

# European Union Stocks

## v4.40 (Jun-04-2018)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ANCHIXa [Anchovy Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F	
2. ANCHOBAYB [Anchovy ICES VIII]	TB SSB	ER F	TB SSB	ER F	
3. ANGLVIIIc-IXa [Black bellied angler VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F	
4. ANGLVII-VIIIabd [Black bellied angler VII and VIIIabd]	TB SSB	ER F	TB SSB	ER F	
5. BJMACKXa2 [Blue jack mackerel Azores (Xa2)]	TB SSB	ER F	TB SSB	ER F	
6. BLINGI-II-IIIa-IVa-VIII-IX-XII [Blue ling I-II-IIIa-IVa-VIII-IX-XII]	TB SSB	ER F	TB SSB	ER F	
7. BOARVI-VIII [Boarfish VI and VIII]	TB SSB	ER F	TB SSB	ER F	
8. BRILL2232 [Brill Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F	
9. BWHITNEA [Blue Whiting Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
10. CODBA2224 [Atlantic cod Baltic Areas 22 and 24]	TB SSB	ER F	TB SSB	ER F	
11. CODBA2532 [Atlantic cod Baltic Areas 25-32]	TB SSB	ER F	TB SSB	ER F	
12. CODIIIaW-IV-VIId [Atlantic cod IIIa (west) and IV-VIId]	TB SSB	ER F	TB SSB	ER F	
13. CODIS [Atlantic cod Irish Sea]	TB SSB	ER F	TB SSB	ER F	
14. CODKAT [Atlantic cod Kattegat]	TB SSB	ER F	TB SSB	ER F	
15. CODVIa [Atlantic cod West of Scotland]	TB SSB	ER F	TB SSB	ER F	
16. CODVIIek [Atlantic Cod Celtic Sea]	TB SSB	ER F	TB SSB	ER F	
17. CUSKVa-XIV [Tusk Va and XIV]	TB SSB	ER F	TB SSB	ER F	
18. CUSKVlb [Tusk Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
19. CUSKXII [Tusk North of Azores]	TB SSB	ER F	TB SSB	ER F	
20. DAB2232 [Dab VII-VIIIabd]	TB SSB	ER F	TB SSB	ER F	
21. EBASSIVbc-VII [European seabass IVbc and VII]	TB SSB	ER F	TB SSB	ER F	
22. EBASSVIa-VIIb-j [European seabass VIa and VIIb-j]	TB SSB	ER F	TB SSB	ER F	
23. EBASSVIIIc-IXa [European seabass VIIIc and IXa]	TB SSB	ER F	TB SSB	ER F	
24. EFLOUN2223 [European flounder Subdivisions 22-23]	TB SSB	ER F	TB SSB	ER F	
25. EFLOUN2425 [European flounder Subdivisions 24-25]	TB SSB	ER F	TB SSB	ER F	
26. EFLOUN26-28 [European flounder Subdivisions 26-28]	TB SSB	ER F	TB SSB	ER F	
27. EFLOUN27-2932 [European flounder Subdivisions 27 and 29-32]	TB SSB	ER F	TB SSB	ER F	
28. EPOLLIV-IIIa [European pollack IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F	
29. EPOLLVIII-IXa [European pollack VIII and IXa]	TB SSB	ER F	TB SSB	ER F	
30. FMEG8c9a [Fourspotted megrim ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F	
31. GFORKNEATL [Greater forkbeard Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F	
32. GGURNIIIa-IV-VIId [Grey gurnard IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F	
33. GHALV-VI-XII-XIV [Greenland halibut V-VI-XII-XIV]	TB SSB	ER F	TB SSB	ER F	
34. GOLDREDV-VI-XII-XIV [Golden Redfish V-VI-XII-XIV]	TB SSB	ER F	TB SSB	ER F	
35. HADIS [Haddock Irish Sea]	TB SSB	ER F	TB SSB	ER F	
36. HADNS-IIIa-VIa [Haddock North Sea and IIIa-VIa]	TB SSB	ER F	TB SSB	ER F	
37. HADROCK [Haddock Rockall Bank]	TB SSB	ER F	TB SSB	ER F	
38. HADVIIb-k [Haddock ICES VIIb-k]	TB SSB	ER F	TB SSB	ER F	
39. HAKENRTN [Hake Northeast Atlantic North]	TB SSB	ER F	TB SSB	ER F	

40. HAKESOTH [Hake Northeast Atlantic South]	TB SSB	ER F	TB SSB	ER F
41. HERR2224IIIa [Herring ICES 22-24-IIIa]	TB SSB	ER F	TB SSB	ER F
42. HERR2529-32 [Herring Subdivisions 25-29 and 32]	TB SSB	ER F	TB SSB	ER F
43. HERR30 [Herring ICES 30]	TB SSB	ER F	TB SSB	ER F
44. HERR31 [Herring ICES 31]	TB SSB	ER F	TB SSB	ER F
45. HERRNIRS [Herring Northern Irish Sea]	TB SSB	ER F	TB SSB	ER F
46. HERRNS-IIIa-VIId [Herring IIIa, VIId and North Sea]	TB SSB	ER F	TB SSB	ER F
47. HERRRIGA [Herring ICES 28]	TB SSB	ER F	TB SSB	ER F
48. HERRSIRS [Herring ICES VIIa-g-h-j]	TB SSB	ER F	TB SSB	ER F
49. HERRVIa [Herring ICES VIa]	TB SSB	ER F	TB SSB	ER F
50. HERRVIaVIIbc [Herring ICES VIa-VIIb-VIIc]	TB SSB	ER F	TB SSB	ER F
51. HMACKIIa-IVa-Vb-VIa-VII-VIII [Horse mackerel IIa-IVa-Vb-VIa-VII-VIII]	TB SSB	ER F	TB SSB	ER F
52. HMACKIIIa-IVbc-VIId [Horse mackerel IIIa-IVbc-VIId]	TB SSB	ER F	TB SSB	ER F
53. HMACKIXa [Horse mackerel Portugese Waters -East]	TB SSB	ER F	TB SSB	ER F
54. LINGVa [Ling Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
55. MACKNEICES [Mackerel ICES Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
56. MEG8c9a [Megrim ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
57. MEGSPPIVa-VIa [Megrim spp. IVa and VIa]	TB SSB	ER F	TB SSB	ER F
58. MEGVII-VIIIabd [Megrim VII-VIIIabd]	TB SSB	ER F	TB SSB	ER F
59. NEPHFU10 [Norway lobster Noup (FU 10)]	TB SSB	ER F	TB SSB	ER F
60. NEPHFU11 [Norway lobster North Minch (FU 11)]	TB SSB	ER F	TB SSB	ER F
61. NEPHFU12 [Norway lobster South Minch (FU 12)]	TB SSB	ER F	TB SSB	ER F
62. NEPHFU13 [Norway lobster Firth of Clyde and Sound of Jura (FU 13)]	TB SSB	ER F	TB SSB	ER F
63. NEPHFU14 [Norway lobster Irish Sea East (FU 14)]	TB SSB	ER F	TB SSB	ER F
64. NEPHFU15 [Norway lobster Irish Sea West (FU 15)]	TB SSB	ER F	TB SSB	ER F
65. NEPHFU16 [Norway lobster Porcupine Bank (FU 16)]	TB SSB	ER F	TB SSB	ER F
66. NEPHFU17 [Norway lobster Aran Grounds (FU 17)]	TB SSB	ER F	TB SSB	ER F
67. NEPHFU19 [Norway lobster South East and West of IRL (FU 19)]	TB SSB	ER F	TB SSB	ER F
68. NEPHFU2021 [Norway lobster Labadie, Jones and Cockburn (FU 20-21)]	TB SSB	ER F	TB SSB	ER F
69. NEPHFU22 [Norway lobster Smalls (FU 22)]	TB SSB	ER F	TB SSB	ER F
70. NEPHFU25 [Norway lobster North Galicia (FU 25)]	TB SSB	ER F	TB SSB	ER F
71. NEPHFU2627 [Norway lobster West Galicia and North Portugal (FU 26-27)]	TB SSB	ER F	TB SSB	ER F
72. NEPHFU2829 [Norway lobster South-West and South Portugal (FU 28-29)]	TB SSB	ER F	TB SSB	ER F
73. NEPHFU30 [Norway lobster Gulf of Cadiz (FU 30)]	TB SSB	ER F	TB SSB	ER F
74. NEPHFU31 [Norway lobster Cantabrian Sea (FU 31)]	TB SSB	ER F	TB SSB	ER F
75. NEPHFU32 [Norway lobster Norwegian Deep (FU 32)]	TB SSB	ER F	TB SSB	ER F
76. NEPHFU33 [Norway lobster Off Horn Reef (FU 33)]	TB SSB	ER F	TB SSB	ER F
77. NEPHFU34 [Norway lobster Devil's Hole (FU 34)]	TB SSB	ER F	TB SSB	ER F
78. NEPHFU3-4 [Norway lobster Skagerrak Kattegat (FU 3-4)]	TB SSB	ER F	TB SSB	ER F
79. NEPHFU5 [Norway lobster Botney Cut - Silver Pit (FU 5)]	TB SSB	ER F	TB SSB	ER F
80. NEPHFU6 [Norway lobster Farn Deep (FU 6)]	TB SSB	ER F	TB SSB	ER F
81. NEPHFU7 [Norway lobster Fladen Ground (FU 7)]	TB SSB	ER F	TB SSB	ER F
82. NEPHFU8 [Norway lobster Firth of Forth (FU 8)]	TB SSB	ER F	TB SSB	ER F
83. NEPHFU9 [Norway lobster Moray Firth (FU 9)]	TB SSB	ER F	TB SSB	ER F

84. NPOUTIIla-IV [Norway pout IIIa and North Sea]	TB SSB	ER F	TB SSB	ER F
85. OROUGHYNEATL [Orange roughy Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
86. PANDALIIlaW-IVaE [Northern shrimp IIIa (west) and IVa (east)]	TB SSB	ER F	TB SSB	ER F
87. PANDALIVa [Northern shrimp Northern North Sea]	TB SSB	ER F	TB SSB	ER F
88. PLAIC2123 [European Plaice Subdivisions 21-23]	TB SSB	ER F	TB SSB	ER F
89. PLAIC2432 [European Plaice Subdivisions 24-32]	TB SSB	ER F	TB SSB	ER F
90. PLAIC7d [European Plaice ICES VIIId]	TB SSB	ER F	TB SSB	ER F
91. PLAICCELT [European Plaice ICES VIIIf-g]	TB SSB	ER F	TB SSB	ER F
92. PLAICECHW [European Plaice ICES VIIe]	TB SSB	ER F	TB SSB	ER F
93. PLAICIS [European Plaice Irish Sea]	TB SSB	ER F	TB SSB	ER F
94. PLAICNS [European Plaice North Sea]	TB SSB	ER F	TB SSB	ER F
95. PLAICVIIbc [European Plaice VIIbc]	TB SSB	ER F	TB SSB	ER F
96. PLAICVIIh-k [European Plaice VIIh-k]	TB SSB	ER F	TB SSB	ER F
97. PLAICVIII-IXa [European Plaice VIII and IXa]	TB SSB	ER F	TB SSB	ER F
98. POLLNS-VI-IIIa [Pollock ICES IIIa, VI and North Sea]	TB SSB	ER F	TB SSB	ER F
99. RBRMIX [Red seabream IX]	TB SSB	ER F	TB SSB	ER F
100. RBRMVI-VII-VIII [Red seabream VI-VII-VIII]	TB SSB	ER F	TB SSB	ER F
101. RBRMX [Red seabream Azores Grounds]	TB SSB	ER F	TB SSB	ER F
102. REDDEEPXIVb [Beaked Redfish Southeast Greenland]	TB SSB	ER F	TB SSB	ER F
103. RHGRENNEATL [Roughhead grenadier Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
104. RNGENI-II-IV-Va2-VIII-IX-XIVab2 [Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2]	TB SSB	ER F	TB SSB	ER F
105. RNGENMATLR [Roundnose grenadier Mid-Atlantic Ridge]	TB SSB	ER F	TB SSB	ER F
106. RNGENVb-VI-VII-XIIb [Roundnose grenadier Vb-VI-VII-XIIb]	TB SSB	ER F	TB SSB	ER F
107. RNGRENIIla [Roundnose grenadier Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
108. SARDPVIIIc-IXa [European pilchard ICES VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
109. SEELNSSA1 [Sand eel SA 1]	TB SSB	ER F	TB SSB	ER F
110. SEELNSSA2 [Sand eel SA 2]	TB SSB	ER F	TB SSB	ER F
111. SEELNSSA3 [Sand eel SA 3]	TB SSB	ER F	TB SSB	ER F
112. SEELNSSA5 [Sand eel SA 5]	TB SSB	ER F	TB SSB	ER F
113. SEELNSSA6 [Sand eel SA 6]	TB SSB	ER F	TB SSB	ER F
114. SEELNSSA7 [Sand eel SA 7]	TB SSB	ER F	TB SSB	ER F
115. SOLECS [Common sole Celtic Sea]	TB SSB	ER F	TB SSB	ER F
116. SOLEIIla-2224 [Common sole 22-24-IIla]	TB SSB	ER F	TB SSB	ER F
117. SOLEIS [Common sole Irish Sea]	TB SSB	ER F	TB SSB	ER F
118. SOLENS [Common sole North Sea]	TB SSB	ER F	TB SSB	ER F
119. SOLEVIIbc [Common sole VIIbc]	TB SSB	ER F	TB SSB	ER F
120. SOLEVIIId [Common sole ICES VIIId]	TB SSB	ER F	TB SSB	ER F
121. SOLEVIIe [Common sole Western English Channel]	TB SSB	ER F	TB SSB	ER F
122. SOLEVIIh-k [Common sole VIIh-k]	TB SSB	ER F	TB SSB	ER F
123. SOLEVIIlab [Common sole VIIlab]	TB SSB	ER F	TB SSB	ER F
124. SPRAT22-32 [Sprat ICES Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
125. SPRATIIla [Sprat Kattegat and Skagerrak]	TB SSB	ER F	TB SSB	ER F
126. SPRATNS [Sprat North Sea]	TB SSB	ER F	TB SSB	ER F
127. SPRATVIIde [Sprat VIIde]	TB SSB	ER F	TB SSB	ER F
128. SPRATVI-VIIabcfghijk [Sprat VI and VIIabcfghijk]	TB SSB	ER F	TB SSB	ER F
129. SPURDNEATL [Spurdog Northeast Atlantic]	TB SSB	ER F	TB SSB	ER F
130. TUR2232 [Turbot Baltic Areas 22-32]	TB SSB	ER F	TB SSB	ER F
131. TURIV [Turbot North Sea]	TB SSB	ER F	TB SSB	ER F

132. WANGLVIIIc-IXa [White anglerfish VIIIc-IXa]	TB SSB	ER F	TB SSB	ER F
133. WANGLVII-VIIIabd [White anglerfish VII and VIIIabd]	TB SSB	ER F	TB SSB	ER F
134. WHITNS-VIId [Whiting NS-VIId]	TB SSB	ER F	TB SSB	ER F
135. WHITVIa [Whiting ICES VIa]	TB SSB	ER F	TB SSB	ER F
136. WHITVIIek [Whiting ICES VIIe-k]	TB SSB	ER F	TB SSB	ER F
137. WHITVIII-IXa [Whiting VIII and IXa]	TB SSB	ER F	TB SSB	ER F

## Anchovy Portuguese Waters -East [ANCHIXa]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	WGHANSA-ANCHIXa-1989-2016-ICESIMP2016
<b>Area</b>	Portugese Waters -East
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Southern Horse Mackerel, Anchovy and Sardine
<b>Asmts in RAM</b>	2016

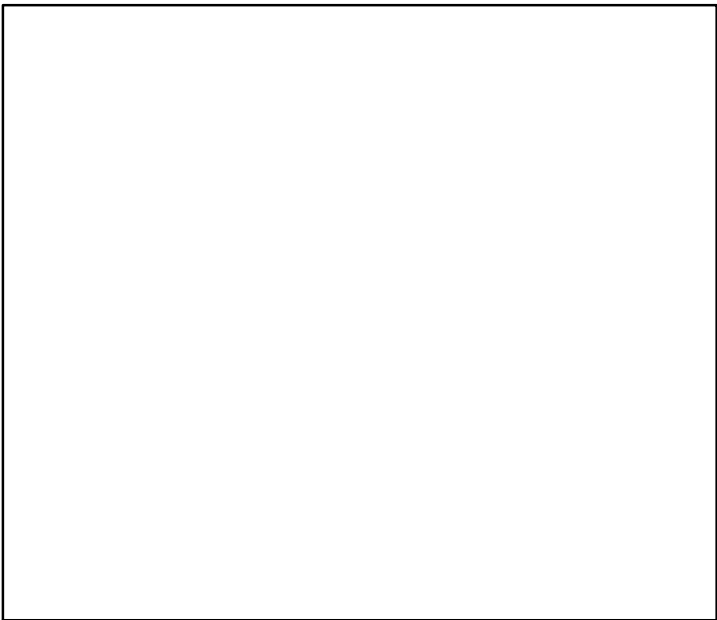
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

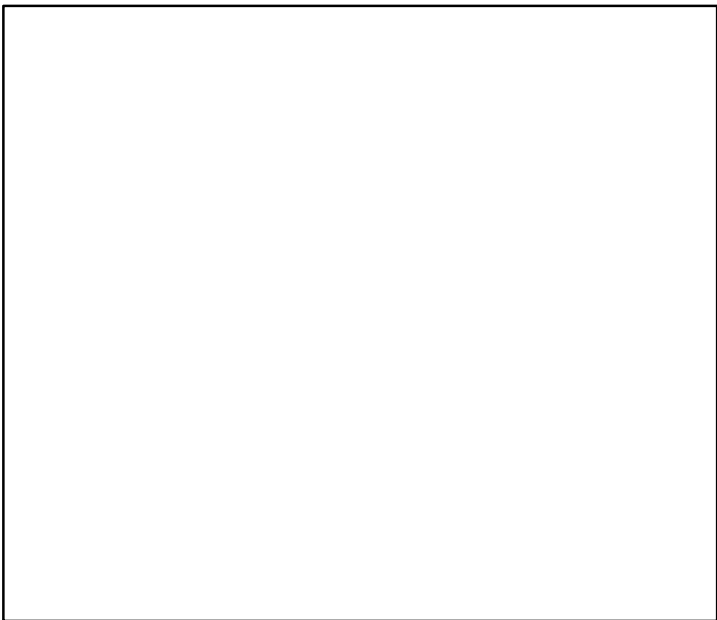
Kobe MSY\*



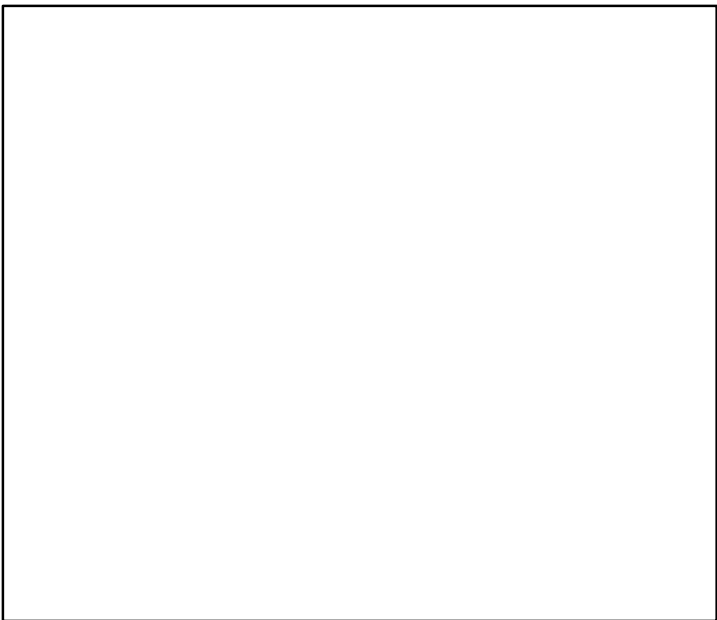
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Anchovy Portuguese Waters –East [ANCHIXa]

TB\*



SSB\*



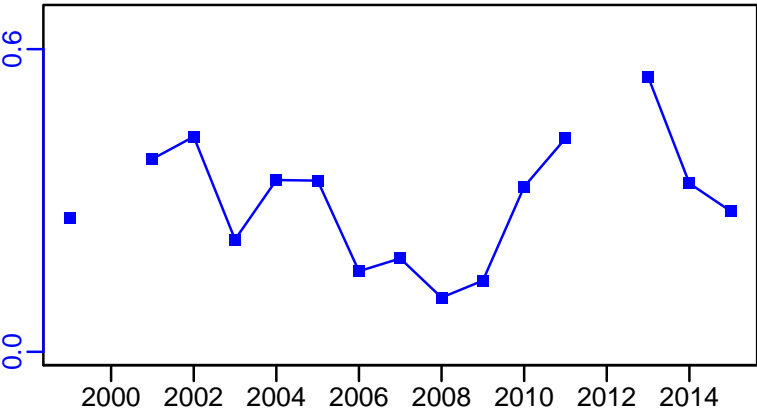
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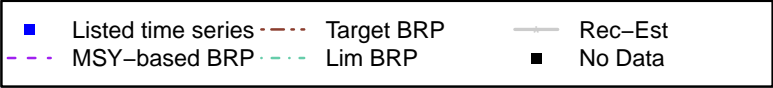
F\*



ER-ratio (1989–2016–ICESIMP2016)

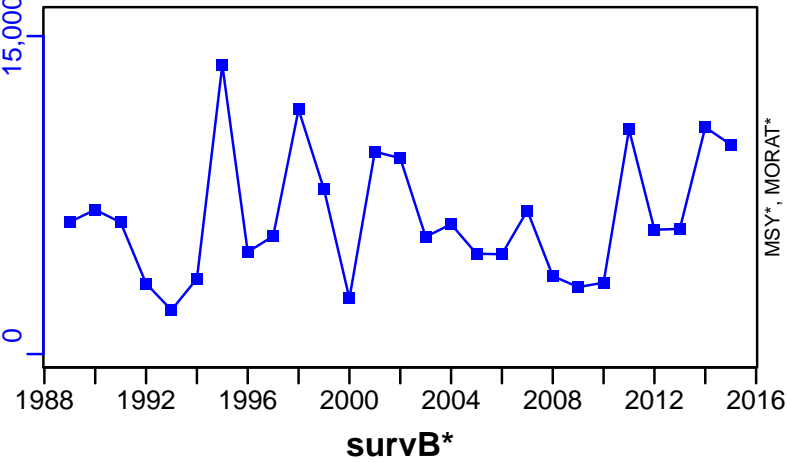


Recruits\*



Anchovy Portuguese Waters –East [ANCHIXa]

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



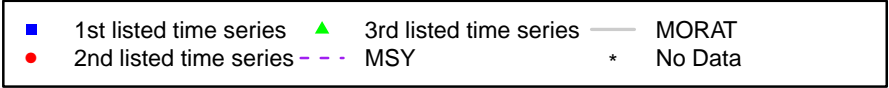
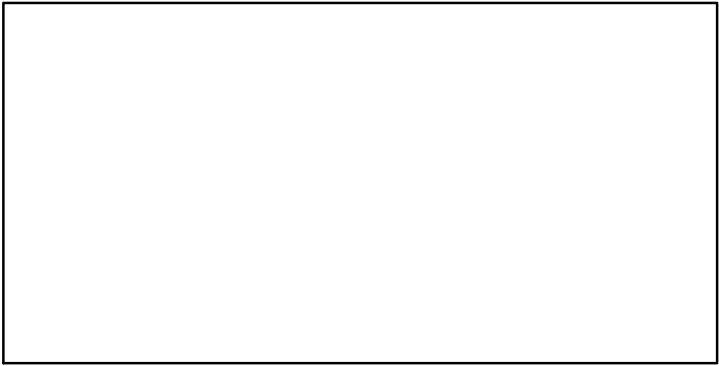
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





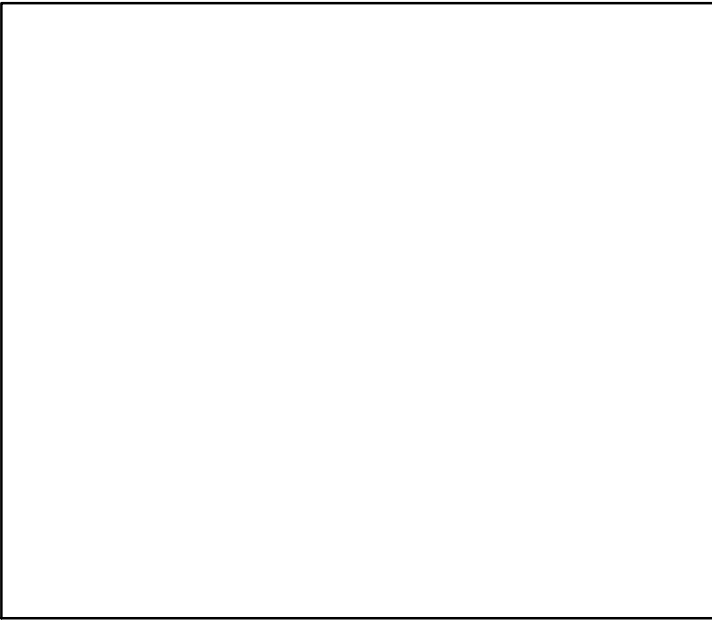
## Anchovy ICES VIII [ANCHOBAYB]

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

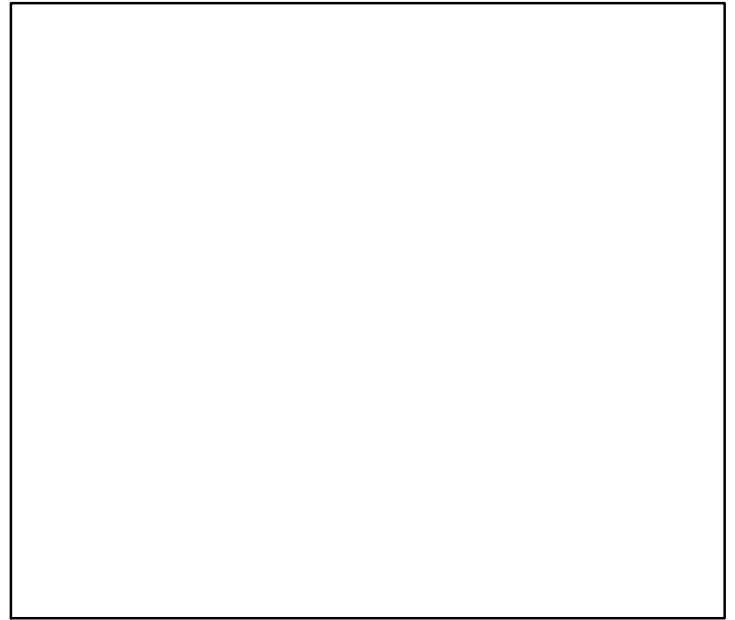
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2013	33,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2007	1.2
<b>TBlim</b>	TBlim-MT	2014	21,000
<b>SSBlim</b>	SSBlim-MT	2015	21,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	66,200	Both	-
<b>SSB</b>	SSB-MT	2015	147,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-MT	2015	134,000	-	1
<b>F</b>	F-1/yr	2014	0.222	-	1+
<b>ER</b>	ER-ratio	2015	0.17	-	-
<b>TC</b>	TC-MT	2015	25,100		
<b>TL</b>	TL-MT	2015	25,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	1.699		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

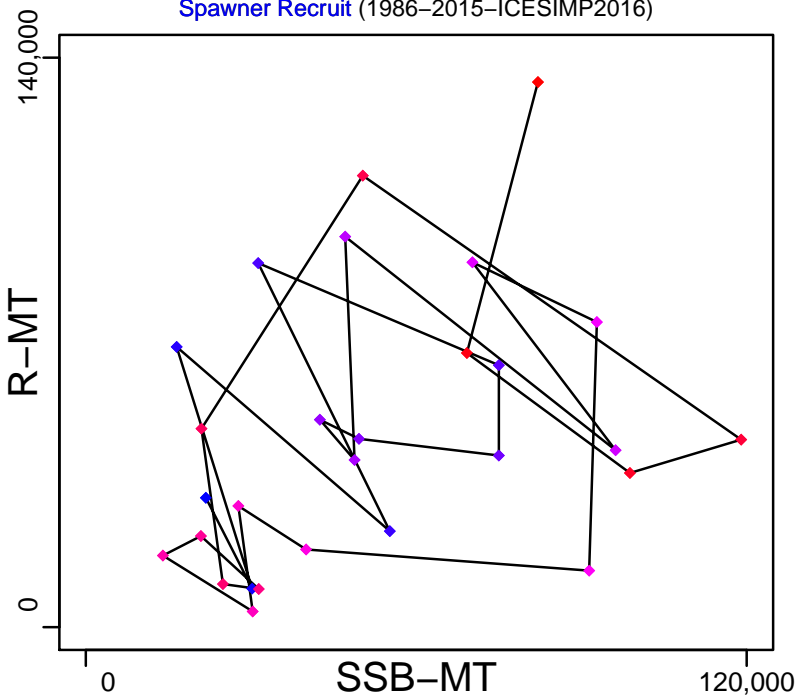
Kobe MSY\*



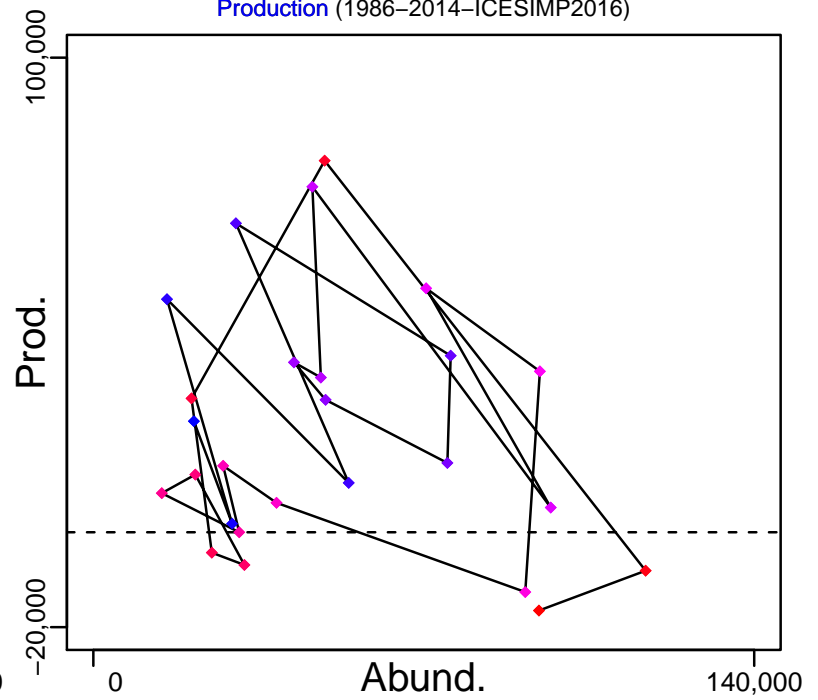
Kobe MGT\*



Spawner Recruit (1986–2015–ICESIMP2016)



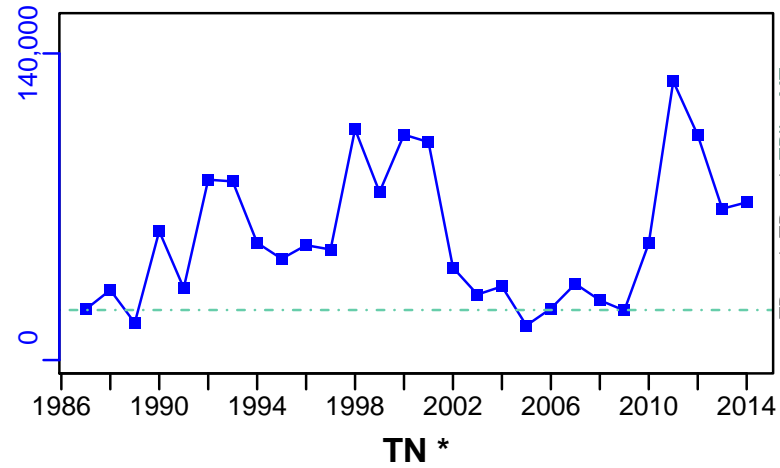
Production (1986–2014–ICESIMP2016)



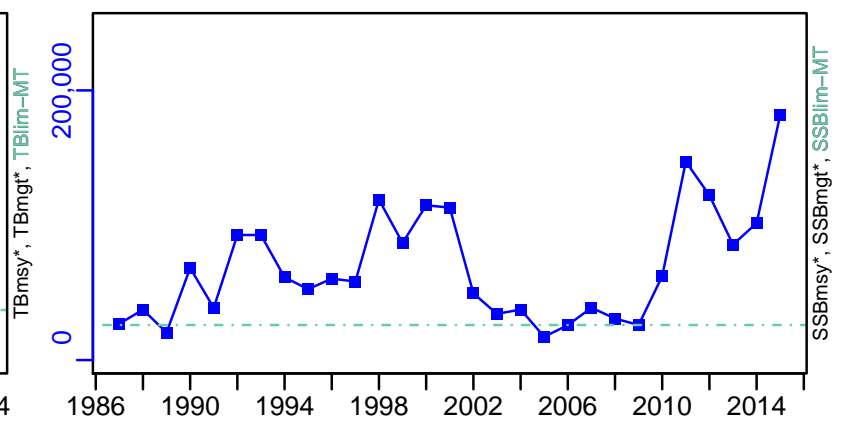
◆ Start Year ◆ End Year \* No Data

# Anchovy ICES VIII [ANCHOBAYB]

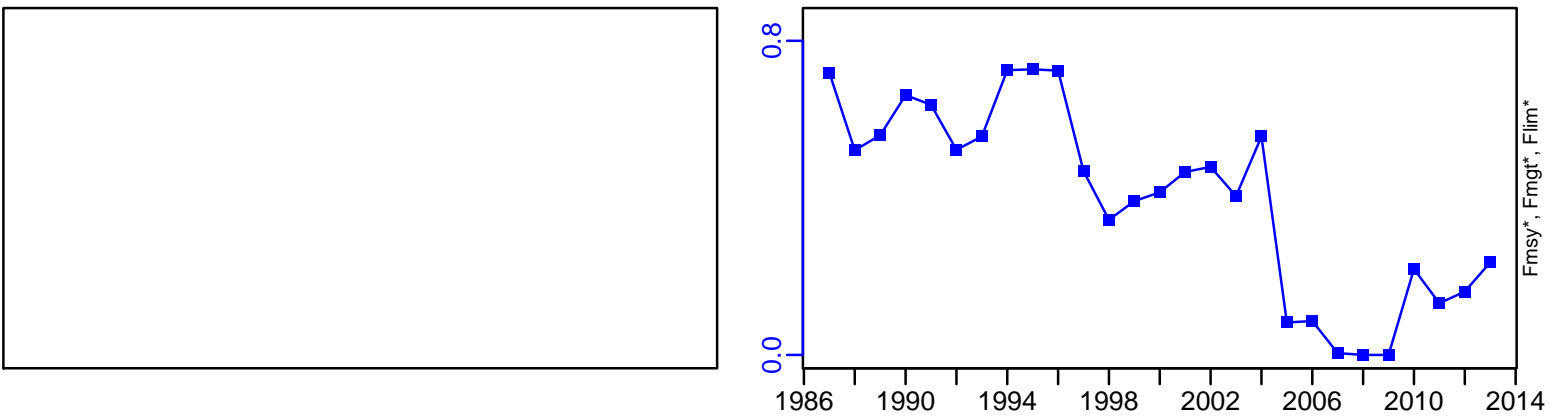
TB-MT (1986–2014–ICESIMP2016)



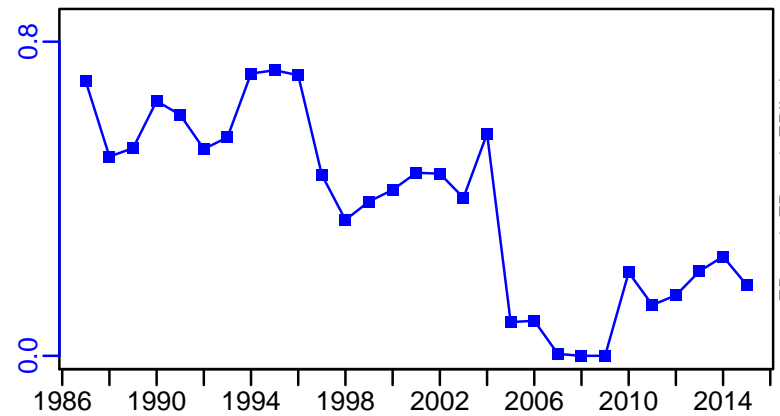
SSB-MT (1986–2015–ICESIMP2016)



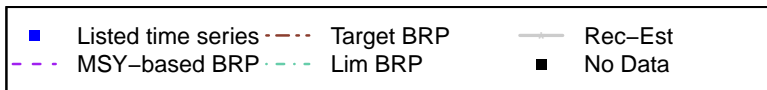
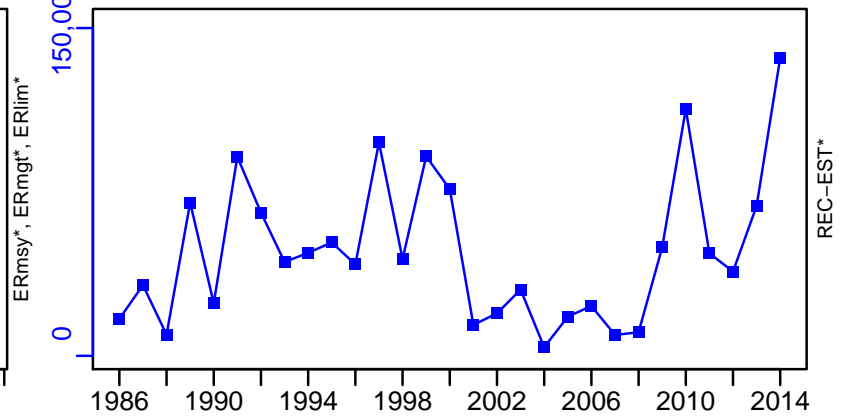
F-1/yr (1986–2014–ICESIMP2016)



ER-ratio (1986–2015–ICESIMP2016)



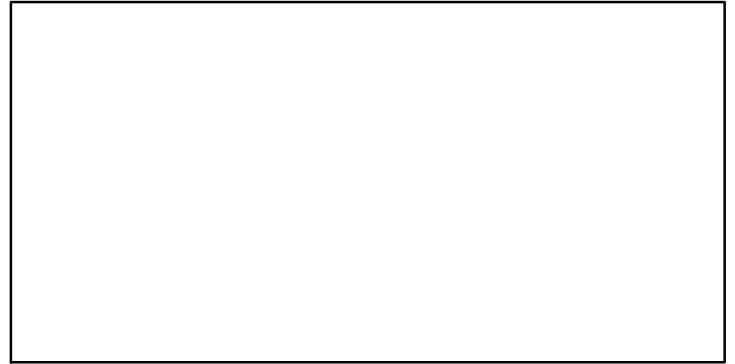
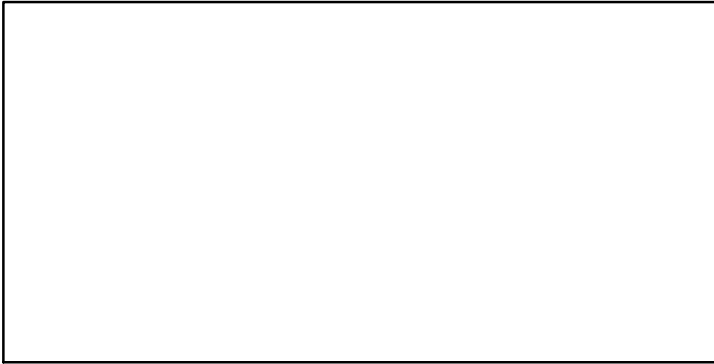
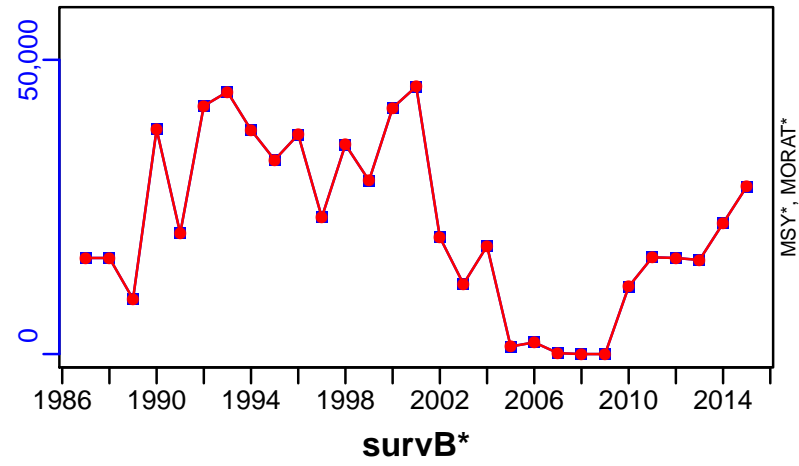
R-MT (1986–2015–ICESIMP2016)



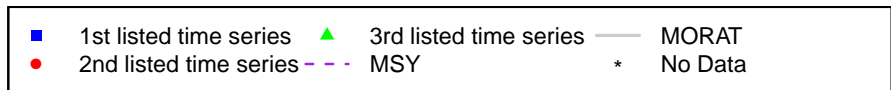
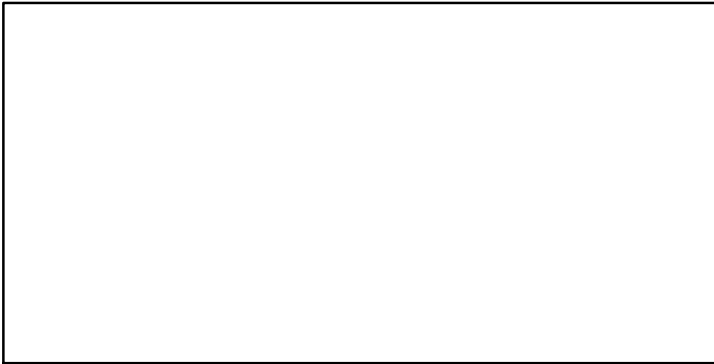
# Anchovy ICES VIII [ANCHOBAYB]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

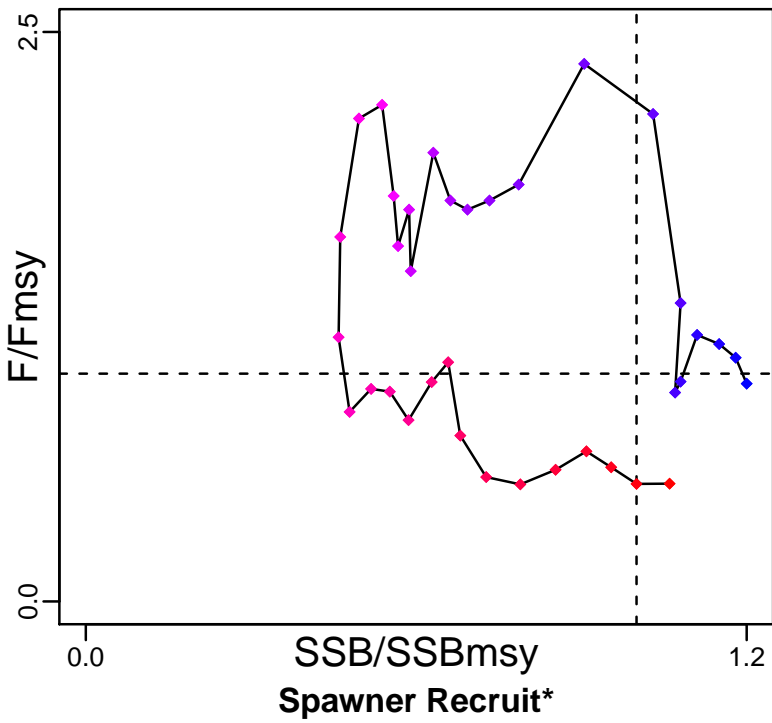
Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	WGBIE-ANGLVIIIc-IXa-1980-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion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

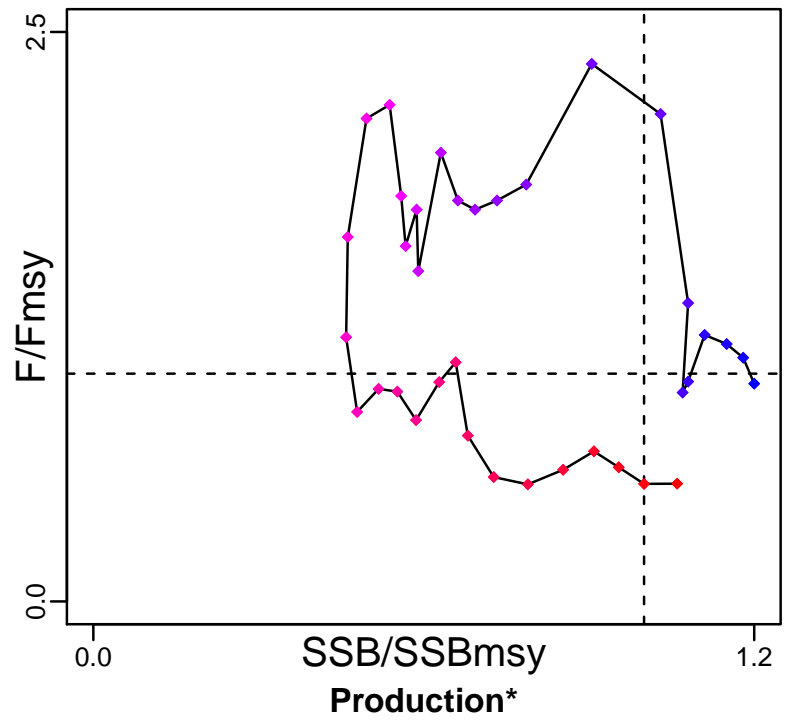
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1040		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	1.11		
F/Fmsy	FdivFmsy-dimensionless	2016	0.517		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
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\*



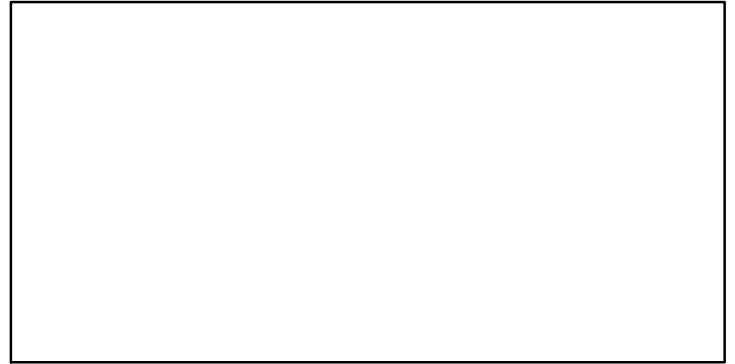
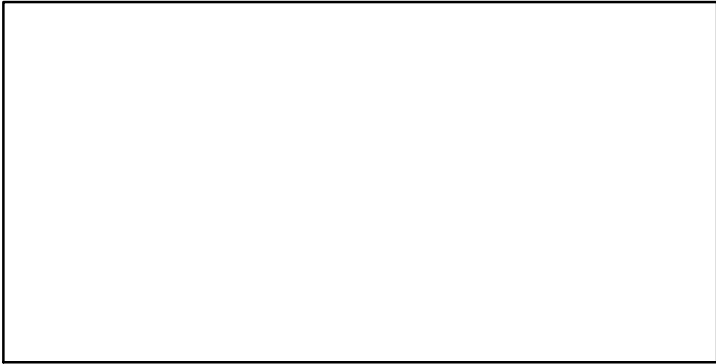
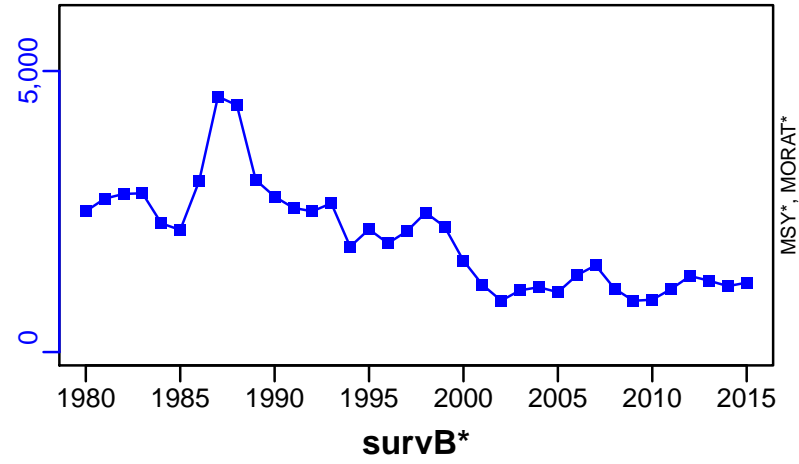
Recruits\*



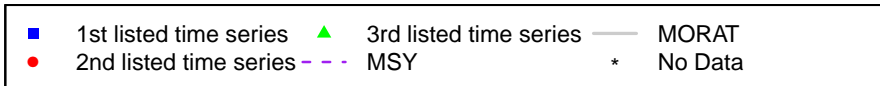
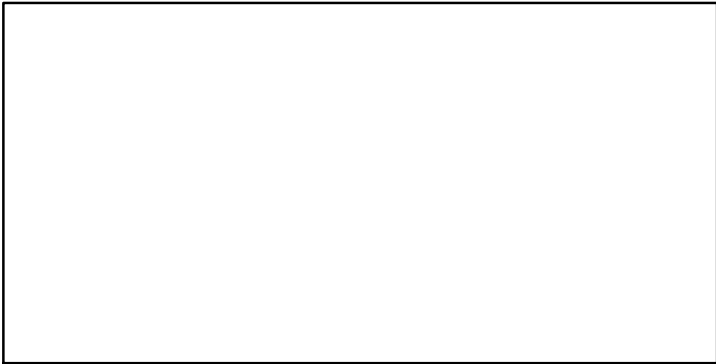
# Black bellied angler VIIIc-IXa [ANGLVIIIc-IXa]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





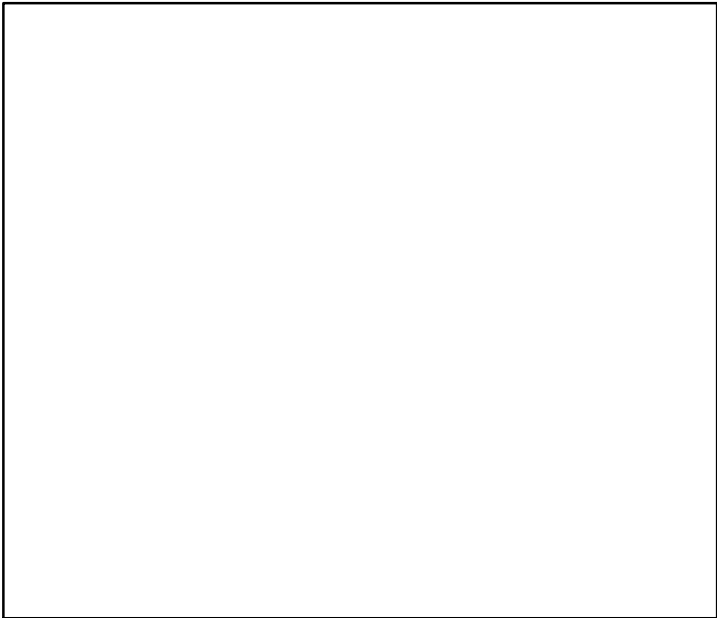
## Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	WGBIE-ANGLVII-VIIIabd-1986-2016-ICESIMP2016
<b>Area</b>	VII and VIIIabd
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

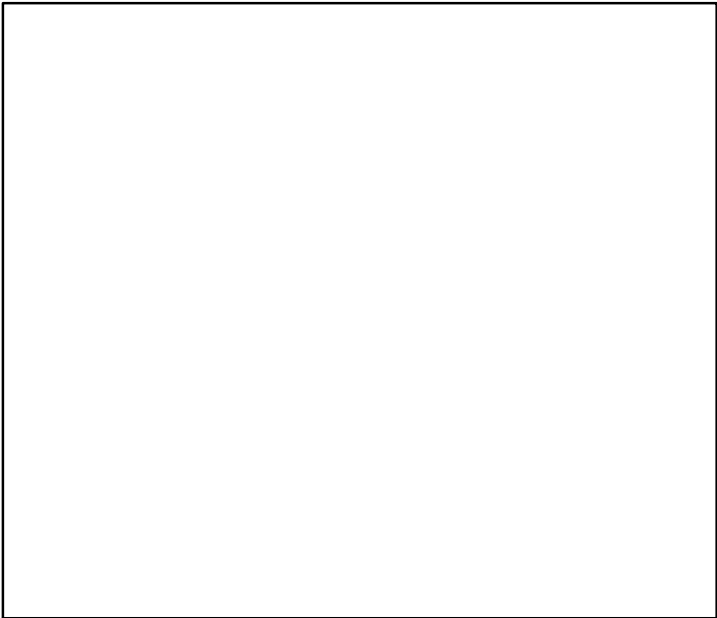
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	10,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

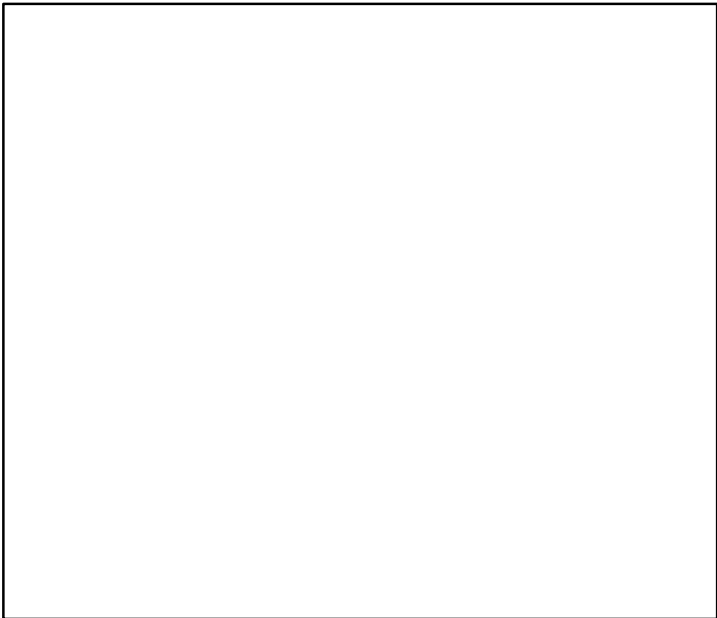
Kobe MSY\*



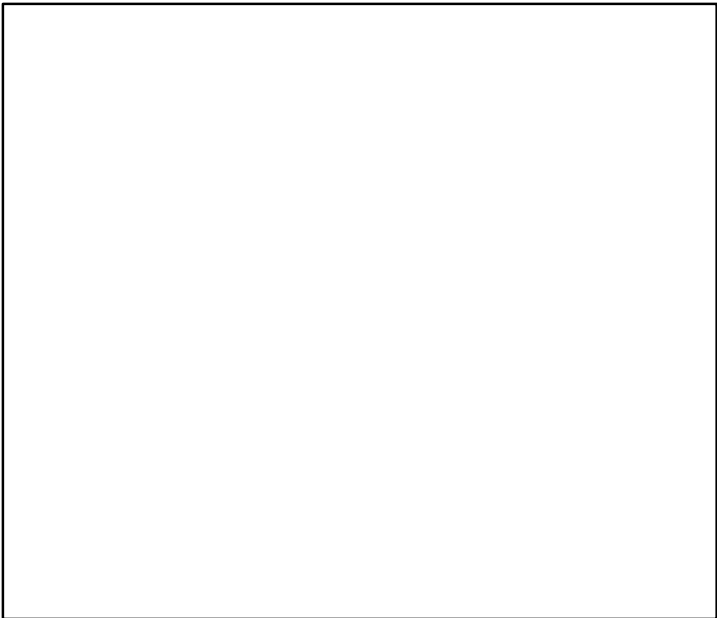
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]

TB\*



SSB\*



TN \*



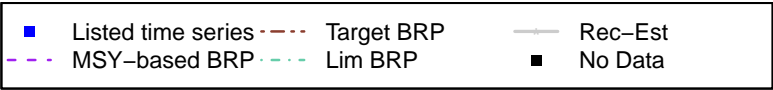
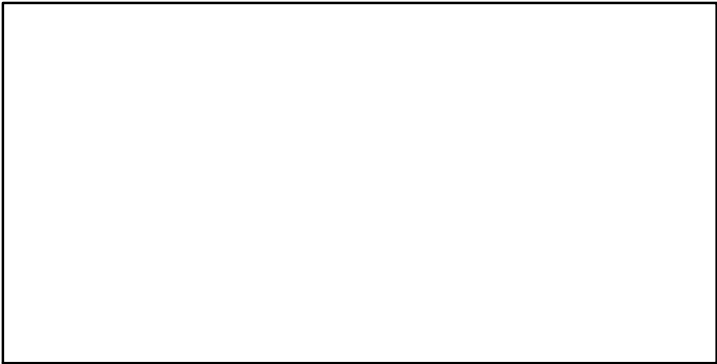
F\*



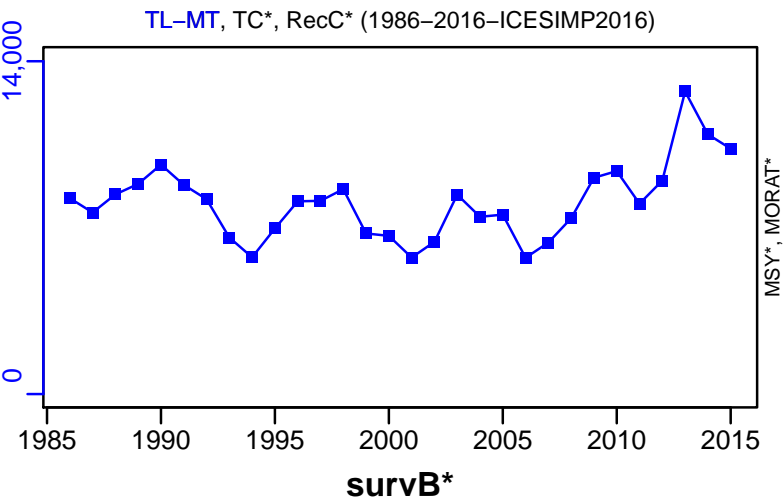
ER\*



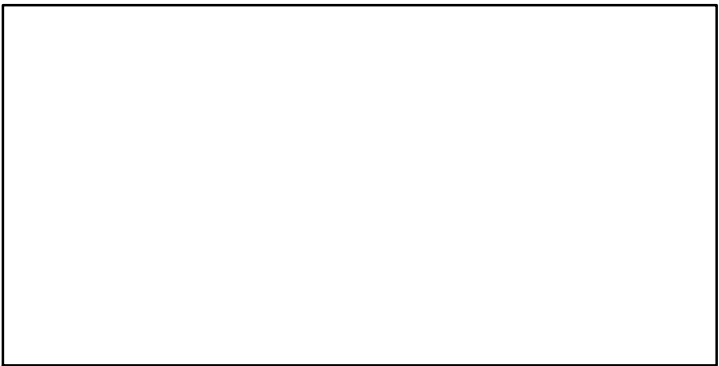
Recruits\*



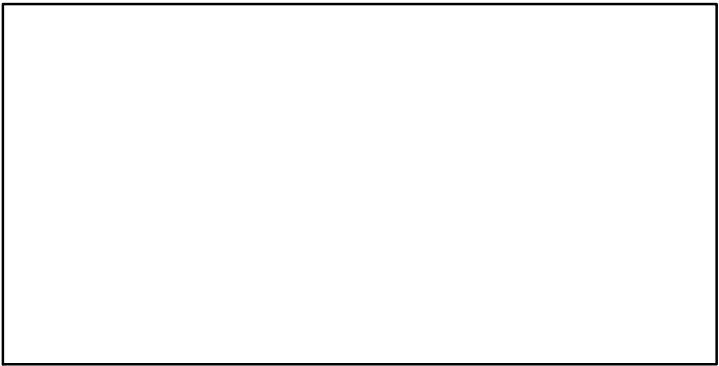
Black bellied angler VII and VIIIabd [ANGLVII-VIIIabd]



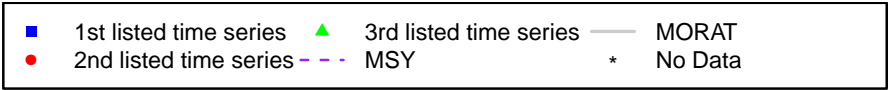
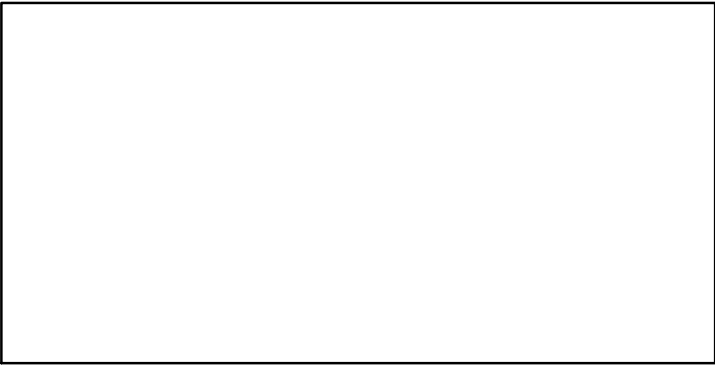
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



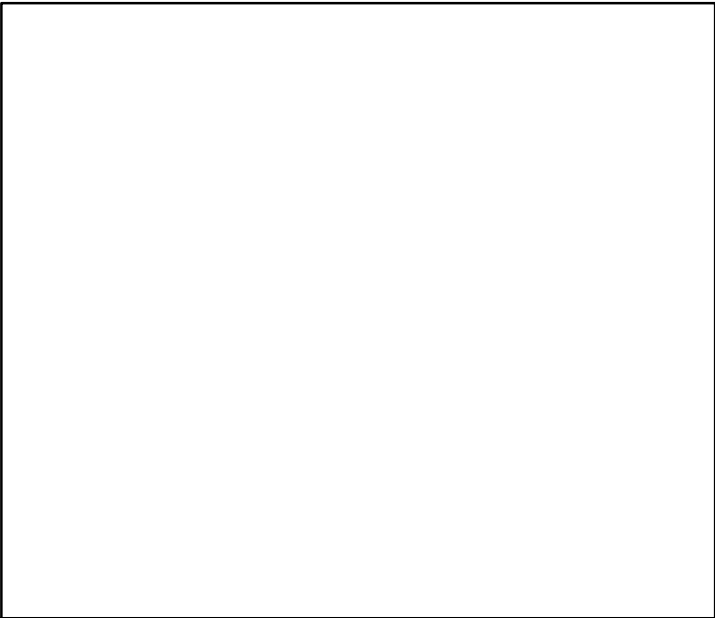
## Blue jack mackerel Azores (Xa2) [BJMACKXa2]

Metadata	
<b>Scientific Name</b>	Trachurus picturatus
<b>Current Assess ID</b>	WGHANSA-BJMACKXa2-1978-2016-ICESIMP2016
<b>Area</b>	Azores (Xa2)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Southern Horse Mackerel, Anchovy and Sardine
<b>Asmts in RAM</b>	2016

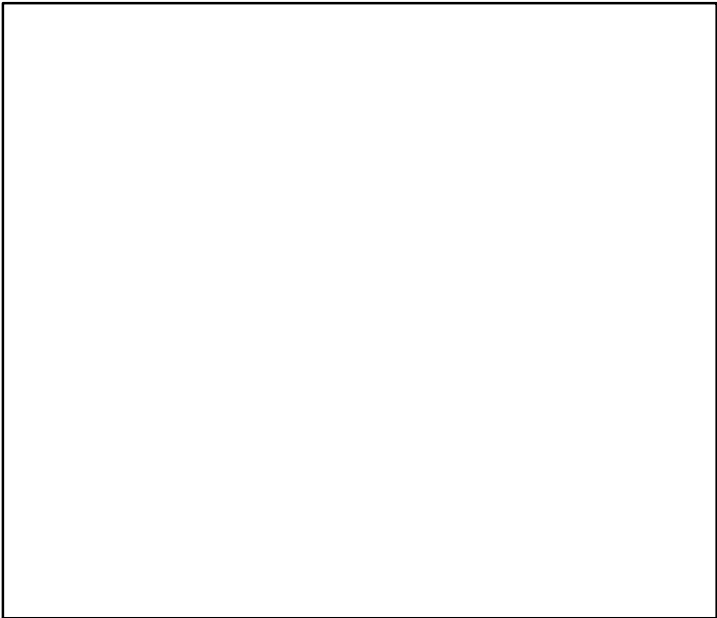
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

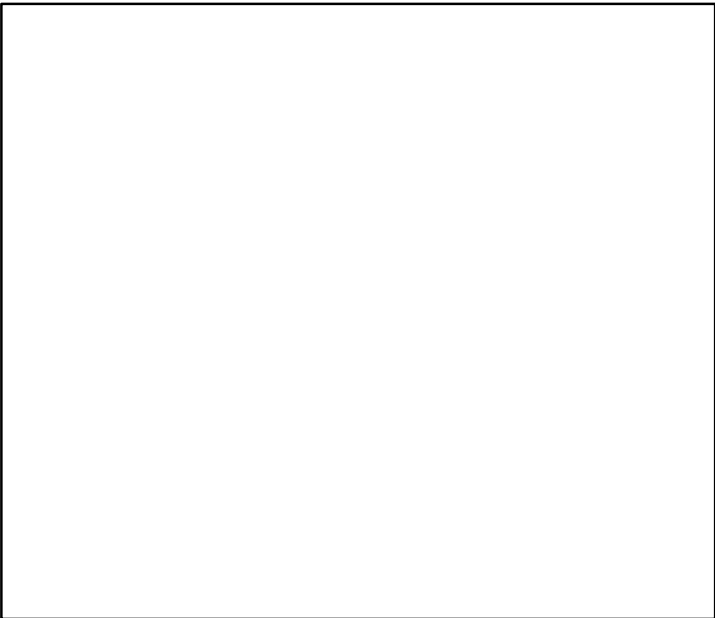
Kobe MSY\*



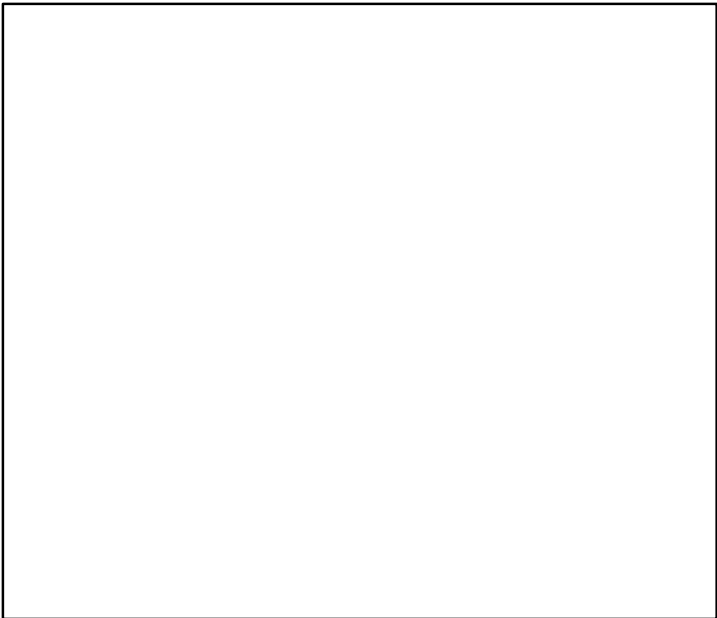
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Blue jack mackerel Azores (Xa2) [BJMACKXa2]

TB\*



SSB\*



TN \*



F\*



ER\*

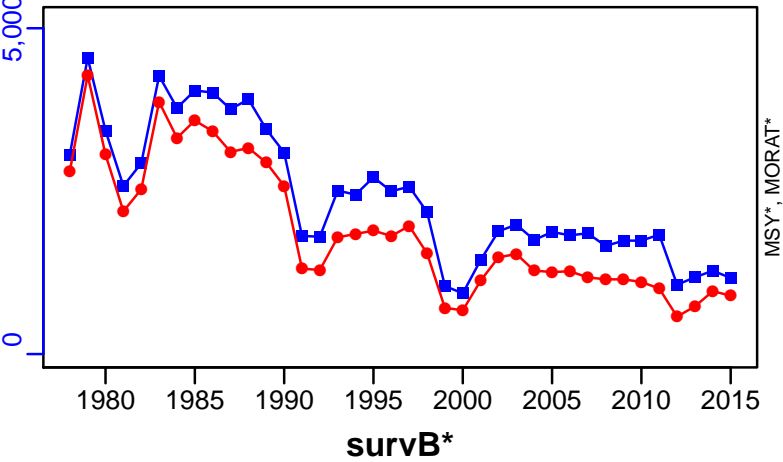


Recruits\*



Blue jack mackerel Azores (Xa2) [BJMACKXa2]

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



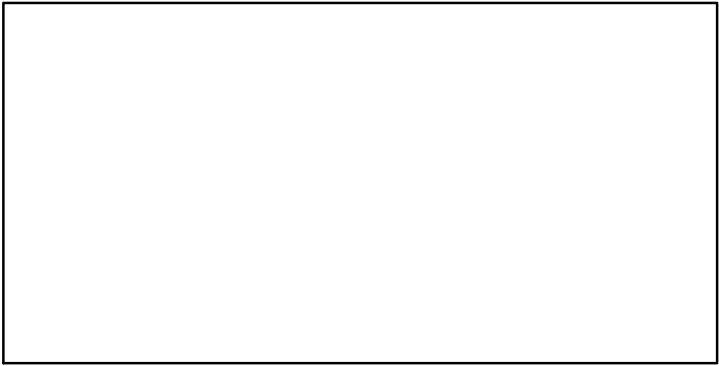
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





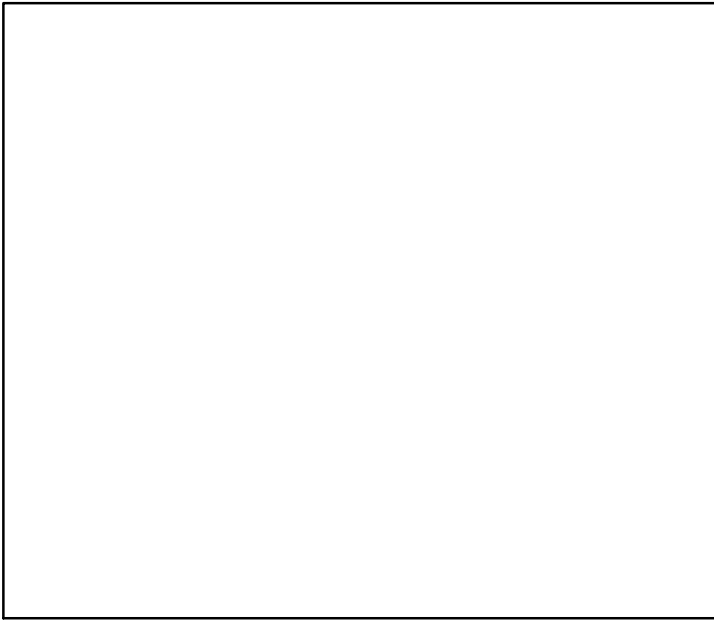
## Blue ling I-II-IIIa-IVa-VIII-IX-XII [BLINGI-II-IIIa-IVa-VIII-IX-XII]

Metadata	
<b>Scientific Name</b>	Molva dypterygia
<b>Current Assess ID</b>	WGDEEP-BLINGI-II-IIIa-IVa-VIII-IX-XII-1988-2015-ICESIMP2016
<b>Area</b>	I-II-IIIa-IVa-VIII-IX-XII
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2015

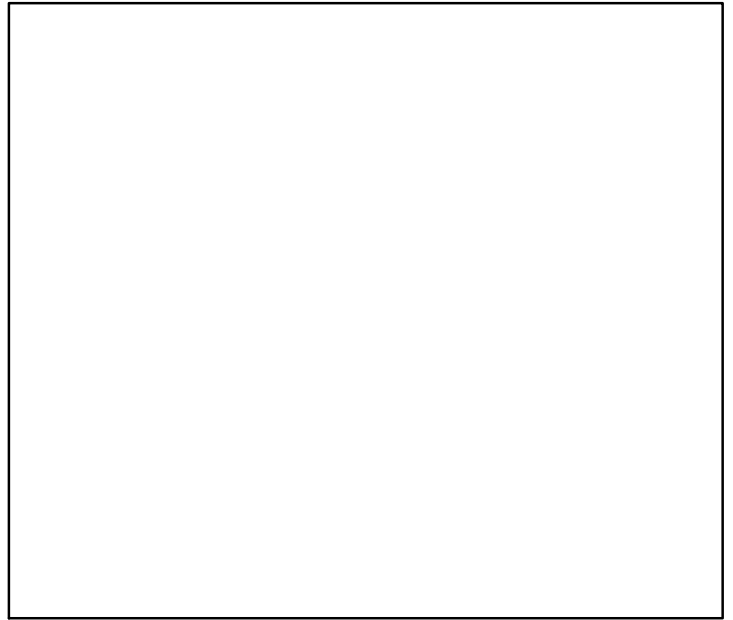
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

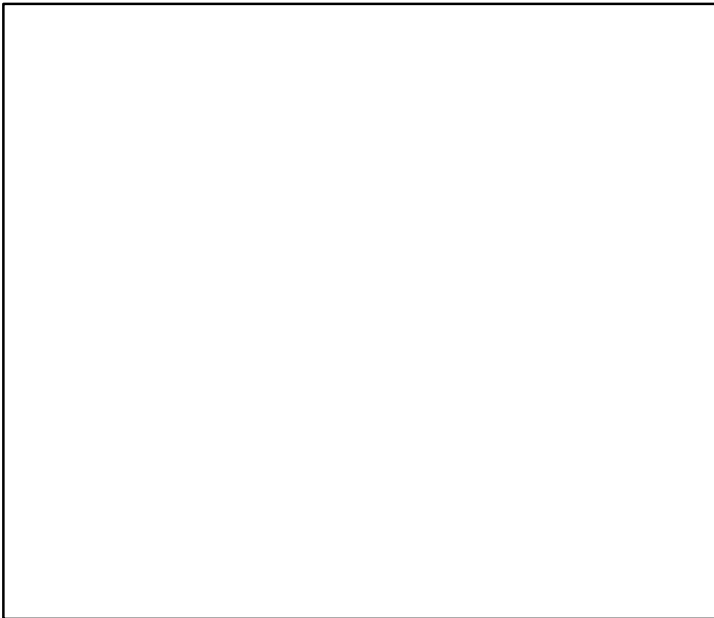
**Kobe MSY\***



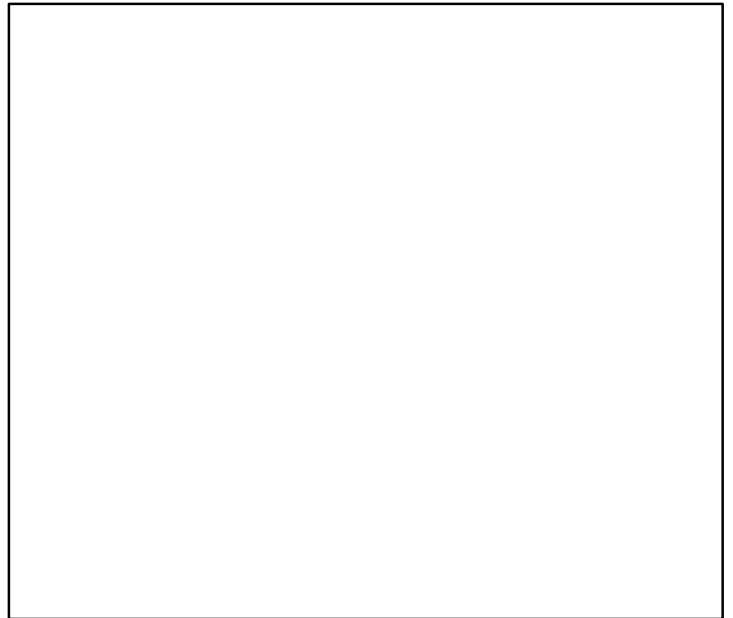
**Kobe MGT\***



**Spawner Recruit\***



**Production\***

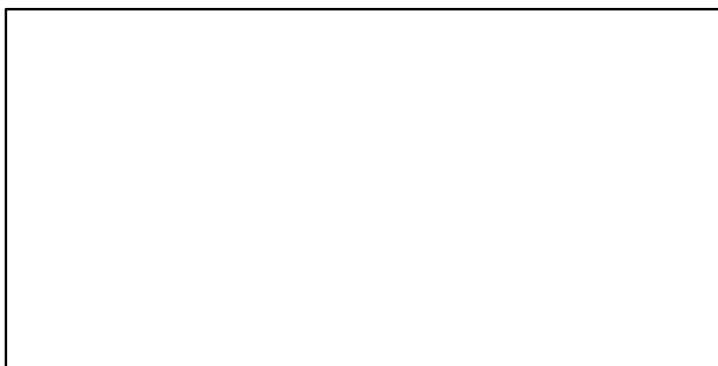


◆ Start Year ◆ End Year \* No Data

**TB\***



**SSB\***



**TN \***



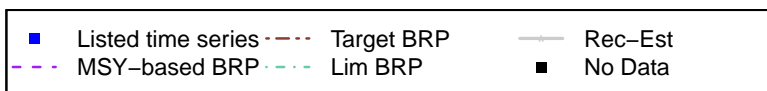
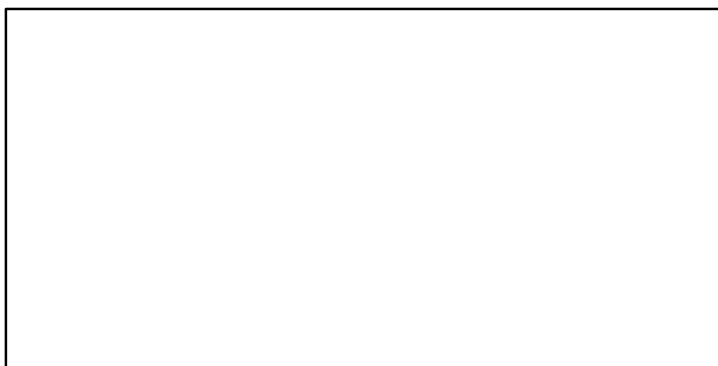
**F\***



**ER\***

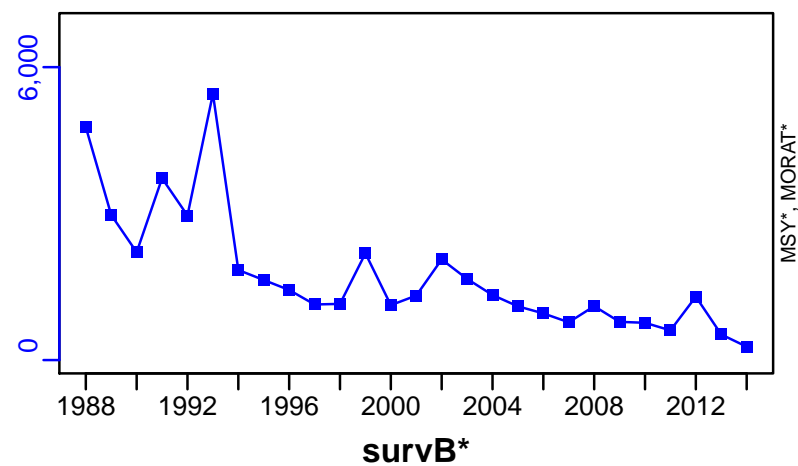


**Recruits\***

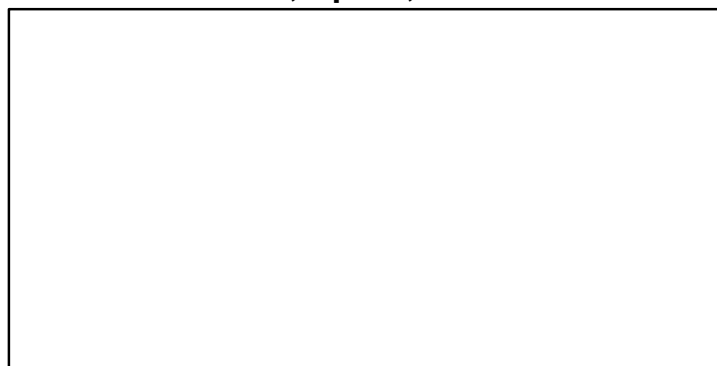


# Blue ling I-II-IIIa-IVa-VIII-IX-XII [BLINGI-II-IIIa-IVa-VIII-IX-XII]

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



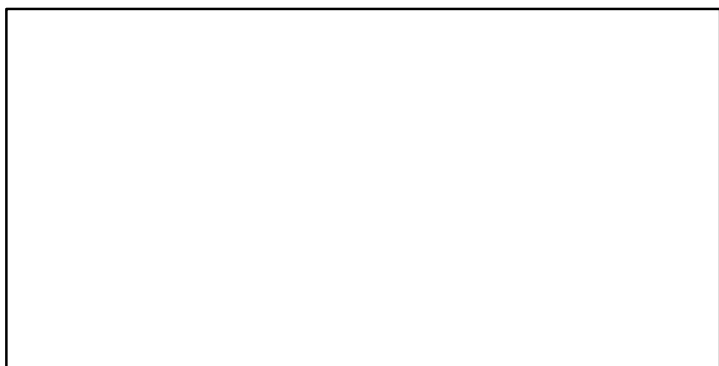
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

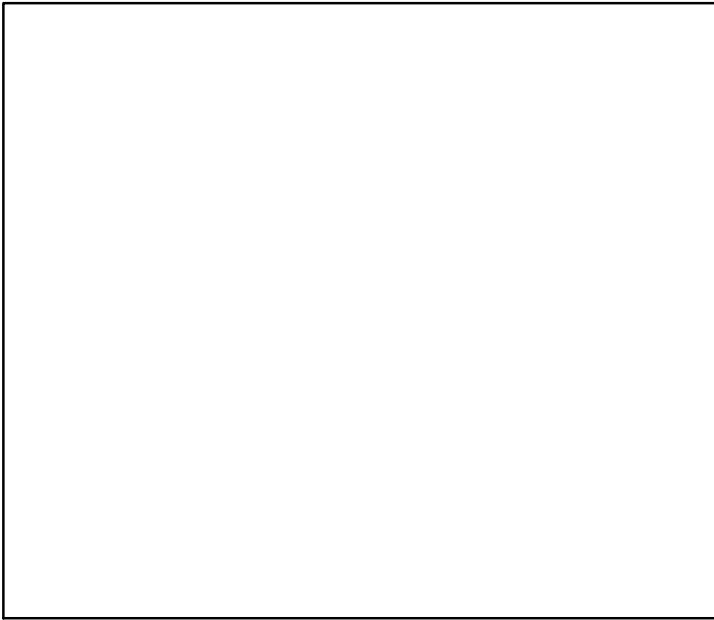
## Boarfish VI and VIII [BOARVI-VIII]

Metadata	
<b>Scientific Name</b>	Capros aper
<b>Current Assess ID</b>	WGWIDE-BOARVI-VIII-2001-2015-ICESIMP2016
<b>Area</b>	VI and VIII
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed Stocks
<b>Asmts in RAM</b>	2013, 2014, 2015

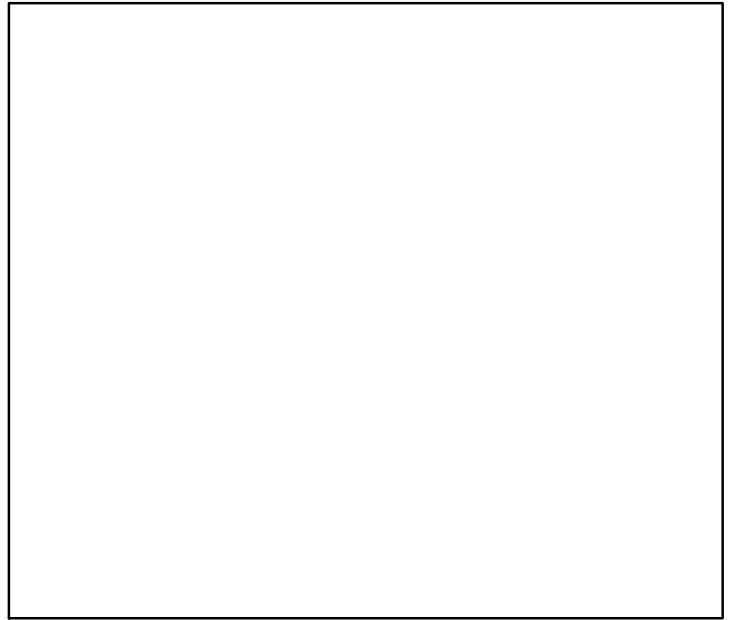
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-relative	2015	1.85	-	1 to 14
ER	-	-	-	-	-
TC	TC-MT	2015	45,200		
TL	TL-MT	2015	43,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

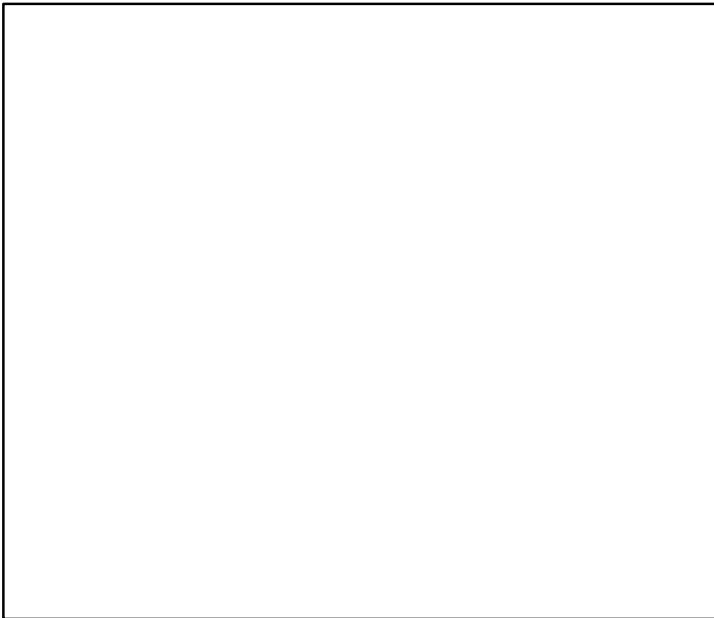
**Kobe MSY\***



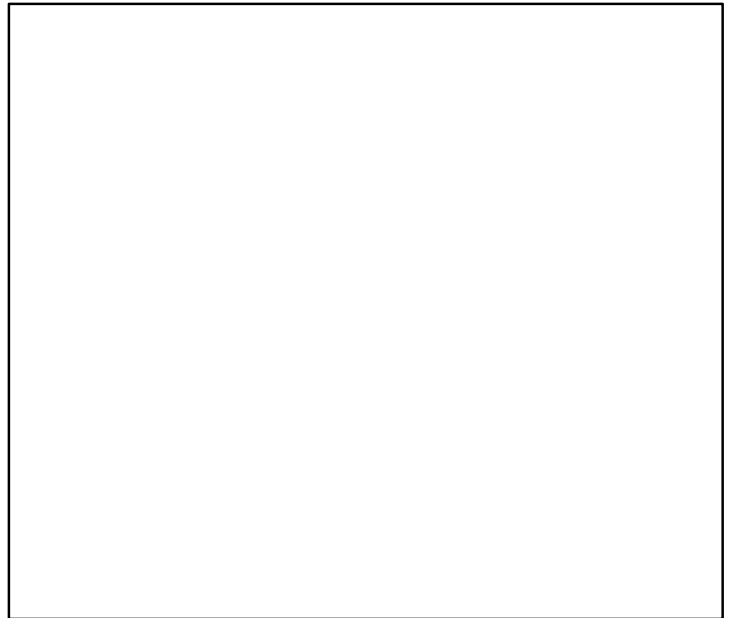
**Kobe MGT\***



**Spawner Recruit\***



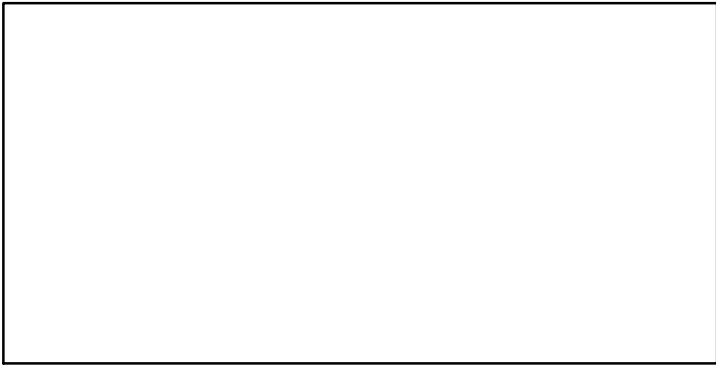
**Production\***



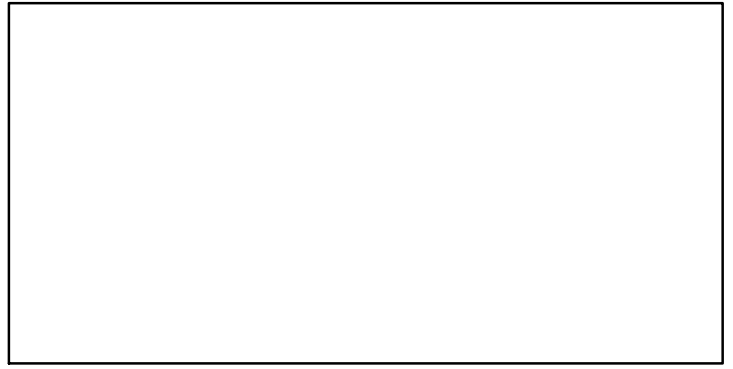
◆ Start Year   ◆ End Year   \* No Data

# Boarfish VI and VIII [BOARVI–VIII]

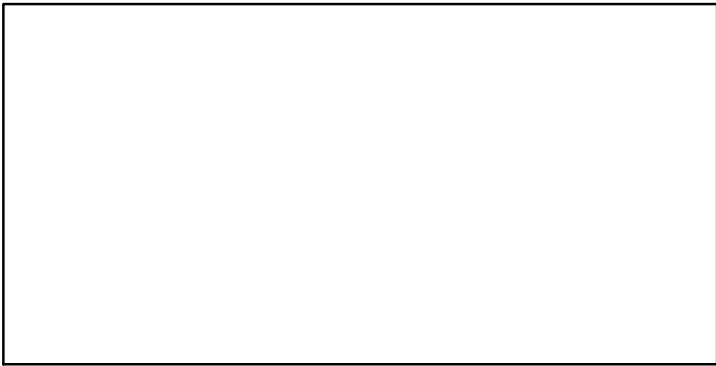
TB\*



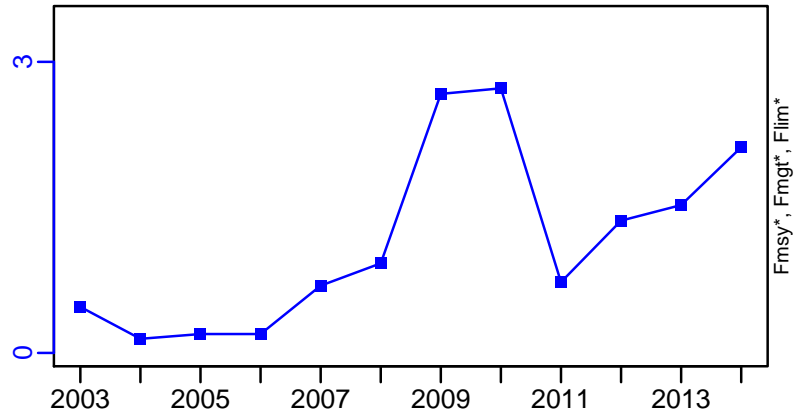
SSB\*



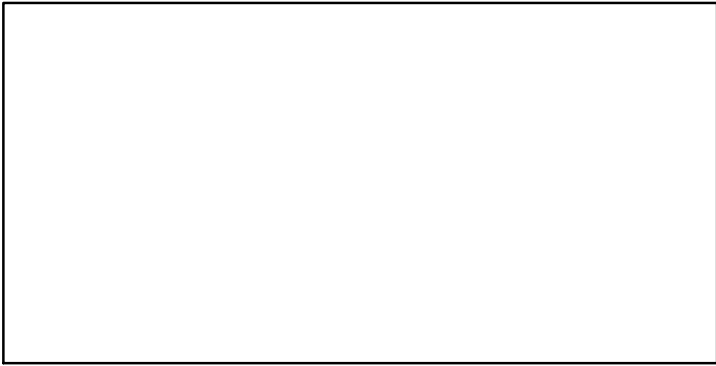
TN \*



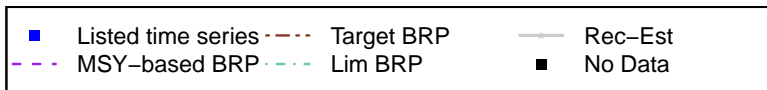
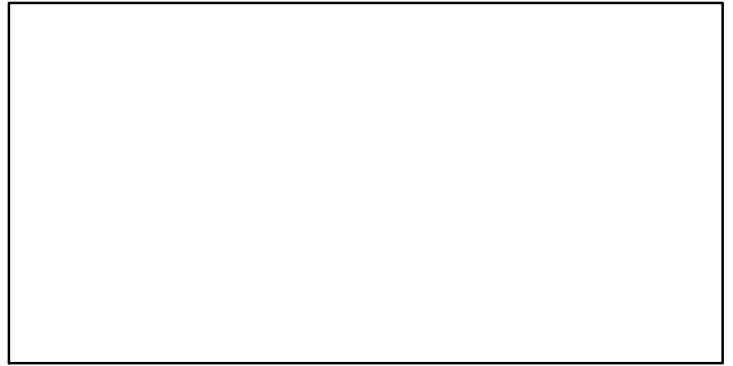
F<sub>relative</sub> (2001–2015–ICESIMP2016)



ER\*



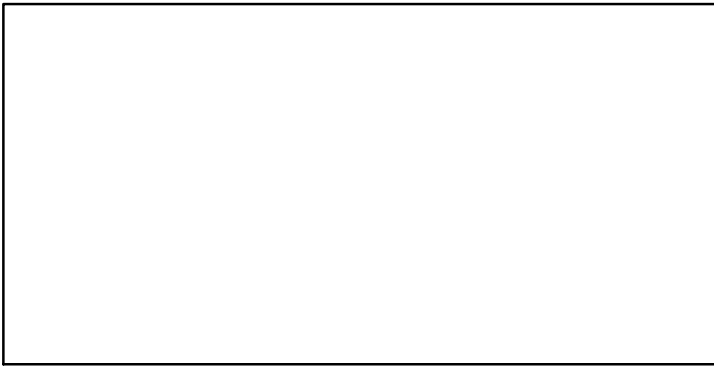
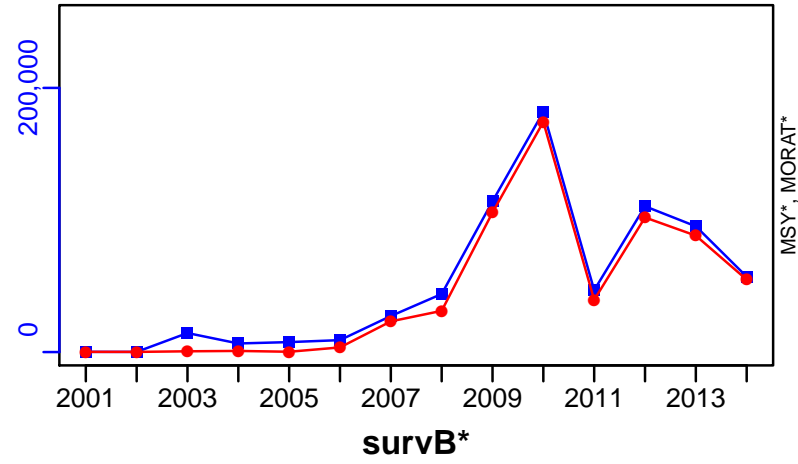
Recruits\*



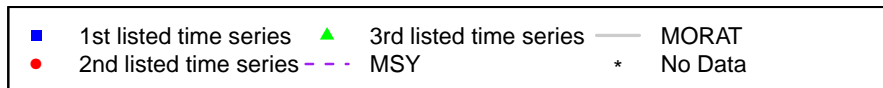
# Boarfish VI and VIII [BOARVI–VIII]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





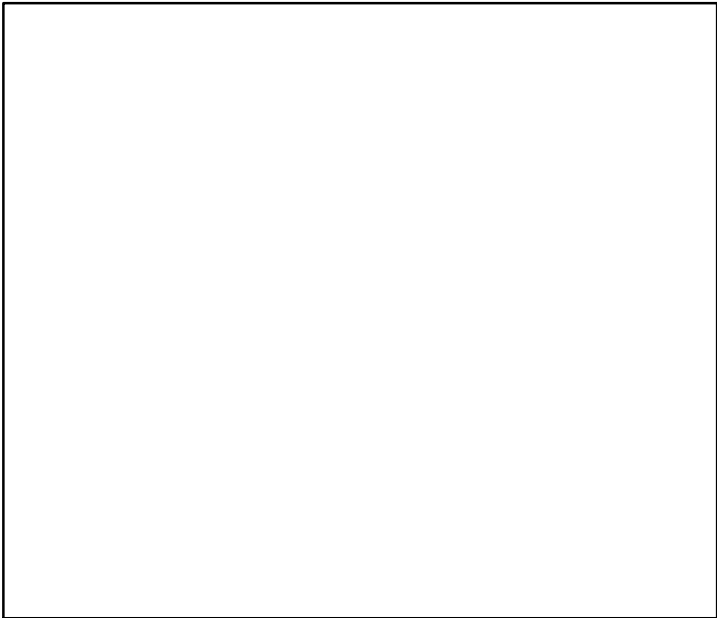
## Brill Baltic Areas 22-32 [BRILL2232]

Metadata	
<b>Scientific Name</b>	Scophthalmus rhombus
<b>Current Assess ID</b>	WGBFAS-BRILL2232-1970-2016-ICESIMP2016
<b>Area</b>	Baltic Areas 22-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

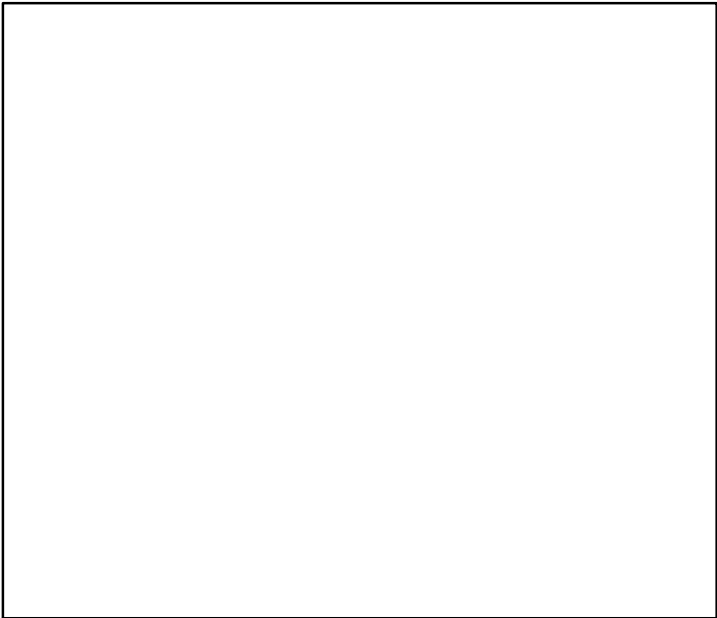
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

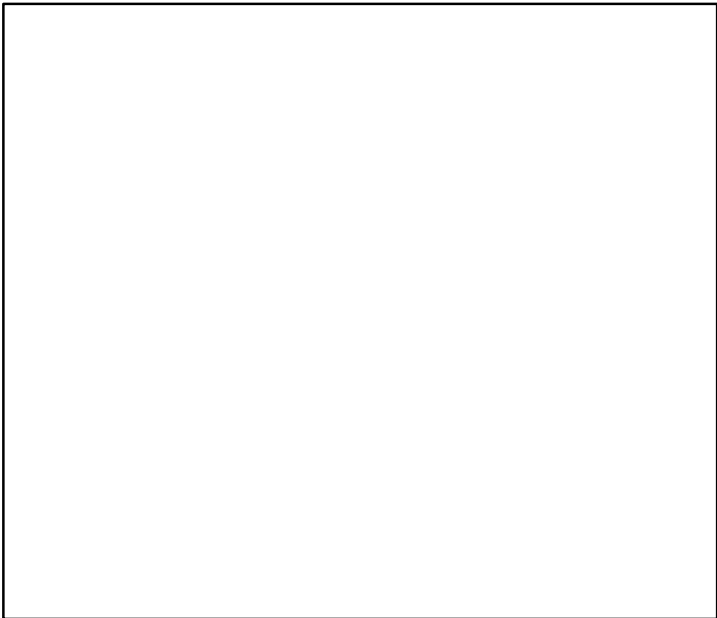
Kobe MSY\*



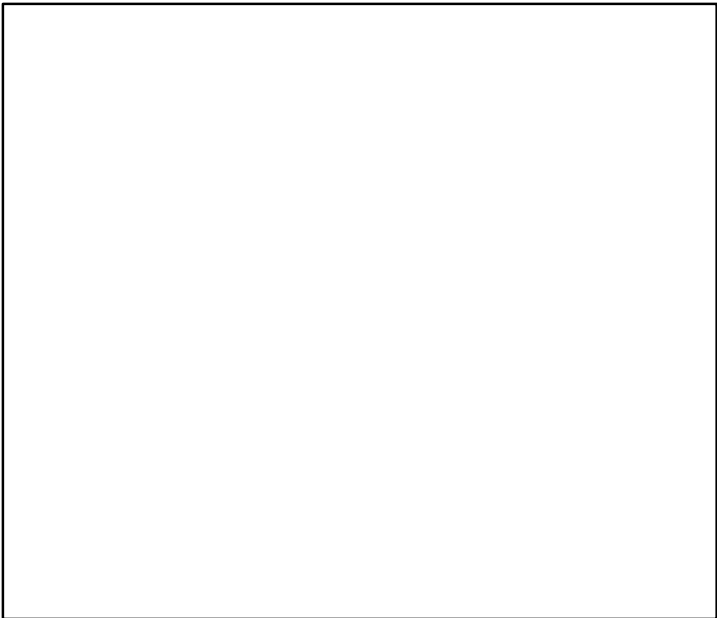
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

**TB\***



**SSB\***



**TN \***



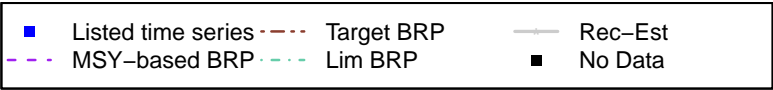
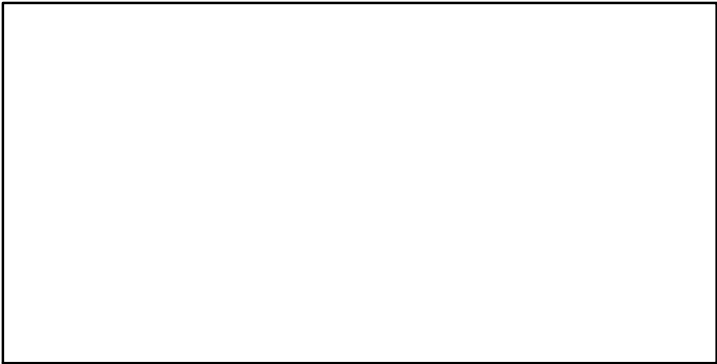
**F\***



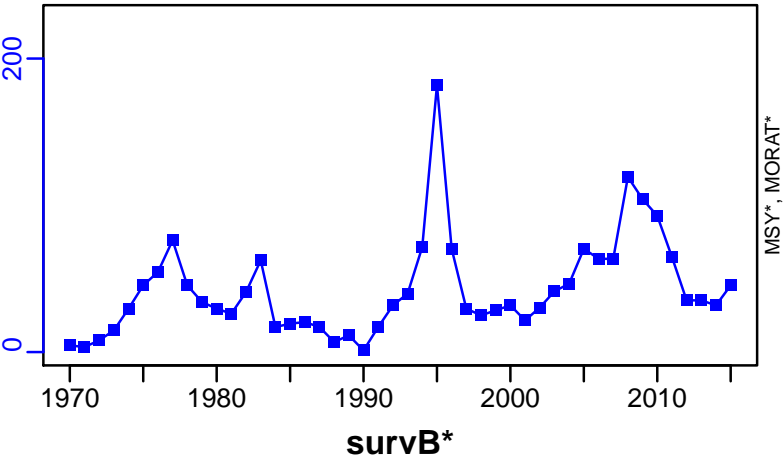
**ER\***



**Recruits\***



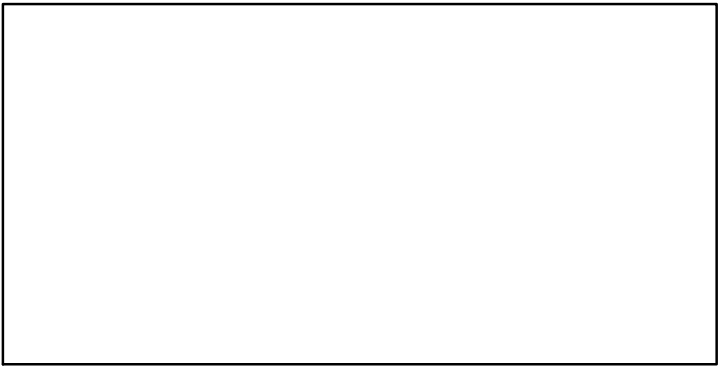
TL–MT, TC\*, RecC\* (1970–2016–ICESIMP2016)



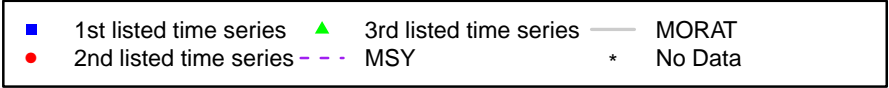
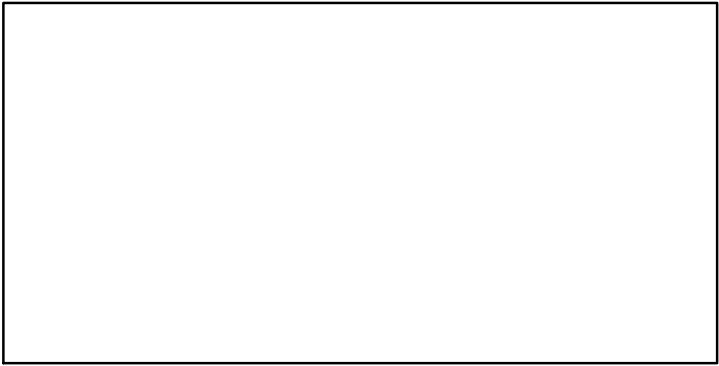
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Blue Whiting Northeast Atlantic [BWHITNEA]

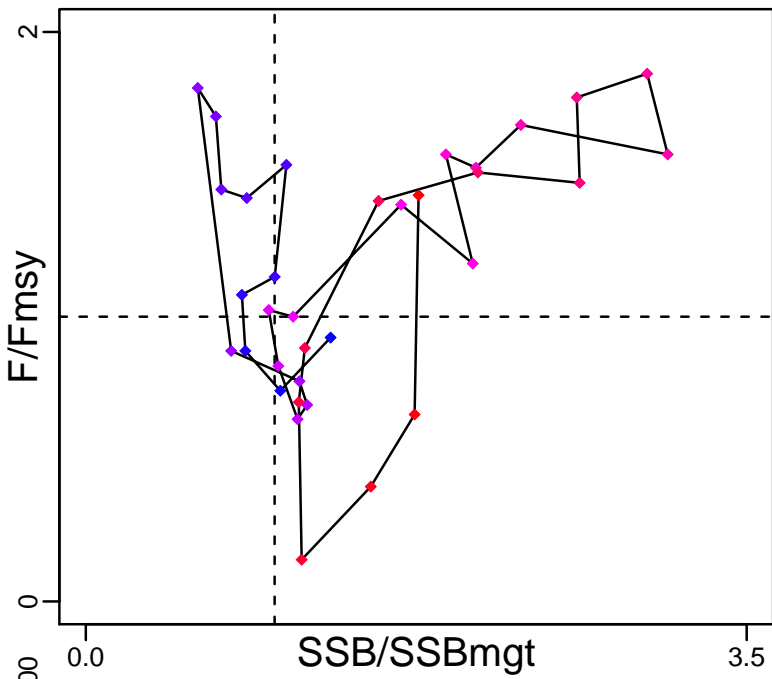
Metadata	
<b>Scientific Name</b>	Micromesistius poutassou
<b>Current Assess ID</b>	WGWISE-BWHITNEA-1980-2015-ICESIMP2016
<b>Area</b>	Northeast Atlantic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed Stocks
<b>Asmts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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.3
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2015	2,250,000
<b>Fmgt</b>	Fmgt-1/yr	2015	0.3
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	1,500,000
<b>Flim</b>	Flim-1/yr	2015	0.48
<b>ERlim</b>	-	-	-

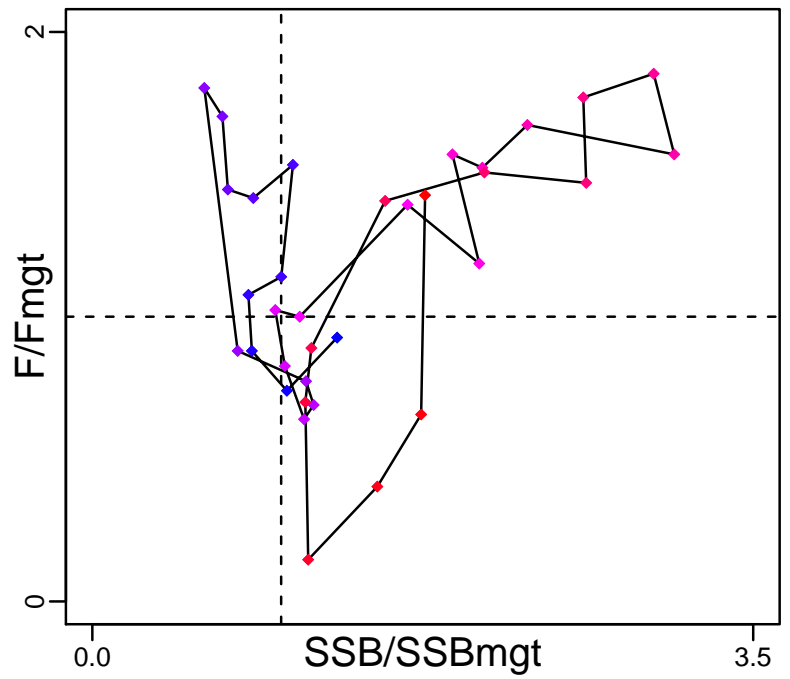
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	5,320,000	Both	-
<b>SSB</b>	SSB-MT	2015	3,620,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$2.33 \times 10^{10}$	-	1
<b>F</b>	F-1/yr	2015	0.428	-	3 to 7
<b>ER</b>	ER-calc-ratio	2015	0.216	-	-
<b>TC</b>	TC-MT	2015	1,150,000		
<b>TL</b>	TL-MT	2014	614,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	1.427		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2015	1.608		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.427		
<b>ER/ERmgt</b>	-	-	-		

# Blue Whiting Northeast Atlantic [BWHITNEA]

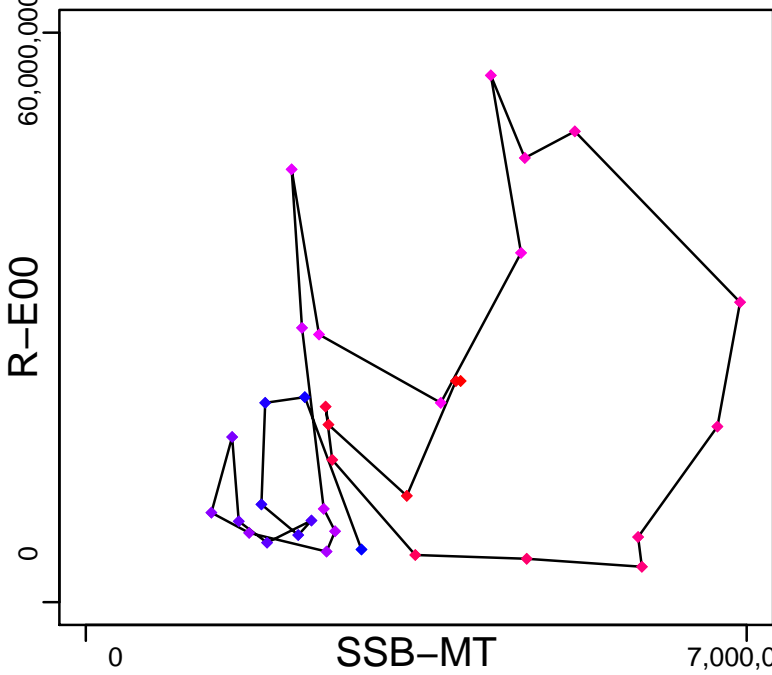
Kobe MSYpref (1980–2015–ICESIMP2016)



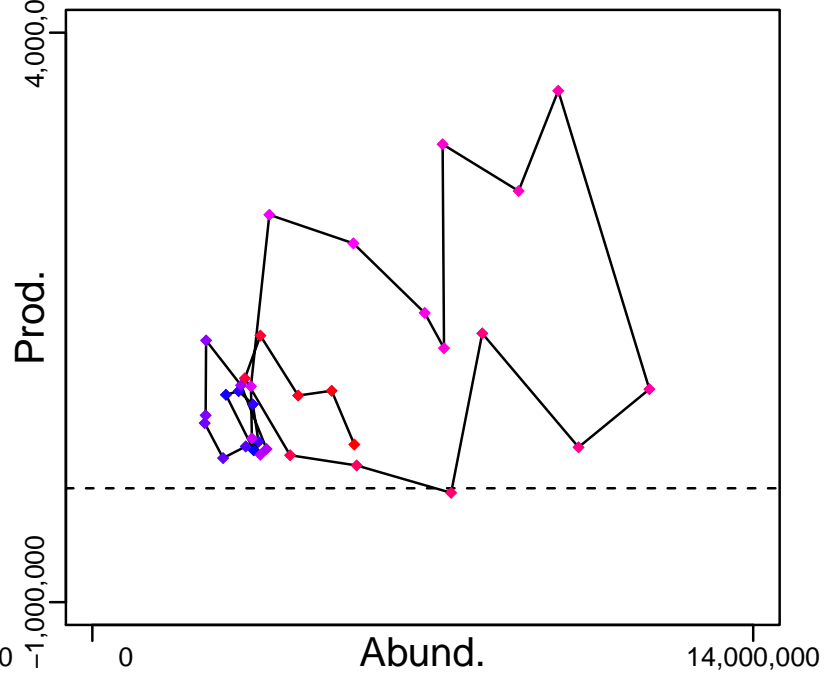
Kobe MGTpref (1980–2015–ICESIMP2016)



Spawner Recruit (1980–2015–ICESIMP2016)

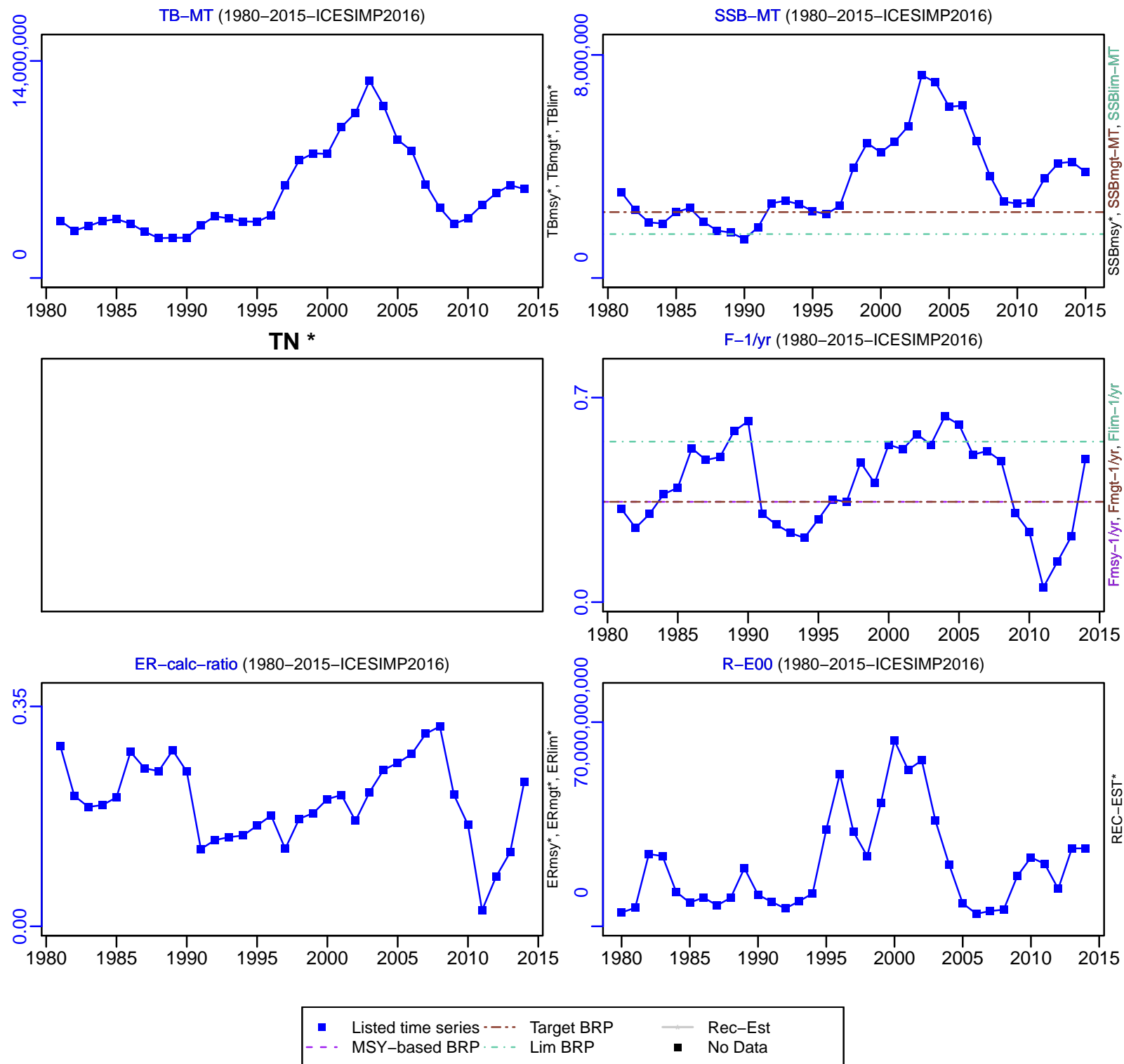


Production (1980–2015–ICESIMP2016)



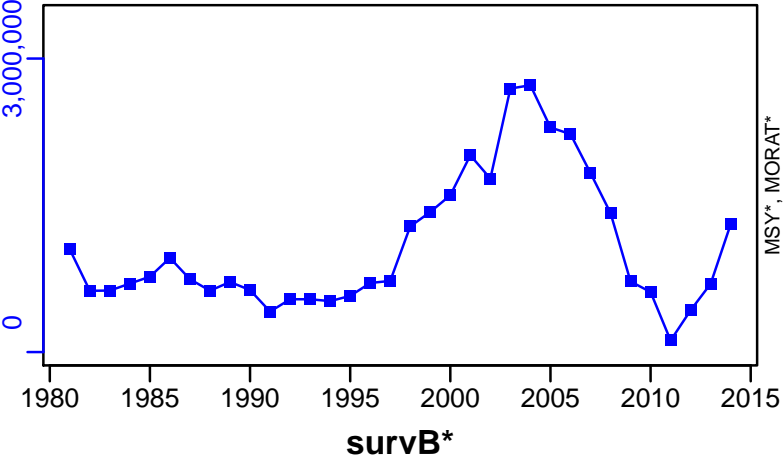
◆ Start Year ◆ End Year \* No Data

# Blue Whiting Northeast Atlantic [BWHITNEA]



Blue Whiting Northeast Atlantic [BWHITNEA]

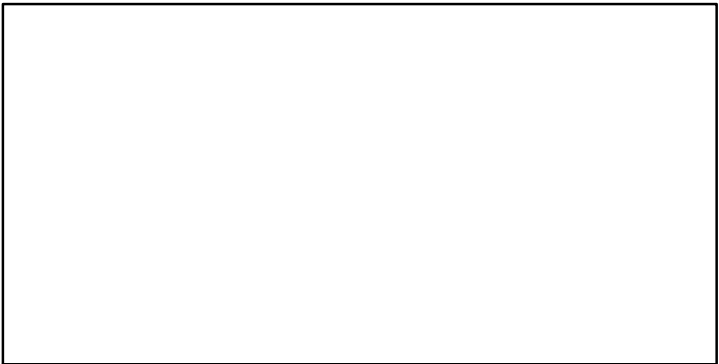
TC-MT, TL\*, RecC\* (1980-2015-ICESIMP2016)



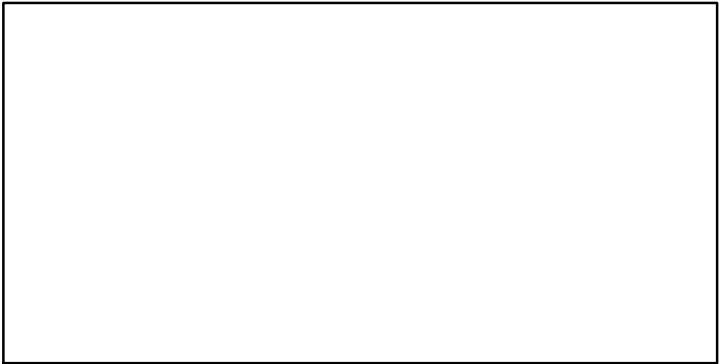
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

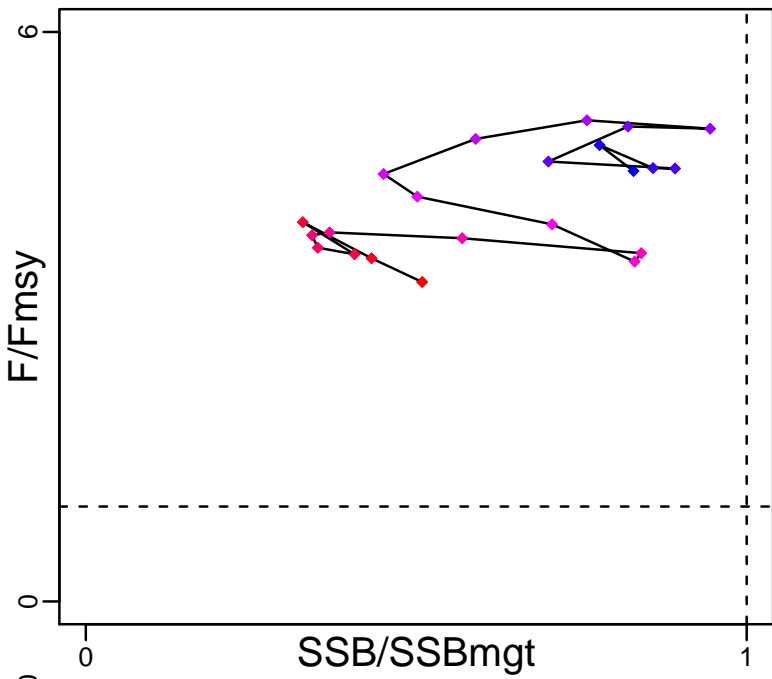
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGBFAS-CODBA2224-1993-2016-ICESIMP2016
<b>Area</b>	Western Baltic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2012,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.26
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	38,400
<b>Fmgt</b>	Fmgt-1/yr	2016	0.26
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	23,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	27,400
<b>Flim</b>	Flim-1/yr	2016	1.01
<b>ERlim</b>	-	-	-

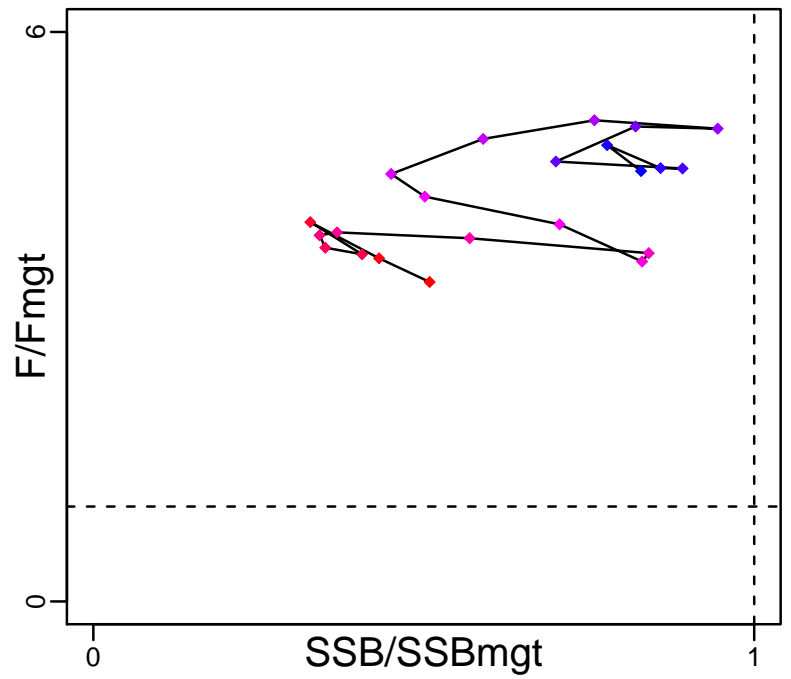
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	22,400	Both	-
<b>SSB</b>	SSB-MT	2016	19,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,090,000	-	1
<b>F</b>	F-1/yr	2016	0.875	-	3 to 5
<b>ER</b>	ER-calc-ratio	2016	0.362	-	-
<b>TC</b>	TC-MT	2016	8820		
<b>TL</b>	TL-MT	2016	8370		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	3.365		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.496		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	3.365		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

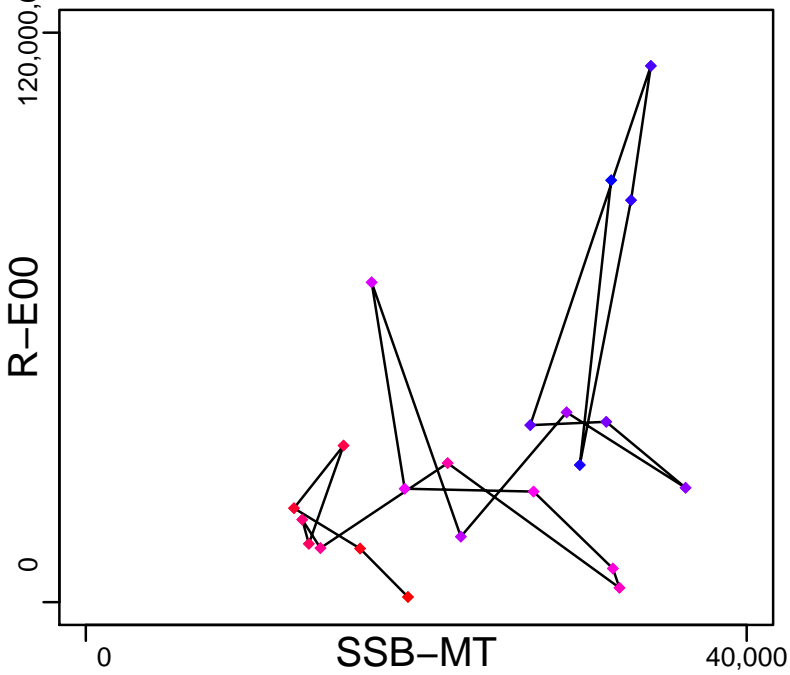
Kobe MSYpref (1993–2016–ICESIMP2016)



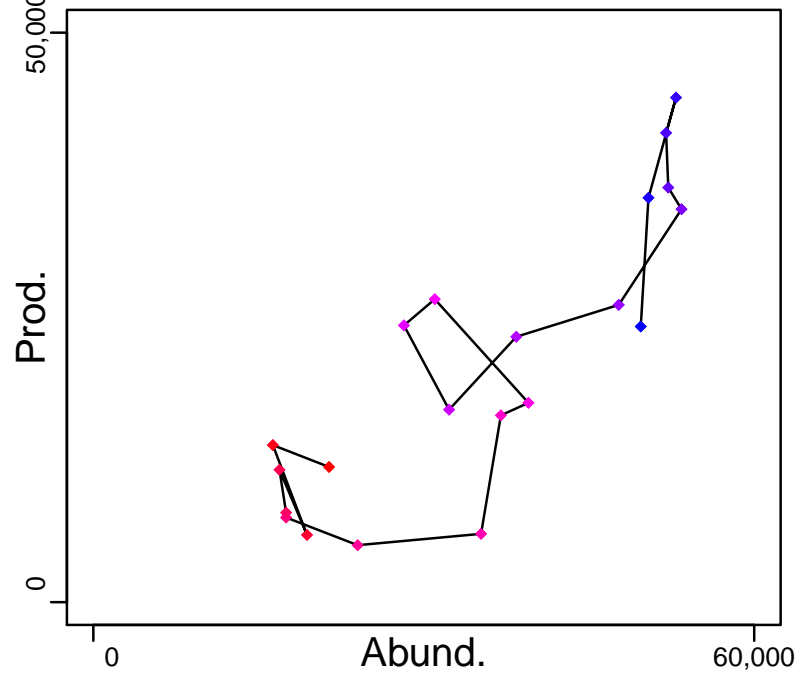
Kobe MGTpref (1993–2016–ICESIMP2016)



Spawner Recruit (1993–2016–ICESIMP2016)



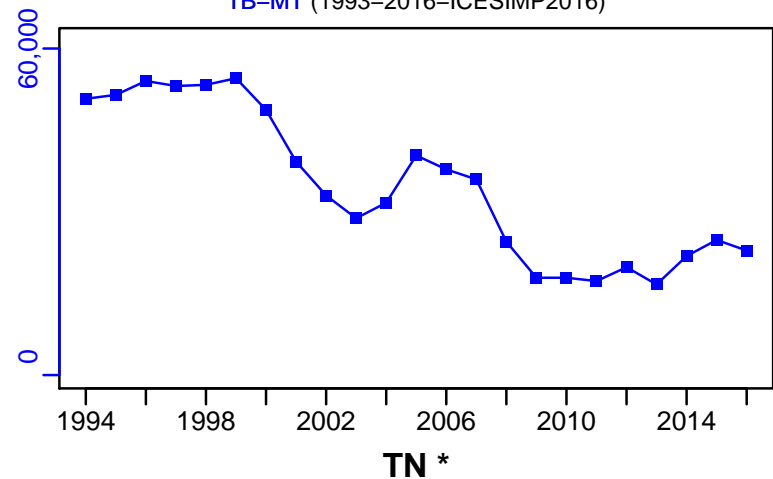
Production (1993–2016–ICESIMP2016)



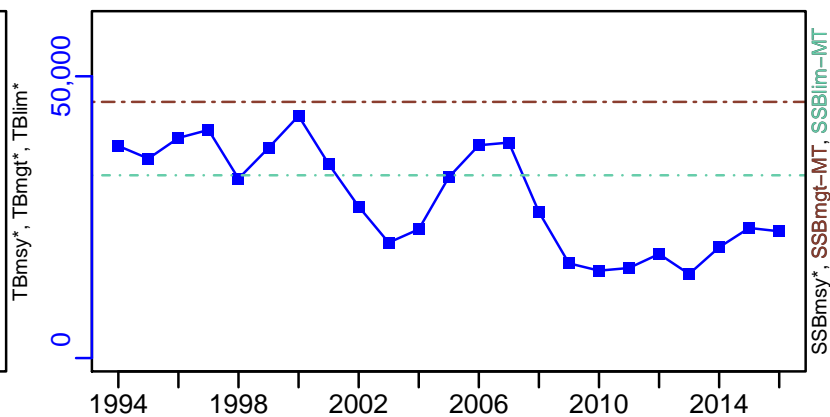
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Baltic Areas 22 and 24 [CODBA2224]

TB-MT (1993–2016–ICESIMP2016)



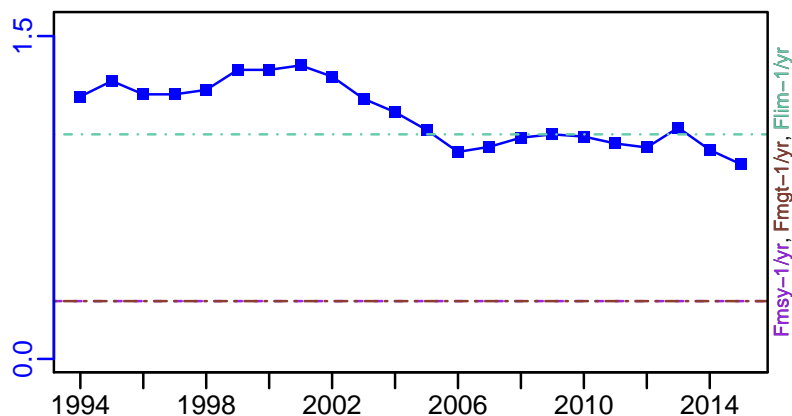
SSB-MT (1993–2016–ICESIMP2016)



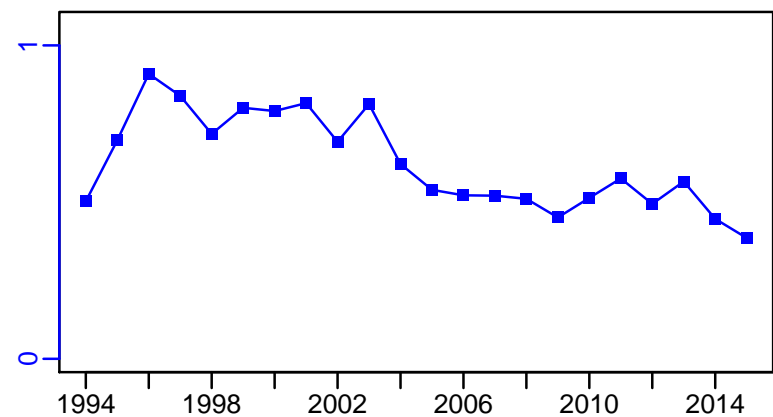
TN \*



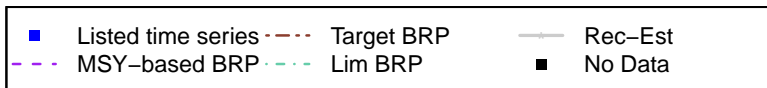
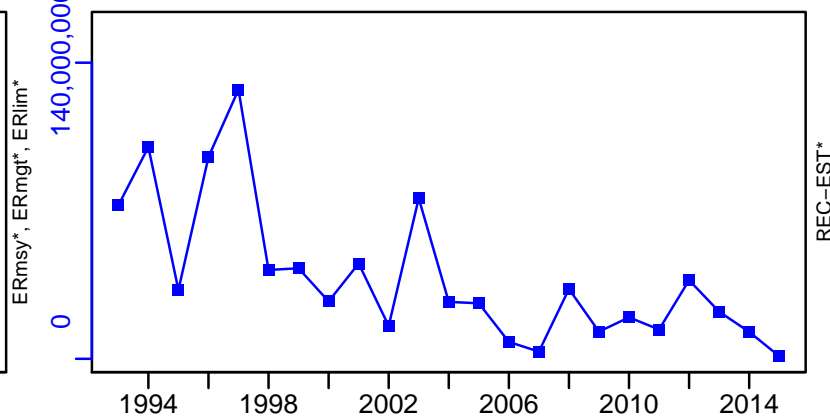
F-1/yr (1993–2016–ICESIMP2016)



ER-calc-ratio (1993–2016–ICESIMP2016)

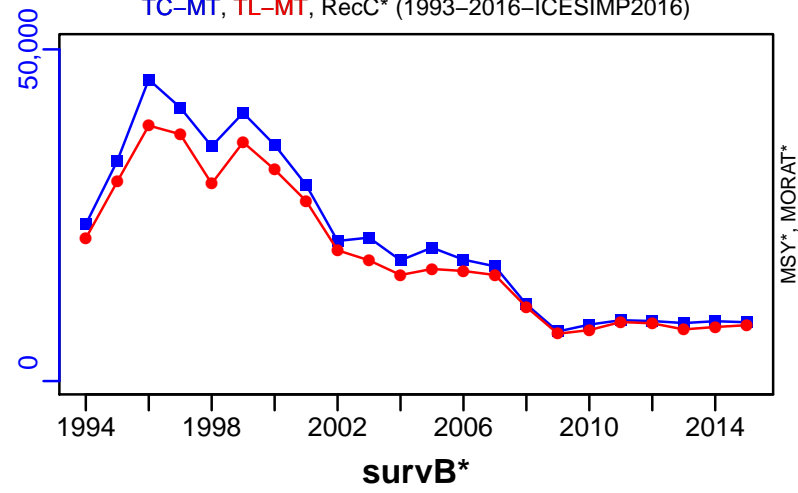


R-E00 (1993–2016–ICESIMP2016)



# 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]

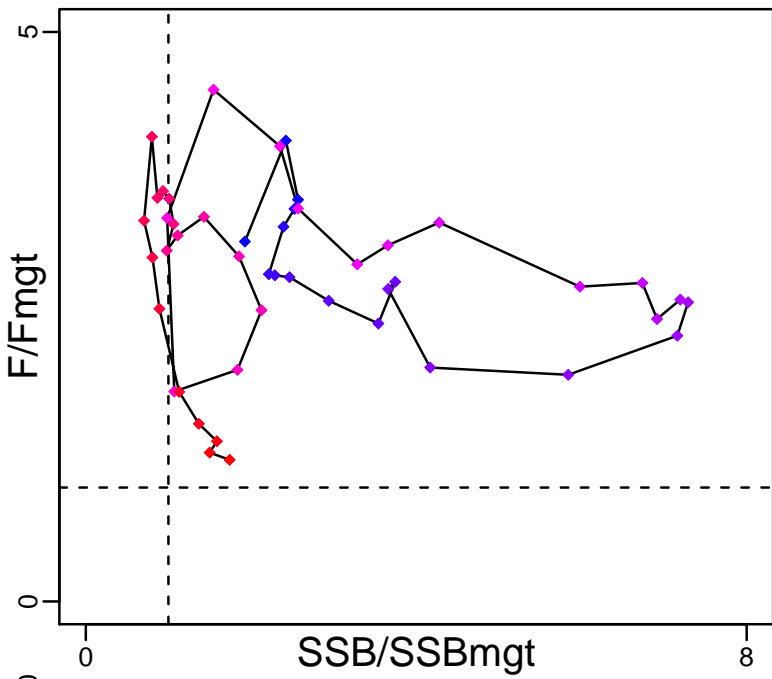
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGBFAS-CODBA2532-1965-2016-ICESIMP2016
<b>Area</b>	Eastern Baltic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2013,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

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

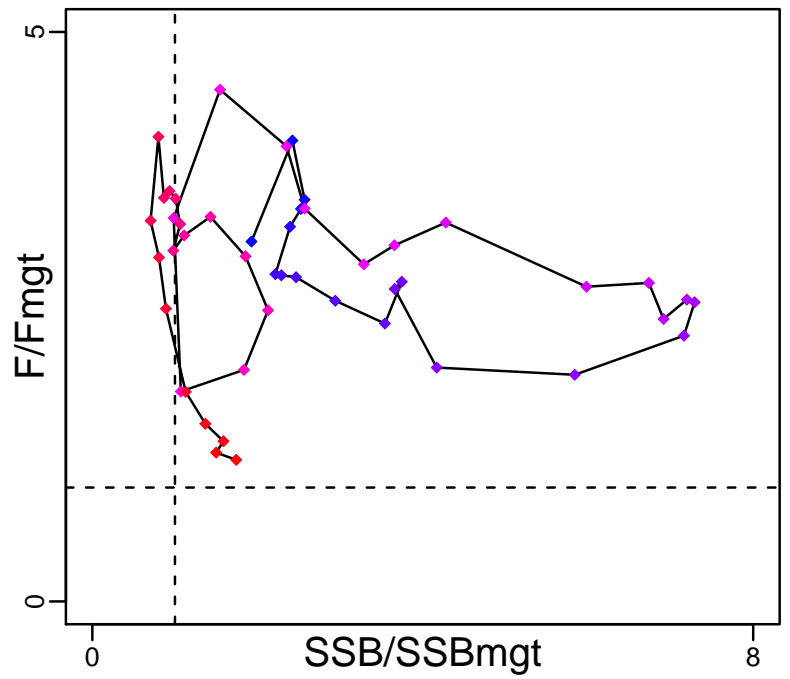
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	233,000	Both	-
<b>SSB</b>	SSB-MT	2013	180,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	$2.54 \times 10^8$	-	2
<b>F</b>	F-1/yr	2013	0.373	-	4 to 6
<b>ER</b>	ER-ratio	2016	0.344	-	-
<b>TC</b>	TC-MT	2016	49,600		
<b>TL</b>	TL-MT	2016	37,300		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2012	0.857		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	2.039		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	1.243		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Baltic Areas 25–32 [CODBA2532]

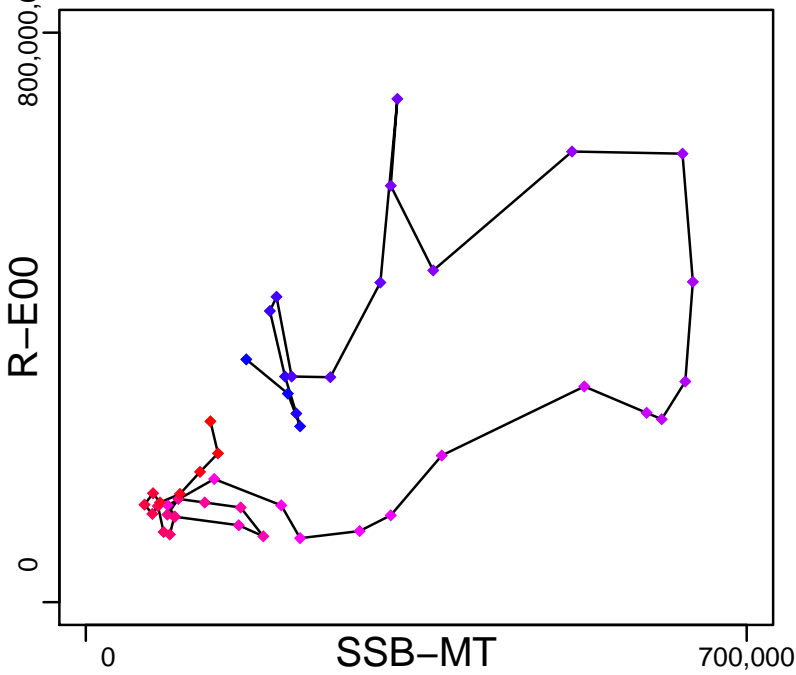
Kobe MSYpref (1964–2013–ICESIMP2016)



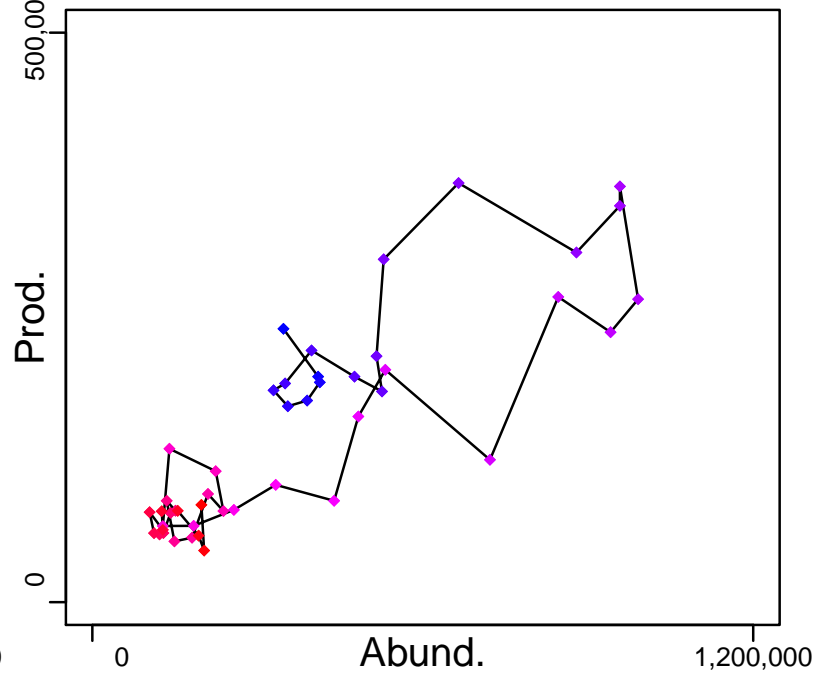
Kobe MGTpref (1964–2013–ICESIMP2016)



Spawner Recruit (1964–2013–ICESIMP2016)



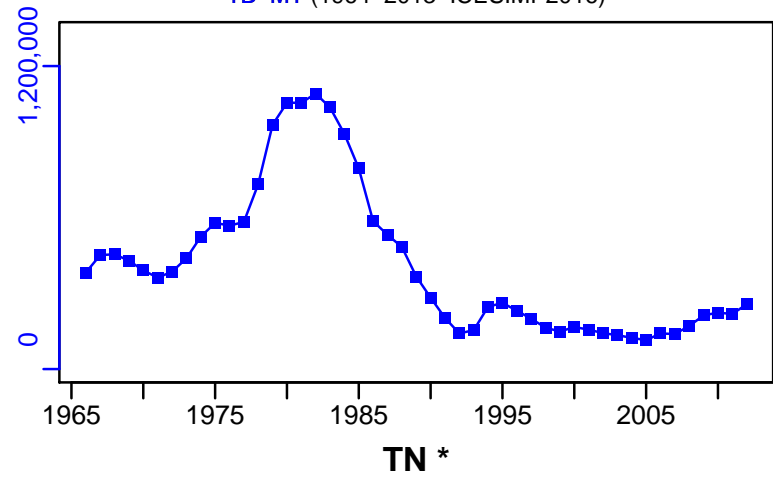
Production (1964–2013–ICESIMP2016)



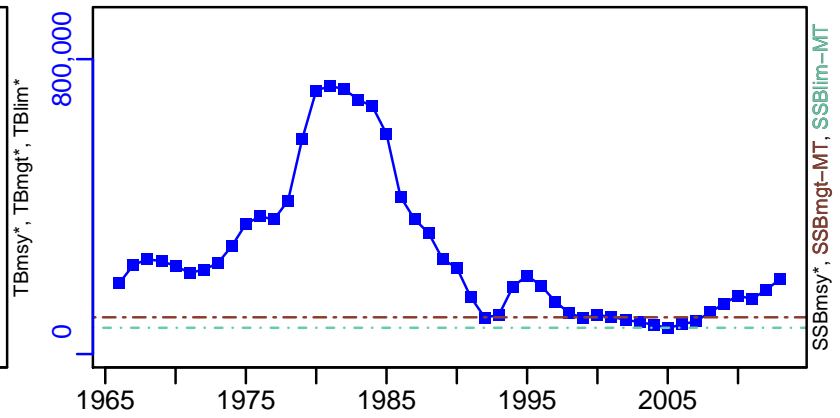
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Baltic Areas 25–32 [CODBA2532]

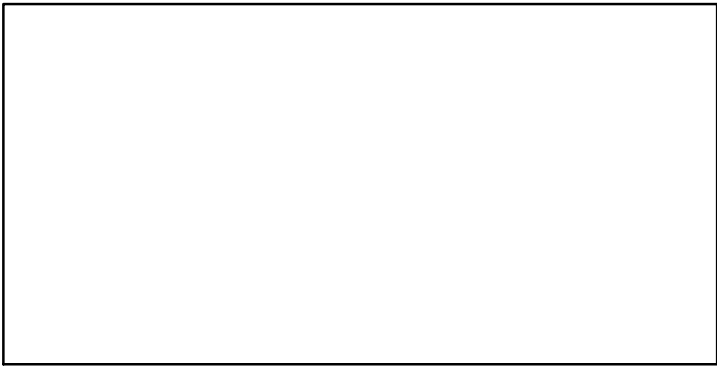
TB–MT (1964–2013–ICESIMP2016)



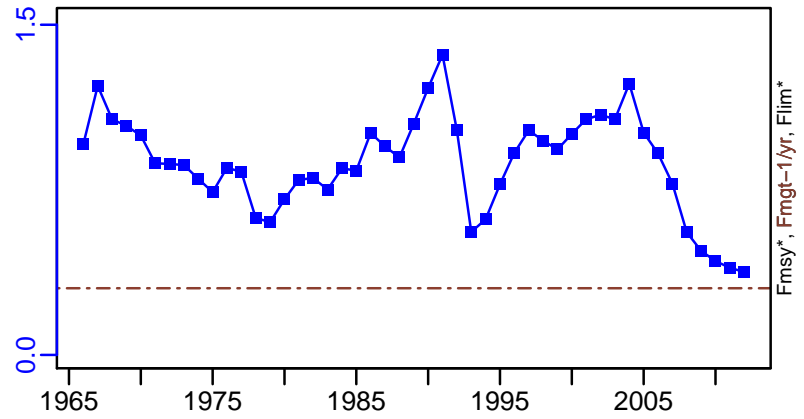
SSB–MT (1964–2013–ICESIMP2016)



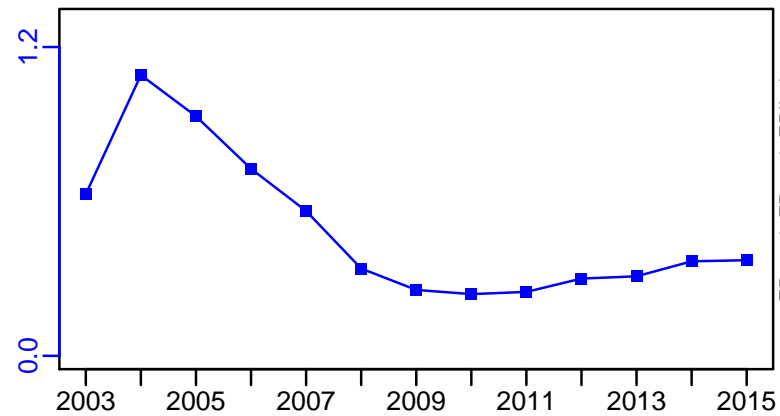
TN \*



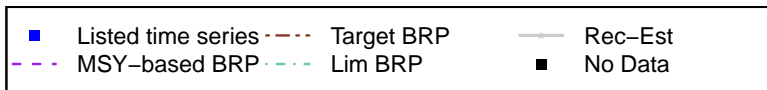
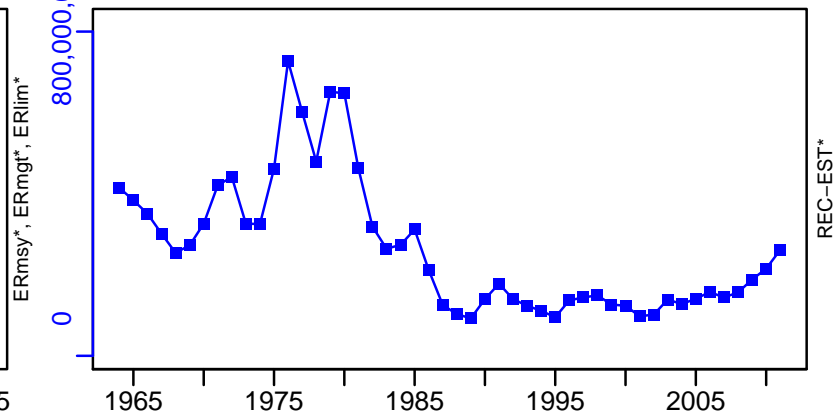
F–1/yr (1964–2013–ICESIMP2016)



ER–ratio (1965–2016–ICESIMP2016)



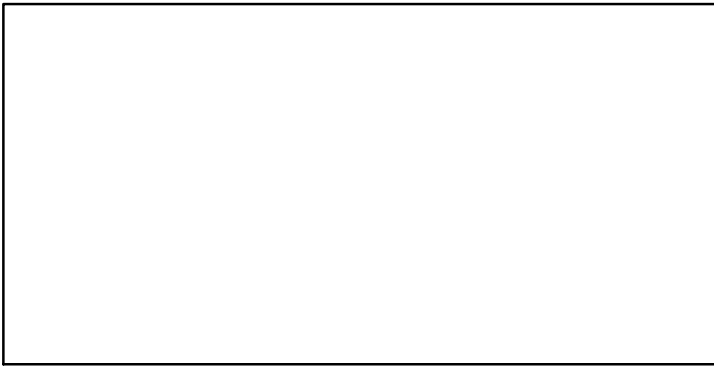
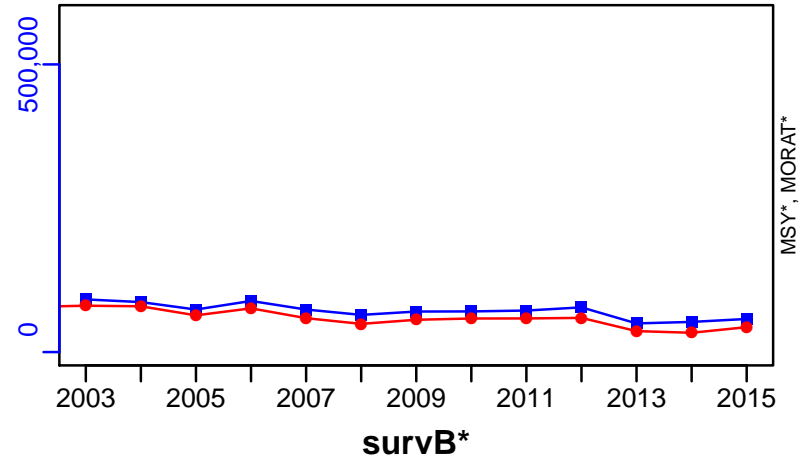
R–E00 (1964–2013–ICESIMP2016)



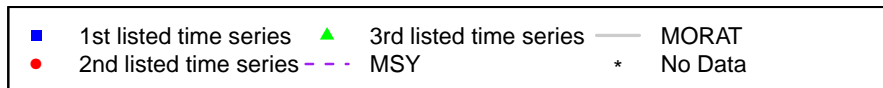
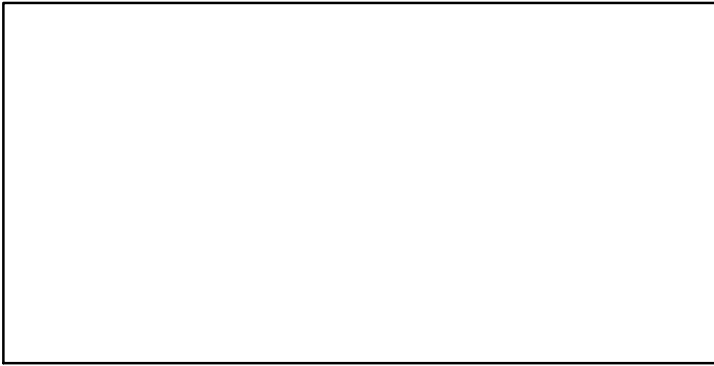
# Atlantic cod Baltic Areas 25-32 [CODBA2532]

TC-MT, TL-MT, RecC\* (1965-2016-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



EFFORT\*





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

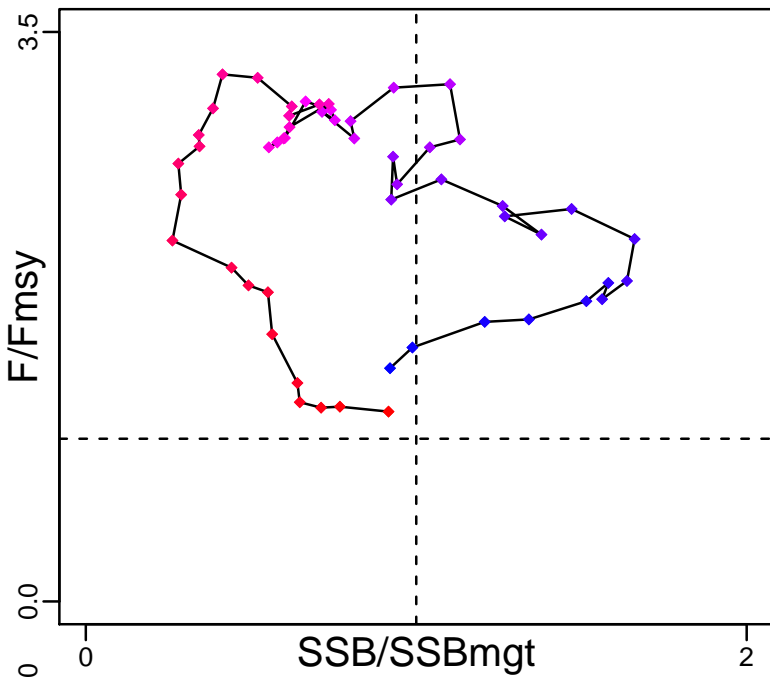
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGNSSK-CODIIIaW-IV-VIId-1962-2016-ICESIMP2016
<b>Area</b>	IIIa (west) and IV-VIId
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.33
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	165,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.33
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2011	70,000
<b>SSBlim</b>	SSBlim-MT	2016	118,000
<b>Flim</b>	Flim-1/yr	2016	0.58
<b>ERlim</b>	-	-	-

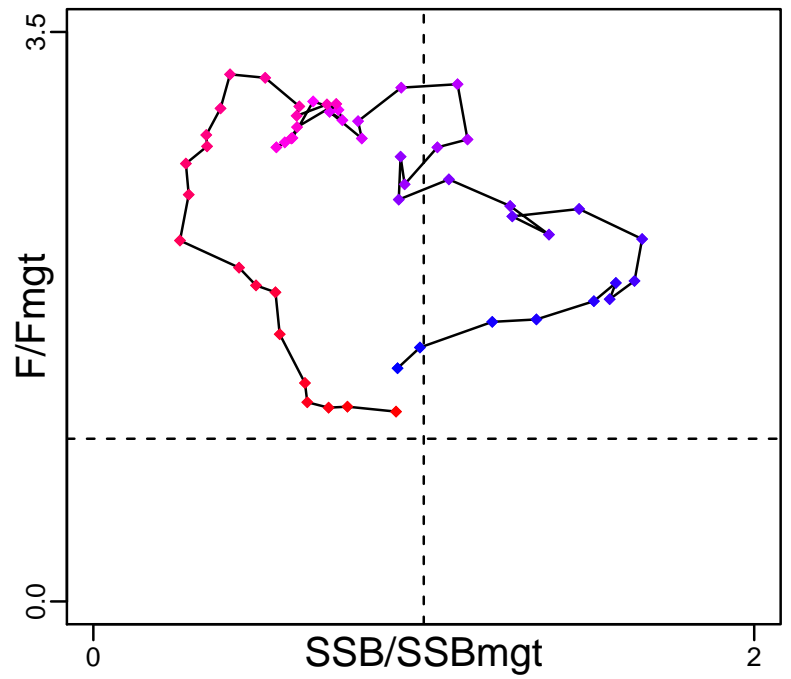
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	288,000	Both	-
<b>SSB</b>	SSB-MT	2016	161,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.96 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.385	-	2 to 4
<b>ER</b>	ER-calc-ratio	2016	0.182	-	-
<b>TC</b>	TC-MT	2016	52,300		
<b>TL</b>	TL-MT	2016	38,600		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.167		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.977		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.167		
<b>ER/ERmgt</b>	-	-	-		

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

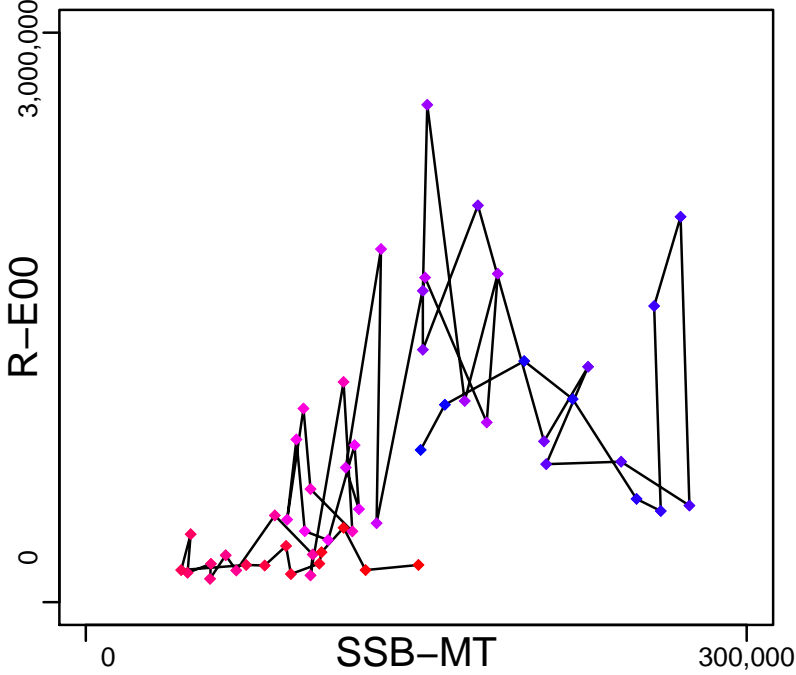
Kobe MSYpref (1962–2016–ICESIMP2016)



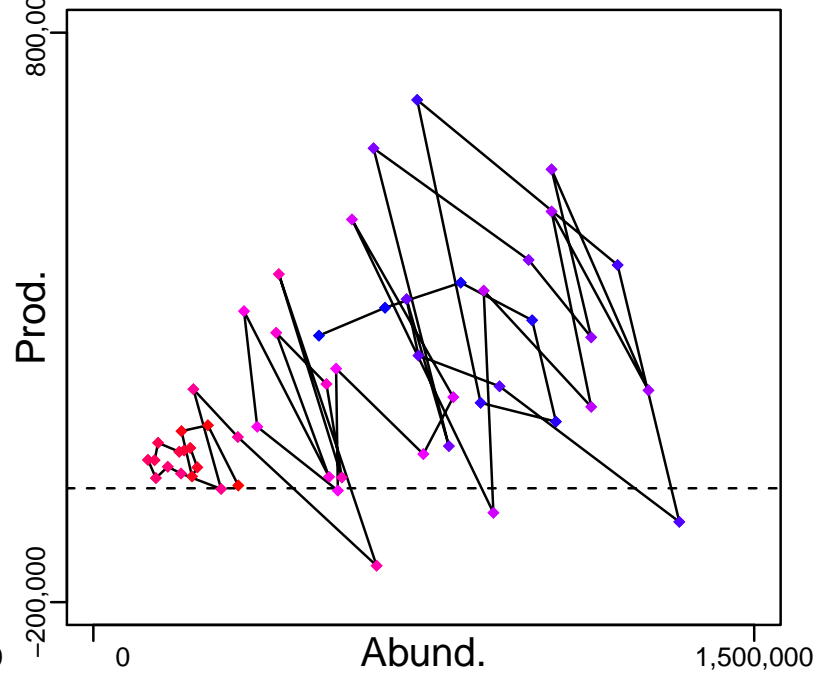
Kobe MGTpref (1962–2016–ICESIMP2016)



Spawner Recruit (1962–2016–ICESIMP2016)

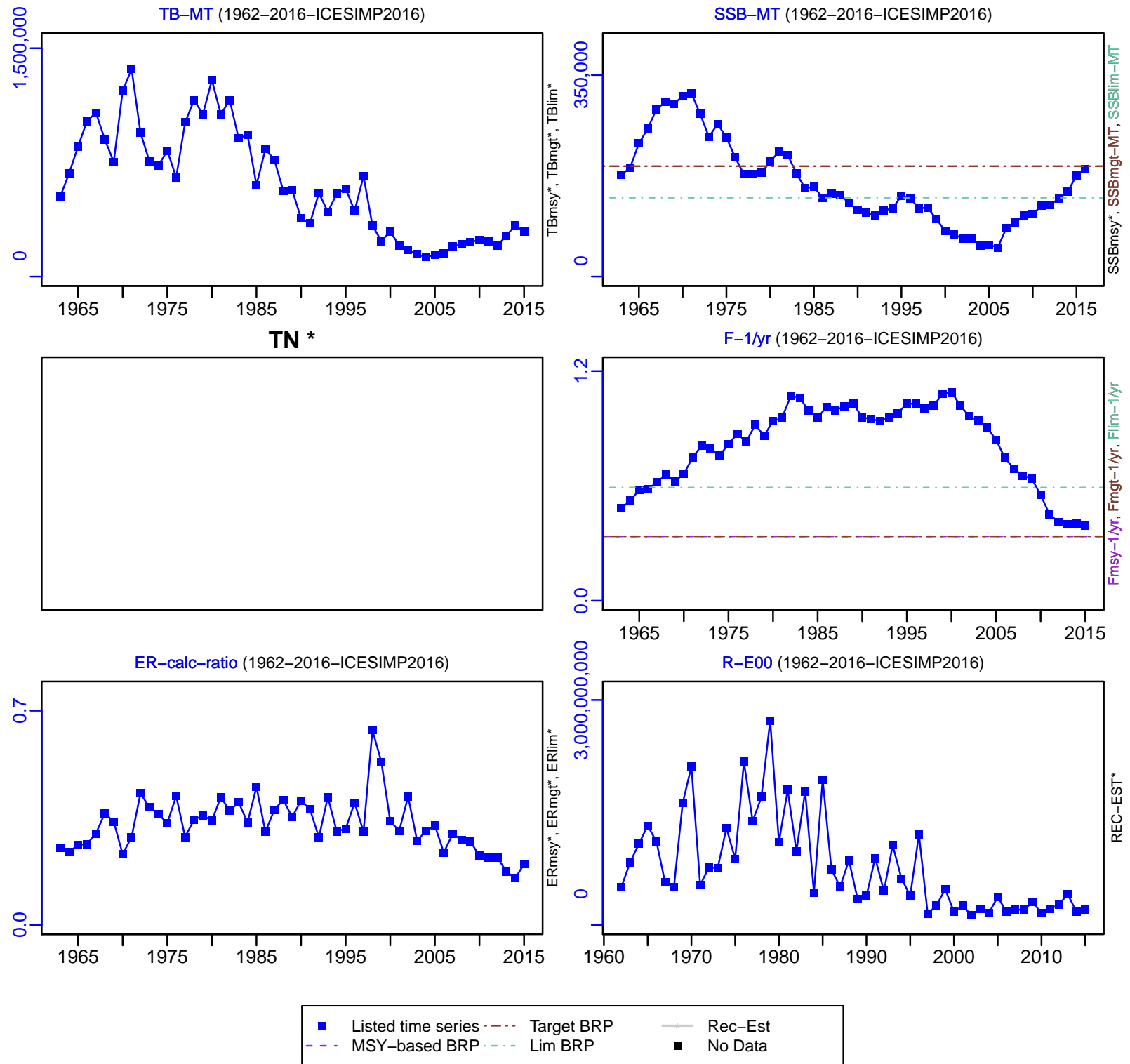


Production (1962–2016–ICESIMP2016)



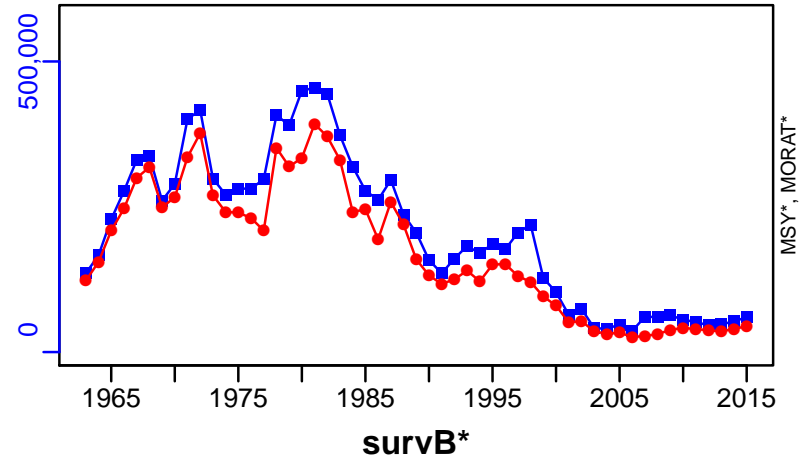
◆ Start Year ◆ End Year \* No Data

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

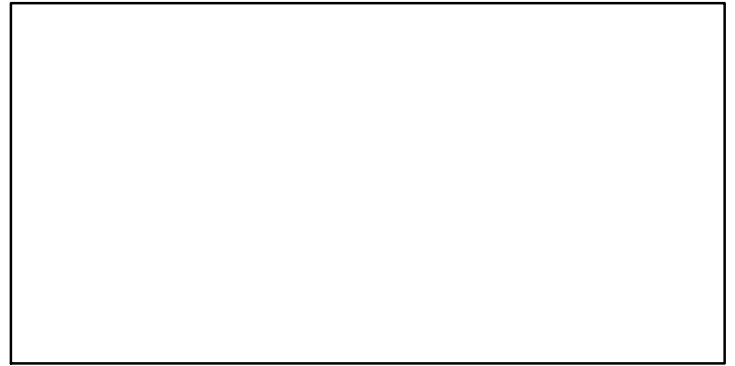


# Atlantic cod IIIa (west) and IV-VIId [CODIIIaW-IV-VIId]

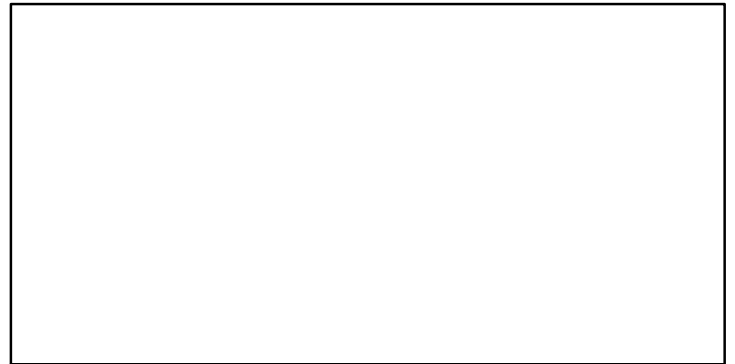
TC-MT, TL-MT, RecC\* (1962-2016-ICESIMP2016)



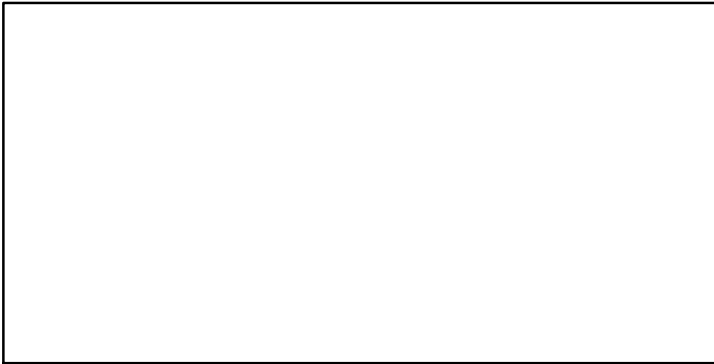
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Atlantic cod Irish Sea [CODIS]

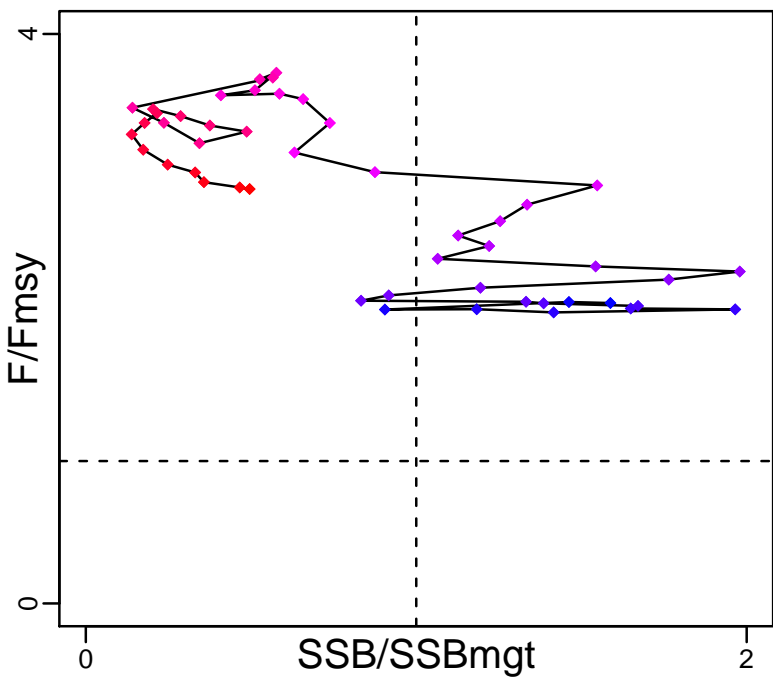
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGCSE-CODIS-1967-2016-ICESIMP2016
<b>Area</b>	Irish Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2010, 2013, 2014,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

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

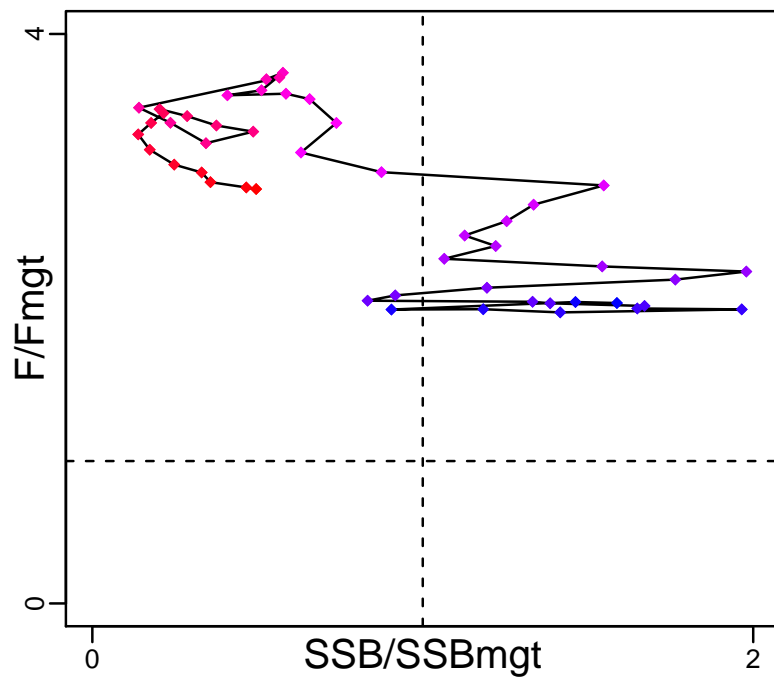
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	6610	Both	-
<b>SSB</b>	SSB-MT	2016	5270	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,130,000	-	1
<b>F</b>	F-1/yr	2016	1.08	-	2 to 4
<b>ER</b>	ER-calc-ratio	2016	0.058	-	-
<b>TC</b>	TC-MT	2016	385		
<b>TL</b>	TL-MT	2016	161		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	2.911		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.527		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	2.911		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Irish Sea [CODIS]

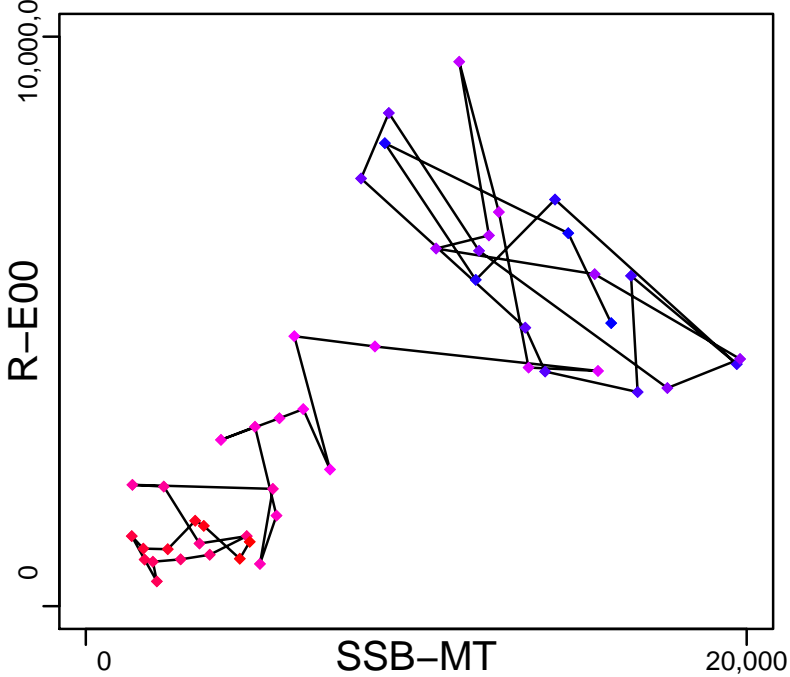
Kobe MSYpref (1967–2016–ICESIMP2016)



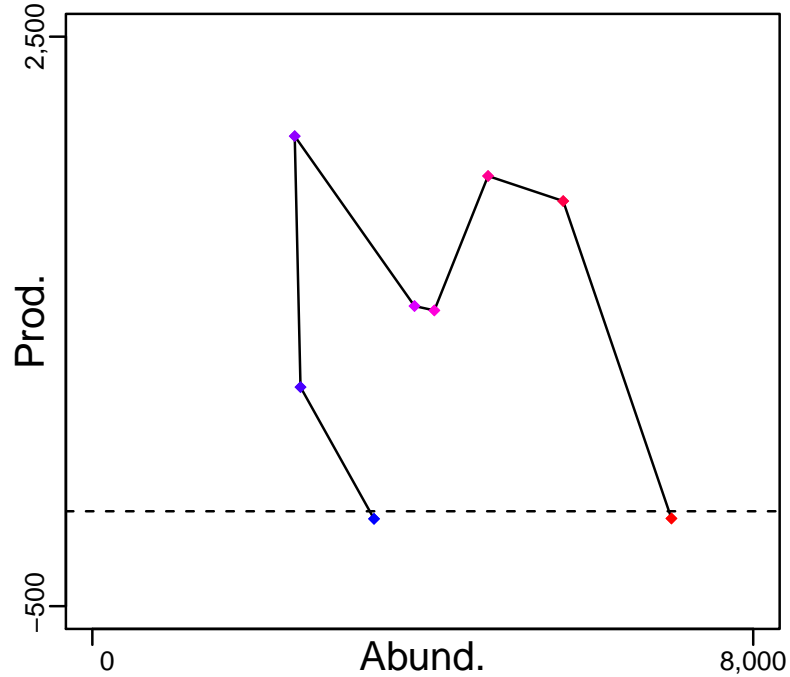
Kobe MGTpref (1967–2016–ICESIMP2016)



Spawner Recruit (1967–2016–ICESIMP2016)



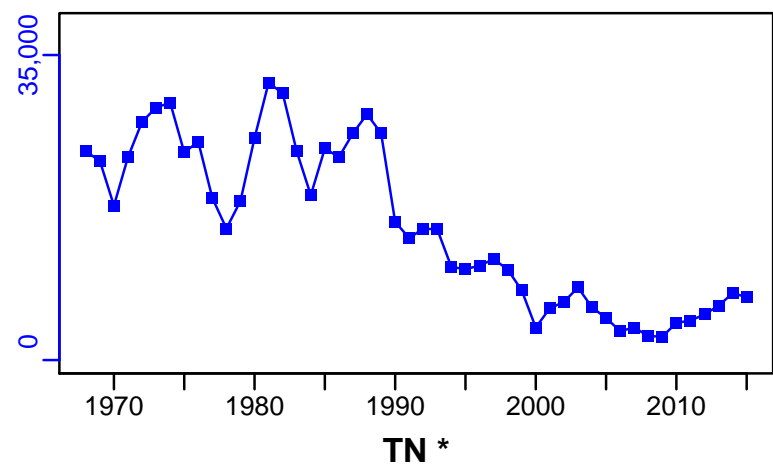
Production (1967–2016–ICESIMP2016)



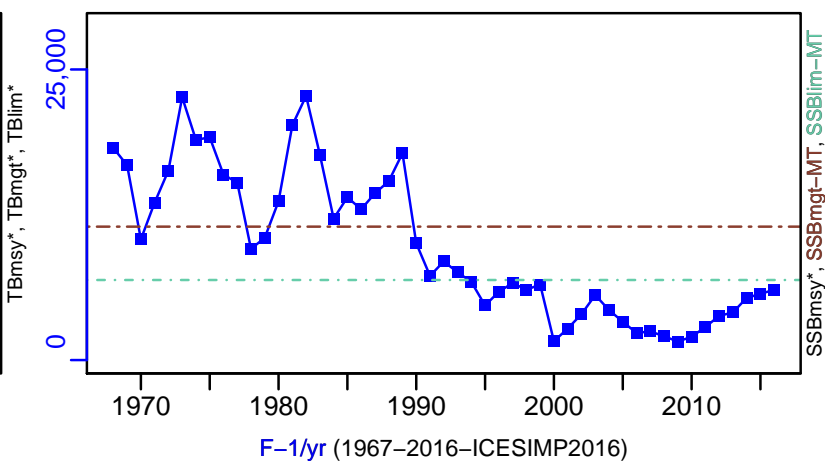
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Irish Sea [CODIS]

TB-MT (1967–2016–ICESIMP2016)



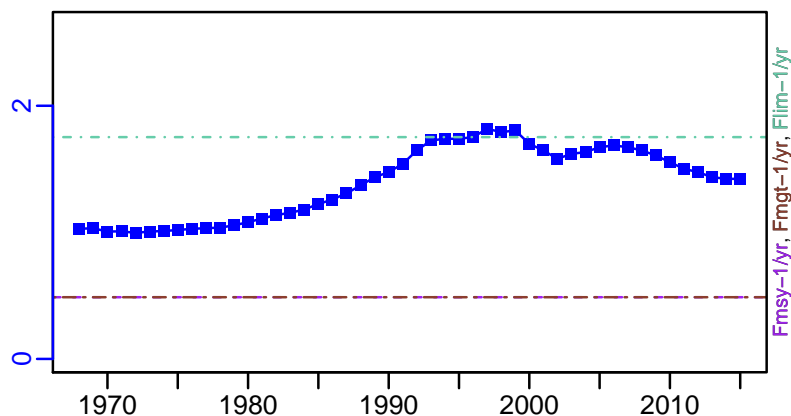
SSB-MT (1967–2016–ICESIMP2016)



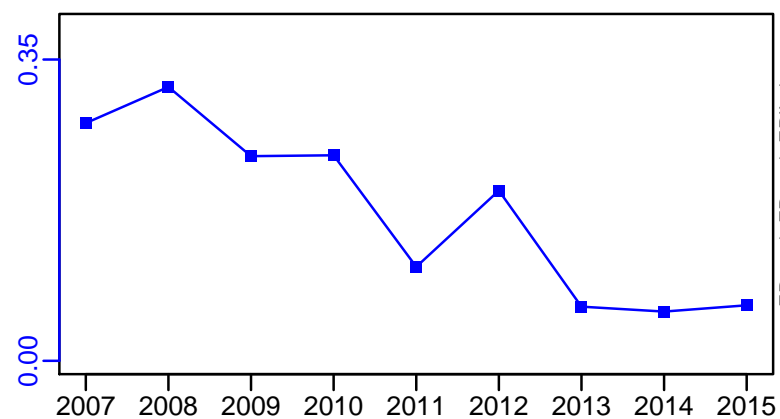
TN \*



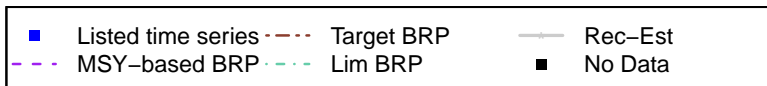
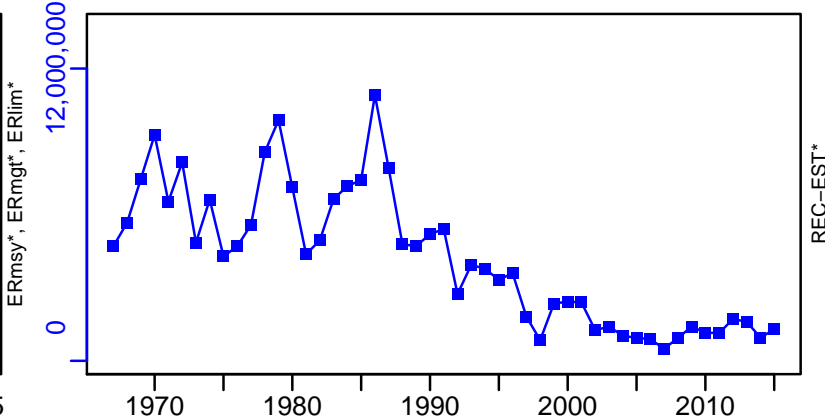
F-1/yr (1967–2016–ICESIMP2016)



ER-calc-ratio (1967–2016–ICESIMP2016)

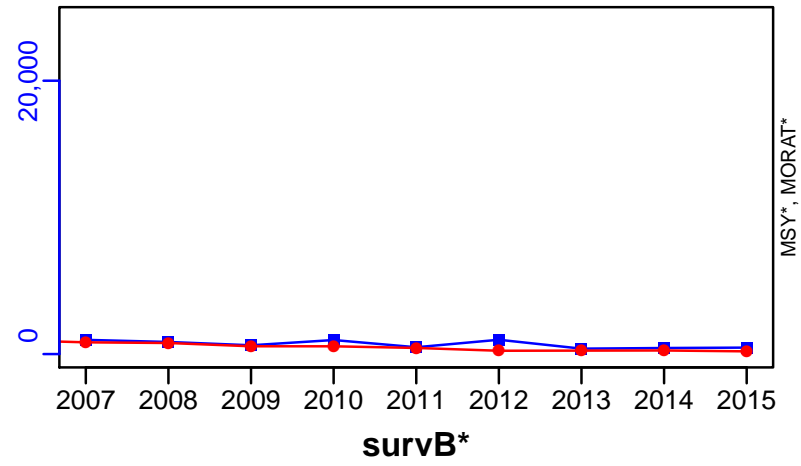


R-E00 (1967–2016–ICESIMP2016)



# Atlantic cod Irish Sea [CODIS]

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



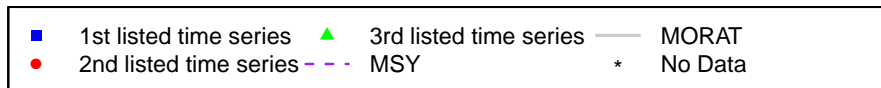
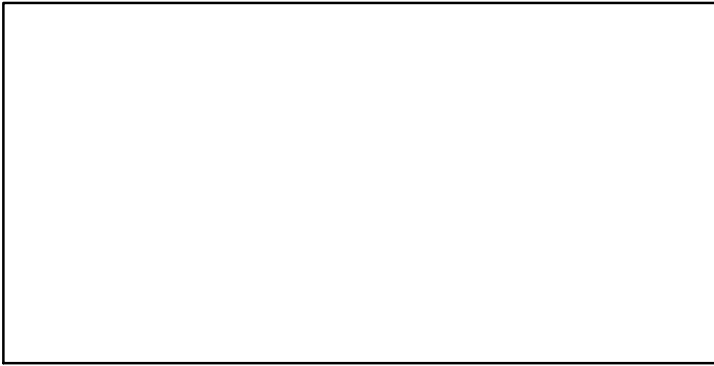
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





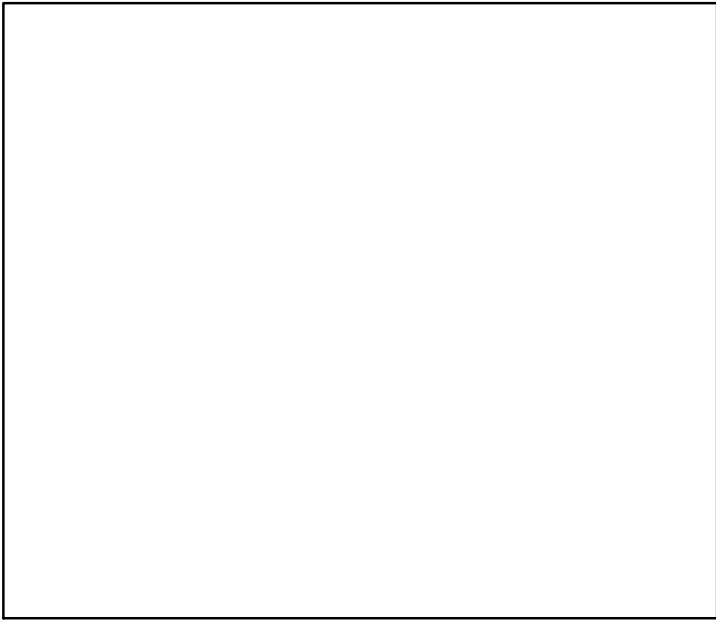
## Atlantic cod Kattegat [CODKAT]

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

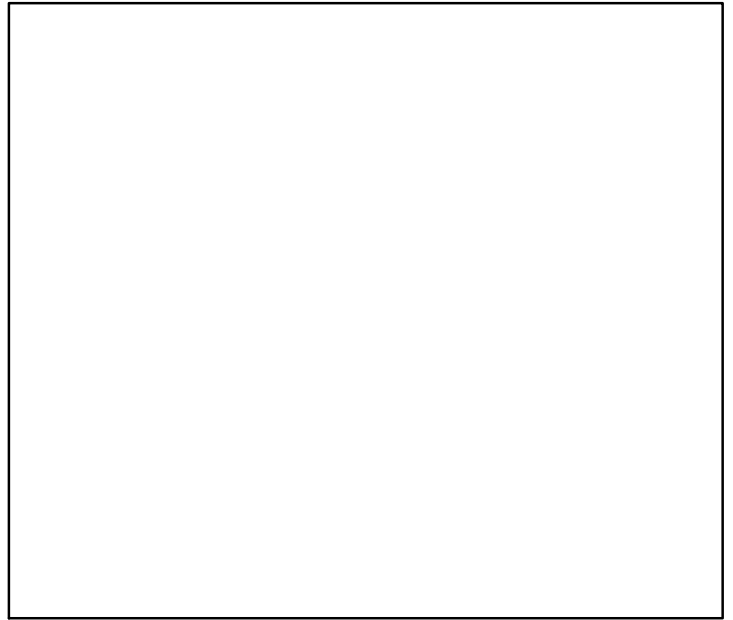
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-relative	2015	10,500
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2012	6400
SSBlim	SSBlim-relative	2015	6400
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	1.74	Both	-
TN	-	-	-	-	-
R	R-relative	2016	0.493	-	1
F	F-relative	2016	0.391	-	-
ER	ER-ratio	2012	0.101	-	-
TC	TC-MT	2016	508		
TL	TL-MT	2016	107		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

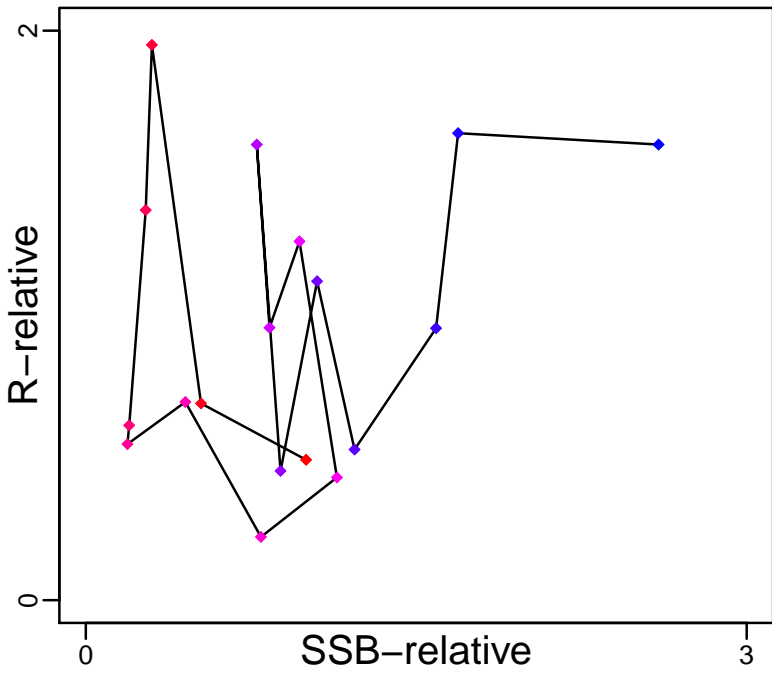
**Kobe MSY\***



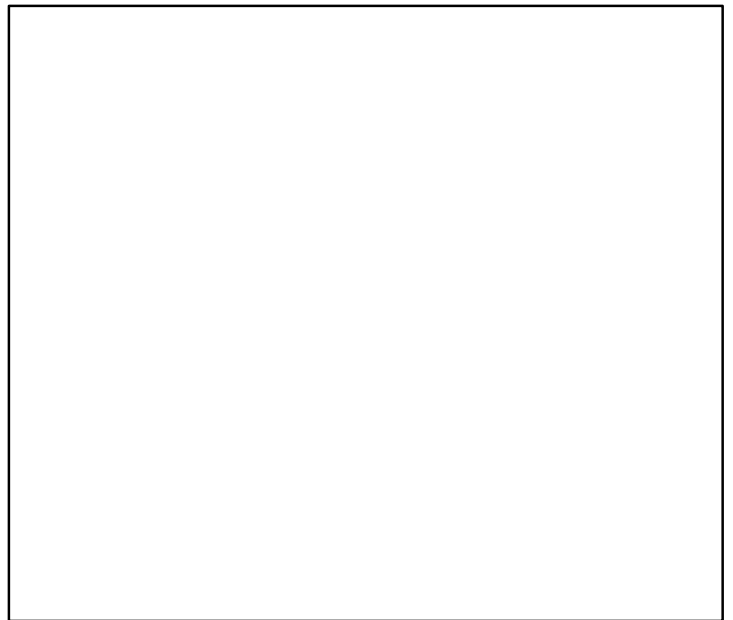
**Kobe MGT\***



Spawner Recruit (1996–2016–ICESIMP2016)



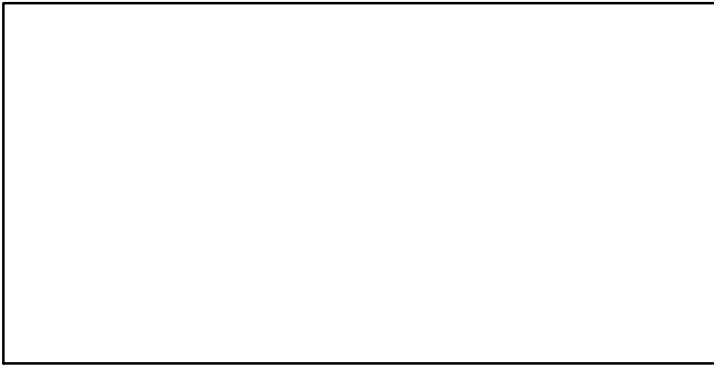
**Production\***



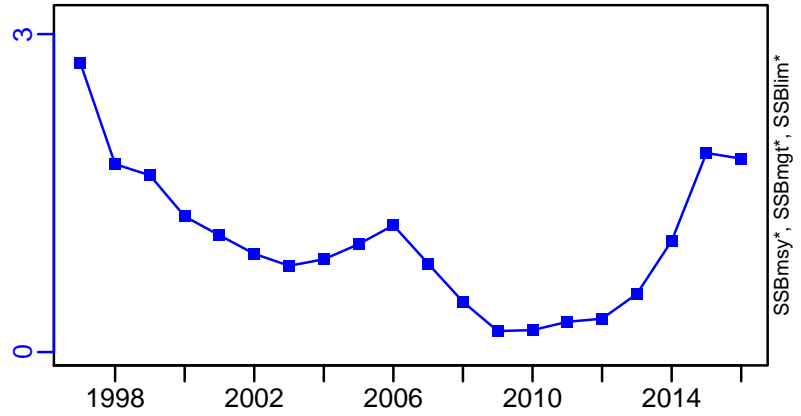
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Kattegat [CODKAT]

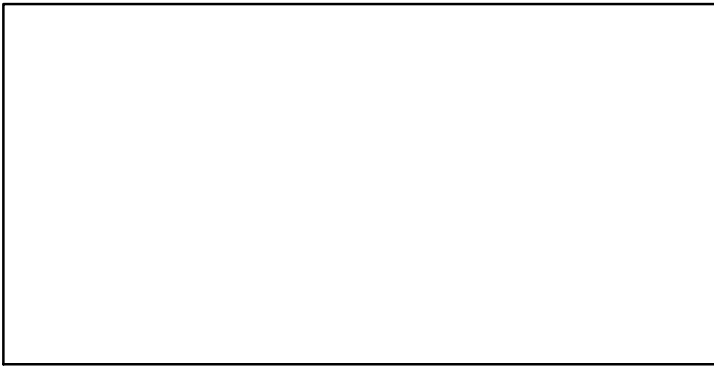
TB\*



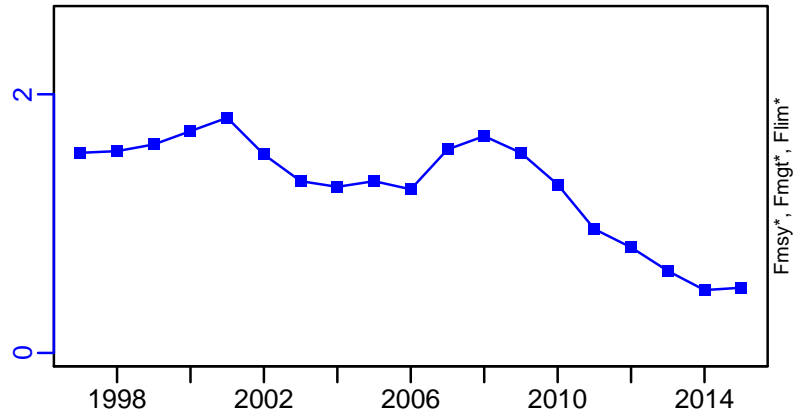
SSB-relative (1996–2016–ICESIMP2016)



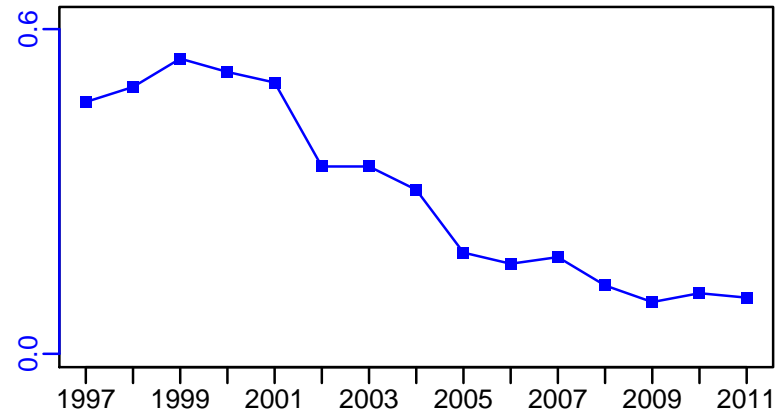
TN \*



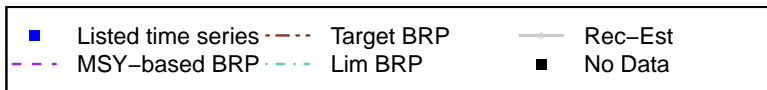
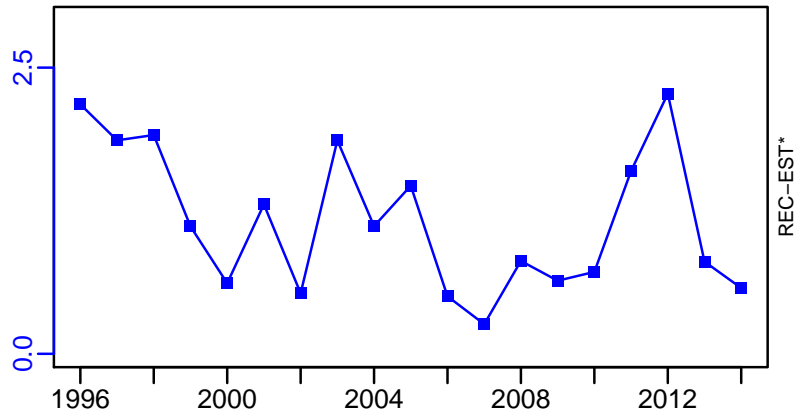
F-relative (1996–2016–ICESIMP2016)



ER-ratio (1971–2012–CHING)

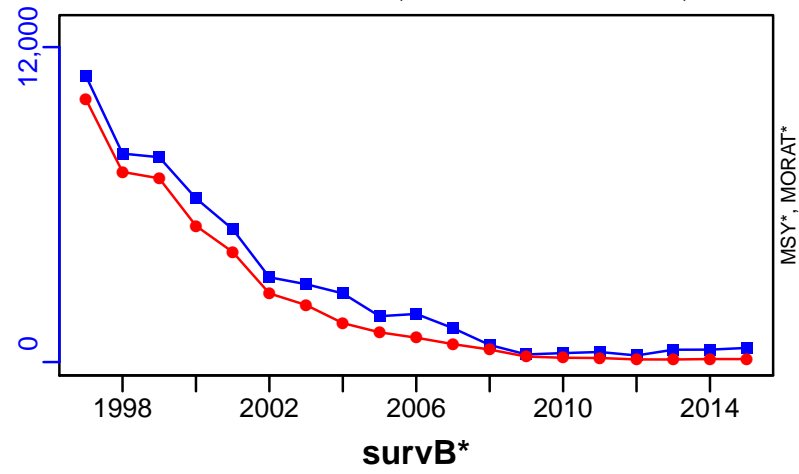


R-relative (1996–2016–ICESIMP2016)

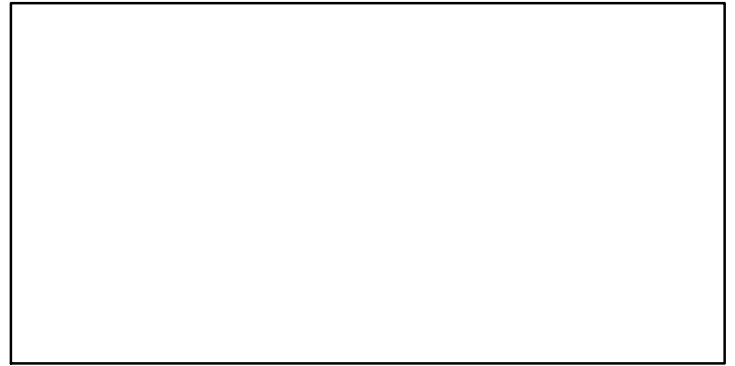


# Atlantic cod Kattegat [CODKAT]

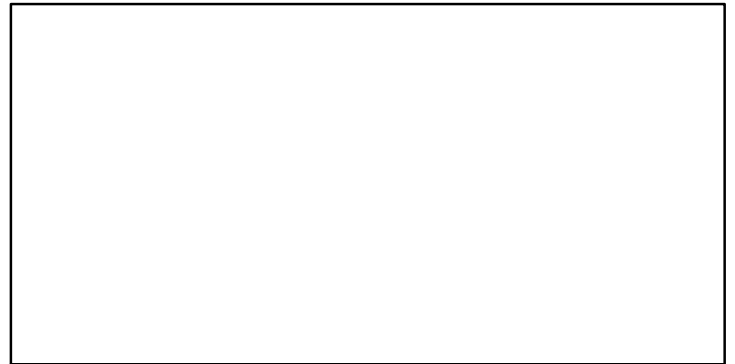
TC-MT, TL-MT, RecC\* (1996–2016–ICESIMP2016)



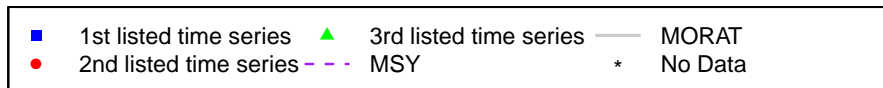
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Atlantic cod West of Scotland [CODVla]

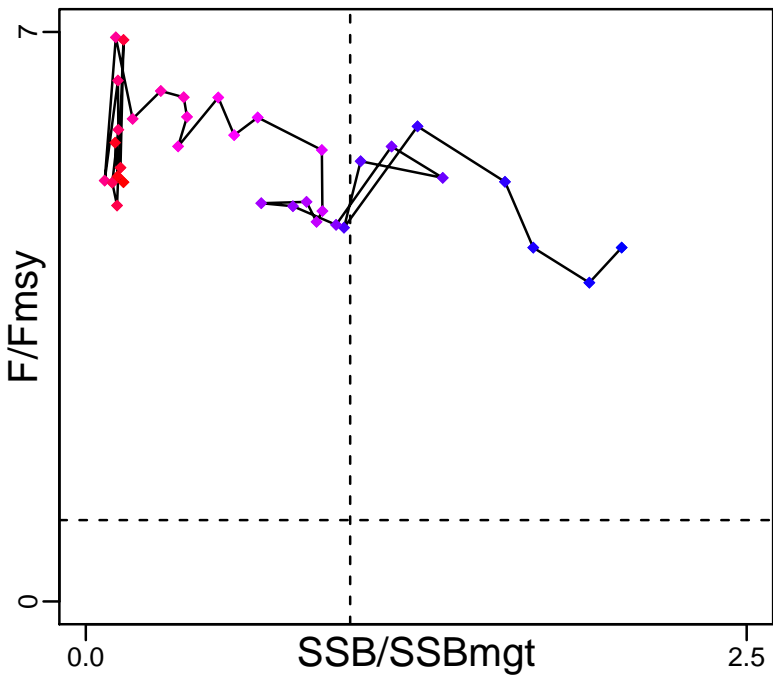
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGCSE-CODVla-1981-2016-ICESIMP2016
<b>Area</b>	West of Scotland
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2013, 2014,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-pr-MT	2012	22,000
<b>Fmsy</b>	Fmsy-1/yr	2016	0.17
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	20,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.17
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	14,000
<b>Flim</b>	Flim-1/yr	2016	0.82
<b>ERlim</b>	-	-	-

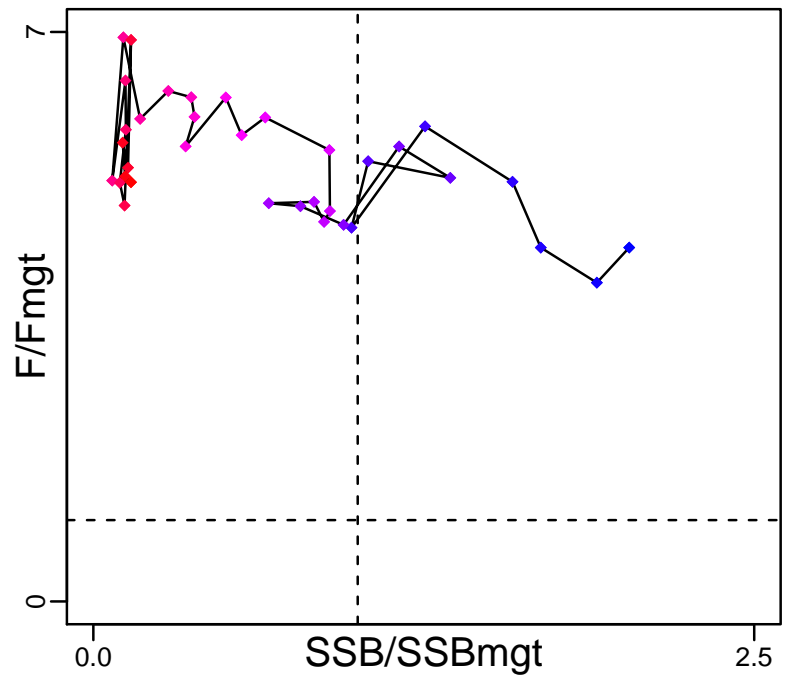
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	4270	Both	-
<b>SSB</b>	SSB-MT	2016	2680	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	3,780,000	-	-
<b>F</b>	F-1/yr	2016	0.876	-	-
<b>ER</b>	ER-calc-ratio	2016	0.368	-	-
<b>TC</b>	TC-MT	2016	1750		
<b>TL</b>	TL-MT	2016	770		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-pr-MT	2012	0.169		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	5.153		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.134		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	5.153		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod West of Scotland [CODVla]

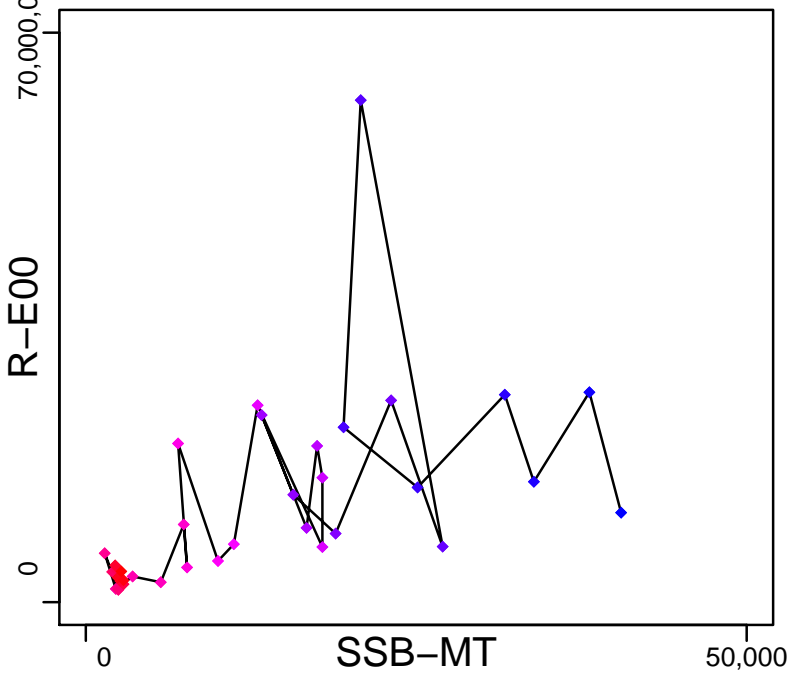
Kobe MSYpref (1981–2016–ICESIMP2016)



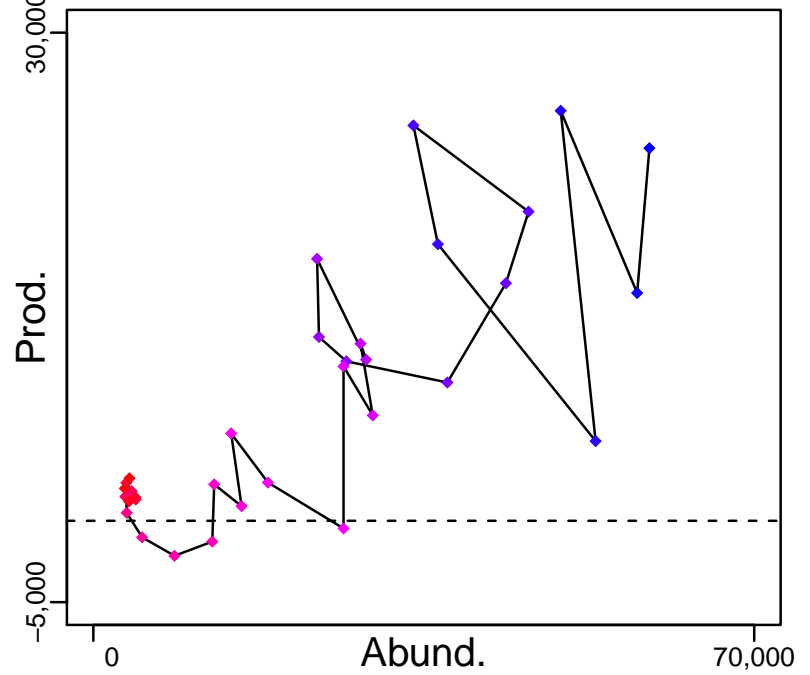
Kobe MGTpref (1981–2016–ICESIMP2016)



Spawner Recruit (1981–2016–ICESIMP2016)



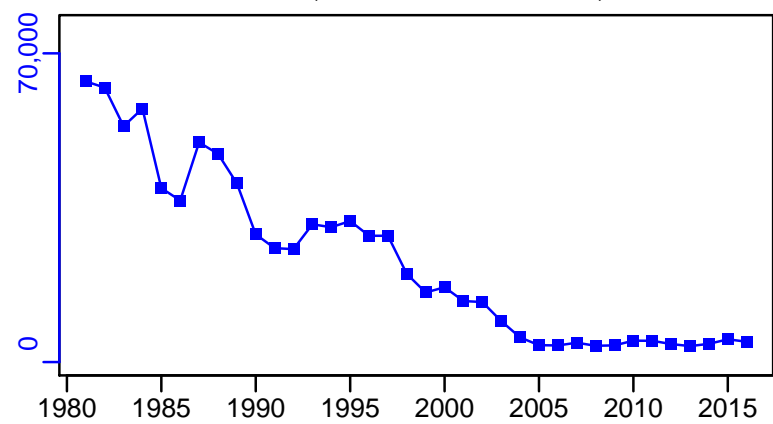
Production (1981–2016–ICESIMP2016)



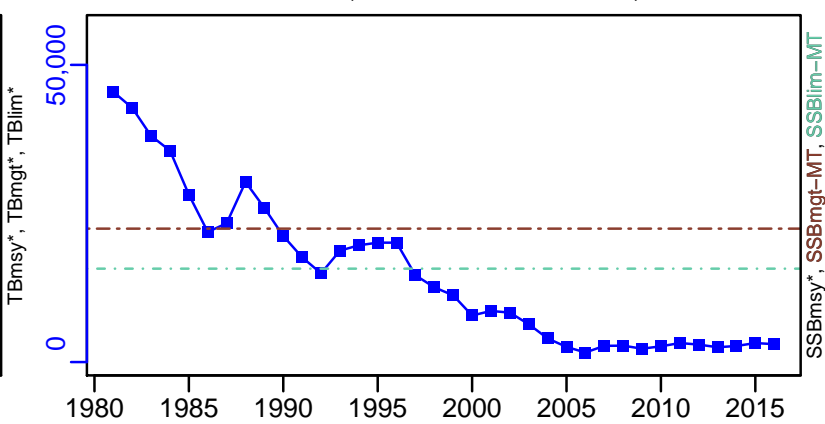
◆ Start Year ◆ End Year \* No Data

# Atlantic cod West of Scotland [CODVla]

TB-MT (1981–2016–ICESIMP2016)



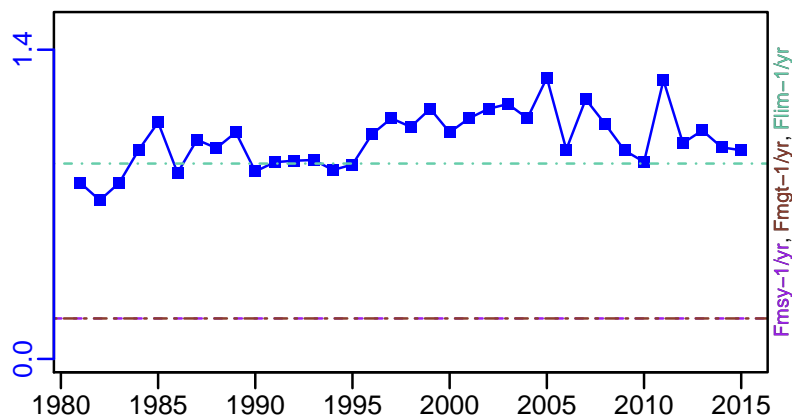
SSB-MT (1981–2016–ICESIMP2016)



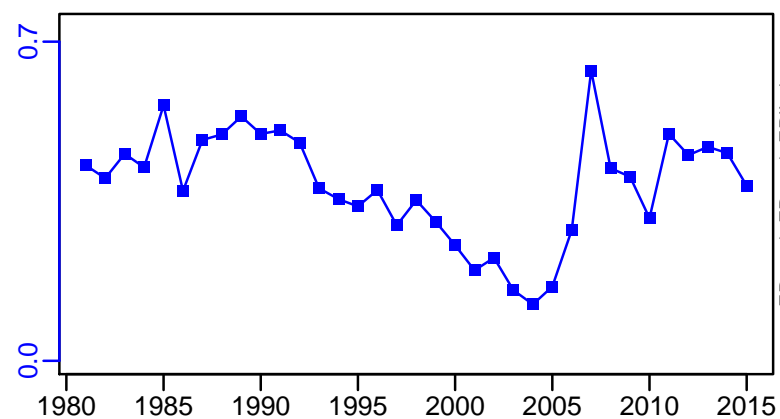
TN \*



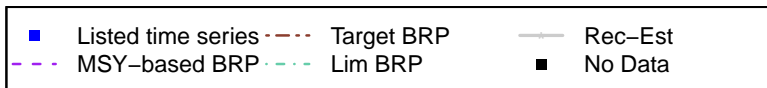
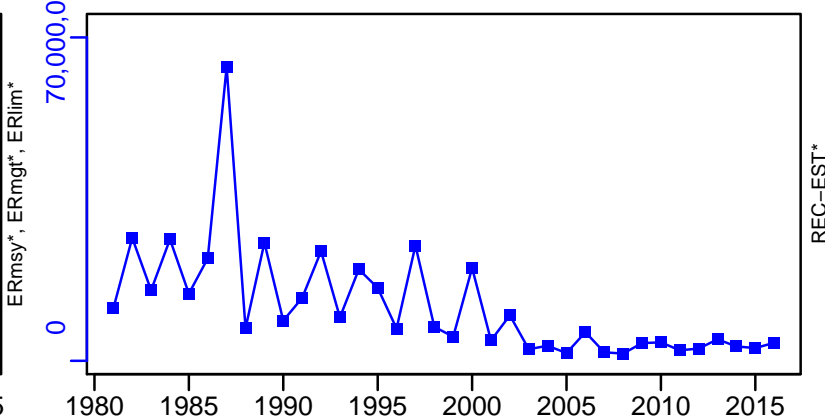
F-1/yr (1981–2016–ICESIMP2016)



ER-calc-ratio (1981–2016–ICESIMP2016)



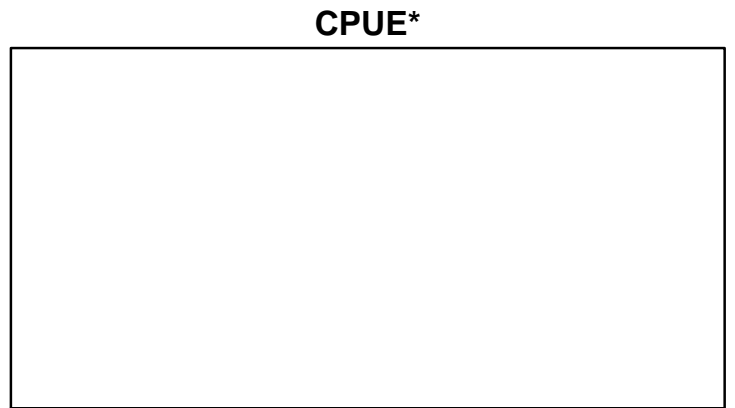
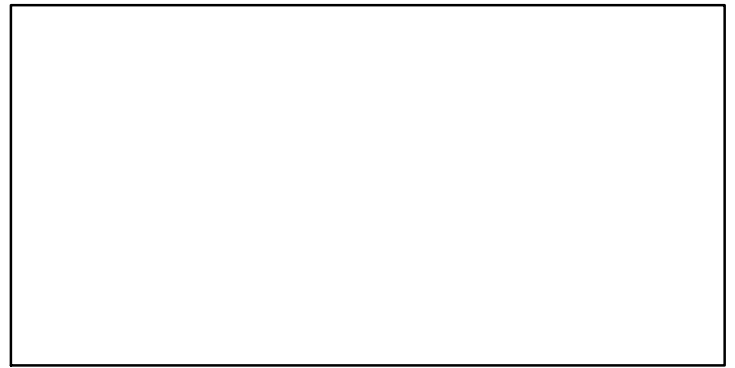
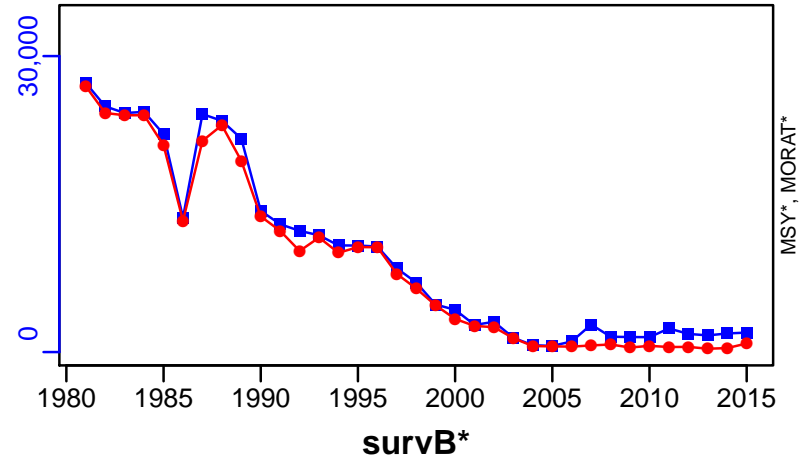
R-E00 (1981–2016–ICESIMP2016)



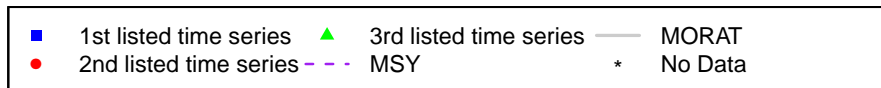
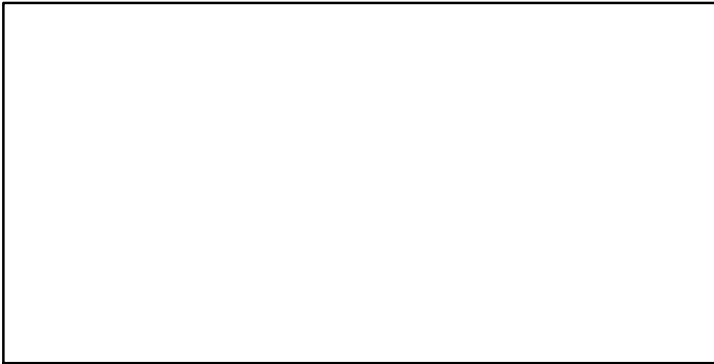
# Atlantic cod West of Scotland [CODVla]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





## Atlantic Cod Celtic Sea [CODVllek]

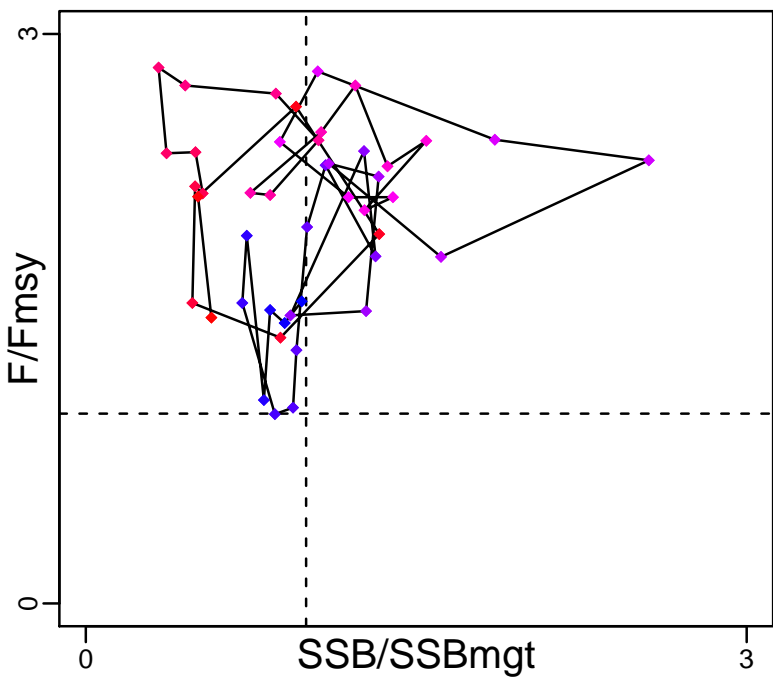
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	WGCSE-CODVllek-1970-2016-ICESIMP2016
<b>Area</b>	Celtic Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2012, 2013, 2014,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

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

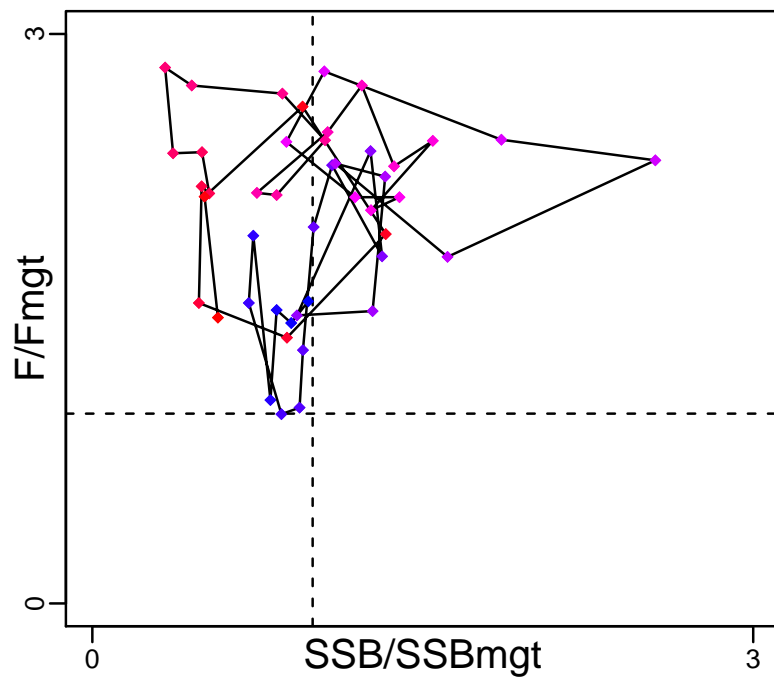
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	10,100	Both	-
<b>SSB</b>	SSB-MT	2016	8040	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	2,740,000	-	1
<b>F</b>	F-1/yr	2016	0.527	-	2 to 5
<b>ER</b>	ER-calc-ratio	2016	0.466	-	-
<b>TC</b>	TC-MT	2016	4720		
<b>TL</b>	TL-MT	2016	4150		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.506		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.78		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.506		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic Cod Celtic Sea [CODVllek]

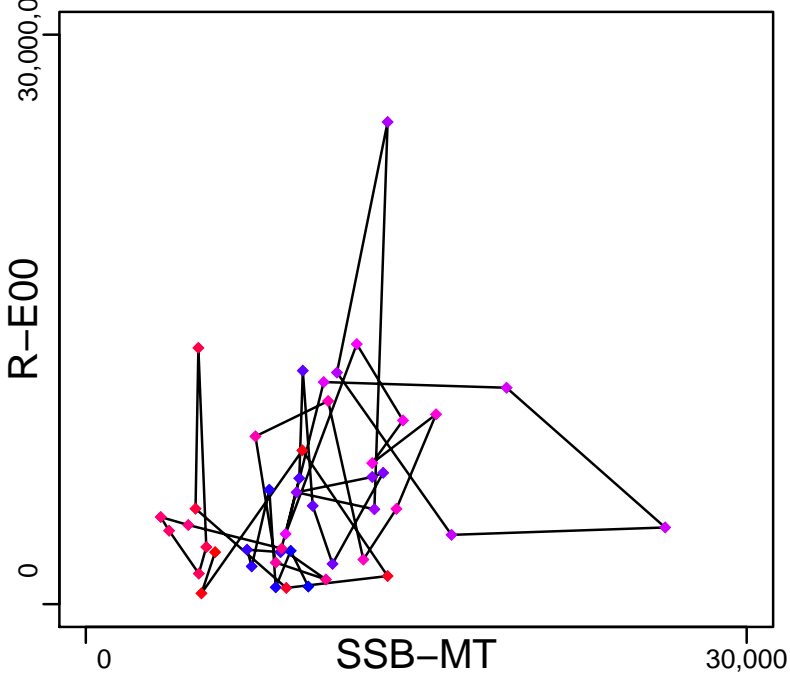
Kobe MSYpref (1970–2016–ICESIMP2016)



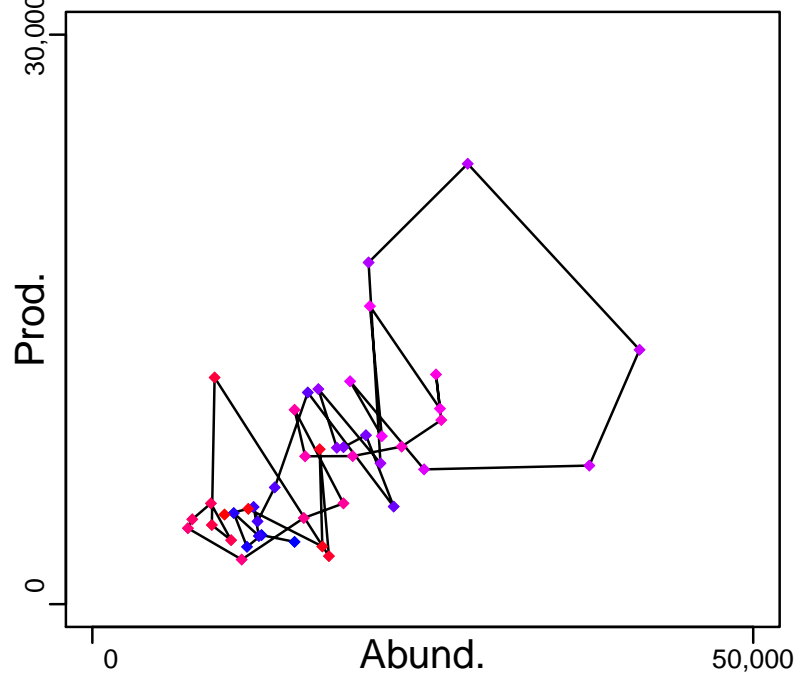
Kobe MGTpref (1970–2016–ICESIMP2016)



Spawner Recruit (1970–2016–ICESIMP2016)



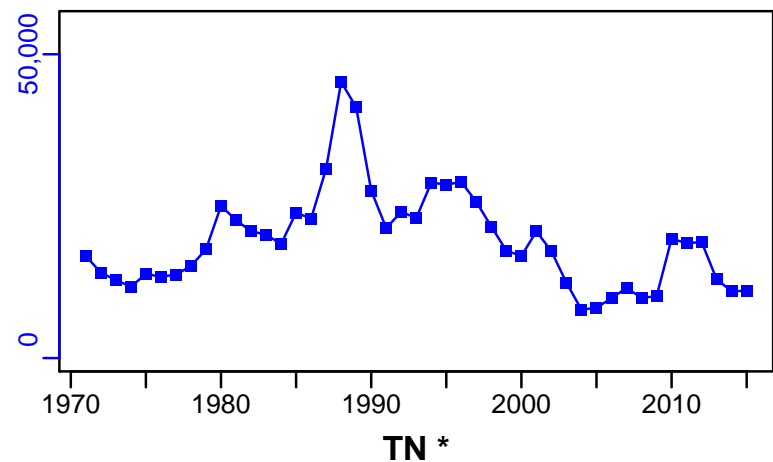
Production (1970–2016–ICESIMP2016)



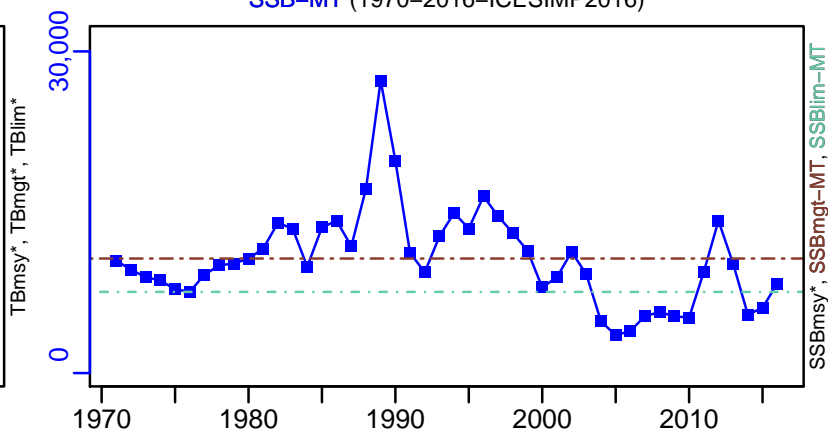
◆ Start Year ◆ End Year \* No Data

# Atlantic Cod Celtic Sea [CODVilek]

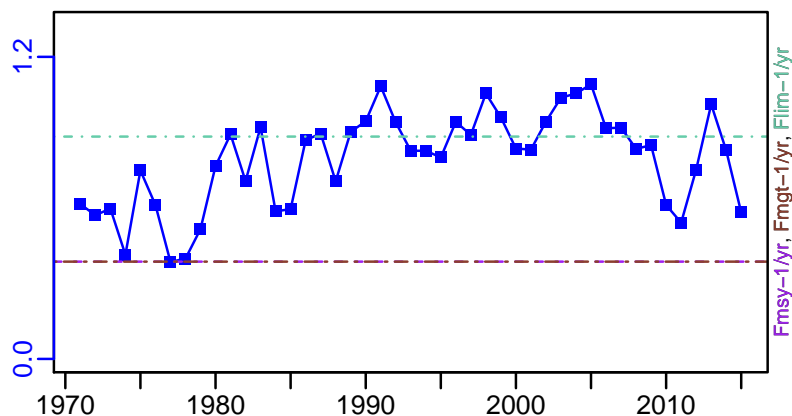
TB-MT (1970–2016–ICESIMP2016)



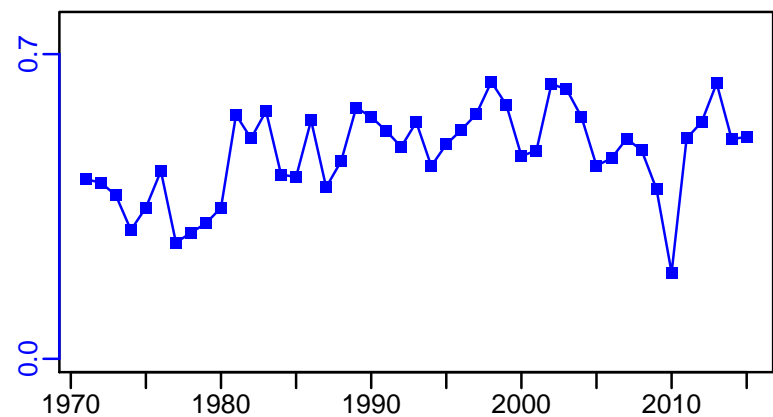
SSB-MT (1970–2016–ICESIMP2016)



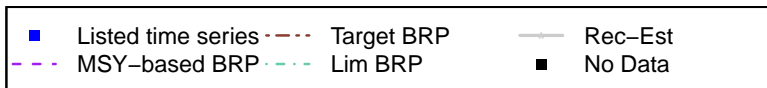
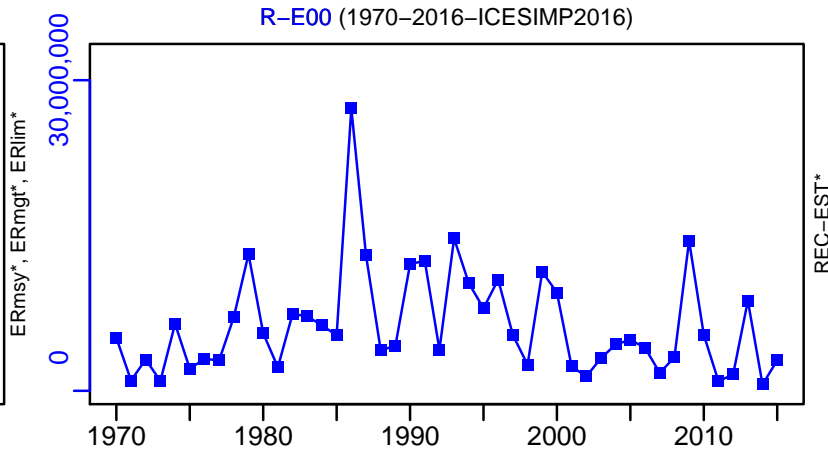
F-1/yr (1970–2016–ICESIMP2016)



ER-calc-ratio (1970–2016–ICESIMP2016)



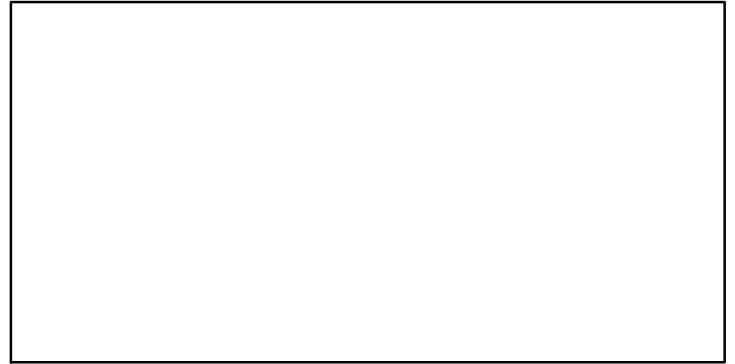
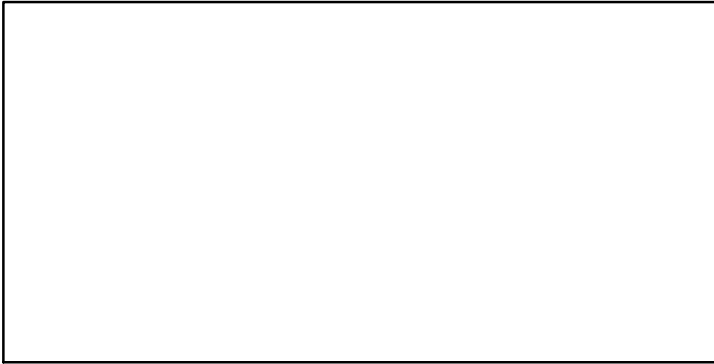
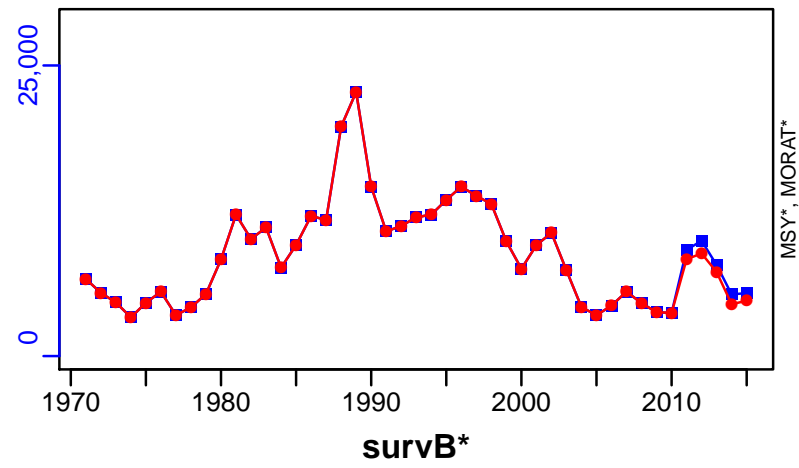
R-E00 (1970–2016–ICESIMP2016)



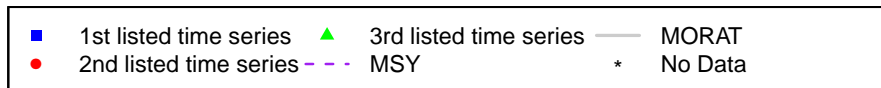
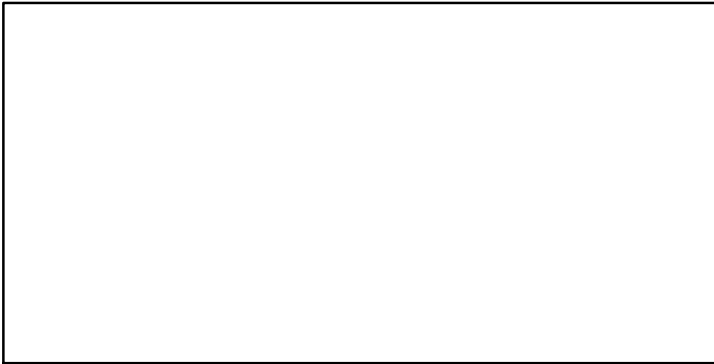
# Atlantic Cod Celtic Sea [CODVllek]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



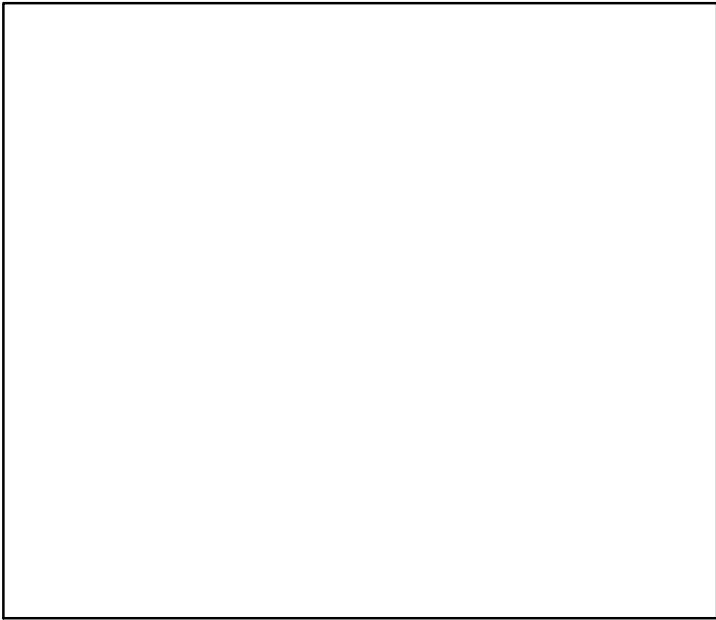
## Tusk Va and XIV [CUSKVa-XIV]

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

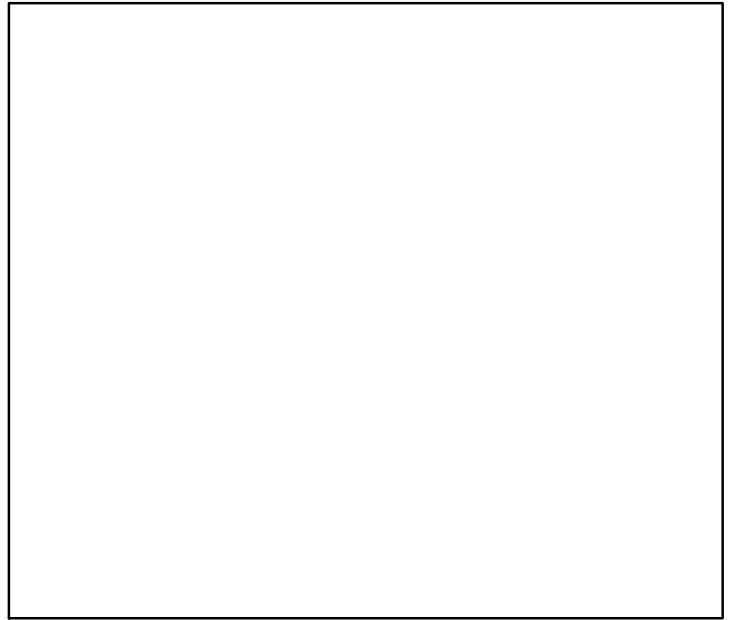
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.2
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2016	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	22,400	Both	-
<b>SSB</b>	SSB-MT	2016	6920	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	10,600,000	-	-
<b>F</b>	F-1/yr	2016	0.22	-	-
<b>ER</b>	ER-calc-ratio	2016	0.215	-	-
<b>TC</b>	TC-MT	2016	4820		
<b>TL</b>	TL-MT	2014	6260		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.1		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.1		
<b>ER/ERmgt</b>	-	-	-		

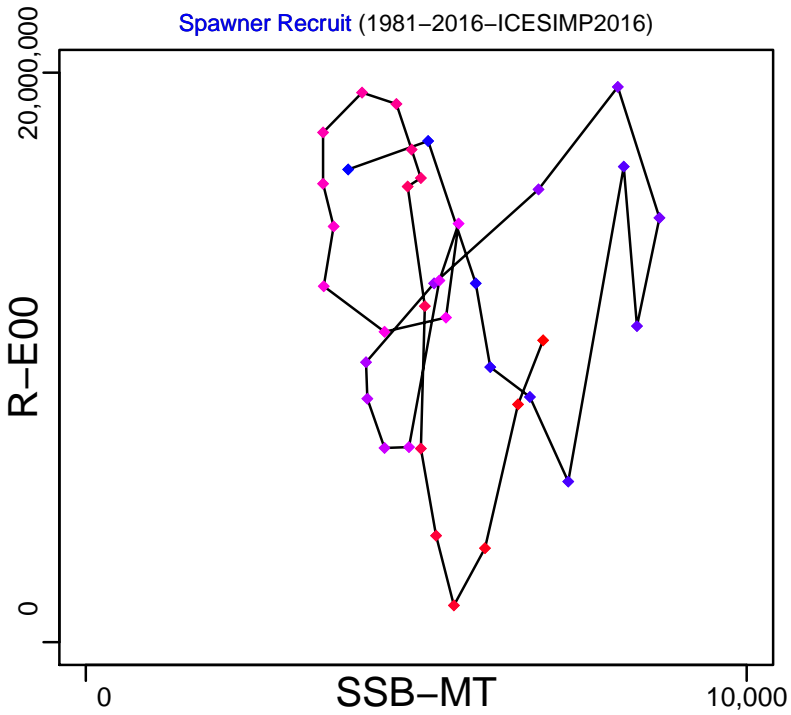
Kobe MSY\*



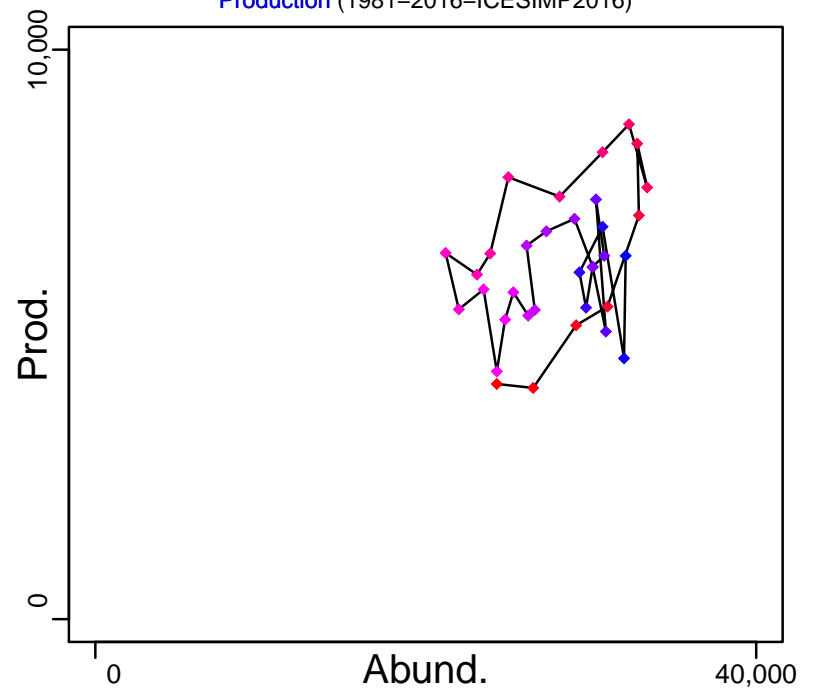
Kobe MGT\*



Spawner Recruit (1981–2016–ICESIMP2016)



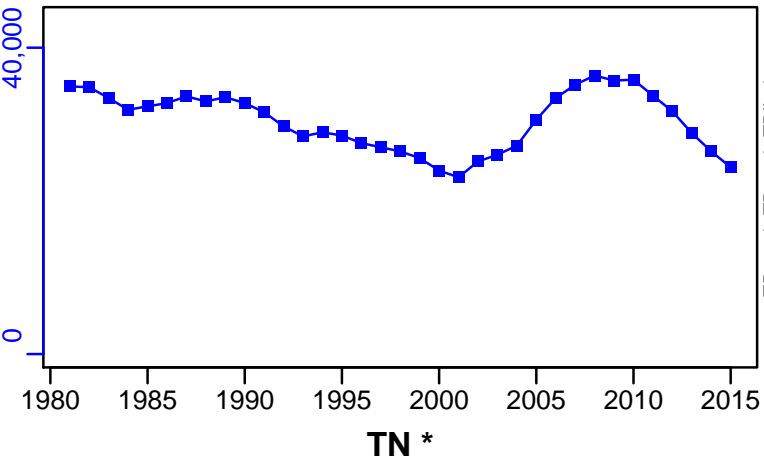
Production (1981–2016–ICESIMP2016)



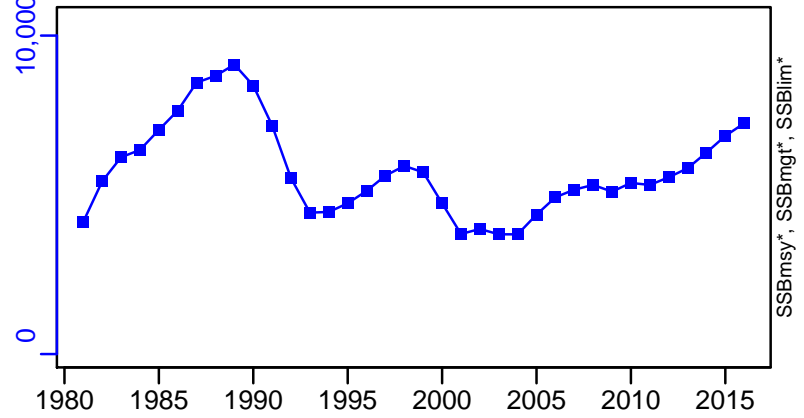
◆ Start Year ◆ End Year \* No Data

# Tusk Va and XIV [CUSKVa–XIV]

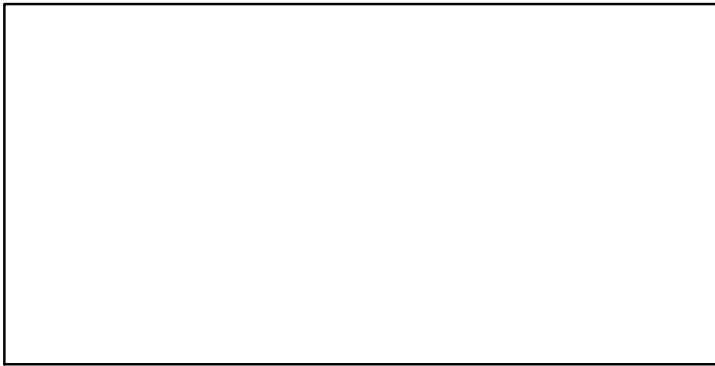
TB–MT (1981–2016–ICESIMP2016)



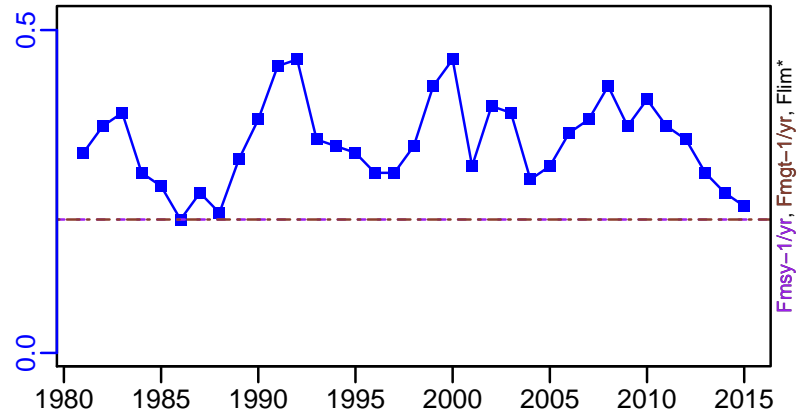
SSB–MT (1981–2016–ICESIMP2016)



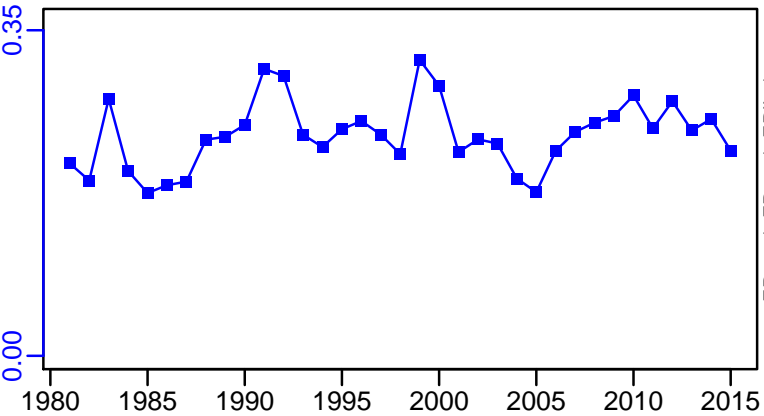
TN \*



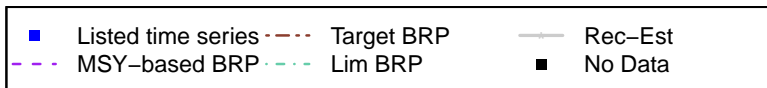
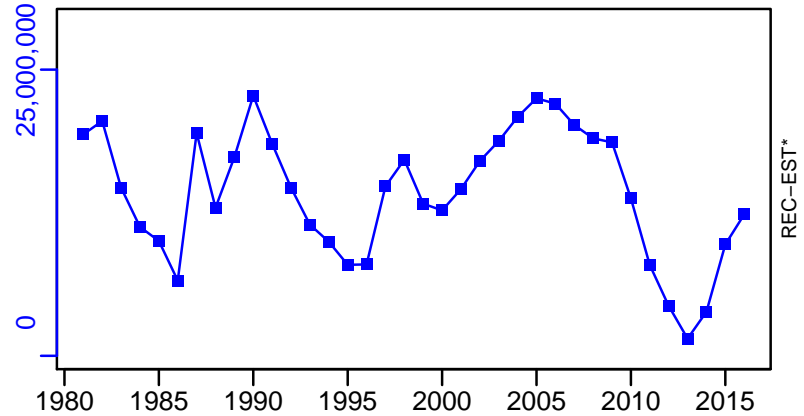
F–1/yr (1981–2016–ICESIMP2016)



ER–calc–ratio (1981–2016–ICESIMP2016)

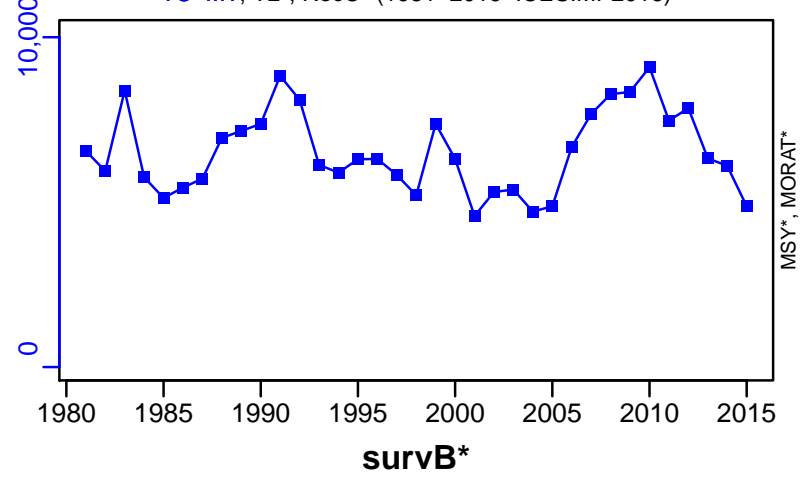


R–E00 (1981–2016–ICESIMP2016)

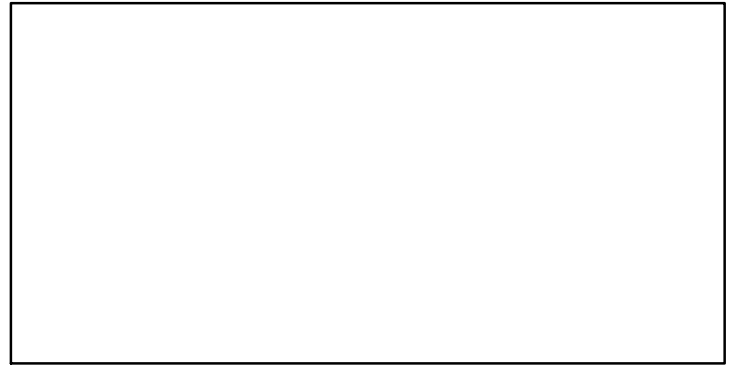


# Tusk Va and XIV [CUSKV<sub>a</sub>–XIV]

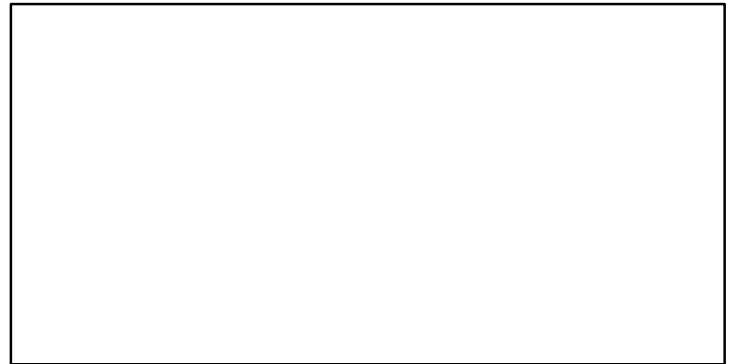
TC–MT, TL\*, RecC\* (1981–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



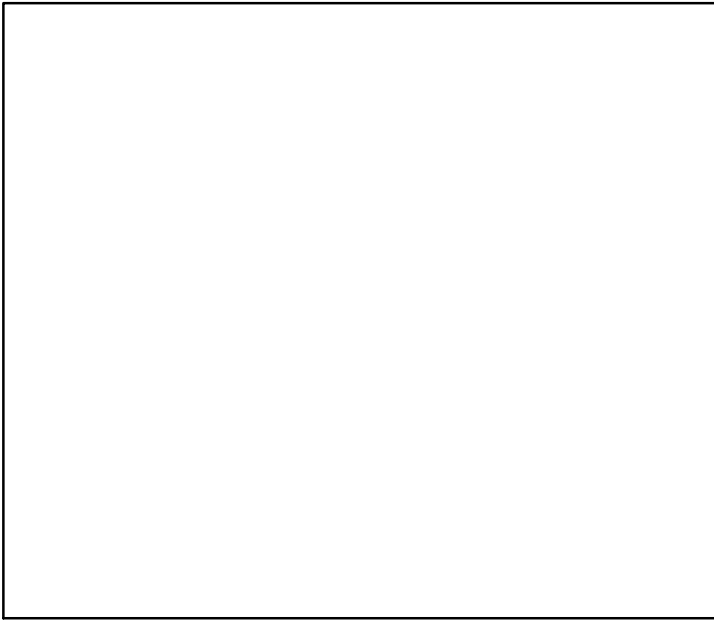
## Tusk Rockall Bank [CUSKVlb]

Metadata	
<b>Scientific Name</b>	Brosme brosme
<b>Current Assess ID</b>	WGDEEP-CUSKVlb-1988-2016-ICESIMP2016
<b>Area</b>	Rockall Bank
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016

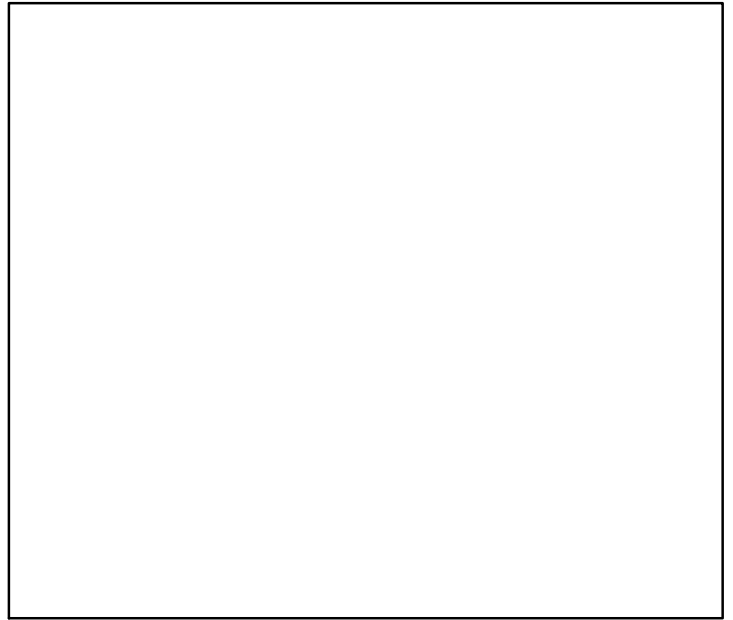
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

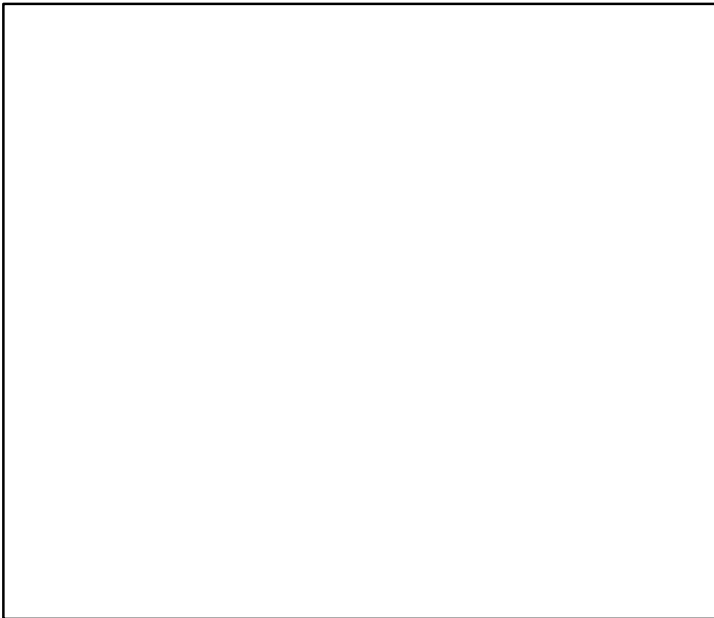
**Kobe MSY\***



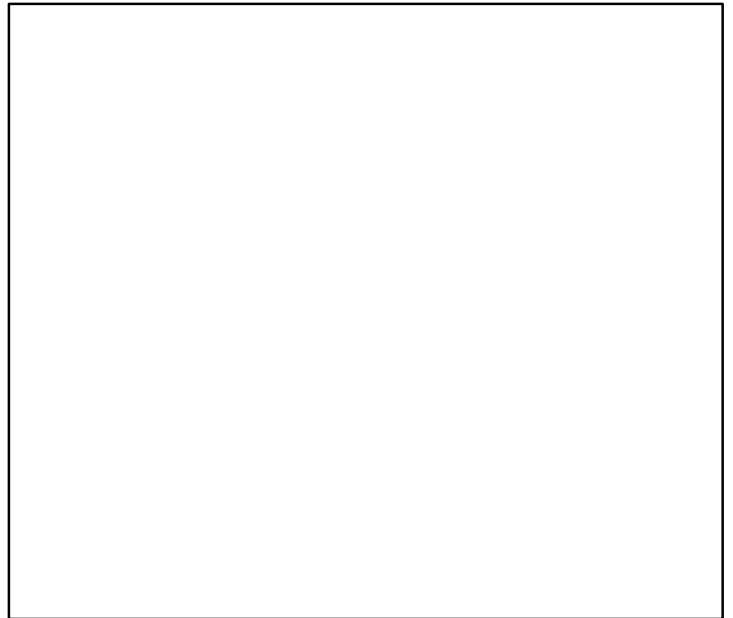
**Kobe MGT\***



**Spawner Recruit\***



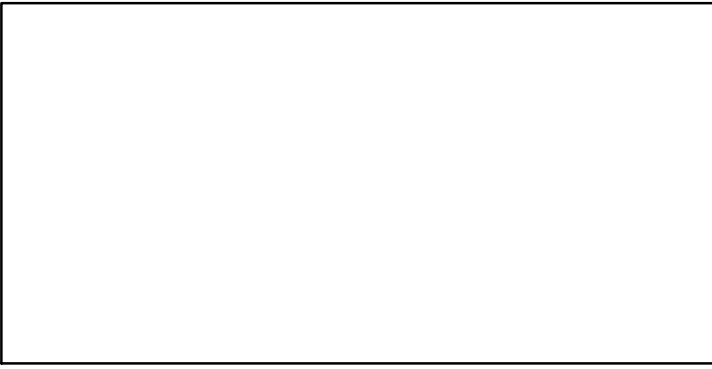
**Production\***



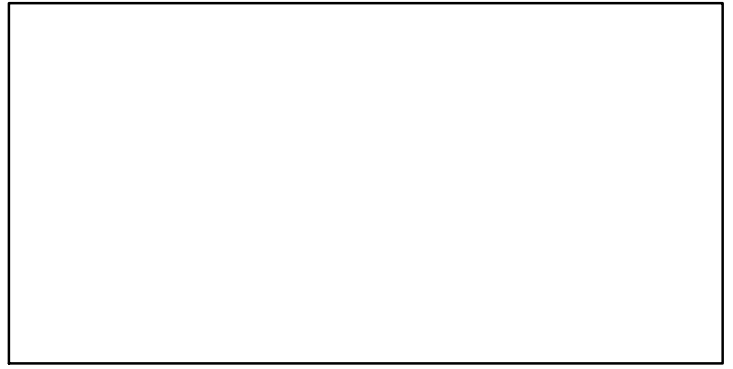
◆ Start Year ◆ End Year \* No Data

Tusk Rockall Bank [CUSKVlb]

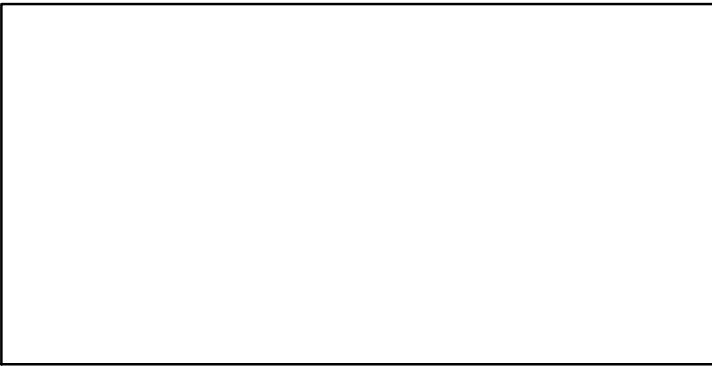
**TB\***



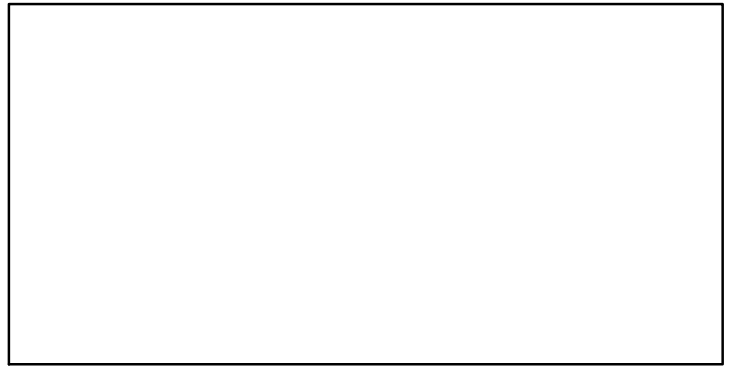
**SSB\***



**TN \***



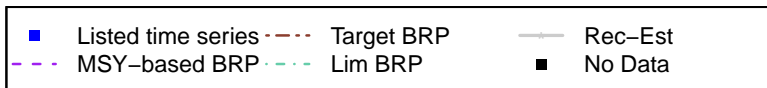
**F\***



**ER\***

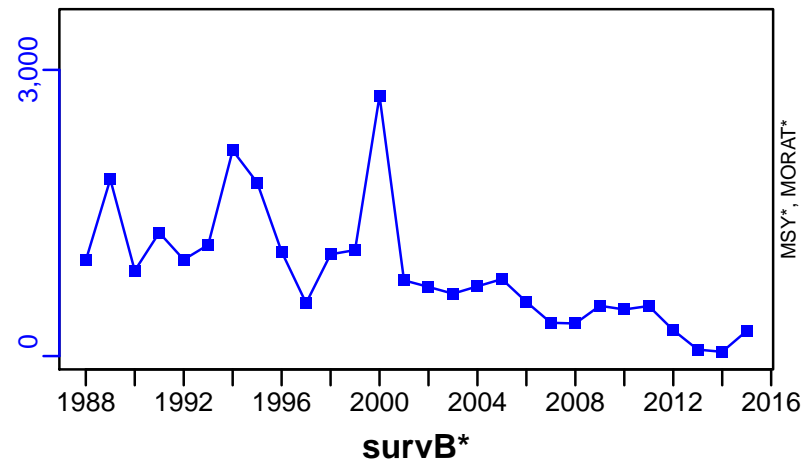


**Recruits\***

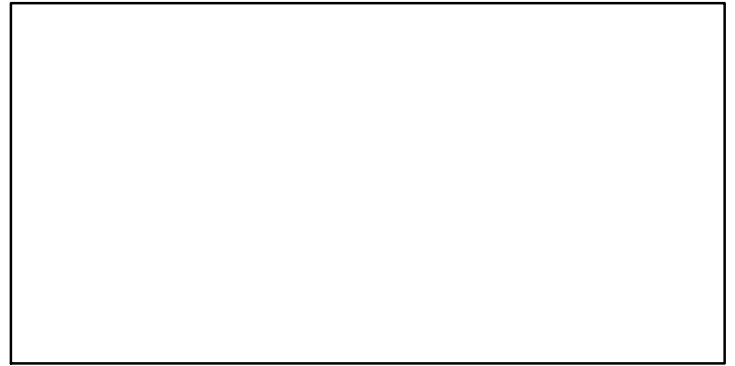


Tusk Rockall Bank [CUSKVlb]

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

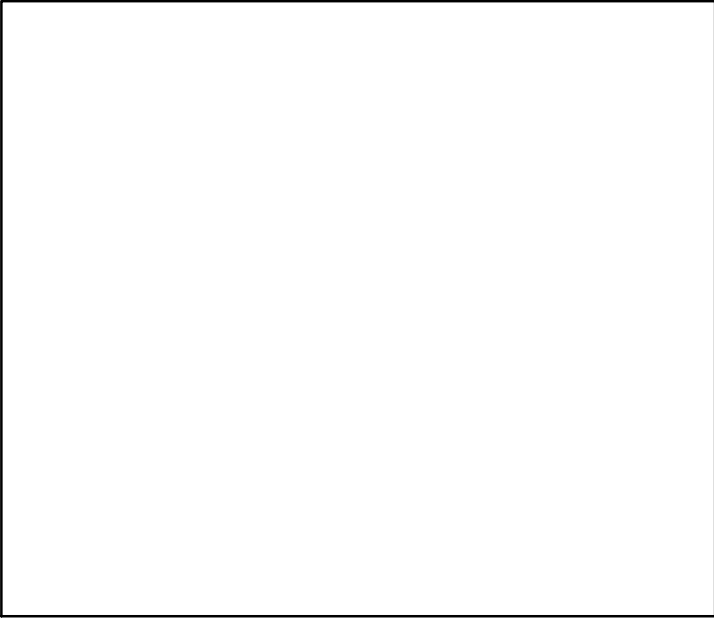
## Tusk North of Azores [CUSKXII]

Metadata	
<b>Scientific Name</b>	Brosme brosme
<b>Current Assess ID</b>	WGDEEP-CUSKXII-1988-2015-ICESIMP2016
<b>Area</b>	North of Azores
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2015

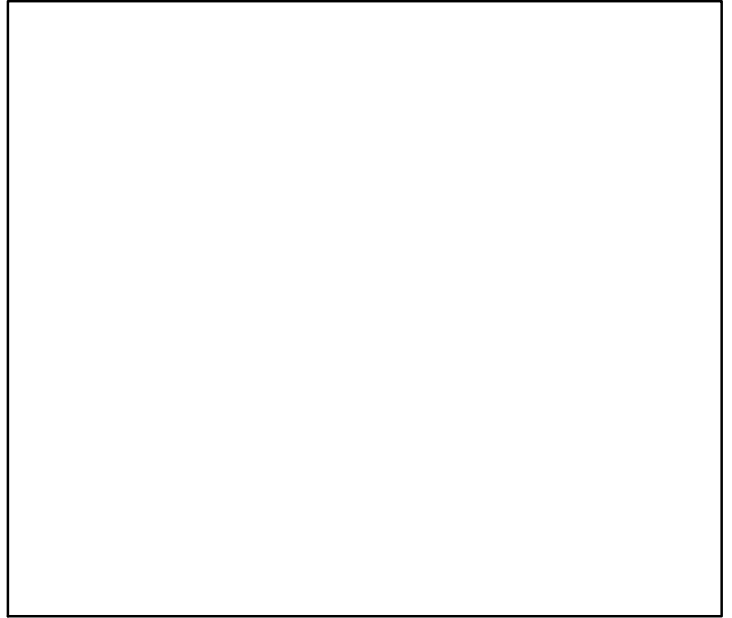
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

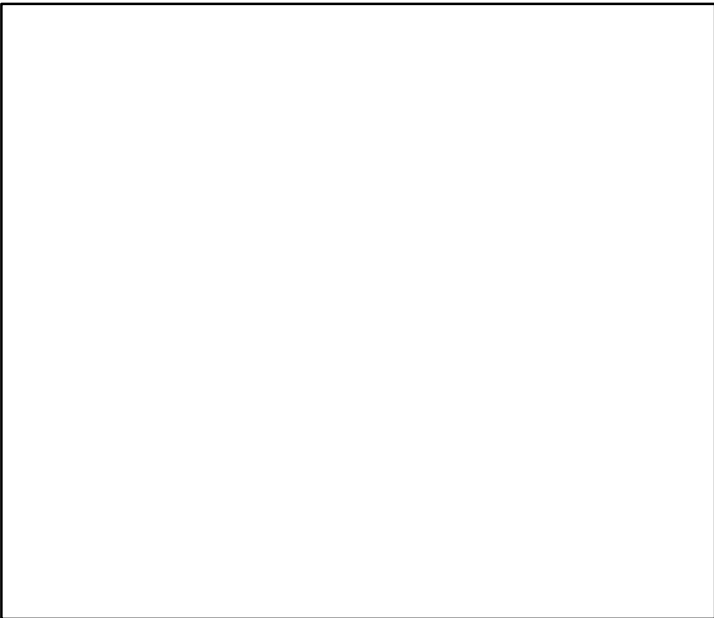
**Kobe MSY\***



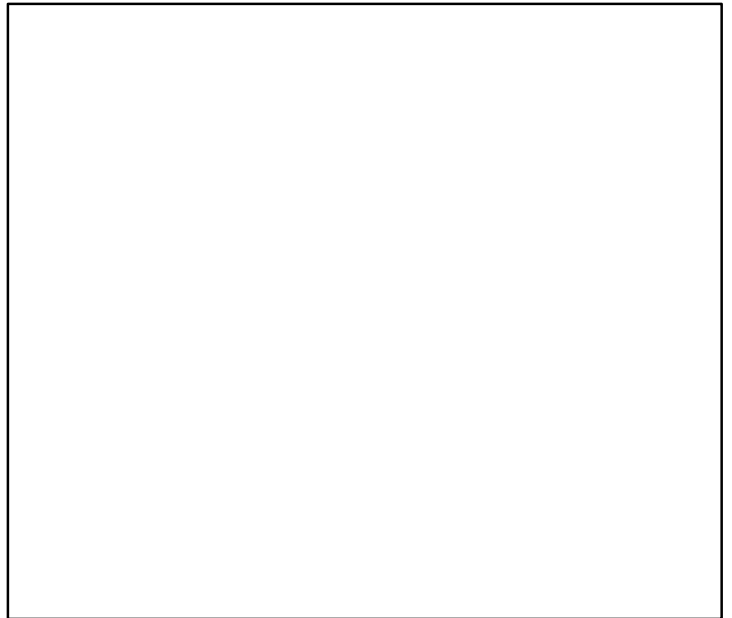
**Kobe MGT\***



**Spawner Recruit\***



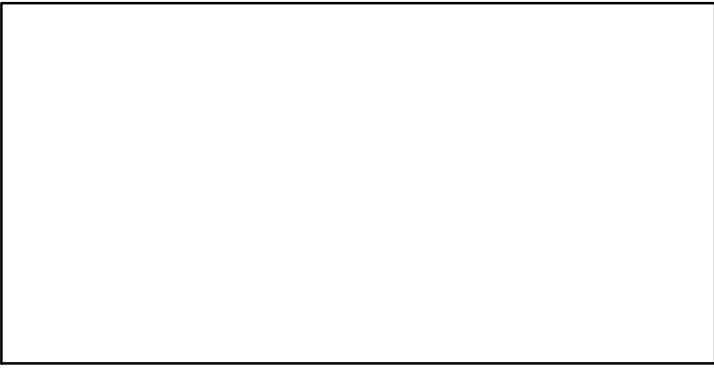
**Production\***



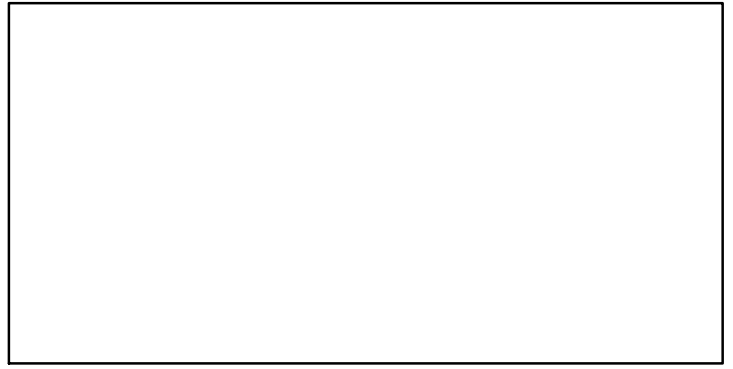
◆ Start Year   ◆ End Year   \* No Data

Tusk North of Azores [CUSKXII]

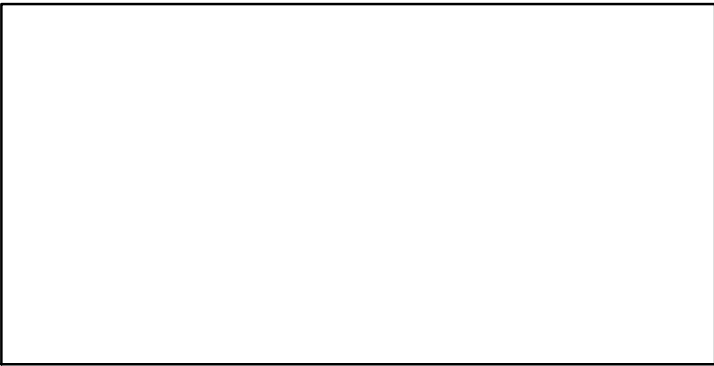
**TB\***



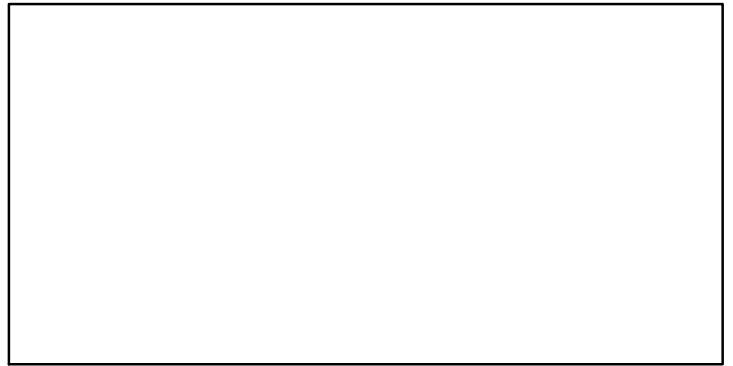
**SSB\***



**TN \***



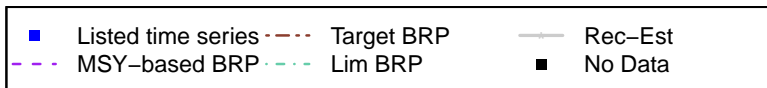
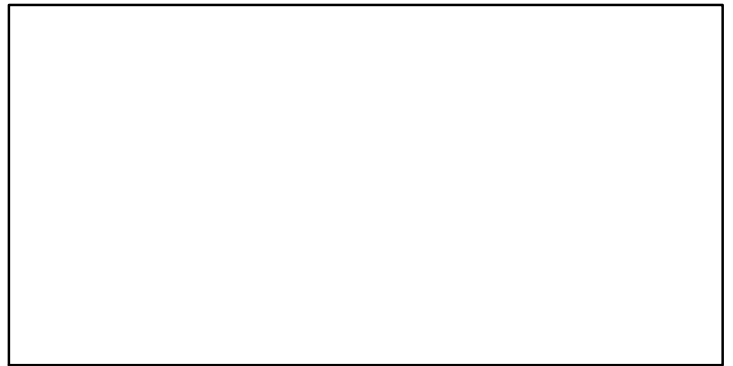
**F\***



**ER\***

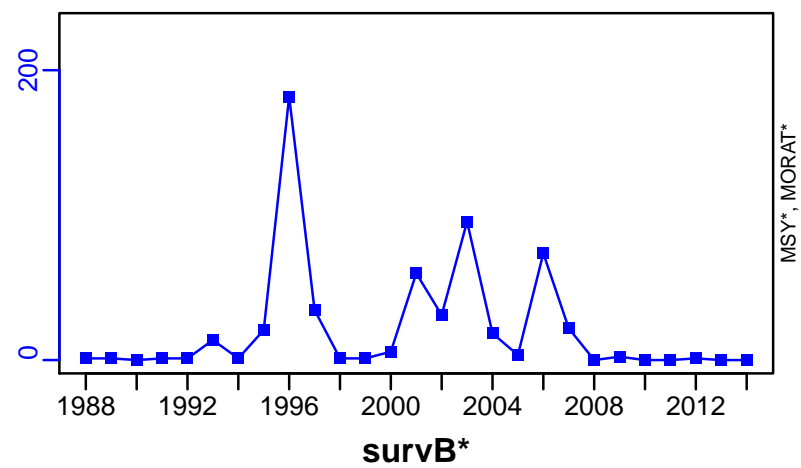


**Recruits\***

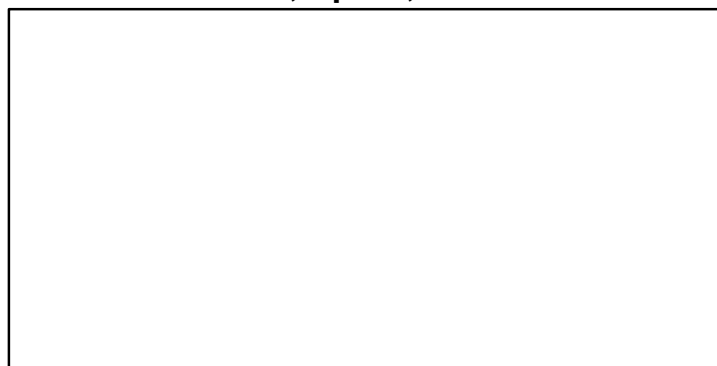


# Tusk North of Azores [CUSKXII]

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



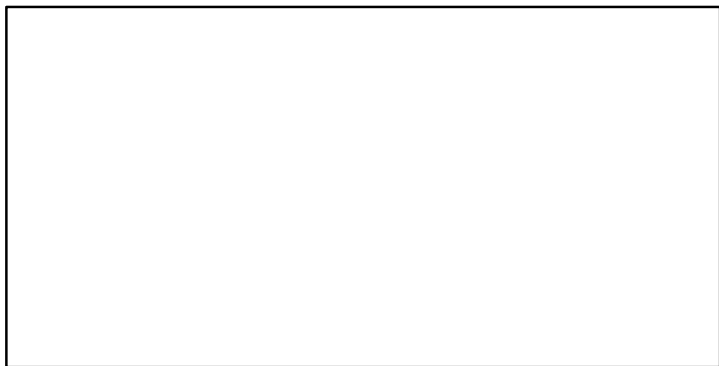
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



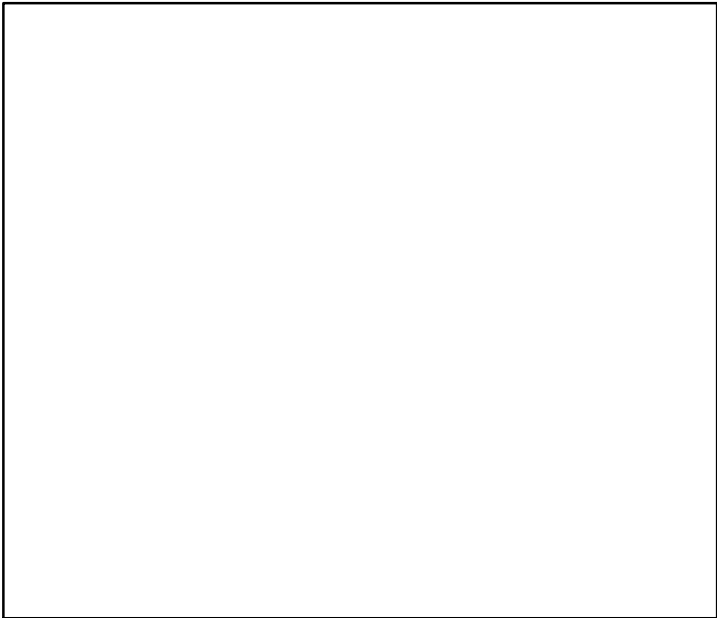
## Dab VII-VIIIabd [DAB2232]

Metadata	
<b>Scientific Name</b>	Limanda limanda
<b>Current Assess ID</b>	WGBFAS-DAB2232-1970-2016-ICESIMP2016
<b>Area</b>	Baltic Areas 22-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

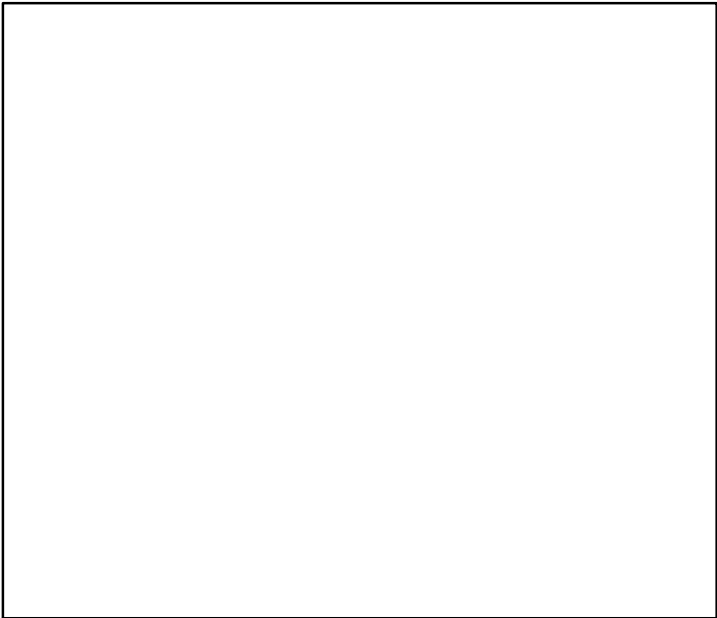
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

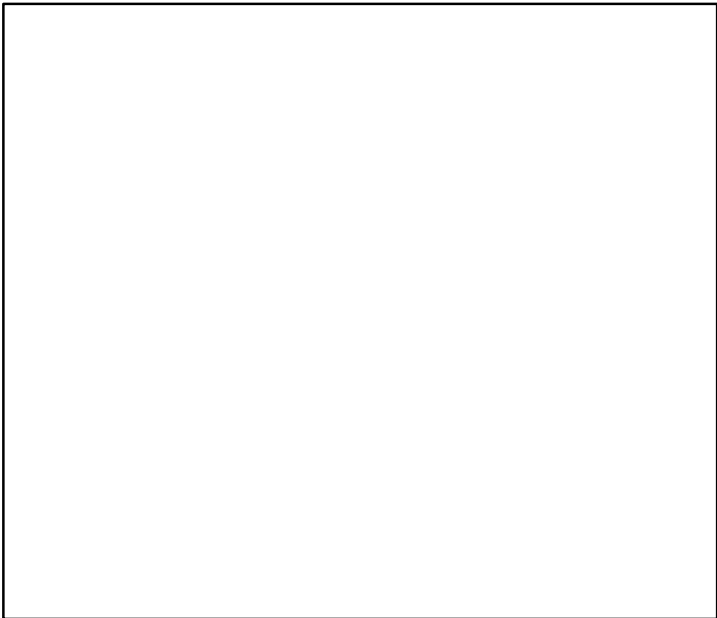
**Kobe MSY\***



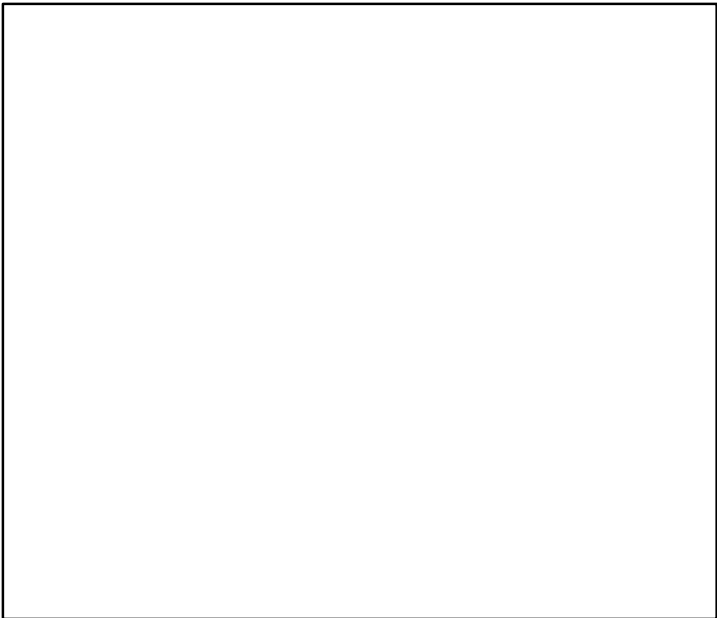
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

**TB\***



**SSB\***



**TN \***



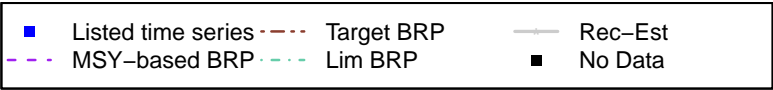
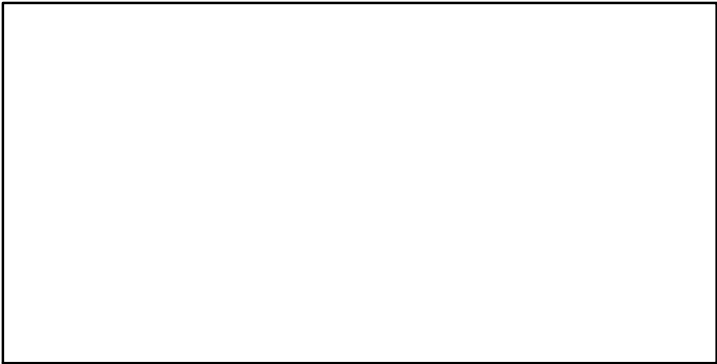
**F\***



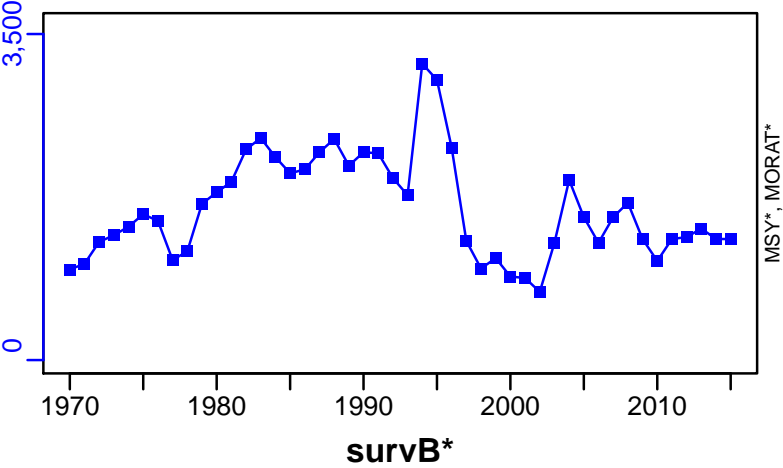
**ER\***



**Recruits\***



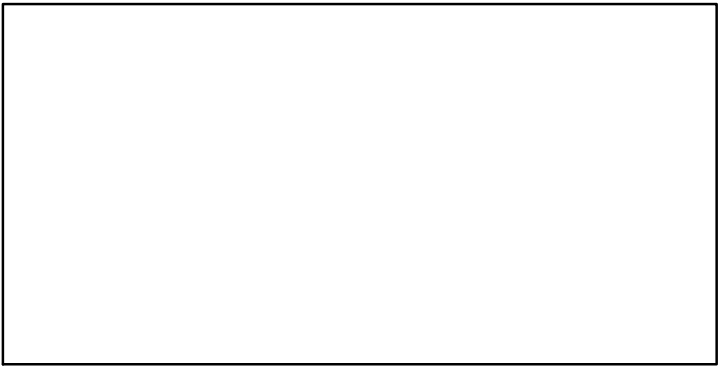
TL–MT, TC\*, RecC\* (1970–2016–ICESIMP2016)



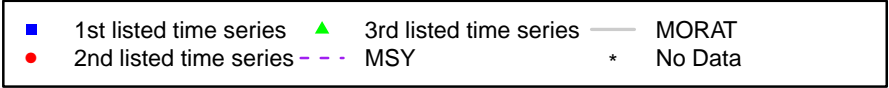
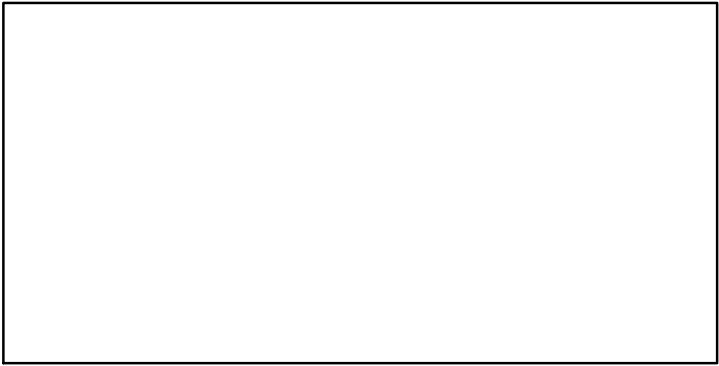
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## European seabass IVbc and VII [EBASSIVbc-VII]

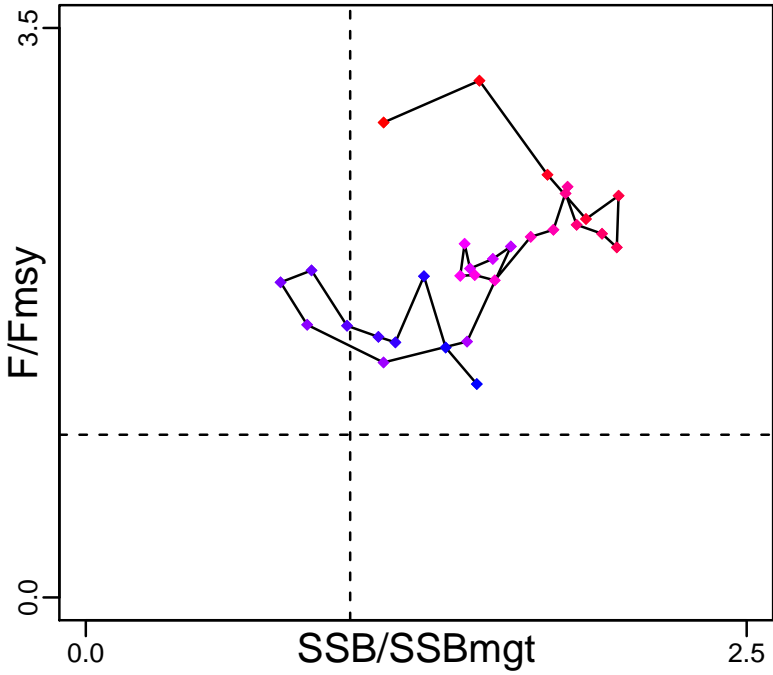
Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGCSE-EBASSIVbc-VII-1985-2016-ICESIMP2016
<b>Area</b>	IVbc and VII
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>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

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

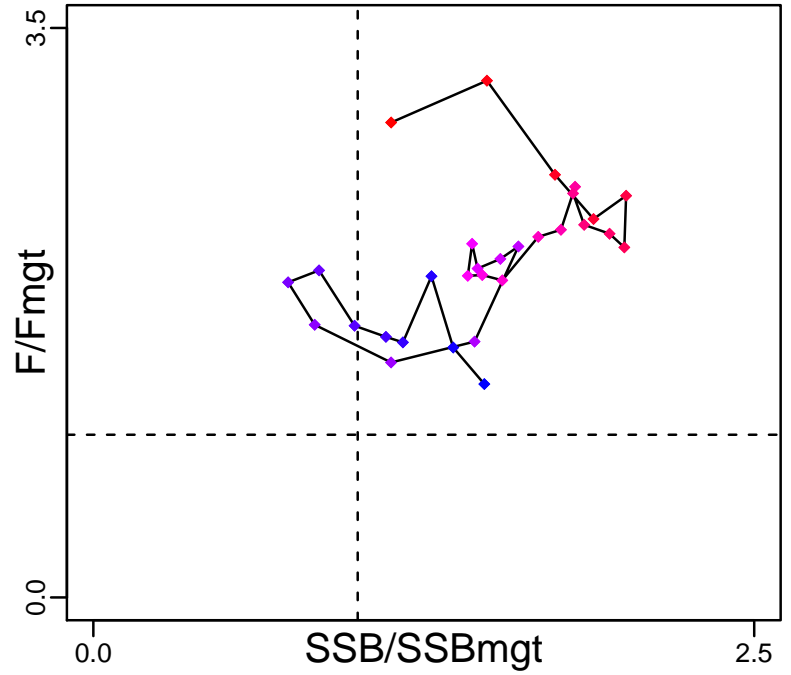
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	9290	Both	-
<b>SSB</b>	SSB-MT	2016	7320	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	6,470,000	-	0
<b>F</b>	F-1/yr	2016	0.303	-	5 to 11
<b>ER</b>	ER-calc-ratio	2015	0.235	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	2840		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	2.919		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.578		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.919		
<b>ER/ERmgt</b>	-	-	-		

# European seabass IVbc and VII [EBASSIVbc-VII]

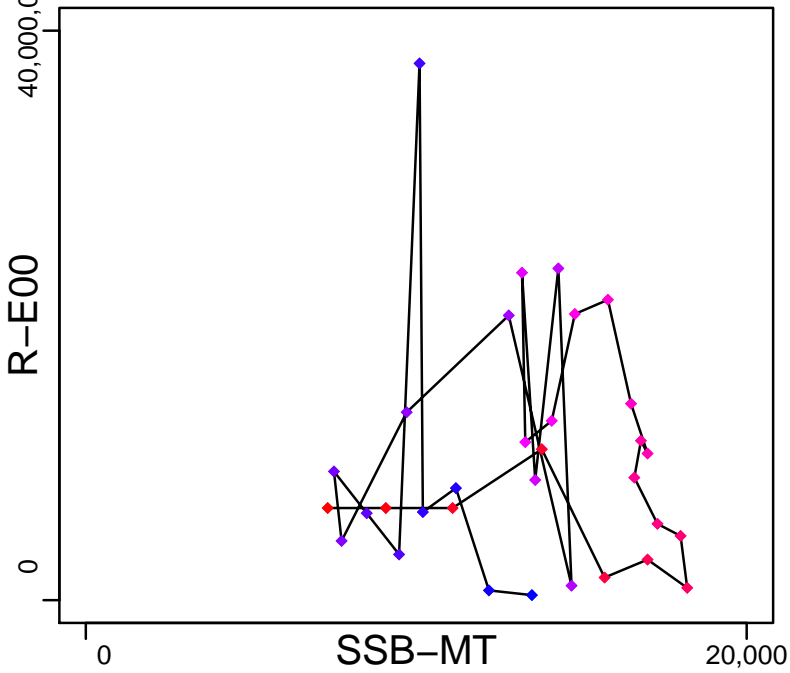
Kobe MSYpref (1985–2015–ICESIMP2016)



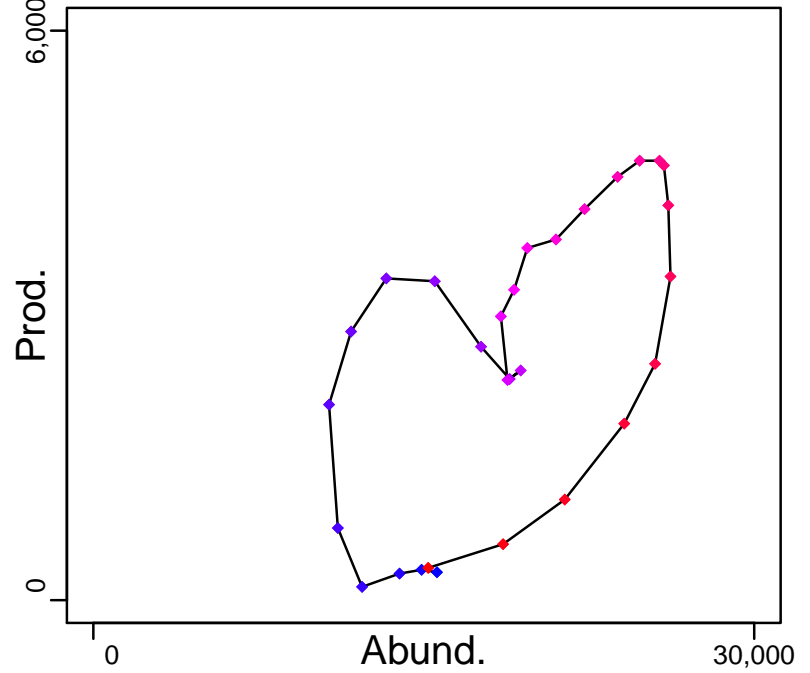
Kobe MGTpref (1985–2015–ICESIMP2016)



Spawner Recruit (1985–2016–ICESIMP2016)



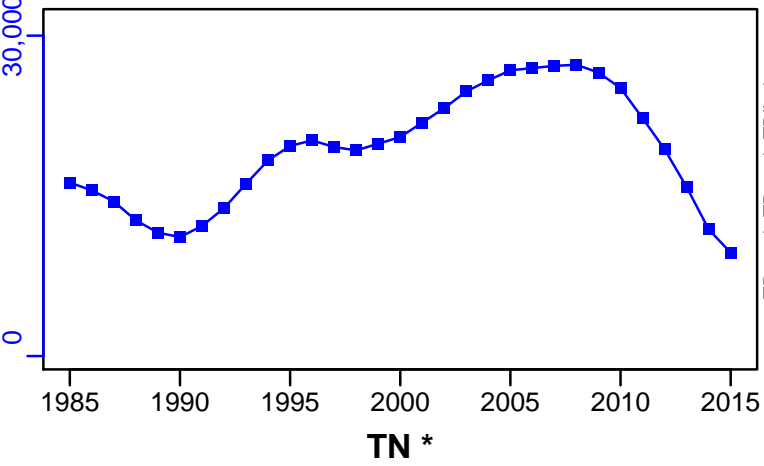
Production (1985–2015–ICESIMP2016)



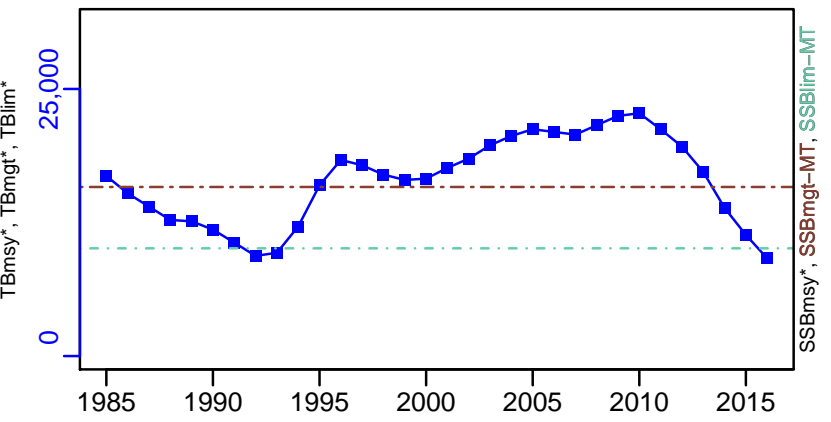
◆ Start Year ◆ End Year \* No Data

# European seabass IVbc and VII [EBASSIVbc-VII]

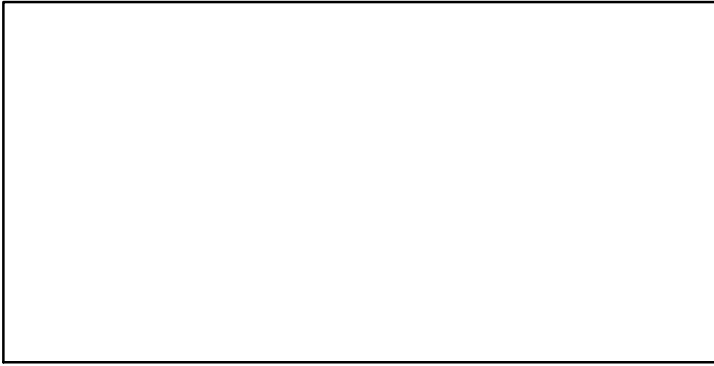
TB-MT (1985–2015–ICESIMP2016)



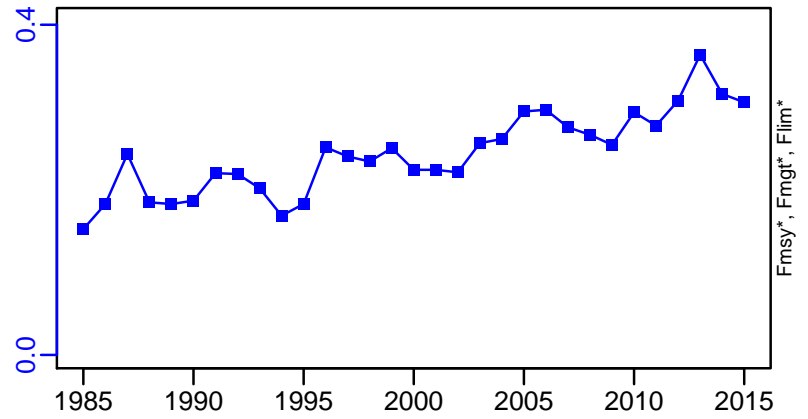
SSB-MT (1985–2016–ICESIMP2016)



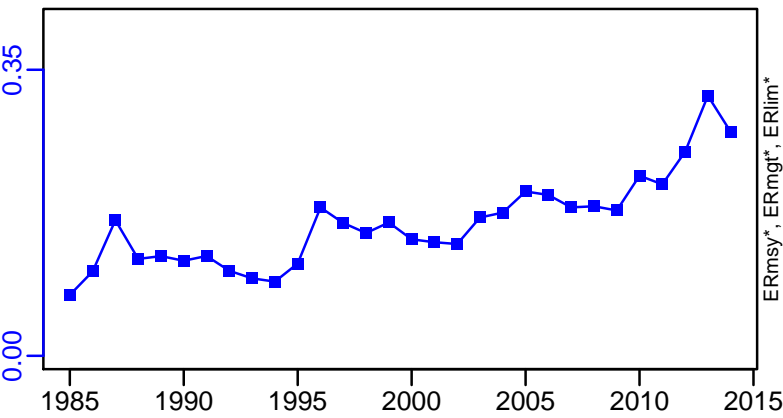
TN \*



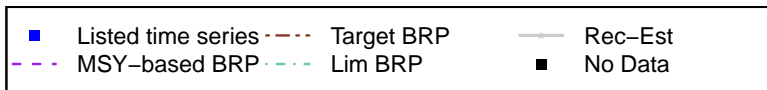
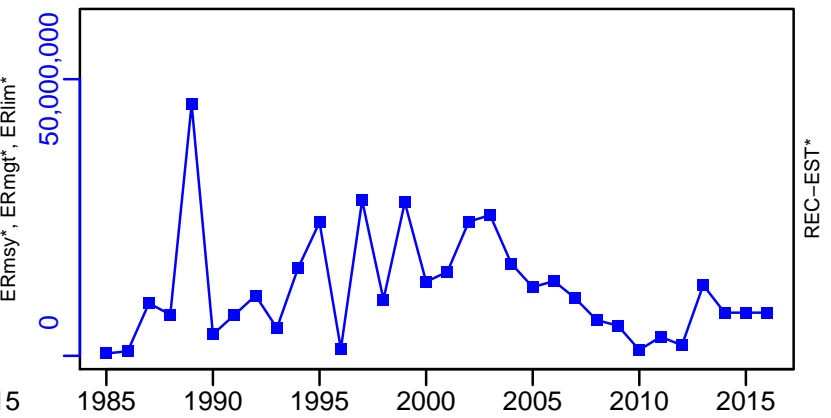
F-1/yr (1985–2016–ICESIMP2016)



ER-calc-ratio (1985–2015–ICESIMP2016)



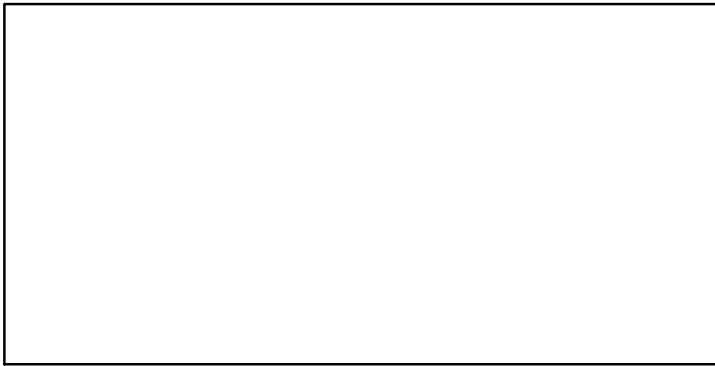
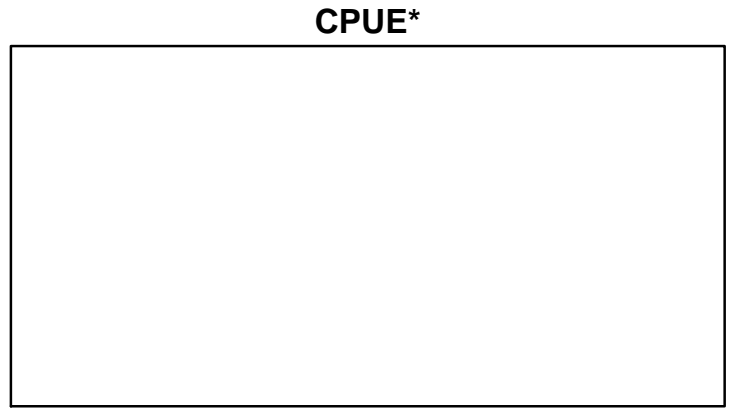
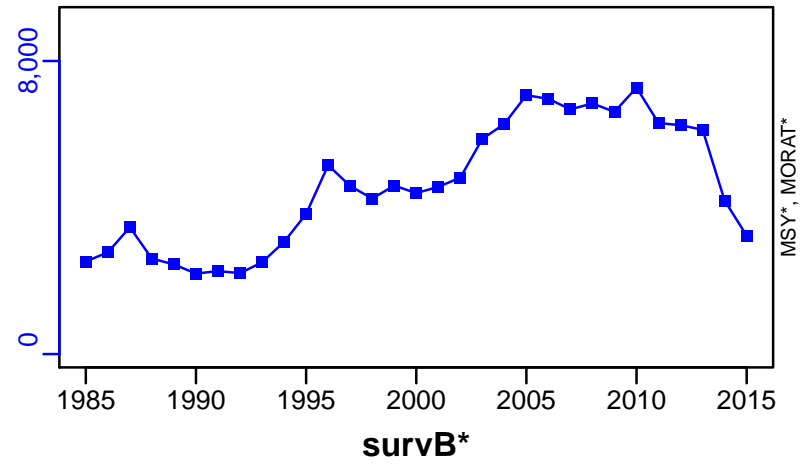
R-E00 (1985–2016–ICESIMP2016)



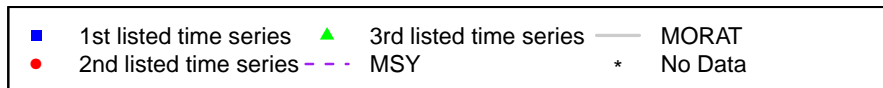
# European seabass IVbc and VII [EBASSIVbc-VII]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





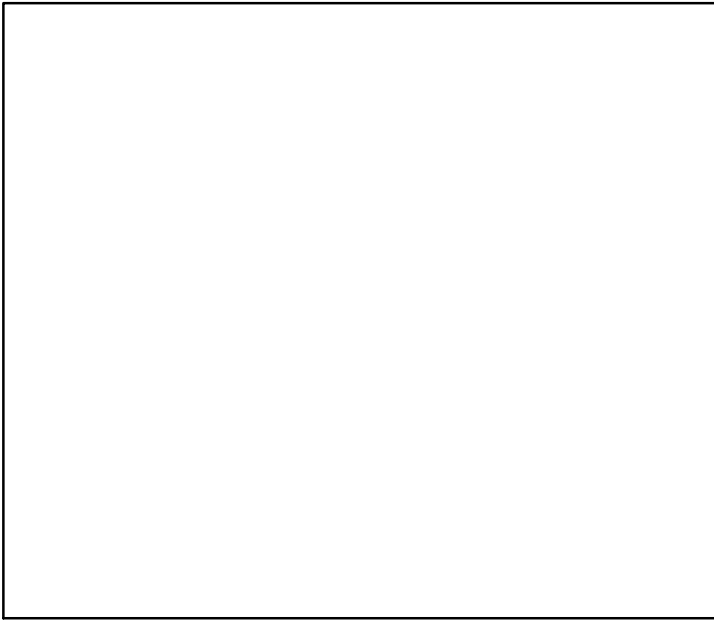
## European seabass VIa and VIIb-j [EBASSVIa-VIIb-j]

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

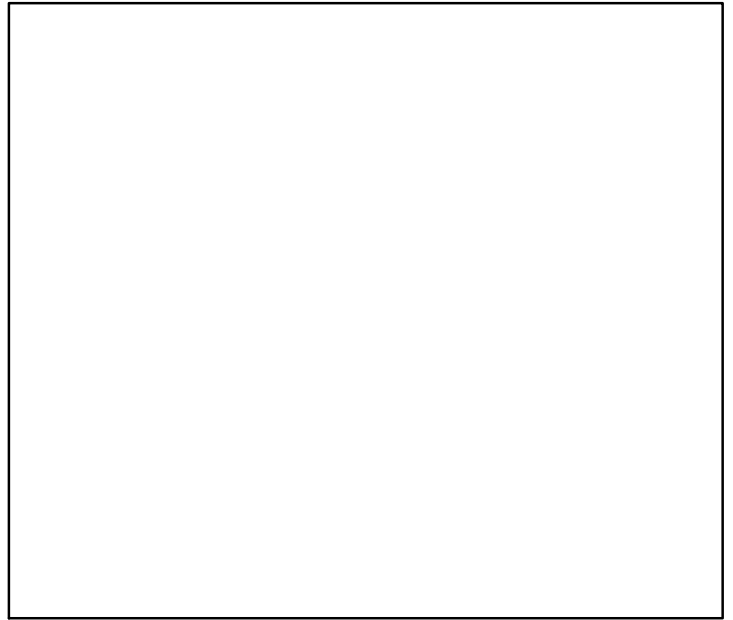
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

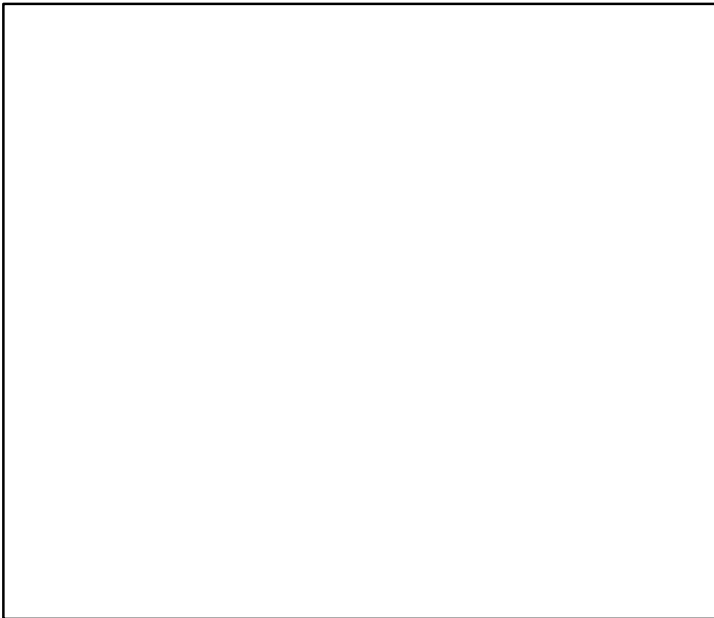
**Kobe MSY\***



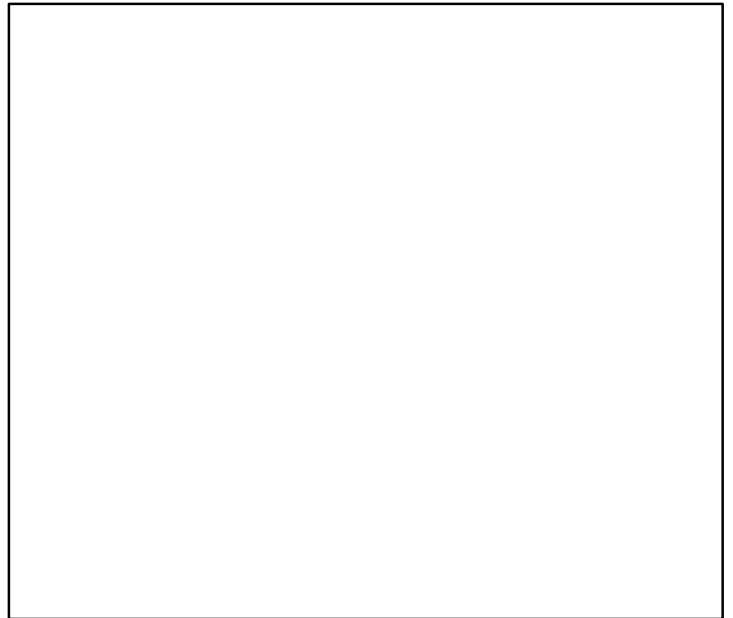
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

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

TB\*



SSB\*



TN \*



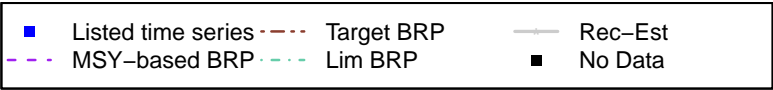
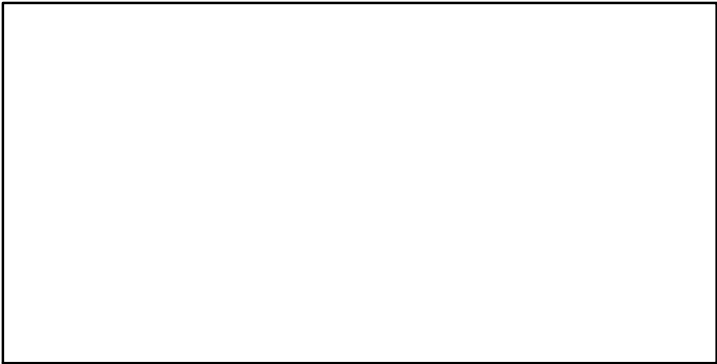
F\*



ER\*



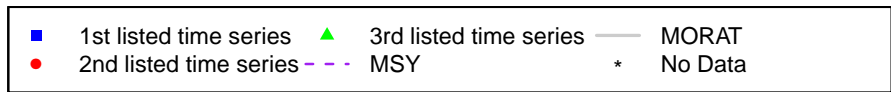
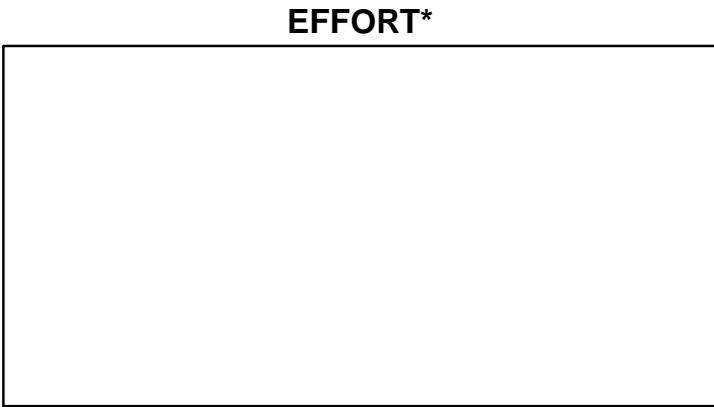
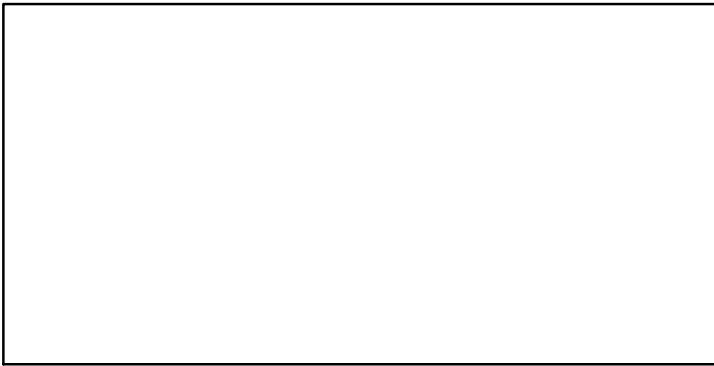
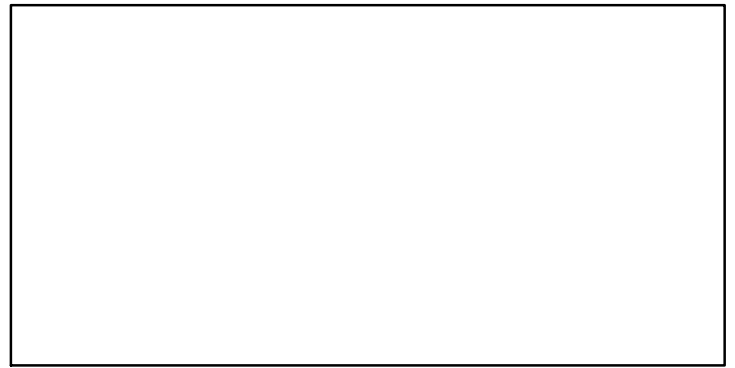
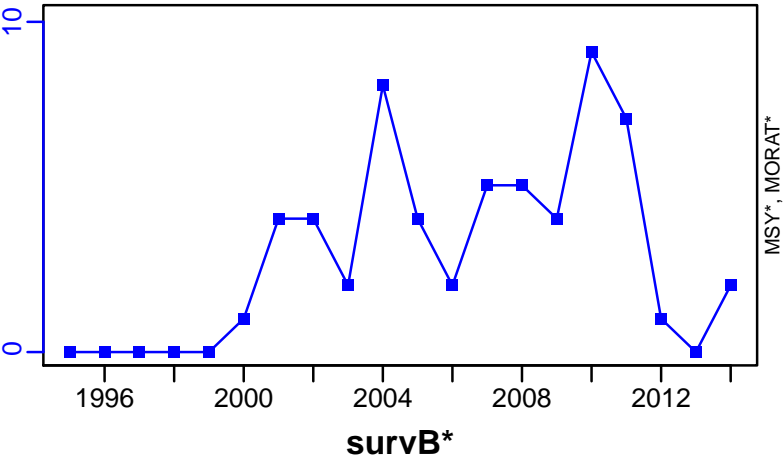
Recruits\*



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

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

TAC\*, Cpair\*, Cadv\*



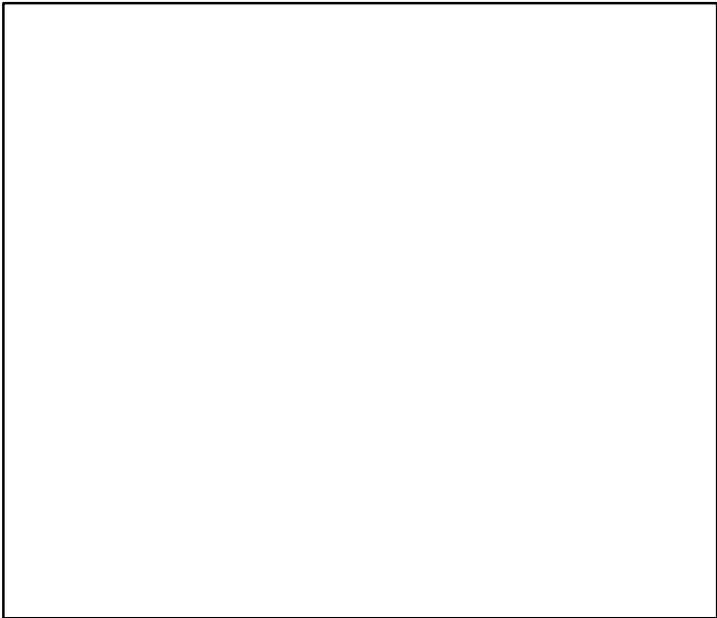
## European seabass VIIIc and IXa [EBASSVIIIc-IXa]

Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	WGBIE-EBASSVIIIc-IXa-1978-2015-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2015

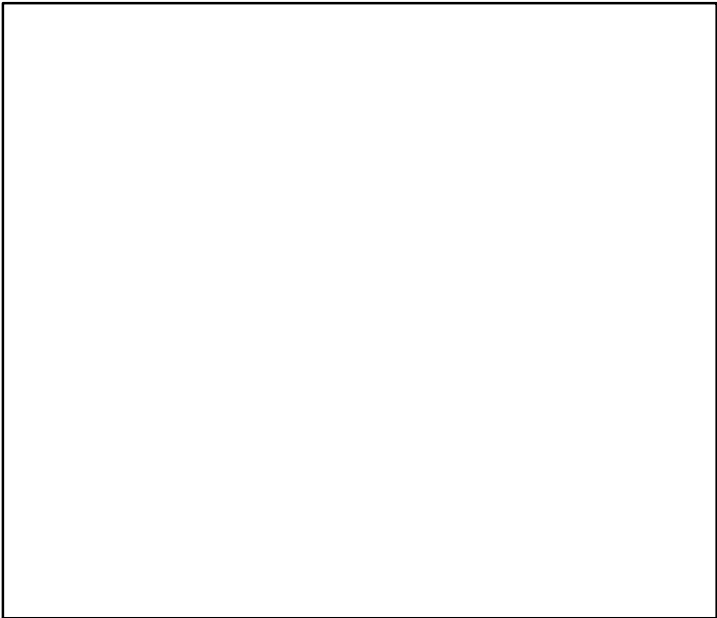
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

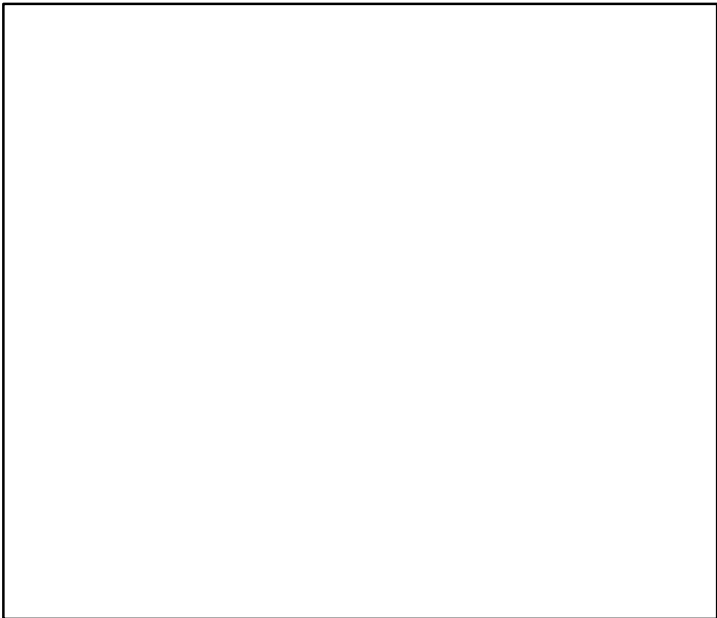
Kobe MSY\*



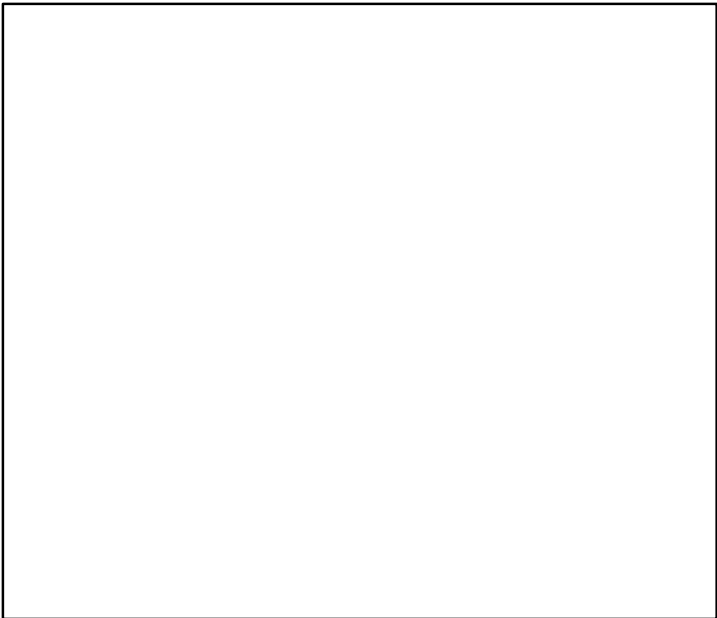
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

European seabass VIIIc and IXa [EBASSVIIIc-IXa]

TB\*



SSB\*



TN \*



F\*



ER\*



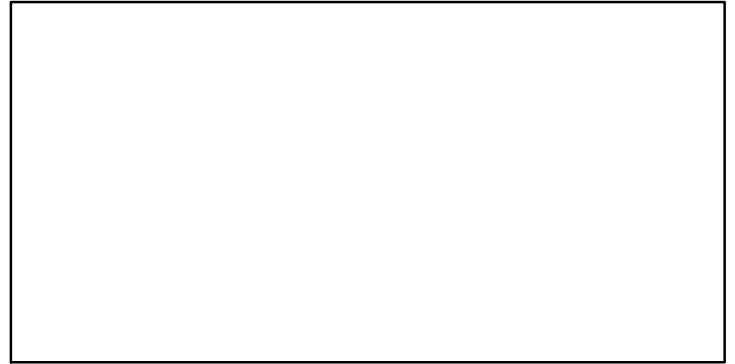
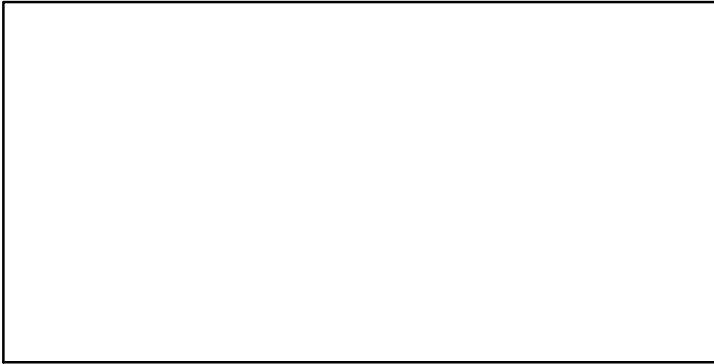
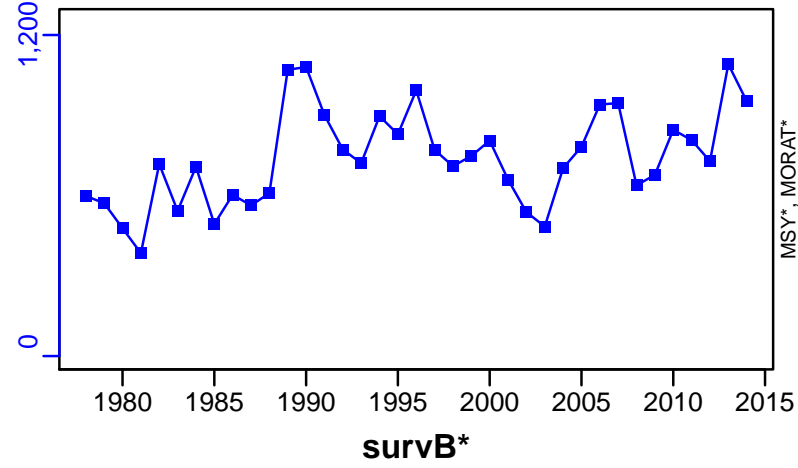
Recruits\*



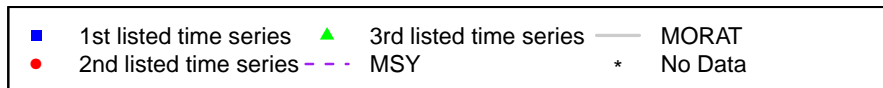
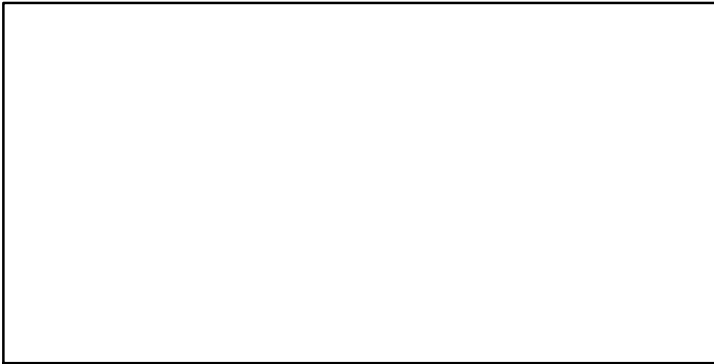
# European seabass VIIIc and IXa [EBASSVIIIc-IXa]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





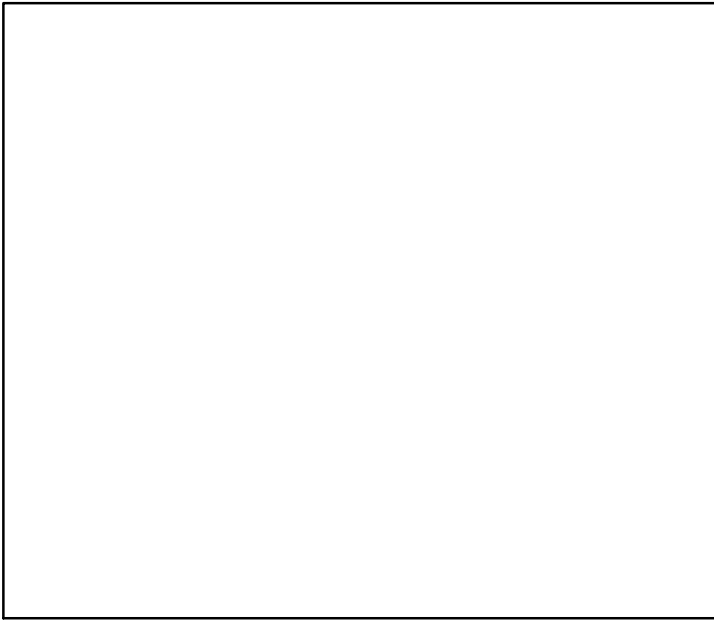
## European flounder Subdivisions 22-23 [EFLOUN2223]

Metadata	
<b>Scientific Name</b>	Platichthys flesus
<b>Current Assess ID</b>	WGBFAS-EFLOUN2223-1973-2016-ICESIMP2016
<b>Area</b>	Subdivisions 22-23
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

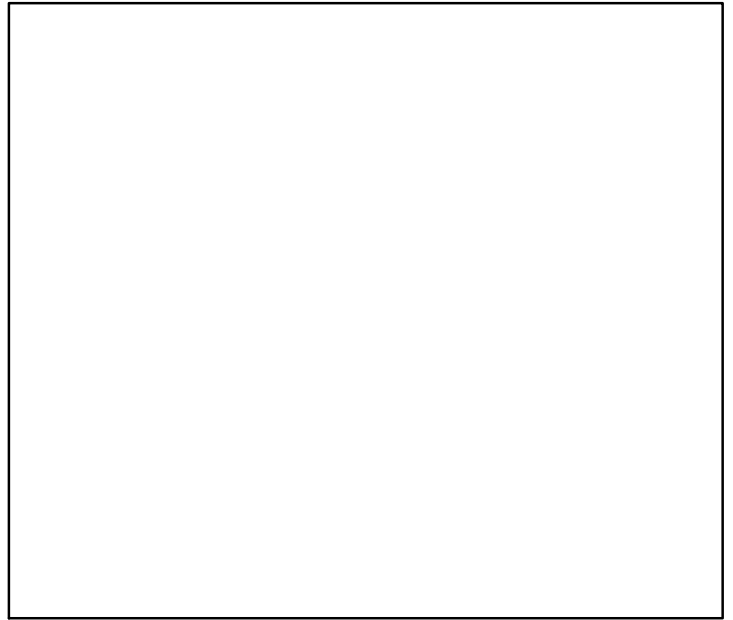
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

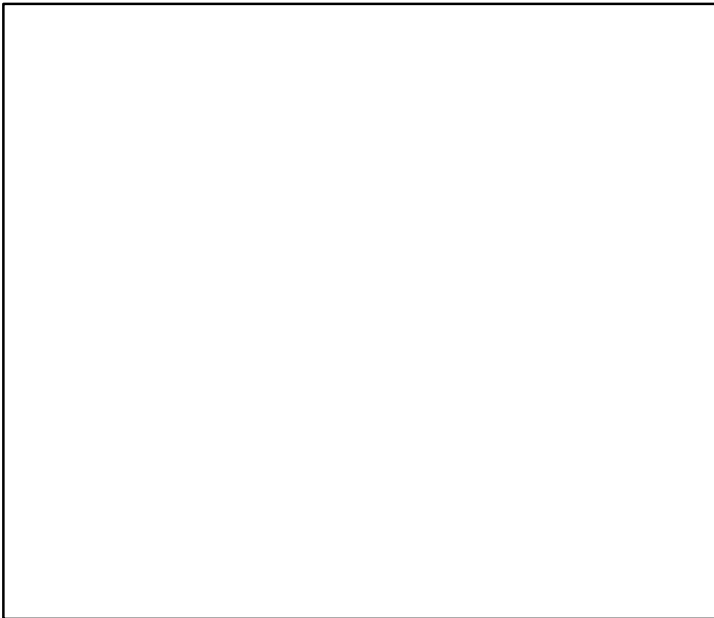
**Kobe MSY\***



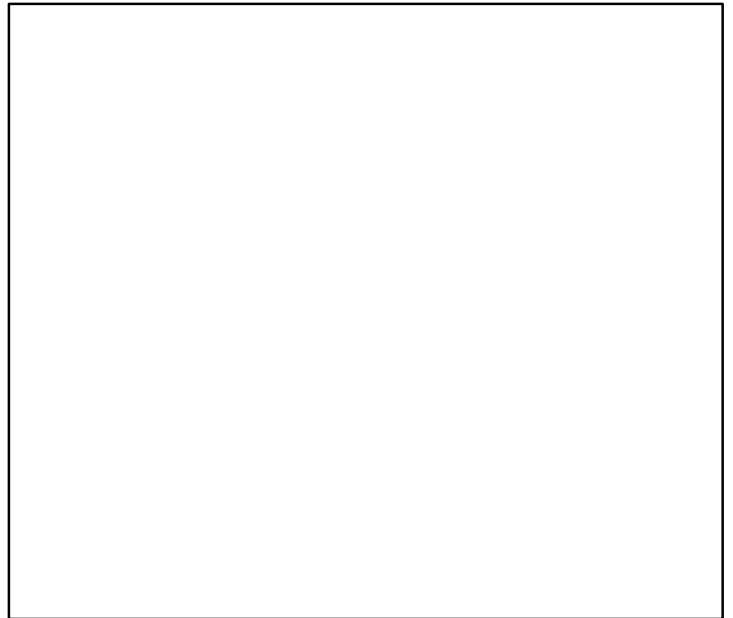
**Kobe MGT\***



**Spawner Recruit\***



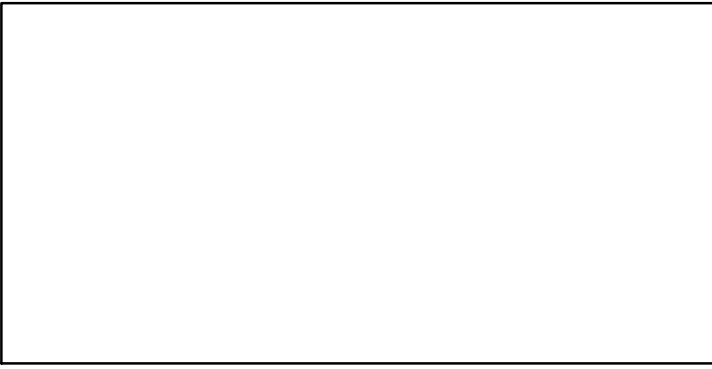
**Production\***



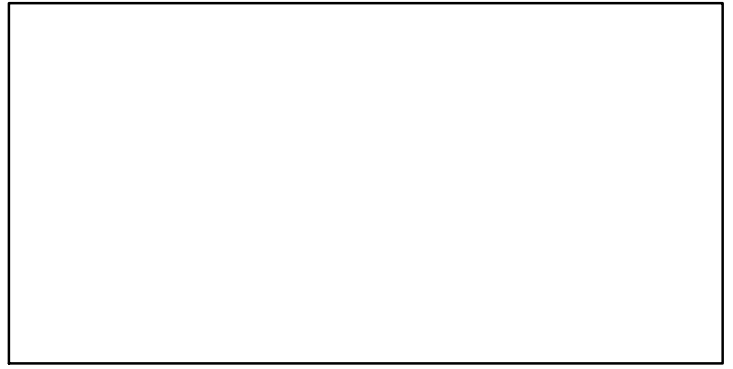
◆ Start Year ◆ End Year \* No Data

European flounder Subdivisions 22–23 [EFLOUN2223]

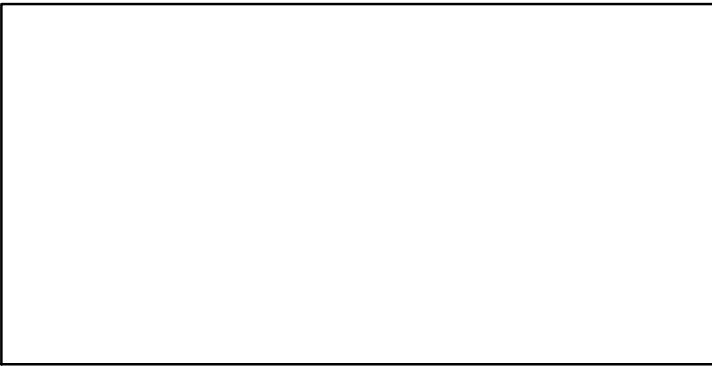
**TB\***



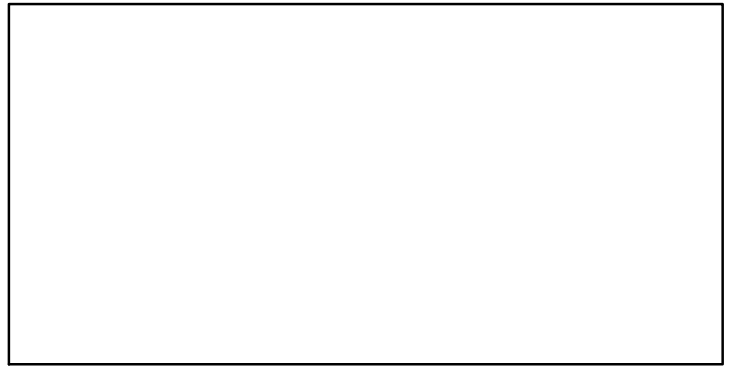
**SSB\***



**TN \***



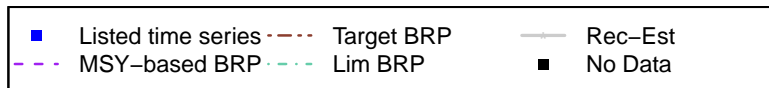
**F\***



**ER\***



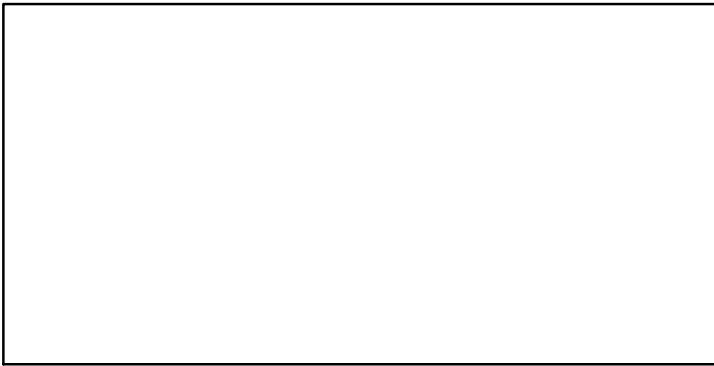
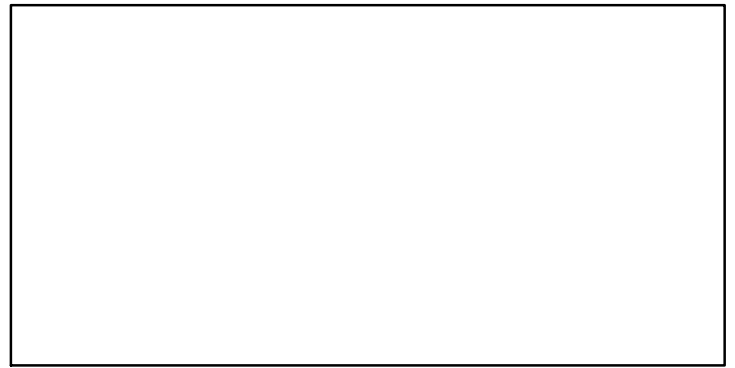
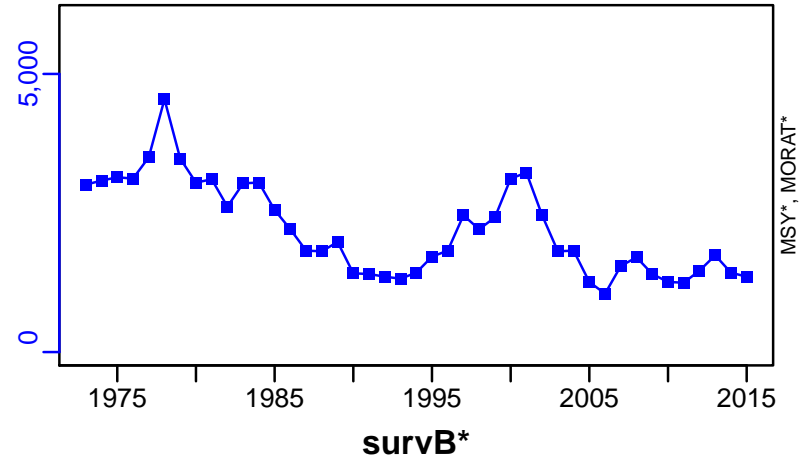
**Recruits\***



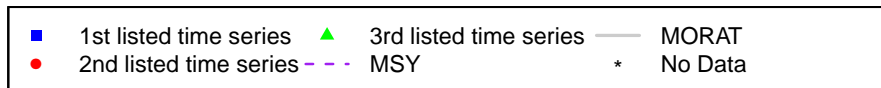
# European flounder Subdivisions 22–23 [EFLOUN2223]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



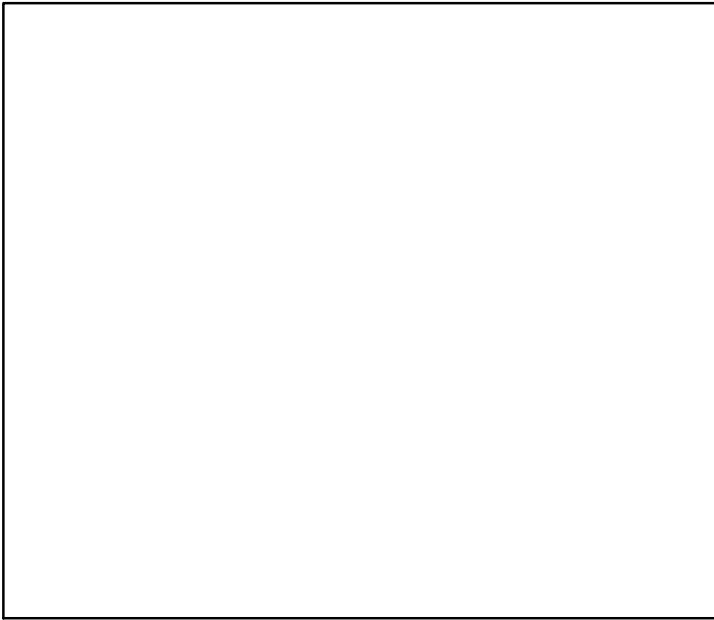
## European flounder Subdivisions 24-25 [EFLOUN2425]

Metadata	
<b>Scientific Name</b>	Platichthys flesus
<b>Current Assess ID</b>	WGBFAS-EFLOUN2425-1973-2016-ICESIMP2016
<b>Area</b>	Subdivisions 24-25
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

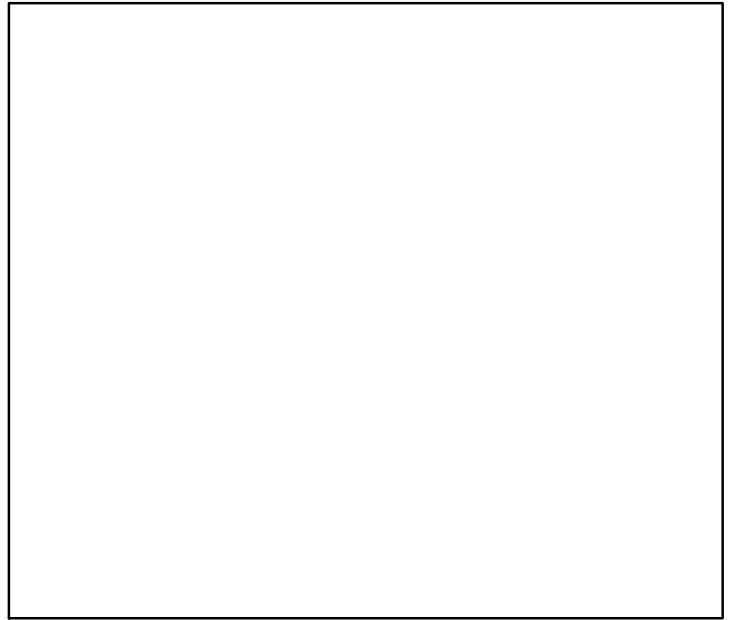
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

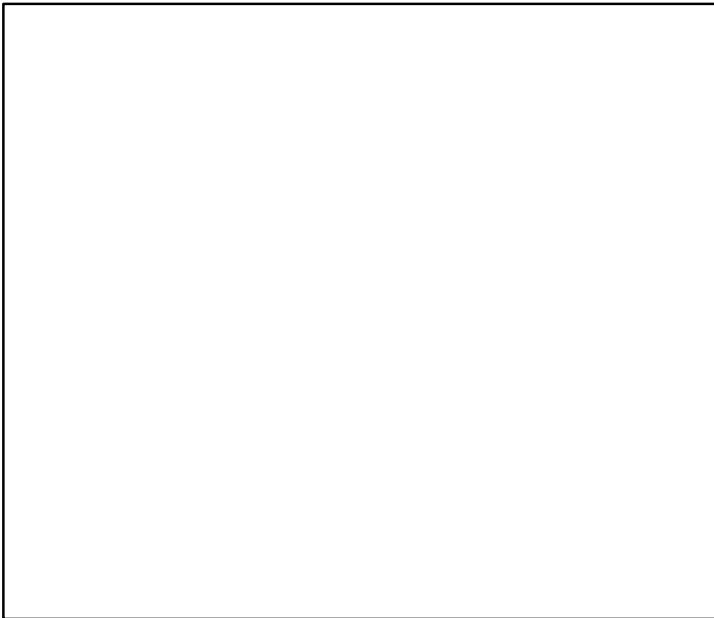
**Kobe MSY\***



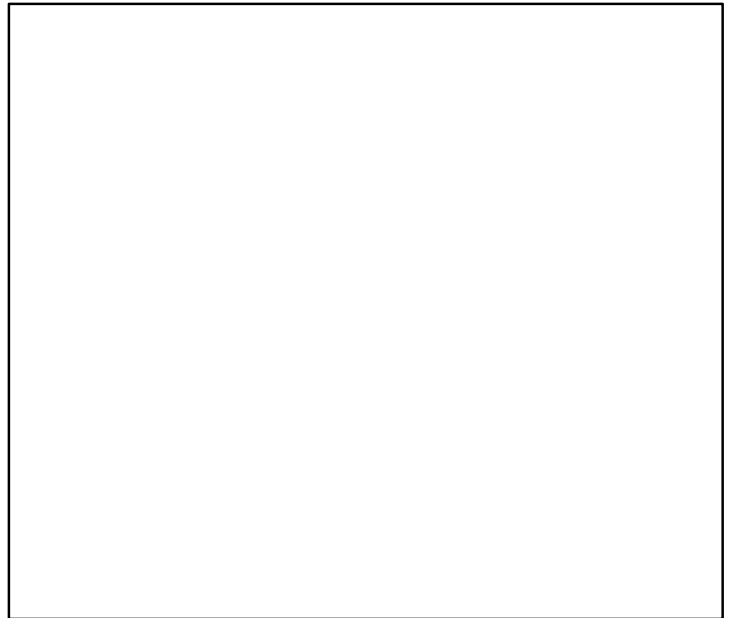
**Kobe MGT\***



**Spawner Recruit\***



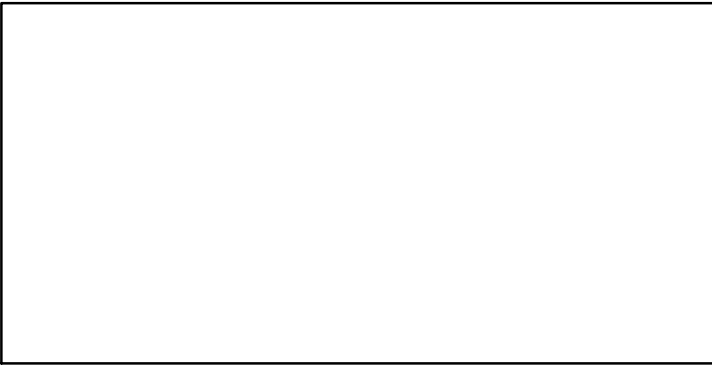
**Production\***



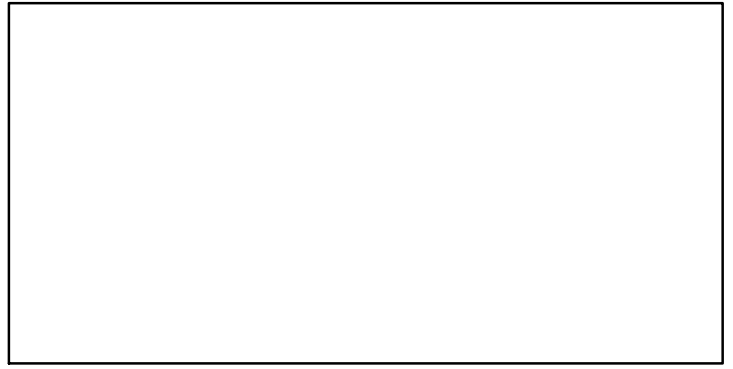
◆ Start Year ◆ End Year \* No Data

European flounder Subdivisions 24–25 [EFLOUN2425]

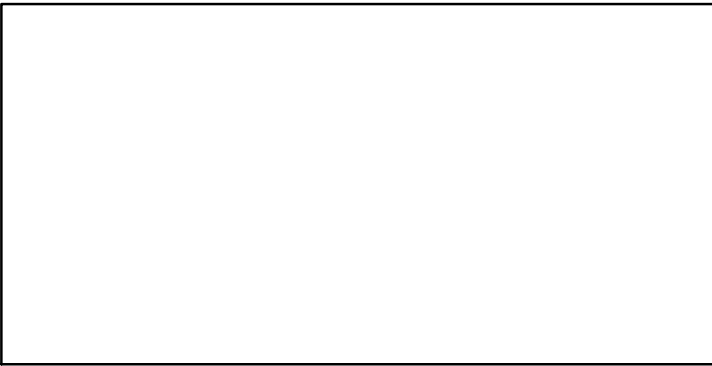
**TB\***



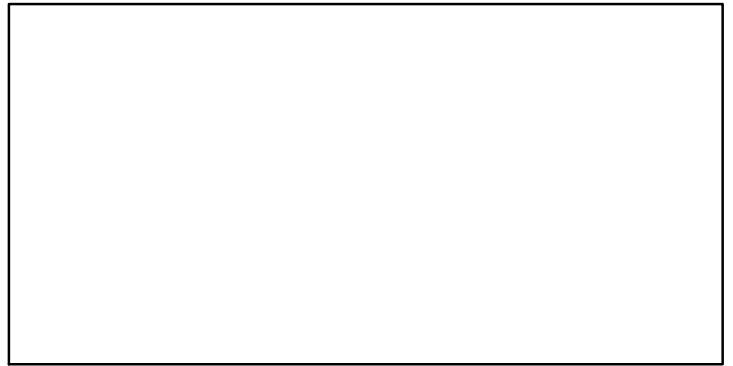
**SSB\***



**TN \***



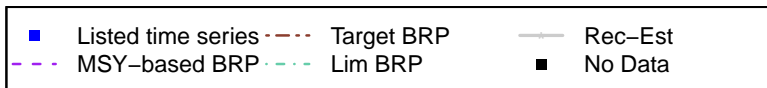
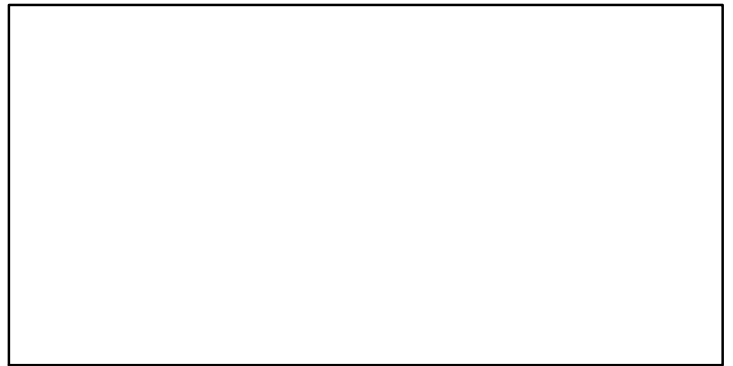
**F\***



**ER\***



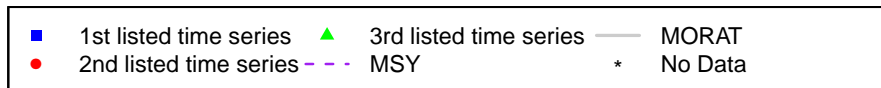
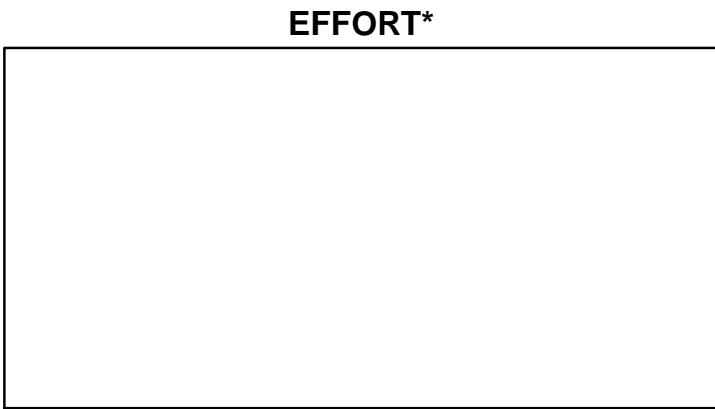
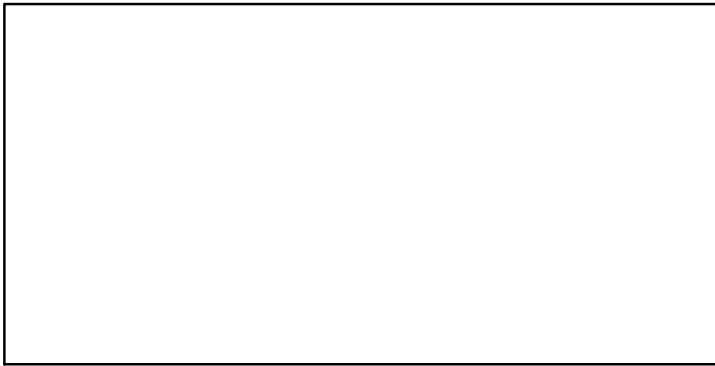
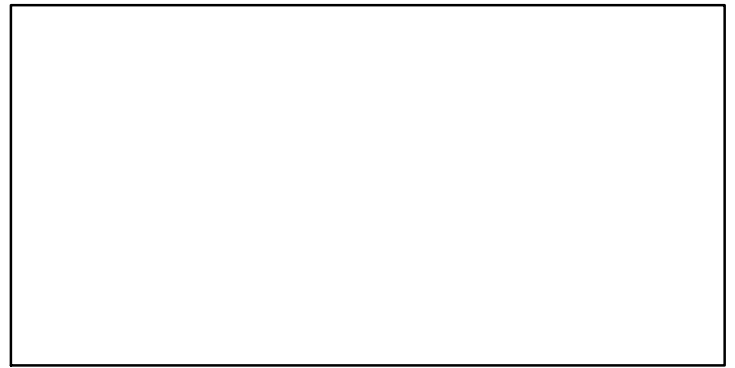
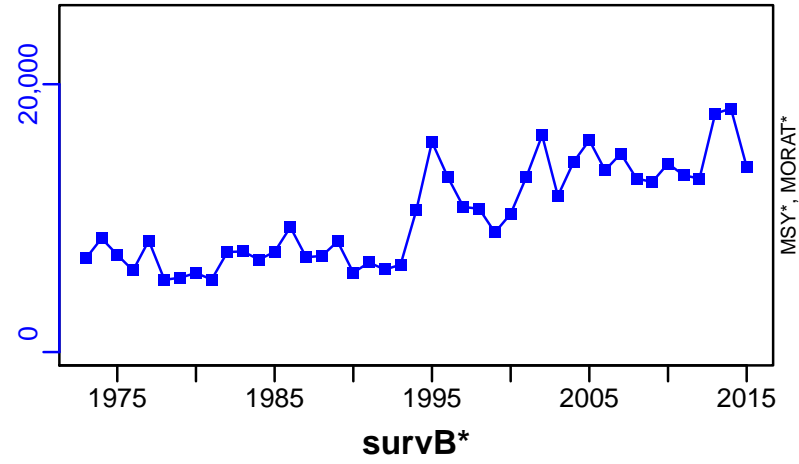
**Recruits\***



# European flounder Subdivisions 24–25 [EFLOUN2425]

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

TAC\*, Cpair\*, Cadv\*





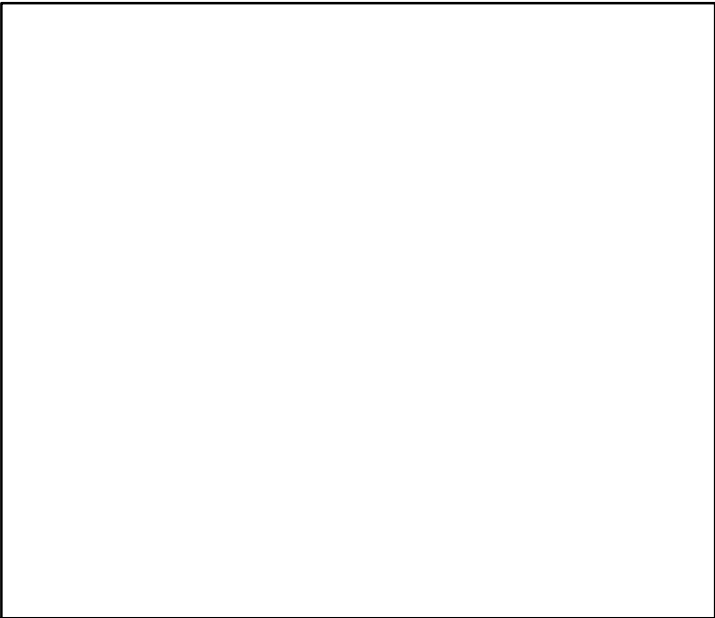
## European flounder Subdivisions 26-28 [EFLOUN26-28]

Metadata	
<b>Scientific Name</b>	Platichthys flesus
<b>Current Assess ID</b>	WGBFAS-EFLOUN26-28-1996-2016-ICESIMP2016
<b>Area</b>	Subdivisions 26-28
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

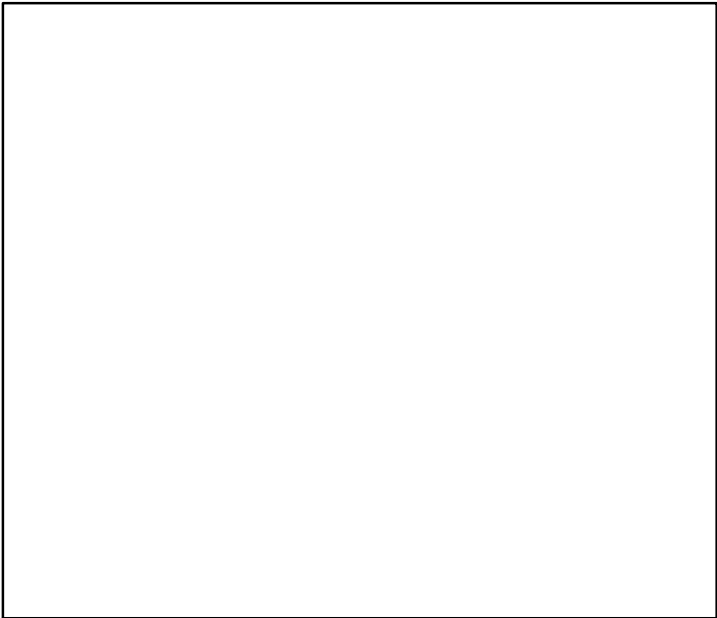
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

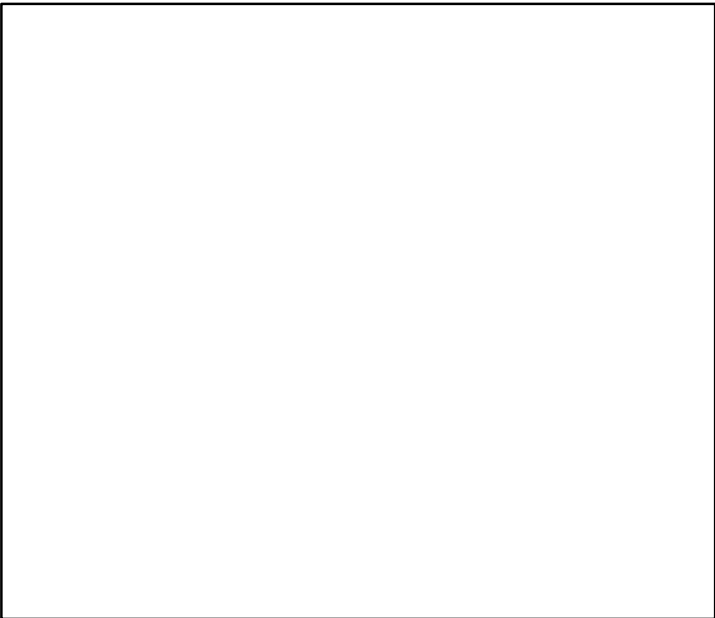
**Kobe MSY\***



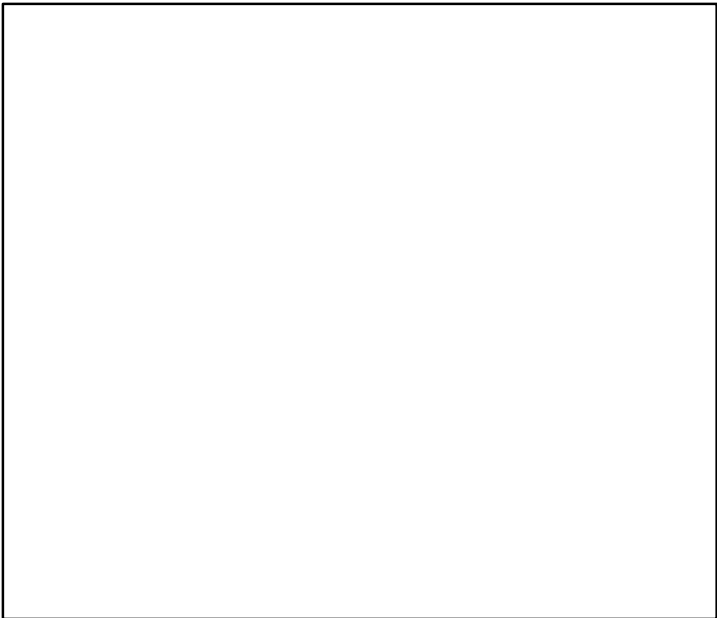
**Kobe MGT\***



**Spawner Recruit\***



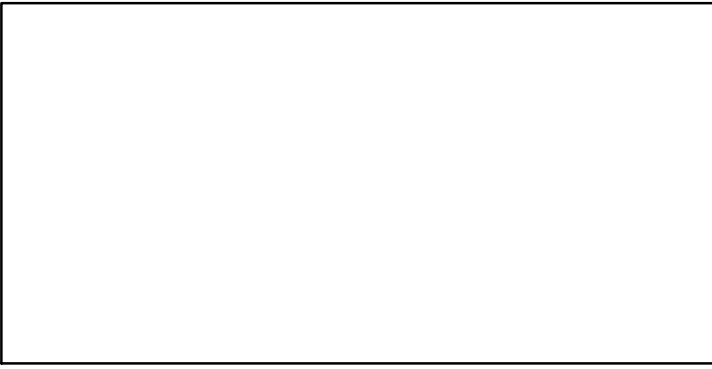
**Production\***



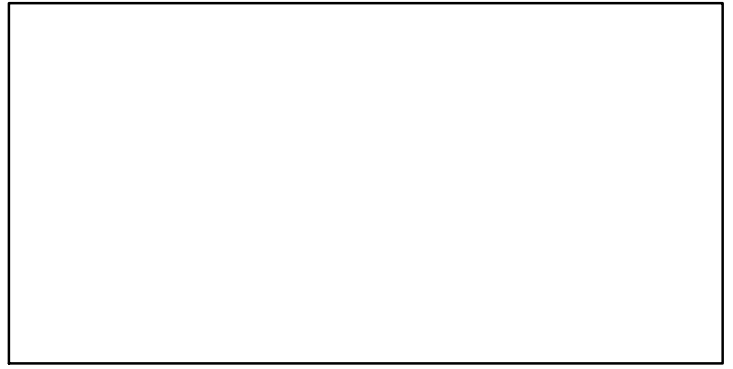
◆ Start Year    ◆ End Year    \* No Data

European flounder Subdivisions 26–28 [EFLOUN26–28]

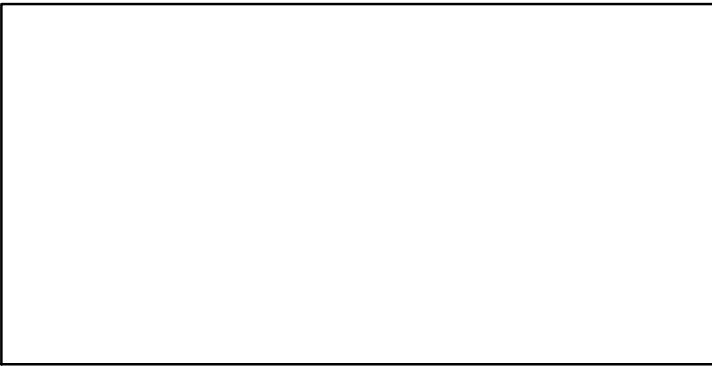
**TB\***



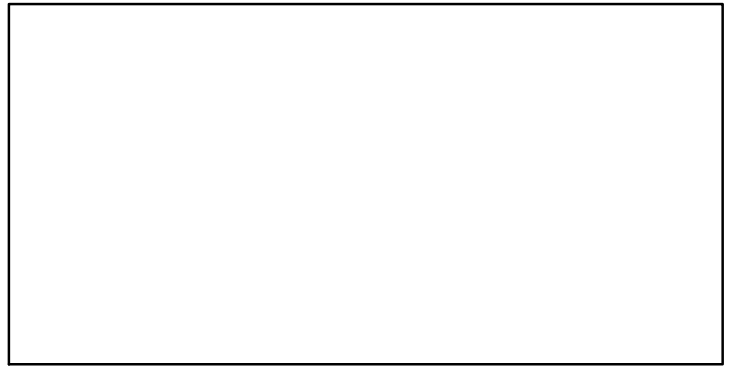
**SSB\***



**TN \***



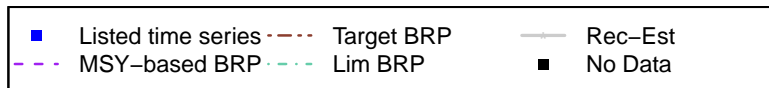
**F\***



**ER\***



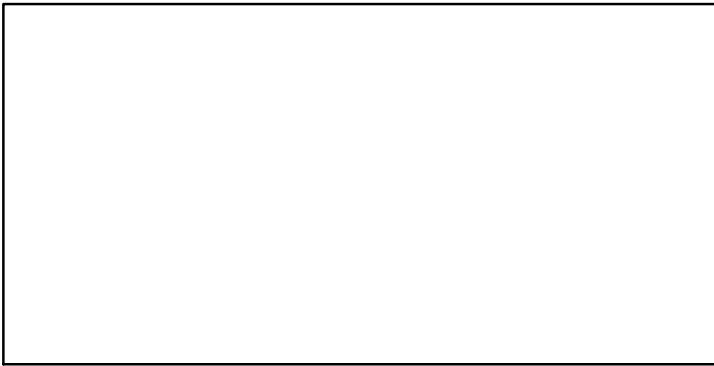
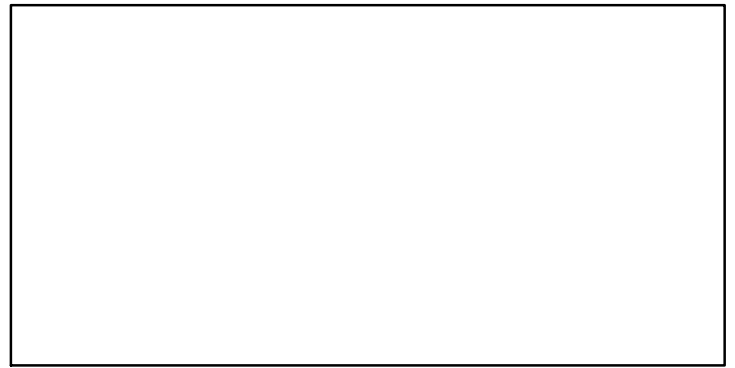
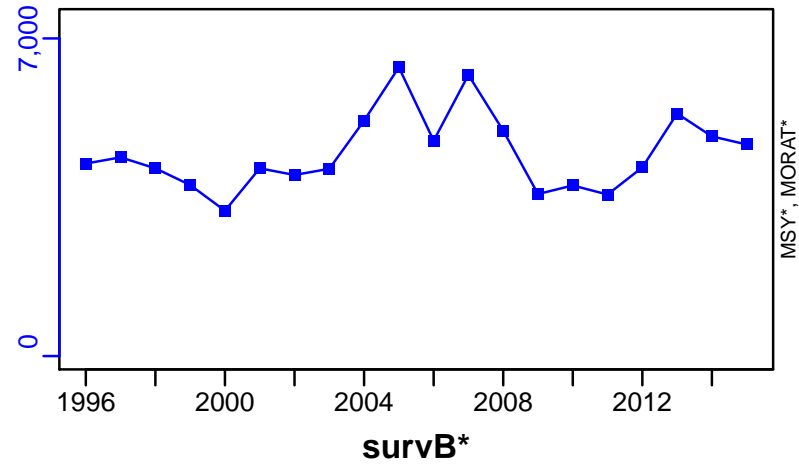
**Recruits\***



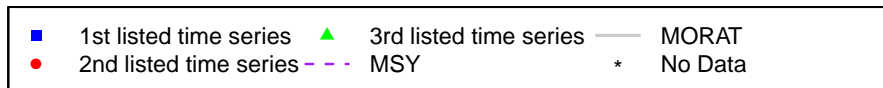
# European flounder Subdivisions 26–28 [EFLOUN26–28]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



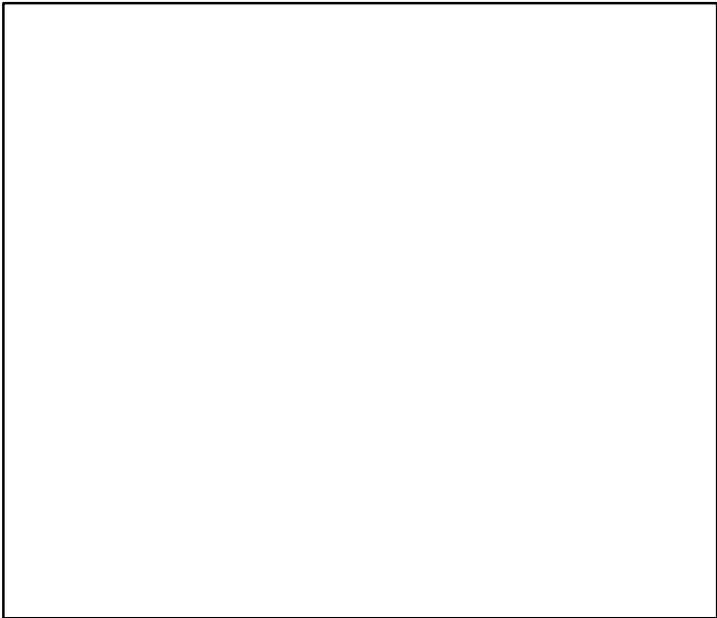
## European flounder Subdivisions 27 and 29-32 [EFLOUN27-2932]

Metadata	
<b>Scientific Name</b>	Platichthys flesus
<b>Current Assess ID</b>	WGBFAS-EFLOUN27-2932-1980-2016-ICESIMP2016
<b>Area</b>	Subdivisions 27 and 29-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

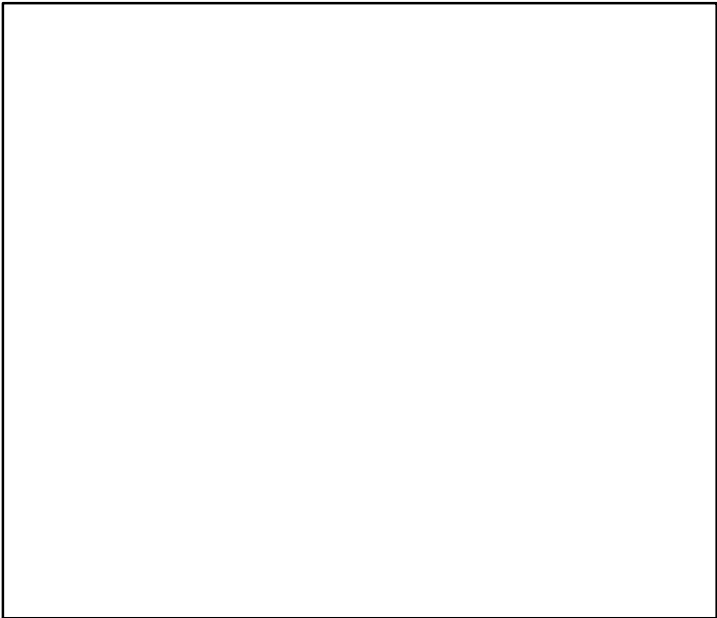
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

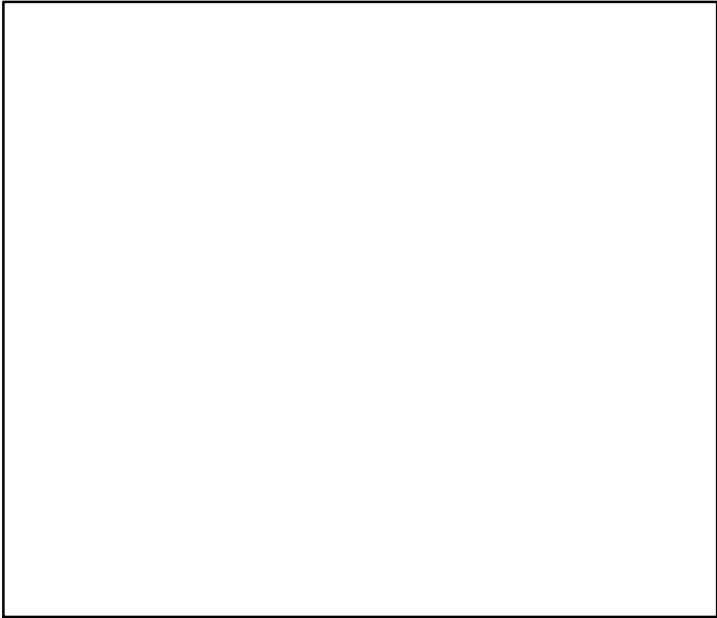
**Kobe MSY\***



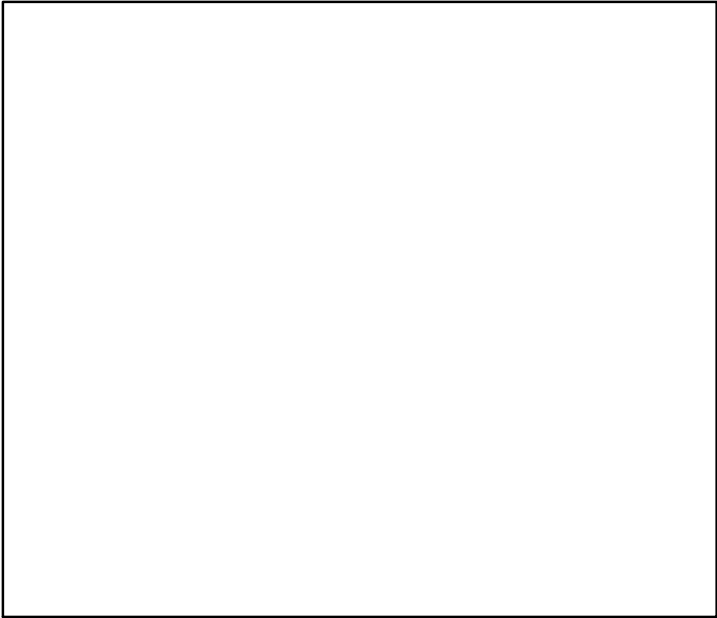
**Kobe MGT\***



**Spawner Recruit\***



**Production\***

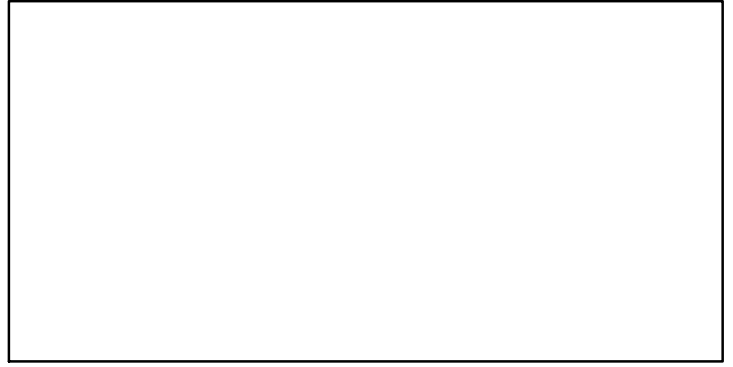


◆ Start Year   ◆ End Year   \* No Data

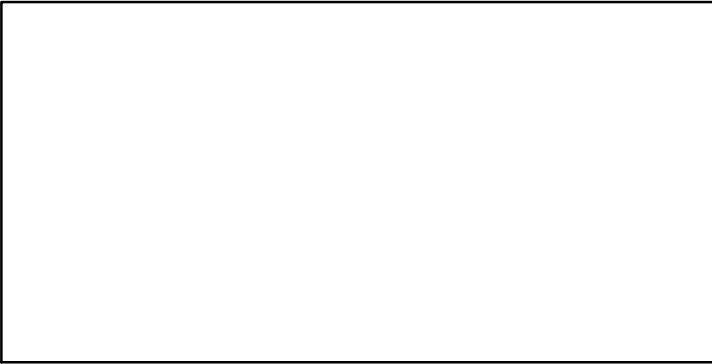
**TB\***



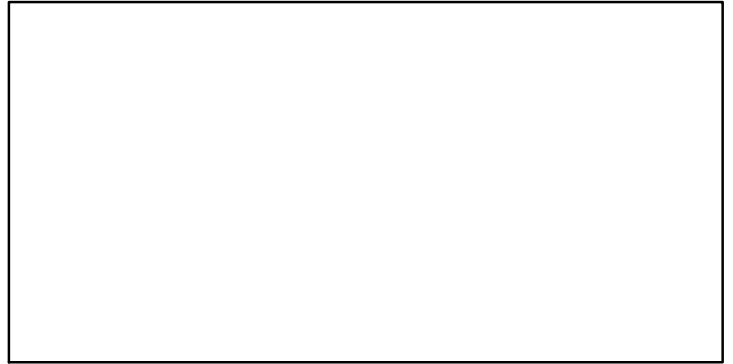
**SSB\***



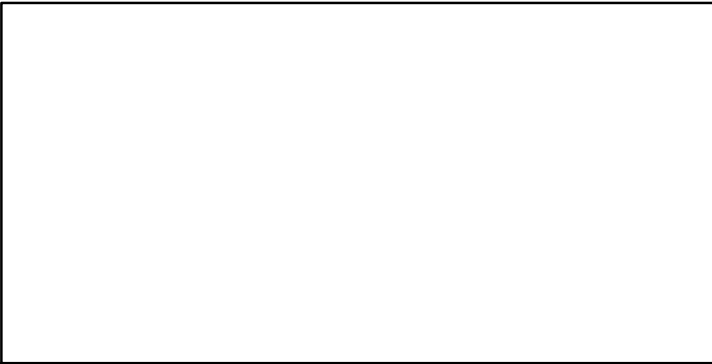
**TN \***



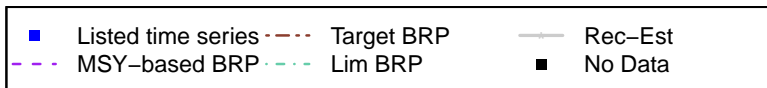
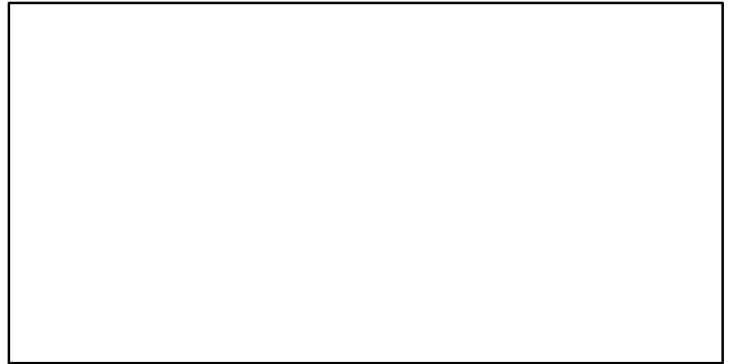
**F\***



**ER\***

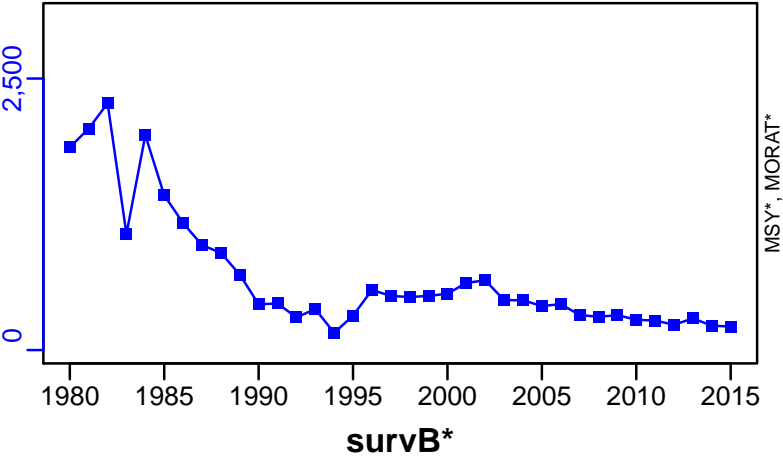


**Recruits\***

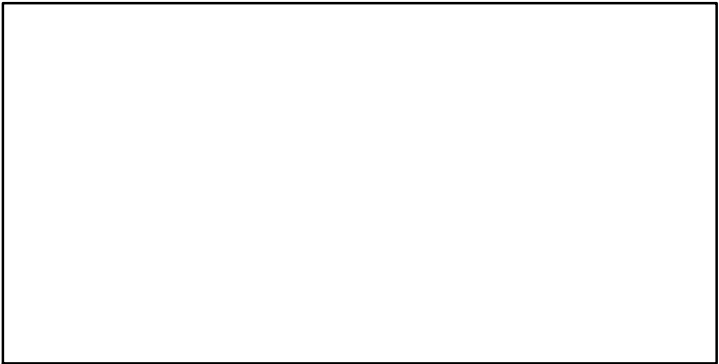


European flounder Subdivisions 27 and 29–32 [EFLOUN27–2932]

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



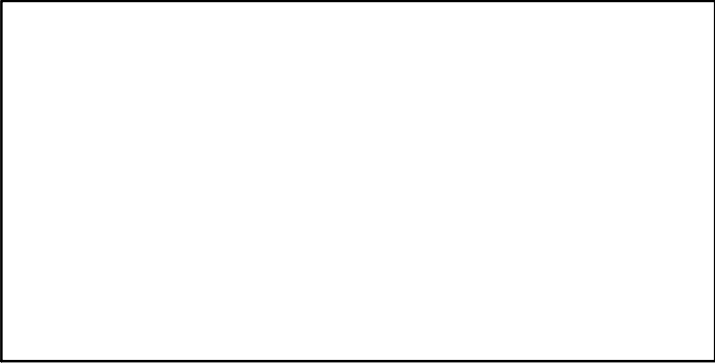
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



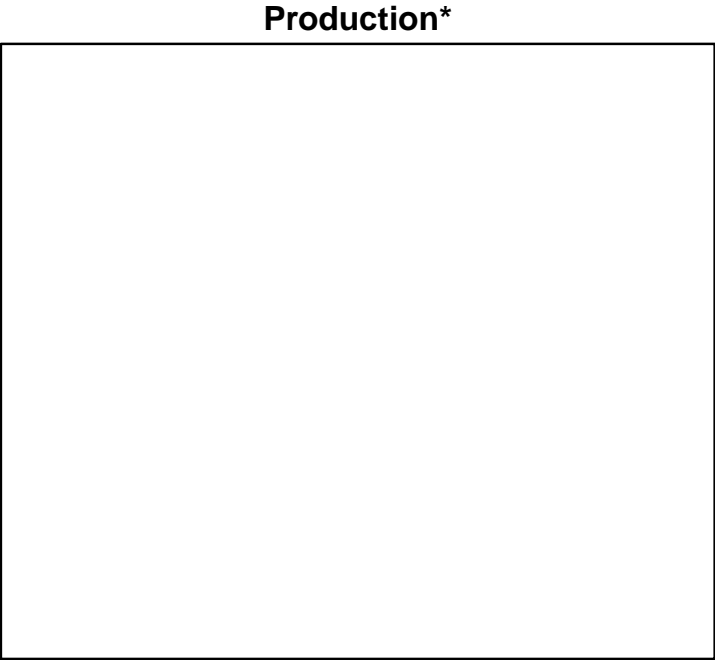
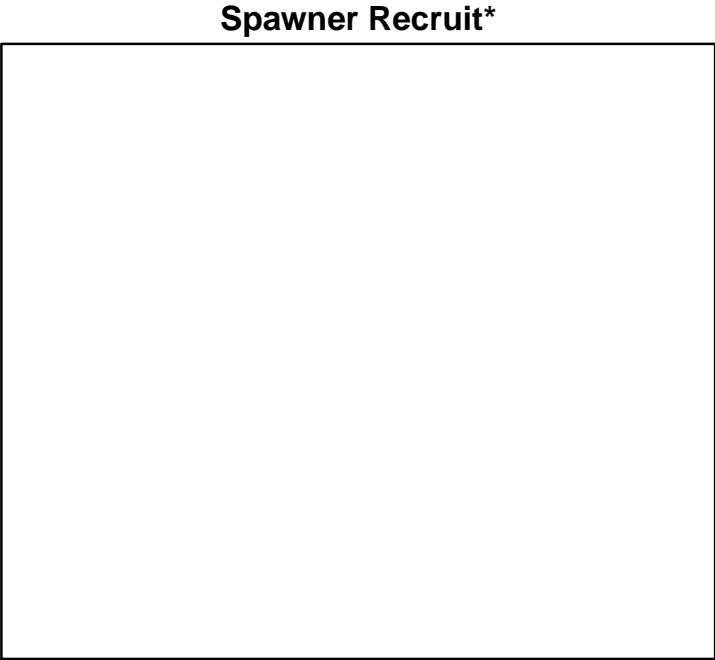
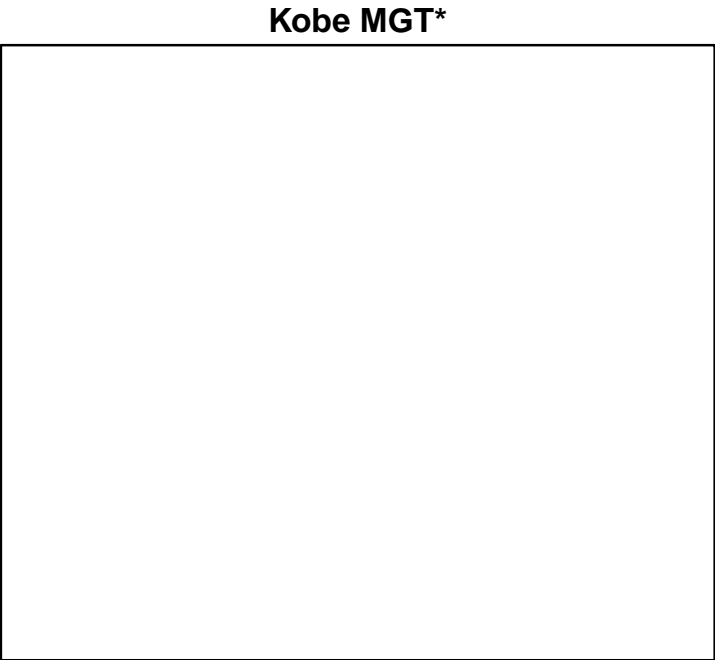
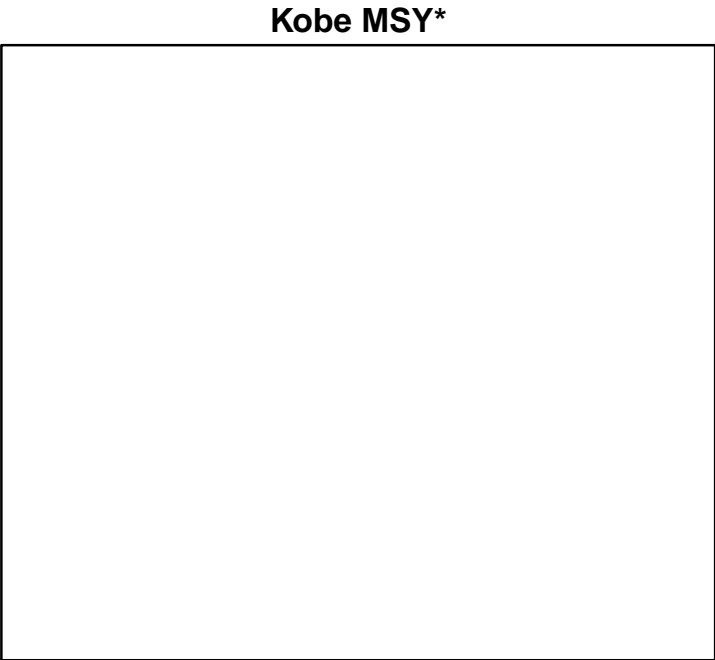


## European pollack IIIa and North Sea [EPOLLIV-IIIa]

Metadata	
<b>Scientific Name</b>	Pollachius pollachius
<b>Current Assess ID</b>	WGNSSK-EPOLLIV-IIIa-1977-2016-ICESIMP2016
<b>Area</b>	IIIa and North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	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	1970		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year   ◆ End Year   \* No Data

European pollack IIIa and North Sea [EPOLLIV-IIIa]

TB\*



SSB\*



TN \*



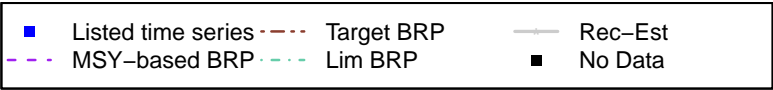
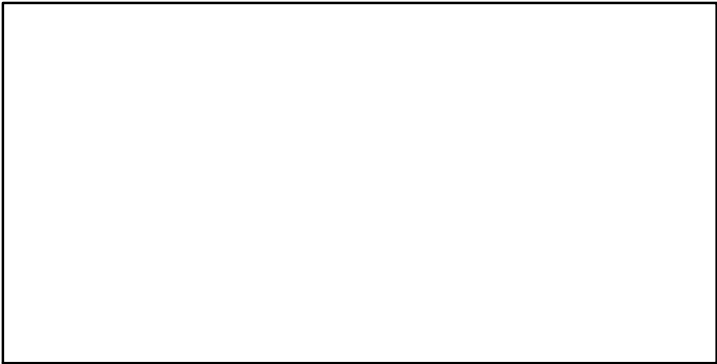
F\*



ER\*

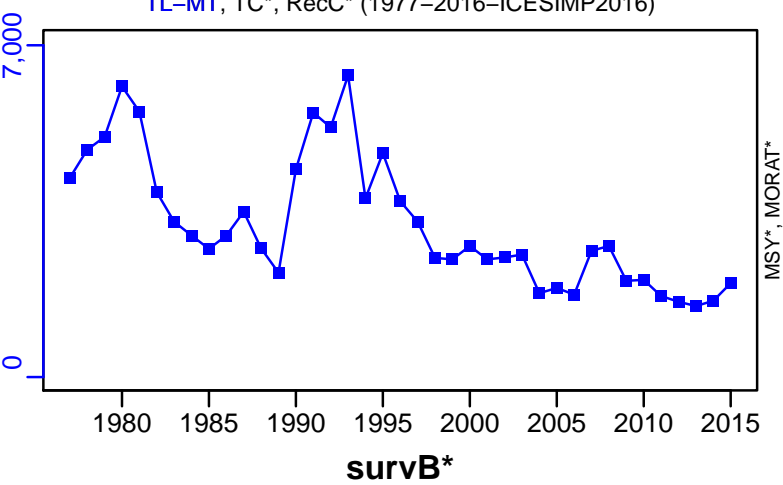


Recruits\*



European pollack IIIa and North Sea [EPOLLIV-IIIa]

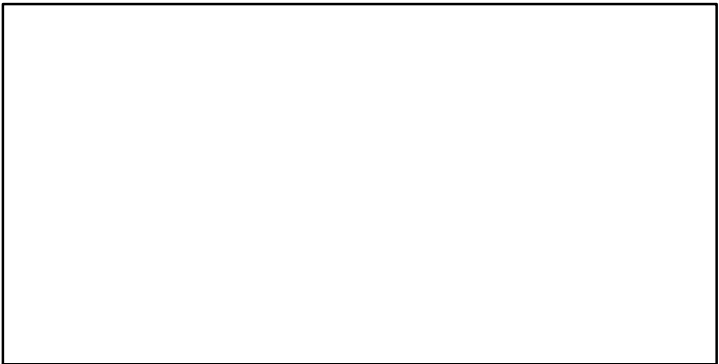
TL-MT, TC\*, RecC\* (1977-2016-ICESIMP2016)



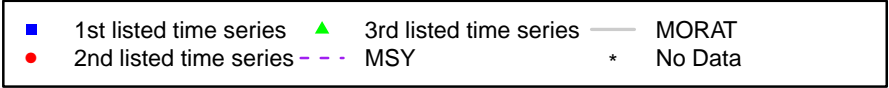
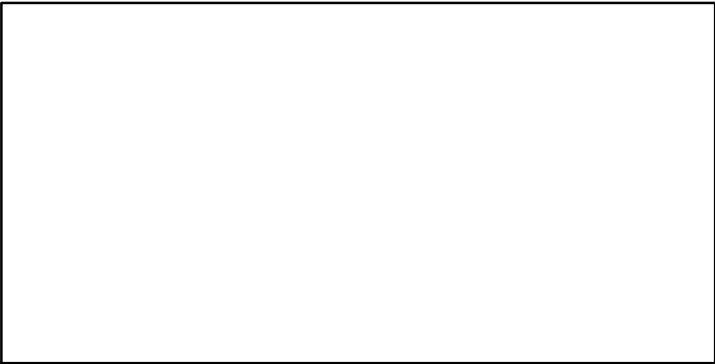
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



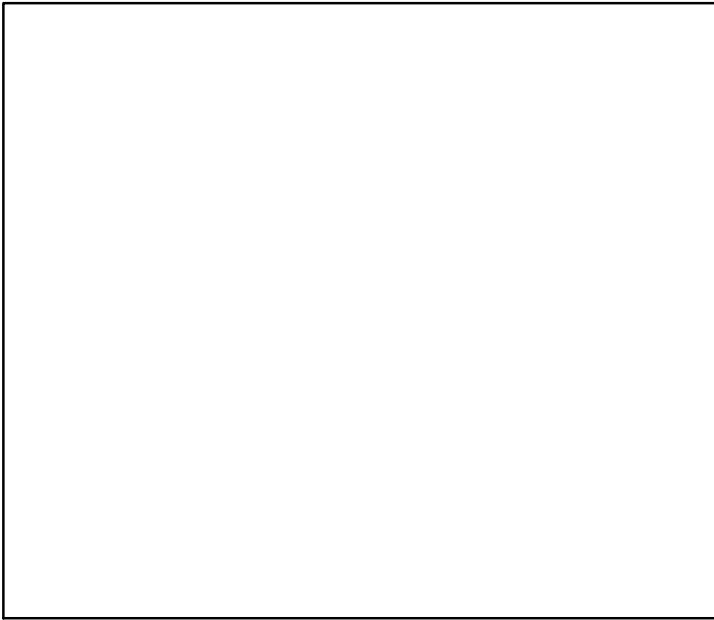
## European pollack VIII and IXa [EPOLLVIII-IXa]

Metadata	
<b>Scientific Name</b>	Pollachius pollachius
<b>Current Assess ID</b>	WGBIE-EPOLLVIII-IXa-1985-2016-ICESIMP2016
<b>Area</b>	VIII and IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2015, 2016

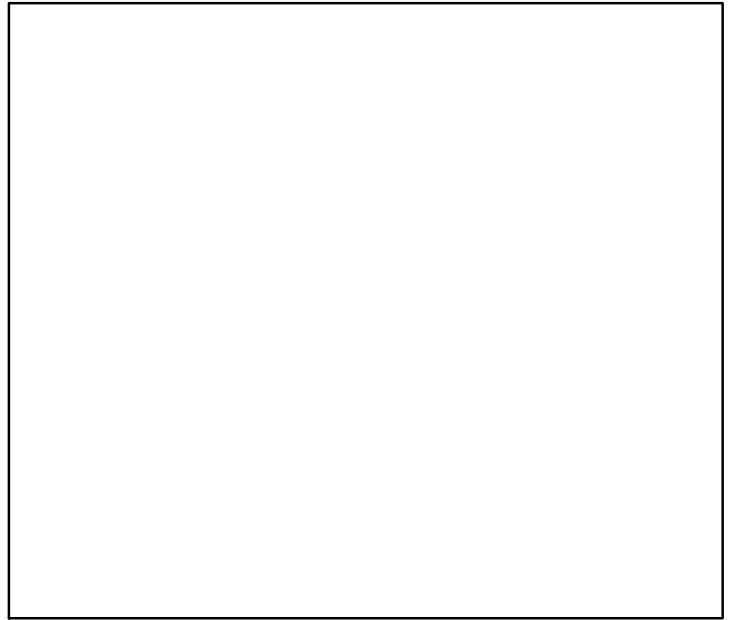
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1610		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

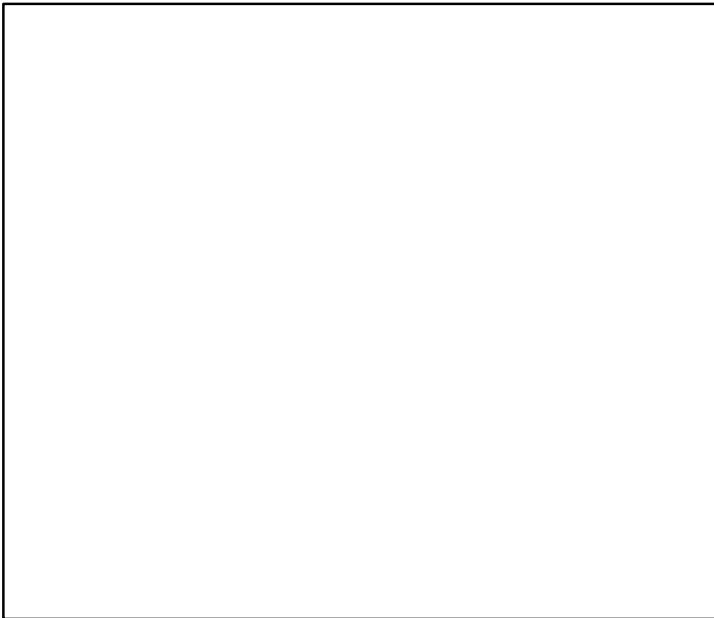
**Kobe MSY\***



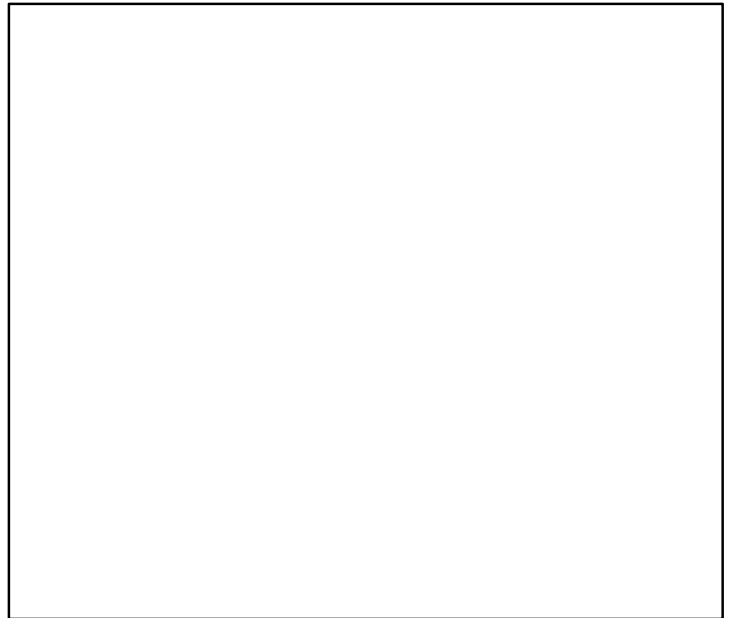
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

European pollack VIII and IXa [EPOLLVIII-IXa]

TB\*



SSB\*



TN \*



F\*



ER\*



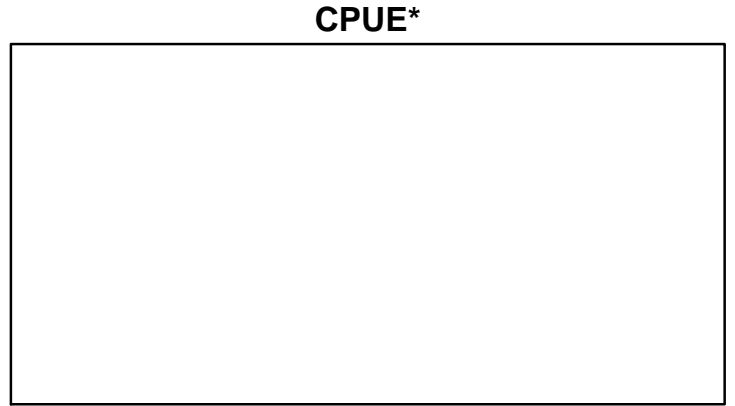
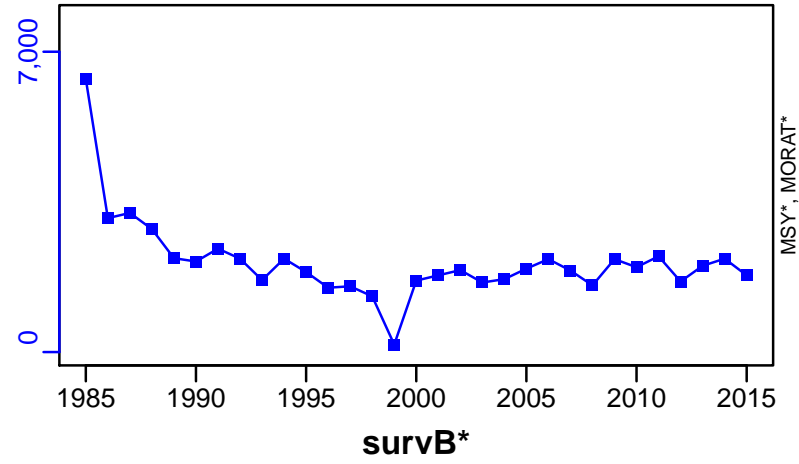
Recruits\*



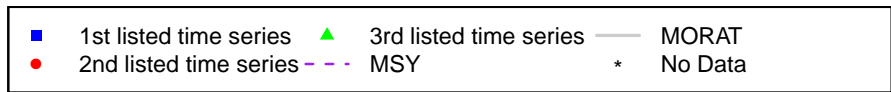
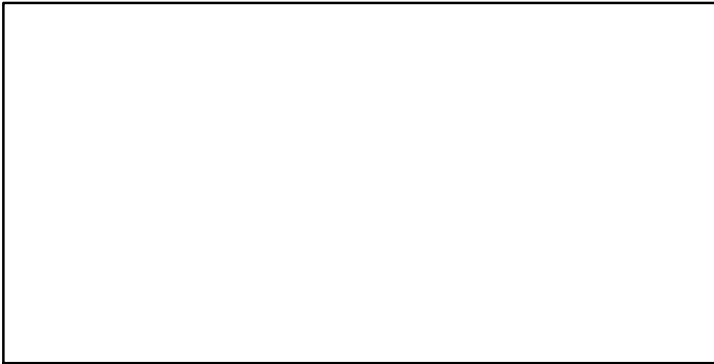
# European pollack VIII and IXa [EPOLLVIII-IXa]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





## Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

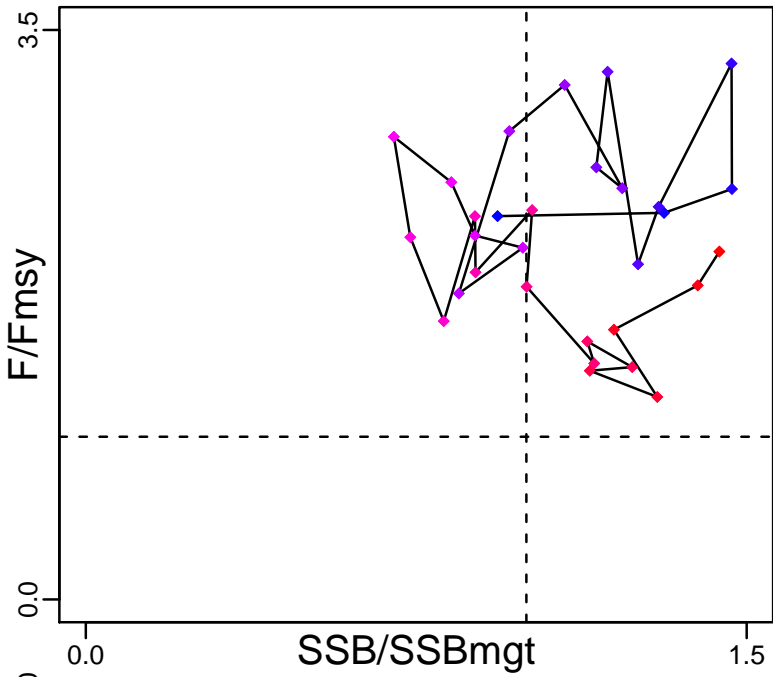
Metadata	
<b>Scientific Name</b>	Lepidorhombus boscii
<b>Current Assess ID</b>	WGBIE-FMEG8c9a-1986-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.19
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	4600
<b>Fmgt</b>	Fmgt-1/yr	2016	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.2
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	3300
<b>Flim</b>	Flim-1/yr	2016	0.57
<b>ERlim</b>	-	-	-

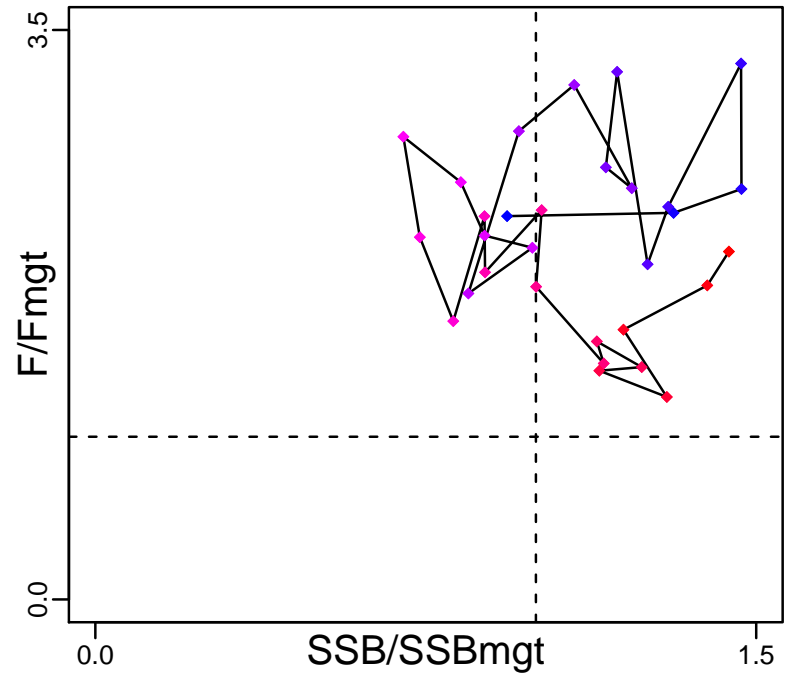
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	7910	Both	-
<b>SSB</b>	SSB-MT	2016	7180	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	43,300,000	-	0
<b>F</b>	F-1/yr	2016	0.406	-	2 to 4
<b>ER</b>	ER-calc-ratio	2016	0.221	-	-
<b>TC</b>	TC-MT	2016	1750		
<b>TL</b>	TL-MT	2016	1150		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	2.138		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.561		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	2.138		
<b>ER/ERmgt</b>	-	-	-		

Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

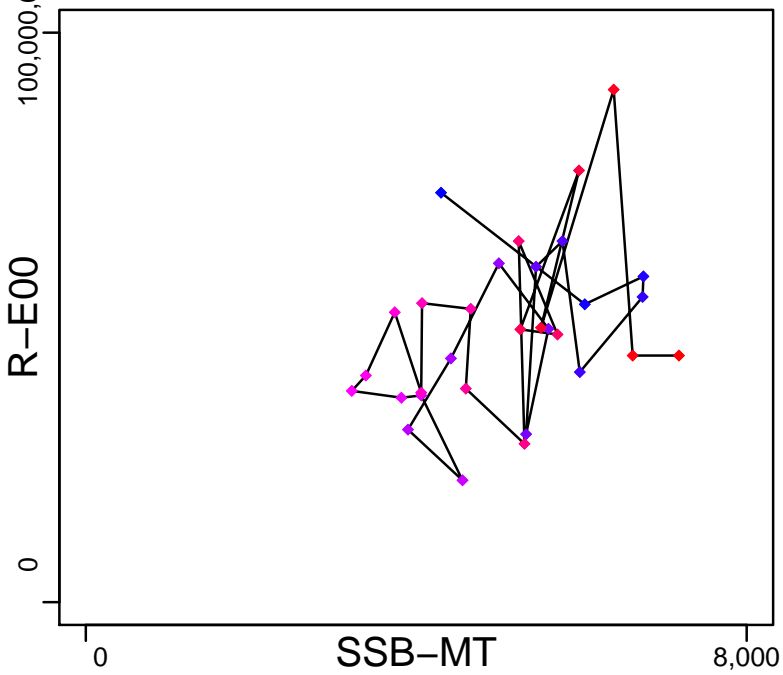
Kobe MSYpref (1986–2016–ICESIMP2016)



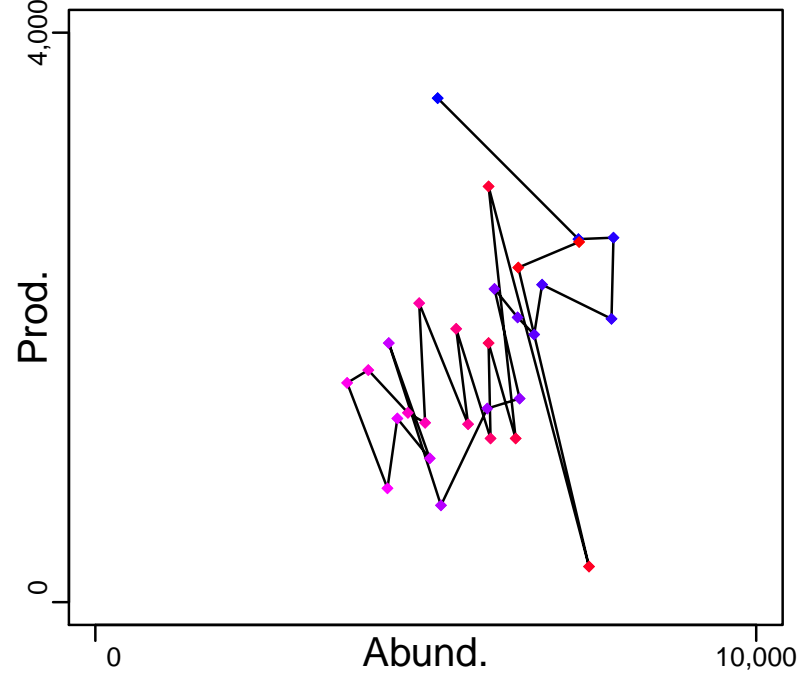
Kobe MGTpref (1986–2016–ICESIMP2016)



Spawner Recruit (1986–2016–ICESIMP2016)



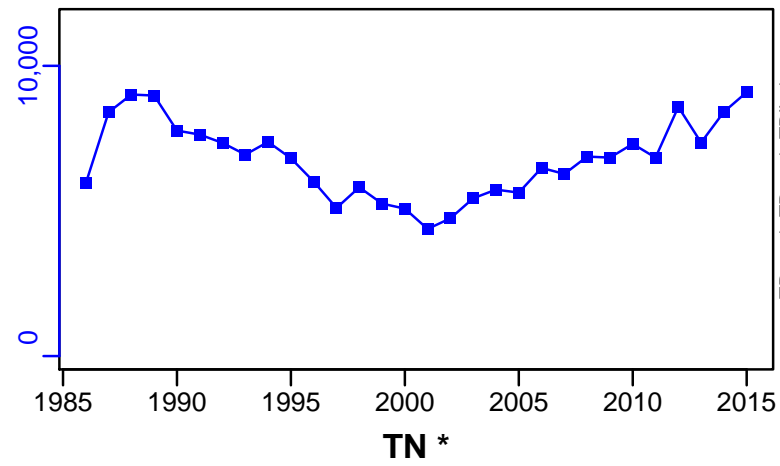
Production (1986–2016–ICESIMP2016)



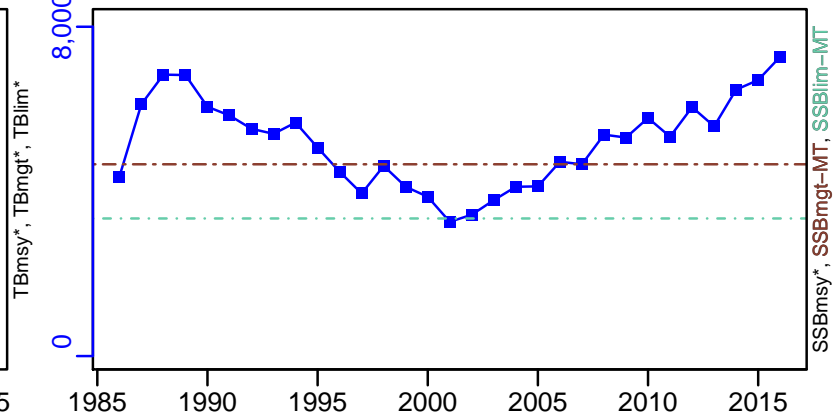
◆ Start Year ◆ End Year \* No Data

# Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

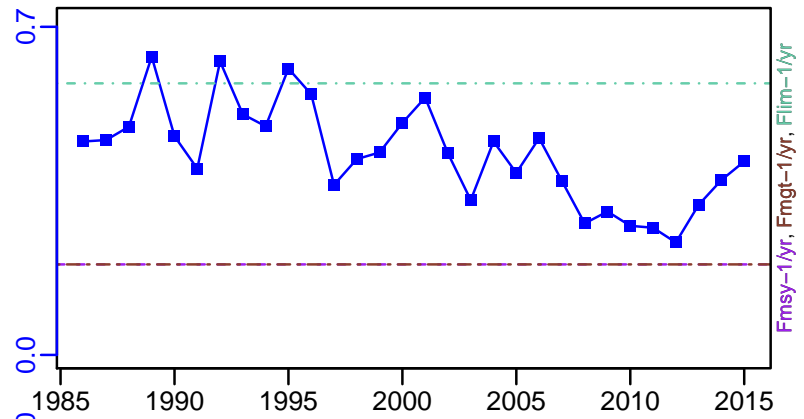
TB-MT (1986–2016–ICESIMP2016)



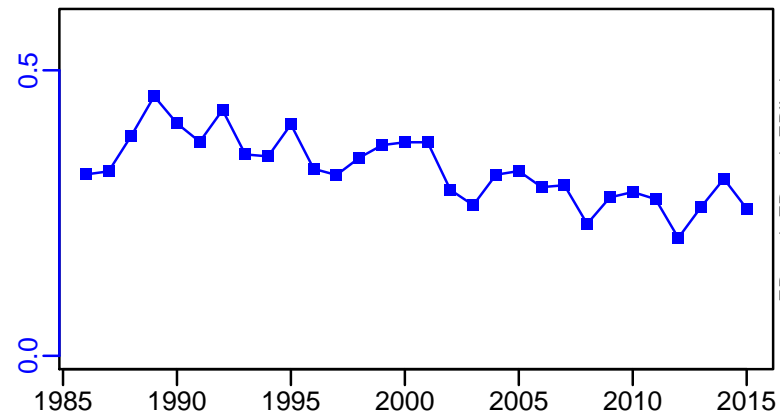
SSB-MT (1986–2016–ICESIMP2016)



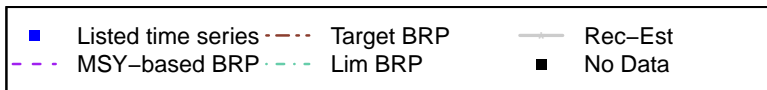
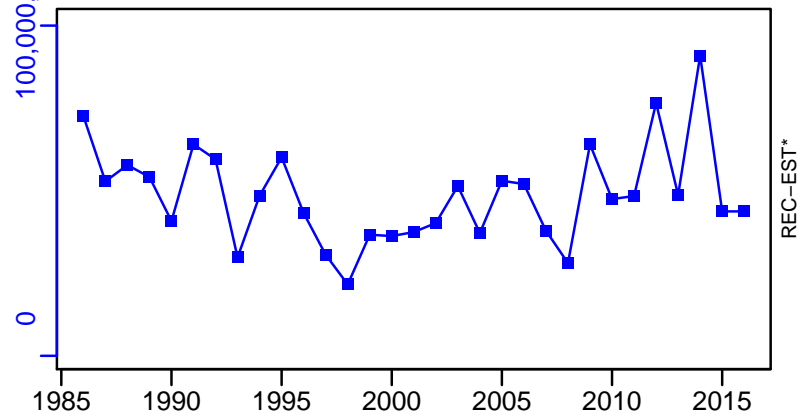
F-1/yr (1986–2016–ICESIMP2016)



ER-calc-ratio (1986–2016–ICESIMP2016)



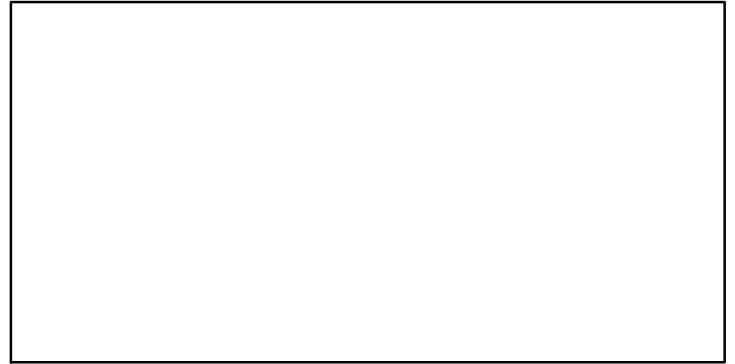
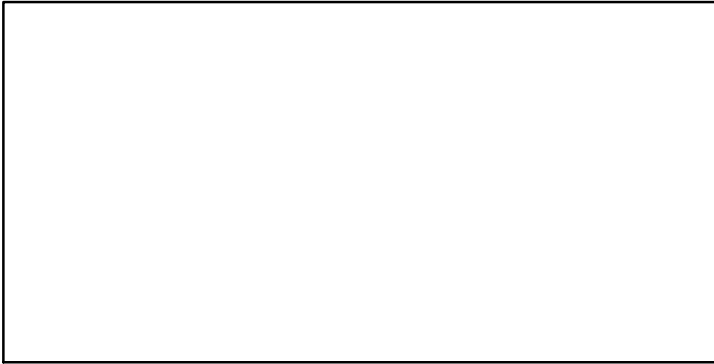
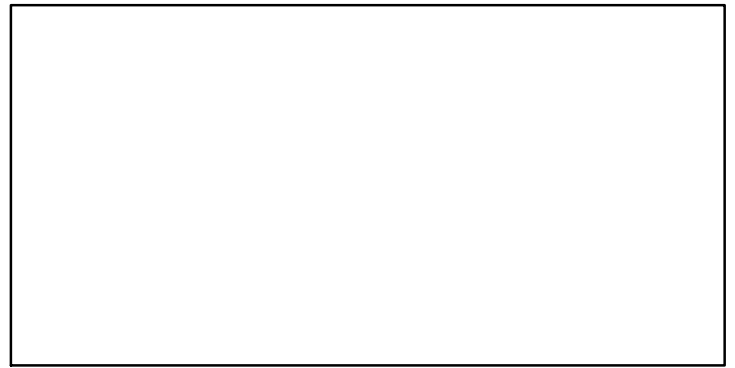
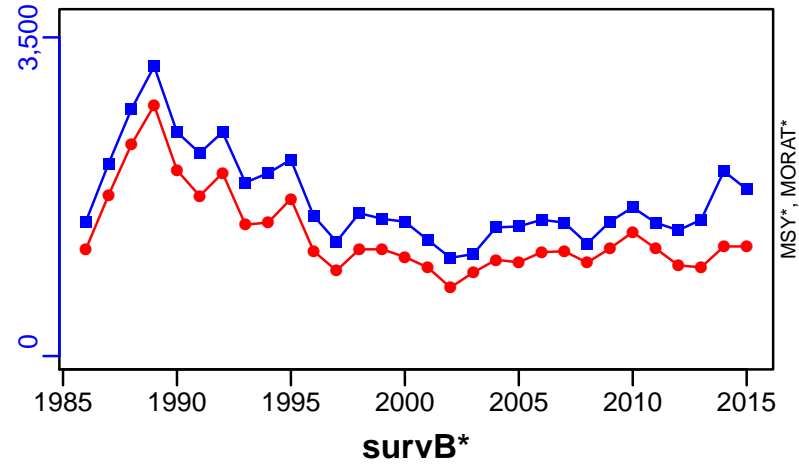
R-E00 (1986–2016–ICESIMP2016)



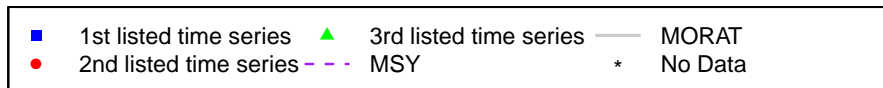
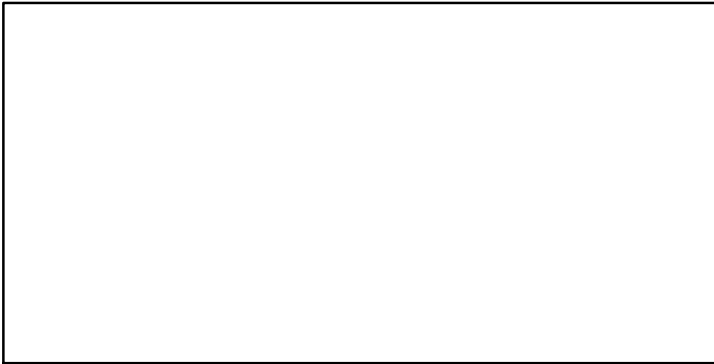
# Fourspotted megrim ICES VIIIc-IXa [FMEG8c9a]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*

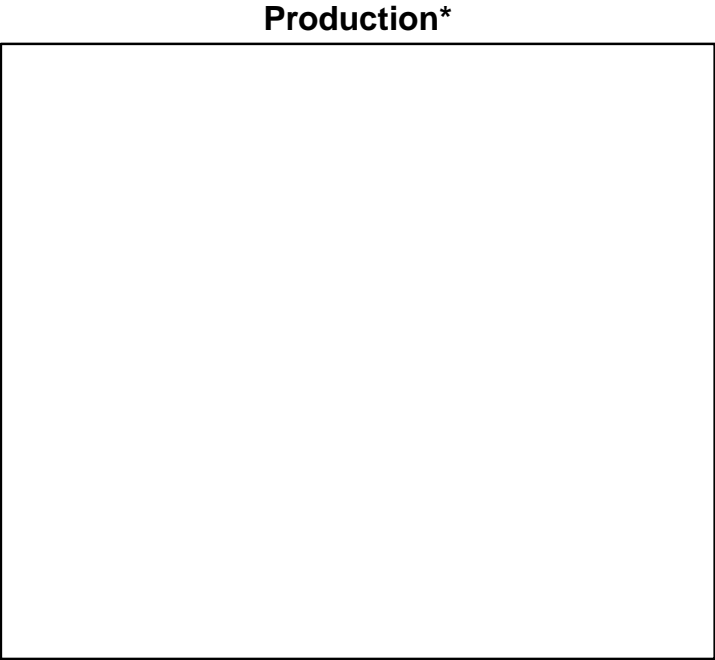
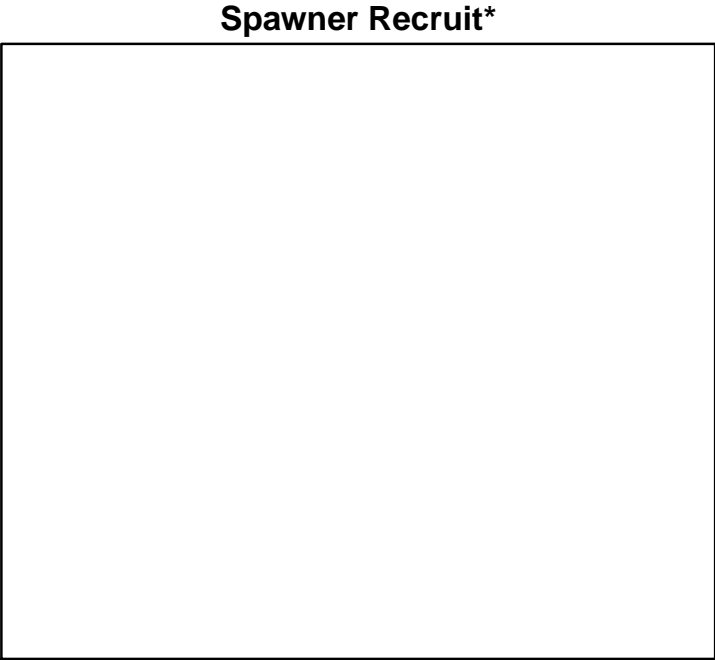
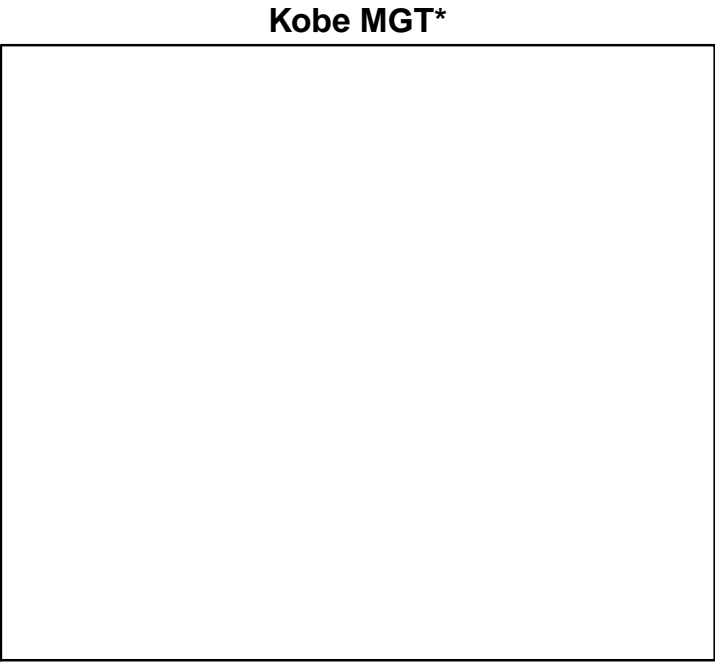
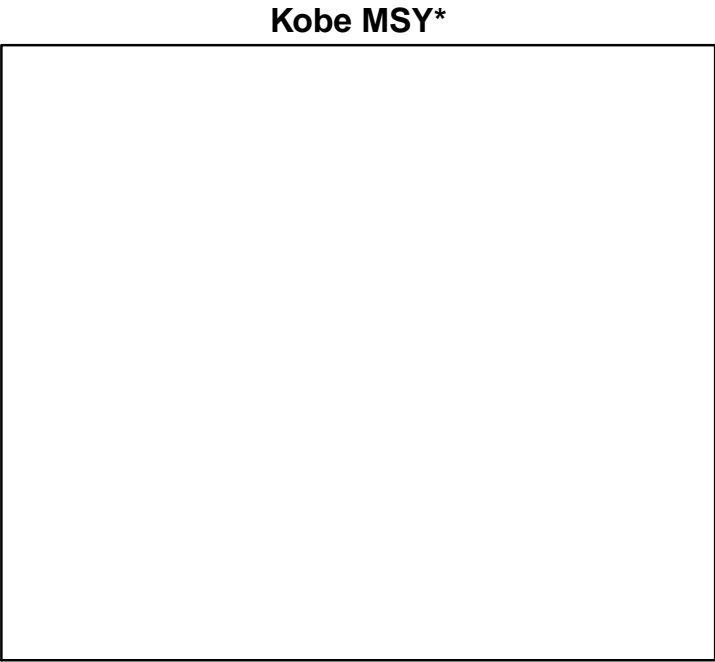


## Greater forkbeard Northeast Atlantic [GFORKNEATL]

Metadata	
<b>Scientific Name</b>	Phycis blennoides
<b>Current Assess ID</b>	WGDEEP-GFORKNEATL-2005-2016-ICESIMP2016
<b>Area</b>	Northeast Atlantic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	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	-	-	-		



◆ Start Year   ◆ End Year   \* No Data

Greater forkbeard Northeast Atlantic [GFORKNEATL]

TB\*



SSB\*



TN \*



F\*



ER\*

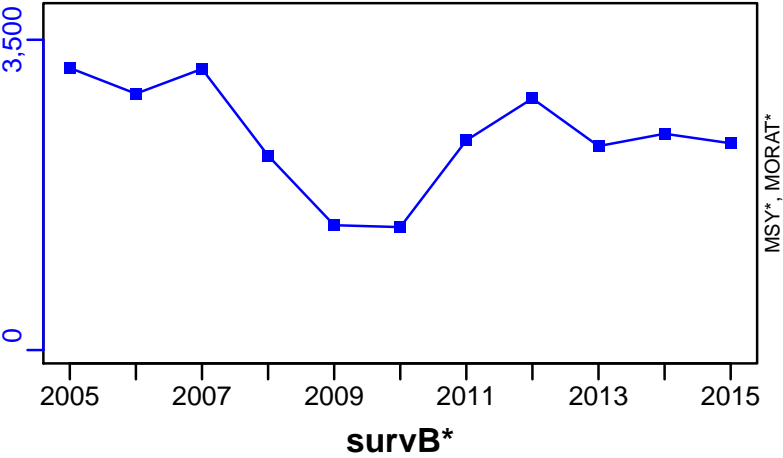


Recruits\*

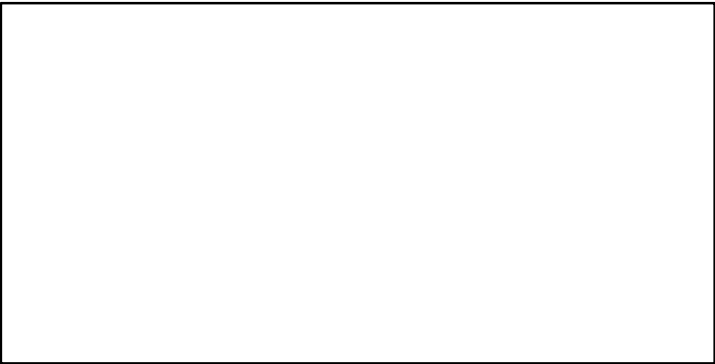


Greater forkbeard Northeast Atlantic [GFORKNEATL]

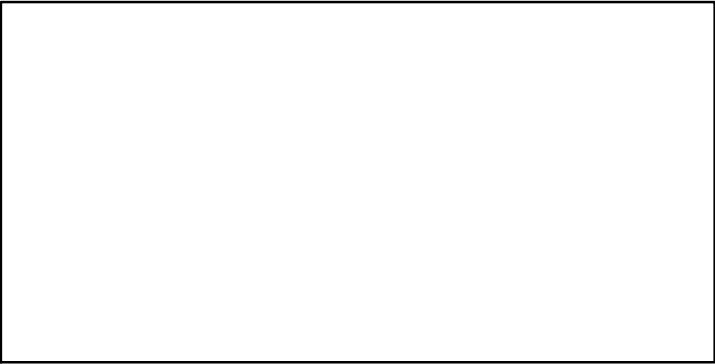
TL-MT, TC\*, RecC\* (2005–2016–ICESIMP2016)



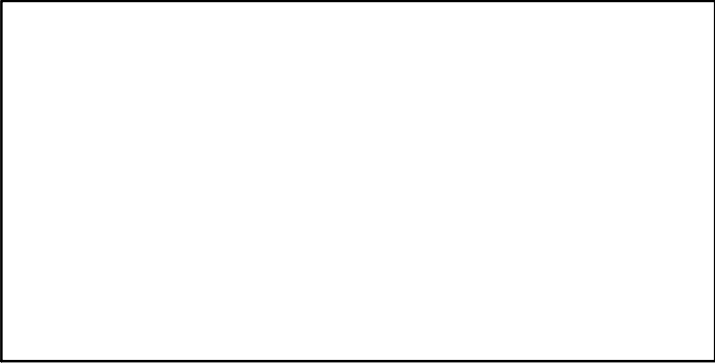
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





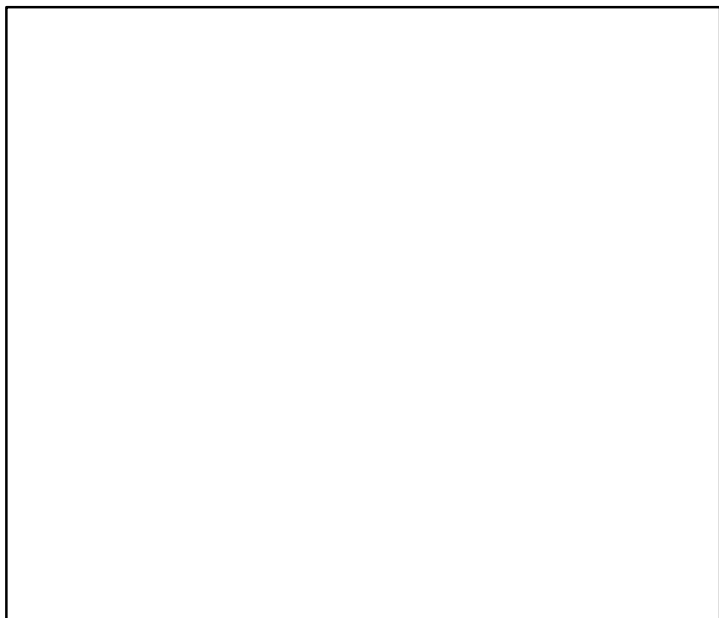
## Grey gurnard IIIa, VIId and North Sea [GGURNIIIa-IV-VIId]

Metadata	
<b>Scientific Name</b>	Eutrigla gurnardus
<b>Current Assess ID</b>	WGNSSK-GGURNIIIa-IV-VIId-1983-2016-ICESIMP2016
<b>Area</b>	IIIa, VIId and North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016

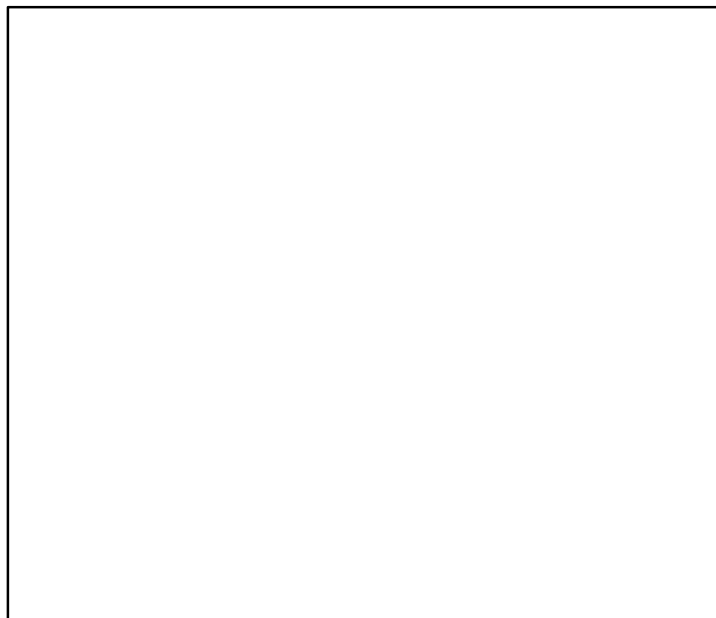
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2030		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

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

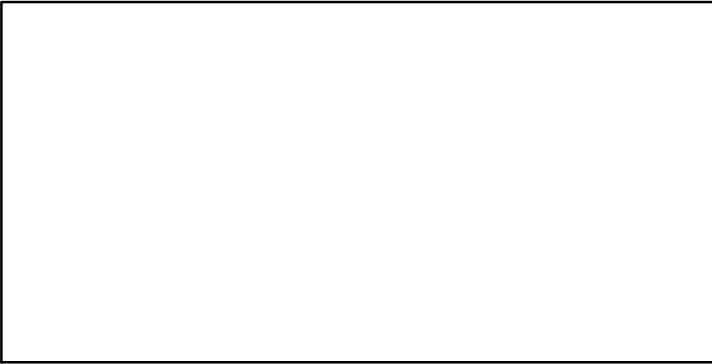
**TB\***



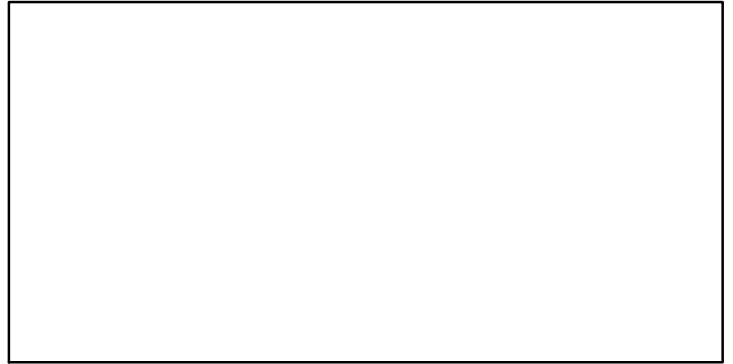
**SSB\***



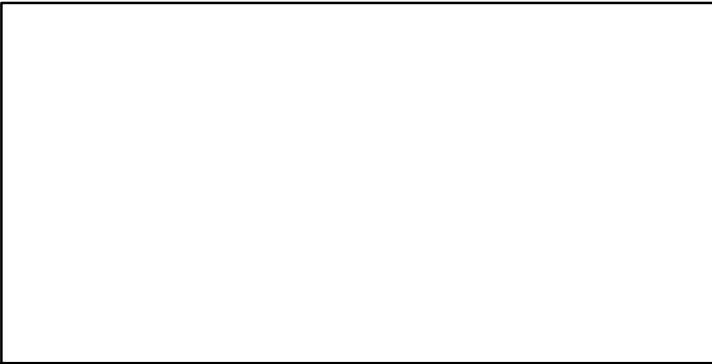
**TN \***



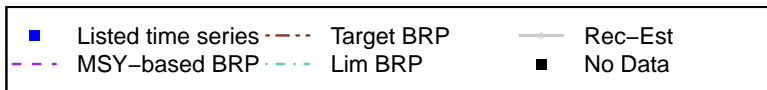
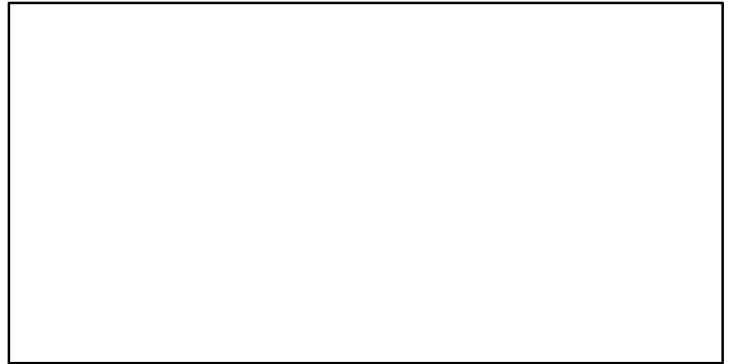
**F\***



**ER\***



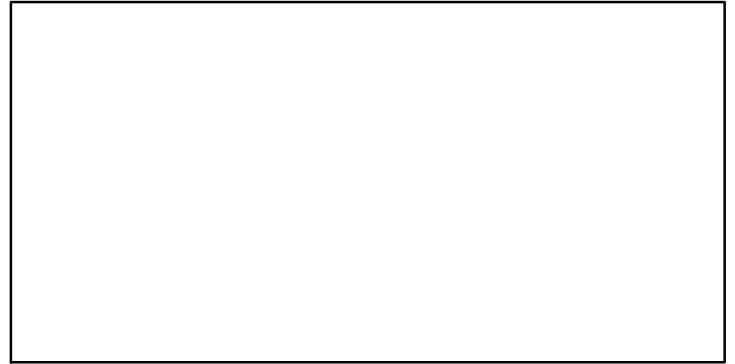
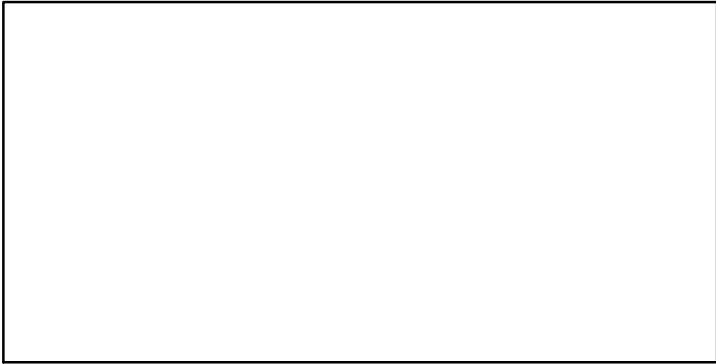
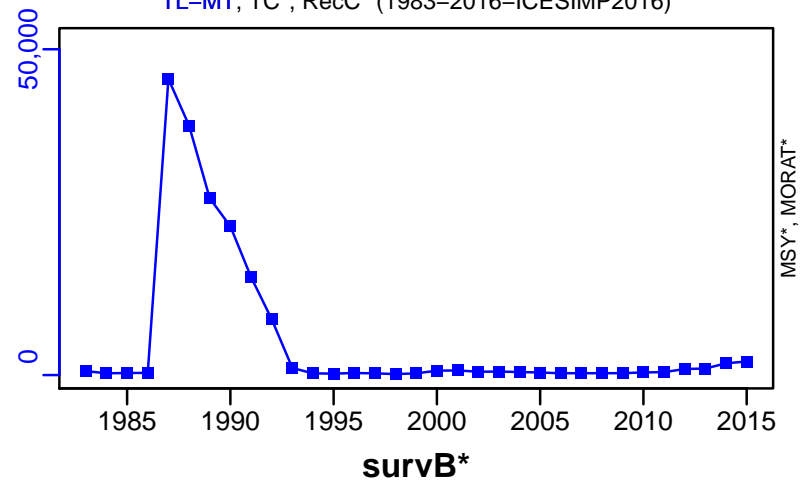
**Recruits\***



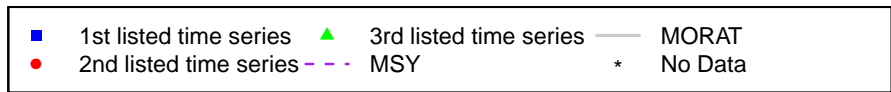
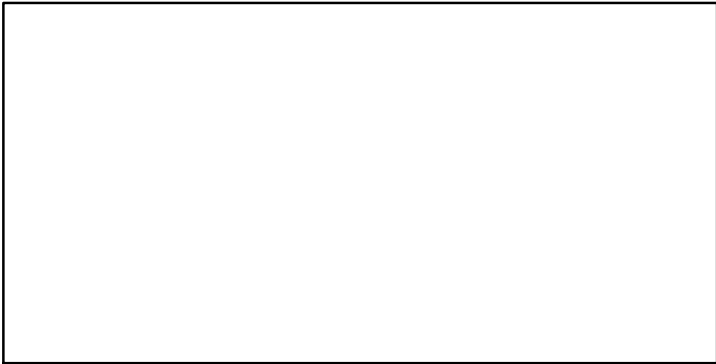
# Grey gurnard IIIa, VIId and North Sea [GGURNIIIa-IV-VIId]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



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

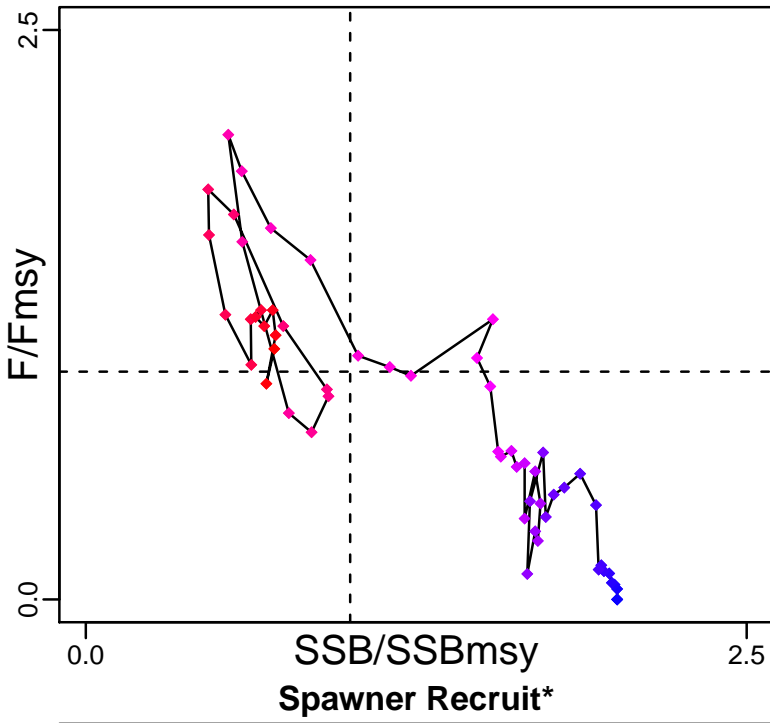
Metadata	
<b>Scientific Name</b>	Reinhardtius hippoglossoides
<b>Current Assess ID</b>	NWWG-GHALV-VI-XII-XIV-1960-2016-ICESIMP2016
<b>Area</b>	V-VI-XII-XIV
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>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

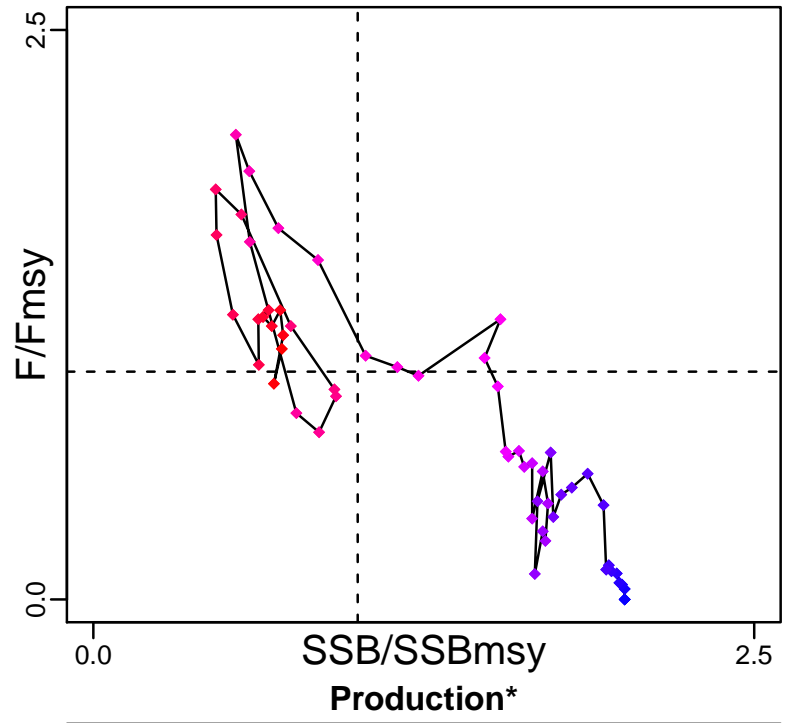
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	25,700		
TL	TL-MT	2016	25,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2016	0.73		
F/Fmsy	FdivFmsy-dimensionless	2016	1.1		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1960–2016–ICESIMP2016)



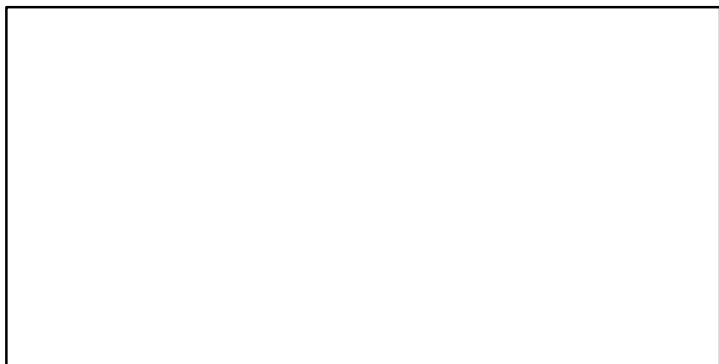
Kobe MGTpref (1960–2016–ICESIMP2016)



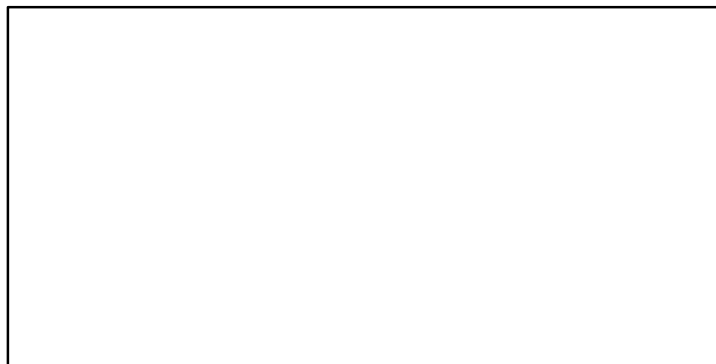
◆ Start Year ◆ End Year \* No Data

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

**TB\***



**SSB\***



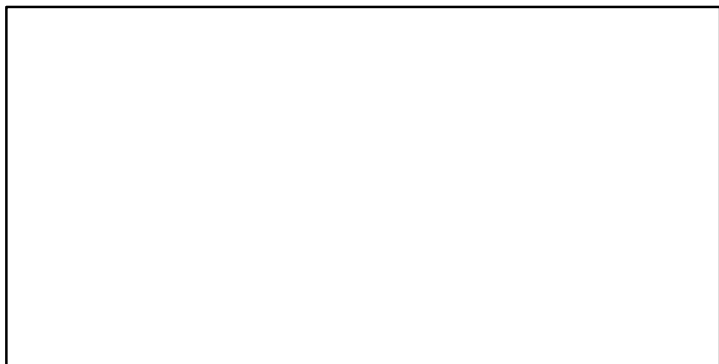
**TN \***



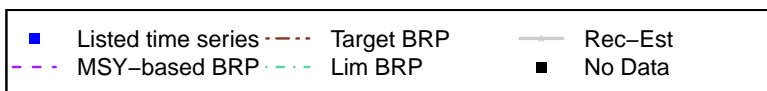
**F\***



**ER\***

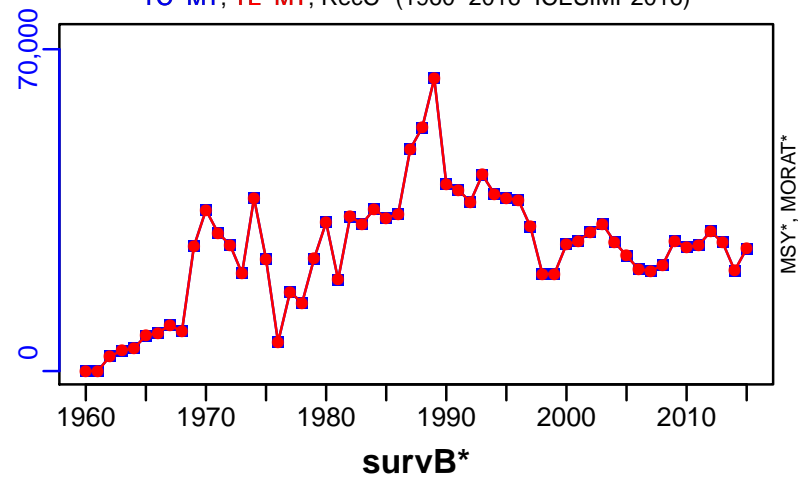


**Recruits\***



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

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



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



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

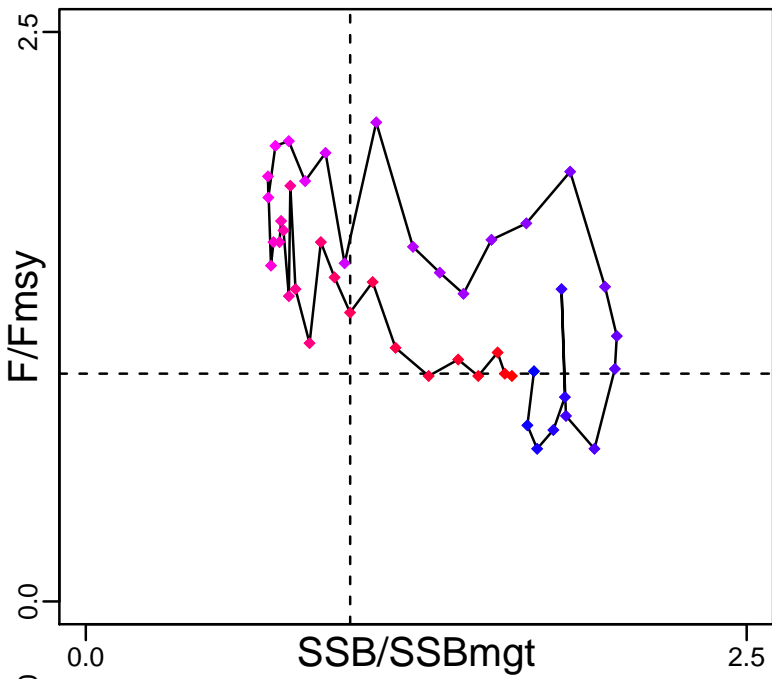
Metadata	
<b>Scientific Name</b>	Sebastes norvegicus
<b>Current Assess ID</b>	NWWG-GOLDREDV-VI-XII-XIV-1971-2016-ICESIMP2016
<b>Area</b>	V-VI-XII-XIV
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2014,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.097
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	220,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.097
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	160,000
<b>Flim</b>	Flim-1/yr	2016	0.226
<b>ERlim</b>	-	-	-

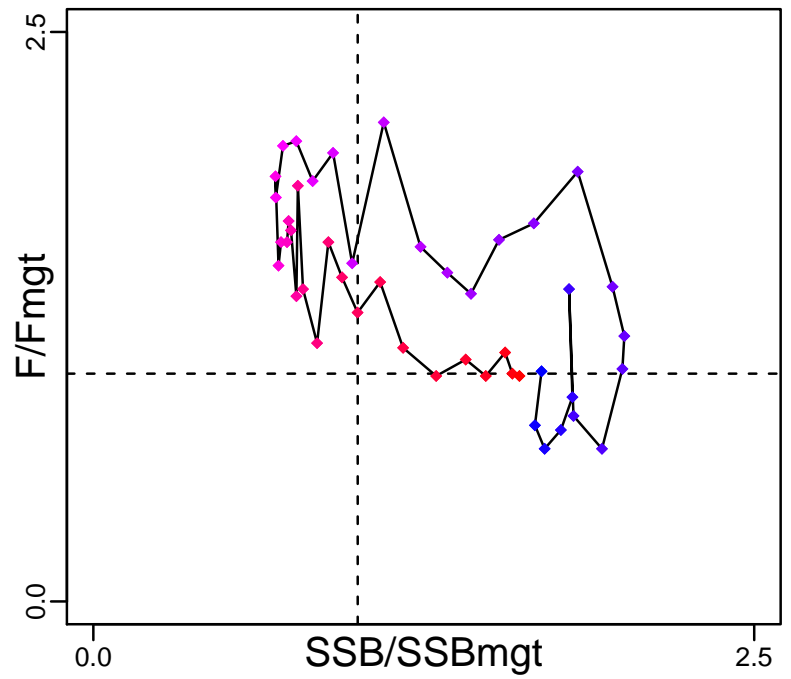
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	528,000	Both	-
<b>SSB</b>	SSB-MT	2016	355,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$5.4 \times 10^7$	-	0
<b>F</b>	F-1/yr	2016	0.096	-	-
<b>ER</b>	ER-calc-ratio	2016	0.095	-	-
<b>TC</b>	TC-MT	2016	51,600		
<b>TL</b>	TL-MT	2016	51,600		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.99		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.613		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.99		
<b>ER/ERmgt</b>	-	-	-		

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

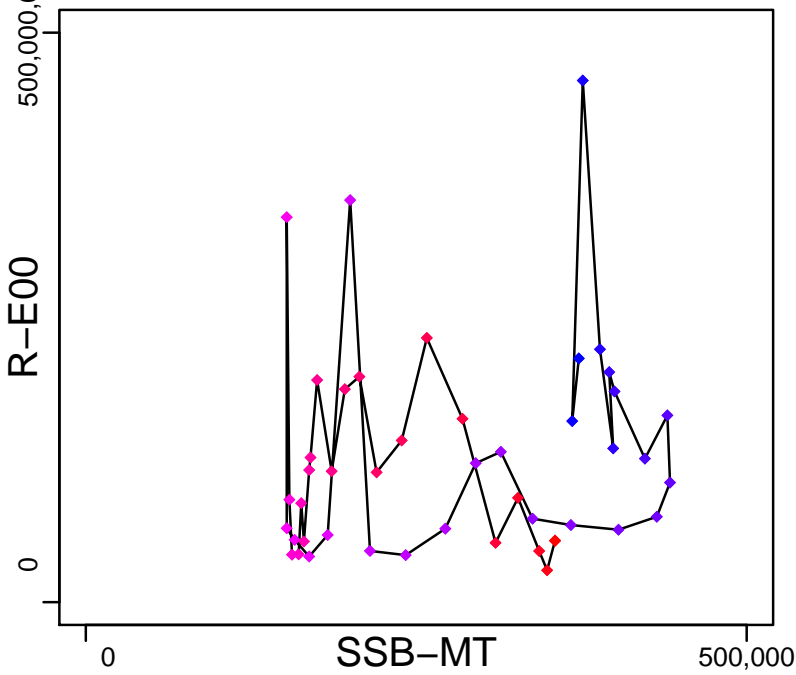
Kobe MSYpref (1971-2016-ICESIMP2016)



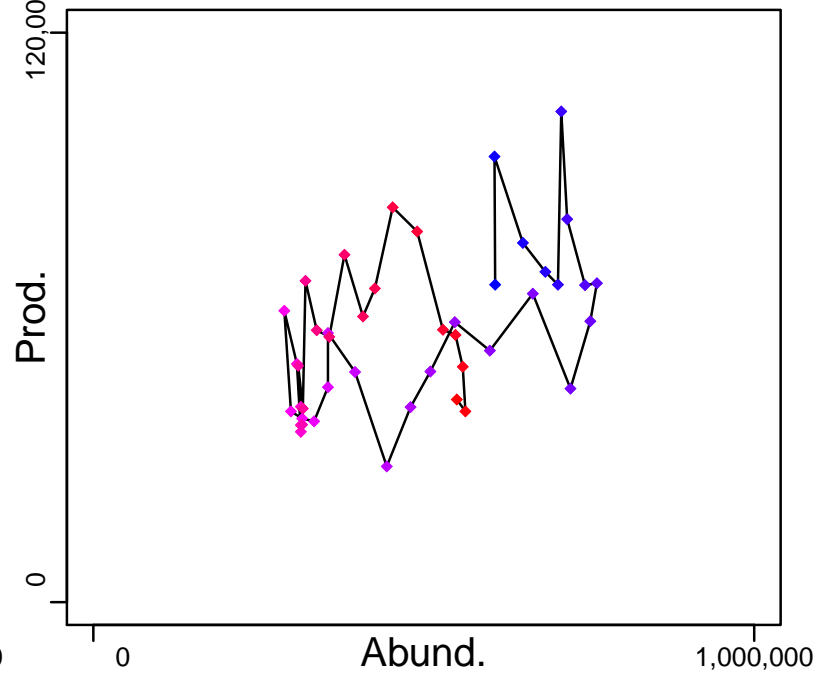
Kobe MGTpref (1971-2016-ICESIMP2016)



Spawner Recruit (1971-2016-ICESIMP2016)



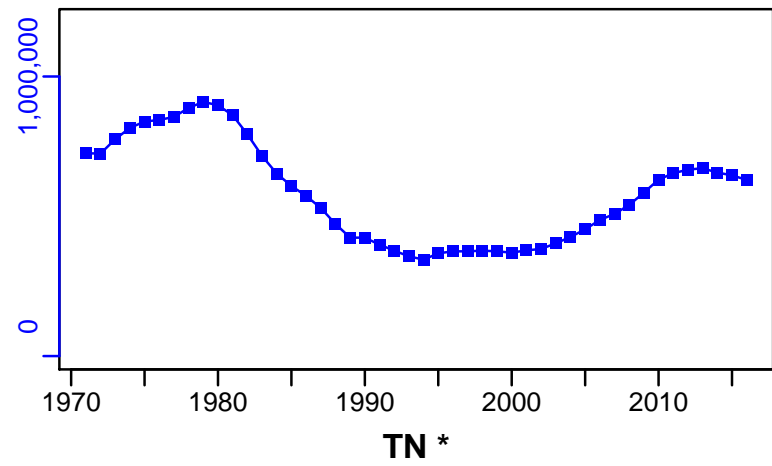
Production (1971-2016-ICESIMP2016)



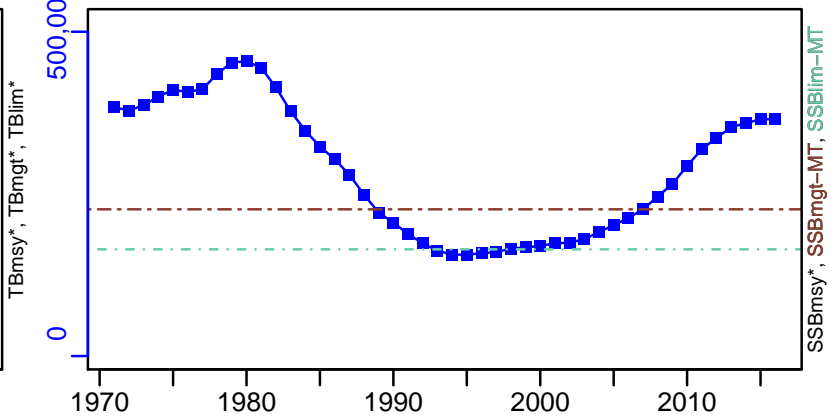
◆ Start Year ◆ End Year \* No Data

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

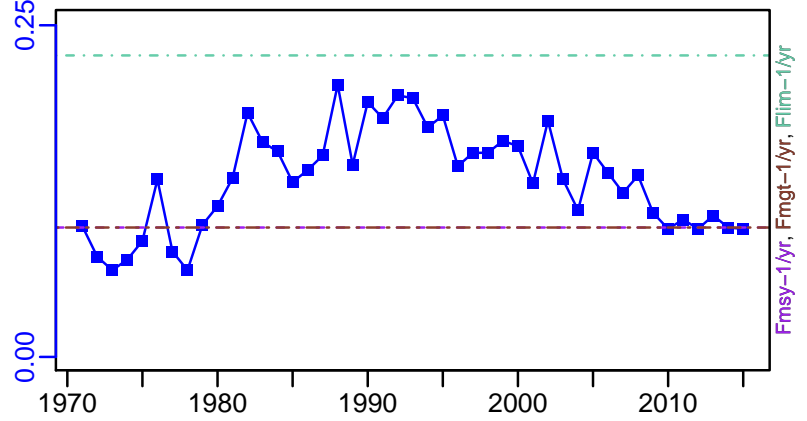
TB-MT (1971-2016-ICESIMP2016)



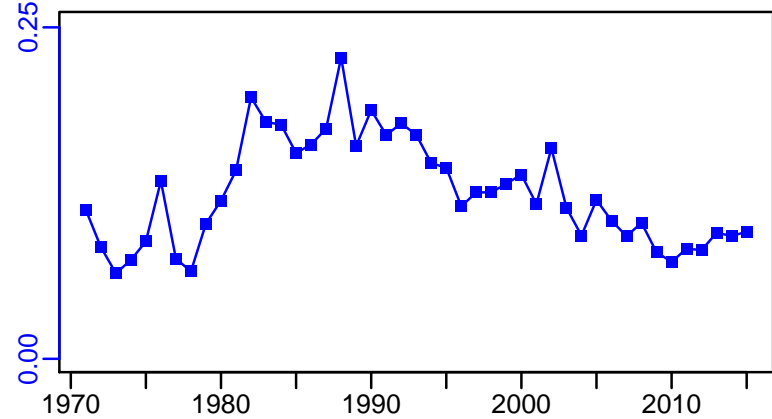
SSB-MT (1971-2016-ICESIMP2016)



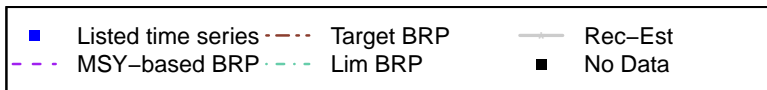
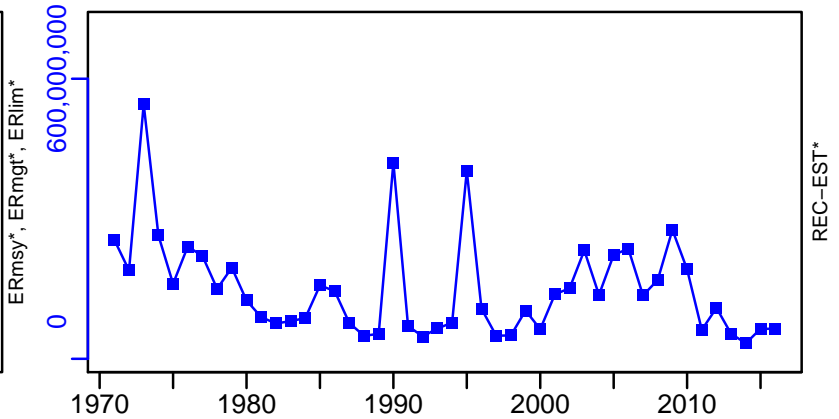
F-1/yr (1971-2016-ICESIMP2016)



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



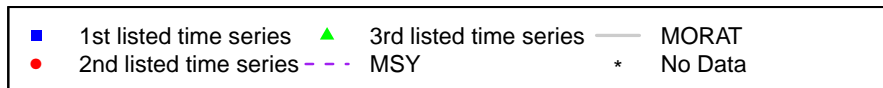
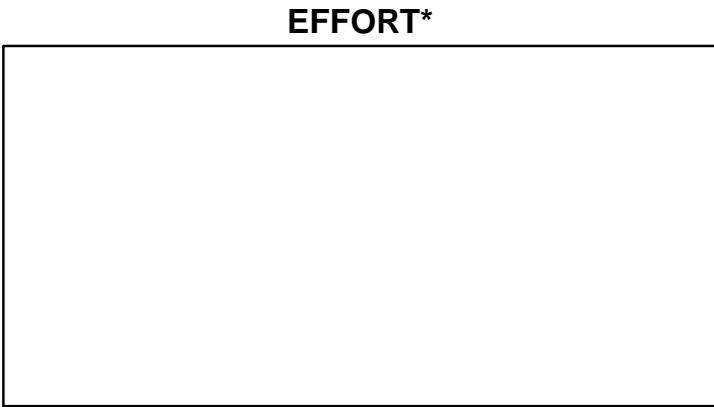
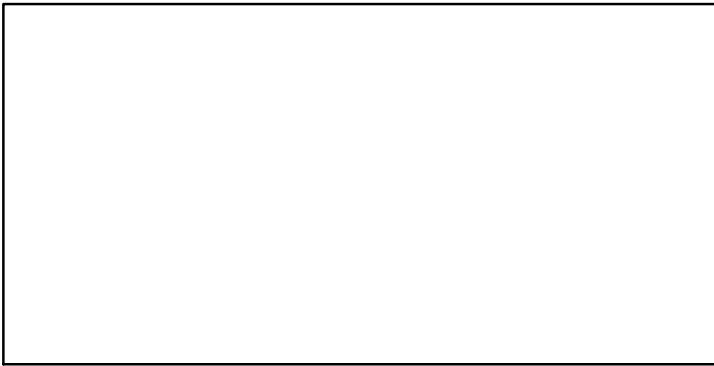
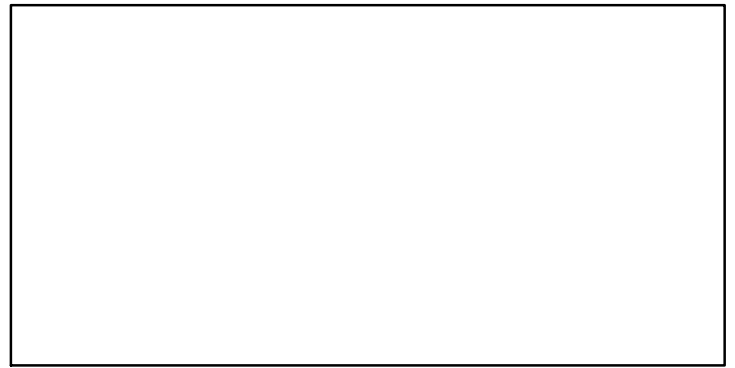
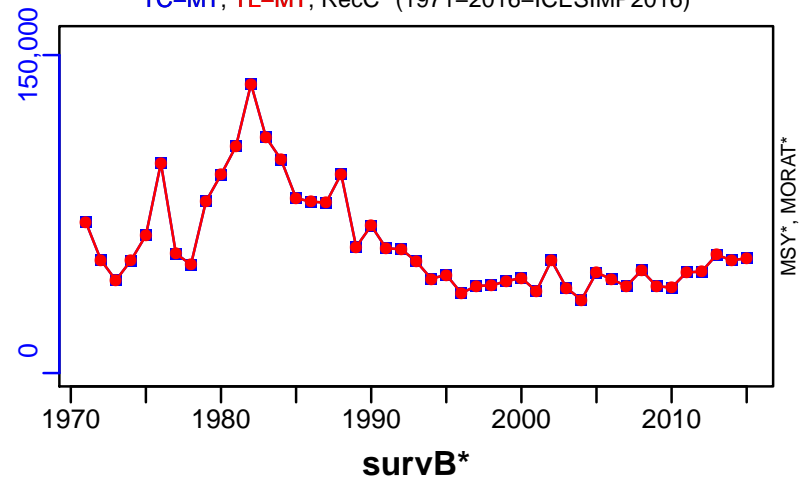
R-E00 (1971-2016-ICESIMP2016)



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

TC-MT, TL-MT, RecC\* (1971-2016-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



## Haddock Irish Sea [HADIS]

Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	WGCSE-HADIS-1991-2016-ICESIMP2016
<b>Area</b>	Irish Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	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	-	-	-

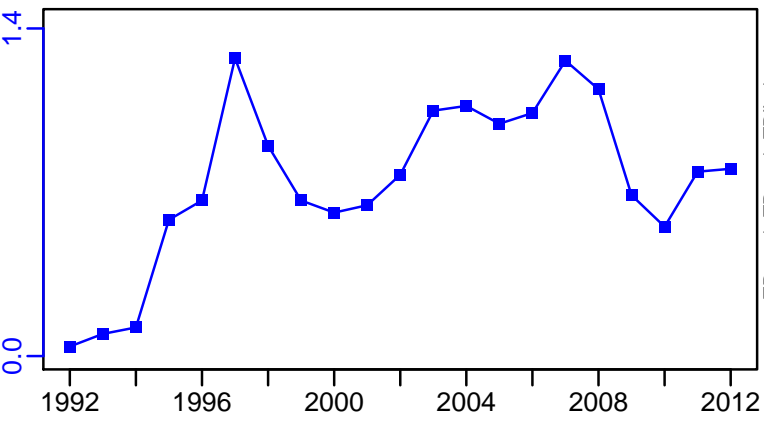
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2012	0.786	Both	-
SSB	SSB-relative	2016	2.53	Both	-
TN	-	-	-	-	-
R	R-relative	2016	1.07	-	1
F	F-relative	2016	0.859	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	1010		
TL	TL-MT	2016	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



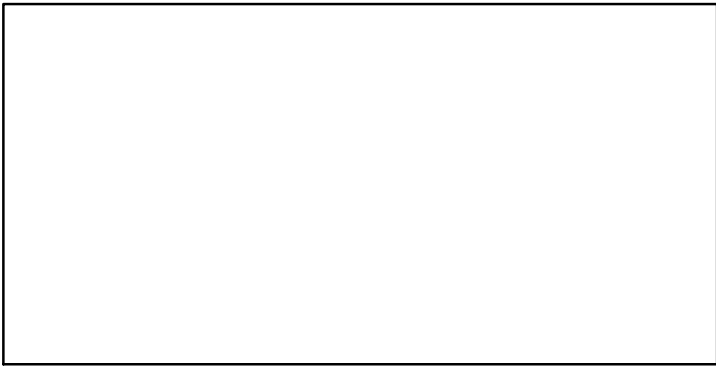
142

# Haddock Irish Sea [HADIS]

TB-relative (1972–2012–CHING)



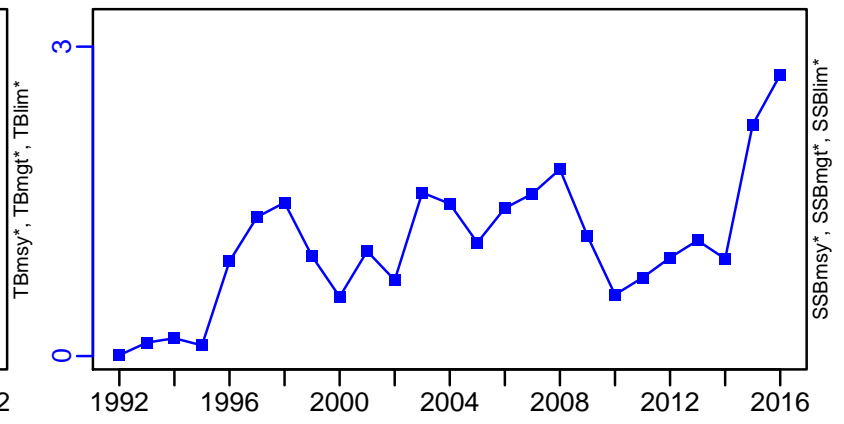
TN \*



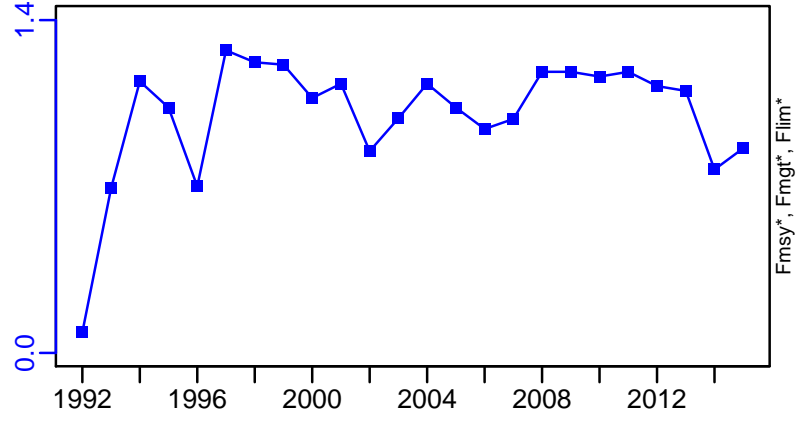
ER\*



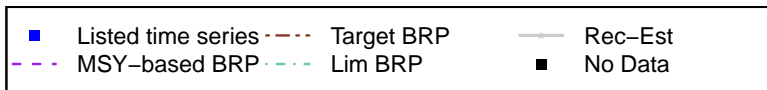
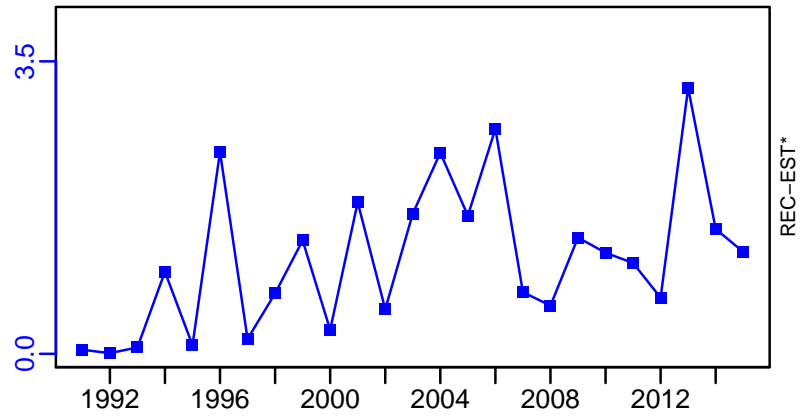
SSB-relative (1991–2016–ICESIMP2016)



F-relative (1991–2016–ICESIMP2016)

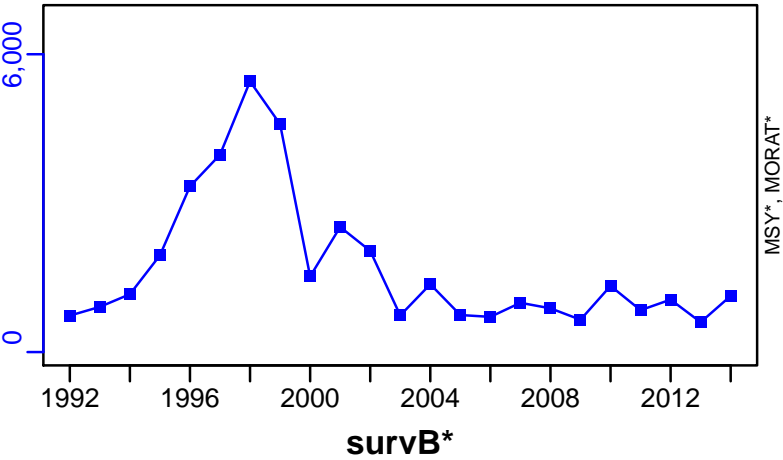


R-relative (1991–2016–ICESIMP2016)



Haddock Irish Sea [HADIS]

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



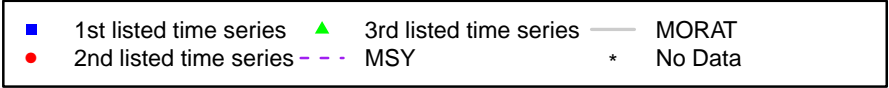
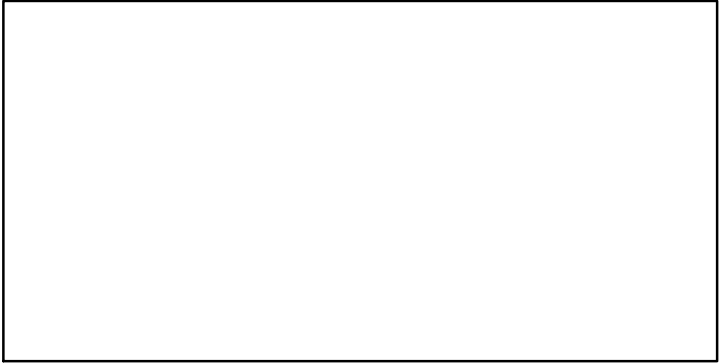
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

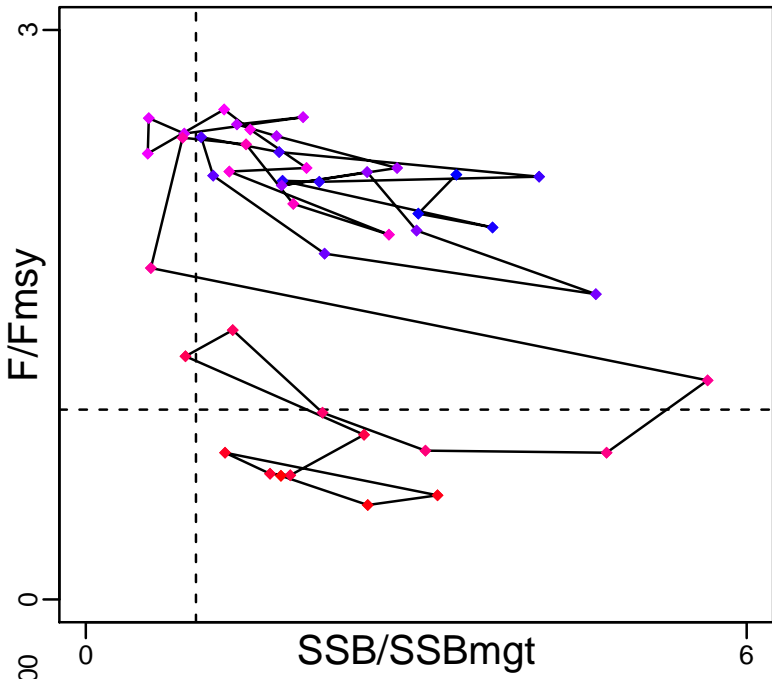
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	WGNSSK-HADNS-IIIa-VIa-1972-2015-ICESIMP2016
<b>Area</b>	North Sea and IIIa-VIa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.37
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2015	88,000
<b>Fmgt</b>	Fmgt-1/yr	2015	0.37
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2015	63,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

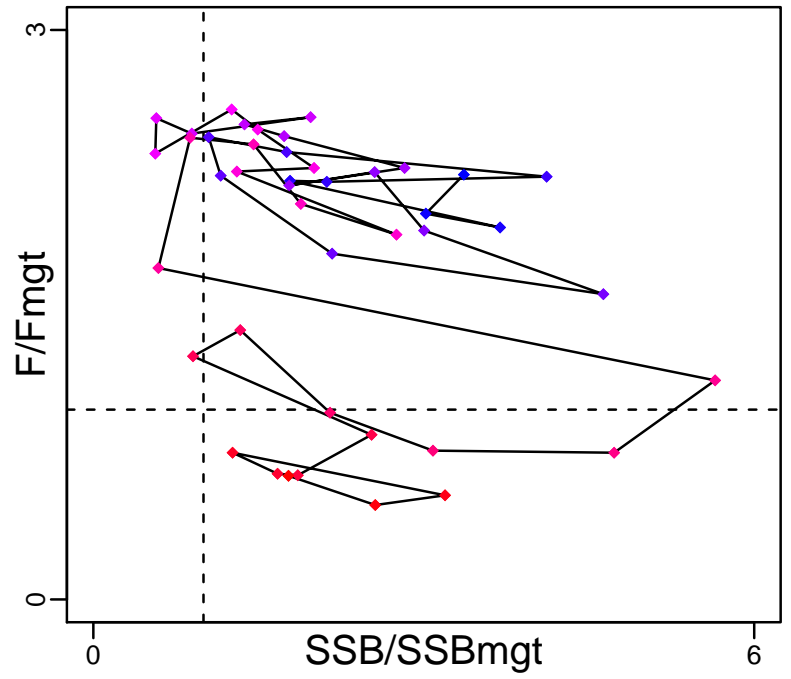
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	501,000	Both	-
<b>SSB</b>	SSB-MT	2015	146,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$1.21 \times 10^9$	-	0
<b>F</b>	F-1/yr	2015	0.241	-	-
<b>ER</b>	ER-calc-ratio	2015	0.1	-	-
<b>TC</b>	TC-MT	2015	46,300		
<b>TL</b>	TL-MT	2015	39,800		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.651		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2015	1.655		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.651		
<b>ER/ERmgt</b>	-	-	-		

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

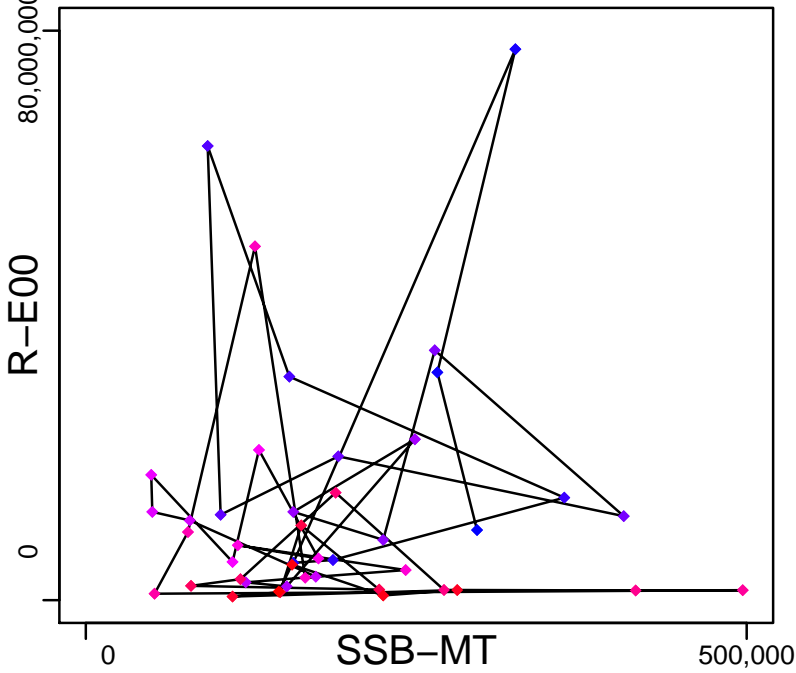
Kobe MSYpref (1972–2015–ICESIMP2016)



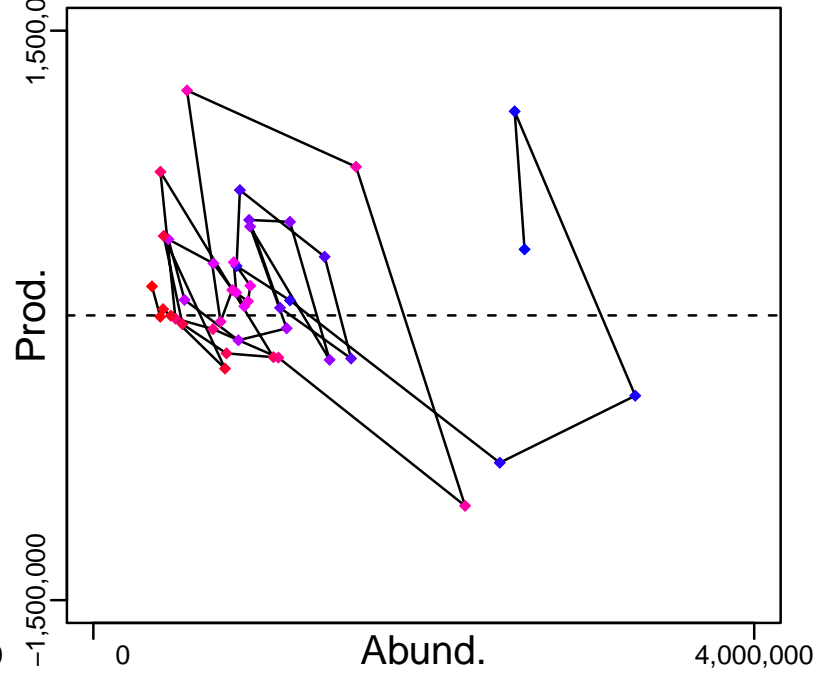
Kobe MGTpref (1972–2015–ICESIMP2016)



Spawner Recruit (1972–2015–ICESIMP2016)



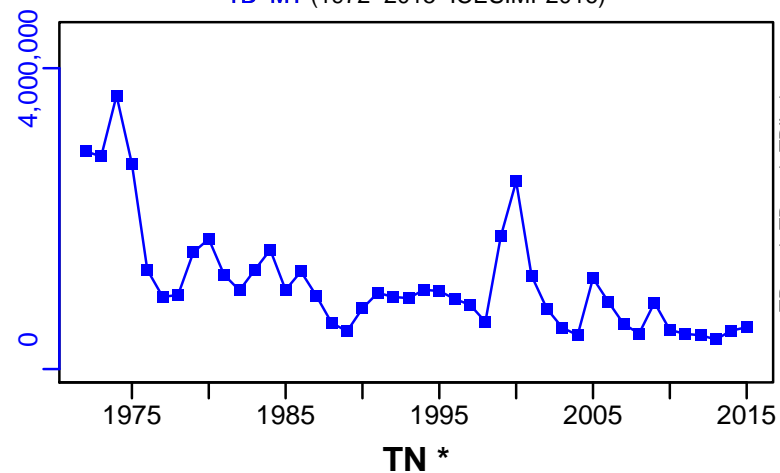
Production (1972–2015–ICESIMP2016)



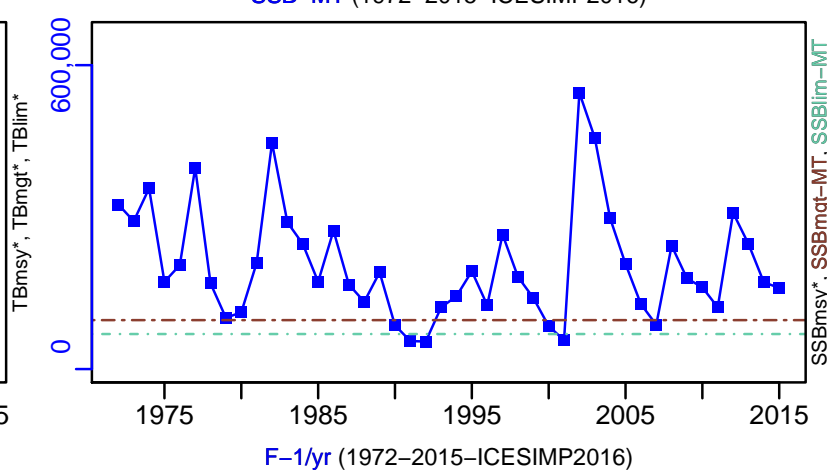
◆ Start Year ◆ End Year \* No Data

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

TB-MT (1972–2015–ICESIMP2016)



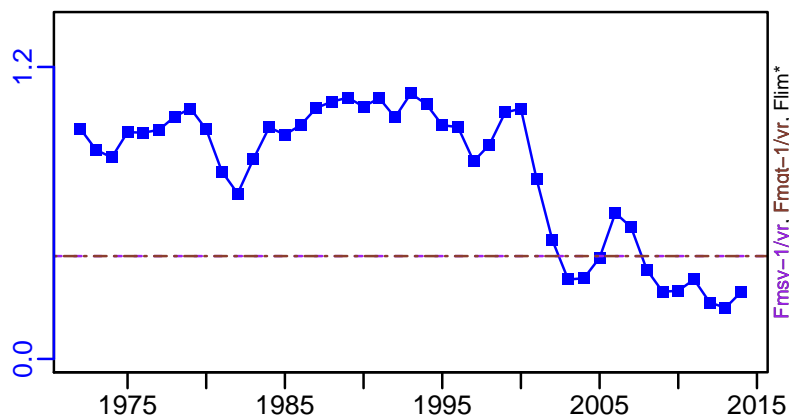
SSB-MT (1972–2015–ICESIMP2016)



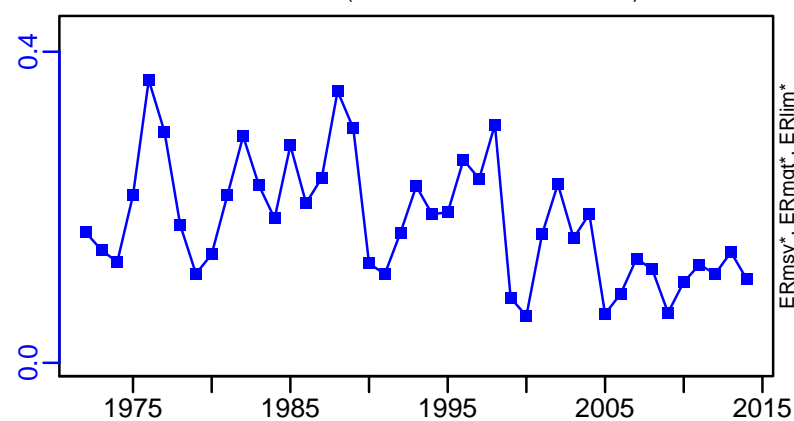
TN \*



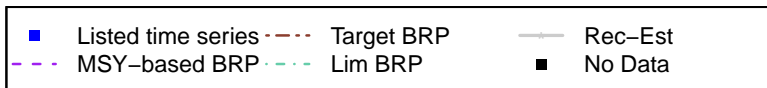
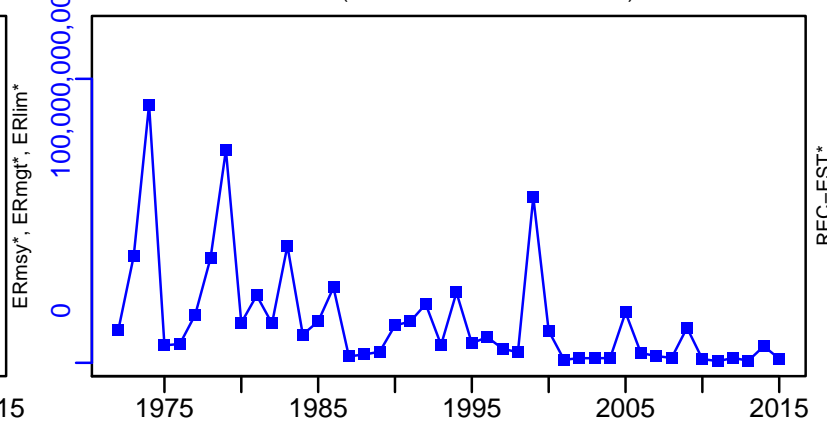
F-1/yr (1972–2015–ICESIMP2016)



ER-calc-ratio (1972–2015–ICESIMP2016)

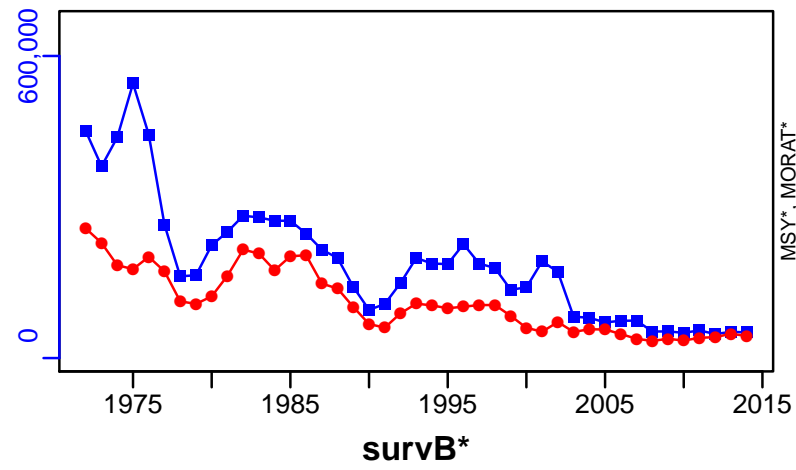


R-E00 (1972–2015–ICESIMP2016)

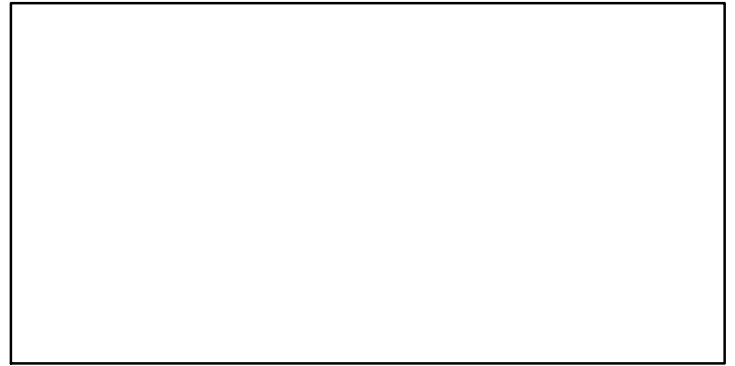


# Haddock North Sea and Illa-Via [HADNS-Illa-Via]

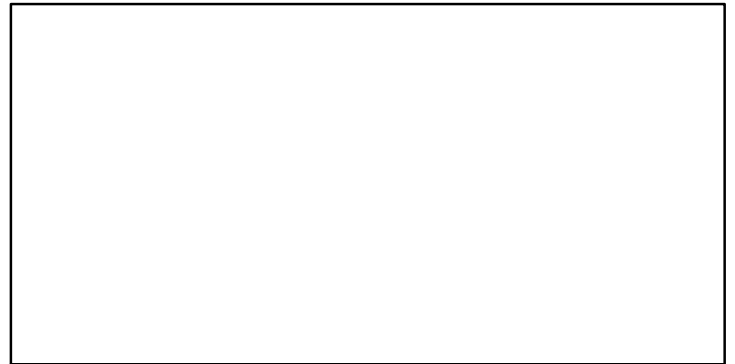
TC-MT, TL-MT, RecC\* (1972–2015–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Haddock Rockall Bank [HADROCK]

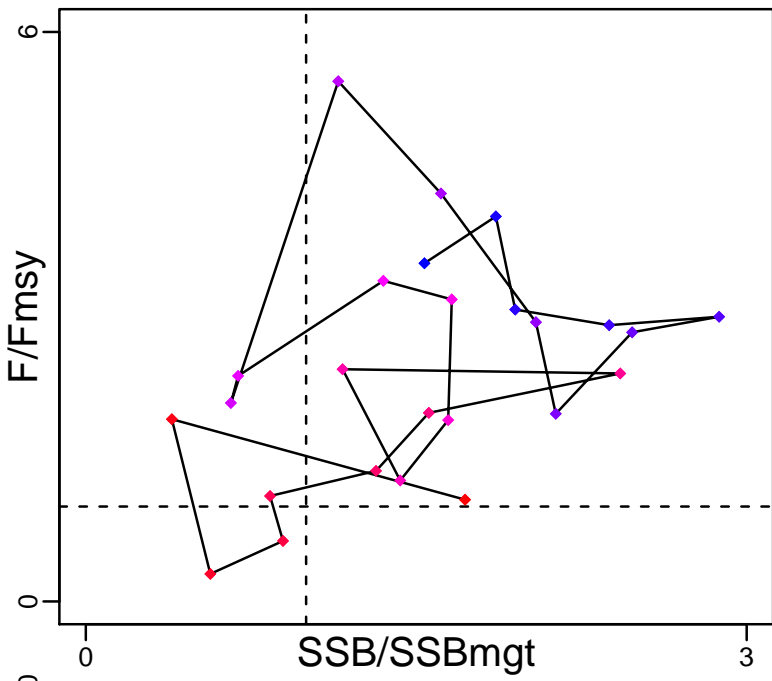
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	WGCSE-HADROCK-1990-2016-ICESIMP2016
<b>Area</b>	Rockall Bank
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>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

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

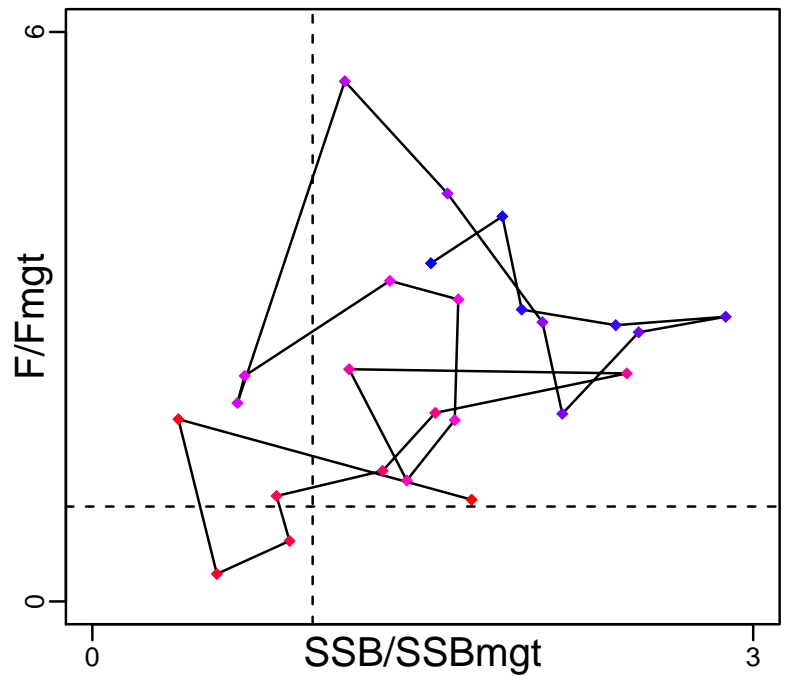
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	28,300	Both	-
<b>SSB</b>	SSB-MT	2016	23,600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	11,300,000	-	1
<b>F</b>	F-1/yr	2016	0.214	-	2 to 5
<b>ER</b>	ER-calc-ratio	2016	0.105	-	-
<b>TC</b>	TC-MT	2016	2970		
<b>TL</b>	TL-MT	2016	2450		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.072		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	2.314		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.072		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Rockall Bank [HADROCK]

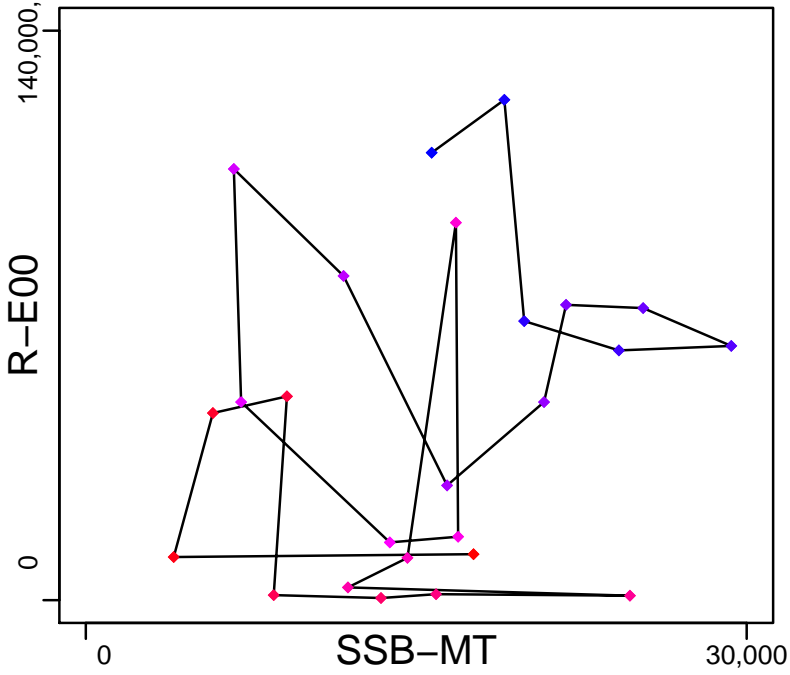
Kobe MSYpref (1990–2016–ICESIMP2016)



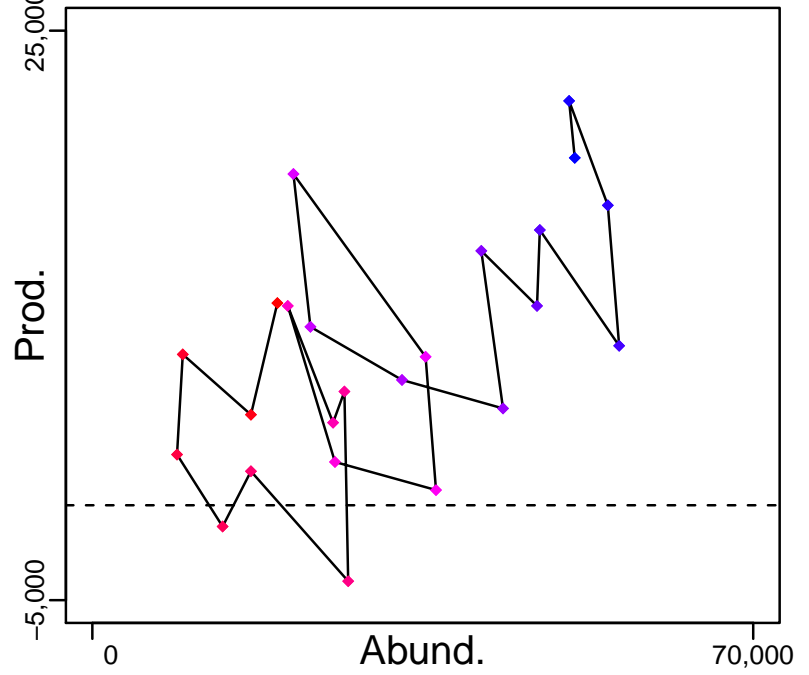
Kobe MGTpref (1990–2016–ICESIMP2016)



Spawner Recruit (1990–2016–ICESIMP2016)



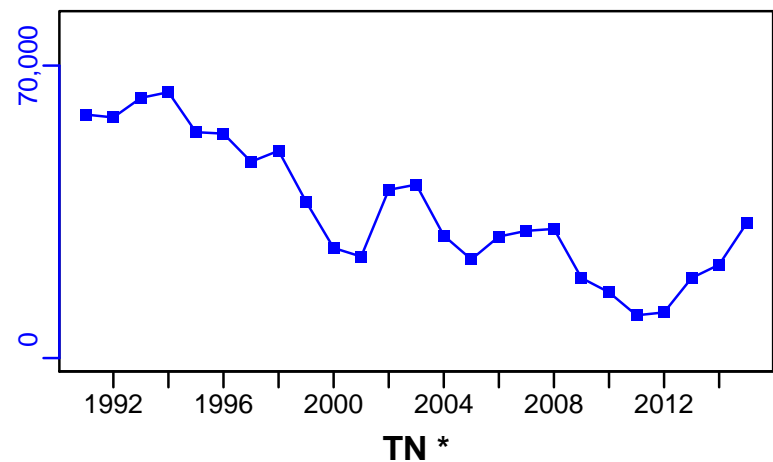
Production (1990–2016–ICESIMP2016)



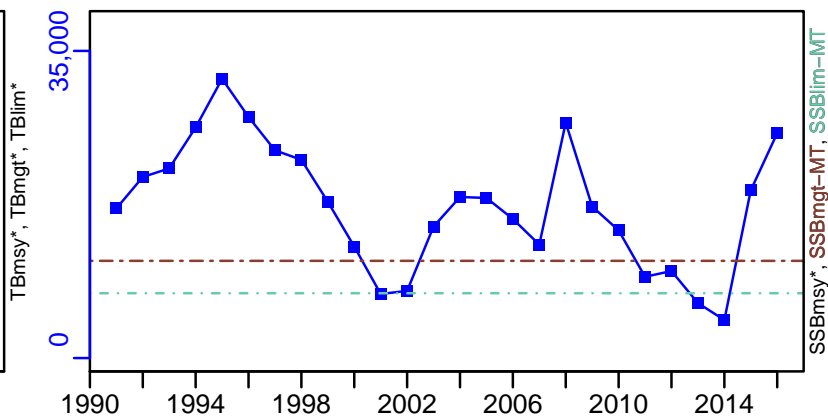
◆ Start Year ◆ End Year \* No Data

# Haddock Rockall Bank [HADROCK]

TB-MT (1990–2016–ICESIMP2016)



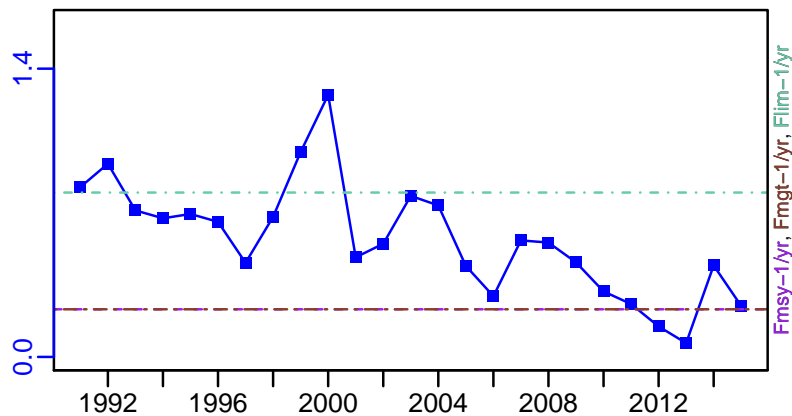
SSB-MT (1990–2016–ICESIMP2016)



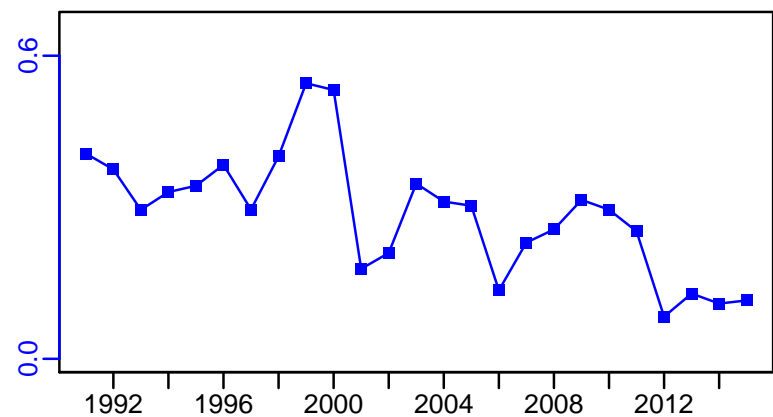
TN \*



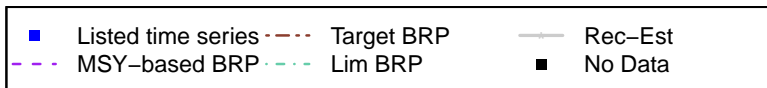
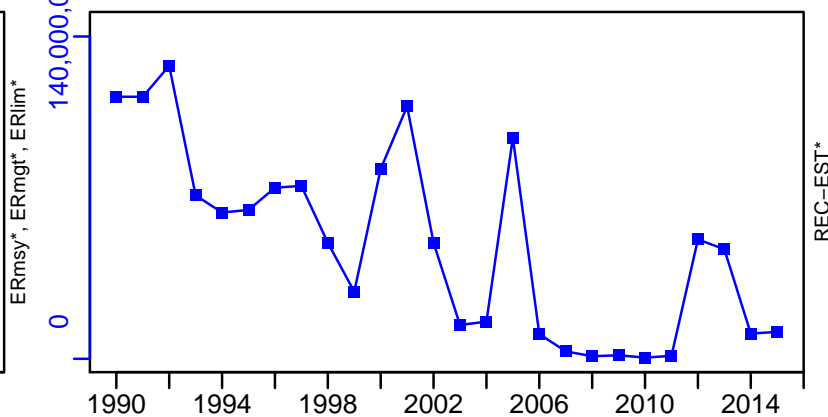
F-1/yr (1990–2016–ICESIMP2016)



ER-calc-ratio (1990–2016–ICESIMP2016)

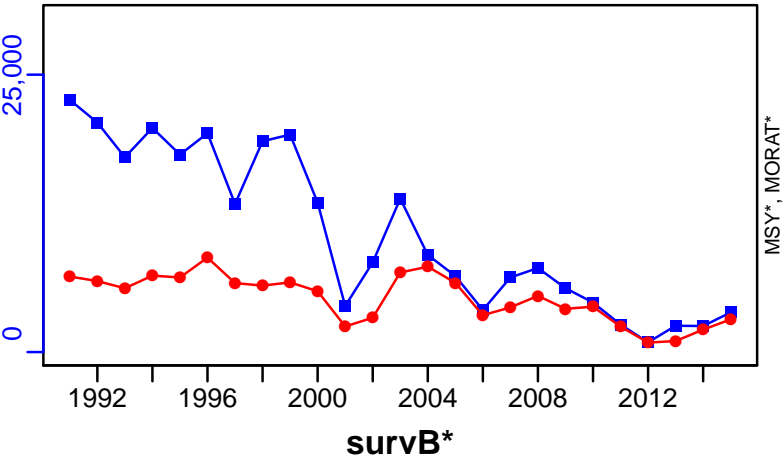


R-E00 (1990–2016–ICESIMP2016)



Haddock Rockall Bank [HADROCK]

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



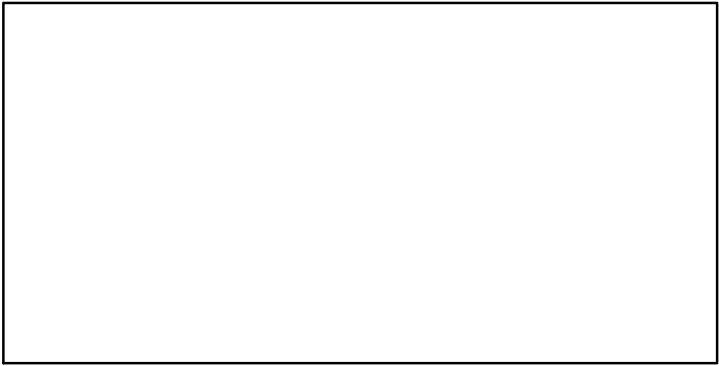
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Haddock ICES VIIb-k [HADVIIb-k]

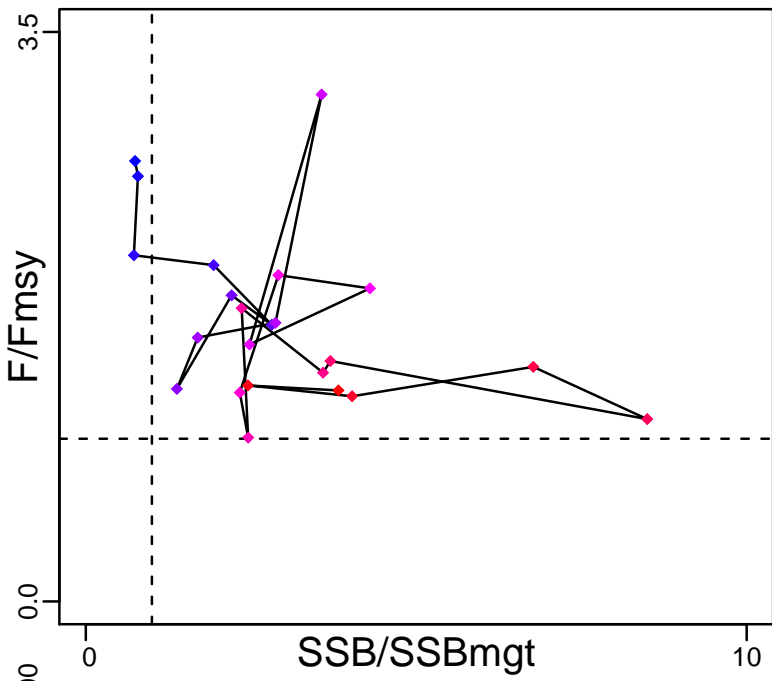
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	WGCSE-HADVIIb-k-1993-2016-ICESIMP2016
<b>Area</b>	ICES VIIb-k
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.4
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	10,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.4
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	6700
<b>Flim</b>	Flim-1/yr	2016	1.41
<b>ERlim</b>	-	-	-

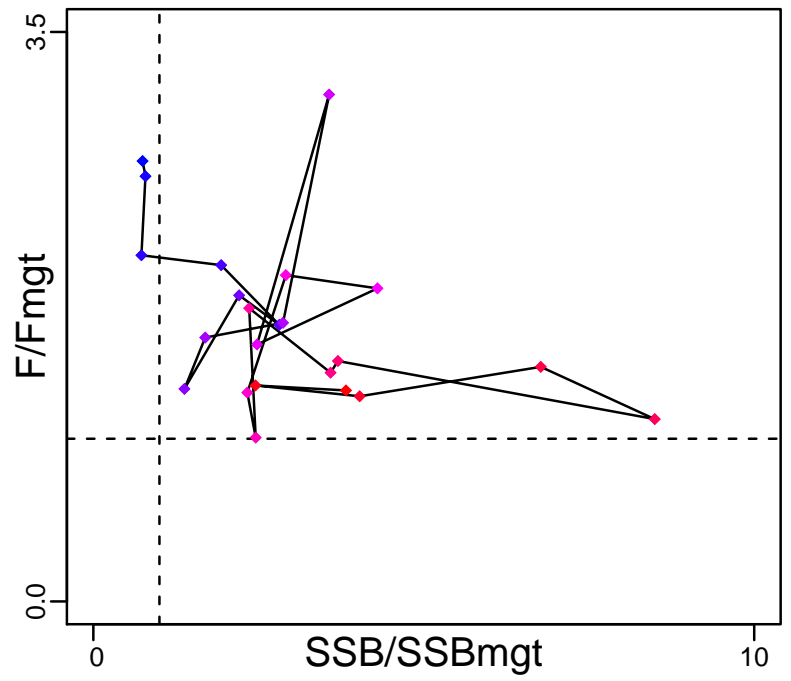
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	67,800	Both	-
<b>SSB</b>	SSB-MT	2016	26,100	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$2.66 \times 10^8$	-	0
<b>F</b>	F-1/yr	2016	0.519	-	3 to 5
<b>ER</b>	ER-calc-ratio	2016	0.225	-	-
<b>TC</b>	TC-MT	2016	15,200		
<b>TL</b>	TL-MT	2016	8550		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.297		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	2.608		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.297		
<b>ER/ERmgt</b>	-	-	-		

# Haddock ICES VIIb-k [HADVIIb-k]

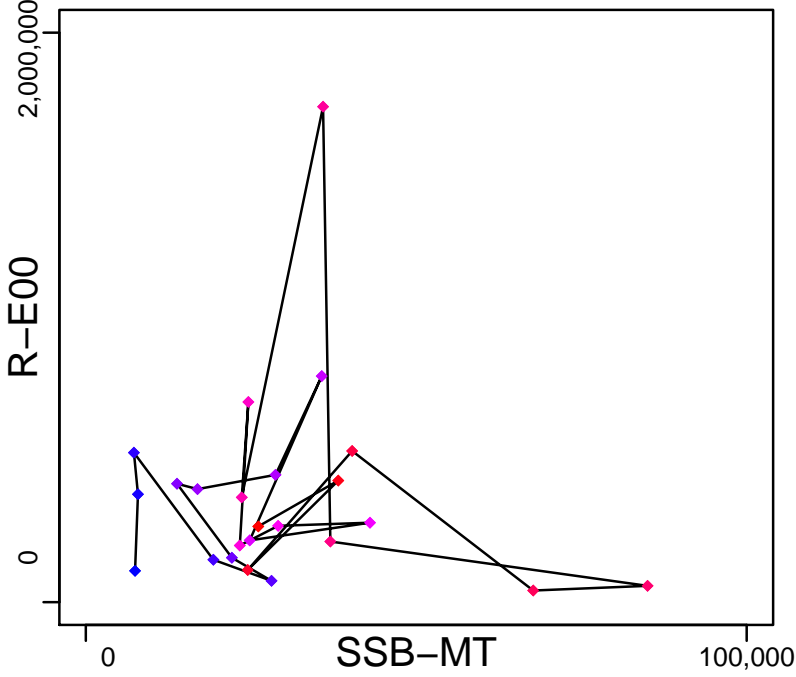
Kobe MSYpref (1993–2016–ICESIMP2016)



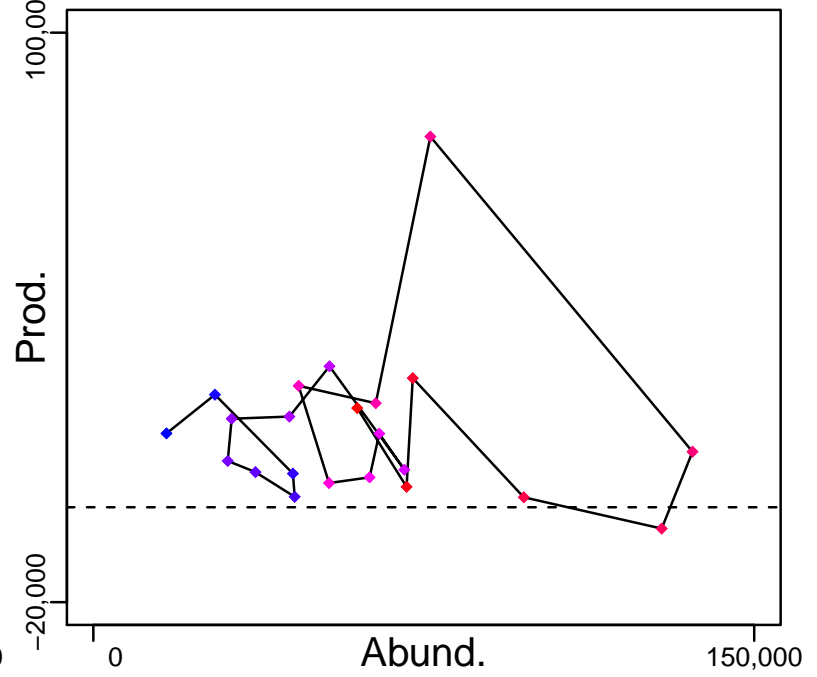
Kobe MGTpref (1993–2016–ICESIMP2016)



Spawner Recruit (1993–2016–ICESIMP2016)

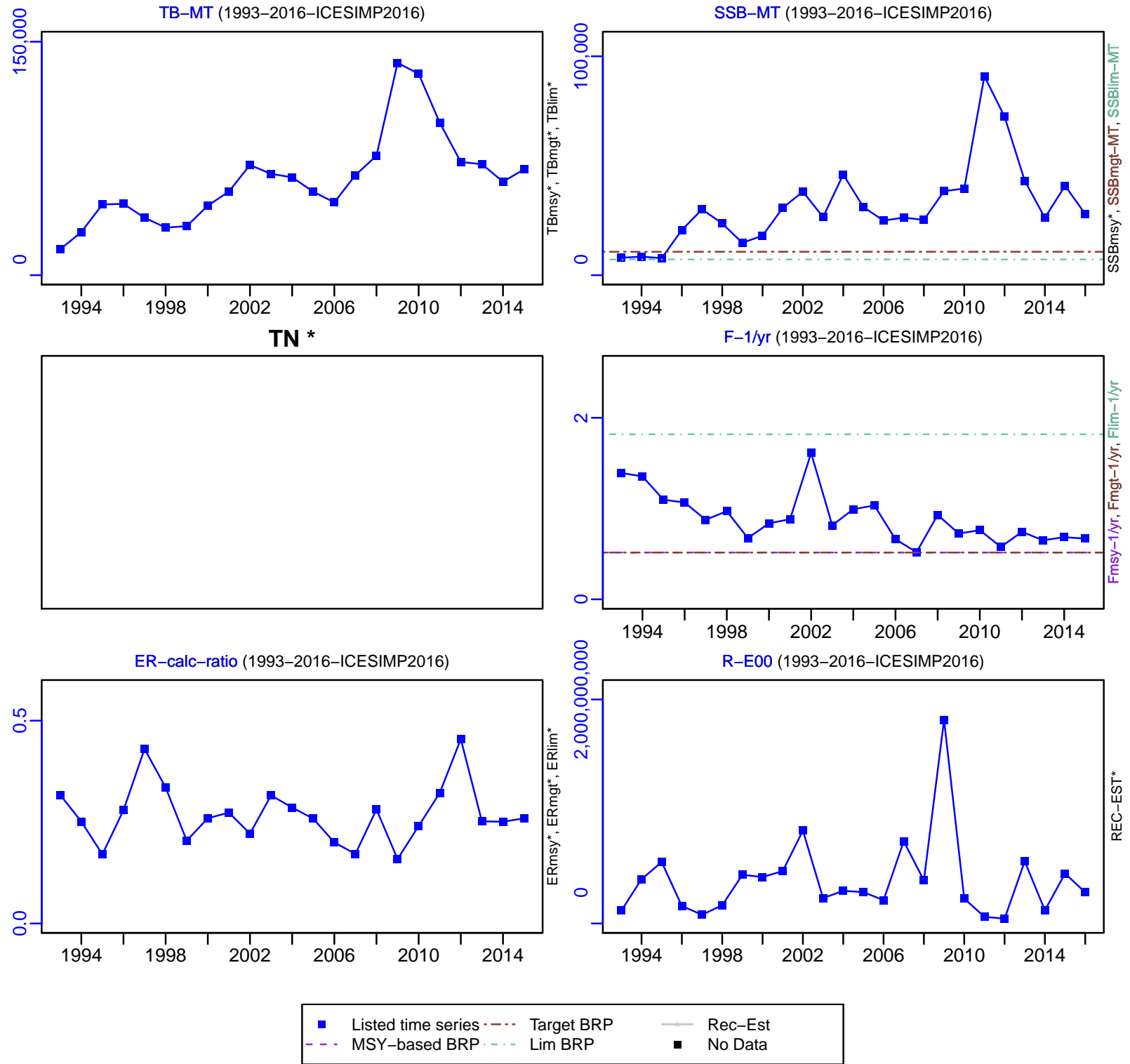


Production (1993–2016–ICESIMP2016)



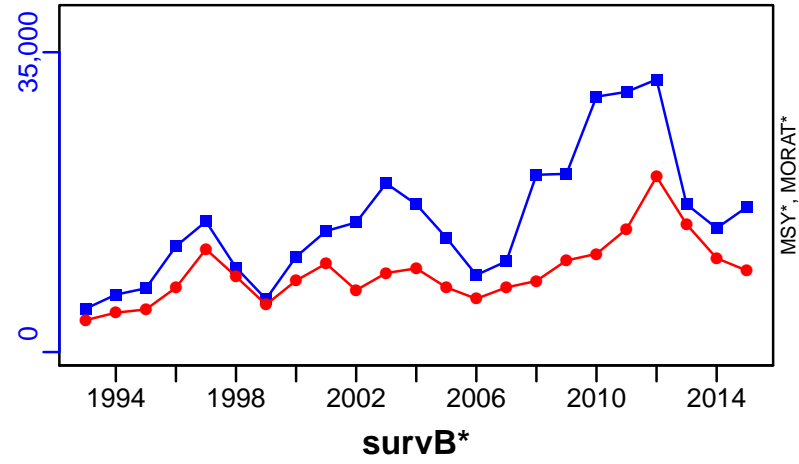
◆ Start Year ◆ End Year \* No Data

# Haddock ICES VIIb-k [HADVIIb-k]



# Haddock ICES VIIb-k [HADVIIb-k]

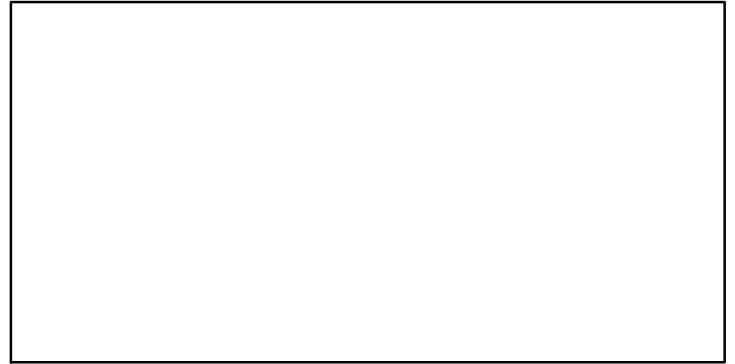
TC-MT, TL-MT, RecC\* (1993–2016–ICESIMP2016)



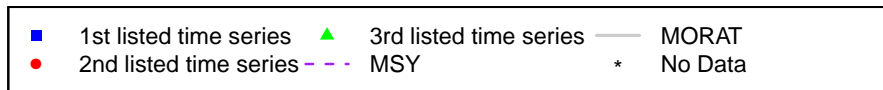
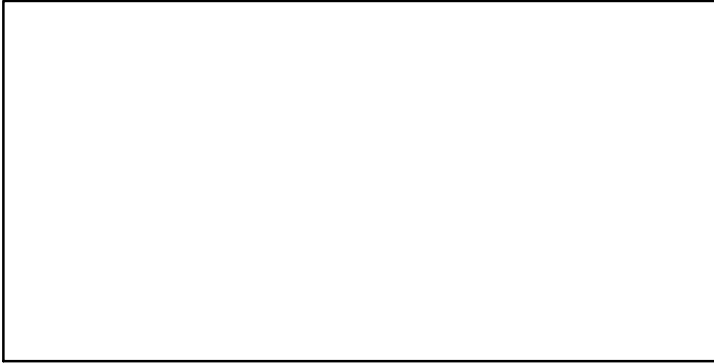
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Hake Northeast Atlantic North [HAKENRTN]

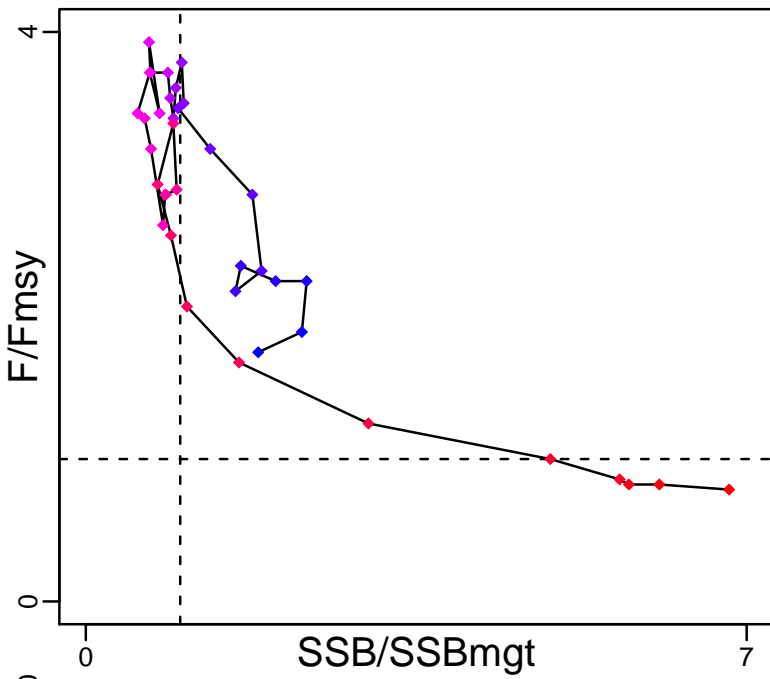
Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	WGBIE-HAKENRTN-1978-2016-ICESIMP2016
<b>Area</b>	IIIa-IV-VI-VII-VIIIabd
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.28
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	45,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.28
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	32,000
<b>Flim</b>	Flim-1/yr	2016	0.87
<b>ERlim</b>	-	-	-

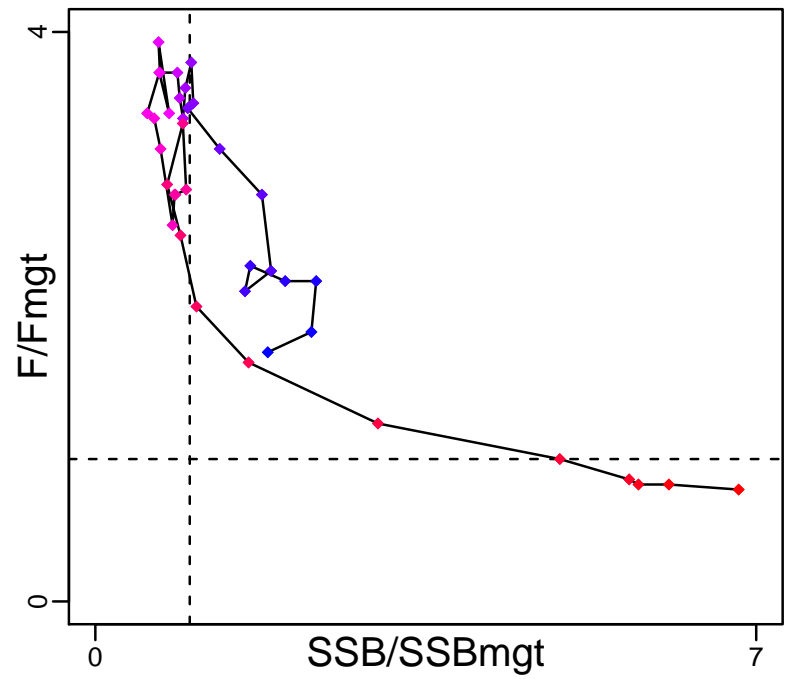
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	364,000	Both	-
<b>SSB</b>	SSB-MT	2016	330,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$3.16 \times 10^8$	-	0
<b>F</b>	F-1/yr	2016	0.22	-	-
<b>ER</b>	ER-calc-ratio	2016	0.278	-	-
<b>TC</b>	TC-MT	2016	101,000		
<b>TL</b>	TL-MT	2016	93,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.786		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	7.326		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.786		
<b>ER/ERmgt</b>	-	-	-		

# Hake Northeast Atlantic North [HAKENRTN]

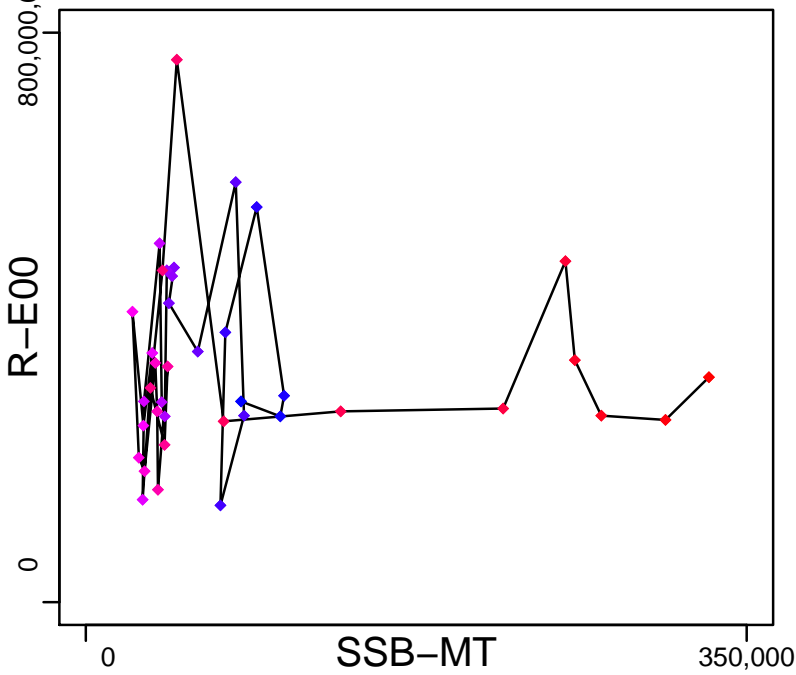
Kobe MSYpref (1978–2016–ICESIMP2016)



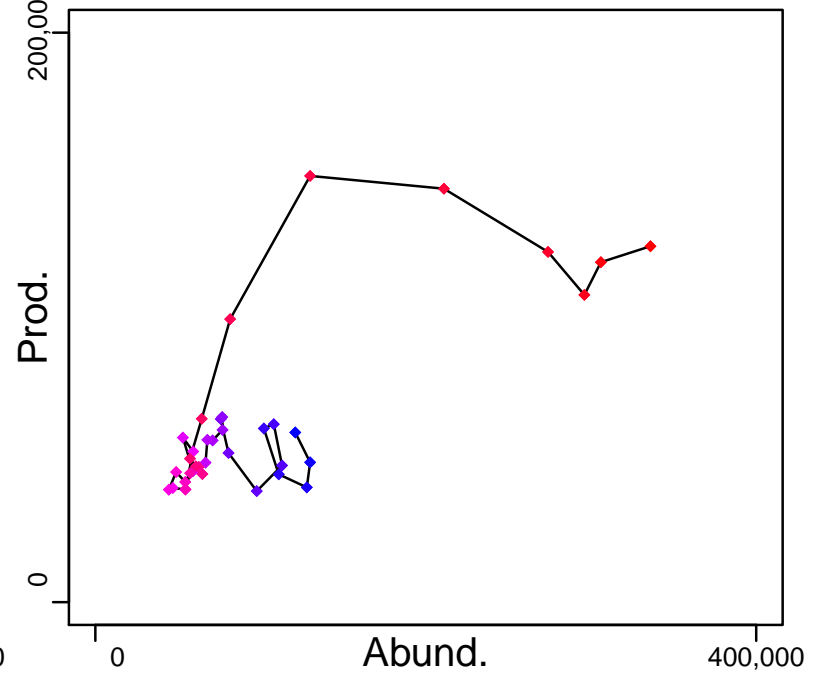
Kobe MGTpref (1978–2016–ICESIMP2016)



Spawner Recruit (1978–2016–ICESIMP2016)



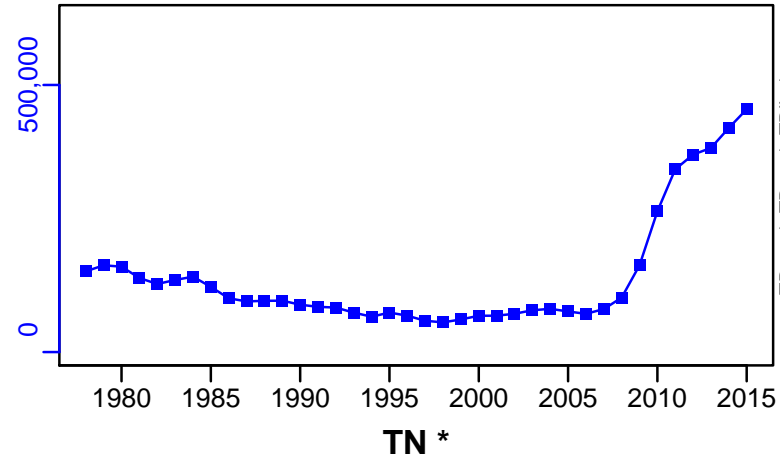
Production (1978–2016–ICESIMP2016)



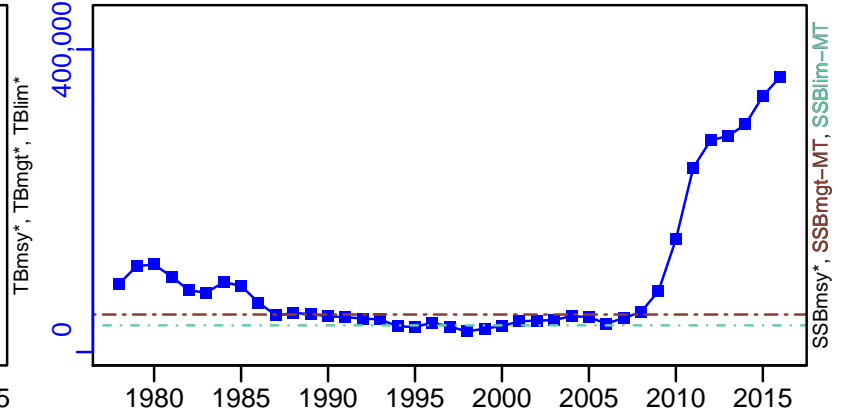
◆ Start Year ◆ End Year \* No Data

# Hake Northeast Atlantic North [HAKENRTN]

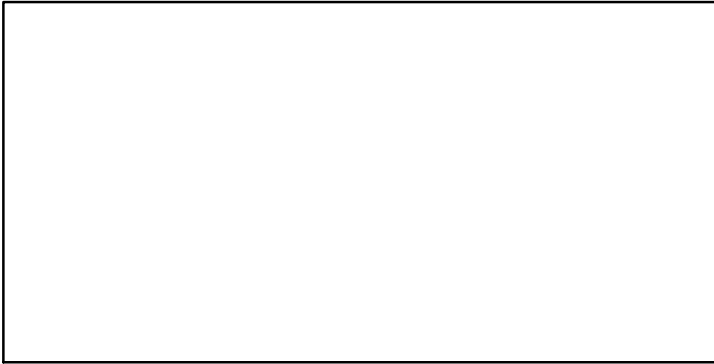
TB-MT (1978–2016–ICESIMP2016)



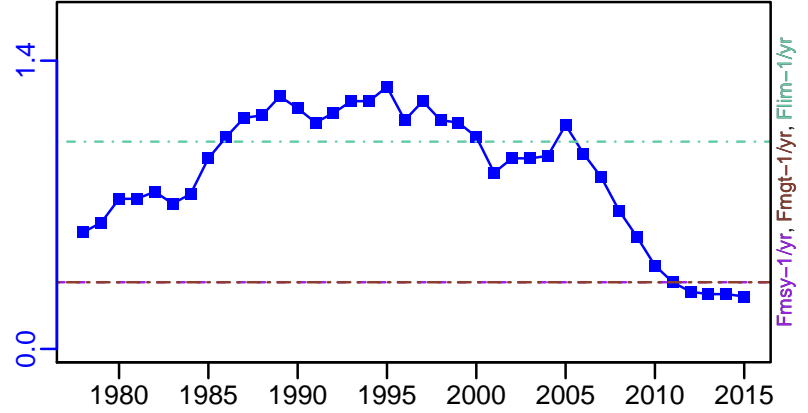
SSB-MT (1978–2016–ICESIMP2016)



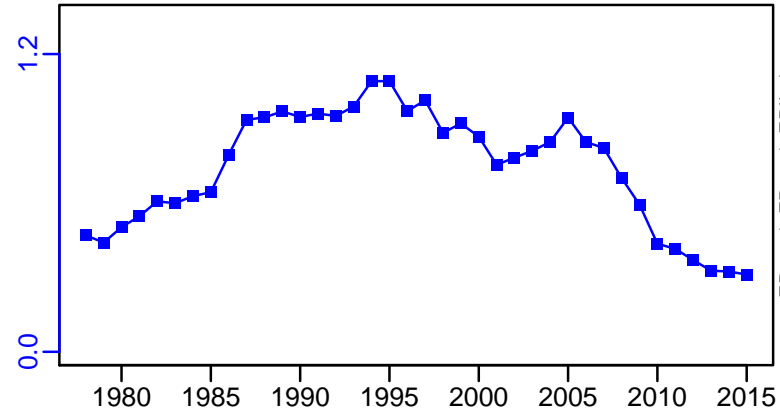
TN \*



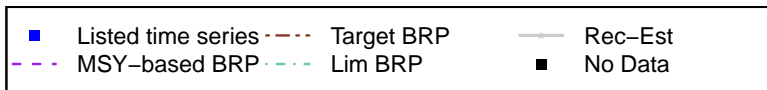
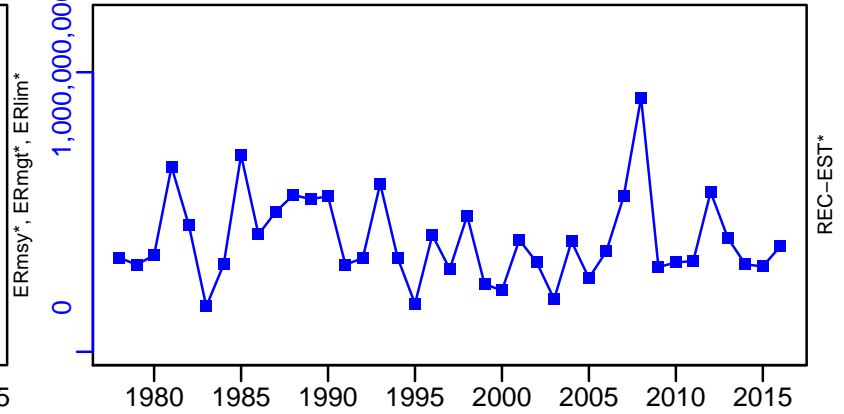
F-1/yr (1978–2016–ICESIMP2016)



ER-calc-ratio (1978–2016–ICESIMP2016)

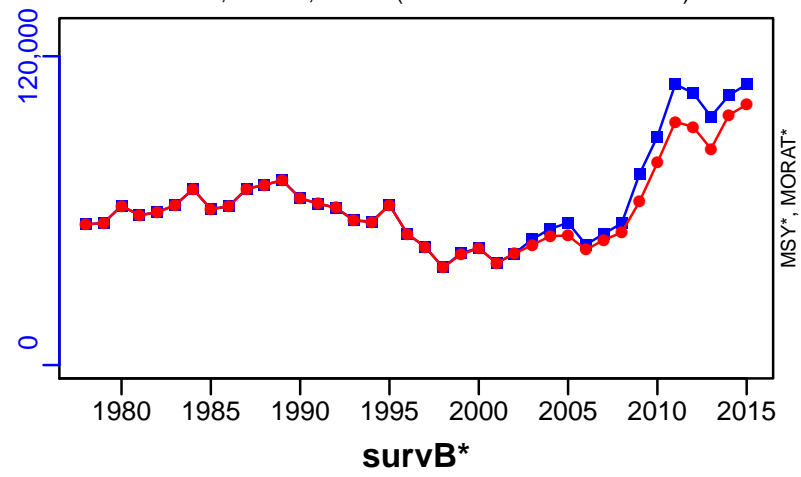


R-E00 (1978–2016–ICESIMP2016)

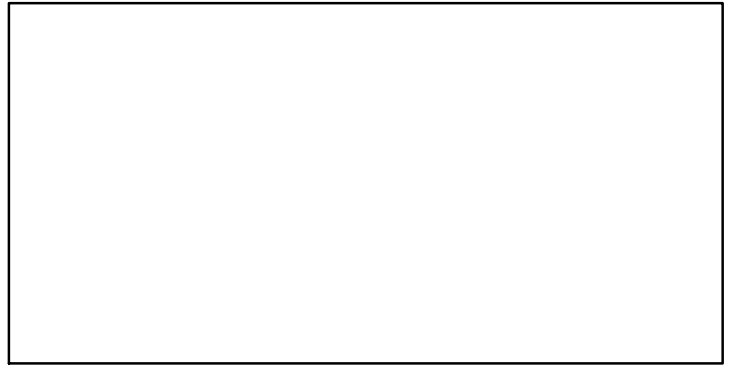


Hake Northeast Atlantic North [HAKENRTN]

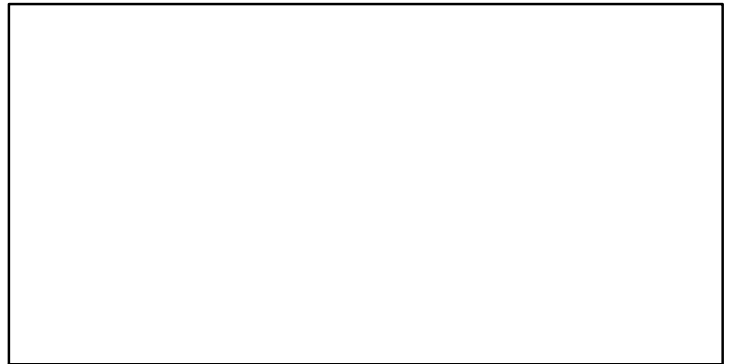
TC-MT, TL-MT, RecC\* (1978–2016–ICESIMP2016)



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]

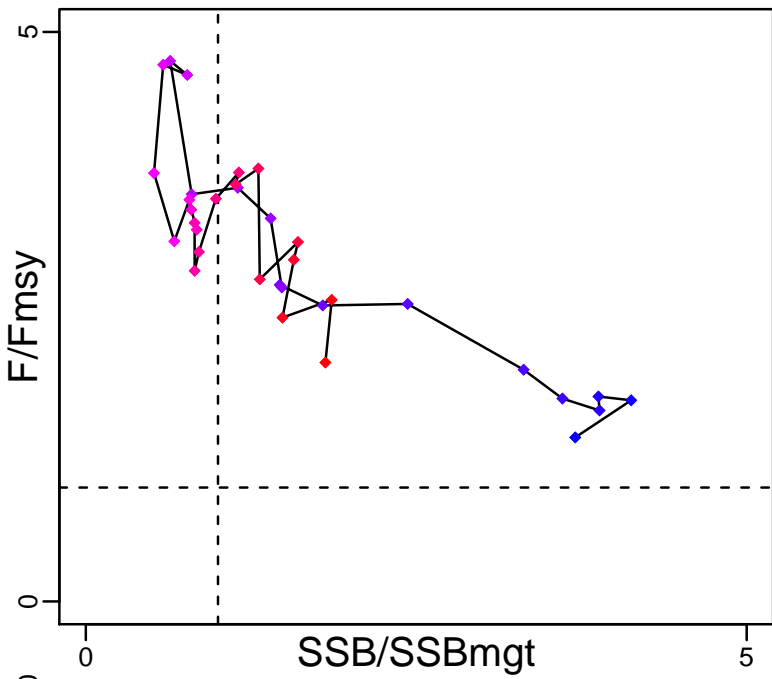
Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	WGBIE-HAKESOTH-1982-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.25
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	11,100
<b>Fmgt</b>	Fmgt-1/yr	2016	0.25
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	8000
<b>Flim</b>	Flim-1/yr	2016	1.05
<b>ERlim</b>	-	-	-

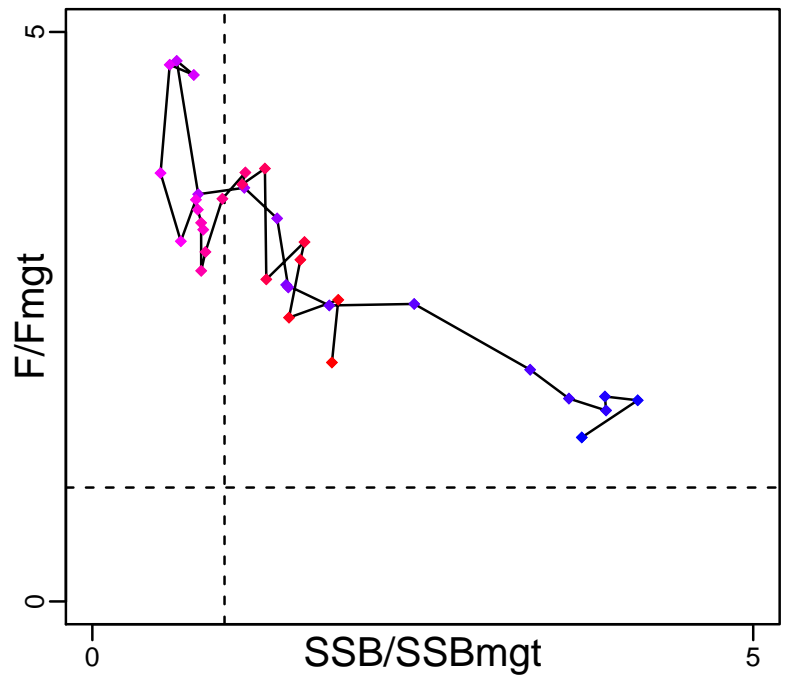
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	26,600	Both	-
<b>SSB</b>	SSB-MT	2016	23,100	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	79,300,000	-	0
<b>F</b>	F-1/yr	2016	0.524	-	1 to 3
<b>ER</b>	ER-calc-ratio	2016	0.52	-	-
<b>TC</b>	TC-MT	2016	13,800		
<b>TL</b>	TL-MT	2016	11,500		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	2.098		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	2.081		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	2.098		
<b>ER/ERmgt</b>	-	-	-		

# Hake Northeast Atlantic South [HAKESOTH]

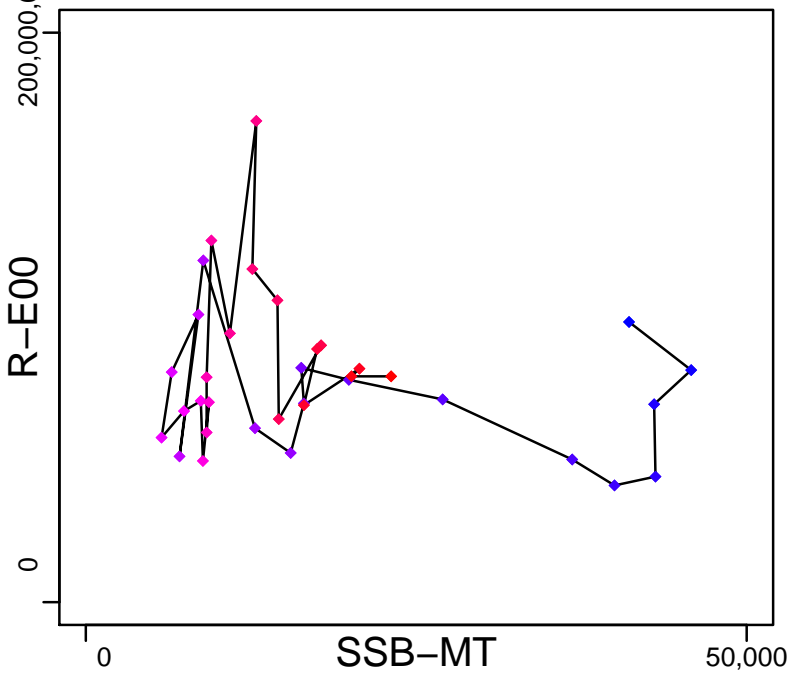
Kobe MSYpref (1982–2016–ICESIMP2016)



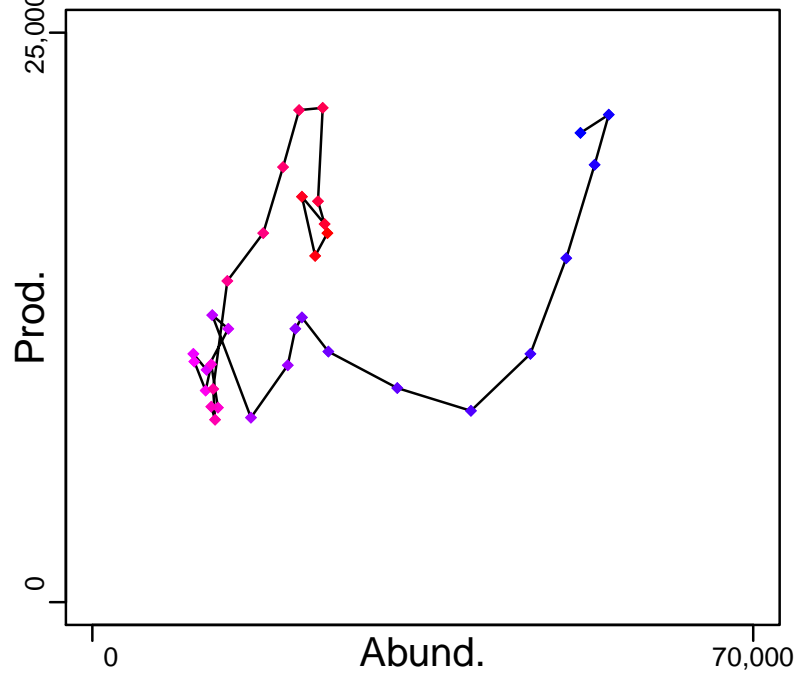
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



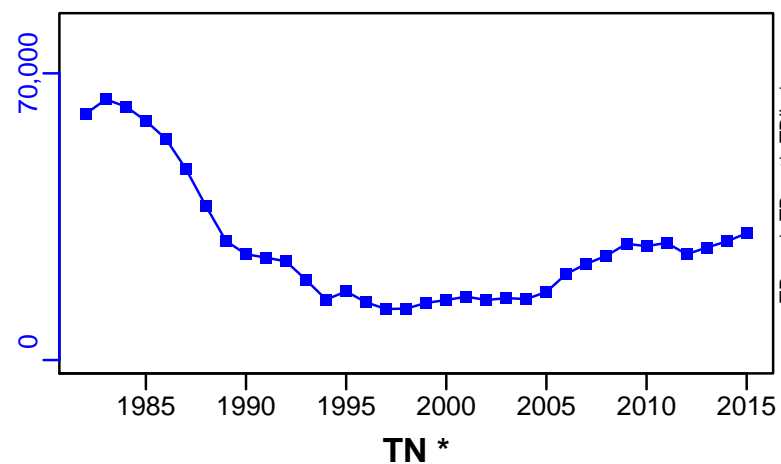
Production (1982–2016–ICESIMP2016)



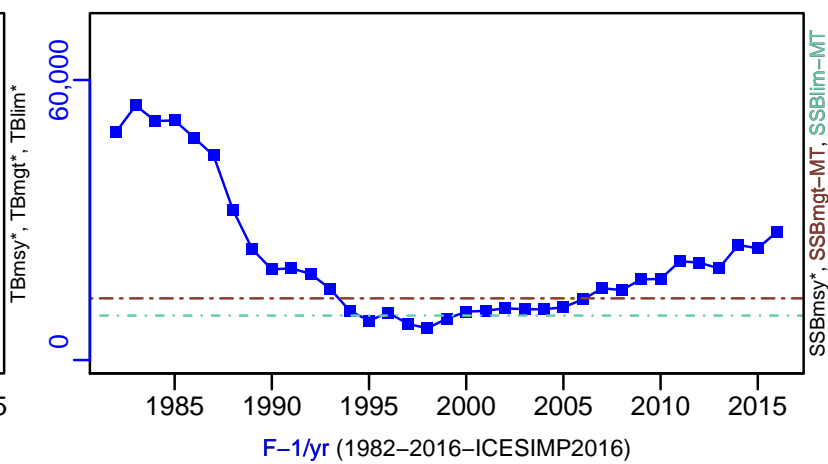
◆ Start Year ◆ End Year \* No Data

# Hake Northeast Atlantic South [HAKESOTH]

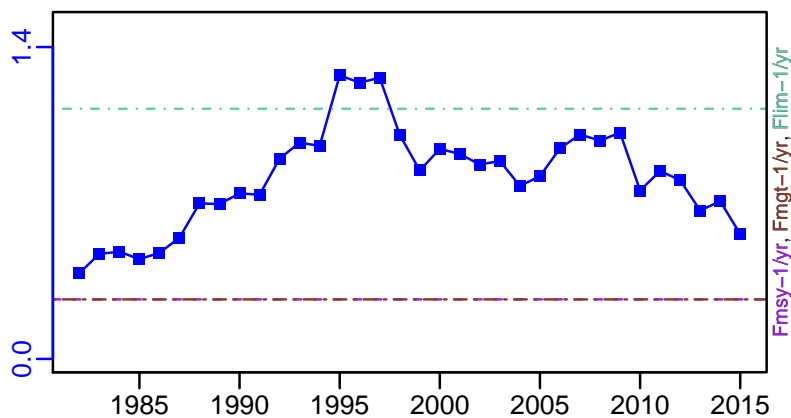
TB-MT (1982–2016–ICESIMP2016)



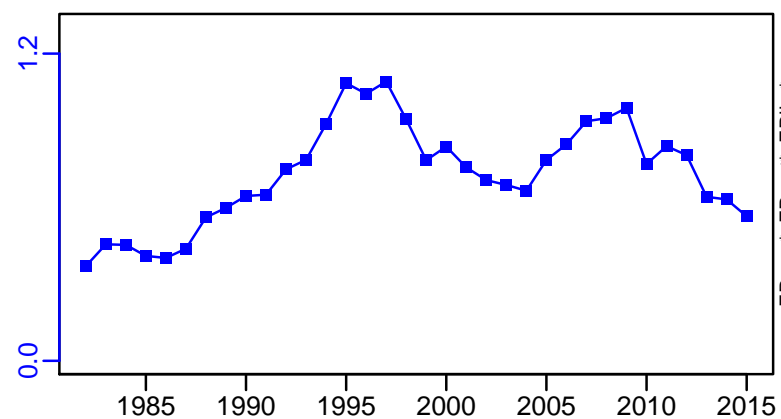
SSB-MT (1982–2016–ICESIMP2016)



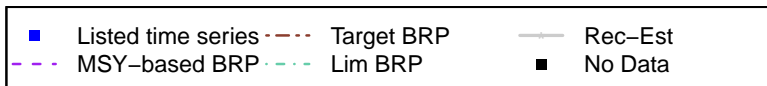
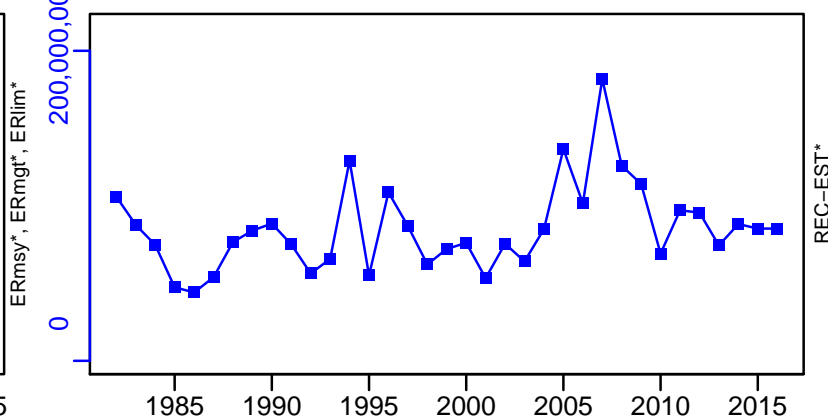
F-1/yr (1982–2016–ICESIMP2016)



ER-calc-ratio (1982–2016–ICESIMP2016)

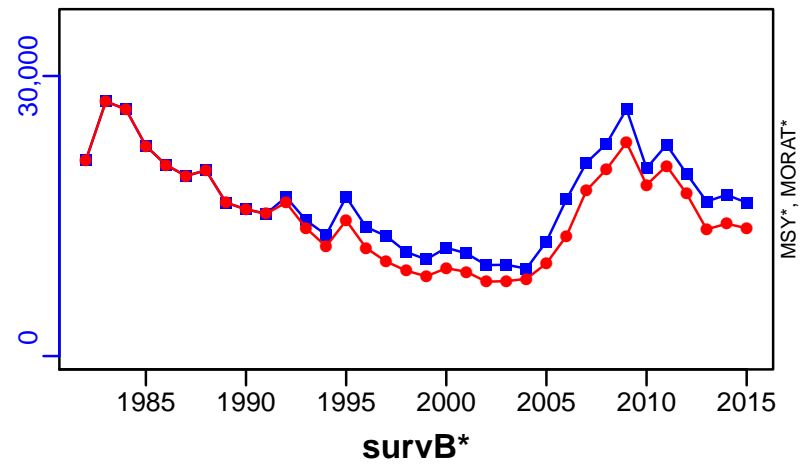


R-E00 (1982–2016–ICESIMP2016)



# Hake Northeast Atlantic South [HAKESOTH]

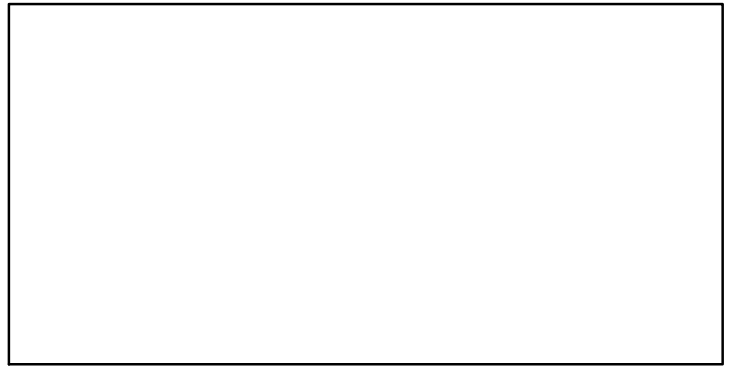
TC-MT, TL-MT, RecC\* (1982–2016–ICESIMP2016)



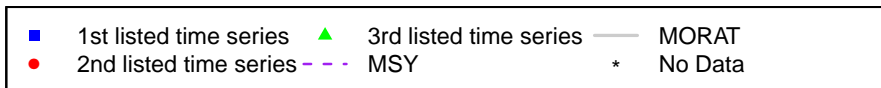
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Herring ICES 22-24-IIIa [HERR2224IIIa]

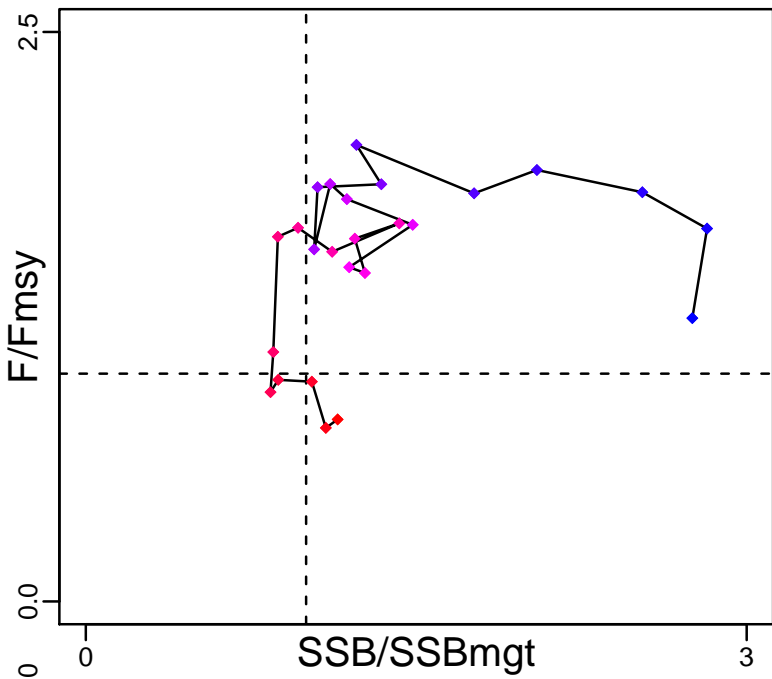
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERR2224IIIa-1991-2016-ICESIMP2016
<b>Area</b>	22-24-IIIa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts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

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

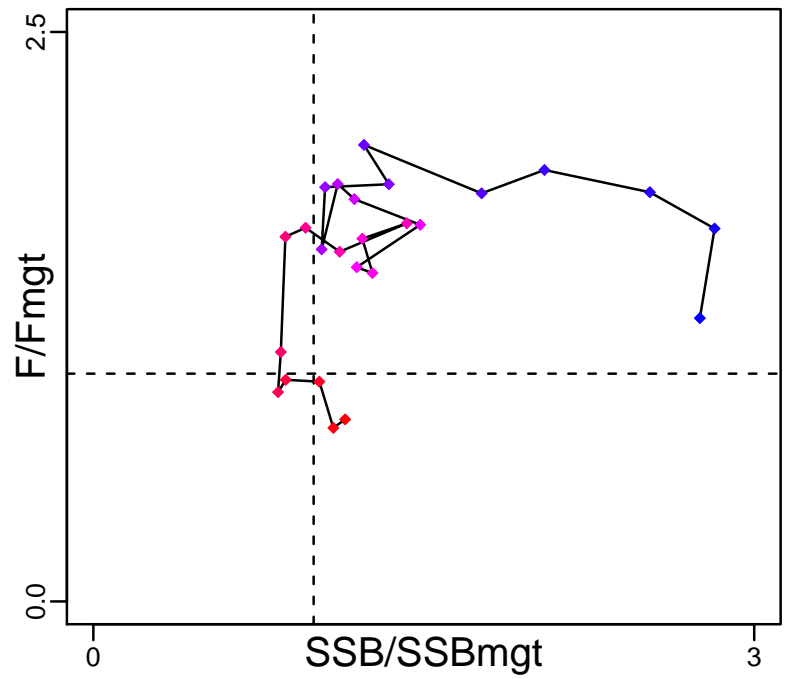
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	205,000	Both	-
<b>SSB</b>	SSB-MT	2016	143,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.86 \times 10^9$	-	0
<b>F</b>	F-1/yr	2016	0.256	-	3 to 6
<b>ER</b>	ER-calc-ratio	2016	0.183	-	-
<b>TC</b>	TC-MT	2016	37,500		
<b>TL</b>	TL-MT	2016	37,500		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2011	1.491		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.799		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.3		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.799		
<b>ER/ERmgt</b>	-	-	-		

# Herring ICES 22–24–IIIa [HERR2224IIIa]

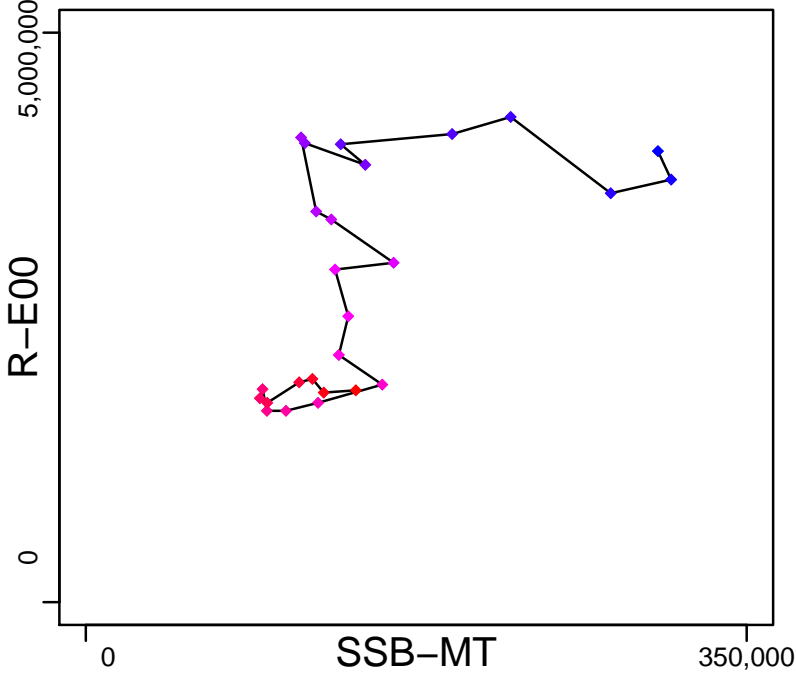
Kobe MSYpref (1991–2016–ICESIMP2016)



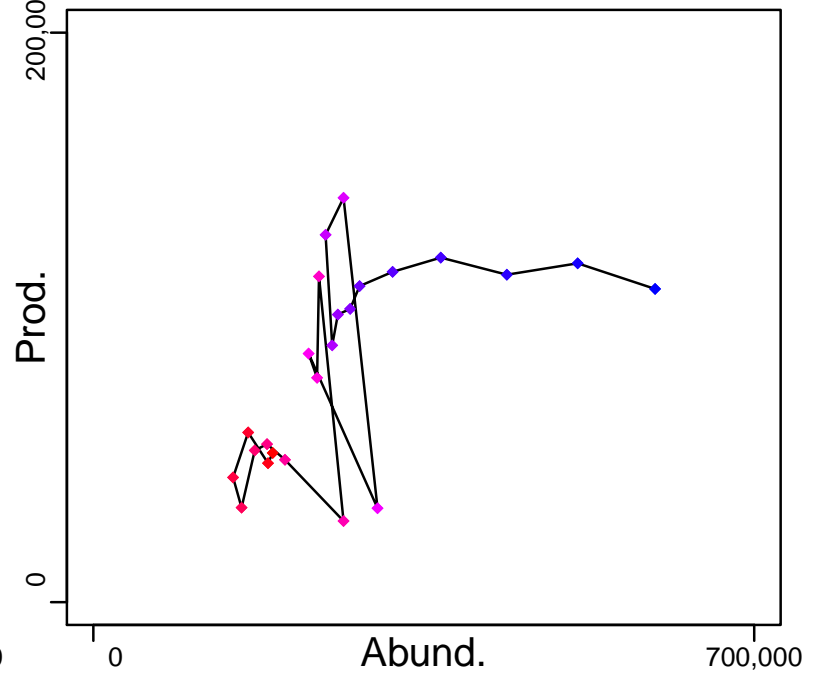
Kobe MGTpref (1991–2016–ICESIMP2016)



Spawner Recruit (1991–2016–ICESIMP2016)



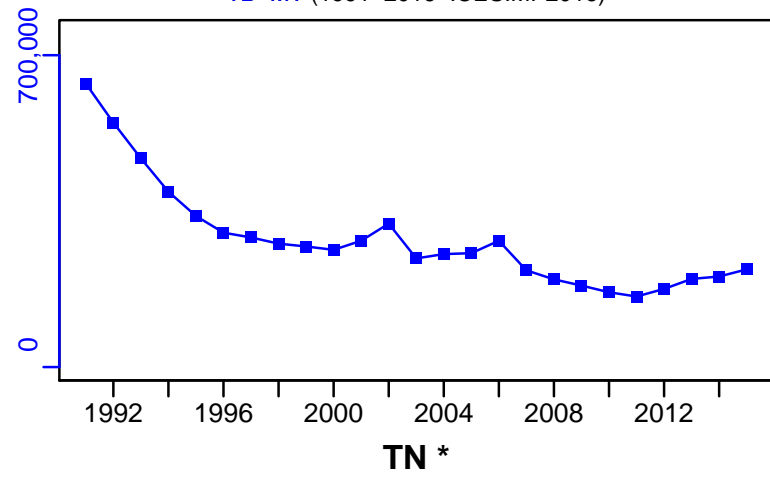
Production (1991–2016–ICESIMP2016)



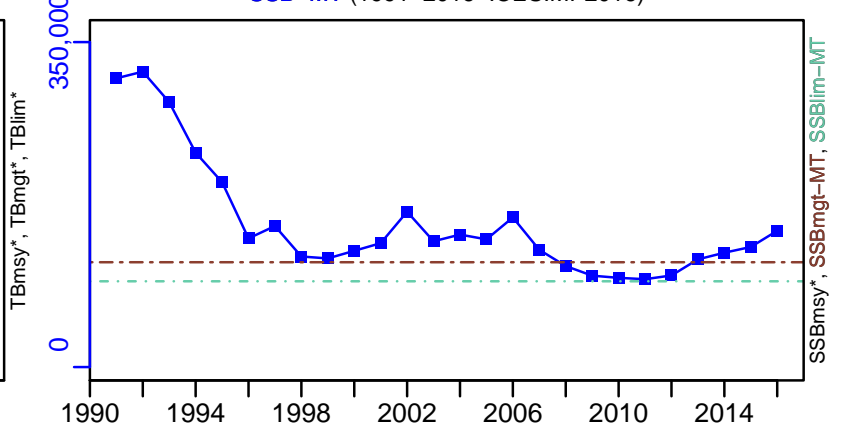
◆ Start Year ◆ End Year \* No Data

# Herring ICES 22–24–IIIa [HERR2224IIIa]

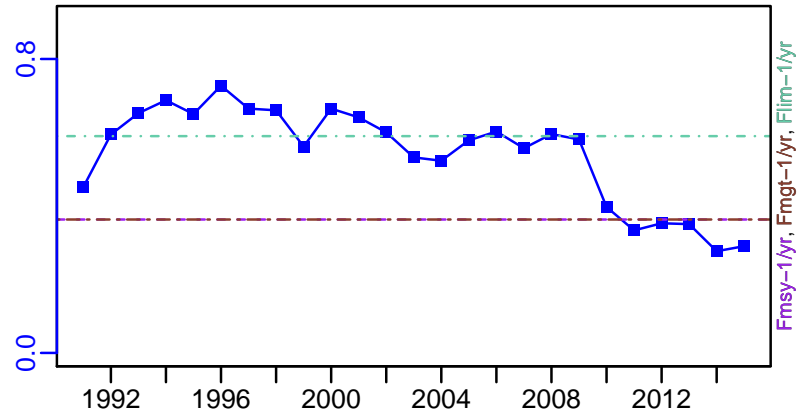
TB–MT (1991–2016–ICESIMP2016)



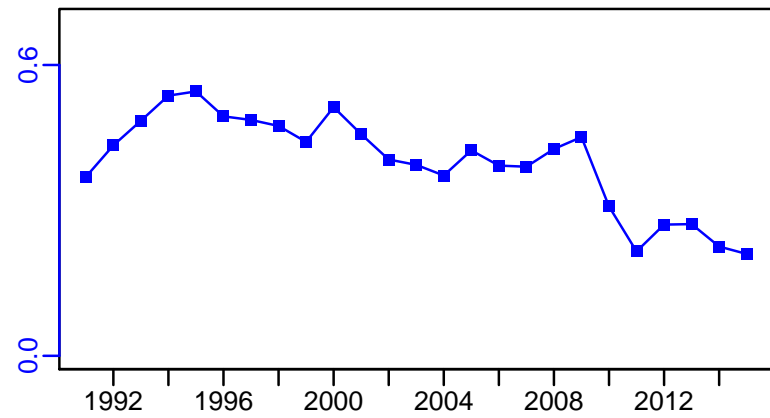
SSB–MT (1991–2016–ICESIMP2016)



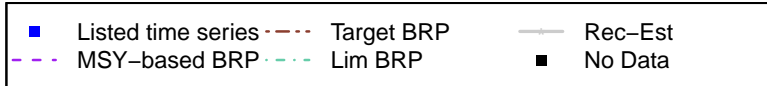
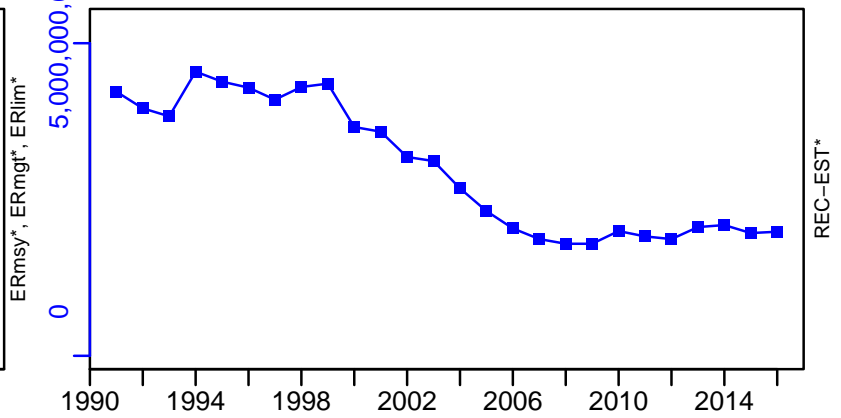
F–1/yr (1991–2016–ICESIMP2016)



ER–calc–ratio (1991–2016–ICESIMP2016)



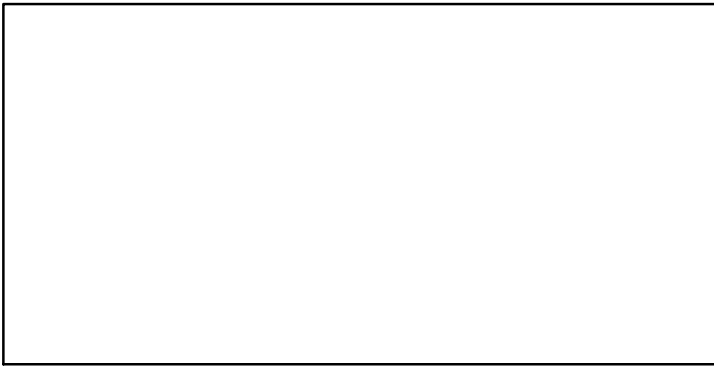
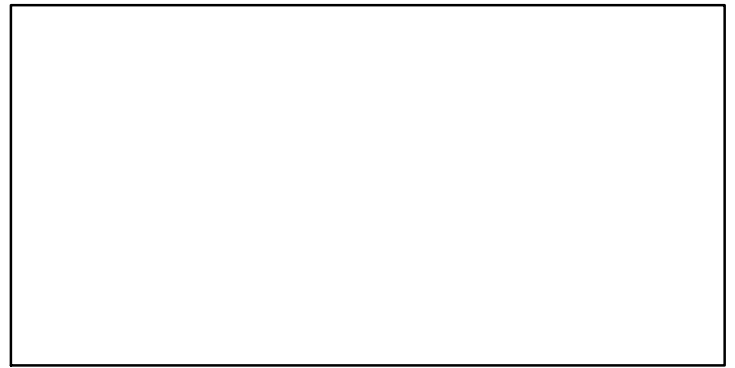
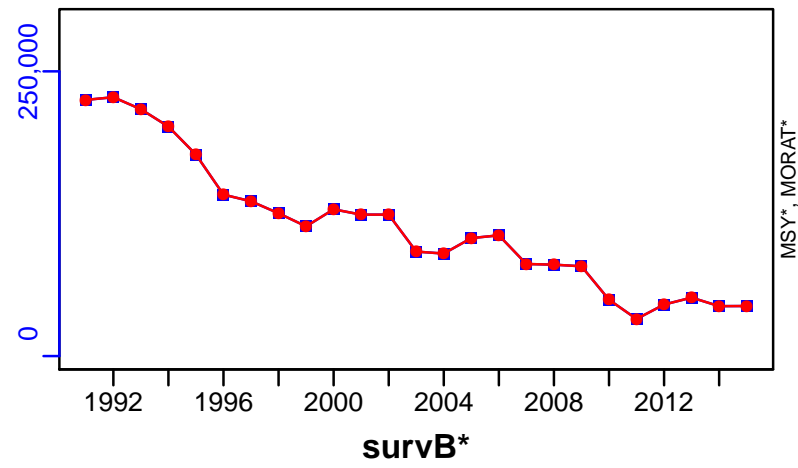
R–E00 (1991–2016–ICESIMP2016)



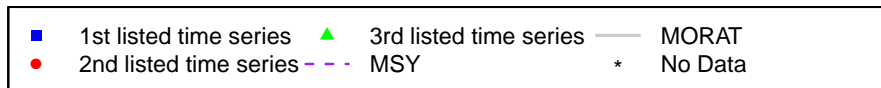
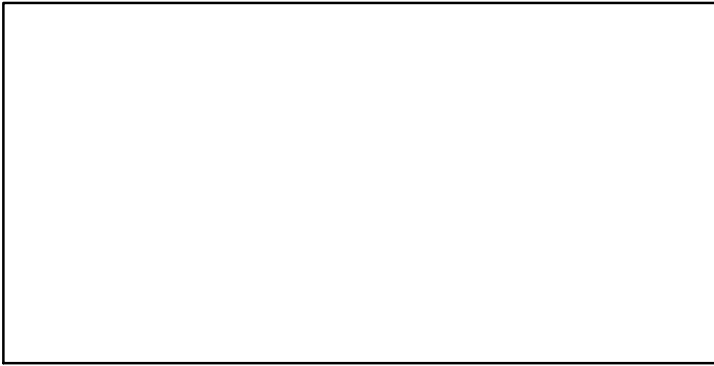
# Herring ICES 22-24-IIIa [HERR2224IIIa]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





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

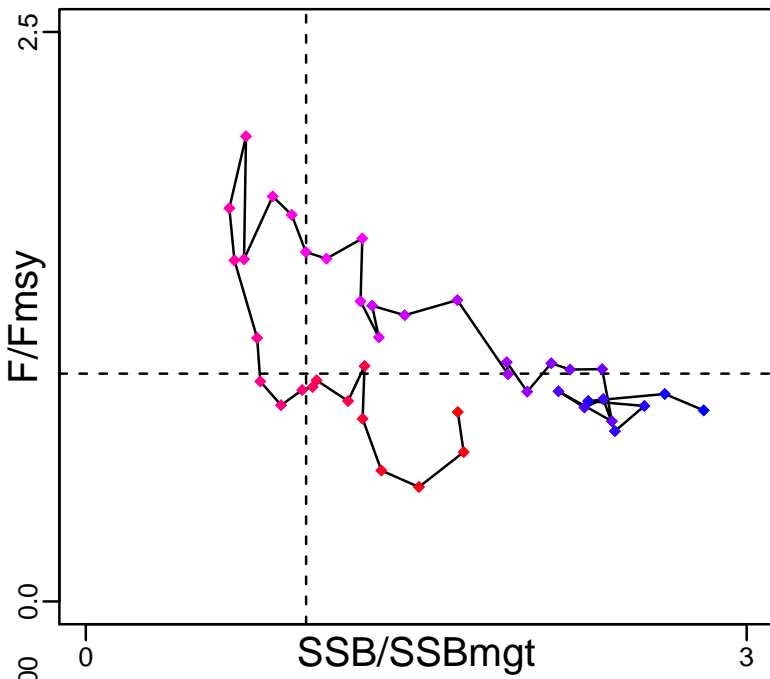
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	WGBFAS-HERR2529-32-1973-2016-ICESIMP2016
<b>Area</b>	Subdivisions 25-29 and 32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.22
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	$6 \times 10^5$
<b>Fmgt</b>	Fmgt-1/yr	2016	0.22
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	430,000
<b>Flim</b>	Flim-1/yr	2016	0.52
<b>ERlim</b>	-	-	-

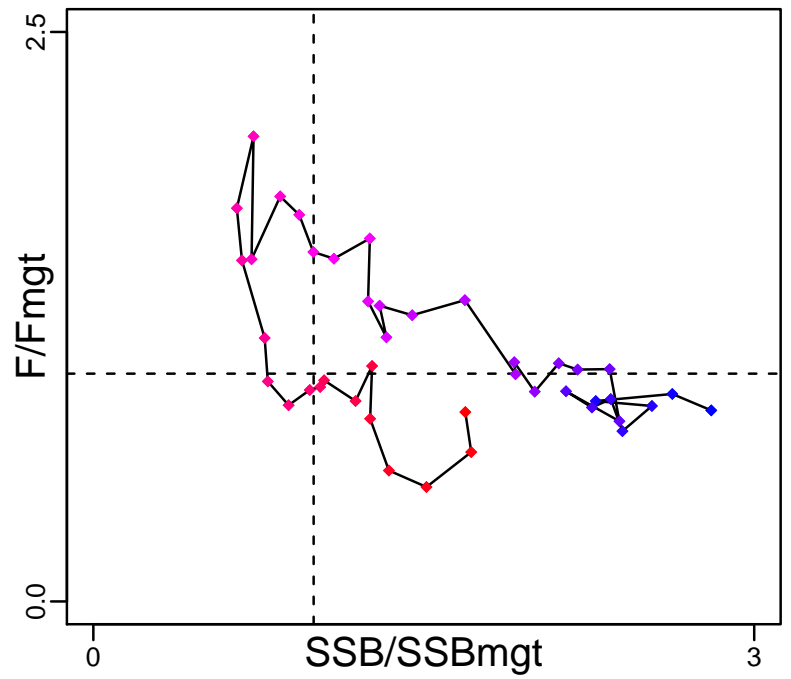
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1,460,000	Both	-
<b>SSB</b>	SSB-MT	2016	1,060,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.82 \times 10^{10}$	-	1
<b>F</b>	F-1/yr	2016	0.183	-	3 to 6
<b>ER</b>	ER-calc-ratio	2016	0.12	-	-
<b>TC</b>	TC-MT	2016	174,000		
<b>TL</b>	TL-MT	2016	174,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.831		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.761		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.831		
<b>ER/ERmgt</b>	-	-	-		

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

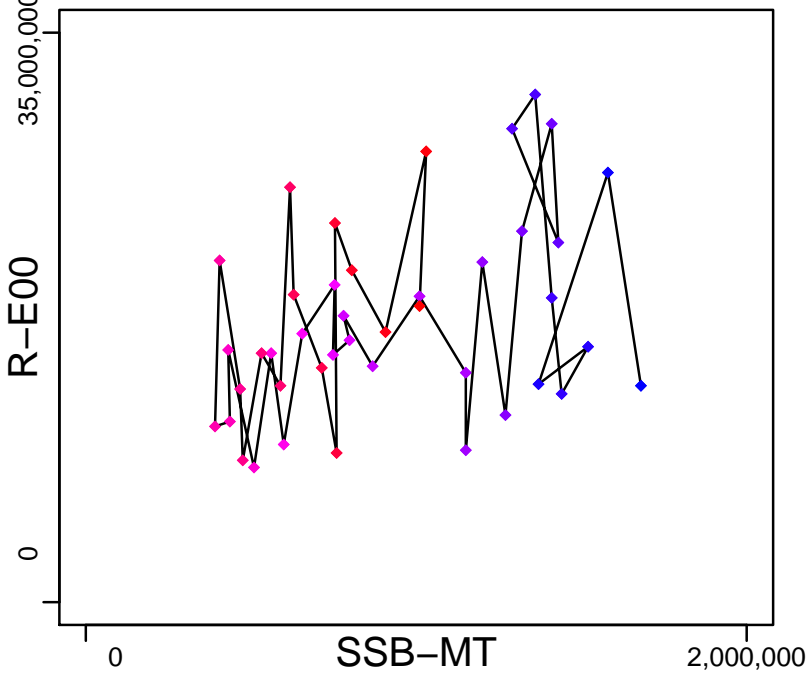
Kobe MSYpref (1973–2016–ICESIMP2016)



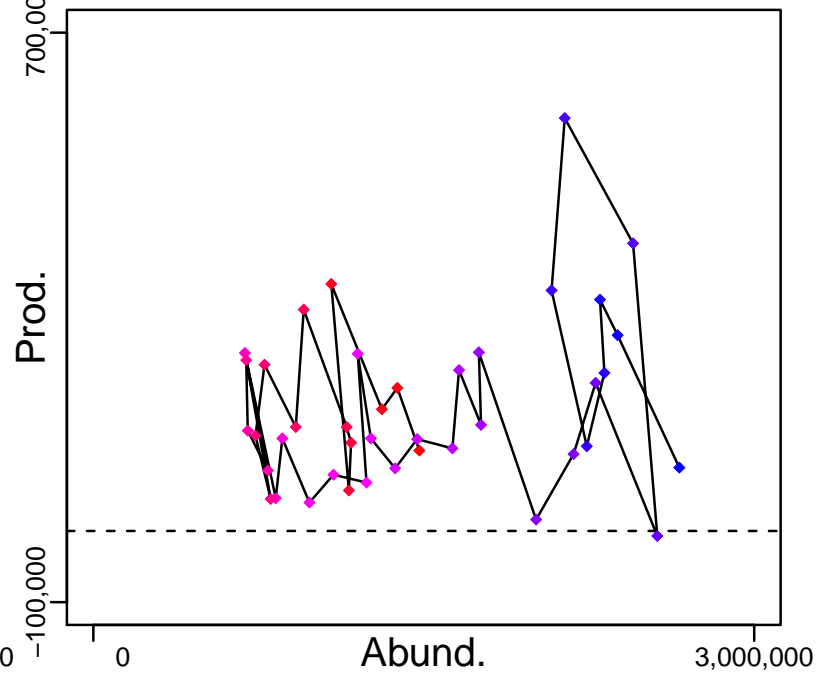
Kobe MGTpref (1973–2016–ICESIMP2016)



Spawner Recruit (1973–2016–ICESIMP2016)

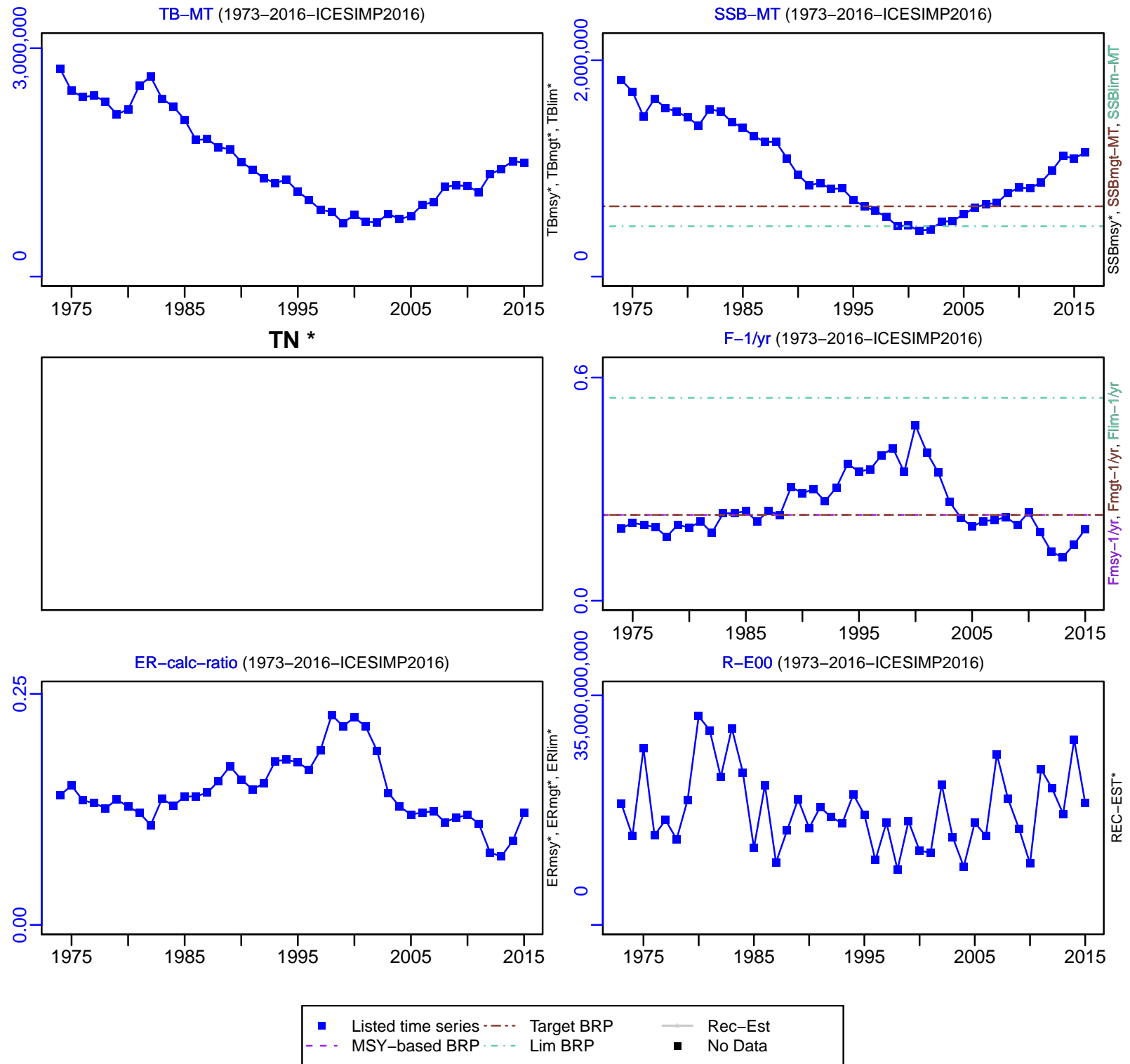


Production (1973–2016–ICESIMP2016)



◆ Start Year ◆ End Year \* No Data

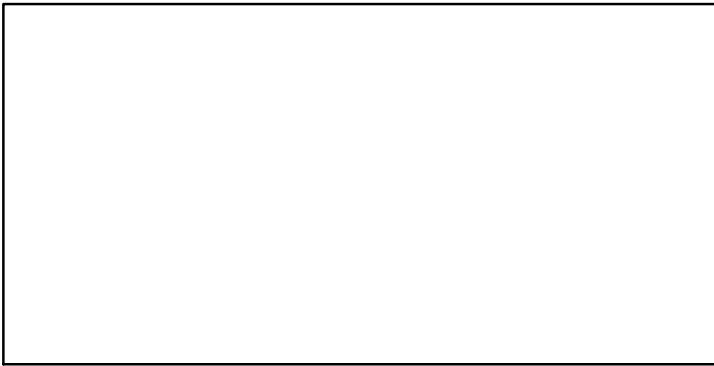
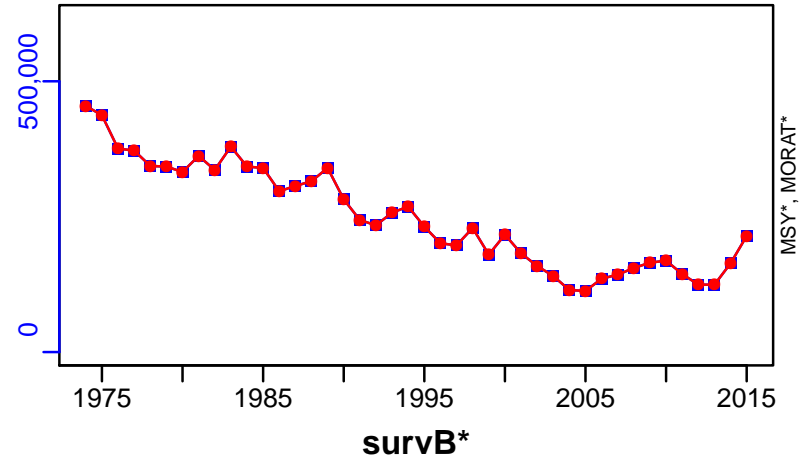
# Herring Subdivisions 25–29 and 32 [HERR2529–32]



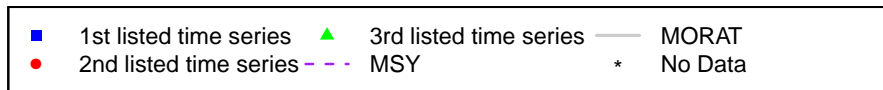
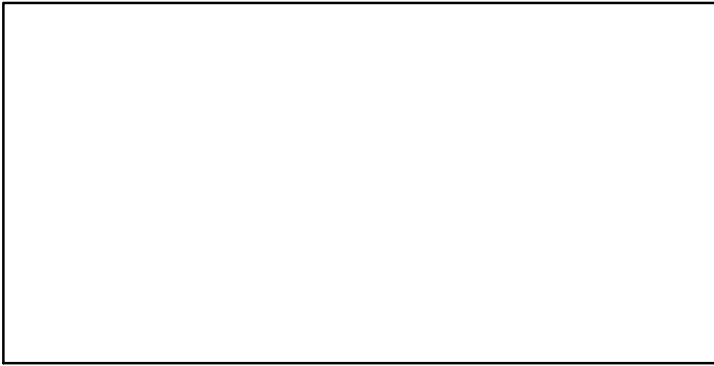
# Herring Subdivisions 25–29 and 32 [HERR2529–32]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Herring ICES 30 [HERR30]

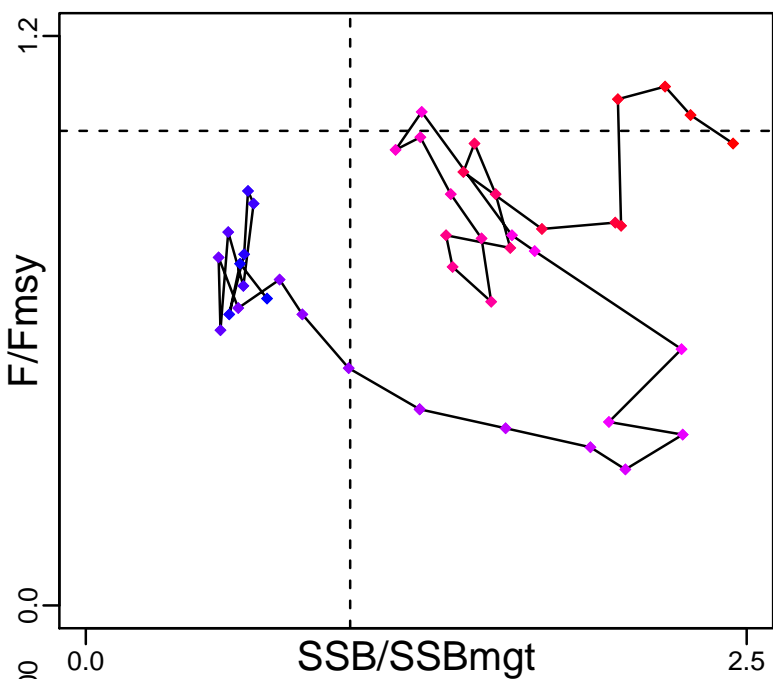
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	WGBFAS-HERR30-1972-2016-ICESIMP2016
<b>Area</b>	Bothnian Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2011, 2013,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2011	$2 \times 10^5$
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.15
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	316,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.15
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.2
<b>TBlim</b>	TBlim-MT	2011	290,000
<b>SSBlim</b>	-	-	-
<b>Flim</b>	Flim-1/yr	2011	0.3
<b>ERlim</b>	-	-	-

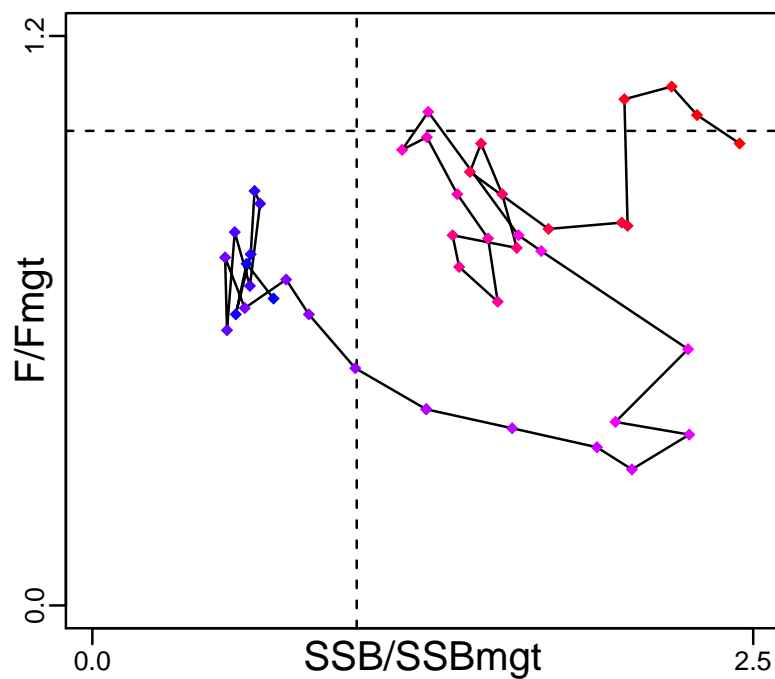
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1,110,000	Both	-
<b>SSB</b>	SSB-MT	2016	952,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$8.03 \times 10^9$	-	1
<b>F</b>	F-1/yr	2016	0.146	-	3 to 7
<b>ER</b>	ER-calc-ratio	2016	0.1	-	-
<b>TC</b>	TC-MT	2015	111,000		
<b>TL</b>	TL-MT	2016	110,000		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2011	3.78		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.973		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	3.011		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.973		
<b>ER/ERmgt</b>	-	-	-		

# Herring ICES 30 [HERR30]

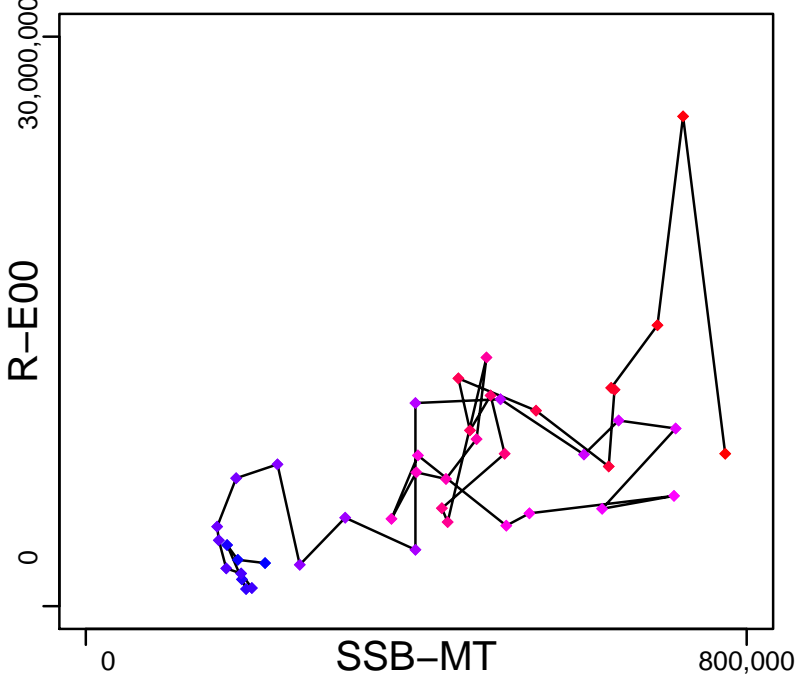
Kobe MSYpref (1972–2016–ICESIMP2016)



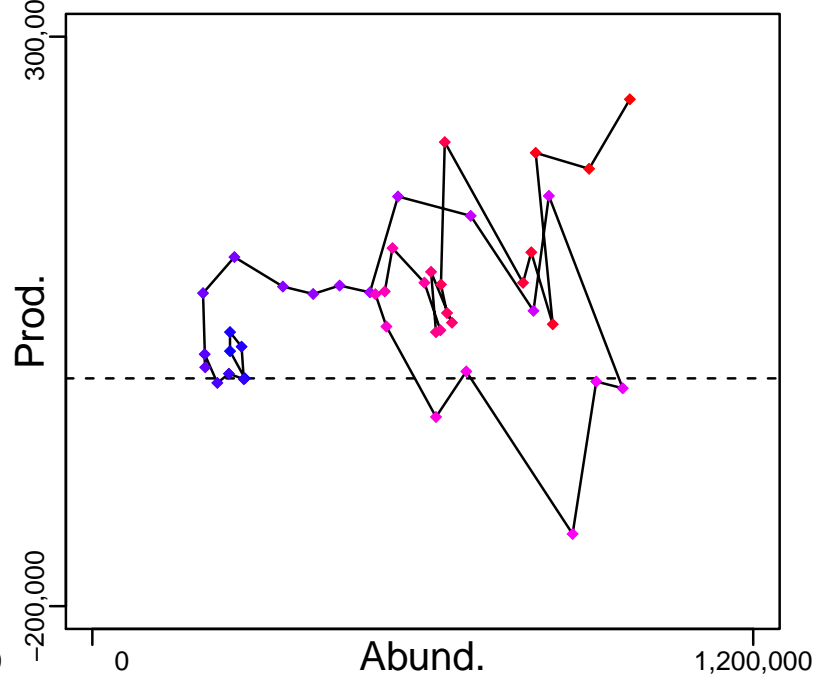
Kobe MGTpref (1972–2016–ICESIMP2016)



Spawner Recruit (1972–2016–ICESIMP2016)

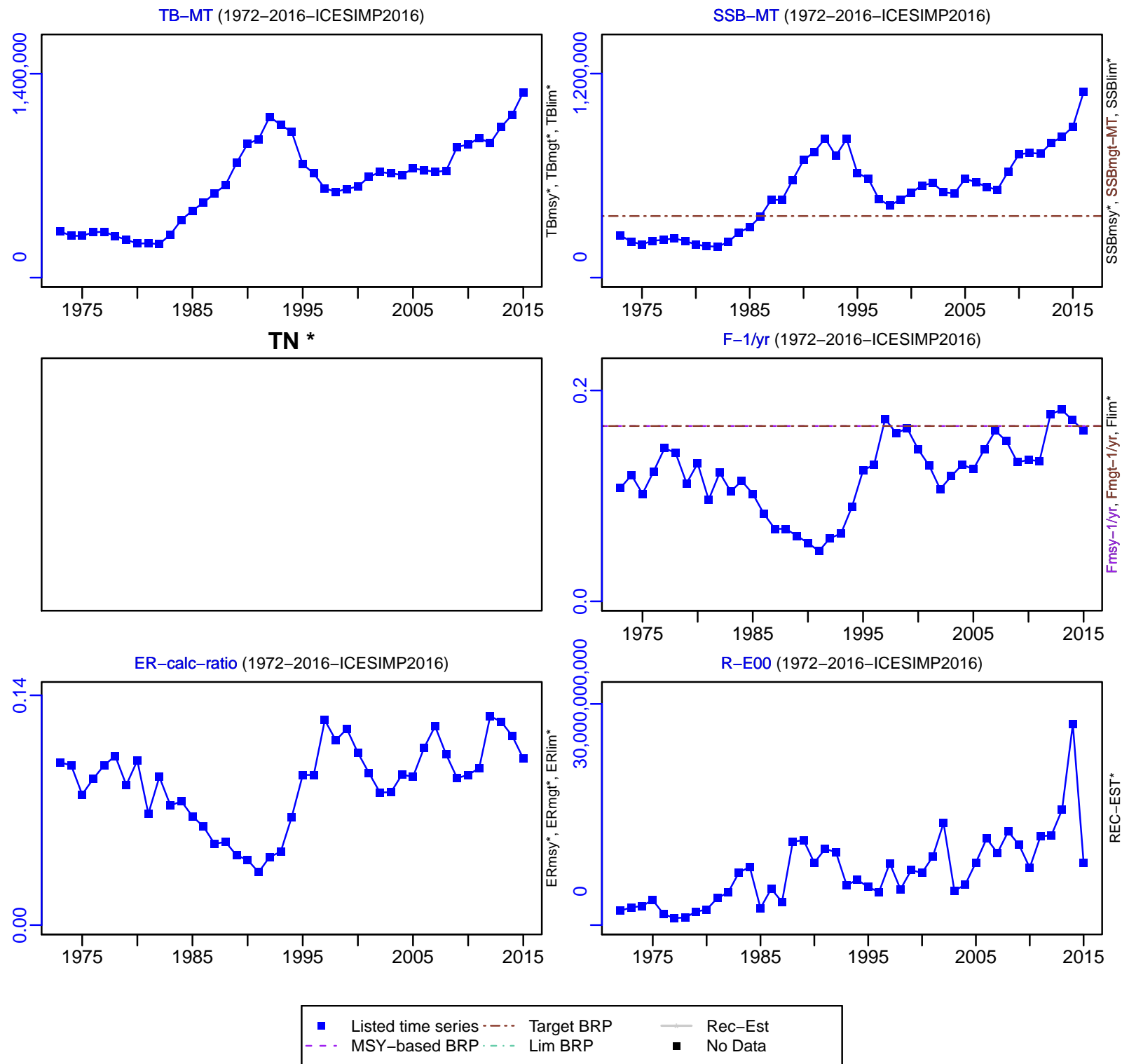


Production (1972–2016–ICESIMP2016)



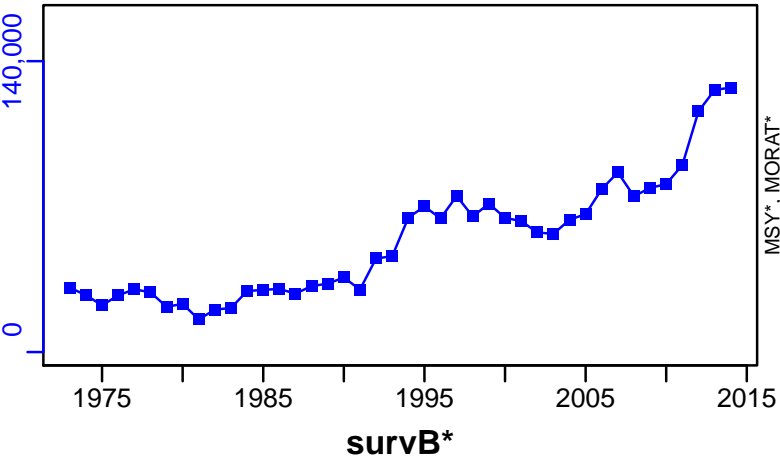
◆ Start Year ◆ End Year \* No Data

# Herring ICES 30 [HERR30]



Herring ICES 30 [HERR30]

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



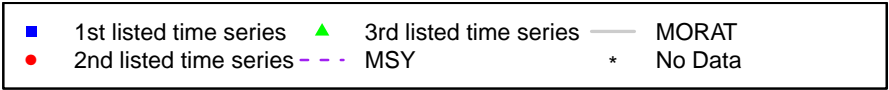
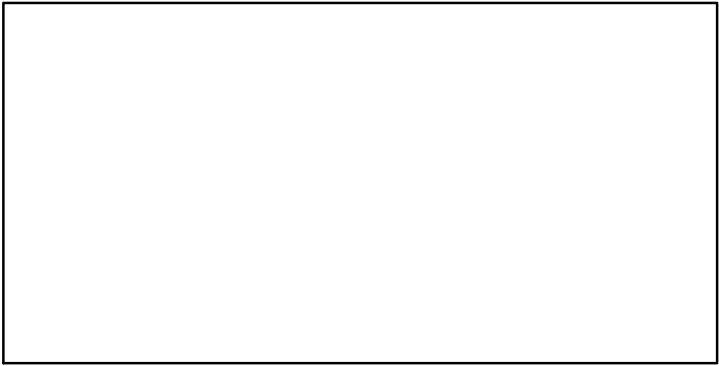
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



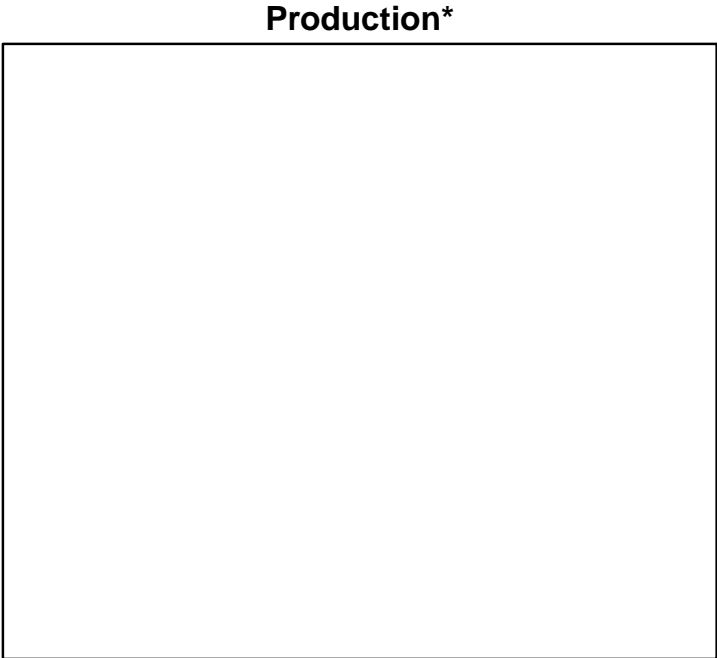
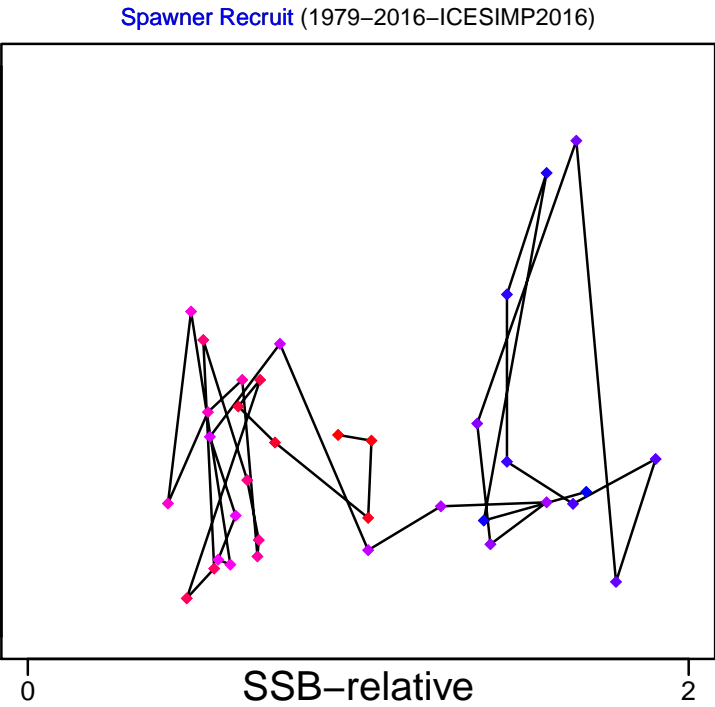
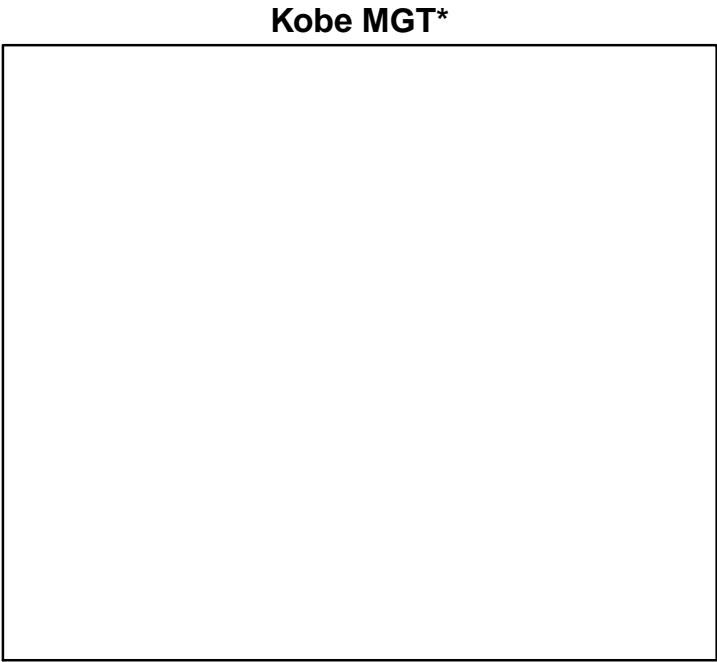
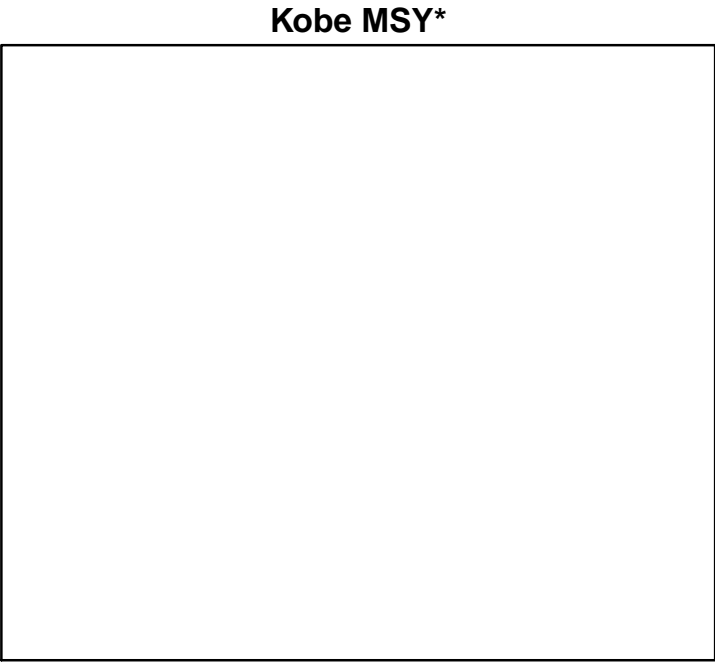


## Herring ICES 31 [HERR31]

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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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	0.892	Both	-
TN	-	-	-	-	-
R	R-relative	2016	1.06	-	1
F	F-relative	2016	0.782	-	3 to 7
ER	ER-ratio	2010	0.113	-	-
TC	TC-MT	2016	4530		
TL	TL-MT	2016	4530		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

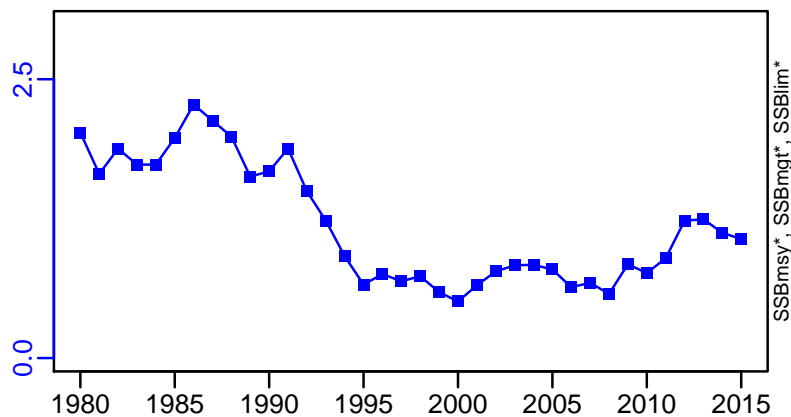


# Herring ICES 31 [HERR31]

TB\*



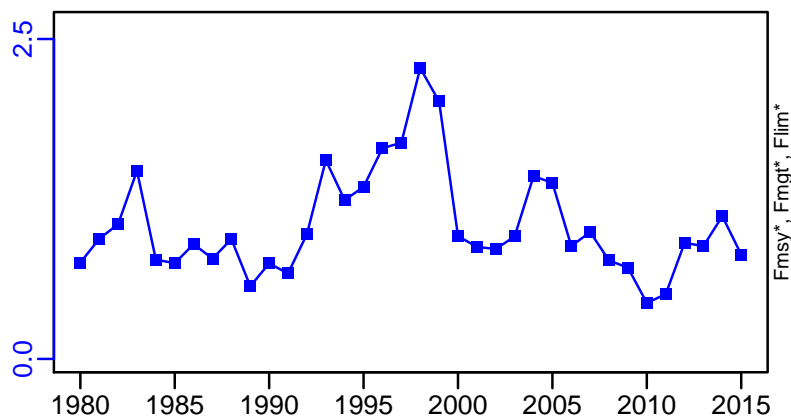
SSB-relative (1979–2016–ICESIMP2016)



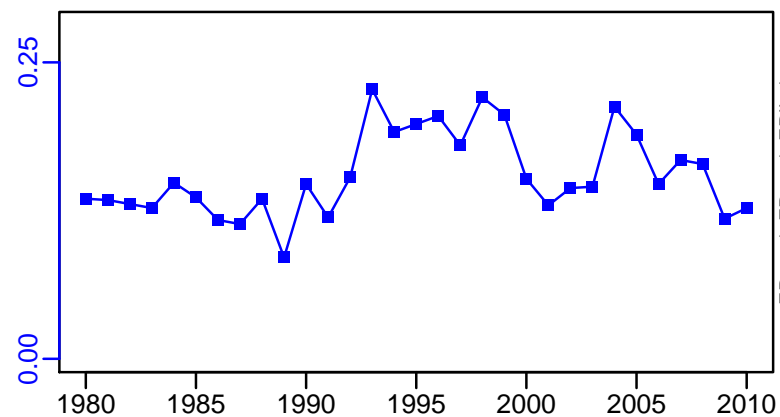
TN \*



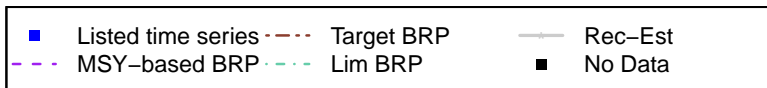
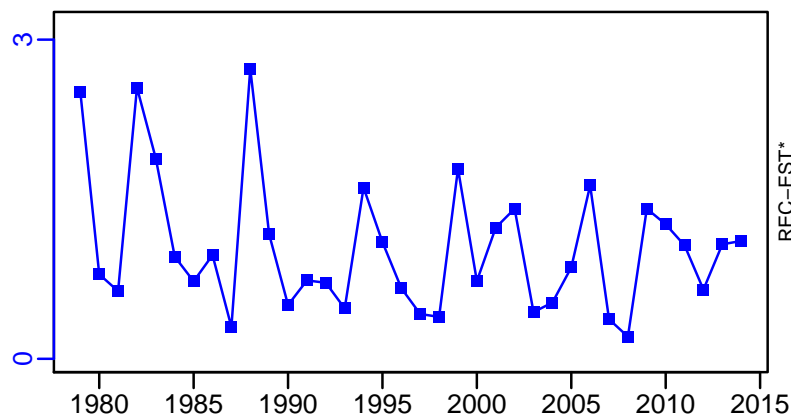
F-relative (1979–2016–ICESIMP2016)



ER-ratio (1979–2010–NEUBAUER)

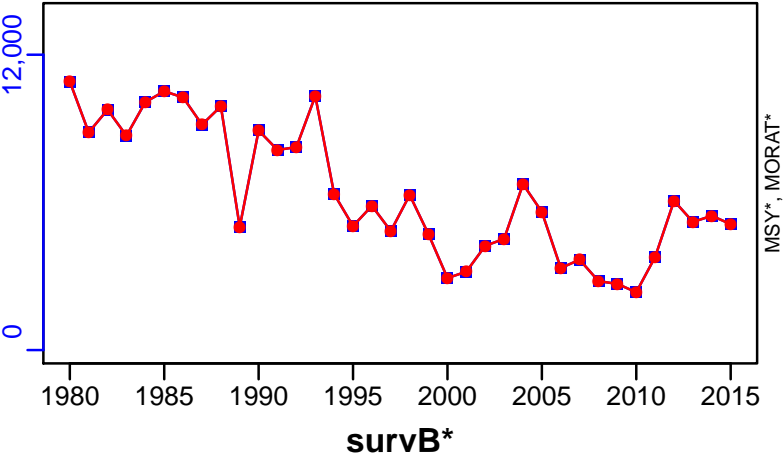


R-relative (1979–2016–ICESIMP2016)

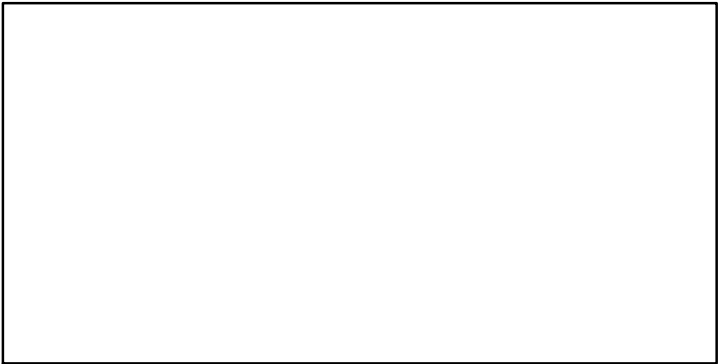


Herring ICES 31 [HERR31]

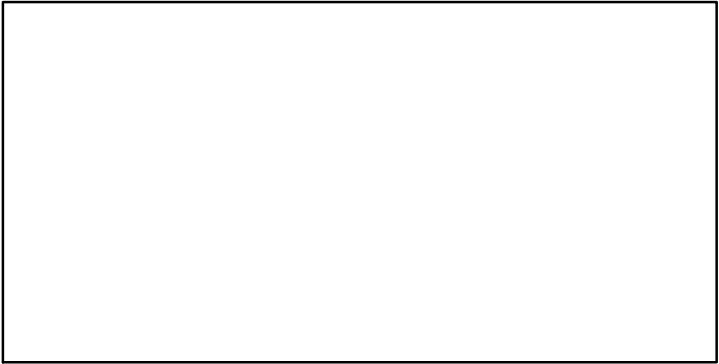
TC-MT, TL-MT, RecC\* (1979-2016-ICESIMP2016)



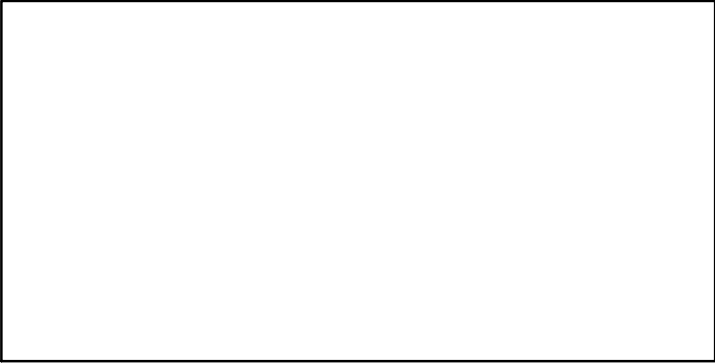
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Herring Northern Irish Sea [HERRNIRS]

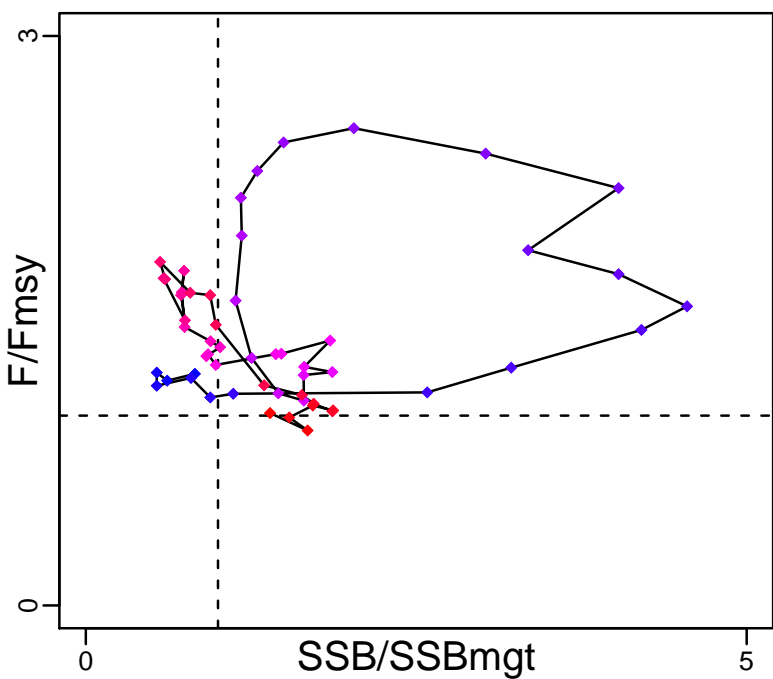
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERRNIRS-1960-2016-ICESIMP2016
<b>Area</b>	Irish Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.26
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	9500
<b>Fmgt</b>	Fmgt-1/yr	2016	0.26
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2010	6000
<b>SSBlim</b>	SSBlim-MT	2016	6000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

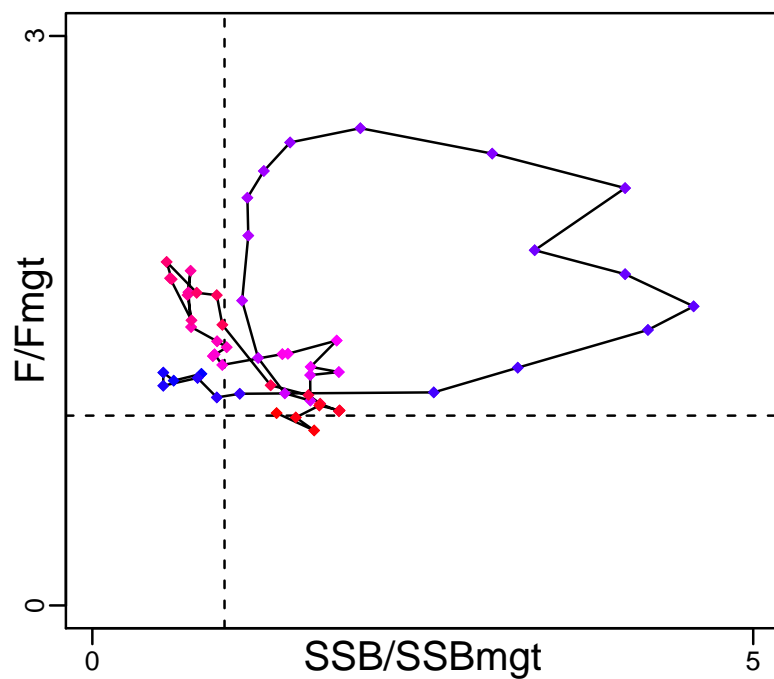
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	33,300	Both	-
<b>SSB</b>	SSB-MT	2016	13,200	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.53 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.263	-	4 to 6
<b>ER</b>	ER-calc-ratio	2016	0.146	-	-
<b>TC</b>	TC-MT	2016	4870		
<b>TL</b>	TL-MT	2016	4870		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.013		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.393		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.013		
<b>ER/ERmgt</b>	-	-	-		

# Herring Northern Irish Sea [HERRNIRS]

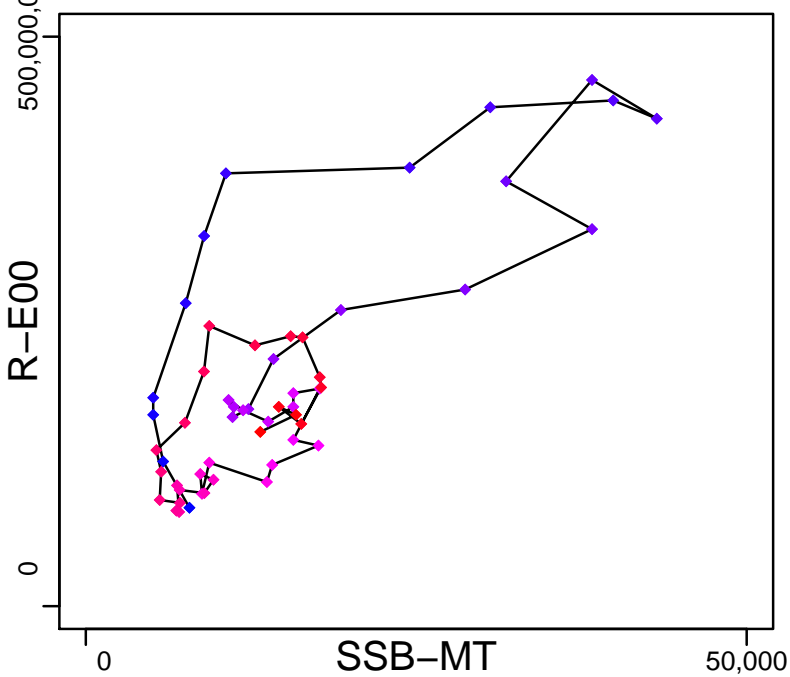
Kobe MSYpref (1960–2016–ICESIMP2016)



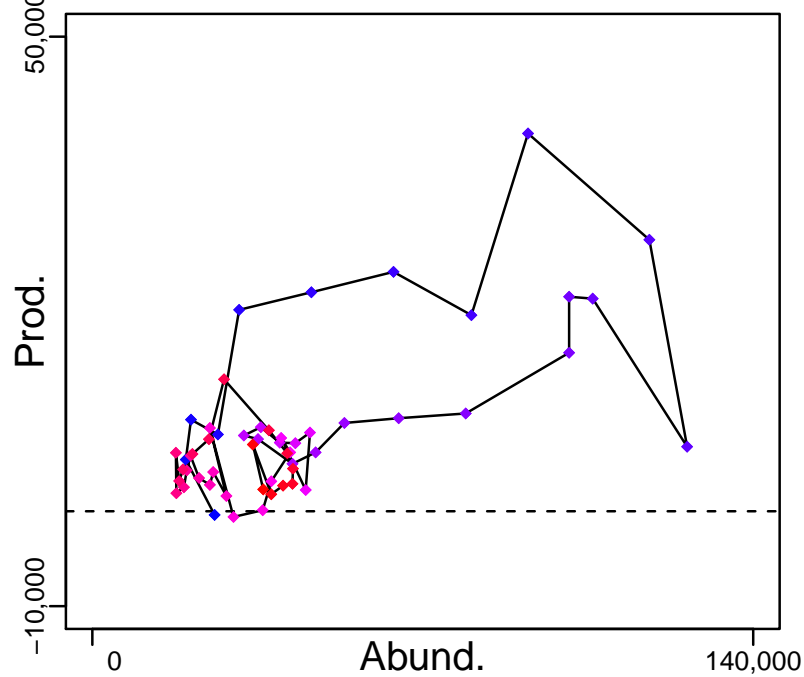
Kobe MGTpref (1960–2016–ICESIMP2016)



Spawner Recruit (1960–2016–ICESIMP2016)



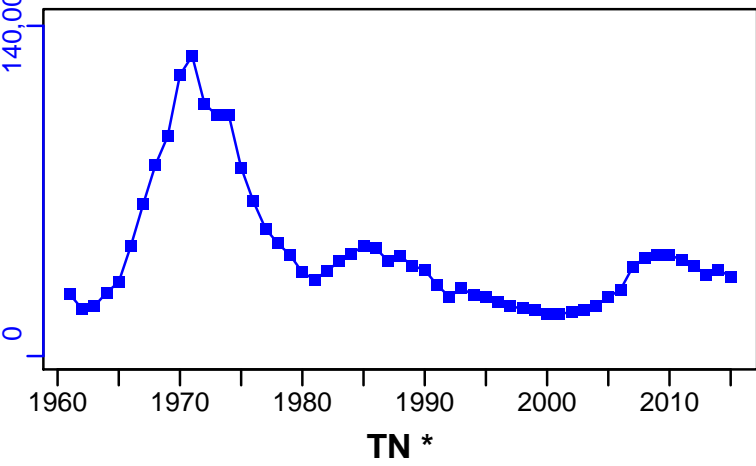
Production (1960–2016–ICESIMP2016)



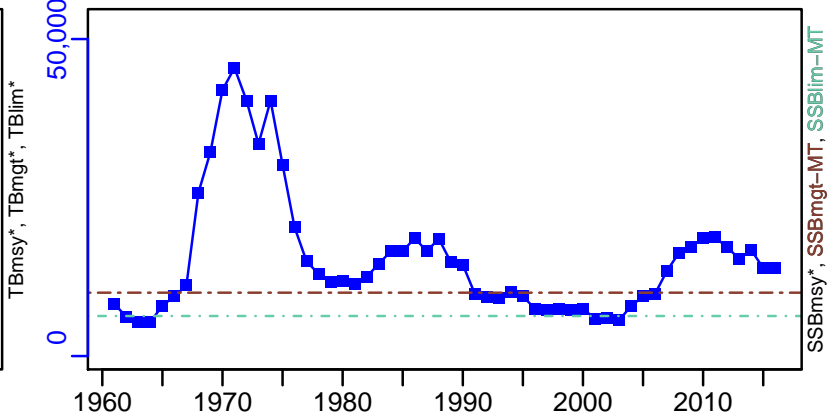
◆ Start Year ◆ End Year \* No Data

# Herring Northern Irish Sea [HERRNIRS]

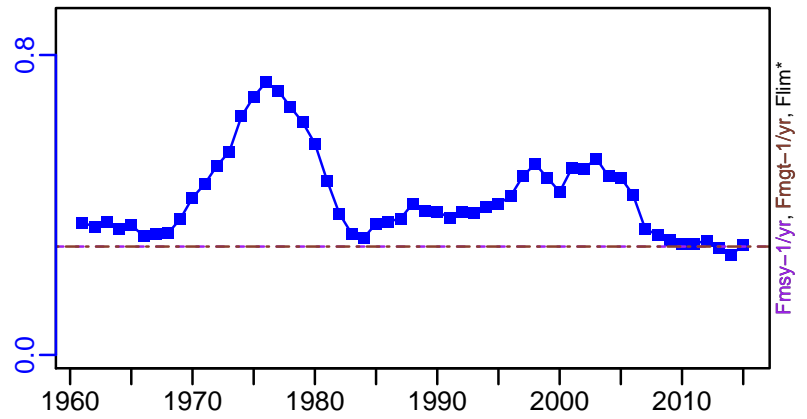
TB-MT (1960–2016–ICESIMP2016)



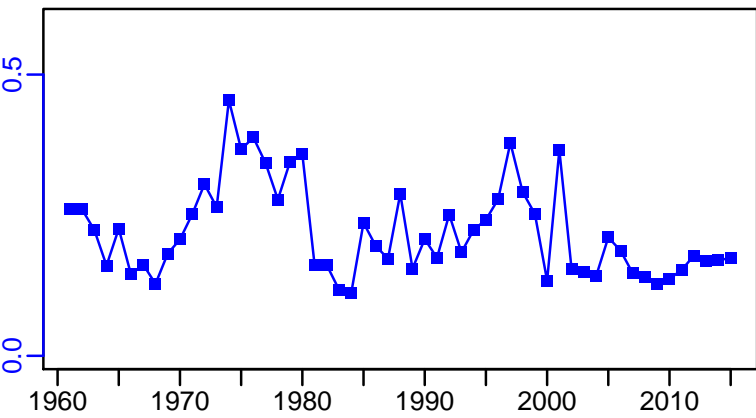
SSB-MT (1960–2016–ICESIMP2016)



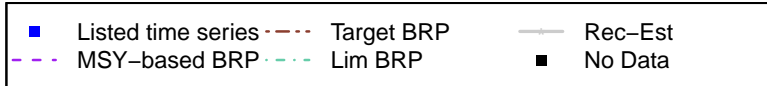
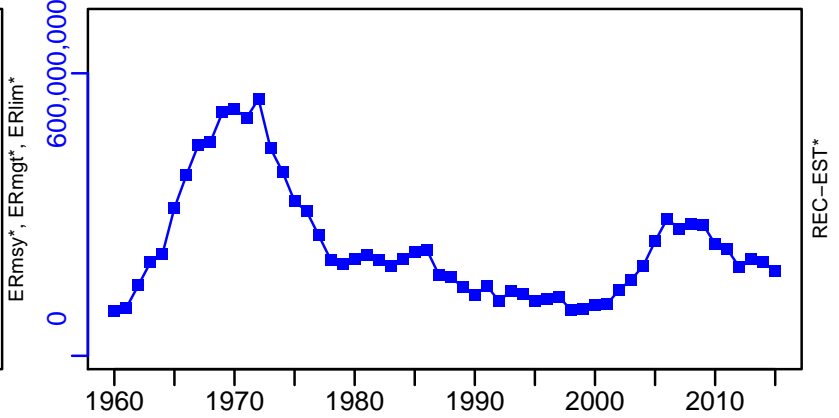
F-1/yr (1960–2016–ICESIMP2016)



ER-calc-ratio (1960–2016–ICESIMP2016)



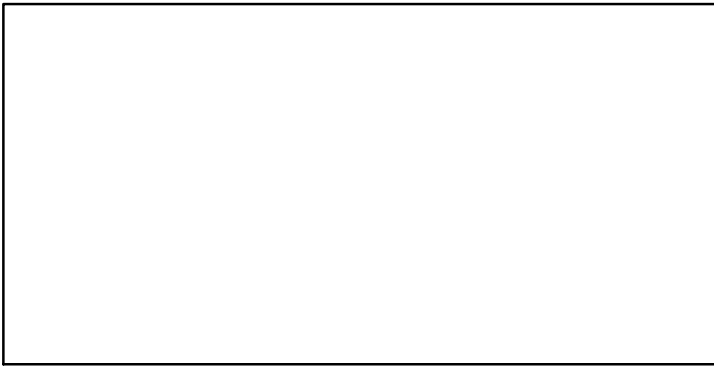
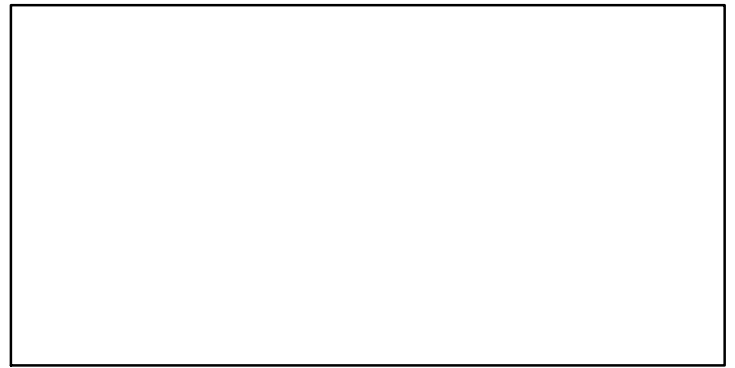
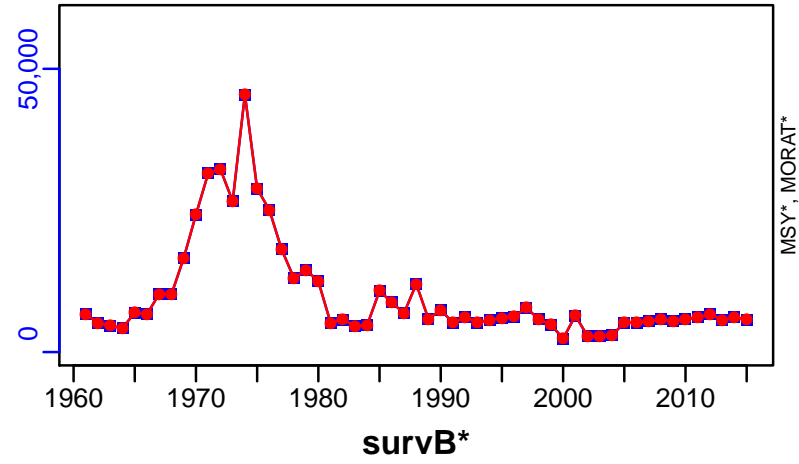
R-E00 (1960–2016–ICESIMP2016)



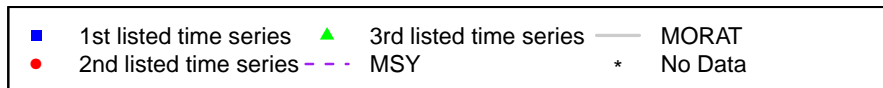
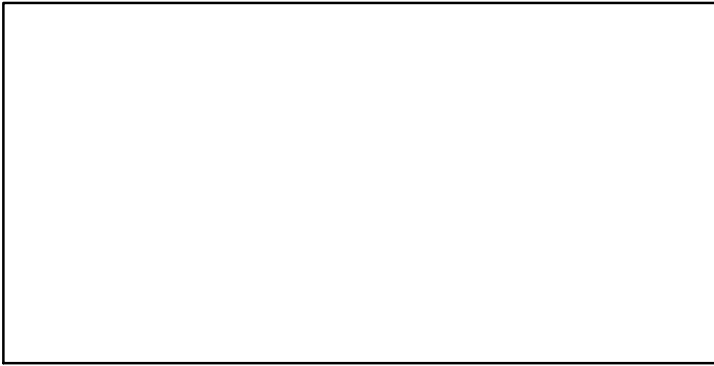
# Herring Northern Irish Sea [HERRNIRS]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





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

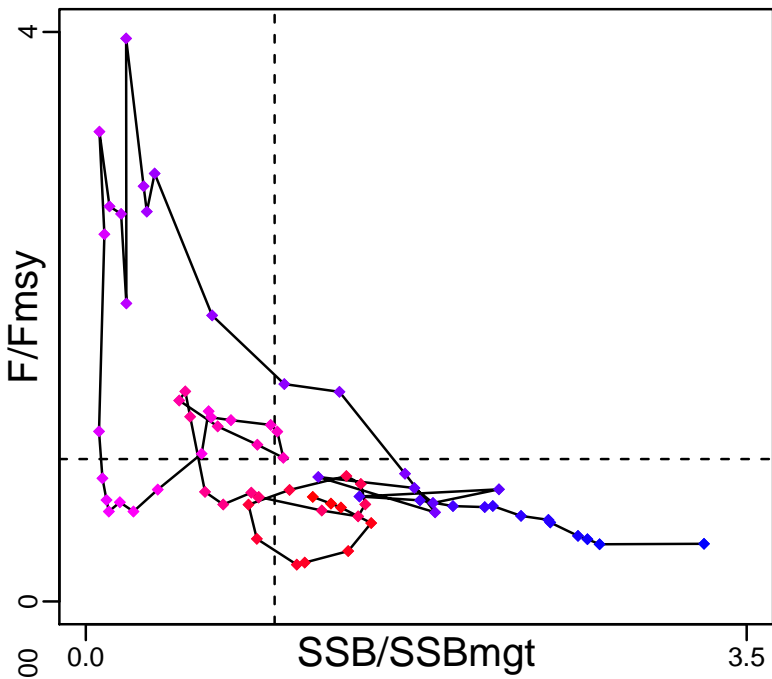
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERRNS-IIIa-VIId-1947-2016-ICESIMP2016
<b>Area</b>	IIIa, VIId and North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.33
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	1,500,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.33
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2011	$8 \times 10^5$
<b>SSBlim</b>	SSBlim-MT	2016	$8 \times 10^5$
<b>Flim</b>	Flim-1/yr	2016	0.39
<b>ERlim</b>	-	-	-

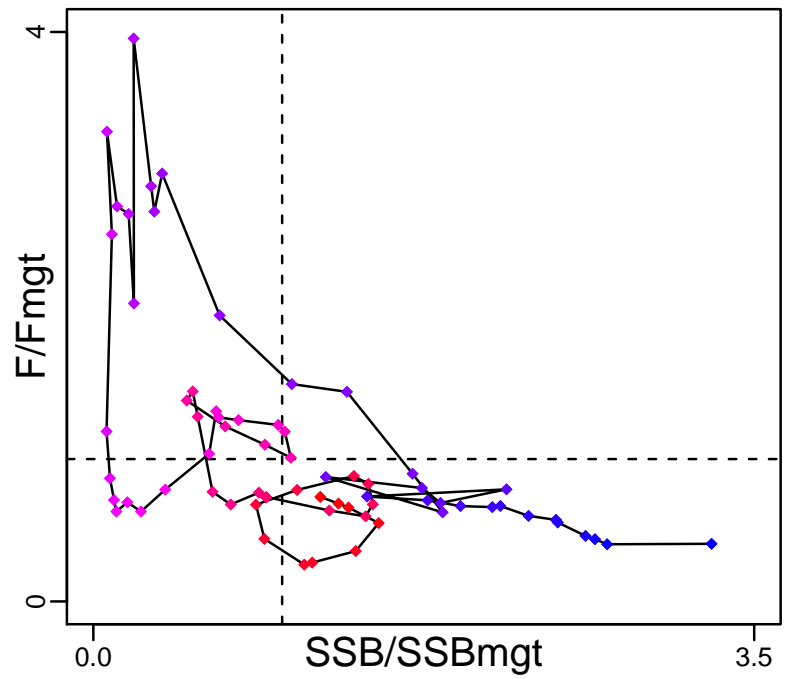
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	3,840,000	Both	-
<b>SSB</b>	SSB-MT	2016	2,010,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$2.34 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2016	0.242	-	-
<b>ER</b>	ER-calc-ratio	2016	0.129	-	-
<b>TC</b>	TC-MT	2016	494,000		
<b>TL</b>	TL-MT	2015	517,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.734		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.339		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.734		
<b>ER/ERmgt</b>	-	-	-		

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

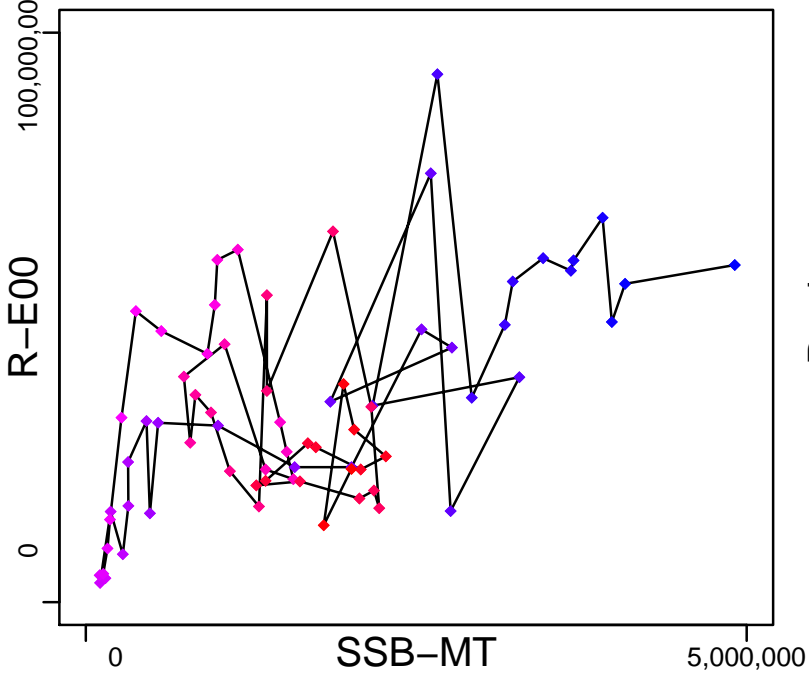
Kobe MSYpref (1947–2016–ICESIMP2016)



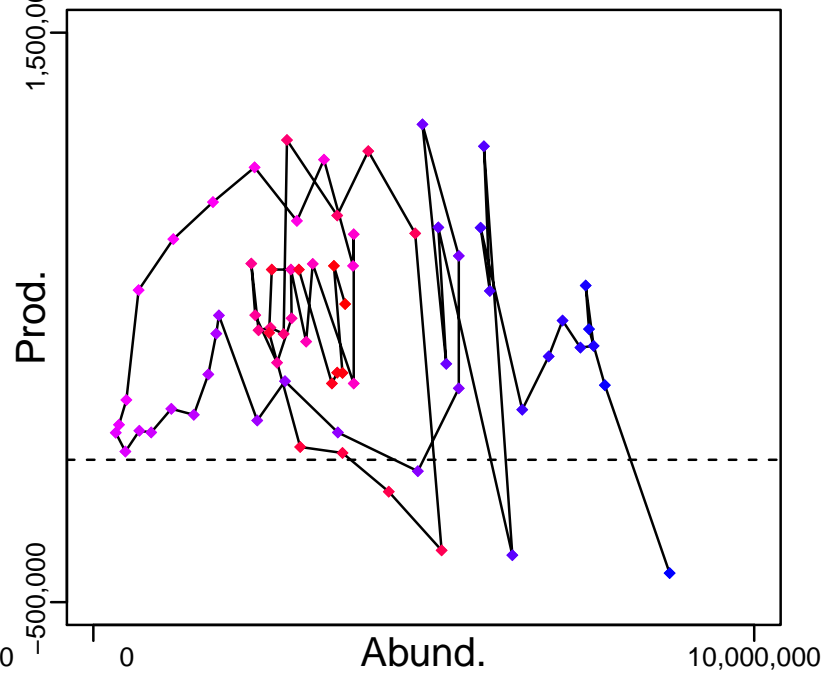
Kobe MGTpref (1947–2016–ICESIMP2016)



Spawner Recruit (1947–2016–ICESIMP2016)



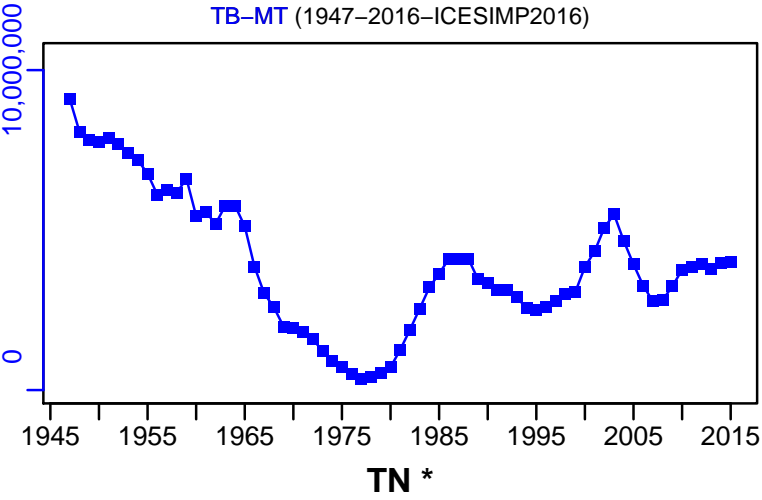
Production (1947–2016–ICESIMP2016)



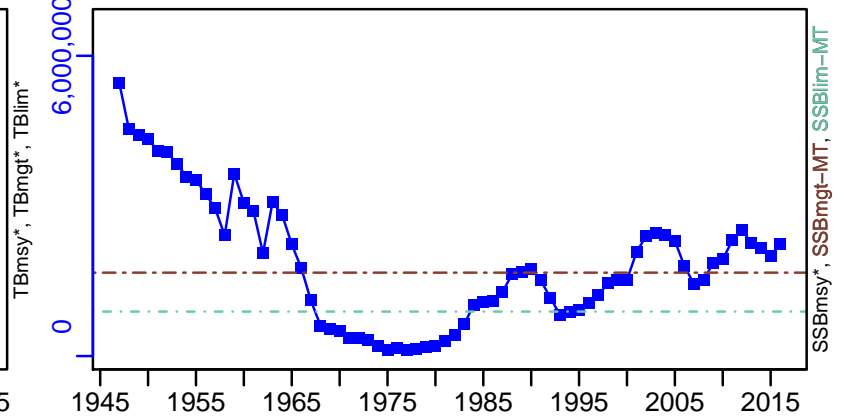
◆ Start Year ◆ End Year \* No Data

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

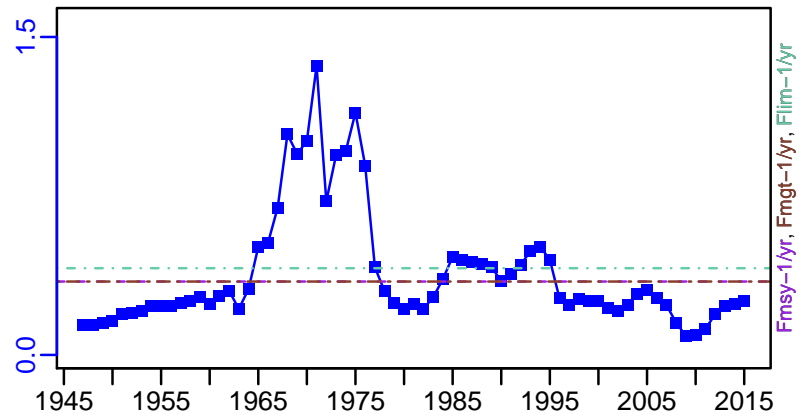
TB-MT (1947–2016–ICESIMP2016)



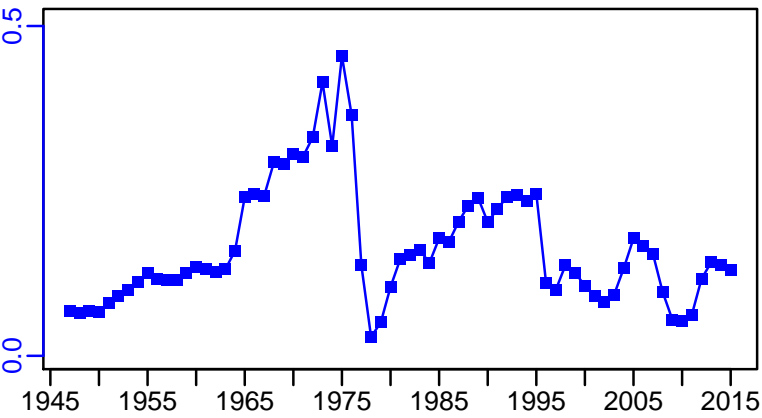
SSB-MT (1947–2016–ICESIMP2016)



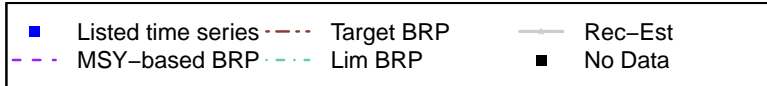
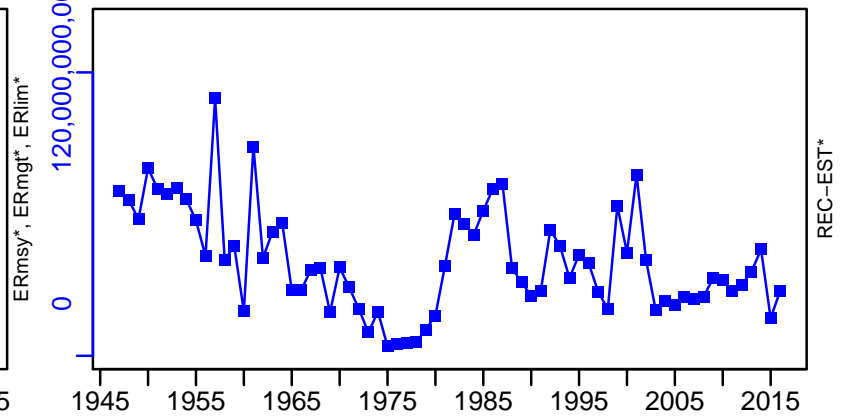
F-1/yr (1947–2016–ICESIMP2016)



ER-calc-ratio (1947–2016–ICESIMP2016)



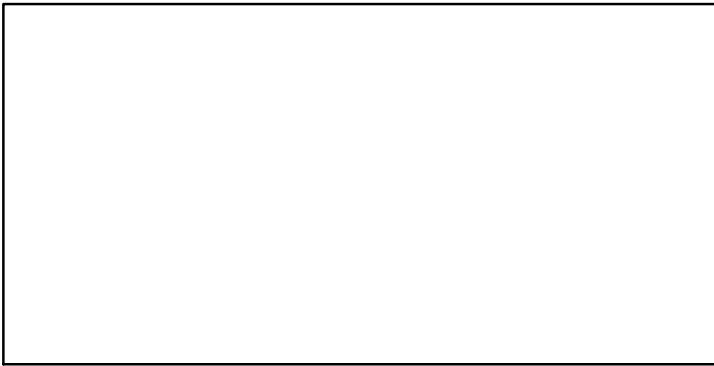
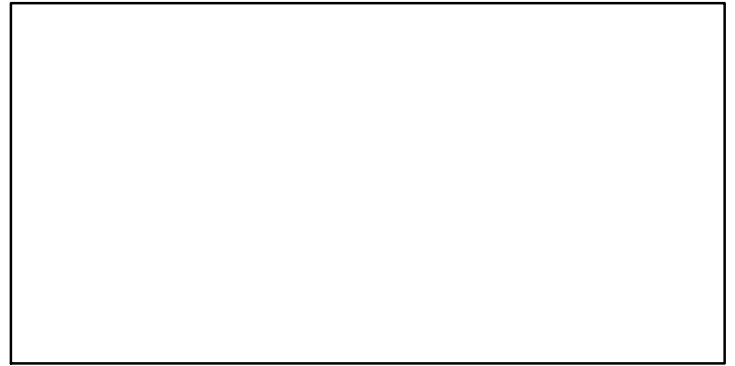
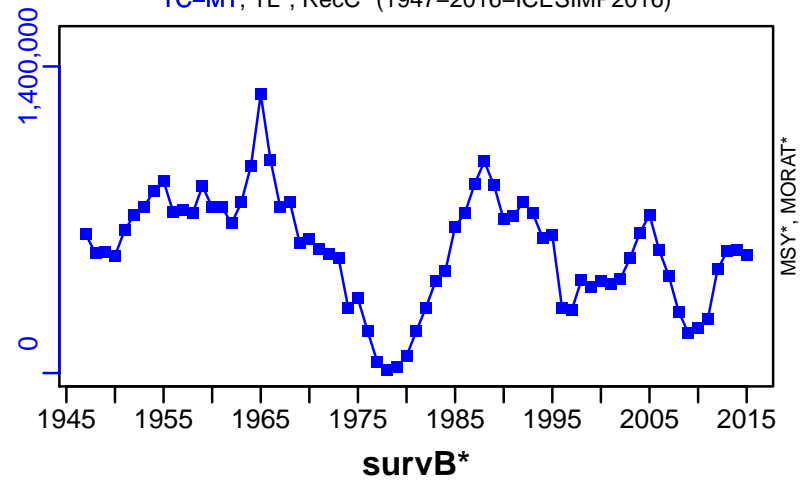
R-E00 (1947–2016–ICESIMP2016)



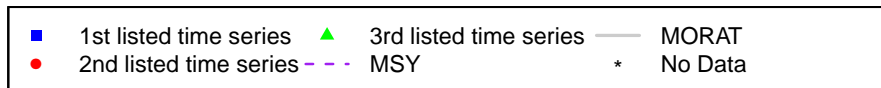
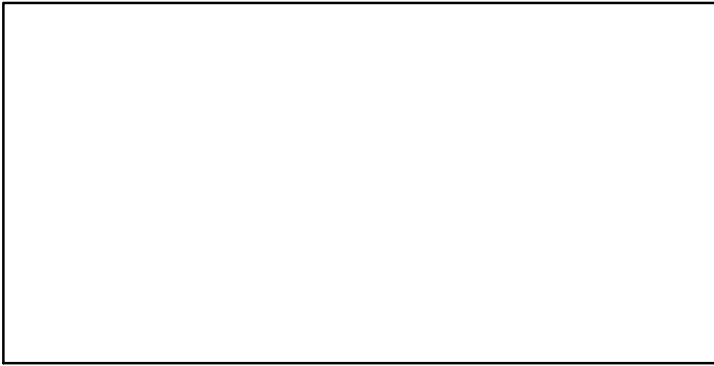
# Herring IIIa, VIId and North Sea [HERRNS-IIIa-VIId]

TC-MT, TL\*, RecC\* (1947-2016-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Herring ICES 28 [HERRRIGA]

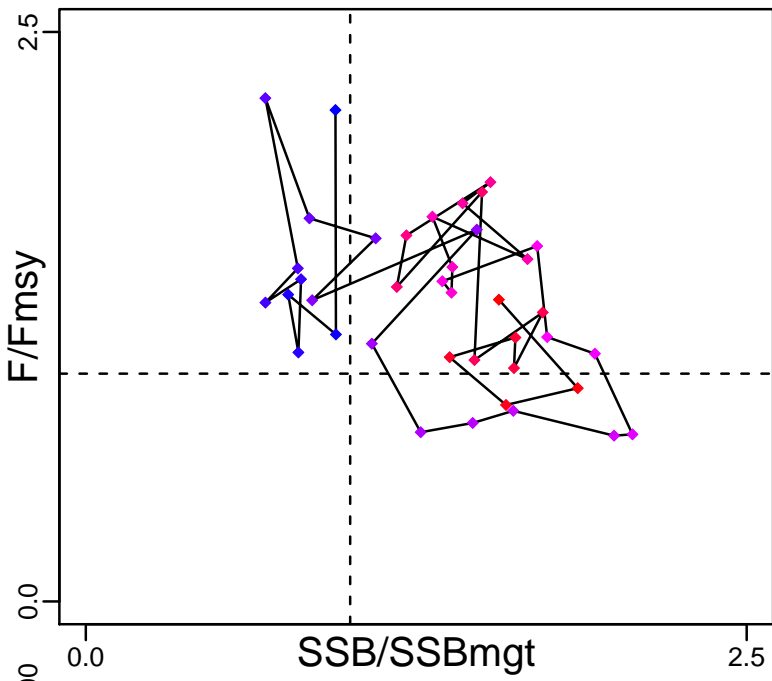
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	WGBFAS-HERRRIGA-1976-2016-ICESIMP2016
<b>Area</b>	Gulf of Riga East of Gotland
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2011	60,000
<b>Fmsy</b>	Fmsy-1/yr	2016	0.32
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	60,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.32
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.2
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	40,800
<b>Flim</b>	Flim-1/yr	2016	0.88
<b>ERlim</b>	-	-	-

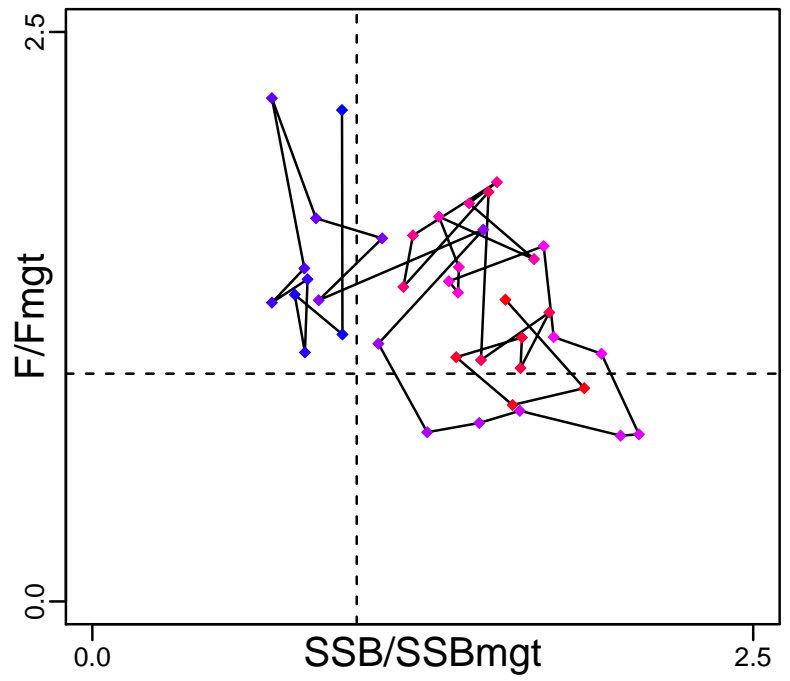
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	128,000	Both	-
<b>SSB</b>	SSB-MT	2016	78,200	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$2.99 \times 10^9$	-	1
<b>F</b>	F-1/yr	2016	0.424	-	3 to 7
<b>ER</b>	ER-calc-ratio	2016	0.256	-	-
<b>TC</b>	TC-MT	2016	32,900		
<b>TL</b>	TL-MT	2016	32,900		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2011	1.262		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.325		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.304		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.325		
<b>ER/ERmgt</b>	-	-	-		

# Herring ICES 28 [HERRRIGA]

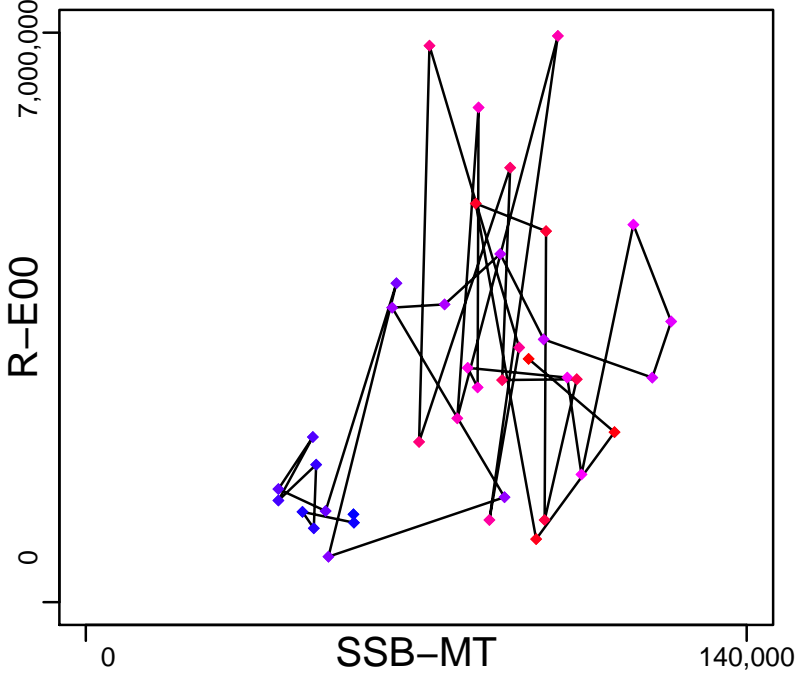
Kobe MSYpref (1976–2016–ICESIMP2016)



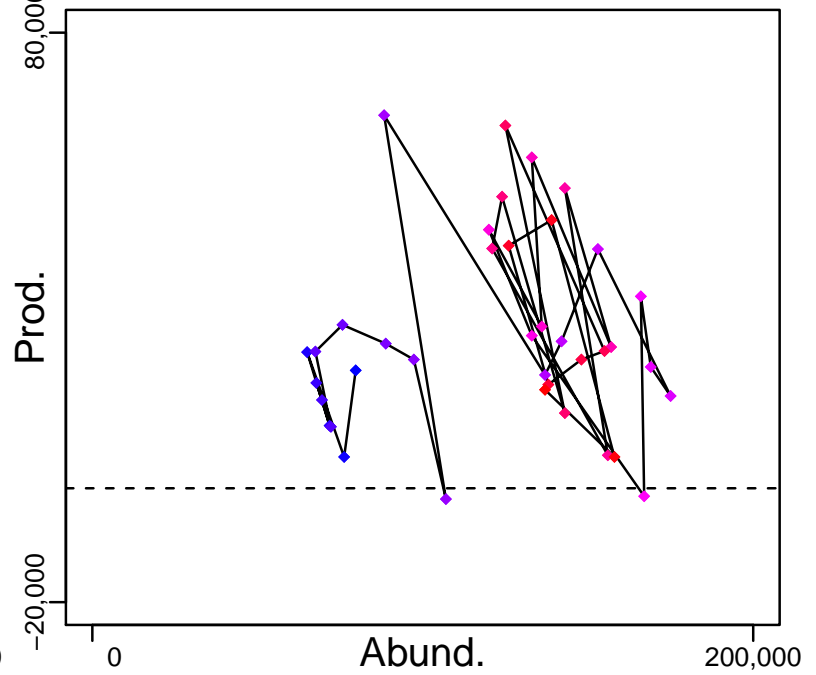
Kobe MGTpref (1976–2016–ICESIMP2016)



Spawner Recruit (1976–2016–ICESIMP2016)

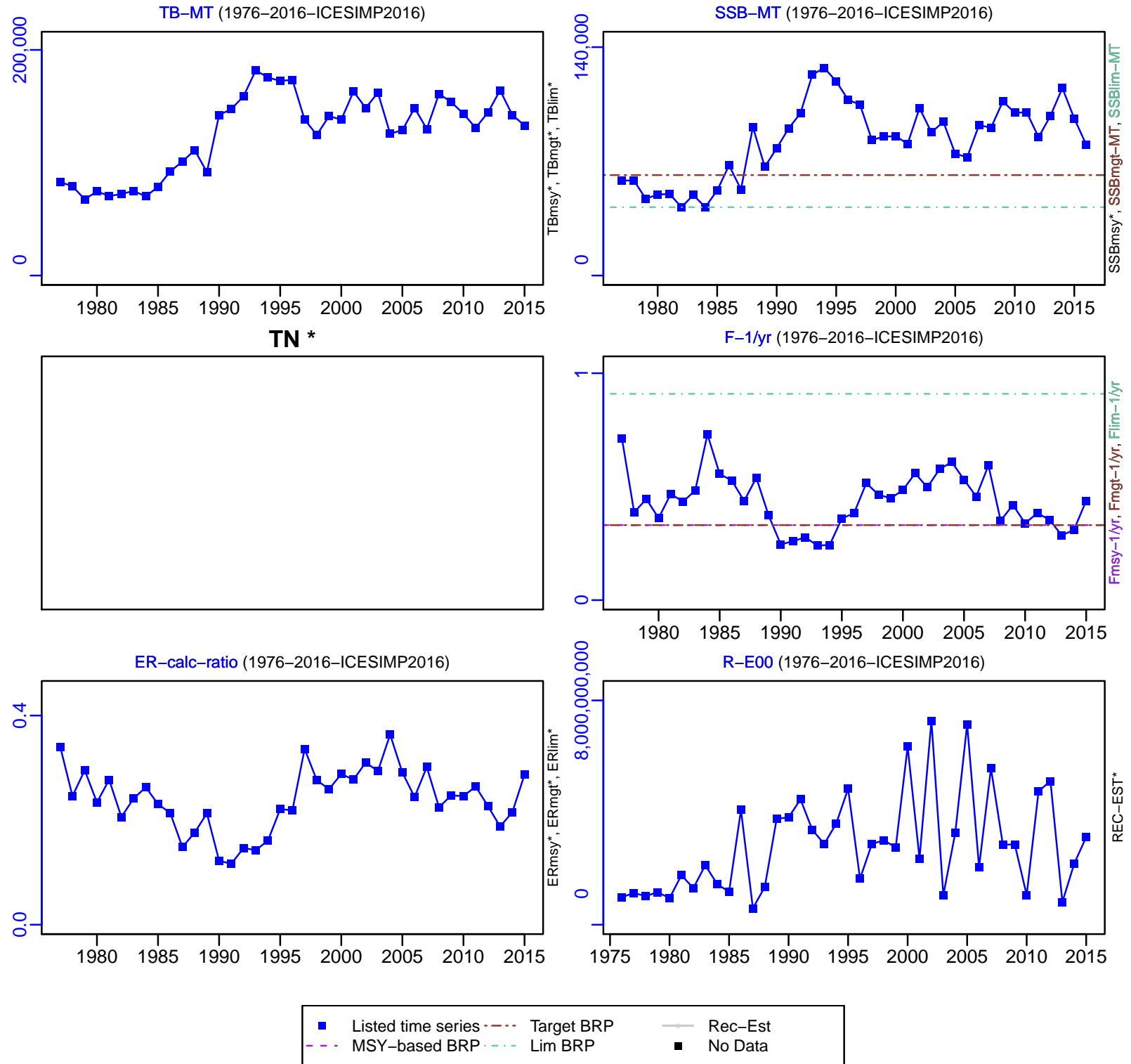


Production (1976–2016–ICESIMP2016)



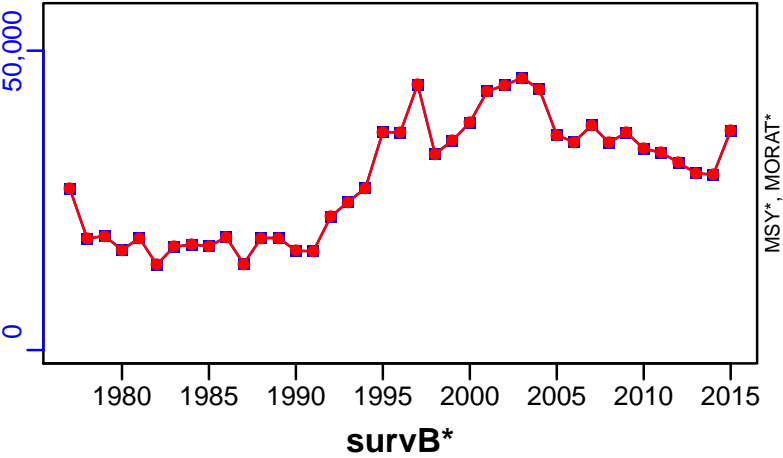
◆ Start Year ◆ End Year \* No Data

# Herring ICES 28 [HERRRIGA]

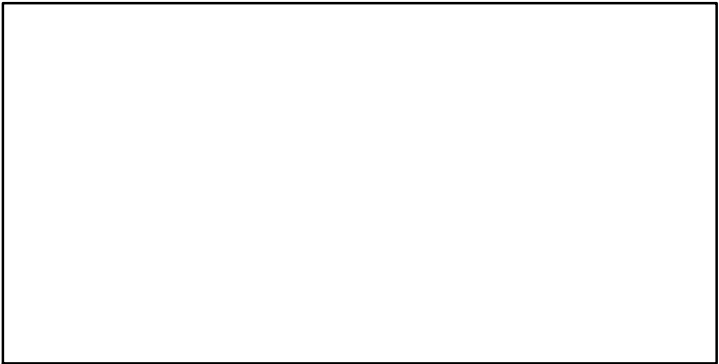


Herring ICES 28 [HERRRIGA]

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



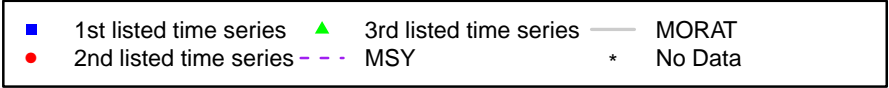
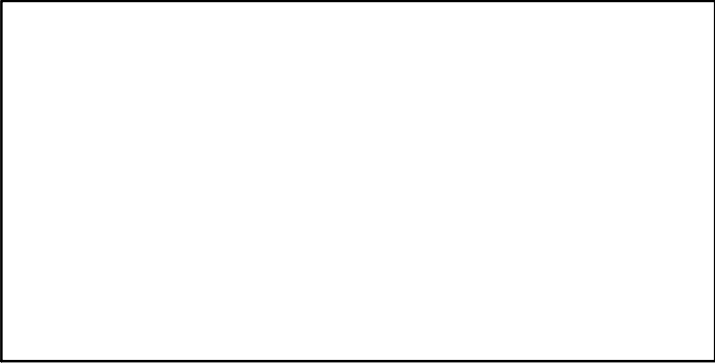
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

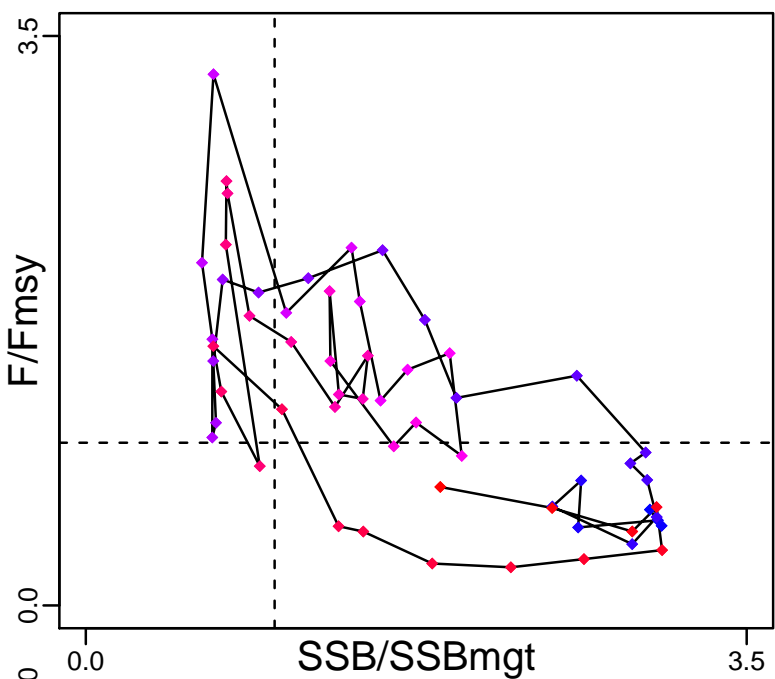
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERRSIRS-1957-2016-ICESIMP2016
<b>Area</b>	ICES VIIa-g-h-j
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.26
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	54,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.26
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2010	26,000
<b>SSBlim</b>	SSBlim-MT	2016	33,000
<b>Flim</b>	Flim-1/yr	2016	0.61
<b>ERlim</b>	-	-	-

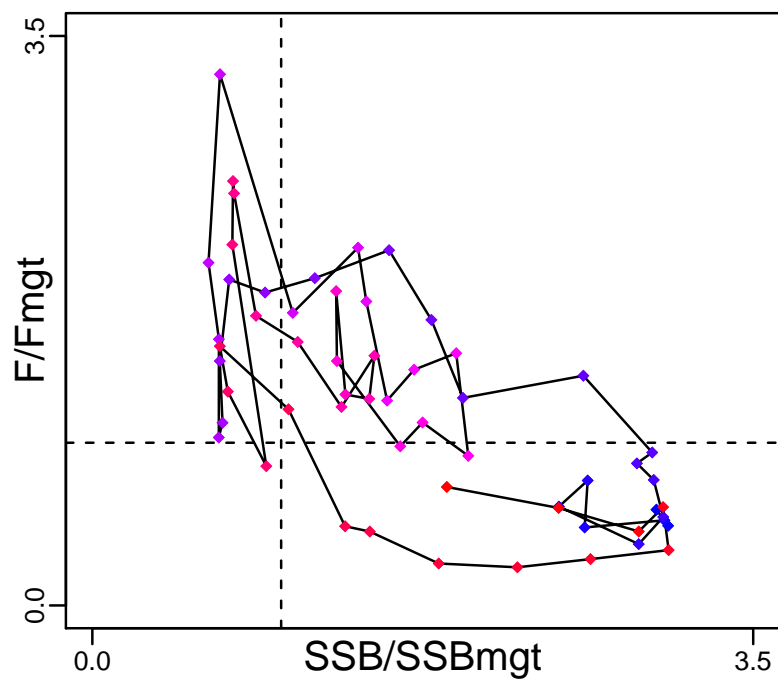
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	145,000	Both	-
<b>SSB</b>	SSB-MT	2016	84,900	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$5.38 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.189	-	2 to 5
<b>ER</b>	ER-calc-ratio	2016	0.126	-	-
<b>TC</b>	TC-MT	2016	18,400		
<b>TL</b>	TL-MT	2014	16,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.728		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.573		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.728		
<b>ER/ERmgt</b>	-	-	-		

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

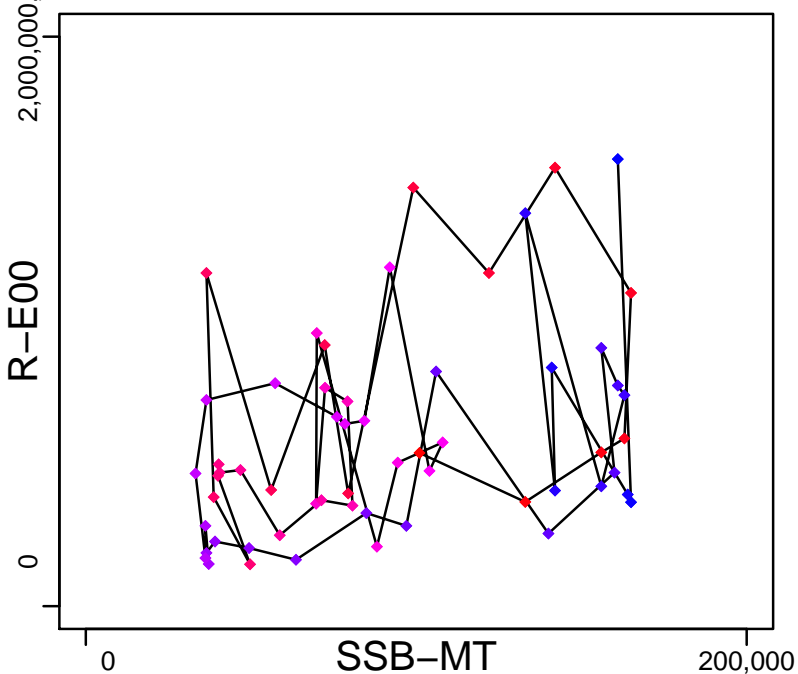
Kobe MSYpref (1957–2016–ICESIMP2016)



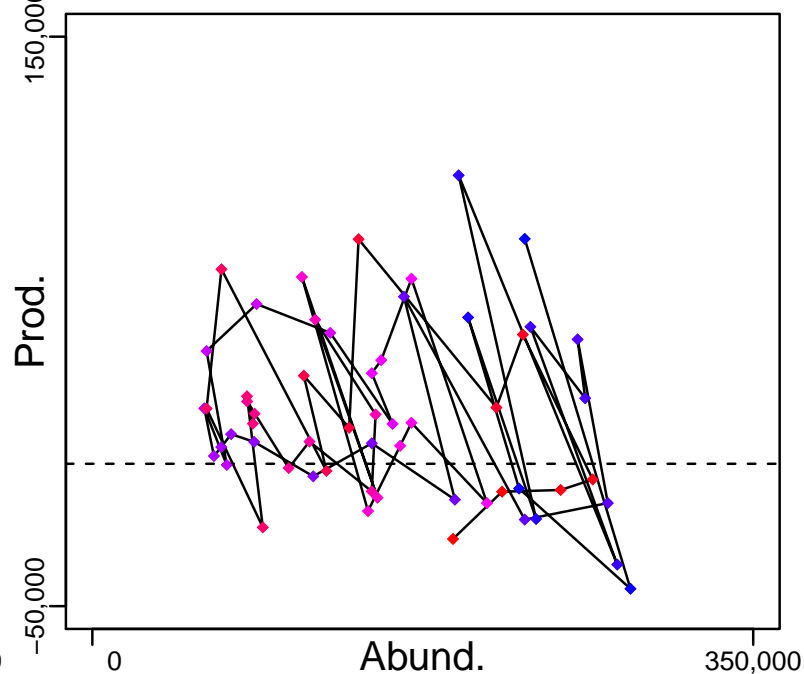
Kobe MGTpref (1957–2016–ICESIMP2016)



Spawner Recruit (1957–2016–ICESIMP2016)



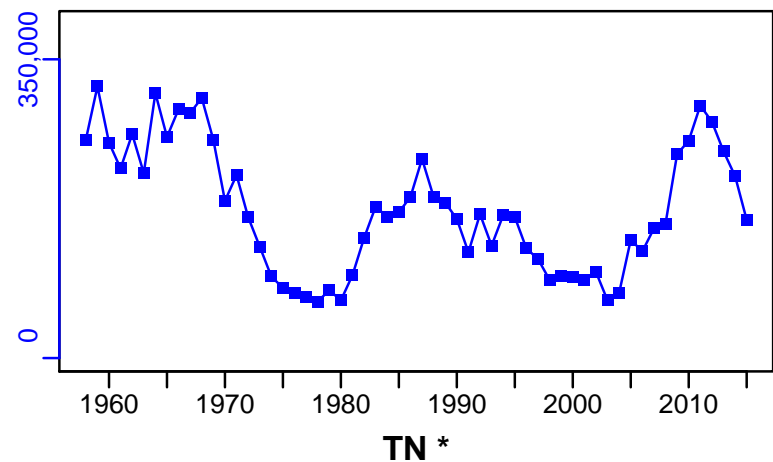
Production (1957–2016–ICESIMP2016)



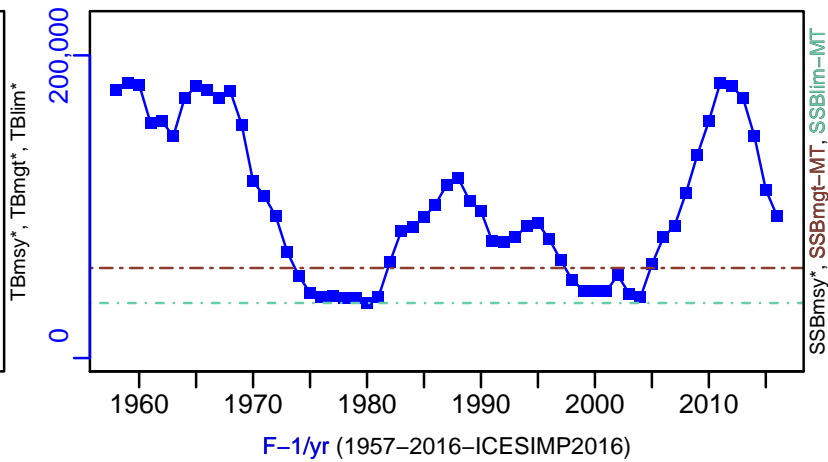
◆ Start Year ◆ End Year \* No Data

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

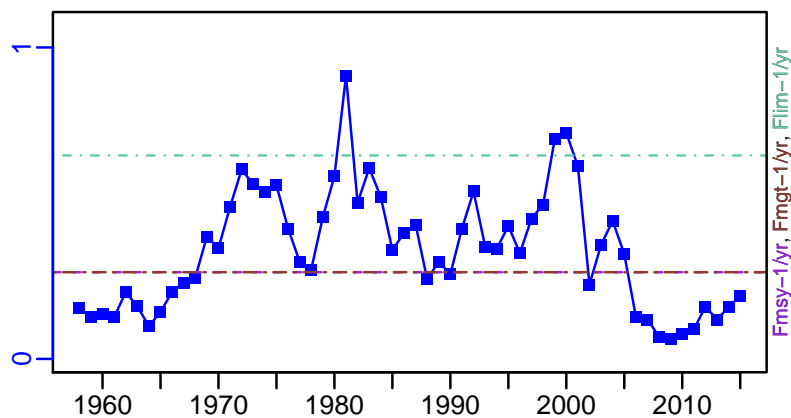
TB-MT (1957-2016-ICESIMP2016)



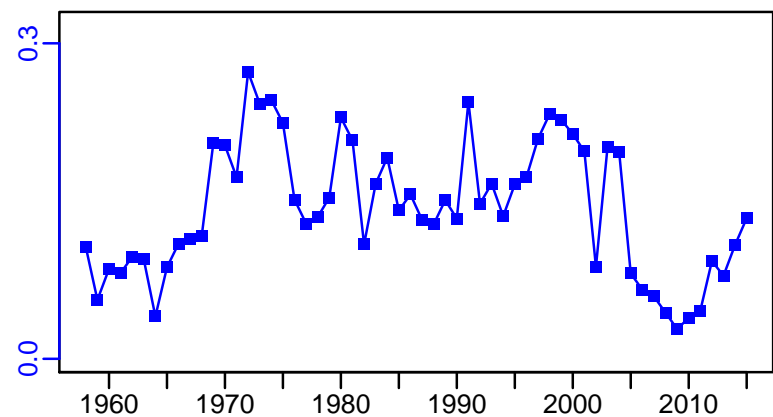
SSB-MT (1957-2016-ICESIMP2016)



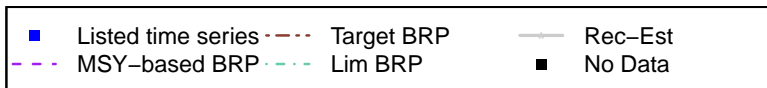
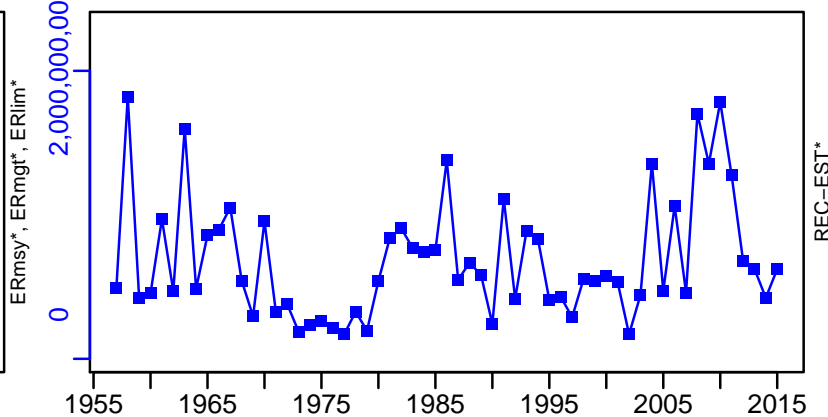
F-1/yr (1957-2016-ICESIMP2016)



ER-calc-ratio (1957-2016-ICESIMP2016)



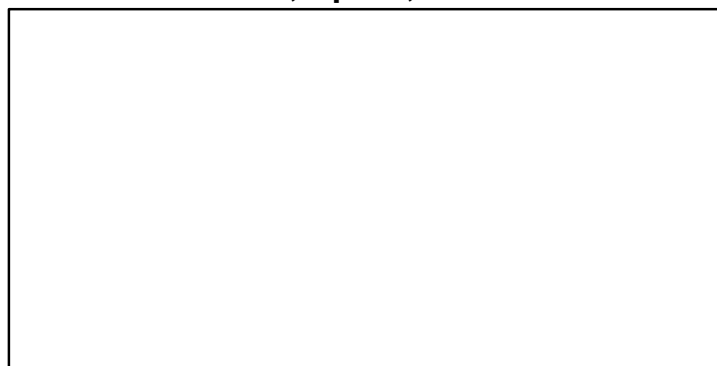
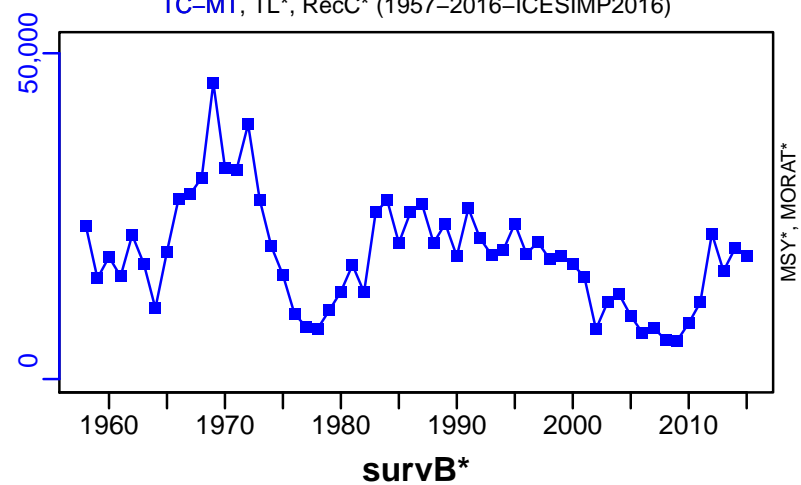
R-E00 (1957-2016-ICESIMP2016)



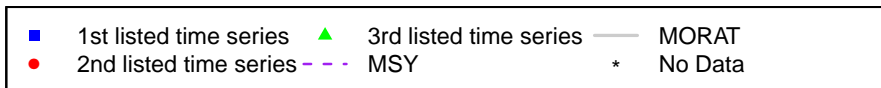
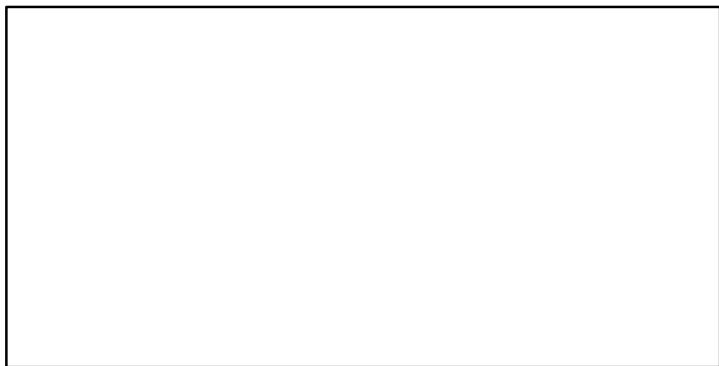
# Herring ICES VIIa-g-h-j [HERRSIRS]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Herring ICES VIa [HERRVIa]

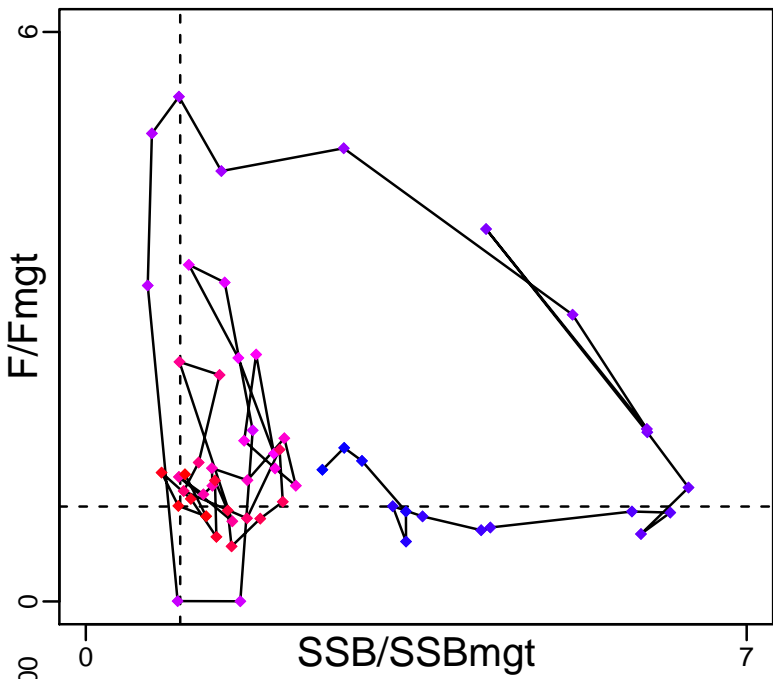
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERRVIa-1956-2014-ICESIMP2016
<b>Area</b>	West of Scotland
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts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

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

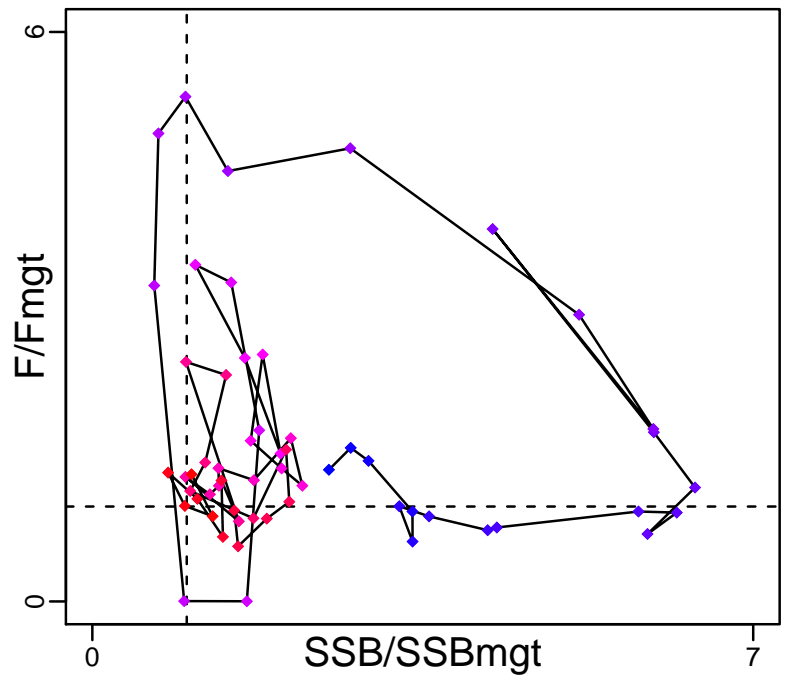
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	114,000	Both	-
<b>SSB</b>	SSB-MT	2014	78,800	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$6 \times 10^8$	-	1
<b>F</b>	F-1/yr	2014	0.268	-	3 to 6 ringer
<b>ER</b>	ER-calc-ratio	2014	0.202	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT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

# Herring ICES Vla [HERRVla]

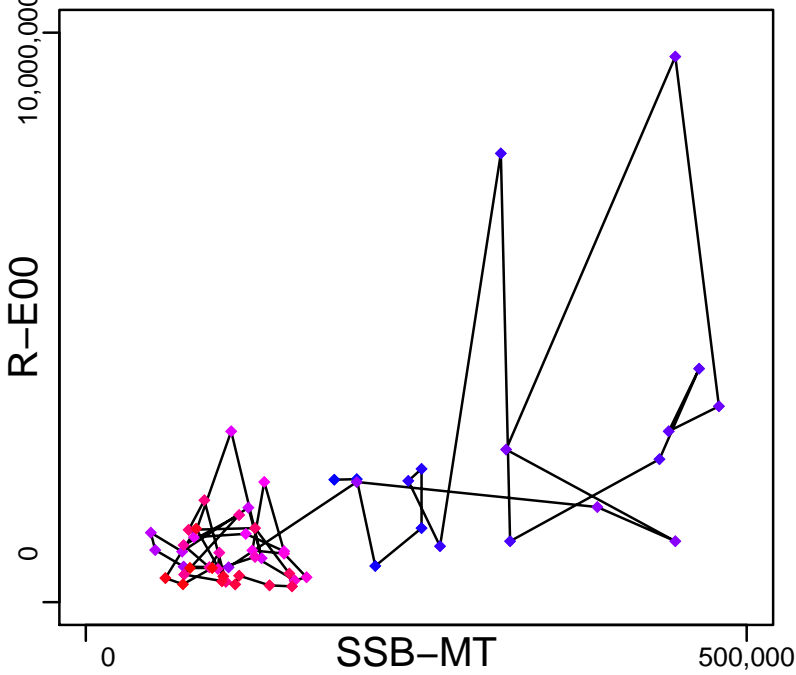
Kobe MSYpref (1956–2014–ICESIMP2016)



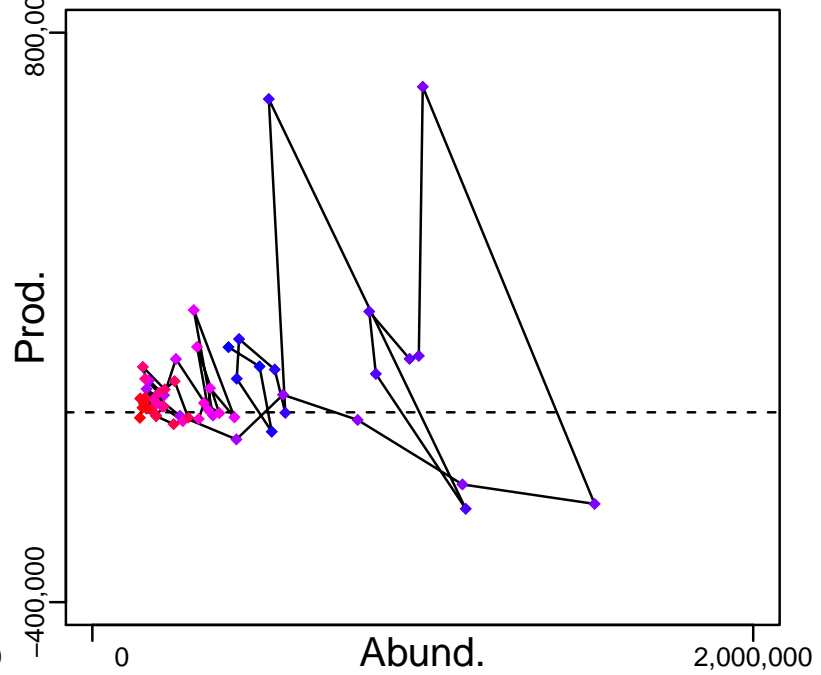
Kobe MGTpref (1956–2014–ICESIMP2016)



Spawner Recruit (1956–2014–ICESIMP2016)



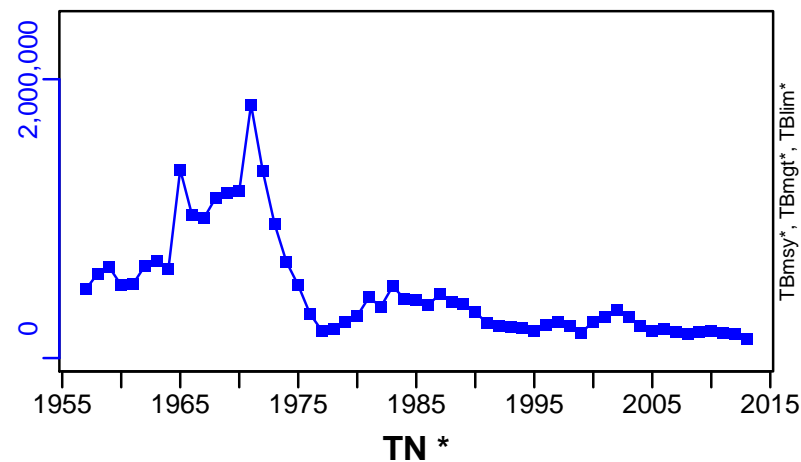
Production (1956–2014–ICESIMP2016)



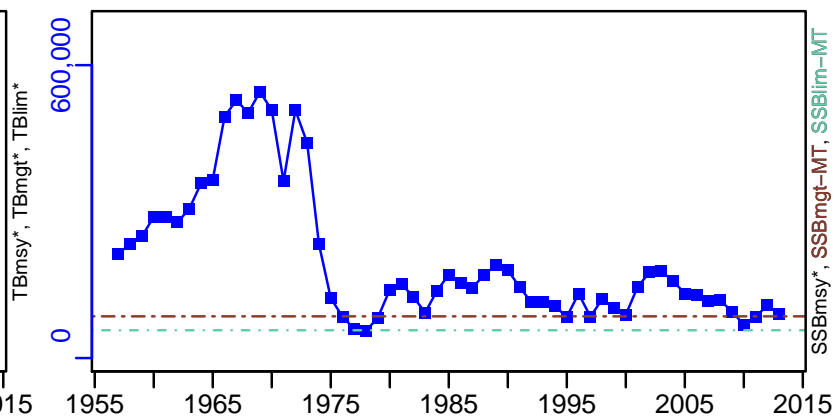
◆ Start Year ◆ End Year \* No Data

# Herring ICES Vla [HERRVla]

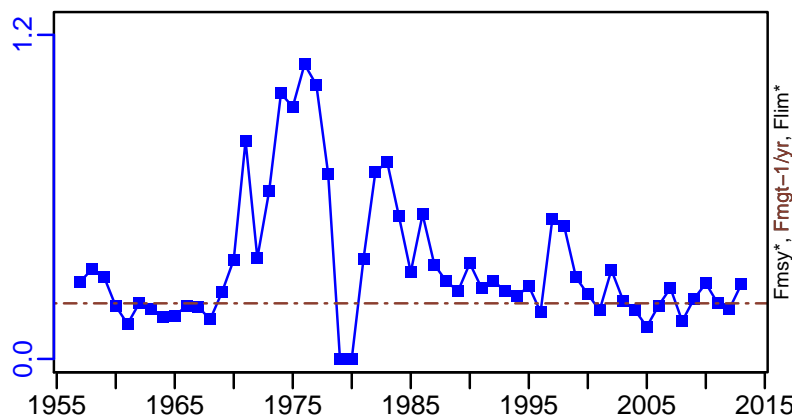
TB-MT (1956–2014–ICESIMP2016)



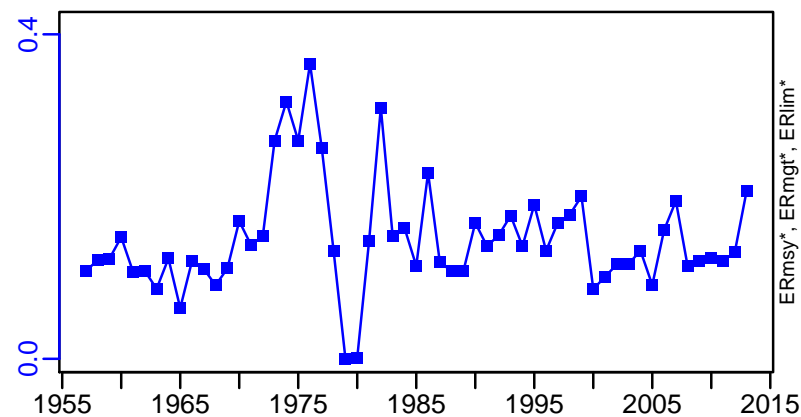
SSB-MT (1956–2014–ICESIMP2016)



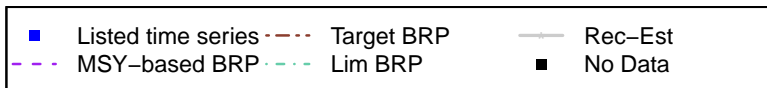
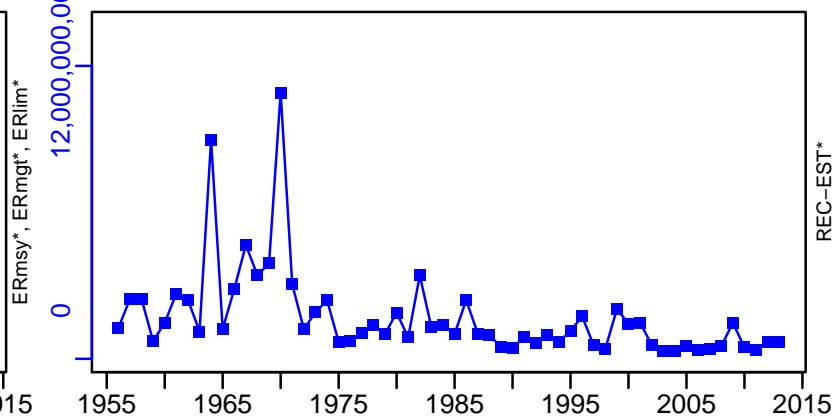
F-1/yr (1956–2014–ICESIMP2016)



ER-calc-ratio (1956–2014–ICESIMP2016)

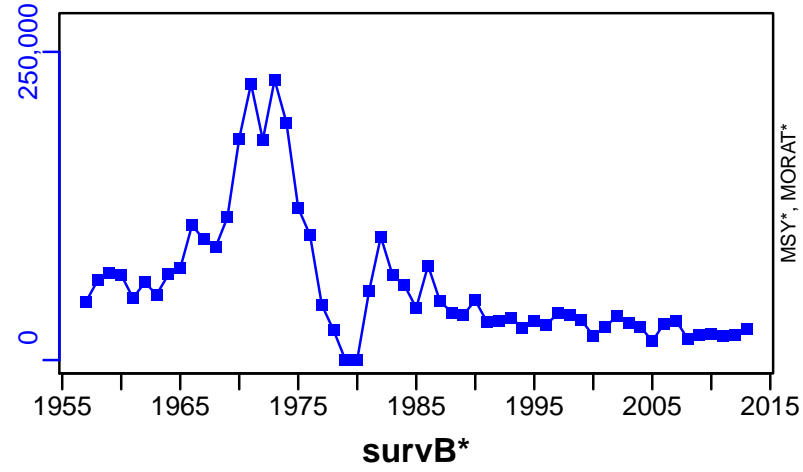


R-E00 (1956–2014–ICESIMP2016)

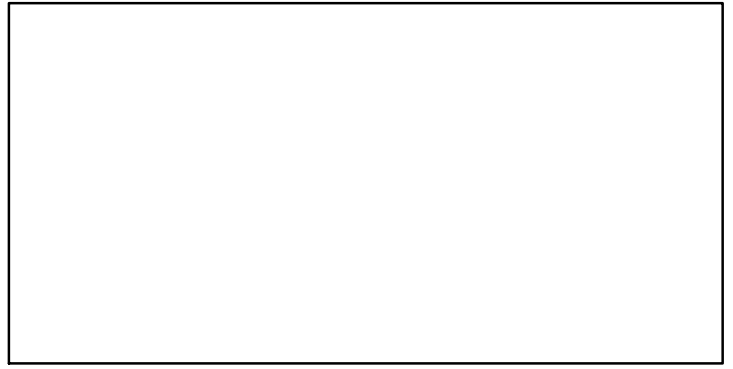


Herring ICES VIa [HERRVIa]

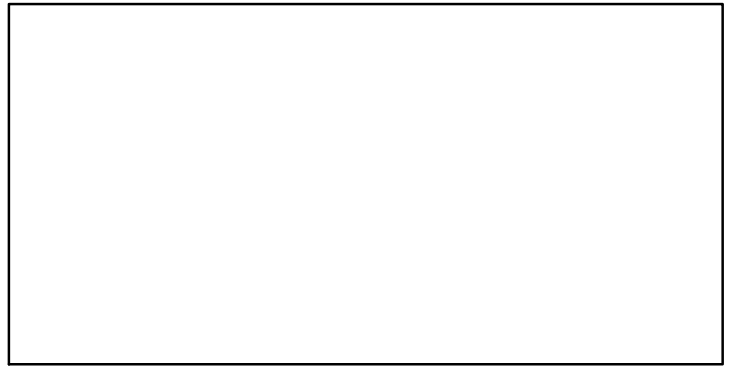
TL-MT, TC\*, RecC\* (1956–2014–ICESIMP2016)



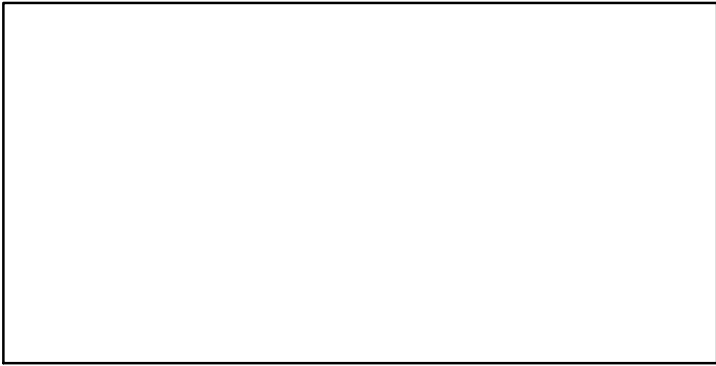
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



## Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]

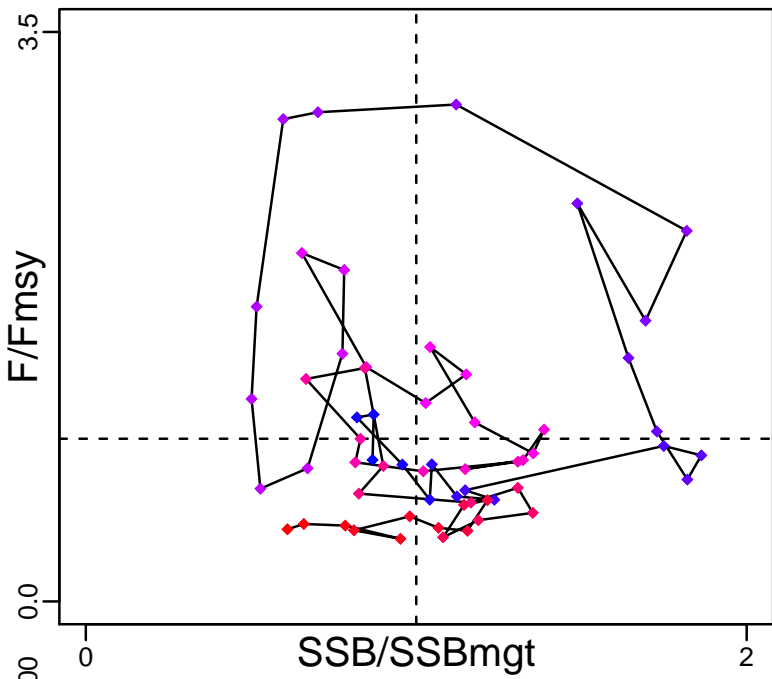
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	HAWG-HERRVIaVIIbc-1956-2016-ICESIMP2016
<b>Area</b>	VIa, VIIb and VIIc
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.16
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	410,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.16
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2010	81,000
<b>SSBlim</b>	SSBlim-MT	2016	250,000
<b>Flim</b>	Flim-1/yr	2016	0.3
<b>ERlim</b>	-	-	-

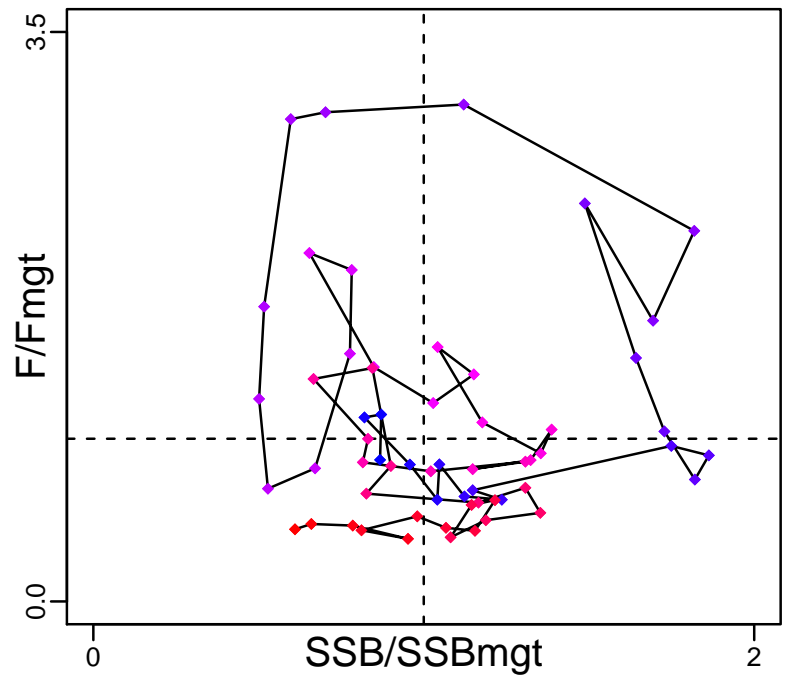
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	419,000	Both	-
<b>SSB</b>	SSB-MT	2016	214,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$9.09 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.071	-	3 to 6
<b>ER</b>	ER-calc-ratio	2016	0.047	-	-
<b>TC</b>	TC-MT	2016	19,900		
<b>TL</b>	TL-MT	2015	27,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.443		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.522		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.443		
<b>ER/ERmgt</b>	-	-	-		

# Herring ICES VIa-VIIb-VIIc [HERRVIaVIIbc]

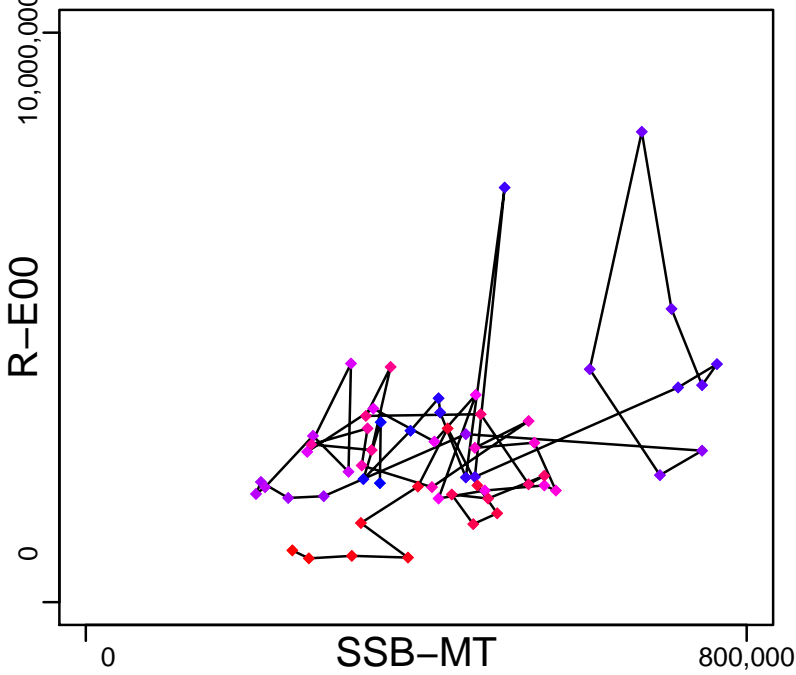
Kobe MSYpref (1956-2016-ICESIMP2016)



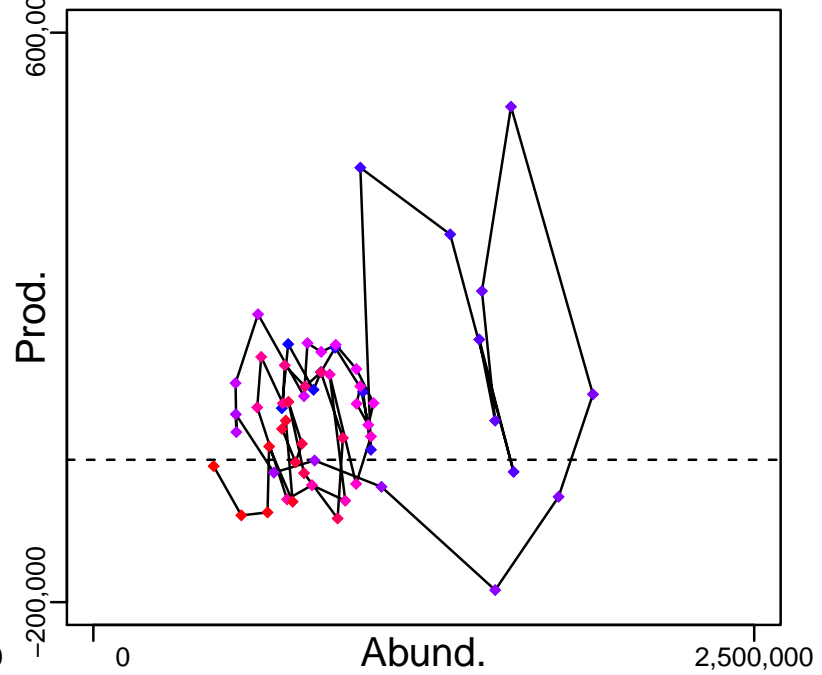
Kobe MGTpref (1956-2016-ICESIMP2016)



Spawner Recruit (1956-2016-ICESIMP2016)



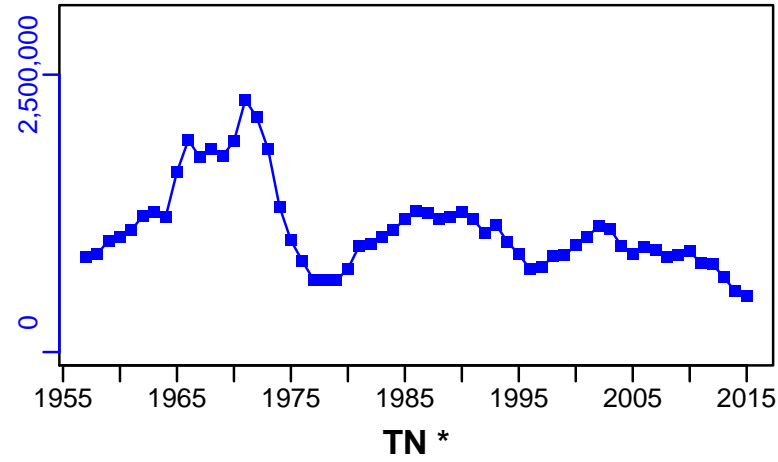
Production (1956-2016-ICESIMP2016)



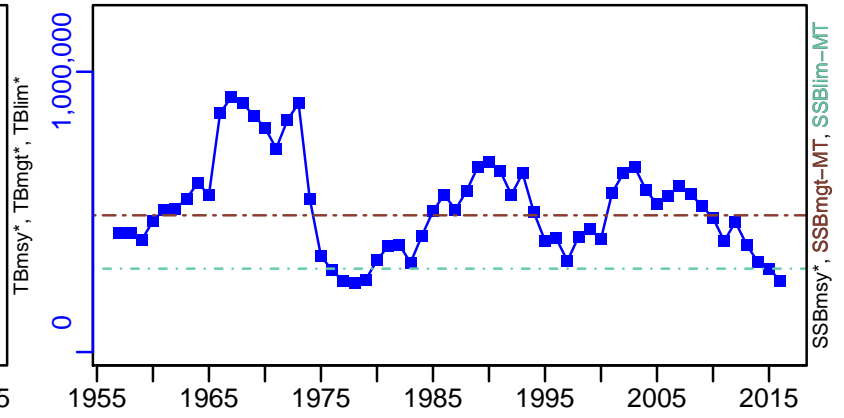
◆ Start Year ◆ End Year \* No Data

# Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

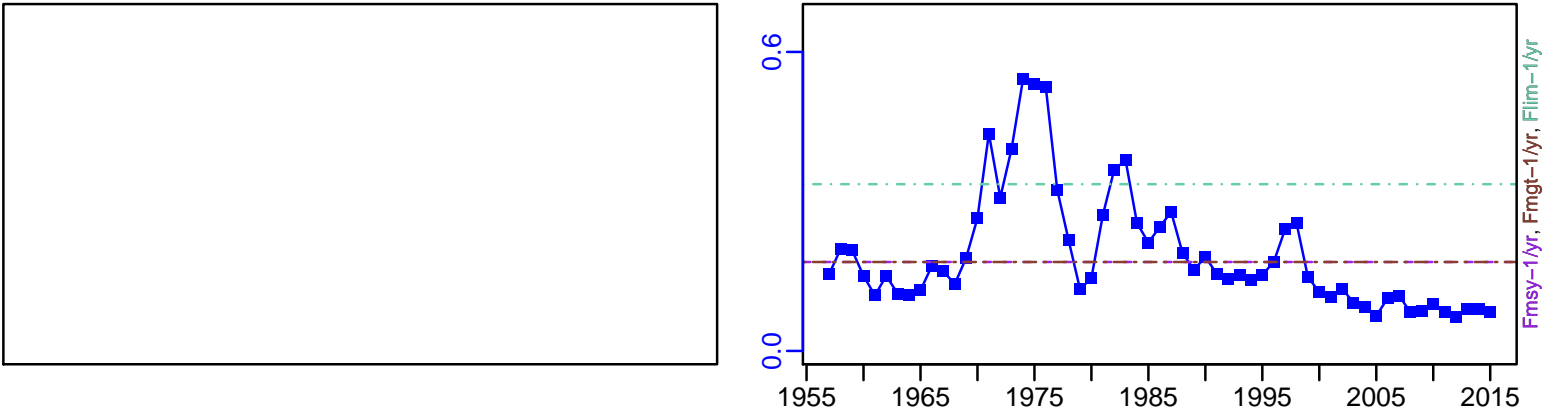
TB-MT (1956–2016–ICESIMP2016)



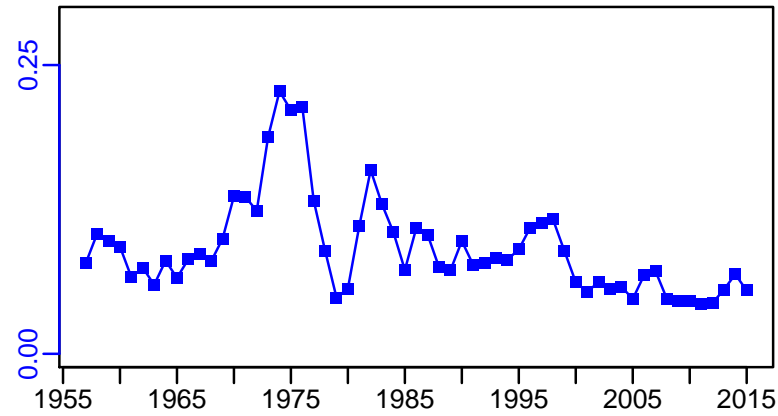
SSB-MT (1956–2016–ICESIMP2016)



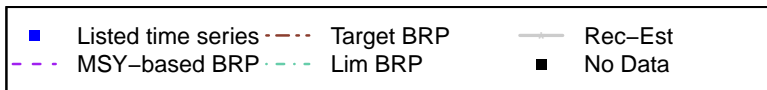
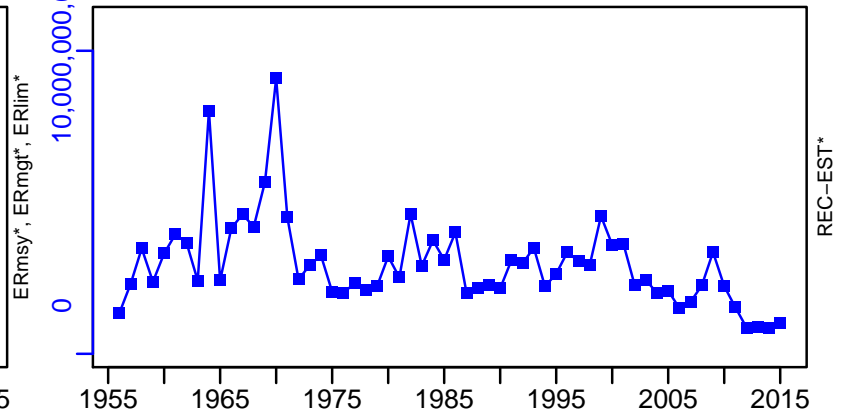
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2016–ICESIMP2016)

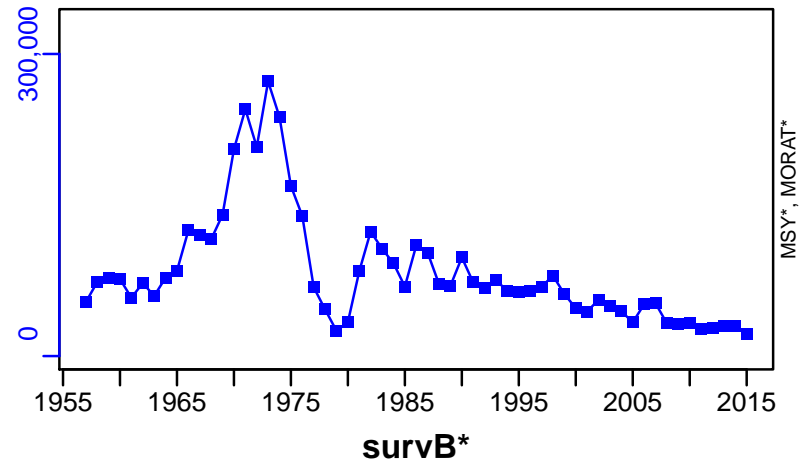


R-E00 (1956–2016–ICESIMP2016)

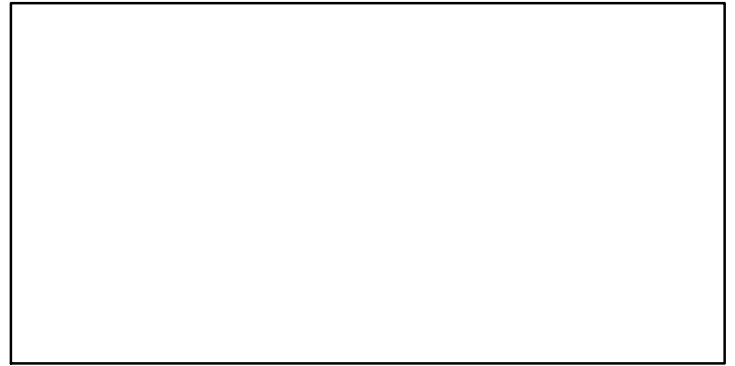


Herring ICES VIa–VIIb–VIIc [HERRVIaVIIbc]

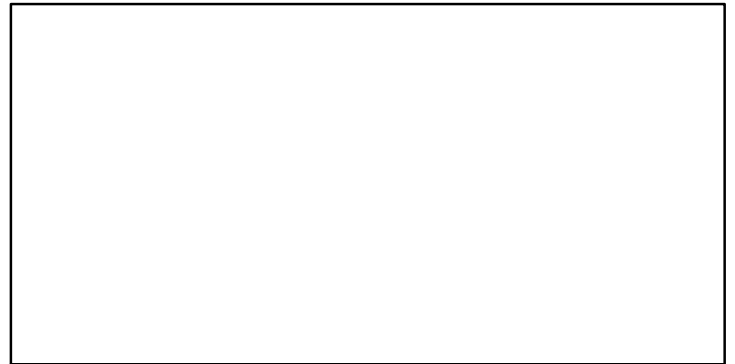
TC–MT, TL\*, RecC\* (1956–2016–ICESIMP2016)



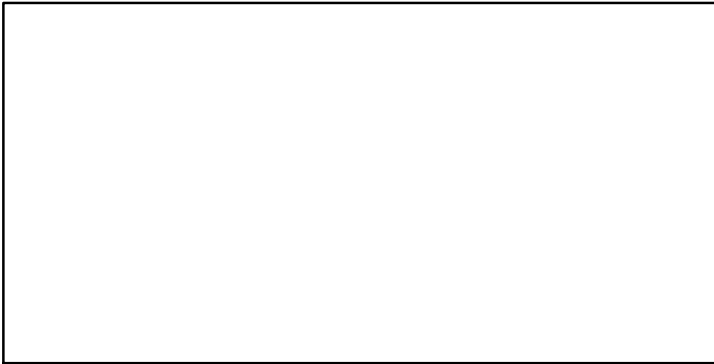
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

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

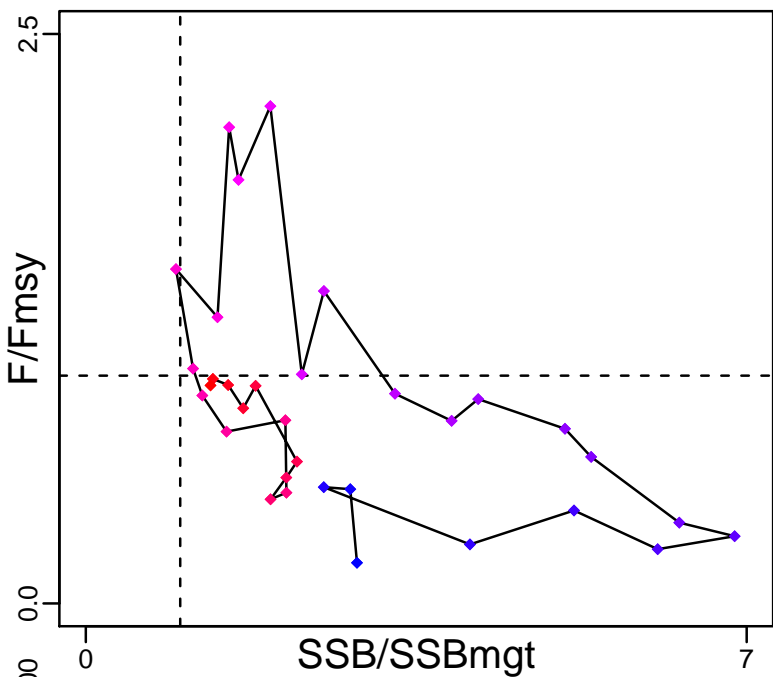
Metadata	
<b>Scientific Name</b>	Trachurus trachurus
<b>Current Assess ID</b>	WGWIDE-HMACKIIa-IVa-Vb-VIa-VII-VIII-1982-2015-ICESIMP2016
<b>Area</b>	IIa-IVa-Vb-VIa-VII-VIII
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.13
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2015	634,577
<b>Fmgt</b>	Fmgt-1/yr	2015	0.13
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

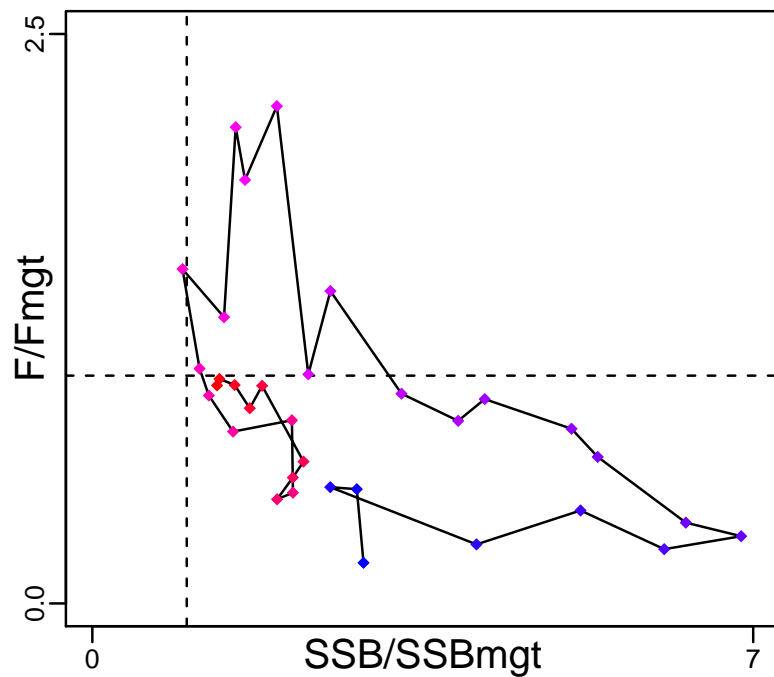
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	1,140,000	Both	-
<b>SSB</b>	SSB-MT	2015	724,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$2.45 \times 10^9$	-	0
<b>F</b>	F-1/yr	2015	0.124	-	1 to 10
<b>ER</b>	ER-calc-ratio	2015	0.113	-	-
<b>TC</b>	TC-MT	2015	129,000		
<b>TL</b>	TL-MT	2014	161,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.957		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2015	1.14		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.957		
<b>ER/ERmgt</b>	-	-	-		

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

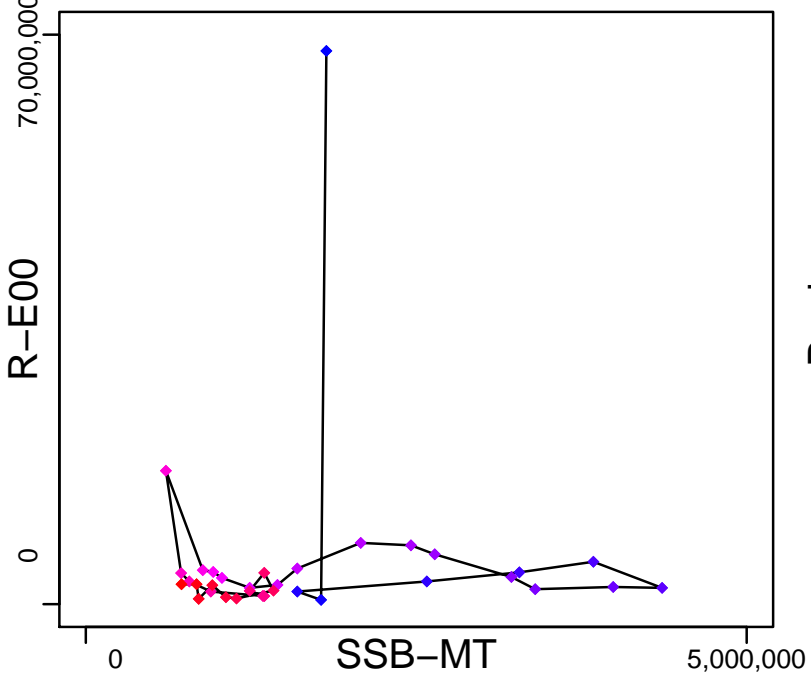
Kobe MSYpref (1982-2015-ICESIMP2016)



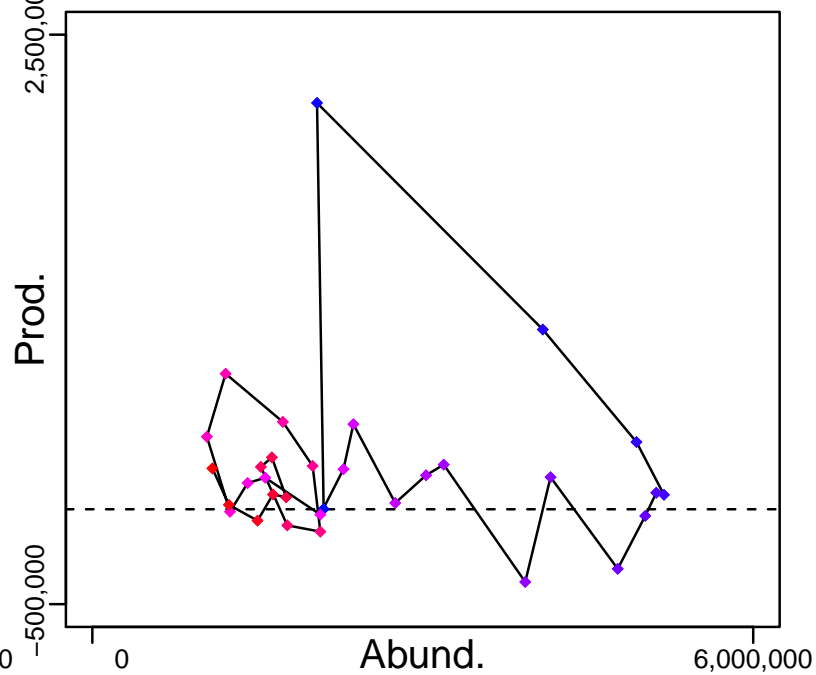
Kobe MGTpref (1982-2015-ICESIMP2016)



Spawner Recruit (1982-2015-ICESIMP2016)



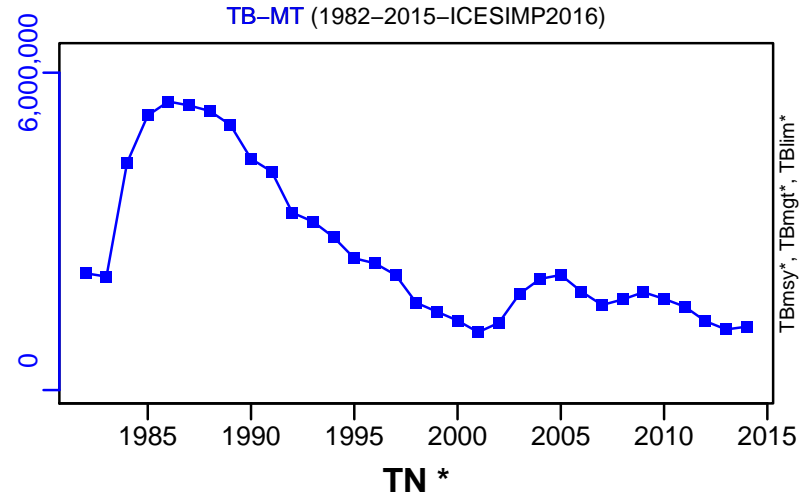
Production (1982-2015-ICESIMP2016)



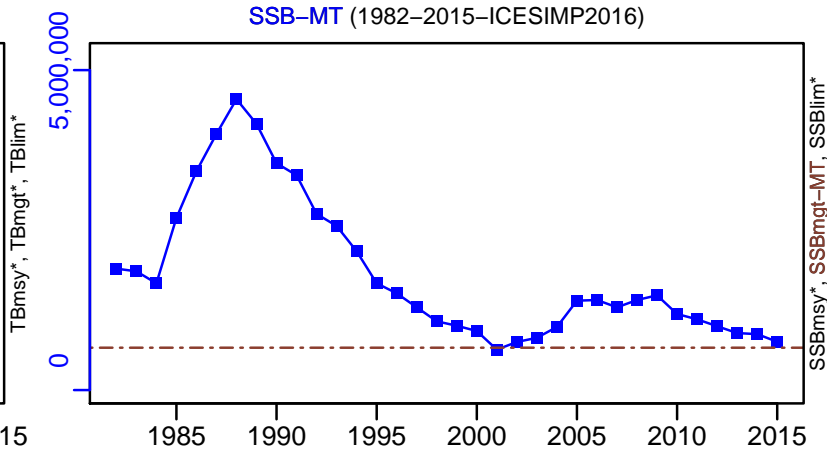
◆ Start Year ◆ End Year \* No Data

# Horse mackerel IIa-IVa-Vb-VIa-VII-VIII [HMAcKIIa-IVa-Vb-VIa-VII-VIII]

TB-MT (1982-2015-ICESIMP2016)



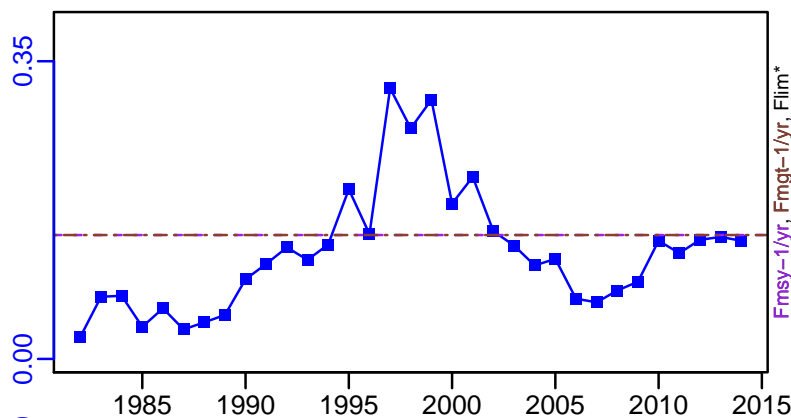
SSB-MT (1982-2015-ICESIMP2016)



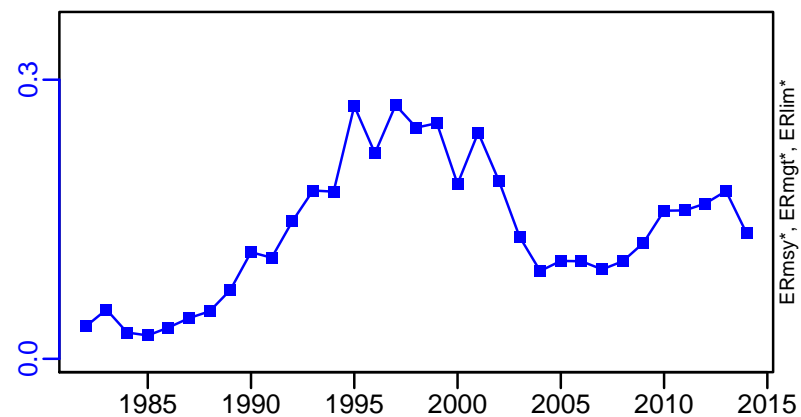
TN \*



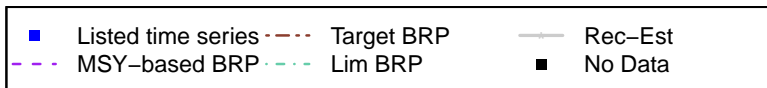
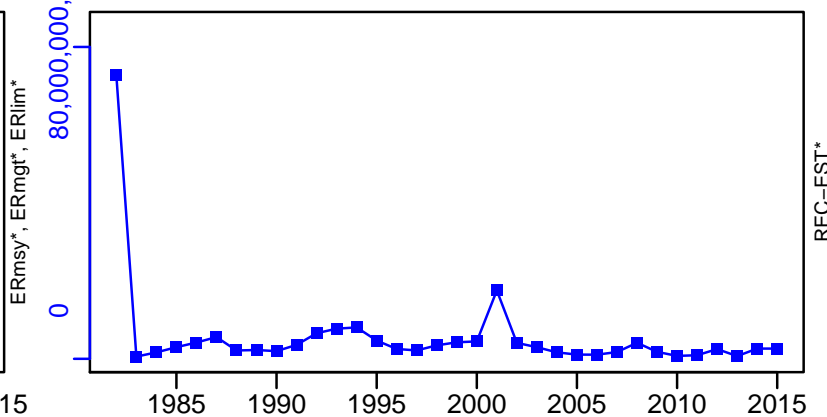
F-1/yr (1982-2015-ICESIMP2016)



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



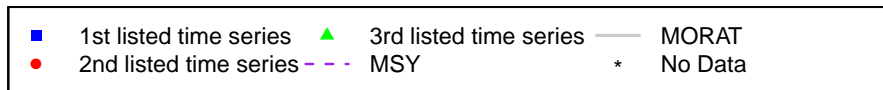
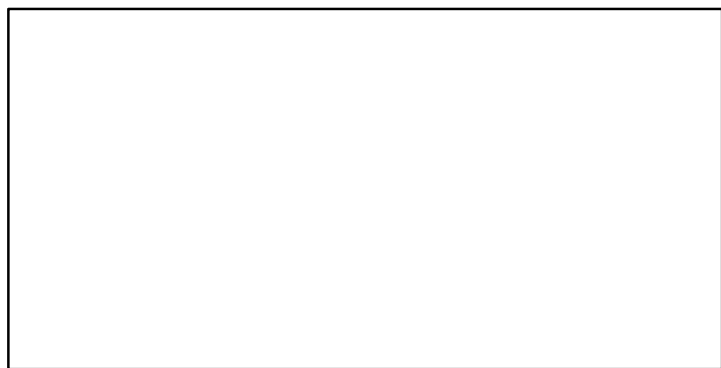
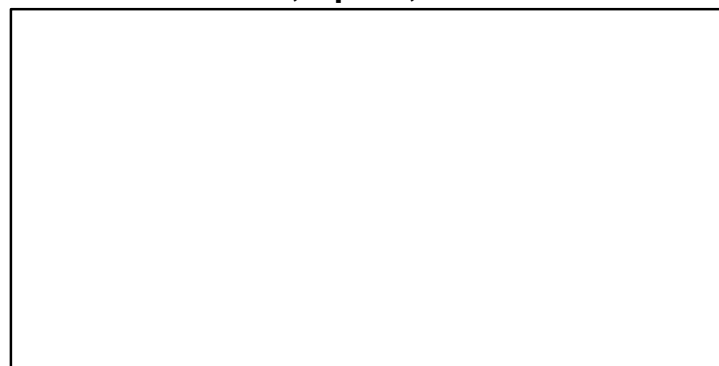
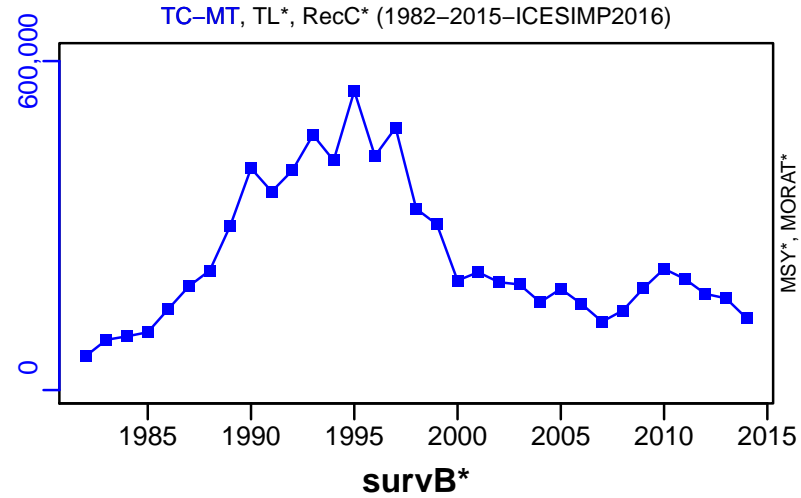
R-E00 (1982-2015-ICESIMP2016)



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

TC-MT, TL\*, RecC\* (1982-2015-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*





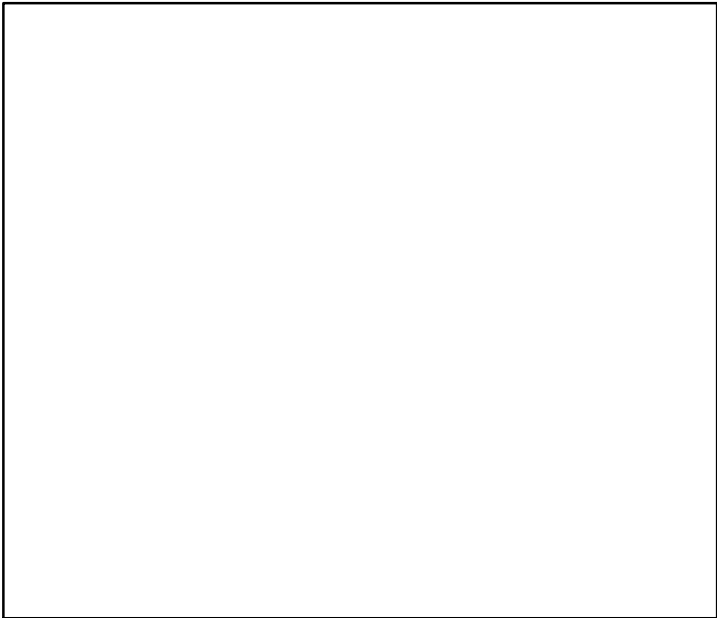
## Horse mackerel IIIa-IVbc-VIId [HMACKIIIa-IVbc-VIId]

Metadata	
<b>Scientific Name</b>	Trachurus trachurus
<b>Current Assess ID</b>	WGWIDE-HMACKIIIa-IVbc-VIId-1982-2015-ICESIMP2016
<b>Area</b>	IIIa-IVbc-VIId
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed Stocks
<b>Asmts in RAM</b>	2015

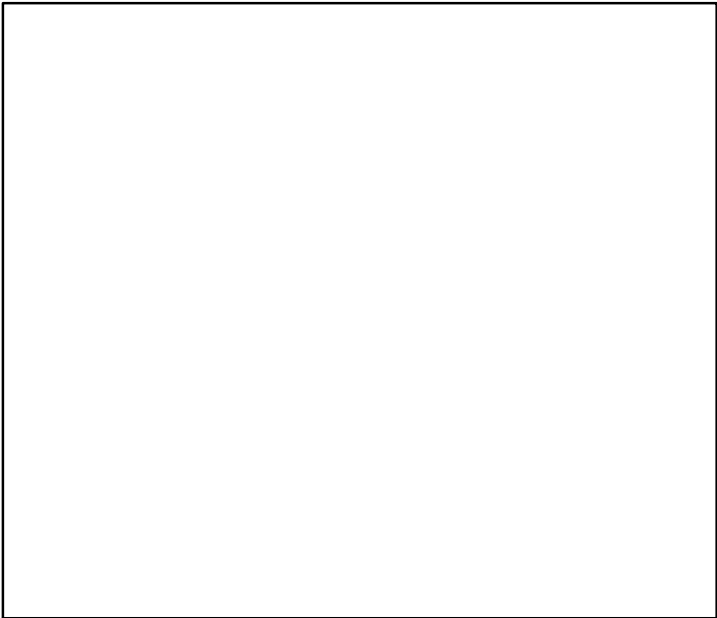
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	13,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

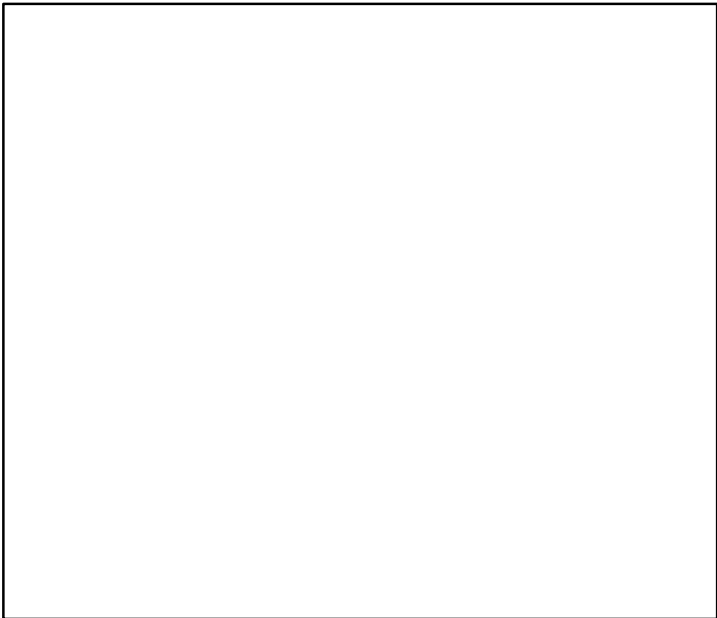
**Kobe MSY\***



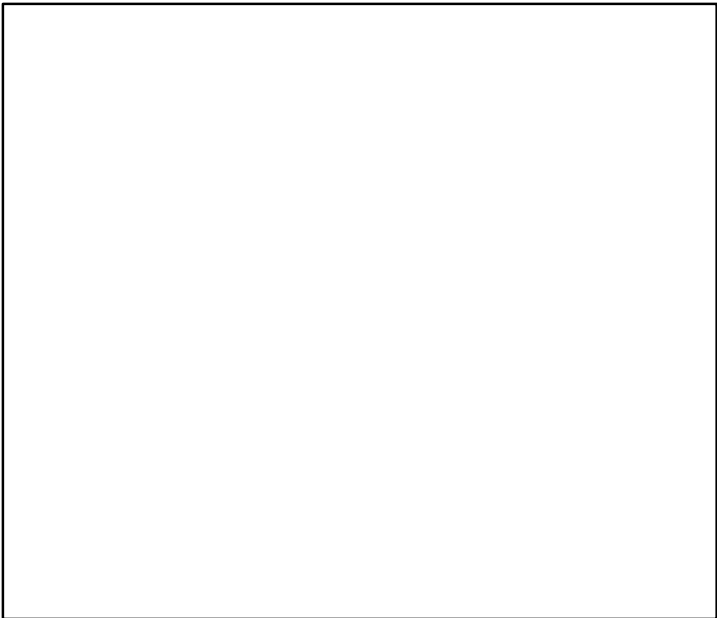
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

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

**TB\***



**SSB\***



**TN \***



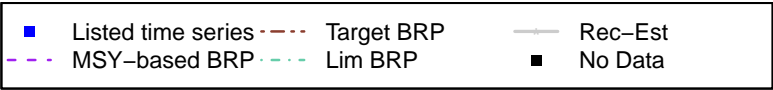
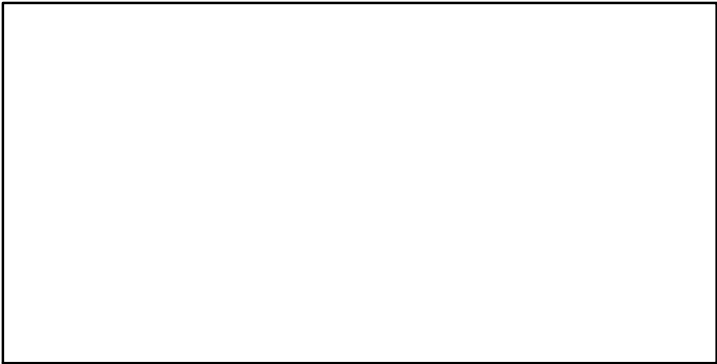
**F\***



**ER\***

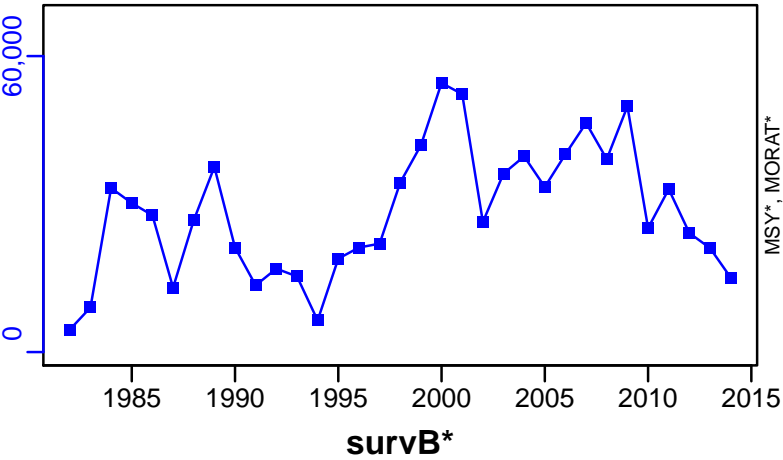


**Recruits\***



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

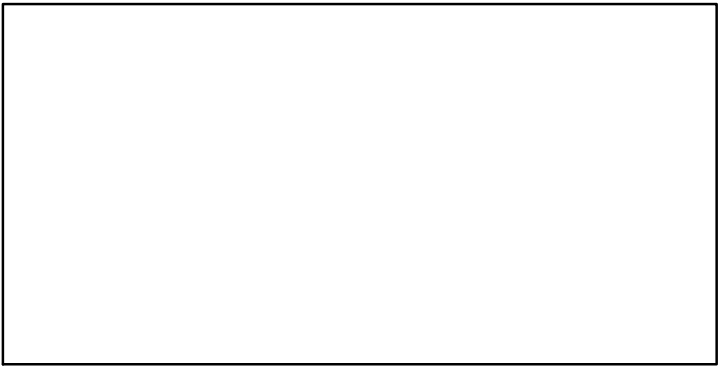
TL–MT, TC\*, RecC\* (1982–2015–ICESIMP2016)



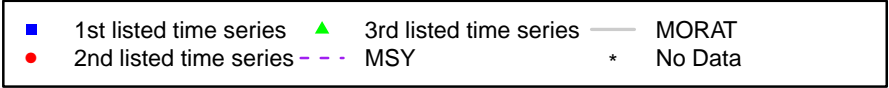
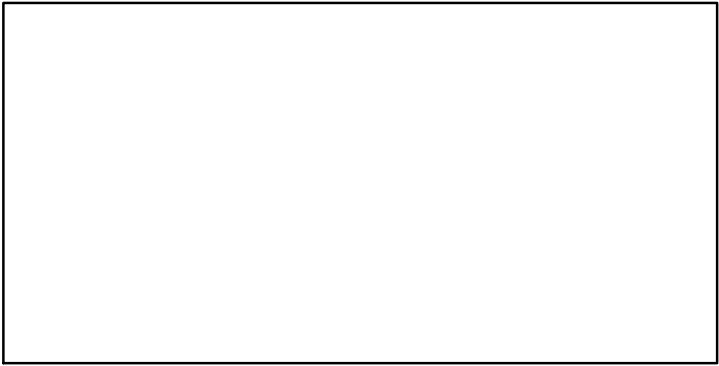
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Horse mackerel Portuguese Waters -East [HMACKIXa]

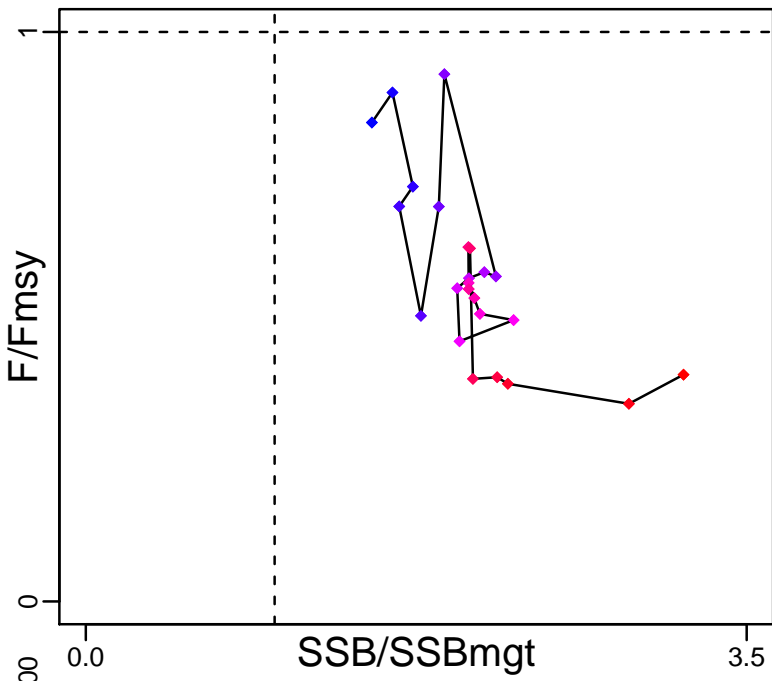
Metadata	
<b>Scientific Name</b>	Trachurus trachurus
<b>Current Assess ID</b>	WGHANSA-HMACKIXa-1992-2016-ICESIMP2016
<b>Area</b>	Portuguese Waters -East
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Southern Horse Mackerel, Anchovy and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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.11
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	181,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.11
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	103,000
<b>Flim</b>	Flim-1/yr	2016	0.19
<b>ERlim</b>	-	-	-

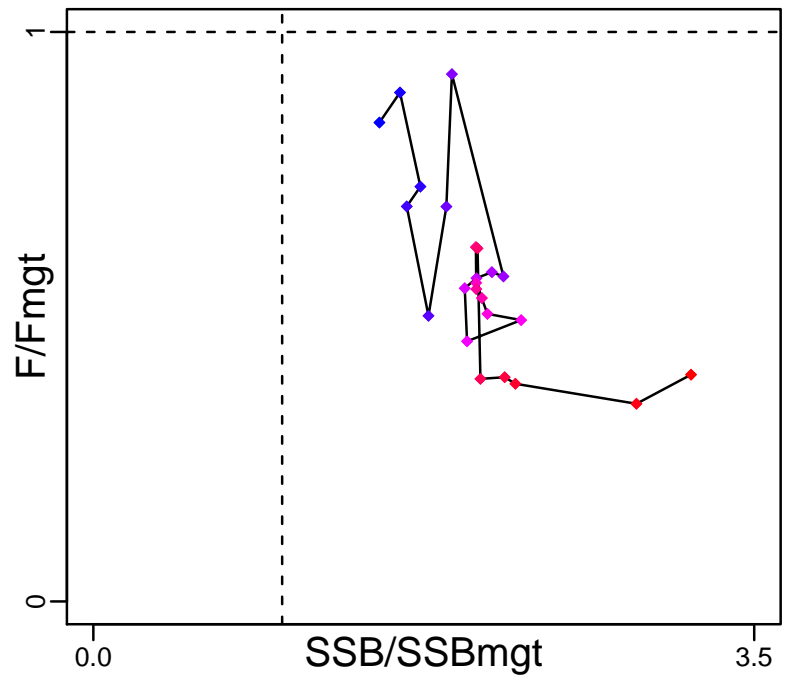
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2016	622,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$4.06 \times 10^9$	-	0
<b>F</b>	F-1/yr	2016	0.044	-	2 to 10
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2016	32,700		
<b>TL</b>	TL-MT	2016	32,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.398		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	3.434		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.398		
<b>ER/ERmgt</b>	-	-	-		

# Horse mackerel Portuguese Waters –East [HMACKIXa]

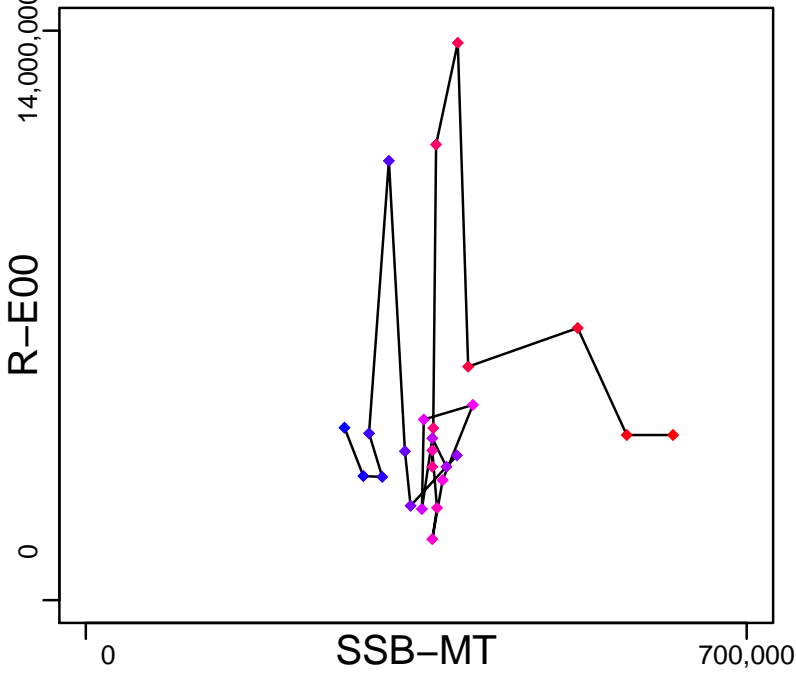
Kobe MSYpref (1992–2016–ICESIMP2016)



Kobe MGTpref (1992–2016–ICESIMP2016)



Spawner Recruit (1992–2016–ICESIMP2016)



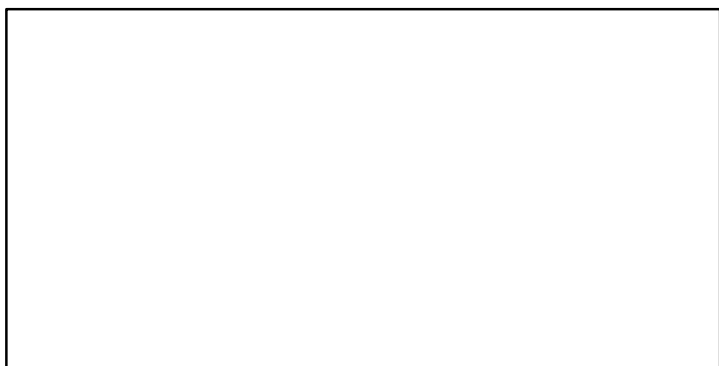
Production\*



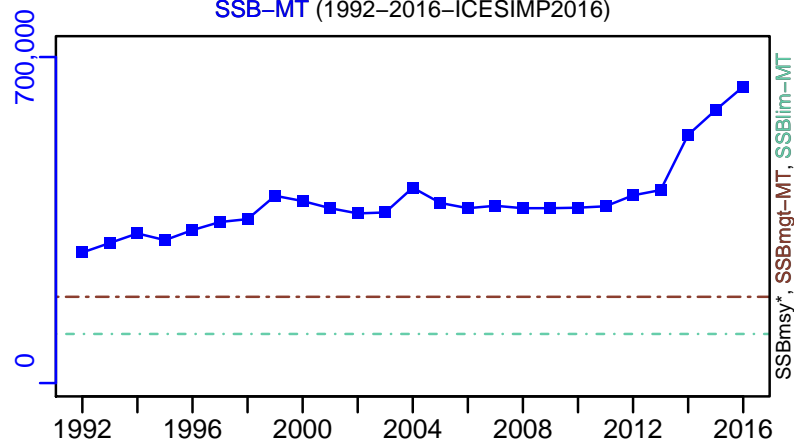
◆ Start Year ◆ End Year \* No Data

# Horse mackerel Portuguese Waters –East [HMAKIXa]

TB\*



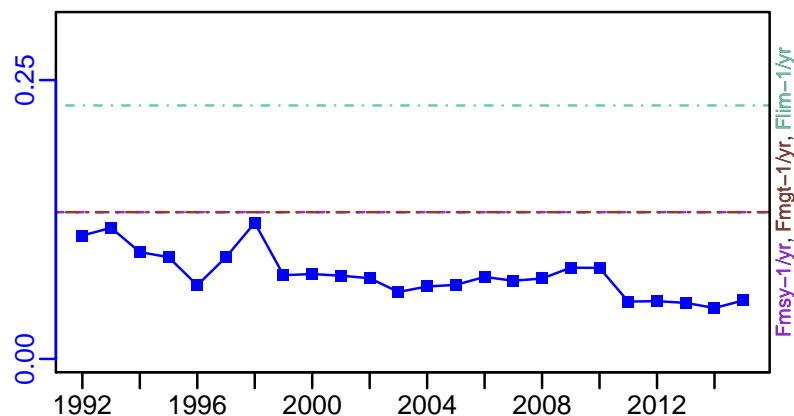
SSB-MT (1992–2016–ICESIMP2016)



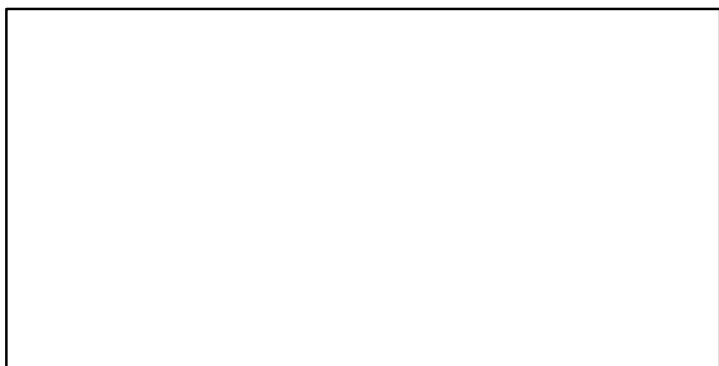
TN \*



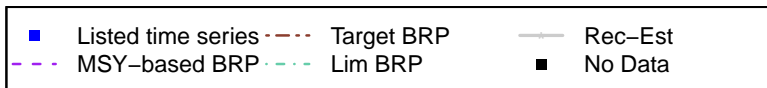
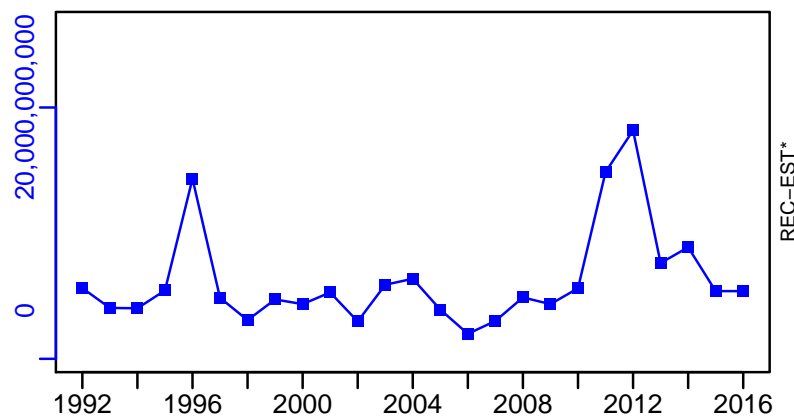
F-1/yr (1992–2016–ICESIMP2016)



ER\*

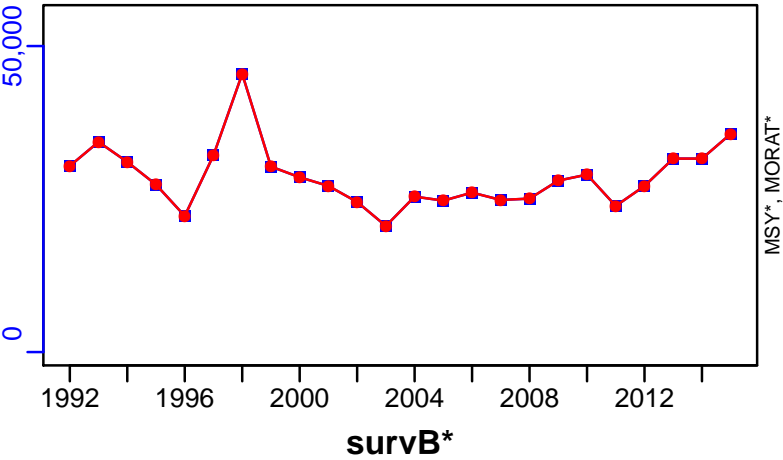


R-E00 (1992–2016–ICESIMP2016)



Horse mackerel Portuguese Waters –East [HMACKIXa]

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



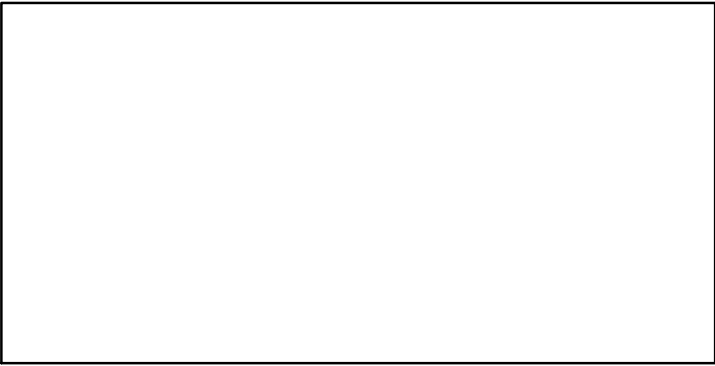
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Ling Iceland Grounds [LINGVa]

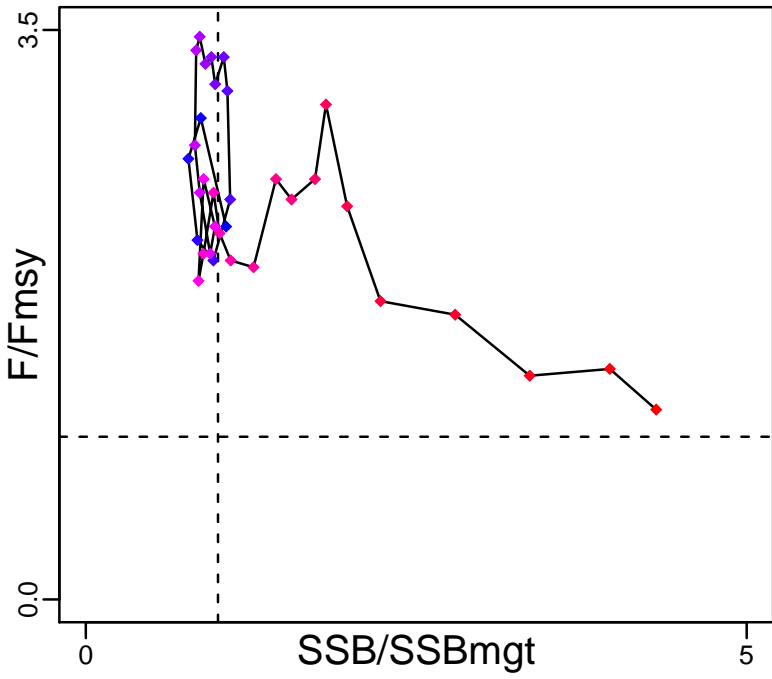
Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVa-1982-2016-ICESIMP2016
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.24
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	9500
<b>Fmgt</b>	Fmgt-1/yr	2016	0.24
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	8600
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

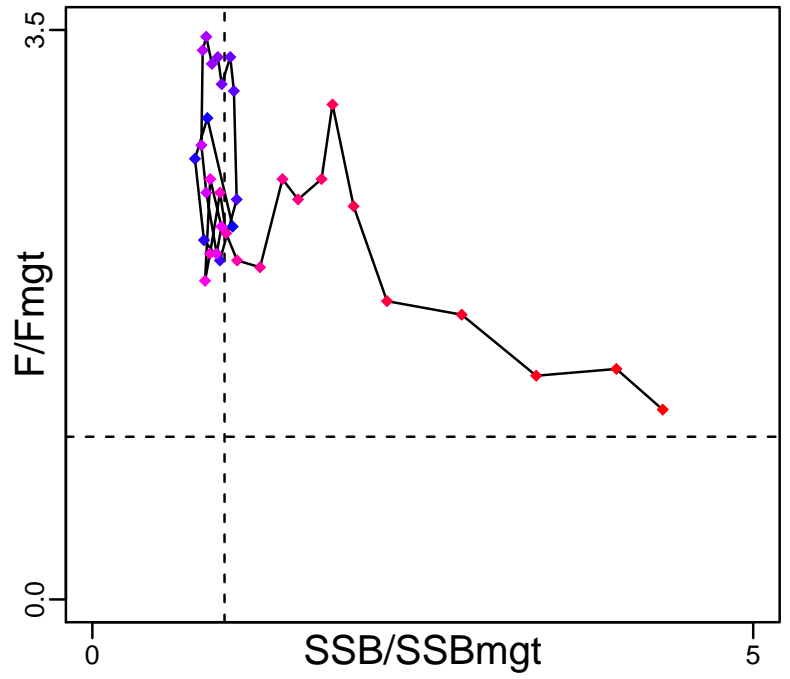
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	56,100	Both	-
<b>SSB</b>	SSB-MT	2016	42,600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,480,000	-	-
<b>F</b>	F-1/yr	2016	0.28	-	-
<b>ER</b>	ER-calc-ratio	2016	0.219	-	-
<b>TC</b>	TC-MT	2016	12,900		
<b>TL</b>	TL-MT	2014	11,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.167		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	4.484		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.167		
<b>ER/ERmgt</b>	-	-	-		

# Ling Iceland Grounds [LINGVa]

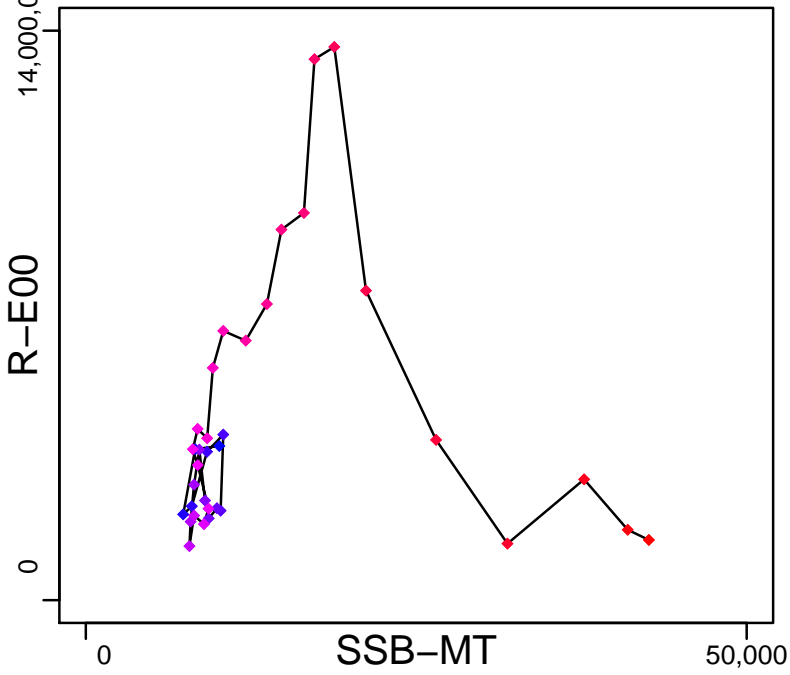
Kobe MSYpref (1982–2016–ICESIMP2016)



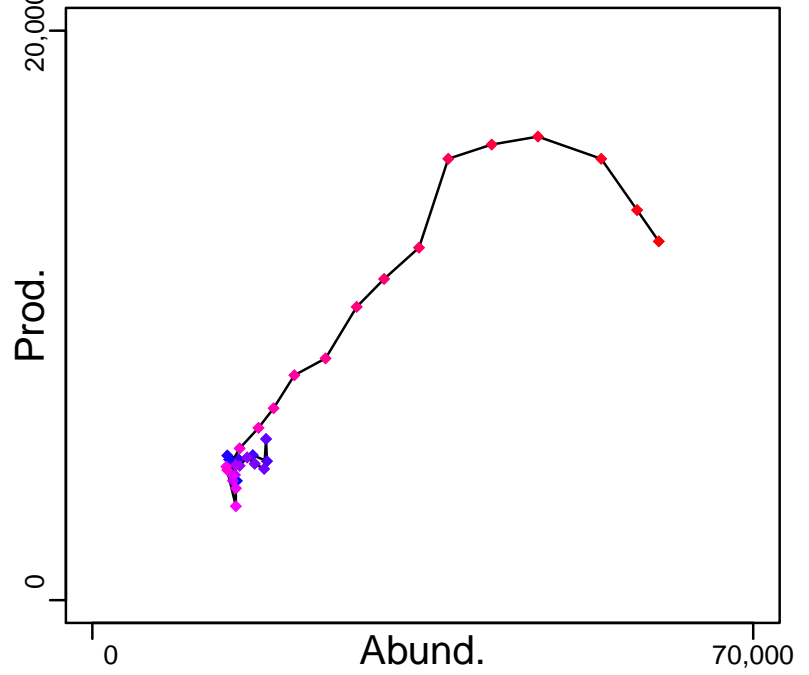
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



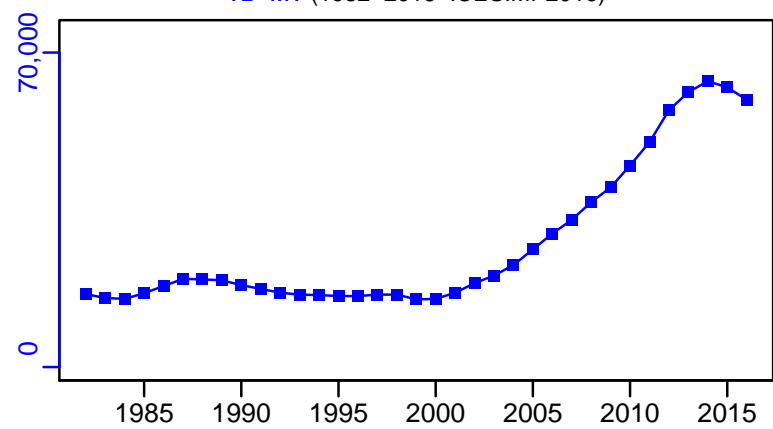
Production (1982–2016–ICESIMP2016)



◆ Start Year ◆ End Year \* No Data

# Ling Iceland Grounds [LINGVa]

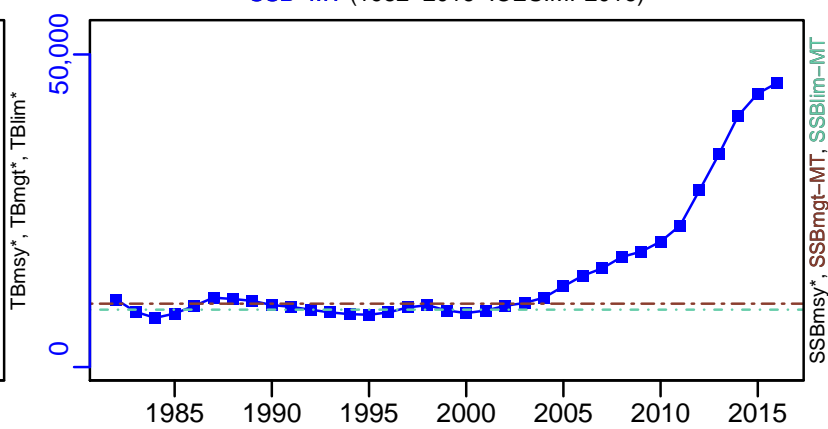
TB-MT (1982–2016–ICESIMP2016)



TN \*

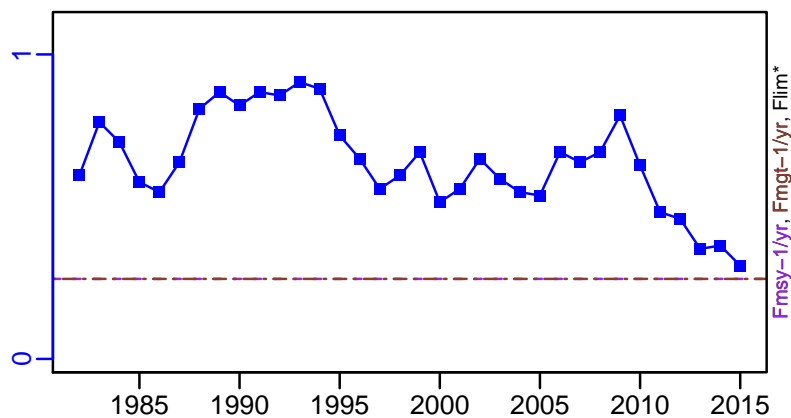


SSB-MT (1982–2016–ICESIMP2016)



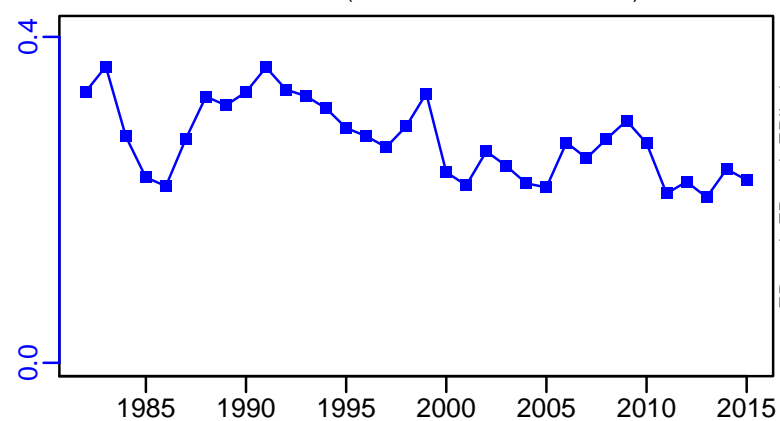
SSBmsy\*, SSBmgt-MT, SSBlim-MT

F-1/yr (1982–2016–ICESIMP2016)

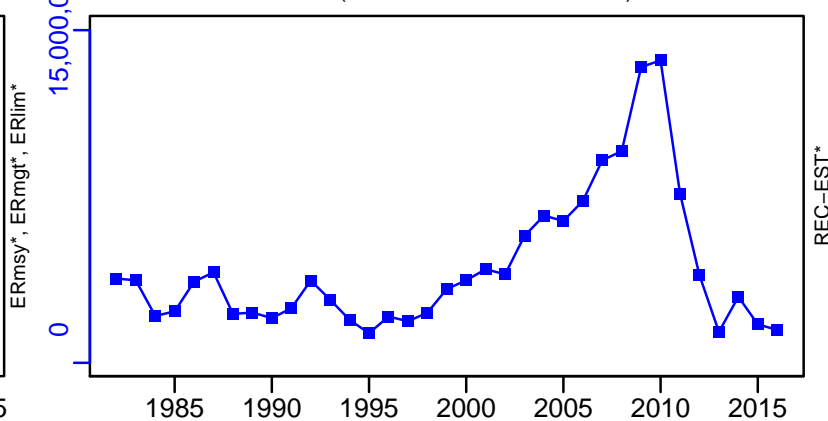


Fmsy-1/yr, Fmgt-1/yr, Flim\*

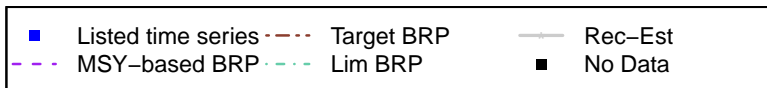
ER-calc-ratio (1982–2016–ICESIMP2016)



R-E00 (1982–2016–ICESIMP2016)

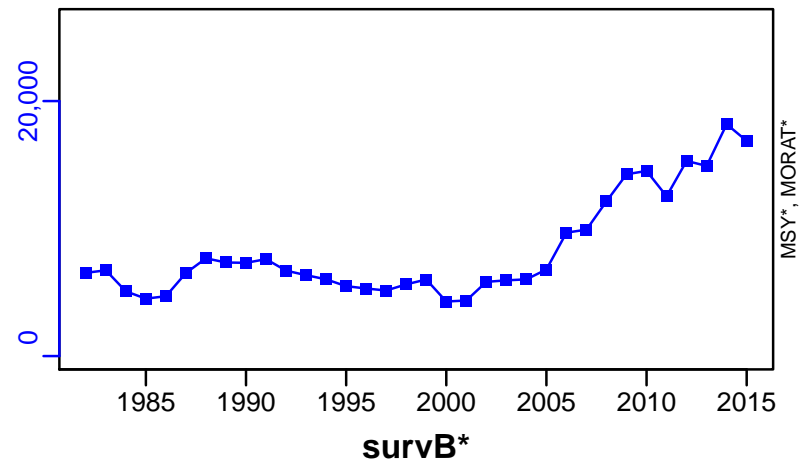


REC-EST\*



# Ling Iceland Grounds [LINGVa]

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



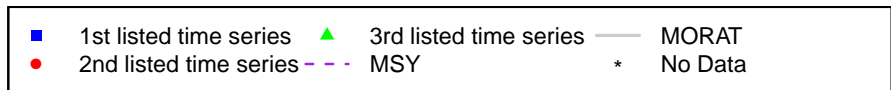
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Mackerel ICES Northeast Atlantic [MACKNEICES]

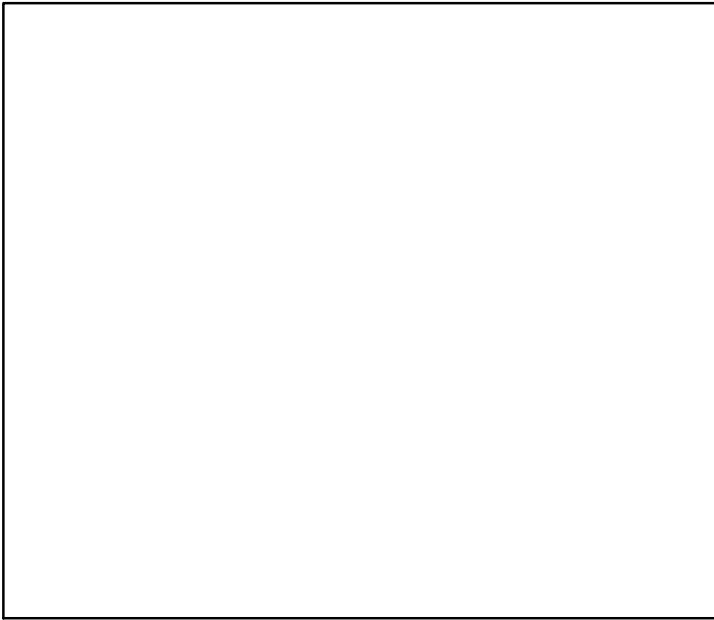
Metadata	
<b>Scientific Name</b>	Scomber scombrus
<b>Current Assess ID</b>	WGWISE-MACKNEICES-1980-2014-ICESIMP2016
<b>Area</b>	Ila-IIIabd-IV-Vb-VI-VII-VIIIabcde-XII-XIV-Ixa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2014	0.25
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.25
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2007	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	1,840,000
<b>Flim</b>	Flim-1/yr	2014	0.39
<b>ERlim</b>	-	-	-

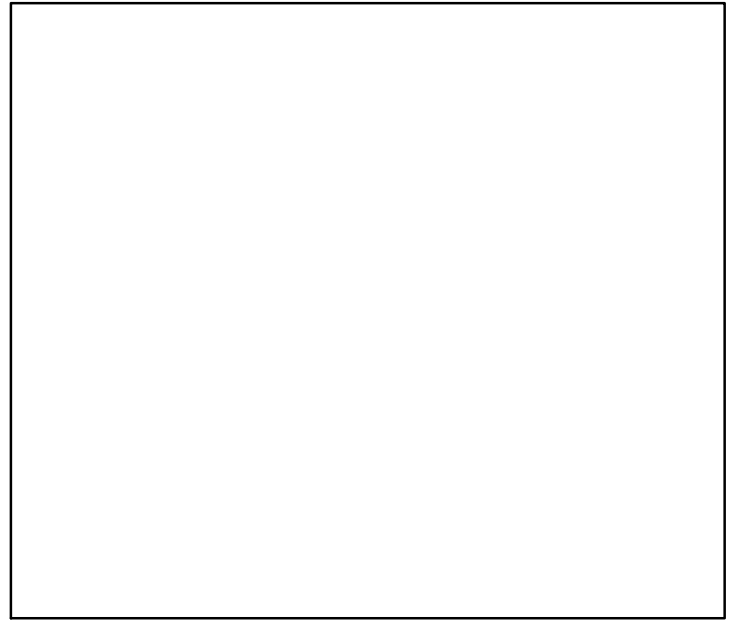
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	5,610,000	Both	-
<b>SSB</b>	SSB-MT	2014	4,420,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$4.27 \times 10^9$	-	0
<b>F</b>	F-1/yr	2014	0.217	-	4 to 8
<b>ER</b>	ER-calc-ratio	2014	0.166	-	-
<b>TC</b>	TC-MT	2014	932,000		
<b>TL</b>	TL-MT	2014	927,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	0.868		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.868		
<b>ER/ERmgt</b>	-	-	-		

Mackerel ICES Northeast Atlantic [MACKNEICES]

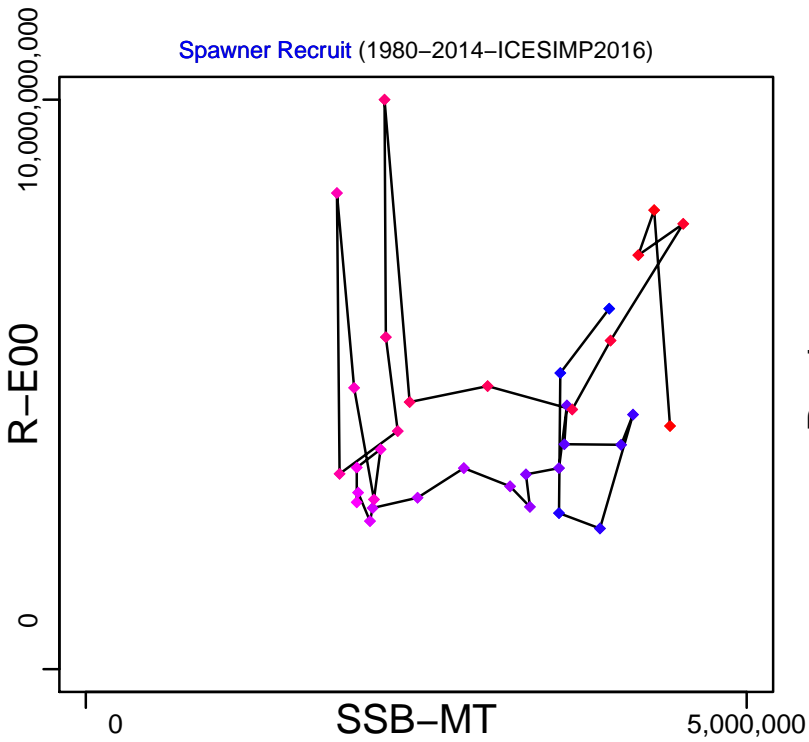
Kobe MSY\*



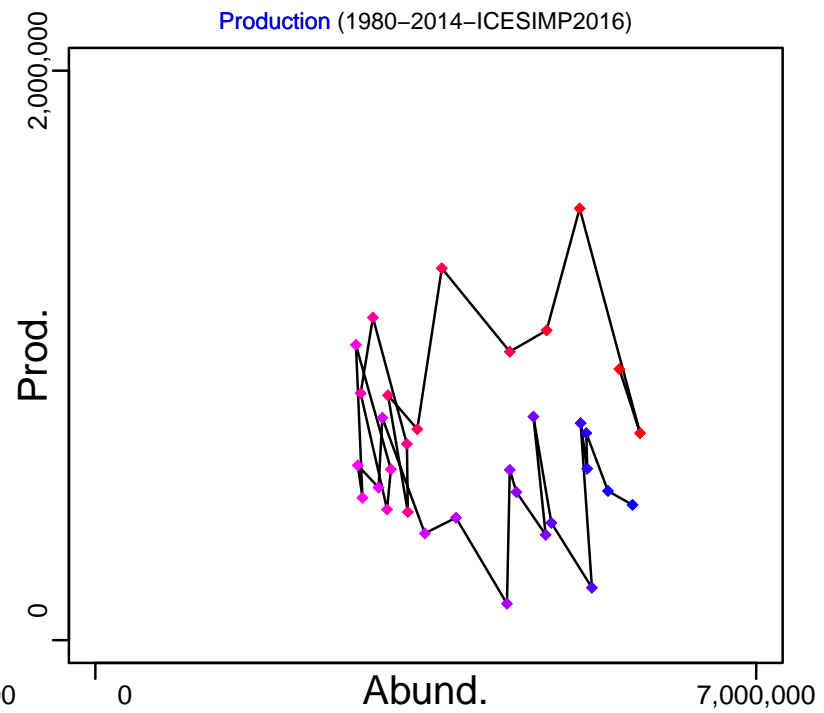
Kobe MGT\*



Spawner Recruit (1980–2014–ICESIMP2016)



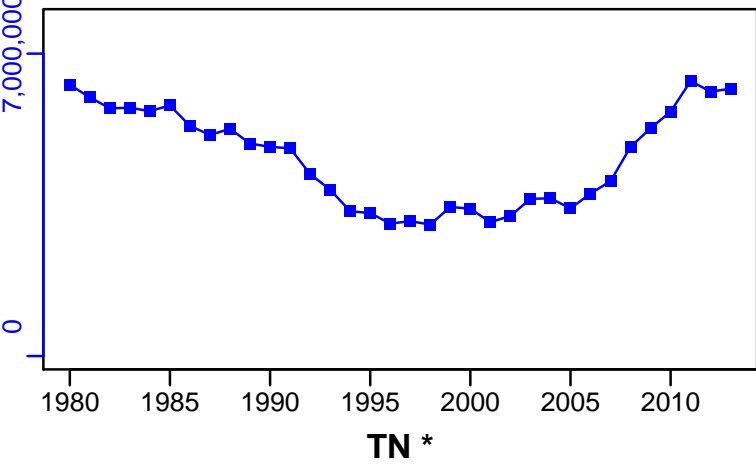
Production (1980–2014–ICESIMP2016)



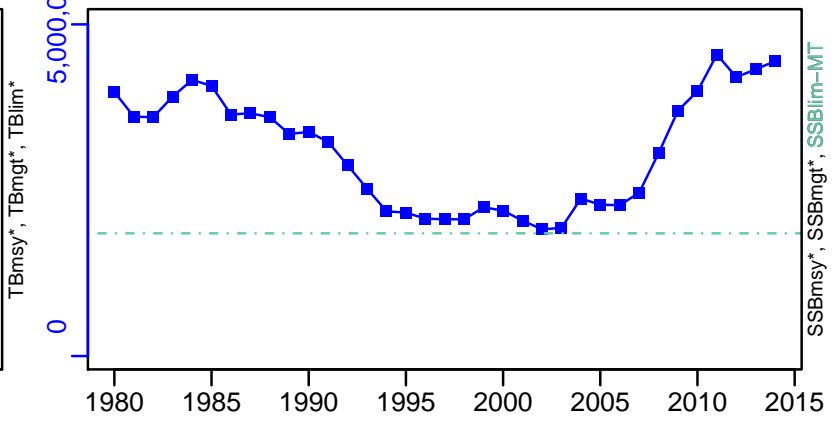
◆ Start Year ◆ End Year \* No Data

# Mackerel ICES Northeast Atlantic [MACKNEICES]

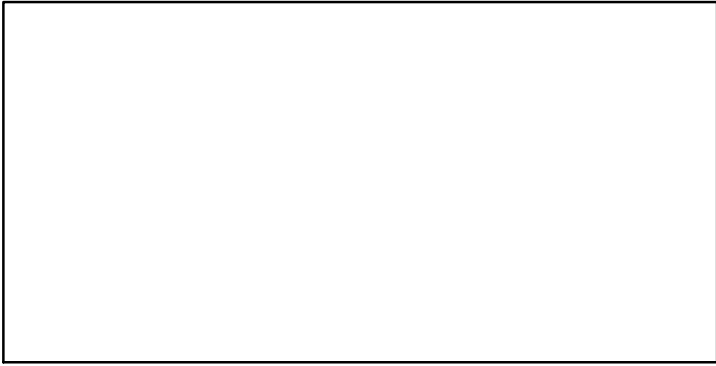
TB-MT (1980-2014-ICESIMP2016)



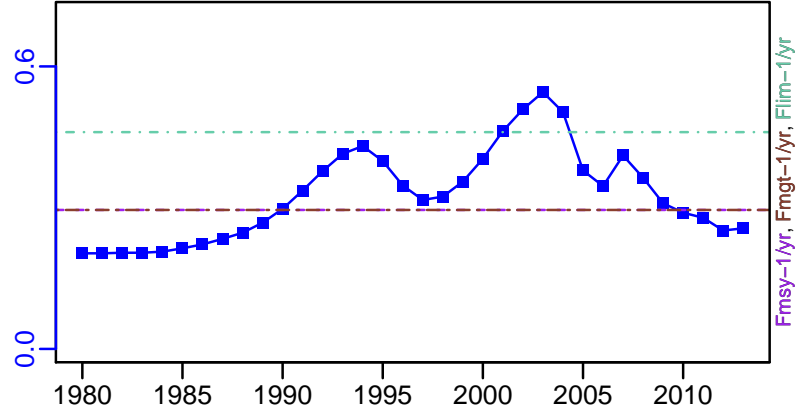
SSB-MT (1980-2014-ICESIMP2016)



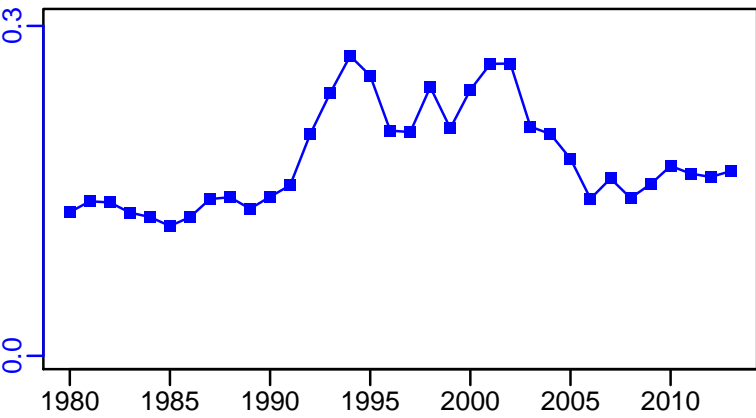
TN \*



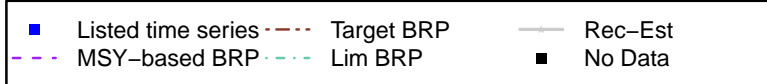
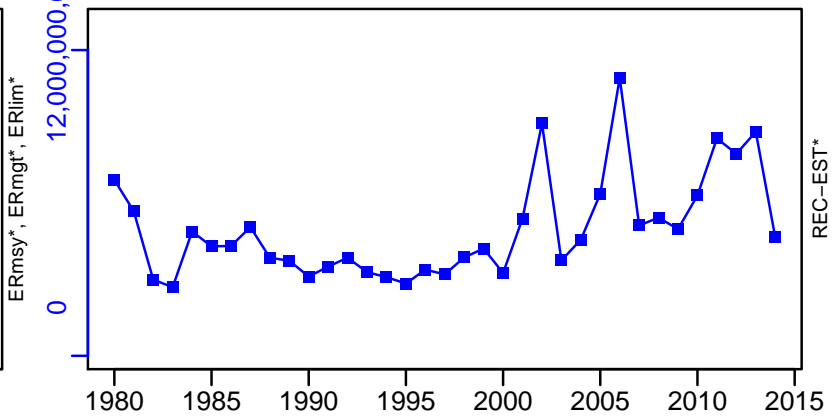
F-1/yr (1980-2014-ICESIMP2016)



ER-calc-ratio (1980-2014-ICESIMP2016)

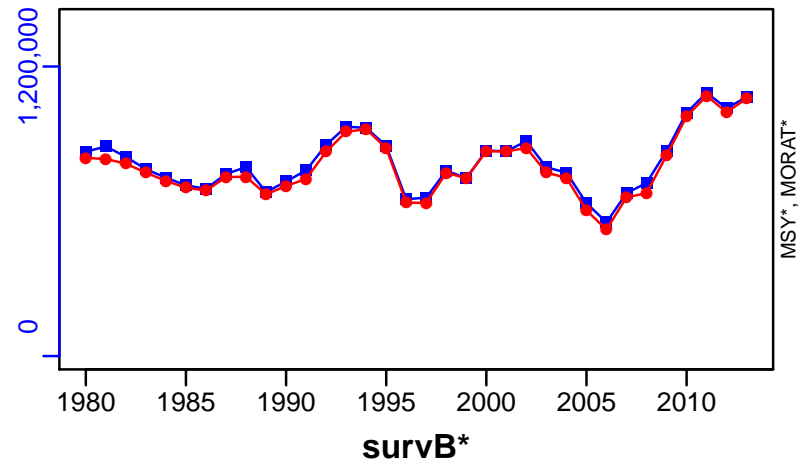


R-E00 (1980-2014-ICESIMP2016)



# Mackerel ICES Northeast Atlantic [MACKNEICES]

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



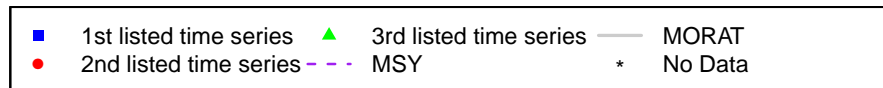
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Megrim ICES VIIIc-IXa [MEG8c9a]

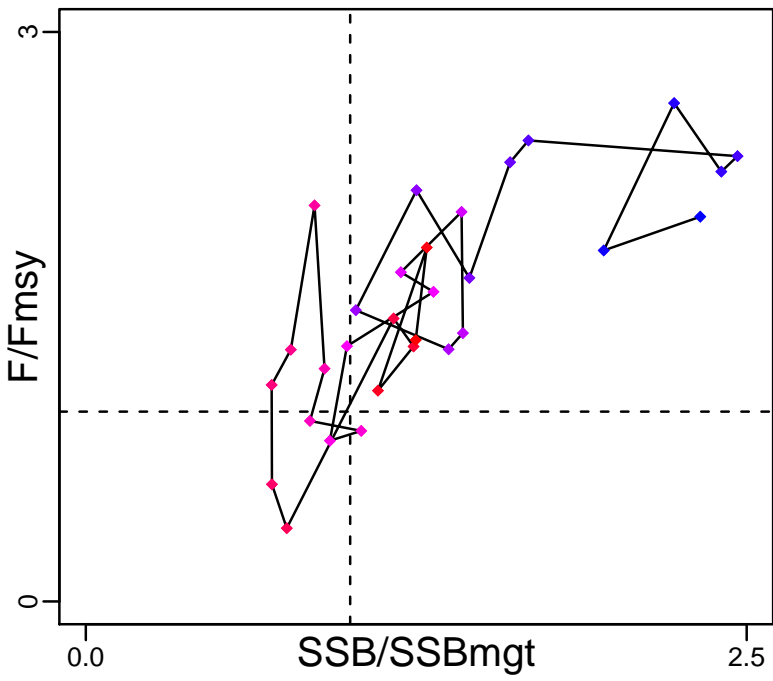
Metadata	
<b>Scientific Name</b>	Lepidorhombus whiffiagonis
<b>Current Assess ID</b>	WGBIE-MEG8c9a-1985-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion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

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

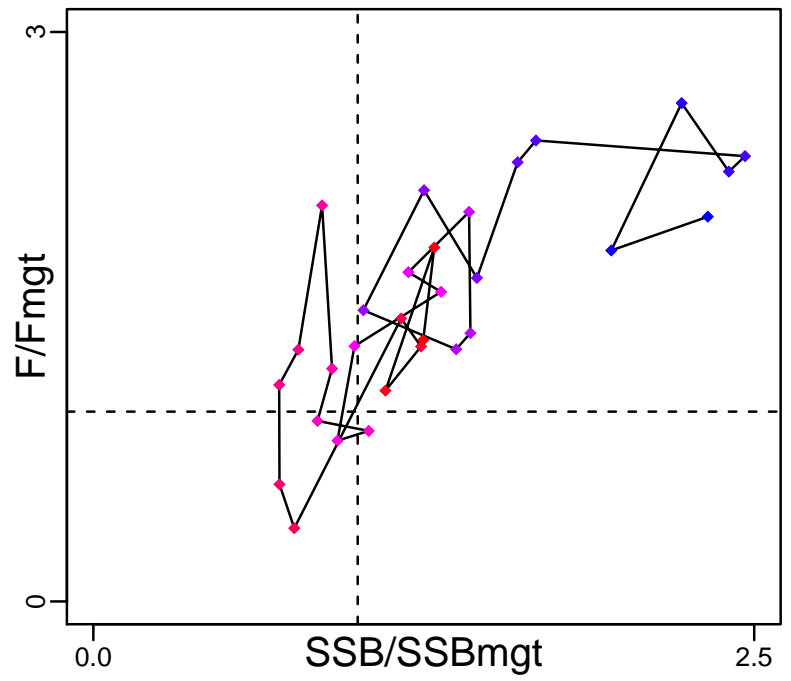
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1480	Both	-
<b>SSB</b>	SSB-MT	2016	1090	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	3,300,000	-	1
<b>F</b>	F-1/yr	2016	0.262	-	2 to 4
<b>ER</b>	ER-calc-ratio	2016	0.2	-	-
<b>TC</b>	TC-MT	2016	297		
<b>TL</b>	TL-MT	2016	276		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.377		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.107		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.377		
<b>ER/ERmgt</b>	-	-	-		

Megrim ICES VIIIc-IXa [MEG8c9a]

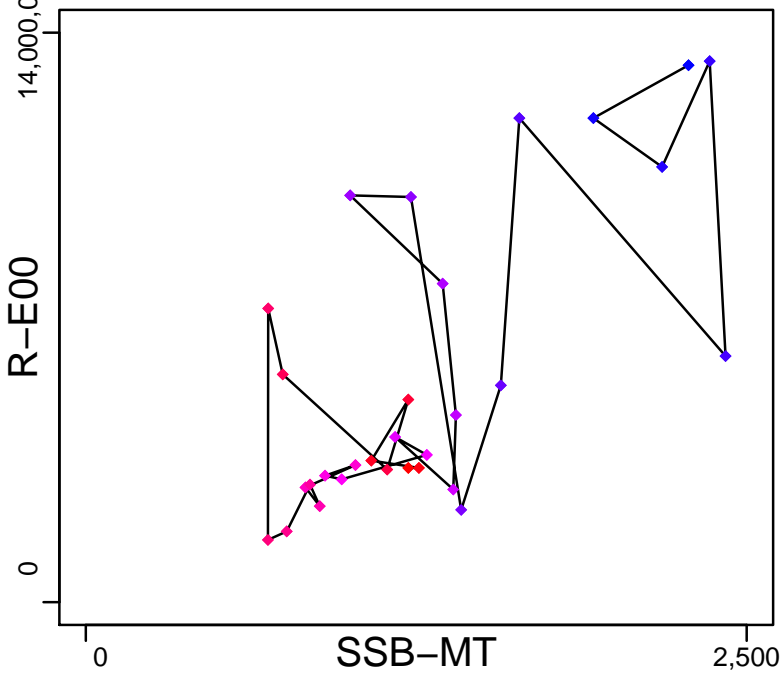
Kobe MSYpref (1985–2016–ICESIMP2016)



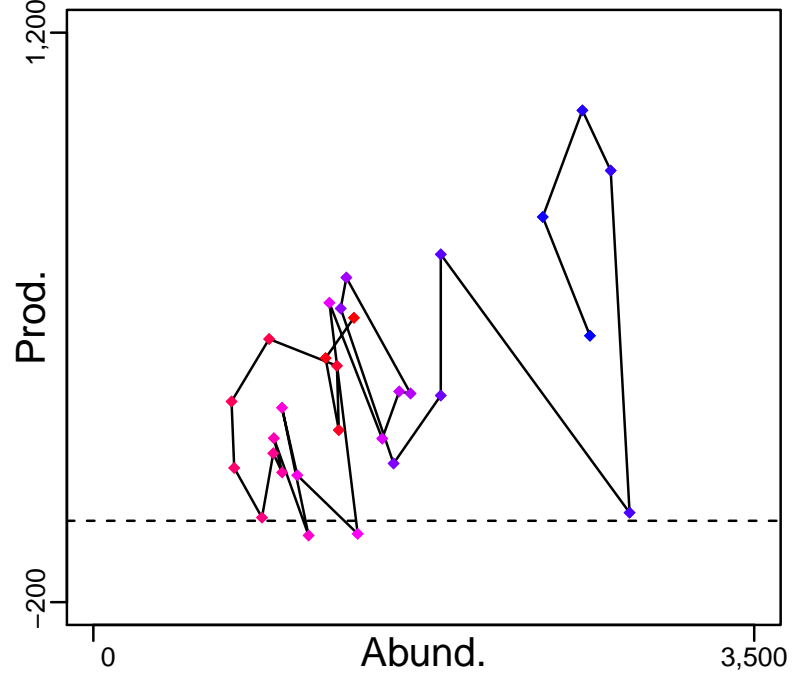
Kobe MGTpref (1985–2016–ICESIMP2016)



Spawner Recruit (1985–2016–ICESIMP2016)



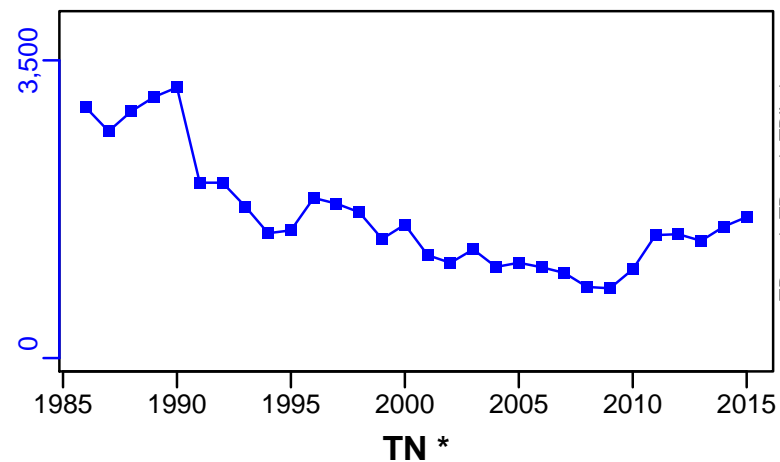
Production (1985–2016–ICESIMP2016)



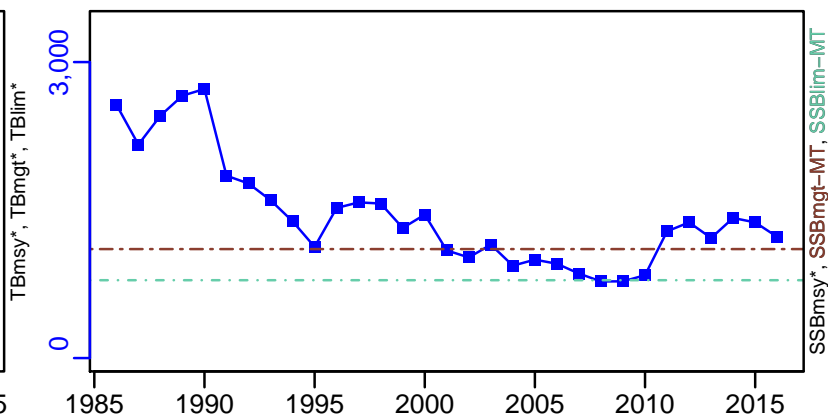
◆ Start Year ◆ End Year \* No Data

# Megrim ICES VIIIc-IXa [MEG8c9a]

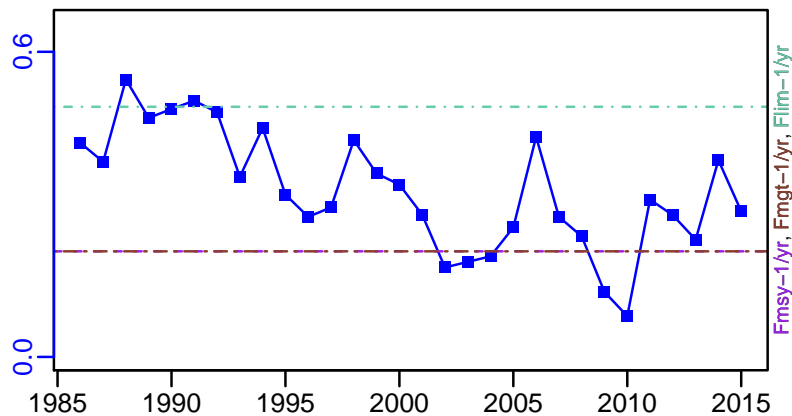
TB-MT (1985–2016–ICESIMP2016)



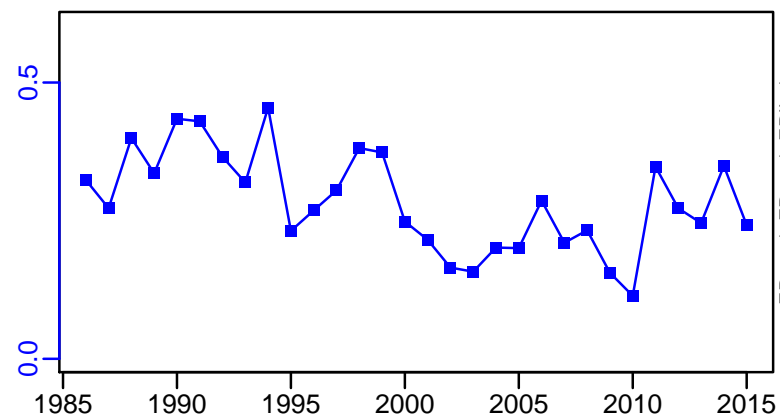
SSB-MT (1985–2016–ICESIMP2016)



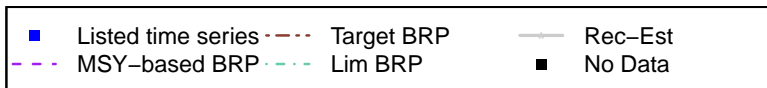
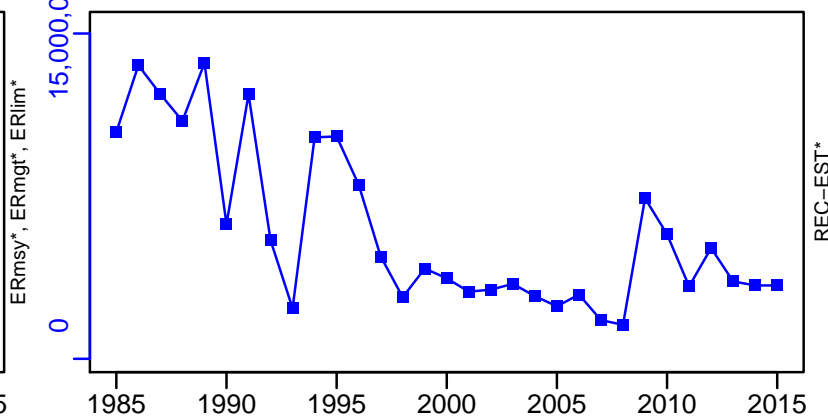
F-1/yr (1985–2016–ICESIMP2016)



ER-calc-ratio (1985–2016–ICESIMP2016)

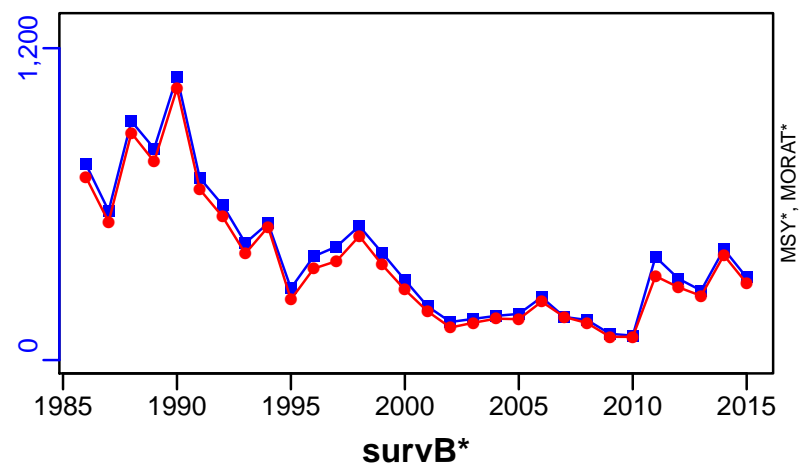


R-E00 (1985–2016–ICESIMP2016)

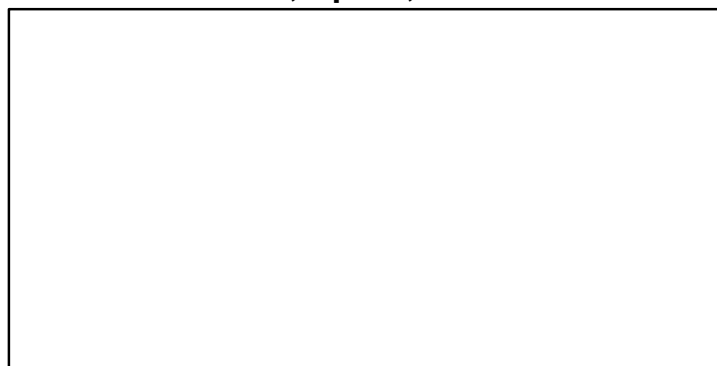


Megrim ICES VIIIc-IXa [MEG8c9a]

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



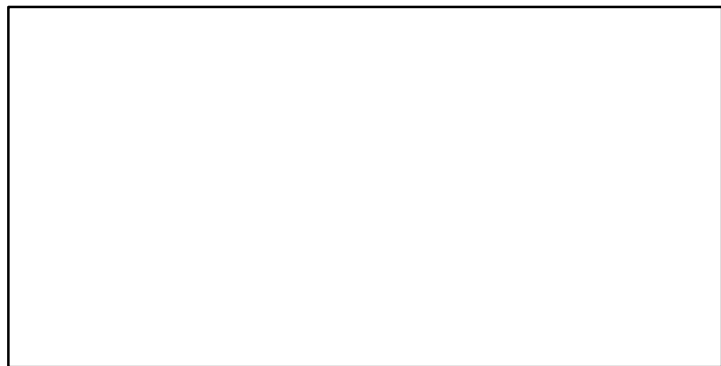
TAC\*, Cpair\*, Cadv\*



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]

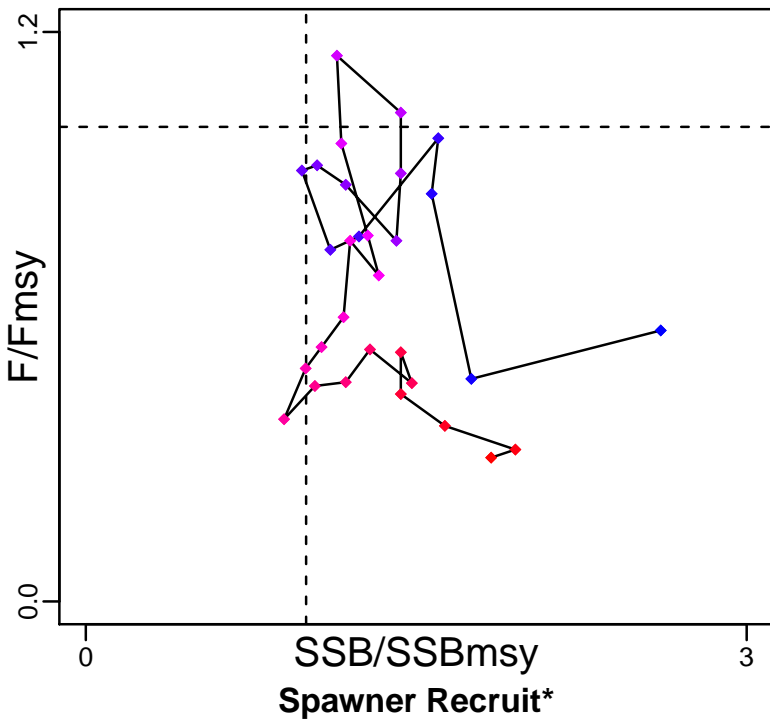
Metadata	
<b>Scientific Name</b>	Lepidorhombus spp.
<b>Current Assess ID</b>	WGCSE-MEGSPPIVa-VIa-1985-2015-ICESIMP2016
<b>Area</b>	IVa and VIa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2012,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

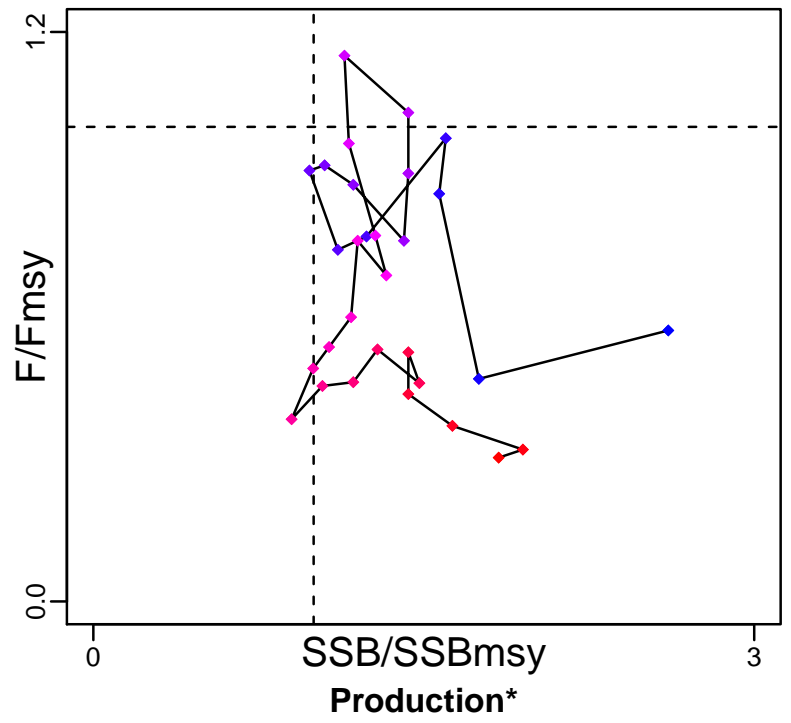
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	2810		
TL	TL-MT	2015	2500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2015	1.84		
F/Fmsy	FdivFmsy-dimensionless	2015	0.303		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

Kobe MSYpref (1985–2015–ICESIMP2016)



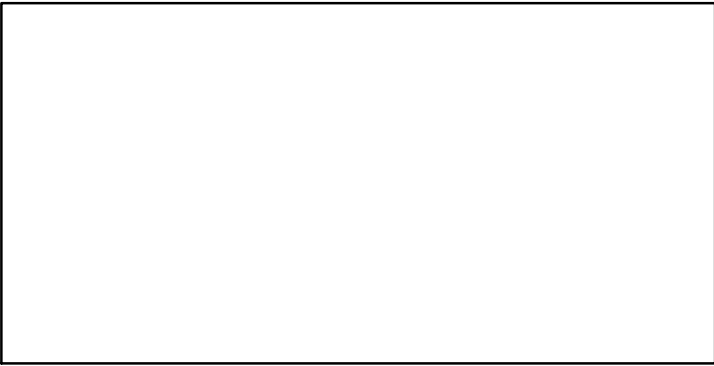
Kobe MGTpref (1985–2015–ICESIMP2016)



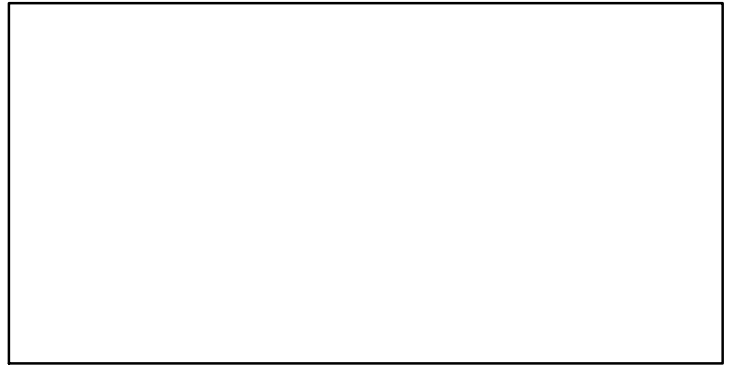
◆ Start Year ◆ End Year \* No Data

Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

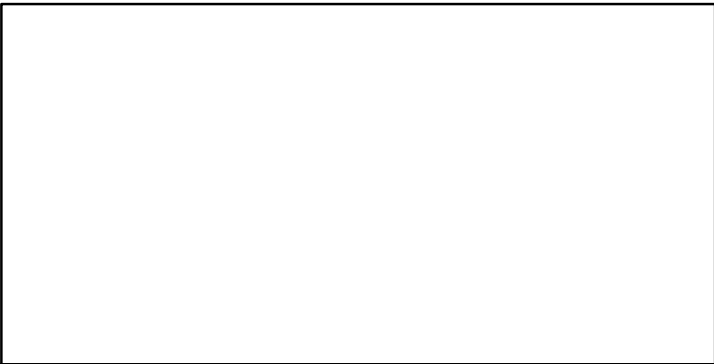
**TB\***



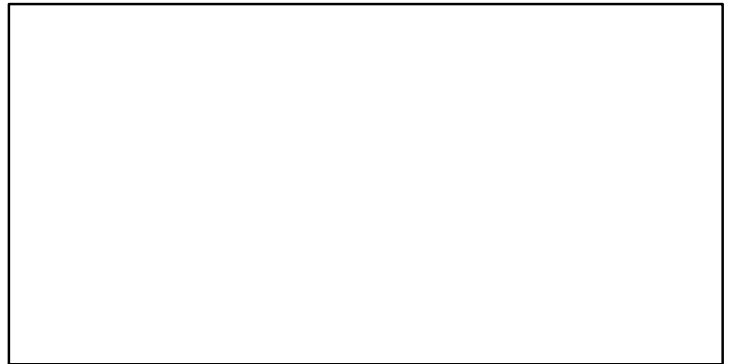
**SSB\***



**TN \***



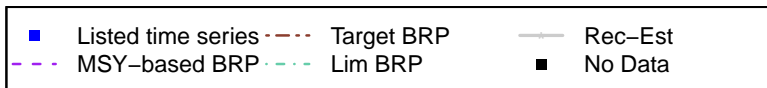
**F\***



**ER\***



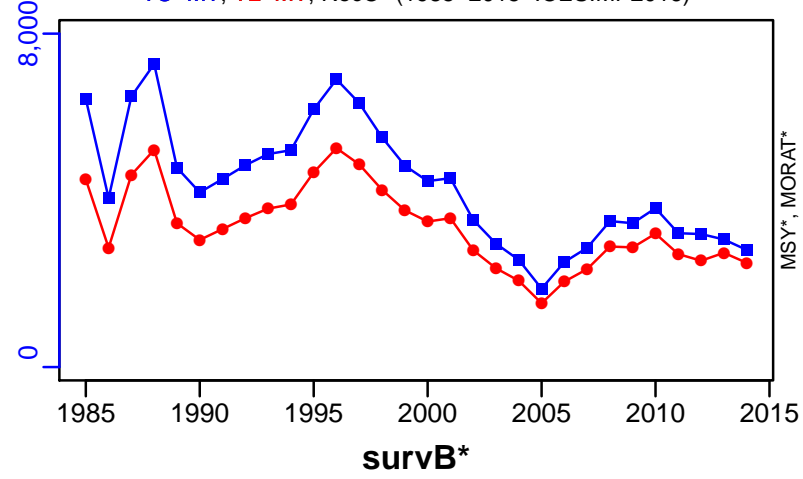
**Recruits\***



Megrim spp. IVa and VIa [MEGSPPIVa-VIa]

TC-MT, TL-MT, RecC\* (1985–2015–ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



MSY\*, MORAT\*

survB\*

CPUE\*

EFFORT\*

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



## Megrim VII-VIIIabd [MEGVII-VIIIabd]

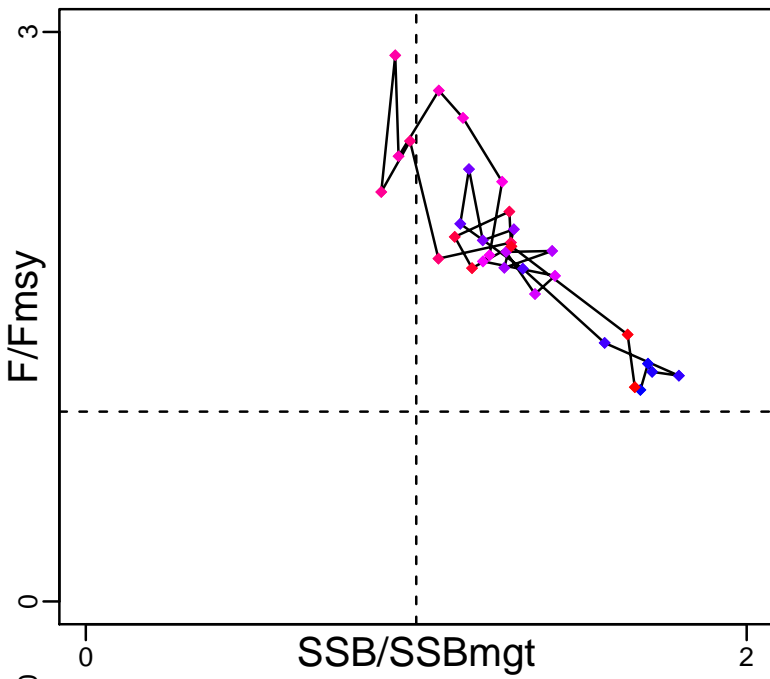
Metadata	
<b>Scientific Name</b>	Lepidorhombus whiffiagonis
<b>Current Assess ID</b>	WGBIE-MEGVII-VIIIabd-1983-2016-ICESIMP2016
<b>Area</b>	VII and VIIIabd
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.191
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	41,800
<b>Fmgt</b>	Fmgt-1/yr	2016	0.191
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	37,100
<b>Flim</b>	Flim-1/yr	2016	0.53
<b>ERlim</b>	-	-	-

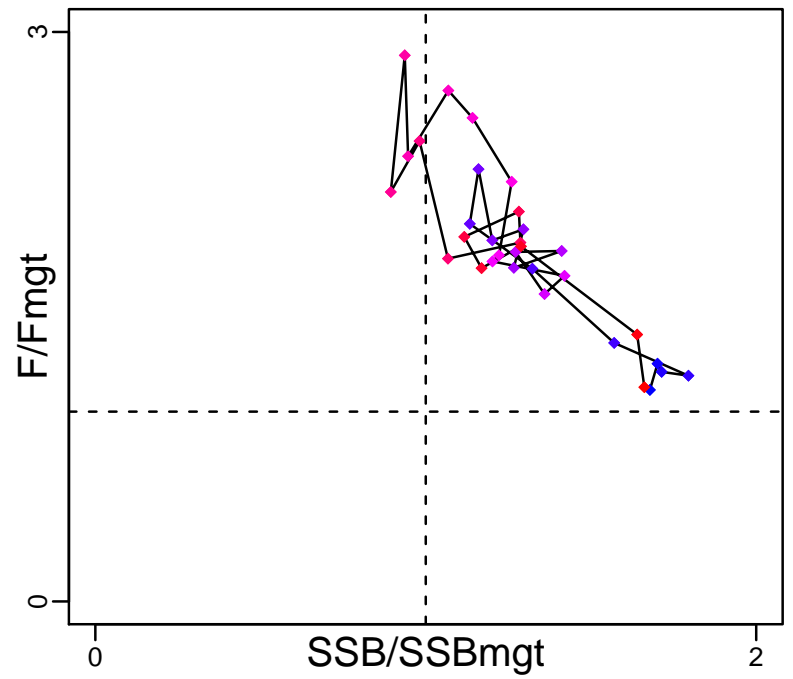
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	93,500	Both	-
<b>SSB</b>	SSB-MT	2016	80,600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$2.35 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.216	-	3 to 6
<b>ER</b>	ER-calc-ratio	2016	0.14	-	-
<b>TC</b>	TC-MT	2016	13,100		
<b>TL</b>	TL-MT	2016	11,600		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.129		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.929		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.129		
<b>ER/ERmgt</b>	-	-	-		

# Megrim VII–VIIIabd [MEGVII–VIIIabd]

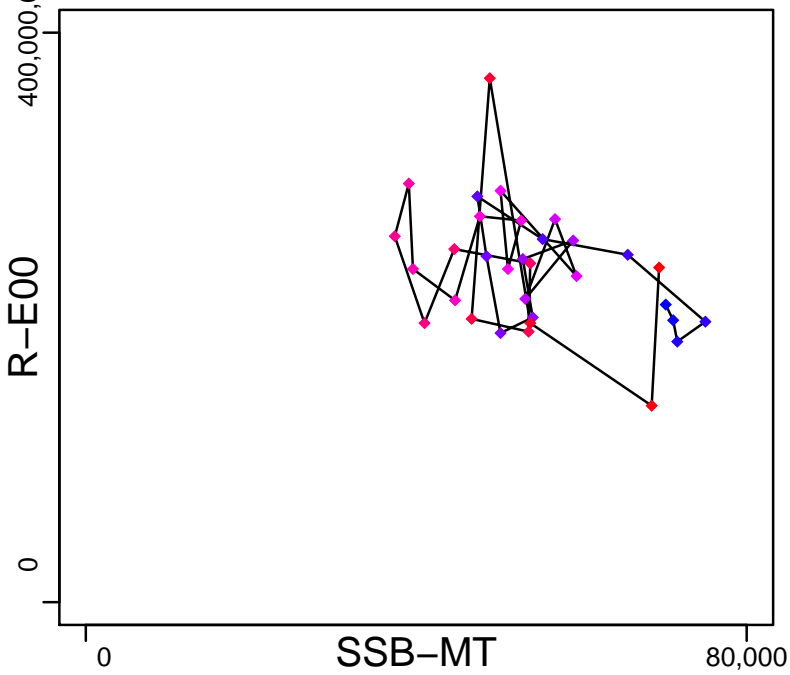
Kobe MSYpref (1983–2016–ICESIMP2016)



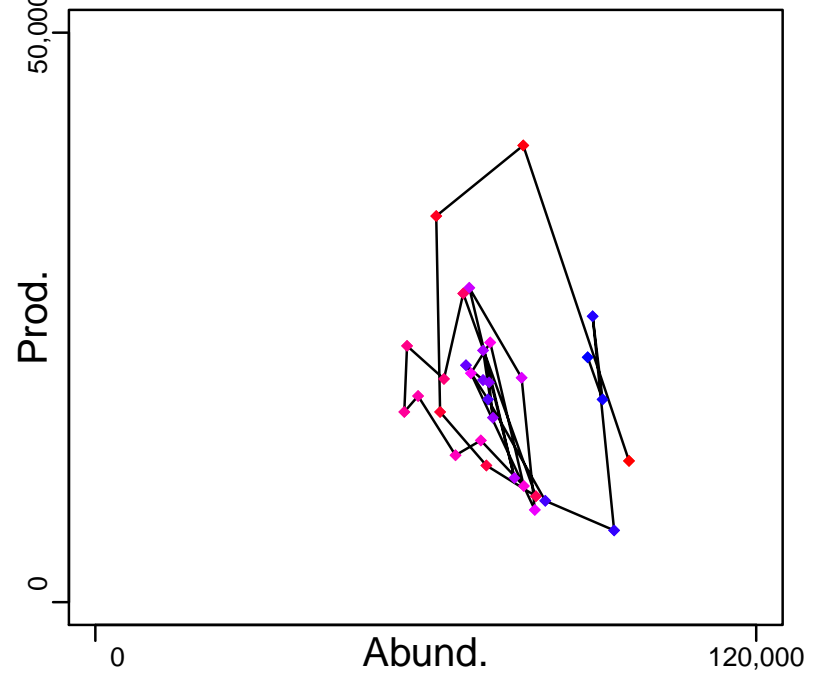
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)



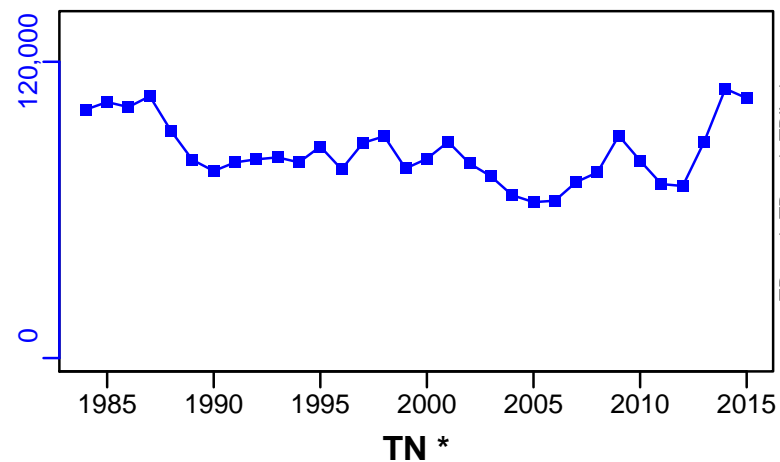
Production (1983–2016–ICESIMP2016)



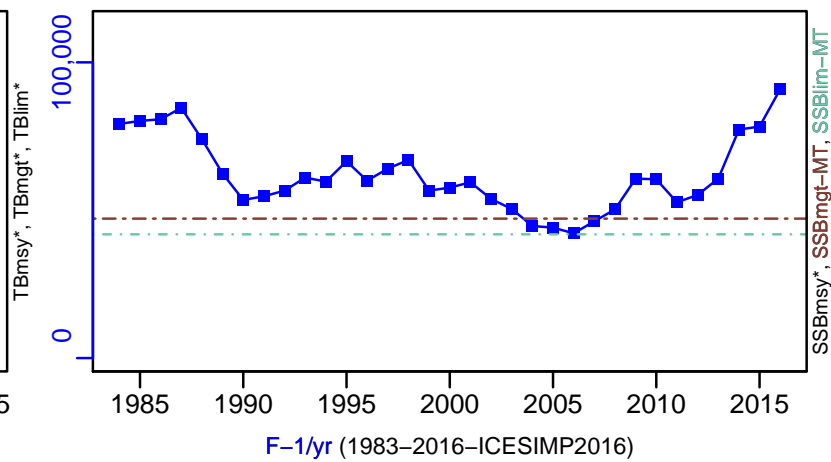
◆ Start Year ◆ End Year \* No Data

# Megrim VII-VIIIabd [MEGVII-VIIIabd]

TB-MT (1983-2016-ICESIMP2016)



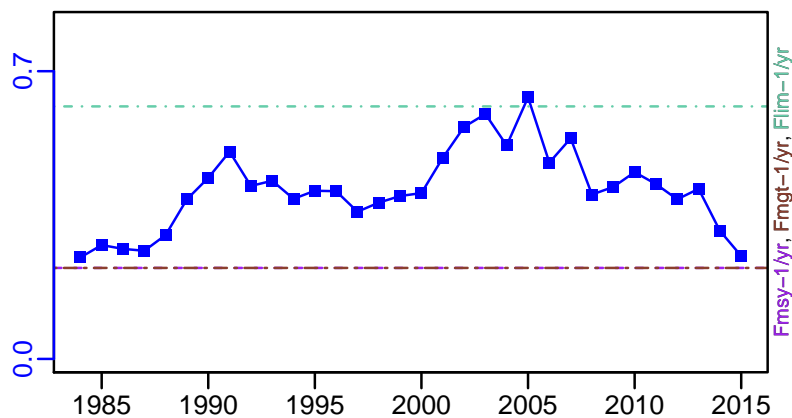
SSB-MT (1983-2016-ICESIMP2016)



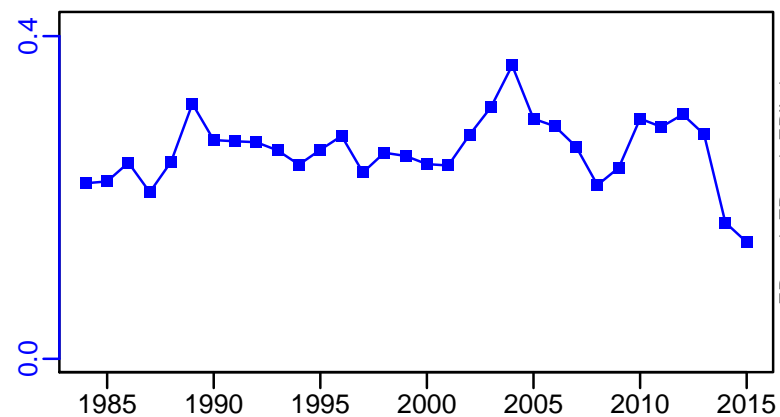
TN \*



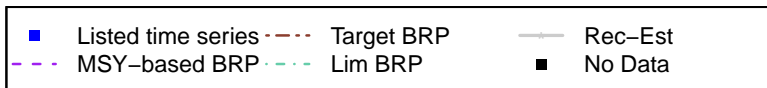
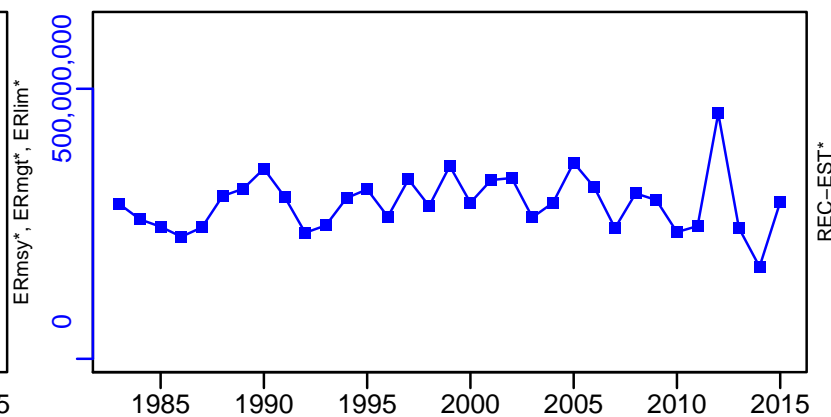
F-1/yr (1983-2016-ICESIMP2016)



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



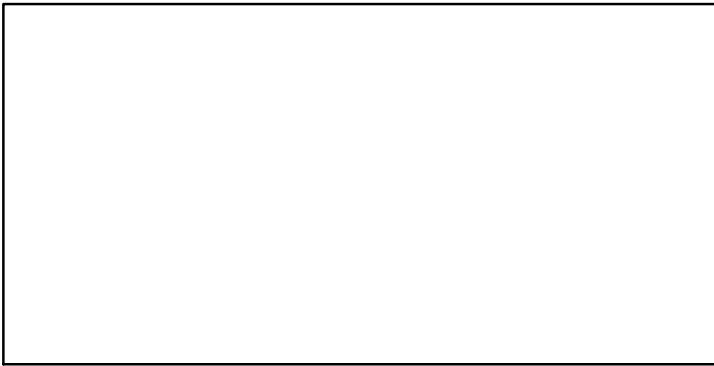
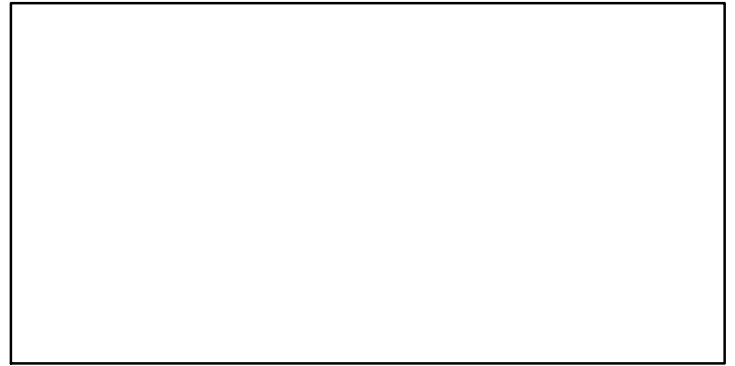
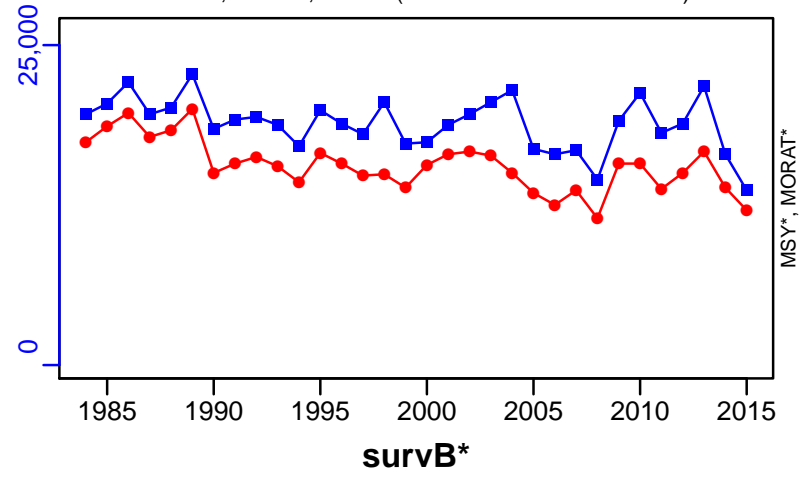
R-E00 (1983-2016-ICESIMP2016)



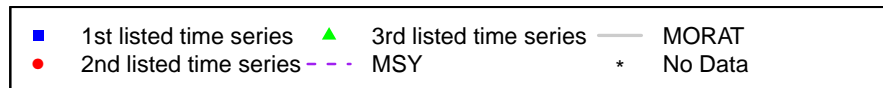
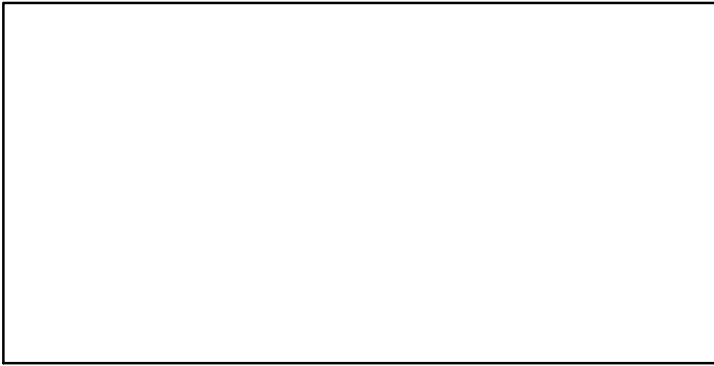
# Megrin VII–VIIIabd [MEGVII–VIIIabd]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



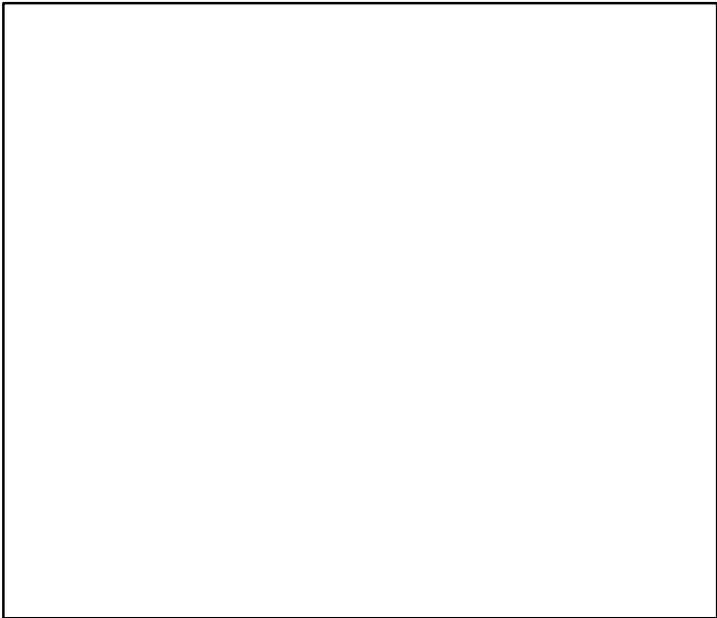
## Norway lobster Noup (FU 10) [NEPHFU10]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU10-1981-2016-ICESIMP2016
<b>Area</b>	Noup (FU 10)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016

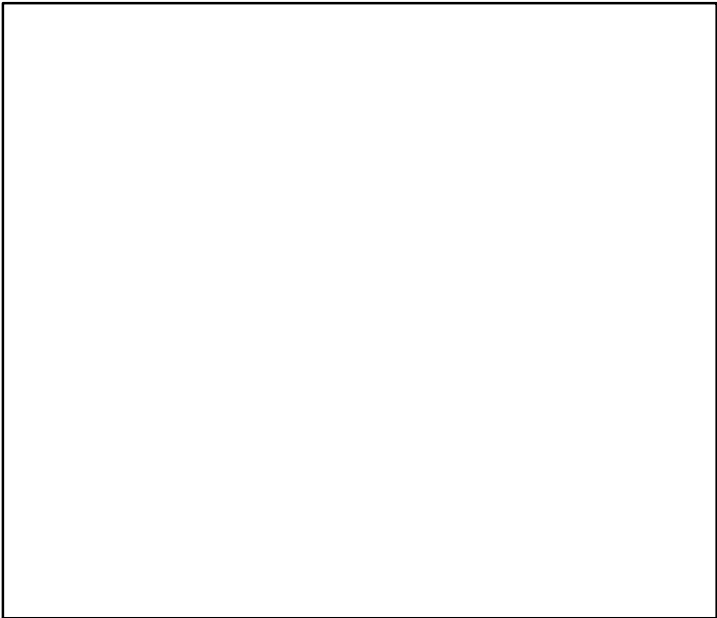
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

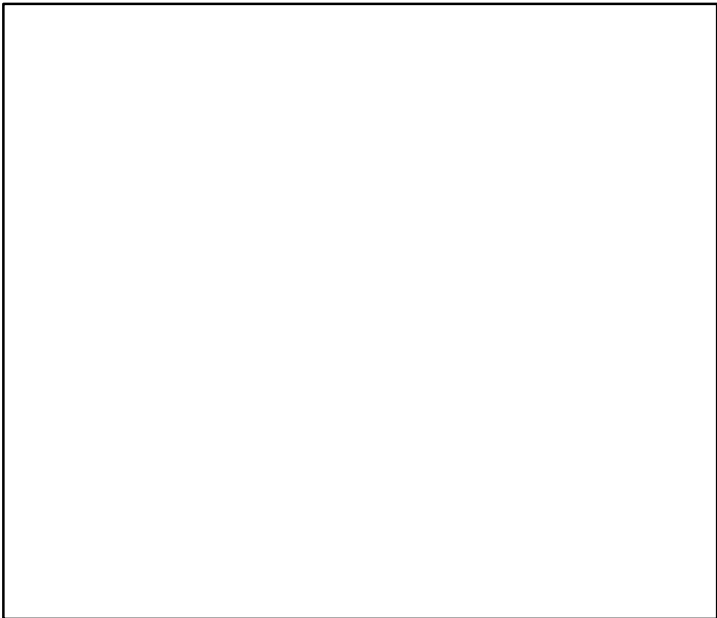
Kobe MSY\*



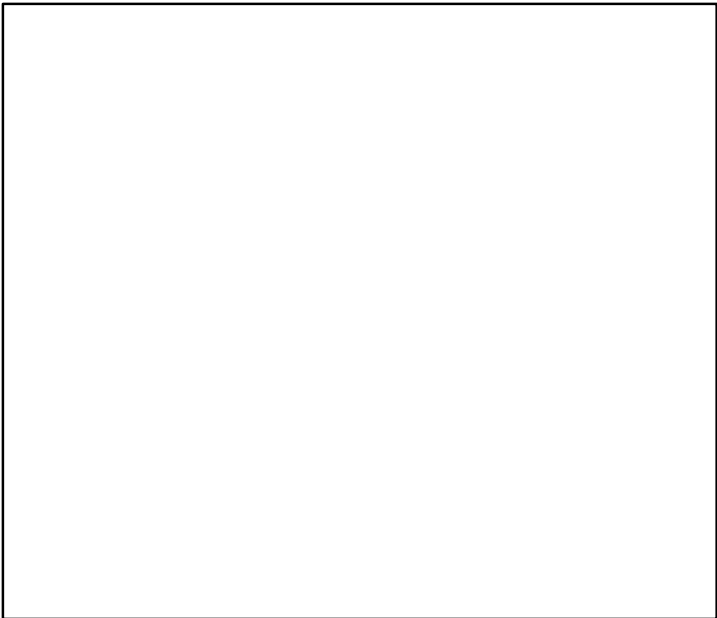
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

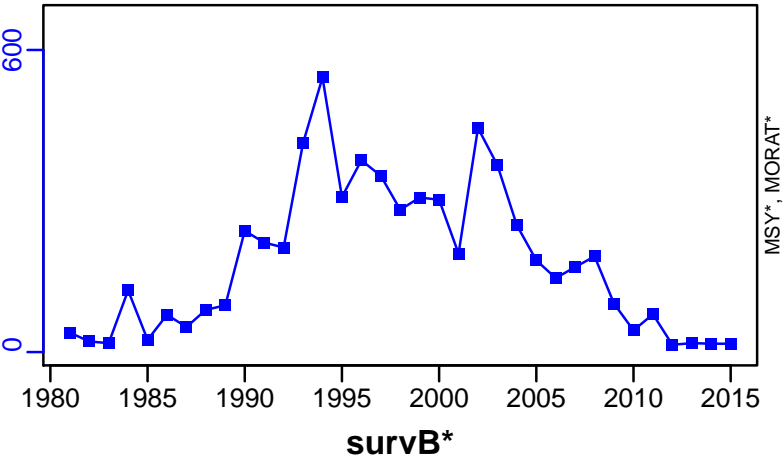


Recruits\*



Norway lobster Noup (FU 10) [NEPHFU10]

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



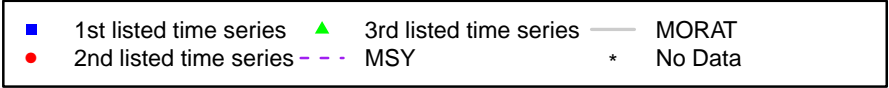
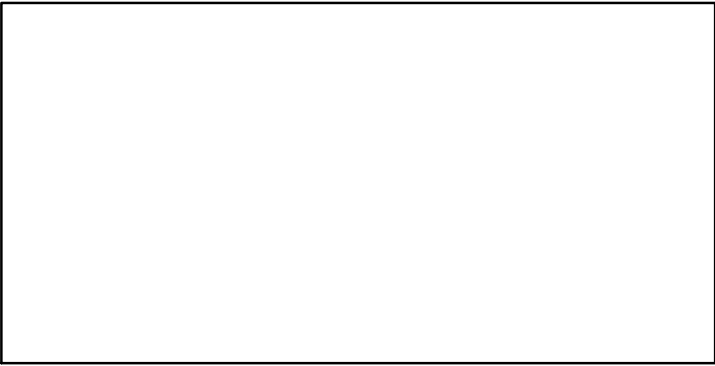
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





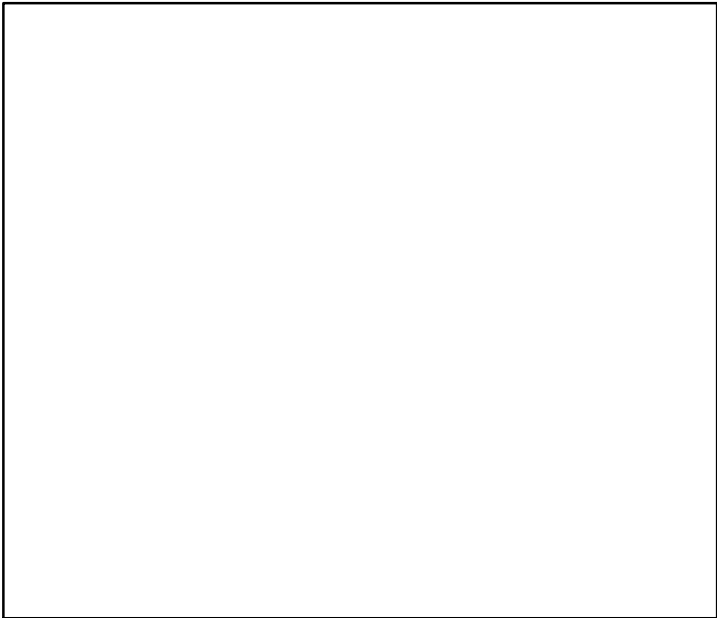
## Norway lobster North Minch (FU 11) [NEPHFU11]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU11-1981-2015-ICESIMP2016
<b>Area</b>	North Minch (FU 11)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

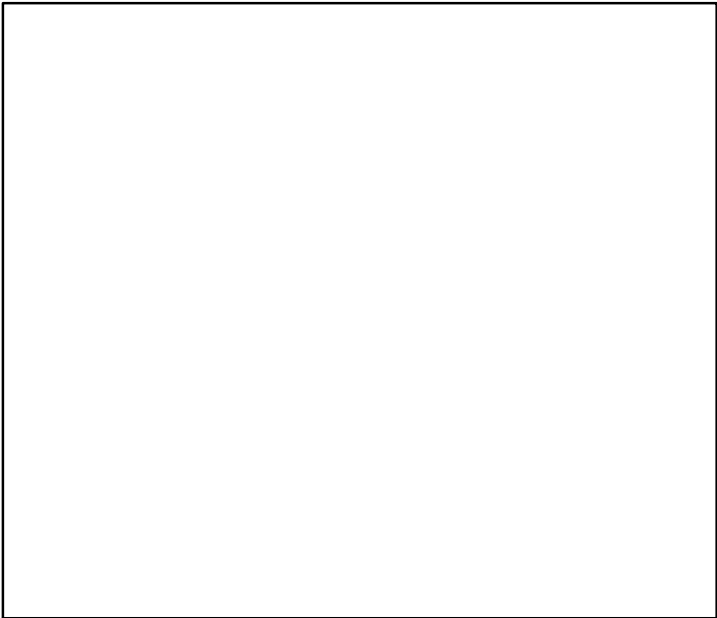
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	0.109
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	0.109
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	0.096	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	3240		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	0.881		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

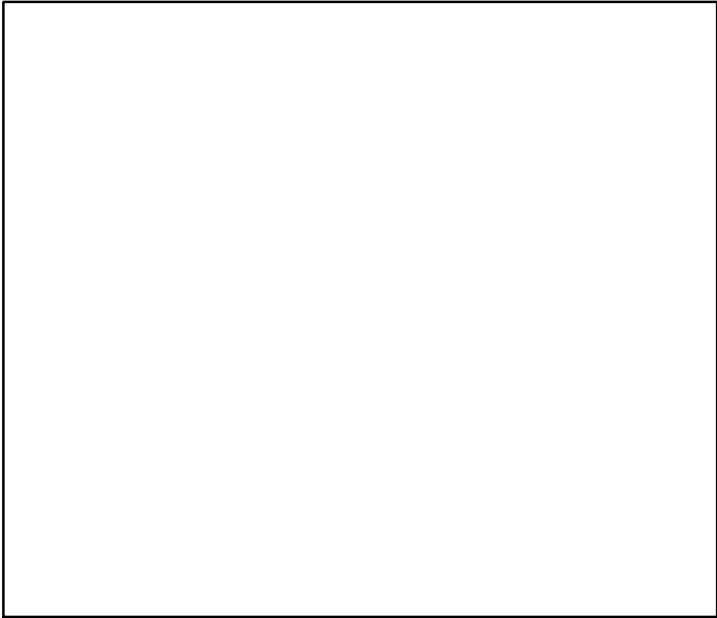
Kobe MSY\*



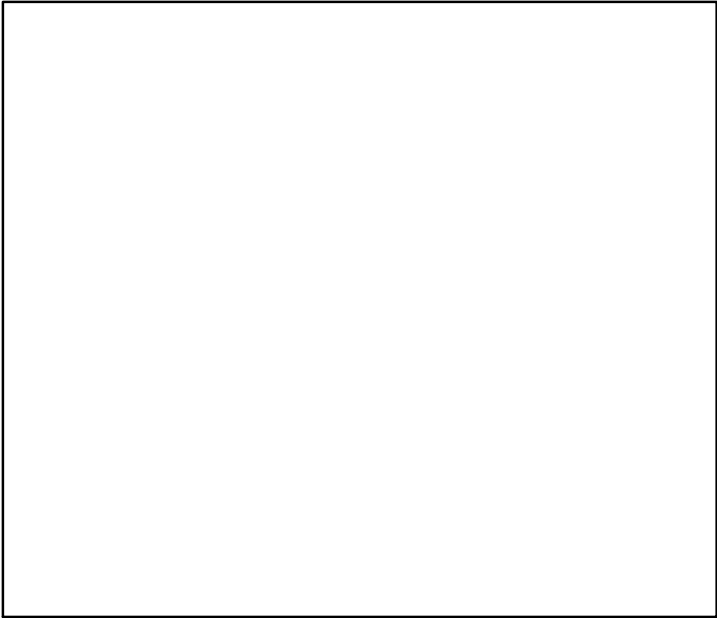
Kobe MGT\*



Spawner Recruit\*



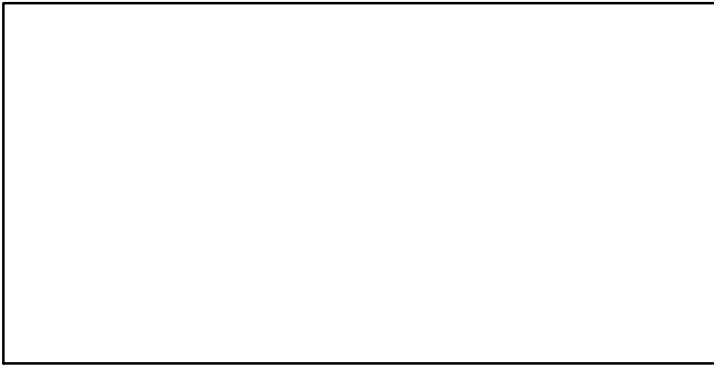
Production\*



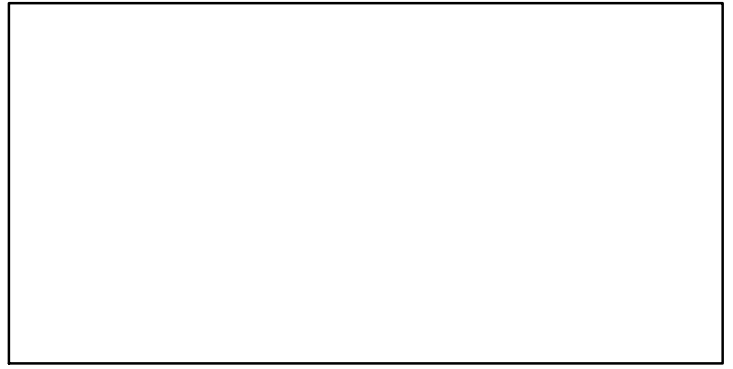
◆ Start Year   ◆ End Year   \* No Data

# Norway lobster North Minch (FU 11) [NEPHFU11]

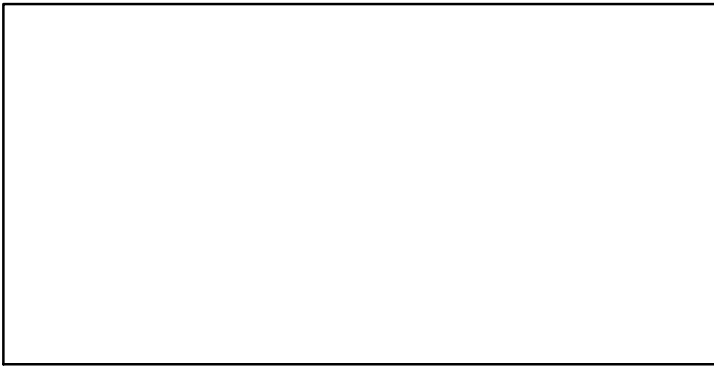
TB\*



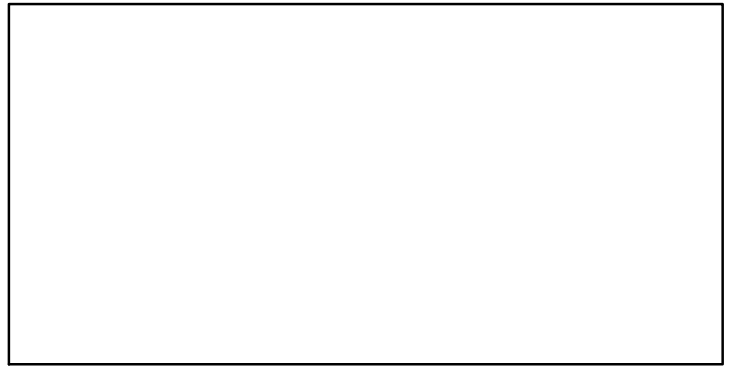
SSB\*



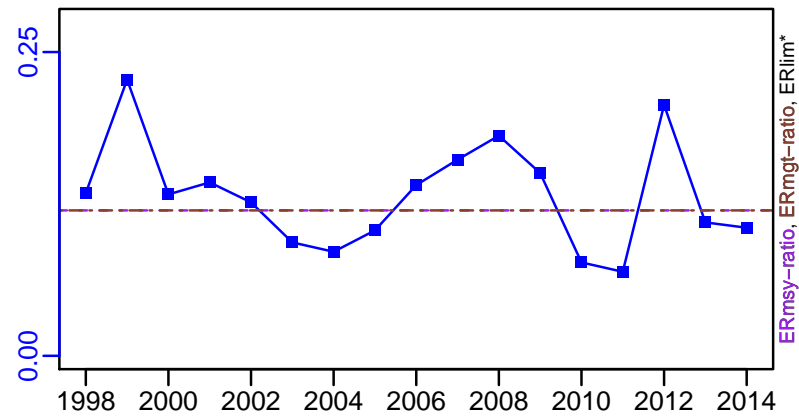
TN \*



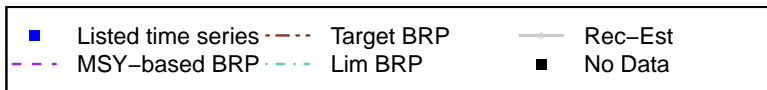
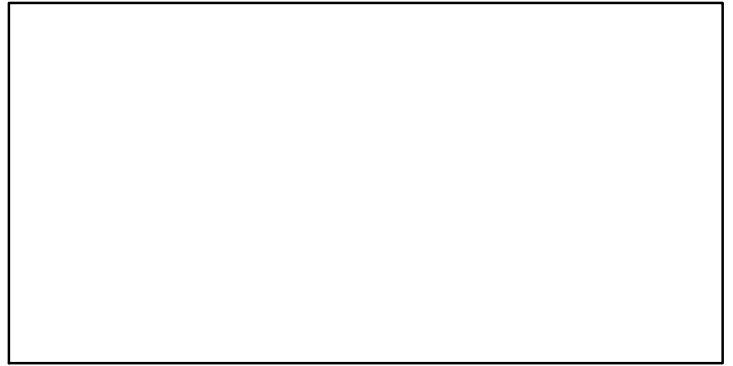
F\*



ER-ratio (1981–2015–ICESIMP2016)



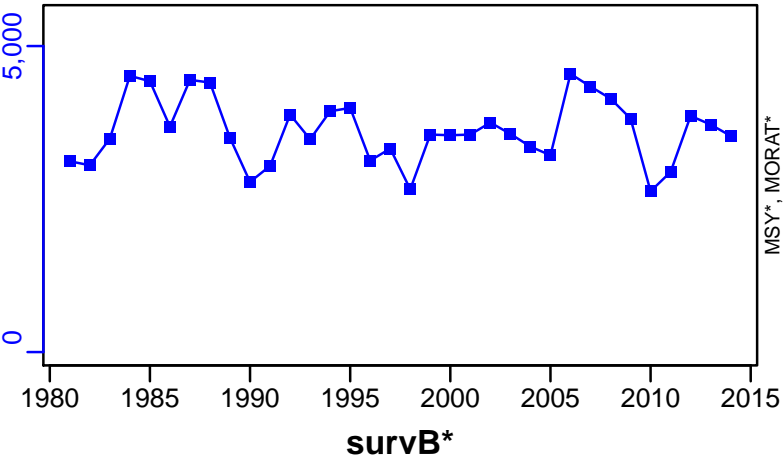
Recruits\*



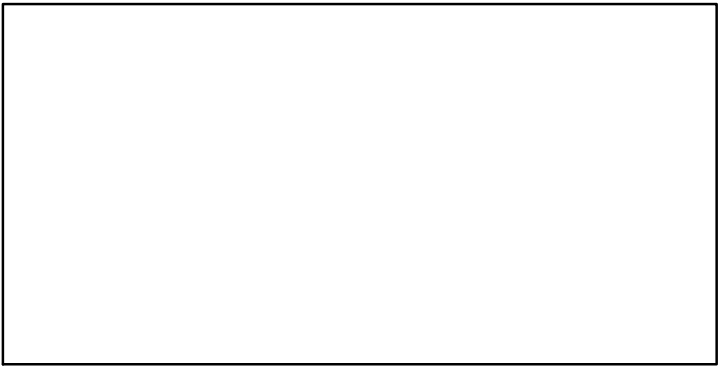
# Norway lobster North Minch (FU 11) [NEPHFU11]

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

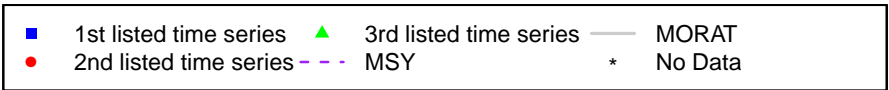
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



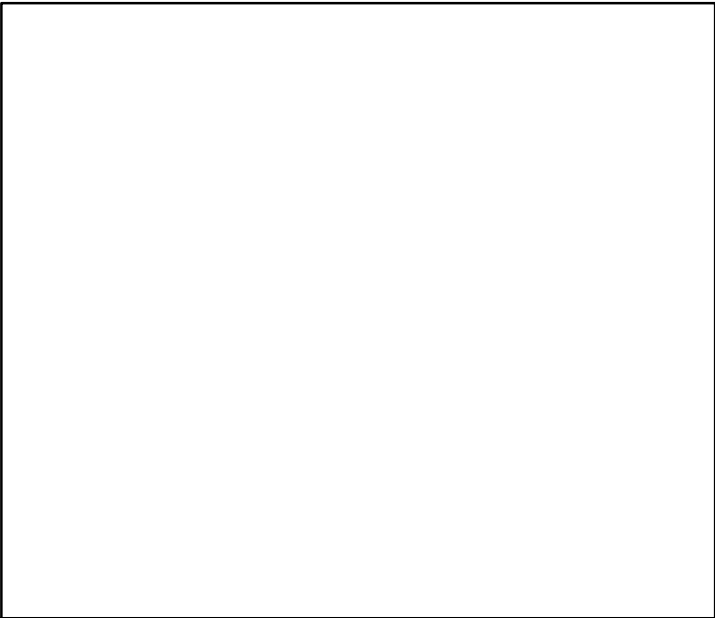
## Norway lobster South Minch (FU 12) [NEPHFU12]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU12-1981-2015-ICESIMP2016
<b>Area</b>	South Minch (FU 12)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

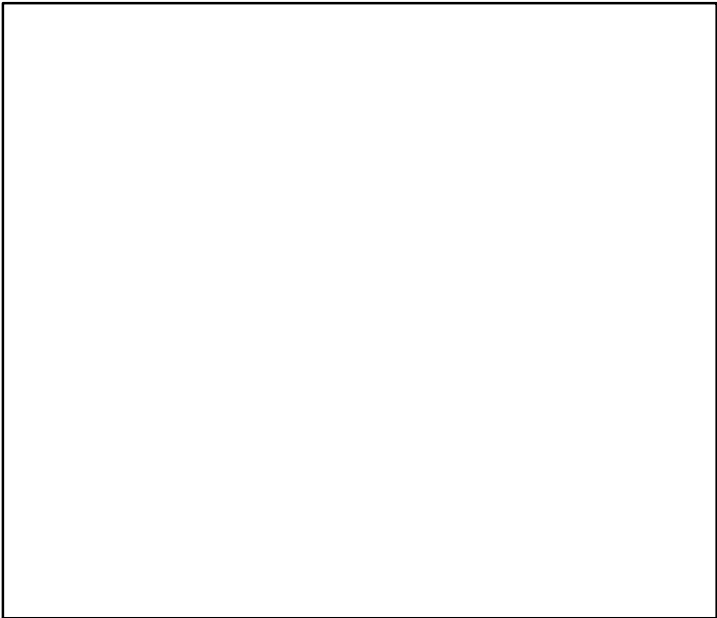
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	0.123
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	0.123
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	0.058	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	3160		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	0.472		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

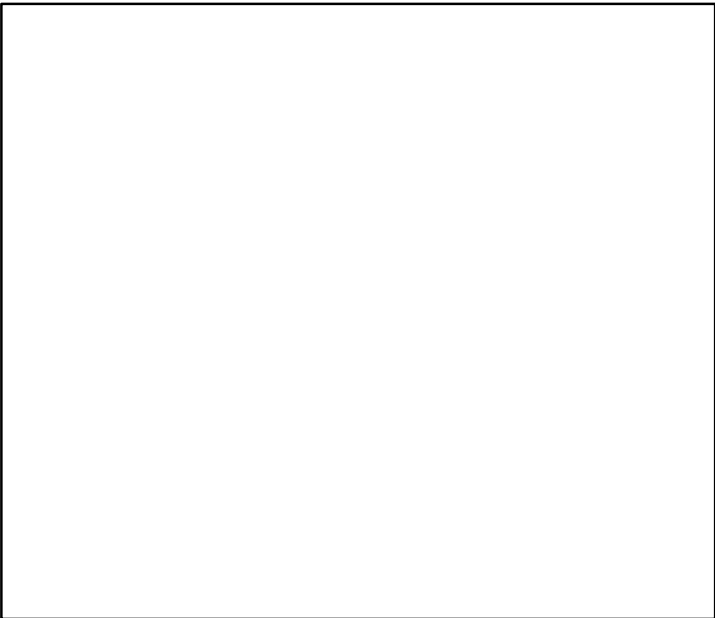
Kobe MSY\*



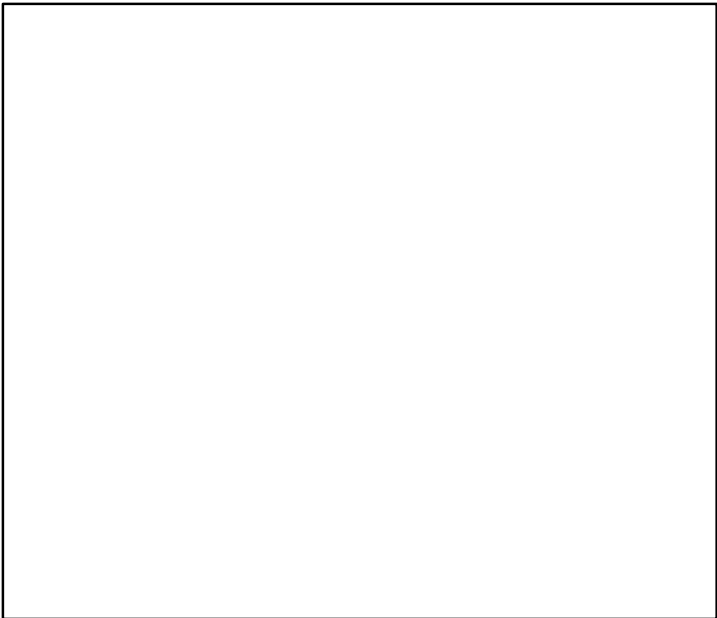
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



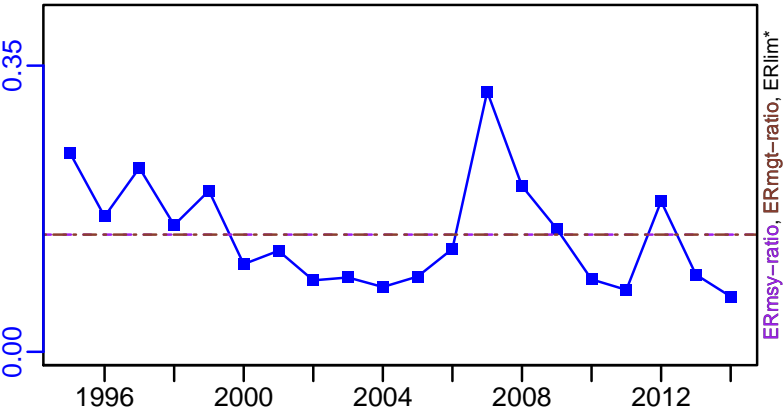
TN \*



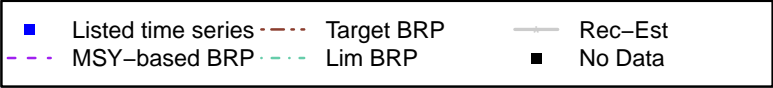
F\*



ER-ratio (1981–2015–ICESIMP2016)



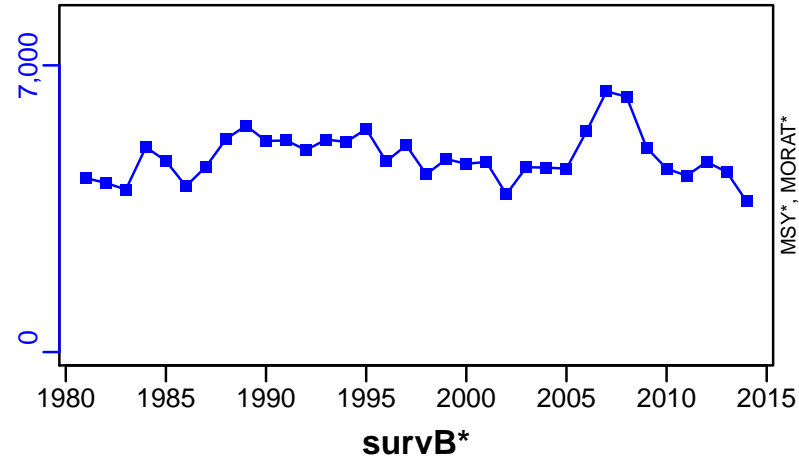
Recruits\*



# Norway lobster South Minch (FU 12) [NEPHFU12]

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

TAC\*, Cpair\*, Cadv\*



CPUE\*

EFFORT\*

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



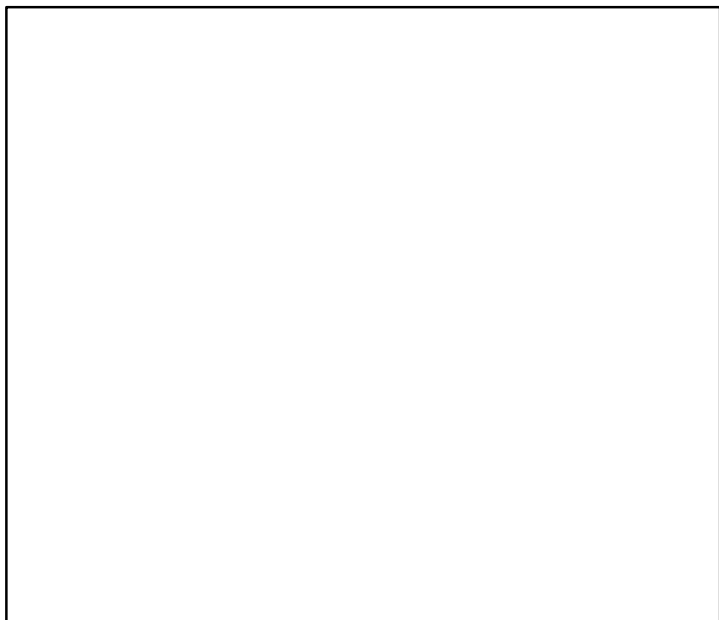
## Norway lobster Firth of Clyde and Sound of Jura (FU 13) [NEPHFU13]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU13-1981-2015-ICESIMP2016
<b>Area</b>	Firth of Clyde and Sound of Jura (FU 13)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

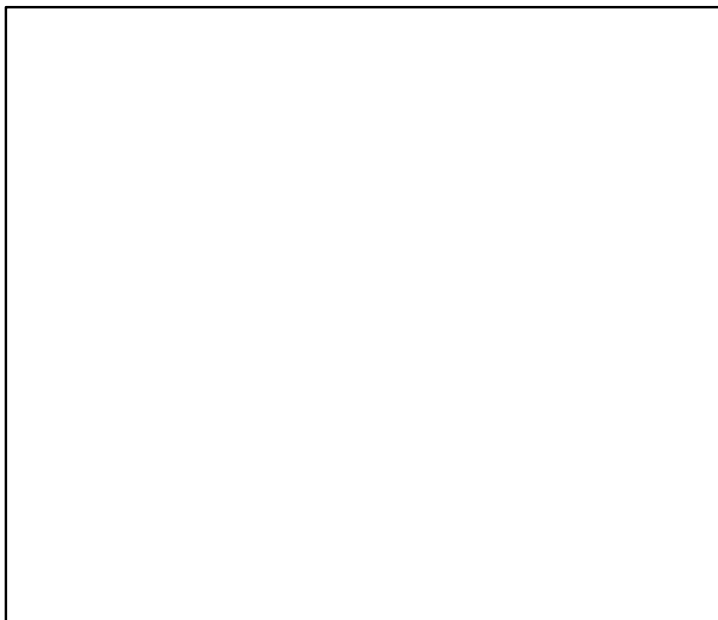
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	0.164
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	0.164
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	0.226	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	6190		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	1.378		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

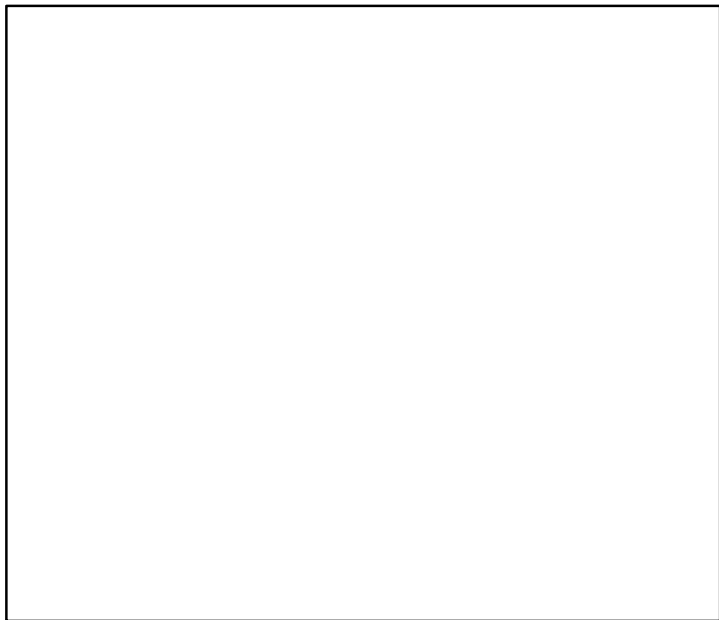
**Kobe MSY\***



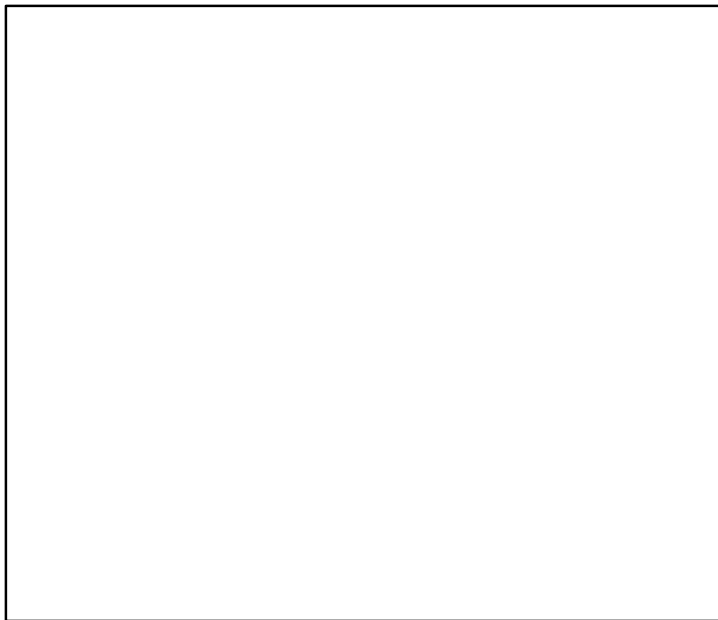
**Kobe MGT\***



**Spawner Recruit\***



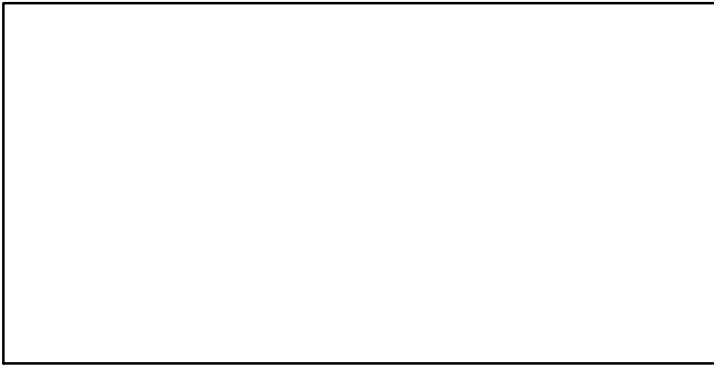
**Production\***



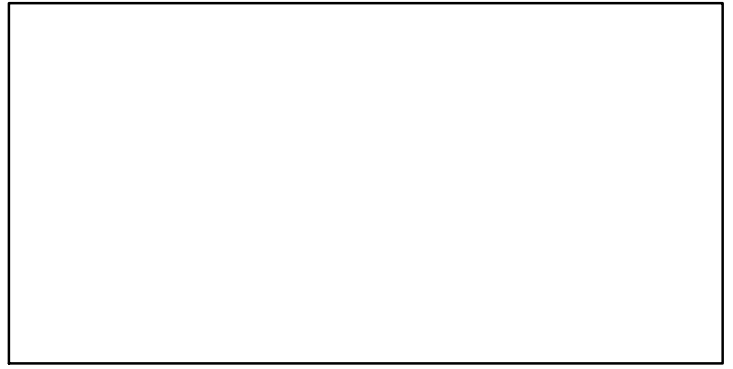
◆ Start Year ◆ End Year \* No Data

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

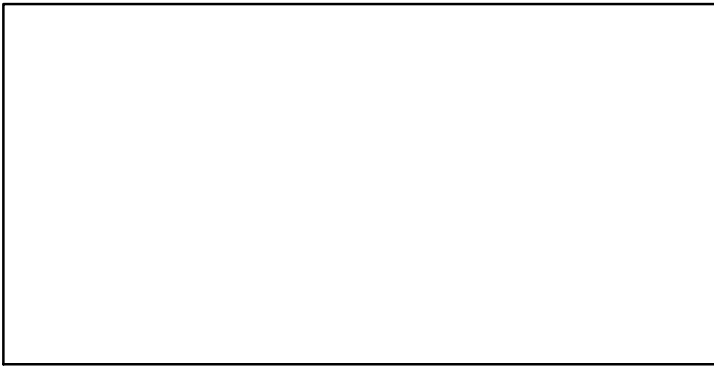
TB\*



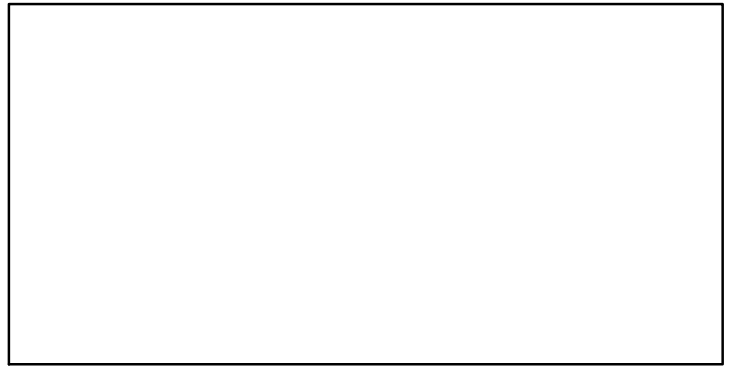
SSB\*



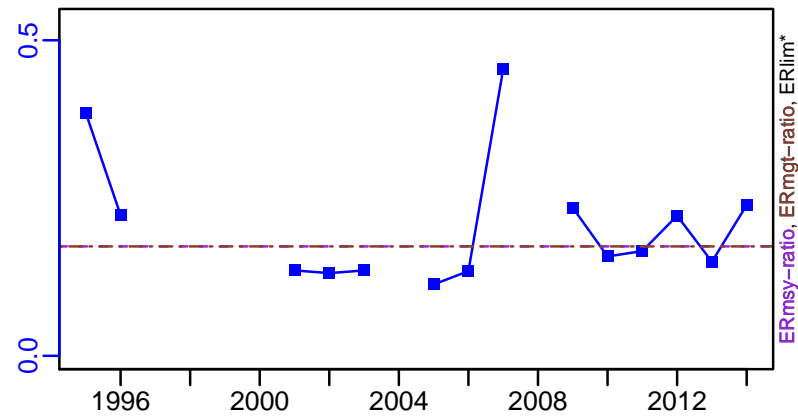
TN \*



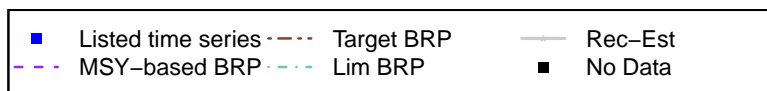
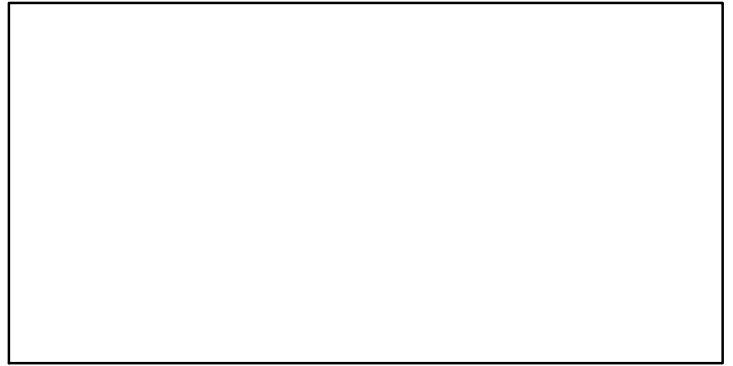
F\*



ER-ratio (1981–2015–ICESIMP2016)



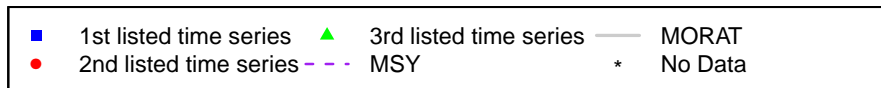
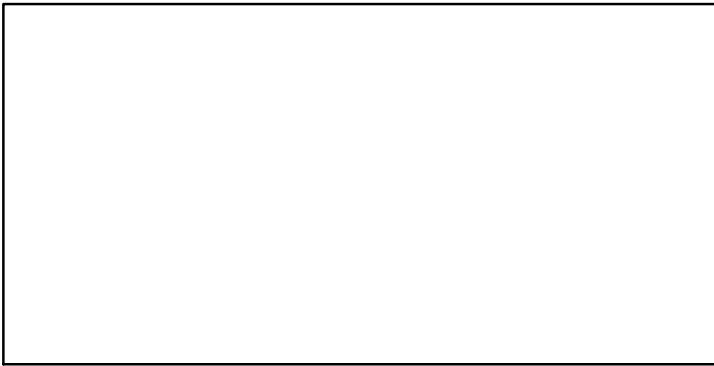
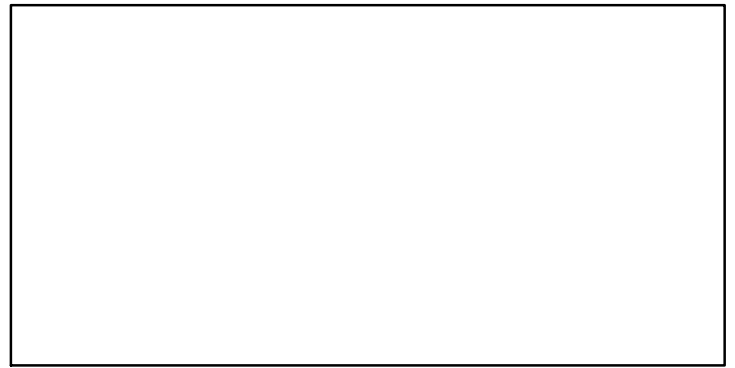
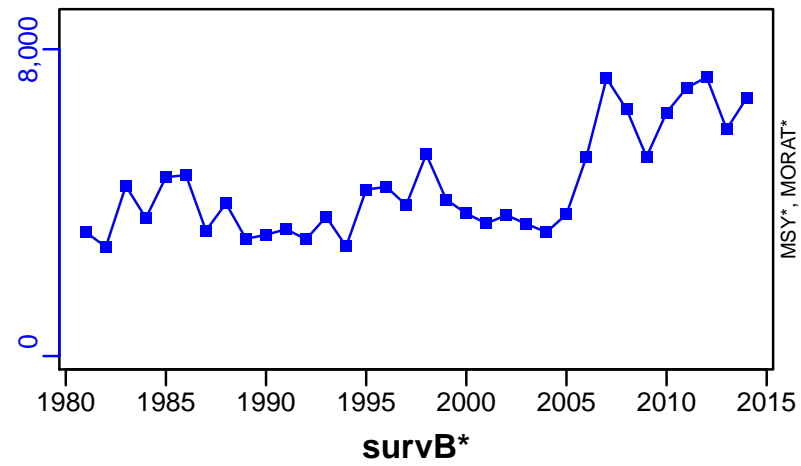
Recruits\*



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

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

TAC\*, Cpair\*, Cadv\*



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

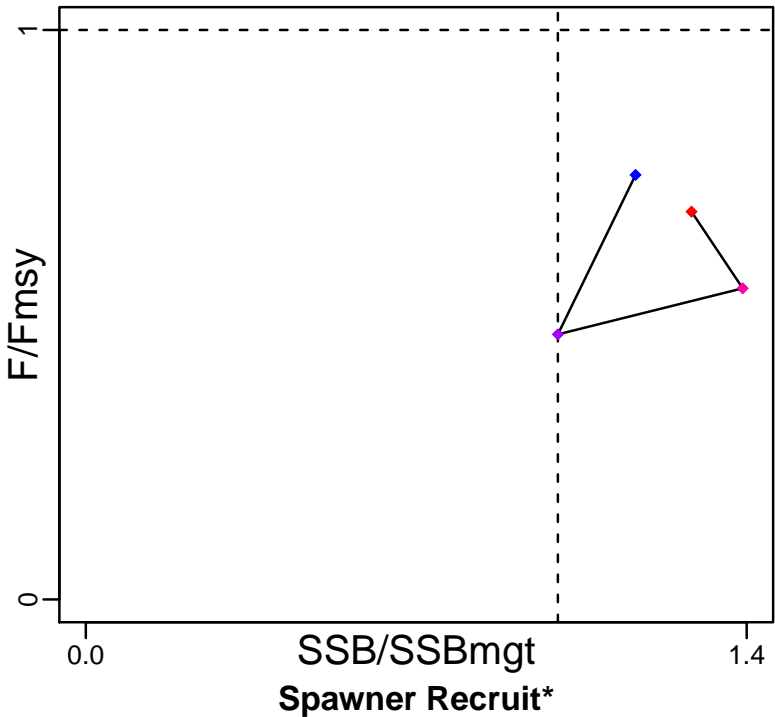
Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU14-2000-2015-ICESIMP2016
<b>Area</b>	Irish Sea East (FU 14)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM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

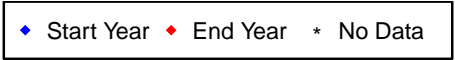
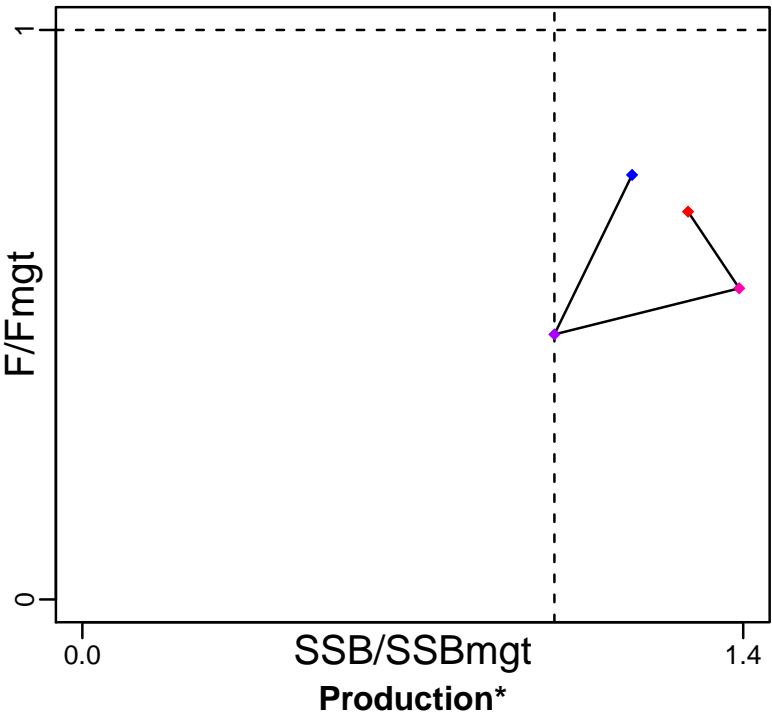
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	591	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2015	7.49	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	679		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.681		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.687		
F/Fmgt	F-1/yr/Fmgt-1/yr	2015	0.681		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (2000–2015–ICESIMP2016)



Kobe MGTpref (2000–2015–ICESIMP2016)

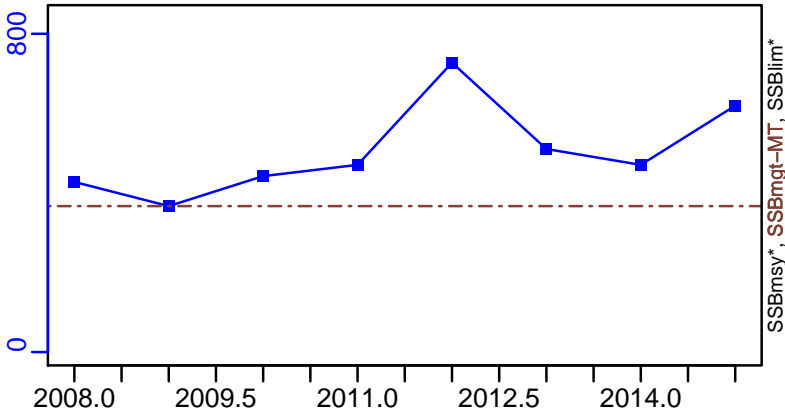


Norway lobster Irish Sea East (FU 14) [NEPHFU14]

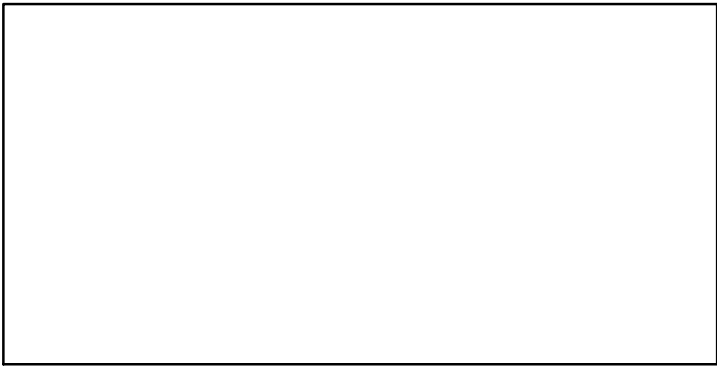
TB\*



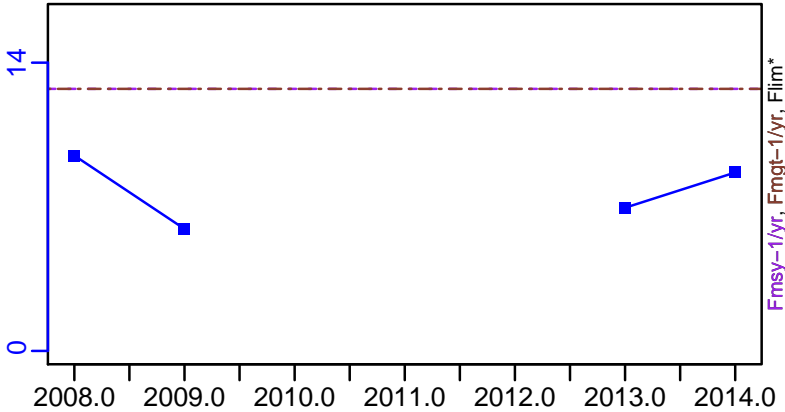
SSB-MT (2000–2015–ICESIMP2016)



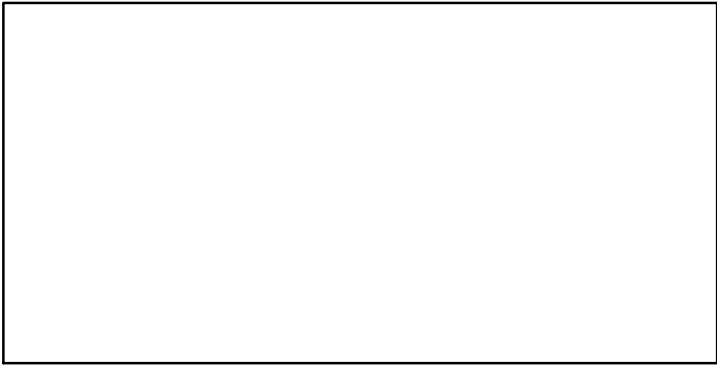
TN \*



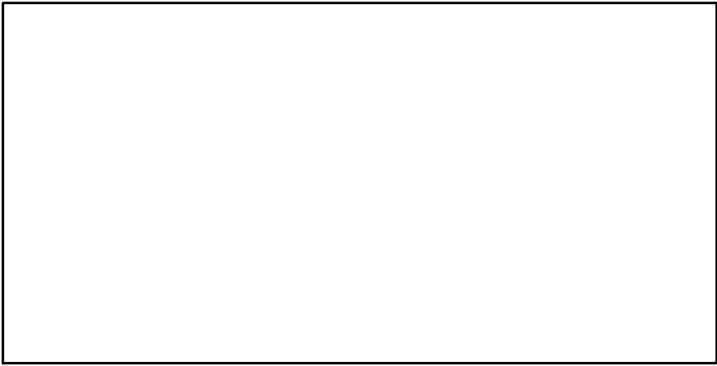
F-1/yr (2000–2015–ICESIMP2016)



ER\*

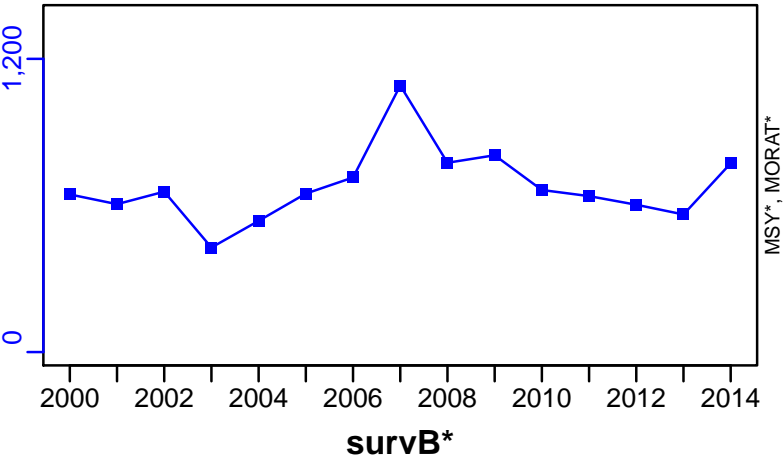


Recruits\*



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

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



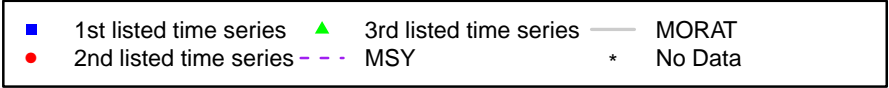
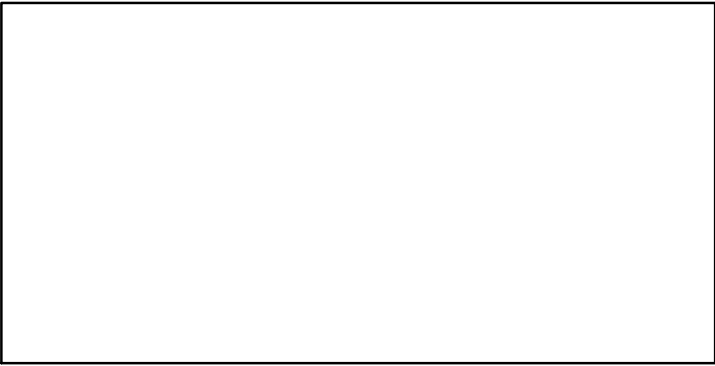
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





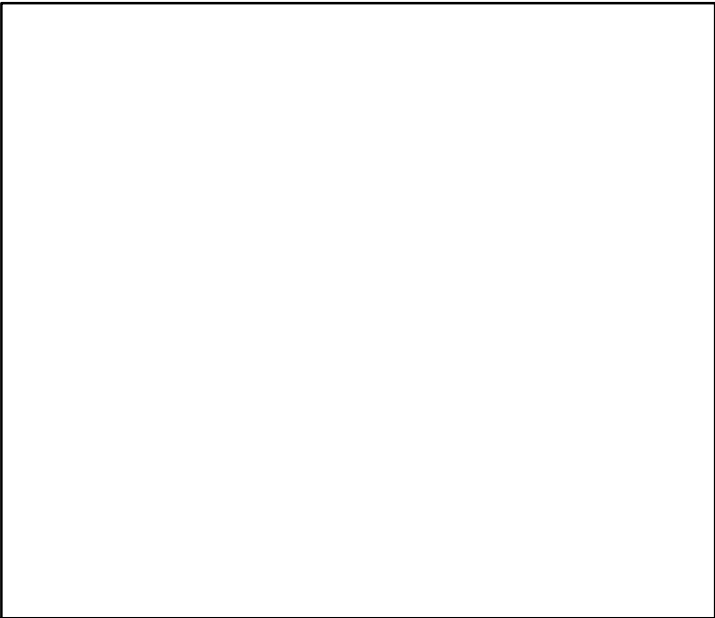
## Norway lobster Irish Sea West (FU 15) [NEPHFU15]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU15-1960-2015-ICESIMP2016
<b>Area</b>	Irish Sea West (FU 15)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

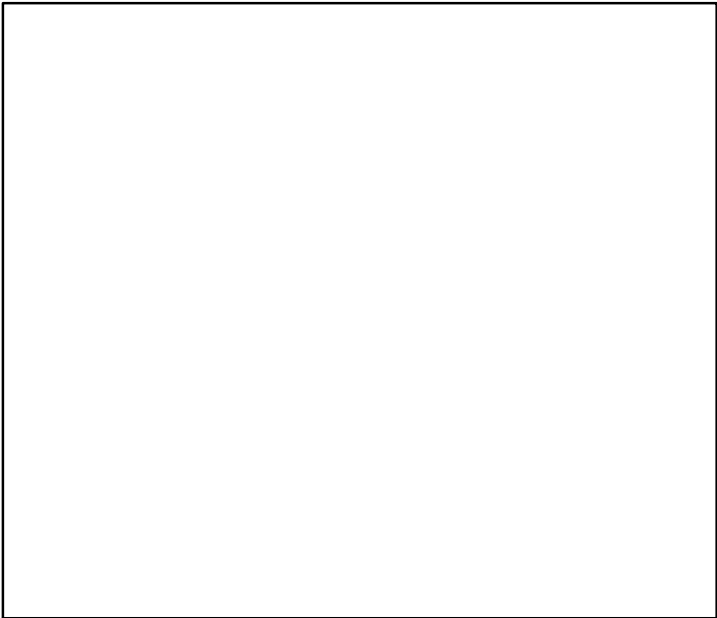
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	17.1
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	17.1
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	17.5	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	8610		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	1.023		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

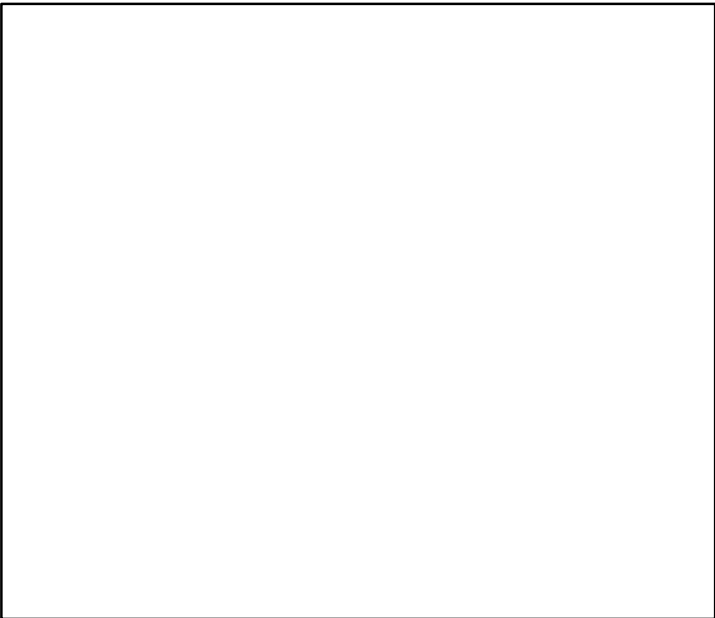
Kobe MSY\*



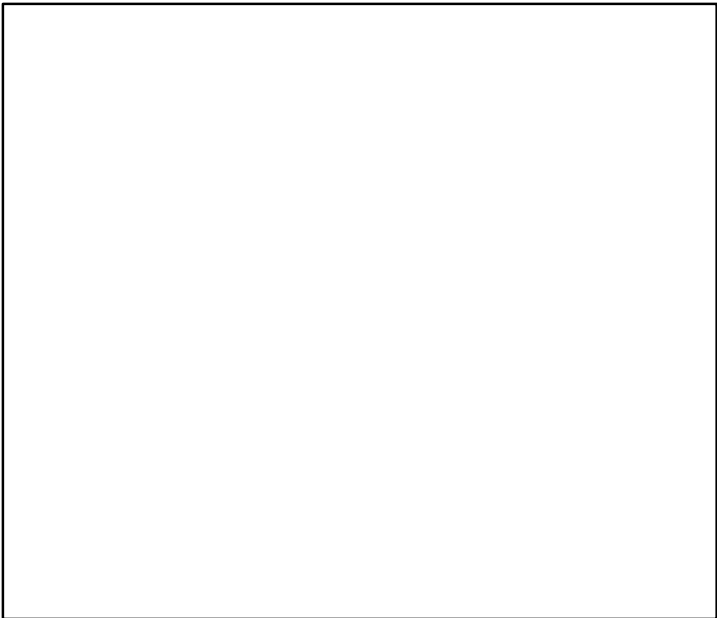
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



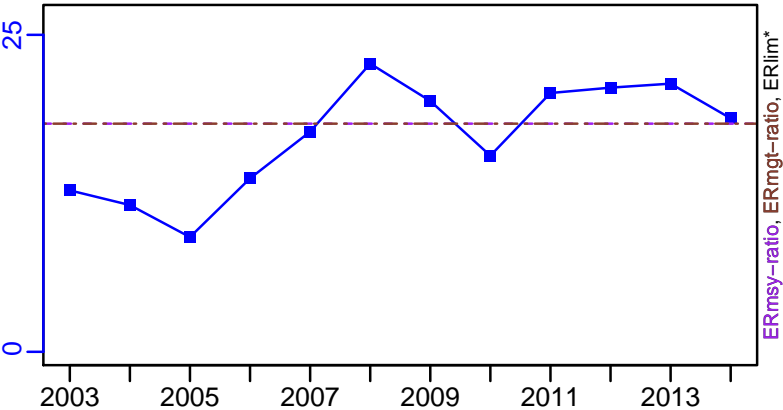
TN \*



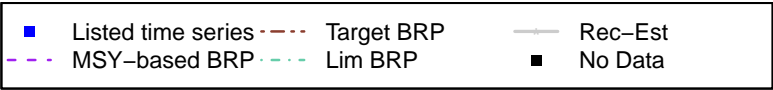
F\*



ER-ratio (1960–2015–ICESIMP2016)

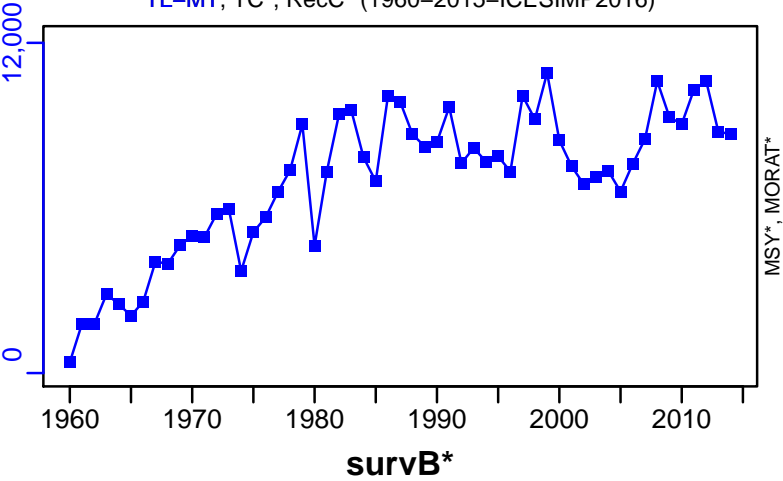


Recruits\*

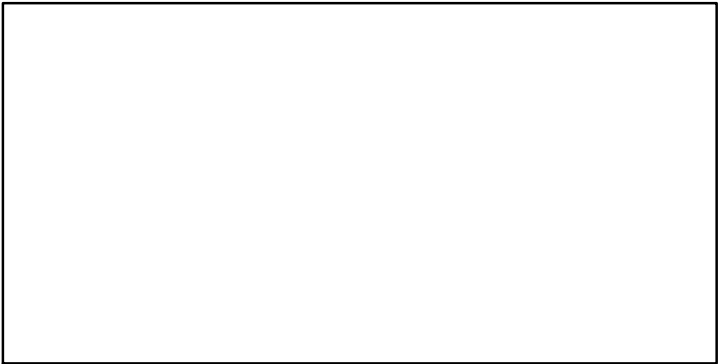


Norway lobster Irish Sea West (FU 15) [NEPHFU15]

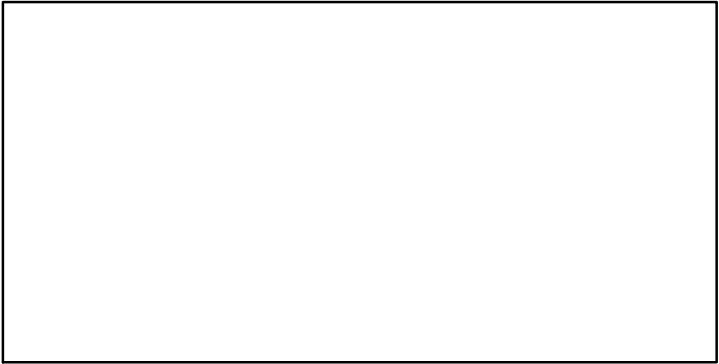
TL-MT, TC\*, RecC\* (1960-2015-ICESIMP2016)



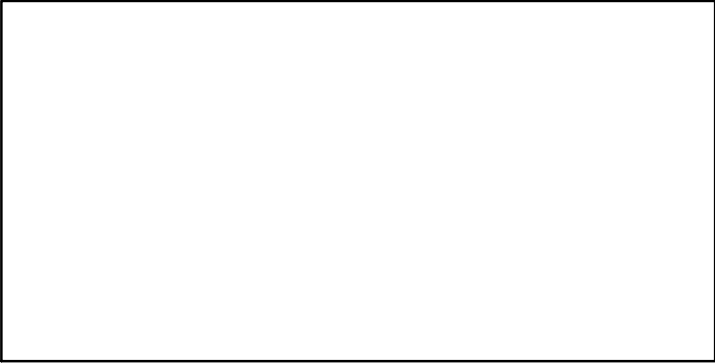
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



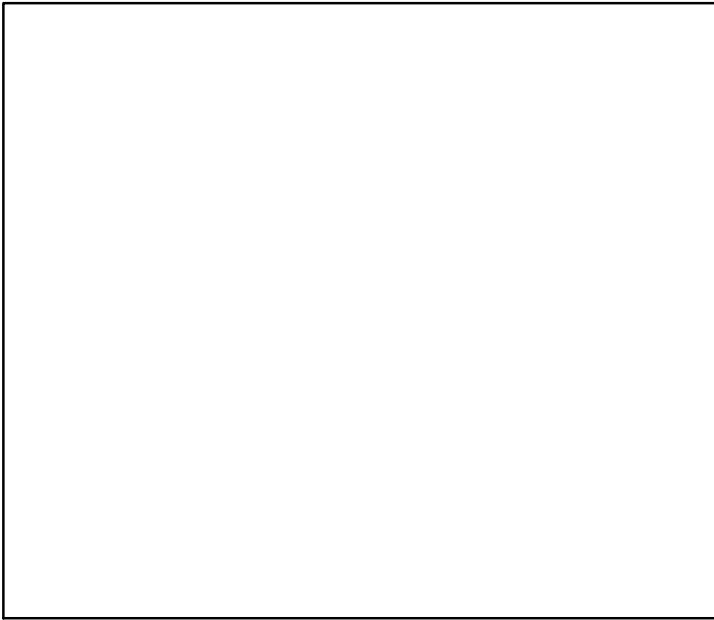
## Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU16-1981-2015-ICESIMP2016
<b>Area</b>	Porcupine Bank (FU 16)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

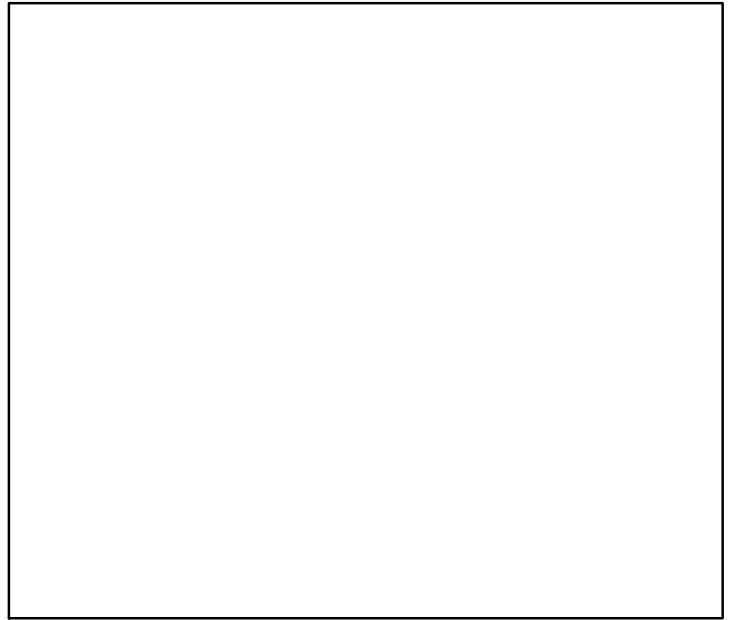
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

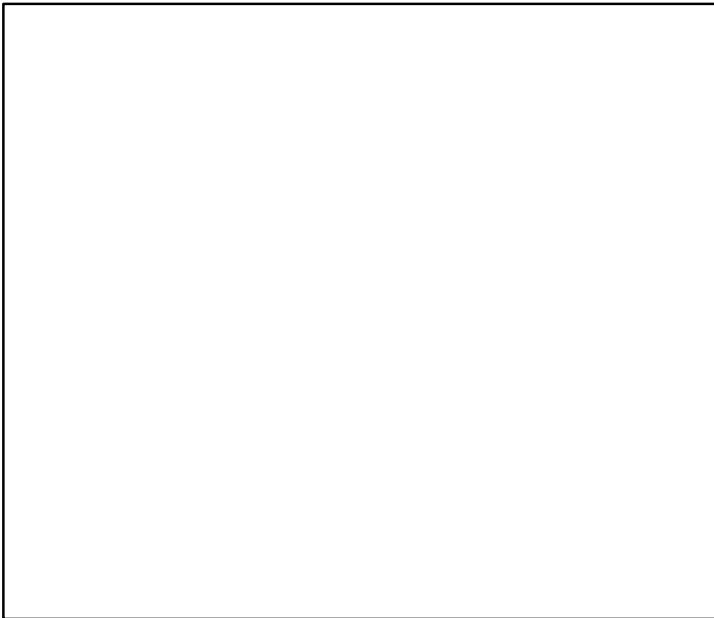
**Kobe MSY\***



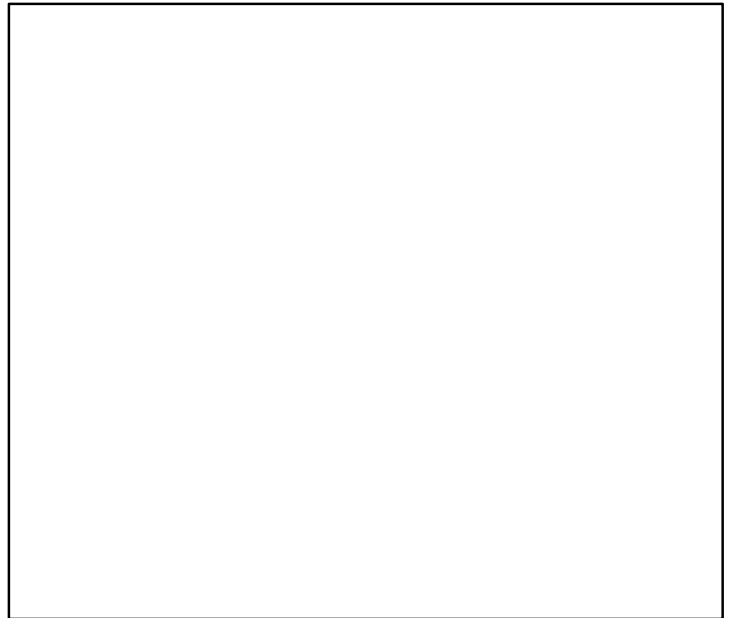
**Kobe MGT\***



**Spawner Recruit\***



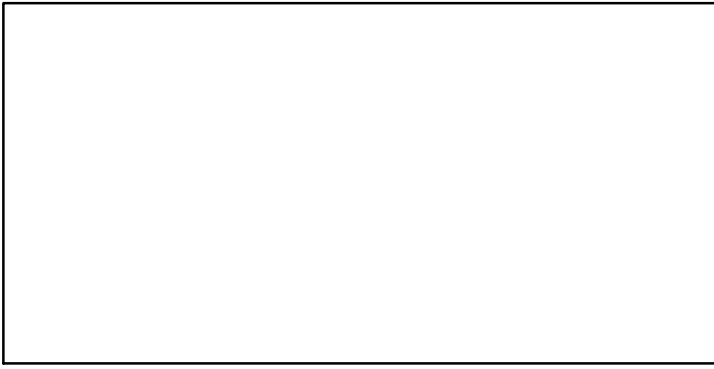
**Production\***



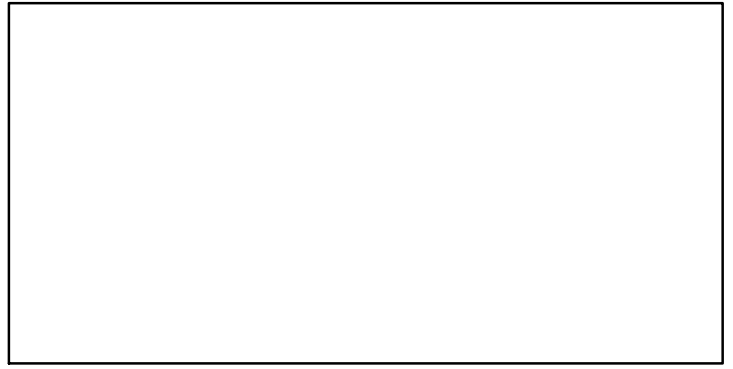
◆ Start Year   ◆ End Year   \* No Data

Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

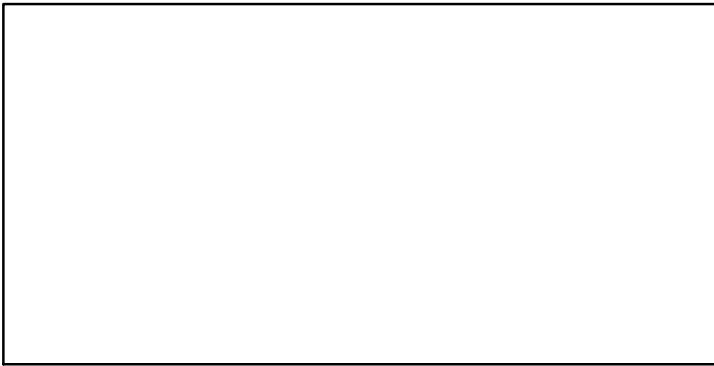
**TB\***



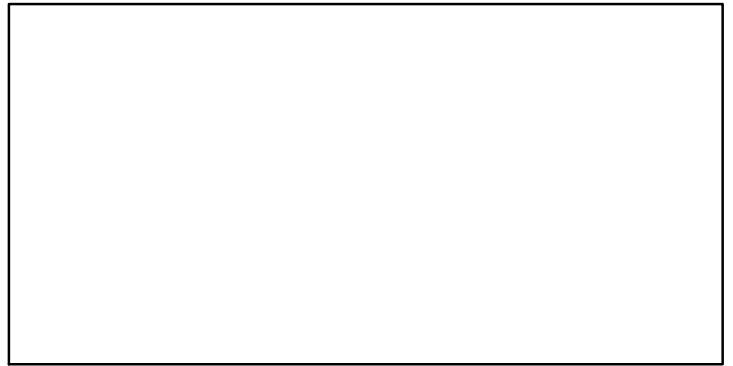
**SSB\***



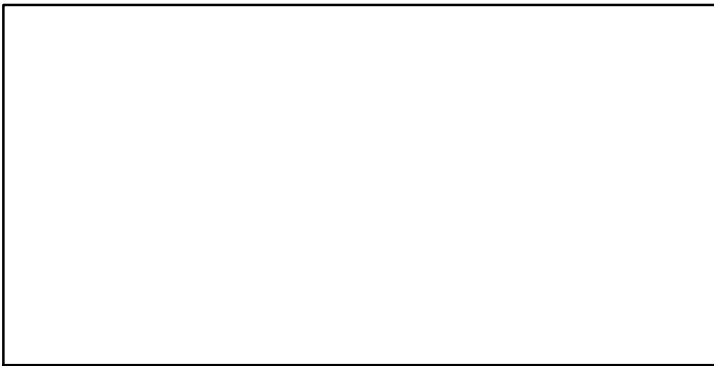
**TN \***



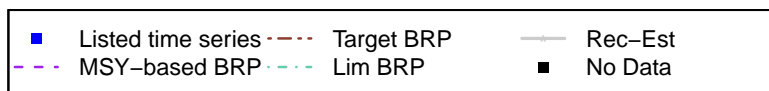
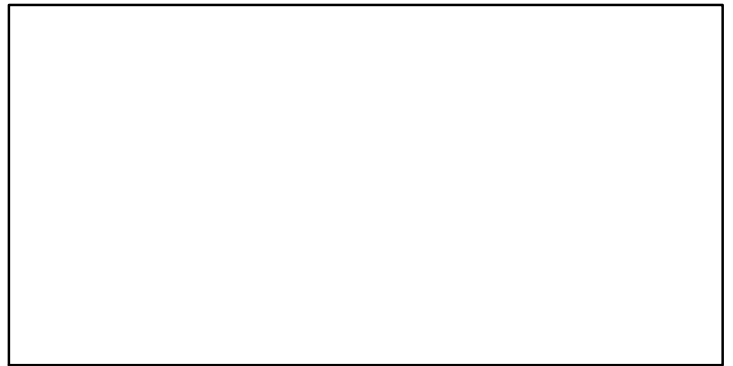
**F\***



**ER\***



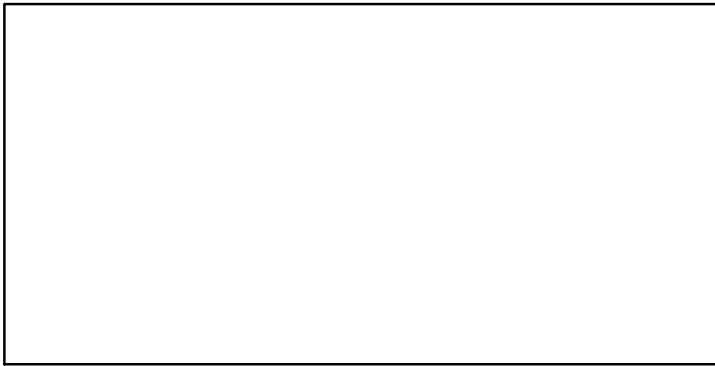
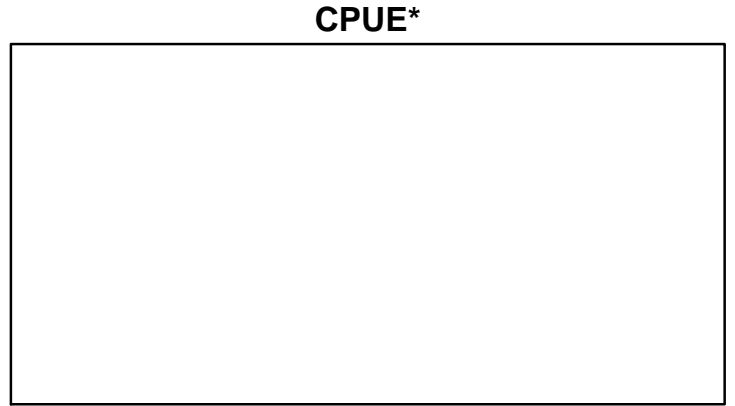
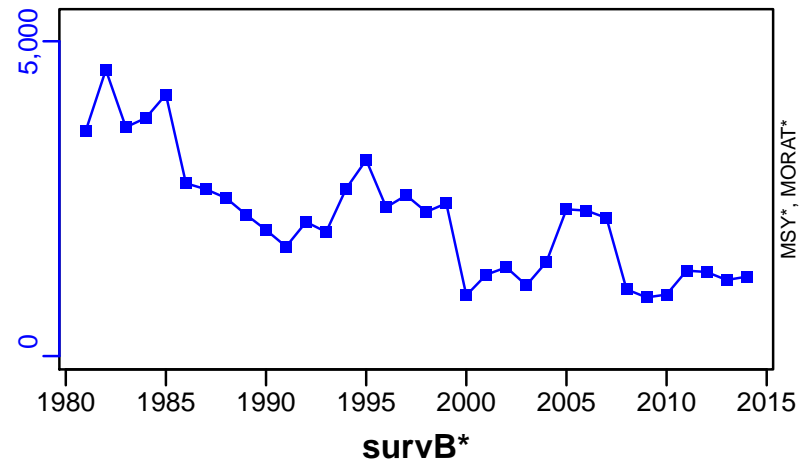
**Recruits\***



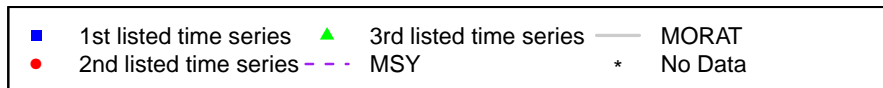
# Norway lobster Porcupine Bank (FU 16) [NEPHFU16]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





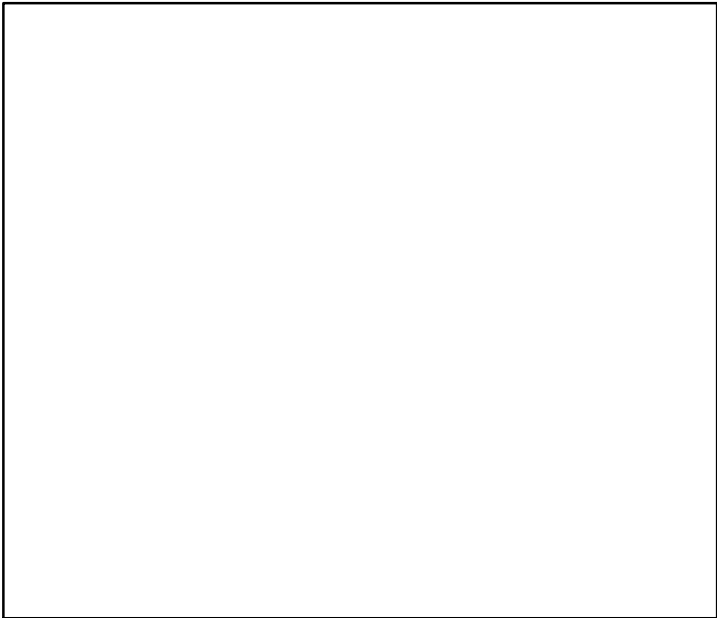
## Norway lobster Aran Grounds (FU 17) [NEPHFU17]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU17-1974-2015-ICESIMP2016
<b>Area</b>	Aran Grounds (FU 17)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

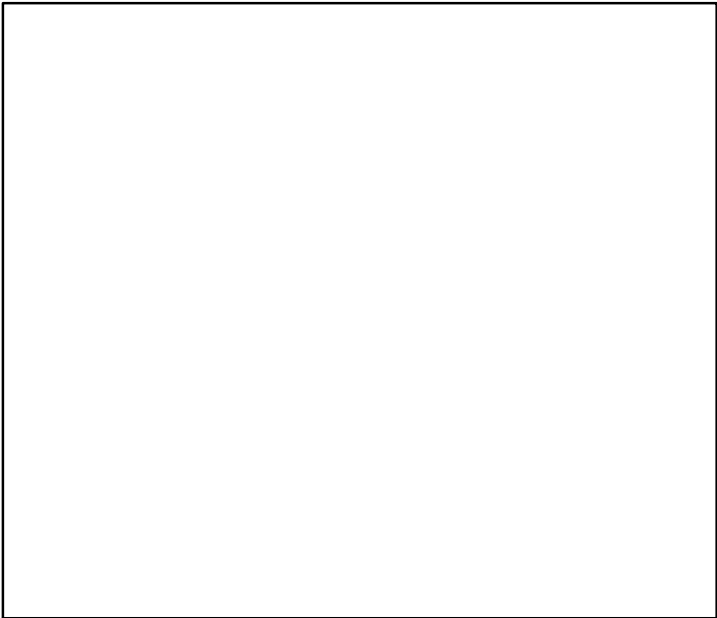
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	12.5
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	12.5
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	9.83	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	766		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	0.787		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

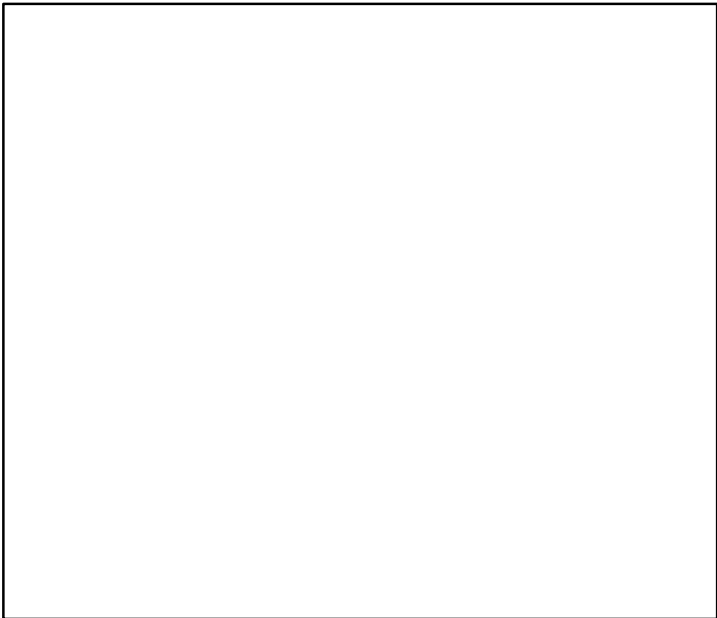
Kobe MSY\*



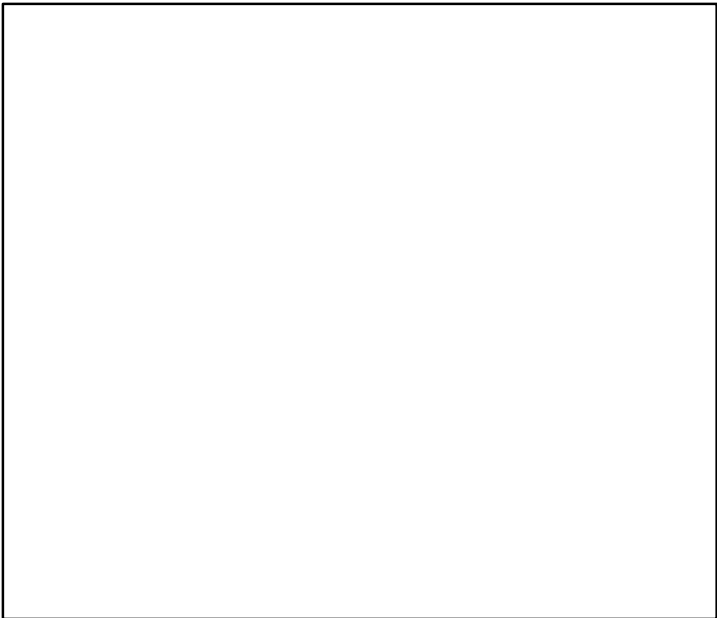
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Norway lobster Aran Grounds (FU 17) [NEPHFU17]

TB\*



SSB\*



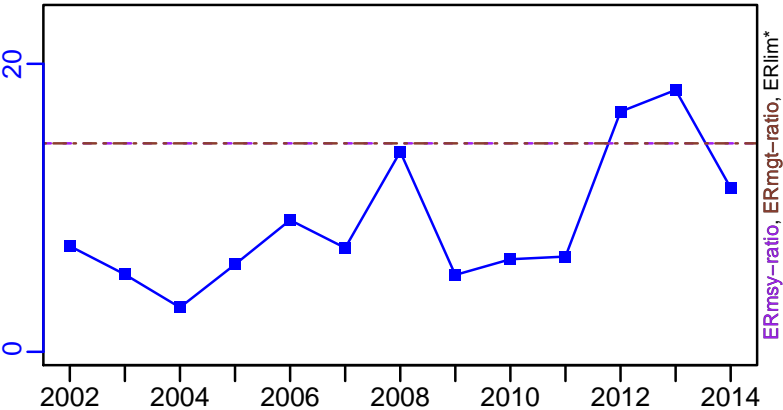
TN \*



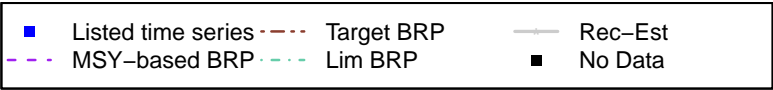
F\*



ER-ratio (1974–2015–ICESIMP2016)

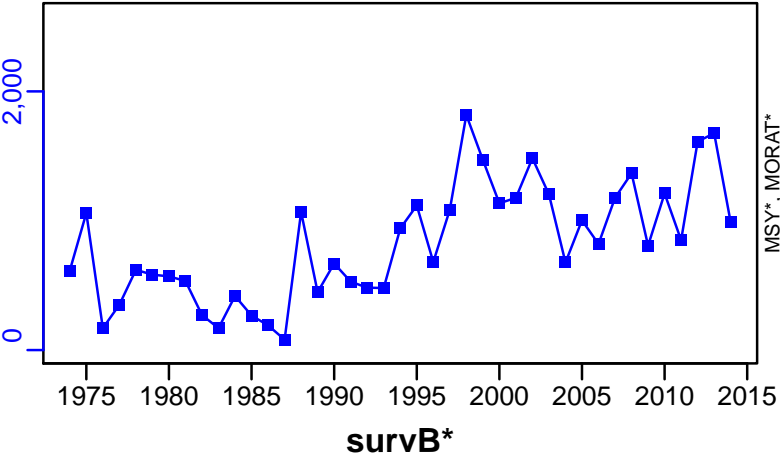


Recruits\*

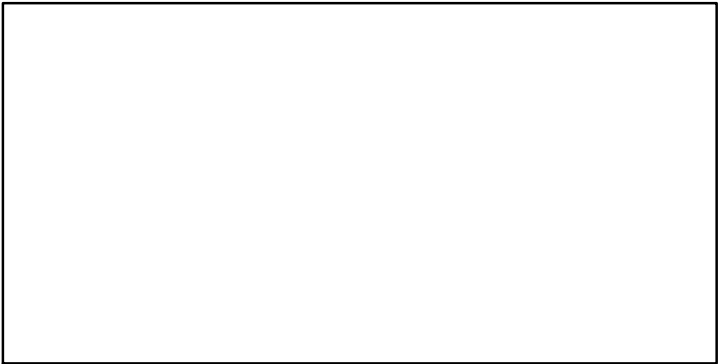


Norway lobster Aran Grounds (FU 17) [NEPHFU17]

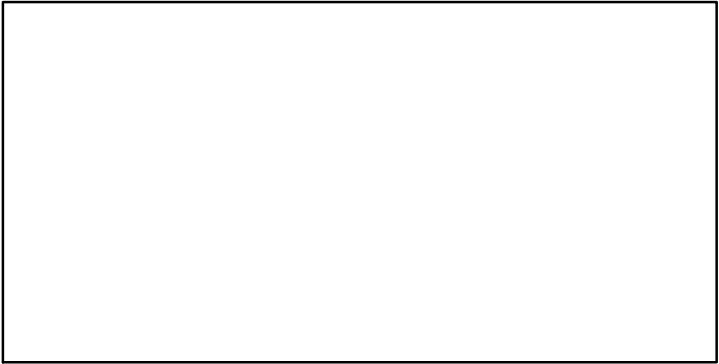
TL-MT, TC\*, RecC\* (1974-2015-ICESIMP2016)



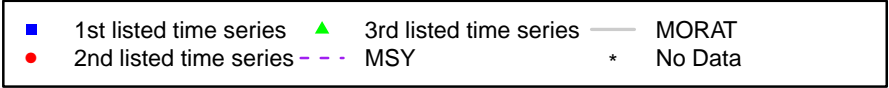
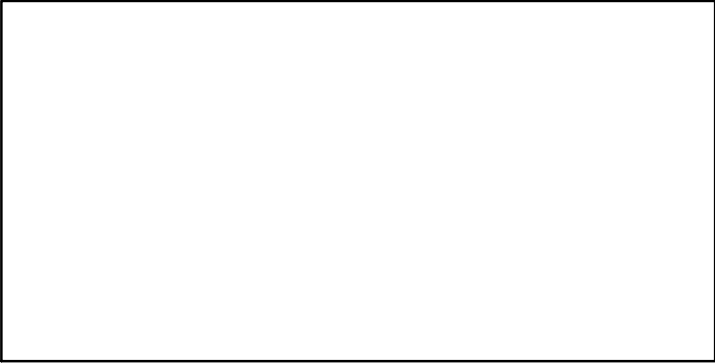
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



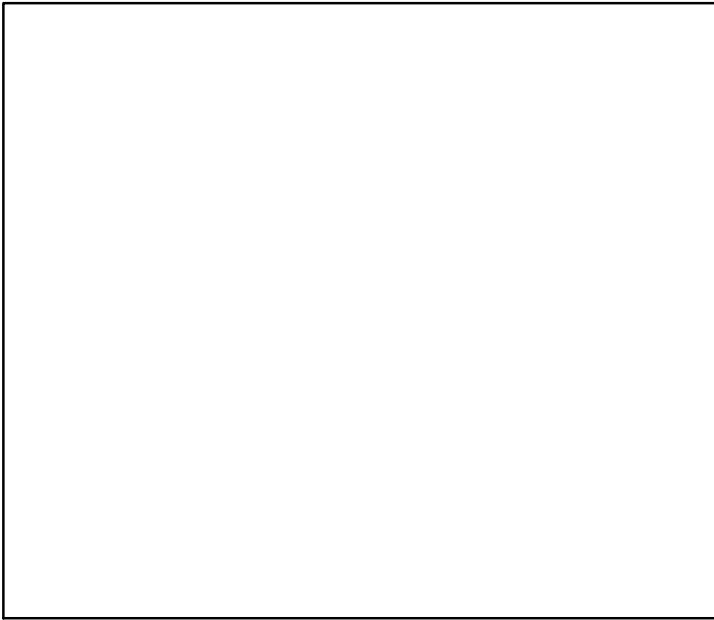
## Norway lobster South East and West of IRL (FU 19) [NEPHFU19]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU19-2006-2015-ICESIMP2016
<b>Area</b>	South East and West of IRL (FU 19)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

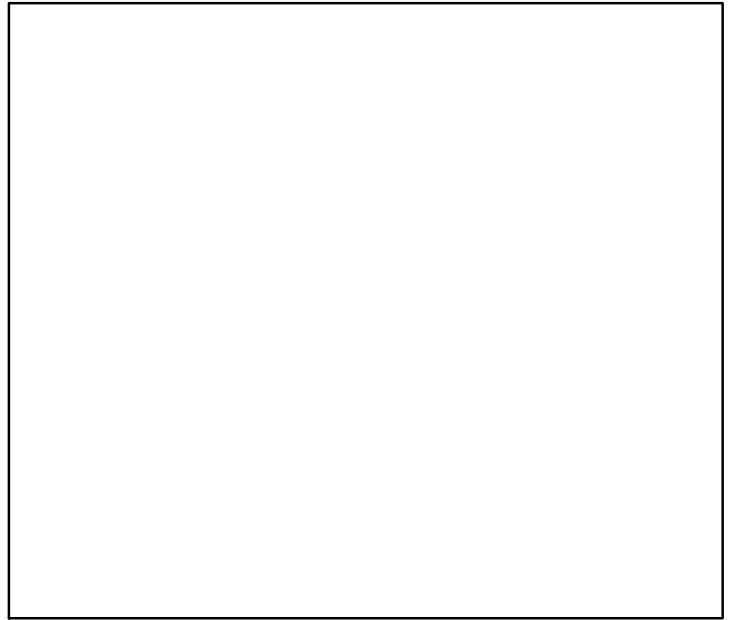
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

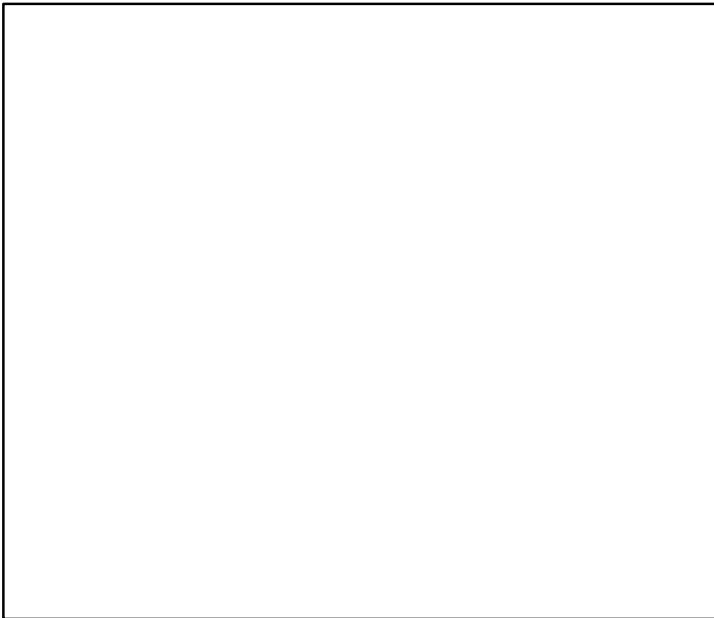
**Kobe MSY\***



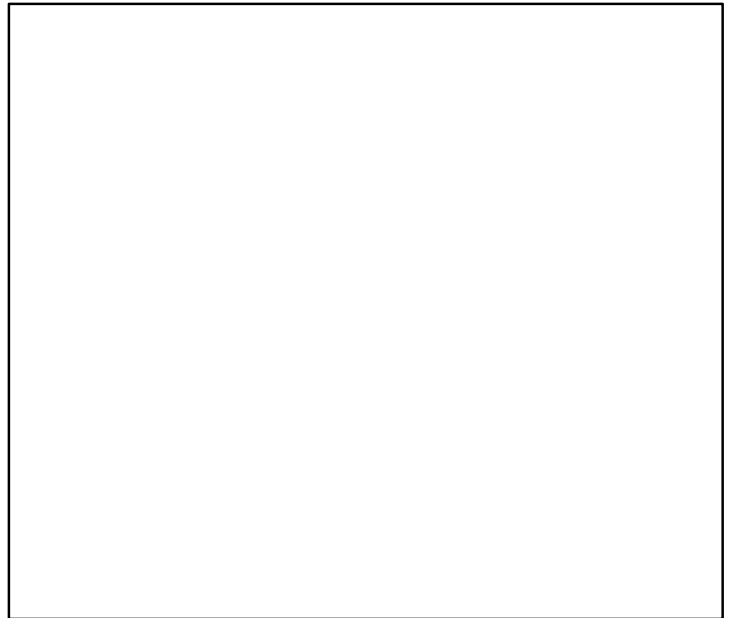
**Kobe MGT\***



**Spawner Recruit\***



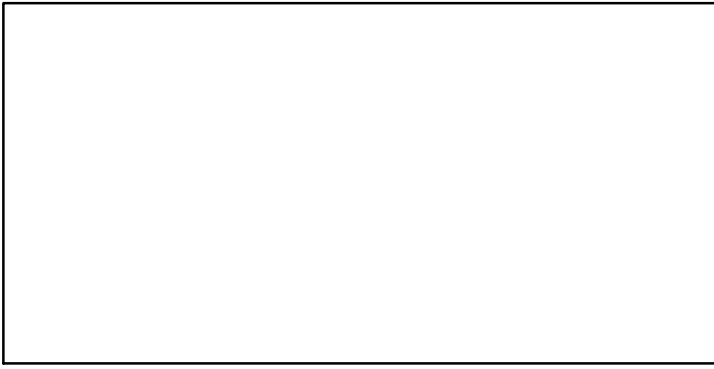
**Production\***



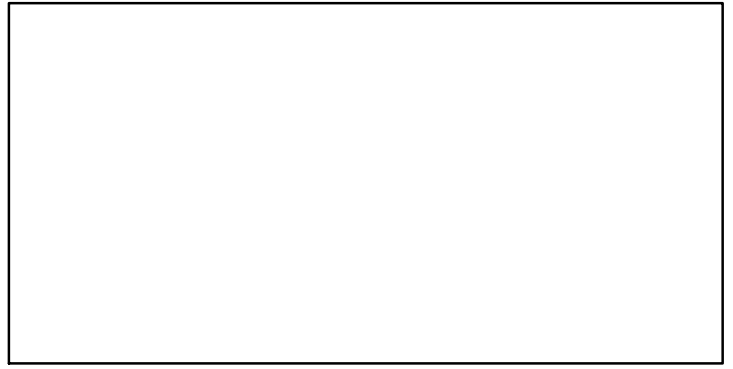
◆ Start Year ◆ End Year \* No Data

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

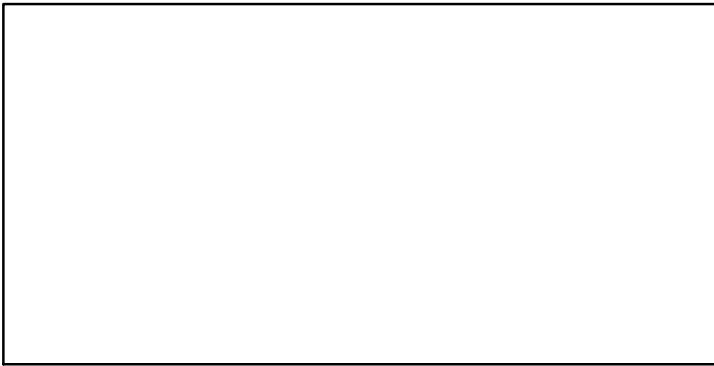
**TB\***



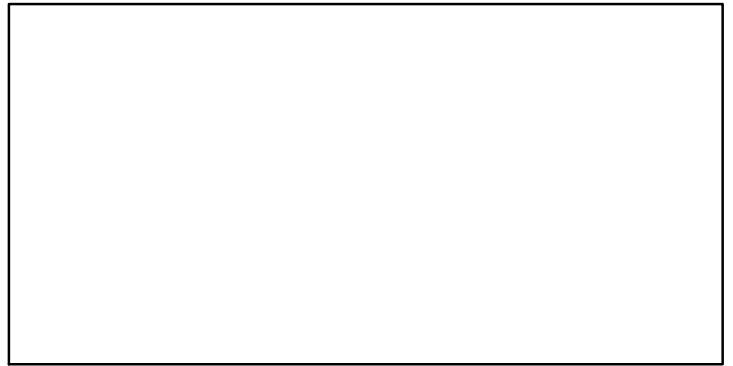
**SSB\***



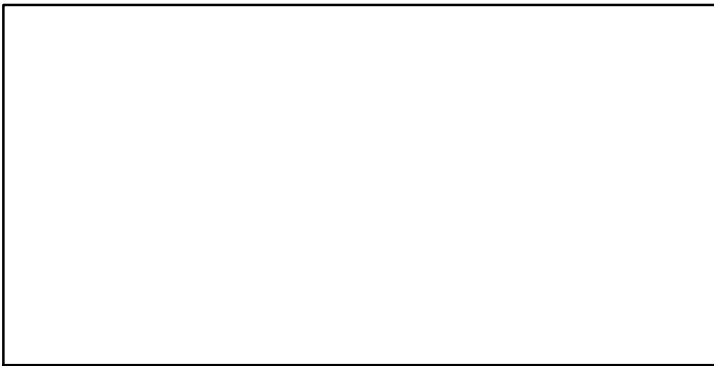
**TN \***



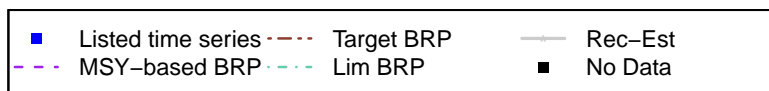
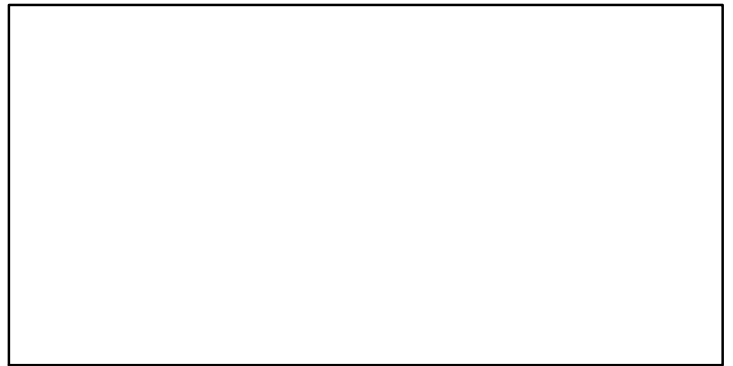
**F\***



**ER\***



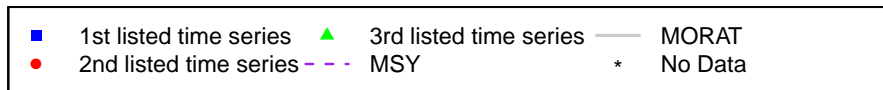
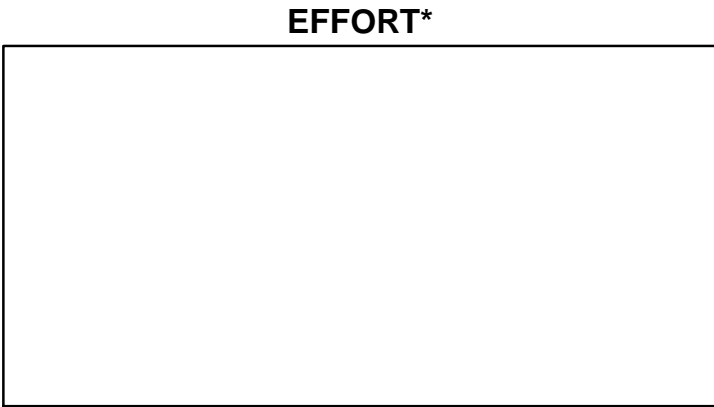
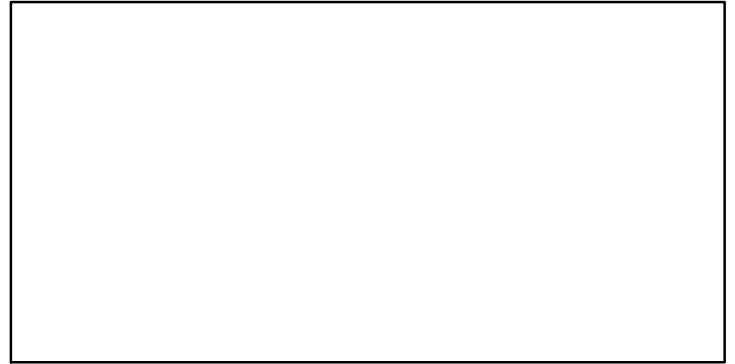
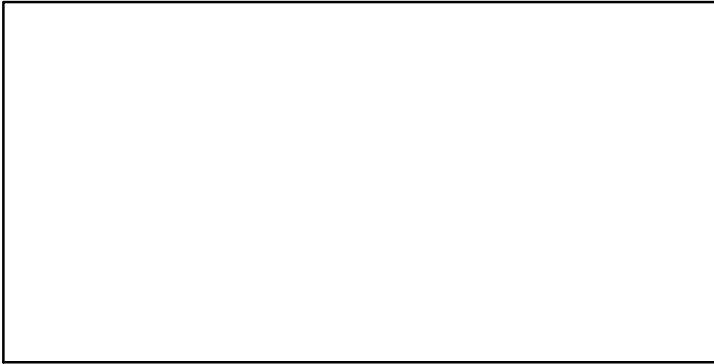
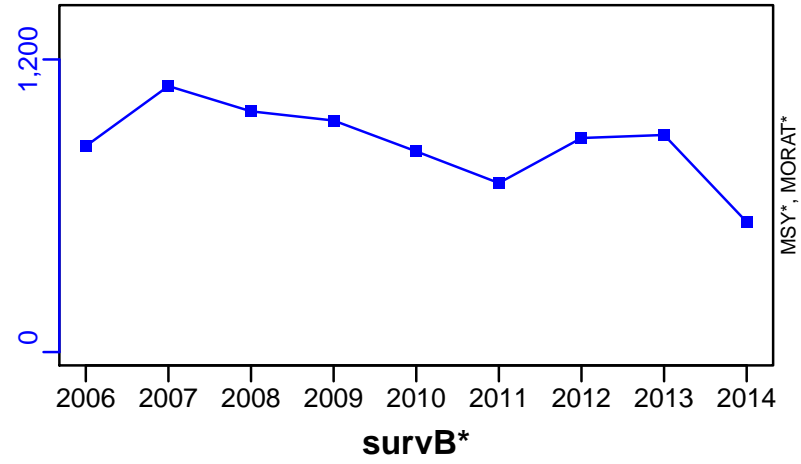
**Recruits\***



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

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

TAC\*, Cpair\*, Cadv\*





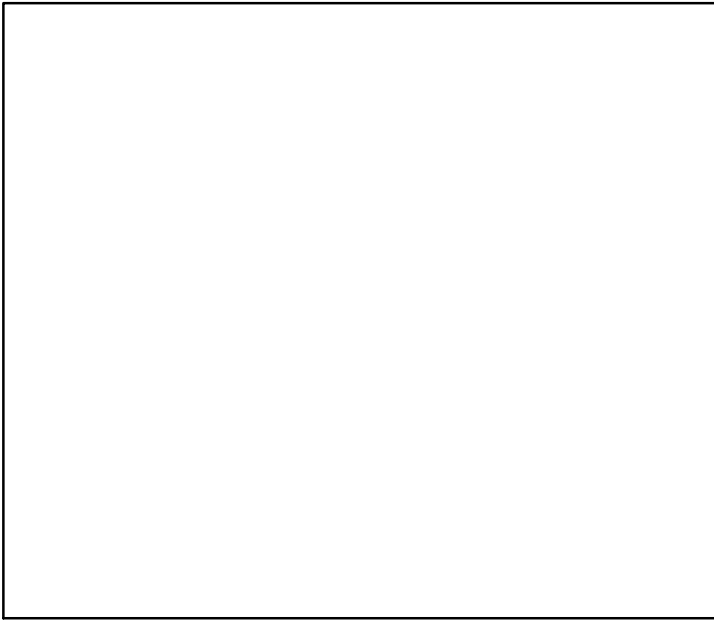
## Norway lobster Labadie, Jones and Cockburn (FU 20-21) [NEPHFU2021]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU2021-1995-2015-ICESIMP2016
<b>Area</b>	Labadie, Jones and Cockburn (FU 20-21)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

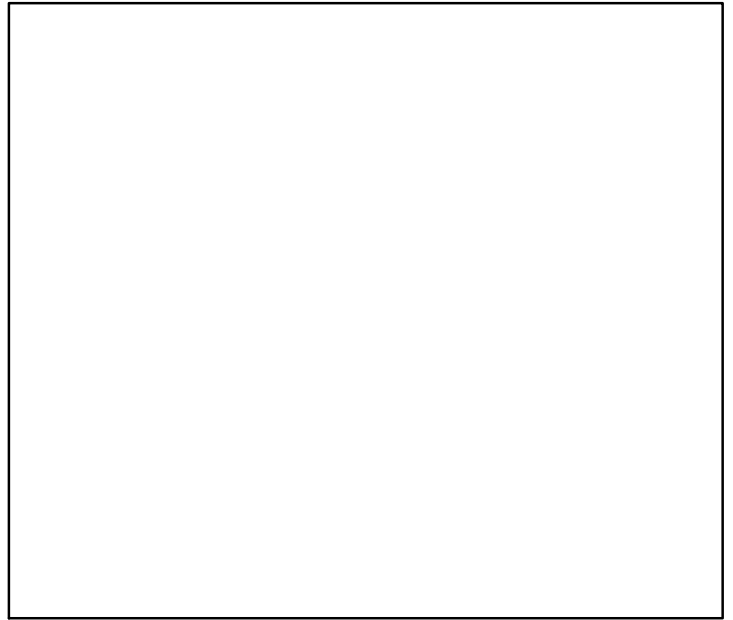
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

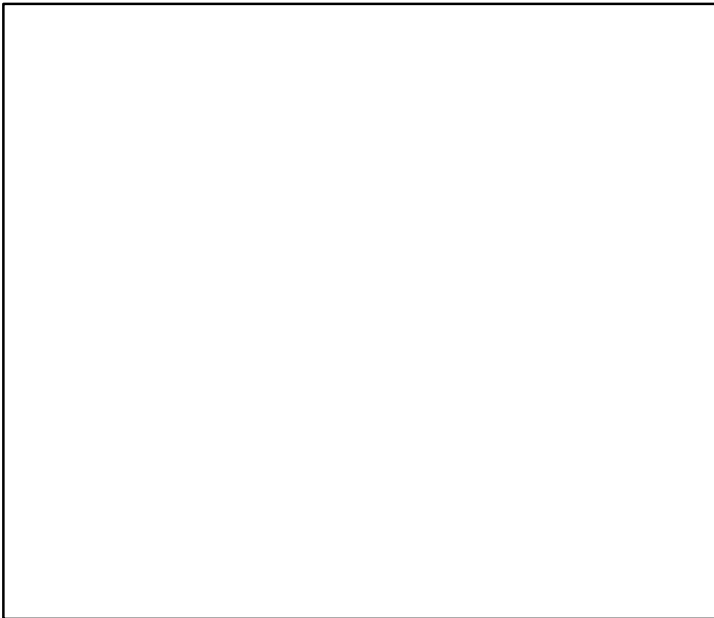
**Kobe MSY\***



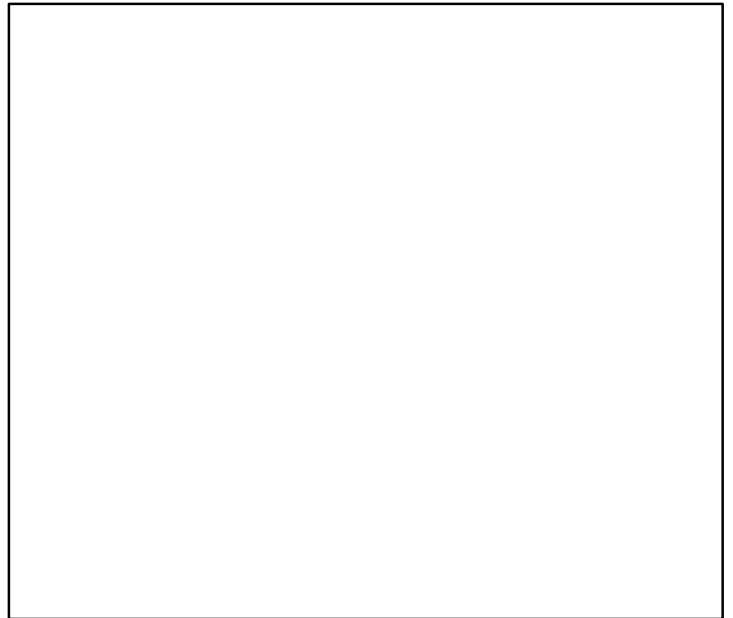
**Kobe MGT\***



**Spawner Recruit\***

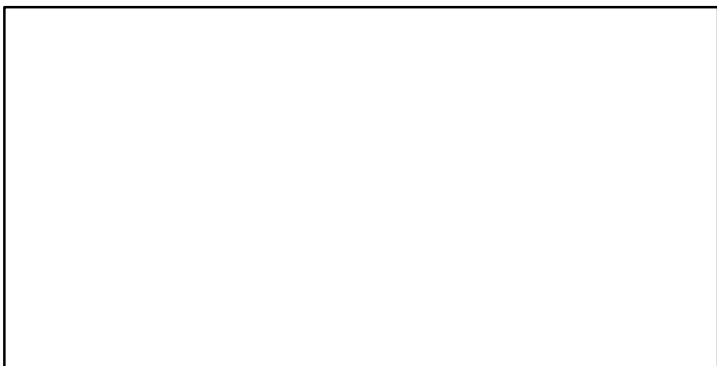


**Production\***

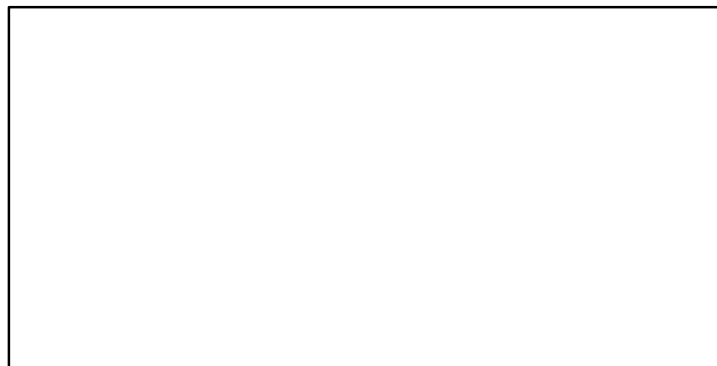


◆ Start Year   ◆ End Year   \* No Data

**TB\***



**SSB\***



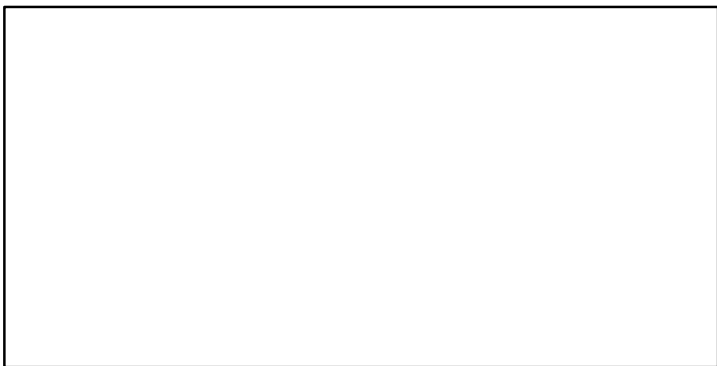
**TN \***



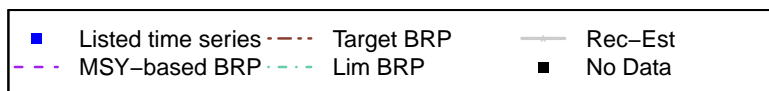
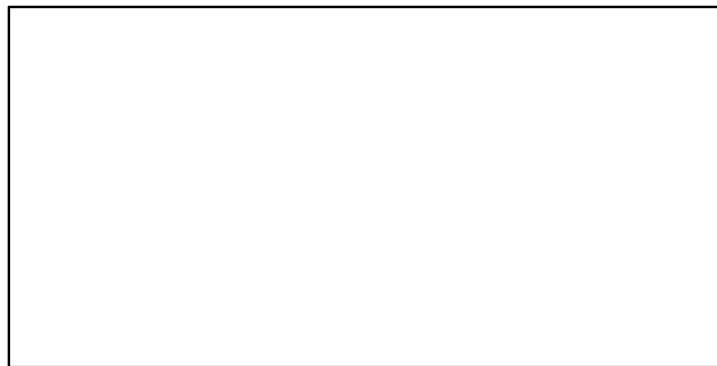
**F\***



**ER\***



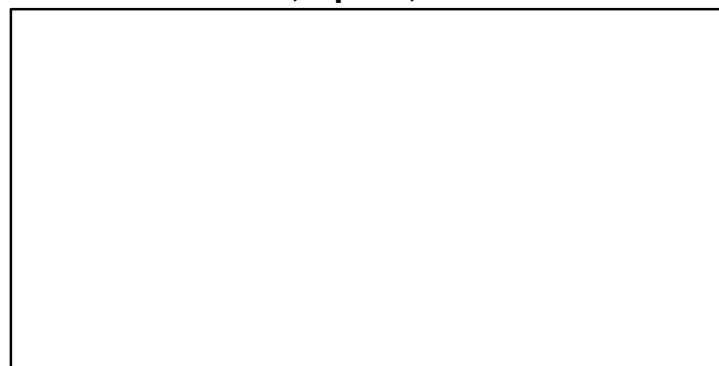
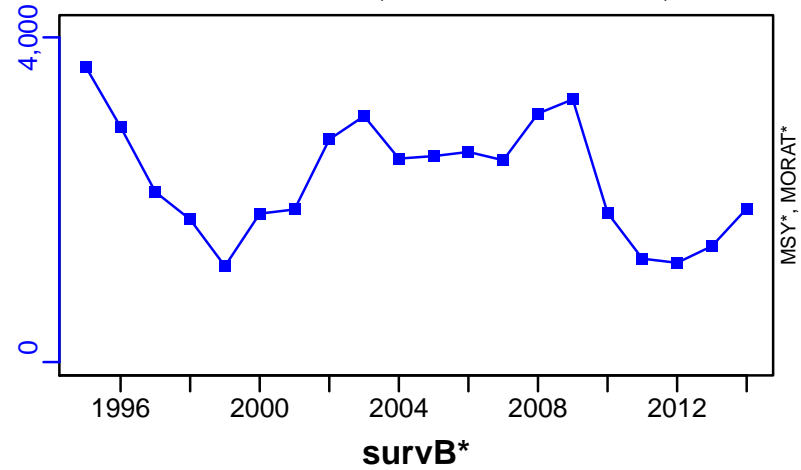
**Recruits\***



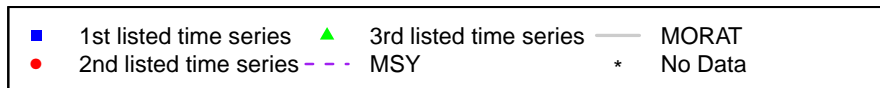
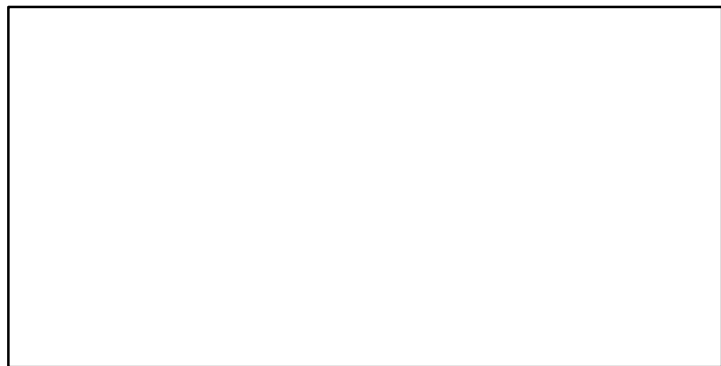
# Norway lobster Labadie, Jones and Cockburn (FU 20–21) [NEPHFU2021]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



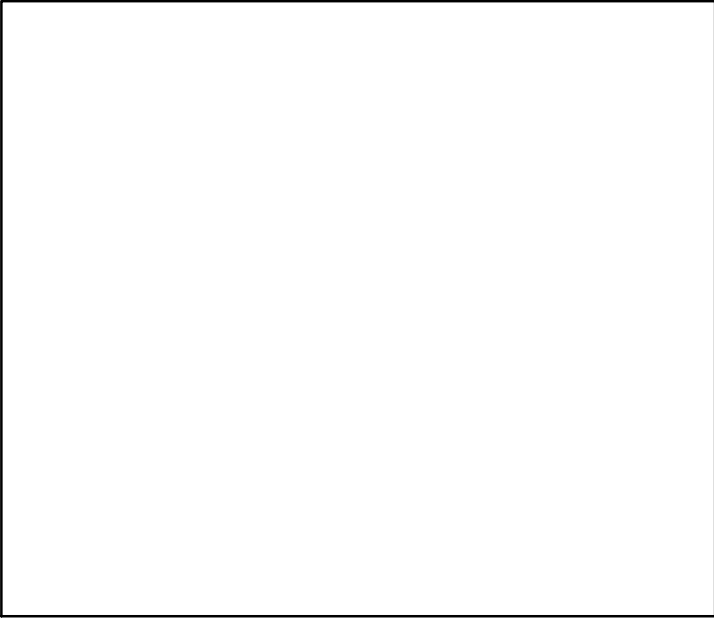
## Norway lobster Smalls (FU 22) [NEPHFU22]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGCSE-NEPHFU22-1999-2015-ICESIMP2016
<b>Area</b>	Smalls (FU 22)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

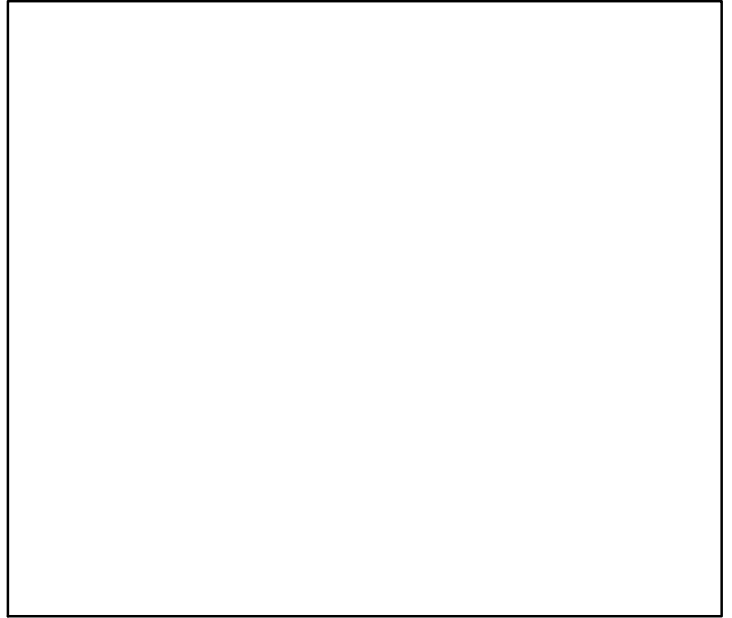
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2015	10.9
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2015	10.9
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2015	7.85	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	2610		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2015	0.72		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

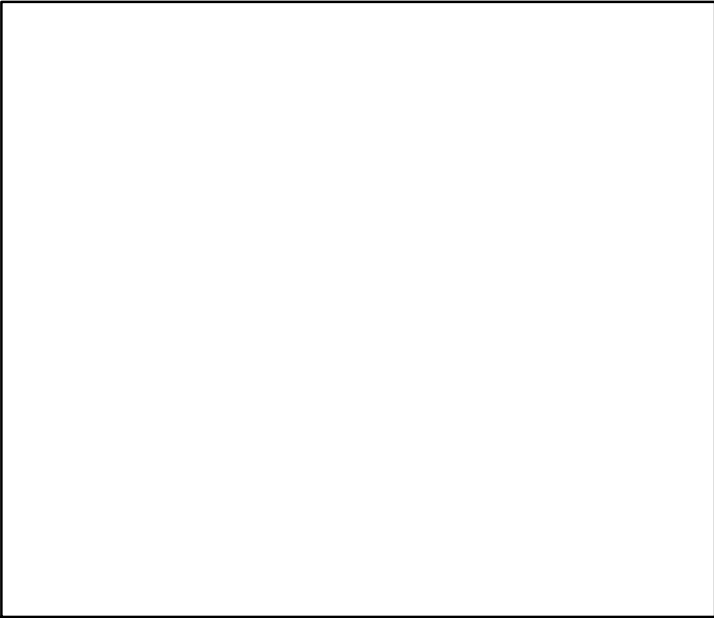
**Kobe MSY\***



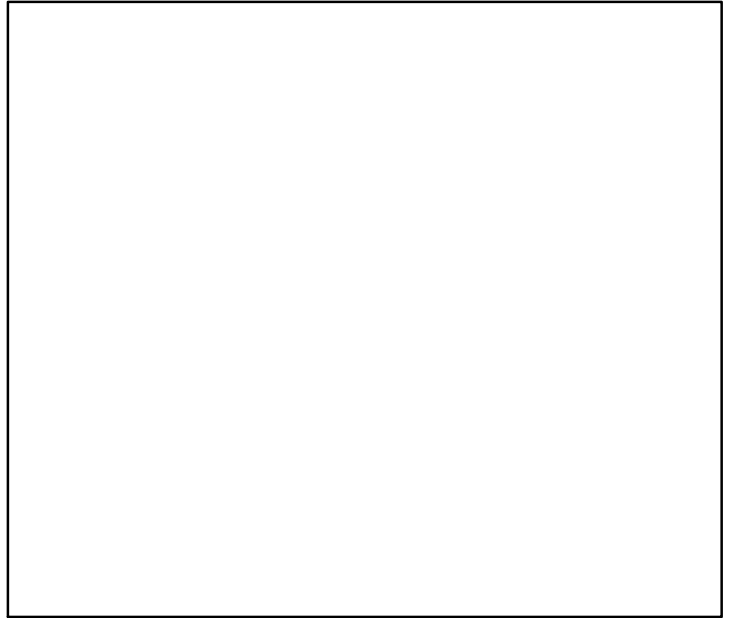
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



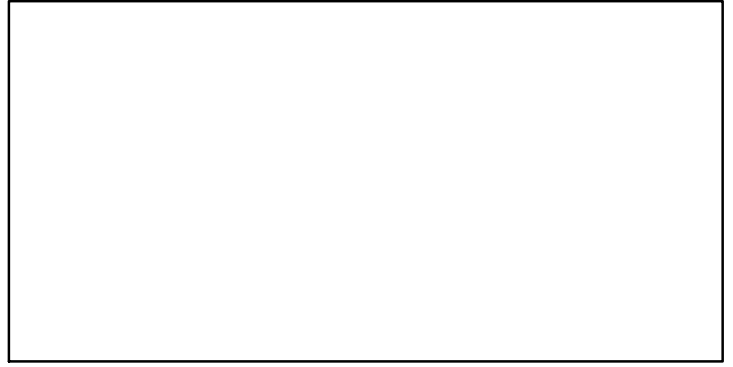
◆ Start Year   ◆ End Year   \* No Data

# Norway lobster Smalls (FU 22) [NEPHFU22]

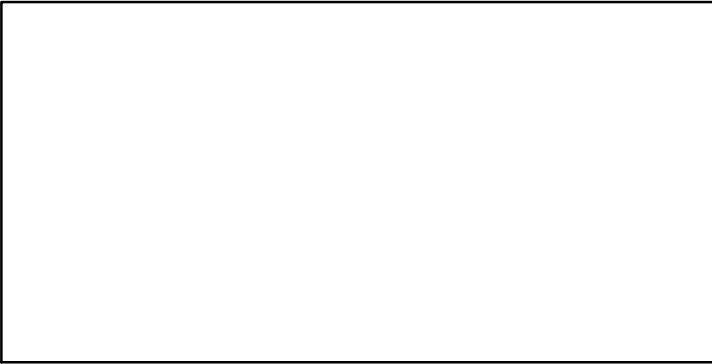
TB\*



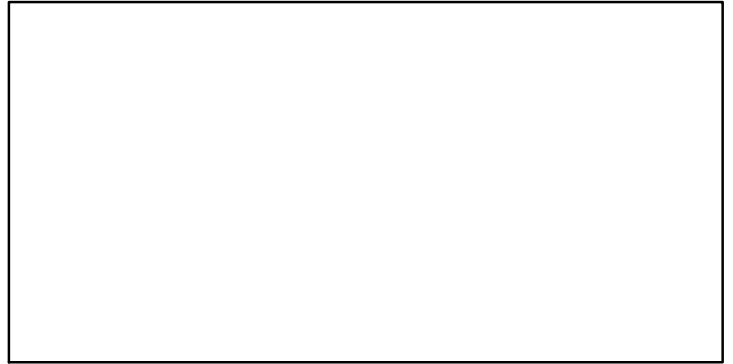
SSB\*



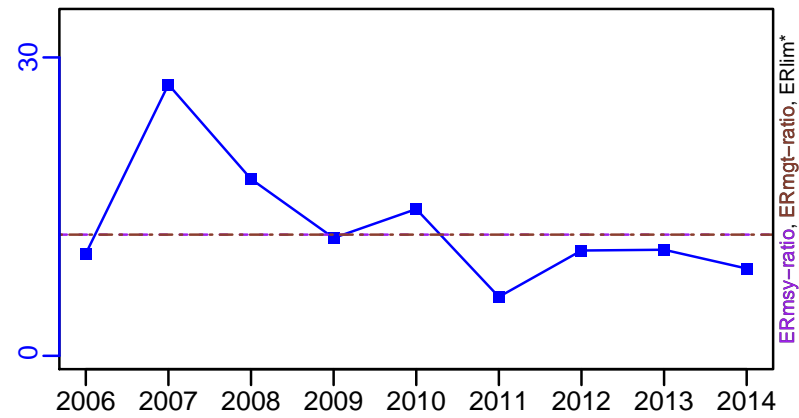
TN \*



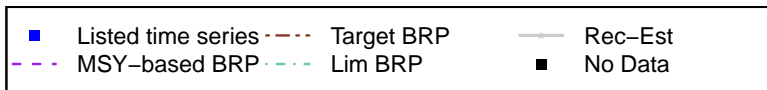
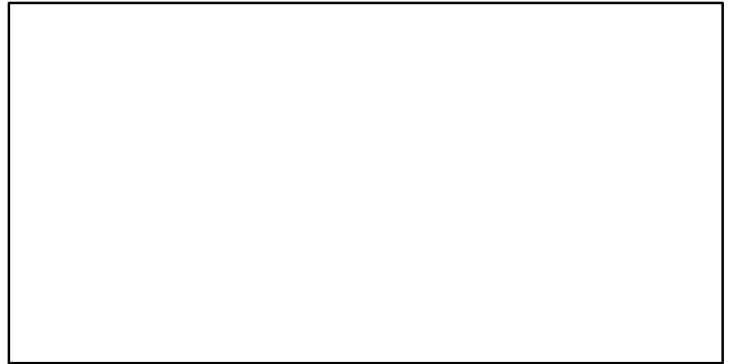
F\*



ER-ratio (1999–2015–ICESIMP2016)



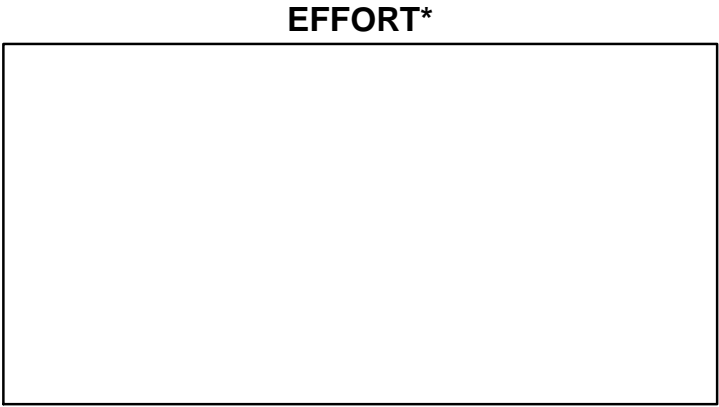
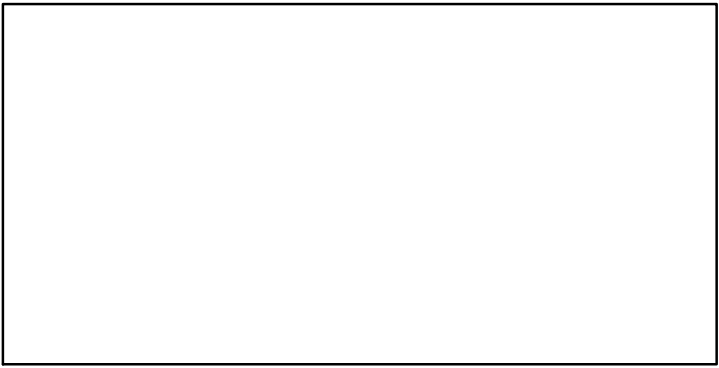
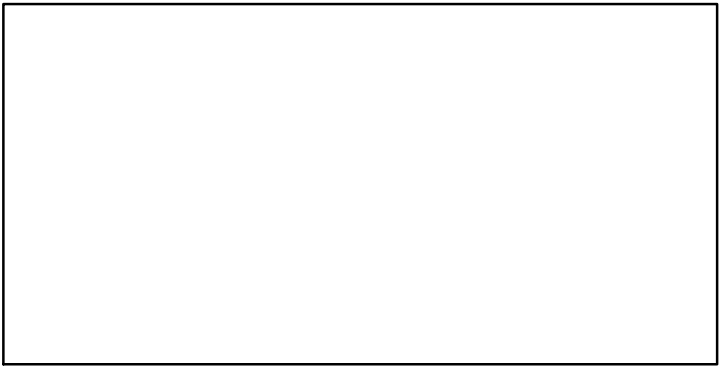
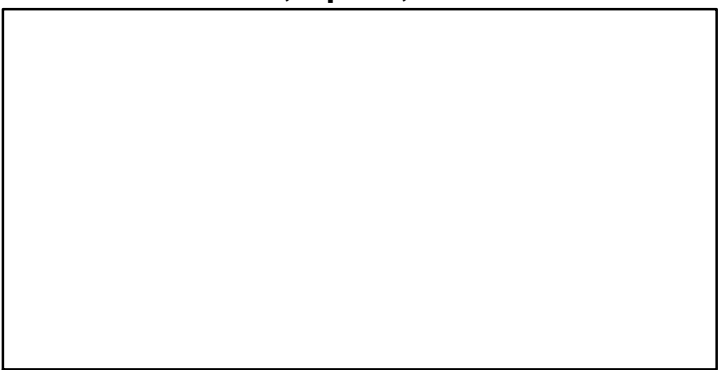
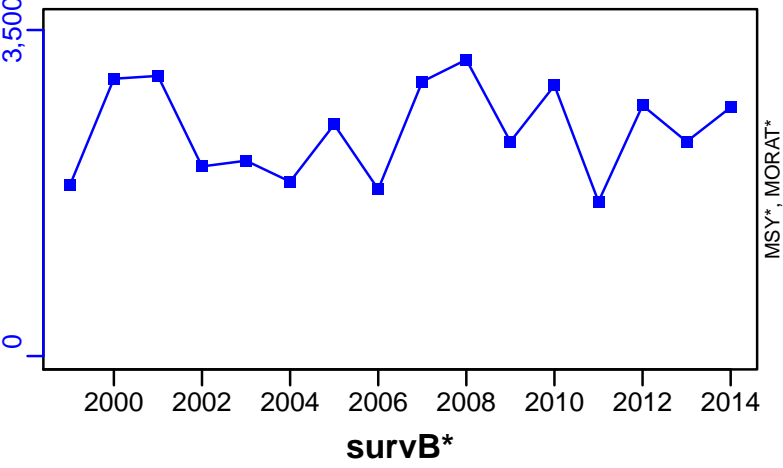
Recruits\*



# Norway lobster Smalls (FU 22) [NEPHFU22]

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

TAC\*, Cpair\*, Cadv\*





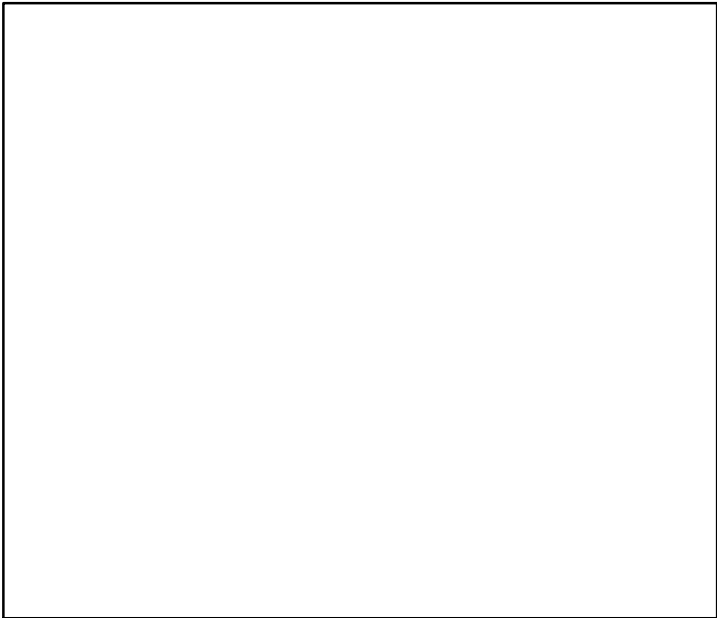
## Norway lobster North Galicia (FU 25) [NEPHFU25]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGBIE-NEPHFU25-1975-2016-ICESIMP2016
<b>Area</b>	North Galicia (FU 25)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

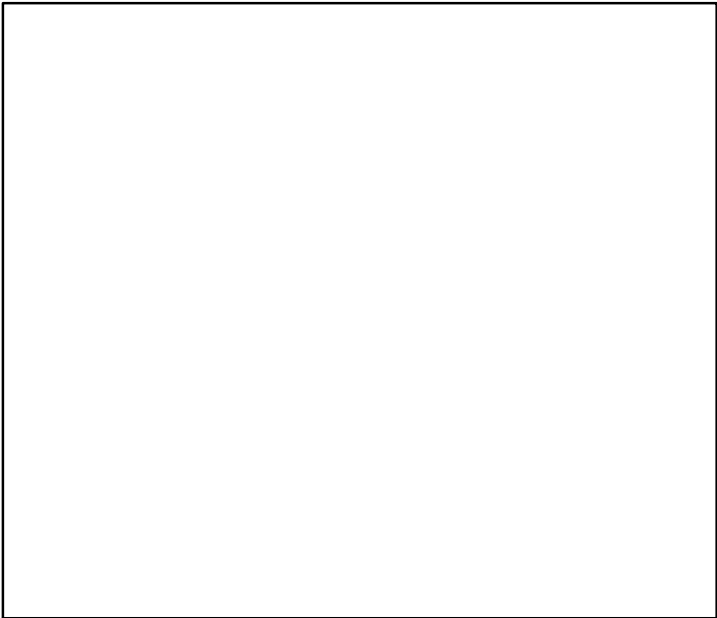
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

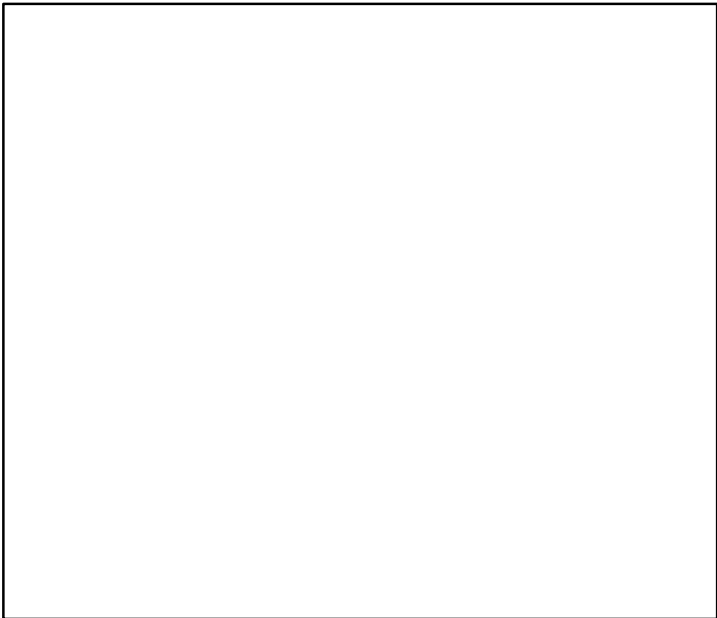
Kobe MSY\*



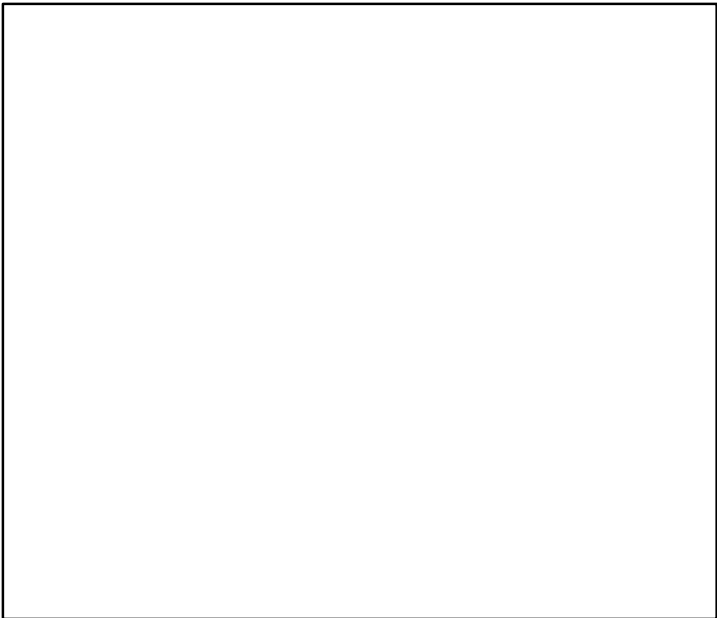
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



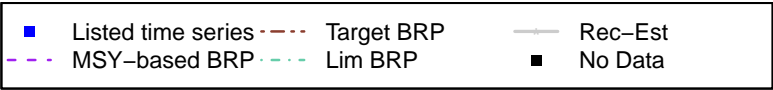
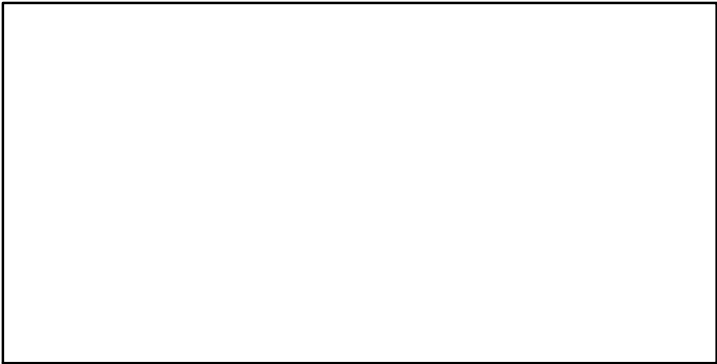
F\*



ER\*

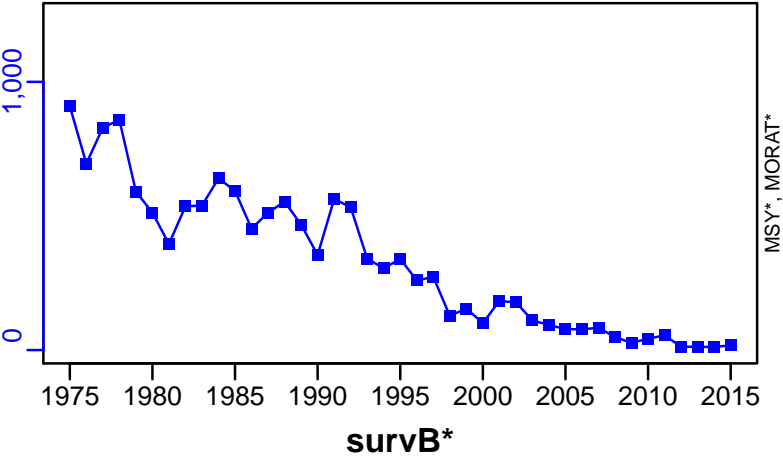


Recruits\*

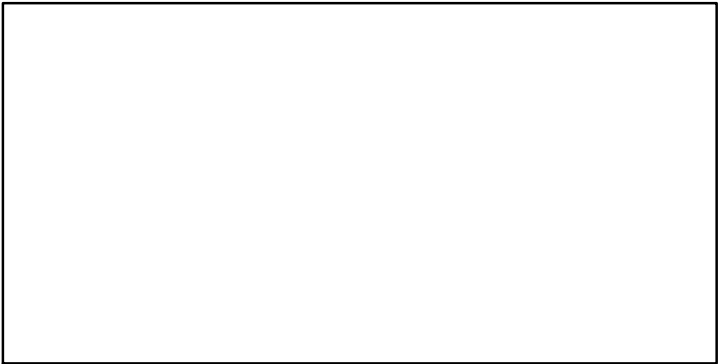


Norway lobster North Galicia (FU 25) [NEPHFU25]

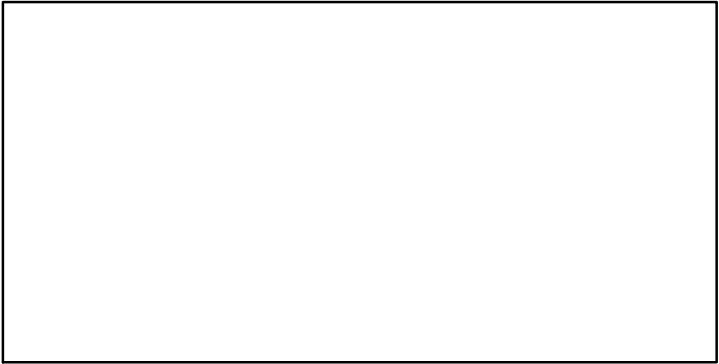
TL-MT, TC\*, RecC\* (1975–2016–ICESIMP2016)



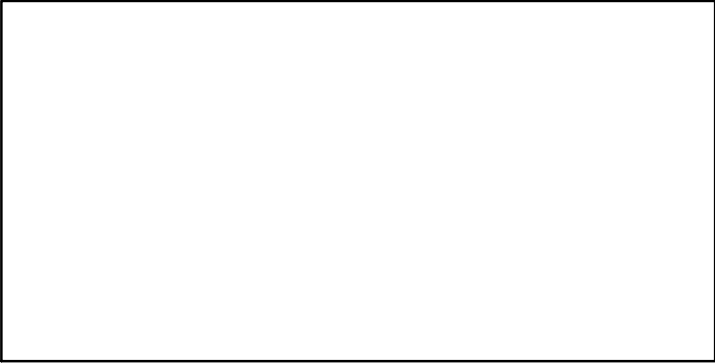
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



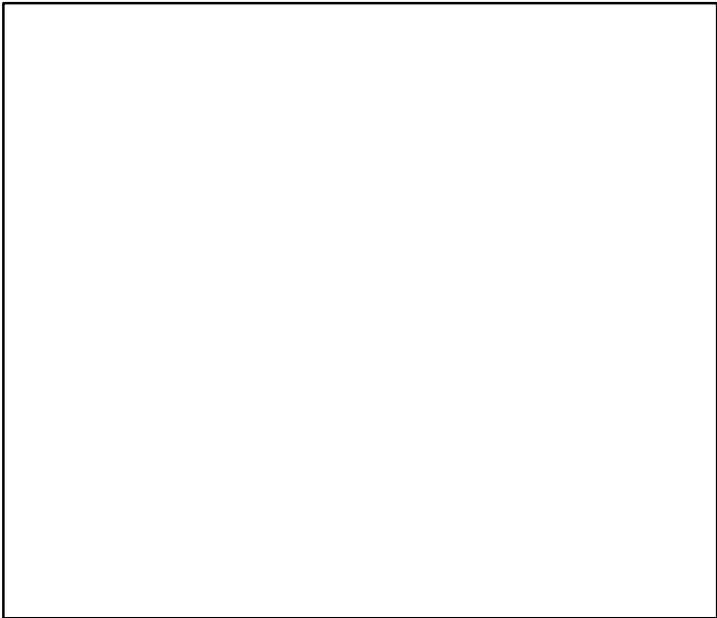
## Norway lobster West Galicia and North Portugal (FU 26-27) [NEPHFU2627]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGBIE-NEPHFU2627-1975-2016-ICESIMP2016
<b>Area</b>	West Galicia and North Portugal (FU 26-27)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

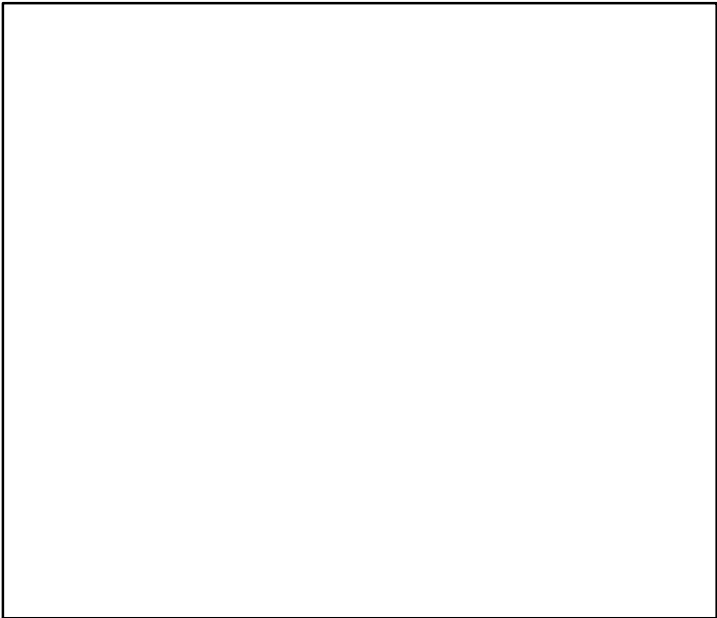
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

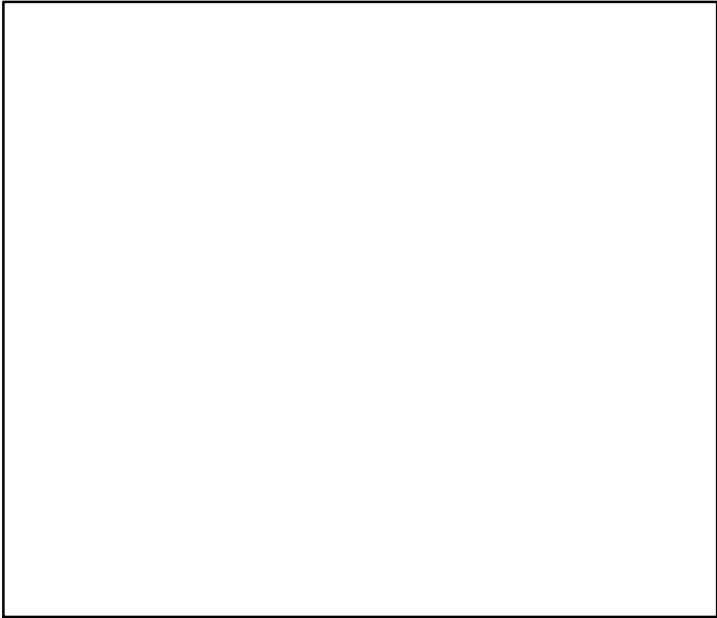
Kobe MSY\*



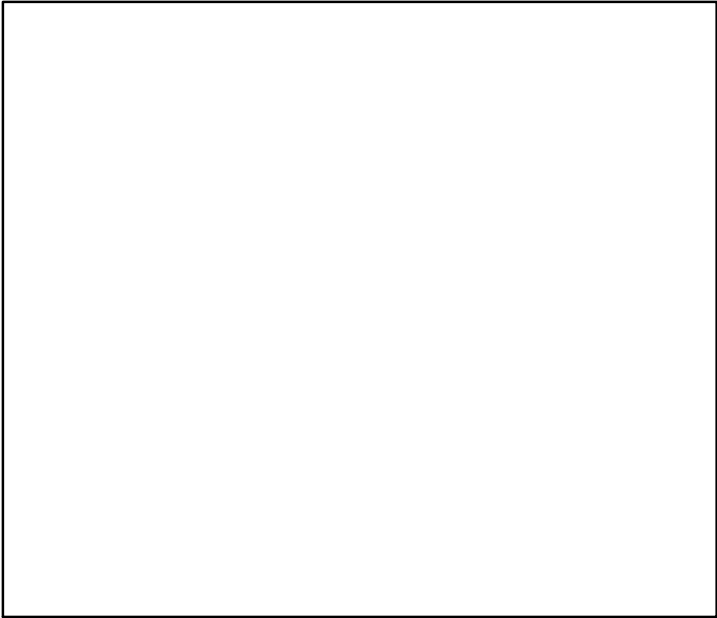
Kobe MGT\*



Spawner Recruit\*



Production\*

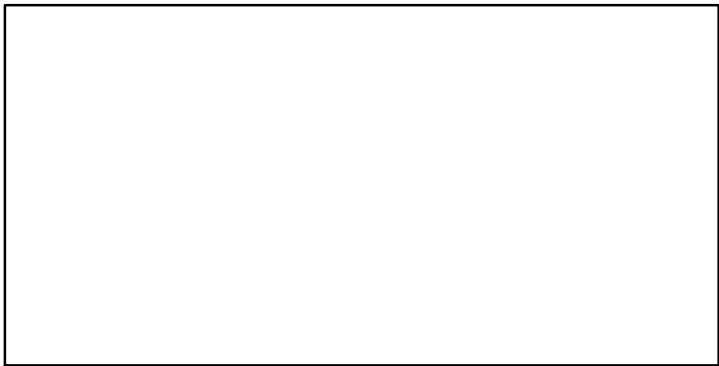


◆ Start Year   ◆ End Year   \* No Data

**TB\***



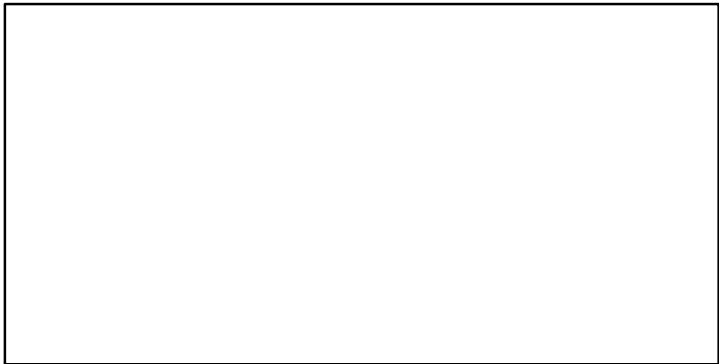
**SSB\***



**TN \***



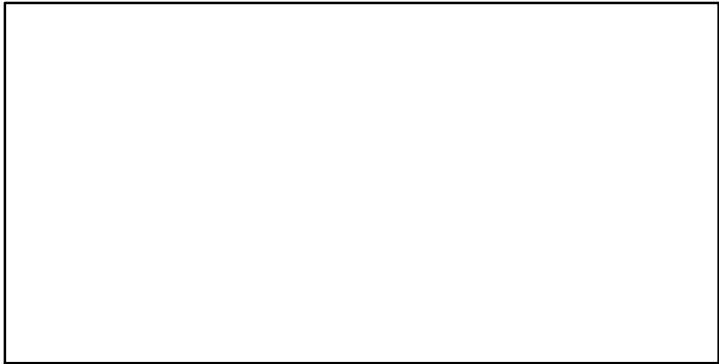
**F\***



**ER\***

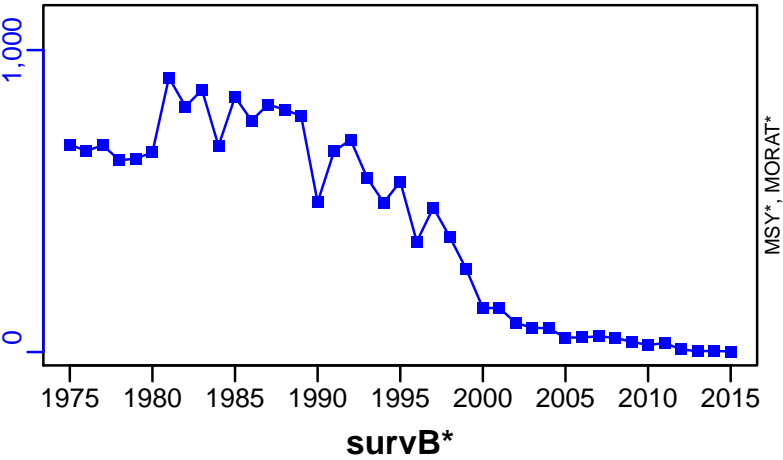


**Recruits\***



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

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



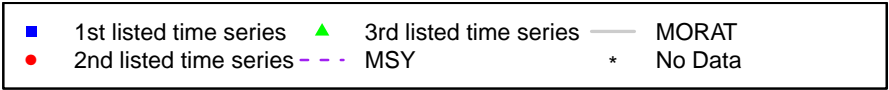
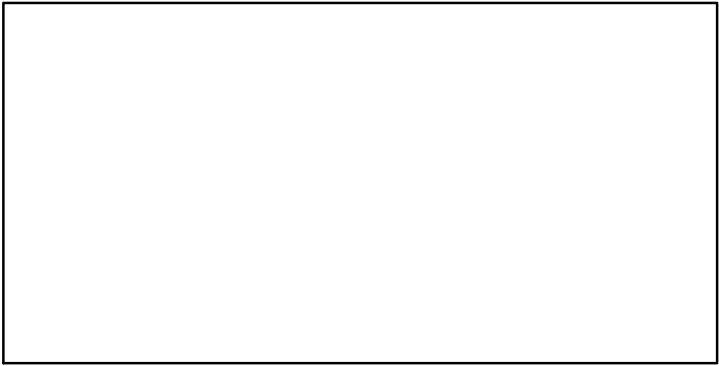
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





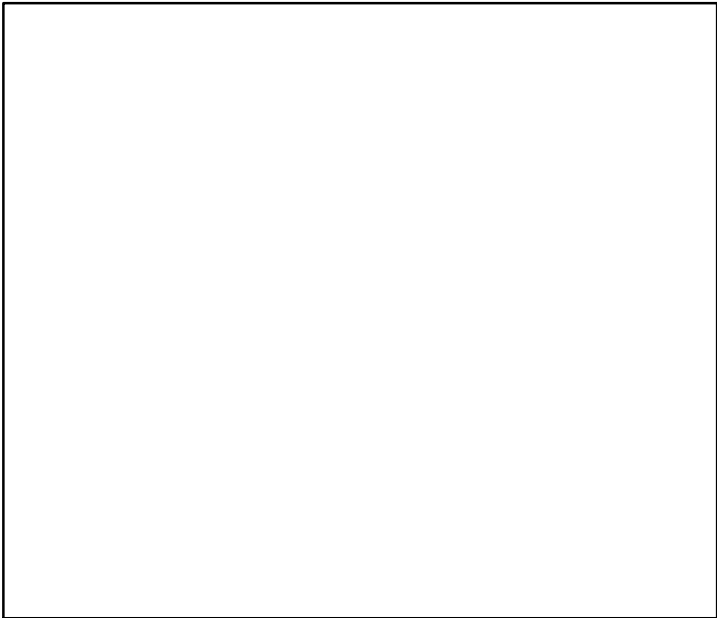
## Norway lobster South-West and South Portugal (FU 28-29) [NEPHFU2829]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGBIE-NEPHFU2829-1984-2016-ICESIMP2016
<b>Area</b>	South-West and South Portugal (FU 28-29)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

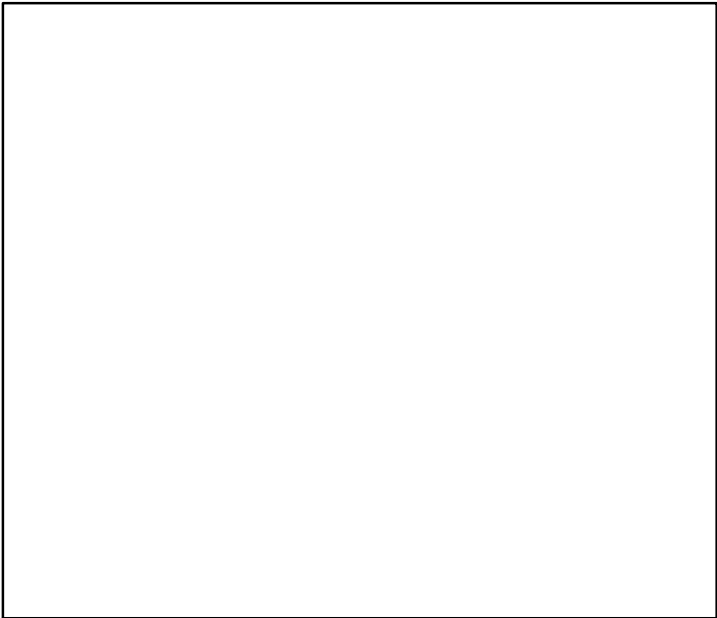
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

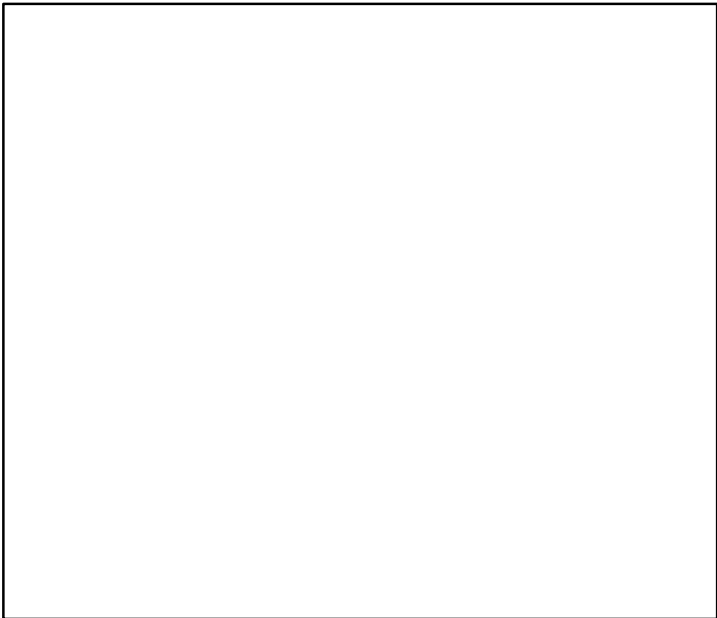
Kobe MSY\*



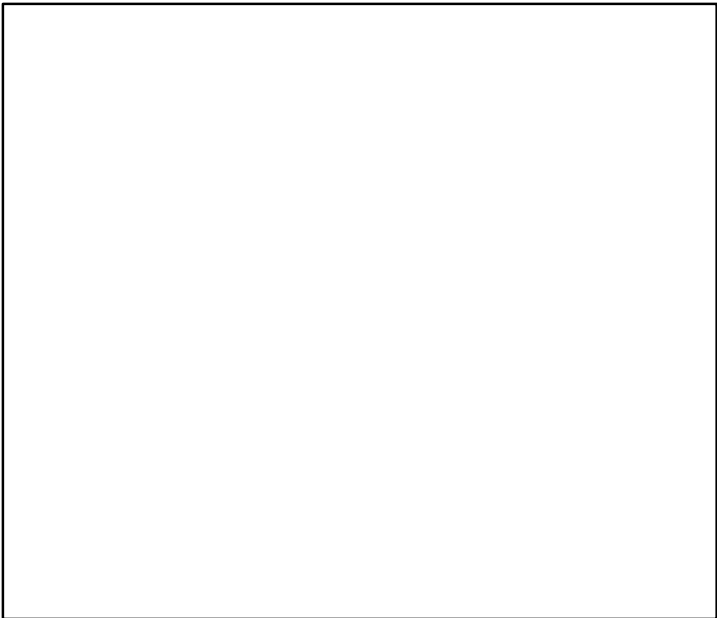
Kobe MGT\*



Spawner Recruit\*



Production\*

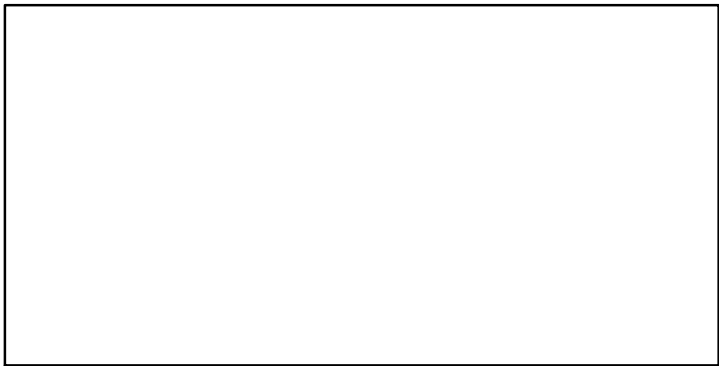


◆ Start Year    ◆ End Year    \* No Data

**TB\***



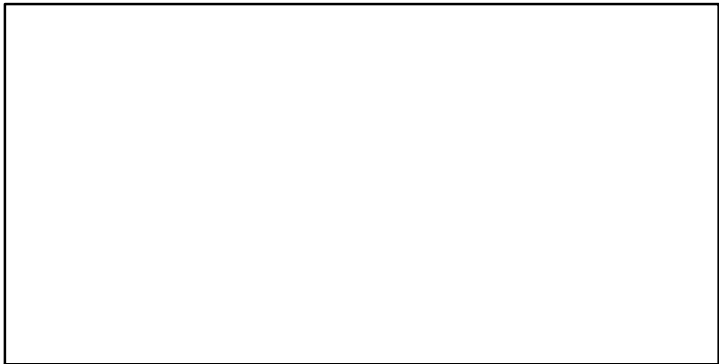
**SSB\***



**TN \***



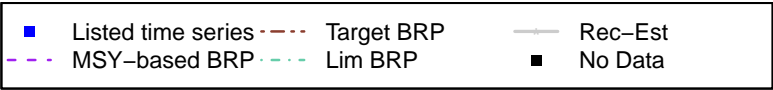
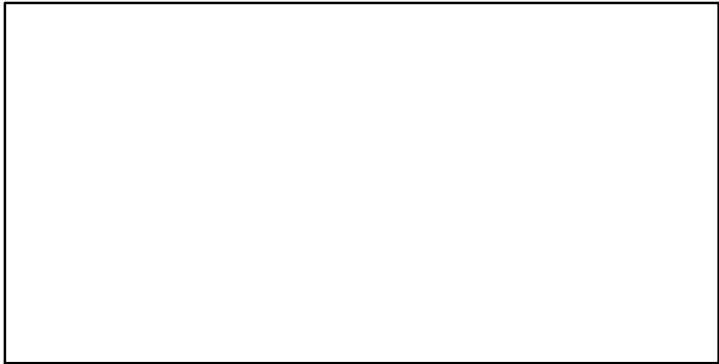
**F\***



**ER\***

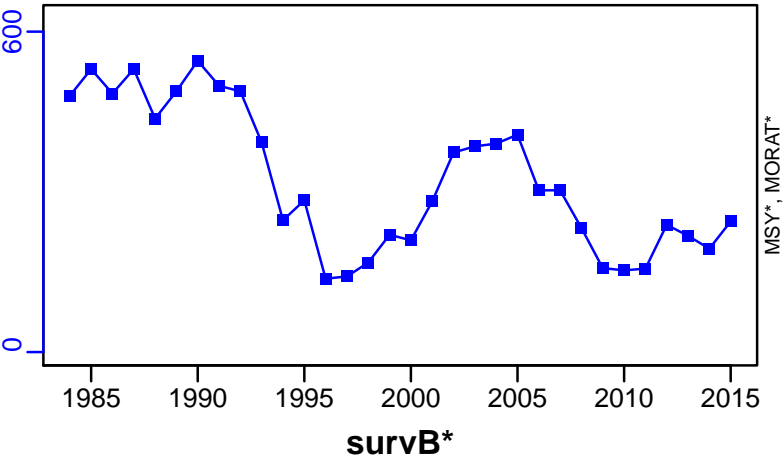


**Recruits\***



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

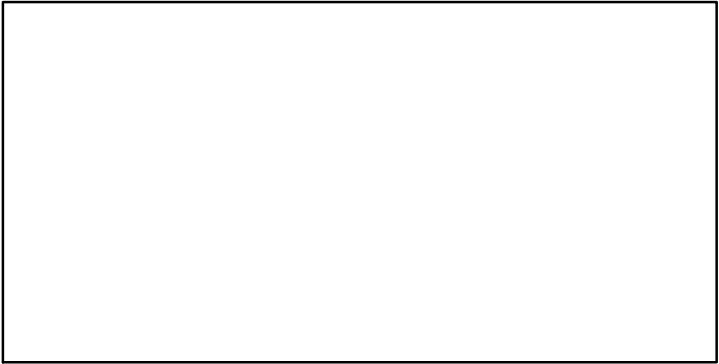
TL-MT, TC\*, RecC\* (1984-2016-ICESIMP2016)



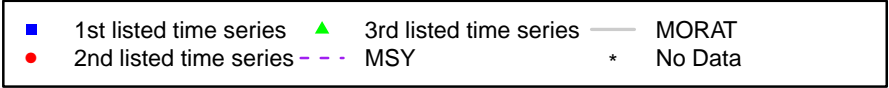
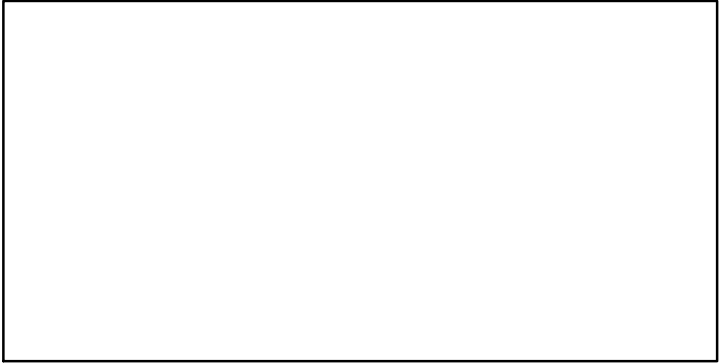
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



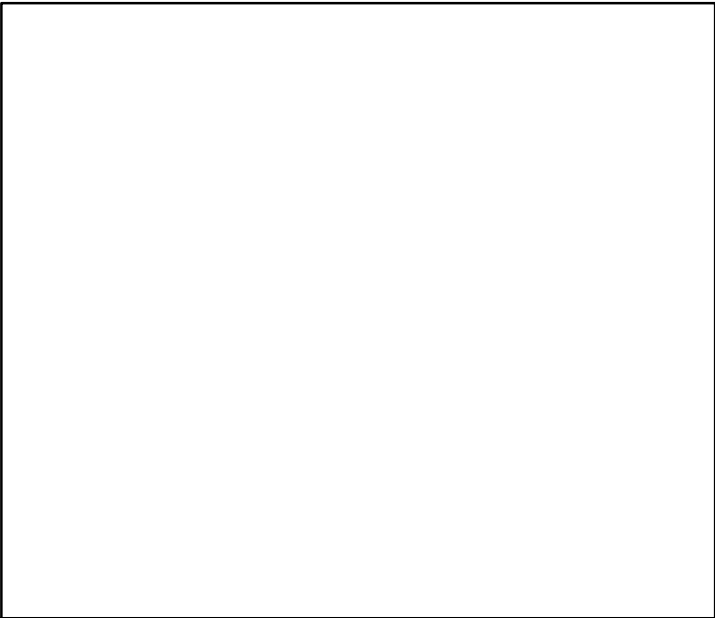
## Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGBIE-NEPHFU30-1994-2016-ICESIMP2016
<b>Area</b>	Gulf of Cadiz (FU 30)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

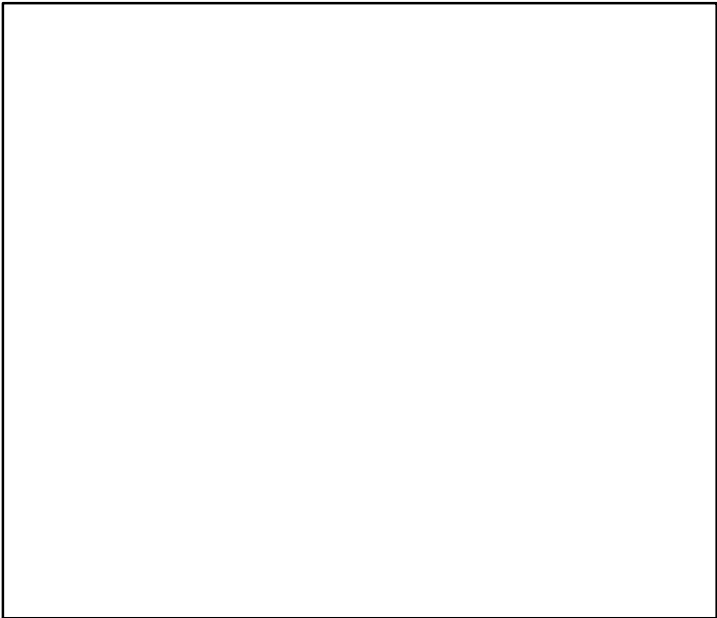
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	25		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

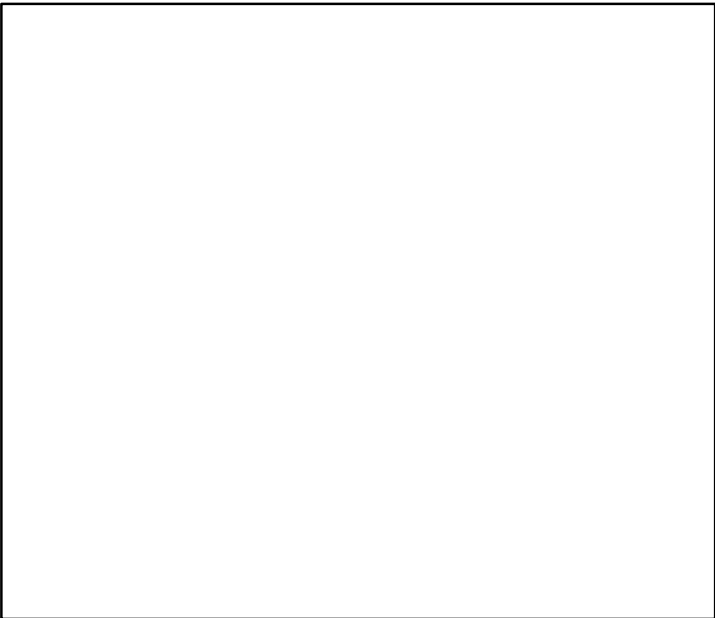
Kobe MSY\*



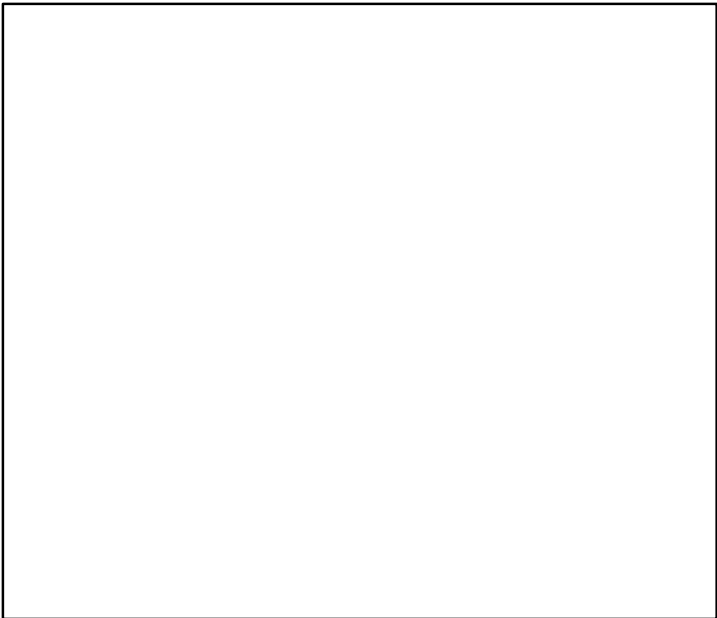
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



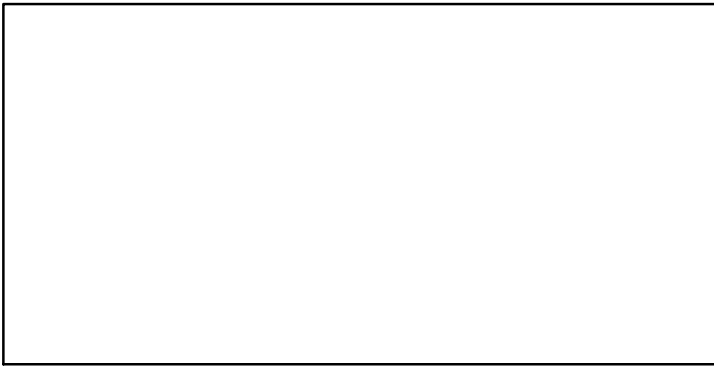
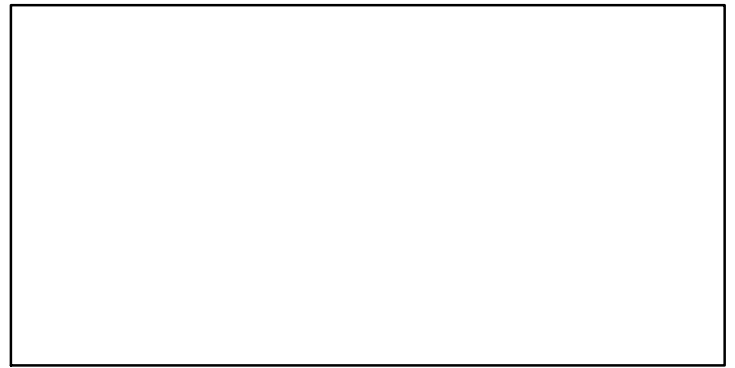
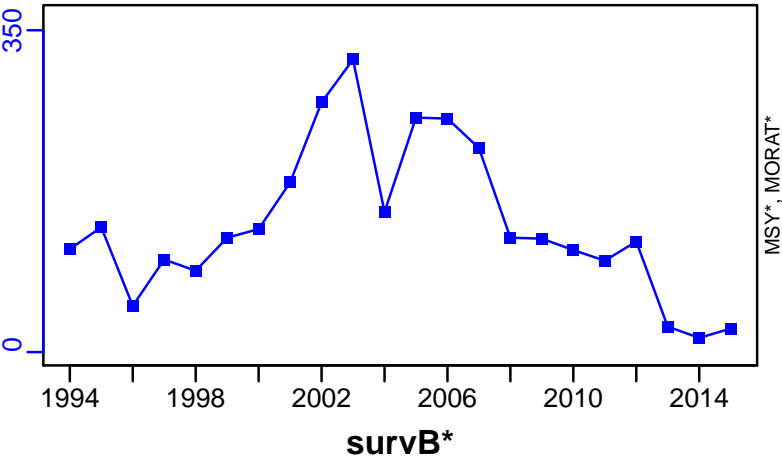
Recruits\*



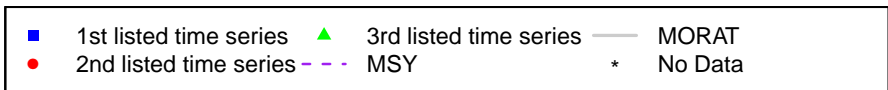
# Norway lobster Gulf of Cadiz (FU 30) [NEPHFU30]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



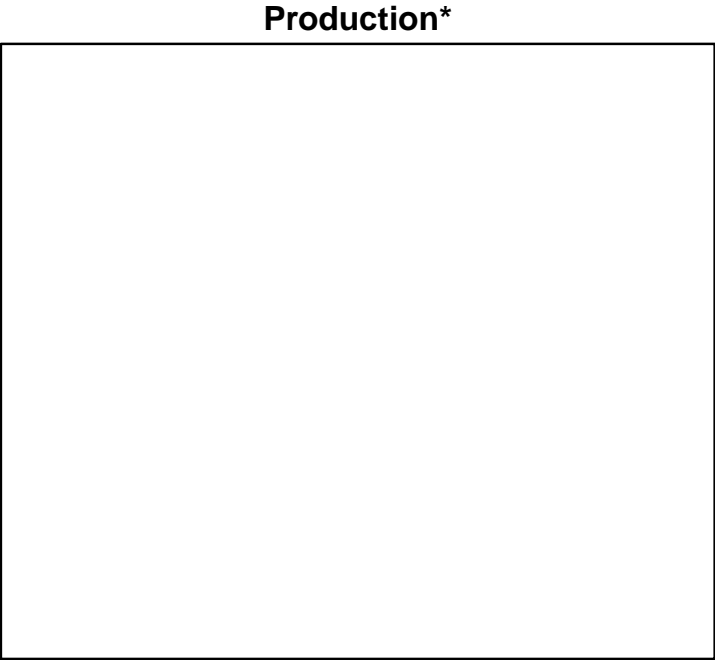
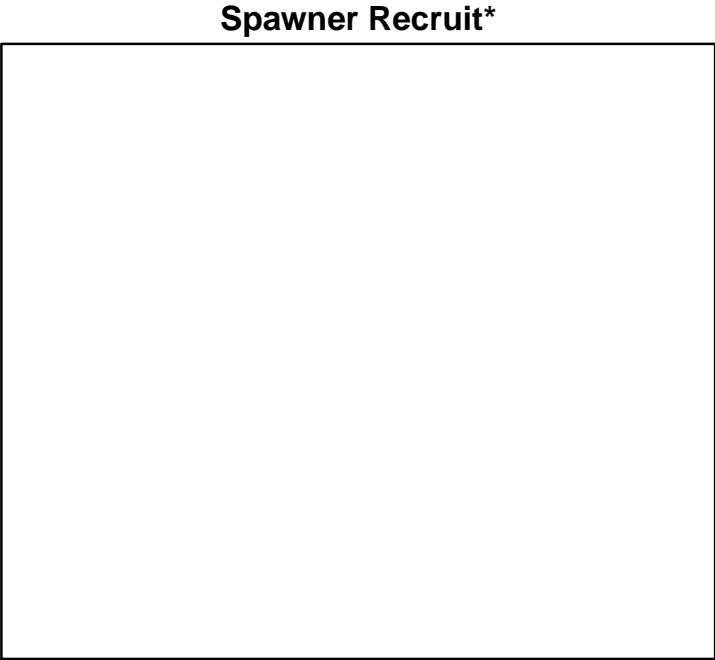
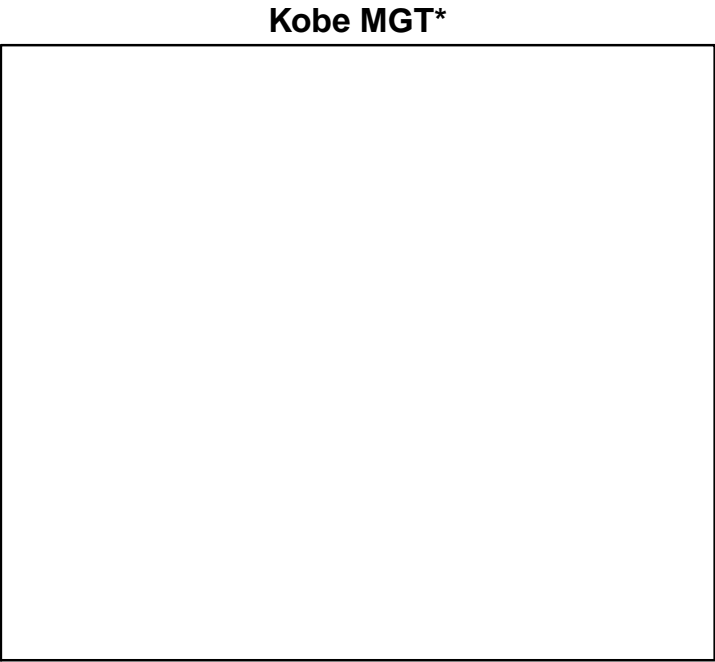
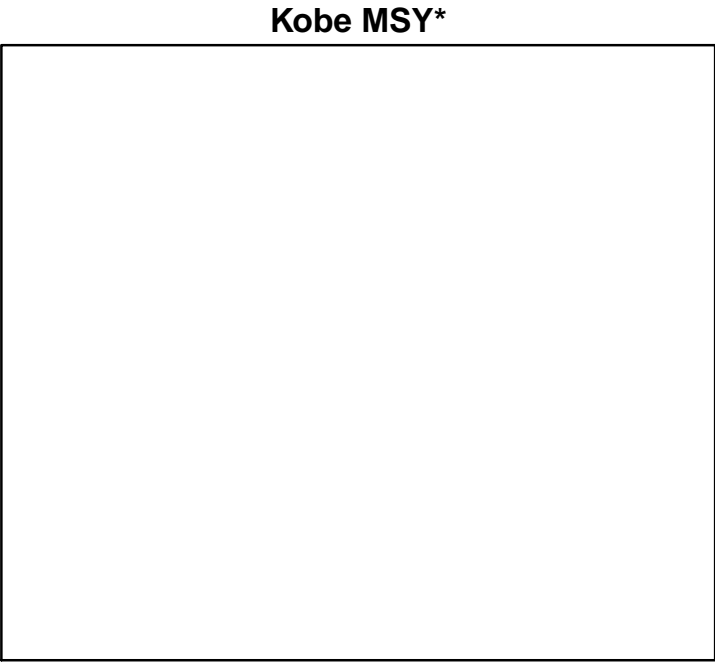


## Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGBIE-NEPHFU31-1983-2016-ICESIMP2016
<b>Area</b>	Cantabrian Sea (FU 31)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	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	-	-	-		



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



TN \*



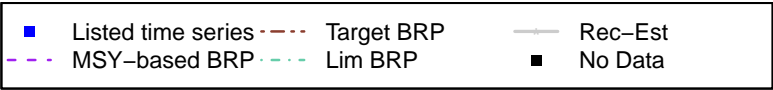
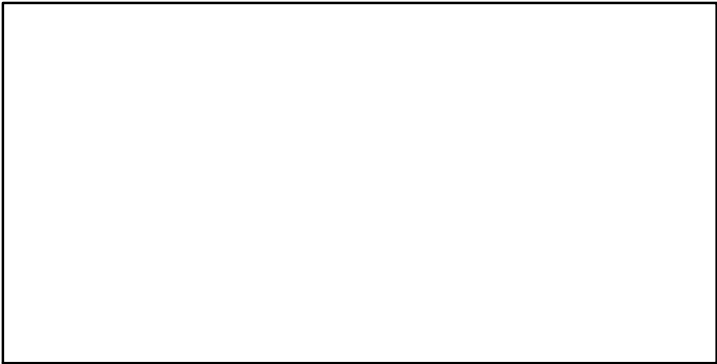
F\*



ER\*

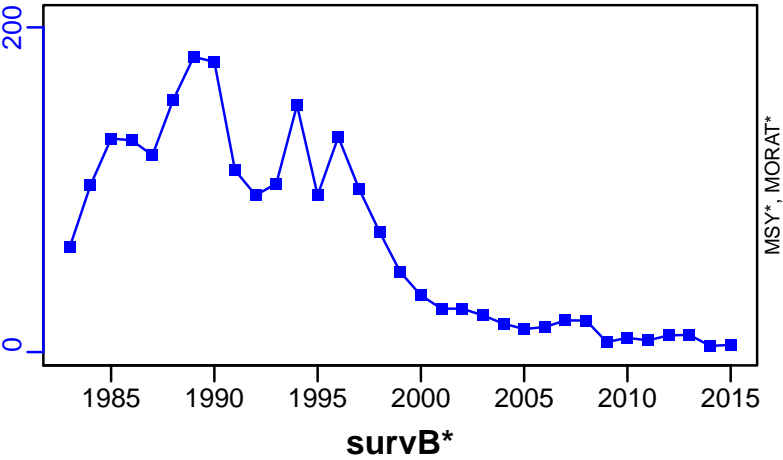


Recruits\*



Norway lobster Cantabrian Sea (FU 31) [NEPHFU31]

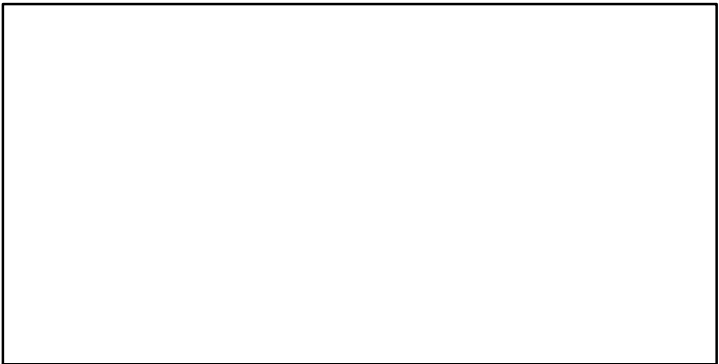
TL-MT, TC\*, RecC\* (1983-2016-ICESIMP2016)



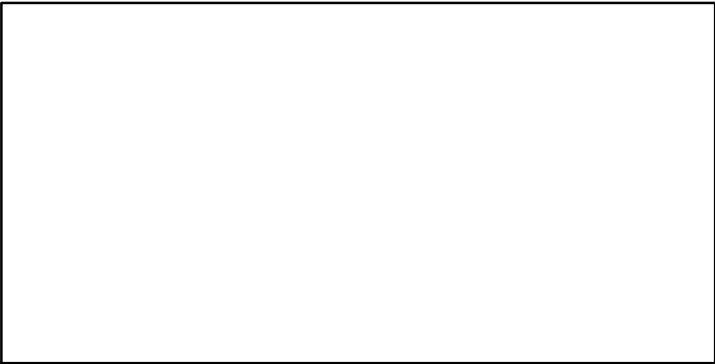
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



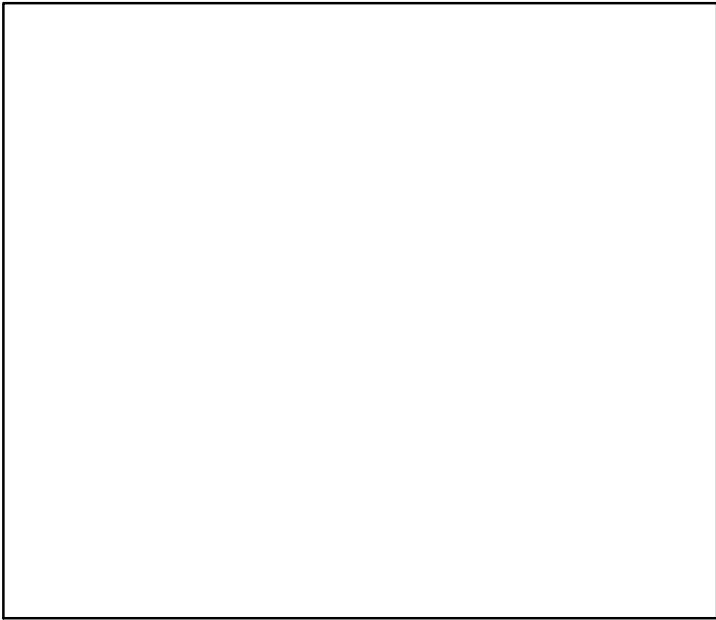
## Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU32-1987-2016-ICESIMP2016
<b>Area</b>	Norwegian Deeps (FU 32)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016

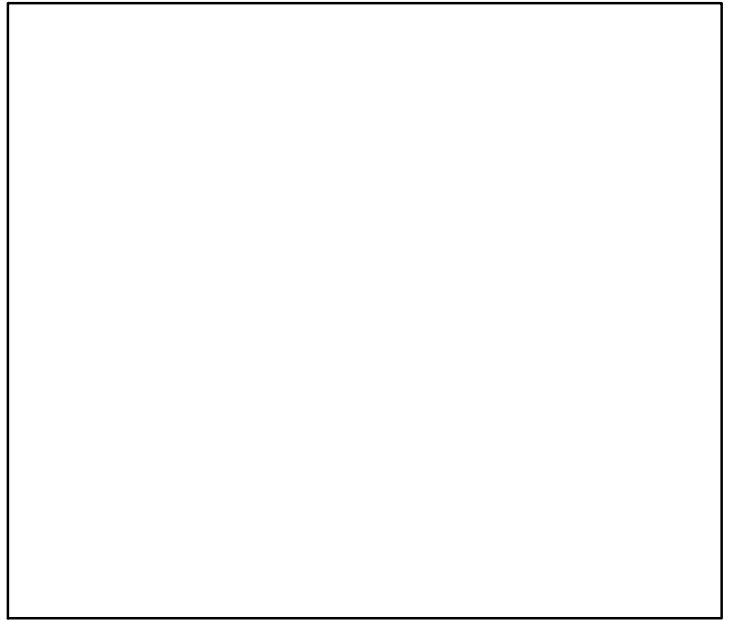
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

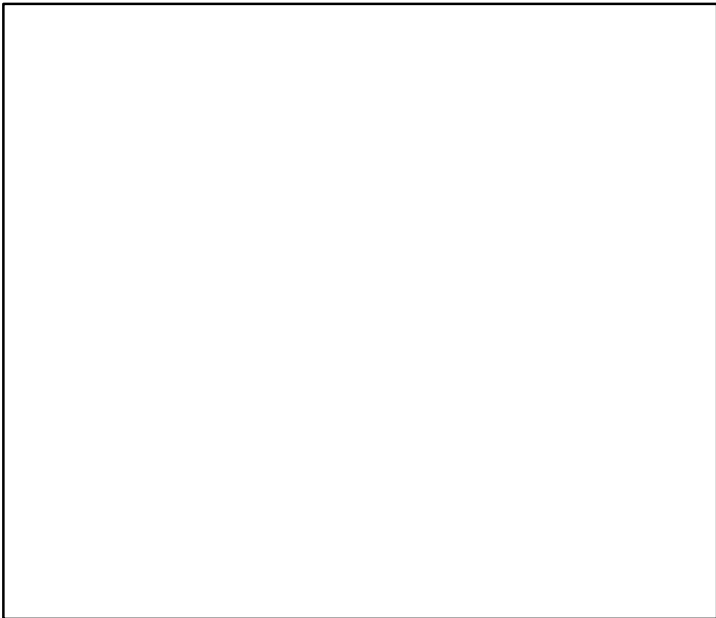
Kobe MSY\*



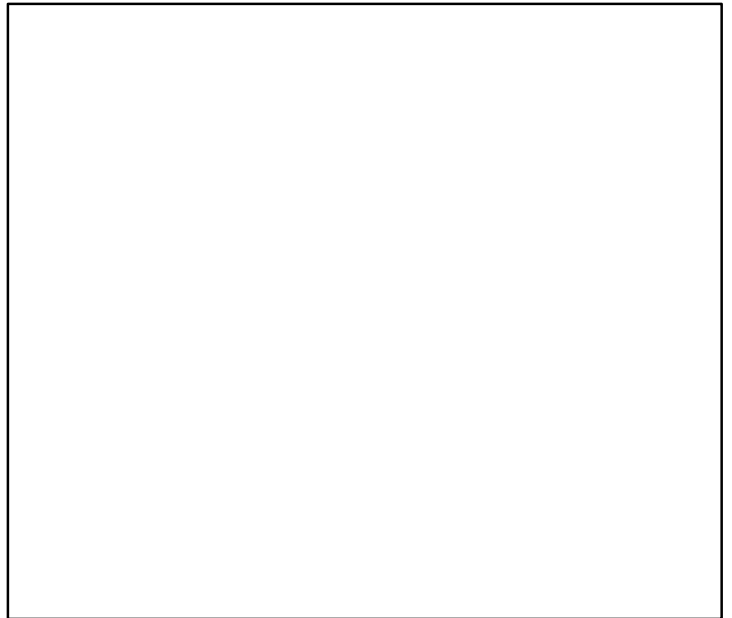
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year ◆ End Year \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

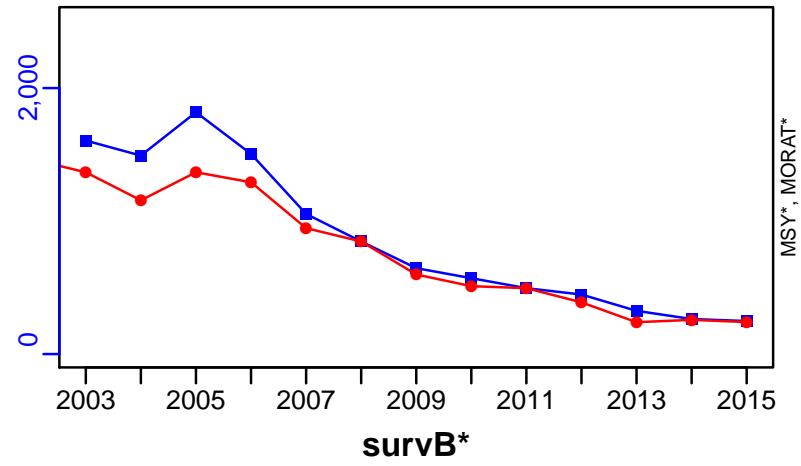


Recruits\*

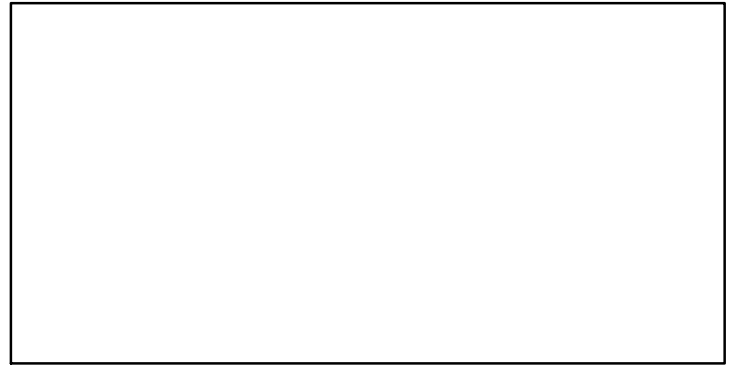


# Norway lobster Norwegian Deeps (FU 32) [NEPHFU32]

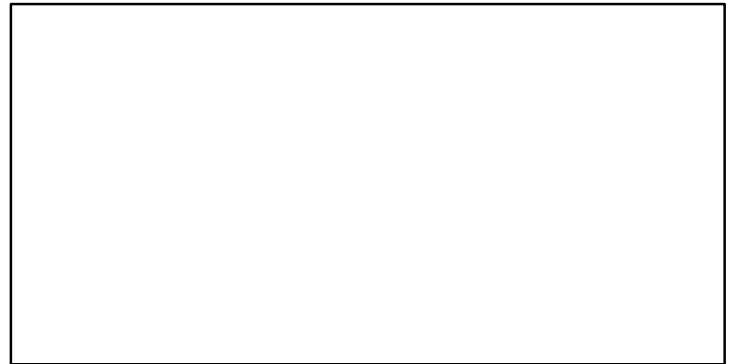
TC-MT, TL-MT, RecC\* (1987–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



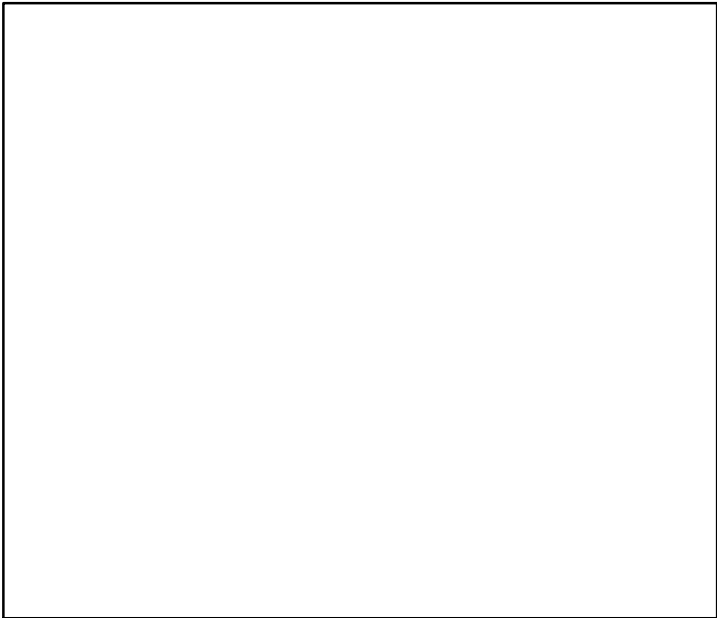
## Norway lobster Off Horn Reef (FU 33) [NEPHFU33]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU33-1993-2016-ICESIMP2016
<b>Area</b>	Off Horn Reef (FU 33)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016

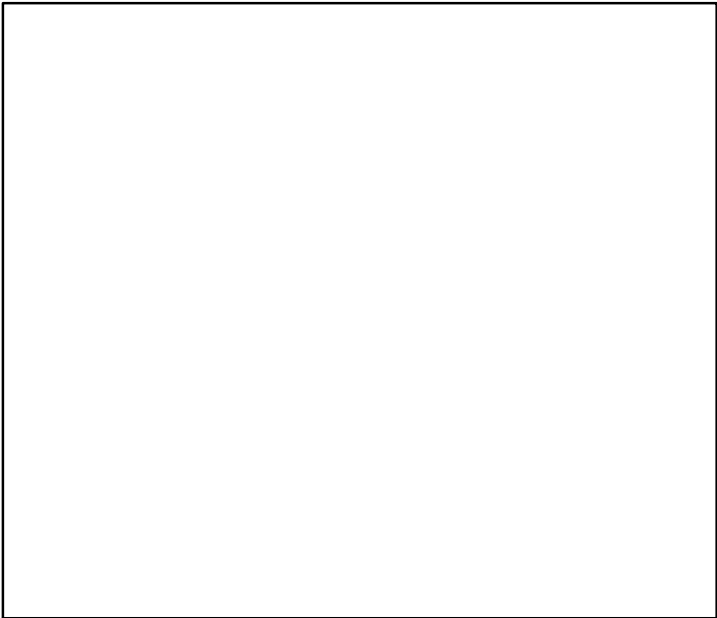
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

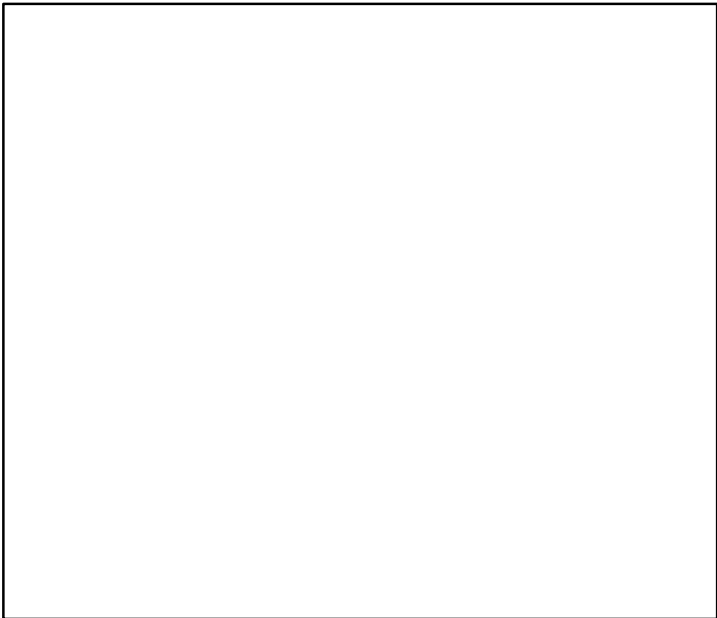
Kobe MSY\*



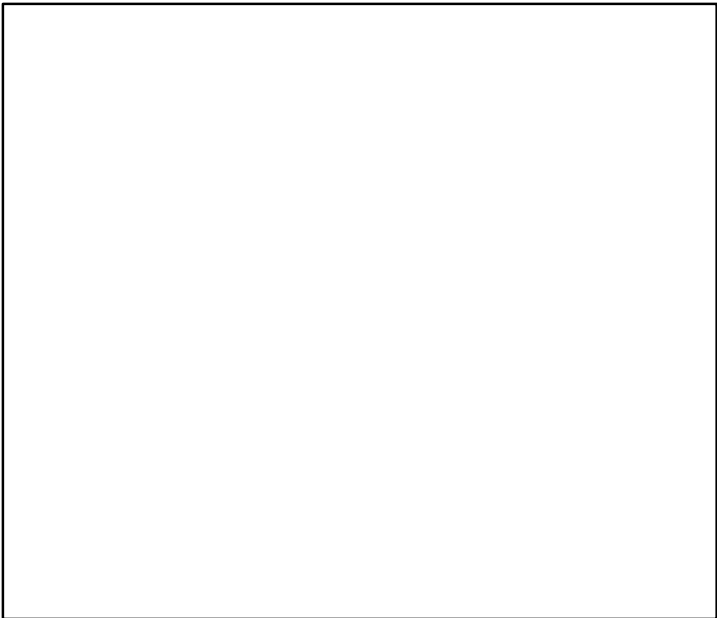
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



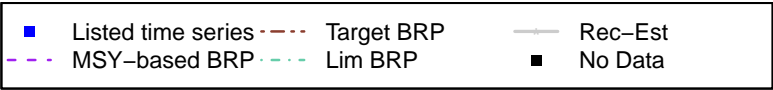
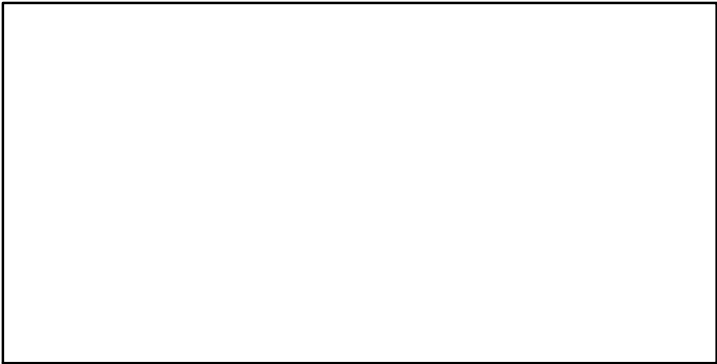
F\*



ER\*

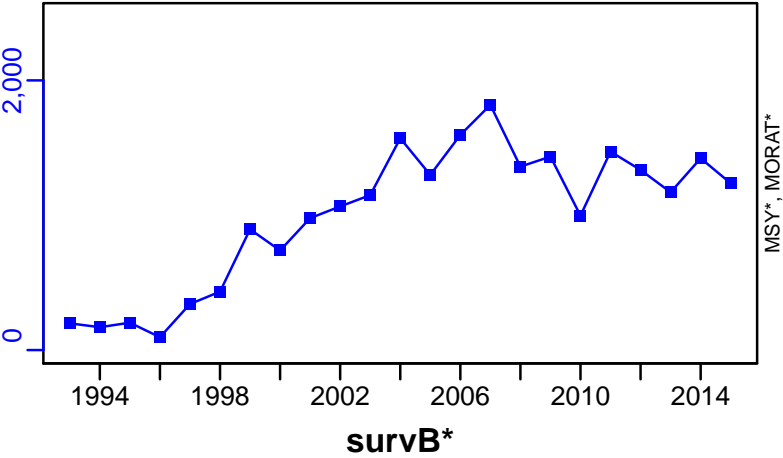


Recruits\*

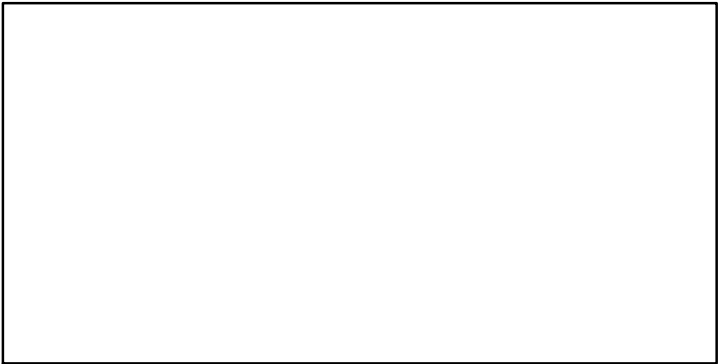


Norway lobster Off Horn Reef (FU 33) [NEPHFU33]

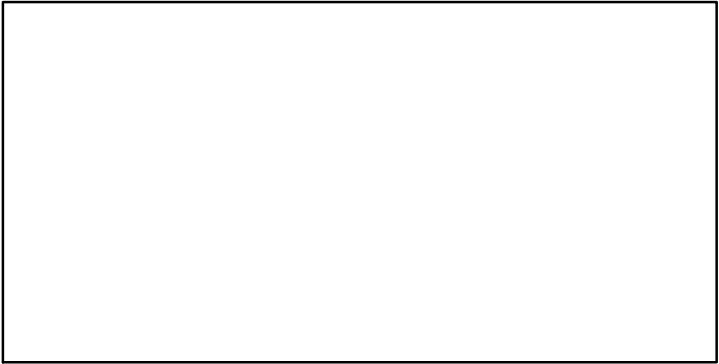
TL-MT, TC\*, RecC\* (1993–2016–ICESIMP2016)



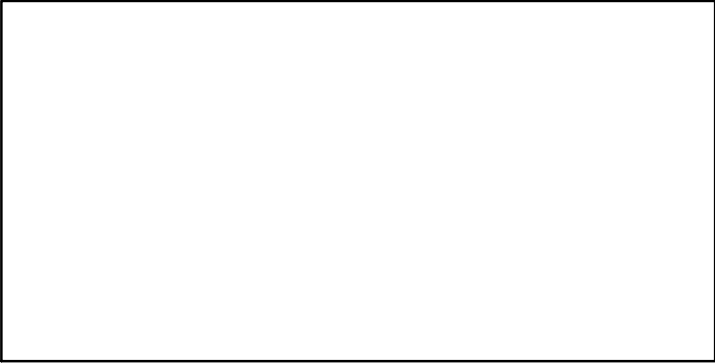
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*

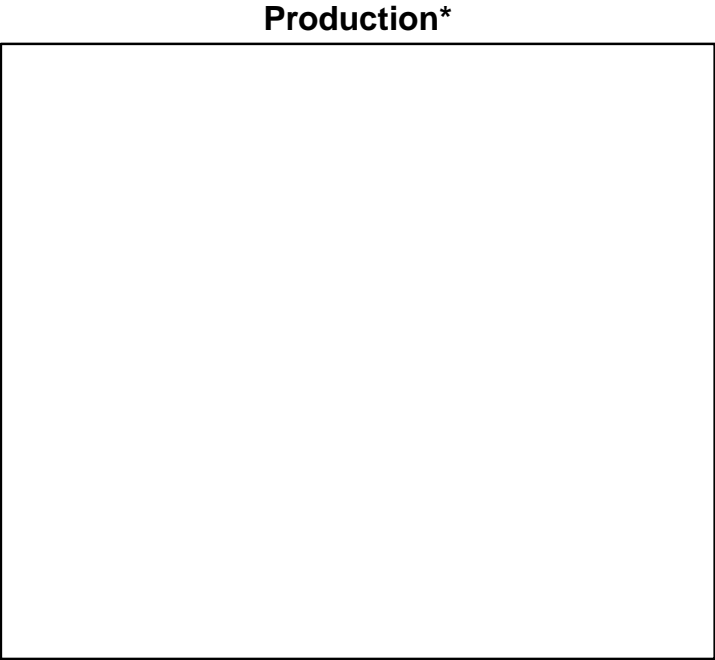
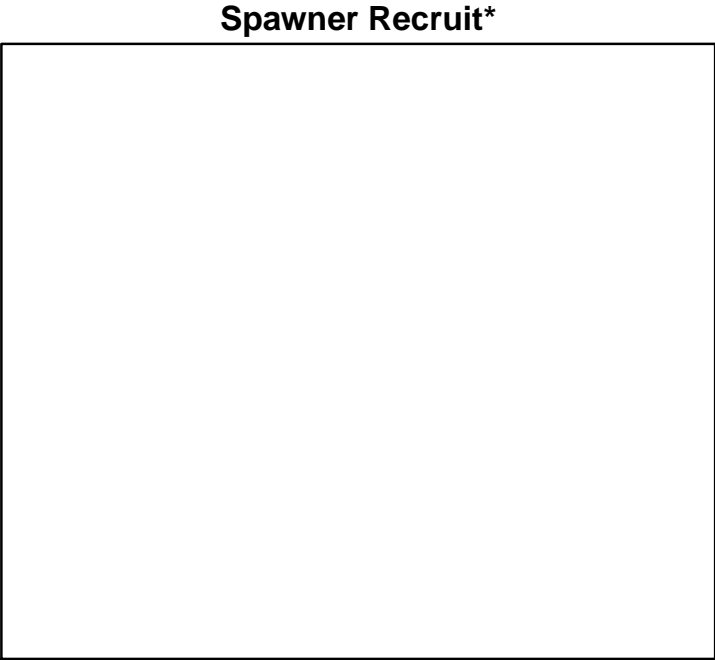
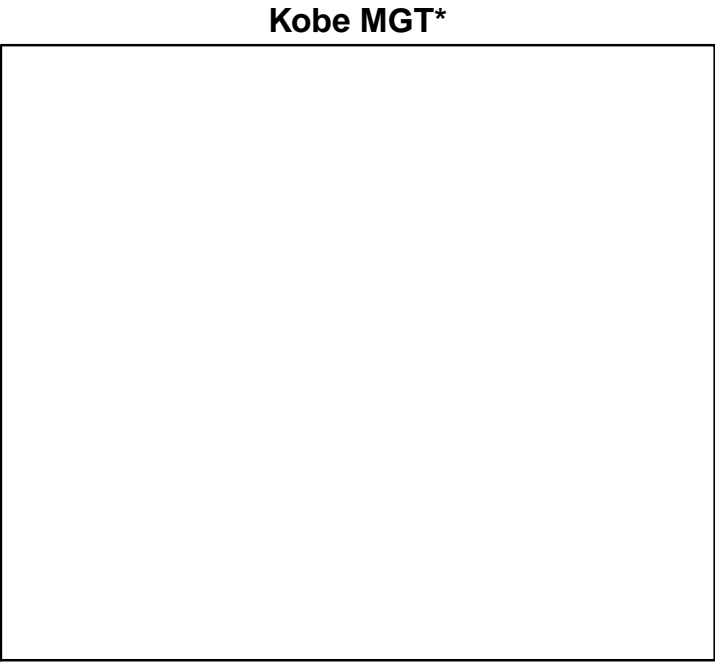
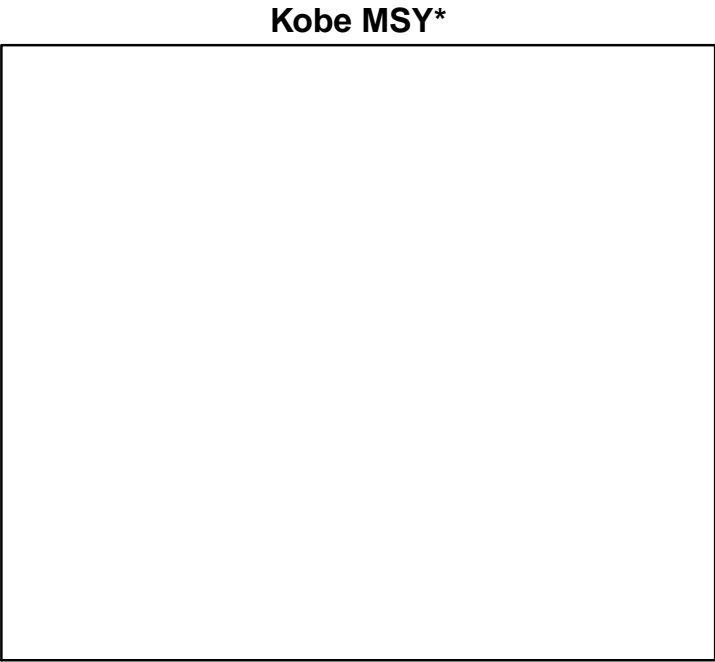


## Norway lobster Devil's Hole (FU 34) [NEPHFU34]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU34-1986-2016-ICESIMP2016
<b>Area</b>	Devil's Hole (FU 34)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	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	439		
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\*



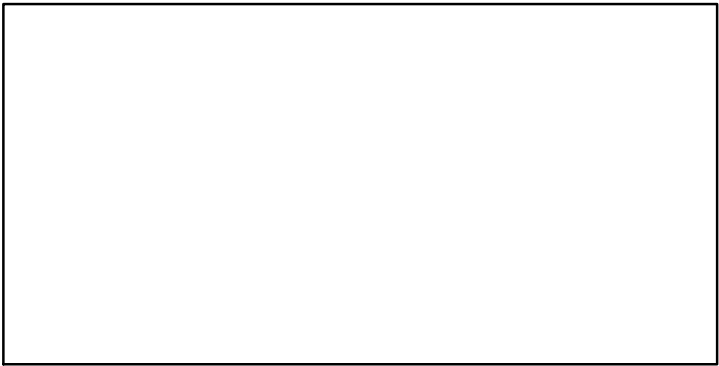
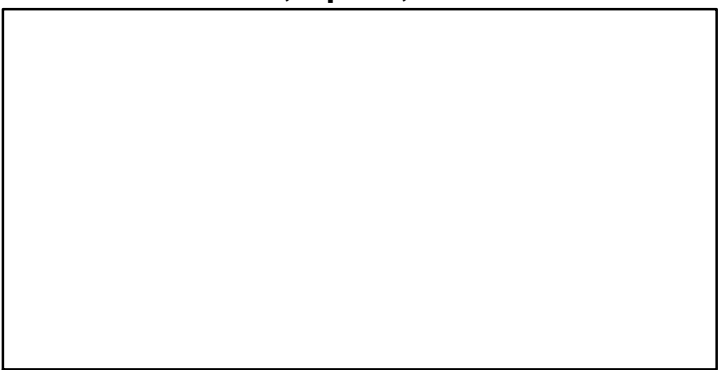
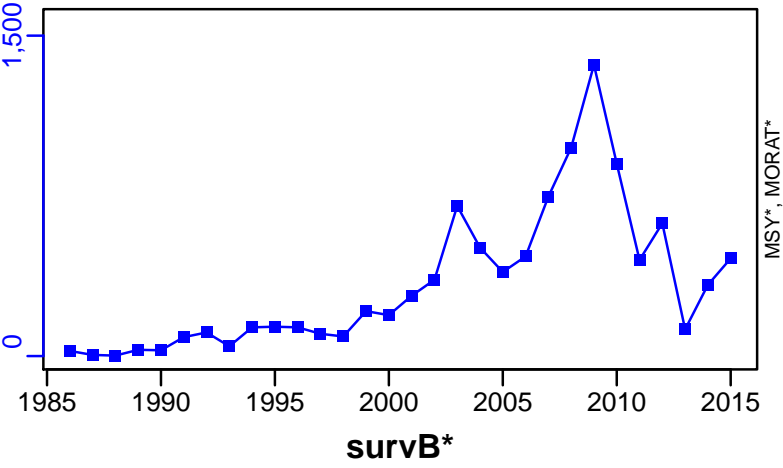
Recruits\*



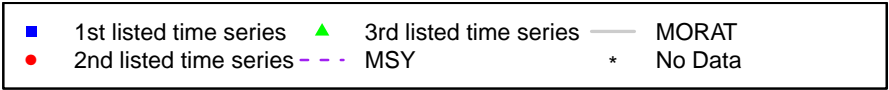
# Norway lobster Devil's Hole (FU 34) [NEPHFU34]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





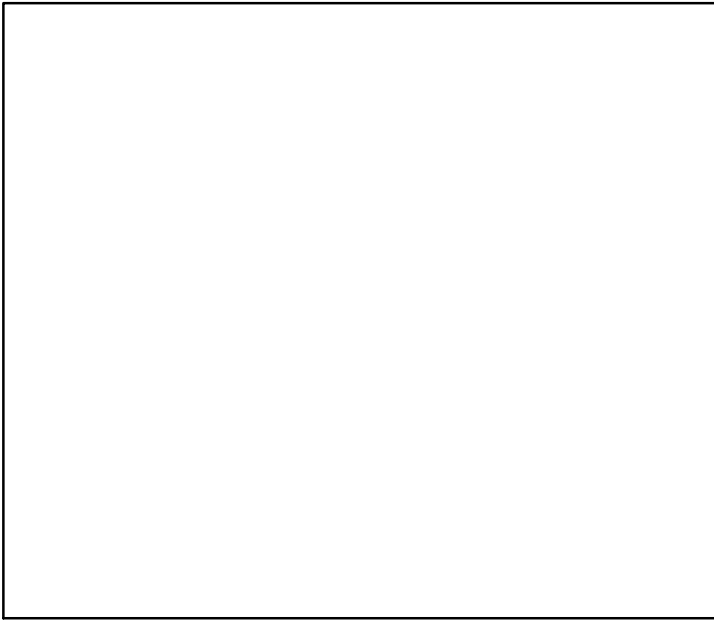
## Norway lobster Skagerak Kattegat (FU 3-4) [NEPHFU3-4]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU3-4-1960-2016-ICESIMP2016
<b>Area</b>	Skagerak Kattegat (FU 3-4)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016, 2015

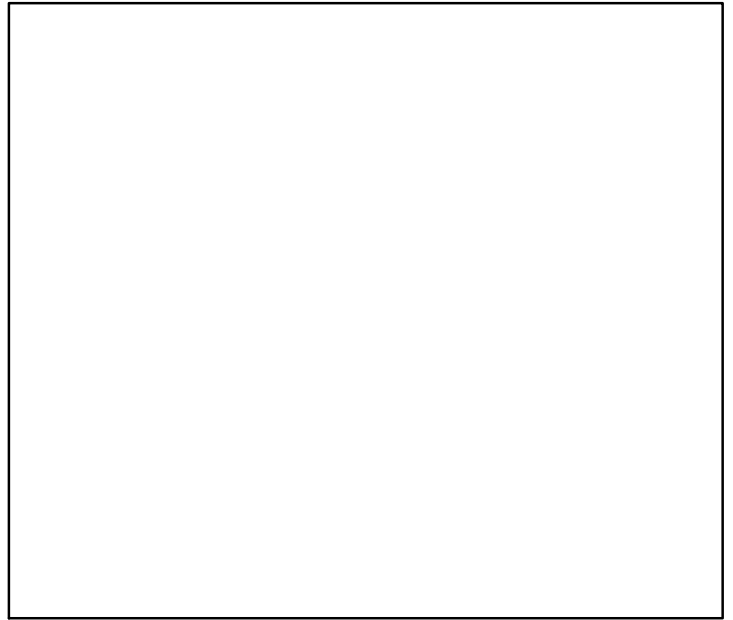
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	3350		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

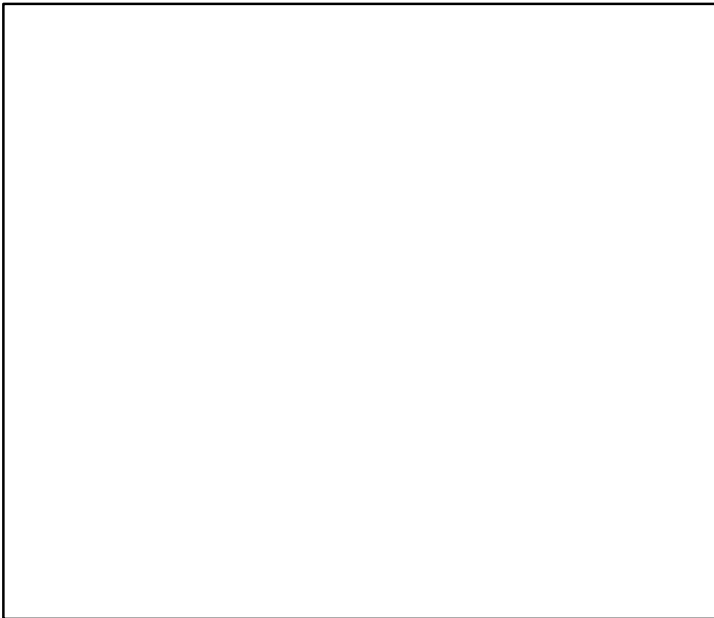
**Kobe MSY\***



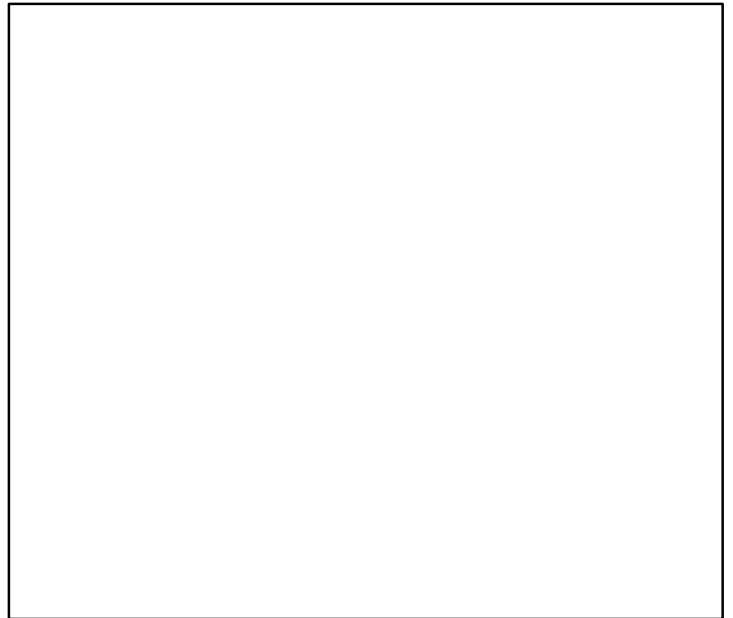
**Kobe MGT\***



**Spawner Recruit\***



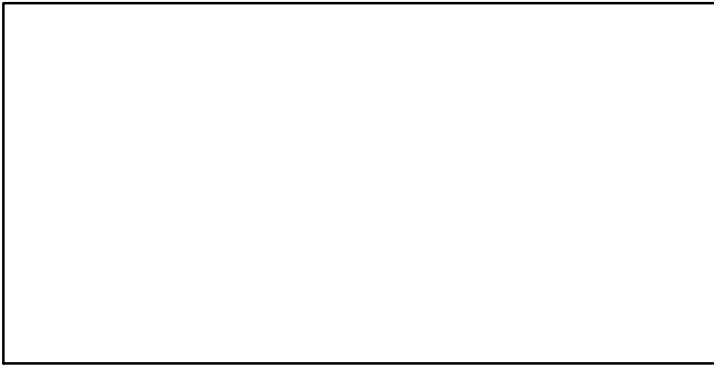
**Production\***



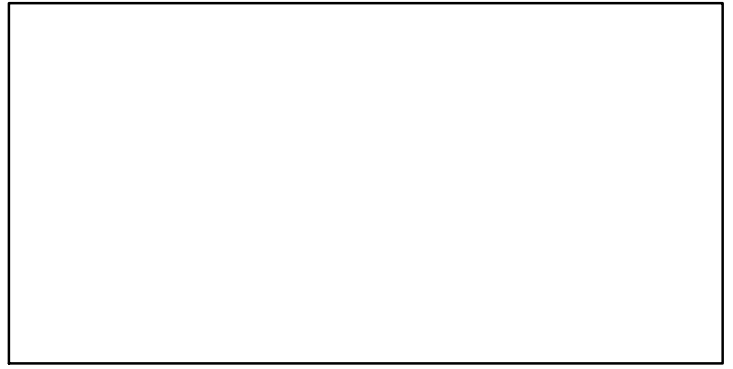
◆ Start Year ◆ End Year \* No Data

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

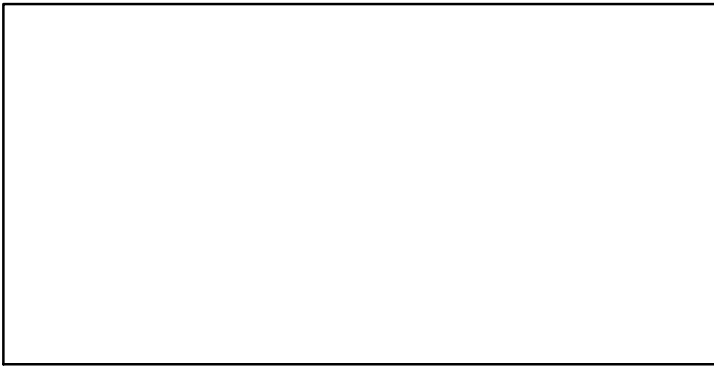
**TB\***



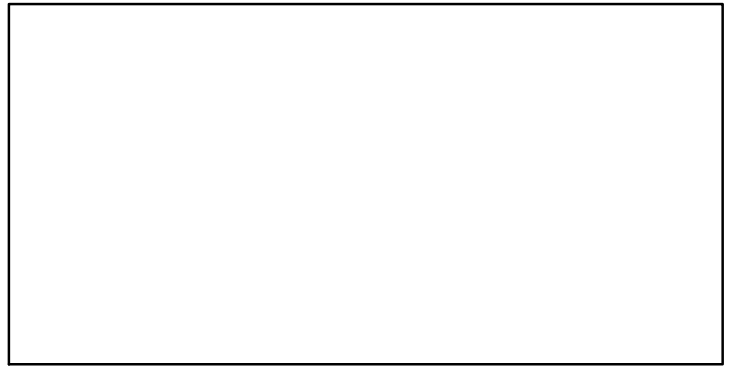
**SSB\***



**TN \***



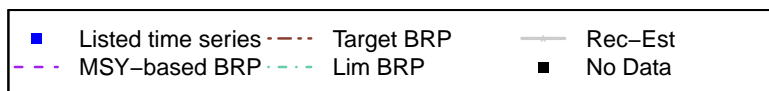
**F\***



**ER\***



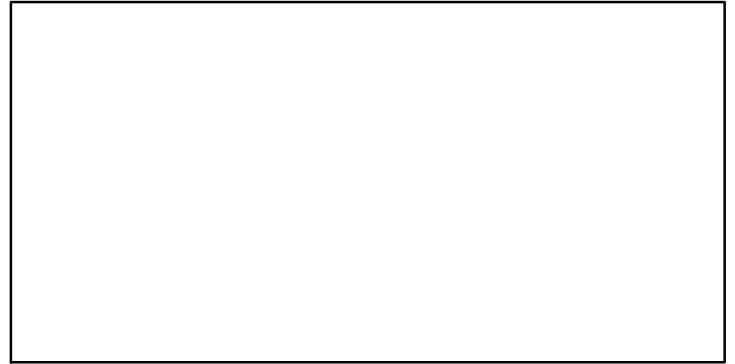
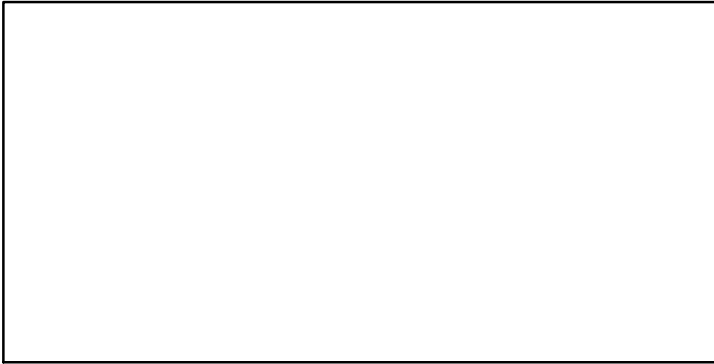
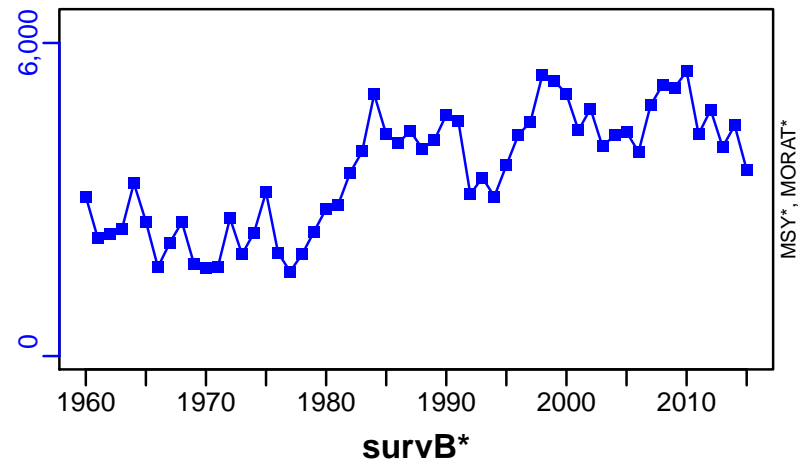
**Recruits\***



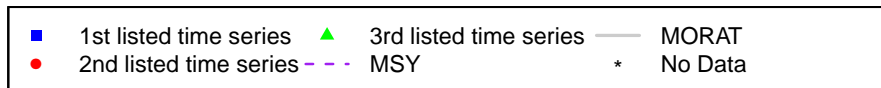
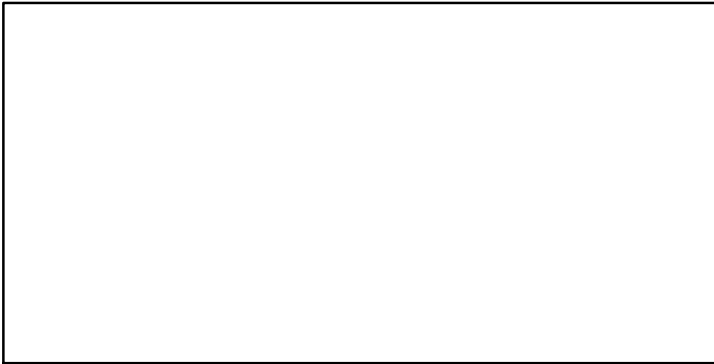
# Norway lobster Skagerak Kattegat (FU 3–4) [NEPHFU3–4]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



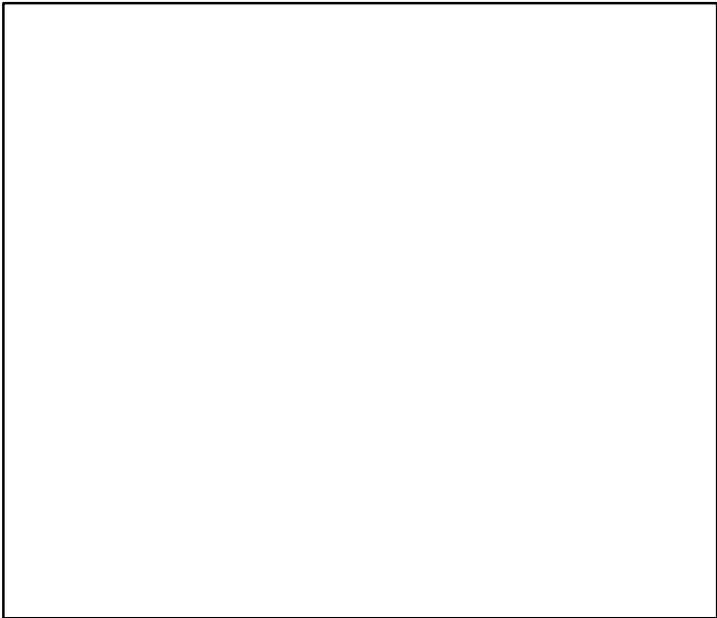
## Norway lobster Botney Cut - Silver Pit (FU 5) [NEPHFU5]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU5-1991-2016-ICESIMP2016
<b>Area</b>	Botney Cut - Silver Pit(FU 5)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2016

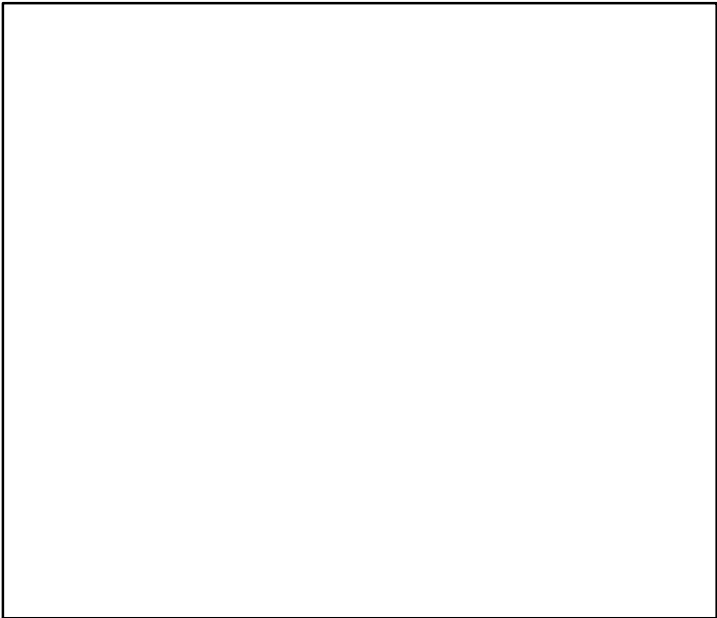
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

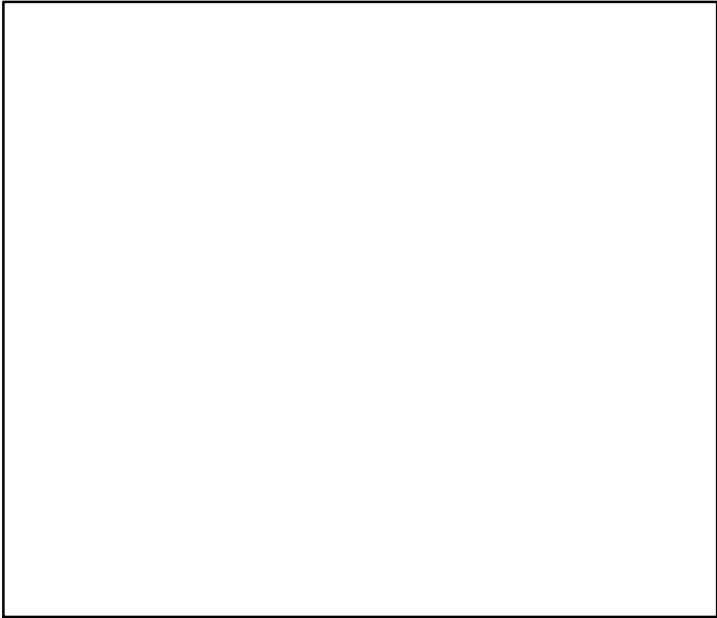
Kobe MSY\*



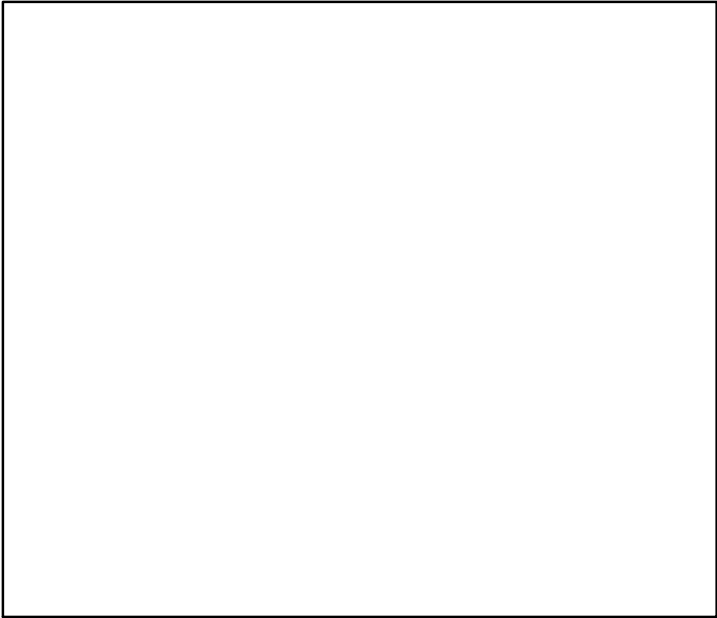
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



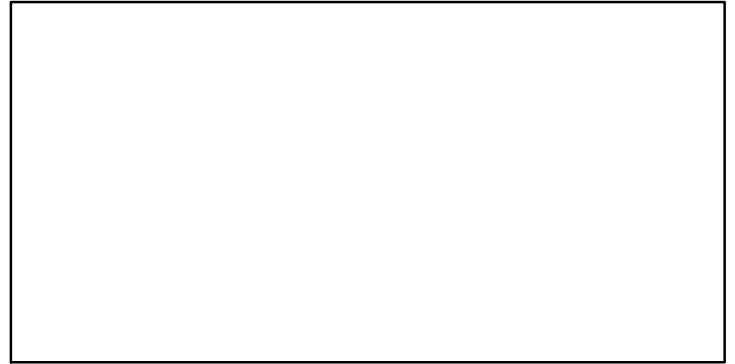
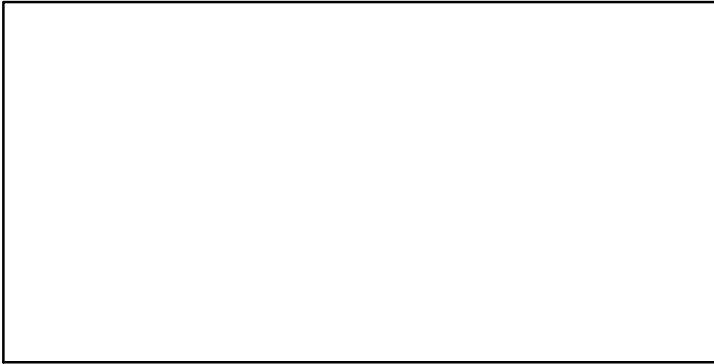
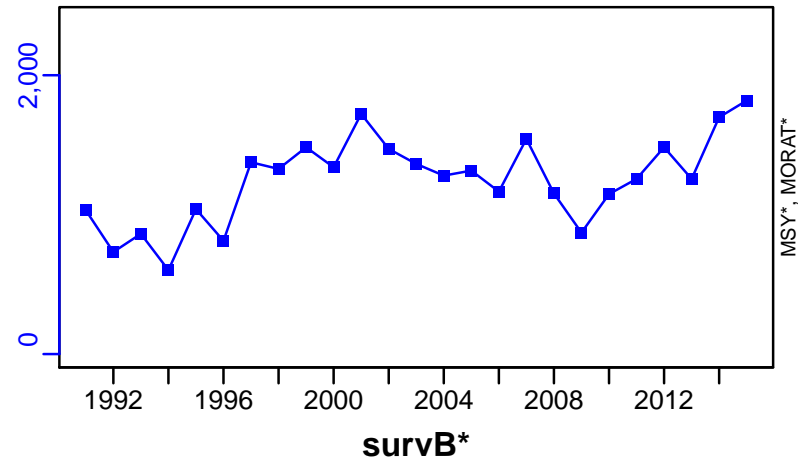
Recruits\*



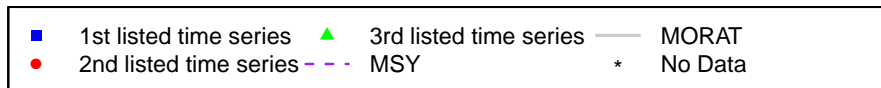
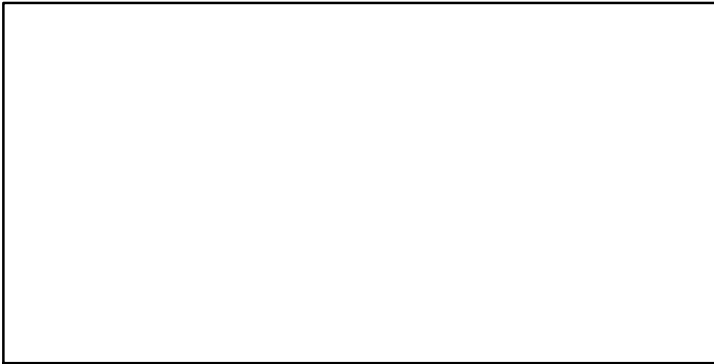
# Norway lobster Botney Cut – Silver Pit (FU 5) [NEPHFU5]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





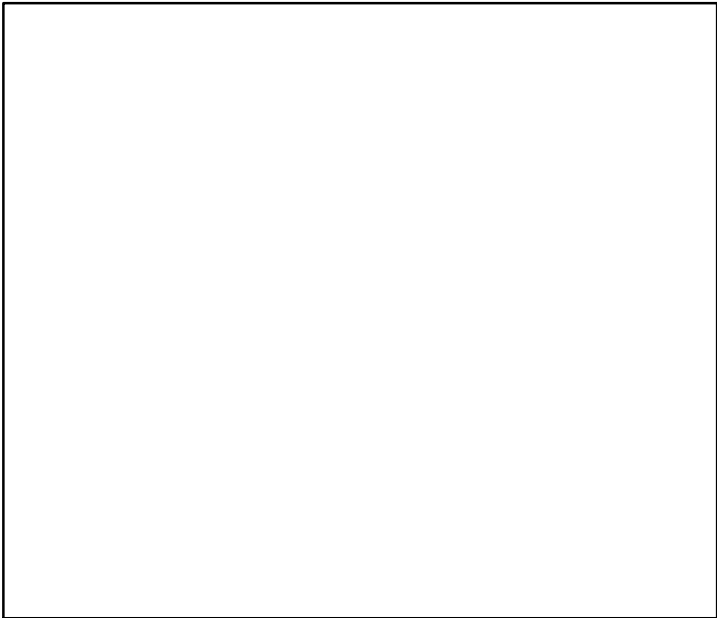
## Norway lobster Farn Deep (FU 6) [NEPHFU6]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU6-1981-2016-ICESIMP2016
<b>Area</b>	Farn Deep (FU 6)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2015, 2016

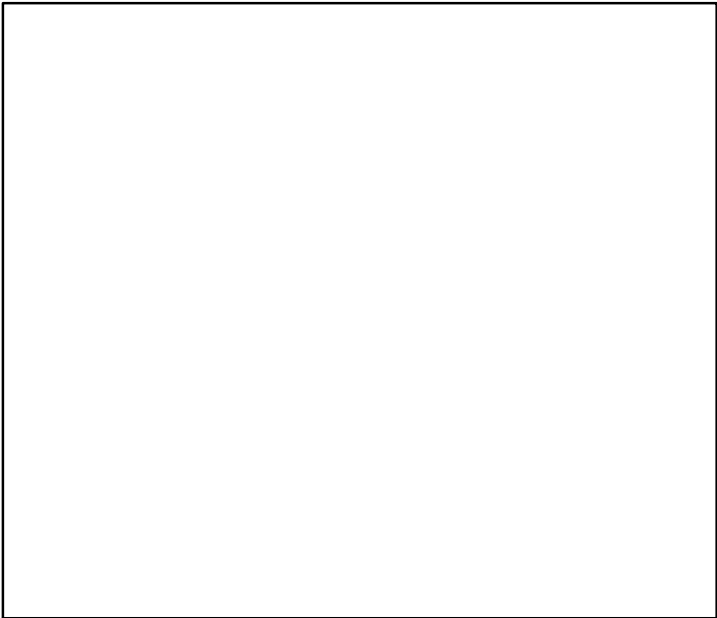
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2016	0.081
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2016	0.081
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim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

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

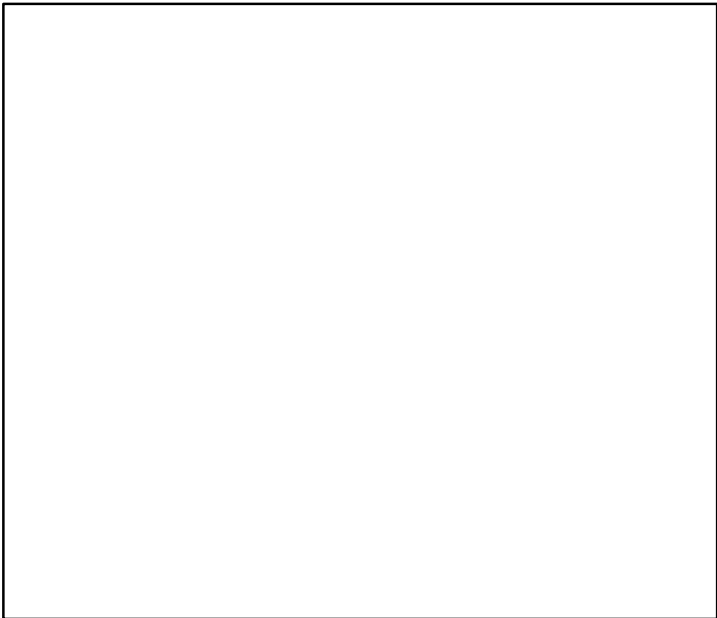
Kobe MSY\*



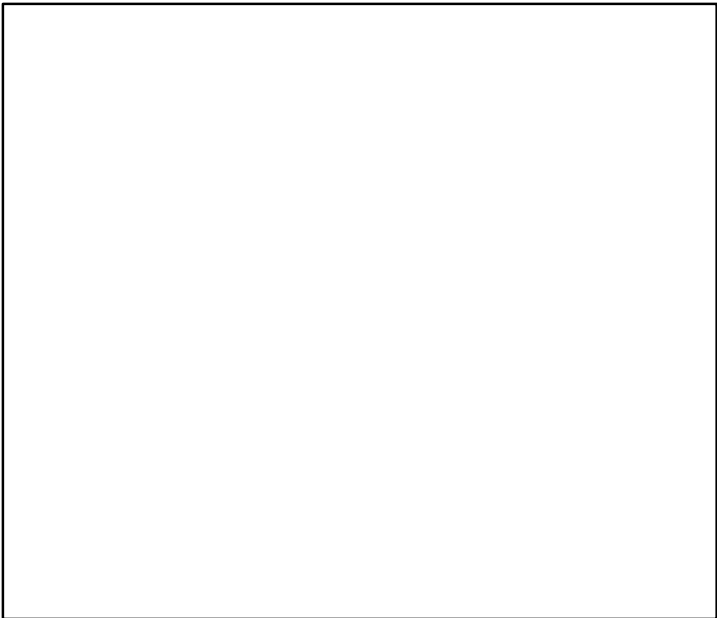
Kobe MGT\*



Spawner Recruit\*



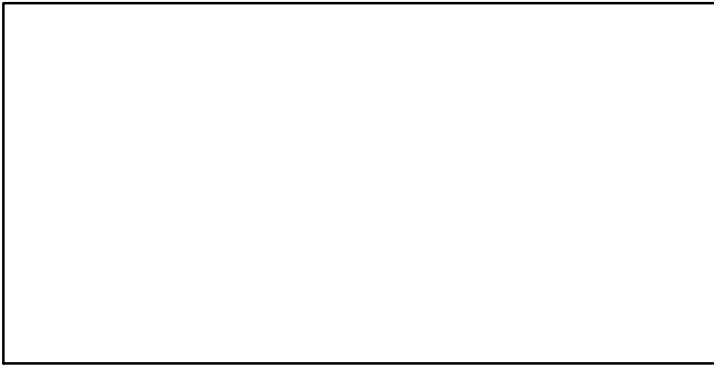
Production\*



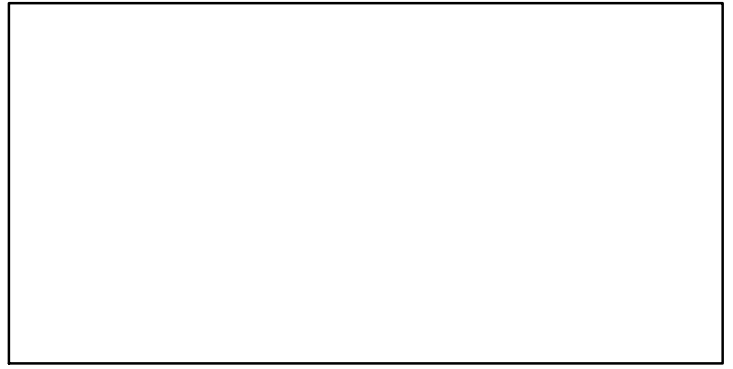
◆ Start Year    ◆ End Year    \* No Data

# Norway lobster Farn Deepes (FU 6) [NEPHFU6]

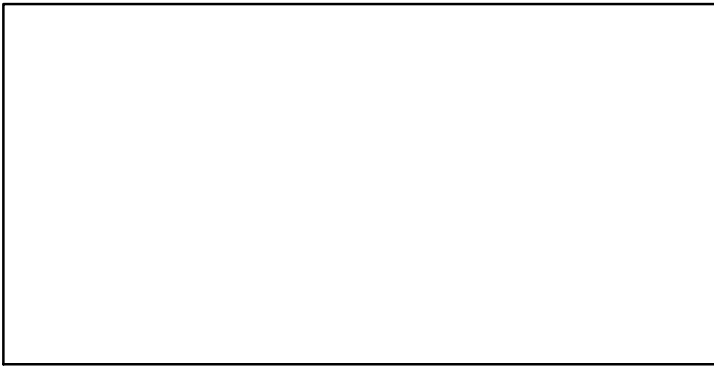
TB\*



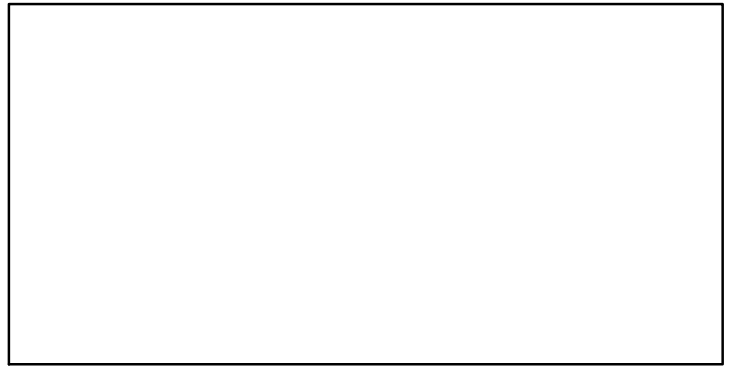
SSB\*



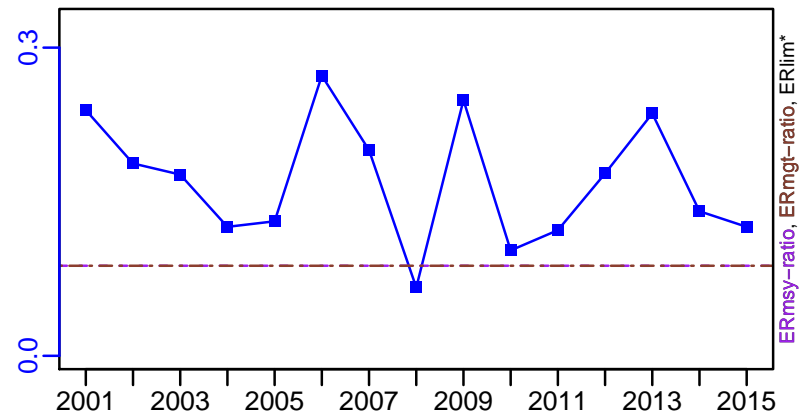
TN \*



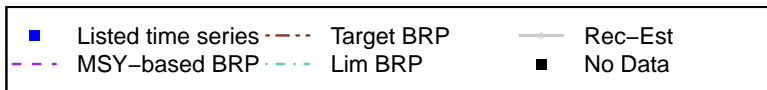
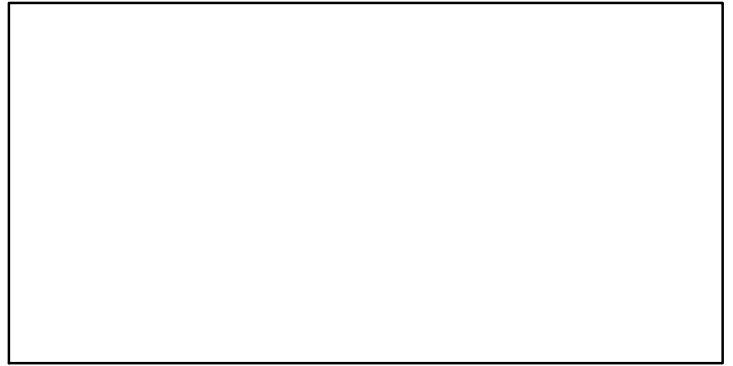
F\*



ER-ratio (1981–2016–ICESIMP2016)



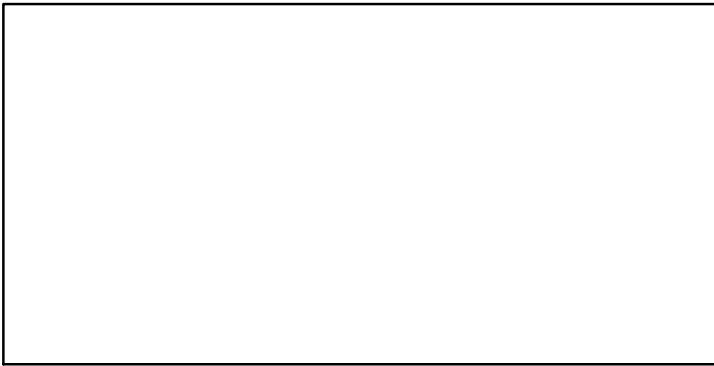
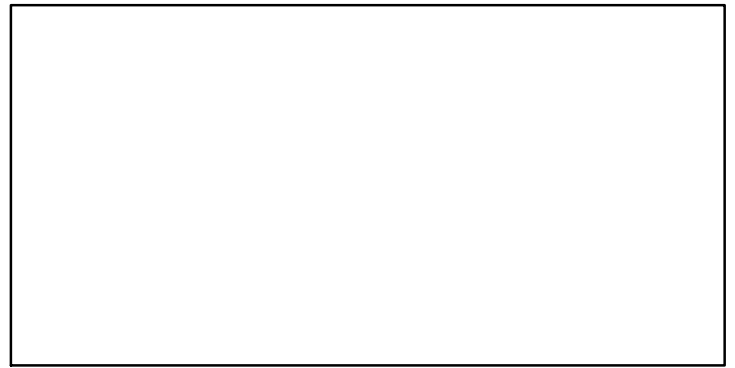
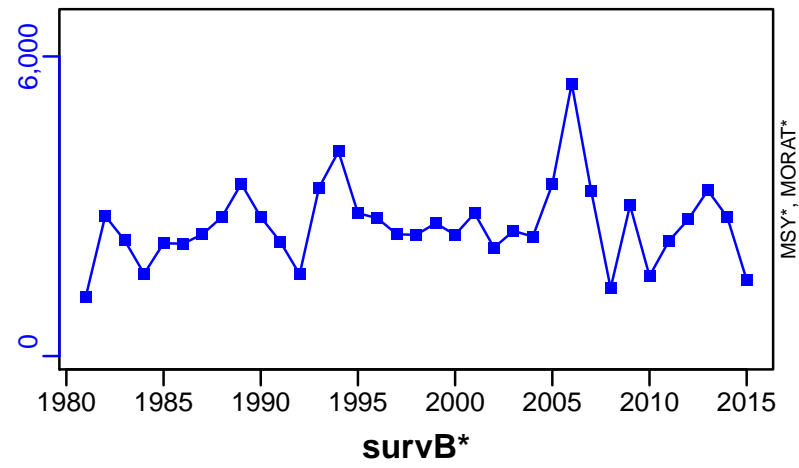
Recruits\*



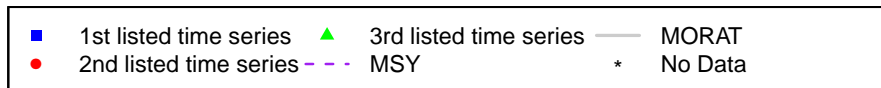
# Norway lobster Farn Deepes (FU 6) [NEPHFU6]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Norway lobster Fladen Ground (FU 7) [NEPHFU7]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU7-1992-2016-ICESIMP2016
<b>Area</b>	Fladen Ground (FU 7)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2015, 2016

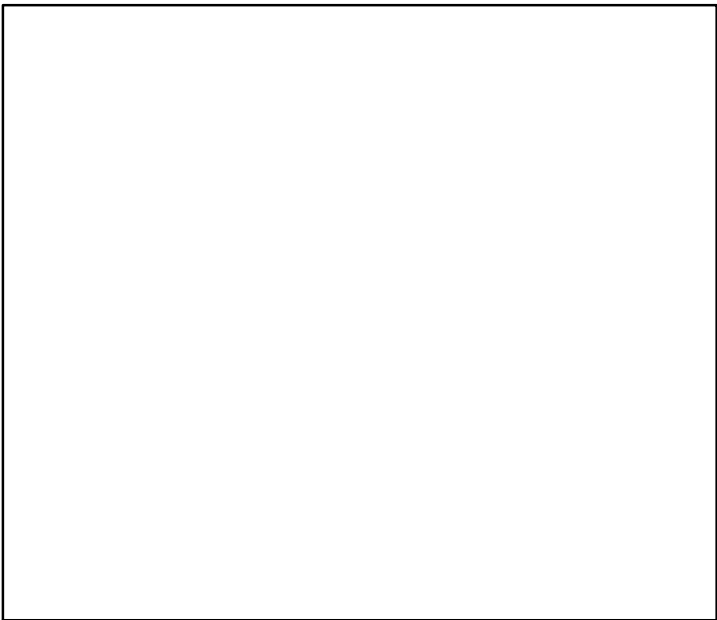
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2016	0.075
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2016	0.075
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2016	0.02	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	1790		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2016	0.267		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

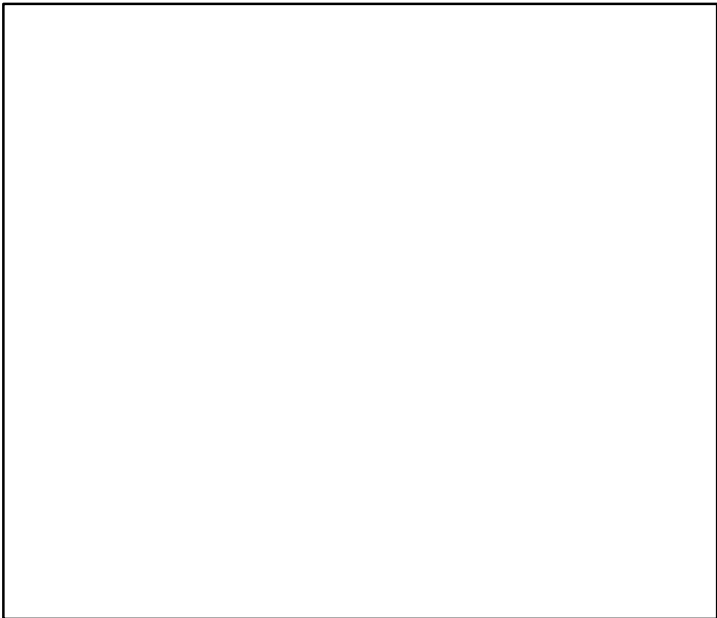
Kobe MSY\*



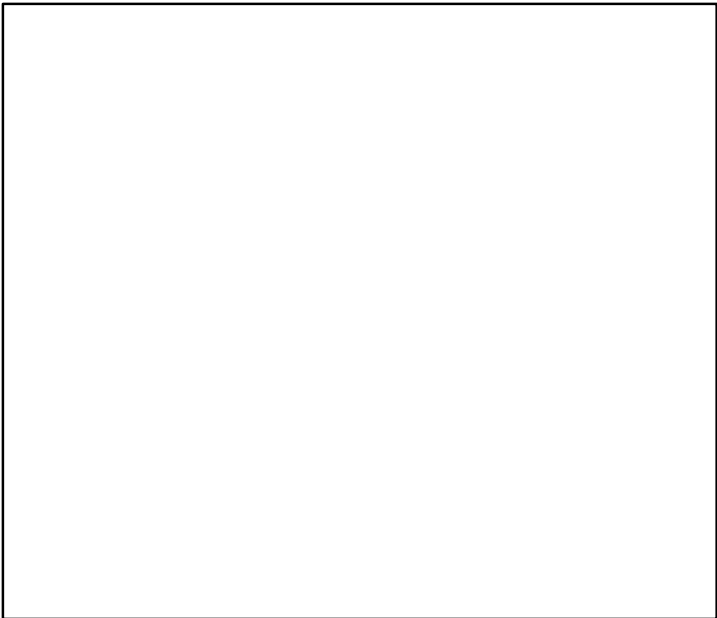
Kobe MGT\*



Spawner Recruit\*



Production\*



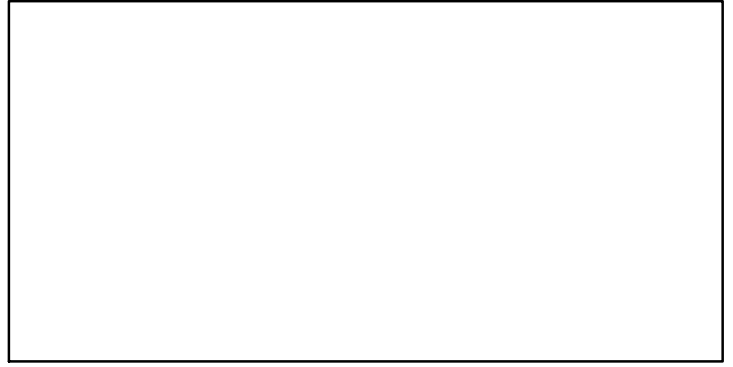
◆ Start Year   ◆ End Year   \* No Data

Norway lobster Fladen Ground (FU 7) [NEPHFU7]

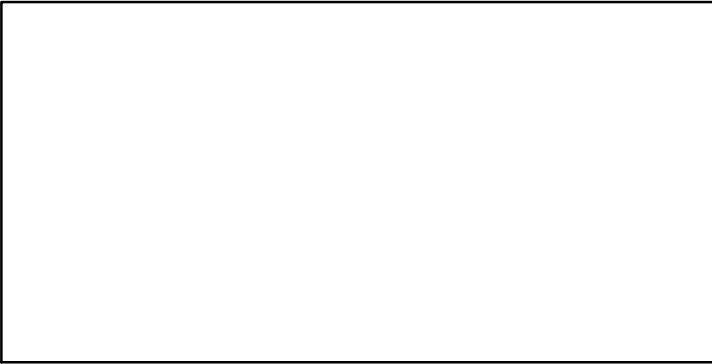
TB\*



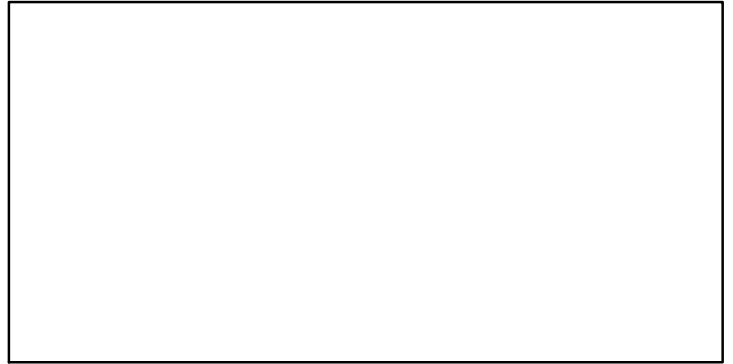
SSB\*



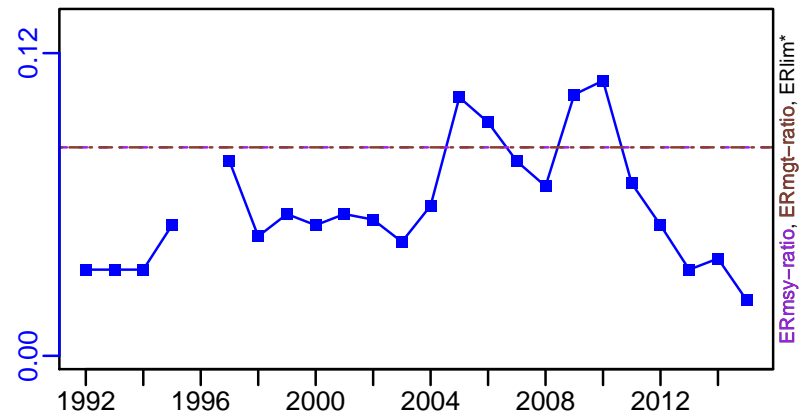
TN \*



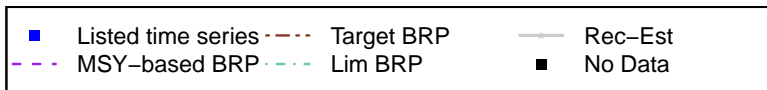
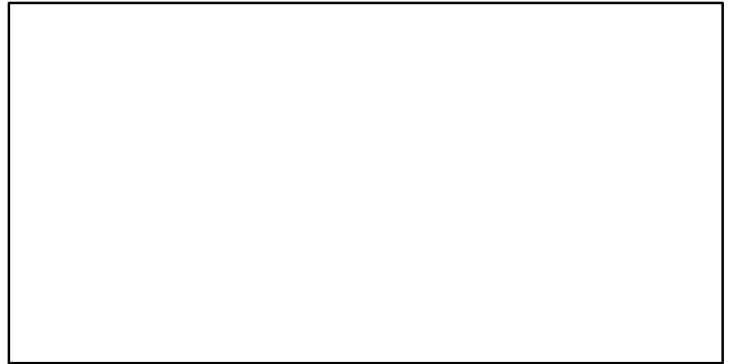
F\*



ER-ratio (1992–2016–ICESIMP2016)



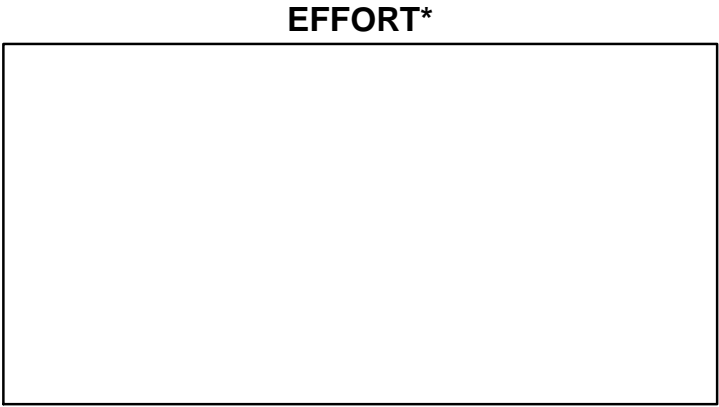
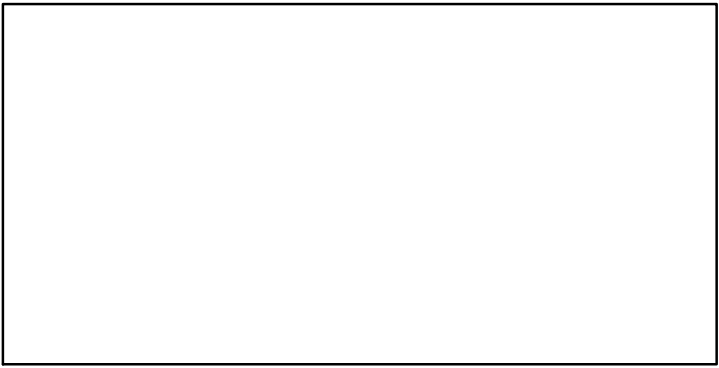
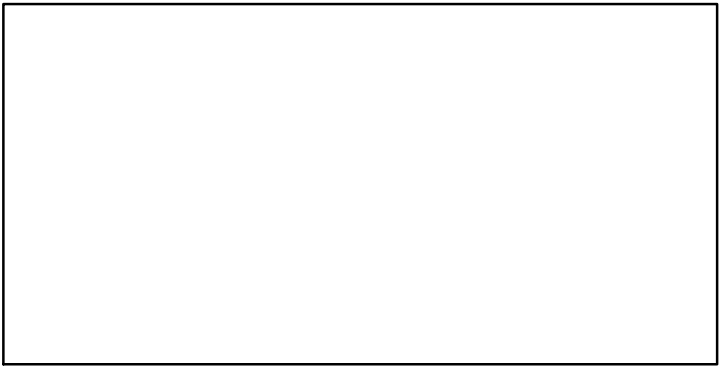
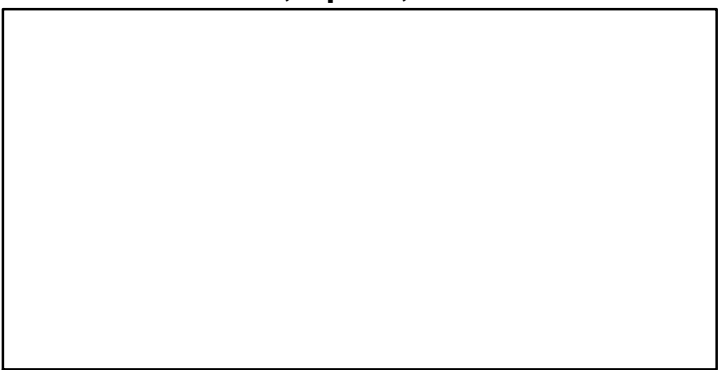
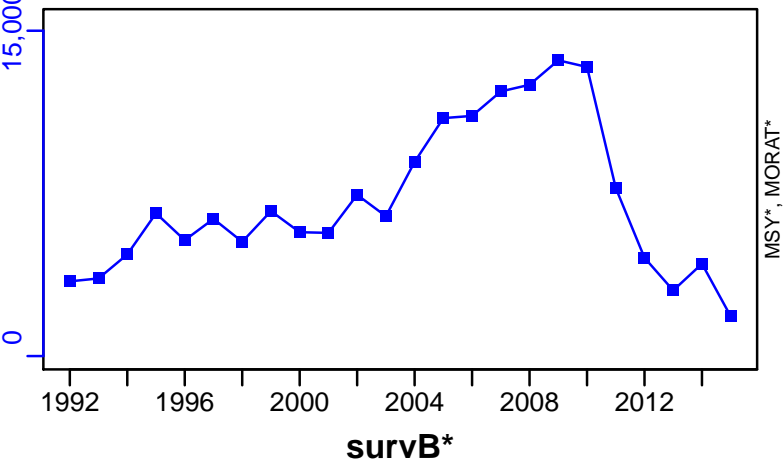
Recruits\*



# Norway lobster Fladen Ground (FU 7) [NEPHFU7]

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

TAC\*, Cpair\*, Cadv\*





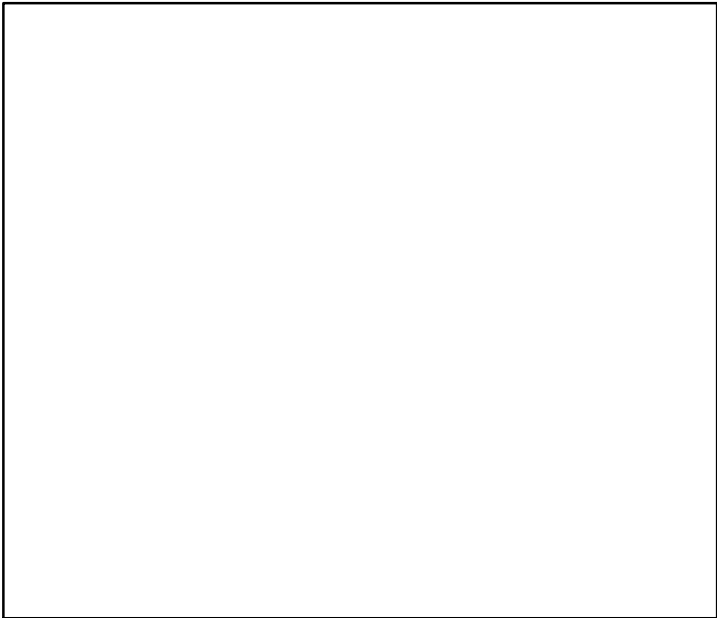
## Norway lobster Firth of Forth (FU 8) [NEPHFU8]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU8-1993-2016-ICESIMP2016
<b>Area</b>	Firth of Forth (FU 8)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2015, 2016

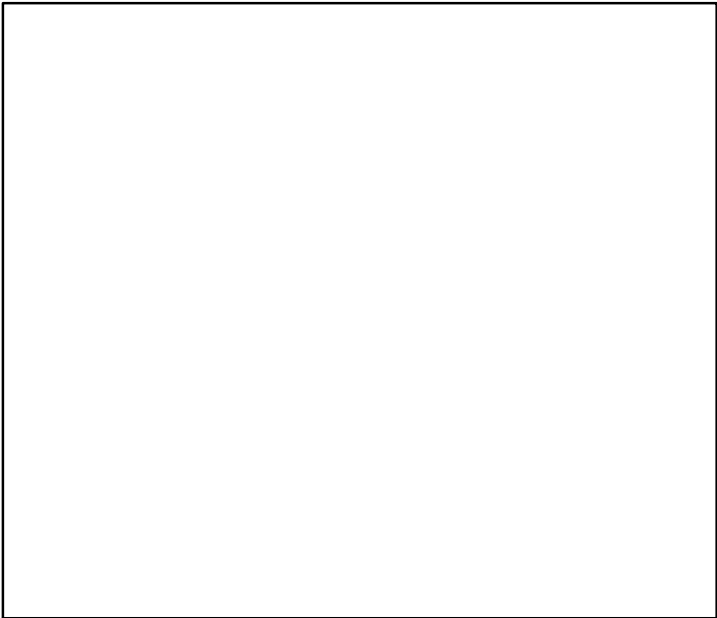
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2016	0.163
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2016	0.163
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim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

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

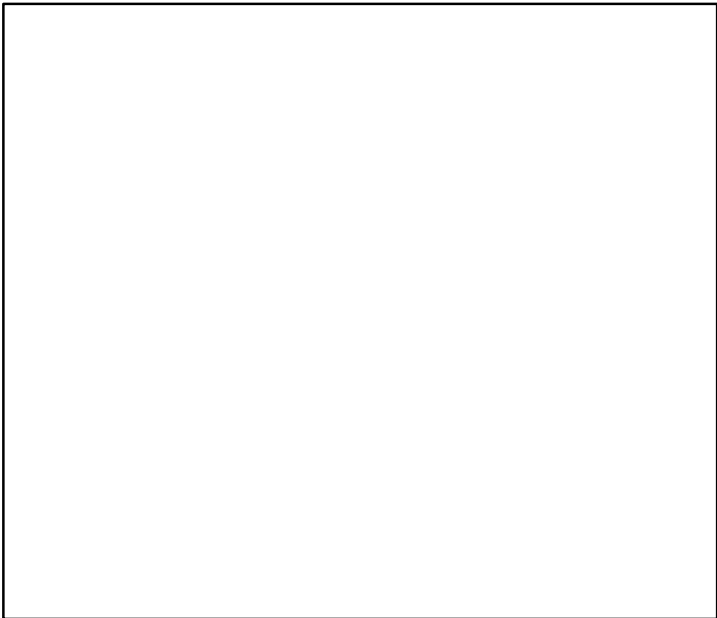
Kobe MSY\*



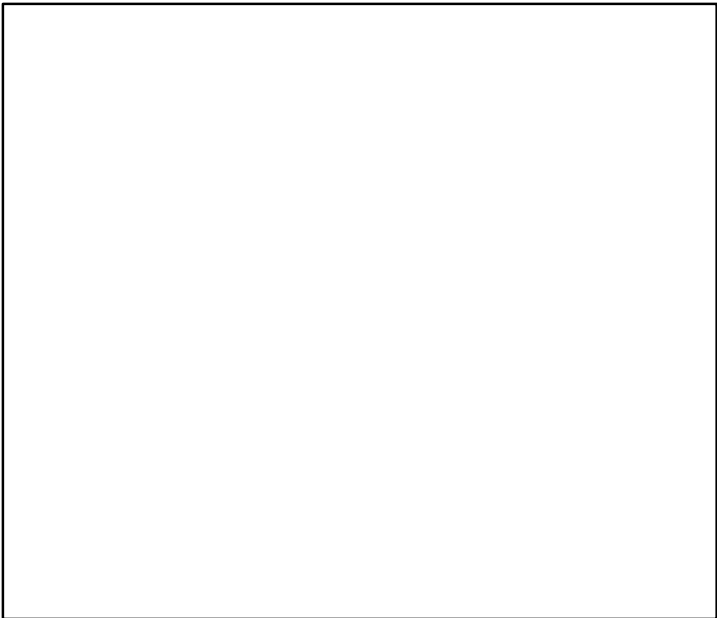
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

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

TB\*



SSB\*



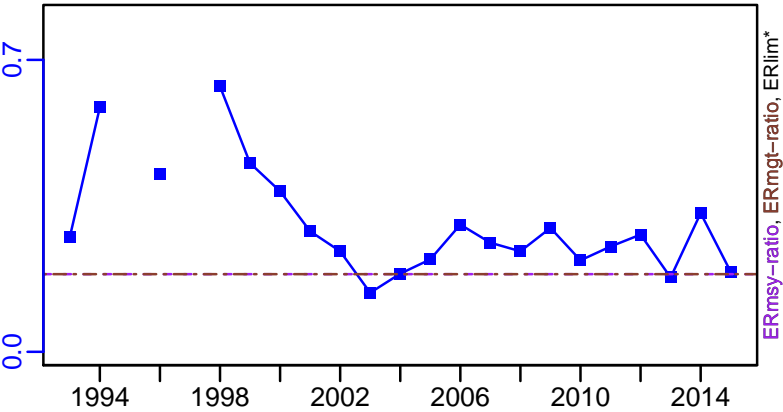
TN \*



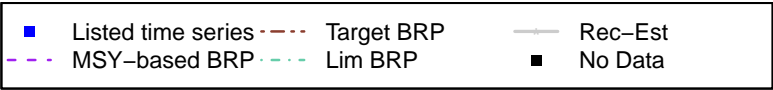
F\*



ER-ratio (1993–2016–ICESIMP2016)

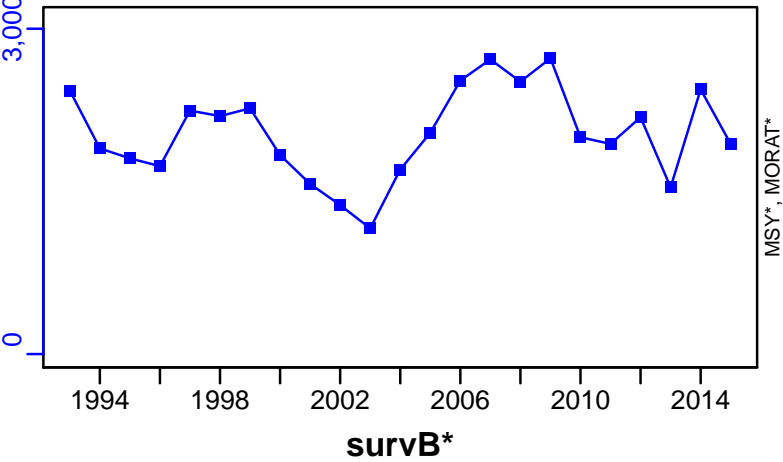


Recruits\*



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

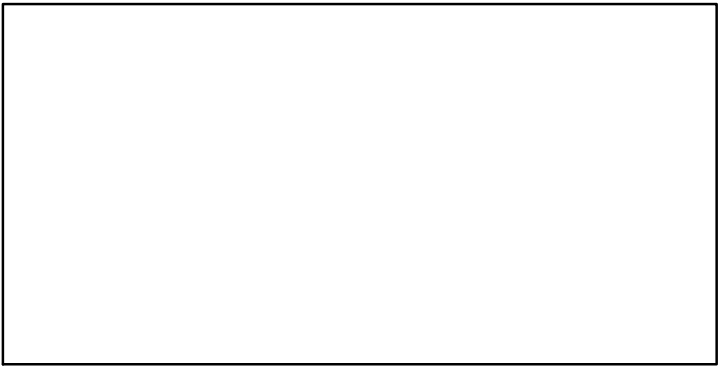
TL-MT, TC\*, RecC\* (1993–2016–ICESIMP2016)



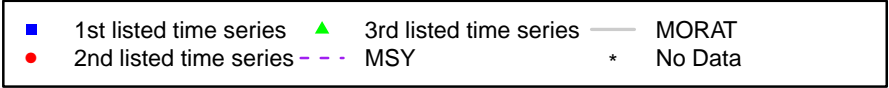
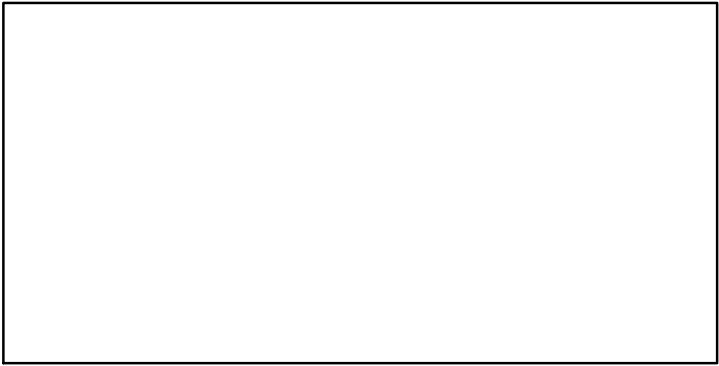
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



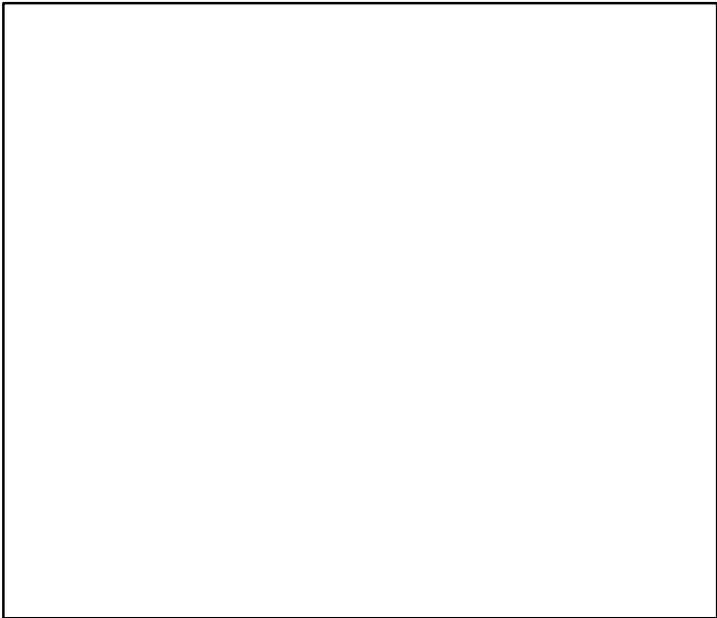
## Norway lobster Moray Firth (FU 9) [NEPHFU9]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	WGNSSK-NEPHFU9-1993-2016-ICESIMP2016
<b>Area</b>	Moray Firth (FU 9)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2015, 2016

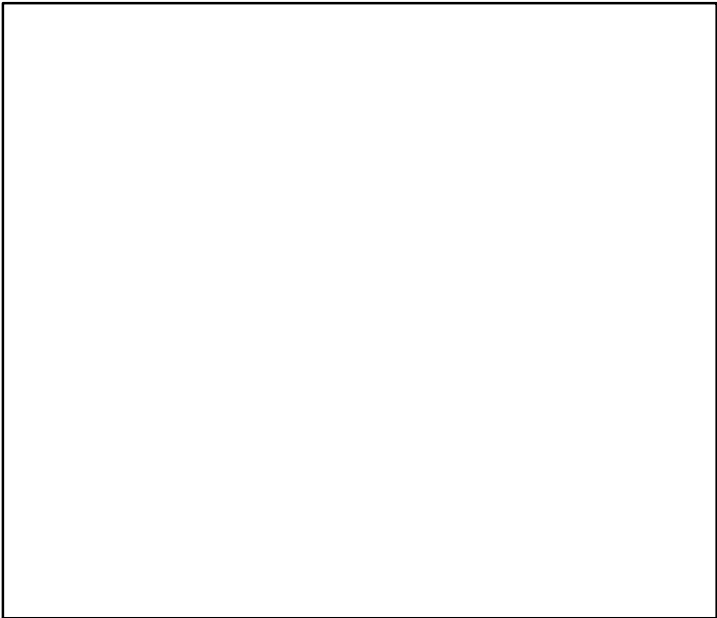
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2016	0.118
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2016	0.118
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2016	0.091	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	830		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2016	0.771		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

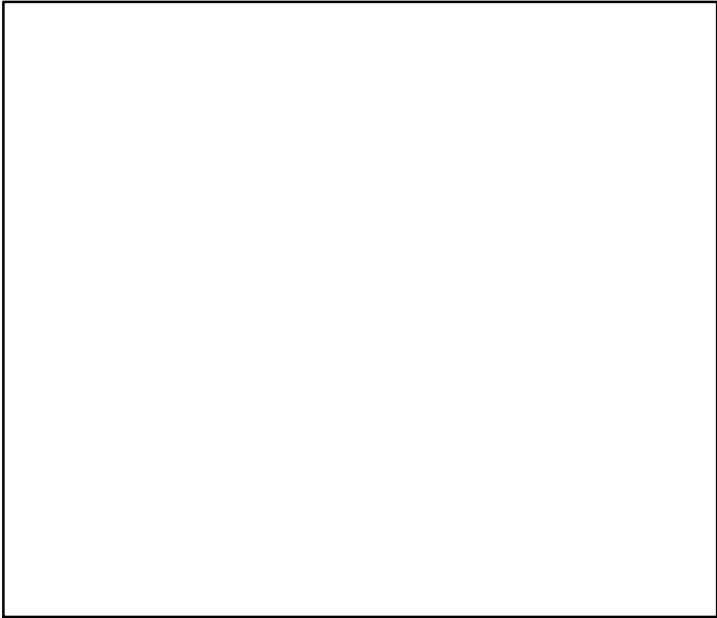
Kobe MSY\*



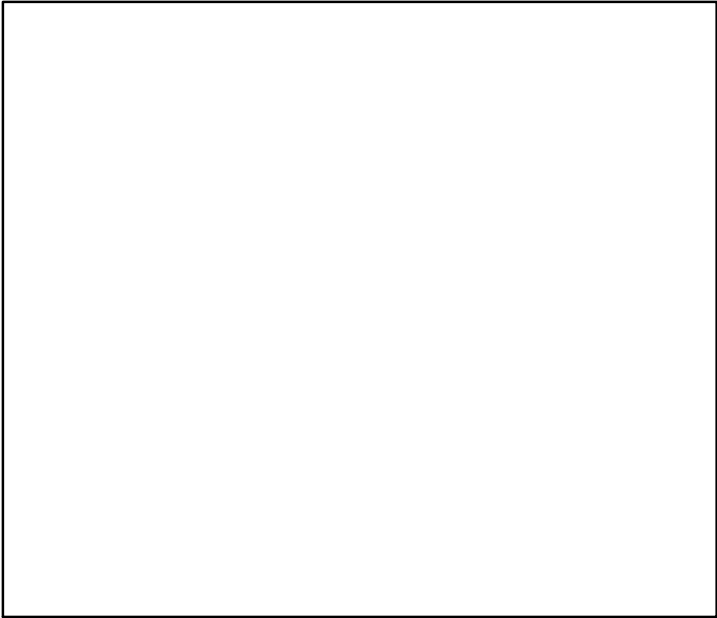
Kobe MGT\*



Spawner Recruit\*



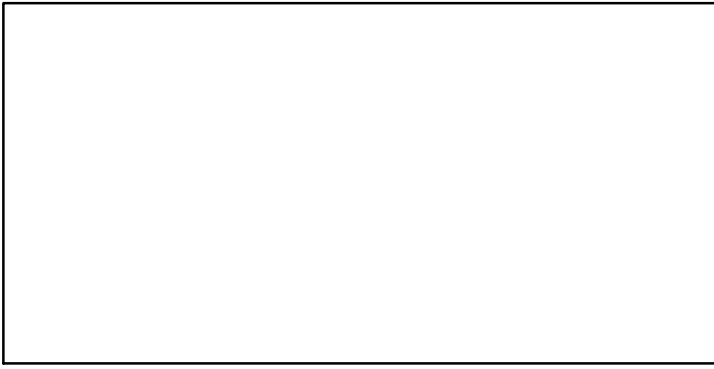
Production\*



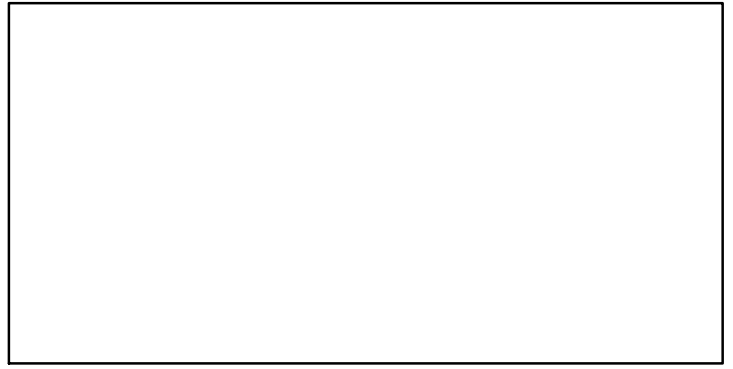
◆ Start Year   ◆ End Year   \* No Data

# Norway lobster Moray Firth (FU 9) [NEPHFU9]

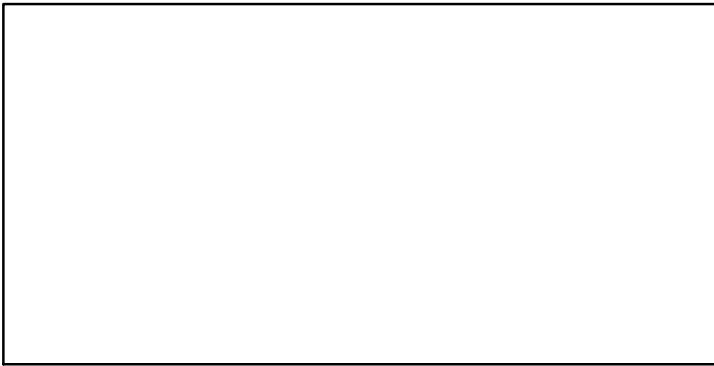
TB\*



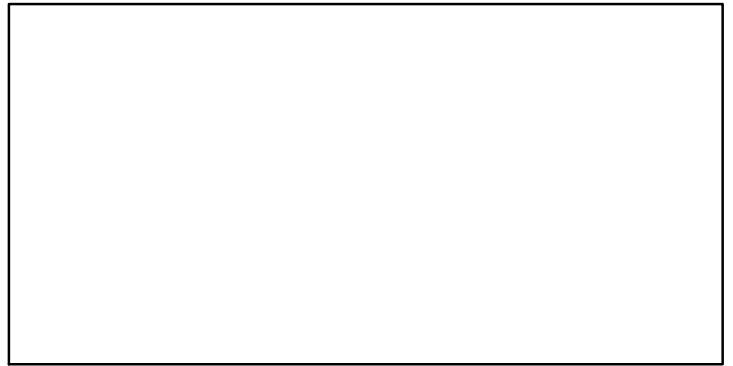
SSB\*



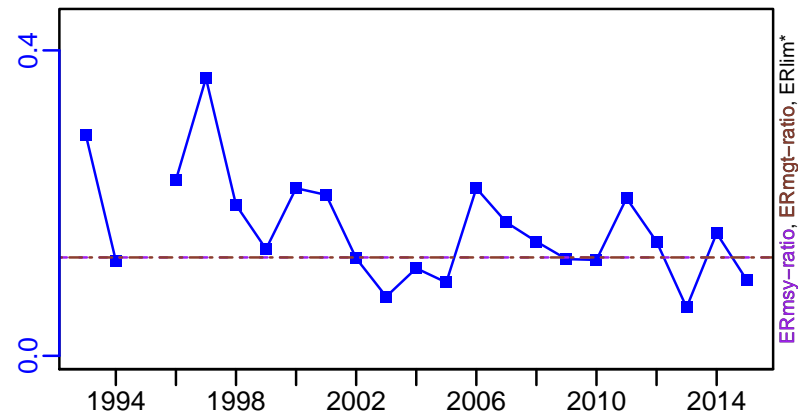
TN \*



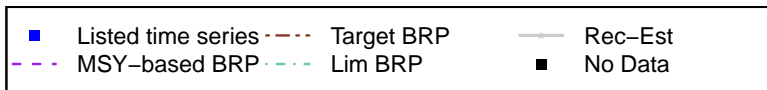
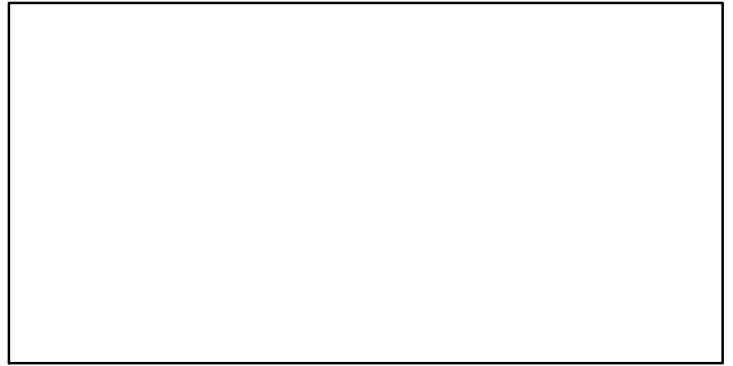
F\*



ER-ratio (1993–2016–ICESIMP2016)



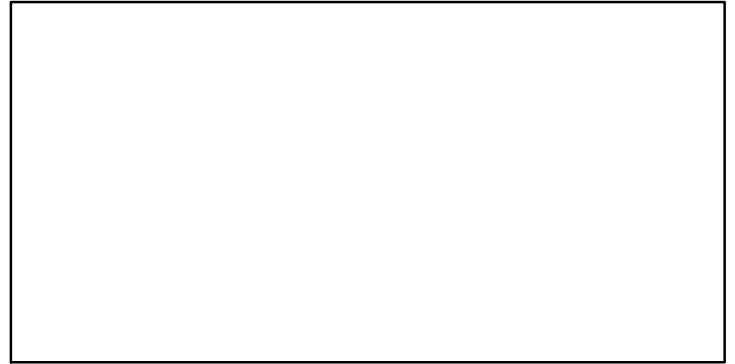
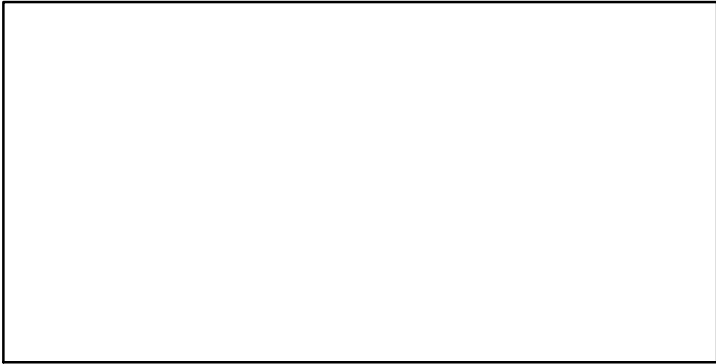
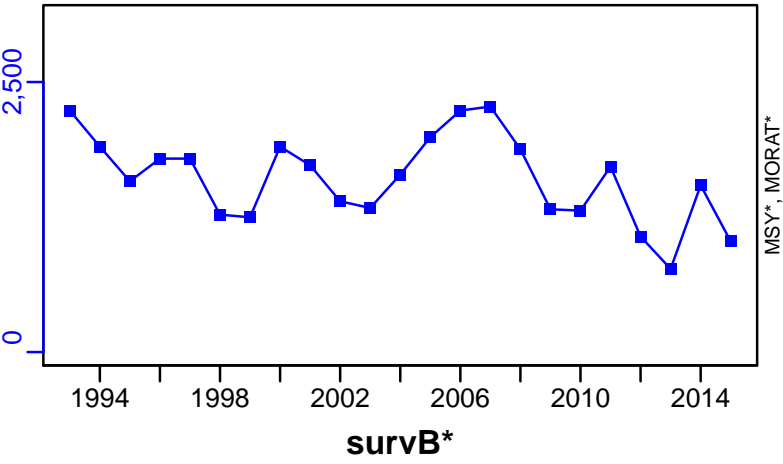
Recruits\*



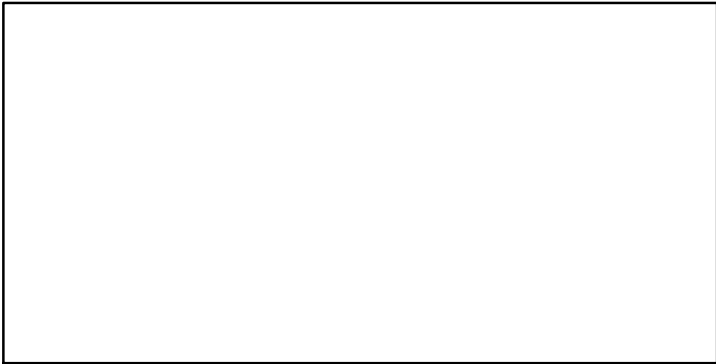
# Norway lobster Moray Firth (FU 9) [NEPHFU9]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





## Norway pout IIIa and North Sea [NPOUTIIIa-IV]

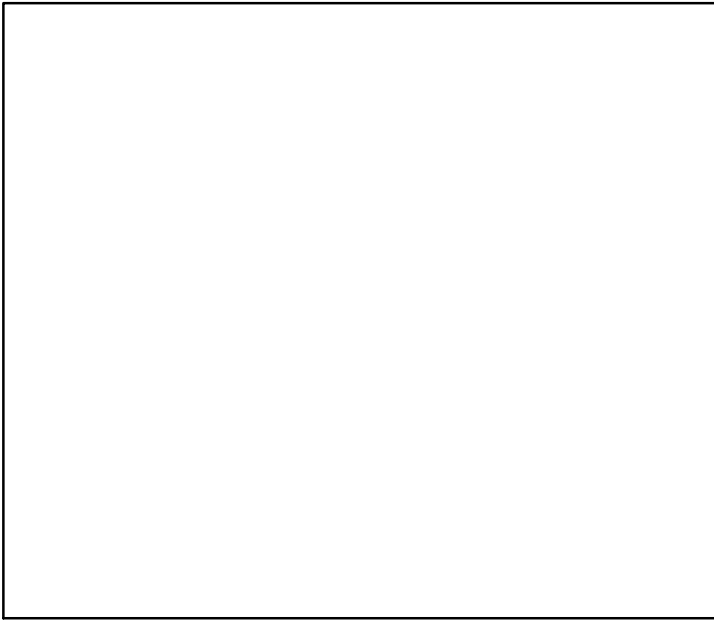
Metadata	
<b>Scientific Name</b>	Trisopterus esmarkii
<b>Current Assess ID</b>	WGNSSK-NPOUTIIIa-IV-1983-2014-ICESIMP2016
<b>Area</b>	IIIa and North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2014	150,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2011	$1 \times 10^5$
<b>SSBlim</b>	SSBlim-MT	2014	90,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

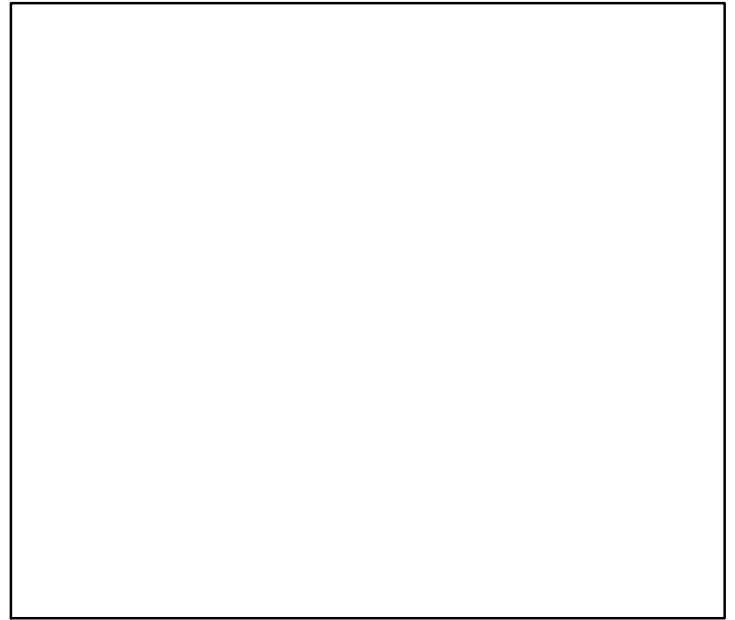
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	646,000	Both	-
<b>SSB</b>	SSB-MT	2014	274,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$2.5 \times 10^{10}$	-	0
<b>F</b>	F-1/yr	2014	0.406	-	1 to 2
<b>ER</b>	ER-calc-ratio	2014	0.127	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2014	82,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2014	1.826		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

Norway pout IIIa and North Sea [NPOUTIIIa-IV]

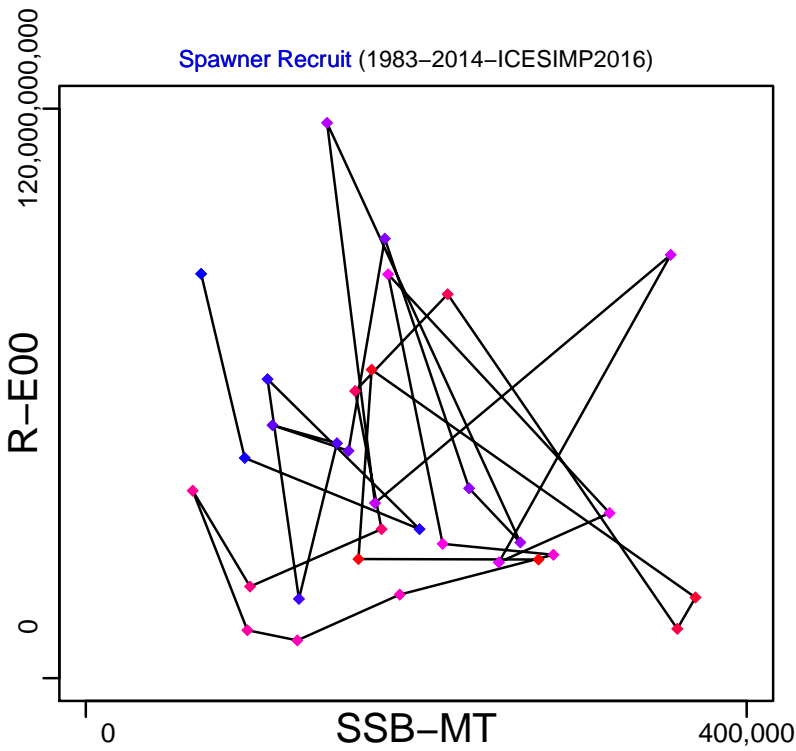
Kobe MSY\*



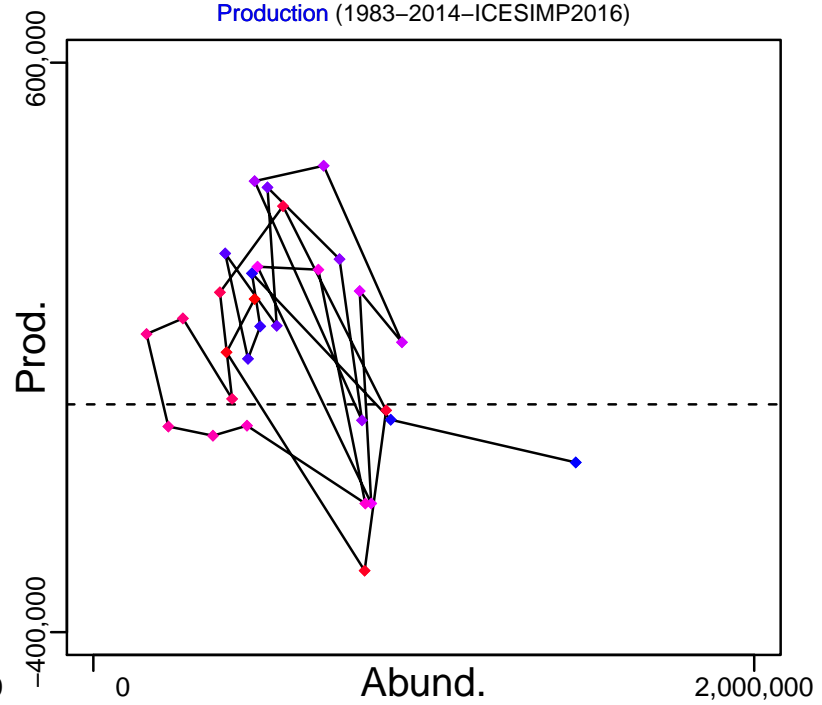
Kobe MGT\*



Spawner Recruit (1983–2014–ICESIMP2016)



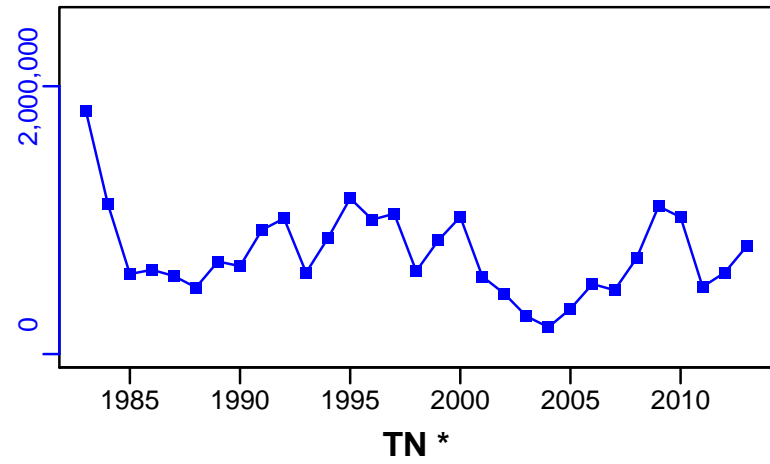
Production (1983–2014–ICESIMP2016)



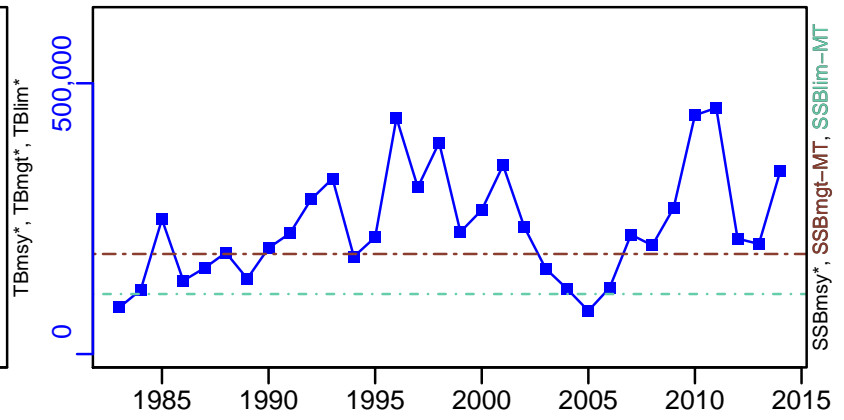
◆ Start Year ◆ End Year \* No Data

# Norway pout IIIa and North Sea [NPOUTIIIa-IV]

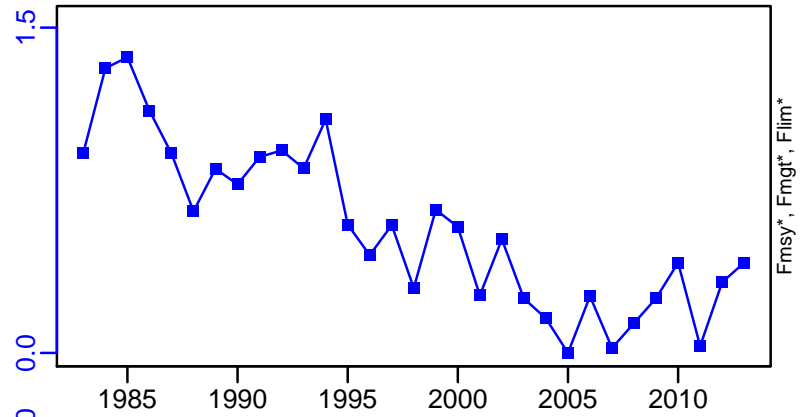
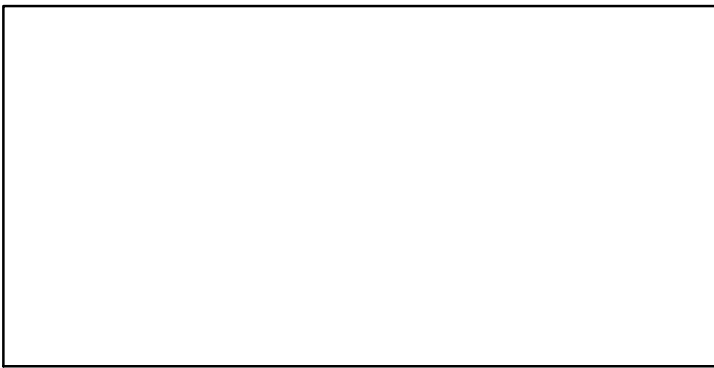
TB-MT (1983–2014–ICESIMP2016)



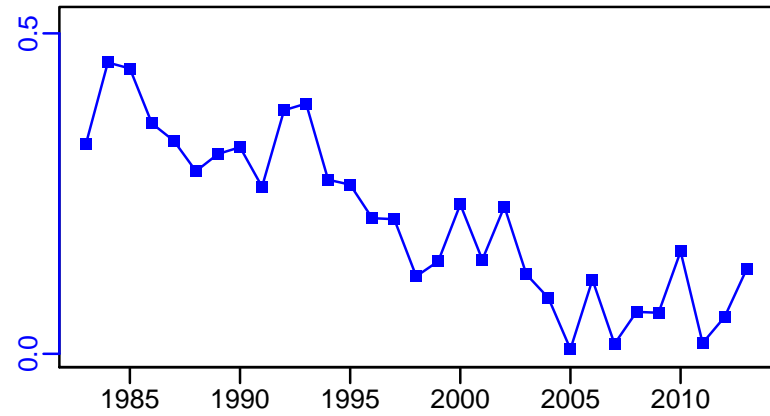
SSB-MT (1983–2014–ICESIMP2016)



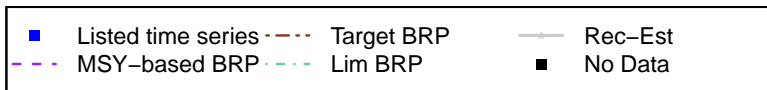
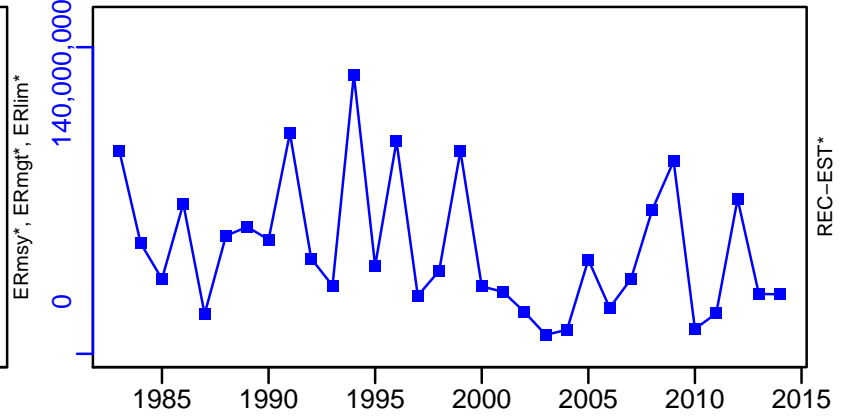
F-1/yr (1983–2014–ICESIMP2016)



ER-calc-ratio (1983–2014–ICESIMP2016)



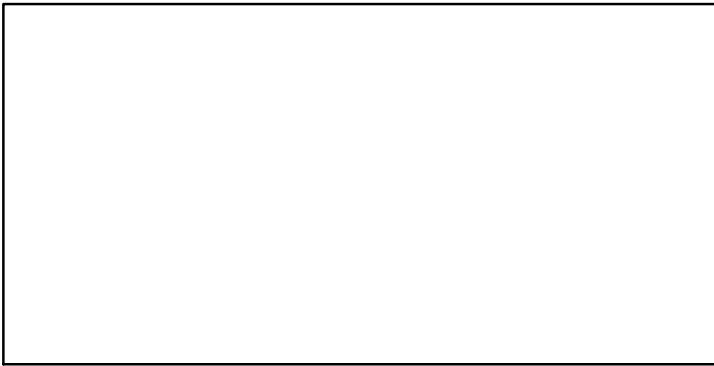
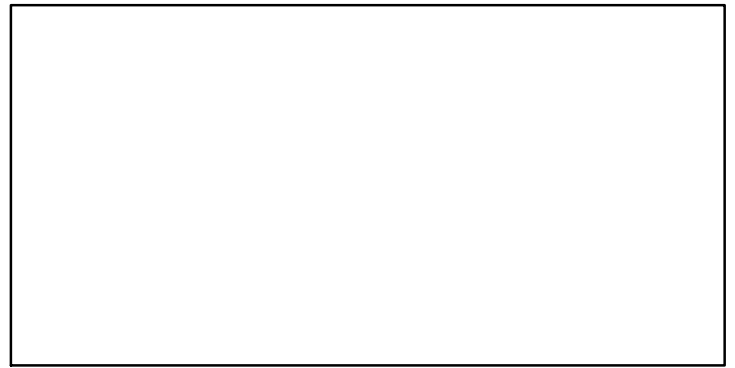
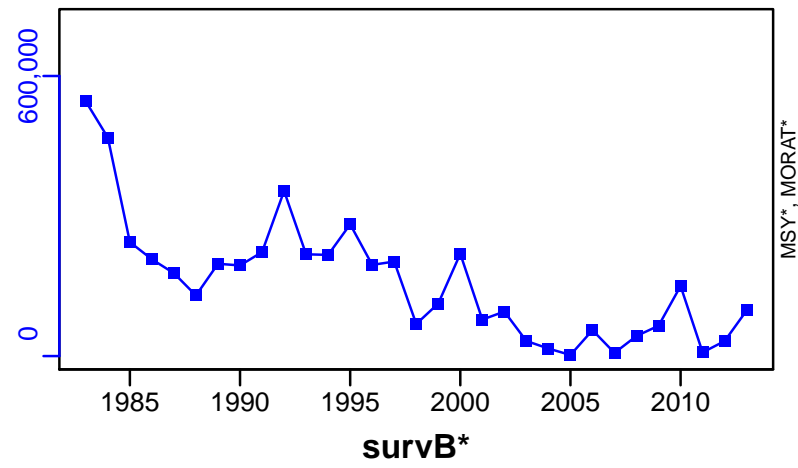
R-E00 (1983–2014–ICESIMP2016)



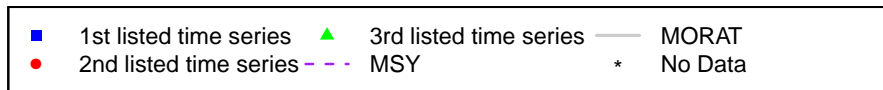
# Norway pout IIIa and North Sea [NPOUTIIIa-IV]

TL-MT, TC\*, RecC\* (1983-2014-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



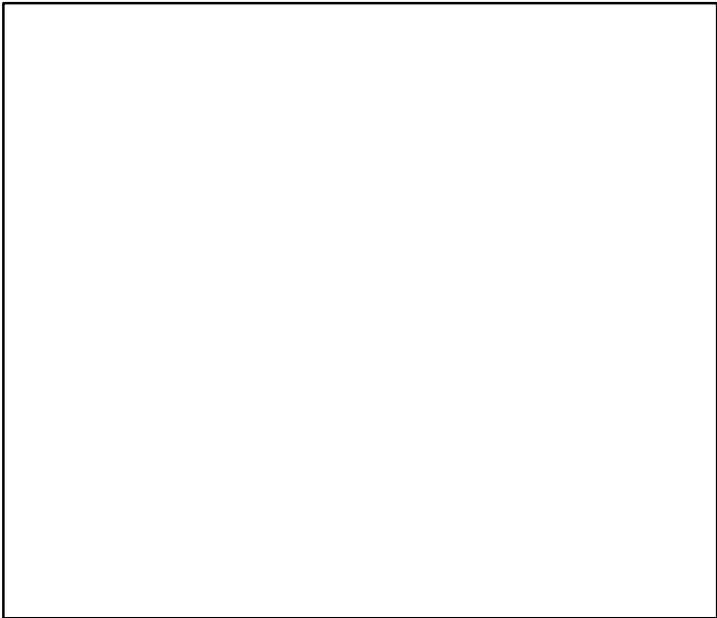
## Orange roughy Northeast Atlantic [OROUGHYNEATL]

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

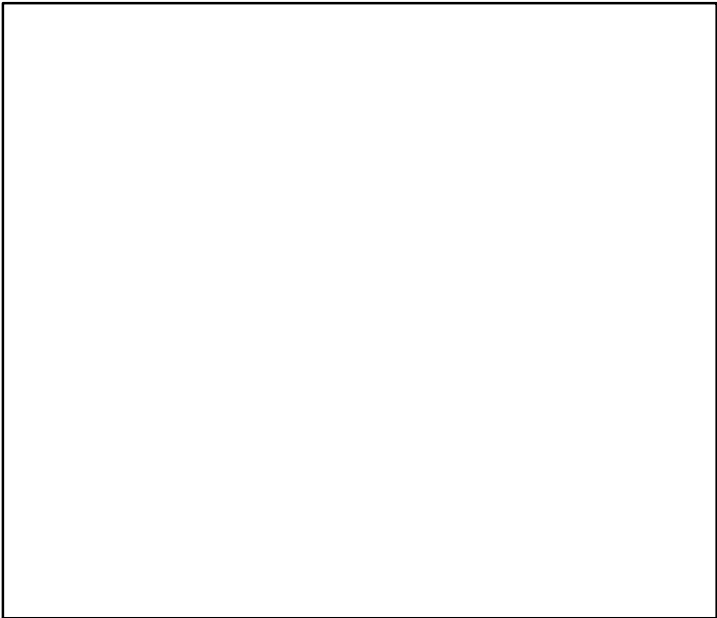
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

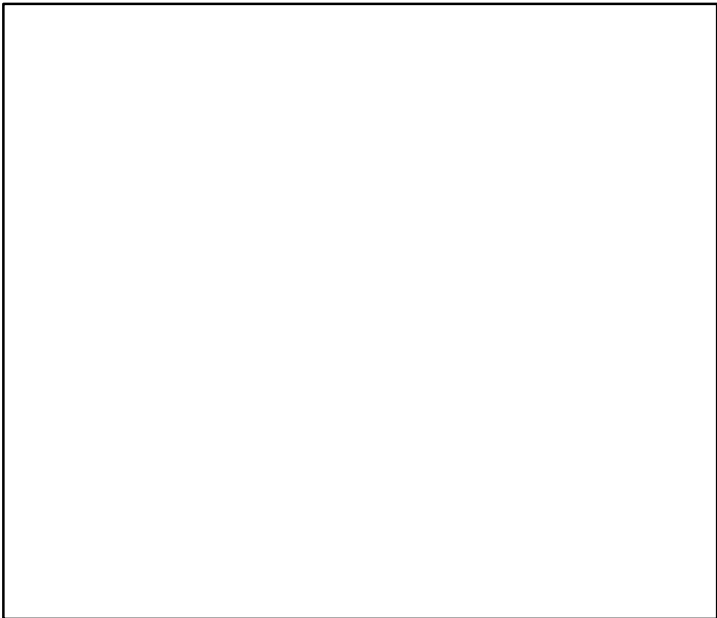
Kobe MSY\*



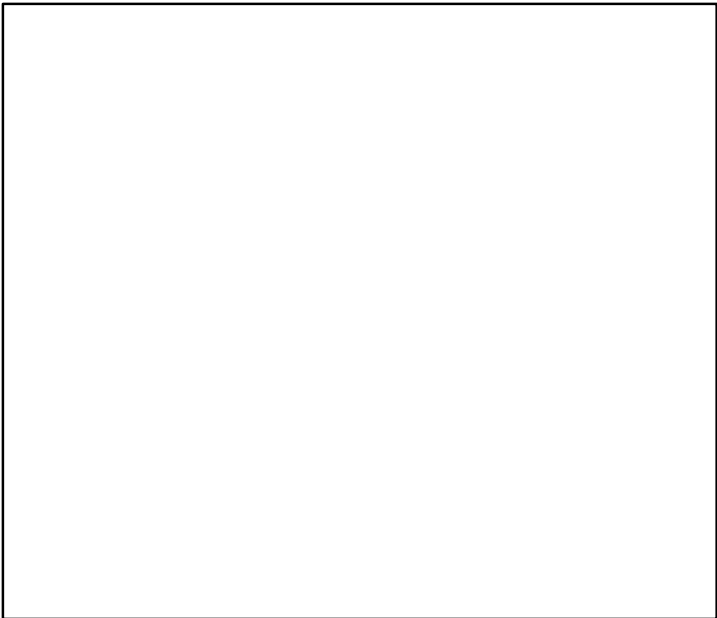
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year ◆ End Year \* No Data

Orange roughy Northeast Atlantic [OROUGHYNEATL]

TB\*



SSB\*



TN \*



F\*



ER\*

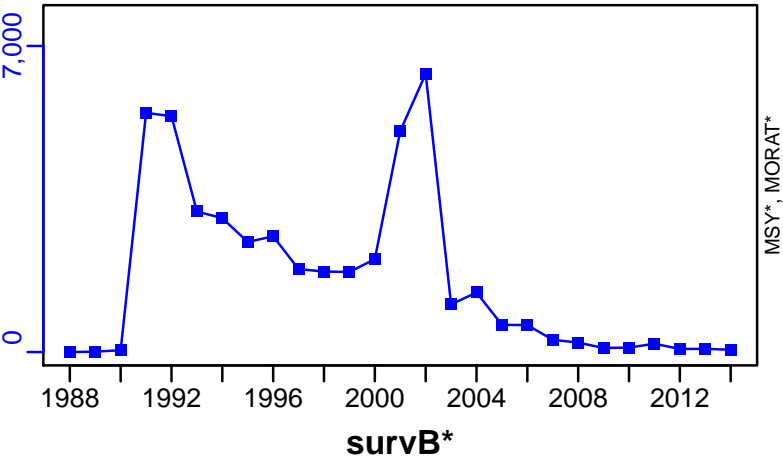


Recruits\*



Orange roughy Northeast Atlantic [OROUGHYNEATL]

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



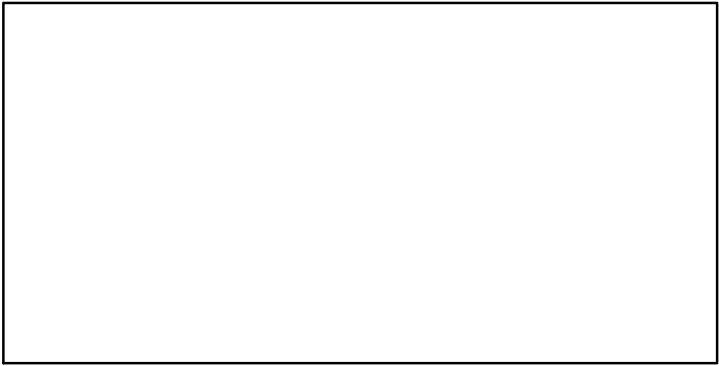
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

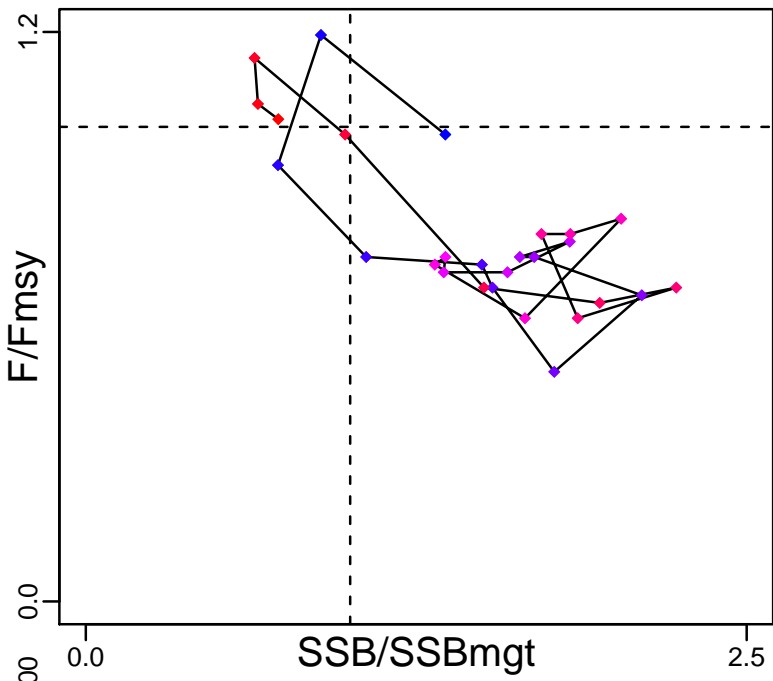
Metadata	
<b>Scientific Name</b>	Pandalus borealis
<b>Current Assess ID</b>	NIPAG-PANDALIIIaW-IVaE-1988-2015-ICESIMP2016
<b>Area</b>	IIIa (west) and IVa (east)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Joint NAFO and ICES Pandalus Assessment Working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

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

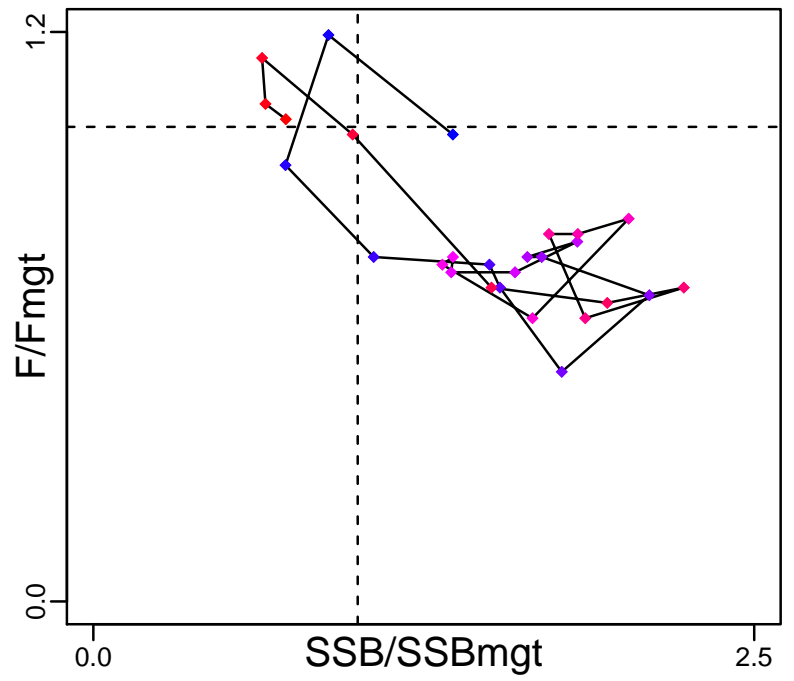
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	29,400	Both	-
<b>SSB</b>	SSB-MT	2015	12,300	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$8.59 \times 10^9$	-	0
<b>F</b>	F-1/yr	2015	0.63	-	1 to 3
<b>ER</b>	ER-calc-ratio	2015	0.413	-	-
<b>TC</b>	TC-MT	2015	12,100		
<b>TL</b>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

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

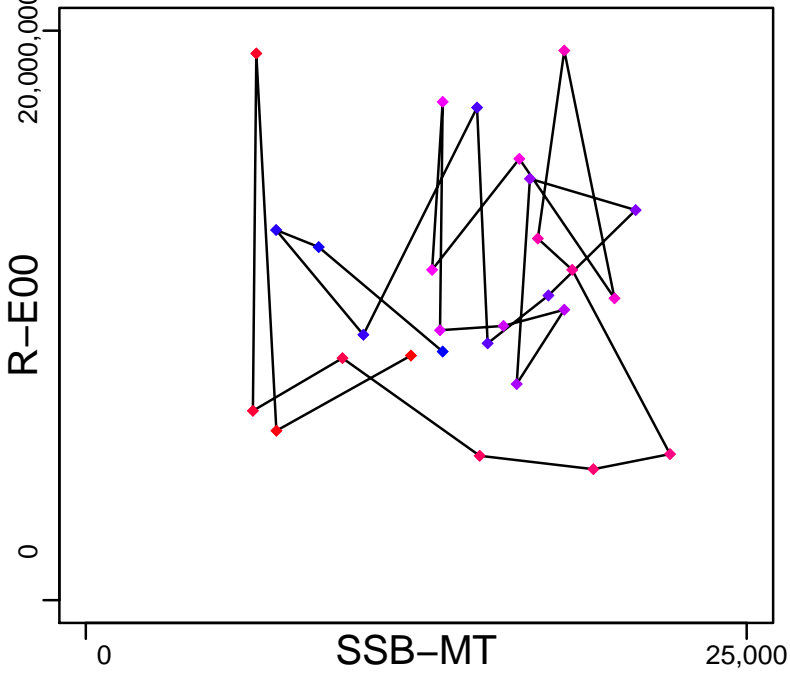
Kobe MSYpref (1988–2015–ICESIMP2016)



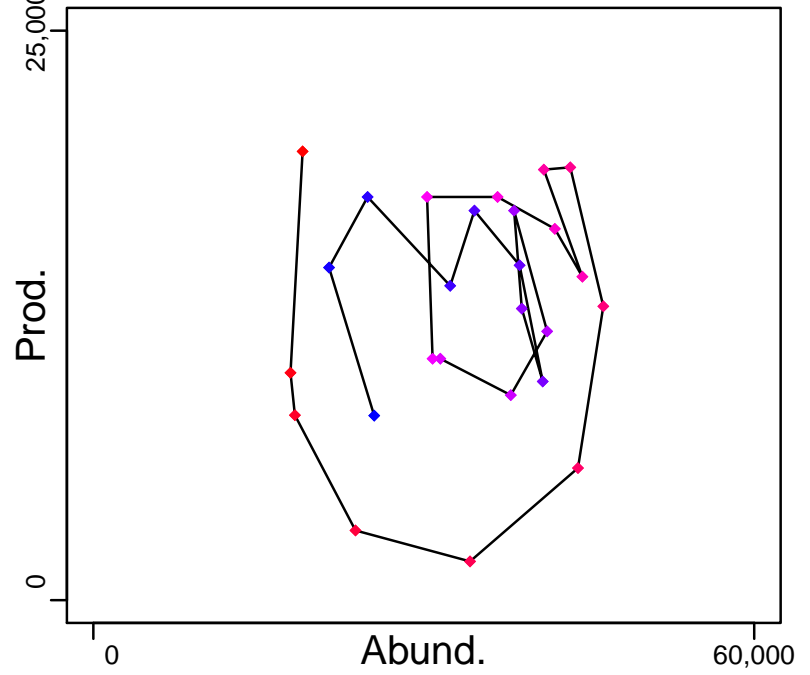
Kobe MGTpref (1988–2015–ICESIMP2016)



Spawner Recruit (1988–2015–ICESIMP2016)



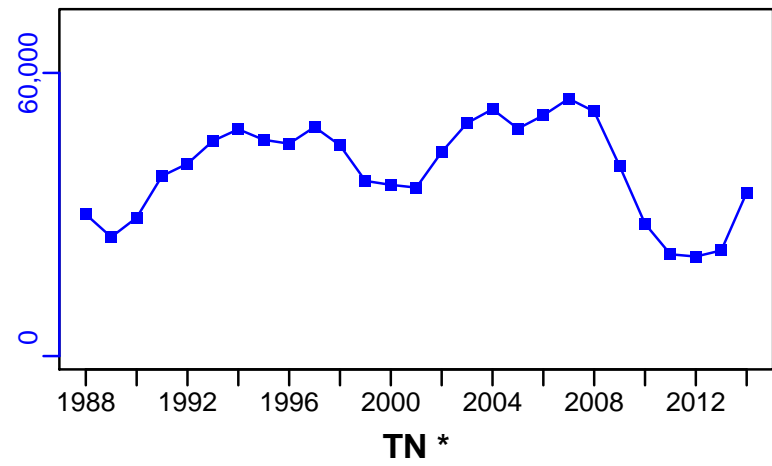
Production (1988–2015–ICESIMP2016)



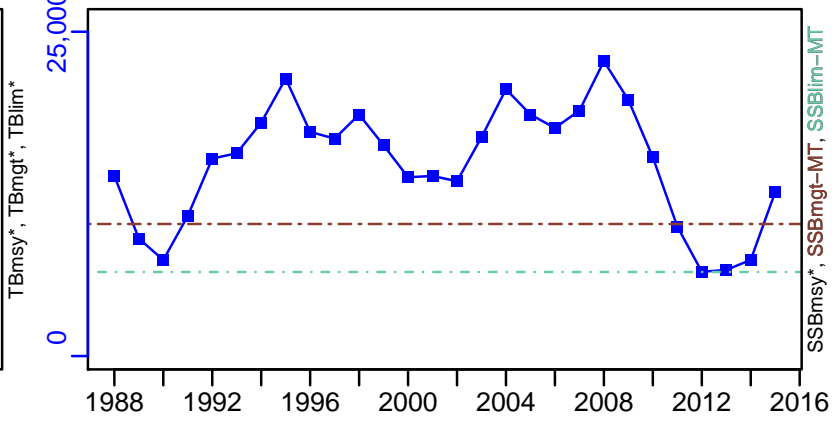
◆ Start Year ◆ End Year \* No Data

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

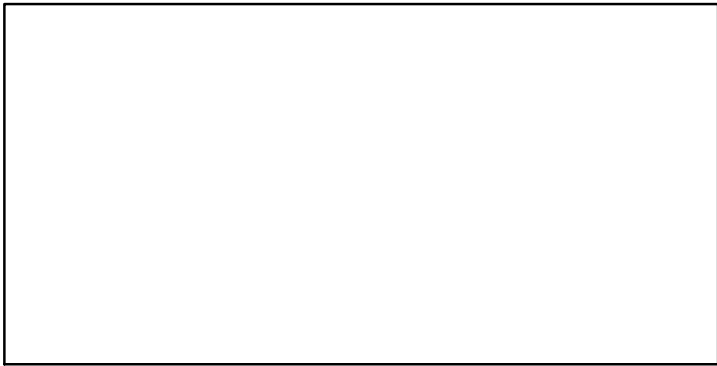
TB-MT (1988–2015–ICESIMP2016)



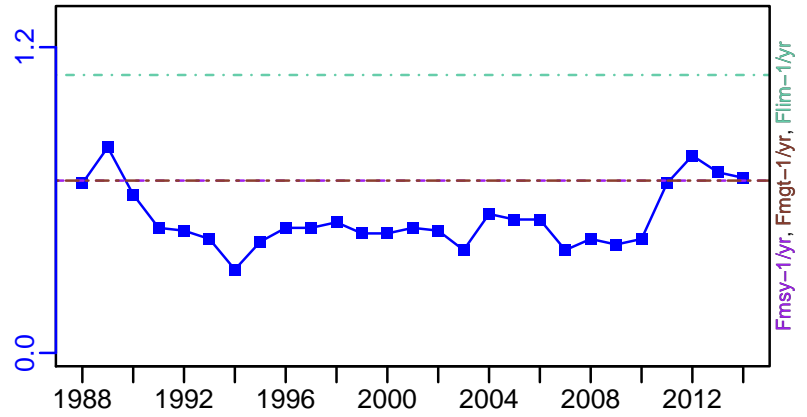
SSB-MT (1988–2015–ICESIMP2016)



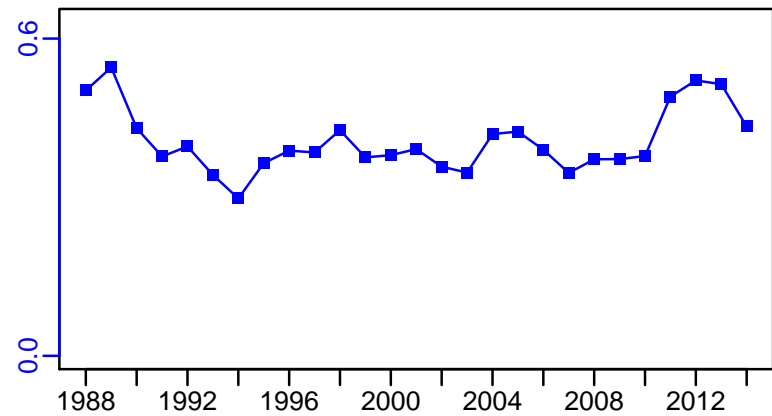
TN \*



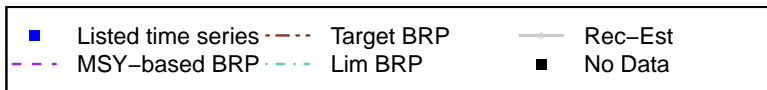
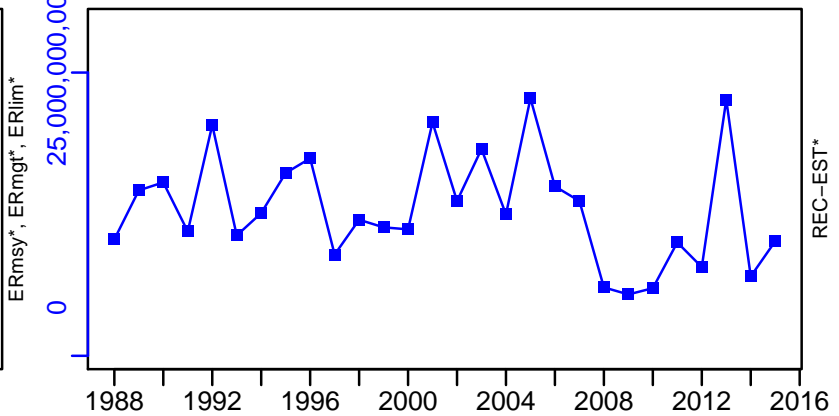
F-1/yr (1988–2015–ICESIMP2016)



ER-calc-ratio (1988–2015–ICESIMP2016)



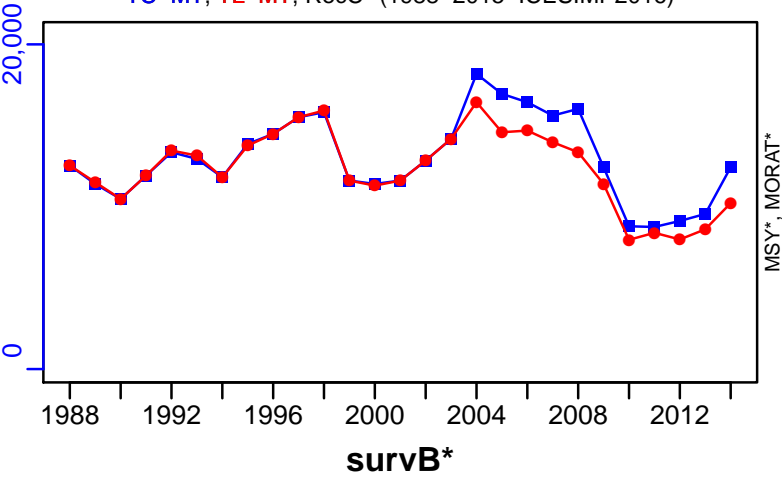
R-E00 (1988–2015–ICESIMP2016)



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

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

TAC\*, Cpair\*, Cadv\*



MSY\*, MORAT\*

CPUE\*

EFFORT\*

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

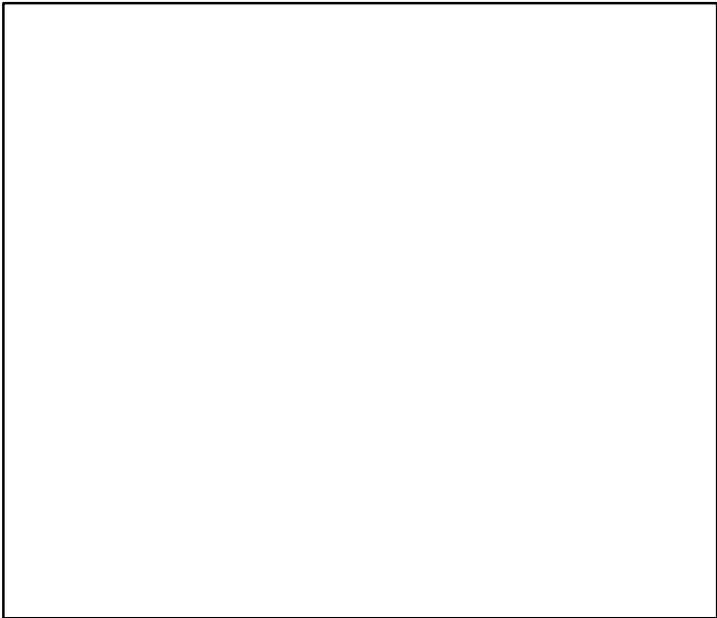
## Northern shrimp Northern North Sea [PANDALIVa]

Metadata	
<b>Scientific Name</b>	Pandalus borealis
<b>Current Assess ID</b>	NIPAG-PANDALIVa-1970-2015-ICESIMP2016
<b>Area</b>	Northern North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Joint NAFO and ICES Pandalus Assessment Working Group
<b>Asmts in RAM</b>	2015

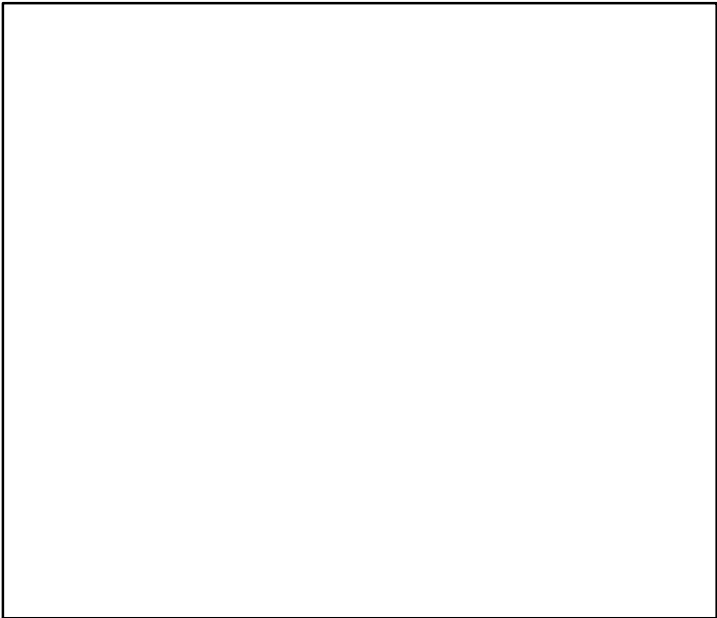
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

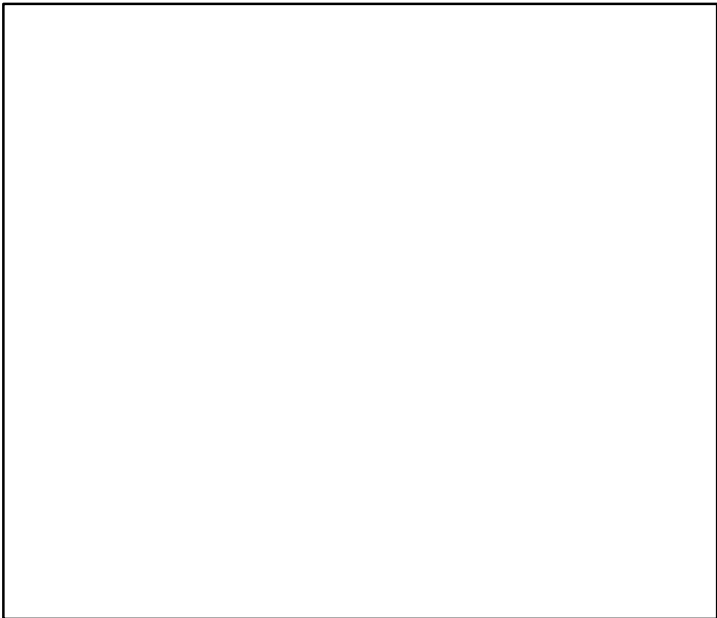
Kobe MSY\*



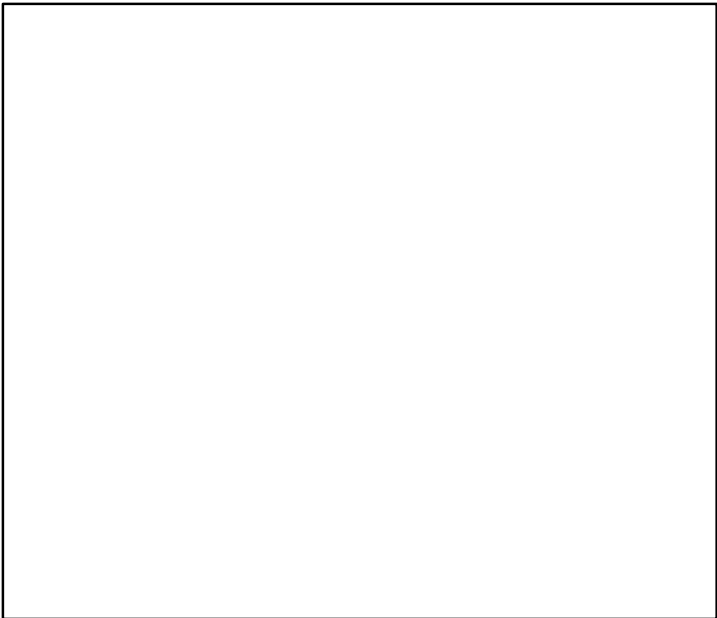
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

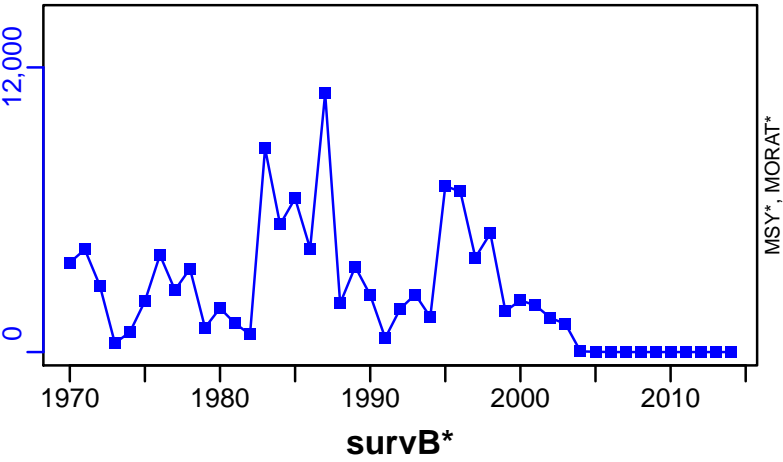


Recruits\*



Northern shrimp Northern North Sea [PANDALIVa]

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



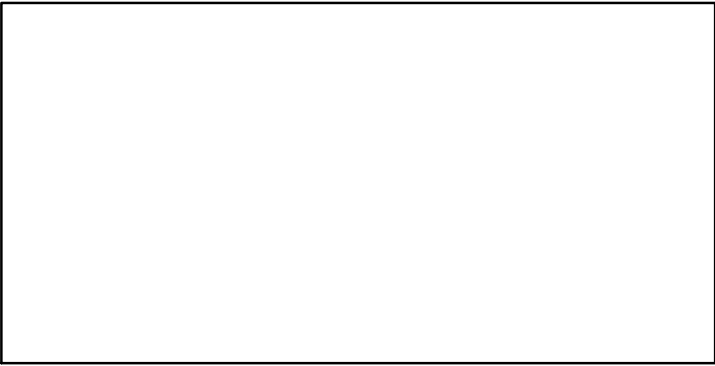
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## European Plaice Subdivisions 21-23 [PLAIC2123]

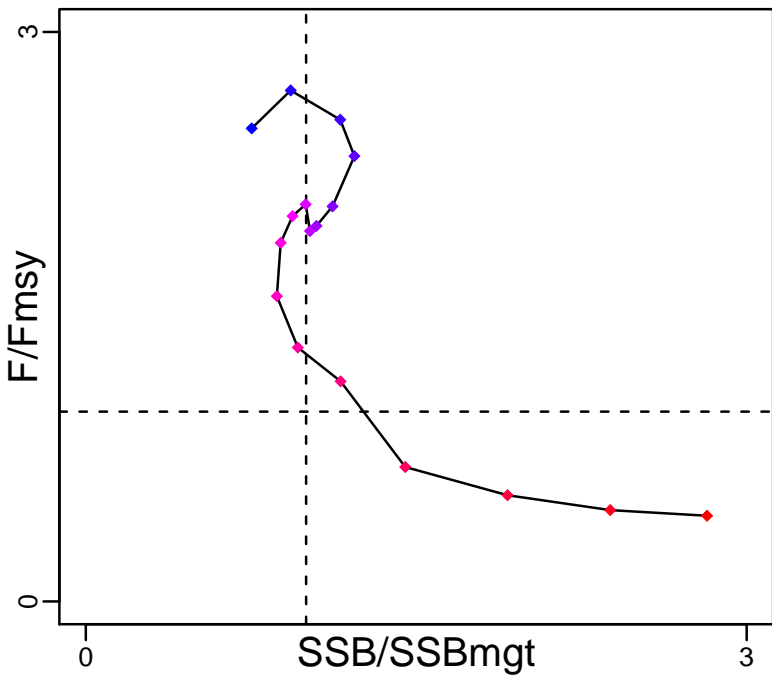
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGBFAS-PLAIC2123-1998-2016-ICESIMP2016
<b>Area</b>	Subdivisions 21-23
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.37
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	5553
<b>Fmgt</b>	Fmgt-1/yr	2016	0.37
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	4077
<b>Flim</b>	Flim-1/yr	2016	1.01
<b>ERlim</b>	-	-	-

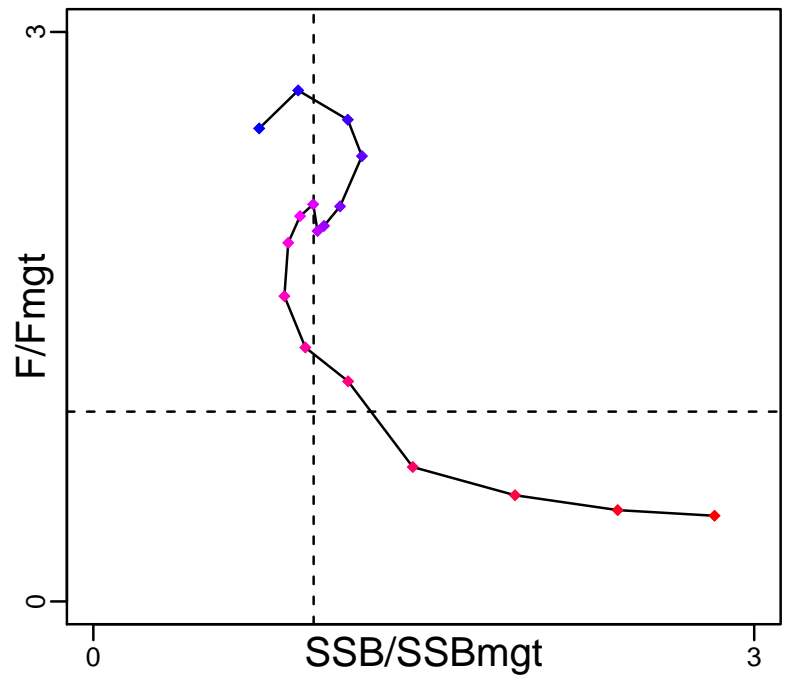
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	19,100	Both	-
<b>SSB</b>	SSB-MT	2016	17,900	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$3.4 \times 10^7$	-	1
<b>F</b>	F-1/yr	2016	0.167	-	3 to 5
<b>ER</b>	ER-calc-ratio	2016	0.194	-	-
<b>TC</b>	TC-MT	2016	3710		
<b>TL</b>	TL-MT	2016	2690		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.451		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	3.219		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.451		
<b>ER/ERmgt</b>	-	-	-		

# European Plaice Subdivisions 21–23 [PLAIC2123]

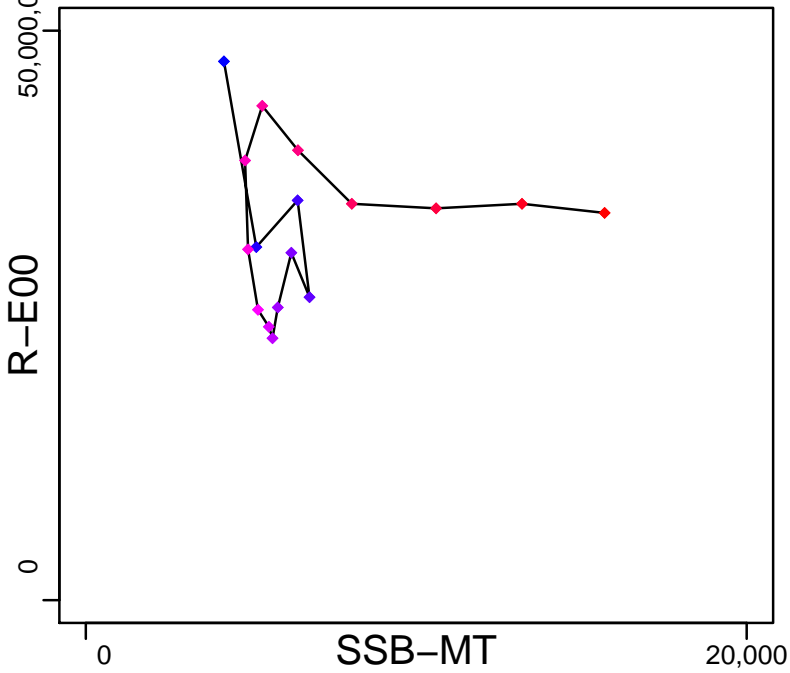
Kobe MSYpref (1998–2016–ICESIMP2016)



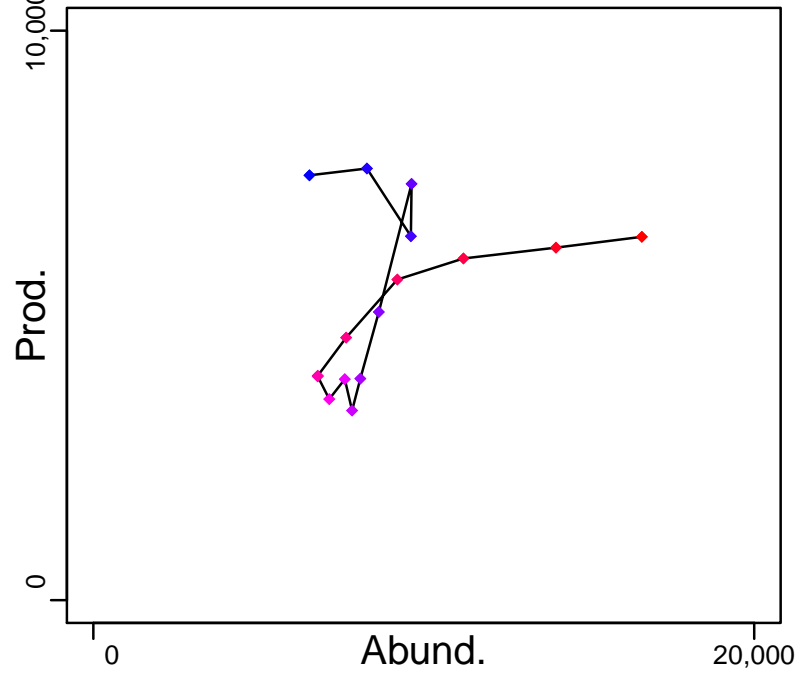
Kobe MGTpref (1998–2016–ICESIMP2016)



Spawner Recruit (1998–2016–ICESIMP2016)



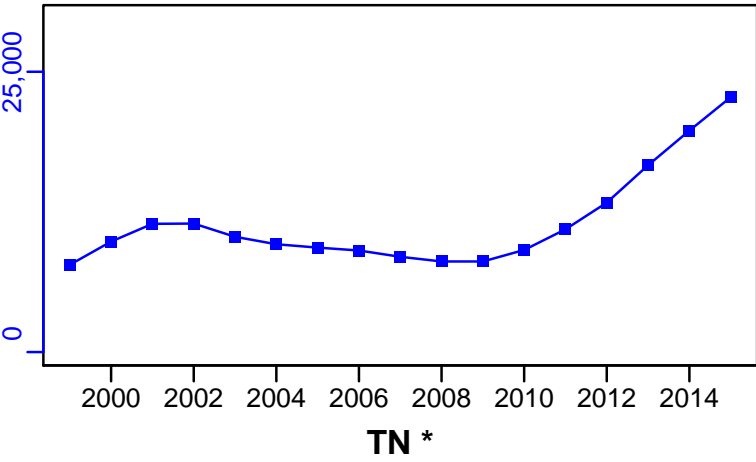
Production (1998–2016–ICESIMP2016)



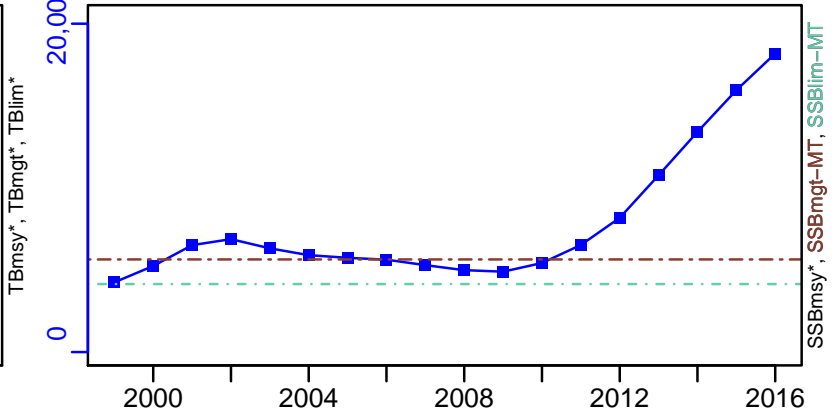
◆ Start Year ◆ End Year \* No Data

# European Plaice Subdivisions 21–23 [PLAIC2123]

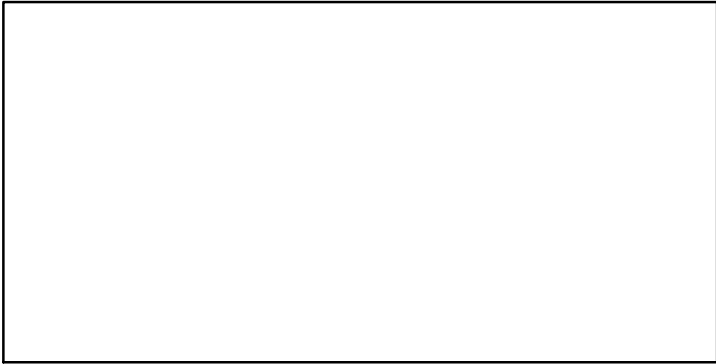
TB-MT (1998–2016–ICESIMP2016)



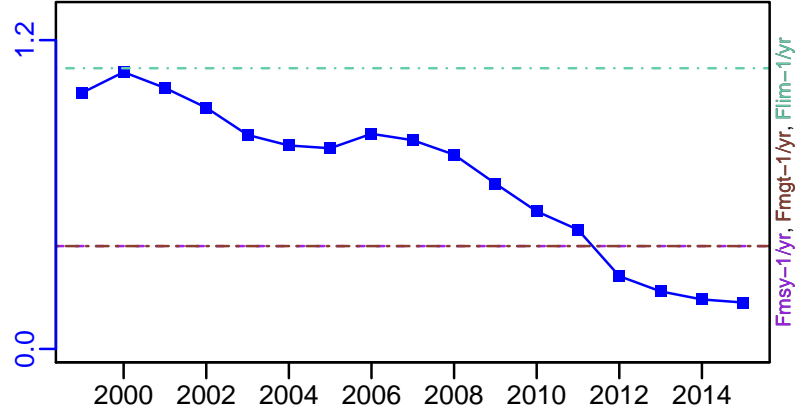
SSB-MT (1998–2016–ICESIMP2016)



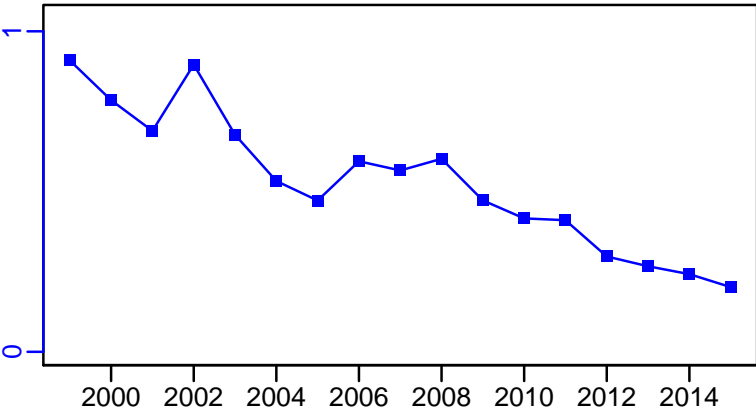
TN \*



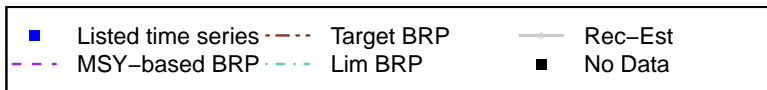
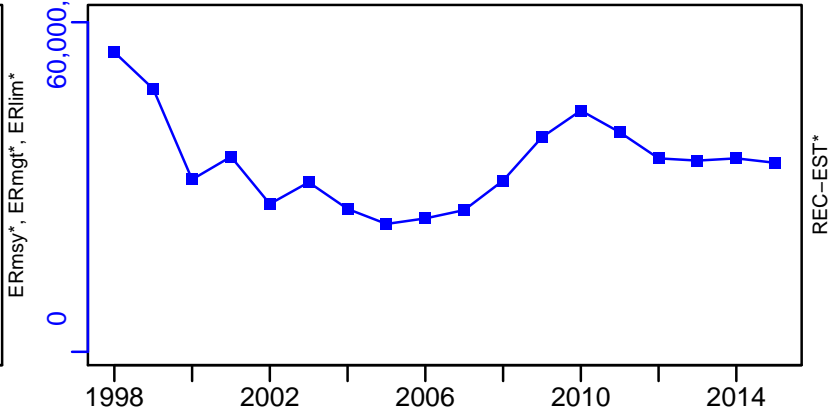
F-1/yr (1998–2016–ICESIMP2016)



ER-calc-ratio (1998–2016–ICESIMP2016)



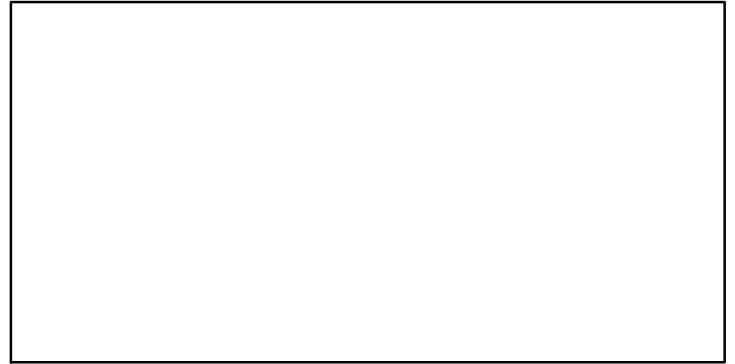
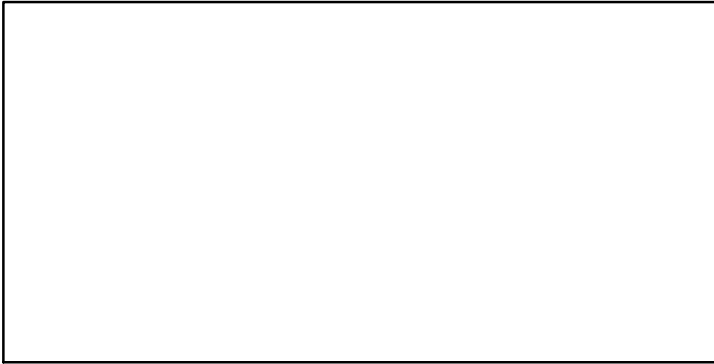
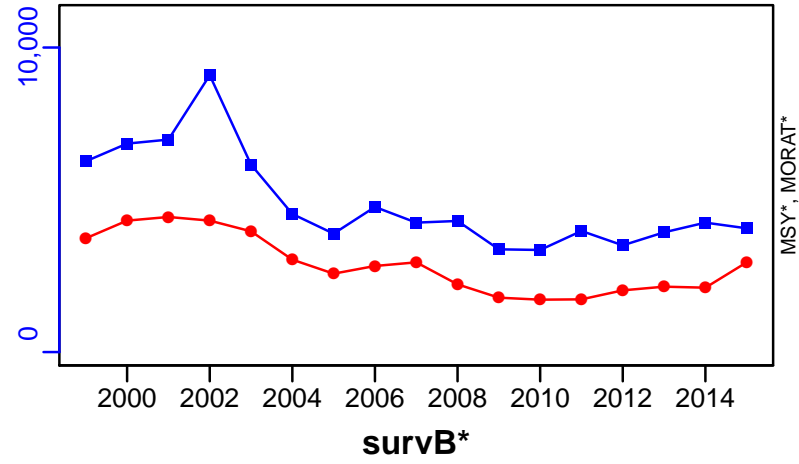
R-E00 (1998–2016–ICESIMP2016)



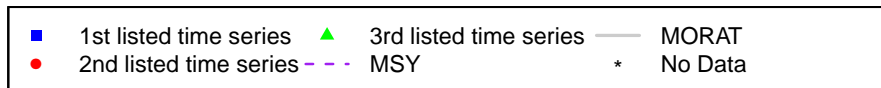
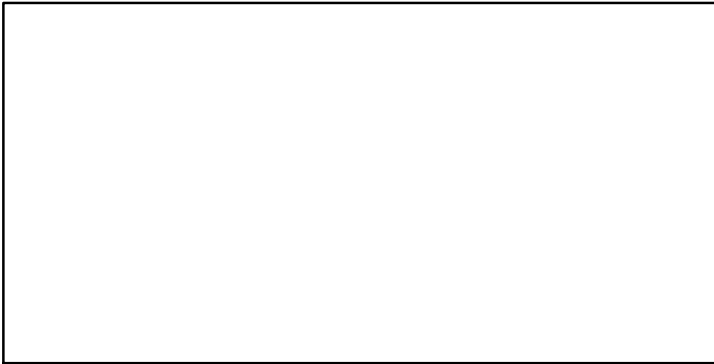
European Plaice Subdivisions 21–23 [PLAIC2123]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



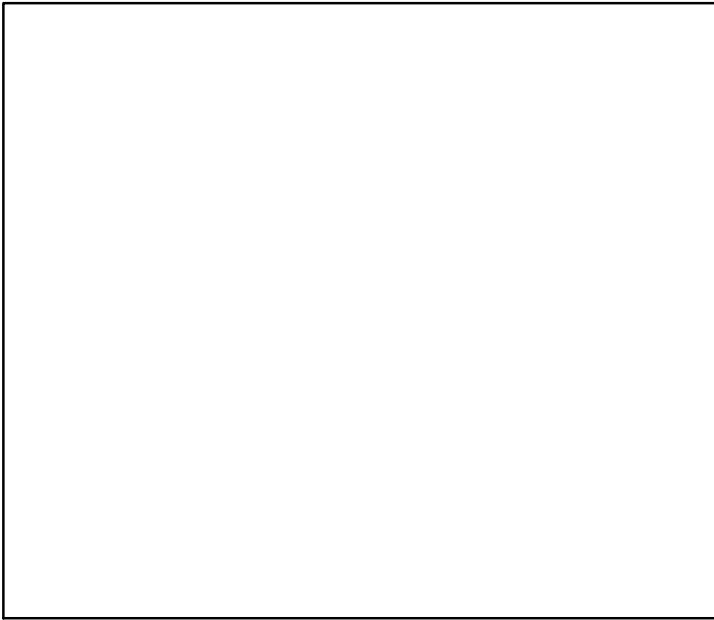
## European Plaice Subdivisions 24-32 [PLAIC2432]

Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGBFAS-PLAIC2432-2001-2015-ICESIMP2016
<b>Area</b>	Subdivisions 24-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2015

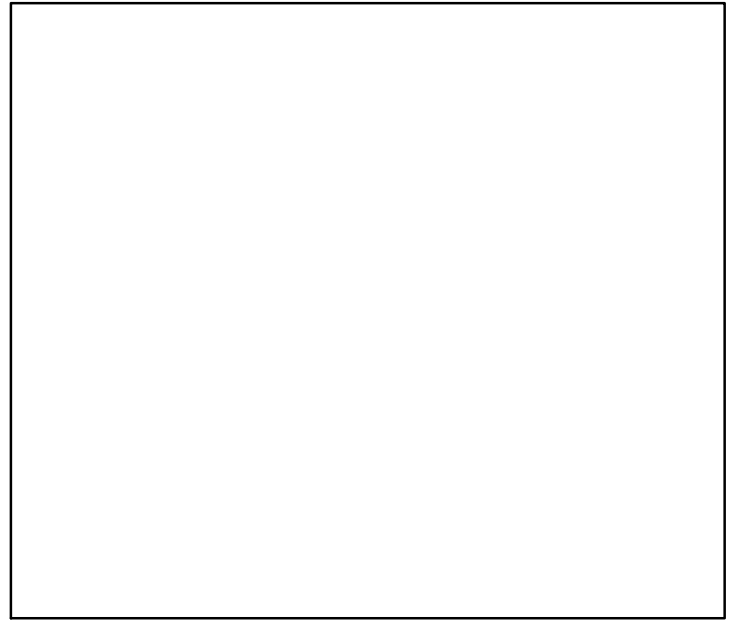
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2015	2.23	Both	-
TN	-	-	-	-	-
R	R-relative	2015	2.03	-	1
F	F-relative	2015	0.883	-	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	-	-	-		

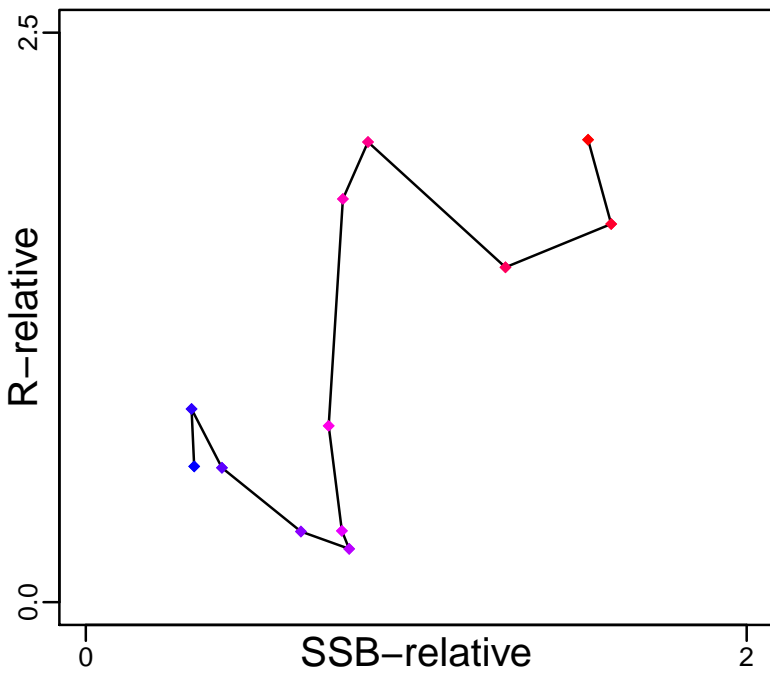
**Kobe MSY\***



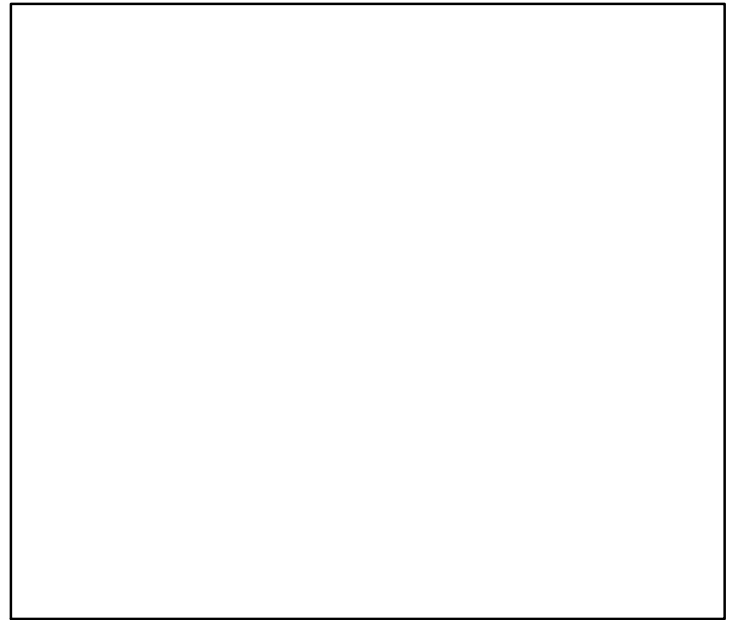
**Kobe MGT\***



**Spawner Recruit** (2001–2015–ICESIMP2016)



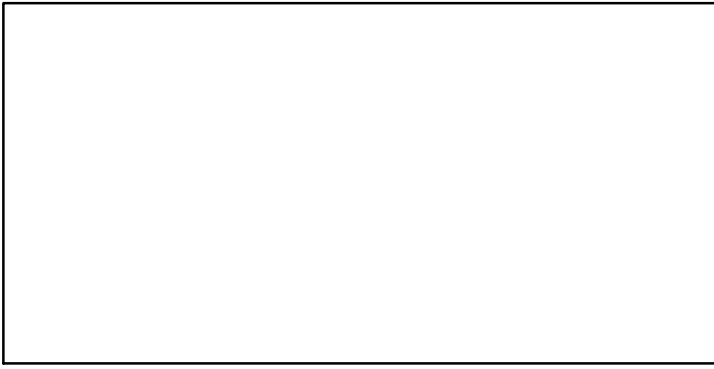
**Production\***



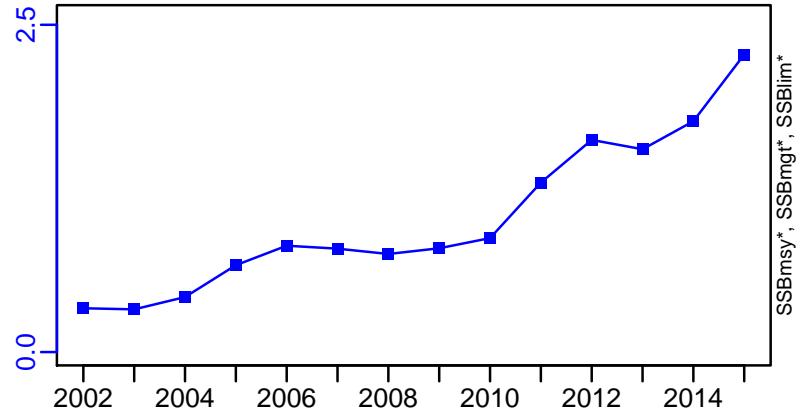
◆ Start Year ◆ End Year \* No Data

European Plaice Subdivisions 24–32 [PLAIC2432]

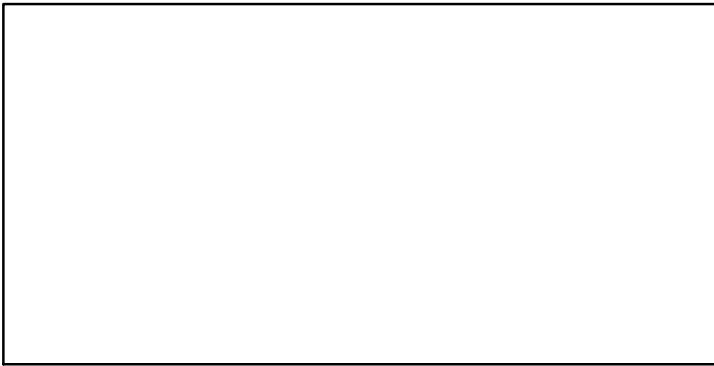
TB\*



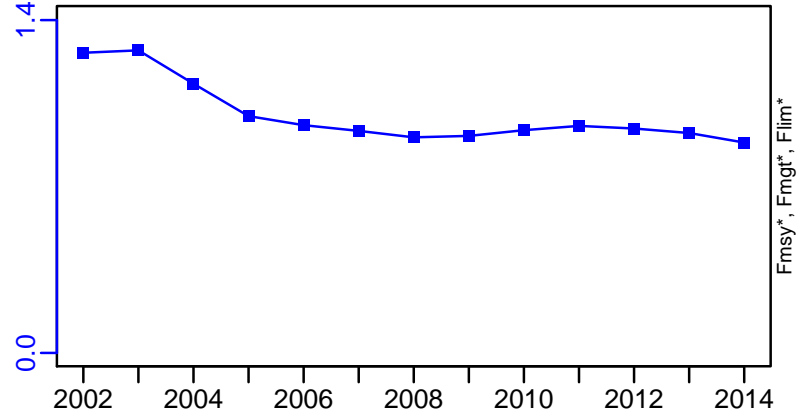
SSB-relative (2001–2015–ICESIMP2016)



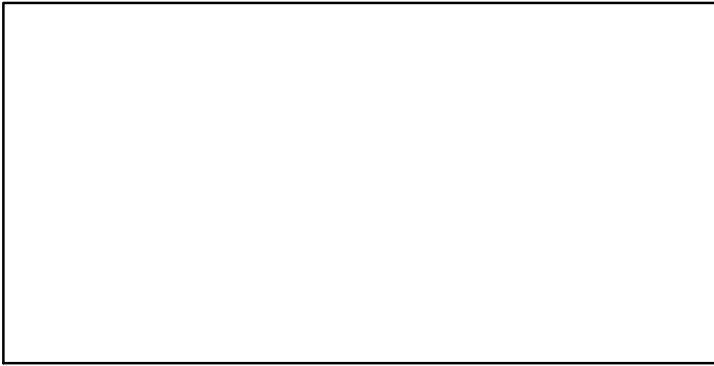
TN \*



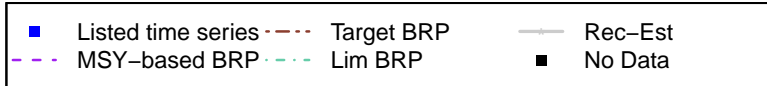
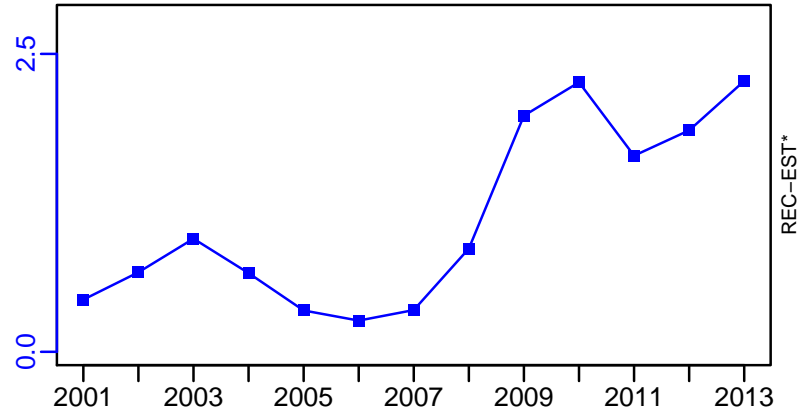
F-relative (2001–2015–ICESIMP2016)



ER\*

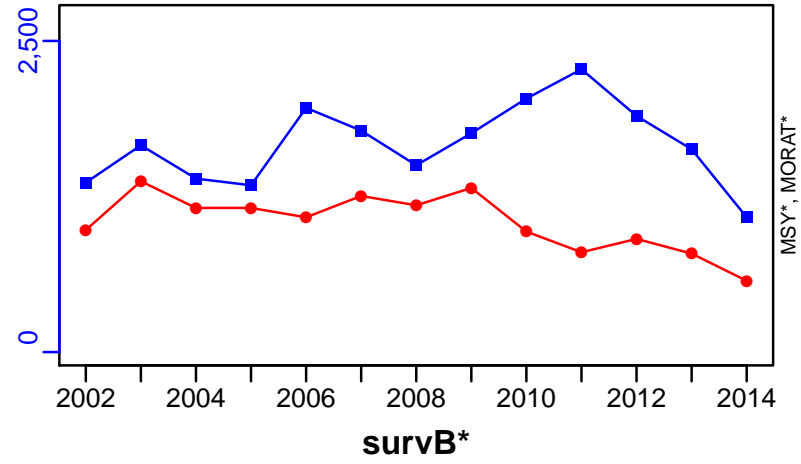


R-relative (2001–2015–ICESIMP2016)

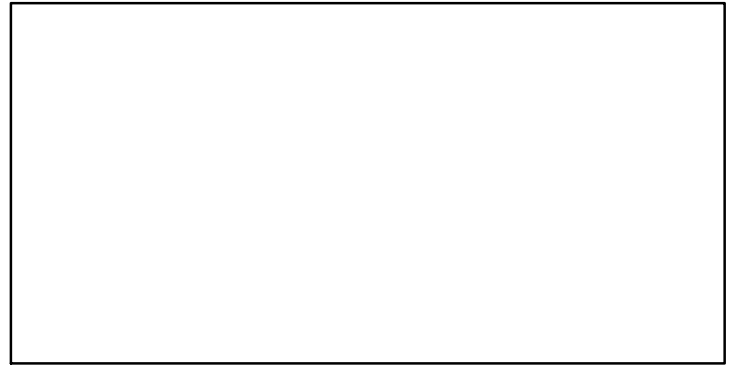


European Plaice Subdivisions 24–32 [PLAIC2432]

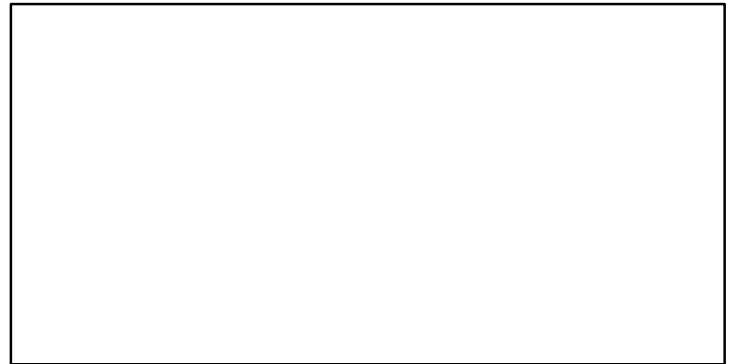
TC-MT, TL-MT, RecC\* (2001–2015–ICESIMP2016)



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]

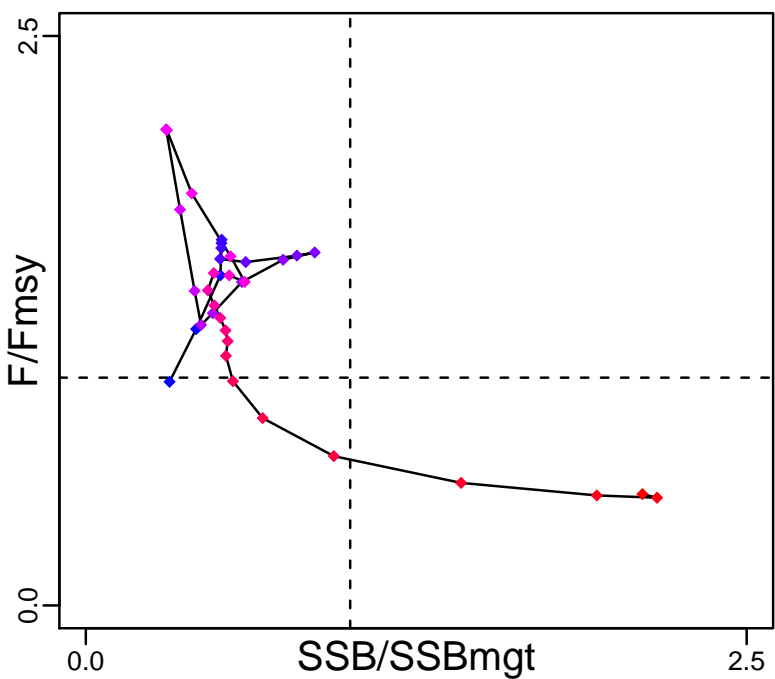
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGNSSK-PLAIC7d-1979-2016-ICESIMP2016
<b>Area</b>	Eastern English Channel
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.25
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	25,826
<b>Fmgt</b>	Fmgt-1/yr	2016	0.25
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	18,448
<b>Flim</b>	Flim-1/yr	2016	0.5
<b>ERlim</b>	-	-	-

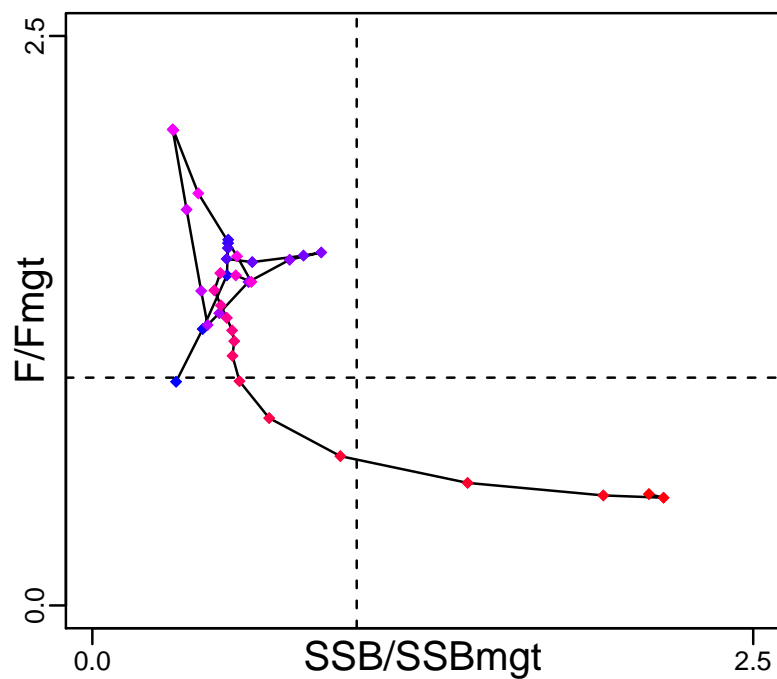
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	9230	Both	1+
<b>SSB</b>	SSB-MT	2016	63,500	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.55 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.122	-	3 to 6
<b>ER</b>	ER-ratio	2010	0.344	-	-
<b>TC</b>	TC-MT	2016	5790		
<b>TL</b>	TL-MT	2016	3250		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.489		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	2.46		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.489		
<b>ER/ERmgt</b>	-	-	-		

# European Plaice ICES VIId [PLAIC7d]

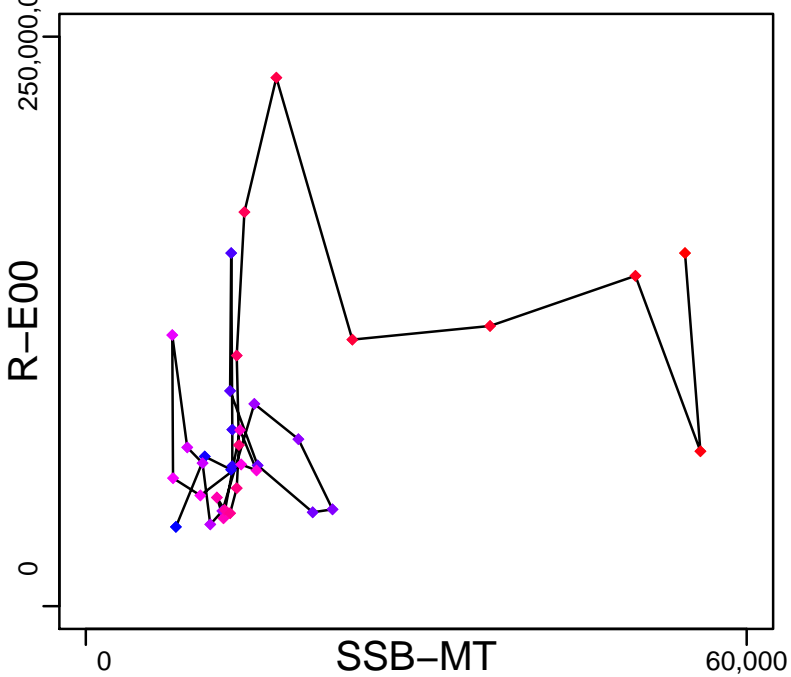
Kobe MSYpref (1979–2016–ICESIMP2016)



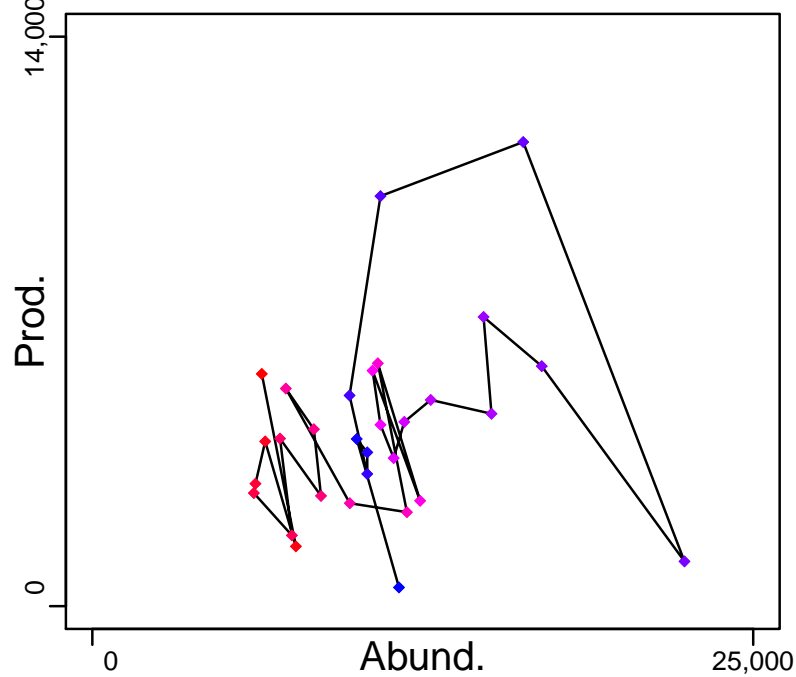
Kobe MGTpref (1979–2016–ICESIMP2016)



Spawner Recruit (1979–2016–ICESIMP2016)

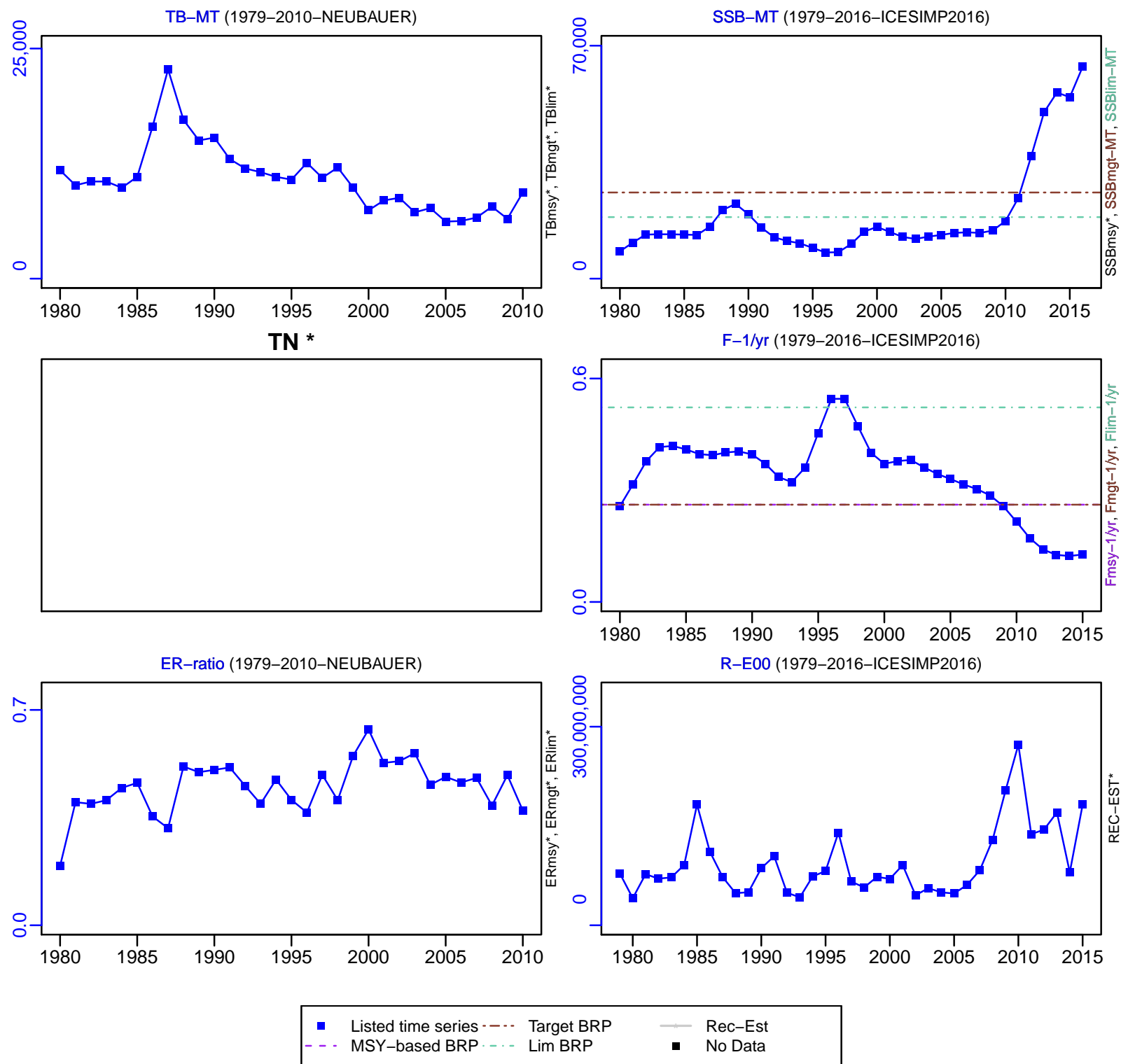


Production (1979–2010–NEUBAUER)



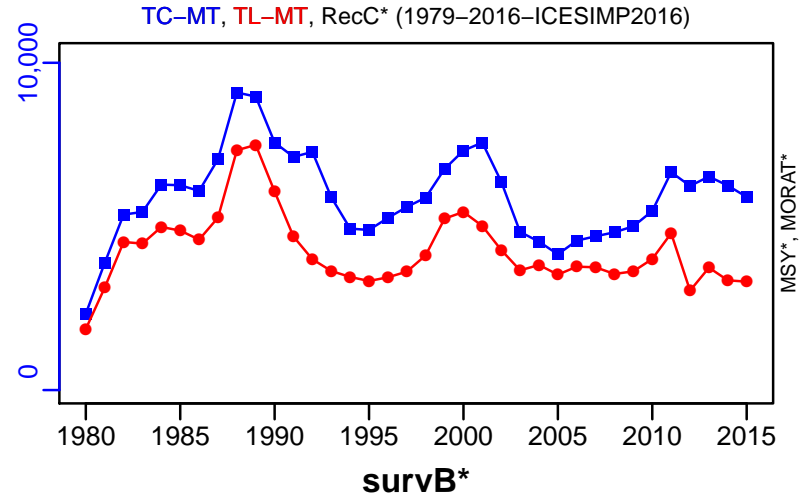
◆ Start Year ◆ End Year \* No Data

# European Plaice ICES VIId [PLAIC7d]

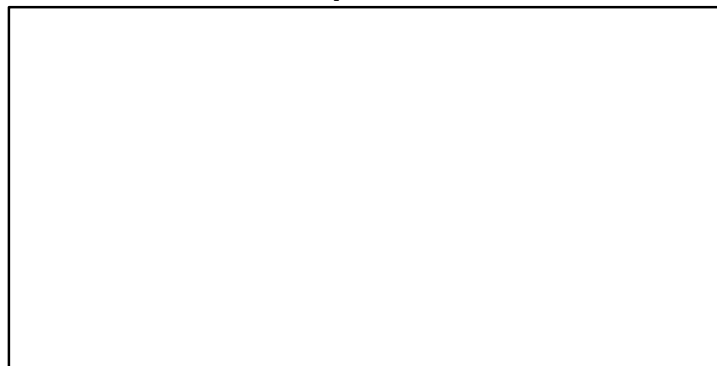


# European Plaice ICES VIId [PLAIC7d]

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



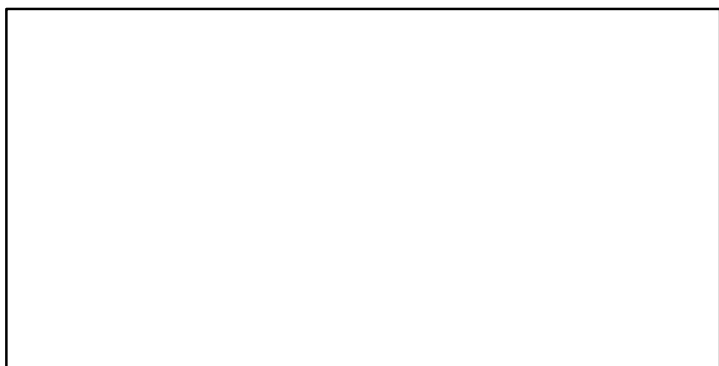
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



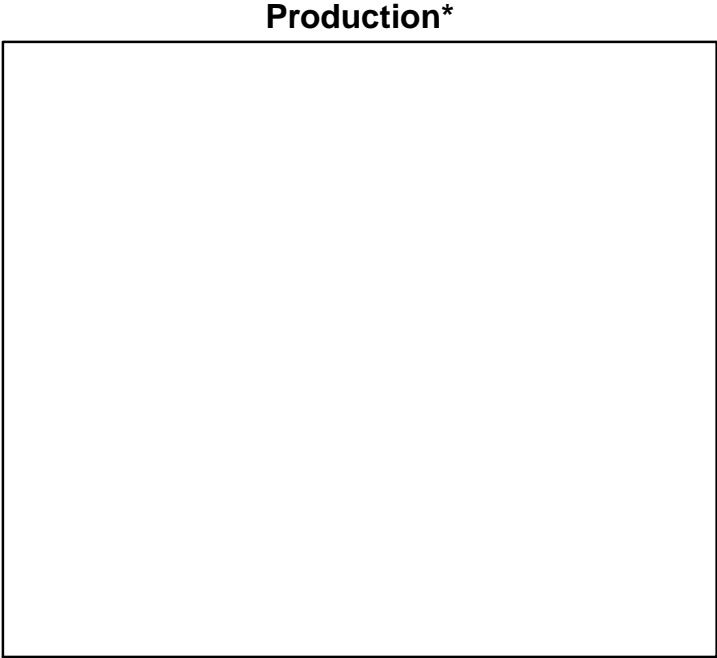
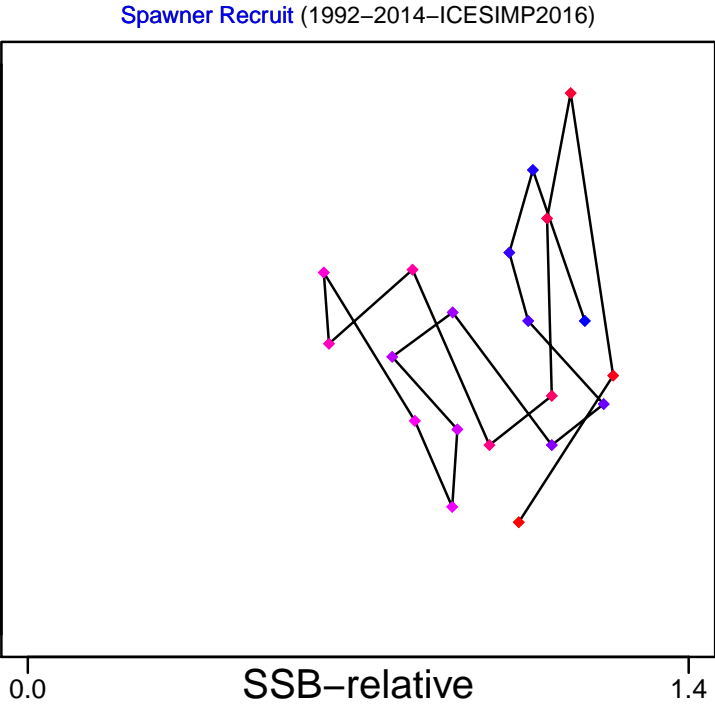
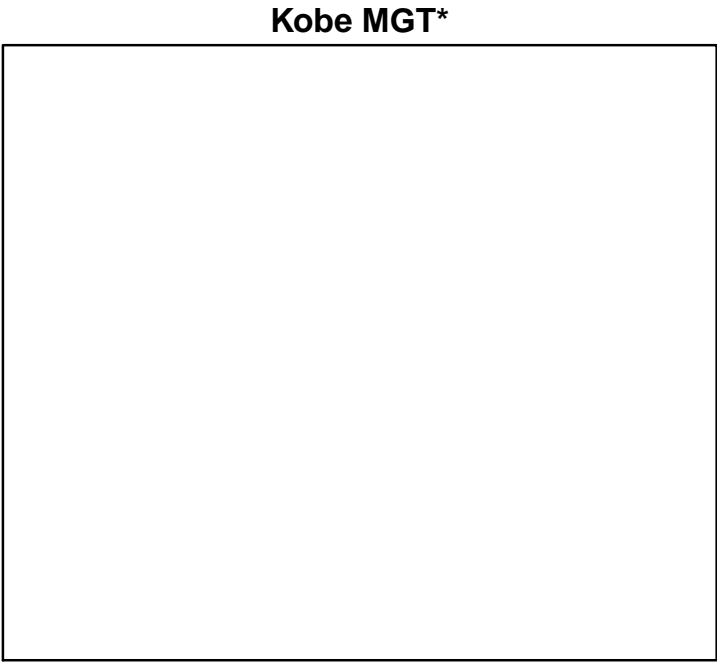
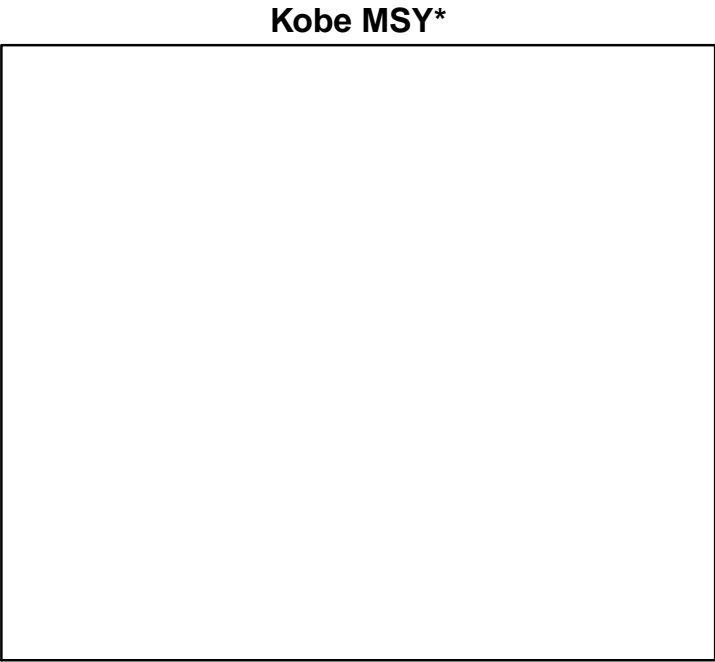
■ 1st listed time series    ▲ 3rd listed time series    — MORAT  
● 2nd listed time series    - - - MSY    \* No Data

## European Plaice ICES VII-f-g [PLAICCELT]

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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.12
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

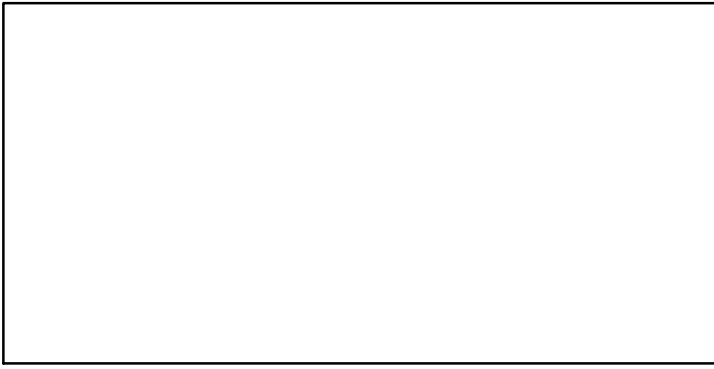
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-relative	2014	1.33	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-relative	2014	0.393	-	1
<b>F</b>	F-relative	2014	1.29	-	3 to 6
<b>ER</b>	ER-ratio	2010	0.222	-	-
<b>TC</b>	TC-MT	2014	1670		
<b>TL</b>	TL-MT	2016	381		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		



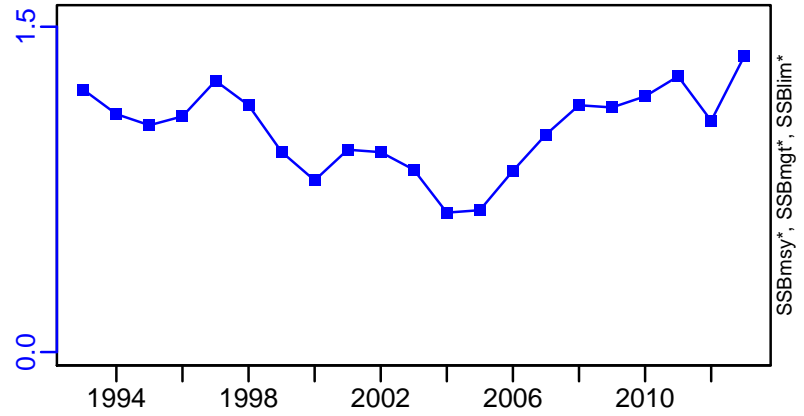
◆ Start Year ◆ End Year \* No Data

# European Plaice ICES VII-f-g [PLAICCELT]

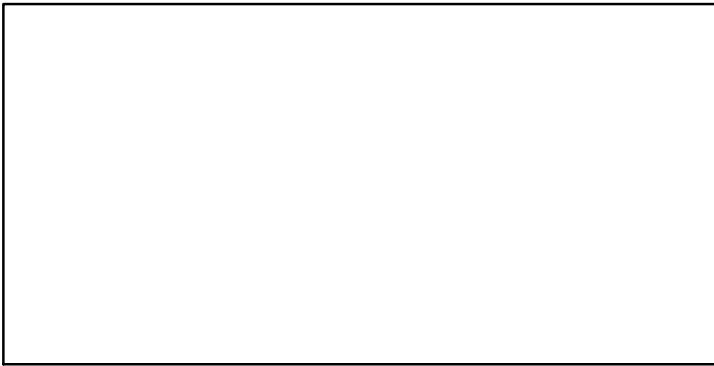
TB\*



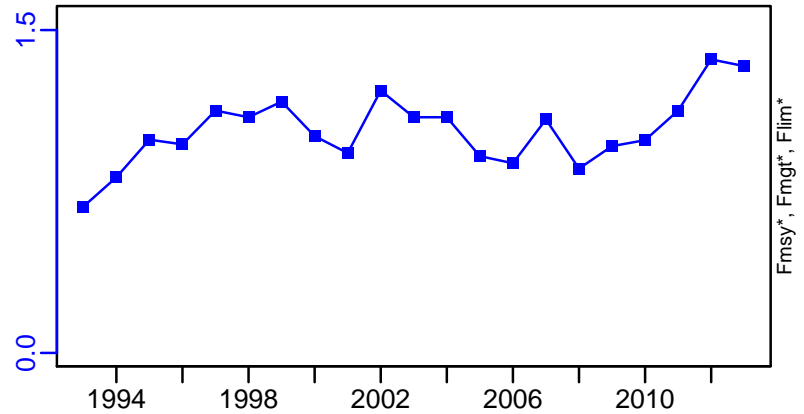
SSB-relative (1992-2014-ICESIMP2016)



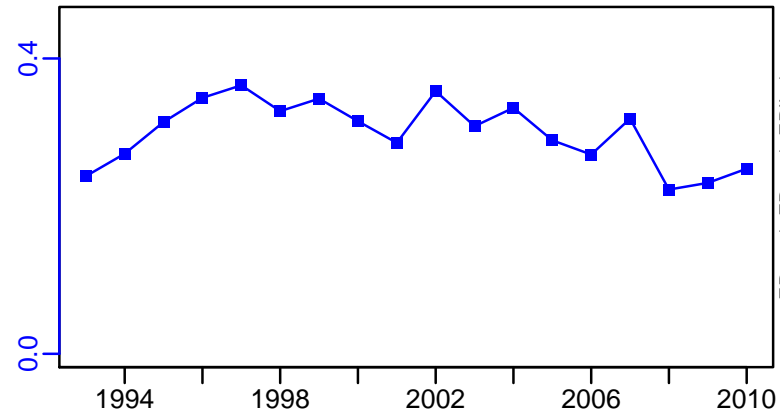
TN \*



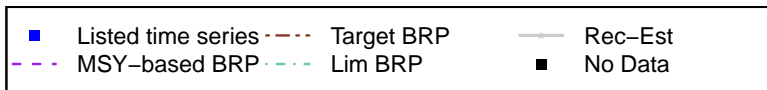
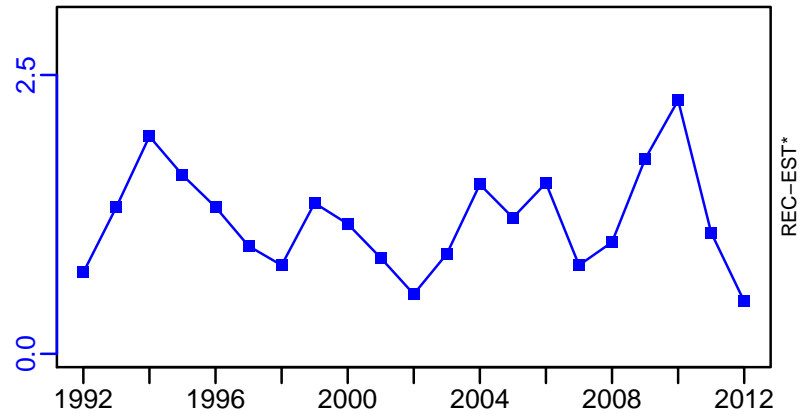
F-relative (1992-2014-ICESIMP2016)



ER-ratio (1992-2010-NEUBAUER)

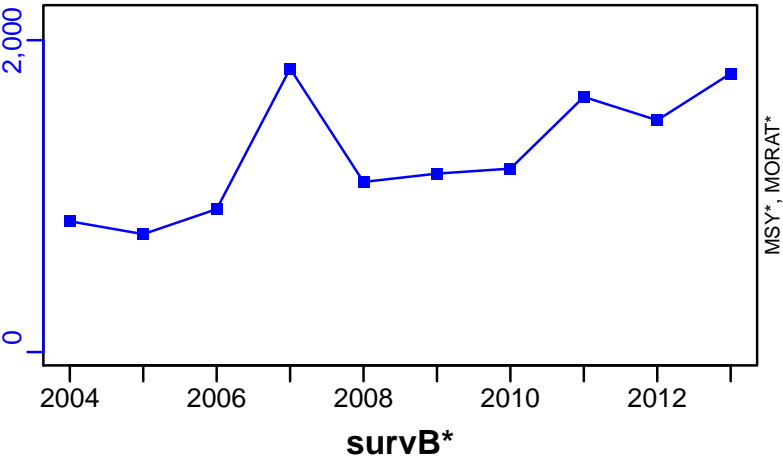


R-relative (1992-2014-ICESIMP2016)



European Plaice ICES VII-f-g [PLAICCELT]

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



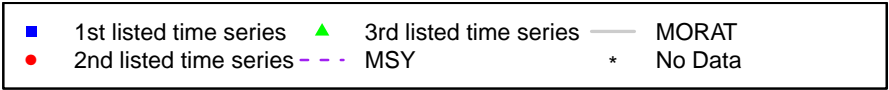
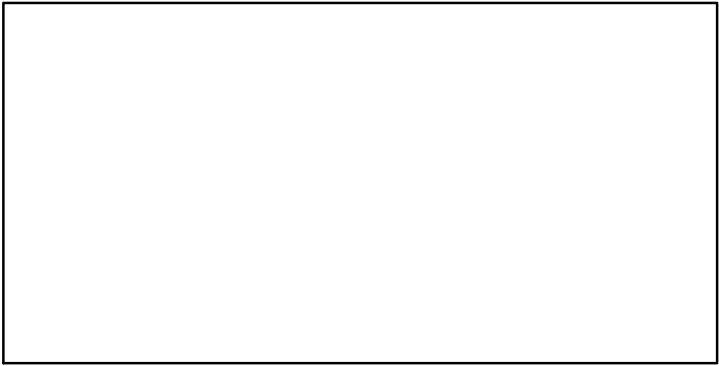
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## European Plaice ICES Vile [PLAICECHW]

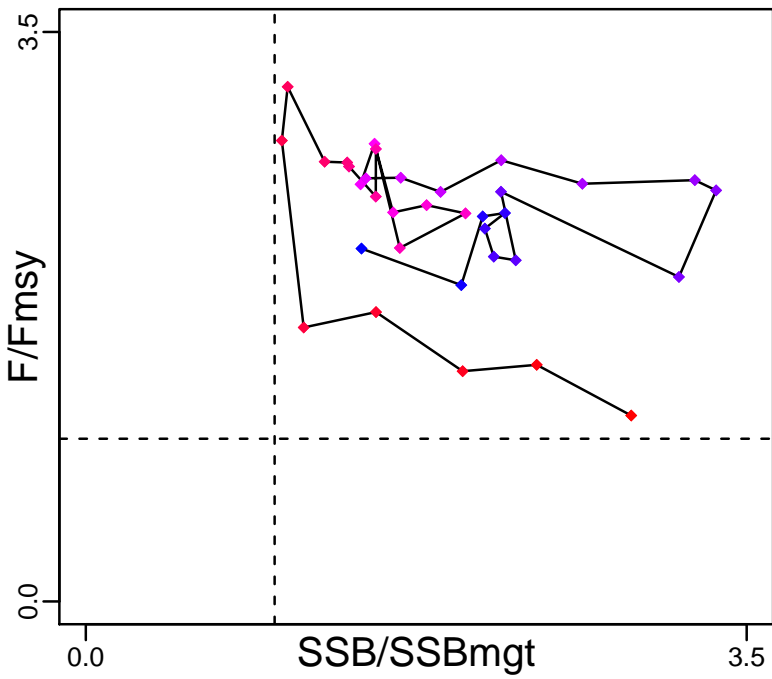
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGCSE-PLAICECHW-1978-2016-ICESIMP2016
<b>Area</b>	Western English Channel
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in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

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

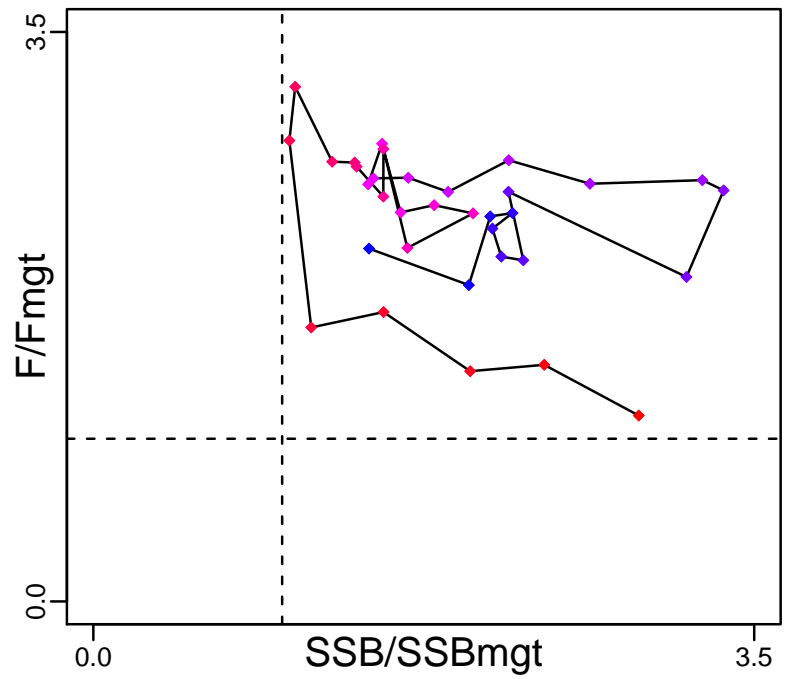
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	6730	Both	-
<b>SSB</b>	SSB-relative	2016	2.04	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-relative	2016	0.9	-	2
<b>F</b>	F-relative	2016	0.347	-	3 to 6
<b>ER</b>	ER-calc-ratio	2014	0.227	-	-
<b>TC</b>	TC-MT	2016	2940		
<b>TL</b>	TL-MT	2016	1420		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	1.143		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2014	3.353		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.143		
<b>ER/ERmgt</b>	-	-	-		

# European Plaice ICES Vlle [PLAICECHW]

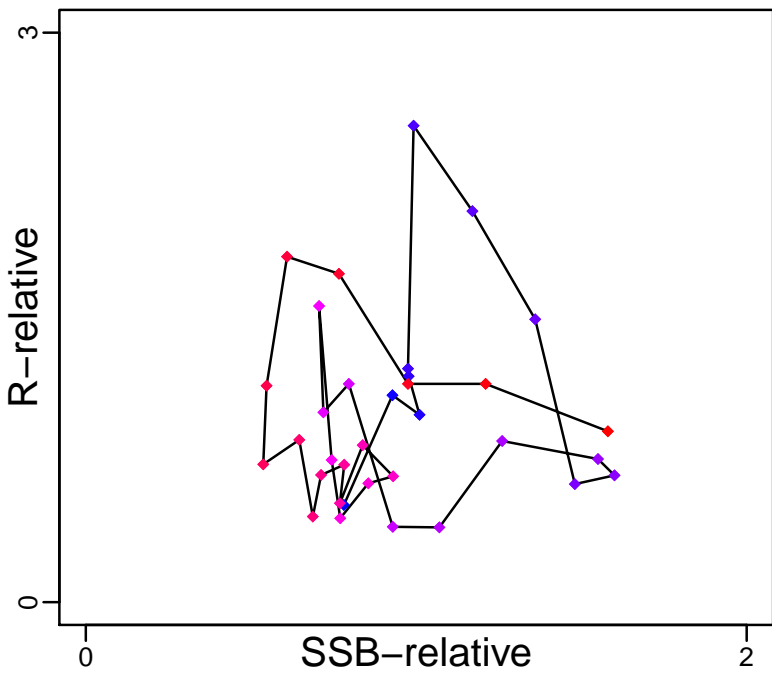
Kobe MSYpref (1979–2014–ICESIMP2016)



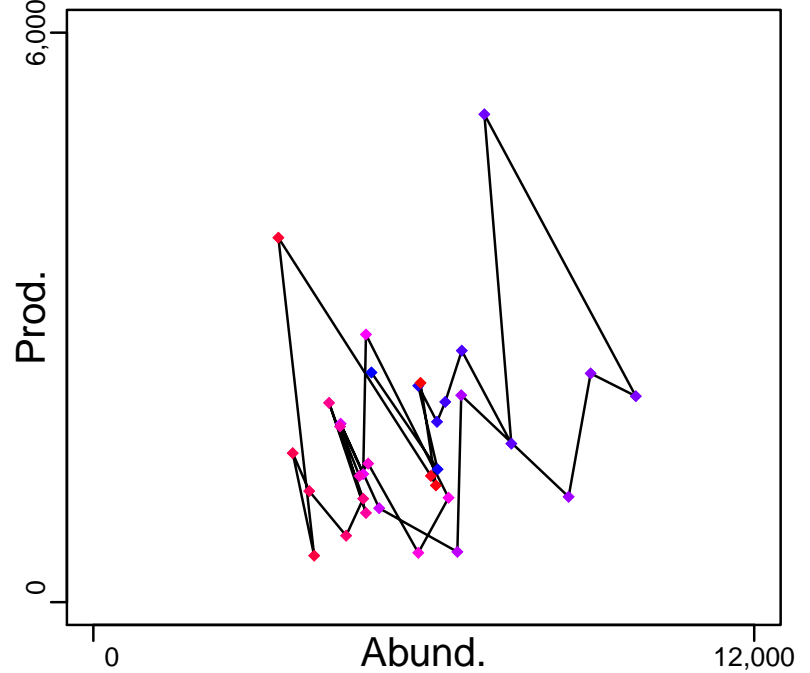
Kobe MGTpref (1979–2014–ICESIMP2016)



Spawner Recruit (1978–2016–ICESIMP2016)



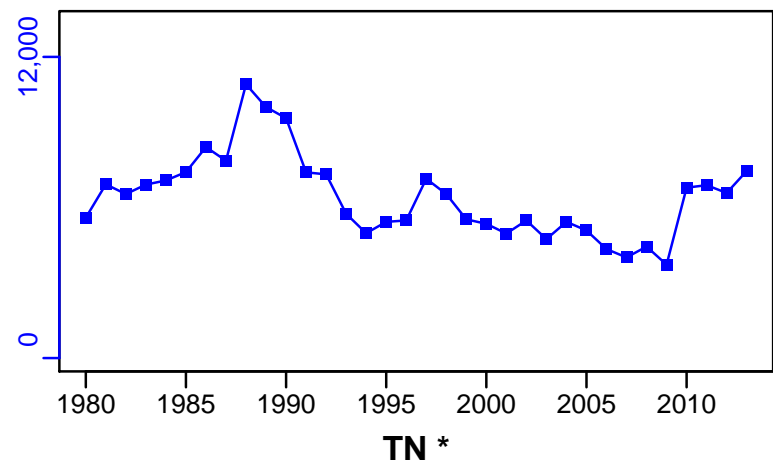
Production (1979–2014–ICESIMP2016)



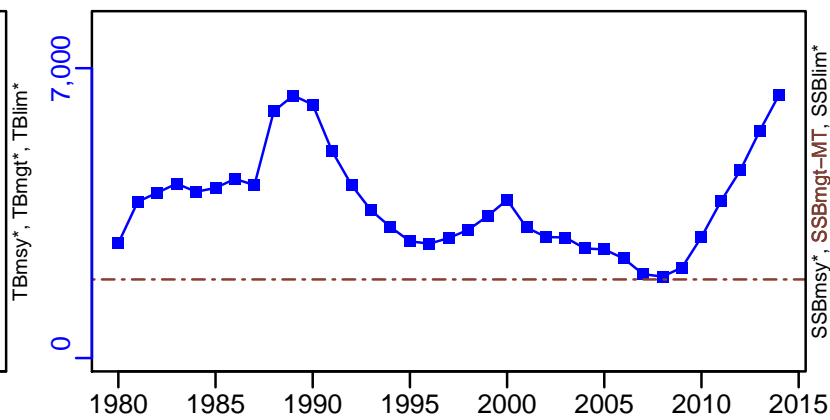
◆ Start Year ◆ End Year \* No Data

# European Plaice ICES Vlle [PLAICECHW]

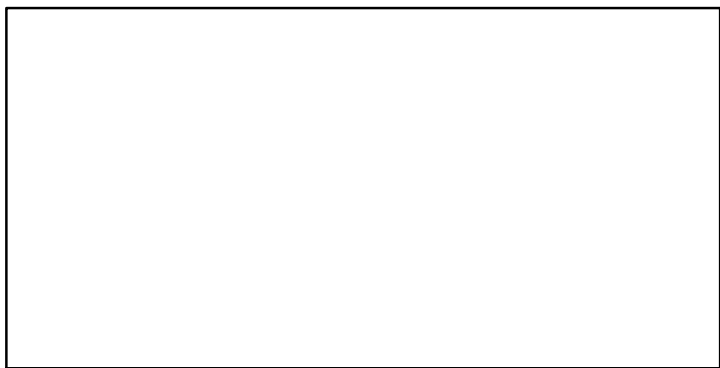
TB-MT (1979–2014–ICESIMP2016)



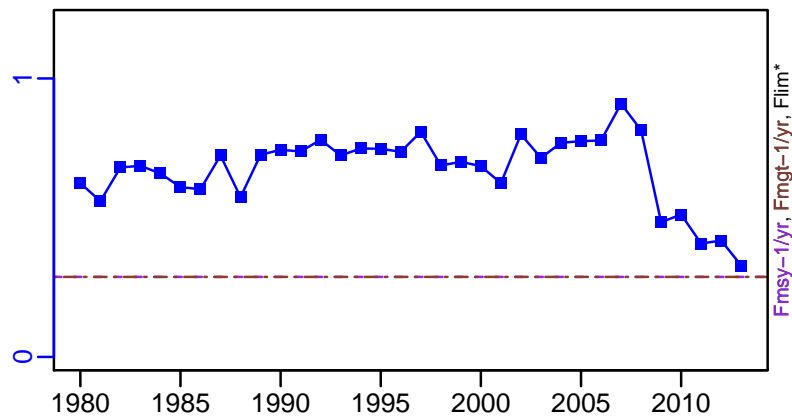
SSB-MT (1979–2014–ICESIMP2016)



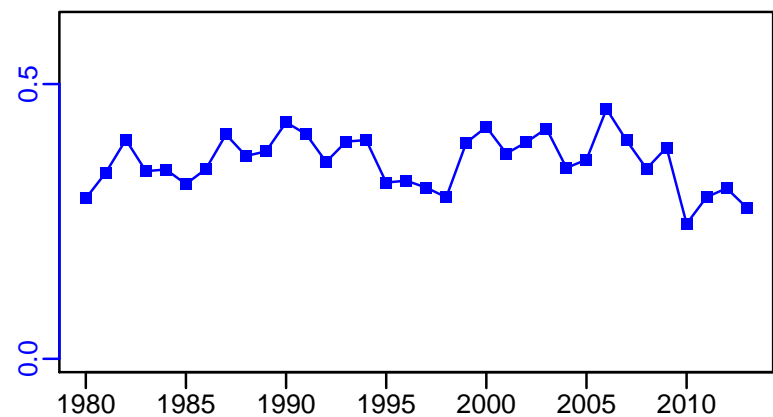
TN \*



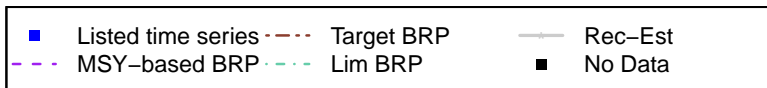
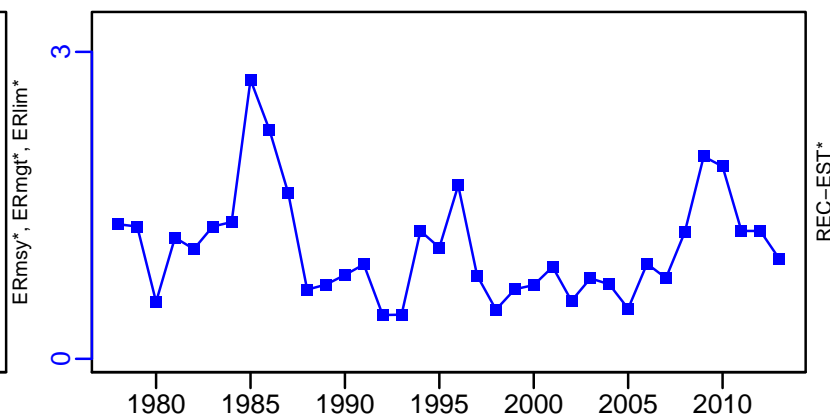
F-1/yr (1979–2014–ICESIMP2016)



ER-calc-ratio (1979–2014–ICESIMP2016)



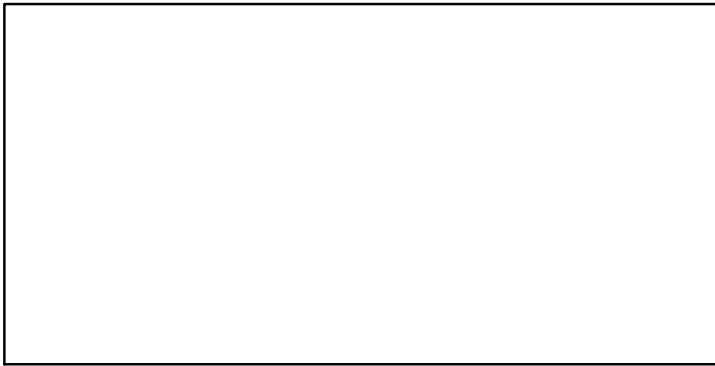
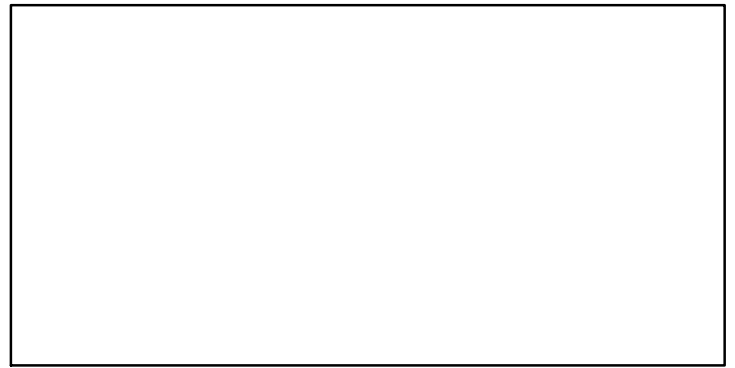
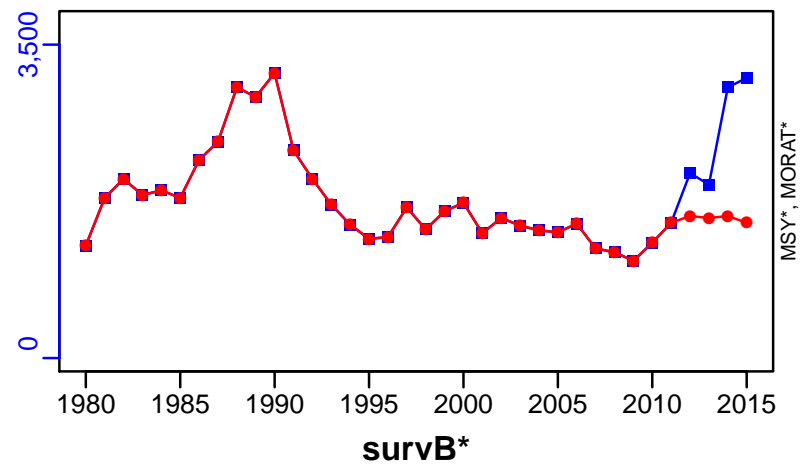
R-relative (1978–2016–ICESIMP2016)



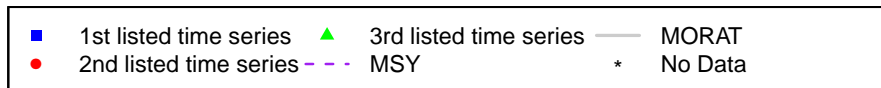
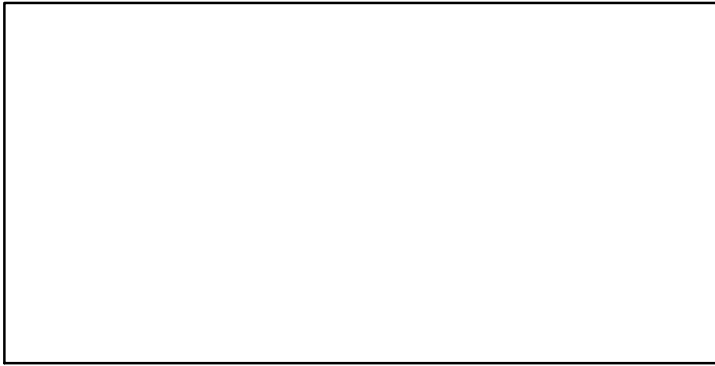
# European Plaice ICES Vlle [PLAICECHW]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*

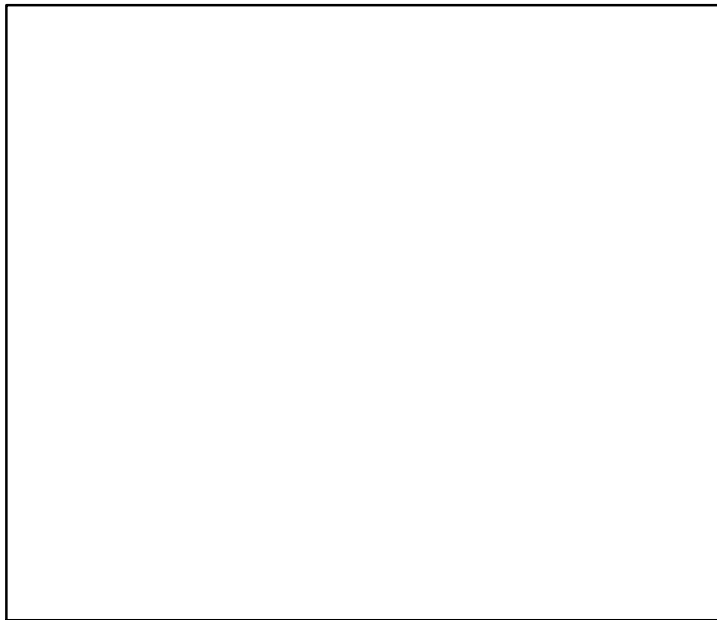


## European Plaice Irish Sea [PLAICIS]

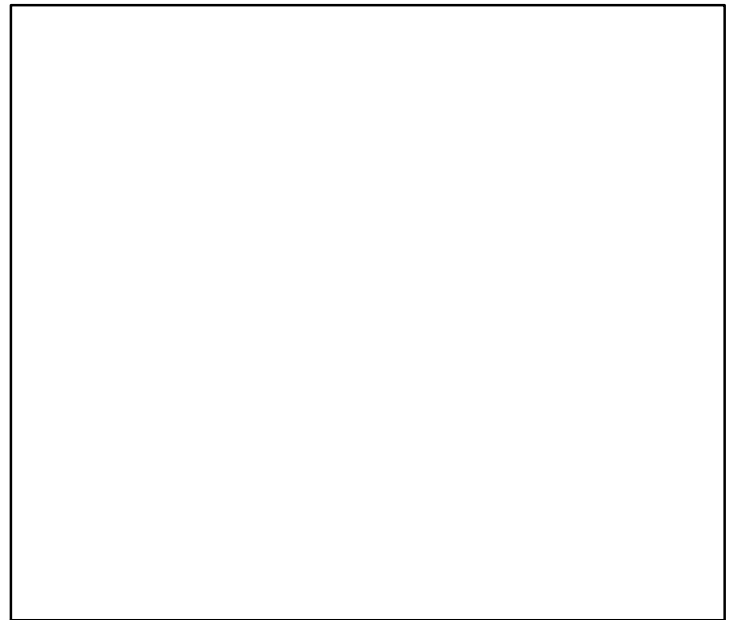
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGCSE-PLAICIS-1964-2016-ICESIMP2016
<b>Area</b>	Irish Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.12
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-relative	2016	2.21	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-relative	2016	0.607	-	1
<b>F</b>	F-relative	2016	0.273	-	3 to 6
<b>ER</b>	ER-ratio	2010	0.052	-	-
<b>TC</b>	TC-MT	2016	1010		
<b>TL</b>	TL-MT	2016	439		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

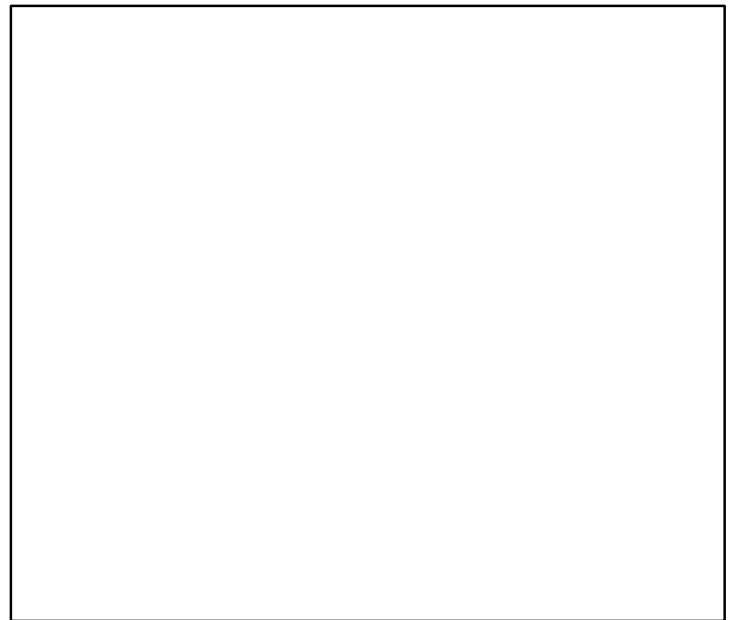
**Kobe MSY\***

**Kobe MGT\***



A scatter plot showing the relationship between SSB-relative (x-axis) and R-relative (y-axis) for 12 species. The x-axis ranges from 0.0 to 1.4, and the y-axis ranges from 0.0 to 1.5. The data points are connected by lines, forming a complex, non-linear pattern. The points are colored in a sequence: blue, purple, magenta, pink, red, and orange.

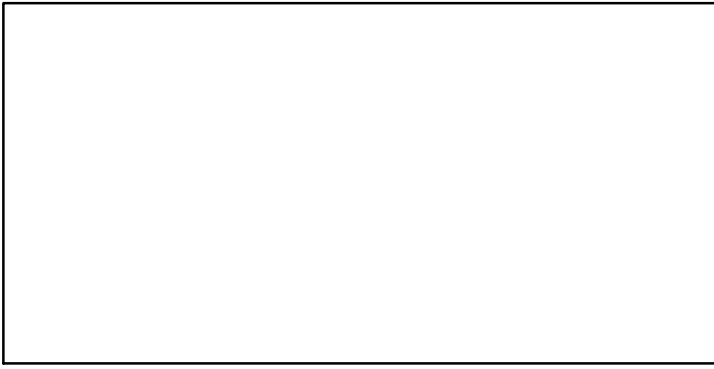
Species	SSB-relative	R-relative
1	0.75	0.85
2	0.75	0.80
3	0.78	0.88
4	0.78	0.82
5	0.82	0.80
6	0.85	0.85
7	0.85	0.82
8	0.90	0.85
9	0.90	0.80
10	0.95	0.85
11	0.95	0.82
12	0.98	0.85

**Production\***

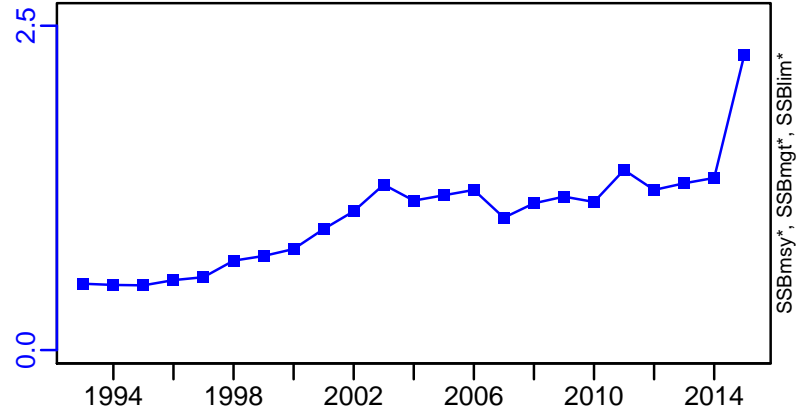
374

# European Plaice Irish Sea [PLAICIS]

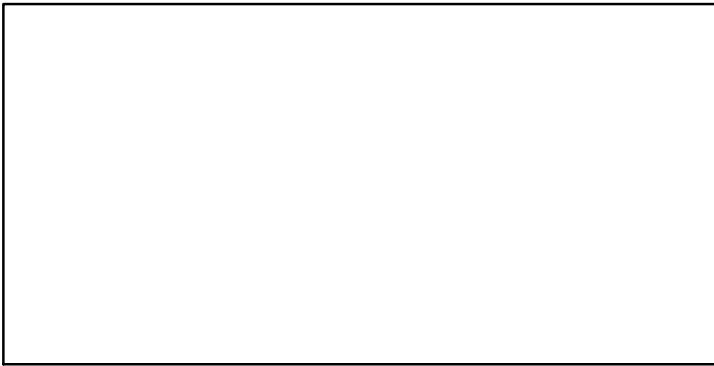
TB\*



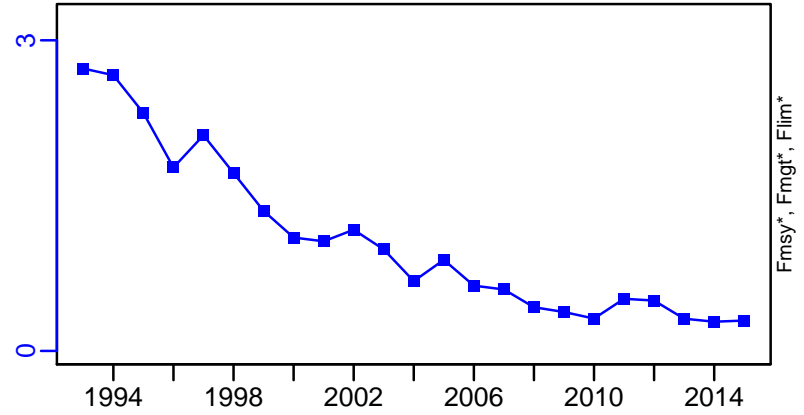
SSB-relative (1964–2016–ICESIMP2016)



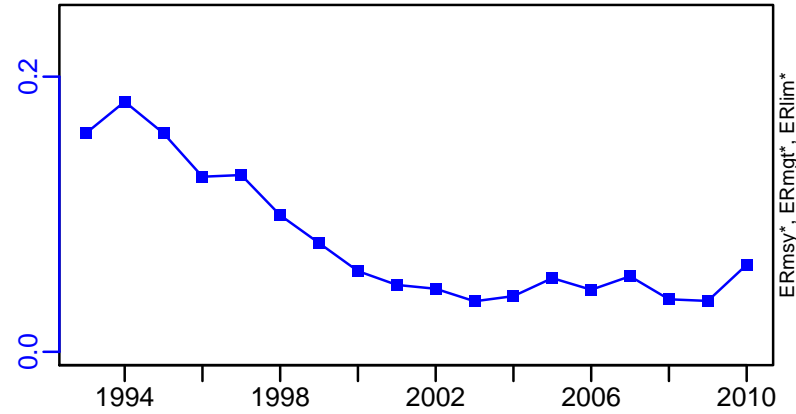
TN \*



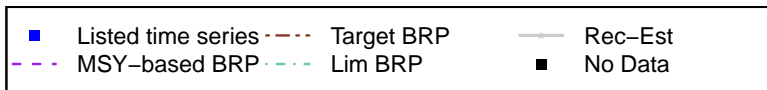
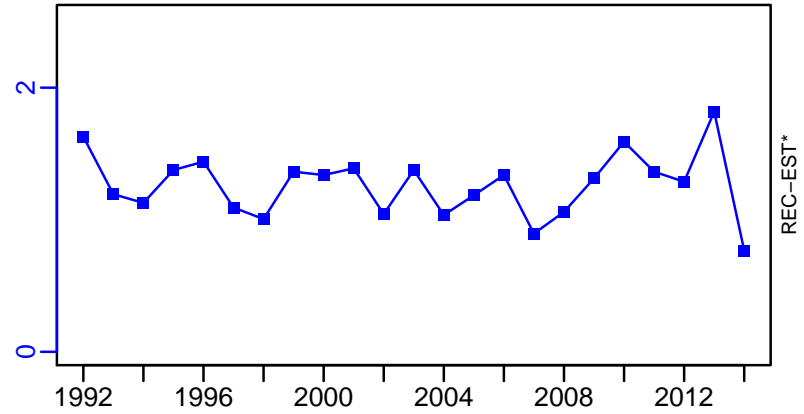
F-relative (1964–2016–ICESIMP2016)



ER-ratio (1992–2010–NEUBAUER)

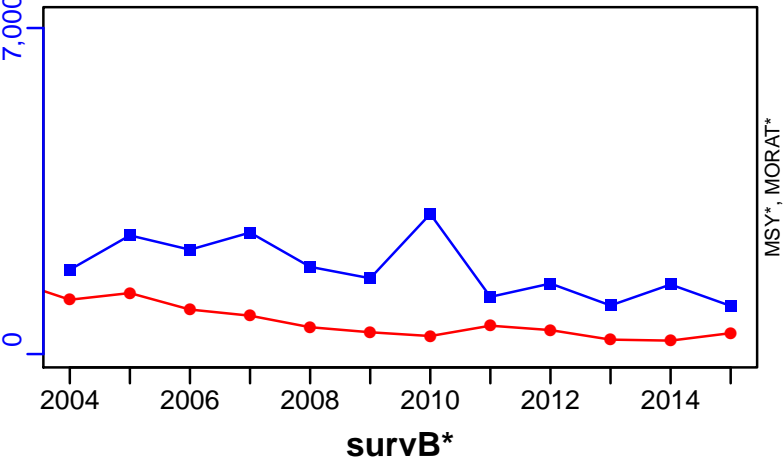


R-relative (1964–2016–ICESIMP2016)

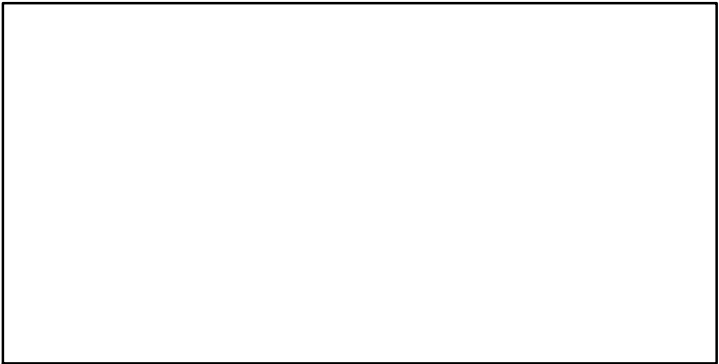


European Plaice Irish Sea [PLAICIS]

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



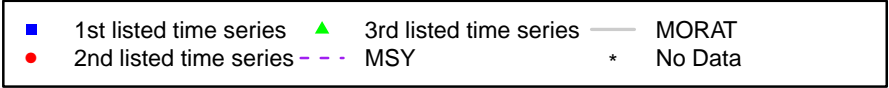
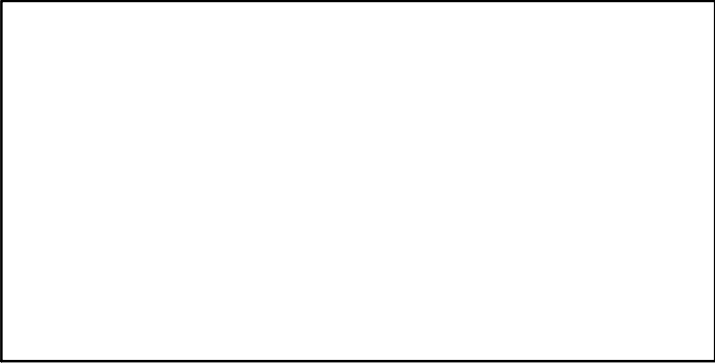
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## European Plaice North Sea [PLAICNS]

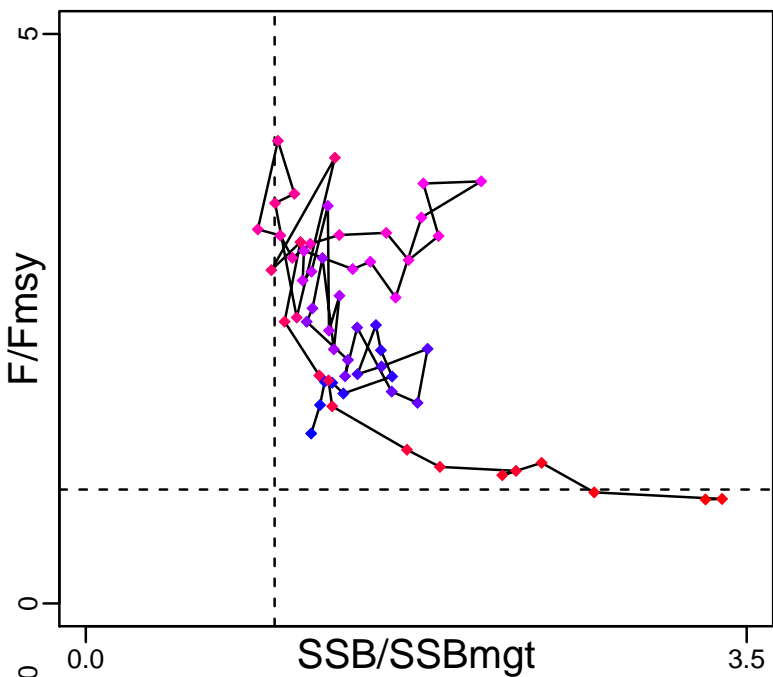
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGNSSK-PLAICNS-1956-2016-ICESIMP2016
<b>Area</b>	North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.19
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	230,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.1
<b>TBlim</b>	TBlim-MT	2010	160,000
<b>SSBlim</b>	SSBlim-MT	2016	160,000
<b>Flim</b>	Flim-1/yr	2016	0.63
<b>ERlim</b>	-	-	-

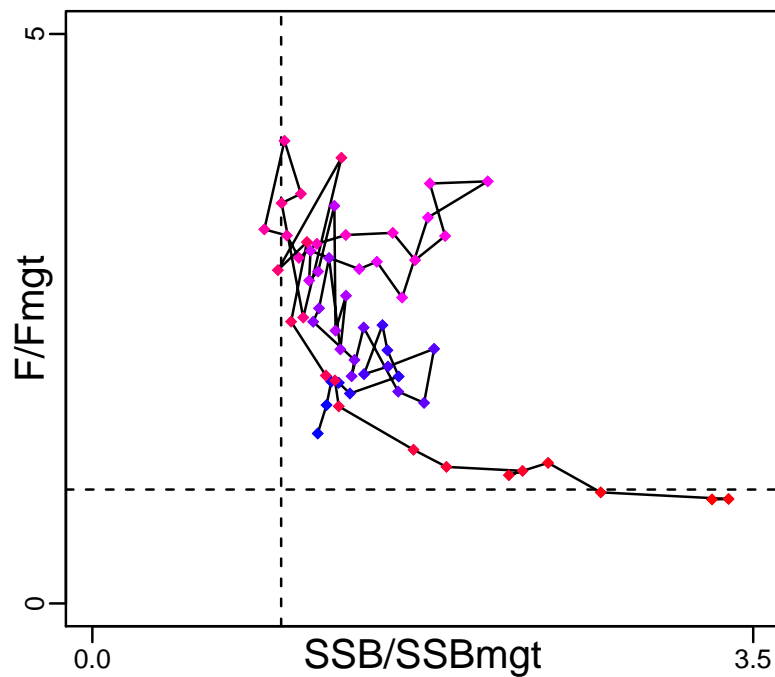
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	698,000	Both	-
<b>SSB</b>	SSB-MT	2016	946,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$9.08 \times 10^8$	-	1
<b>F</b>	F-1/yr	2016	0.174	-	2 to 6
<b>ER</b>	ER-calc-ratio	2013	0.191	-	-
<b>TC</b>	TC-MT	2016	134,000		
<b>TL</b>	TL-MT	2016	85,400		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.913		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	4.112		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.913		
<b>ER/ERmgt</b>	-	-	-		

# European Plaice North Sea [PLAICNS]

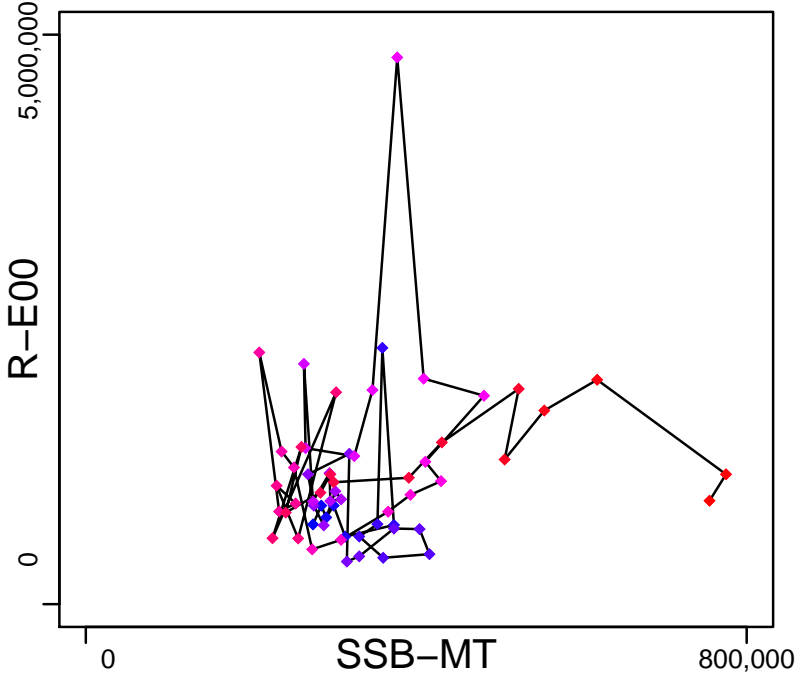
Kobe MSYpref (1956–2016–ICESIMP2016)



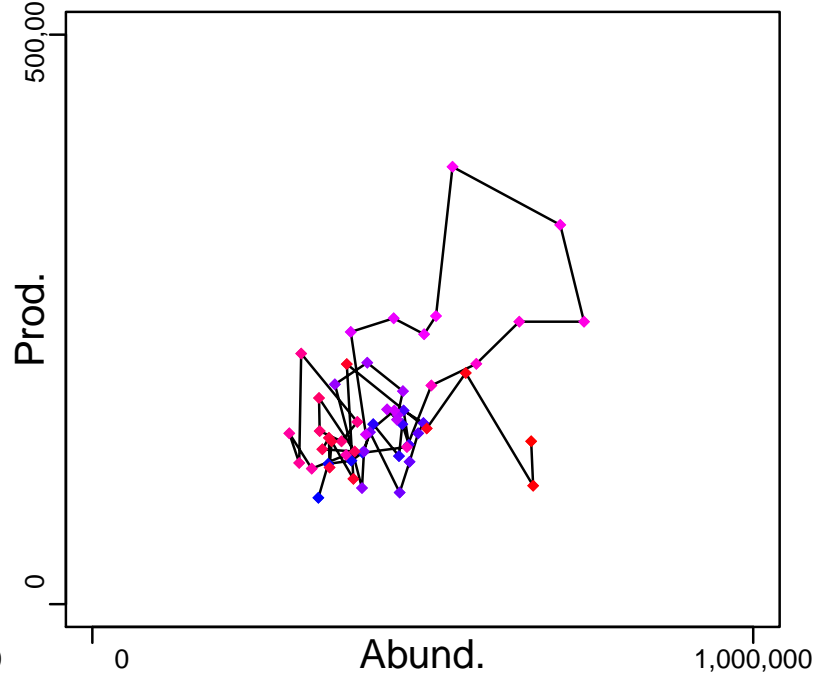
Kobe MGTpref (1956–2016–ICESIMP2016)



Spawner Recruit (1956–2016–ICESIMP2016)



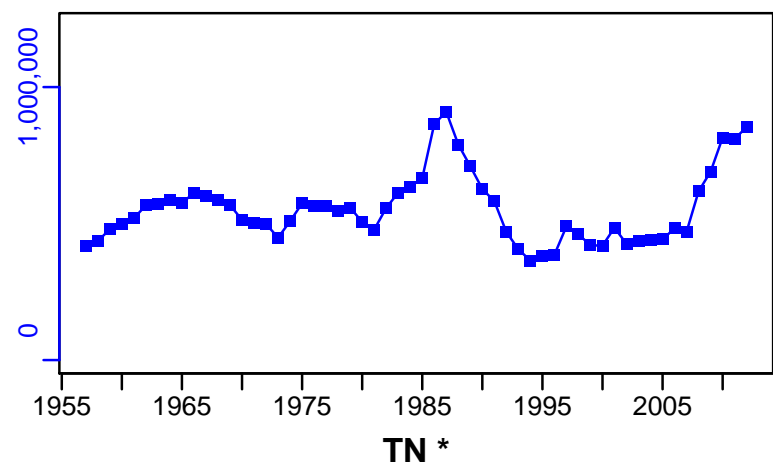
Production (1956–2013–ICESIMP2016)



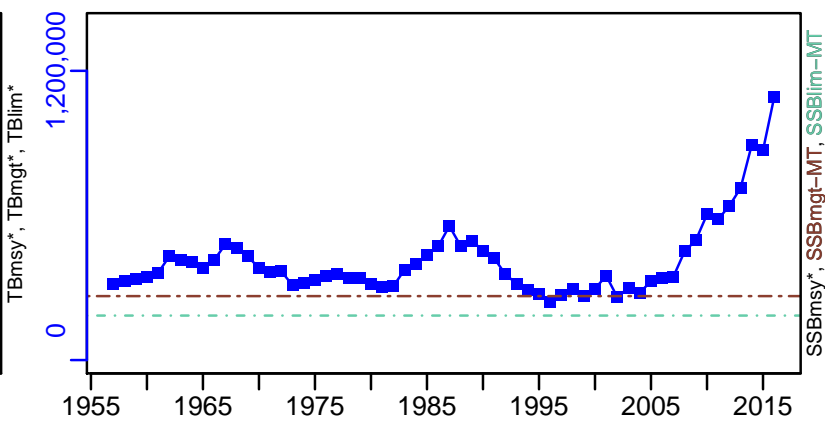
◆ Start Year ◆ End Year \* No Data

# European Plaice North Sea [PLAICNS]

TB-MT (1956–2013–ICESIMP2016)



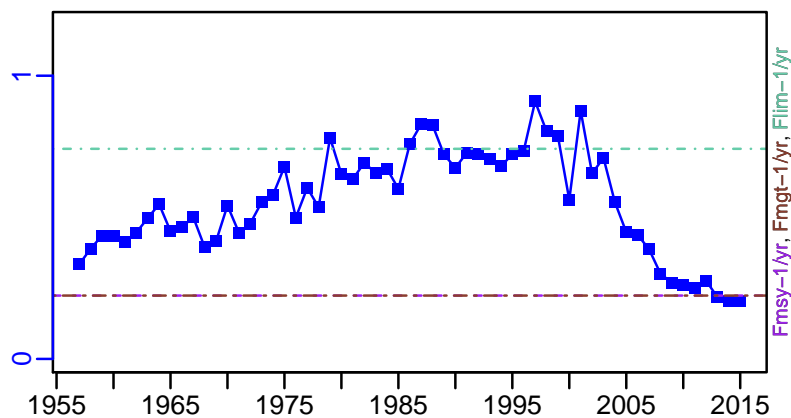
SSB-MT (1956–2016–ICESIMP2016)



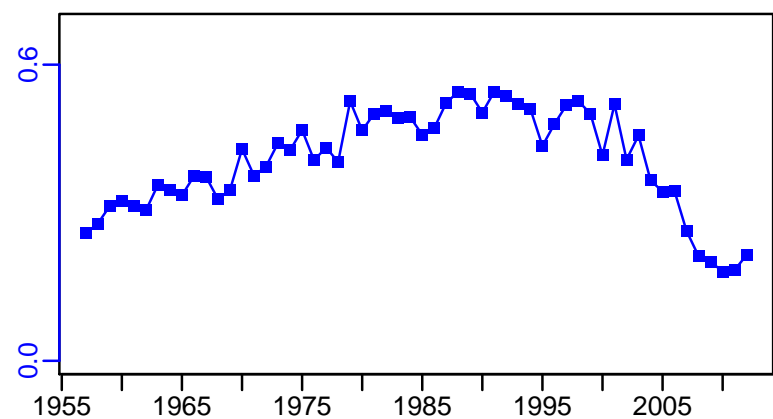
TN \*



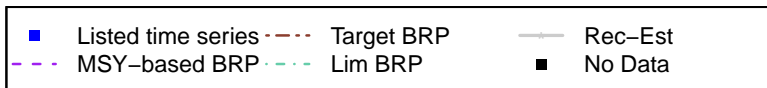
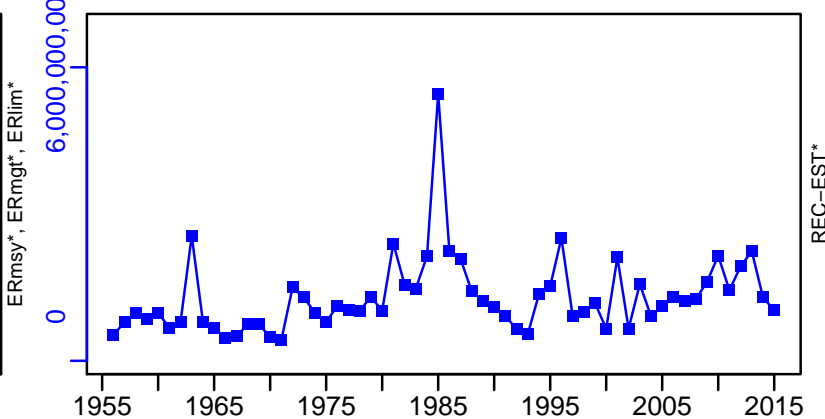
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2013–ICESIMP2016)

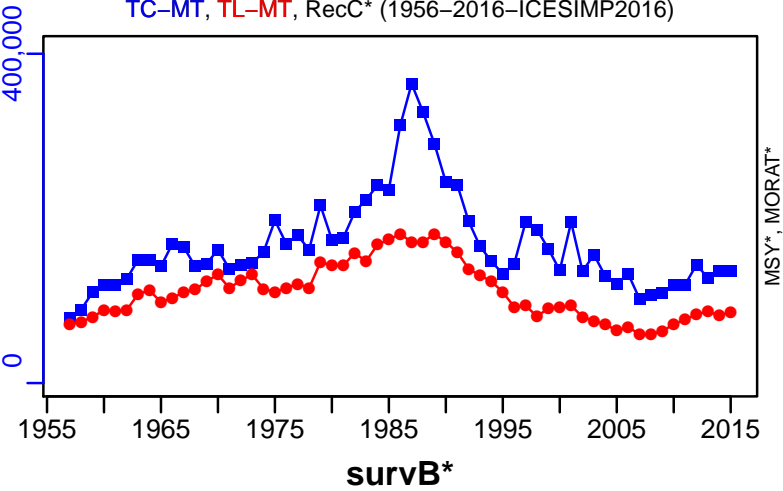


R-E00 (1956–2016–ICESIMP2016)



European Plaice North Sea [PLAICNS]

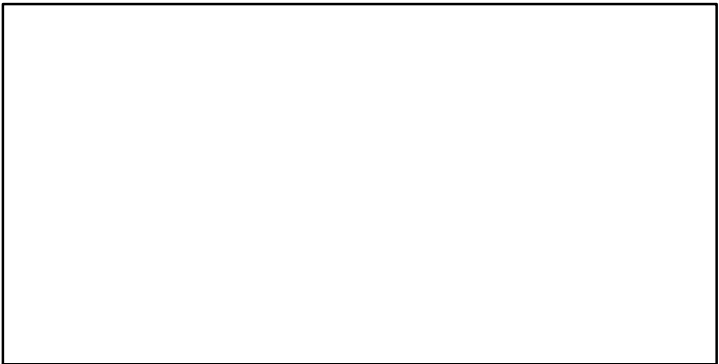
TC-MT, TL-MT, RecC\* (1956–2016–ICESIMP2016)



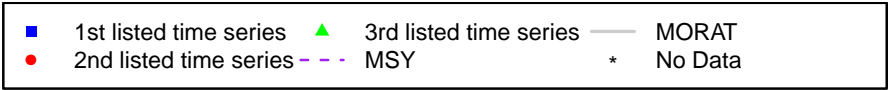
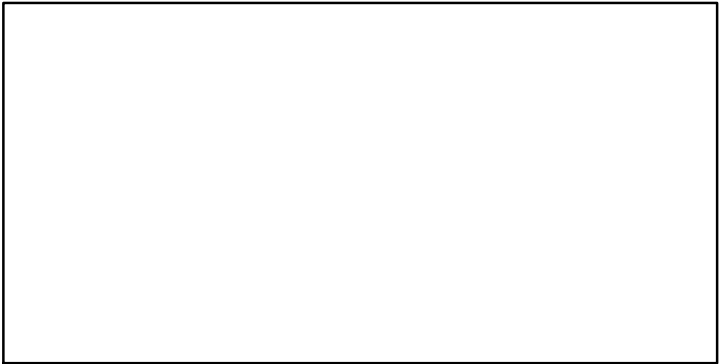
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## European Plaice VIIbc [PLAICVIIbc]

Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGCSE-PLAICVIIbc-1996-2015-ICESIMP2016
<b>Area</b>	VIIbc
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

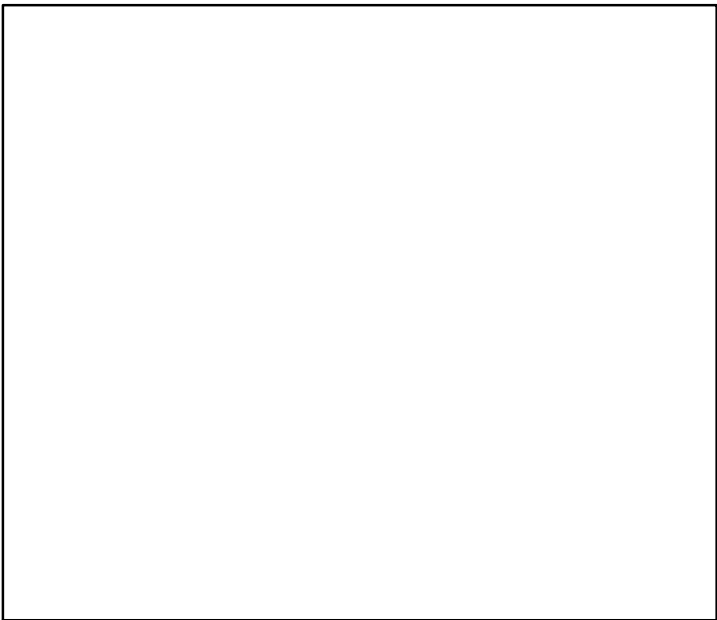
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

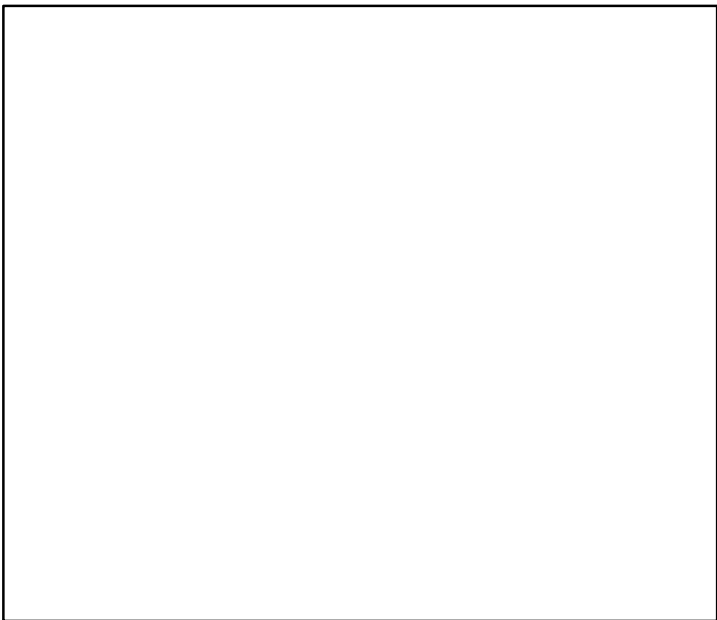
Kobe MSY\*



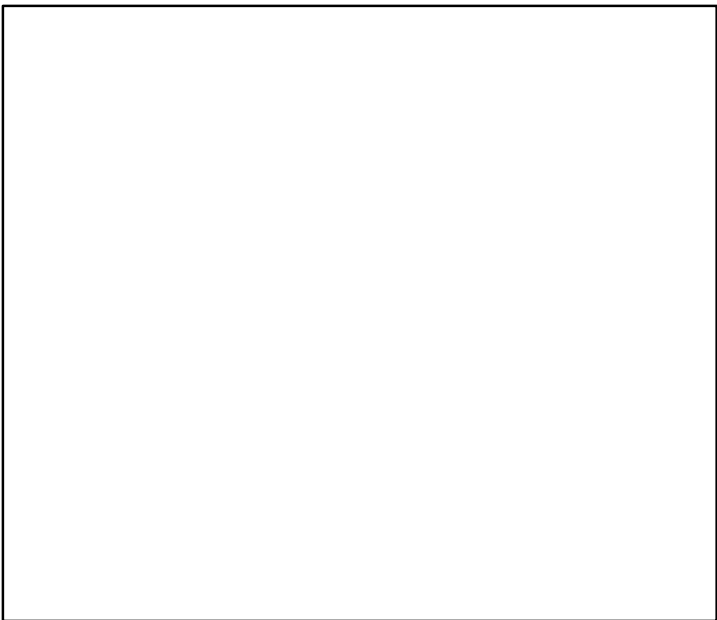
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*

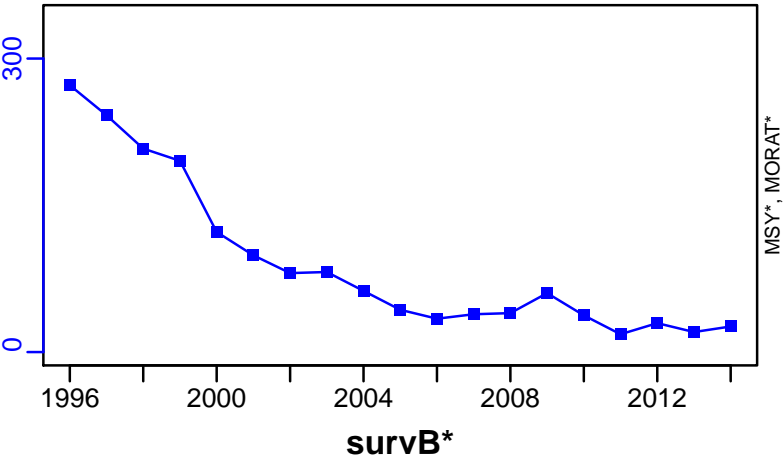


Recruits\*



European Plaice VIIbc [PLAICVIIbc]

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



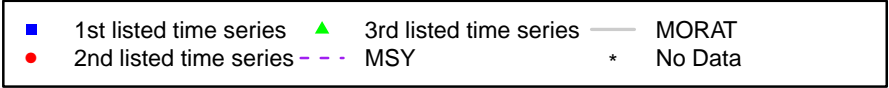
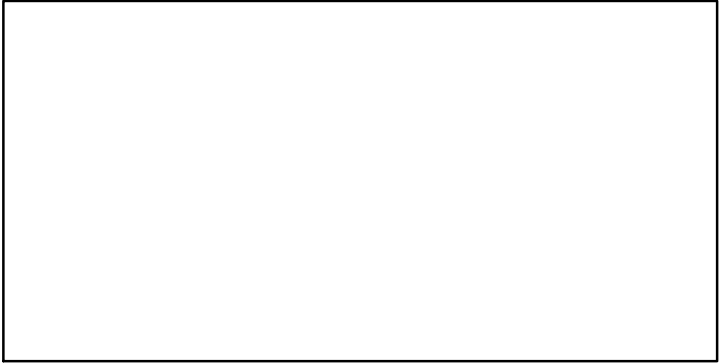
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



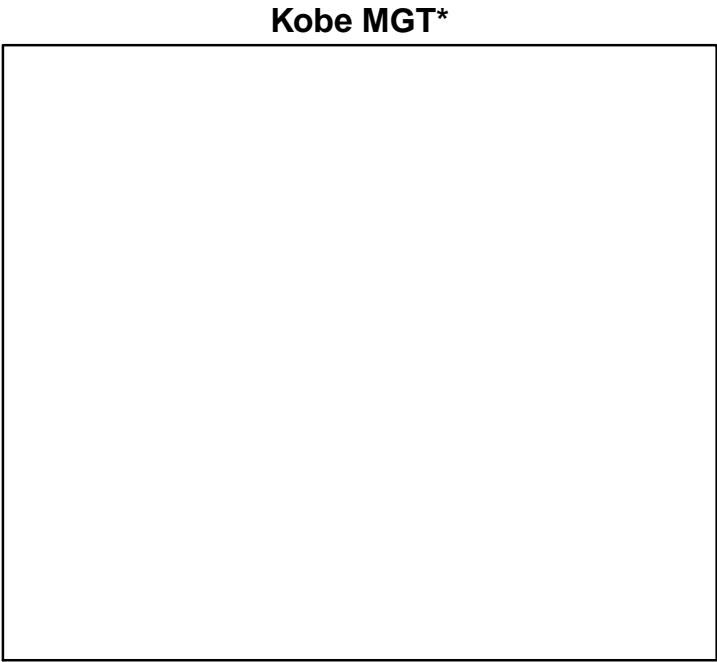
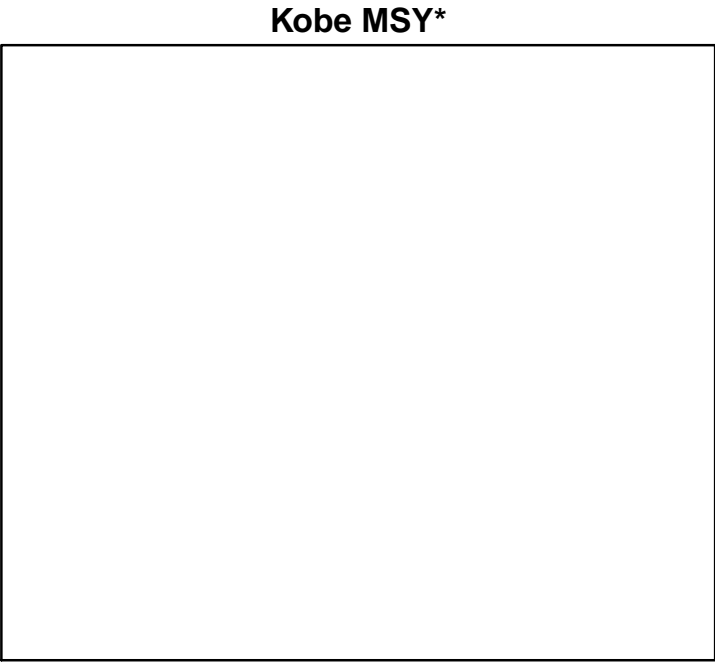


## European Plaice VIIh-k [PLAICVIIh-k]

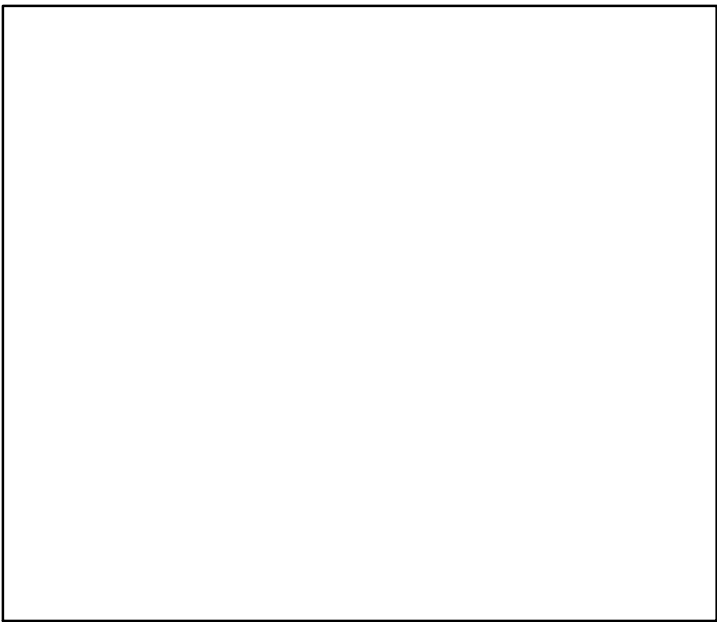
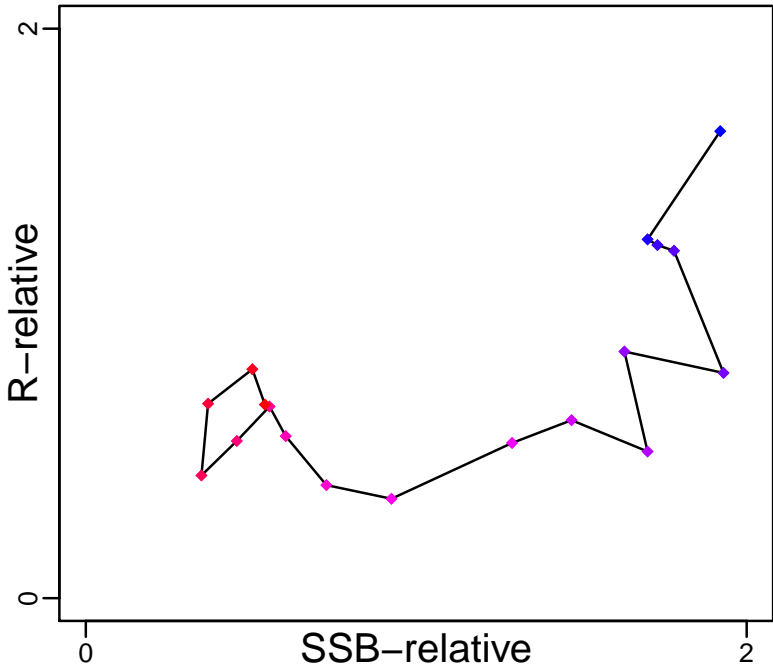
Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGCSE-PLAICVIIh-k-1989-2015-ICESIMP2016
<b>Area</b>	VIIh-k
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2014, 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	SSB-relative	2015	0.575	Both	-
TN	-	-	-	-	-
R	R-relative	2015	0.68	-	4
F	F-relative	2015	1.06	-	4 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	148		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



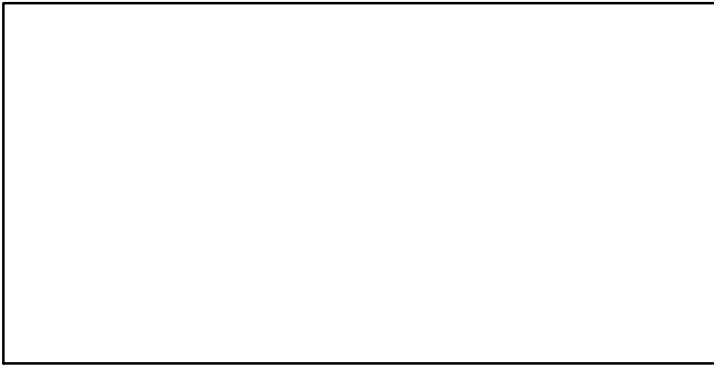
Spawner Recruit (1989–2015–ICESIMP2016)



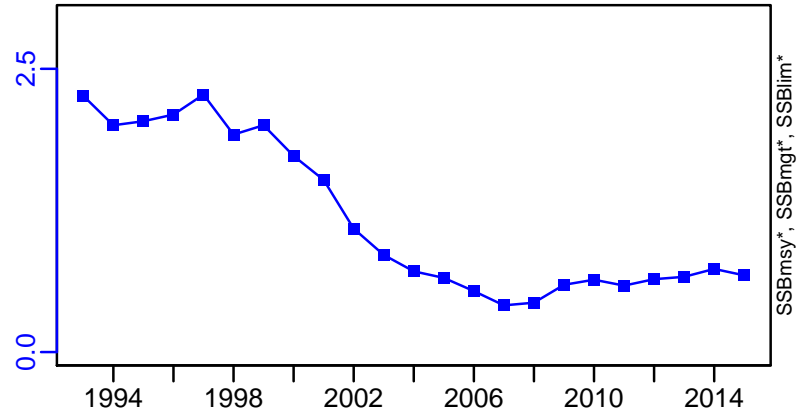
◆ Start Year ◆ End Year \* No Data

# European Plaice VIIh-k [PLAICVIIh-k]

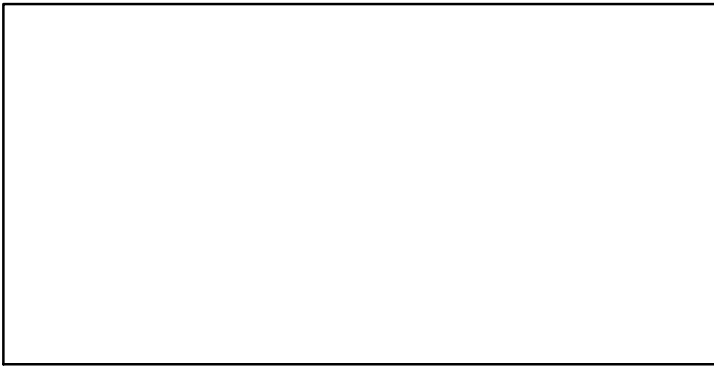
TB\*



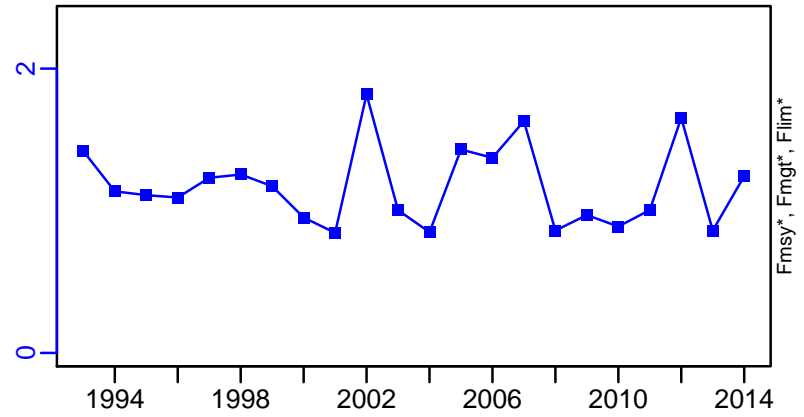
SSB-relative (1989-2015-ICESIMP2016)



TN \*



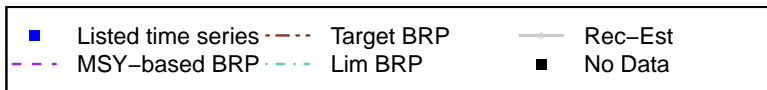
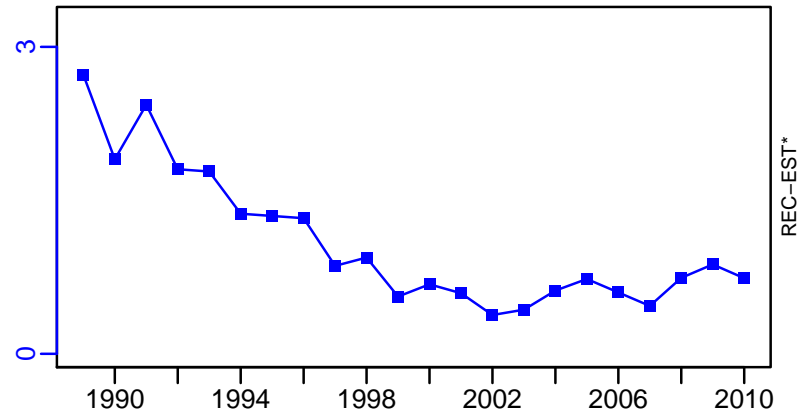
F-relative (1989-2015-ICESIMP2016)



ER\*



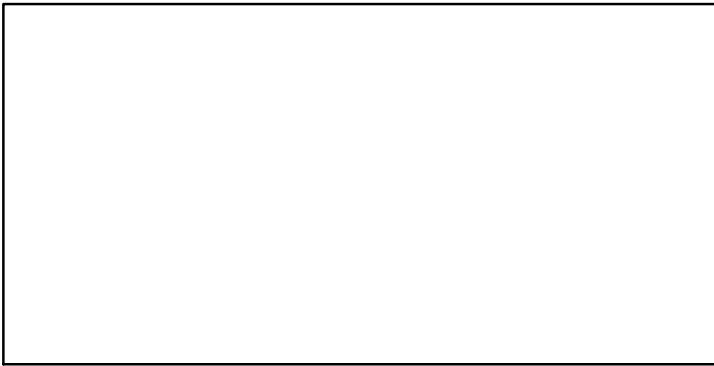
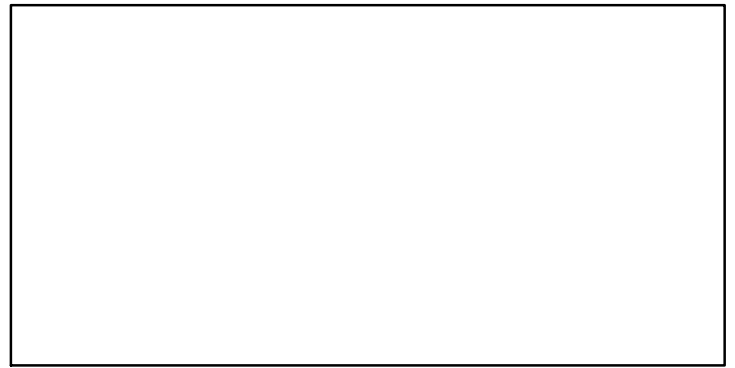
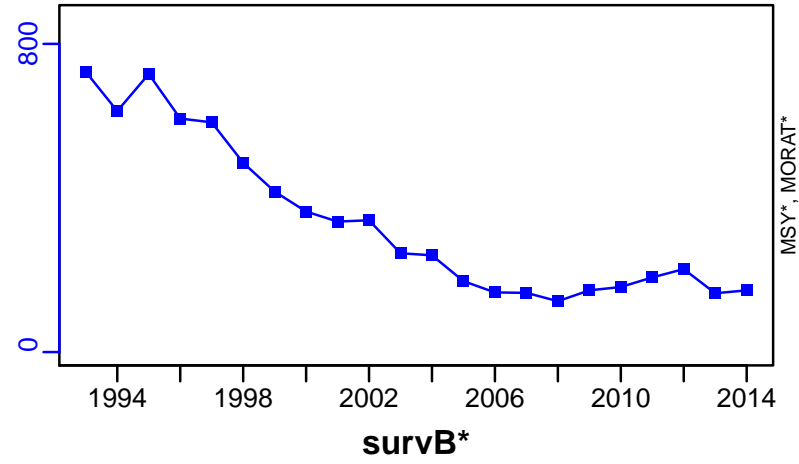
R-relative (1989-2015-ICESIMP2016)



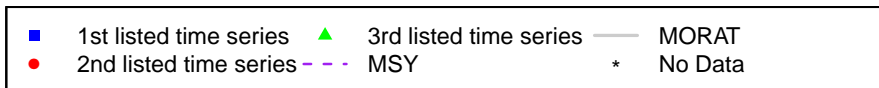
European Plaice VIIh-k [PLAICVIIh-k]

TL-MT, TC\*, RecC\* (1989-2015-ICESIMP2016)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## European Plaice VIII and IXa [PLAICVIII-IXa]

Metadata	
<b>Scientific Name</b>	Pleuronectes platessa
<b>Current Assess ID</b>	WGBIE-PLAICVIII-IXa-1994-2015-ICESIMP2016
<b>Area</b>	VIII and IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2015

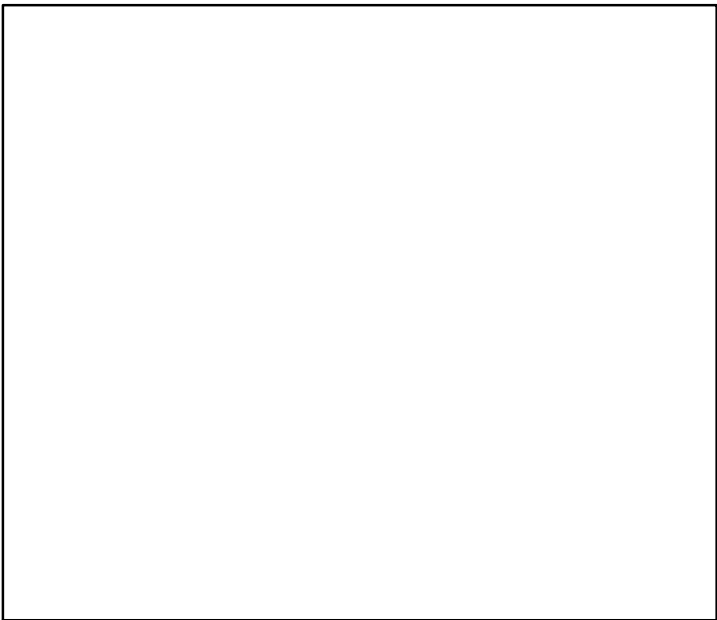
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	220		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

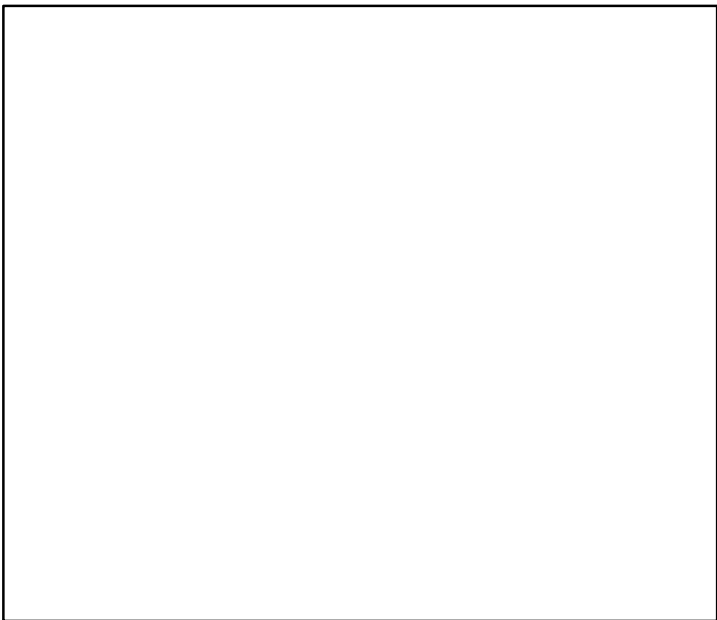
Kobe MSY\*



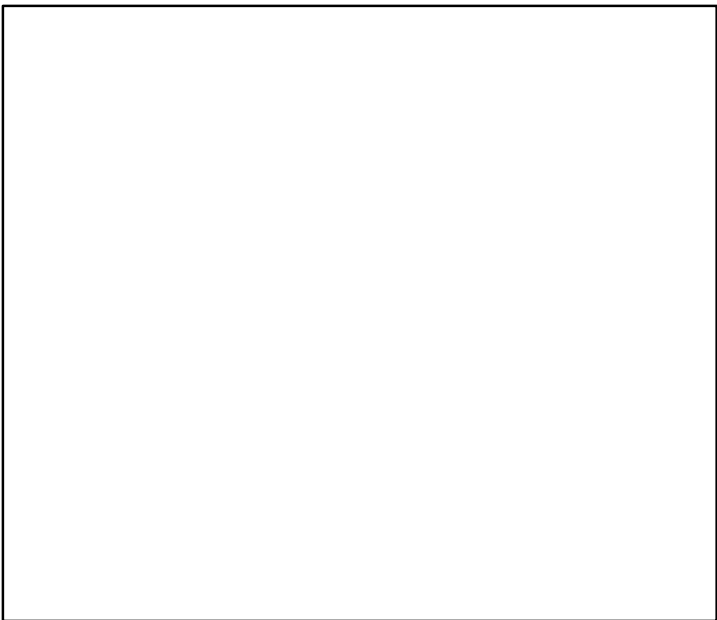
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

European Plaice VIII and IXa [PLAICVIII–IXa]

TB\*



SSB\*



TN \*



F\*



ER\*

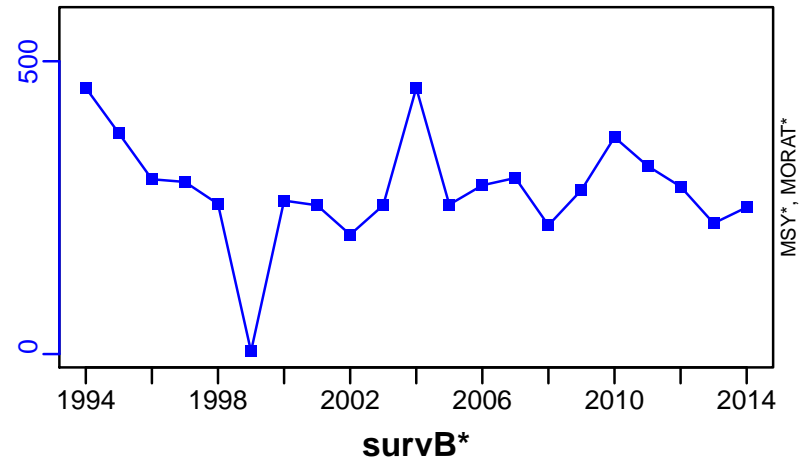


Recruits\*



European Plaice VIII and IXa [PLAICVIII–IXa]

TL–MT, TC\*, RecC\* (1994–2015–ICESIMP2016)



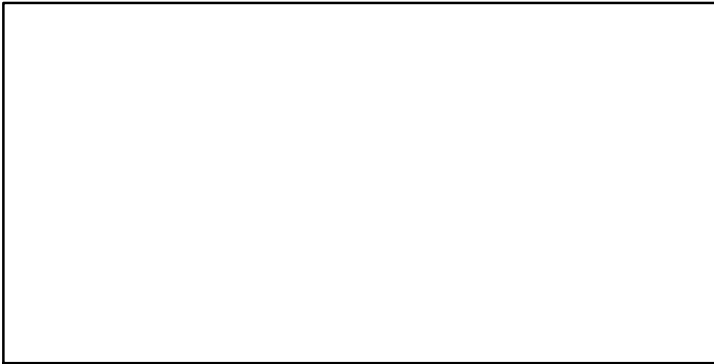
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



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

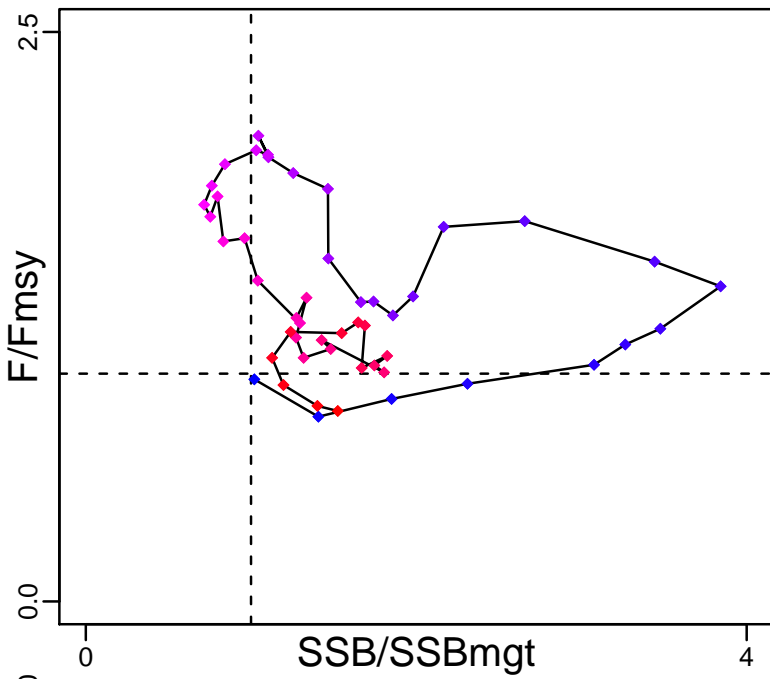
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	WGNSSK-POLLNS-VI-IIIa-1964-2016-ICESIMP2016
<b>Area</b>	IIIa, VI and North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.36
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	150,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.36
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	$2 \times 10^5$
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	107,000
<b>Flim</b>	Flim-1/yr	2016	0.564
<b>ERlim</b>	-	-	-

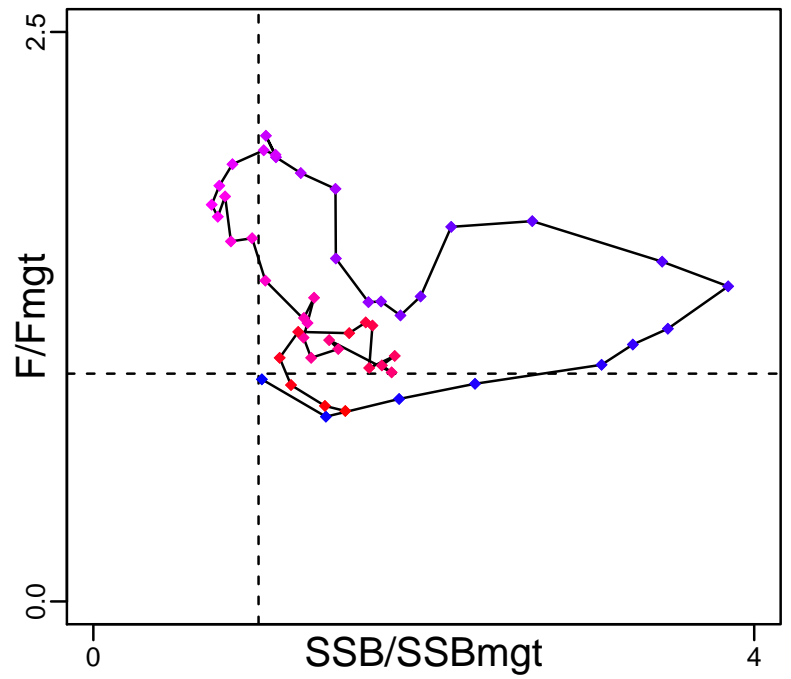
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	417,000	Both	-
<b>SSB</b>	SSB-MT	2016	240,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$1.02 \times 10^8$	-	3
<b>F</b>	F-1/yr	2016	0.301	-	4 to 7
<b>ER</b>	ER-calc-ratio	2016	0.2	-	-
<b>TC</b>	TC-MT	2016	83,300		
<b>TL</b>	TL-MT	2016	78,300		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.836		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.597		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.836		
<b>ER/ERmgt</b>	-	-	-		

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

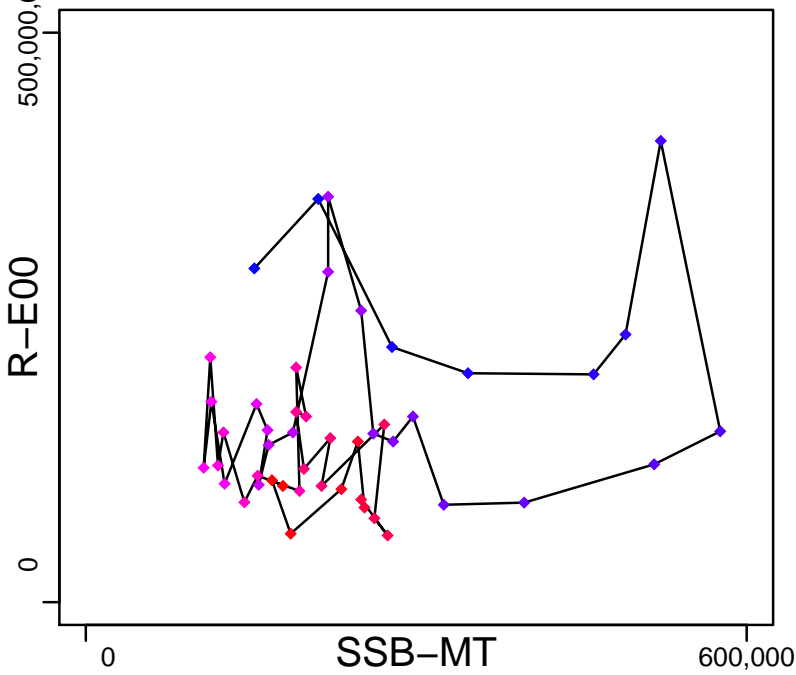
Kobe MSYpref (1964–2016–ICESIMP2016)



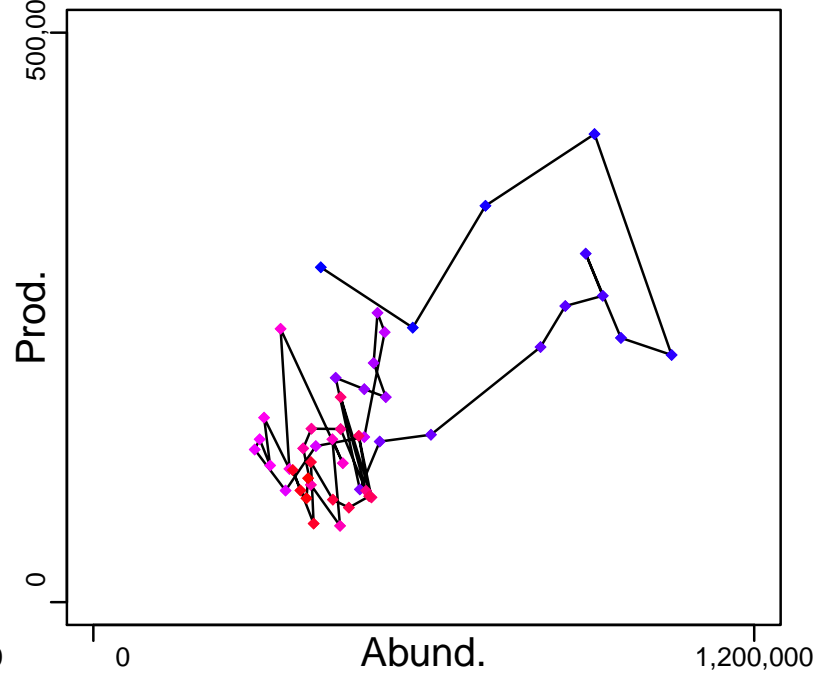
Kobe MGTpref (1964–2016–ICESIMP2016)



Spawner Recruit (1964–2016–ICESIMP2016)



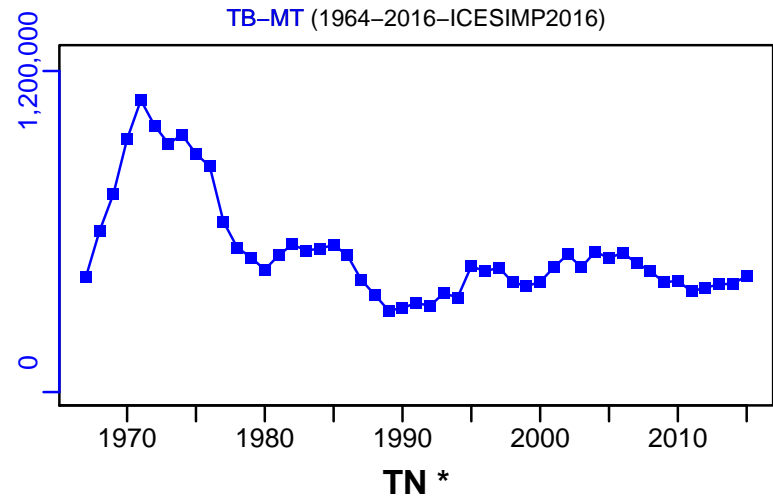
Production (1964–2016–ICESIMP2016)



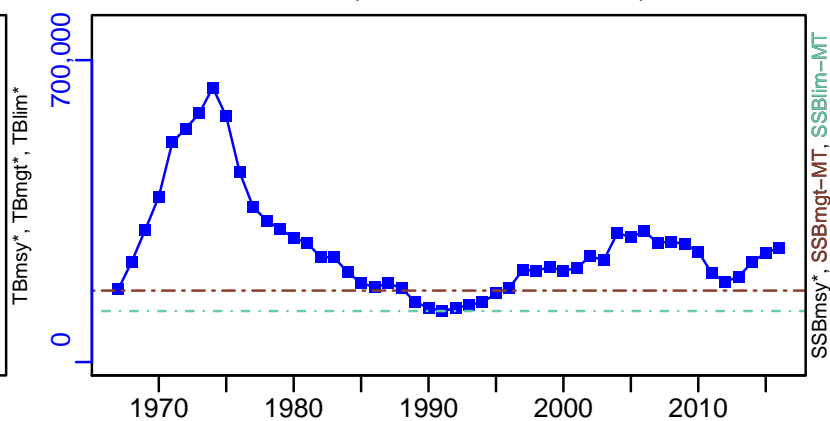
◆ Start Year ◆ End Year \* No Data

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

TB-MT (1964–2016–ICESIMP2016)



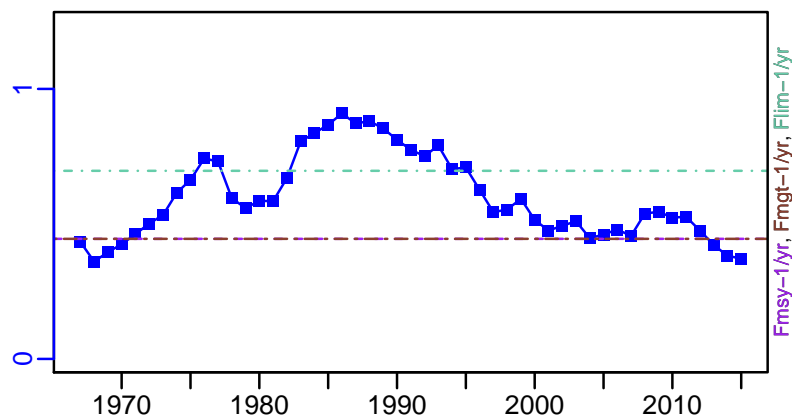
SSB-MT (1964–2016–ICESIMP2016)



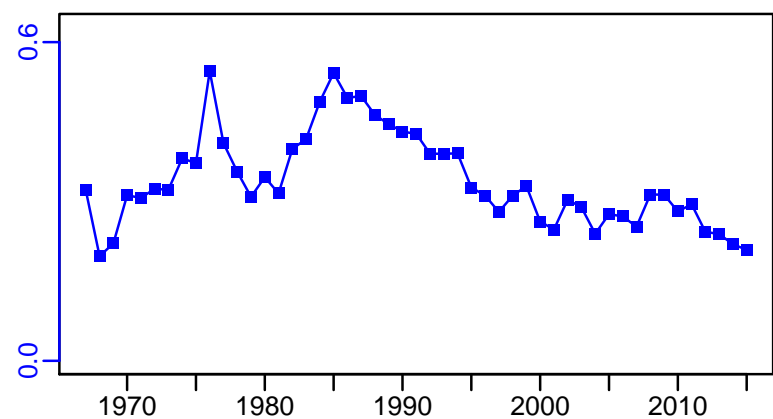
TN \*



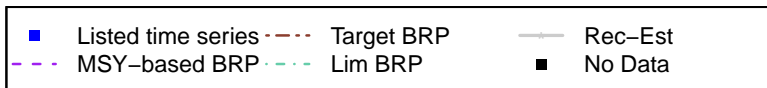
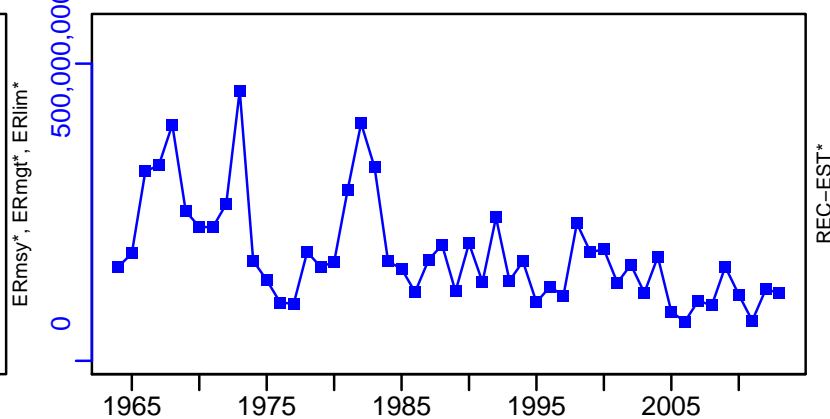
F-1/yr (1964–2016–ICESIMP2016)



ER-calc-ratio (1964–2016–ICESIMP2016)

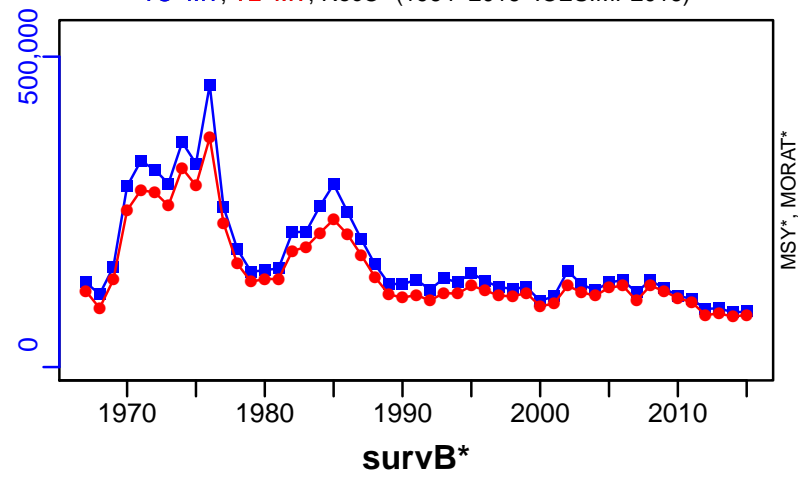


R-E00 (1964–2016–ICESIMP2016)

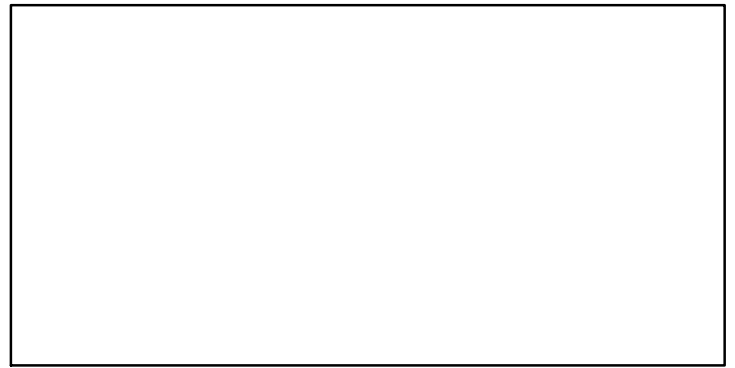


Pollock ICES IIIa, VI and North Sea [POLLNS-VI-IIIa]

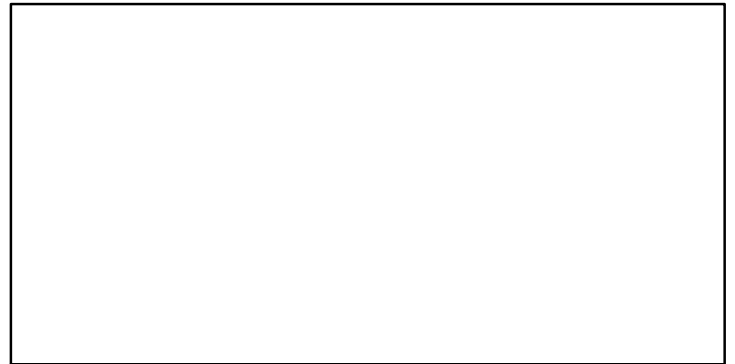
TC-MT, TL-MT, RecC\* (1964–2016–ICESIMP2016)



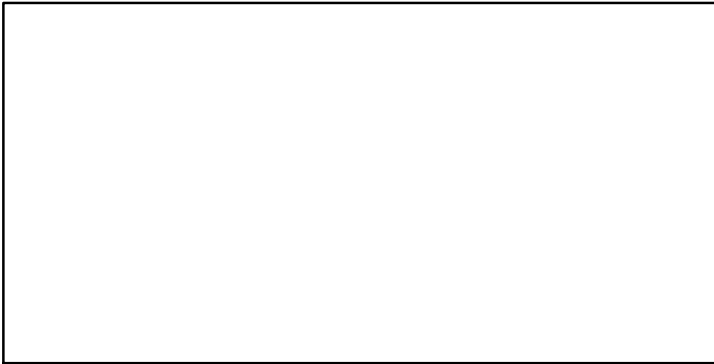
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

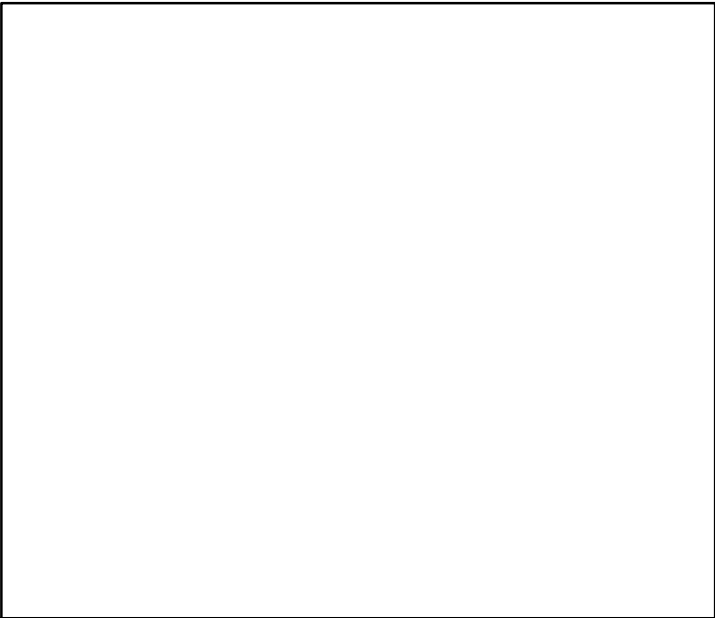
## Red seabream IX [RBRMIX]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMIX-1983-2016-ICESIMP2016
<b>Area</b>	IX
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016

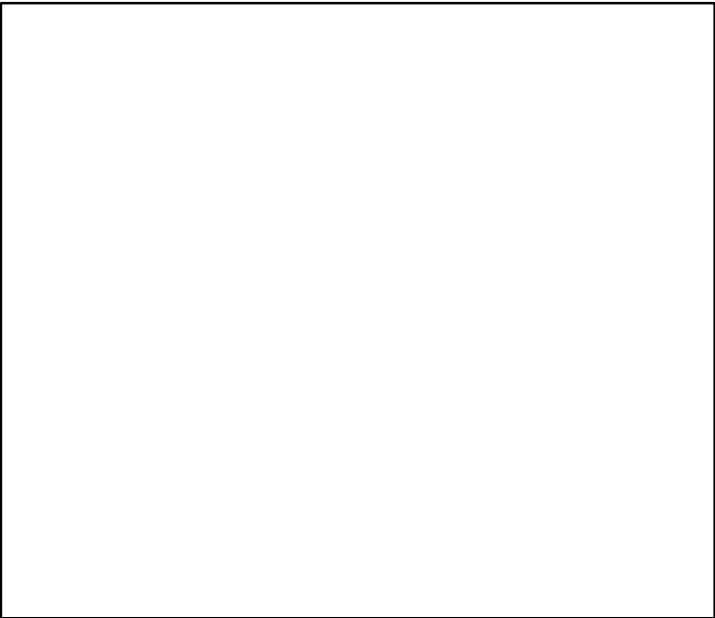
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

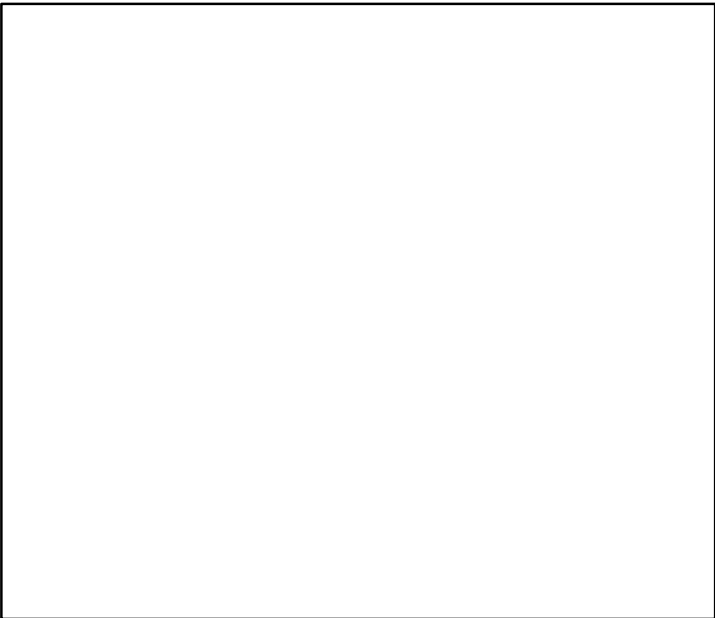
Kobe MSY\*



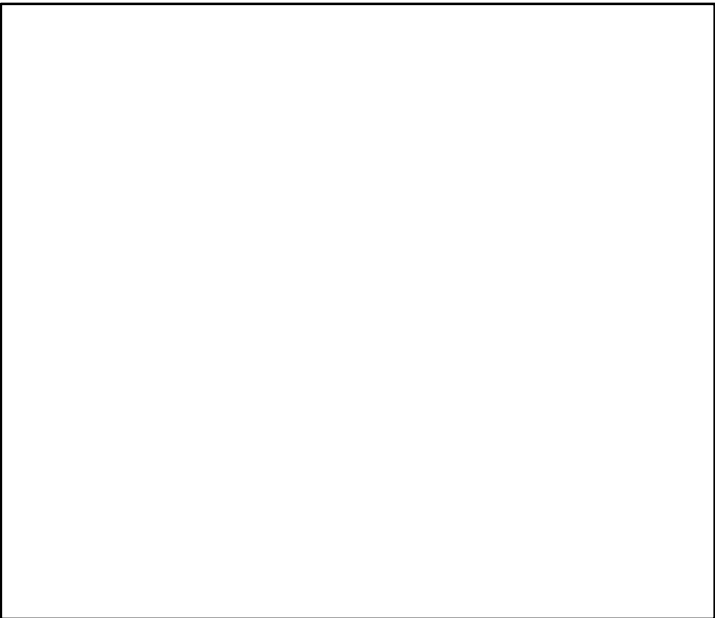
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Red seabream IX [RBRMIX]

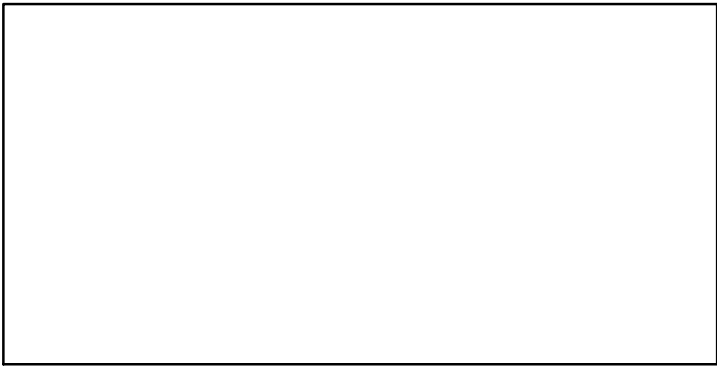
TB\*



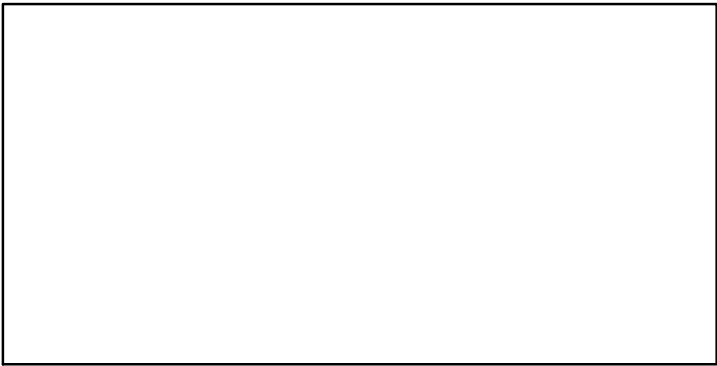
SSB\*



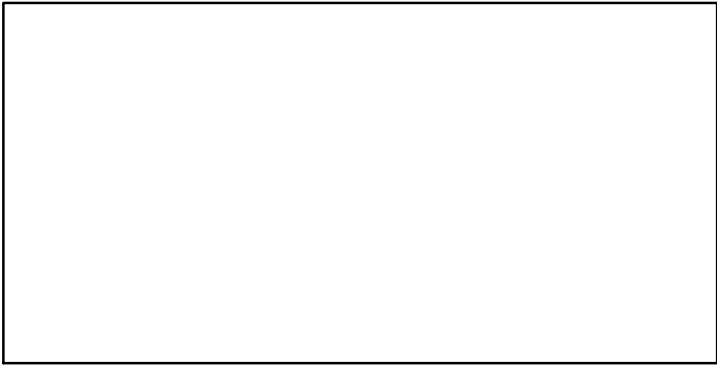
TN \*



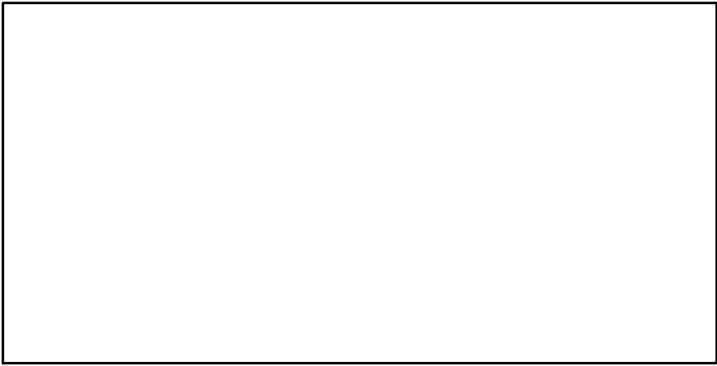
F\*



ER\*

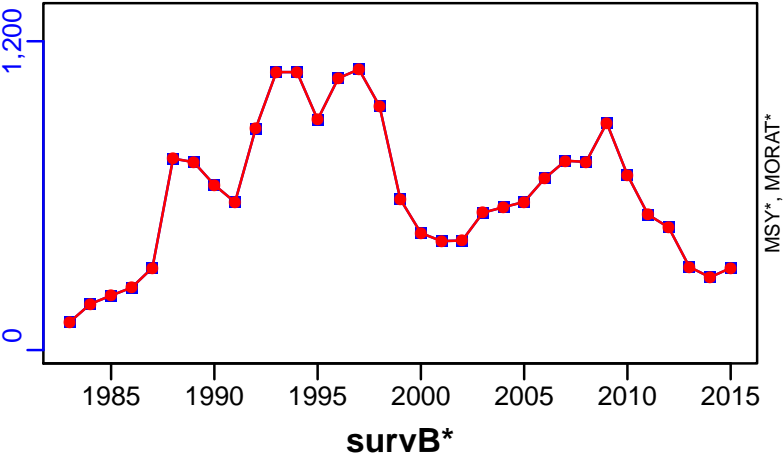


Recruits\*

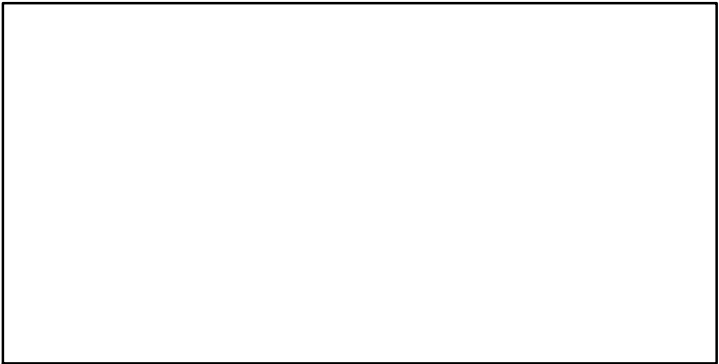


Red seabream IX [RBRMIX]

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



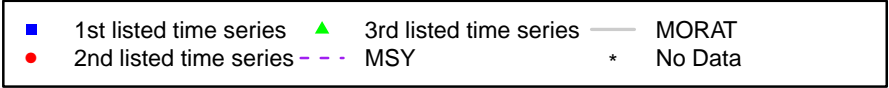
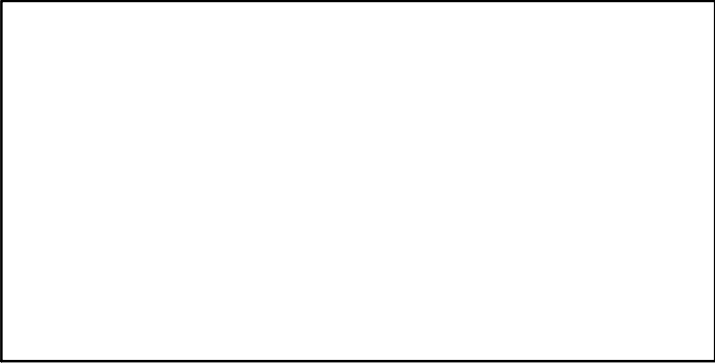
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

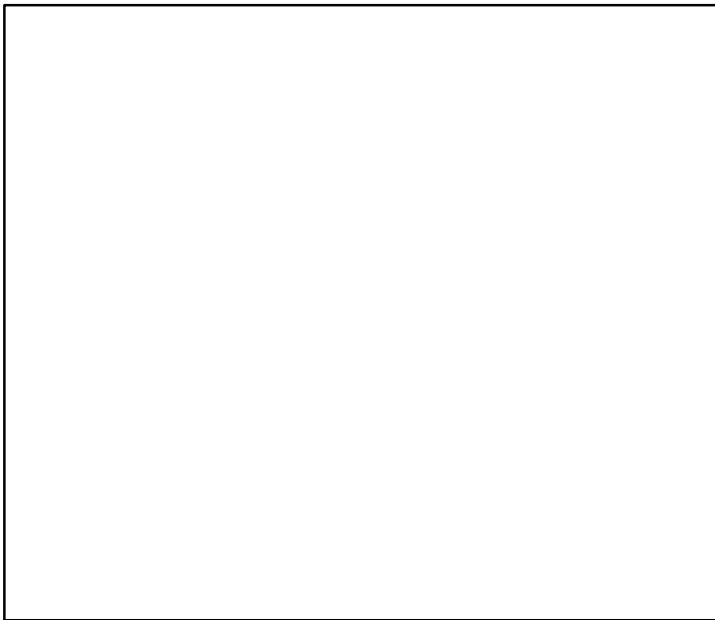
Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMVI-VII-VIII-1948-2016-ICESIMP2016
<b>Area</b>	VI-VII-VIII
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016

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

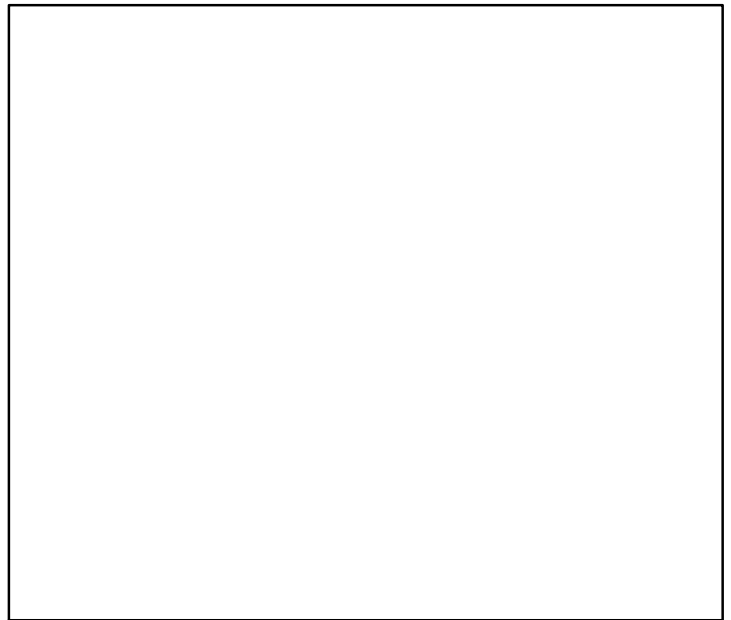
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	177		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

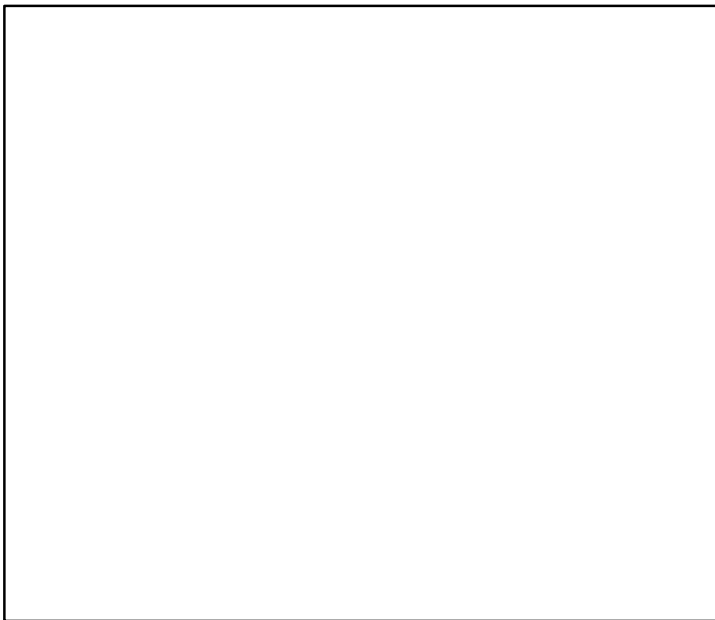
**Kobe MSY\***



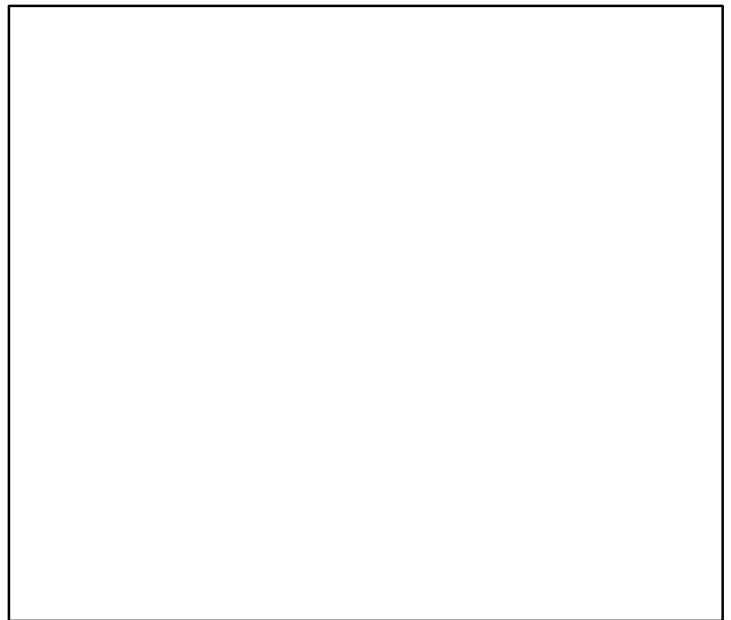
**Kobe MGT\***



**Spawner Recruit\***



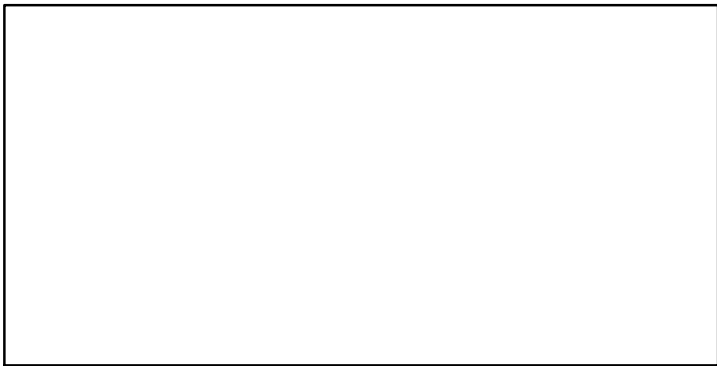
**Production\***



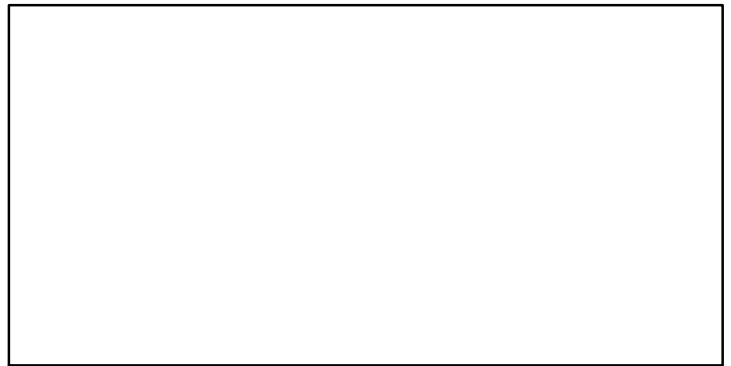
◆ Start Year   ◆ End Year   \* No Data

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

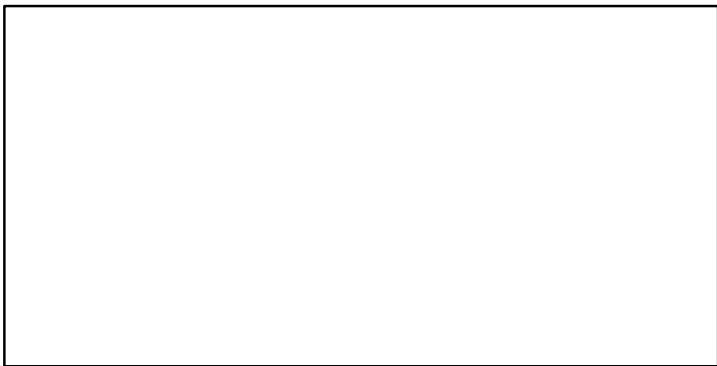
**TB\***



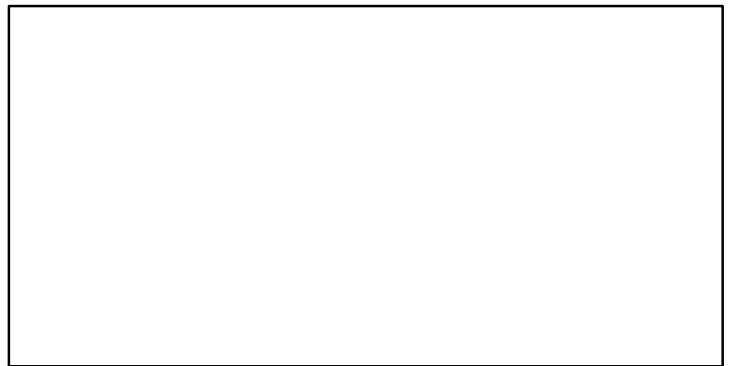
**SSB\***



**TN \***



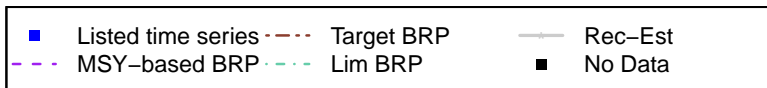
**F\***



**ER\***

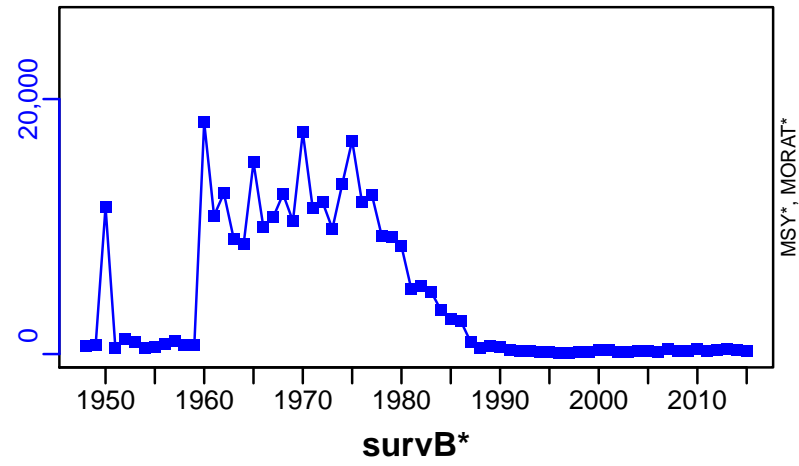


**Recruits\***

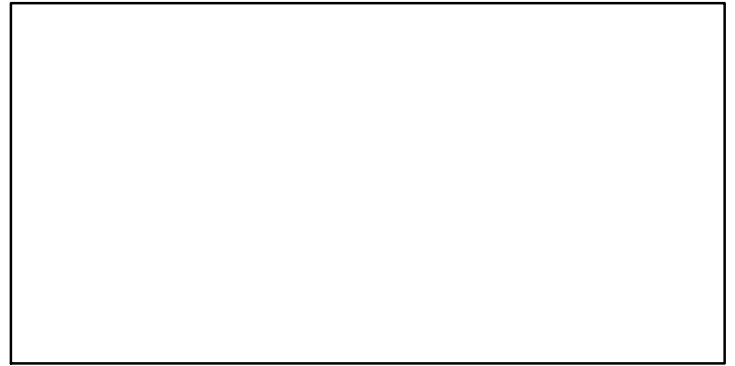


Red seabream VI–VII–VIII [RBRMVI–VII–VIII]

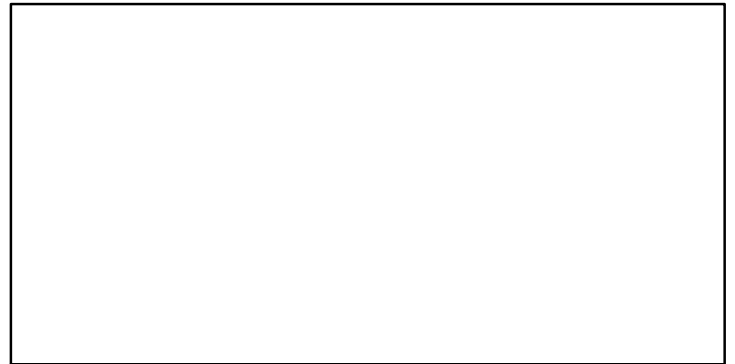
TL–MT, TC\*, RecC\* (1948–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

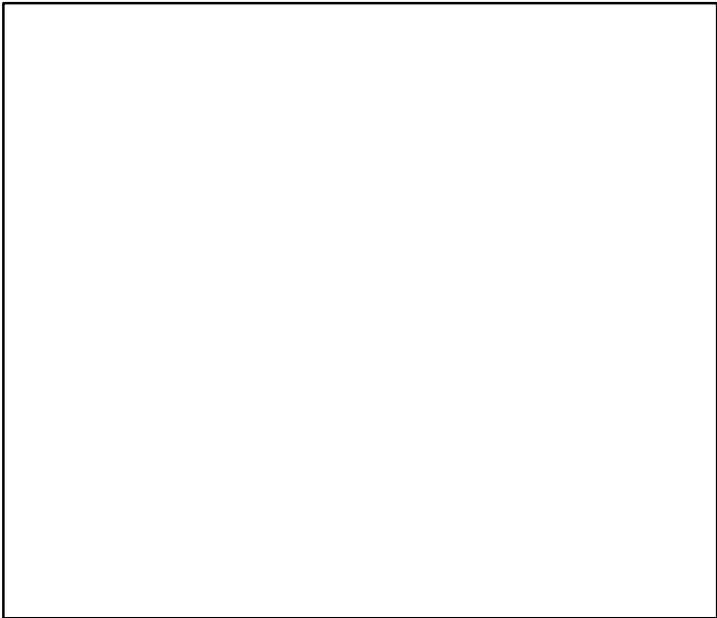
## Red seabream Azores Grounds [RBRMX]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	WGDEEP-RBRMX-1980-2016-ICESIMP2016
<b>Area</b>	Azores Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016

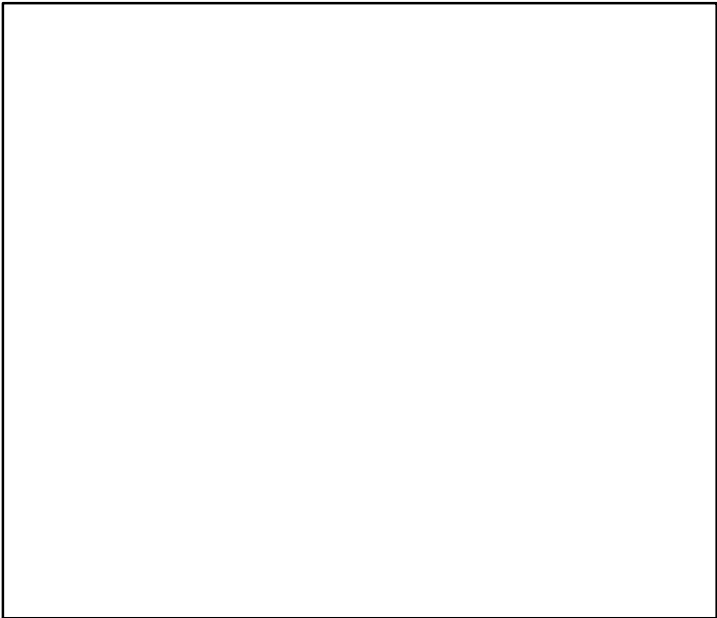
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

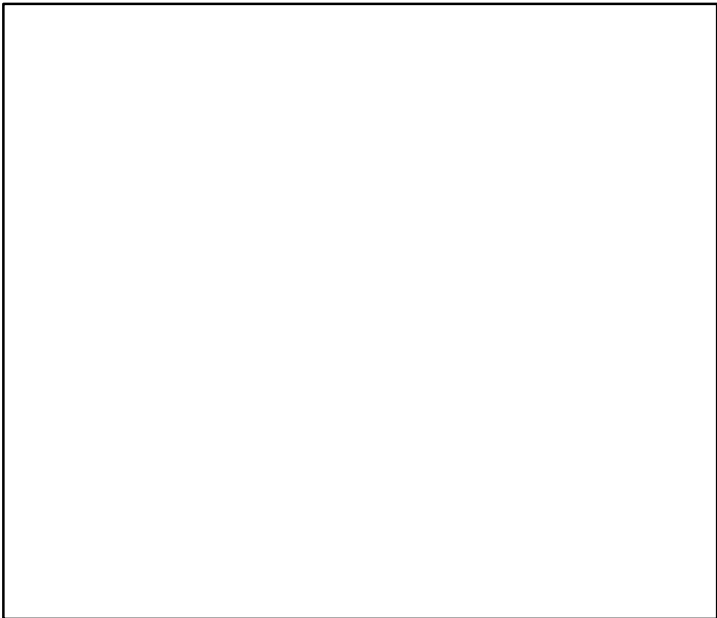
Kobe MSY\*



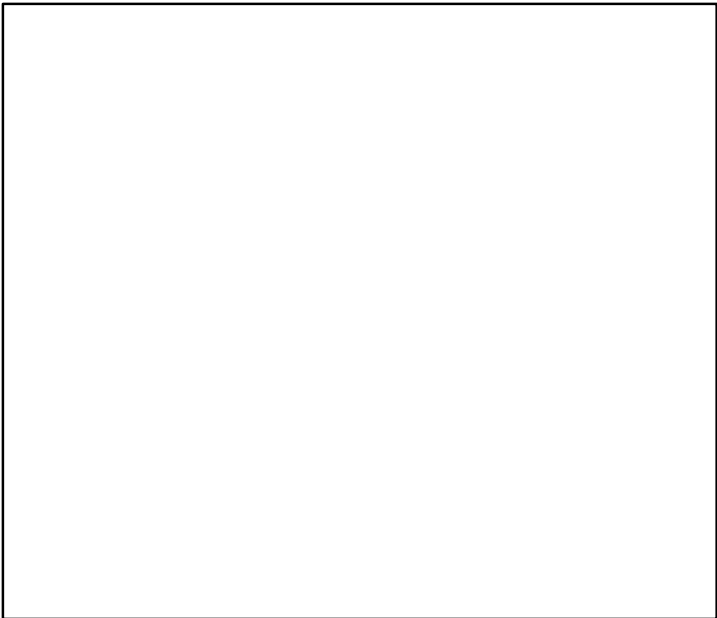
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Red seabream Azores Grounds [RBRMX]

TB\*



SSB\*



TN \*



F\*



ER\*



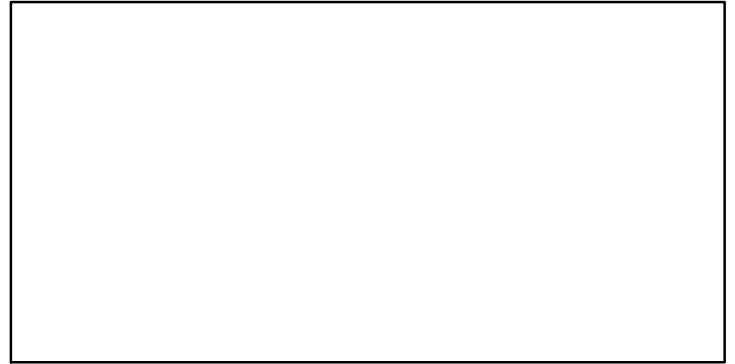
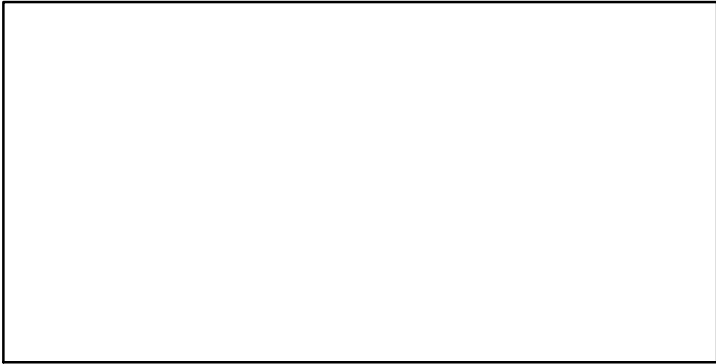
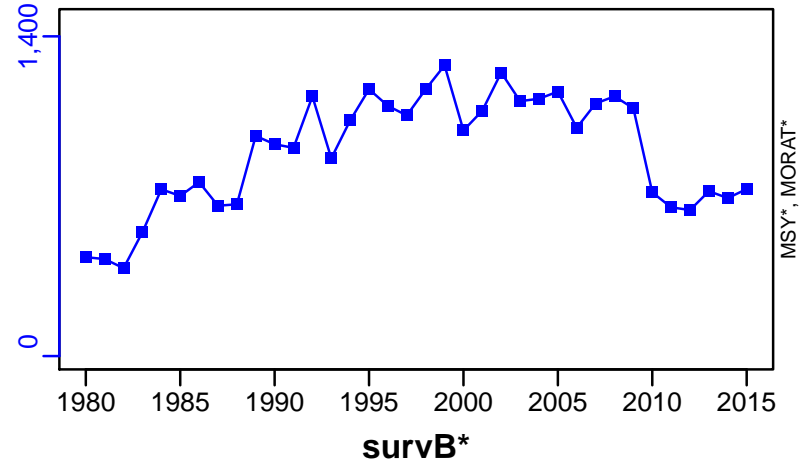
Recruits\*



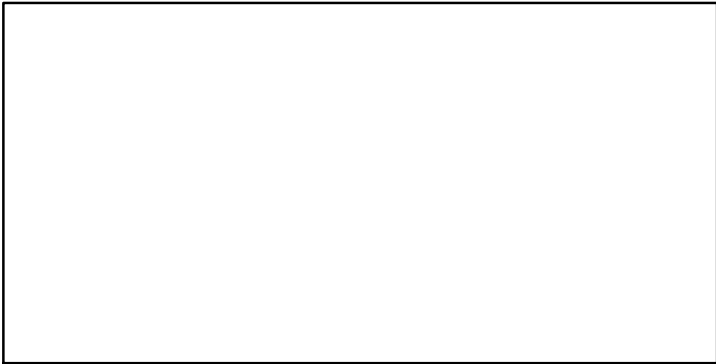
# Red seabream Azores Grounds [RBRMX]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





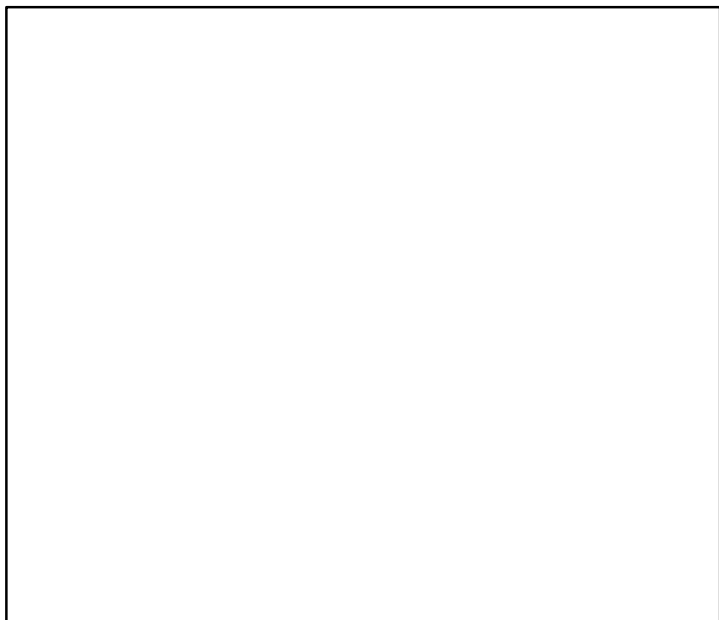
## Beaked Redfish Southeast Greenland [REDDEEPXIVb]

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPXIVb-1974-2016-ICESIMP2016
<b>Area</b>	Southeast Greenland
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2016

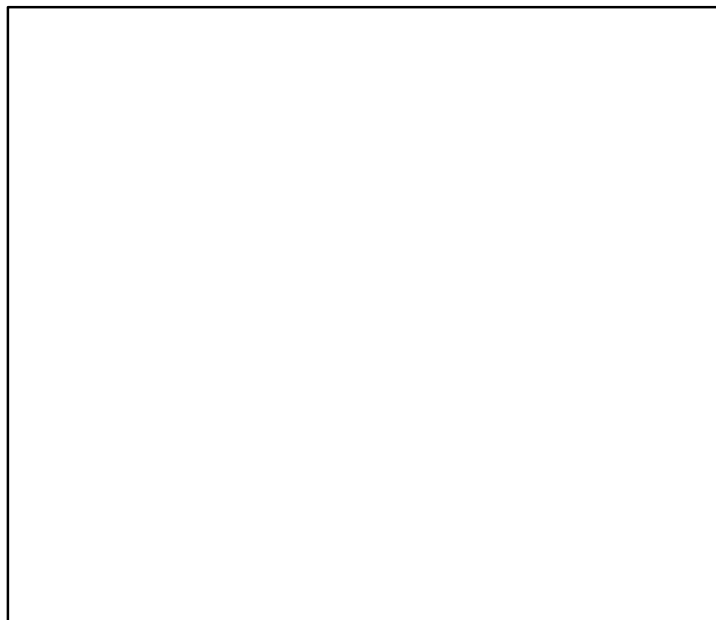
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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\***



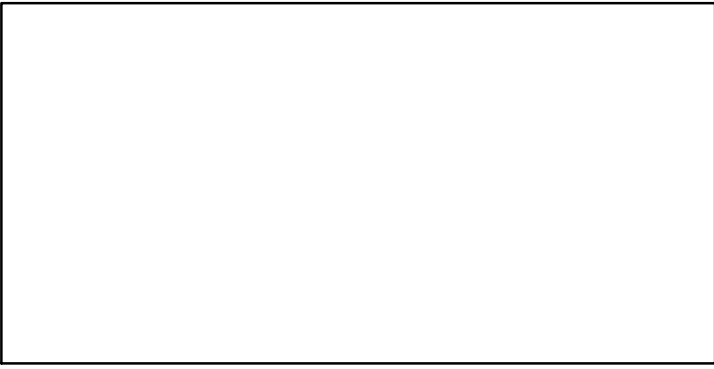
**Production\***



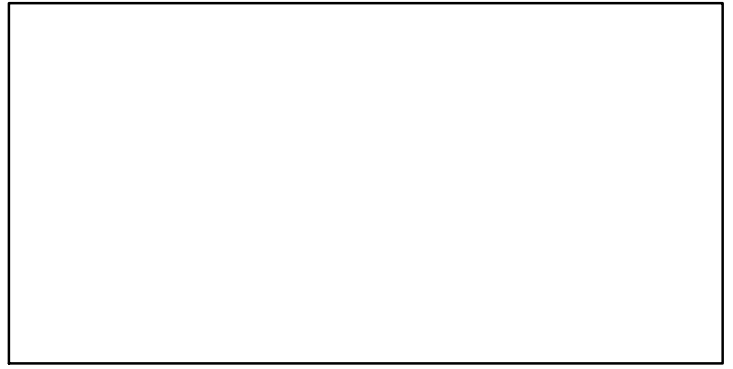
◆ Start Year   ◆ End Year   \* No Data

Beaked Redfish Southeast Greenland [REDDEEPXIVb]

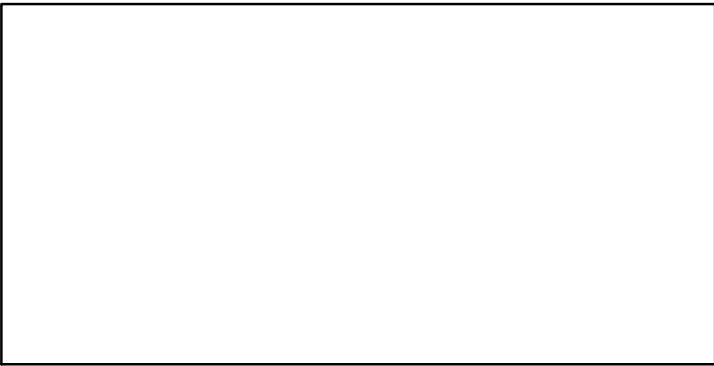
**TB\***



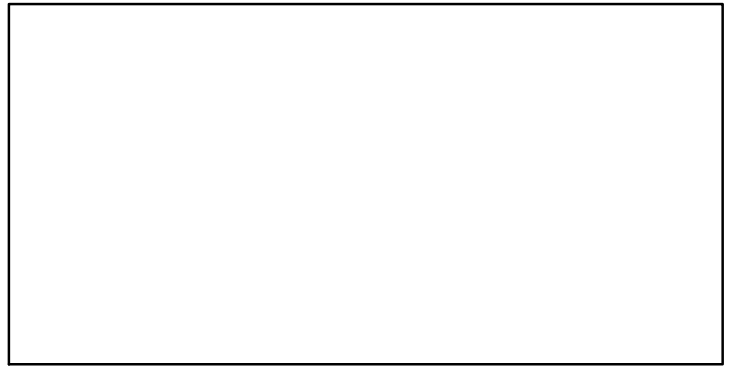
**SSB\***



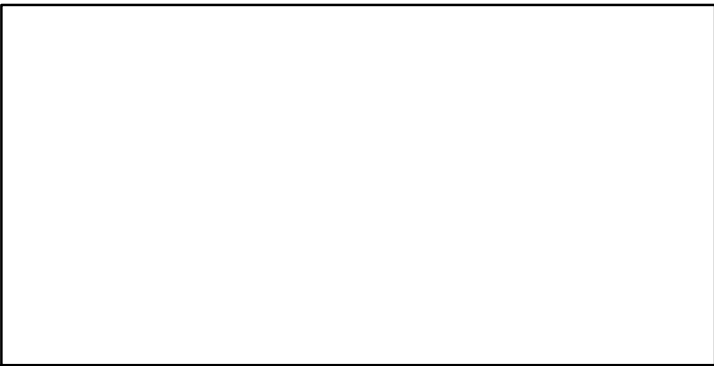
**TN \***



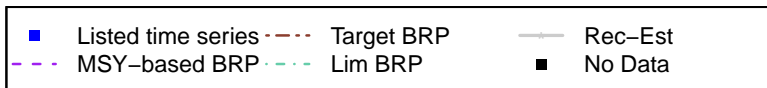
**F\***



**ER\***

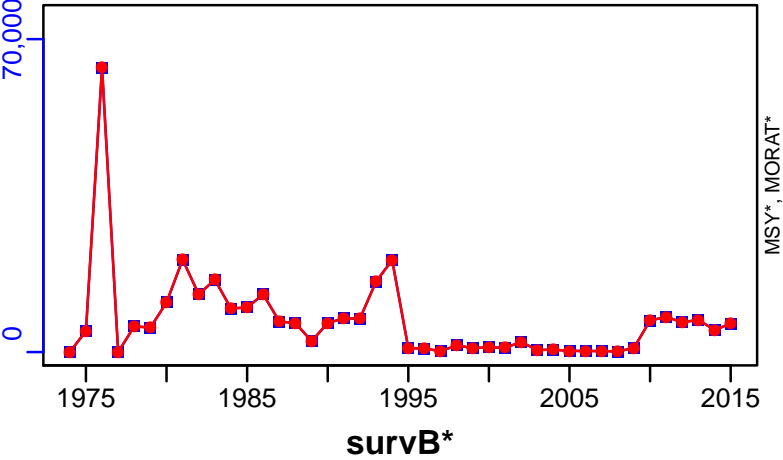


**Recruits\***



Beaked Redfish Southeast Greenland [REDDEEPXIVb]

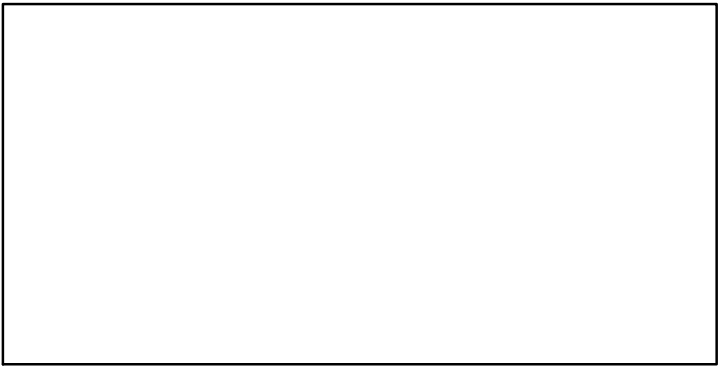
TC-MT, TL-MT, RecC\* (1974–2016–ICESIMP2016)



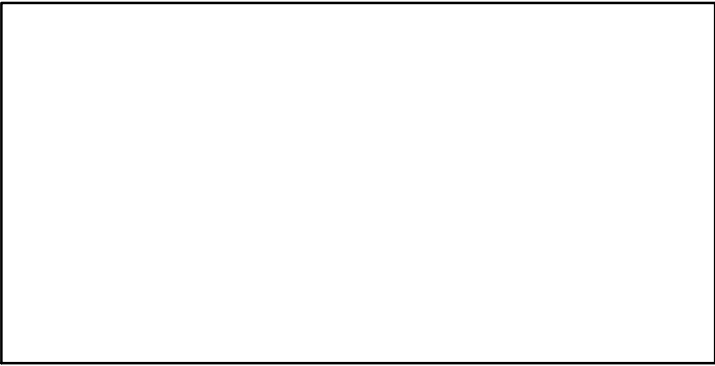
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*

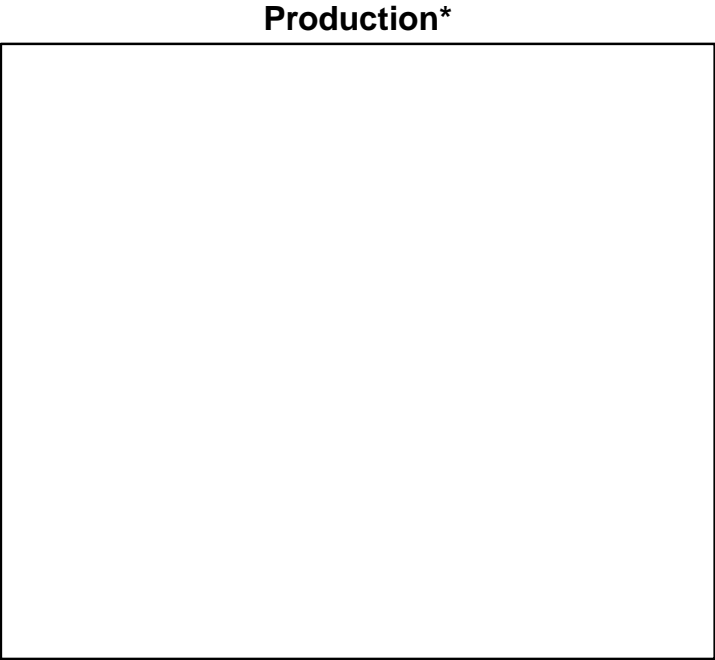
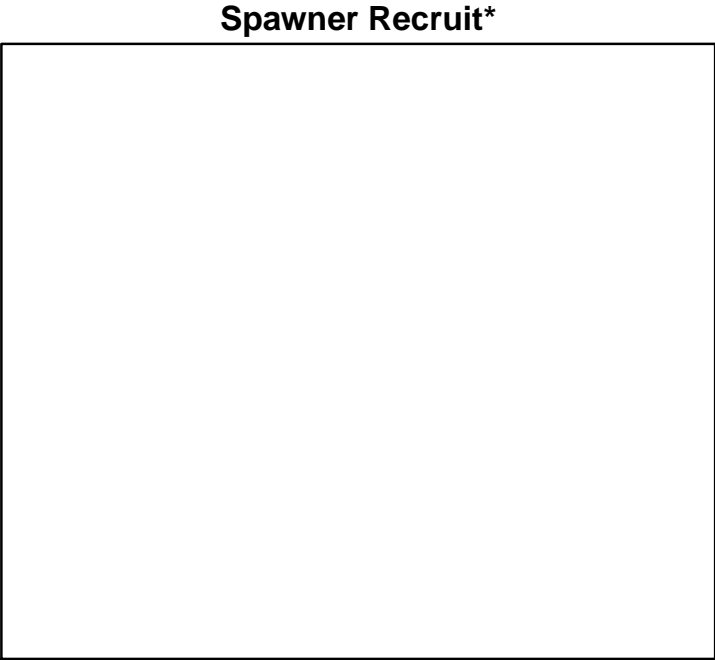
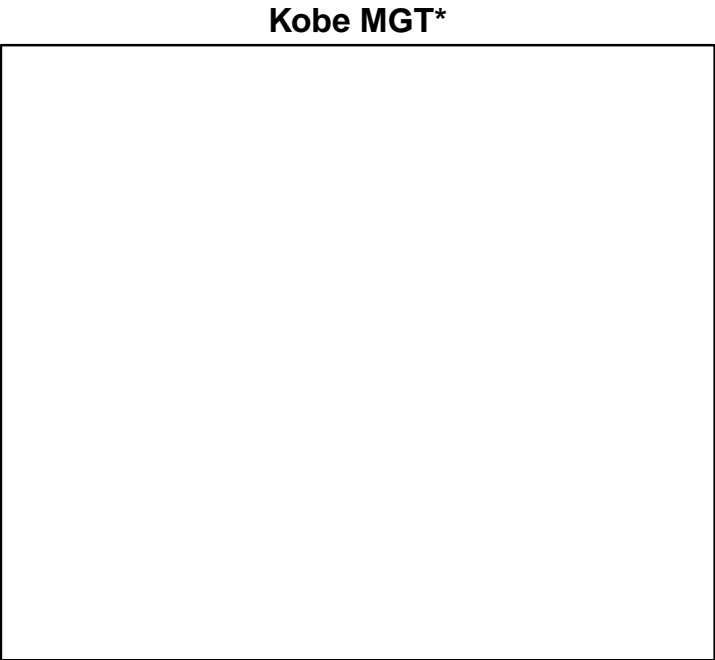
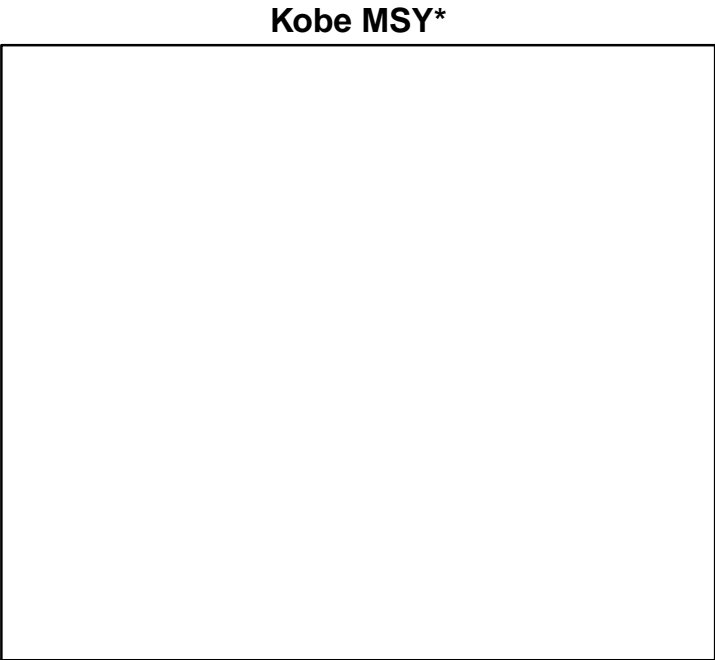


## Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



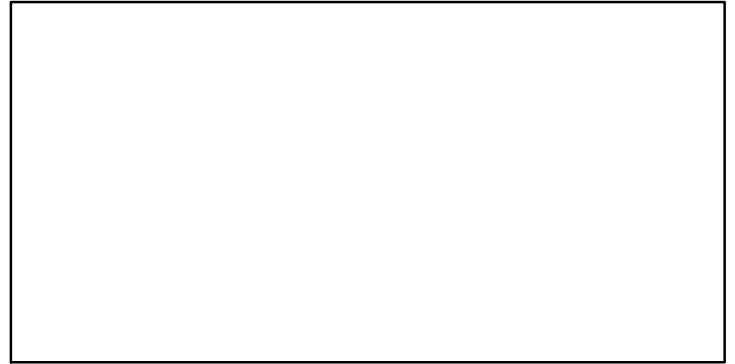
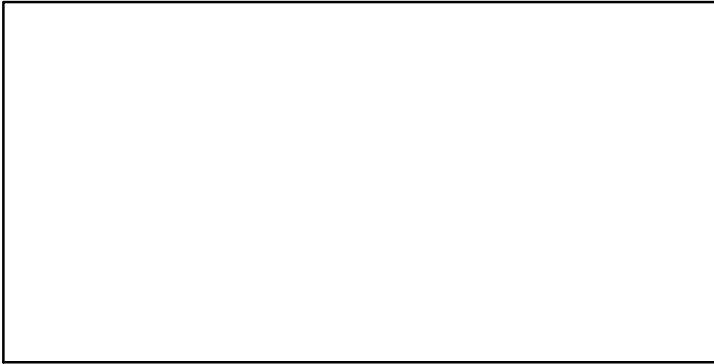
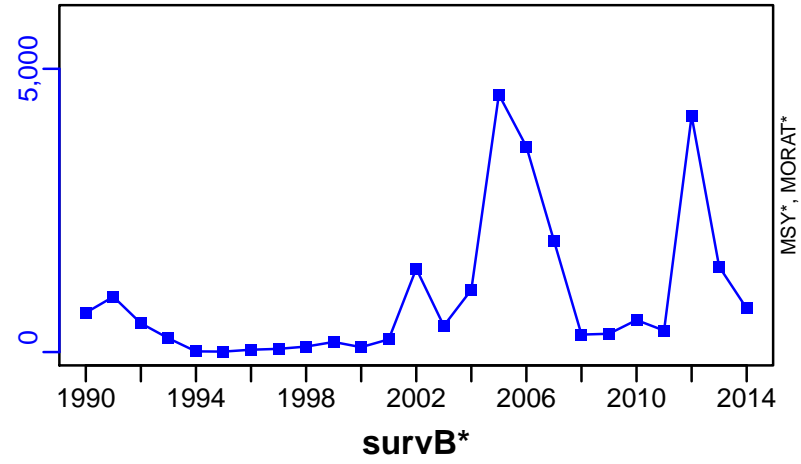
Recruits\*



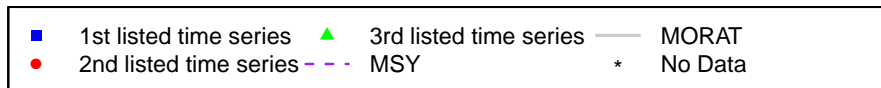
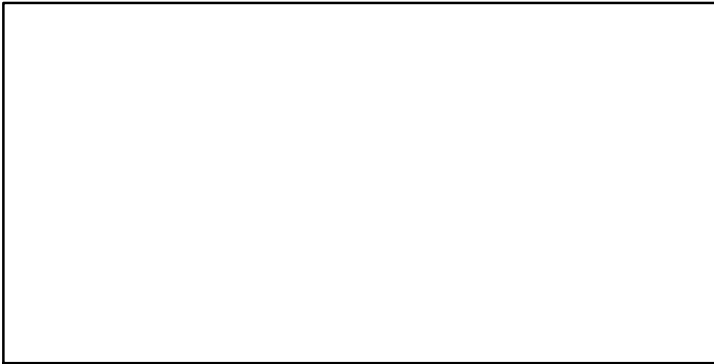
# Roughhead grenadier Northeast Atlantic [RHGRENNEATL]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



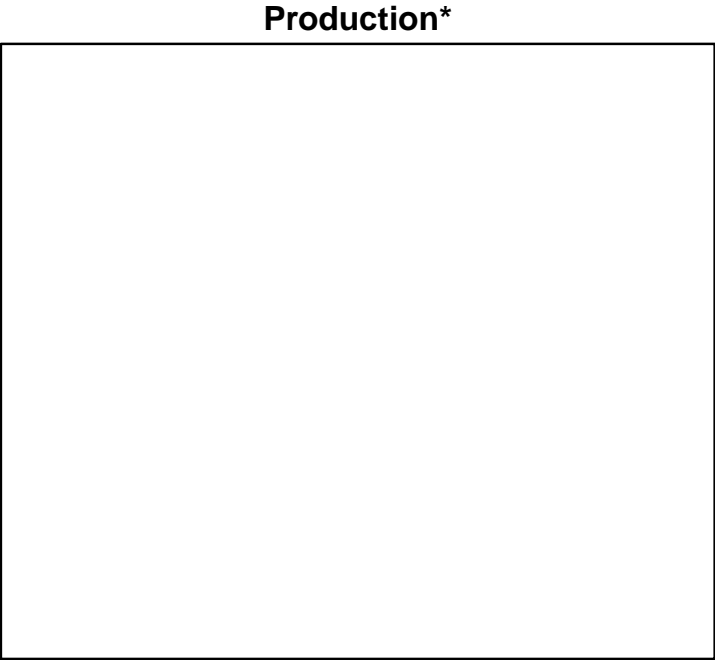
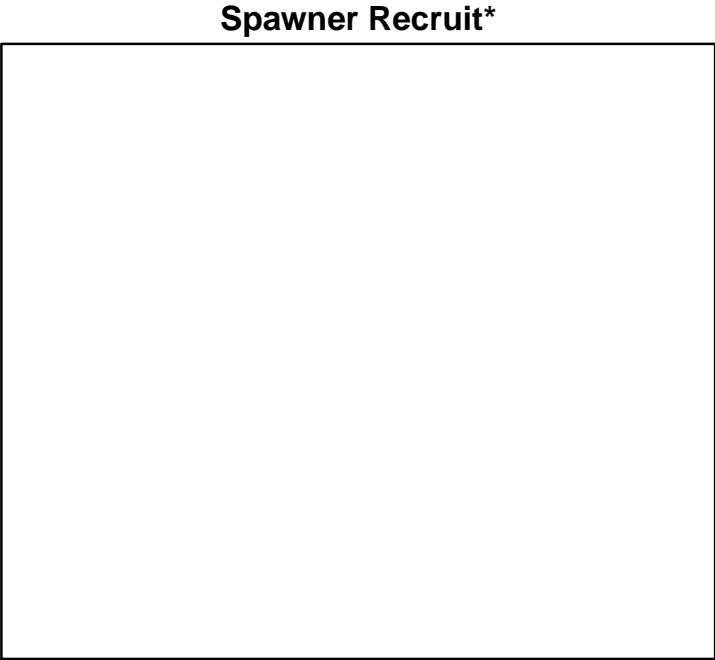
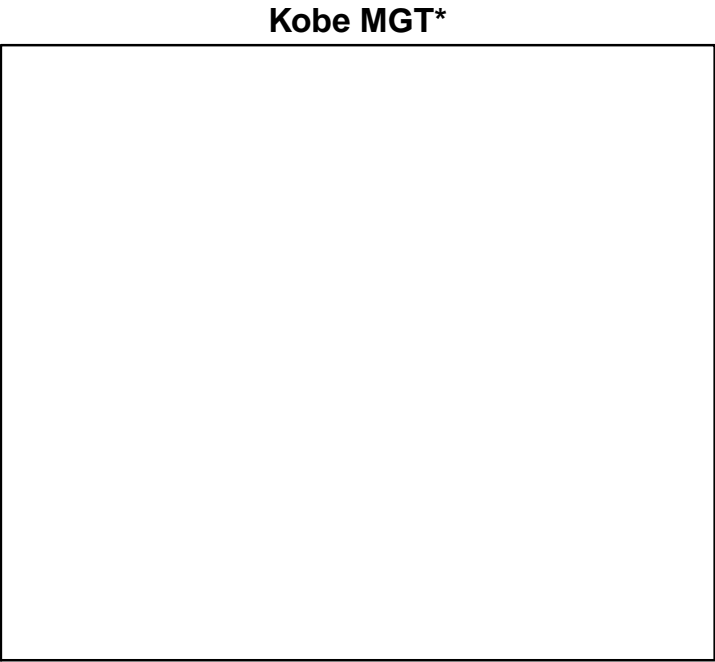
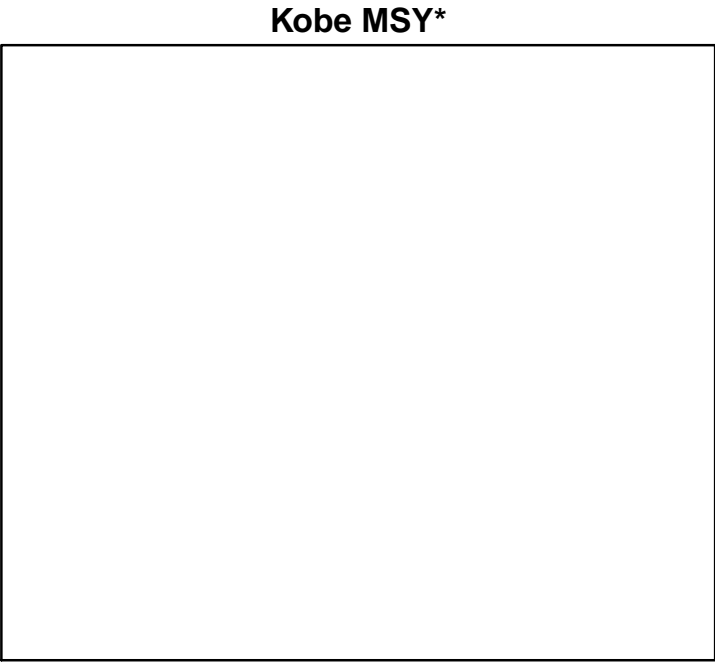


## Roundnose grenadier I-II-IV-Va2-VIII-IX-XIVab2 [RNGENI-II-IV-Va2-VIII-IX-XIVab2]

Metadata	
<b>Scientific Name</b>	Coryphaenoides rupestris
<b>Current Assess ID</b>	WGDEEP-RNGENI-II-IV-Va2-VIII-IX-XIVab2-1990-2015-ICESIMP2016
<b>Area</b>	I-II-IV-Va2-VIII-IX-XIVab2
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	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	51		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year    ◆ End Year    \* No Data

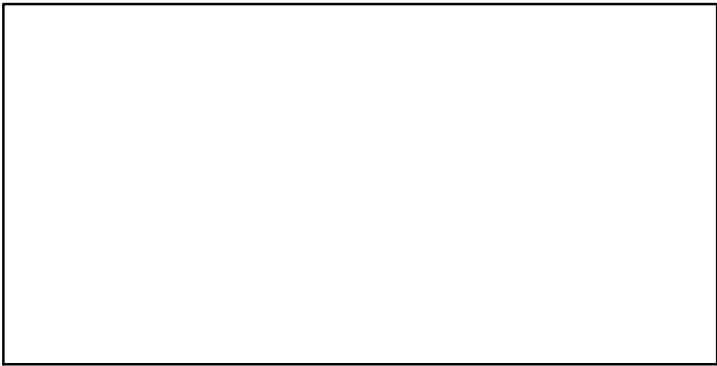
**TB\***



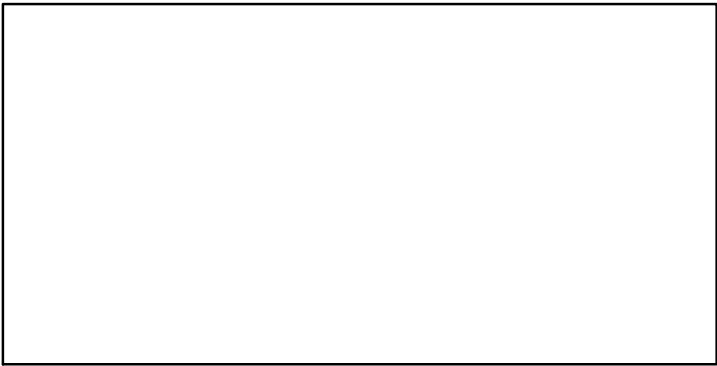
**SSB\***



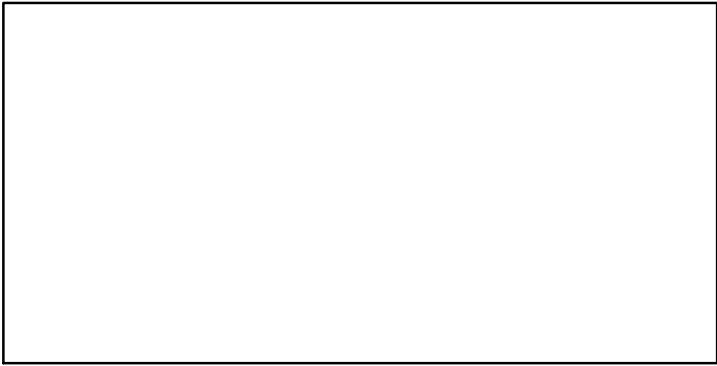
**TN \***



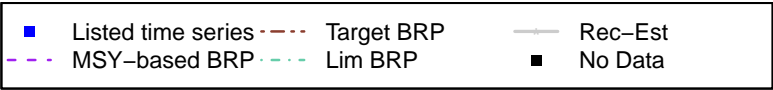
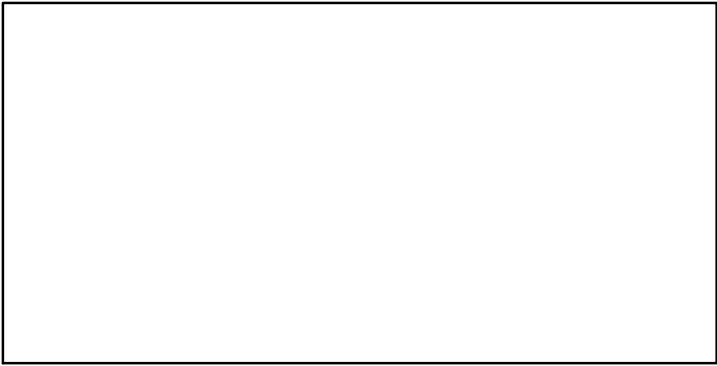
**F\***



**ER\***

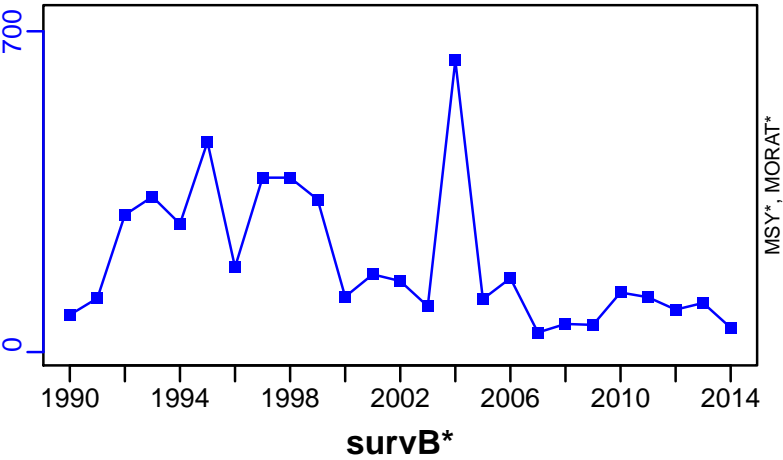


**Recruits\***



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

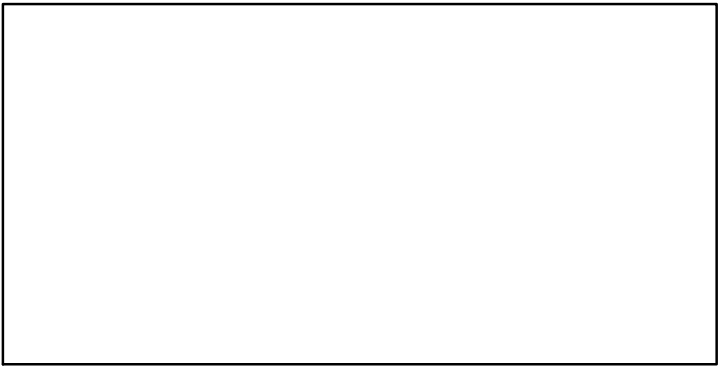
TL-MT, TC\*, RecC\* (1990-2015-ICESIMP2016)



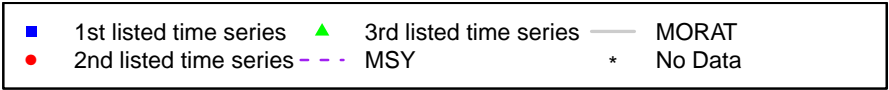
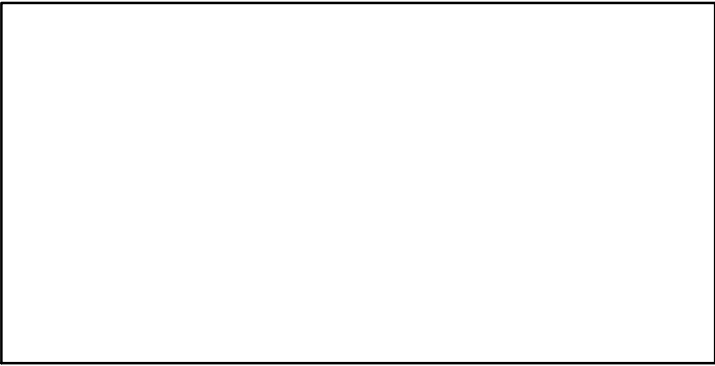
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



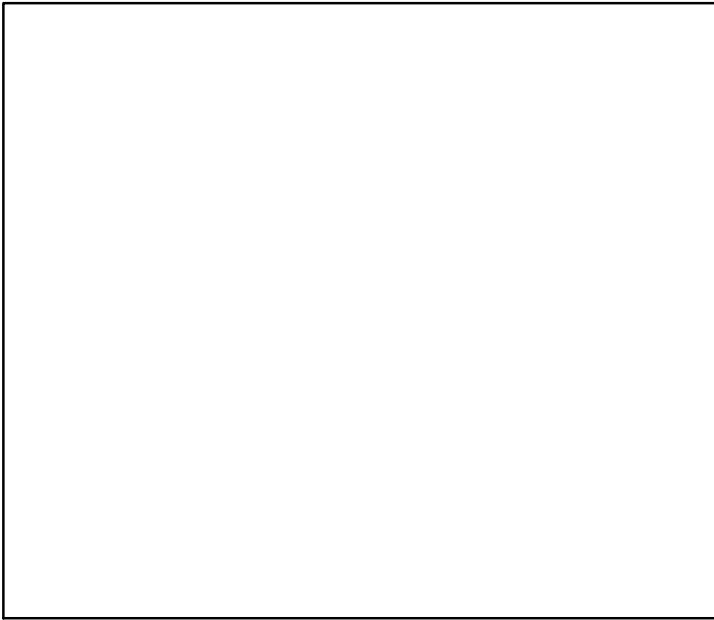
## Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

Metadata	
<b>Scientific Name</b>	Coryphaenoides rupestris
<b>Current Assess ID</b>	WGDEEP-RNGENMATLR-1980-2015-ICESIMP2016
<b>Area</b>	Mid-Atlantic Ridge (Xb, XIIc, Va1, XIIa1, XIVb1)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2015

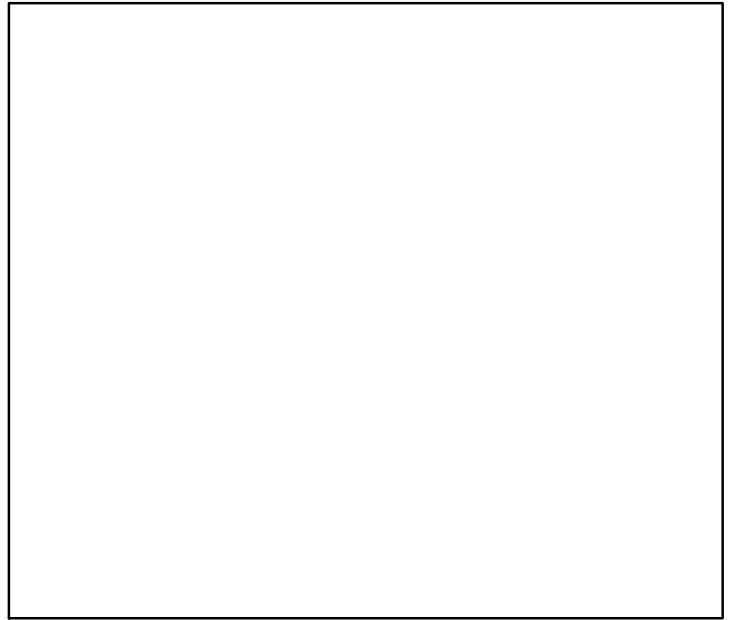
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

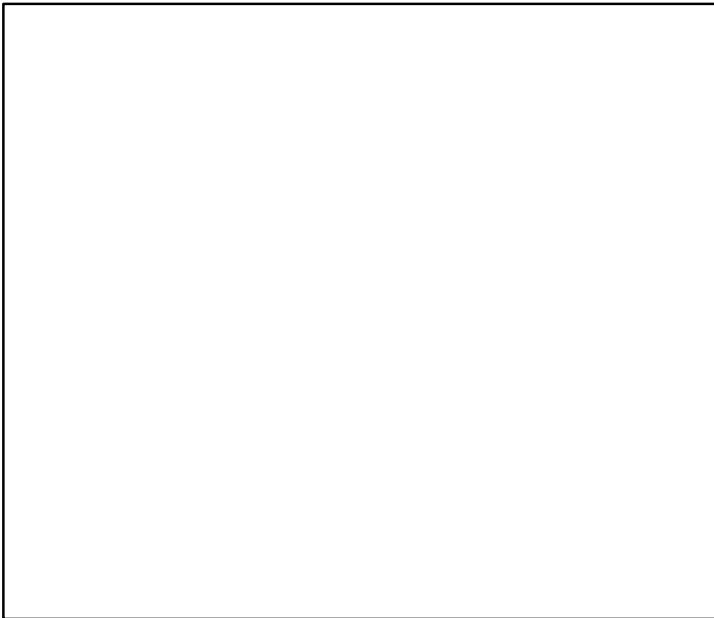
**Kobe MSY\***



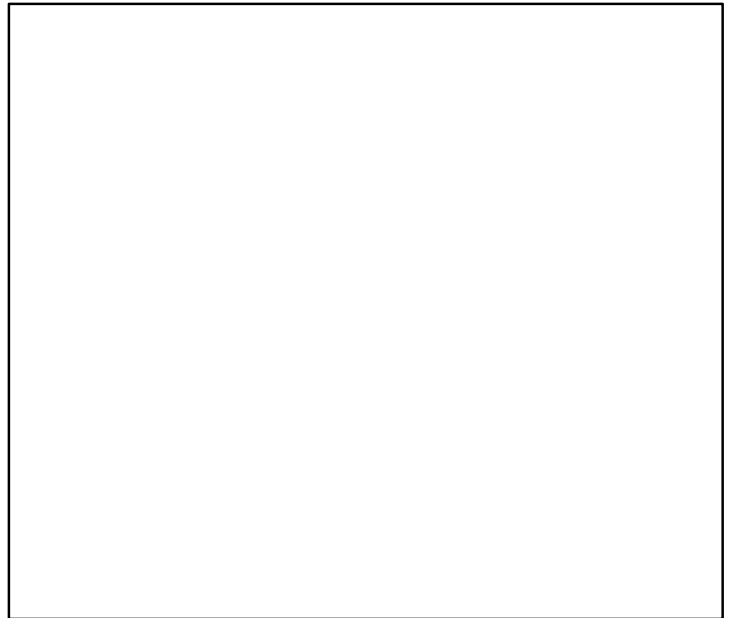
**Kobe MGT\***



**Spawner Recruit\***



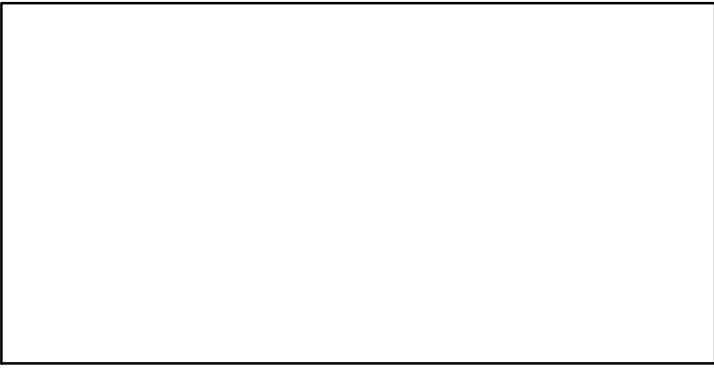
**Production\***



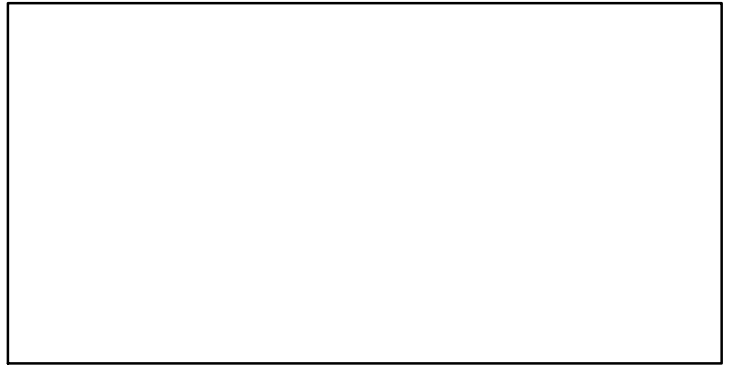
◆ Start Year   ◆ End Year   \* No Data

Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

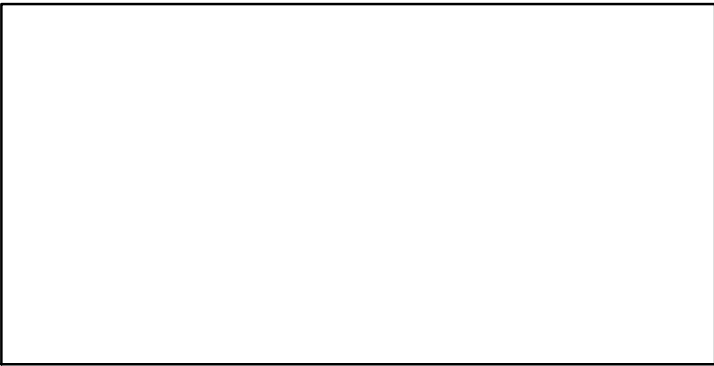
**TB\***



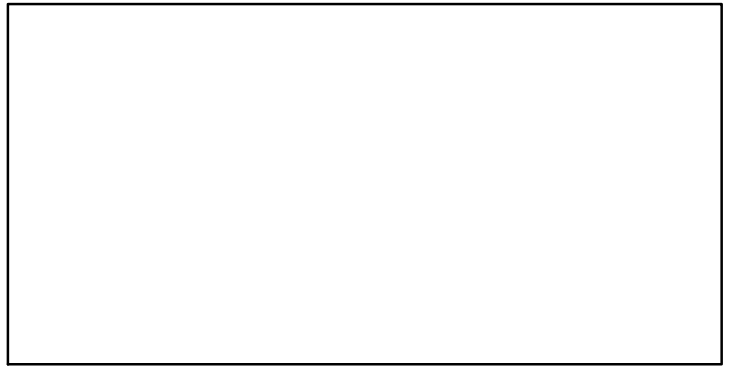
**SSB\***



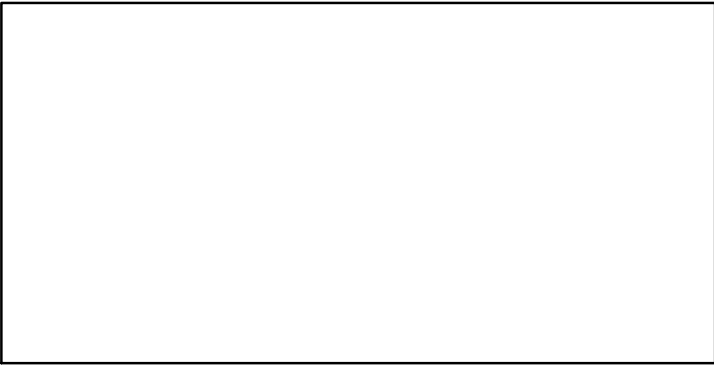
**TN \***



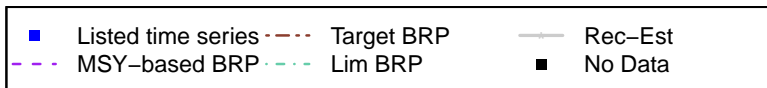
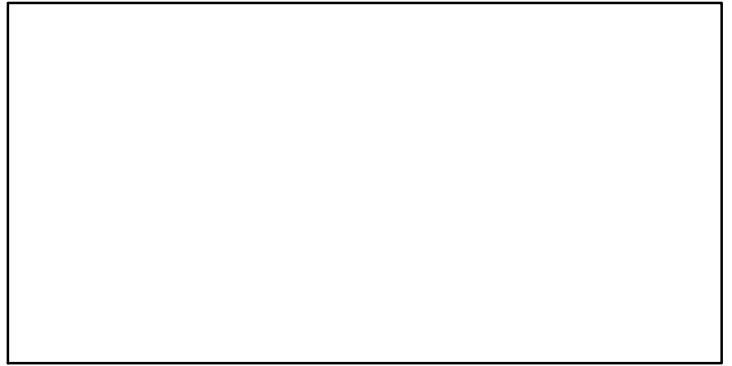
**F\***



**ER\***

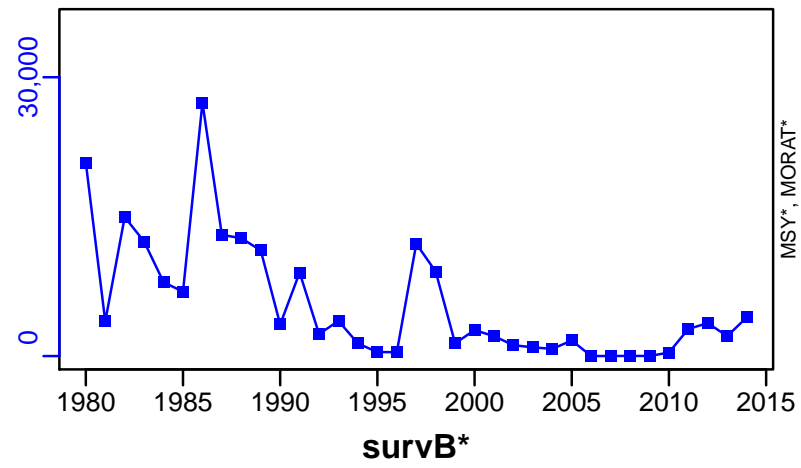


**Recruits\***

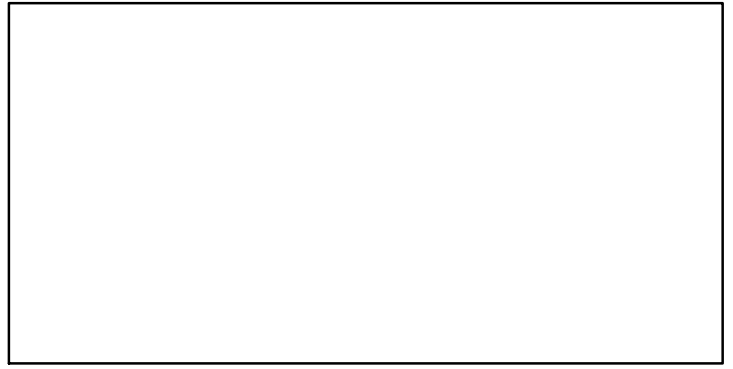


Roundnose grenadier Mid-Atlantic Ridge [RNGENMATLR]

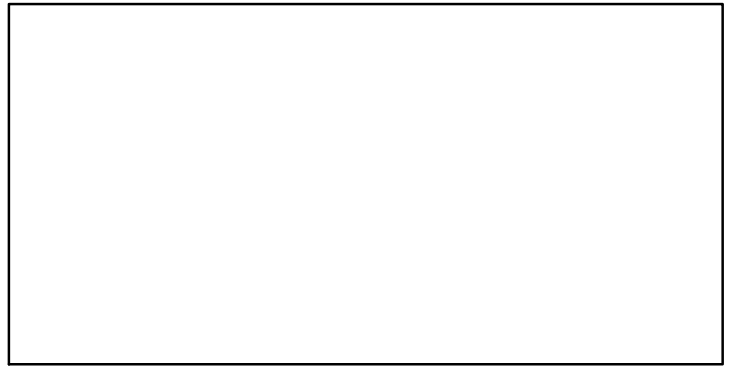
TL-MT, TC\*, RecC\* (1980–2015–ICESIMP2016)



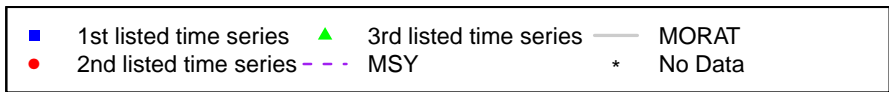
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

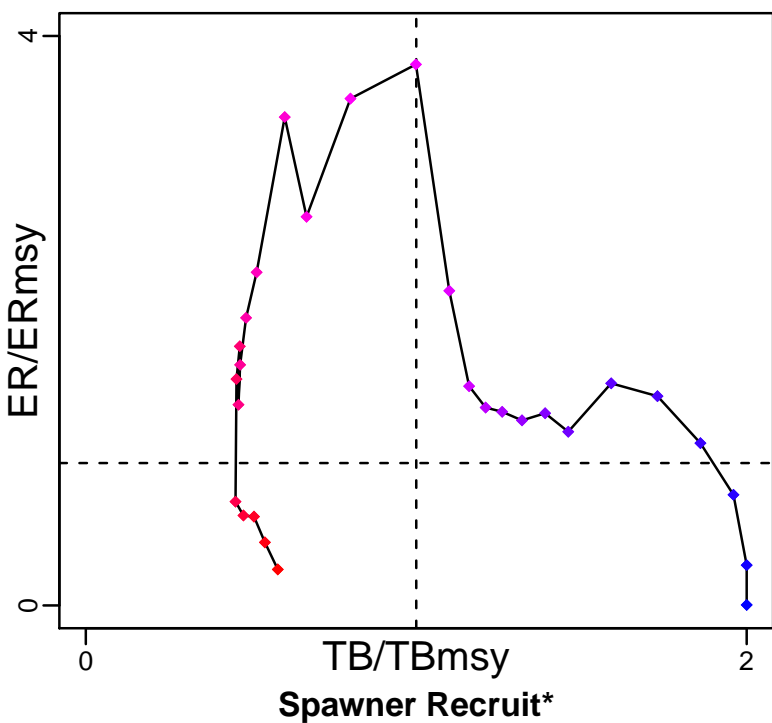
Metadata	
<b>Scientific Name</b>	Coryphaenoides rupestris
<b>Current Assess ID</b>	WGDEEP-RNGENVb-VI-VII-XIIb-1988-2016-ICESIMP2016
<b>Area</b>	Vb-VI-VII-XIIb
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of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

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

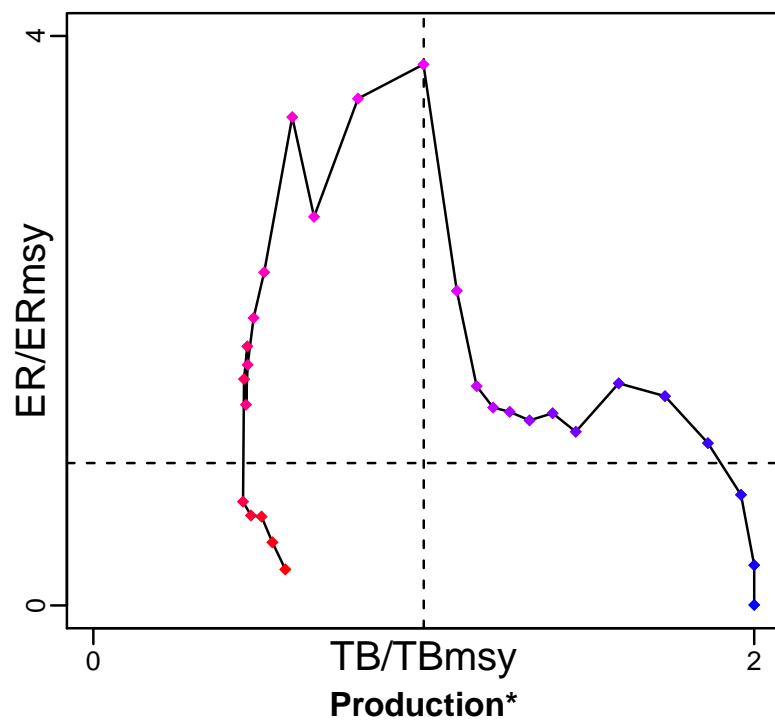
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	1360		
TB/TBmsy	TBdivTBmsy-dimensionless	2016	0.581		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2016	0.253		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1988–2016–ICESIMP2016)



Kobe MGTpref (1988–2016–ICESIMP2016)



◆ Start Year ◆ End Year \* No Data

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

**TB\***



**SSB\***



**TN \***



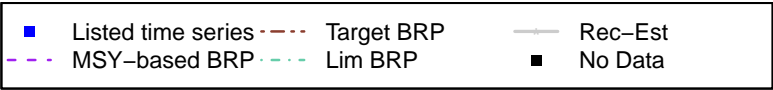
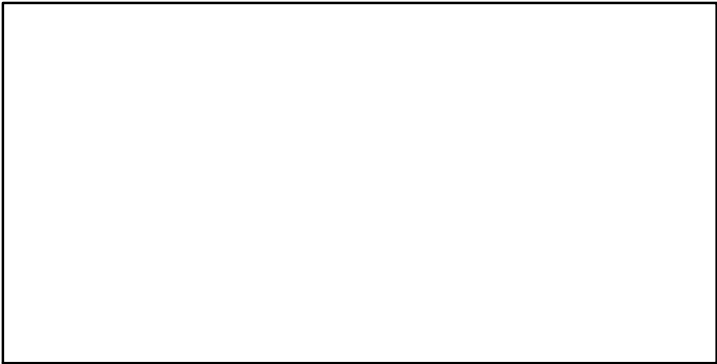
**F\***



**ER\***

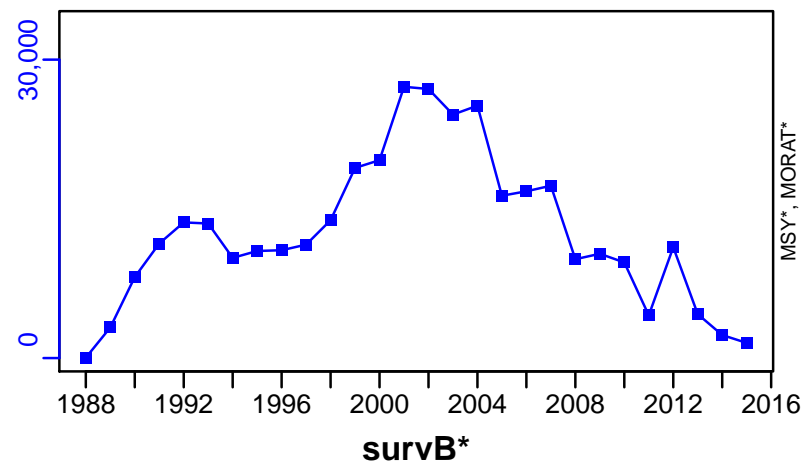


**Recruits\***

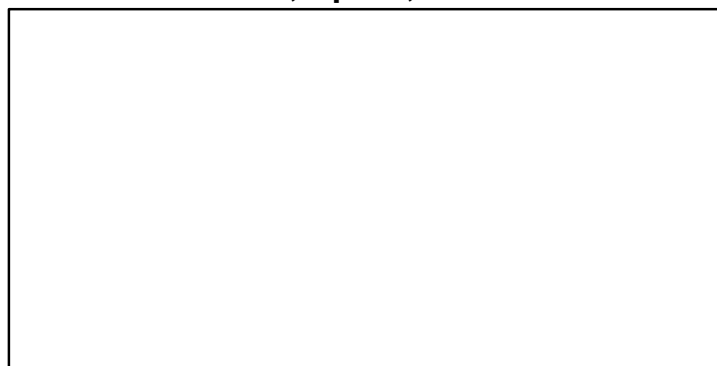


# Roundnose grenadier Vb–VI–VII–XIlb [RNGENVb–VI–VII–XIlb]

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



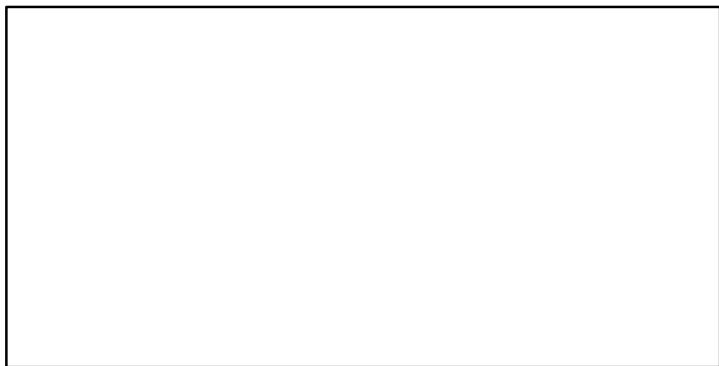
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

## Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

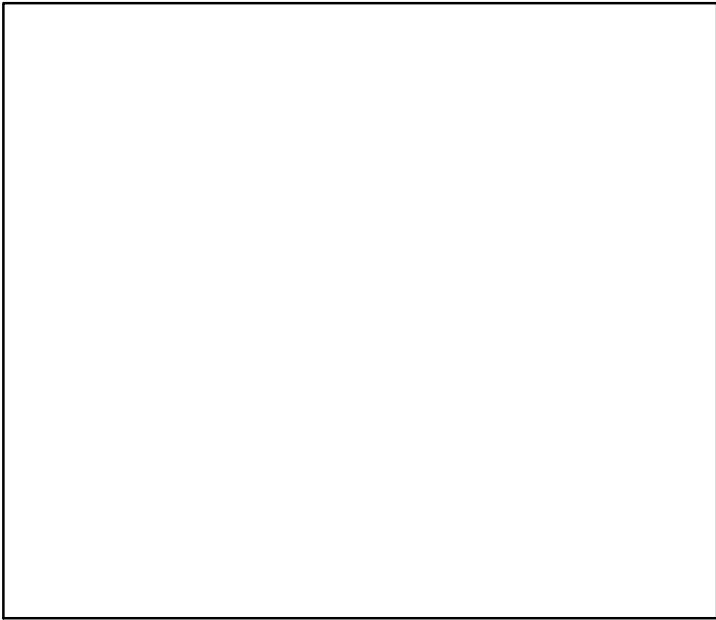
Metadata	
<b>Scientific Name</b>	Coryphaenoides rupestris
<b>Current Assess ID</b>	WGDEEP-RNGRENIIIa-1988-2016-ICESIMP2016
<b>Area</b>	Kattegat and Skagerrak
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of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

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

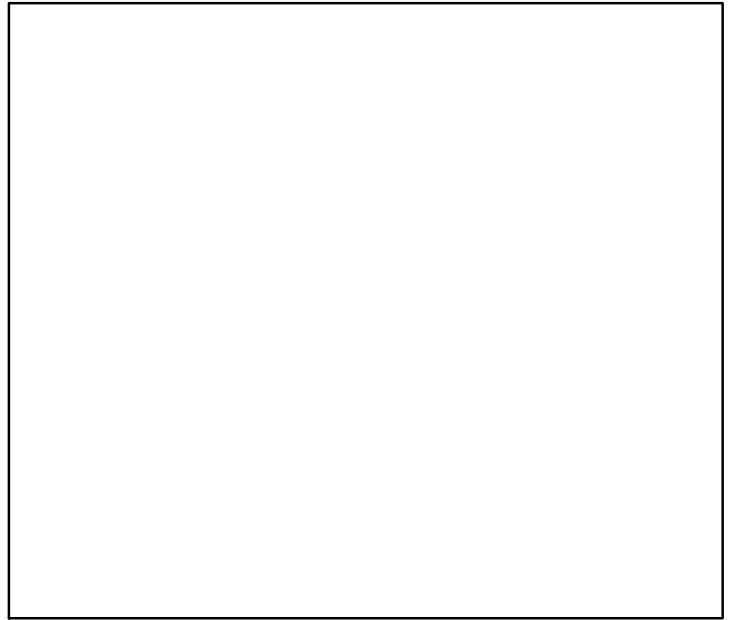
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2		
TL	TL-MT	2016	1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

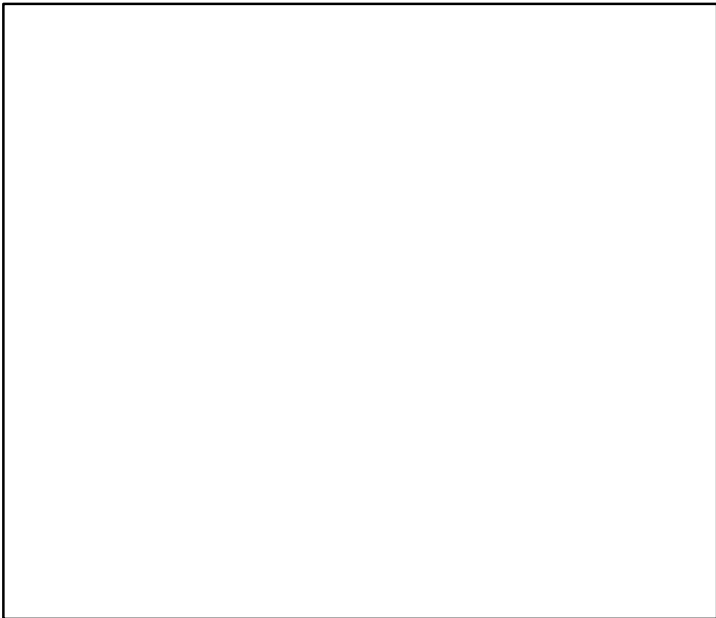
**Kobe MSY\***



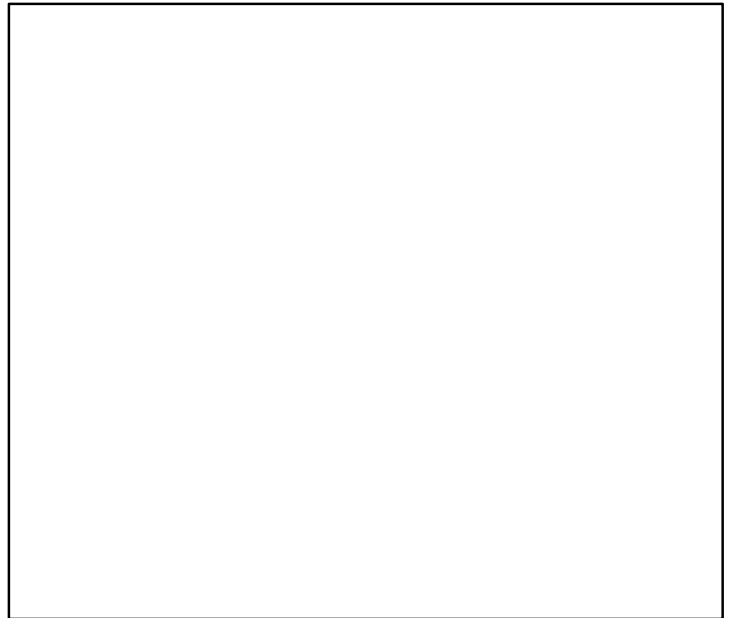
**Kobe MGT\***



**Spawner Recruit\***



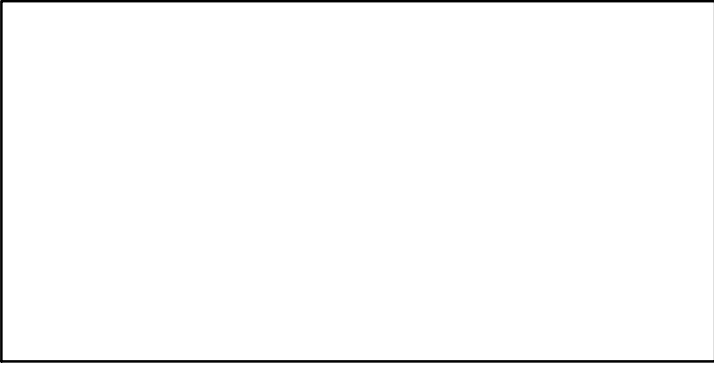
**Production\***



◆ Start Year ◆ End Year \* No Data

Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

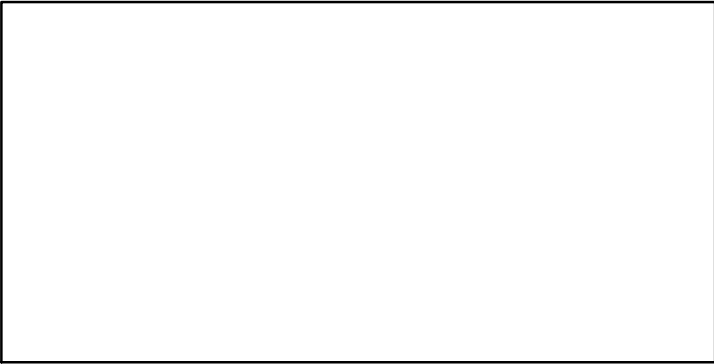
**TB\***



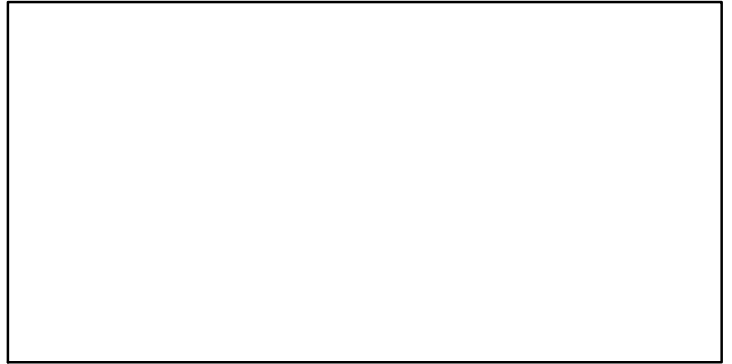
**SSB\***



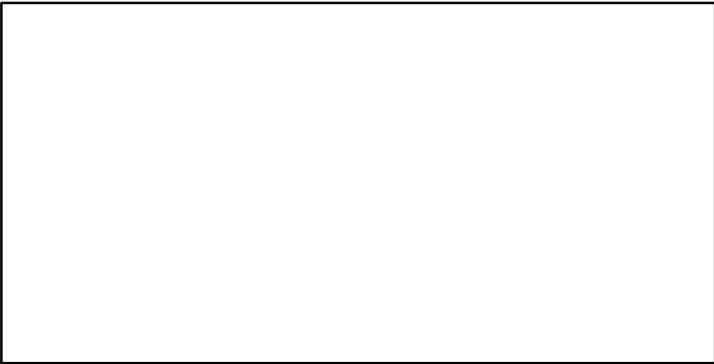
**TN \***



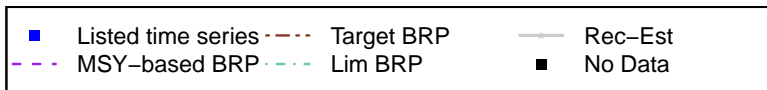
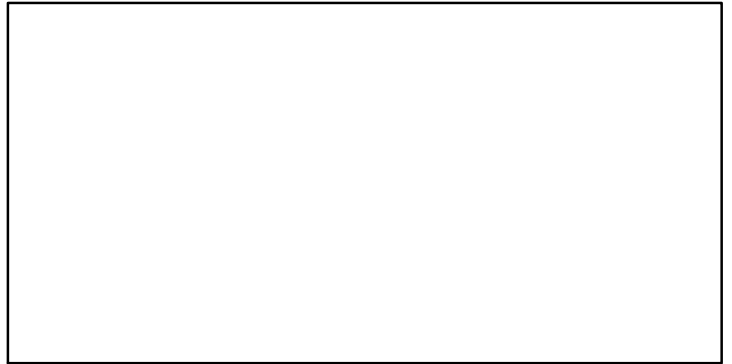
**F\***



**ER\***

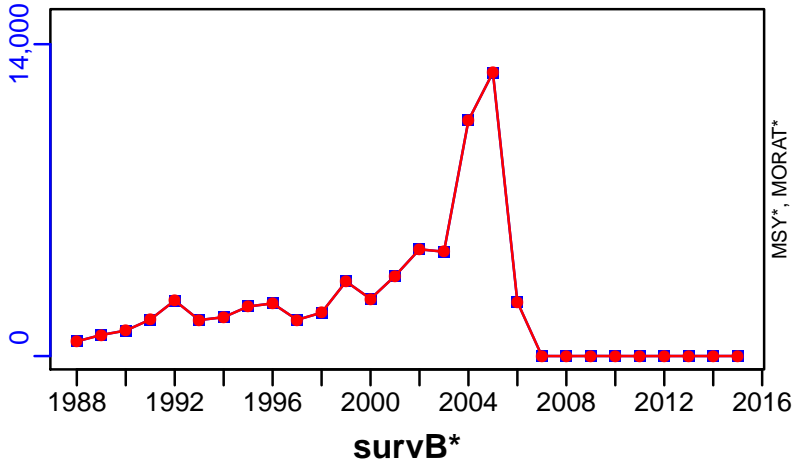


**Recruits\***

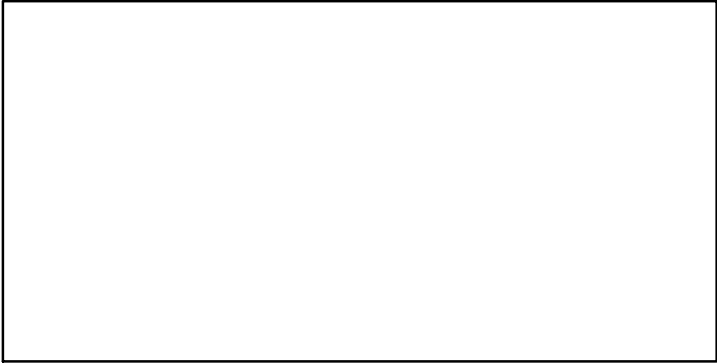


# Roundnose grenadier Kattegat and Skagerrak [RNGRENIIIa]

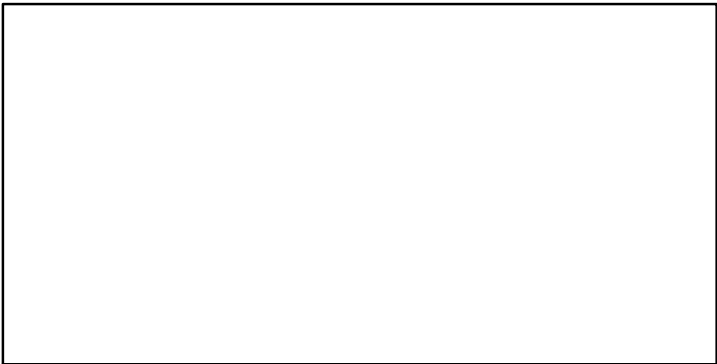
TC-MT, TL-MT, RecC\* (1988–2016–ICESIMP2016)



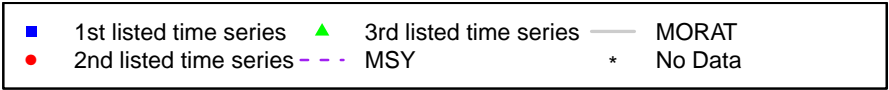
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

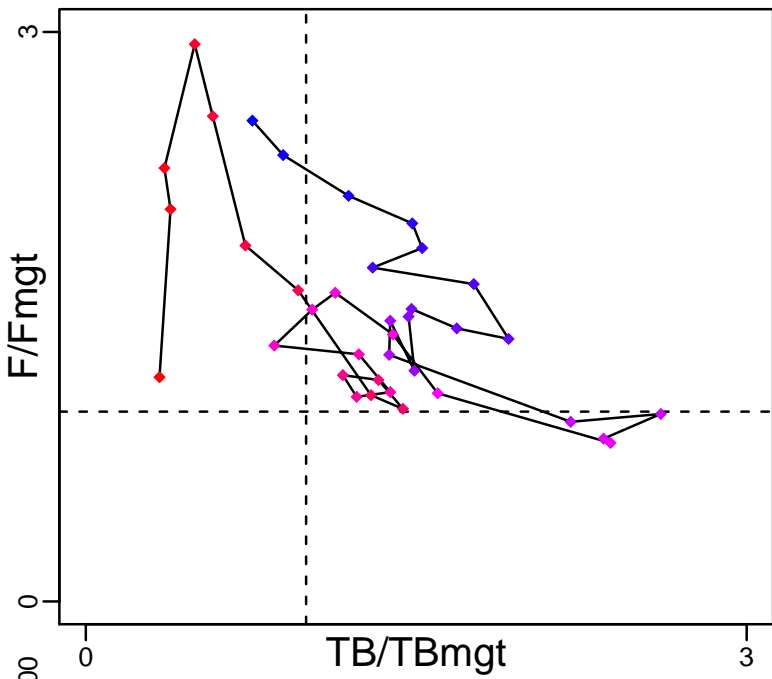
Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	WGHANSA-SARDPVIIIc-IXa-1978-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Southern Horse Mackerel, Anchovy and Sardine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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	TBmgt-MT	2016	368,400
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.23
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.33
<b>TBlim</b>	TBlim-MT	2015	135,000
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

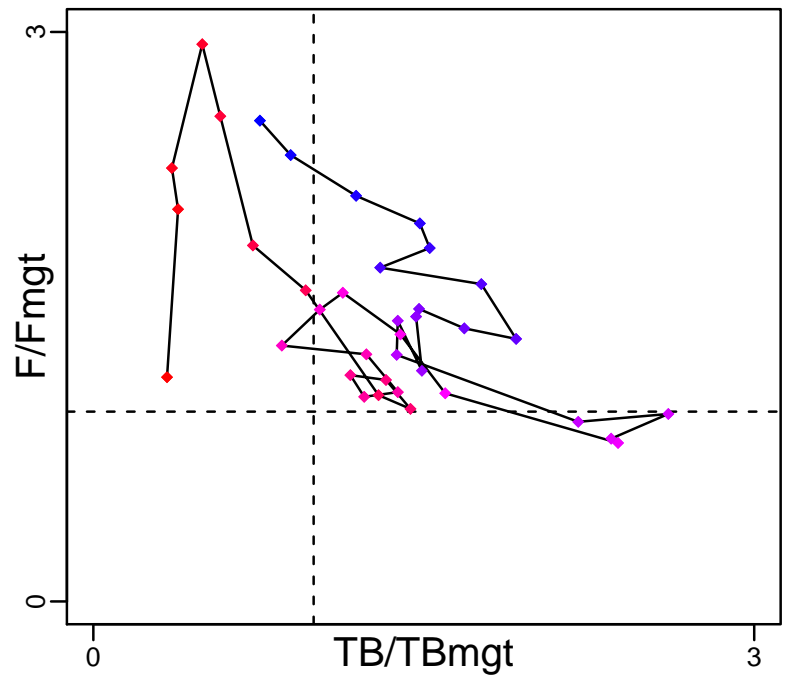
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	199,000	Both	-
<b>SSB</b>	SSB-MT	2011	174,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$4.01 \times 10^9$	-	0
<b>F</b>	F-1/yr	2016	0.145	-	2 to 5
<b>ER</b>	ER-calc-ratio	2016	0.125	-	-
<b>TC</b>	TC-MT	2016	21,000		
<b>TL</b>	TL-MT	2016	21,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2016	0.541		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.181		
<b>ER/ERmgt</b>	-	-	-		

European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

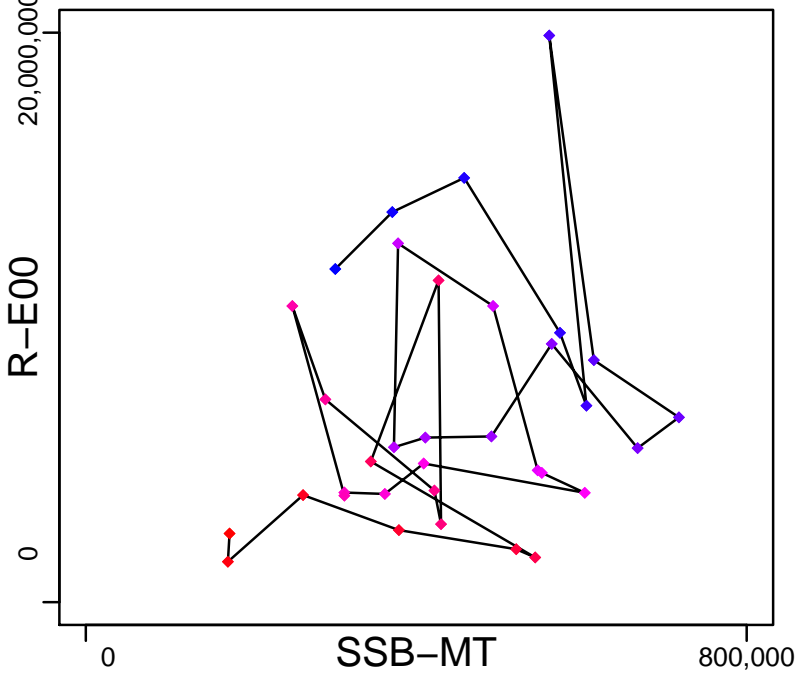
Kobe MSY<sub>pref</sub> (1978–2015–ICESIMP2016)



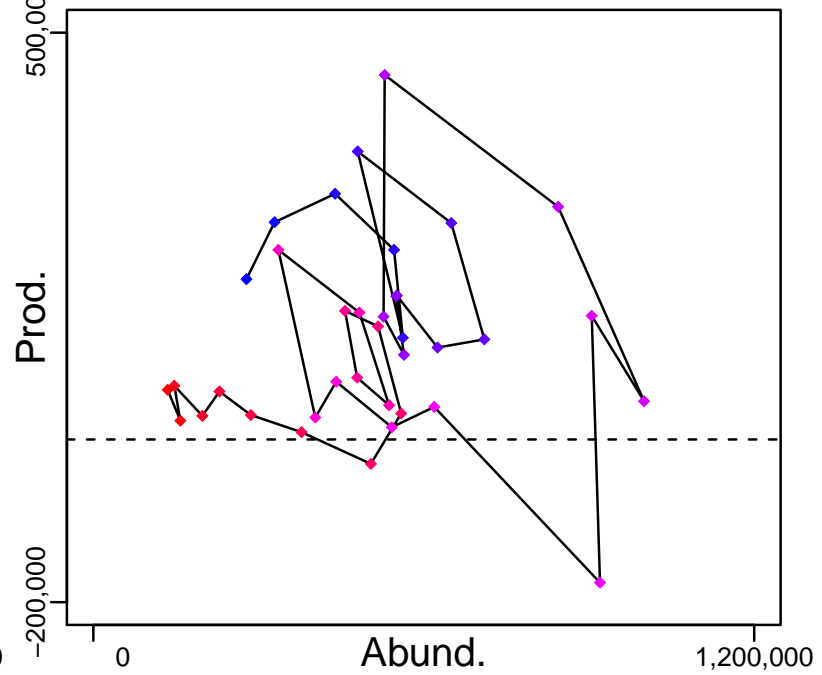
Kobe MGT<sub>pref</sub> (1978–2015–ICESIMP2016)



Spawner Recruit (1978–2011–NEUBAUER)



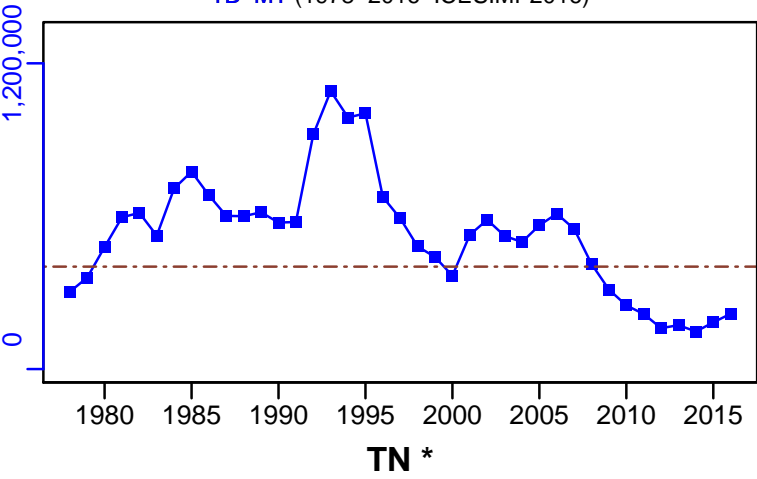
Production (1978–2016–ICESIMP2016)



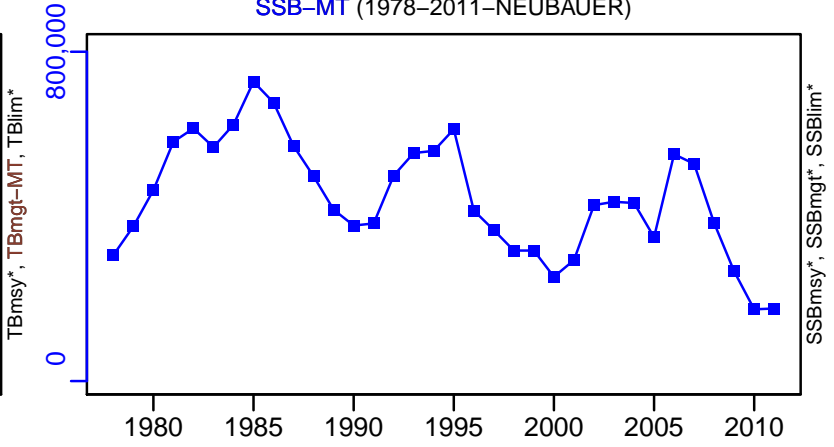
◆ Start Year ◆ End Year \* No Data

# European pilchard ICES VIIIc-IXa [SARDPVIIIc-IXa]

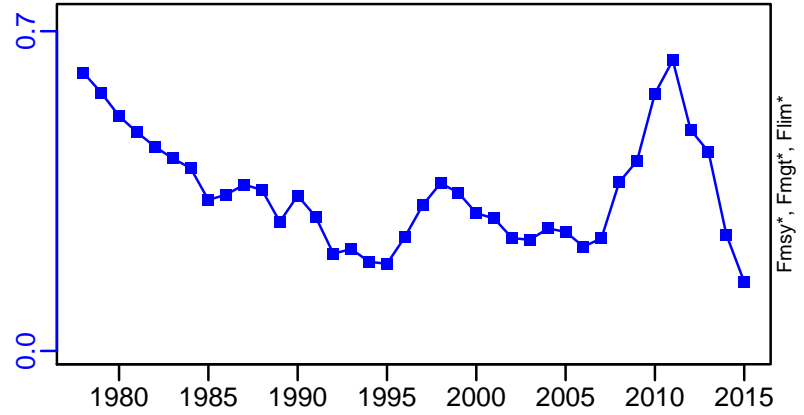
TB-MT (1978-2016-ICESIMP2016)



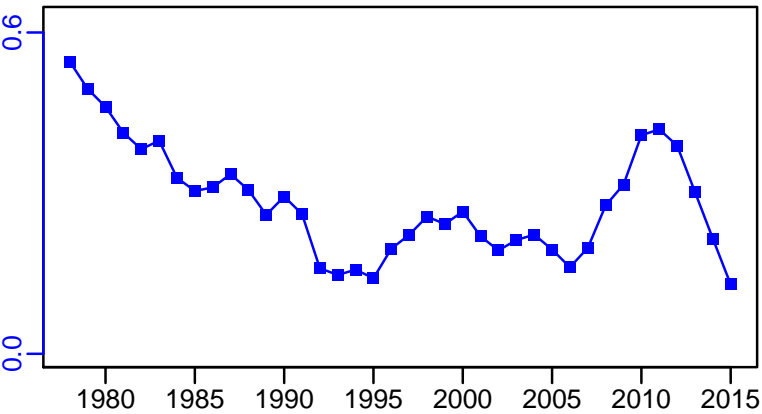
SSB-MT (1978-2011-NEUBAUER)



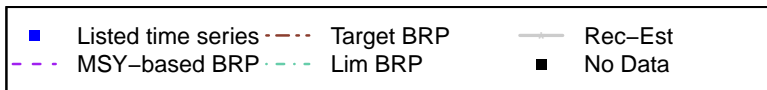
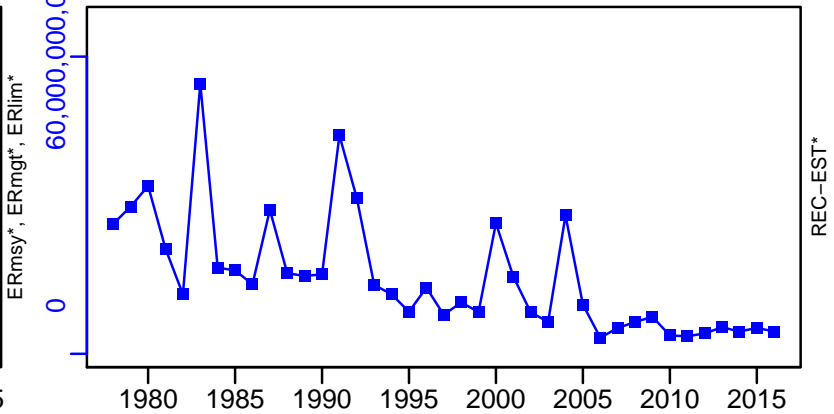
F-1/yr (1978-2016-ICESIMP2016)



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

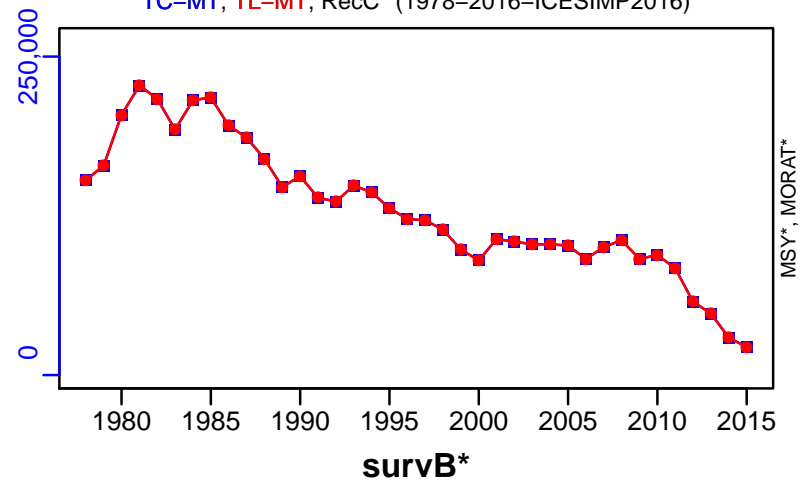


R-E00 (1978-2016-ICESIMP2016)

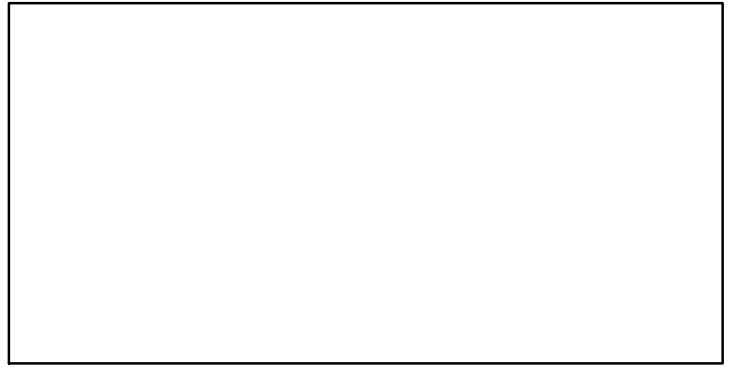


European pilchard ICES VIIIc–IXa [SARDPVIIIc–IXa]

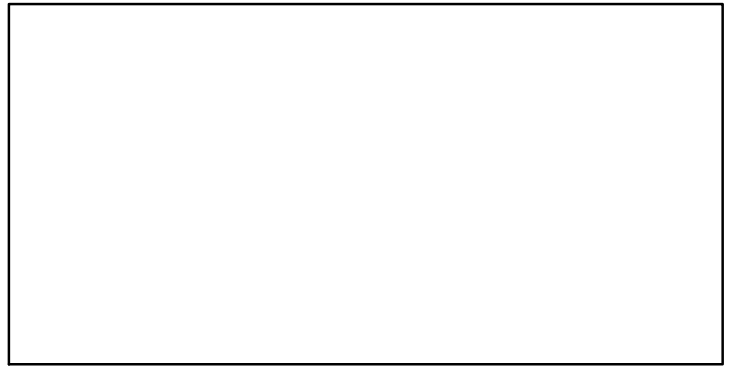
TC–MT, TL–MT, RecC\* (1978–2016–ICESIMP2016)



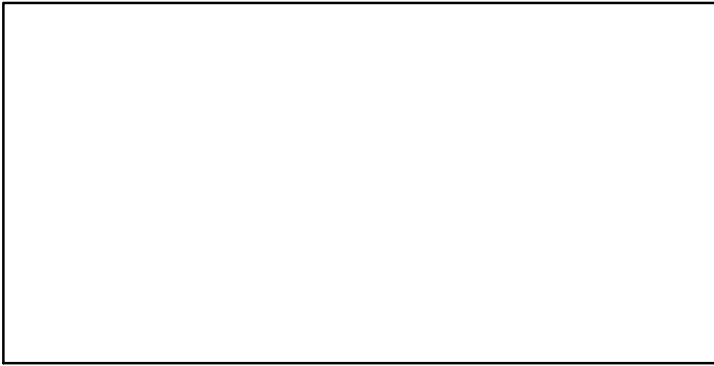
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

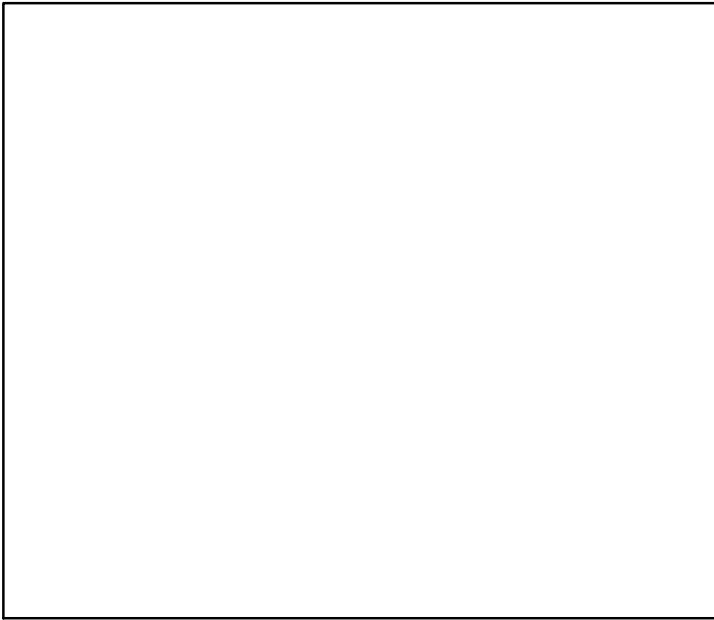
## Sand eel SA 1 [SEELNSSA1]

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

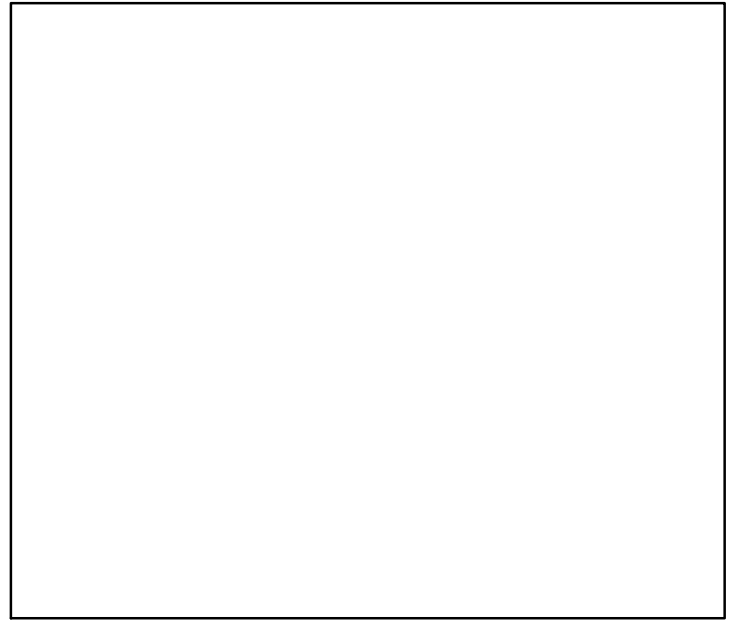
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	215,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	160,000
SSBlim	SSBlim-MT	2016	160,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	351,000	Both	-
SSB	SSB-MT	2016	238,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$1.95 \times 10^{11}$	-	0
F	F-1/yr	2016	0.384	-	1 to 2
ER	ER-calc-ratio	2015	0.217	-	-
TC	TC-MT	2016	162,000		
TL	TL-MT	2016	162,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.108		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

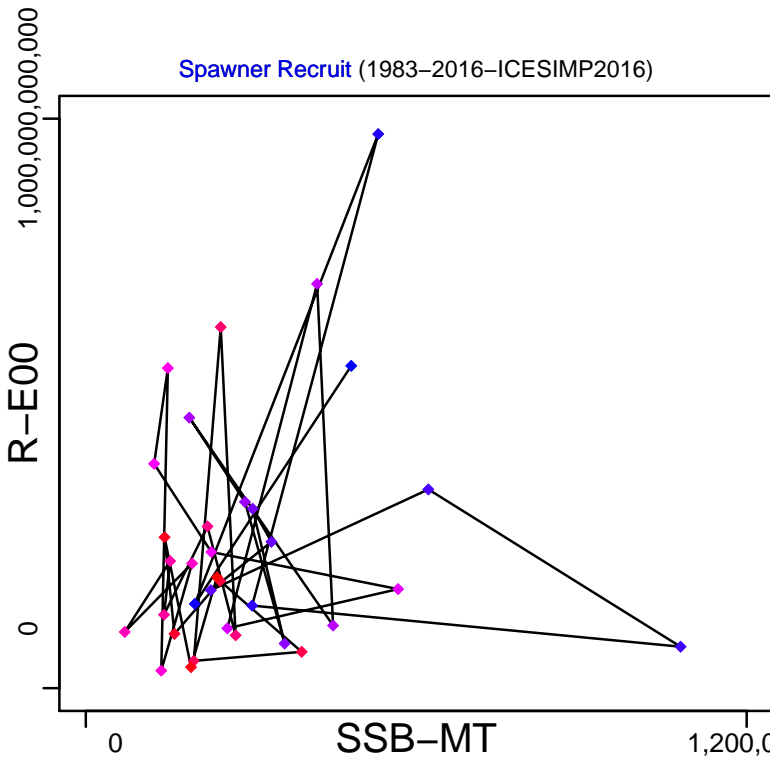
Kobe MSY\*



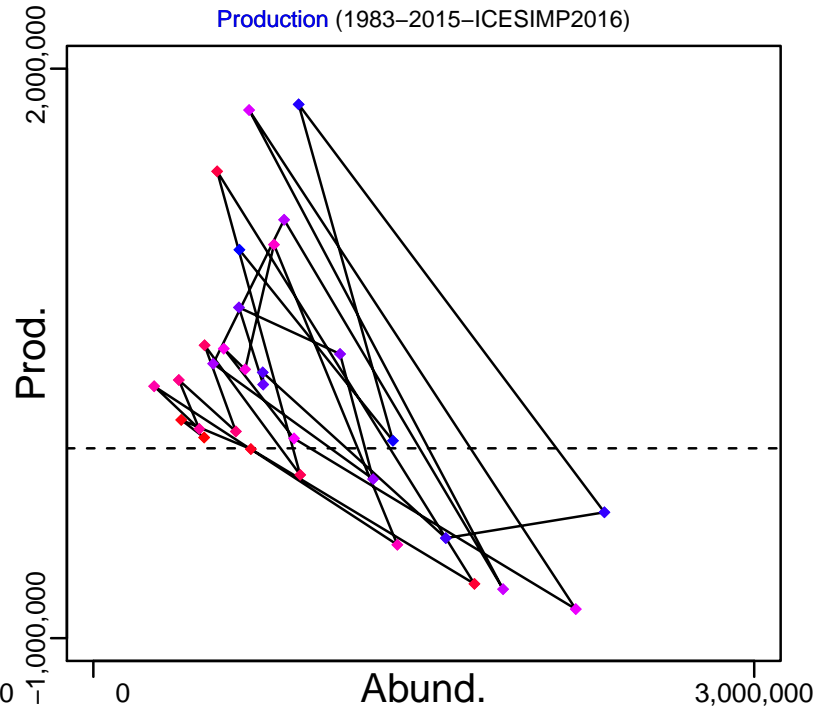
Kobe MGT\*



Spawner Recruit (1983–2016–ICESIMP2016)

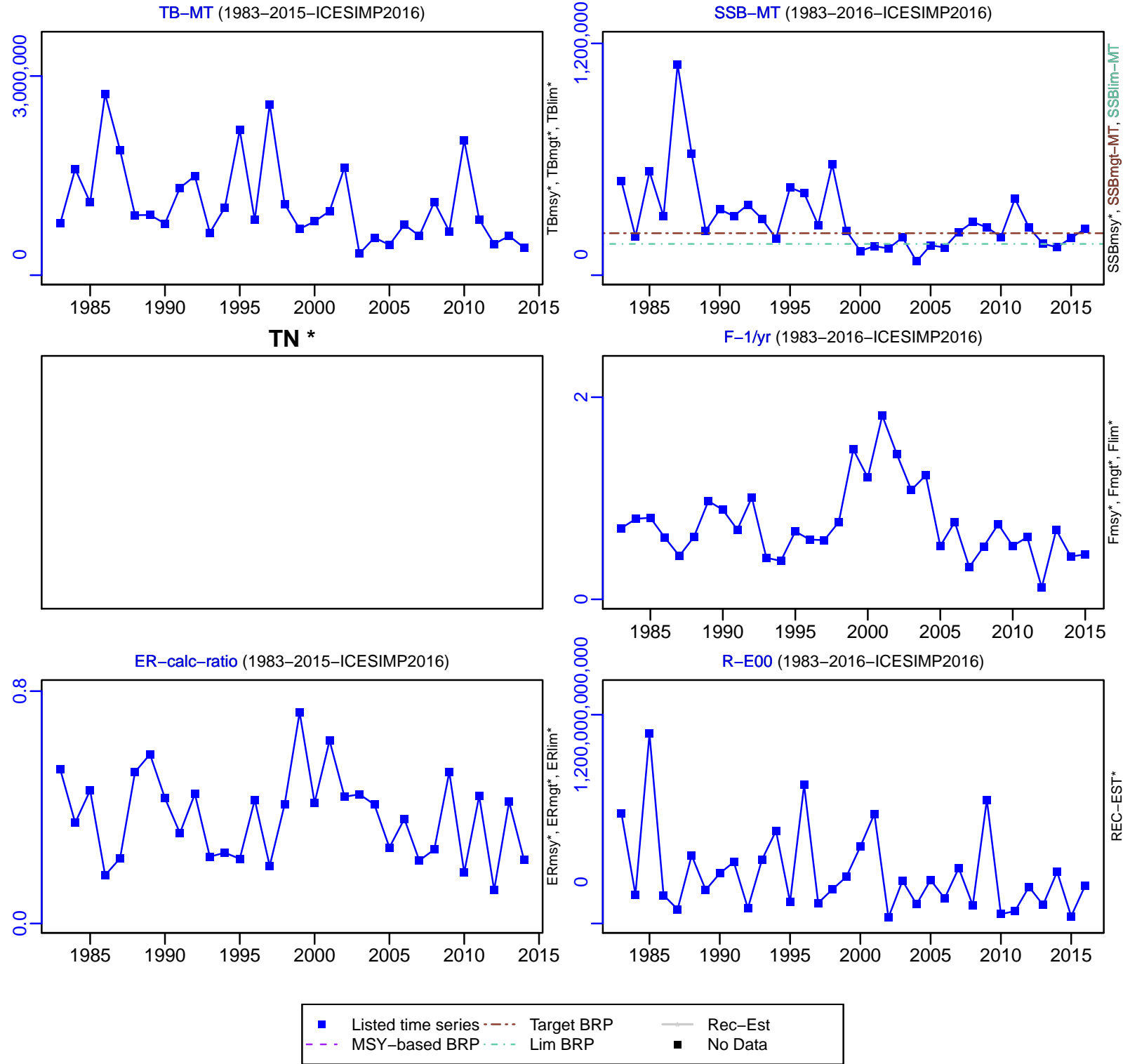


Production (1983–2015–ICESIMP2016)



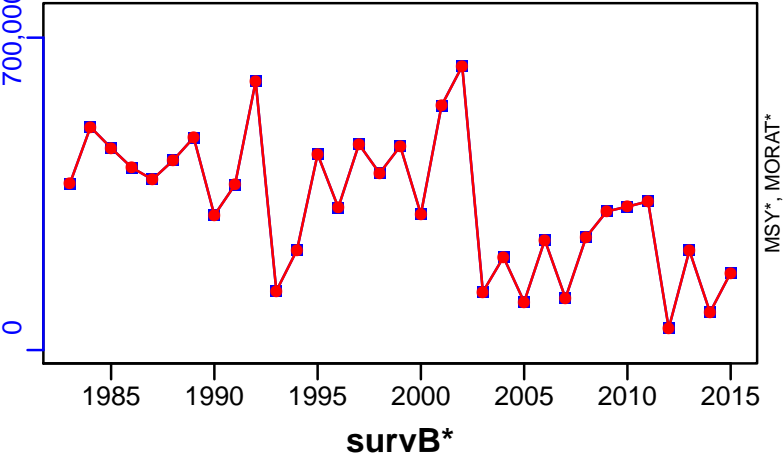
◆ Start Year ◆ End Year \* No Data

# Sand eel SA 1 [SEELNSSA1]

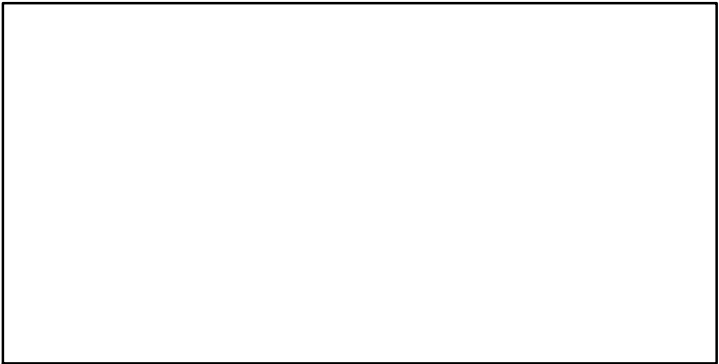


Sand eel SA 1 [SEELNSSA1]

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



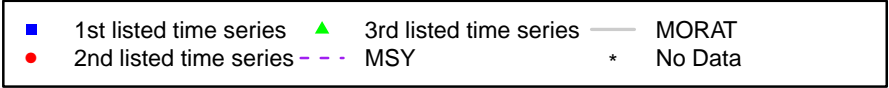
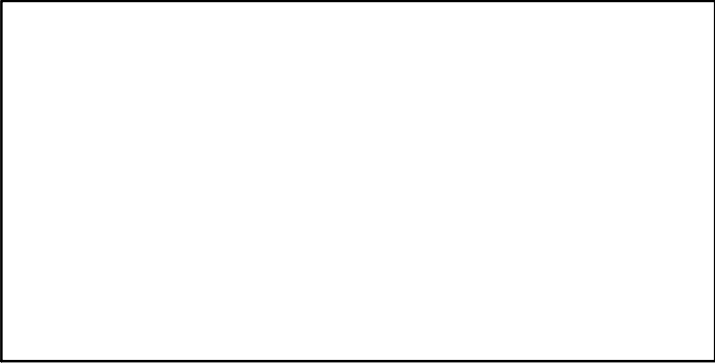
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





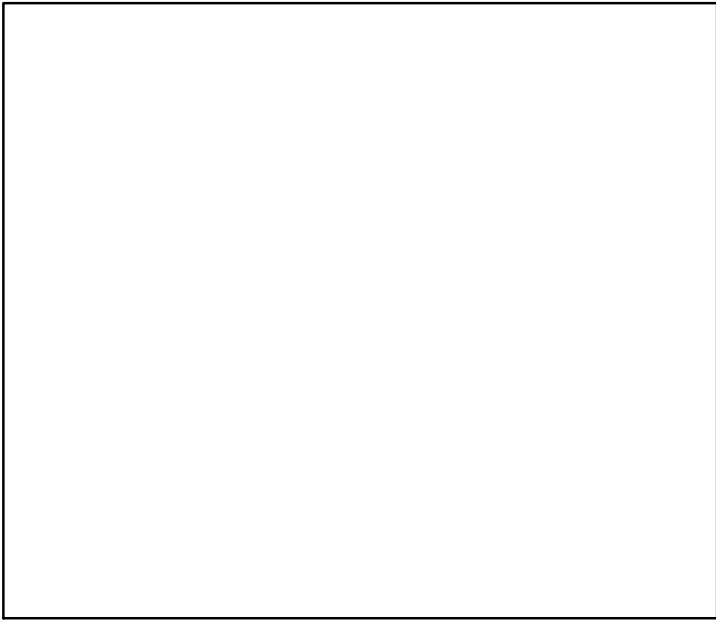
## Sand eel SA 2 [SEELNSSA2]

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

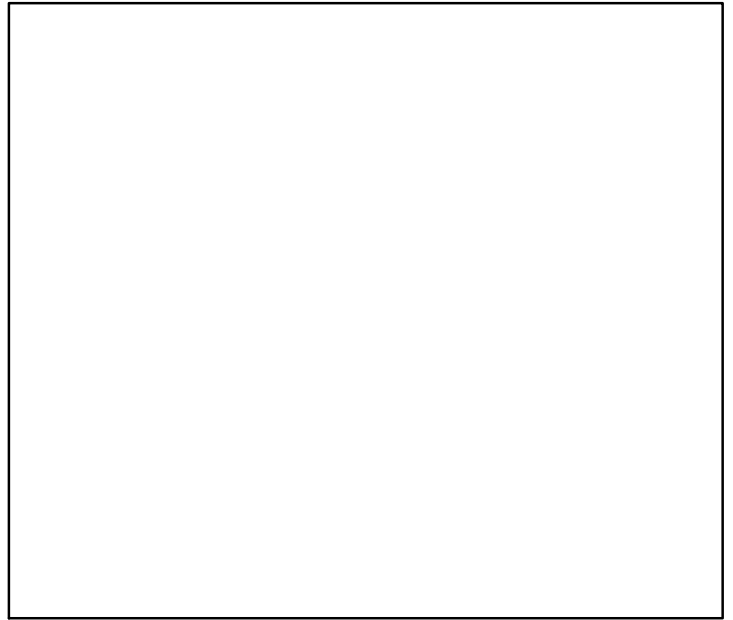
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	$1 \times 10^5$
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	70,000
SSBlim	SSBlim-MT	2016	70,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	174,000	Both	-
SSB	SSB-MT	2016	76,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$3.92 \times 10^{10}$	-	0
F	F-1/yr	2016	0.175	-	1 to 2
ER	ER-calc-ratio	2015	0.05	-	-
TC	TC-MT	2016	21,000		
TL	TL-MT	2016	21,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.76		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

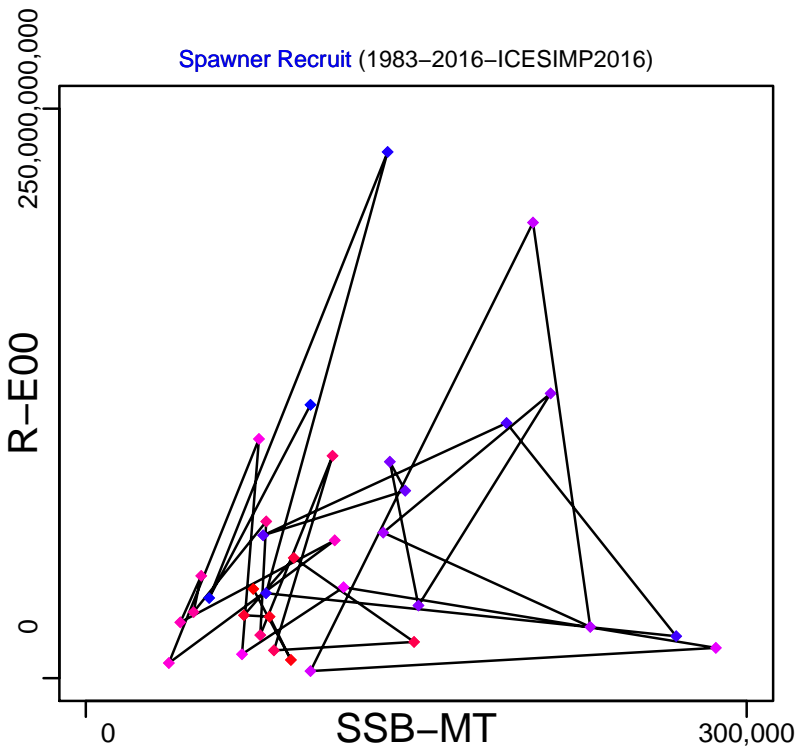
Kobe MSY\*



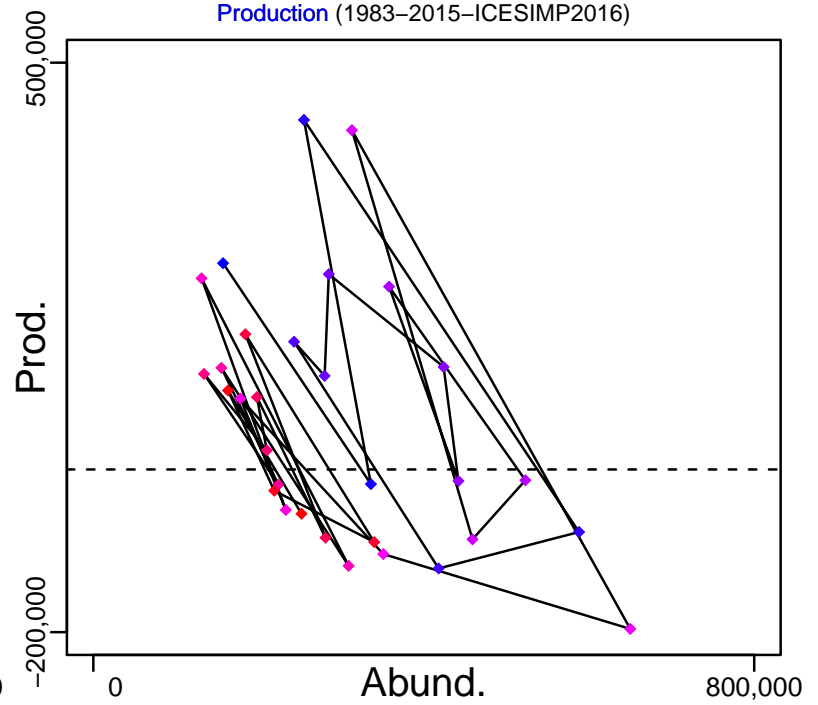
Kobe MGT\*



Spawner Recruit (1983–2016–ICESIMP2016)



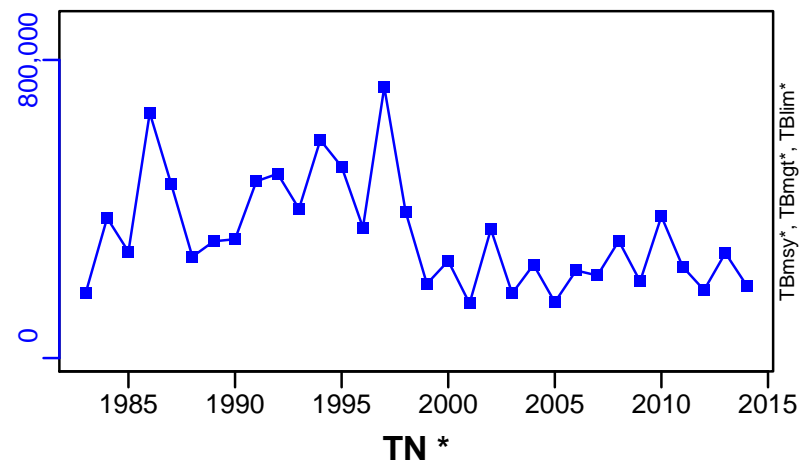
Production (1983–2015–ICESIMP2016)



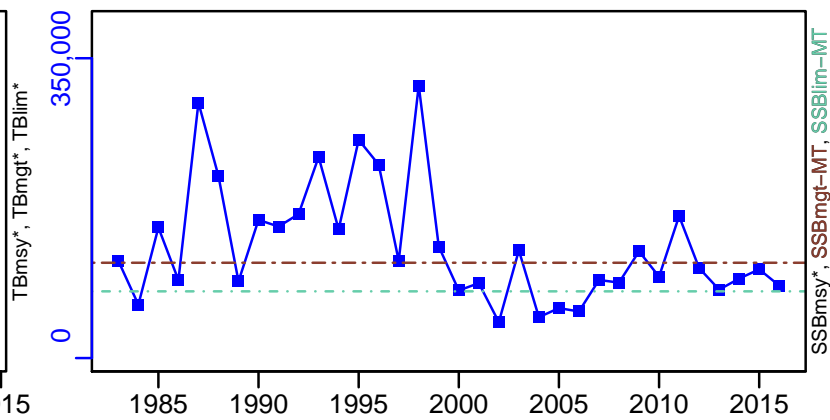
◆ Start Year ◆ End Year \* No Data

# Sand eel SA 2 [SEELNSSA2]

TB-MT (1983–2015–ICESIMP2016)



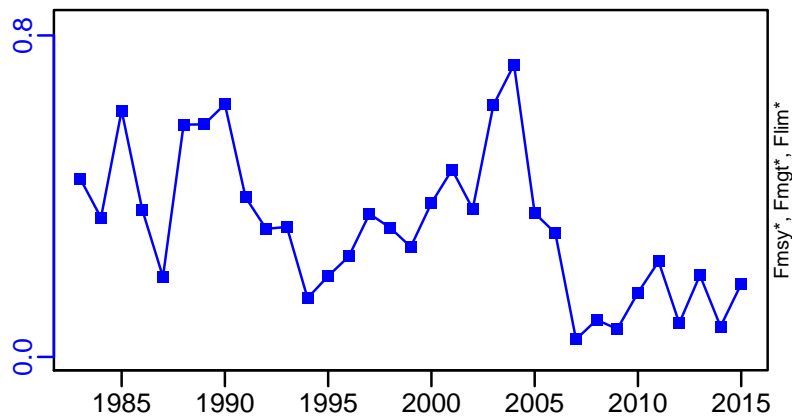
SSB-MT (1983–2016–ICESIMP2016)



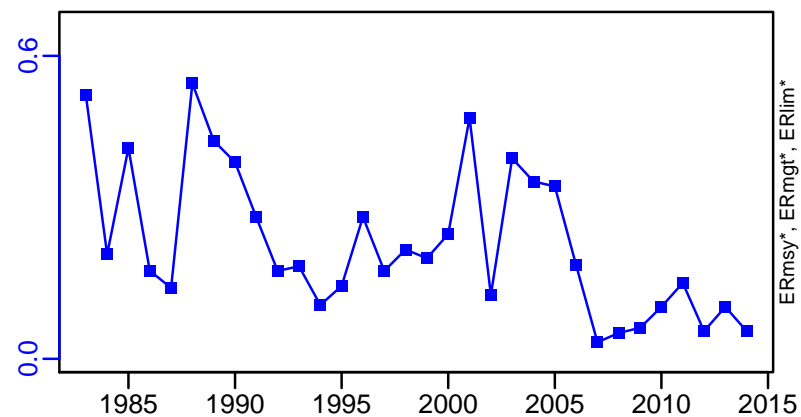
TN \*



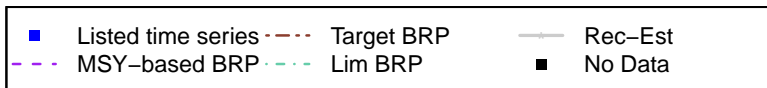
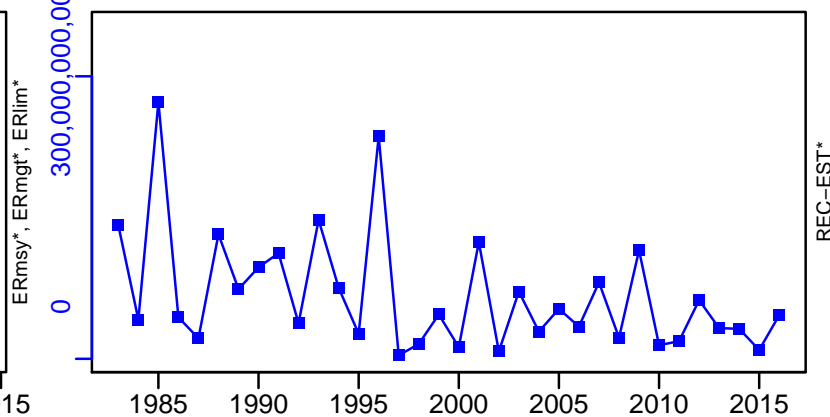
F-1/yr (1983–2016–ICESIMP2016)



ER-calc-ratio (1983–2015–ICESIMP2016)

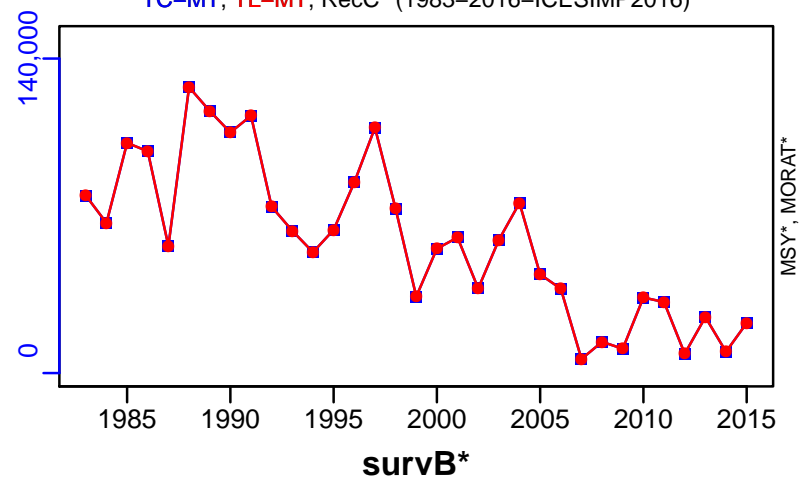


R-E00 (1983–2016–ICESIMP2016)

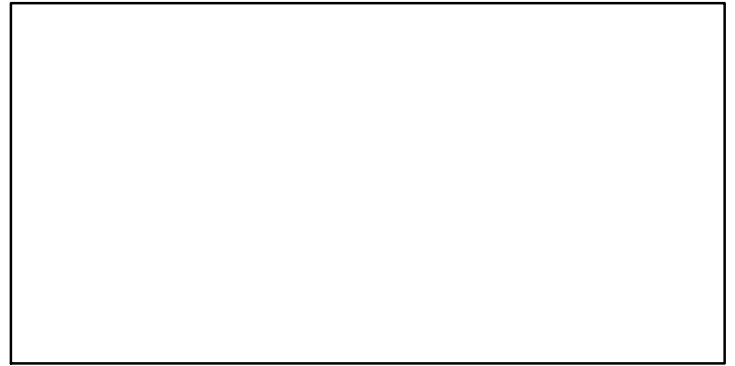


Sand eel SA 2 [SEELNSSA2]

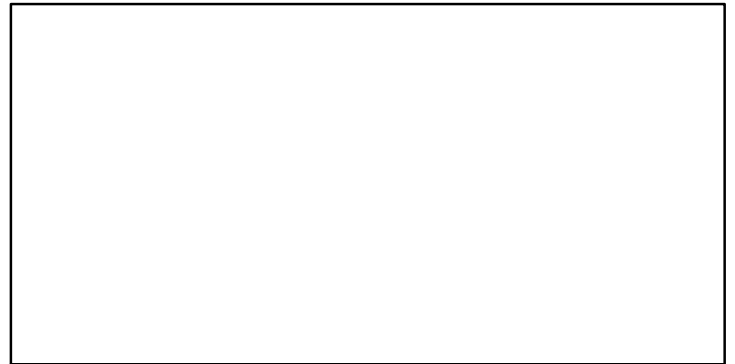
TC-MT, TL-MT, RecC\* (1983–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

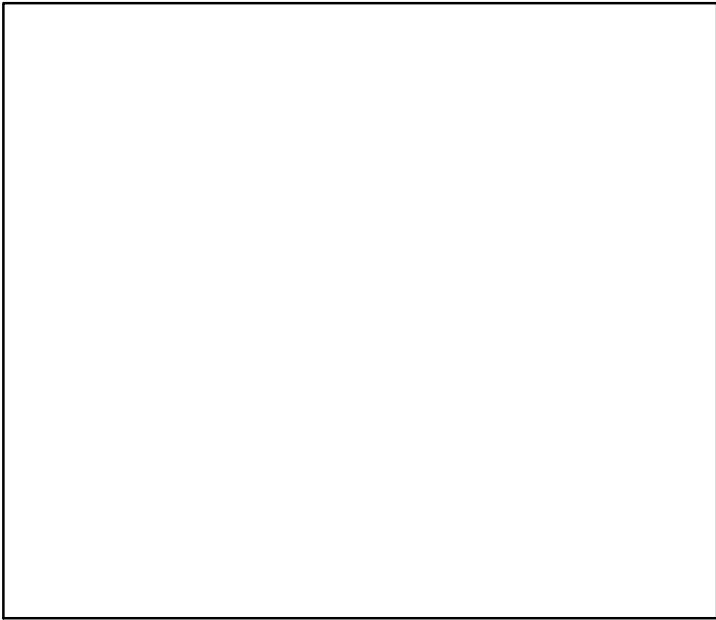
## Sand eel SA 3 [SEELNSSA3]

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

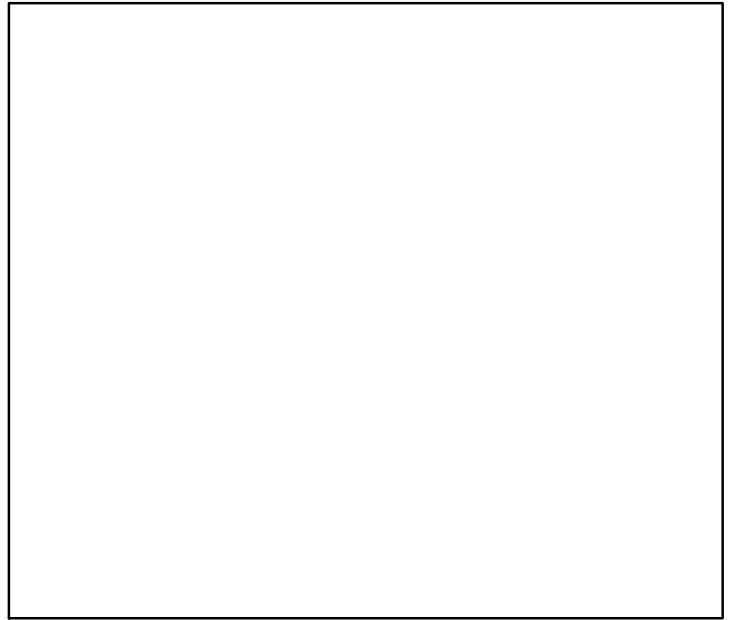
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	195,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	TBlim-MT	2011	$1 \times 10^5$
SSBlim	SSBlim-MT	2016	$1 \times 10^5$
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	535,000	Both	-
SSB	SSB-MT	2016	379,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$9.25 \times 10^{10}$	-	0
F	F-1/yr	2016	0.475	-	1 to 2
ER	ER-calc-ratio	2015	0.27	-	-
TC	TC-MT	2016	119,000		
TL	TL-MT	2016	119,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.944		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

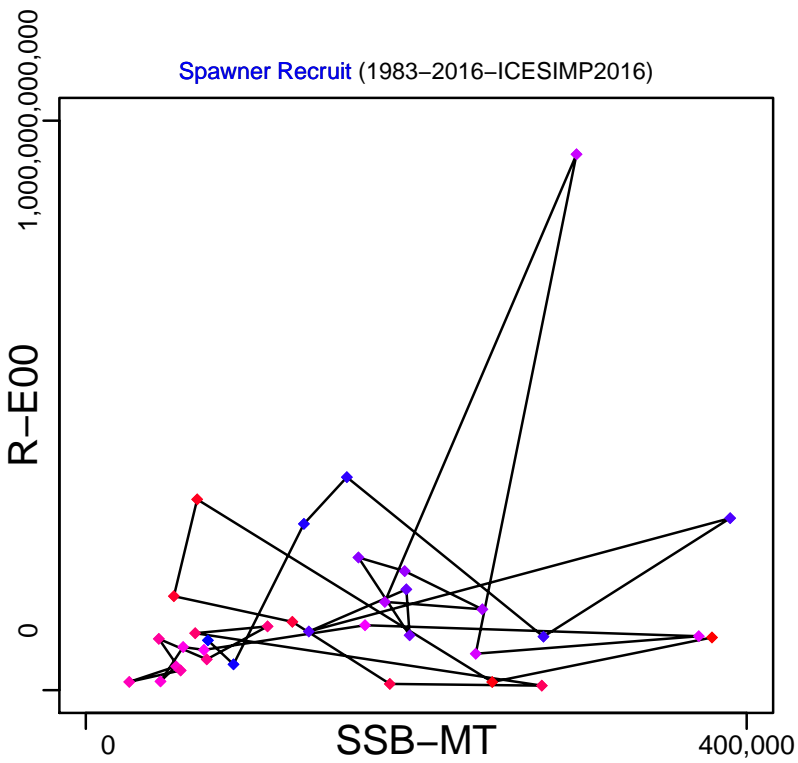
Kobe MSY\*



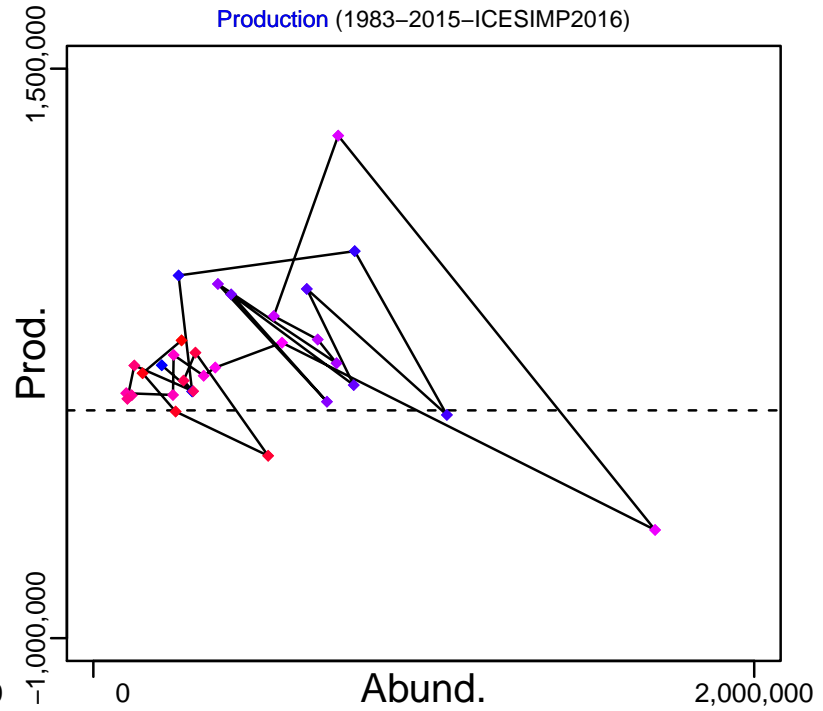
Kobe MGT\*



Spawner Recruit (1983–2016–ICESIMP2016)

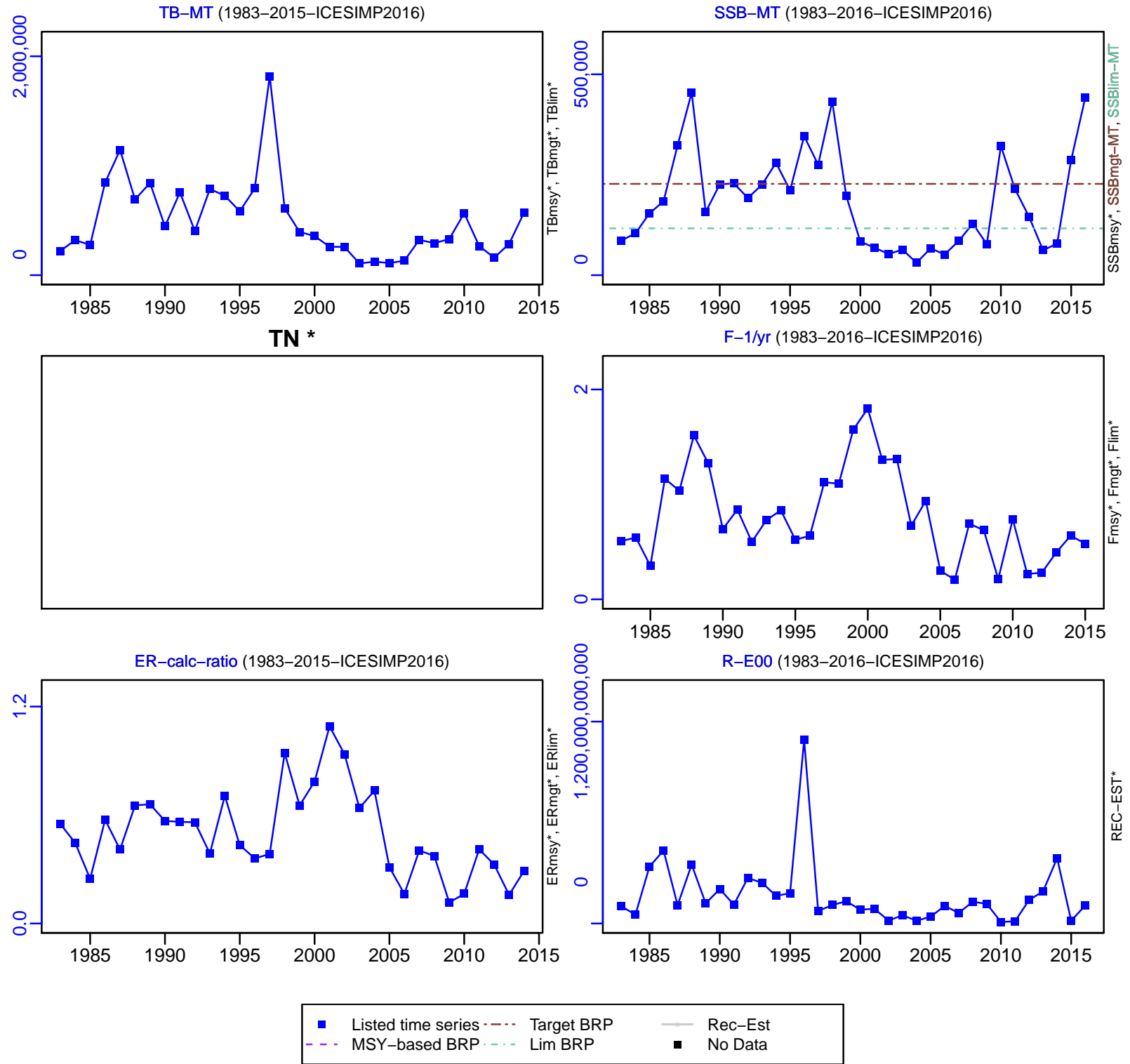


Production (1983–2015–ICESIMP2016)



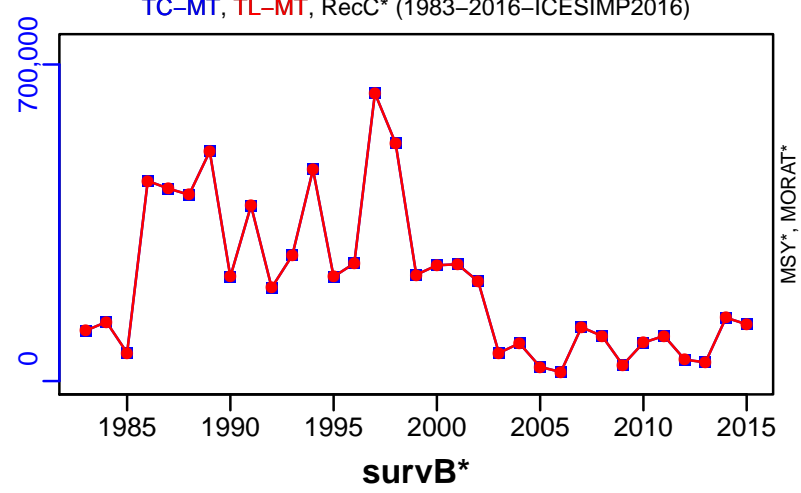
◆ Start Year ◆ End Year \* No Data

# Sand eel SA 3 [SEELNSSA3]

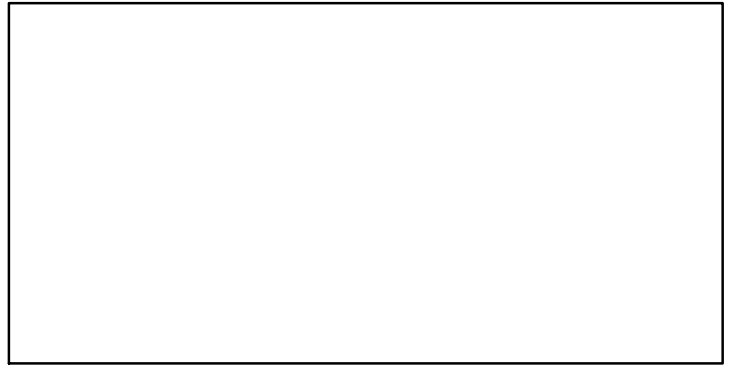


Sand eel SA 3 [SEELNSSA3]

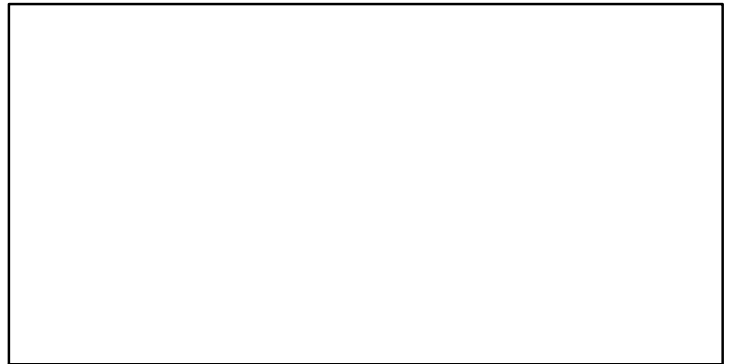
TC-MT, TL-MT, RecC\* (1983–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

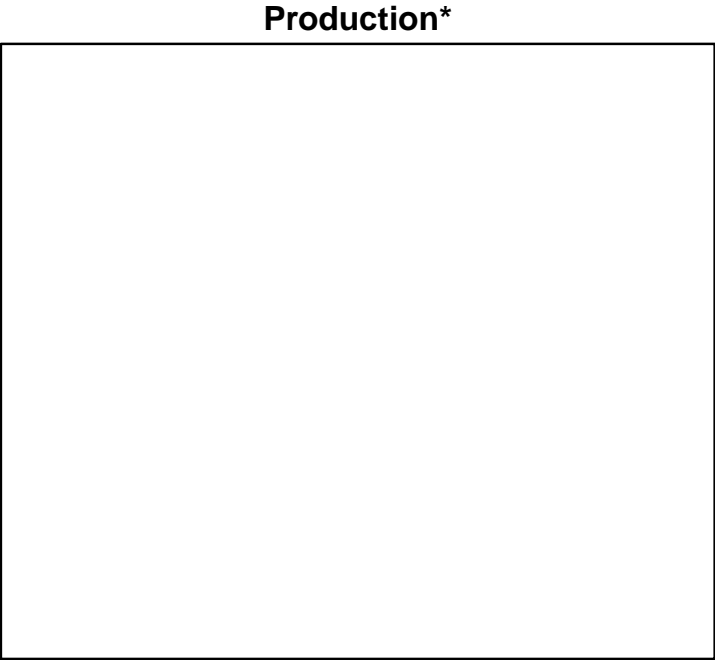
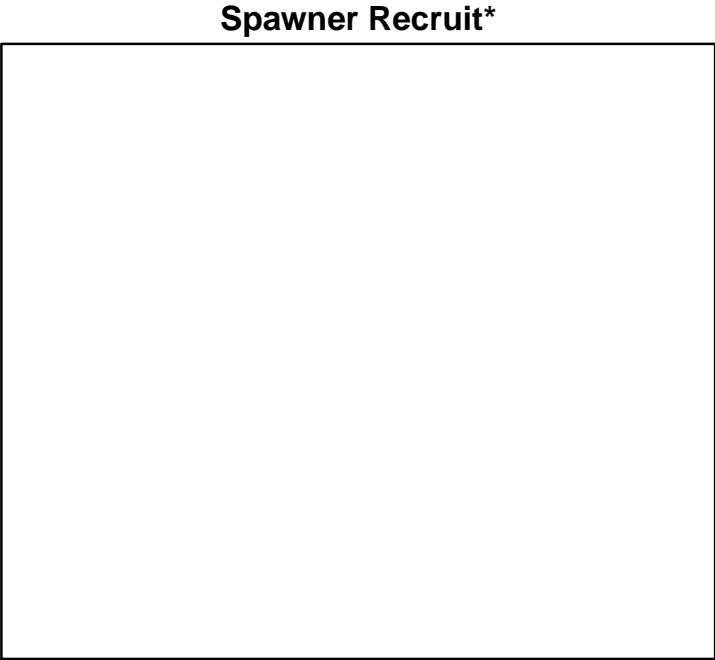
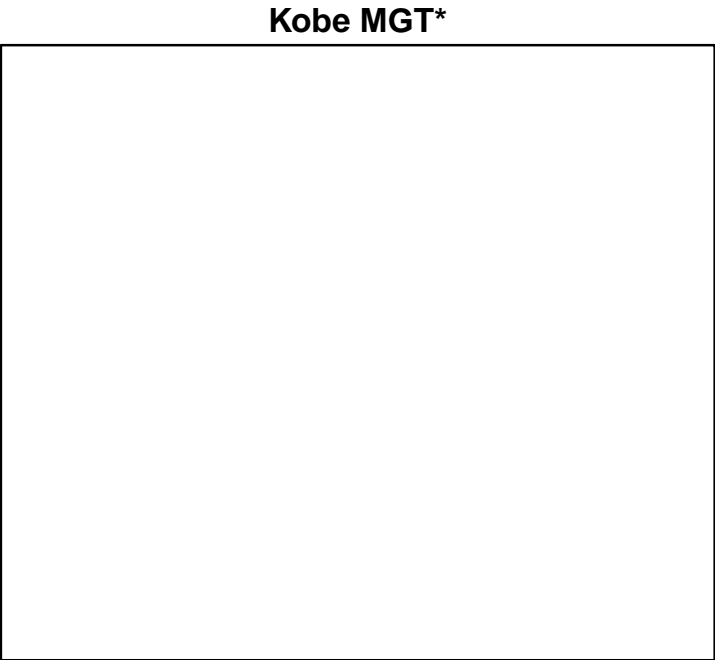
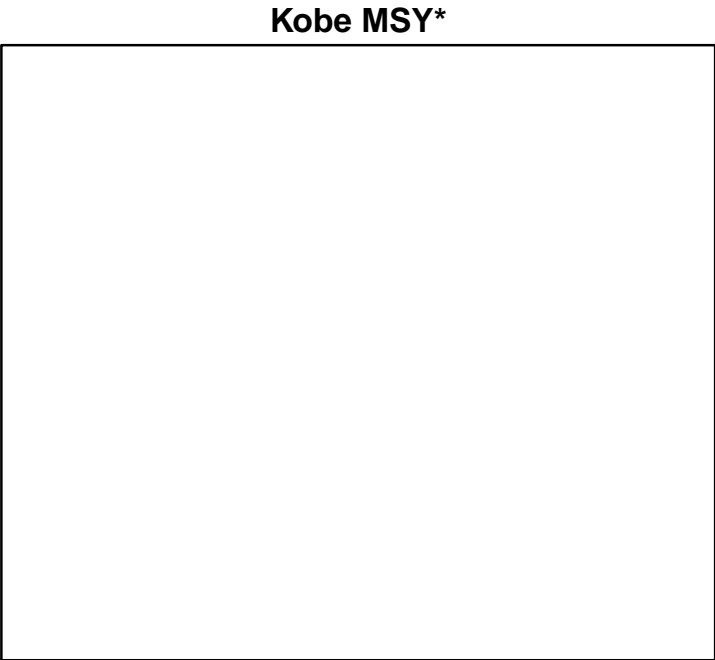


## Sand eel SA 5 [SEELNSSA5]

Metadata	
<b>Scientific Name</b>	Ammodytes marinus
<b>Current Assess ID</b>	HAWG-SEELNSSA5-1983-2015-ICESIMP2016
<b>Area</b>	Sandeel Area 5
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	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 \*



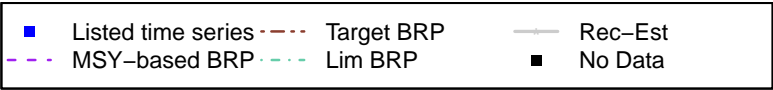
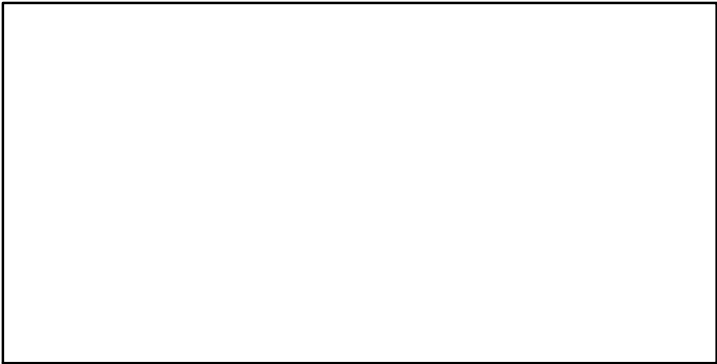
F\*



ER\*

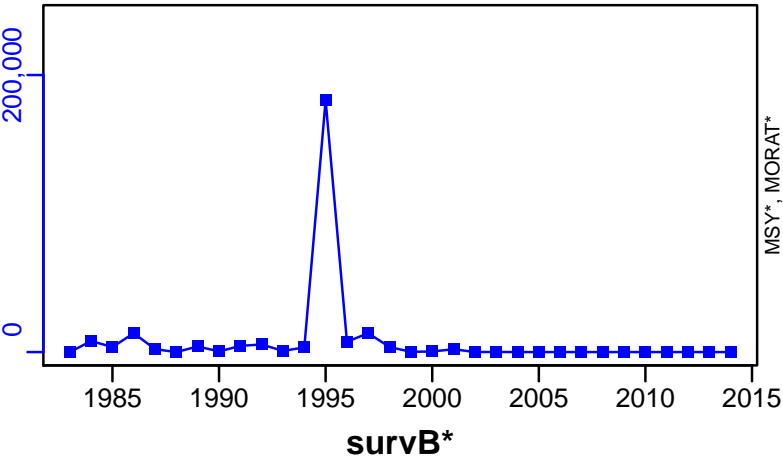


Recruits\*



Sand eel SA 5 [SEELNSSA5]

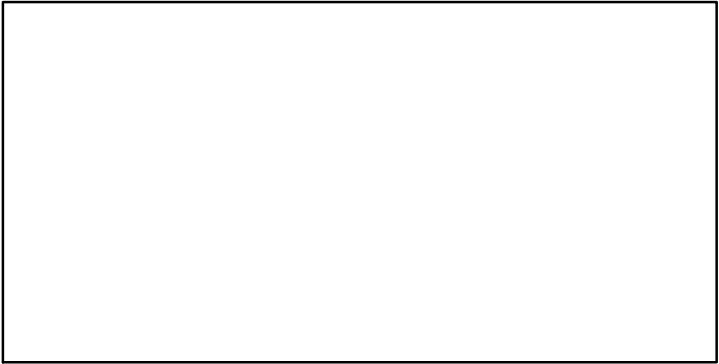
TC-MT, TL\*, RecC\* (1983-2015-ICESIMP2016)



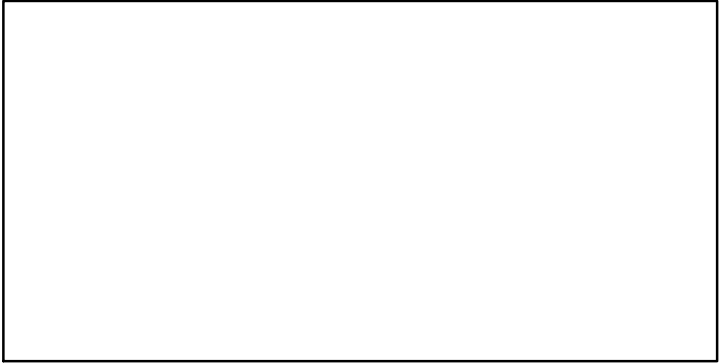
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

- - MSY

— MORAT

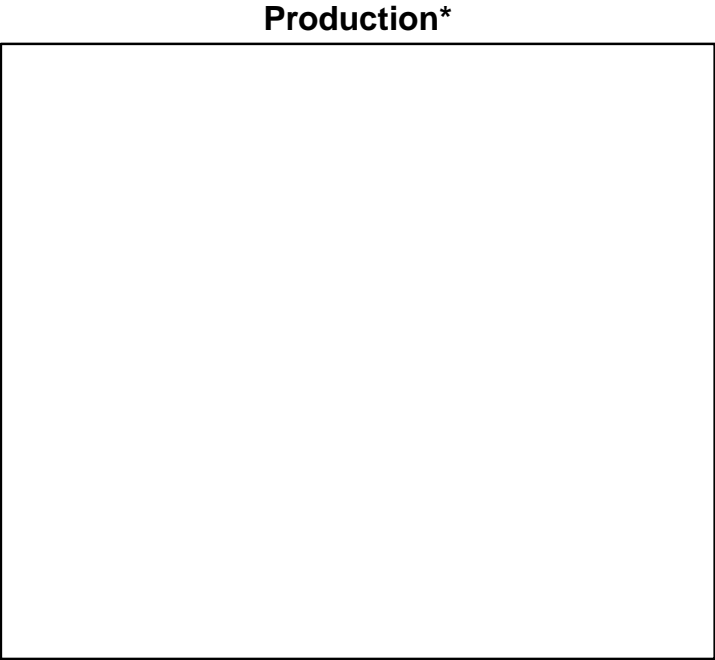
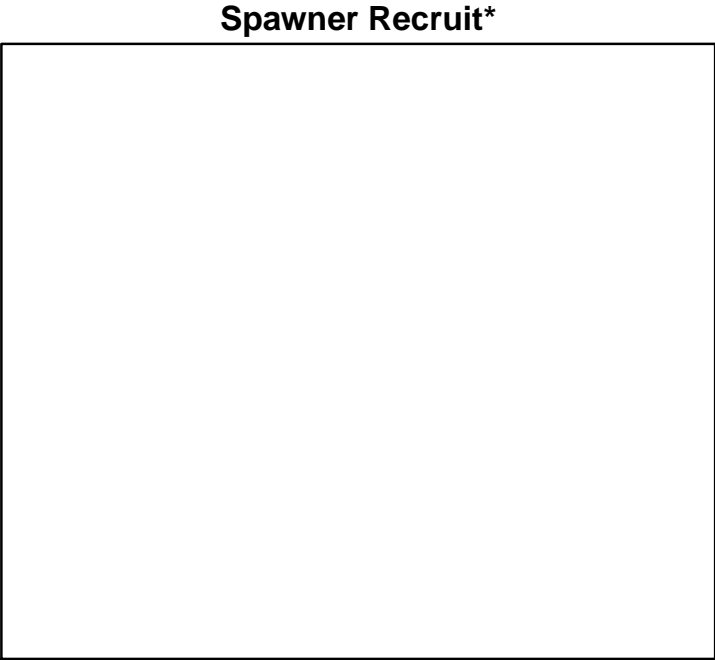
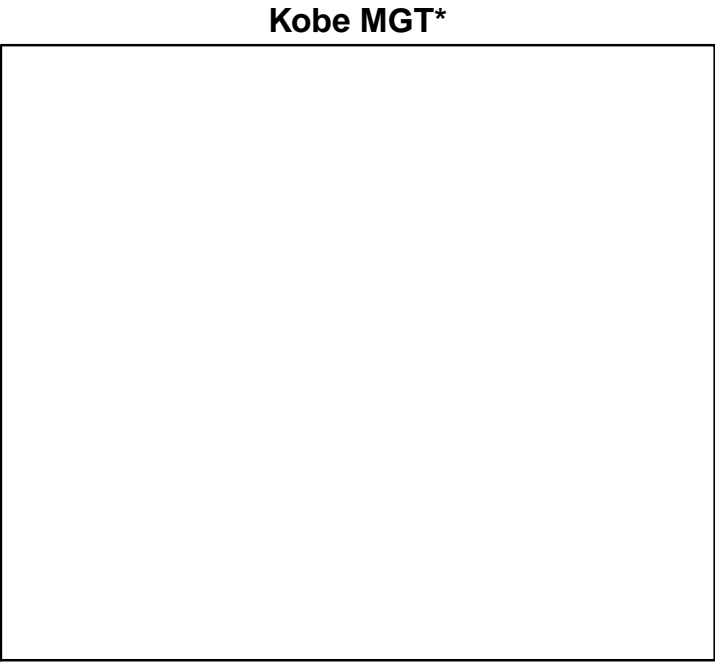
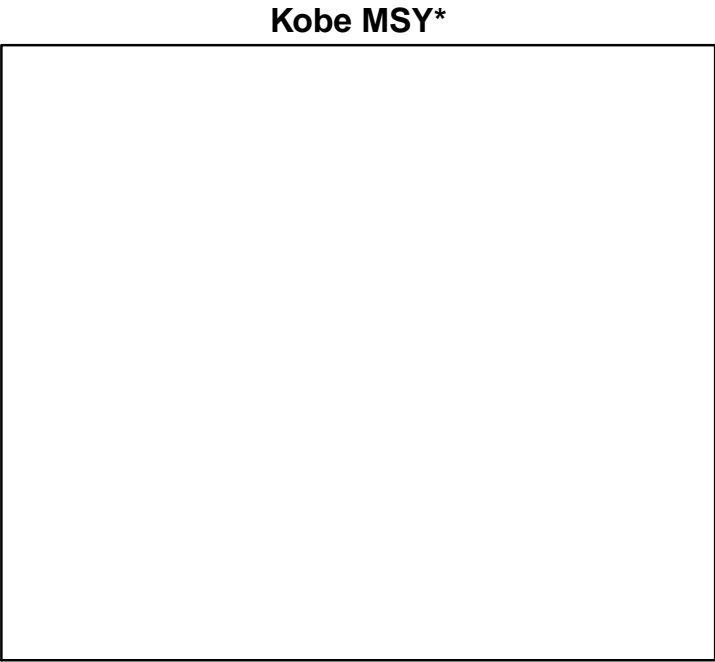
\* No Data

## Sand eel SA 6 [SEELNSSA6]

Metadata	
<b>Scientific Name</b>	Ammodytes marinus
<b>Current Assess ID</b>	HAWG-SEELNSSA6-1983-2015-ICESIMP2016
<b>Area</b>	Sandeel Area 6
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	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\*

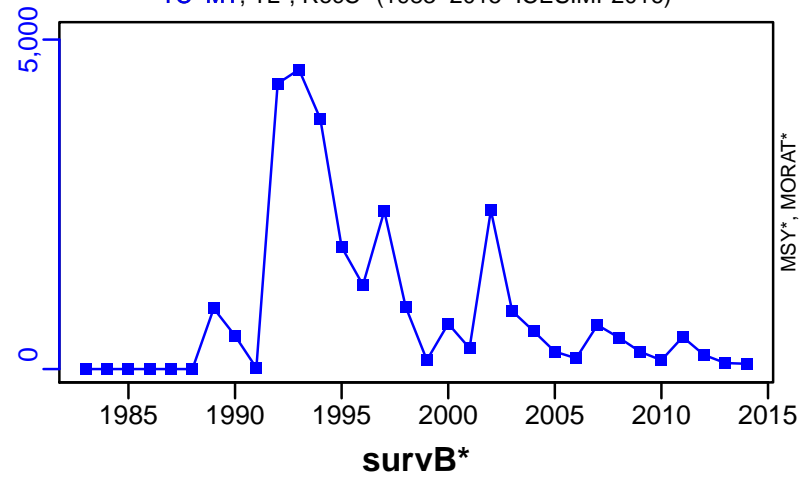


Recruits\*

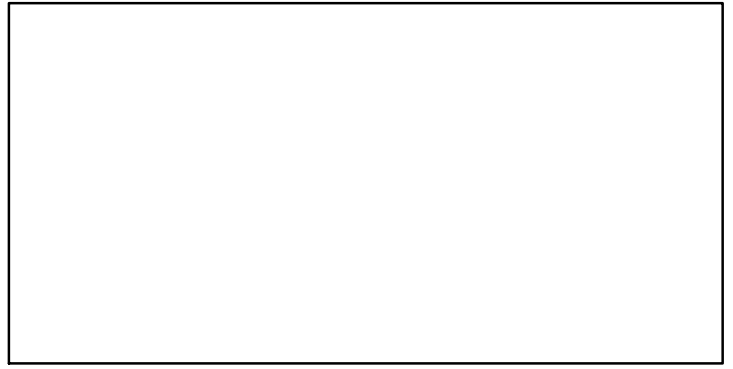


Sand eel SA 6 [SEELNSSA6]

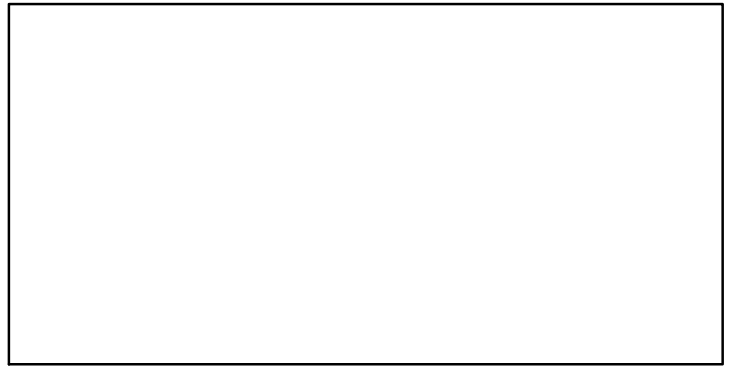
TC-MT, TL\*, RecC\* (1983–2015–ICESIMP2016)



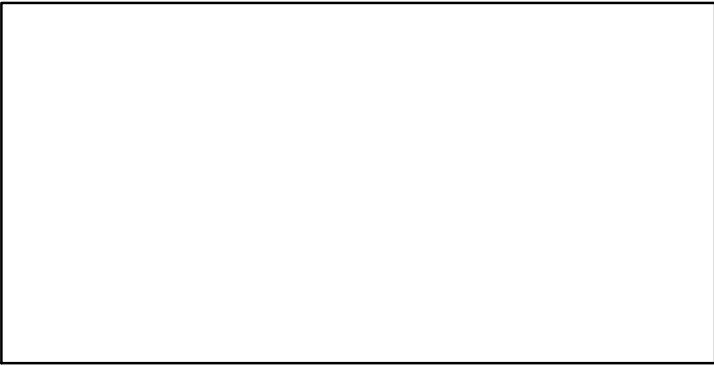
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

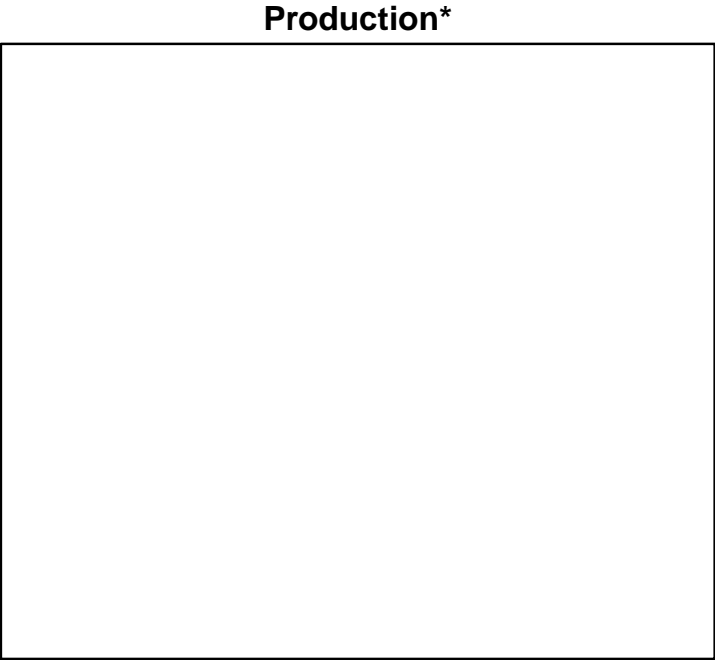
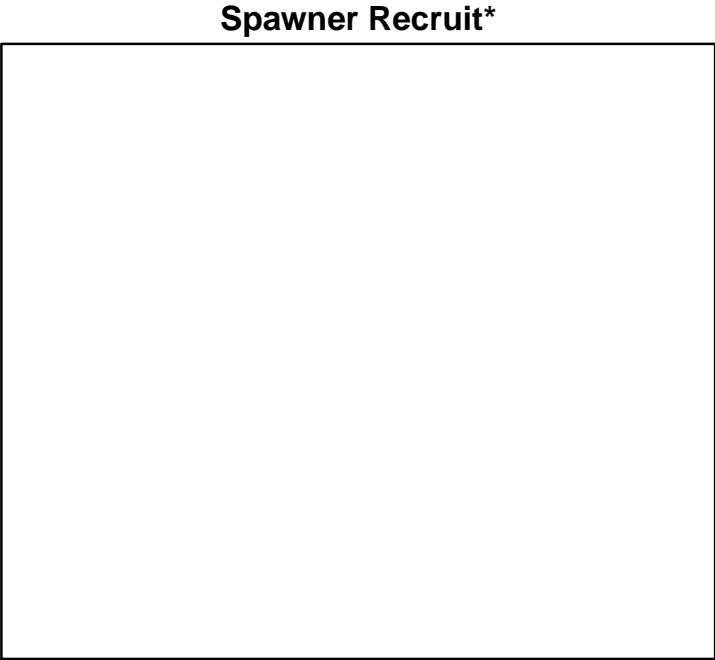
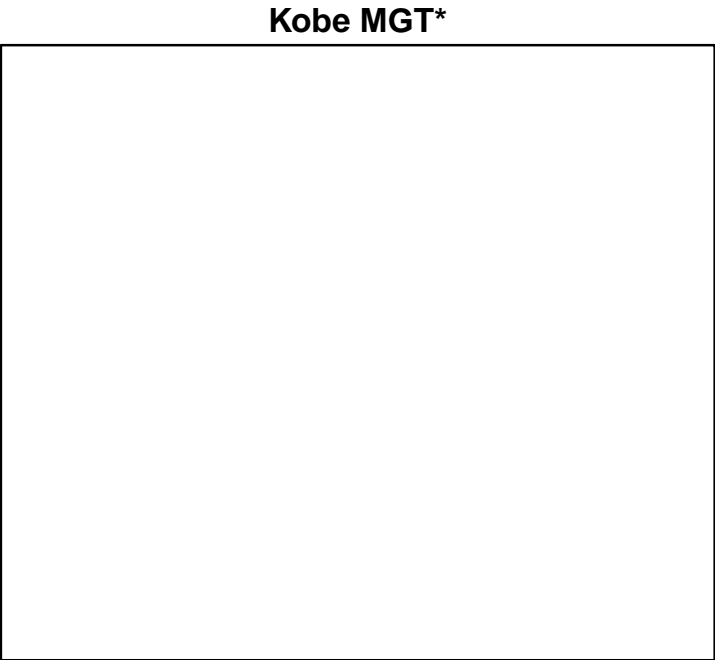
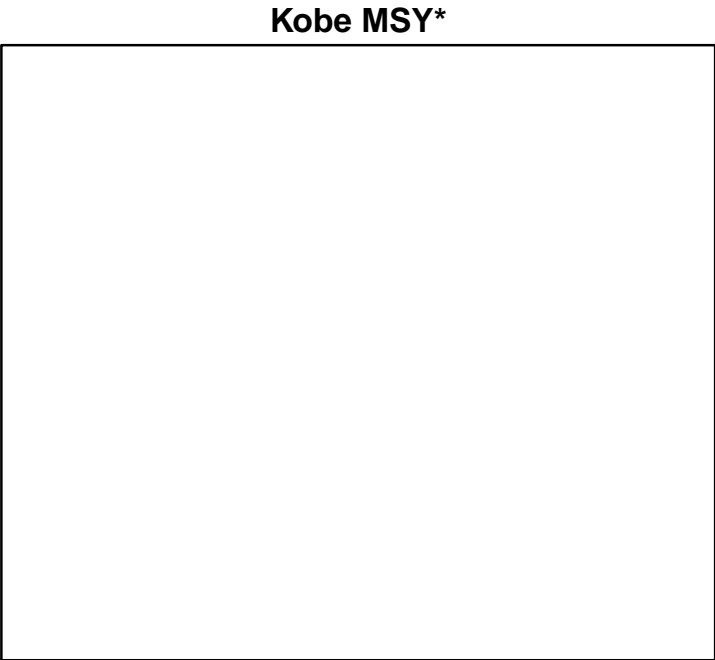


## Sand eel SA 7 [SEELNSSA7]

Metadata	
<b>Scientific Name</b>	Ammodytes marinus
<b>Current Assess ID</b>	HAWG-SEELNSSA7-1983-2015-ICESIMP2016
<b>Area</b>	Sandeel Area 7
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	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 \*



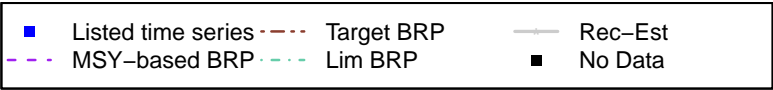
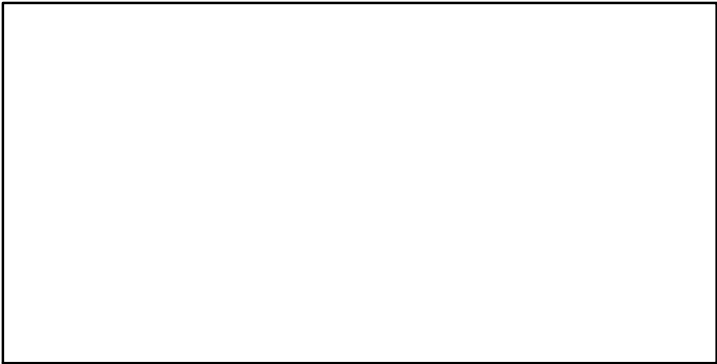
F\*



ER\*

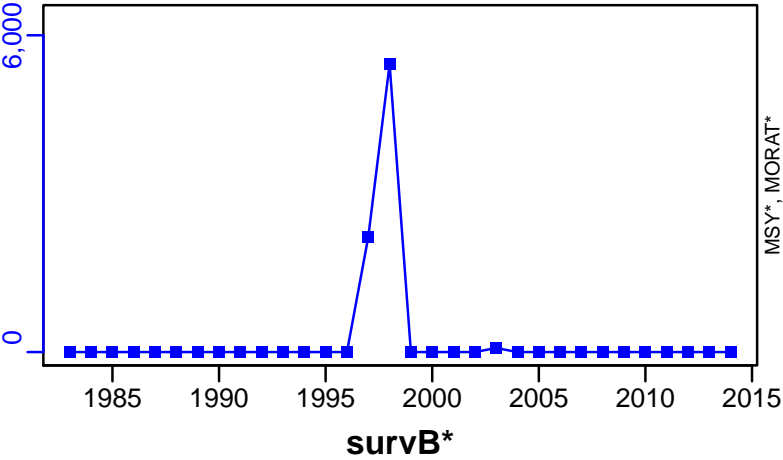


Recruits\*



Sand eel SA 7 [SEELNSSA7]

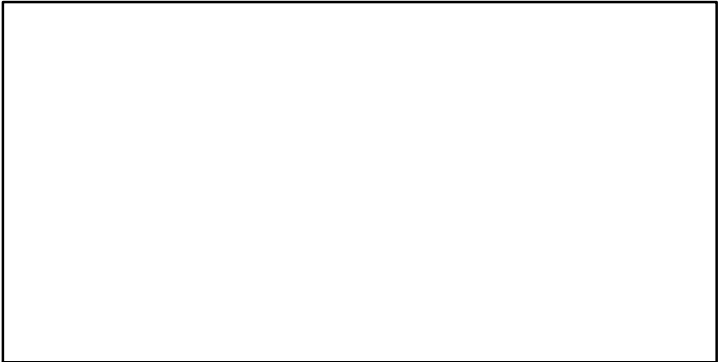
TC-MT, TL\*, RecC\* (1983-2015-ICESIMP2016)



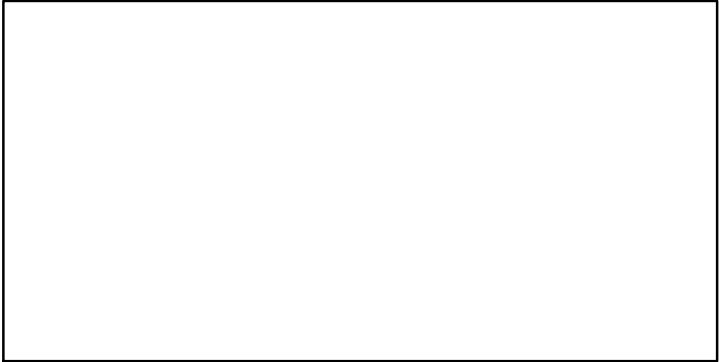
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



■

1st listed time series

●

2nd listed time series

▲

3rd listed time series

- - -

MSY

—

MORAT

\*

No Data

## Common sole Celtic Sea [SOLECS]

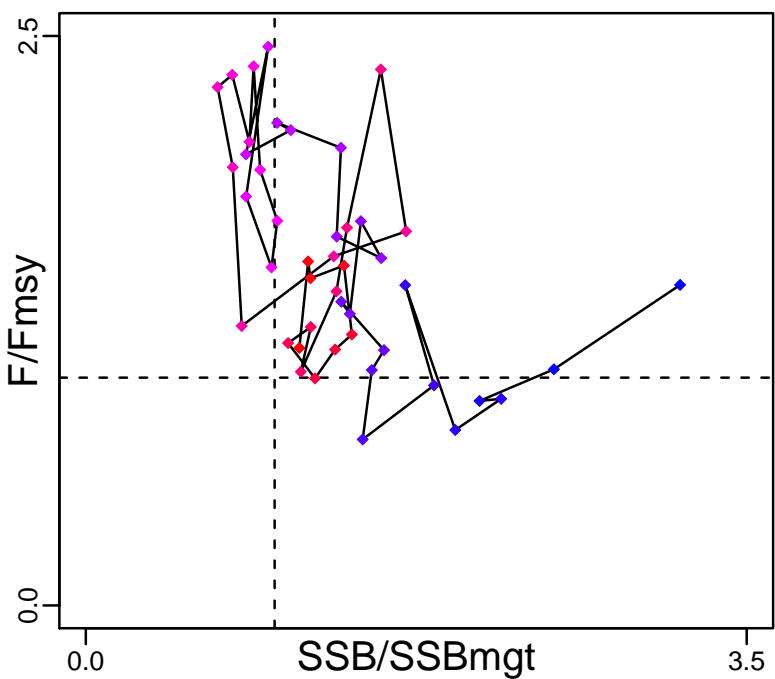
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGCSE-SOLECS-1970-2016-ICESIMP2016
<b>Area</b>	Celtic Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2013, 2014, 2015,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

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

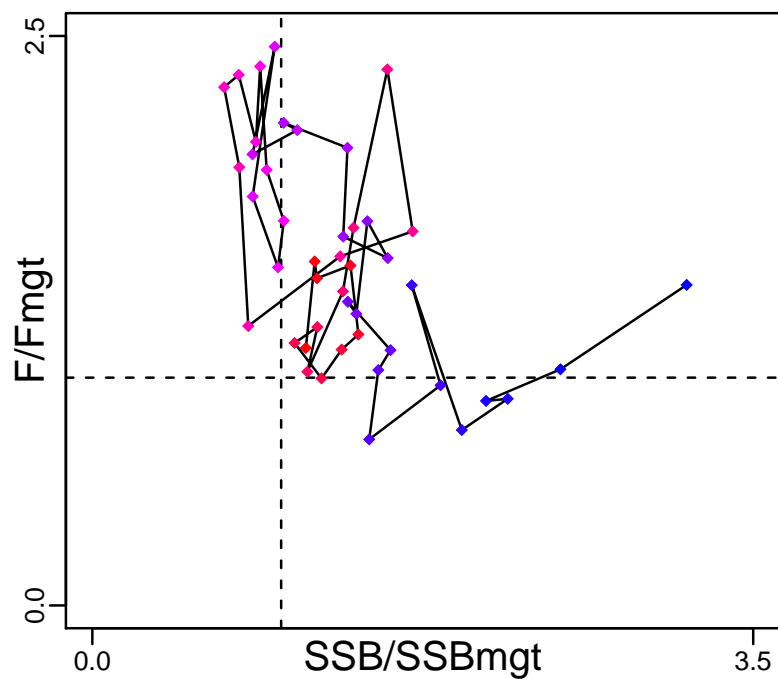
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	4130	Both	-
<b>SSB</b>	SSB-MT	2016	2600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	4,930,000	-	1
<b>F</b>	F-1/yr	2016	0.305	-	4 to 8
<b>ER</b>	ER-calc-ratio	2016	0.166	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	830		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.13		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.081		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.13		
<b>ER/ERmgt</b>	-	-	-		

# Common sole Celtic Sea [SOLECS]

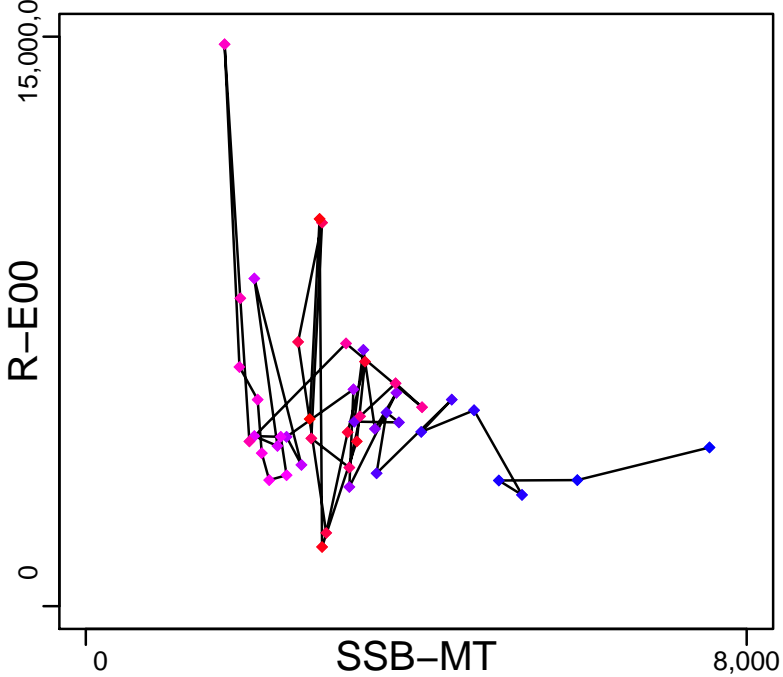
Kobe MSYpref (1970–2016–ICESIMP2016)



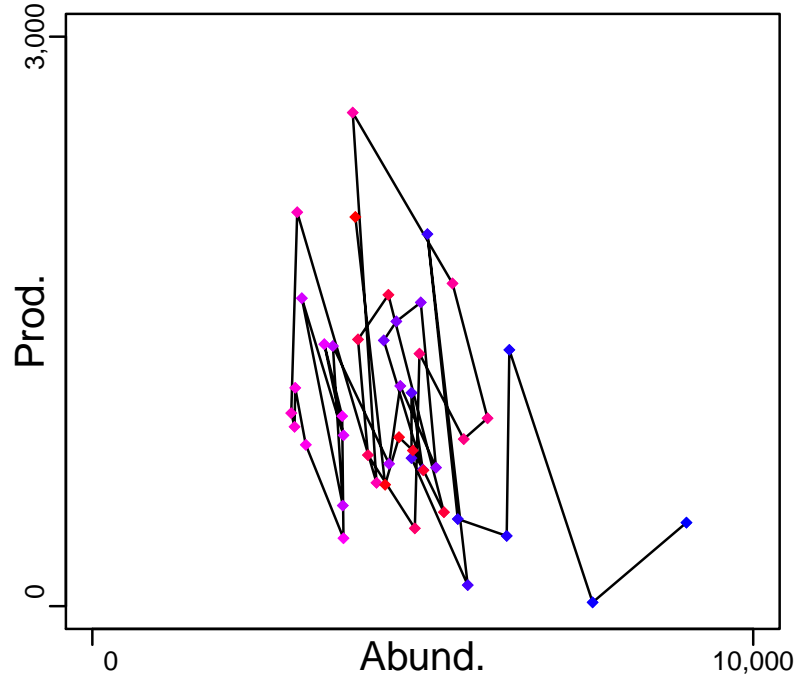
Kobe MGTpref (1970–2016–ICESIMP2016)



Spawner Recruit (1970–2016–ICESIMP2016)



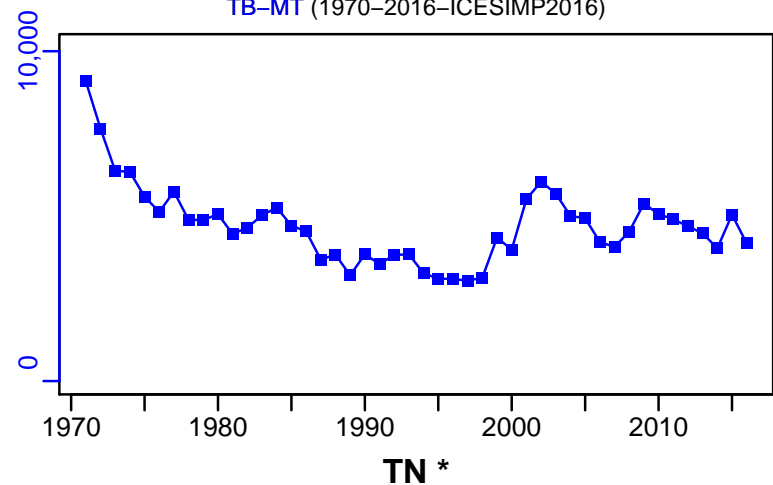
Production (1970–2016–ICESIMP2016)



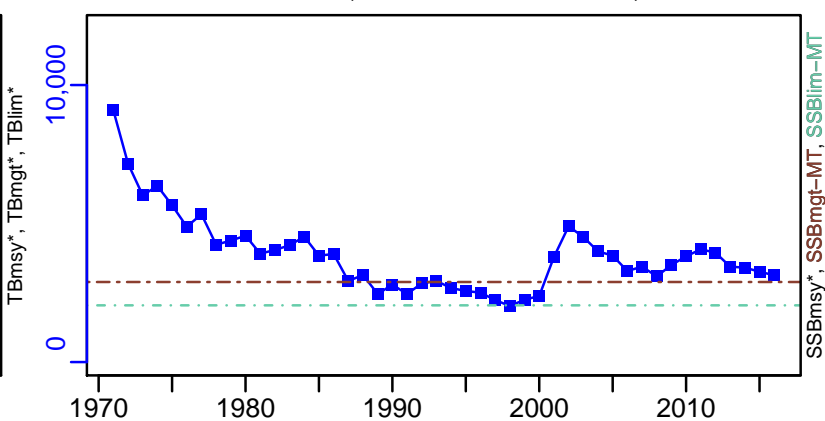
◆ Start Year ◆ End Year \* No Data

# Common sole Celtic Sea [SOLECS]

TB-MT (1970–2016–ICESIMP2016)



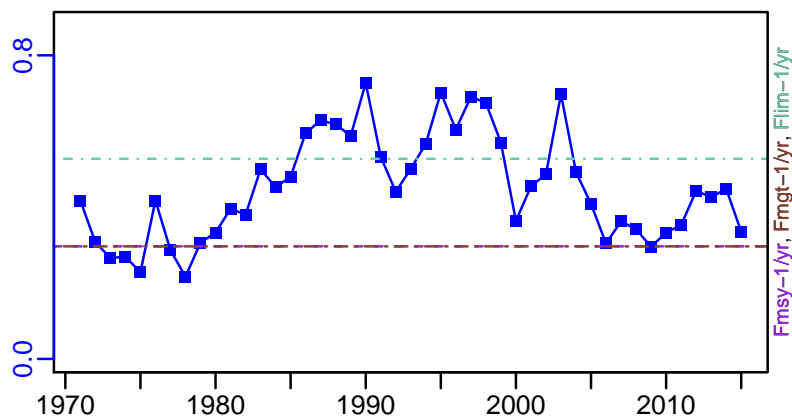
SSB-MT (1970–2016–ICESIMP2016)



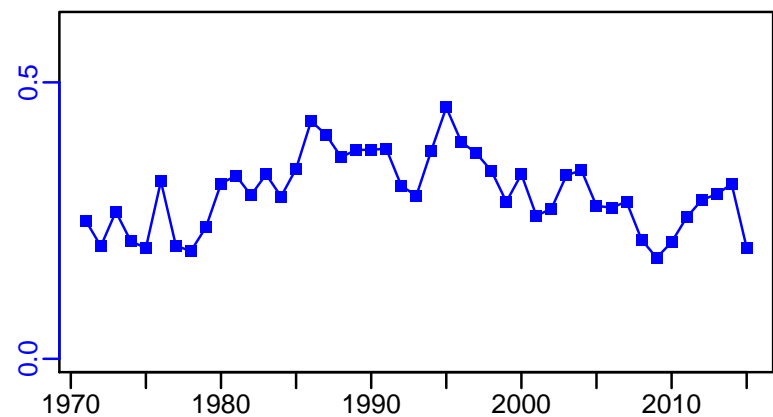
TN \*



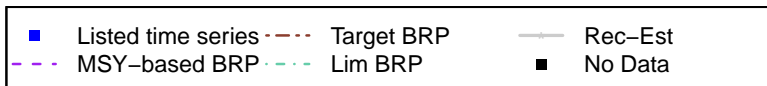
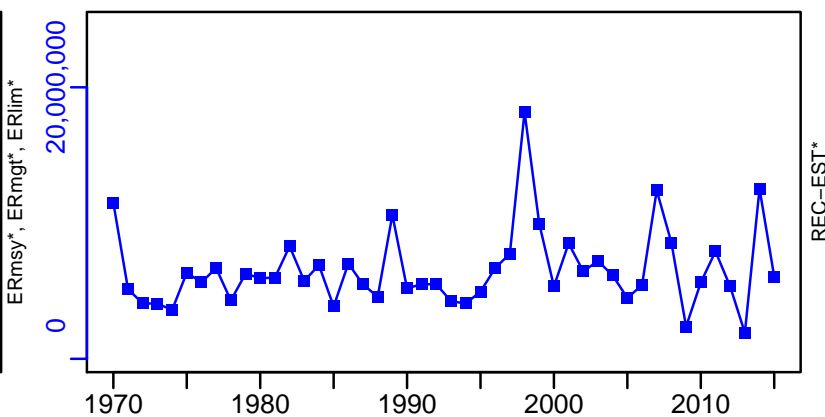
F-1/yr (1970–2016–ICESIMP2016)



ER-calc-ratio (1970–2016–ICESIMP2016)

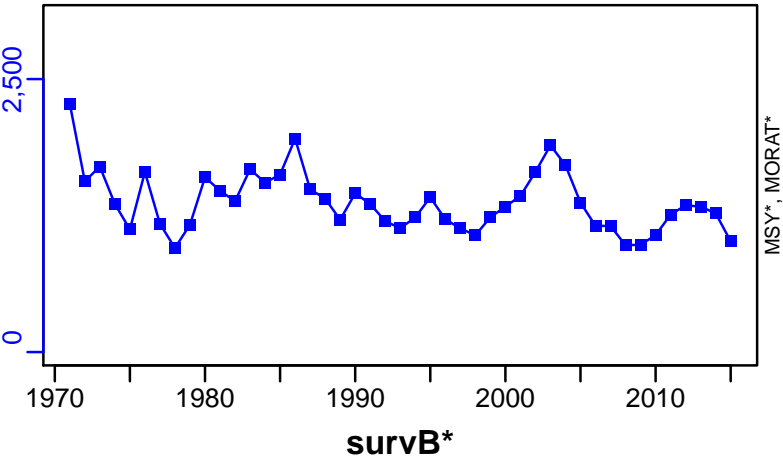


R-E00 (1970–2016–ICESIMP2016)



Common sole Celtic Sea [SOLECS]

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



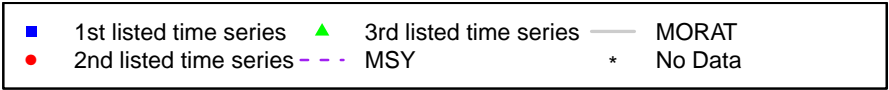
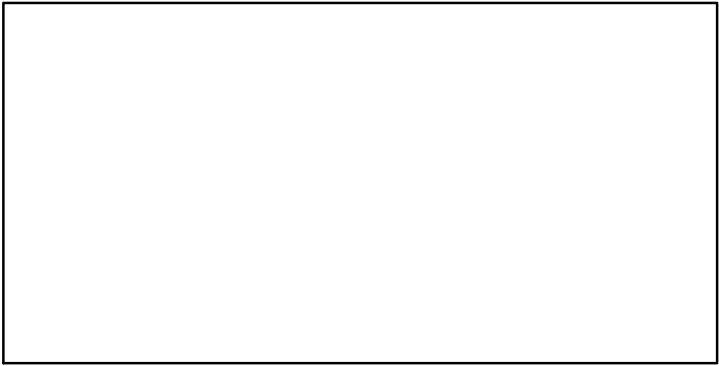
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





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

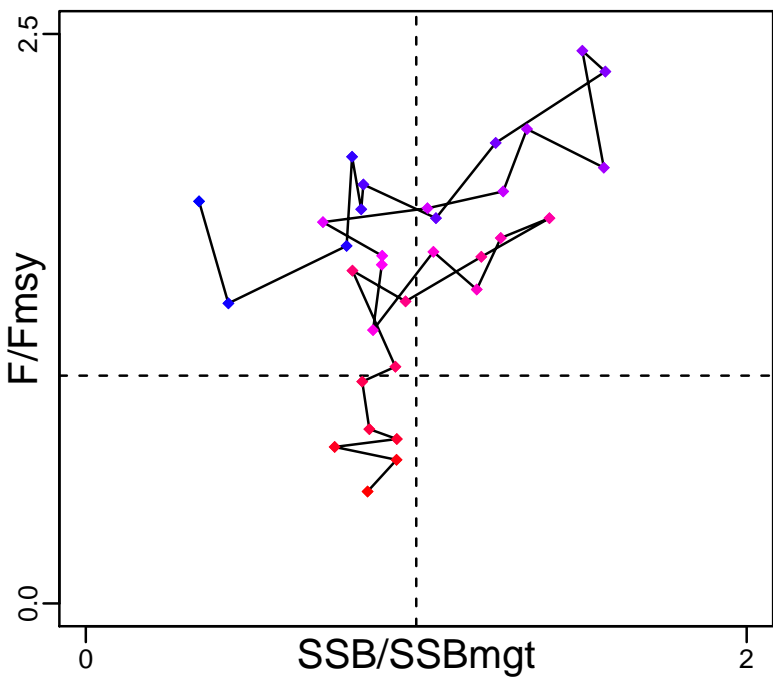
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGBFAS-SOLEIIIa-2224-1983-2016-ICESIMP2016
<b>Area</b>	22-24-IIIa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2013,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.23
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	2600
<b>Fmgt</b>	Fmgt-1/yr	2016	0.23
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	1850
<b>Flim</b>	Flim-1/yr	2016	0.315
<b>ERlim</b>	-	-	-

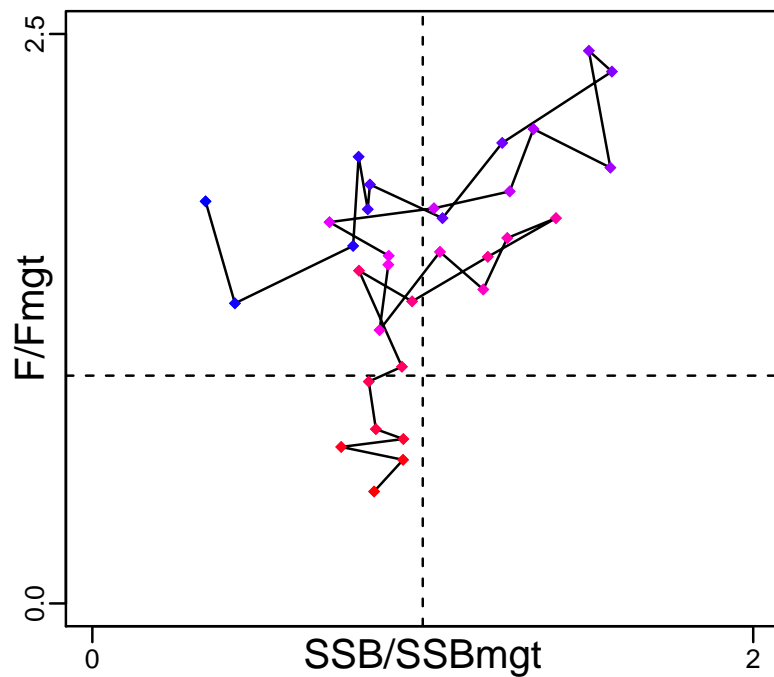
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	2930	Both	-
<b>SSB</b>	SSB-MT	2016	2450	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,920,000	-	1
<b>F</b>	F-1/yr	2016	0.113	-	4 to 8
<b>ER</b>	ER-calc-ratio	2016	0.076	-	-
<b>TC</b>	TC-MT	2011	538		
<b>TL</b>	TL-MT	2016	224		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.491		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.94		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.491		
<b>ER/ERmgt</b>	-	-	-		

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

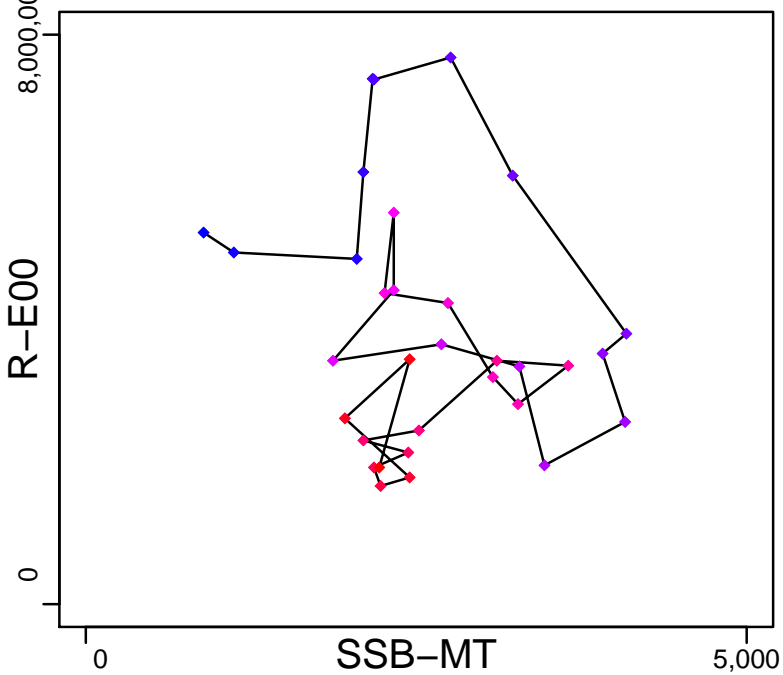
Kobe MSYpref (1983–2016–ICESIMP2016)



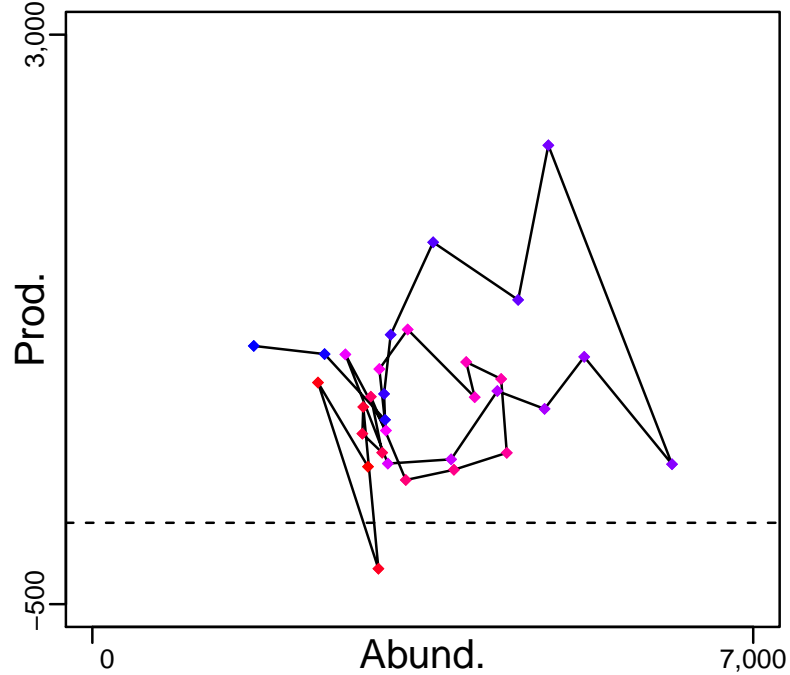
Kobe MGTpref (1983–2016–ICESIMP2016)



Spawner Recruit (1983–2016–ICESIMP2016)



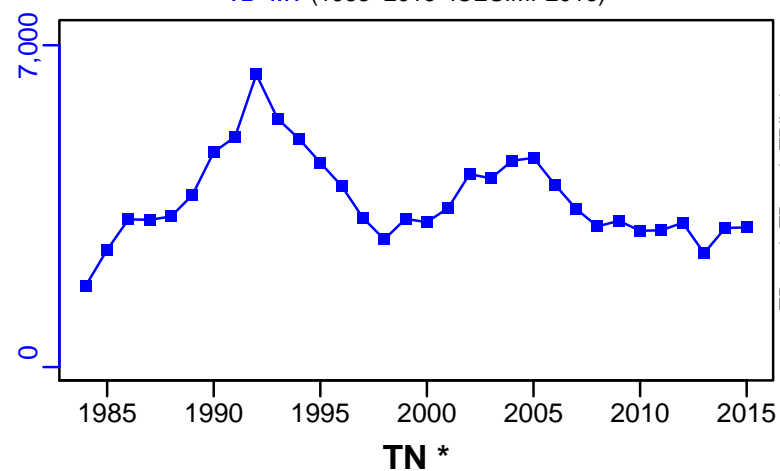
Production (1983–2016–ICESIMP2016)



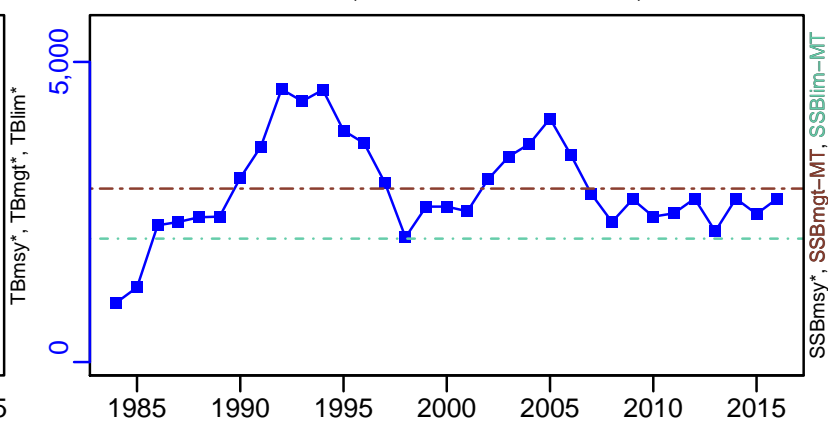
◆ Start Year ◆ End Year \* No Data

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

TB-MT (1983-2016-ICESIMP2016)

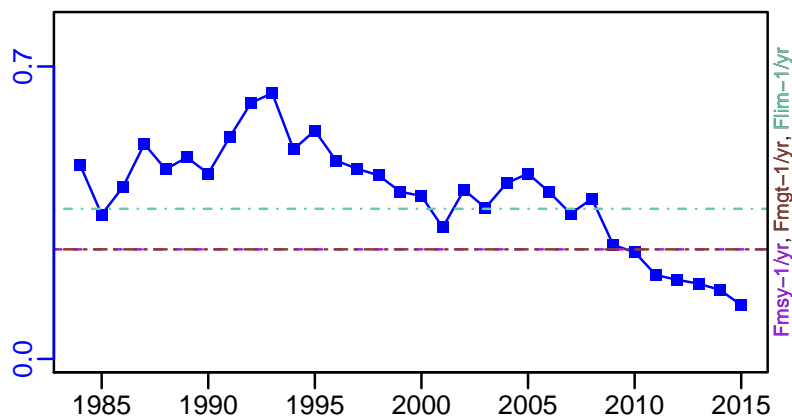
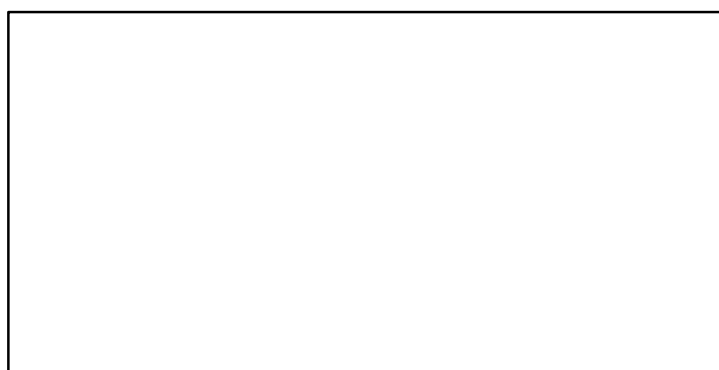


SSB-MT (1983-2016-ICESIMP2016)

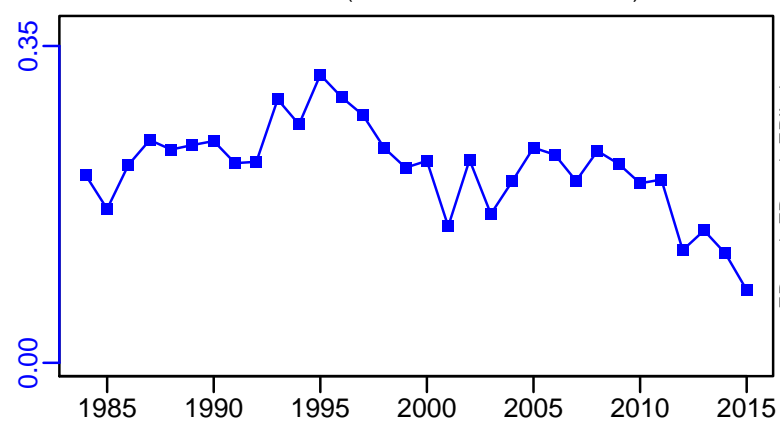


TN \*

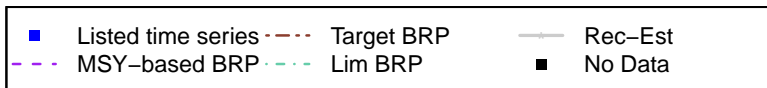
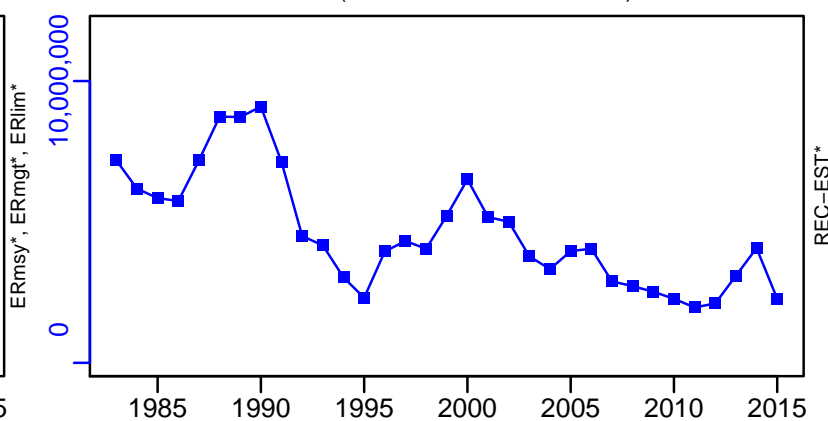
F-1/yr (1983-2016-ICESIMP2016)



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

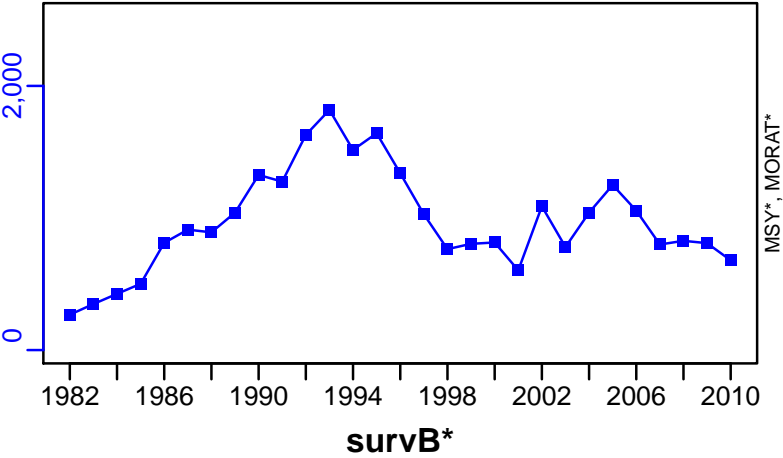


R-E00 (1983-2016-ICESIMP2016)

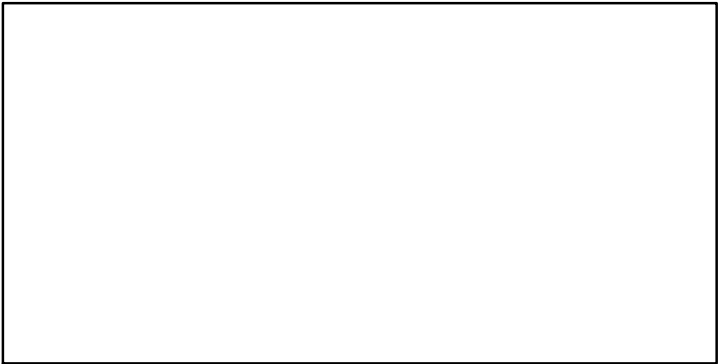


Common sole 22–24–IIIa [SOLEIIIa–2224]

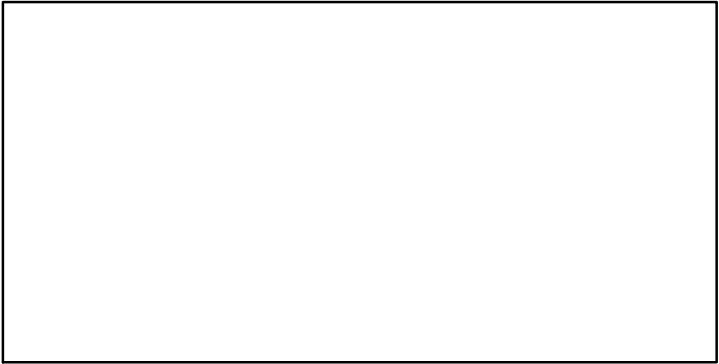
TC–MT, TL\*, RecC\* (1982–2011–NEUBAUER)



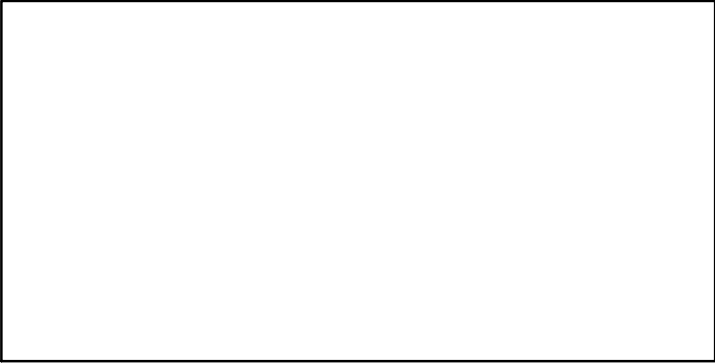
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Common sole Irish Sea [SOLEIS]

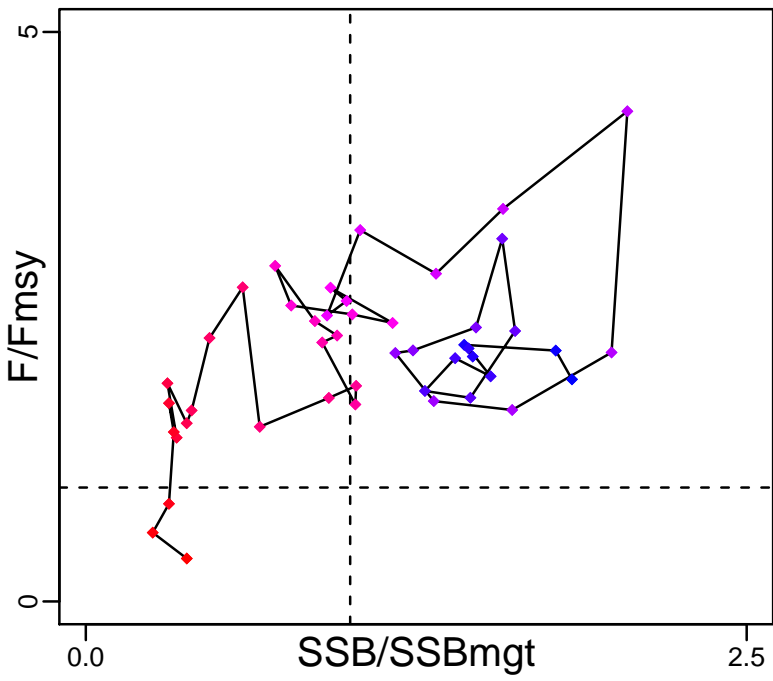
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGCSE-SOLEIS-1968-2016-ICESIMP2016
<b>Area</b>	Irish Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2013, 2014, 2015,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

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

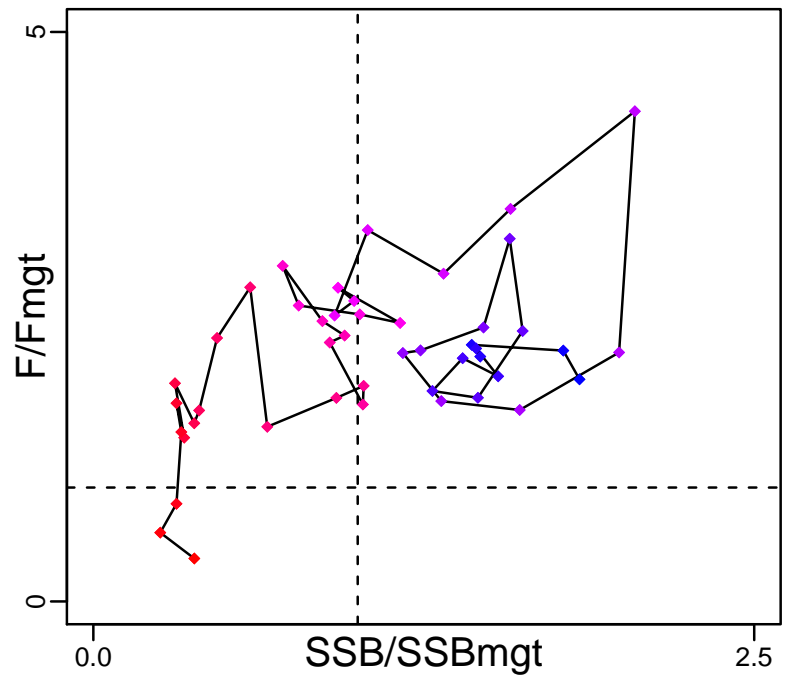
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1660	Both	-
<b>SSB</b>	SSB-MT	2016	1450	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,210,000	-	2
<b>F</b>	F-1/yr	2016	0.075	-	4 to 7
<b>ER</b>	ER-calc-ratio	2016	0.048	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	76		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.377		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.413		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.377		
<b>ER/ERmgt</b>	-	-	-		

# Common sole Irish Sea [SOLEIS]

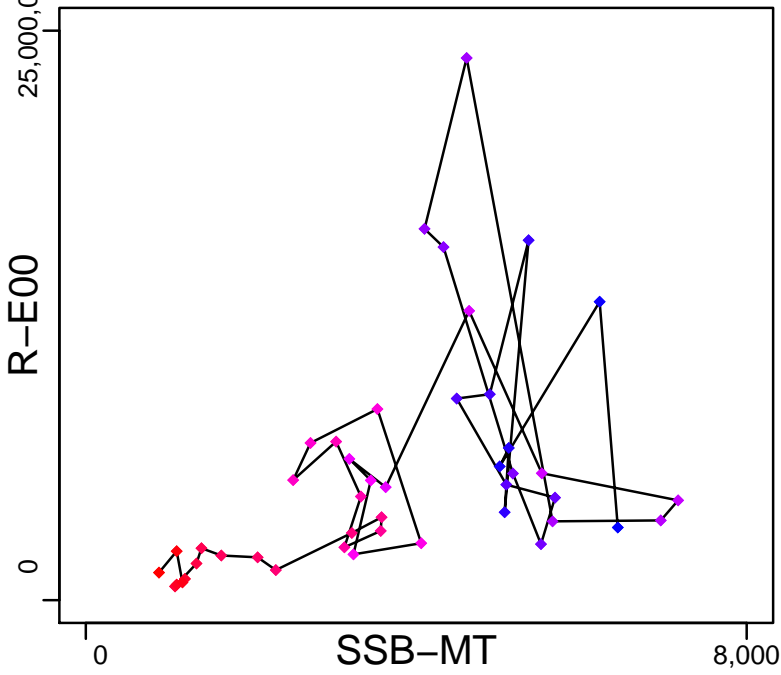
Kobe MSYpref (1968–2016–ICESIMP2016)



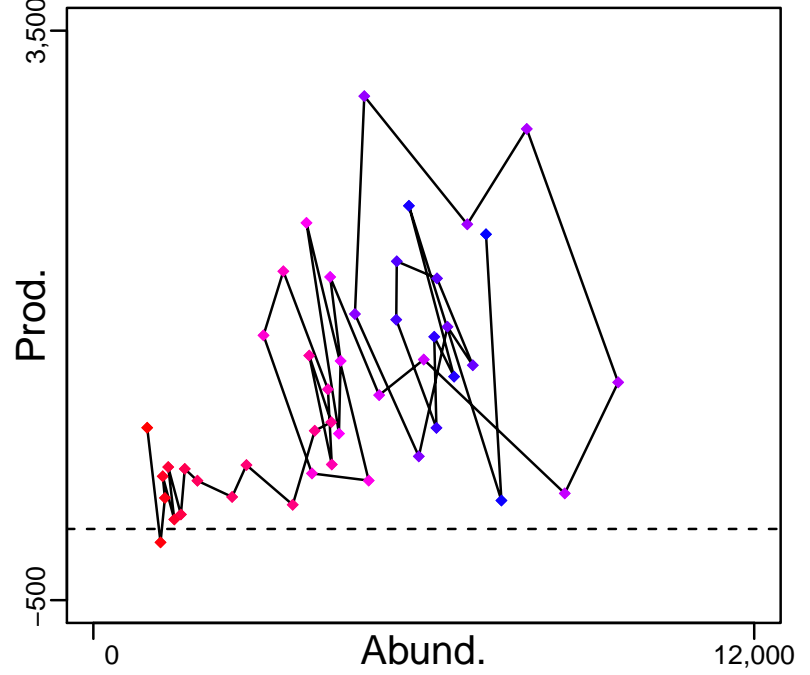
Kobe MGTpref (1968–2016–ICESIMP2016)



Spawner Recruit (1968–2016–ICESIMP2016)



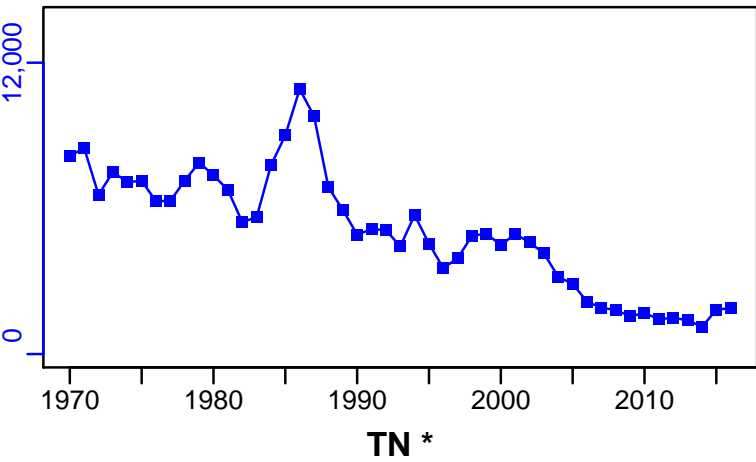
Production (1968–2016–ICESIMP2016)



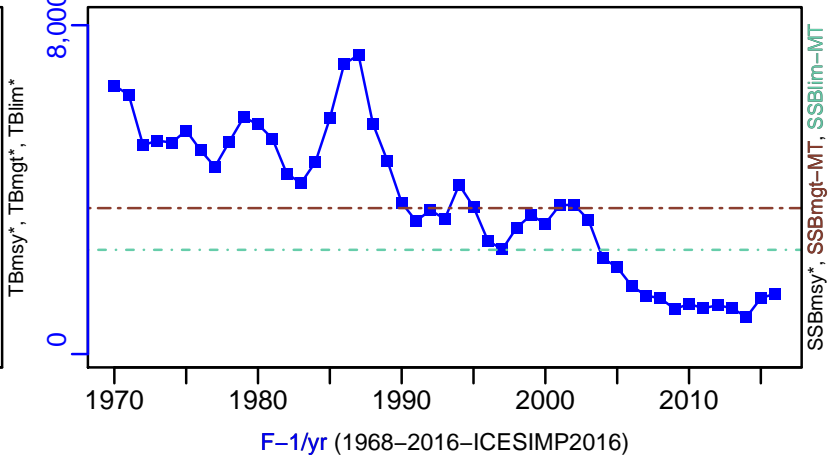
◆ Start Year ◆ End Year \* No Data

# Common sole Irish Sea [SOLEIS]

TB-MT (1968–2016–ICESIMP2016)

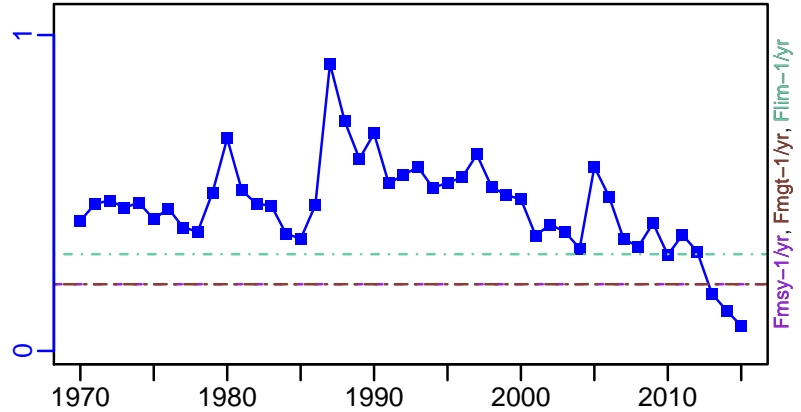
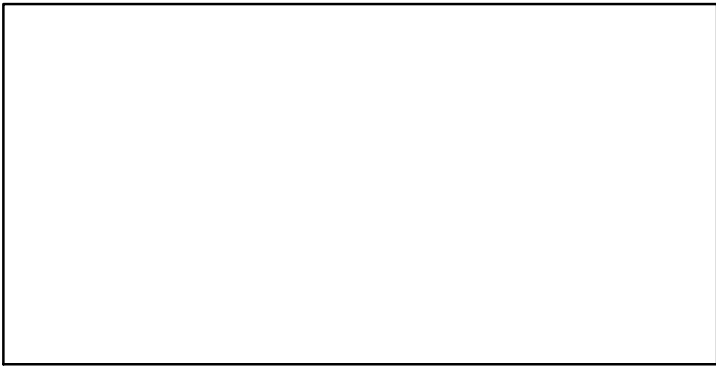


SSB-MT (1968–2016–ICESIMP2016)

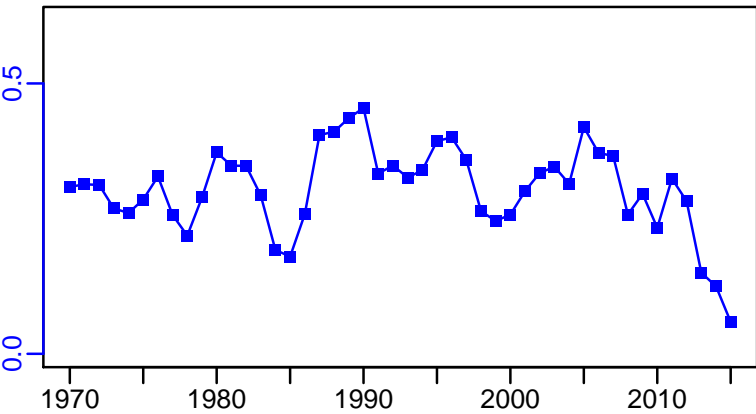


TN \*

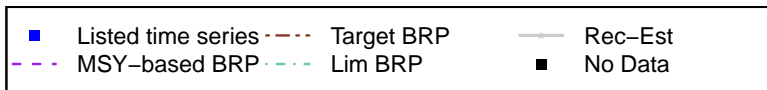
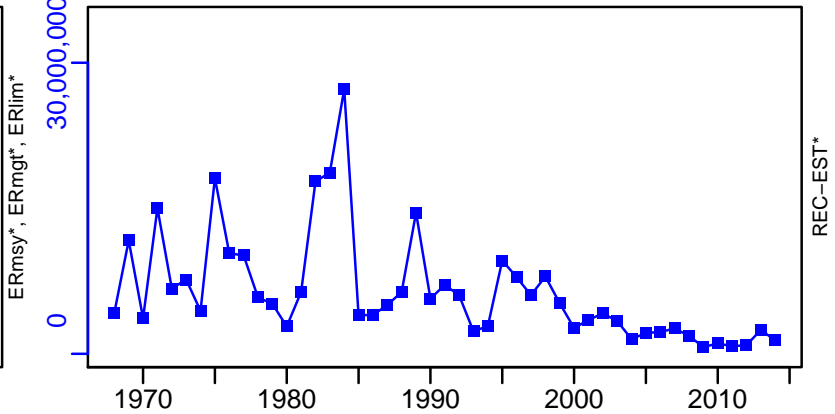
F-1/yr (1968–2016–ICESIMP2016)



ER-calc-ratio (1968–2016–ICESIMP2016)

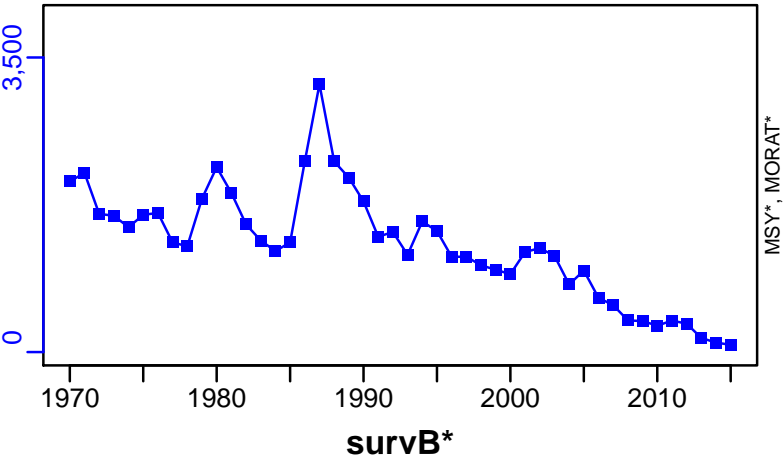


R-E00 (1968–2016–ICESIMP2016)



Common sole Irish Sea [SOLEIS]

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



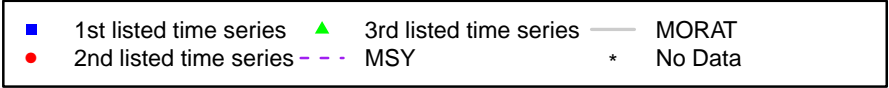
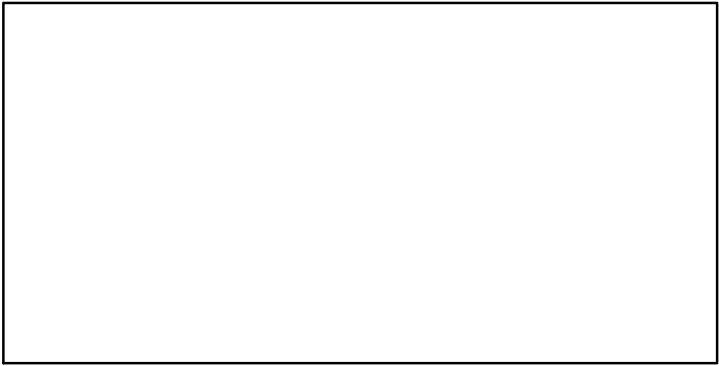
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Common sole North Sea [SOLENS]

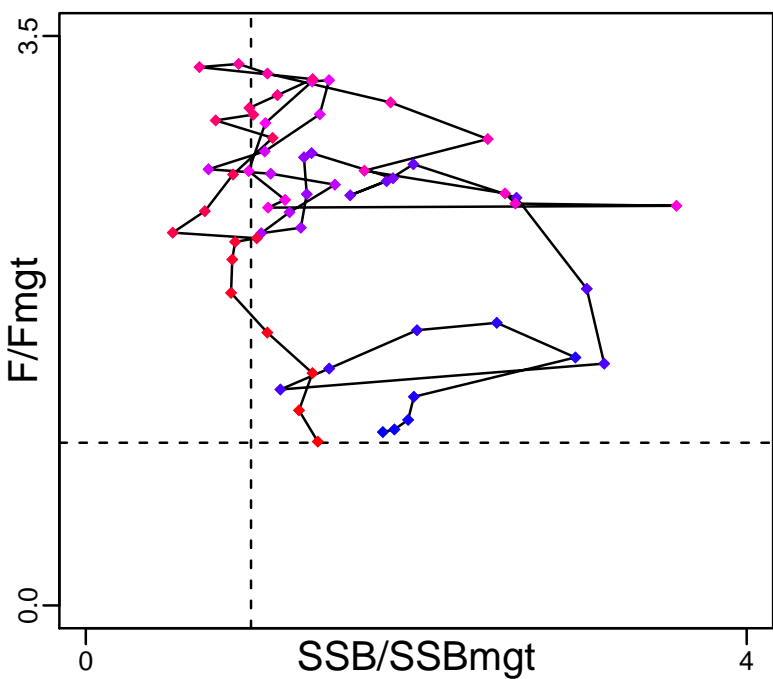
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGNSSK-SOLENS-1956-2016-ICESIMP2016
<b>Area</b>	North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2010	0.22
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	35,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.1
<b>TBlim</b>	TBlim-MT	2010	25,000
<b>SSBlim</b>	SSBlim-MT	2016	26,300
<b>Flim</b>	Flim-1/yr	2016	0.62
<b>ERlim</b>	-	-	-

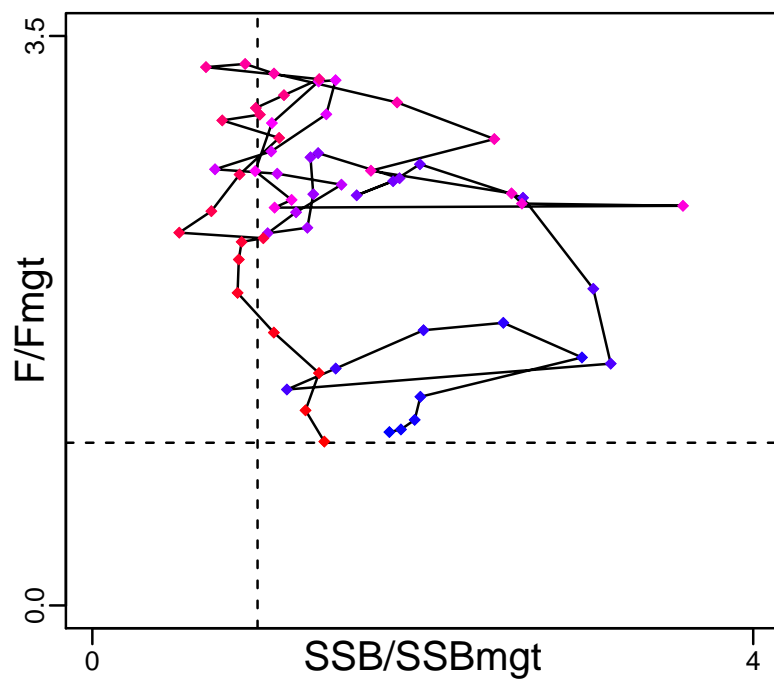
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	55,100	Both	-
<b>SSB</b>	SSB-MT	2016	64,300	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	59,200,000	-	1
<b>F</b>	F-1/yr	2016	0.201	-	2 to 6
<b>ER</b>	ER-calc-ratio	2015	0.251	-	-
<b>TC</b>	TC-MT	2016	14,300		
<b>TL</b>	TL-MT	2016	12,600		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2010	1.545		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.837		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.007		
<b>ER/ERmgt</b>	-	-	-		

# Common sole North Sea [SOLENS]

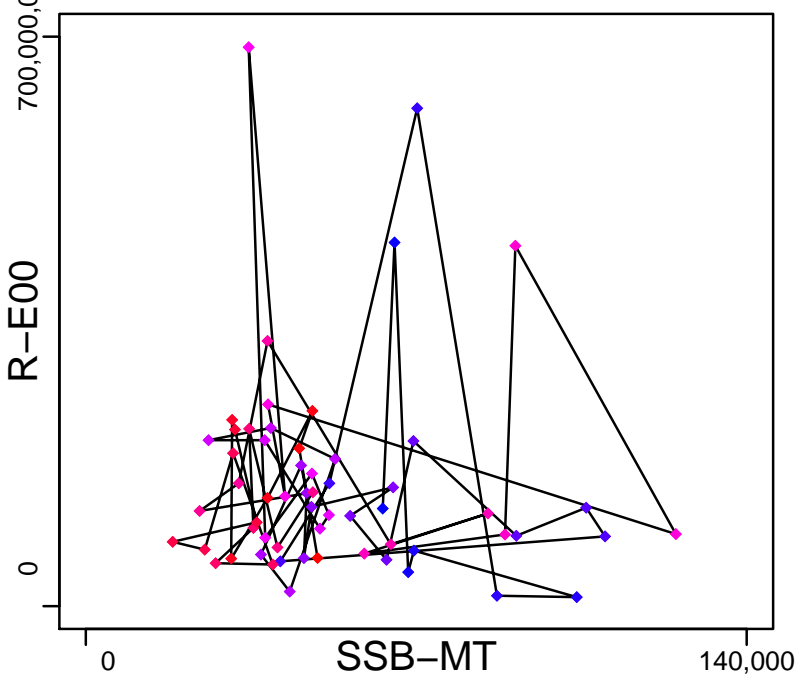
Kobe MSYpref (1956–2016–ICESIMP2016)



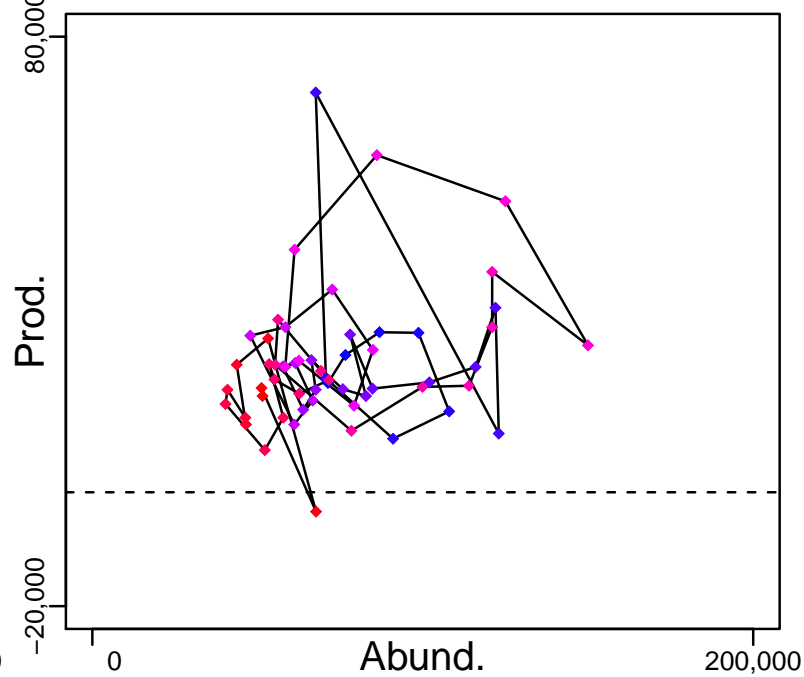
Kobe MGTpref (1956–2016–ICESIMP2016)



Spawner Recruit (1956–2016–ICESIMP2016)



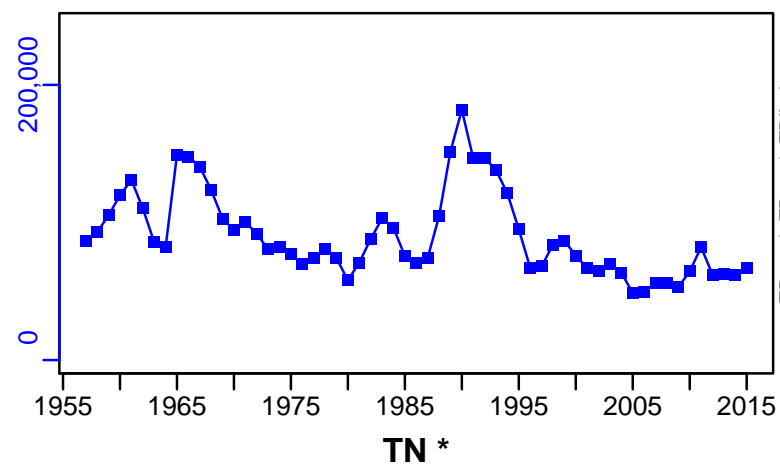
Production (1956–2015–ICESIMP2016)



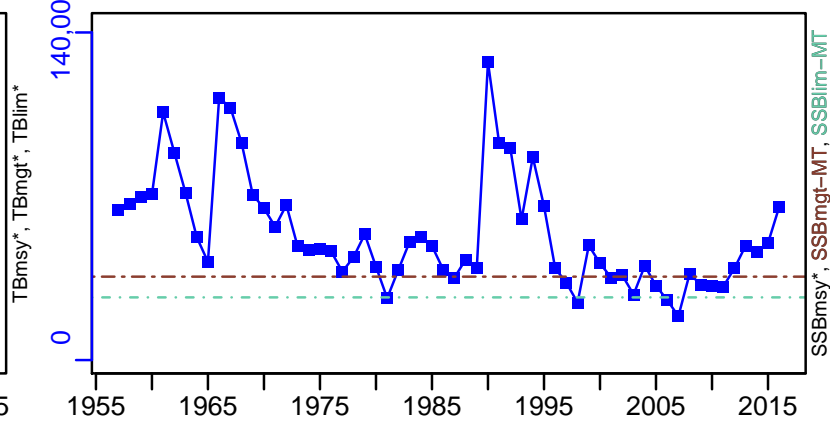
◆ Start Year ◆ End Year \* No Data

# Common sole North Sea [SOLENS]

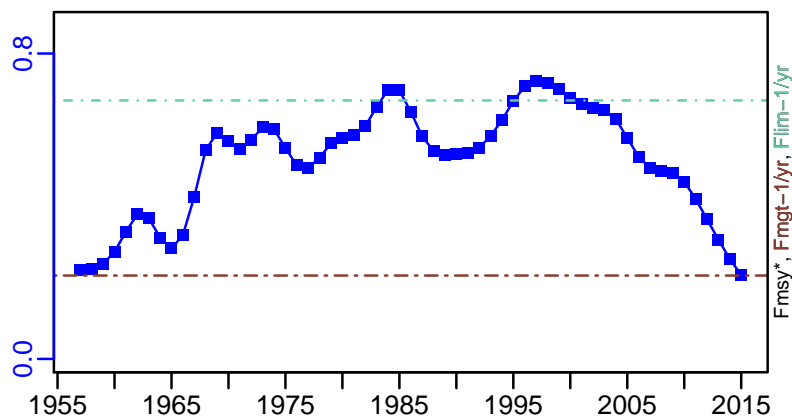
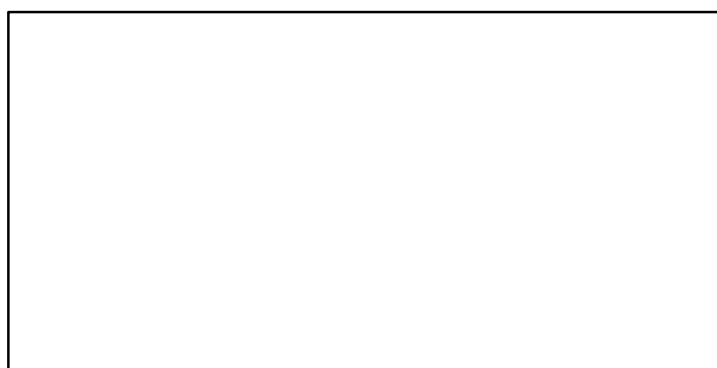
TB-MT (1956–2015–ICESIMP2016)



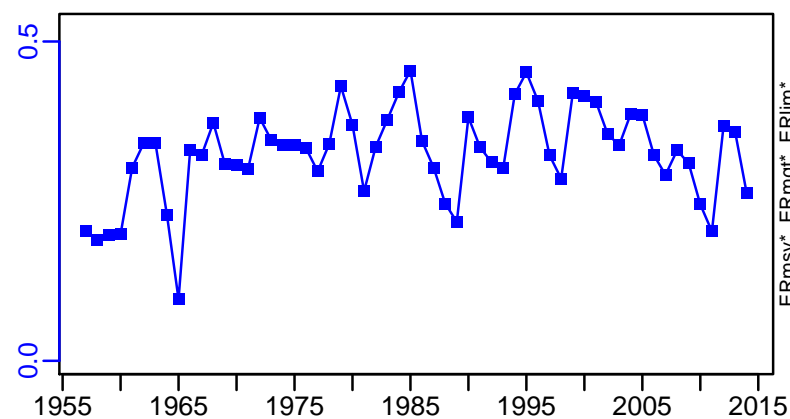
SSB-MT (1956–2016–ICESIMP2016)



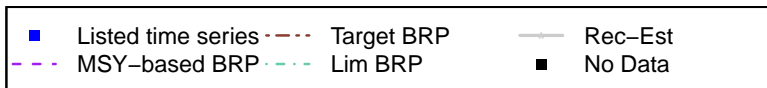
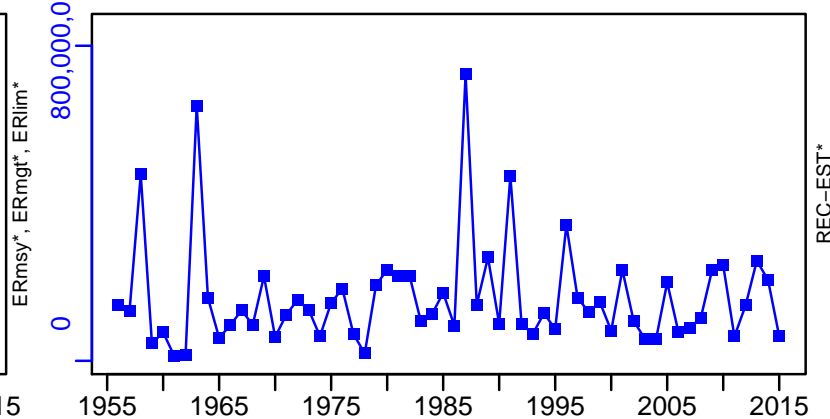
F-1/yr (1956–2016–ICESIMP2016)



ER-calc-ratio (1956–2015–ICESIMP2016)



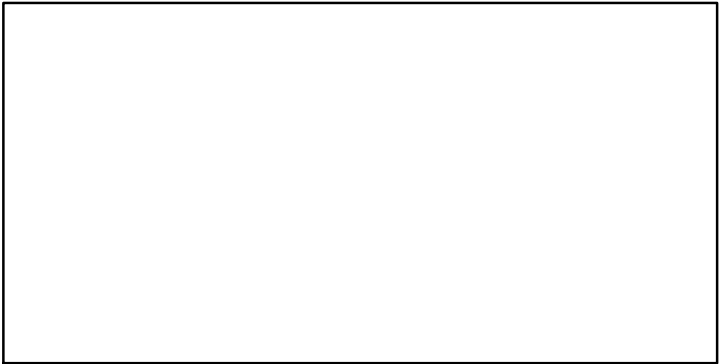
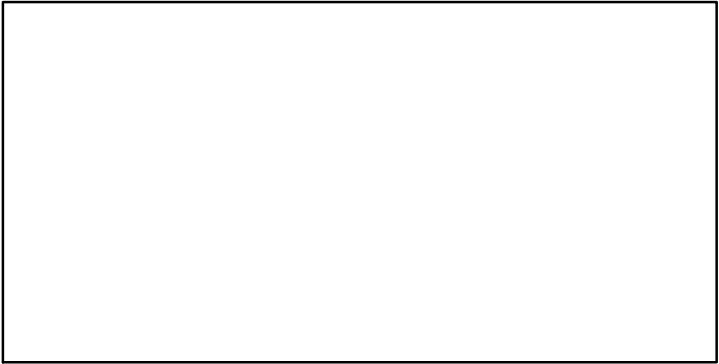
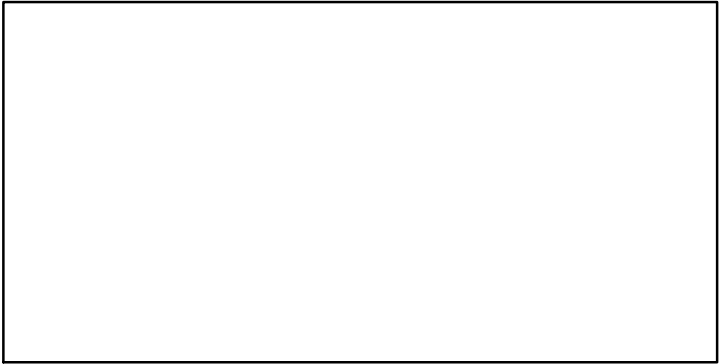
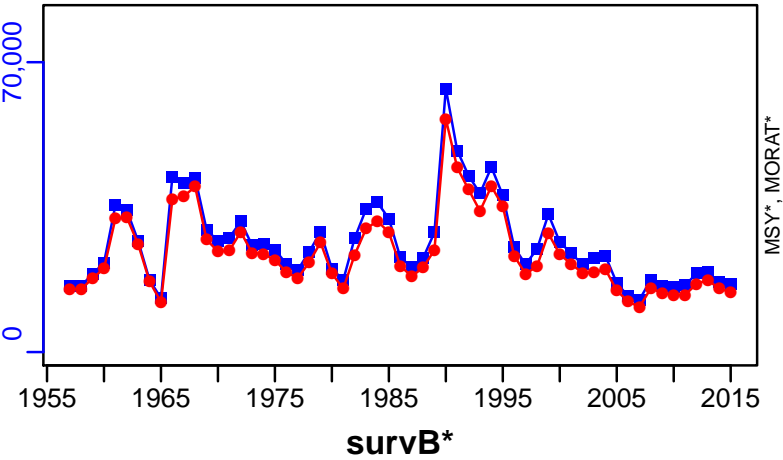
R-E00 (1956–2016–ICESIMP2016)



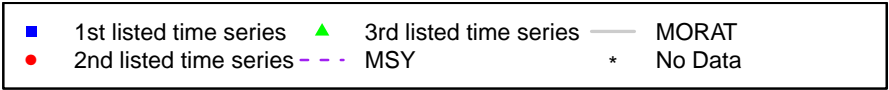
Common sole North Sea [SOLENS]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



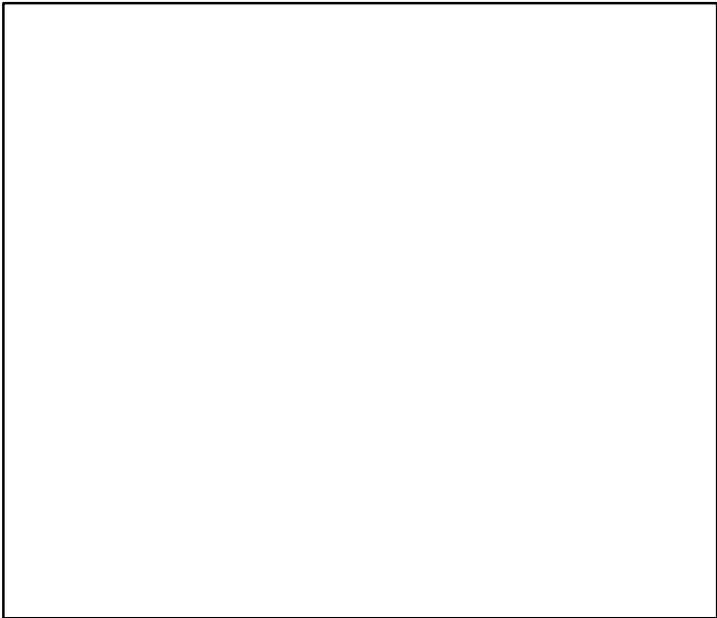
## Common sole VIIbc [SOLEVIIbc]

Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGCSE-SOLEVIIbc-1993-2015-ICESIMP2016
<b>Area</b>	VIIbc
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015

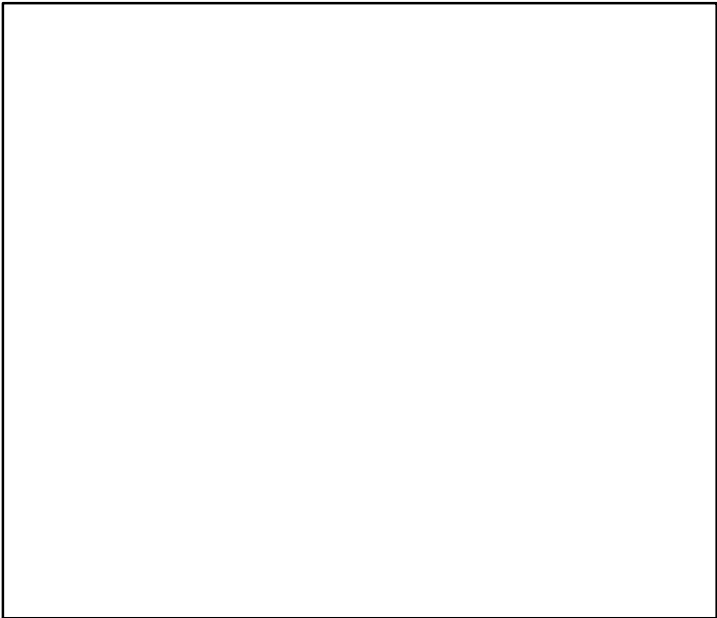
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

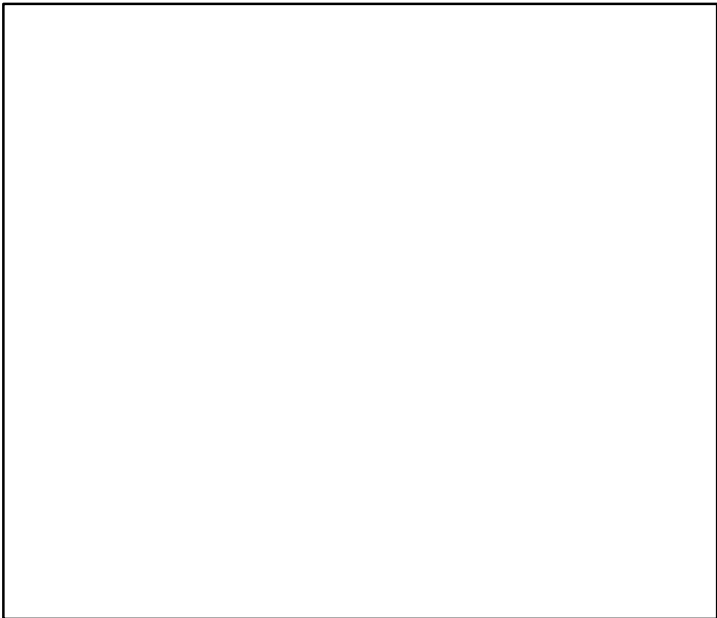
Kobe MSY\*



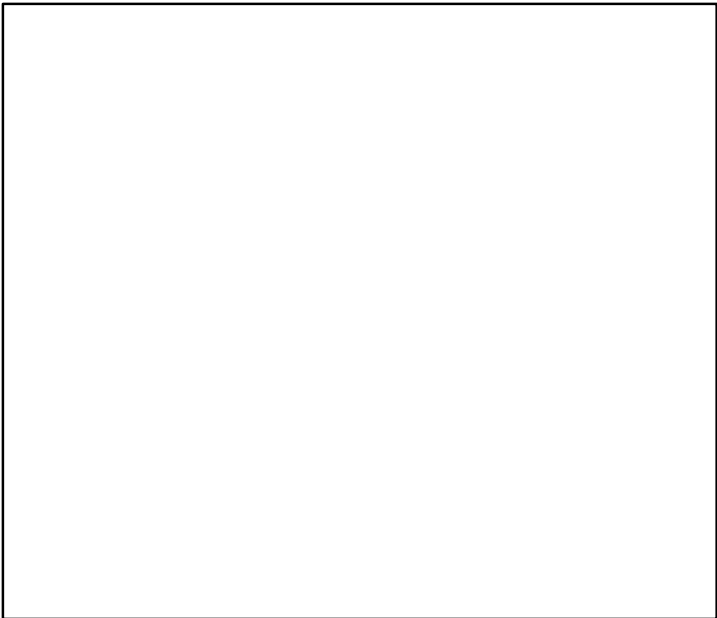
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Common sole VIIbc [SOLEVIIbc]

TB\*



SSB\*



TN \*



F\*



ER\*



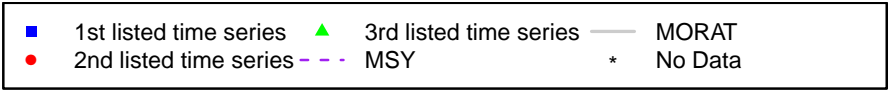
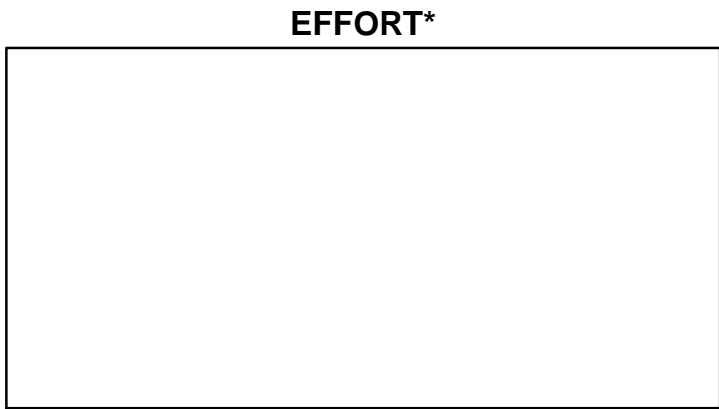
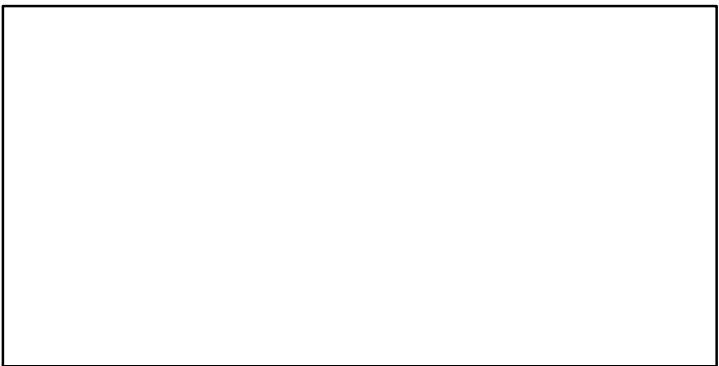
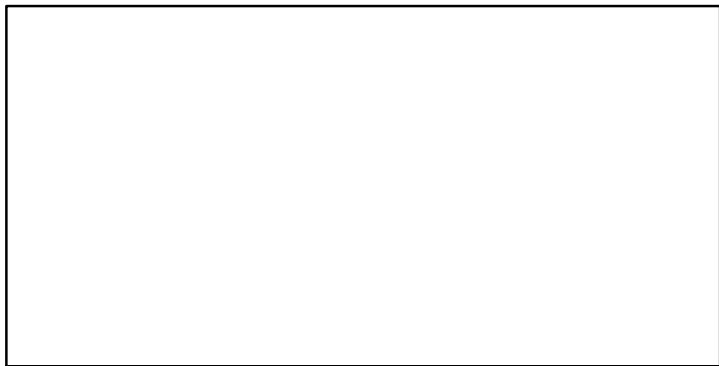
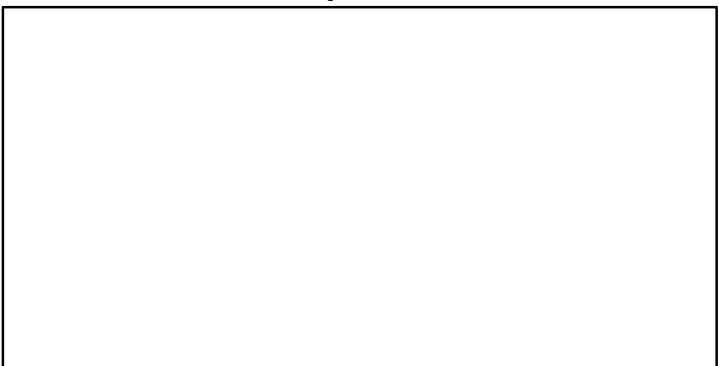
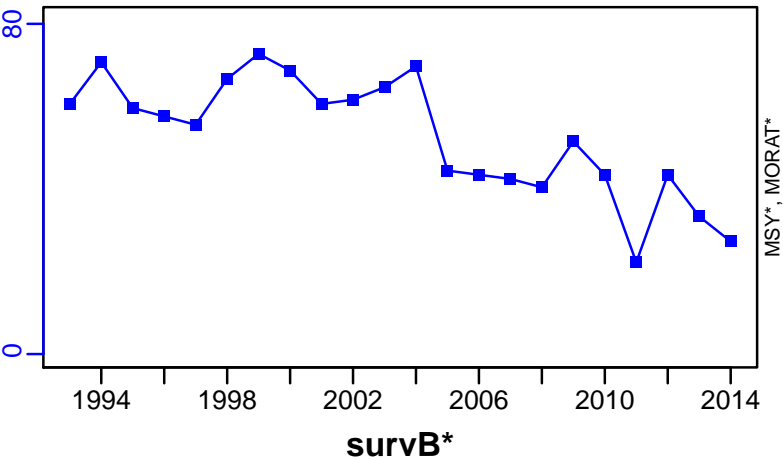
Recruits\*



# Common sole VIIbc [SOLEVIIbc]

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

TAC\*, Cpair\*, Cadv\*





## Common sole ICES VIId [SOLEVIId]

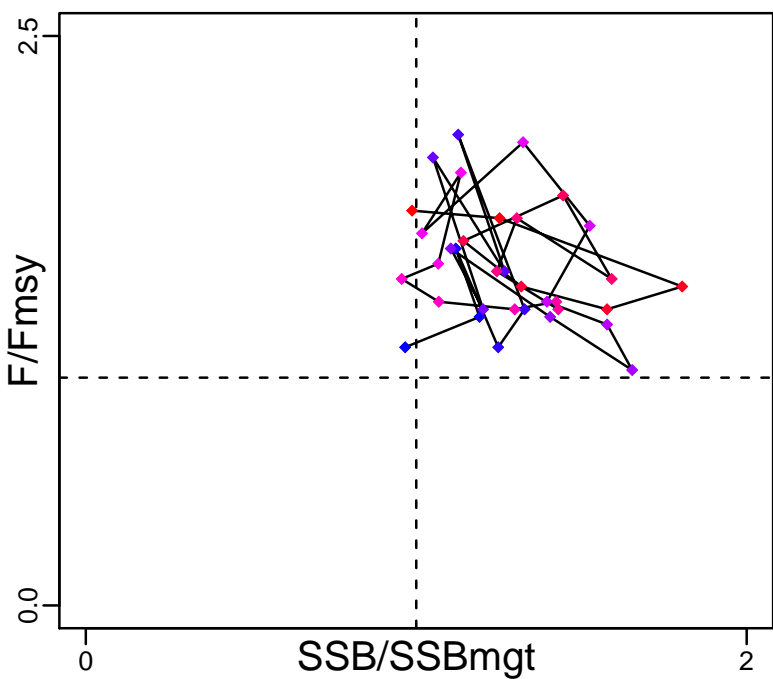
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGNSSK-SOLEVIId-1981-2016-ICESIMP2016
<b>Area</b>	Eastern English Channel
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.3
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	8000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.3
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	Flim-1/yr	2016	0.55
<b>ERlim</b>	-	-	-

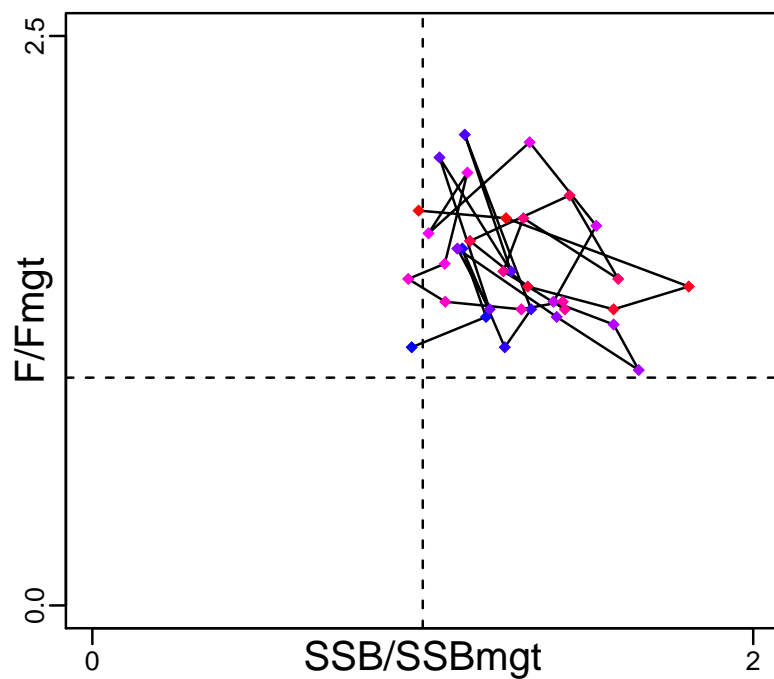
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	14,700	Both	-
<b>SSB</b>	SSB-MT	2016	7080	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	23,700,000	-	1
<b>F</b>	F-1/yr	2016	0.52	-	3 to 7
<b>ER</b>	ER-calc-ratio	2014	0.299	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	3440		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.733		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.885		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.733		
<b>ER/ERmgt</b>	-	-	-		

Common sole ICES VIld [SOLEVIld]

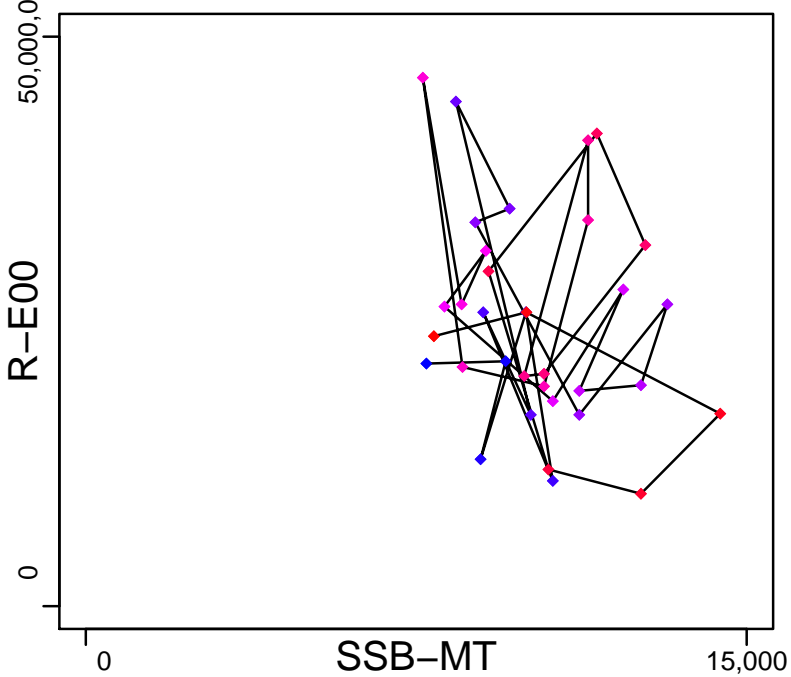
Kobe MSYpref (1981–2016–ICESIMP2016)



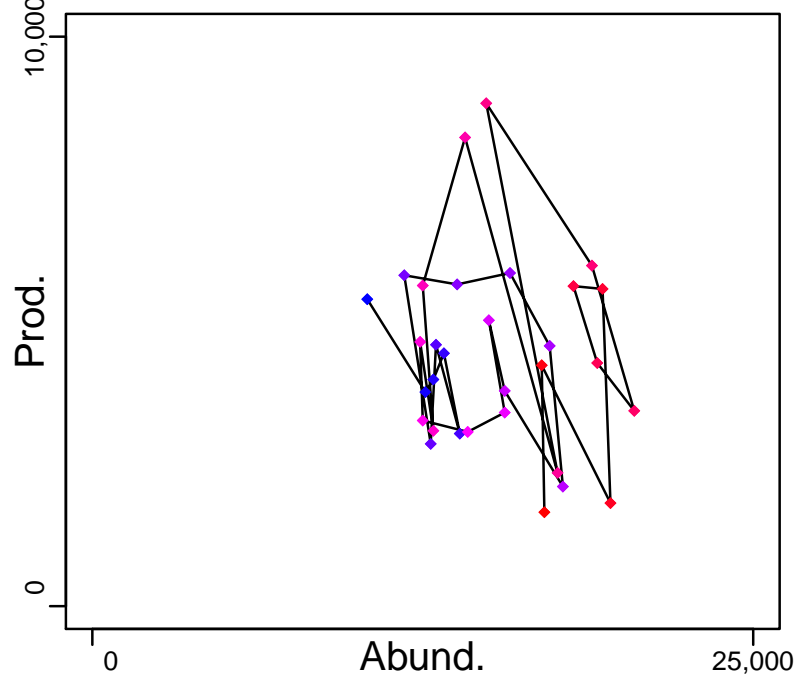
Kobe MGTpref (1981–2016–ICESIMP2016)



Spawner Recruit (1981–2016–ICESIMP2016)



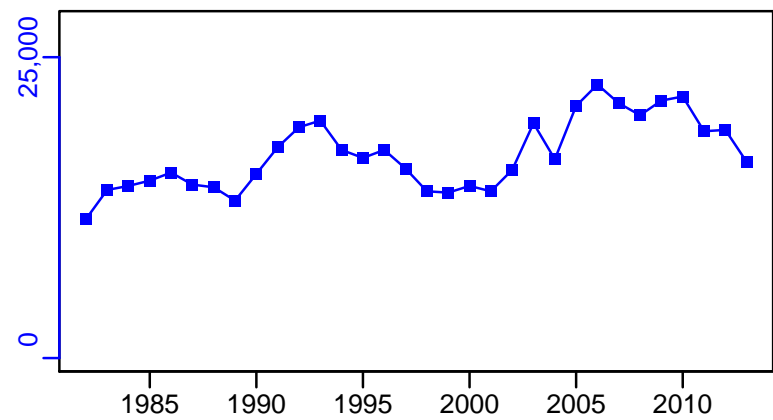
Production (1981–2014–ICESIMP2016)



◆ Start Year ◆ End Year \* No Data

# Common sole ICES VIId [SOLEVIId]

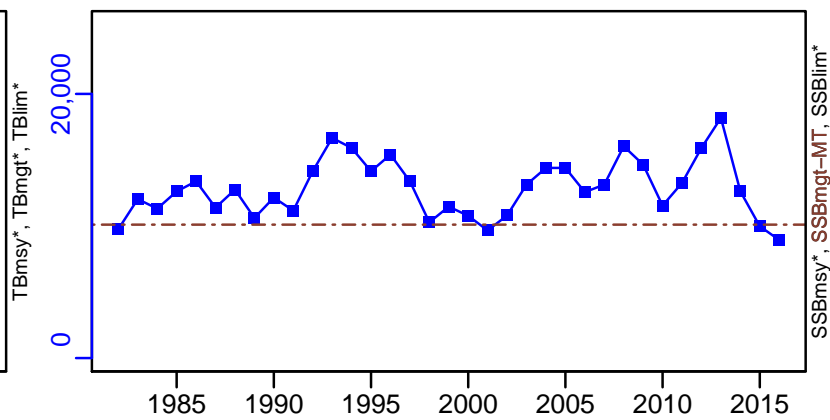
TB-MT (1981–2014–ICESIMP2016)



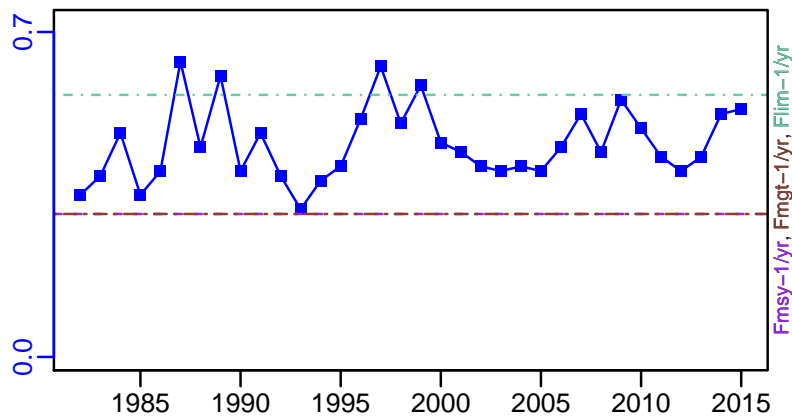
TN \*



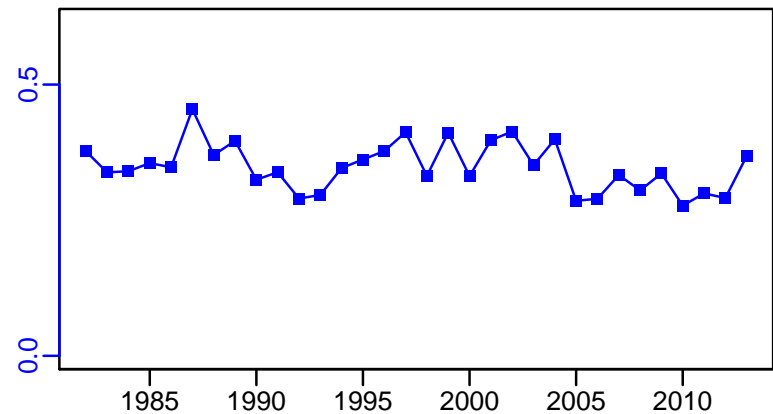
SSB-MT (1981–2016–ICESIMP2016)



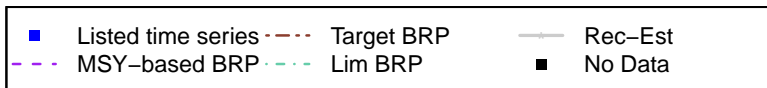
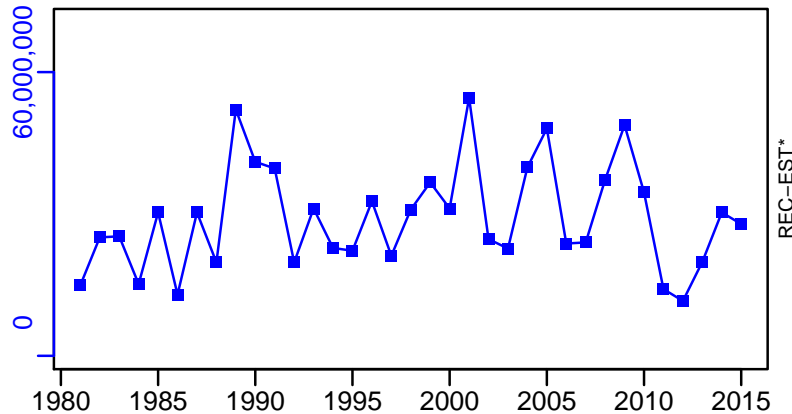
F-1/yr (1981–2016–ICESIMP2016)



ER-calc-ratio (1981–2014–ICESIMP2016)

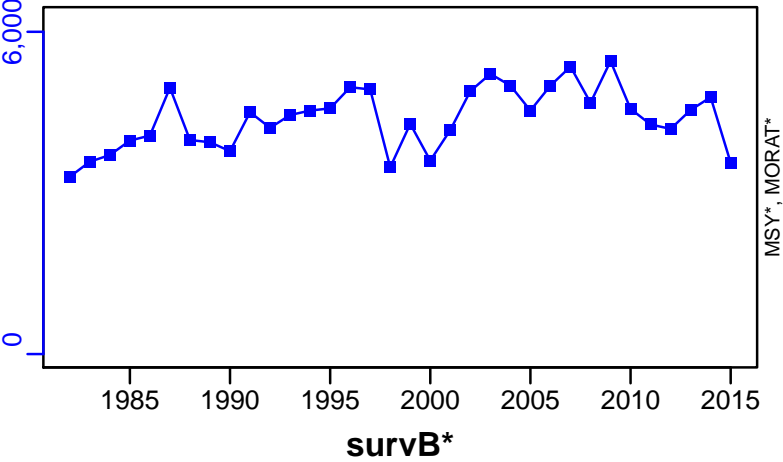


R-E00 (1981–2016–ICESIMP2016)



Common sole ICES VIId [SOLEVIId]

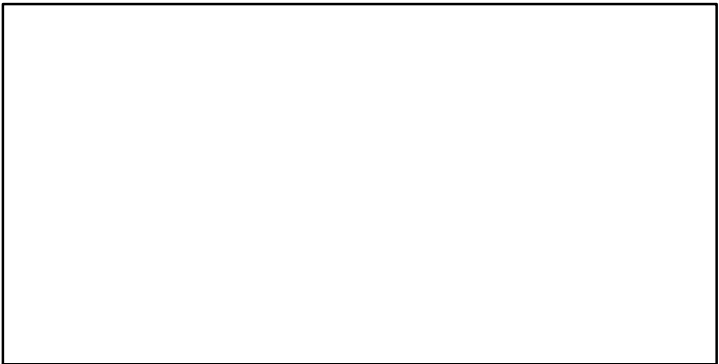
TL-MT, TC\*, RecC\* (1981-2016-ICESIMP2016)



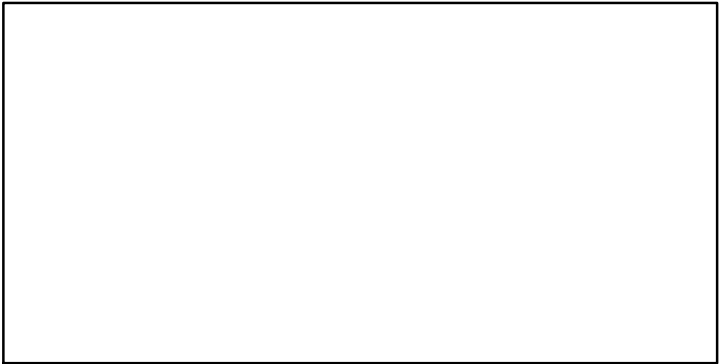
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Common sole Western English Channel [SOLEVIIe]

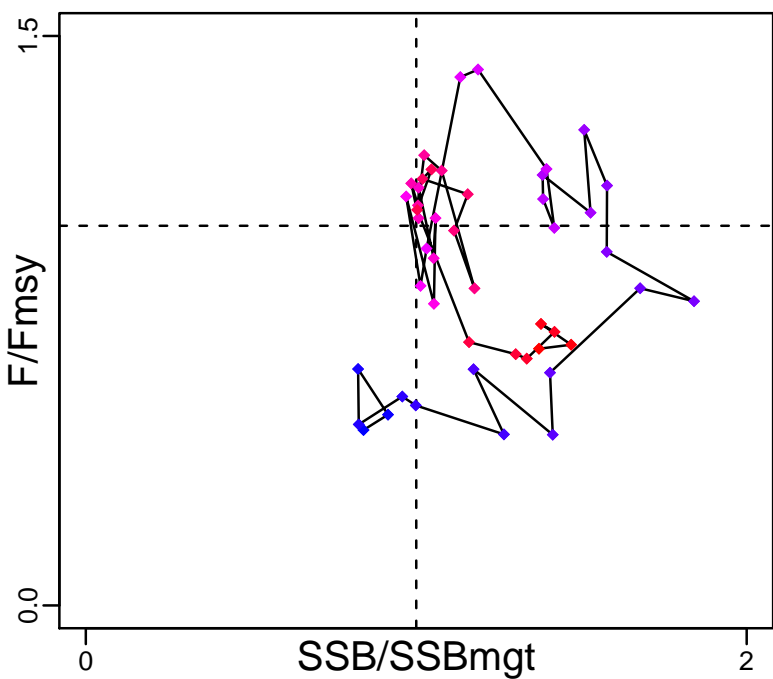
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGCSE-SOLEVIIe-1967-2016-ICESIMP2016
<b>Area</b>	Western English Channel
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2015,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

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

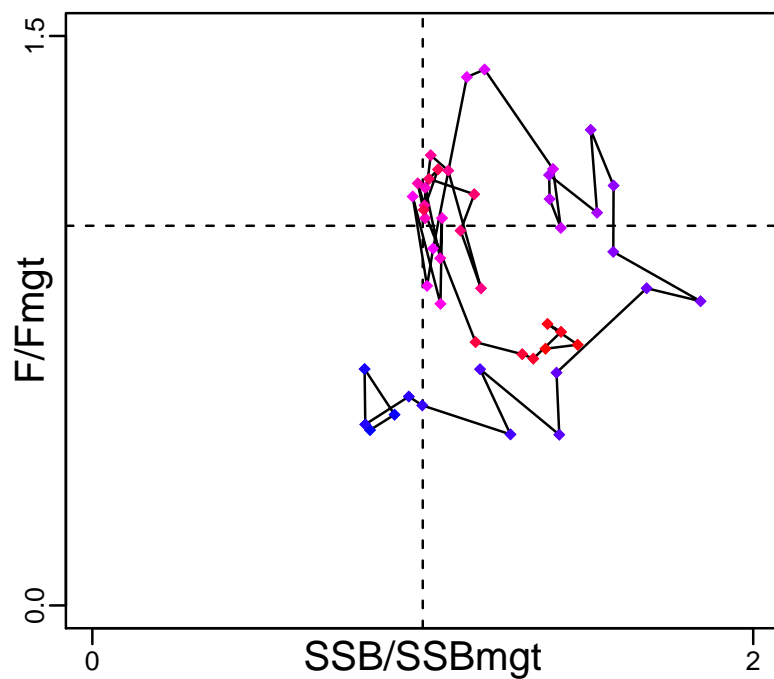
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	4920	Both	-
<b>SSB</b>	SSB-MT	2016	4030	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	3,910,000	-	2
<b>F</b>	F-1/yr	2016	0.196	-	3 to 9
<b>ER</b>	ER-calc-ratio	2016	0.157	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	772		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.676		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.39		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.676		
<b>ER/ERmgt</b>	-	-	-		

# Common sole Western English Channel [SOLEVile]

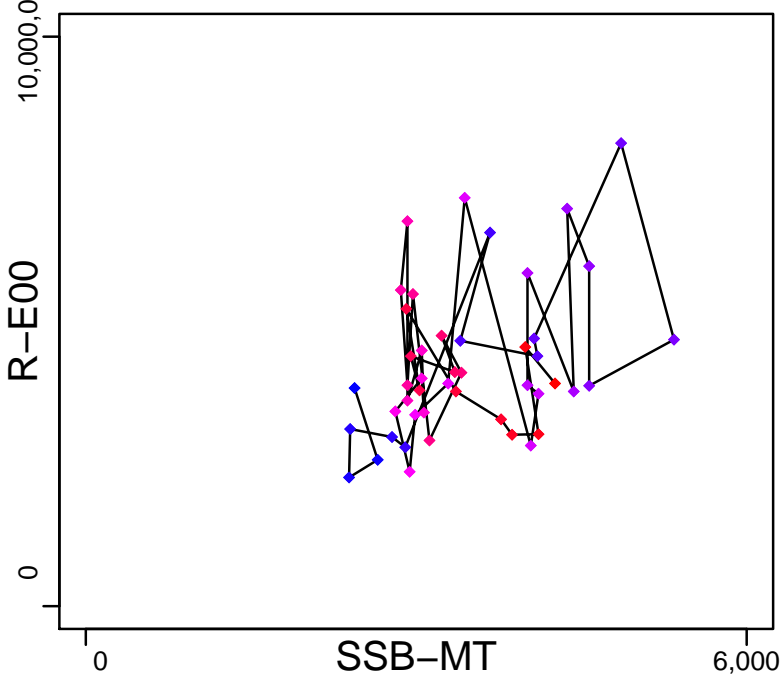
Kobe MSYpref (1967–2016–ICESIMP2016)



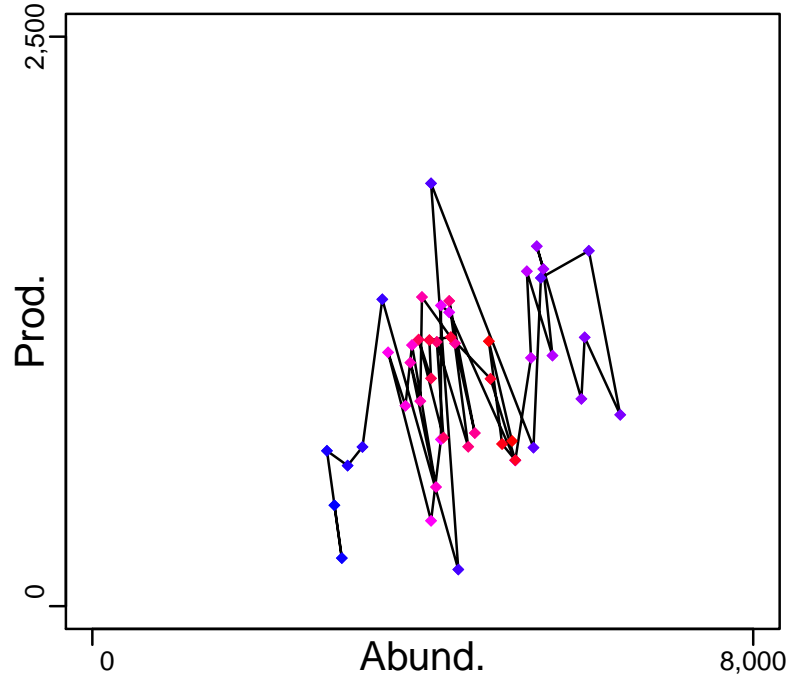
Kobe MGTpref (1967–2016–ICESIMP2016)



Spawner Recruit (1967–2016–ICESIMP2016)



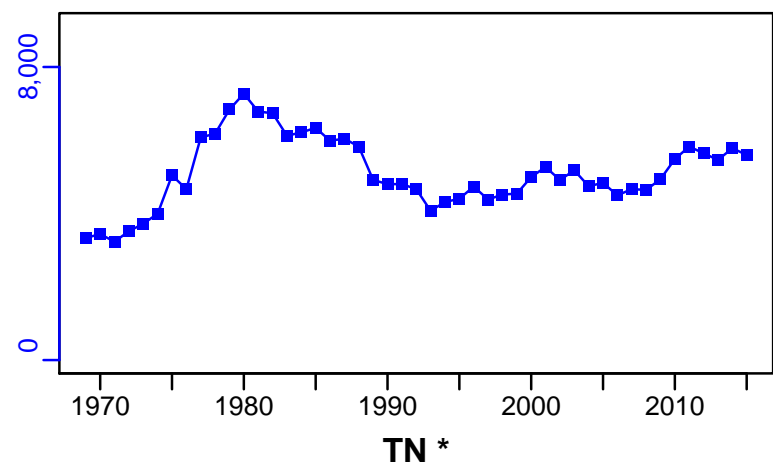
Production (1967–2016–ICESIMP2016)



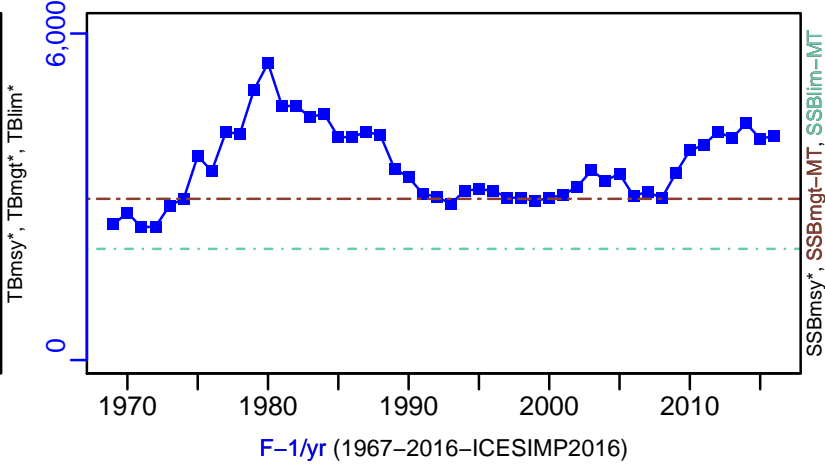
◆ Start Year ◆ End Year \* No Data

# Common sole Western English Channel [SOLEVile]

TB-MT (1967–2016–ICESIMP2016)



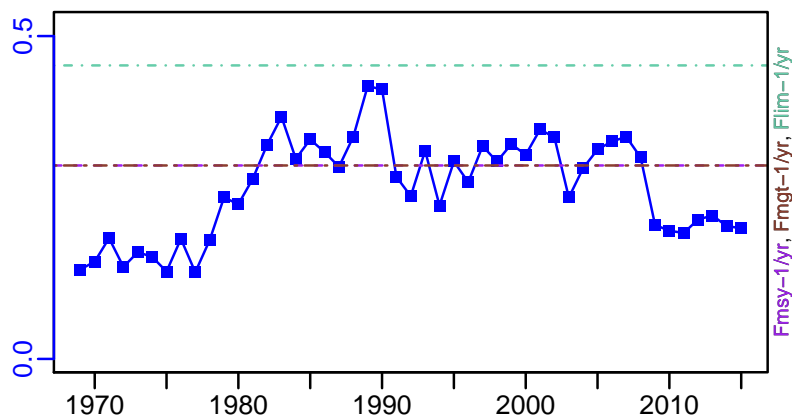
SSB-MT (1967–2016–ICESIMP2016)



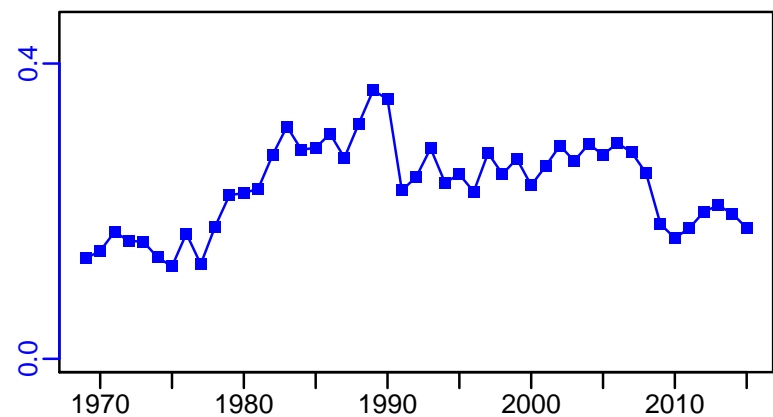
TN \*



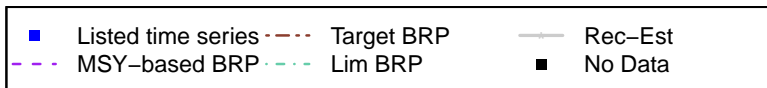
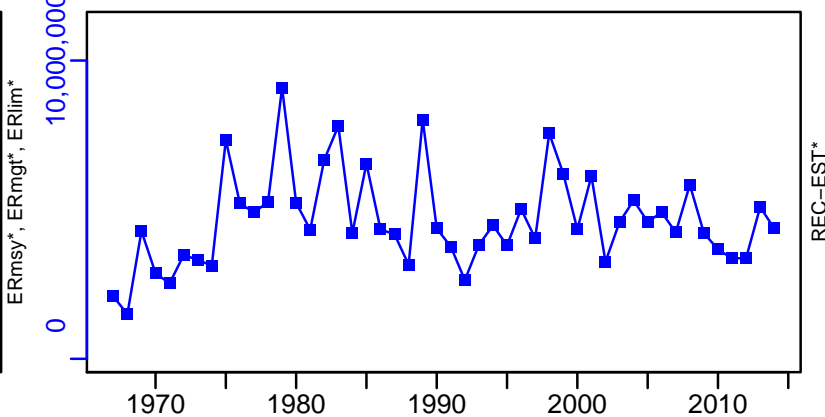
F-1/yr (1967–2016–ICESIMP2016)



ER-calc-ratio (1967–2016–ICESIMP2016)



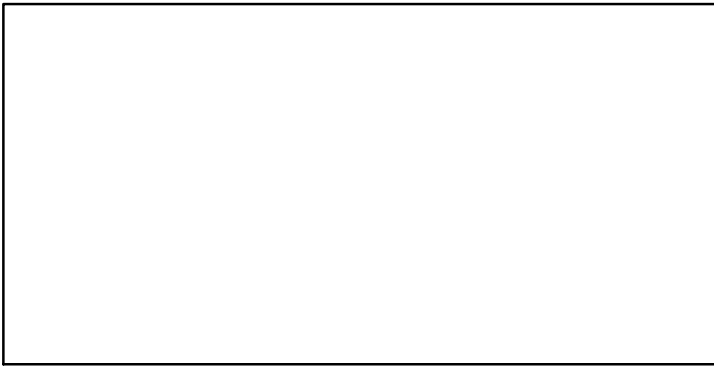
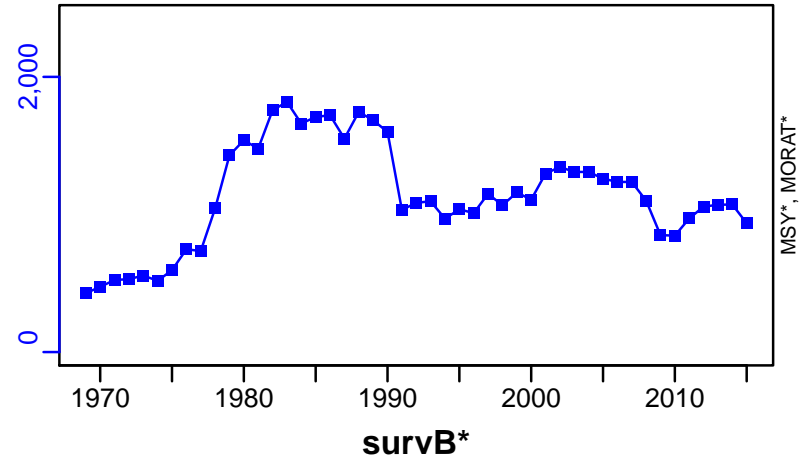
R-E00 (1967–2016–ICESIMP2016)



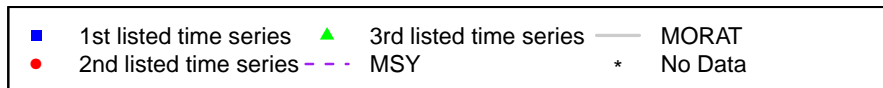
# Common sole Western English Channel [SOLEVile]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





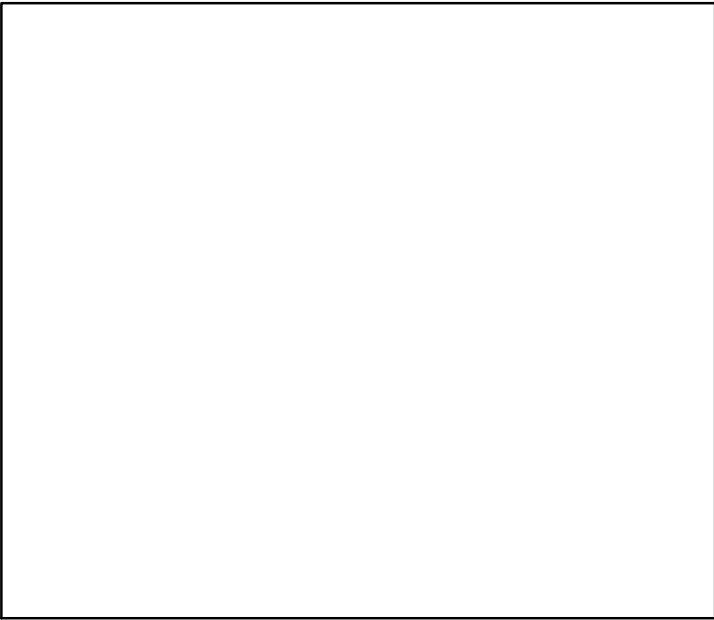
### Common sole VIIh-k [SOLEVIIh-k]

Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGCSE-SOLEVIIh-k-1990-2016-ICESIMP2016
<b>Area</b>	VIIh-k
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2014, 2015, 2016

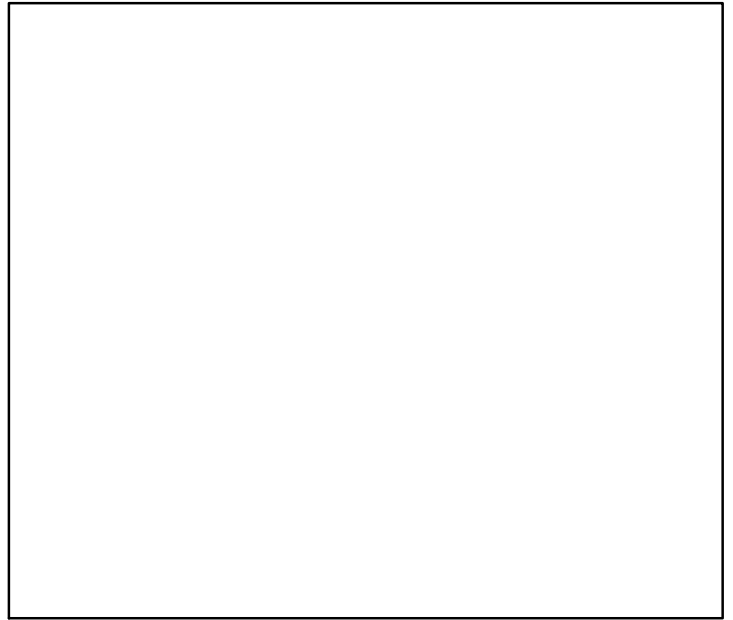
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2016	1.38	Both	-
TN	-	-	-	-	-
R	R-relative	2016	1.66	-	3
F	F-relative	2016	0.489	-	3 to 6
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	244		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

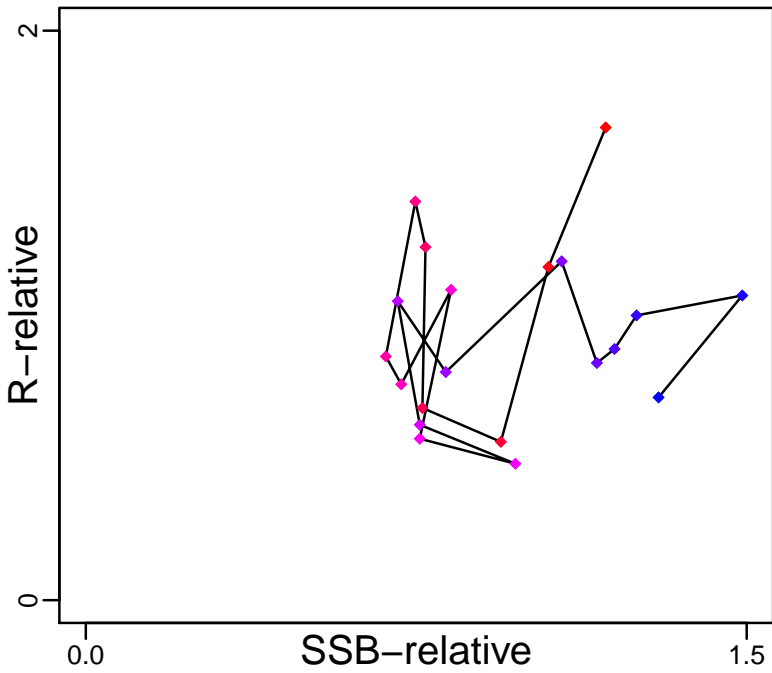
**Kobe MSY\***



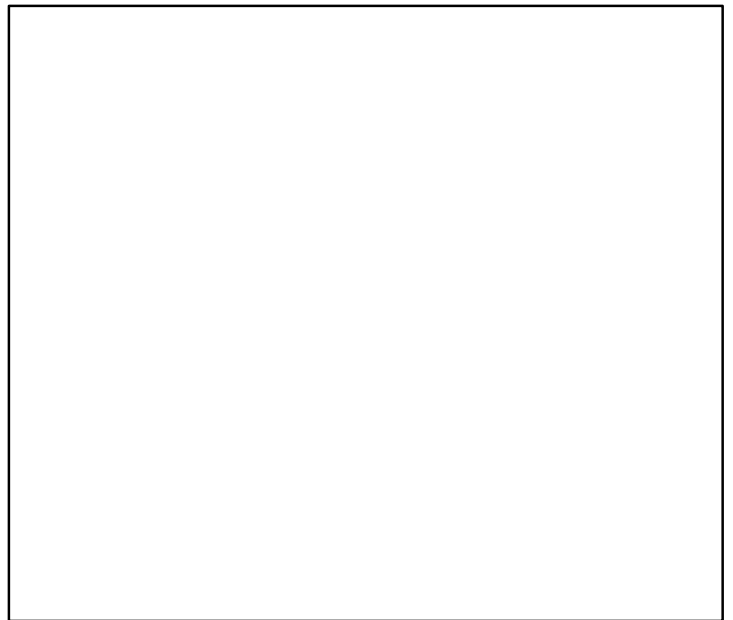
**Kobe MGT\***



Spawner Recruit (1990–2016–ICESIMP2016)



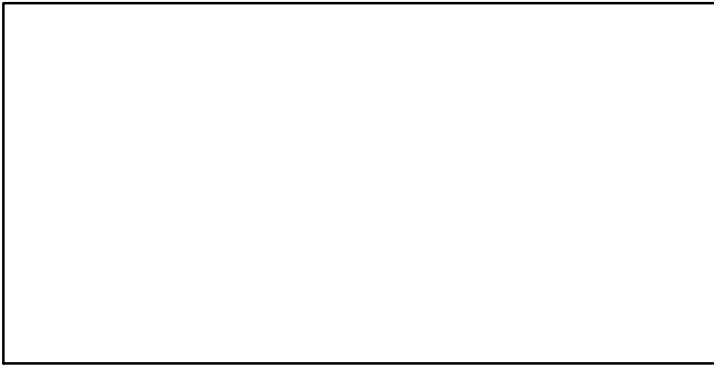
**Production\***



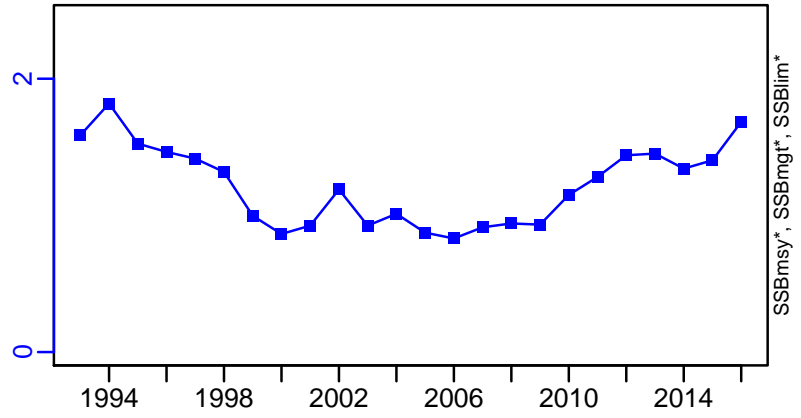
◆ Start Year ◆ End Year \* No Data

Common sole VIIh-k [SOLEVIIh-k]

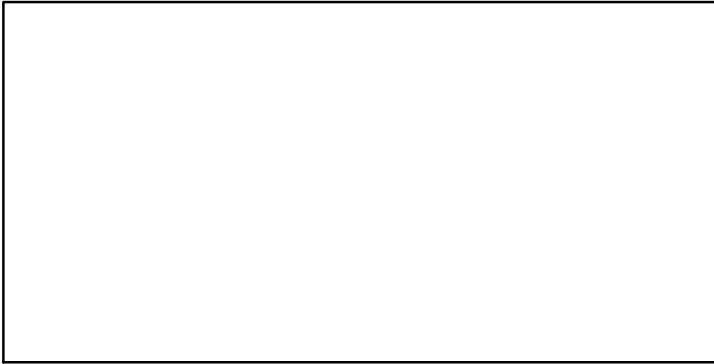
TB\*



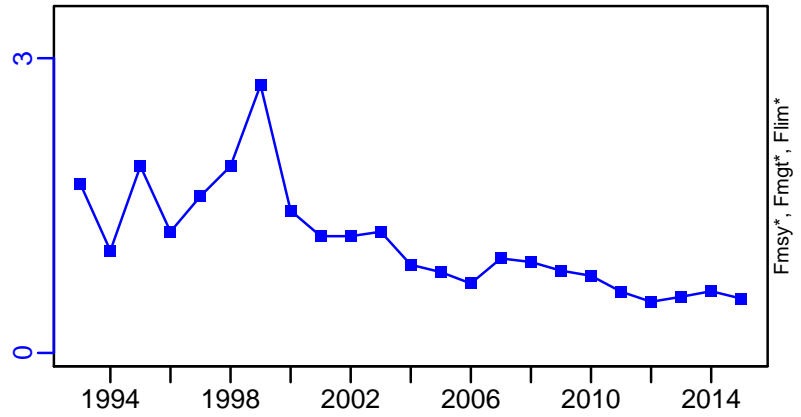
SSB-relative (1990-2016-ICESIMP2016)



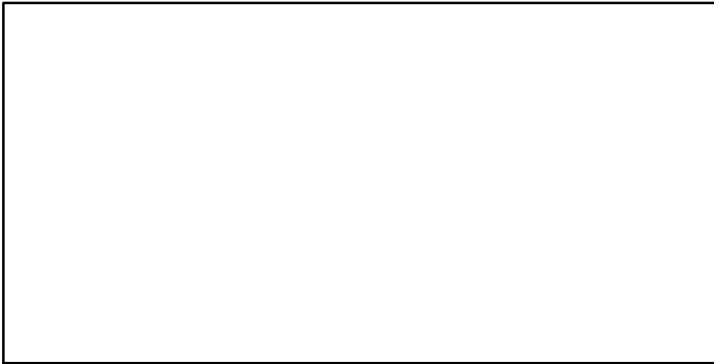
TN \*



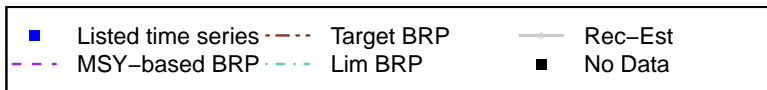
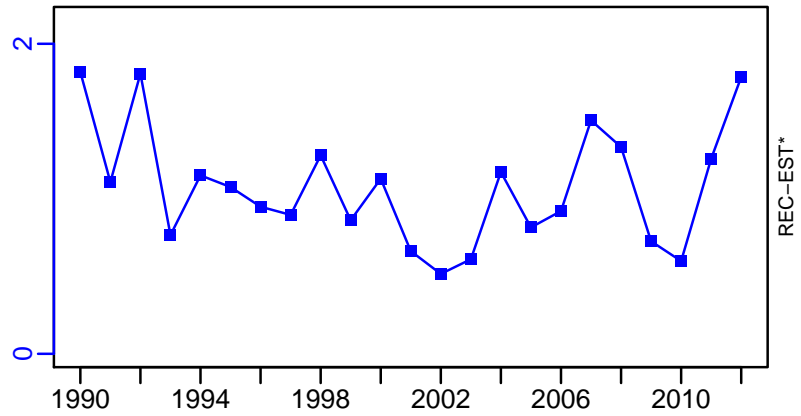
F-relative (1990-2016-ICESIMP2016)



ER\*



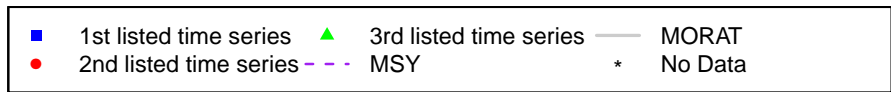
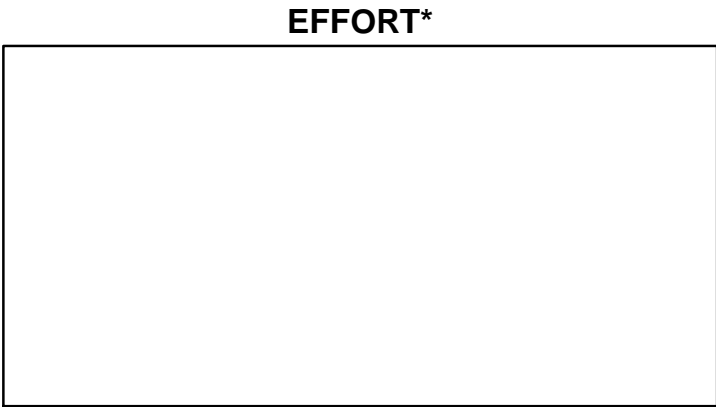
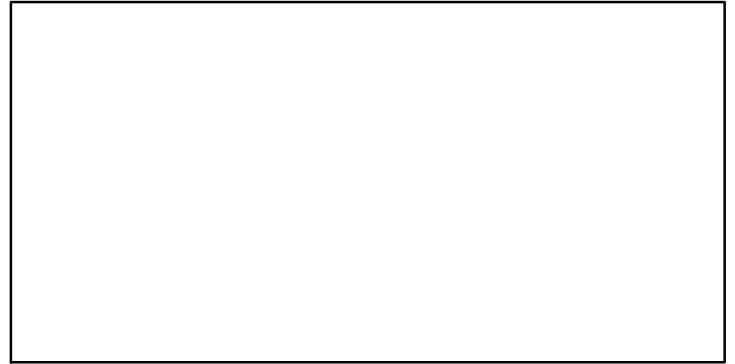
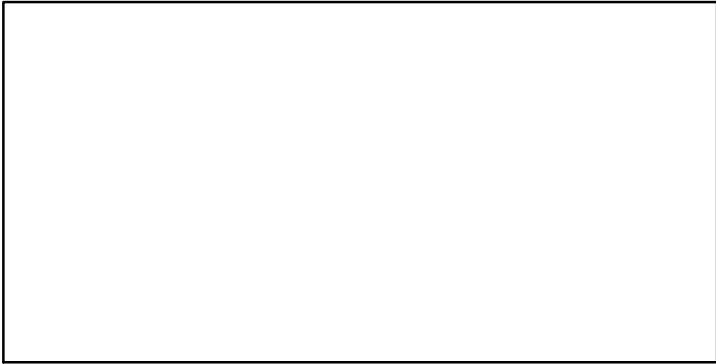
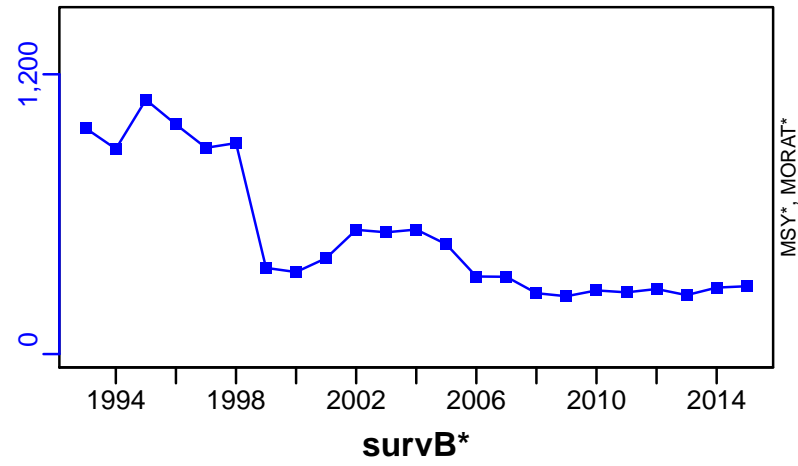
R-relative (1990-2016-ICESIMP2016)



# Common sole VIIh-k [SOLEVIIh-k]

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

TAC\*, Cpair\*, Cadv\*



## Common sole Villab [SOLEVillab]

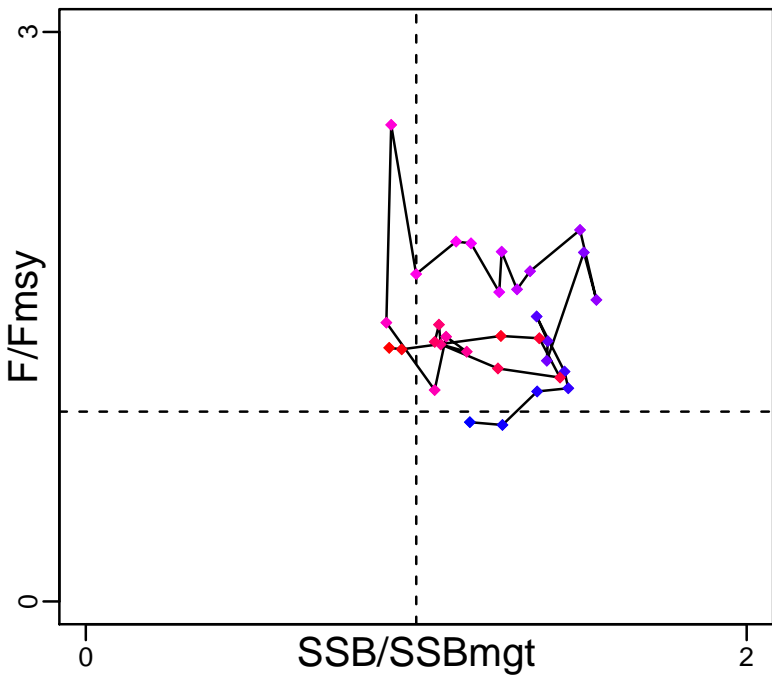
Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	WGBIE-SOLEVillab-1982-2016-ICESIMP2016
<b>Area</b>	Villab
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts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

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

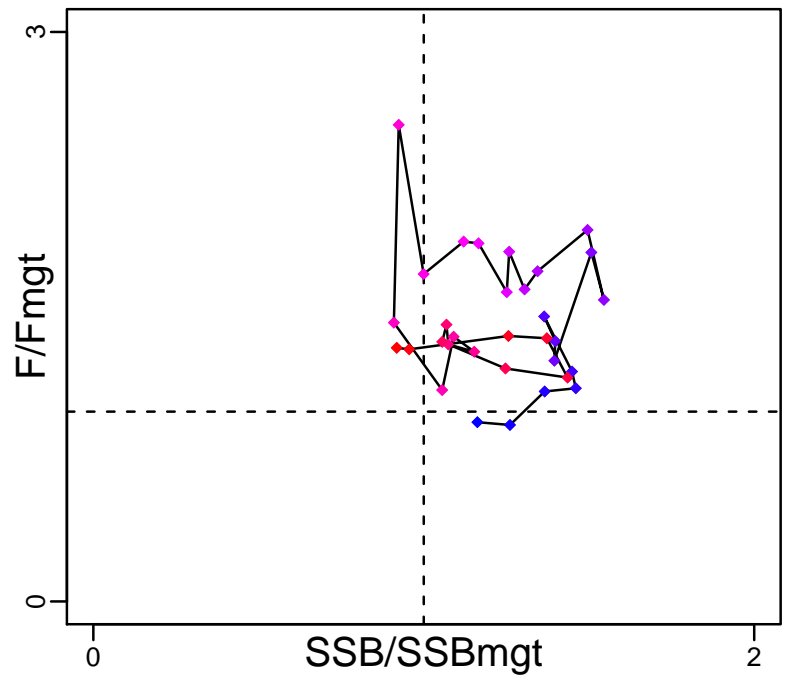
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	14,200	Both	-
<b>SSB</b>	SSB-MT	2016	10,600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	21,300,000	-	2
<b>F</b>	F-1/yr	2016	0.441	-	3 to 6
<b>ER</b>	ER-calc-ratio	2016	0.278	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	3640		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.336		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.004		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.336		
<b>ER/ERmgt</b>	-	-	-		

Common sole Villab [SOLEVillab]

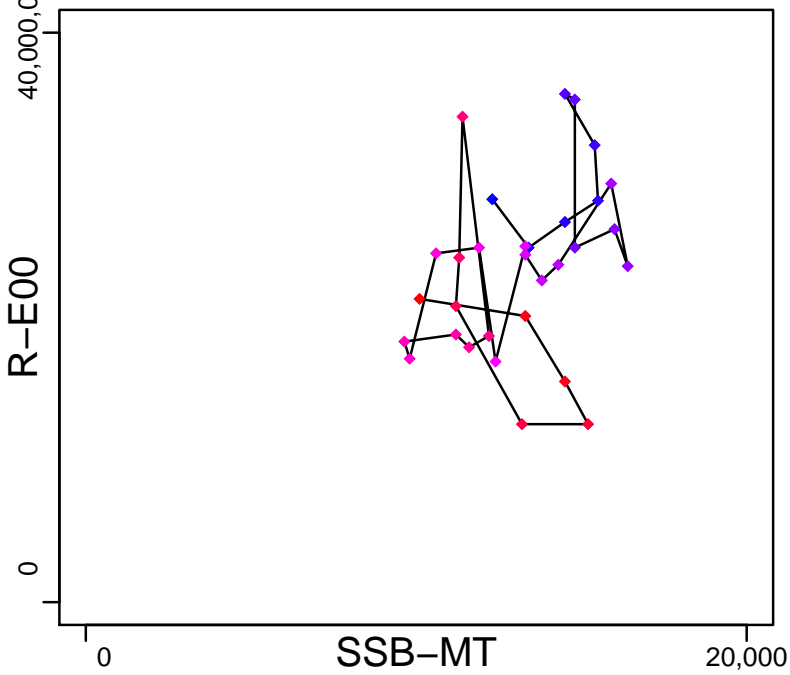
Kobe MSYpref (1982–2016–ICESIMP2016)



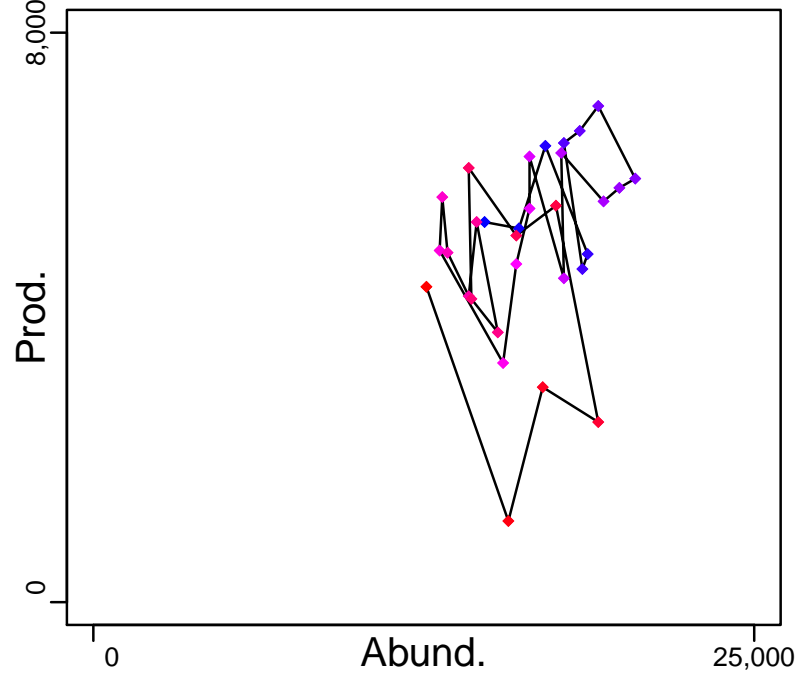
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



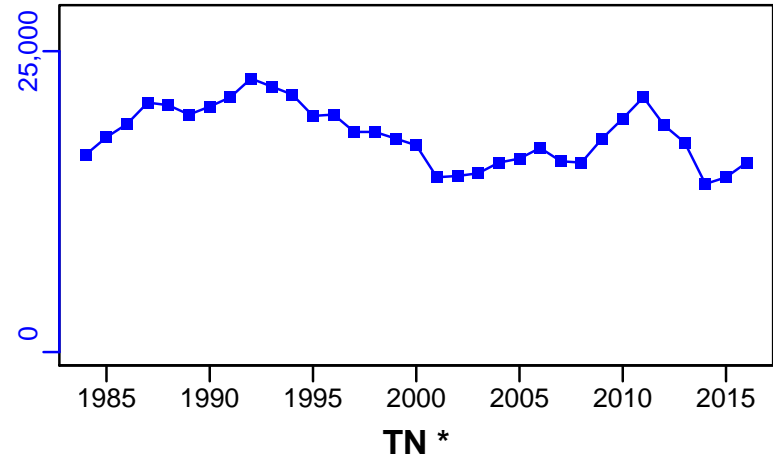
Production (1982–2016–ICESIMP2016)



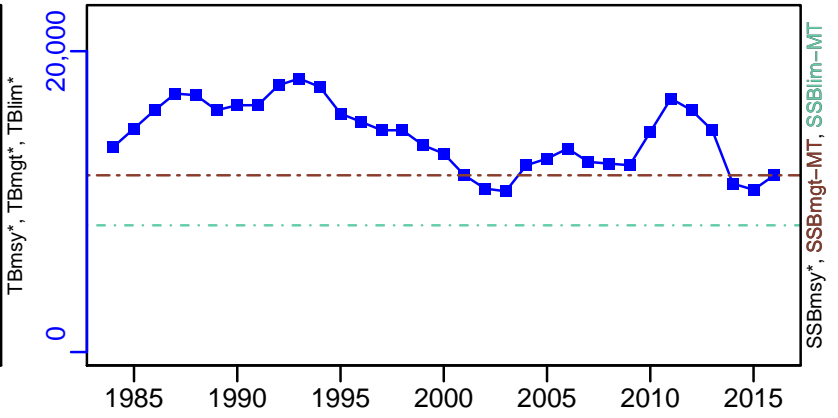
◆ Start Year ◆ End Year \* No Data

# Common sole Villab [SOLEVillab]

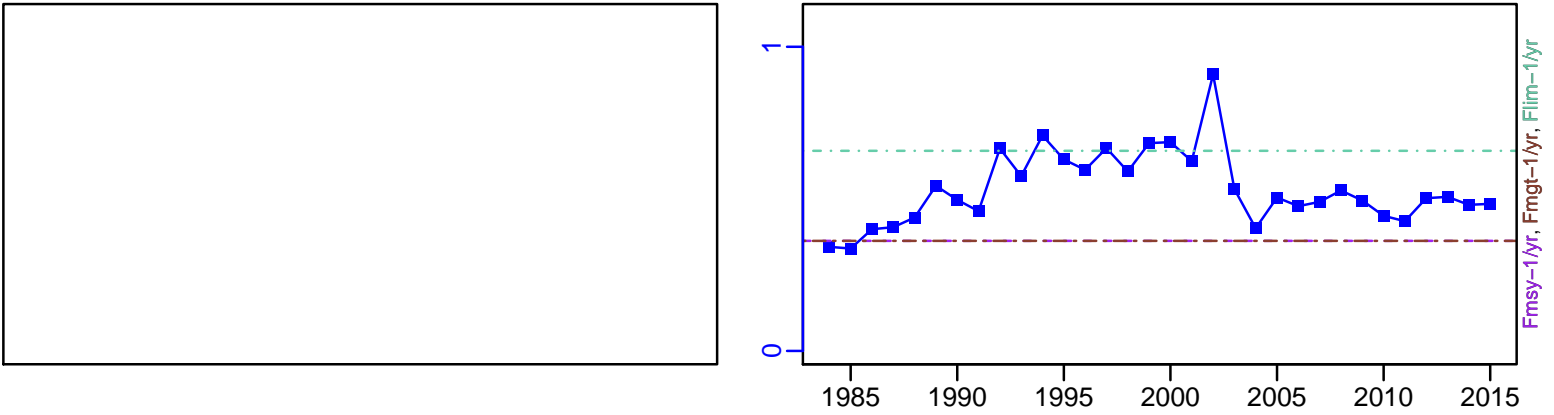
TB-MT (1982–2016–ICESIMP2016)



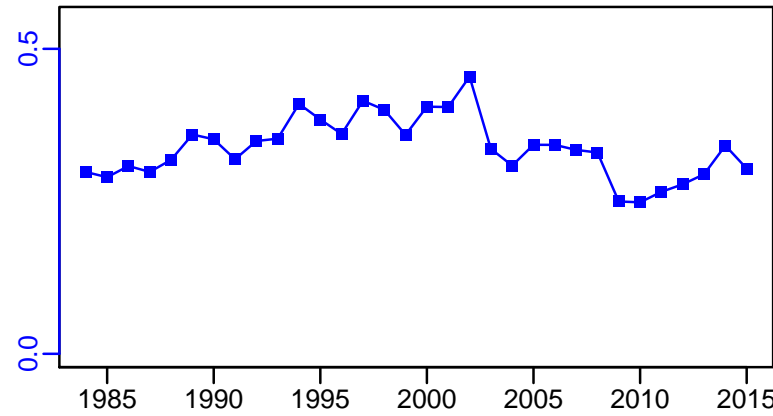
SSB-MT (1982–2016–ICESIMP2016)



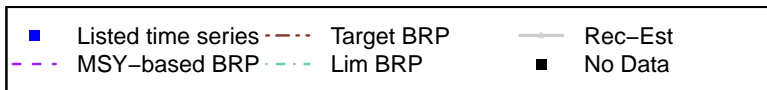
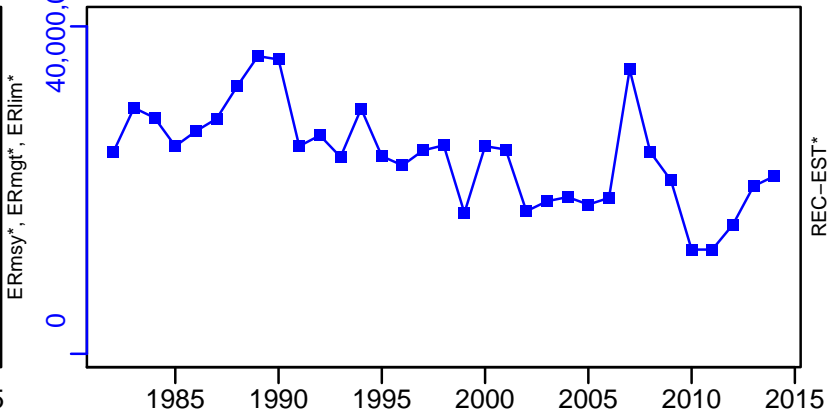
F-1/yr (1982–2016–ICESIMP2016)



ER-calc-ratio (1982–2016–ICESIMP2016)



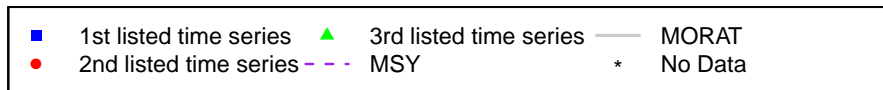
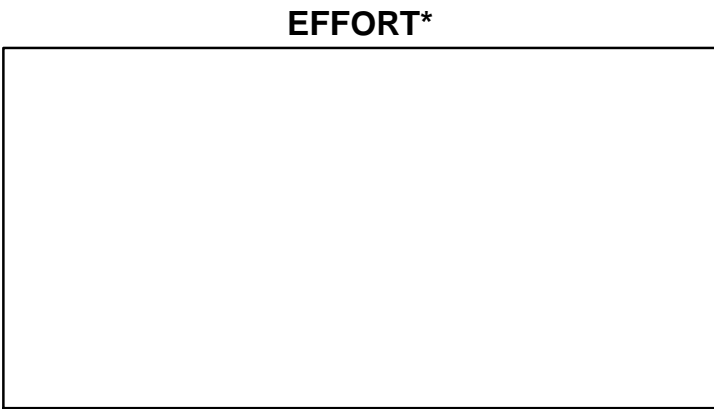
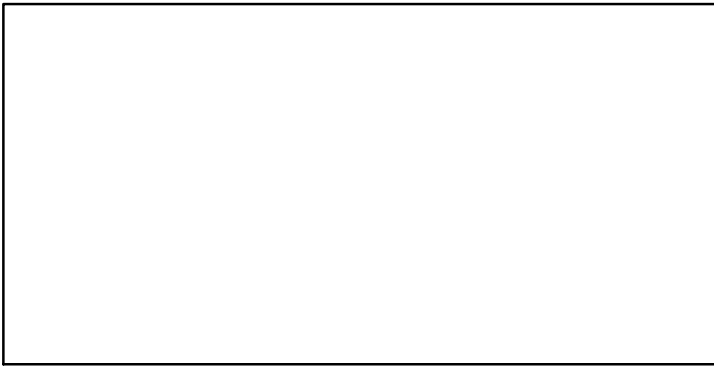
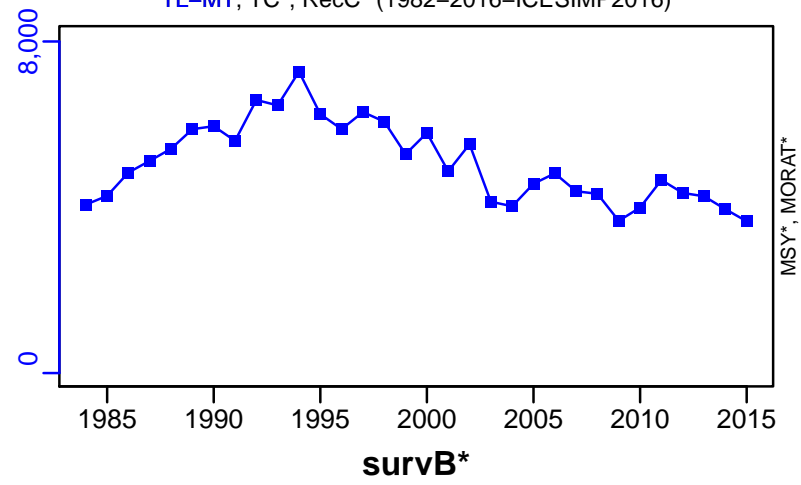
R-E00 (1982–2016–ICESIMP2016)



# Common sole Villab [SOLEVillab]

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

TAC\*, Cpair\*, Cadv\*





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

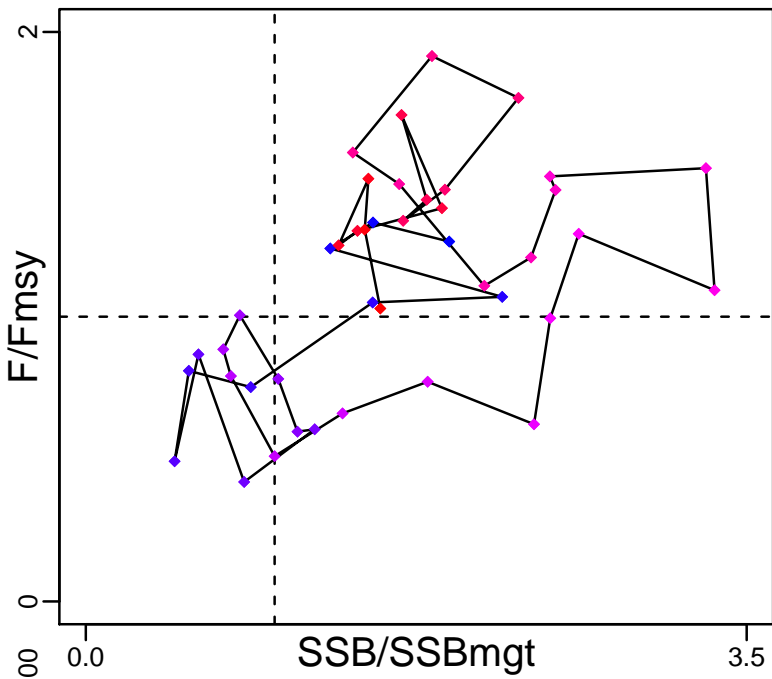
Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	WGBFAS-SPRAT22-32-1973-2016-ICESIMP2016
<b>Area</b>	Baltic Areas 22-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.26
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	570,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.26
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	410,000
<b>Flim</b>	Flim-1/yr	2016	0.39
<b>ERlim</b>	-	-	-

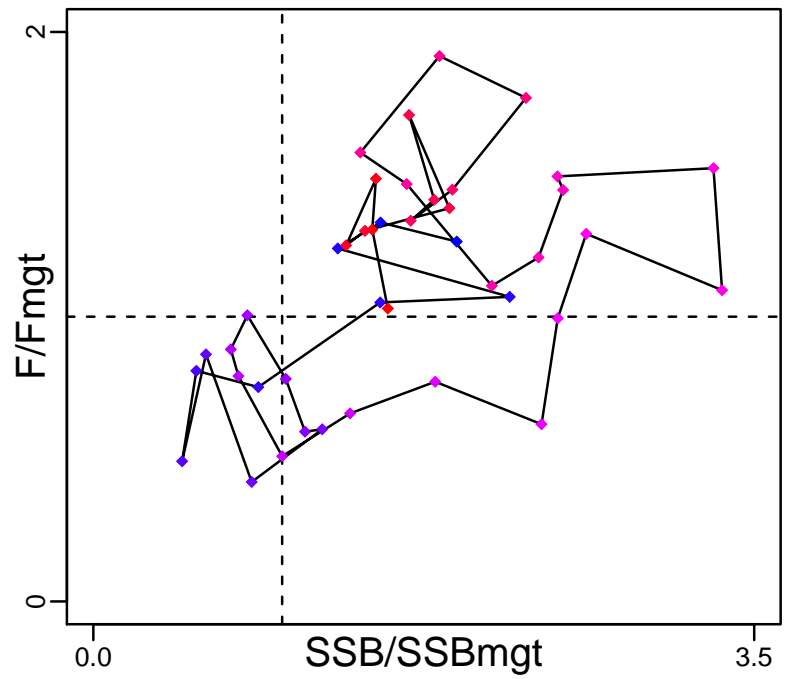
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	2,040,000	Both	-
<b>SSB</b>	SSB-MT	2016	1,340,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$8.72 \times 10^{10}$	-	1
<b>F</b>	F-1/yr	2016	0.268	-	3 to 5
<b>ER</b>	ER-calc-ratio	2016	0.147	-	-
<b>TC</b>	TC-MT	2016	247,000		
<b>TL</b>	TL-MT	2015	244,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.029		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	2.356		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.029		
<b>ER/ERmgt</b>	-	-	-		

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

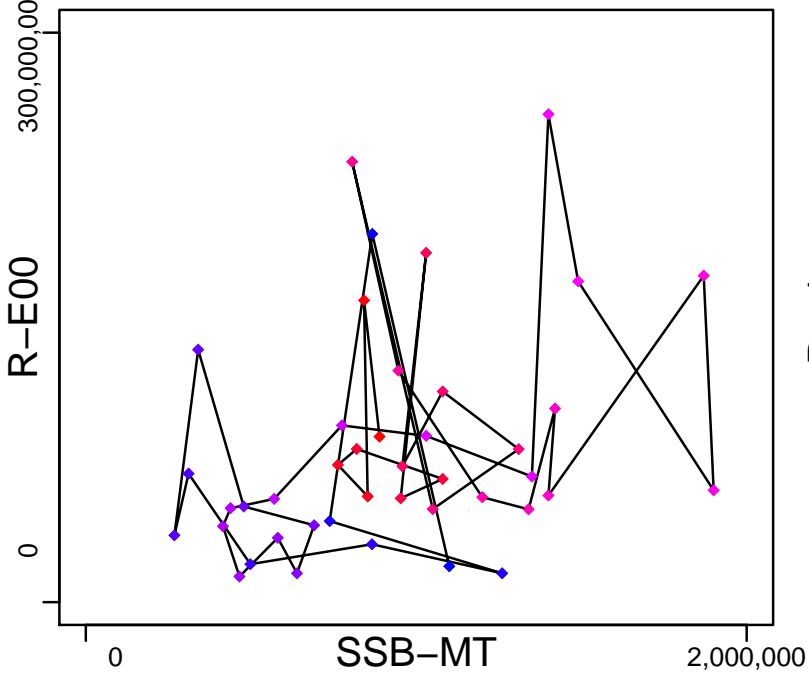
Kobe MSYpref (1973–2016–ICESIMP2016)



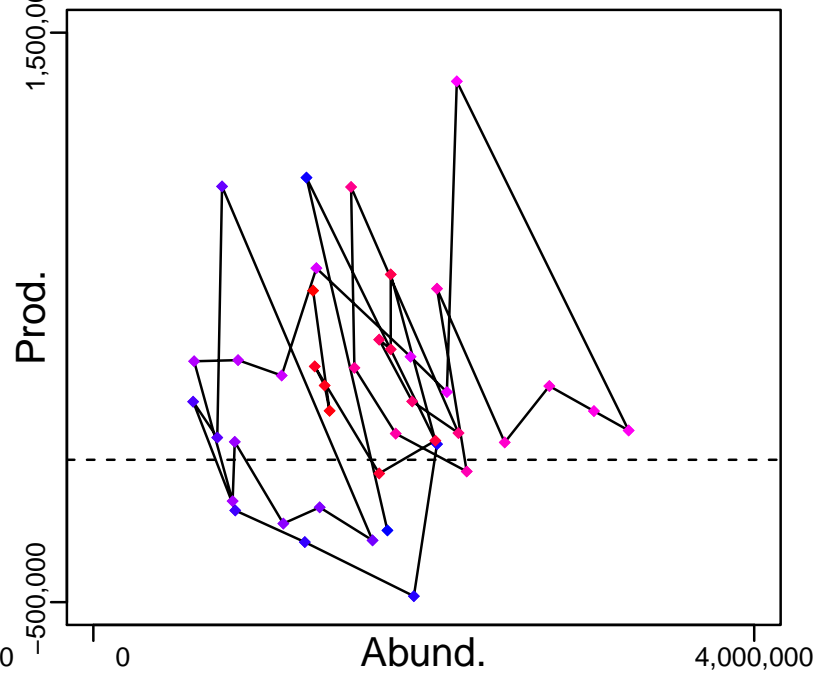
Kobe MGTpref (1973–2016–ICESIMP2016)



Spawner Recruit (1973–2016–ICESIMP2016)



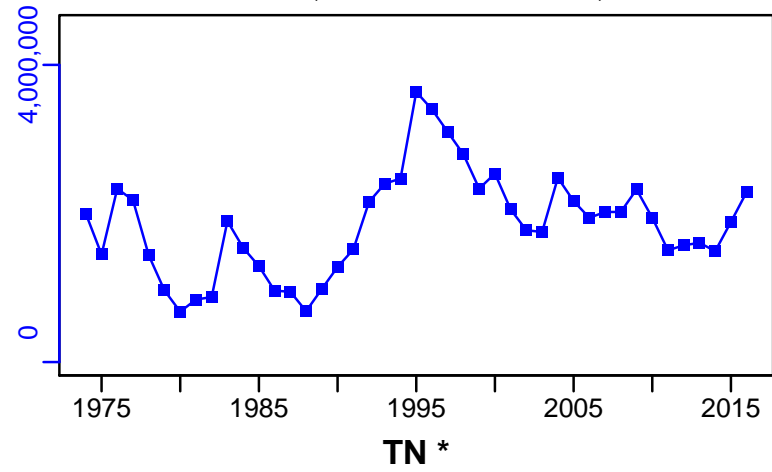
Production (1973–2016–ICESIMP2016)



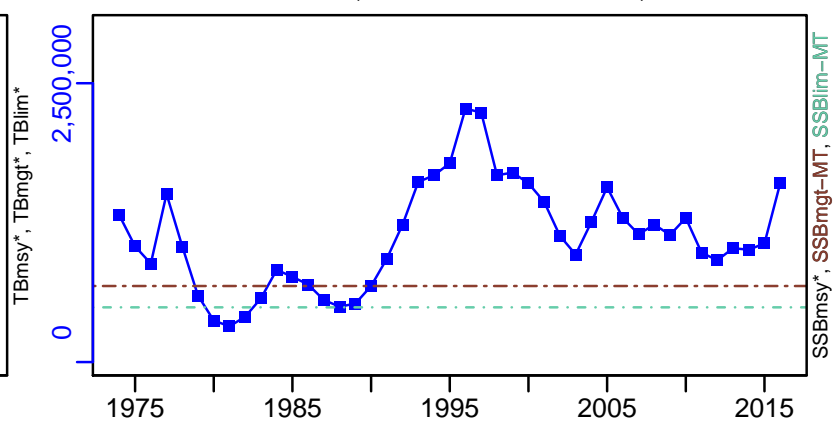
◆ Start Year ◆ End Year \* No Data

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

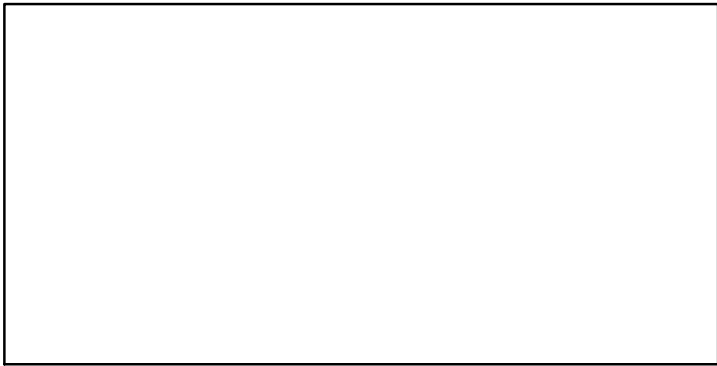
TB–MT (1973–2016–ICESIMP2016)



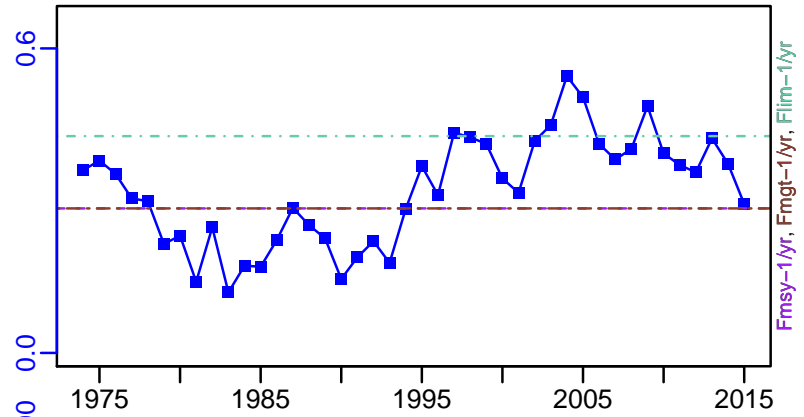
SSB–MT (1973–2016–ICESIMP2016)



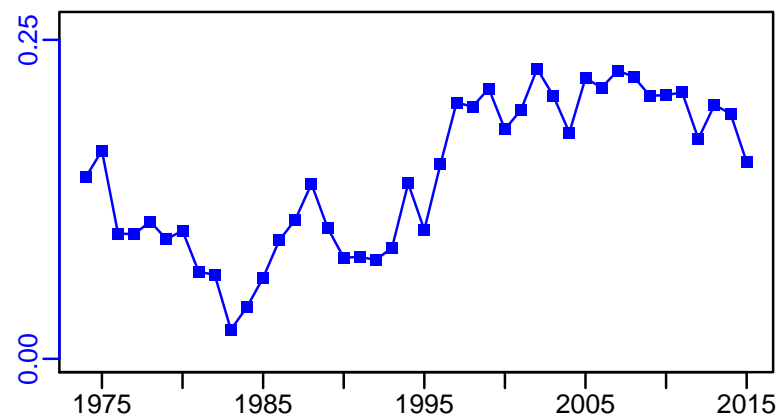
TN \*



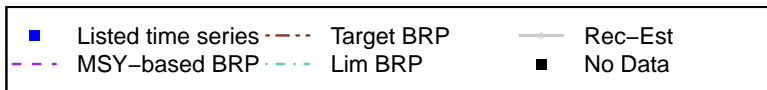
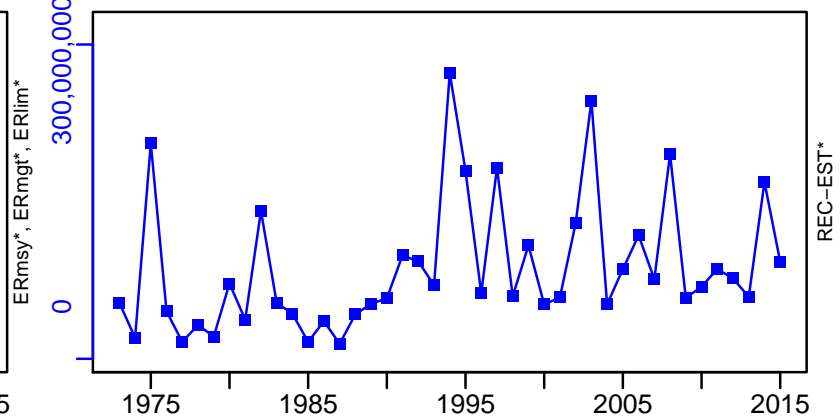
F–1/yr (1973–2016–ICESIMP2016)



ER–calc–ratio (1973–2016–ICESIMP2016)

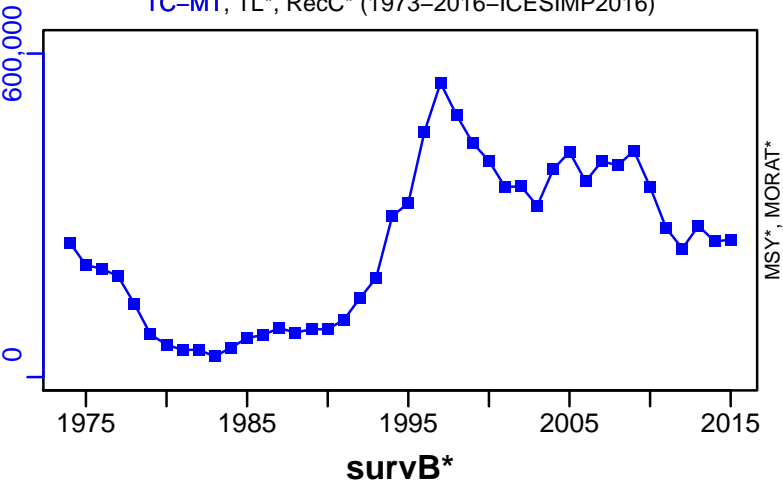


R–E00 (1973–2016–ICESIMP2016)



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

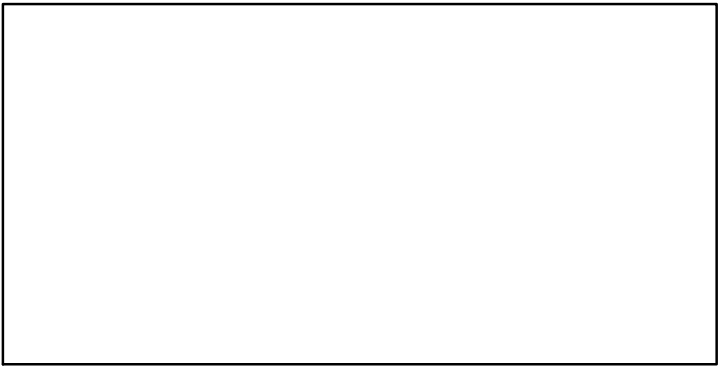
TC–MT, TL\*, RecC\* (1973–2016–ICESIMP2016)



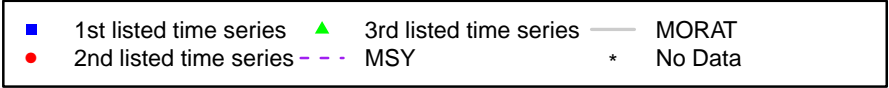
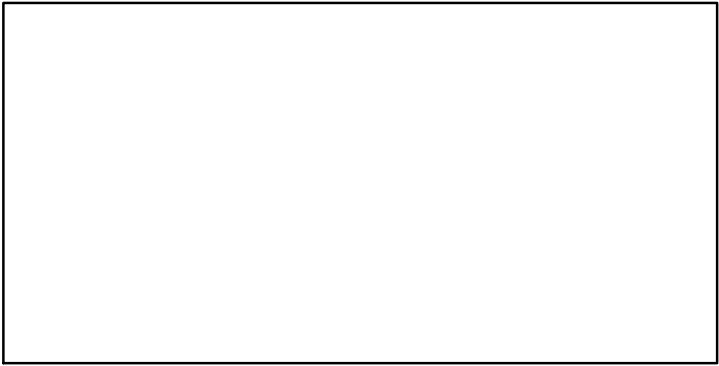
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*

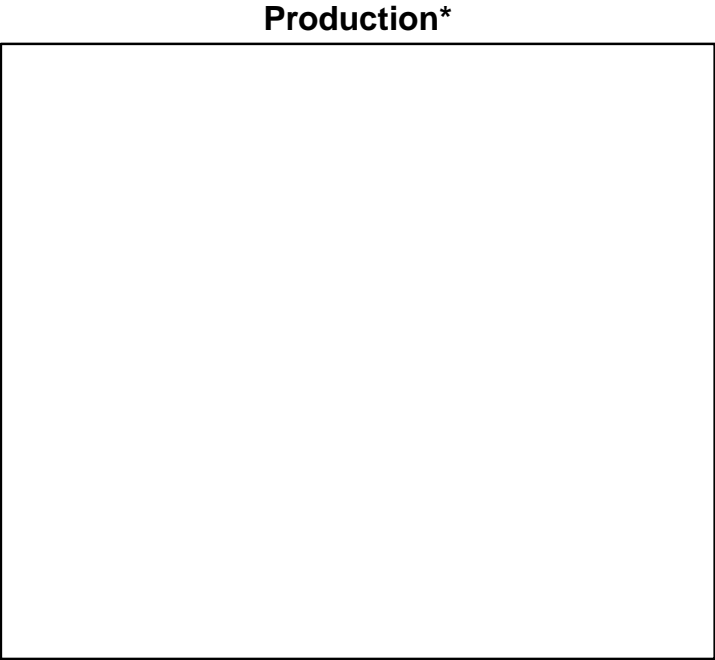
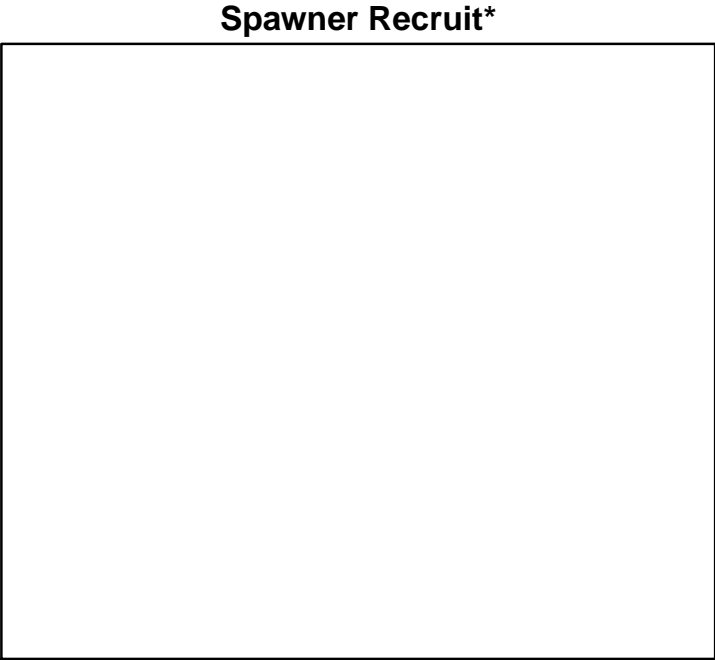
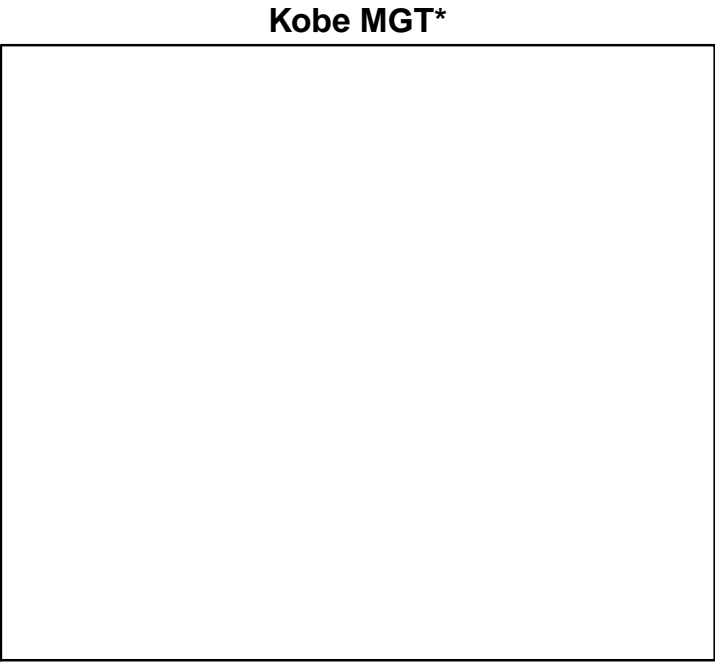
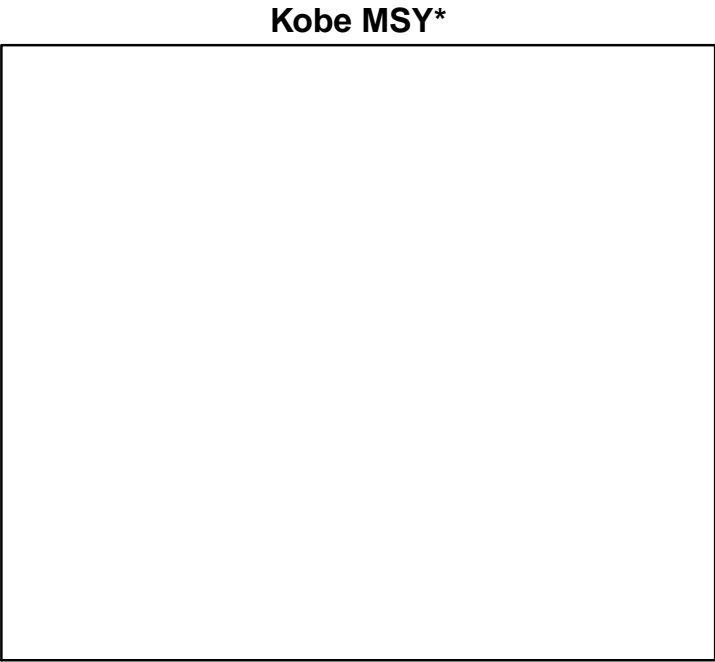


## Sprat Kattegat and Skagerrak [SPRATIIIa]

Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	HAWG-SPRATIIIa-1974-2016-ICESIMP2016
<b>Area</b>	Kattegat and Skagerrak
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	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	-	-	-		



◆ Start Year   ♦ End Year   \* No Data

Sprat Kattegat and Skagerrak [SPRATIIIa]

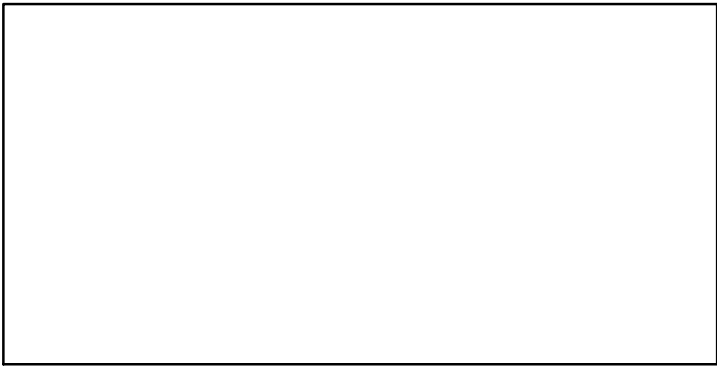
TB\*



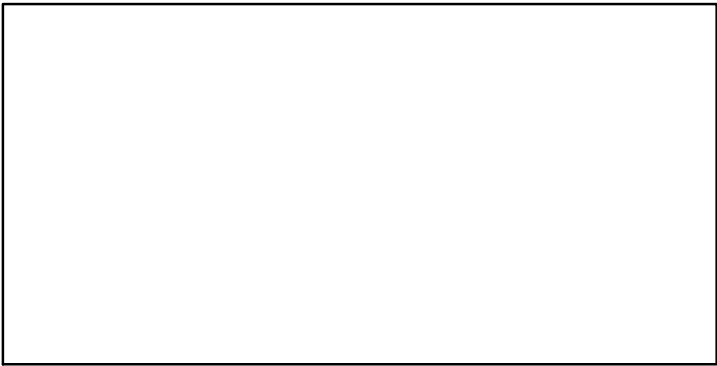
SSB\*



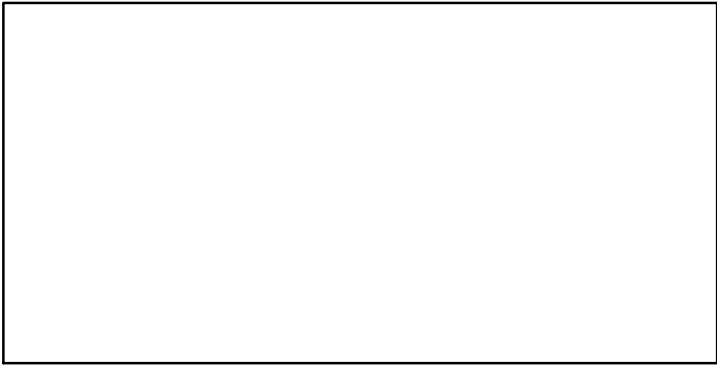
TN \*



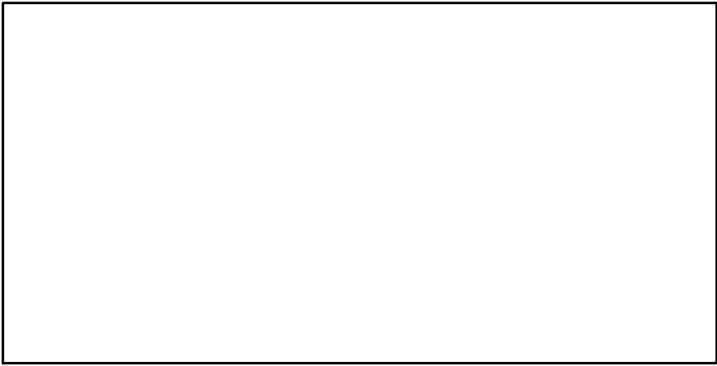
F\*



ER\*

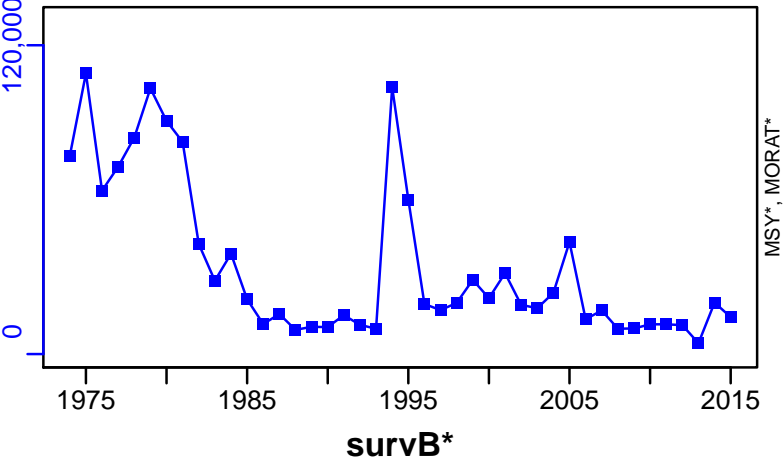


Recruits\*

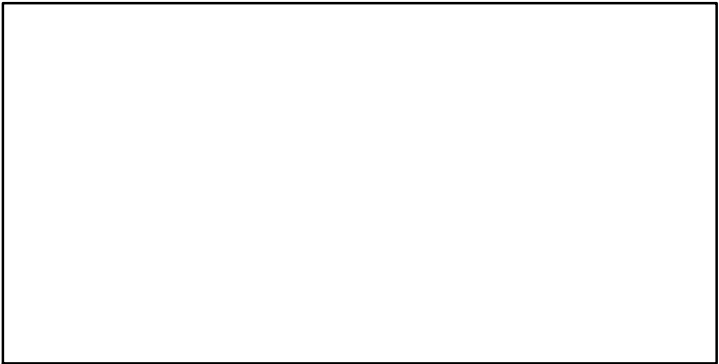


Sprat Kattegat and Skagerrak [SPRATIIIa]

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



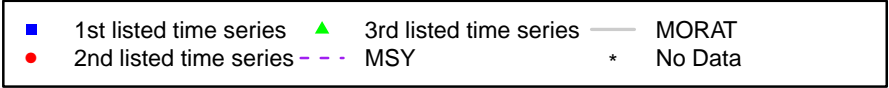
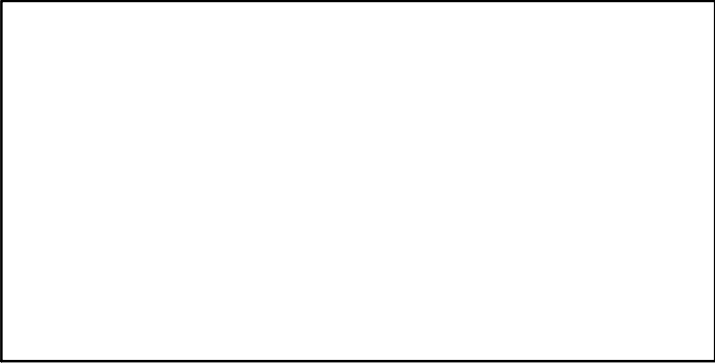
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## Sprat North Sea [SPRATNS]

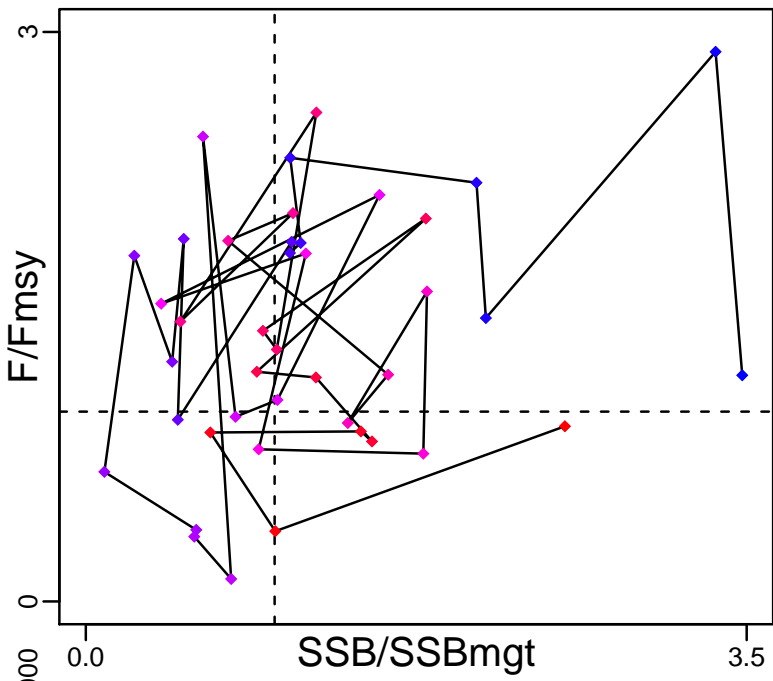
Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	HAWG-SPRATNS-1974-2016-ICESIMP2016
<b>Area</b>	North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.7
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	142,000
<b>Fmgt</b>	Fmgt-1/yr	2015	0.7
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2007	0.75
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	90,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

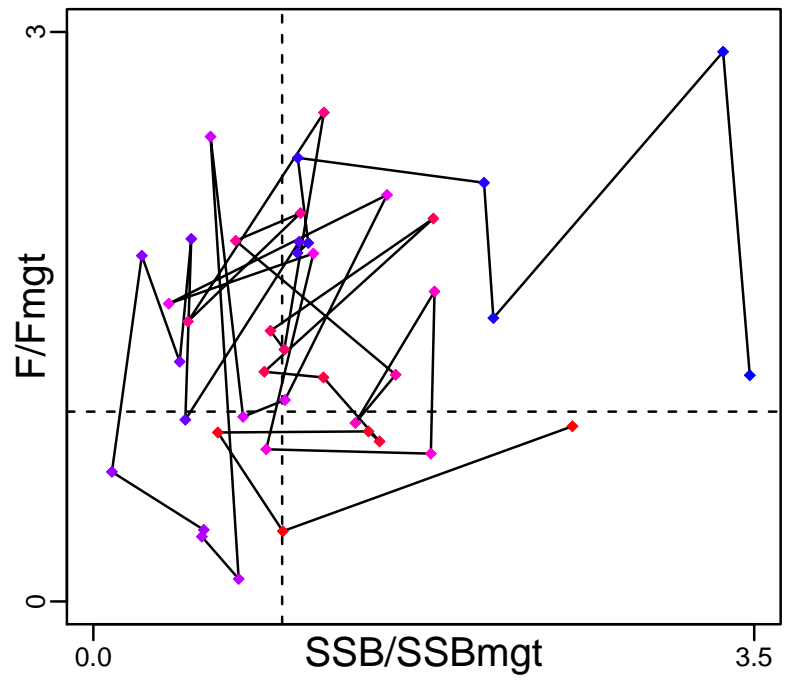
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	2,560,000	Both	-
<b>SSB</b>	SSB-MT	2016	209,000	Both	-
<b>TN</b>	TN-relative	2007	72,900	-	-
<b>R</b>	R-E00	2016	$1.53 \times 10^{11}$	-	0
<b>F</b>	F-1/yr	2016	1.27	-	1 to 2
<b>ER</b>	ER-calc-ratio	2016	0.113	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	290,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.923		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.471		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.923		
<b>ER/ERmgt</b>	-	-	-		

# Sprat North Sea [SPRATNS]

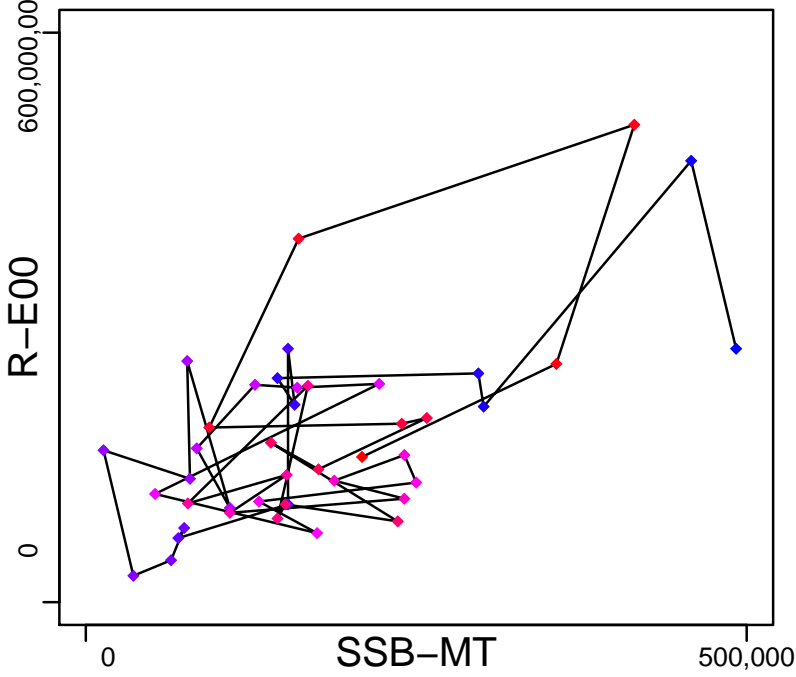
Kobe MSYpref (1974–2015–ICESIMP2016)



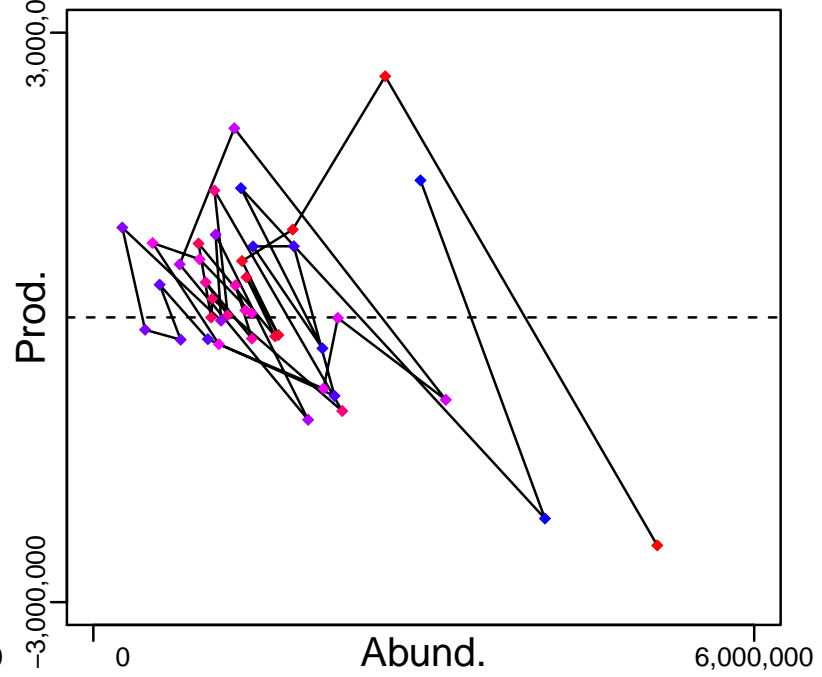
Kobe MGTpref (1974–2015–ICESIMP2016)



Spawner Recruit (1974–2016–ICESIMP2016)

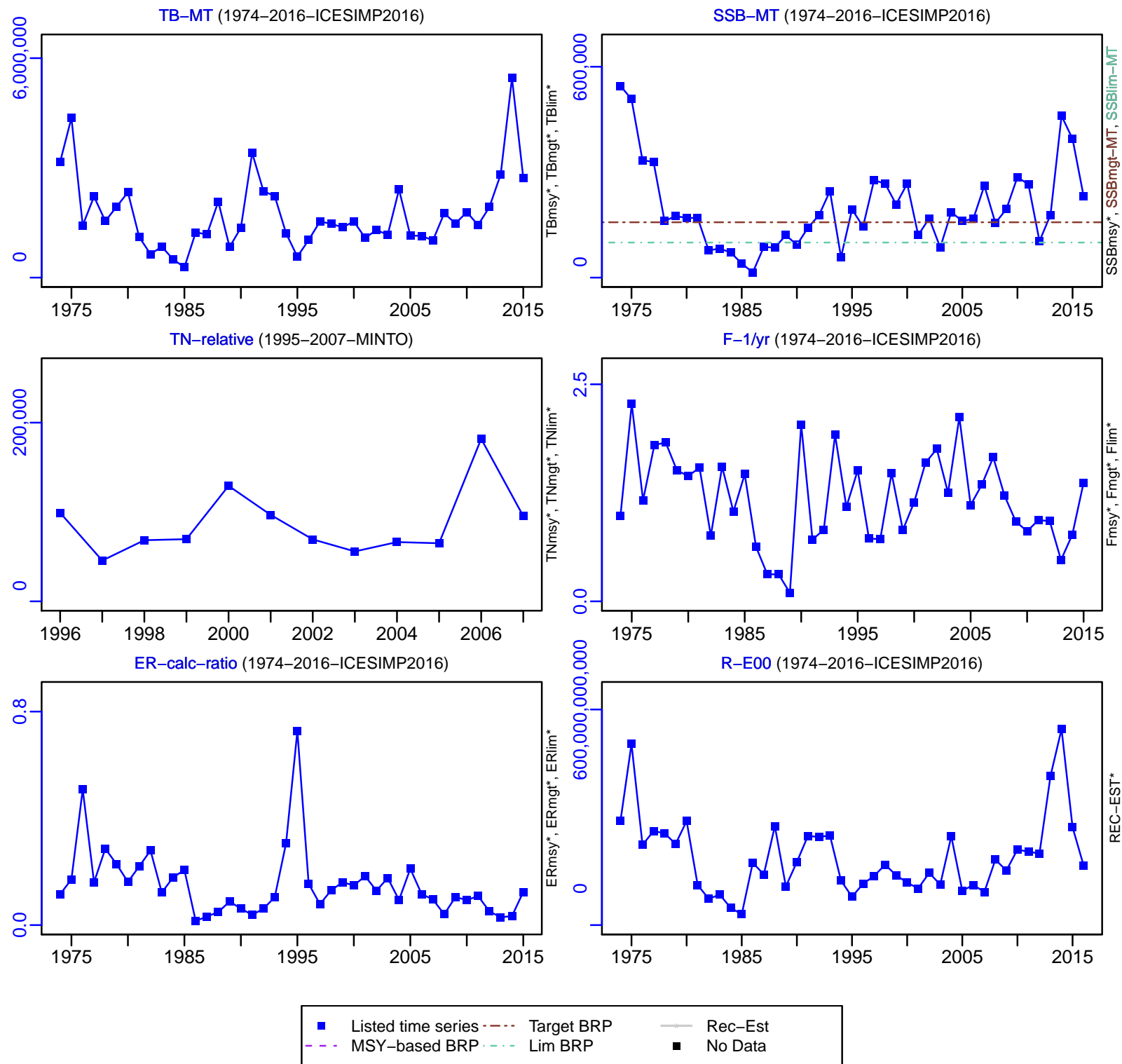


Production (1974–2016–ICESIMP2016)



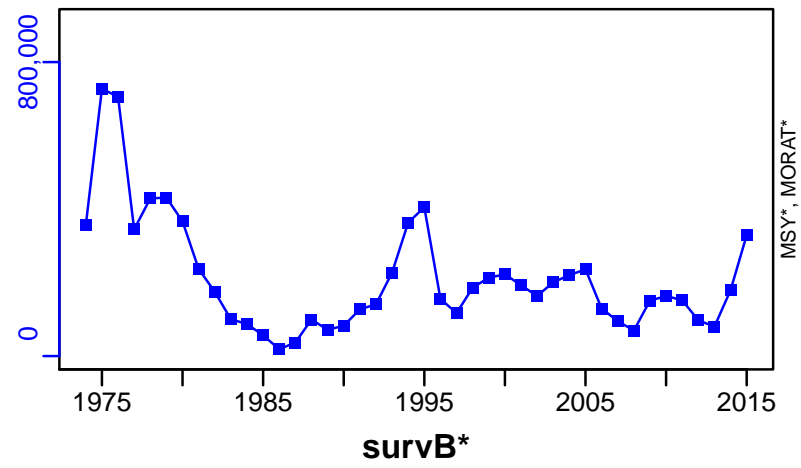
◆ Start Year ◆ End Year \* No Data

# Sprat North Sea [SPRATNS]

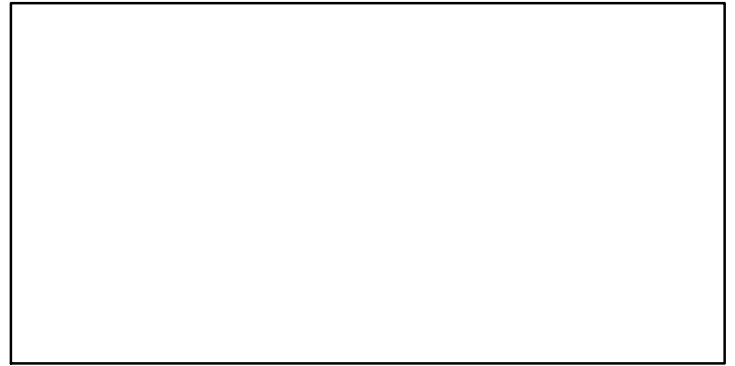


Sprat North Sea [SPRATNS]

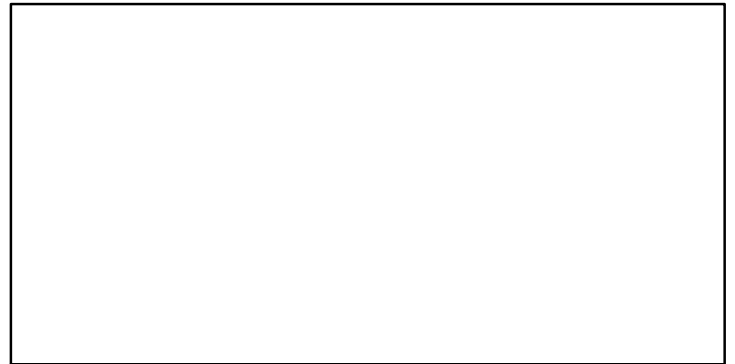
TL-MT, TC\*, RecC\* (1974–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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

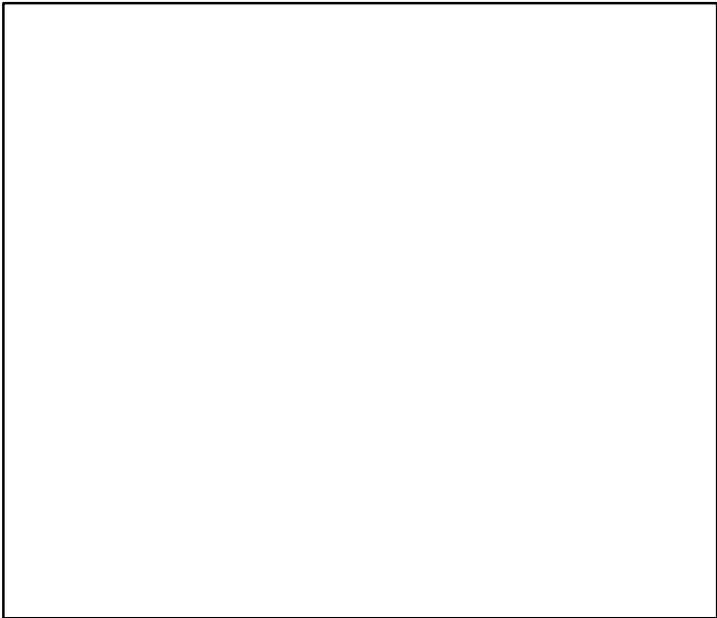
## Sprat VIlde [SPRATVIlde]

Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	HAWG-SPRATVIlde-1985-2016-ICESIMP2016
<b>Area</b>	VIlde
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	2016

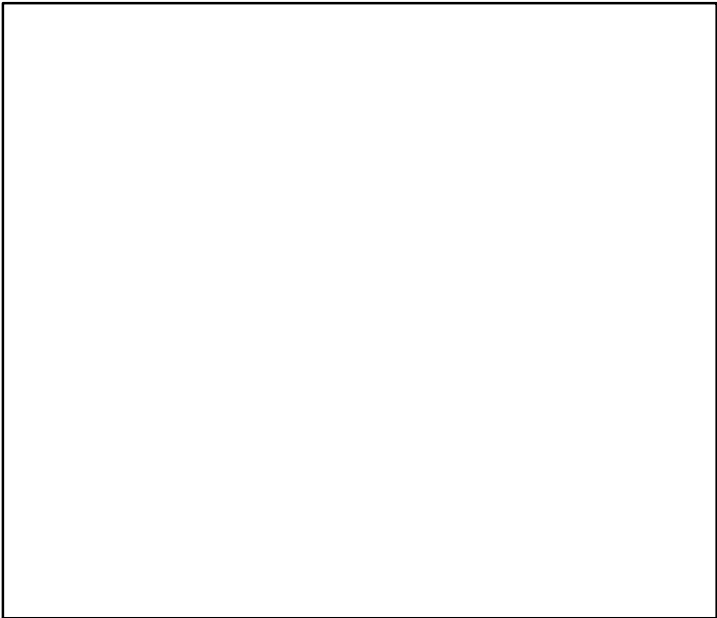
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

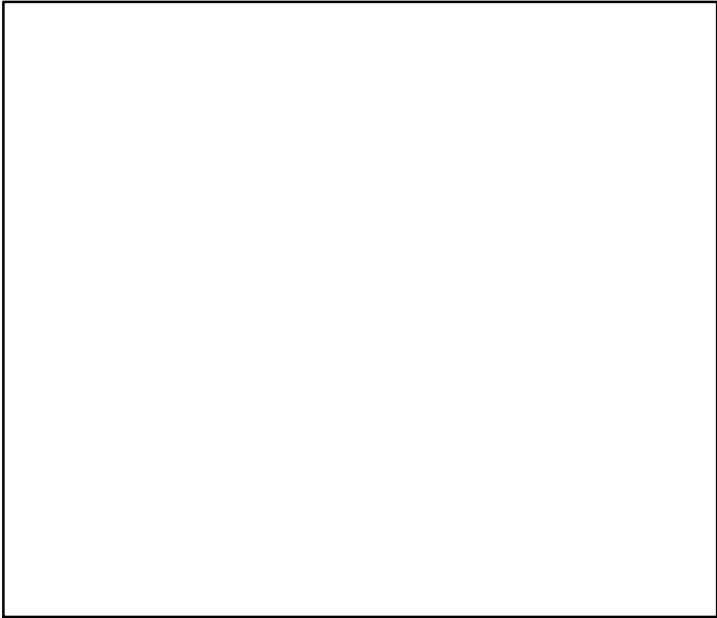
Kobe MSY\*



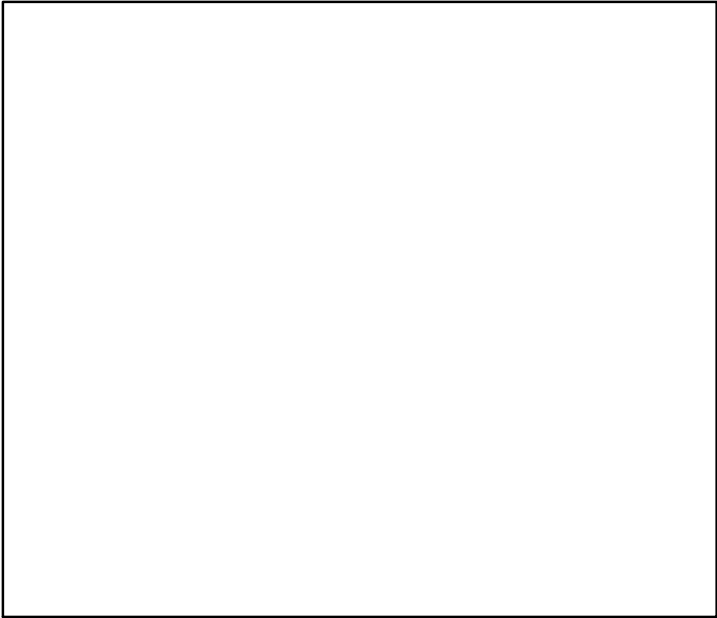
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



F\*



ER\*



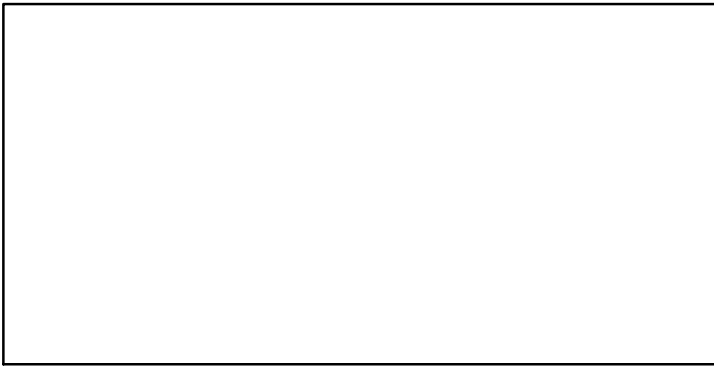
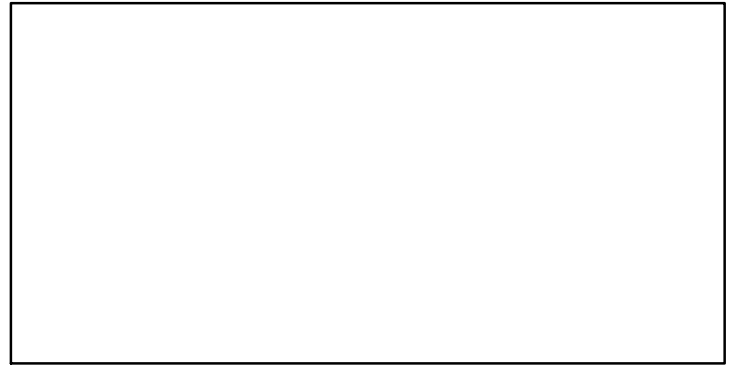
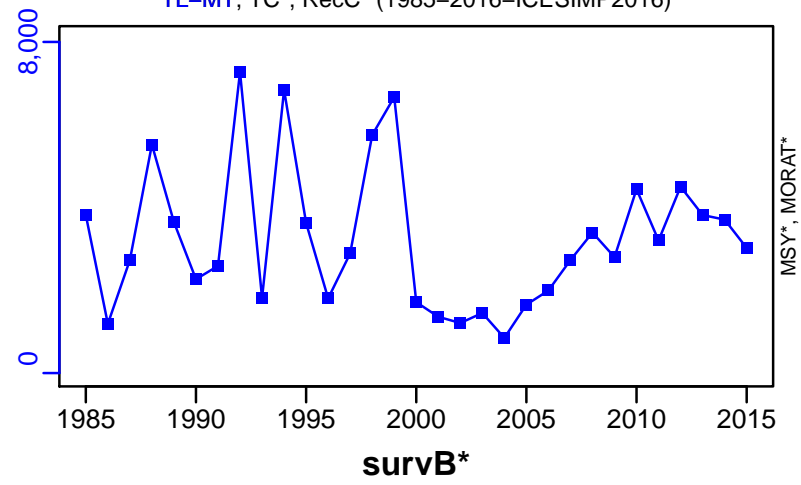
Recruits\*



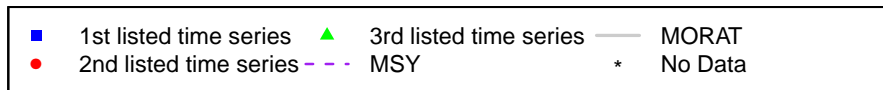
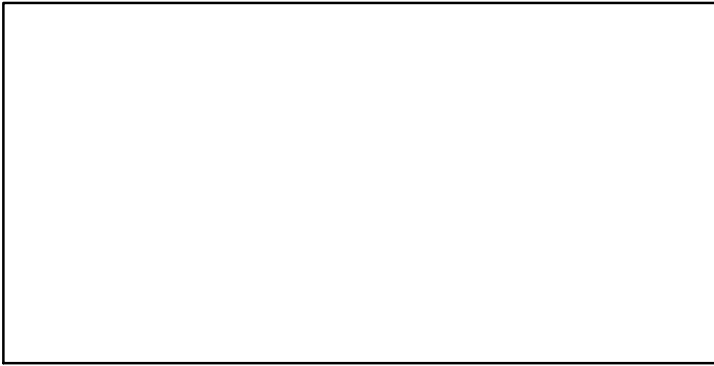
# Sprat Vilde [SPRATVilde]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





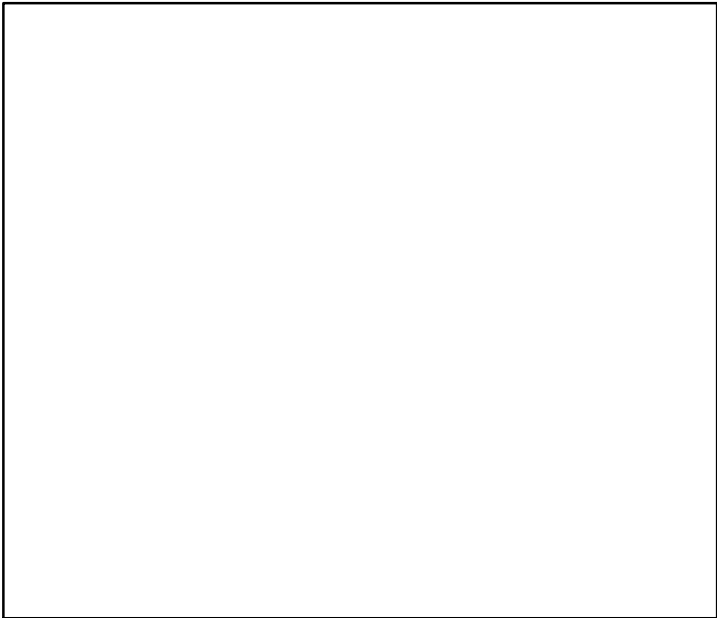
### Sprat VI and VIIabcfghijk [SPRATVI-VIIabcfghijk]

Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	HAWG-SPRATVI-VIIabcfghijk-1985-2015-ICESIMP2016
<b>Area</b>	VI and VIIabcfghijk
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Herring Assessment Working Group for the Area South of 62N
<b>Asmts in RAM</b>	2015

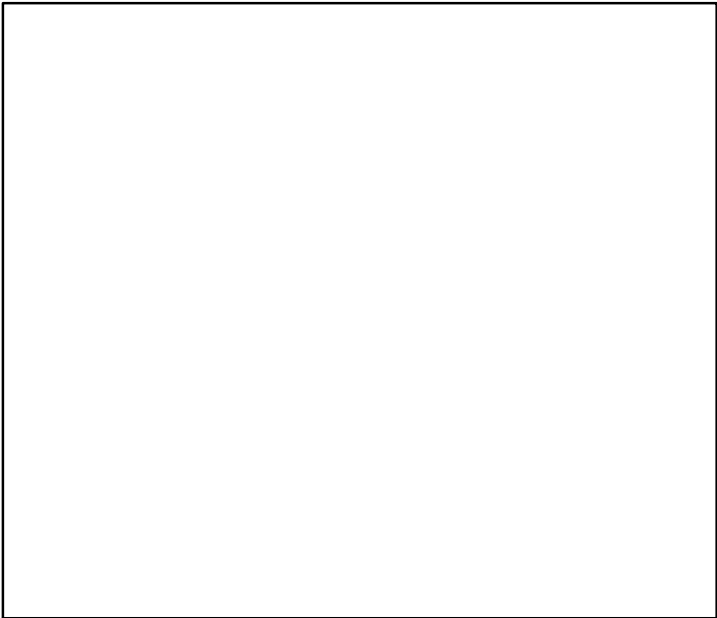
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	4390		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

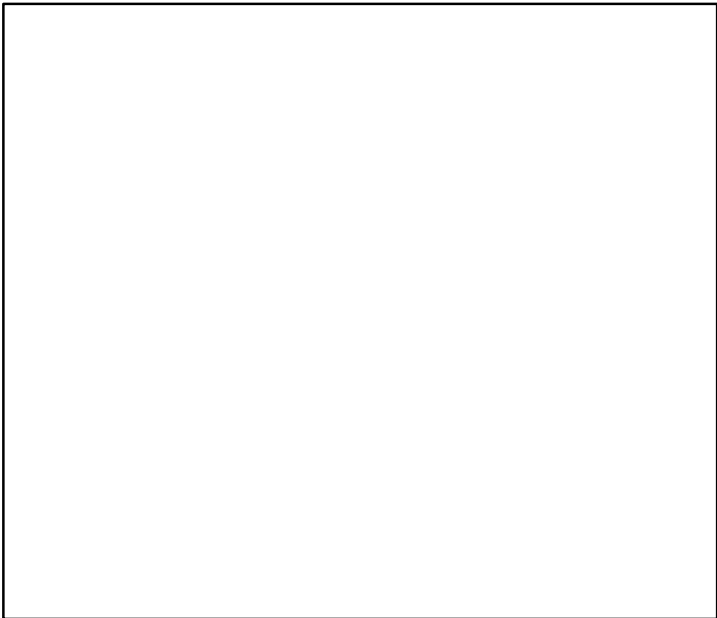
Kobe MSY\*



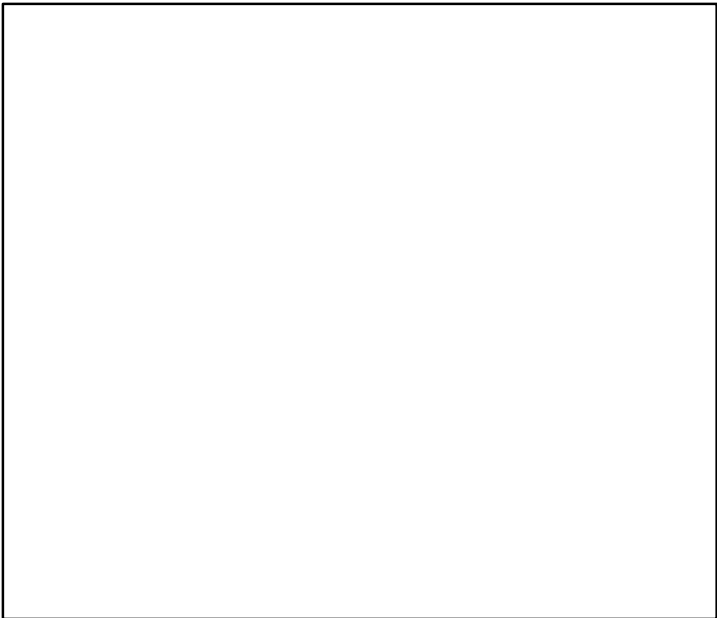
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



SSB\*



TN \*



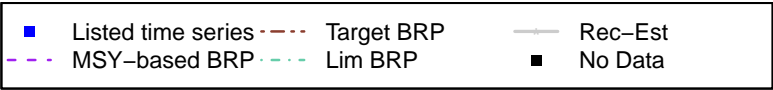
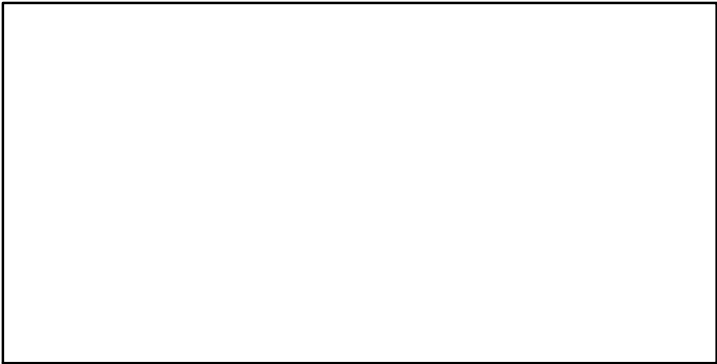
F\*



ER\*

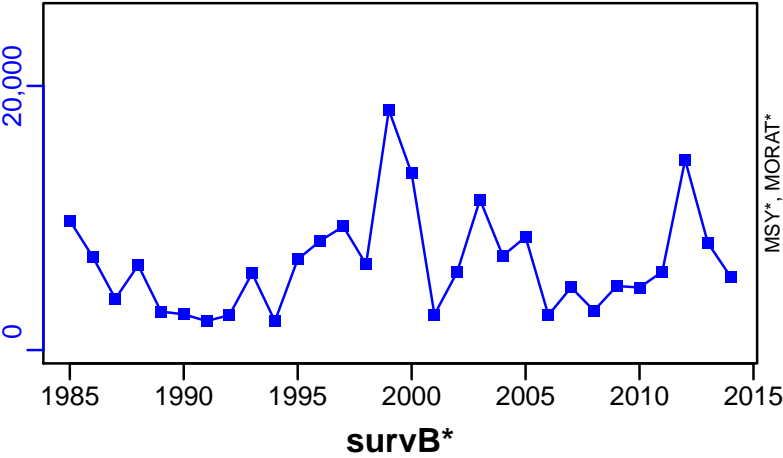


Recruits\*

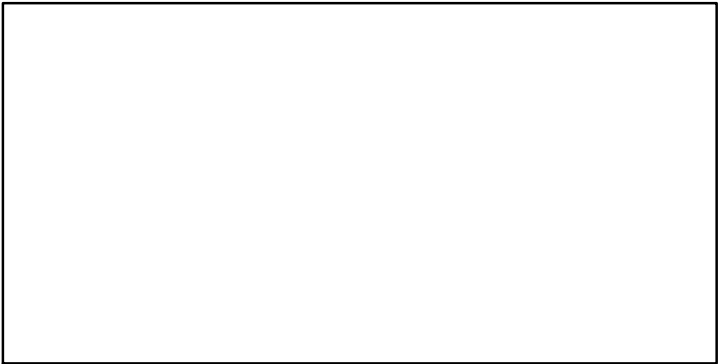


Sprat VI and VIIabcfghijk [SPRATVI-VIIabcfghijk]

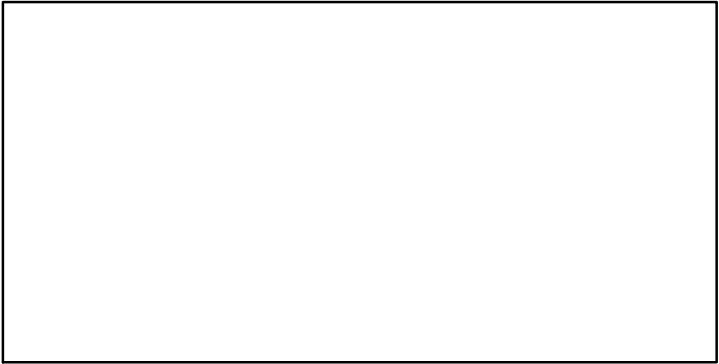
TL-MT, TC\*, RecC\* (1985-2015-ICESIMP2016)



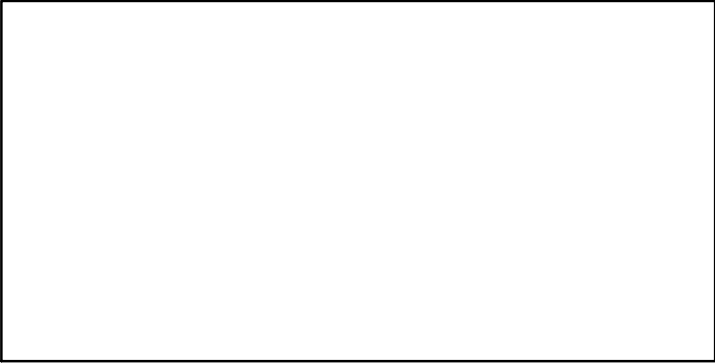
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Spurdog Northeast Atlantic [SPURDNEATL]

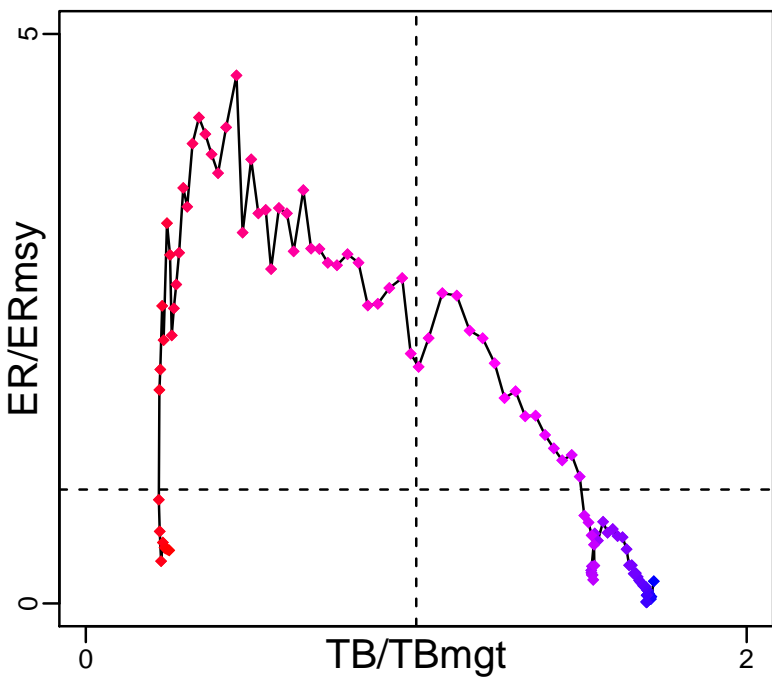
Metadata	
<b>Scientific Name</b>	Squalus acanthias
<b>Current Assess ID</b>	WGEF-SPURDNEATL-1905-2014-ICESIMP2016
<b>Area</b>	Northeast Atlantic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Elasmobranch Fishes
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2014	0.029
<b>TBmgt</b>	TBmgt-MT	2014	963,700
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2014	0.029
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

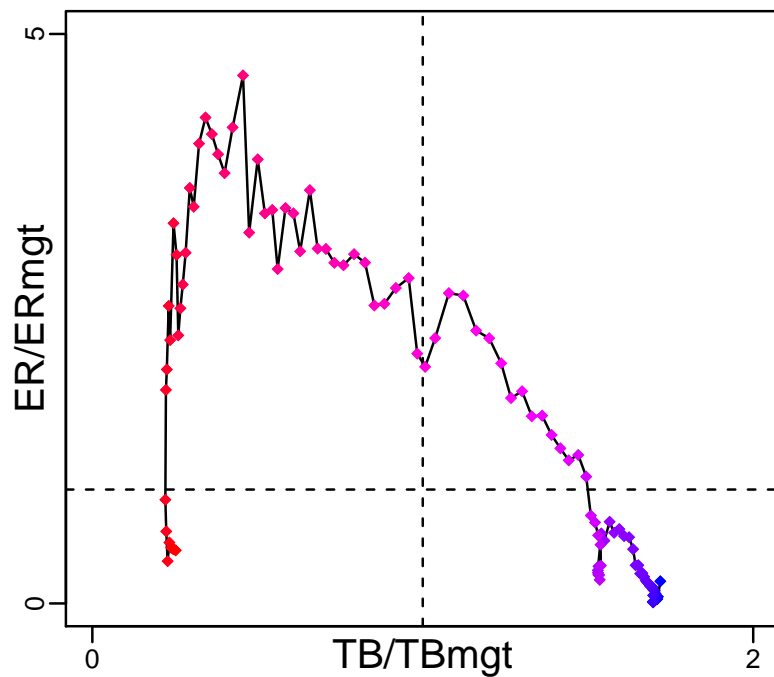
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	248,000	Both	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	102,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2014	0.014	-	-
<b>TC</b>	TC-MT	2014	2380		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2014	0.466		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2014	0.257		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Spurdog Northeast Atlantic [SPURDNEATL]

Kobe MSYpref (1905–2014–ICESIMP2016)



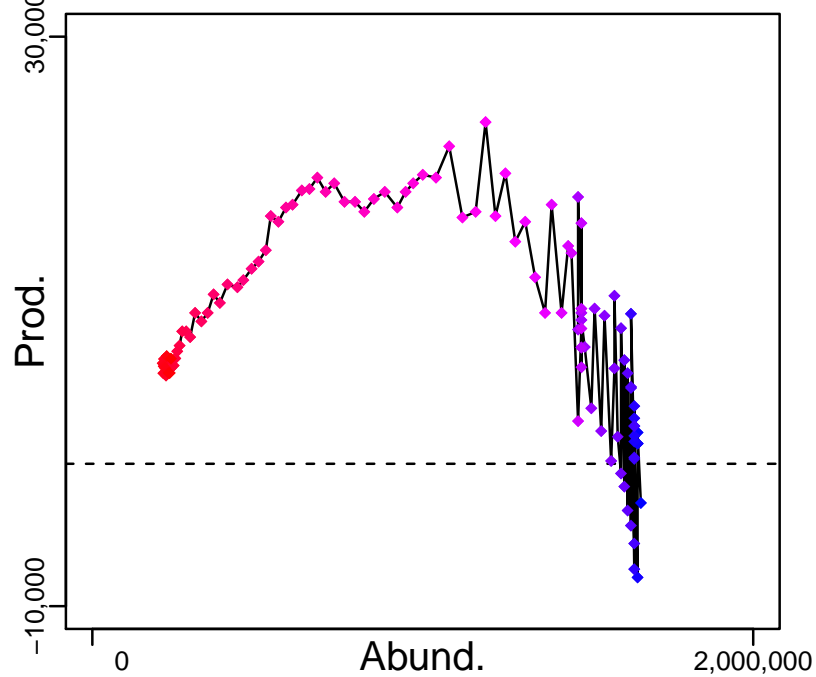
Kobe MGTpref (1905–2014–ICESIMP2016)



Spawner Recruit\*



Production (1905–2014–ICESIMP2016)

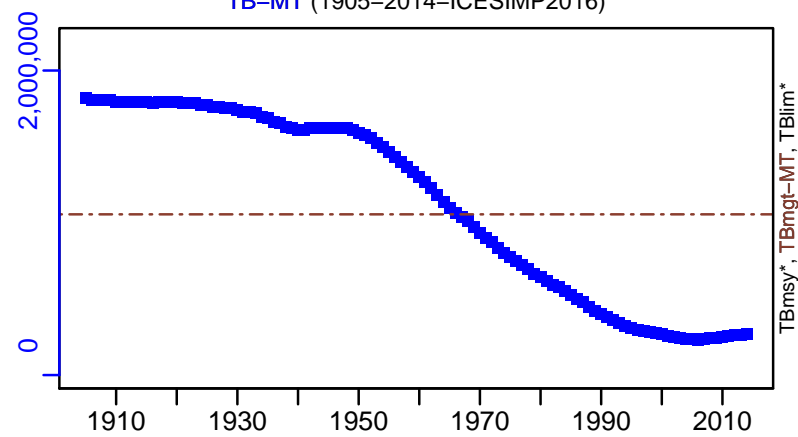


◆ Start Year ◆ End Year \* No Data

# Spurdog Northeast Atlantic [SPURDNEATL]

TB-MT (1905–2014–ICESIMP2016)

SSB\*



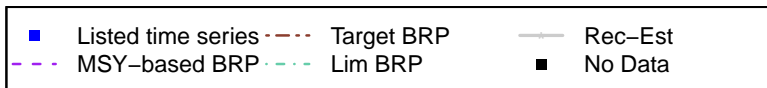
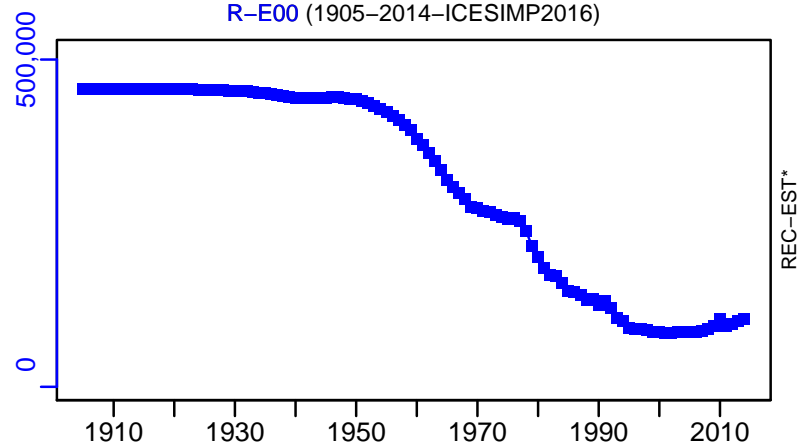
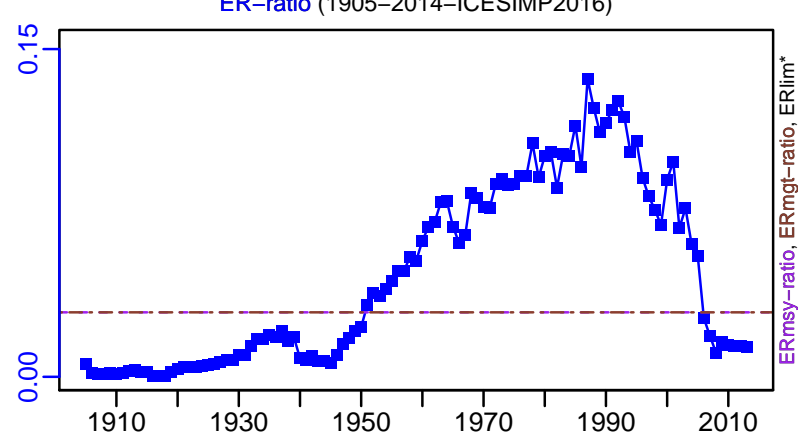
TN \*

F\*



ER-ratio (1905–2014–ICESIMP2016)

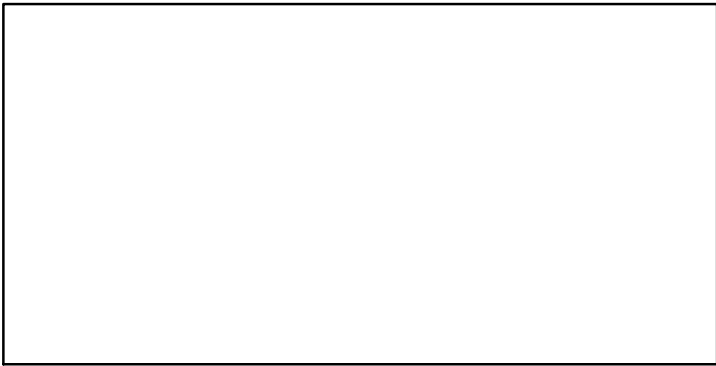
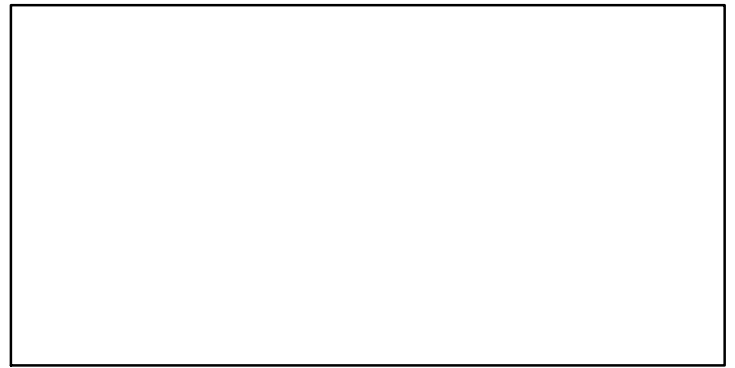
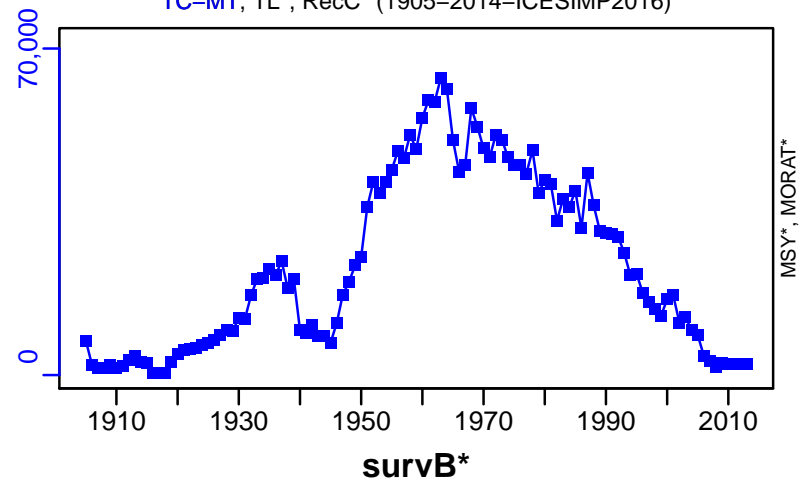
R-E00 (1905–2014–ICESIMP2016)



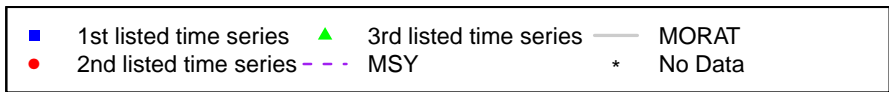
Spurdog Northeast Atlantic [SPURDNEATL]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





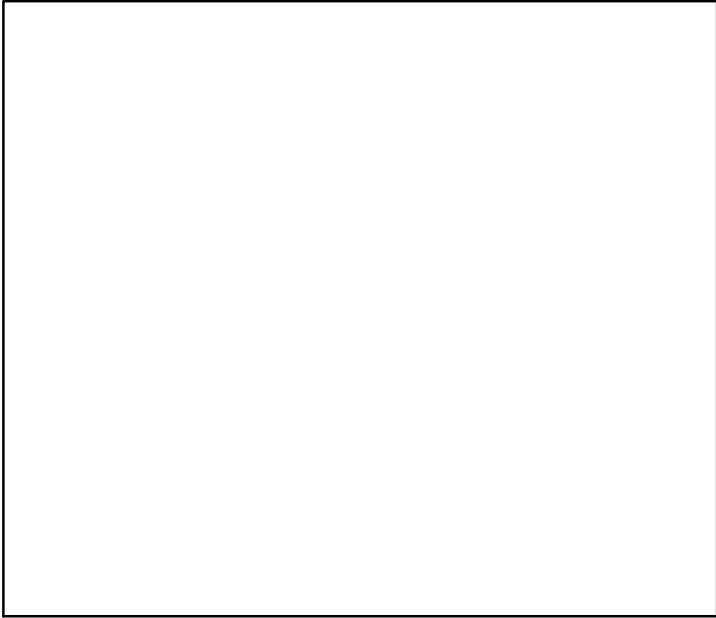
## Turbot Baltic Areas 22-32 [TUR2232]

Metadata	
<b>Scientific Name</b>	Scophthalmus maximus
<b>Current Assess ID</b>	WGBFAS-TUR2232-1965-2016-ICESIMP2016
<b>Area</b>	Baltic Areas 22-32
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Baltic Fisheries Assessment Working Group
<b>Asmts in RAM</b>	2016

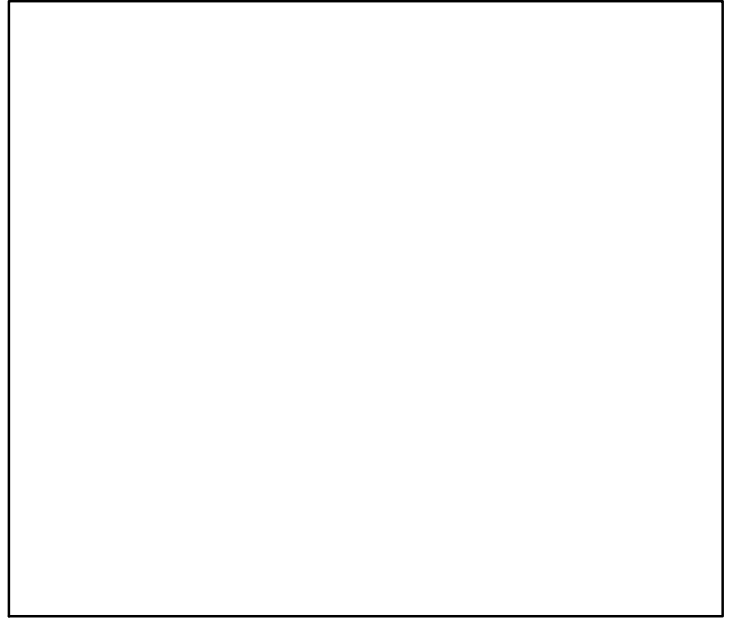
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

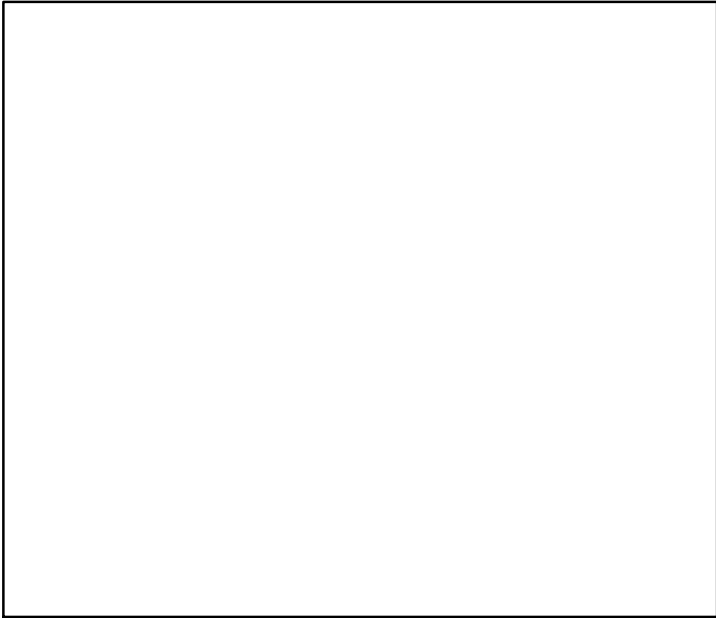
**Kobe MSY\***



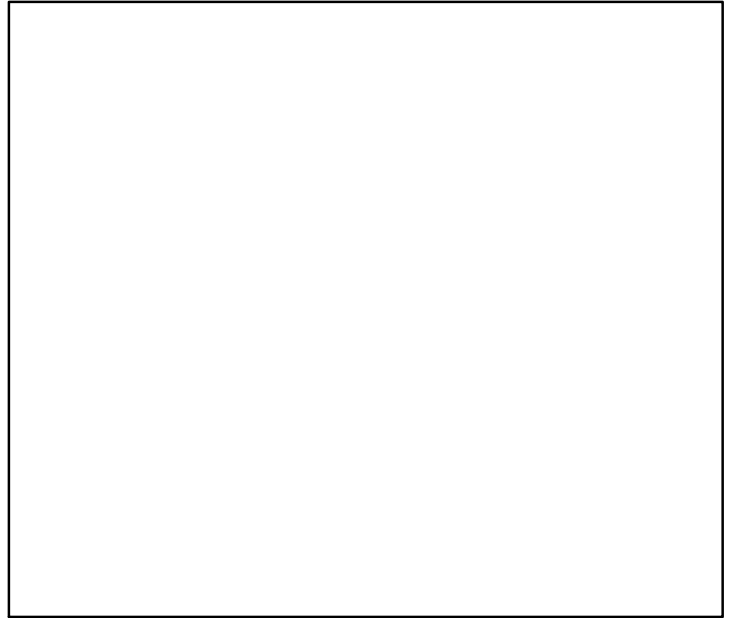
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

Turbot Baltic Areas 22–32 [TUR2232]

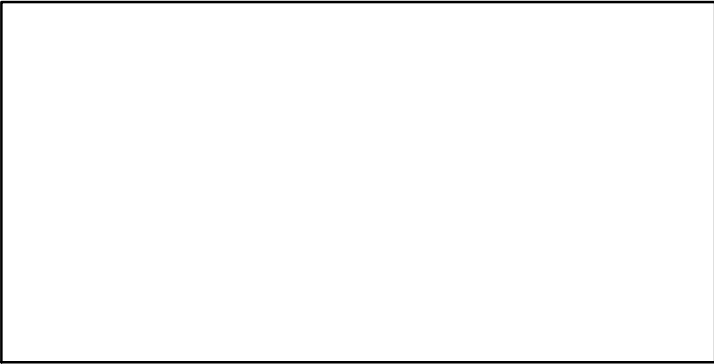
**TB\***



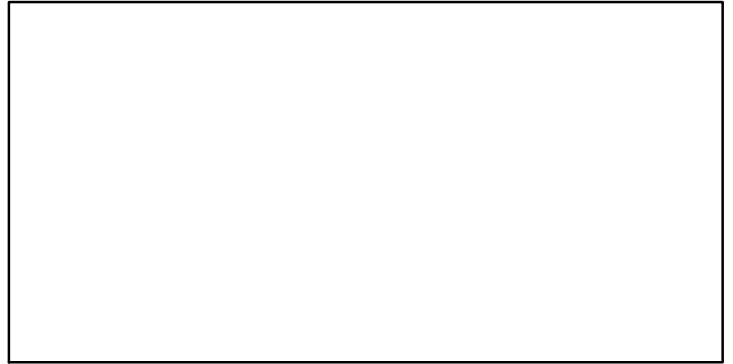
**SSB\***



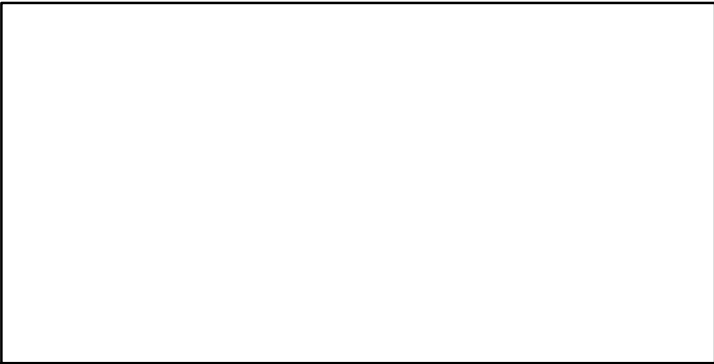
**TN \***



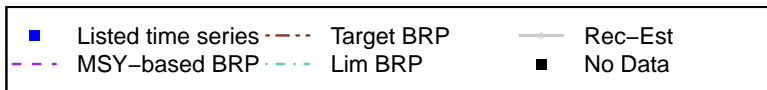
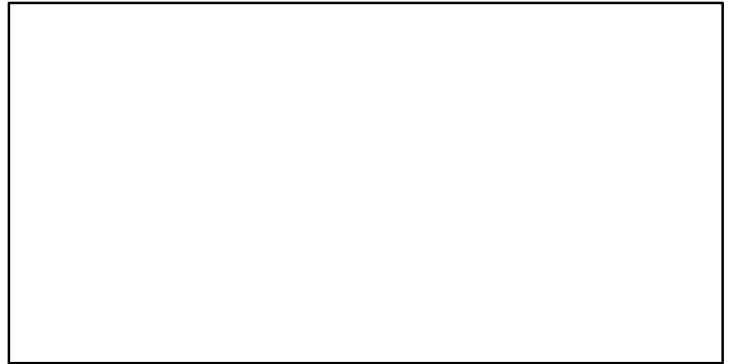
**F\***



**ER\***



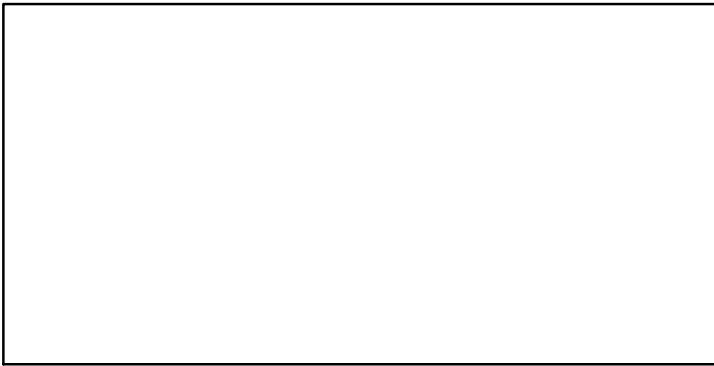
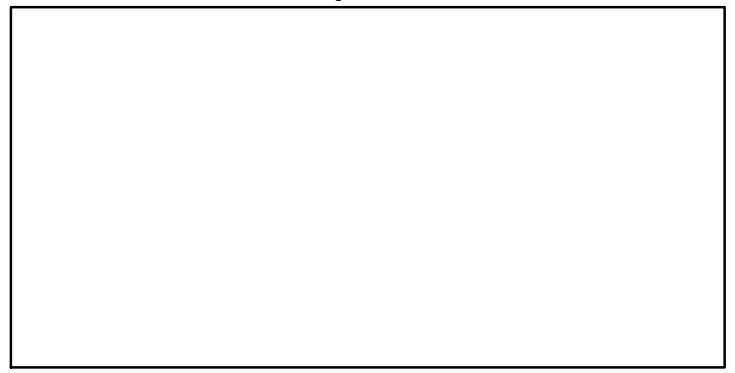
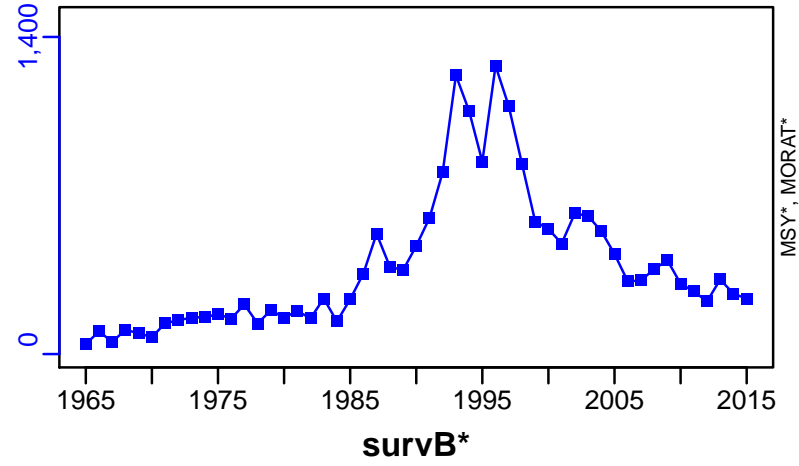
**Recruits\***



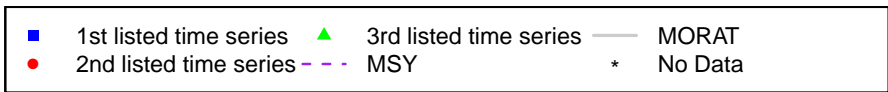
# Turbot Baltic Areas 22–32 [TUR2232]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



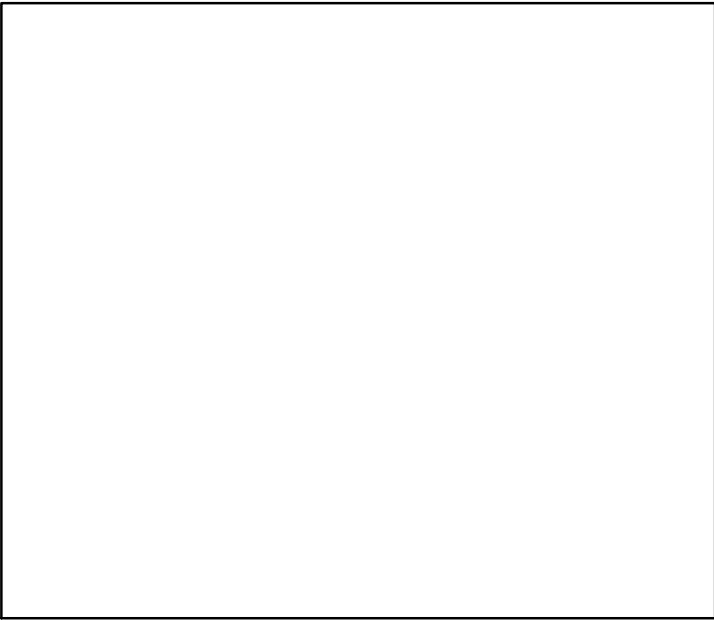
## Turbot North Sea [TURIV]

Metadata	
<b>Scientific Name</b>	Scophthalmus maximus
<b>Current Assess ID</b>	WGNSSK-TURIV-1974-2015-ICESIMP2016
<b>Area</b>	North Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak
<b>Asmts in RAM</b>	2013, 2014, 2015

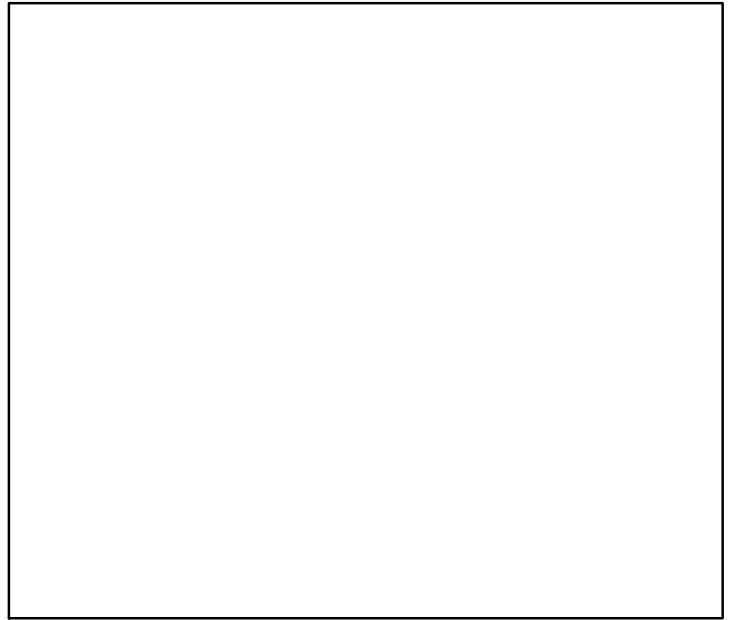
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-relative	2014	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-relative	2015	0.436	Both	-
TN	-	-	-	-	-
R	R-relative	2015	0.805	-	1
F	F-relative	2015	1.59	-	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	-	-	-		

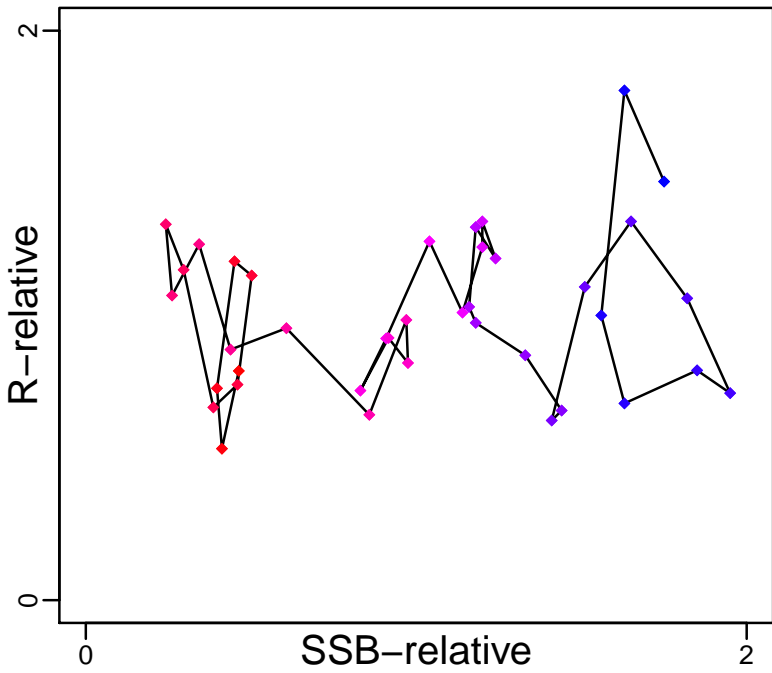
Kobe MSY\*



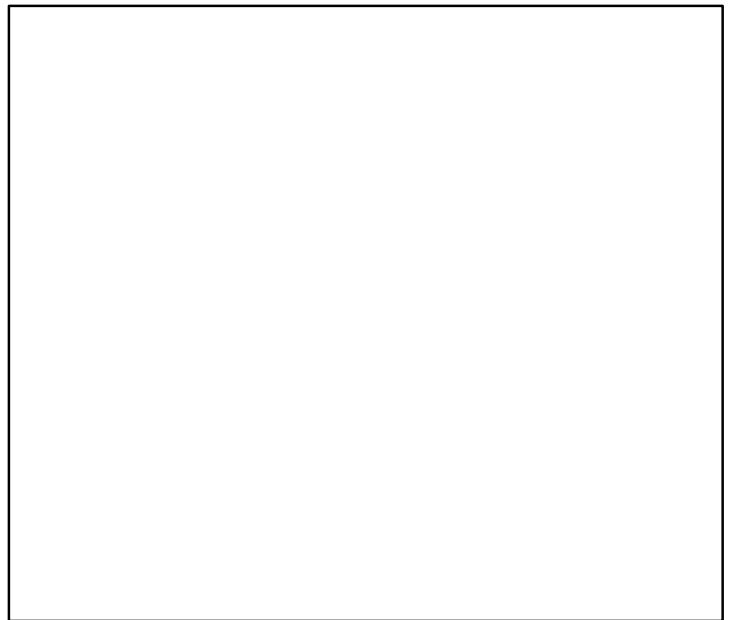
Kobe MGT\*



Spawner Recruit (1974–2015–ICESIMP2016)



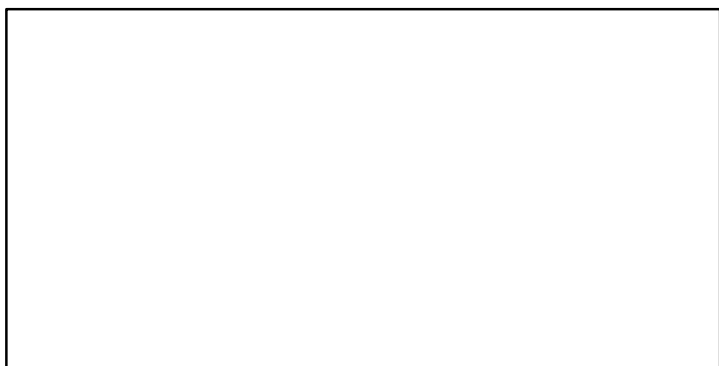
Production\*



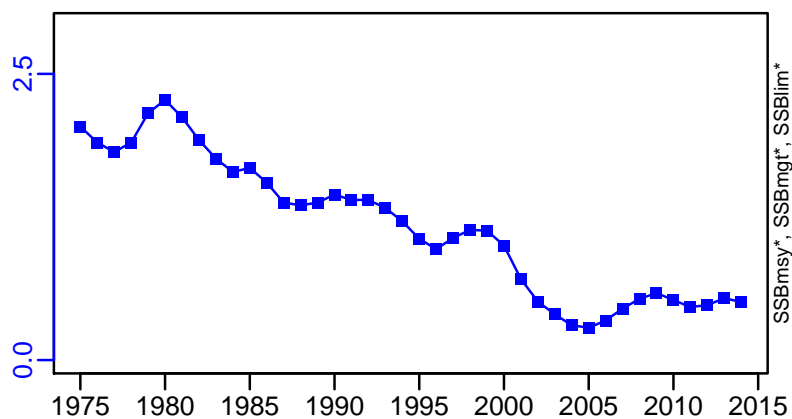
◆ Start Year ◆ End Year \* No Data

# Turbot North Sea [TURIV]

TB\*



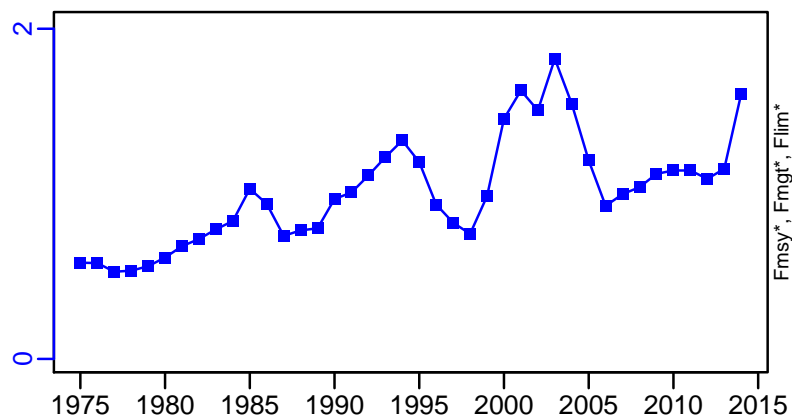
SSB-relative (1974–2015–ICESIMP2016)



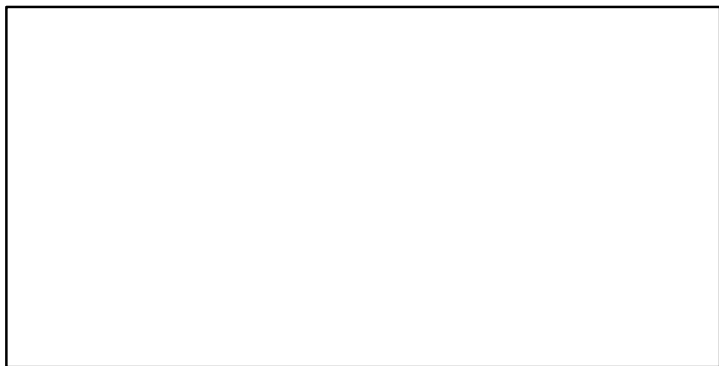
TN \*



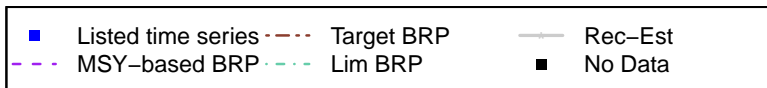
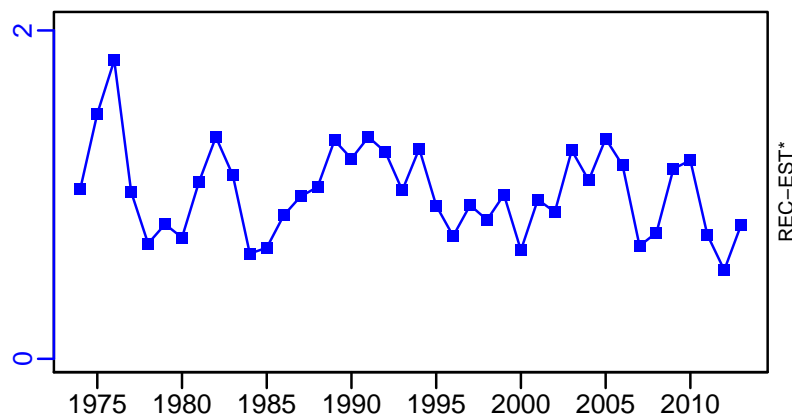
F-relative (1974–2015–ICESIMP2016)



ER\*

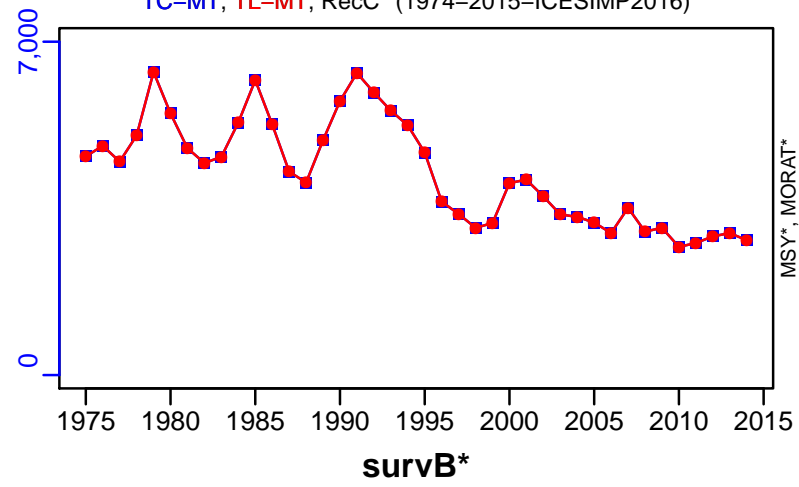


R-relative (1974–2015–ICESIMP2016)

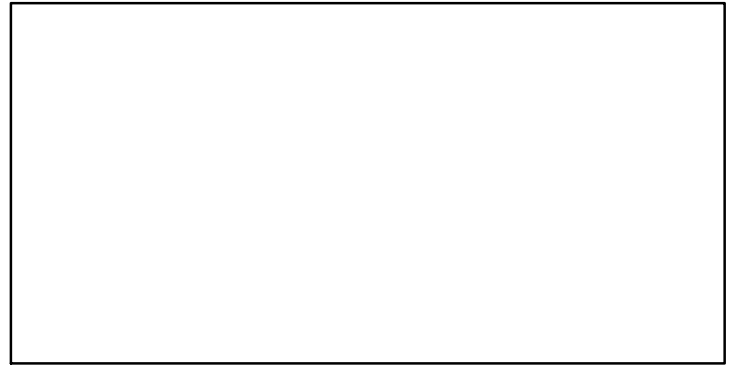


Turbot North Sea [TURIV]

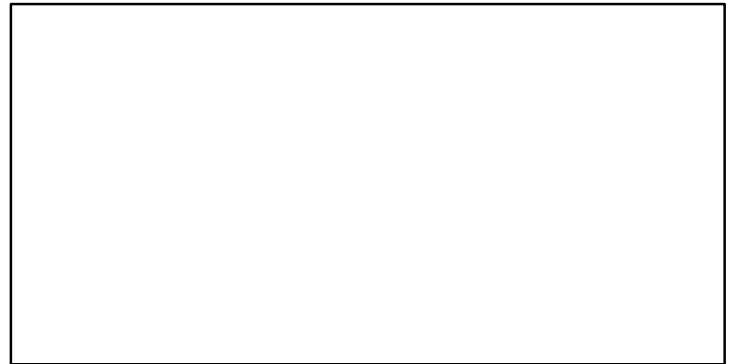
TC-MT, TL-MT, RecC\* (1974–2015–ICESIMP2016)



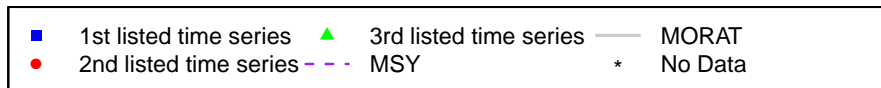
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*





## White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

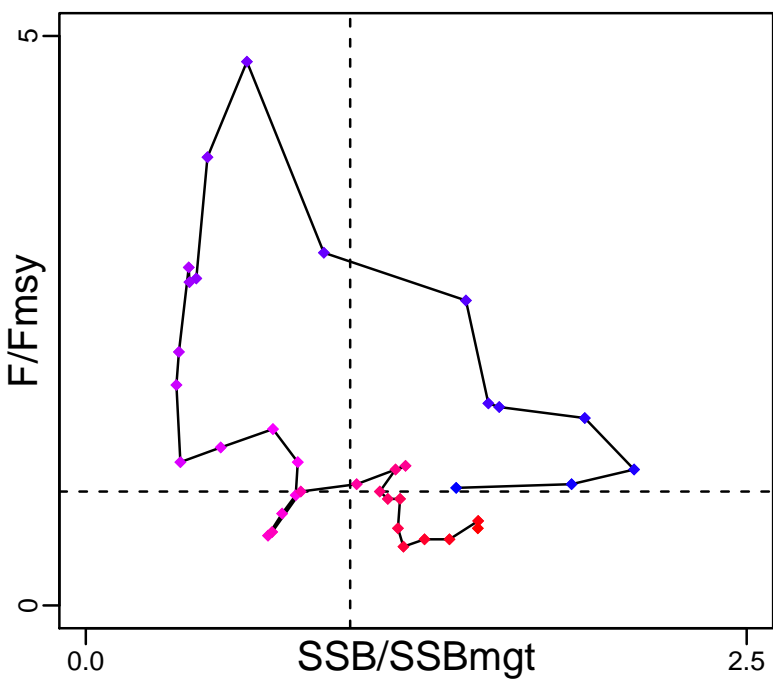
Metadata	
<b>Scientific Name</b>	Lophius piscatorius
<b>Current Assess ID</b>	WGBIE-WANGLVIIIc-IXa-1980-2016-ICESIMP2016
<b>Area</b>	VIIIc-IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.31
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	5400
<b>Fmgt</b>	Fmgt-1/yr	2016	0.31
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	1900
<b>Flim</b>	Flim-1/yr	2016	0.6
<b>ERlim</b>	-	-	-

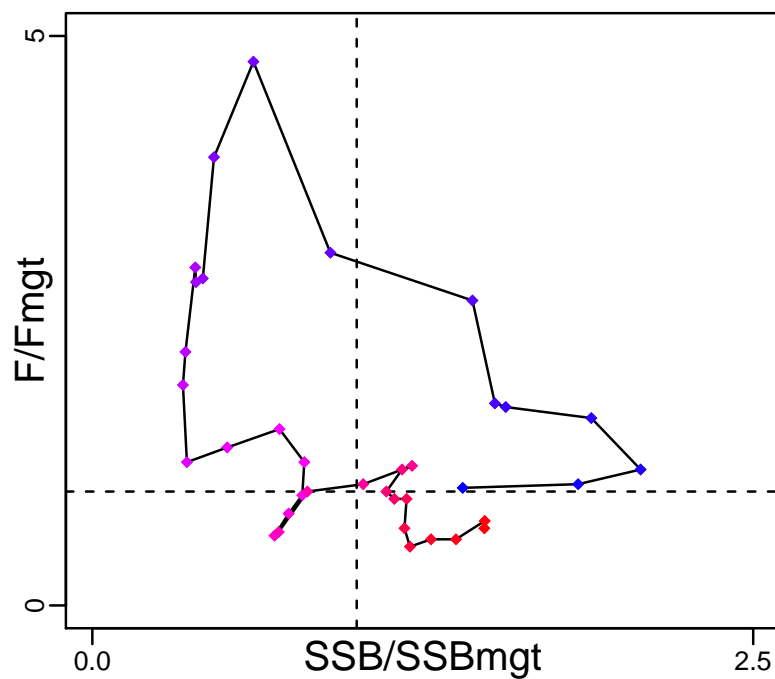
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	9600	Both	-
<b>SSB</b>	SSB-MT	2016	7940	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	1,080,000	-	0
<b>F</b>	F-1/yr	2016	0.21	-	-
<b>ER</b>	ER-calc-ratio	2016	0.182	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2016	1750		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.677		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.471		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.677		
<b>ER/ERmgt</b>	-	-	-		

# White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

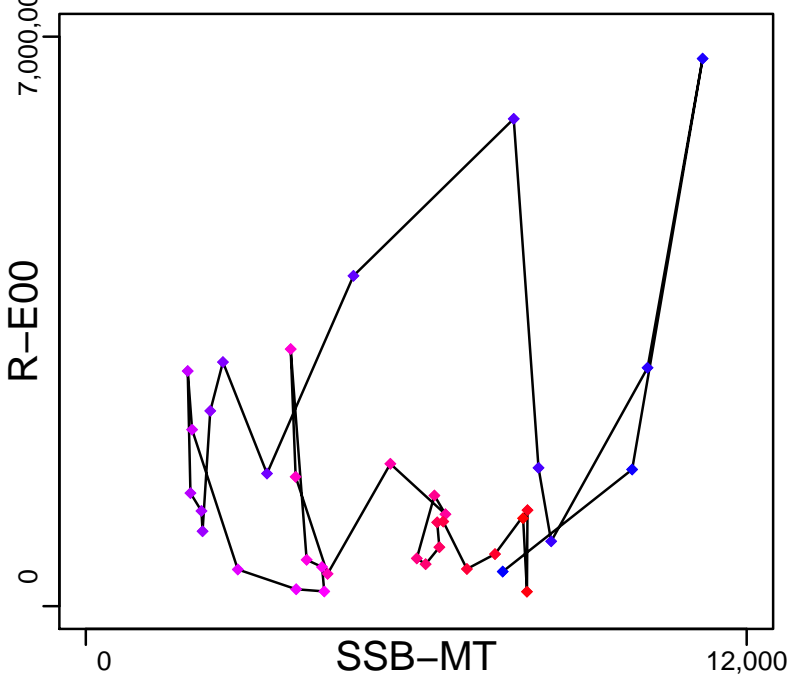
Kobe MSYpref (1980–2016–ICESIMP2016)



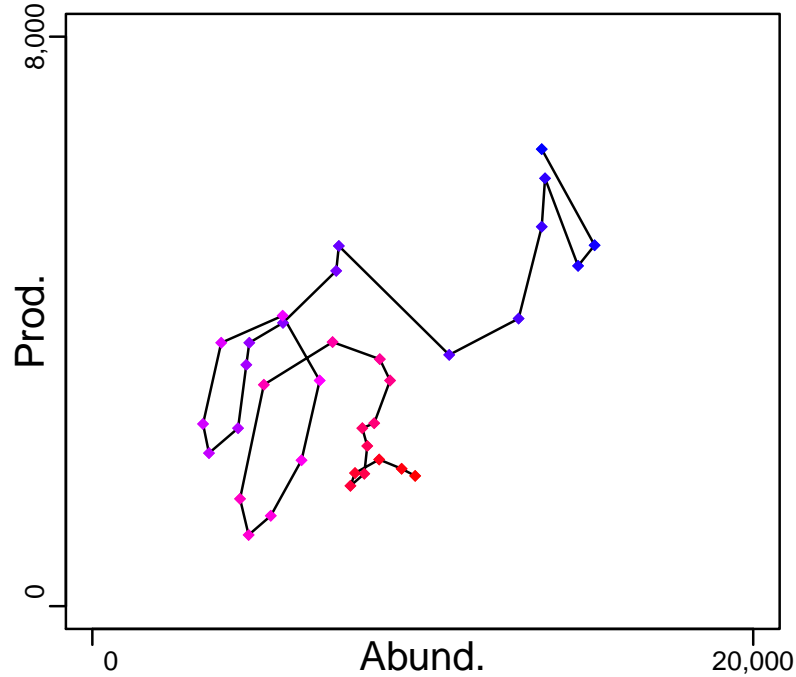
Kobe MGTpref (1980–2016–ICESIMP2016)



Spawner Recruit (1980–2016–ICESIMP2016)



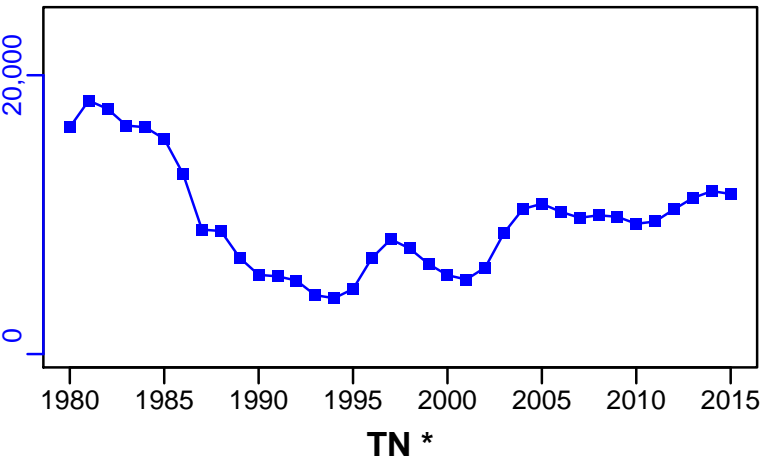
Production (1980–2016–ICESIMP2016)



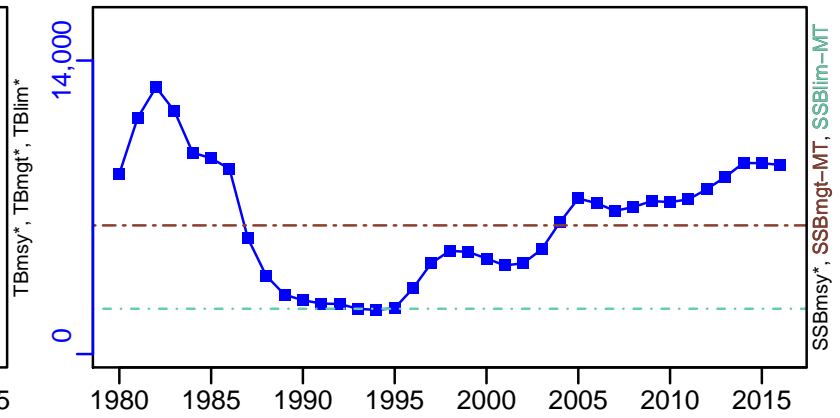
◆ Start Year ◆ End Year \* No Data

# White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

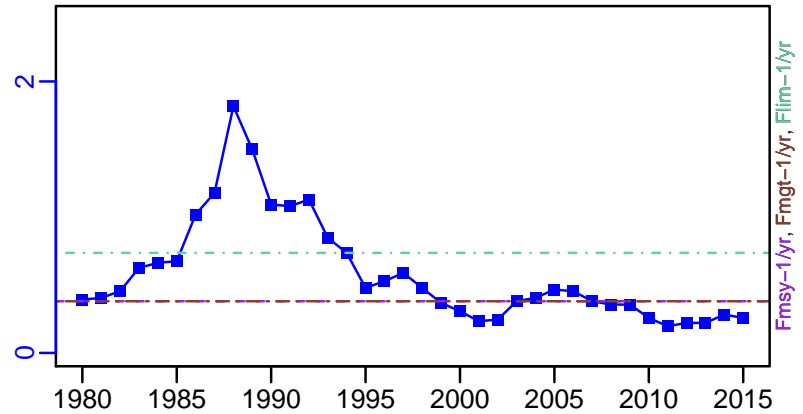
TB-MT (1980–2016–ICESIMP2016)



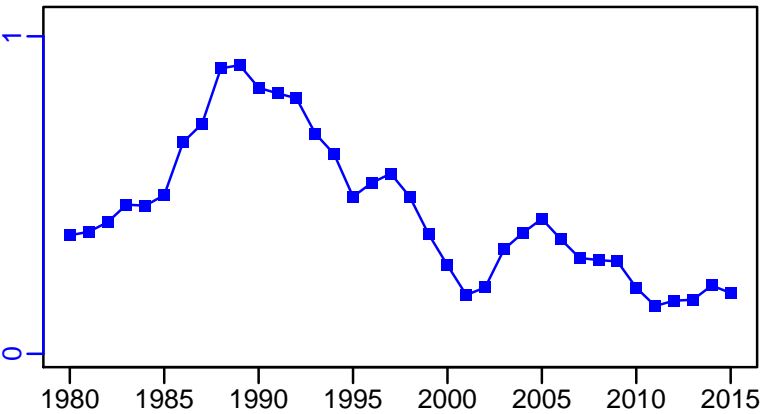
SSB-MT (1980–2016–ICESIMP2016)



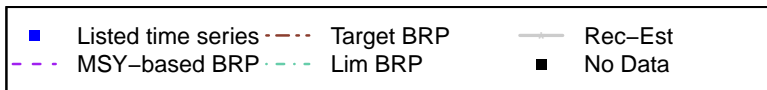
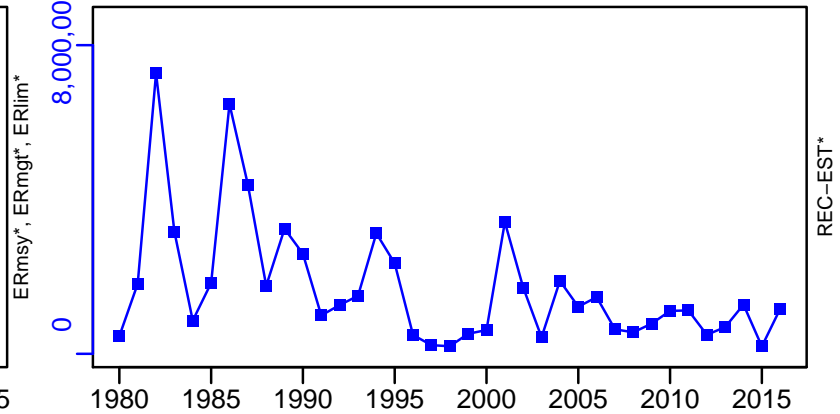
F-1/yr (1980–2016–ICESIMP2016)



ER-calc-ratio (1980–2016–ICESIMP2016)



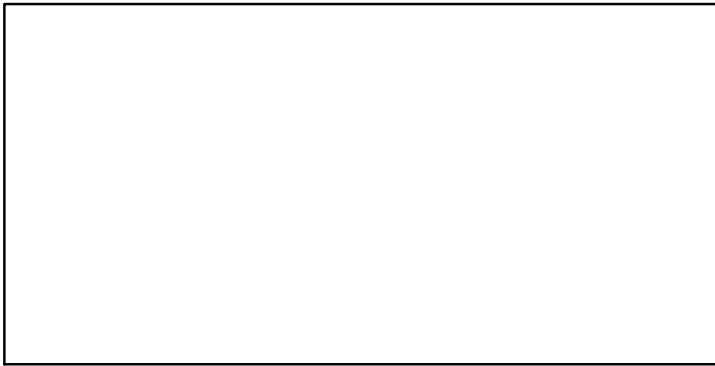
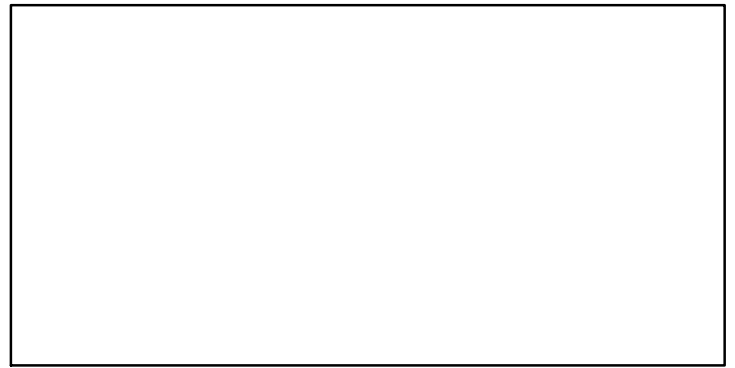
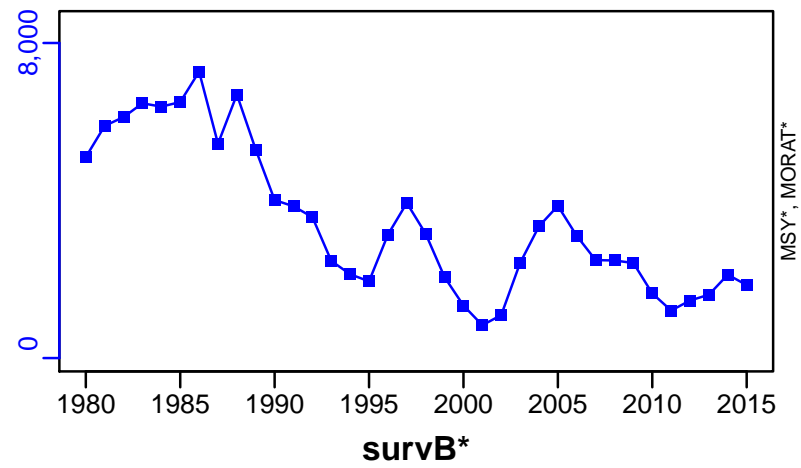
R-E00 (1980–2016–ICESIMP2016)



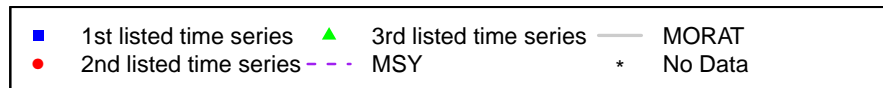
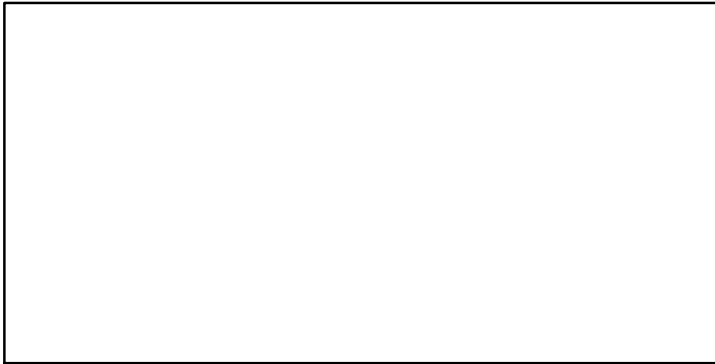
# White anglerfish VIIIc-IXa [WANGLVIIIc-IXa]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



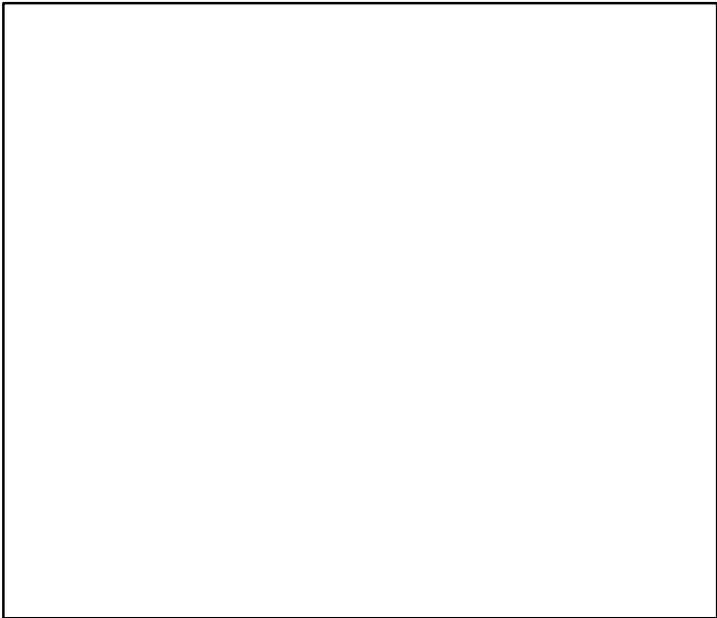
## White anglerfish VII and VIIIabd [WANGLVII-VIIIabd]

Metadata	
<b>Scientific Name</b>	Lophius piscatorius
<b>Current Assess ID</b>	WGBIE-WANGLVII-VIIIabd-1986-2016-ICESIMP2016
<b>Area</b>	VII and VIIIabd
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2016

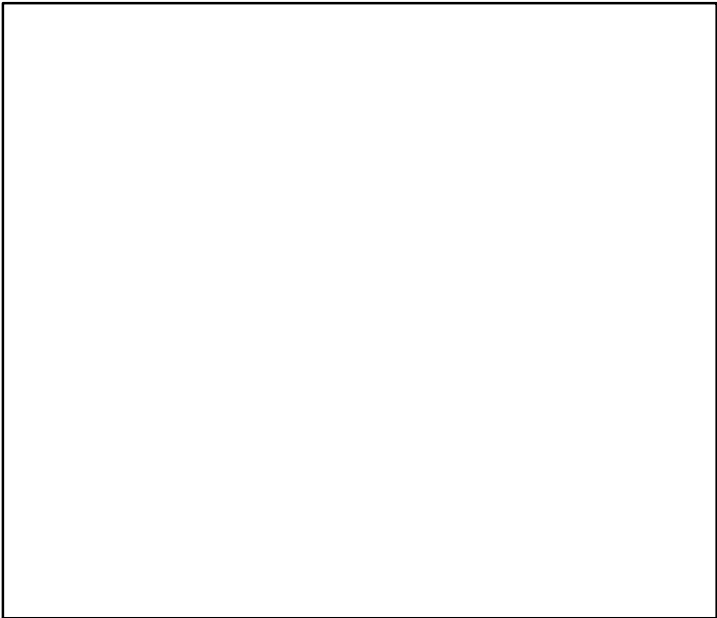
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	25,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

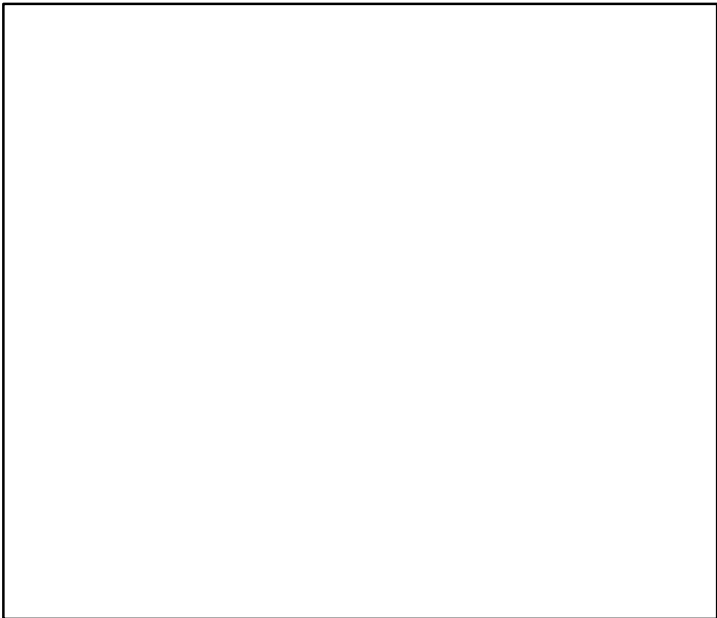
Kobe MSY\*



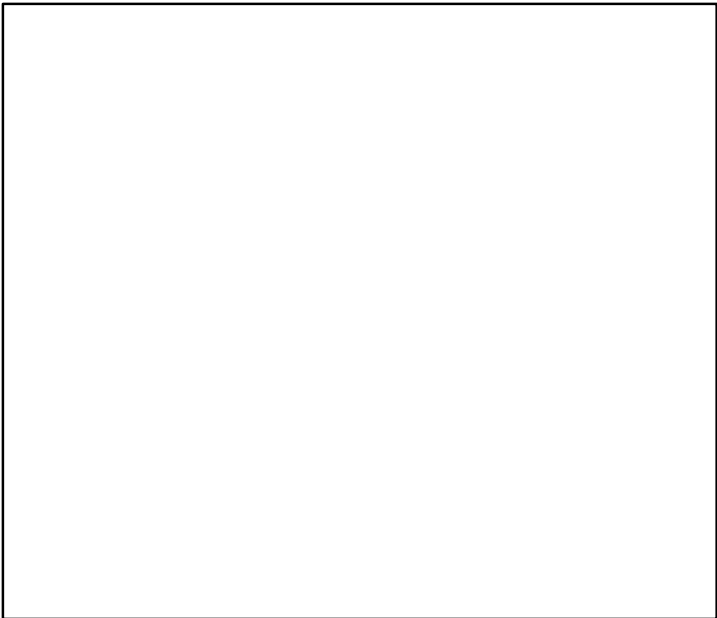
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

White anglerfish VII and VIIIabd [WANGLVII–VIIIabd]

TB\*



SSB\*



TN \*



F\*



ER\*



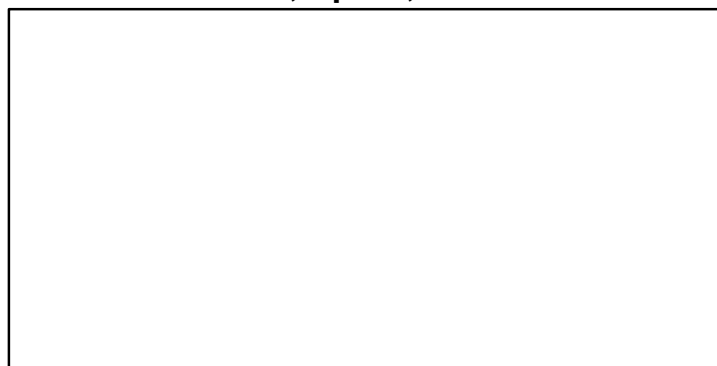
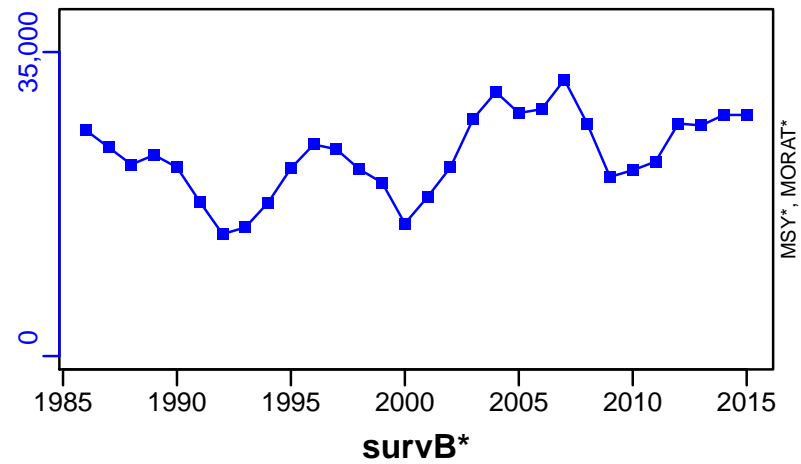
Recruits\*



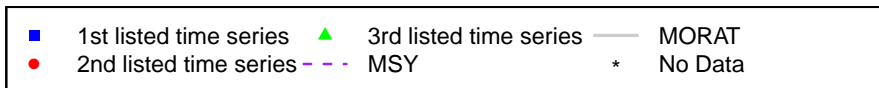
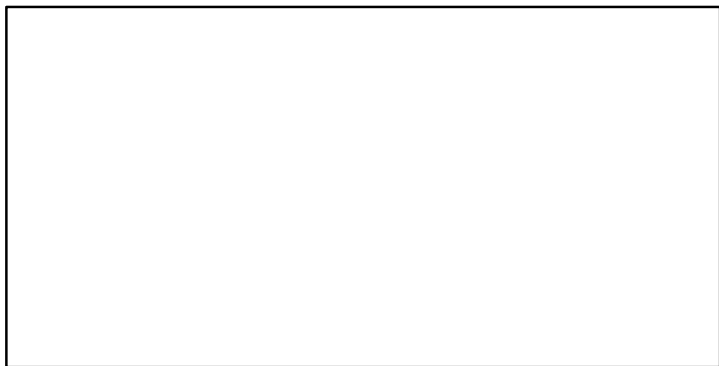
# White anglerfish VII and VIIIabd [WANGLVII–VIIIabd]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*





## Whiting NS-VIId [WHITNS-VIId]

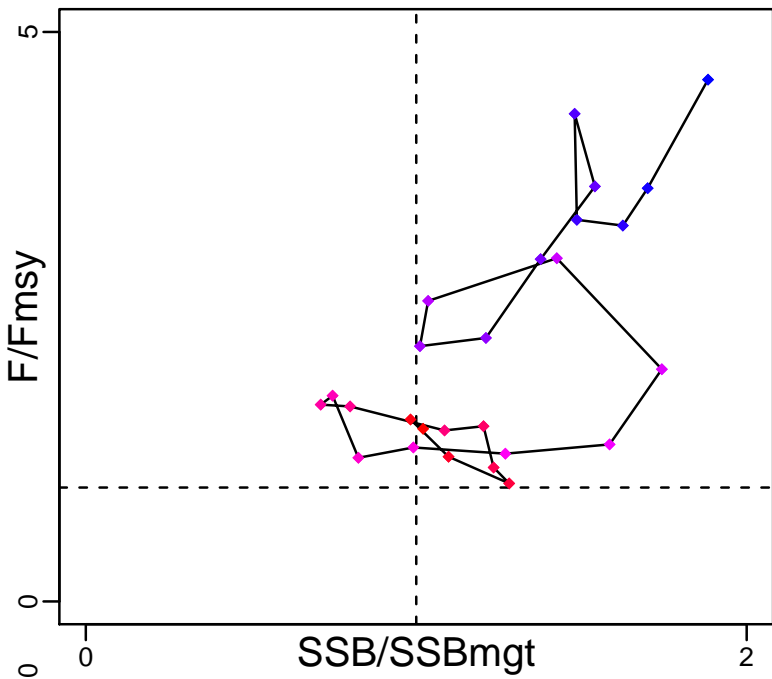
Metadata	
<b>Scientific Name</b>	Merlangius merlangus
<b>Current Assess ID</b>	WGNSSK-WHITNS-VIId-1989-2016-ICESIMP2016
<b>Area</b>	IV and VIId
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Assessment of Demersal Stocks in the North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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.15
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	241,837
<b>Fmgt</b>	Fmgt-1/yr	2016	0.15
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	172,741
<b>Flim</b>	Flim-1/yr	2016	0.39
<b>ERlim</b>	-	-	-

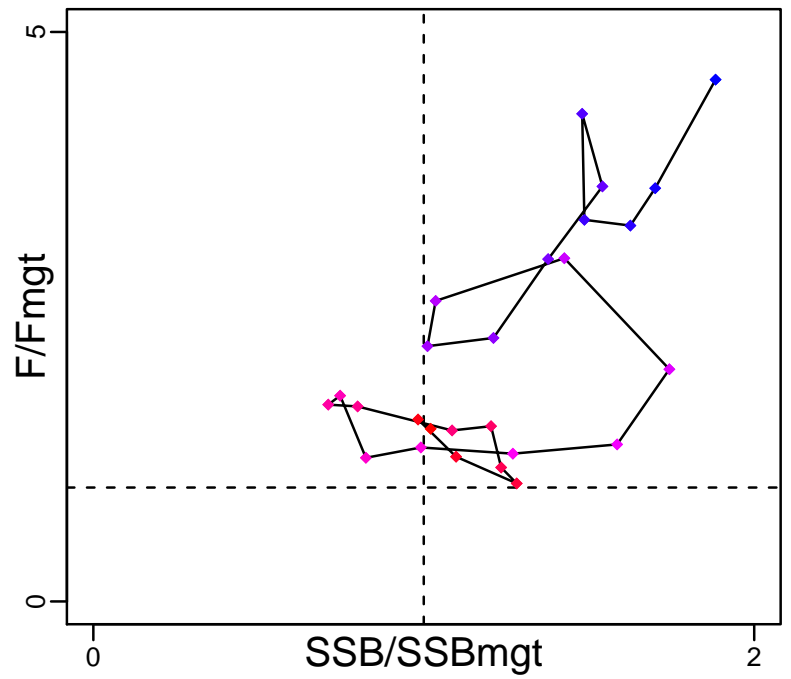
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	591,000	Both	-
<b>SSB</b>	SSB-MT	2016	267,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$2.9 \times 10^9$	-	1
<b>F</b>	F-1/yr	2016	0.227	-	2 to 6
<b>ER</b>	ER-calc-ratio	2016	0.068	-	-
<b>TC</b>	TC-MT	2016	33,200		
<b>TL</b>	TL-MT	2016	17,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.516		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.104		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.516		
<b>ER/ERmgt</b>	-	-	-		

# Whiting NS-VIId [WHITNS-VIId]

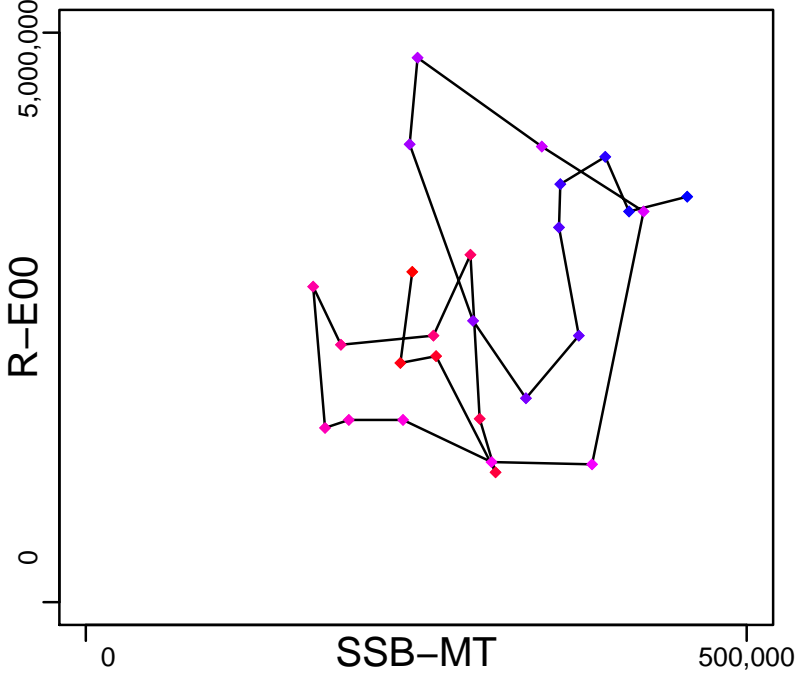
Kobe MSYpref (1989–2016–ICESIMP2016)



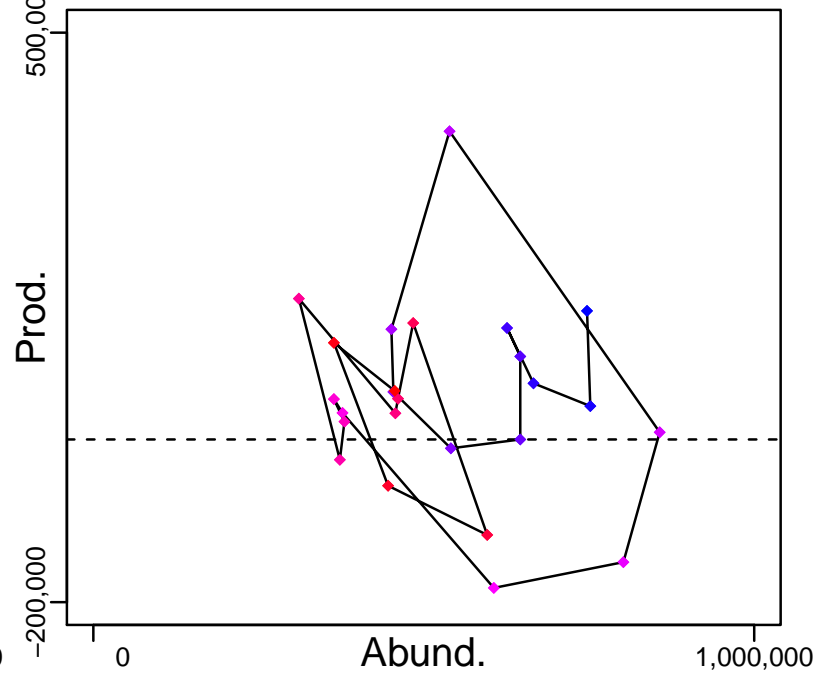
Kobe MGTpref (1989–2016–ICESIMP2016)



Spawner Recruit (1989–2016–ICESIMP2016)



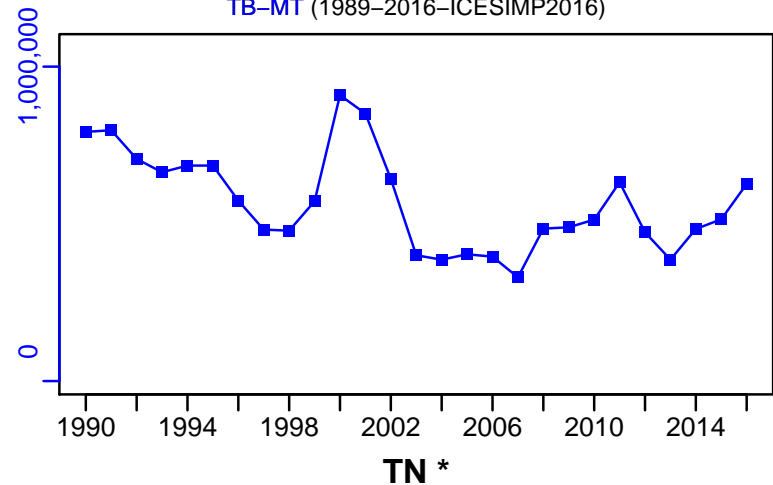
Production (1989–2016–ICESIMP2016)



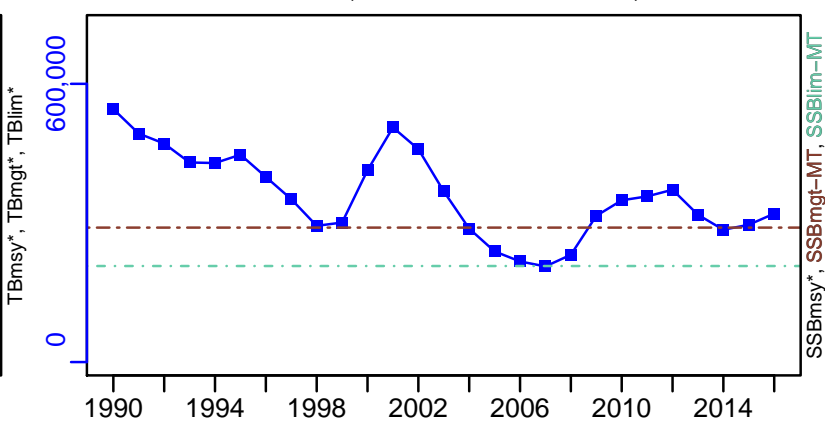
◆ Start Year ◆ End Year \* No Data

# Whiting NS-VIld [WHITNS-VIld]

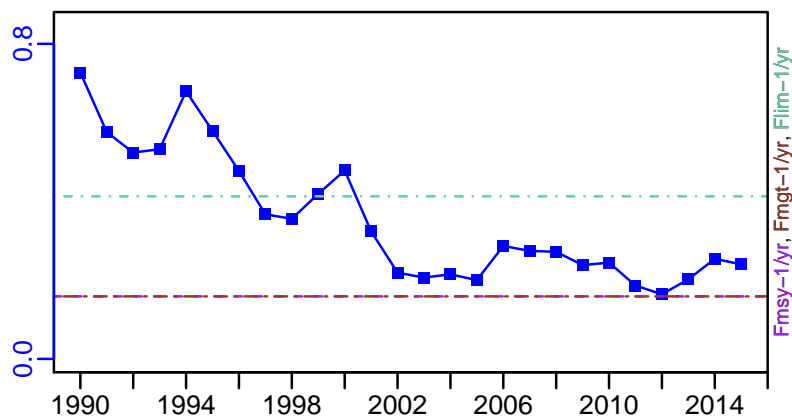
TB-MT (1989–2016–ICESIMP2016)



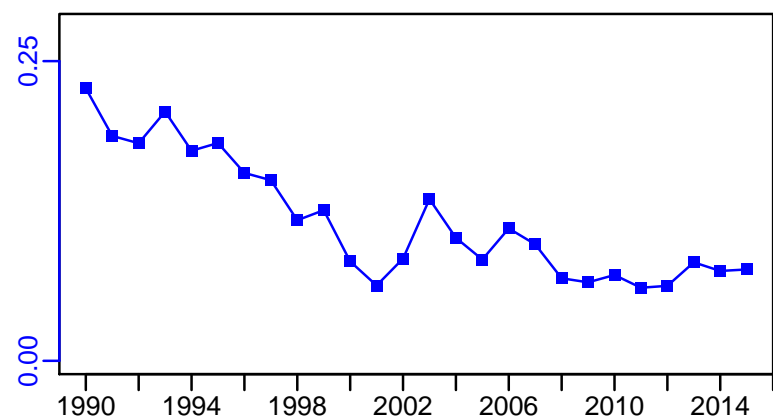
SSB-MT (1989–2016–ICESIMP2016)



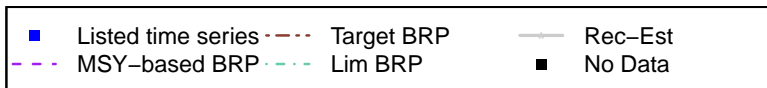
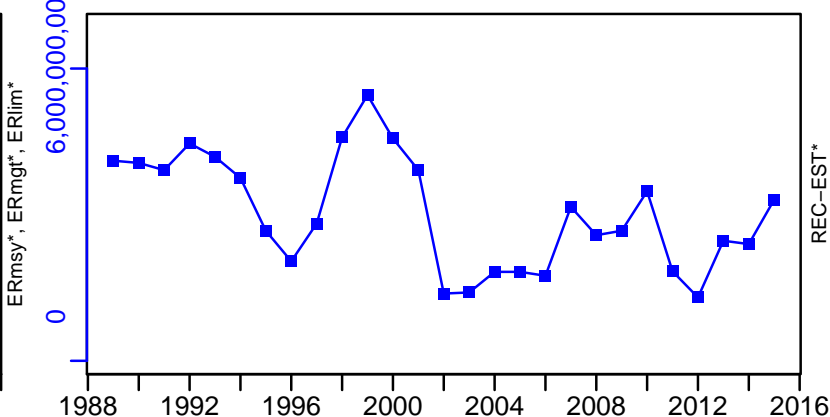
F-1/yr (1989–2016–ICESIMP2016)



ER-calc-ratio (1989–2016–ICESIMP2016)

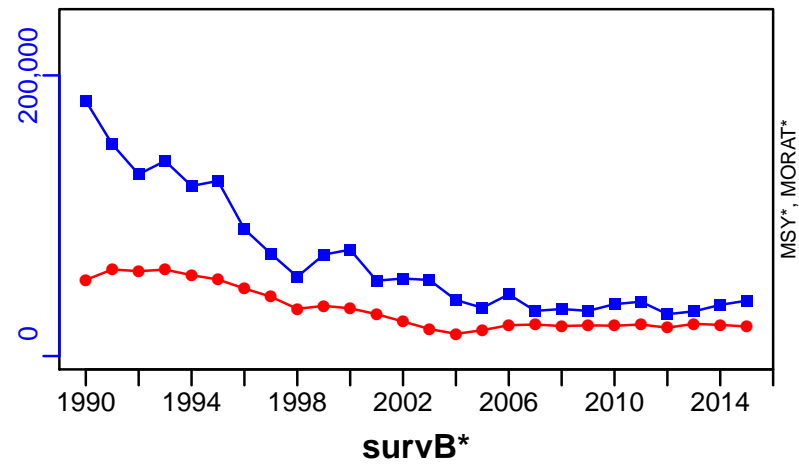


R-E00 (1989–2016–ICESIMP2016)



# Whiting NS-VIId [WHITNS-VIId]

TC-MT, TL-MT, RecC\* (1989-2016-ICESIMP2016)



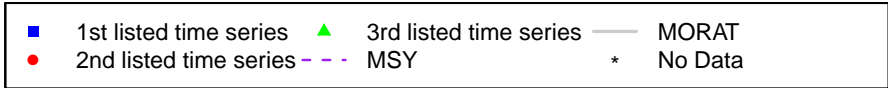
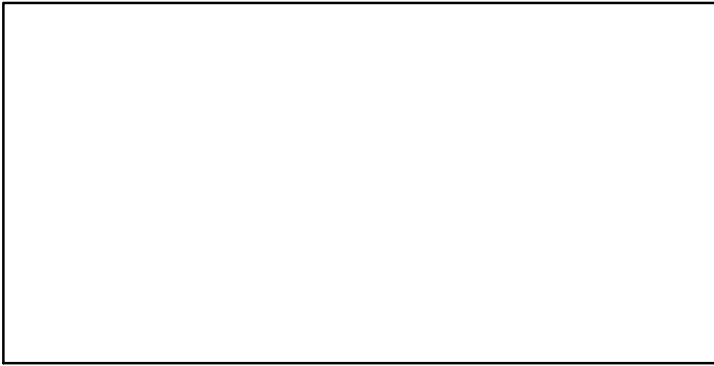
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Whiting ICES VIa [WHITVIa]

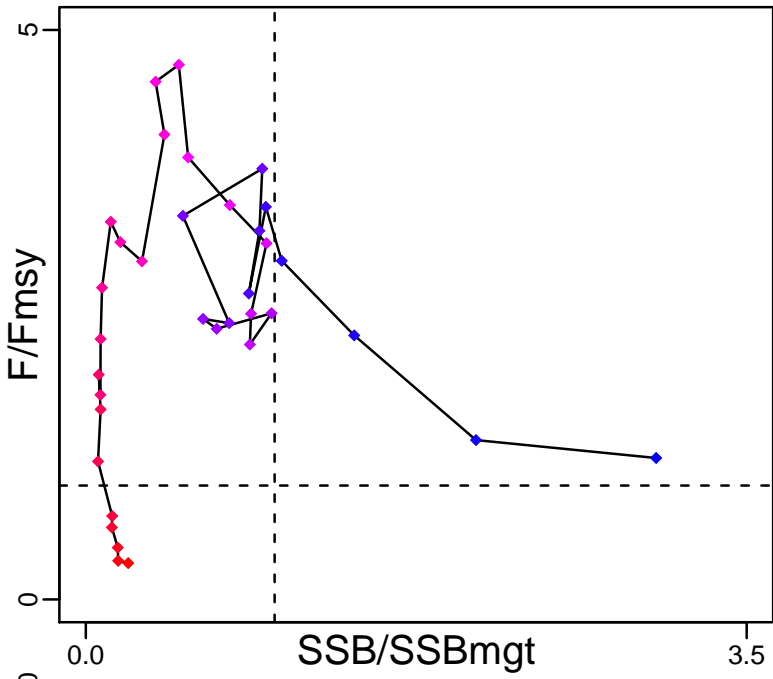
Metadata	
<b>Scientific Name</b>	Merlangius merlangus
<b>Current Assess ID</b>	WGCSE-WHITVIa-1980-2016-ICESIMP2016
<b>Area</b>	West of Scotland
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.18
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	44,632
<b>Fmgt</b>	Fmgt-1/yr	2016	0.18
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2016	31,880
<b>Flim</b>	Flim-1/yr	2016	0.27
<b>ERlim</b>	-	-	-

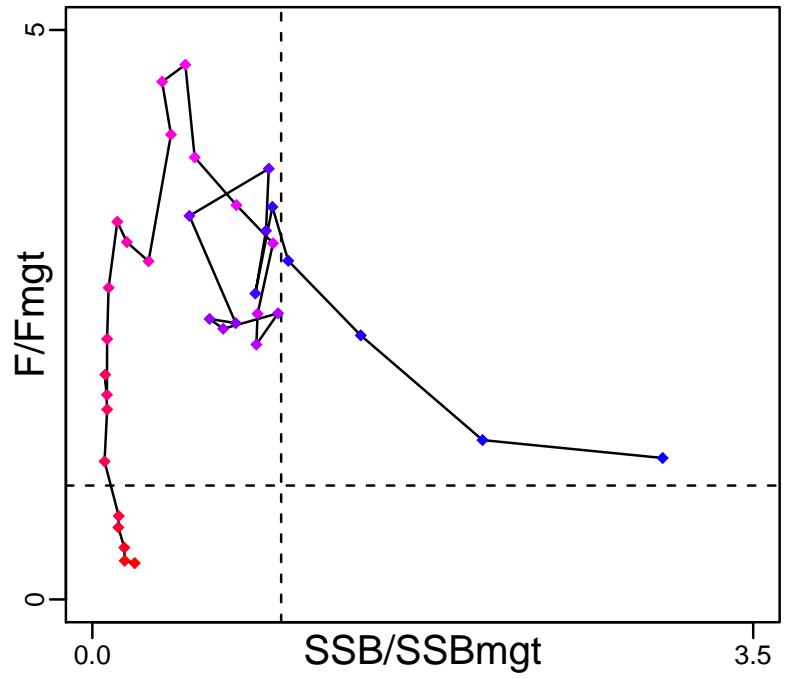
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	21,100	Both	-
<b>SSB</b>	SSB-MT	2016	16,200	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	87,900,000	-	1
<b>F</b>	F-1/yr	2016	0.057	-	2 to 4
<b>ER</b>	ER-calc-ratio	2016	0.059	-	-
<b>TC</b>	TC-MT	2016	1060		
<b>TL</b>	TL-MT	2016	227		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.319		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.364		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.319		
<b>ER/ERmgt</b>	-	-	-		

# Whiting ICES Via [WHITVla]

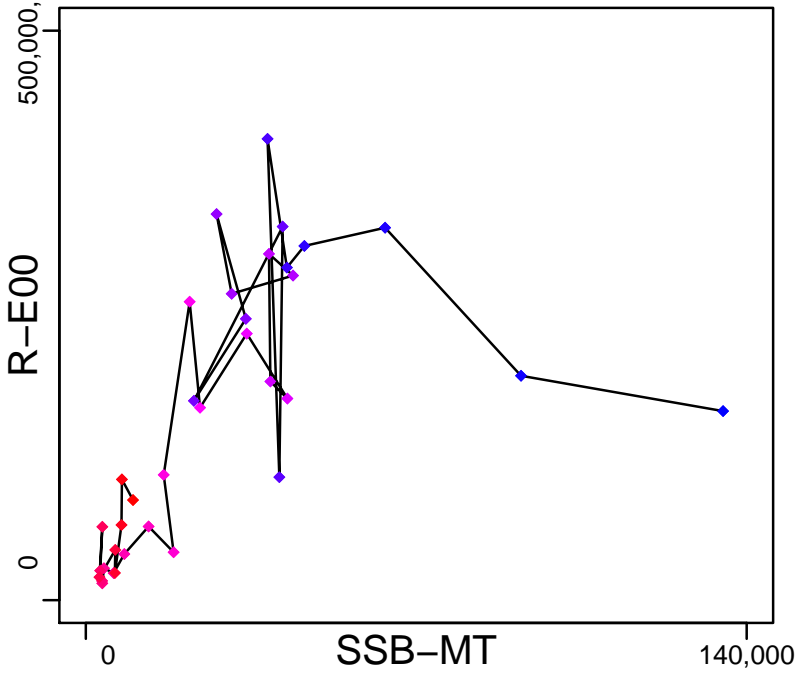
Kobe MSYpref (1980–2016–ICESIMP2016)



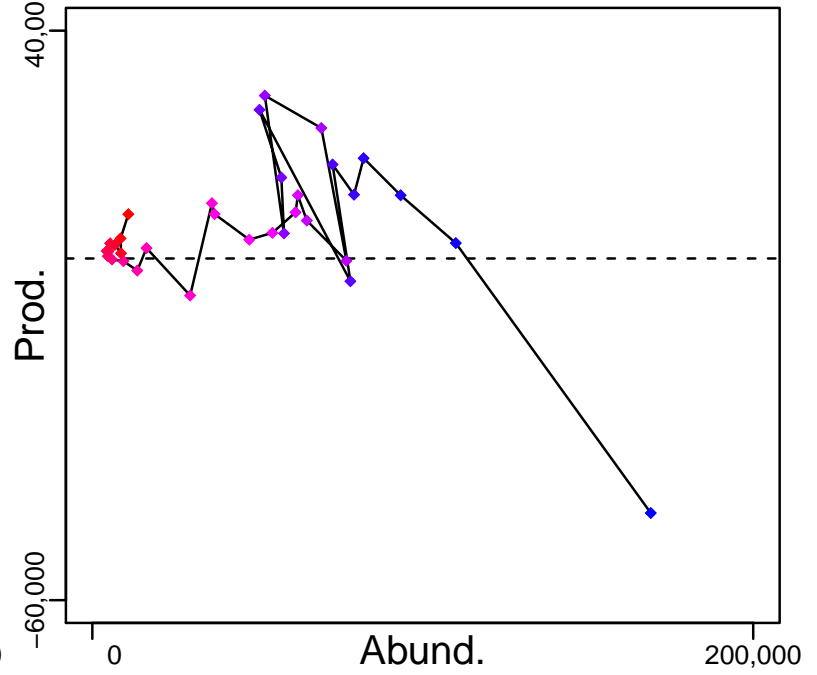
Kobe MGTpref (1980–2016–ICESIMP2016)



Spawner Recruit (1980–2016–ICESIMP2016)



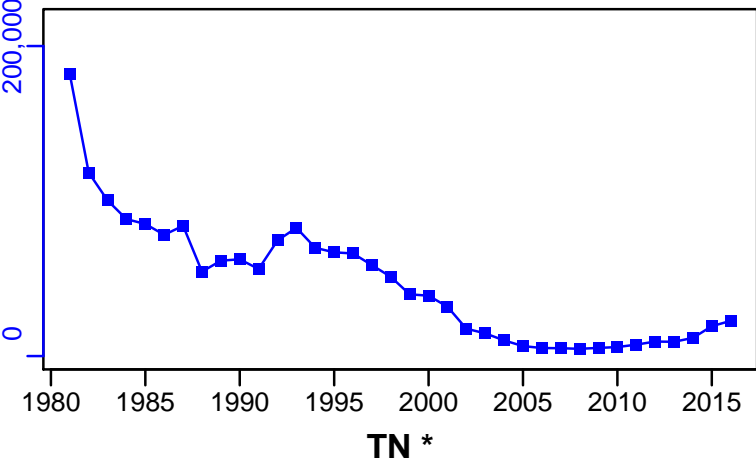
Production (1980–2016–ICESIMP2016)



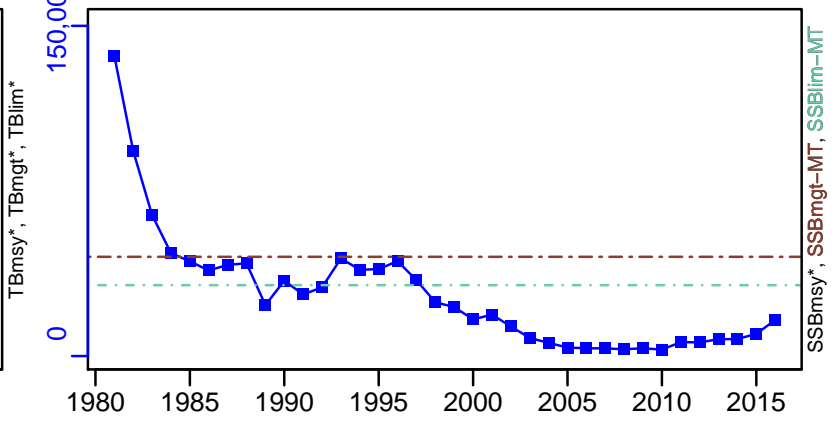
◆ Start Year ◆ End Year \* No Data

# Whiting ICES Via [WHITVla]

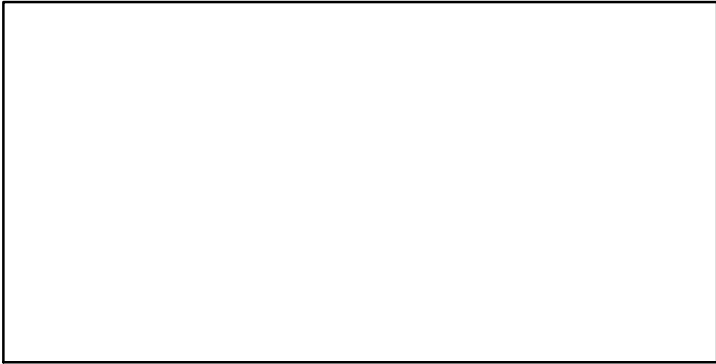
TB-MT (1980–2016–ICESIMP2016)



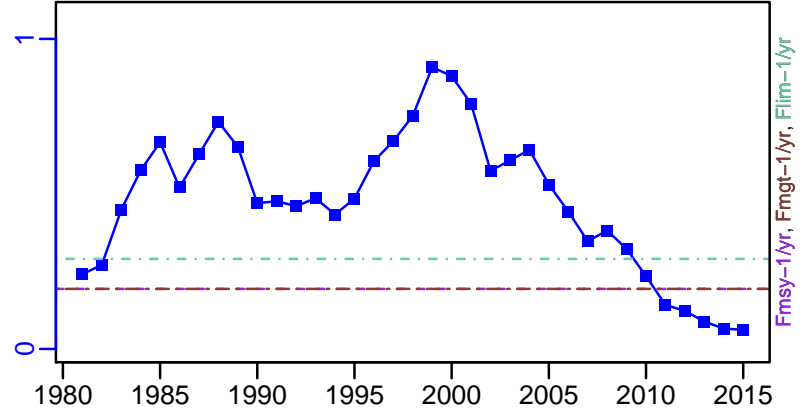
SSB-MT (1980–2016–ICESIMP2016)



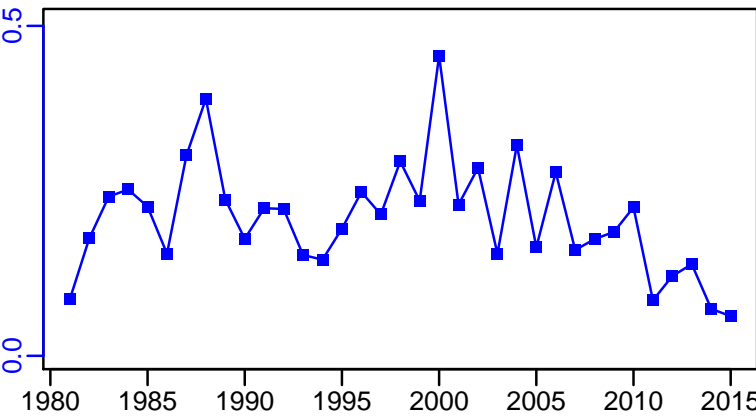
TN \*



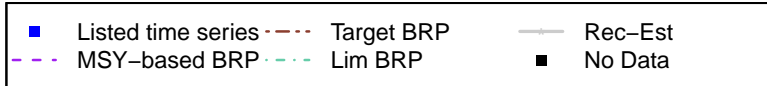
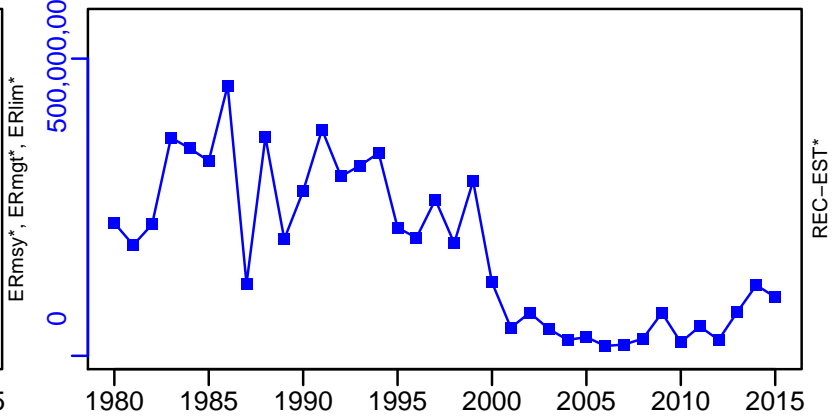
F-1/yr (1980–2016–ICESIMP2016)



ER-calc-ratio (1980–2016–ICESIMP2016)

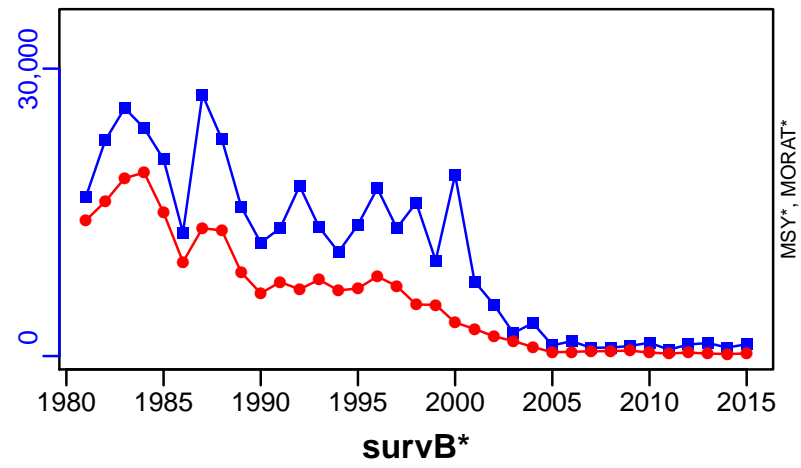


R-E00 (1980–2016–ICESIMP2016)

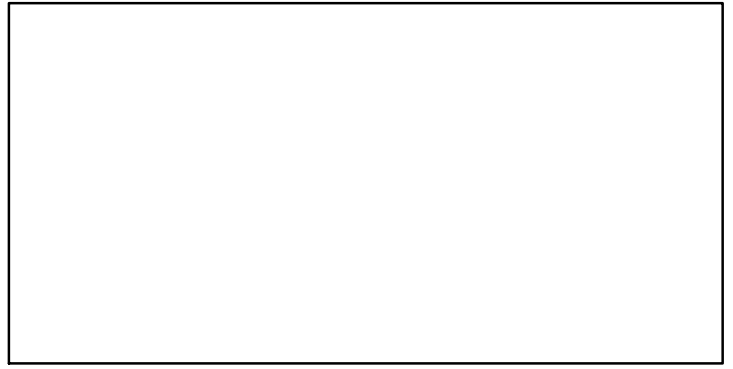


Whiting ICES Via [WHITVla]

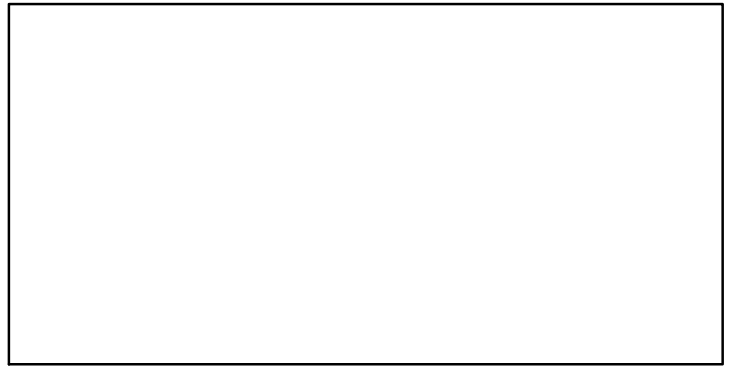
TC-MT, TL-MT, RecC\* (1980-2016-ICESIMP2016)



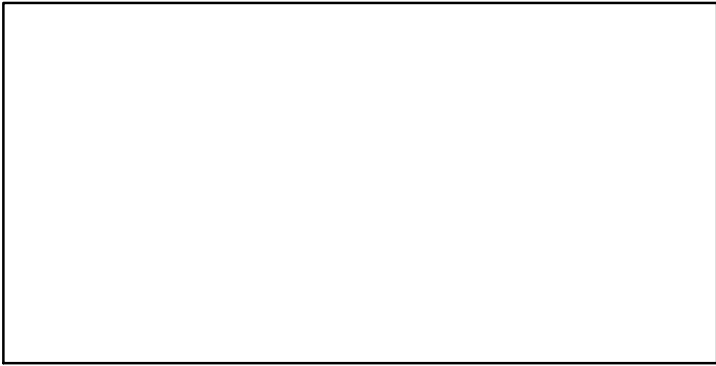
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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



## Whiting ICES Vlle-k [WHITVllek]

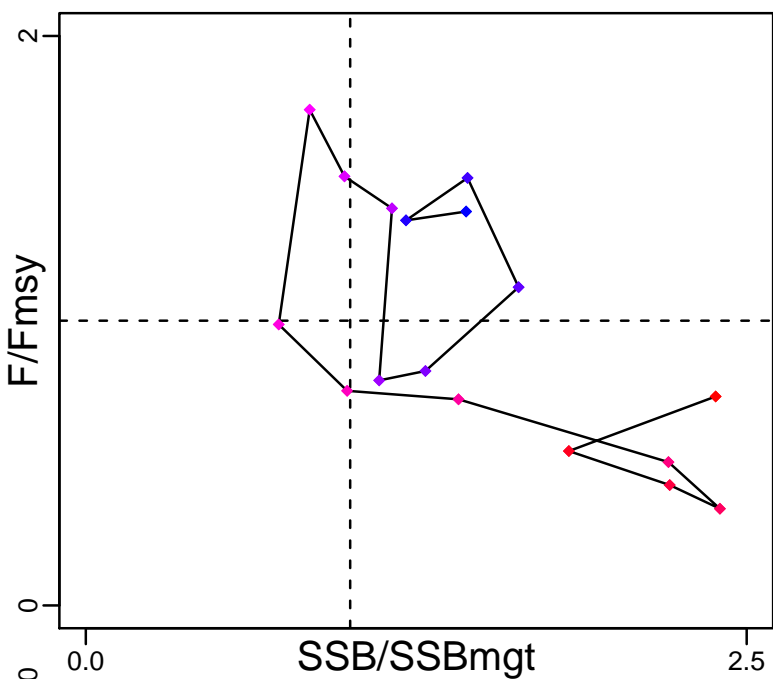
Metadata	
<b>Scientific Name</b>	Merlangius merlangus
<b>Current Assess ID</b>	WGCSE-WHITVllek-1999-2016-ICESIMP2016
<b>Area</b>	Celtic Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Celtic Seas Ecosystems
<b>Asmts in RAM</b>	2013,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

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

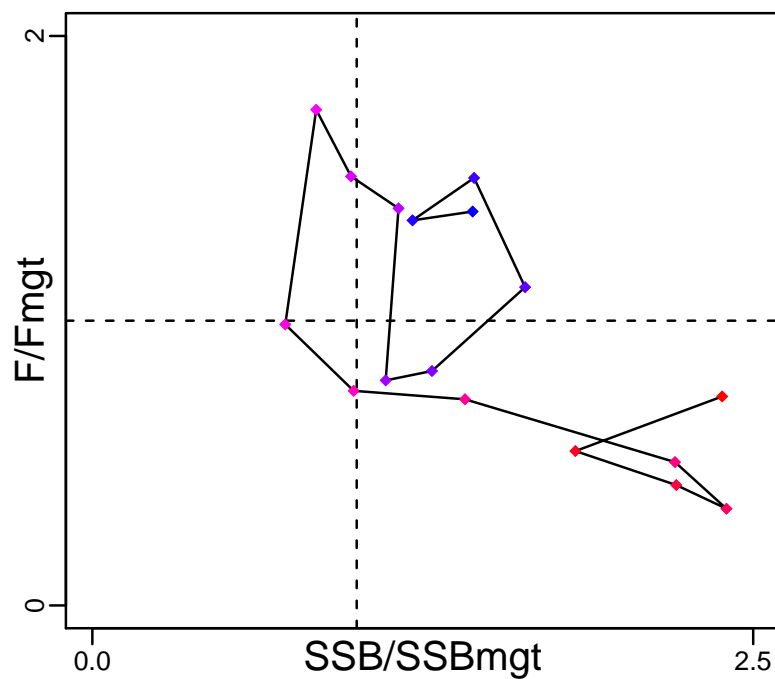
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	95,300	Both	-
<b>SSB</b>	SSB-MT	2016	63,900	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	$9.81 \times 10^8$	-	0
<b>F</b>	F-1/yr	2016	0.382	-	2 to 5
<b>ER</b>	ER-calc-ratio	2016	0.202	-	-
<b>TC</b>	TC-MT	2016	19,300		
<b>TL</b>	TL-MT	2016	13,200		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.734		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	1.826		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.734		
<b>ER/ERmgt</b>	-	-	-		

# Whiting ICES Vlle-k [WHITVllek]

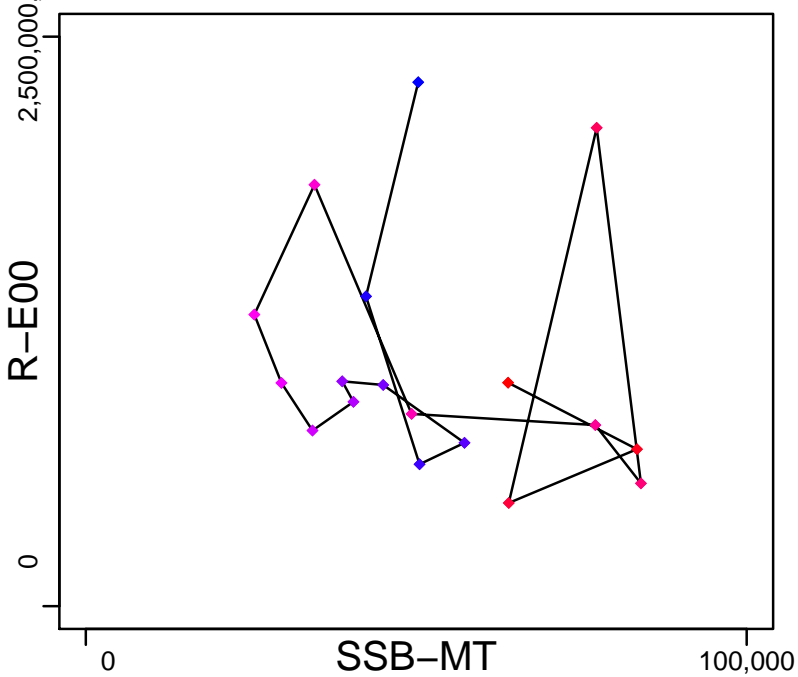
Kobe MSYpref (1999–2016–ICESIMP2016)



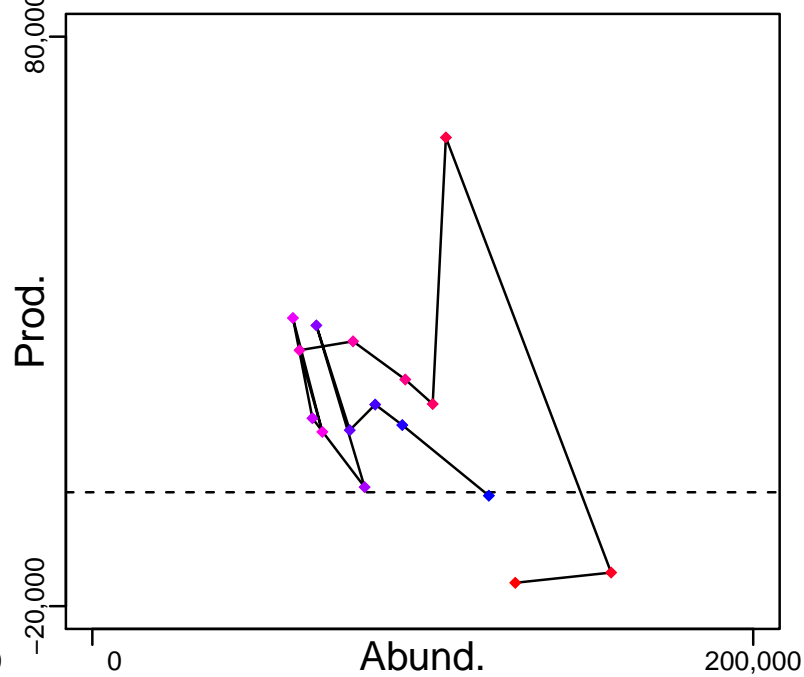
Kobe MGTpref (1999–2016–ICESIMP2016)



Spawner Recruit (1999–2016–ICESIMP2016)



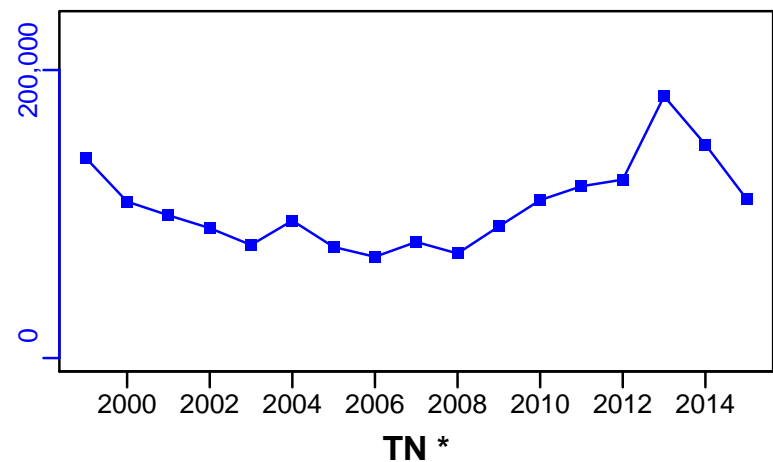
Production (1999–2016–ICESIMP2016)



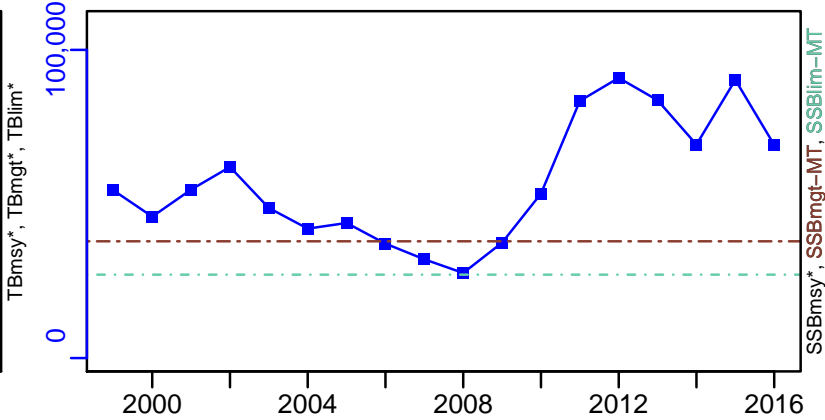
◆ Start Year ◆ End Year \* No Data

# Whiting ICES Vlle-k [WHITVllek]

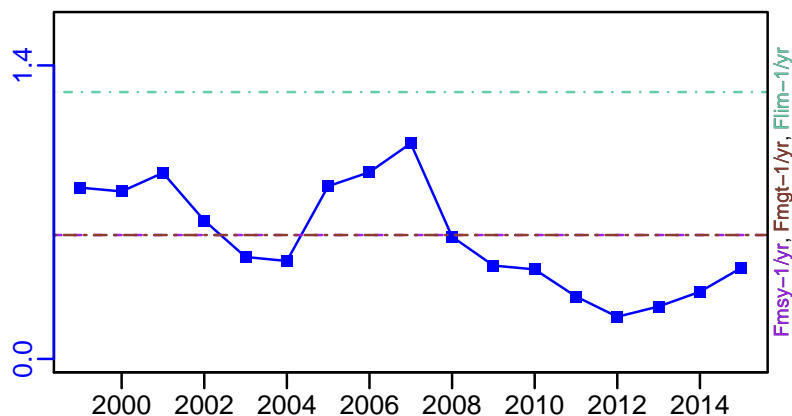
TB-MT (1999–2016–ICESIMP2016)



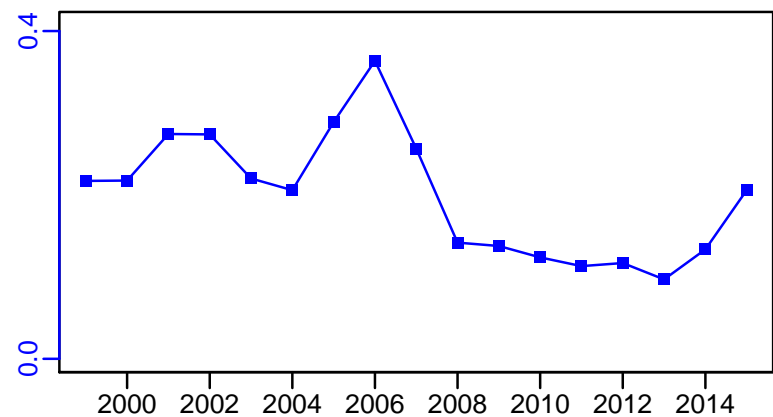
SSB-MT (1999–2016–ICESIMP2016)



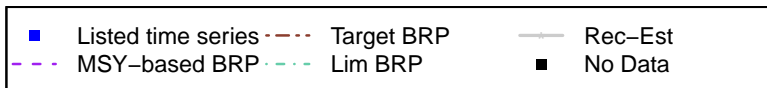
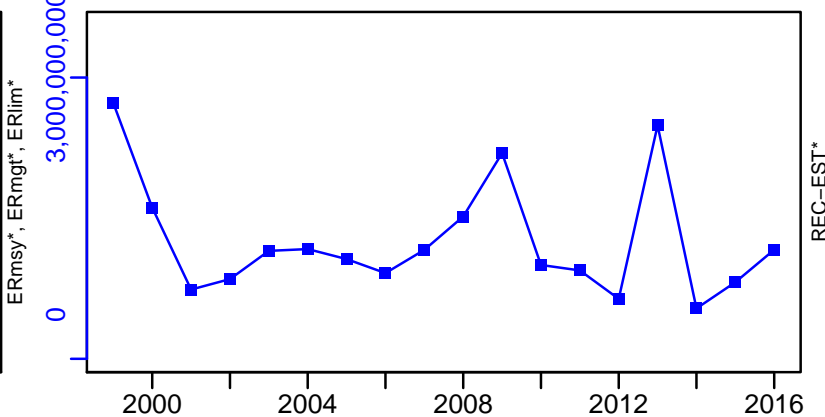
F-1/yr (1999–2016–ICESIMP2016)



ER-calc-ratio (1999–2016–ICESIMP2016)



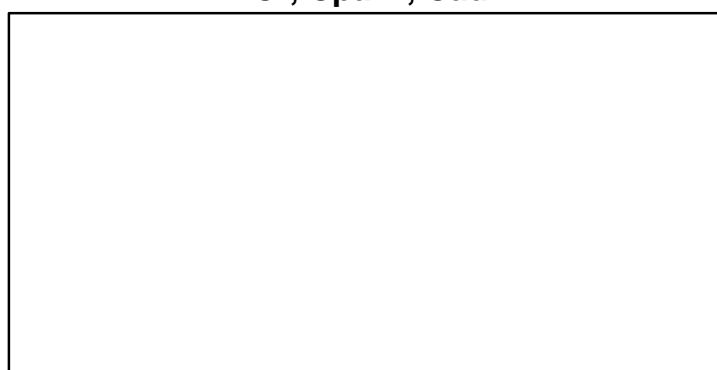
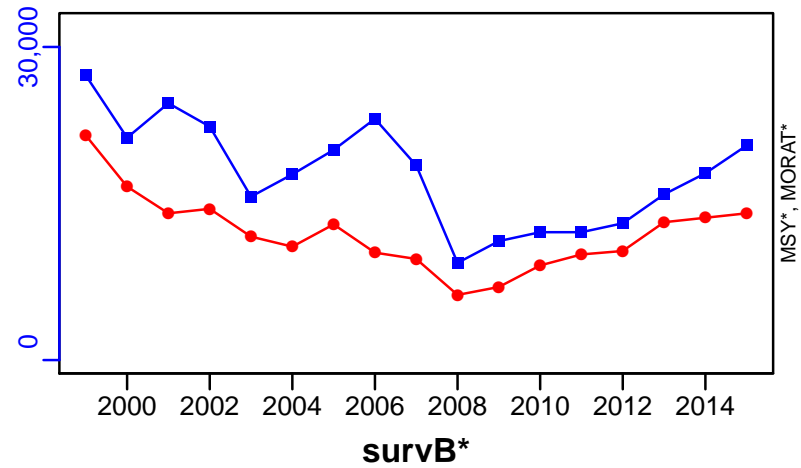
R-E00 (1999–2016–ICESIMP2016)



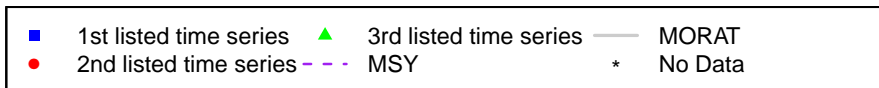
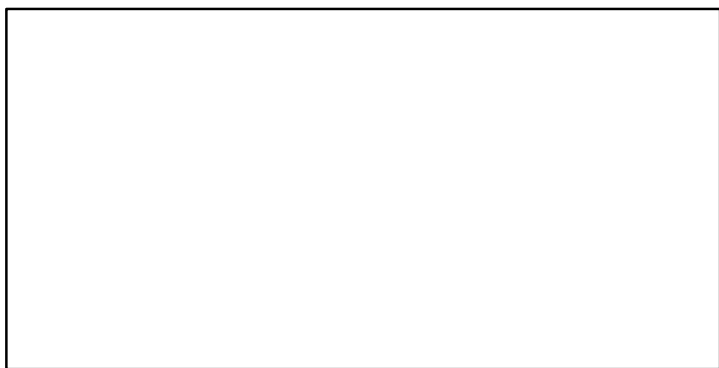
# Whiting ICES Vlle-k [WHITVllek]

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

TAC\*, Cpair\*, Cadv\*



EFFORT\*



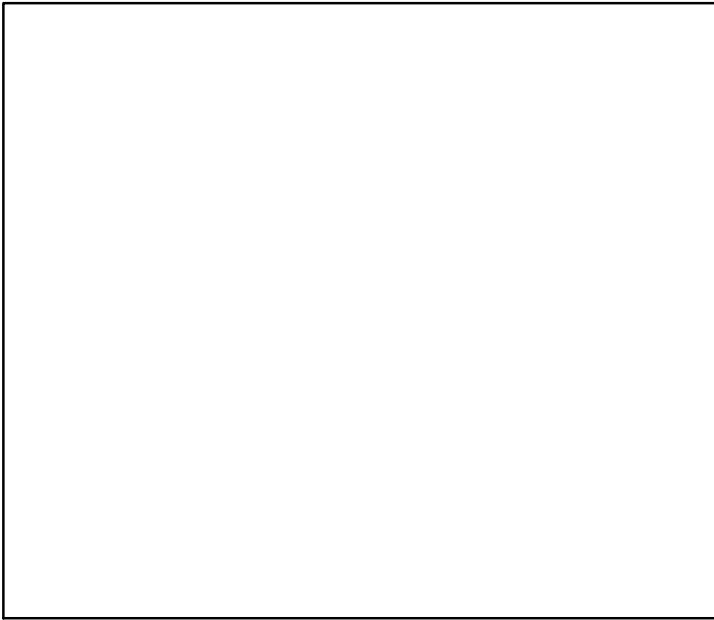
## Whiting VIII and IXa [WHITVIII-IXa]

Metadata	
<b>Scientific Name</b>	Merlangius merlangus
<b>Current Assess ID</b>	WGBIE-WHITVIII-IXa-1994-2016-ICESIMP2016
<b>Area</b>	VIII and IXa
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group for the Bay of Biscay and the Iberian Waters Ecoregion
<b>Asmts in RAM</b>	2015, 2016

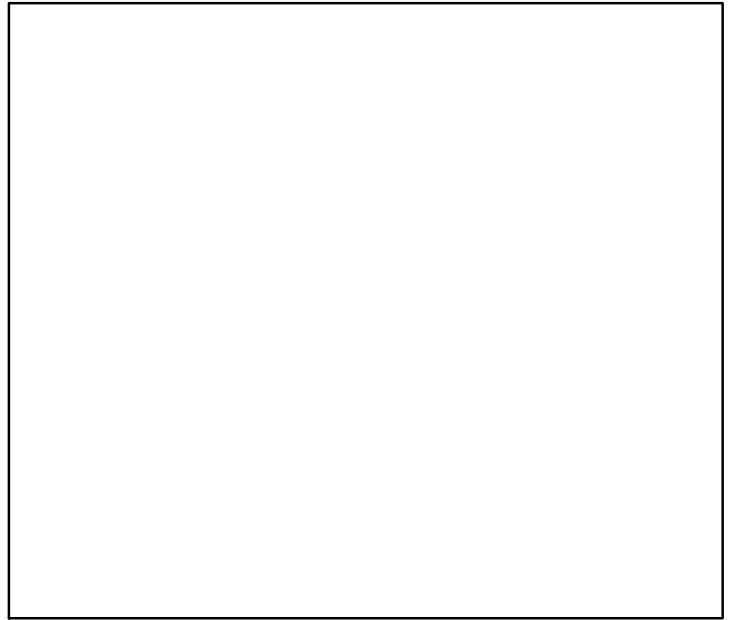
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	2200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

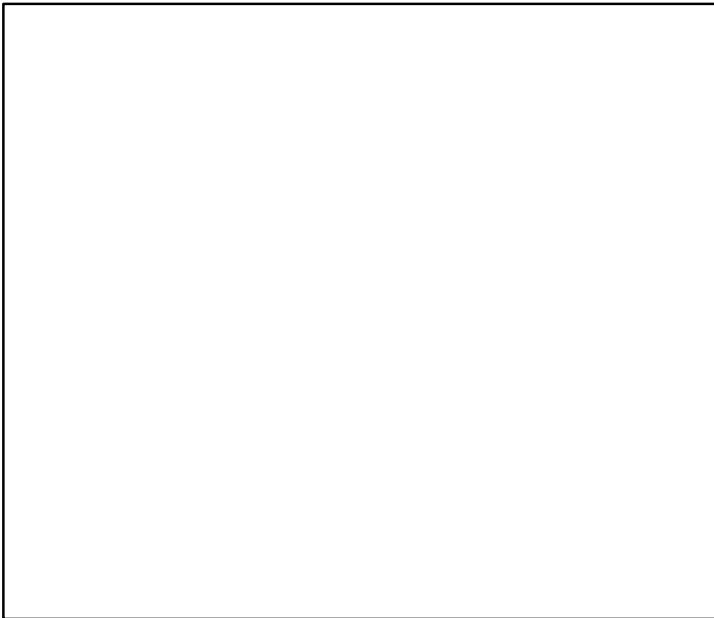
**Kobe MSY\***



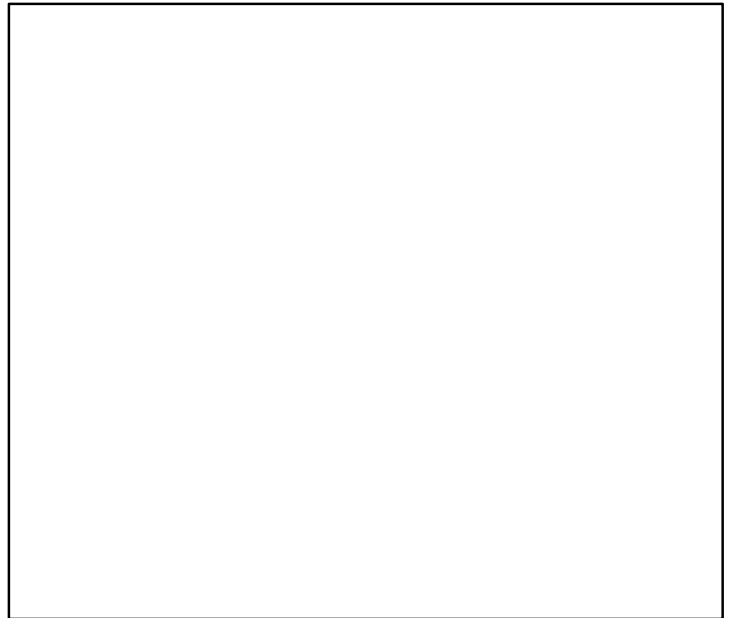
**Kobe MGT\***



**Spawner Recruit\***



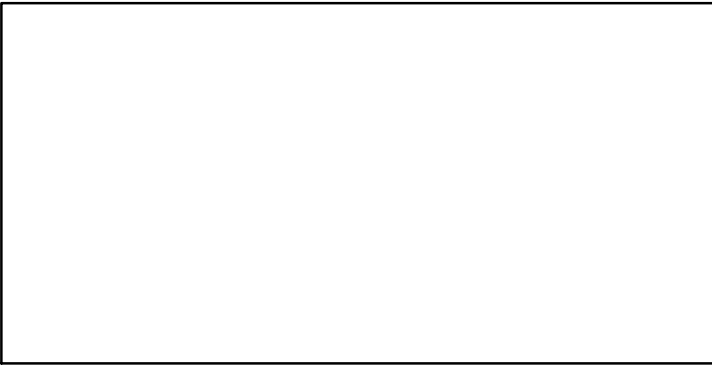
**Production\***



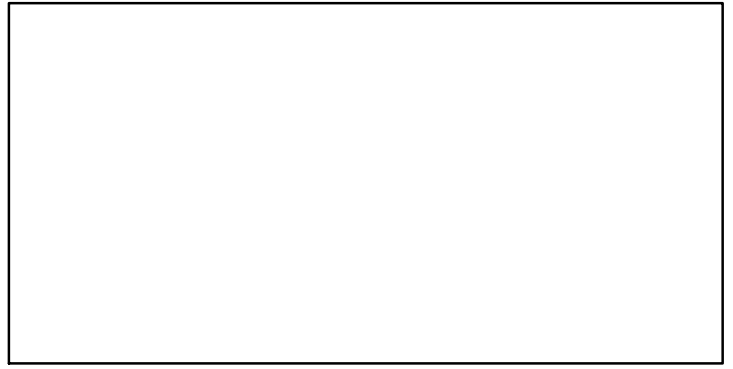
◆ Start Year    ◆ End Year    \* No Data

Whiting VIII and IXa [WHITVIII-IXa]

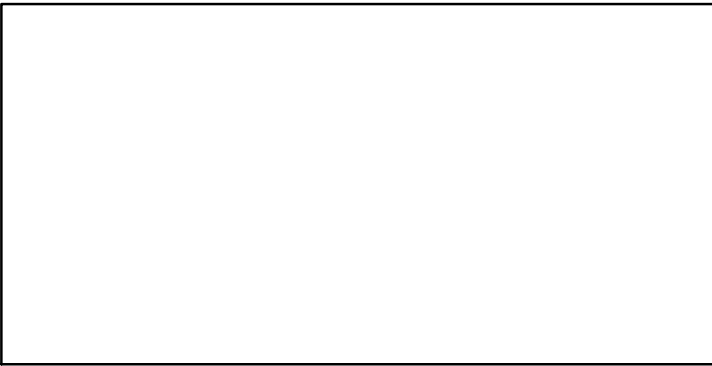
**TB\***



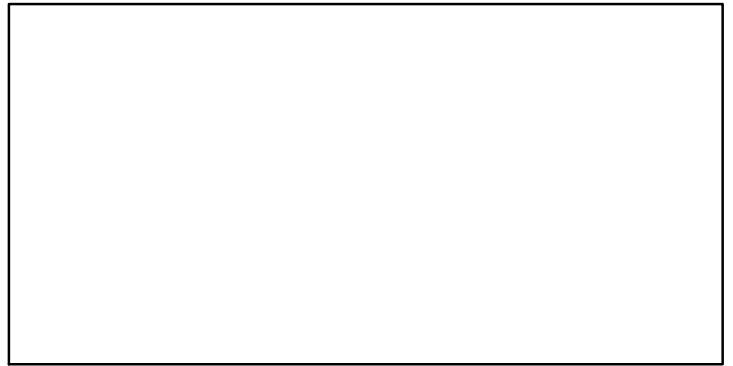
**SSB\***



**TN \***



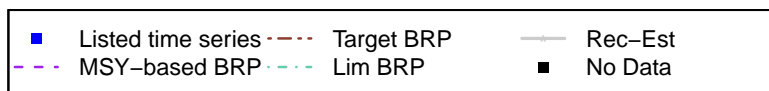
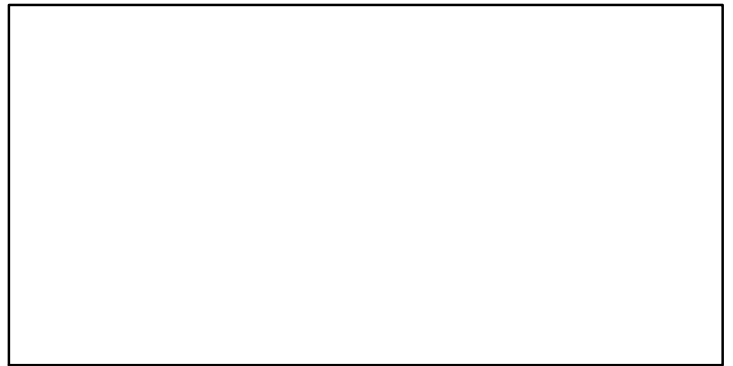
**F\***



**ER\***

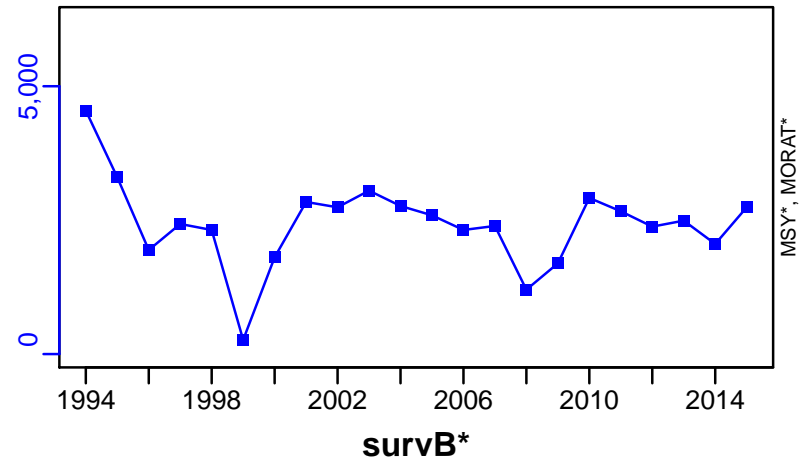


**Recruits\***

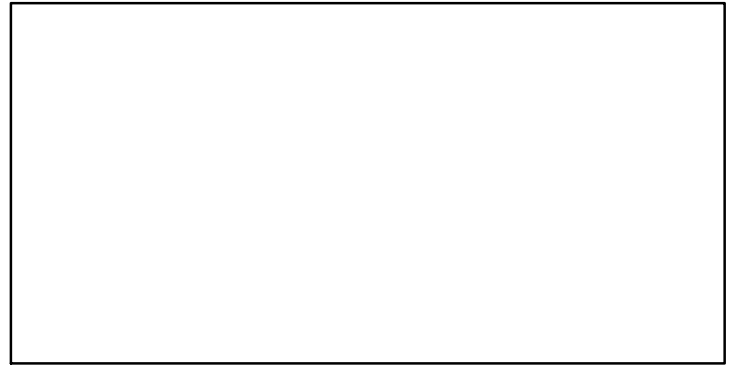


Whiting VIII and IXa [WHITVIII-IXa]

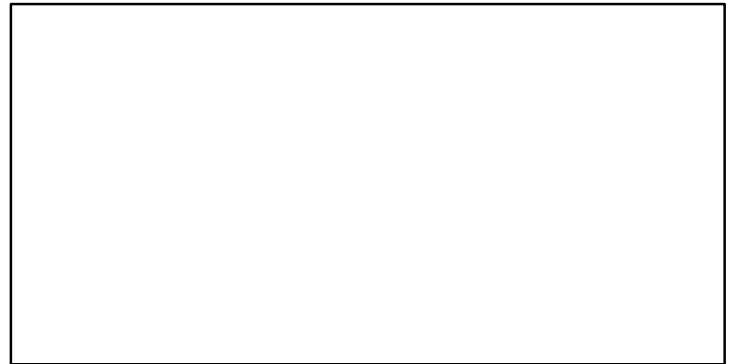
TL-MT, TC\*, RecC\* (1994-2016-ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



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