

# Mediterranean-Black Sea Stocks

## v4.495 (Apr-17-2021)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ALBAMED [Albacore tuna Mediterranean Sea]	TB SSB	ER F	TB SSB	ER F	
2. ANCHMEDGSA1 [Anchovy Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F	
3. ANCHMEDGSA16 [Anchovy South of Sicily]	TB SSB	ER F	TB SSB	ER F	
4. ANCHMEDGSA17-18 [Anchovy Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F	
5. ANCHMEDGSA19 [Anchovy Western Ionian Sea]	TB SSB	ER F	TB SSB	ER F	
6. ANCHMEDGSA20 [Anchovy Eastern Ionian Sea]	TB SSB	ER F	TB SSB	ER F	
7. ANCHMEDGSA22 [Anchovy Aegean Sea]	TB SSB	ER F	TB SSB	ER F	
8. ANCHMEDGSA29 [Anchovy Black Sea]	TB SSB	ER F	TB SSB	ER F	
9. ANCHMEDGSA6 [Anchovy Northern Spain]	TB SSB	ER F	TB SSB	ER F	
10. ANCHMEDGSA7 [Anchovy Gulf of Lions]	TB SSB	ER F	TB SSB	ER F	
11. ANCHMEDGSA9 [Anchovy Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
12. ANGLMEDGSA15-16 [Black bellied angler Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F	
13. ANGLMEDGSA5 [Black bellied angler Balearic Island]	TB SSB	ER F	TB SSB	ER F	
14. ANGLMEDGSA6 [Black bellied angler Northern Spain]	TB SSB	ER F	TB SSB	ER F	
15. ANGLMEDGSA7 [Black bellied angler Gulf of Lions]	TB SSB	ER F	TB SSB	ER F	
16. BWHITMEDGSA1 [Blue whiting Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F	
17. BWHITMEDGSA6 [Blue whiting Northern Spain]	TB SSB	ER F	TB SSB	ER F	
18. BWHITMEDGSA9 [Blue whiting Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
19. CPANDMEDGSA15-16 [Common pandora Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F	
20. CPANDMEDGSA9 [Common pandora Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
21. EBASSGSA7 [European seabass Gulf of Lions]	TB SSB	ER F	TB SSB	ER F	
22. GFORKBMEDGSA9 [Greater forkbeard Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
23. GHBRMGSA7 [Gilthead seabream Gulf of Lions]	TB SSB	ER F	TB SSB	ER F	
24. GRSHRIMPEDGSA10 [Giant red shrimp South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
25. GRSHRIMPEDGSA11 [Giant red shrimp Sardinia]	TB SSB	ER F	TB SSB	ER F	
26. GRSHRIMPEDGSA12-16 [Giant red shrimp Geographical Sub-Areas 12-16]	TB SSB	ER F	TB SSB	ER F	
27. GRSHRIMPEDGSA18-19 [Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19)]	TB SSB	ER F	TB SSB	ER F	
28. GRSHRIMPEDGSA9 [Giant red shrimp Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F	
29. HAKEMEDGSA15-16 [Hake Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F	
30. HAKEMEDGSA1-7 [Hake Geographical Sub-Areas 1-7]	TB SSB	ER F	TB SSB	ER F	
31. HAKEMEDGSA17-18 [Hake Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F	
32. HAKEMEDGSA19 [Hake Western Ionian Sea]	TB SSB	ER F	TB SSB	ER F	

33. HAKEMEDGSA20 [Hake Eastern Ionian Sea]	TB SSB	ER F	TB SSB	ER F
34. HAKEMEDGSA22-23 [Hake Aegean Sea and Crete Island (GSA 22,23)]	TB SSB	ER F	TB SSB	ER F
35. HAKEMEDGSA7 [Hake Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
36. HAKEMEDGSA9-11 [Hake Geographical Sub-Areas 9-11]	TB SSB	ER F	TB SSB	ER F
37. MHMACKMEDGSA29 [Mediterranean horse mackerel Black Sea]	TB SSB	ER F	TB SSB	ER F
38. NEPHMEDGSA1 [Norway lobster Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
39. NEPHMEDGSA11 [Norway lobster Sardinia]	TB SSB	ER F	TB SSB	ER F
40. NEPHMEDGSA15-16 [Norway lobster Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
41. NEPHMEDGSA17-18 [Norway lobster Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
42. NEPHMEDGSA5 [Norway lobster Balearic Island]	TB SSB	ER F	TB SSB	ER F
43. NEPHMEDGSA6 [Norway lobster Northern Spain]	TB SSB	ER F	TB SSB	ER F
44. NEPHMEDGSA9 [Norway lobster Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
45. PICAMEDGSA25 [Picarel Cyprus Island]	TB SSB	ER F	TB SSB	ER F
46. PRCODMEDGSA9 [Poor cod Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
47. PSHRMPMEDGSA6 [Deep water rose shrimp Northern Spain]	TB SSB	ER F	TB SSB	ER F
48. RBRMMEDGSA1-3 [Red seabream Alboran Island Sea (GSA 1,3)]	TB SSB	ER F	TB SSB	ER F
49. RDSHRMPMEDGSA1 [Red shrimp Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
50. RDSHRMPMEDGSA10 [Red shrimp South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
51. RDSHRMPMEDGSA15-16 [Red shrimp Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
52. RDSHRMPMEDGSA6 [Red shrimp Northern Spain]	TB SSB	ER F	TB SSB	ER F
53. RMULLMEDGSA1 [Red mullet Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
54. RMULLMEDGSA10 [Red mullet South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
55. RMULLMEDGSA11 [Red mullet Sardinia]	TB SSB	ER F	TB SSB	ER F
56. RMULLMEDGSA15-16 [Red mullet Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
57. RMULLMEDGSA17-18 [Red mullet Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
58. RMULLMEDGSA19 [Red mullet Western Ionian Sea]	TB SSB	ER F	TB SSB	ER F
59. RMULLMEDGSA25 [Red mullet Cyprus Island]	TB SSB	ER F	TB SSB	ER F
60. RMULLMEDGSA29 [Red mullet Black Sea]	TB SSB	ER F	TB SSB	ER F
61. RMULLMEDGSA5 [Red mullet Balearic Island]	TB SSB	ER F	TB SSB	ER F
62. RMULLMEDGSA6 [Red mullet Northern Spain]	TB SSB	ER F	TB SSB	ER F
63. RMULLMEDGSA7 [Red mullet Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
64. RMULLMEDGSA9 [Red mullet Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
65. RSHRMPMEDGSA1 [Deep water rose shrimp Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
66. RSHRMPMEDGSA12-16 [Deep water rose shrimp Geographical Sub-Areas 12-16]	TB SSB	ER F	TB SSB	ER F
67. RSHRMPMEDGSA17-19 [Deep water rose shrimp Geographical Sub-Areas 17-19]	TB SSB	ER F	TB SSB	ER F
68. RSHRMPMEDGSA5 [Deep water rose shrimp Balearic Island]	TB SSB	ER F	TB SSB	ER F
69. RSHRMPMEDGSA9-11 [Deep water rose shrimp Geographical Sub-Areas 9-11]	TB SSB	ER F	TB SSB	ER F
70. SARDMEDGSA1 [European pilchard Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
71. SARDMEDGSA16 [Sardine South of Sicily]	TB SSB	ER F	TB SSB	ER F
72. SARDMEDGSA17-18 [Sardine Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F

73. SARDMEDGSA20 [European pilchard Eastern Ionian Sea]	TB SSB	ER F	TB SSB	ER F
74. SARDMEDGSA22 [European pilchard Aegean Sea]	TB SSB	ER F	TB SSB	ER F
75. SARDMEDGSA6 [European pilchard Northern Spain]	TB SSB	ER F	TB SSB	ER F
76. SARDMEDGSA7 [Sardine Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
77. SARDMEDGSA9 [European pilchard Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
78. SDOGBLKGSA29 [Spiny dogfish Black Sea]	TB SSB	ER F	TB SSB	ER F
79. SMSHRMPMEDGSA10 [Spottail mantis shrimp South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
80. SMSHRMPMEDGSA17-18 [Spottail mantis shrimp Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
81. SMSHRMPMEDGSA9 [Spottail mantis shrimp Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
82. SMULLMEDGSA15-16 [Surmullet Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
83. SMULLMEDGSA5 [Surmullet Balearic Island]	TB SSB	ER F	TB SSB	ER F
84. SMULLMEDGSA9 [Surmullet Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
85. SOLMEDGSA17 [Common sole Northern Adriatic Sea]	TB SSB	ER F	TB SSB	ER F
86. SOLMEDGSA7 [Common sole Gulf of Lions]	TB SSB	ER F	TB SSB	ER F
87. SPRBLKGSA29 [Sprat Black Sea]	TB SSB	ER F	TB SSB	ER F
88. SWORDMED [Swordfish Mediterranean Sea]	TB SSB	ER F	TB SSB	ER F
89. TBSKAMEDGSA29 [Thornback skate Black Sea]	TB SSB	ER F	TB SSB	ER F
90. TURBLKGSA29 [Turbot Black Sea]	TB SSB	ER F	TB SSB	ER F
91. WANGLGSA1-7 [White anglerfish Geographical Sub-Areas 1-7]	TB SSB	ER F	TB SSB	ER F
92. WHITMEDGSA29 [Whiting Black Sea]	TB SSB	ER F	TB SSB	ER F

## Albacore tuna Mediterranean Sea [ALBAMED]

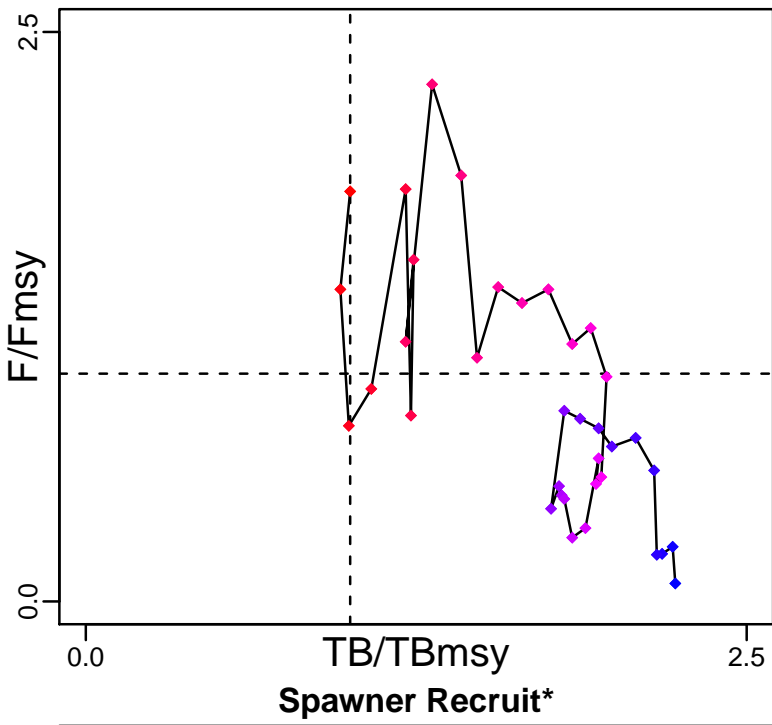
Metadata	
<b>Scientific Name</b>	Thunnus alalunga
<b>Current Assess ID</b>	ICCAT-ALBAMED-1951-2016-PONS
<b>Area</b>	Mediterranean Sea
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas
<b>Asmts in RAM</b>	2016, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2011	167,158
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-calc-ratio	2011	0.173
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2011	322,000
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	28,900
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

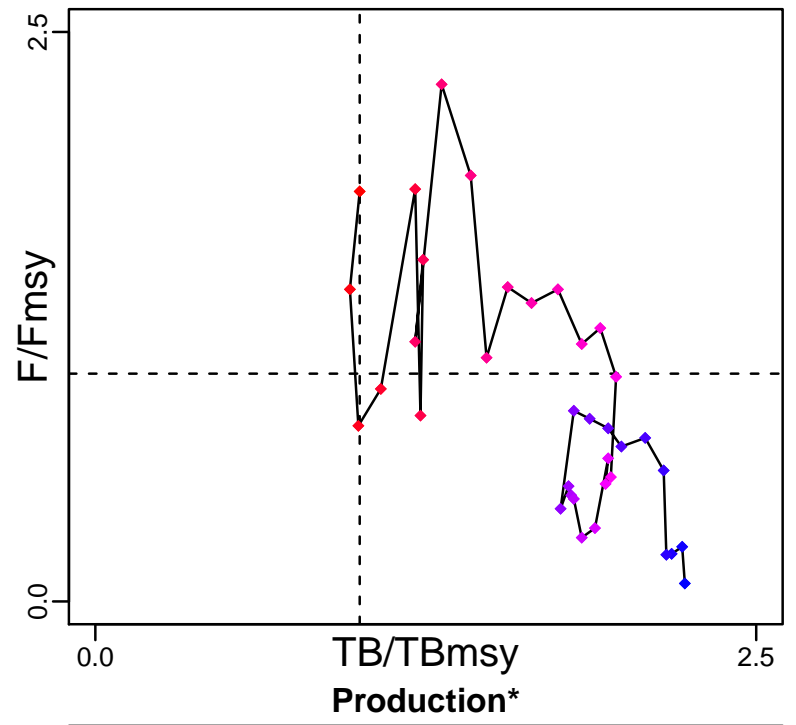
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	319,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2011	0.007	-	-
<b>TC</b>	TC-MT	2011	2120		
<b>TL</b>	TL-MT	2016	3520		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2016	1		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2016	1.8		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2011	0.039		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Albacore tuna Mediterranean Sea [ALBAMED]

Kobe MSYpref (1951–2016–PONS)



Kobe MGTpref (1951–2016–PONS)

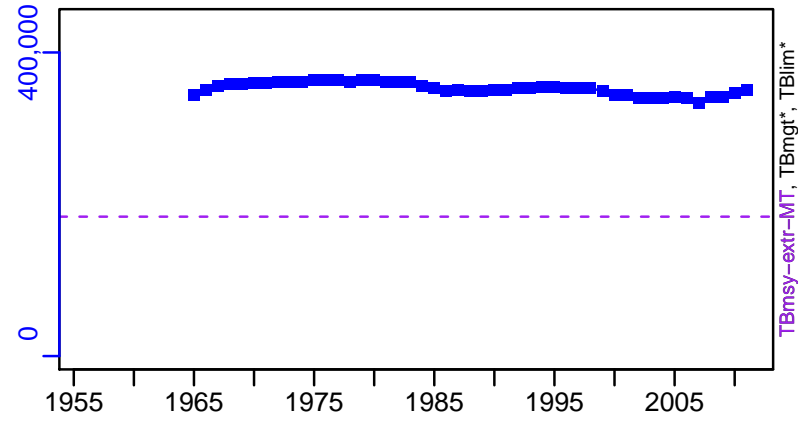


◆ Start Year ◆ End Year \* No Data

# Albacore tuna Mediterranean Sea [ALBAMED]

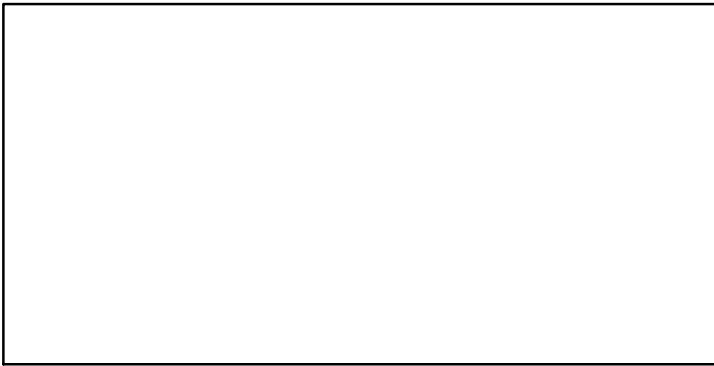
TB-MT (1956-2011-CHING)

SSB\*



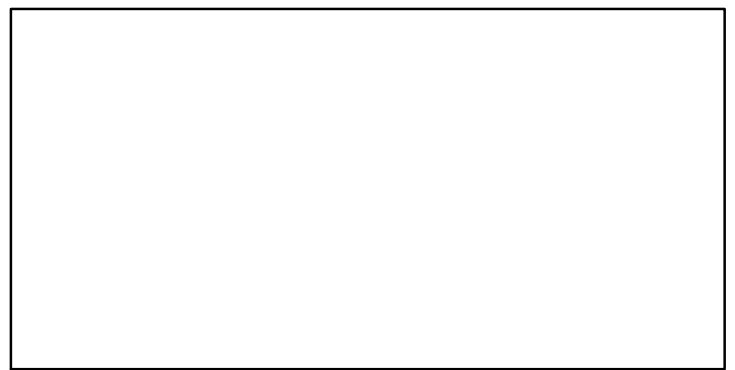
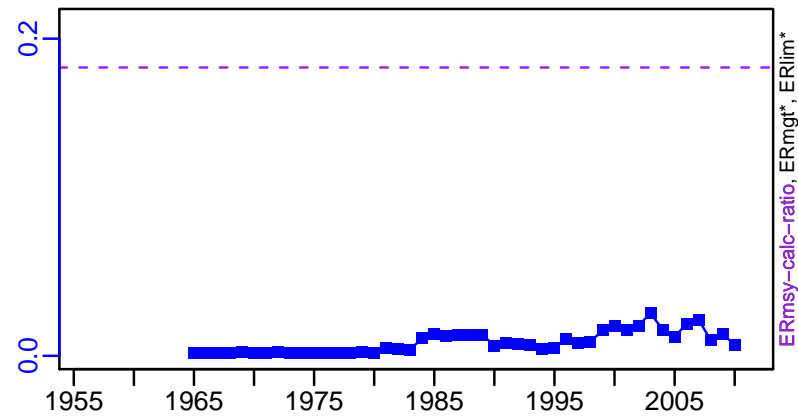
TN \*

F\*



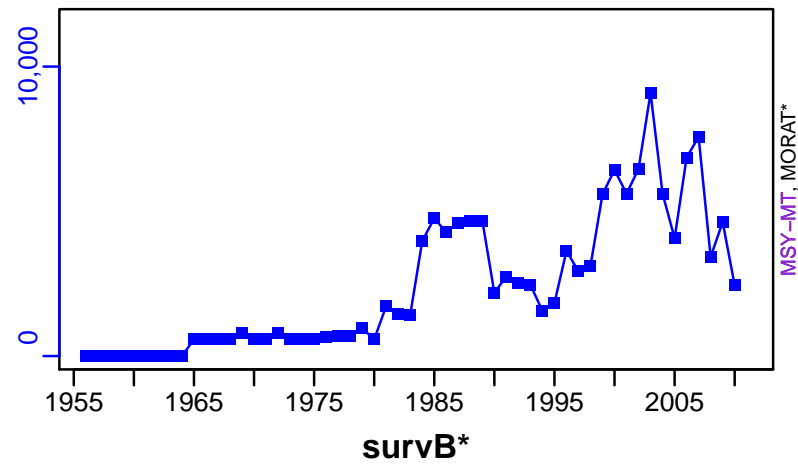
ER-calc-ratio (1956-2011-CHING)

Recruits\*



# Albacore tuna Mediterranean Sea [ALBAMED]

TC-MT, TL\*, RecC\* (1956–2011–CHING)



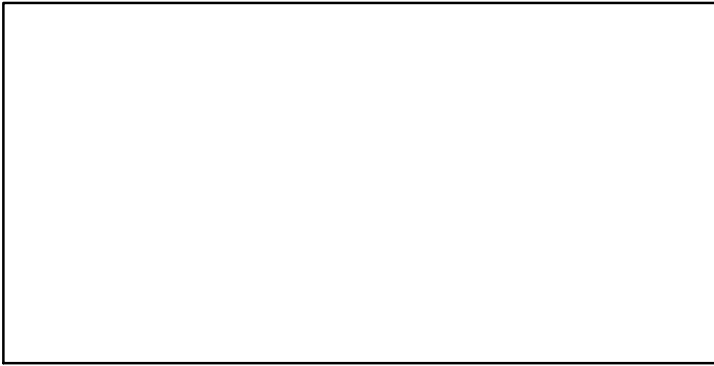
TAC\*, Cpair\*, Cadv\*



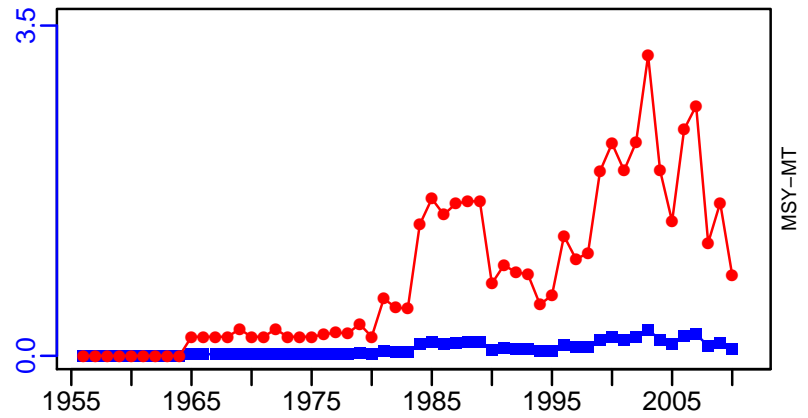
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1956–2011–CHING)



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

## Anchovy Northern Alboran Sea [ANCHMEDGSA1]

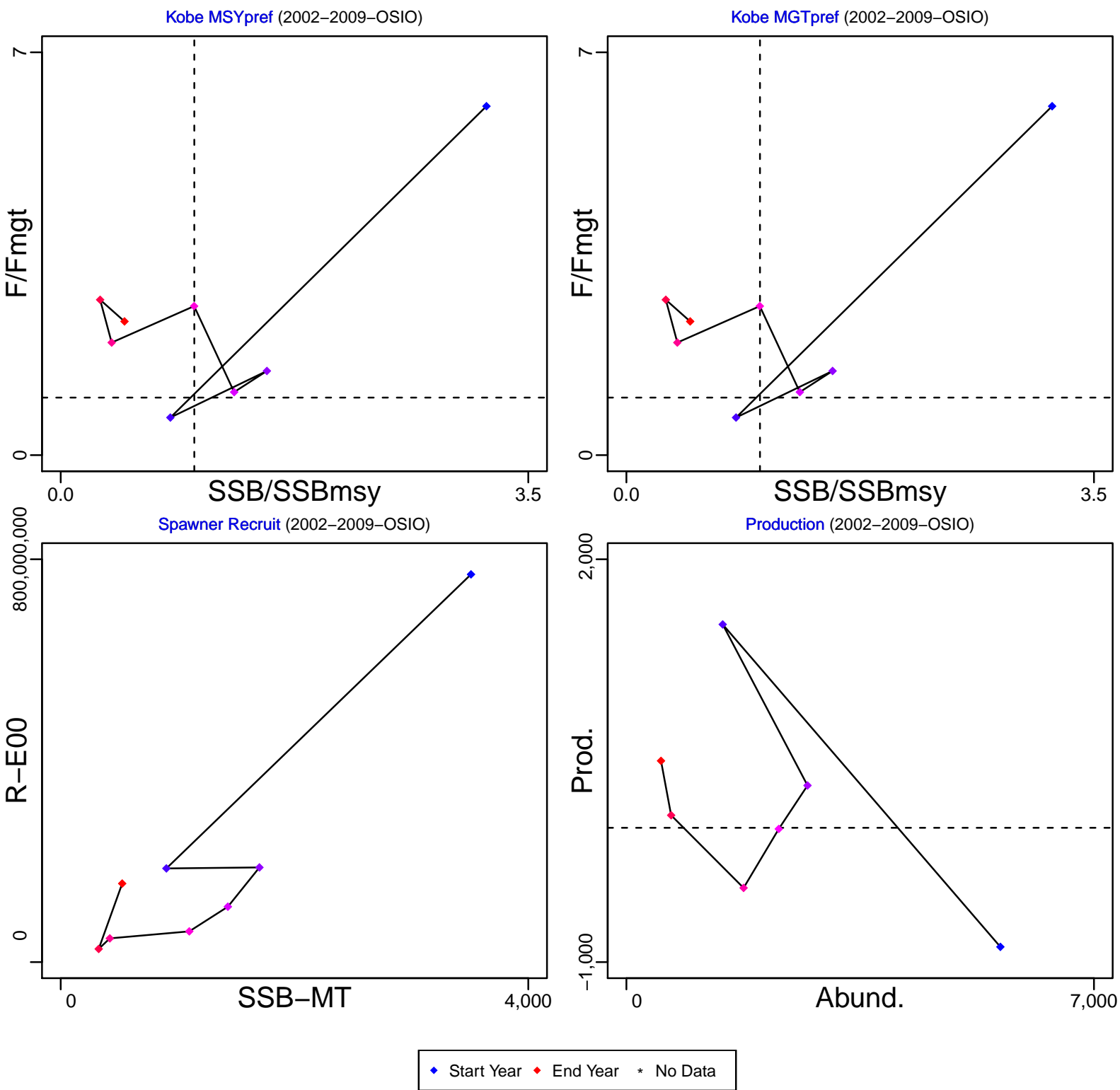
Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA1-2002-2009-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2009	1101
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2009	0.202
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2009	0.452
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2009	355
<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>	SSB-MT	2009	526	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	$1.56 \times 10^8$	-	-
<b>F</b>	F-1/yr	2009	1.05	-	-
<b>ER</b>	ER-calc-ratio	2009	0.348	-	-
<b>TC</b>	TC-MT	2009	292		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2009	0.478		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2009	1.723		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2009	2.324		
<b>ER/ERmgt</b>	-	-	-		



# Anchovy Northern Alboran Sea [ANCHMEDGSA1]

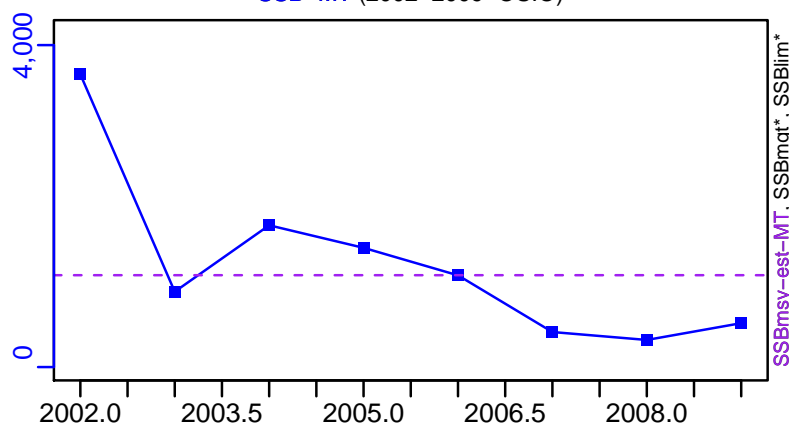


# Anchovy Northern Alboran Sea [ANCHMEDGSA1]

TB\*



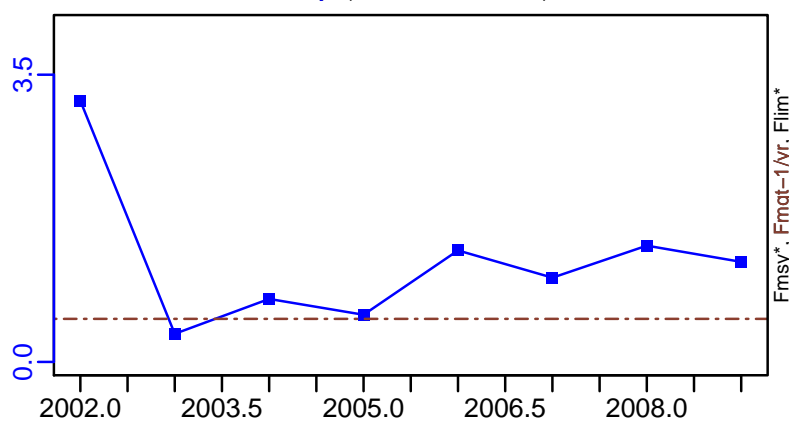
SSB-MT (2002-2009-OSIO)



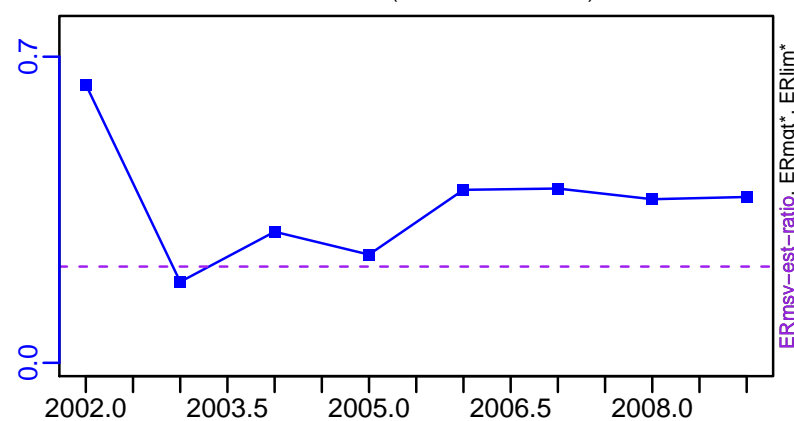
TN \*



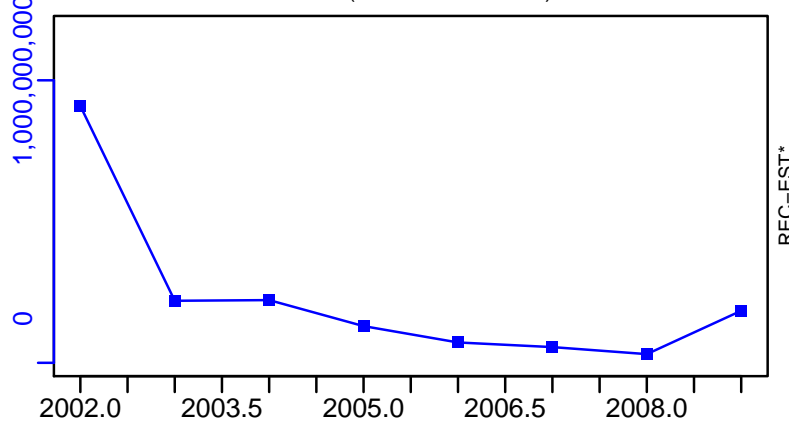
F-1/yr (2002-2009-OSIO)



ER-calc-ratio (2002-2009-OSIO)



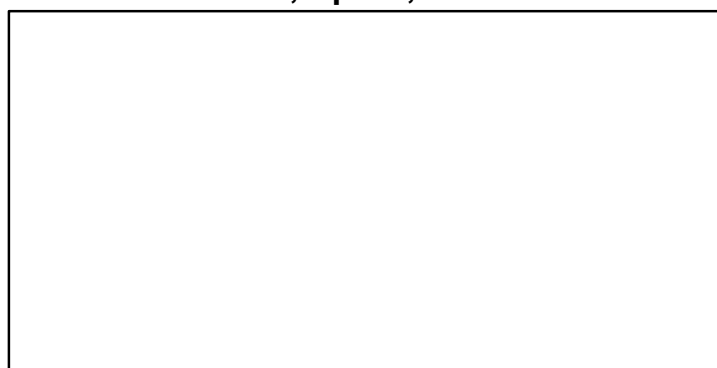
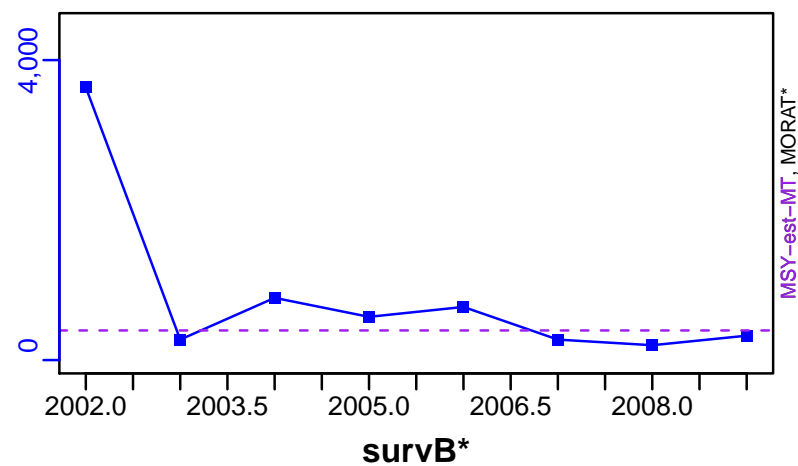
R-E00 (2002-2009-OSIO)



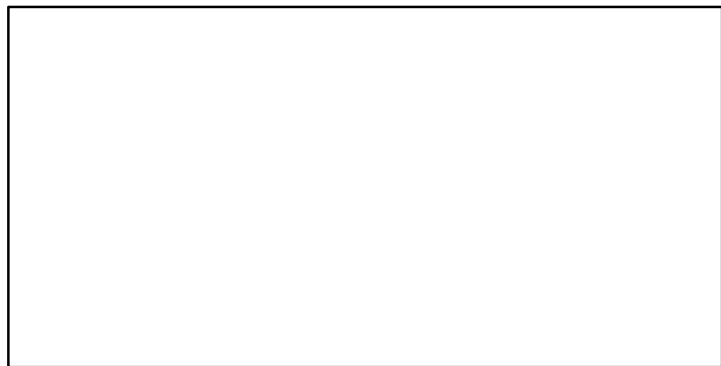
# Anchovy Northern Alboran Sea [ANCHMEDGSA1]

TC-MT, TL\*, RecC\* (2002–2009–OSIO)

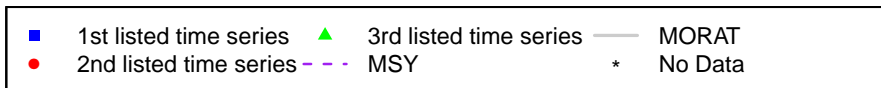
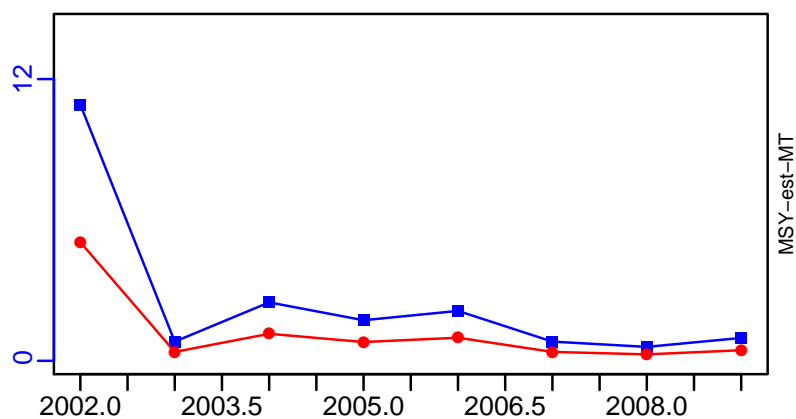
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002–2009–OSIO)



## Anchovy South of Sicily [ANCHMEDGSA16]

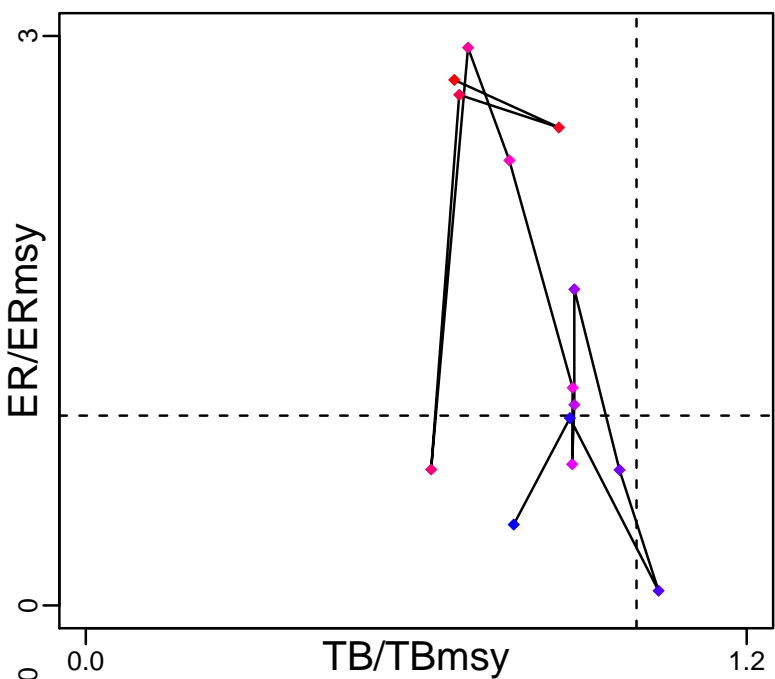
Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA16-2004-2011-OSIO
<b>Area</b>	South of Sicily
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2011	14,152
<b>SSBmsy</b>	SSBmsy-est-MT	2011	8327
<b>Fmsy</b>	Fmsy-1/yr	2011	0.17
<b>ERmsy</b>	ERmsy-calc-ratio	2011	0.167
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.08
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	2359
<b>M</b>	M-1/yr	2011	0.66
<b>TBlim</b>	TBlim-MT	2011	3130
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

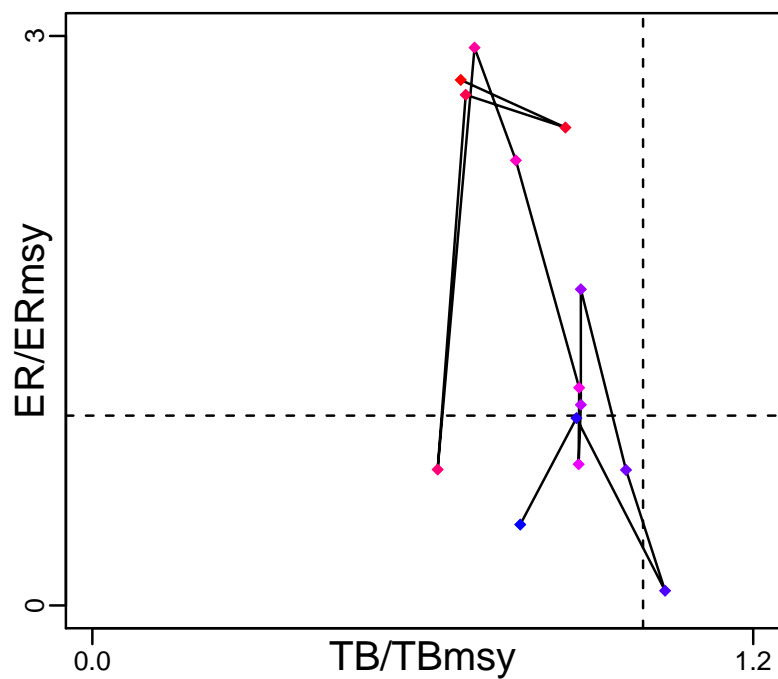
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	9470	-	-
<b>SSB</b>	SSB-MT	2011	10,700	-	0 to 5
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	$3.79 \times 10^8$	-	-
<b>F</b>	F-1/yr	2011	0.275	-	-
<b>ER</b>	ER-calc-ratio	2011	0.461	-	-
<b>TC</b>	TC-MT	2011	4370		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2011	0.669		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2011	1.285		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2011	1.62		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2011	2.768		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	9		
<b>ER/ERmgt</b>	-	-	-		

# Anchovy South of Sicily [ANCHMEDGSA16]

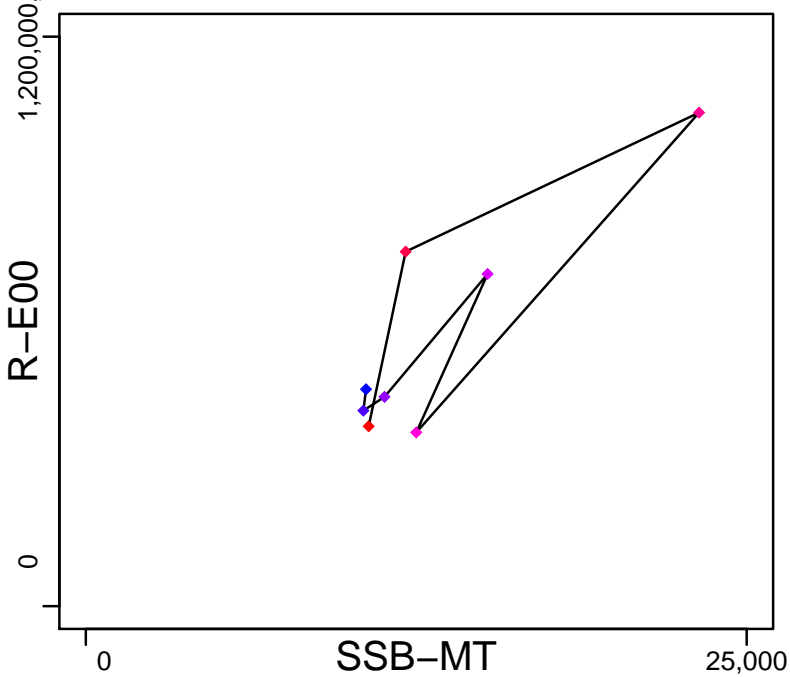
Kobe MSYpref (1998–2011–BANOB1)



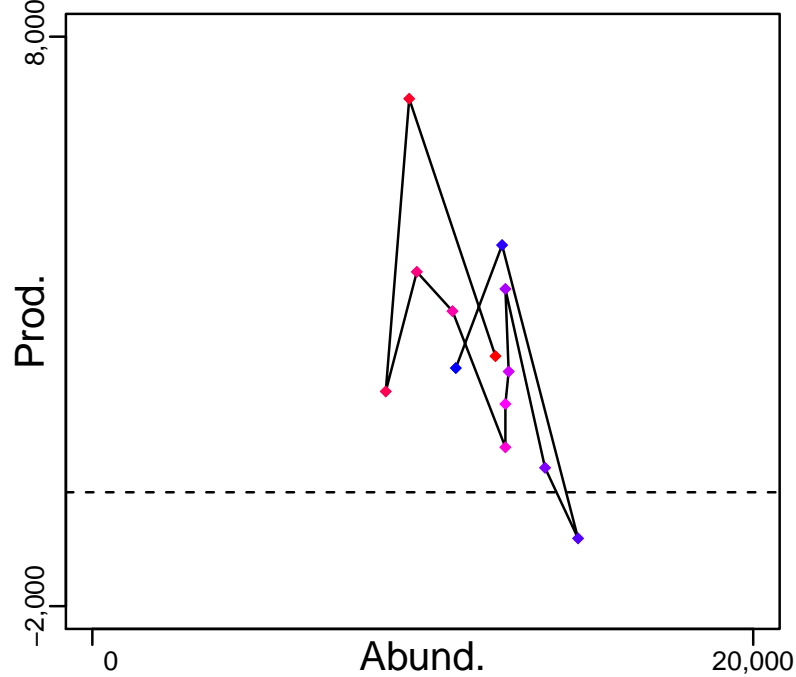
Kobe MGTpref (1998–2011–BANOB1)



Spawner Recruit (2004–2011–OSIO)



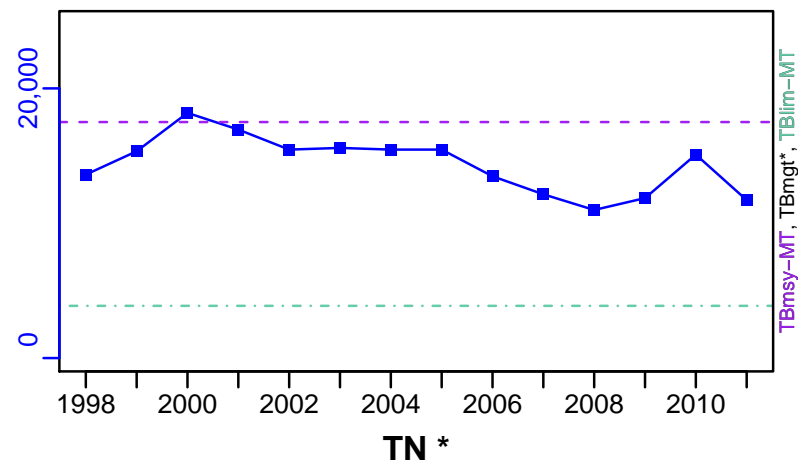
Production (1998–2011–BANOB1)



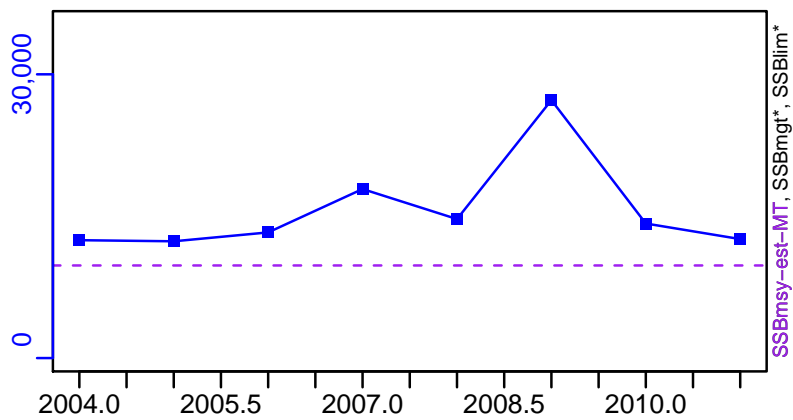
◆ Start Year ◆ End Year \* No Data

# Anchovy South of Sicily [ANCHMEDGSA16]

TB-MT (1998–2011–BANOB1)



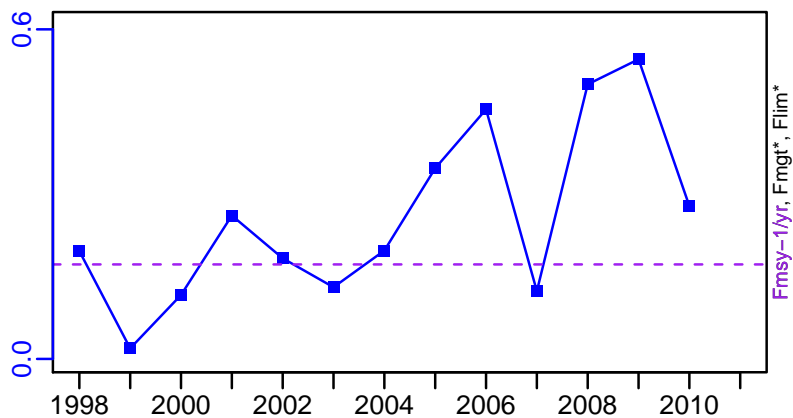
SSB-MT (2004–2011–OSIO)



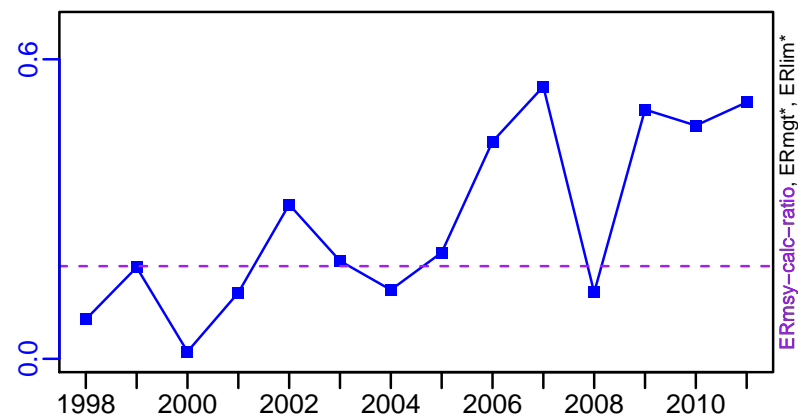
TN \*



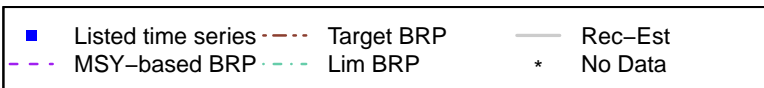
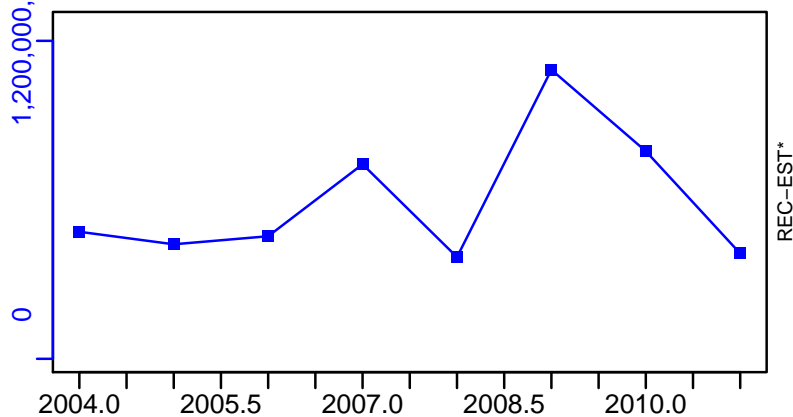
F-1/yr (1998–2011–BANOB1)



ER-calc-ratio (1998–2011–BANOB1)

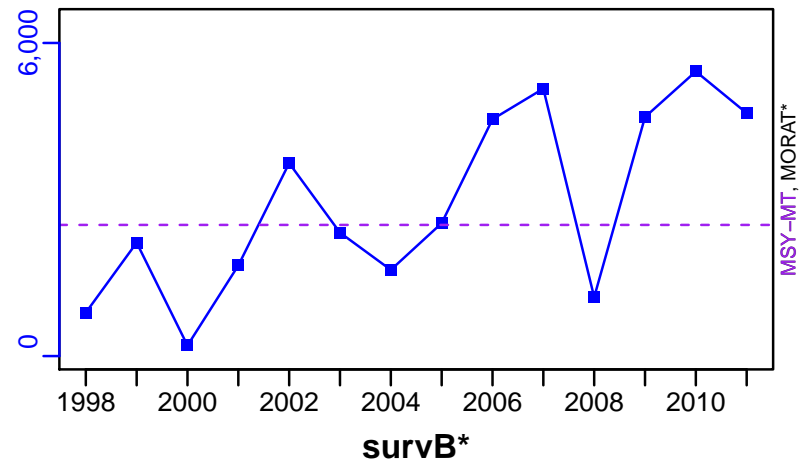


R-E00 (2004–2011–OSIO)



# Anchovy South of Sicily [ANCHMEDGSA16]

TC-MT, TL\*, RecC\* (1998–2011–BANOB)



TAC\*, Cpair\*, Cadv\*



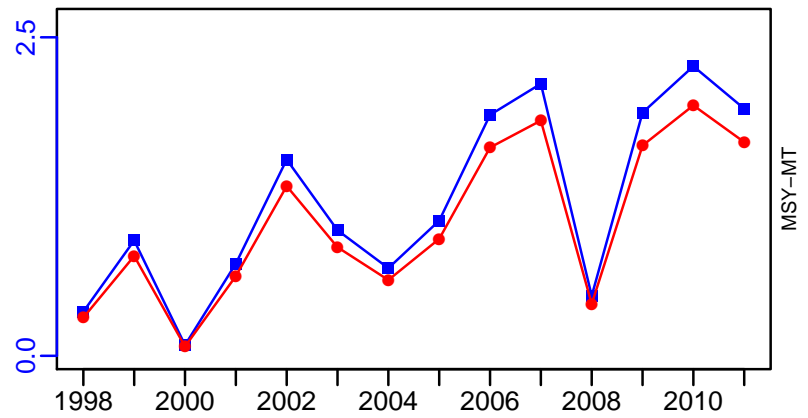
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1998–2011–BANOB)



## Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA17-18-1975-2015-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015, 2013

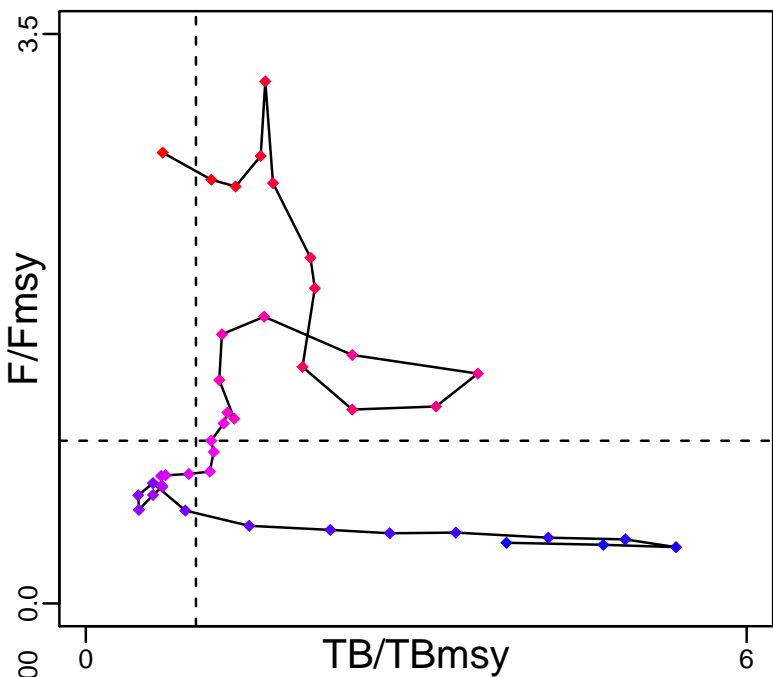
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	500,149
<b>SSBmsy</b>	SSBmsy-est-MT	2013	291,334
<b>Fmsy</b>	Fmsy-1/yr	2015	0.48
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.023
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.48
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	11,507
<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	349,000	-	-
<b>SSB</b>	SSB-MT	2015	214,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$2.93 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2015	1.33	-	-
<b>ER</b>	ER-calc-ratio	2015	0.113	-	-
<b>TC</b>	TC-MT	2015	39,400		
<b>TL</b>	TL-MT	2015	39,400		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	0.698		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	1.061		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	2.771		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	4.907		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.771		
<b>ER/ERmgt</b>	-	-	-		

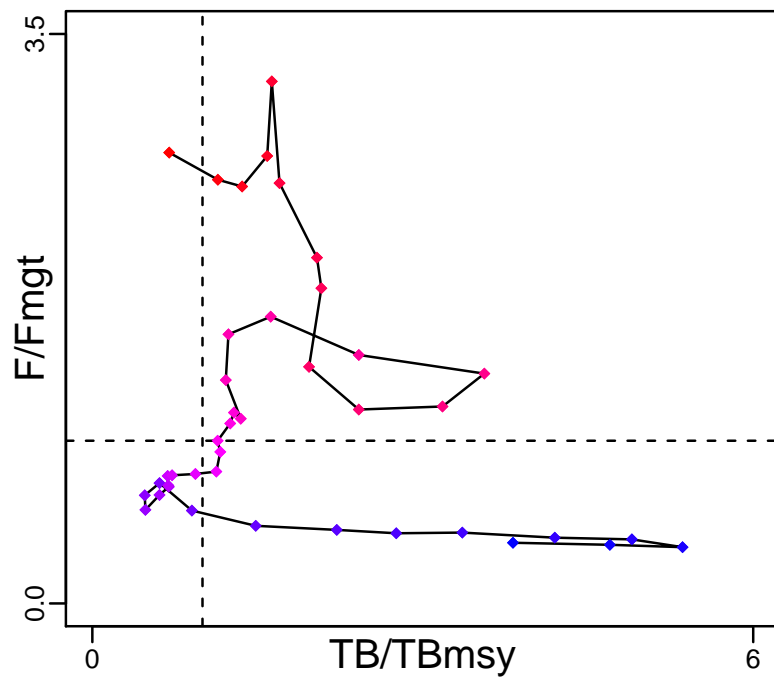


# Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]

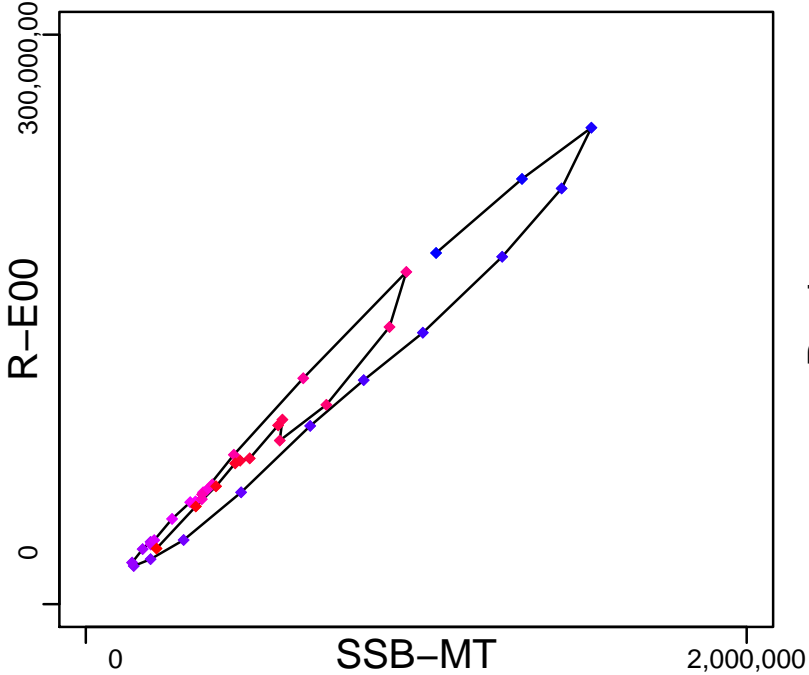
Kobe MSYpref (1975-2015-OSIO)



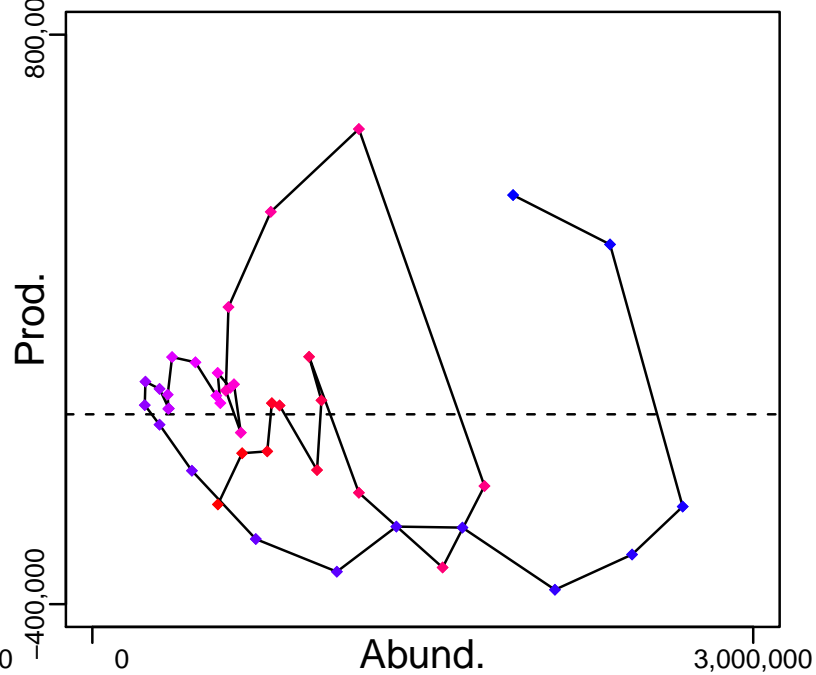
Kobe MGTpref (1975-2015-OSIO)



Spawner Recruit (1975-2015-OSIO)



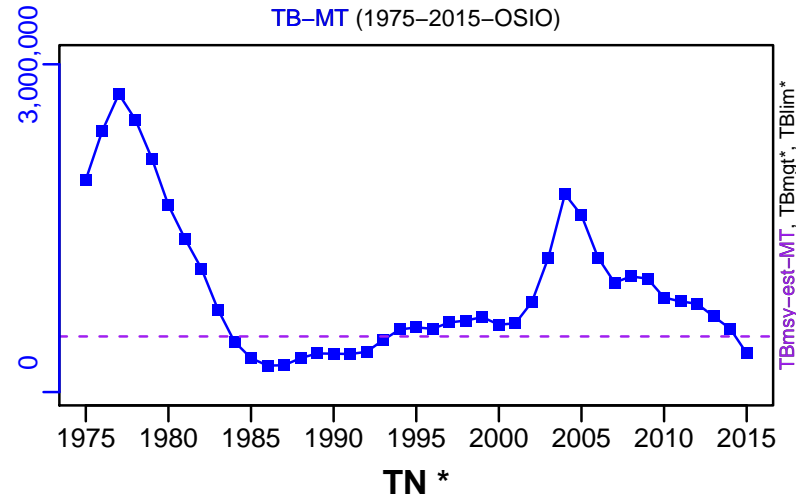
Production (1975-2015-OSIO)



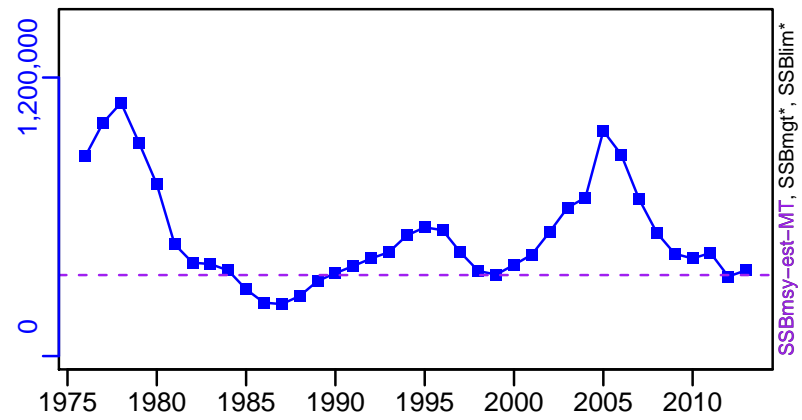
◆ Start Year ◆ End Year \* No Data

# Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]

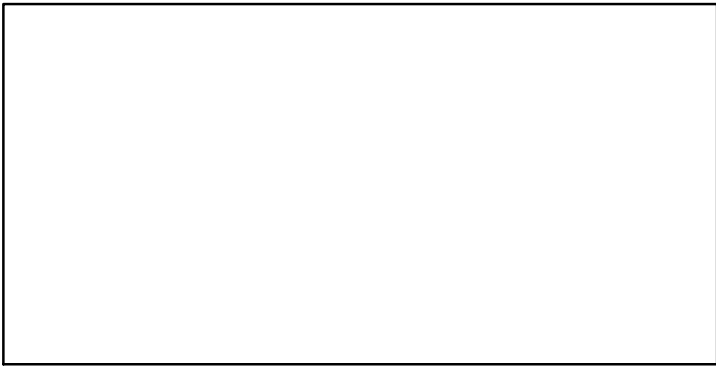
TB-MT (1975–2015–OSIO)



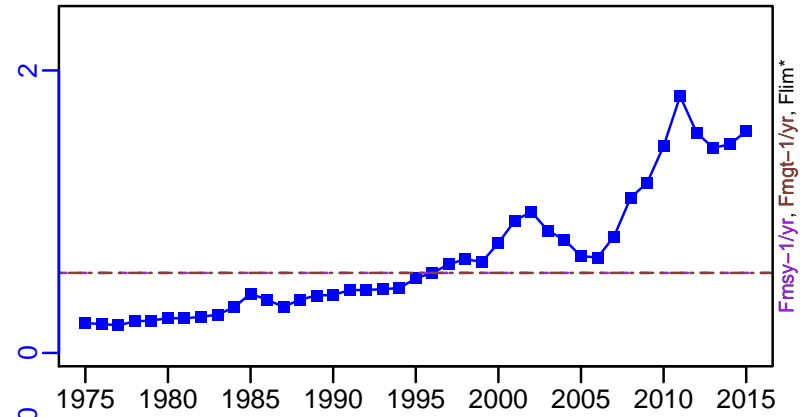
SSB-MT (1976–2013–OSIO)



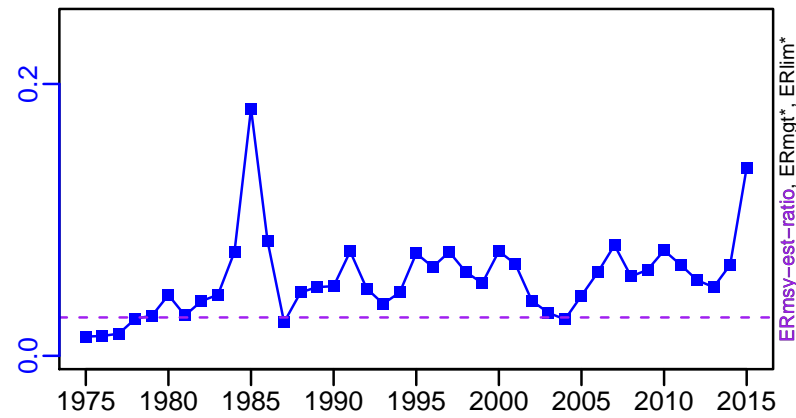
TN \*



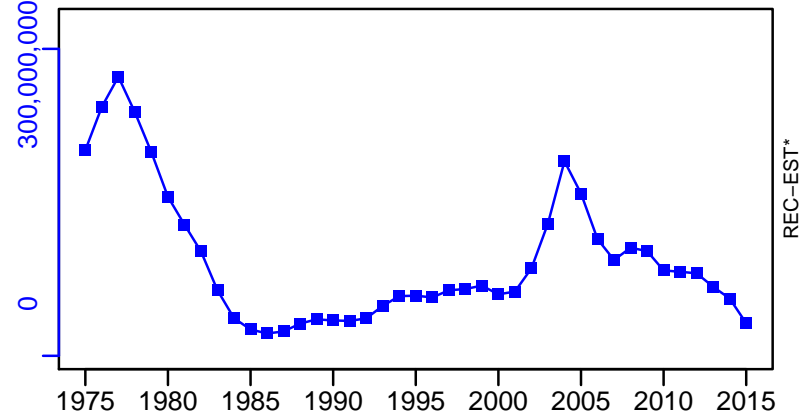
F-1/yr (1975–2015–OSIO)



ER-calc-ratio (1975–2015–OSIO)

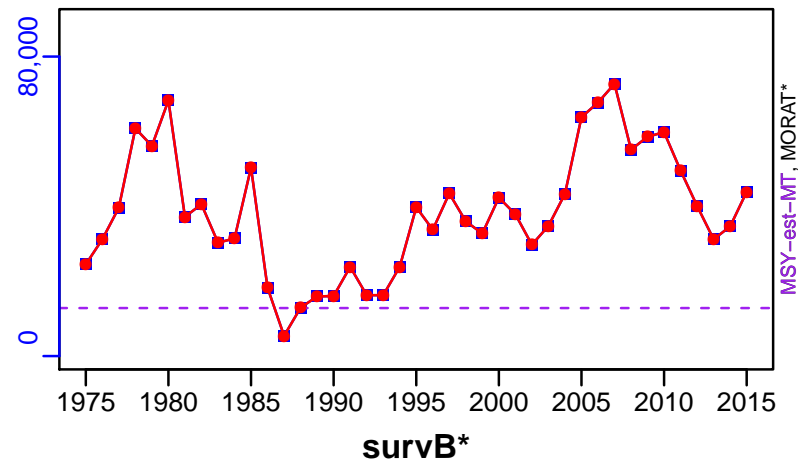


R-E00 (1975–2015–OSIO)



# Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]

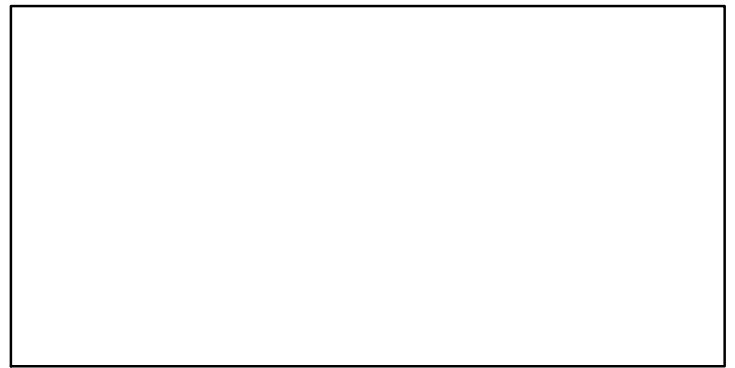
TC-MT, TL-MT, RecC\* (1975-2015-OSIO)



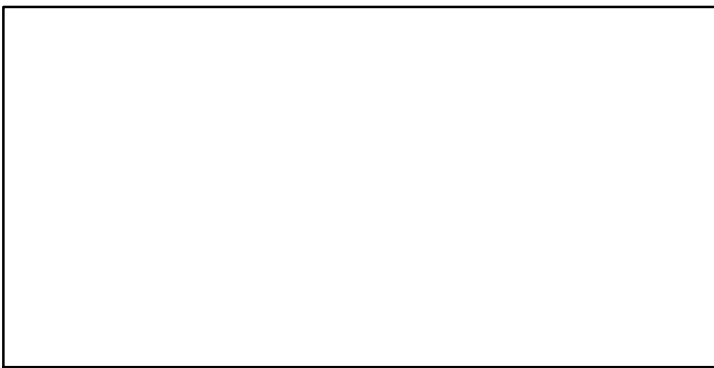
TAC\*, Cpair\*, Cadv\*



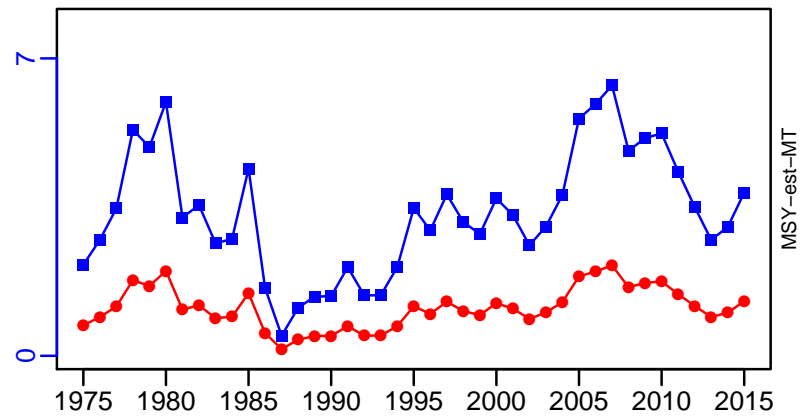
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1975-2015-OSIO)



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

## Anchovy Western Ionian Sea [ANCHMEDGSA19]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA19-2006-2012-OSIO
<b>Area</b>	Western Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	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	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	817		
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\*



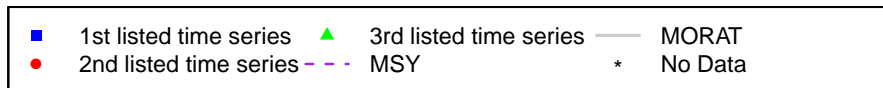
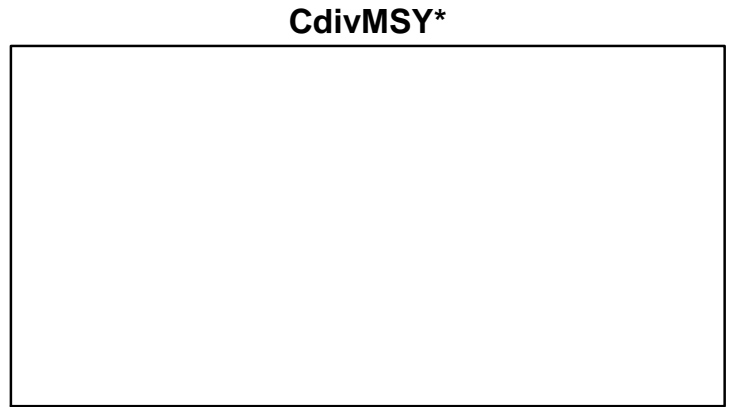
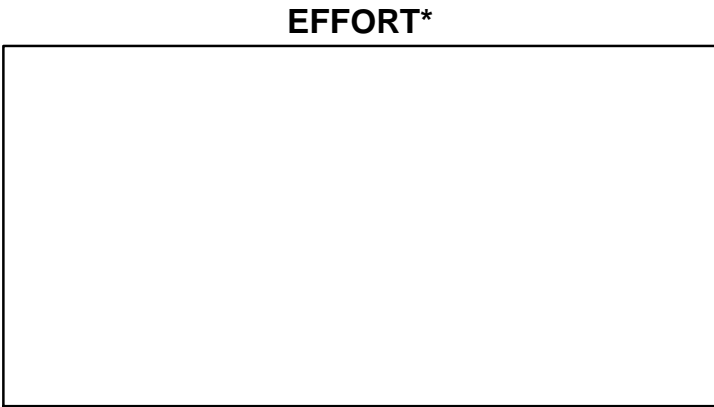
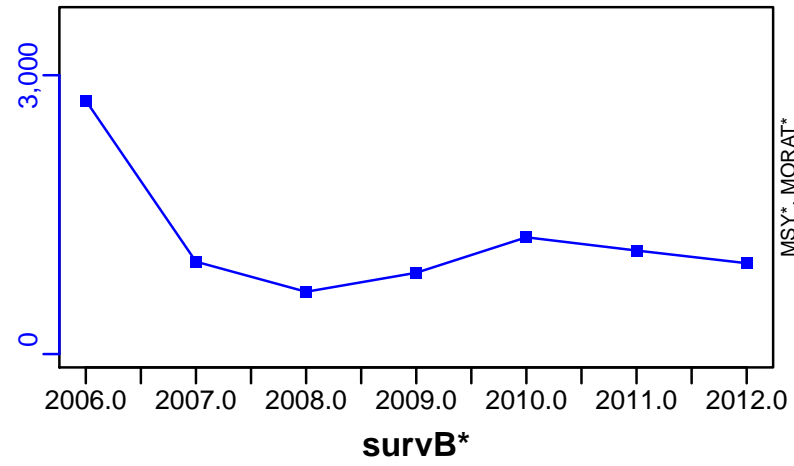
Recruits\*



# Anchovy Western Ionian Sea [ANCHMEDGSA19]

TC-MT, TL\*, RecC\* (2006–2012–OSIO)

TAC\*, Cpair\*, Cadv\*



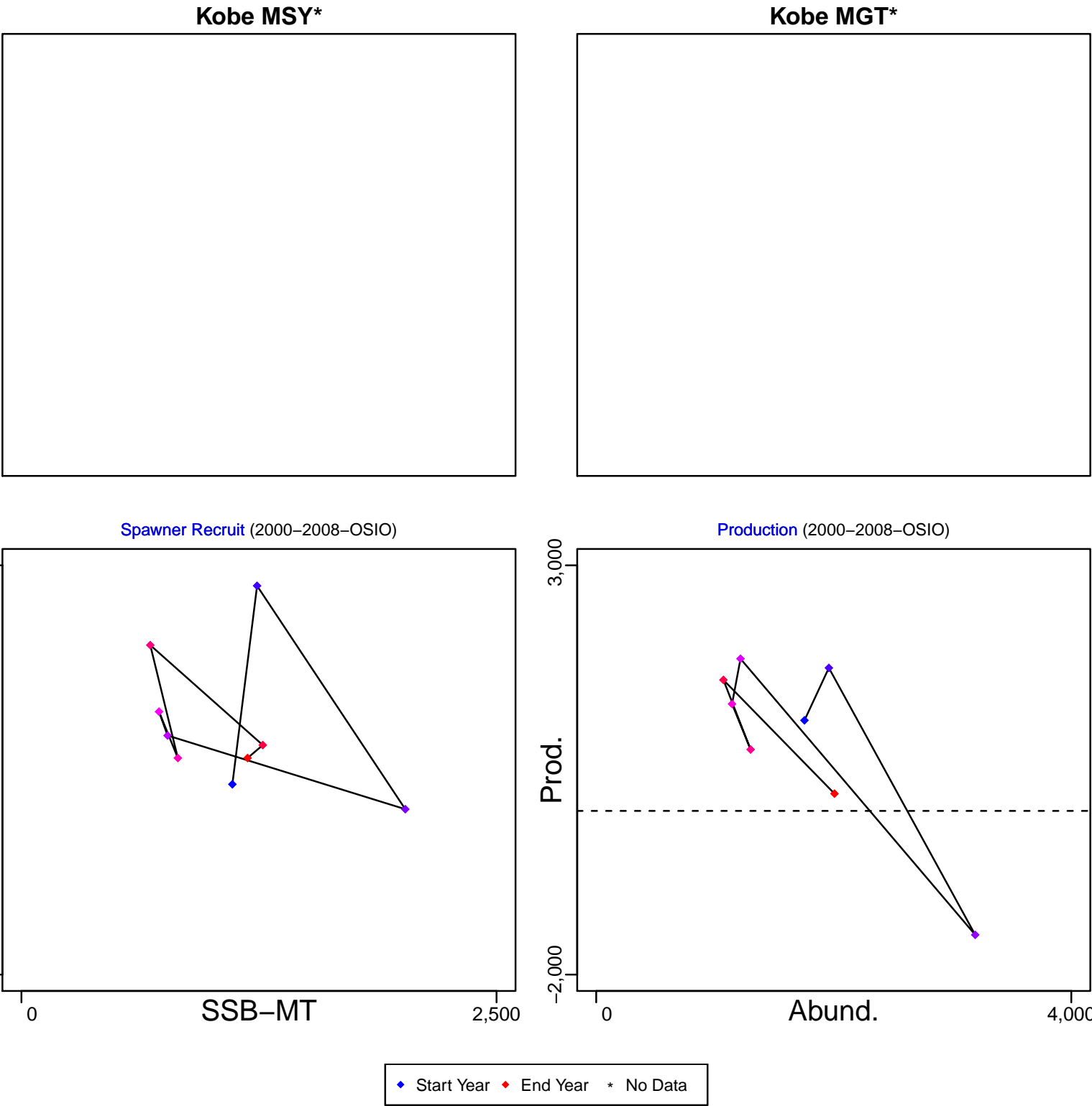
## Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA20-2000-2008-OSIO
<b>Area</b>	Eastern Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	1190	-	-
TN	-	-	-	-	-
R	R-E00	2008	$6.35 \times 10^8$	-	-
F	F-1/yr	2008	0.814	-	-
ER	ER-calc-ratio	2008	0.697	-	-
TC	TC-MT	2008	1310		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



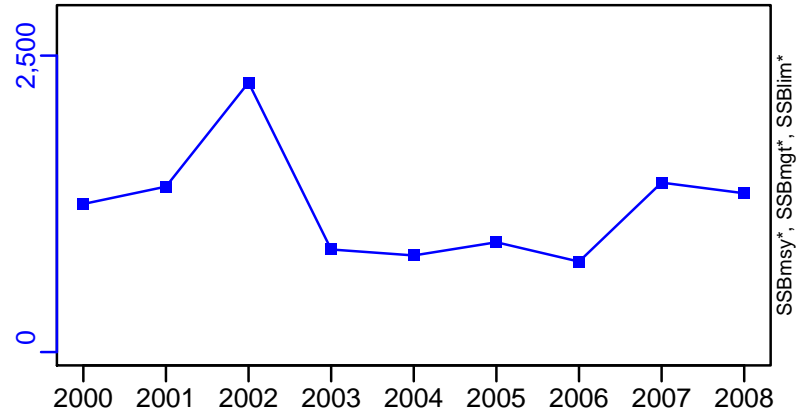


# Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

TB\*



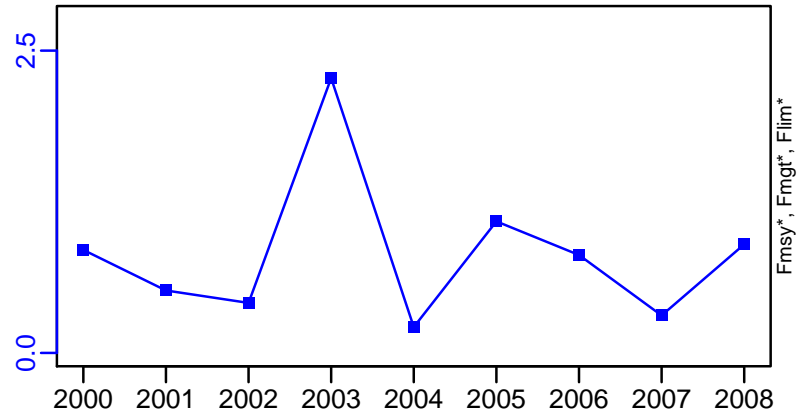
SSB-MT (2000–2008–OSIO)



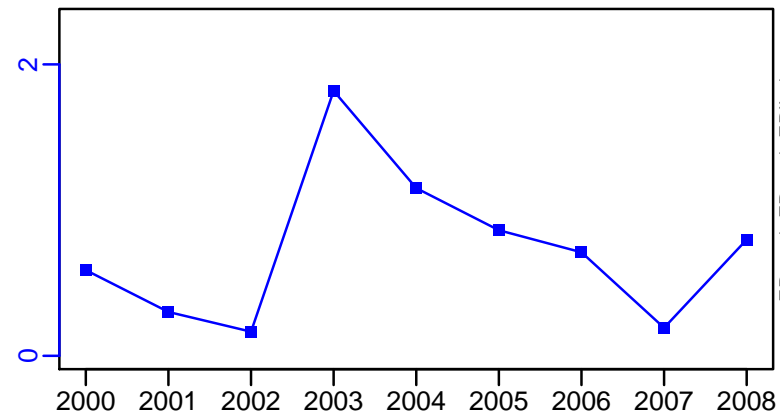
TN \*



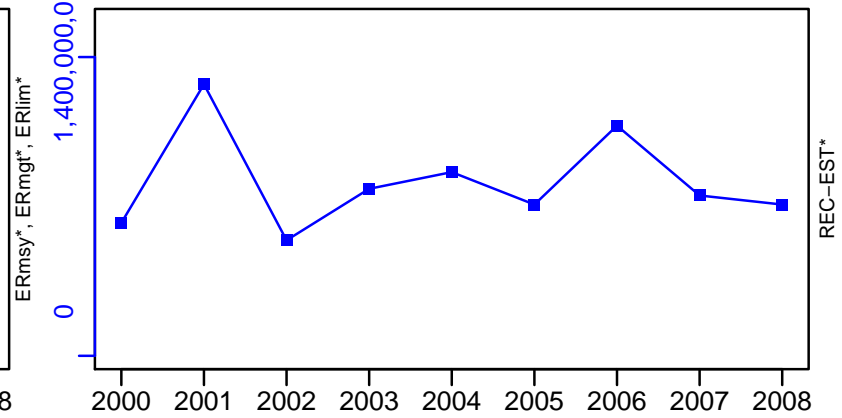
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

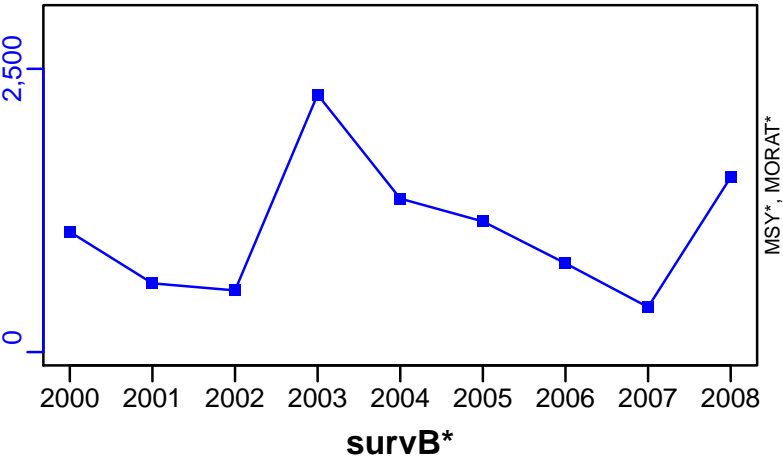


R-E00 (2000–2008–OSIO)



Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

TC-MT, TL\*, RecC\* (2000–2008–OSIO)



TAC\*, Cpair\*, Cadv\*



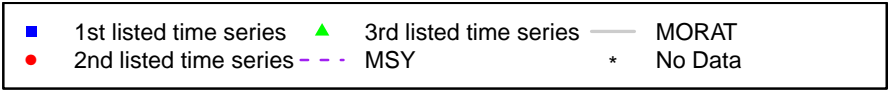
CPUE\*



EFFORT\*



CdivMSY\*



## Anchovy Aegean Sea [ANCHMEDGSA22]

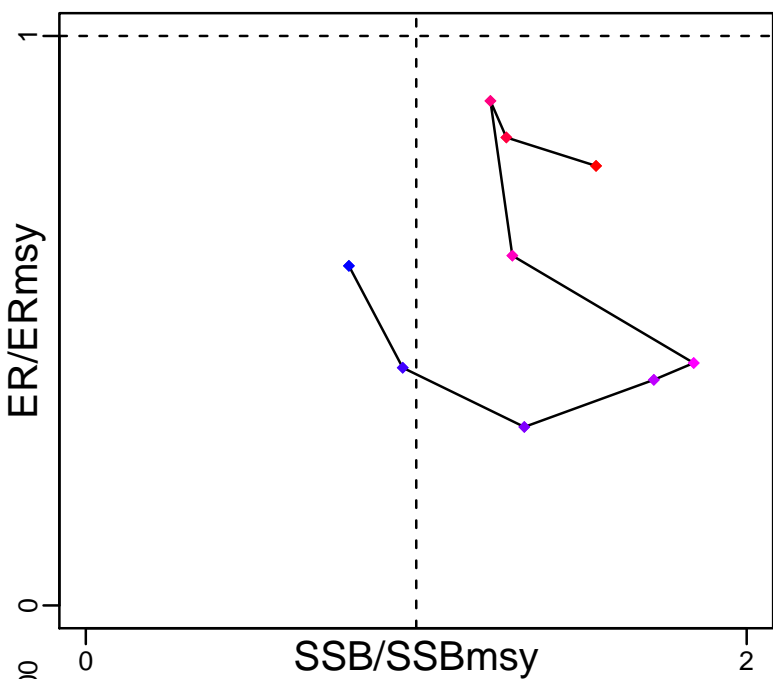
Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA22-2000-2008-OSIO
<b>Area</b>	Aegean Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2008	16,579
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2008	0.794
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2008	20,557
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

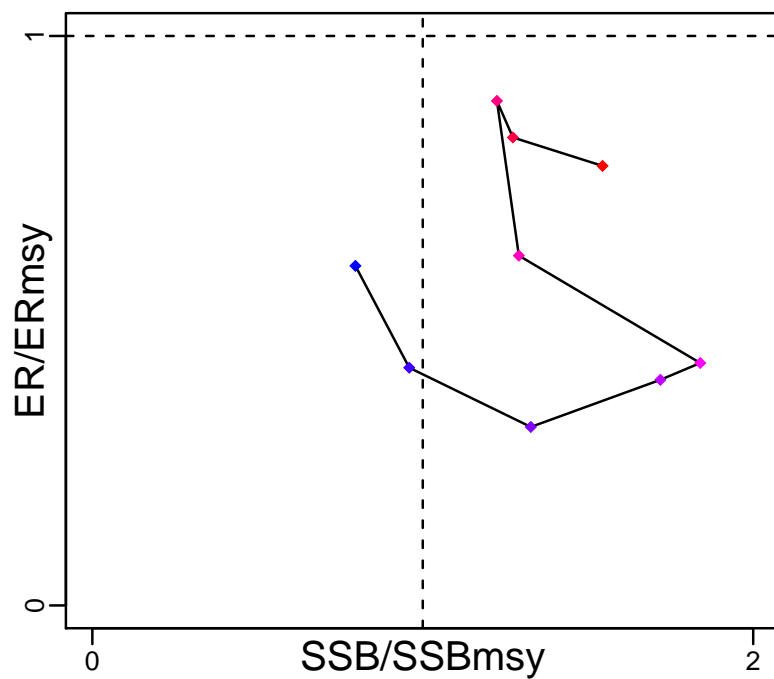
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	25,600	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$3.84 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2008	0.576	-	-
<b>ER</b>	ER-calc-ratio	2008	0.613	-	-
<b>TC</b>	TC-MT	2008	24,500		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2008	1.544		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2008	0.772		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Anchovy Aegean Sea [ANCHMEDGSA22]

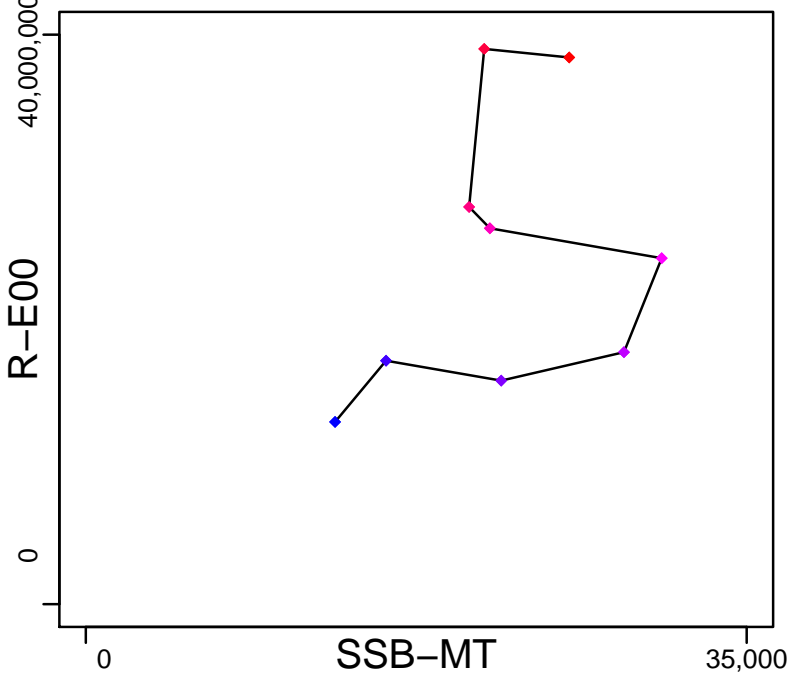
Kobe MSYpref (2000–2008–OSIO)



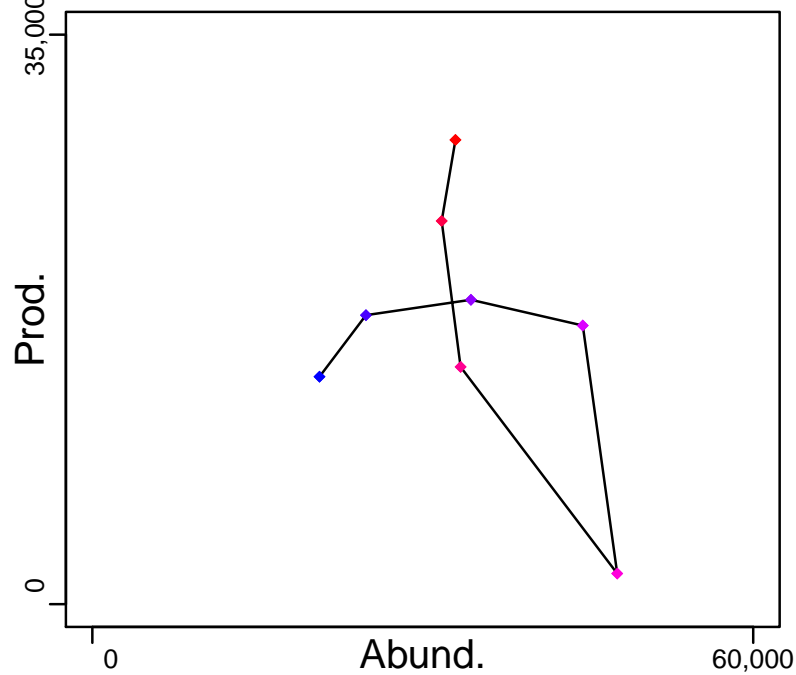
Kobe MGTpref (2000–2008–OSIO)



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)



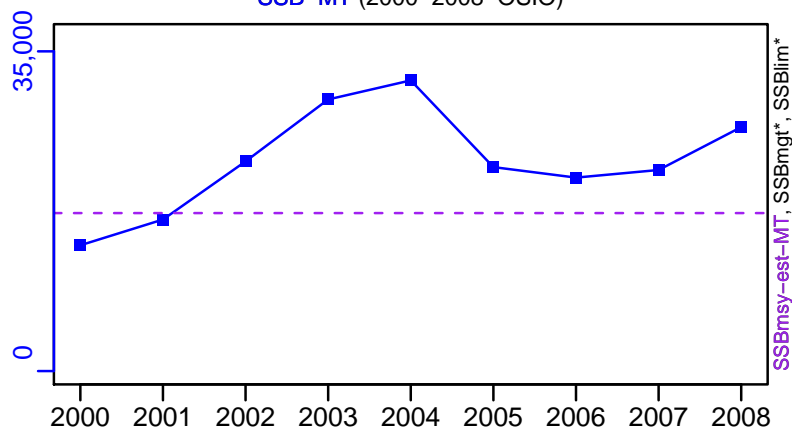
◆ Start Year ◆ End Year \* No Data

# Anchovy Aegean Sea [ANCHMEDGSA22]

TB\*



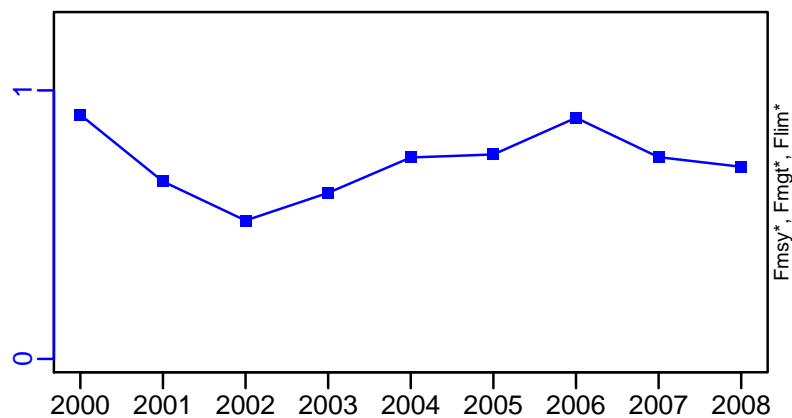
SSB-MT (2000–2008–OSIO)



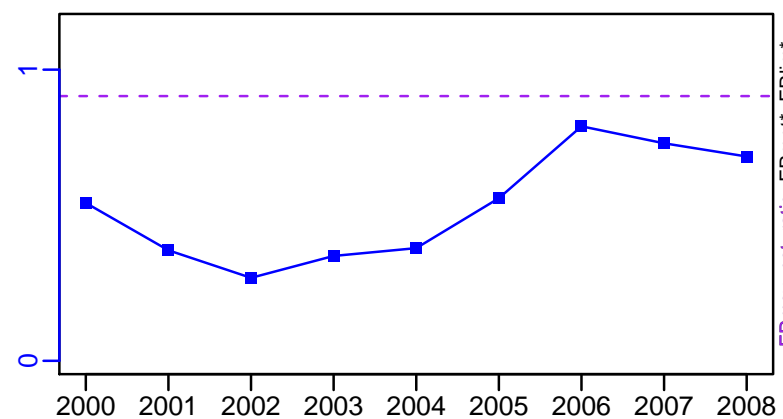
TN \*



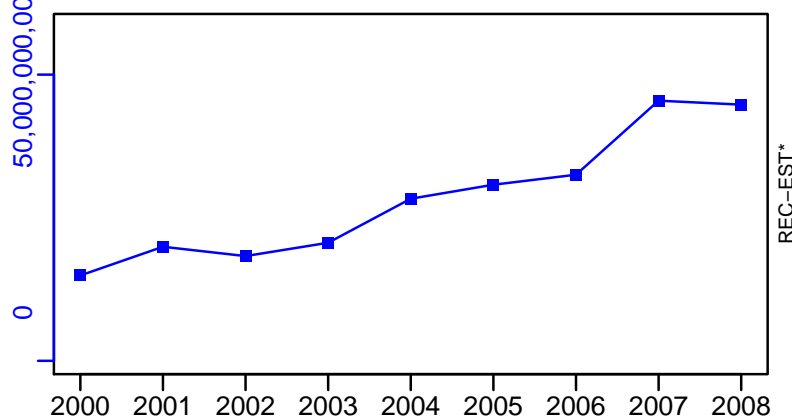
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

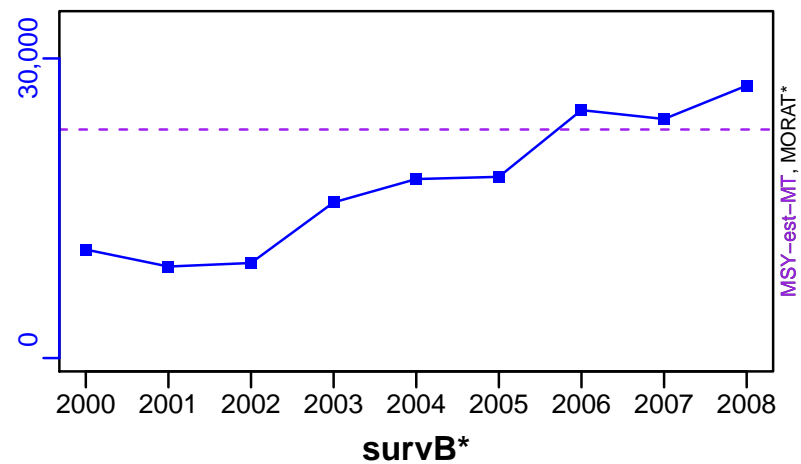


R-E00 (2000–2008–OSIO)



# Anchovy Aegean Sea [ANCHMEDGSA22]

TC-MT, TL\*, RecC\* (2000–2008–OSIO)



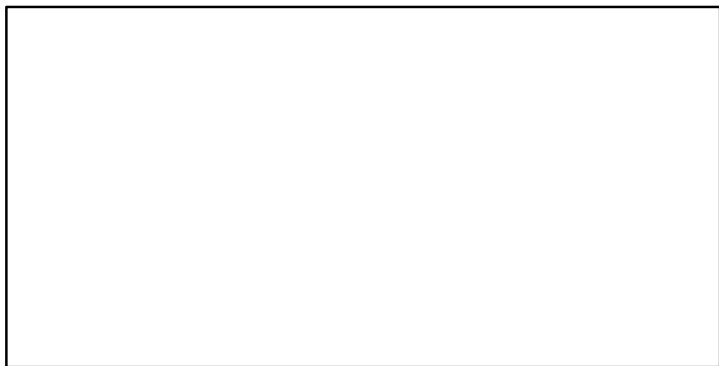
TAC\*, Cpair\*, Cadv\*



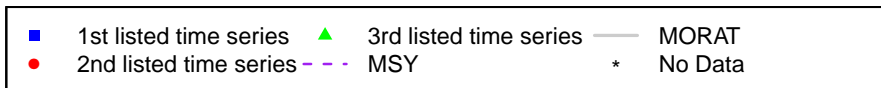
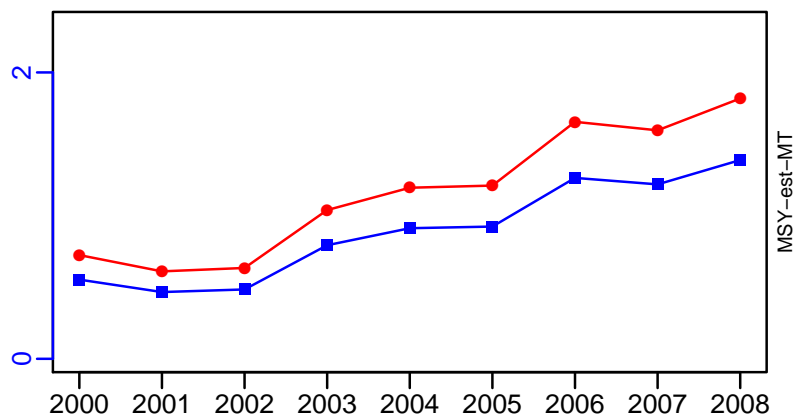
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2000–2008–OSIO)



## Anchovy Black Sea [ANCHMEDGSA29]

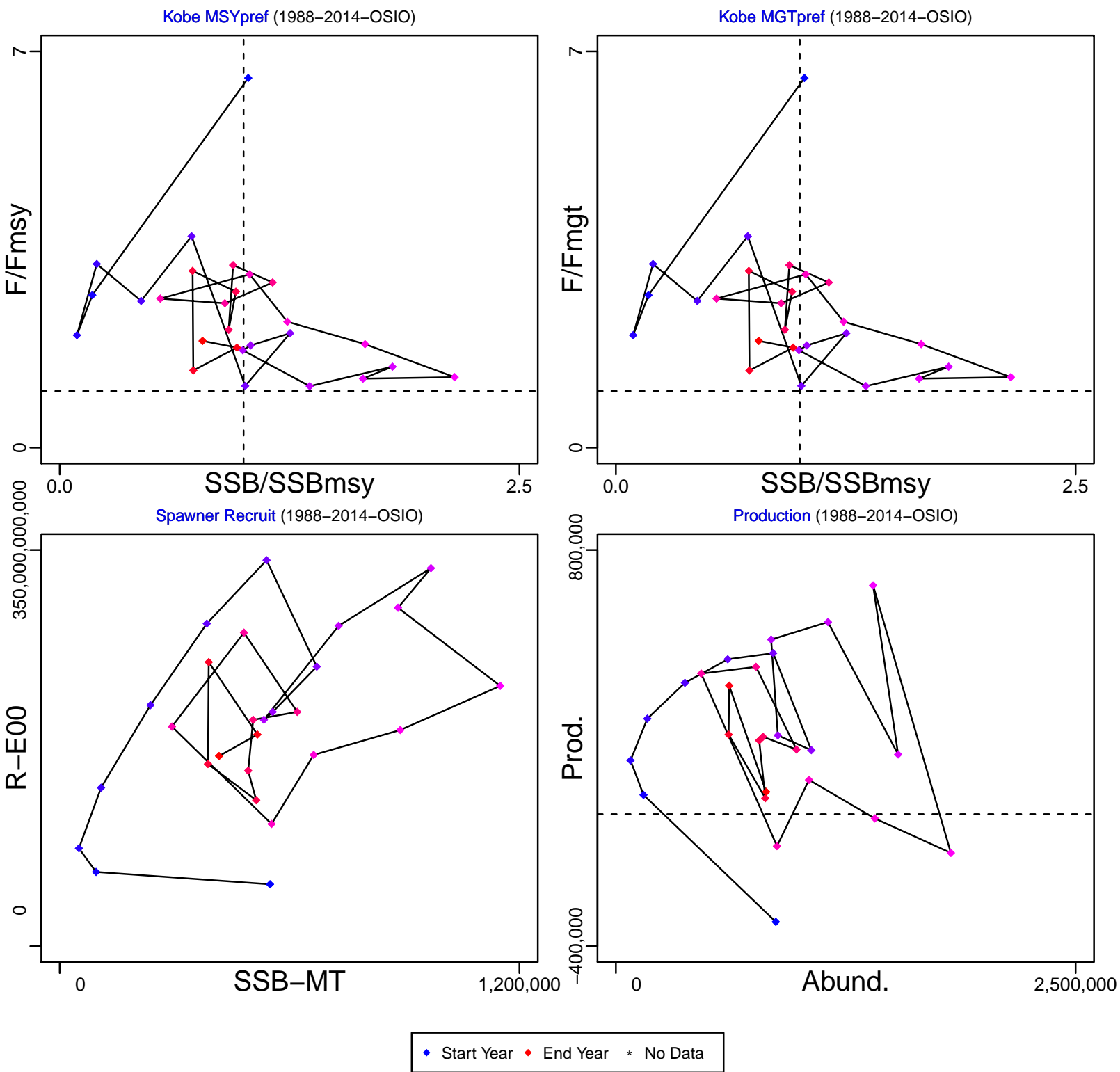
Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA29-1988-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	535,467
<b>Fmsy</b>	Fmsy-1/yr	2014	0.49
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.328
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.49
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	278,401
<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>	SSB-MT	2014	416,000	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.68 \times 10^{11}$	-	-
<b>F</b>	F-1/yr	2014	0.924	-	-
<b>ER</b>	ER-calc-ratio	2014	0.238	-	-
<b>TC</b>	TC-MT	2014	157,000		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.777		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	1.886		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.726		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.886		
<b>ER/ERmgt</b>	-	-	-		



# Anchovy Black Sea [ANCHMEDGSA29]

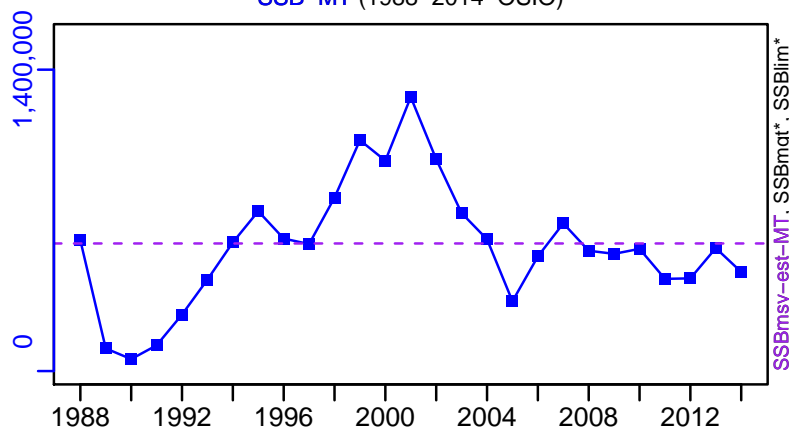


# Anchovy Black Sea [ANCHMEDGSA29]

TB\*



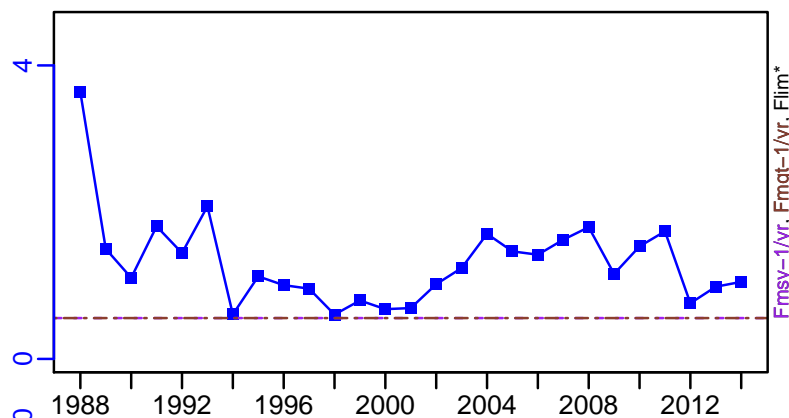
SSB-MT (1988–2014–OSIO)



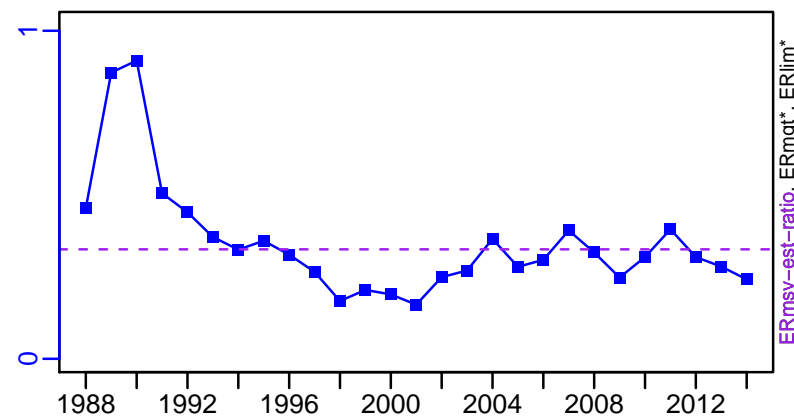
TN \*



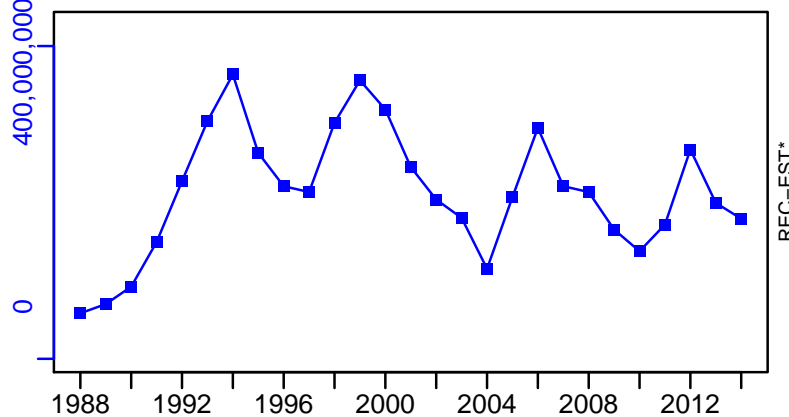
F-1/yr (1988–2014–OSIO)



ER-calc-ratio (1988–2014–OSIO)

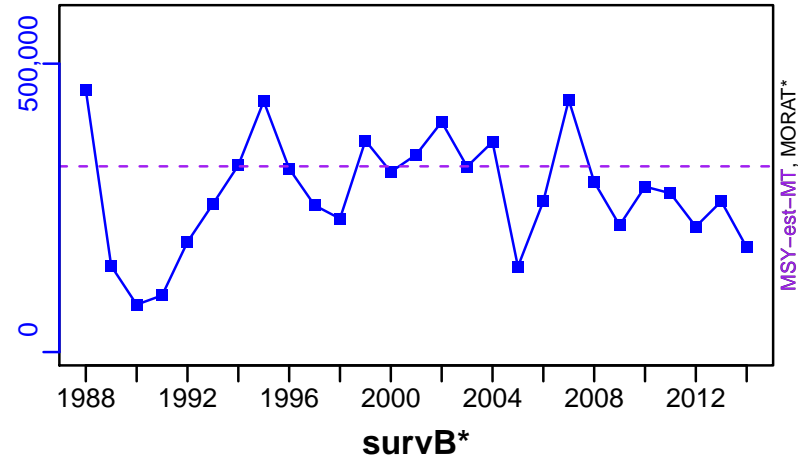


R-E00 (1988–2014–OSIO)



# Anchovy Black Sea [ANCHMEDGSA29]

TC-MT, TL\*, RecC\* (1988–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



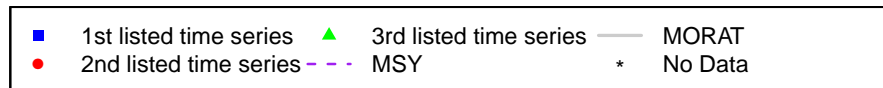
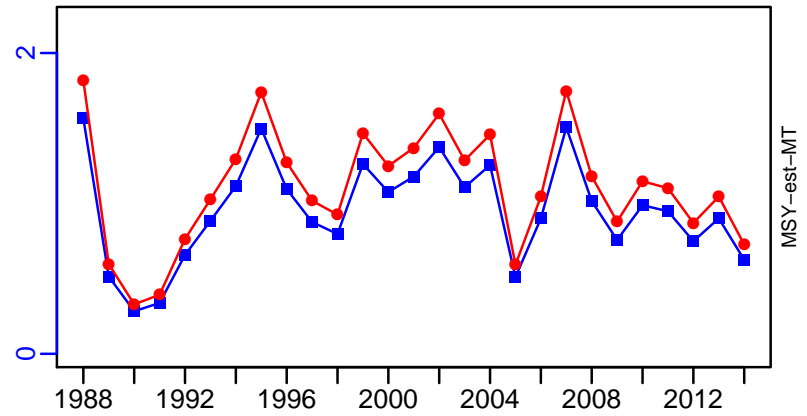
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1988–2014–OSIO)



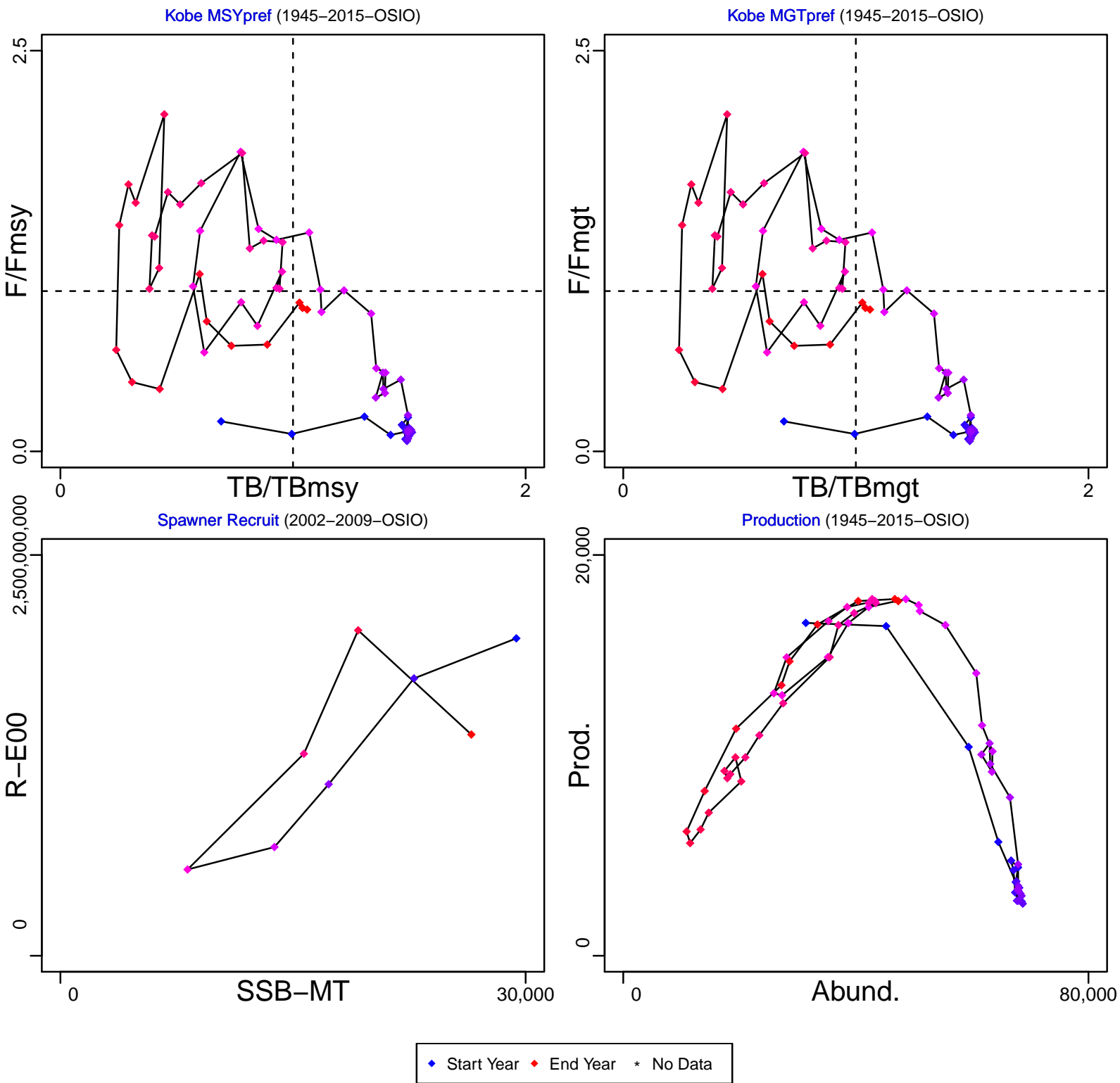
## Anchovy Northern Spain [ANCHMEDGSA6]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA6-1945-2015-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015, 2009

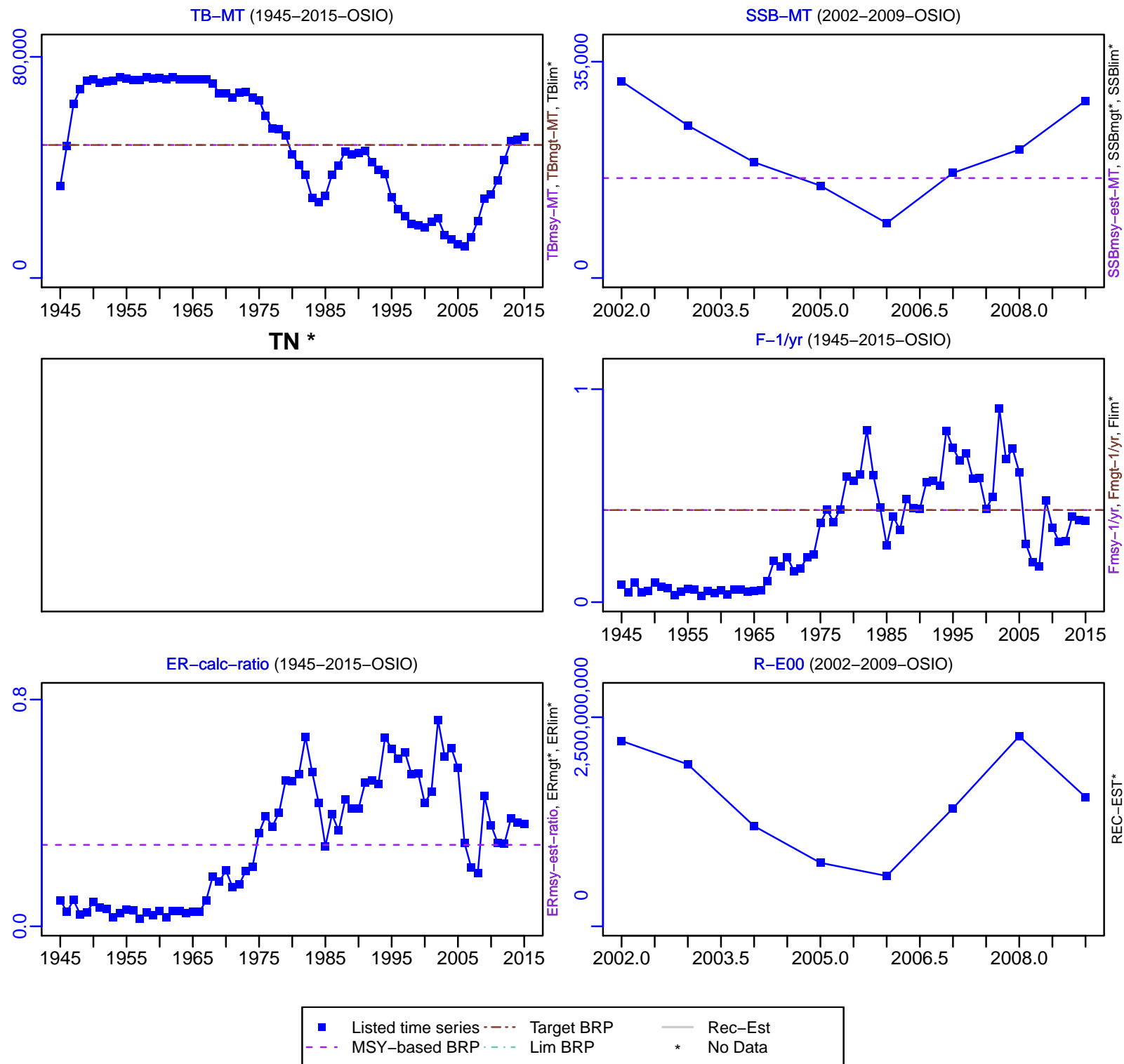
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2015	45,440
<b>SSBmsy</b>	SSBmsy-est-MT	2009	14,934
<b>Fmsy</b>	Fmsy-1/yr	2015	0.393
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.278
<b>TBmgt</b>	TBmgt-MT	2015	45,440
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.393
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	12,650
<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	48,200	-	-
<b>SSB</b>	SSB-MT	2009	26,500	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	$1.38 \times 10^9$	-	-
<b>F</b>	F-1/yr	2015	0.348	-	-
<b>ER</b>	ER-calc-ratio	2015	0.351	-	-
<b>TC</b>	TC-MT	2009	9810		
<b>TL</b>	TL-MT	2015	16,900		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2015	1.061		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2009	1.775		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.885		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	1.259		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2015	1.061		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.885		
<b>ER/ERmgt</b>	-	-	-		

# Anchovy Northern Spain [ANCHMEDGSA6]

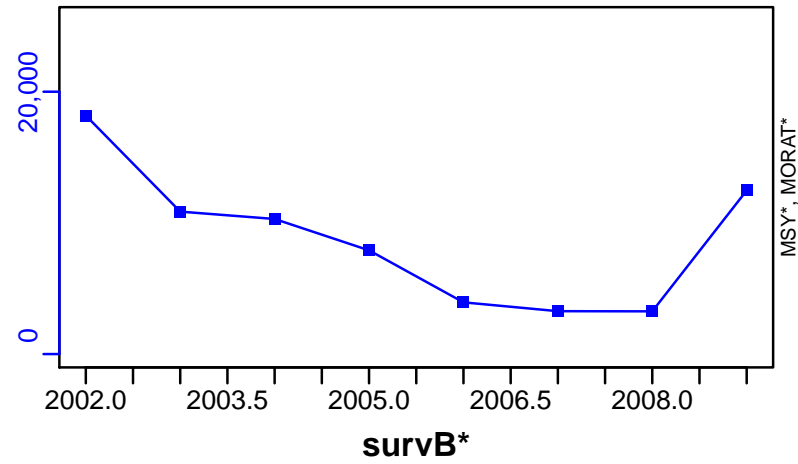


# Anchovy Northern Spain [ANCHMEDGSA6]



# Anchovy Northern Spain [ANCHMEDGSA6]

TC-MT, TL\*, RecC\* (2002–2009–OSIO)



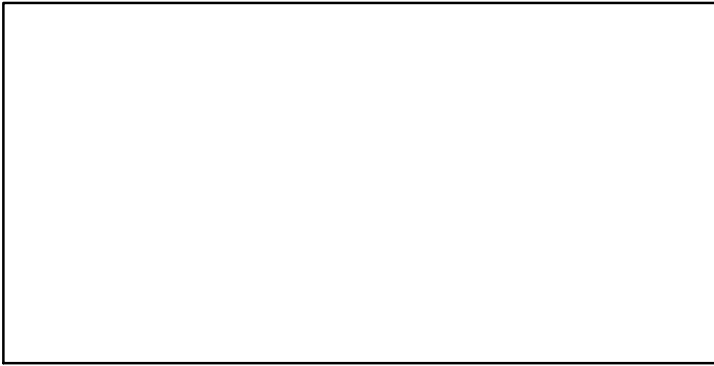
TAC\*, Cpair\*, Cadv\*



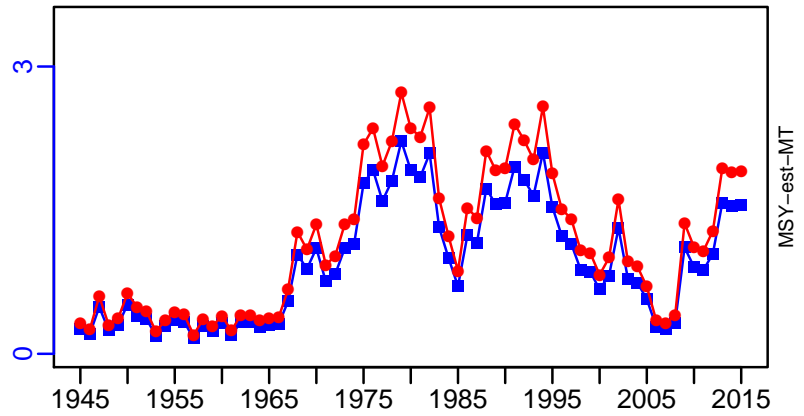
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1945–2015–OSIO)



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

## Anchovy Gulf of Lions [ANCHMEDGSA7]

Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	IFREMER-ANCHMEDGSA7-1993-2012-BANOBI
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	French Research Institute for Exploitation of the Sea
<b>Asmts in RAM</b>	2012

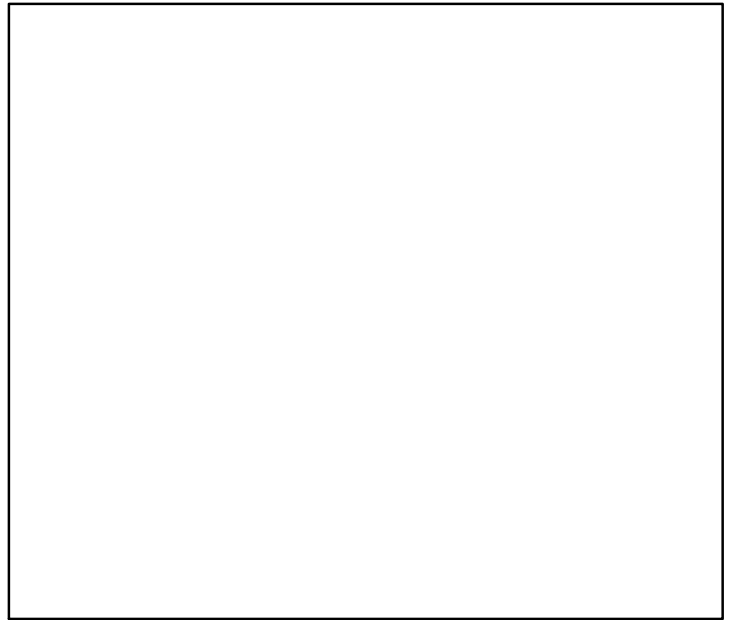
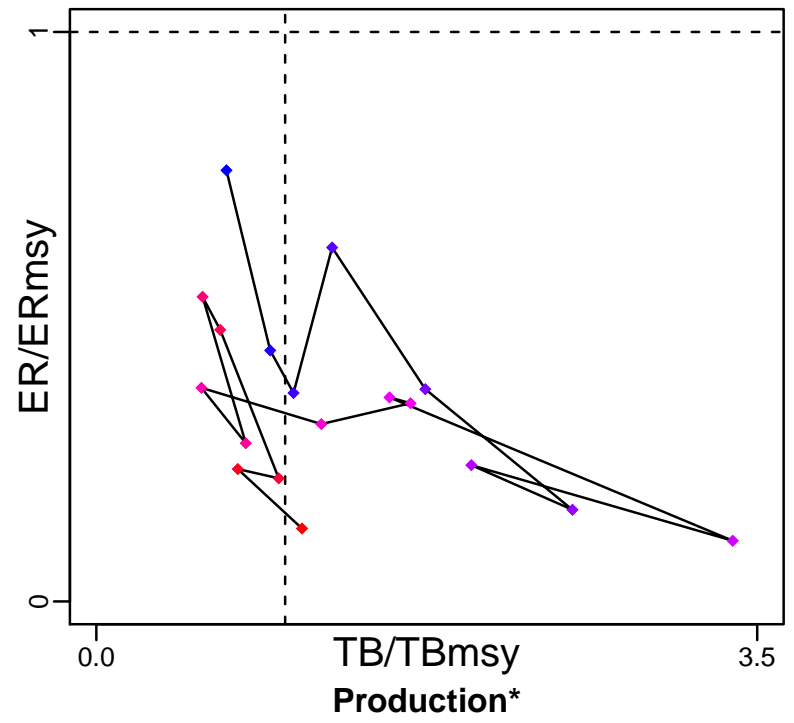
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	33,232
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.382
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	12,690
<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	2012	32,800	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2012	0.049	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2012	1770		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.987		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.128		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		



◆ Start Year    ◆ End Year    \* No Data

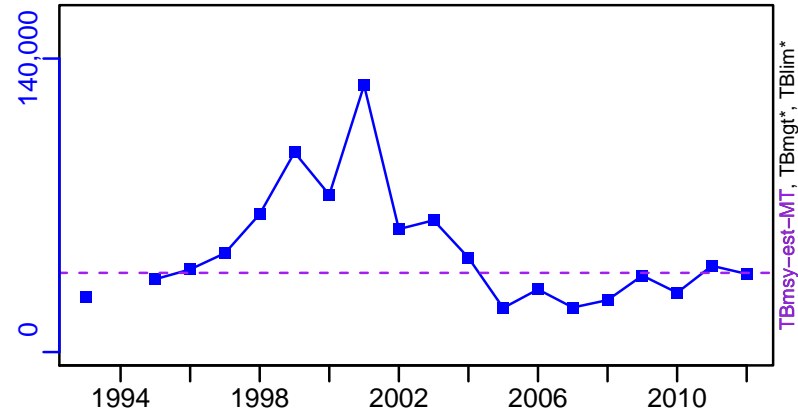
Kobe MGTpref (1993–2012–BANOB)



# Anchovy Gulf of Lions [ANCHMEDGSA7]

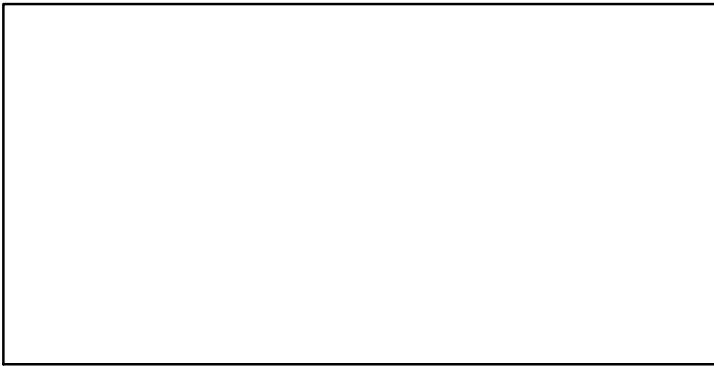
TB-MT (1993-2012-BANOBI)

SSB\*



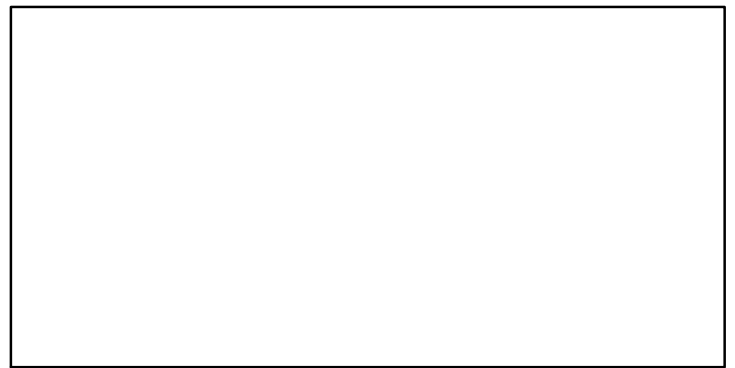
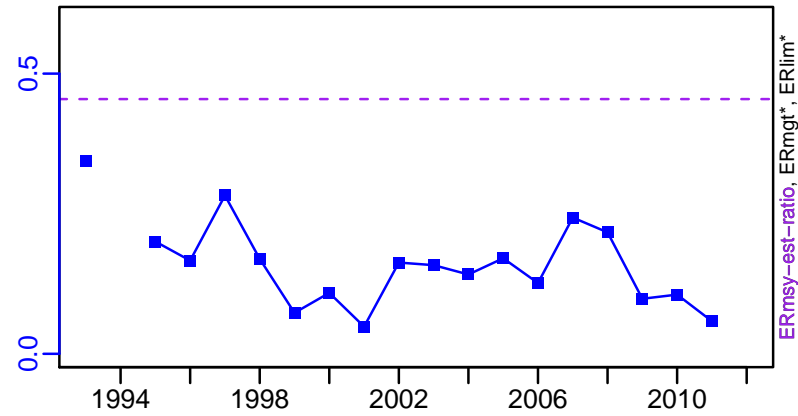
TN \*

F\*



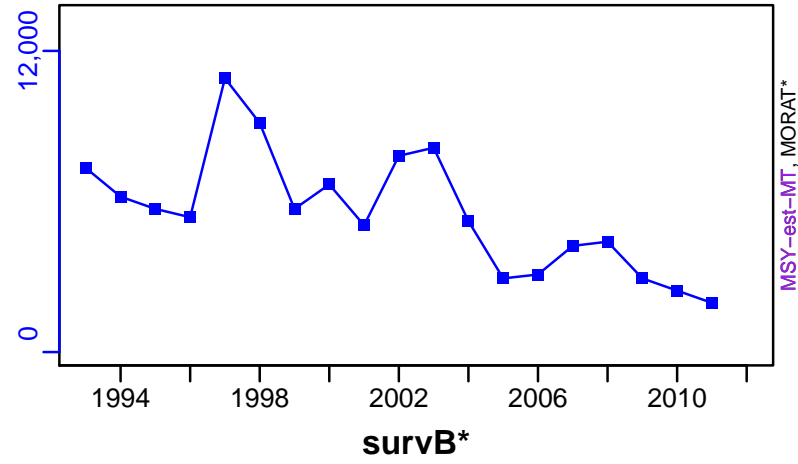
ER-calc-ratio (1993-2012-BANOBI)

Recruits\*



# Anchovy Gulf of Lions [ANCHMEDGSA7]

TL-MT, TC\*, RecC\* (1993-2012-BANOBI)



TAC\*, Cpair\*, Cadv\*



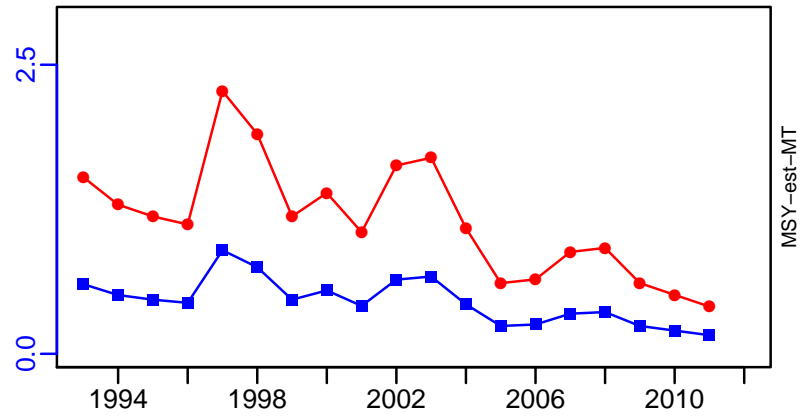
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1993-2012-BANOBI)



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

## Anchovy Ligurian and North Tyrrhenian Sea [ANCHMEDGSA9]

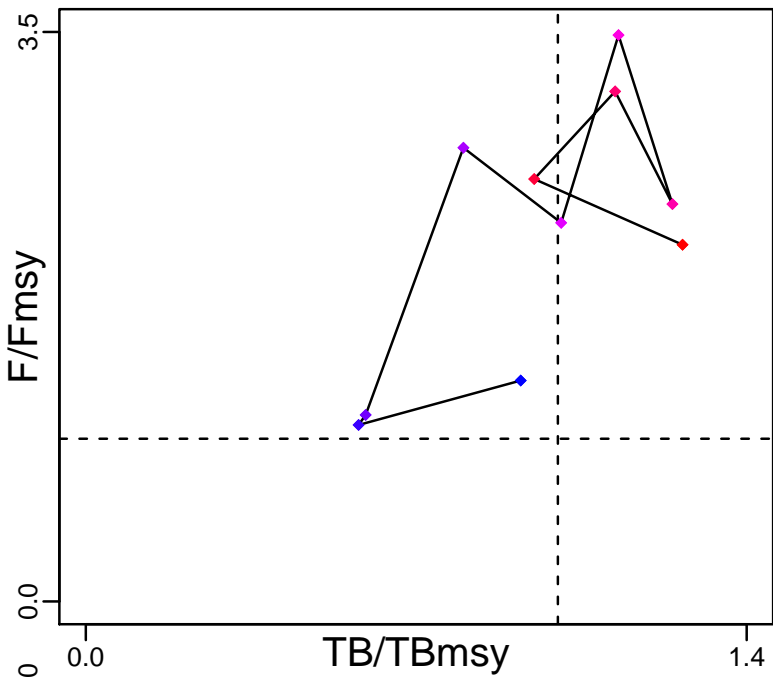
Metadata	
<b>Scientific Name</b>	Engraulis encrasicolus
<b>Current Assess ID</b>	STECF-ANCHMEDGSA9-2006-2015-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	14,002
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.52
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.294
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.52
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	4110
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

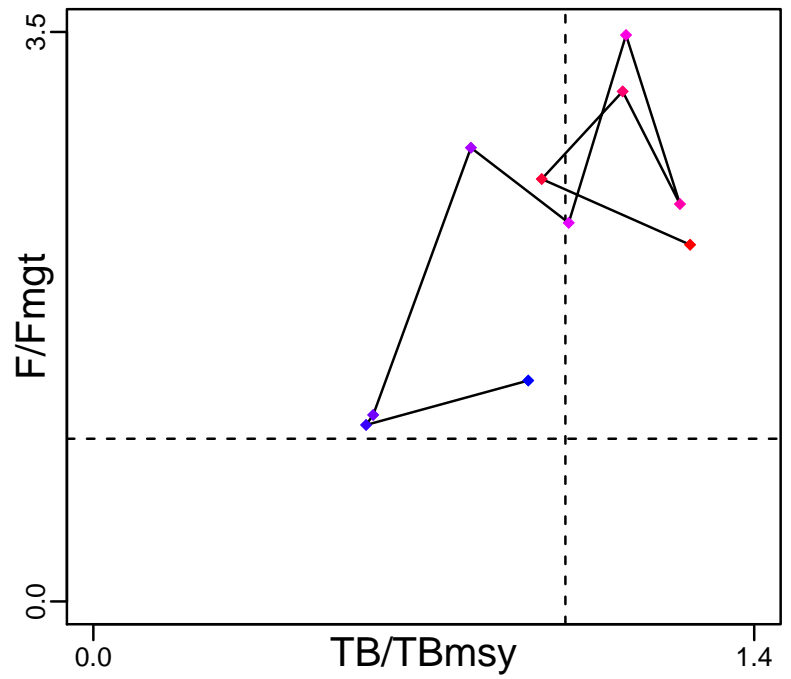
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	17,700	-	-
<b>SSB</b>	SSB-MT	2015	11,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$1.66 \times 10^9$	-	-
<b>F</b>	F-1/yr	2015	1.14	-	-
<b>ER</b>	ER-calc-ratio	2015	0.22	-	-
<b>TC</b>	TC-MT	2015	3890		
<b>TL</b>	TL-MT	2015	3960		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	1.264		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	2.192		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.749		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.192		
<b>ER/ERmgt</b>	-	-	-		

# Anchovy Ligurian and North Tyrrhenian Sea [ANCHMEDGSA9]

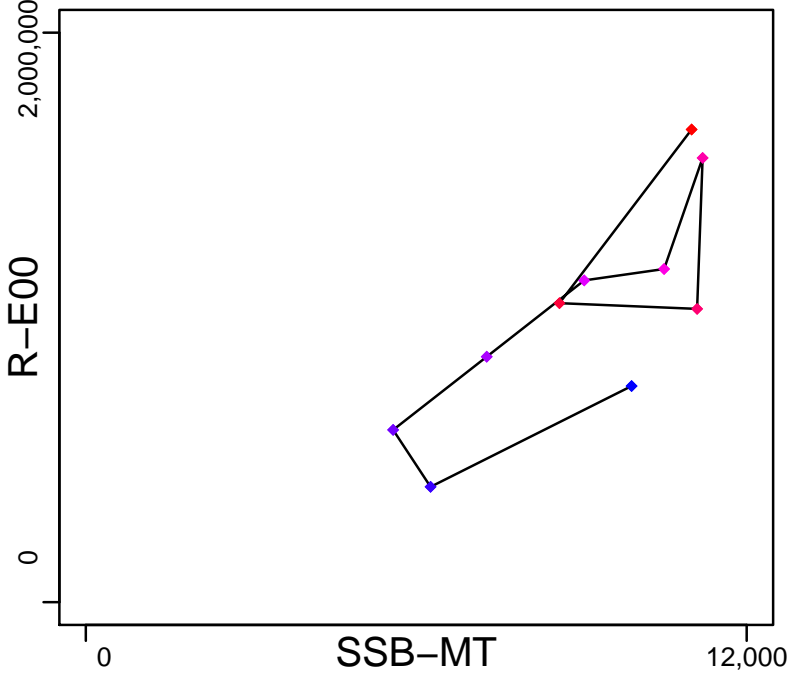
Kobe MSYpref (2006–2015–OSIO)



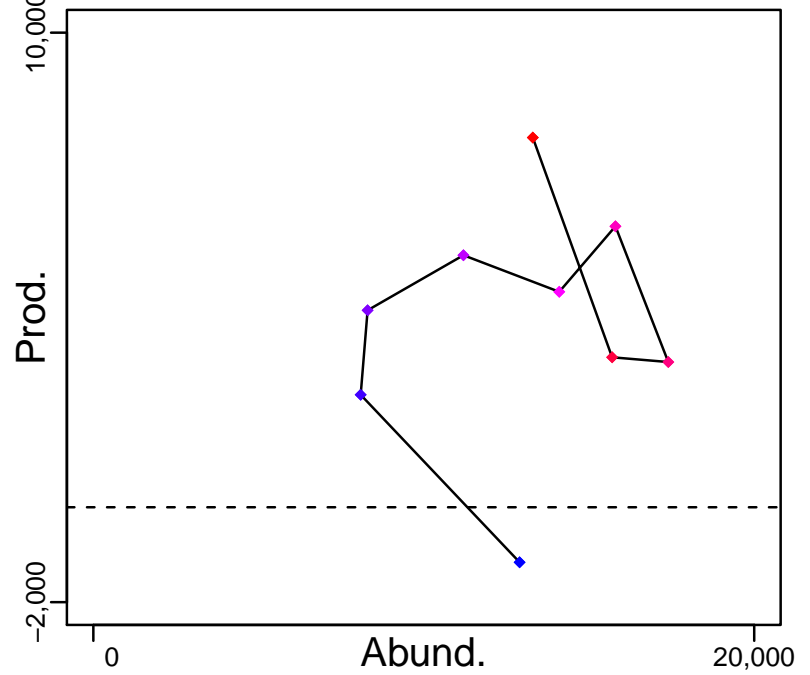
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)

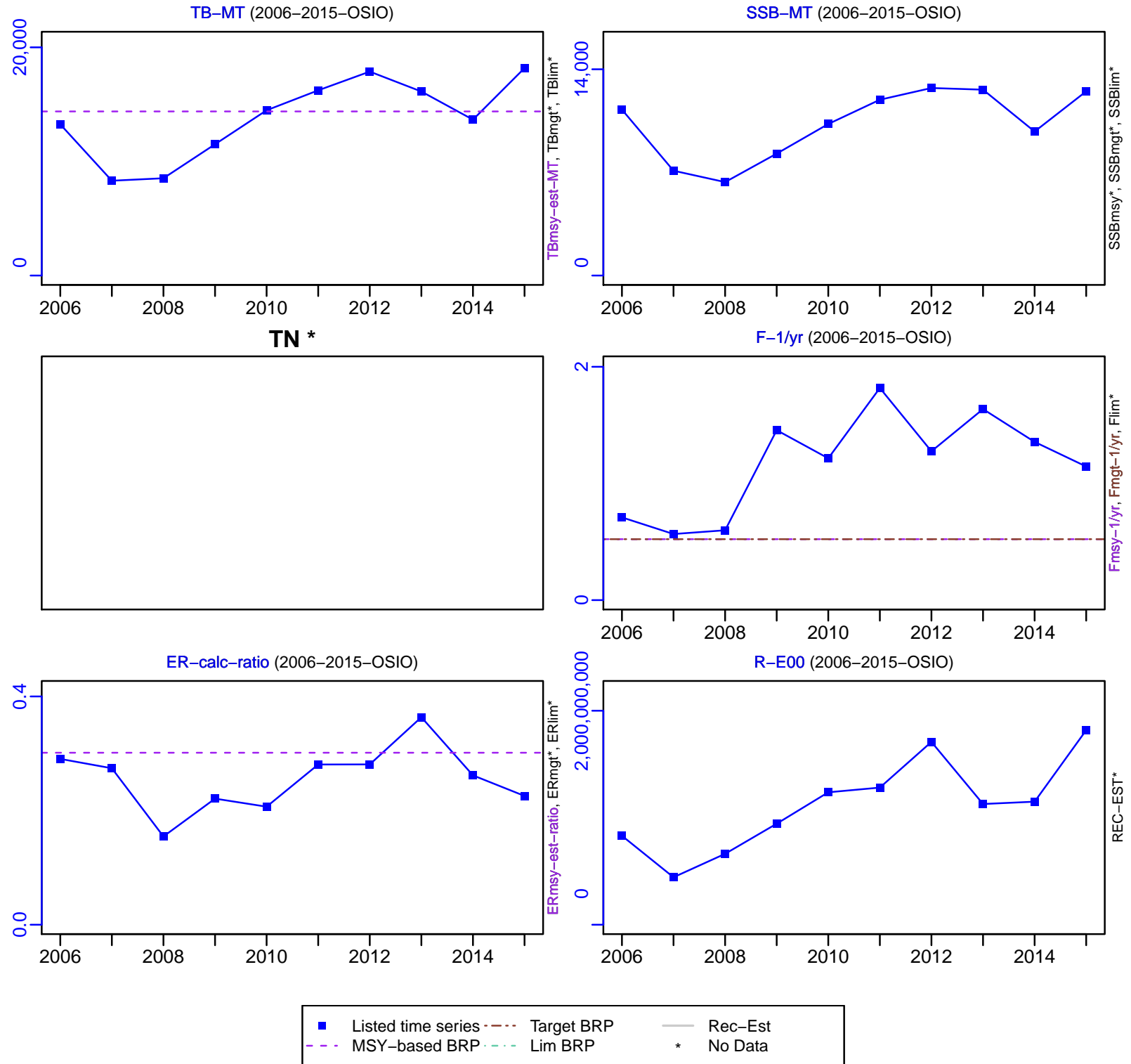


Production (2006–2015–OSIO)



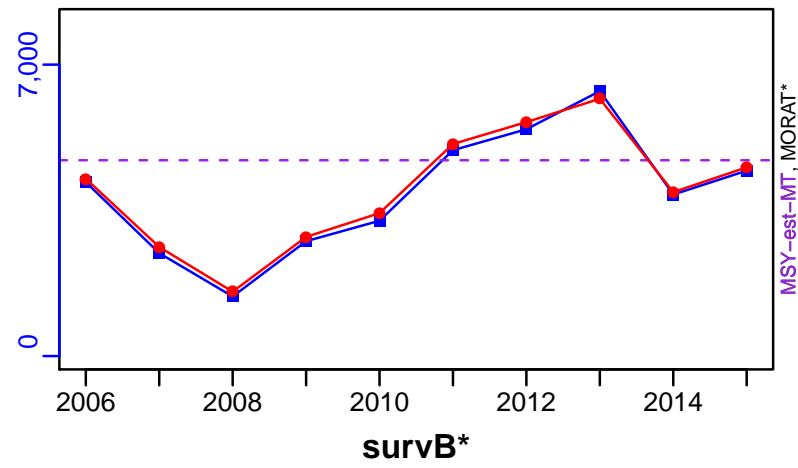
◆ Start Year ◆ End Year \* No Data

# Anchovy Ligurian and North Tyrrhenian Sea [ANCHMEDGSA9]



# Anchovy Ligurian and North Tyrrhenian Sea [ANCHMEDGSA9]

TC-MT, TL-MT, RecC\* (2006–2015–OSIO)



TAC\*, Cpair\*, Cadv\*



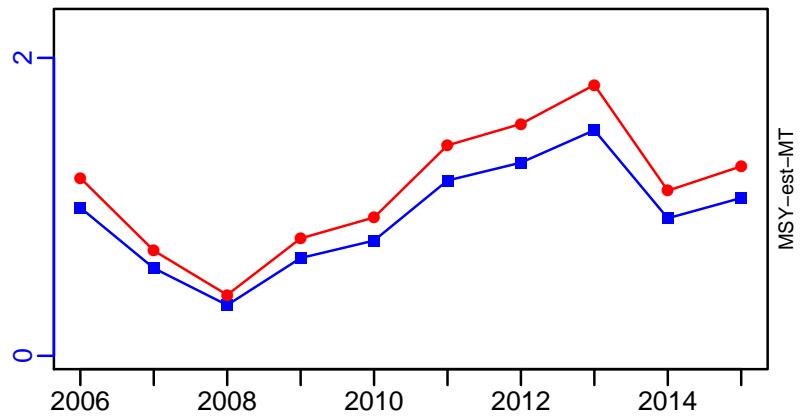
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2015–OSIO)



**Black bellied angler Malta Island and South of Sicily (GSA 15, 16)**  
**[ANGLMEDGSA15-16]**

Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	STECF-ANGLMEDGSA15-16-2006-2011-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-extr-1/yr	2010	0.165
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.16
<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>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	536	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	1,100,000	-	-
<b>F</b>	F-1/yr	2011	0.351	-	-
<b>ER</b>	ER-calc-ratio	2011	0.123	-	-
<b>TC</b>	TC-MT	2011	279		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2010	2.07		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	2.194		
<b>ER/ERmgt</b>	-	-	-		



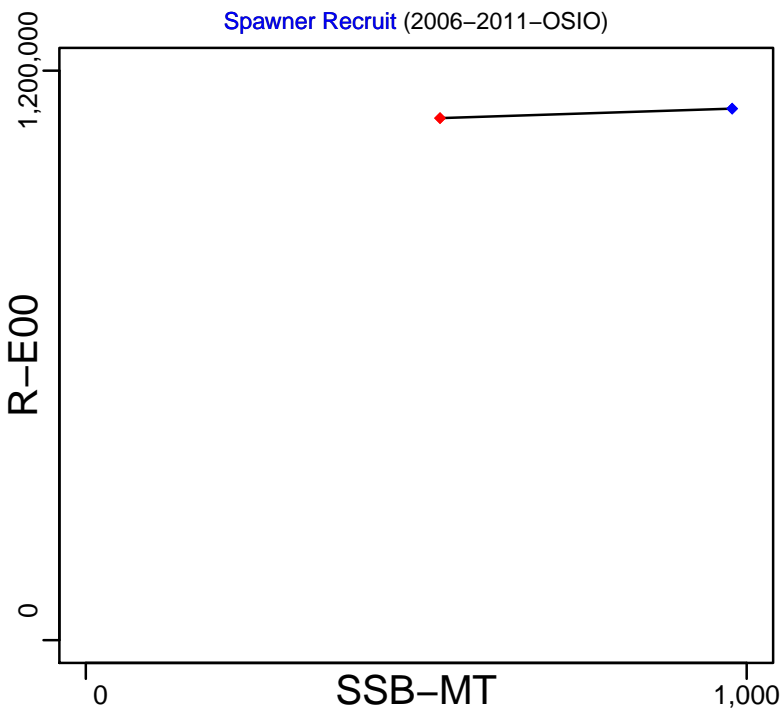
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit (2006-2011-OSIO)**



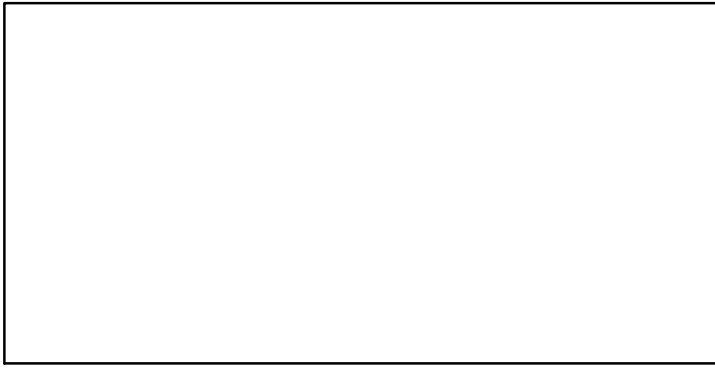
**Production\***



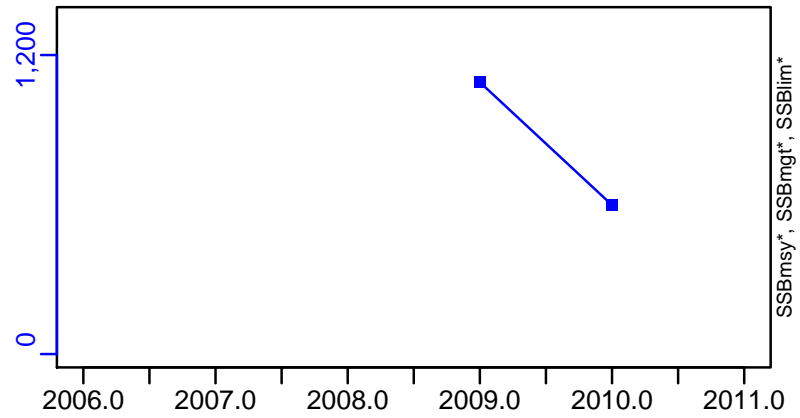
◆ Start Year ◆ End Year \* No Data

Black bellied angler Malta Island and South of Sicily (GSA 15, 16) [ANGLMEDGSA15-16]

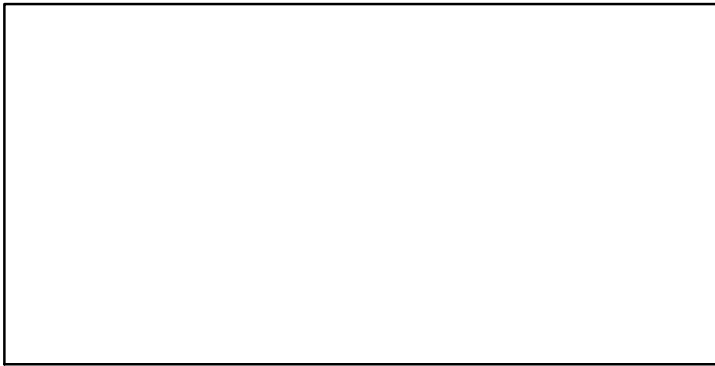
TB\*



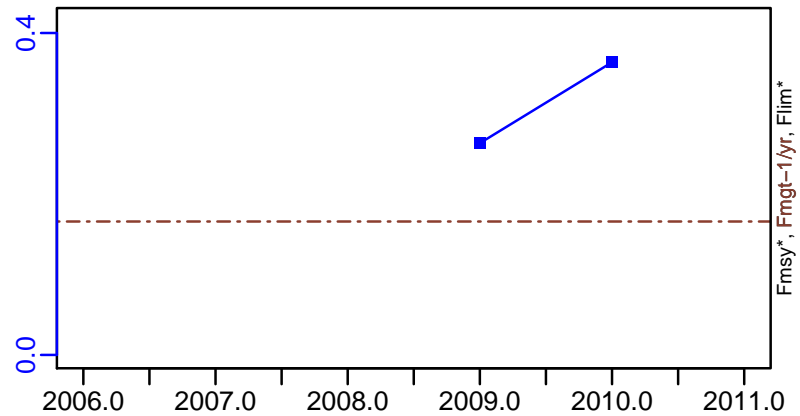
SSB-MT (2006-2011-OSIO)



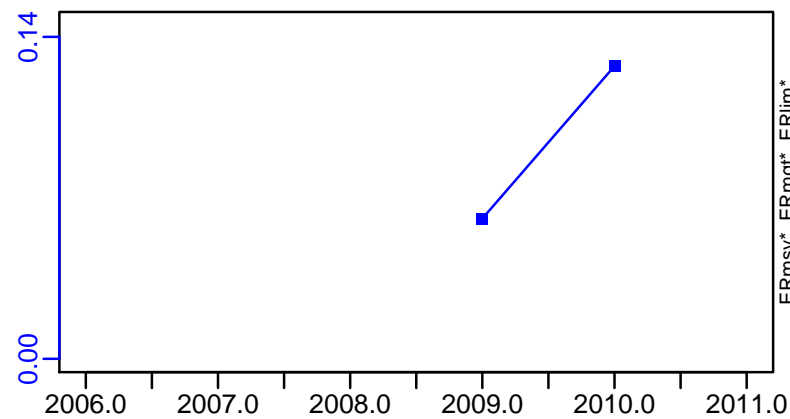
TN \*



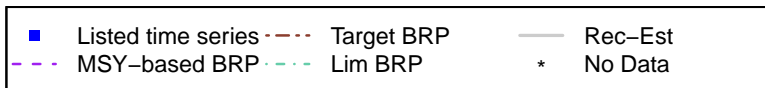
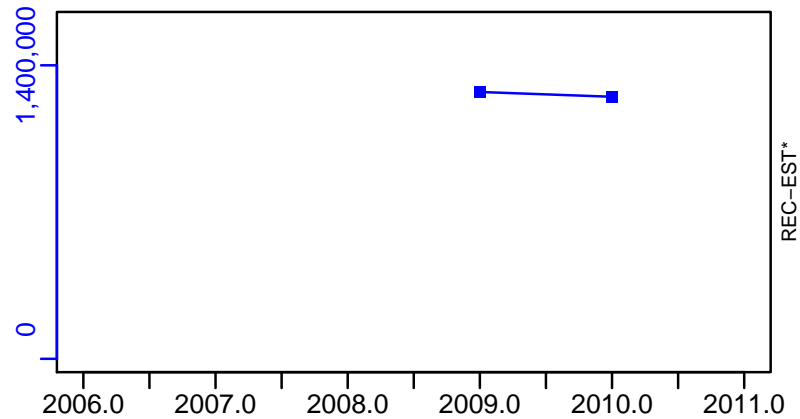
F-1/yr (2006-2011-OSIO)



ER-calc-ratio (2006-2011-OSIO)



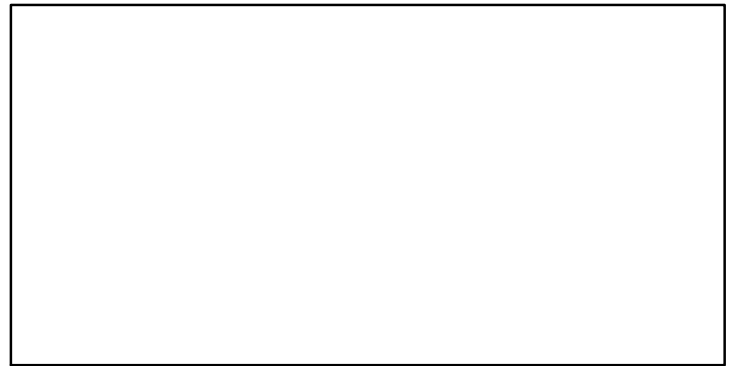
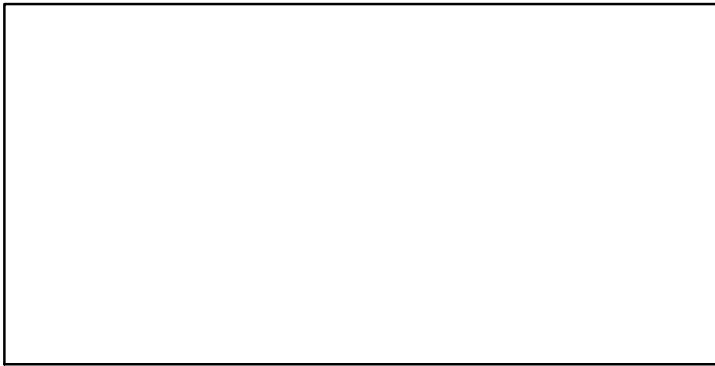
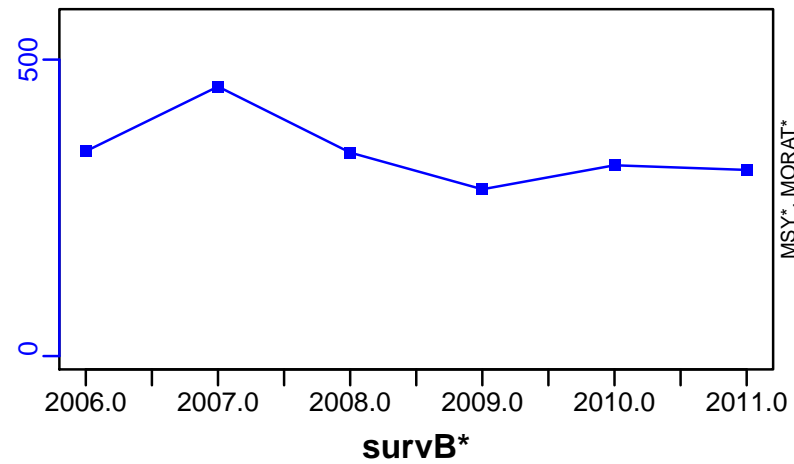
R-E00 (2006-2011-OSIO)



Black bellied angler Malta Island and South of Sicily (GSA 15, 16) [ANGLMEDGSA15-16]

TC-MT, TL\*, RecC\* (2006-2011-OSIO)

TAC\*, Cpair\*, Cadv\*



## Black bellied angler Balearic Island [ANGLMEDGSA5]

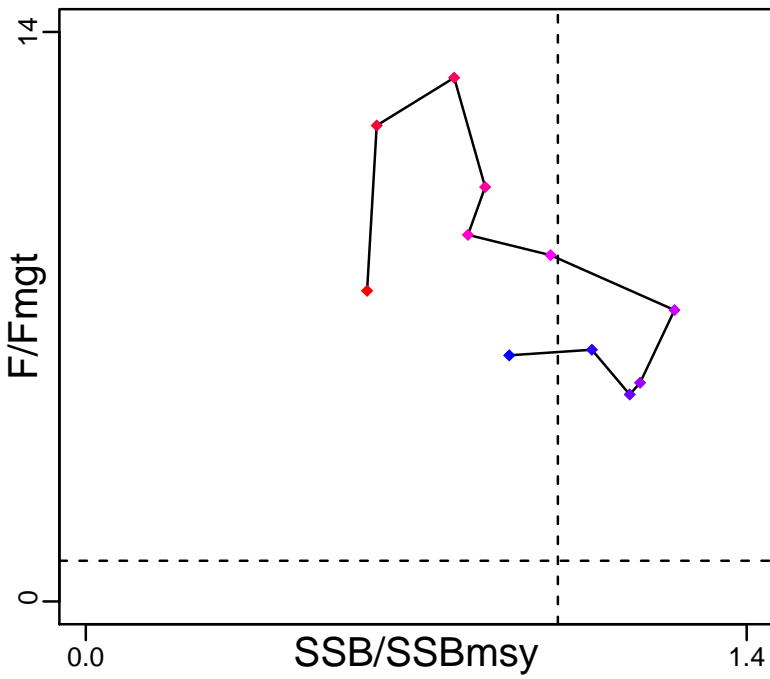
Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	STECF-ANGLMEDGSA5-2003-2013-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	14
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.334
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.08
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	18
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

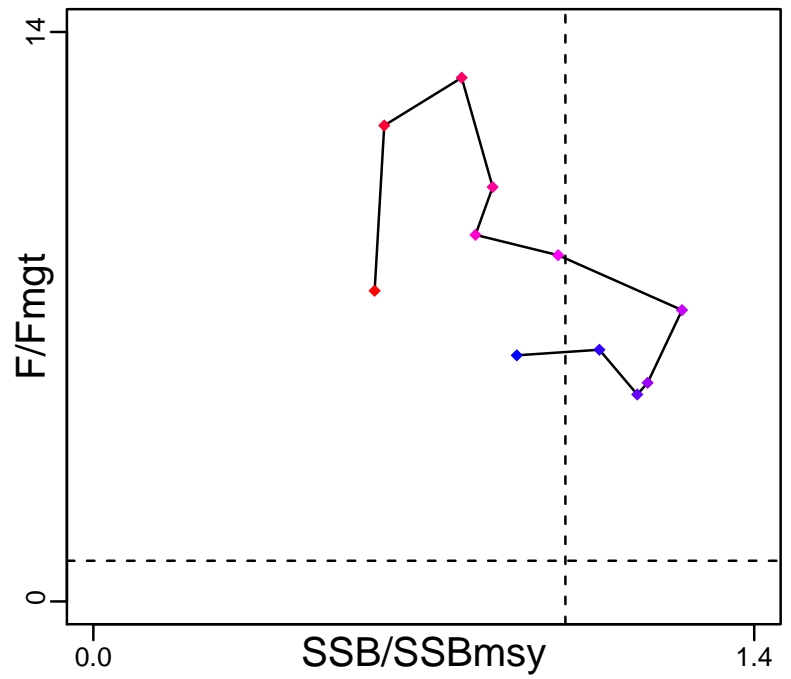
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	8	-	5+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	152,000	-	-
<b>F</b>	F-1/yr	2013	0.611	-	-
<b>ER</b>	ER-calc-ratio	2013	0.338	-	-
<b>TC</b>	TC-MT	2013	11		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	0.596		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	1.01		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	7.638		
<b>ER/ERmgt</b>	-	-	-		

# Black bellied angler Balearic Island [ANGLMEDGSA5]

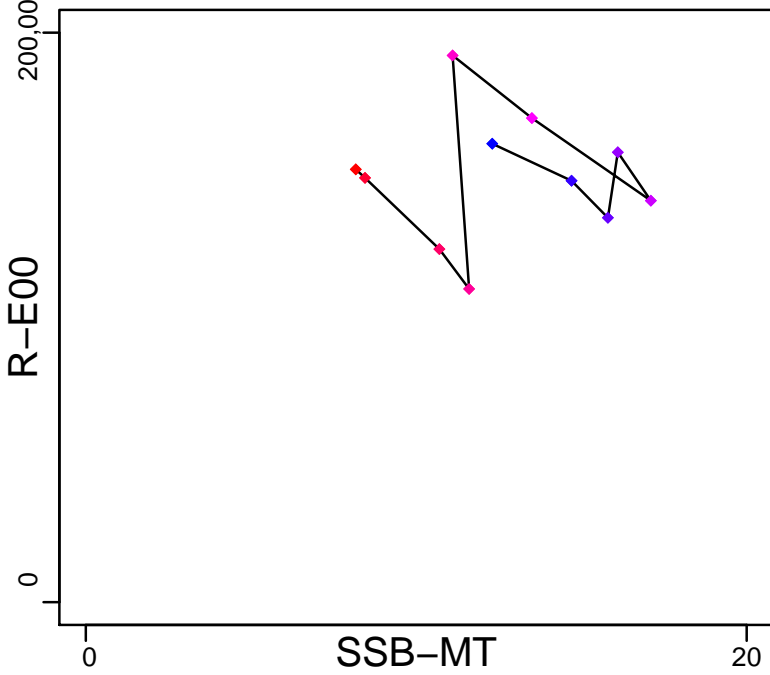
Kobe MSYpref (2003–2013–OSIO)



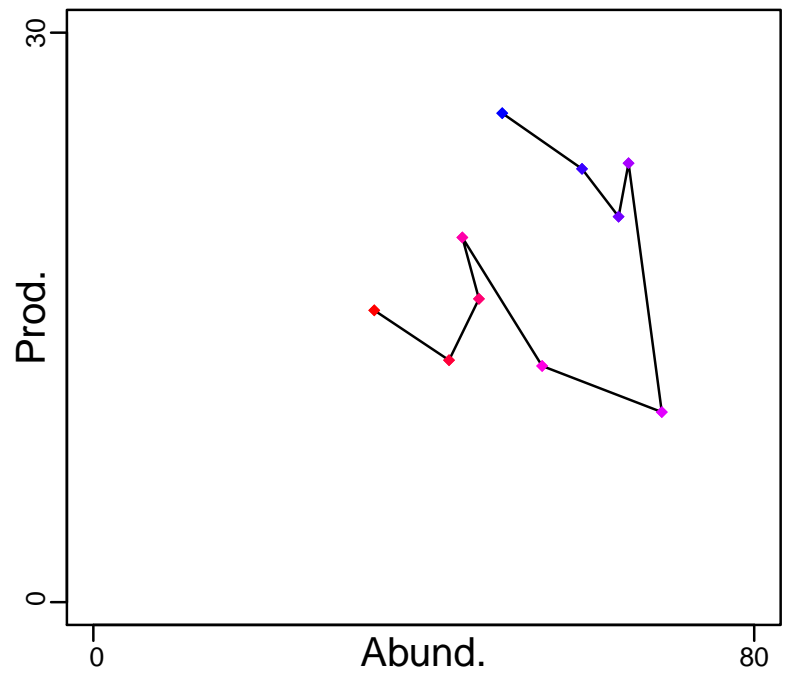
Kobe MGTpref (2003–2013–OSIO)



Spawner Recruit (2003–2013–OSIO)



Production (2003–2013–OSIO)



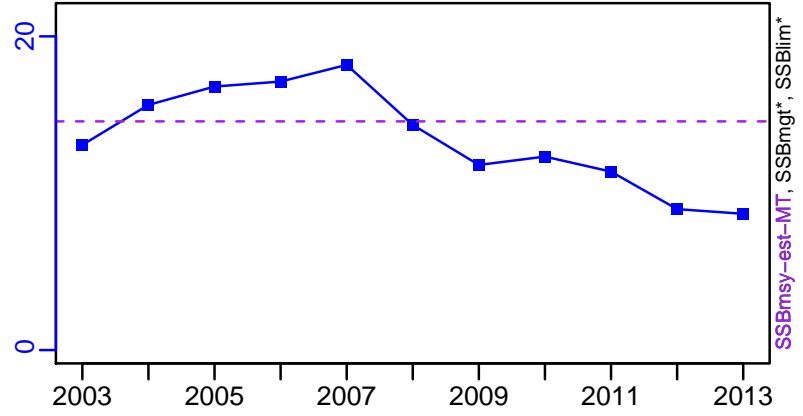
◆ Start Year ◆ End Year \* No Data

# Black bellied angler Balearic Island [ANGLMEDGSA5]

TB\*



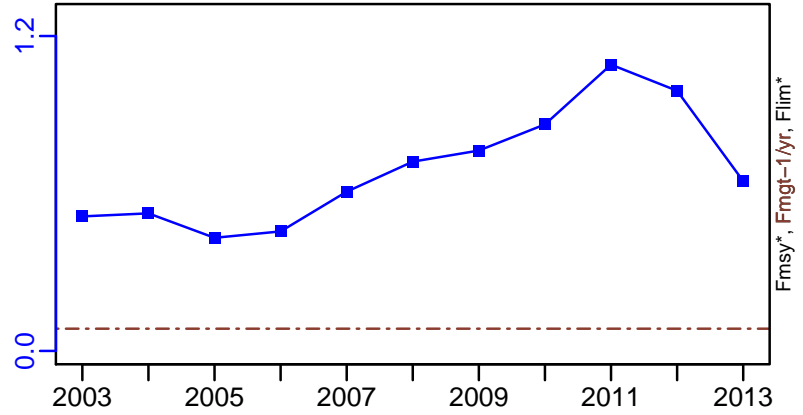
SSB-MT (2003–2013–OSIO)



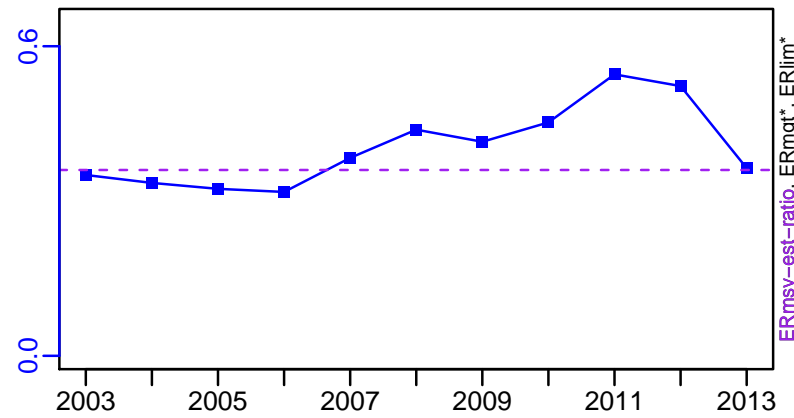
TN \*



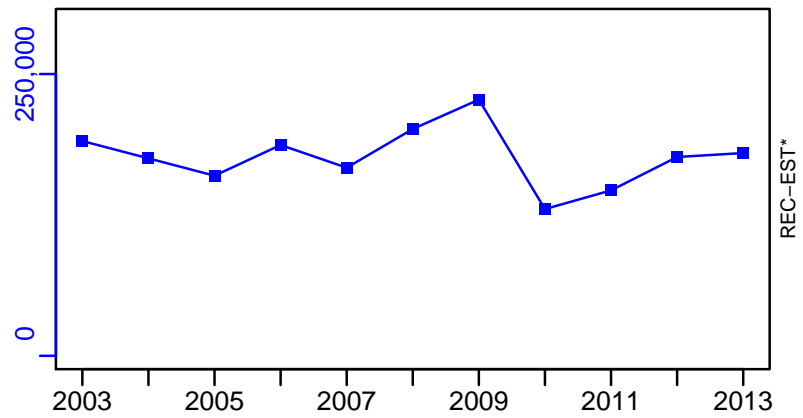
F-1/yr (2003–2013–OSIO)



ER-calc-ratio (2003–2013–OSIO)



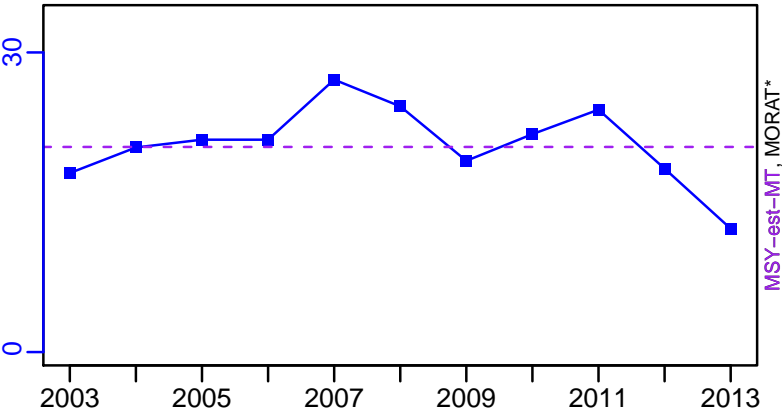
R-E00 (2003–2013–OSIO)



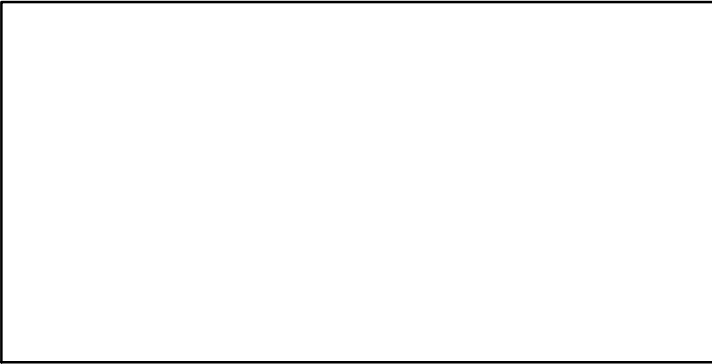
# Black bellied angler Balearic Island [ANGLMEDGSA5]

TC-MT, TL\*, RecC\* (2003–2013–OSIO)

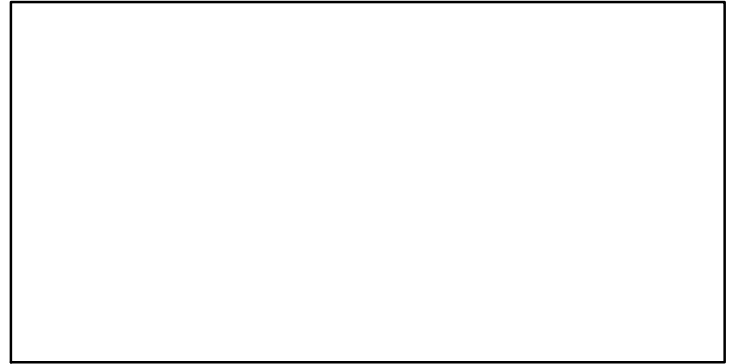
TAC\*, Cpair\*, Cadv\*



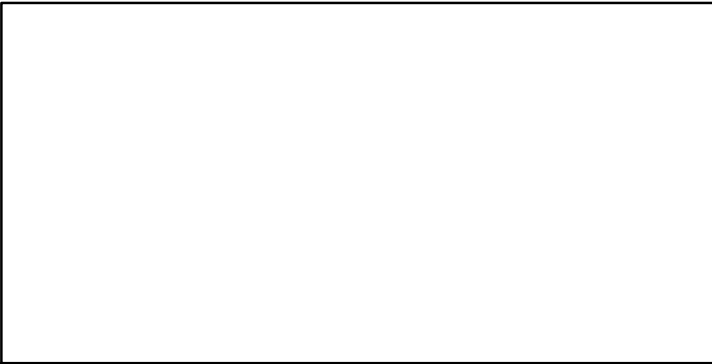
survB\*



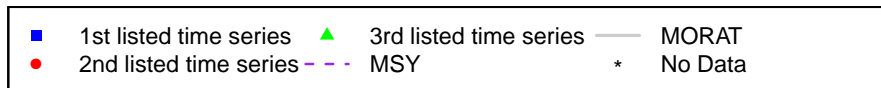
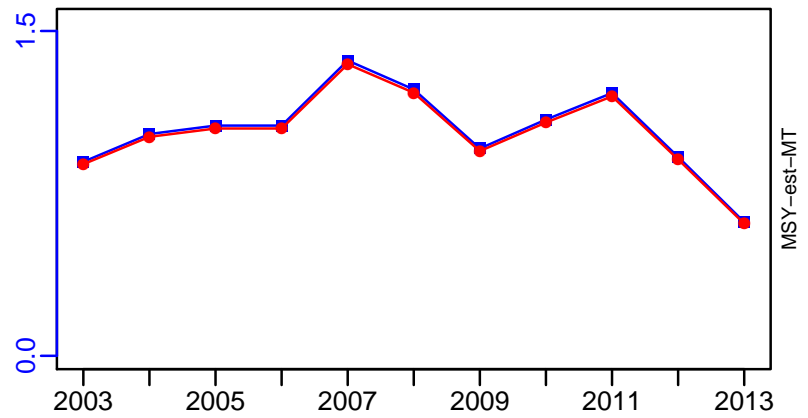
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003–2013–OSIO)



## Black bellied angler Northern Spain [ANGLMEDGSA6]

Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	STECF-ANGLMEDGSA6-2004-2013-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

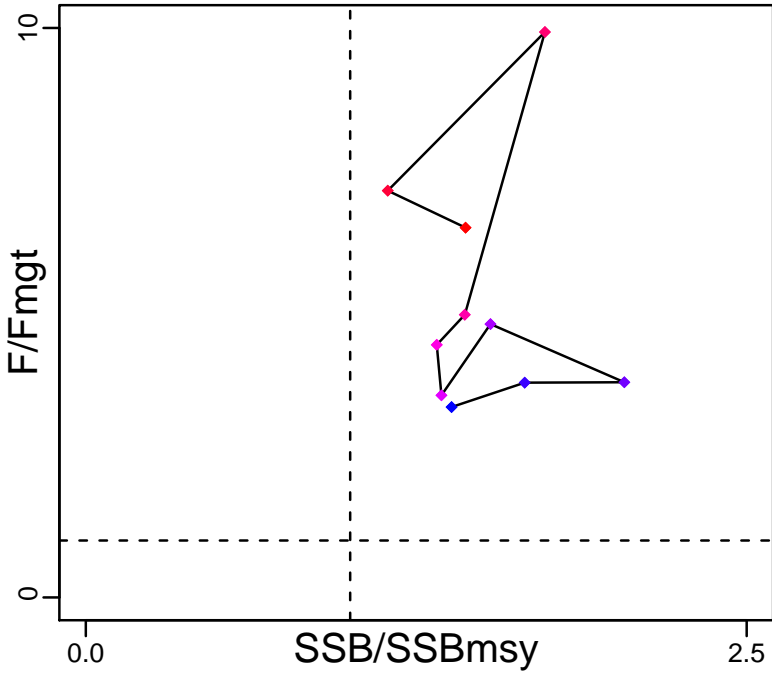
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	340
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.794
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.14
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	937
<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>	SSB-MT	2013	488	-	5+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	9,510,000	-	-
<b>F</b>	F-1/yr	2013	0.909	-	-
<b>ER</b>	ER-calc-ratio	2013	0.619	-	-
<b>TC</b>	TC-MT	2013	1050		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	1.437		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	0.78		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	6.493		
<b>ER/ERmgt</b>	-	-	-		

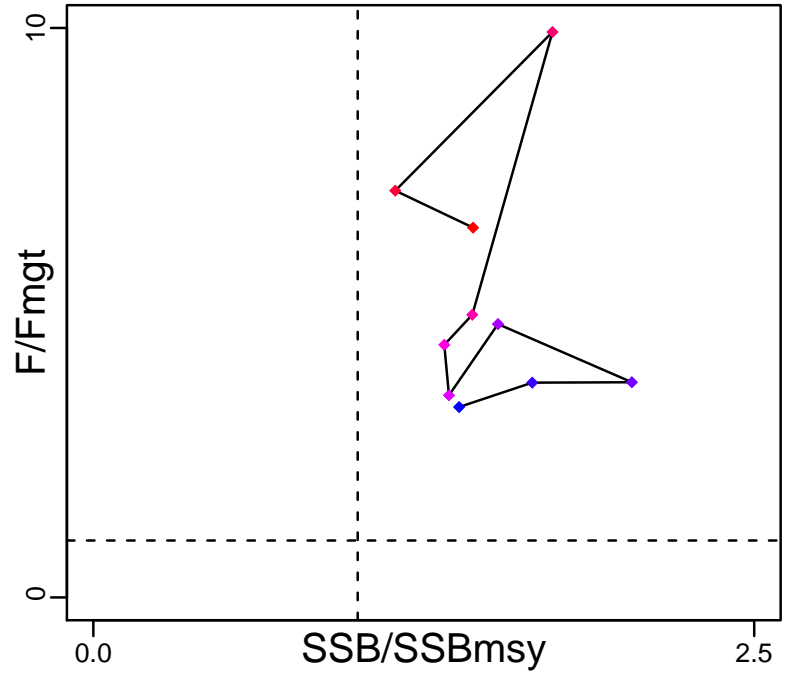


# Black bellied angler Northern Spain [ANGLMEDGSA6]

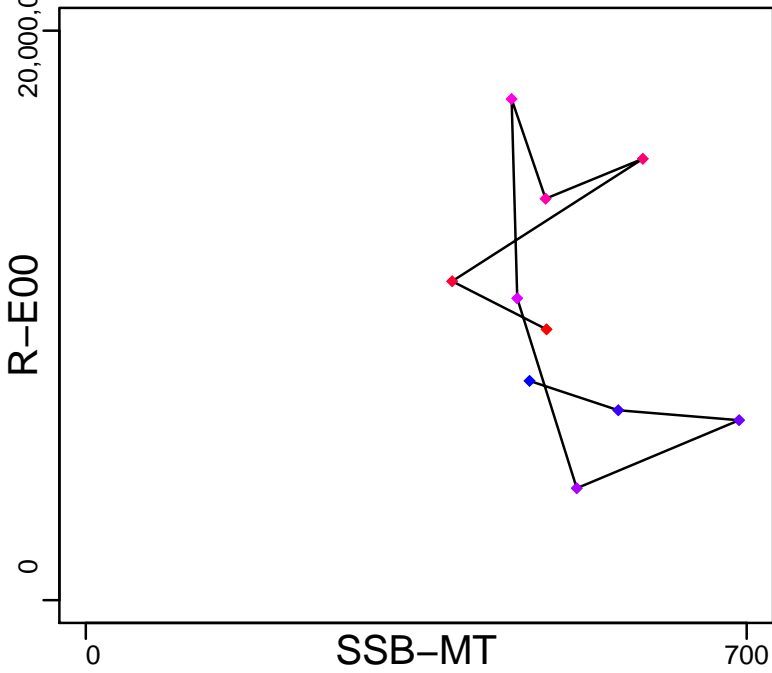
Kobe MSYpref (2004–2013–OSIO)



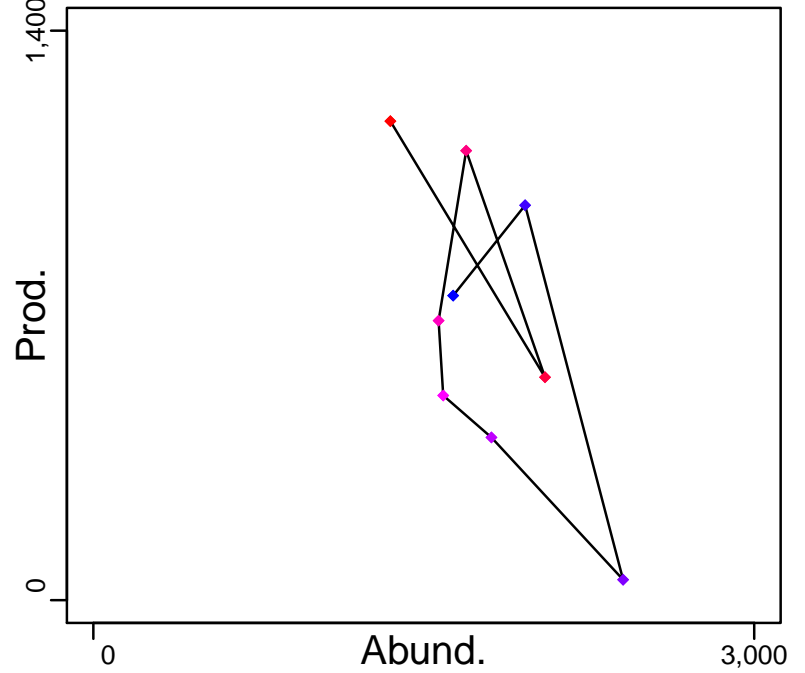
Kobe MGTpref (2004–2013–OSIO)



Spawner Recruit (2004–2013–OSIO)



Production (2004–2013–OSIO)



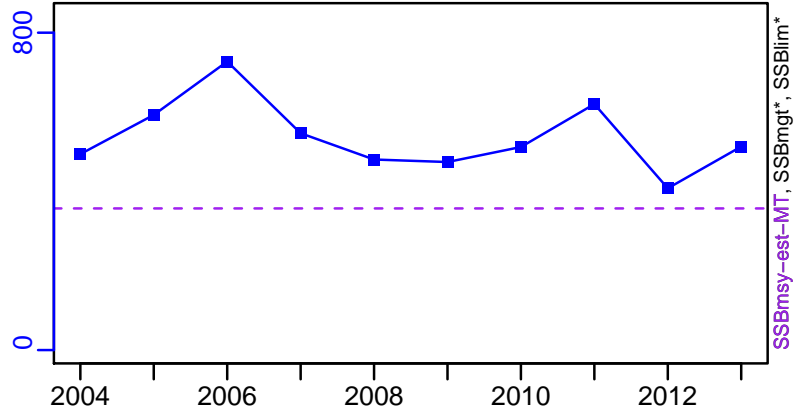
◆ Start Year ◆ End Year \* No Data

# Black bellied angler Northern Spain [ANGLMEDGSA6]

TB\*



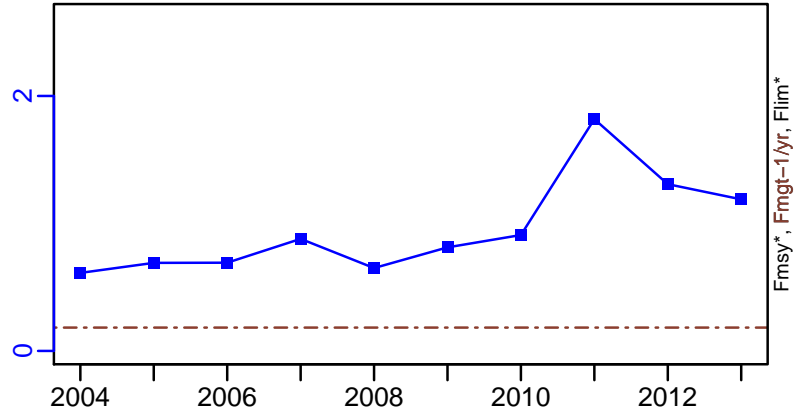
SSB-MT (2004–2013–OSIO)



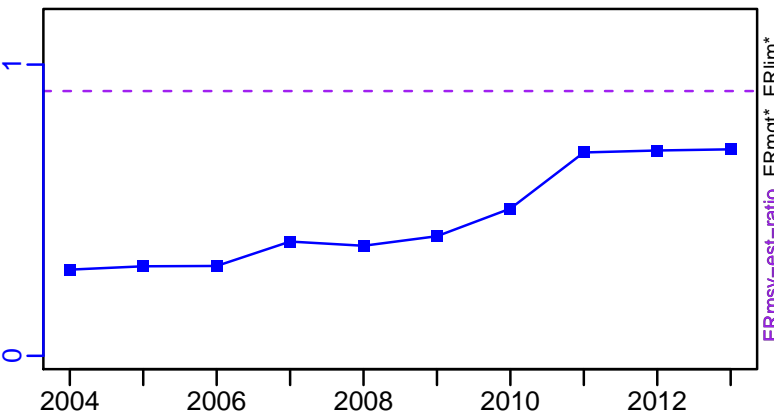
TN \*



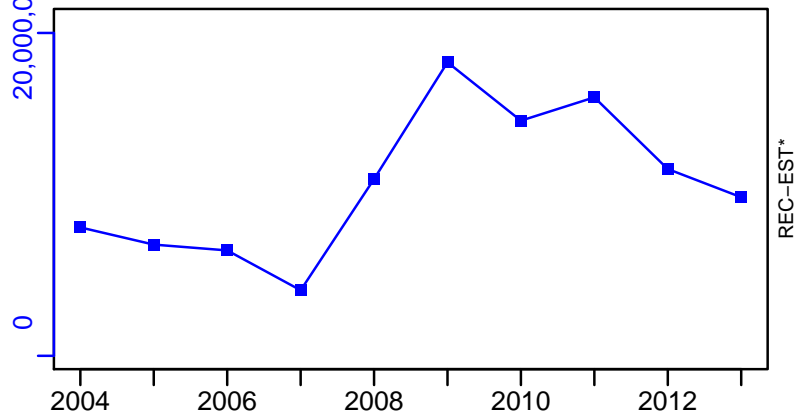
F-1/yr (2004–2013–OSIO)



ER-calc-ratio (2004–2013–OSIO)

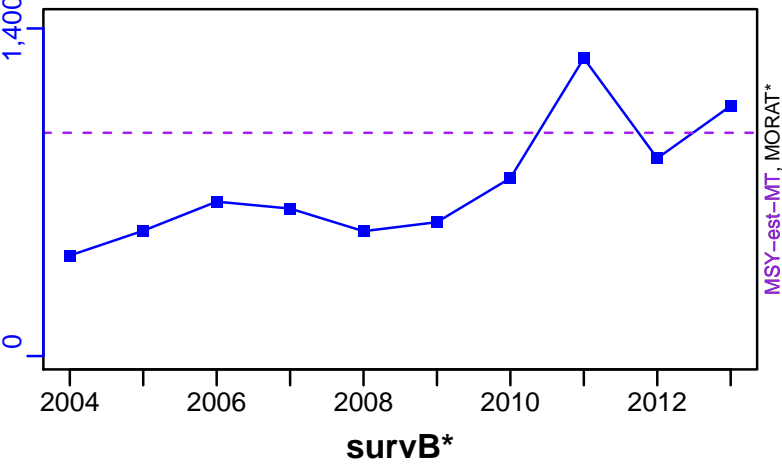


R-E00 (2004–2013–OSIO)

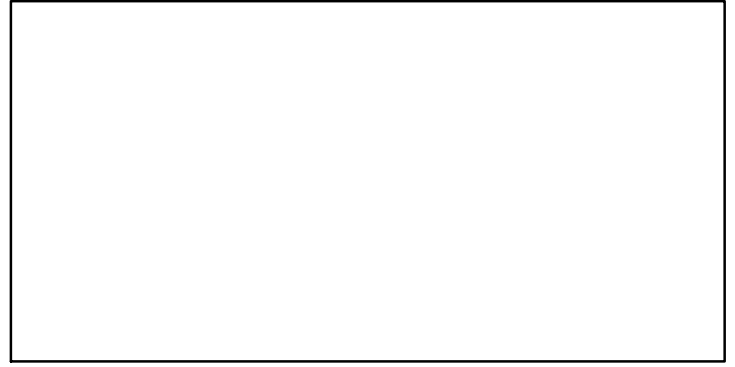


# Black bellied angler Northern Spain [ANGLMEDGSA6]

TC-MT, TL\*, RecC\* (2004-2013-OSIO)



TAC\*, Cpair\*, Cadv\*



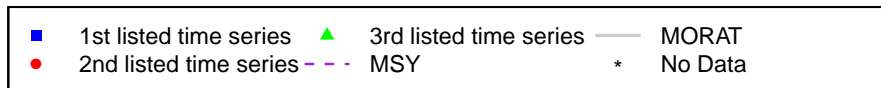
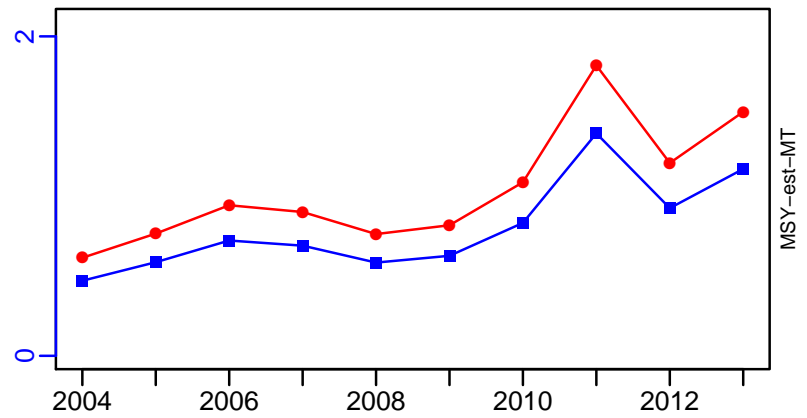
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2004-2013-OSIO)



## Black bellied angler Gulf of Lions [ANGLMEDGSA7]

Metadata	
<b>Scientific Name</b>	Lophius budegassa
<b>Current Assess ID</b>	STECF-ANGLMEDGSA7-2005-2011-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.29
ERmgt	-	-	-
TB0	-	-	-
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	2011	355		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

Black bellied angler Gulf of Lions [ANGLMEDGSA7]

TB\*



SSB\*



TN \*



F\*



ER\*

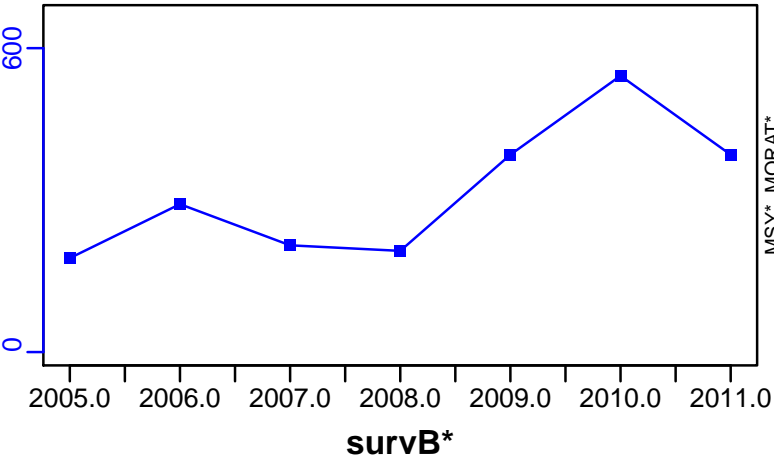


Recruits\*



Black bellied angler Gulf of Lions [ANGLMEDGSA7]

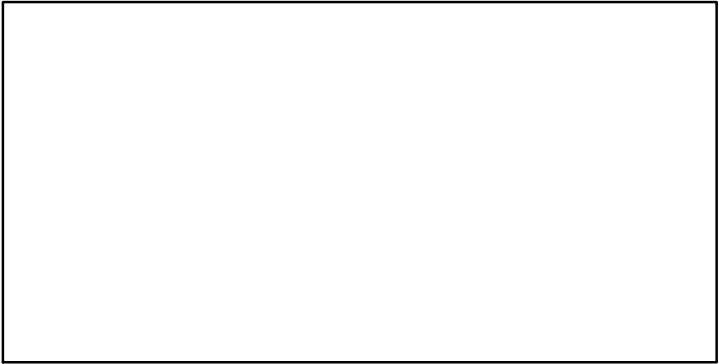
TC-MT, TL\*, RecC\* (2005-2011-OSIO)



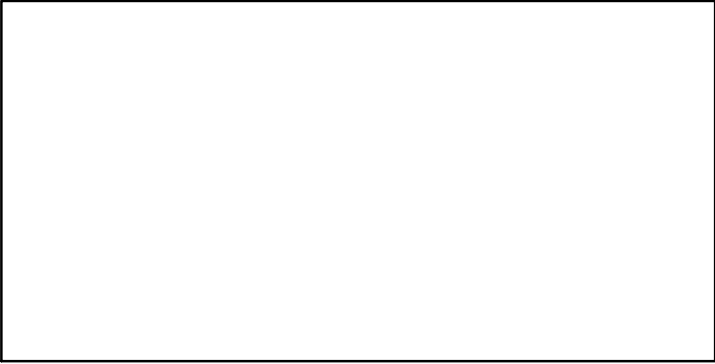
TAC\*, Cpair\*, Cadv\*



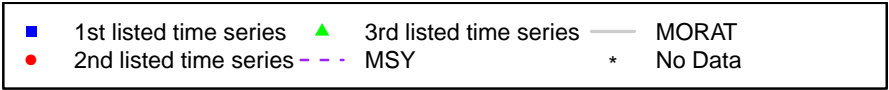
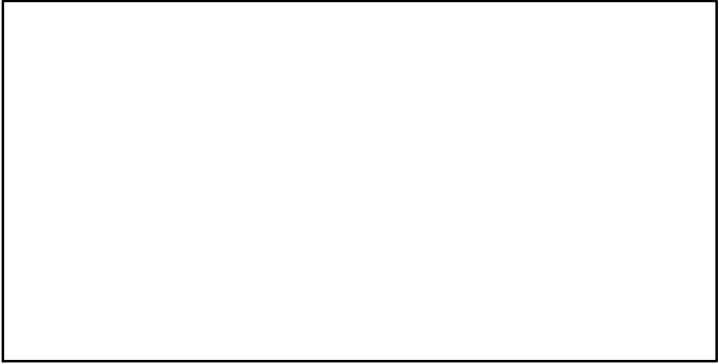
CPUE\*



EFFORT\*



CdivMSY\*



## Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

Metadata	
<b>Scientific Name</b>	Micromesistius poutassou
<b>Current Assess ID</b>	STECF-BWHITMEDGSA1-2002-2011-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

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>	Fmgt-1/yr	2011	0.4
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	428	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	30,300,000	-	-
<b>F</b>	F-1/yr	2011	1.4	-	-
<b>ER</b>	ER-calc-ratio	2011	0.875	-	-
<b>TC</b>	TC-MT	2011	644		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2011	3.5		
<b>ER/ERmgt</b>	-	-	-		



Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

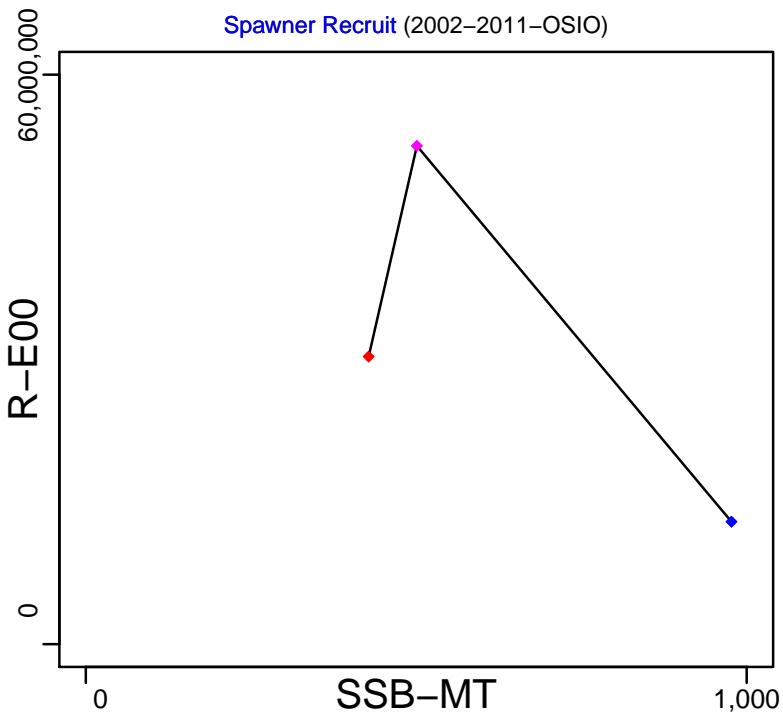
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2002–2011–OSIO)



Production\*



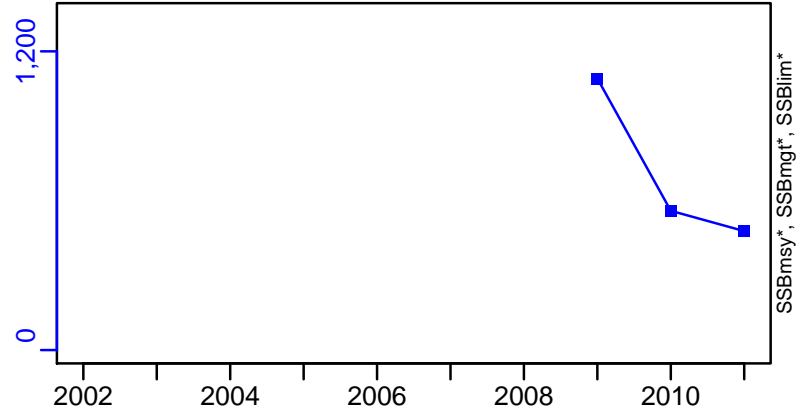
◆ Start Year ◆ End Year \* No Data

# Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

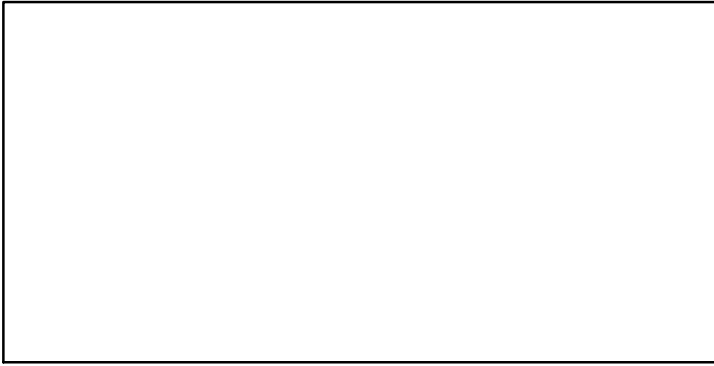
TB\*



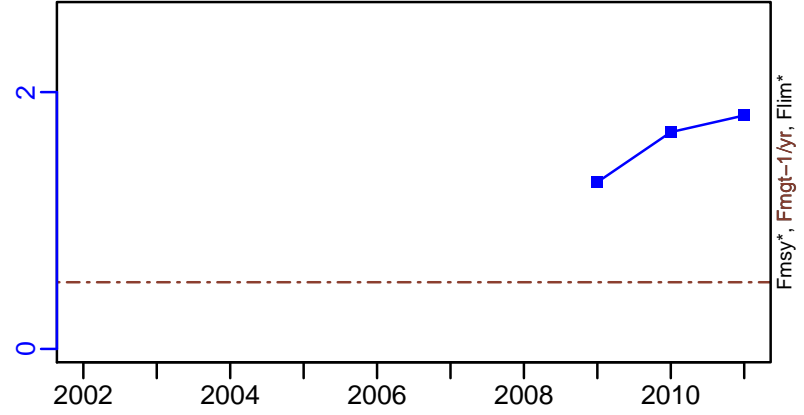
SSB-MT (2002–2011–OSIO)



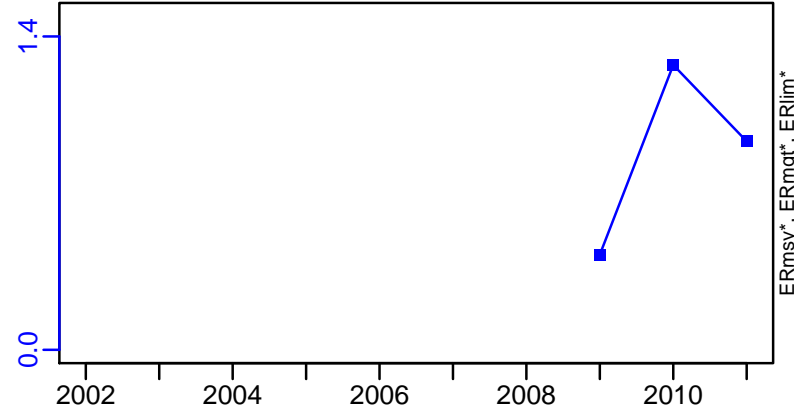
TN \*



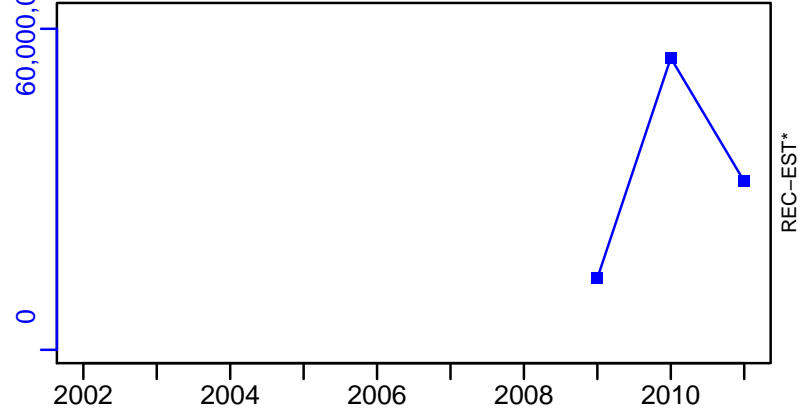
F-1/yr (2002–2011–OSIO)



ER-calc-ratio (2002–2011–OSIO)



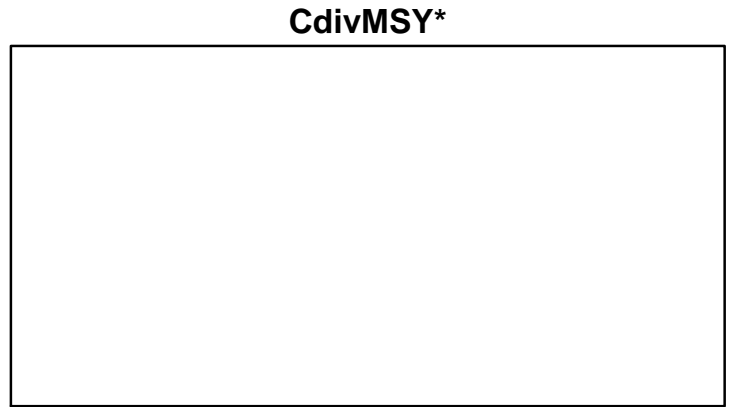
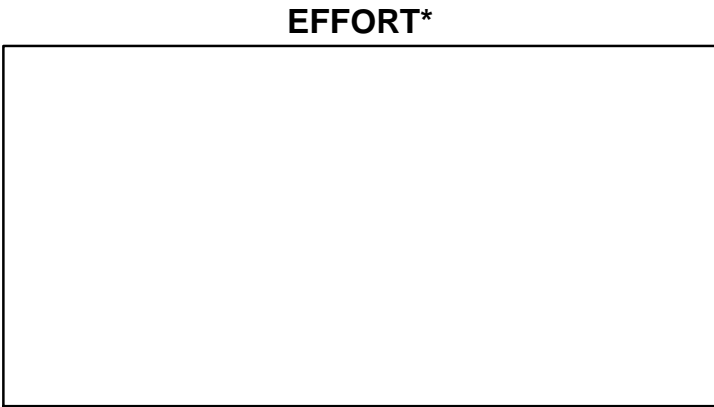
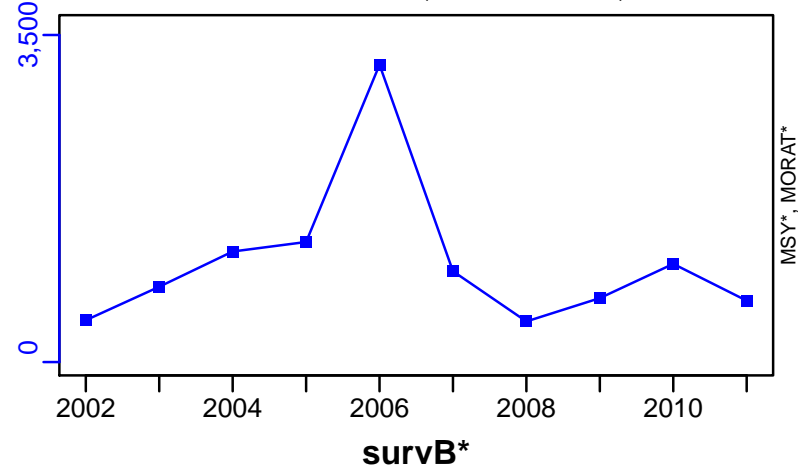
R-E00 (2002–2011–OSIO)



# Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

TC-MT, TL\*, RecC\* (2002-2011-OSIO)

TAC\*, Cpair\*, Cadv\*

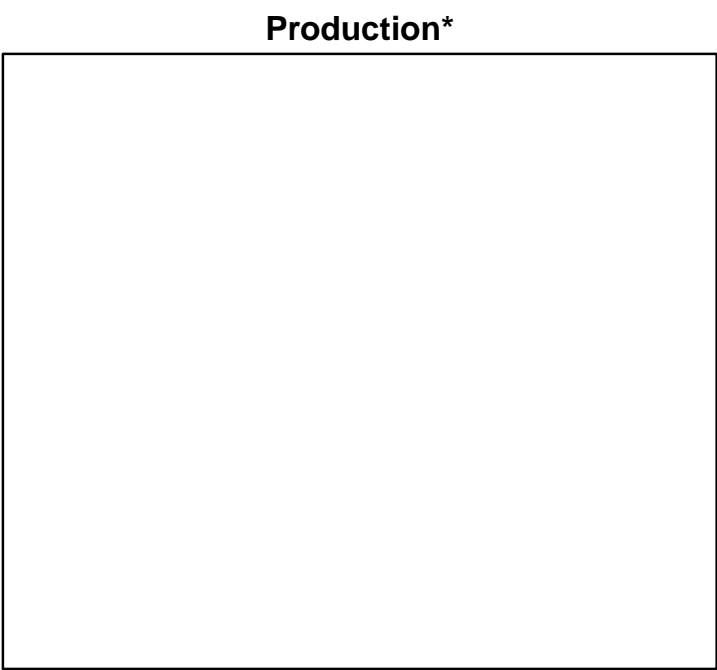
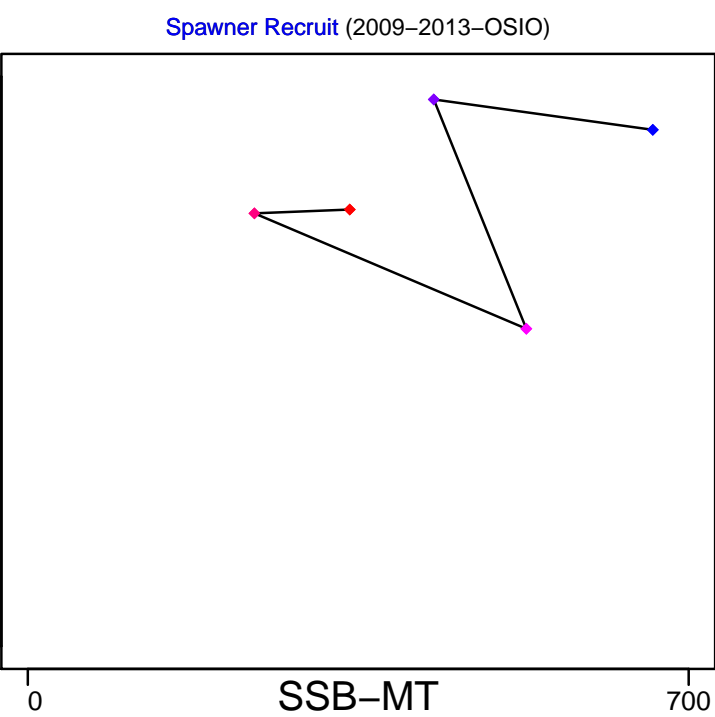


## Blue whiting Northern Spain [BWHITMEDGSA6]

Metadata	
<b>Scientific Name</b>	Micromesistius poutassou
<b>Current Assess ID</b>	STECF-BWHITMEDGSA6-2009-2013-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

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>	Fmgt-1/yr	2013	0.159
<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>	-	-	-

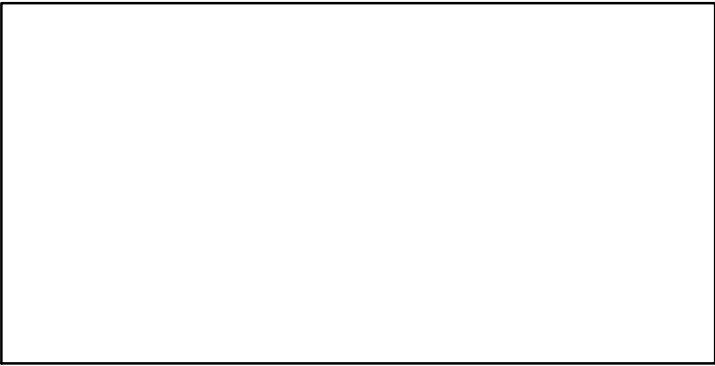
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	341	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	$1.15 \times 10^8$	-	-
<b>F</b>	F-1/yr	2013	1.26	-	-
<b>ER</b>	ER-calc-ratio	2013	1.74	-	-
<b>TC</b>	TC-MT	2013	1020		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	7.903		
<b>ER/ERmgt</b>	-	-	-		



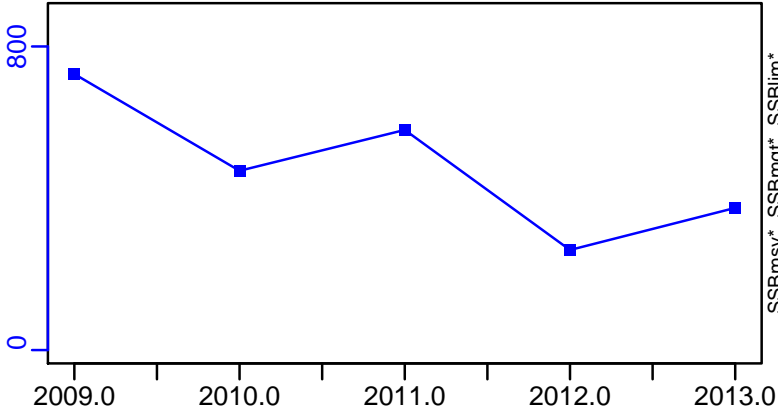
◆ Start Year ◆ End Year \* No Data

Blue whiting Northern Spain [BWHITMEDGSA6]

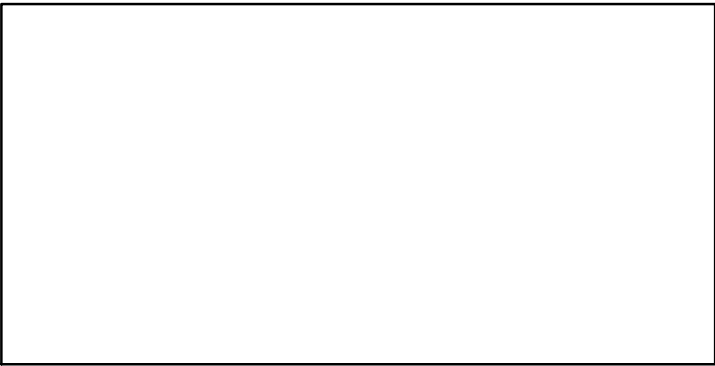
TB\*



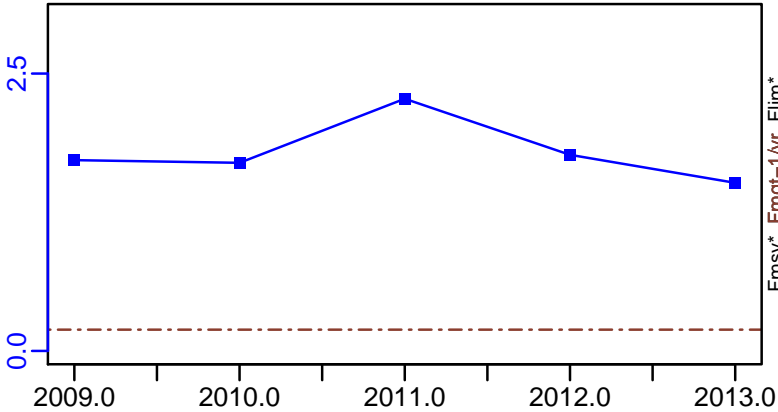
SSB-MT (2009–2013–OSIO)



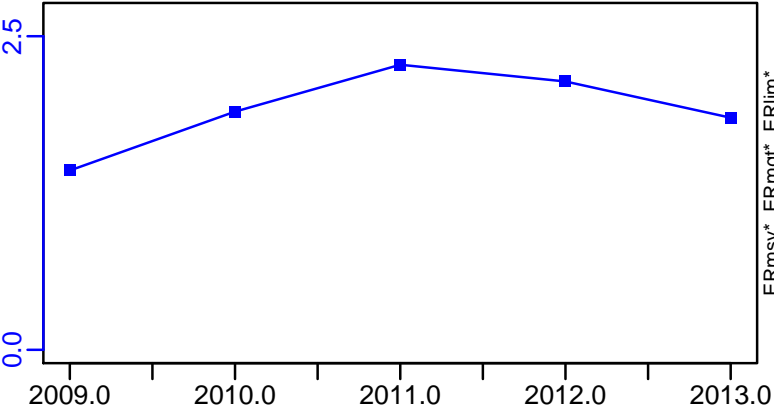
TN \*



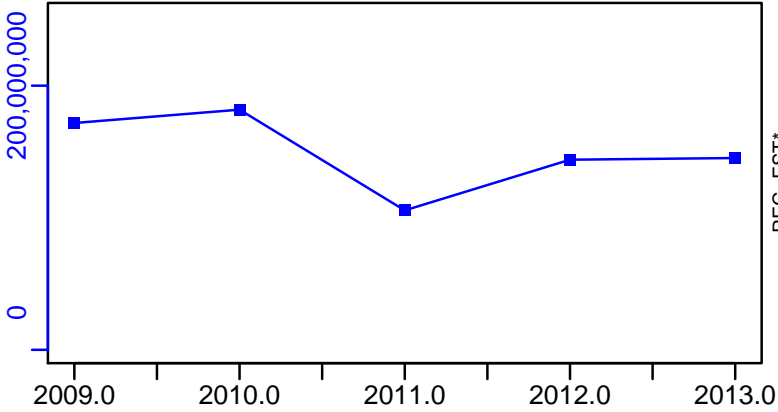
F-1/yr (2009–2013–OSIO)



ER-calc-ratio (2009–2013–OSIO)

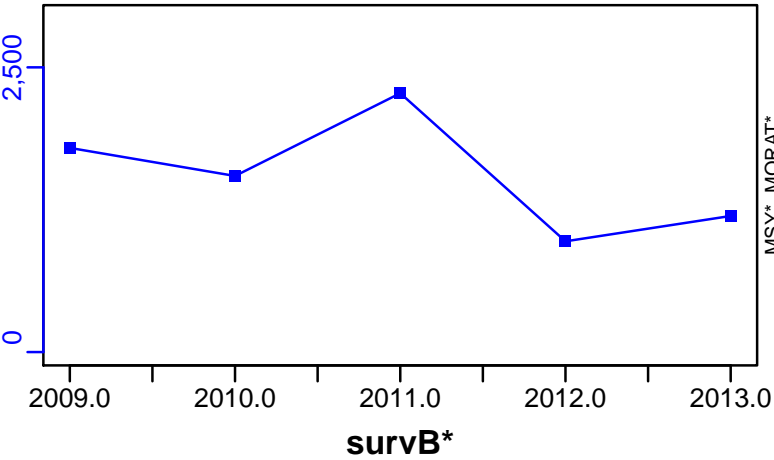


R-E00 (2009–2013–OSIO)



Blue whiting Northern Spain [BWHITMEDGSA6]

TC-MT, TL\*, RecC\* (2009-2013-OSIO)



TAC\*, Cpair\*, Cadv\*



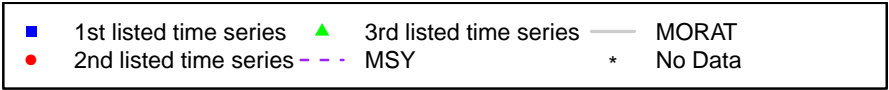
CPUE\*



EFFORT\*



CdivMSY\*



## Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

Metadata	
<b>Scientific Name</b>	Micromesistius poutassou
<b>Current Assess ID</b>	STECF-BWHITMEDGSA9-2009-2013-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

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>	Fmgt-1/yr	2013	0.328
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	281	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	6,880,000	-	-
<b>F</b>	F-1/yr	2013	0.378	-	-
<b>ER</b>	ER-calc-ratio	2013	0.211	-	-
<b>TC</b>	TC-MT	2013	102		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2013	1.151		
<b>ER/ERmgt</b>	-	-	-		



Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

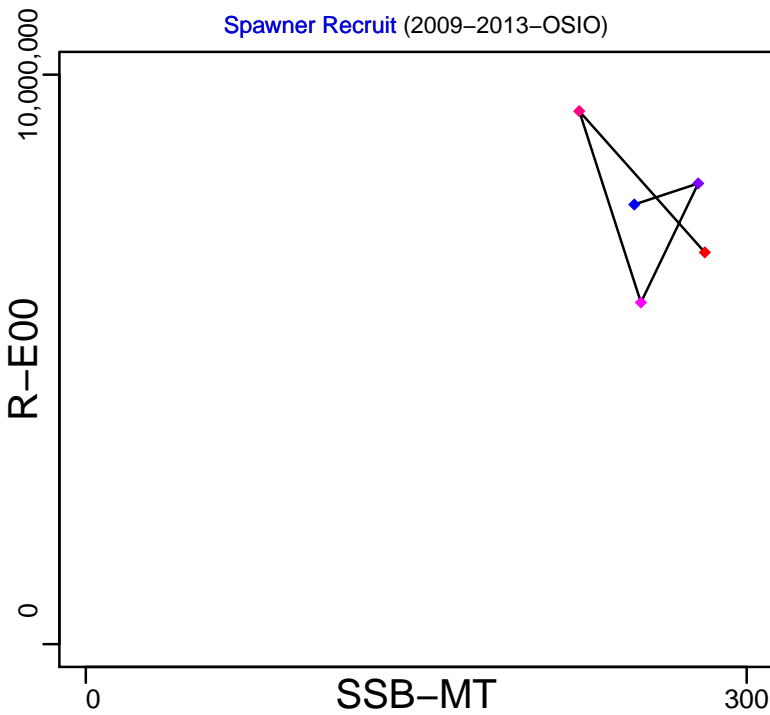
Kobe MSY\*



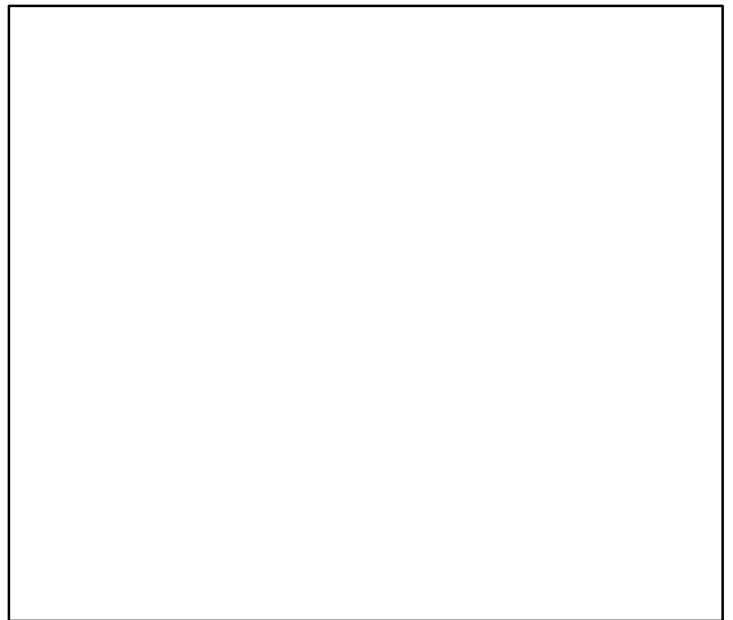
Kobe MGT\*



Spawner Recruit (2009–2013–OSIO)



Production\*



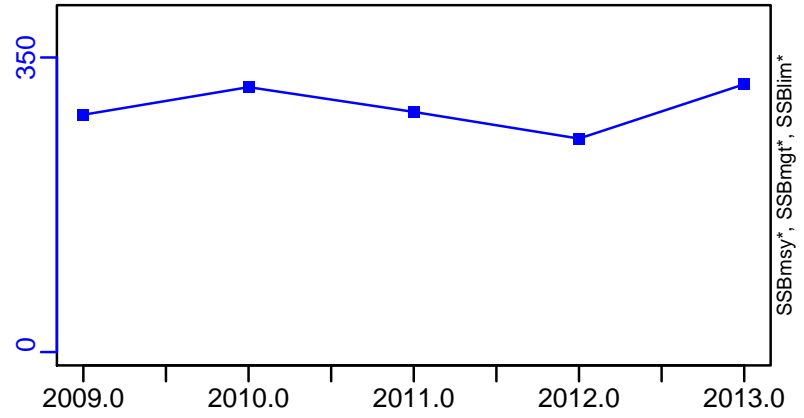
◆ Start Year ◆ End Year \* No Data

# Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

TB\*



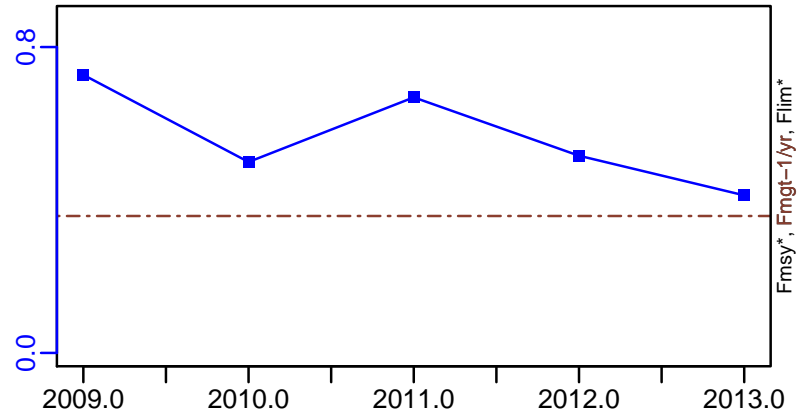
SSB-MT (2009–2013–OSIO)



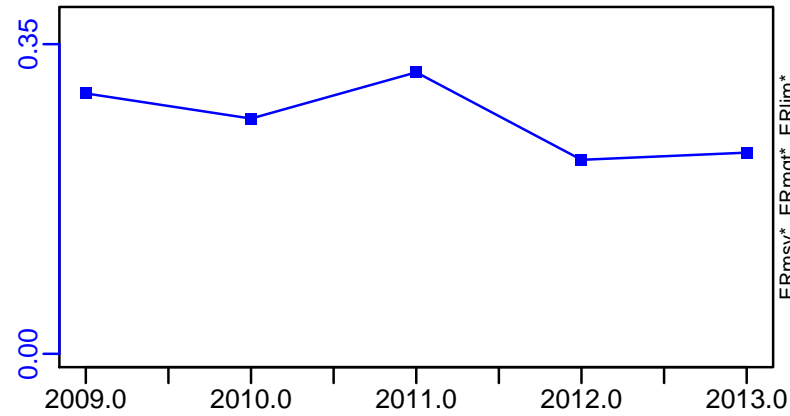
TN \*



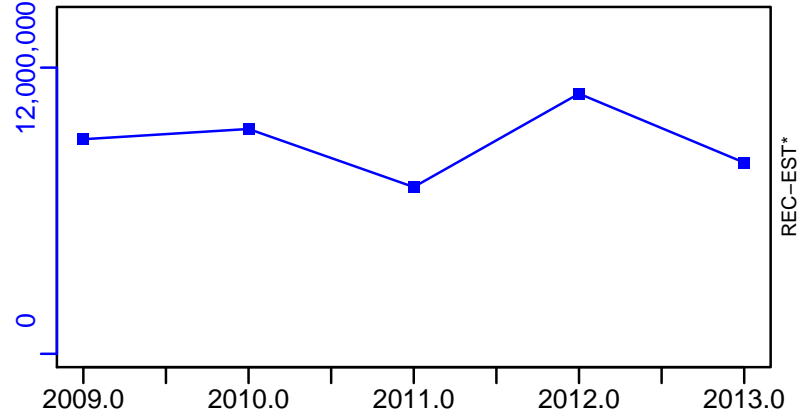
F-1/yr (2009–2013–OSIO)



ER-calc-ratio (2009–2013–OSIO)

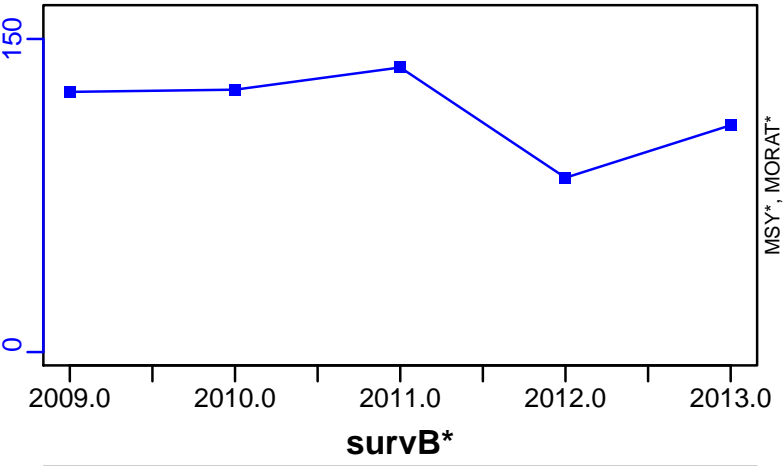


R-E00 (2009–2013–OSIO)



# Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

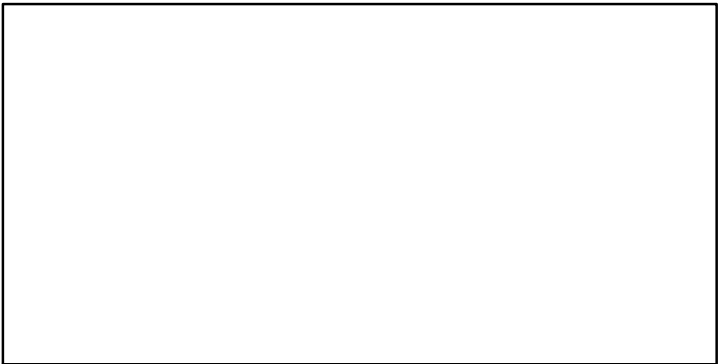
TC-MT, TL\*, RecC\* (2009–2013–OSIO)



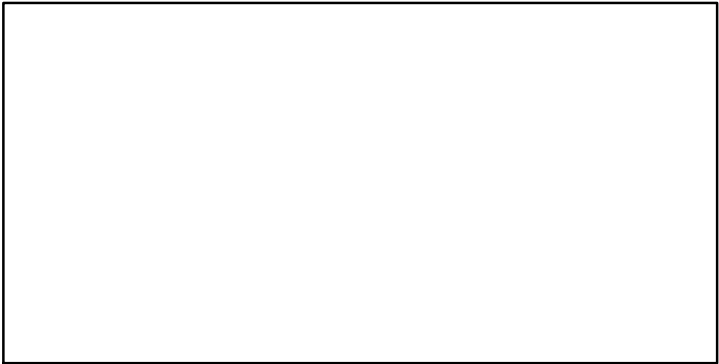
TAC\*, Cpair\*, Cadv\*



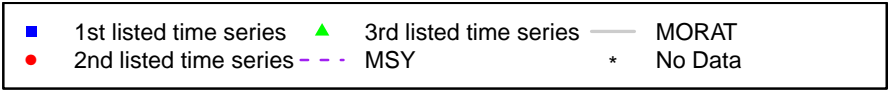
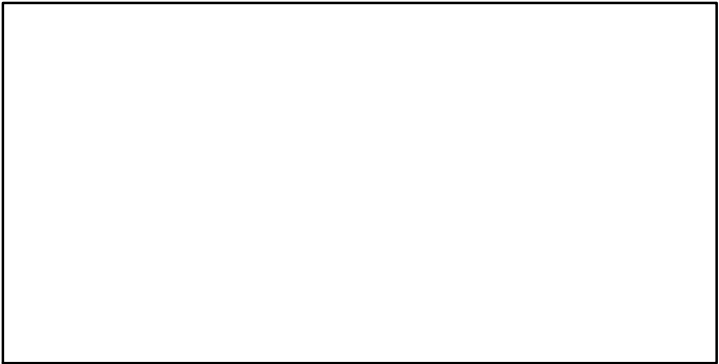
CPUE\*



EFFORT\*



CdivMSY\*



**Common pandora Malta Island and South of Sicily (GSA 15, 16)**  
**[CPANDMEDGSA15-16]**

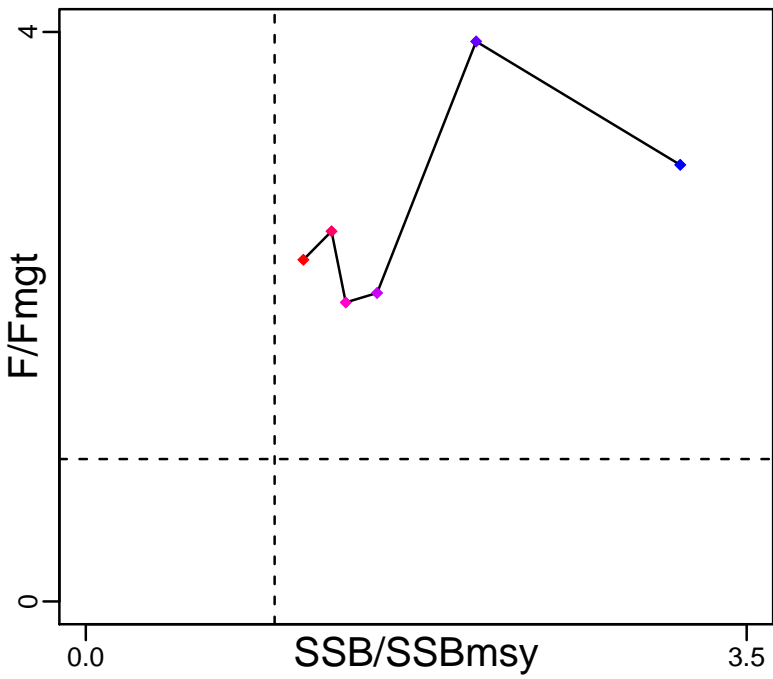
Metadata	
<b>Scientific Name</b>	Pagellus erythrinus
<b>Current Assess ID</b>	STECF-CPANDMEDGSA15-16-2006-2011-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2011	476
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2011	0.138
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.3
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2011	165
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

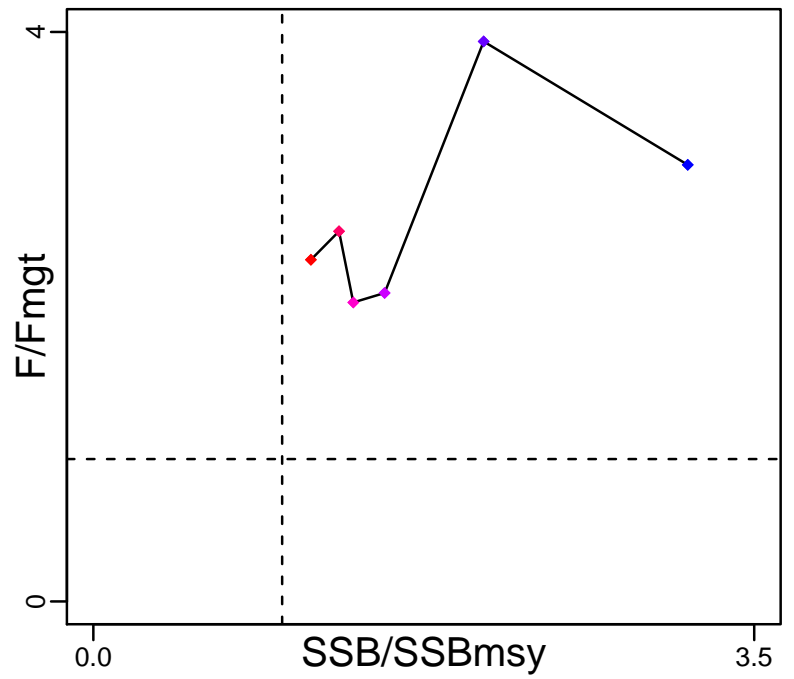
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	549	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	4,850,000	-	-
<b>F</b>	F-1/yr	2011	0.72	-	-
<b>ER</b>	ER-calc-ratio	2011	0.197	-	-
<b>TC</b>	TC-MT	2011	273		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2011	1.152		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2011	1.434		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	2.4		
<b>ER/ERmgt</b>	-	-	-		

Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

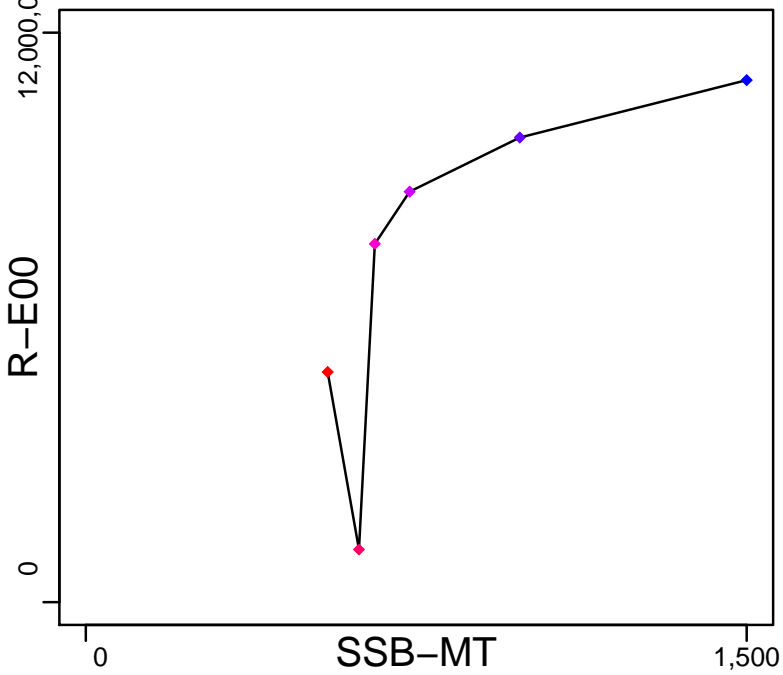
Kobe MSYpref (2006-2011-OSIO)



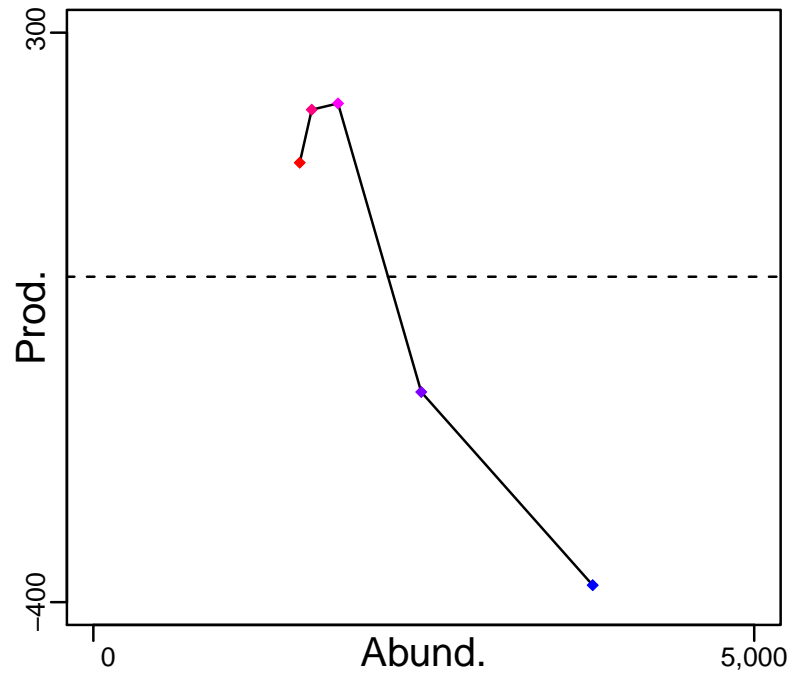
Kobe MGTpref (2006-2011-OSIO)



Spawner Recruit (2006-2011-OSIO)



Production (2006-2011-OSIO)



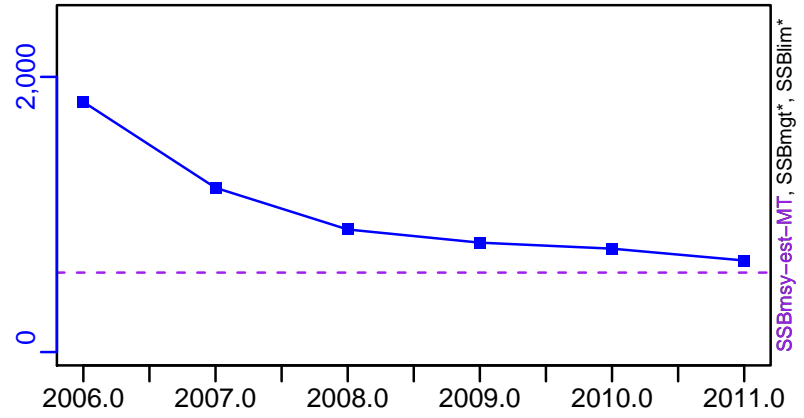
◆ Start Year ◆ End Year \* No Data

Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

TB\*



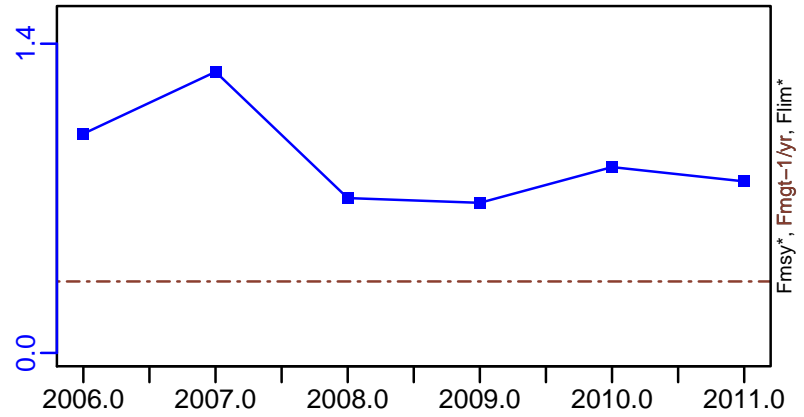
SSB-MT (2006-2011-OSIO)



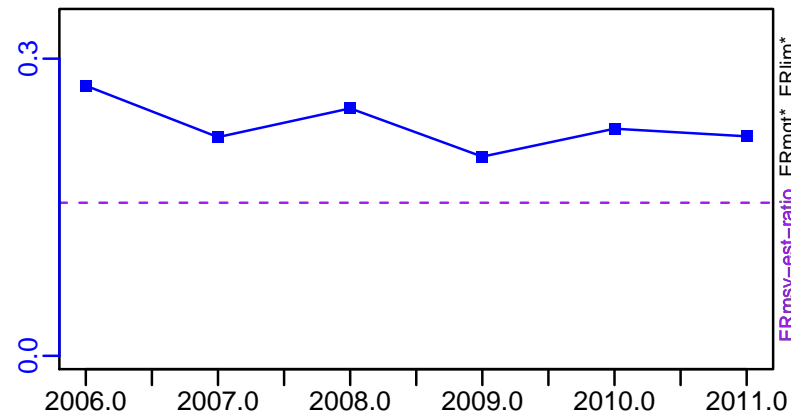
TN \*



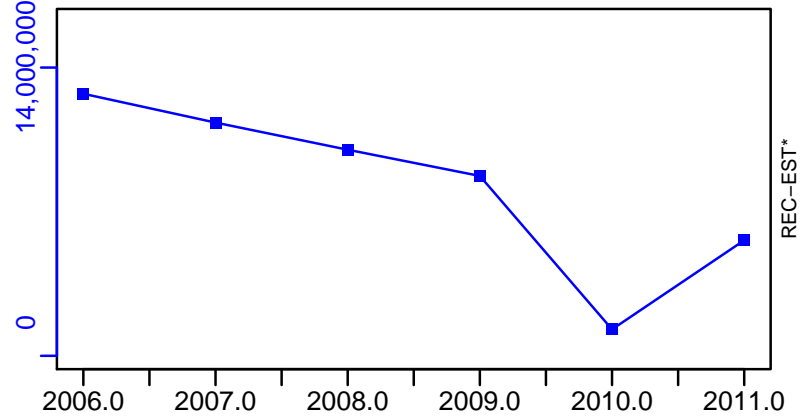
F-1/yr (2006-2011-OSIO)



ER-calc-ratio (2006-2011-OSIO)



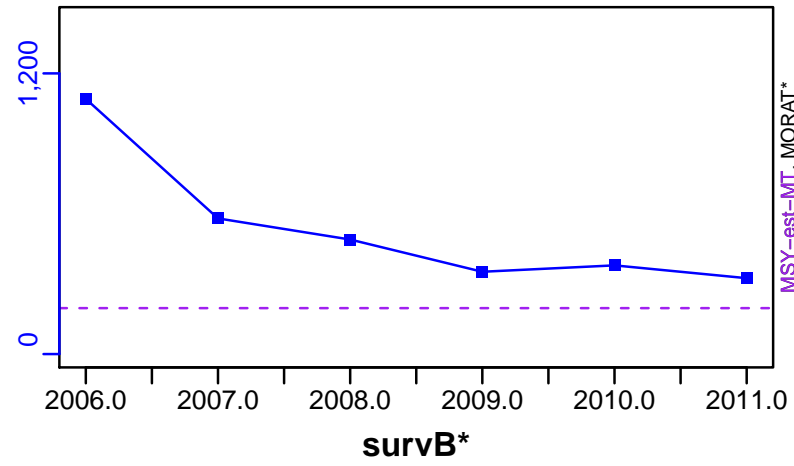
R-E00 (2006-2011-OSIO)



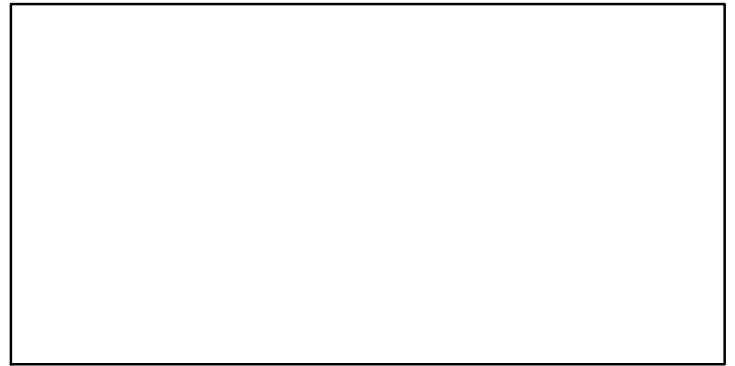
Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

TC-MT, TL\*, RecC\* (2006-2011-OSIO)

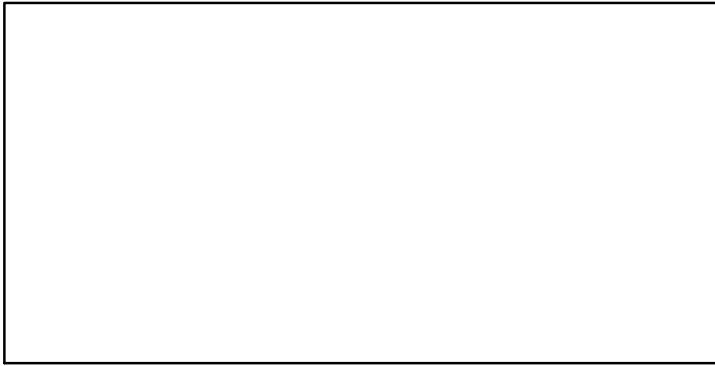
TAC\*, Cpair\*, Cadv\*



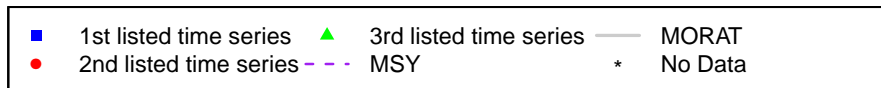
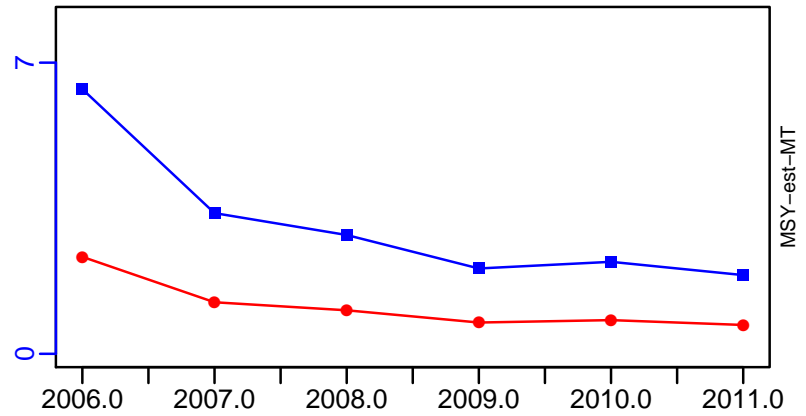
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006-2011-OSIO)



## Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

Metadata	
<b>Scientific Name</b>	Pagellus erythrinus
<b>Current Assess ID</b>	STECF-CPANDMEDGSA9-2006-2010-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.48
ERmgt	-	-	-
TB0	-	-	-
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	2010	171		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



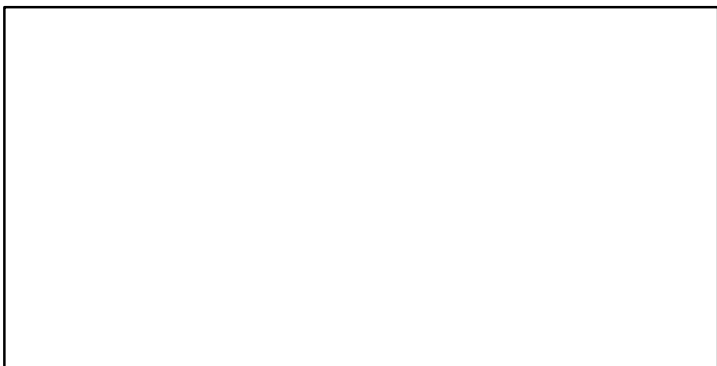
**Production\***



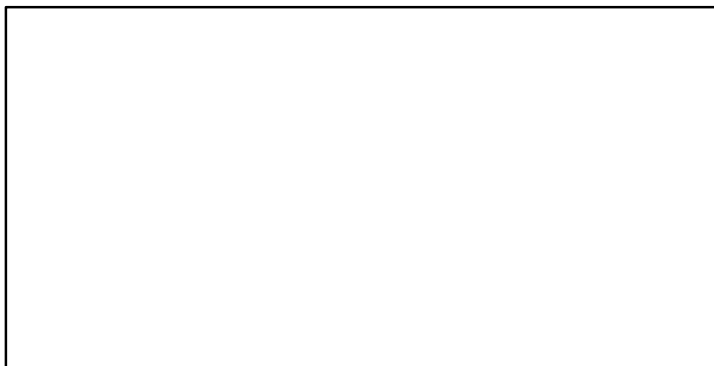
◆ Start Year ◆ End Year \* No Data

Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

**TB\***



**SSB\***



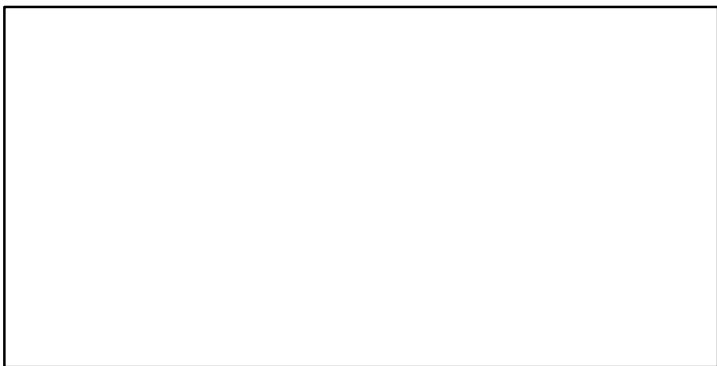
**TN \***



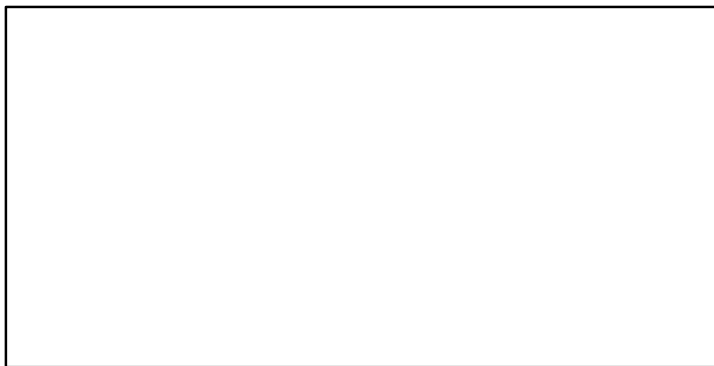
**F\***



**ER\***



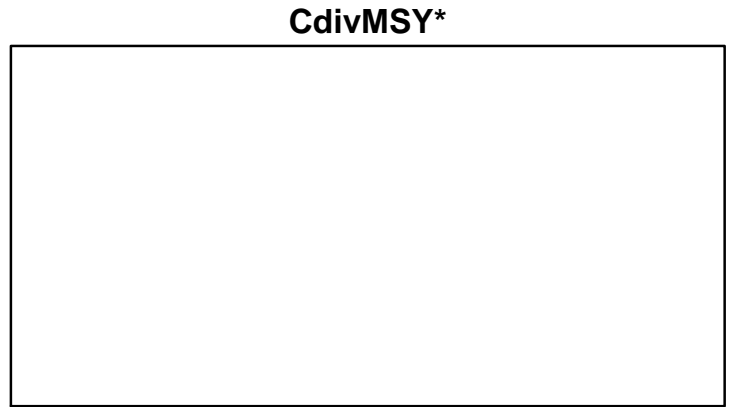
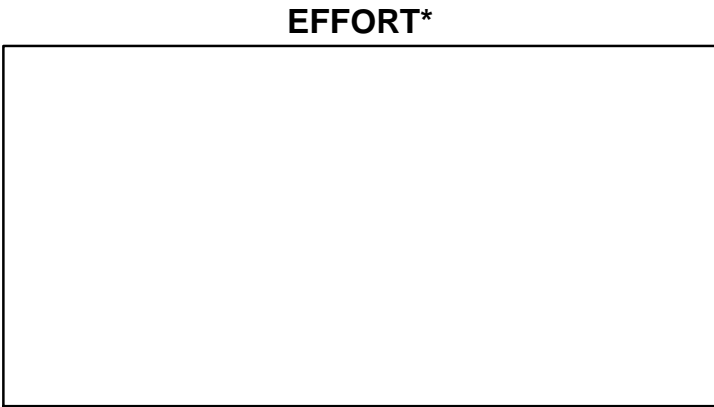
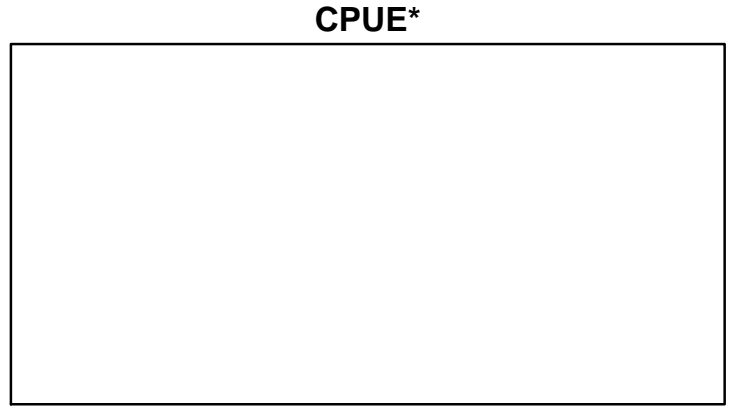
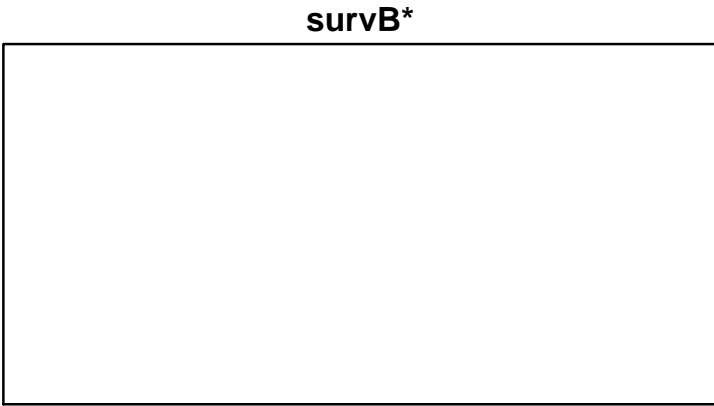
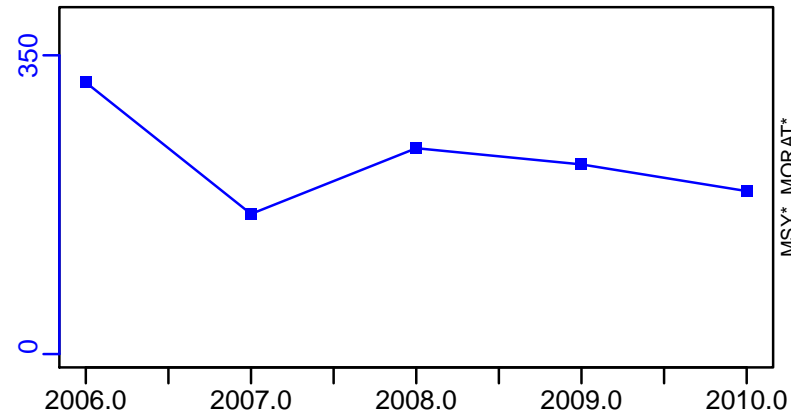
**Recruits\***



Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

TC-MT, TL\*, RecC\* (2006–2010–OSIO)

TAC\*, Cpair\*, Cadv\*

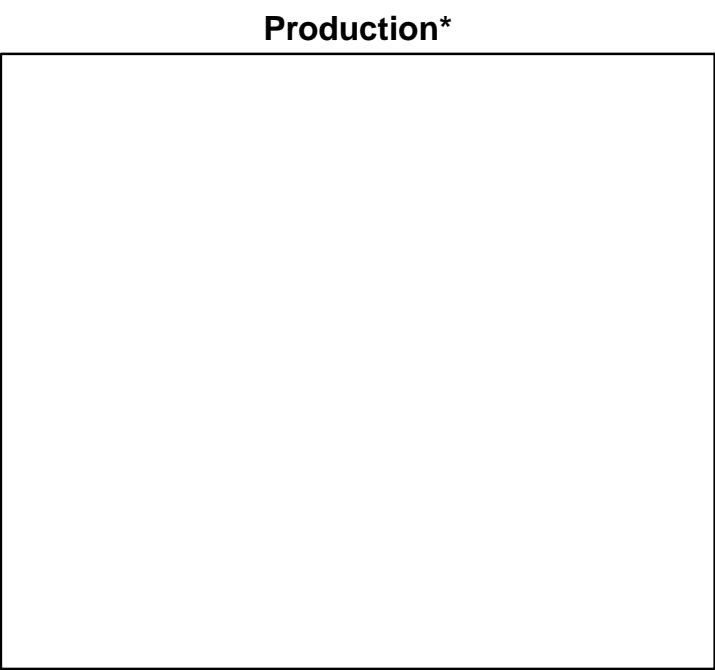
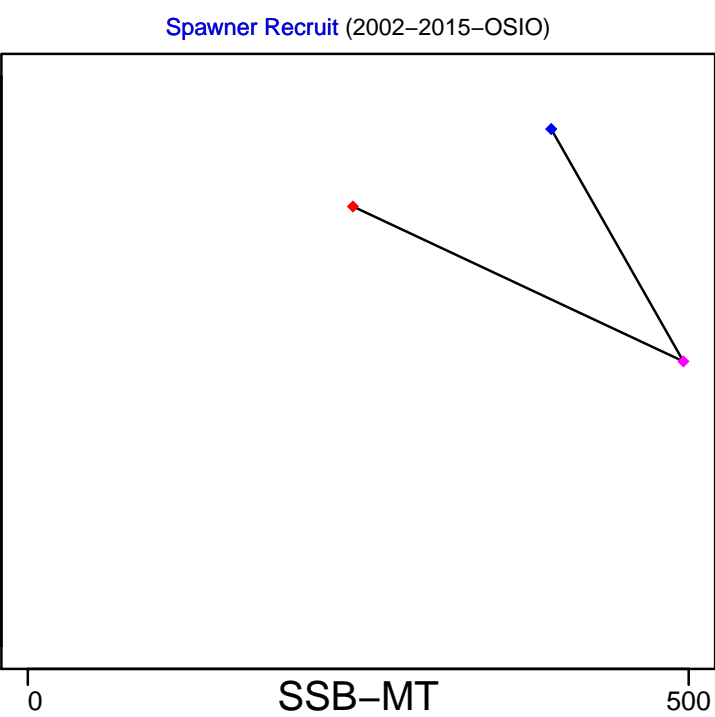
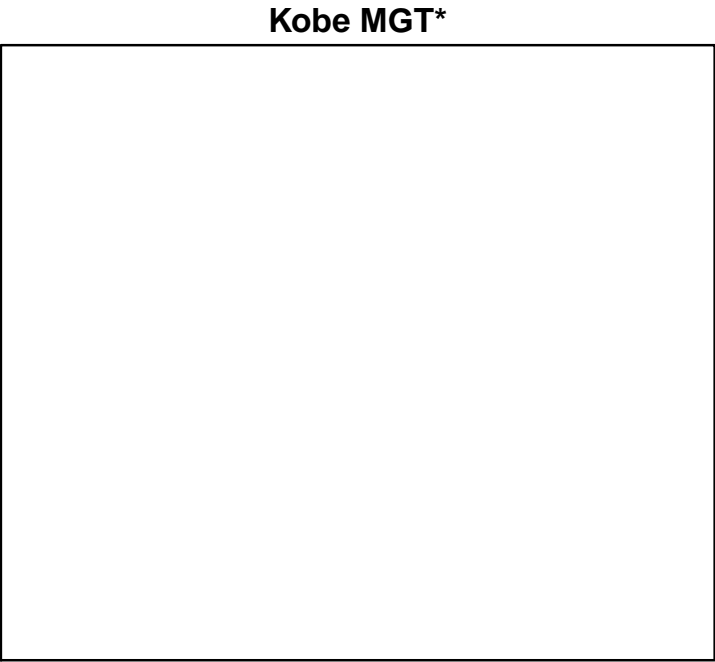


## European seabass Gulf of Lions [EBASSGSA7]

Metadata	
<b>Scientific Name</b>	Dicentrarchus labrax
<b>Current Assess ID</b>	STECF-EBASSGSA7-2002-2015-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.136
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	246	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$3.86 \times 10^8$	-	-
<b>F</b>	F-1/yr	2015	0.536	-	-
<b>ER</b>	ER-calc-ratio	2015	0.482	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	272		
<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>	F-1/yr/Fmgt-1/yr	2015	3.941		
<b>ER/ERmgt</b>	-	-	-		



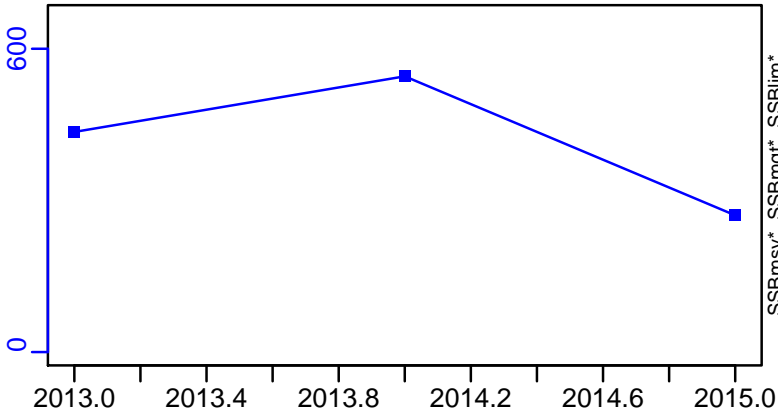
◆ Start Year ◆ End Year \* No Data

European seabass Gulf of Lions [EBASSGSA7]

TB\*



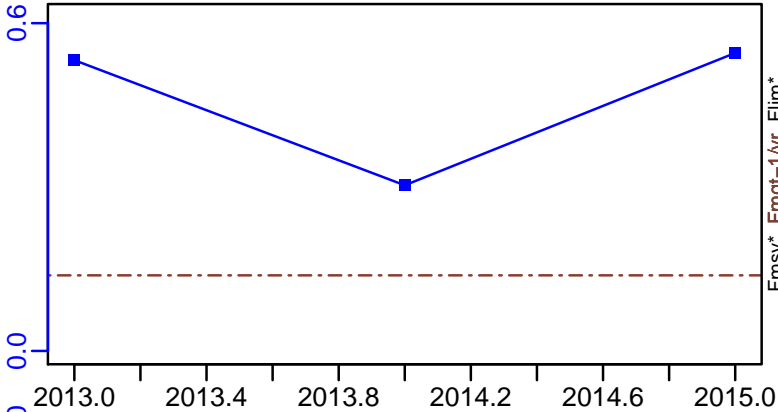
SSB-MT (2002–2015–OSIO)



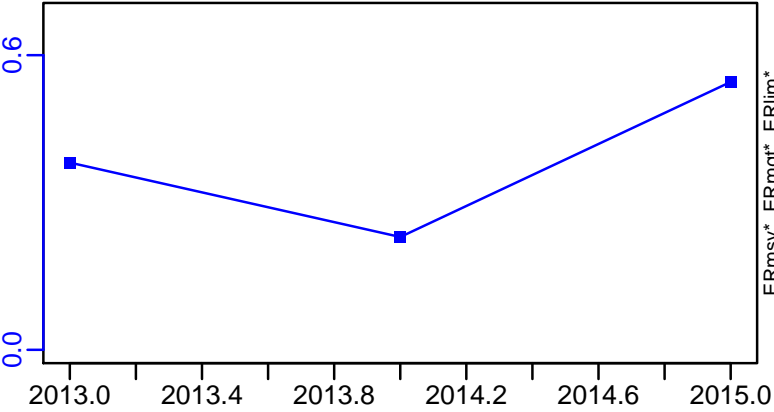
TN \*



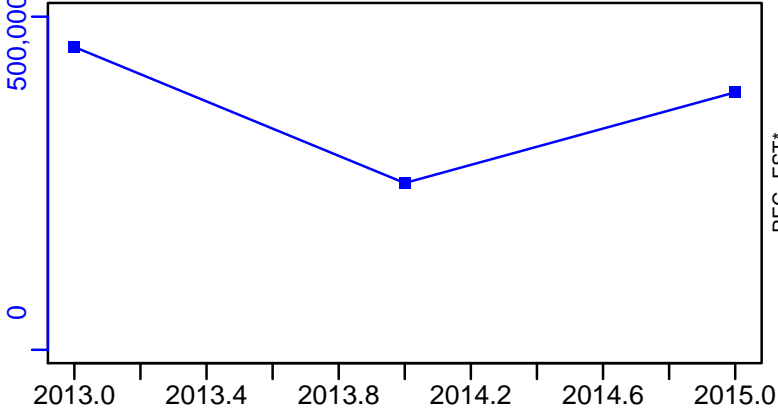
F-1/yr (2002–2015–OSIO)



ER-calc-ratio (2002–2015–OSIO)

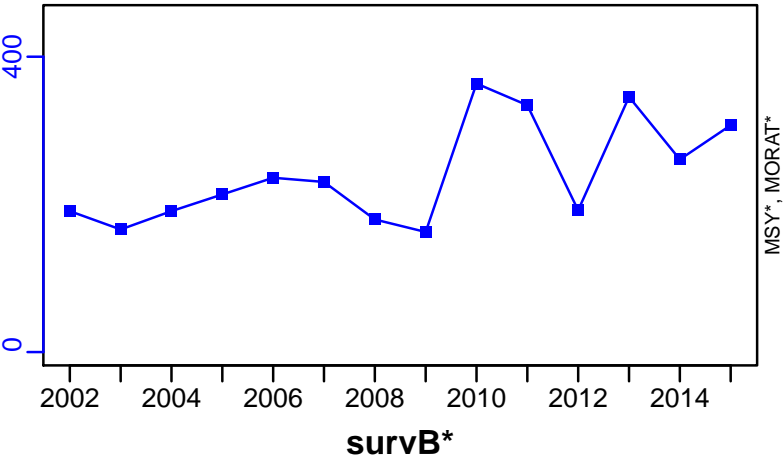


R-E00 (2002–2015–OSIO)



European seabass Gulf of Lions [EBASSGSA7]

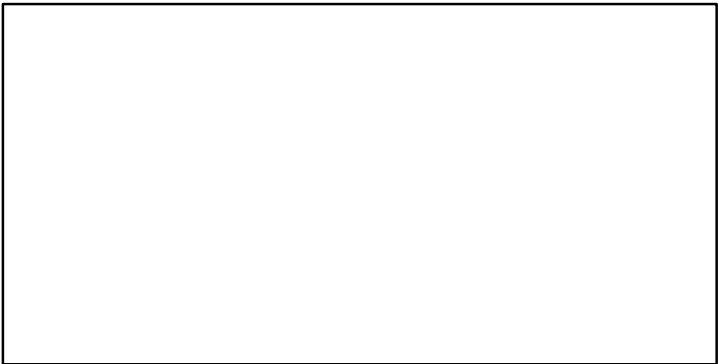
TL-MT, TC\*, RecC\* (2002-2015-OSIO)



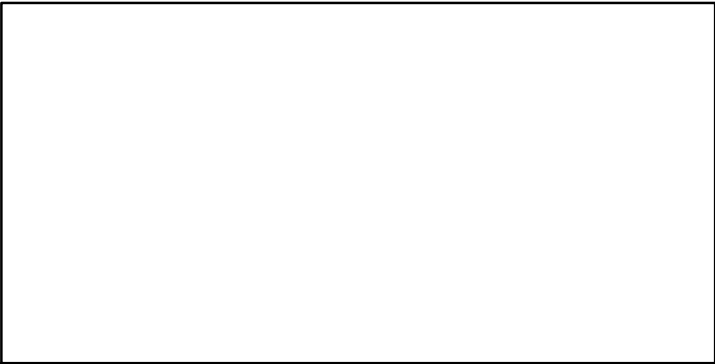
TAC\*, Cpair\*, Cadv\*



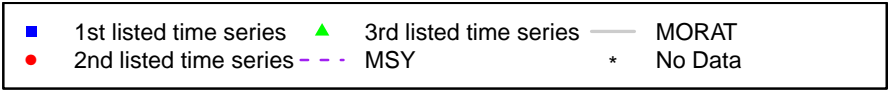
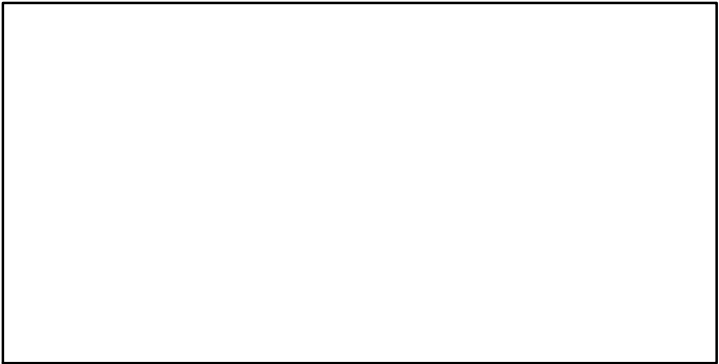
CPUE\*



EFFORT\*



CdivMSY\*



## Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

Metadata	
<b>Scientific Name</b>	Phycis blennoides
<b>Current Assess ID</b>	STECF-GFORKBMEDGSA9-2007-2011-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.32
ERmgt	-	-	-
TB0	-	-	-
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	2011	41		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



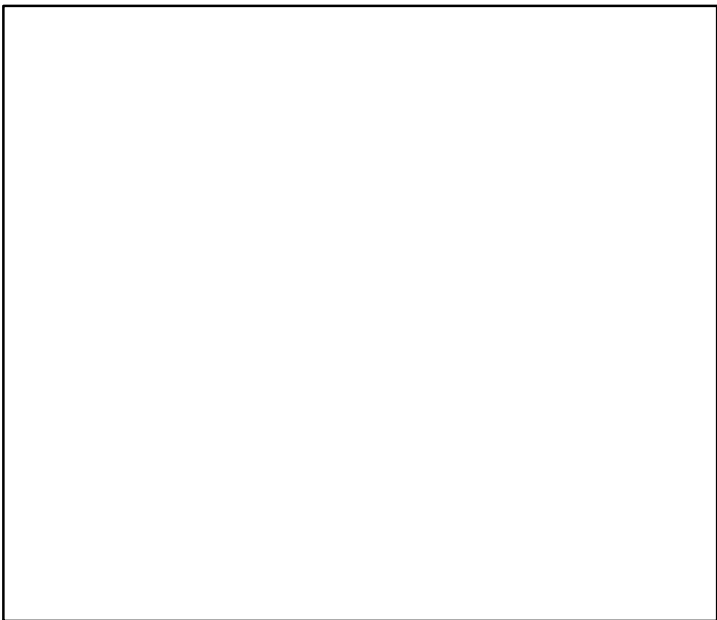
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



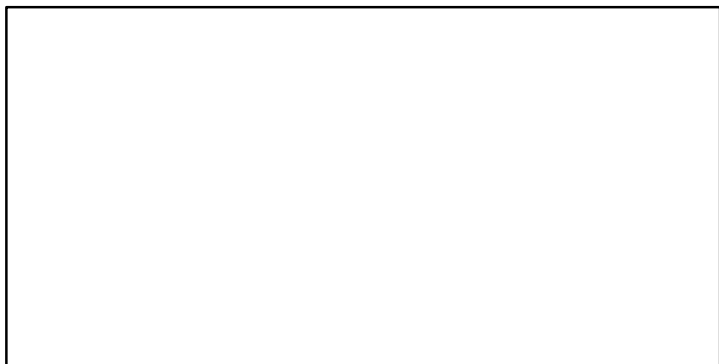
Production\*



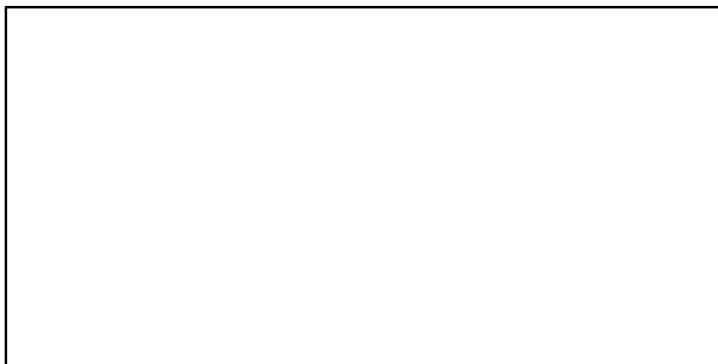
◆ Start Year ◆ End Year \* No Data

Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

**TB\***



**SSB\***



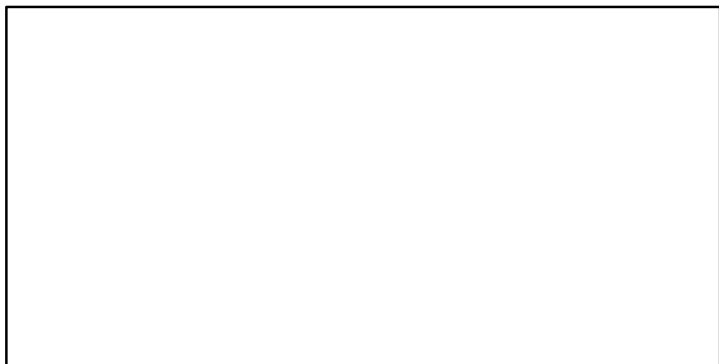
**TN \***



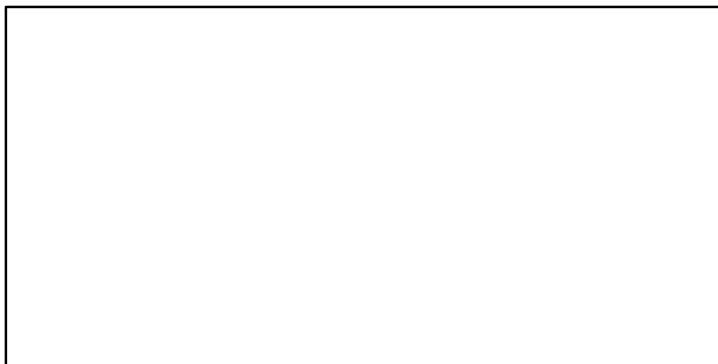
**F\***



**ER\***

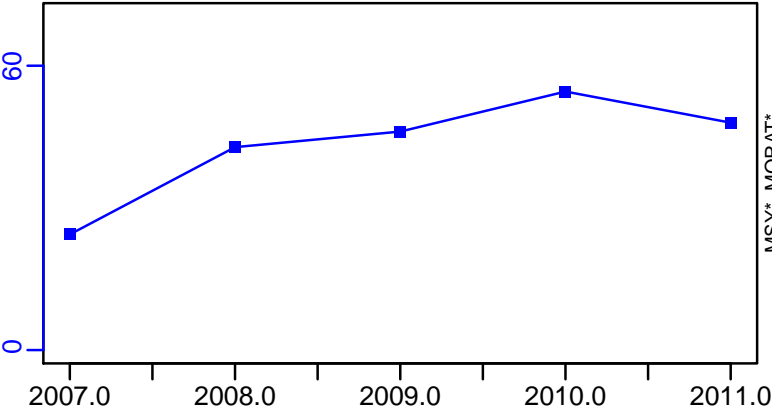


**Recruits\***

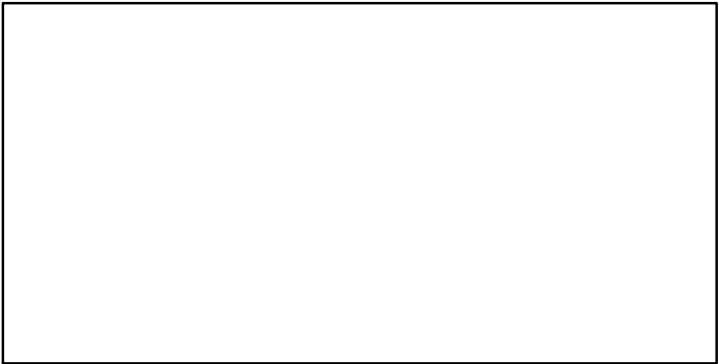


Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

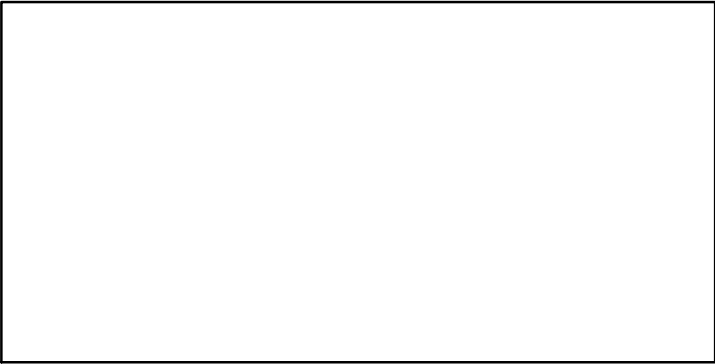
TC-MT, TL\*, RecC\* (2007-2011-OSIO)



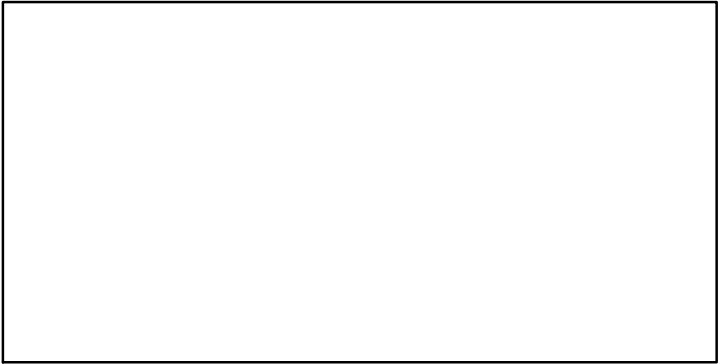
TAC\*, Cpair\*, Cadv\*



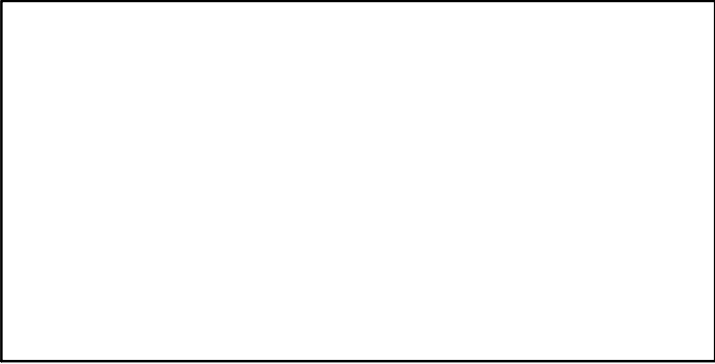
survB\*



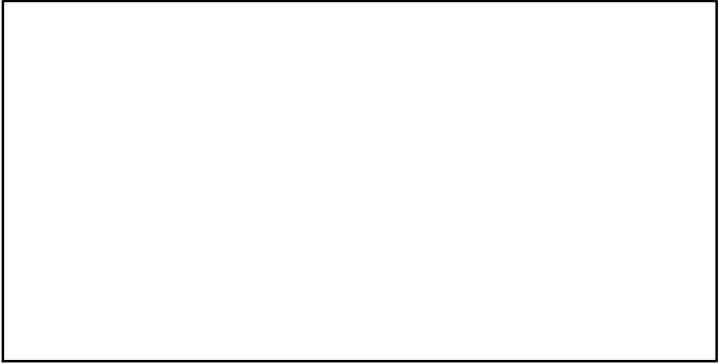
CPUE\*



EFFORT\*



CdivMSY\*

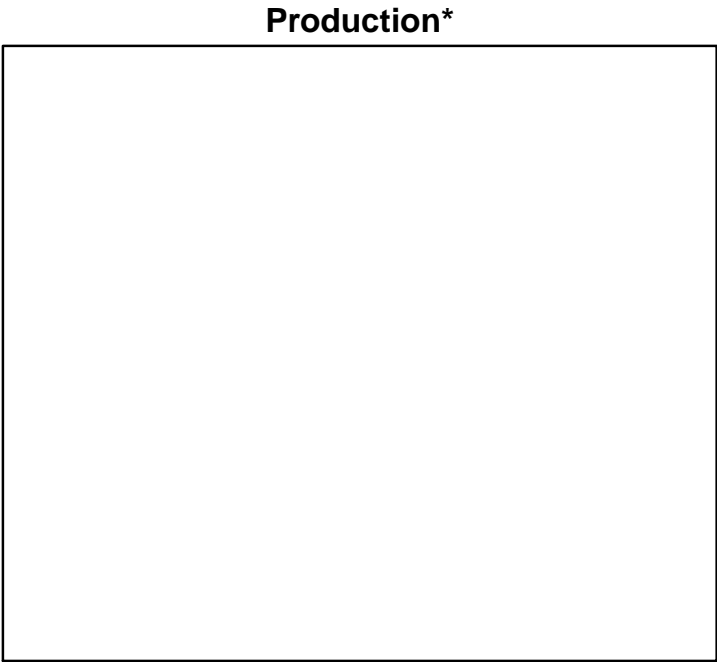
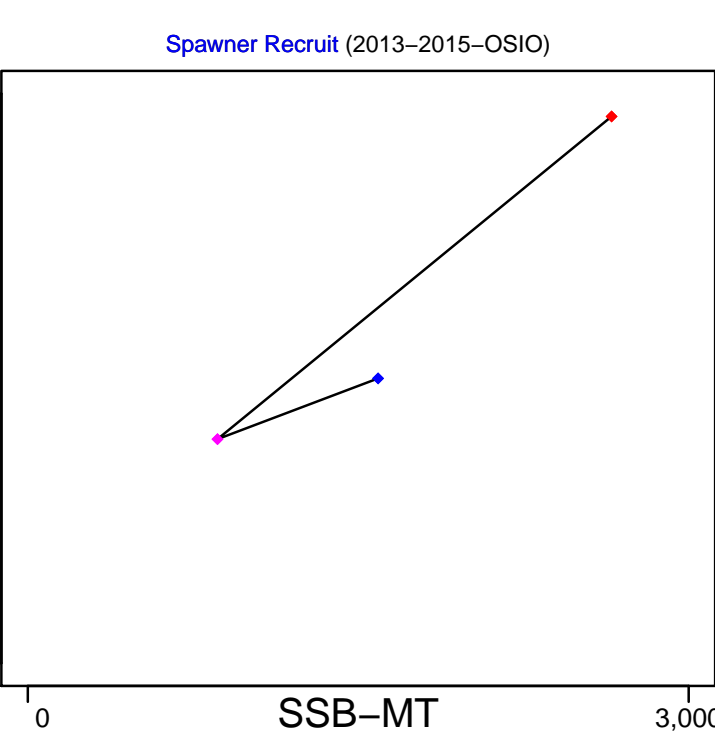


## Gilthead seabream Gulf of Lions [GHBRMGSA7]

Metadata	
<b>Scientific Name</b>	Sparus aurata
<b>Current Assess ID</b>	STECF-GHBRMGSA7-2013-2015-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.19
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	2650	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$5.76 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2015	0.45	-	-
<b>ER</b>	ER-calc-ratio	2015	0.256	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	1700		
<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>	F-1/yr/Fmgt-1/yr	2015	2.368		
<b>ER/ERmgt</b>	-	-	-		



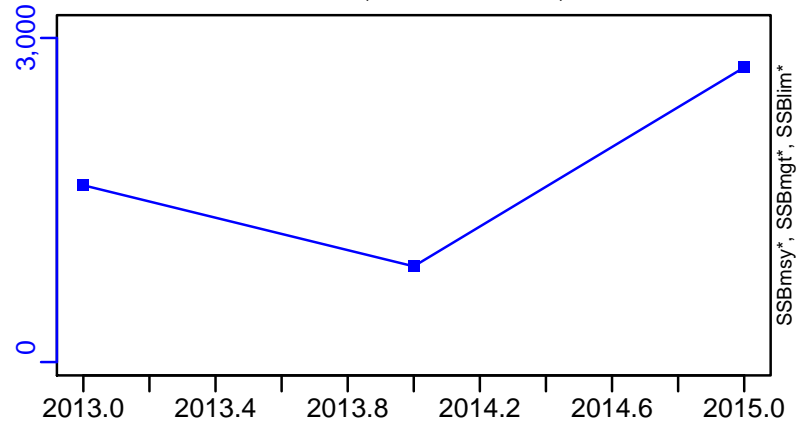
◆ Start Year ◆ End Year \* No Data

# Gilthead seabream Gulf of Lions [GHBRMGSA7]

TB\*



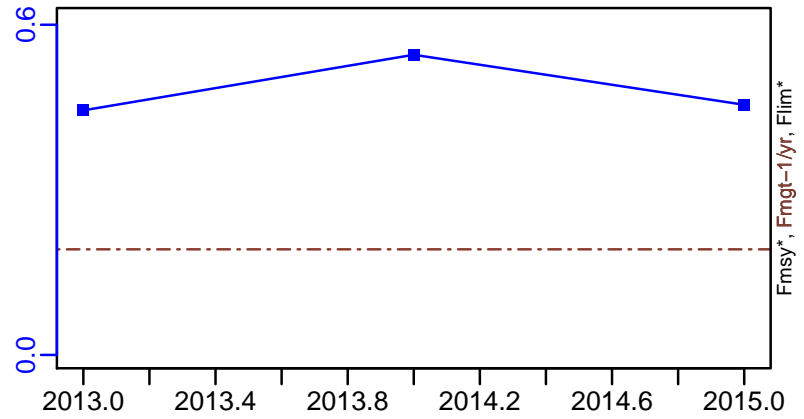
SSB-MT (2013–2015–OSIO)



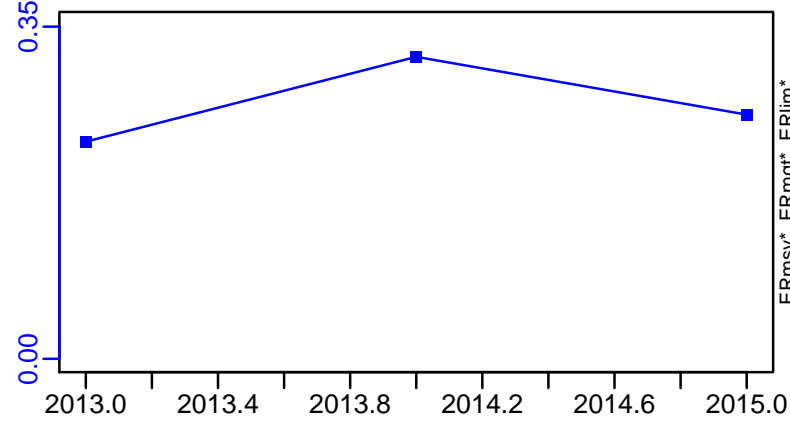
TN \*



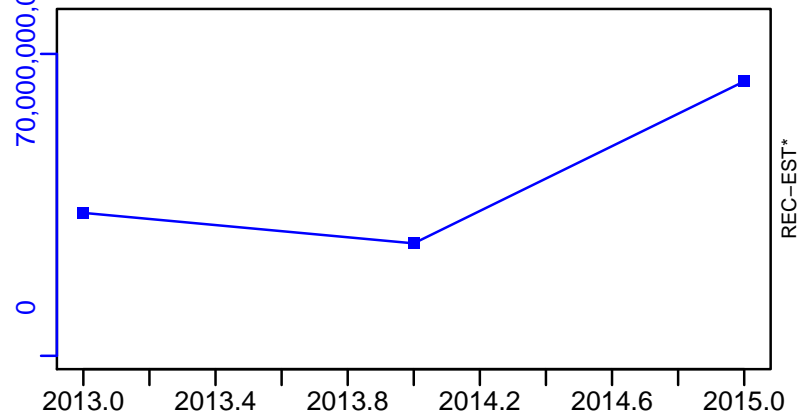
F-1/yr (2013–2015–OSIO)



ER-calc-ratio (2013–2015–OSIO)

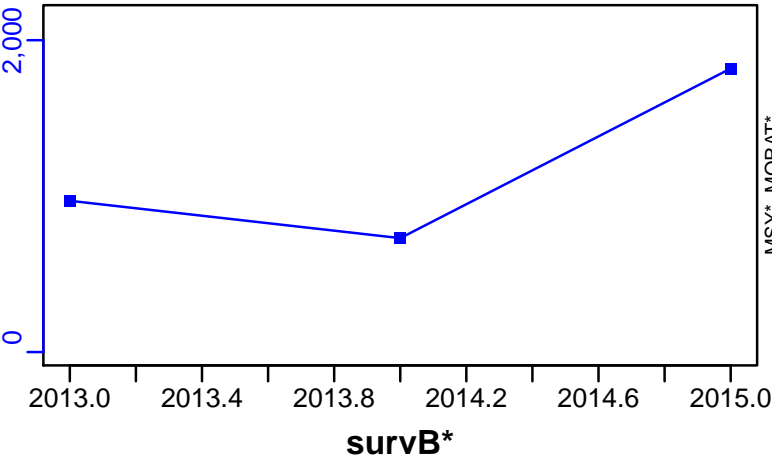


R-E00 (2013–2015–OSIO)



Gilthead seabream Gulf of Lions [GHBRMGSA7]

TL-MT, TC\*, RecC\* (2013-2015-OSIO)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

Metadata	
<b>Scientific Name</b>	Aristaeomorpha foliacea
<b>Current Assess ID</b>	STECF-GRSHRIMPEDGSA10-2006-2014-OSIO
<b>Area</b>	South Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

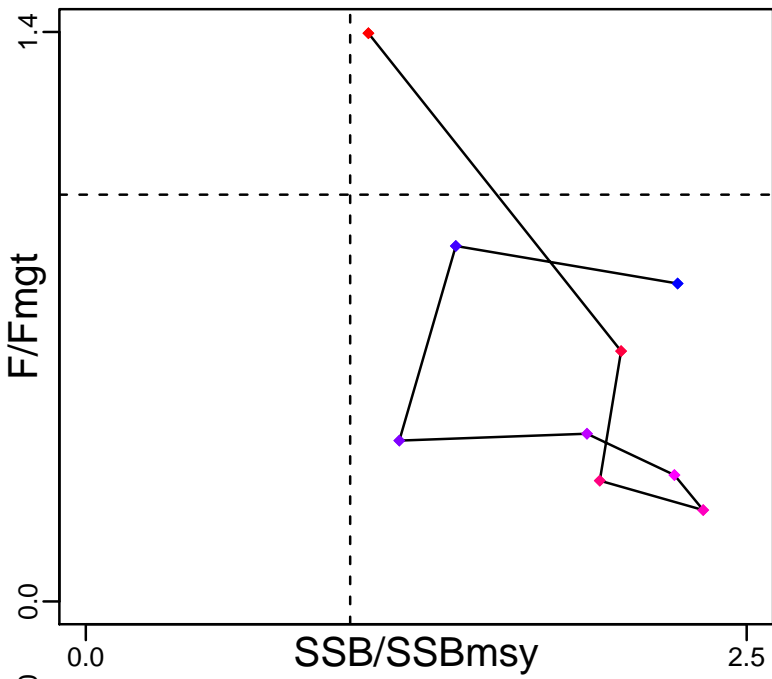
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	248
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.568
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.65
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	503
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	265
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	265	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.68 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	0.908	-	-
<b>ER</b>	ER-calc-ratio	2014	0.48	-	-
<b>TC</b>	TC-MT	2014	454		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.069		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.844		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.397		
<b>ER/ERmgt</b>	-	-	-		

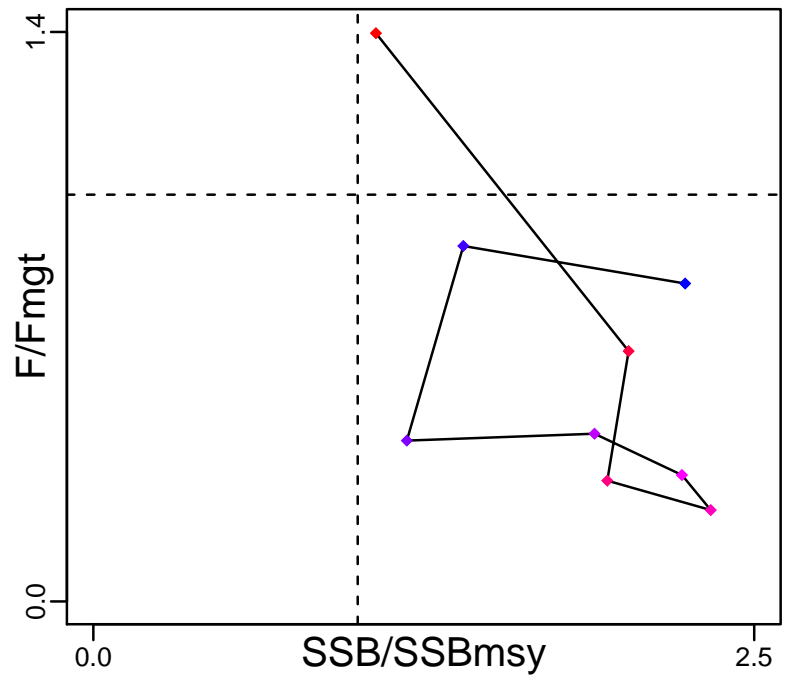


# Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

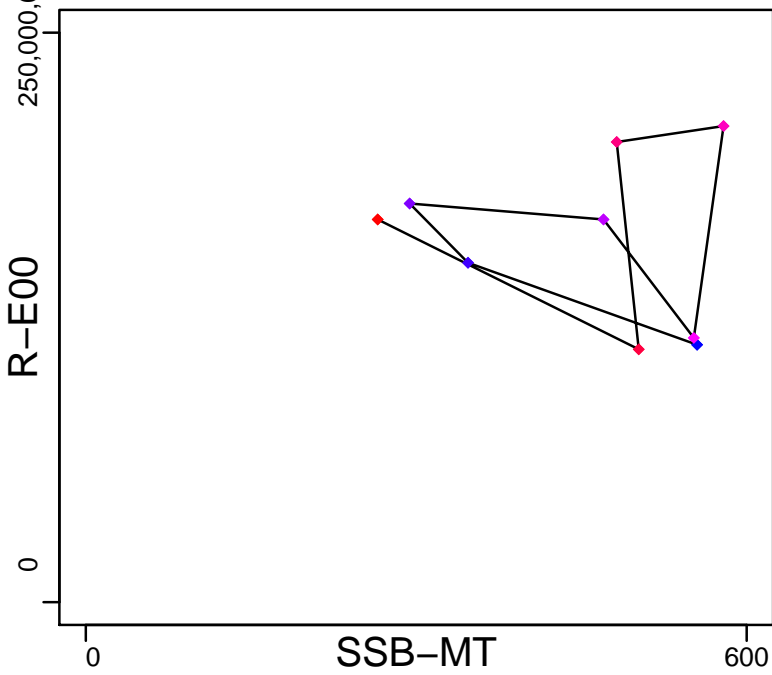
Kobe MSYpref (2006–2014–OSIO)



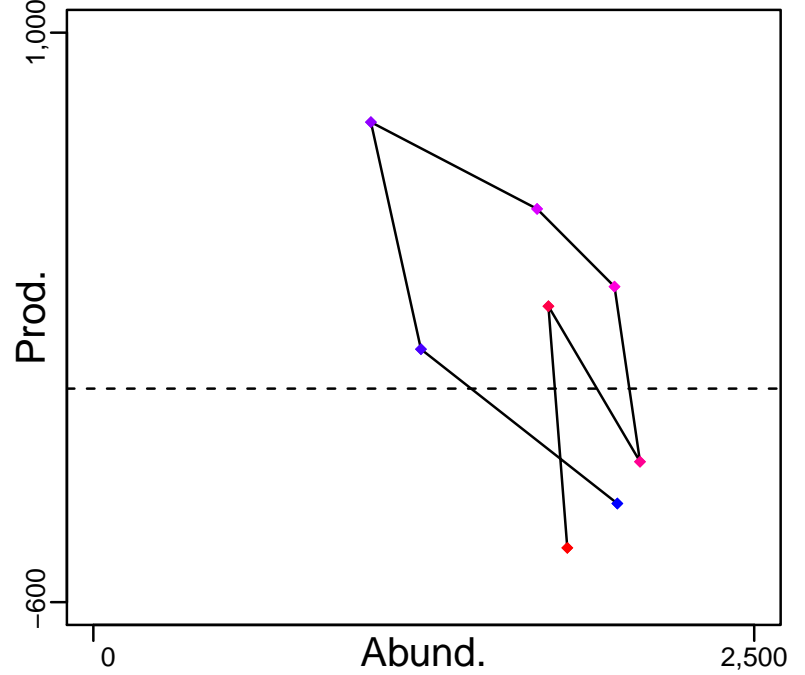
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



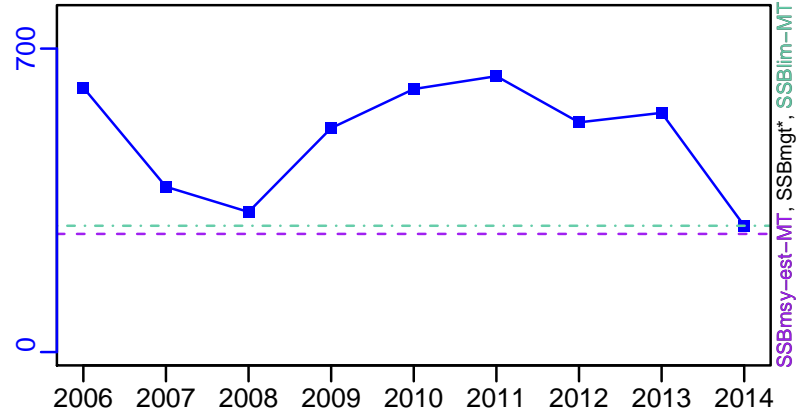
◆ Start Year ◆ End Year \* No Data

# Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

TB\*



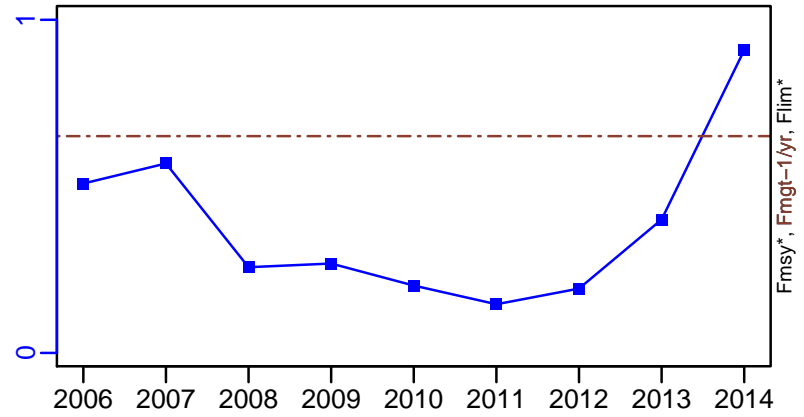
SSB-MT (2006–2014–OSIO)



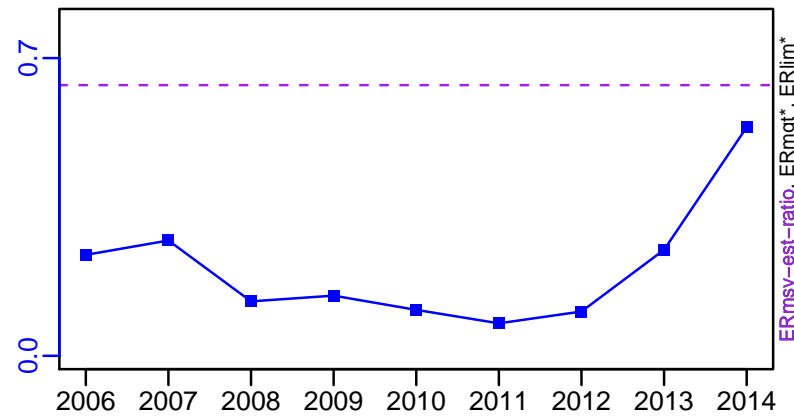
TN \*



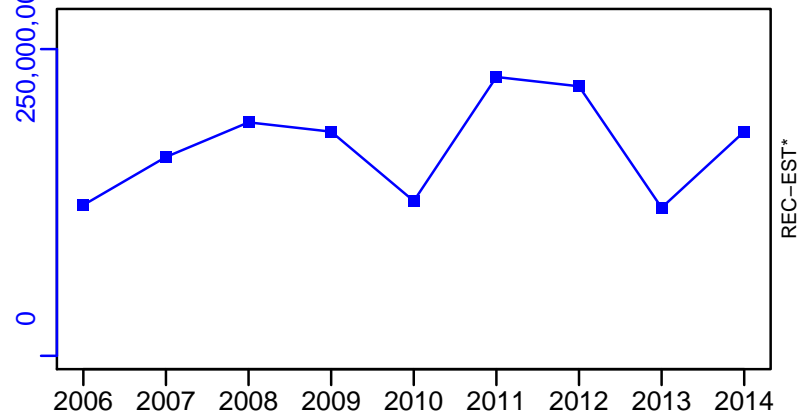
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

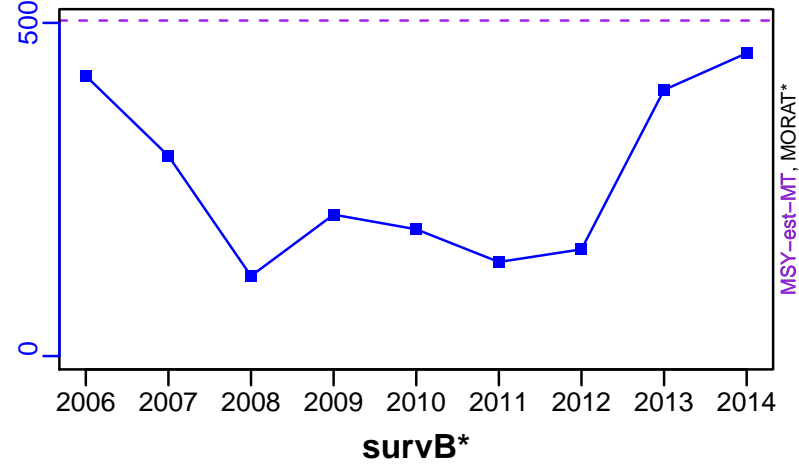


R-E00 (2006–2014–OSIO)



# Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

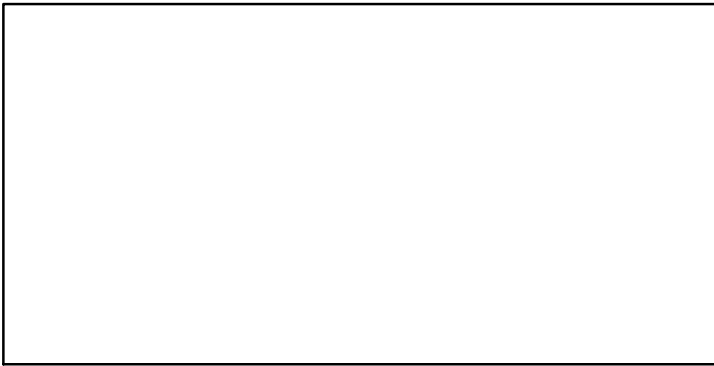
TC-MT, TL\*, RecC\* (2006–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



survB\*



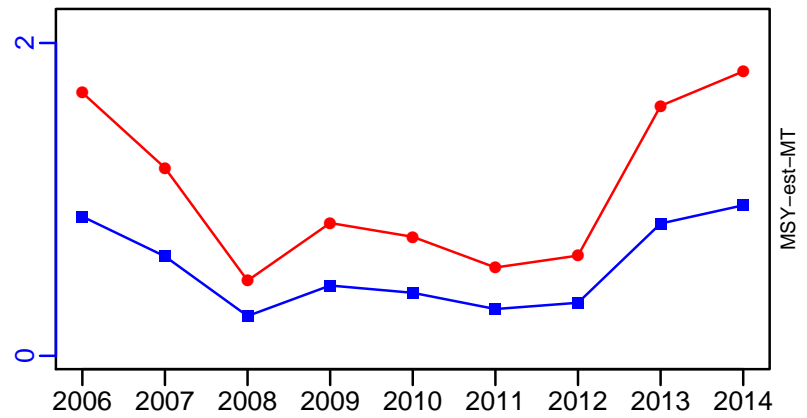
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2014–OSIO)



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

## Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

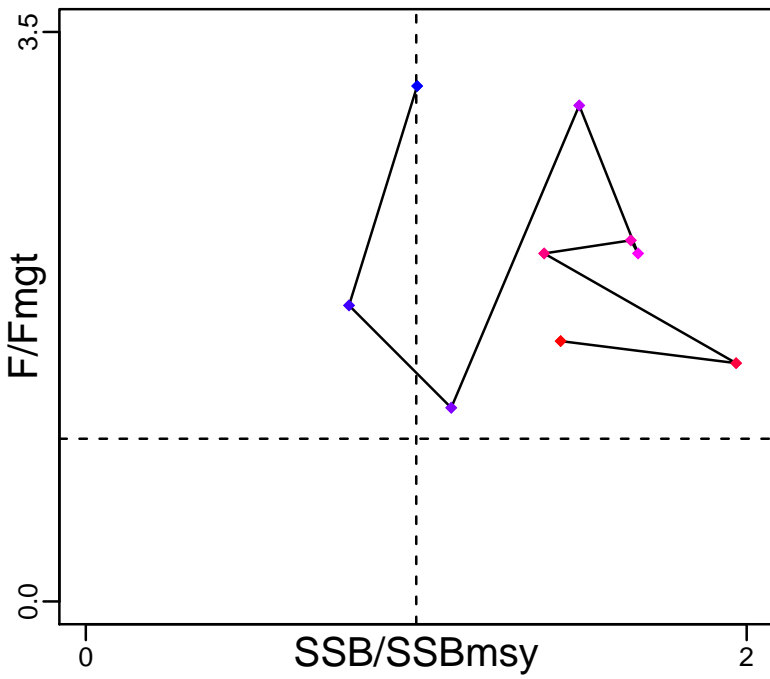
Metadata	
<b>Scientific Name</b>	Aristaeomorpha foliacea
<b>Current Assess ID</b>	STECF-GRSHRIMPEDGSA11-2006-2014-OSIO
<b>Area</b>	Sardinia
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	32
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.746
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.31
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	87
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	26
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

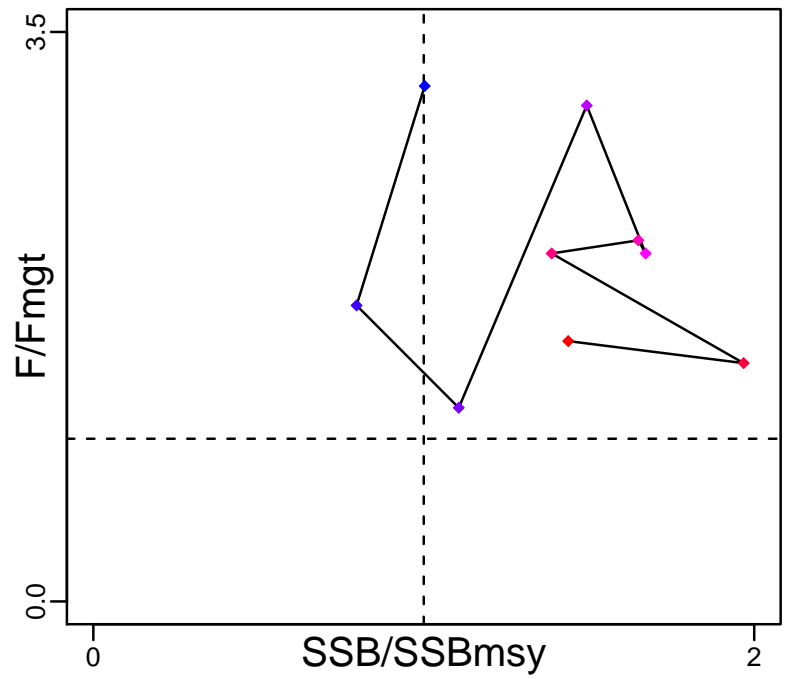
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	46	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	18,200,000	-	-
<b>F</b>	F-1/yr	2014	0.496	-	-
<b>ER</b>	ER-calc-ratio	2014	0.294	-	-
<b>TC</b>	TC-MT	2014	49		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.437		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.395		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.6		
<b>ER/ERmgt</b>	-	-	-		

# Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

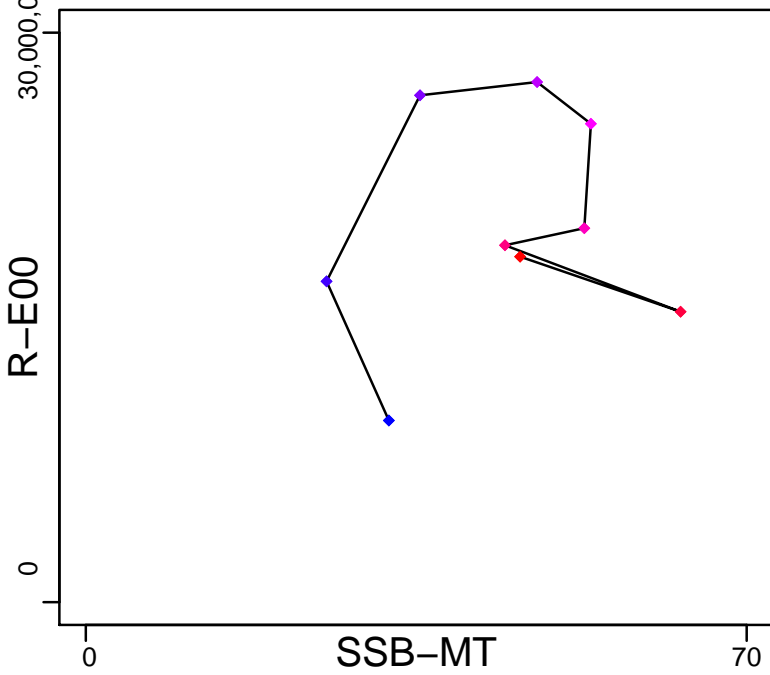
Kobe MSYpref (2006–2014–OSIO)



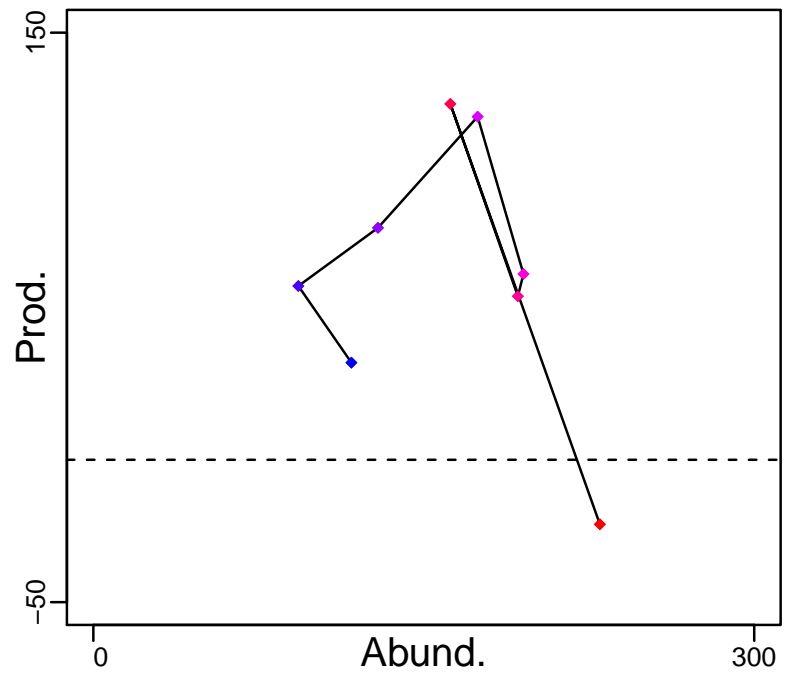
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



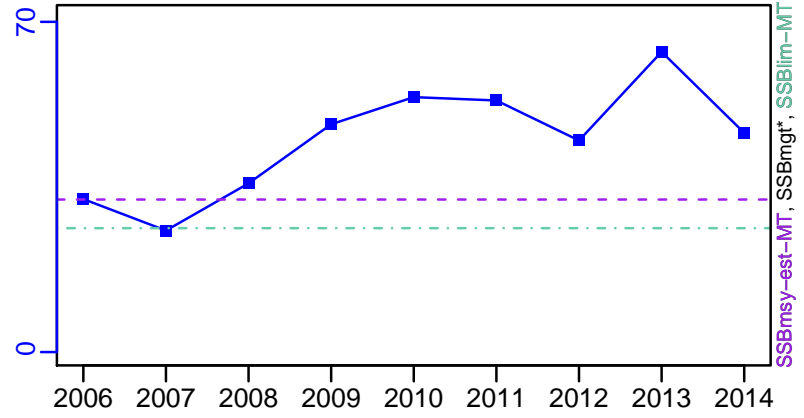
◆ Start Year ◆ End Year \* No Data

# Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

TB\*



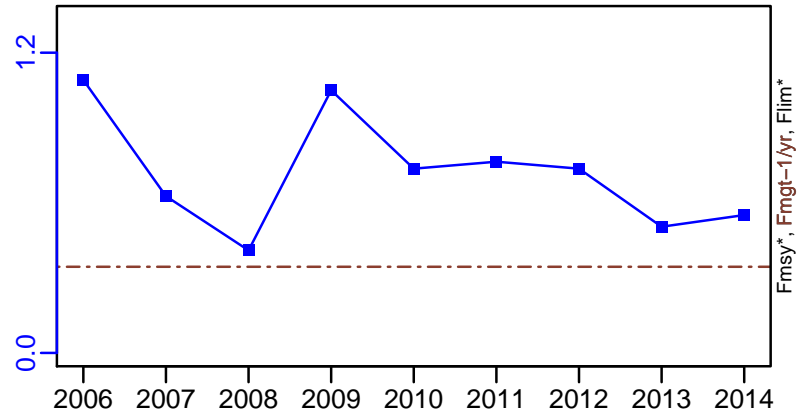
SSB-MT (2006–2014–OSIO)



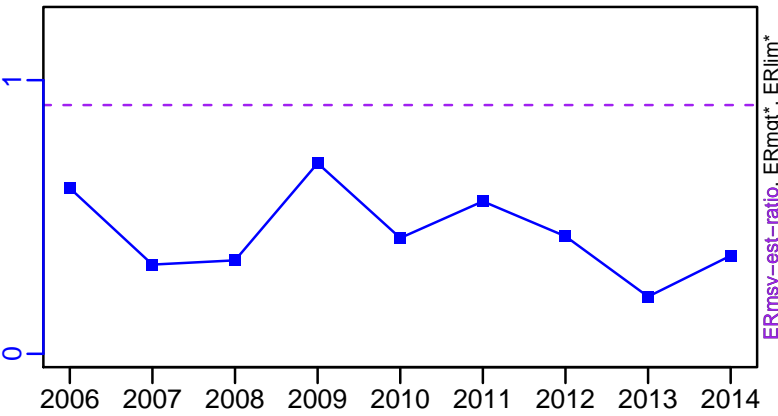
TN \*



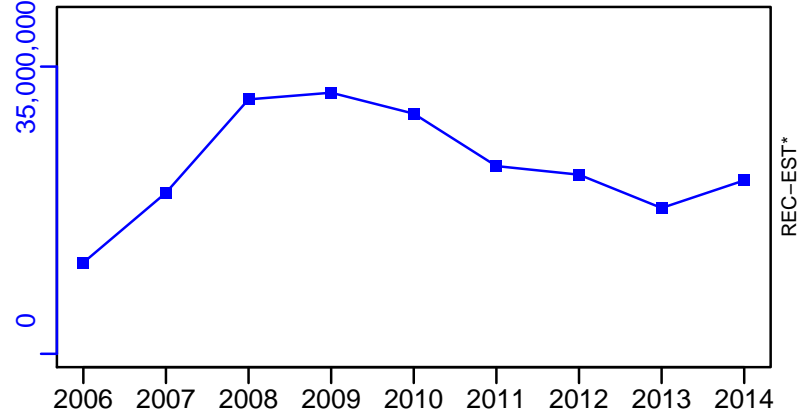
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

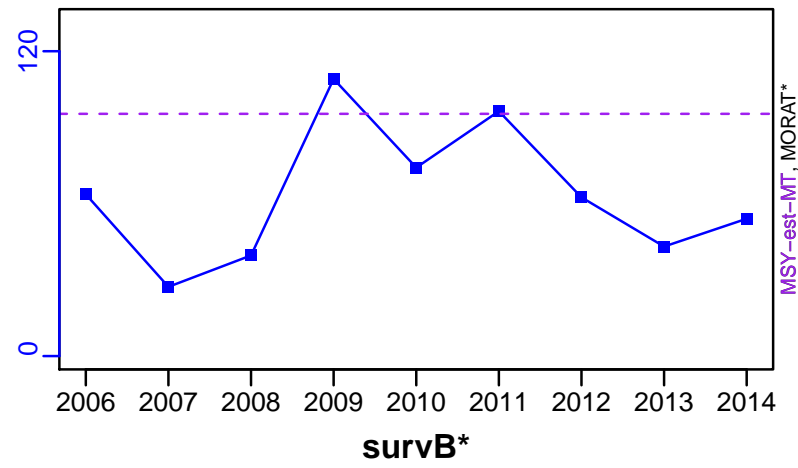


R-E00 (2006–2014–OSIO)



# Giant red shrimp Sardinia [GRSHRIMP MEDGSA11]

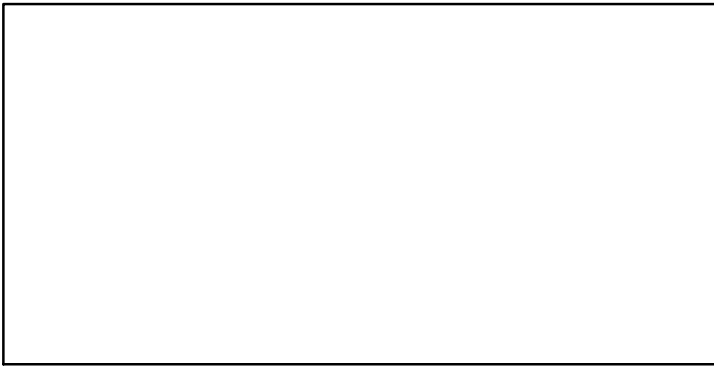
TC-MT, TL\*, RecC\* (2006–2014–OSIO)



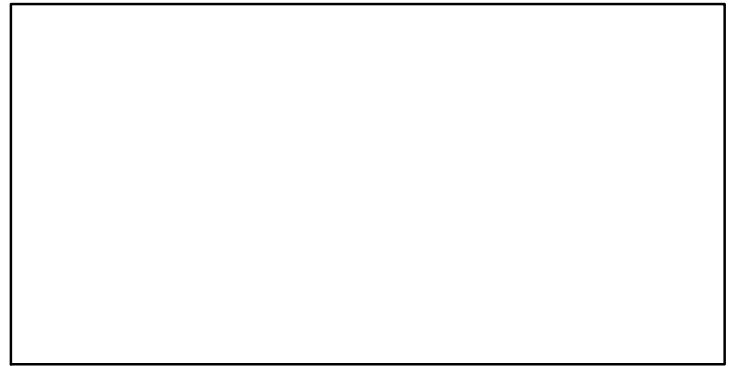
TAC\*, Cpair\*, Cadv\*



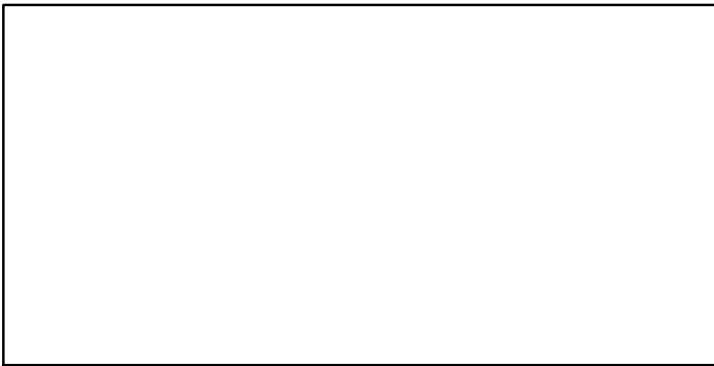
survB\*



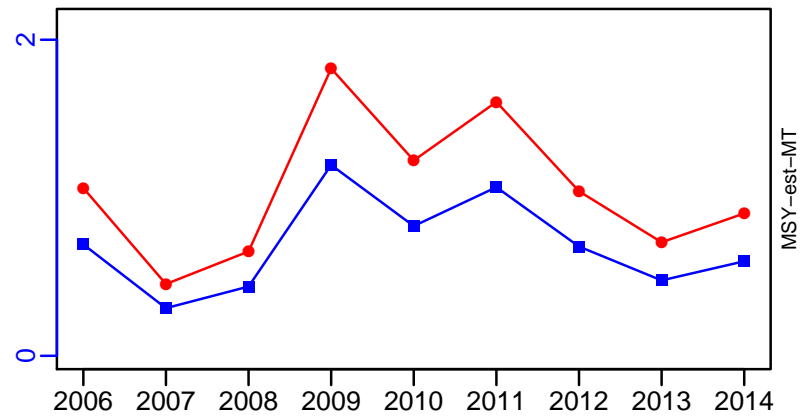
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2014–OSIO)



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

## Giant red shrimp Geographical Sub-Areas 12-16 [GRSHRIMPEDGSA12-16]

Metadata	
<b>Scientific Name</b>	Aristaeomorpha foliacea
<b>Current Assess ID</b>	STECF-GRSHRIMPEDGSA12-16-2005-2011-OSIO
<b>Area</b>	Geographical Sub-Areas 12-16
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

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>	Fmgt-1/yr	2011	0.3
<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>	-	-	-

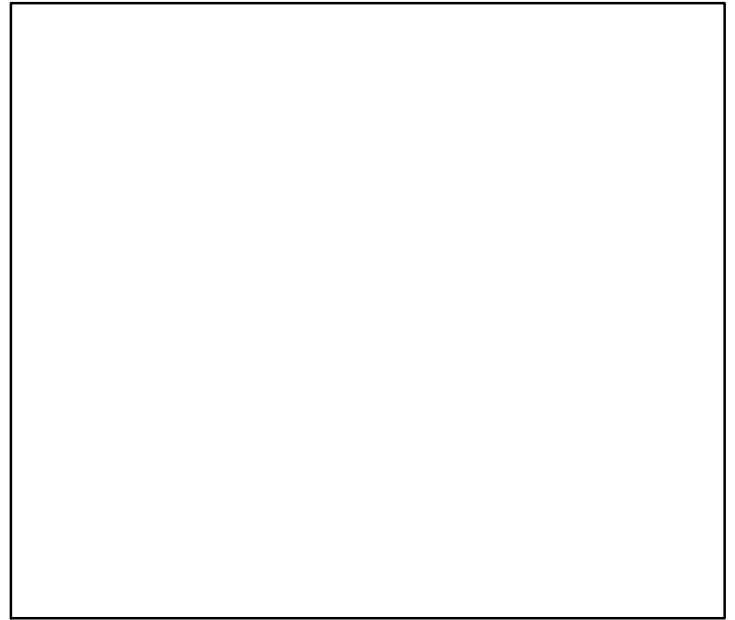
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	1250	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	84,400,000	-	-
<b>F</b>	F-1/yr	2011	1.67	-	-
<b>ER</b>	ER-calc-ratio	2011	0.319	-	-
<b>TC</b>	TC-MT	2011	1590		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	5.567		
<b>ER/ERmgt</b>	-	-	-		



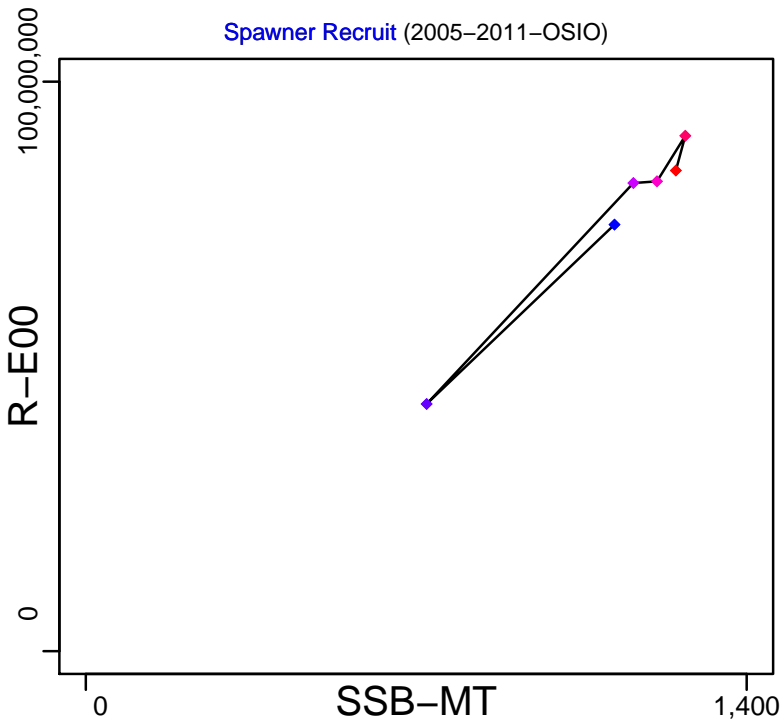
Kobe MSY\*



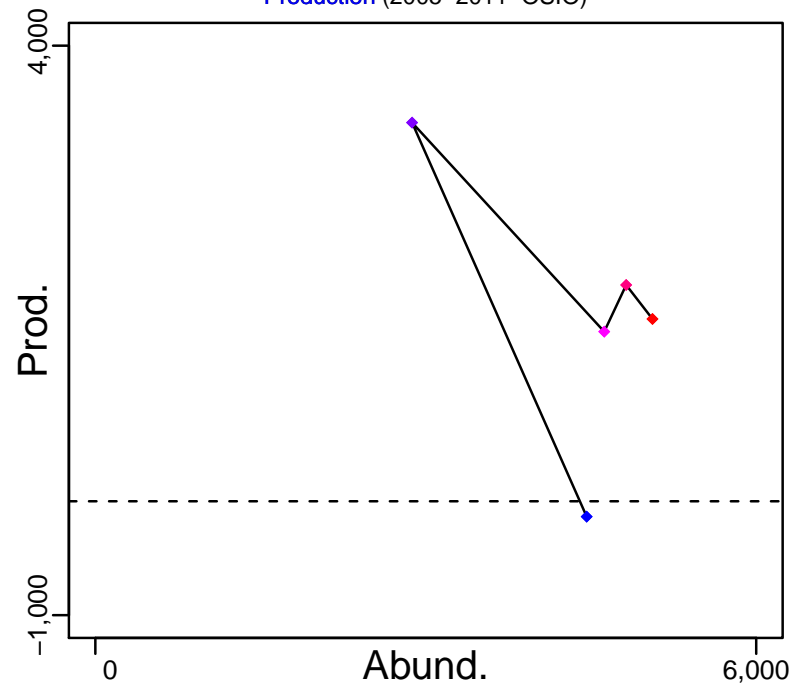
Kobe MGT\*



Spawner Recruit (2005–2011–OSIO)



Production (2005–2011–OSIO)



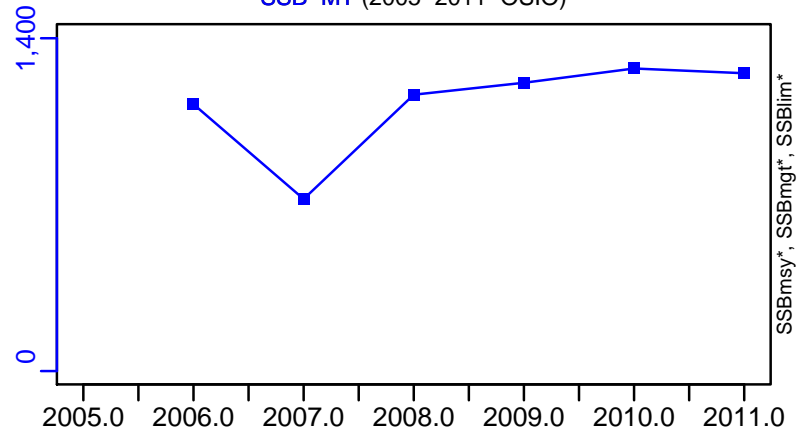
◆ Start Year ◆ End Year \* No Data

Giant red shrimp Geographical Sub-Areas 12–16 [GRSHRIMPEDGSA12–16]

TB\*



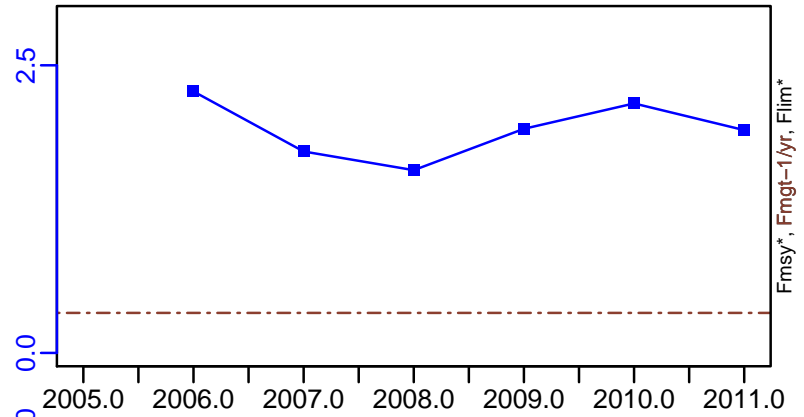
SSB-MT (2005–2011–OSIO)



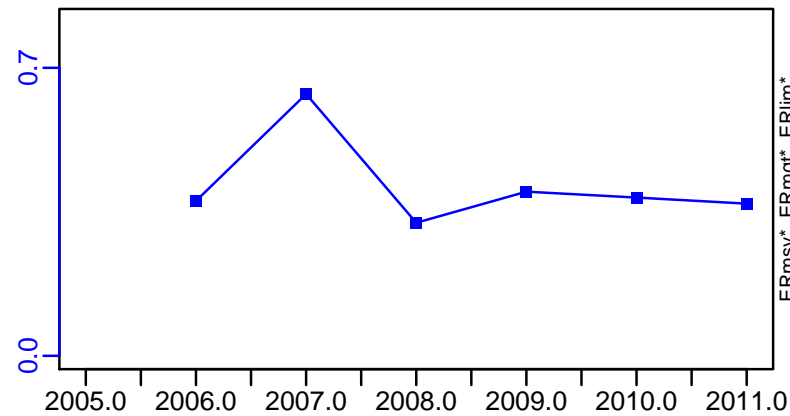
TN \*



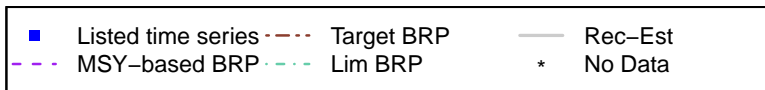
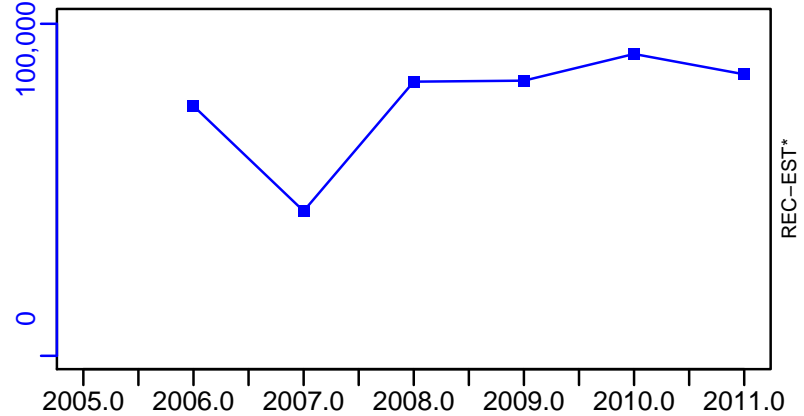
F-1/yr (2005–2011–OSIO)



ER-calc-ratio (2005–2011–OSIO)

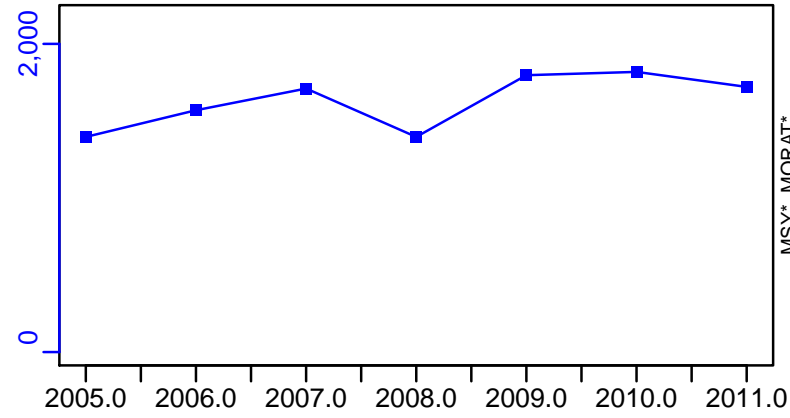


R-E00 (2005–2011–OSIO)



# Giant red shrimp Geographical Sub-Areas 12–16 [GRSHRIMPEDGSA12–16]

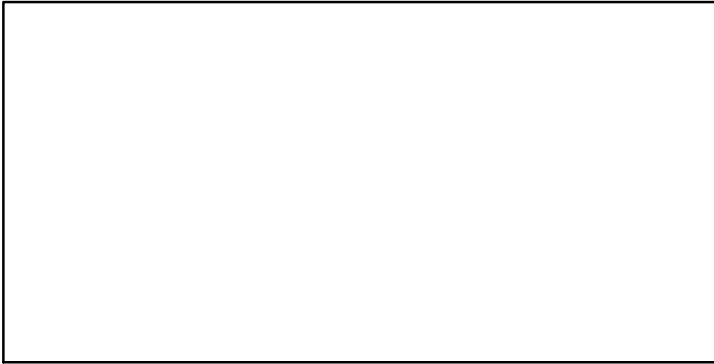
TC–MT, TL\*, RecC\* (2005–2011–OSIO)



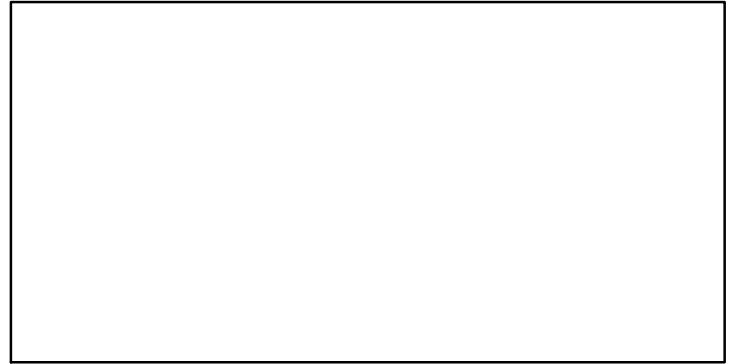
TAC\*, Cpair\*, Cadv\*



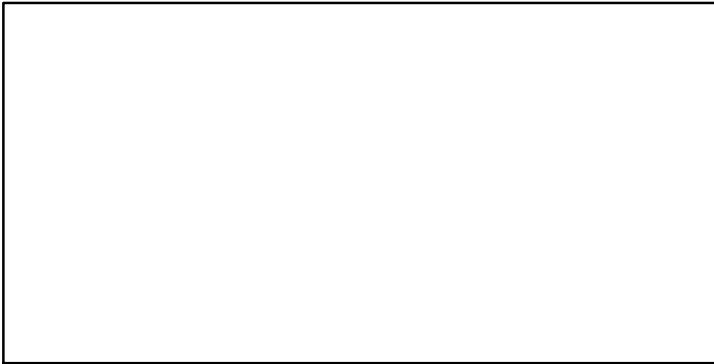
survB\*



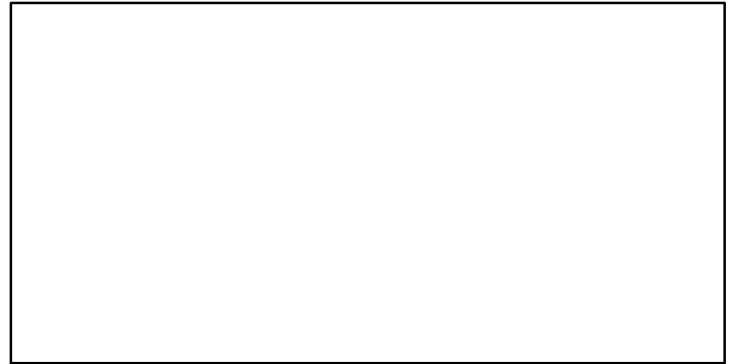
CPUE\*



EFFORT\*



CdivMSY\*



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

**Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19)**  
**[GRSHRIMPEDGSA18-19]**

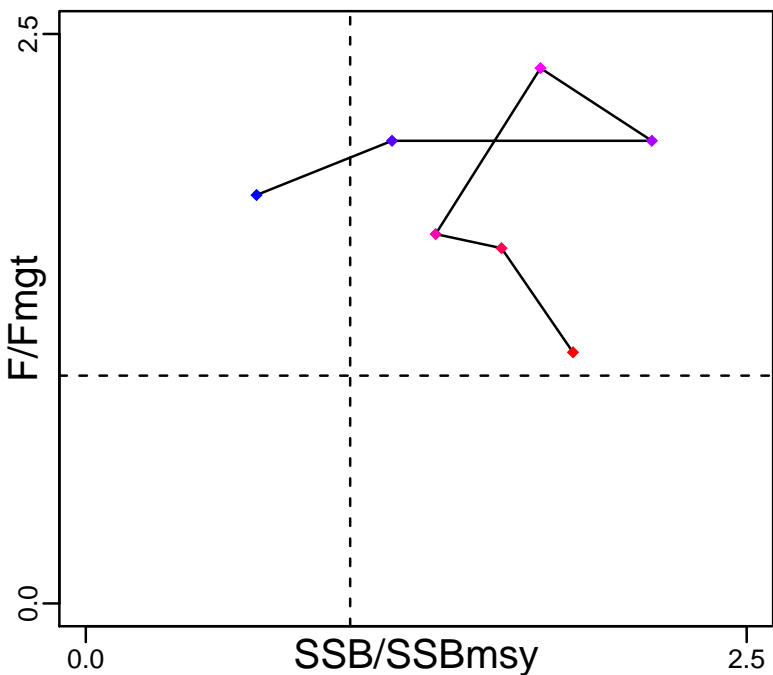
Metadata	
<b>Scientific Name</b>	Aristaeomorpha foliacea
<b>Current Assess ID</b>	STECF-GRSHRIMPEDGSA18-19-2008-2014-OSIO
<b>Area</b>	South Adriatic Sea and West Ionian Sea (GSA 18,19)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	285
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.819
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.42
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	929
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

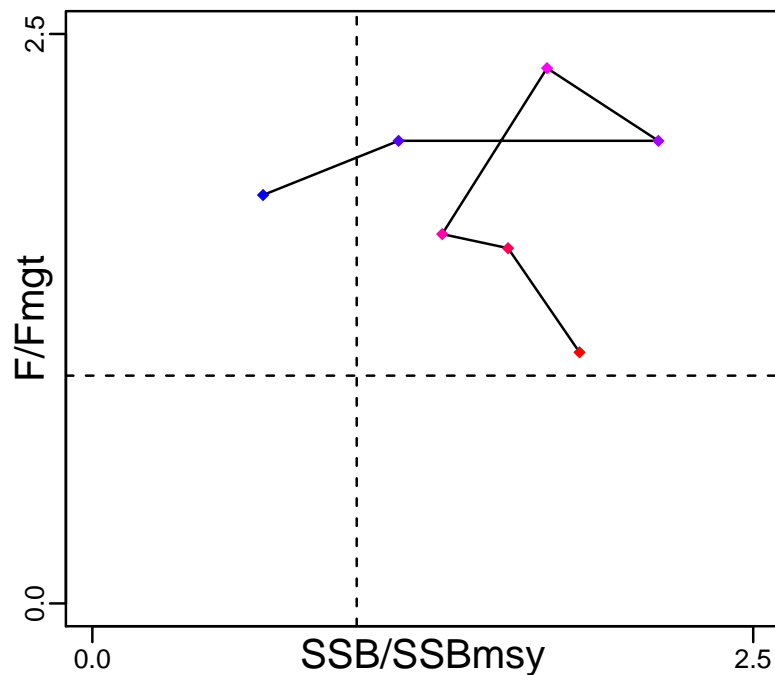
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	525	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	30,200,000	-	-
<b>F</b>	F-1/yr	2014	0.463	-	-
<b>ER</b>	ER-calc-ratio	2014	0.157	-	-
<b>TC</b>	TC-MT	2014	328		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.843		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.192		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.102		
<b>ER/ERmgt</b>	-	-	-		

# Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19) [GRSHRIMPEDGSA18-19]

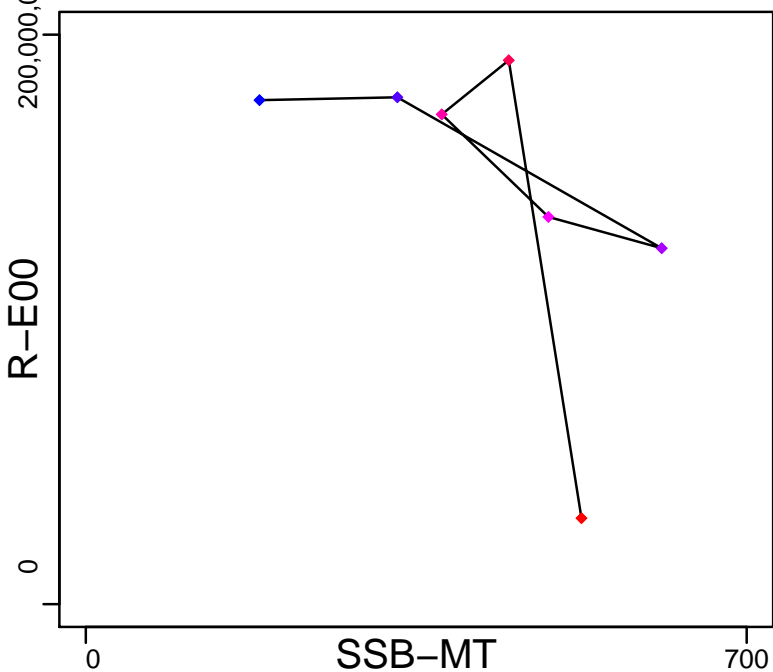
Kobe MSYpref (2008-2014-OSIO)



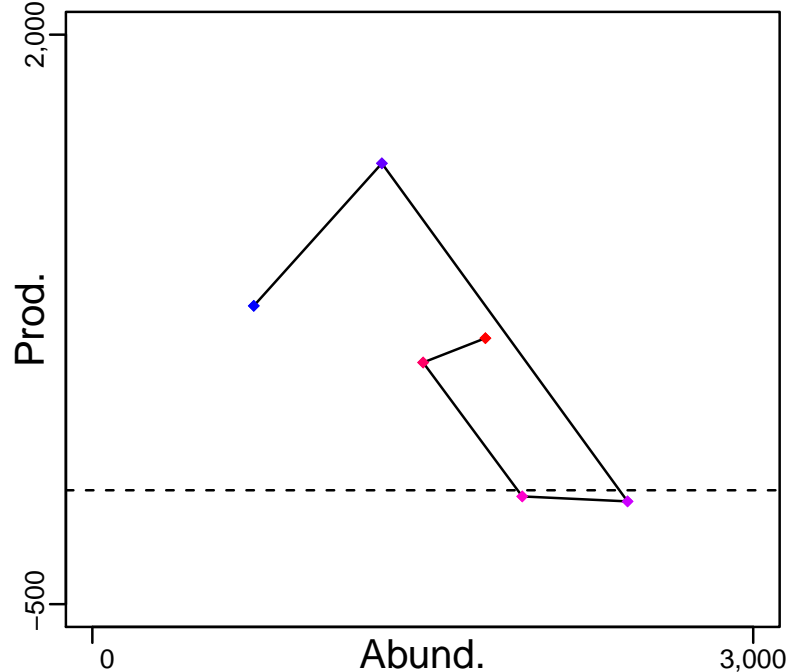
Kobe MGTpref (2008-2014-OSIO)



Spawner Recruit (2008-2014-OSIO)



Production (2008-2014-OSIO)



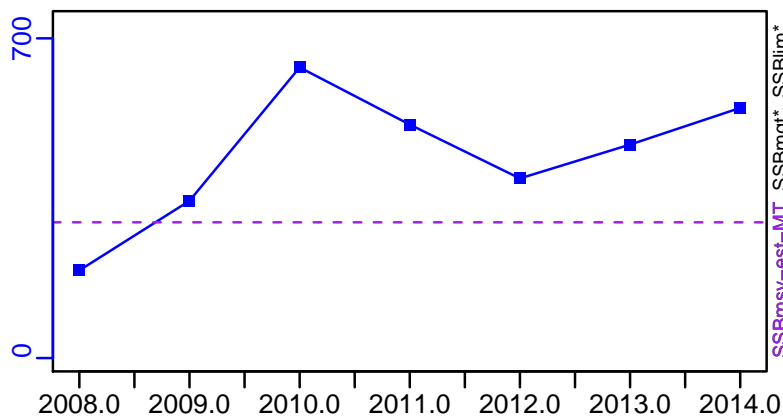
◆ Start Year ◆ End Year \* No Data

# Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19) [GRSHRIMPEDGSA18-19]

TB\*



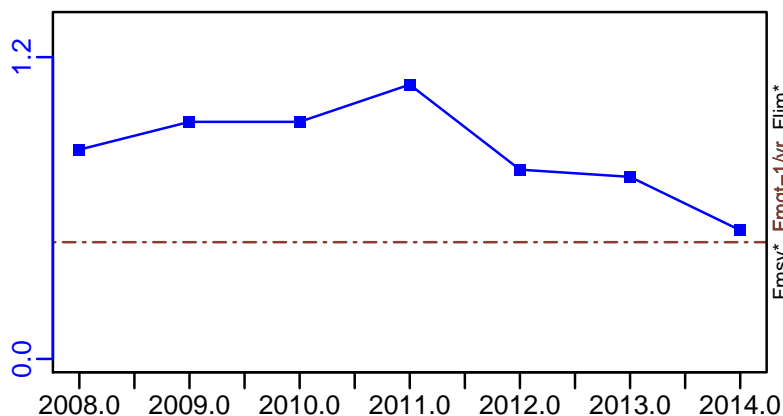
SSB-MT (2008-2014-OSIO)



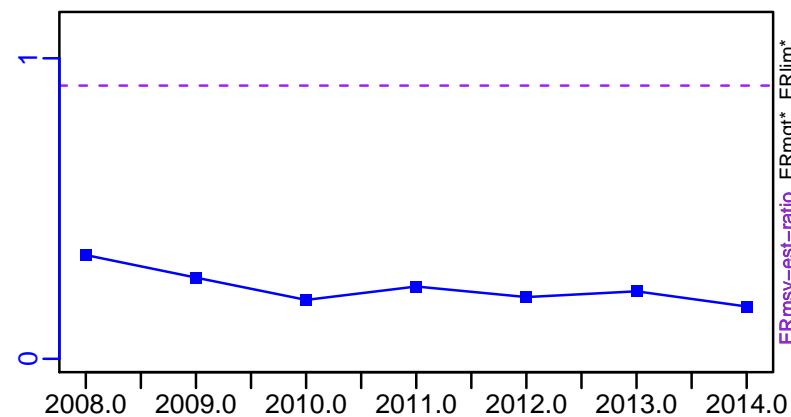
TN \*



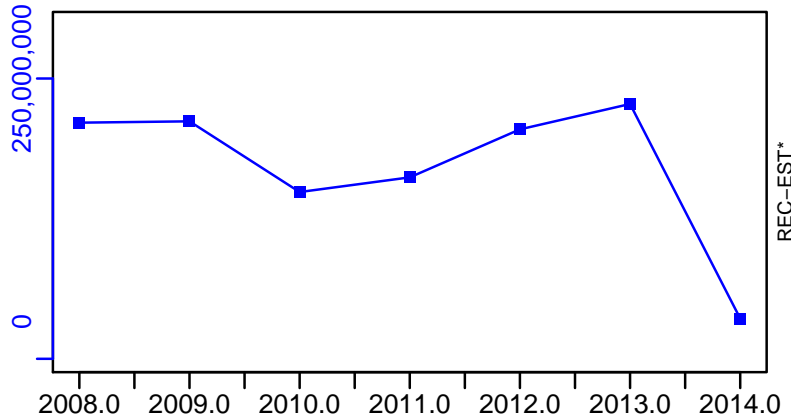
F-1/yr (2008-2014-OSIO)



ER-calc-ratio (2008-2014-OSIO)



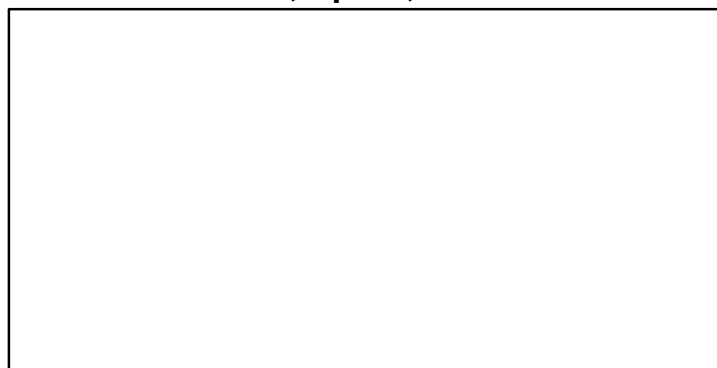
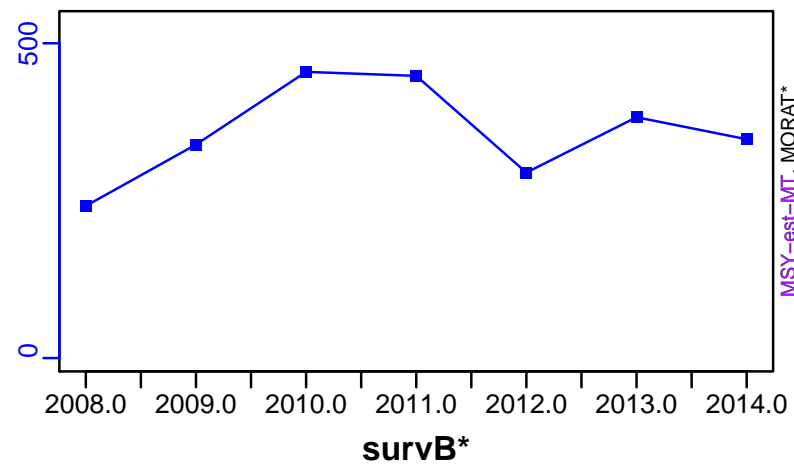
R-E00 (2008-2014-OSIO)



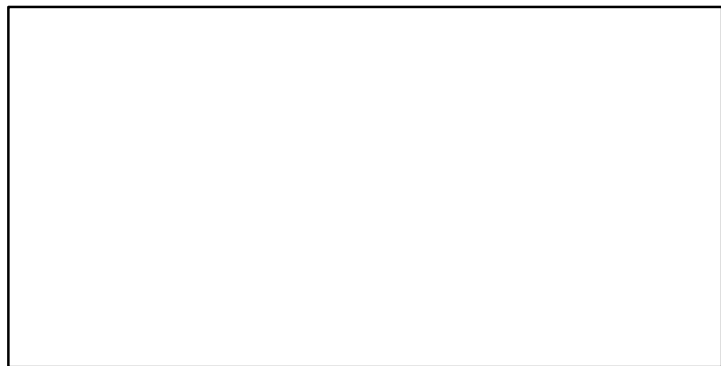
# Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19) [GRSHRIMPEDGSA18-19]

TC-MT, TL\*, RecC\* (2008-2014-OSIO)

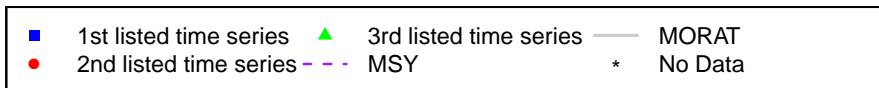
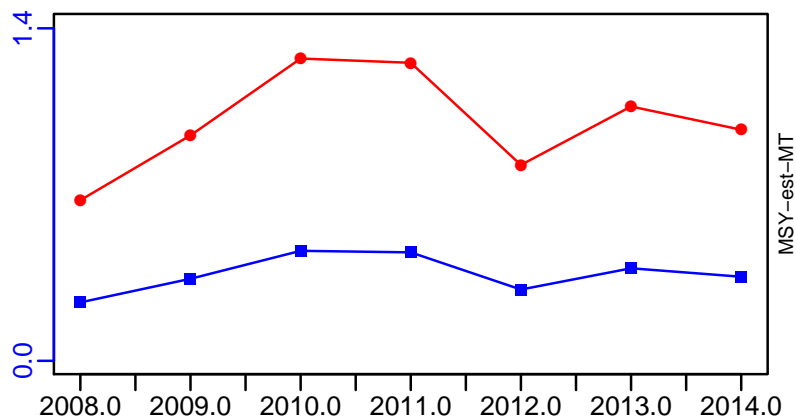
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2008-2014-OSIO)



## Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

Metadata	
<b>Scientific Name</b>	Aristaeomorpha foliacea
<b>Current Assess ID</b>	STECF-GRSHRIMPEDGSA9-2006-2014-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

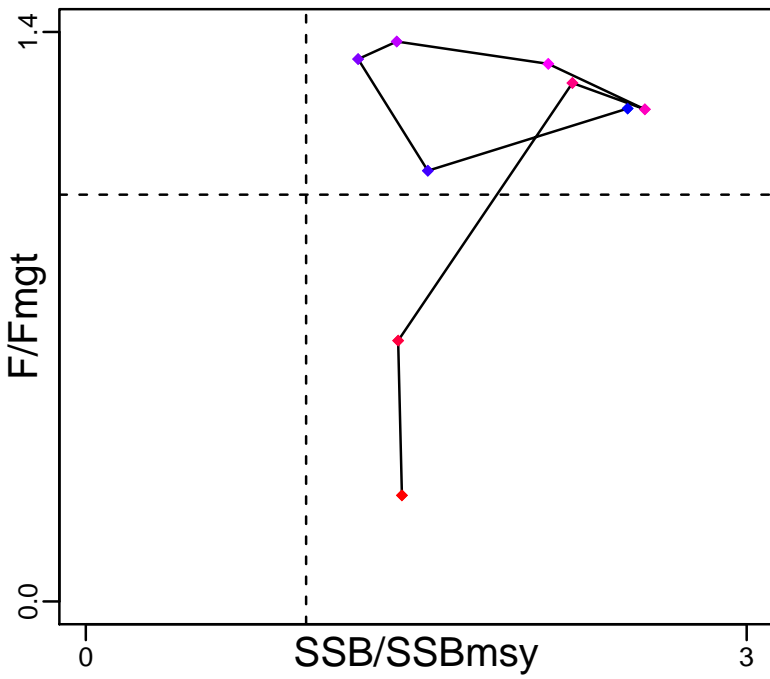
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	64
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.378
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.51
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	84
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	80
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	92	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	10,600,000	-	-
<b>F</b>	F-1/yr	2014	0.133	-	-
<b>ER</b>	ER-calc-ratio	2014	0.052	-	-
<b>TC</b>	TC-MT	2014	17		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.435		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.139		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.261		
<b>ER/ERmgt</b>	-	-	-		

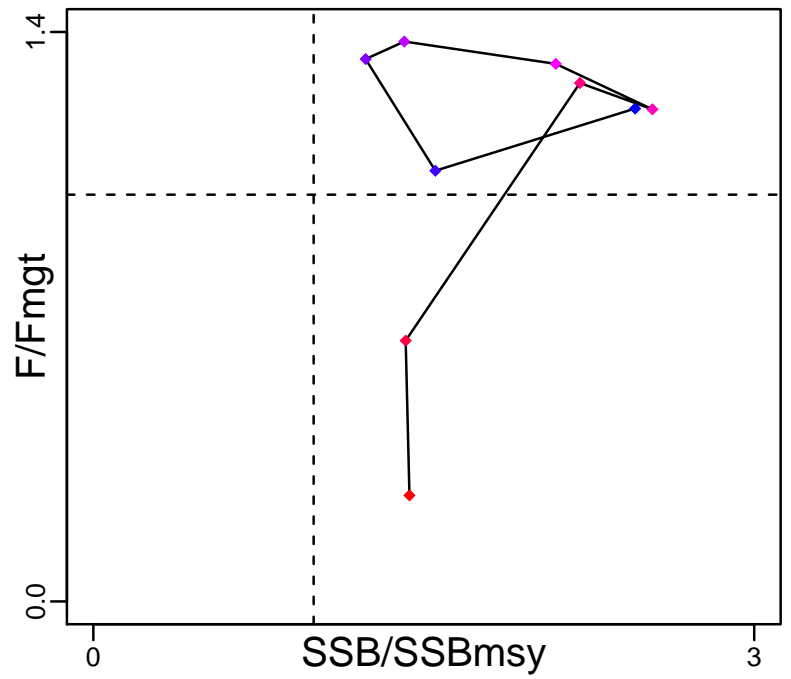


# Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

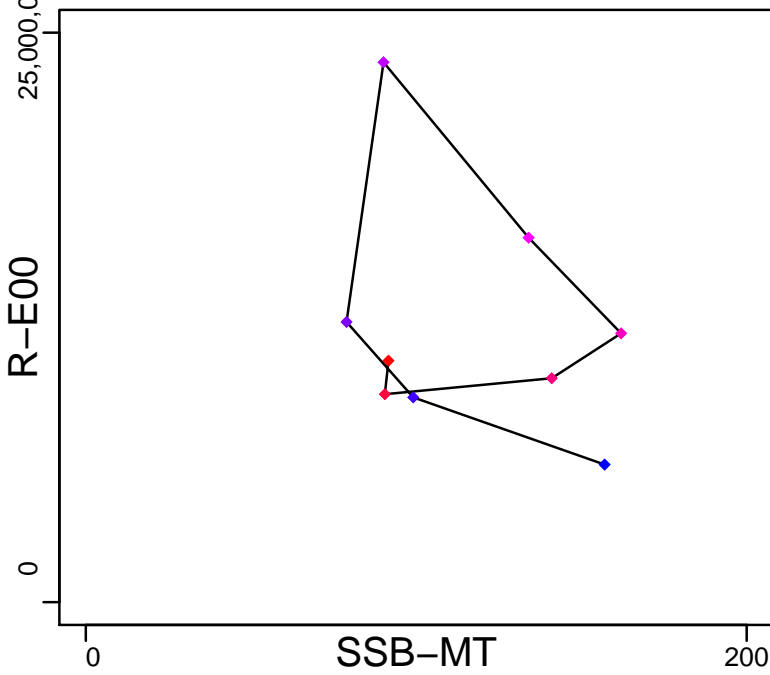
Kobe MSYpref (2006–2014–OSIO)



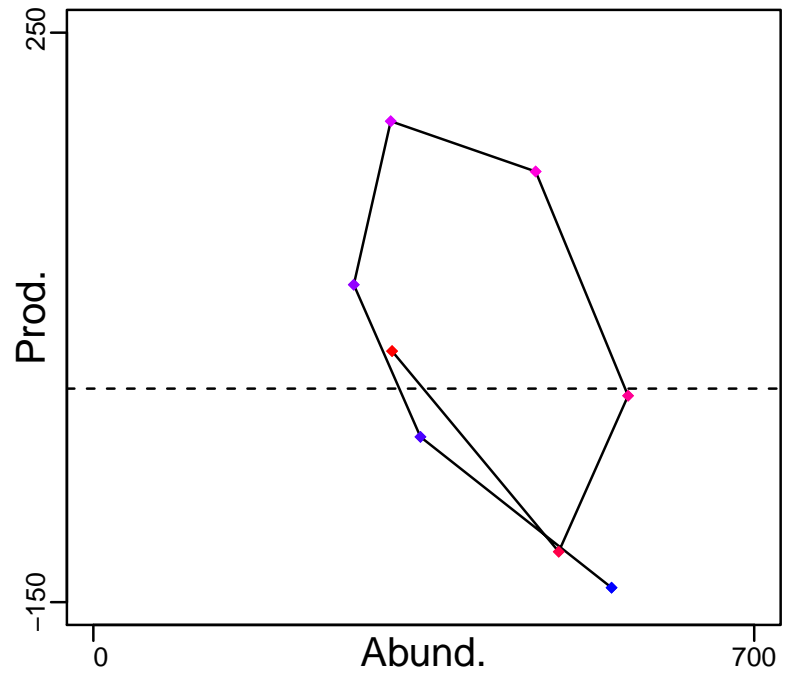
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



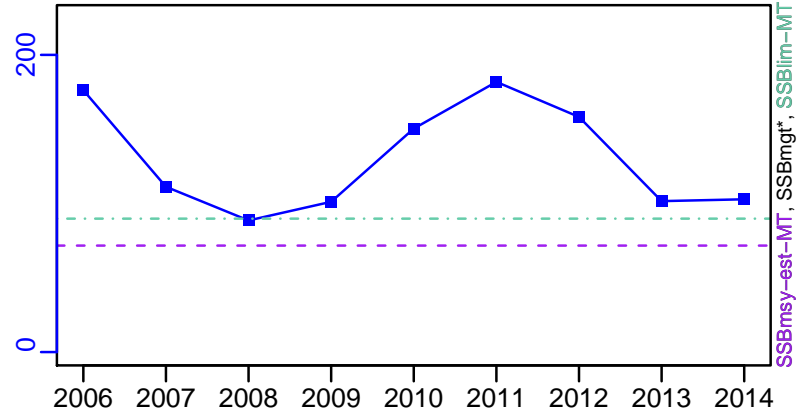
◆ Start Year ◆ End Year \* No Data

Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

TB\*



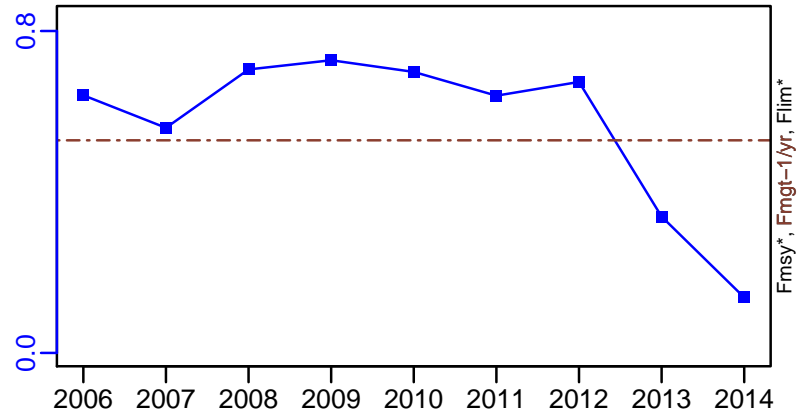
SSB-MT (2006–2014–OSIO)



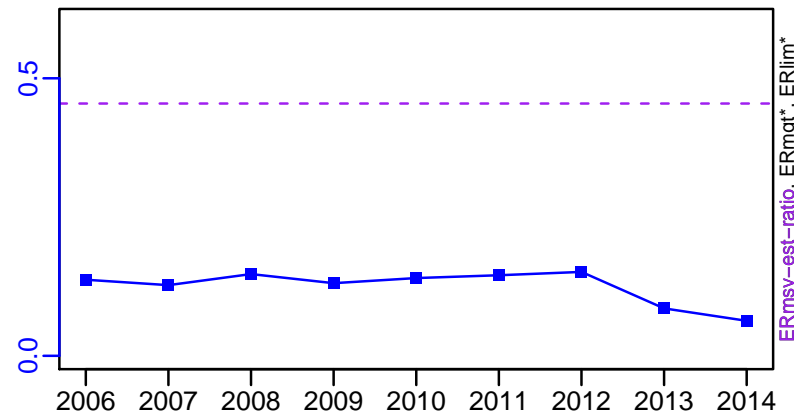
TN \*



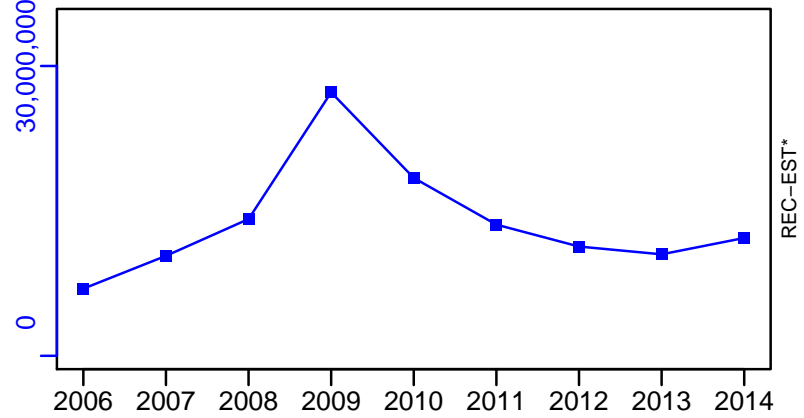
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)



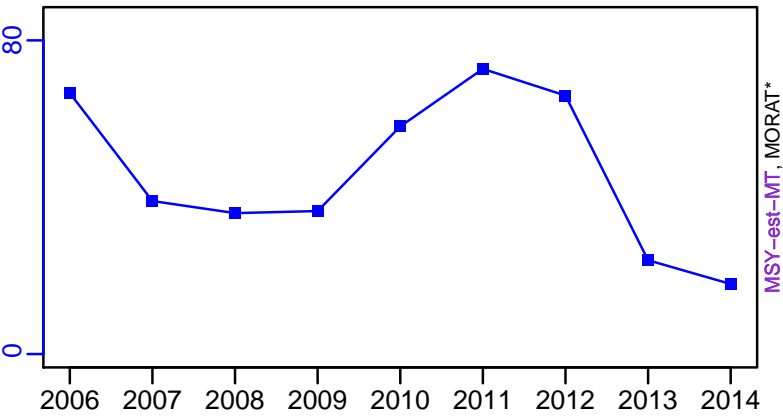
R-E00 (2006–2014–OSIO)



# Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

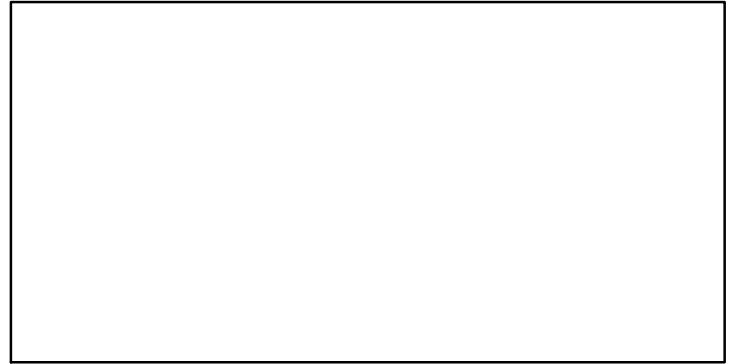
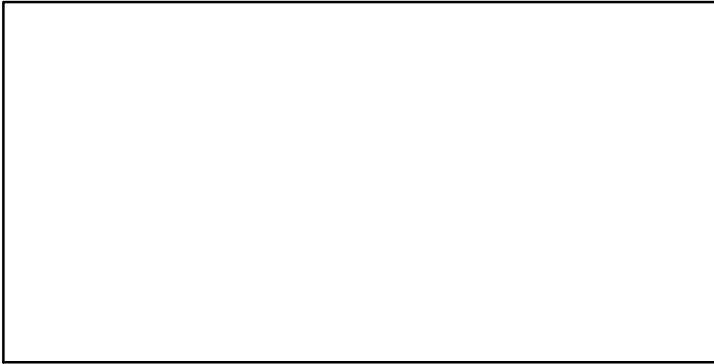
TC-MT, TL\*, RecC\* (2006–2014–OSIO)

TAC\*, Cpair\*, Cadv\*



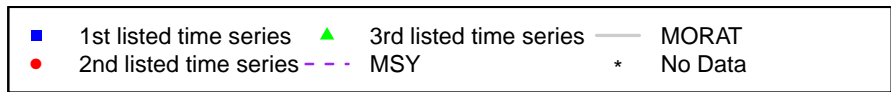
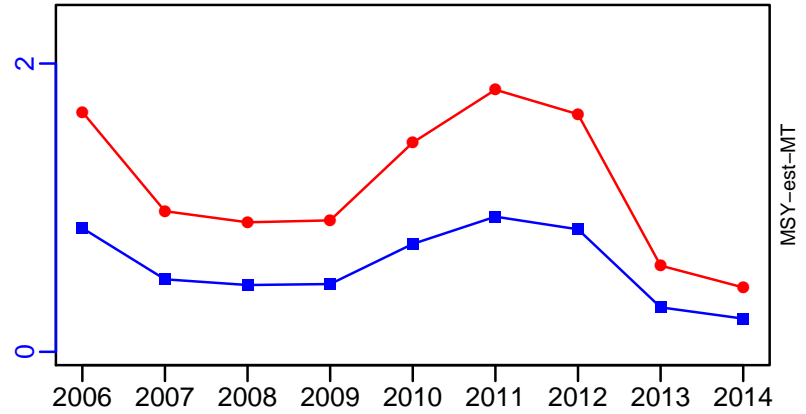
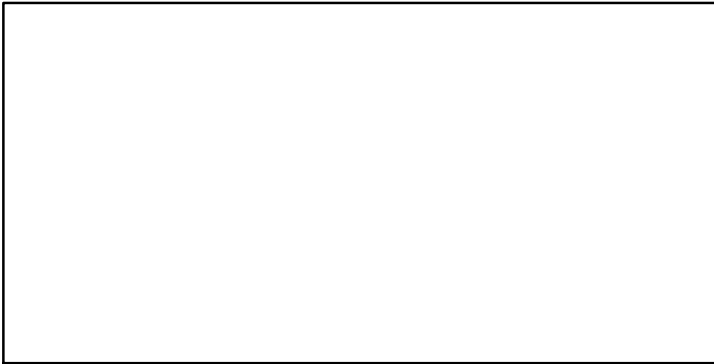
survB\*

CPUE\*



EFFORT\*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2014–OSIO)



## Hake Malta Island and South of Sicily (GSA 15, 16) [HAKEMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA15-16-2005-2009-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2009

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2009	0.15
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	1.12	-	-
ER	-	-	-	-	-
TC	TC-MT	2009	1590		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2009	7.467		
ER/ERmgt	-	-	-		

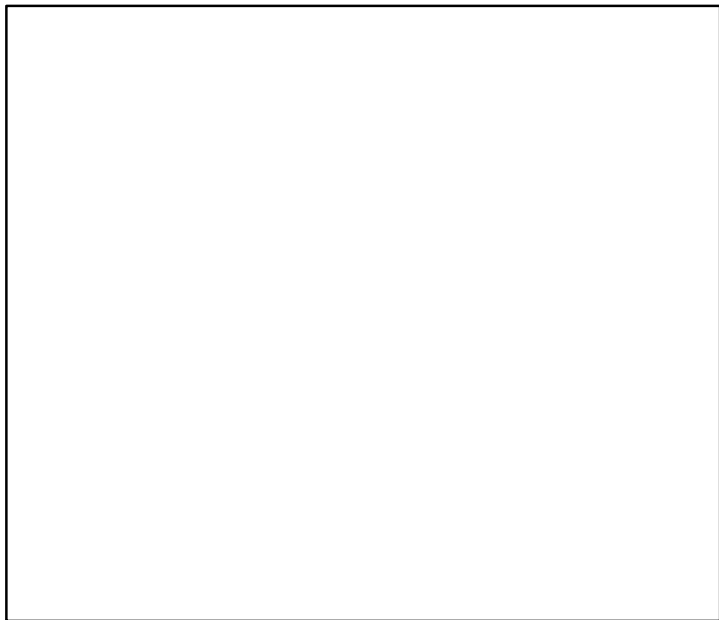
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***

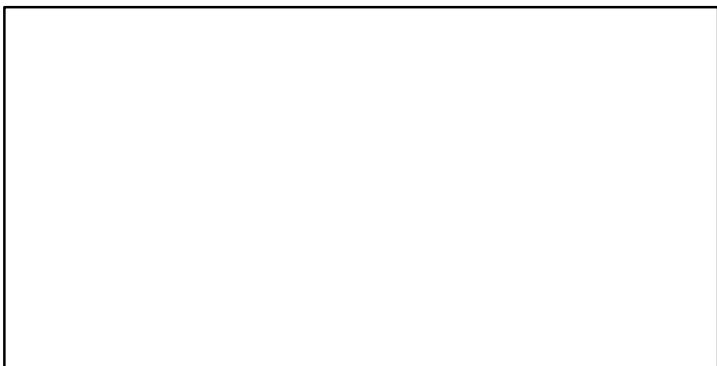


**Production\***

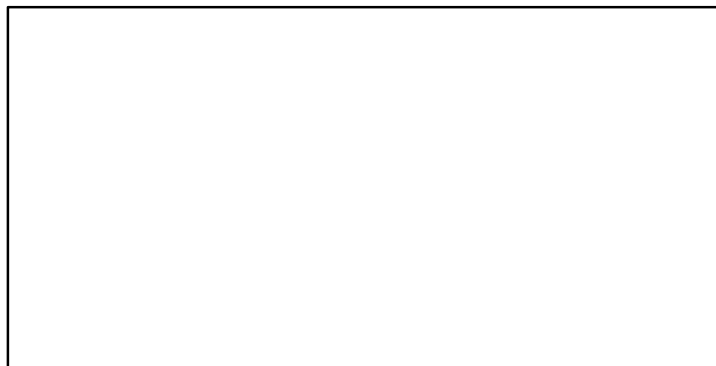


◆ Start Year ◆ End Year \* No Data

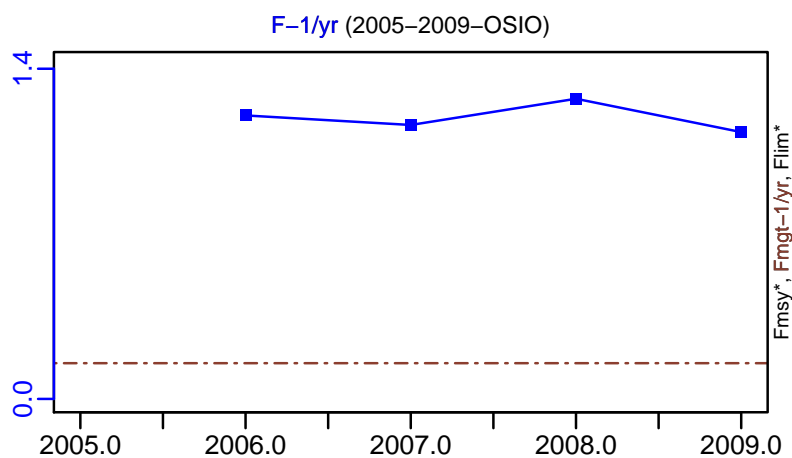
**TB\***



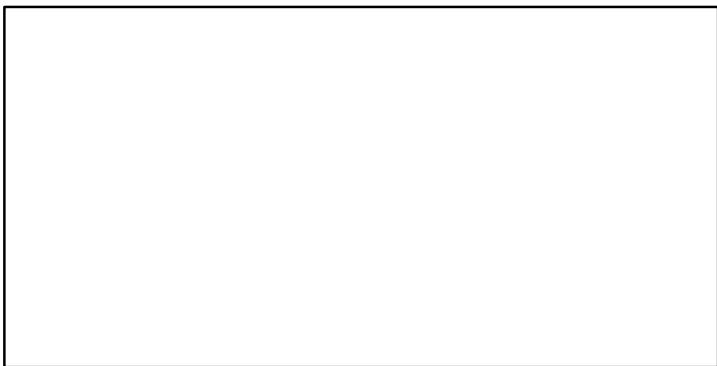
**SSB\***



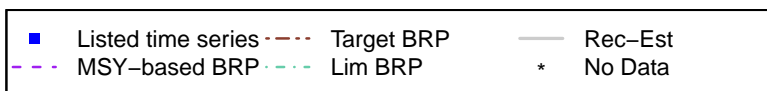
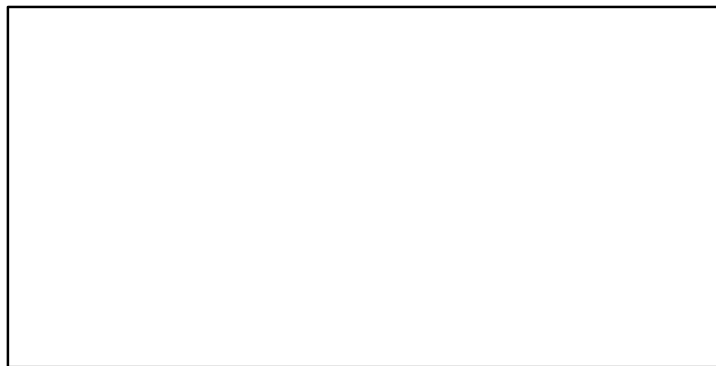
**TN \***



**ER\***

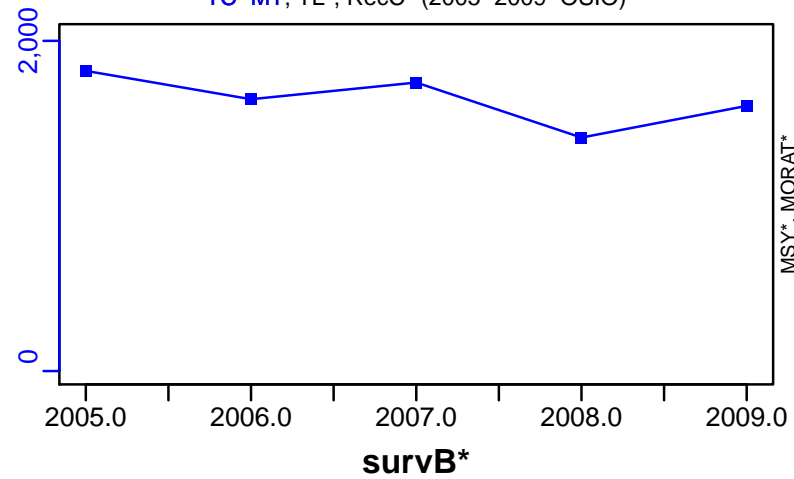


**Recruits\***

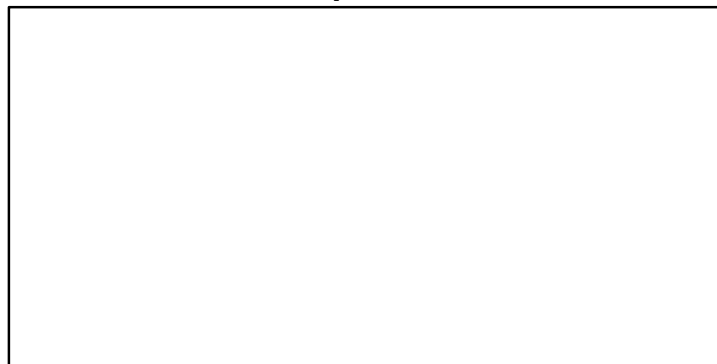


# Hake Malta Island and South of Sicily (GSA 15, 16) [HAKEMEDGSA15-16]

TC-MT, TL\*, RecC\* (2005-2009-OSIO)



TAC\*, Cpair\*, Cadv\*



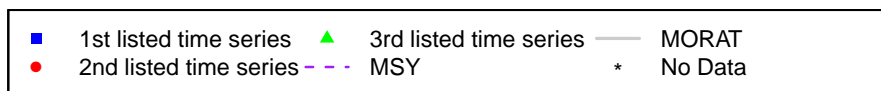
CPUE\*



EFFORT\*



CdivMSY\*



## Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA1-7-2003-2014-OSIO
<b>Area</b>	Geographical Sub-Areas 1-7
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

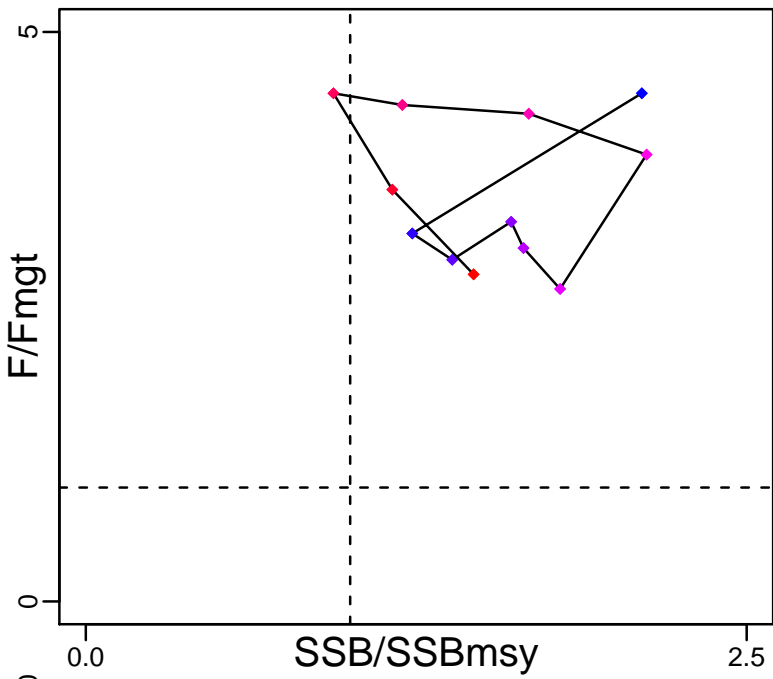
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	5562
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.565
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.39
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	8179
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	5186
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	8160	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$4.01 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	1.12	-	-
<b>ER</b>	ER-calc-ratio	2014	0.222	-	-
<b>TC</b>	TC-MT	2014	4720		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.467		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.393		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	2.872		
<b>ER/ERmgt</b>	-	-	-		

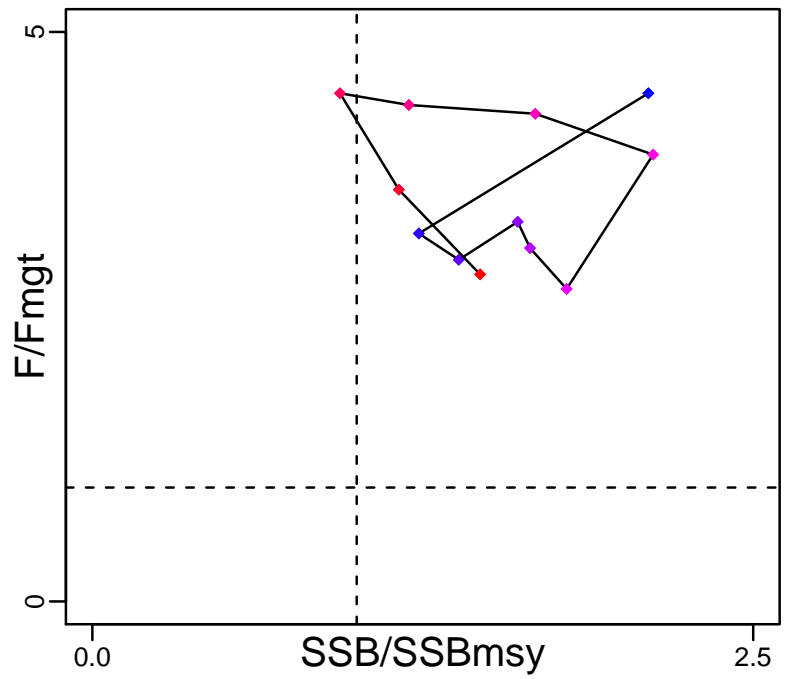


# Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

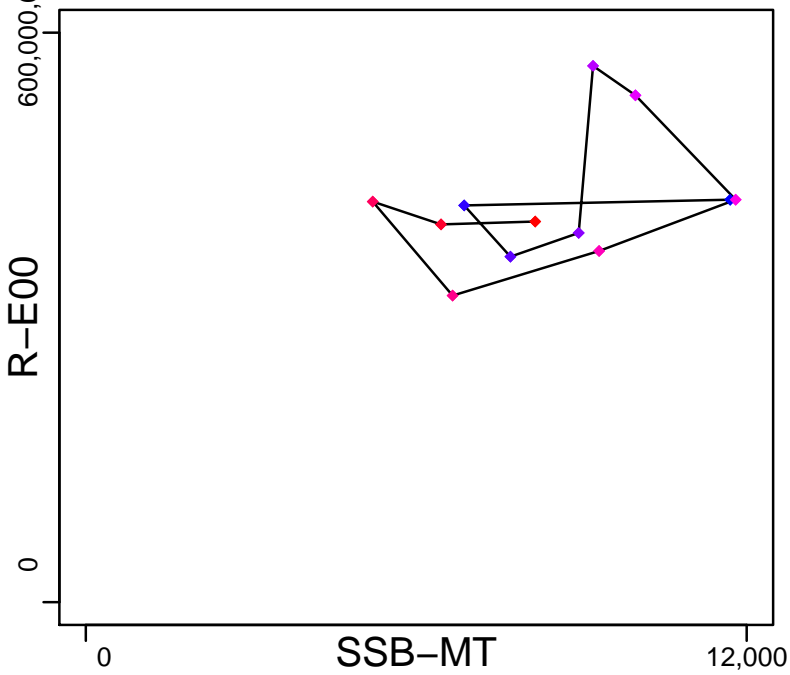
Kobe MSYpref (2003-2014-OSIO)



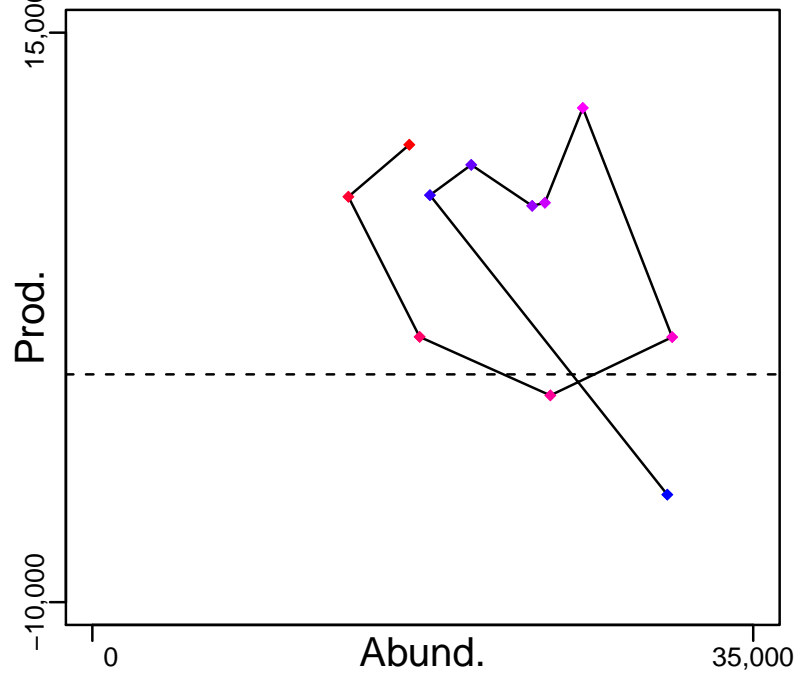
Kobe MGTpref (2003-2014-OSIO)



Spawner Recruit (2003-2014-OSIO)



Production (2003-2014-OSIO)



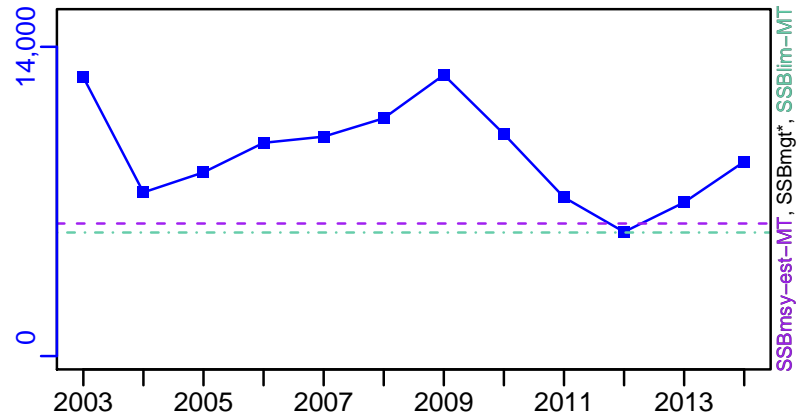
◆ Start Year ◆ End Year \* No Data

# Hake Geographical Sub-Areas 1–7 [HAKEMEDGSA1–7]

TB\*



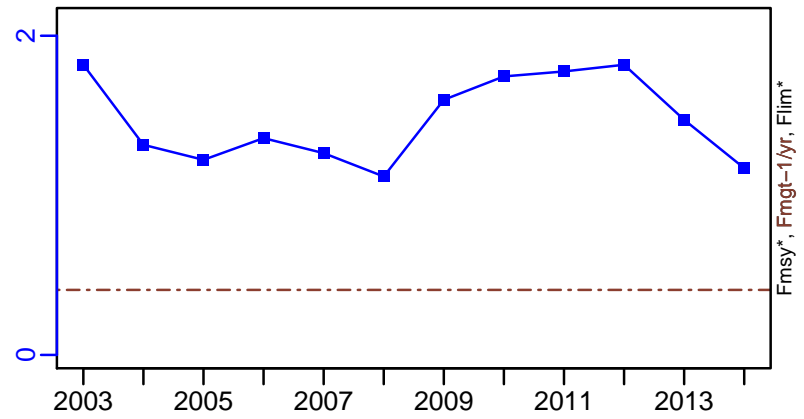
SSB-MT (2003–2014–OSIO)



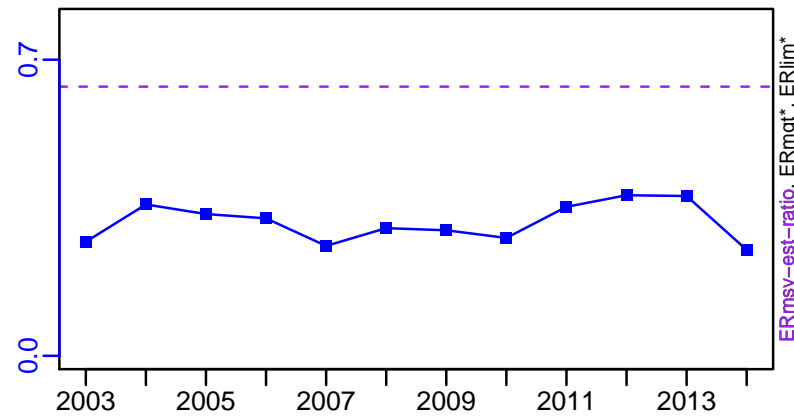
TN \*



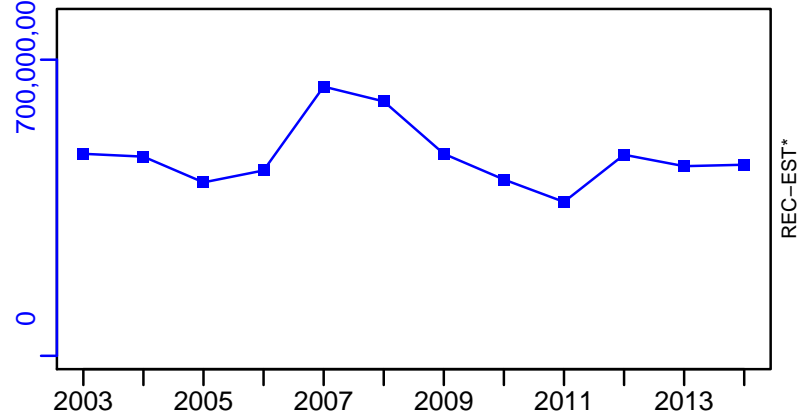
F-1/yr (2003–2014–OSIO)



ER-calc-ratio (2003–2014–OSIO)

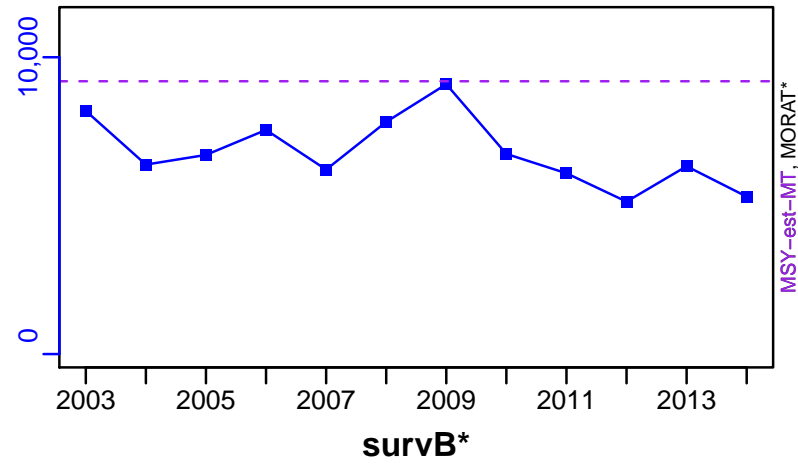


R-E00 (2003–2014–OSIO)



# Hake Geographical Sub-Areas 1-7 [HAKEMEDGSA1-7]

TC-MT, TL\*, RecC\* (2003-2014-OSIO)



TAC\*, Cpair\*, Cadv\*



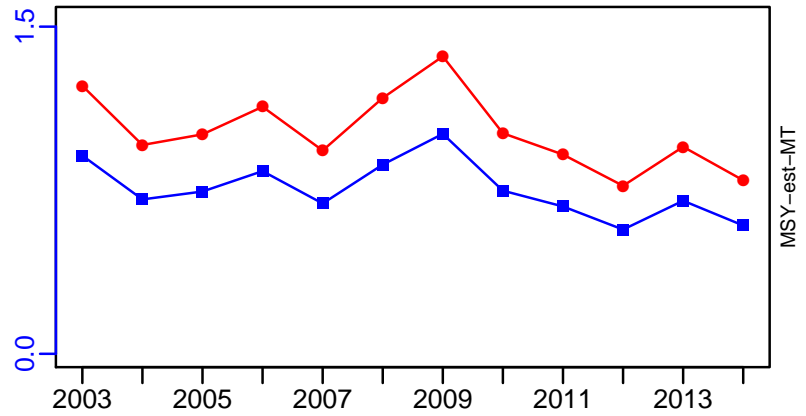
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003-2014-OSIO)



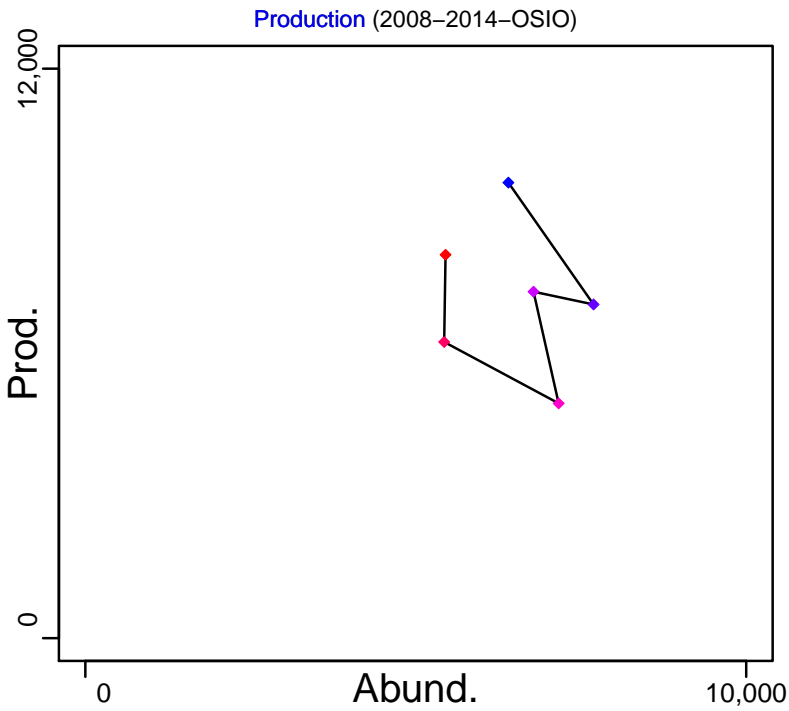
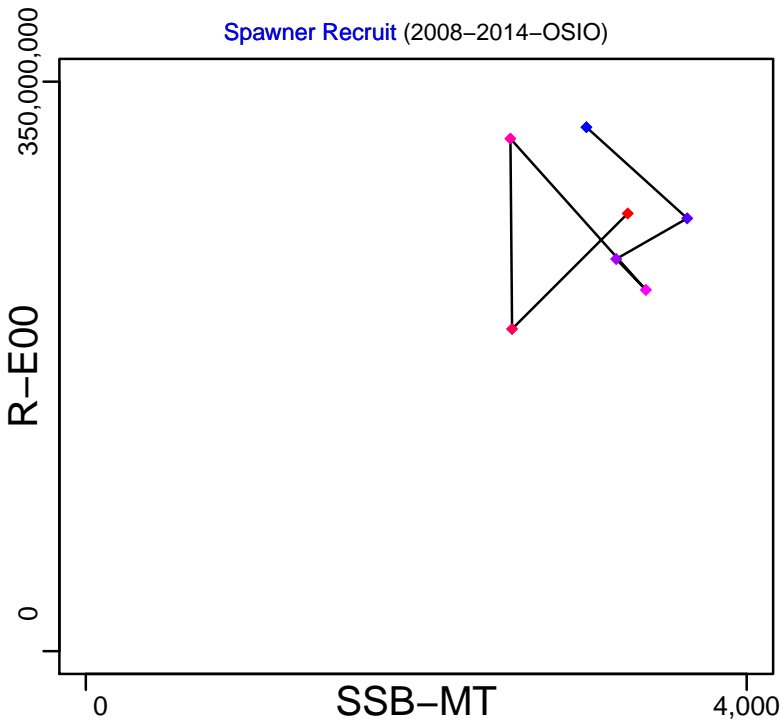
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

## Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA17-18-2008-2014-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.16
<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>	-	-	-

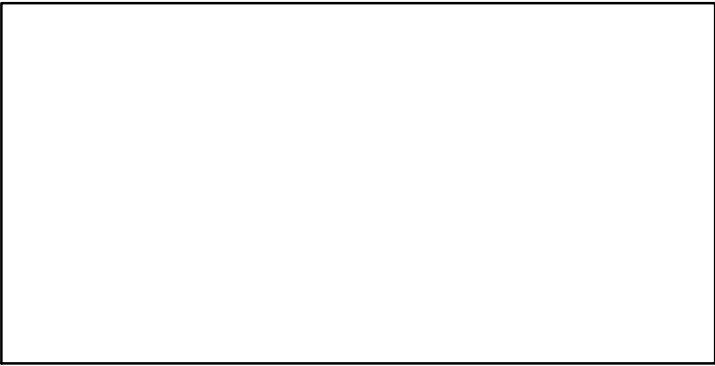
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	3280	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$2.69 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	0.891	-	-
<b>ER</b>	ER-calc-ratio	2014	0.771	-	-
<b>TC</b>	TC-MT	2014	5340		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	5.569		
<b>ER/ERmgt</b>	-	-	-		



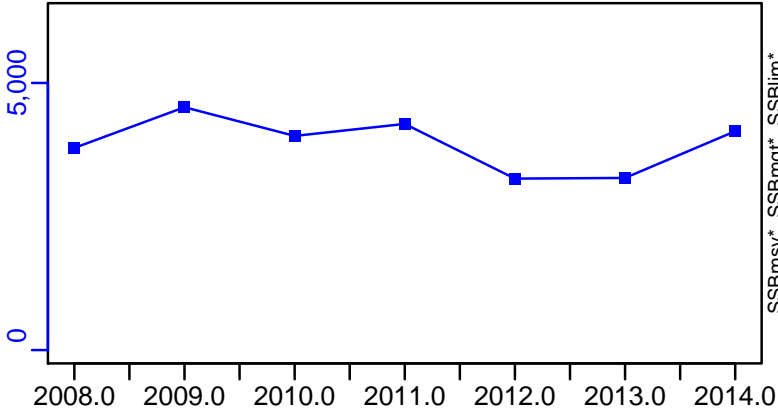
◆ Start Year ◆ End Year \* No Data

Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

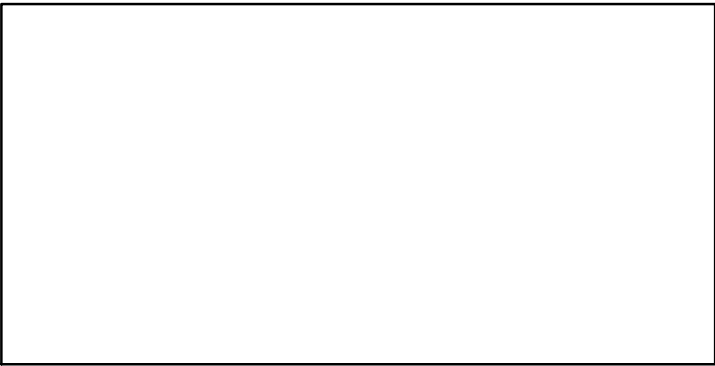
TB\*



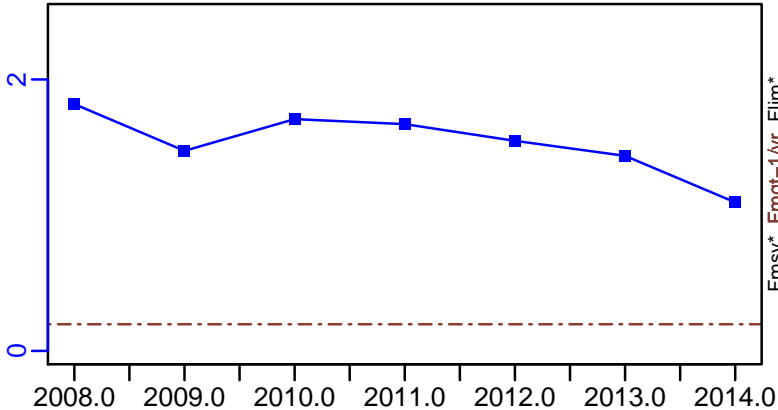
SSB-MT (2008-2014-OSIO)



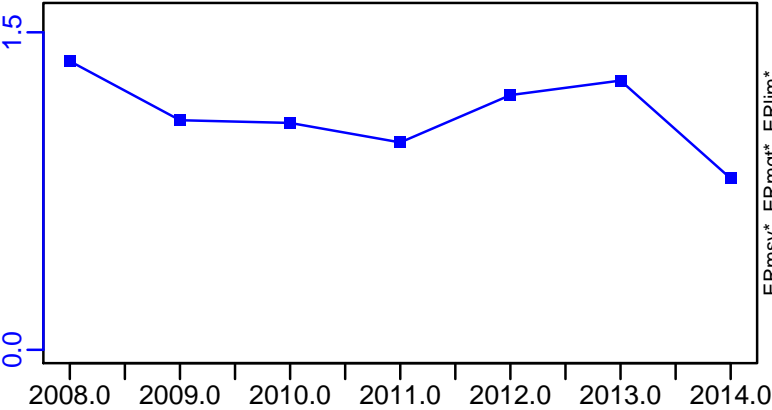
TN \*



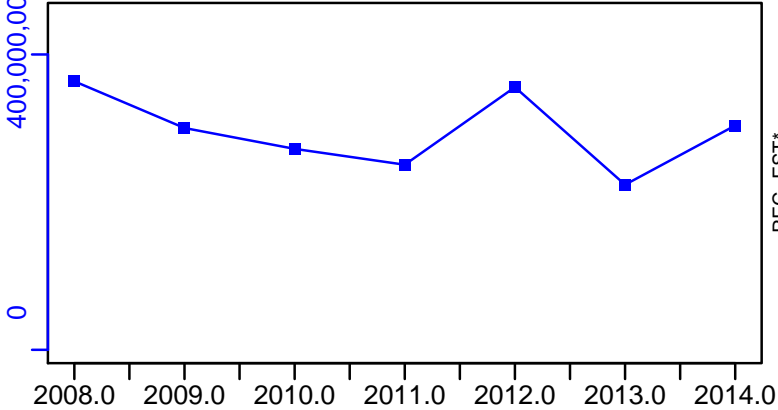
F-1/yr (2008-2014-OSIO)



ER-calc-ratio (2008-2014-OSIO)

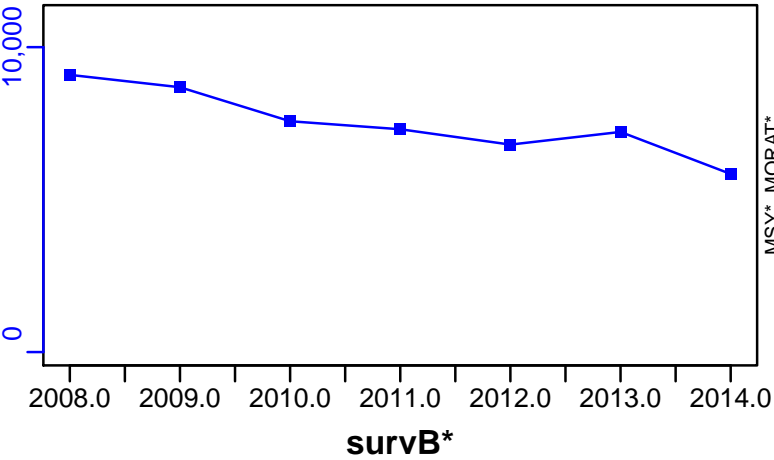


R-E00 (2008-2014-OSIO)



Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

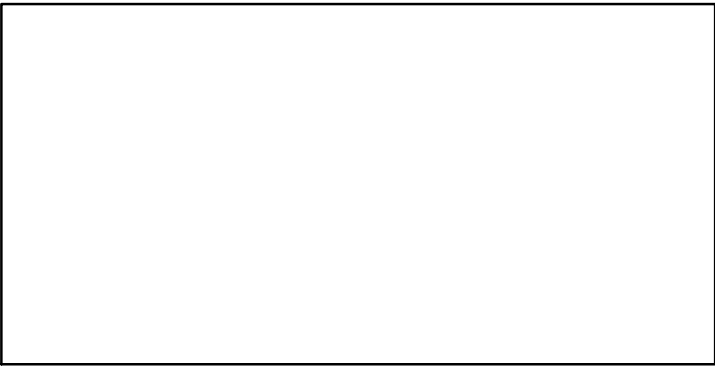
TC-MT, TL\*, RecC\* (2008-2014-OSIO)



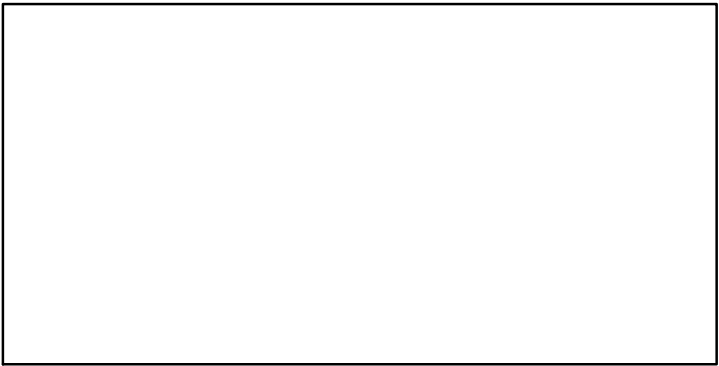
TAC\*, Cpair\*, Cadv\*



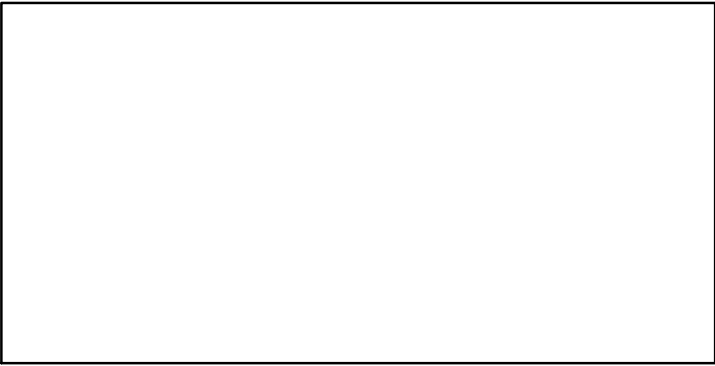
survB\*



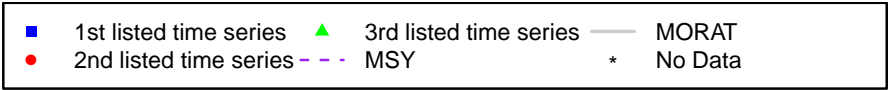
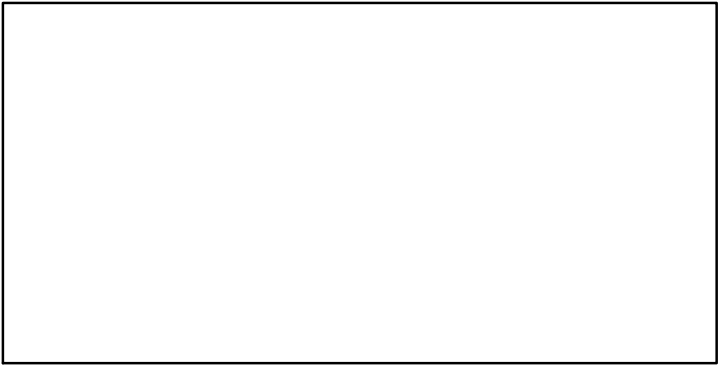
CPUE\*



EFFORT\*



CdivMSY\*



## Hake Western Ionian Sea [HAKEMEDGSA19]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA19-2006-2014-OSIO
<b>Area</b>	Western Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

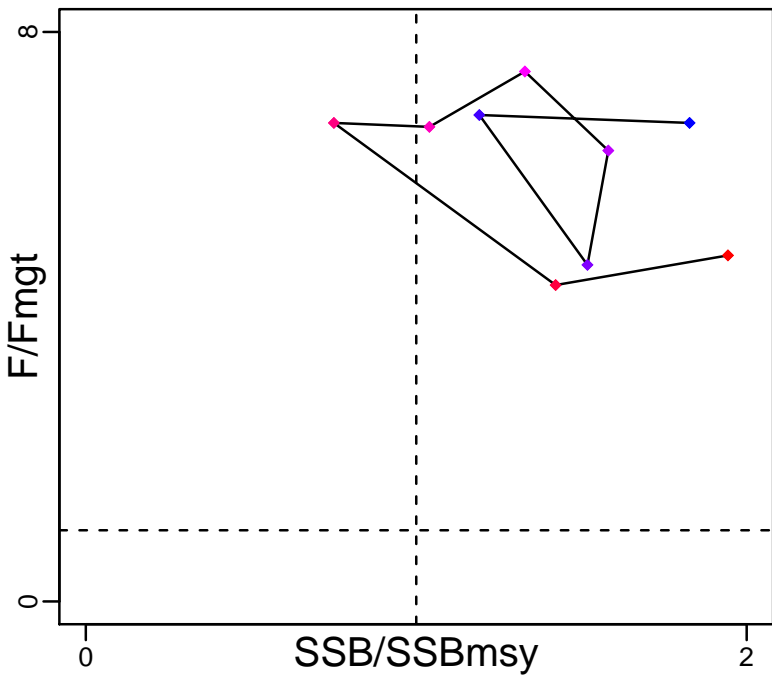
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	602
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.745
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.18
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	1173
<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>	SSB-MT	2014	1170	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	23,900,000	-	-
<b>F</b>	F-1/yr	2014	0.875	-	-
<b>ER</b>	ER-calc-ratio	2014	0.248	-	-
<b>TC</b>	TC-MT	2014	759		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.943		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.333		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	4.861		
<b>ER/ERmgt</b>	-	-	-		

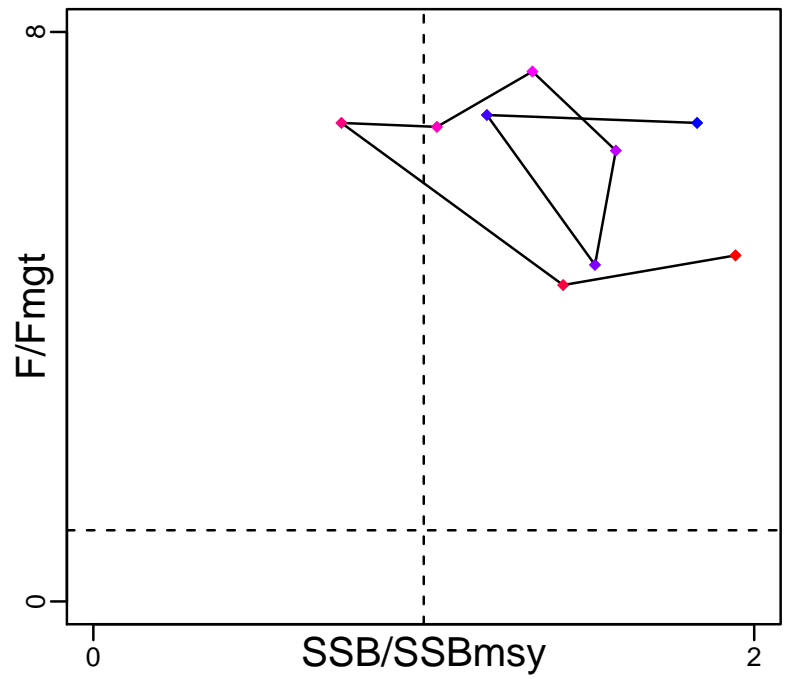


# Hake Western Ionian Sea [HAKEMEDGSA19]

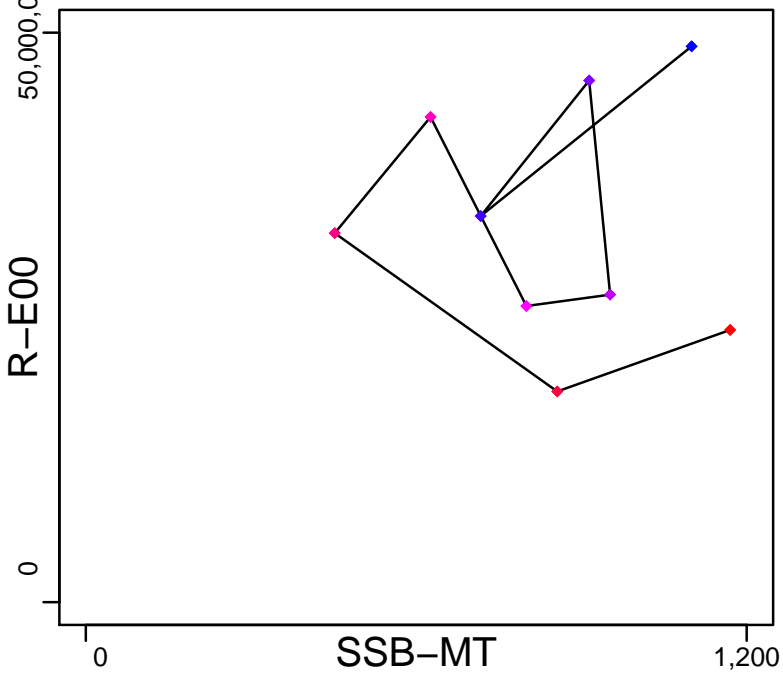
Kobe MSYpref (2006–2014–OSIO)



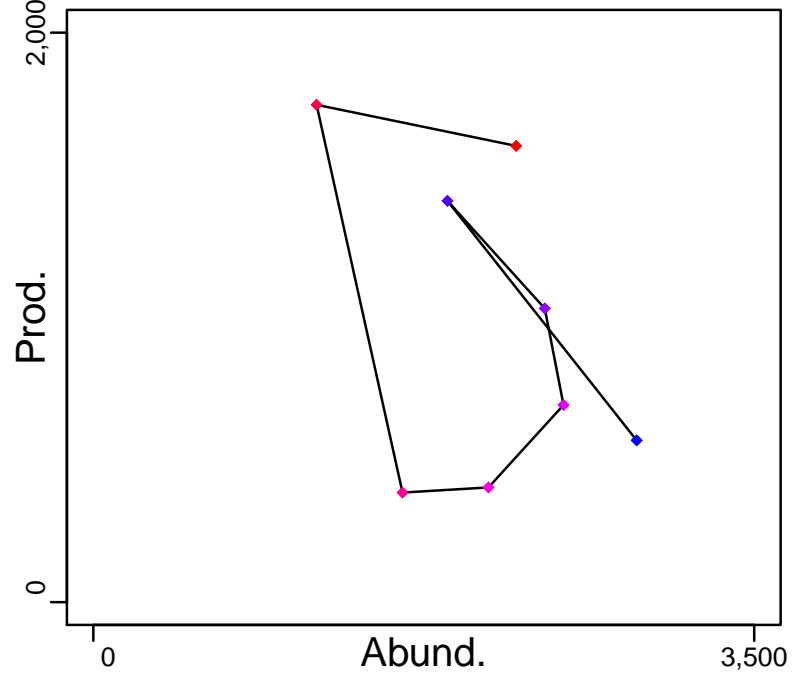
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



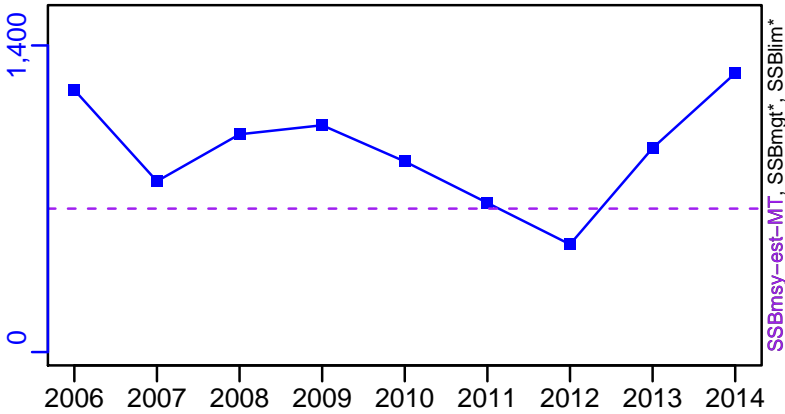
◆ Start Year ◆ End Year \* No Data

Hake Western Ionian Sea [HAKEMEDGSA19]

TB\*



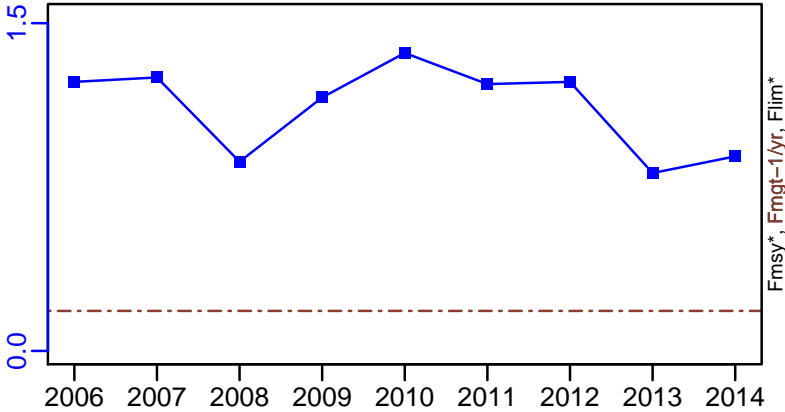
SSB-MT (2006–2014–OSIO)



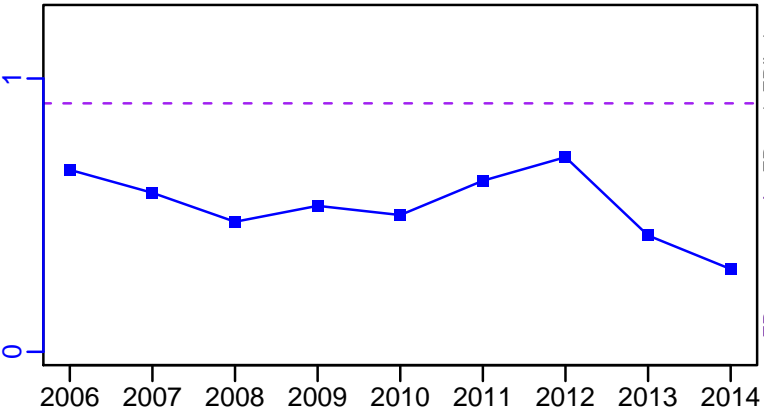
TN \*



F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

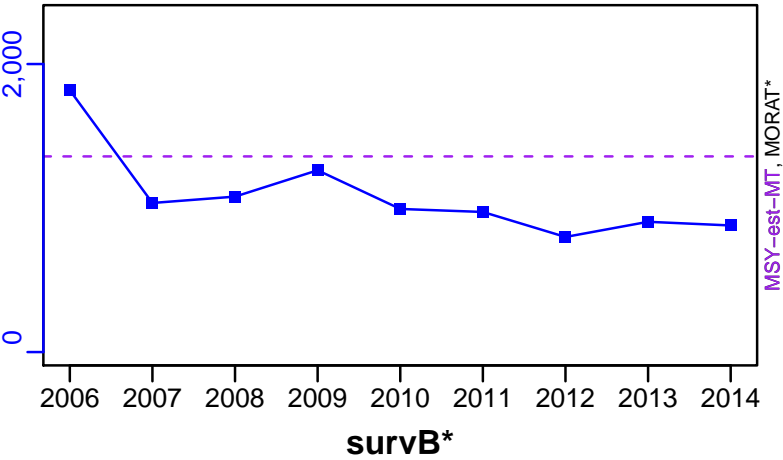


R-E00 (2006–2014–OSIO)



Hake Western Ionian Sea [HAKEMEDGSA19]

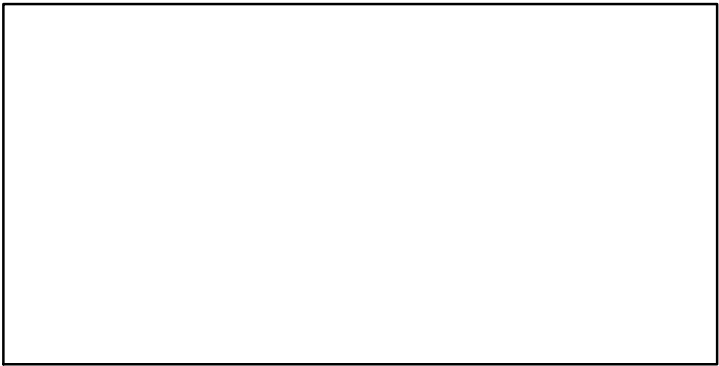
TC-MT, TL\*, RecC\* (2006–2014–OSIO)



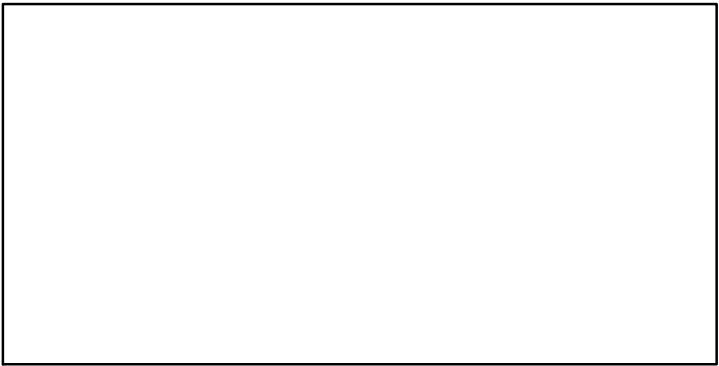
TAC\*, Cpair\*, Cadv\*



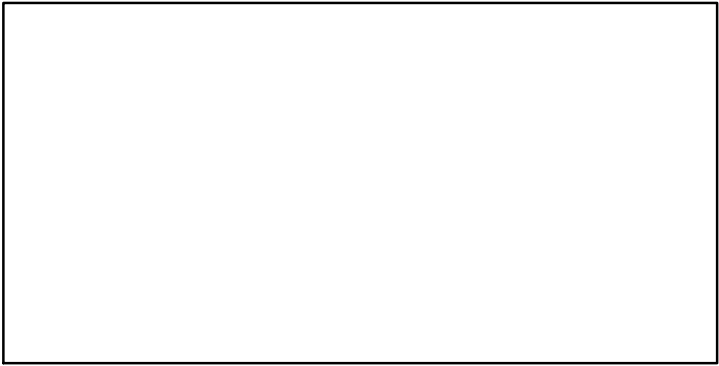
survB\*



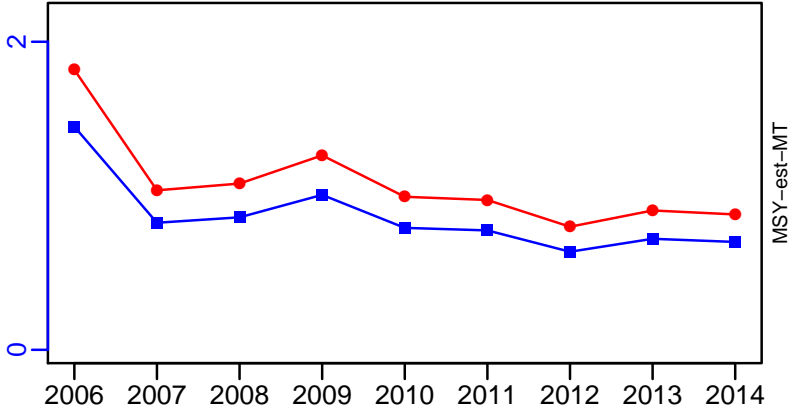
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2014–OSIO)



## Hake Eastern Ionian Sea [HAKEMEDGSA20]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA20-2003-2008-OSIO
<b>Area</b>	Eastern Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2008	0.27
ERmgt	-	-	-
TB0	-	-	-
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	2008	3290		
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\*

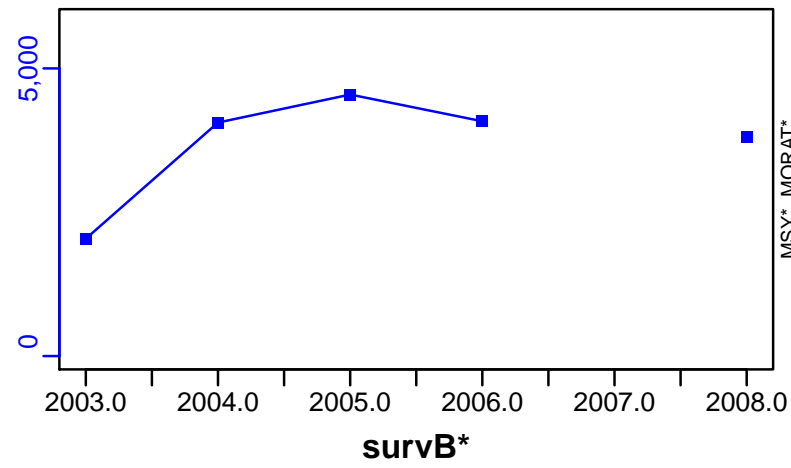


Recruits\*



Hake Eastern Ionian Sea [HAKEMEDGSA20]

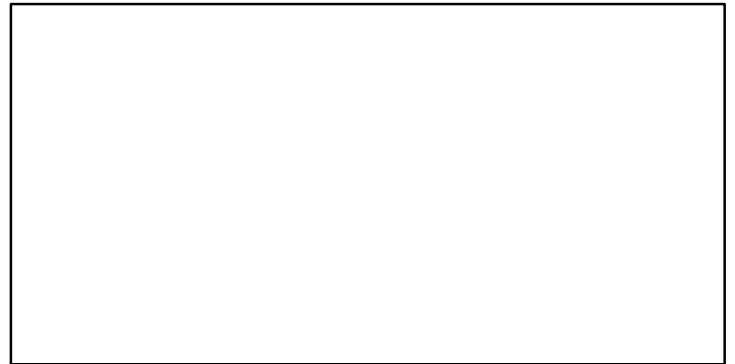
TC-MT, TL\*, RecC\* (2003-2008-OSIO)



TAC\*, Cpair\*, Cadv\*



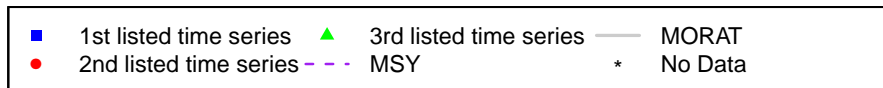
CPUE\*



EFFORT\*



CdivMSY\*



## Hake Aegean Sea and Crete Island (GSA 22,23) [HAKEMEDGSA22-23]

Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA22-23-2003-2008-OSIO
<b>Area</b>	Aegean Sea and Crete Island (GSA 22,23)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

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>	Fmgt-1/yr	2008	0.24
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	5650	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$3.75 \times 10^8$	-	-
<b>F</b>	F-1/yr	2008	0.83	-	-
<b>ER</b>	ER-calc-ratio	2008	0.761	-	-
<b>TC</b>	TC-MT	2008	7160		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2008	3.458		
<b>ER/ERmgt</b>	-	-	-		



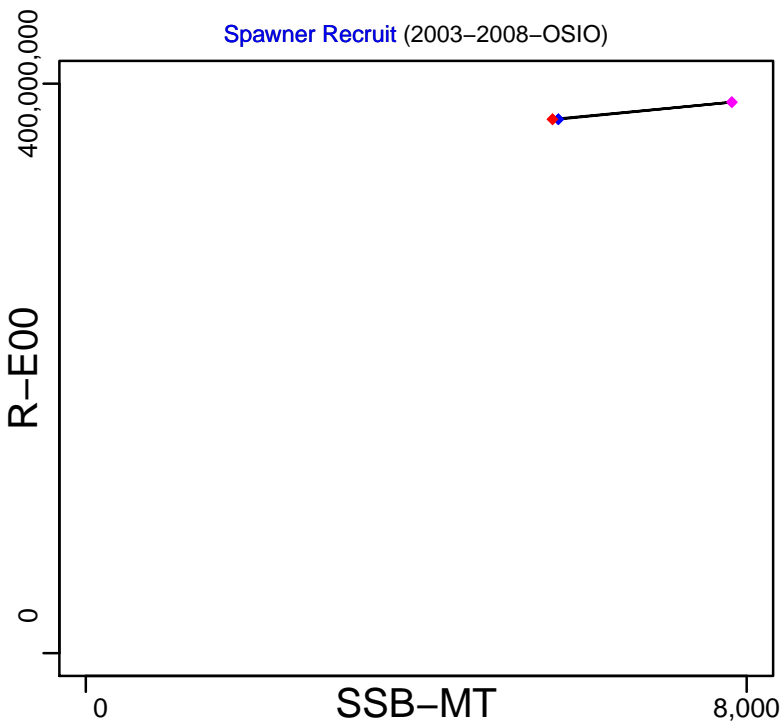
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit** (2003–2008–OSIO)



**Production\***



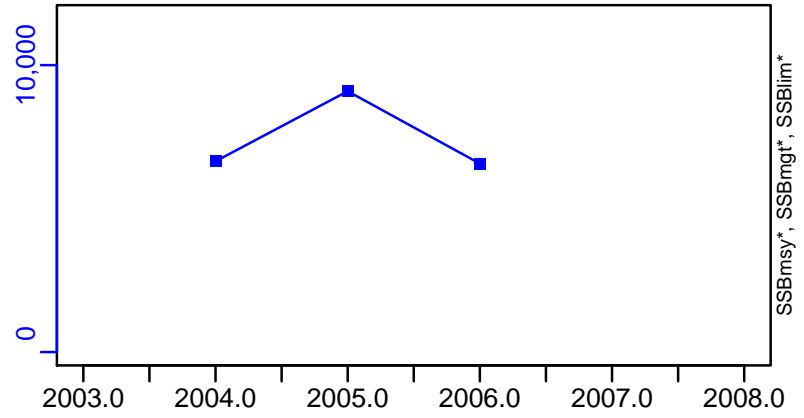
◆ Start Year ◆ End Year \* No Data

# Hake Aegean Sea and Crete Island (GSA 22,23) [HAKEMEDGSA22-23]

TB\*



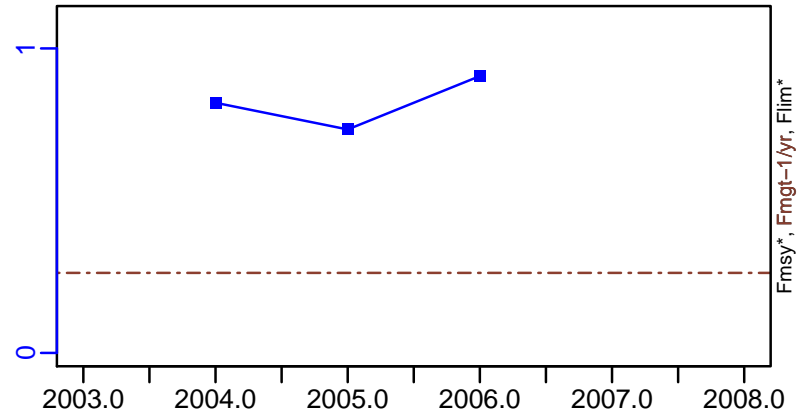
SSB-MT (2003–2008–OSIO)



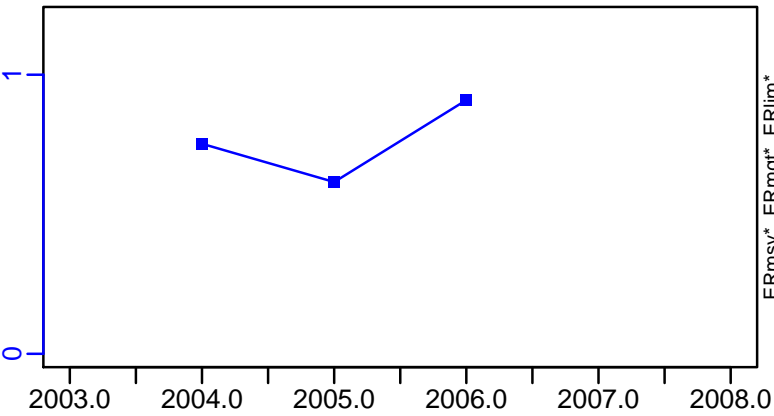
TN \*



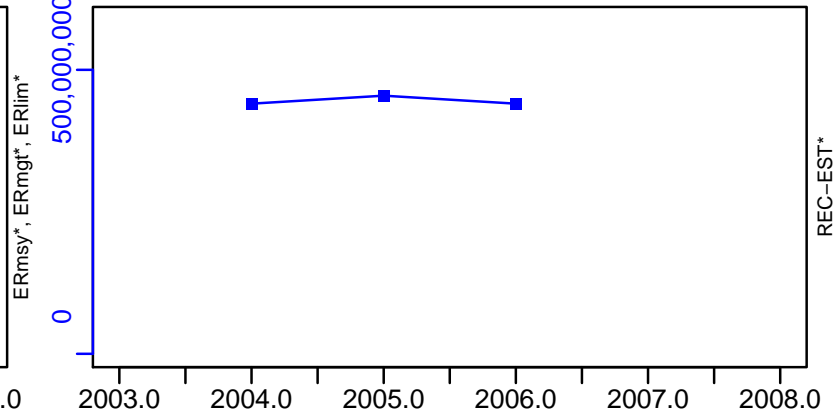
F-1/yr (2003–2008–OSIO)



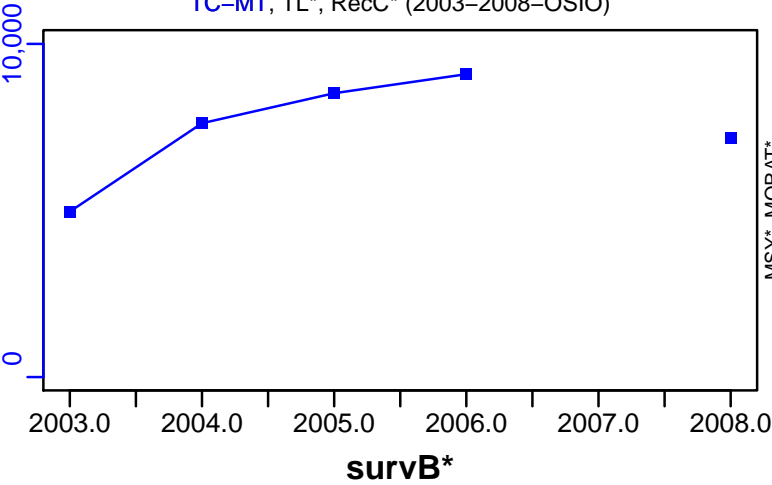
ER-calc-ratio (2003–2008–OSIO)



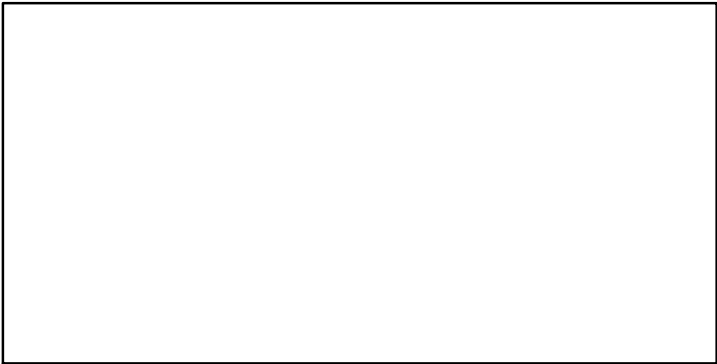
R-E00 (2003–2008–OSIO)



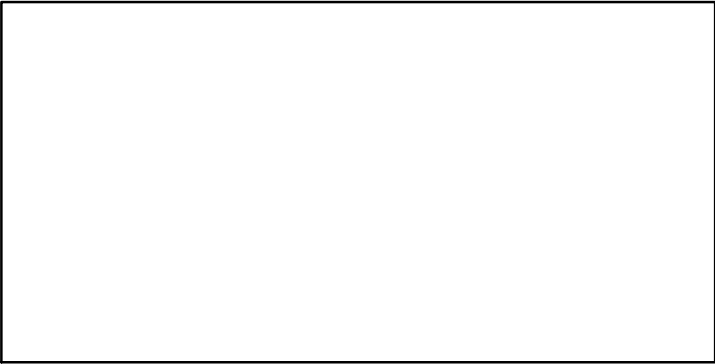
TC-MT, TL\*, RecC\* (2003-2008-OSIO)



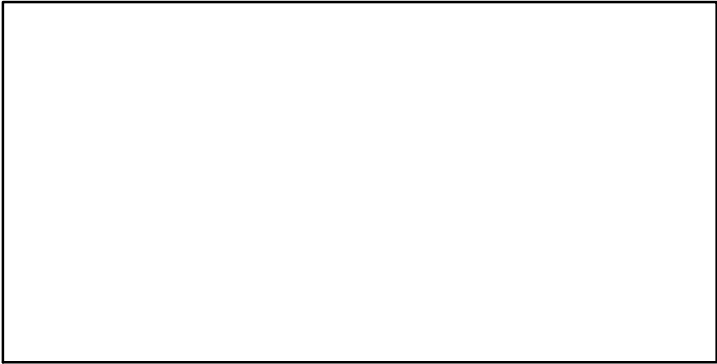
TAC\*, Cpair\*, Cadv\*



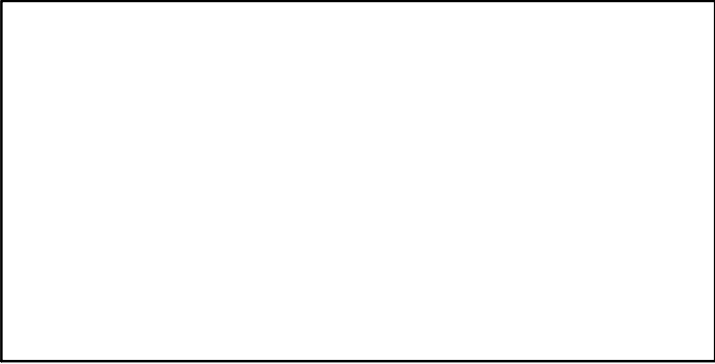
survB\*



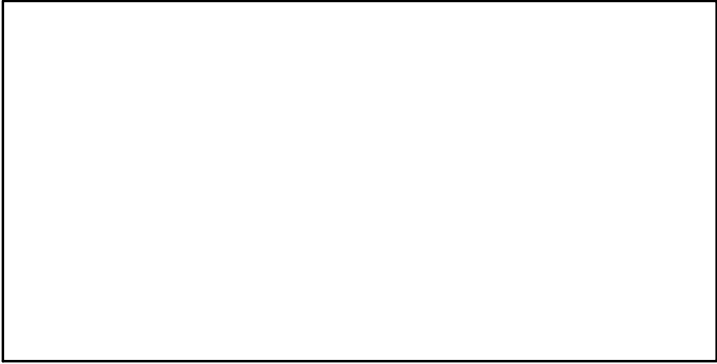
CPUE\*



EFFORT\*



CdivMSY\*



## Hake Gulf of Lions [HAKEMEDGSA7]

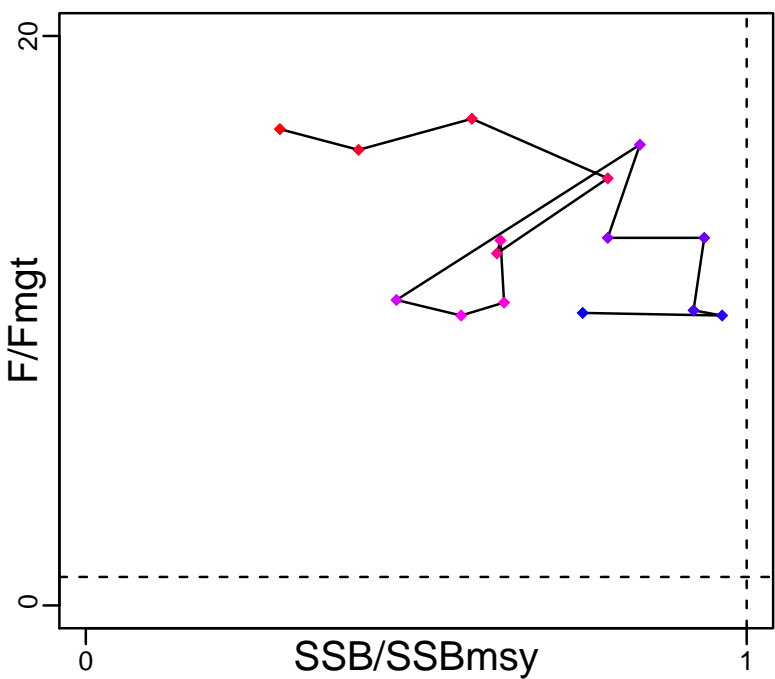
Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA7-1998-2012-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2012	1849
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.425
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.11
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	2145
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

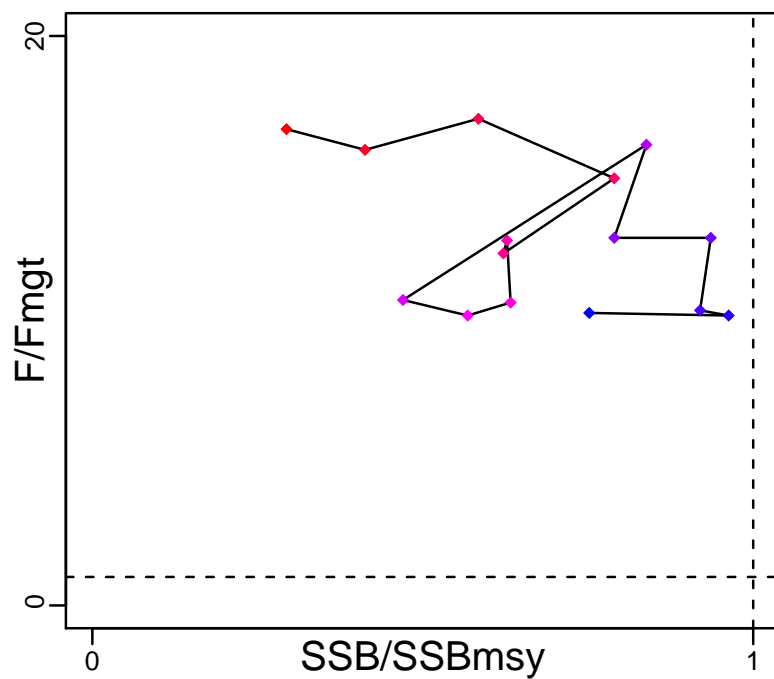
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	543	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	19,700,000	-	-
<b>F</b>	F-1/yr	2012	1.84	-	-
<b>ER</b>	ER-calc-ratio	2012	0.748	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2012	1110		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	0.294		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	1.761		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	16.727		
<b>ER/ERmgt</b>	-	-	-		

# Hake Gulf of Lions [HAKEMEDGSA7]

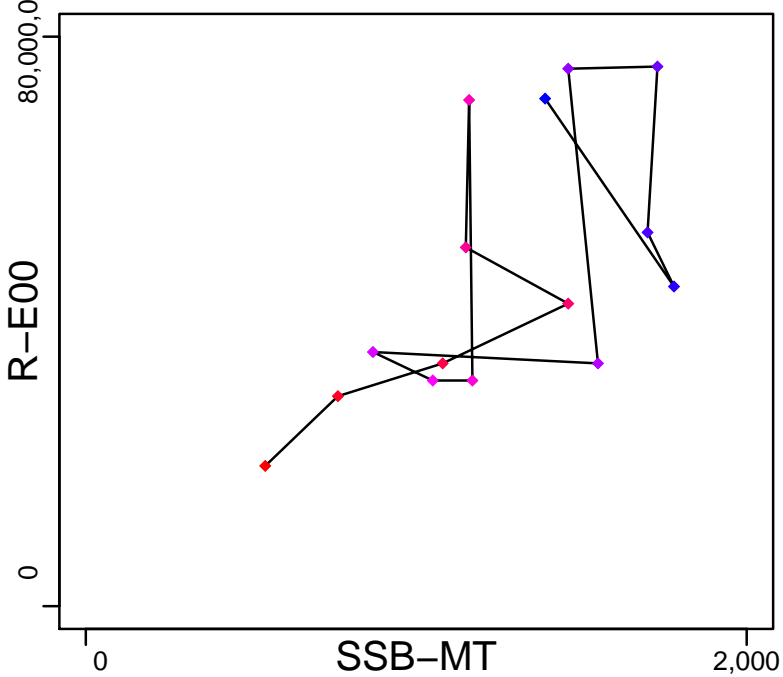
Kobe MSYpref (1998–2012–OSIO)



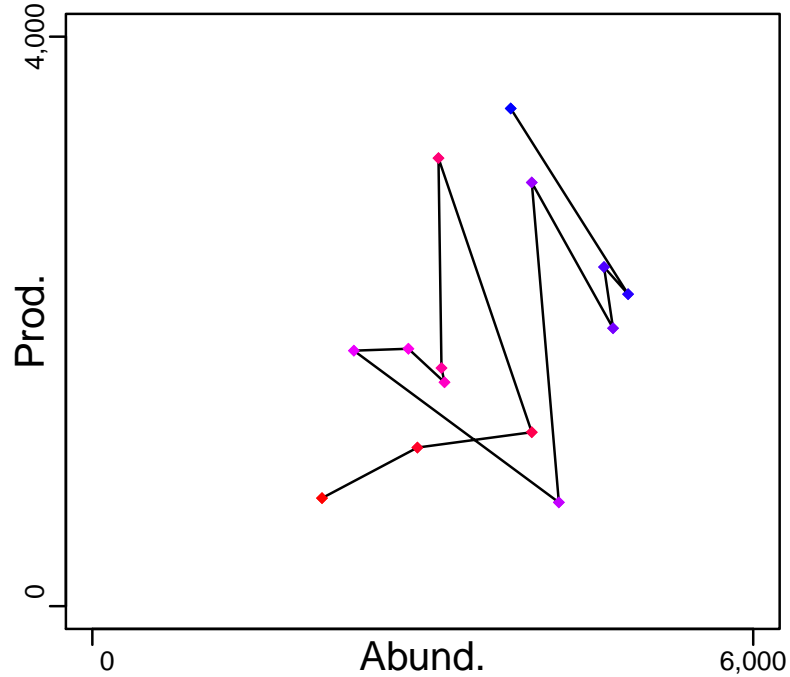
Kobe MGTpref (1998–2012–OSIO)



Spawner Recruit (1998–2012–OSIO)



Production (1998–2012–OSIO)



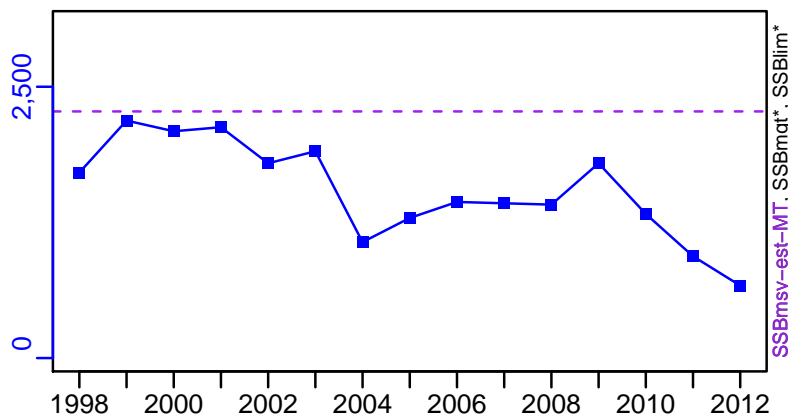
◆ Start Year ◆ End Year \* No Data

# Hake Gulf of Lions [HAKEMEDGSA7]

TB\*



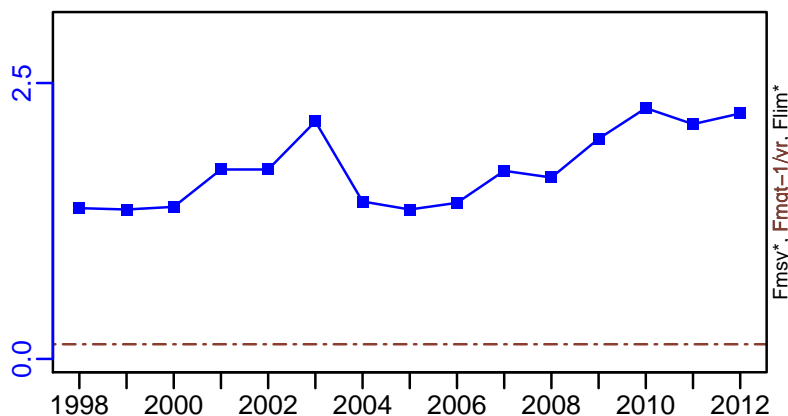
SSB-MT (1998–2012–OSIO)



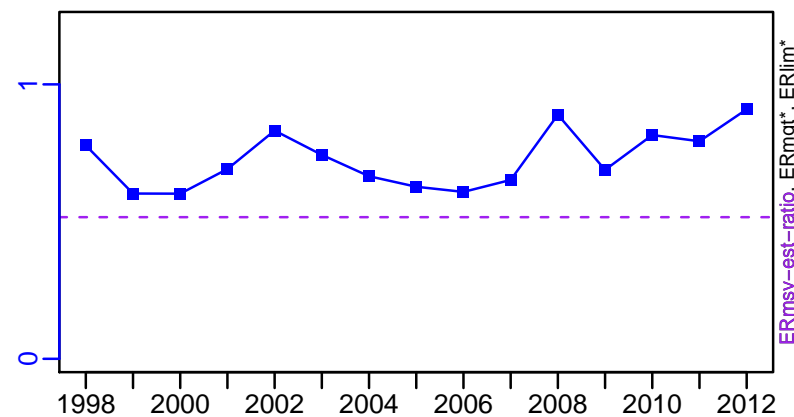
TN \*



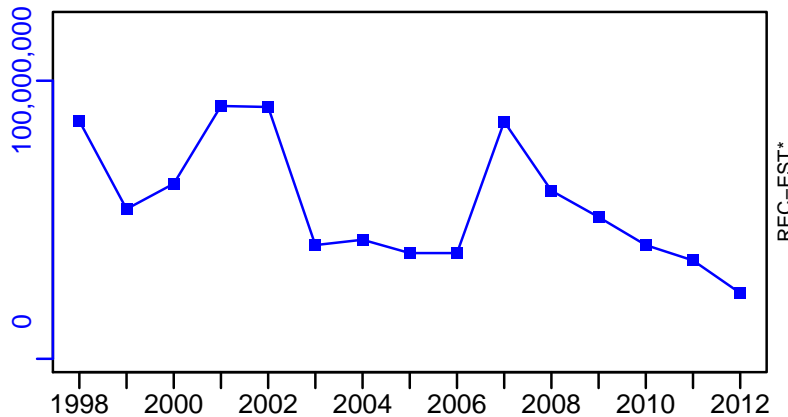
F-1/yr (1998–2012–OSIO)



ER-calc-ratio (1998–2012–OSIO)

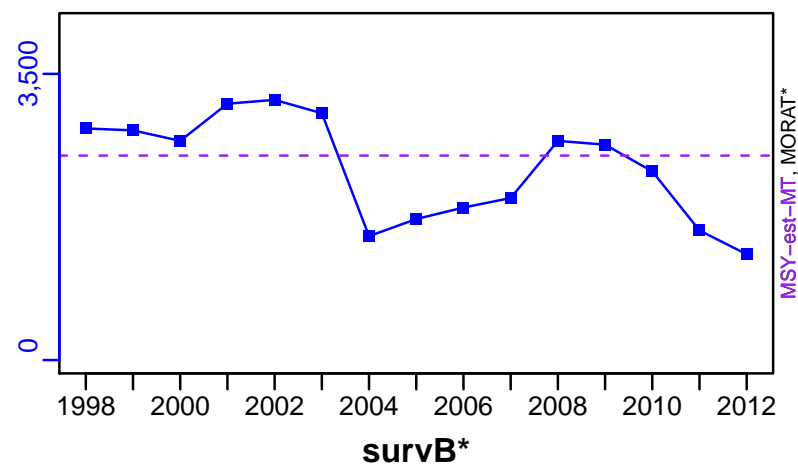


R-E00 (1998–2012–OSIO)



# Hake Gulf of Lions [HAKEMEDGSA7]

TL-MT, TC\*, RecC\* (1998-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



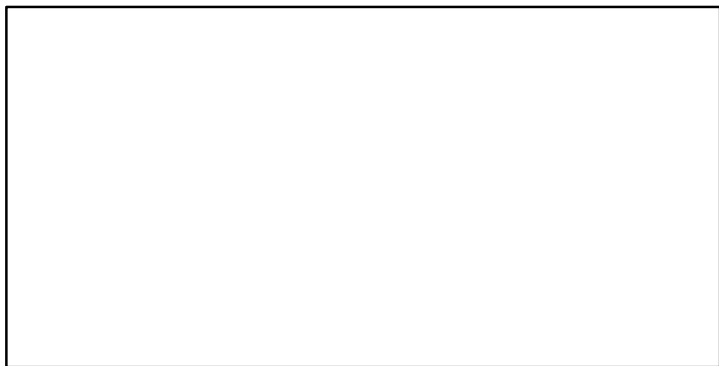
survB\*



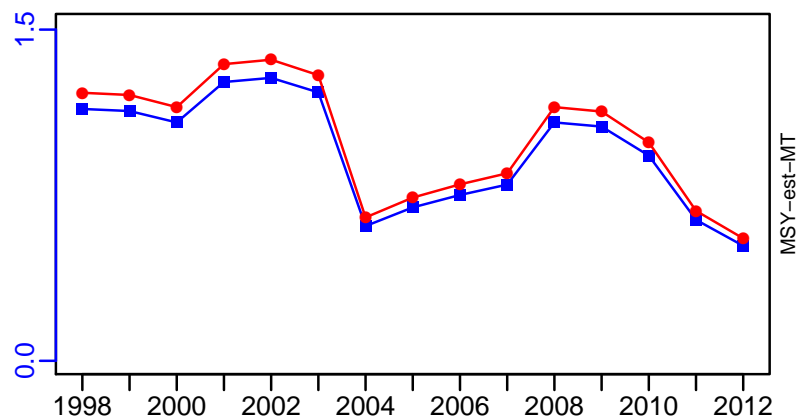
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1998-2012-OSIO)



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

## Hake Geographical Sub-Areas 9-11 [HAKEMEDGSA9-11]

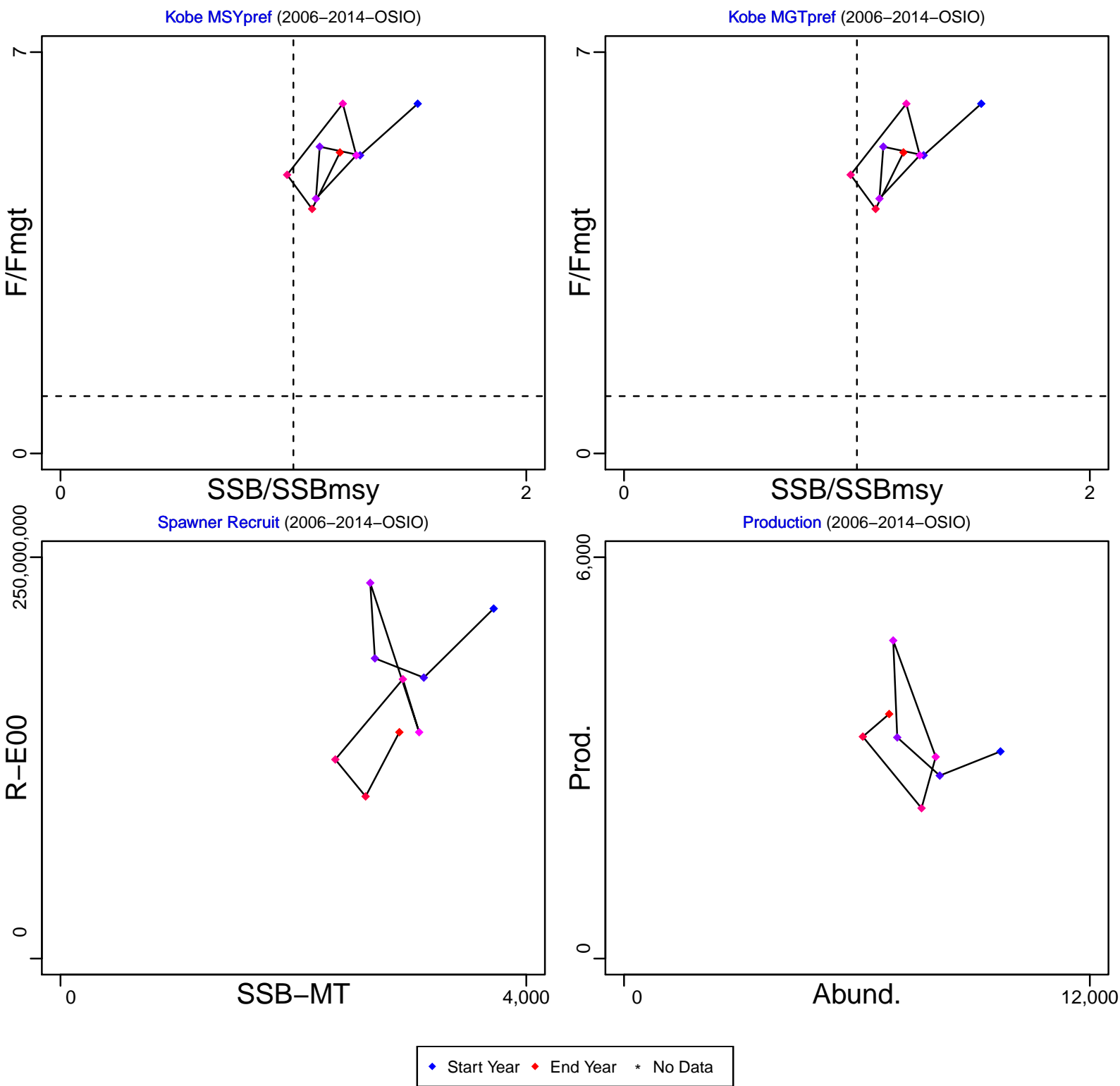
Metadata	
<b>Scientific Name</b>	Merluccius merluccius
<b>Current Assess ID</b>	STECF-HAKEMEDGSA9-11-2006-2014-OSIO
<b>Area</b>	Geographical Sub-Areas 9-11
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	2425
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.545
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	3448
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	2355
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	2910	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.41 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	1.05	-	-
<b>ER</b>	ER-calc-ratio	2014	0.405	-	-
<b>TC</b>	TC-MT	2014	3070		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.2		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.742		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	5.25		
<b>ER/ERmgt</b>	-	-	-		



# Hake Geographical Sub-Areas 9–11 [HAKEMEDGSA9–11]

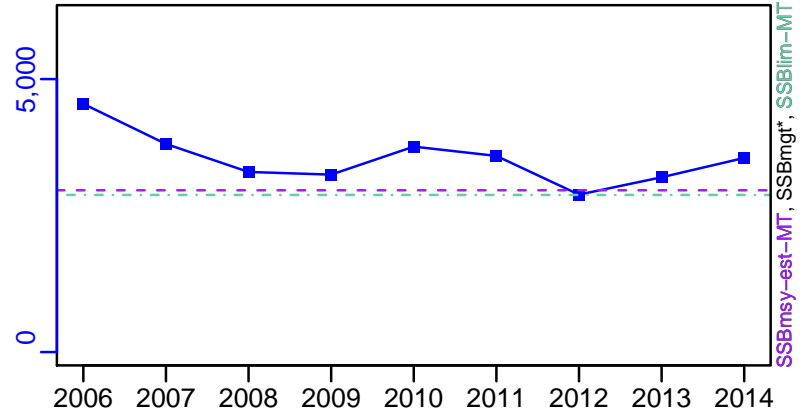


# Hake Geographical Sub-Areas 9–11 [HAKEMEDGSA9–11]

TB\*



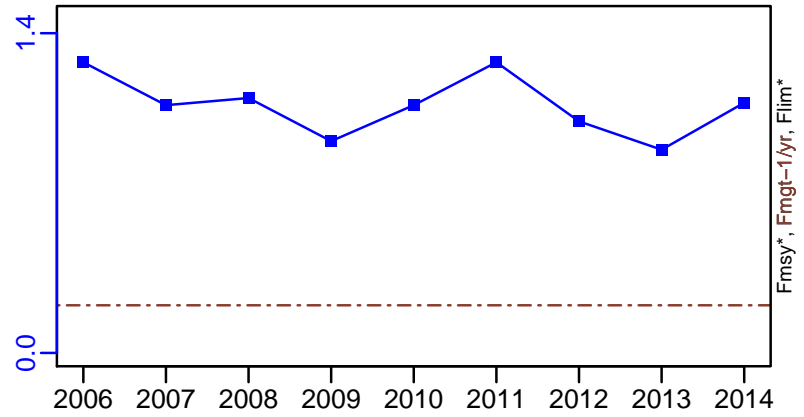
SSB-MT (2006–2014–OSIO)



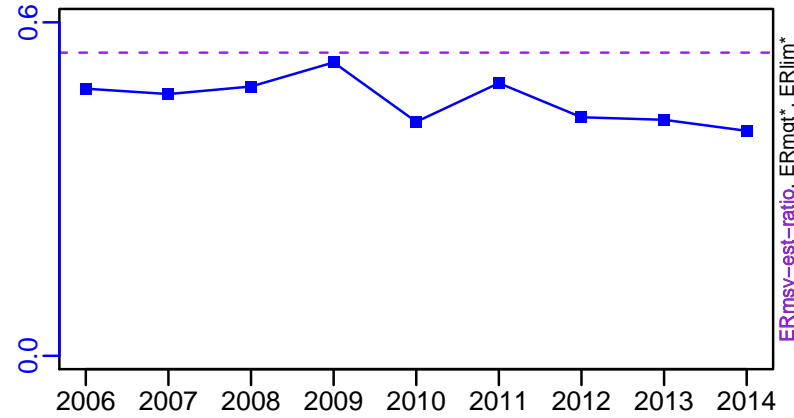
TN \*



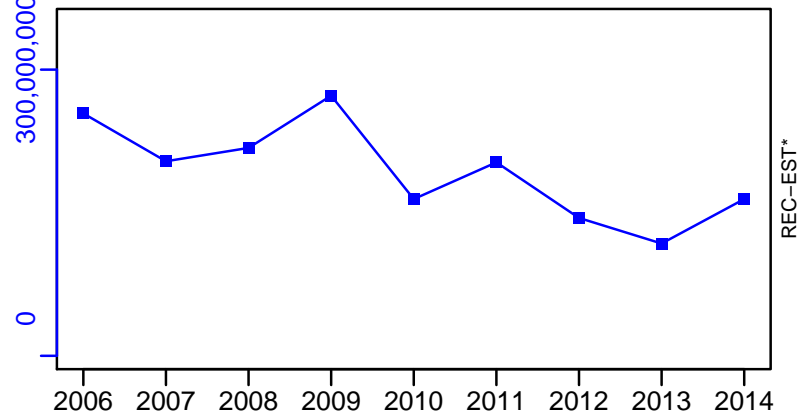
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

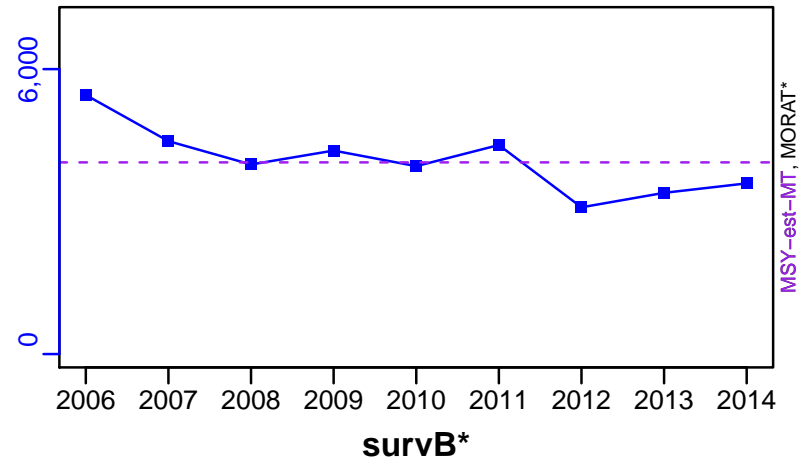


R-E00 (2006–2014–OSIO)



# Hake Geographical Sub-Areas 9–11 [HAKEMEDGSA9–11]

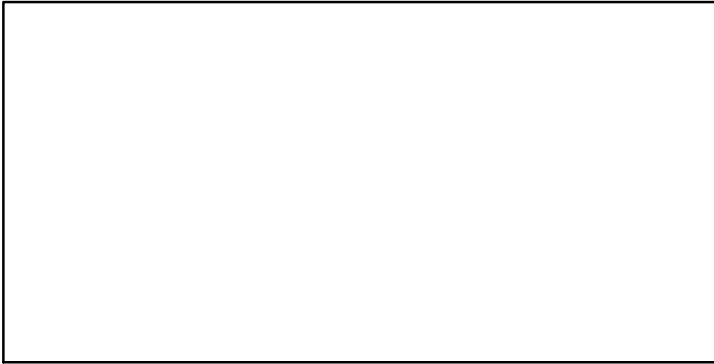
TC–MT, TL\*, RecC\* (2006–2014–OSIO)



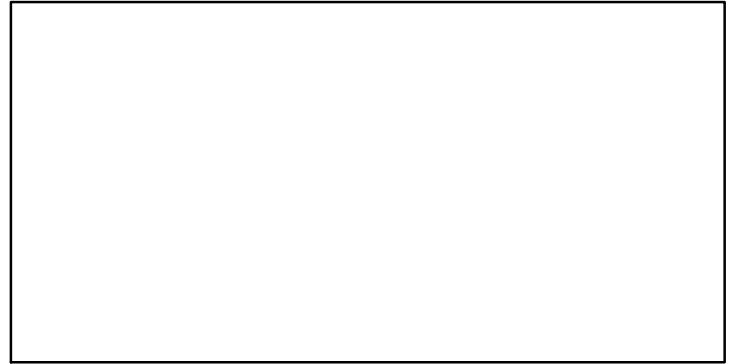
TAC\*, Cpair\*, Cadv\*



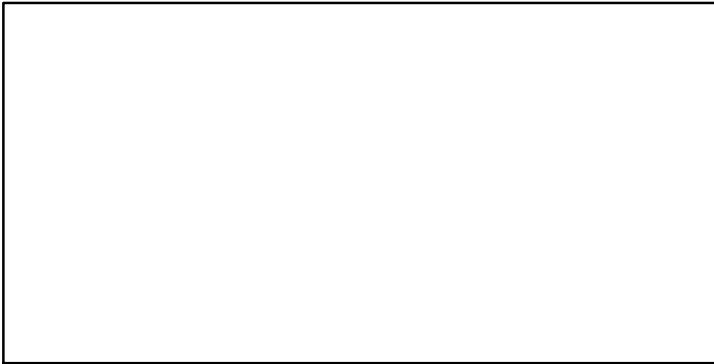
survB\*



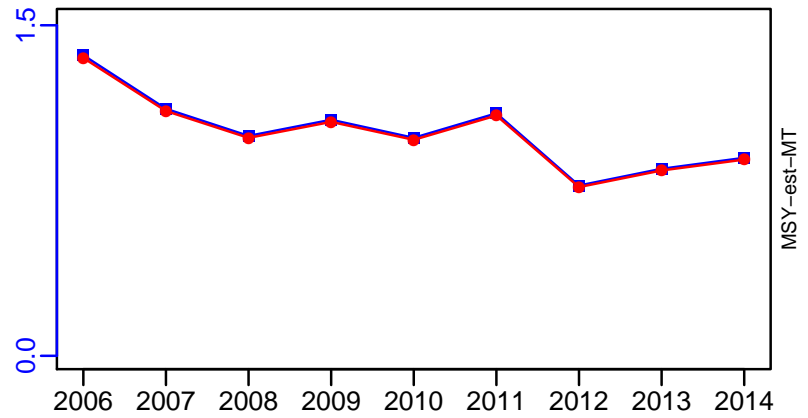
CPUE\*



EFFORT\*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (2006–2014–OSIO)



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

## Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

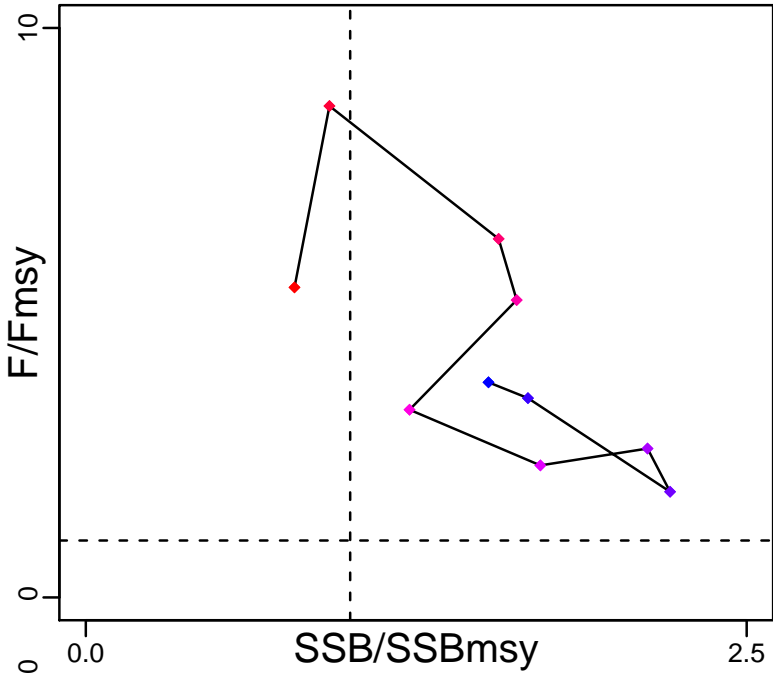
Metadata	
<b>Scientific Name</b>	Trachurus mediterraneus
<b>Current Assess ID</b>	STECF-MHMACKMEDGSA29-2005-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	23,436
<b>Fmsy</b>	Fmsy-1/yr	2014	0.27
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.253
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.27
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	20,281
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

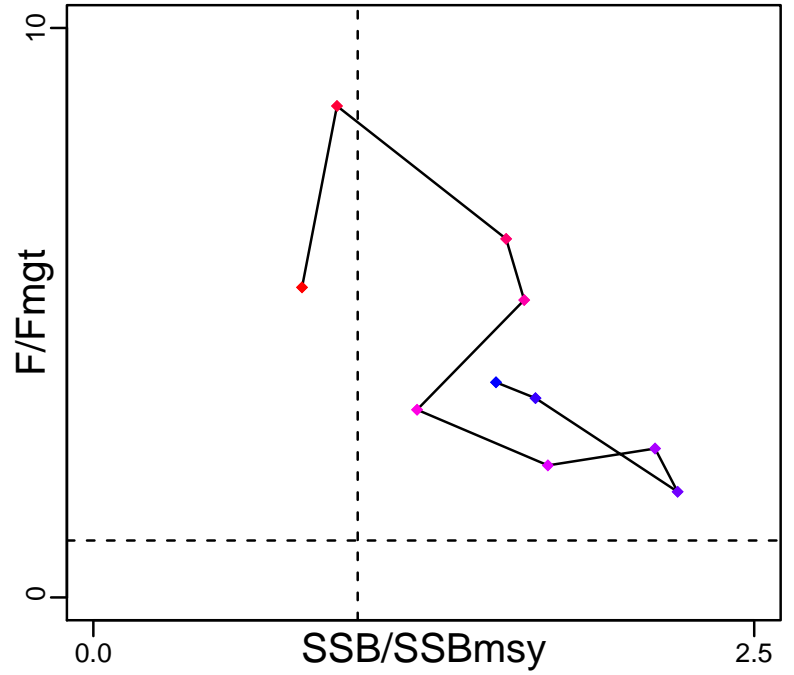
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	18,500	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$3.56 \times 10^9$	-	-
<b>F</b>	F-1/yr	2014	1.47	-	-
<b>ER</b>	ER-calc-ratio	2014	0.196	-	-
<b>TC</b>	TC-MT	2014	12,400		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.789		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	5.444		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.775		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	5.444		
<b>ER/ERmgt</b>	-	-	-		

# Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

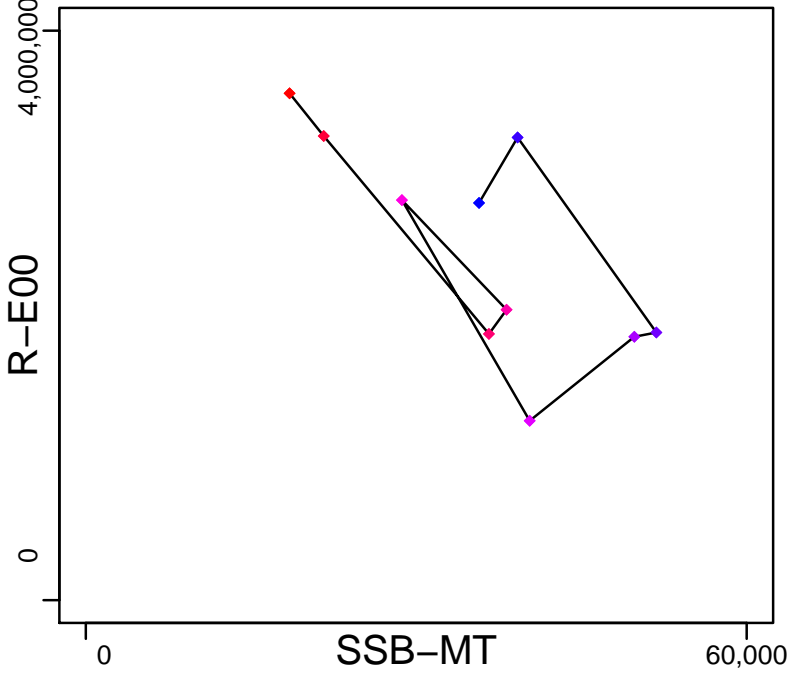
Kobe MSYpref (2005–2014–OSIO)



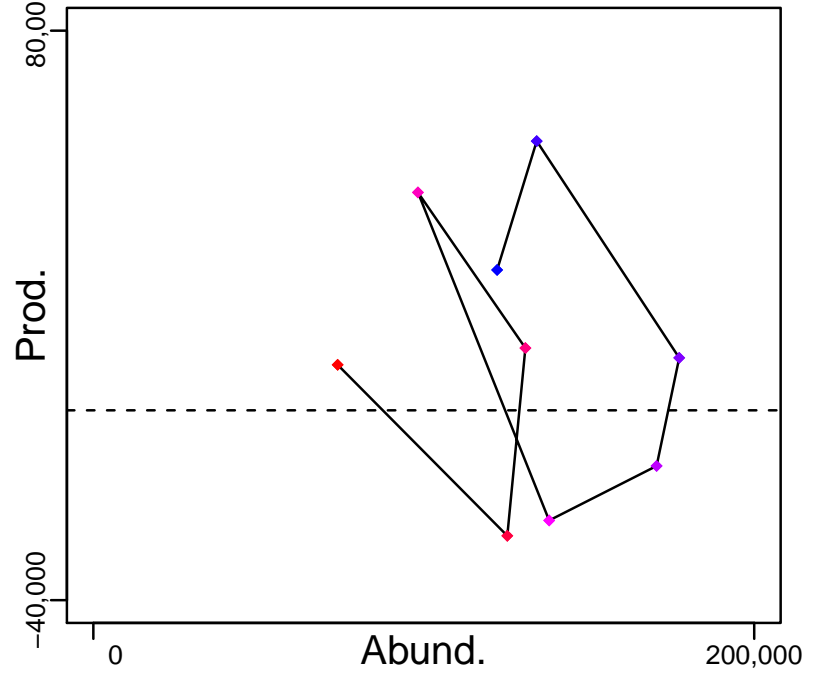
Kobe MGTpref (2005–2014–OSIO)



Spawner Recruit (2005–2014–OSIO)



Production (2005–2014–OSIO)



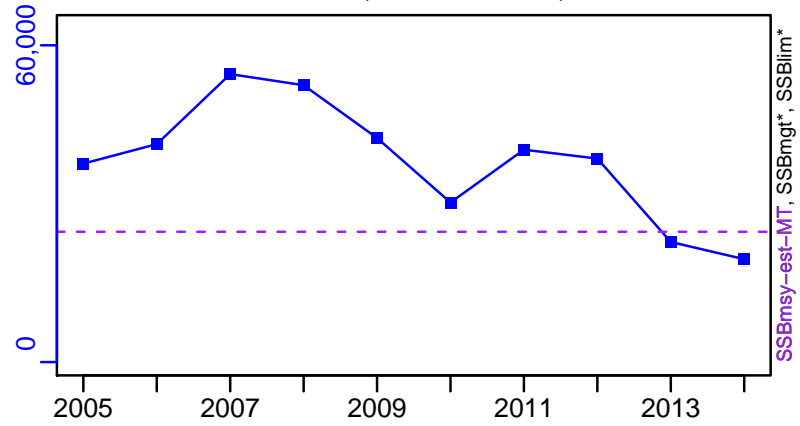
◆ Start Year ◆ End Year \* No Data

# Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

TB\*



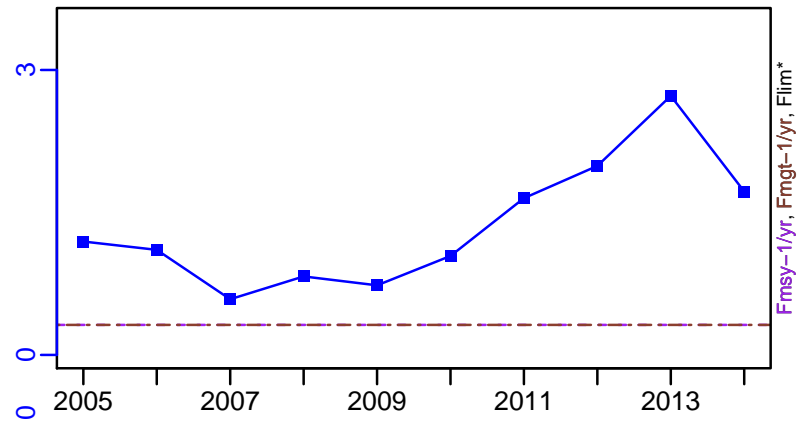
SSB-MT (2005–2014–OSIO)



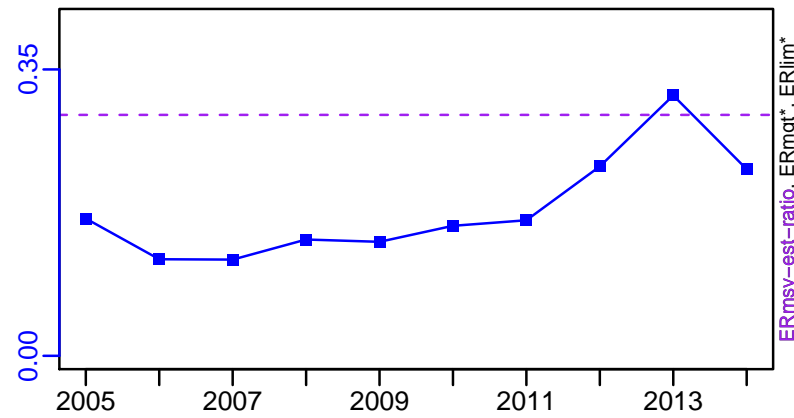
TN \*



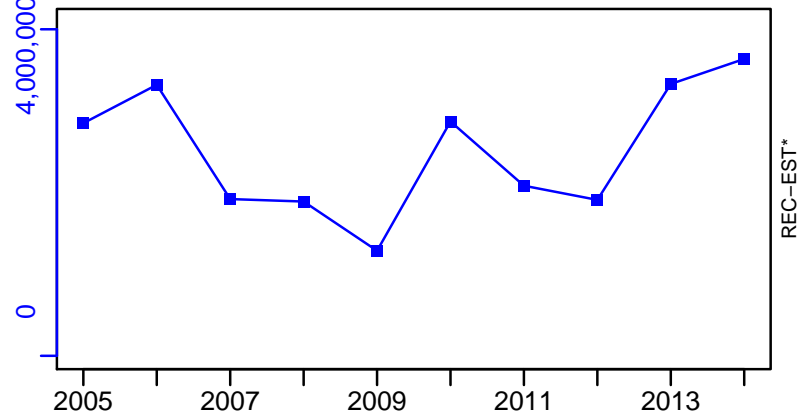
F-1/yr (2005–2014–OSIO)



ER-calc-ratio (2005–2014–OSIO)



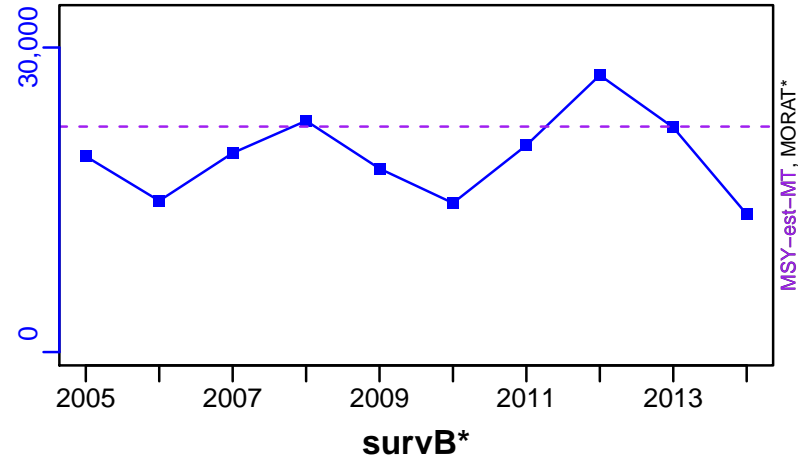
R-E00 (2005–2014–OSIO)



# Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

TC-MT, TL\*, RecC\* (2005–2014–OSIO)

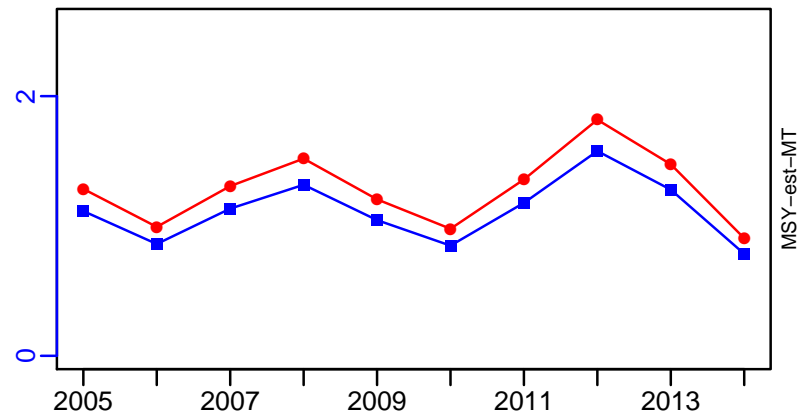
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005–2014–OSIO)



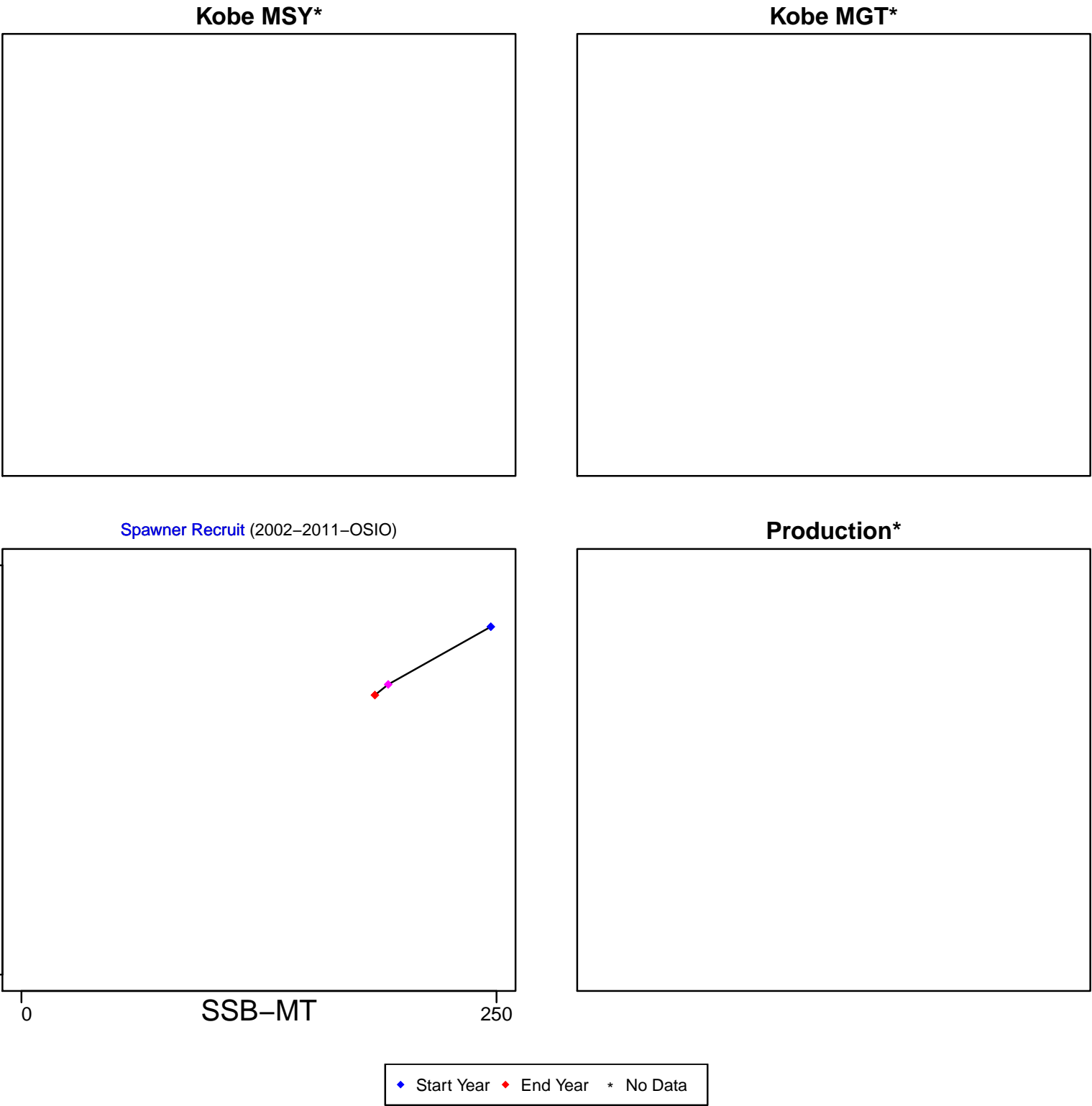
## Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA1-2002-2011-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

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>	Fmgt-1/yr	2011	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>	-	-	-

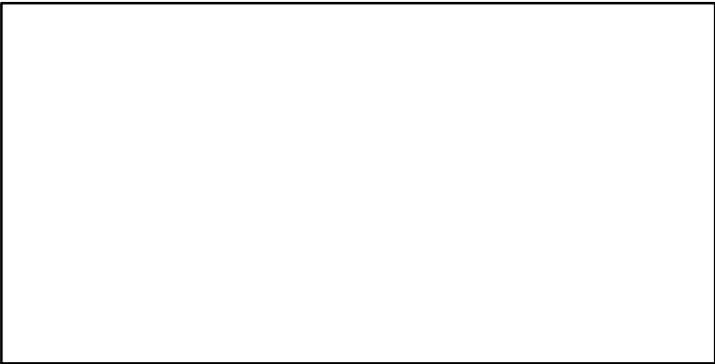
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	186	-	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	6,830,000	-	-
<b>F</b>	F-1/yr	2011	0.33	-	-
<b>ER</b>	ER-calc-ratio	2011	0.168	-	-
<b>TC</b>	TC-MT	2011	75		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	1.65		
<b>ER/ERmgt</b>	-	-	-		



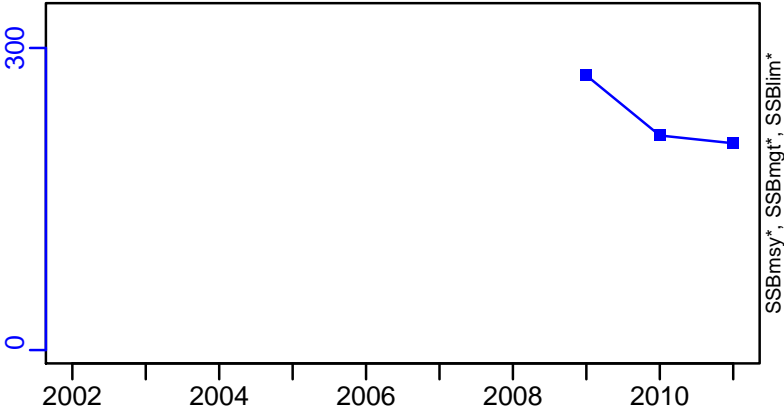


Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

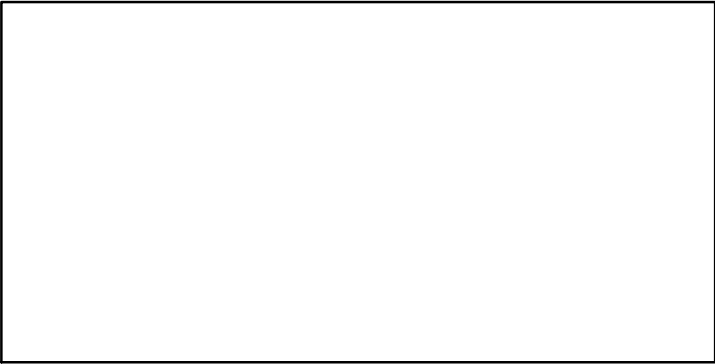
TB\*



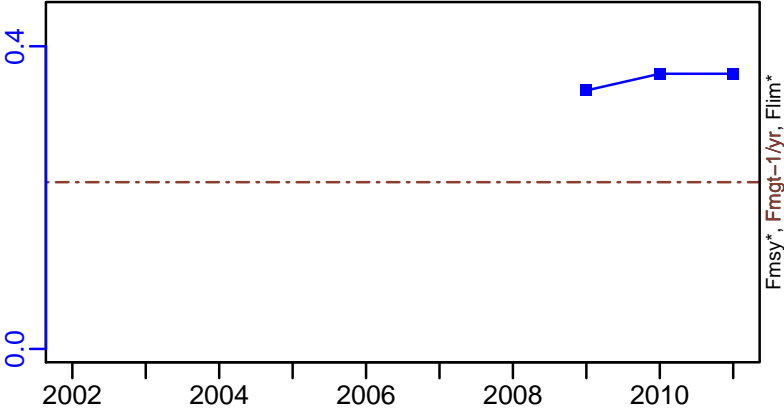
SSB-MT (2002–2011–OSIO)



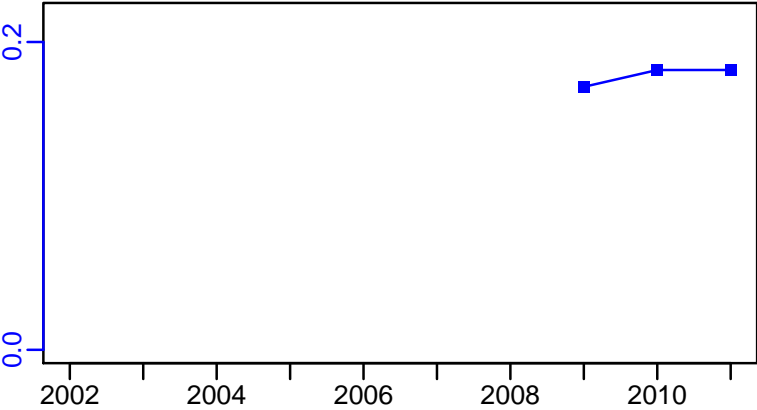
TN \*



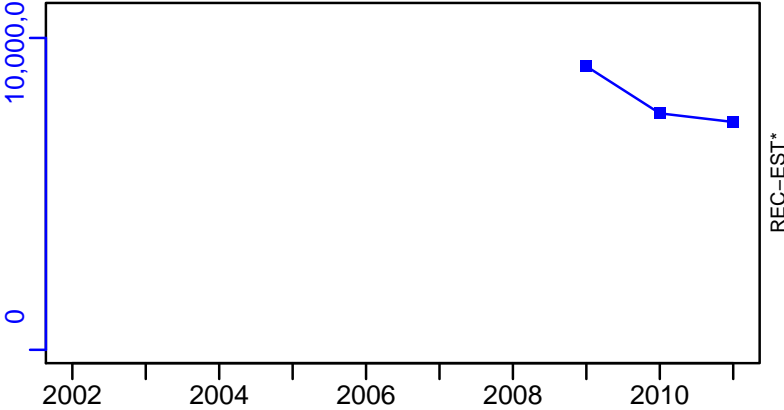
F-1/yr (2002–2011–OSIO)



ER-calc-ratio (2002–2011–OSIO)

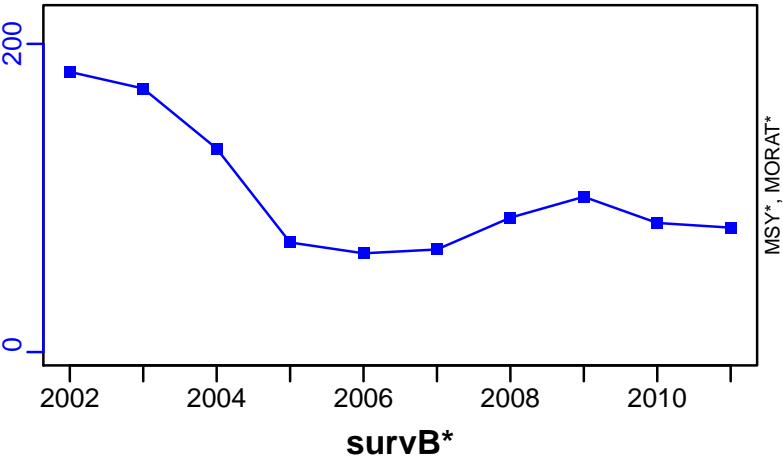


R-E00 (2002–2011–OSIO)



Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

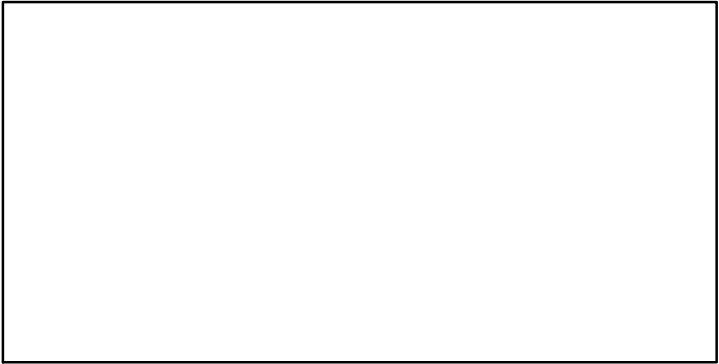
TC-MT, TL\*, RecC\* (2002-2011-OSIO)



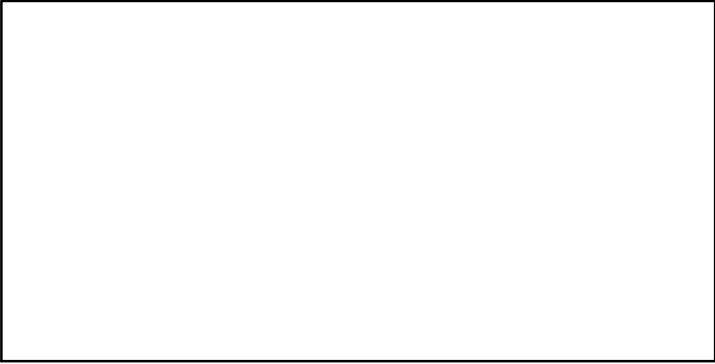
TAC\*, Cpair\*, Cadv\*



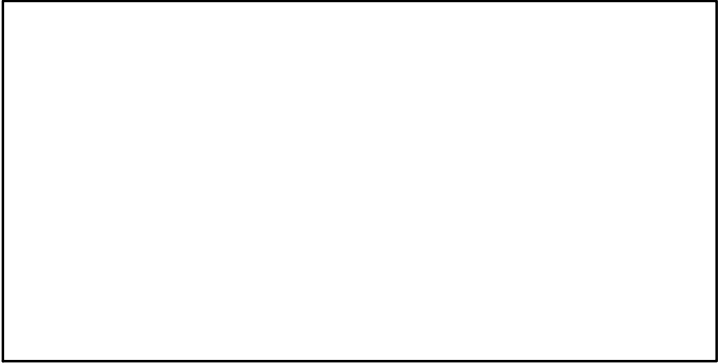
CPUE\*



EFFORT\*



CdivMSY\*



## Norway lobster Sardinia [NEPHMEDGSA11]

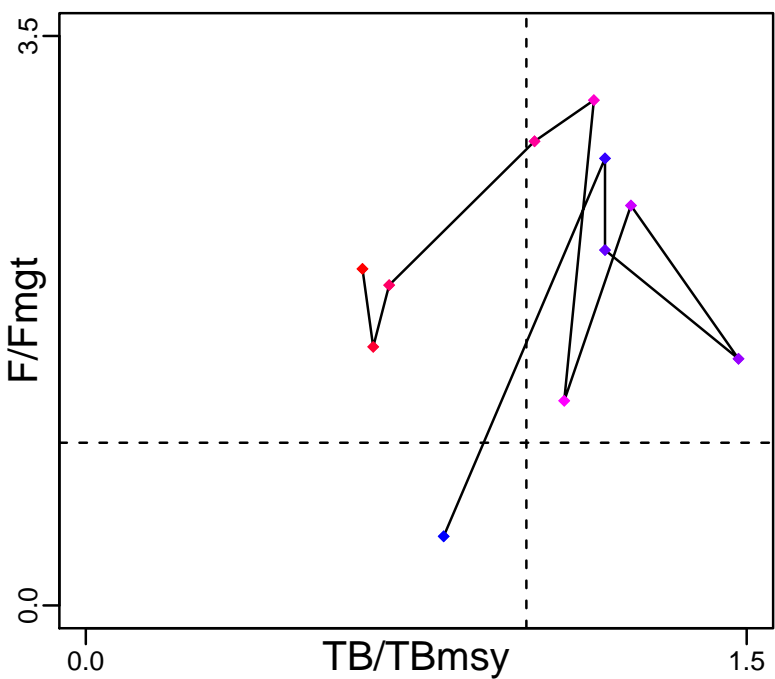
Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA11-2005-2015-OSIO
<b>Area</b>	Sardinia
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	119
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.263
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	31
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

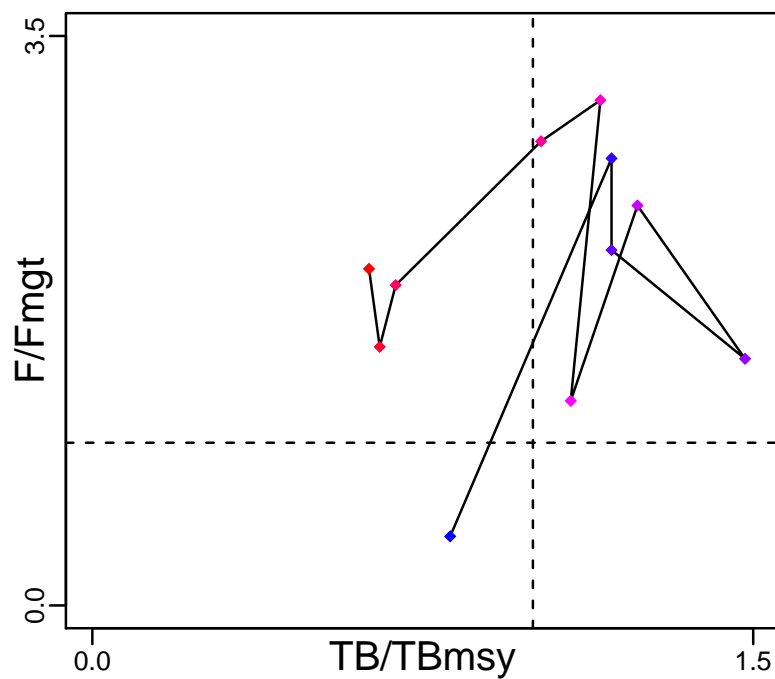
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	75	-	-
<b>SSB</b>	SSB-MT	2015	39	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	1,370,000	-	-
<b>F</b>	F-1/yr	2015	0.393	-	-
<b>ER</b>	ER-calc-ratio	2015	0.244	-	-
<b>TC</b>	TC-MT	2015	18		
<b>TL</b>	TL-MT	2015	18		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	0.628		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.929		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.068		
<b>ER/ERmgt</b>	-	-	-		

# Norway lobster Sardinia [NEPHMEDGSA11]

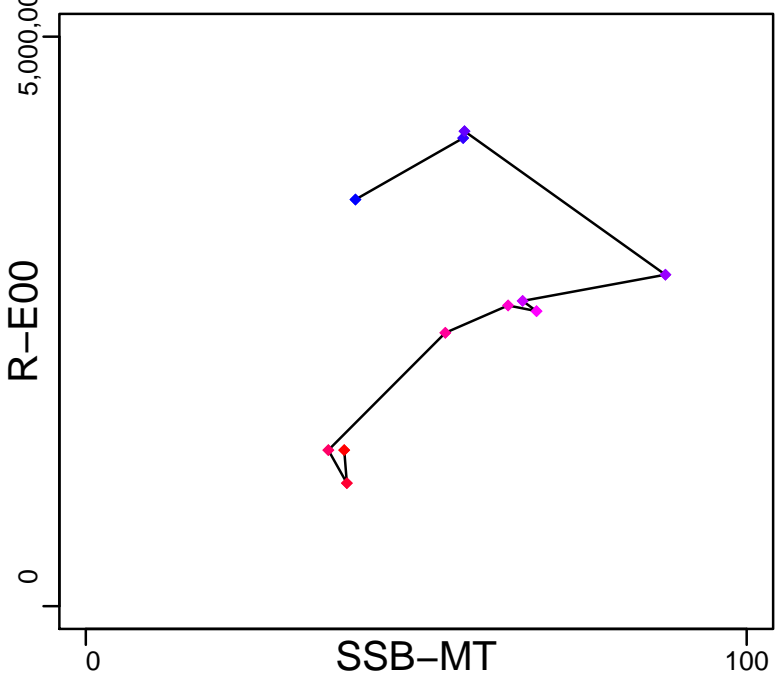
Kobe MSYpref (2005–2015–OSIO)



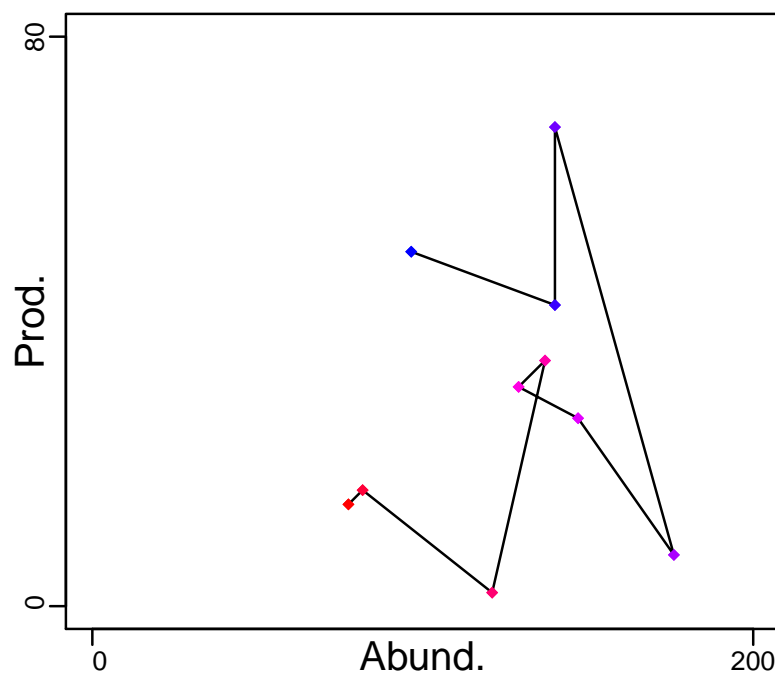
Kobe MGTpref (2005–2015–OSIO)



Spawner Recruit (2005–2015–OSIO)

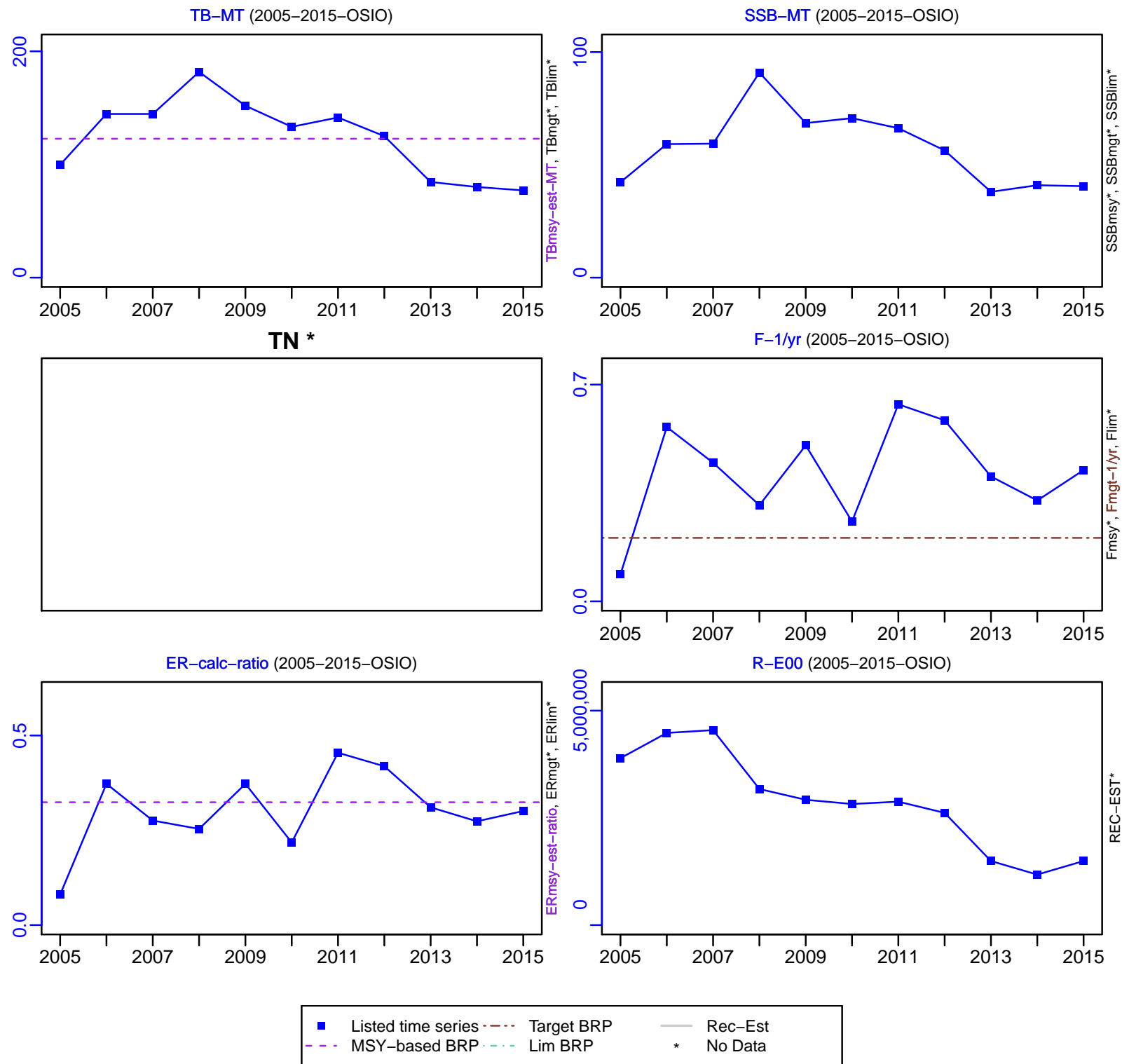


Production (2005–2015–OSIO)



◆ Start Year ◆ End Year \* No Data

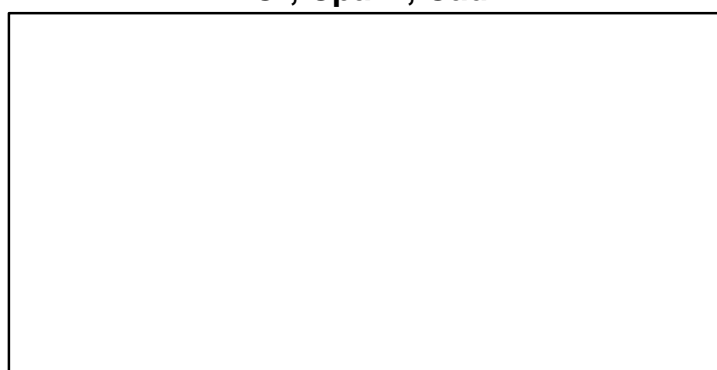
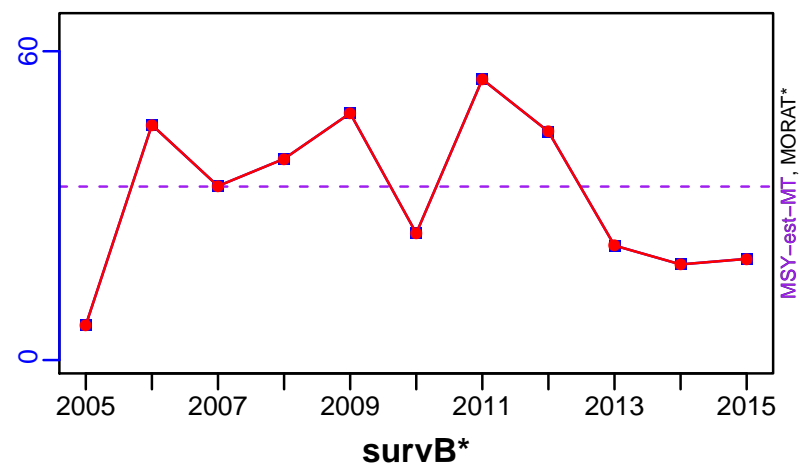
# Norway lobster Sardinia [NEPHMEDGSA11]



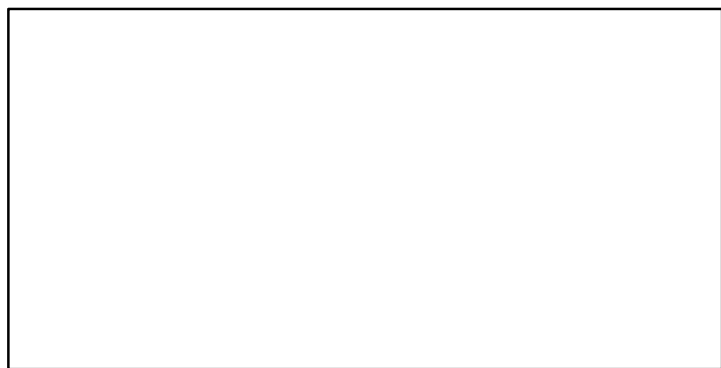
# Norway lobster Sardinia [NEPHMEDGSA11]

TC-MT, TL-MT, RecC\* (2005–2015–OSIO)

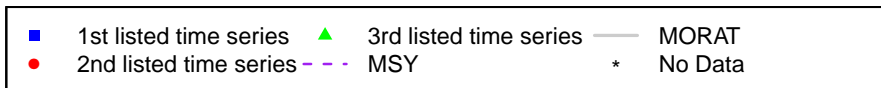
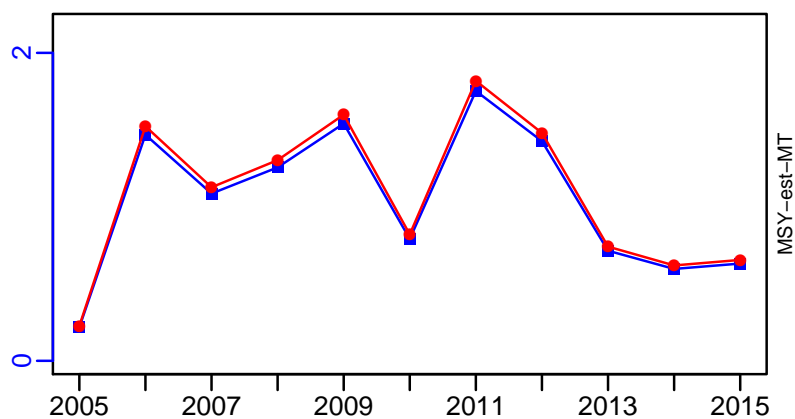
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005–2015–OSIO)



## Norway lobster Malta Island and South of Sicily (GSA 15, 16) [NEPHMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA15-16-2002-2012-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

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>	Fmgt-1/yr	2012	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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	1890	-	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	22,400,000	-	-
<b>F</b>	F-1/yr	2012	0.15	-	-
<b>ER</b>	ER-calc-ratio	2012	0.098	-	-
<b>TC</b>	TC-MT	2012	444		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2012	0.75		
<b>ER/ERmgt</b>	-	-	-		



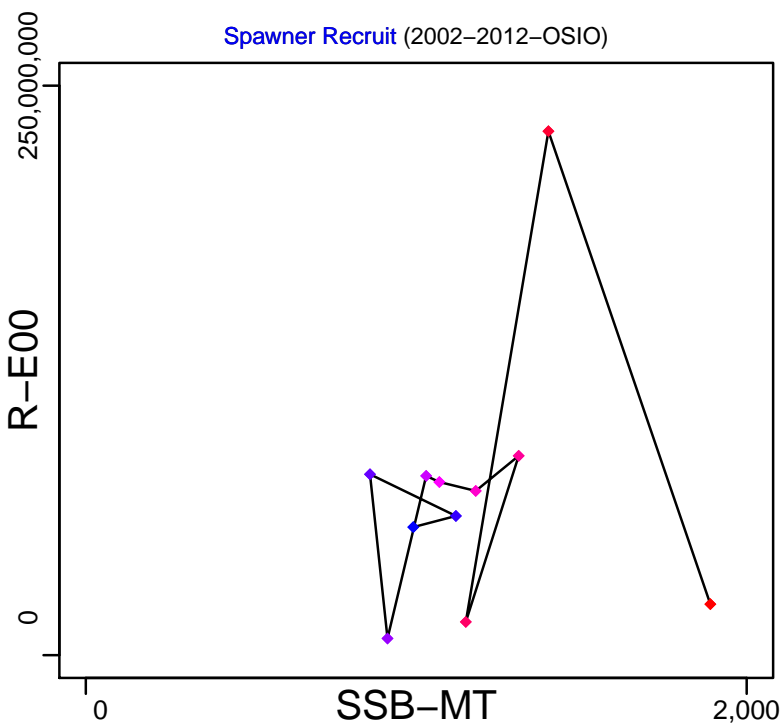
Kobe MSY\*



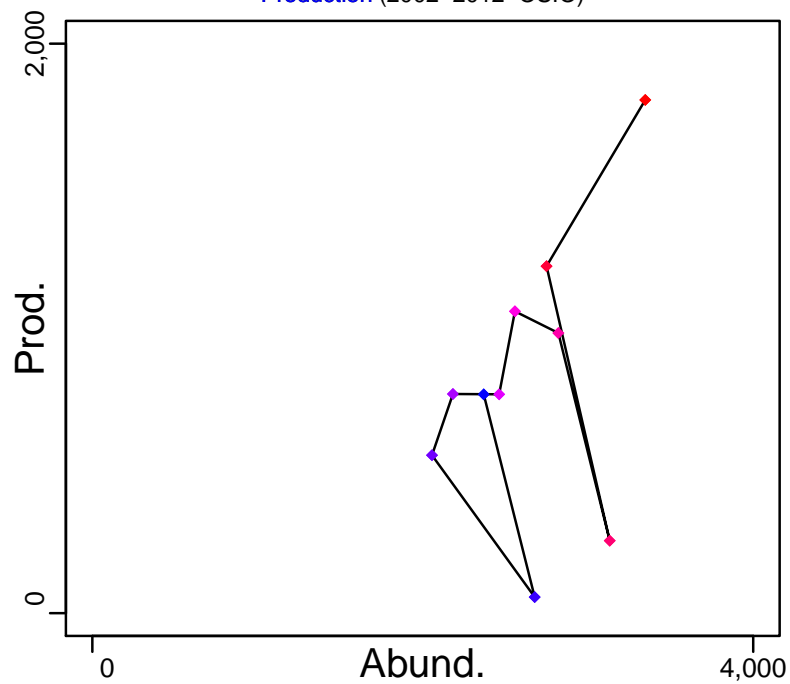
Kobe MGT\*



Spawner Recruit (2002-2012-OSIO)



Production (2002-2012-OSIO)



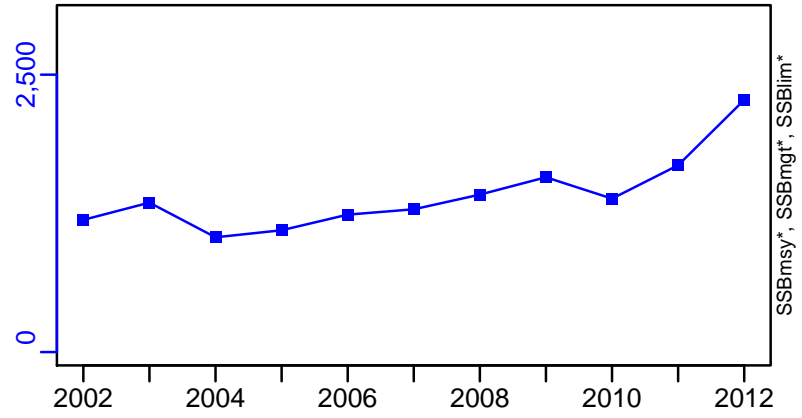
◆ Start Year ◆ End Year \* No Data

Norway lobster Malta Island and South of Sicily (GSA 15, 16) [NEPHMEDGSA15-16]

TB\*



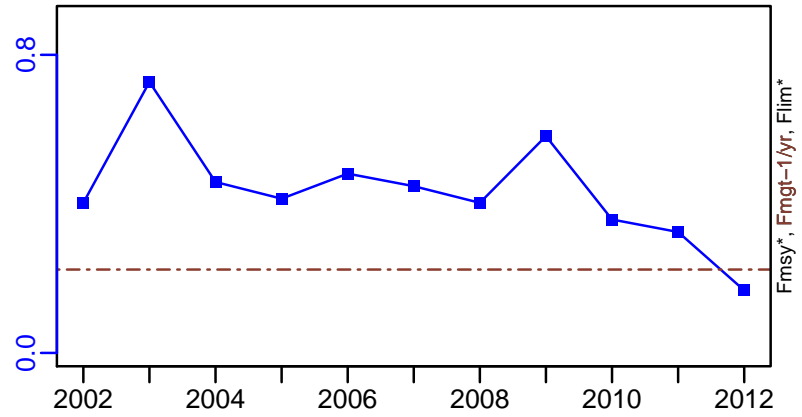
SSB-MT (2002-2012-OSIO)



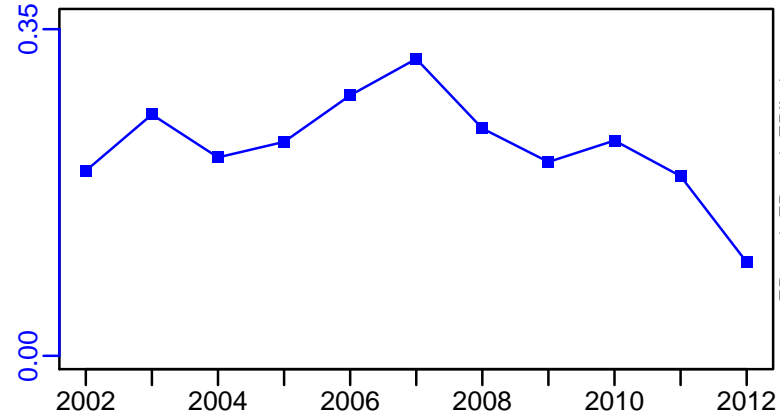
TN \*



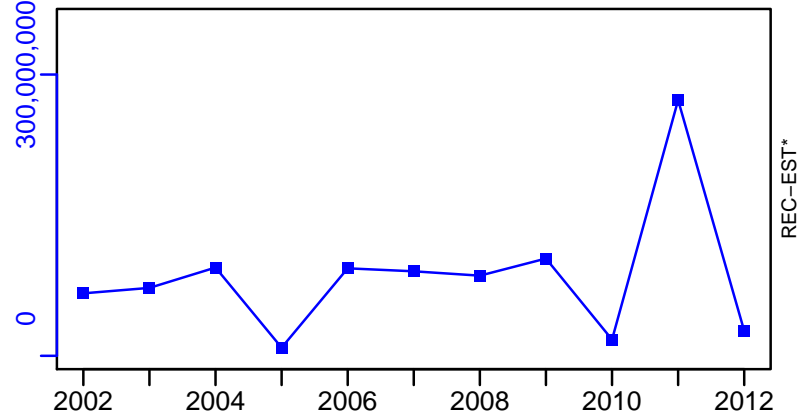
F-1/yr (2002-2012-OSIO)



ER-calc-ratio (2002-2012-OSIO)



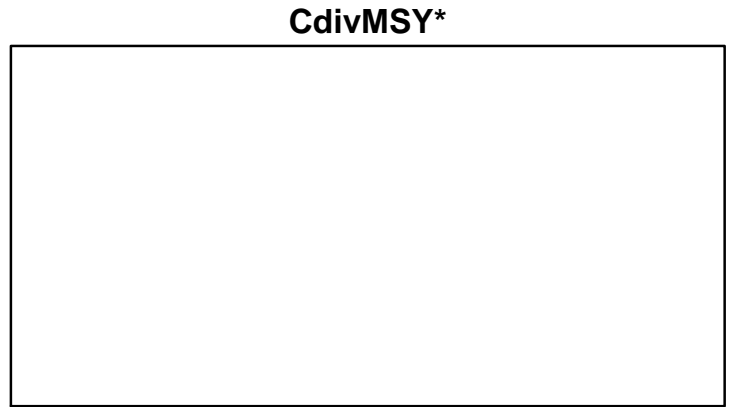
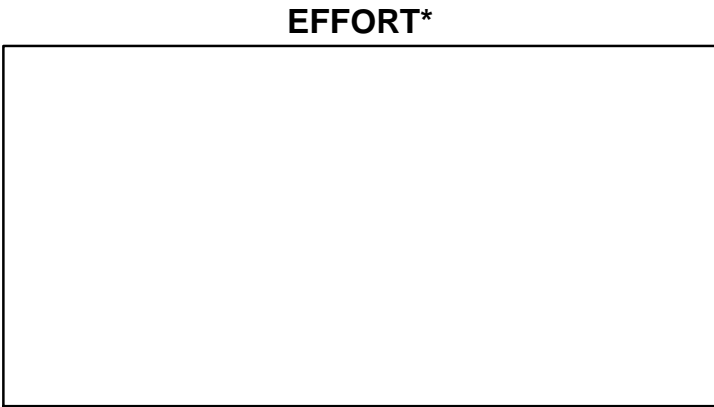
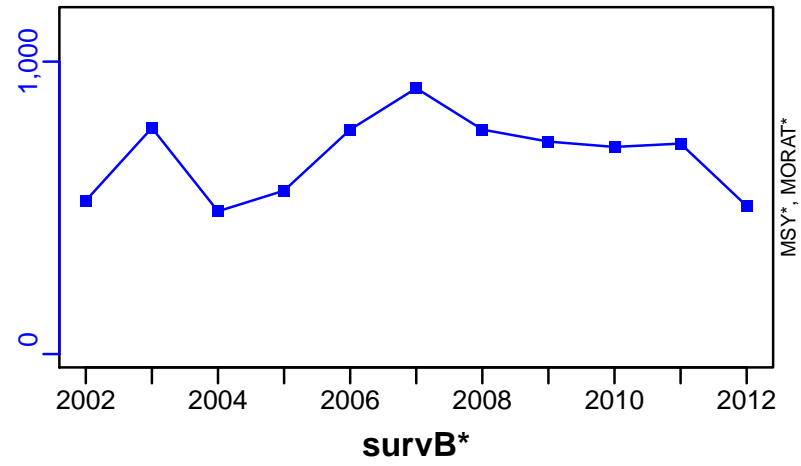
R-E00 (2002-2012-OSIO)



Norway lobster Malta Island and South of Sicily (GSA 15, 16) [NEPHMEDGSA15–16]

TC-MT, TL\*, RecC\* (2002–2012–OSIO)

TAC\*, Cpair\*, Cadv\*



## Norway lobster Adriatic Sea (GSA 17,18) [NEPHMEDGSA17-18]

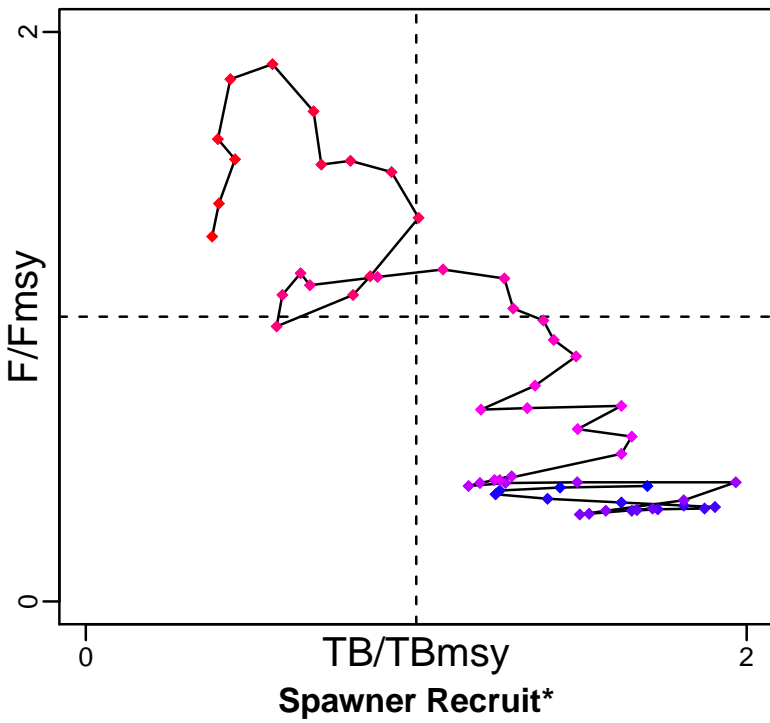
Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA17-18-1960-2015-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2015	6355
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2015	0.38
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.34
<b>TBmgt</b>	TBmgt-MT	2015	6355
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.38
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	2163
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

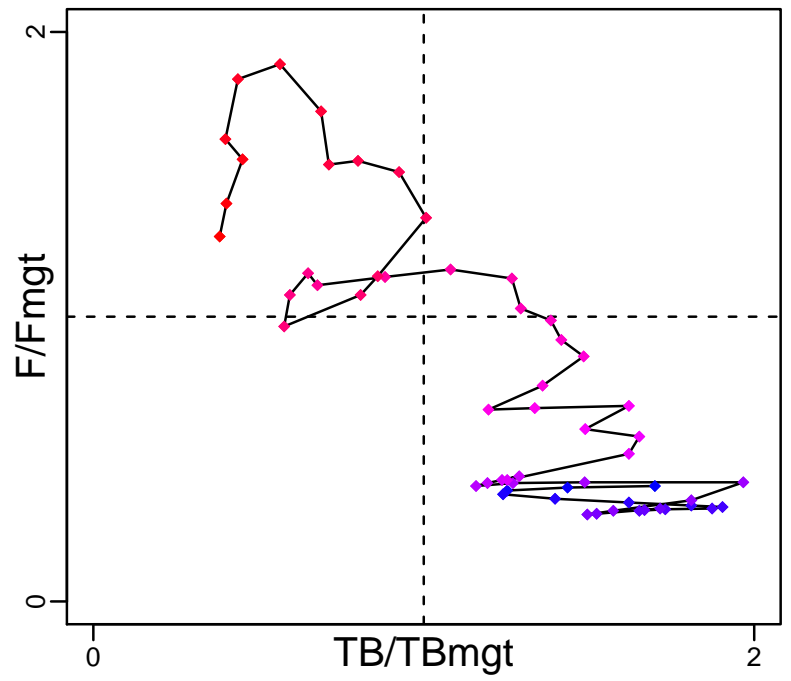
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	2430	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2015	0.487	-	-
<b>ER</b>	ER-calc-ratio	2015	0.49	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	1190		
<b>TB/TBmsy</b>	TB-MT/TBmsy-MT	2015	0.382		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	1.282		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	1.439		
<b>TB/TBmgt</b>	TB-MT/TBmgt-MT	2015	0.382		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.282		
<b>ER/ERmgt</b>	-	-	-		

# Norway lobster Adriatic Sea (GSA 17,18) [NEPHMEDGSA17-18]

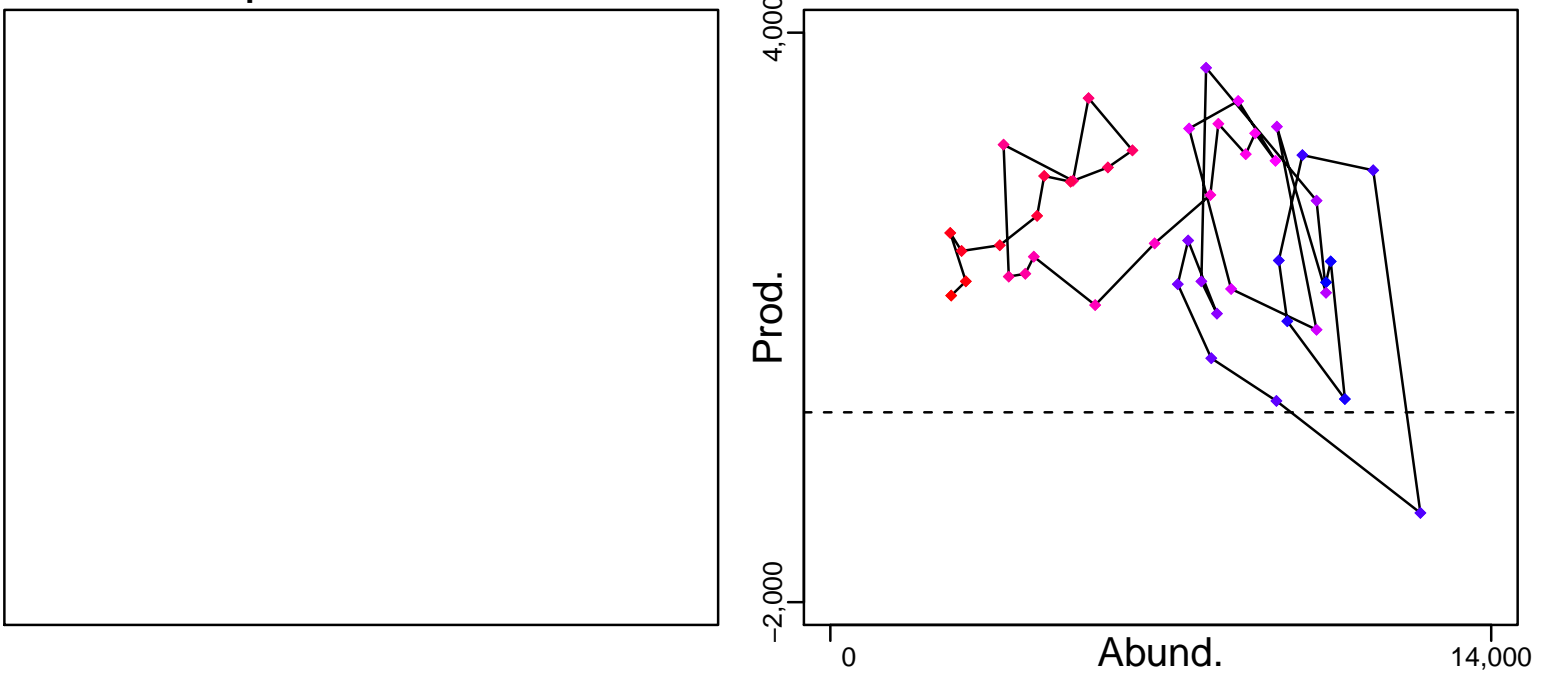
Kobe MSYpref (1960-2015-OSIO)



Kobe MGTpref (1960-2015-OSIO)

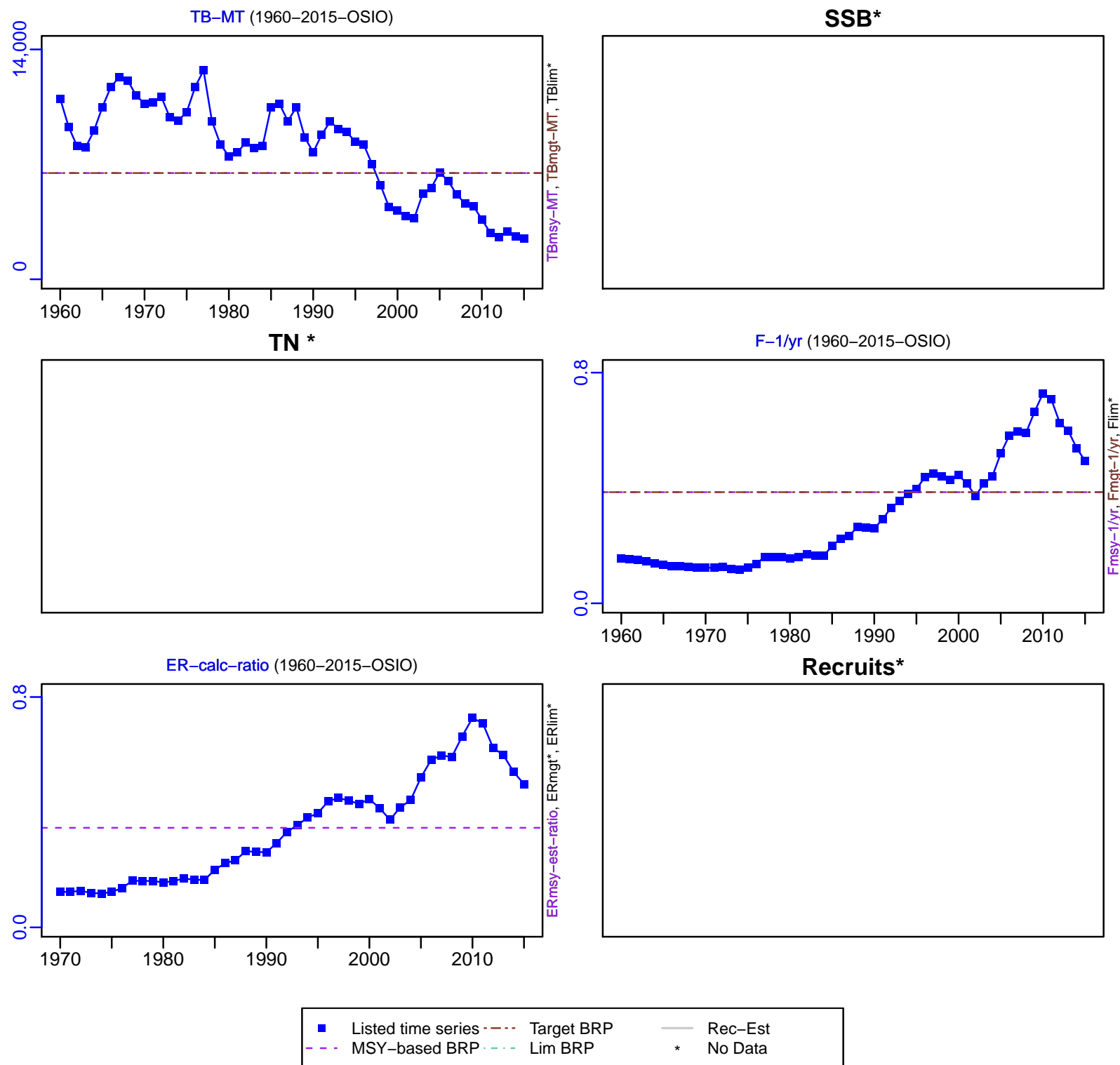


Production (1960-2015-OSIO)



◆ Start Year ◆ End Year \* No Data

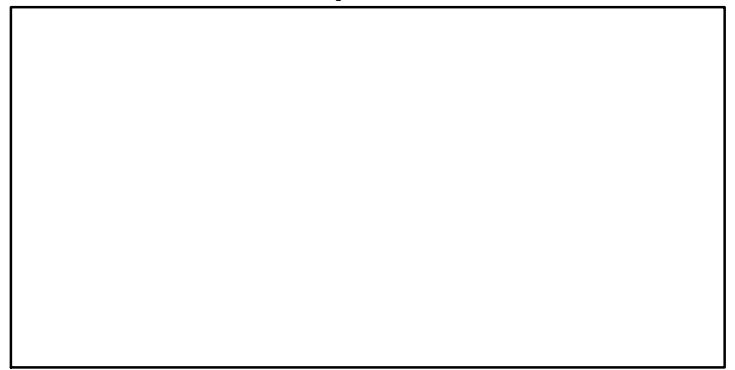
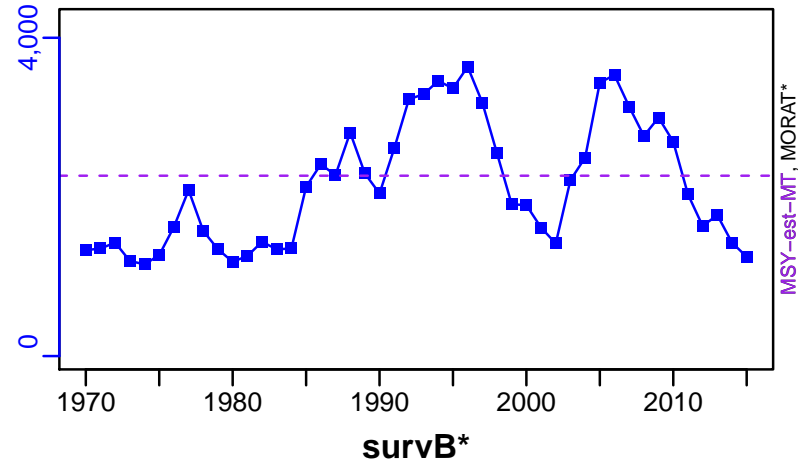
# Norway lobster Adriatic Sea (GSA 17,18) [NEPHMEDGSA17-18]



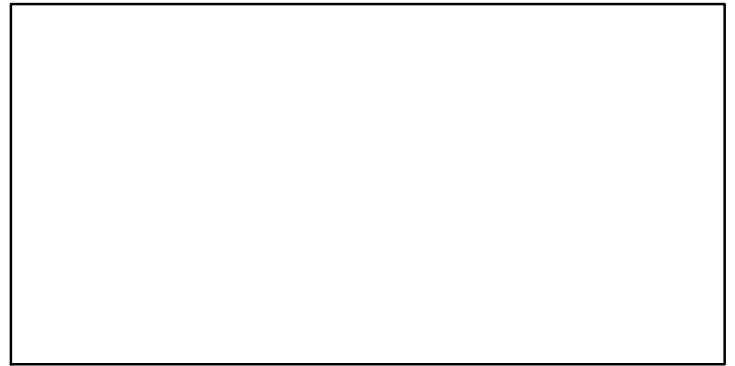
# Norway lobster Adriatic Sea (GSA 17,18) [NEPHMEDGSA17-18]

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

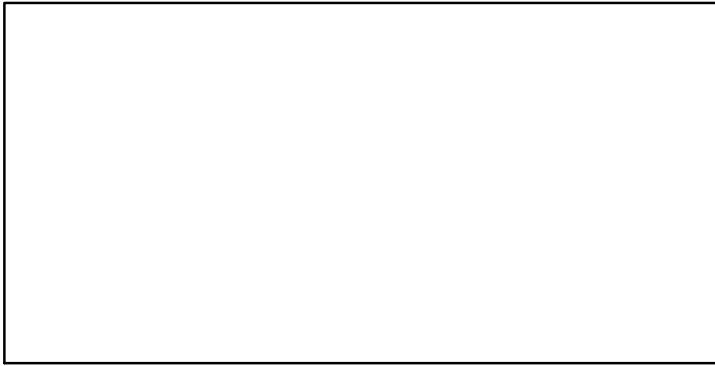
TAC\*, Cpair\*, Cadv\*



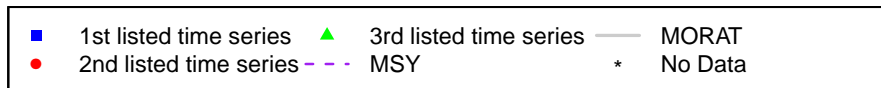
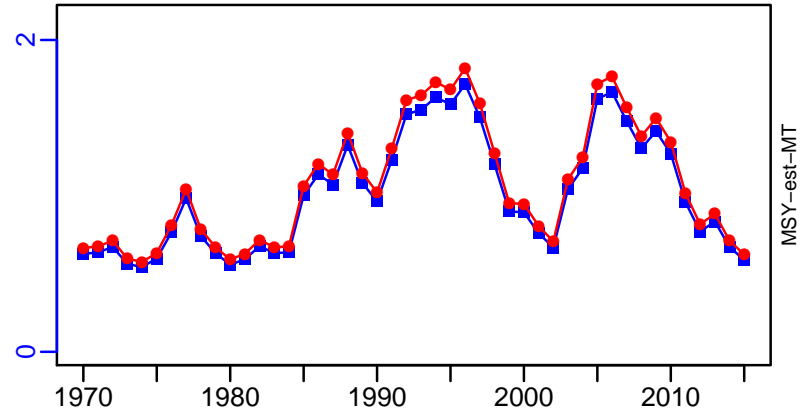
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1960-2015-OSIO)



## Norway lobster Balearic Island [NEPHMEDGSA5]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA5-2002-2013-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2013

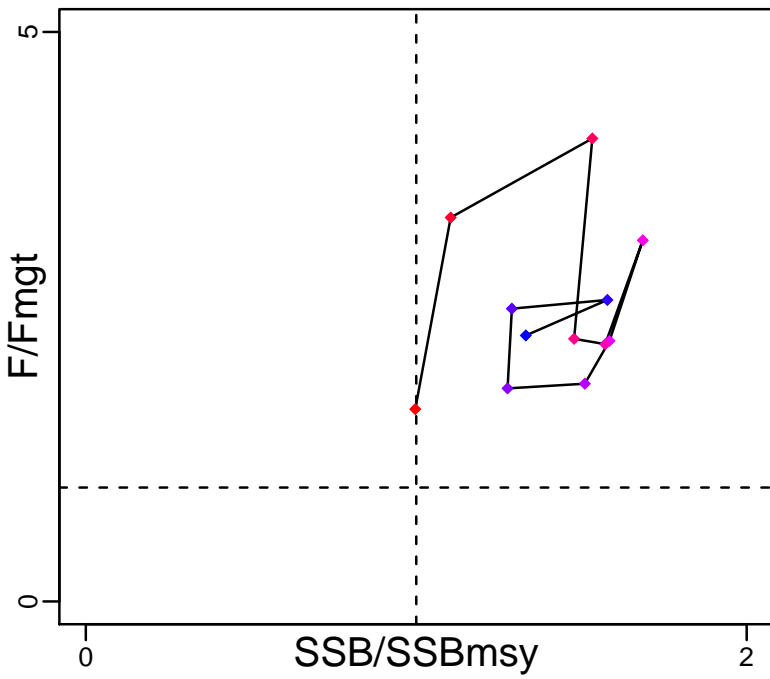
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2011	157
<b>SSBmsy</b>	SSBmsy-est-MT	2013	31
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.326
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.17
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	23
<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	2011	100	-	-
<b>SSB</b>	SSB-MT	2013	31	-	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	1,620,000	-	-
<b>F</b>	F-1/yr	2013	0.287	-	-
<b>ER</b>	ER-calc-ratio	2013	0.135	-	-
<b>TC</b>	TC-MT	2013	10		
<b>TL</b>	TL-MT	2011	32		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2011	0.639		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	0.997		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	0.415		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	1.688		
<b>ER/ERmgt</b>	-	-	-		

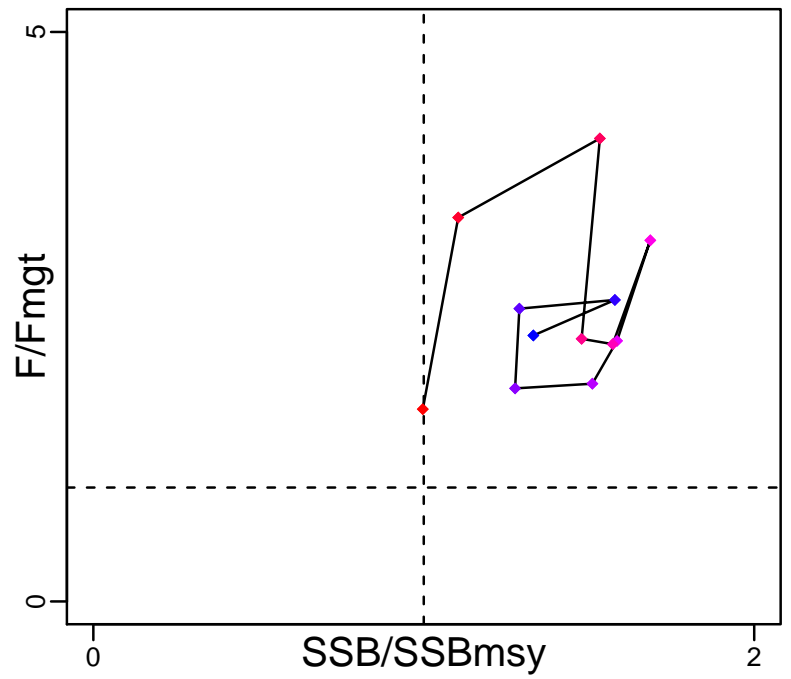


# Norway lobster Balearic Island [NEPHMEDGSA5]

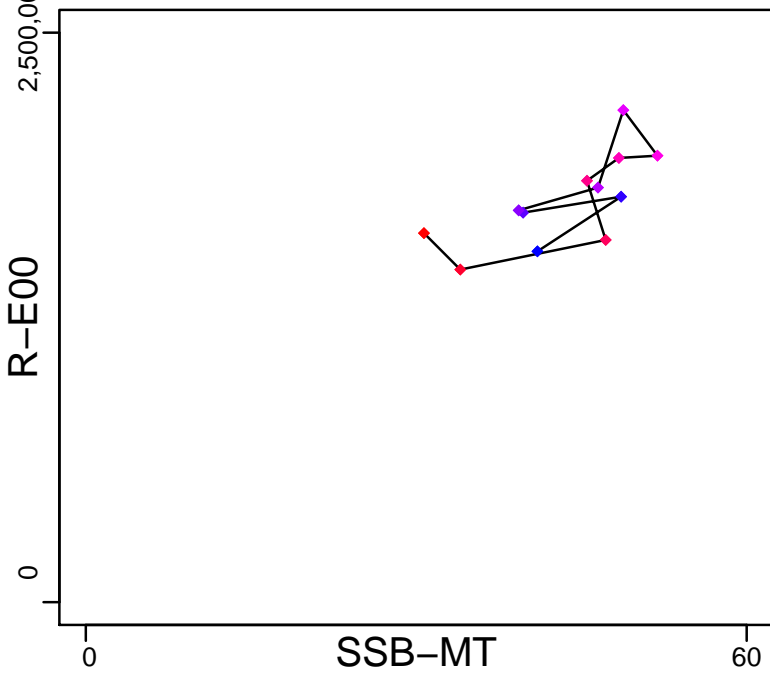
Kobe MSYpref (2002–2013–OSIO)



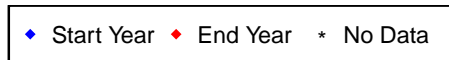
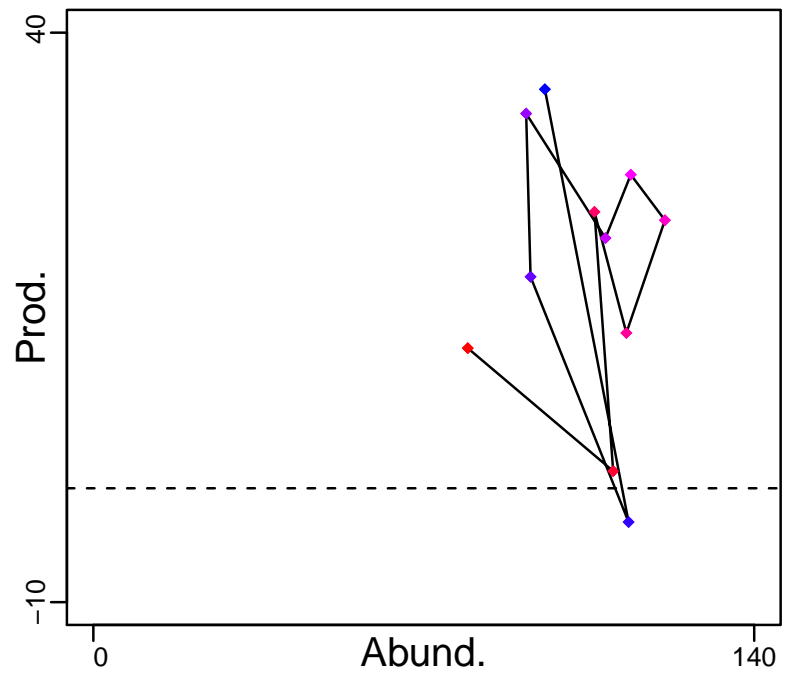
Kobe MGTpref (2002–2013–OSIO)



Spawner Recruit (2002–2013–OSIO)

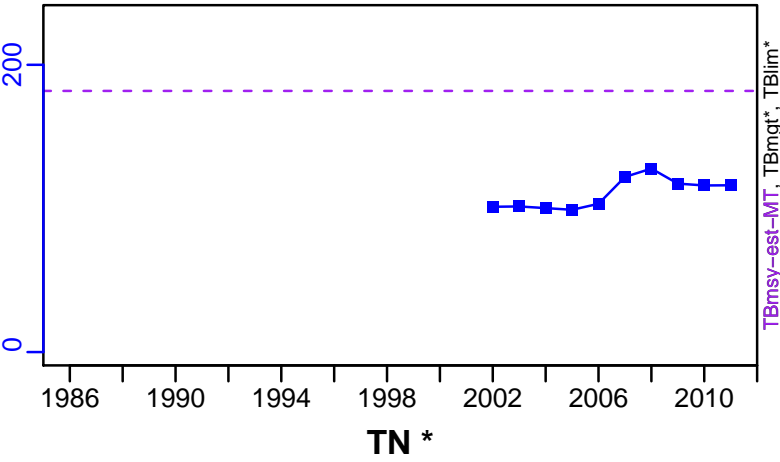


Production (2002–2013–OSIO)

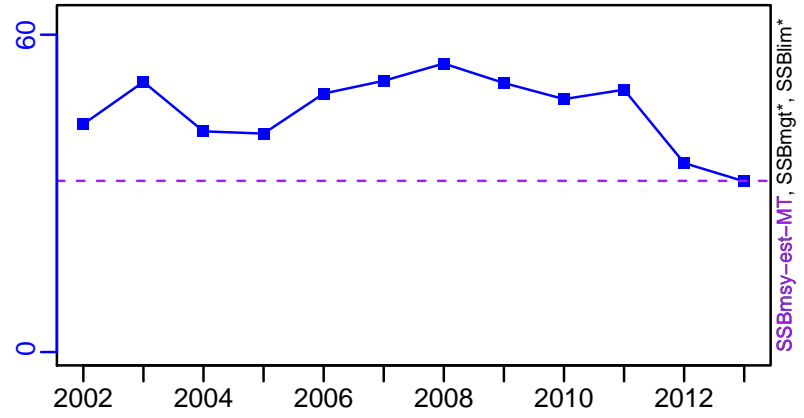


# Norway lobster Balearic Island [NEPHMEDGSA5]

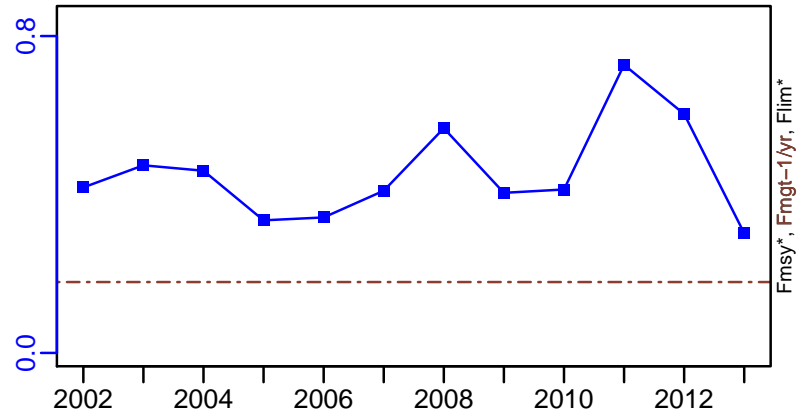
TB-MT (1986–2011–BANOB1)



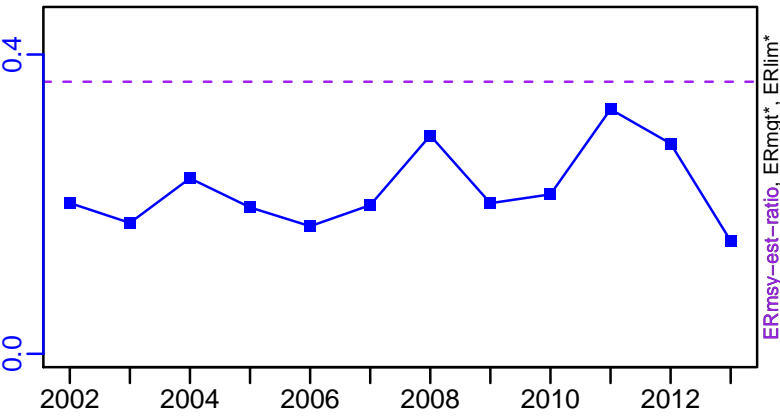
SSB-MT (2002–2013–OSIO)



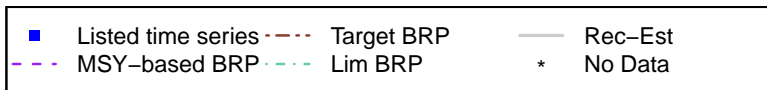
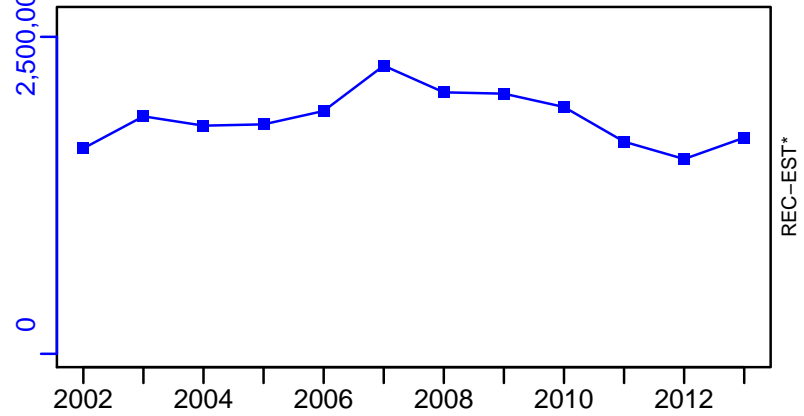
F-1/yr (2002–2013–OSIO)



ER-calc-ratio (2002–2013–OSIO)

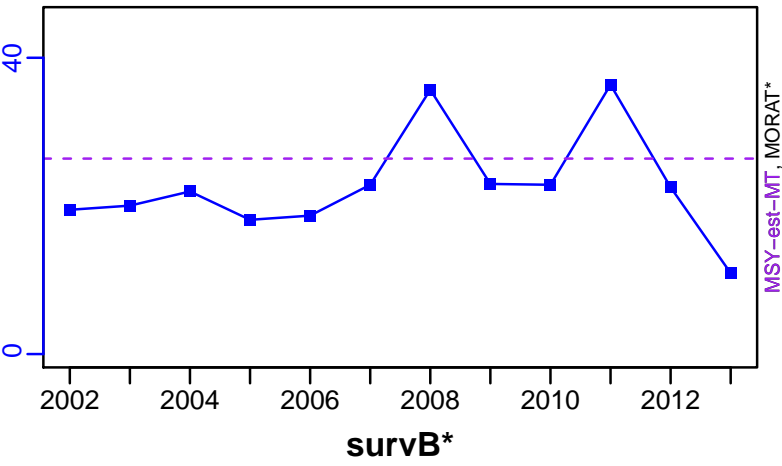


R-E00 (2002–2013–OSIO)



# Norway lobster Balearic Island [NEPHMEDGSA5]

TC-MT, TL\*, RecC\* (2002–2013–OSIO)



TAC\*, Cpair\*, Cadv\*



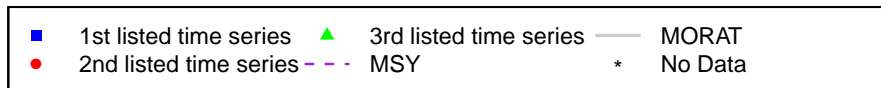
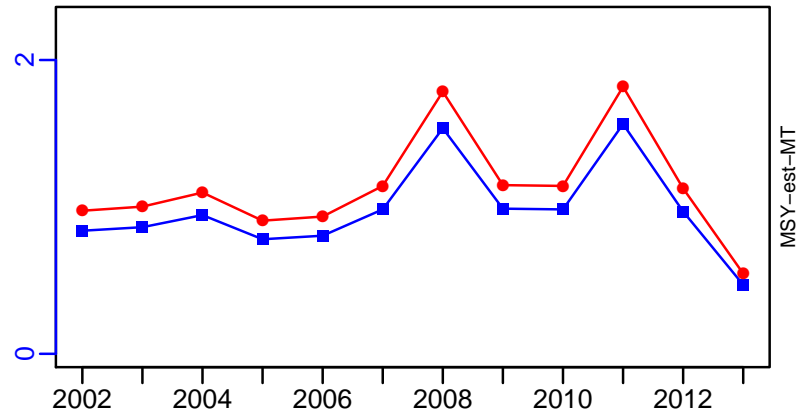
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002–2013–OSIO)



## Norway lobster Northern Spain [NEPHMEDGSA6]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA6-2002-2015-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2015

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>	Fmgt-1/yr	2015	0.175
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	476	-	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	59,700,000	-	-
<b>F</b>	F-1/yr	2015	1.66	-	-
<b>ER</b>	ER-calc-ratio	2011	0.437	-	-
<b>TC</b>	TC-MT	2011	497		
<b>TL</b>	TL-MT	2015	355		
<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>	F-1/yr/Fmgt-1/yr	2015	9.486		
<b>ER/ERmgt</b>	-	-	-		

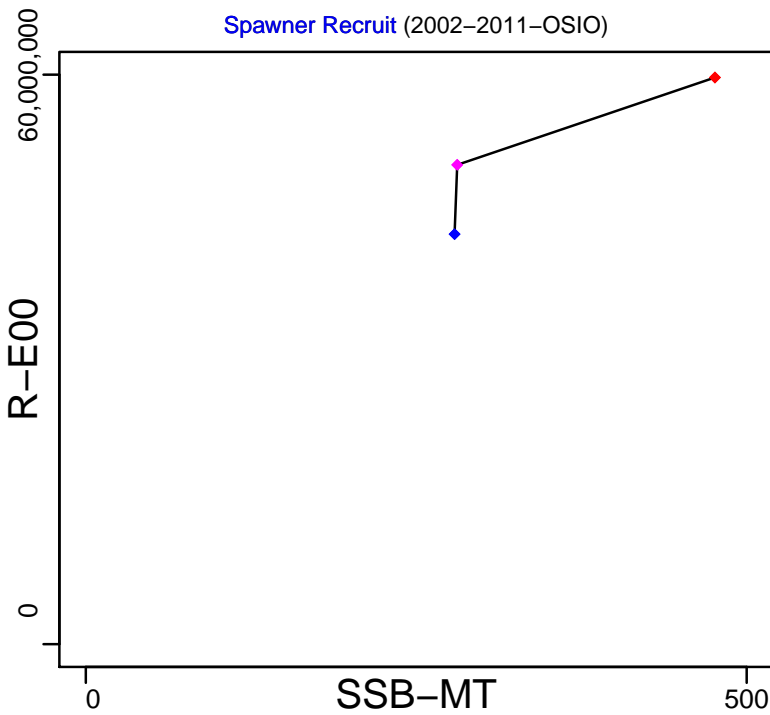
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2002–2011–OSIO)



Production\*



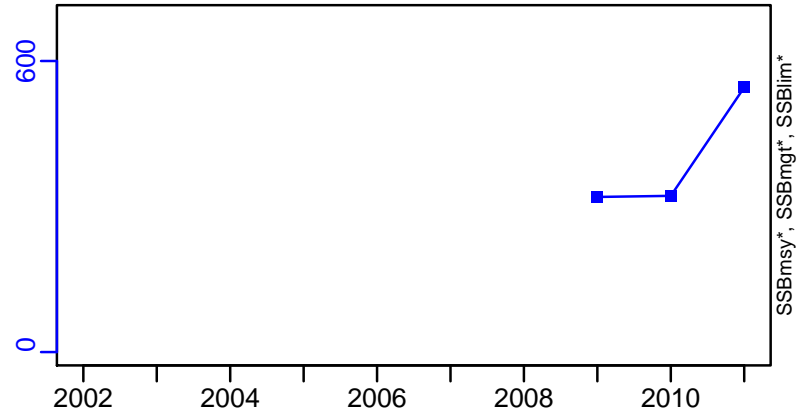
◆ Start Year ◆ End Year \* No Data

# Norway lobster Northern Spain [NEPHMEDGSA6]

TB\*



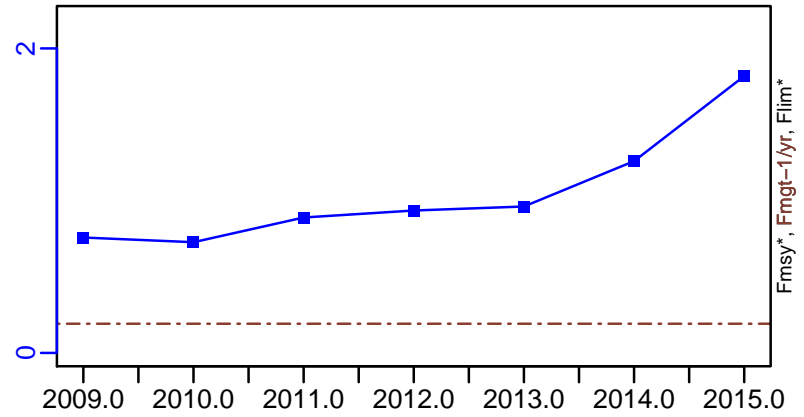
SSB-MT (2002–2011–OSIO)



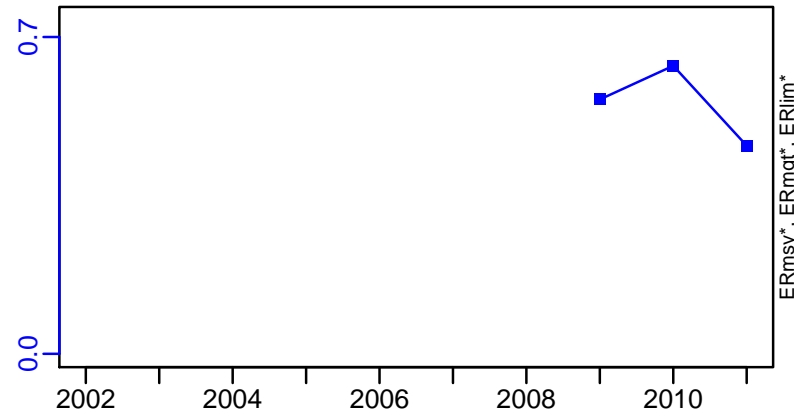
TN \*



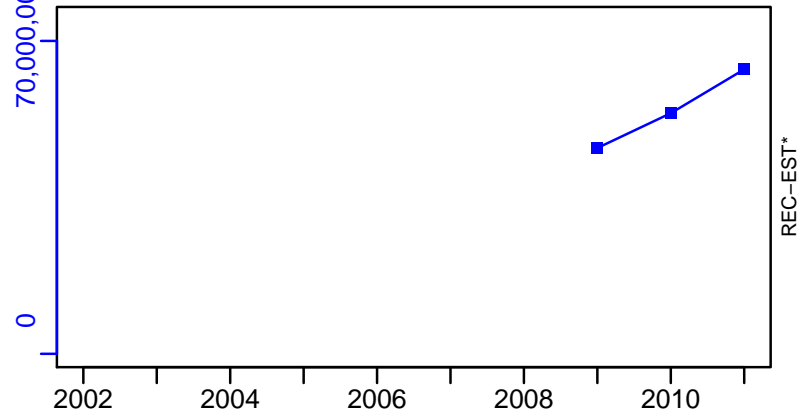
F-1/yr (2002–2015–OSIO)



ER-calc-ratio (2002–2011–OSIO)

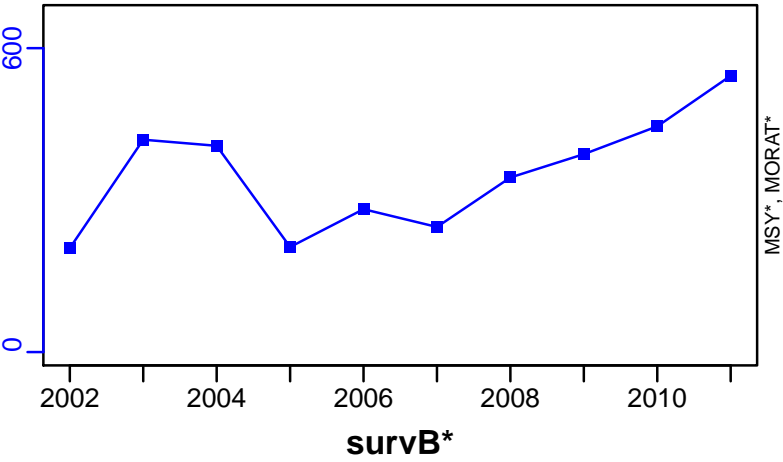


R-E00 (2002–2011–OSIO)



Norway lobster Northern Spain [NEPHMEDGSA6]

TC-MT, TL\*, RecC\* (2002-2011-OSIO)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

Metadata	
<b>Scientific Name</b>	Nephrops norvegicus
<b>Current Assess ID</b>	STECF-NEPHMEDGSA9-2005-2015-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015, 2013

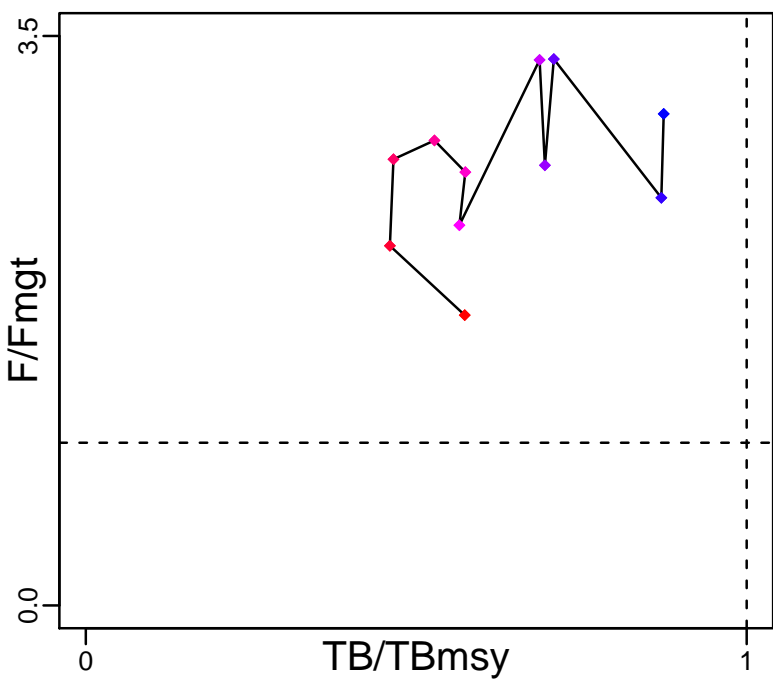
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	1113
<b>SSBmsy</b>	SSBmsy-est-MT	2013	808
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.149
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	165
<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	638	-	-
<b>SSB</b>	SSB-MT	2015	235	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$1.9 \times 10^7$	-	-
<b>F</b>	F-1/yr	2015	0.339	-	-
<b>ER</b>	ER-calc-ratio	2015	0.145	-	-
<b>TC</b>	TC-MT	2015	92		
<b>TL</b>	TL-MT	2015	114		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	0.573		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	0.44		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.975		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.784		
<b>ER/ERmgt</b>	-	-	-		

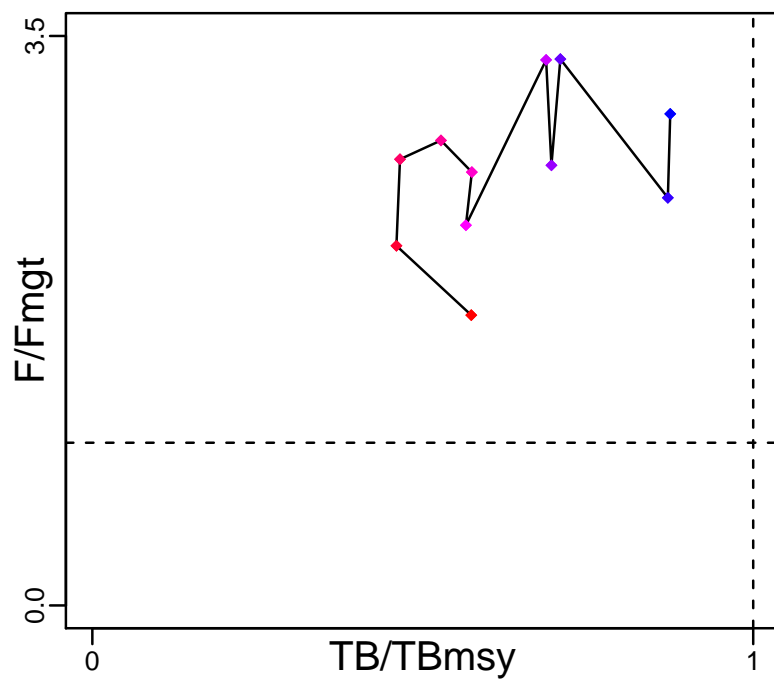


# Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

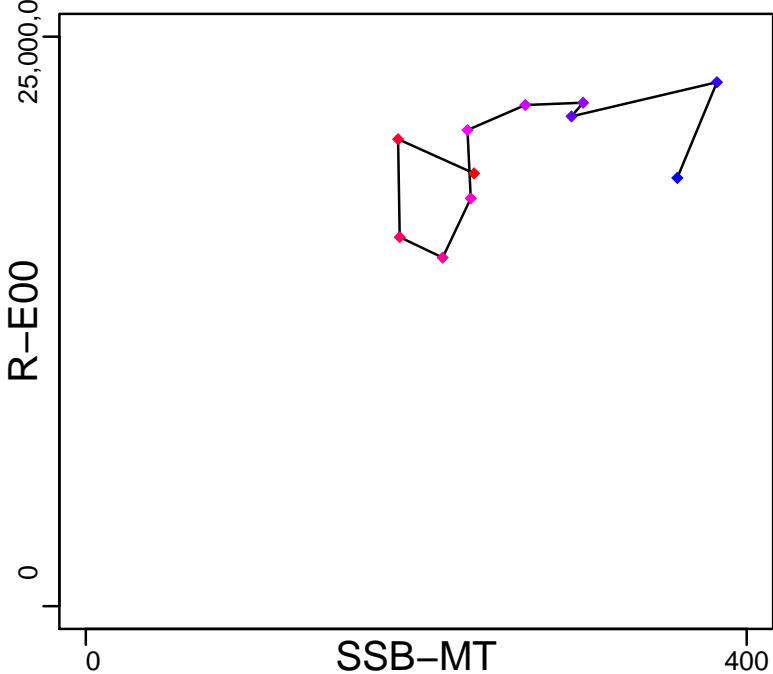
Kobe MSYpref (2005–2015–OSIO)



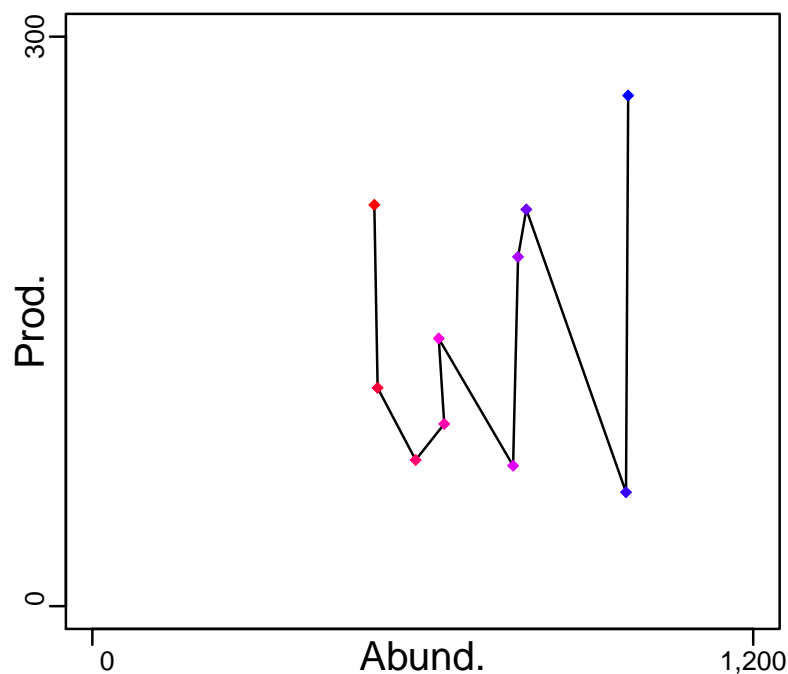
Kobe MGTpref (2005–2015–OSIO)



Spawner Recruit (2005–2015–OSIO)



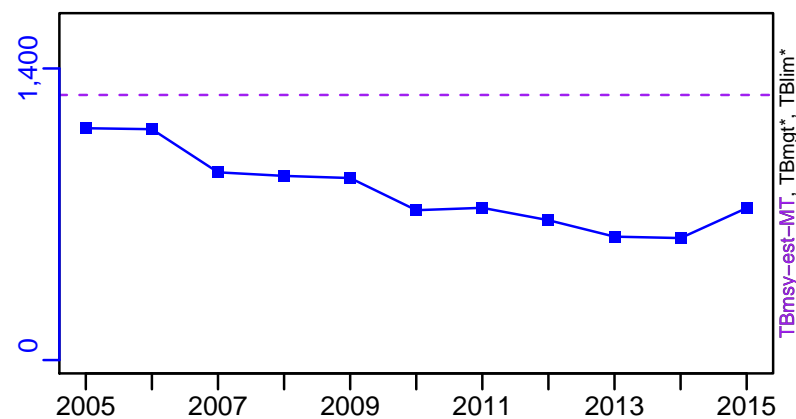
Production (2005–2015–OSIO)



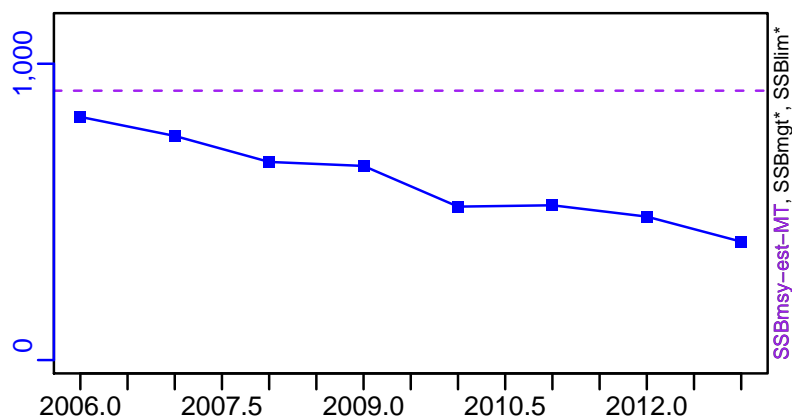
◆ Start Year ◆ End Year \* No Data

# Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

TB-MT (2005–2015–OSIO)



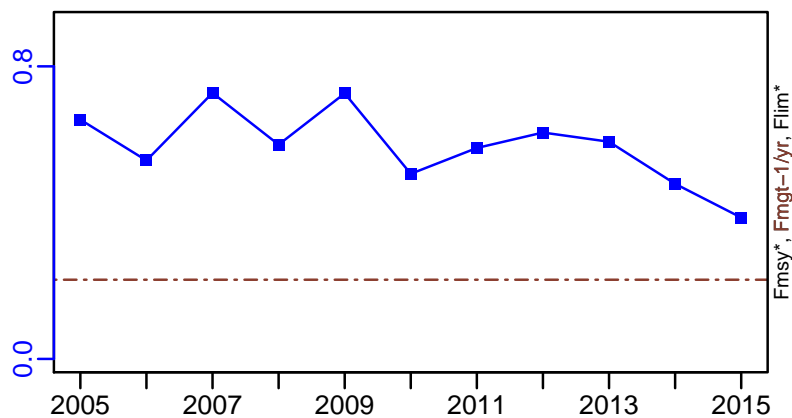
SSB-MT (2006–2013–OSIO)



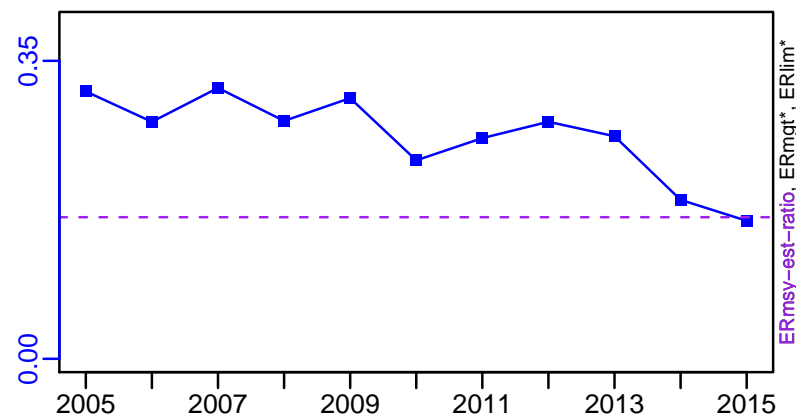
TN \*



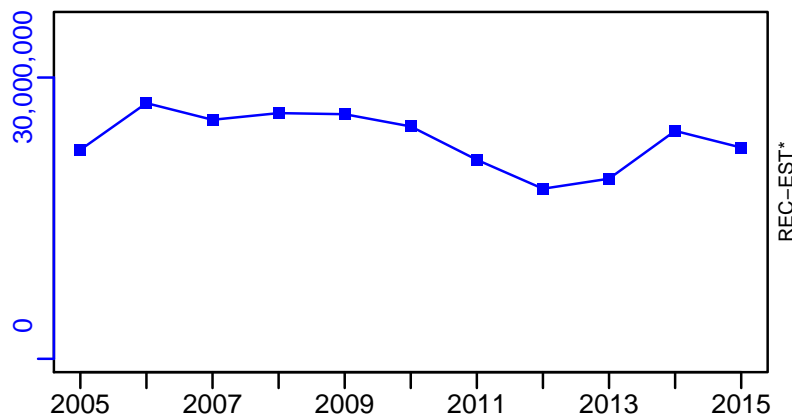
F-1/yr (2005–2015–OSIO)



ER-calc-ratio (2005–2015–OSIO)



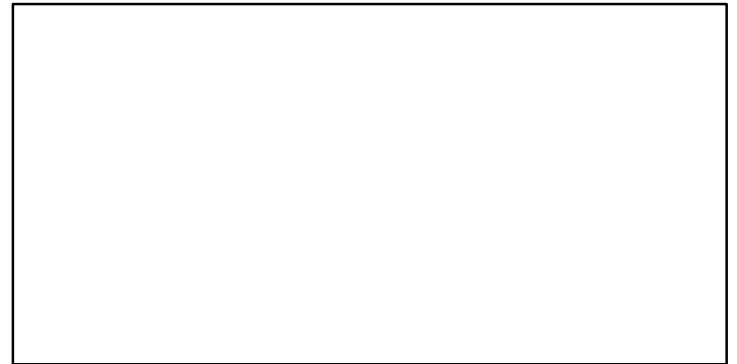
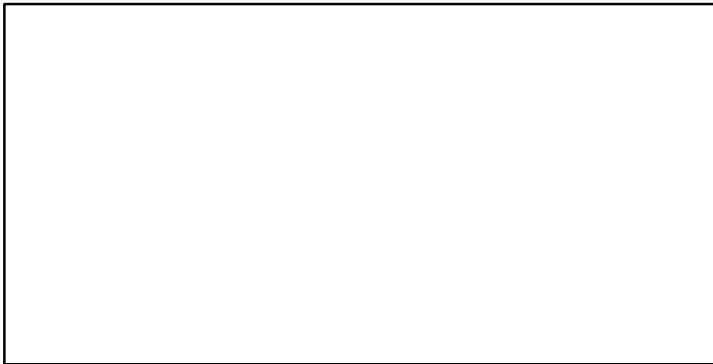
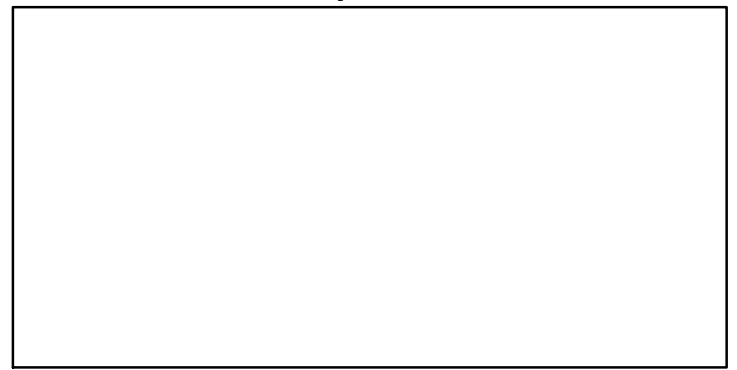
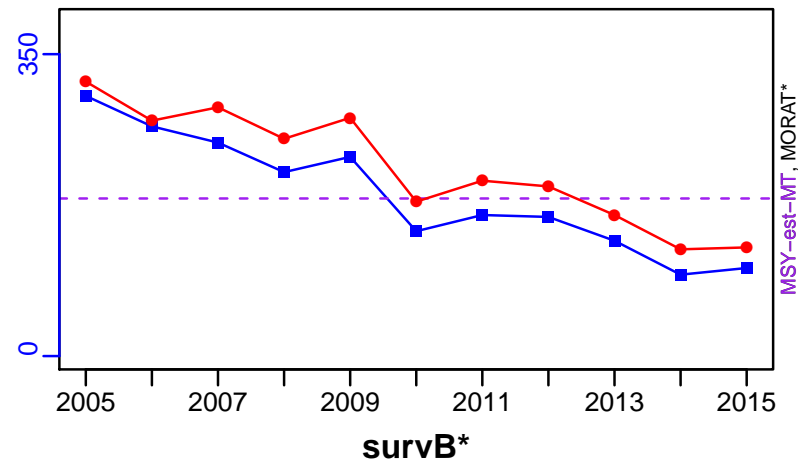
R-E00 (2005–2015–OSIO)



# Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

TC-MT, TL-MT, RecC\* (2005–2015–OSIO)

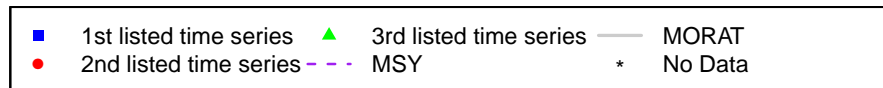
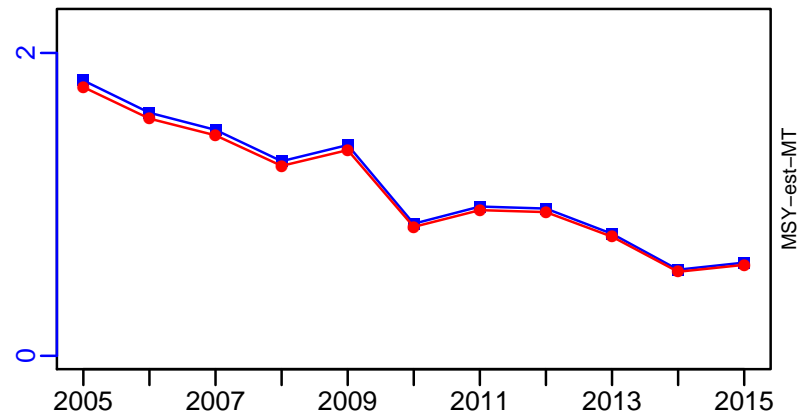
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005–2015–OSIO)



## Picarel Cyprus Island [PICAMEDGSA25]

Metadata	
<b>Scientific Name</b>	Spicara smaris
<b>Current Assess ID</b>	STECF-PICAMEDGSA25-2005-2010-OSIO
<b>Area</b>	Cyprus Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	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>	Fmgt-1/yr	2010	0.31
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2010	1350	-	0+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2010	0.08	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2010	245		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2010	0.258		
<b>ER/ERmgt</b>	-	-	-		

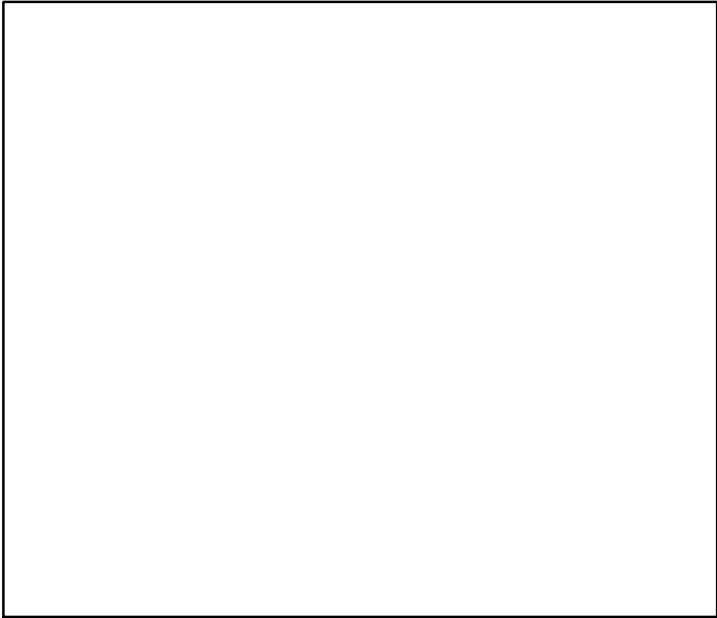
Kobe MSY\*



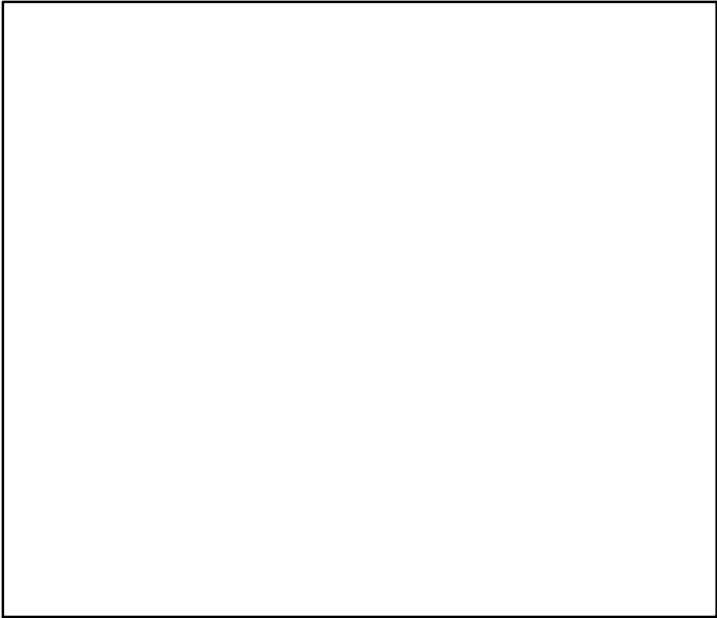
Kobe MGT\*



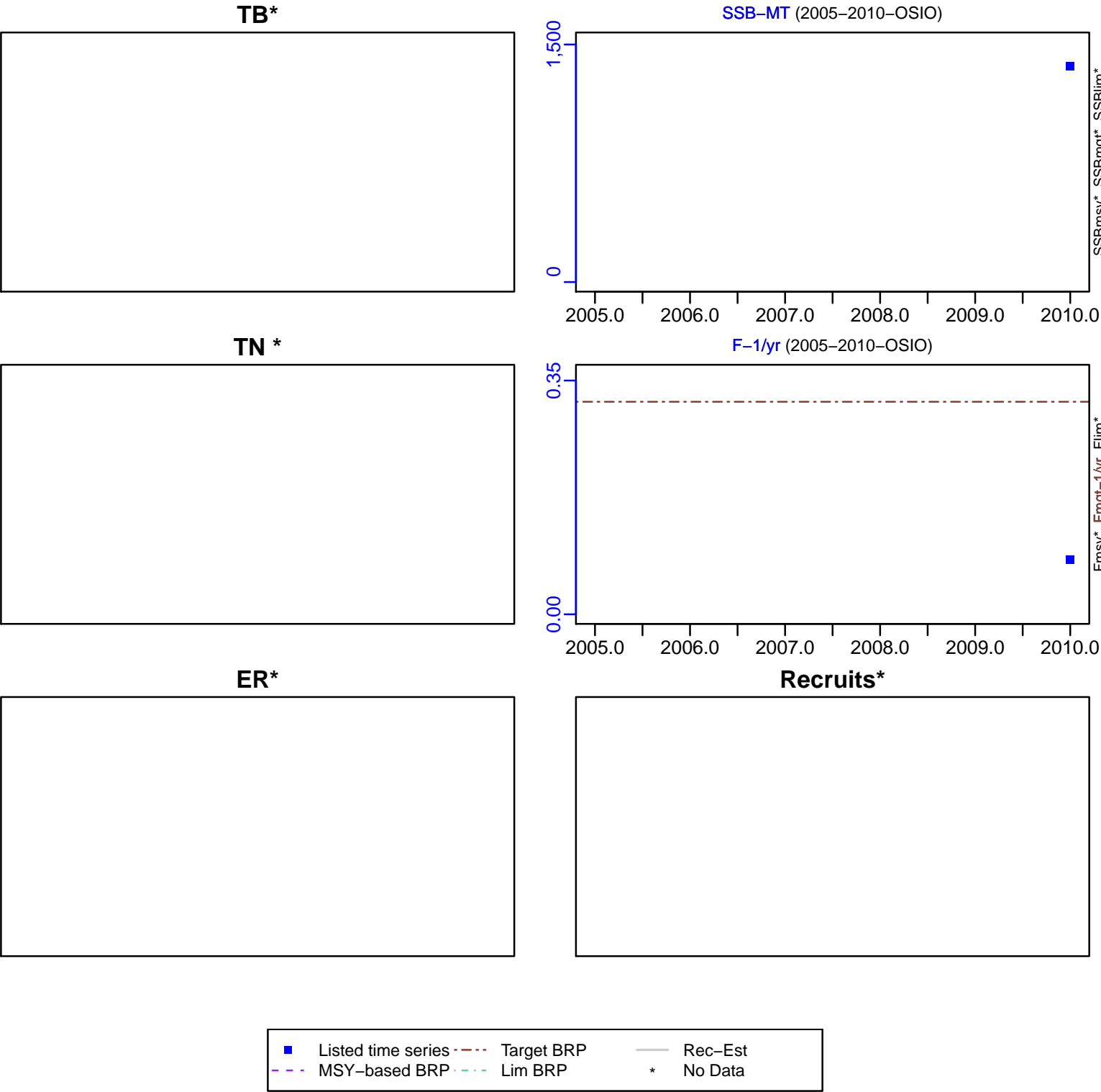
Spawner Recruit\*



Production\*



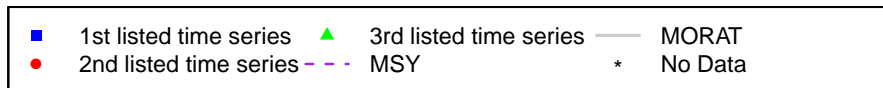
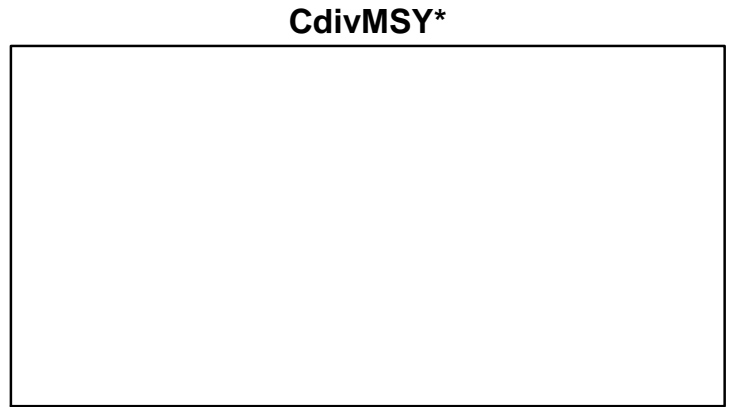
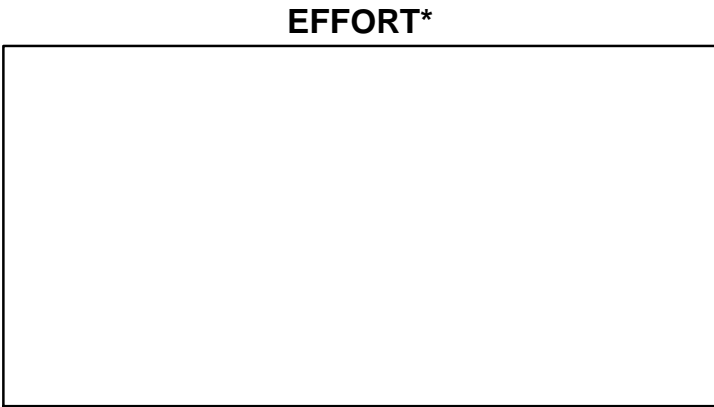
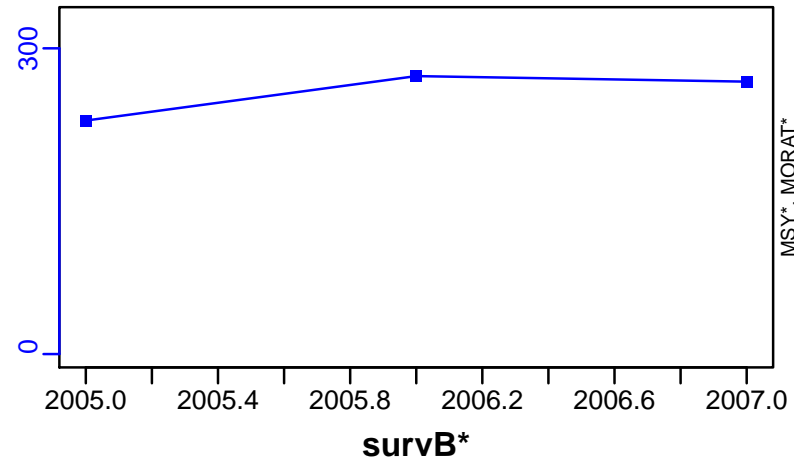
◆ Start Year   ◆ End Year   \* No Data



Picarel Cyprus Island [PICAMEDGSA25]

TC-MT, TL\*, RecC\* (2005–2010–OSIO)

TAC\*, Cpair\*, Cadv\*



## Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

Metadata	
<b>Scientific Name</b>	Trisopterus minutus
<b>Current Assess ID</b>	STECF-PRCODMEDGSA9-2004-2011-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

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>	Fmgt-1/yr	2011	0.74
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2011	163	-	0+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	$3 \times 10^6$	-	-
<b>F</b>	F-1/yr	2011	0.9	-	-
<b>ER</b>	ER-calc-ratio	2011	0.208	-	-
<b>TC</b>	TC-MT	2011	105		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2011	1.216		
<b>ER/ERmgt</b>	-	-	-		



**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



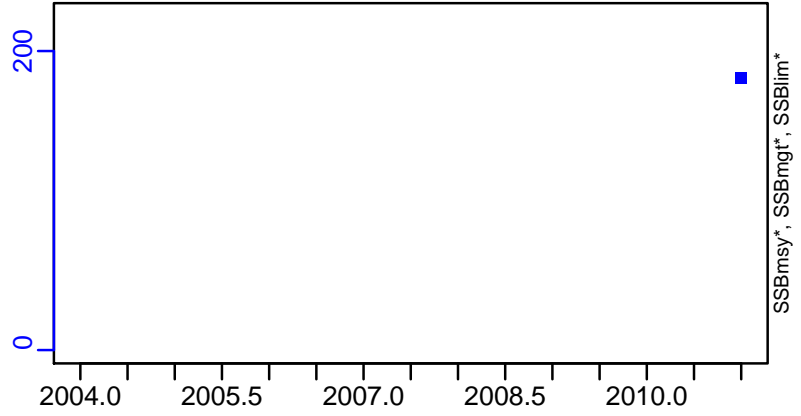
◆ Start Year ◆ End Year \* No Data

Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

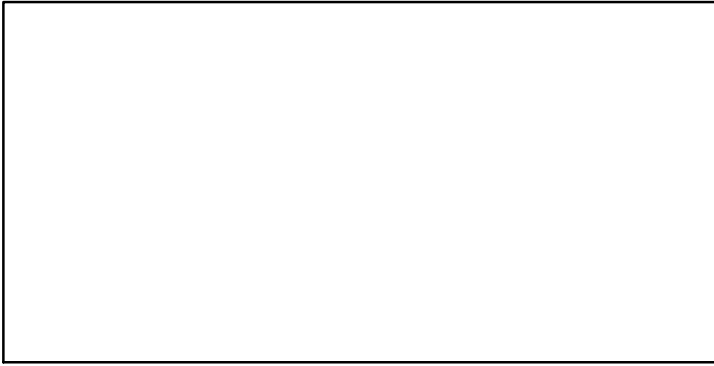
TB\*



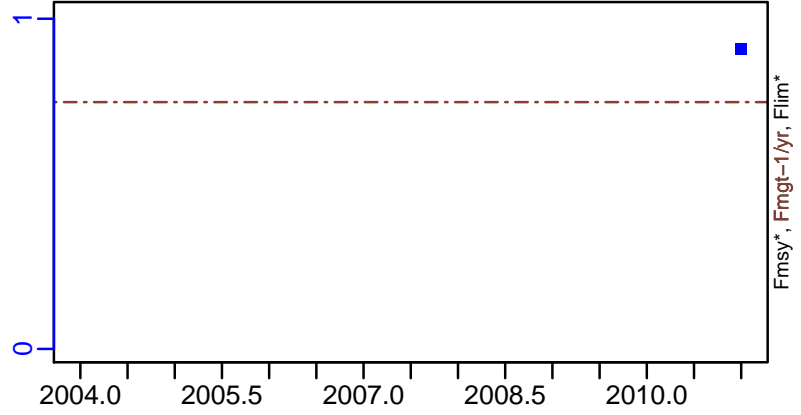
SSB-MT (2004–2011–OSIO)



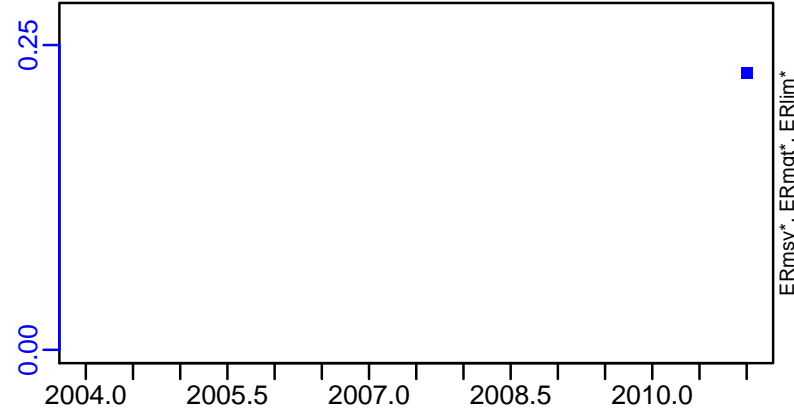
TN \*



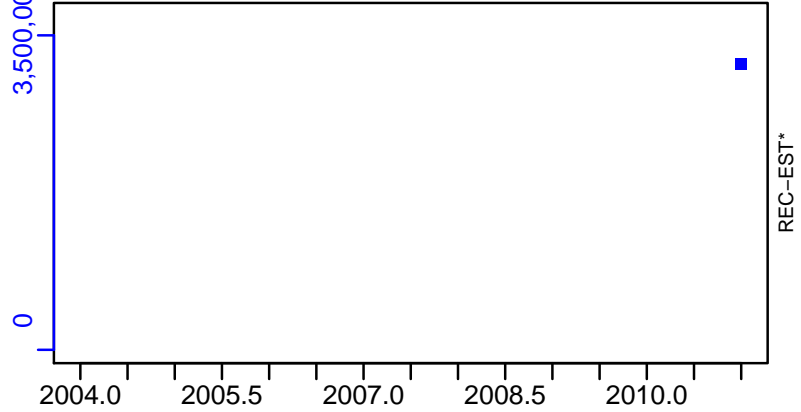
F-1/yr (2004–2011–OSIO)



ER-calc-ratio (2004–2011–OSIO)



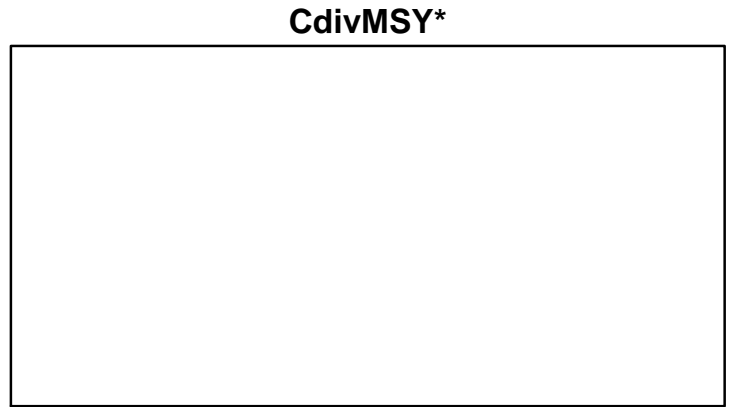
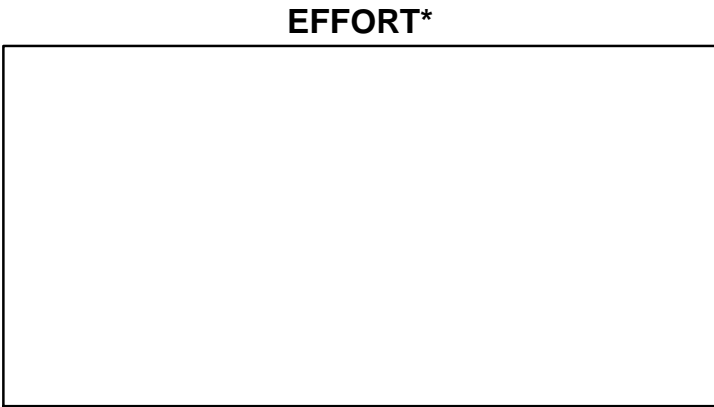
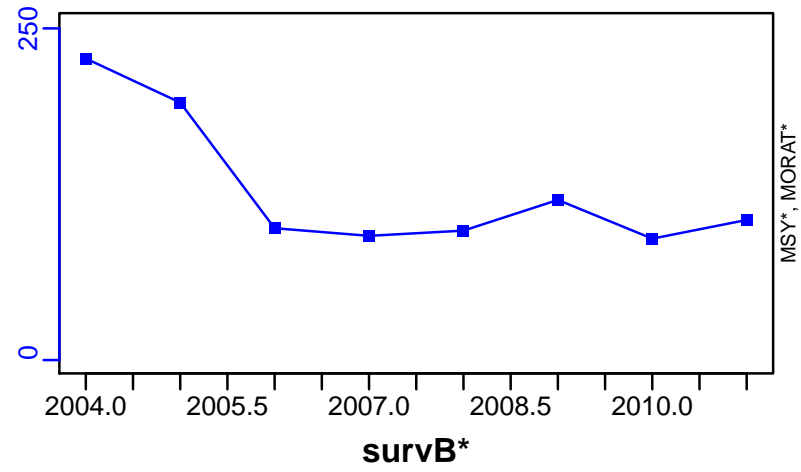
R-E00 (2004–2011–OSIO)



Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

TC-MT, TL\*, RecC\* (2004–2011–OSIO)

TAC\*, Cpair\*, Cadv\*



## Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

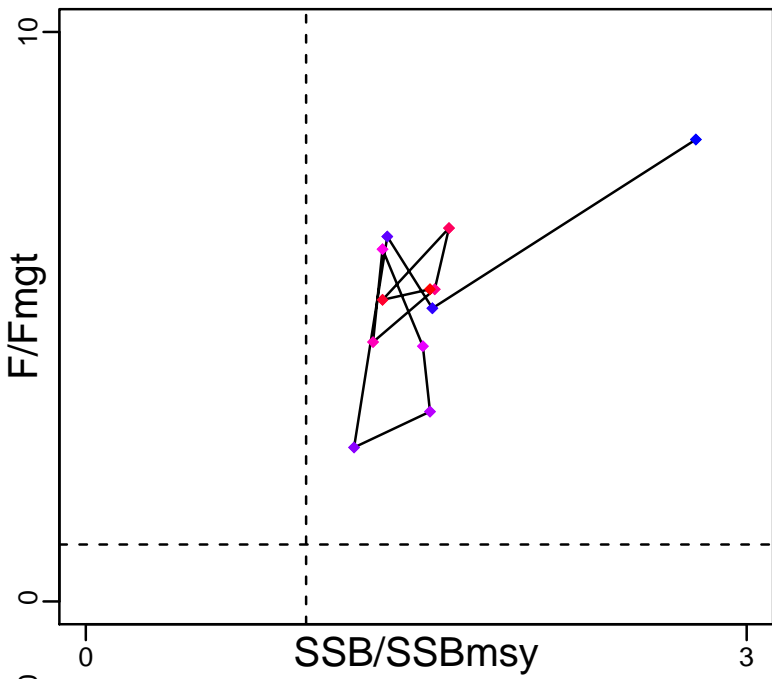
Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-PSHRMPMEDGSA6-2001-2012-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2012	93
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.328
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.27
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	140
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

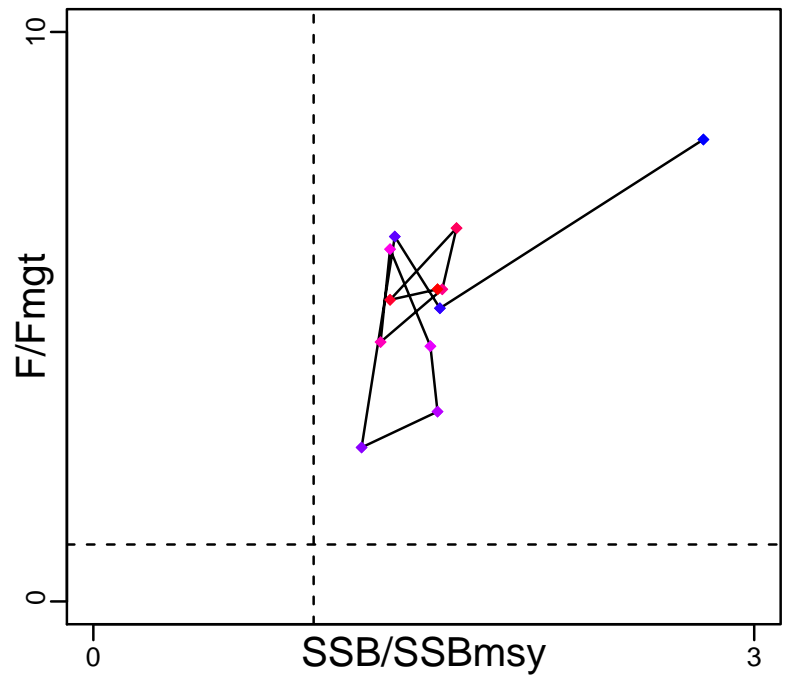
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	145	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	$1.26 \times 10^8$	-	-
<b>F</b>	F-1/yr	2012	1.48	-	-
<b>ER</b>	ER-calc-ratio	2012	0.18	-	-
<b>TC</b>	TC-MT	2012	120		
<b>TL</b>	TL-MT	2011	92		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	1.562		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.549		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	5.481		
<b>ER/ERmgt</b>	-	-	-		

# Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

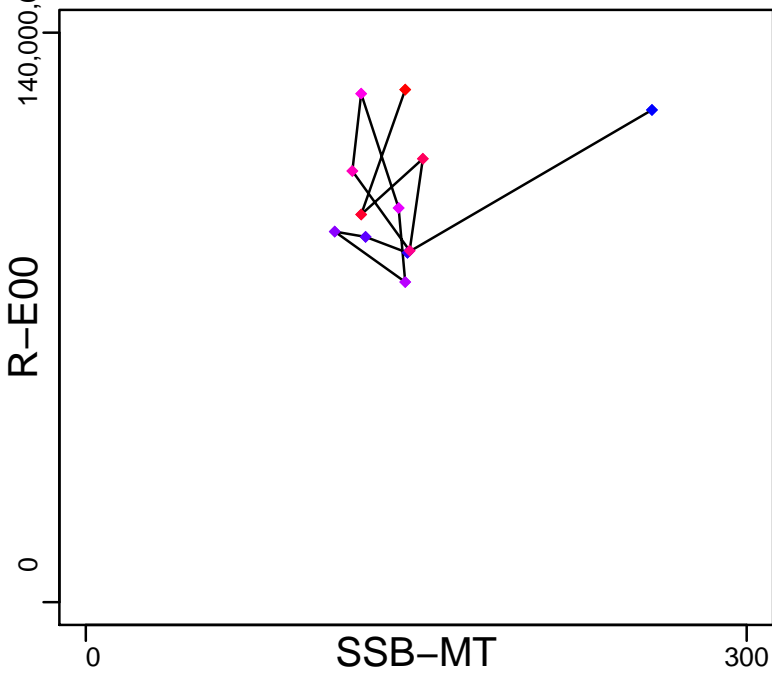
Kobe MSYpref (2001–2012–OSIO)



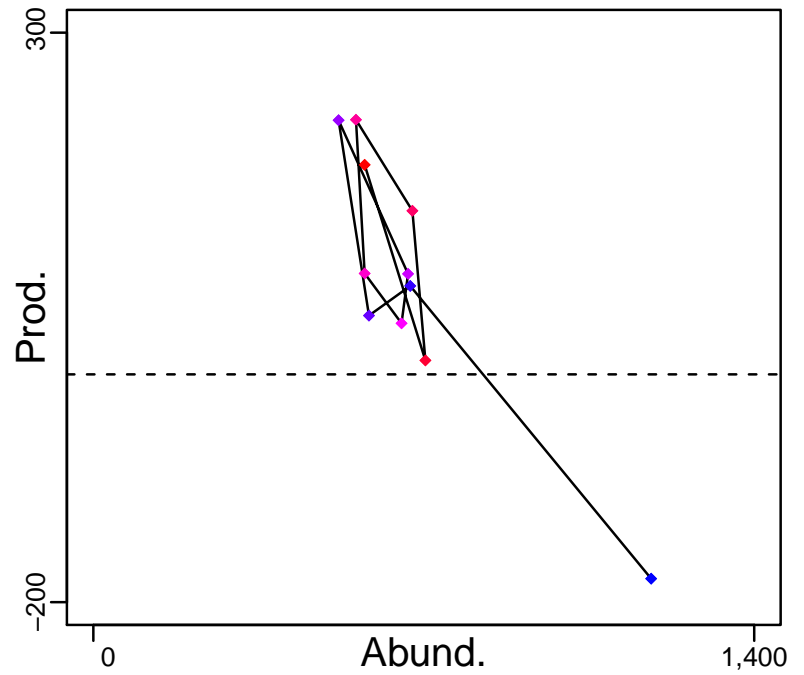
Kobe MGTpref (2001–2012–OSIO)



Spawner Recruit (2001–2012–OSIO)



Production (2001–2012–OSIO)



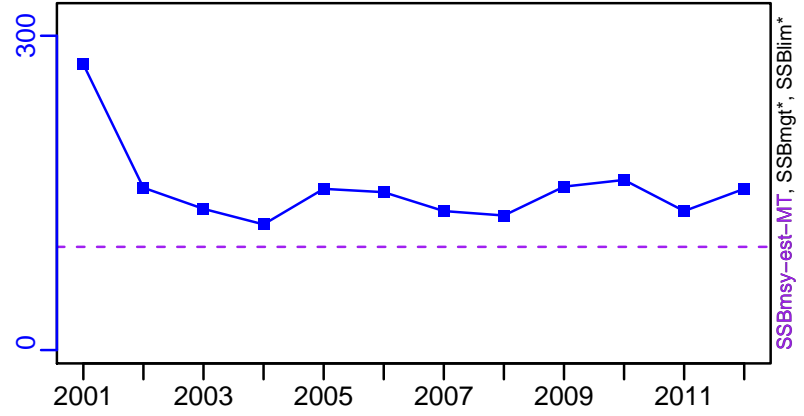
◆ Start Year ◆ End Year \* No Data

# Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

TB\*



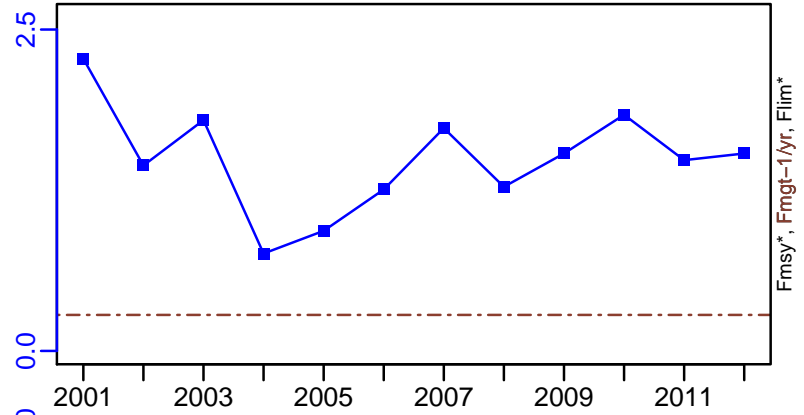
SSB-MT (2001-2012-OSIO)



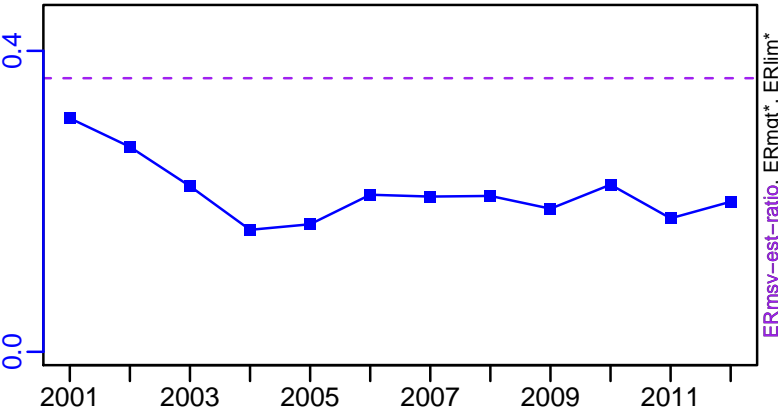
TN \*



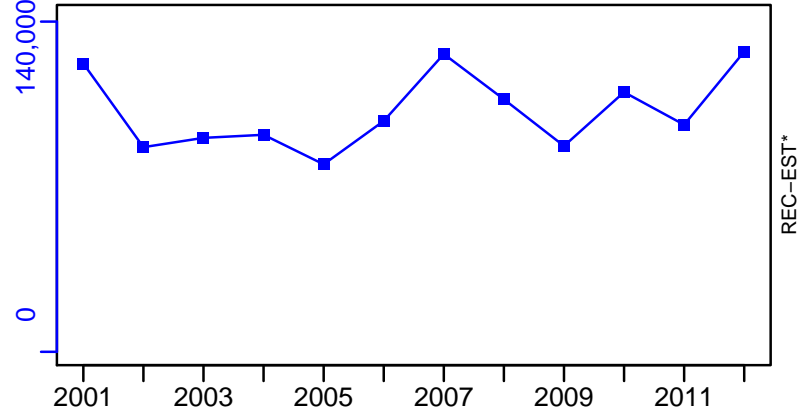
F-1/yr (2001-2012-OSIO)



ER-calc-ratio (2001-2012-OSIO)



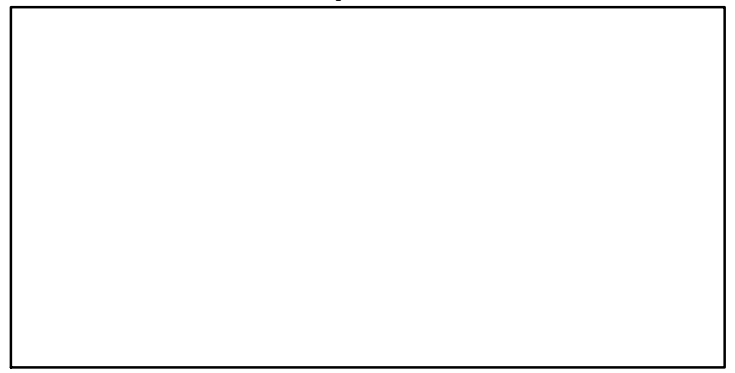
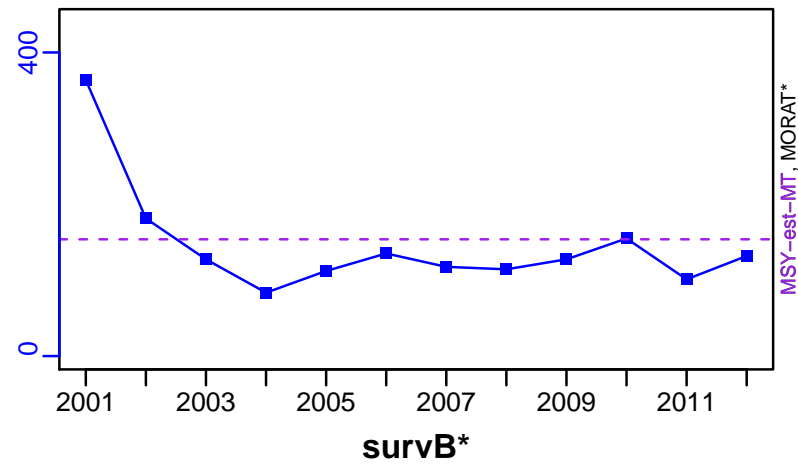
R-E00 (2001-2012-OSIO)



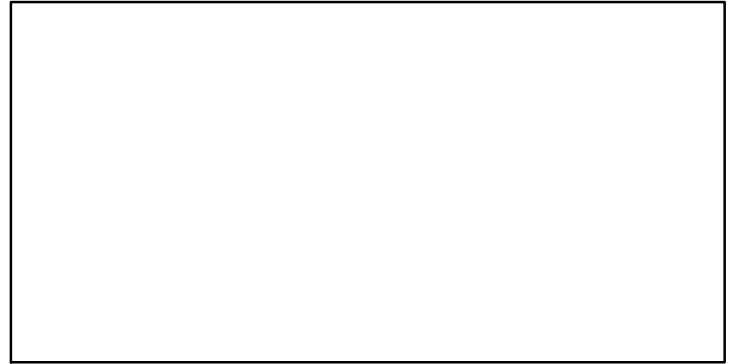
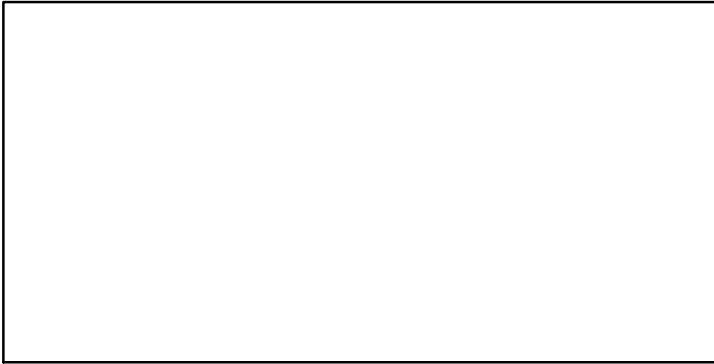
# Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

TC-MT, TL\*, RecC\* (2001–2012–OSIO)

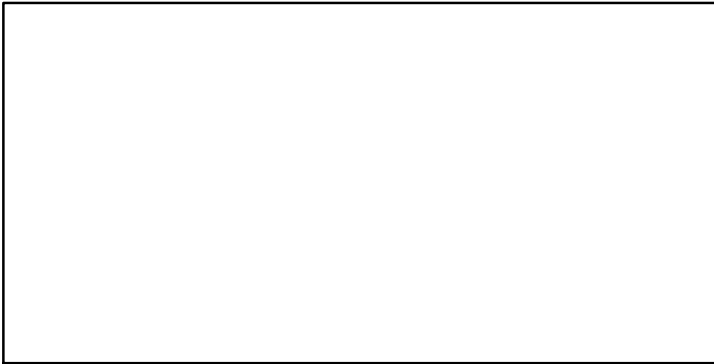
TAC\*, Cpair\*, Cadv\*



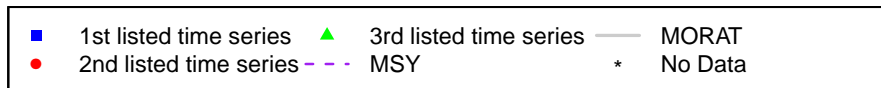
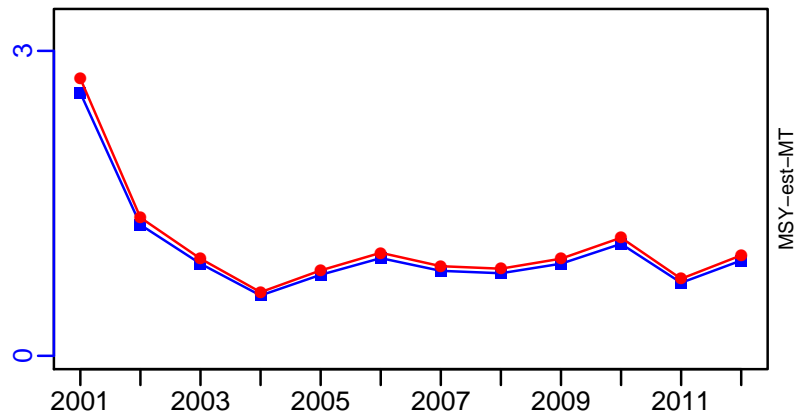
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2001–2012–OSIO)



## Red seabream Alboran Island Sea (GSA 1,3) [RBRMMEDGSA1-3]

Metadata	
<b>Scientific Name</b>	Pagellus bogaraveo
<b>Current Assess ID</b>	GRP7-RBRMMEDGSA1-3-2009-2011-BANOBI
<b>Area</b>	Alboran Island Sea (GSA 1,3)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	INRH-NADOR, IEO-MALAGA
<b>Asmts in RAM</b>	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.194	-	2 to 6
ER	-	-	-	-	-
TC	TC-MT	2011	258		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



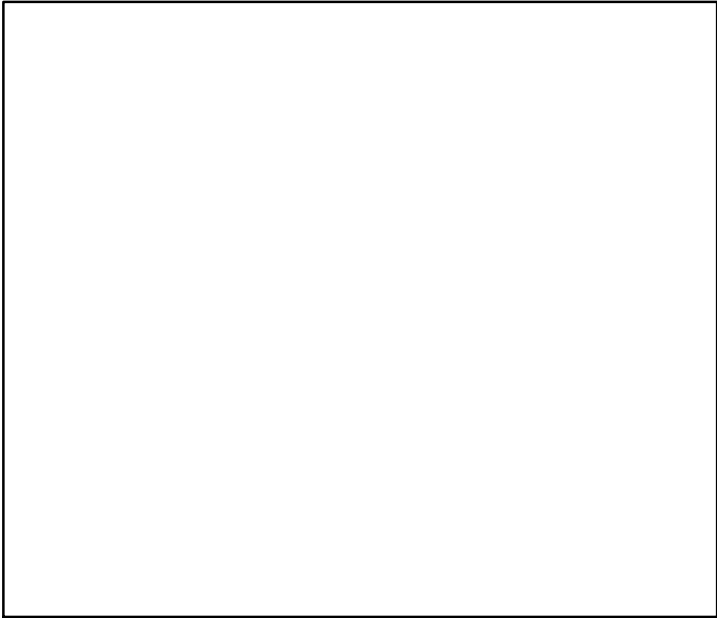
**Kobe MSY\***



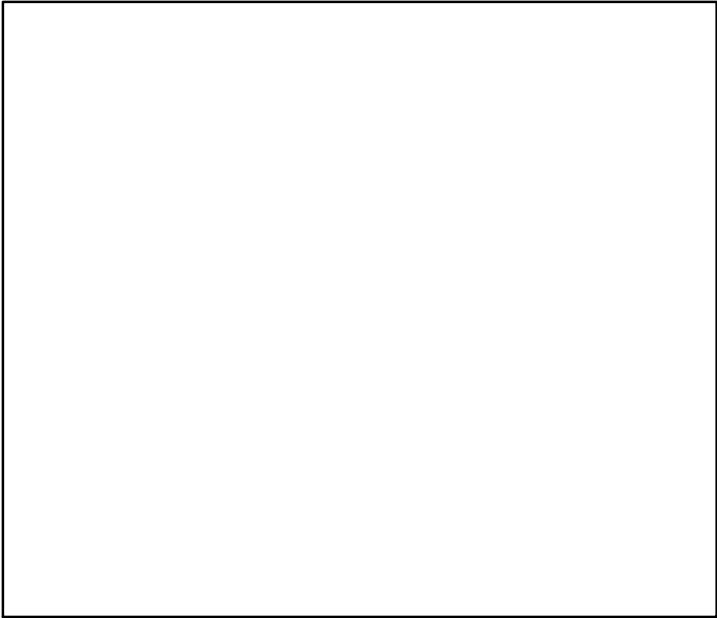
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

TB\*



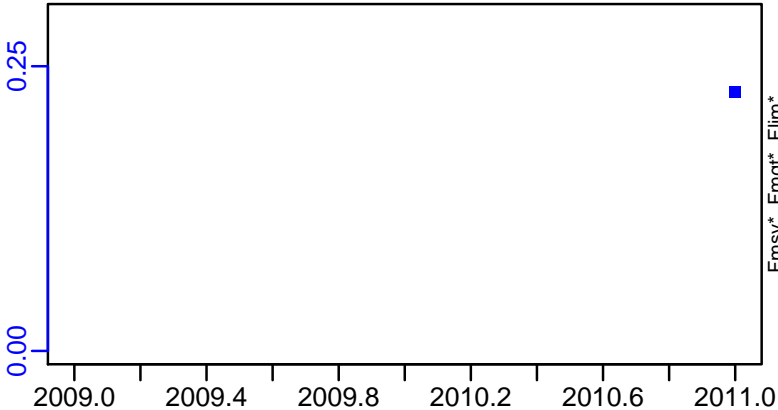
SSB\*



TN \*



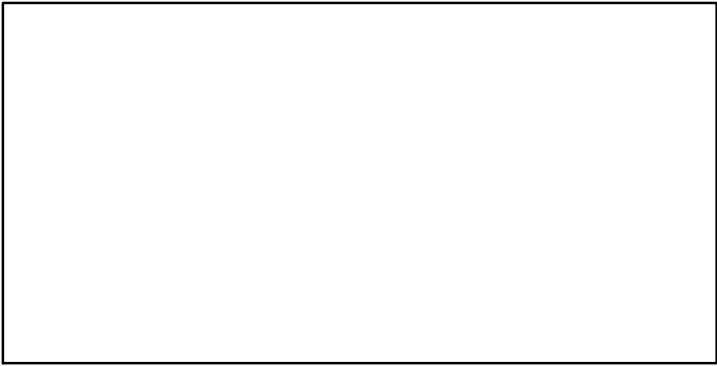
F-1/yr (2009-2011-BANOBI)



ER\*

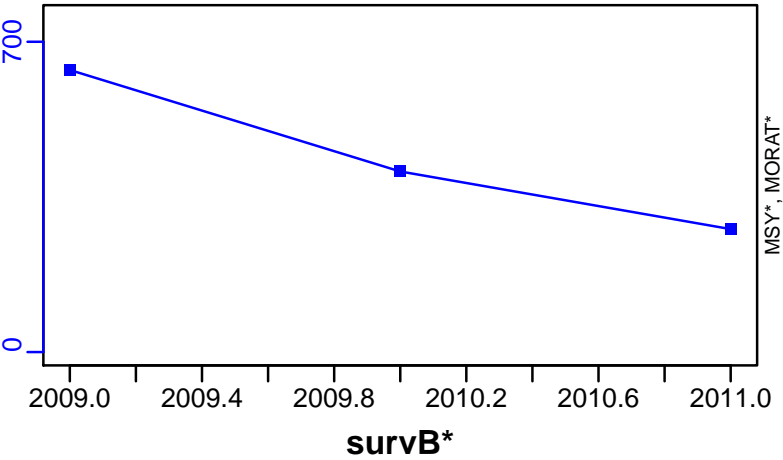


Recruits\*



Red seabream Alboran Island Sea (GSA 1,3) [RBRMMEDGSA1-3]

TC-MT, TL\*, RecC\* (2009-2011-BANOBI)



TAC\*, Cpair\*, Cadv\*



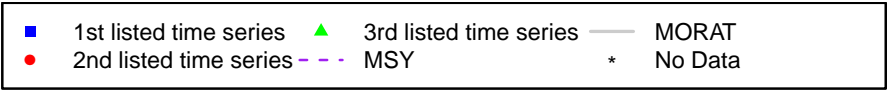
CPUE\*



EFFORT\*



CdivMSY\*



## Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

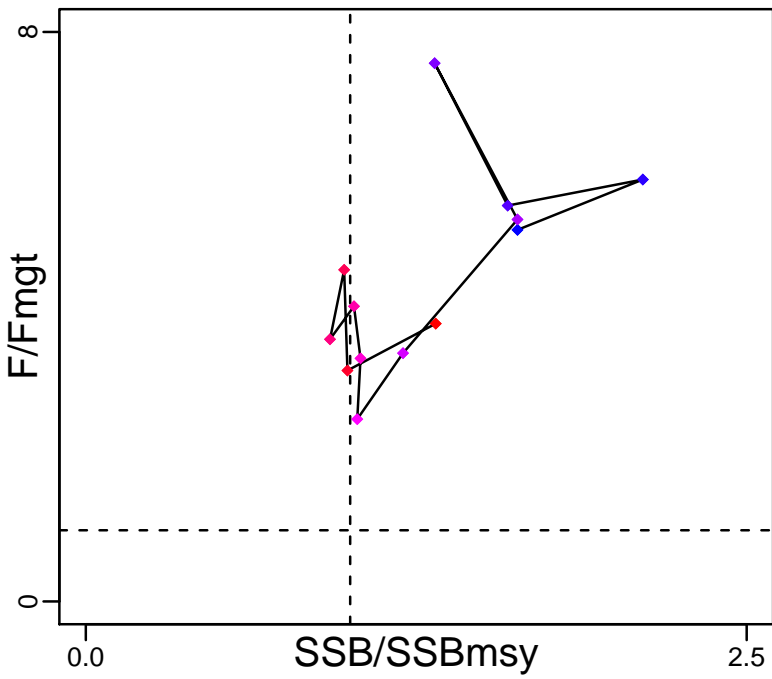
Metadata	
<b>Scientific Name</b>	Aristeus antennatus
<b>Current Assess ID</b>	STECF-RDSHRMPMEDGSA1-2002-2014-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	242
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.238
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.41
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	214
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	1287
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

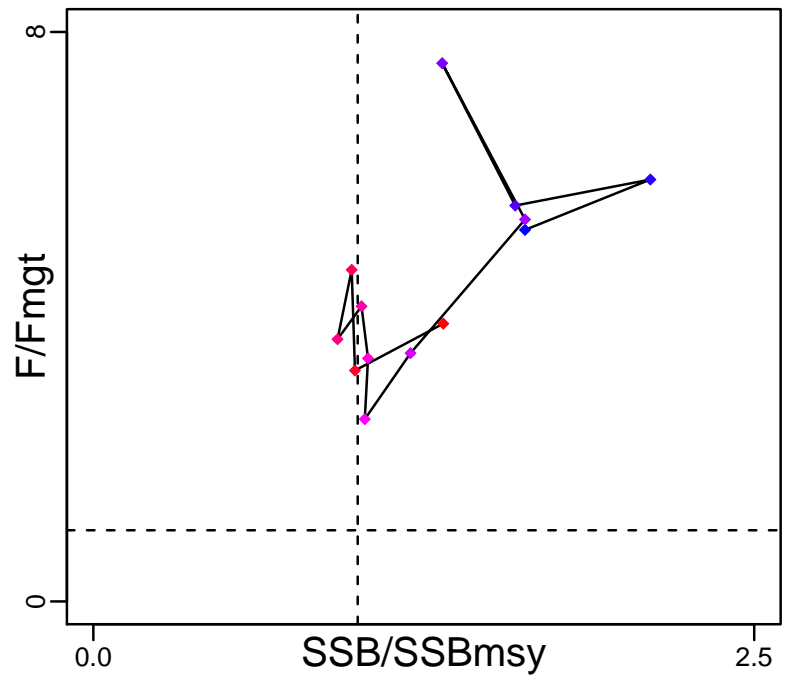
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	321	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	34,700,000	-	-
<b>F</b>	F-1/yr	2014	1.6	-	-
<b>ER</b>	ER-calc-ratio	2014	0.154	-	-
<b>TC</b>	TC-MT	2014	184		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.324		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.649		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	3.902		
<b>ER/ERmgt</b>	-	-	-		

# Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

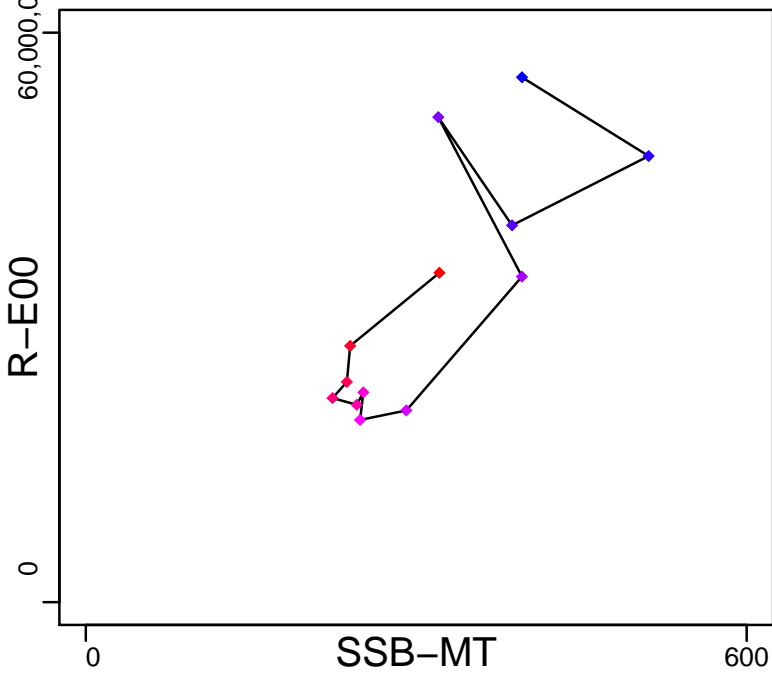
Kobe MSYpref (2002–2014–OSIO)



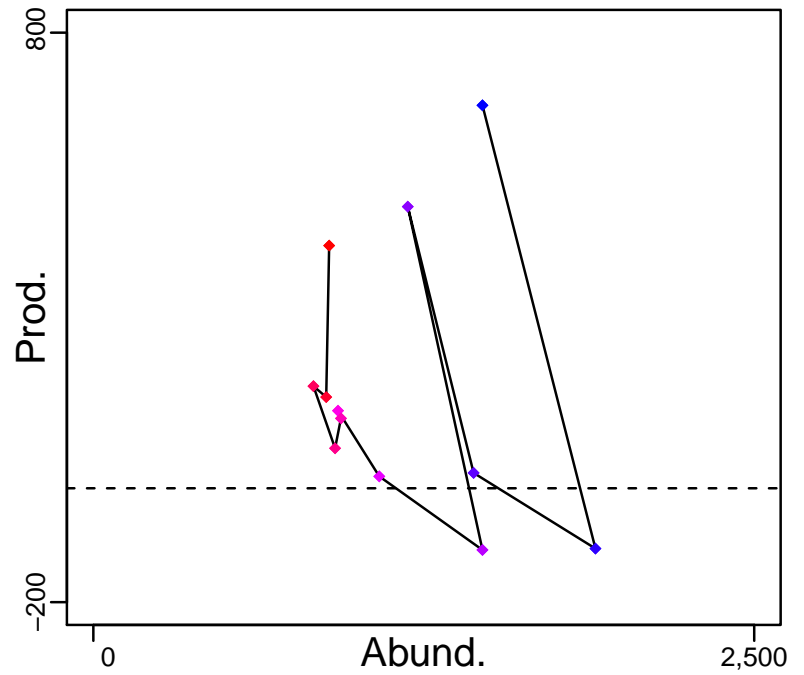
Kobe MGTpref (2002–2014–OSIO)



Spawner Recruit (2002–2014–OSIO)



Production (2002–2014–OSIO)



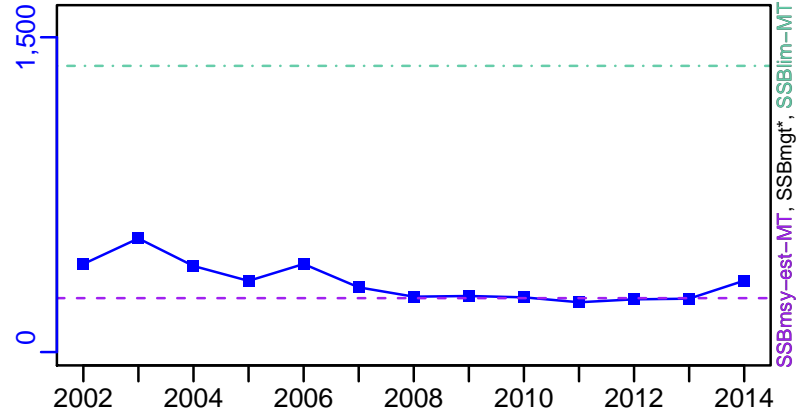
◆ Start Year ◆ End Year \* No Data

# Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

TB\*



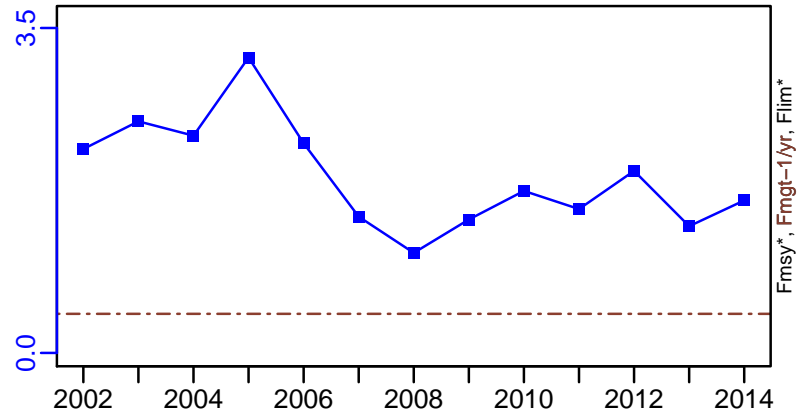
SSB-MT (2002–2014–OSIO)



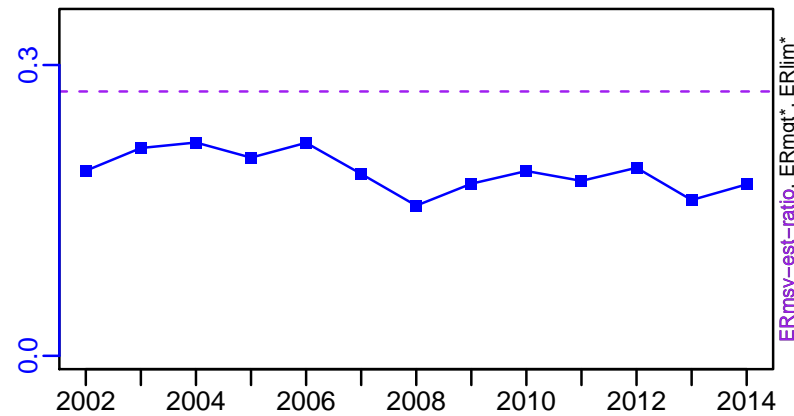
TN \*



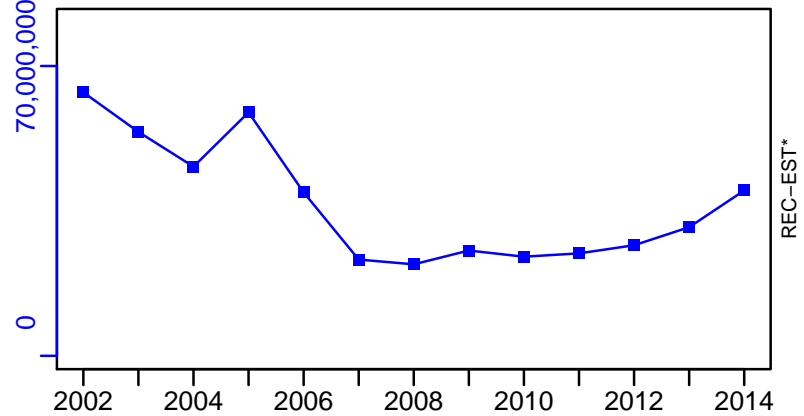
F-1/yr (2002–2014–OSIO)



ER-calc-ratio (2002–2014–OSIO)



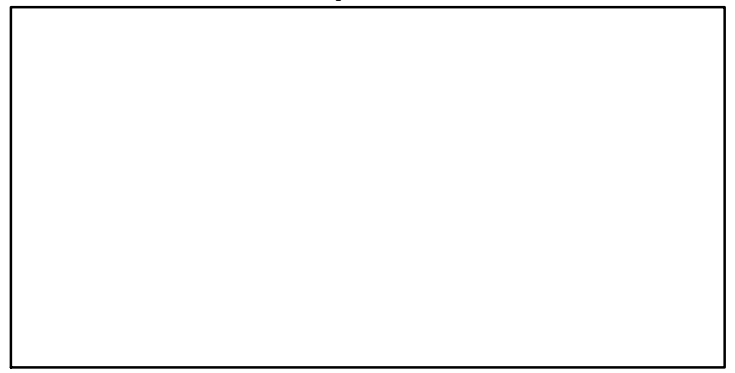
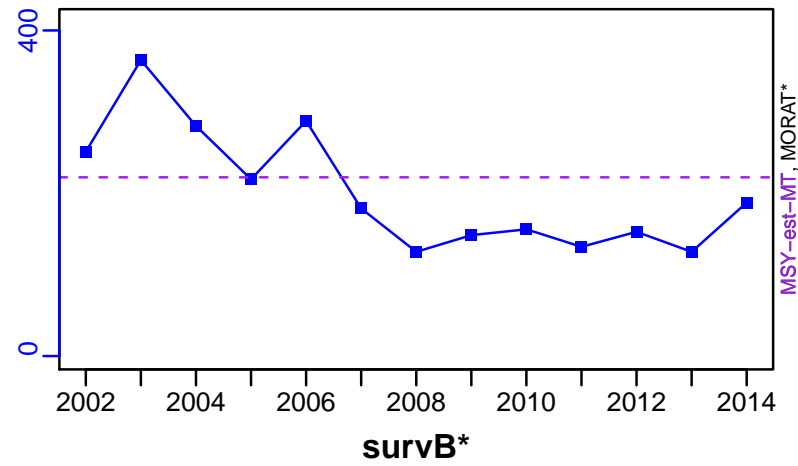
R-E00 (2002–2014–OSIO)



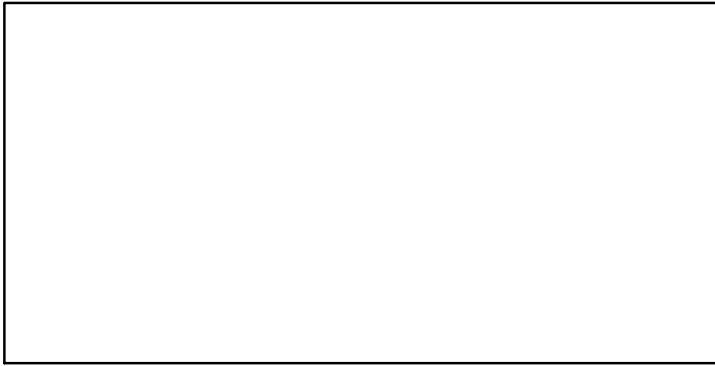
# Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

TC-MT, TL\*, RecC\* (2002-2014-OSIO)

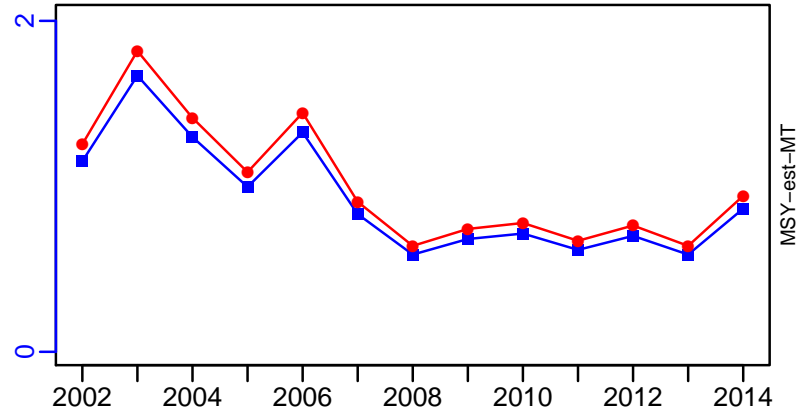
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002-2014-OSIO)



## Red shrimp South Tyrrhenian Sea [RDSHRMPMEDGSA10]

Metadata	
<b>Scientific Name</b>	Aristeus antennatus
<b>Current Assess ID</b>	STECF-RDSHRMPMEDGSA10-2006-2011-OSIO
<b>Area</b>	South Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2011	0.31
ERmgt	-	-	-
TB0	-	-	-
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	2011	48		
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\*



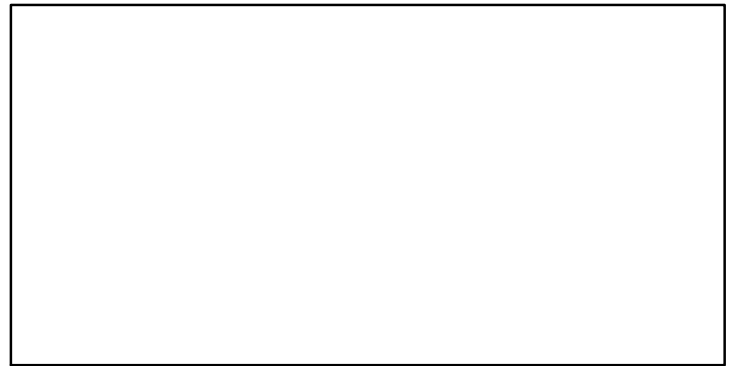
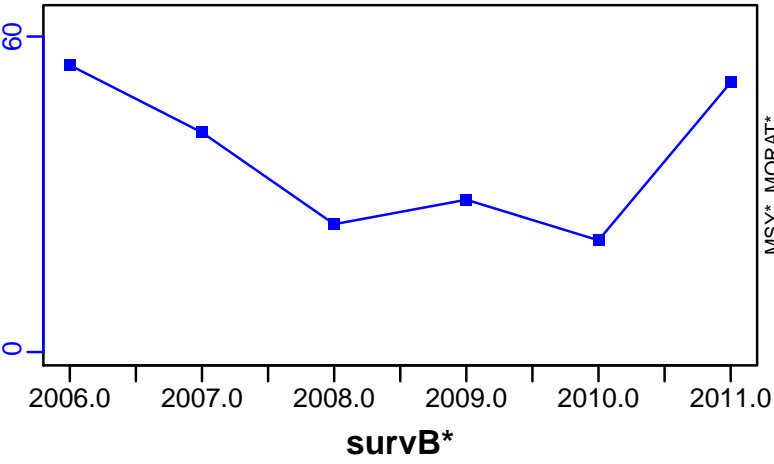
Recruits\*



# Red shrimp South Tyrrhenian Sea [RDSHRMPMEDGSA10]

TC-MT, TL\*, RecC\* (2006–2011–OSIO)

TAC\*, Cpair\*, Cadv\*



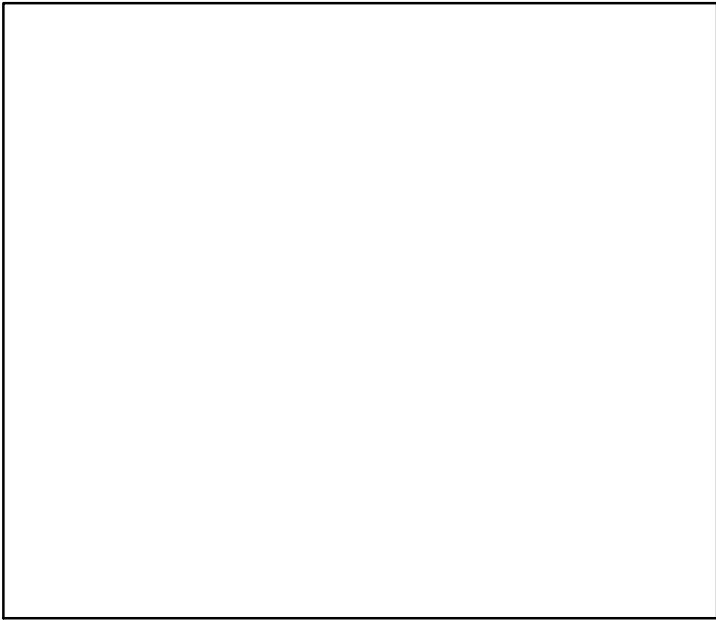
**Red shrimp Malta Island and South of Sicily (GSA 15, 16)**  
**[RDSHRMPMEDGSA15-16]**

Metadata	
<b>Scientific Name</b>	Aristeus antennatus
<b>Current Assess ID</b>	STECF-RDSHRMPMEDGSA15-16-2009-2012-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2012	0.26
ERmgt	-	-	-
TB0	-	-	-
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	2012	94		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

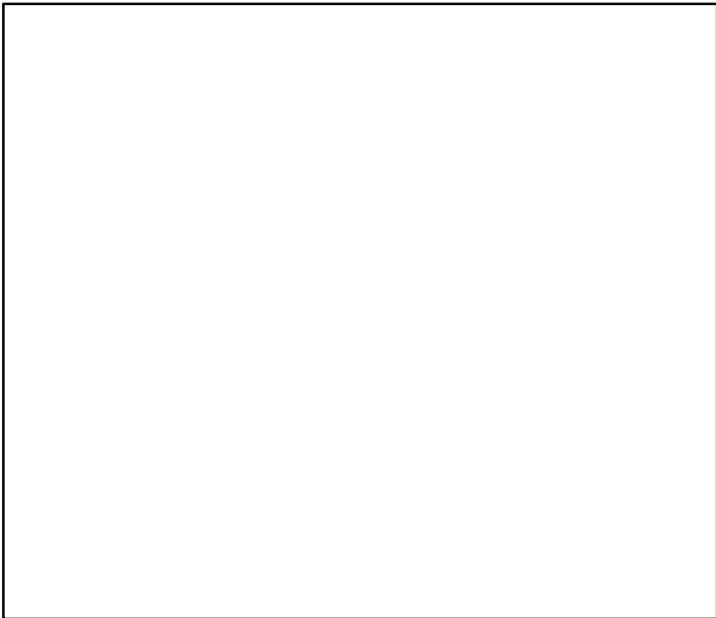
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***

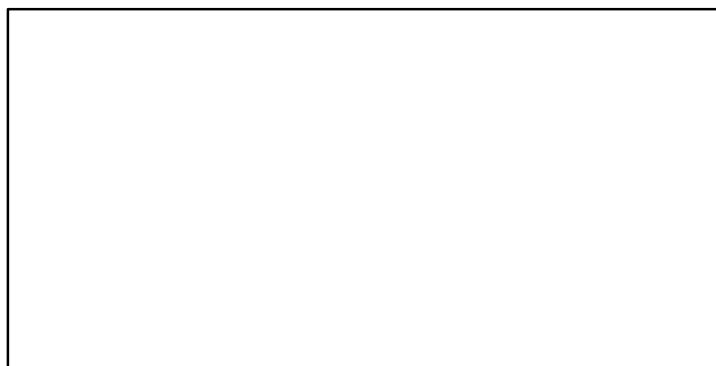


◆ Start Year ◆ End Year \* No Data

**TB\***



**SSB\***



**TN \***



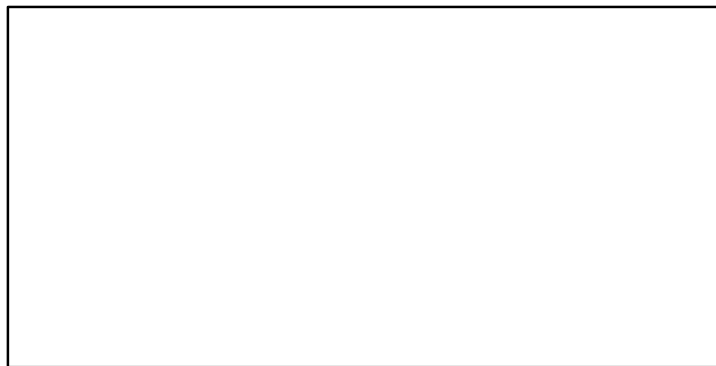
**F\***



**ER\***

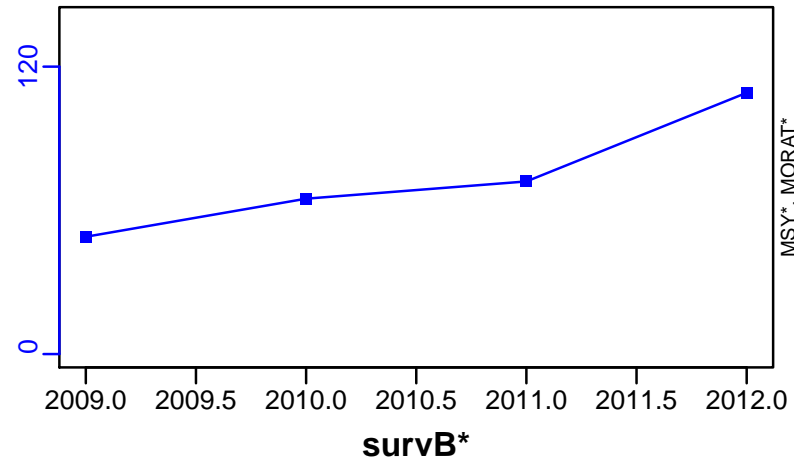


**Recruits\***



Red shrimp Malta Island and South of Sicily (GSA 15, 16) [RDSHRMPMEDGSA15-16]

TC-MT, TL\*, RecC\* (2009-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Red shrimp Northern Spain [RDSHRMPMEDGSA6]

Metadata	
<b>Scientific Name</b>	Aristeus antennatus
<b>Current Assess ID</b>	STECF-RDSHRMPMEDGSA6-2002-2014-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2014

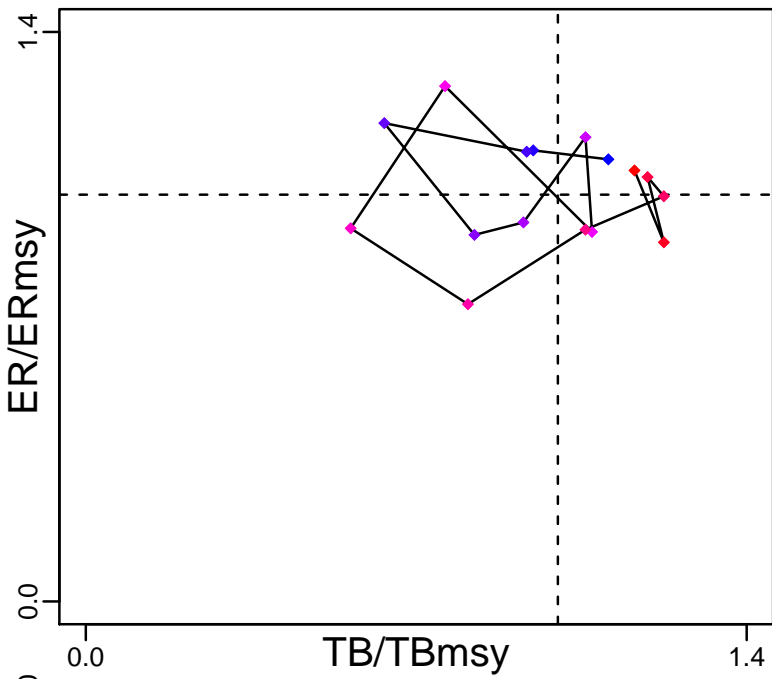
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2011	1445
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2011	0.414
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.36
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2011	598
<b>M</b>	M-1/yr	2011	0.46
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	224
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	1680	-	-
<b>SSB</b>	SSB-MT	2014	4050	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$5.98 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	0.441	-	-
<b>ER</b>	ER-calc-ratio	2014	0.036	-	-
<b>TC</b>	TC-MT	2014	546		
<b>TL</b>	TL-MT	2011	737		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2011	1.162		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2011	1.06		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.225		
<b>ER/ERmgt</b>	-	-	-		

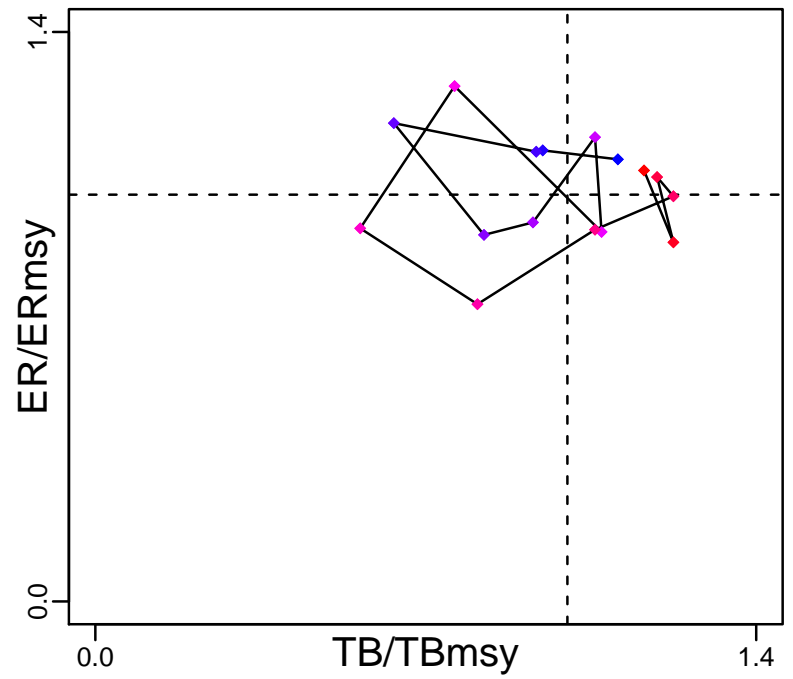


# Red shrimp Northern Spain [RDSHRMPMEDGSA6]

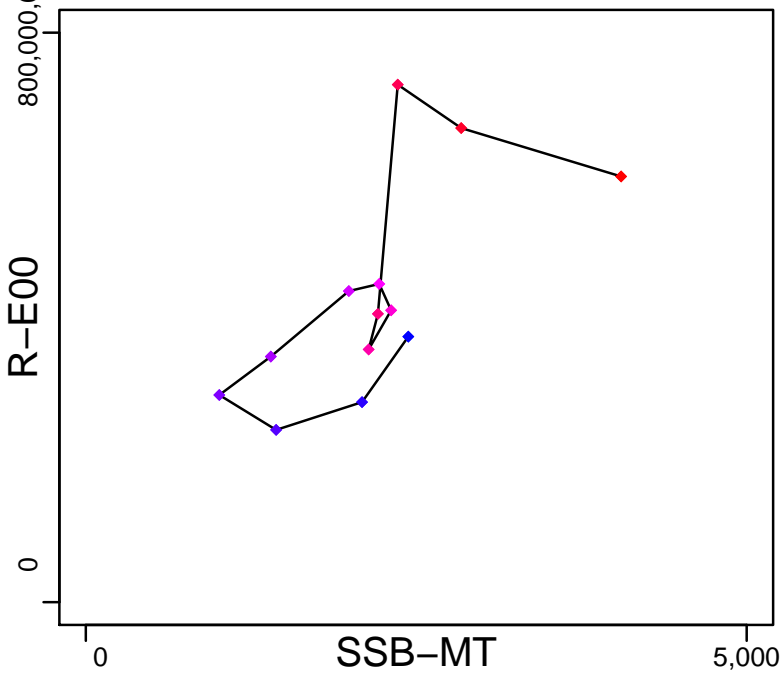
Kobe MSYpref (1996–2011–BANOB1)



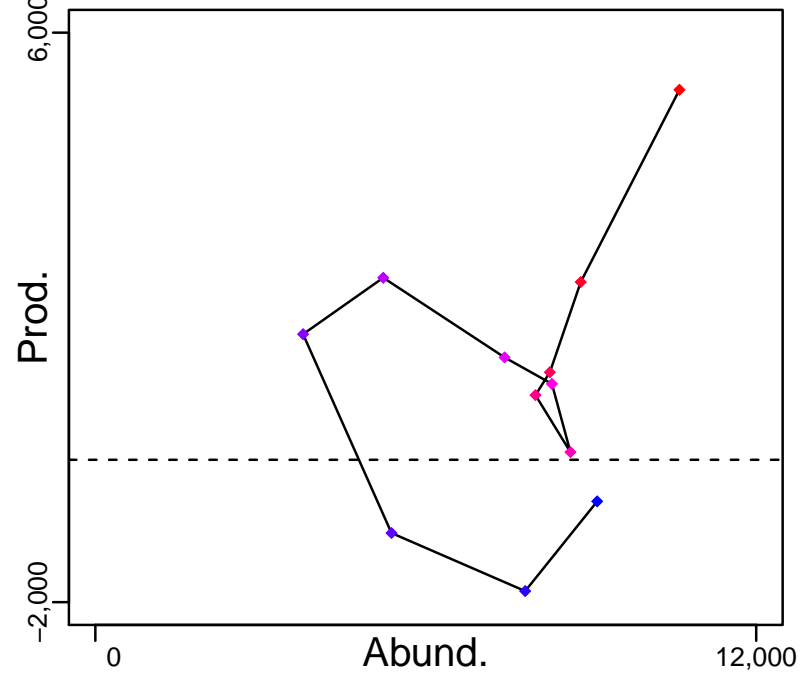
Kobe MGTpref (1996–2011–BANOB1)



Spawner Recruit (2002–2014–OSIO)



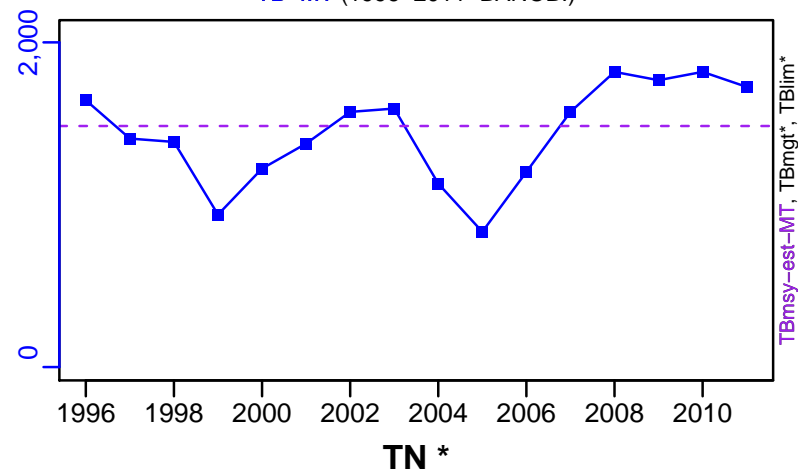
Production (2002–2014–OSIO)



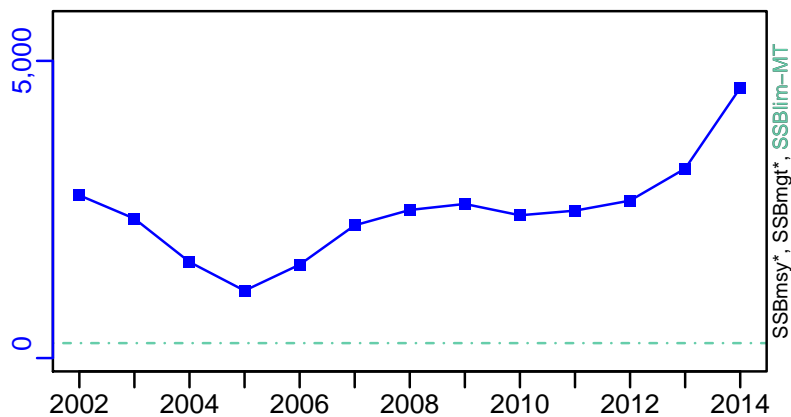
◆ Start Year ◆ End Year \* No Data

# Red shrimp Northern Spain [RDSHRMPMEDGSA6]

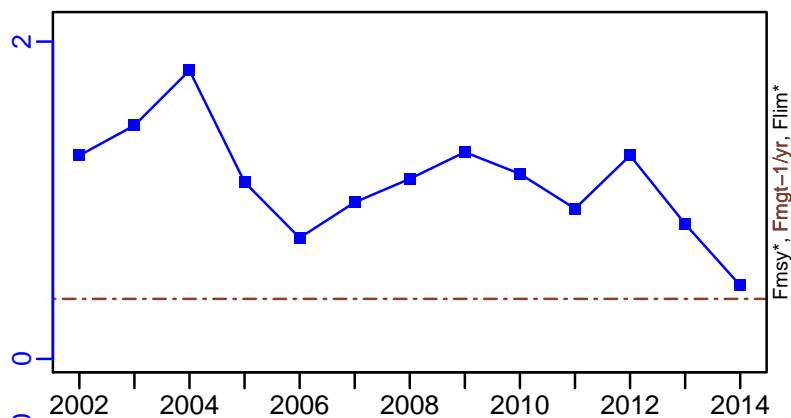
TB-MT (1996–2011–BANOB)



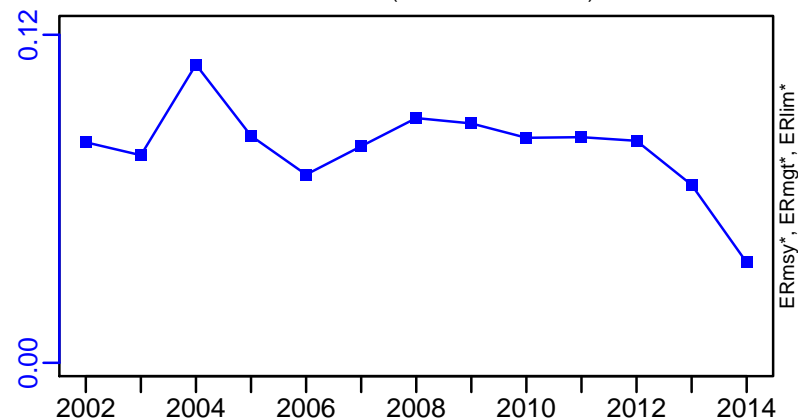
SSB-MT (2002–2014–OSIO)



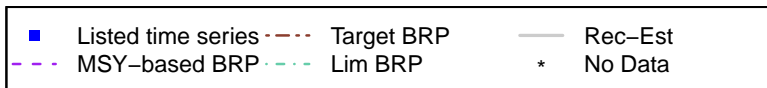
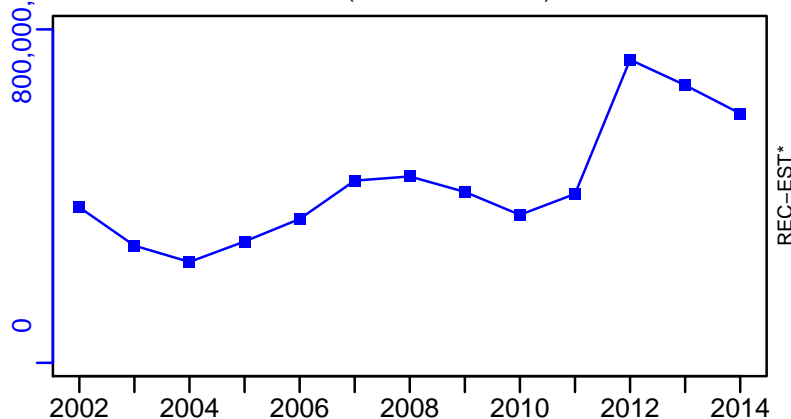
F-1/yr (2002–2014–OSIO)



ER-calc-ratio (2002–2014–OSIO)

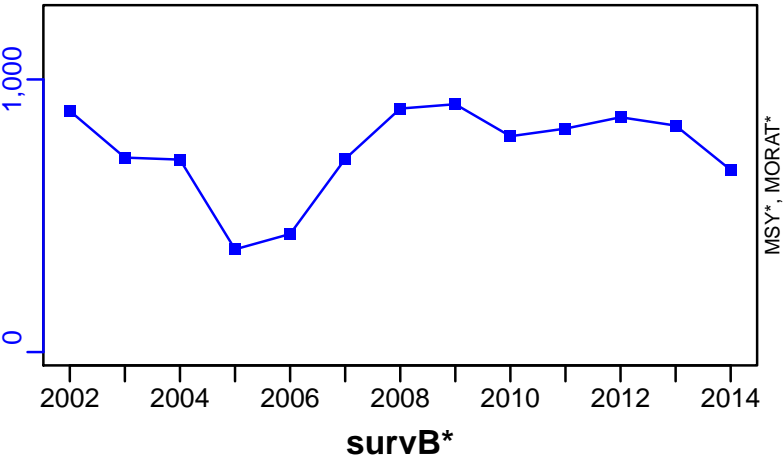


R-E00 (2002–2014–OSIO)



Red shrimp Northern Spain [RDSHRMPMEDGSA6]

TC-MT, TL\*, RecC\* (2002–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



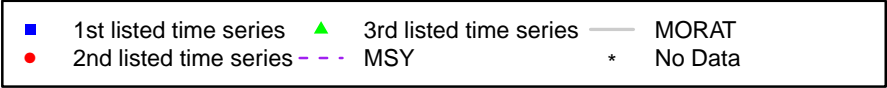
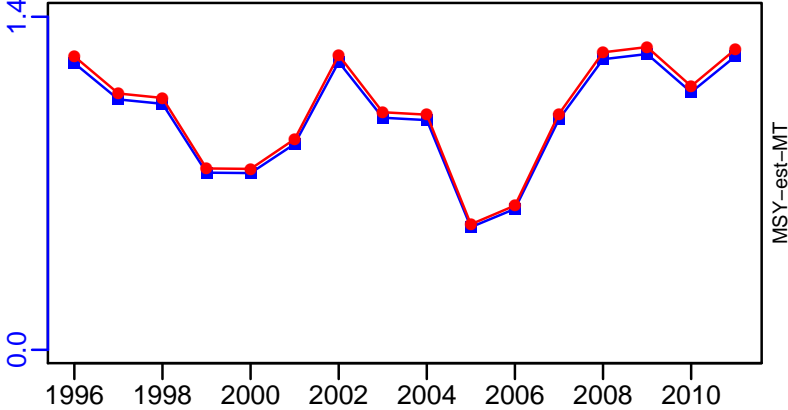
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1996–2011–BANOB)



## Red mullet Northern Alboran Sea [RMULLMEDGSA1]

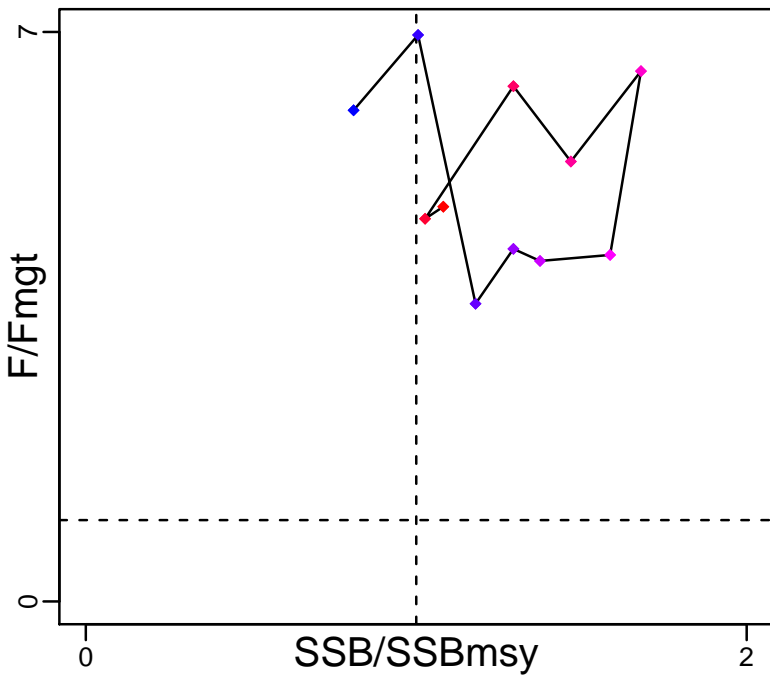
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA1-2003-2013-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	236
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.337
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.27
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	190
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

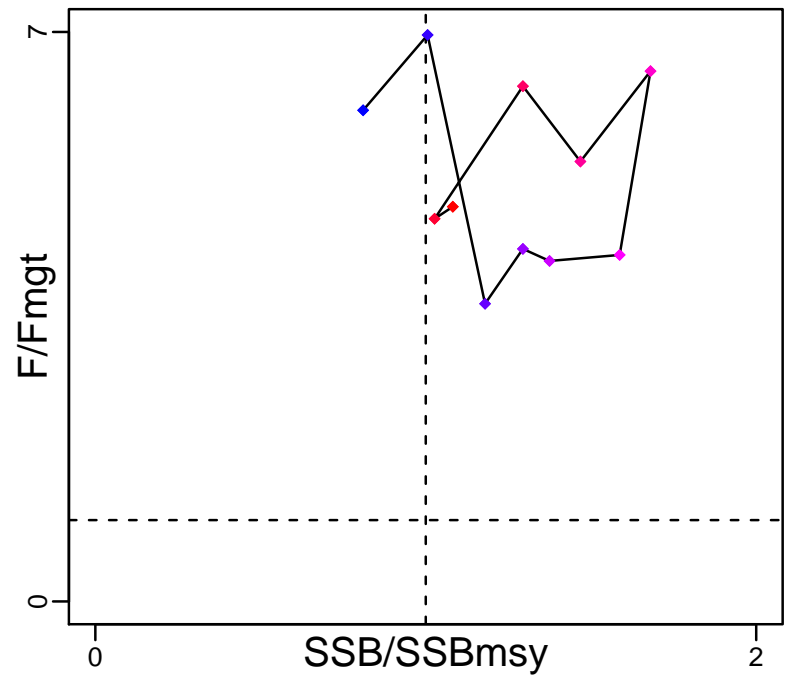
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	255	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	13,400,000	-	-
<b>F</b>	F-1/yr	2013	1.31	-	-
<b>ER</b>	ER-calc-ratio	2013	0.213	-	-
<b>TC</b>	TC-MT	2013	130		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	1.082		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	0.631		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	4.852		
<b>ER/ERmgt</b>	-	-	-		

# Red mullet Northern Alboran Sea [RMULLMEDGSA1]

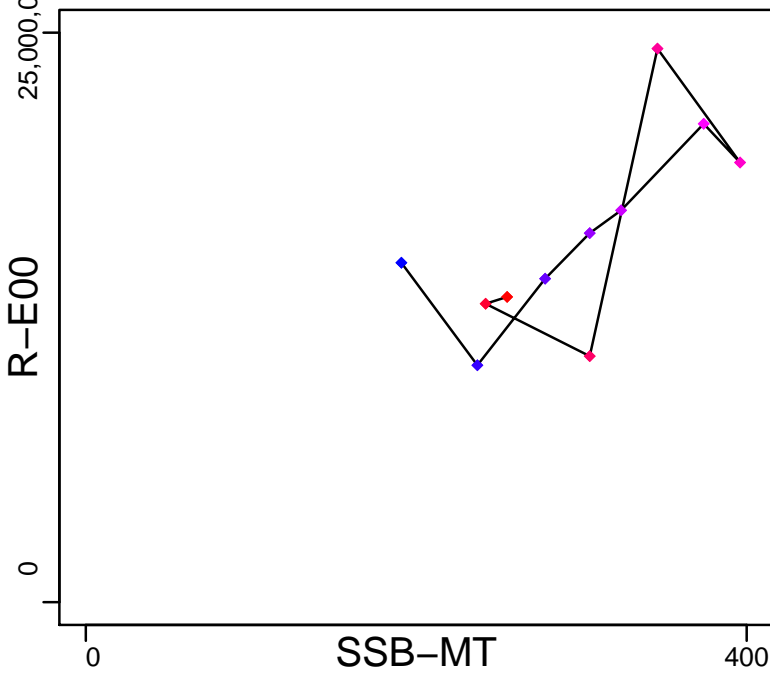
Kobe MSYpref (2003–2013–OSIO)



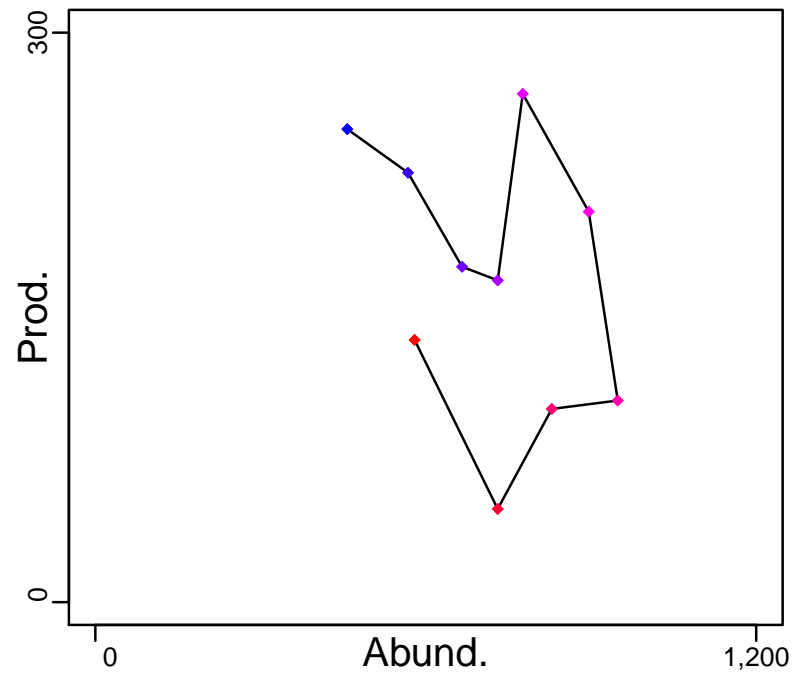
Kobe MGTpref (2003–2013–OSIO)



Spawner Recruit (2003–2013–OSIO)



Production (2003–2013–OSIO)



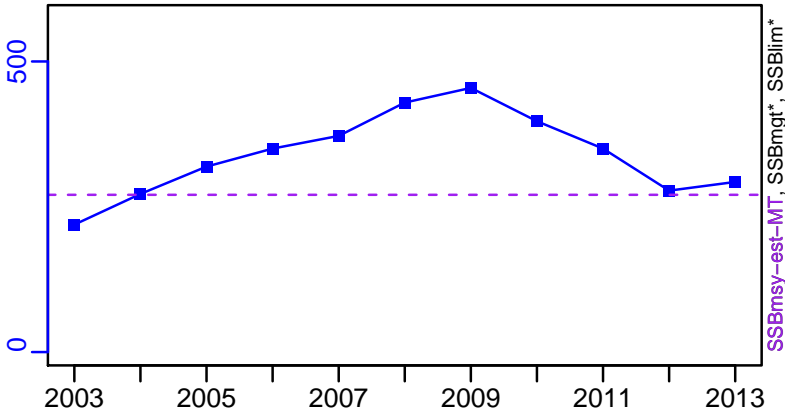
◆ Start Year ◆ End Year \* No Data

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

TB\*



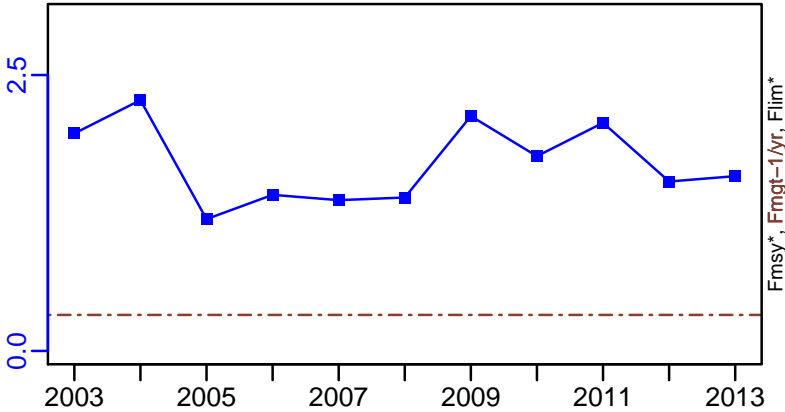
SSB-MT (2003–2013–OSIO)



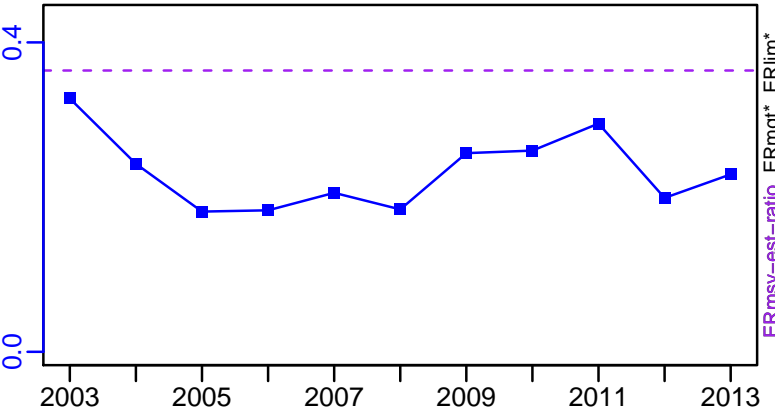
TN \*



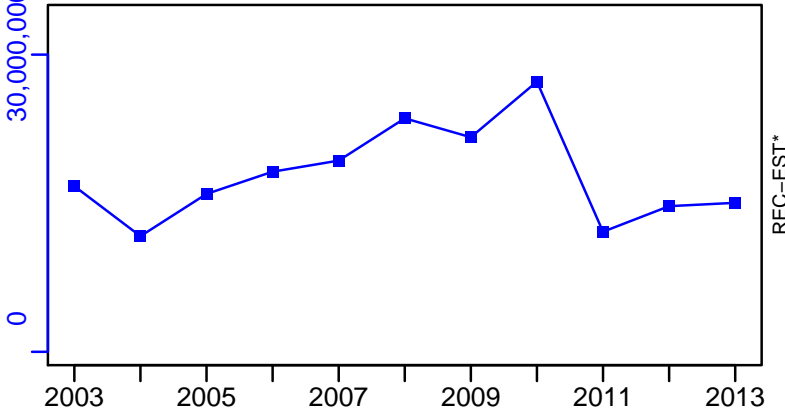
F-1/yr (2003–2013–OSIO)



ER-calc-ratio (2003–2013–OSIO)

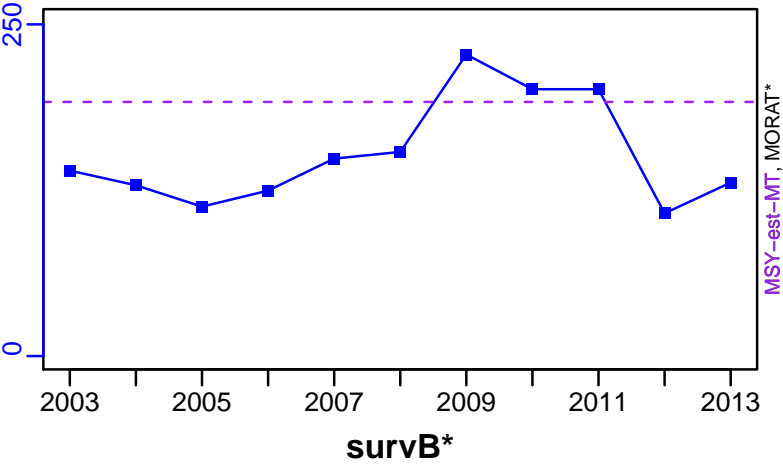


R-E00 (2003–2013–OSIO)



Red mullet Northern Alboran Sea [RMULLMEDGSA1]

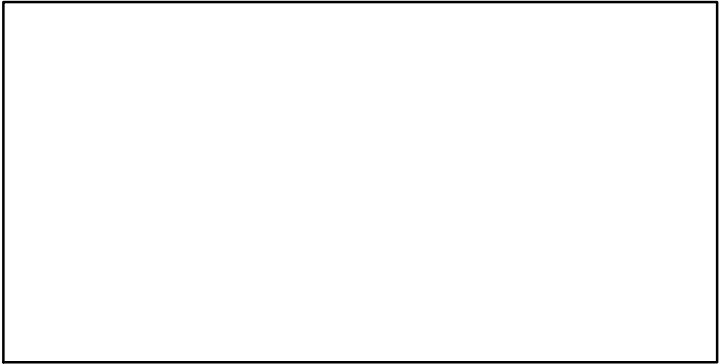
TC-MT, TL\*, RecC\* (2003-2013-OSIO)



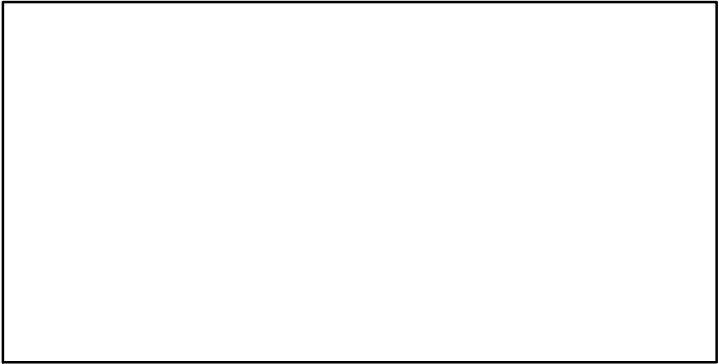
TAC\*, Cpair\*, Cadv\*



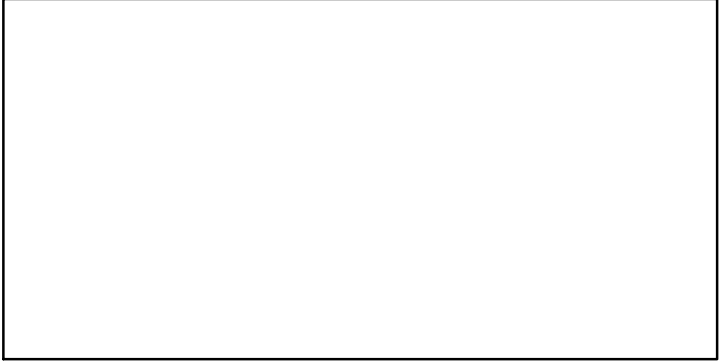
survB\*



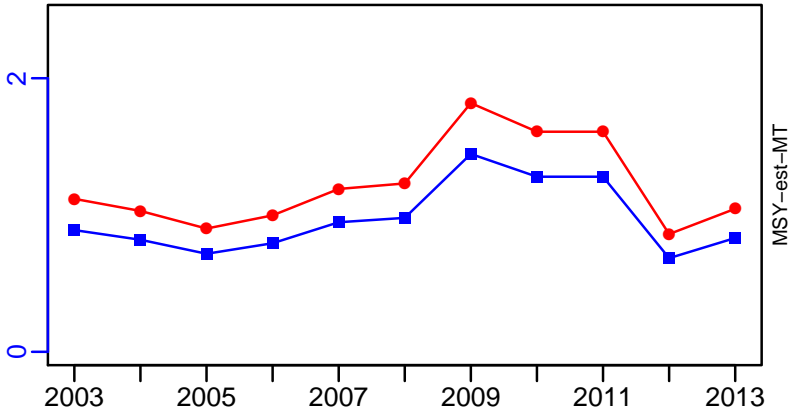
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003-2013-OSIO)



## Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA10-2004-2010-OSIO
<b>Area</b>	South Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.41
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2010	1.01	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	84		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2010	2.463		
ER/ERmgt	-	-	-		



Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year    ◆ End Year    \* No Data

Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

TB\*



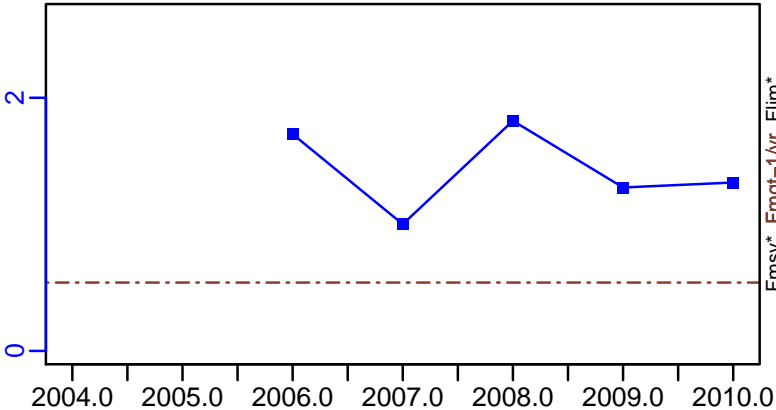
SSB\*



TN \*



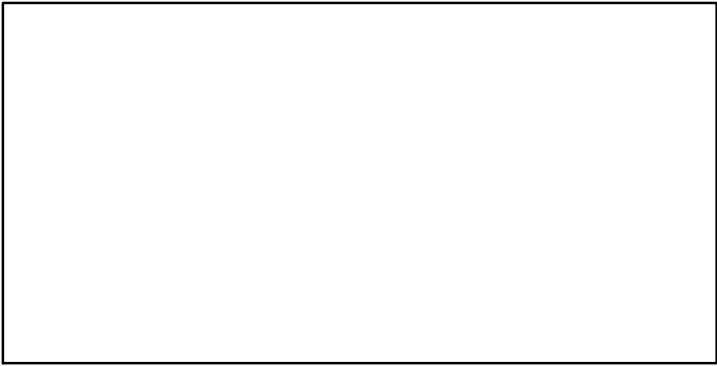
F-1/yr (2004-2010-OSIO)



ER\*

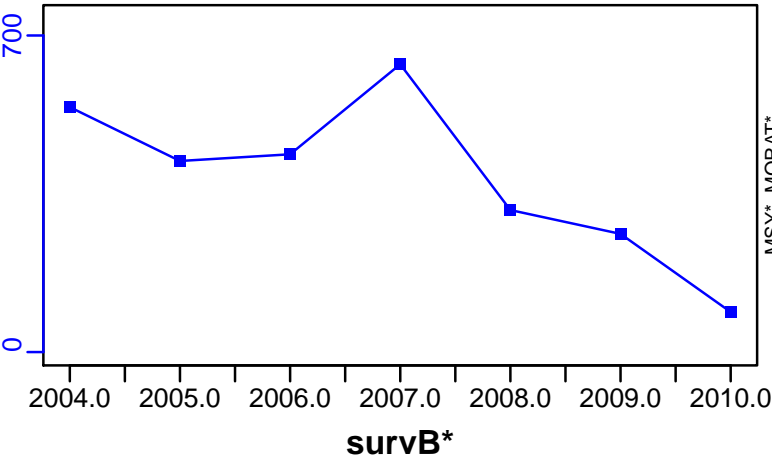


Recruits\*



Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

TC-MT, TL\*, RecC\* (2004-2010-OSIO)



TAC\*, Cpair\*, Cadv\*



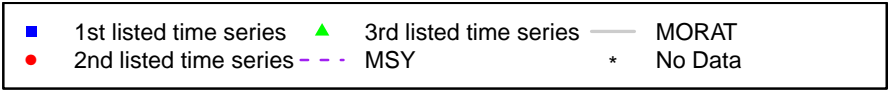
CPUE\*



EFFORT\*



CdivMSY\*



## Red mullet Sardinia [RMULLMEDGSA11]

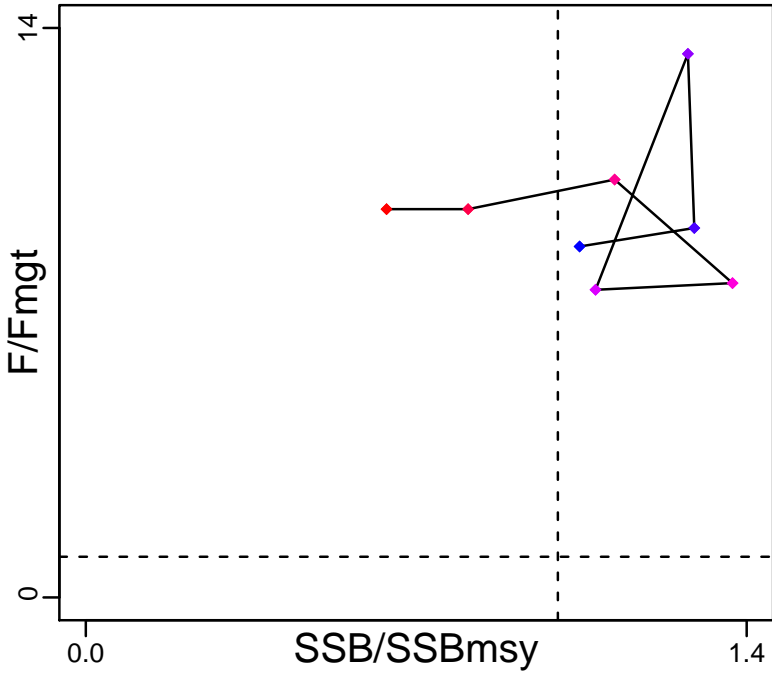
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA11-2005-2012-OSIO
<b>Area</b>	Sardinia
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2012	148
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.785
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.11
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	276
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

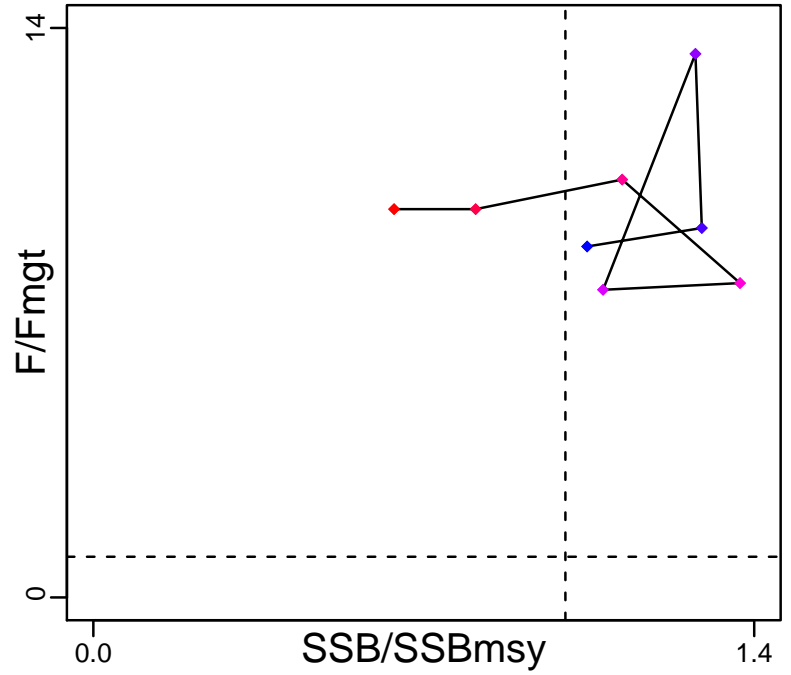
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	94	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	26,600,000	-	-
<b>F</b>	F-1/yr	2012	1.05	-	-
<b>ER</b>	ER-calc-ratio	2012	0.607	-	-
<b>TC</b>	TC-MT	2012	136		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	0.637		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.773		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	9.545		
<b>ER/ERmgt</b>	-	-	-		

# Red mullet Sardinia [RMULLMEDGSA11]

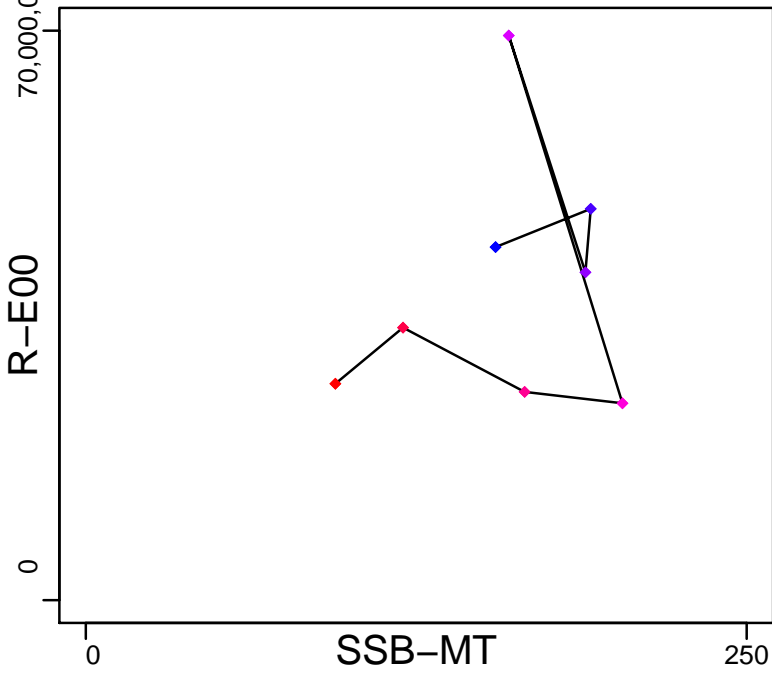
Kobe MSYpref (2005–2012–OSIO)



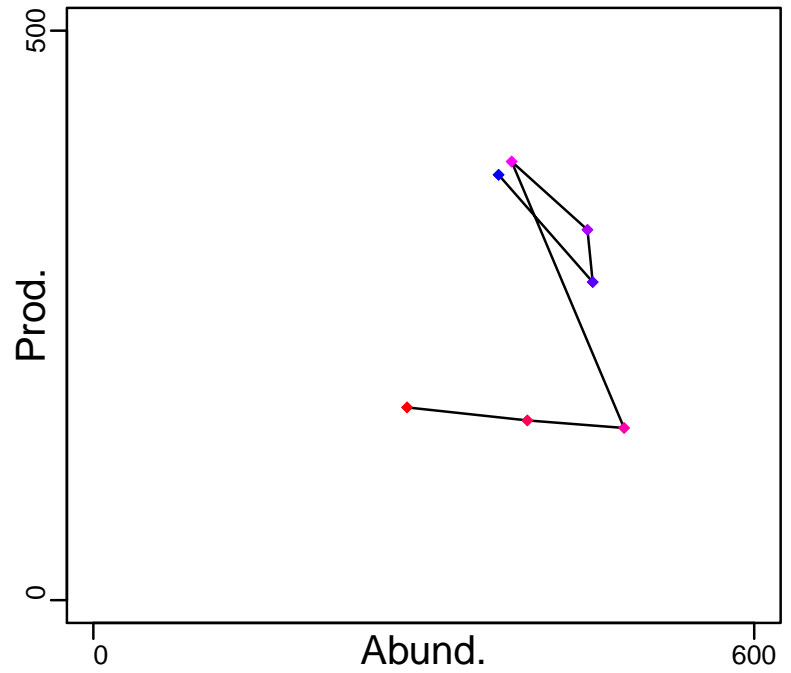
Kobe MGTpref (2005–2012–OSIO)



Spawner Recruit (2005–2012–OSIO)



Production (2005–2012–OSIO)



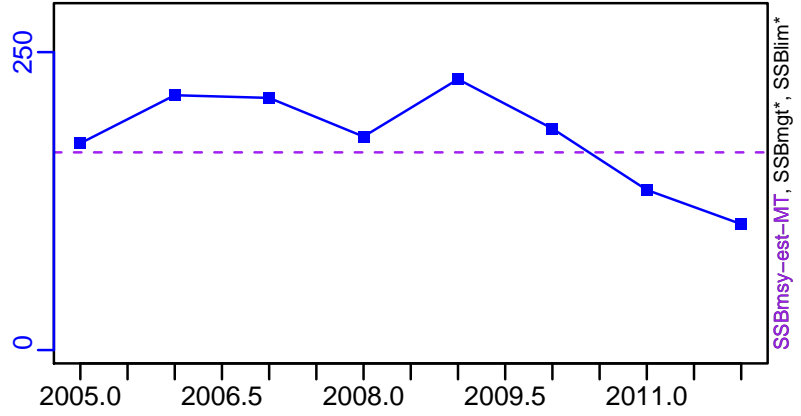
◆ Start Year ◆ End Year \* No Data

# Red mullet Sardinia [RMULLMEDGSA11]

TB\*



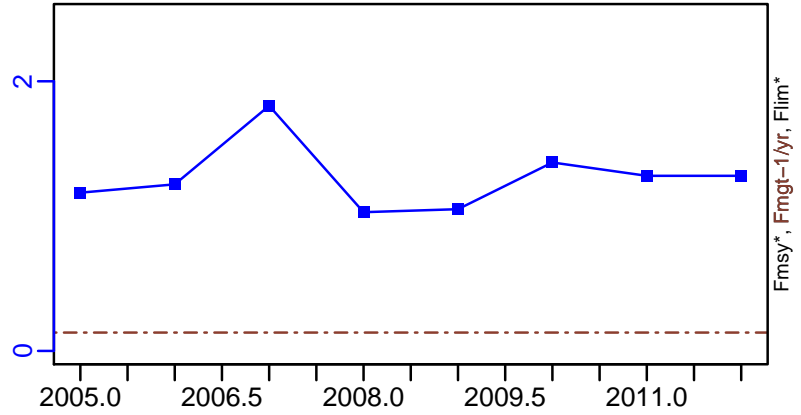
SSB-MT (2005–2012–OSIO)



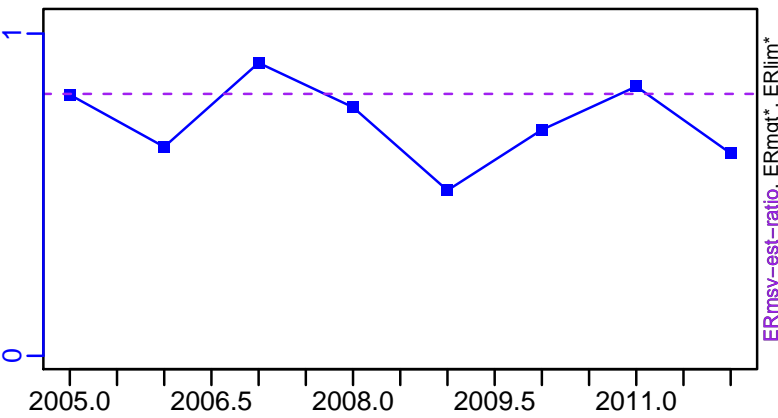
TN \*



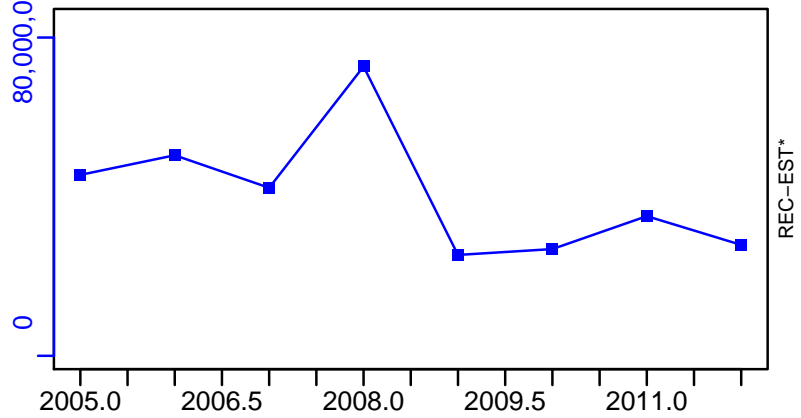
F-1/yr (2005–2012–OSIO)



ER-calc-ratio (2005–2012–OSIO)



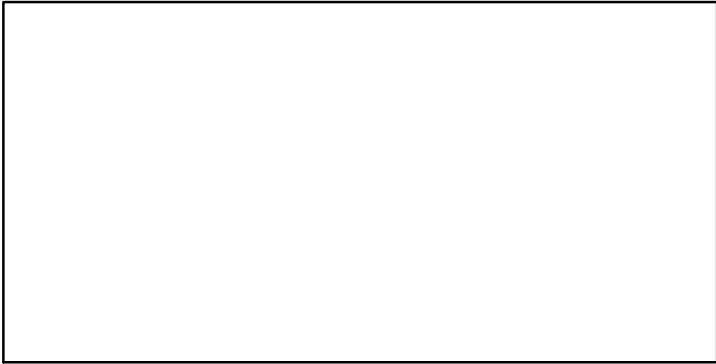
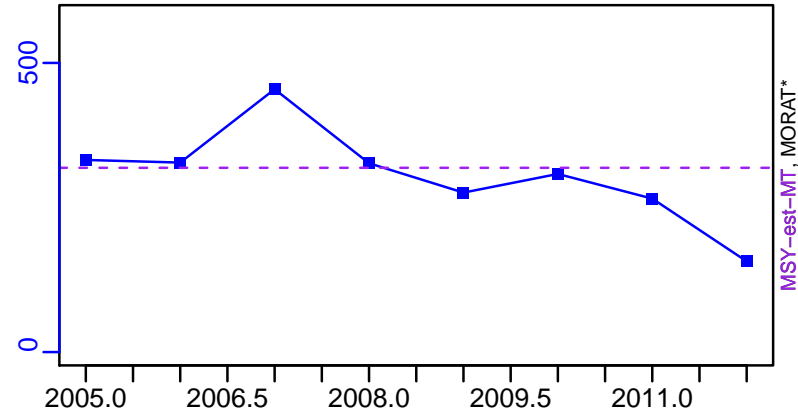
R-E00 (2005–2012–OSIO)



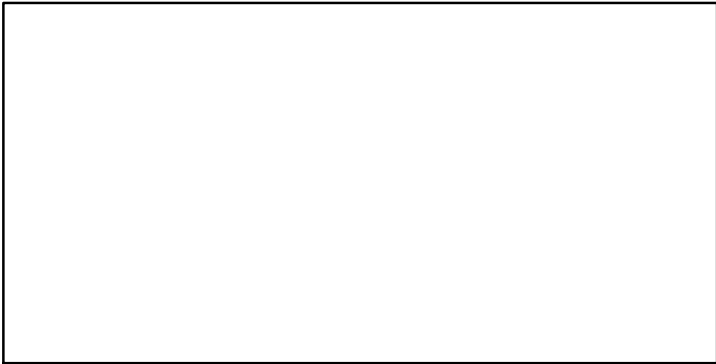
# Red mullet Sardinia [RMULLMEDGSA11]

TC-MT, TL\*, RecC\* (2005–2012–OSIO)

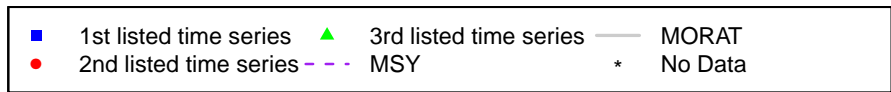
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005–2012–OSIO)



## Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA15-16-2005-2011-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

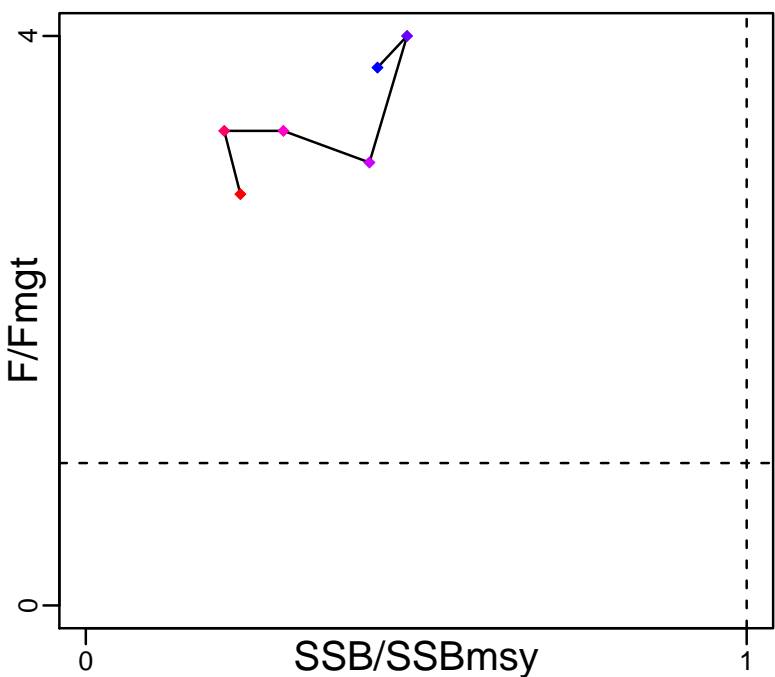
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2011	4917
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2011	0.065
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2011	0.45
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2011	780
<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>	SSB-MT	2011	1150	-	1.5+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2011	68,900,000	-	-
<b>F</b>	F-1/yr	2011	1.3	-	-
<b>ER</b>	ER-calc-ratio	2011	0.218	-	-
<b>TC</b>	TC-MT	2011	609		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2011	0.234		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2011	3.339		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2011	2.889		
<b>ER/ERmgt</b>	-	-	-		

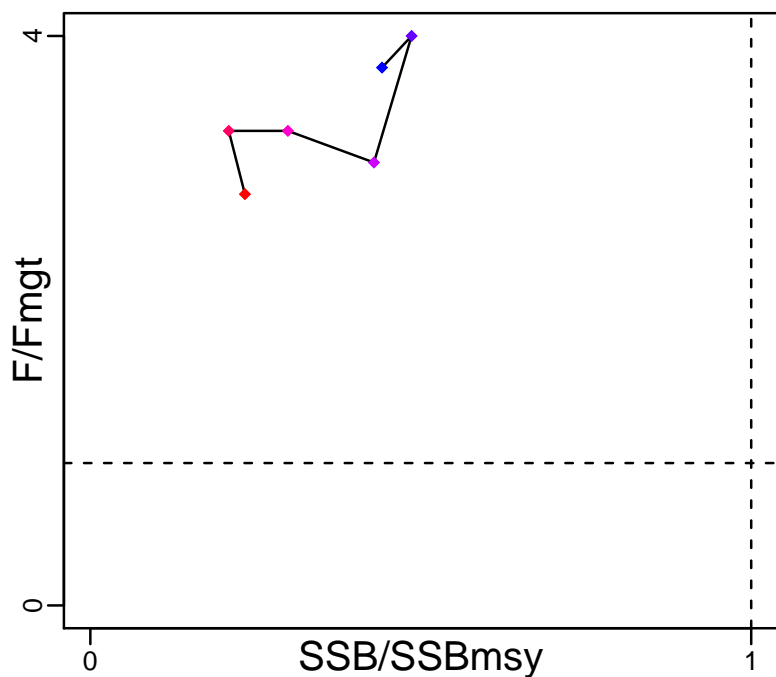


# Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

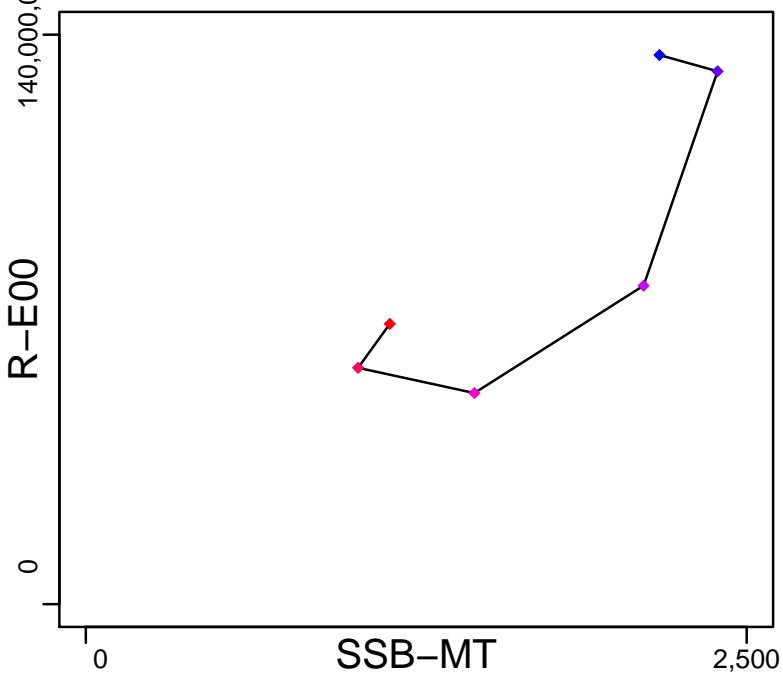
Kobe MSYpref (2005-2011-OSIO)



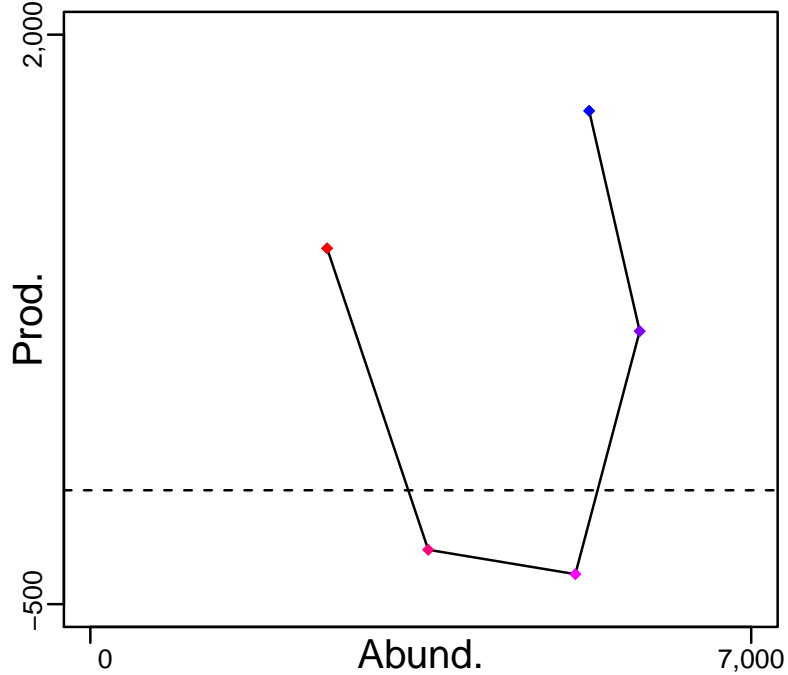
Kobe MGTpref (2005-2011-OSIO)



Spawner Recruit (2005-2011-OSIO)



Production (2005-2011-OSIO)



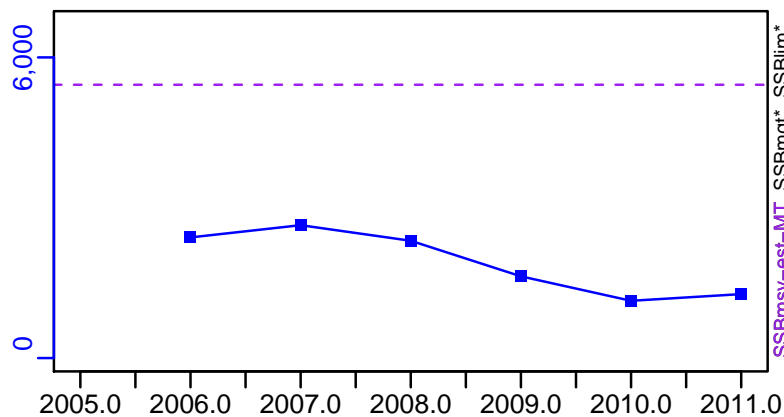
◆ Start Year ◆ End Year \* No Data

# Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

TB\*



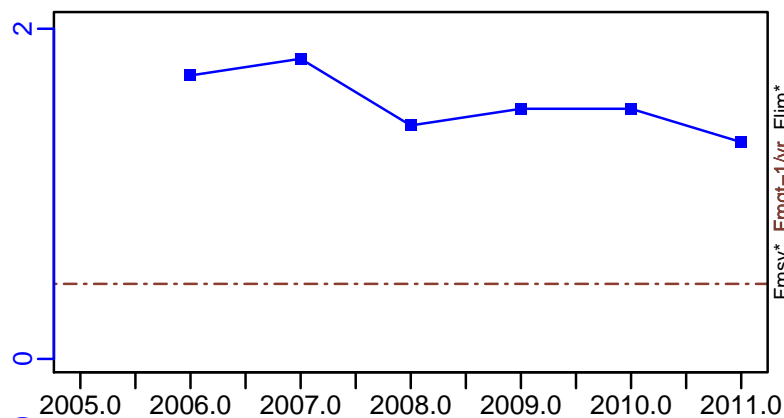
SSB-MT (2005-2011-OSIO)



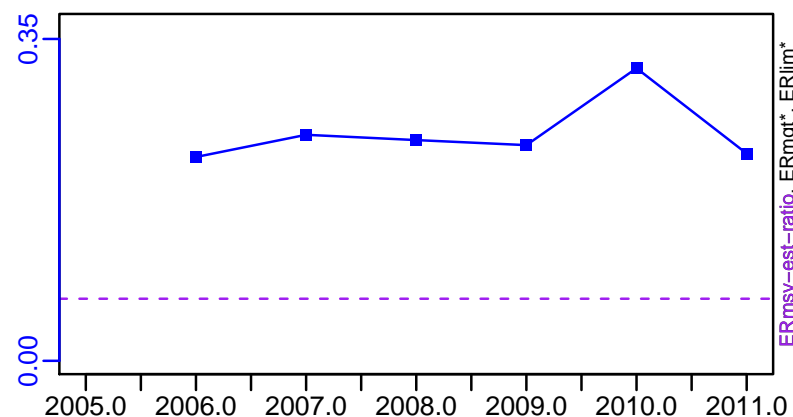
TN \*



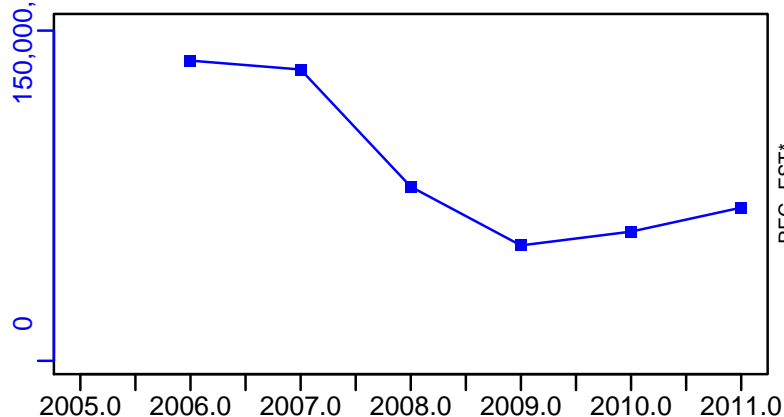
F-1/yr (2005-2011-OSIO)



ER-calc-ratio (2005-2011-OSIO)

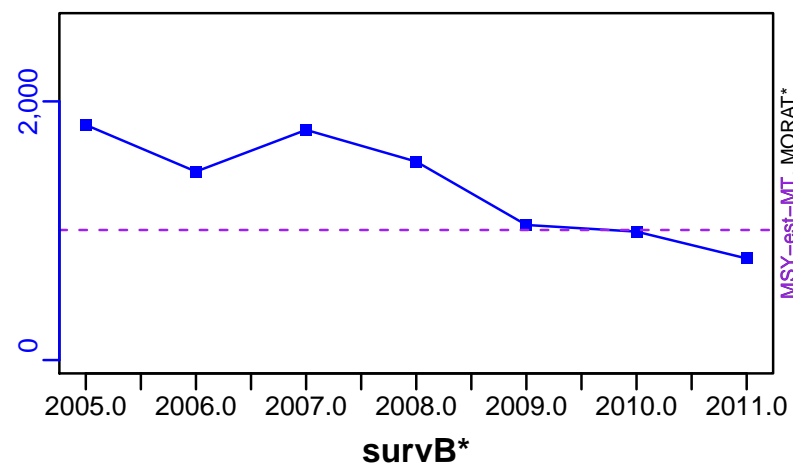


R-E00 (2005-2011-OSIO)



# Red mullet Malta Island and South of Sicily (GSA 15, 16) [RMULLMEDGSA15-16]

TC-MT, TL\*, RecC\* (2005-2011-OSIO)



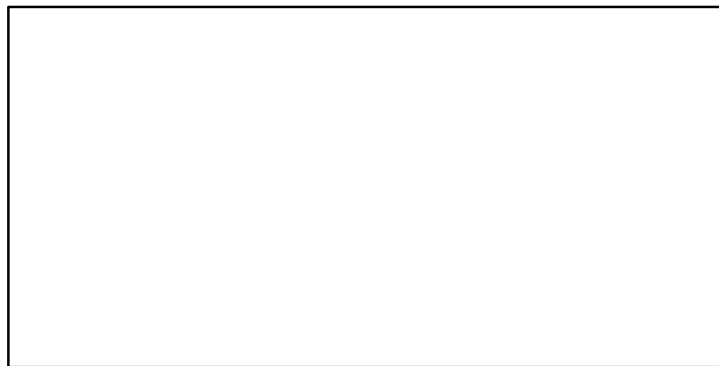
TAC\*, Cpair\*, Cadv\*



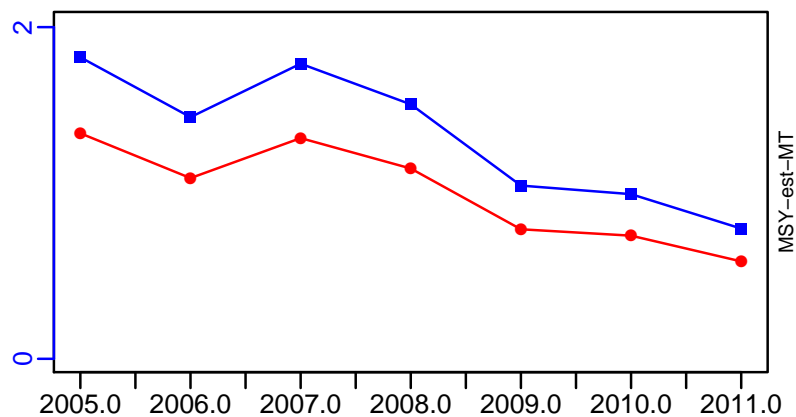
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2005-2011-OSIO)



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

## Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

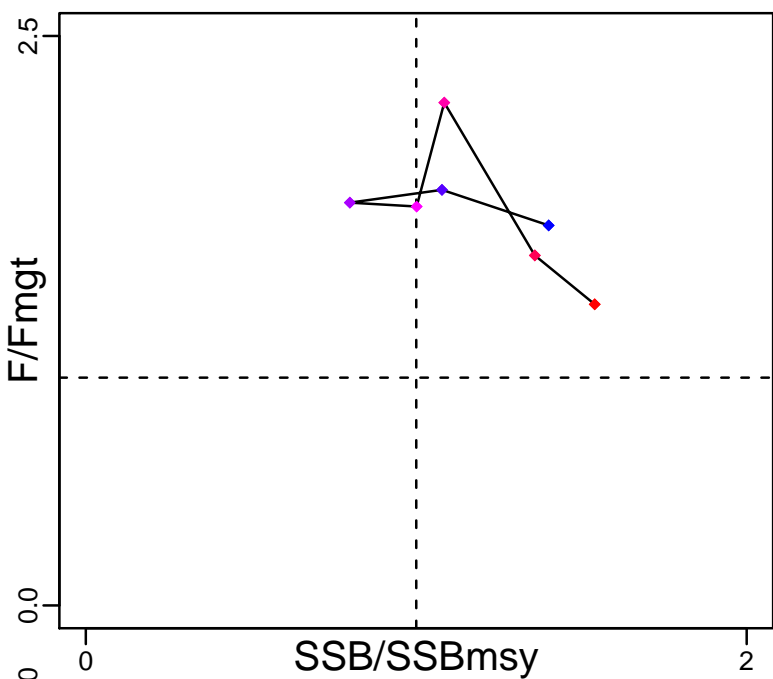
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA17-18-2008-2014-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	4305
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.598
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.41
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	6112
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

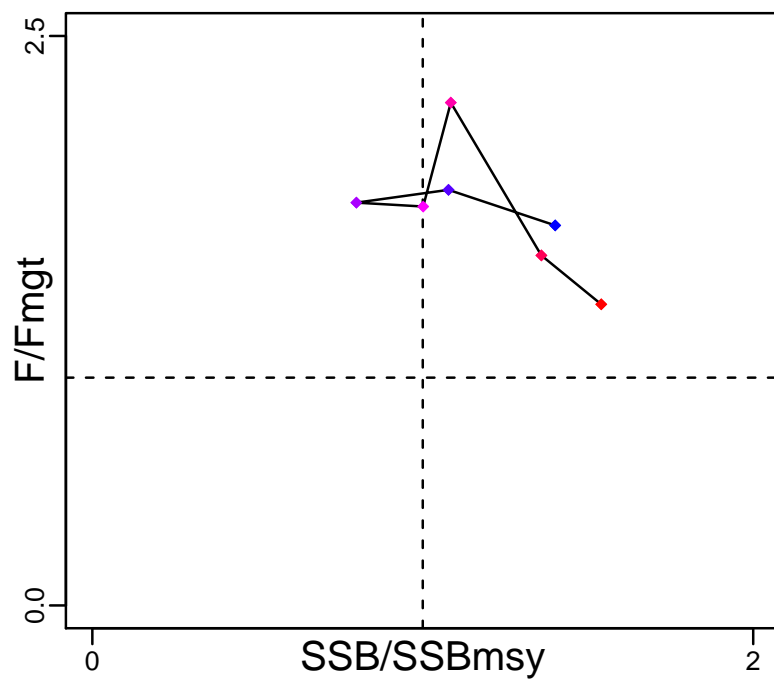
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	6630	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.17 \times 10^9$	-	-
<b>F</b>	F-1/yr	2014	0.542	-	-
<b>ER</b>	ER-calc-ratio	2014	0.419	-	-
<b>TC</b>	TC-MT	2014	6600		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.54		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.701		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.322		
<b>ER/ERmgt</b>	-	-	-		

# Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

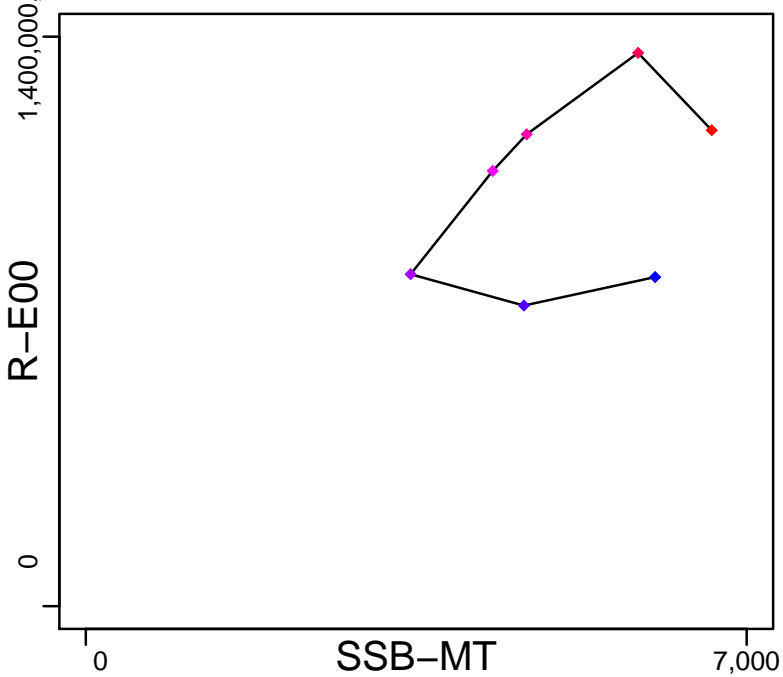
Kobe MSYpref (2008–2014–OSIO)



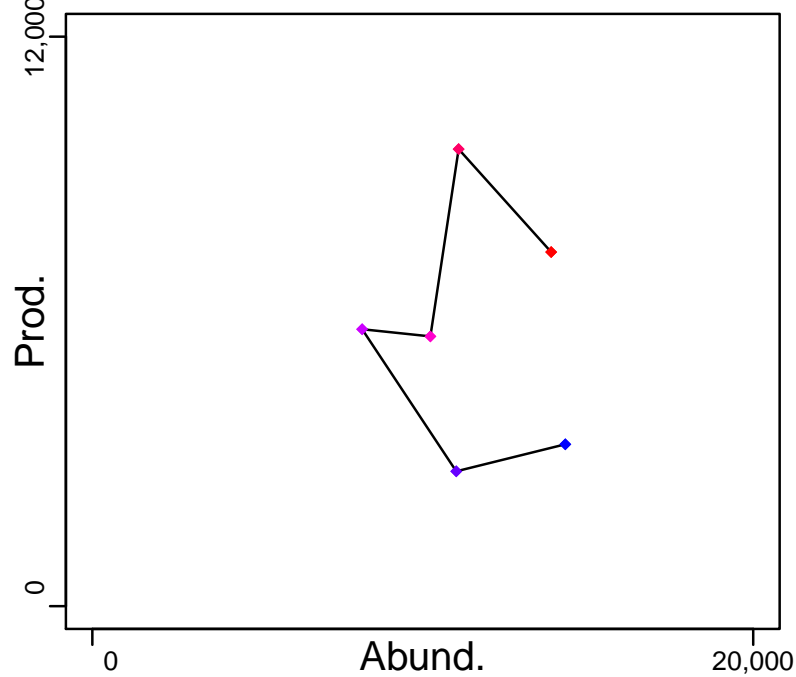
Kobe MGTpref (2008–2014–OSIO)



Spawner Recruit (2008–2014–OSIO)



Production (2008–2014–OSIO)



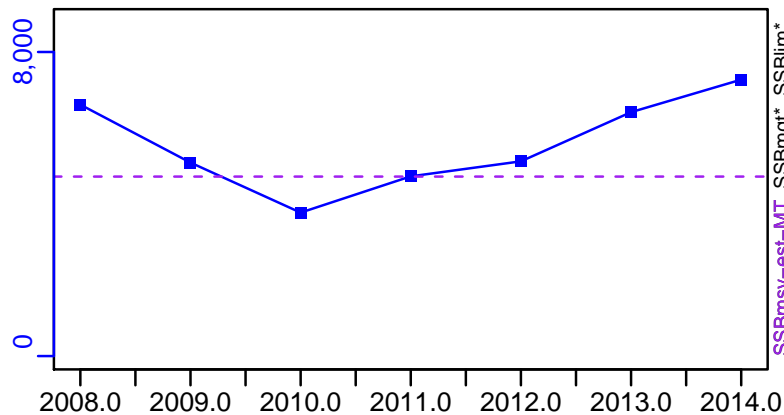
◆ Start Year ◆ End Year \* No Data

# Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

TB\*



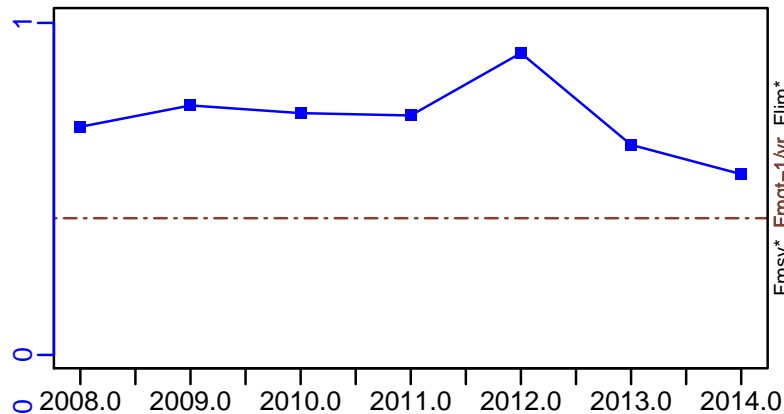
SSB-MT (2008-2014-OSIO)



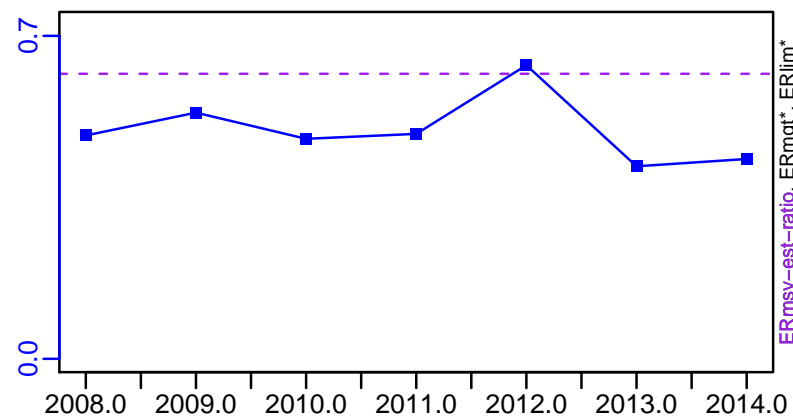
TN \*



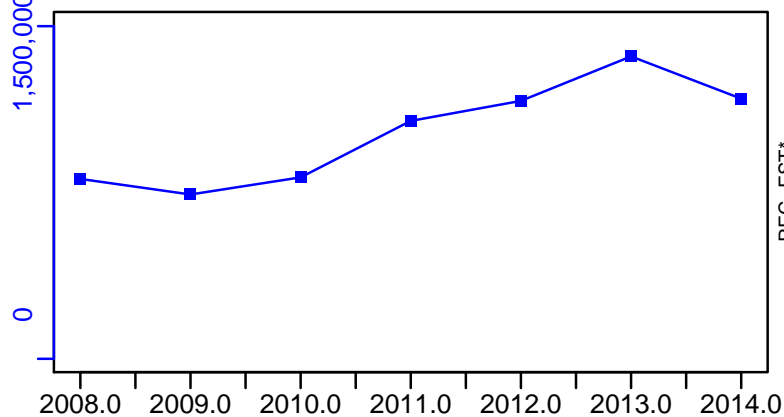
F-1/yr (2008-2014-OSIO)



ER-calc-ratio (2008-2014-OSIO)

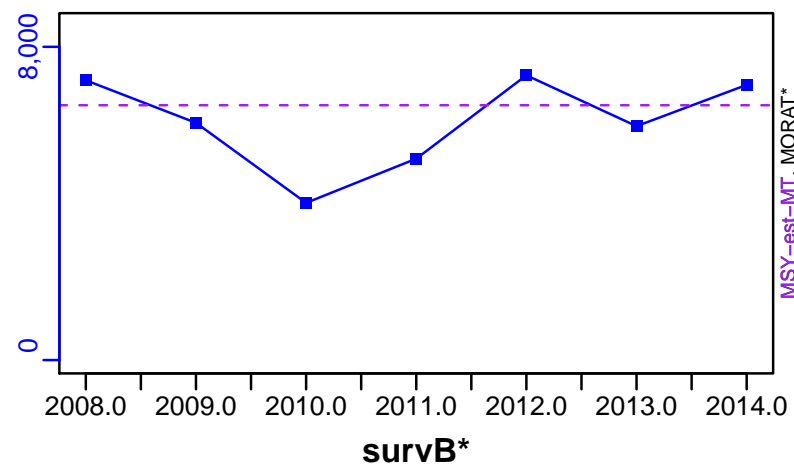


R-E00 (2008-2014-OSIO)



# Red mullet Adriatic Sea (GSA 17,18) [RMULLMEDGSA17-18]

TC-MT, TL\*, RecC\* (2008-2014-OSIO)



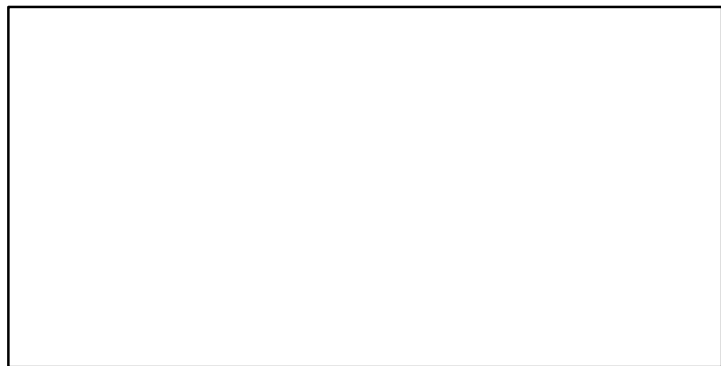
TAC\*, Cpair\*, Cadv\*



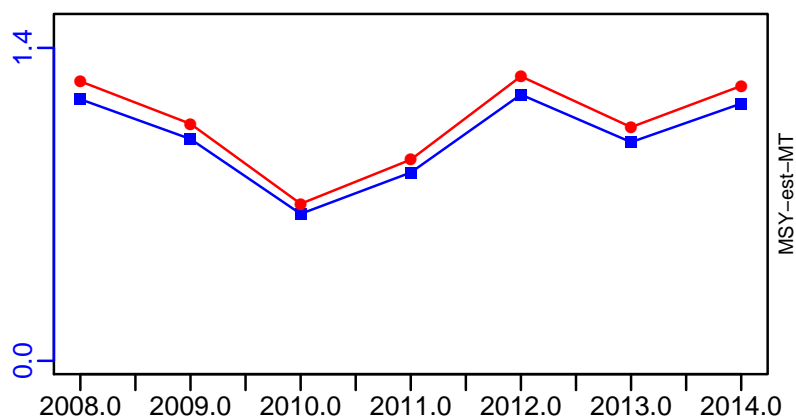
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2008-2014-OSIO)



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

## Red mullet Western Ionian Sea [RMULLMEDGSA19]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA19-2006-2014-OSIO
<b>Area</b>	Western Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

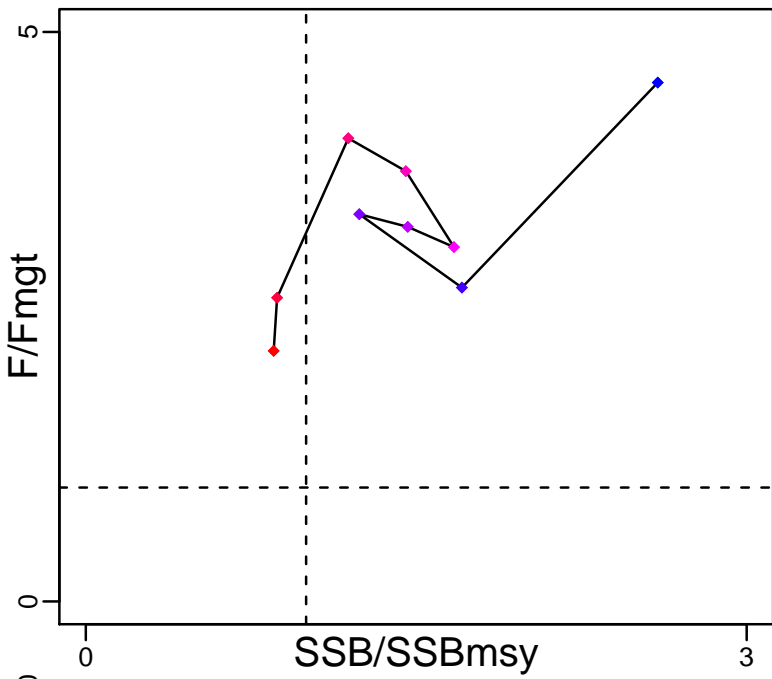
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	582
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.28
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.45
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	391
<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>	SSB-MT	2014	496	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	40,100,000	-	-
<b>F</b>	F-1/yr	2014	0.99	-	-
<b>ER</b>	ER-calc-ratio	2014	0.225	-	-
<b>TC</b>	TC-MT	2014	269		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.853		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.806		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	2.2		
<b>ER/ERmgt</b>	-	-	-		

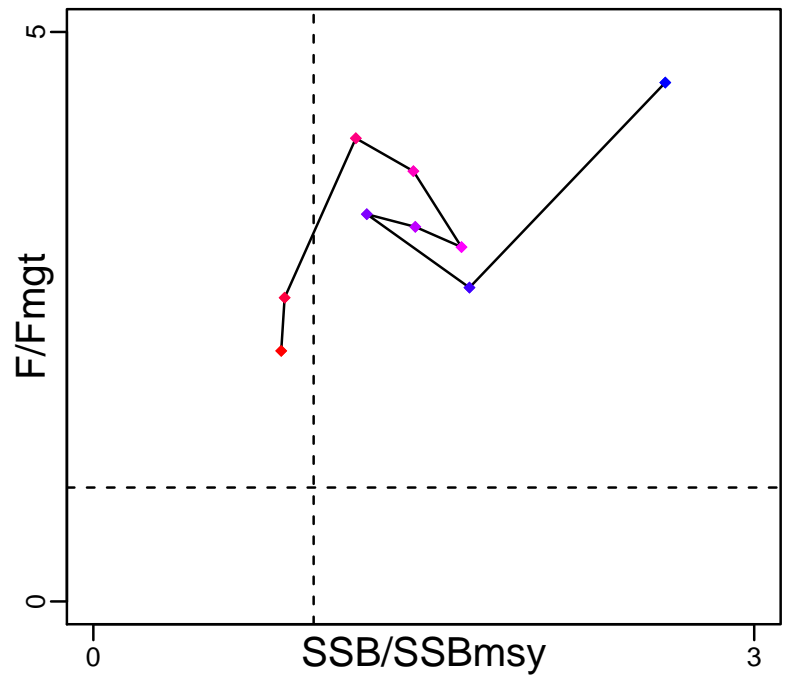


# Red mullet Western Ionian Sea [RMULLMEDGSA19]

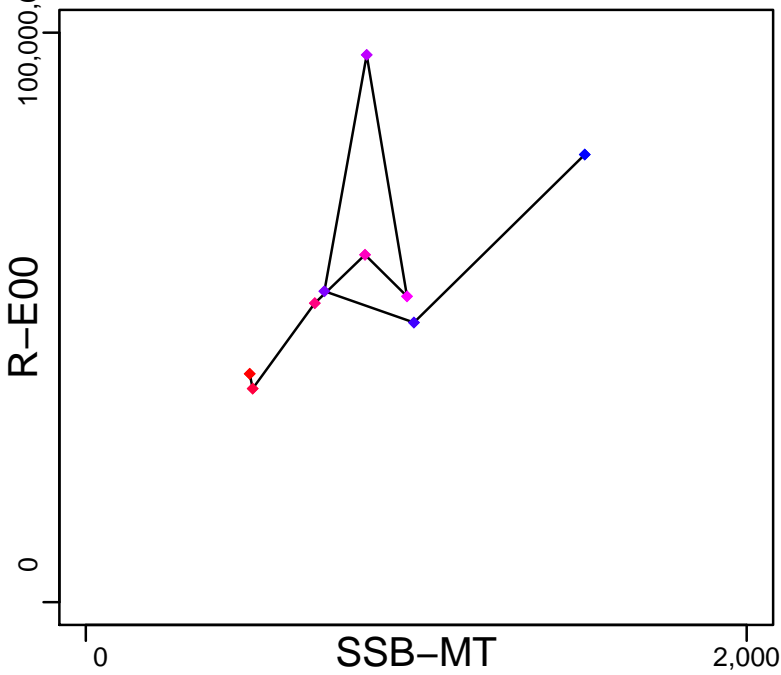
Kobe MSYpref (2006–2014–OSIO)



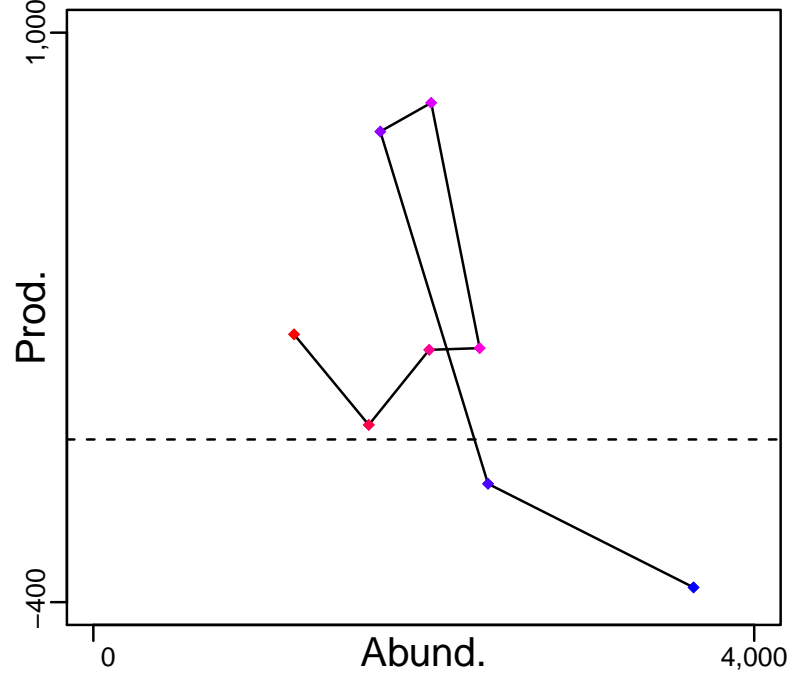
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



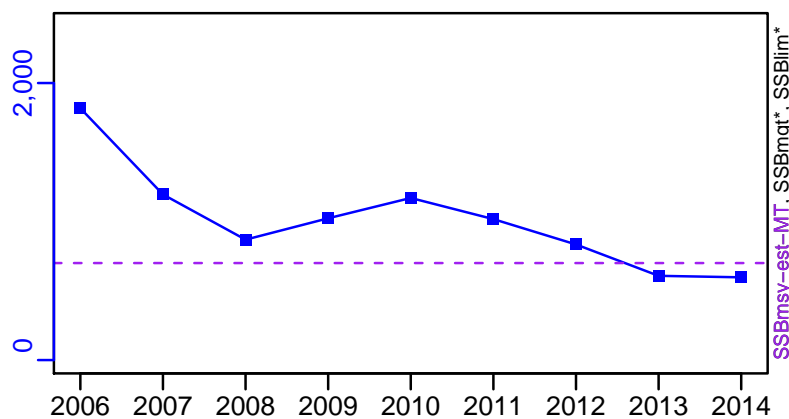
◆ Start Year ◆ End Year \* No Data

# Red mullet Western Ionian Sea [RMULLMEDGSA19]

TB\*



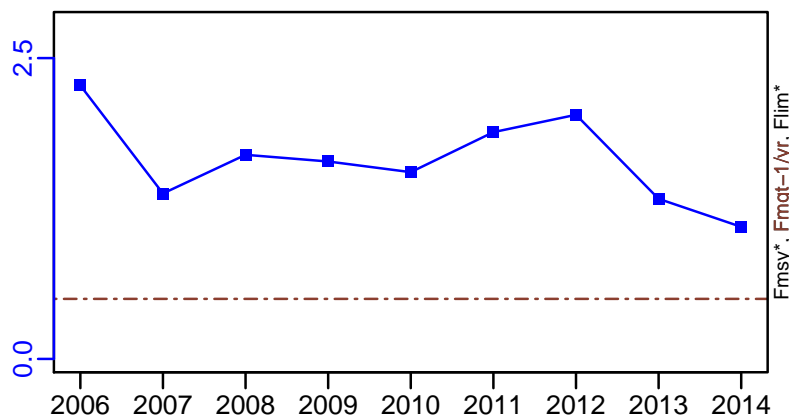
SSB-MT (2006–2014–OSIO)



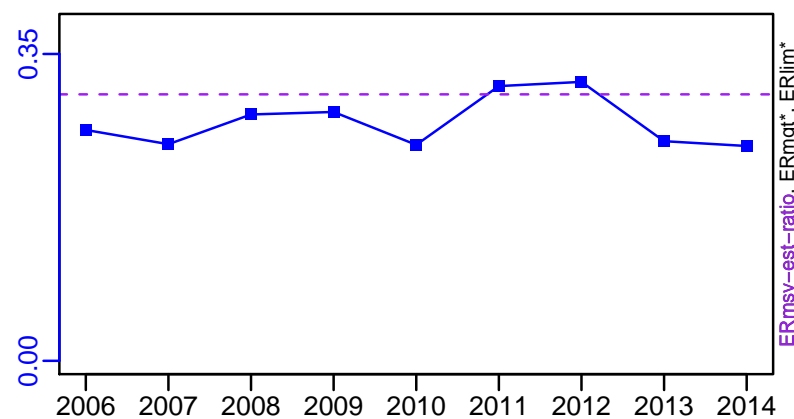
TN \*



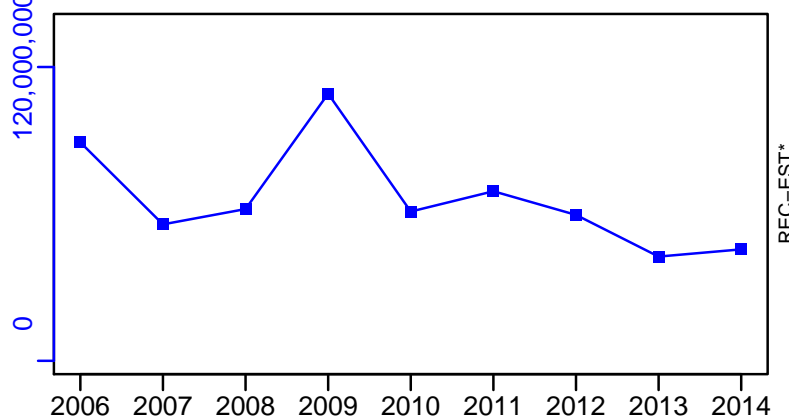
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

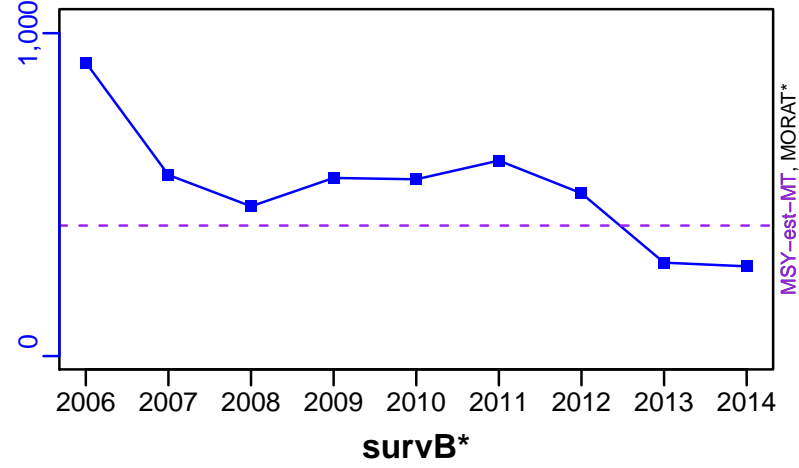


R-E00 (2006–2014–OSIO)

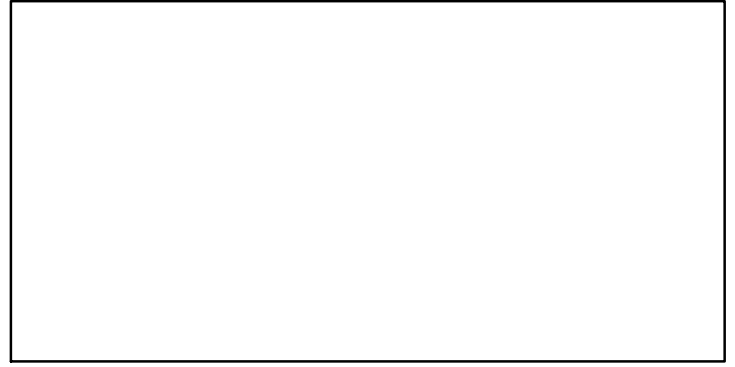


# Red mullet Western Ionian Sea [RMULLMEDGSA19]

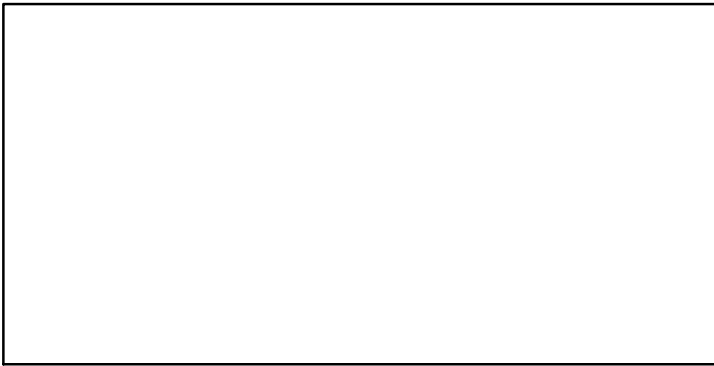
TC-MT, TL\*, RecC\* (2006–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



survB\*



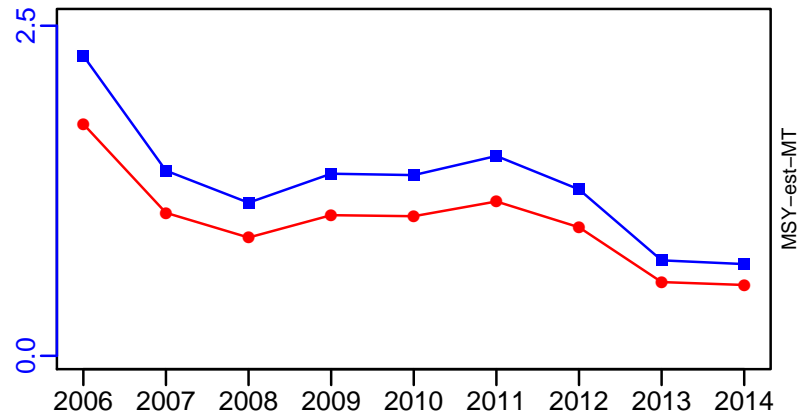
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2014–OSIO)



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

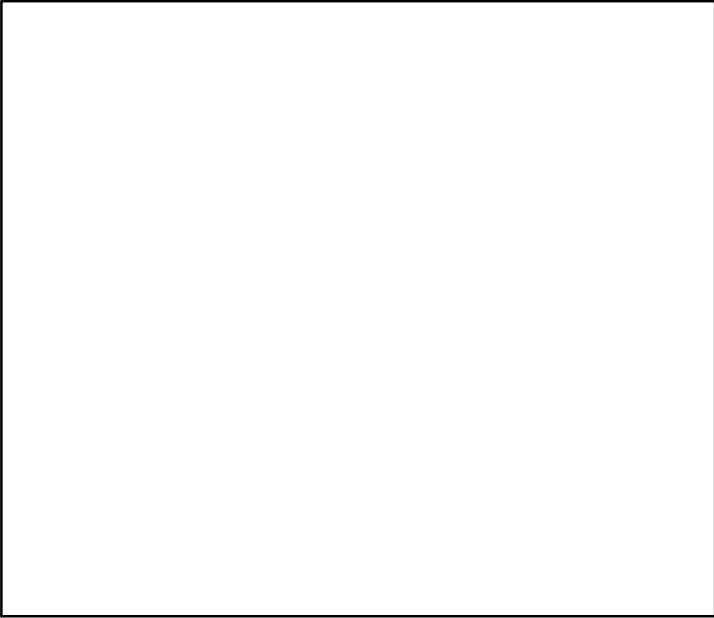
## Red mullet Cyprus Island [RMULLMEDGSA25]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA25-2005-2008-OSIO
<b>Area</b>	Cyprus Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

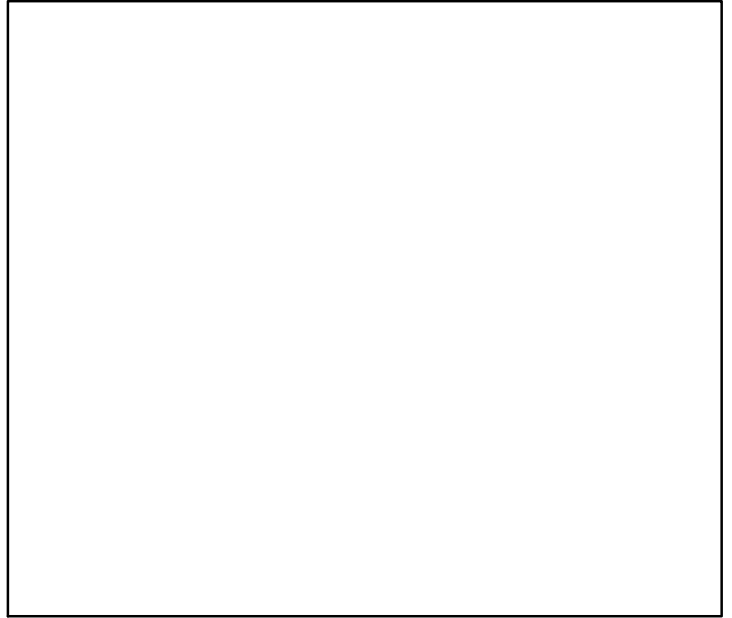
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2008	0.22
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2008	58	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	1,480,000	-	-
<b>F</b>	F-1/yr	2008	0.84	-	-
<b>ER</b>	ER-calc-ratio	2008	0.239	-	-
<b>TC</b>	TC-MT	2008	33		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2008	3.818		
<b>ER/ERmgt</b>	-	-	-		

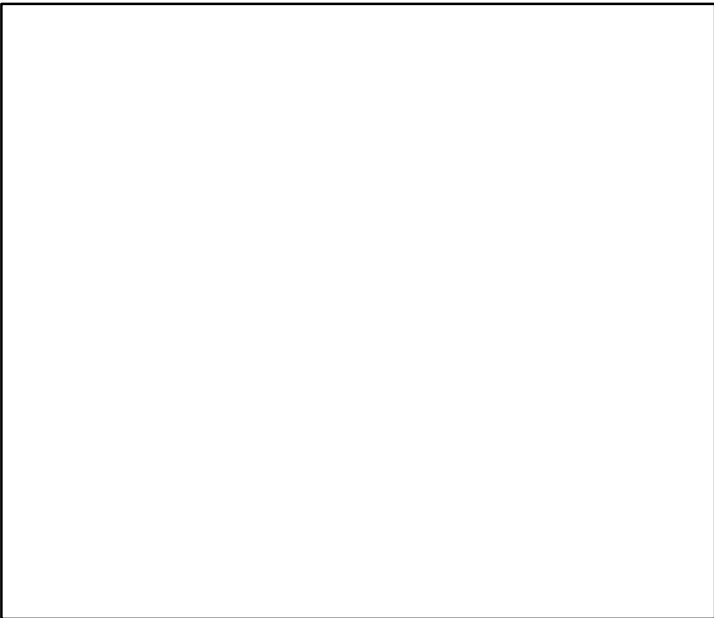
**Kobe MSY\***



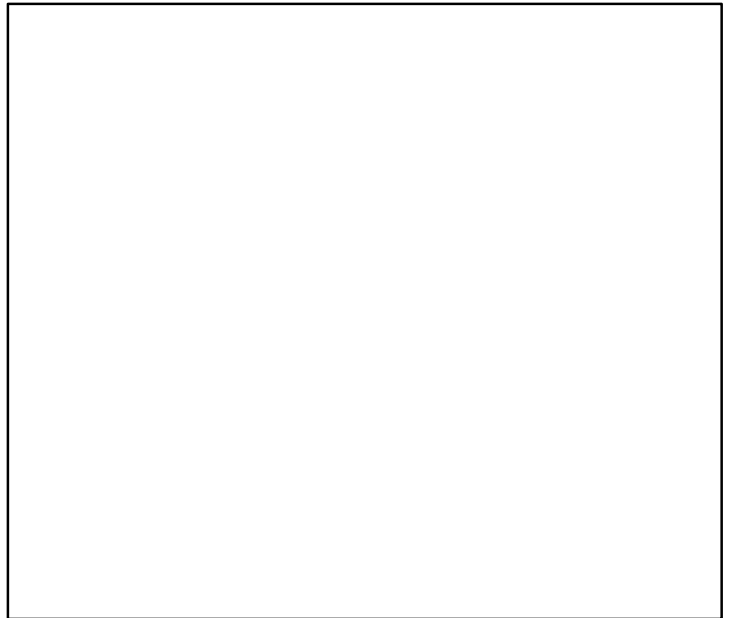
**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year   ◆ End Year   \* No Data

# Red mullet Cyprus Island [RMULLMEDGSA25]

TB\*



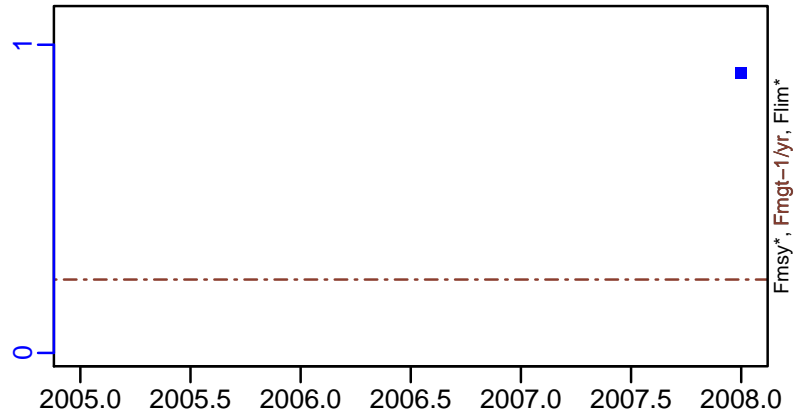
SSB-MT (2005–2008–OSIO)



TN \*



F-1/yr (2005–2008–OSIO)



ER-calc-ratio (2005–2008–OSIO)

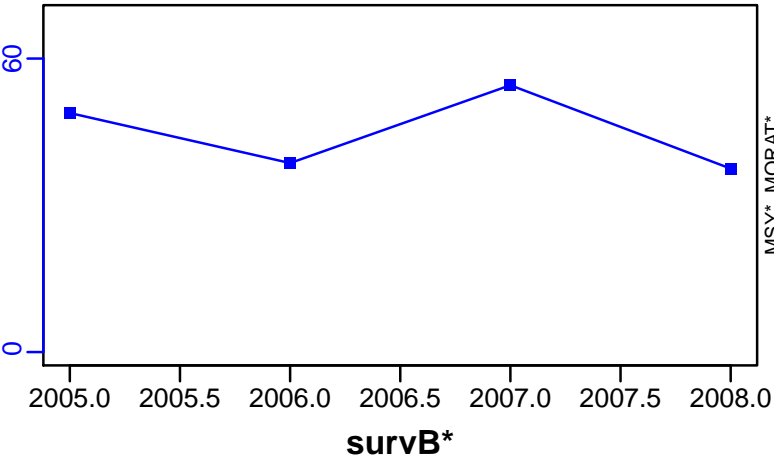


R-E00 (2005–2008–OSIO)



Red mullet Cyprus Island [RMULLMEDGSA25]

TC-MT, TL\*, RecC\* (2005-2008-OSIO)



TAC\*, Cpair\*, Cadv\*



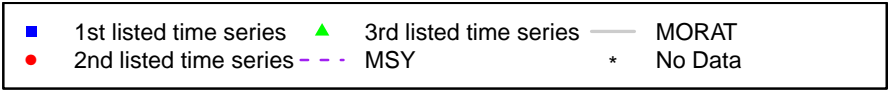
CPUE\*



EFFORT\*



CdivMSY\*



## Red mullet Black Sea [RMULLMEDGSA29]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA29-1990-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

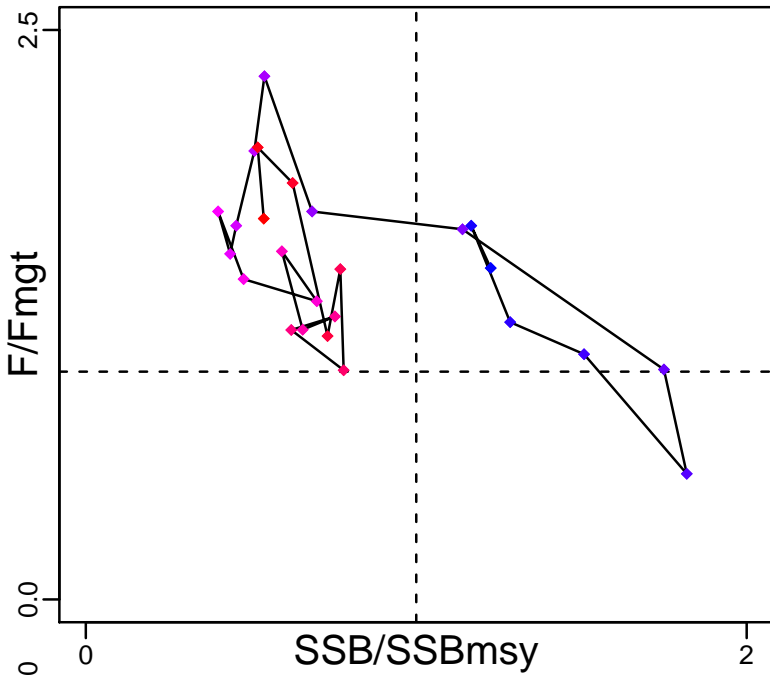
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	4921
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.25
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.64
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	2947
<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>	SSB-MT	2014	2650	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$7.69 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	1.07	-	-
<b>ER</b>	ER-calc-ratio	2014	0.613	-	-
<b>TC</b>	TC-MT	2014	3900		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.538		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	2.458		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.672		
<b>ER/ERmgt</b>	-	-	-		

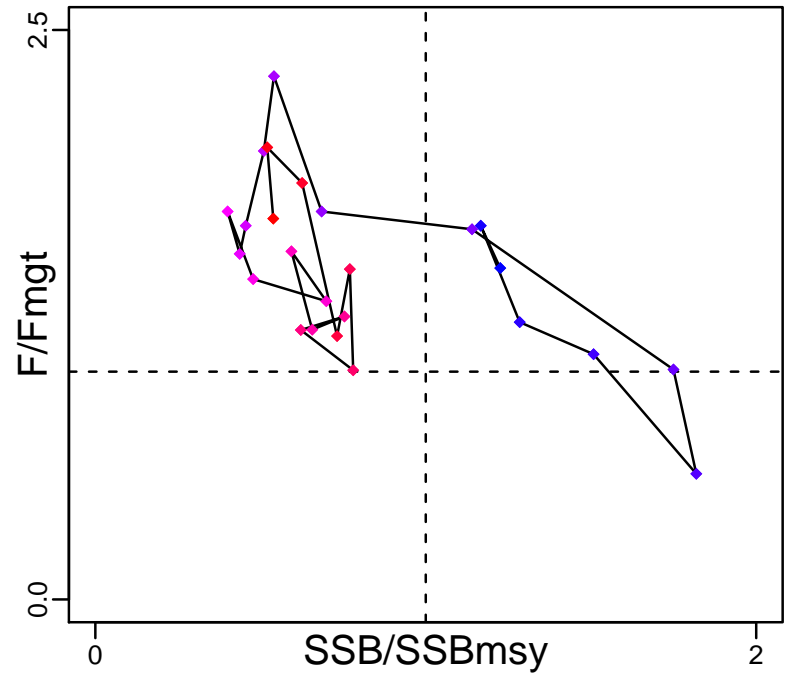


# Red mullet Black Sea [RMULLMEDGSA29]

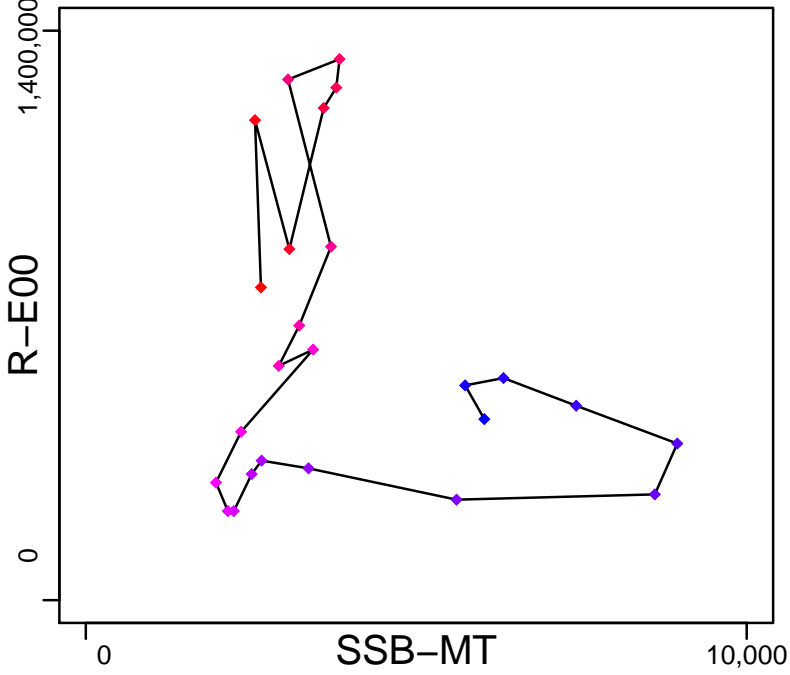
Kobe MSYpref (1990–2014–OSIO)



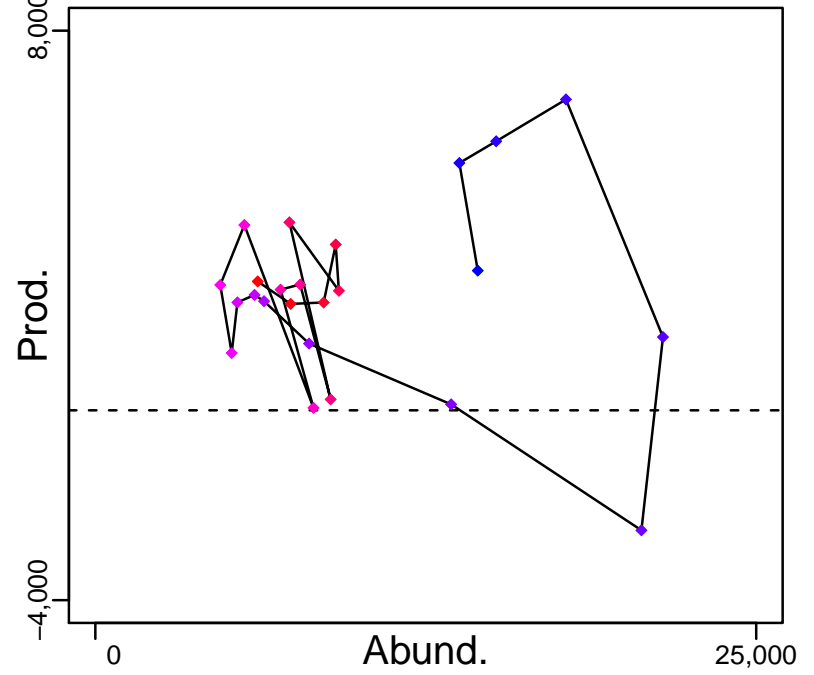
Kobe MGTpref (1990–2014–OSIO)



Spawner Recruit (1990–2014–OSIO)



Production (1990–2014–OSIO)



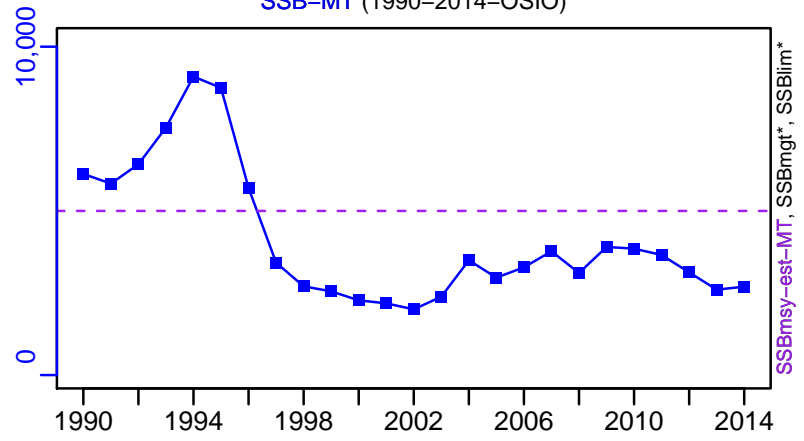
◆ Start Year ◆ End Year \* No Data

# Red mullet Black Sea [RMULLMEDGSA29]

TB\*



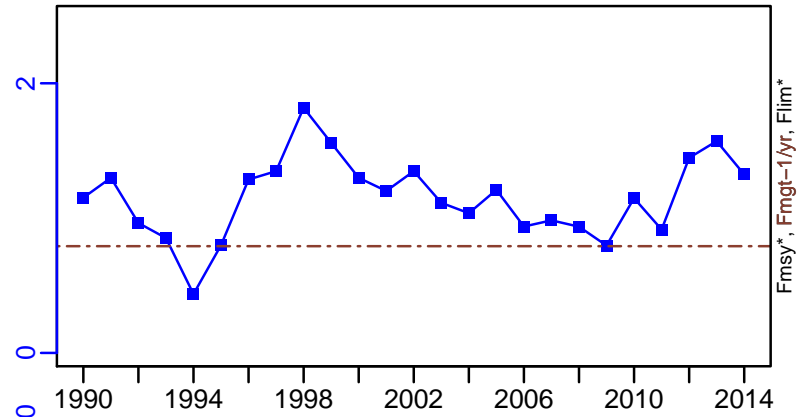
SSB-MT (1990–2014–OSIO)



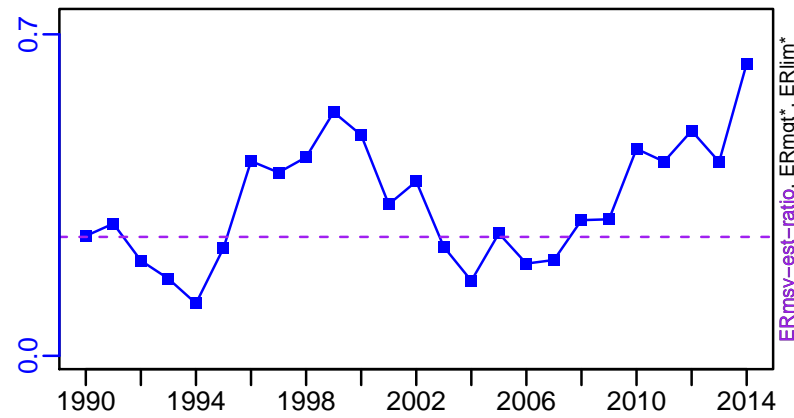
TN \*



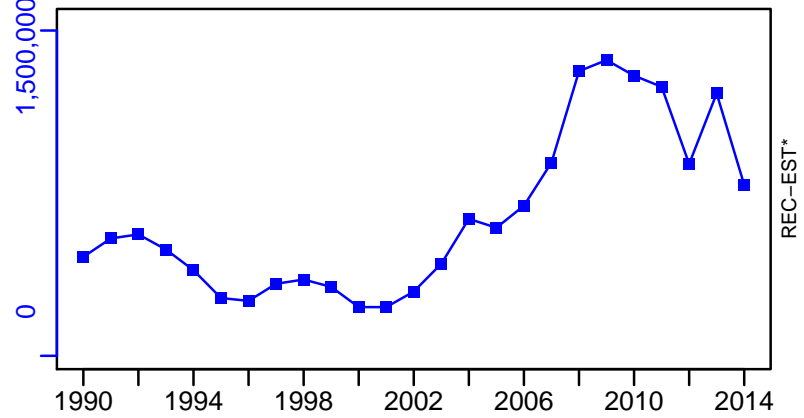
F-1/yr (1990–2014–OSIO)



ER-calc-ratio (1990–2014–OSIO)

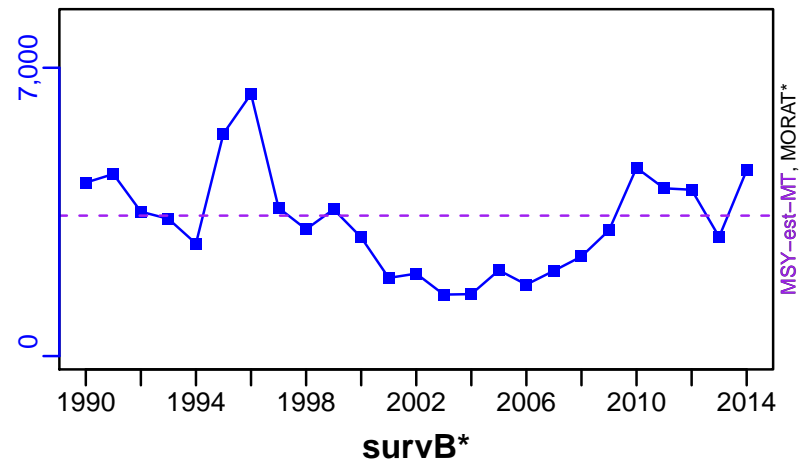


R-E00 (1990–2014–OSIO)



# Red mullet Black Sea [RMULLMEDGSA29]

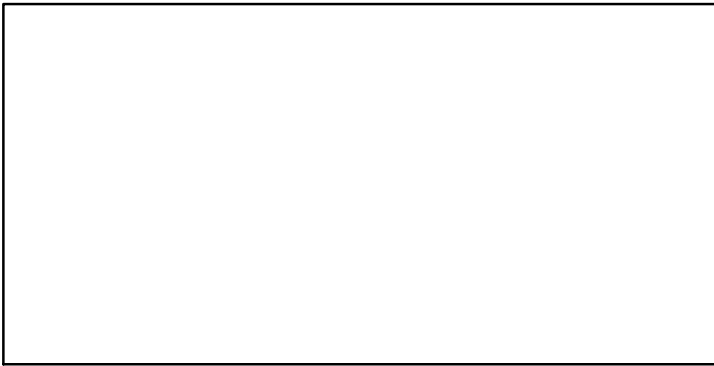
TC-MT, TL\*, RecC\* (1990–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



survB\*



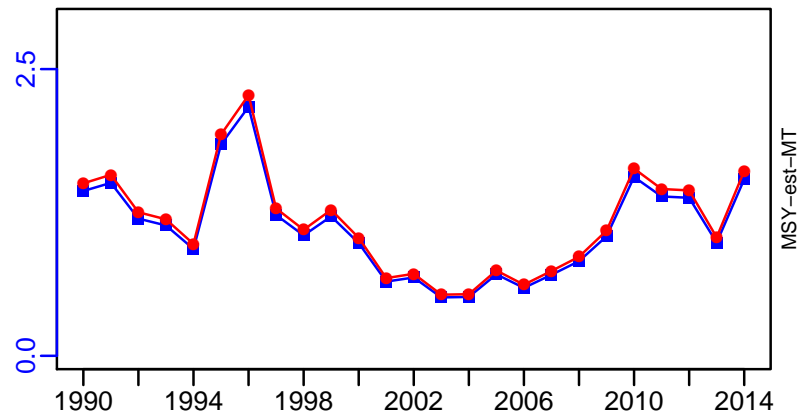
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1990–2014–OSIO)



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

## Red mullet Balearic Island [RMULLMEDGSA5]

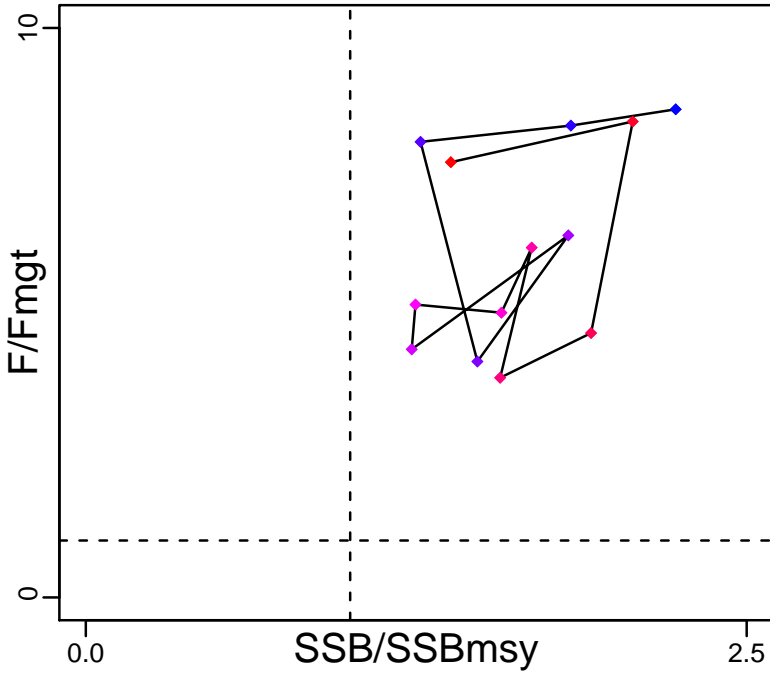
Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA5-2000-2012-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2012	21
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.475
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.14
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	24
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

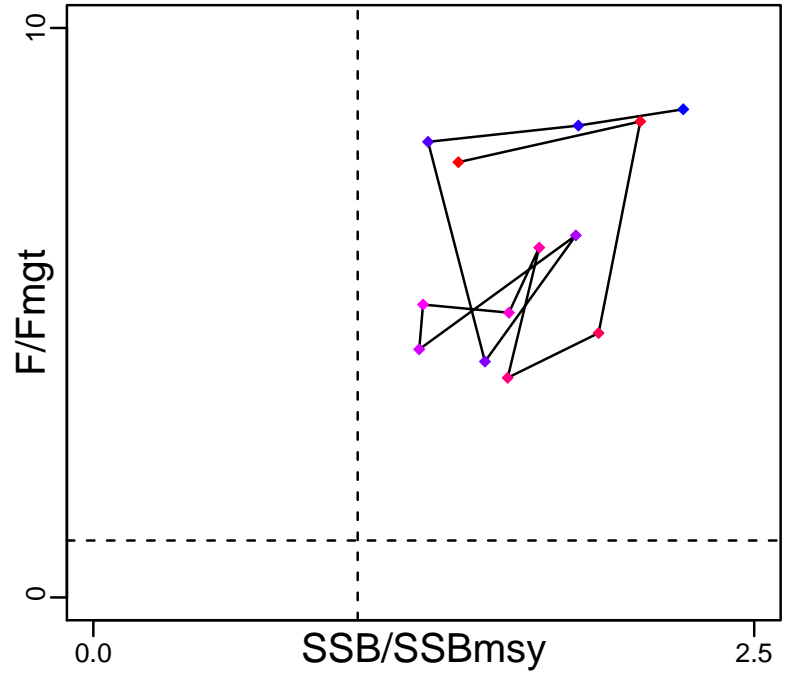
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	29	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	1,050,000	-	-
<b>F</b>	F-1/yr	2012	1.07	-	-
<b>ER</b>	ER-calc-ratio	2012	0.231	-	-
<b>TC</b>	TC-MT	2012	16		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	1.381		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.486		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	7.643		
<b>ER/ERmgt</b>	-	-	-		

# Red mullet Balearic Island [RMULLMEDGSA5]

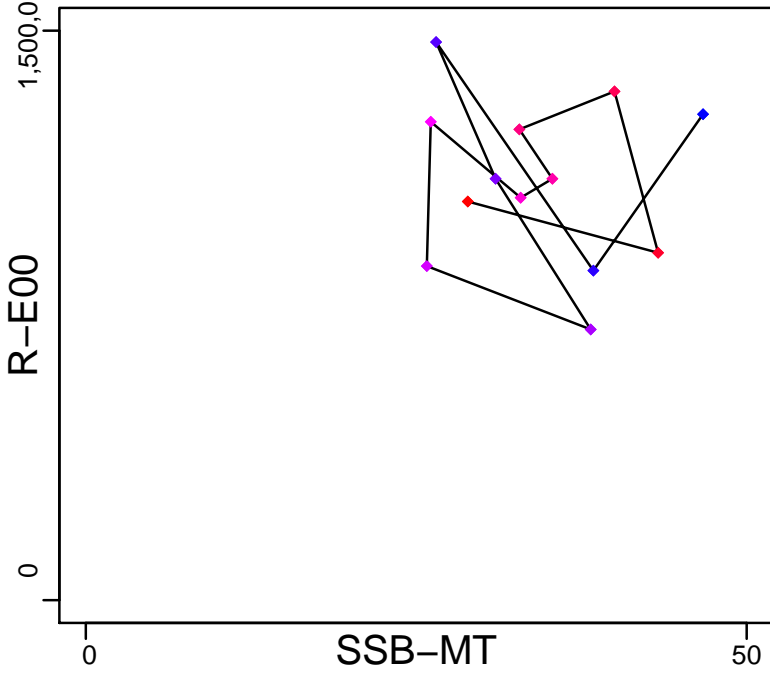
Kobe MSYpref (2000–2012–OSIO)



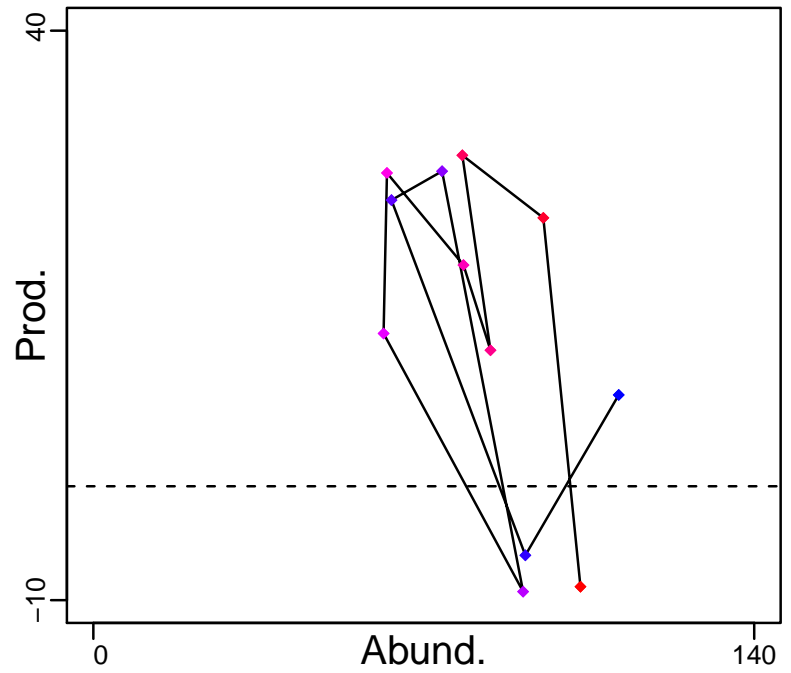
Kobe MGTpref (2000–2012–OSIO)



Spawner Recruit (2000–2012–OSIO)



Production (2000–2012–OSIO)



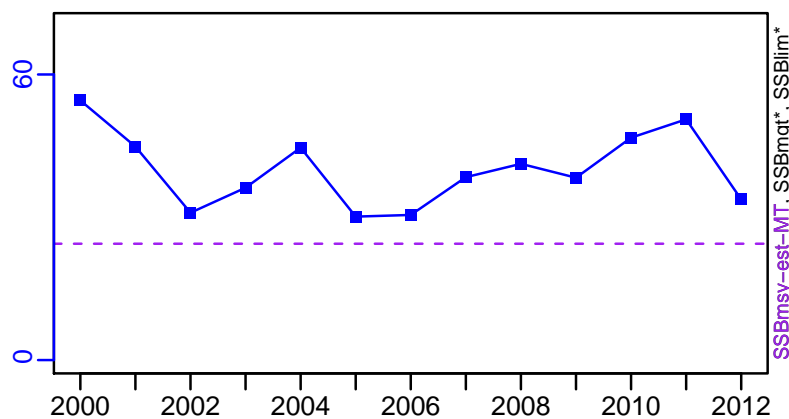
◆ Start Year ◆ End Year \* No Data

# Red mullet Balearic Island [RMULLMEDGSA5]

TB\*



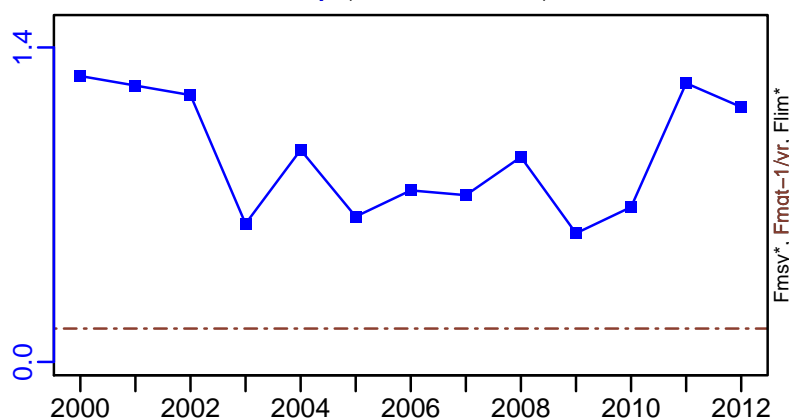
SSB-MT (2000–2012–OSIO)



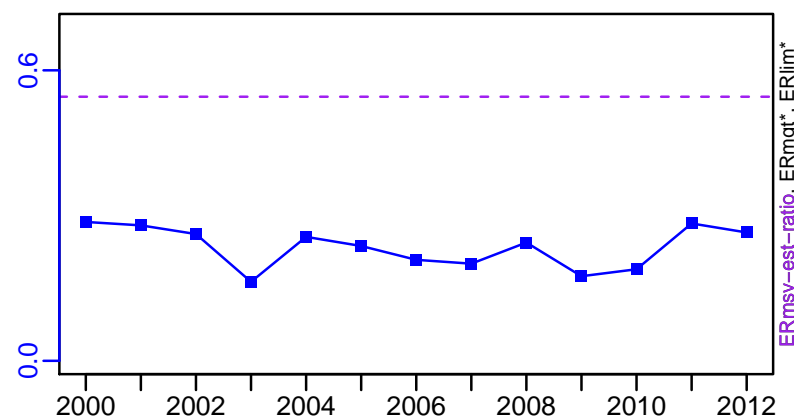
TN \*



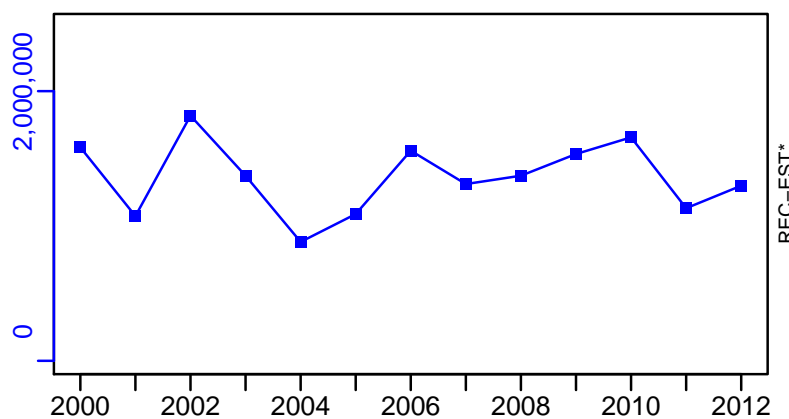
F-1/yr (2000–2012–OSIO)



ER-calc-ratio (2000–2012–OSIO)

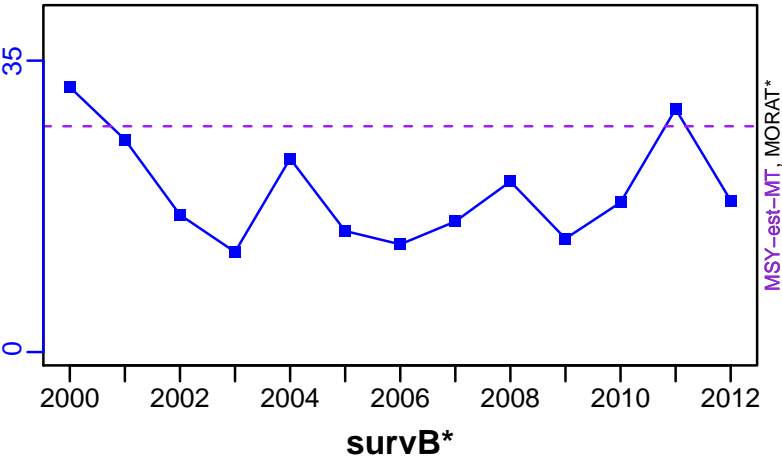


R-E00 (2000–2012–OSIO)



# Red mullet Balearic Island [RMULLMEDGSA5]

TC-MT, TL\*, RecC\* (2000–2012–OSIO)



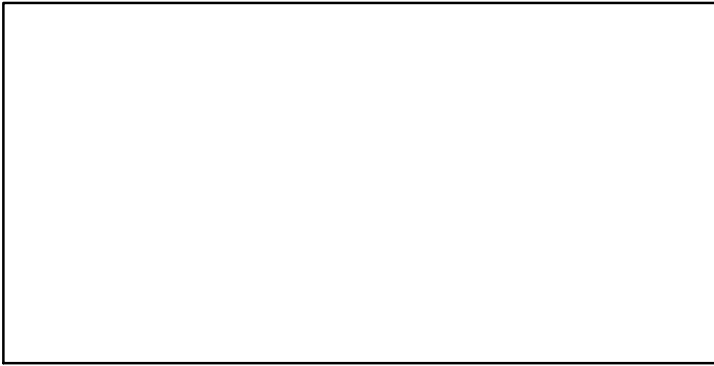
TAC\*, Cpair\*, Cadv\*



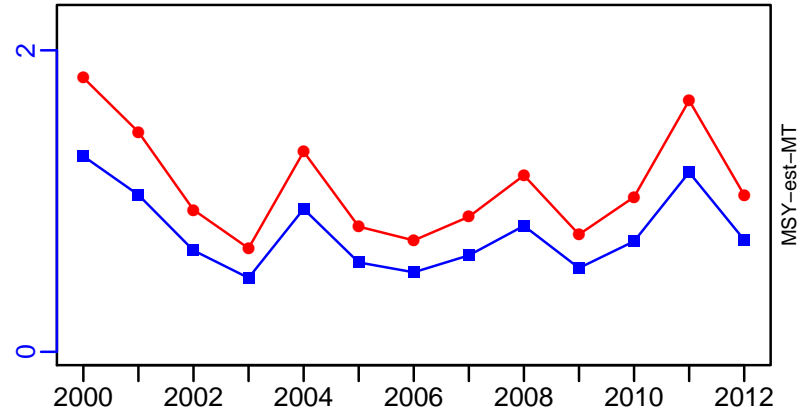
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2000–2012–OSIO)



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

## Red mullet Northern Spain [RMULLMEDGSA6]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA6-2002-2013-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

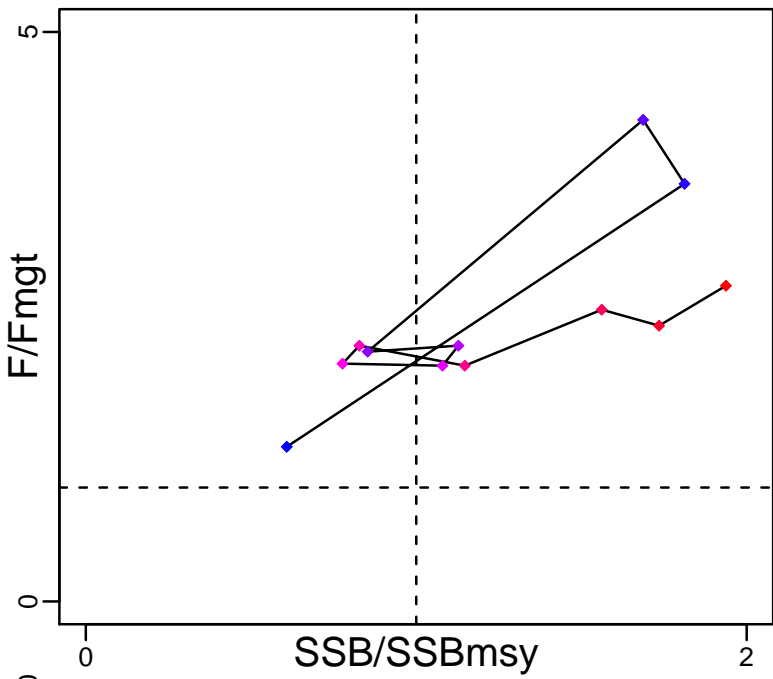
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	1038
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.511
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.57
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	1339
<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>	SSB-MT	2013	2010	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	86,300,000	-	-
<b>F</b>	F-1/yr	2013	1.58	-	-
<b>ER</b>	ER-calc-ratio	2013	0.246	-	-
<b>TC</b>	TC-MT	2013	1250		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	1.937		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	0.482		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	2.772		
<b>ER/ERmgt</b>	-	-	-		

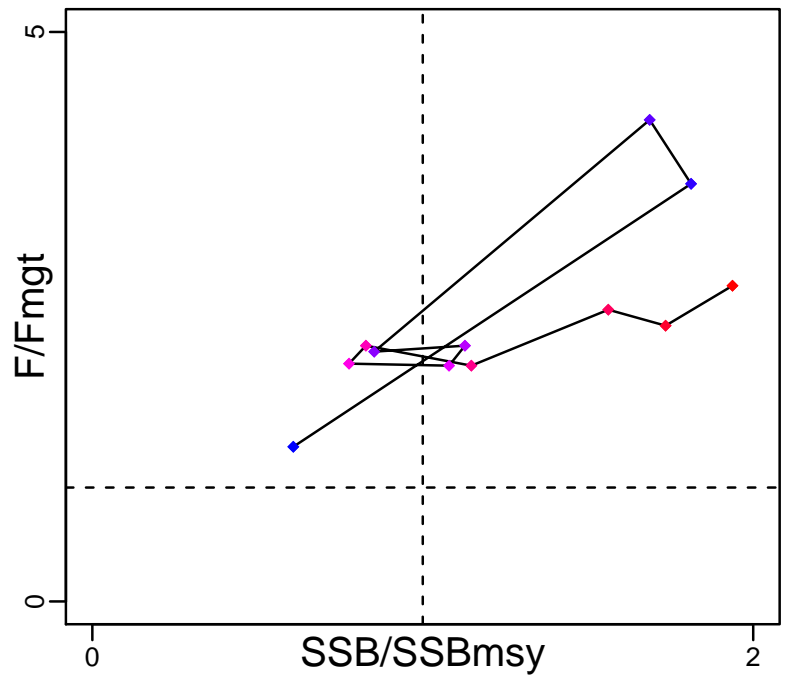


# Red mullet Northern Spain [RMULLMEDGSA6]

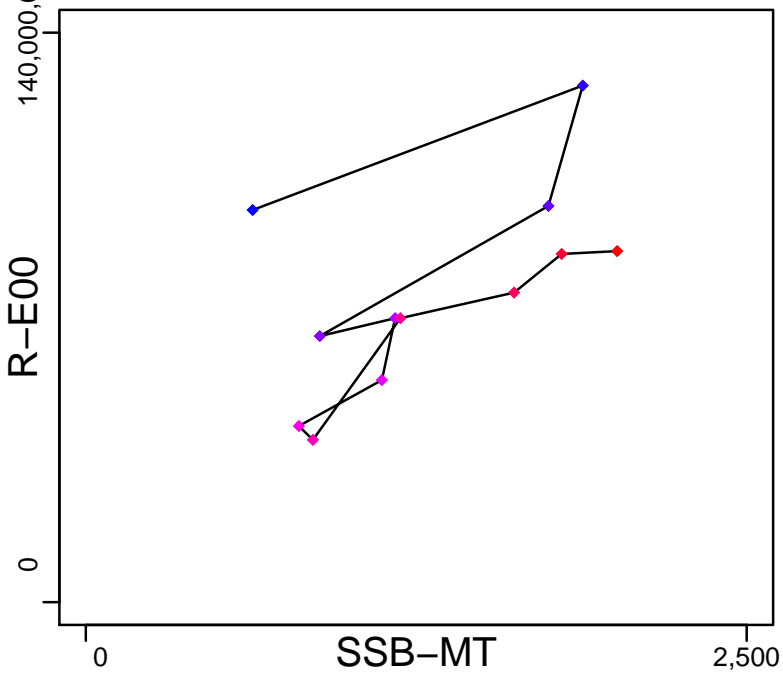
Kobe MSYpref (2002–2013–OSIO)



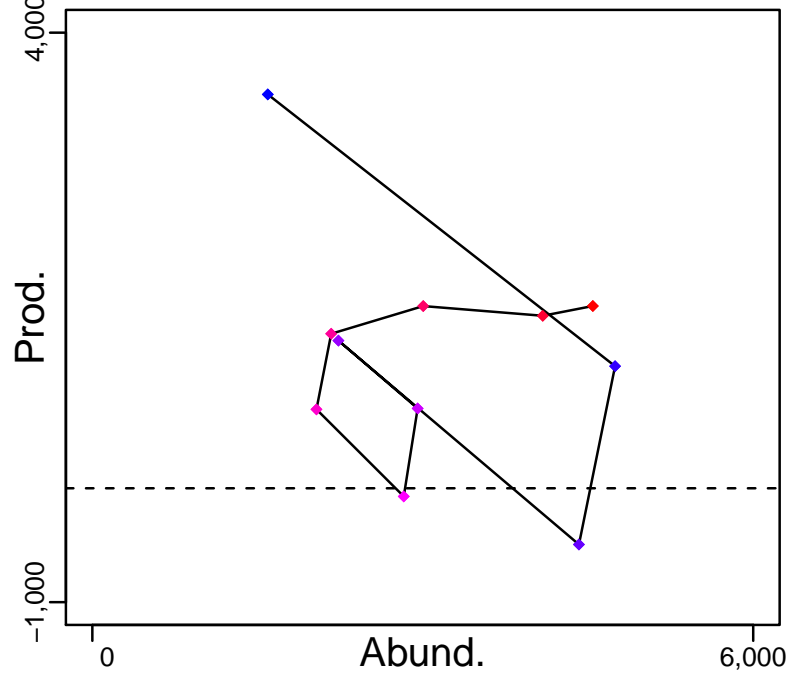
Kobe MGTpref (2002–2013–OSIO)



Spawner Recruit (2002–2013–OSIO)



Production (2002–2013–OSIO)



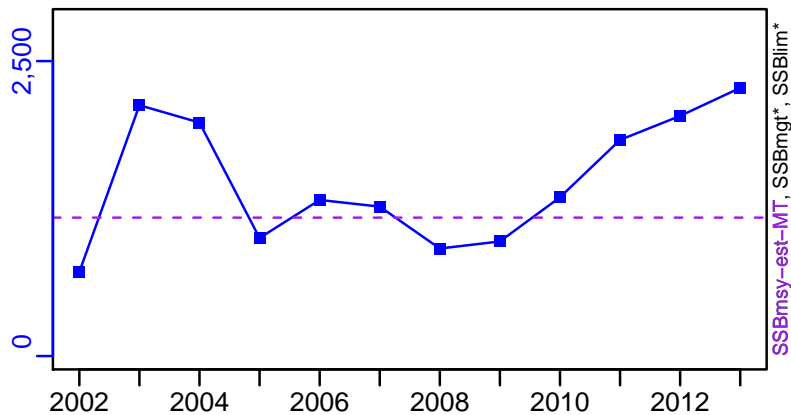
◆ Start Year ◆ End Year \* No Data

# Red mullet Northern Spain [RMULLMEDGSA6]

TB\*



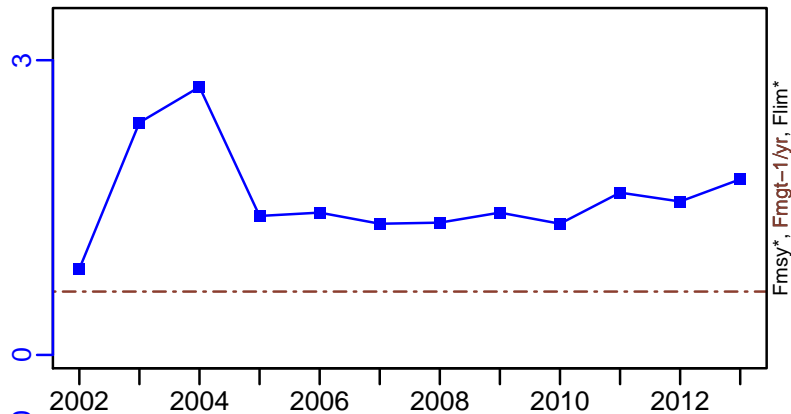
SSB-MT (2002-2013-OSIO)



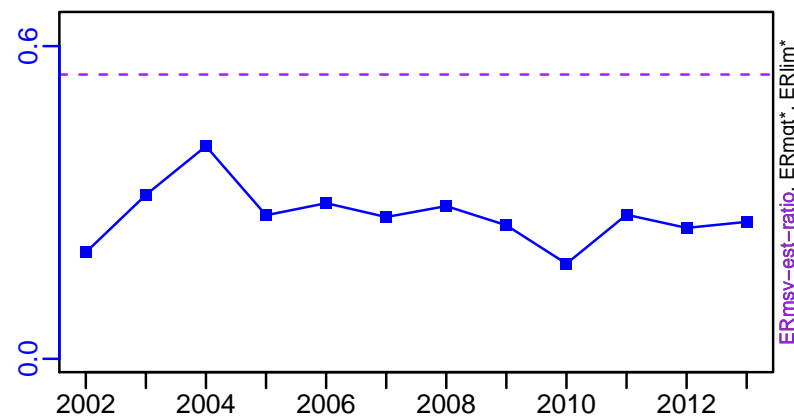
TN \*



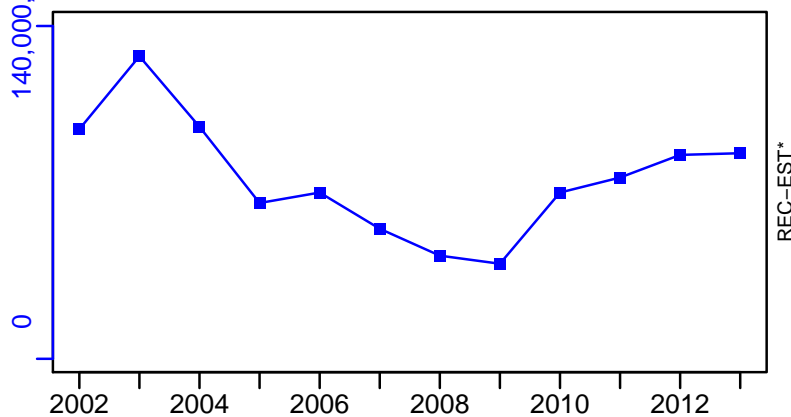
F-1/yr (2002-2013-OSIO)



ER-calc-ratio (2002-2013-OSIO)

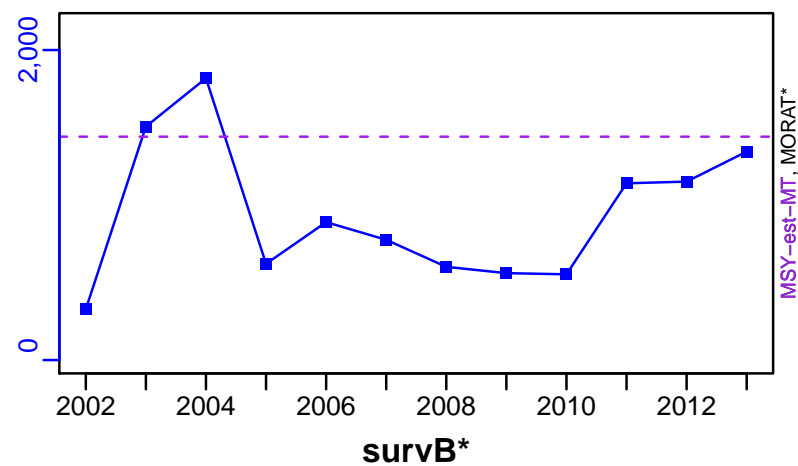


R-E00 (2002-2013-OSIO)



# Red mullet Northern Spain [RMULLMEDGSA6]

TC-MT, TL\*, RecC\* (2002–2013–OSIO)



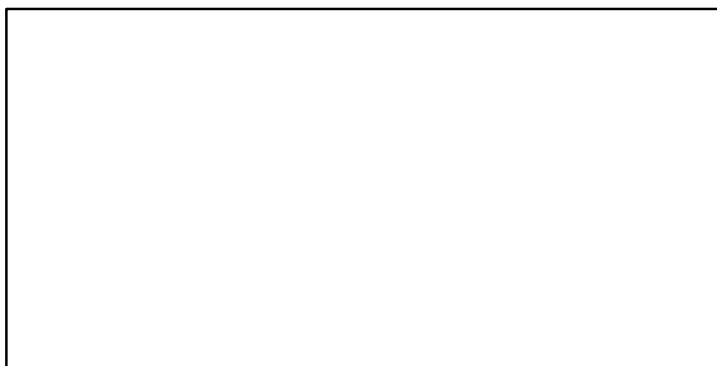
TAC\*, Cpair\*, Cadv\*



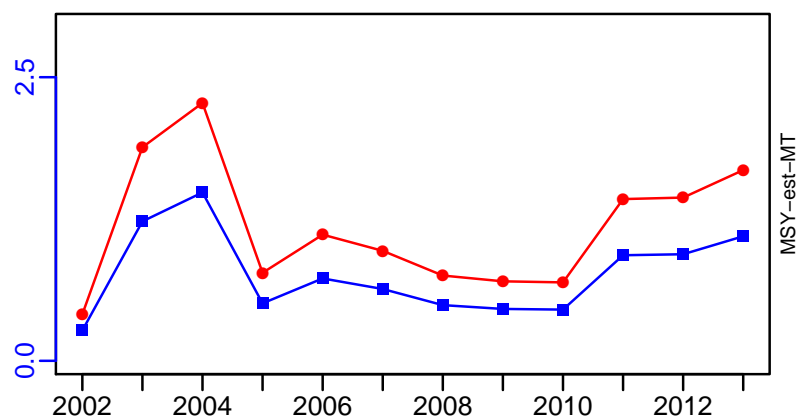
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002–2013–OSIO)



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

## Red mullet Gulf of Lions [RMULLMEDGSA7]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA7-2004-2013-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

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>	Fmgt-1/yr	2013	0.14
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2013	1240	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	53,100,000	-	-
<b>F</b>	F-1/yr	2013	0.435	-	-
<b>ER</b>	ER-calc-ratio	2013	0.094	-	-
<b>TC</b>	TC-MT	2013	297		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2013	3.107		
<b>ER/ERmgt</b>	-	-	-		

Red mullet Gulf of Lions [RMULLMEDGSA7]

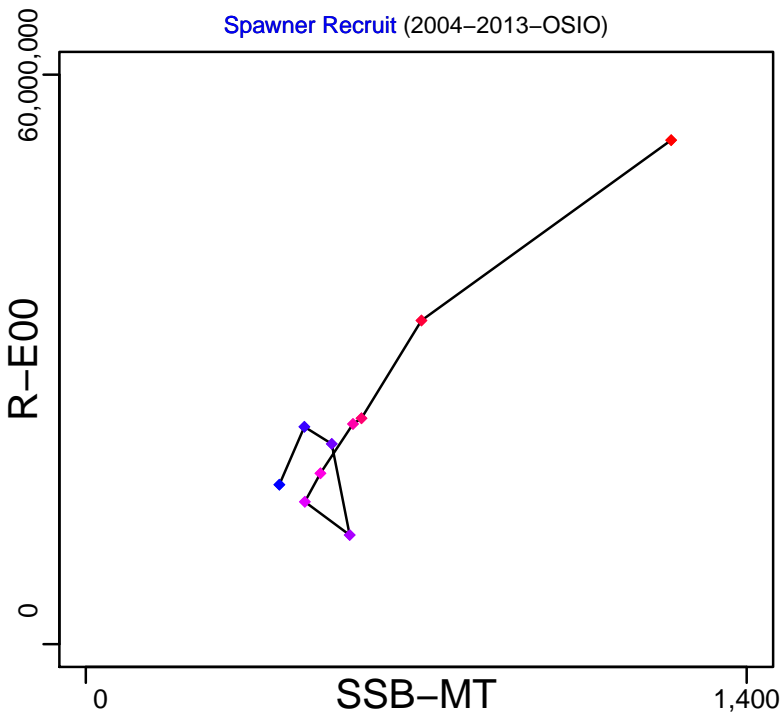
Kobe MSY\*



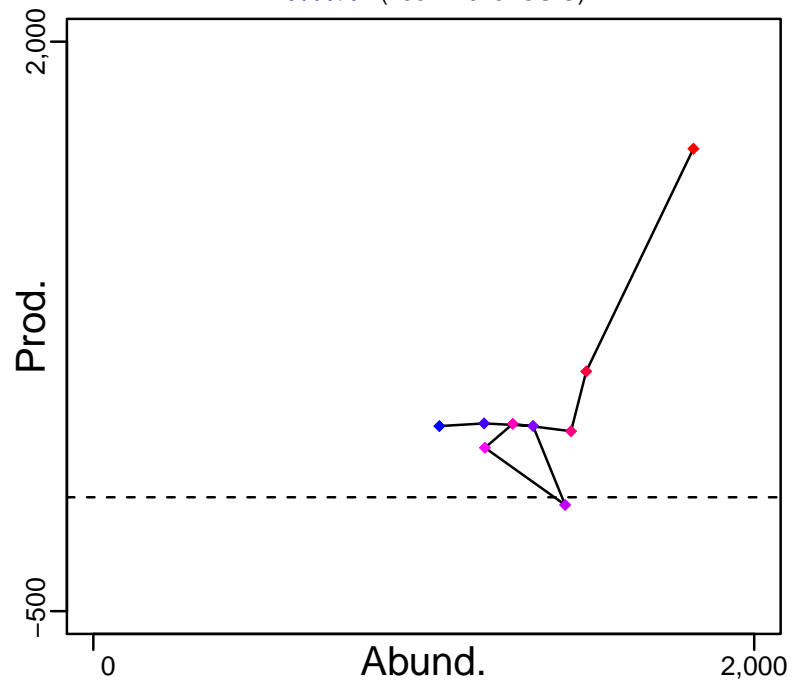
Kobe MGT\*



Spawner Recruit (2004–2013–OSIO)



Production (2004–2013–OSIO)



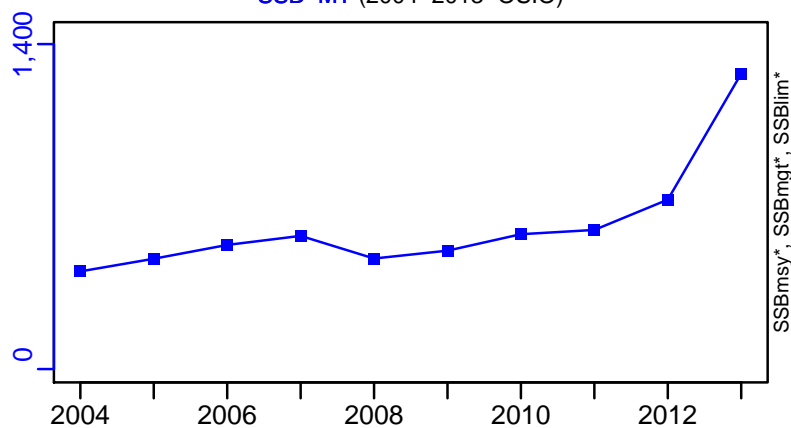
◆ Start Year ◆ End Year \* No Data

# Red mullet Gulf of Lions [RMULLMEDGSA7]

TB\*



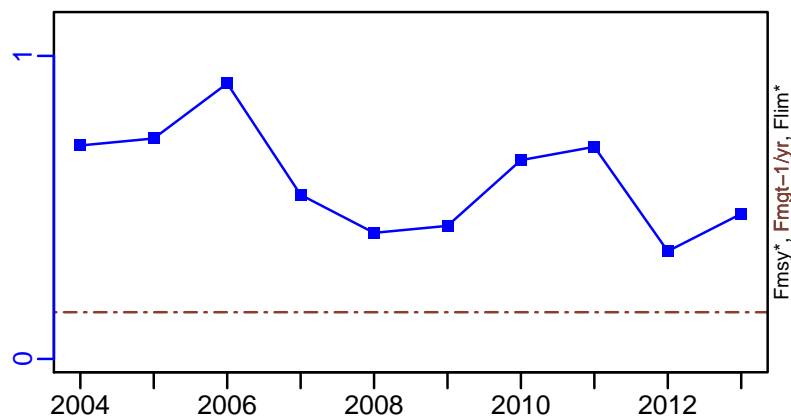
SSB-MT (2004–2013–OSIO)



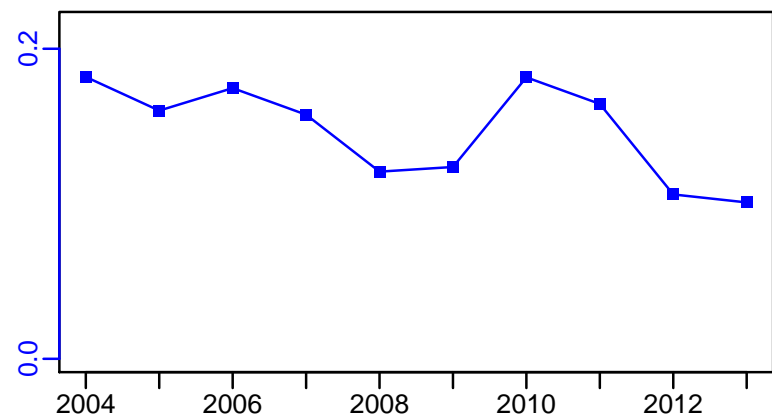
TN \*



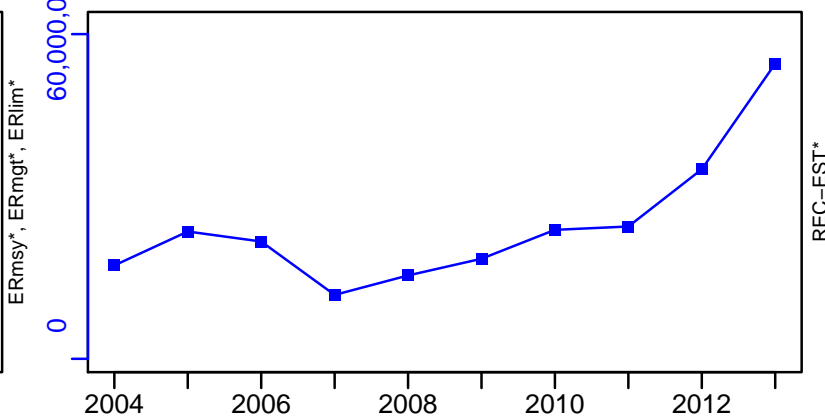
F-1/yr (2004–2013–OSIO)



ER-calc-ratio (2004–2013–OSIO)

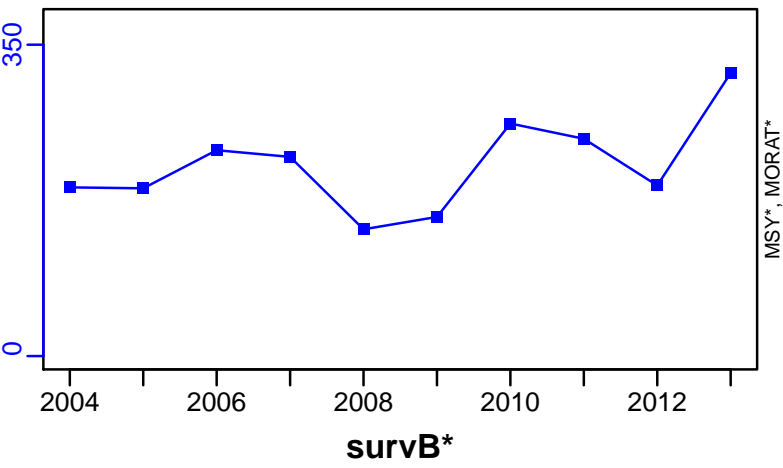


R-E00 (2004–2013–OSIO)

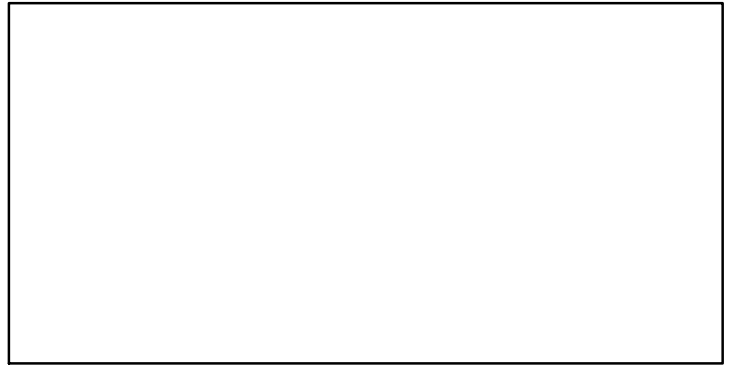


Red mullet Gulf of Lions [RMULLMEDGSA7]

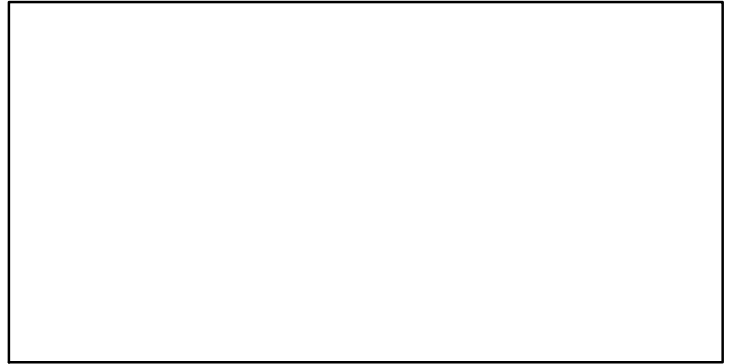
TC-MT, TL\*, RecC\* (2004–2013–OSIO)



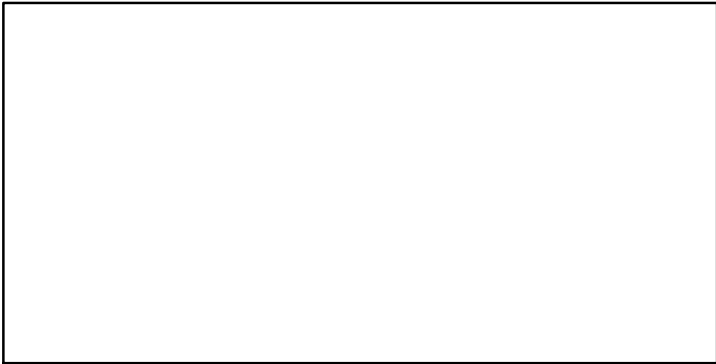
TAC\*, Cpair\*, Cadv\*



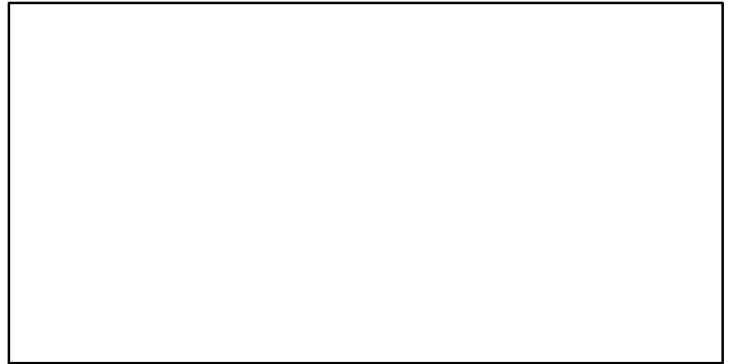
CPUE\*



EFFORT\*



CdivMSY\*



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

## Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

Metadata	
<b>Scientific Name</b>	Mullus barbatus
<b>Current Assess ID</b>	STECF-RMULLMEDGSA9-2006-2013-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013

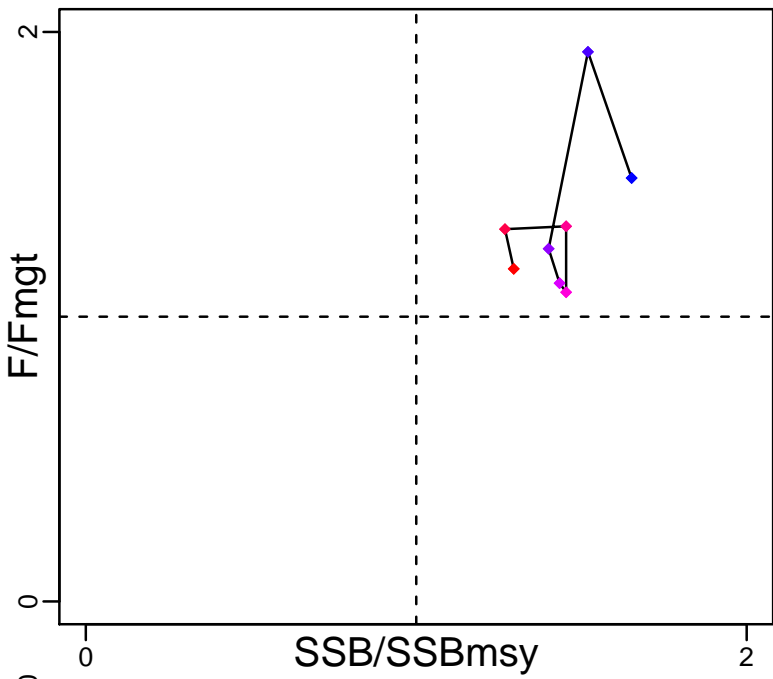
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	1514
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.228
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2013	0.596
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	818
<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>	SSB-MT	2013	1960	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	$1.63 \times 10^8$	-	-
<b>F</b>	F-1/yr	2013	0.696	-	-
<b>ER</b>	ER-calc-ratio	2013	0.158	-	-
<b>TC</b>	TC-MT	2013	736		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	1.295		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	0.694		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	1.168		
<b>ER/ERmgt</b>	-	-	-		

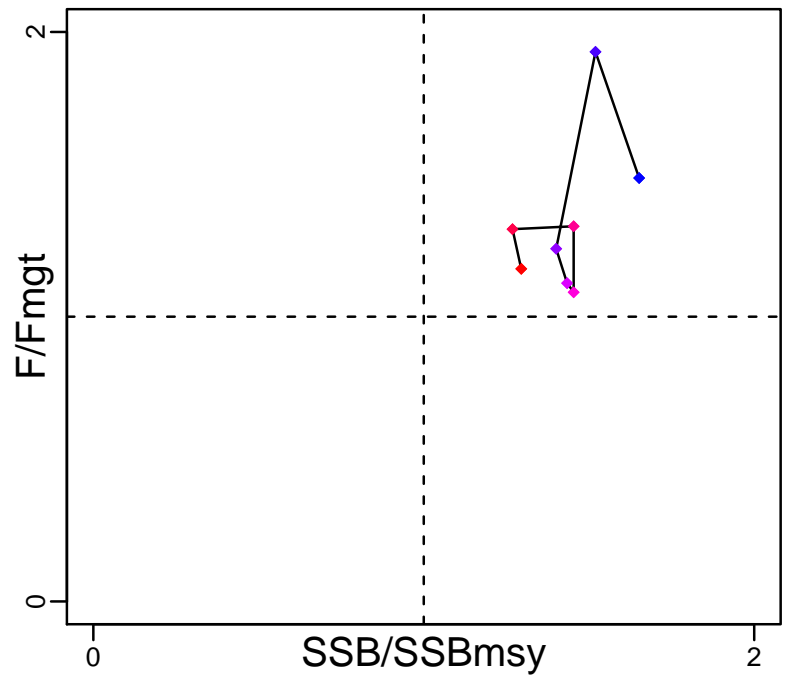


# Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

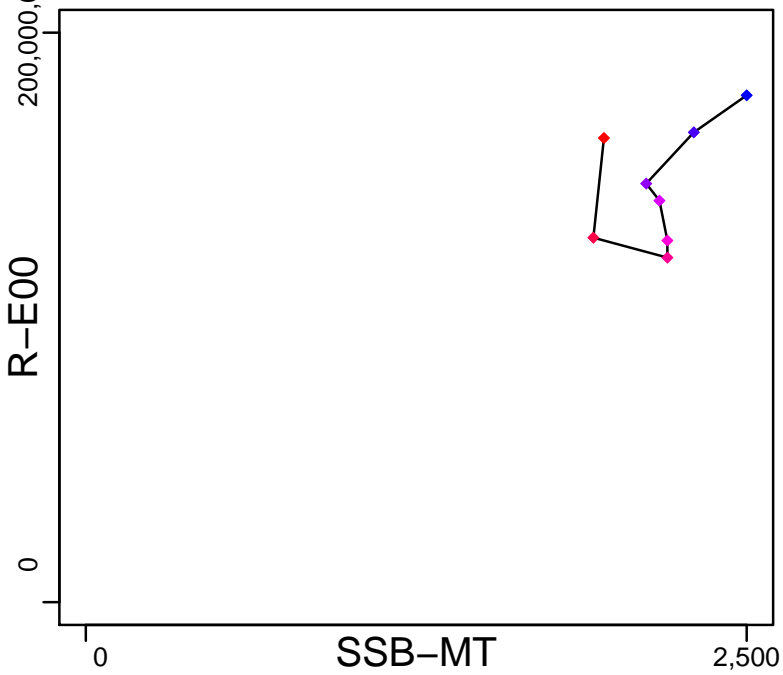
Kobe MSYpref (2006–2013–OSIO)



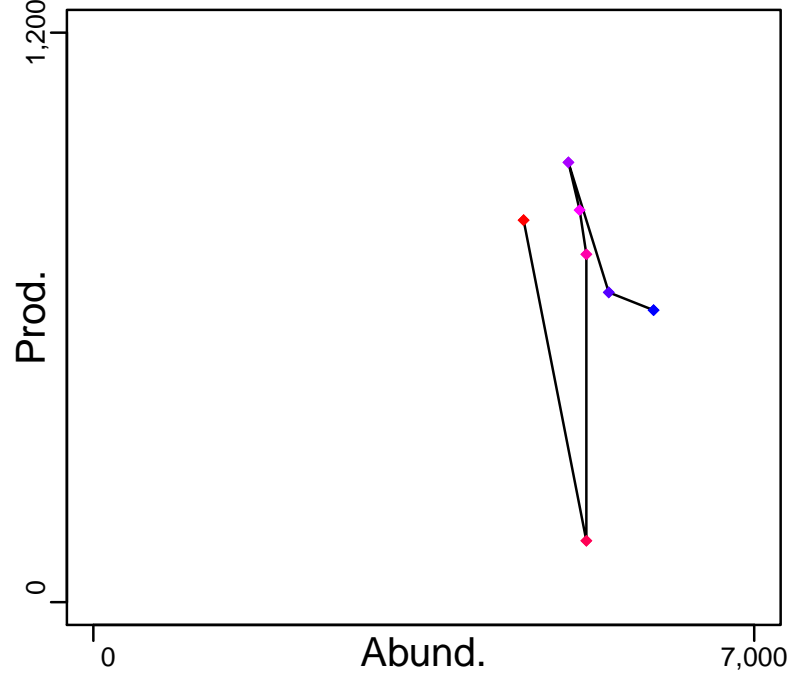
Kobe MGTpref (2006–2013–OSIO)



Spawner Recruit (2006–2013–OSIO)



Production (2006–2013–OSIO)



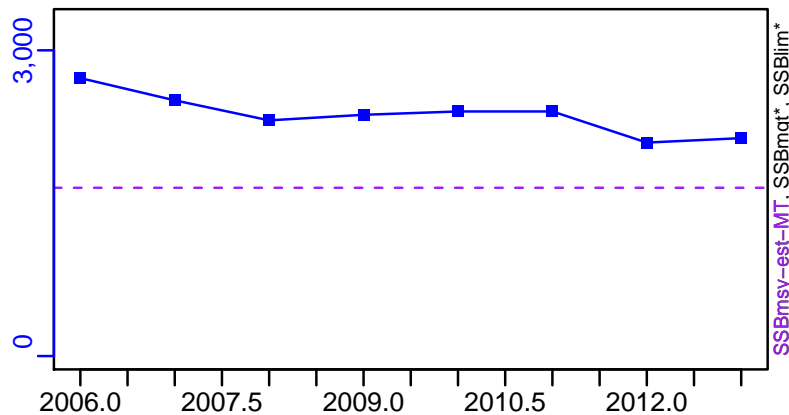
◆ Start Year ◆ End Year \* No Data

# Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

TB\*



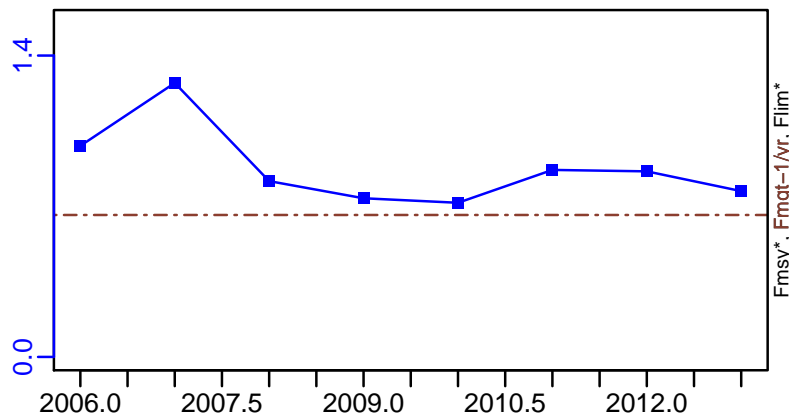
SSB-MT (2006–2013–OSIO)



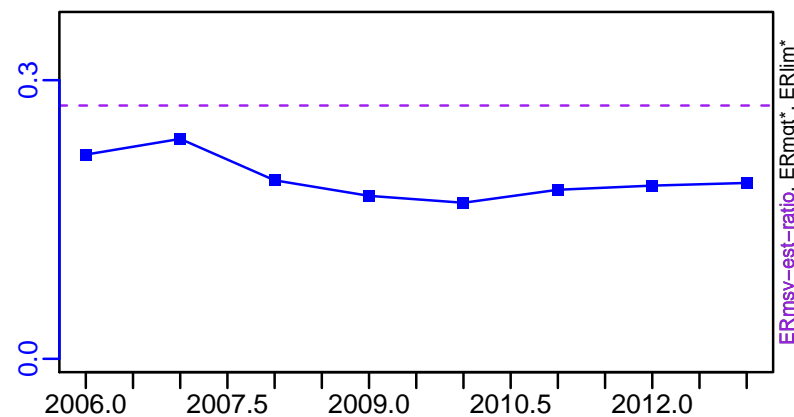
TN \*



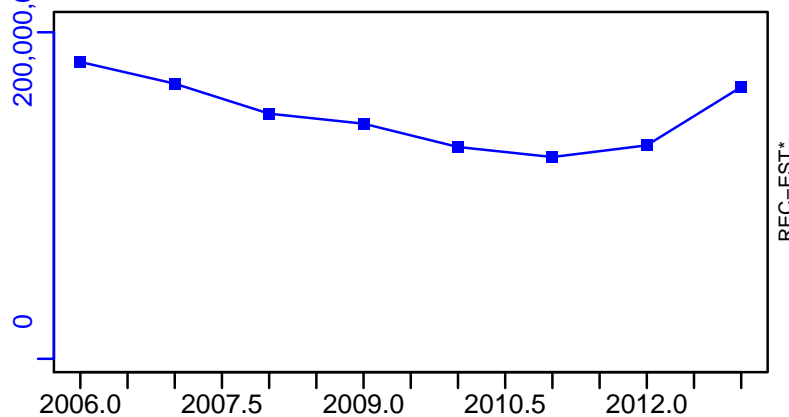
F-1/yr (2006–2013–OSIO)



ER-calc-ratio (2006–2013–OSIO)



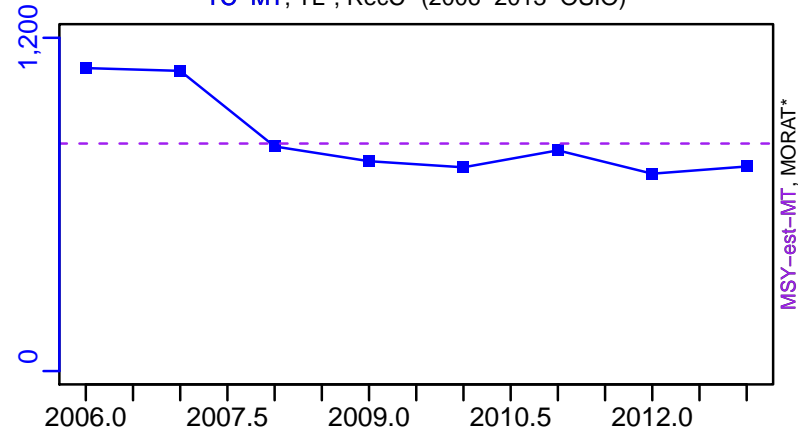
R-E00 (2006–2013–OSIO)



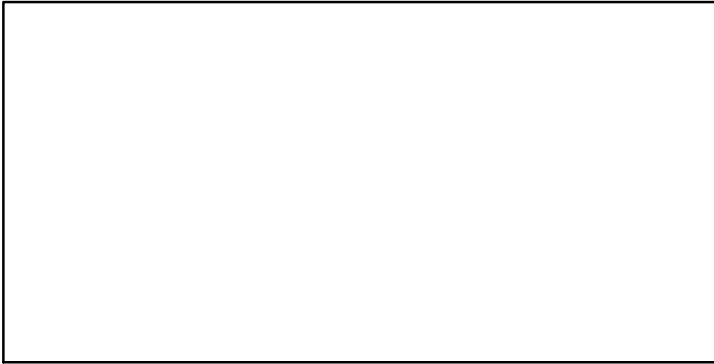
# Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

TC-MT, TL\*, RecC\* (2006–2013–OSIO)

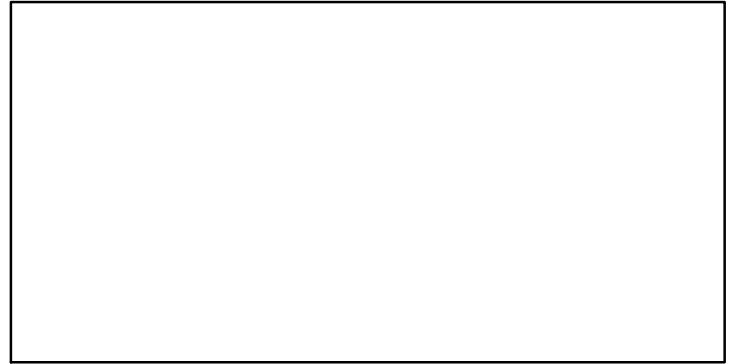
TAC\*, Cpair\*, Cadv\*



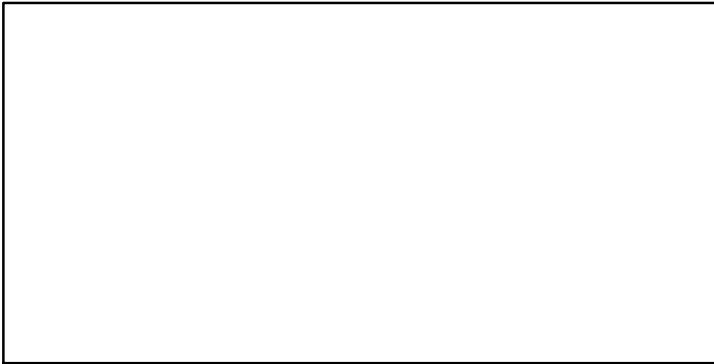
survB\*



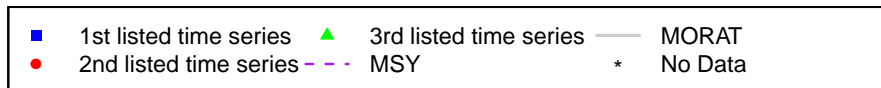
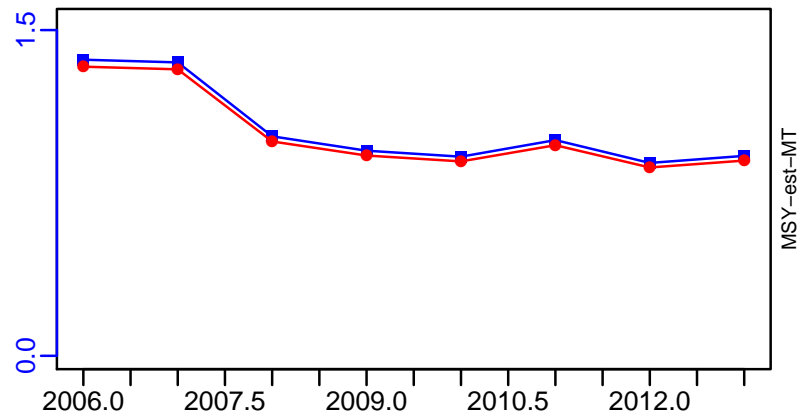
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2013–OSIO)



## Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

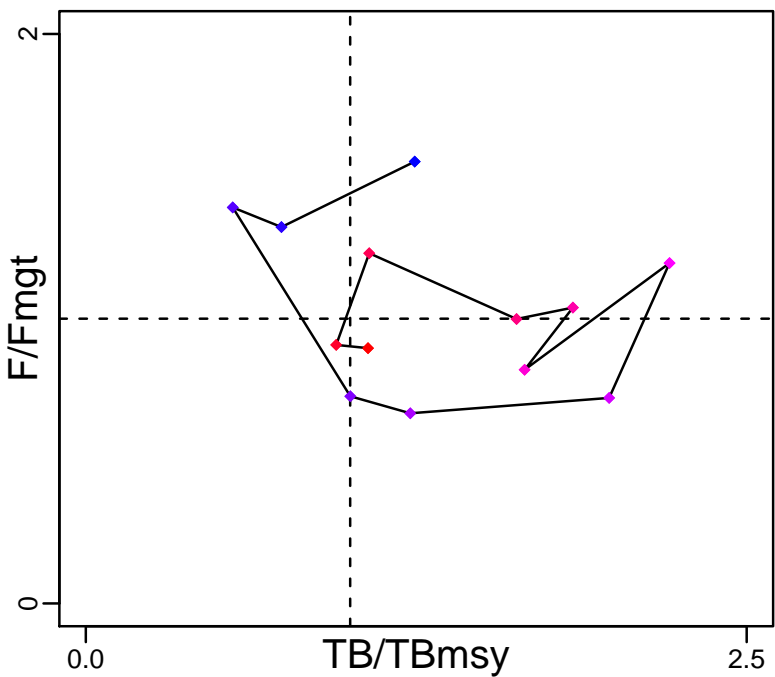
Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-RSHRMPMEDGSA1-2003-2015-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	657
<b>SSBmsy</b>	SSBmsy-est-MT	2012	233
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.267
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.87
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	175
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

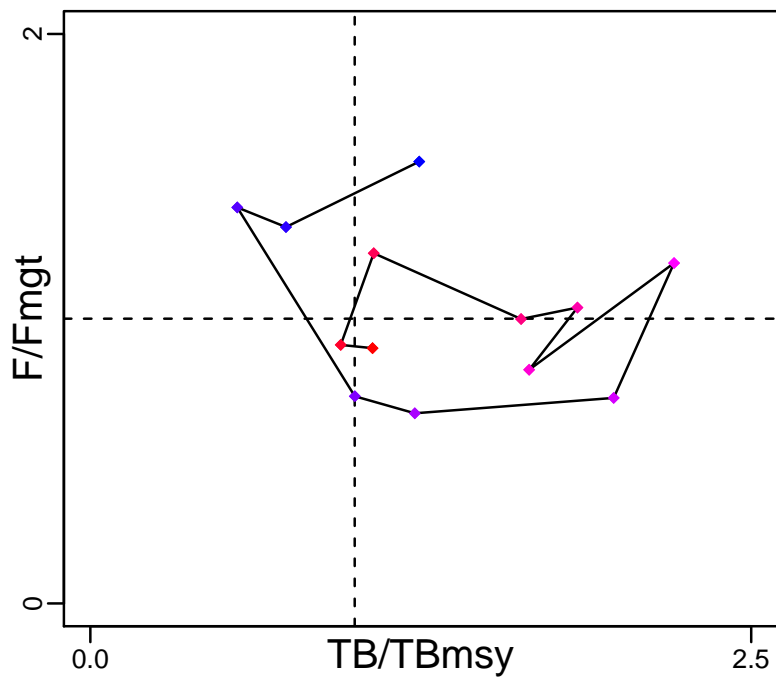
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	701	-	-
<b>SSB</b>	SSB-MT	2015	127	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$2.9 \times 10^8$	-	-
<b>F</b>	F-1/yr	2015	0.78	-	-
<b>ER</b>	ER-calc-ratio	2015	0.163	-	-
<b>TC</b>	TC-MT	2015	114		
<b>TL</b>	TL-MT	2015	114		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	1.068		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	1.782		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.609		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.897		
<b>ER/ERmgt</b>	-	-	-		

# Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

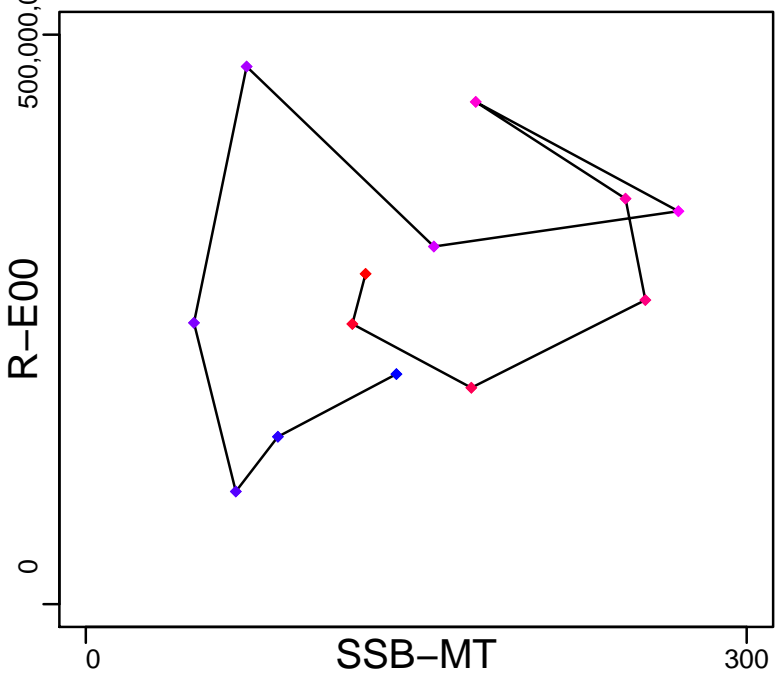
Kobe MSYpref (2003–2015–OSIO)



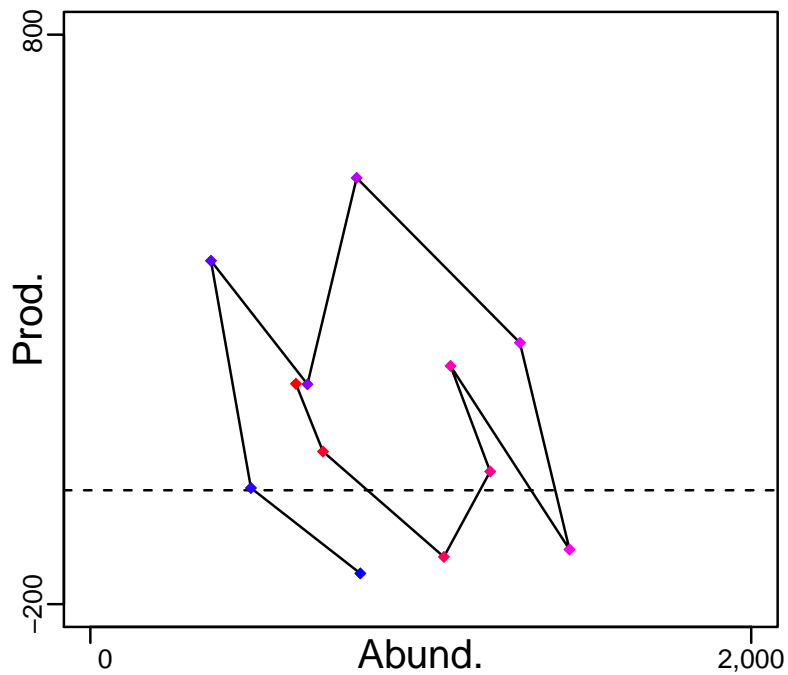
Kobe MGTpref (2003–2015–OSIO)



Spawner Recruit (2003–2015–OSIO)



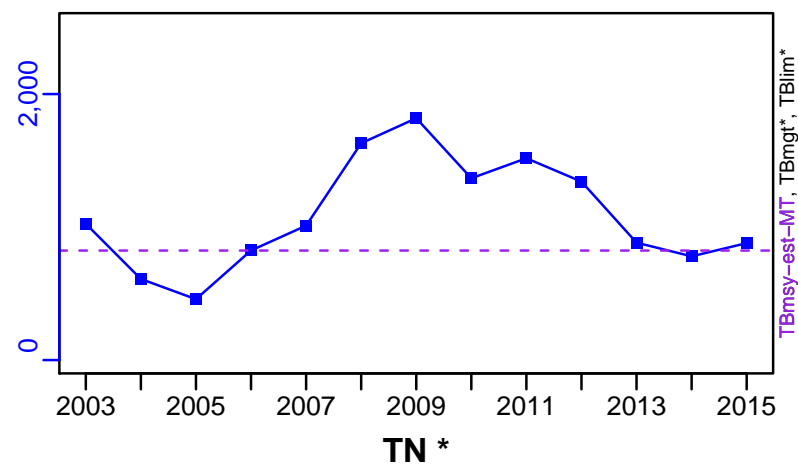
Production (2003–2015–OSIO)



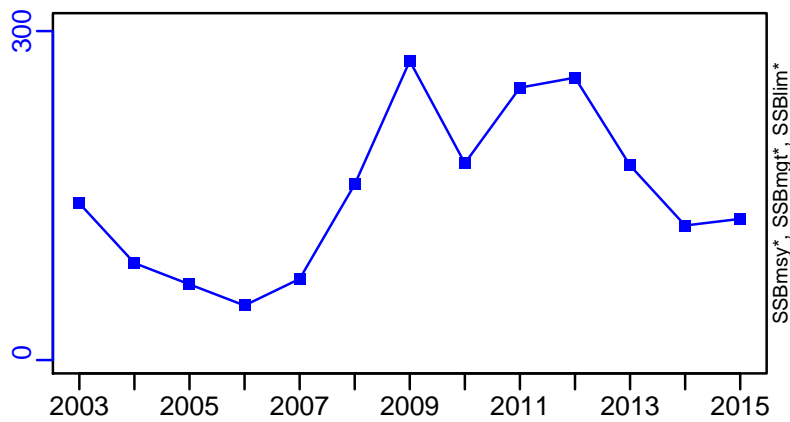
◆ Start Year ◆ End Year \* No Data

# Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TB-MT (2003–2015–OSIO)



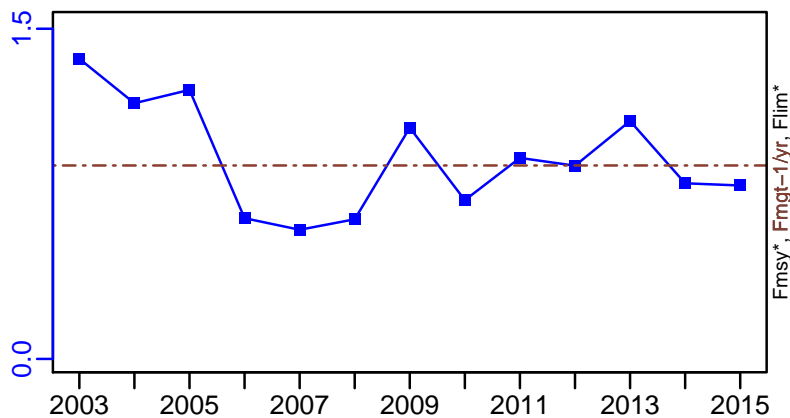
SSB-MT (2003–2015–OSIO)



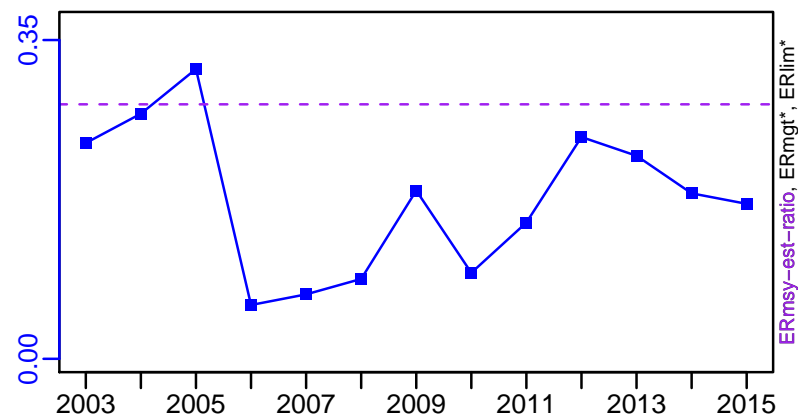
TN \*



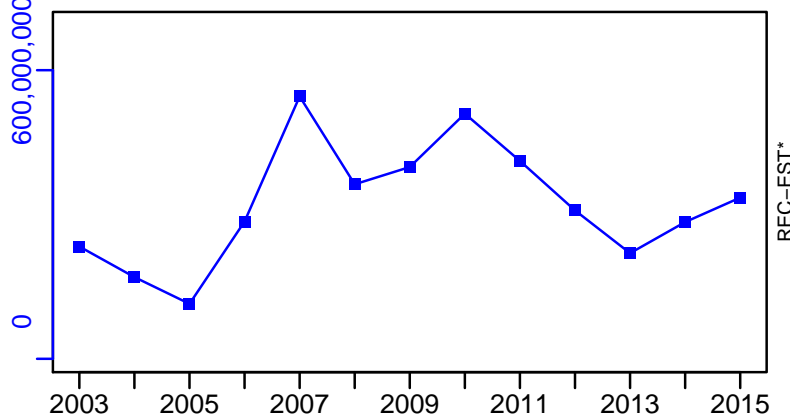
F-1/yr (2003–2015–OSIO)



ER-calc-ratio (2003–2015–OSIO)



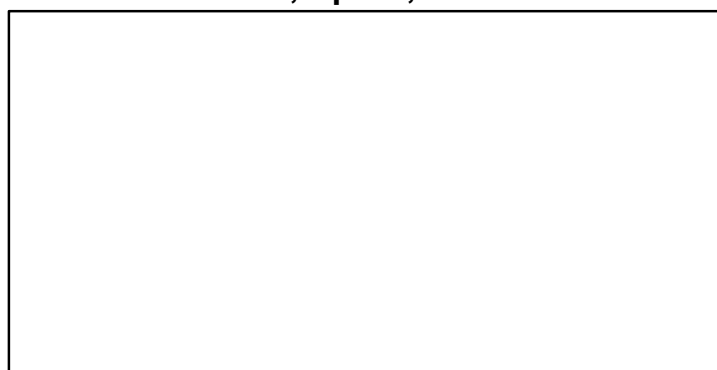
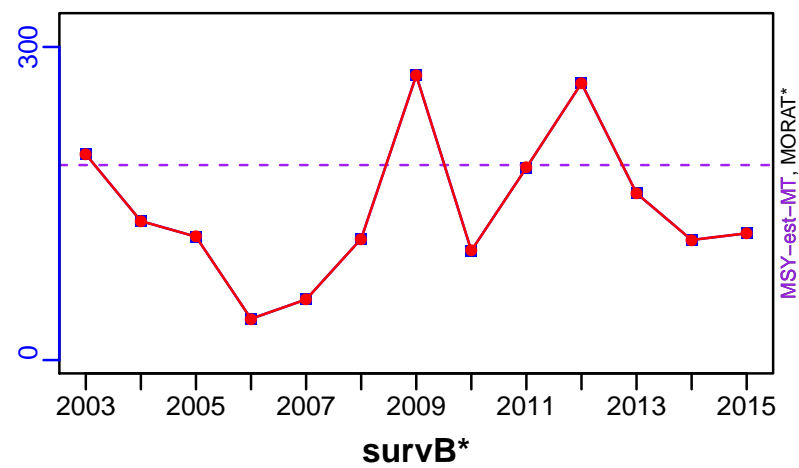
R-E00 (2003–2015–OSIO)



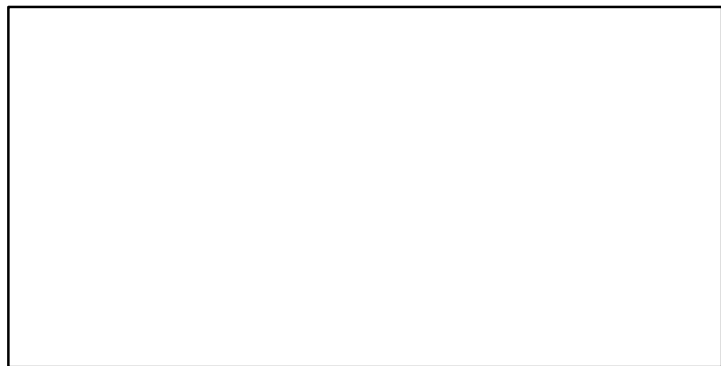
# Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TC-MT, TL-MT, RecC\* (2003–2015–OSIO)

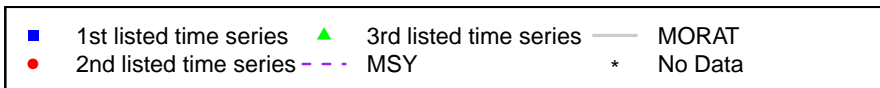
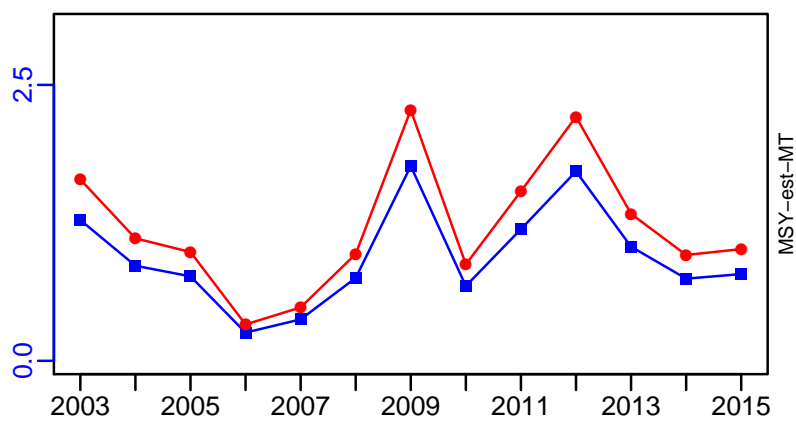
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003–2015–OSIO)



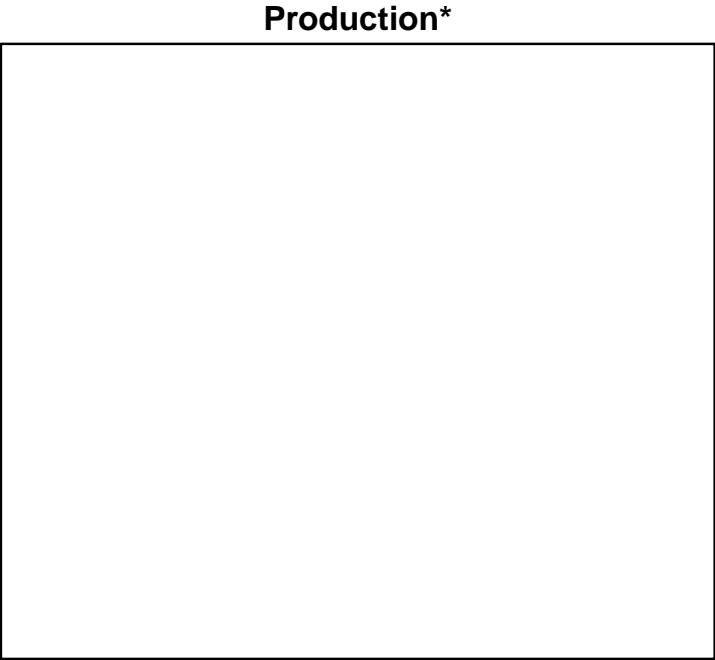
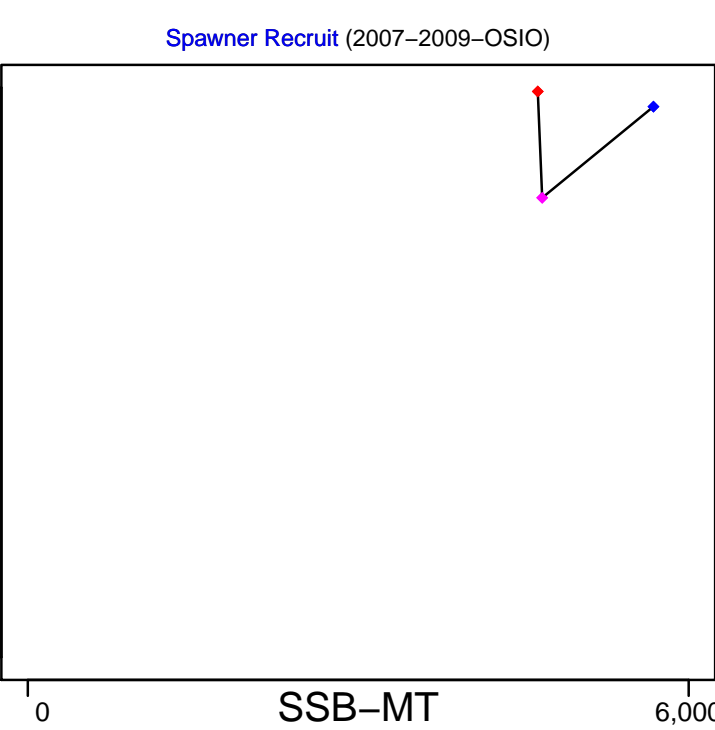
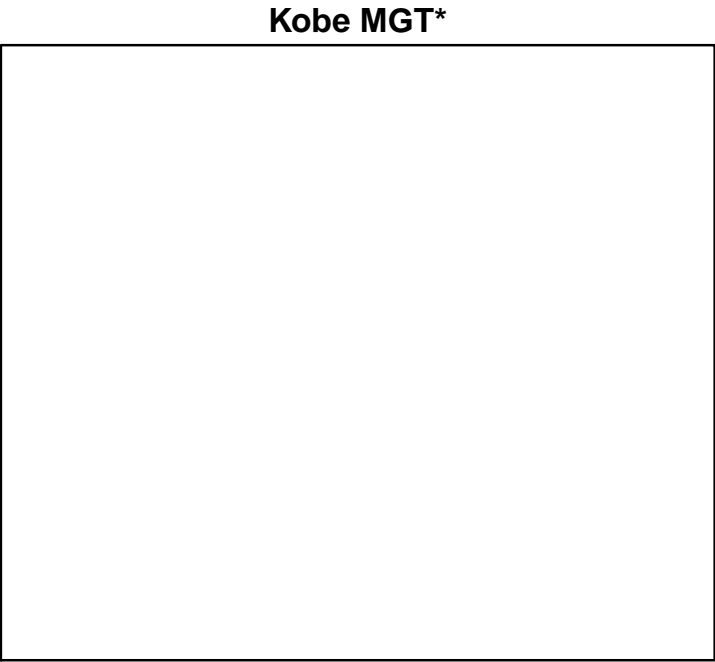
## Deep water rose shrimp Geographical Sub-Areas 12-16 [RSHRMPMEDGSA12-16]

Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-RSHRMPMEDGSA12-16-2007-2009-OSIO
<b>Area</b>	Geographical Sub-Areas 12-16
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2009

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-extr-1/yr	2011	1.21
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2009	0.9
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	1.05
<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-MT	2009	4630	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2009	$2.98 \times 10^9$	-	-
<b>F</b>	F-1/yr	2011	1.65	-	-
<b>ER</b>	ER-calc-ratio	2009	0.455	-	-
<b>TC</b>	TC-MT	2009	8810		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2011	1.4		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2009	1.533		
<b>ER/ERmgt</b>	-	-	-		





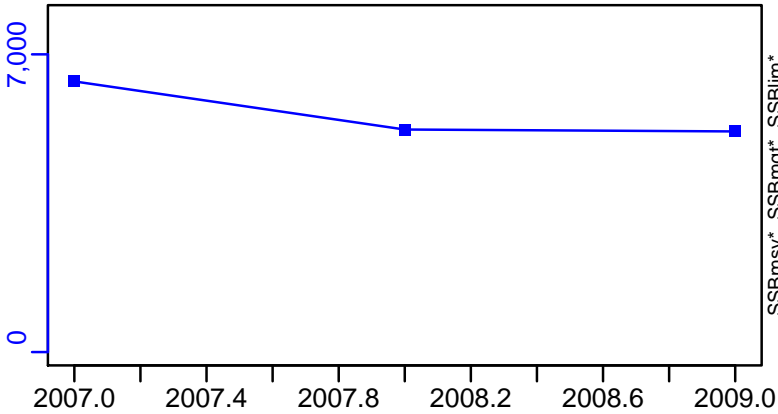
◆ Start Year ◆ End Year \* No Data

Deep water rose shrimp Geographical Sub-Areas 12–16 [RSHRMPMEDGSA12–16]

TB\*



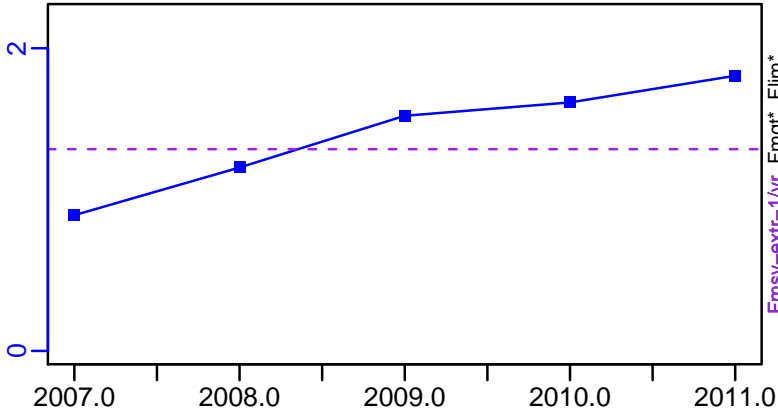
SSB-MT (2007–2009–OSIO)



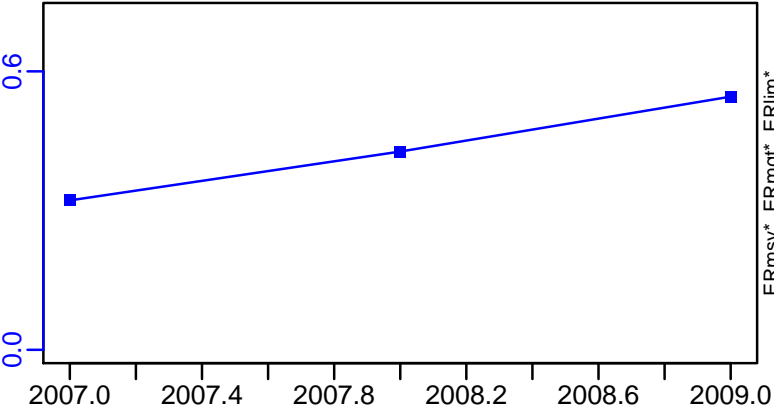
TN \*



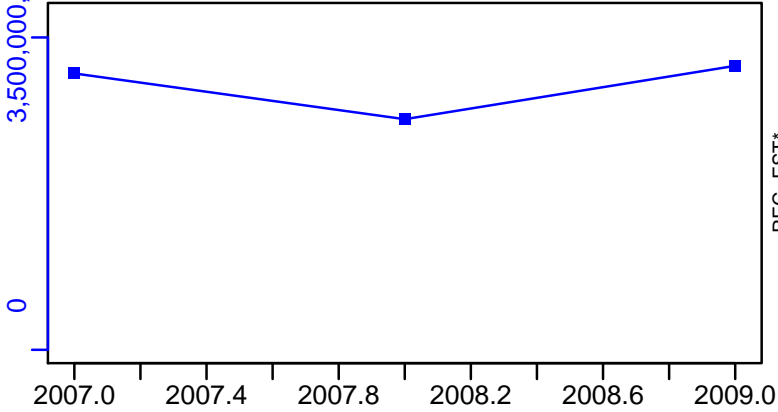
F-1/yr (2007–2011–BANOB)



ER-calc-ratio (2007–2009–OSIO)

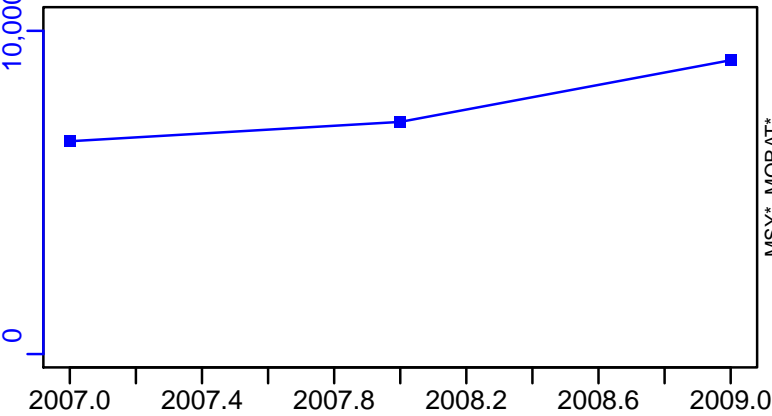


R-E00 (2007–2009–OSIO)

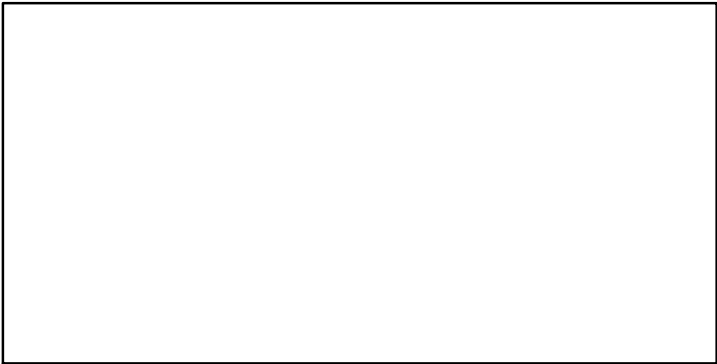


Deep water rose shrimp Geographical Sub-Areas 12–16 [RSHRMPMEDGSA12–16]

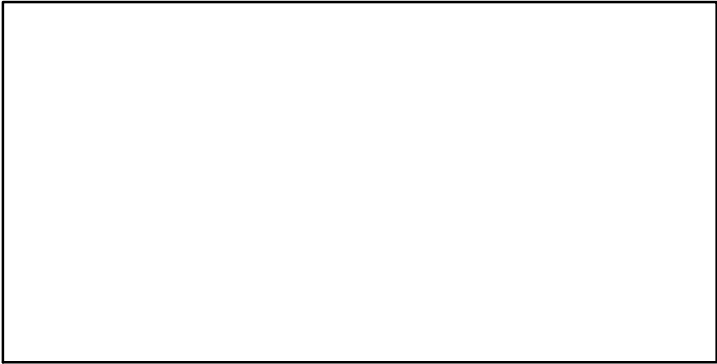
TC–MT, TL\*, RecC\* (2007–2009–OSIO)



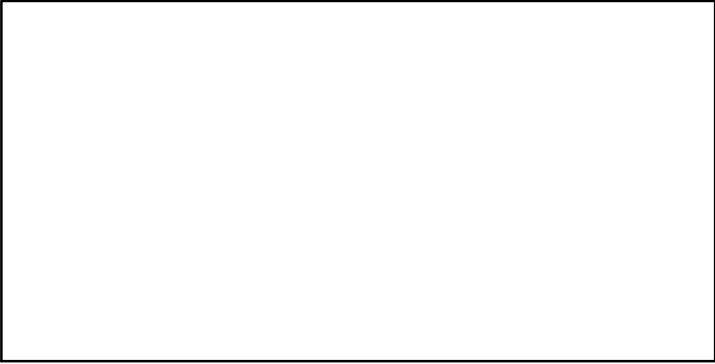
TAC\*, Cpair\*, Cadv\*



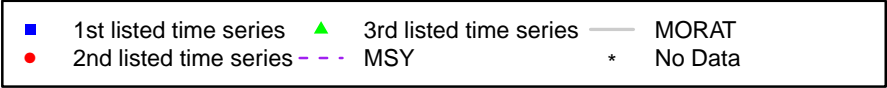
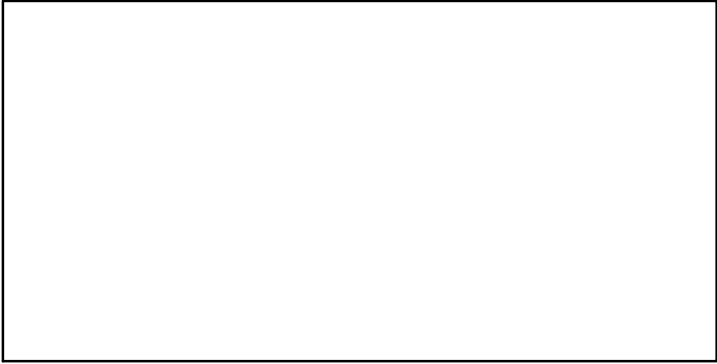
CPUE\*



EFFORT\*



CdivMSY\*



## Deep water rose shrimp Geographical Sub-Areas 17-19 [RSHRMPMEDGSA17-19]

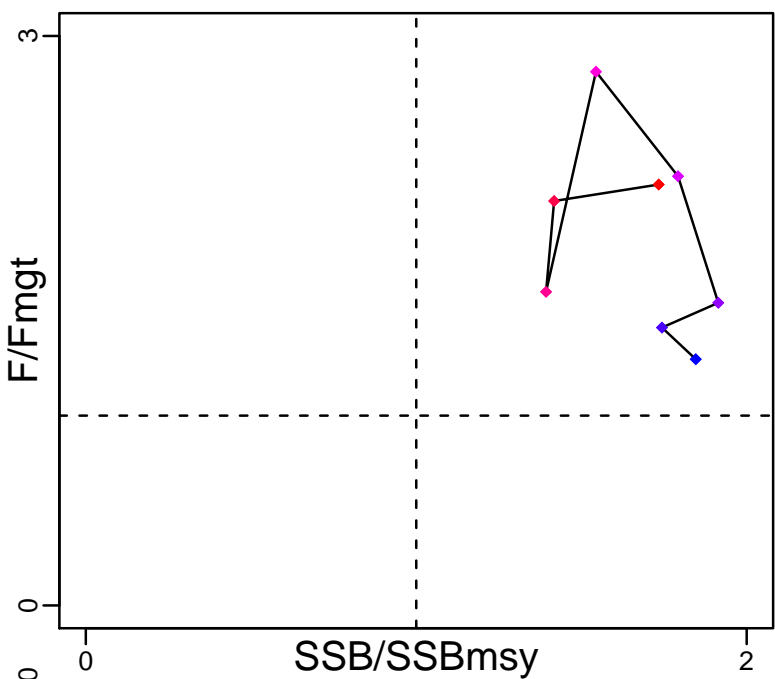
Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-RSHRMPMEDGSA17-19-2007-2014-OSIO
<b>Area</b>	Geographical Sub-Areas 17-19
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	2053
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.365
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.69
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	3163
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

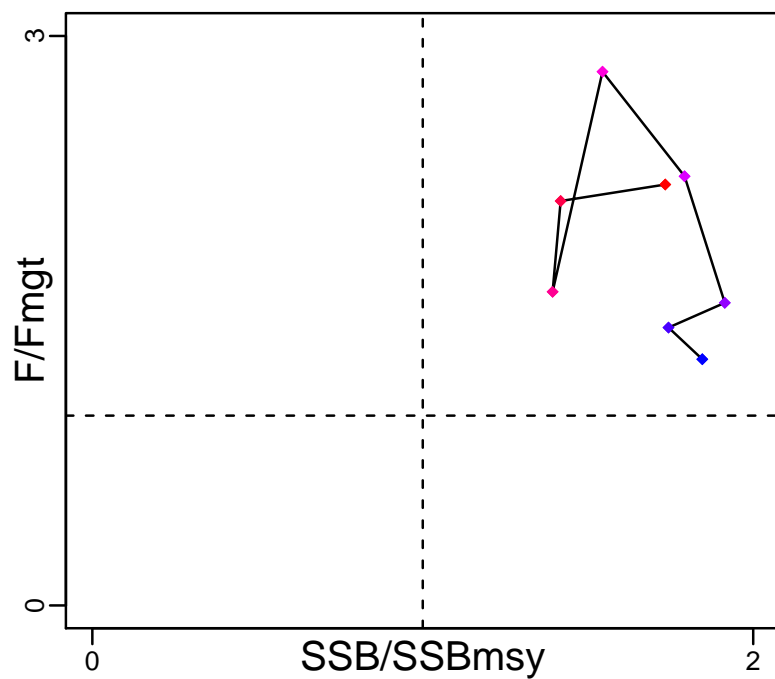
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	3560	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.32 \times 10^9$	-	-
<b>F</b>	F-1/yr	2014	1.53	-	-
<b>ER</b>	ER-calc-ratio	2014	0.13	-	-
<b>TC</b>	TC-MT	2014	1960		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.734		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.357		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	2.217		
<b>ER/ERmgt</b>	-	-	-		

# Deep water rose shrimp Geographical Sub-Areas 17–19 [RSHRMPMEDGSA17–19]

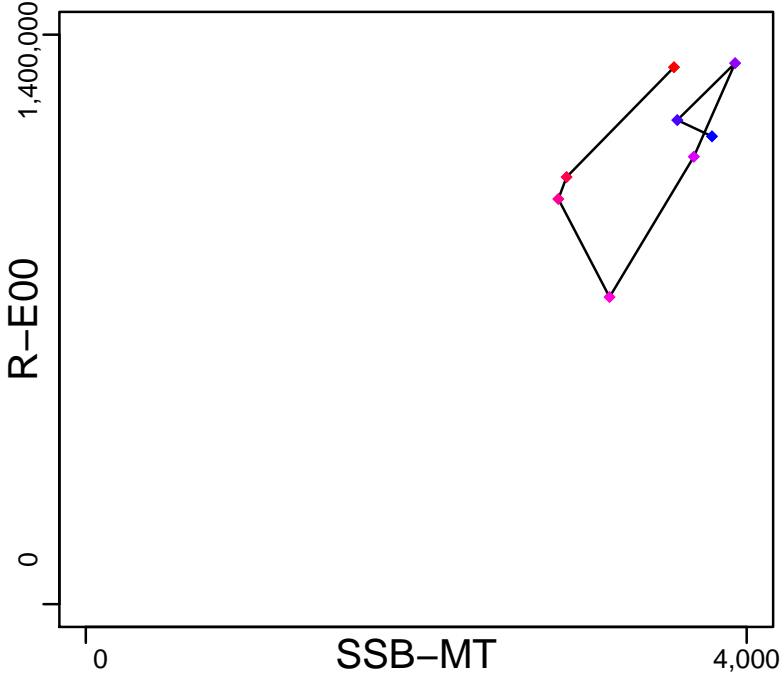
Kobe MSYpref (2007–2014–OSIO)



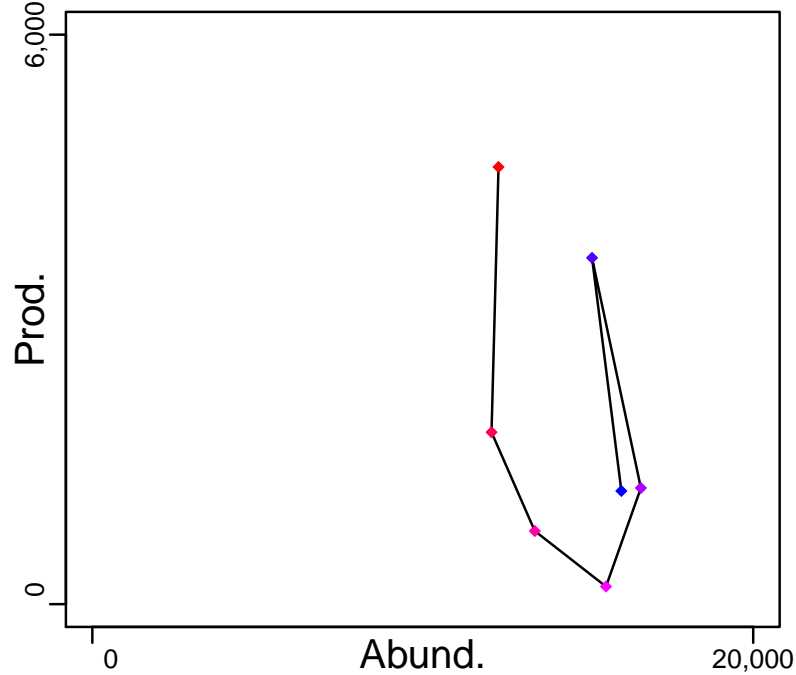
Kobe MGTpref (2007–2014–OSIO)



Spawner Recruit (2007–2014–OSIO)



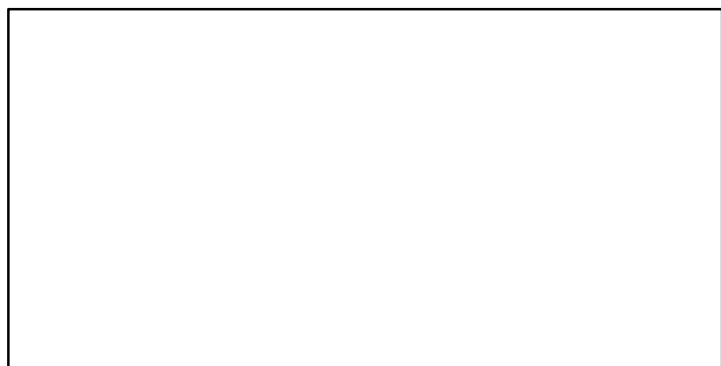
Production (2007–2014–OSIO)



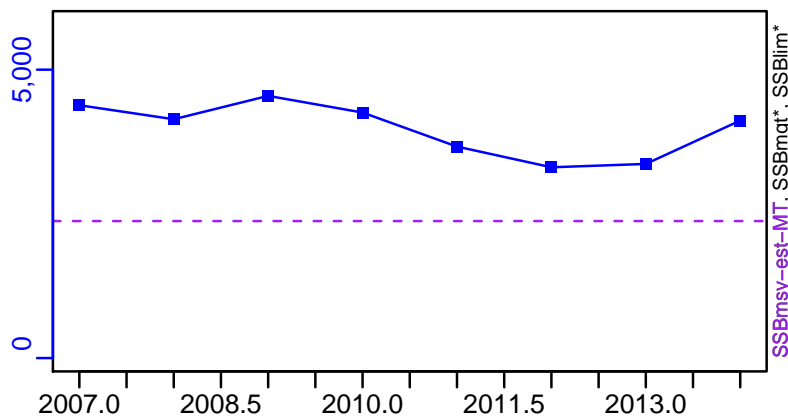
◆ Start Year ◆ End Year \* No Data

# Deep water rose shrimp Geographical Sub-Areas 17–19 [RSHRMPMEDGSA17–19]

TB\*



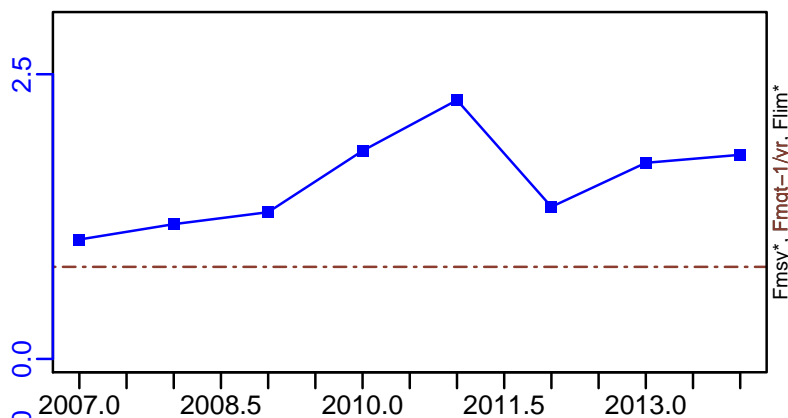
SSB-MT (2007–2014–OSIO)



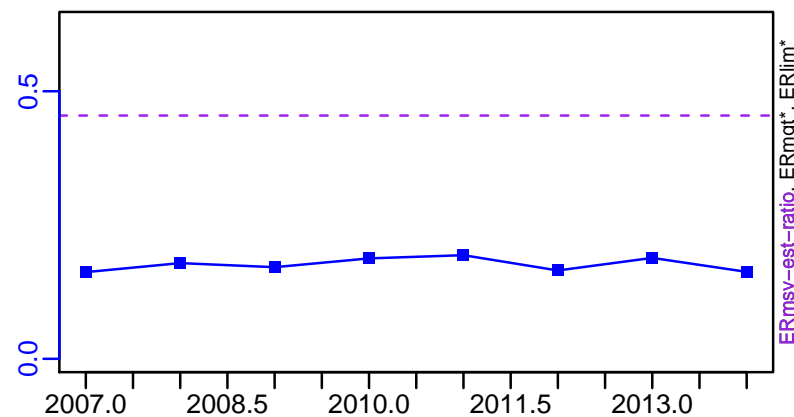
TN \*



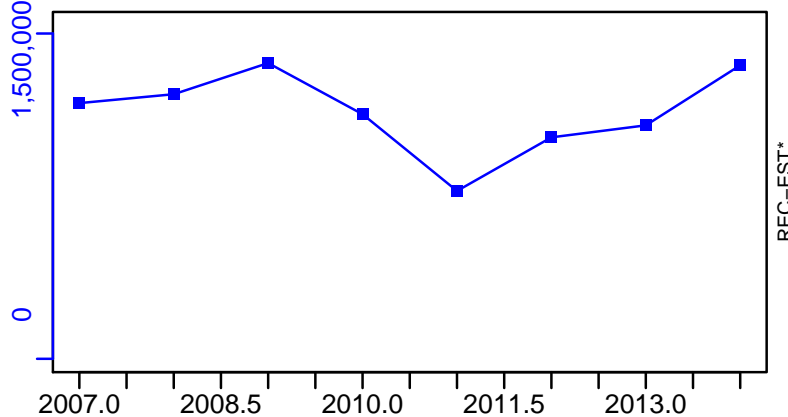
F-1/yr (2007–2014–OSIO)



ER-calc-ratio (2007–2014–OSIO)

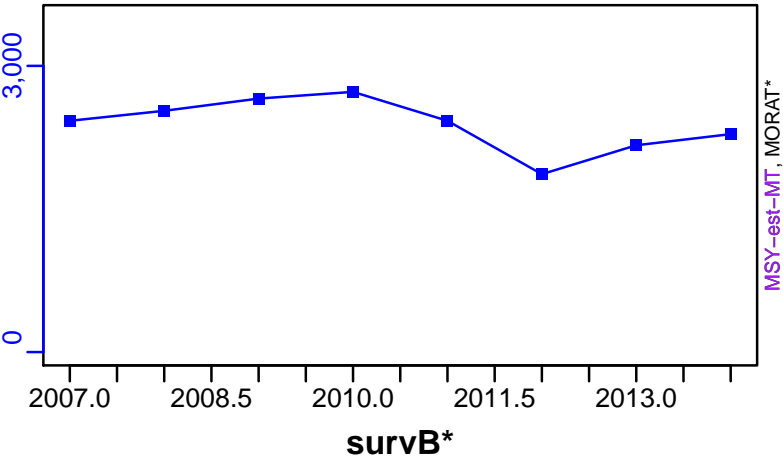


R-E00 (2007–2014–OSIO)



Deep water rose shrimp Geographical Sub-Areas 17–19 [RSHRMPMEDGSA17–19]

TC–MT, TL\*, RecC\* (2007–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



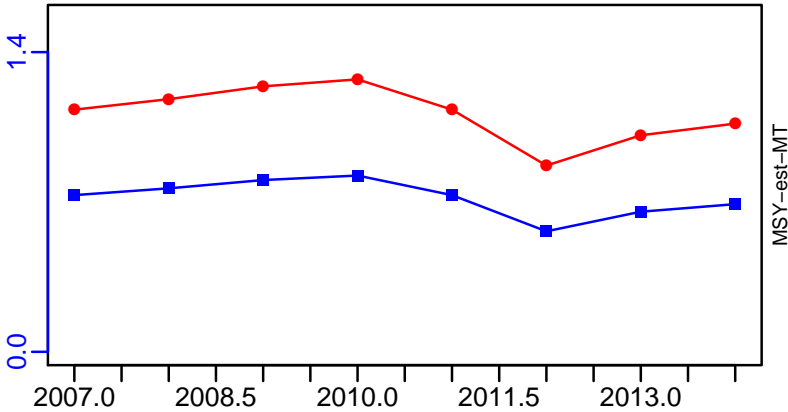
CPUE\*



EFFORT\*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (2007–2014–OSIO)



## Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

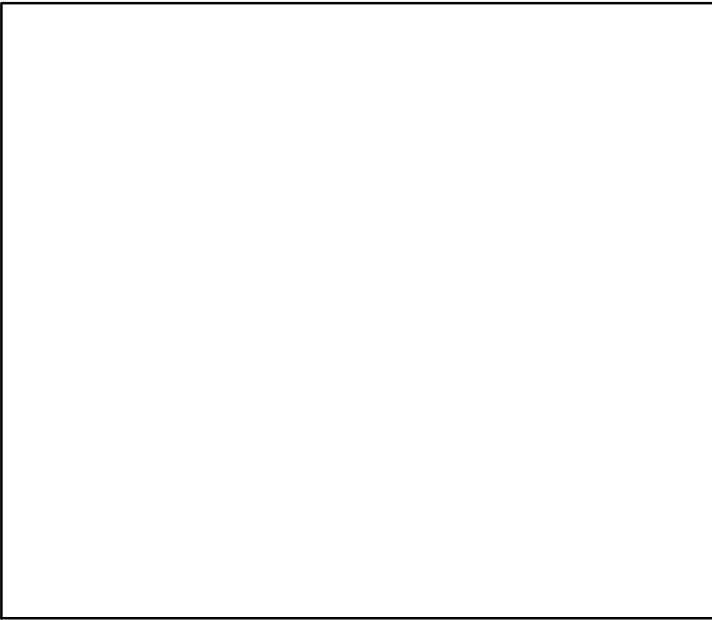
Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-RSHRMPMEDGSA5-2002-2012-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

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>	Fmgt-1/yr	2012	0.62
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	7	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	3,490,000	-	-
<b>F</b>	F-1/yr	2012	0.68	-	-
<b>ER</b>	ER-calc-ratio	2012	0.14	-	-
<b>TC</b>	TC-MT	2012	4.17		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2012	1.097		
<b>ER/ERmgt</b>	-	-	-		



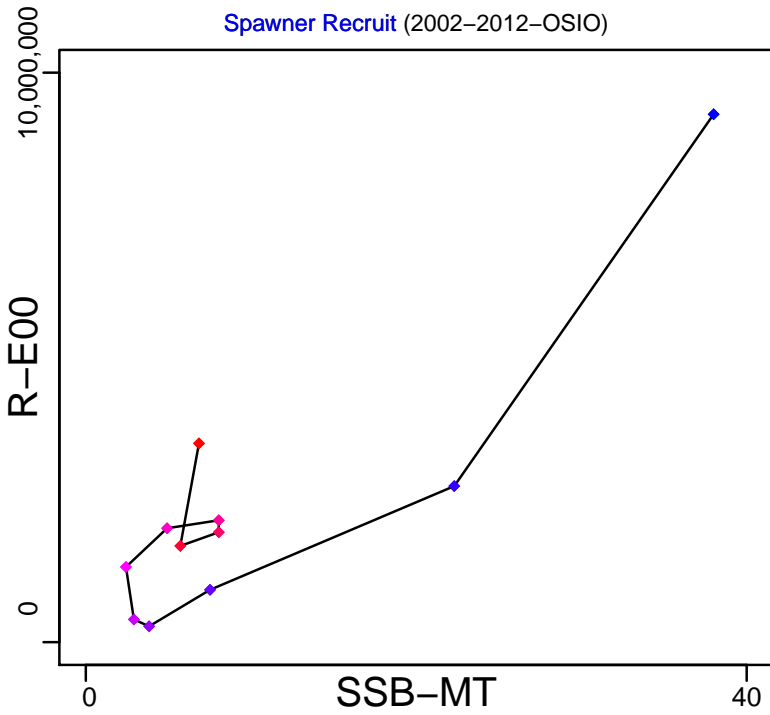
Kobe MSY\*



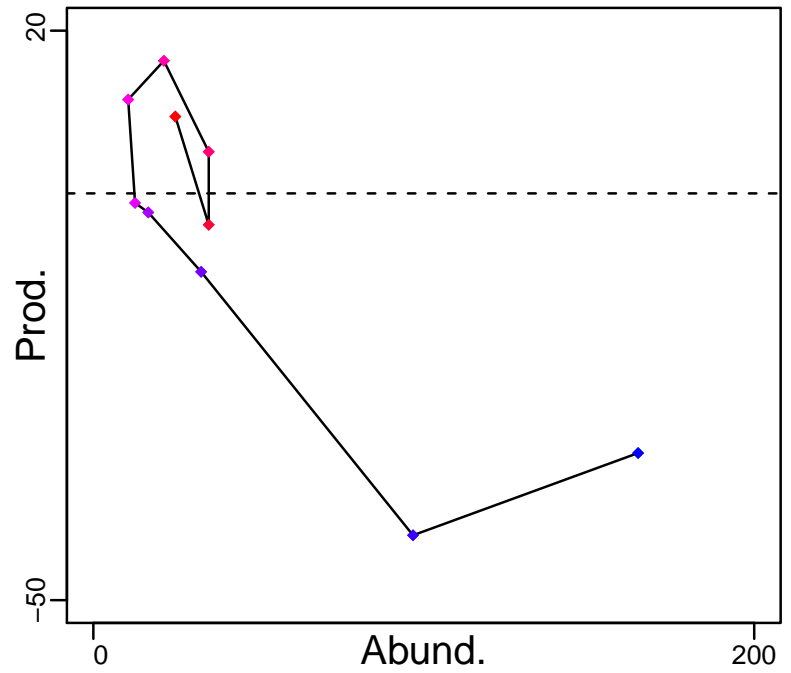
Kobe MGT\*



Spawner Recruit (2002–2012–OSIO)



Production (2002–2012–OSIO)



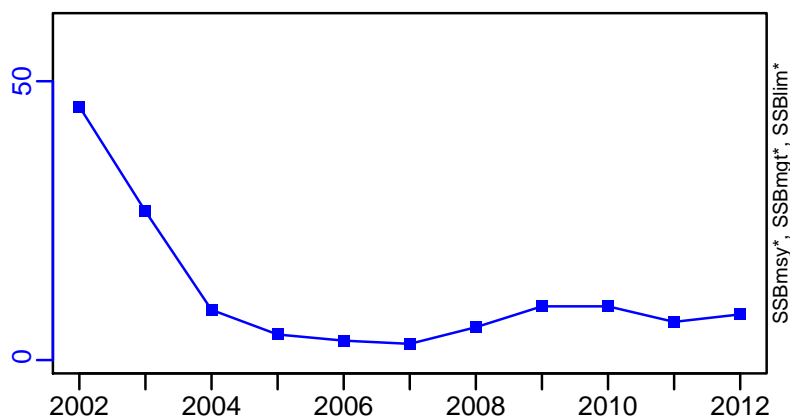
◆ Start Year ◆ End Year \* No Data

# Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

TB\*



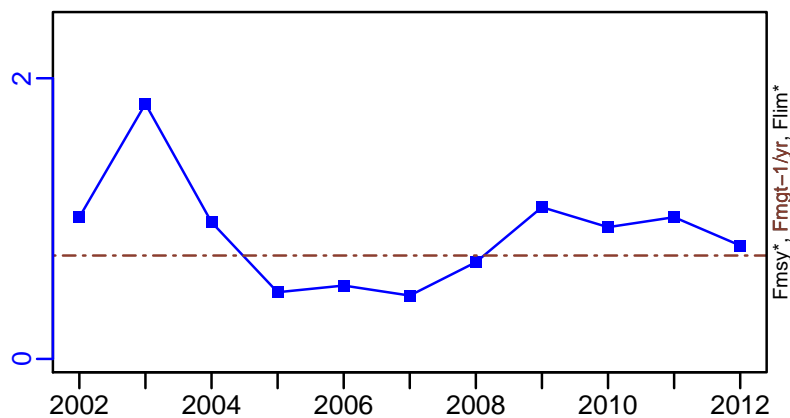
SSB-MT (2002-2012-OSIO)



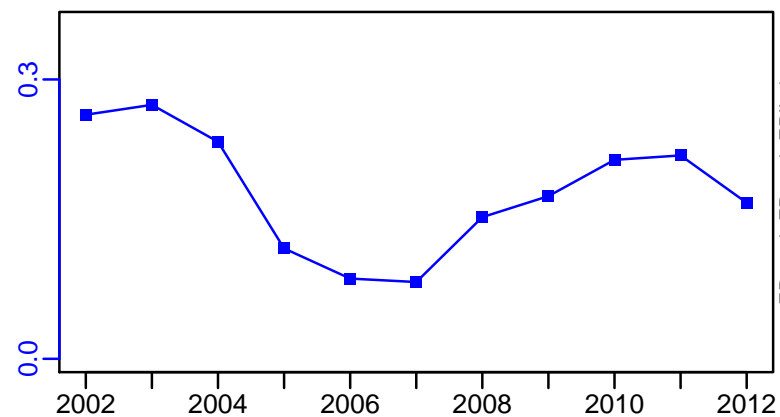
TN \*



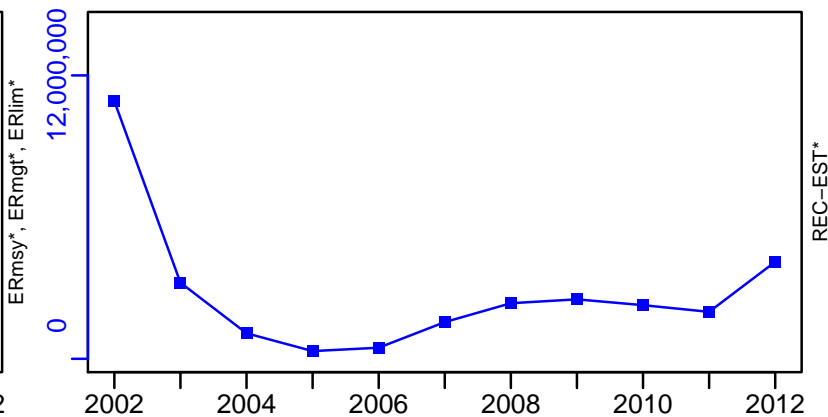
F-1/yr (2002-2012-OSIO)



ER-calc-ratio (2002-2012-OSIO)

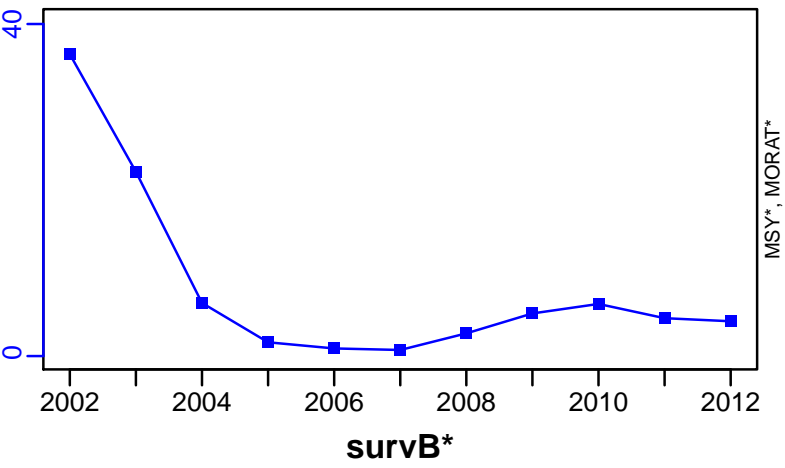


R-E00 (2002-2012-OSIO)



Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

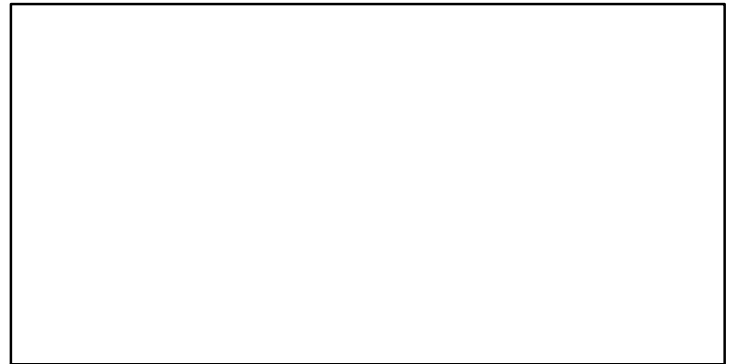
TC-MT, TL\*, RecC\* (2002-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



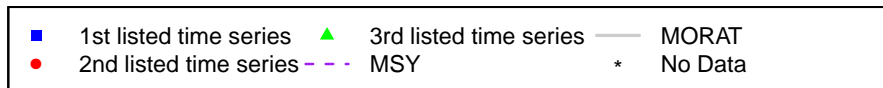
CPUE\*



EFFORT\*



CdivMSY\*



## Deep water rose shrimp Geographical Sub-Areas 9-11 [RSHRMPMEDGSA9-11]

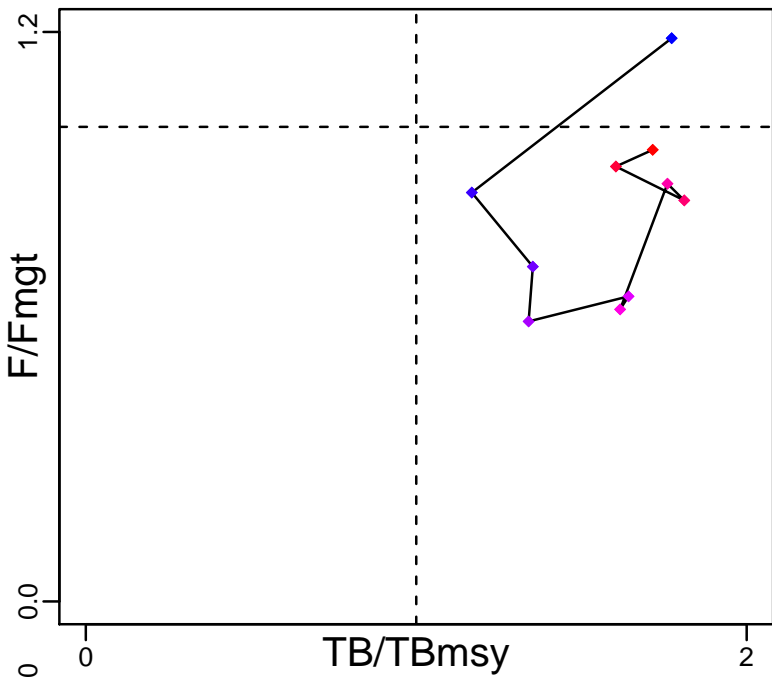
Metadata	
<b>Scientific Name</b>	Parapenaeus longirostris
<b>Current Assess ID</b>	STECF-RSHRMPMEDGSA9-11-2006-2015-OSIO
<b>Area</b>	Geographical Sub-Areas 9-11
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	3142
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.493
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.91
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	1549
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

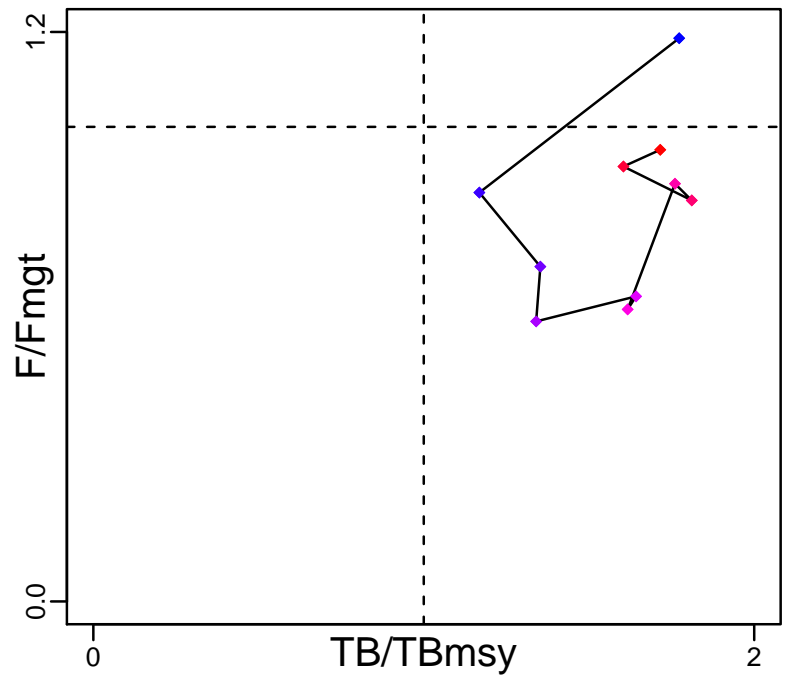
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	5390	-	-
<b>SSB</b>	SSB-MT	2015	1750	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$8.58 \times 10^8$	-	-
<b>F</b>	F-1/yr	2015	0.866	-	-
<b>ER</b>	ER-calc-ratio	2015	0.286	-	-
<b>TC</b>	TC-MT	2015	1540		
<b>TL</b>	TL-MT	2015	1540		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	1.716		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.579		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.952		
<b>ER/ERmgt</b>	-	-	-		

# Deep water rose shrimp Geographical Sub-Areas 9–11 [RSHRMPMEDGSA9–11]

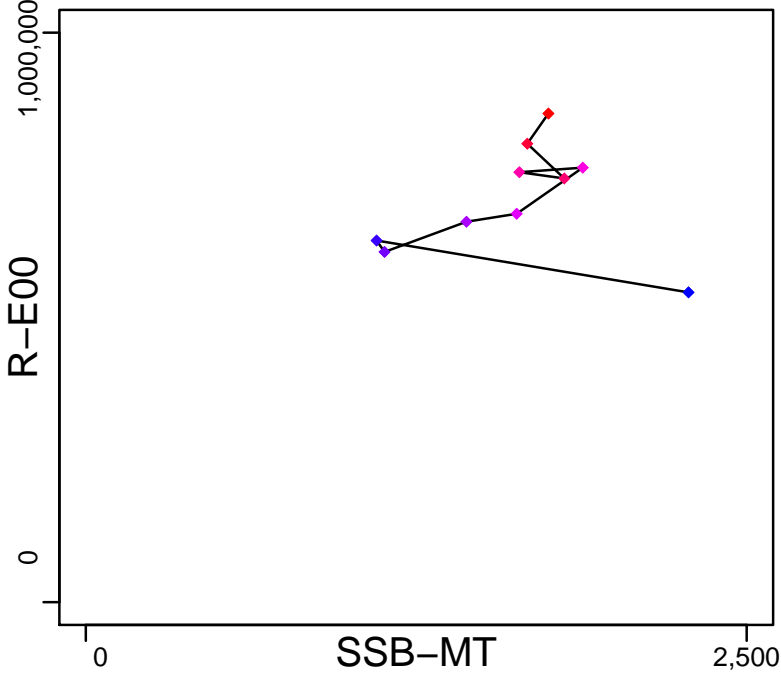
Kobe MSYpref (2006–2015–OSIO)



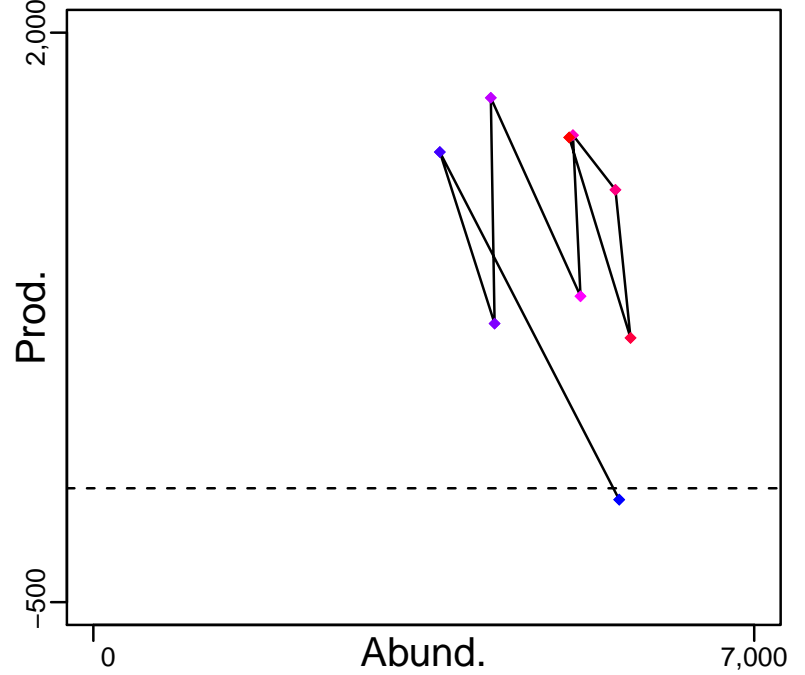
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)



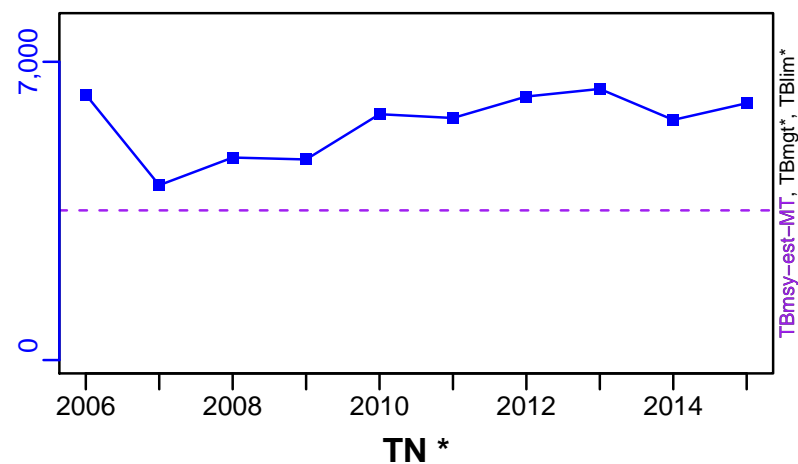
Production (2006–2015–OSIO)



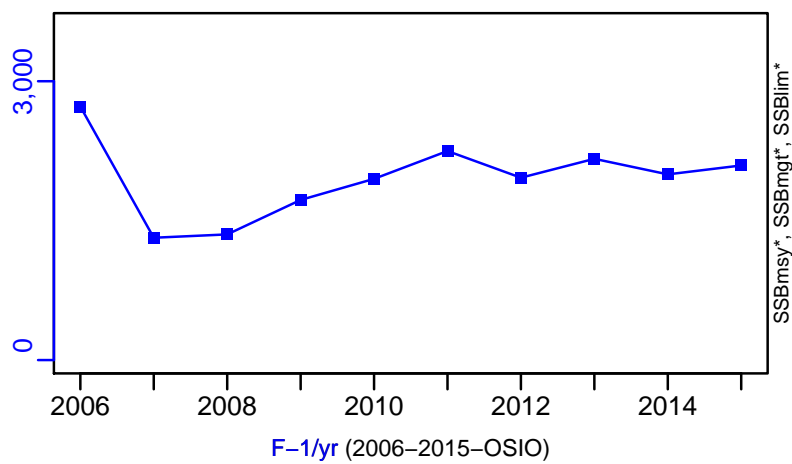
◆ Start Year ◆ End Year \* No Data

# Deep water rose shrimp Geographical Sub-Areas 9-11 [RSHRMPMEDGSA9-11]

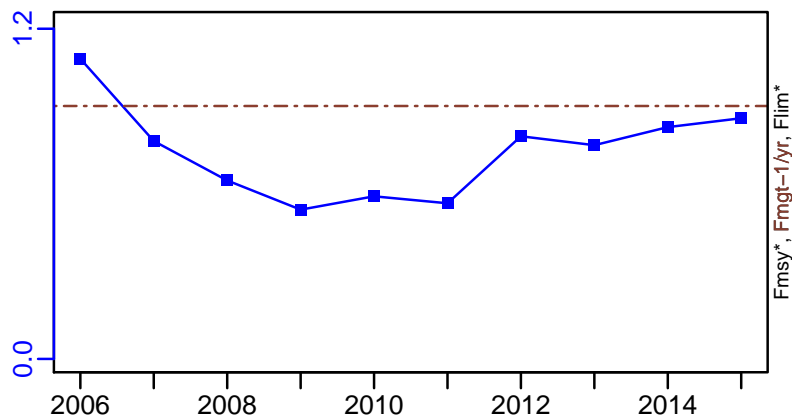
TB-MT (2006-2015-OSIO)



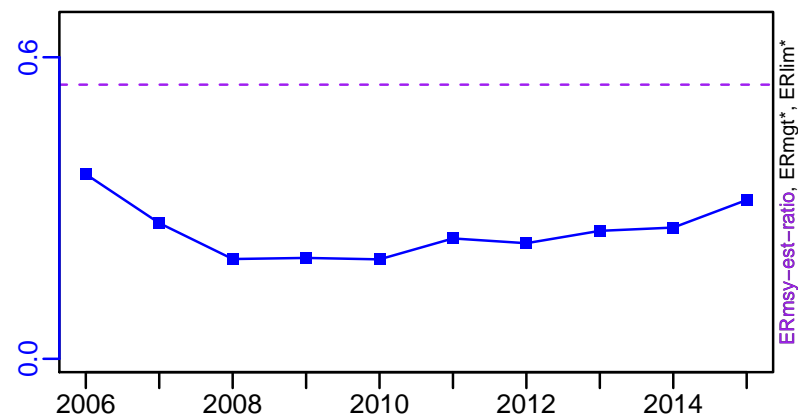
SSB-MT (2006-2015-OSIO)



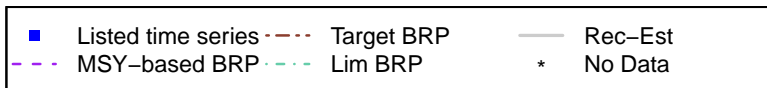
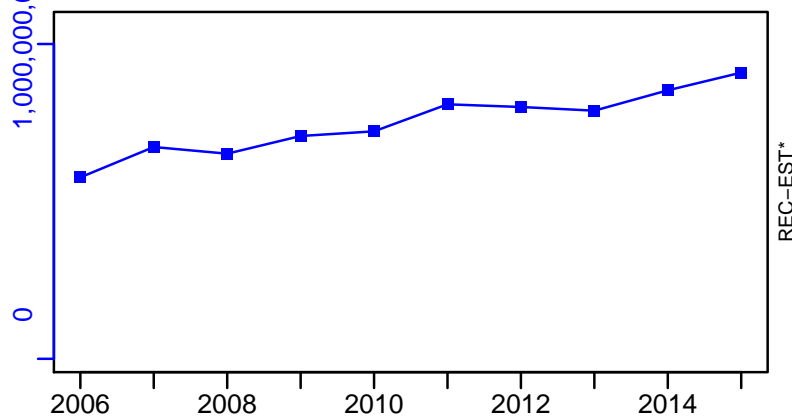
F-1/yr (2006-2015-OSIO)



ER-calc-ratio (2006-2015-OSIO)



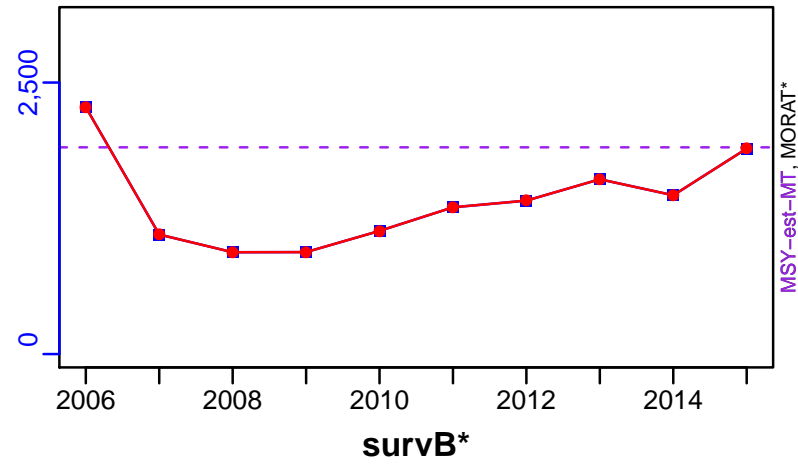
R-E00 (2006-2015-OSIO)



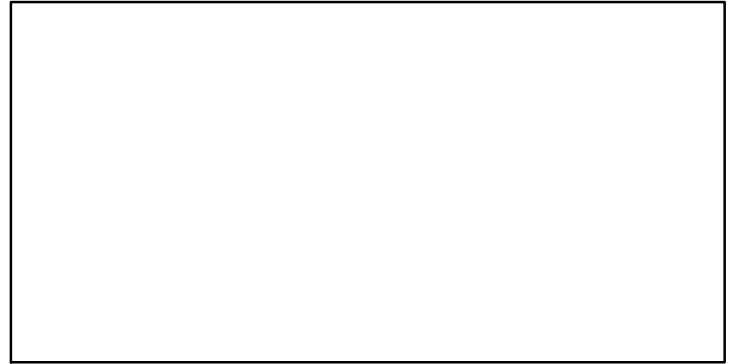
# Deep water rose shrimp Geographical Sub-Areas 9–11 [RSHRMPMEDGSA9–11]

TC–MT, TL–MT, RecC\* (2006–2015–OSIO)

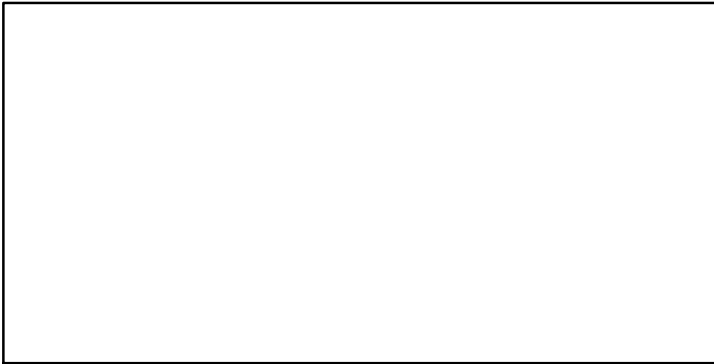
TAC\*, Cpair\*, Cadv\*



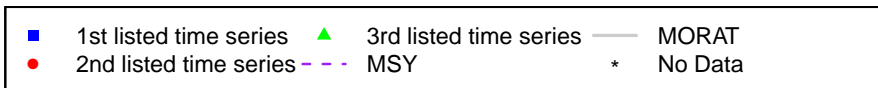
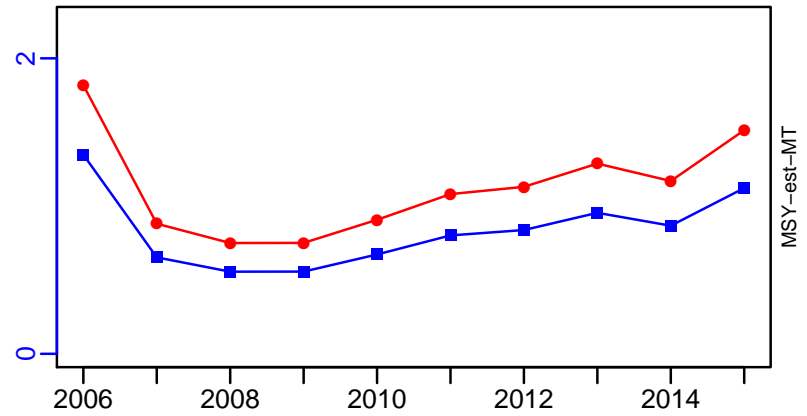
CPUE\*



EFFORT\*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (2006–2015–OSIO)



## European pilchard Northern Alboran Sea [SARDMEDGSA1]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA1-2002-2012-OSIO
<b>Area</b>	Northern Alboran Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	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	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	6220		
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\*

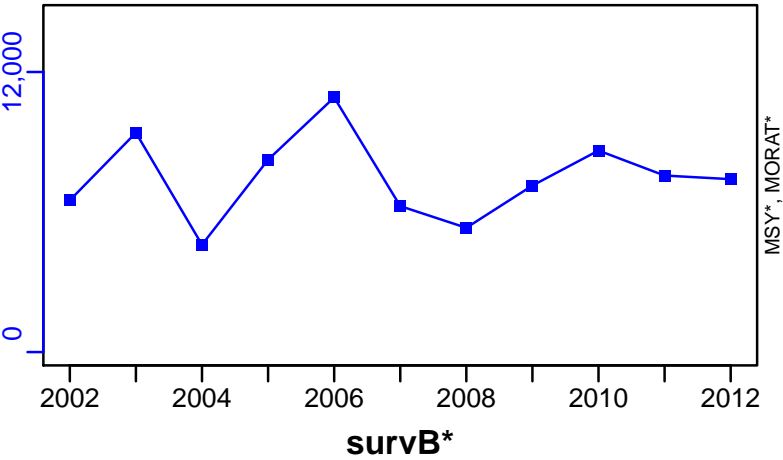


Recruits\*



European pilchard Northern Alboran Sea [SARDMEDGSA1]

TC-MT, TL\*, RecC\* (2002-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



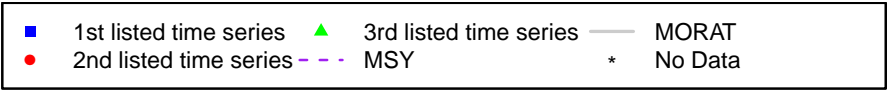
CPUE\*



EFFORT\*



CdivMSY\*



## Sardine South of Sicily [SARDMEDGSA16]

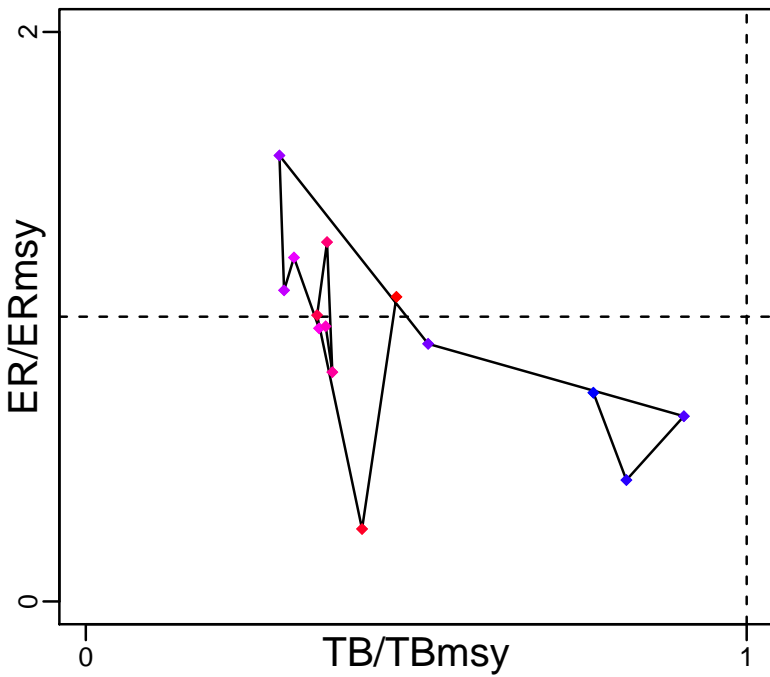
Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	CNR-IAMC-SARDMEDGSA16-1998-2011-BANOBI
<b>Area</b>	South of Sicily
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Institute for Coastal Marine Environment of the National Research Council
<b>Asmts in RAM</b>	2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-MT	2011	32,527
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2011	0.16
<b>ERmsy</b>	ERmsy-calc-ratio	2011	0.163
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2011	5307
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

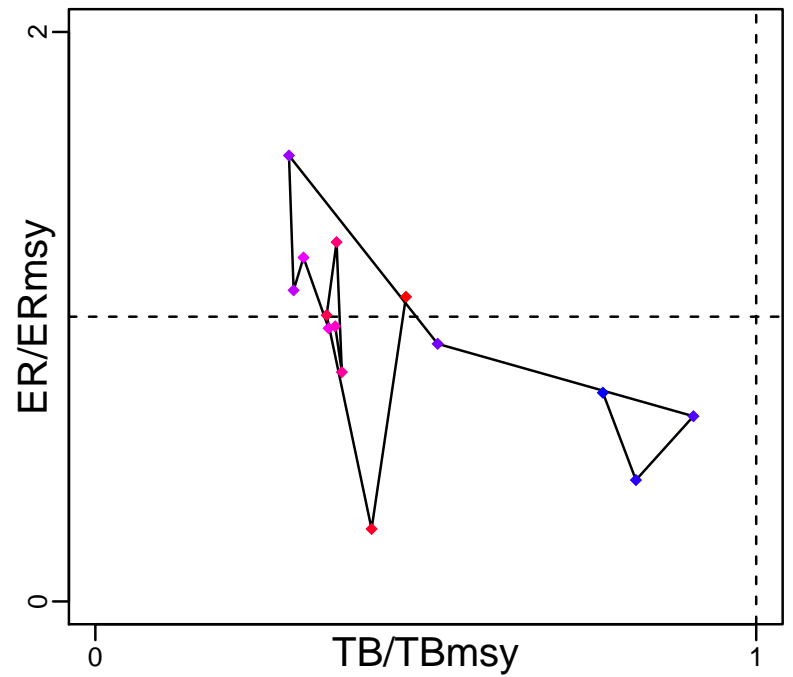
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2011	15,300	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2011	0.171	-	-
<b>ER</b>	ER-calc-ratio	2011	0.175	-	-
<b>TC</b>	TC-MT	2011	2670		
<b>TL</b>	TL-MT	2011	1780		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2011	0.47		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2011	1.07		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-calc-ratio	2011	1.07		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Sardine South of Sicily [SARDMEDGSA16]

Kobe MSYpref (1998–2011–BANOB1)



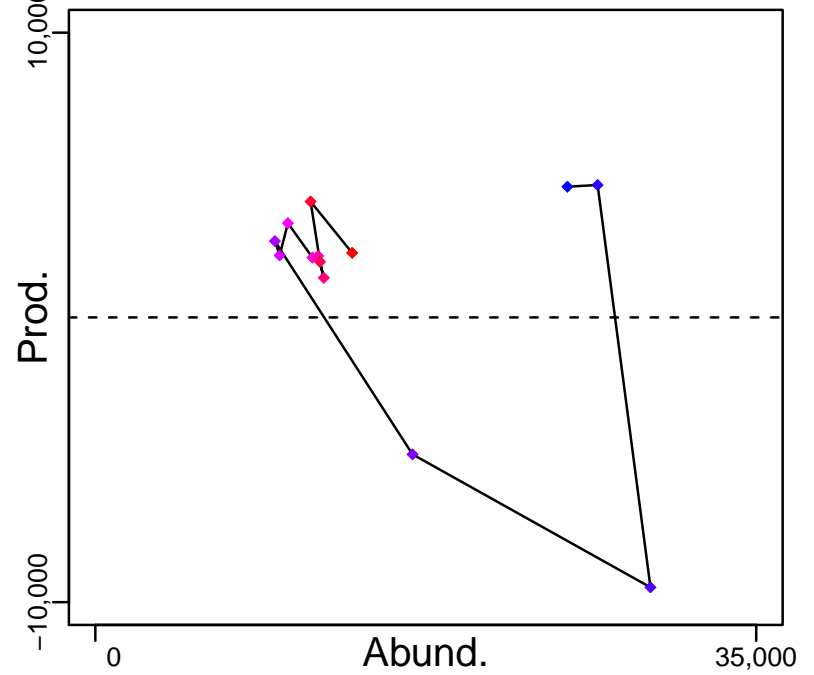
Kobe MGTpref (1998–2011–BANOB1)



Spawner Recruit\*



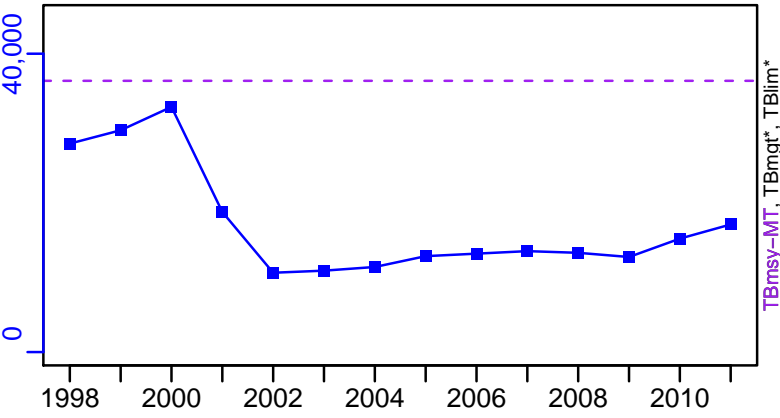
Production (1998–2011–BANOB1)



◆ Start Year ◆ End Year \* No Data

# Sardine South of Sicily [SARDMEDGSA16]

TB-MT (1998–2011–BANOB1)



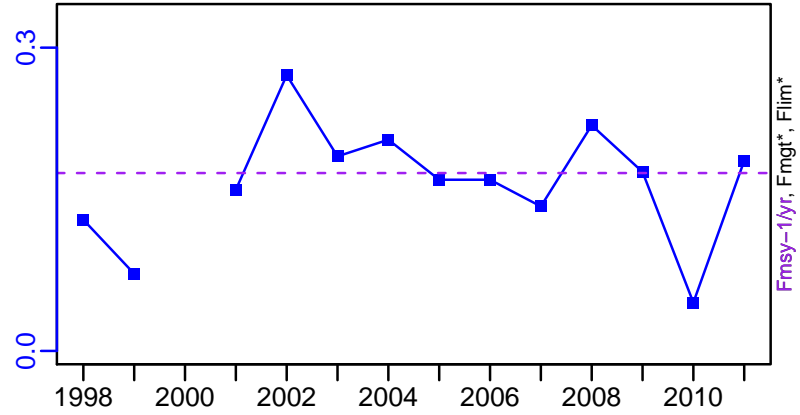
SSB\*



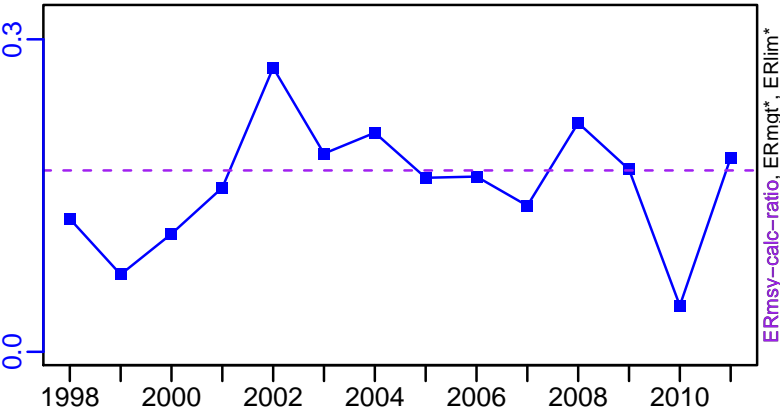
TN \*



F-1/yr (1998–2011–BANOB1)



ER-calc-ratio (1998–2011–BANOB1)

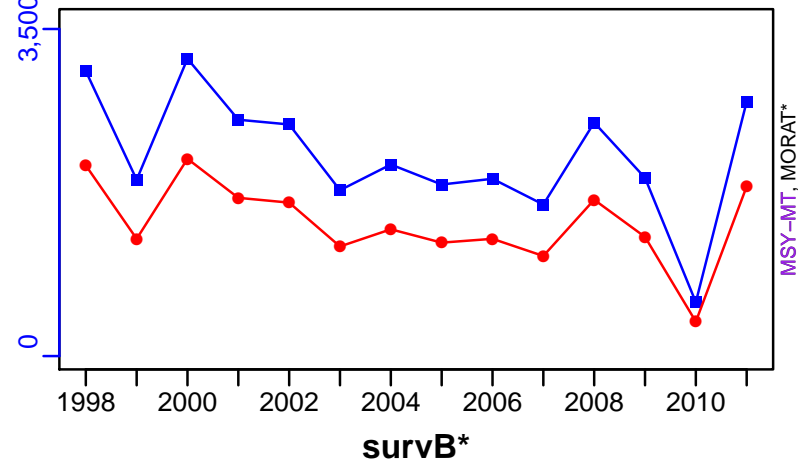


Recruits\*



# Sardine South of Sicily [SARDMEDGSA16]

TC-MT, TL-MT, RecC\* (1998–2011–BANOB)



TAC\*, Cpair\*, Cadv\*



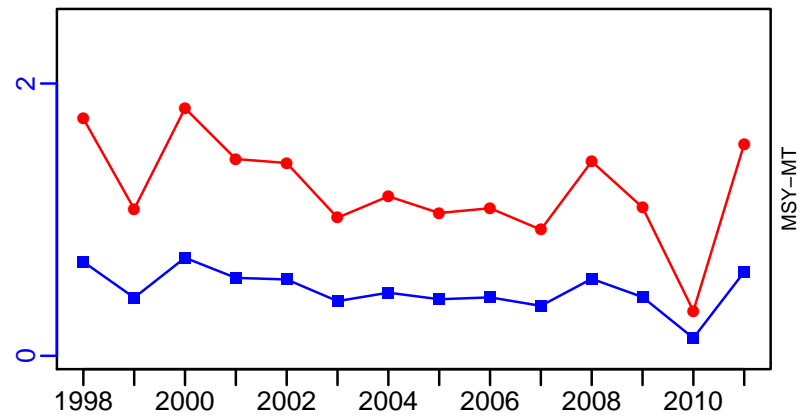
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1998–2011–BANOB)



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

## Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]

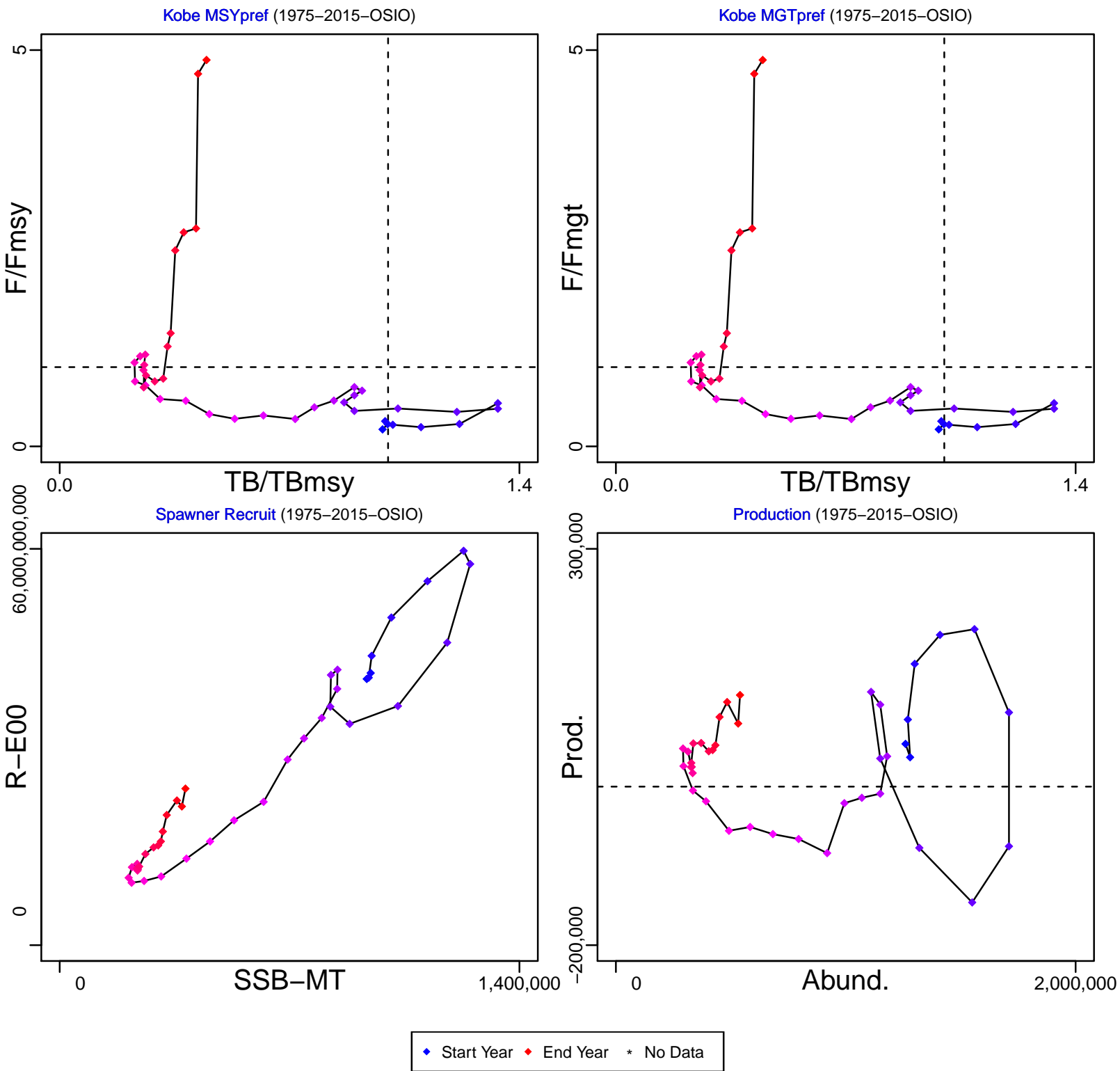
Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA17-18-1975-2015-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	1,281,535
<b>SSBmsy</b>	SSBmsy-est-MT	2013	462,446
<b>Fmsy</b>	Fmsy-1/yr	2015	0.4
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.031
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.4
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	39,779
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

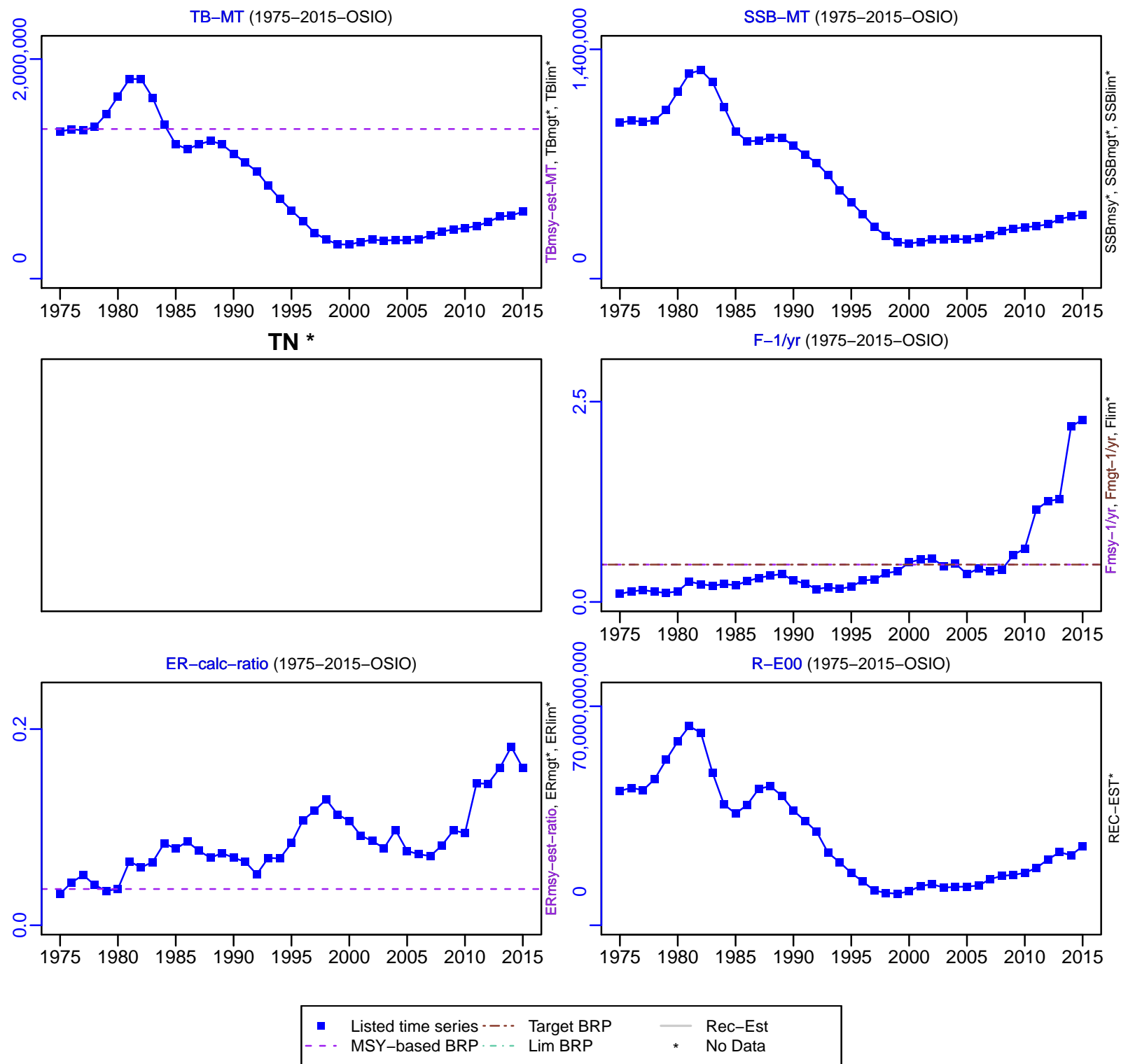
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	573,000	-	-
<b>SSB</b>	SSB-MT	2015	383,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$2.37 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2015	1.95	-	-
<b>ER</b>	ER-calc-ratio	2015	0.135	-	-
<b>TC</b>	TC-MT	2015	77,200		
<b>TL</b>	TL-MT	2015	77,200		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	0.447		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	0.378		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	4.875		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	4.34		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	4.875		
<b>ER/ERmgt</b>	-	-	-		



Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]

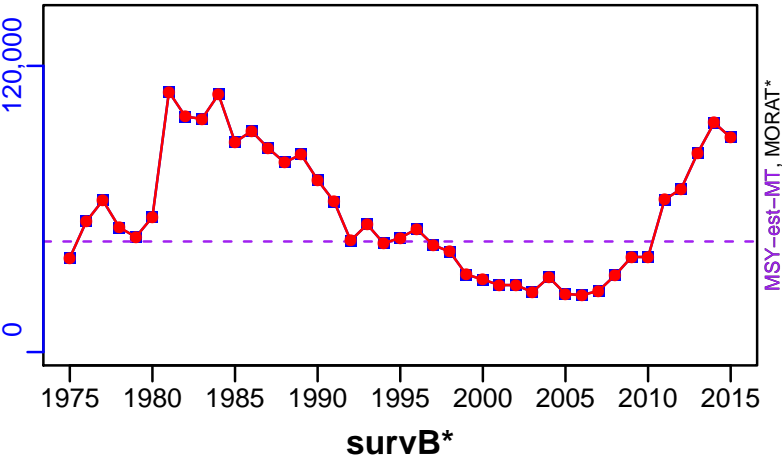


# Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]



Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]

TC-MT, TL-MT, RecC\* (1975-2015-OSIO)



TAC\*, Cpair\*, Cadv\*



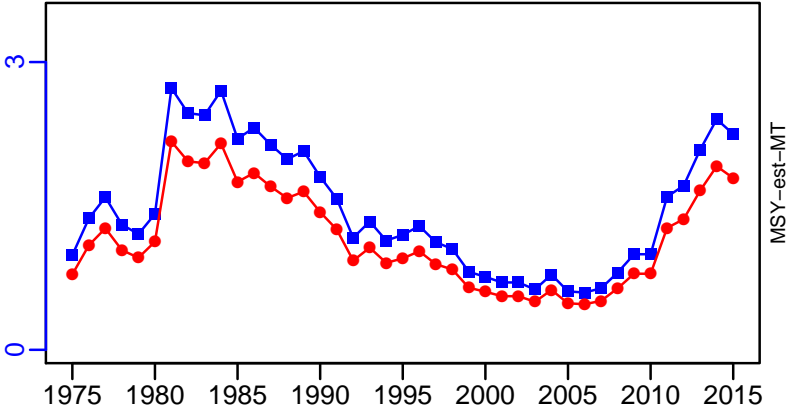
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1975-2015-OSIO)



## European pilchard Eastern Ionian Sea [SARDMEDGSA20]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA20-2000-2008-OSIO
<b>Area</b>	Eastern Ionian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

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

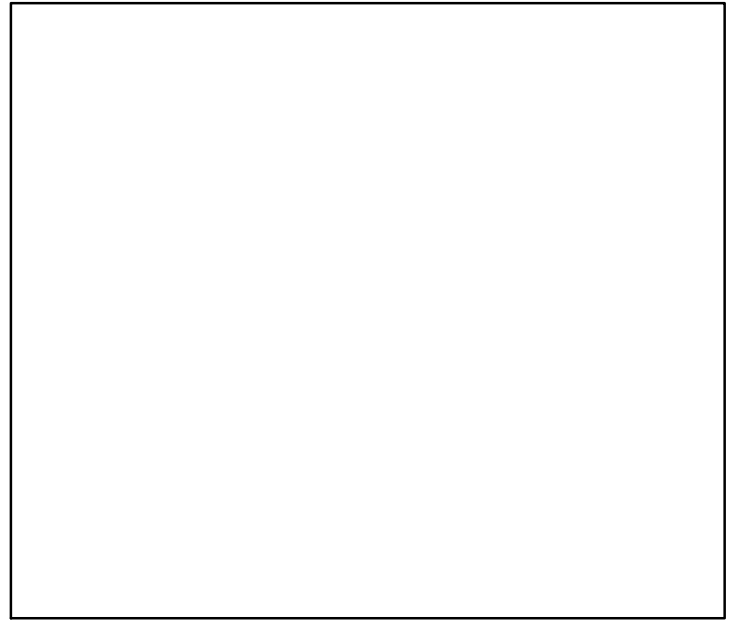
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	5650	-	1 to 3
TN	-	-	-	-	-
R	R-E00	2008	$1.02 \times 10^9$	-	-
F	F-1/yr	2008	0.68	-	-
ER	ER-calc-ratio	2008	0.406	-	-
TC	TC-MT	2008	2940		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

European pilchard Eastern Ionian Sea [SARDMEDGSA20]

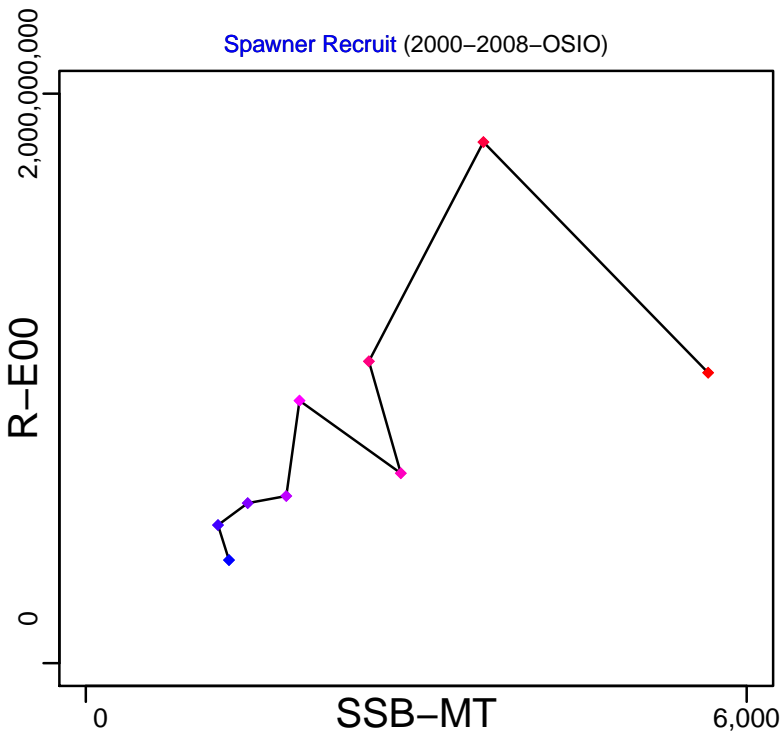
Kobe MSY\*



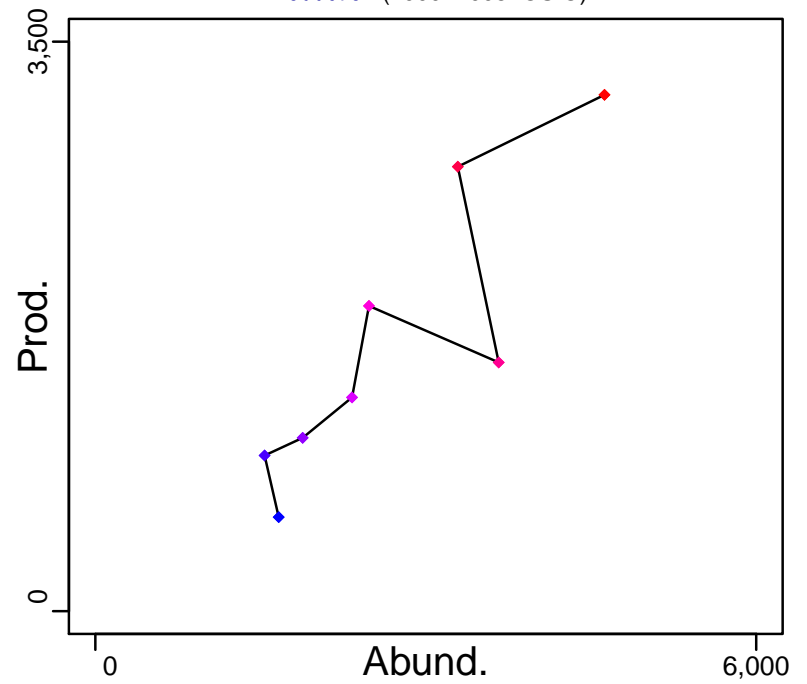
Kobe MGT\*



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)



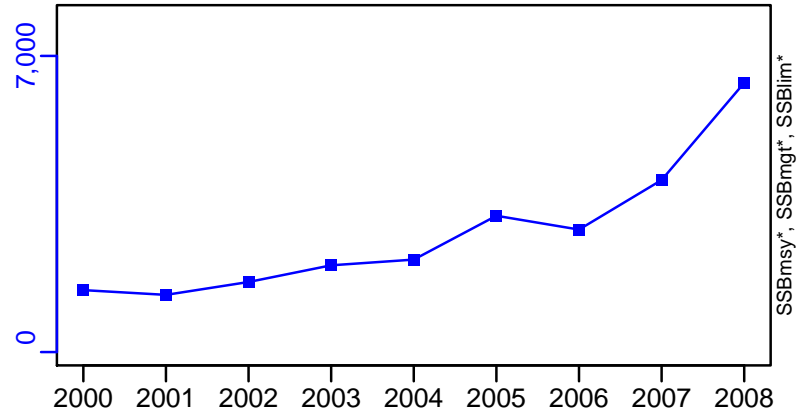
◆ Start Year ◆ End Year \* No Data

# European pilchard Eastern Ionian Sea [SARDMEDGSA20]

TB\*



SSB-MT (2000–2008–OSIO)



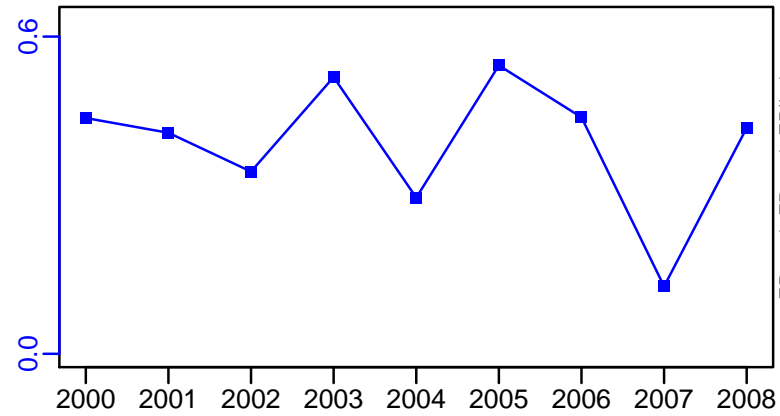
TN \*



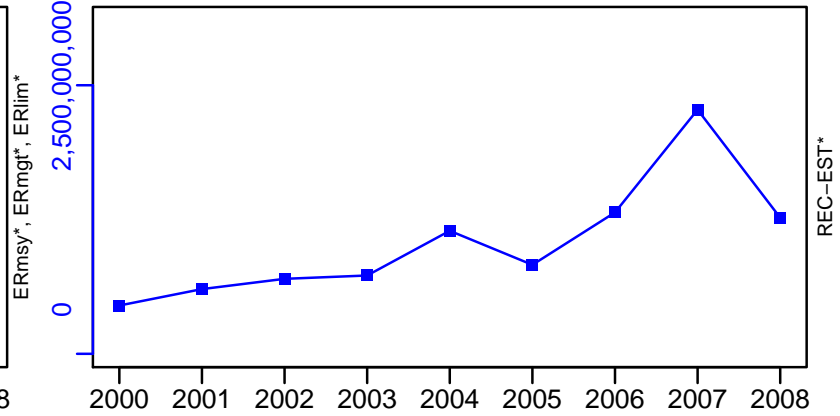
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

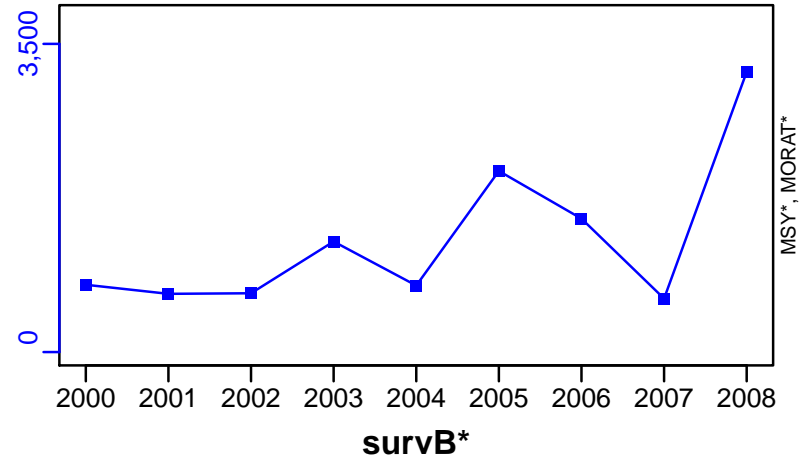


R-E00 (2000–2008–OSIO)



European pilchard Eastern Ionian Sea [SARDMEDGSA20]

TC-MT, TL\*, RecC\* (2000–2008–OSIO)



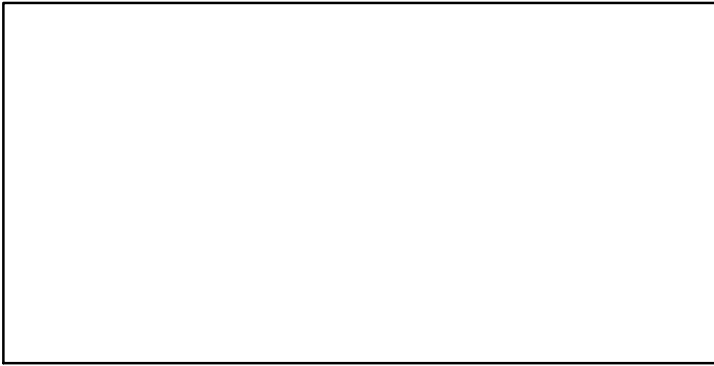
TAC\*, Cpair\*, Cadv\*



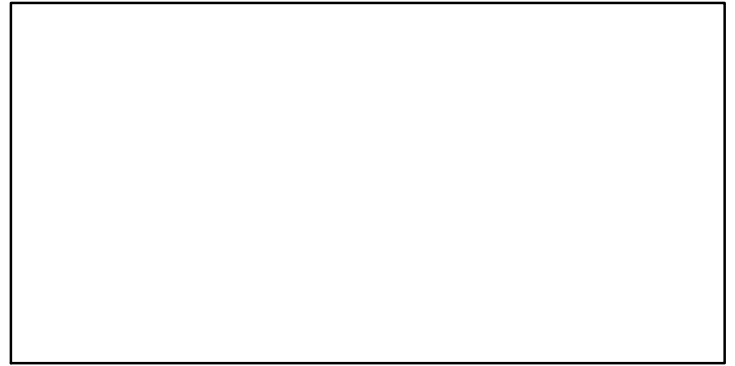
CPUE\*



EFFORT\*



CdivMSY\*



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

## European pilchard Aegean Sea [SARDMEDGSA22]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA22-2000-2008-OSIO
<b>Area</b>	Aegean Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2008

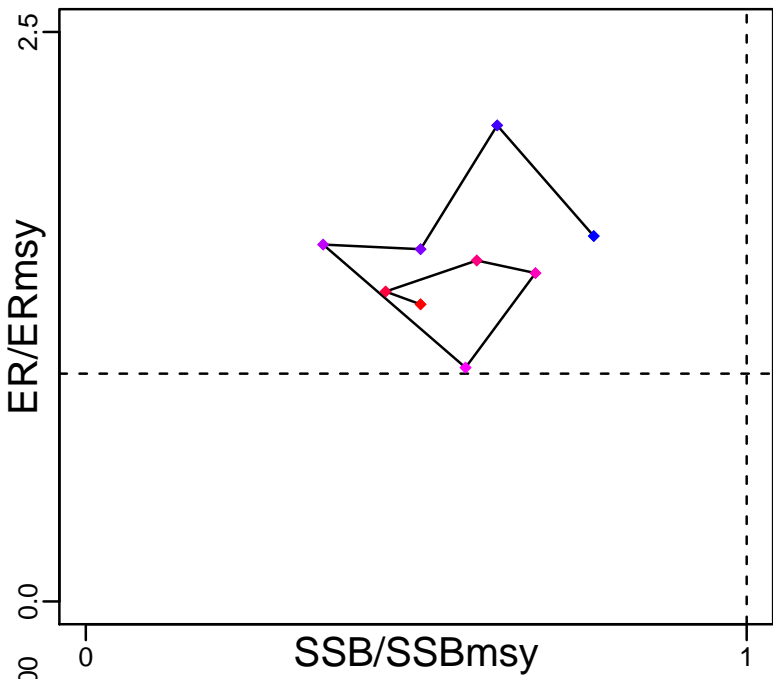
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2008	15,872
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2008	0.691
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2008	14,682
<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>	SSB-MT	2008	8040	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$6.46 \times 10^9$	-	-
<b>F</b>	F-1/yr	2008	0.752	-	-
<b>ER</b>	ER-calc-ratio	2008	0.902	-	-
<b>TC</b>	TC-MT	2008	9700		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2008	0.507		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2008	1.304		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

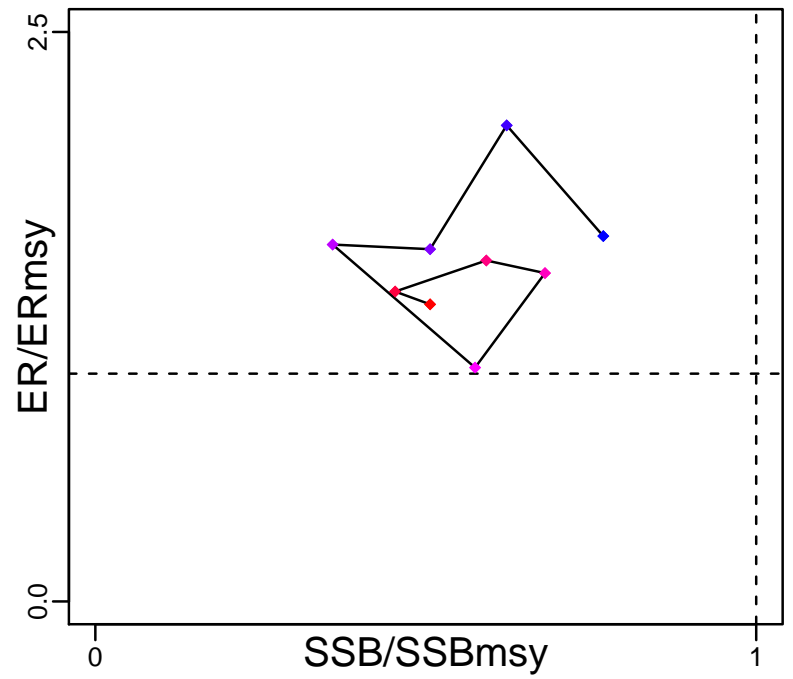


# European pilchard Aegean Sea [SARDMEDGSA22]

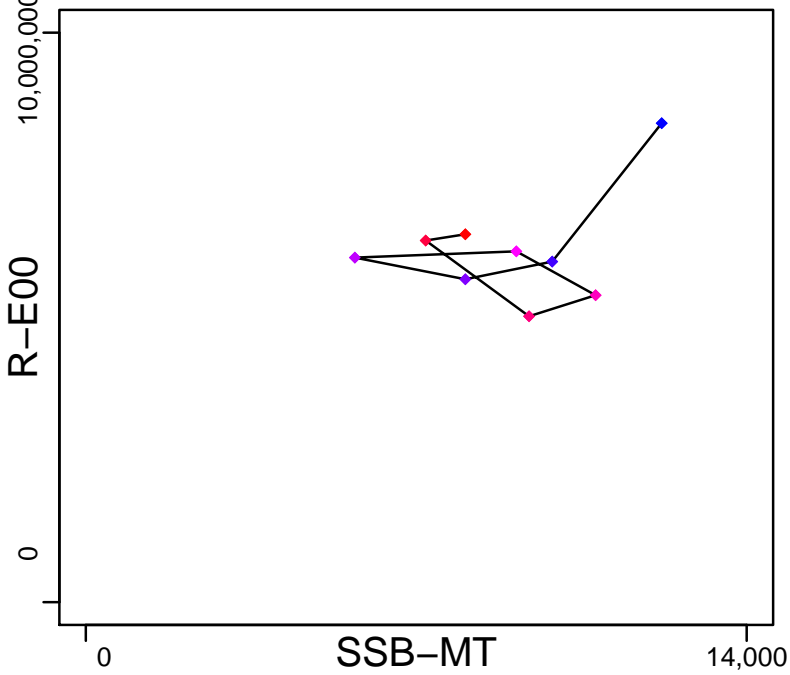
Kobe MSYpref (2000–2008–OSIO)



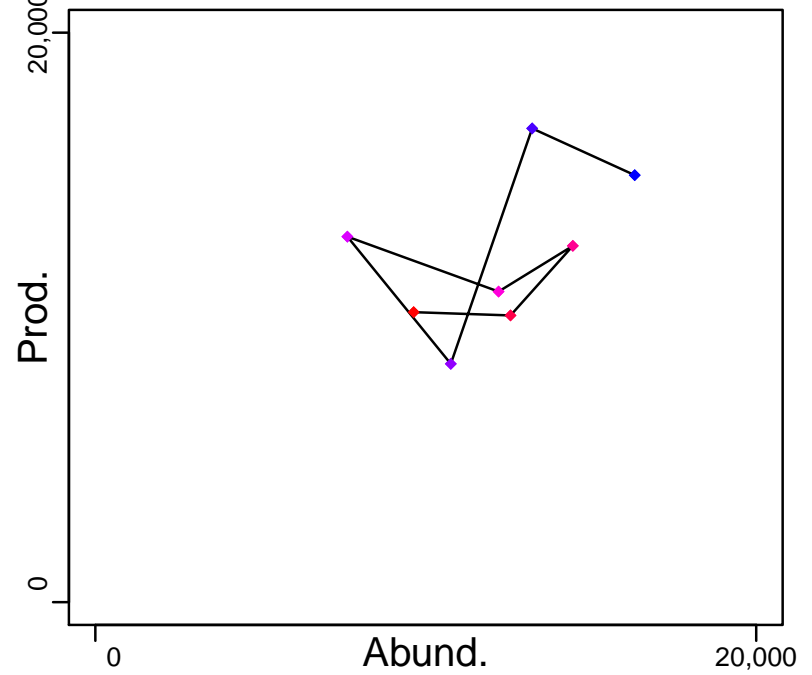
Kobe MGTpref (2000–2008–OSIO)



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)



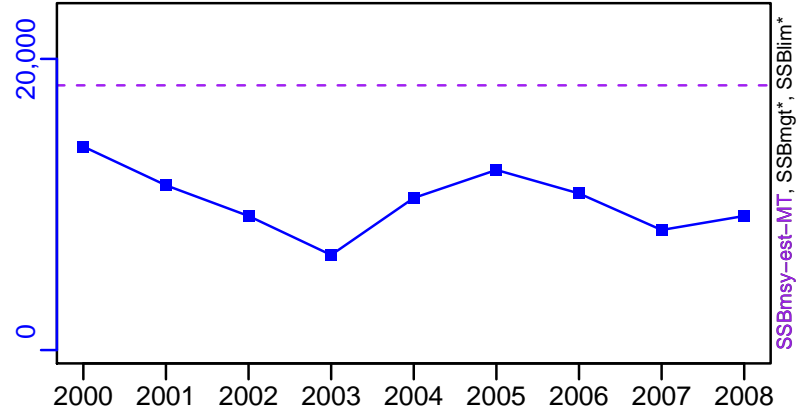
◆ Start Year ◆ End Year \* No Data

# European pilchard Aegean Sea [SARDMEDGSA22]

TB\*



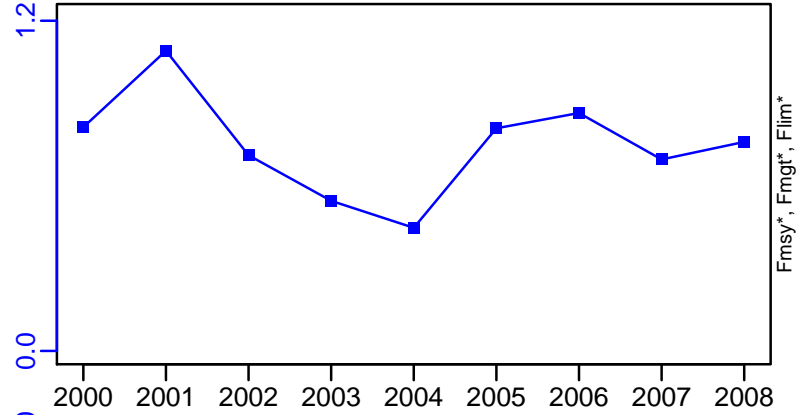
SSB-MT (2000–2008–OSIO)



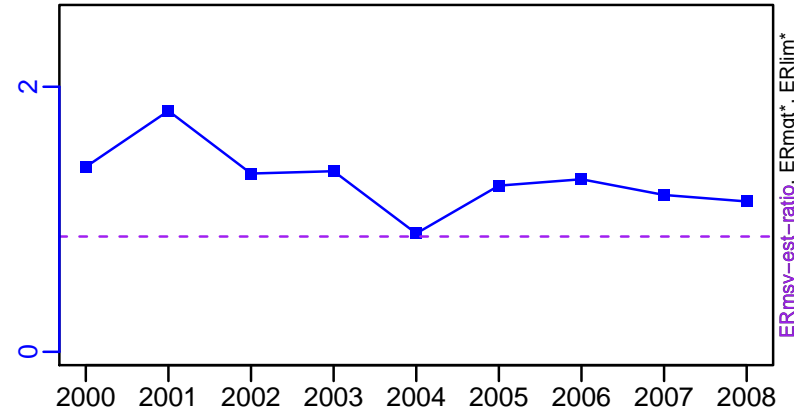
TN \*



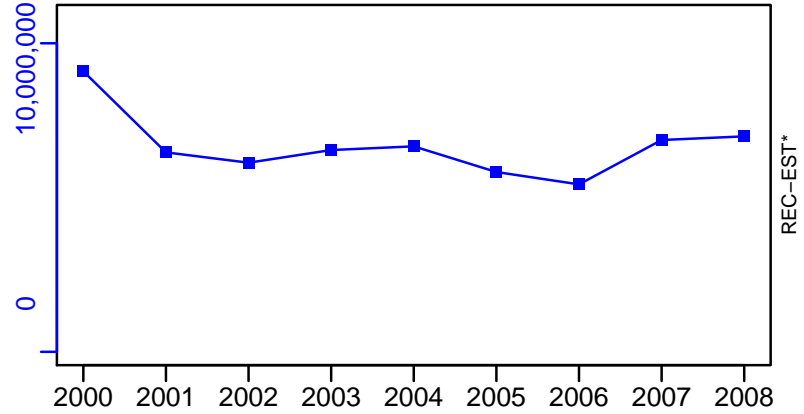
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

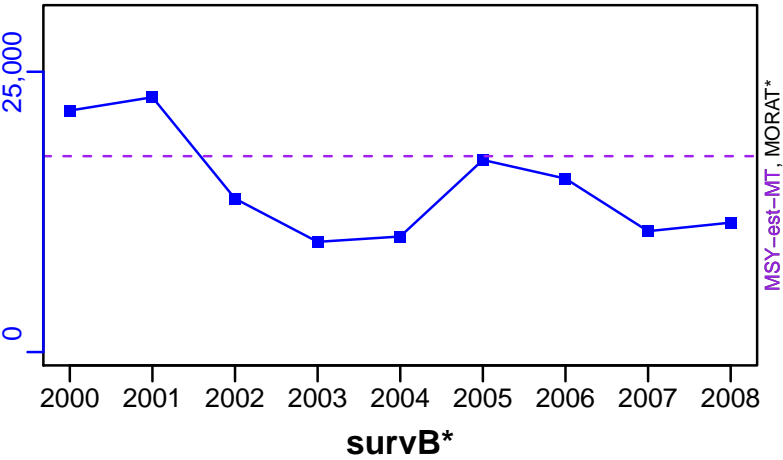


R-E00 (2000–2008–OSIO)



European pilchard Aegean Sea [SARDMEDGSA22]

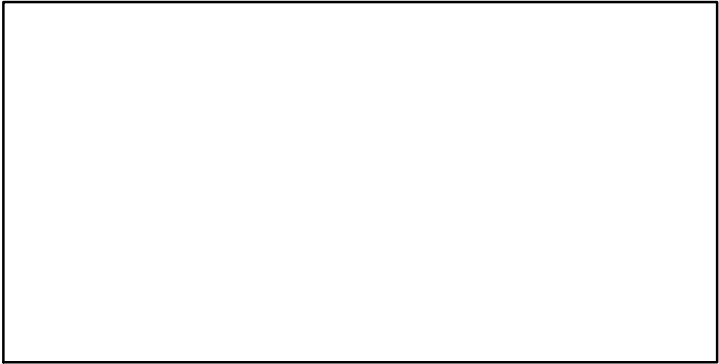
TC-MT, TL\*, RecC\* (2000-2008-OSIO)



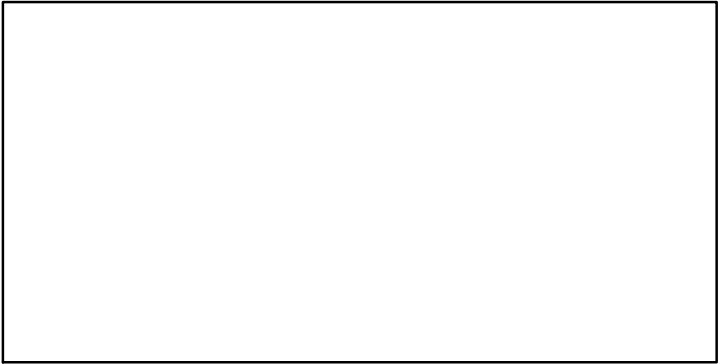
TAC\*, Cpair\*, Cadv\*



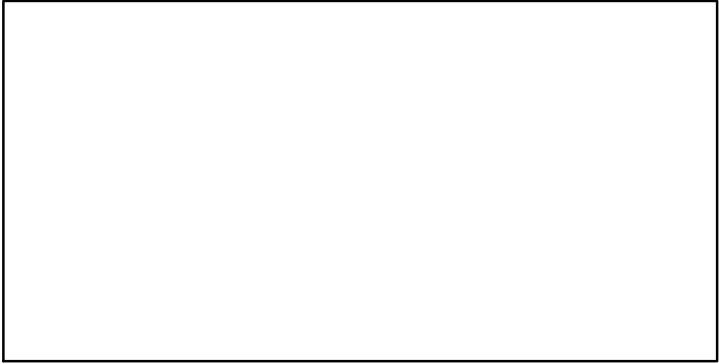
survB\*



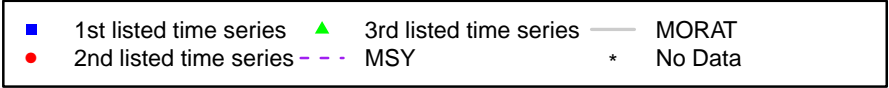
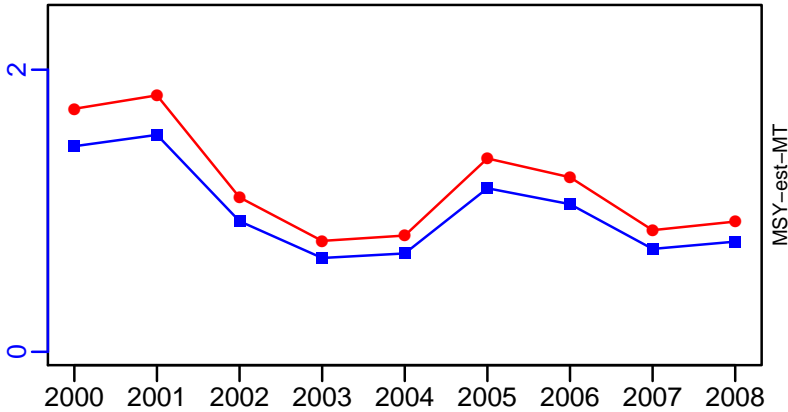
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2000-2008-OSIO)



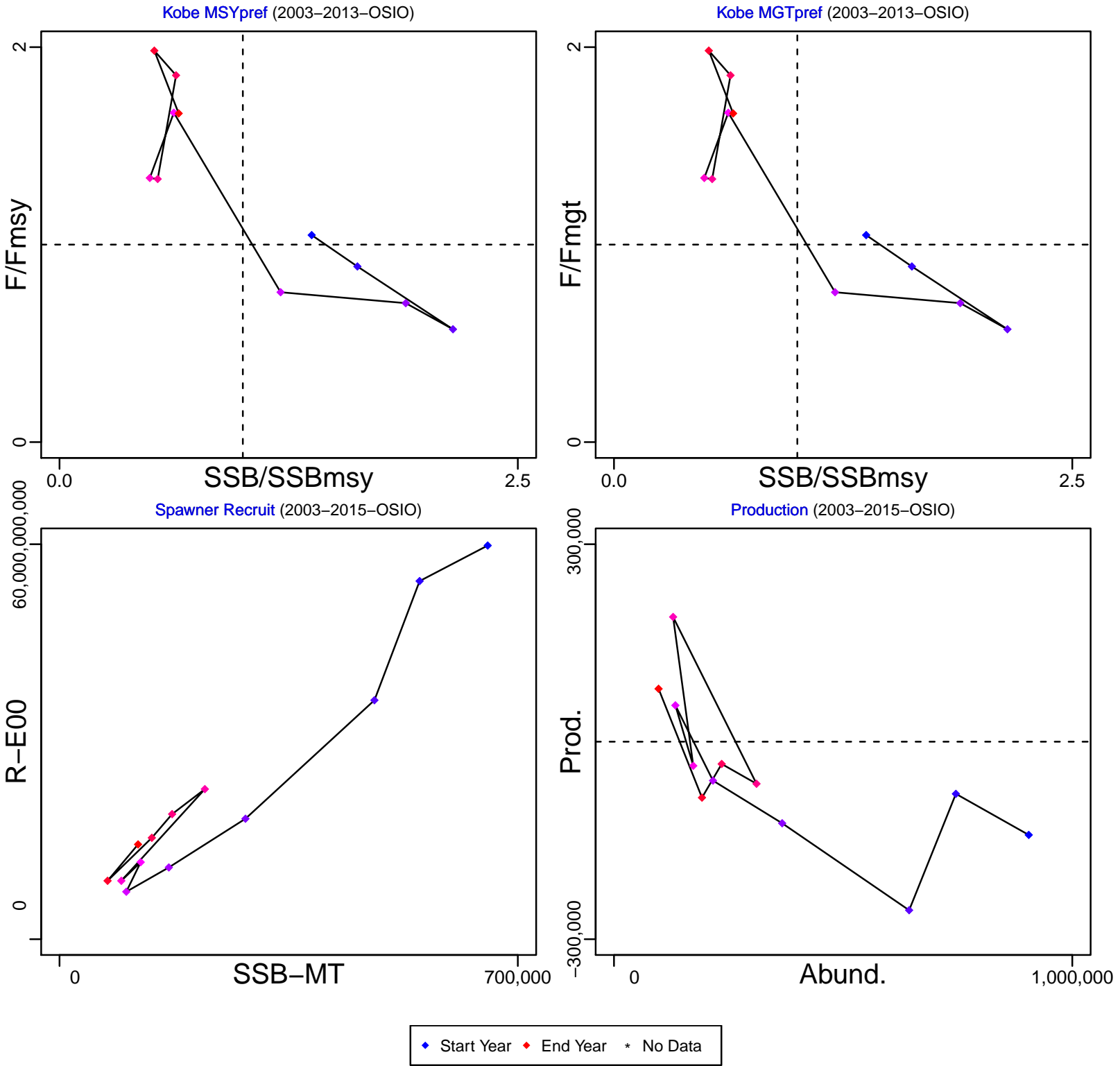
## European pilchard Northern Spain [SARDMEDGSA6]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA6-2003-2015-OSIO
<b>Area</b>	Northern Spain
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2013	48,922
<b>Fmsy</b>	Fmsy-1/yr	2015	0.7
<b>ERmsy</b>	ERmsy-est-ratio	2013	0.19
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.7
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2013	14,319
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

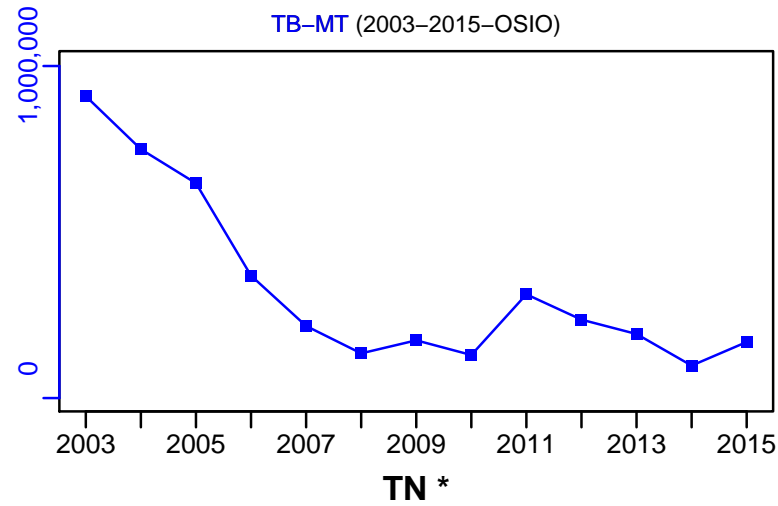
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	168,000	-	-
<b>SSB</b>	SSB-MT	2015	120,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$1.44 \times 10^{10}$	-	-
<b>F</b>	F-1/yr	2015	1.77	-	-
<b>ER</b>	ER-calc-ratio	2015	0.038	-	-
<b>TC</b>	TC-MT	2015	6310		
<b>TL</b>	TL-MT	2015	6310		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2013	0.65		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	2.529		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2013	1.045		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	2.529		
<b>ER/ERmgt</b>	-	-	-		

# European pilchard Northern Spain [SARDMEDGSA6]

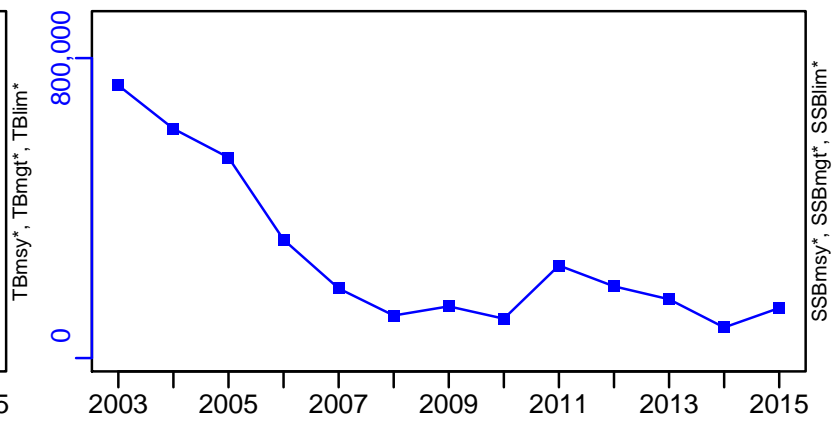


# European pilchard Northern Spain [SARDMEDGSA6]

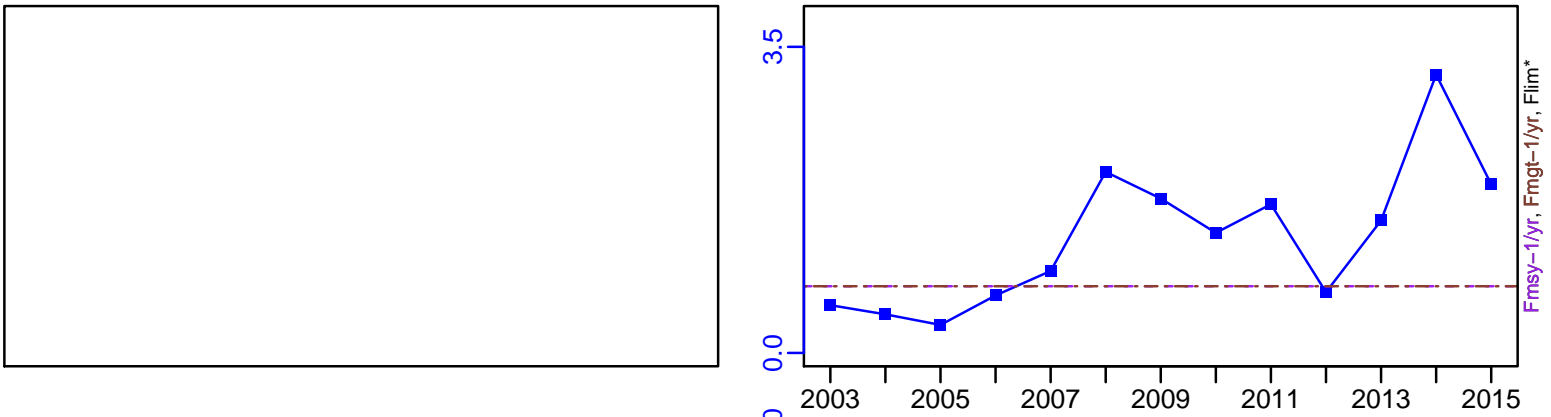
TB-MT (2003–2015–OSIO)



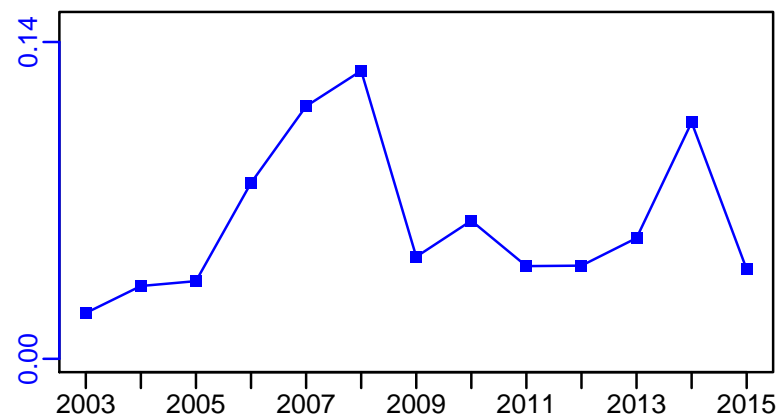
SSB-MT (2003–2015–OSIO)



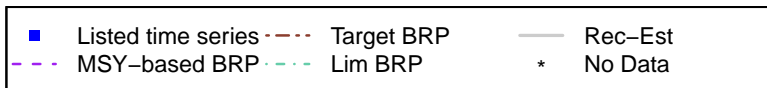
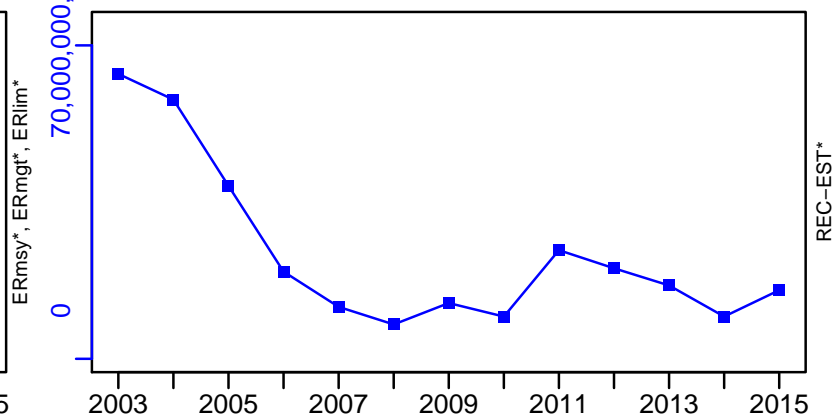
F-1/yr (2003–2015–OSIO)



ER-calc-ratio (2003–2015–OSIO)

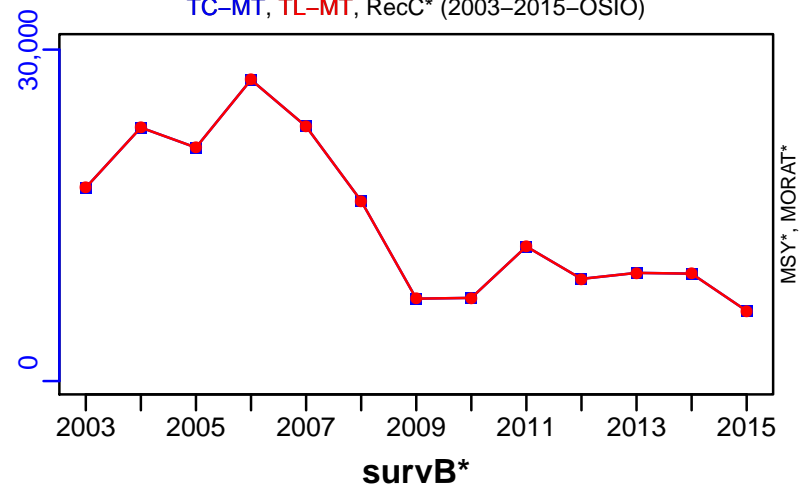


R-E00 (2003–2015–OSIO)



# European pilchard Northern Spain [SARDMEDGSA6]

TC-MT, TL-MT, RecC\* (2003–2015–OSIO)



TAC\*, Cpair\*, Cadv\*



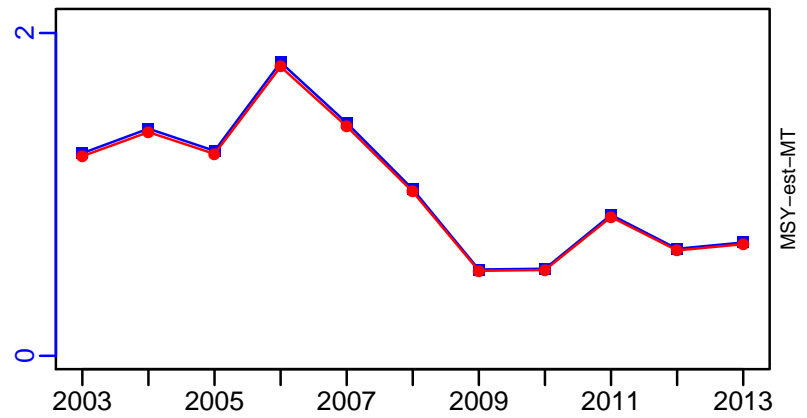
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2003–2013–OSIO)



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

## Sardine Gulf of Lions [SARDMEDGSA7]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	IFREMER-SARDMEDGSA7-1993-2012-BANOBI
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	French Research Institute for Exploitation of the Sea
<b>Asmts in RAM</b>	2012

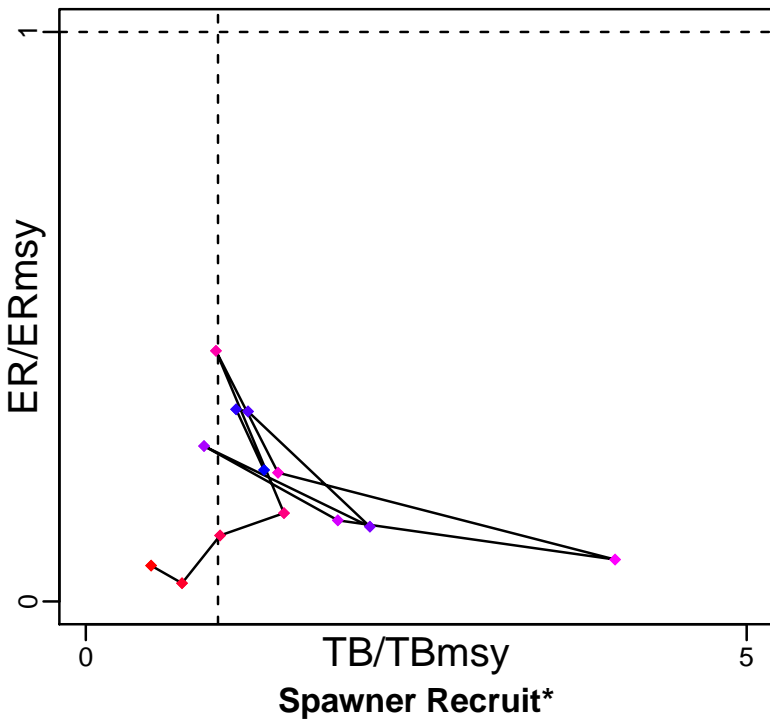
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	57,689
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.436
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	25,156
<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	2012	115,000	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-MT	2012	57,500	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2012	0.027	-	-
<b>TC</b>	TC-MT	2012	782		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	1.993		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.063		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

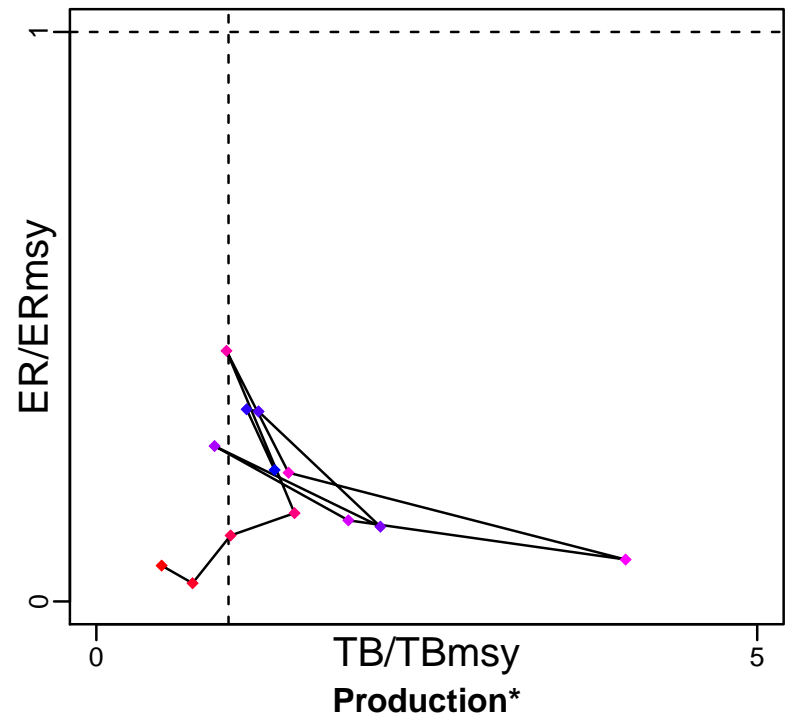


# Sardine Gulf of Lions [SARDMEDGSA7]

Kobe MSYpref (1993–2012–BANOB1)



Kobe MGTpref (1993–2012–BANOB1)

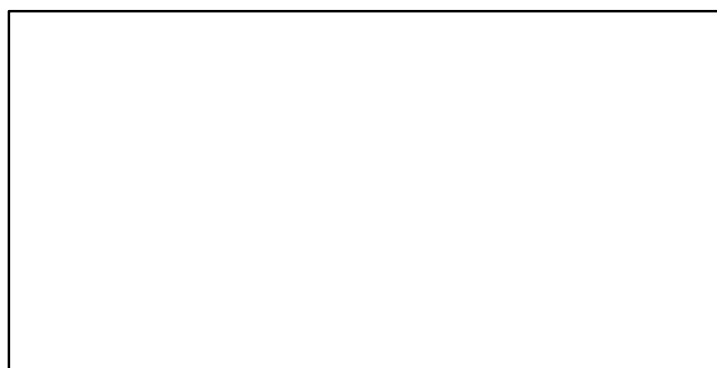
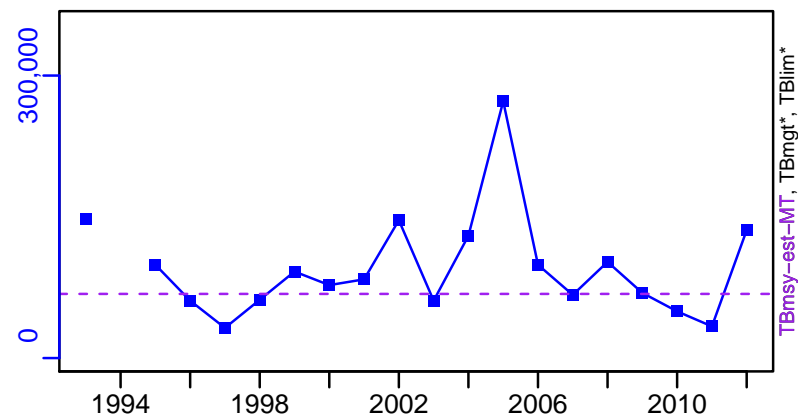


◆ Start Year ◆ End Year \* No Data

# Sardine Gulf of Lions [SARDMEDGSA7]

TB-MT (1993–2012–BANOB)

SSB\*



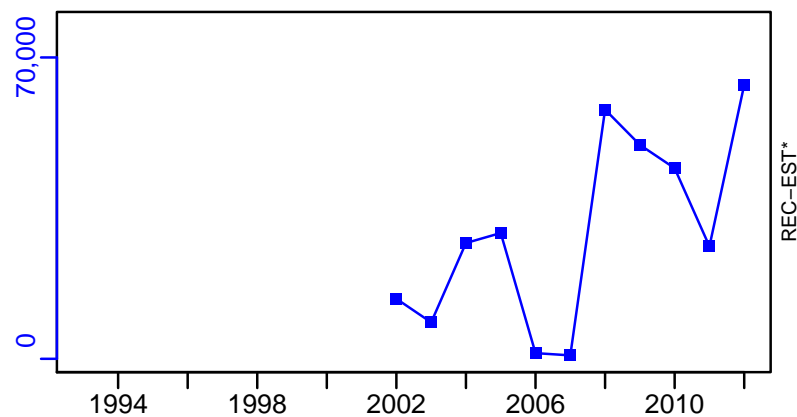
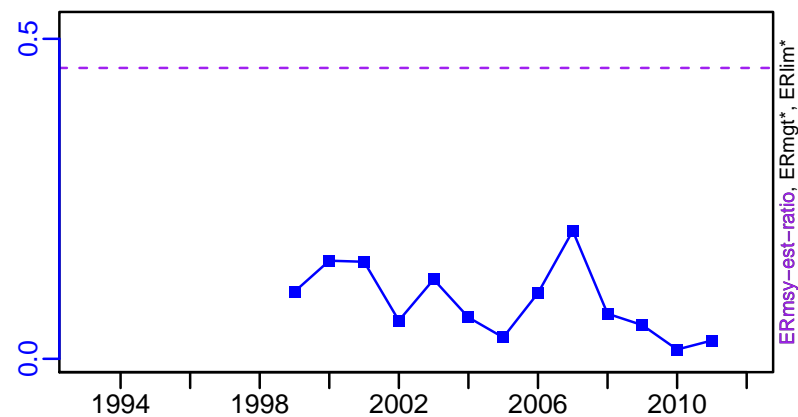
TN \*

F\*



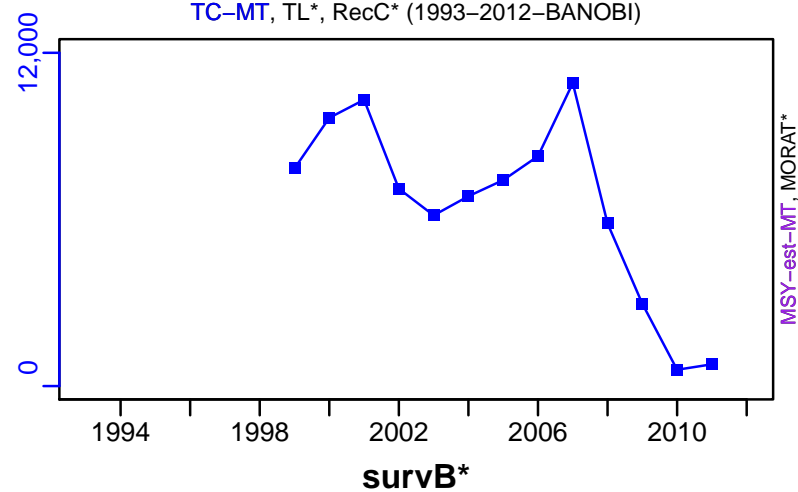
ER-calc-ratio (1993–2012–BANOB)

R-MT (1993–2012–BANOB)



# Sardine Gulf of Lions [SARDMEDGSA7]

TC-MT, TL\*, RecC\* (1993–2012–BANOB)



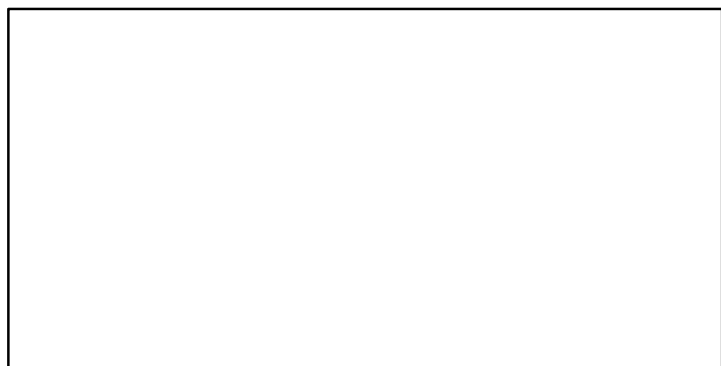
TAC\*, Cpair\*, Cadv\*



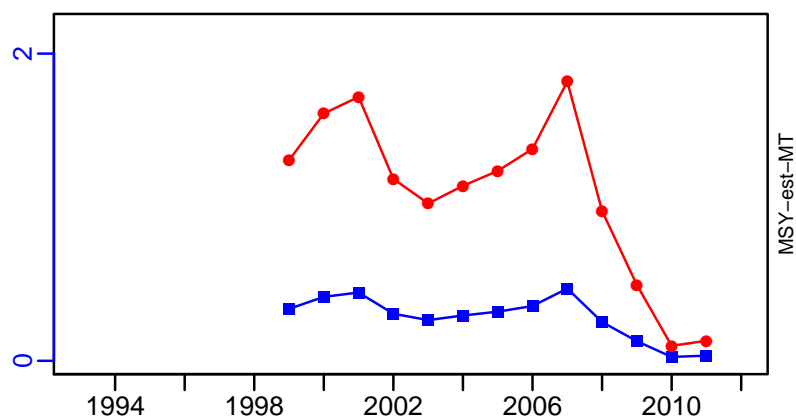
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1993–2012–BANOB)



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

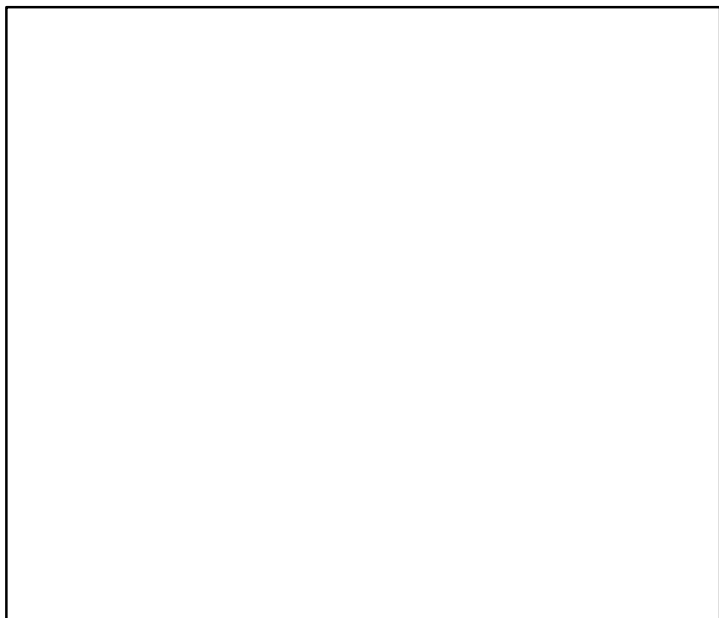
## European pilchard Ligurian and North Tyrrhenian Sea [SARDMEDGSA9]

Metadata	
<b>Scientific Name</b>	Sardina pilchardus
<b>Current Assess ID</b>	STECF-SARDMEDGSA9-2006-2012-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

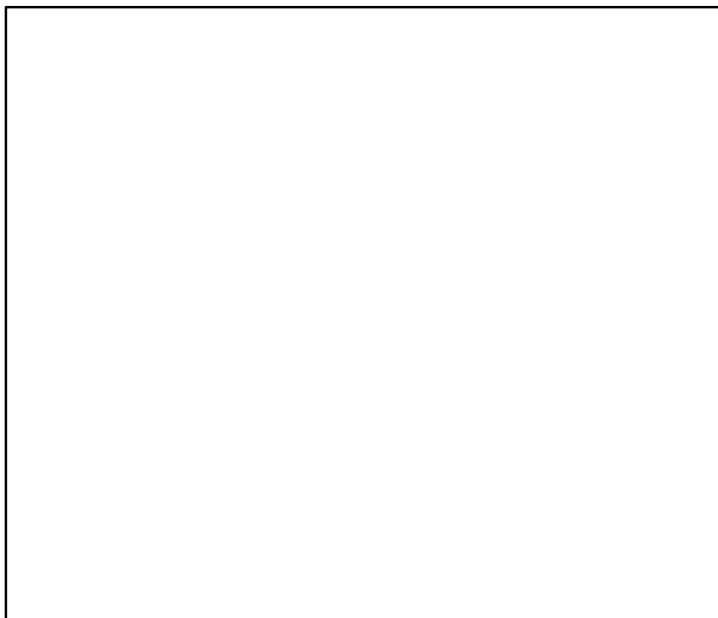
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	1730		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



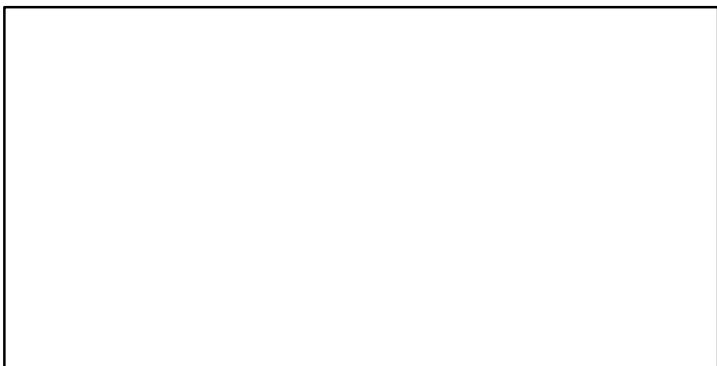
**Production\***



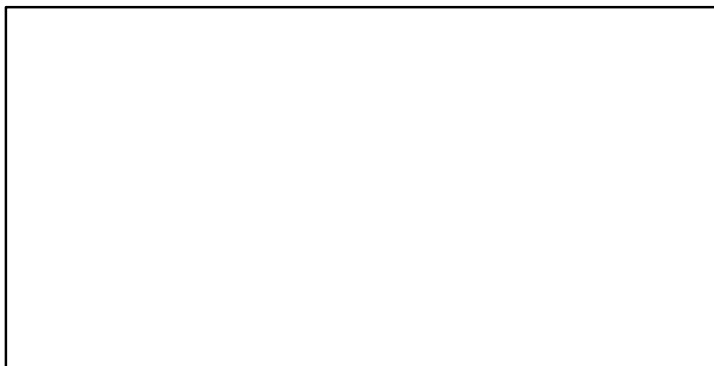
◆ Start Year ◆ End Year \* No Data

European pilchard Ligurian and North Tyrrhenian Sea [SARDMEDGSA9]

**TB\***



**SSB\***



**TN \***



**F\***



**ER\***

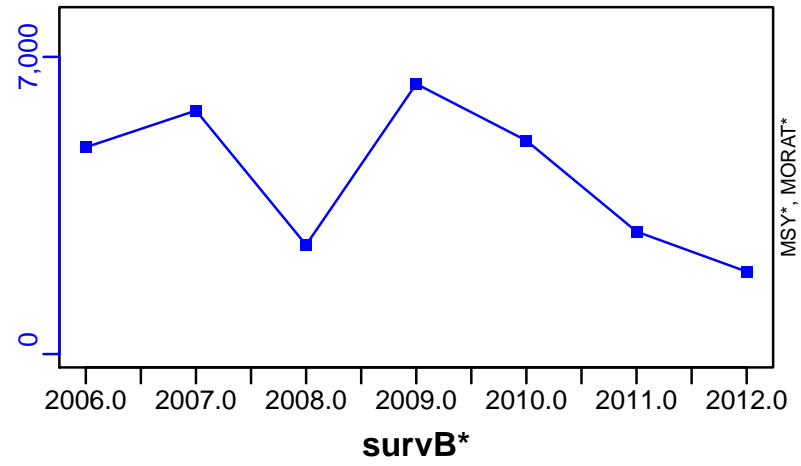


**Recruits\***



European pilchard Ligurian and North Tyrrhenian Sea [SARDMEDGSA9]

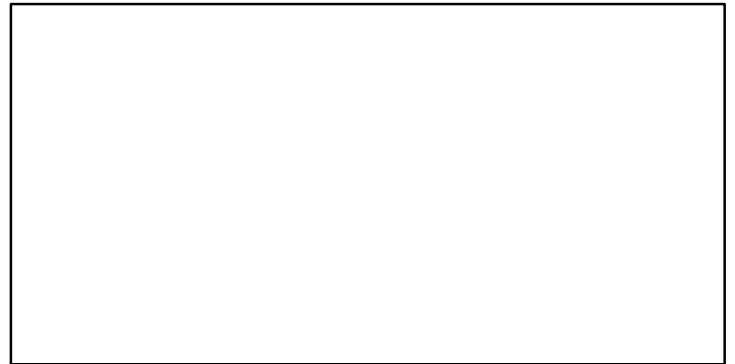
TC-MT, TL\*, RecC\* (2006–2012–OSIO)



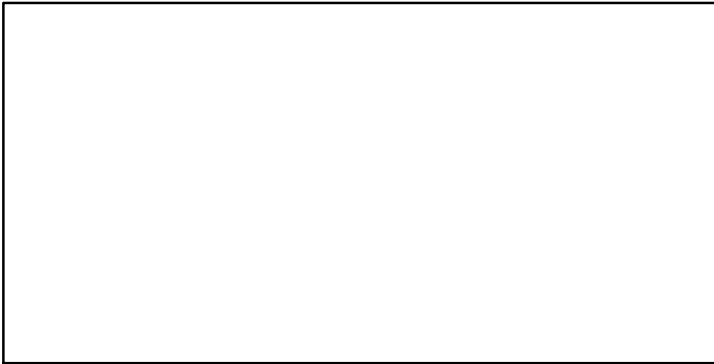
TAC\*, Cpair\*, Cadv\*



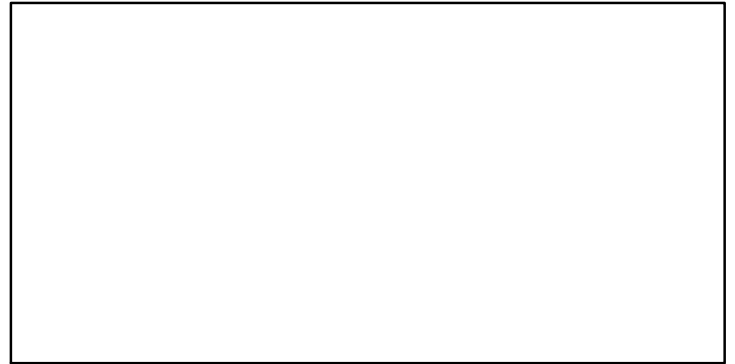
CPUE\*



EFFORT\*



CdivMSY\*



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

## Spiny dogfish Black Sea [SDOGBLKGSA29]

Metadata	
<b>Scientific Name</b>	Squalus acanthias
<b>Current Assess ID</b>	STECF-SDOGBLKGSA29-1989-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 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>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.08
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.15
<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-MT	2014	693	-	12+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	62,900	-	-
<b>F</b>	F-1/yr	2014	0.24	-	-
<b>ER</b>	ER-calc-ratio	2014	0.011	-	-
<b>TC</b>	TC-MT	2014	75		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2014	3		
<b>ER/ERmgt</b>	-	-	-		

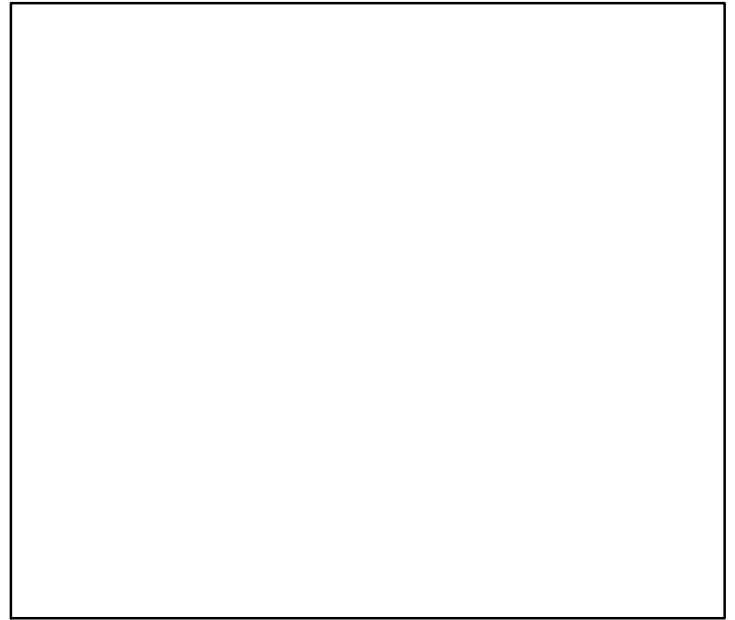


Spiny dogfish Black Sea [SDOGBLKGA29]

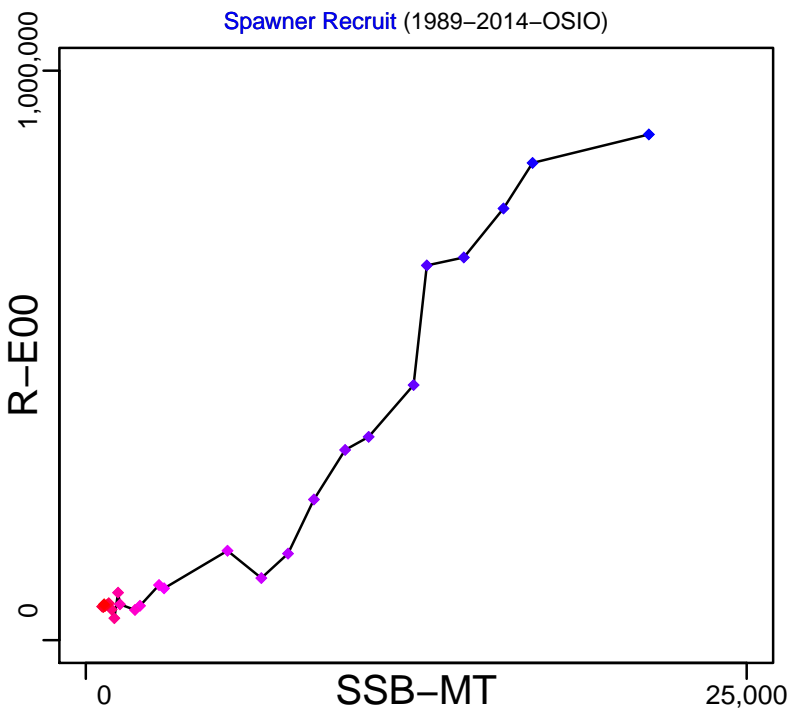
Kobe MSY\*



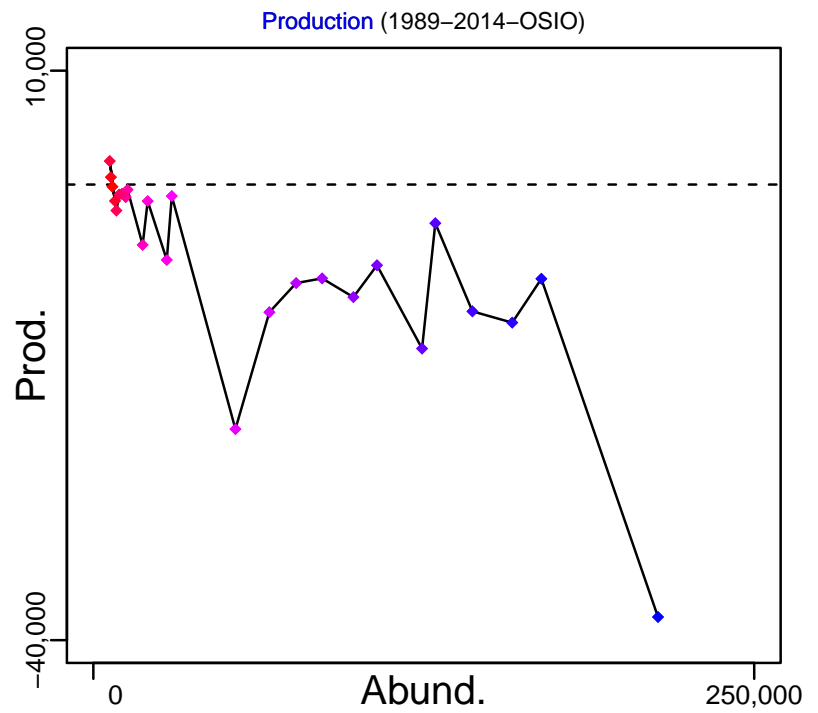
Kobe MGT\*



Spawner Recruit (1989–2014–OSIO)



Production (1989–2014–OSIO)



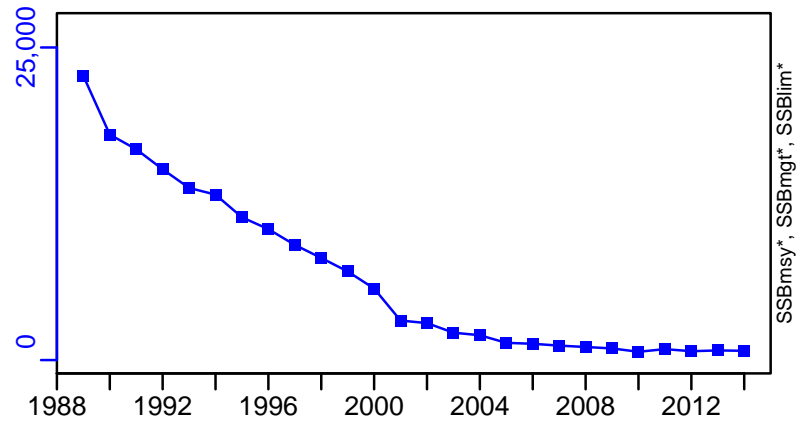
◆ Start Year ◆ End Year \* No Data

# Spiny dogfish Black Sea [SDOGBLKGSA29]

TB\*



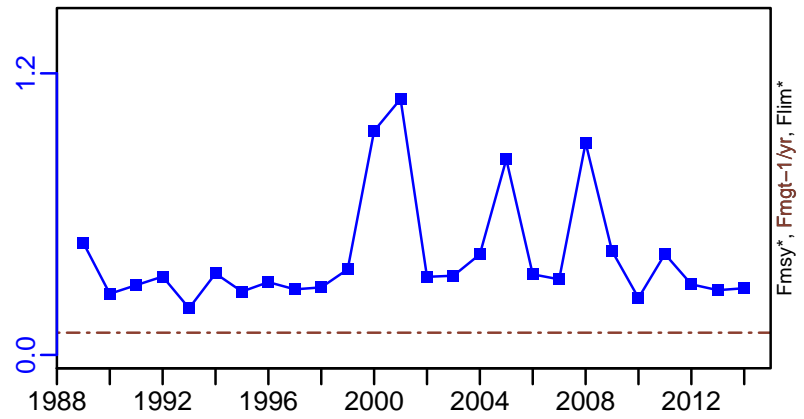
SSB-MT (1989–2014–OSIO)



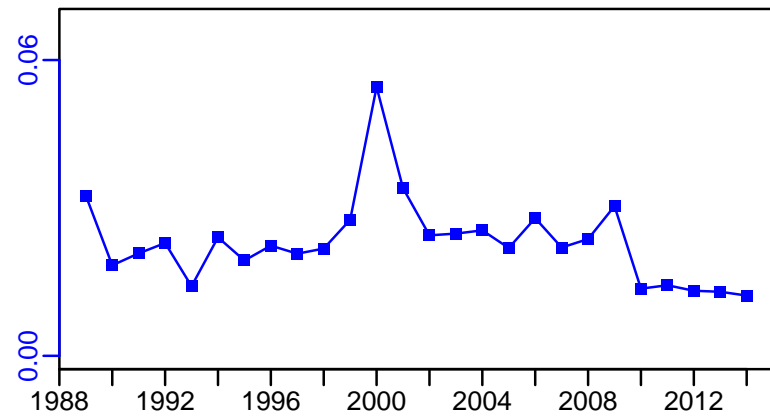
TN \*



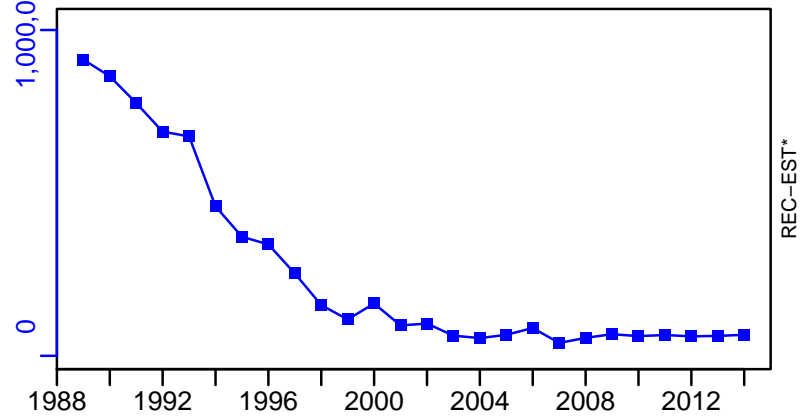
F-1/yr (1989–2014–OSIO)



ER-calc-ratio (1989–2014–OSIO)

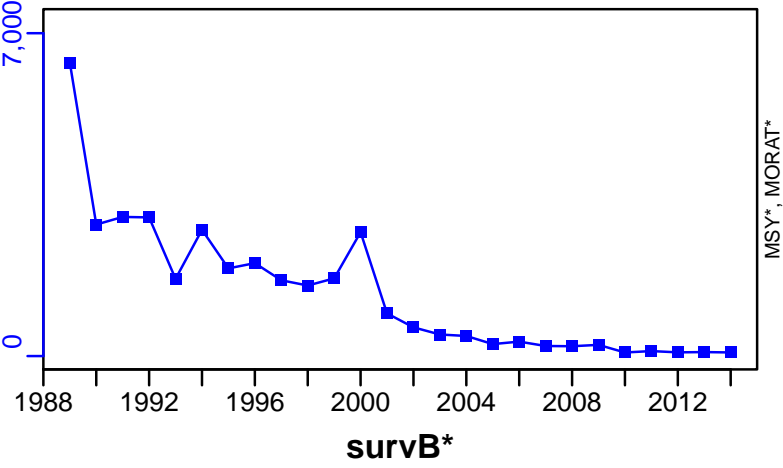


R-E00 (1989–2014–OSIO)



Spiny dogfish Black Sea [SDOGBLKGSA29]

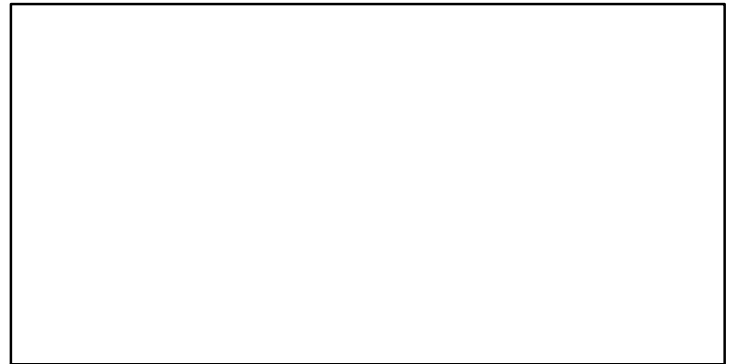
TC-MT, TL\*, RecC\* (1989–2014–OSIO)



TAC\*, Cpair\*, Cadv\*



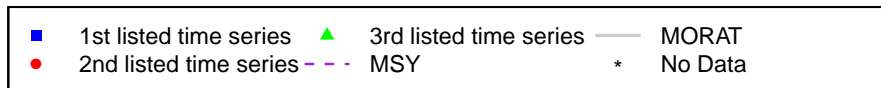
CPUE\*



EFFORT\*



CdivMSY\*



## Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

Metadata	
<b>Scientific Name</b>	Squilla mantis
<b>Current Assess ID</b>	STECF-SMSHRMPMEDGSA10-2011-2011-OSIO
<b>Area</b>	South Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011

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>	Fmgt-1/yr	2011	0.41
<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>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2011	1.08	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2011	387		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2011	2.634		
<b>ER/ERmgt</b>	-	-	-		

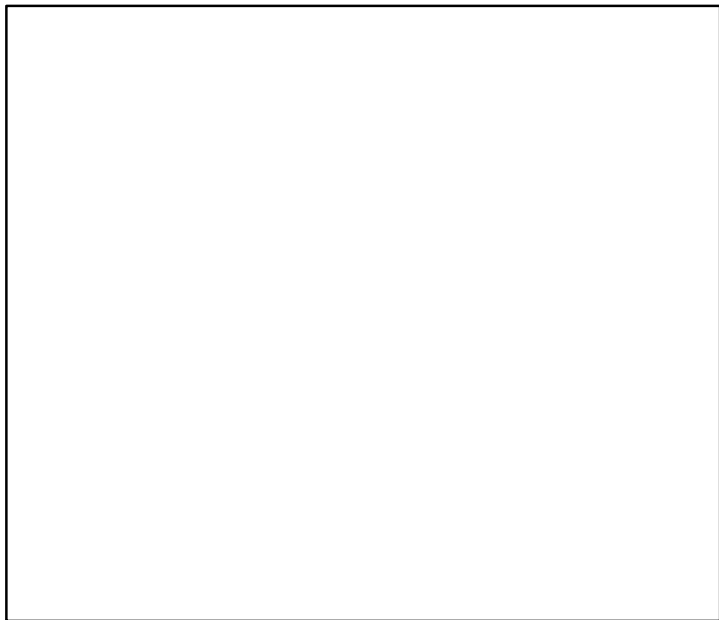
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

TB\*



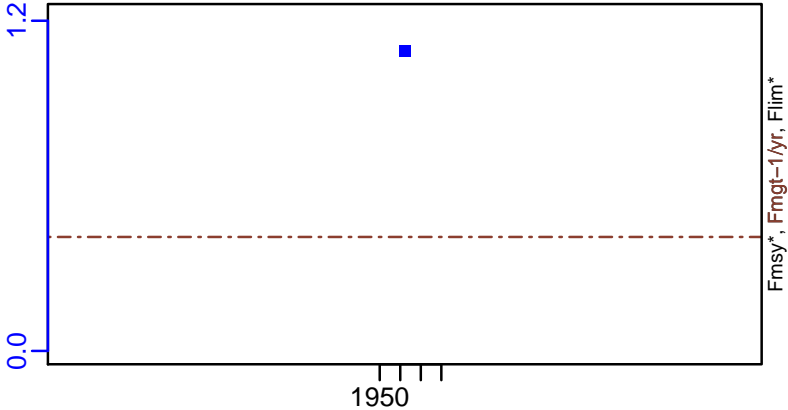
SSB\*



TN \*



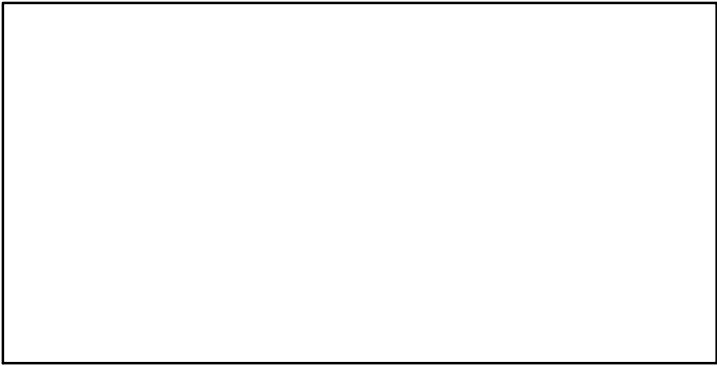
F-1/yr (2011-2011-OSIO)



ER\*



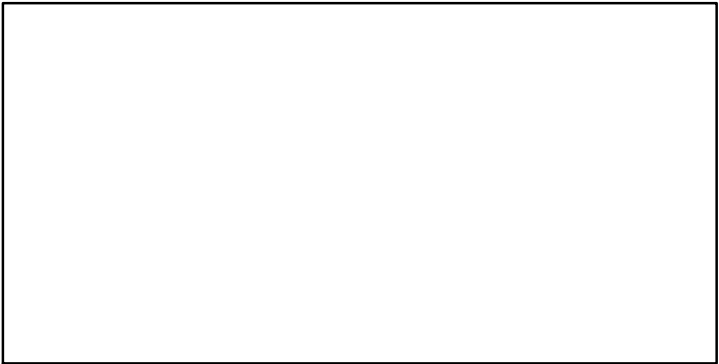
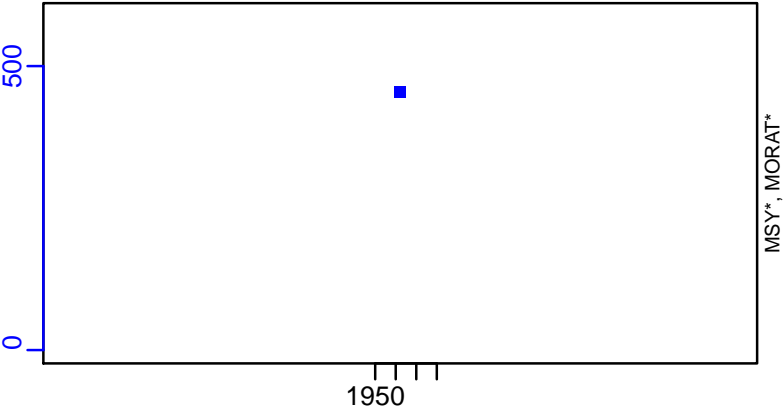
Recruits\*



Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

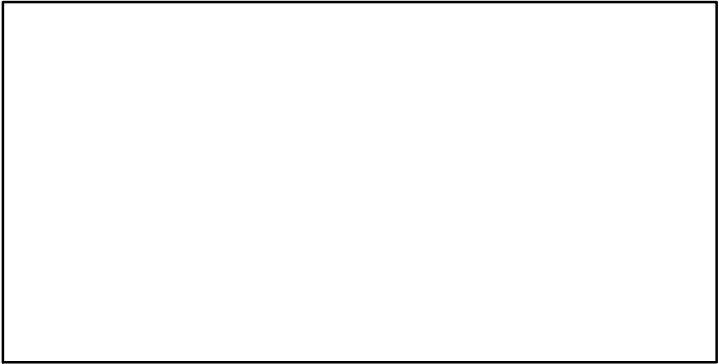
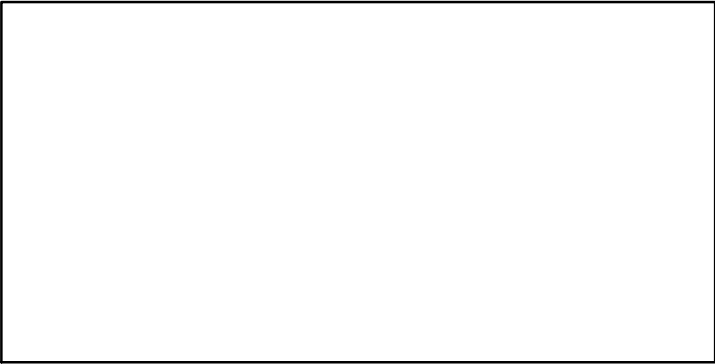
TC-MT, TL\*, RecC\* (2011-2011-OSIO)

TAC\*, Cpair\*, Cadv\*



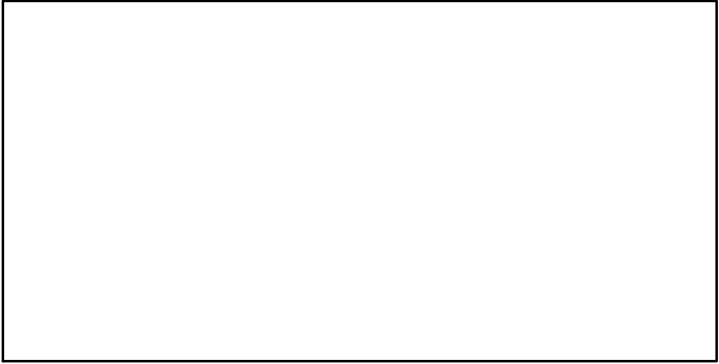
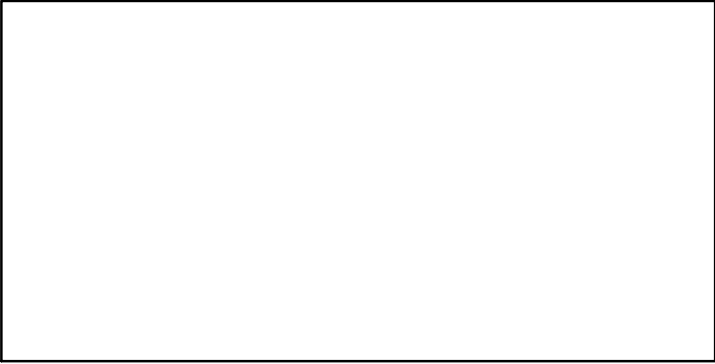
survB\*

CPUE\*



EFFORT\*

CdivMSY\*



## Spottail mantis shrimp Adriatic Sea (GSA 17,18) [SMHRMPMEDGSA17-18]

Metadata	
<b>Scientific Name</b>	Squilla mantis
<b>Current Assess ID</b>	STECF-SMHRMPMEDGSA17-18-2008-2014-OSIO
<b>Area</b>	Adriatic Sea (GSA 17,18)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014

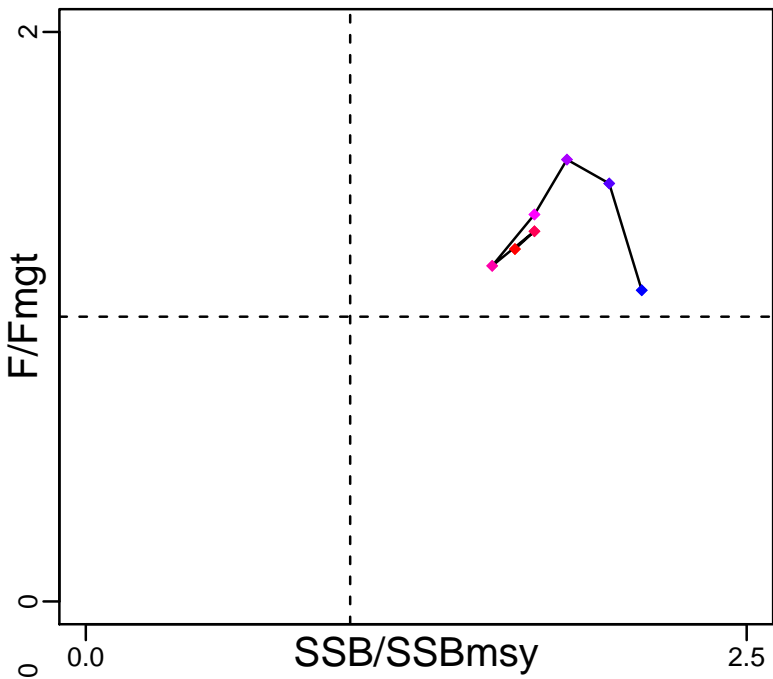
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	8131
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.208
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.56
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	6220
<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>	SSB-MT	2014	13,200	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.12 \times 10^9$	-	-
<b>F</b>	F-1/yr	2014	0.693	-	-
<b>ER</b>	ER-calc-ratio	2014	0.088	-	-
<b>TC</b>	TC-MT	2014	4290		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.623		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.425		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.238		
<b>ER/ERmgt</b>	-	-	-		

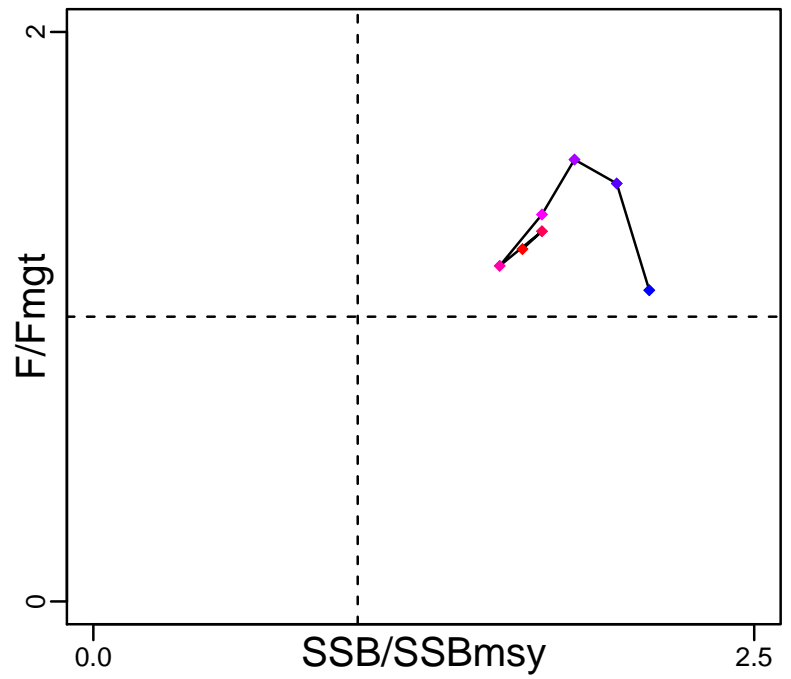


# Spottail mantis shrimp Adriatic Sea (GSA 17,18) [SMSHRMPMEDGSA17-18]

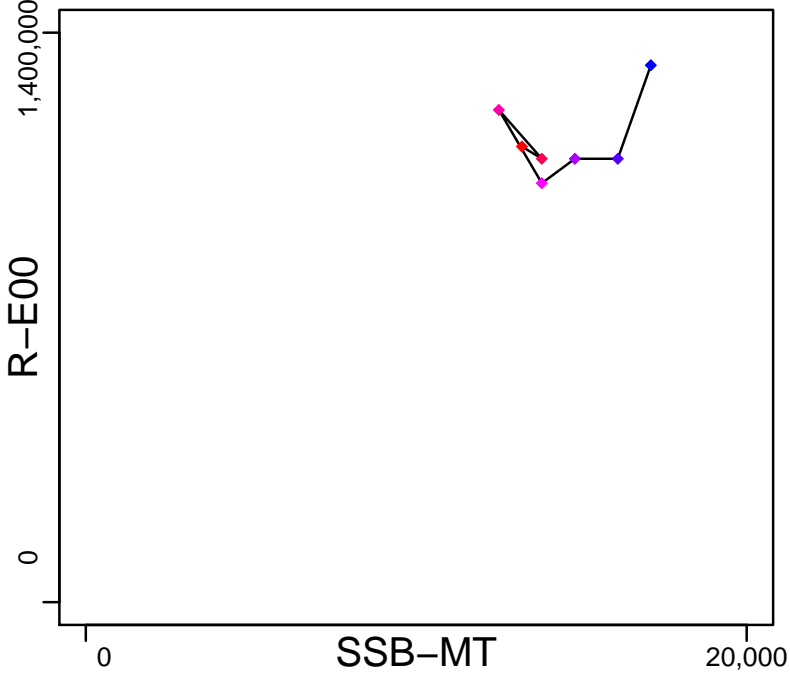
Kobe MSYpref (2008–2014–OSIO)



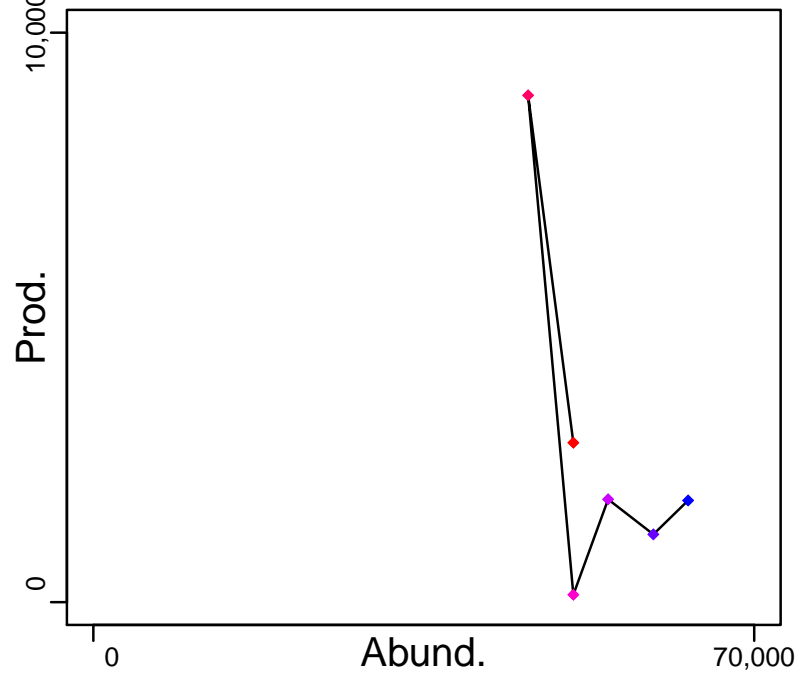
Kobe MGTpref (2008–2014–OSIO)



Spawner Recruit (2008–2014–OSIO)



Production (2008–2014–OSIO)



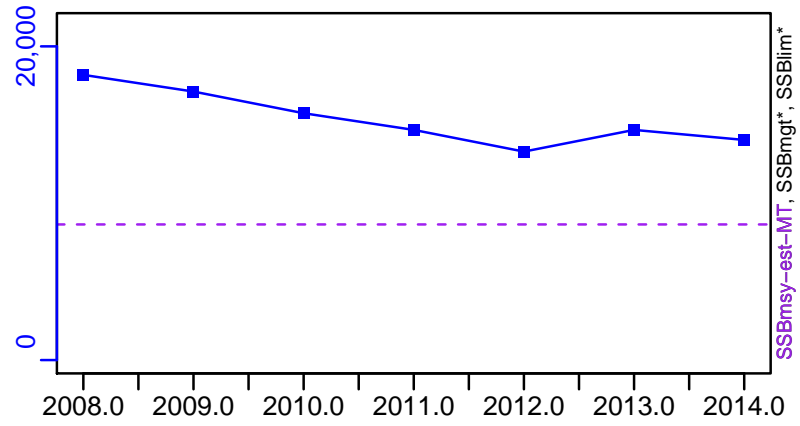
◆ Start Year ◆ End Year \* No Data

Spottail mantis shrimp Adriatic Sea (GSA 17,18) [SMHRMPMEDGSA17-18]

TB\*



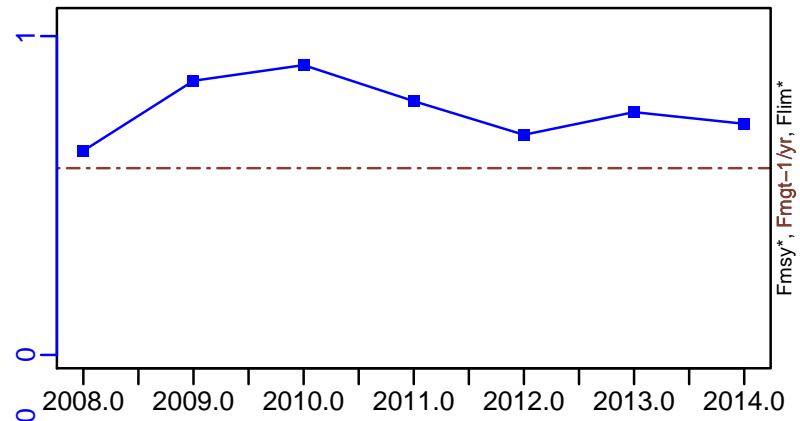
SSB-MT (2008-2014-OSIO)



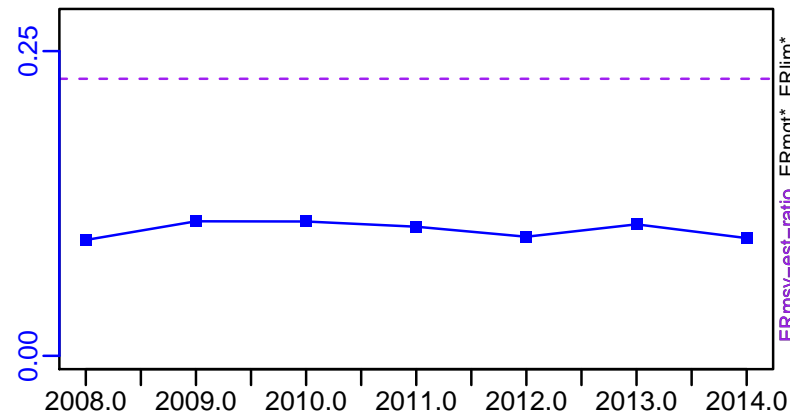
TN \*



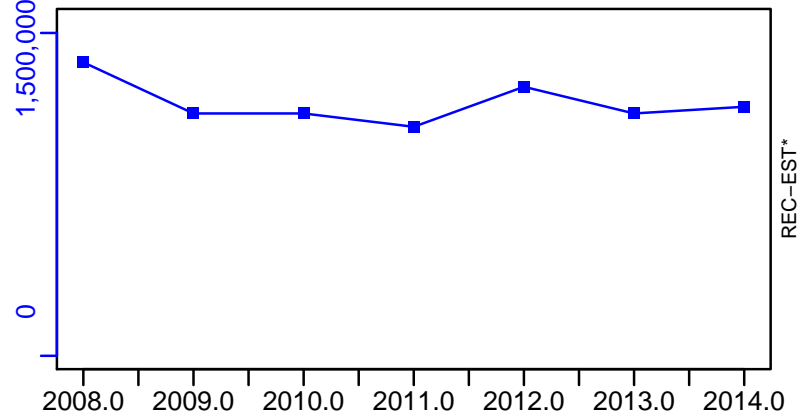
F-1/yr (2008-2014-OSIO)



ER-calc-ratio (2008-2014-OSIO)

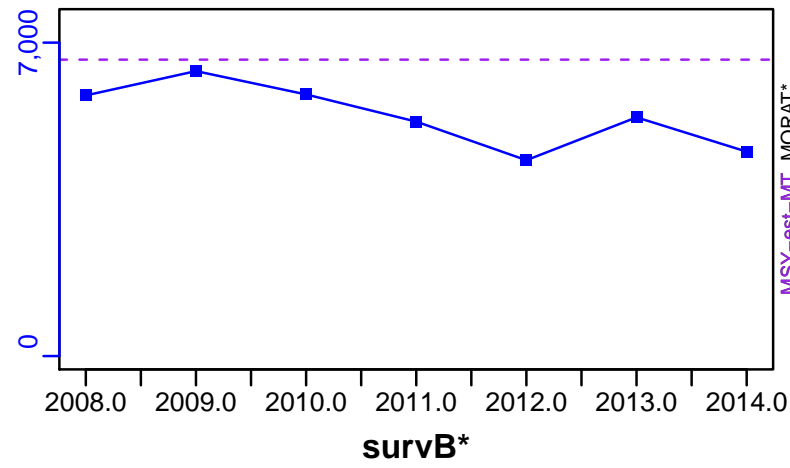


R-E00 (2008-2014-OSIO)



# Spottail mantis shrimp Adriatic Sea (GSA 17,18) [SMSHRMPMEDGSA17-18]

TC-MT, TL\*, RecC\* (2008-2014-OSIO)



TAC\*, Cpair\*, Cadv\*



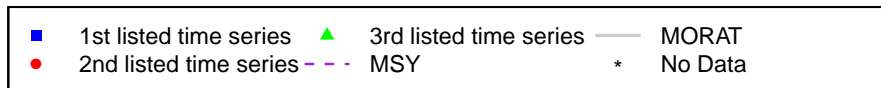
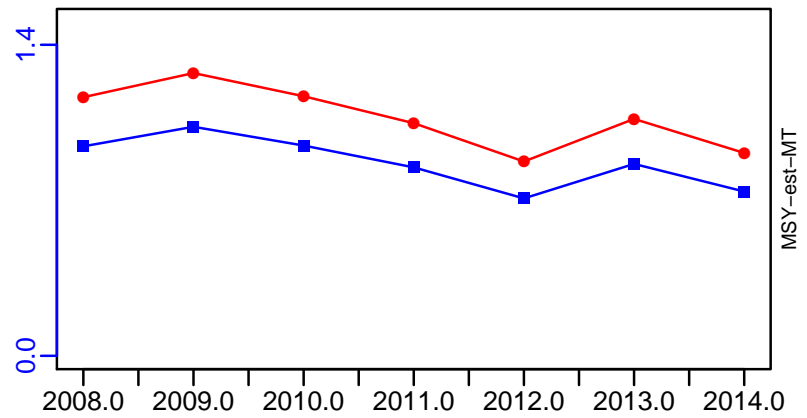
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2008-2014-OSIO)



## Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

Metadata	
<b>Scientific Name</b>	Squilla mantis
<b>Current Assess ID</b>	STECF-SMSHRMPMEDGSA9-2004-2010-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	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>	Fmgt-1/yr	2010	0.54
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2010	430	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2010	$4.5 \times 10^7$	-	-
<b>F</b>	F-1/yr	2010	1.2	-	-
<b>ER</b>	ER-calc-ratio	2010	0.233	-	-
<b>TC</b>	TC-MT	2010	386		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2010	2.222		
<b>ER/ERmgt</b>	-	-	-		

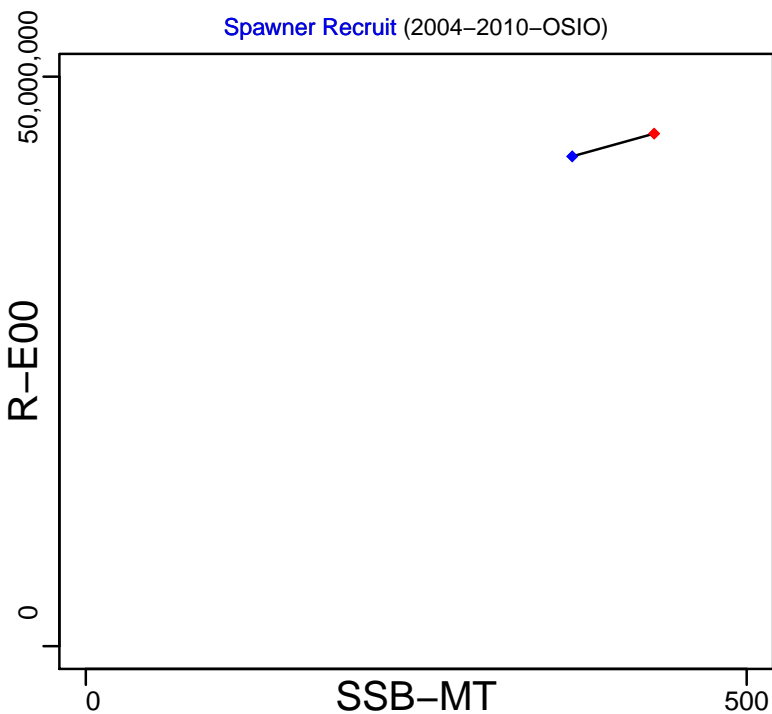
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2004–2010–OSIO)



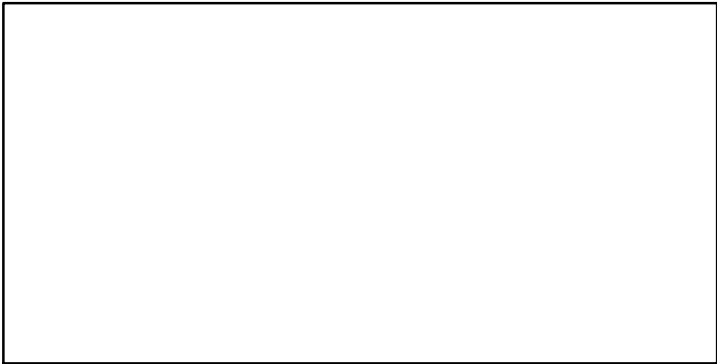
Production\*



◆ Start Year ◆ End Year \* No Data

Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

TB\*



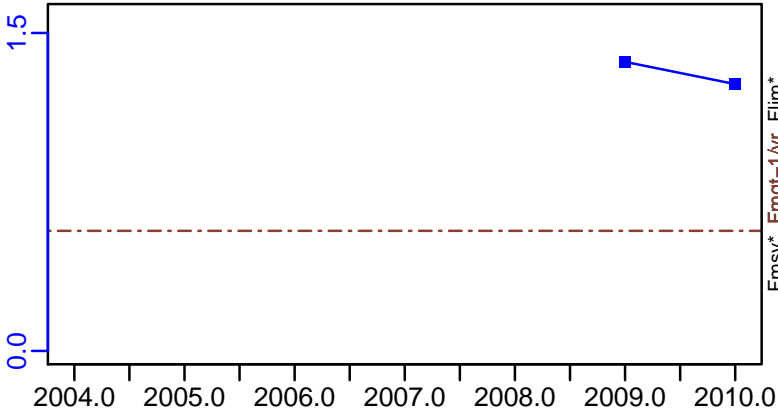
SSB-MT (2004-2010-OSIO)



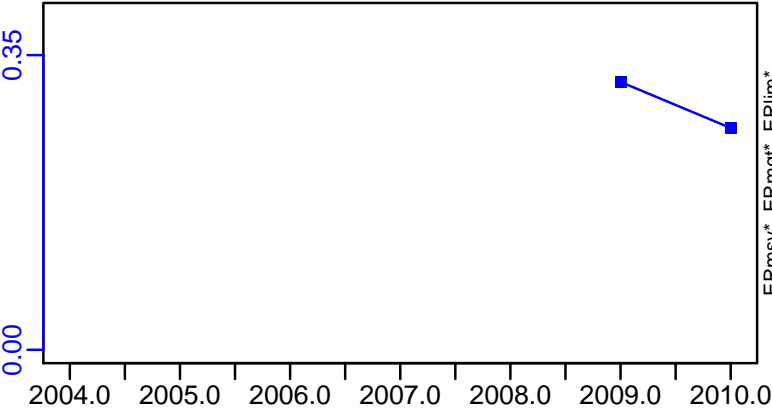
TN \*



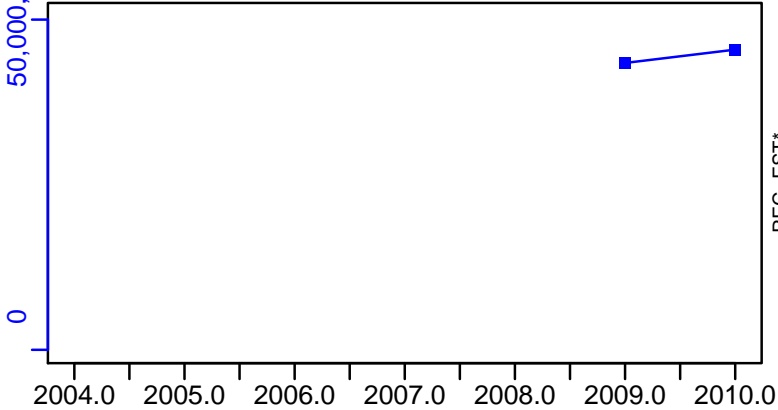
F-1/yr (2004-2010-OSIO)



ER-calc-ratio (2004-2010-OSIO)

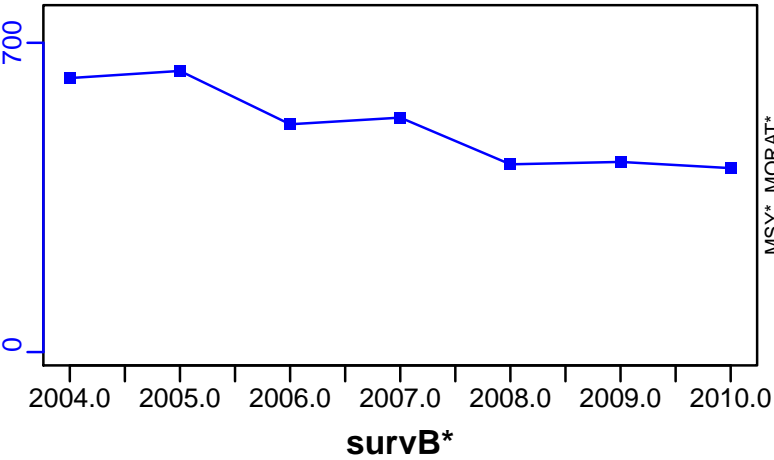


R-E00 (2004-2010-OSIO)



Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

TC-MT, TL\*, RecC\* (2004-2010-OSIO)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



## Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	STECF-SMULLMEDGSA15-16-2002-2012-OSIO
<b>Area</b>	Malta Island and South of Sicily (GSA 15, 16)
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

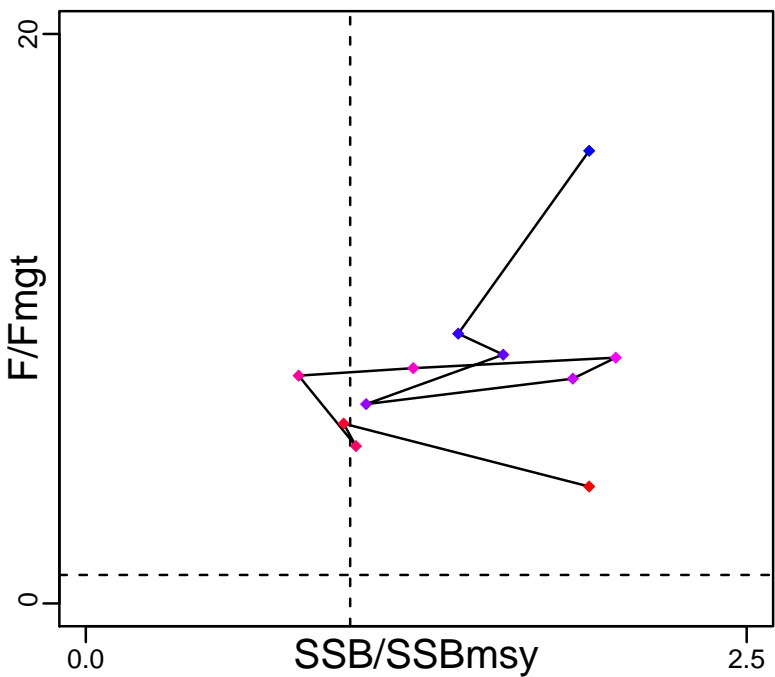
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2012	1292
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.645
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2012	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	2167
<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>	SSB-MT	2012	2460	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	$4.2 \times 10^7$	-	-
<b>F</b>	F-1/yr	2012	0.78	-	-
<b>ER</b>	ER-calc-ratio	2012	0.118	-	-
<b>TC</b>	TC-MT	2012	753		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2012	1.904		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2012	0.183		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	4.105		
<b>ER/ERmgt</b>	-	-	-		

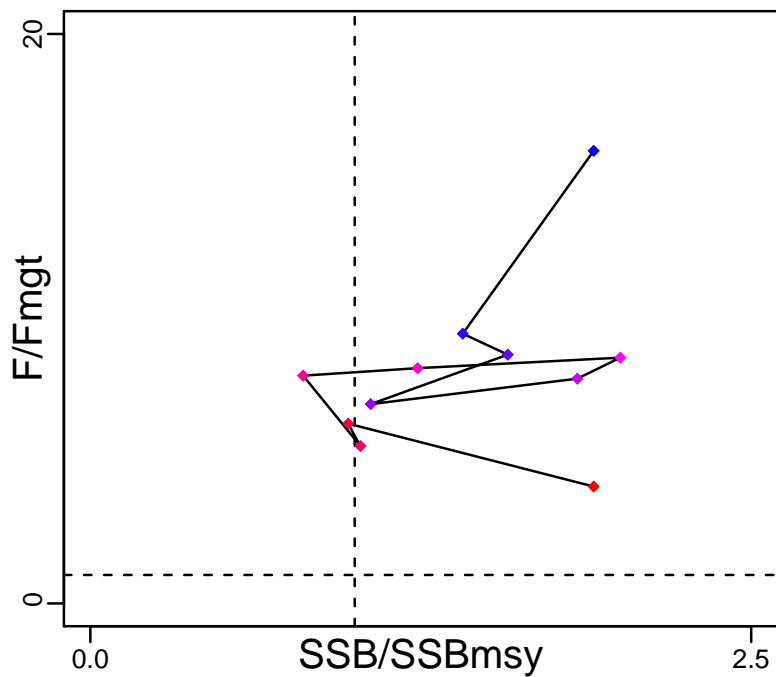


# Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

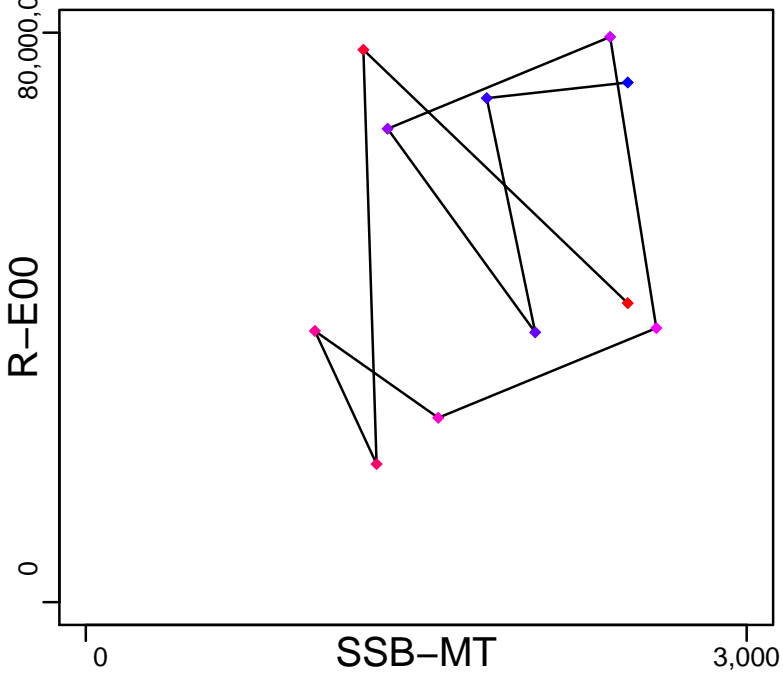
Kobe MSYpref (2002-2012-OSIO)



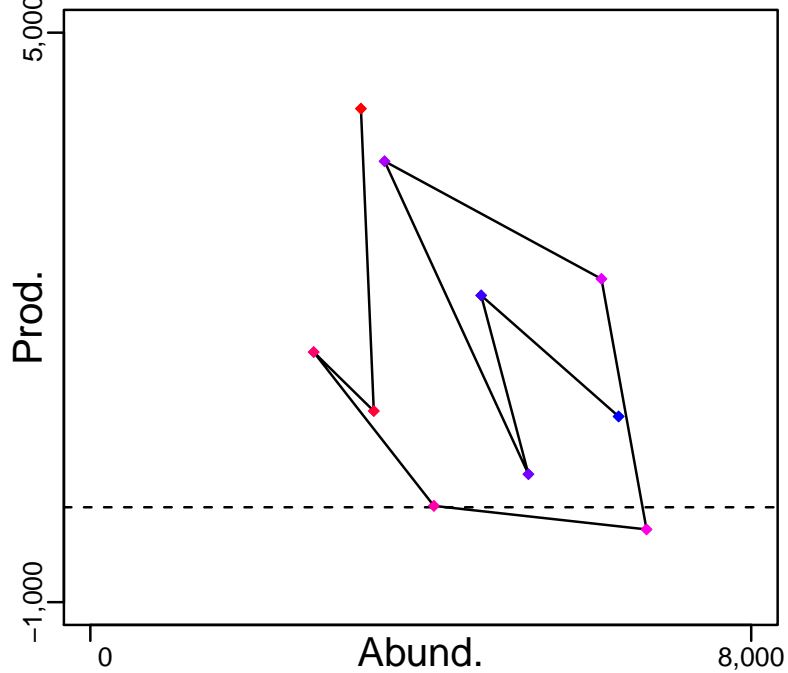
Kobe MGTpref (2002-2012-OSIO)



Spawner Recruit (2002-2012-OSIO)



Production (2002-2012-OSIO)



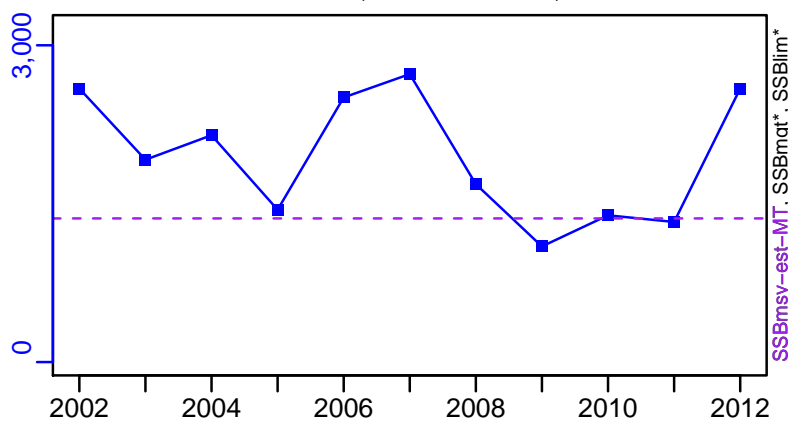
◆ Start Year ◆ End Year \* No Data

Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

TB\*



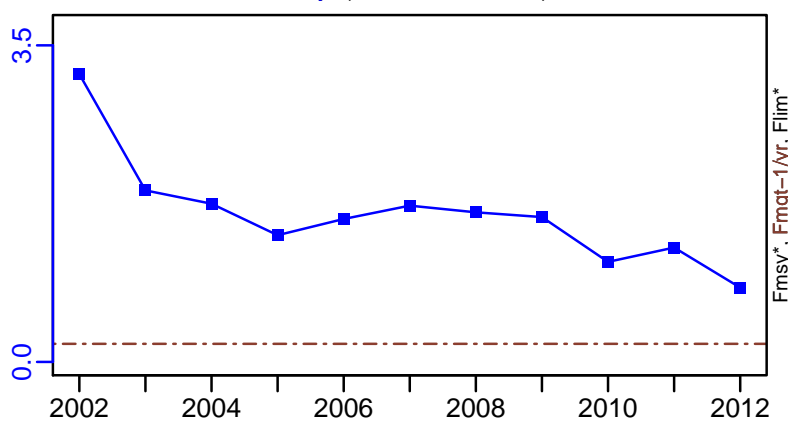
SSB-MT (2002-2012-OSIO)



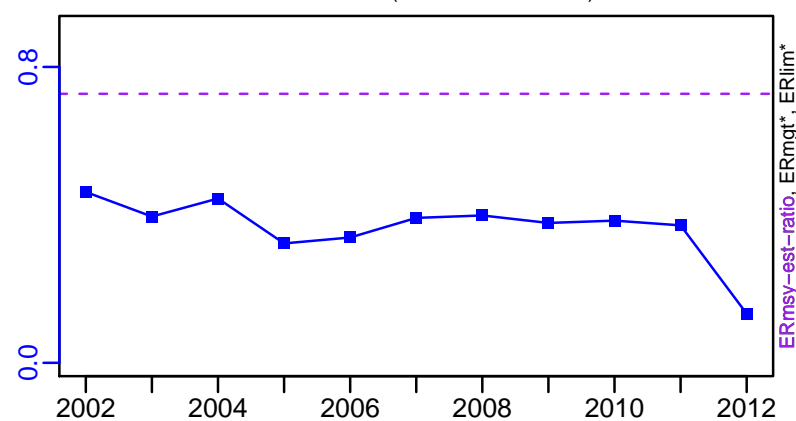
TN \*



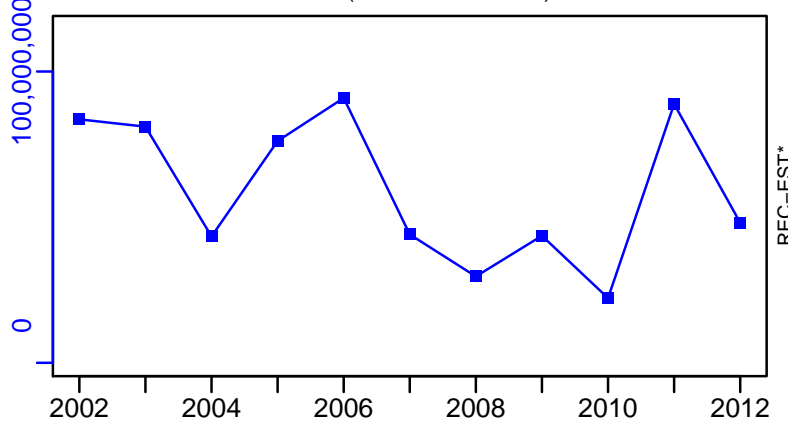
F-1/yr (2002-2012-OSIO)



ER-calc-ratio (2002-2012-OSIO)

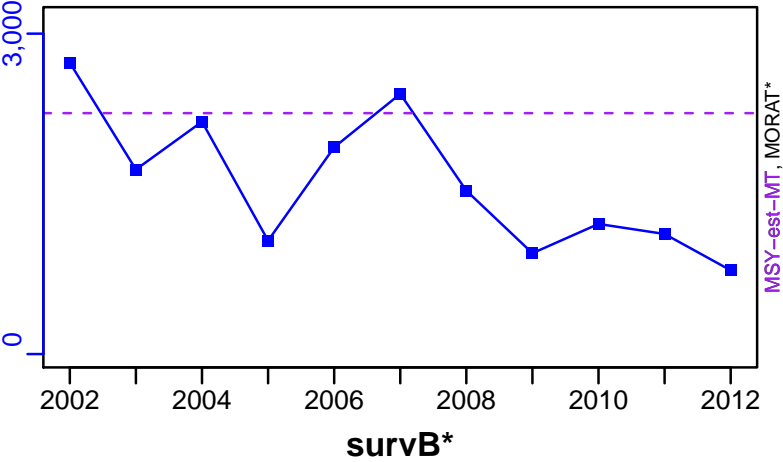


R-E00 (2002-2012-OSIO)

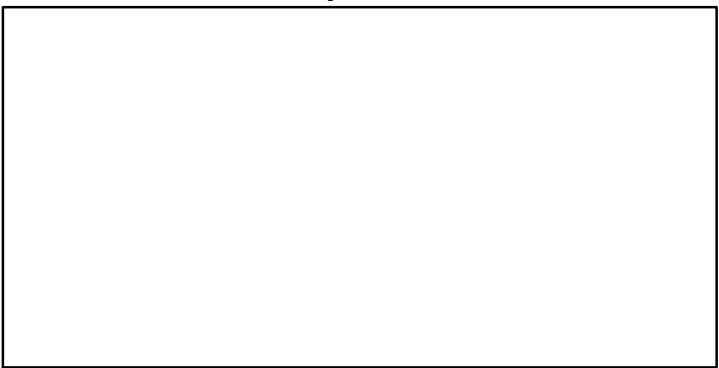


Surmullet Malta Island and South of Sicily (GSA 15, 16) [SMULLMEDGSA15-16]

TC-MT, TL\*, RecC\* (2002-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



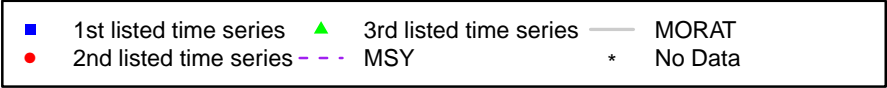
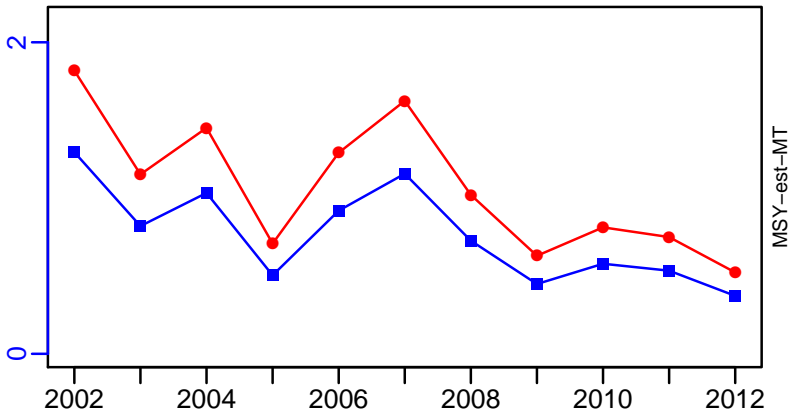
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002-2012-OSIO)

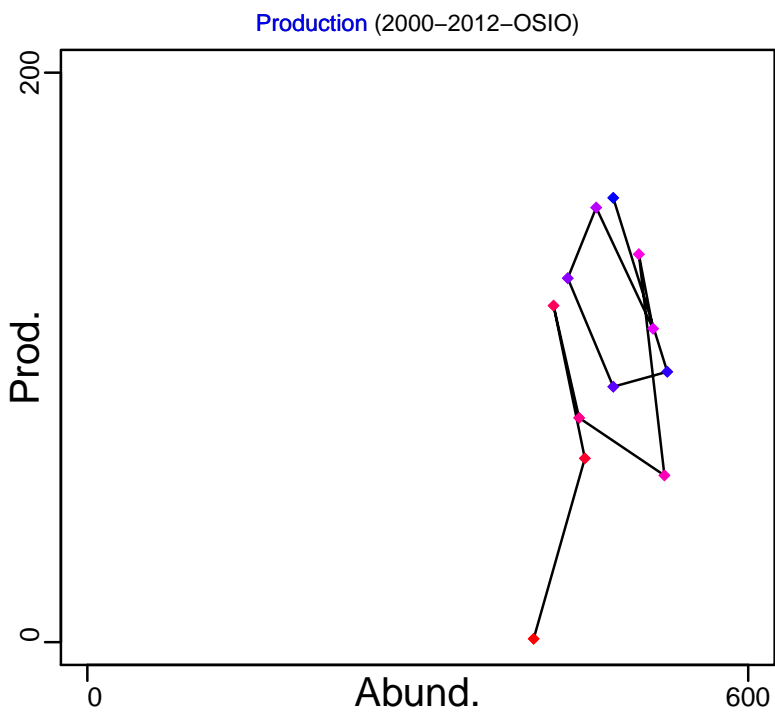
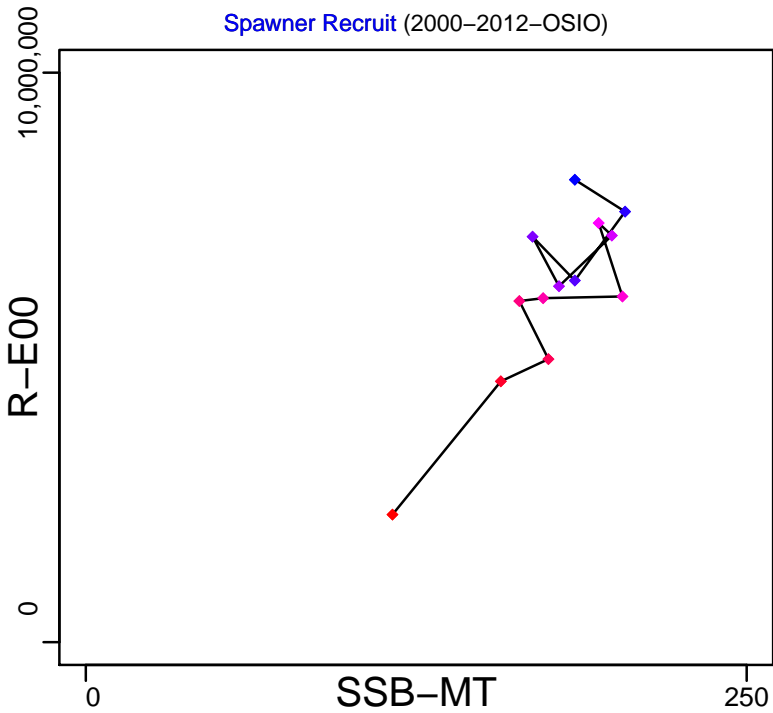


## Surmullet Balearic Island [SMULLMEDGSA5]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	STECF-SMULLMEDGSA5-2000-2012-OSIO
<b>Area</b>	Balearic Island
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2012

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>	Fmgt-1/yr	2012	0.181
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2012	116	-	2+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	2,240,000	-	-
<b>F</b>	F-1/yr	2012	0.477	-	-
<b>ER</b>	ER-calc-ratio	2012	0.225	-	-
<b>TC</b>	TC-MT	2012	67		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2012	2.635		
<b>ER/ERmgt</b>	-	-	-		



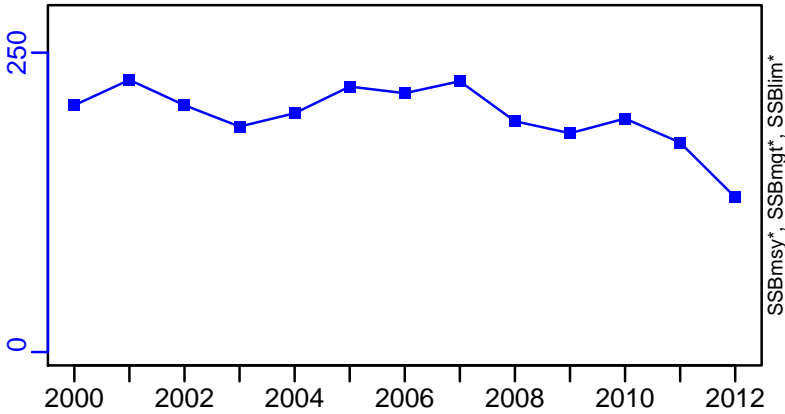
◆ Start Year ◆ End Year \* No Data

Surmullet Balearic Island [SMULLMEDGSA5]

TB\*



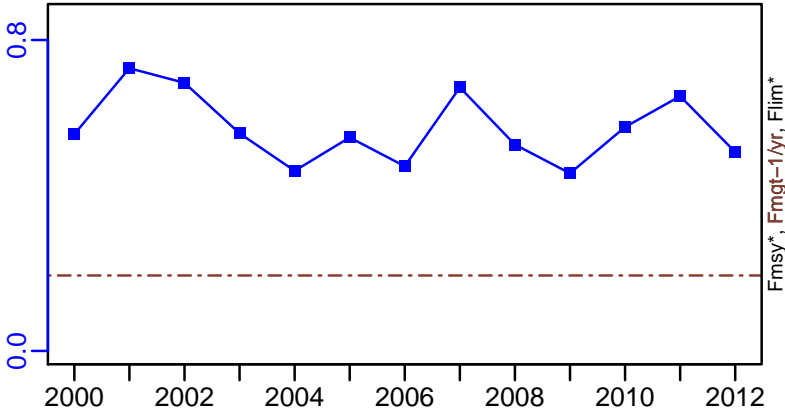
SSB-MT (2000–2012–OSIO)



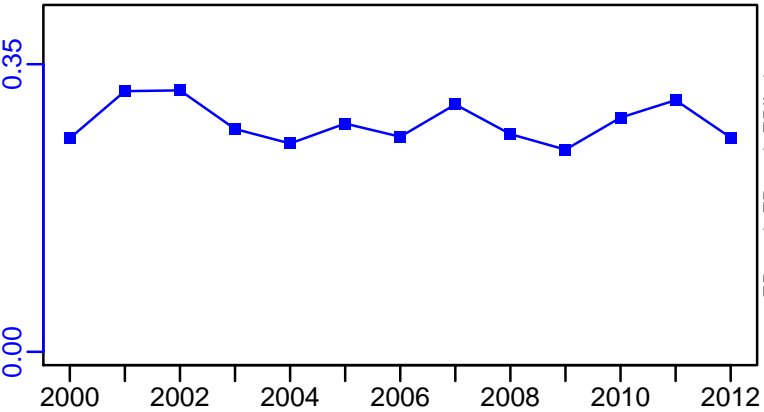
TN \*



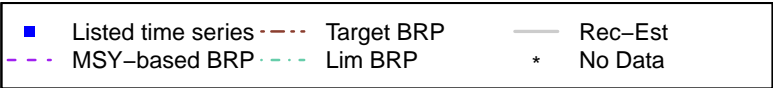
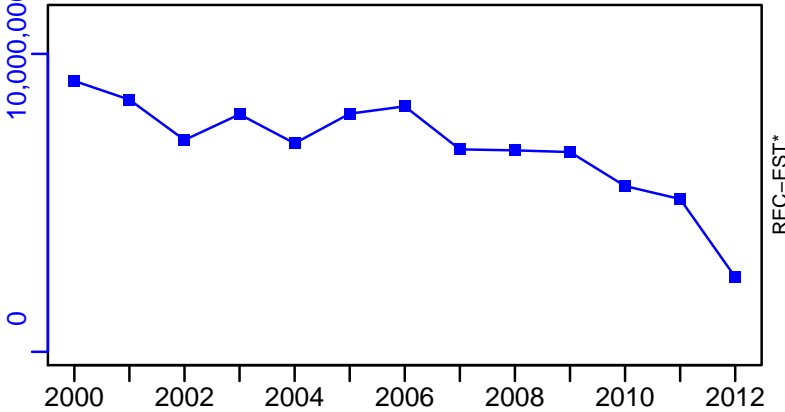
F-1/yr (2000–2012–OSIO)



ER-calc-ratio (2000–2012–OSIO)

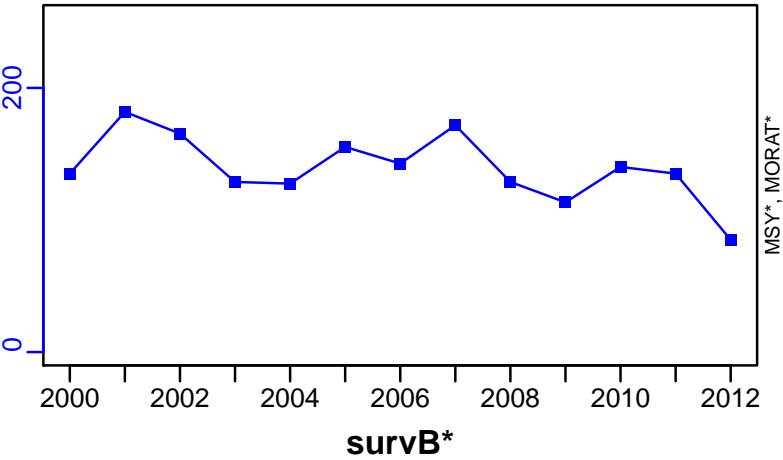


R-E00 (2000–2012–OSIO)



Surmullet Balearic Island [SMULLMEDGSA5]

TC-MT, TL\*, RecC\* (2000-2012-OSIO)



TAC\*, Cpair\*, Cadv\*



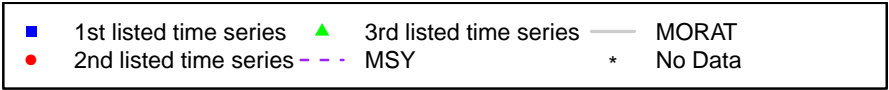
CPUE\*



EFFORT\*



CdivMSY\*



## Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

Metadata	
<b>Scientific Name</b>	Mullus surmuletus
<b>Current Assess ID</b>	STECF-SMULLMEDGSA9-2006-2015-OSIO
<b>Area</b>	Ligurian and North Tyrrhenian Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010, 2015

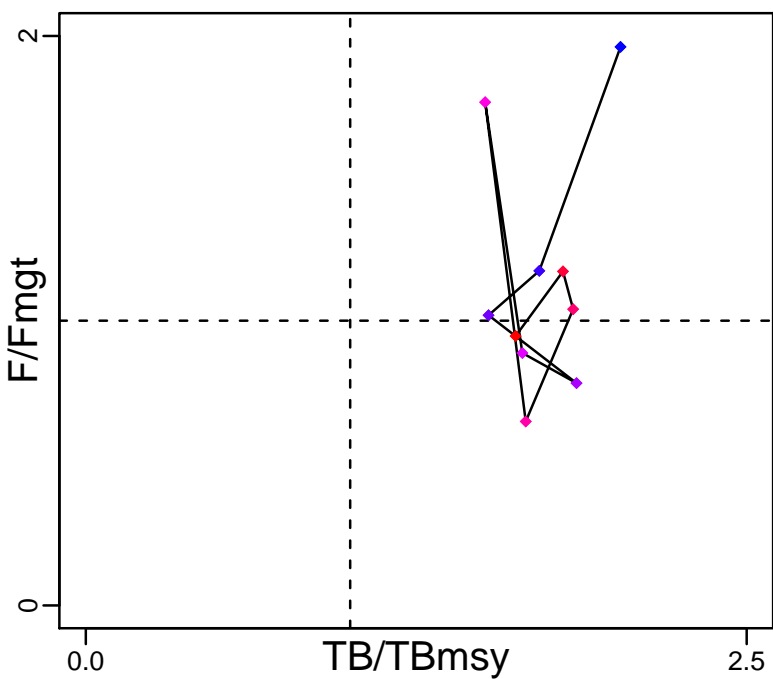
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2015	781
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2015	0.564
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.52
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2015	440
<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	1270	-	-
<b>SSB</b>	SSB-MT	2015	463	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	16,600,000	-	-
<b>F</b>	F-1/yr	2015	0.492	-	-
<b>ER</b>	ER-calc-ratio	2015	0.205	-	-
<b>TC</b>	TC-MT	2015	260		
<b>TL</b>	TL-MT	2015	260		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2015	1.626		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2015	0.363		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.946		
<b>ER/ERmgt</b>	-	-	-		

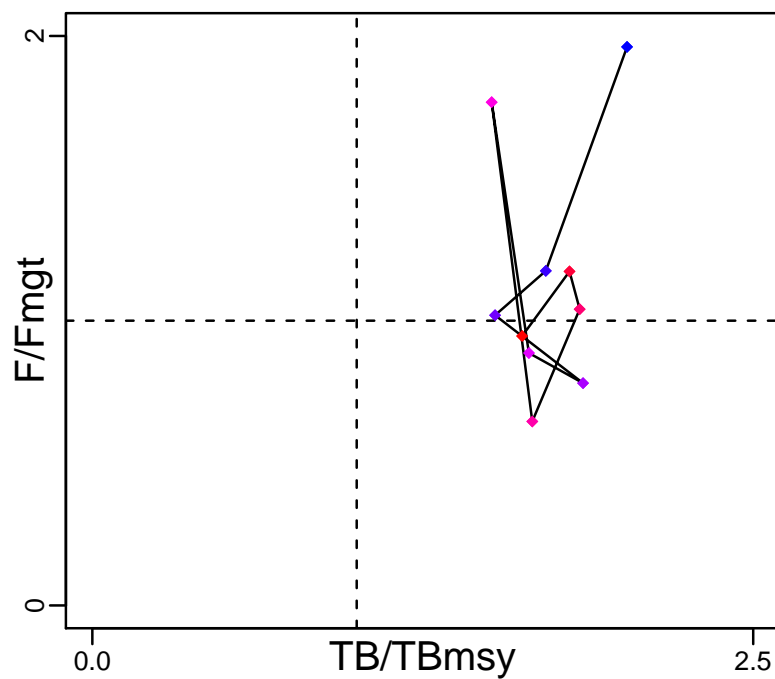


# Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

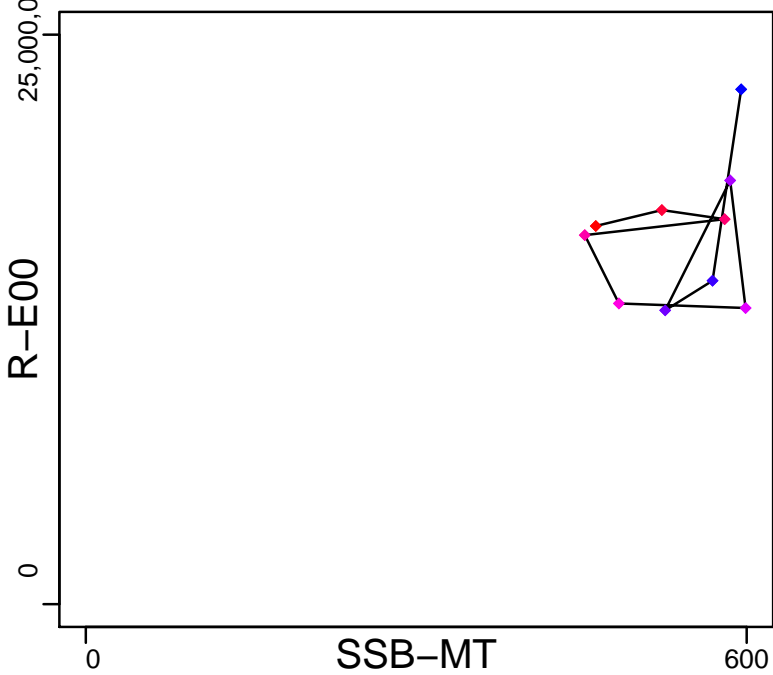
Kobe MSYpref (2006–2015–OSIO)



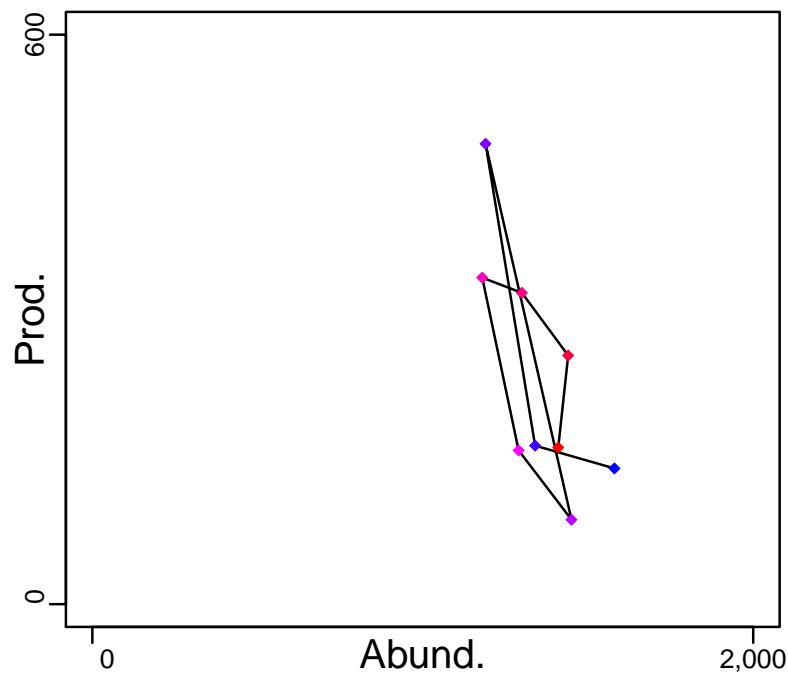
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)



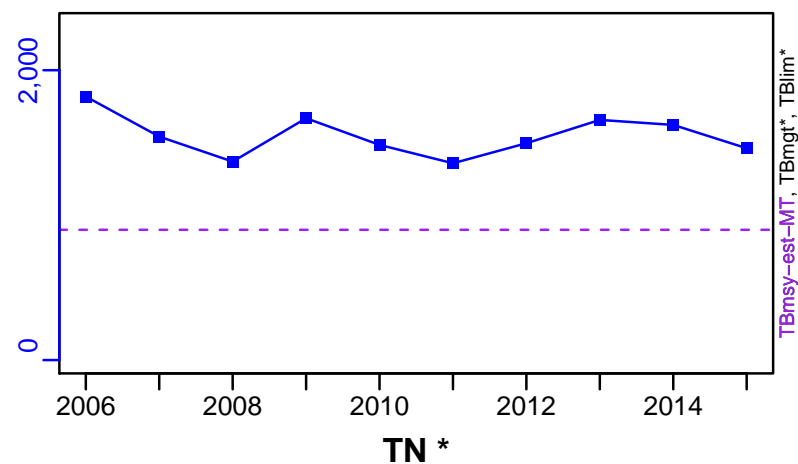
Production (2006–2015–OSIO)



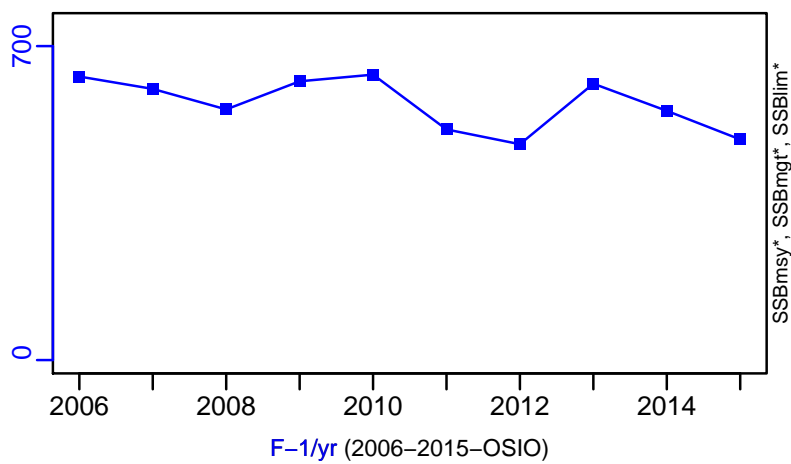
◆ Start Year ◆ End Year \* No Data

# Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TB-MT (2006–2015–OSIO)



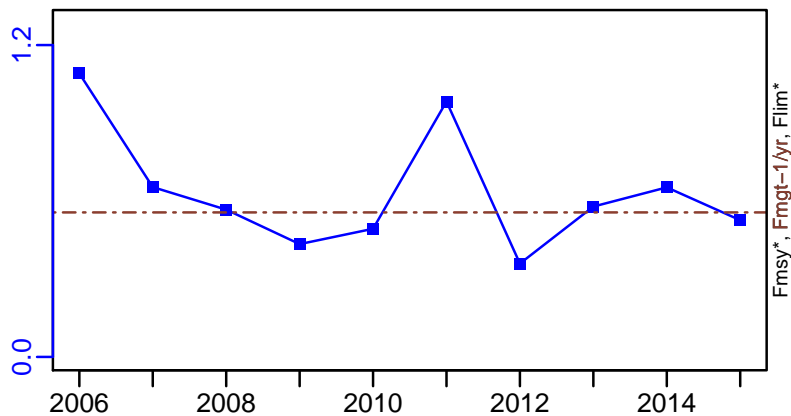
SSB-MT (2006–2015–OSIO)



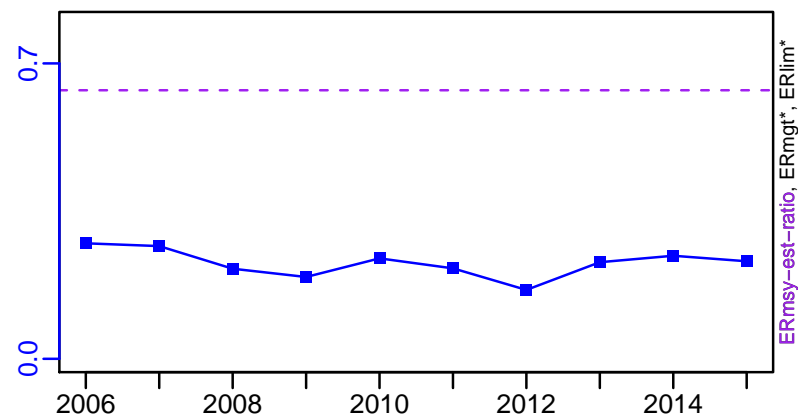
TN \*



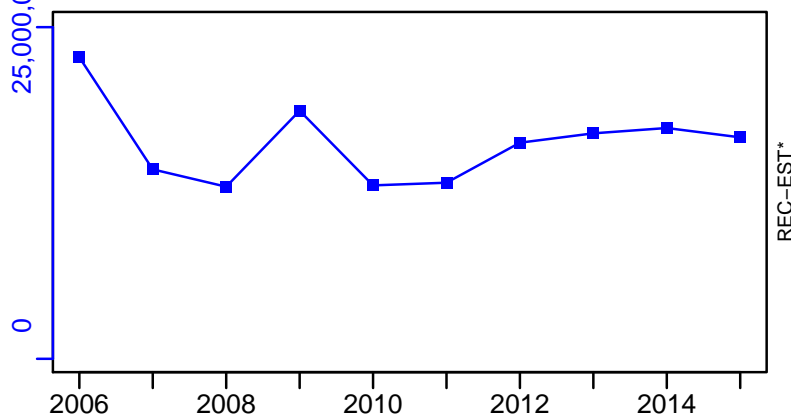
F-1/yr (2006–2015–OSIO)



ER-calc-ratio (2006–2015–OSIO)

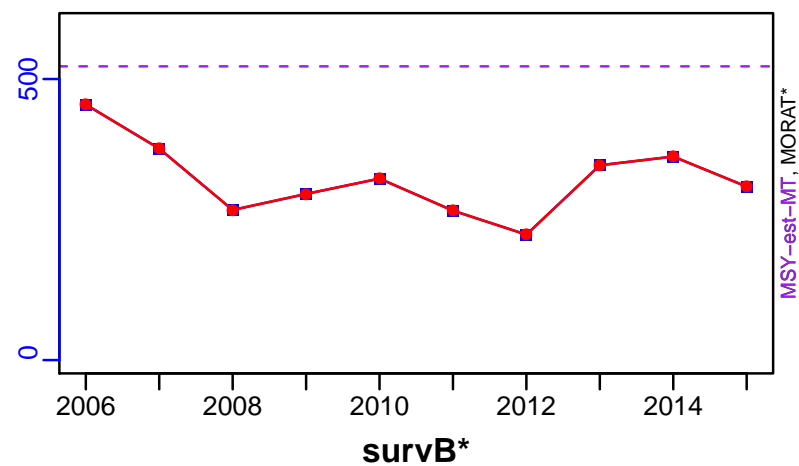


R-E00 (2006–2015–OSIO)



# Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TC-MT, TL-MT, RecC\* (2006–2015–OSIO)



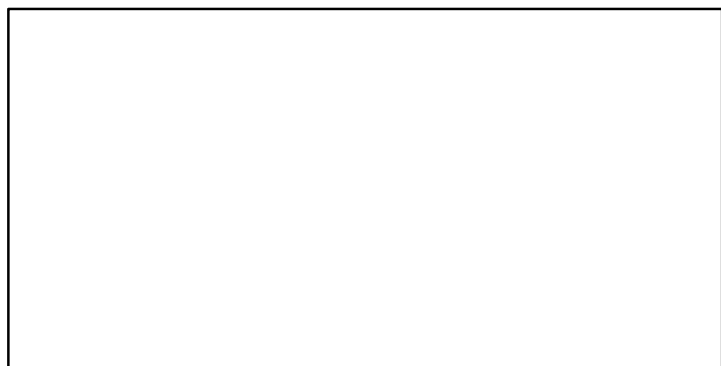
TAC\*, Cpair\*, Cadv\*



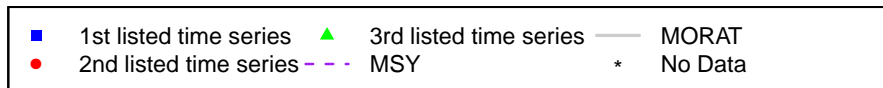
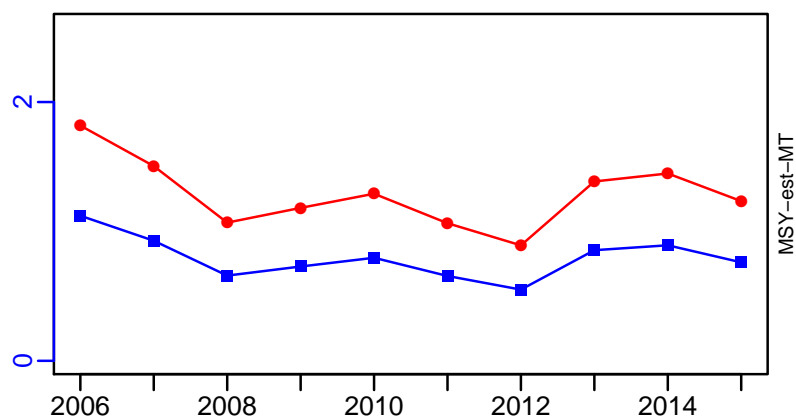
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2006–2015–OSIO)



## Common sole Northern Adriatic Sea [SOLMEDGSA17]

Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	STECF-SOLMEDGSA17-2006-2014-OSIO
<b>Area</b>	Northern Adriatic Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2014

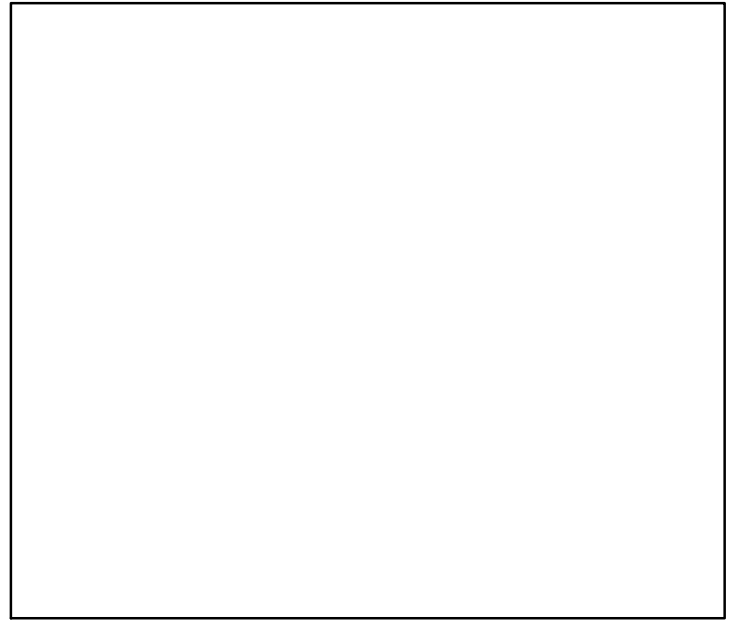
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2014	0.26
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	0.35
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	1450	-	-
TN	-	-	-	-	-
R	R-E00	2014	28,200,000	-	-
F	F-1/yr	2014	0.634	-	-
ER	ER-calc-ratio	2014	0.586	-	-
TC	TC-MT	2014	2050		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	2.438		
ER/ERmgt	-	-	-		

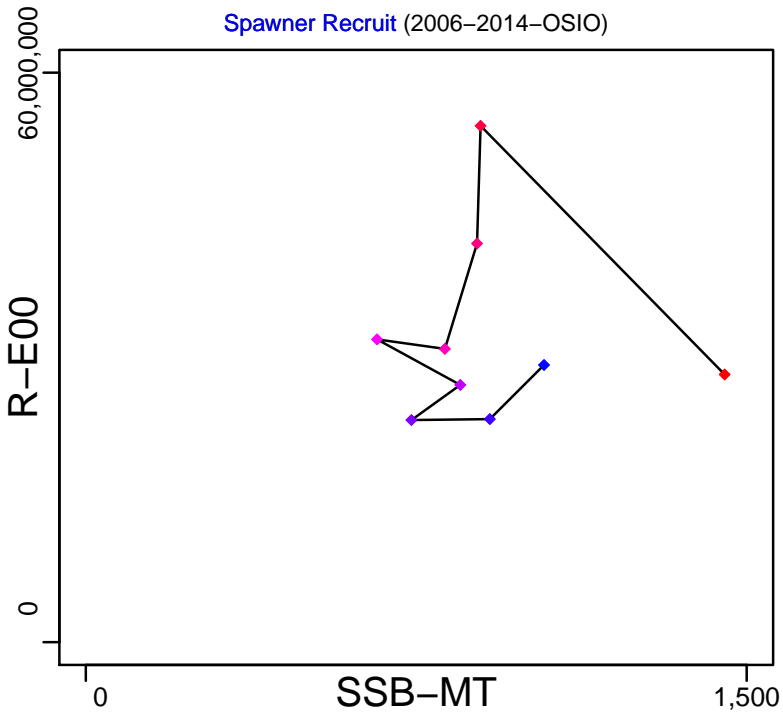
Kobe MSY\*



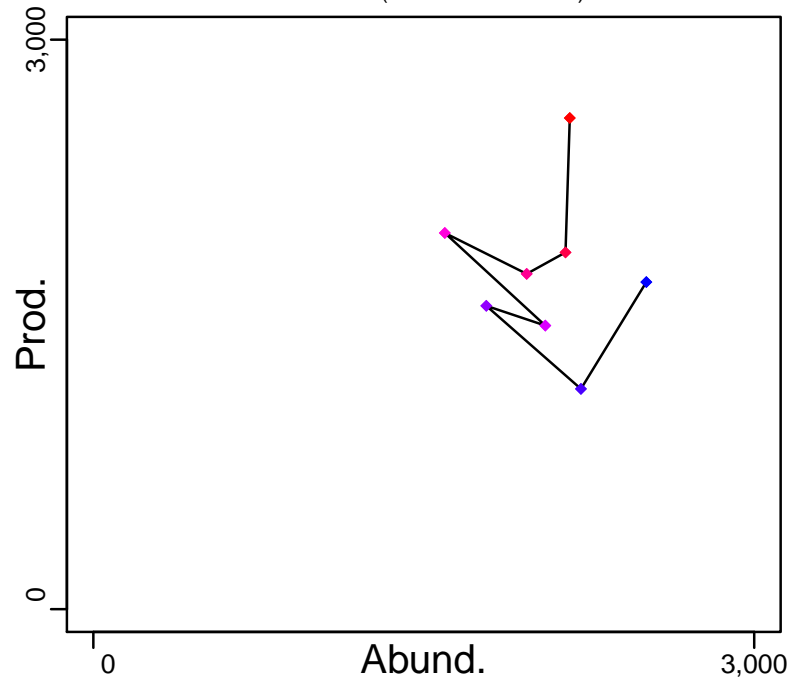
Kobe MGT\*



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)

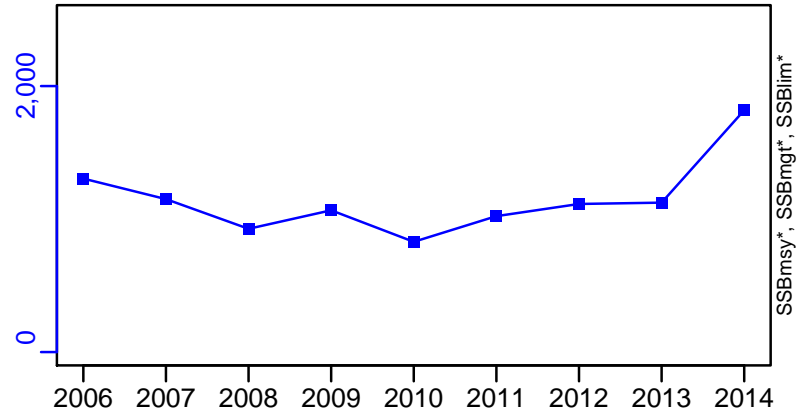


Common sole Northern Adriatic Sea [SOLMEDGSA17]

TB\*



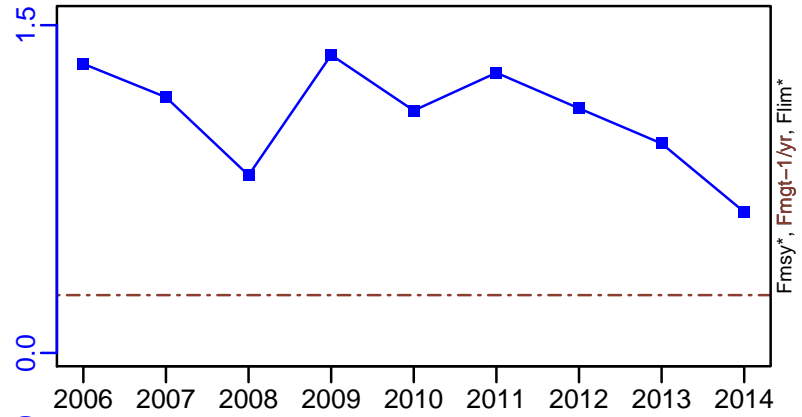
SSB-MT (2006–2014–OSIO)



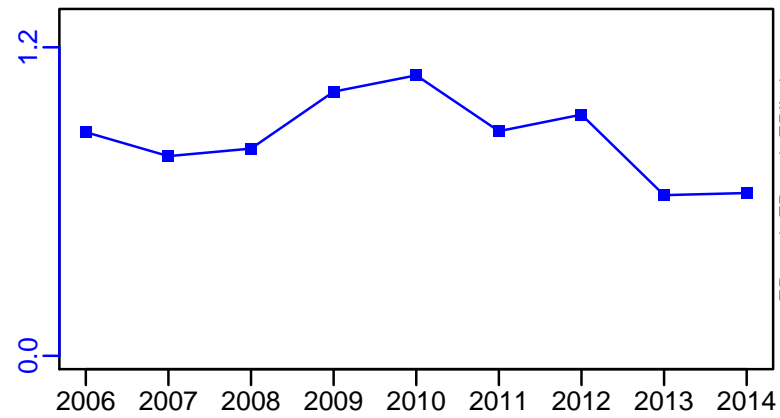
TN \*



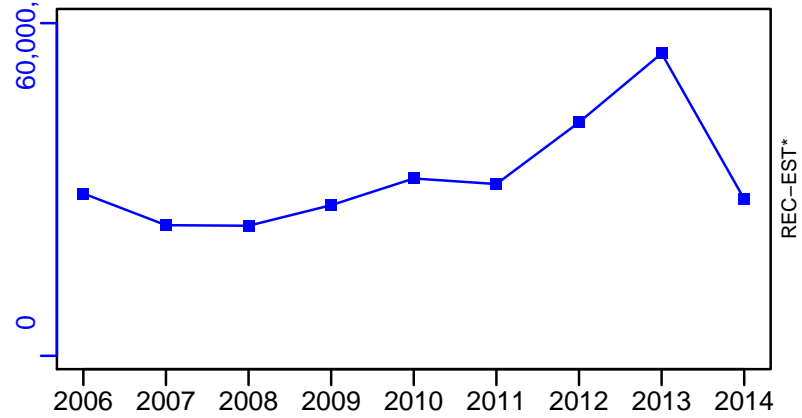
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)



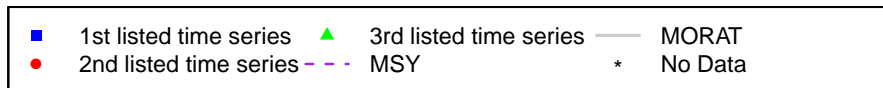
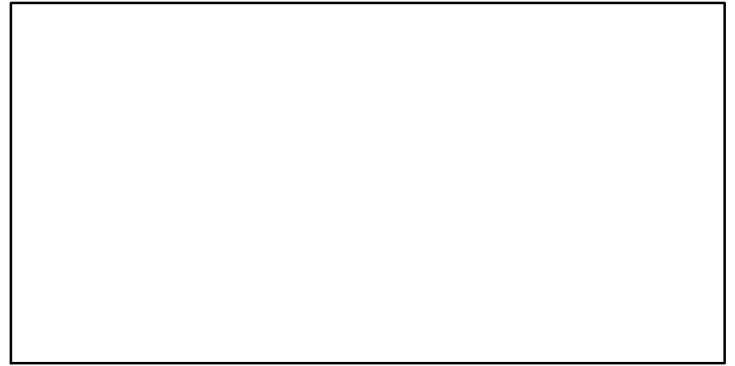
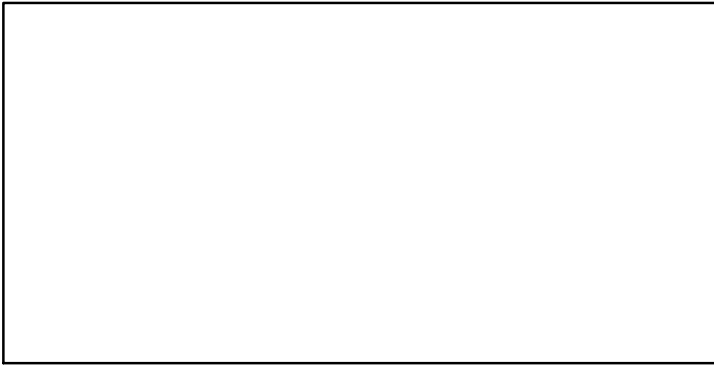
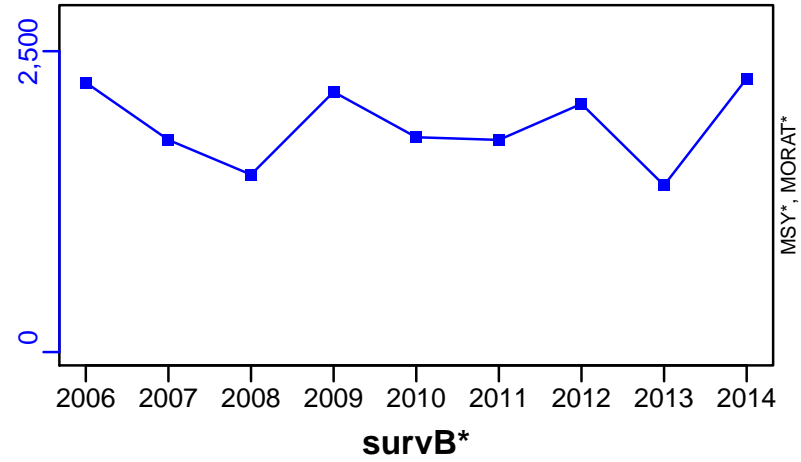
R-E00 (2006–2014–OSIO)



Common sole Northern Adriatic Sea [SOLMEDGSA17]

TC-MT, TL\*, RecC\* (2006–2014–OSIO)

TAC\*, Cpair\*, Cadv\*



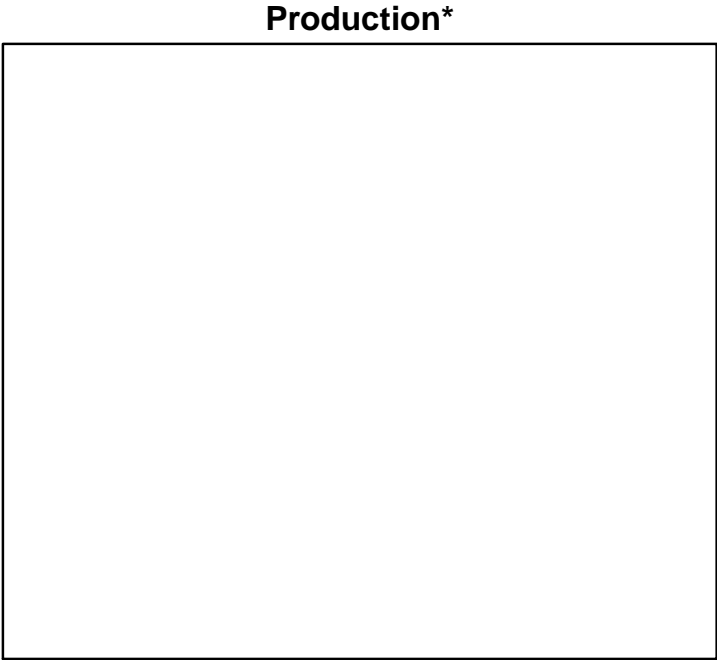
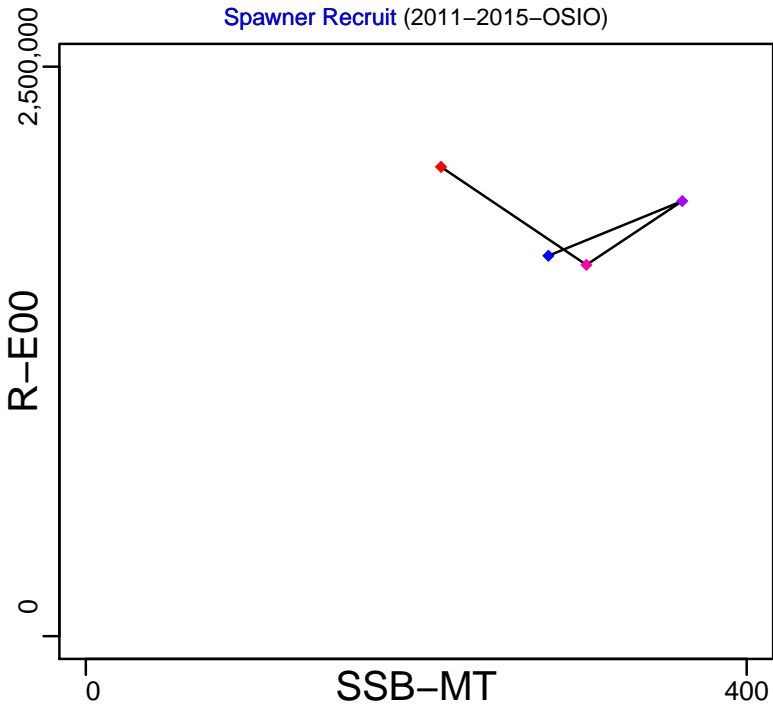
## Common sole Gulf of Lions [SOLMEDGSA7]

Metadata	
<b>Scientific Name</b>	Solea solea
<b>Current Assess ID</b>	STECF-SOLMEDGSA7-2011-2015-OSIO
<b>Area</b>	Gulf of Lions
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.085
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	215	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	2,060,000	-	-
<b>F</b>	F-1/yr	2015	0.63	-	-
<b>ER</b>	ER-calc-ratio	2015	0.394	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	184		
<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>	F-1/yr/Fmgt-1/yr	2015	7.412		
<b>ER/ERmgt</b>	-	-	-		





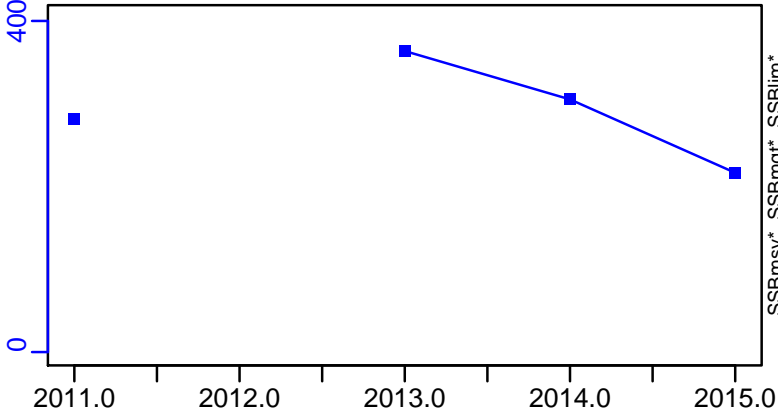
◆ Start Year ◆ End Year \* No Data

Common sole Gulf of Lions [SOLMEDGSA7]

TB\*



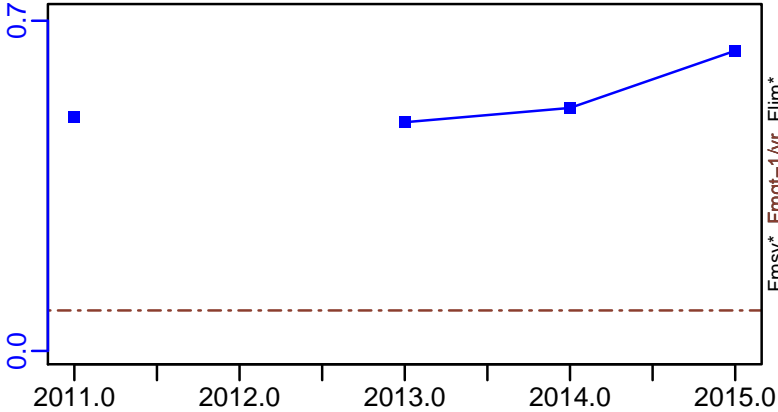
SSB-MT (2011–2015–OSIO)



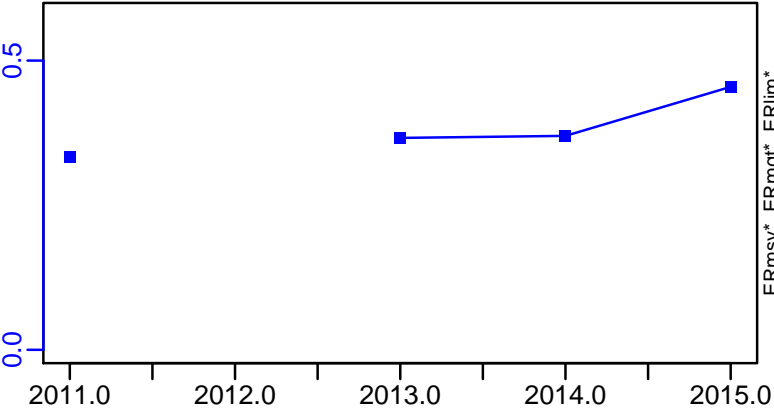
TN \*



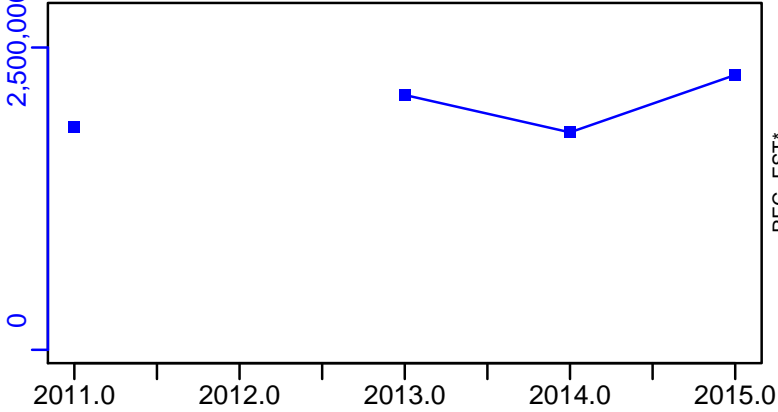
F-1/yr (2011–2015–OSIO)



ER-calc-ratio (2011–2015–OSIO)

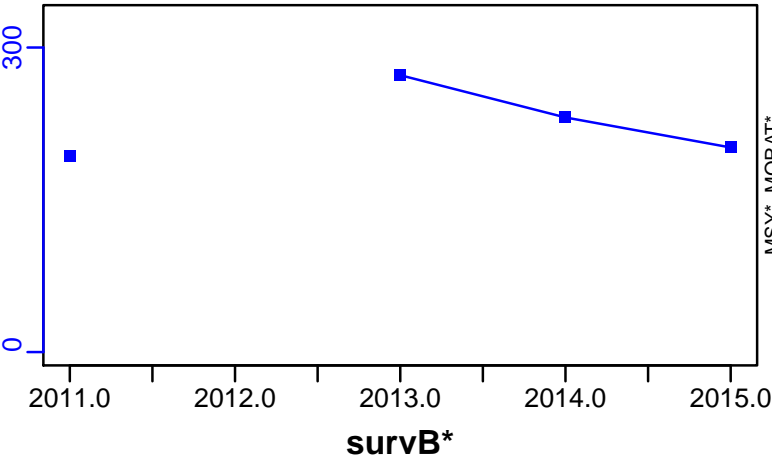


R-E00 (2011–2015–OSIO)



Common sole Gulf of Lions [SOLMEDGSA7]

TL-MT, TC\*, RecC\* (2011-2015-OSIO)



TAC\*, Cpair\*, Cadv\*



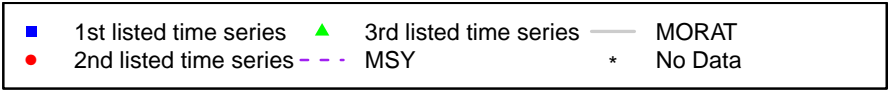
CPUE\*



EFFORT\*



CdivMSY\*



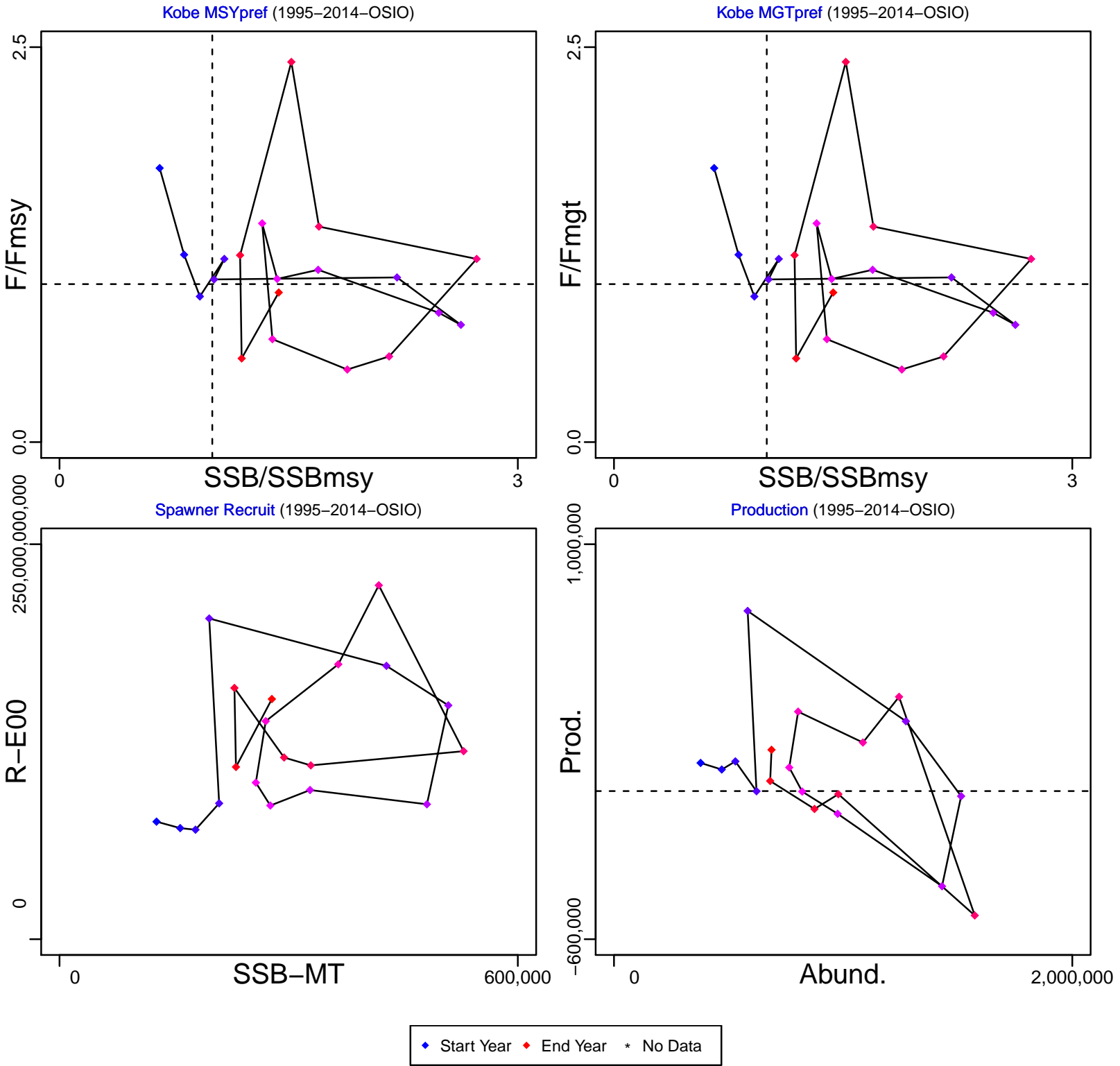
## Sprat Black Sea [SPRBLKGSA29]

Metadata	
<b>Scientific Name</b>	Sprattus sprattus
<b>Current Assess ID</b>	STECF-SPRBLKGSA29-1995-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2010, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	193,730
<b>Fmsy</b>	Fmsy-1/yr	2014	0.64
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.307
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.64
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	177,128
<b>M</b>	M-1/yr	2010	0.95
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	Flim-1/yr	2010	0.64
<b>ERlim</b>	-	-	-

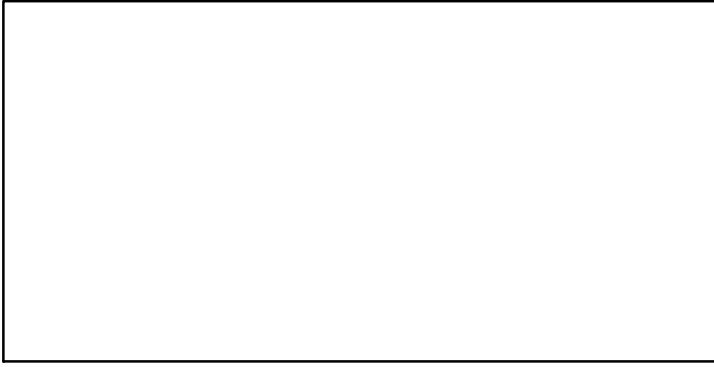
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	278,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.52 \times 10^{11}$	-	-
<b>F</b>	F-1/yr	2014	0.606	-	-
<b>ER</b>	ER-calc-ratio	2014	0.071	-	-
<b>TC</b>	TC-MT	2014	58,400		
<b>TL</b>	TL-MT	2010	91,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	1.435		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	0.947		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	0.23		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.947		
<b>ER/ERmgt</b>	-	-	-		

# Sprat Black Sea [SPRBLKGSA29]

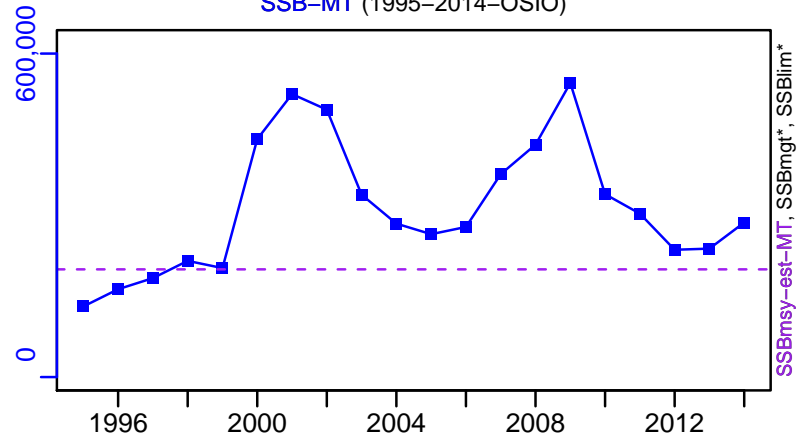


# Sprat Black Sea [SPRBLKGSA29]

TB\*



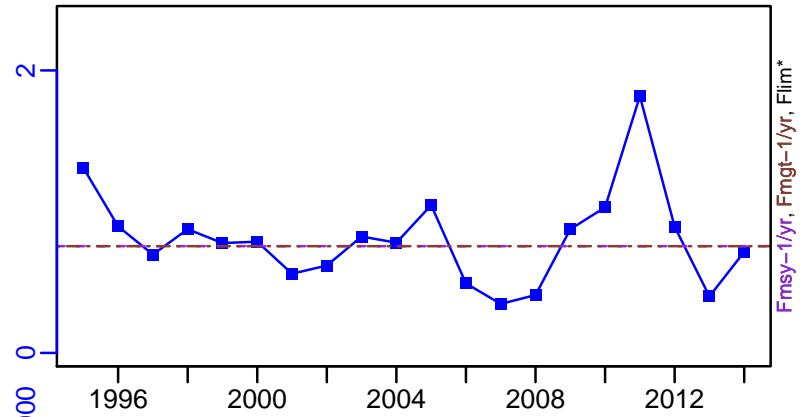
SSB-MT (1995–2014–OSIO)



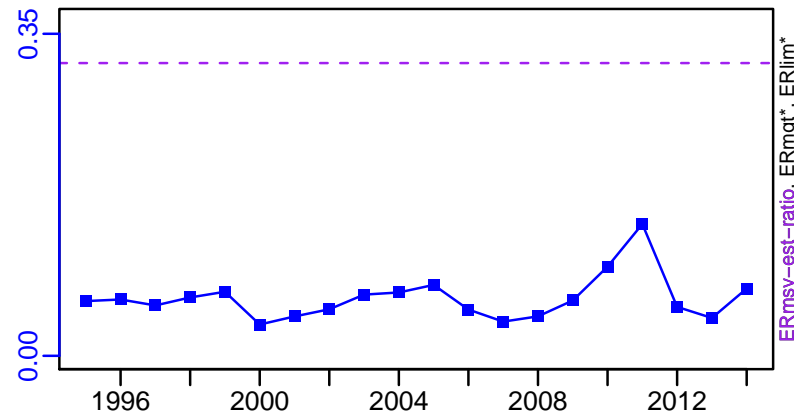
TN \*



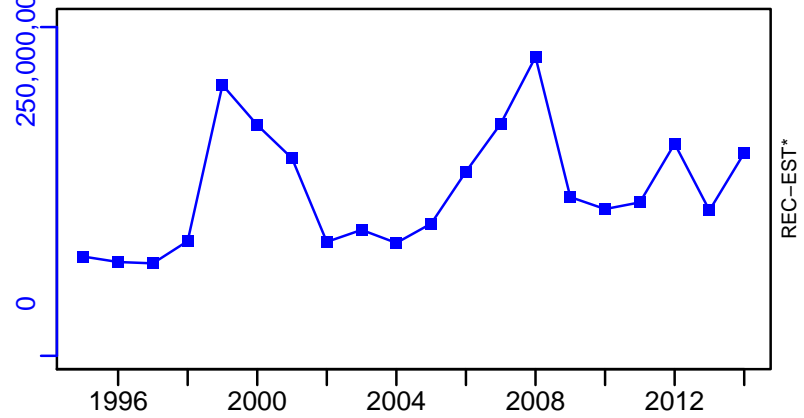
F-1/yr (1995–2014–OSIO)



ER-calc-ratio (1995–2014–OSIO)

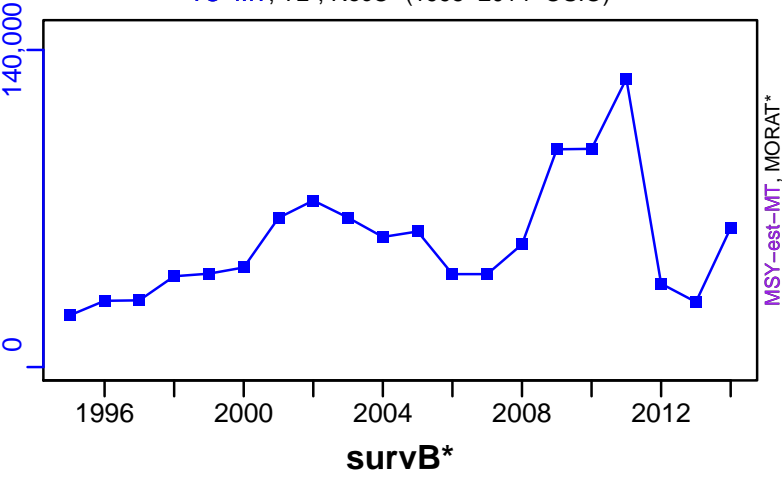


R-E00 (1995–2014–OSIO)



# Sprat Black Sea [SPRBLKGSA29]

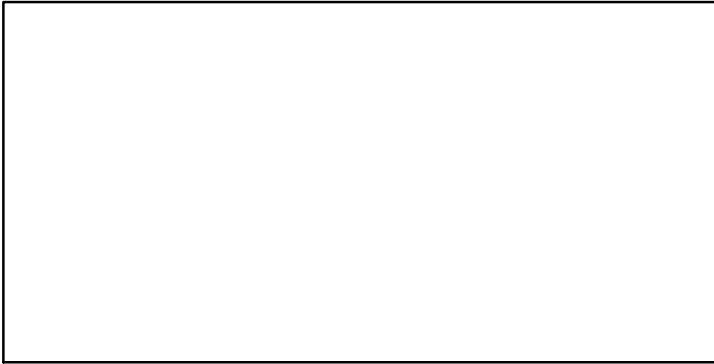
TC-MT, TL\*, RecC\* (1995–2014–OSIO)



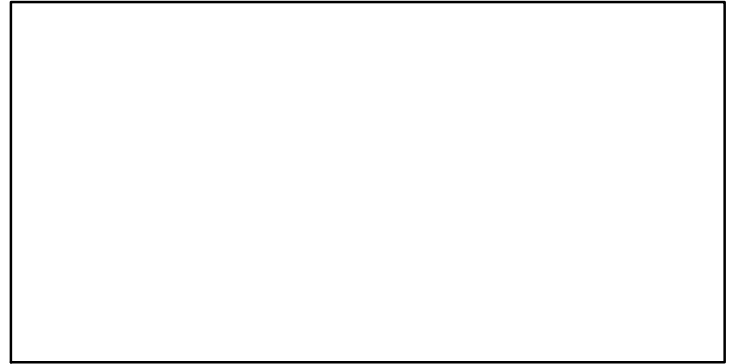
TAC\*, Cpair\*, Cadv\*



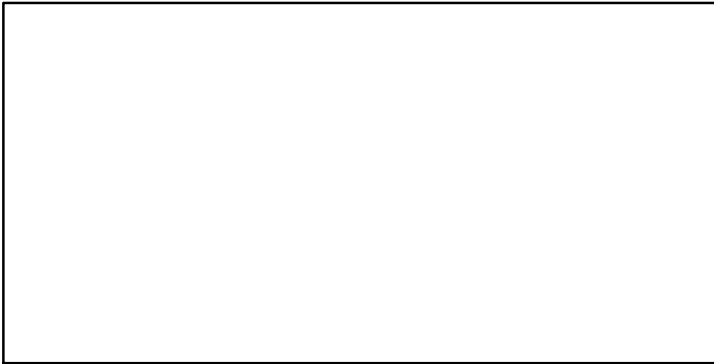
survB\*



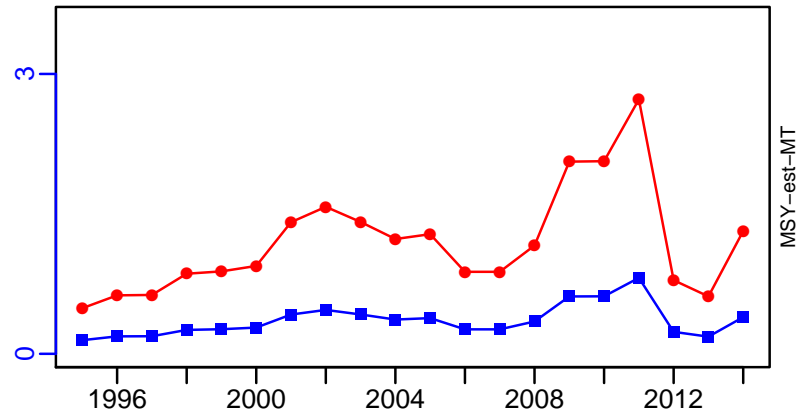
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1995–2014–OSIO)



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

## Swordfish Mediterranean Sea [SWORDMED]

Metadata	
<b>Scientific Name</b>	Xiphias gladius
<b>Current Assess ID</b>	ICCAT-SWORDMED-1950-2009-CHING
<b>Area</b>	Mediterranean Sea
<b>Management Authority</b>	International Commission for the Conservation of Atlantic Tunas
<b>Assessor</b>	International Commission for the Conservation of Atlantic Tunas
<b>Asmts in RAM</b>	2009

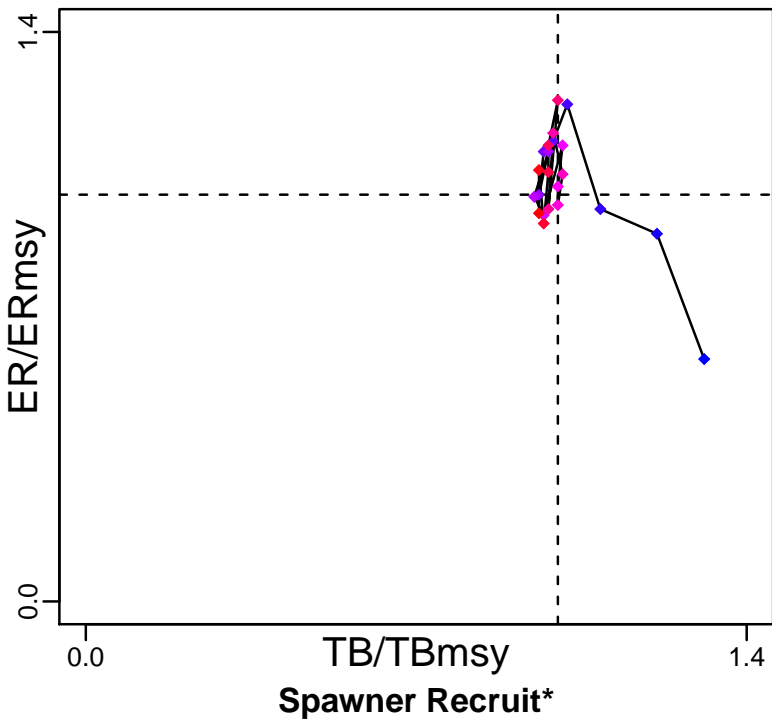
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-extr-MT	2009	73,728
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2009	0.26
<b>ERmsy</b>	ERmsy-calc-ratio	2009	0.198
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2009	14,600
<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	2009	64,600	-	-
<b>SSB</b>	SSB-MT	2009	33,600	-	3+
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2009	0.189	-	-
<b>TC</b>	TC-MT	2009	9340		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	TBdivTBmsy-dimensionless	2009	0.96		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	FdivFmsy-dimensionless	2009	0.89		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-calc-ratio	2009	0.954		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

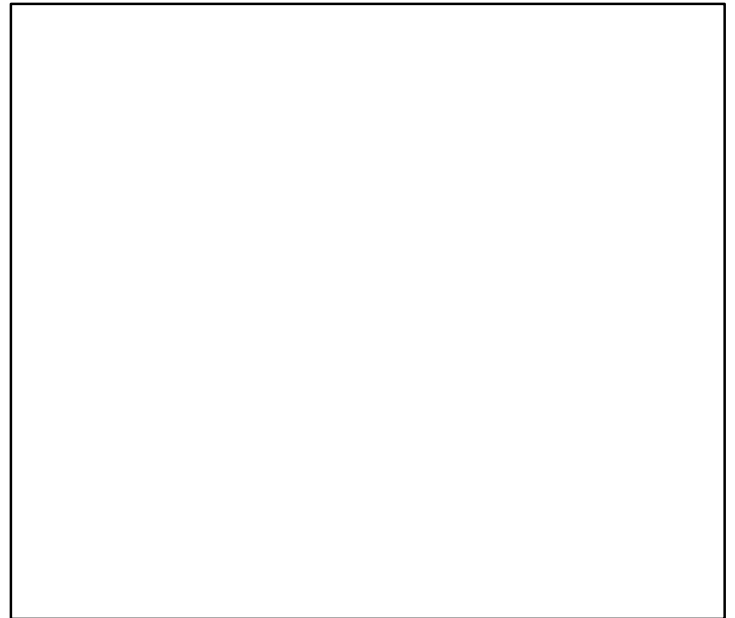
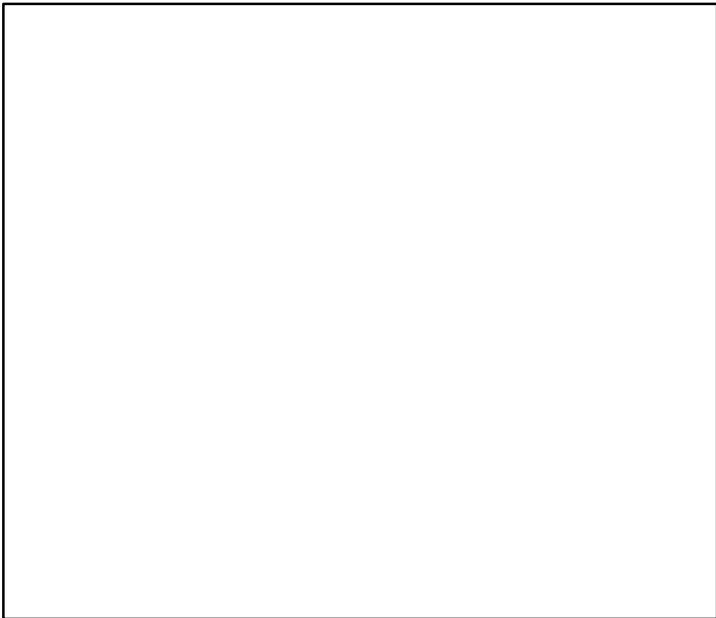
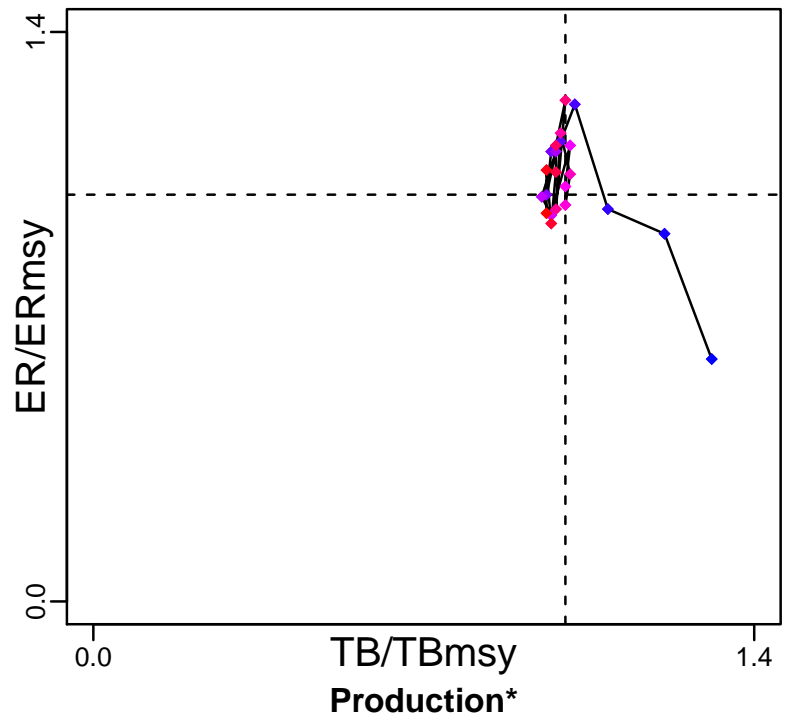


Swordfish Mediterranean Sea [SWORDMED]

Kobe MSYpref (1950–2009–CHING)



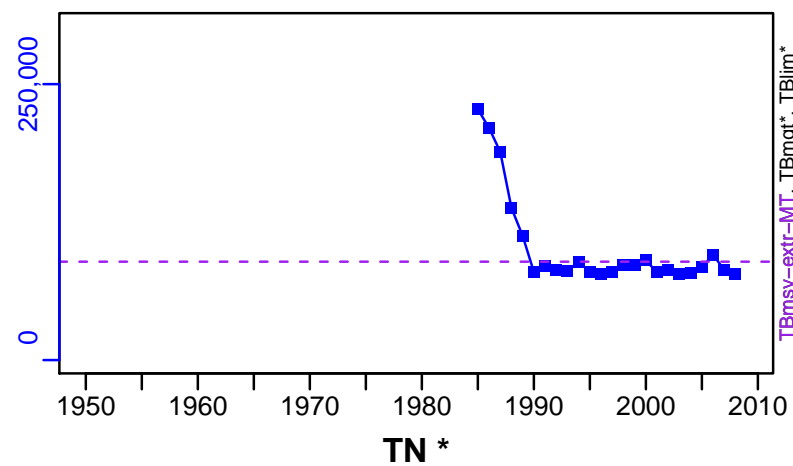
Kobe MGTpref (1950–2009–CHING)



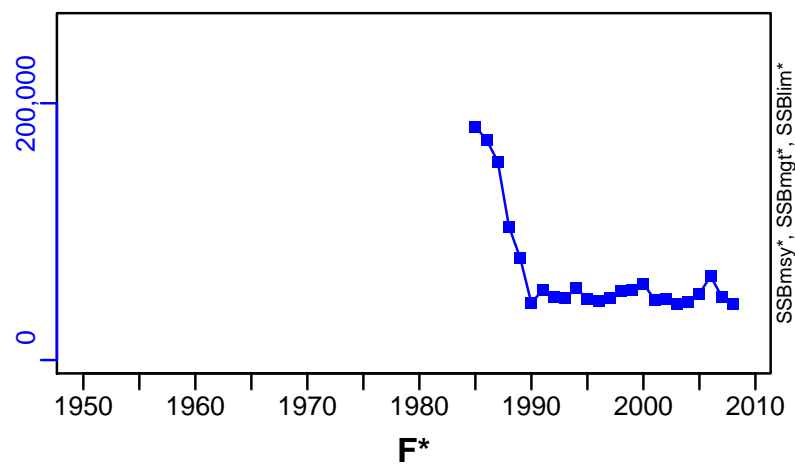
◆ Start Year ◆ End Year \* No Data

# Swordfish Mediterranean Sea [SWORDMED]

TB-MT (1950-2009-CHING)



SSB-MT (1950-2009-CHING)



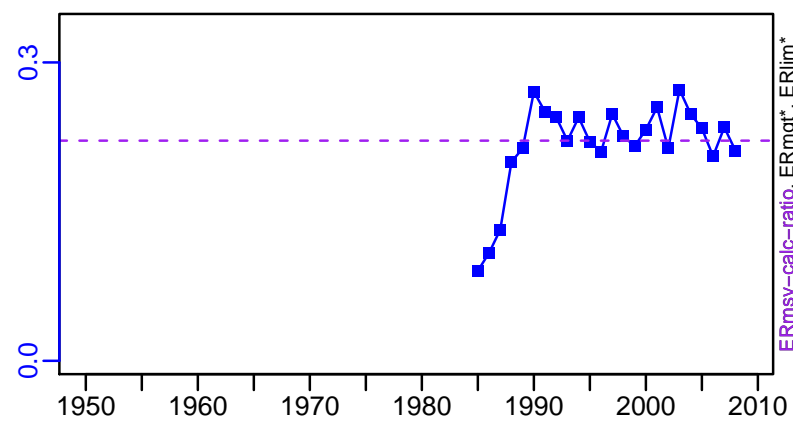
TN \*



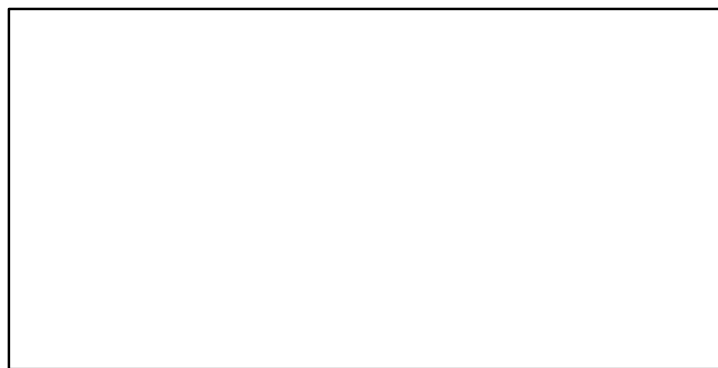
F\*



ER-ratio (1950-2009-CHING)

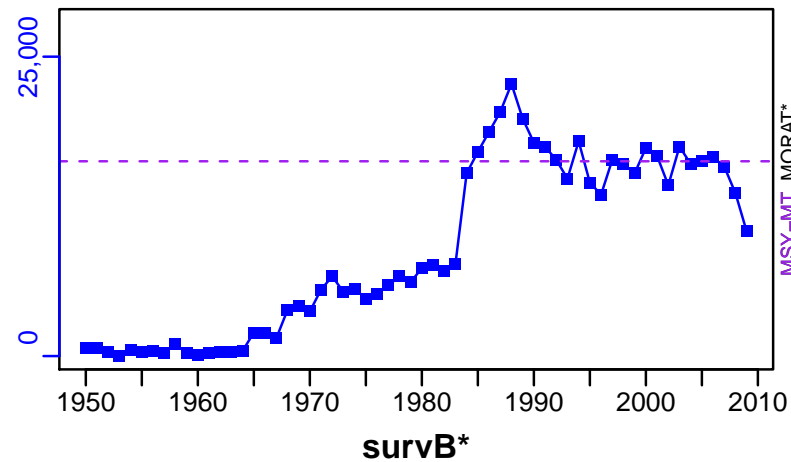


Recruits\*



# Swordfish Mediterranean Sea [SWORDMED]

TC-MT, TL\*, RecC\* (1950–2009–CHING)



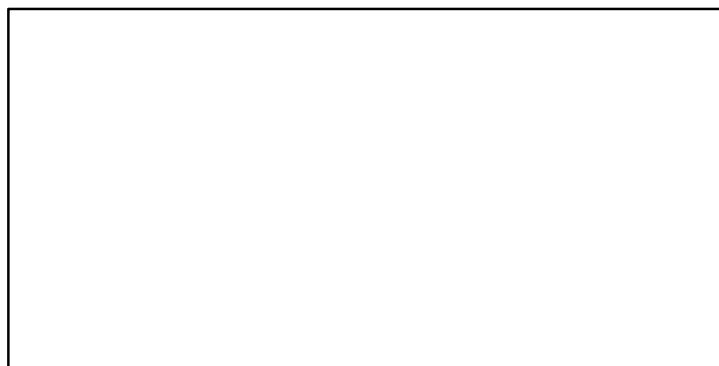
TAC\*, Cpair\*, Cadv\*



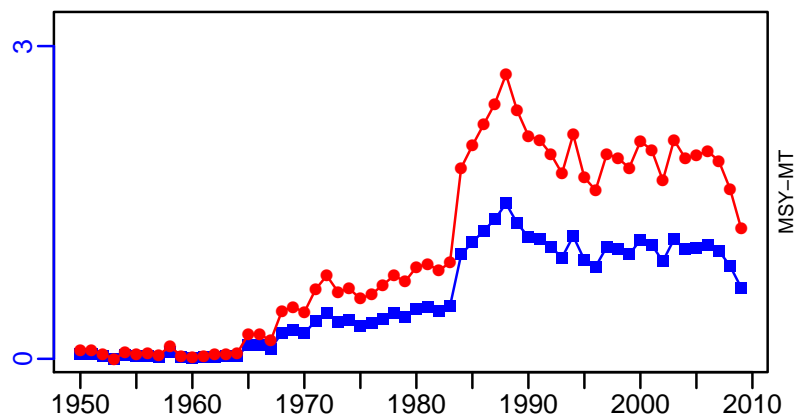
CPUE\*



EFFORT\*



TC-MT/MSY-MT, CdivMEANC-ratio, (1950–2009–CHING)



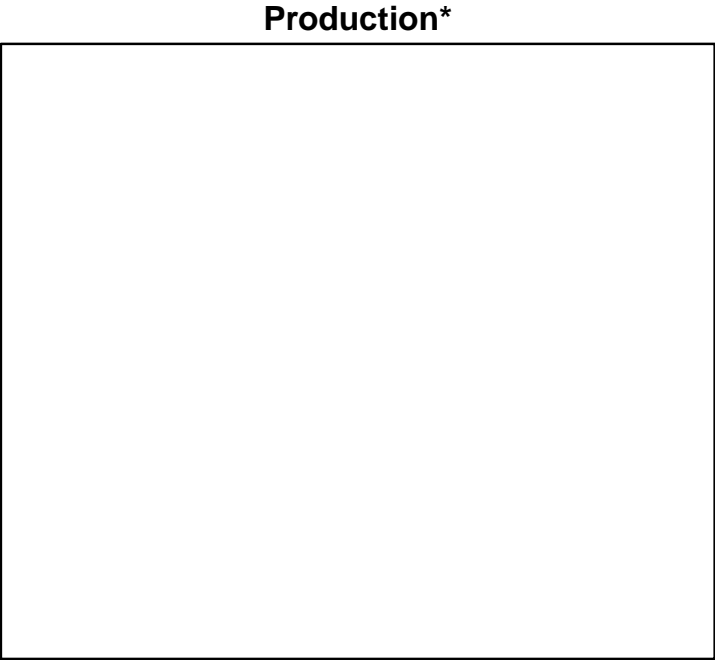
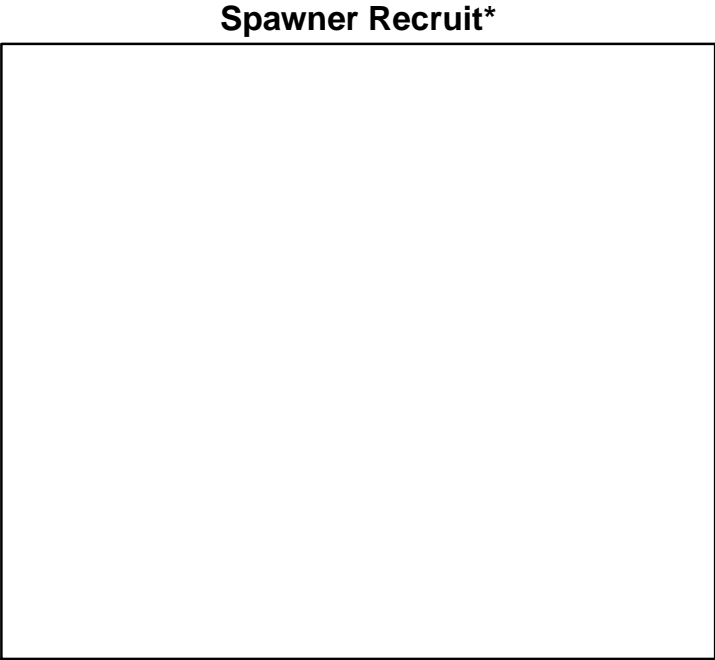
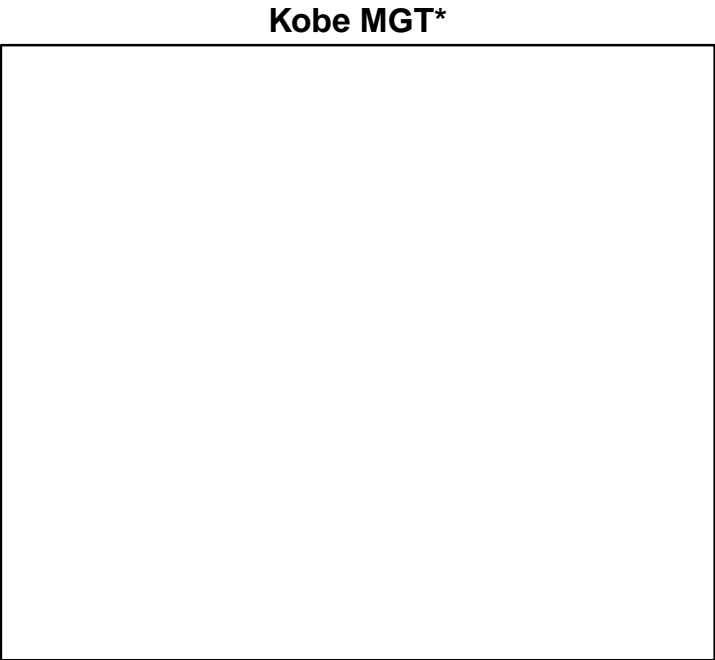
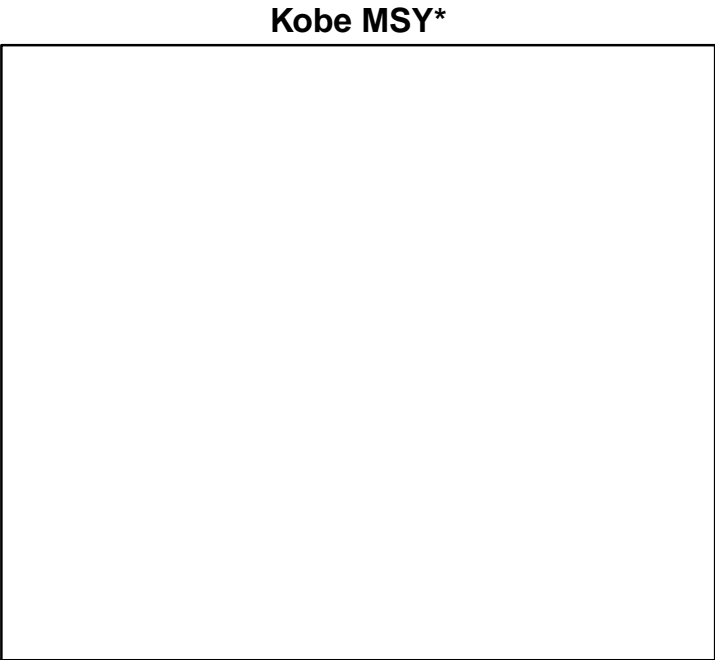
■ 1st listed time series ▲ 3rd listed time series — MORAT  
● 2nd listed time series - - - MSY \* No Data

## Thornback skate Black Sea [TBSKAMEDGSA29]

Metadata	
<b>Scientific Name</b>	Raja clavata
<b>Current Assess ID</b>	STECF-TBSKAMEDGSA29-2008-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.16
<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>	-	-	-	-	-
<b>SSB</b>	-	-	-	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	-	-	-	-	-
<b>F</b>	F-1/yr	2014	0.21	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2014	96		
<b>TL</b>	-	-	-		
<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>	F-1/yr/Fmgt-1/yr	2014	1.312		
<b>ER/ERmgt</b>	-	-	-		



◆ Start Year   ♦ End Year   \* No Data

Thornback skate Black Sea [TBSKAMEDGSA29]

TB\*



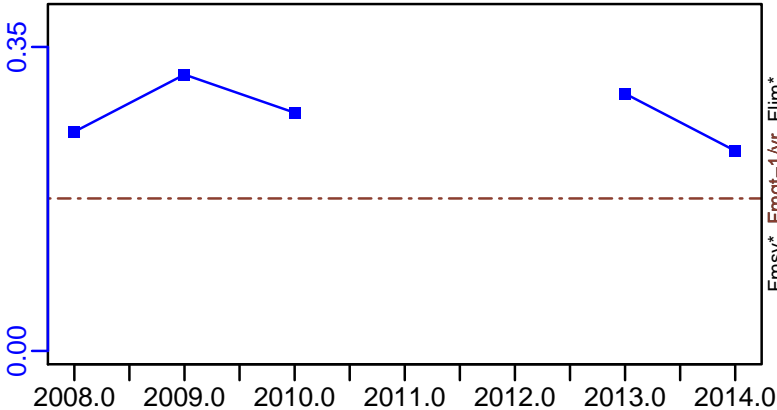
SSB\*



TN \*



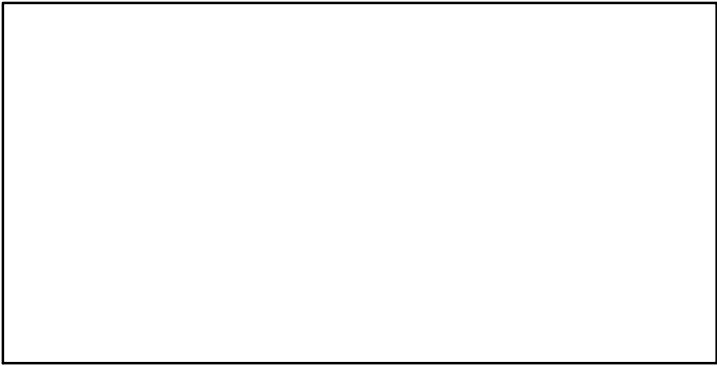
F-1/yr (2008–2014–OSIO)



ER\*



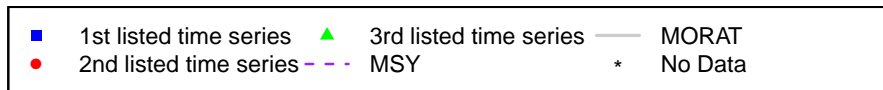
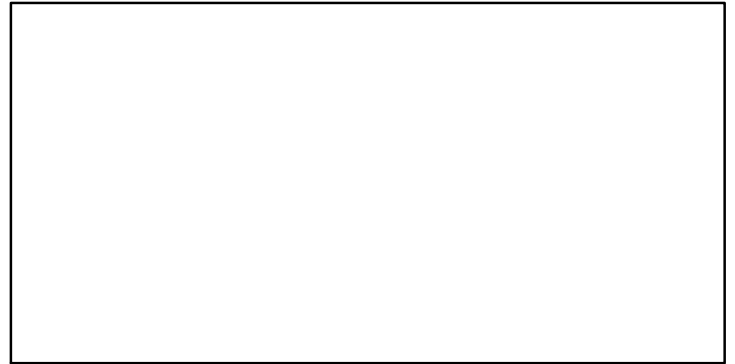
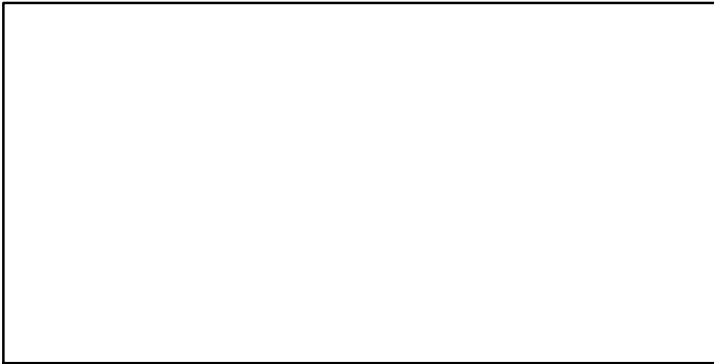
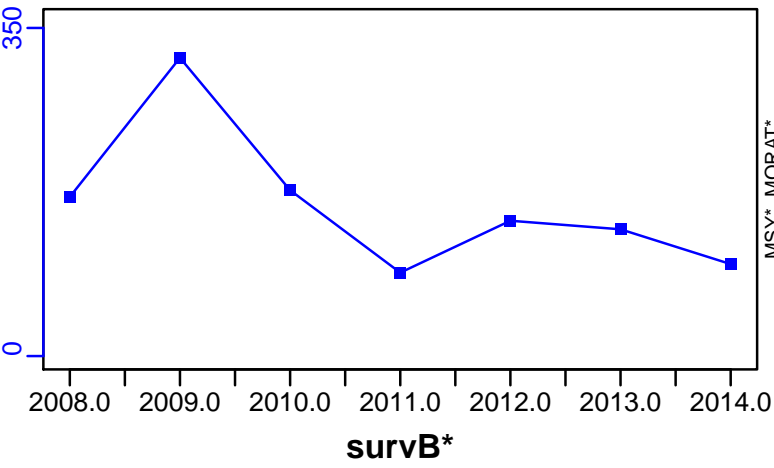
Recruits\*



# Thornback skate Black Sea [TBSKAMEDGSA29]

TC-MT, TL\*, RecC\* (2008–2014–OSIO)

TAC\*, Cpair\*, Cadv\*



## Turbot Black Sea [TURBLKGA29]

Metadata	
<b>Scientific Name</b>	Psetta maxima
<b>Current Assess ID</b>	STECF-TURBLKGA29-1950-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2014, 2010

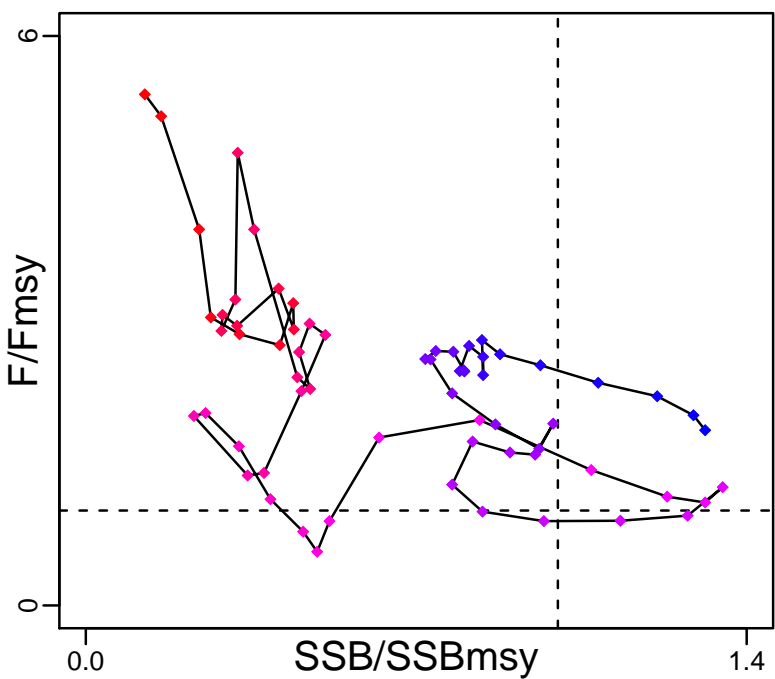
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	8079
<b>Fmsy</b>	Fmsy-1/yr	2014	0.26
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.055
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.26
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	2330
<b>M</b>	M-1/yr	2010	0.19
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2014	3535
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2014	1010	-	4+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	716,000	-	-
<b>F</b>	F-1/yr	2014	1.4	-	-
<b>ER</b>	ER-calc-ratio	2014	0.221	-	-
<b>TC</b>	TC-MT	2014	1160		
<b>TL</b>	-	-	-		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.125		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	5.385		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	3.983		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	5.385		
<b>ER/ERmgt</b>	-	-	-		

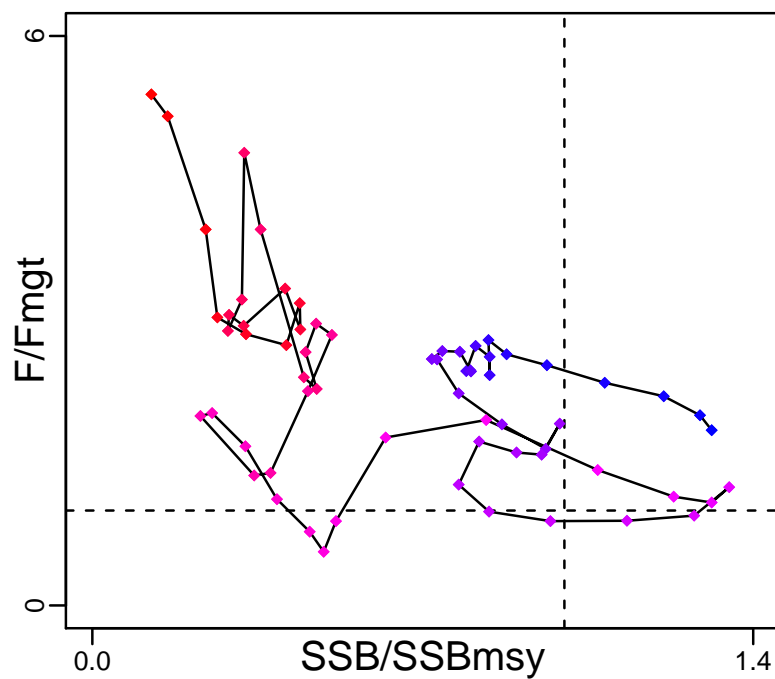


# Turbot Black Sea [TURBLKGSA29]

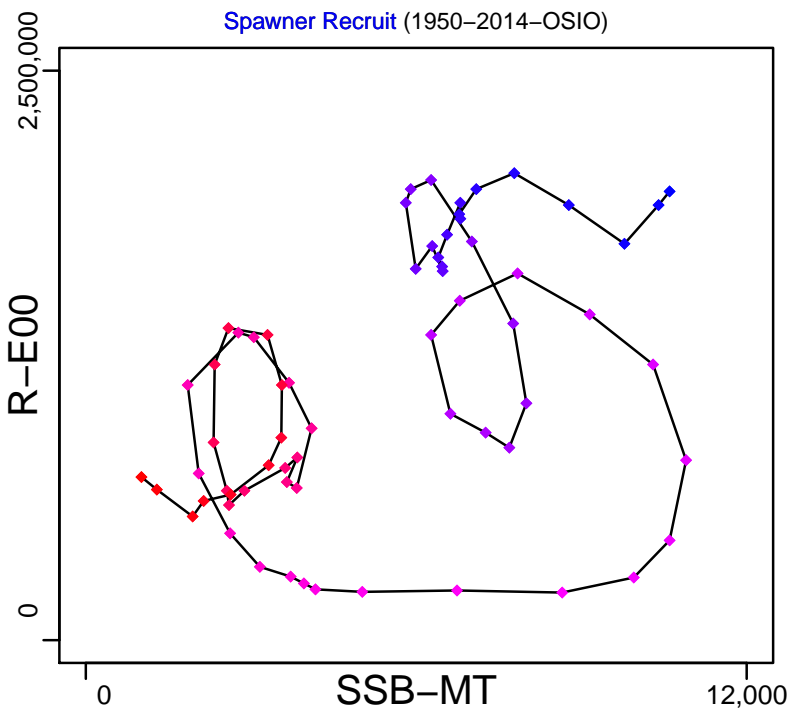
Kobe MSYpref (1950–2014–OSIO)



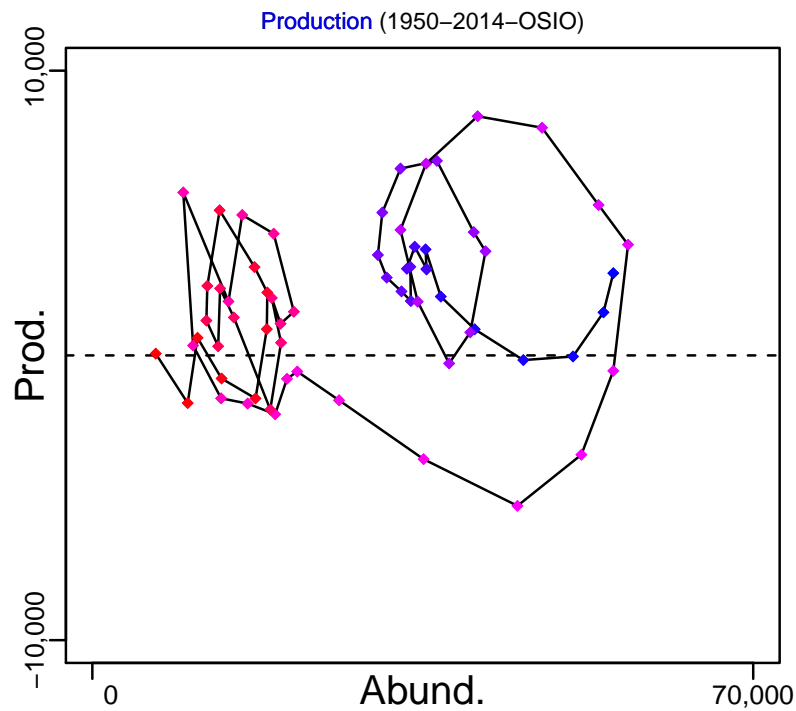
Kobe MGTpref (1950–2014–OSIO)



Spawner Recruit (1950–2014–OSIO)



Production (1950–2014–OSIO)



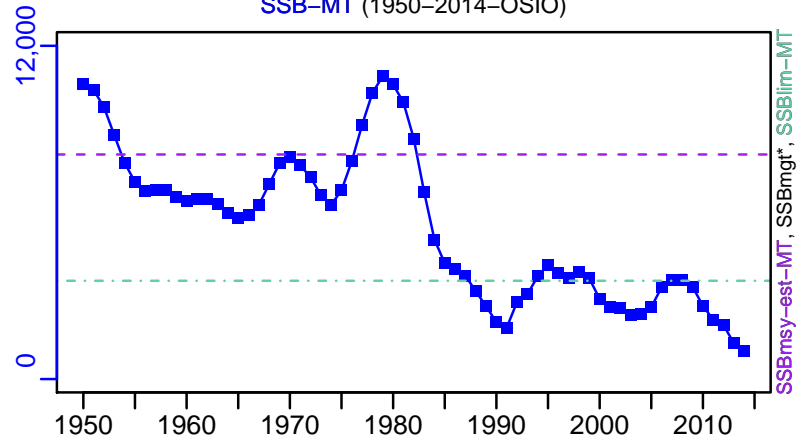
◆ Start Year ◆ End Year \* No Data

# Turbot Black Sea [TURBLKGSA29]

TB\*



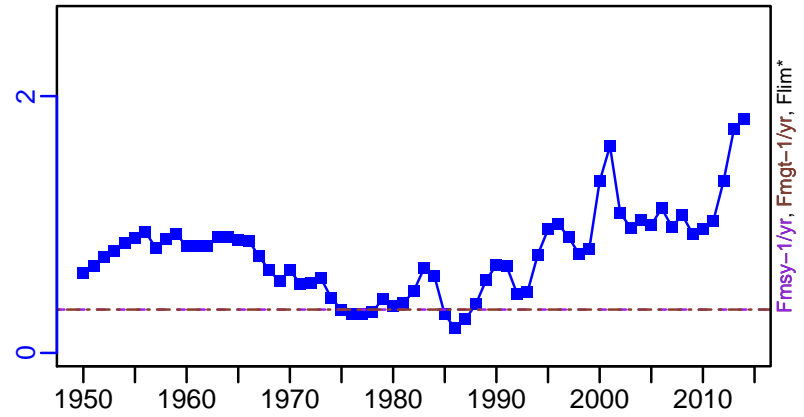
SSB-MT (1950–2014–OSIO)



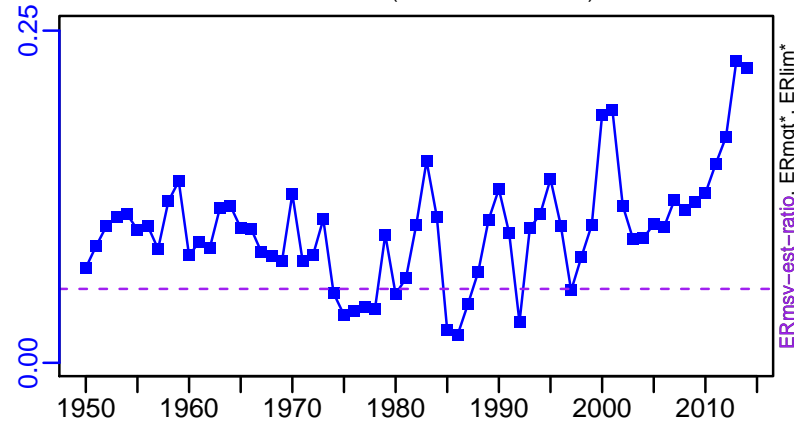
TN \*



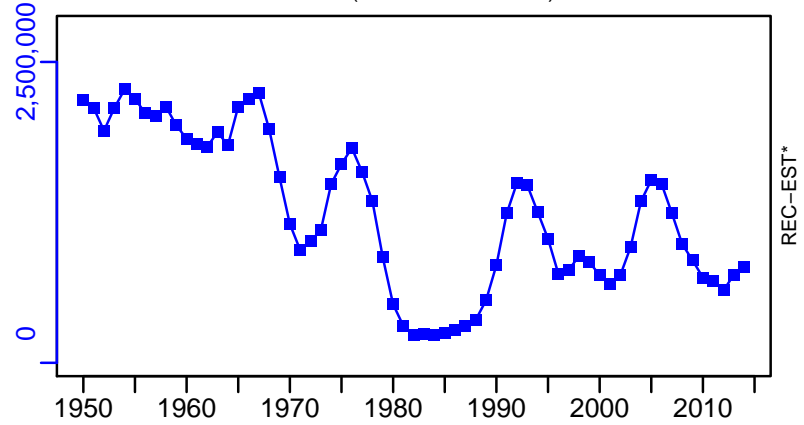
F-1/yr (1950–2014–OSIO)



ER-calc-ratio (1950–2014–OSIO)



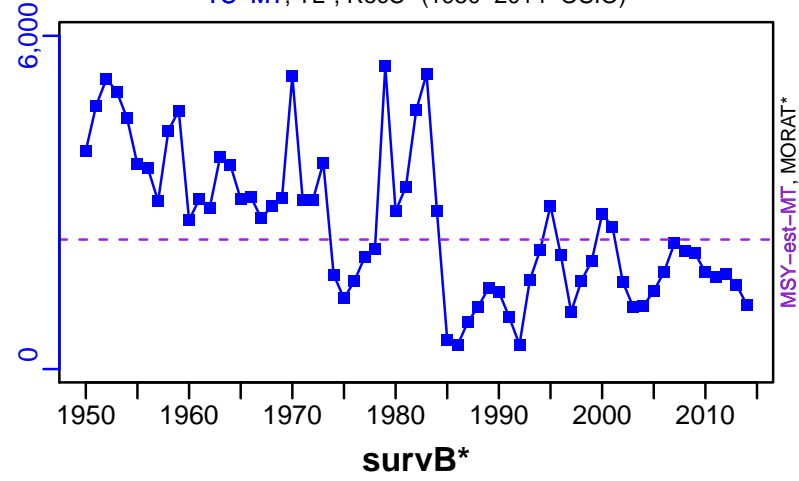
R-E00 (1950–2014–OSIO)



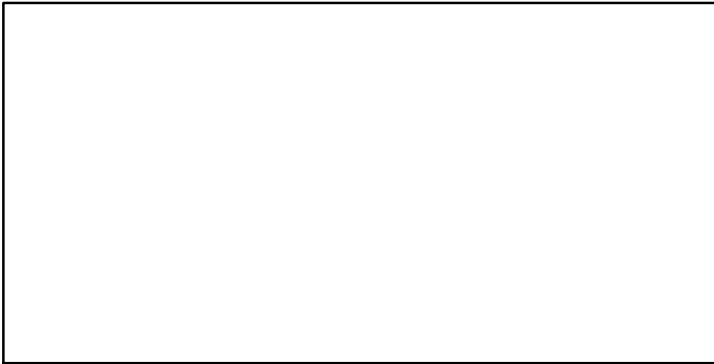
# Turbot Black Sea [TURBLKGSA29]

TC-MT, TL\*, RecC\* (1950–2014–OSIO)

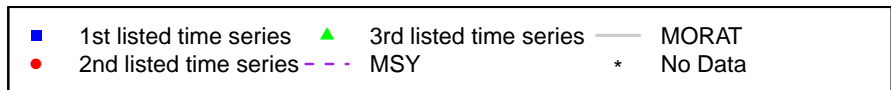
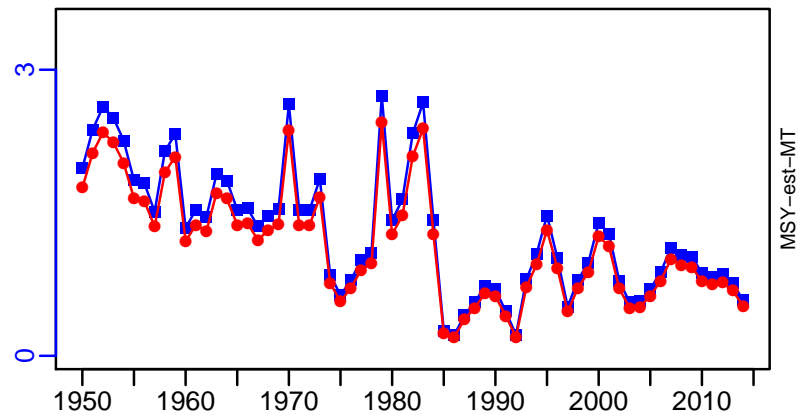
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1950–2014–OSIO)



## White anglerfish Geographical Sub-Areas 1-7 [WANGLGSA1-7]

Metadata	
<b>Scientific Name</b>	Lophius piscatorius
<b>Current Assess ID</b>	STECF-WANGLGSA1-7-2013-2015-OSIO
<b>Area</b>	Geographical Sub-Areas 1-7
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<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>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2015	0.22
<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>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2015	391	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	1,270,000	-	-
<b>F</b>	F-1/yr	2015	0.45	-	-
<b>ER</b>	ER-calc-ratio	2015	3.192	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	3520		
<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>	F-1/yr/Fmgt-1/yr	2015	2.045		
<b>ER/ERmgt</b>	-	-	-		

White anglerfish Geographical Sub-Areas 1–7 [WANGLGSA1–7]

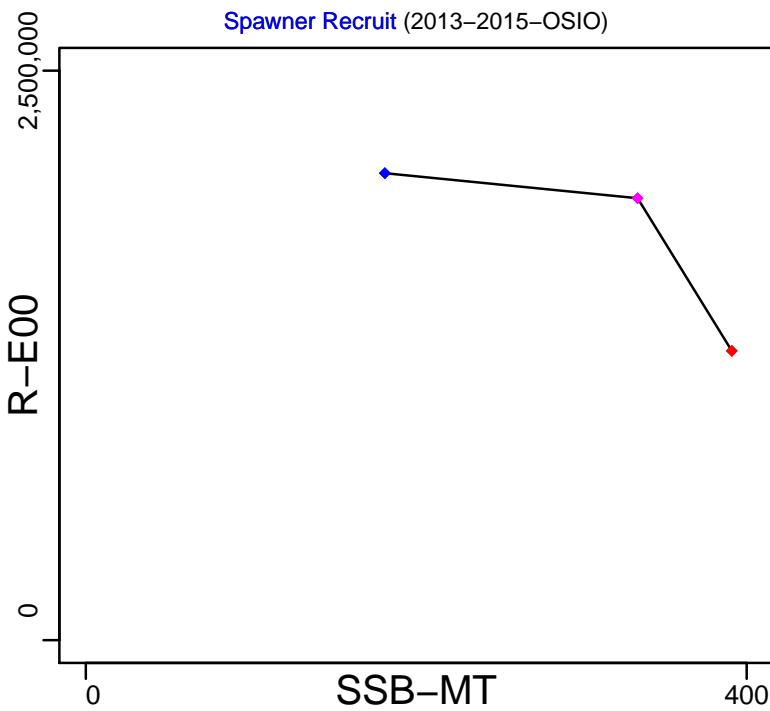
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (2013–2015–OSIO)



Production\*



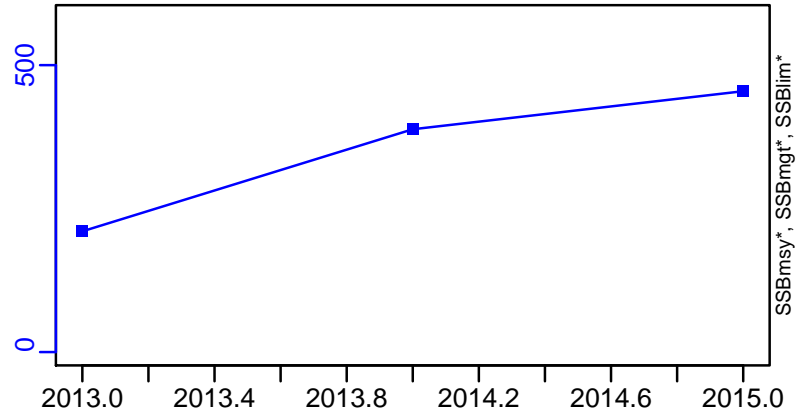
◆ Start Year ◆ End Year \* No Data

# White anglerfish Geographical Sub-Areas 1-7 [WANGLGSA1-7]

TB\*



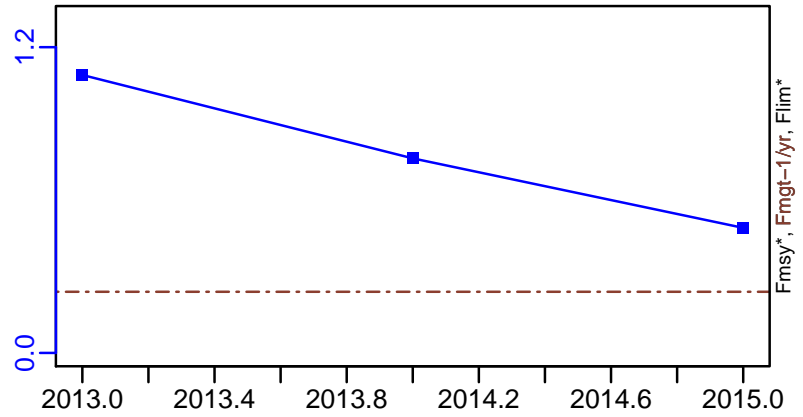
SSB-MT (2013-2015-OSIO)



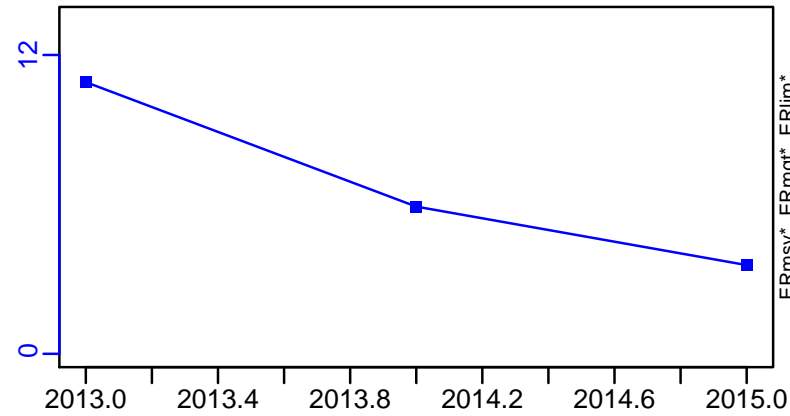
TN \*



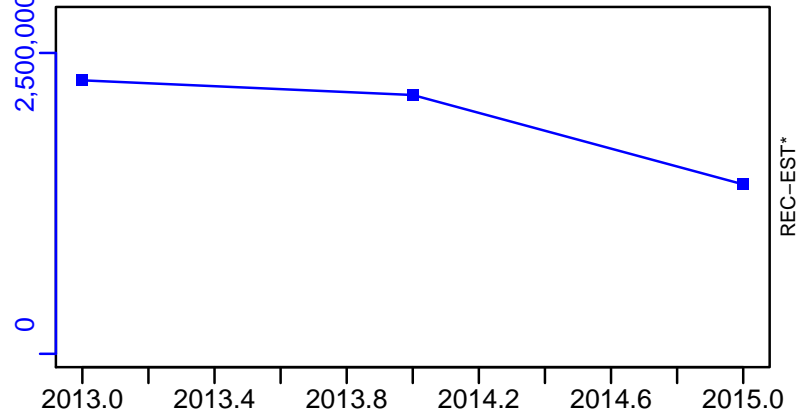
F-1/yr (2013-2015-OSIO)



ER-calc-ratio (2013-2015-OSIO)



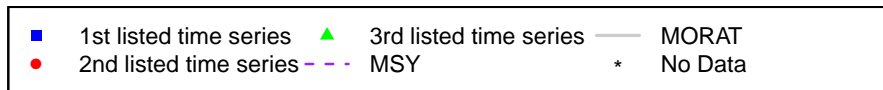
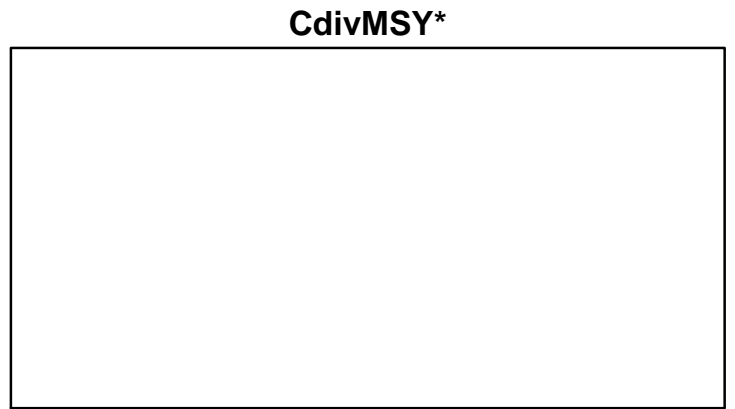
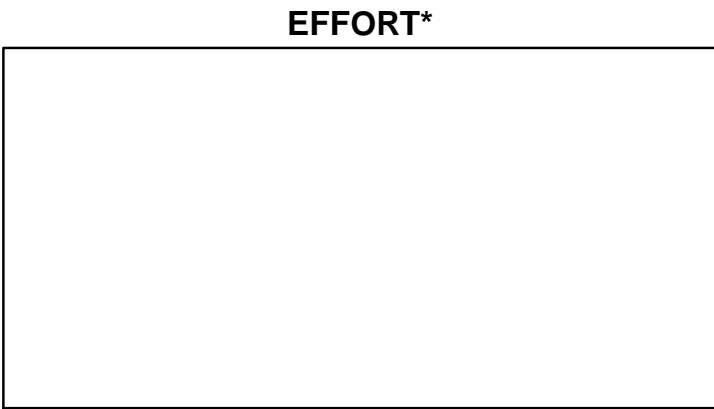
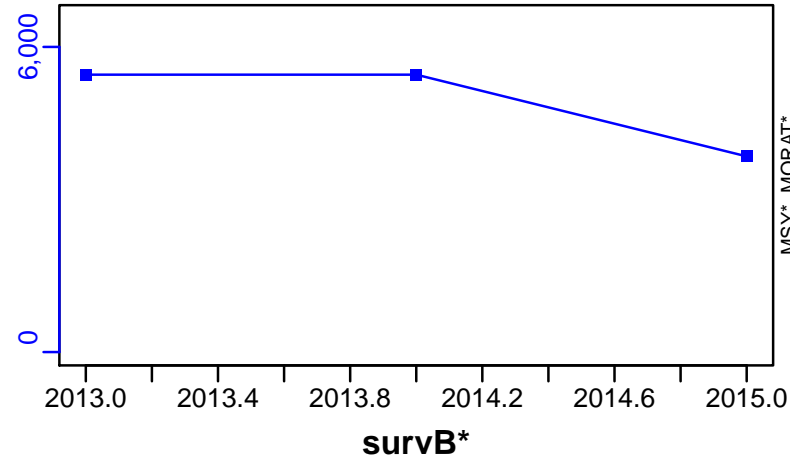
R-E00 (2013-2015-OSIO)



# White anglerfish Geographical Sub-Areas 1–7 [WANGLGSA1–7]

TL–MT, TC\*, RecC\* (2013–2015–OSIO)

TAC\*, Cpair\*, Cadv\*



## Whiting Black Sea [WHITMEDGSA29]

Metadata	
<b>Scientific Name</b>	Merlangius merlangus
<b>Current Assess ID</b>	STECF-WHITMEDGSA29-1994-2014-OSIO
<b>Area</b>	Black Sea
<b>Management Authority</b>	General Fisheries Council for the Mediterranean, DG MARE, and national states
<b>Assessor</b>	Scientific, Technical and Economic Committee for Fisheries
<b>Asmts in RAM</b>	2011, 2014

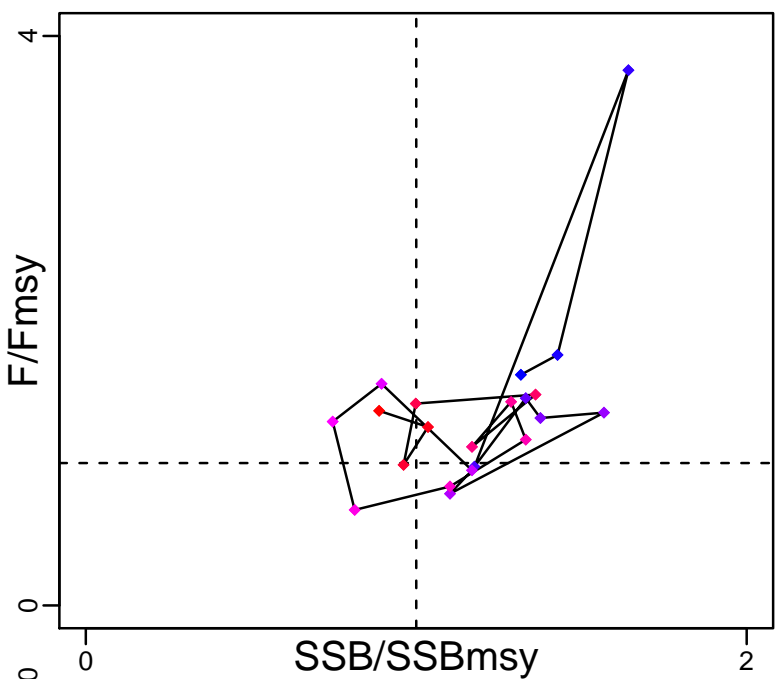
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2014	13,519
<b>Fmsy</b>	Fmsy-1/yr	2014	0.79
<b>ERmsy</b>	ERmsy-est-ratio	2014	0.292
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2014	0.79
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2014	9933
<b>M</b>	M-1/yr	2011	0.46
<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-MT	2014	12,000	-	1+
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$2.32 \times 10^8$	-	-
<b>F</b>	F-1/yr	2014	1.08	-	-
<b>ER</b>	ER-calc-ratio	2014	0.293	-	-
<b>TC</b>	TC-MT	2014	8860		
<b>TL</b>	TL-MT	2011	8250		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2014	0.888		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	1.367		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2014	1.005		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.367		
<b>ER/ERmgt</b>	-	-	-		

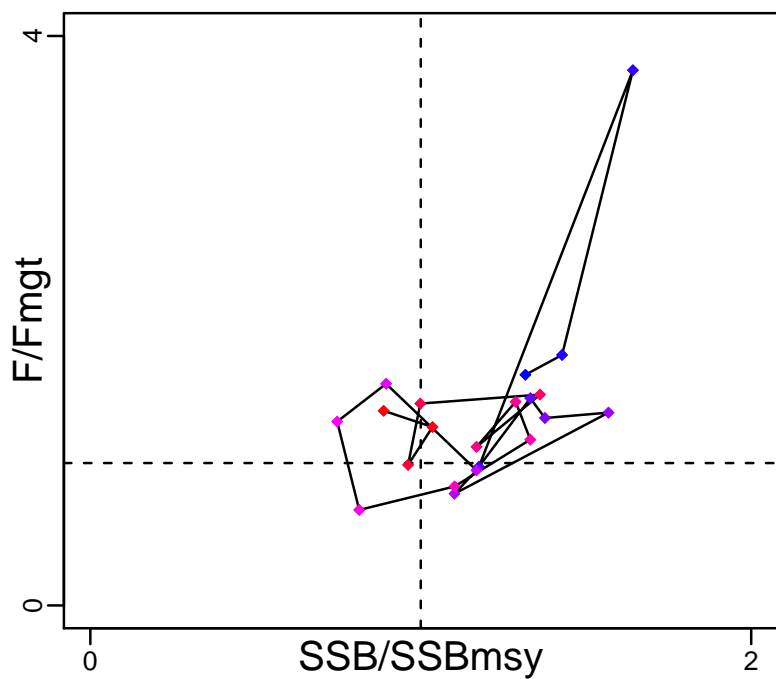


# Whiting Black Sea [WHITMEDGSA29]

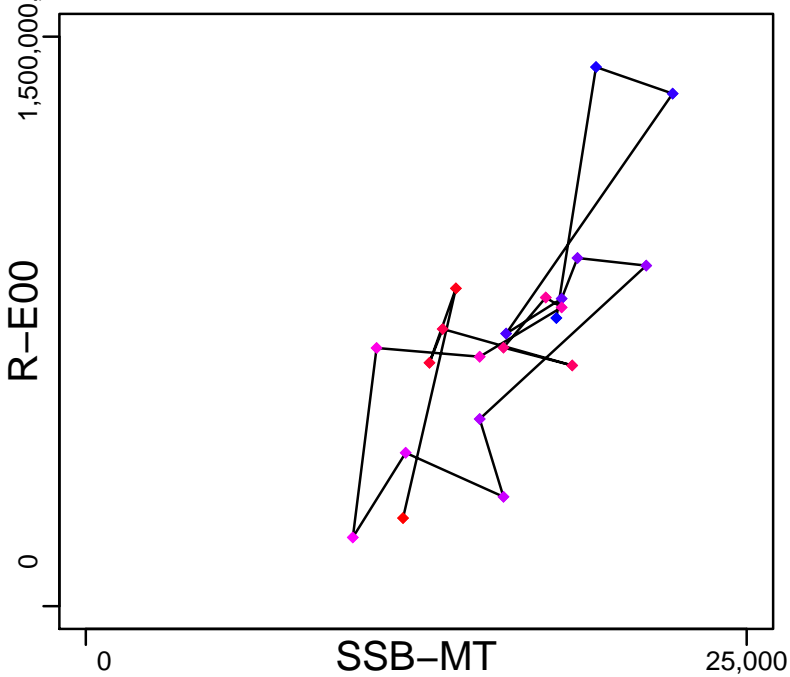
Kobe MSYpref (1994–2014–OSIO)



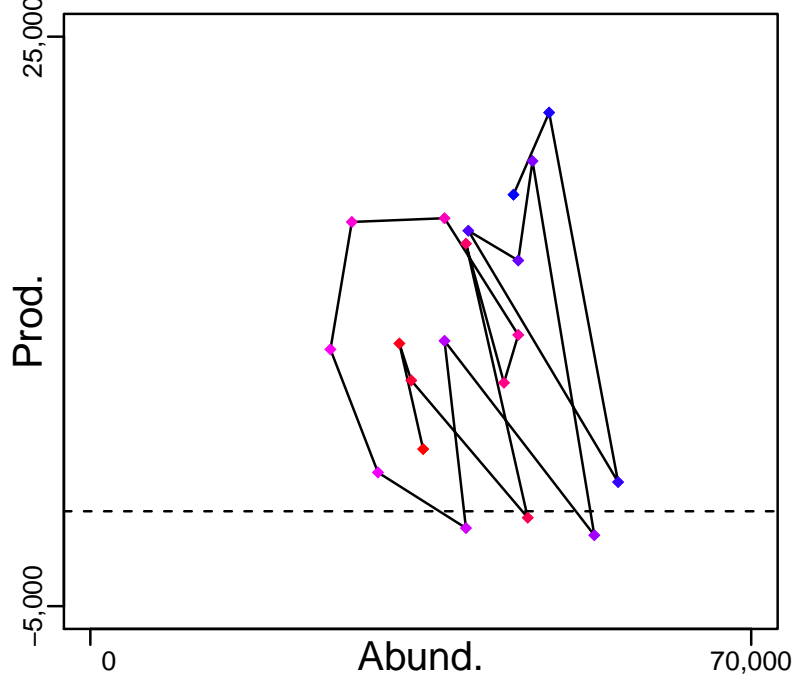
Kobe MGTpref (1994–2014–OSIO)



Spawner Recruit (1994–2014–OSIO)



Production (1994–2014–OSIO)



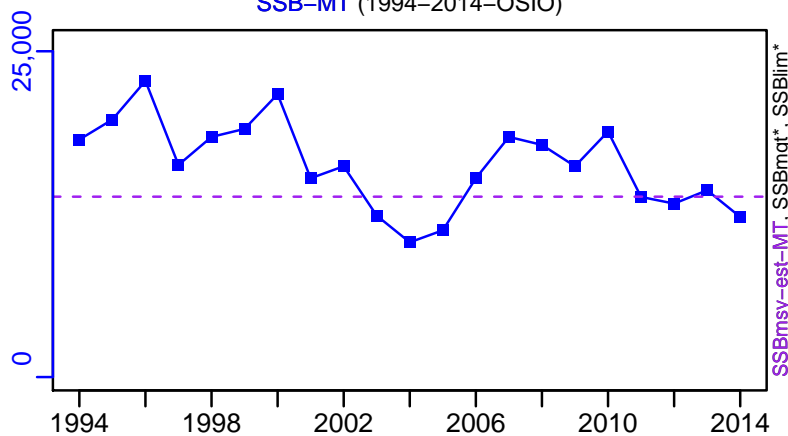
◆ Start Year ◆ End Year \* No Data

# Whiting Black Sea [WHITMEDGSA29]

TB\*



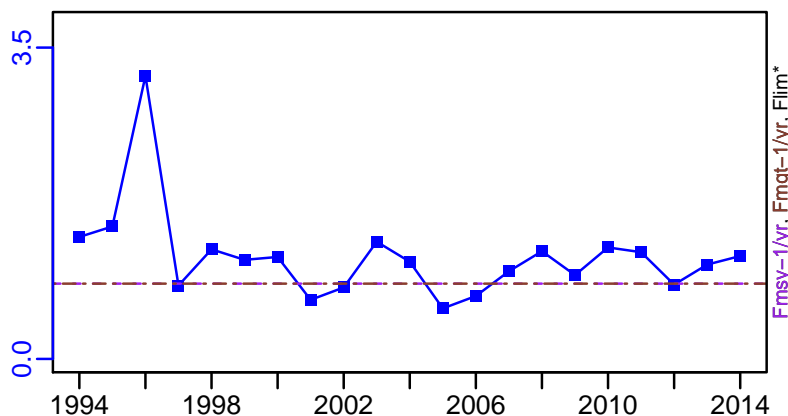
SSB-MT (1994–2014–OSIO)



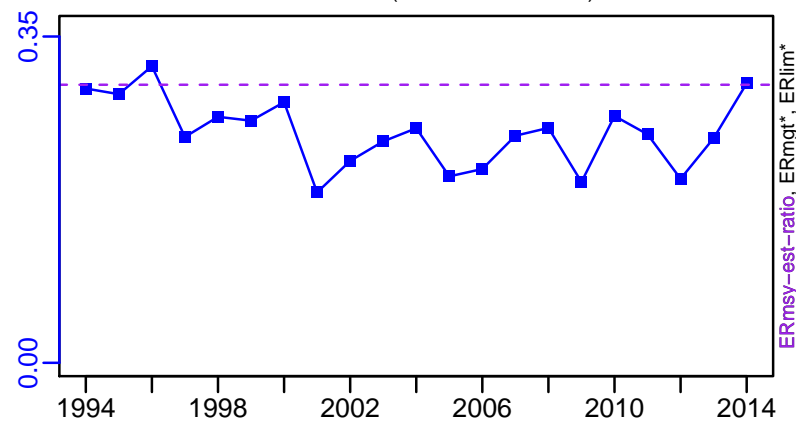
TN \*



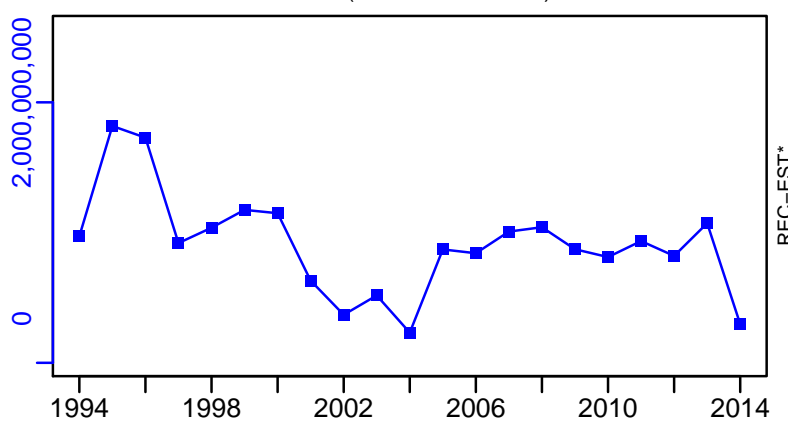
F-1/yr (1994–2014–OSIO)



ER-calc-ratio (1994–2014–OSIO)



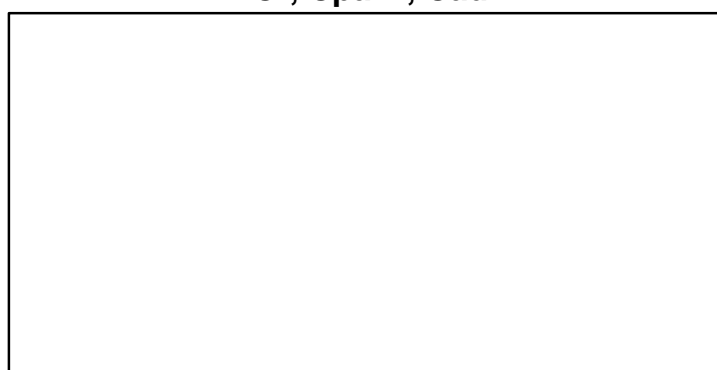
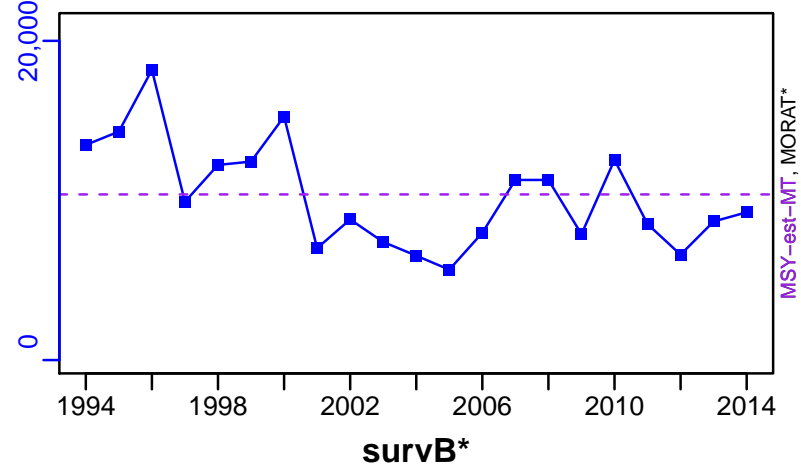
R-E00 (1994–2014–OSIO)



# Whiting Black Sea [WHITMEDGSA29]

TC-MT, TL\*, RecC\* (1994–2014–OSIO)

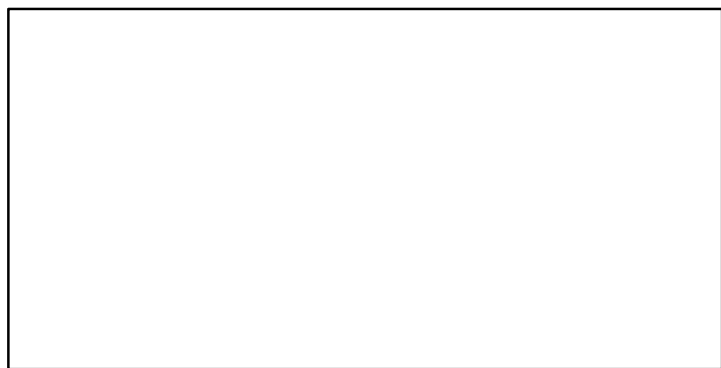
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1994–2014–OSIO)

