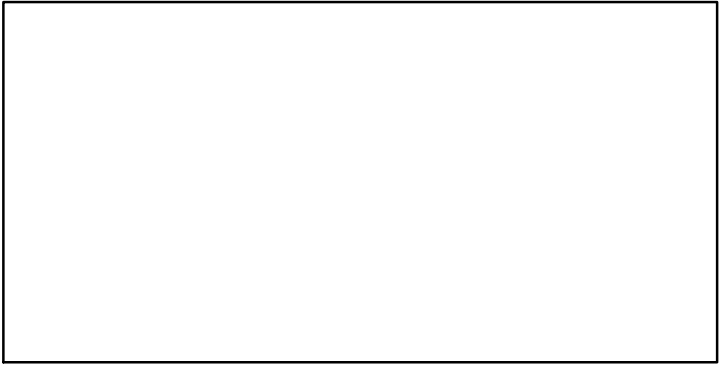
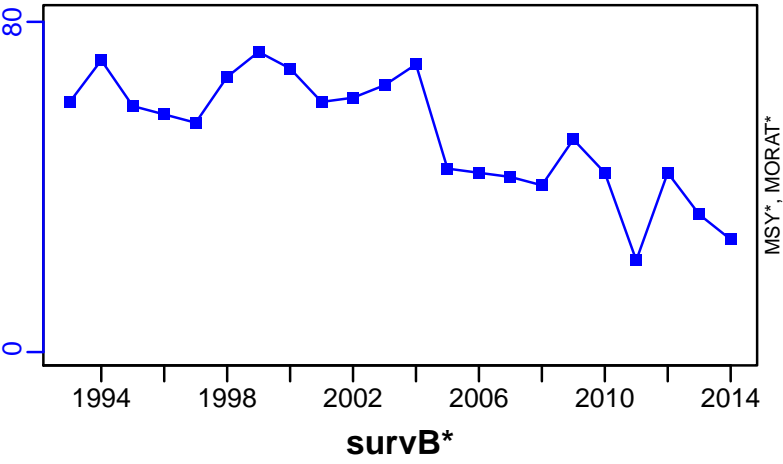
Recruits*



Common sole VIIbc [SOLEVIIbc]

TL-MT, TC*, RecC* (1993–2015–ICESIMP2016)

TAC*, Cpair*, Cadv*



Common sole ICES VIId [SOLEVIId]

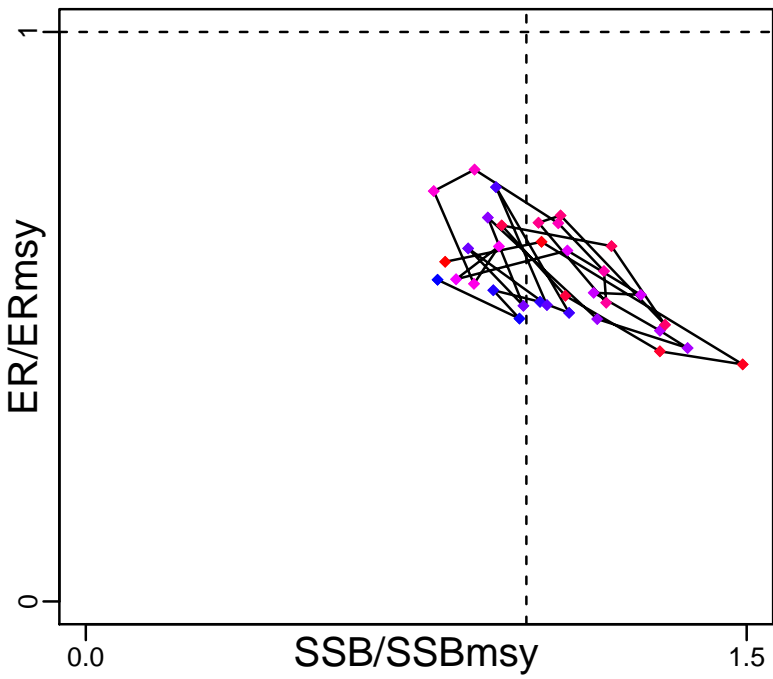
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGNSSK-SOLEVIId-1981-2016-ICESIMP2016
Area	Eastern English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	13,224
SSBmsy	SSBmsy-est-MT	2016	9685
Fmsy	Fmsy-1/yr	2016	0.3
ERmsy	ERmsy-est-ratio	2016	0.55
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	8000
Fmgt	Fmgt-1/yr	2016	0.3
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	7074
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	Flim-1/yr	2016	0.55
ERlim	-	-	-

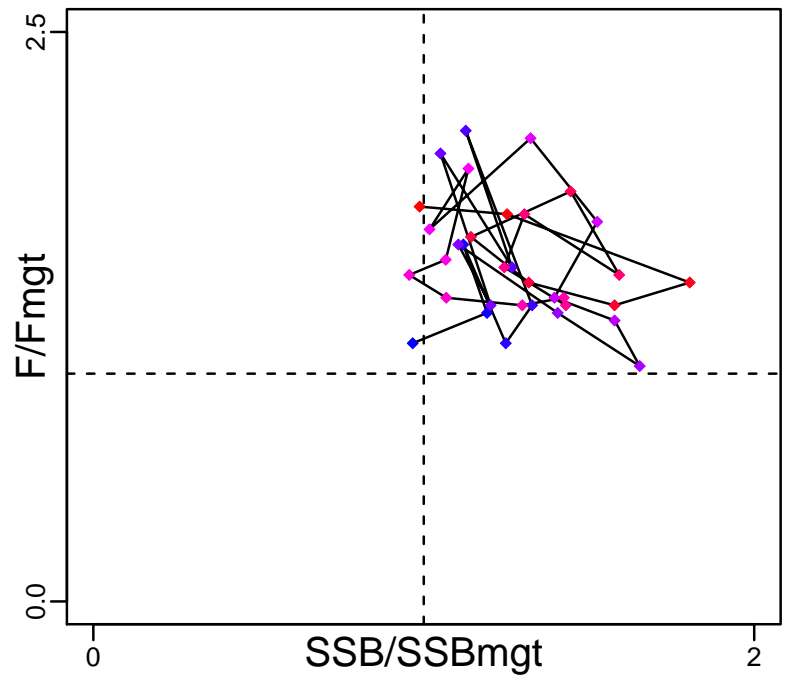
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	14,700	-	-
SSB	SSB-MT	2016	7080	-	-
TN	-	-	-	-	-
R	R-E00	2016	23,700,000	-	1
F	F-1/yr	2016	1	-	3 to 7
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	3440		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.11		
SSB/SSBmsy	SSB-MT/SSBmsy-est-MT	2016	0.73		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.73		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.6		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.89		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.73		
ER/ERmgt	-	-	-		

Common sole ICES VIld [SOLEVIld]

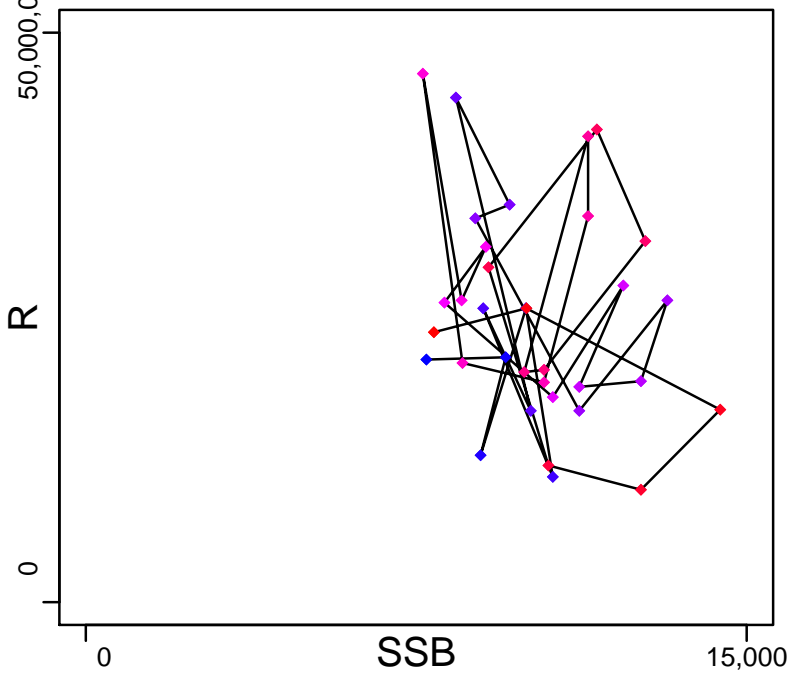
Kobe MSYpref (1981–2016–ICESIMP2016)



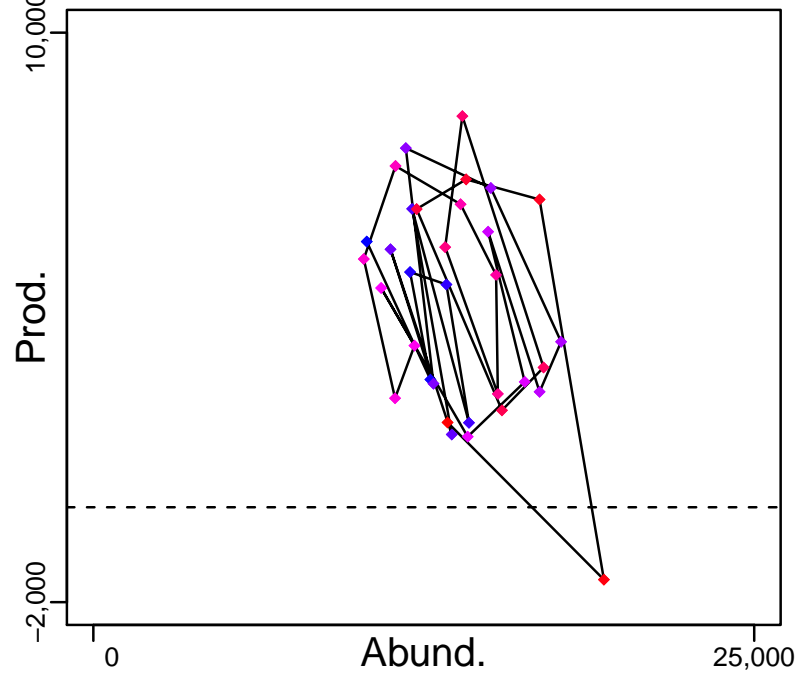
Kobe MGTpref (1981–2016–ICESIMP2016)



Spawner Recruit (1981–2016–ICESIMP2016)



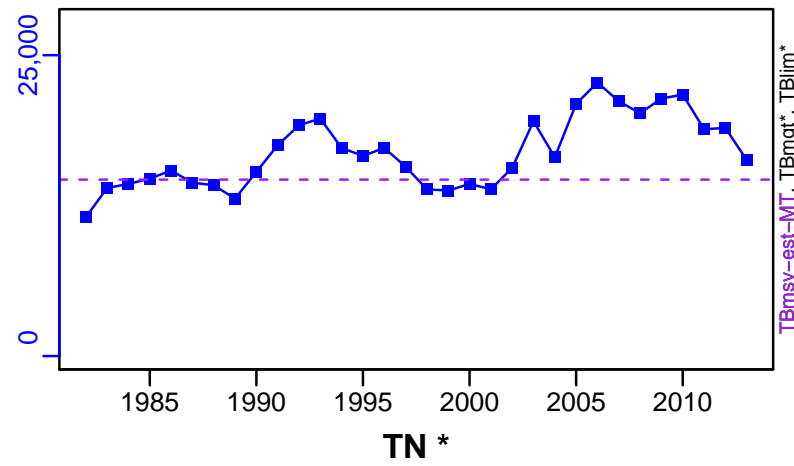
Production (1981–2016–ICESIMP2016)



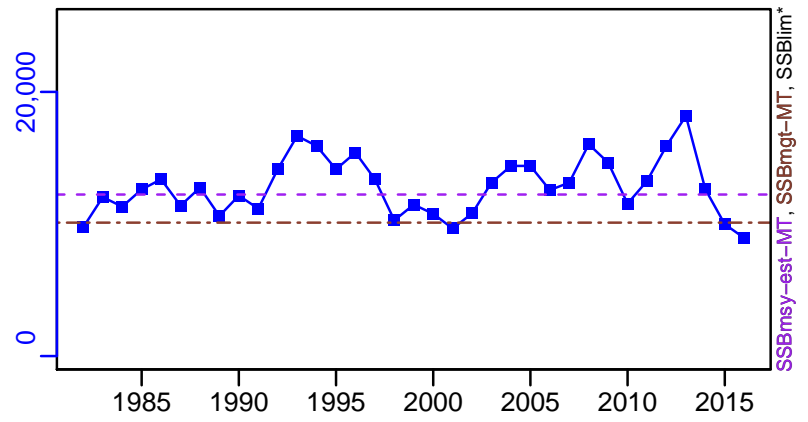
◆ Start Year ◆ End Year * No Data

Common sole ICES VIld [SOLEVIld]

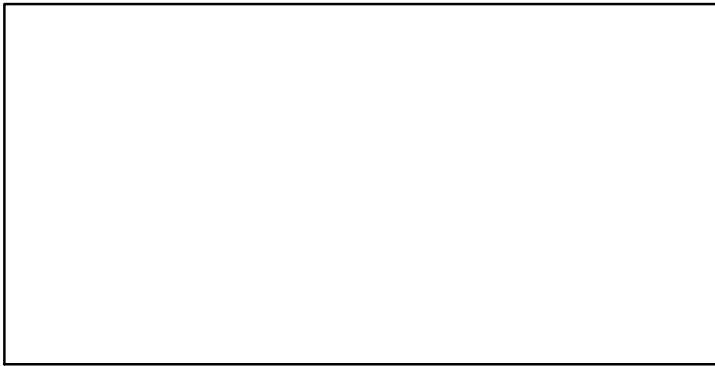
TB-MT (1981-2014-ICESIMP2016)



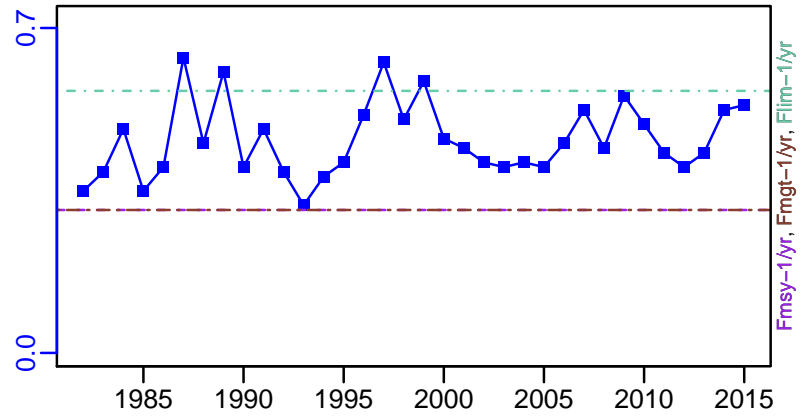
SSB-MT (1981-2016-ICESIMP2016)



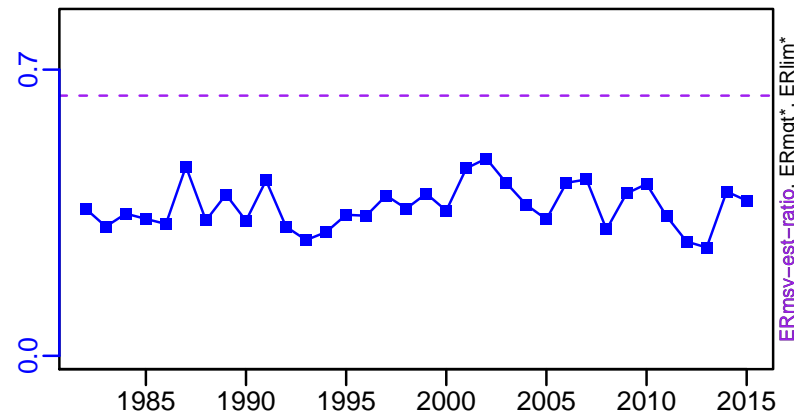
TN *



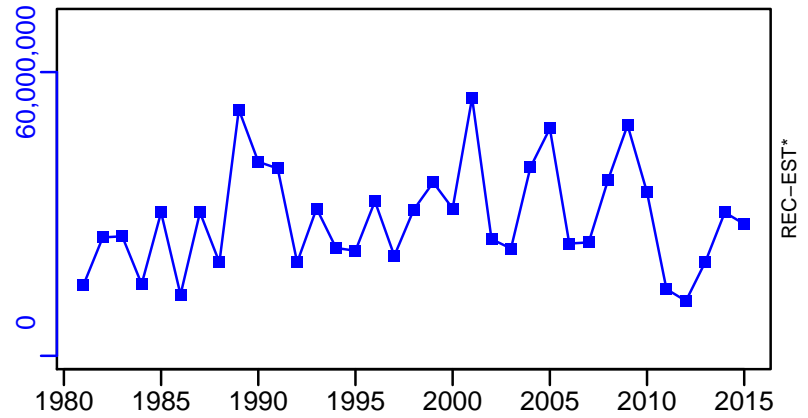
F-1/yr (1981-2016-ICESIMP2016)



ER-calc-ratio (1981-2016-ICESIMP2016)

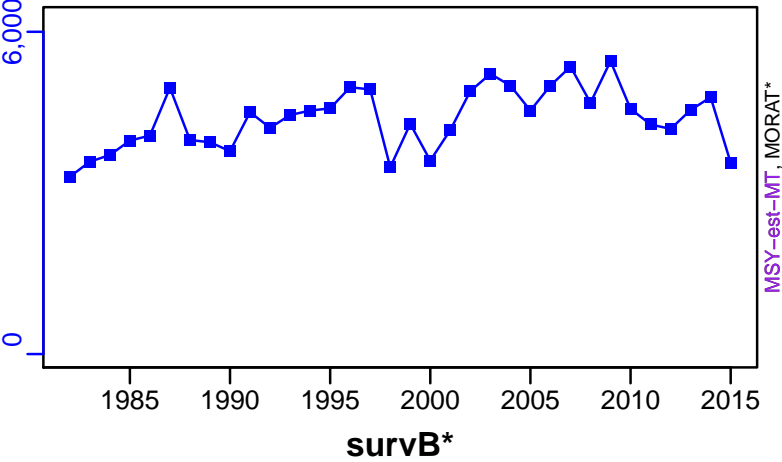


R-E00 (1981-2016-ICESIMP2016)



Common sole ICES VIId [SOLEVIId]

TL-MT, TC*, RecC* (1981-2016-ICESIMP2016)



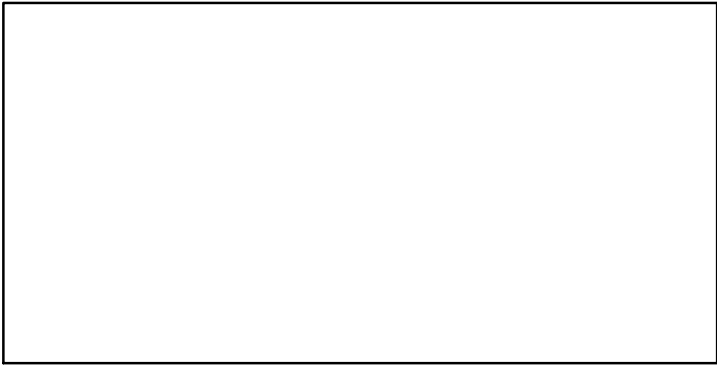
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Common sole Western English Channel [SOLEVIIe]

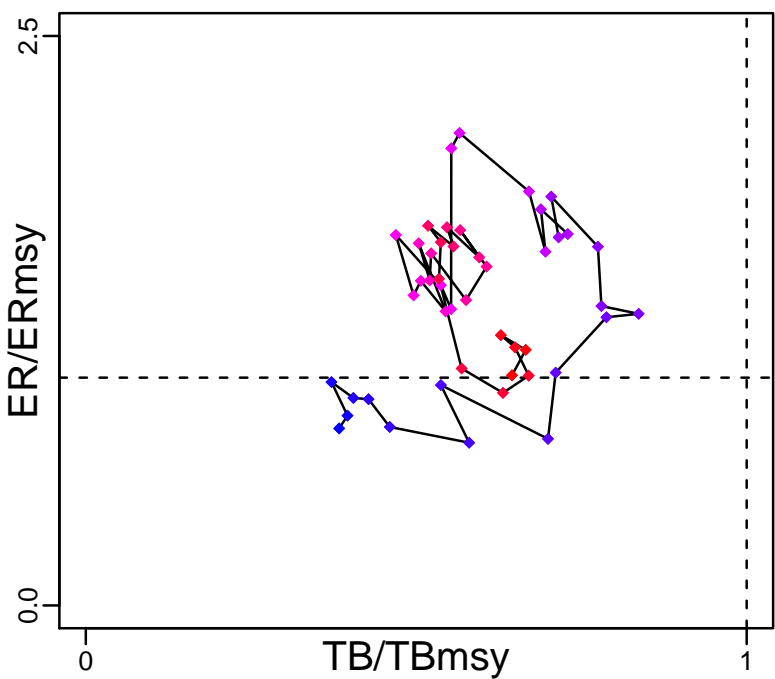
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIe-1967-2016-ICESIMP2016
Area	Western English Channel
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2015, 2016, 2013, 2014, 2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	7635
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.29
ERmsy	ERmsy-est-ratio	2016	0.16
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	2900
Fmgt	Fmgt-1/yr	2016	0.29
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	1185
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	2000
Flim	Flim-1/yr	2016	0.44
ERlim	-	-	-

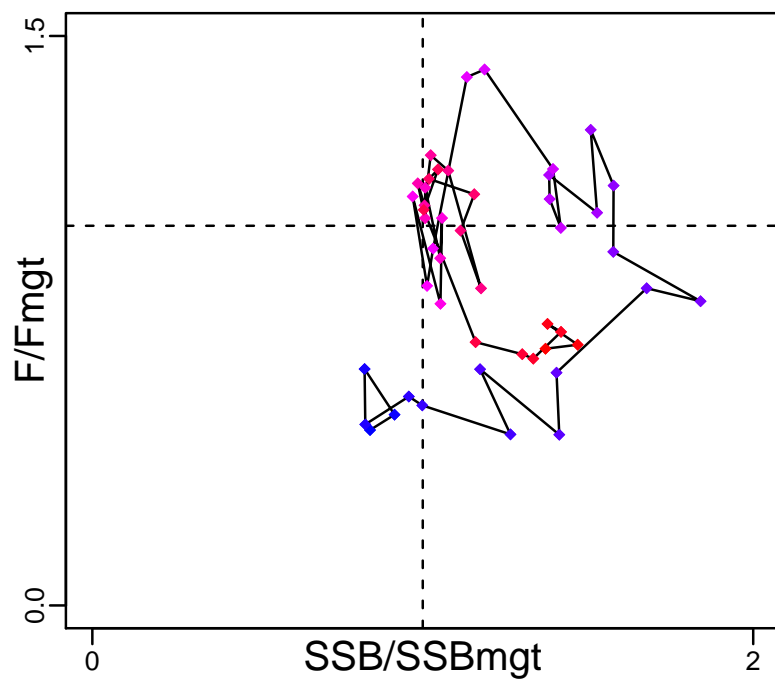
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	4920	-	-
SSB	SSB-MT	2016	4030	-	-
TN	-	-	-	-	-
R	R-E00	2016	3,910,000	-	2
F	F-1/yr	2016	0	-	3 to 9
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	772		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.64		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.68		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.01		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.39		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.68		
ER/ERmgt	-	-	-		

Common sole Western English Channel [SOLEVile]

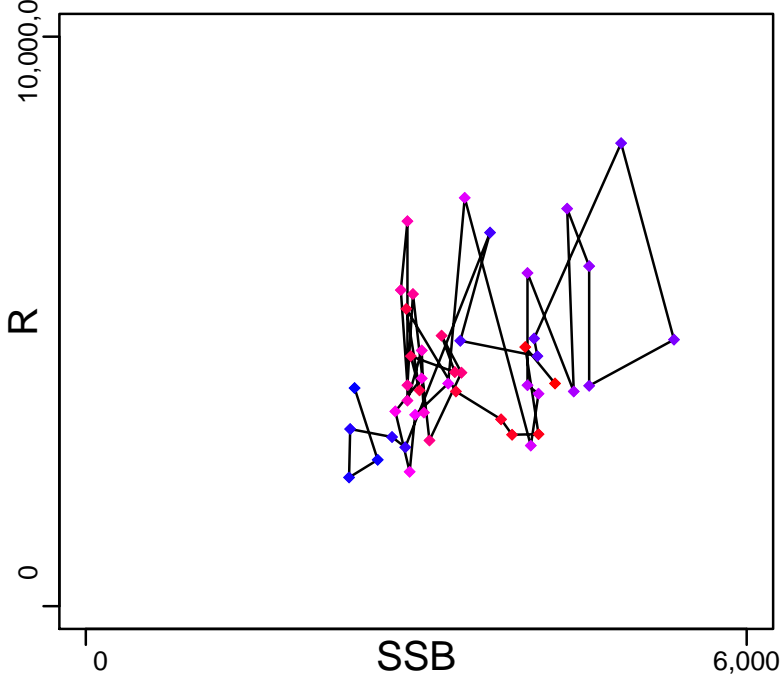
Kobe MSYpref (1967–2016–ICESIMP2016)



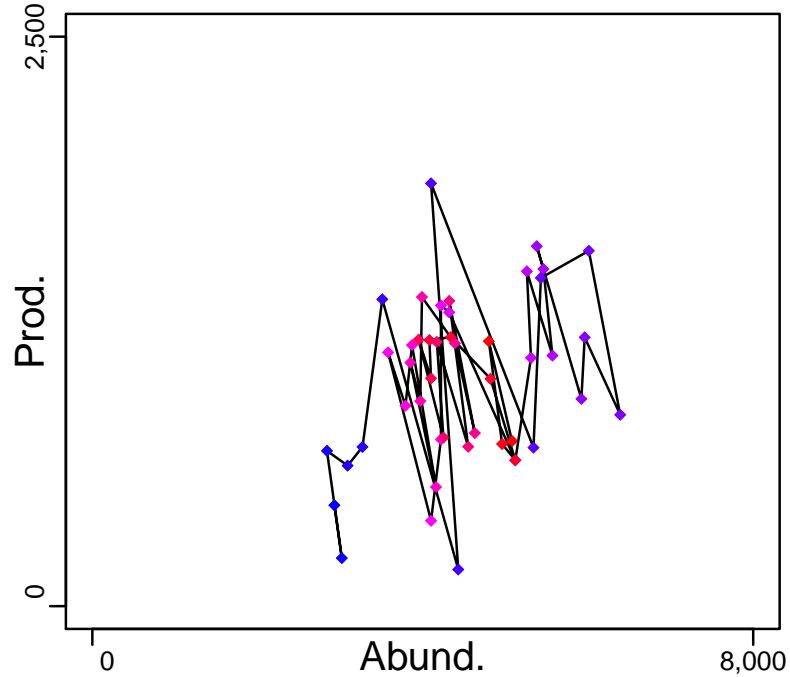
Kobe MGTpref (1967–2016–ICESIMP2016)



Spawner Recruit (1967–2016–ICESIMP2016)



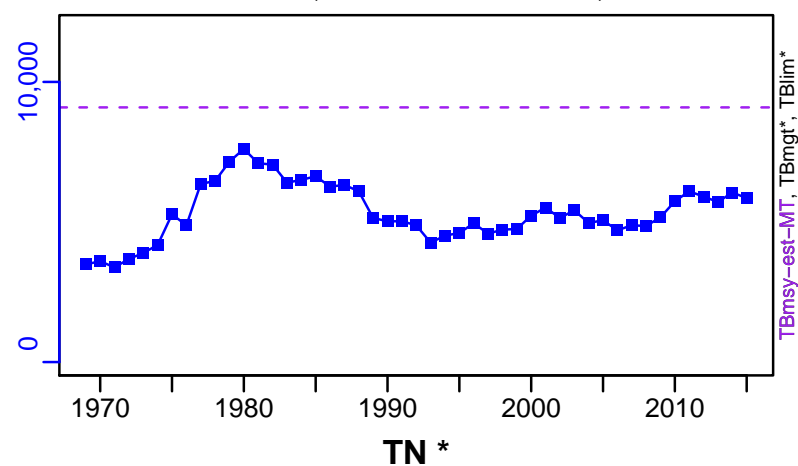
Production (1967–2016–ICESIMP2016)



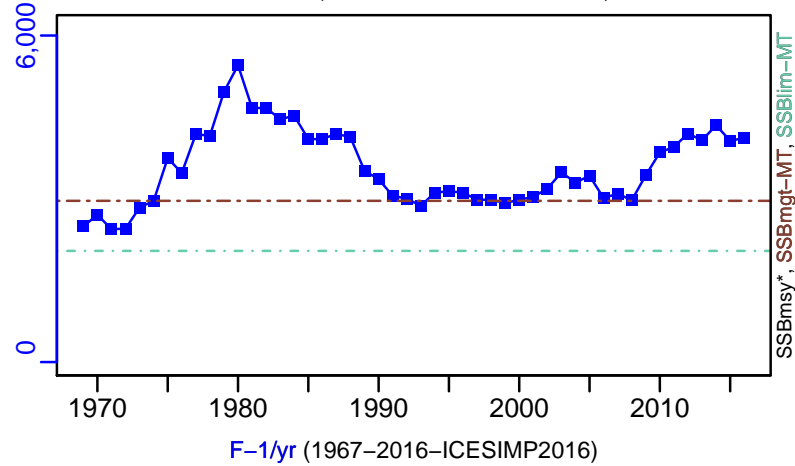
◆ Start Year ◆ End Year * No Data

Common sole Western English Channel [SOLEVile]

TB-MT (1967–2016–ICESIMP2016)



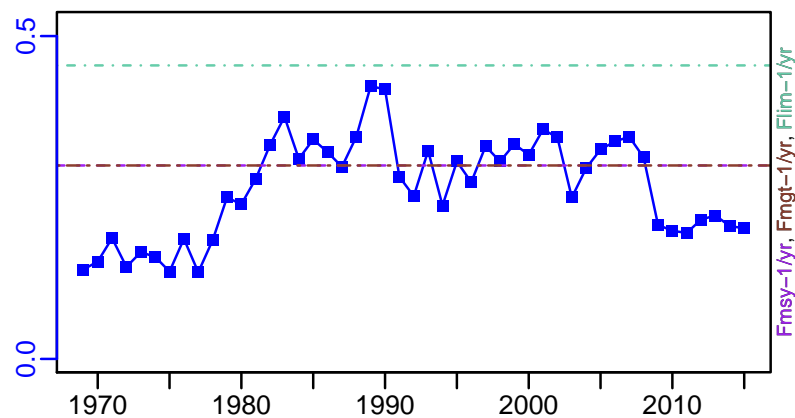
SSB-MT (1967–2016–ICESIMP2016)



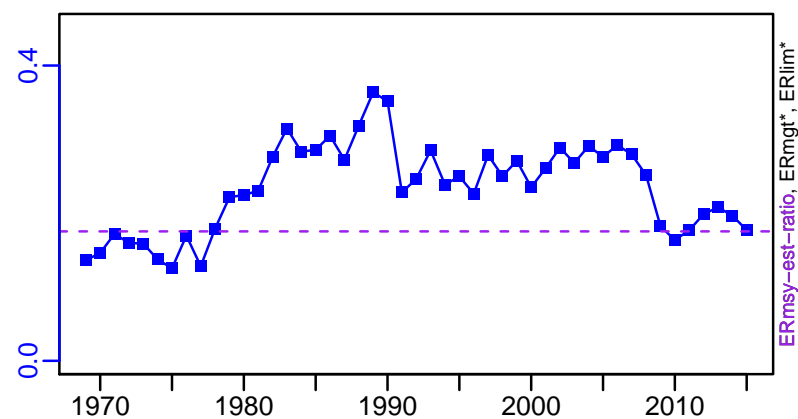
TN *



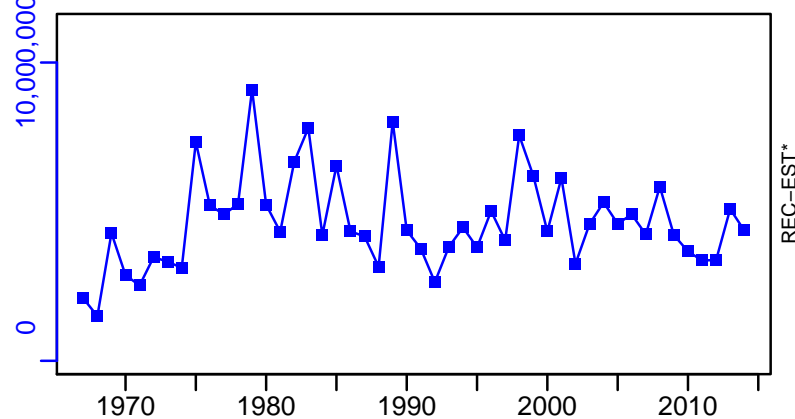
F-1/yr (1967–2016–ICESIMP2016)



ER-calc-ratio (1967–2016–ICESIMP2016)



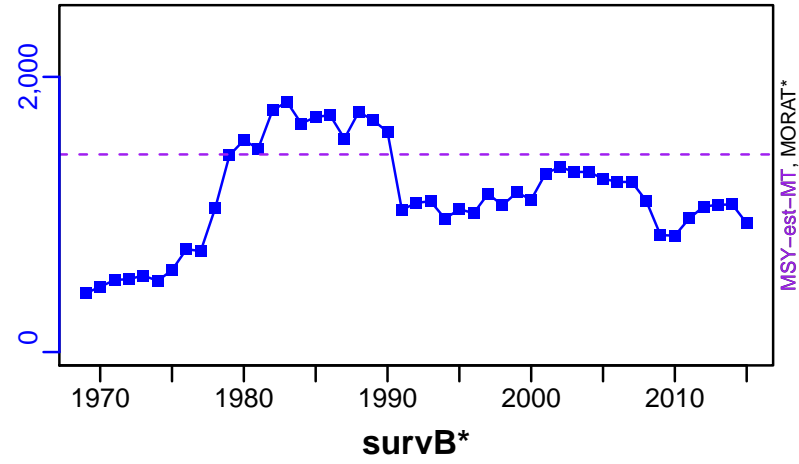
R-E00 (1967–2016–ICESIMP2016)



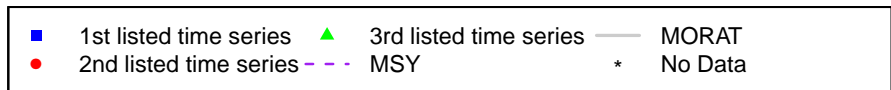
Common sole Western English Channel [SOLEVile]

TL-MT, TC*, RecC* (1967-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



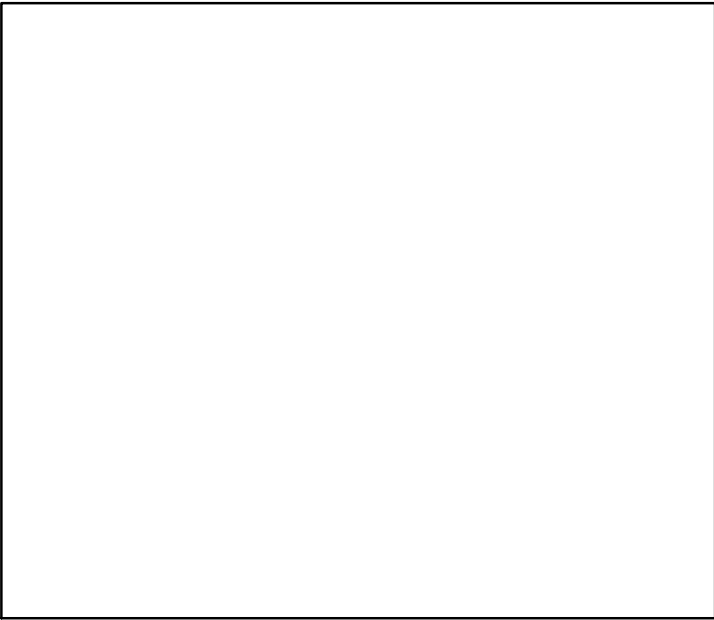
Common sole VIIh-k [SOLEVIIh-k]

Metadata	
Scientific Name	Solea solea
Current Assess ID	WGCSE-SOLEVIIh-k-1990-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

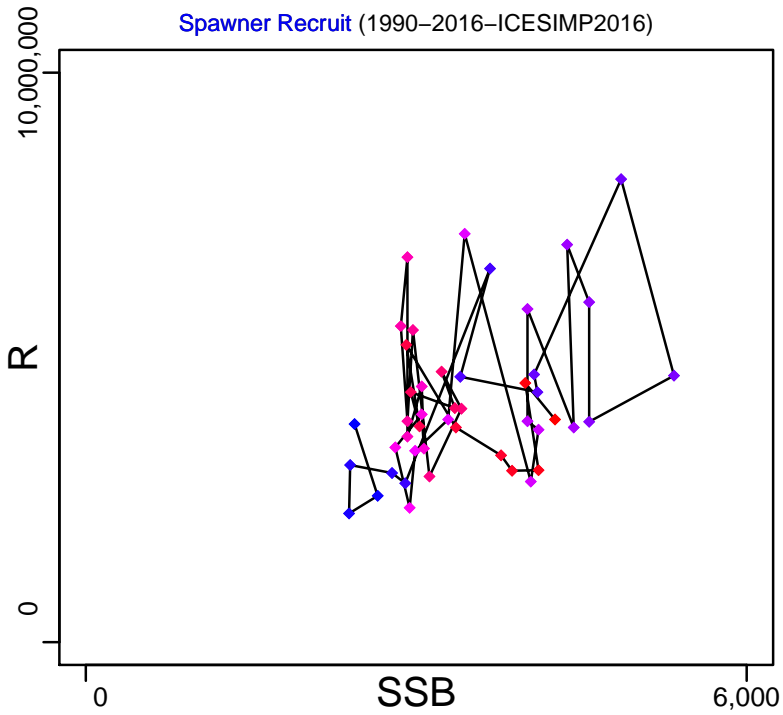
Kobe MSY*



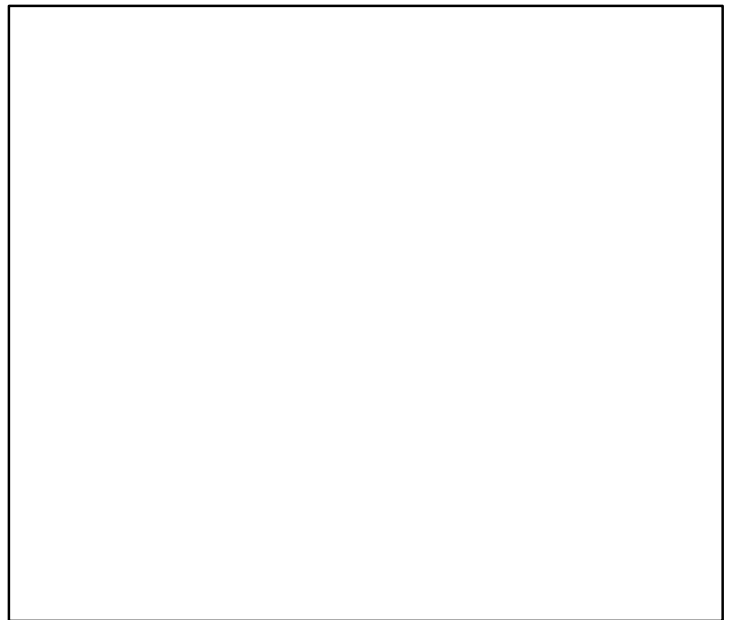
Kobe MGT*



Spawner Recruit (1990–2016–ICESIMP2016)



Production*



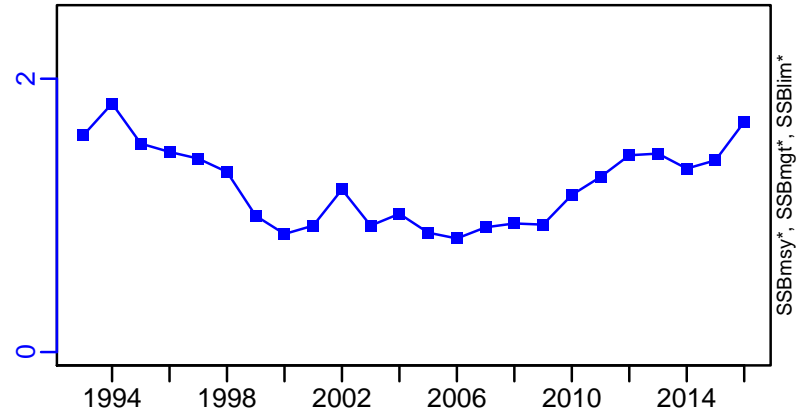
◆ Start Year ◆ End Year * No Data

Common sole VIIh-k [SOLEVIIh-k]

TB*



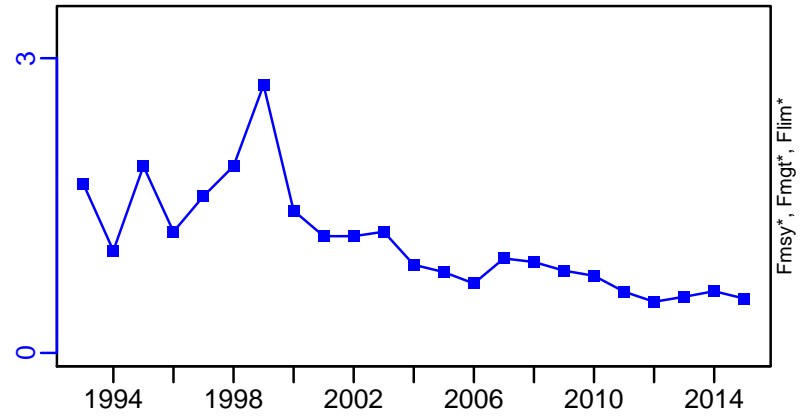
SSB-relative (1990-2016-ICESIMP2016)



TN *



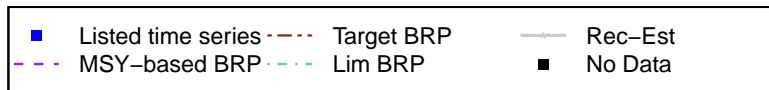
F-relative (1990-2016-ICESIMP2016)



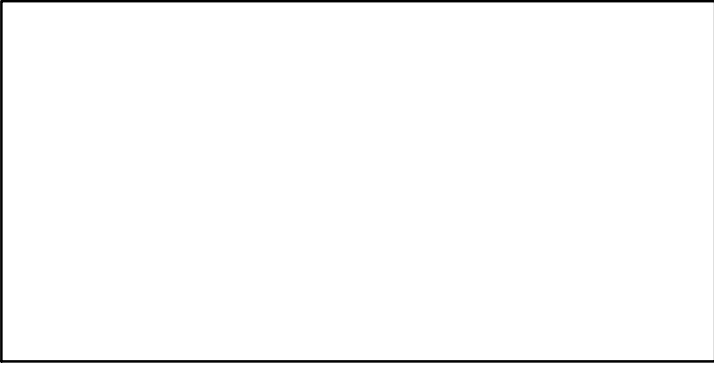
ER*



Recruits*



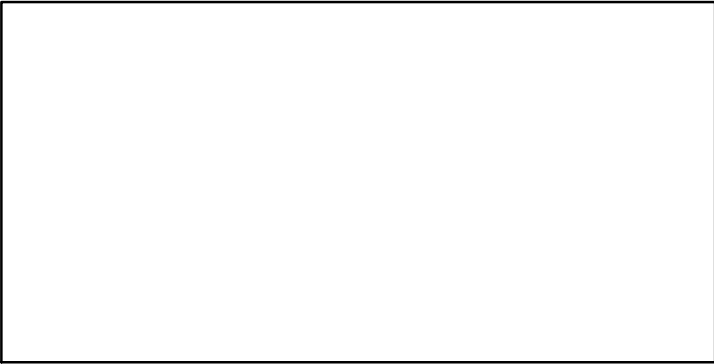
TC*, TL*, RecC*



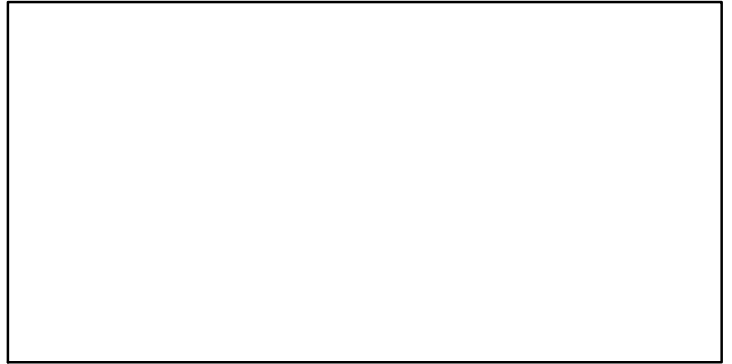
TAC*, Cpair*, Cadv*



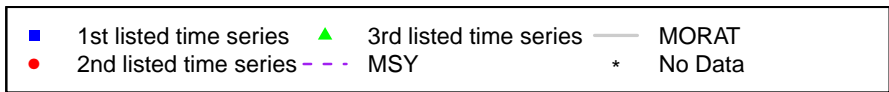
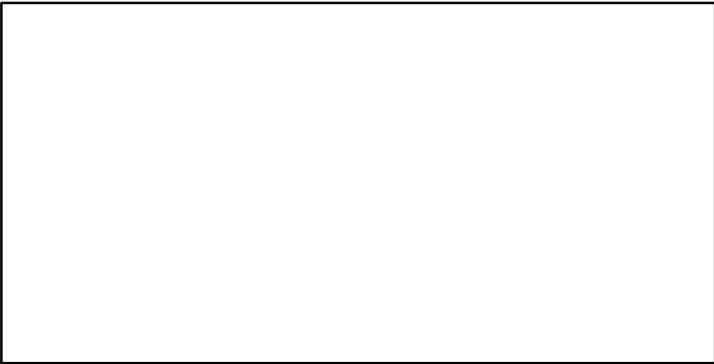
survB*



CPUE*



EFFORT*



Common sole Villab [SOLEVillab]

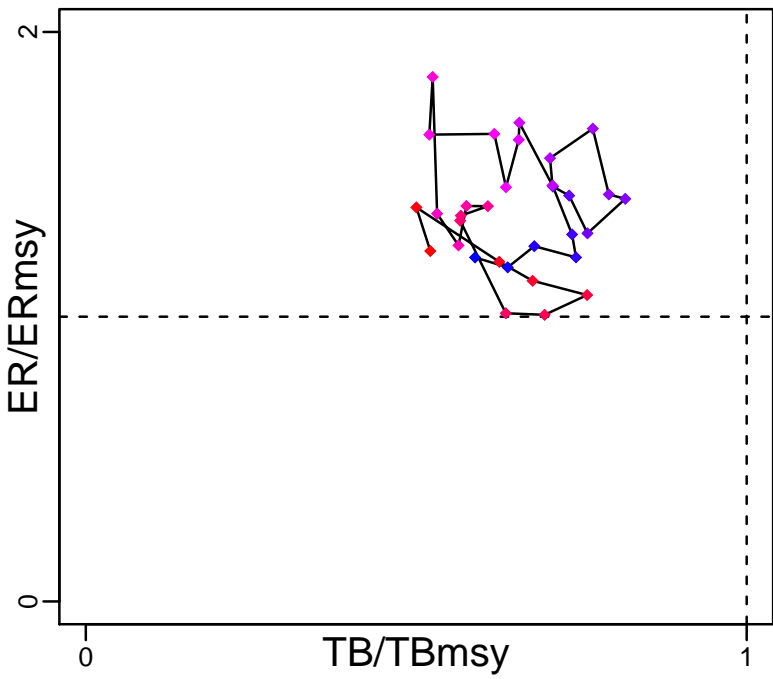
Metadata	
Scientific Name	Solea solea
Current Assess ID	WGBIE-SOLEVillab-1982-2016-ICESIMP2016
Area	Villab
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2016, 2014, 2015, 2011, 2013

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	25,151
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.33
ERmsy	ERmsy-est-ratio	2016	0.23
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	10,600
Fmgt	Fmgt-1/yr	2016	0.33
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	5675
M	M-1/yr	2011	0.1
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	7600
Flim	Flim-1/yr	2016	0.6
ERlim	-	-	-

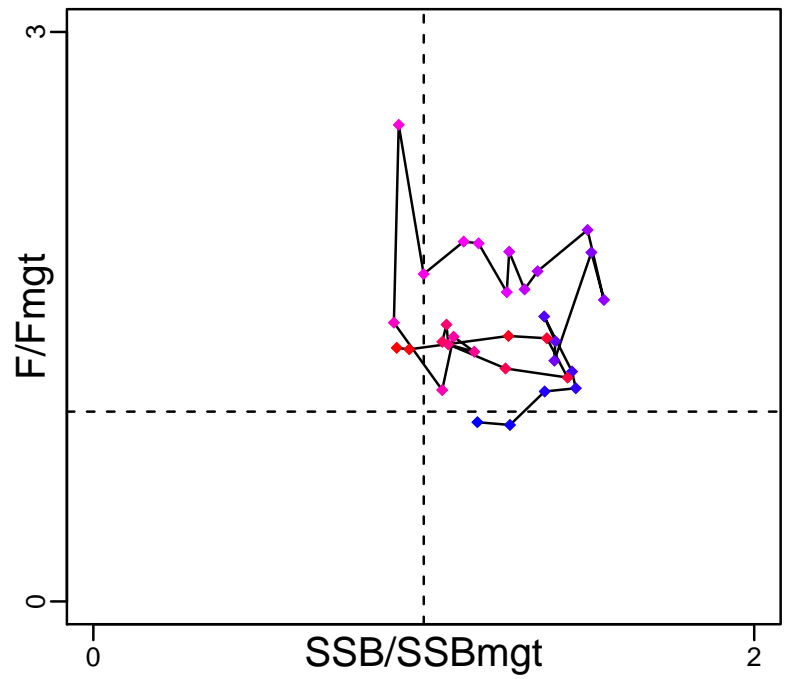
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	14,200	-	-
SSB	SSB-MT	2016	10,600	-	-
TN	-	-	-	-	-
R	R-E00	2016	21,300,000	-	2
F	F-1/yr	2016	0	-	3 to 6
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	3640		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.56		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.34		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	1.23		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	1.34		
ER/ERmgt	-	-	-		

Common sole Villab [SOLEVillab]

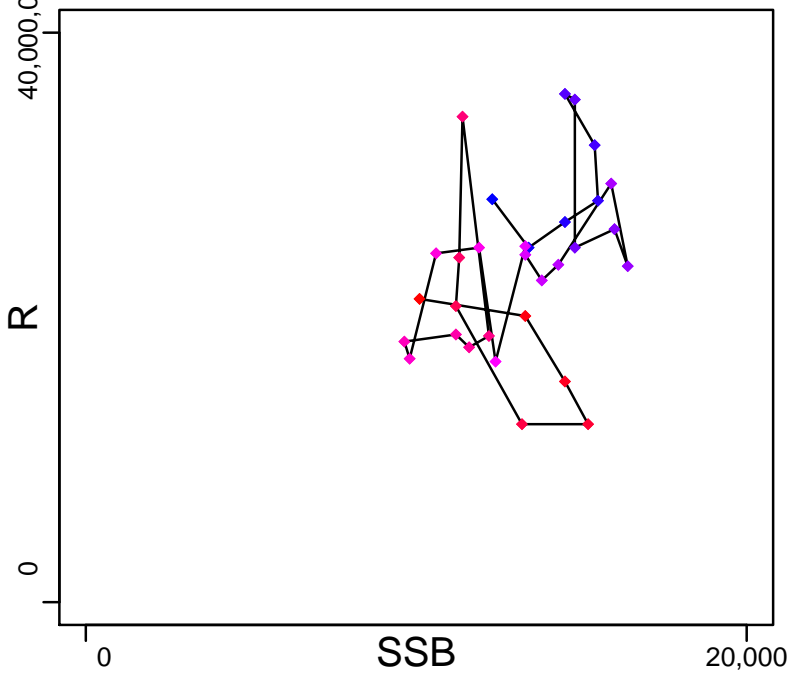
Kobe MSYpref (1982–2016–ICESIMP2016)



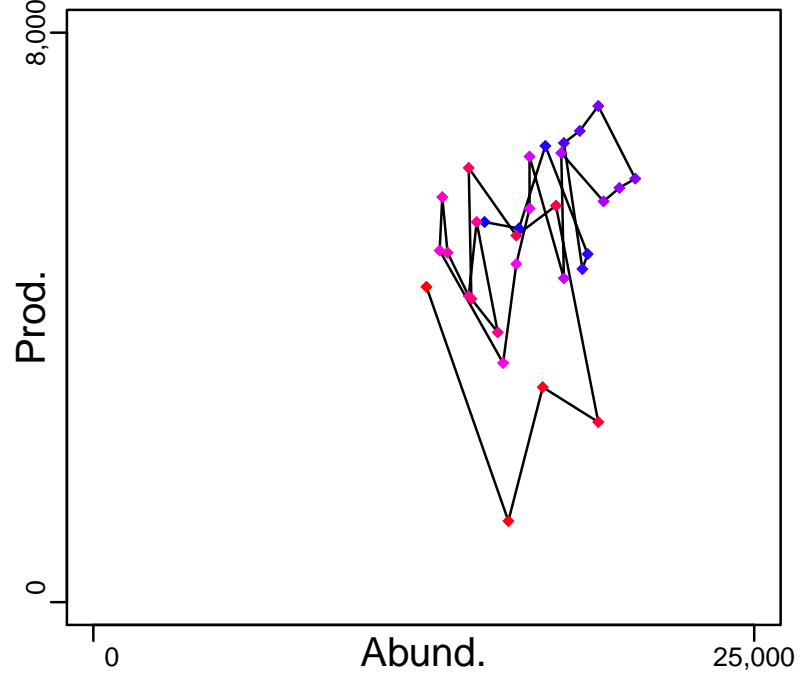
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



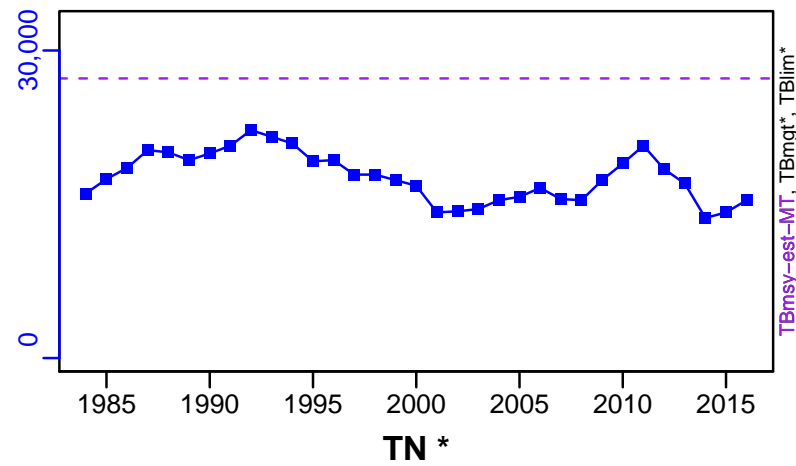
Production (1982–2016–ICESIMP2016)



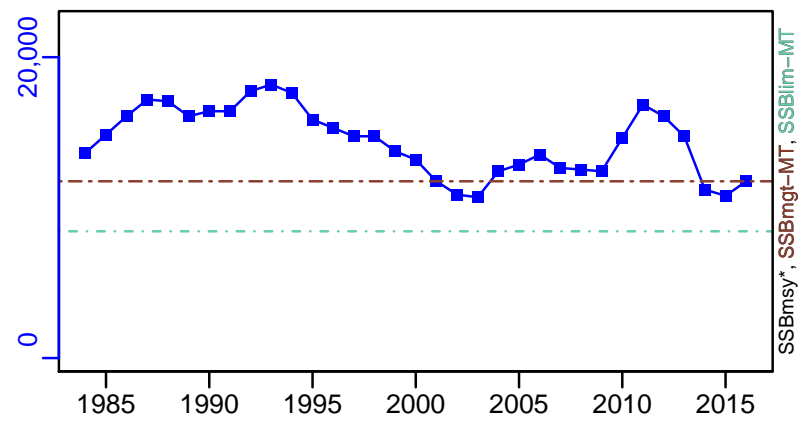
◆ Start Year ◆ End Year * No Data

Common sole Villab [SOLEVillab]

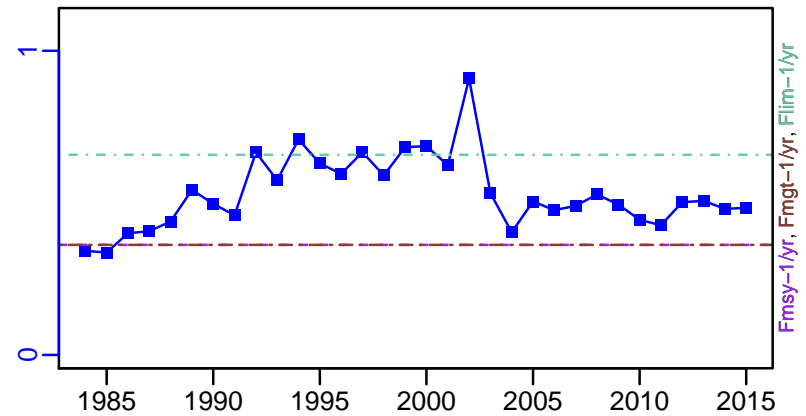
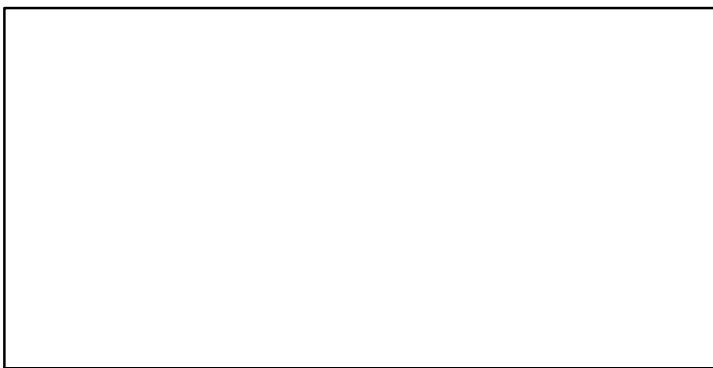
TB-MT (1982–2016–ICESIMP2016)



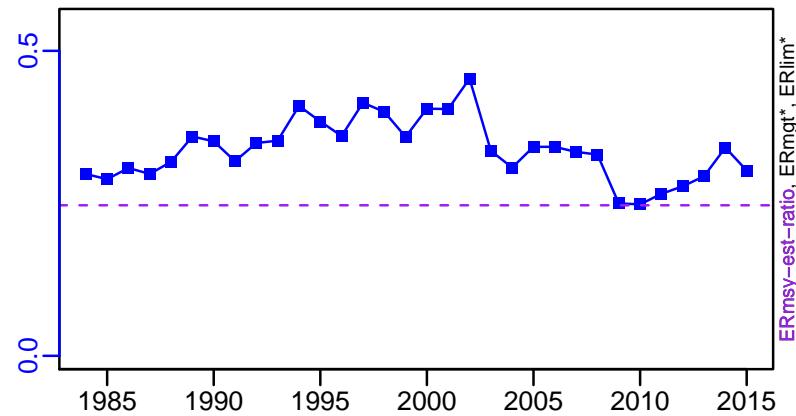
SSB-MT (1982–2016–ICESIMP2016)



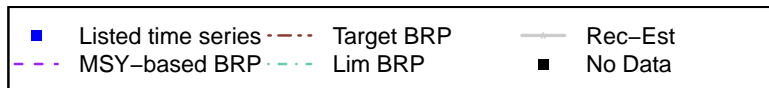
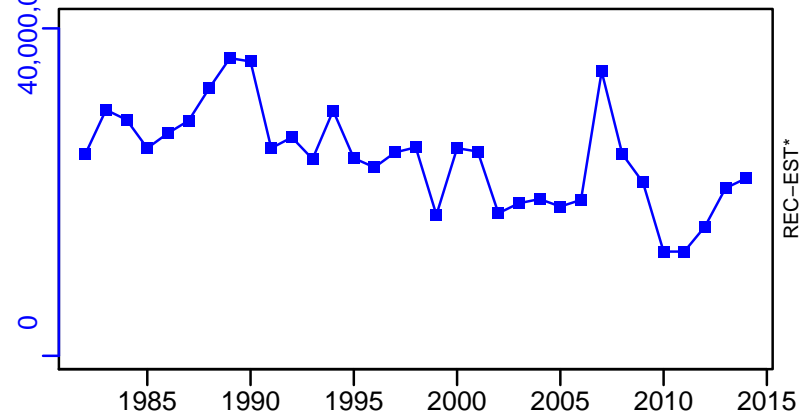
F-1/yr (1982–2016–ICESIMP2016)



ER-calc-ratio (1982–2016–ICESIMP2016)



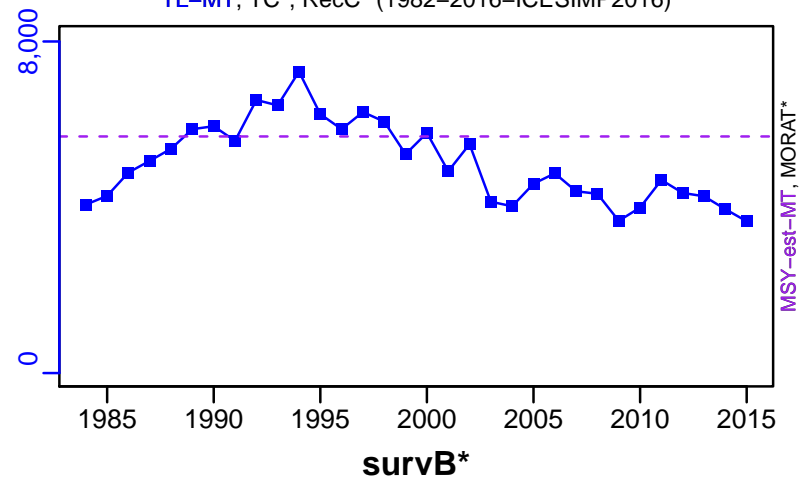
R-E00 (1982–2016–ICESIMP2016)



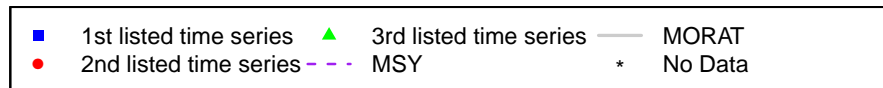
Common sole Villab [SOLEVillab]

TL-MT, TC*, RecC* (1982-2016-ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Sprat ICES Baltic Areas 22-32 [SPRAT22-32]

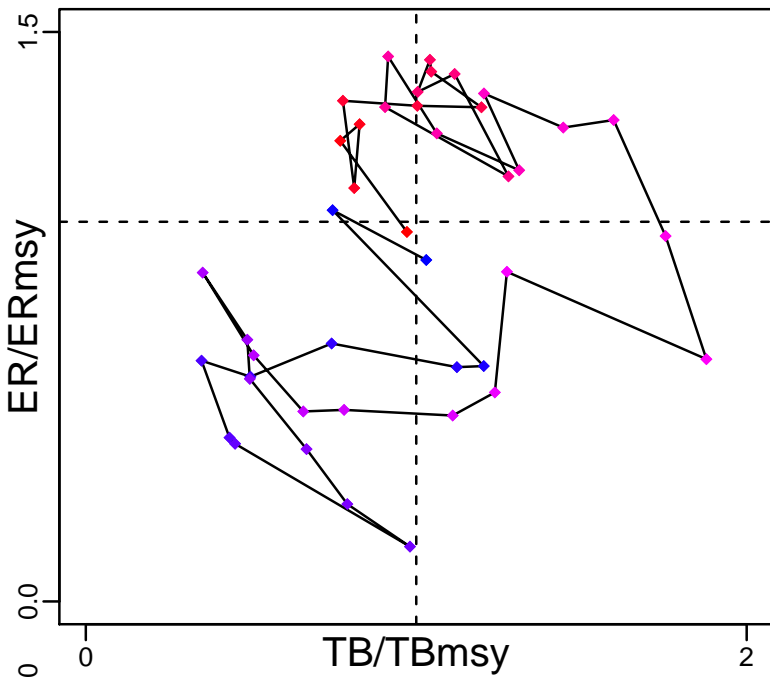
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	WGBFAS-SPRAT22-32-1973-2016-ICESIMP2016
Area	Baltic Areas 22-32
Management Authority	International Council for the Exploration of the Sea
Assessor	Baltic Fisheries Assessment Working Group
Asmts in RAM	2011, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	1,724,673
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	ERmsy-est-ratio	2016	0.15
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	570,000
Fmgt	Fmgt-1/yr	2016	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	261,165
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	410,000
Flim	Flim-1/yr	2016	0.39
ERlim	-	-	-

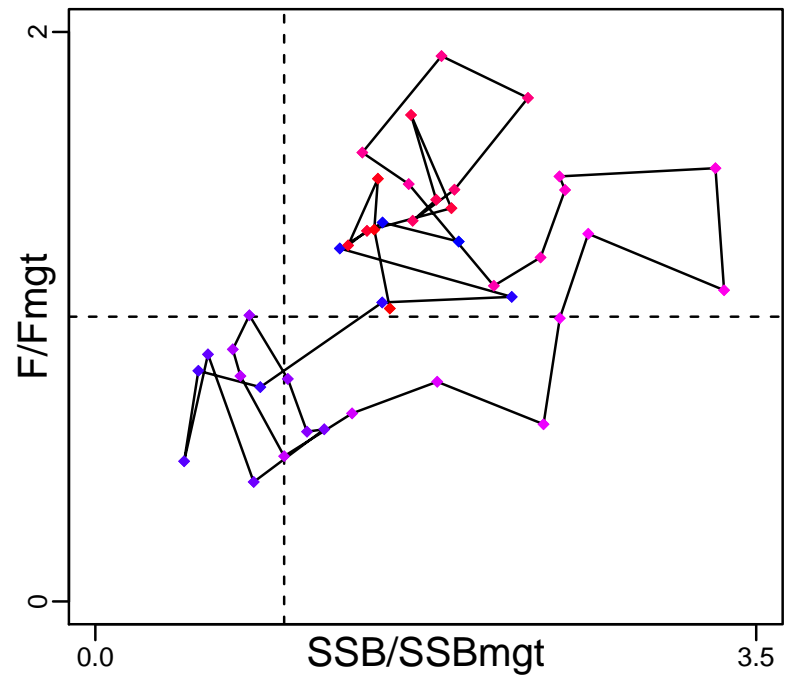
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.18		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.97		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sprat ICES Baltic Areas 22–32 [SPRAT22–32]

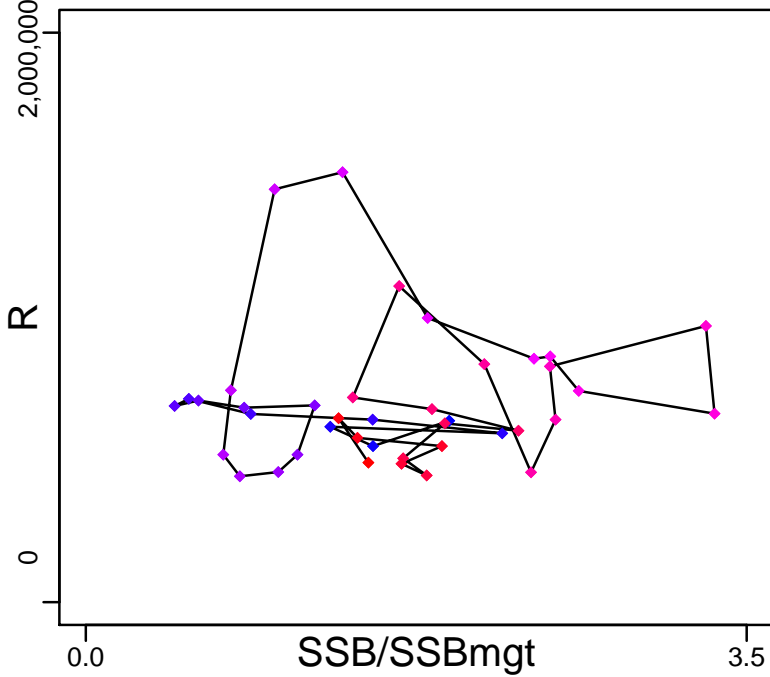
Kobe MSYpref (1973–2016–ICESIMP2016)



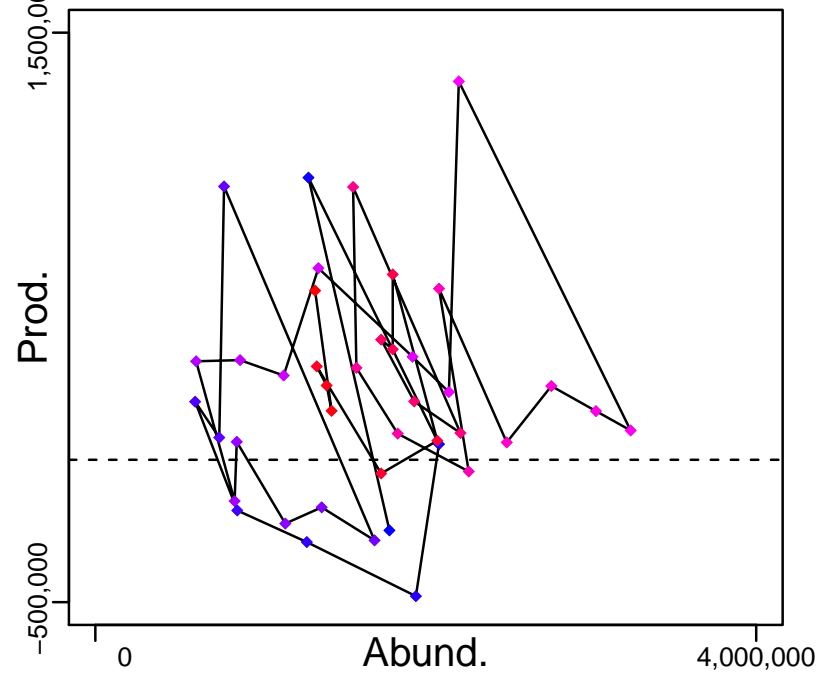
Kobe MGTpref (1973–2016–ICESIMP2016)



Spawner Recruit (1973–2016–ICESIMP2016)



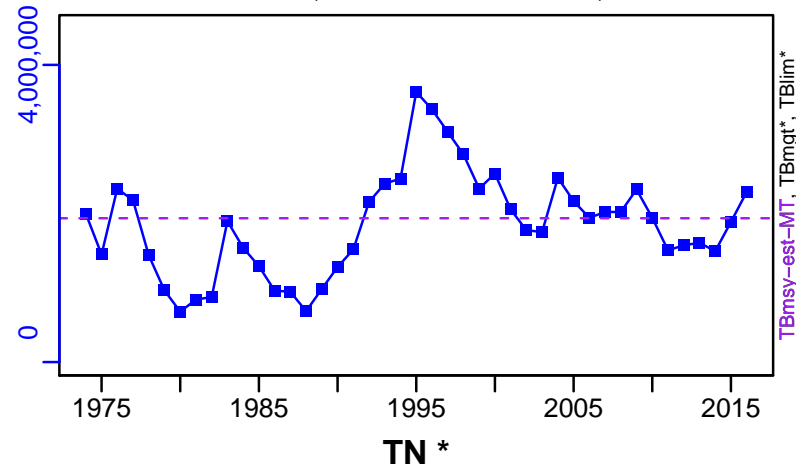
Production (1973–2016–ICESIMP2016)



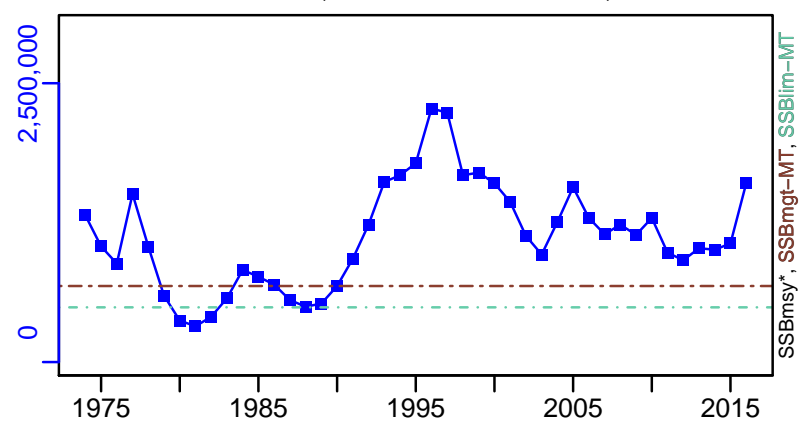
◆ Start Year ◆ End Year * No Data

Sprat ICES Baltic Areas 22–32 [SPRAT22–32]

TB–MT (1973–2016–ICESIMP2016)

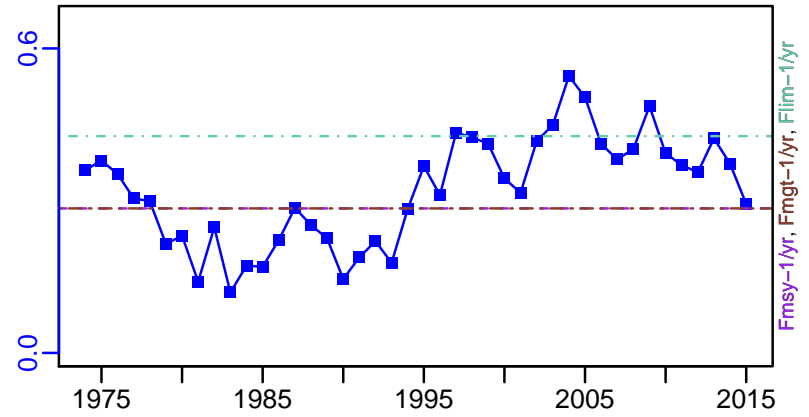


SSB–MT (1973–2016–ICESIMP2016)



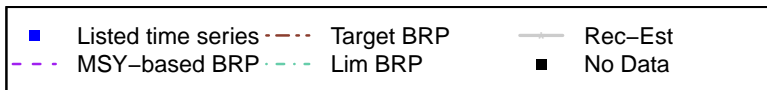
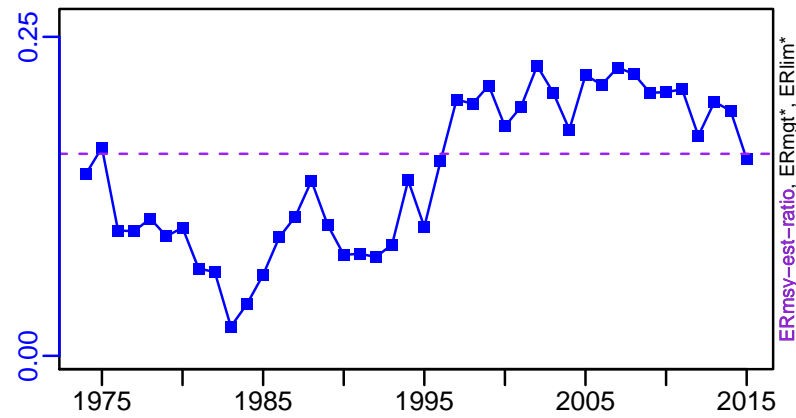
TN *

F–1/yr (1973–2016–ICESIMP2016)



Recruits*

ER–calc–ratio (1973–2016–ICESIMP2016)



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

* No Data

Sprat Kattegat and Skagerrak [SPRATIIIa]

Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATIIIa-1974-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	13,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

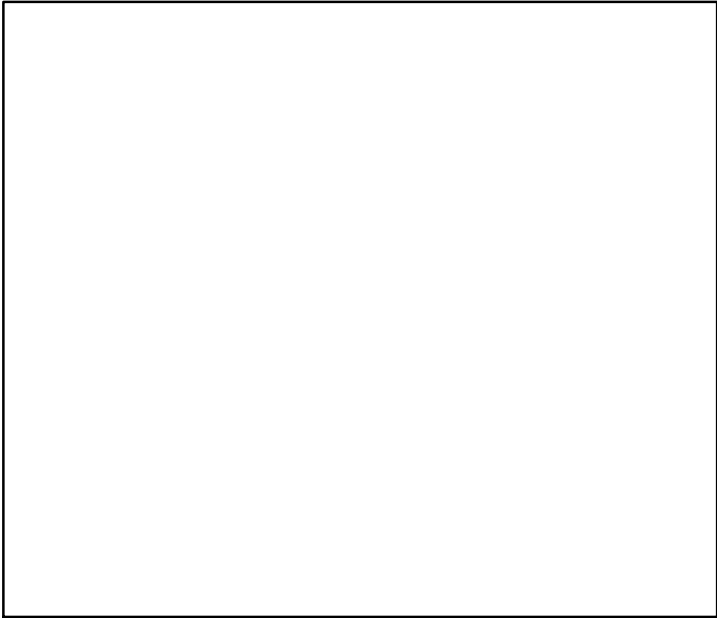
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Sprat Kattegat and Skagerrak [SPRATIIIa]

TB*



SSB*



TN *



F*



ER*

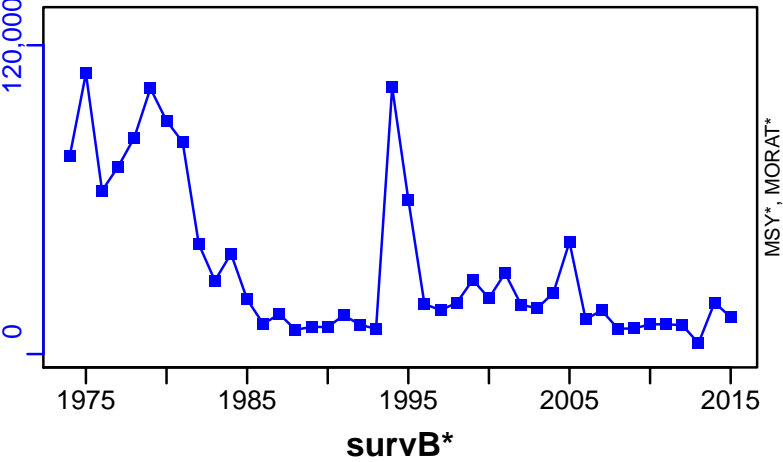


Recruits*



Sprat Kattegat and Skagerrak [SPRATIIIa]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Sprat North Sea [SPRATNS]

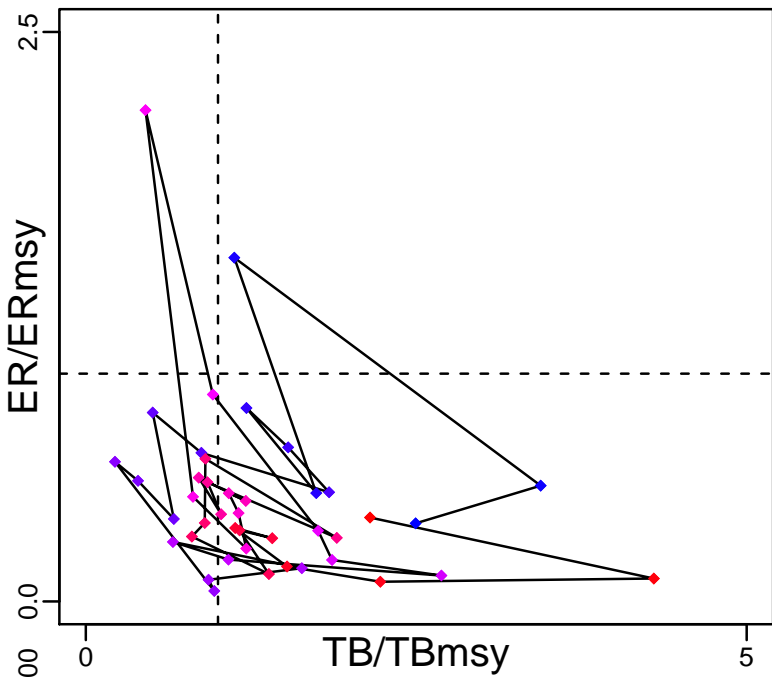
Metadata	
Scientific Name	Sprattus sprattus
Current Assess ID	HAWG-SPRATNS-1974-2016-ICESIMP2016
Area	North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Herring Assessment Working Group for the Area South of 62N
Asmts in RAM	2013, 2014, 2015, 2016, 2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	1,190,236
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2015	0.7
ERmsy	ERmsy-est-ratio	2016	0.31
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	142,000
Fmgt	Fmgt-1/yr	2015	0.7
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	366,566
M	M-1/yr	2007	0.75
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	90,000
Flim	-	-	-
ERlim	-	-	-

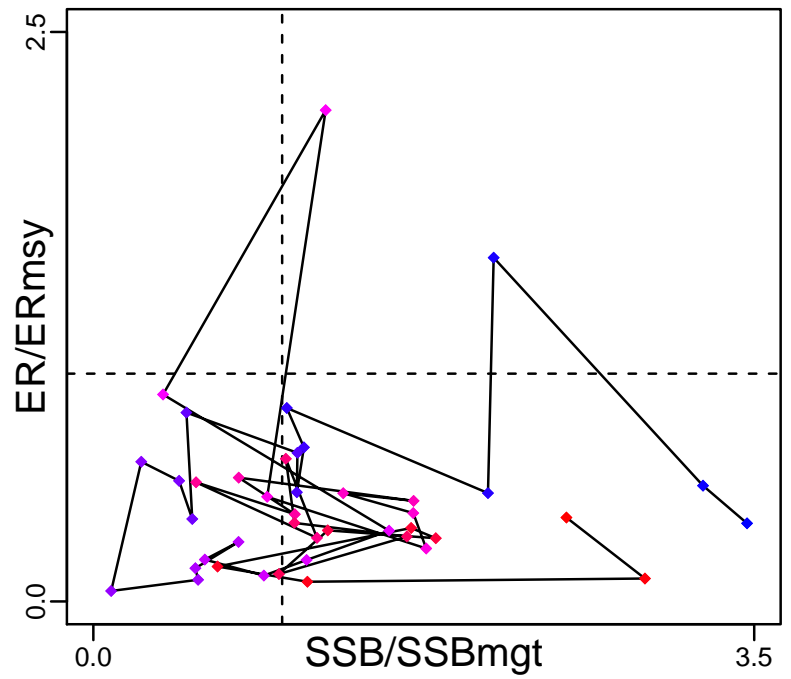
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	2,560,000	-	-
SSB	SSB-MT	2016	209,000	-	-
TN	TN-relative	2007	72,900	-	-
R	R-E00	2016	1.53×10^{11}	-	0
F	F-1/yr	2016	1	-	1 to 2
ER	ER-calc-ratio	2016	0	-	-
TC	-	-	-		
TL	TL-MT	2016	290,000		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	2.15		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.92		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.37		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.47		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.92		
ER/ERmgt	-	-	-		

Sprat North Sea [SPRATNS]

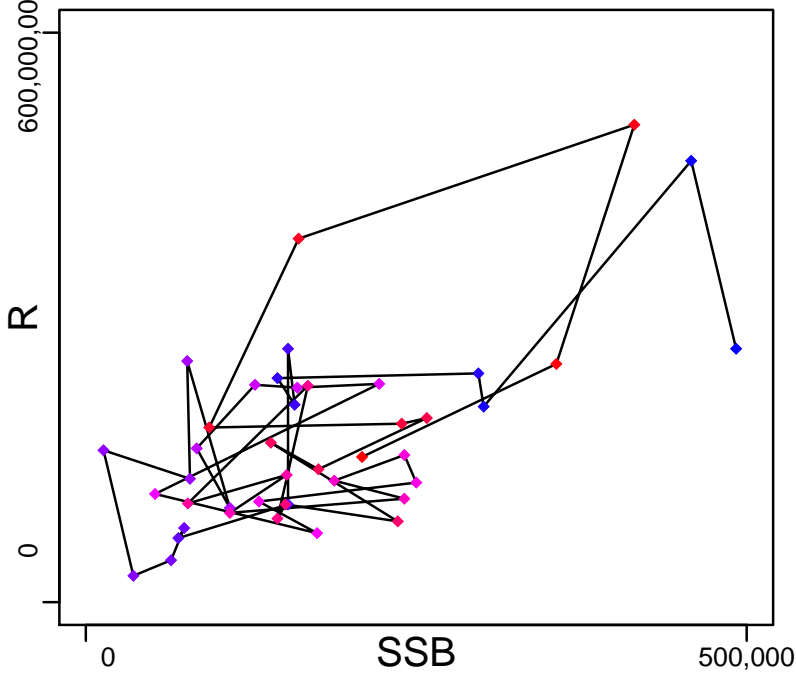
Kobe MSYpref (1974–2016–ICESIMP2016)



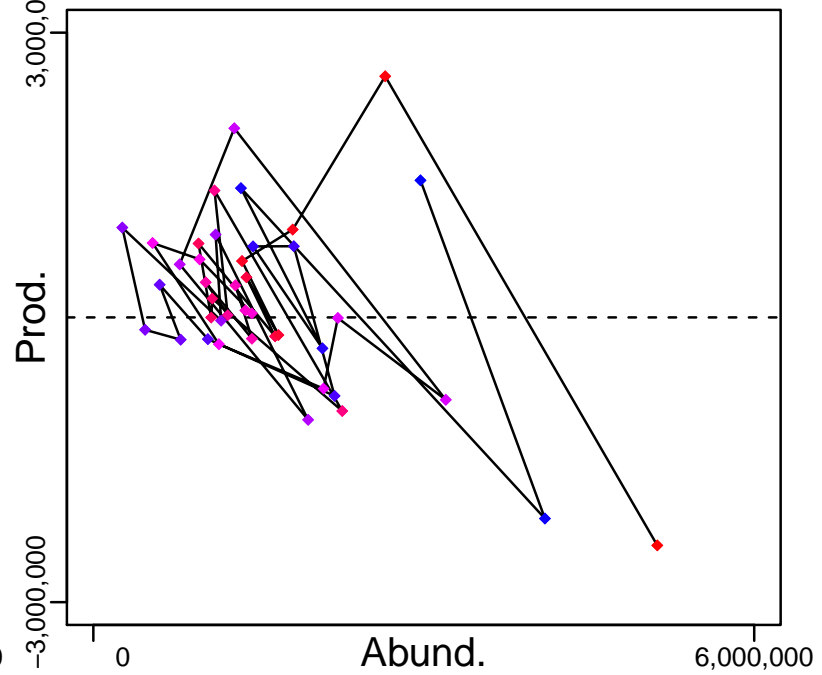
Kobe MGTpref (1974–2016–ICESIMP2016)



Spawner Recruit (1974–2016–ICESIMP2016)

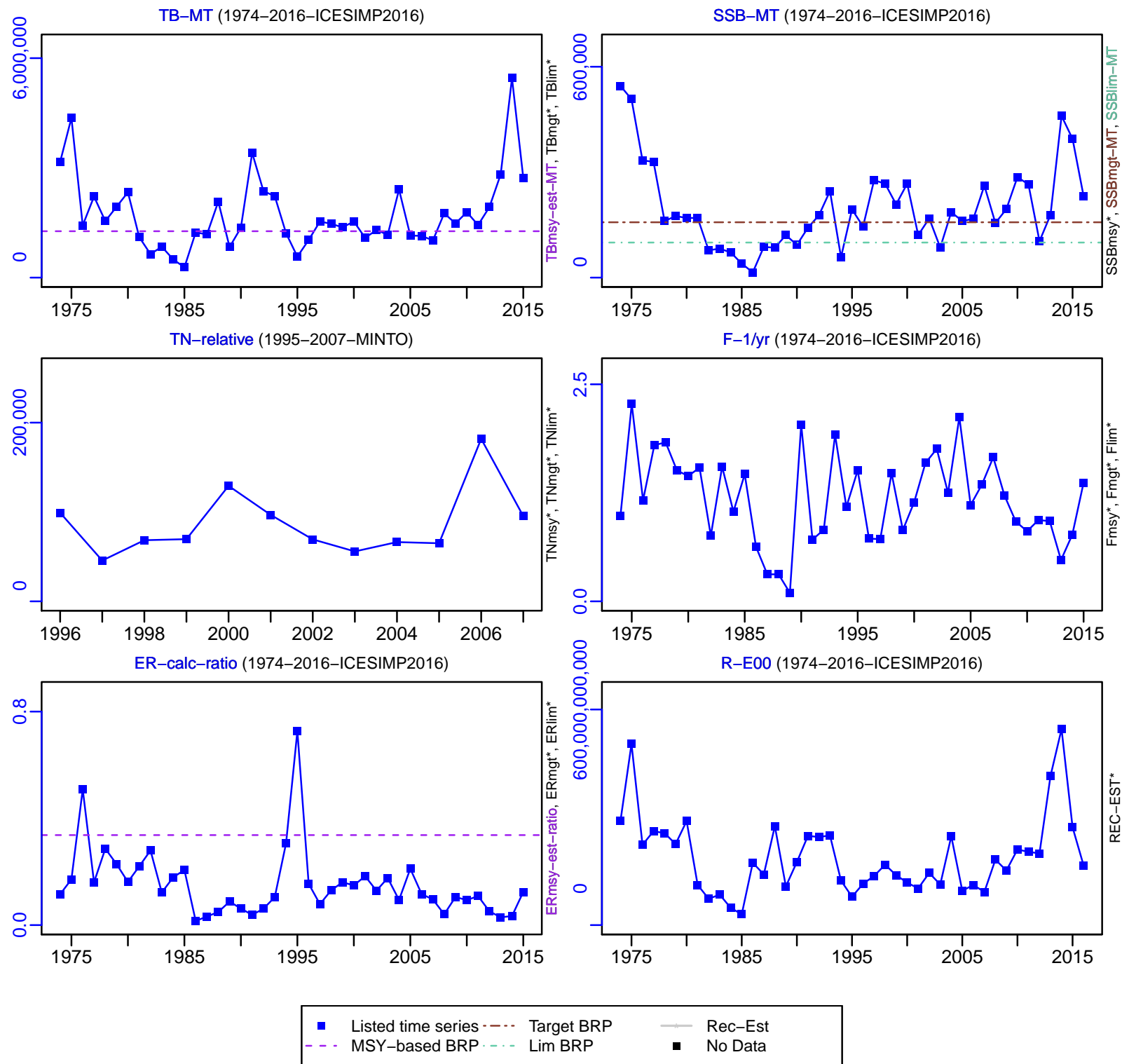


Production (1974–2016–ICESIMP2016)



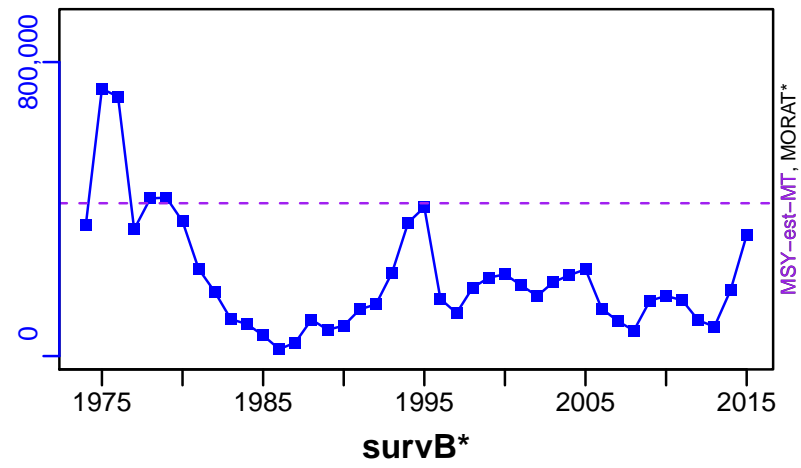
◆ Start Year ◆ End Year * No Data

Sprat North Sea [SPRATNS]

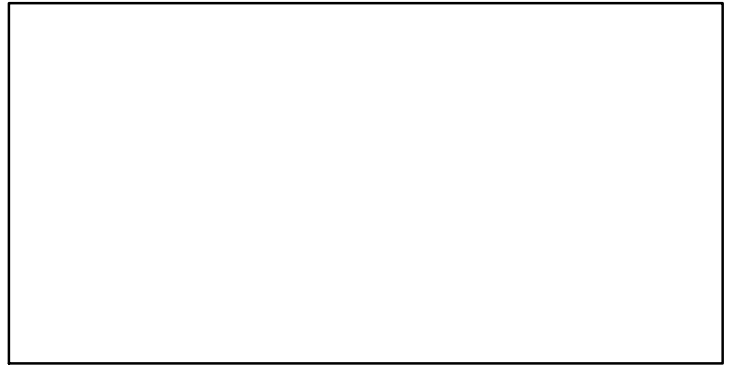


Sprat North Sea [SPRATNS]

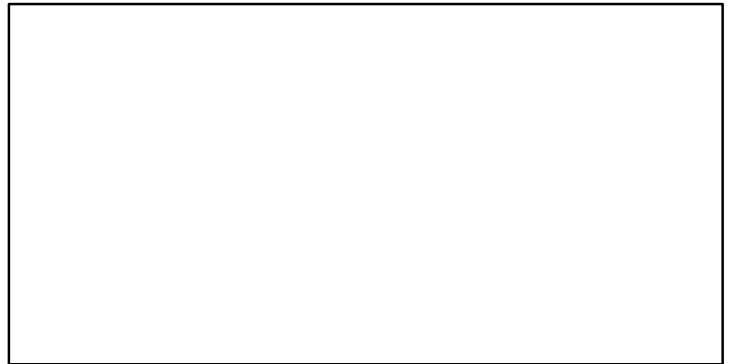
TL-MT, TC*, RecC* (1974–2016–ICESIMP2016)



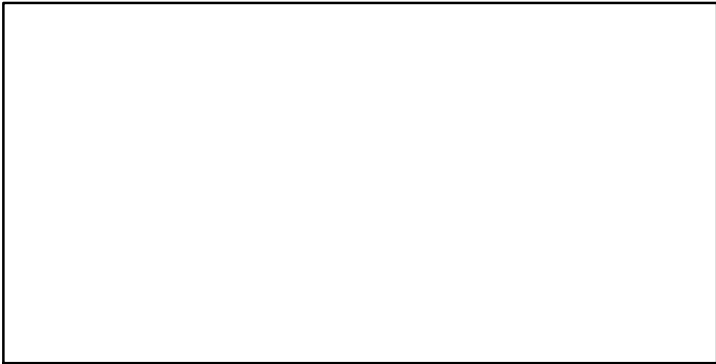
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



■ 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-1985-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

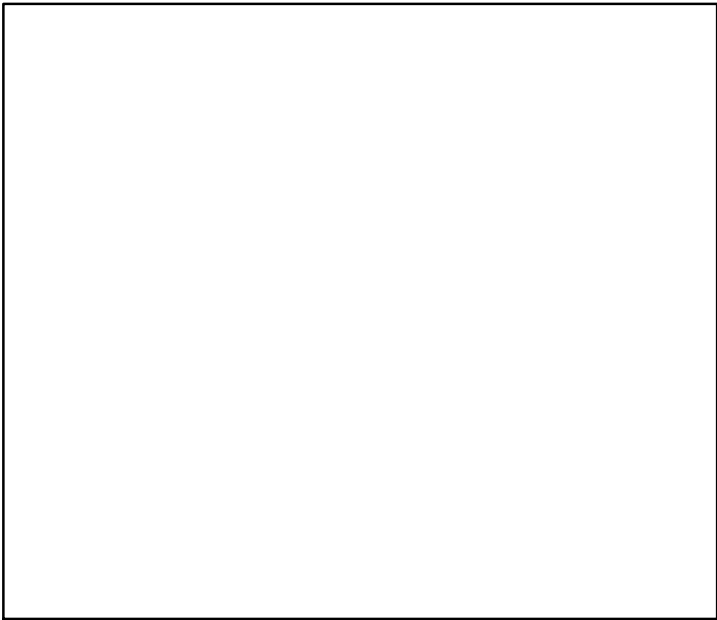
Kobe MSY*



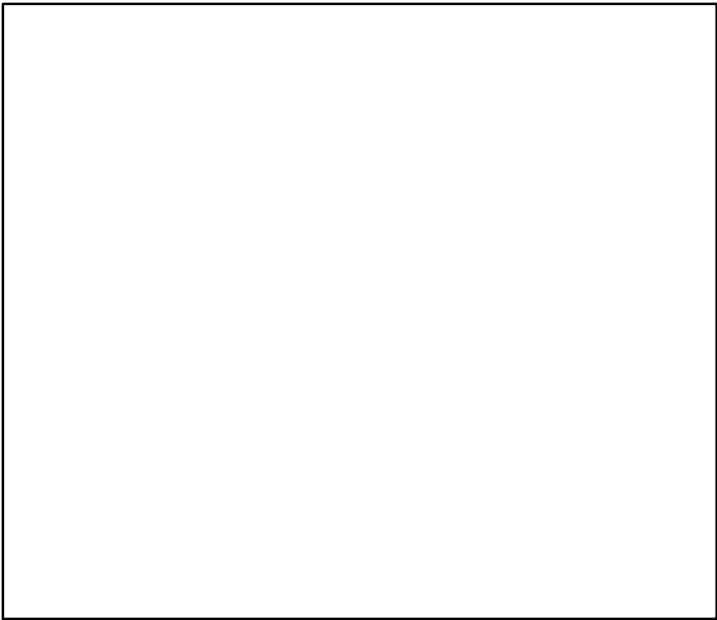
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

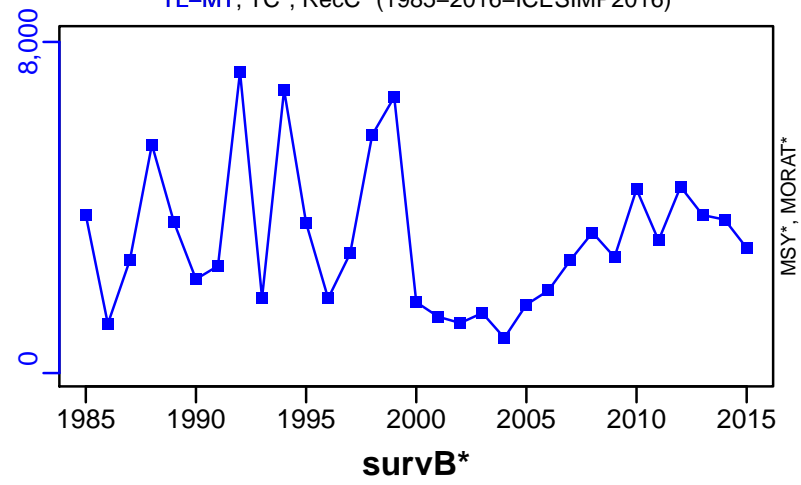


Recruits*



Sprat Vilde [SPRATVilde]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



■ 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-1985-2015-ICESIMP2016
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	2015

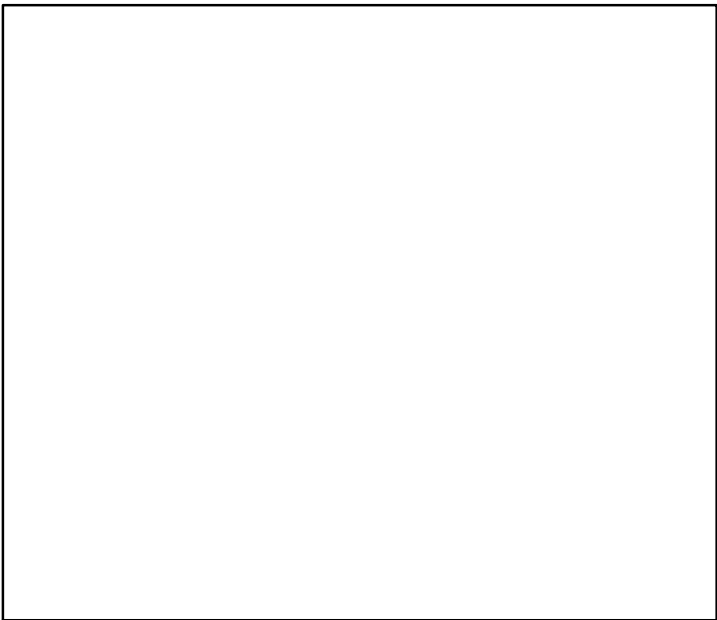
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	3000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

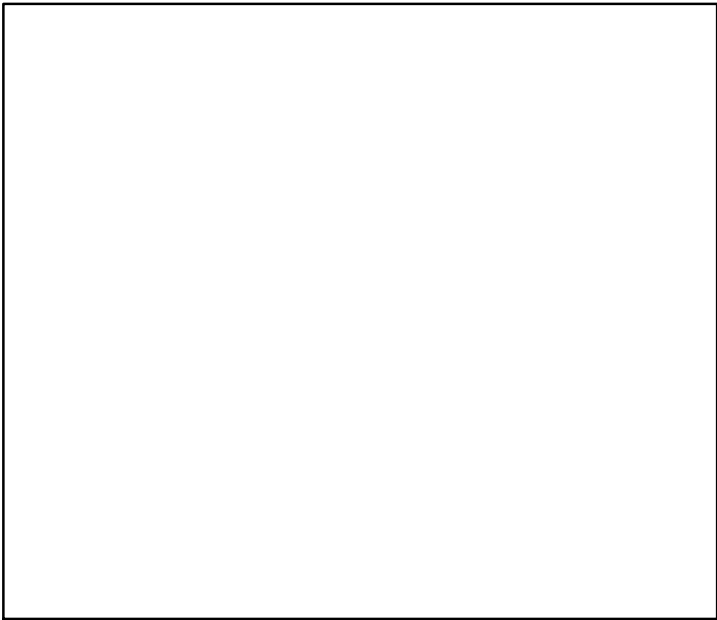
Kobe MSY*



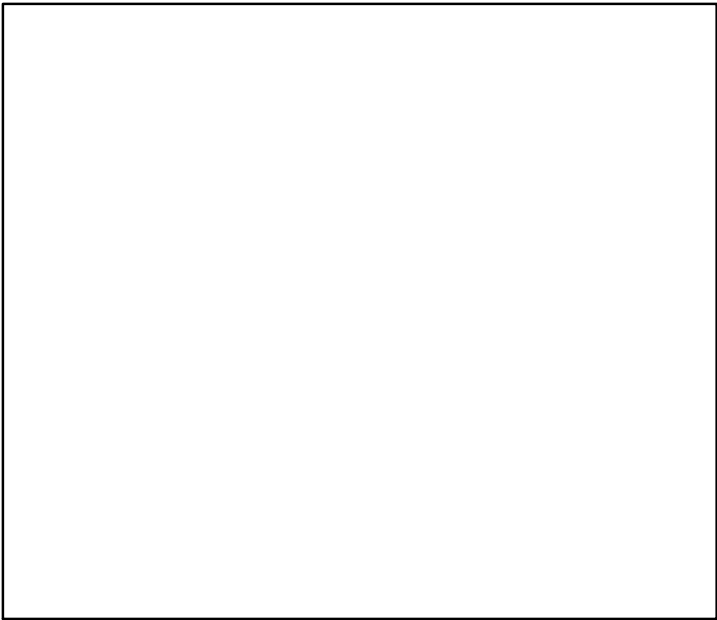
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- - -

MSY

—

MORAT

*

No Data

Spurdog Northeast Atlantic [SPURDNEATL]

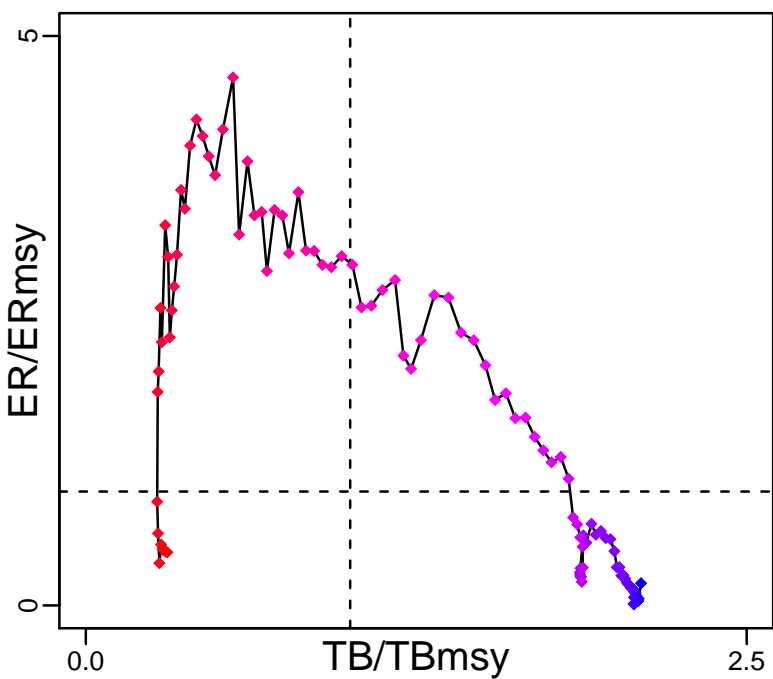
Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	WGEF-SPURDNEATL-1905-2014-ICESIMP2016
Area	Northeast Atlantic
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Elasmobranch Fishes
Asmts in RAM	2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2014	788,704
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.03
TBmgt	TBmgt-MT	2014	963,700
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.03
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2014	22,872
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

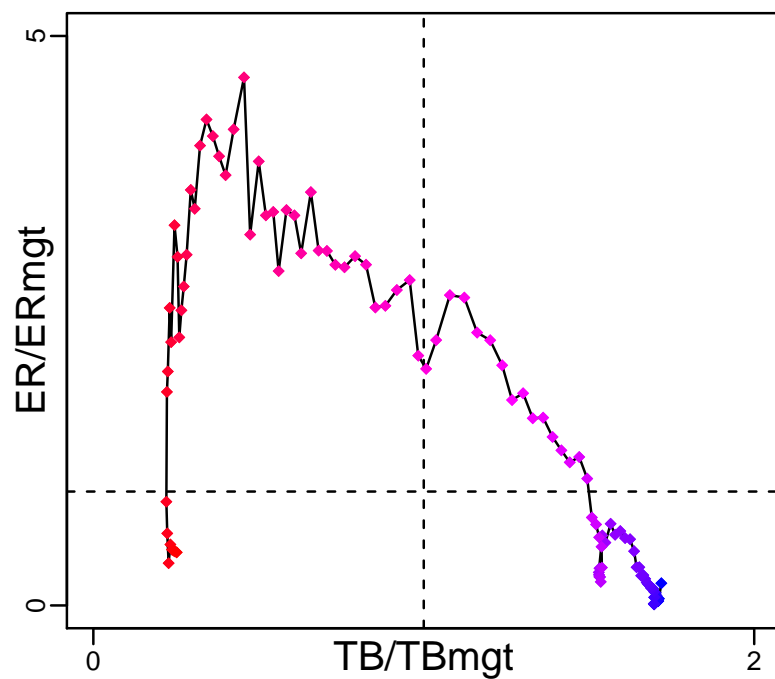
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	248,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2014	102,000	-	0
F	-	-	-	-	-
ER	ER-ratio	2014	0	-	-
TC	TC-MT	2014	2380		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.31		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2014	0.47		
TB/TBmgt	TB-MT/TBmgt-MT	2014	0.26		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spurdog Northeast Atlantic [SPURDNEATL]

Kobe MSYpref (1905–2014–ICESIMP2016)



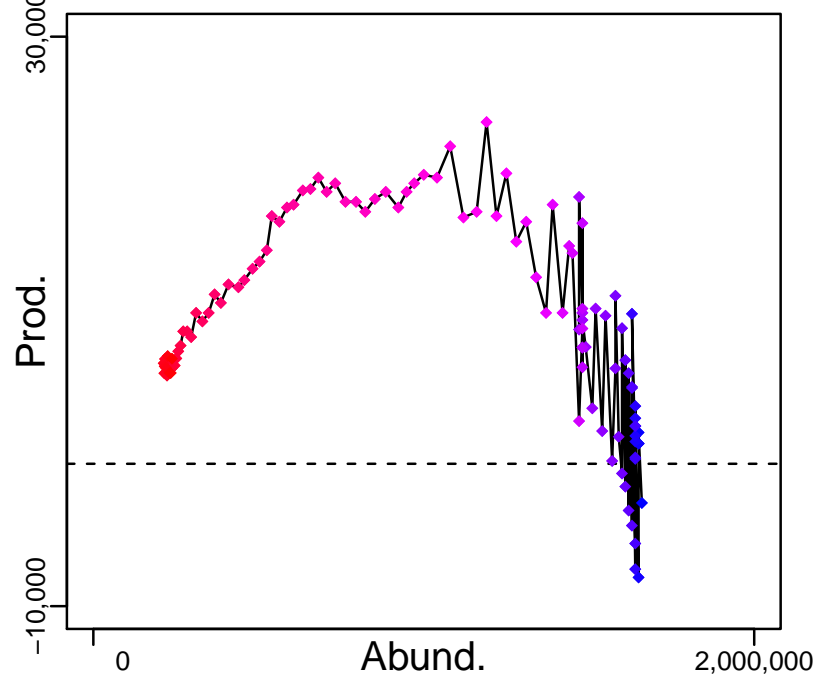
Kobe MGTpref (1905–2014–ICESIMP2016)



Spawner Recruit*



Production (1905–2014–ICESIMP2016)

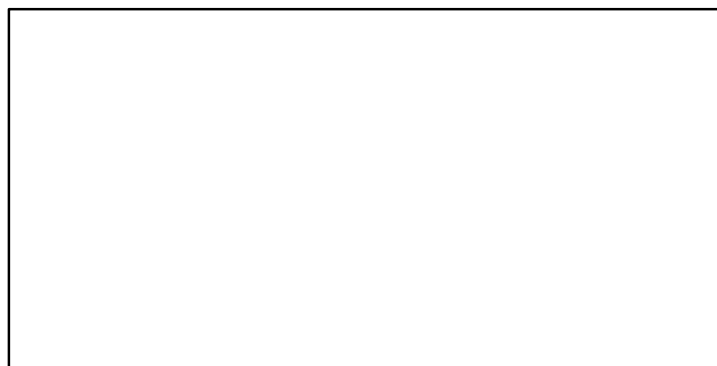
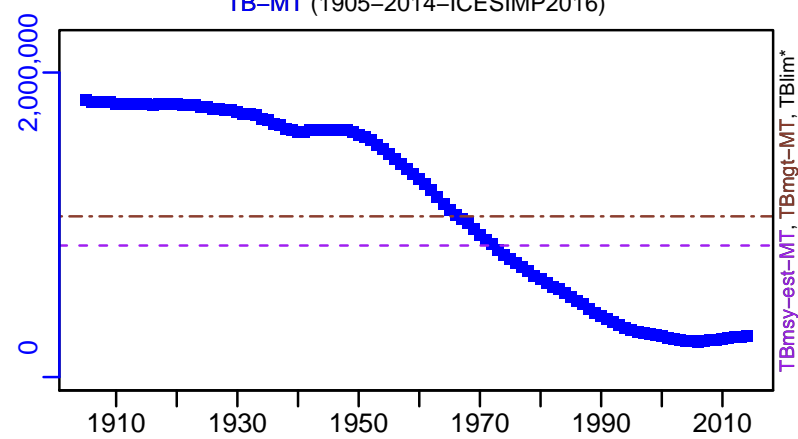


◆ Start Year ◆ End Year * No Data

Spurdog Northeast Atlantic [SPURDNEATL]

TB-MT (1905–2014–ICESIMP2016)

SSB*



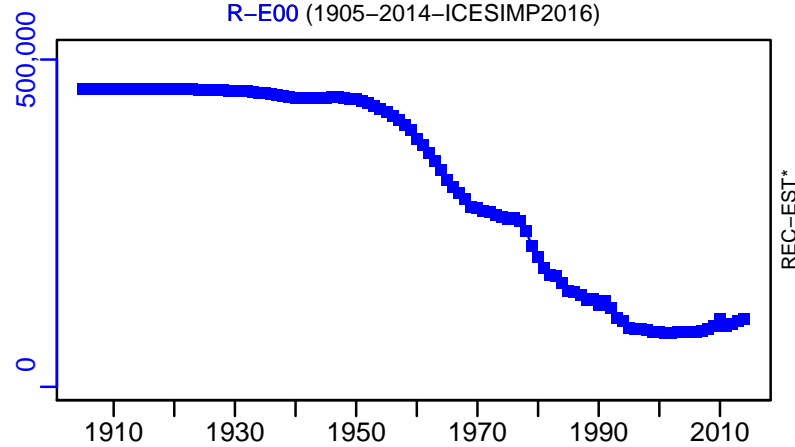
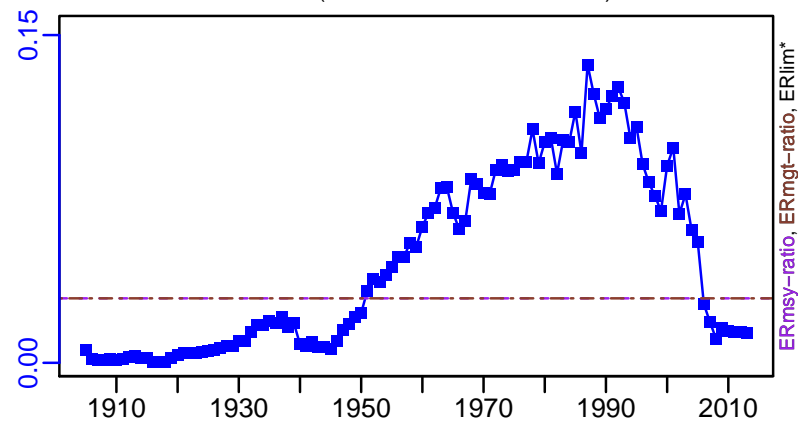
TN *

F*



ER-ratio (1905–2014–ICESIMP2016)

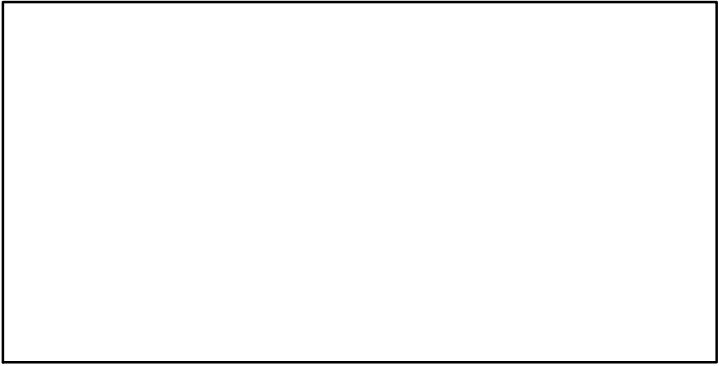
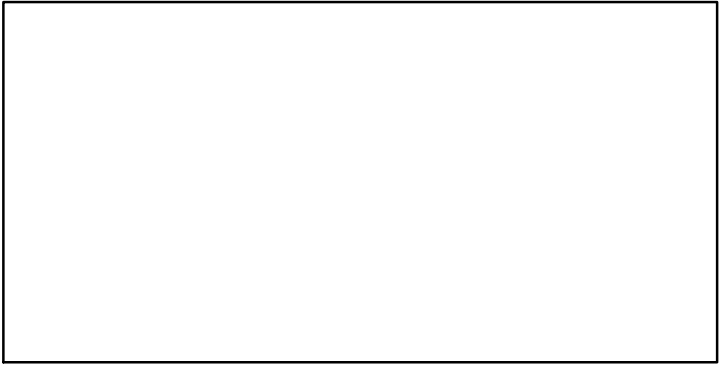
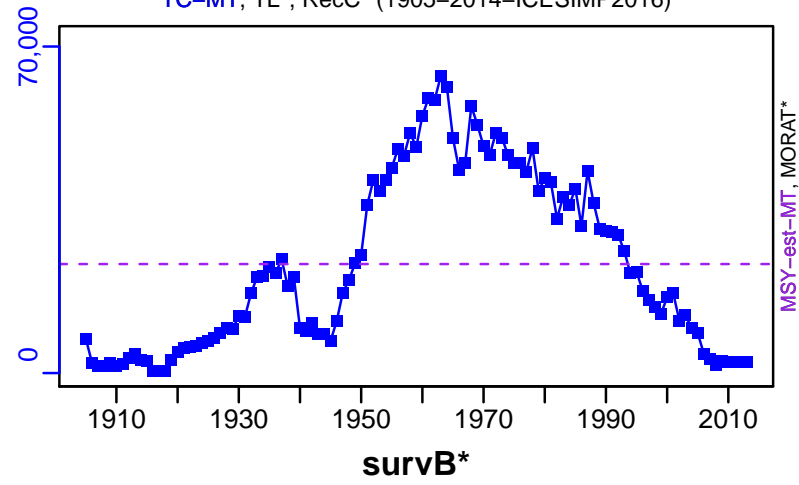
R-E00 (1905–2014–ICESIMP2016)



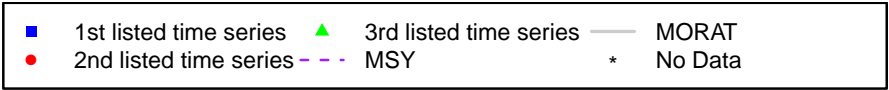
Spurdog Northeast Atlantic [SPURDNEATL]

TC-MT, TL*, RecC* (1905–2014–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



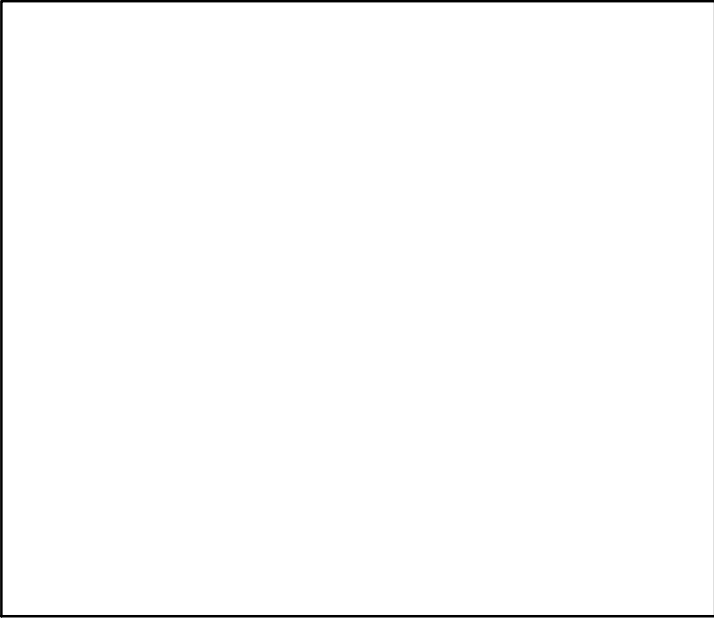
Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGBFAS-TUR2232-1965-2016-ICESIMP2016
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

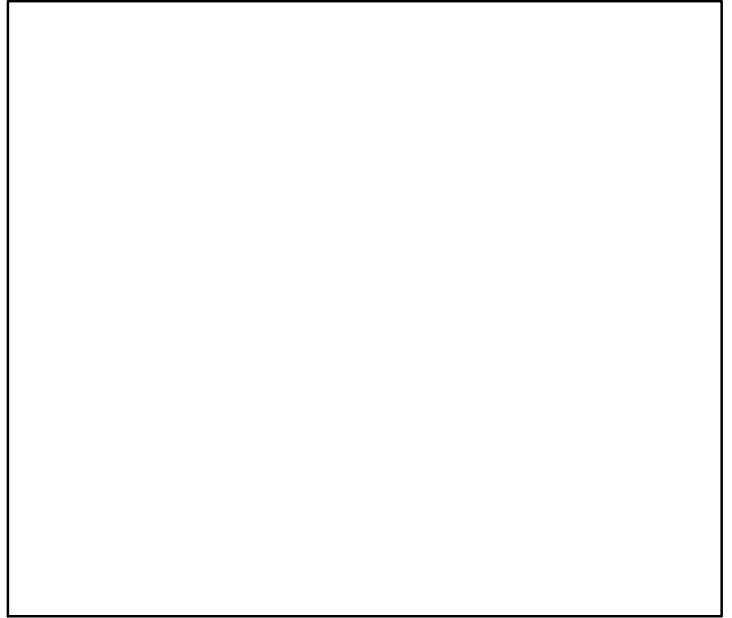
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	233		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

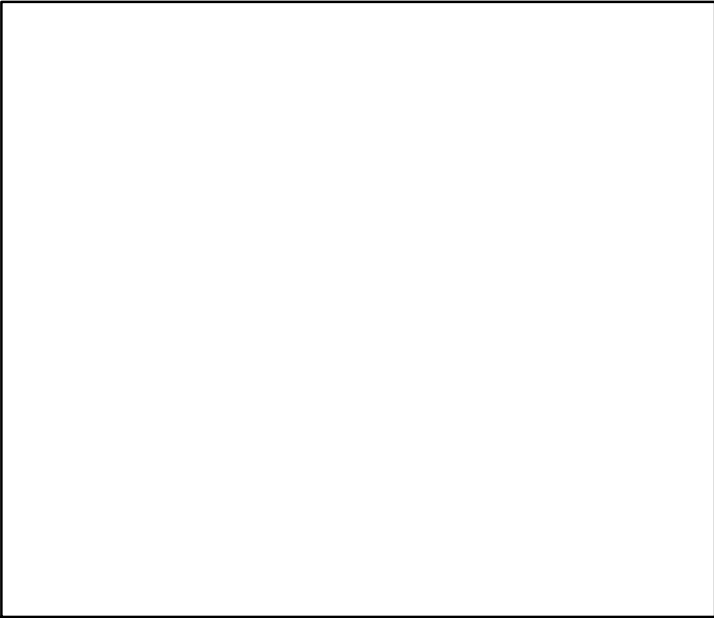
Kobe MSY*



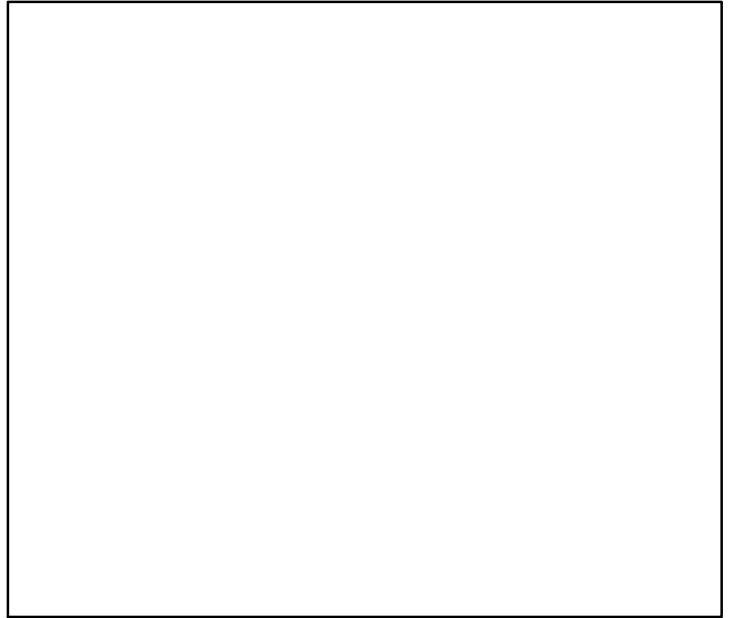
Kobe MGT*



Spawner Recruit*



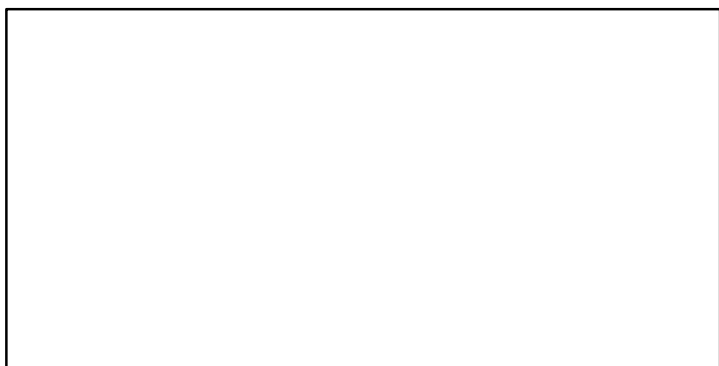
Production*



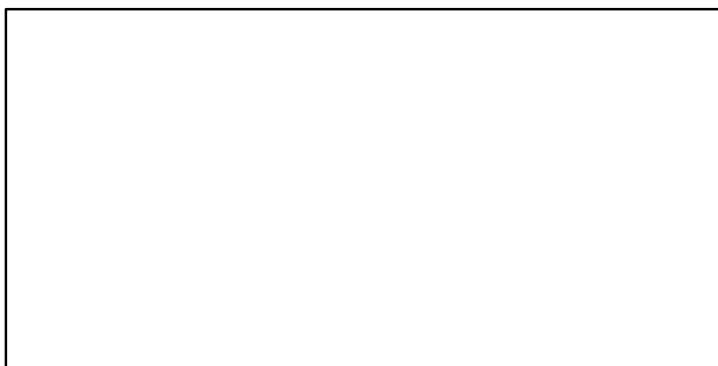
◆ Start Year ◆ End Year * No Data

Turbot Baltic Areas 22–32 [TUR2232]

TB*



SSB*



TN *



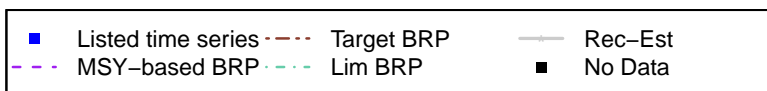
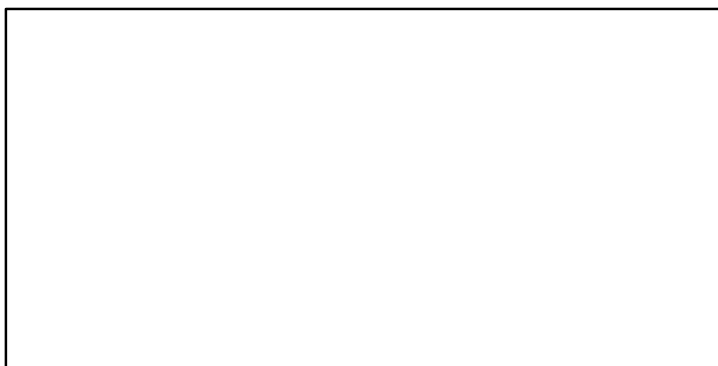
F*



ER*



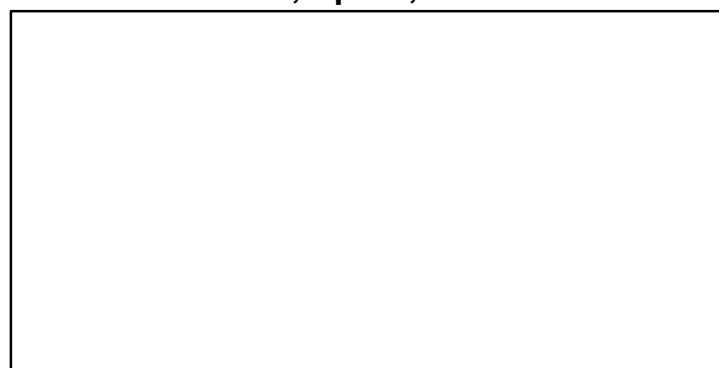
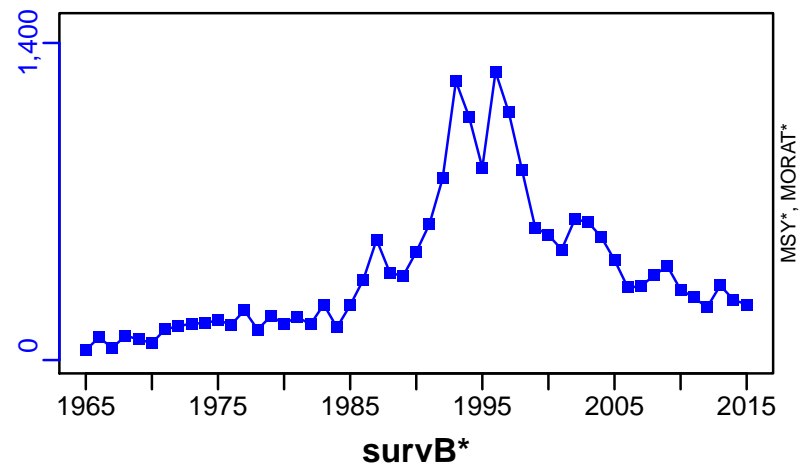
Recruits*



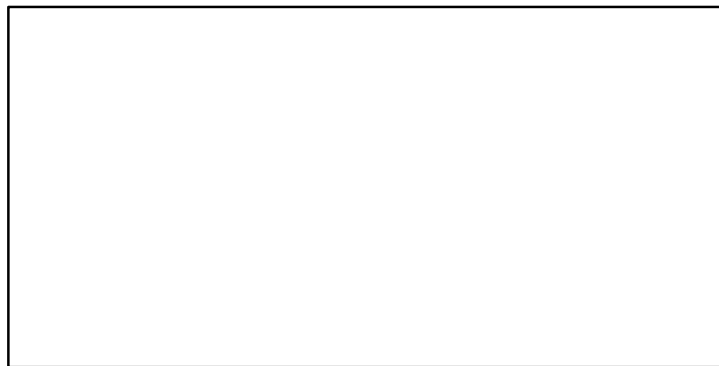
Turbot Baltic Areas 22–32 [TUR2232]

TL–MT, TC*, RecC* (1965–2016–ICESIMP2016)

TAC*, Cpair*, Cadv*



EFFORT*



Turbot North Sea [TURIV]

Metadata	
Scientific Name	Scophthalmus maximus
Current Assess ID	WGNSSK-TURIV-1974-2015-ICESIMP2016
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

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	2015	0	-	-
TN	-	-	-	-	-
R	R-relative	2015	1	-	1
F	F-relative	2015	2	-	2 to 6
ER	-	-	-	-	-
TC	TC-MT	2015	2830		
TL	TL-MT	2015	2830		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

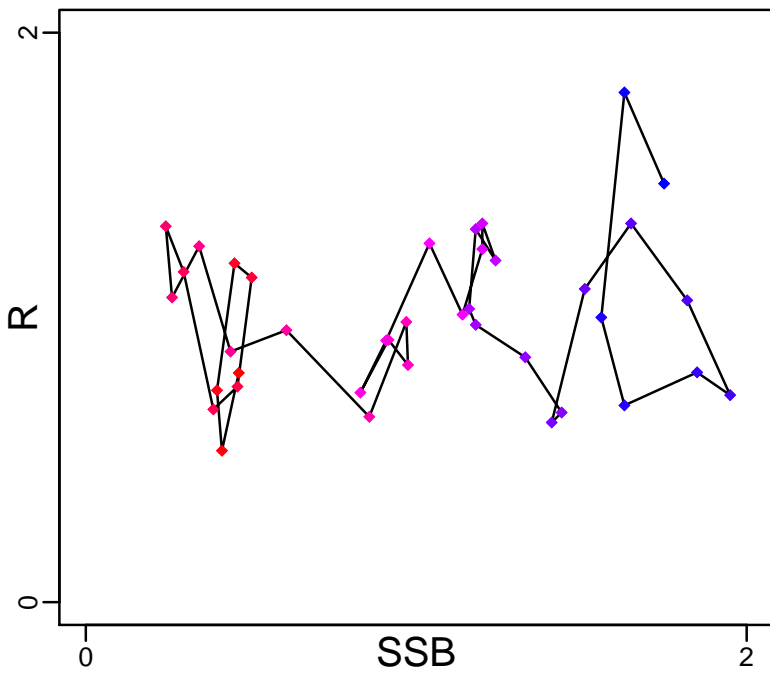
Kobe MSY*



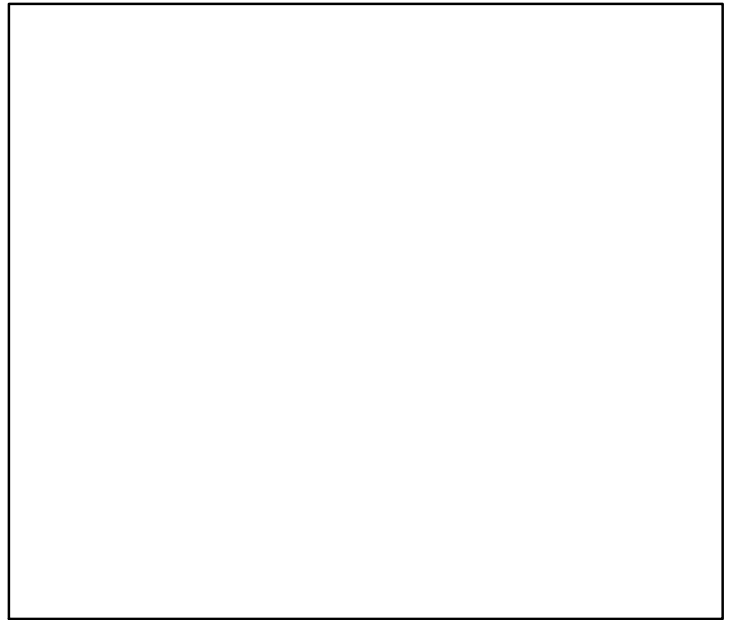
Kobe MGT*



Spawner Recruit (1974–2015–ICESIMP2016)



Production*



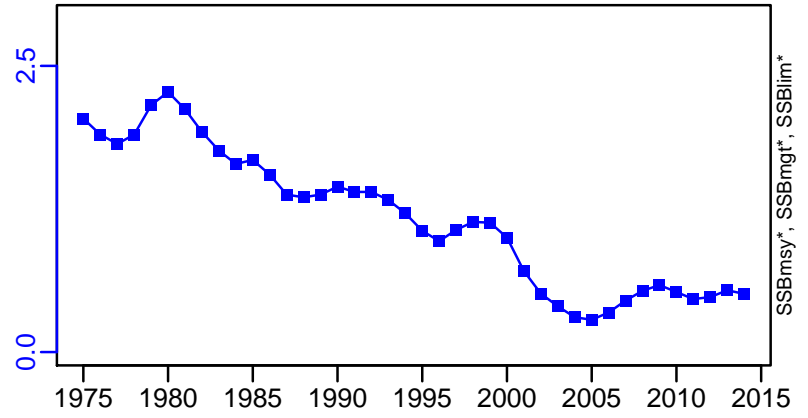
◆ Start Year ◆ End Year * No Data

Turbot North Sea [TURIV]

TB*



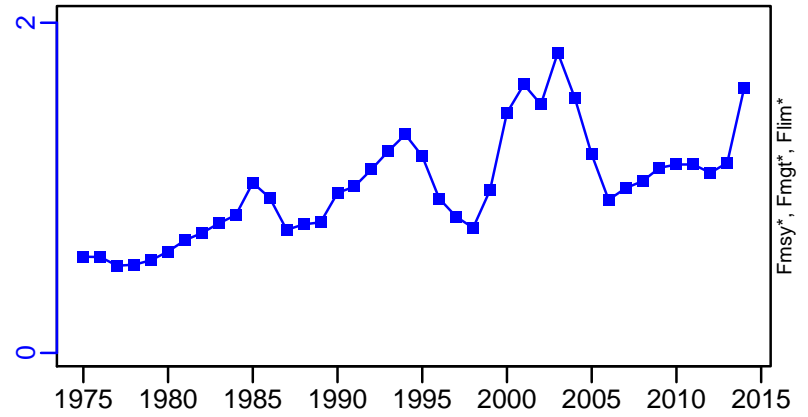
SSB-relative (1974–2015–ICESIMP2016)



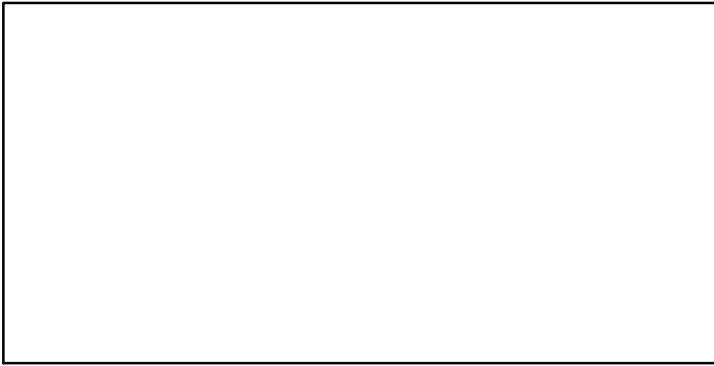
TN *



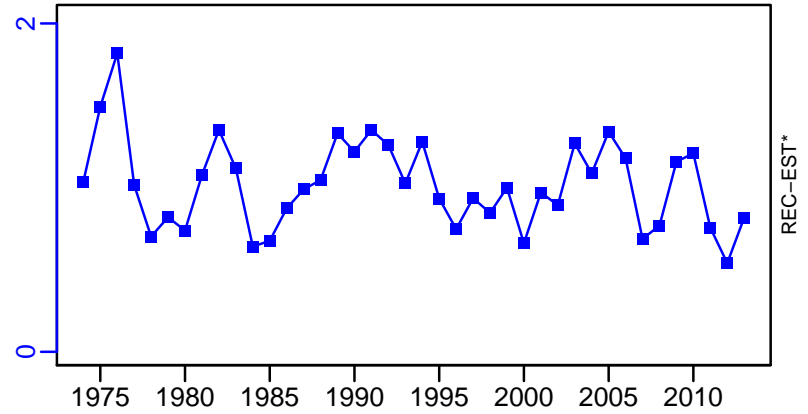
F-relative (1974–2015–ICESIMP2016)



ER*

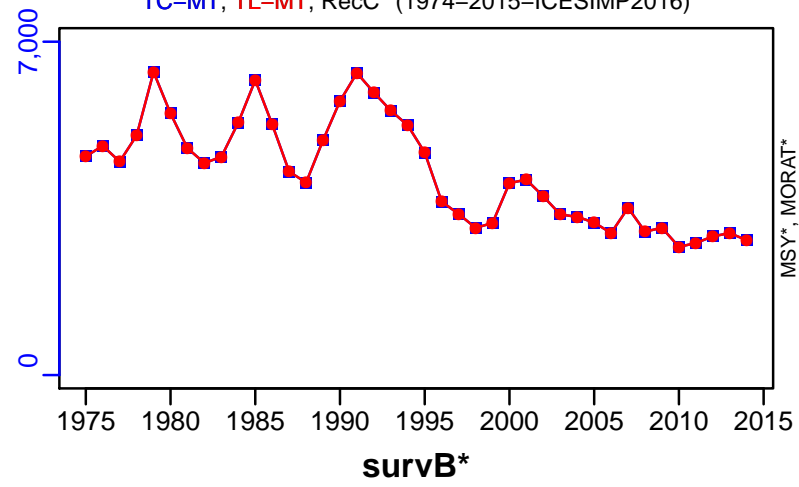


R-relative (1974–2015–ICESIMP2016)



Turbot North Sea [TURIV]

TC-MT, TL-MT, RecC* (1974–2015–ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

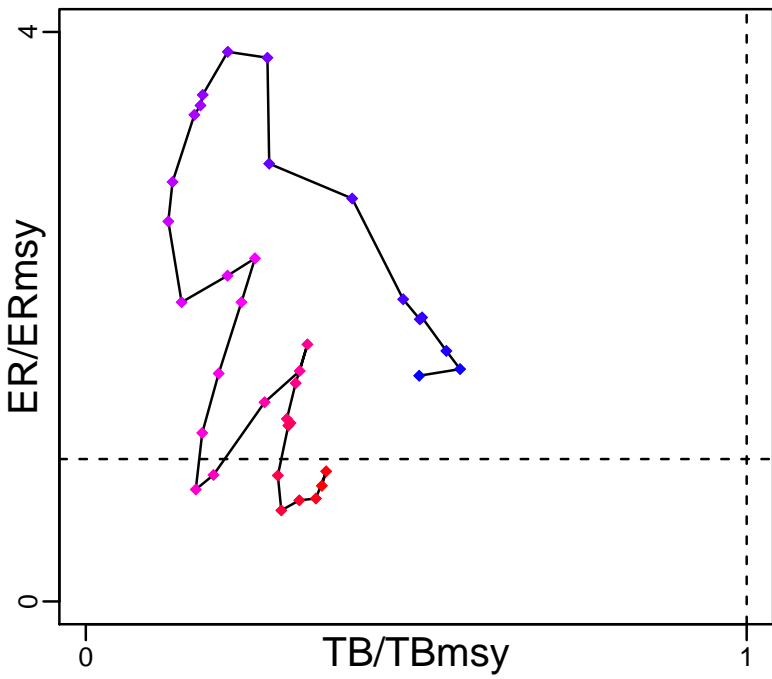
Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVIIIc-IXa-1980-2016-ICESIMP2016
Area	VIIIc-IXa
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
Asmts in RAM	2014, 2015, 2016, 2013

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

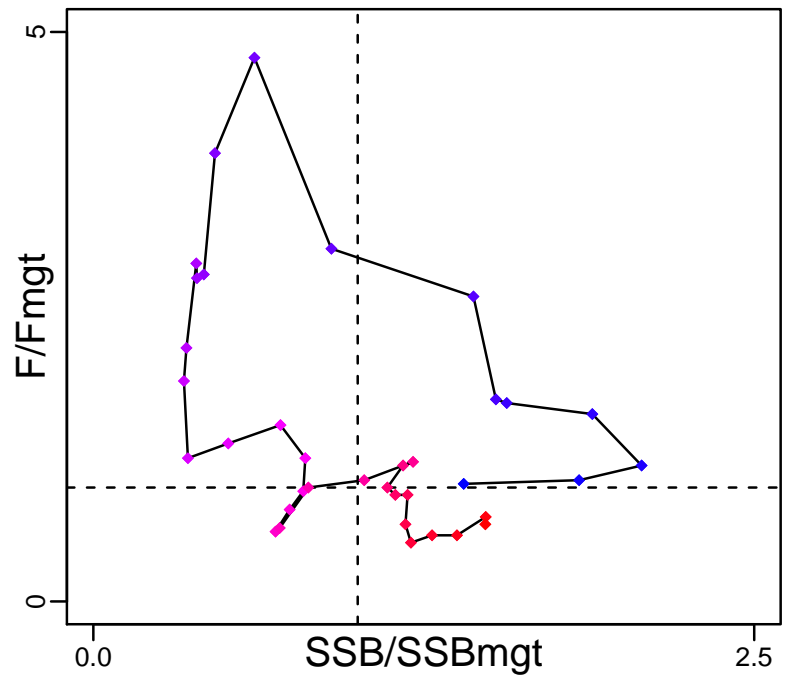
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

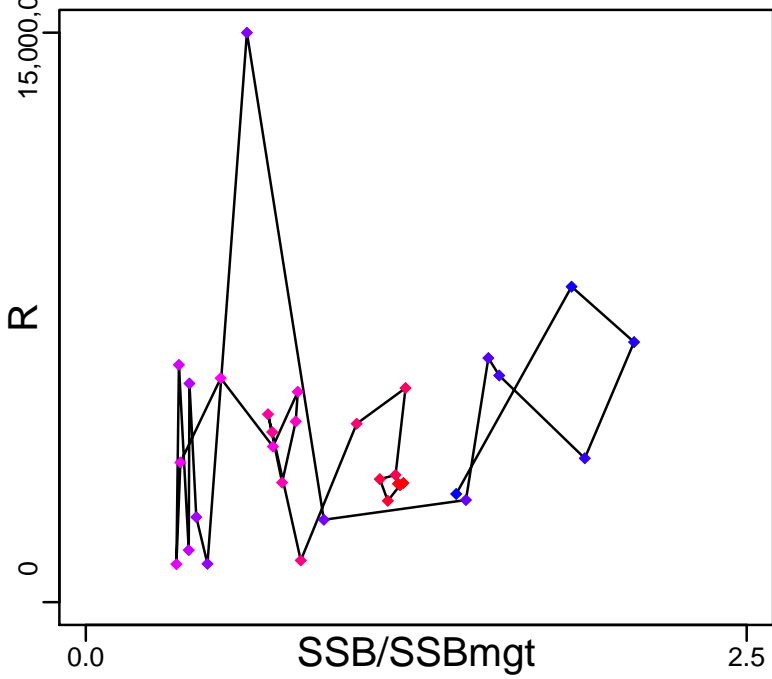
Kobe MSYpref (1980–2016–ICESIMP2016)



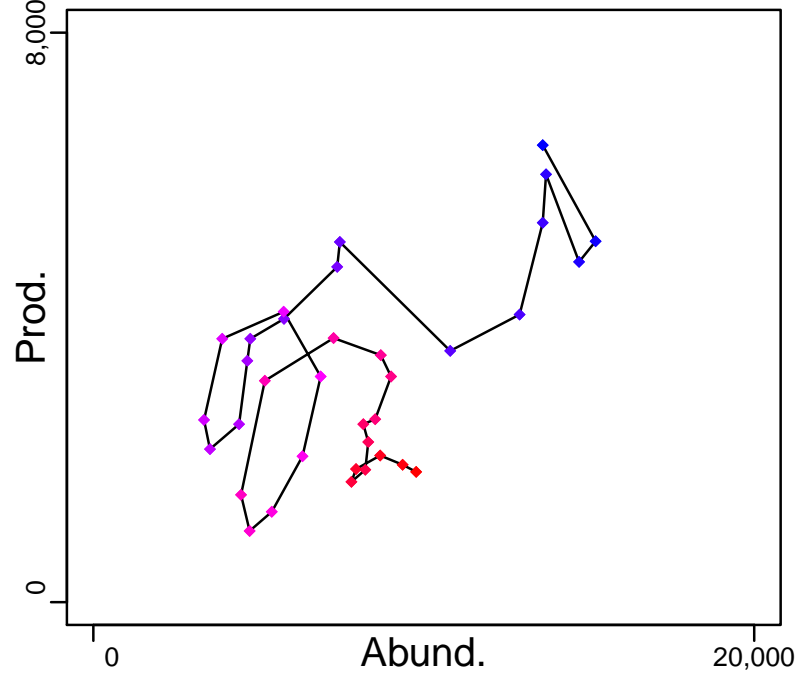
Kobe MGTpref (1980–2016–ICESIMP2016)



Spawner Recruit (1980–2016–ICESIMP2016)



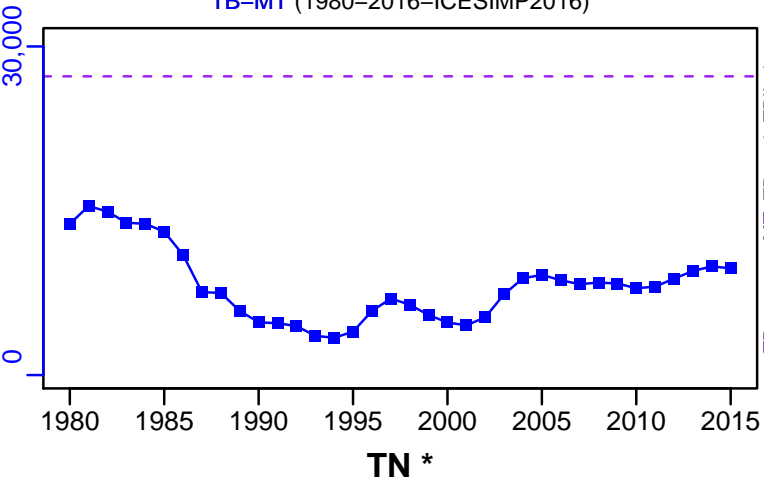
Production (1980–2016–ICESIMP2016)



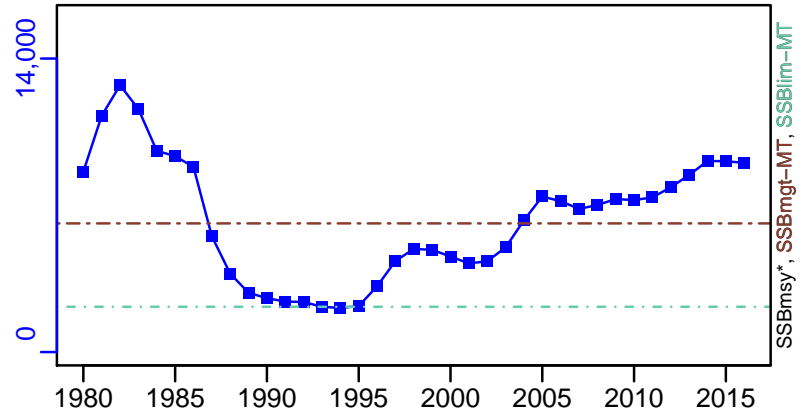
◆ Start Year ◆ End Year * No Data

White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

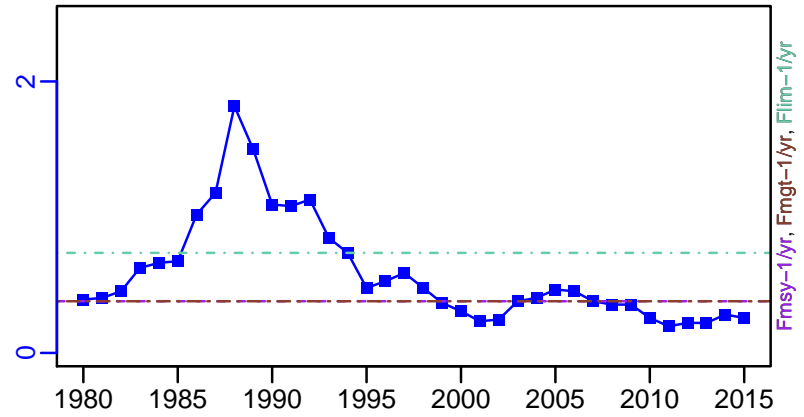
TB-MT (1980–2016–ICESIMP2016)



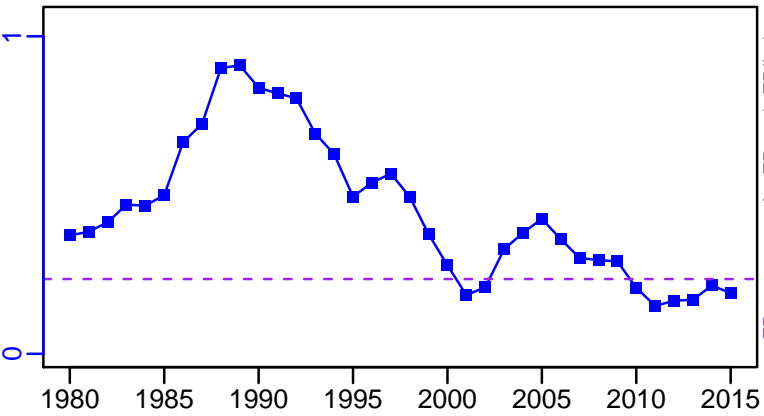
SSB-MT (1980–2016–ICESIMP2016)



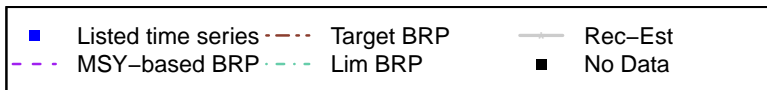
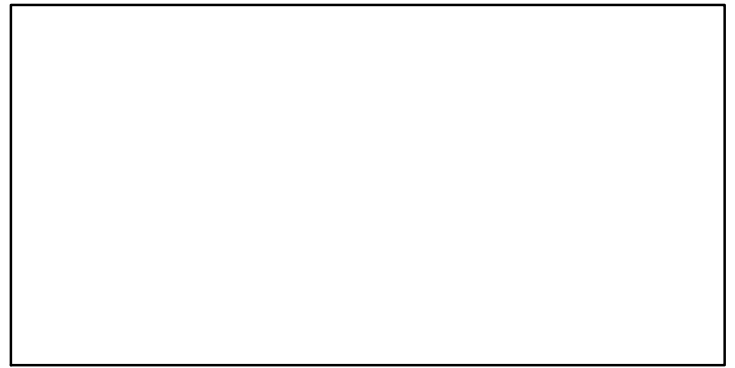
F-1/yr (1980–2016–ICESIMP2016)



ER-calc-ratio (1980–2016–ICESIMP2016)



Recruits*



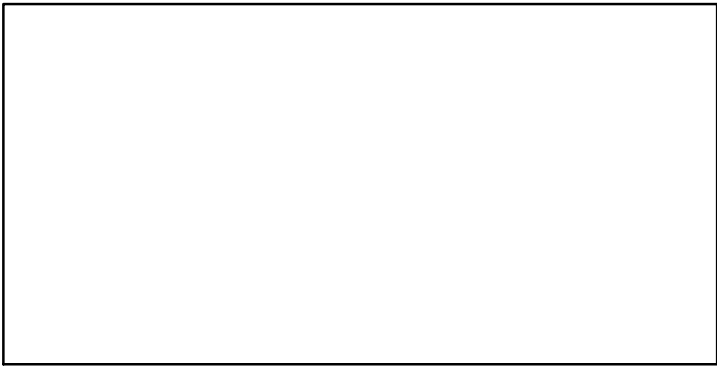
TC*, TL*, RecC*



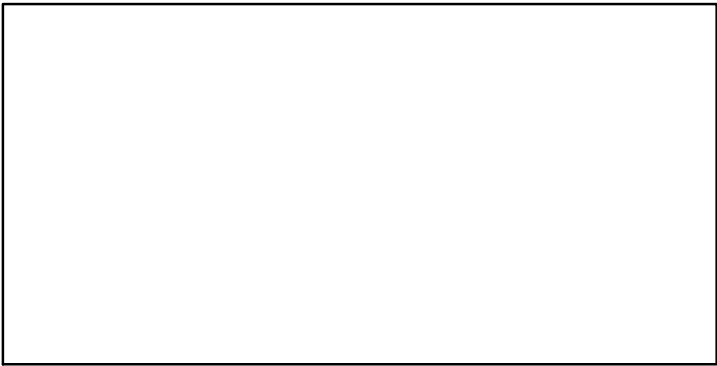
TAC*, Cpair*, Cadv*



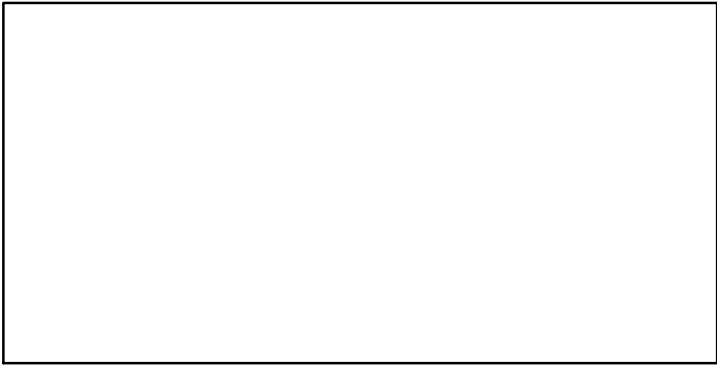
survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

MSY

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MORAT

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No Data

White anglerfish VII and VIIIabd [WANGLVII-VIIIabd]

Metadata	
Scientific Name	Lophius piscatorius
Current Assess ID	WGBIE-WANGLVII-VIIIabd-1986-2016-ICESIMP2016
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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	26,868
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.31
ERmsy	ERmsy-est-ratio	2016	0.22
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	5400
Fmgt	Fmgt-1/yr	2016	0.31
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	6023
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	1900
Flim	Flim-1/yr	2016	0.6
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.36		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.81		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

White anglerfish VII and VIIIabd [WANGLVII–VIIIabd]

TB*



SSB*



TN *



F*



ER*



Recruits*



TC*, TL*, RecC*



TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

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MSY

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MORAT

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No Data

Whiting NS-VIId [WHITNS-VIId]

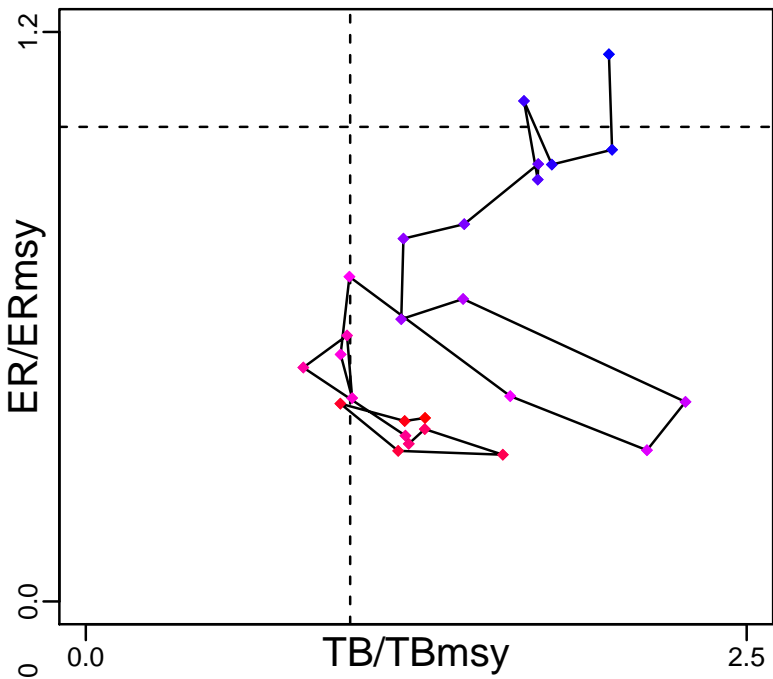
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGNSSK-WHITNS-VIId-1989-2016-ICESIMP2016
Area	IV and VIId
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
Asmts in RAM	2012, 2013, 2014, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	377,617
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.15
ERmsy	ERmsy-est-ratio	2016	0.18
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	241,837
Fmgt	Fmgt-1/yr	2016	0.15
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	66,886
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	172,741
Flim	Flim-1/yr	2016	0.39
ERlim	-	-	-

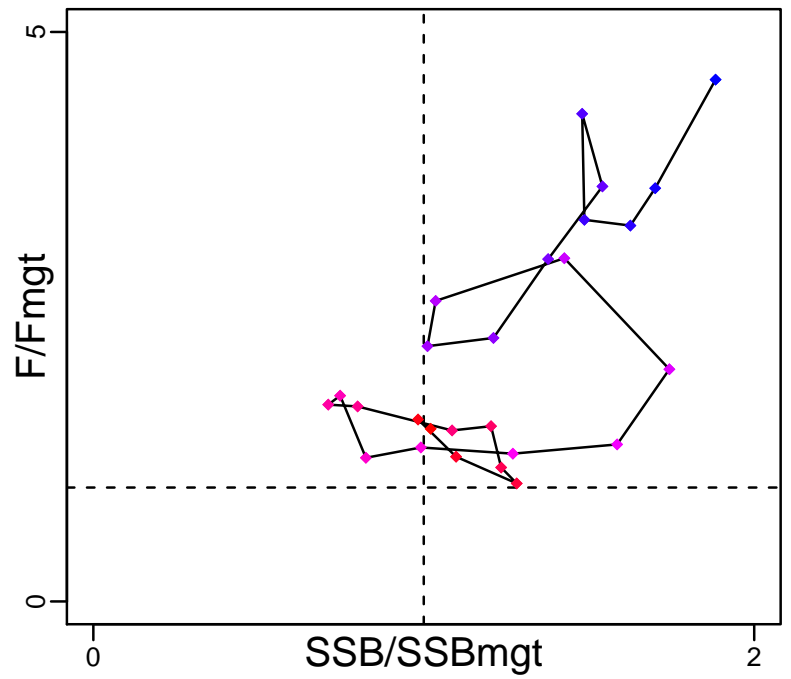
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.57		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Whiting NS-VIId [WHITNS-VIId]

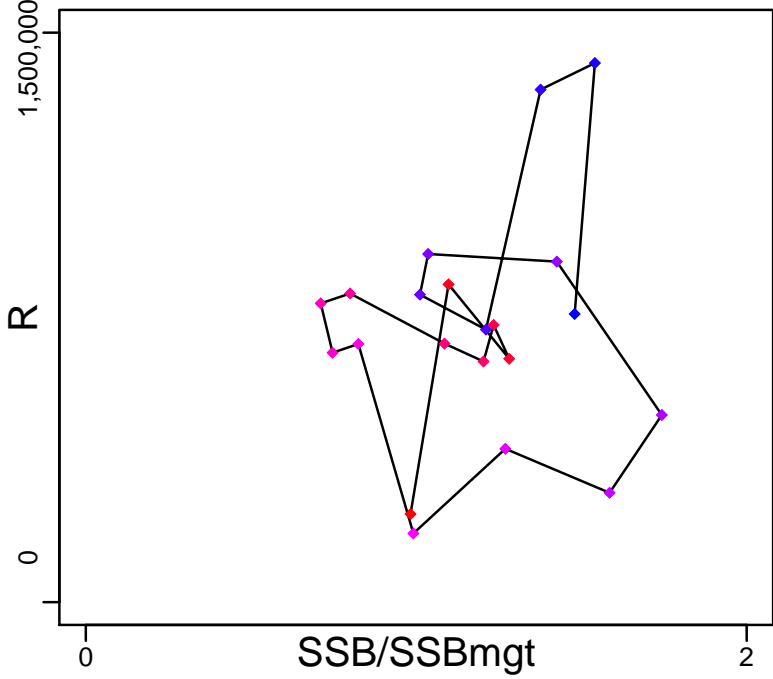
Kobe MSYpref (1989–2016–ICESIMP2016)



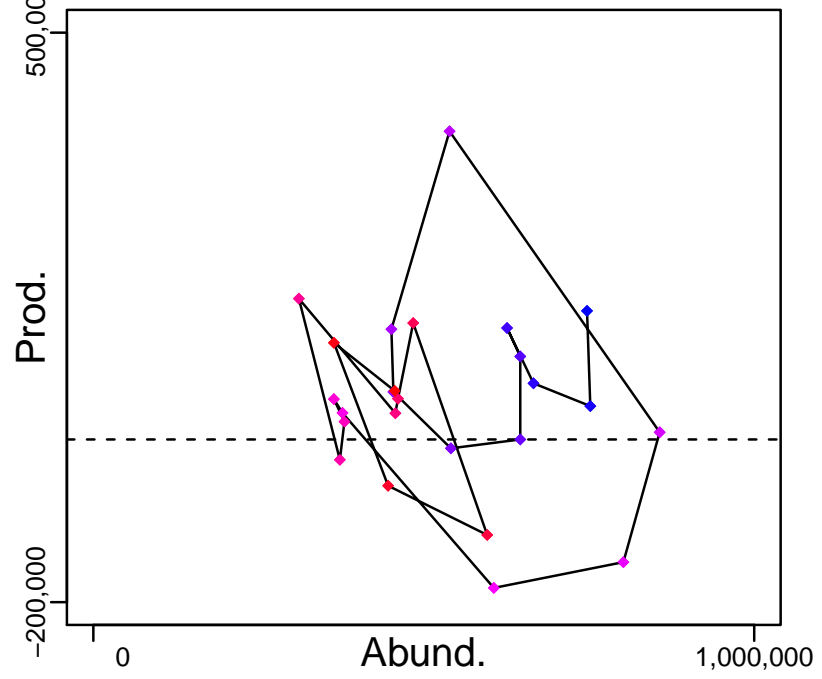
Kobe MGTpref (1989–2016–ICESIMP2016)



Spawner Recruit (1989–2016–ICESIMP2016)



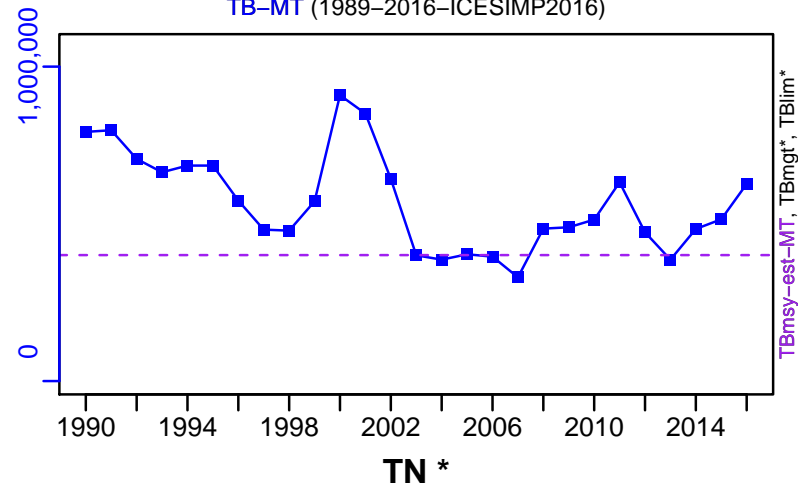
Production (1989–2016–ICESIMP2016)



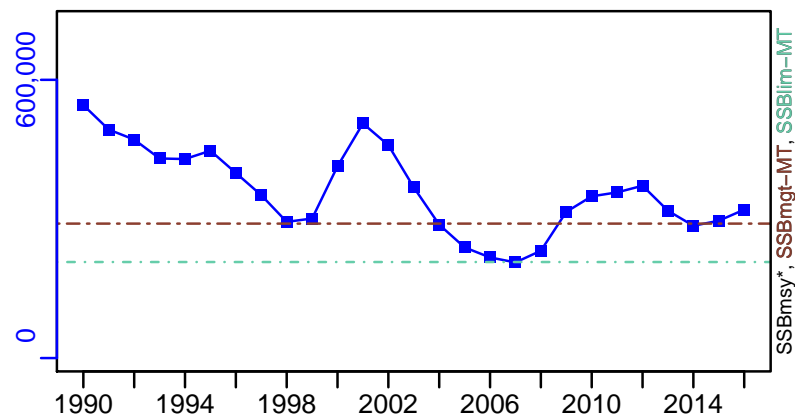
◆ Start Year ◆ End Year * No Data

Whiting NS-VIld [WHITNS-VIld]

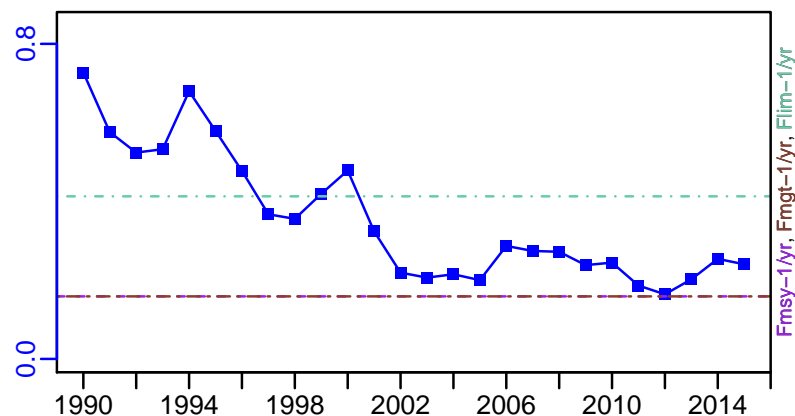
TB-MT (1989–2016–ICESIMP2016)



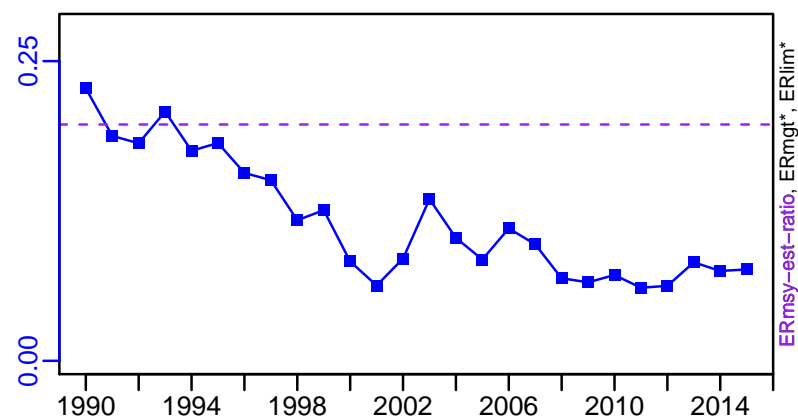
SSB-MT (1989–2016–ICESIMP2016)



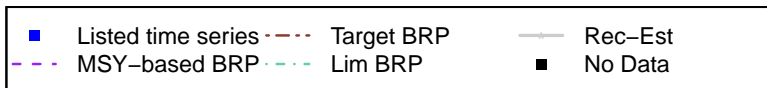
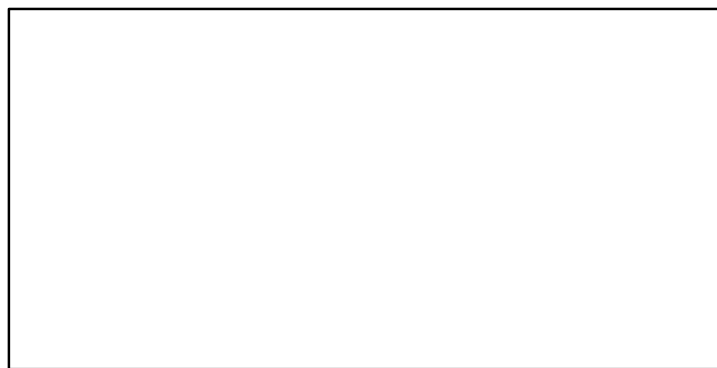
F-1/yr (1989–2016–ICESIMP2016)



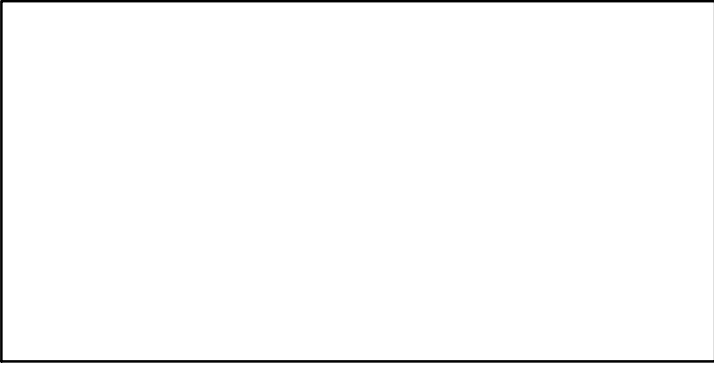
ER-calc-ratio (1989–2016–ICESIMP2016)



Recruits*



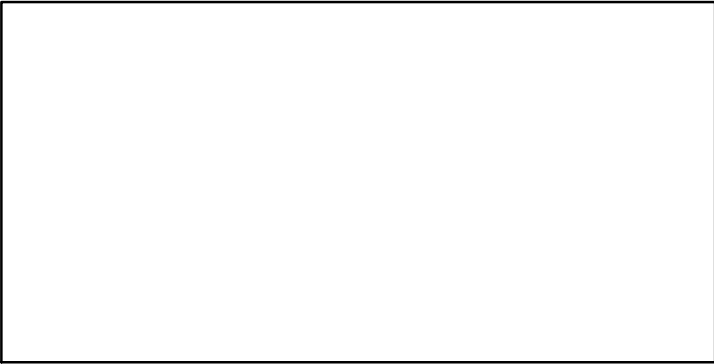
TC*, TL*, RecC*



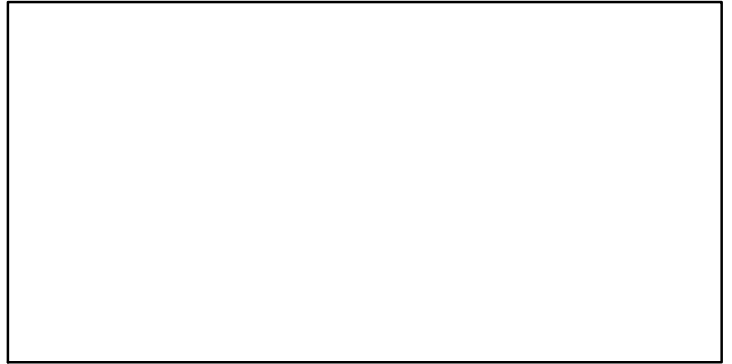
TAC*, Cpair*, Cadv*



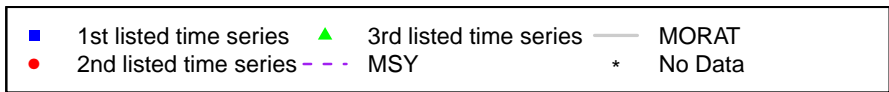
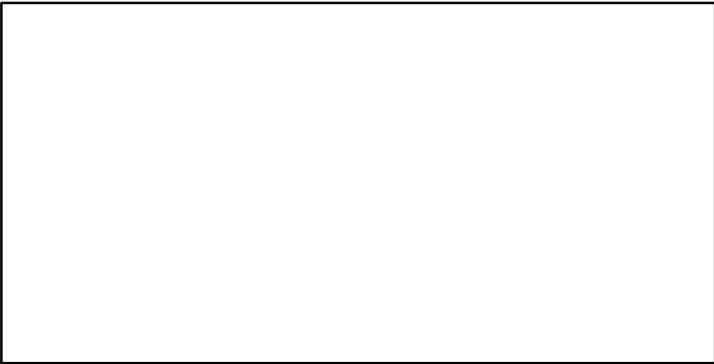
survB*



CPUE*



EFFORT*



Whiting ICES VIa [WHITVIa]

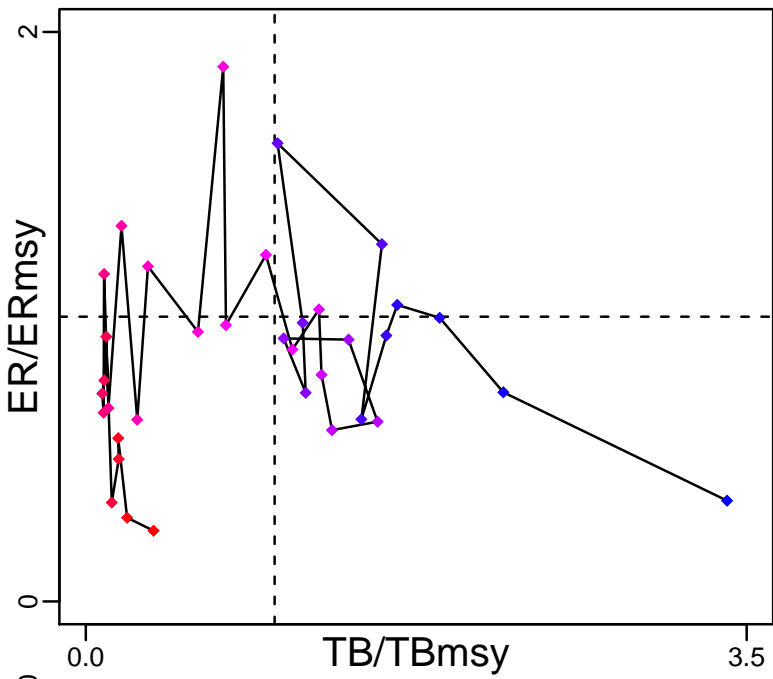
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVIa-1980-2016-ICESIMP2016
Area	West of Scotland
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	49,790
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.18
ERmsy	ERmsy-est-ratio	2016	0.24
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	44,632
Fmgt	Fmgt-1/yr	2016	0.18
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-est-MT	2016	11,922
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	31,880
Flim	Flim-1/yr	2016	0.27
ERlim	-	-	-

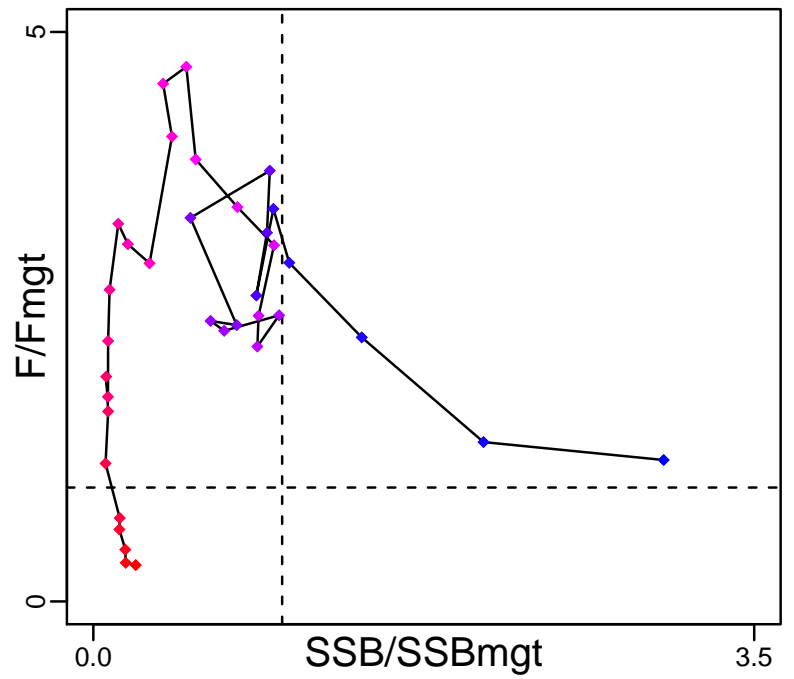
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	21,100	-	-
SSB	SSB-MT	2016	16,200	-	-
TN	-	-	-	-	-
R	R-E00	2016	87,900,000	-	1
F	F-1/yr	2016	0	-	2 to 4
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	1060		
TL	TL-MT	2016	227		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	0.42		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.32		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.25		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.36		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.32		
ER/ERmgt	-	-	-		

Whiting ICES Via [WHITVla]

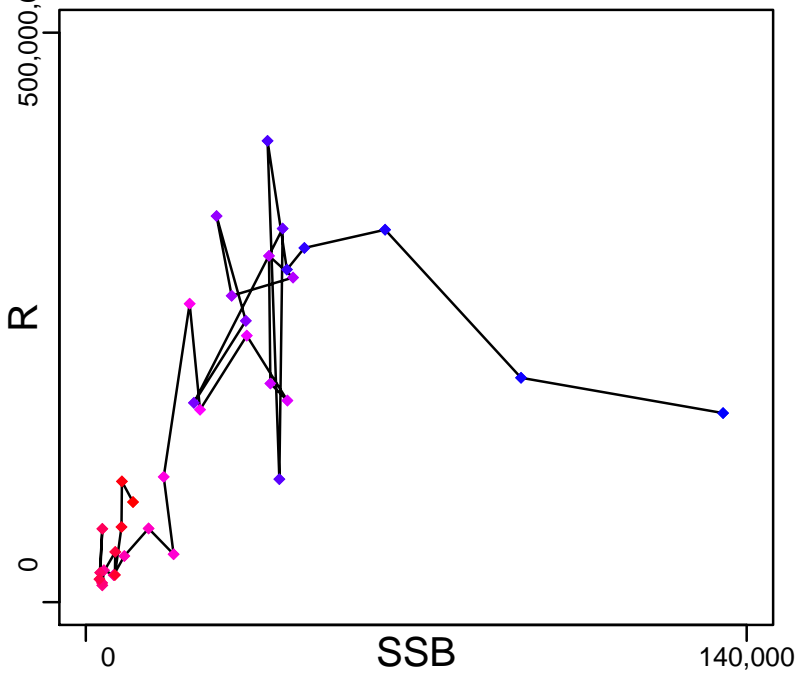
Kobe MSYpref (1980–2016–ICESIMP2016)



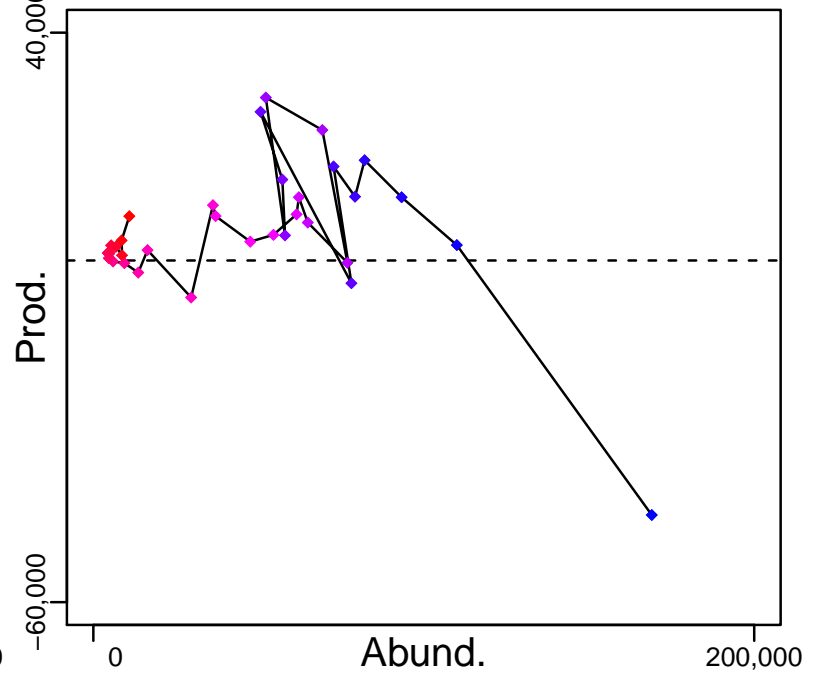
Kobe MGTpref (1980–2016–ICESIMP2016)



Spawner Recruit (1980–2016–ICESIMP2016)



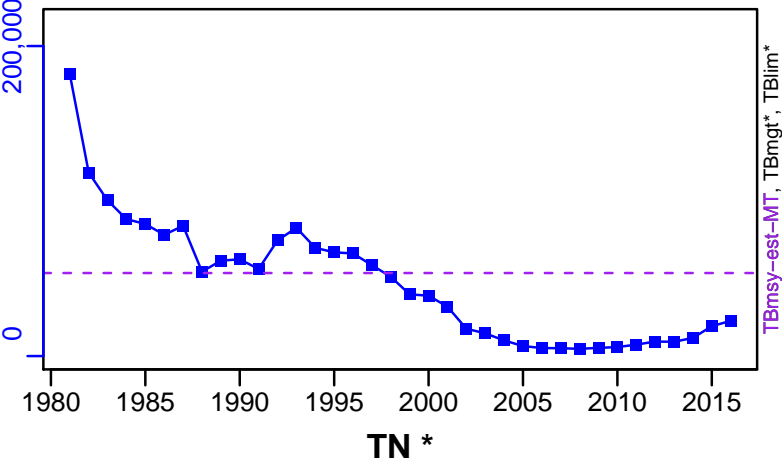
Production (1980–2016–ICESIMP2016)



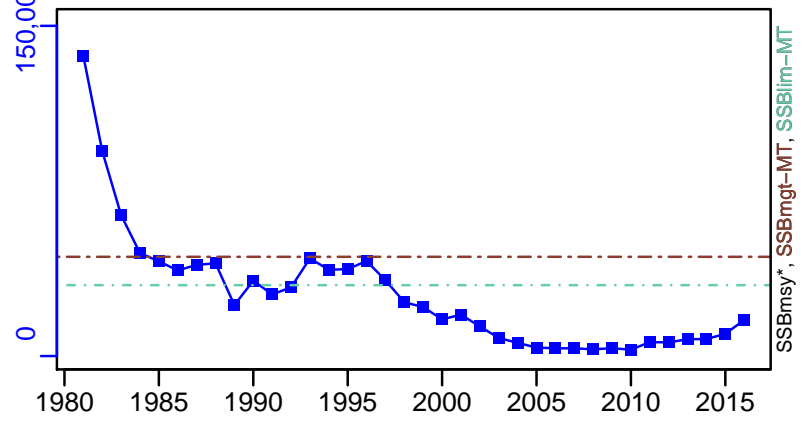
◆ Start Year ◆ End Year * No Data

Whiting ICES Via [WHITVla]

TB-MT (1980–2016–ICESIMP2016)

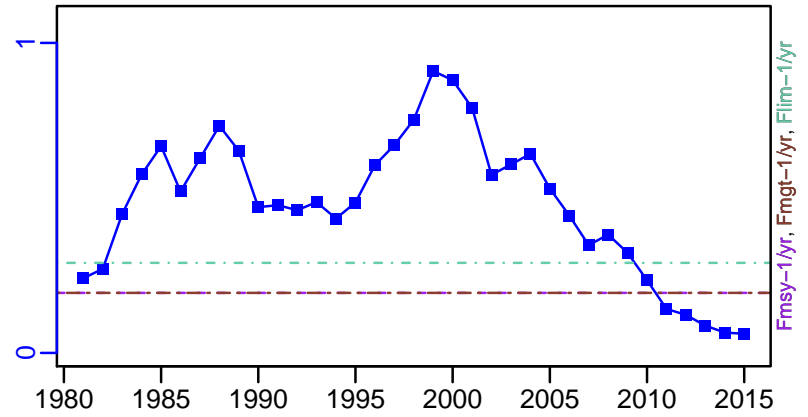


SSB-MT (1980–2016–ICESIMP2016)

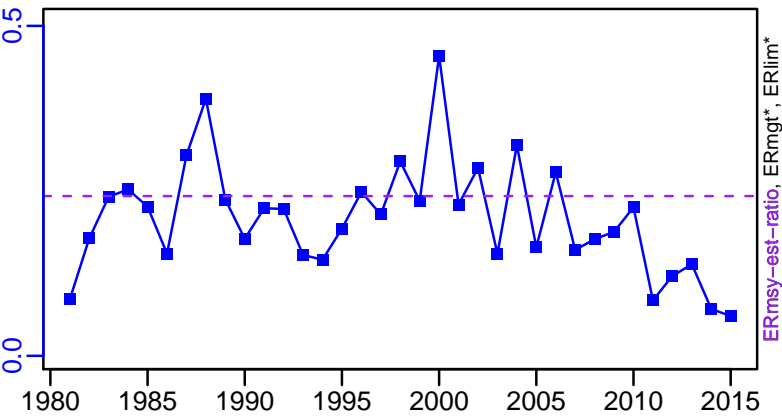


TN *

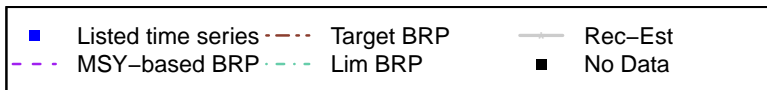
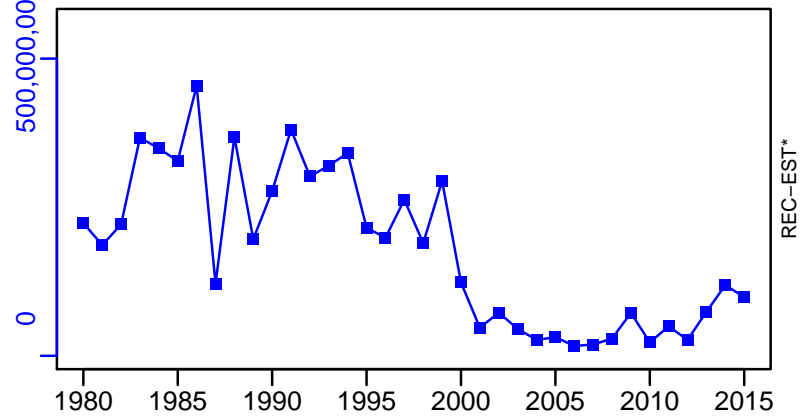
F-1/yr (1980–2016–ICESIMP2016)



ER-calc-ratio (1980–2016–ICESIMP2016)

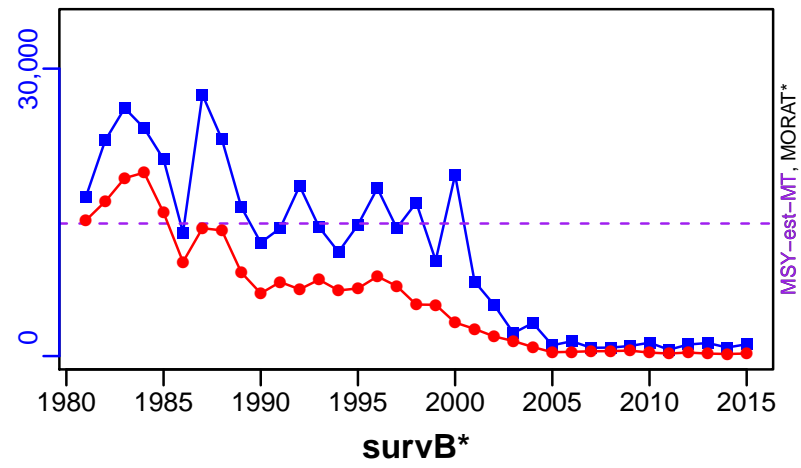


R-E00 (1980–2016–ICESIMP2016)



Whiting ICES Via [WHITVla]

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



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Whiting ICES Vlle-k [WHITVllek]

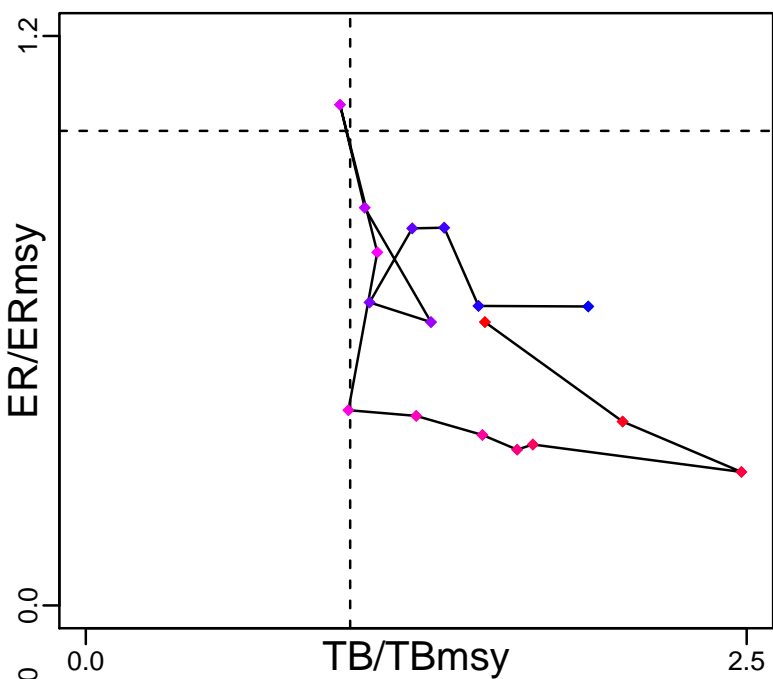
Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGCSE-WHITVllek-1999-2016-ICESIMP2016
Area	Celtic Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Celtic Seas Ecosystems
Asmts in RAM	2013, 2014, 2015, 2016, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2016	63,125
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2016	0.52
ERmsy	ERmsy-est-ratio	2016	0.34
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	35,000
Fmgt	Fmgt-1/yr	2016	0.52
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	21,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	25,000
Flim	Flim-1/yr	2016	1.12
ERlim	-	-	-

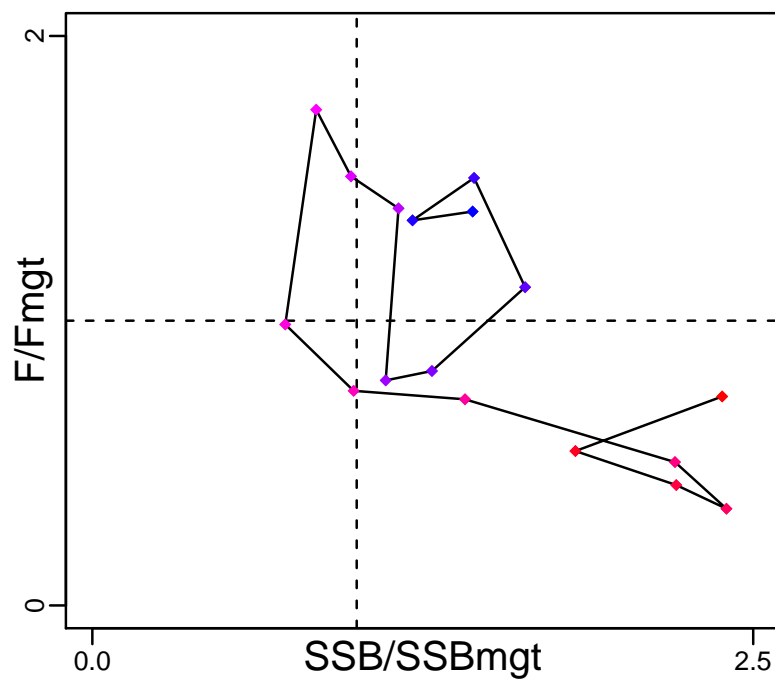
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	95,300	-	-
SSB	SSB-MT	2016	63,900	-	-
TN	-	-	-	-	-
R	R-E00	2016	9.81×10^8	-	0
F	F-1/yr	2016	0	-	2 to 5
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	19,300		
TL	TL-MT	2016	13,200		
TB/TBmsy	TB-MT/TBmsy-est-MT	2016	1.51		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.73		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2016	0.6		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.83		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.73		
ER/ERmgt	-	-	-		

Whiting ICES Vlle-k [WHITVllek]

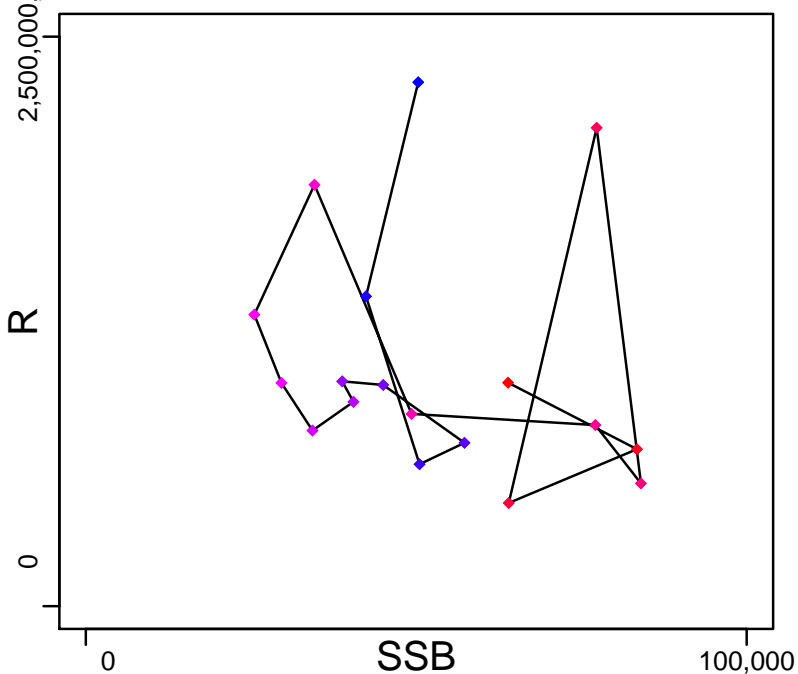
Kobe MSYpref (1999–2016–ICESIMP2016)



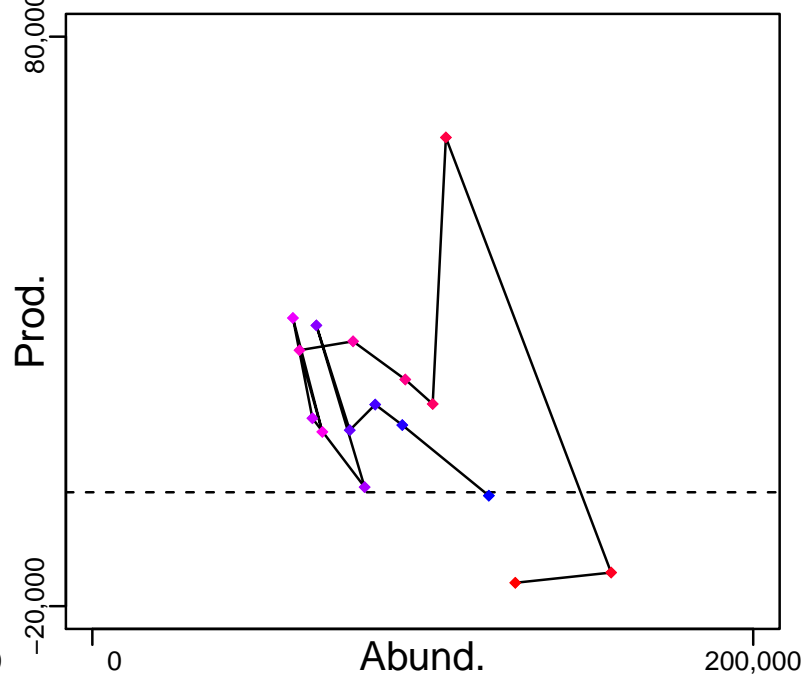
Kobe MGTpref (1999–2016–ICESIMP2016)



Spawner Recruit (1999–2016–ICESIMP2016)



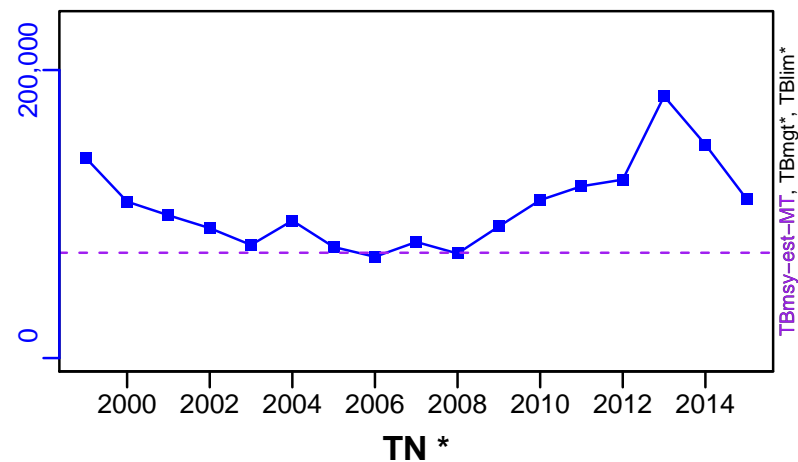
Production (1999–2016–ICESIMP2016)



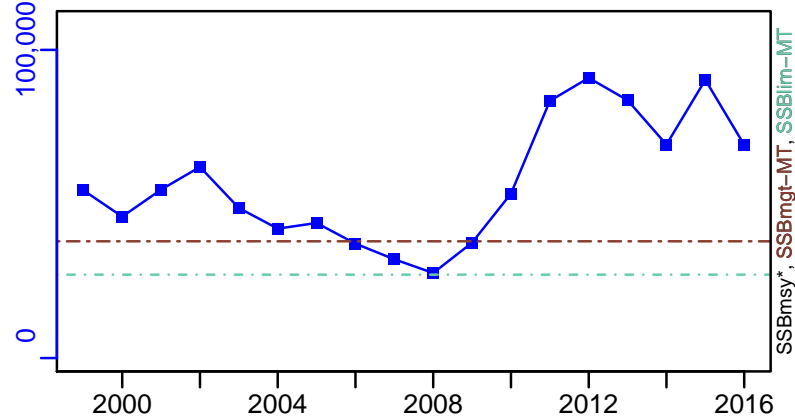
◆ Start Year ◆ End Year * No Data

Whiting ICES Vlle-k [WHITVllek]

TB-MT (1999–2016–ICESIMP2016)

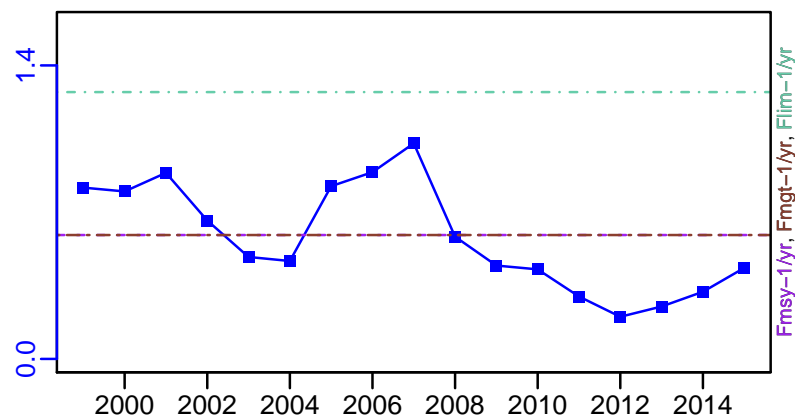


SSB-MT (1999–2016–ICESIMP2016)

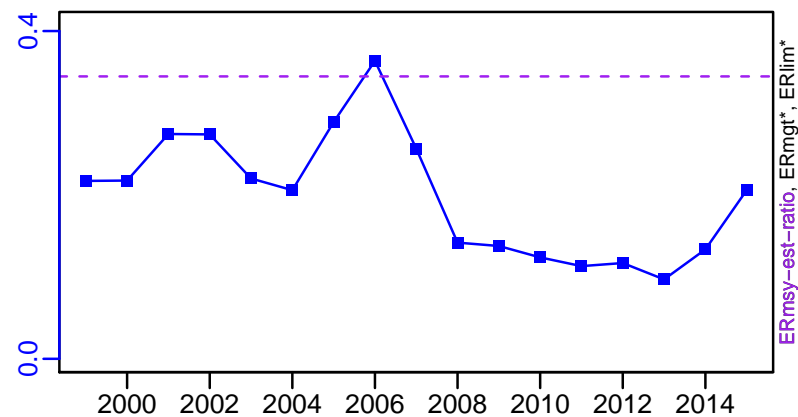


TN *

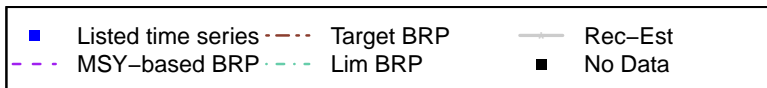
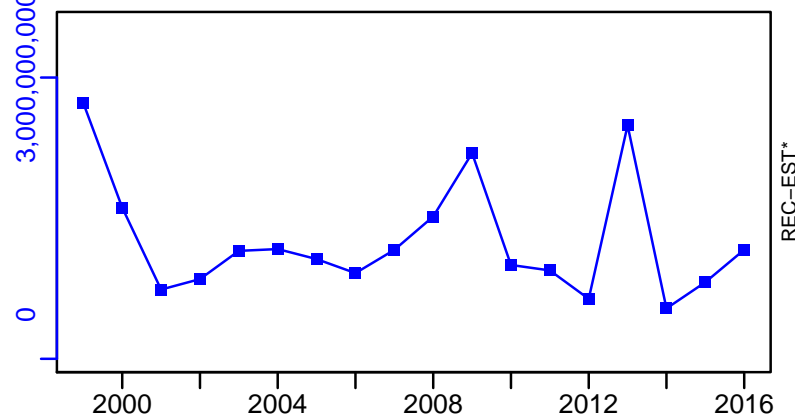
F-1/yr (1999–2016–ICESIMP2016)



ER-calc-ratio (1999–2016–ICESIMP2016)

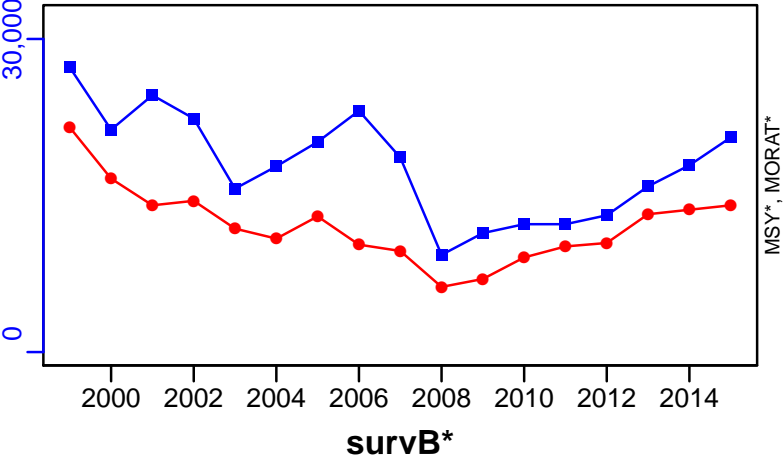


R-E00 (1999–2016–ICESIMP2016)



Whiting ICES Vlle-k [WHITVllek]

TC-MT, TL-MT, RecC* (1999-2016-ICESIMP2016)



TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



Whiting VIII and IXa [WHITVIII-IXa]

Metadata	
Scientific Name	Merlangius merlangus
Current Assess ID	WGBIE-WHITVIII-IXa-1994-2016-ICESIMP2016
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	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



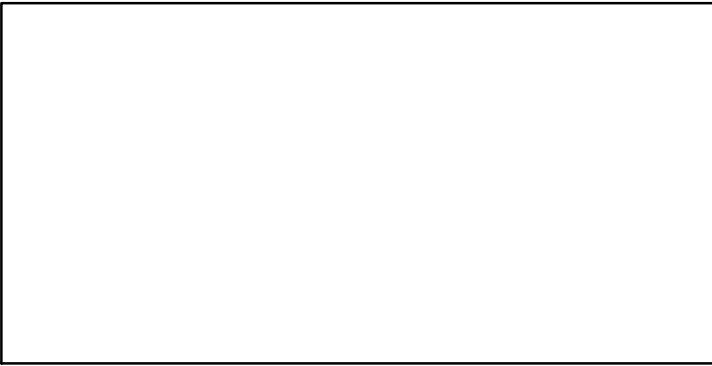
Production*



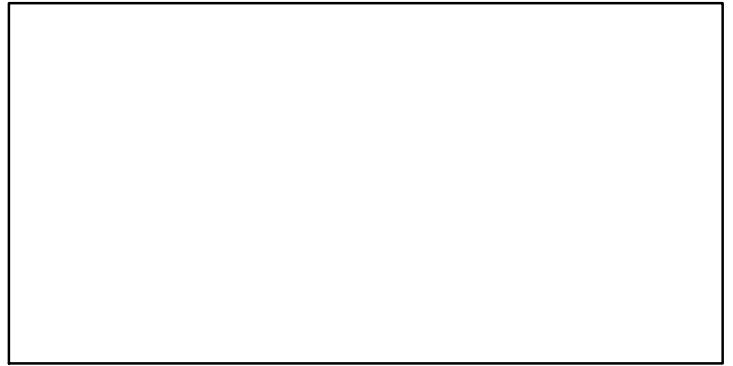
◆ Start Year ◆ End Year * No Data

Whiting VIII and IXa [WHITVIII-IXa]

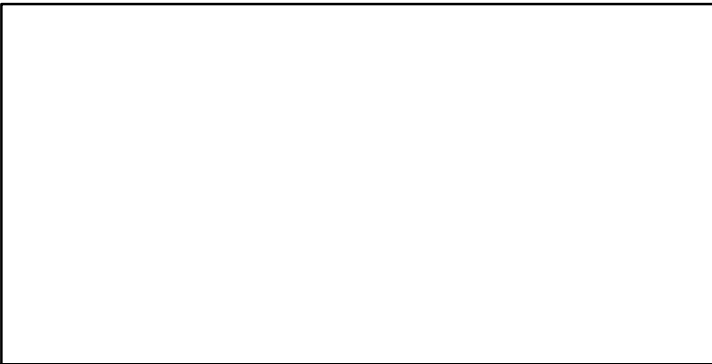
TB*



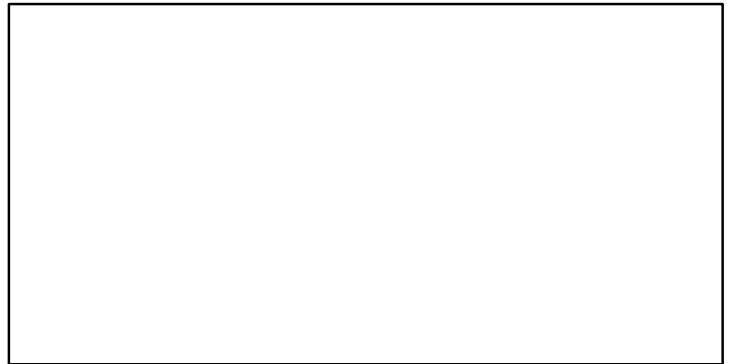
SSB*



TN *



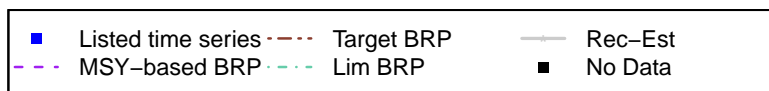
F*



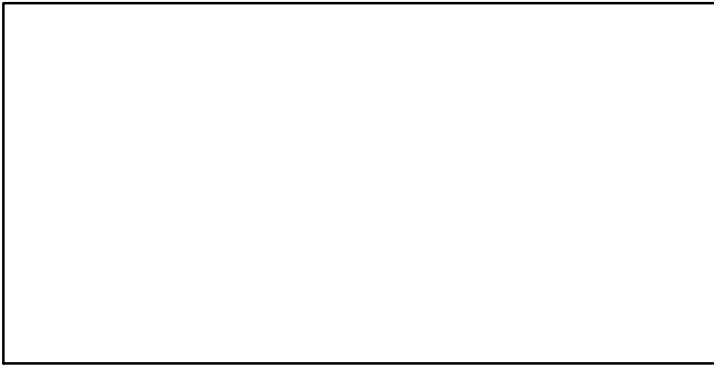
ER*



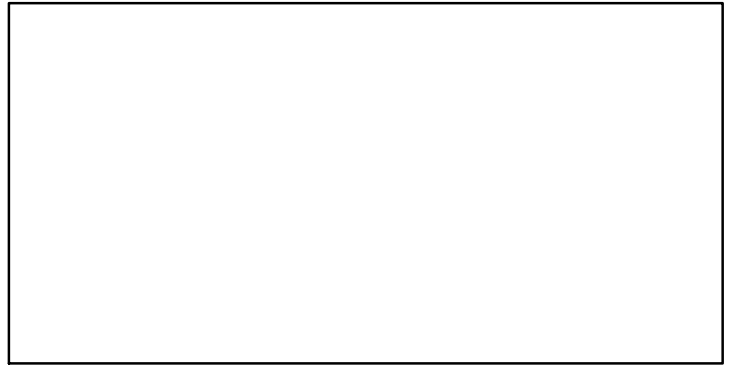
Recruits*



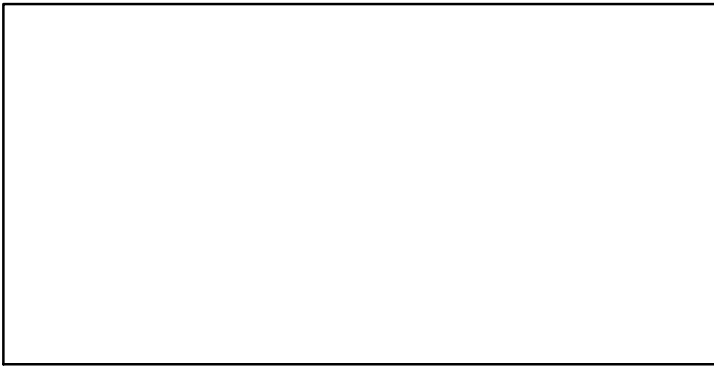
TC*, TL*, RecC*



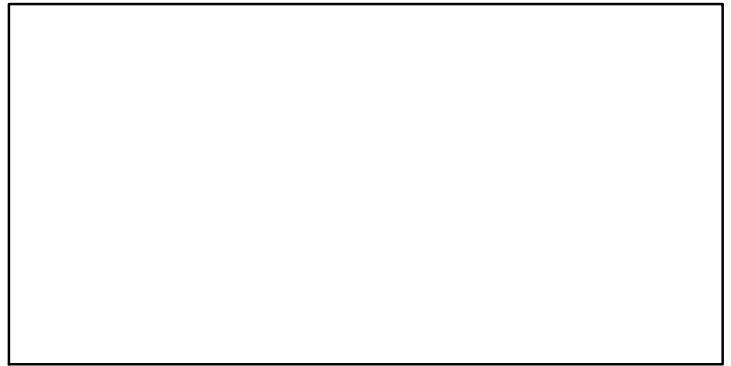
TAC*, Cpair*, Cadv*



survB*



CPUE*



EFFORT*

