

Mediterranean-Black Sea Stocks

v4.491 (Jan-06-2020)

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 |

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|--|--------|------|--------|------|
| 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]

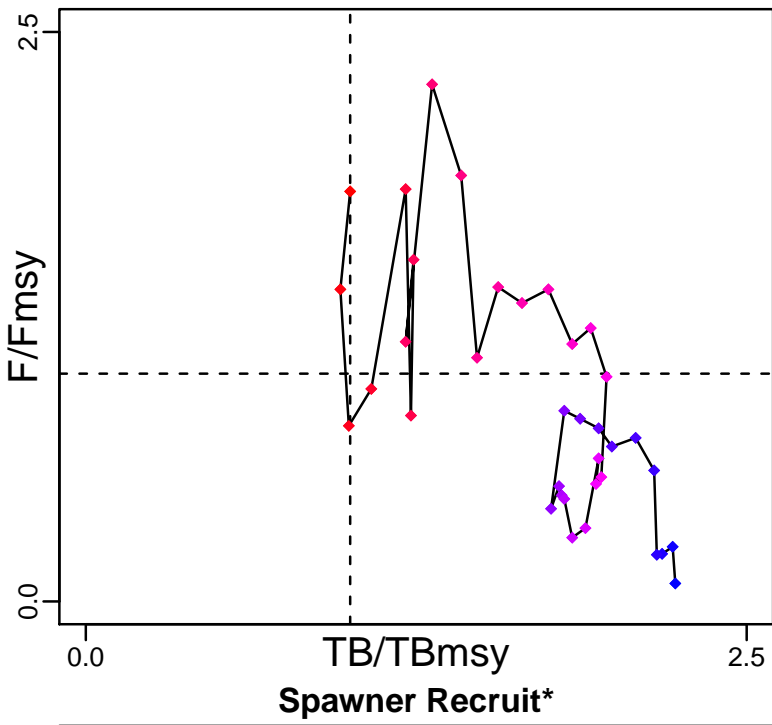
| Metadata | |
|-----------------------------|---|
| Scientific Name | Thunnus alalunga |
| Current Assess ID | ICCAT-ALBAMED-1951-2016-PONS |
| Area | Mediterranean Sea |
| Management Authority | International Commission for the Conservation of Atlantic Tunas |
| Assessor | International Commission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

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

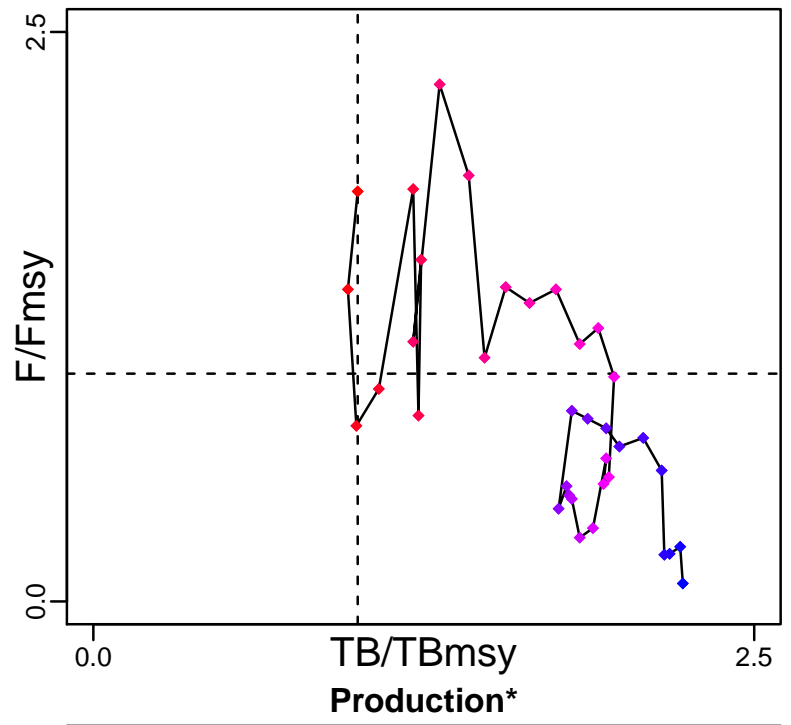
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 319,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | -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

Albacore tuna Mediterranean Sea [ALBAMED]

Kobe MSYpref (1951–2016–PONS)



Kobe MGTpref (1951–2016–PONS)

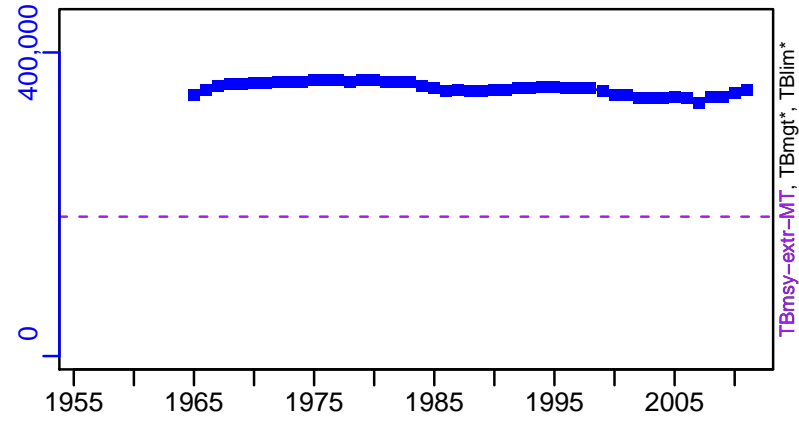


◆ Start Year ◆ End Year * No Data

Albacore tuna Mediterranean Sea [ALBAMED]

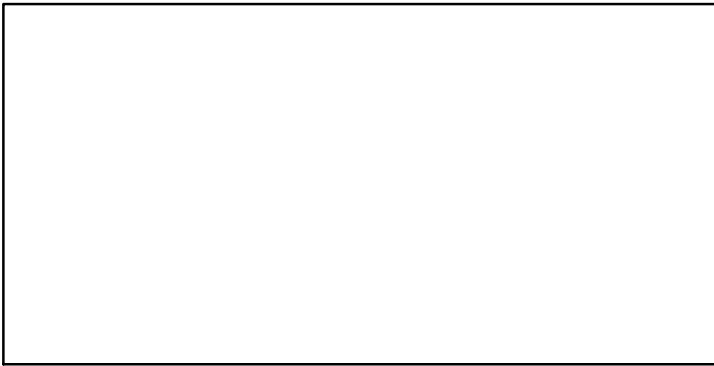
TB-MT (1956-2011-CHING)

SSB*



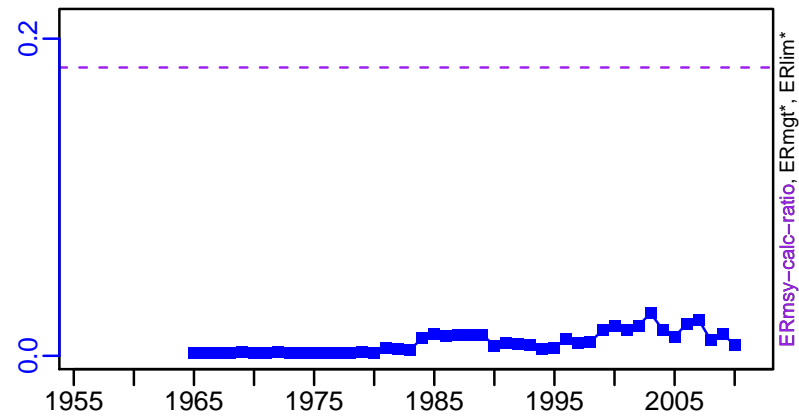
TN *

F*



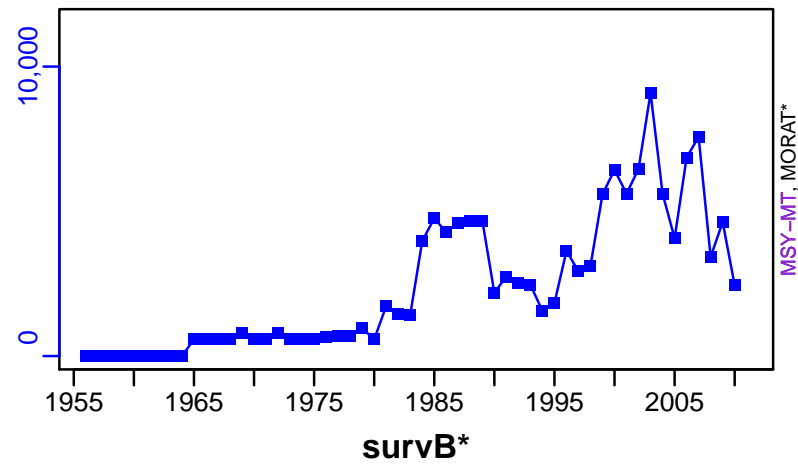
ER-calc-ratio (1956-2011-CHING)

Recruits*



Albacore tuna Mediterranean Sea [ALBAMED]

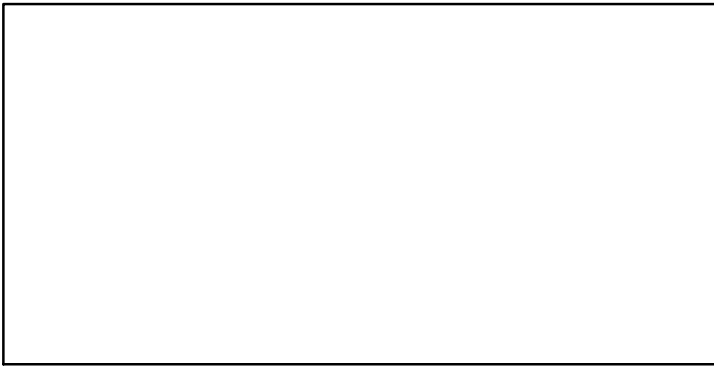
TC-MT, TL*, RecC* (1956–2011–CHING)



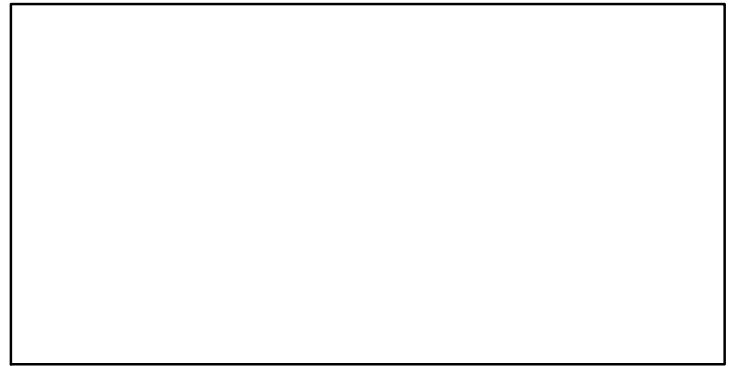
TAC*, Cpair*, Cadv*



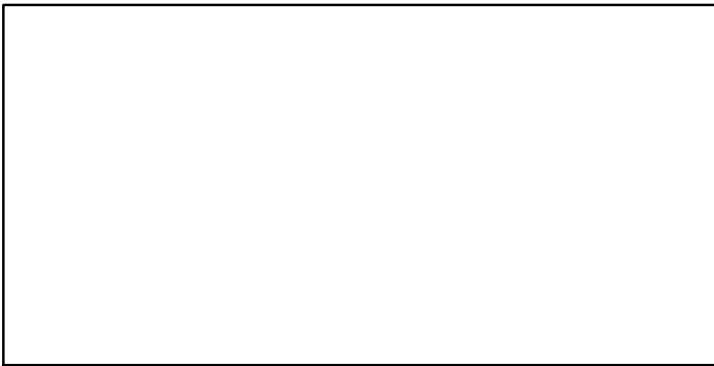
survB*



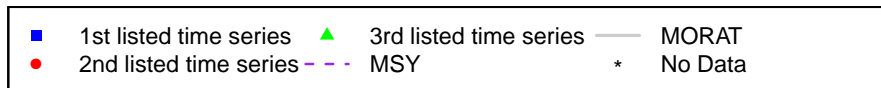
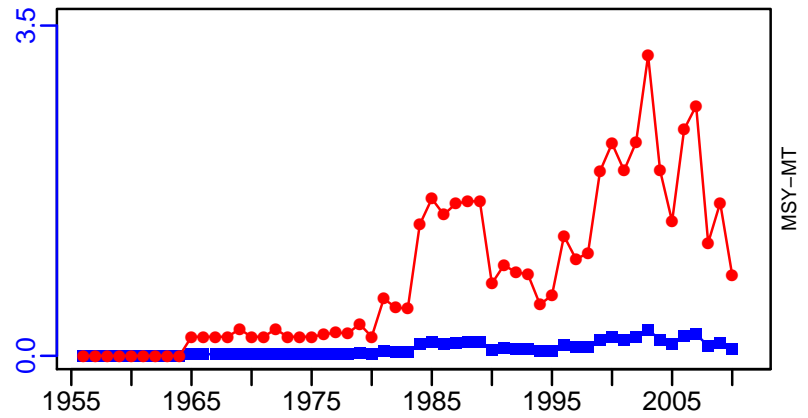
CPUE*



EFFORT*



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



Anchovy Northern Alboran Sea [ANCHMEDGSA1]

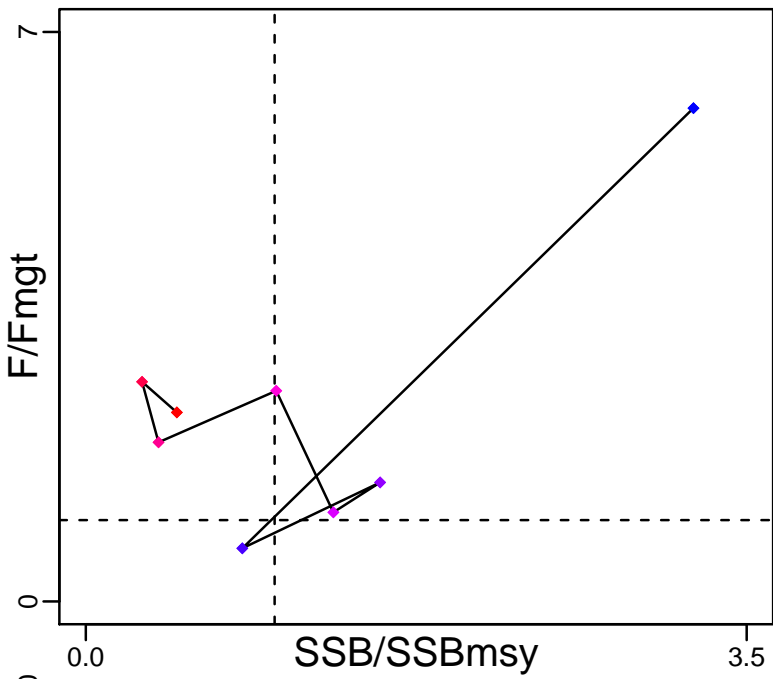
| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA1-2002-2009-OSIO |
| Area | Northern Alboran Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2009 | 1091 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2009 | 0.202 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2009 | 0.452 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2009 | 354 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

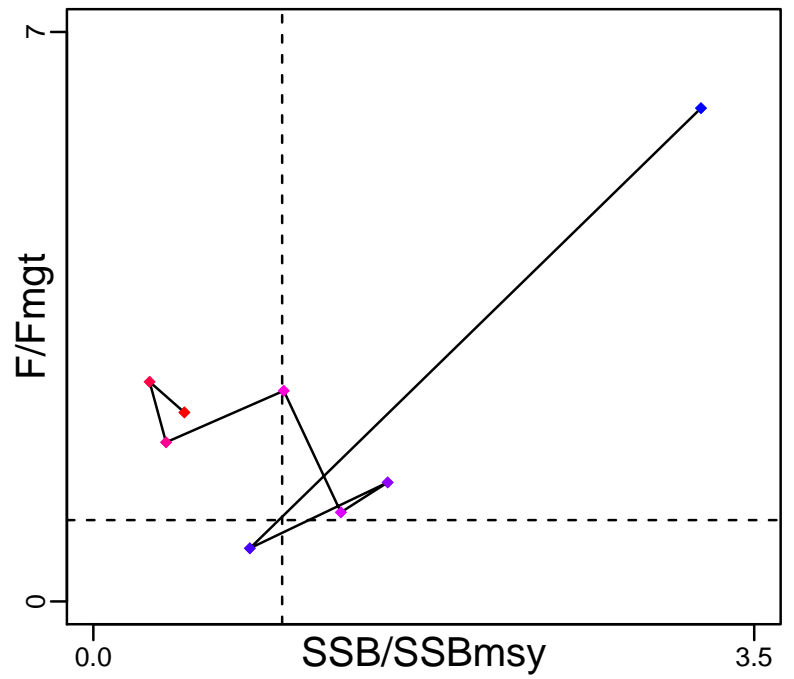
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2009 | 526 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2009 | 1.56×10^8 | - | - |
| F | F-1/yr | 2009 | 1.05 | - | - |
| ER | ER-calc-ratio | 2009 | 0.345 | - | - |
| TC | TC-MT | 2009 | 292 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2009 | 0.482 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2009 | 1.708 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2009 | 2.324 | | |
| ER/ERmgt | - | - | - | | |

Anchovy Northern Alboran Sea [ANCHMEDGSA1]

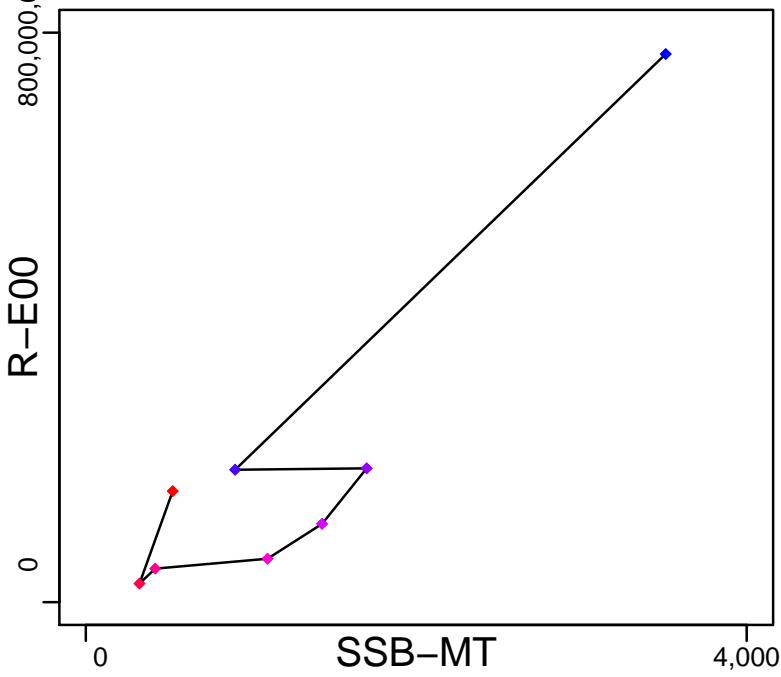
Kobe MSYpref (2002–2009–OSIO)



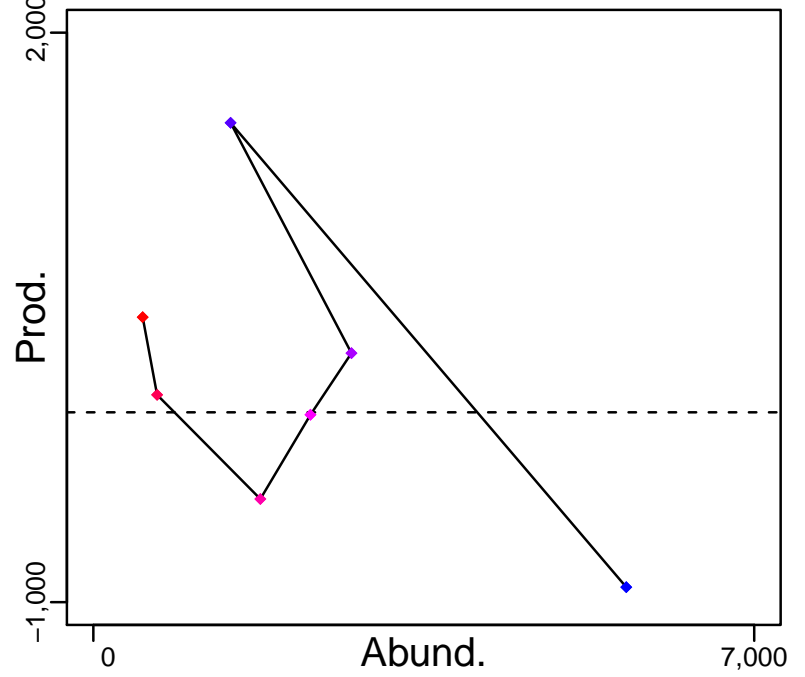
Kobe MGTpref (2002–2009–OSIO)



Spawner Recruit (2002–2009–OSIO)



Production (2002–2009–OSIO)



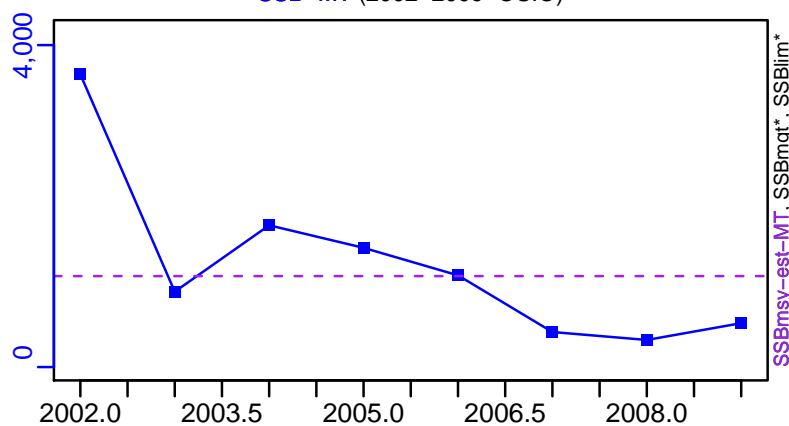
◆ Start Year ◆ End Year * No Data

Anchovy Northern Alboran Sea [ANCHMEDGSA1]

TB*



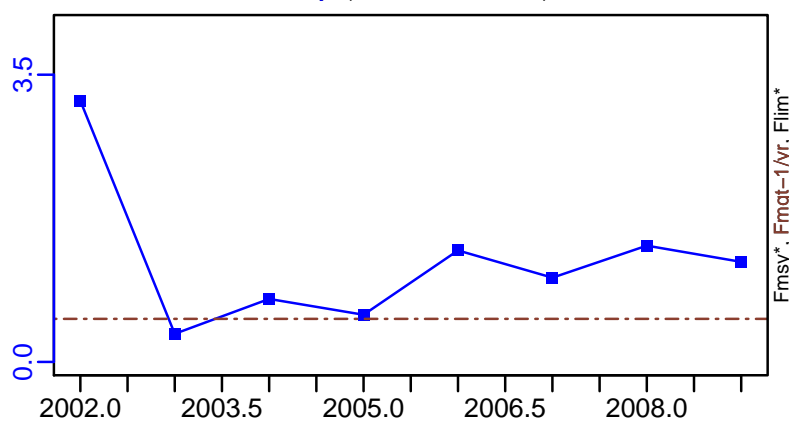
SSB-MT (2002-2009-OSIO)



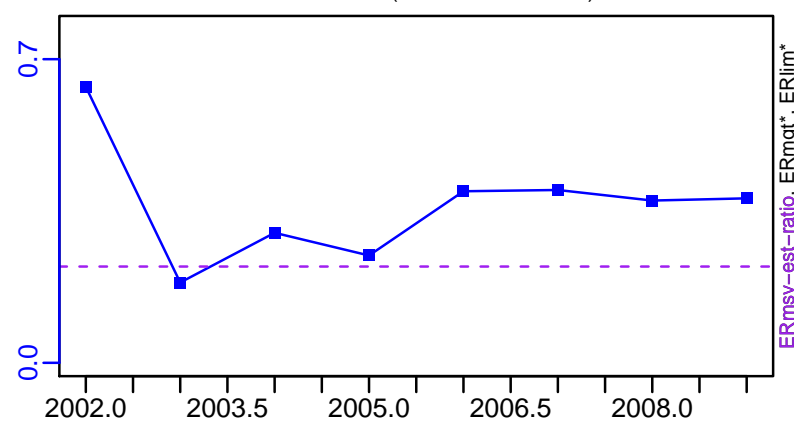
TN *



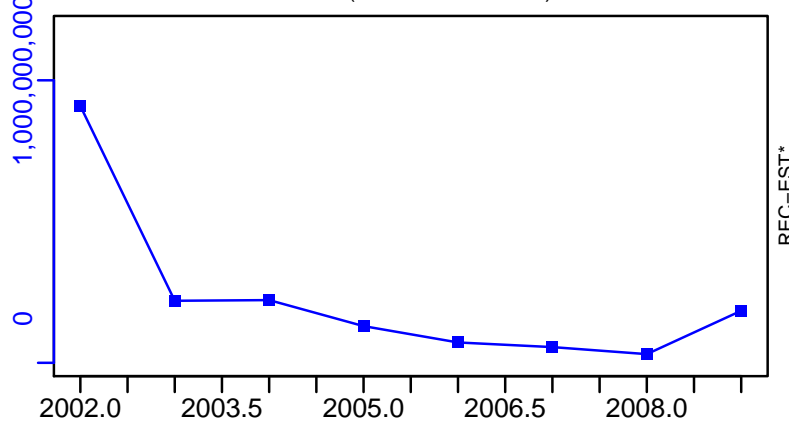
F-1/yr (2002-2009-OSIO)



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



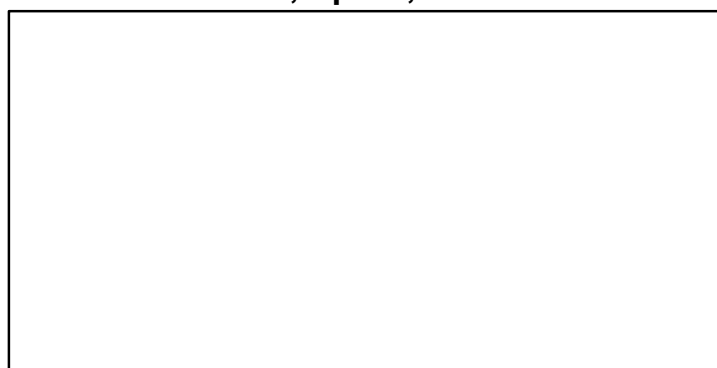
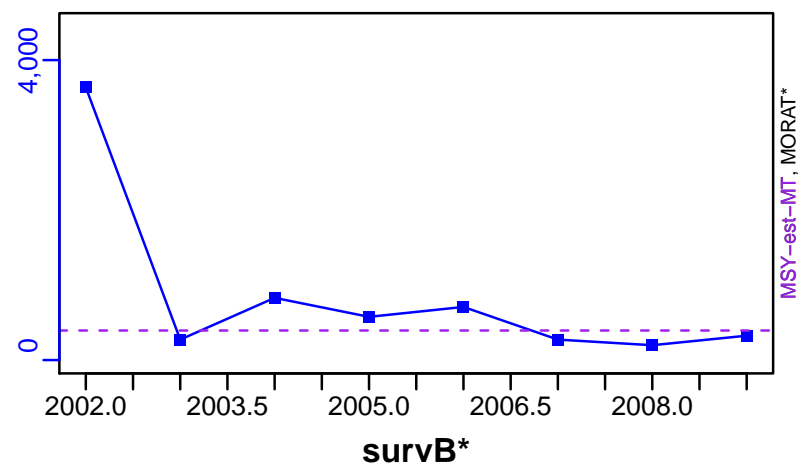
R-E00 (2002-2009-OSIO)



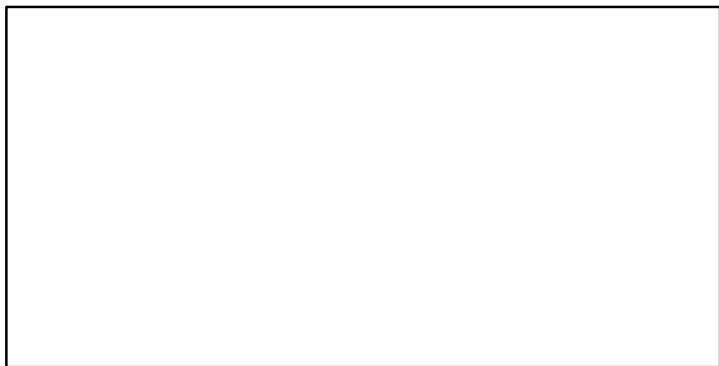
Anchovy Northern Alboran Sea [ANCHMEDGSA1]

TC-MT, TL*, RecC* (2002–2009–OSIO)

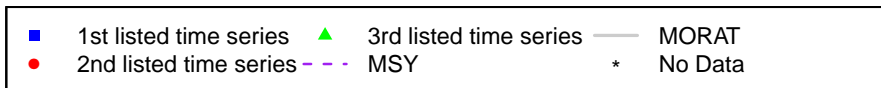
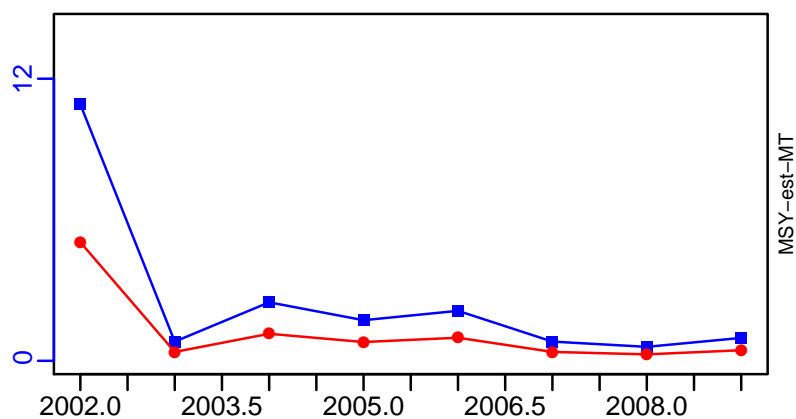
TAC*, Cpair*, Cadv*



EFFORT*



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



Anchovy South of Sicily [ANCHMEDGSA16]

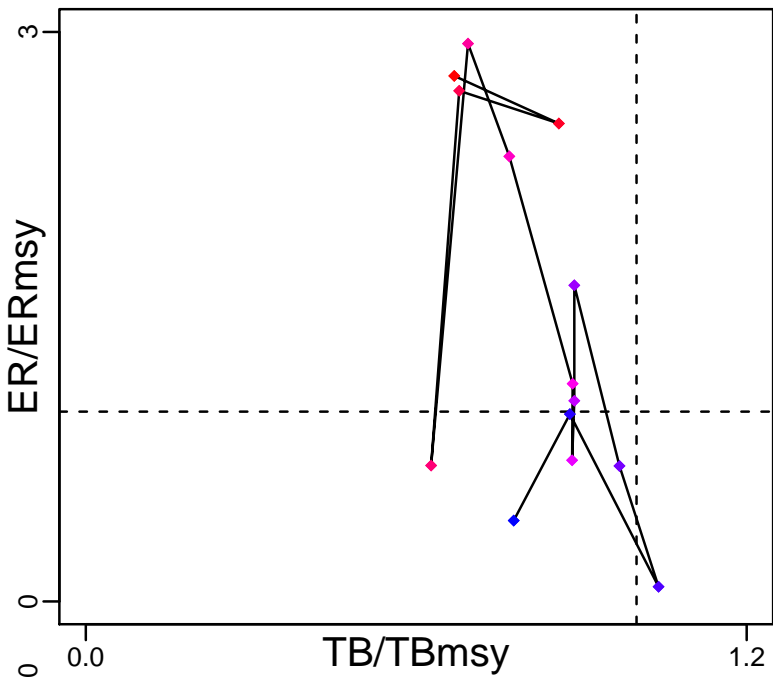
| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA16-2004-2011-OSIO |
| Area | South of Sicily |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|------------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2011 | 14,152 |
| SSBmsy | SSBmsy-est-MT | 2011 | 8349 |
| Fmsy | Fmsy-1/yr | 2011 | 0.17 |
| ERmsy | ERmsy-calc-ratio | 2011 | 0.167 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.08 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2011 | 2359 |
| M | M-1/yr | 2011 | 0.66 |
| TBlim | TBlim-MT | 2011 | 3130 |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

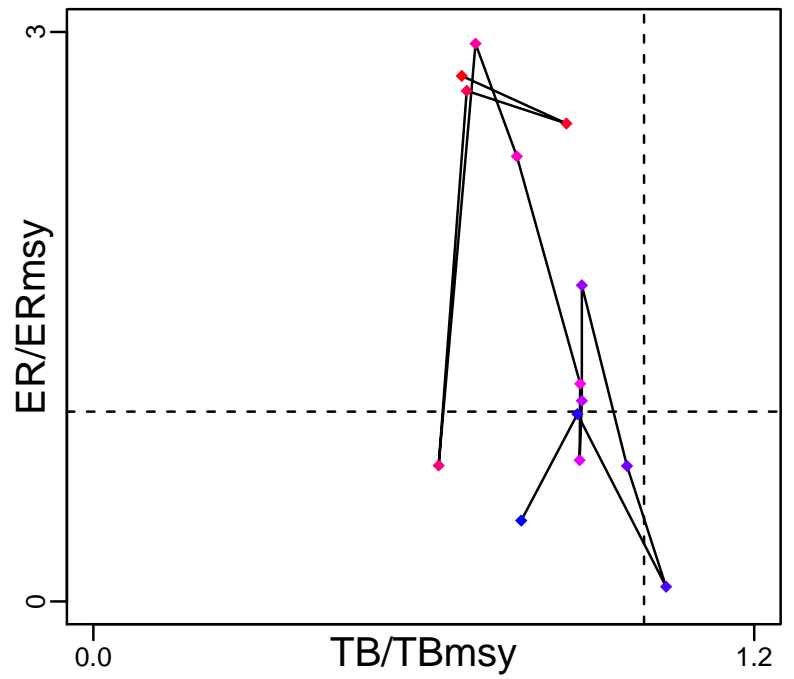
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|--------------------|-----|--------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 9470 | - | - |
| SSB | SSB-MT | 2011 | 10,700 | - | 0 to 5 |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 3.79×10^8 | - | - |
| F | F-1/yr | 2011 | 0.275 | - | - |
| ER | ER-calc-ratio | 2011 | 0.461 | - | - |
| TC | TC-MT | 2011 | 4370 | | |
| TL | - | - | - | | |
| TB/TBmsy | TBdivTBmsy-dimensionless | 2011 | 0.669 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2011 | 1.282 | | |
| F/Fmsy | FdivFmsy-dimensionless | 2011 | 1.62 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-calc-ratio | 2011 | 2.768 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 9 | | |
| ER/ERmgt | - | - | - | | |

Anchovy South of Sicily [ANCHMEDGSA16]

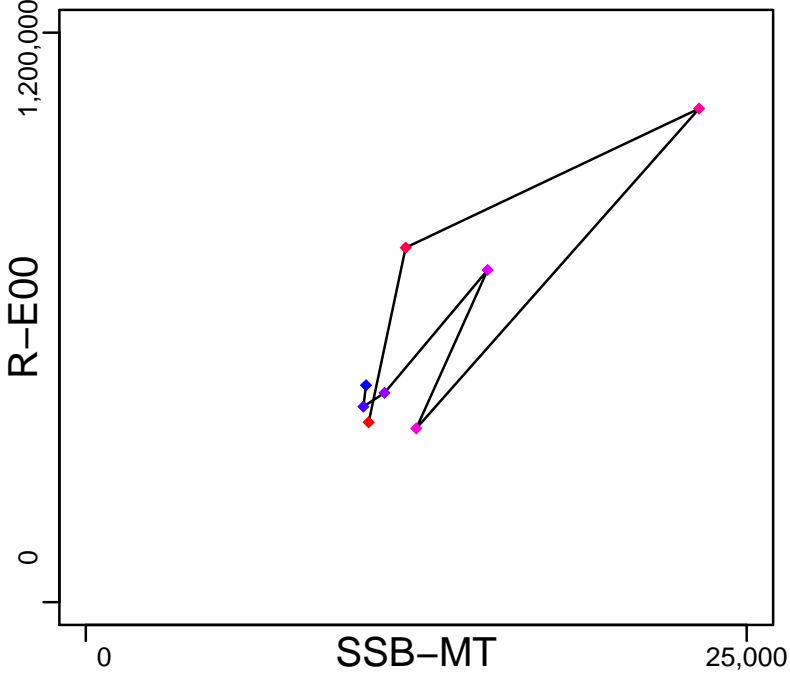
Kobe MSYpref (1998–2011–BANOB1)



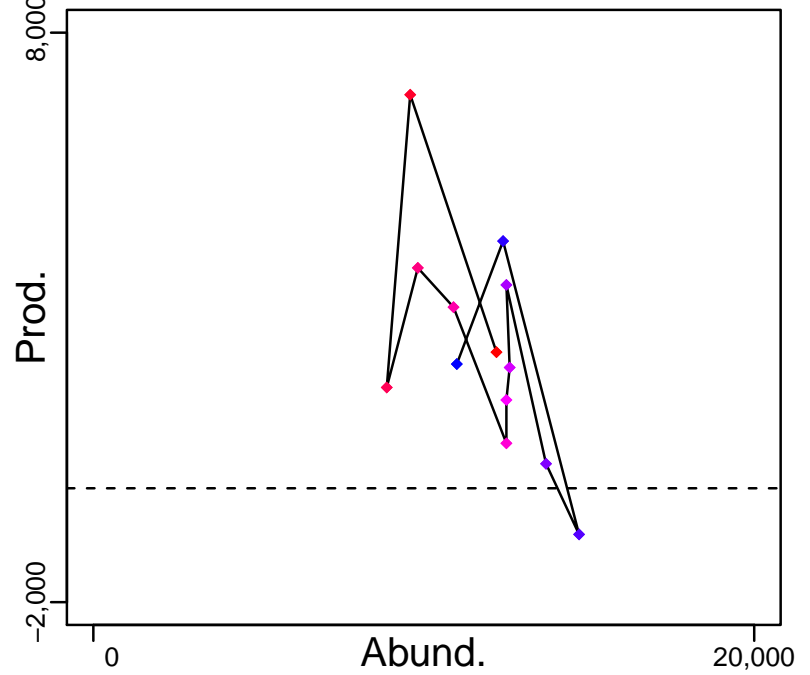
Kobe MGTpref (1998–2011–BANOB1)



Spawner Recruit (2004–2011–OSIO)



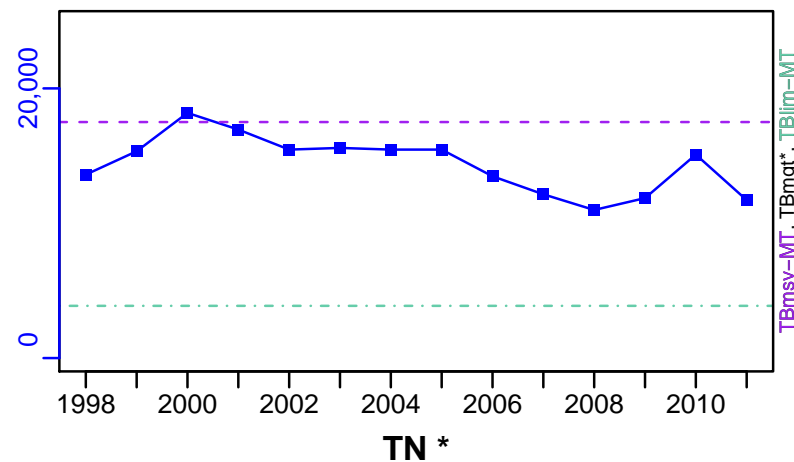
Production (1998–2011–BANOB1)



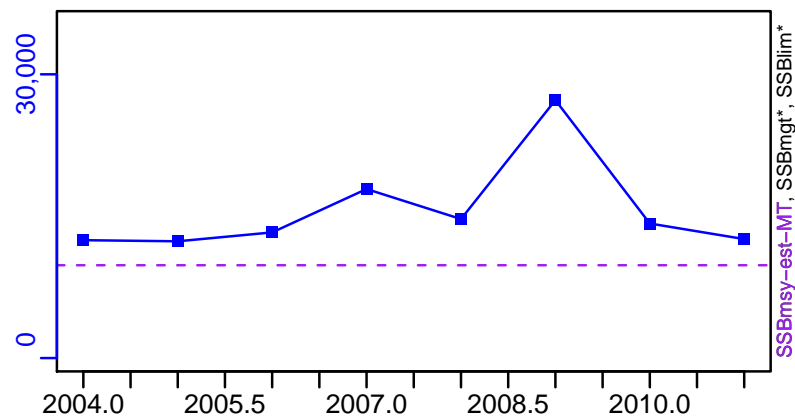
◆ Start Year ◆ End Year * No Data

Anchovy South of Sicily [ANCHMEDGSA16]

TB-MT (1998–2011–BANOB1)



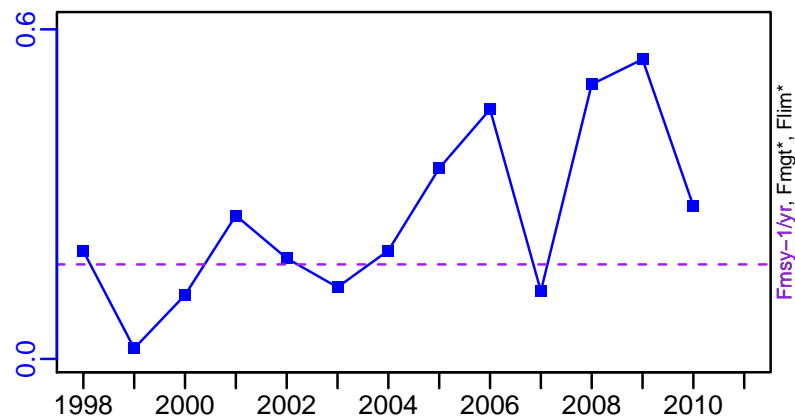
SSB-MT (2004–2011–OSIO)



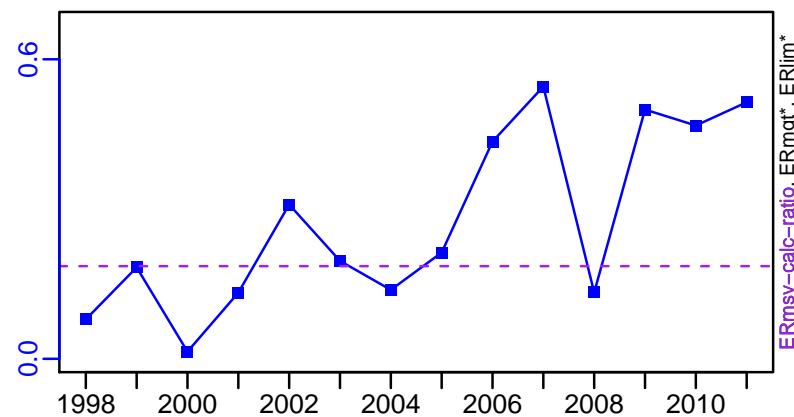
TN *



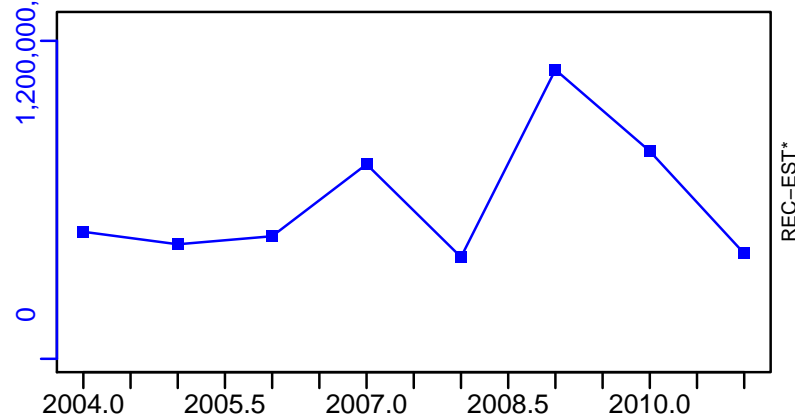
F-1/yr (1998–2011–BANOB1)



ER-calc-ratio (1998–2011–BANOB1)

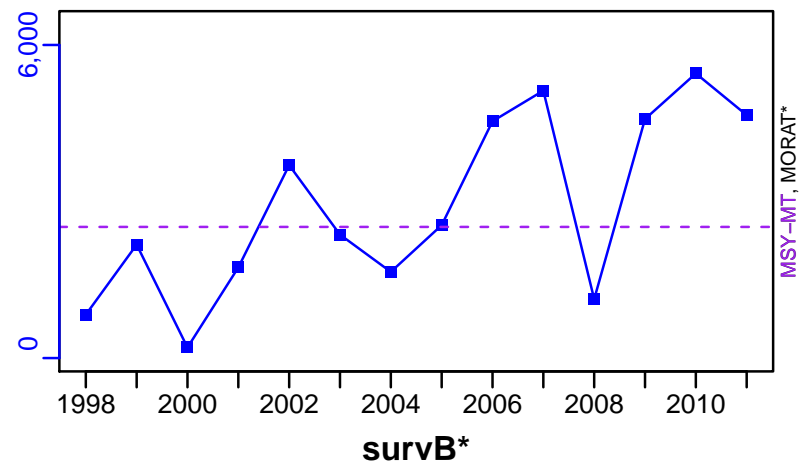


R-E00 (2004–2011–OSIO)



Anchovy South of Sicily [ANCHMEDGSA16]

TC-MT, TL*, RecC* (1998–2011–BANOB)



TAC*, Cpair*, Cadv*



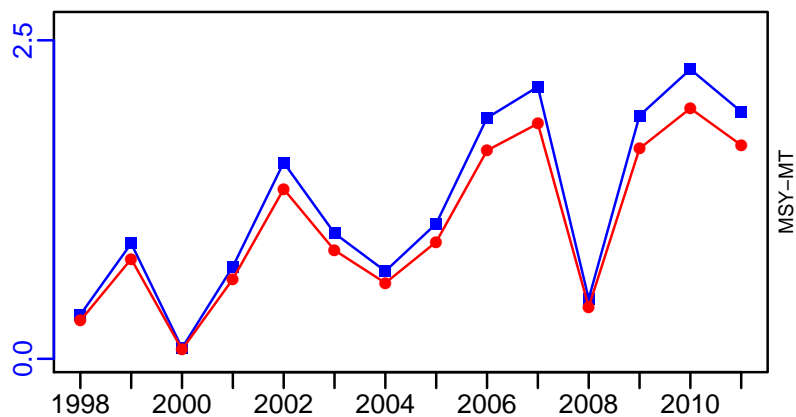
CPUE*



EFFORT*



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



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

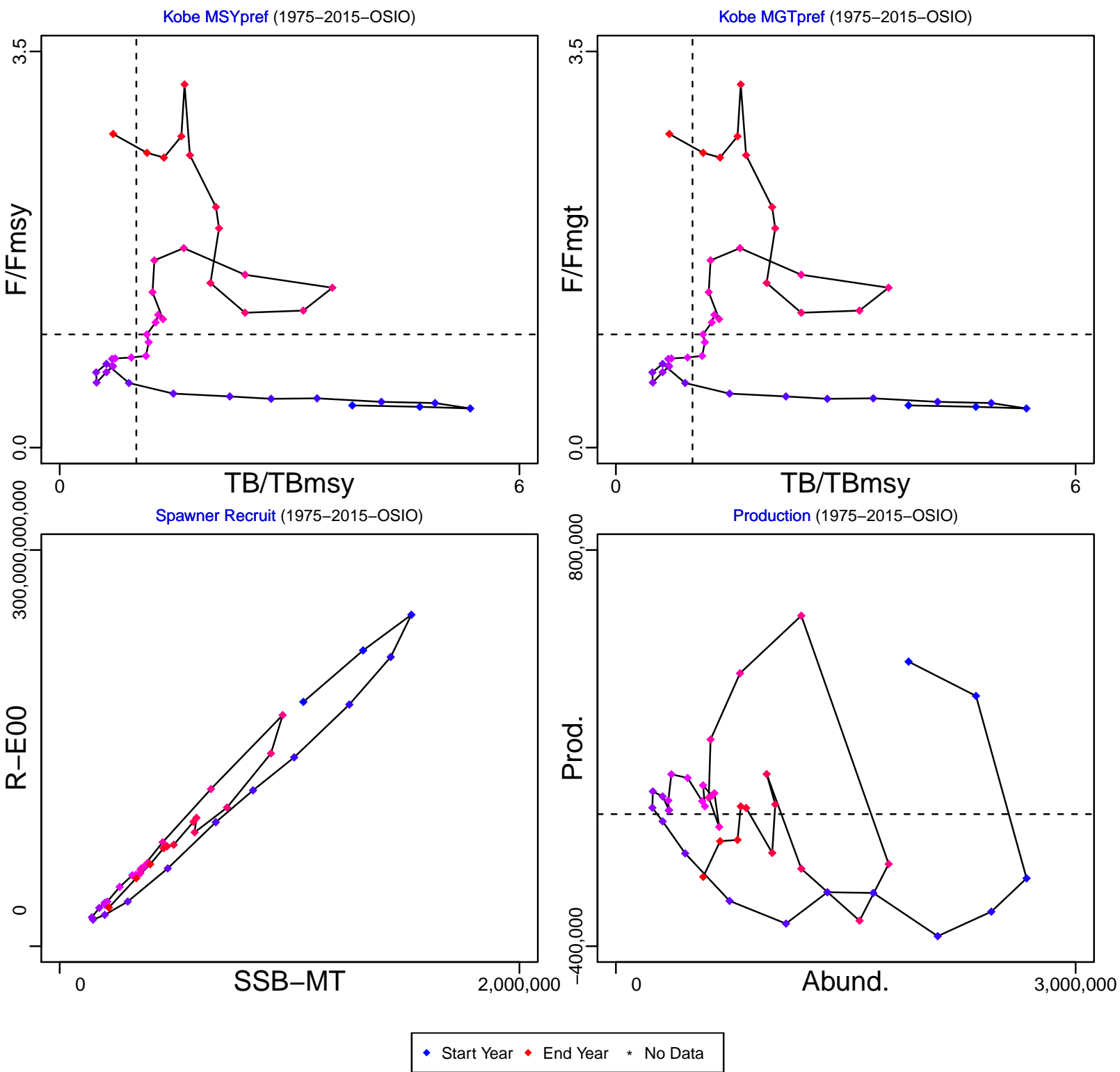
Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]

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

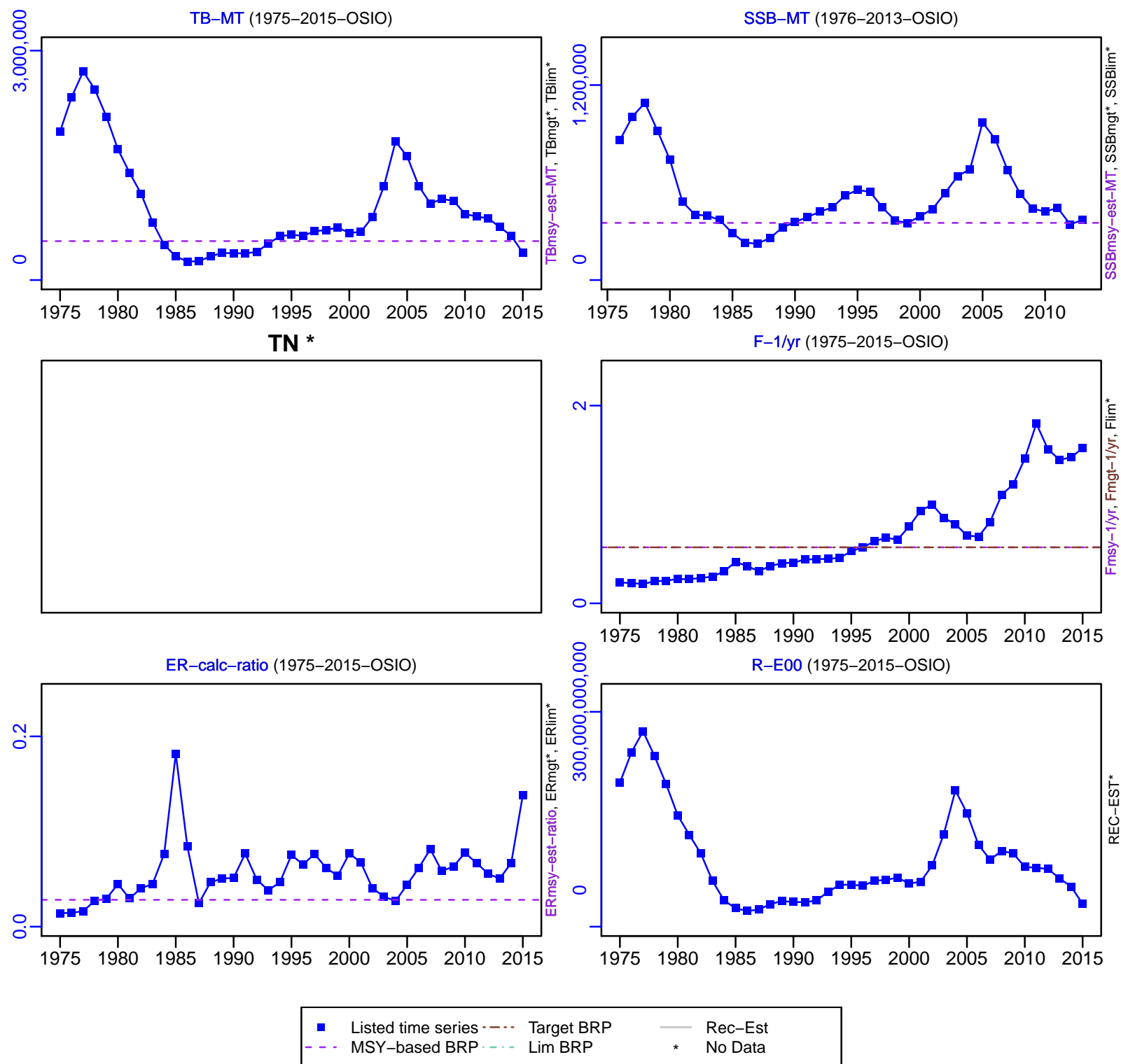
| Reference Points | | | |
|------------------|-----------------|-----------|---------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2015 | 500,149 |
| SSBmsy | SSBmsy-est-MT | 2013 | 293,630 |
| Fmsy | Fmsy-1/yr | 2015 | 0.48 |
| ERmsy | ERmsy-est-ratio | 2015 | 0.023 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.48 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2015 | 11,507 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 349,000 | - | - |
| SSB | SSB-MT | 2015 | 214,000 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 2.93×10^{10} | - | - |
| F | F-1/yr | 2015 | 1.33 | - | - |
| ER | ER-calc-ratio | 2015 | 0.113 | - | - |
| TC | TC-MT | 2015 | 39,400 | | |
| TL | TL-MT | 2015 | 39,400 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2015 | 0.698 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 1.052 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 2.771 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2015 | 4.907 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 2.771 | | |
| ER/ERmgt | - | - | - | | |

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

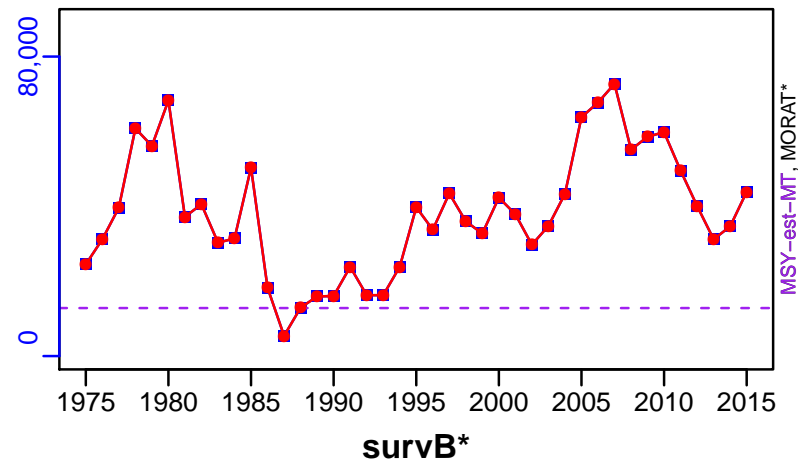


Anchovy Adriatic Sea (GSA 17,18) [ANCHMEDGSA17-18]



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

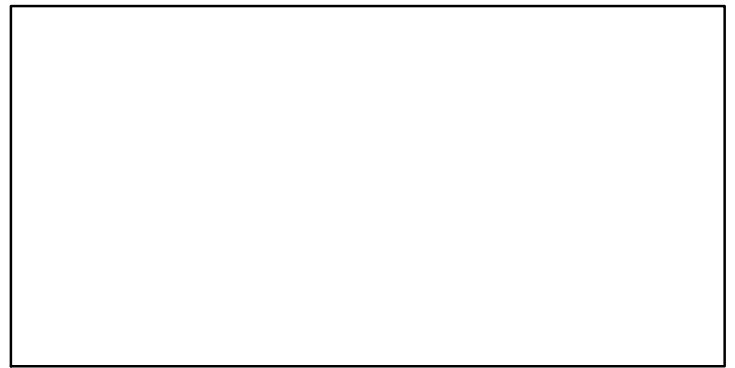
TC-MT, TL-MT, RecC* (1975-2015-OSIO)



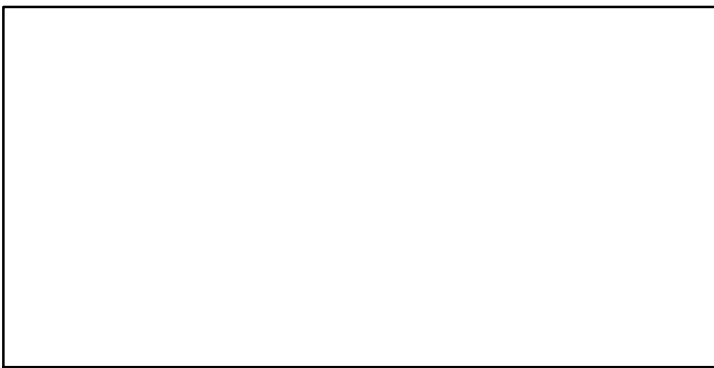
TAC*, Cpair*, Cadv*



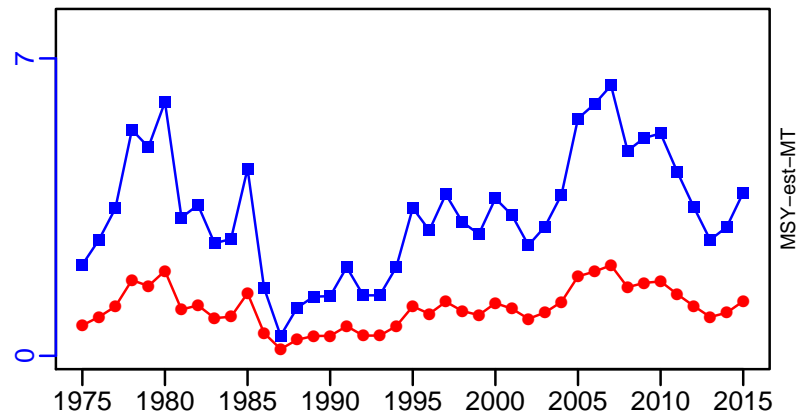
CPUE*



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 | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA19-2006-2012-OSIO |
| Area | Western Ionian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 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*

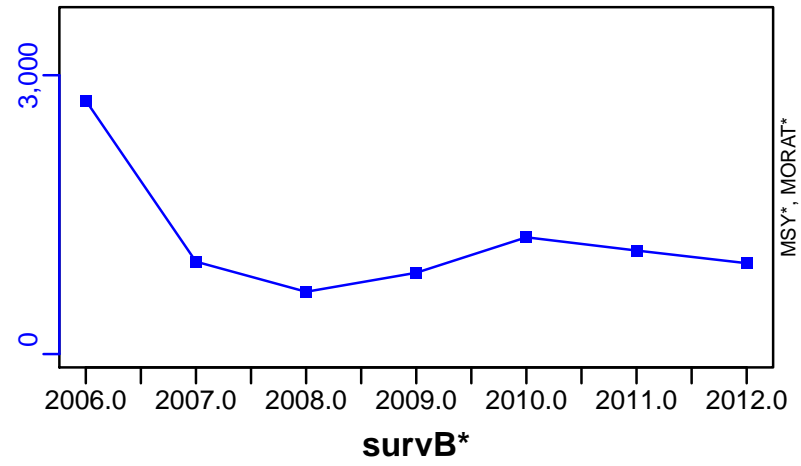


Recruits*



Anchovy Western Ionian Sea [ANCHMEDGSA19]

TC-MT, TL*, RecC* (2006–2012–OSIO)



TAC*, Cpair*, Cadv*



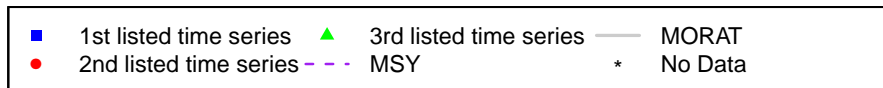
CPUE*



EFFORT*



CdivMSY*

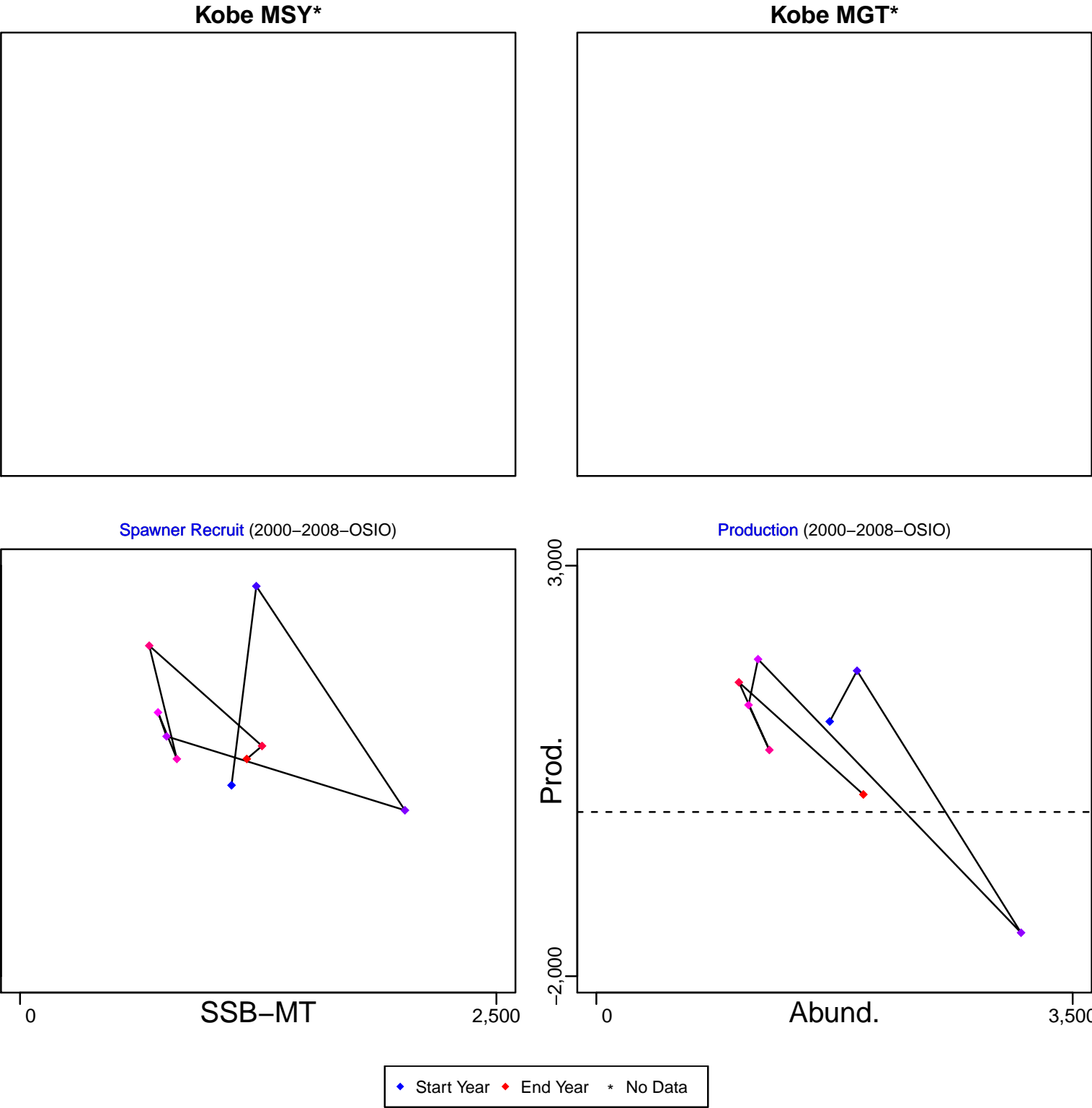


Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA20-2000-2008-OSIO |
| Area | Eastern Ionian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 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 | 6.35×10^8 | - | - |
| F | F-1/yr | 2008 | 0.814 | - | - |
| ER | ER-calc-ratio | 2008 | 0.713 | - | - |
| TC | TC-MT | 2008 | 1310 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

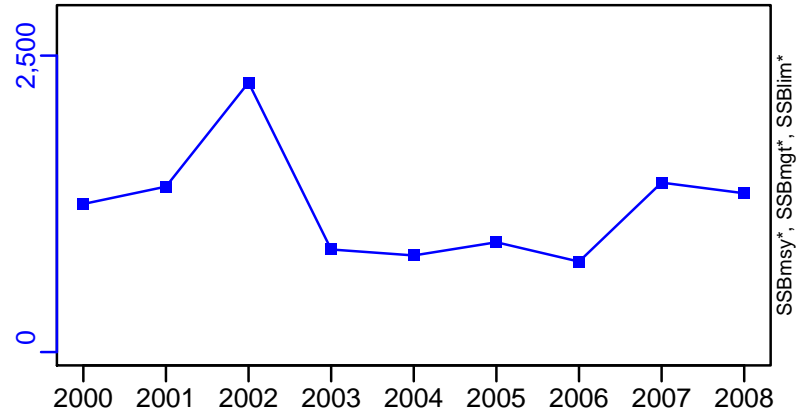


Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

TB*



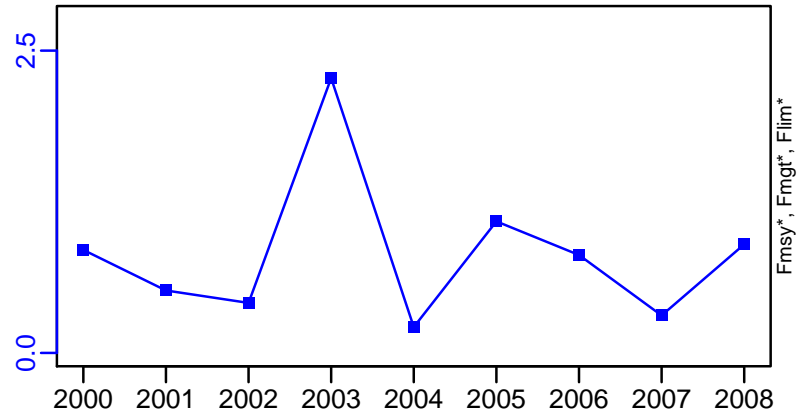
SSB-MT (2000–2008–OSIO)



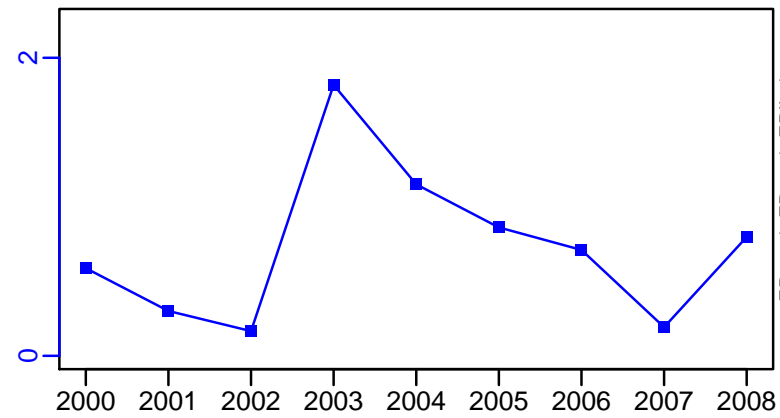
TN *



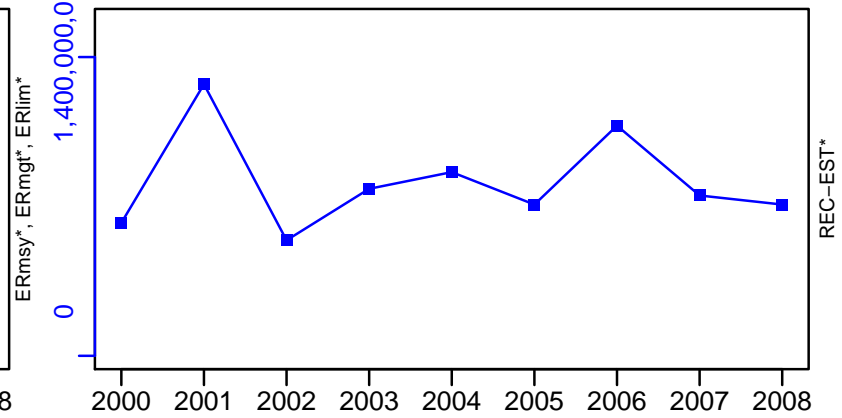
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

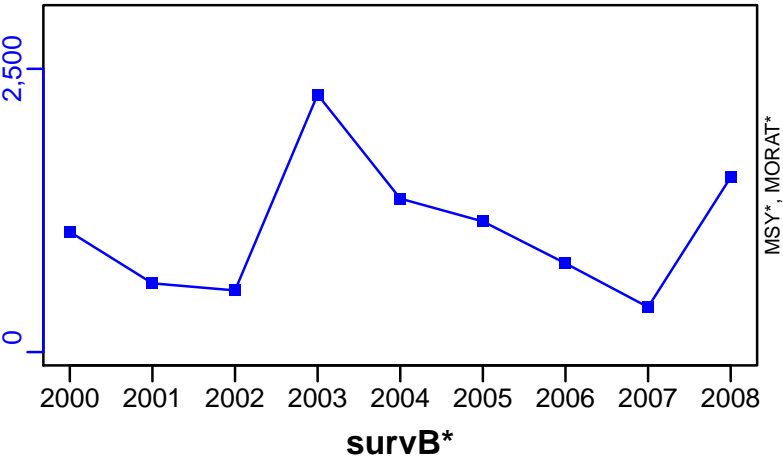


R-E00 (2000–2008–OSIO)



Anchovy Eastern Ionian Sea [ANCHMEDGSA20]

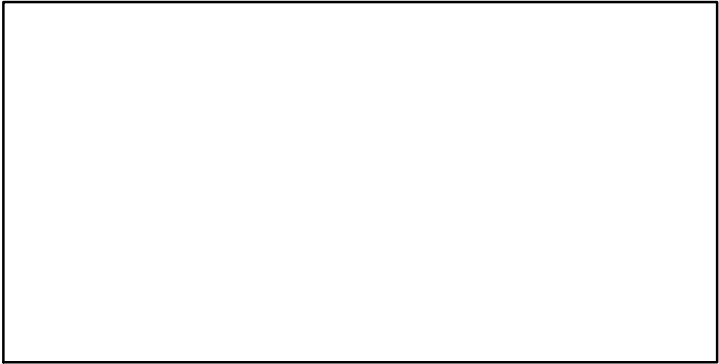
TC-MT, TL*, RecC* (2000–2008–OSIO)



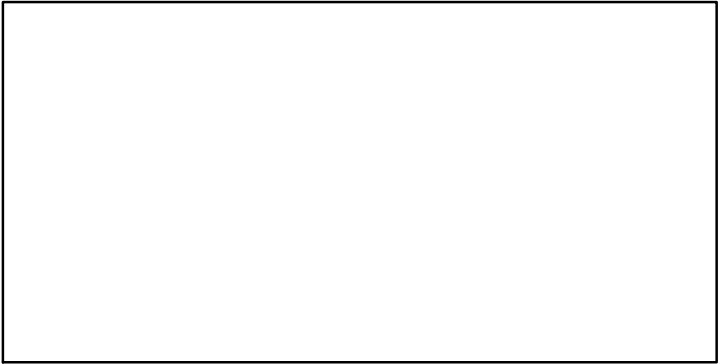
TAC*, Cpair*, Cadv*



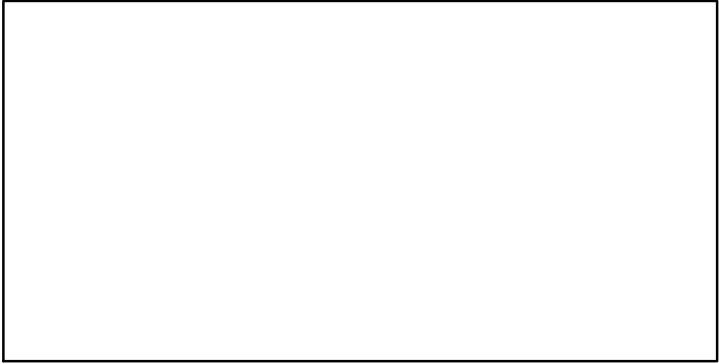
survB*



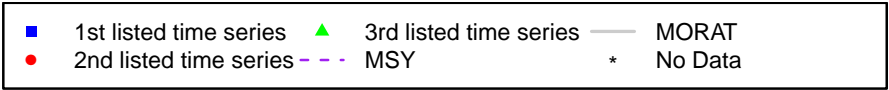
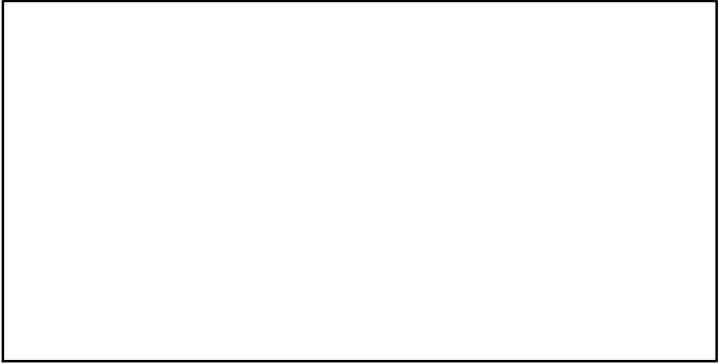
CPUE*



EFFORT*



CdivMSY*



Anchovy Aegean Sea [ANCHMEDGSA22]

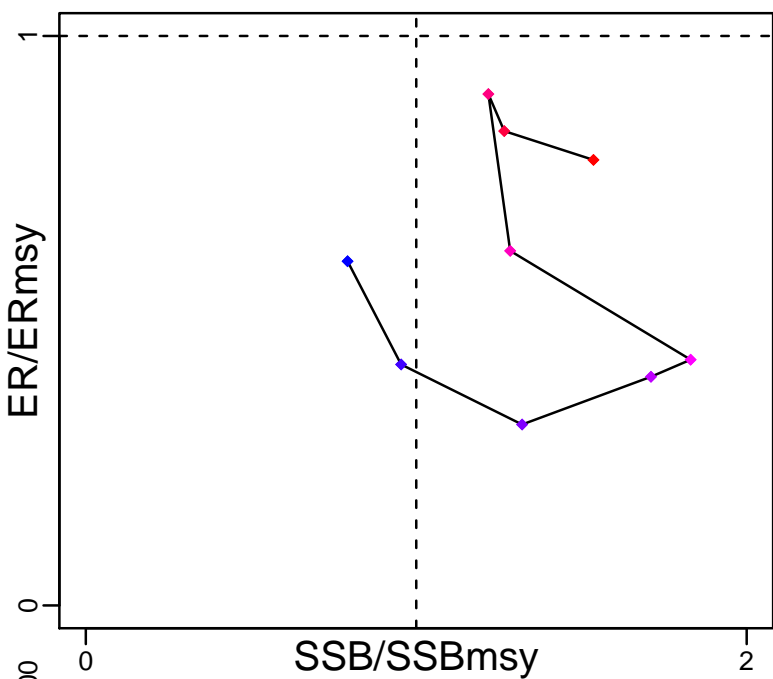
| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA22-2000-2008-OSIO |
| Area | Aegean Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2008 | 16,663 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2008 | 0.803 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2008 | 20,384 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

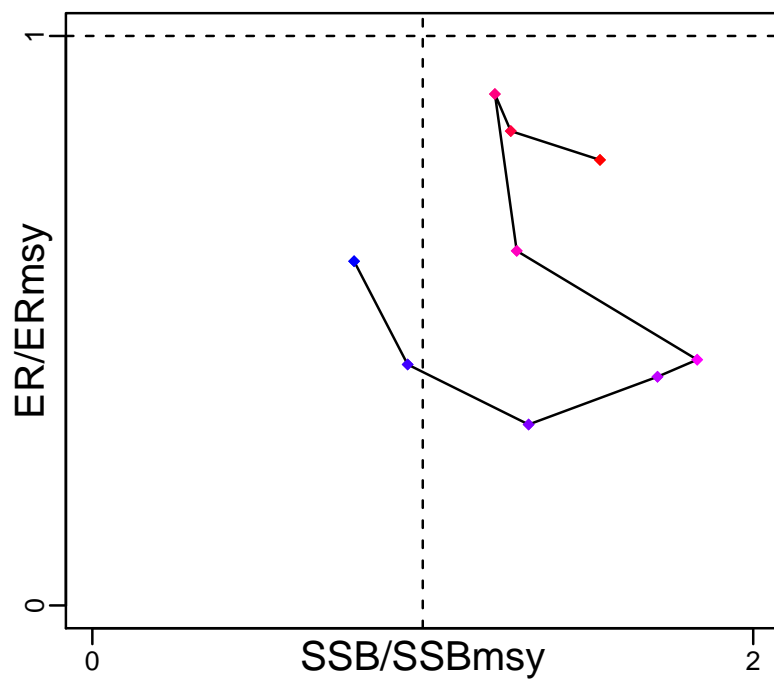
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2008 | 25,600 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2008 | 3.84×10^{10} | - | - |
| F | F-1/yr | 2008 | 0.576 | - | - |
| ER | ER-calc-ratio | 2008 | 0.628 | - | - |
| TC | TC-MT | 2008 | 24,500 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2008 | 1.536 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2008 | 0.782 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Anchovy Aegean Sea [ANCHMEDGSA22]

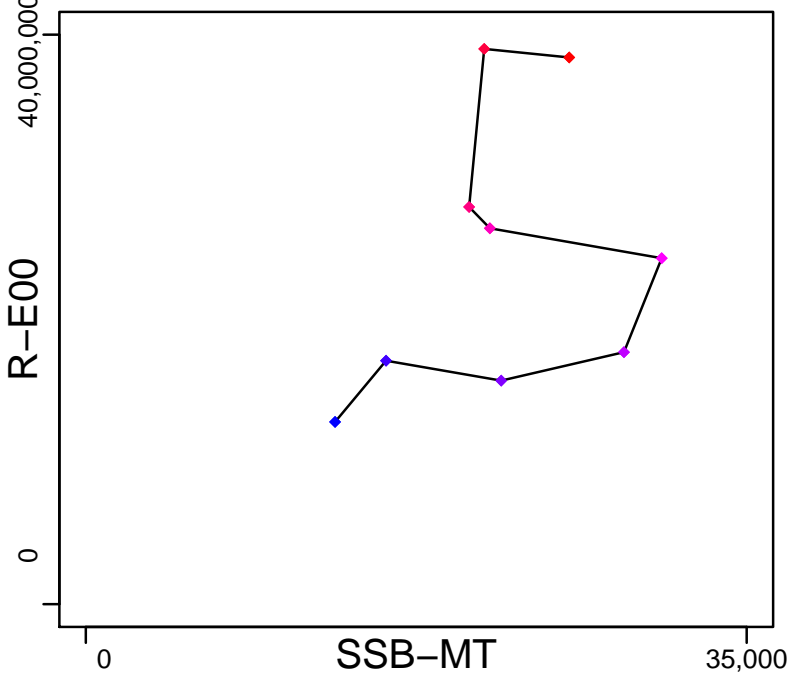
Kobe MSYpref (2000–2008–OSIO)



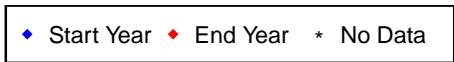
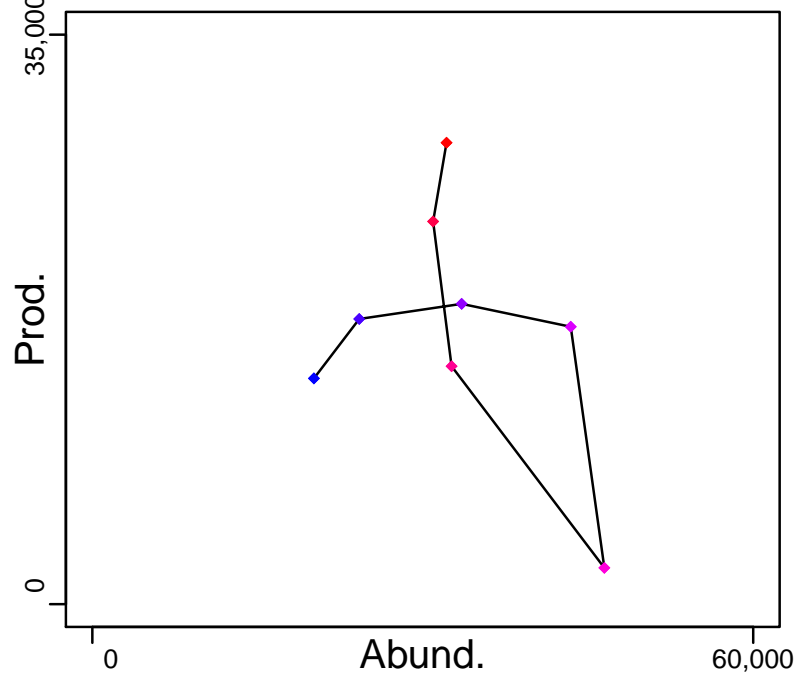
Kobe MGTpref (2000–2008–OSIO)



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)

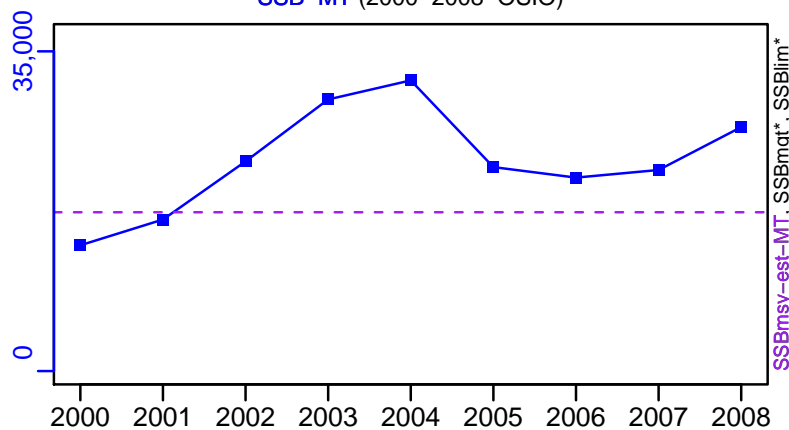


Anchovy Aegean Sea [ANCHMEDGSA22]

TB*



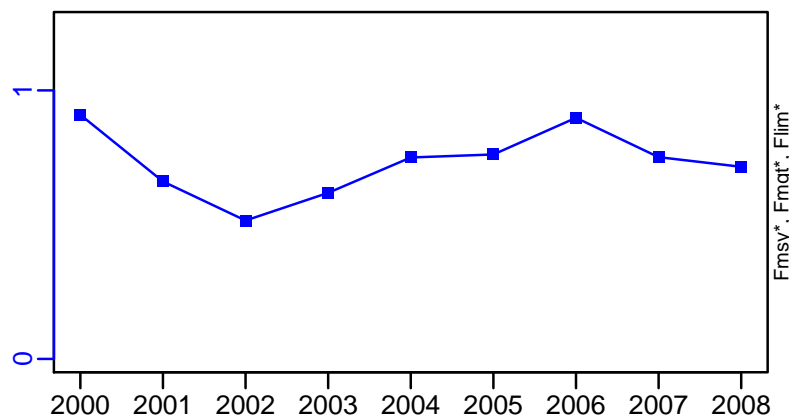
SSB-MT (2000–2008–OSIO)



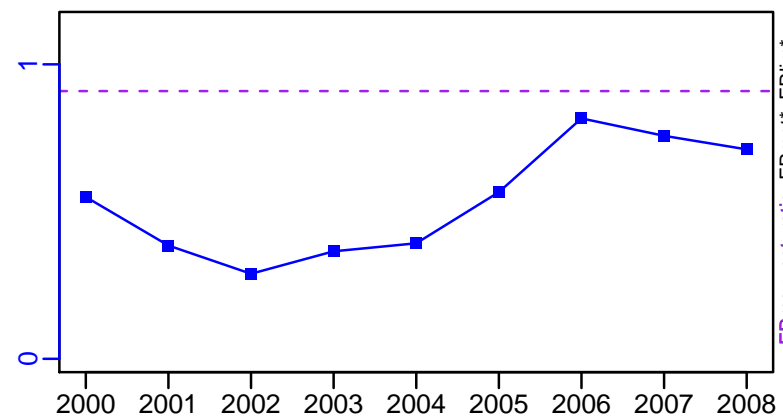
TN *



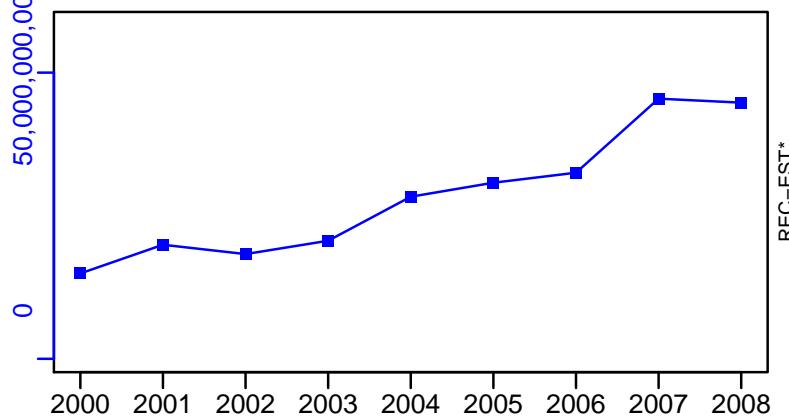
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

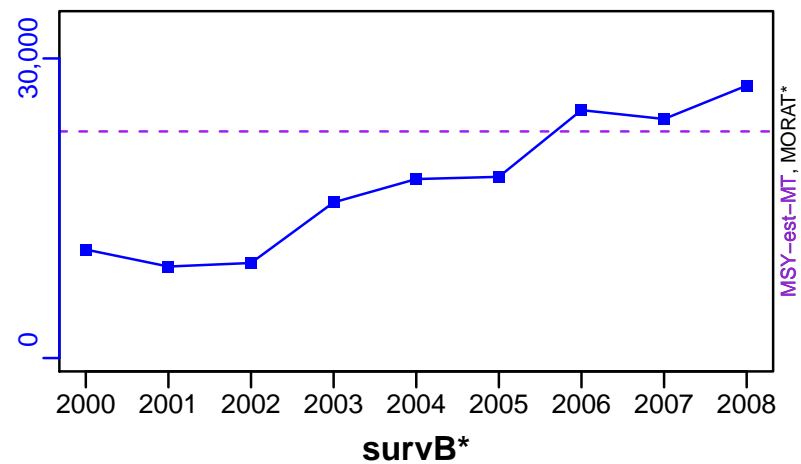


R-E00 (2000–2008–OSIO)



Anchovy Aegean Sea [ANCHMEDGSA22]

TC-MT, TL*, RecC* (2000–2008–OSIO)



TAC*, Cpair*, Cadv*



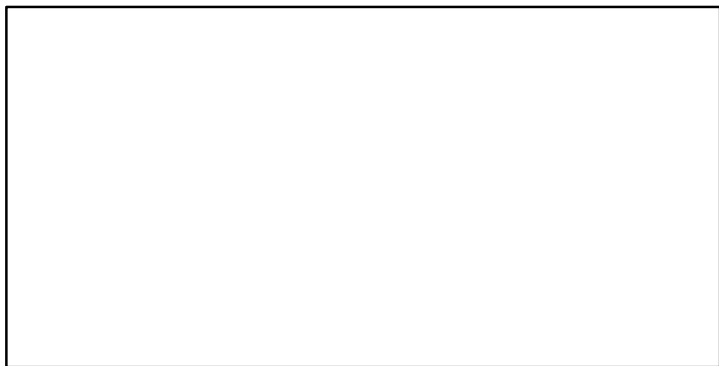
survB*



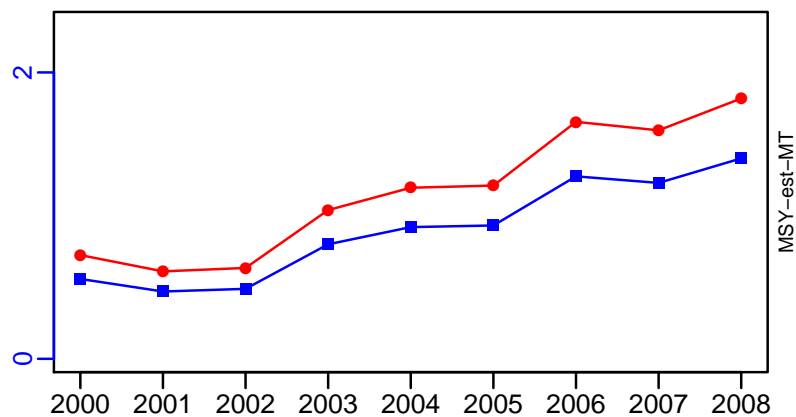
CPUE*



EFFORT*



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



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

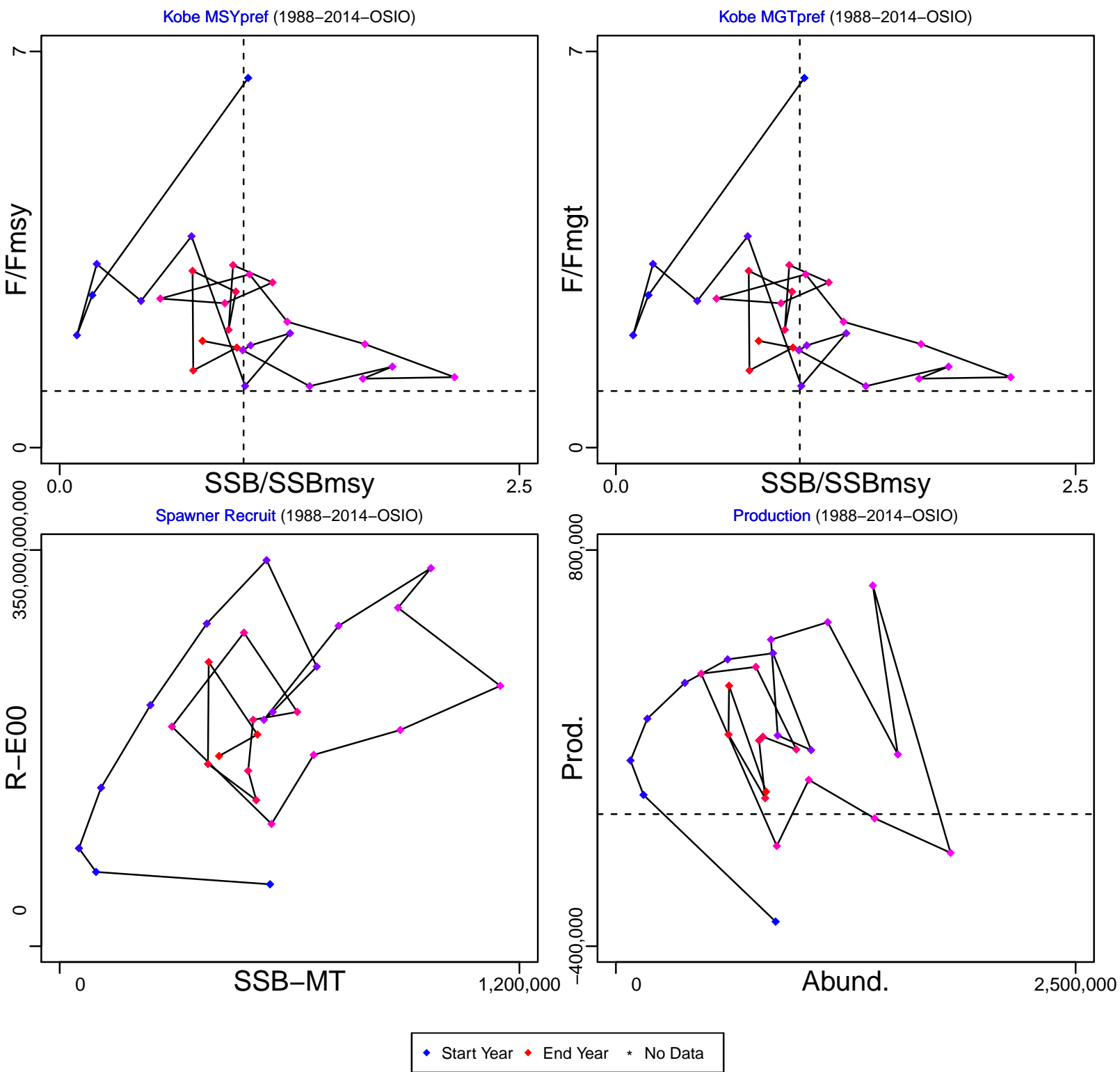
Anchovy Black Sea [ANCHMEDGSA29]

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

| Reference Points | | | |
|------------------|-----------------|-----------|---------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 535,627 |
| Fmsy | Fmsy-1/yr | 2014 | 0.49 |
| ERmsy | ERmsy-est-ratio | 2014 | 0.328 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.49 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 278,391 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 416,000 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.68×10^{11} | - | - |
| F | F-1/yr | 2014 | 0.924 | - | - |
| ER | ER-calc-ratio | 2014 | 0.239 | - | - |
| TC | TC-MT | 2014 | 157,000 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.777 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 1.886 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.726 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.886 | | |
| ER/ERmgt | - | - | - | | |

Anchovy Black Sea [ANCHMEDGSA29]

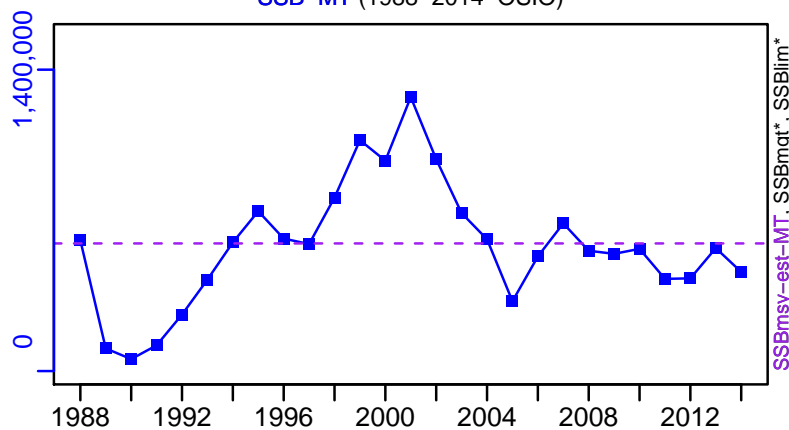


Anchovy Black Sea [ANCHMEDGSA29]

TB*



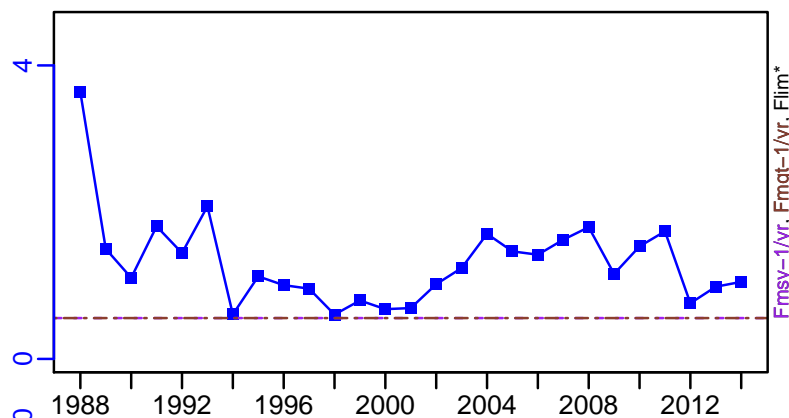
SSB-MT (1988–2014–OSIO)



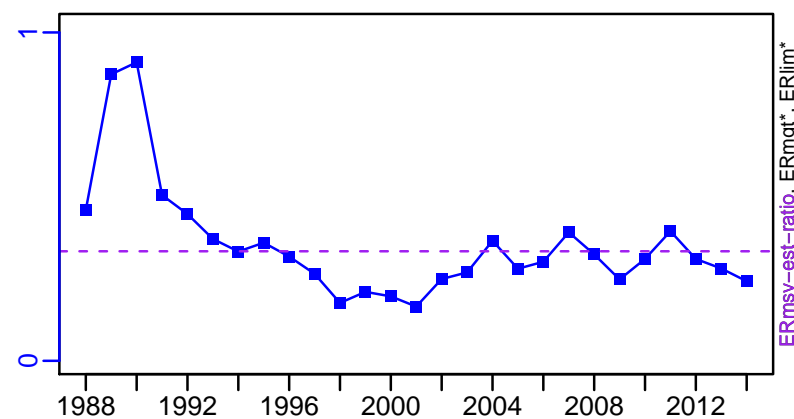
TN *



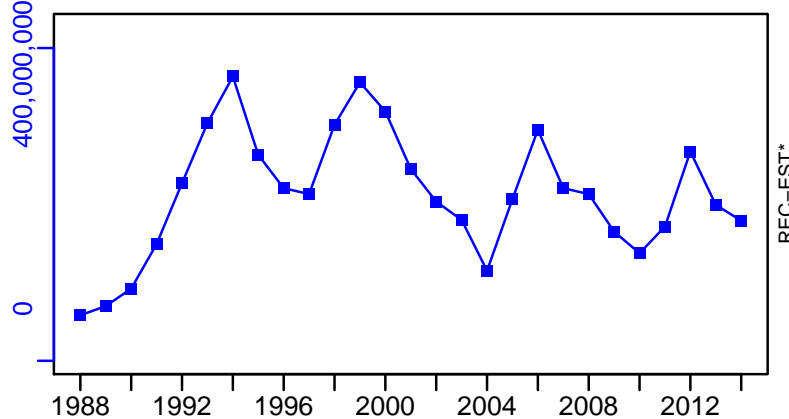
F-1/yr (1988–2014–OSIO)



ER-calc-ratio (1988–2014–OSIO)

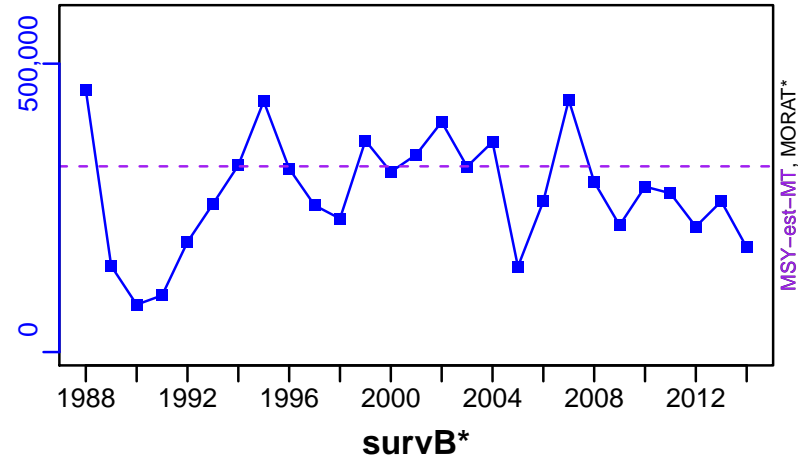


R-E00 (1988–2014–OSIO)



Anchovy Black Sea [ANCHMEDGSA29]

TC-MT, TL*, RecC* (1988–2014–OSIO)



TAC*, Cpair*, Cadv*



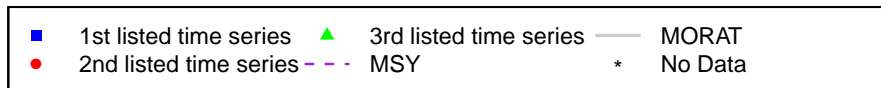
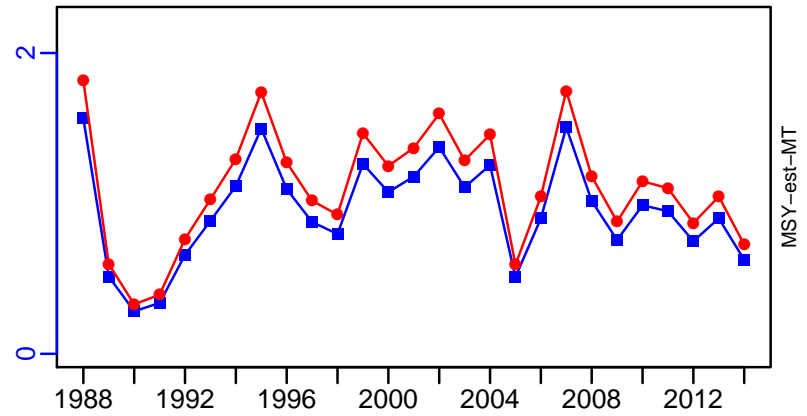
CPUE*



EFFORT*



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



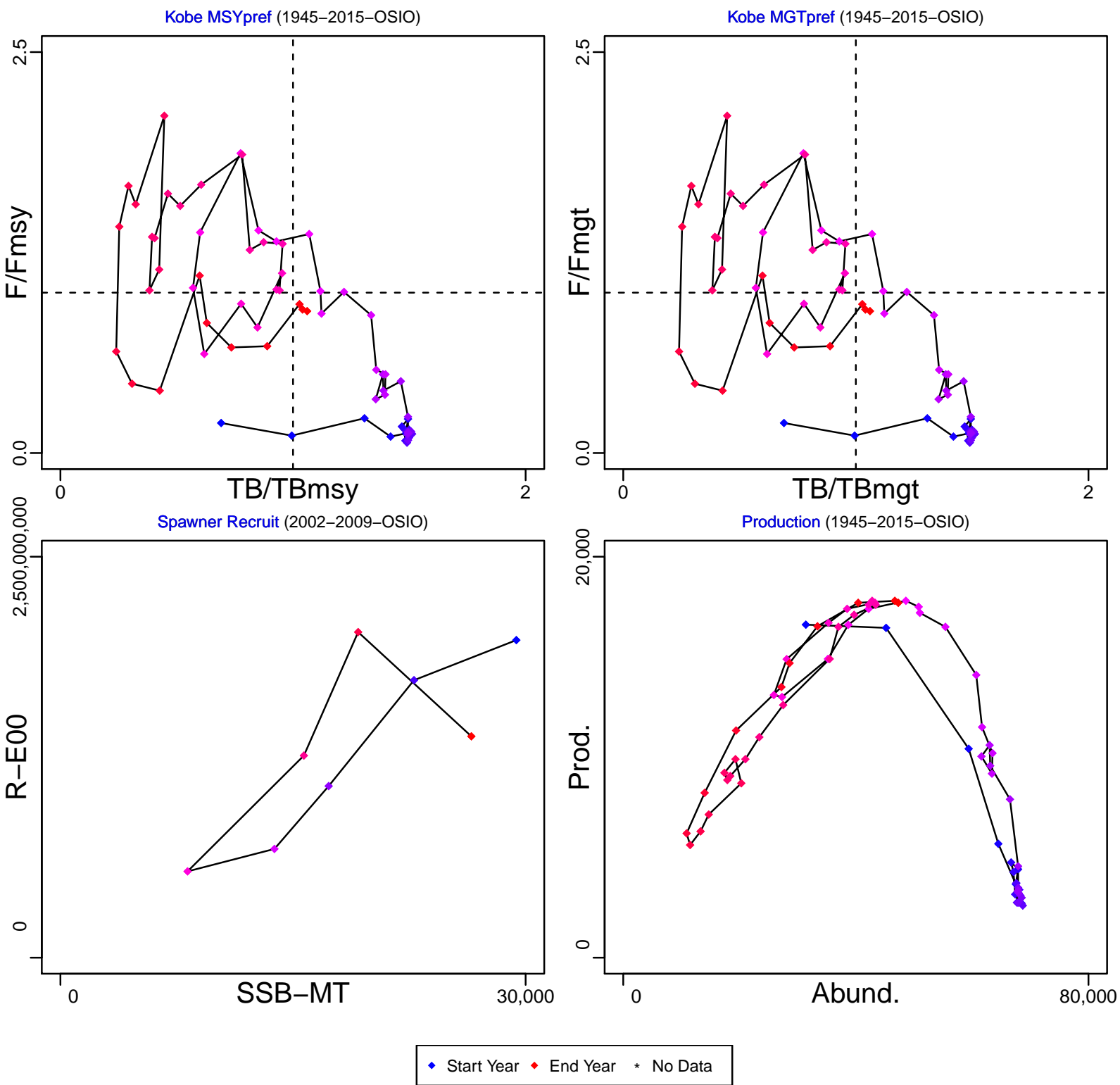
Anchovy Northern Spain [ANCHMEDGSA6]

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

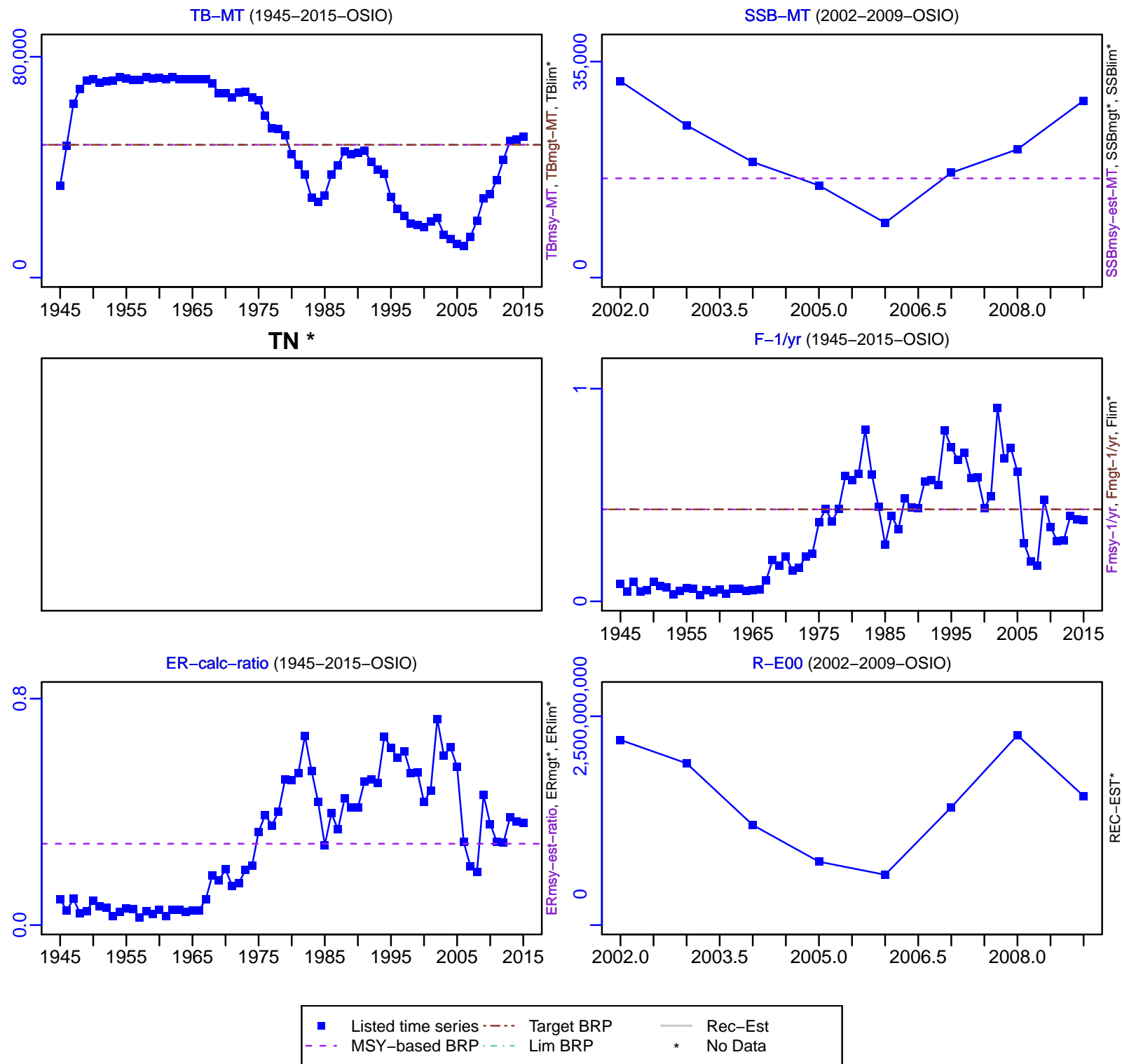
| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-MT | 2015 | 45,440 |
| SSBmsy | SSBmsy-est-MT | 2009 | 14,860 |
| Fmsy | Fmsy-1/yr | 2015 | 0.393 |
| ERmsy | ERmsy-est-ratio | 2015 | 0.278 |
| TBmgt | TBmgt-MT | 2015 | 45,440 |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.393 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2015 | 12,650 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 48,200 | - | - |
| SSB | SSB-MT | 2009 | 26,500 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2009 | 1.38×10^9 | - | - |
| F | F-1/yr | 2015 | 0.348 | - | - |
| ER | ER-calc-ratio | 2015 | 0.351 | - | - |
| TC | TC-MT | 2009 | 9810 | | |
| TL | TL-MT | 2015 | 16,900 | | |
| TB/TBmsy | TB-MT/TBmsy-MT | 2015 | 1.061 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2009 | 1.783 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 0.885 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2015 | 1.259 | | |
| TB/TBmgt | TB-MT/TBmgt-MT | 2015 | 1.061 | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 0.885 | | |
| ER/ERmgt | - | - | - | | |

Anchovy Northern Spain [ANCHMEDGSA6]

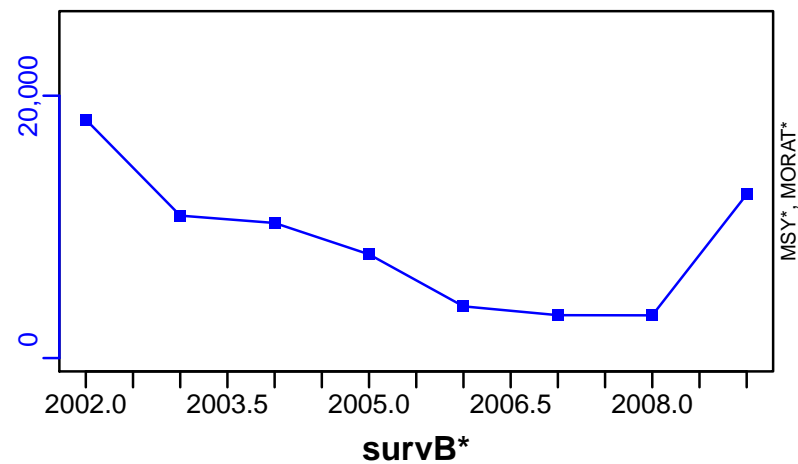


Anchovy Northern Spain [ANCHMEDGSA6]



Anchovy Northern Spain [ANCHMEDGSA6]

TC-MT, TL*, RecC* (2002–2009–OSIO)



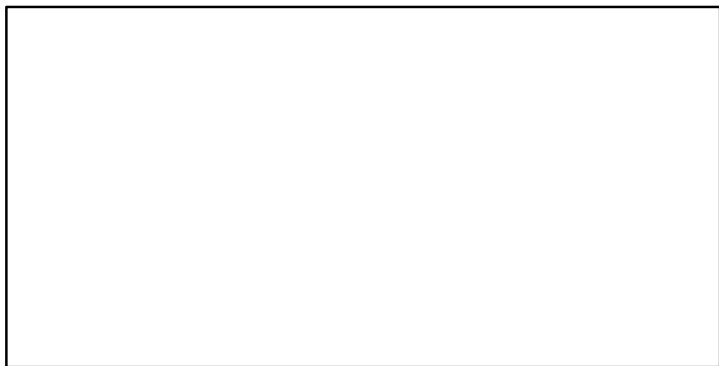
TAC*, Cpair*, Cadv*



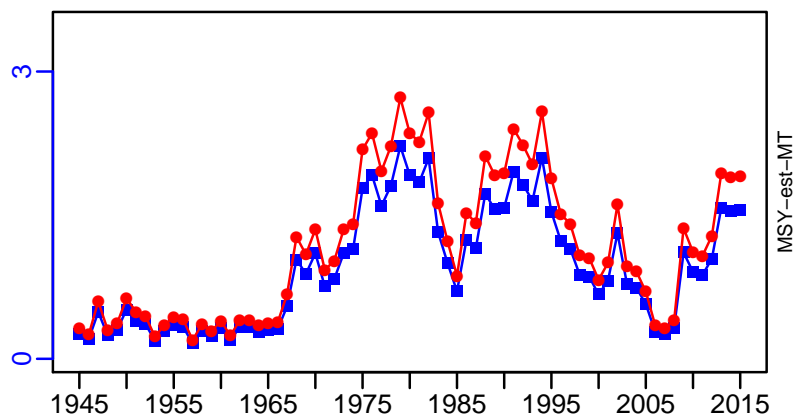
CPUE*



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]

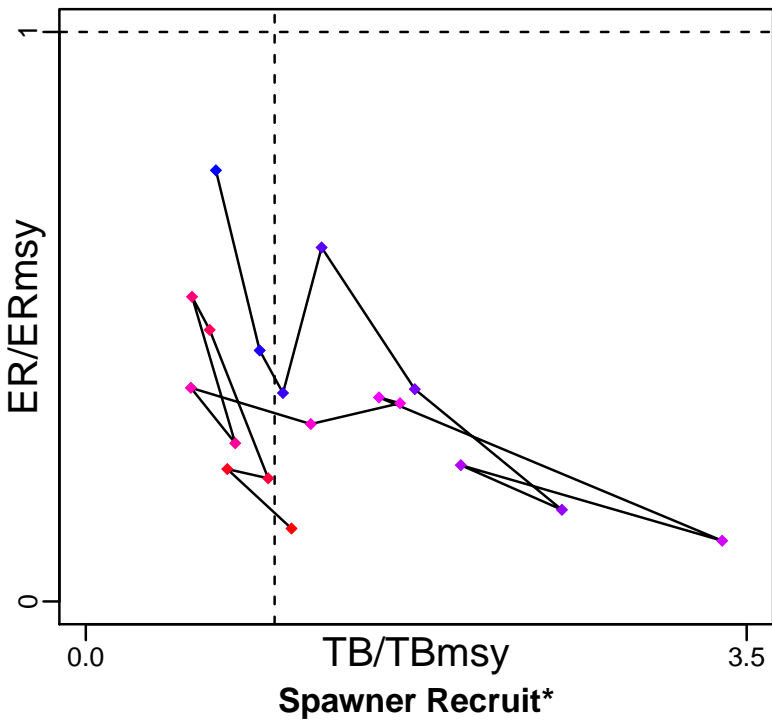
| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | IFREMER-ANCHMEDGSA7-1993-2012-BANOBI |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | French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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2012 | 33,232 |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.382 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 12,690 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

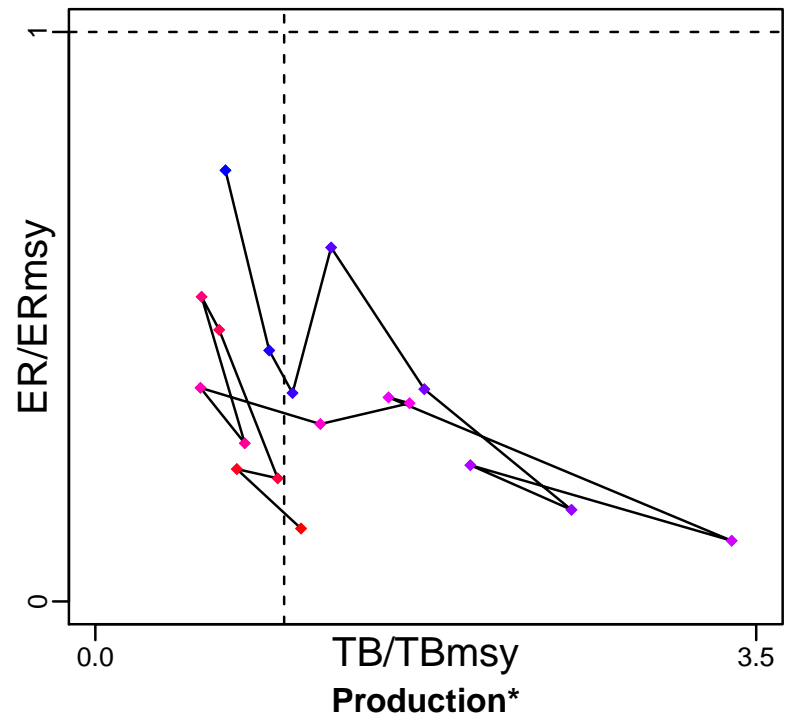
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 32,800 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | ER-calc-ratio | 2012 | 0.049 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2012 | 1770 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2012 | 0.987 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 0.128 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Anchovy Gulf of Lions [ANCHMEDGSA7]

Kobe MSYpref (1993–2012–BANOB1)



Kobe MGTpref (1993–2012–BANOB1)

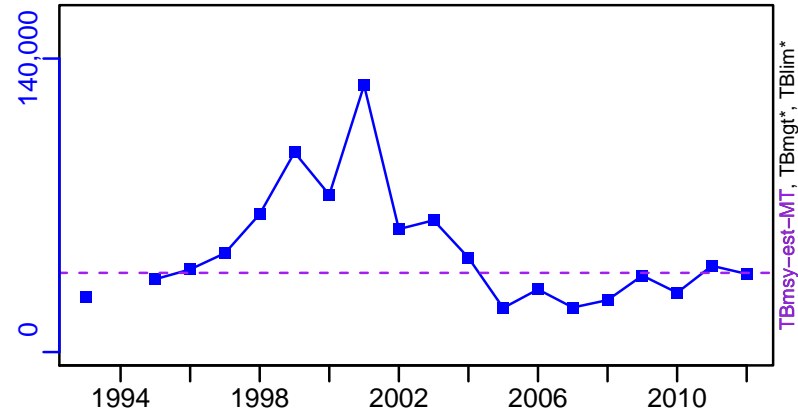


◆ Start Year ◆ End Year * No Data

Anchovy Gulf of Lions [ANCHMEDGSA7]

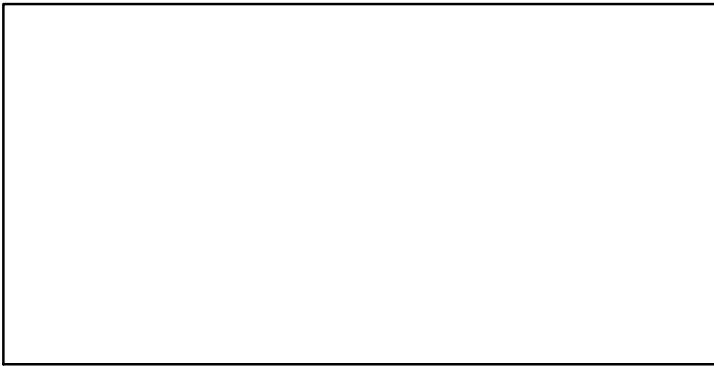
TB-MT (1993-2012-BANOBI)

SSB*



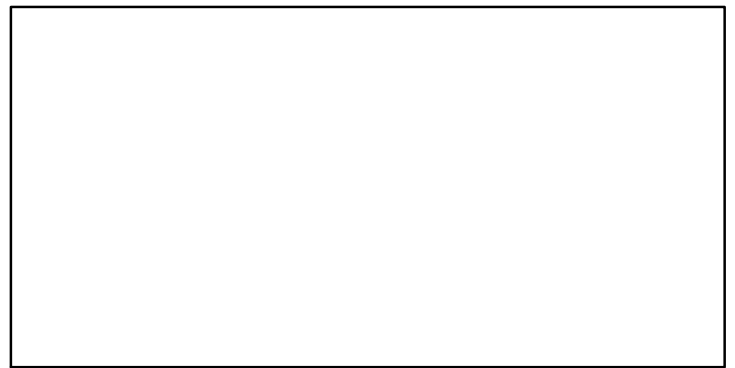
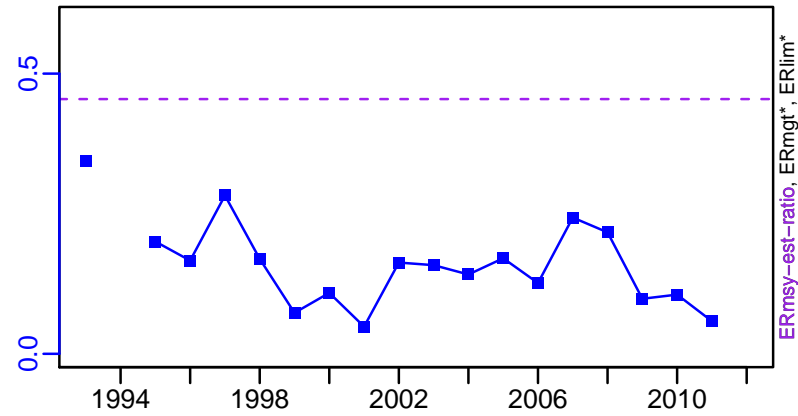
TN *

F*



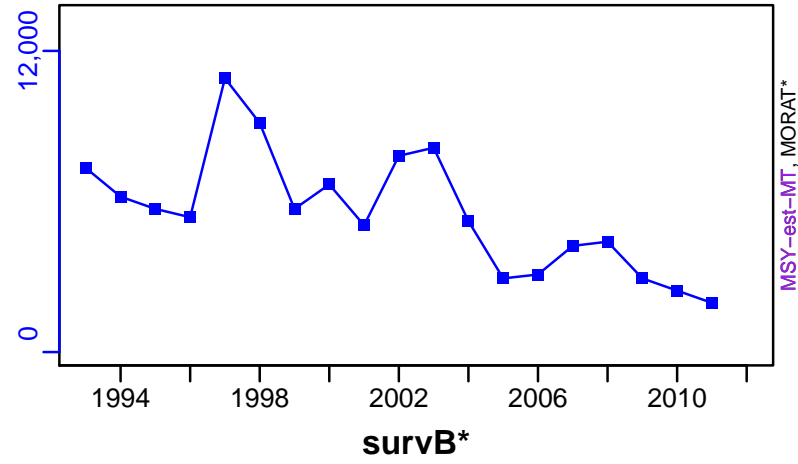
ER-calc-ratio (1993-2012-BANOBI)

Recruits*



Anchovy Gulf of Lions [ANCHMEDGSA7]

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



TAC*, Cpair*, Cadv*



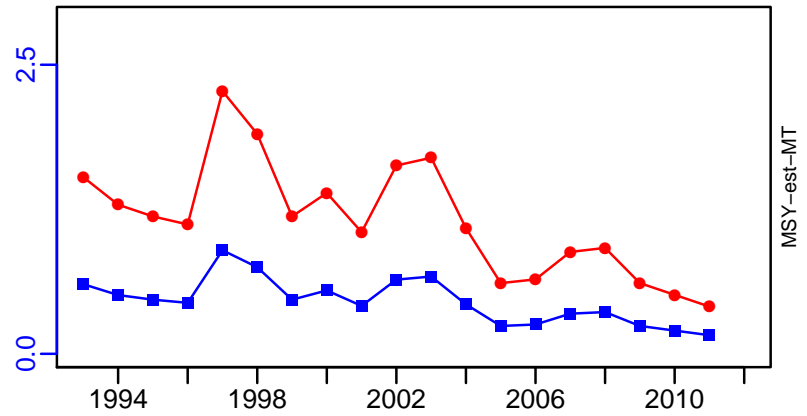
CPUE*



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]

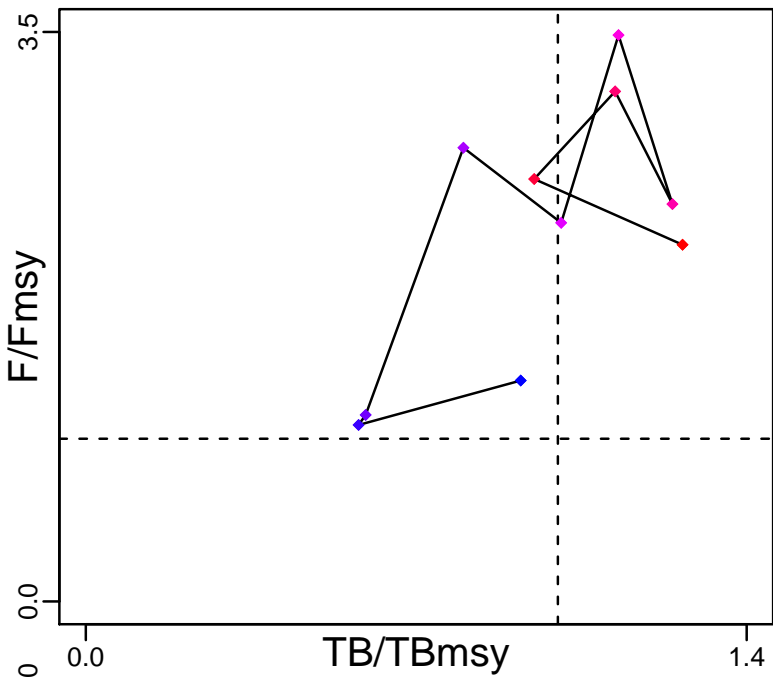
| Metadata | |
|-----------------------------|---|
| Scientific Name | Engraulis encrasicolus |
| Current Assess ID | STECF-ANCHMEDGSA9-2006-2015-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states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

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

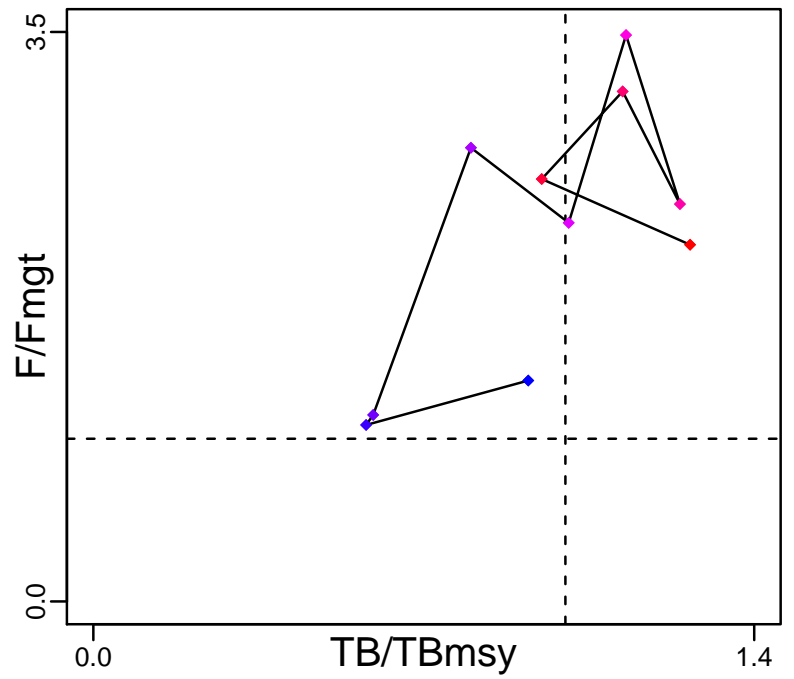
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 17,700 | - | - |
| SSB | SSB-MT | 2015 | 11,000 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015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

Anchovy Ligurian and North Tyrrhenian Sea [ANCHMEDGSA9]

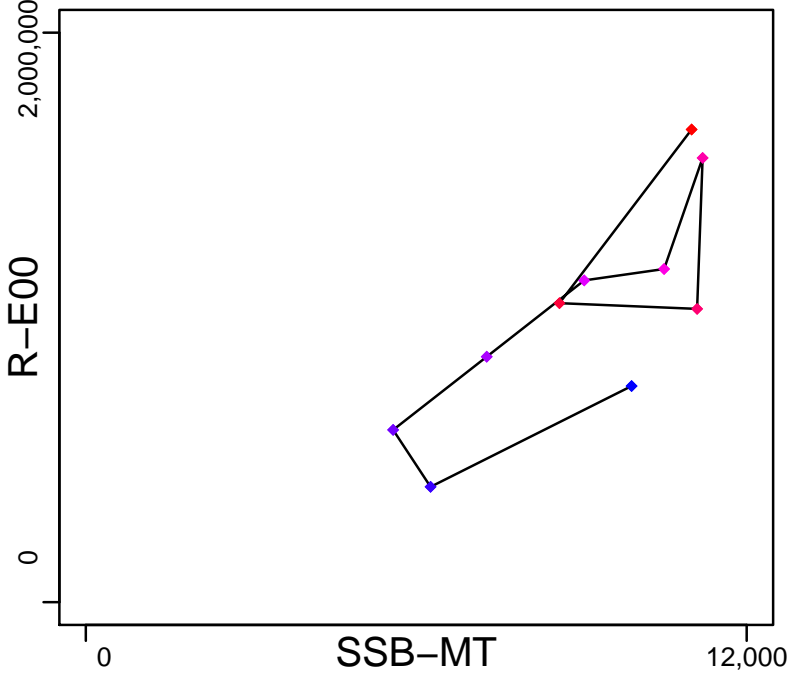
Kobe MSYpref (2006–2015–OSIO)



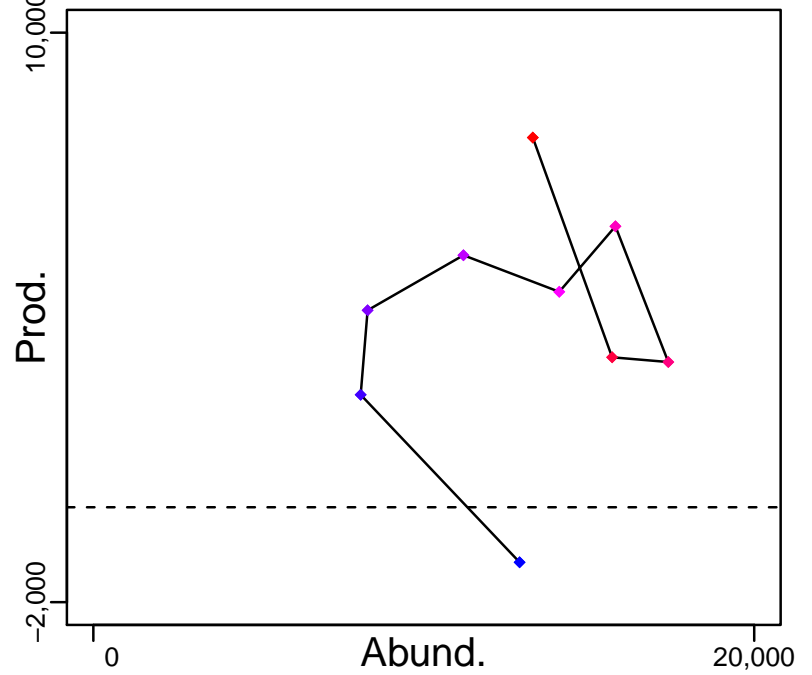
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)

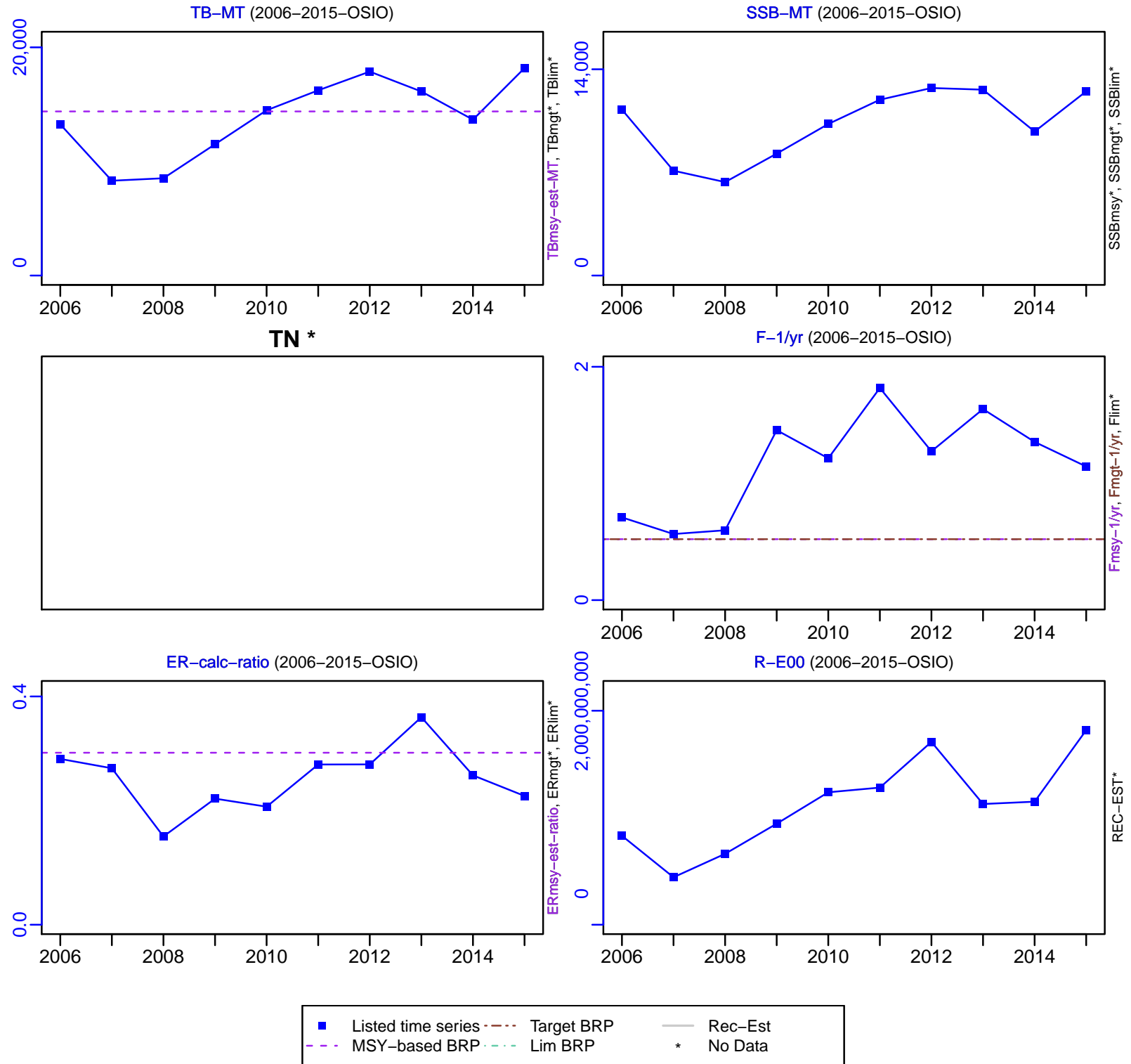


Production (2006–2015–OSIO)



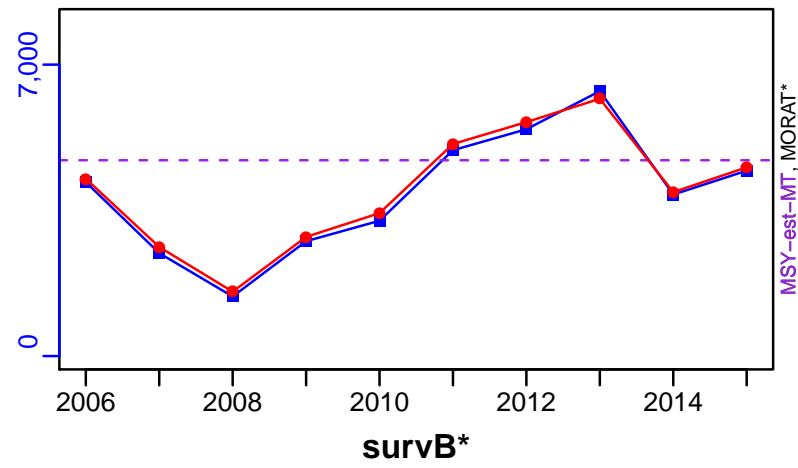
◆ Start Year ◆ End Year * No Data

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*



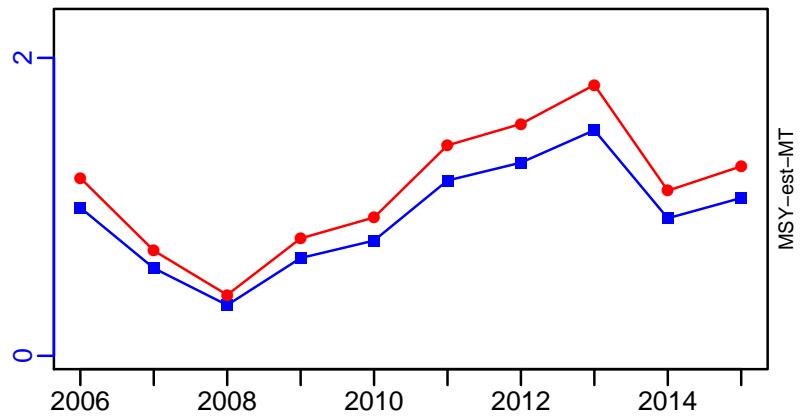
CPUE*



EFFORT*



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



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

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

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

| Reference Points | | | |
|------------------|----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-extr-1/yr | 2010 | 0.165 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.16 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2010 | 0.2 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 536 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 1,100,000 | - | - |
| F | F-1/yr | 2011 | 0.351 | - | - |
| ER | ER-calc-ratio | 2011 | 0.147 | - | - |
| TC | TC-MT | 2011 | 279 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | FdivFmsy-dimensionless | 2010 | 2.07 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 2.194 | | |
| ER/ERmgt | - | - | - | | |

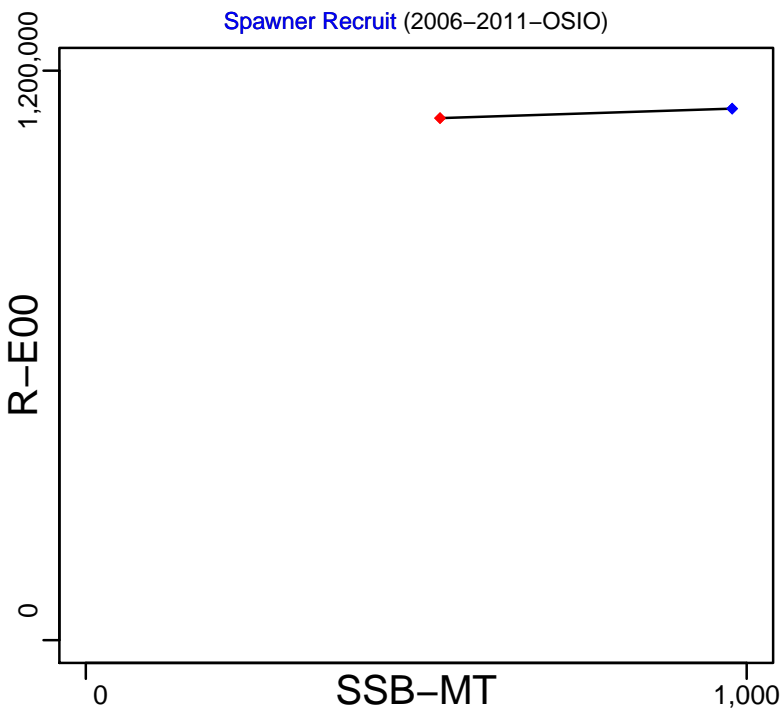
Kobe MSY*



Kobe MGT*



Spawner Recruit (2006-2011-OSIO)



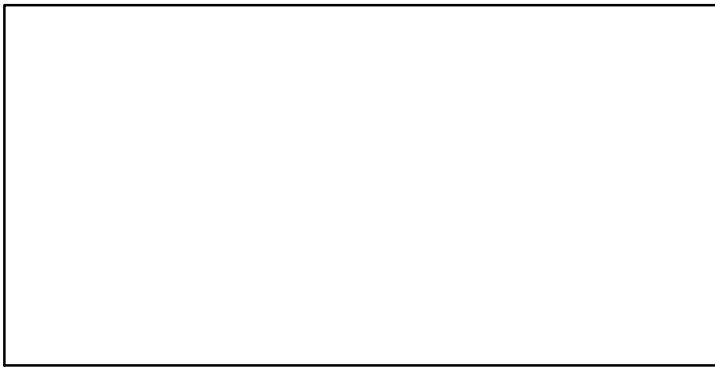
Production*



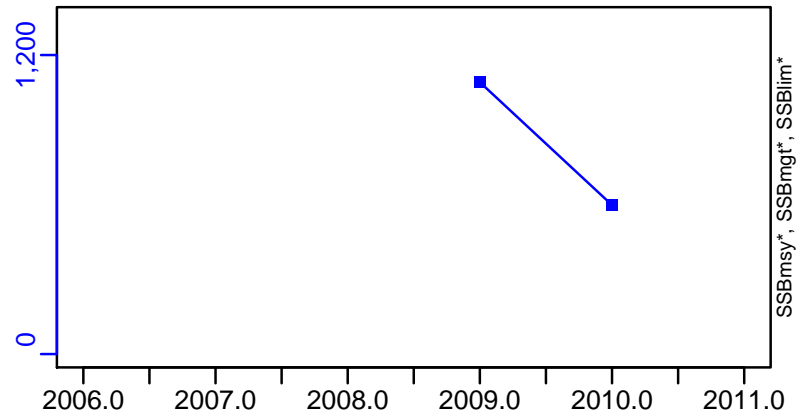
◆ Start Year ◆ End Year * No Data

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

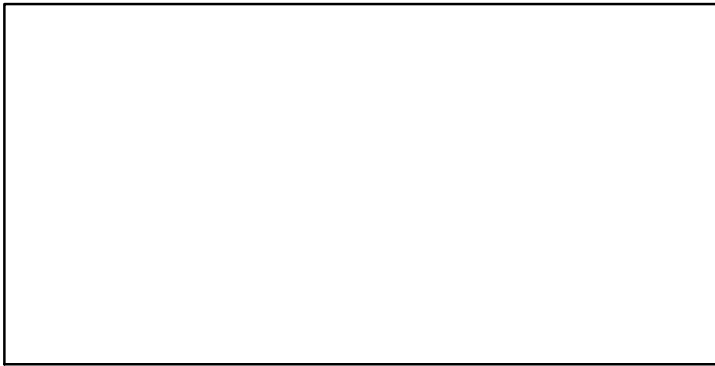
TB*



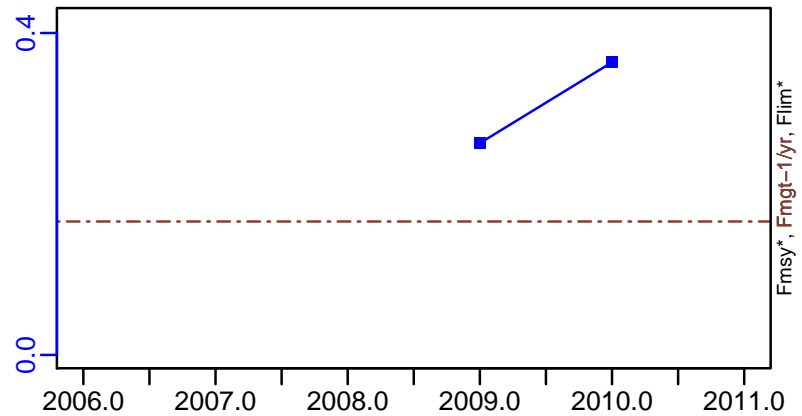
SSB-MT (2006-2011-OSIO)



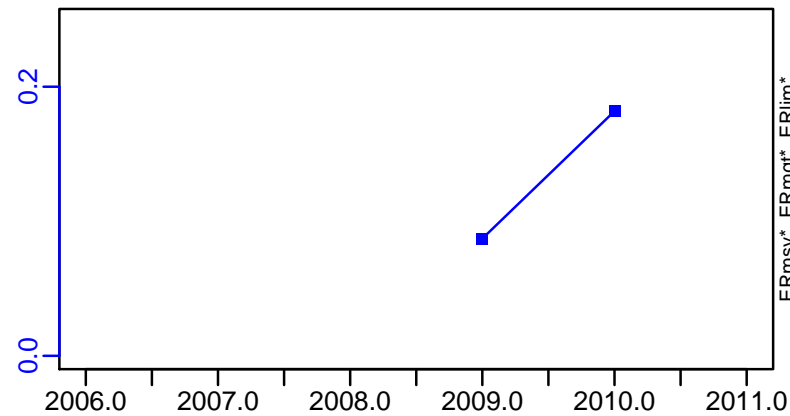
TN *



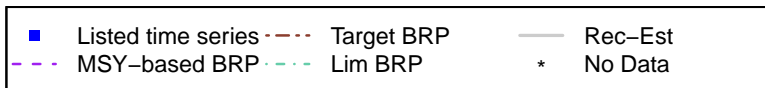
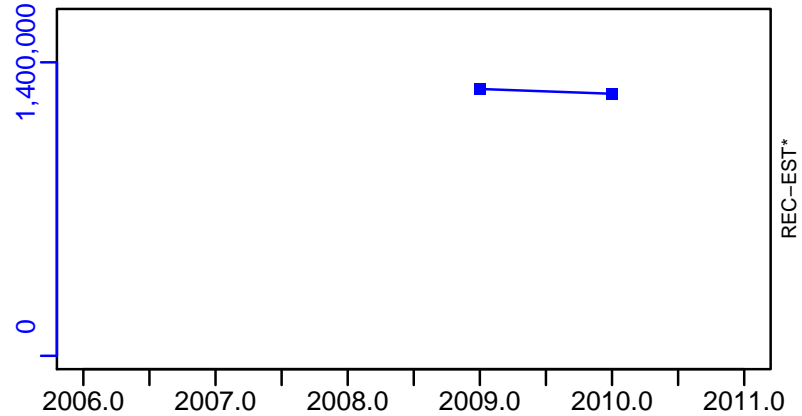
F-1/yr (2006-2011-OSIO)



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



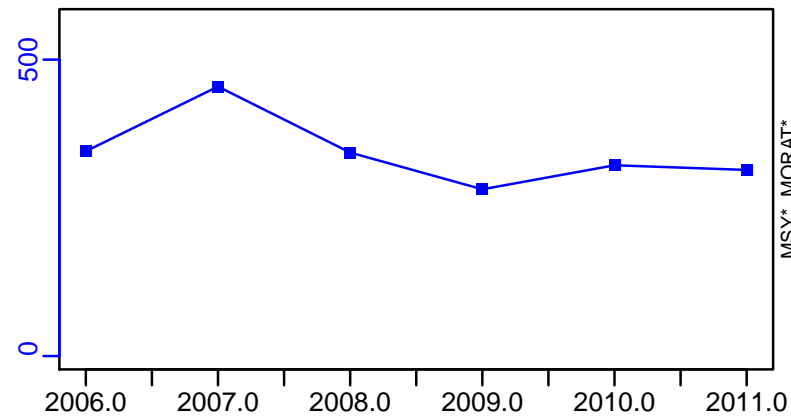
R-E00 (2006-2011-OSIO)



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

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

TAC*, Cpair*, Cadv*

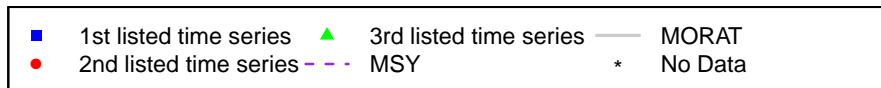


survB*

CPUE*

EFFORT*

CdivMSY*



Black bellied angler Balearic Island [ANGLMEDGSA5]

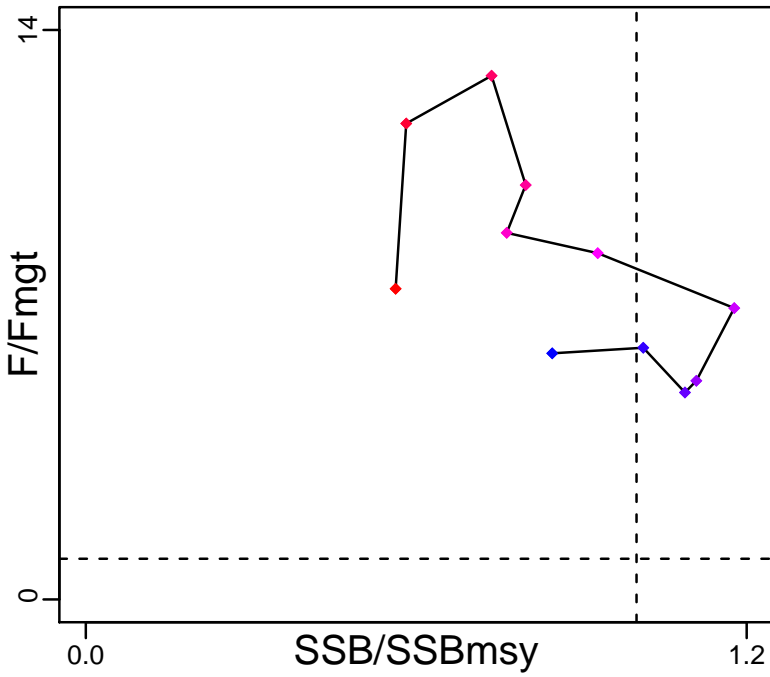
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lophius budegassa |
| Current Assess ID | STECF-ANGLMEDGSA5-2003-2013-OSIO |
| Area | Balearic Island |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 15 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.469 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.08 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 19 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

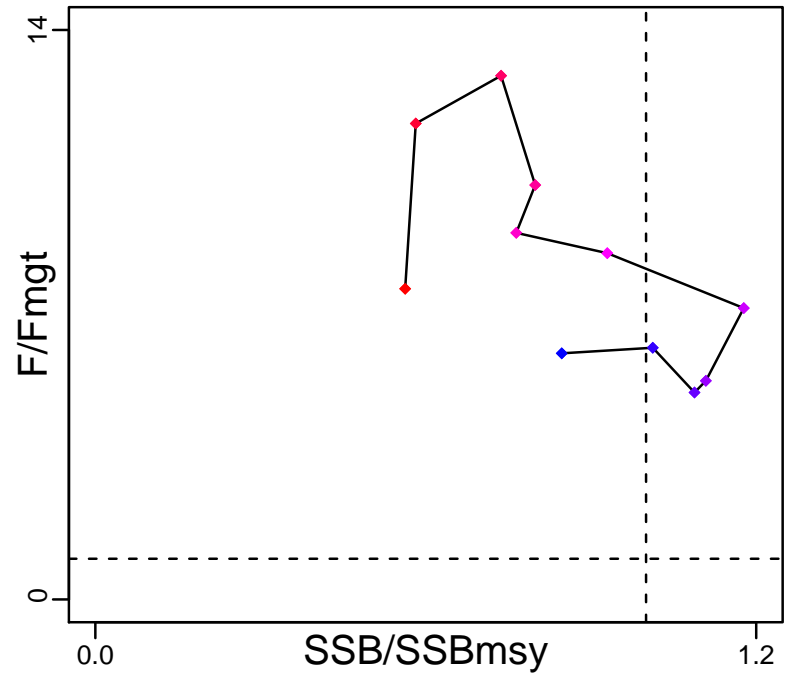
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 8 | - | 5+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 152,000 | - | - |
| F | F-1/yr | 2013 | 0.611 | - | - |
| ER | ER-calc-ratio | 2013 | 0.486 | - | - |
| TC | TC-MT | 2013 | 11 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 0.563 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 1.037 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 7.638 | | |
| ER/ERmgt | - | - | - | | |

Black bellied angler Balearic Island [ANGLMEDGSA5]

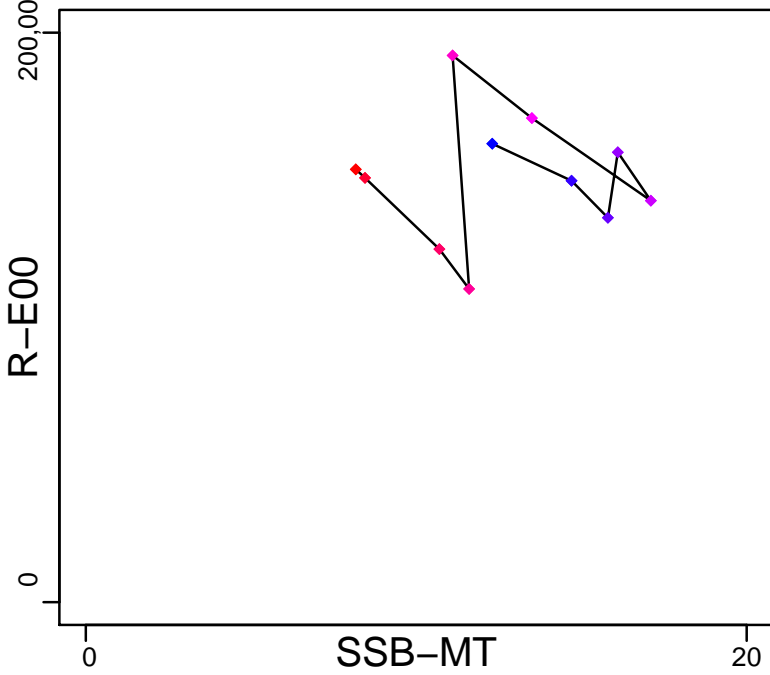
Kobe MSYpref (2003–2013–OSIO)



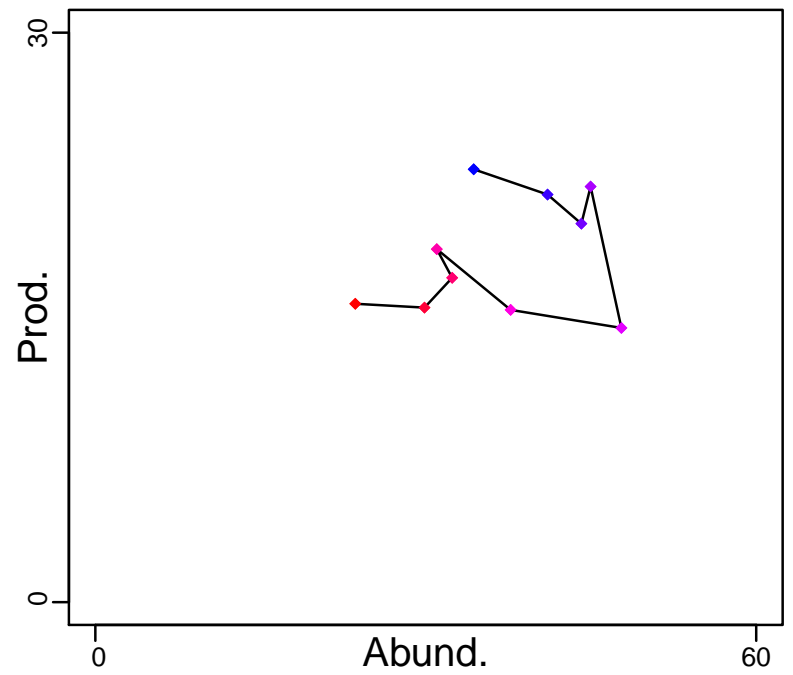
Kobe MGTpref (2003–2013–OSIO)



Spawner Recruit (2003–2013–OSIO)



Production (2003–2013–OSIO)



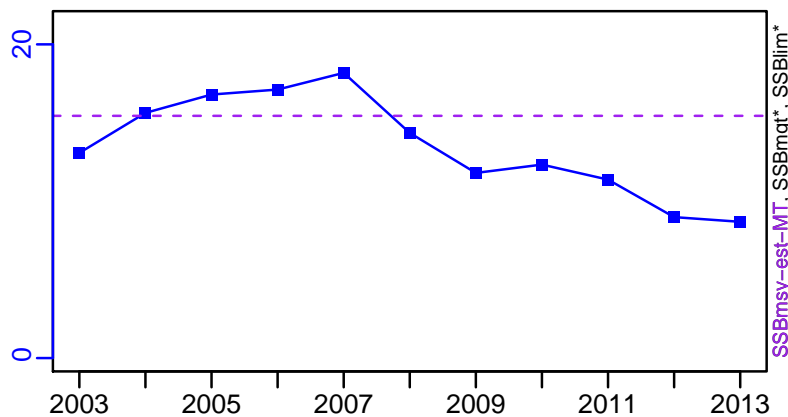
◆ Start Year ◆ End Year * No Data

Black bellied angler Balearic Island [ANGLMEDGSA5]

TB*



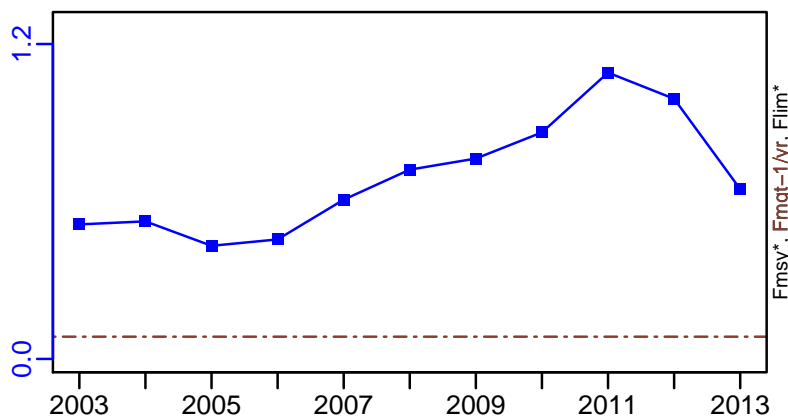
SSB-MT (2003–2013–OSIO)



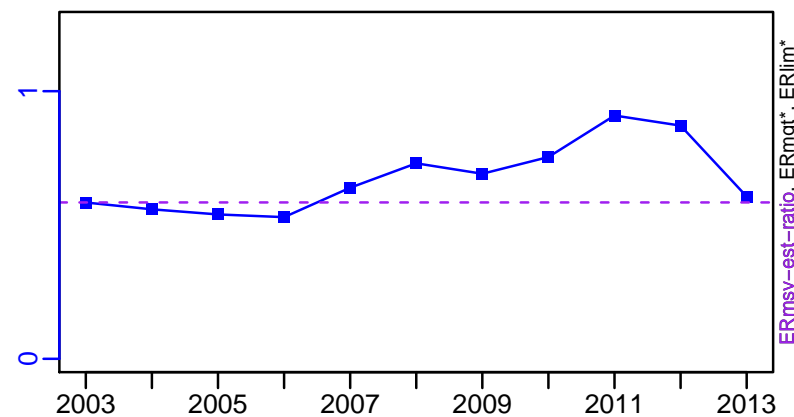
TN *



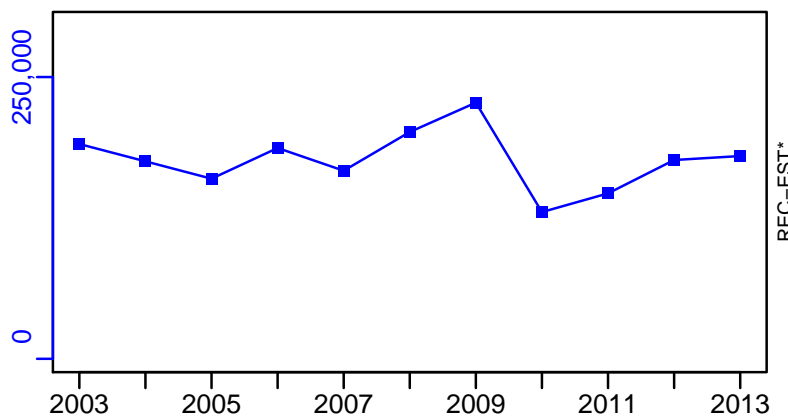
F-1/yr (2003–2013–OSIO)



ER-calc-ratio (2003–2013–OSIO)



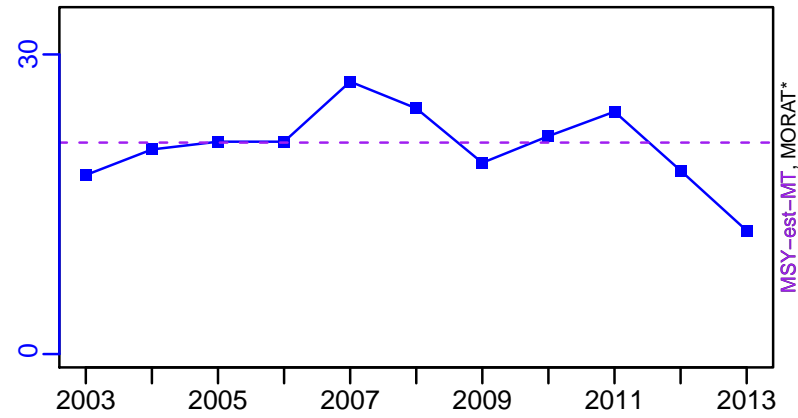
R-E00 (2003–2013–OSIO)



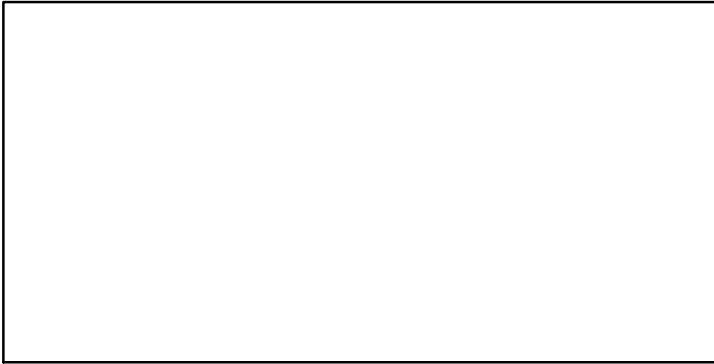
Black bellied angler Balearic Island [ANGLMEDGSA5]

TC-MT, TL*, RecC* (2003–2013–OSIO)

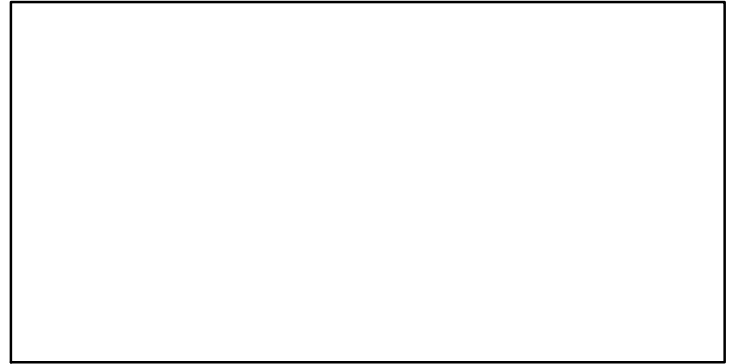
TAC*, Cpair*, Cadv*



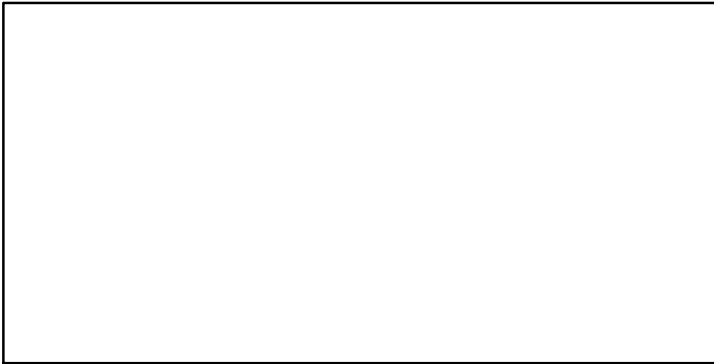
survB*



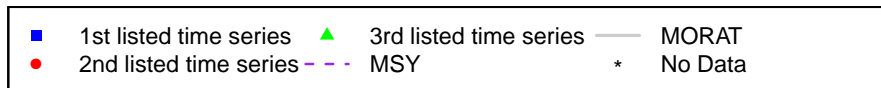
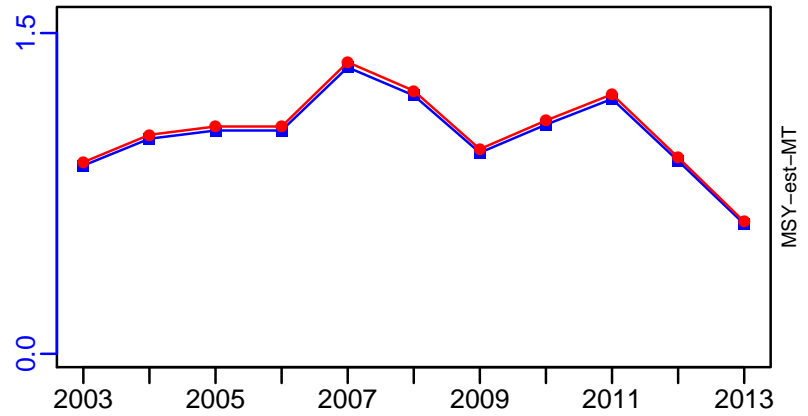
CPUE*



EFFORT*



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



Black bellied angler Northern Spain [ANGLMEDGSA6]

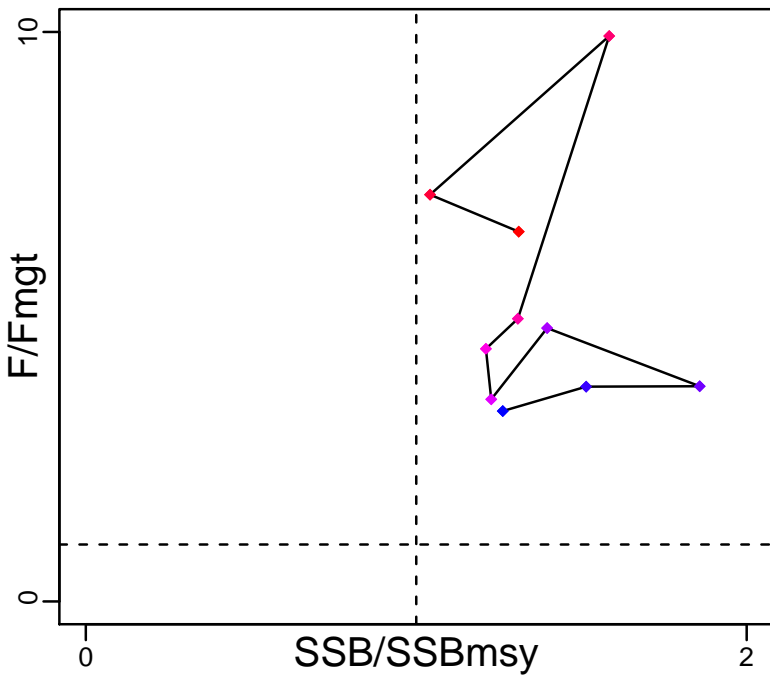
| Metadata | |
|-----------------------------|---|
| Scientific Name | Lophius budegassa |
| Current Assess ID | STECF-ANGLMEDGSA6-2004-2013-OSIO |
| Area | Northern Spain |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 372 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.794 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.14 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 853 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

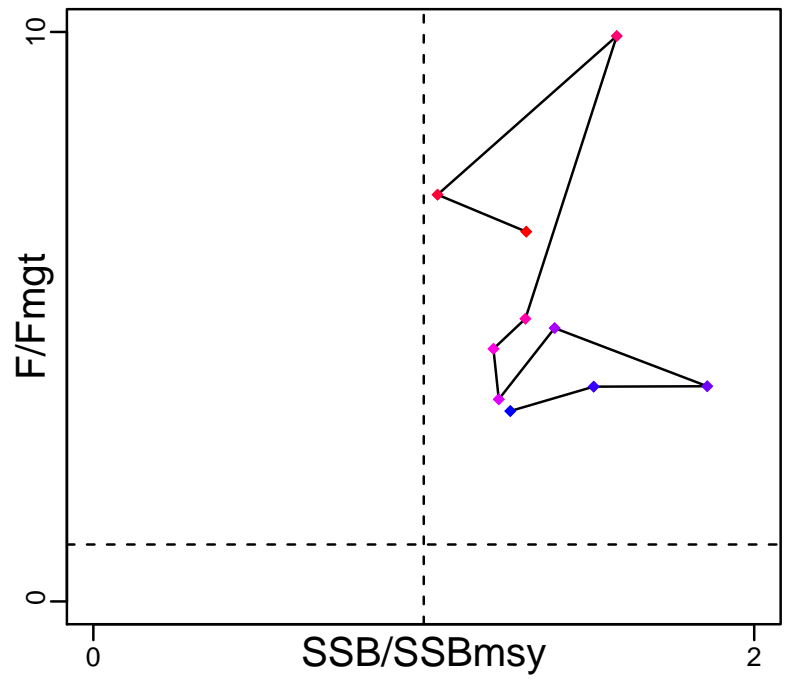
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 488 | - | 5+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 9,510,000 | - | - |
| F | F-1/yr | 2013 | 0.909 | - | - |
| ER | ER-calc-ratio | 2013 | 0.747 | - | - |
| TC | TC-MT | 2013 | 1050 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 1.31 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.94 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 6.493 | | |
| ER/ERmgt | - | - | - | | |

Black bellied angler Northern Spain [ANGLMEDGSA6]

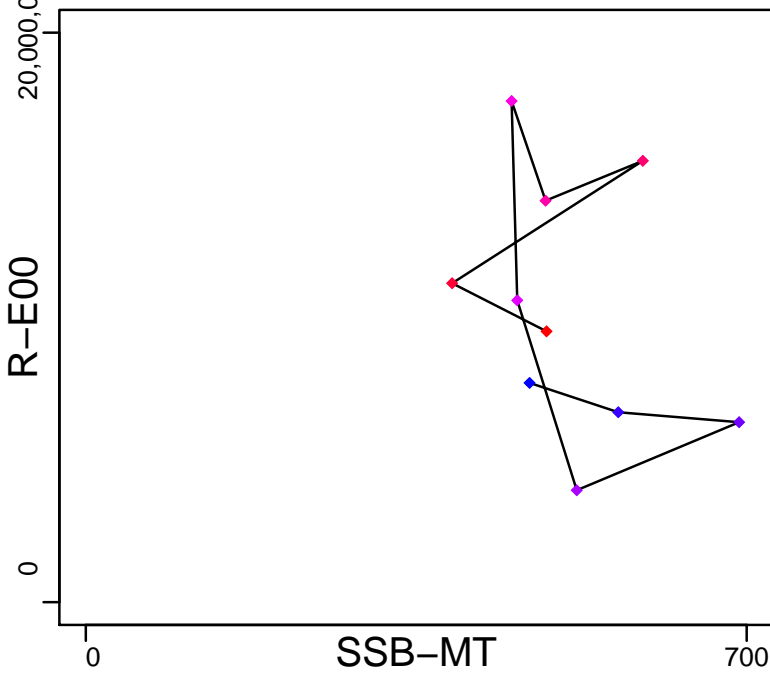
Kobe MSYpref (2004–2013–OSIO)



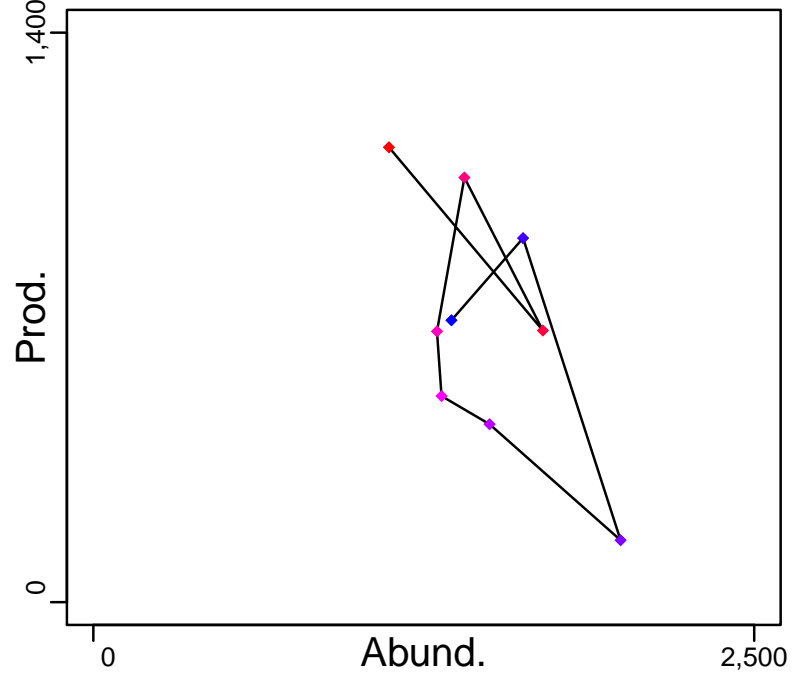
Kobe MGTpref (2004–2013–OSIO)



Spawner Recruit (2004–2013–OSIO)



Production (2004–2013–OSIO)



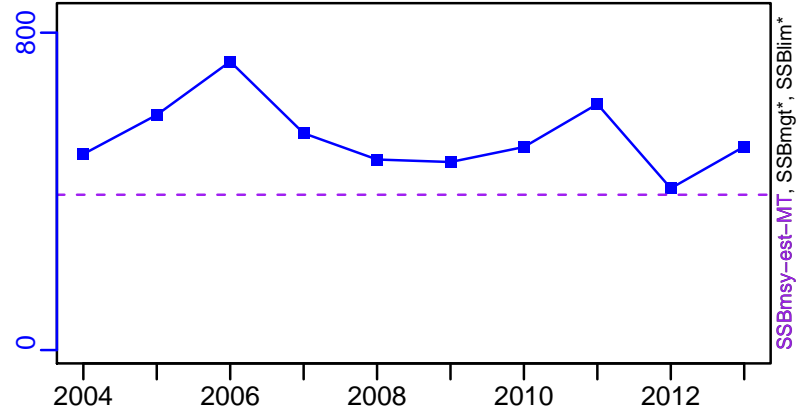
◆ Start Year ◆ End Year * No Data

Black bellied angler Northern Spain [ANGLMEDGSA6]

TB*



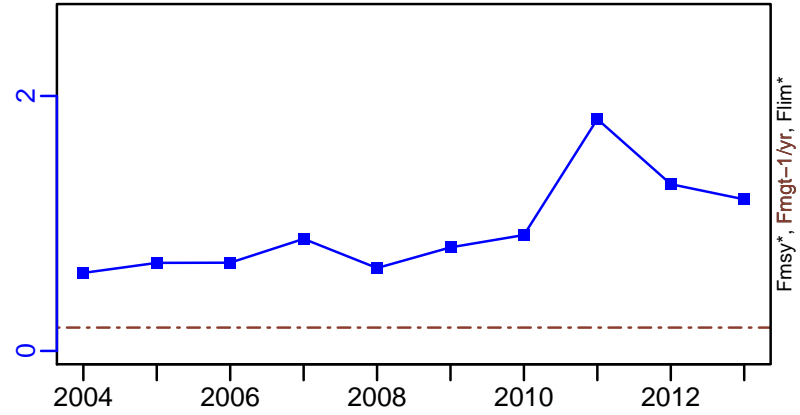
SSB-MT (2004–2013–OSIO)



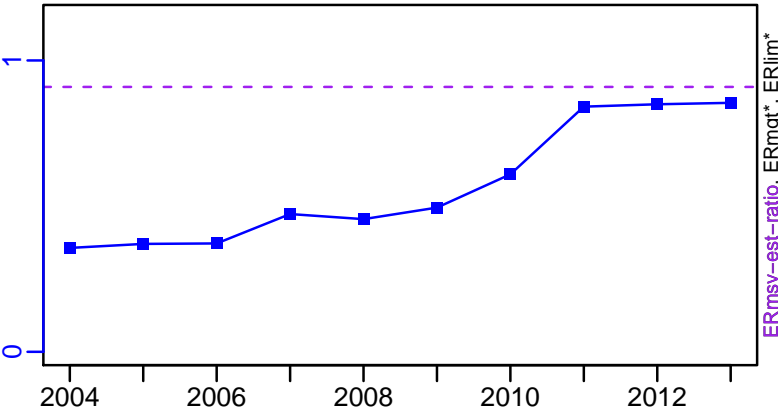
TN *



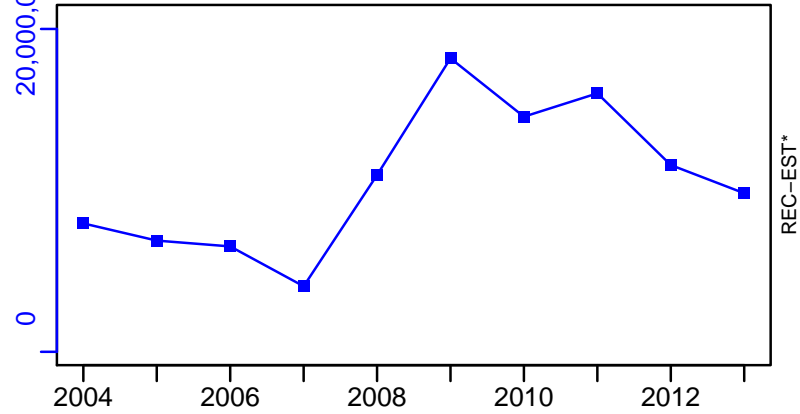
F-1/yr (2004–2013–OSIO)



ER-calc-ratio (2004–2013–OSIO)

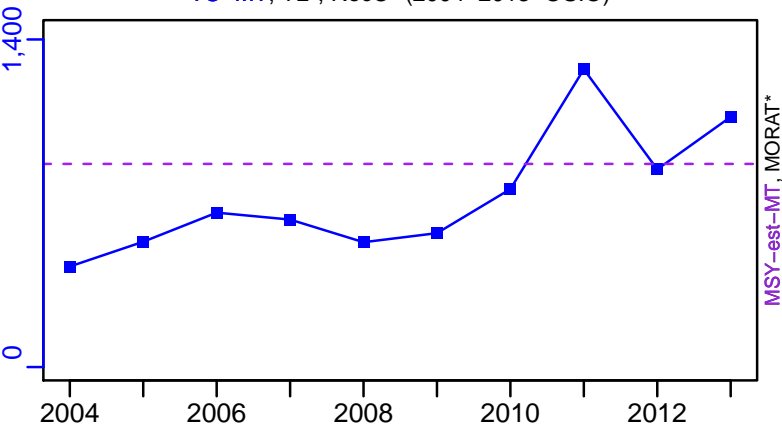


R-E00 (2004–2013–OSIO)



Black bellied angler Northern Spain [ANGLMEDGSA6]

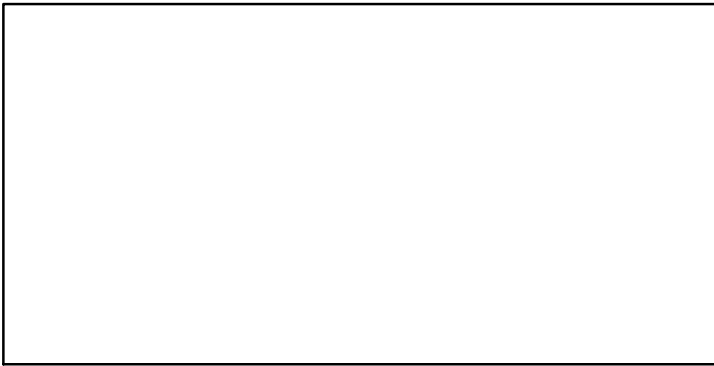
TC-MT, TL*, RecC* (2004-2013-OSIO)



TAC*, Cpair*, Cadv*



survB*



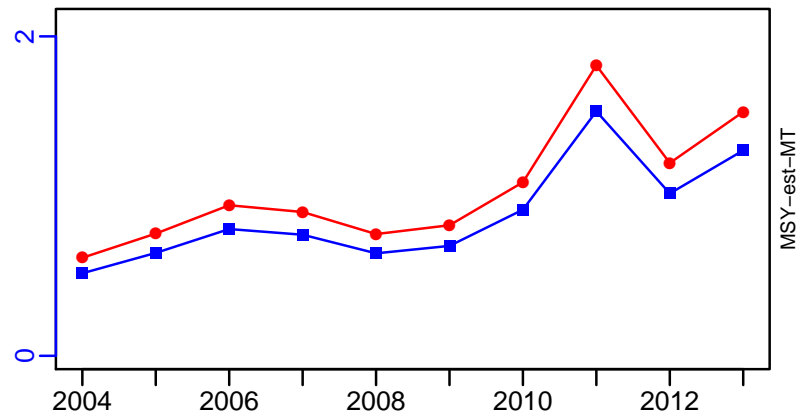
CPUE*



EFFORT*



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



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

Black bellied angler Gulf of Lions [ANGLMEDGSA7]

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

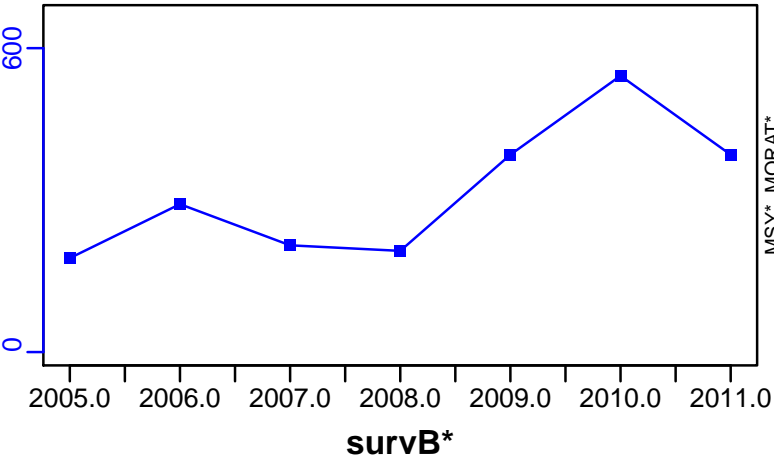


Recruits*



Black bellied angler Gulf of Lions [ANGLMEDGSA7]

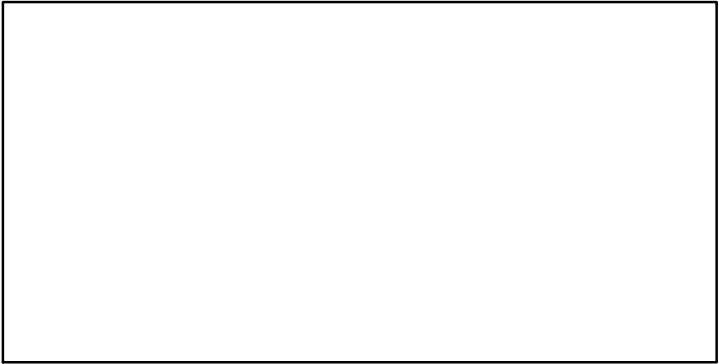
TC-MT, TL*, RecC* (2005-2011-OSIO)



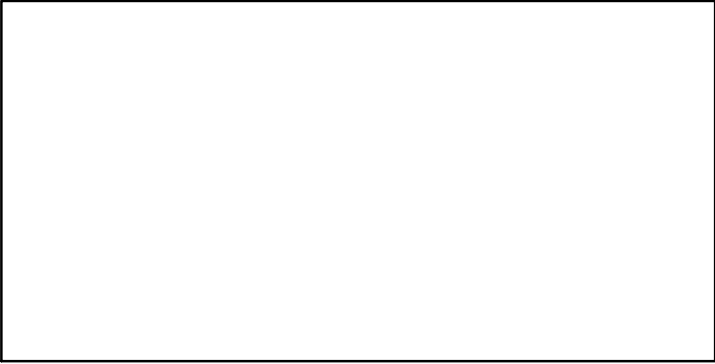
TAC*, Cpair*, Cadv*



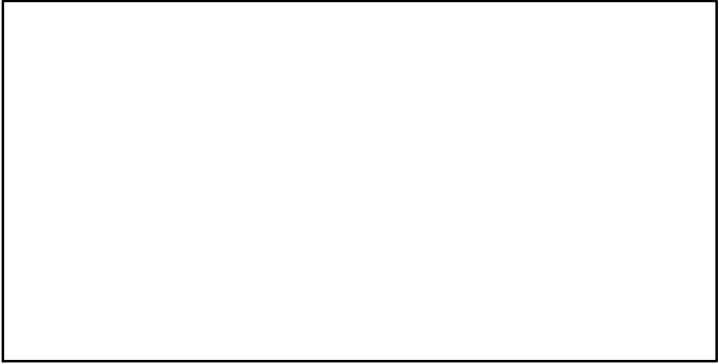
CPUE*



EFFORT*



CdivMSY*



Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.4 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 428 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 30,300,000 | - | - |
| F | F-1/yr | 2011 | 1.4 | - | - |
| ER | ER-calc-ratio | 2011 | 0.902 | - | - |
| TC | TC-MT | 2011 | 644 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 3.5 | | |
| ER/ERmgt | - | - | - | | |

Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

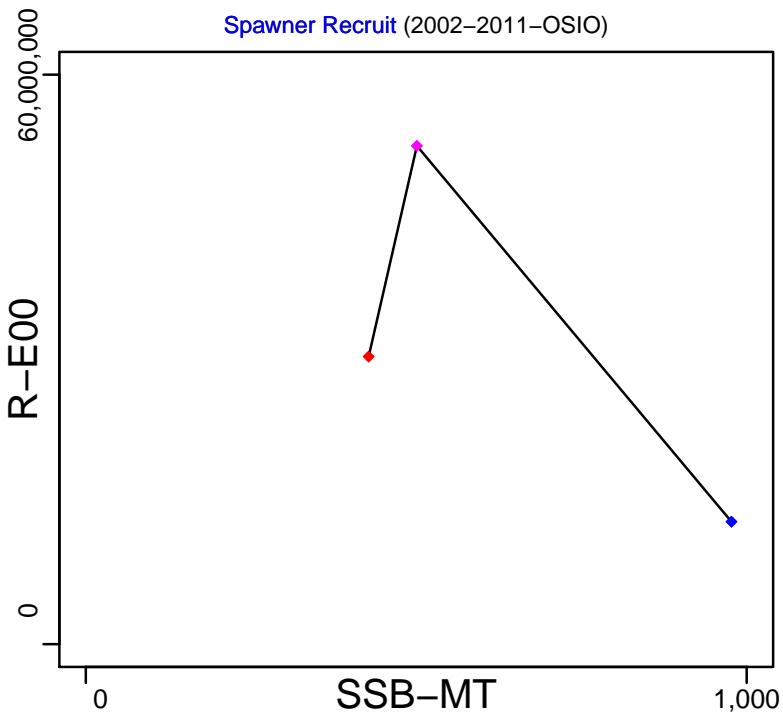
Kobe MSY*



Kobe MGT*



Spawner Recruit (2002–2011–OSIO)



Production*



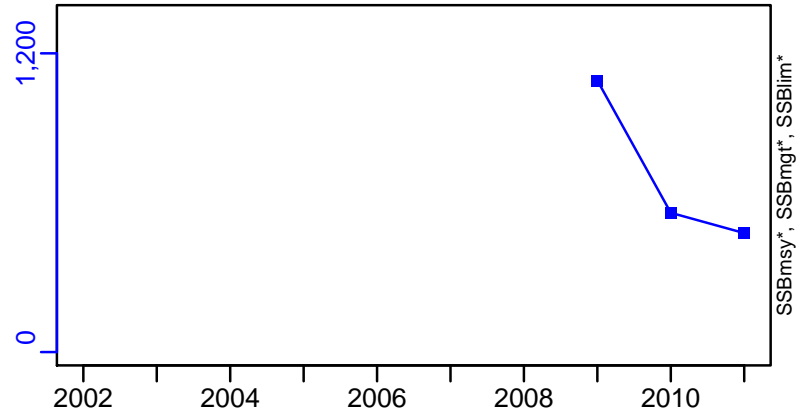
◆ Start Year ◆ End Year * No Data

Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

TB*



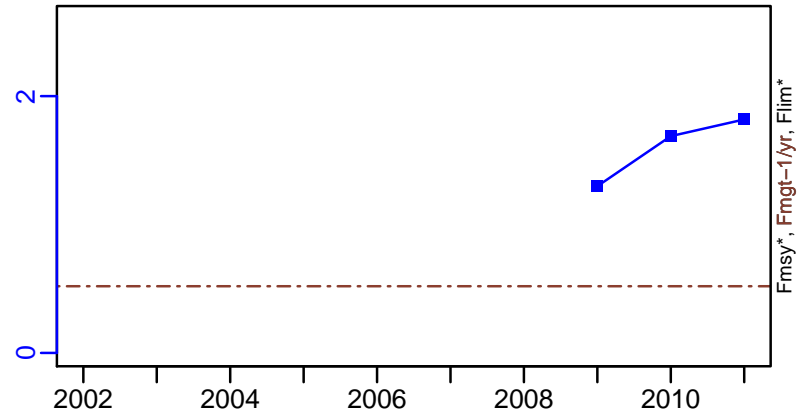
SSB-MT (2002–2011–OSIO)



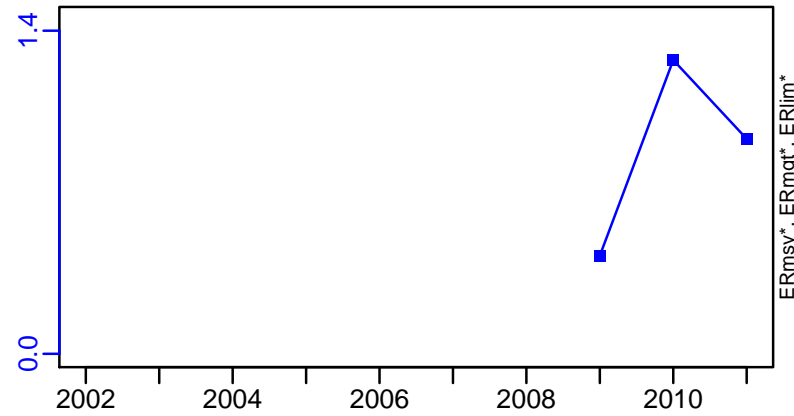
TN *



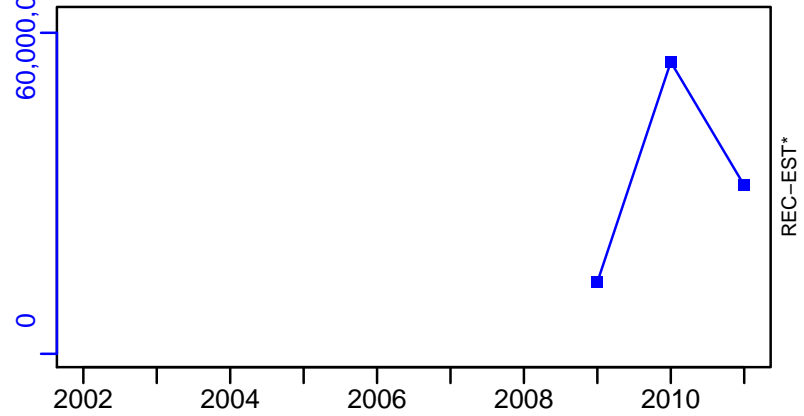
F-1/yr (2002–2011–OSIO)



ER-calc-ratio (2002–2011–OSIO)



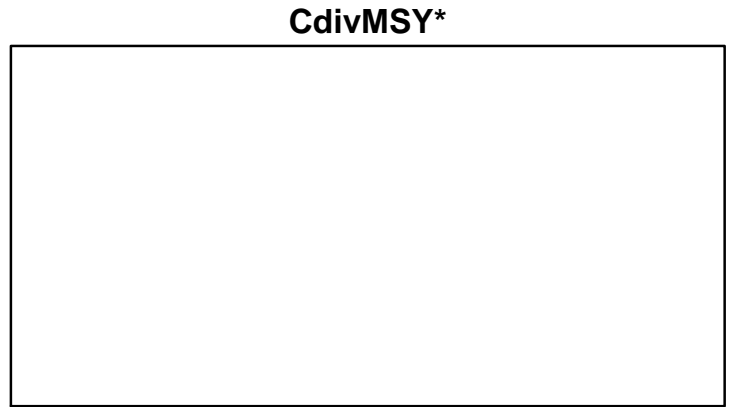
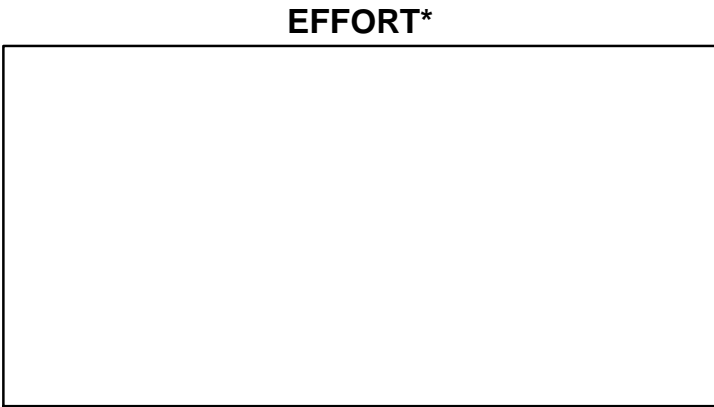
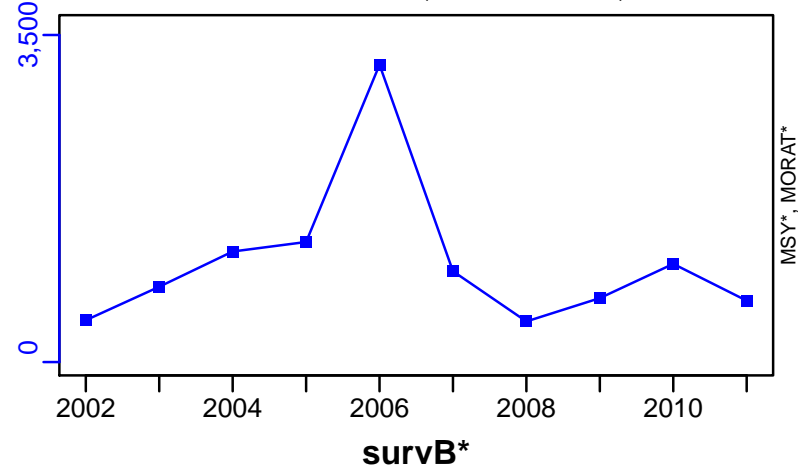
R-E00 (2002–2011–OSIO)



Blue whiting Northern Alboran Sea [BWHITMEDGSA1]

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

TAC*, Cpair*, Cadv*

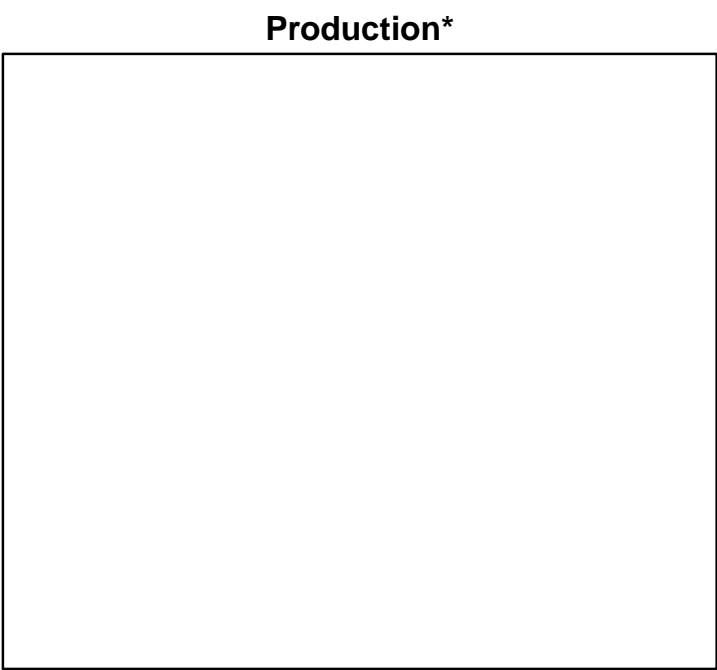
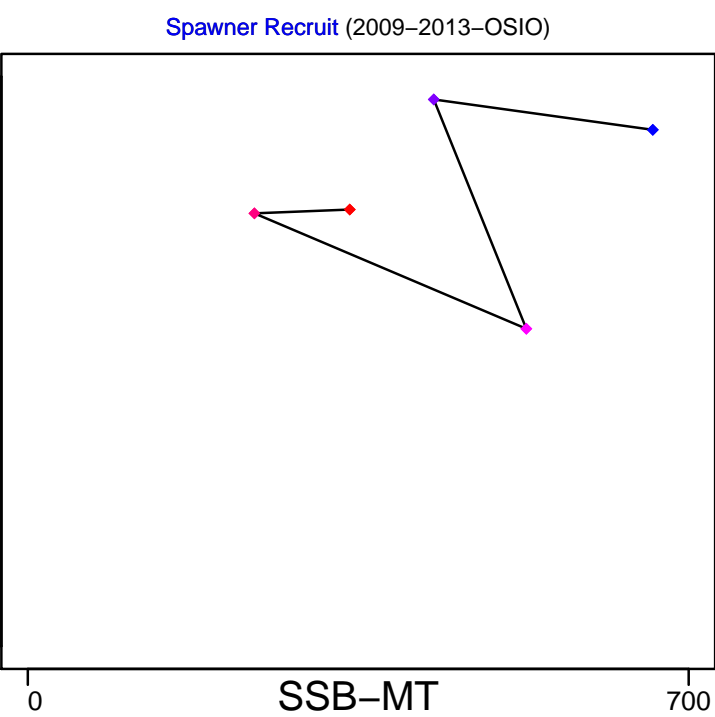


Blue whiting Northern Spain [BWHITMEDGSA6]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.159 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

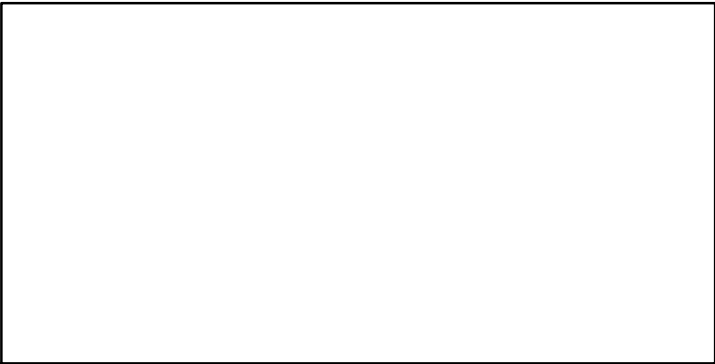
| Time Series | | | | | |
|-------------------|------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 341 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 1.15×10^8 | - | - |
| F | F-1/yr | 2013 | 1.26 | - | - |
| ER | ER-calc-ratio | 2013 | 1.794 | - | - |
| TC | TC-MT | 2013 | 1020 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 7.903 | | |
| ER/ERmgt | - | - | - | | |



◆ Start Year ◆ End Year * No Data

Blue whiting Northern Spain [BWHITMEDGSA6]

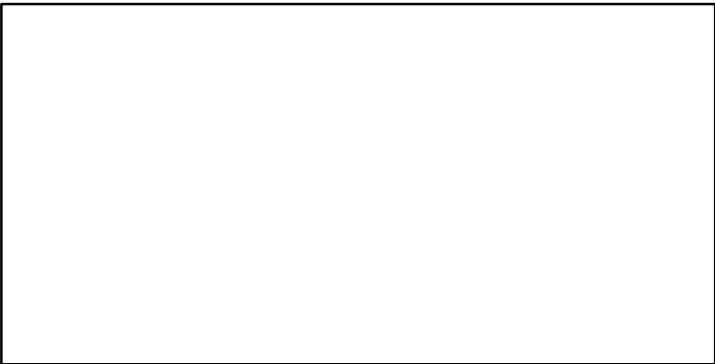
TB*



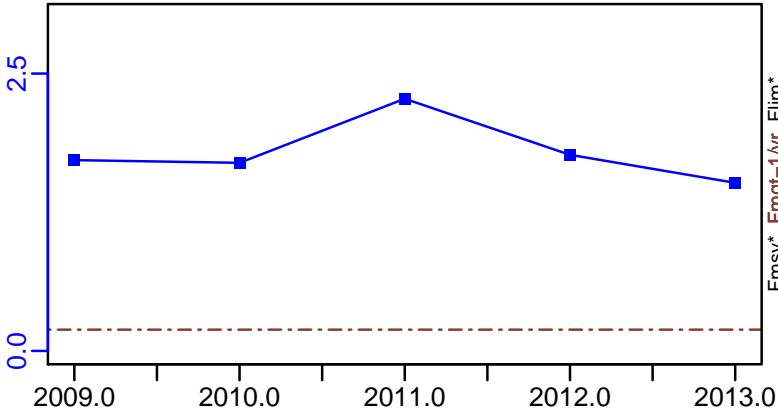
SSB-MT (2009–2013–OSIO)



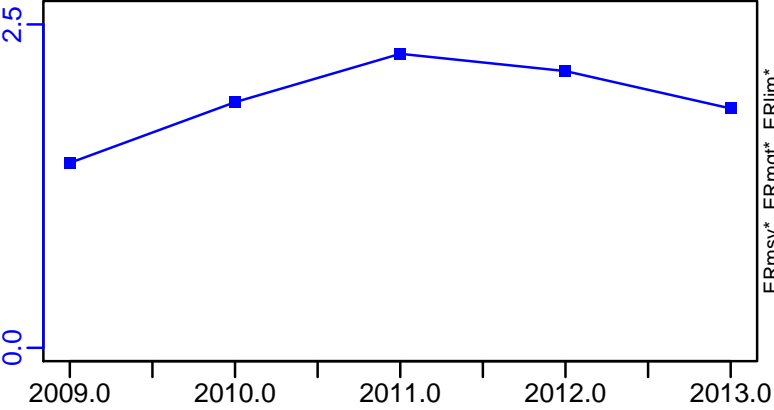
TN *



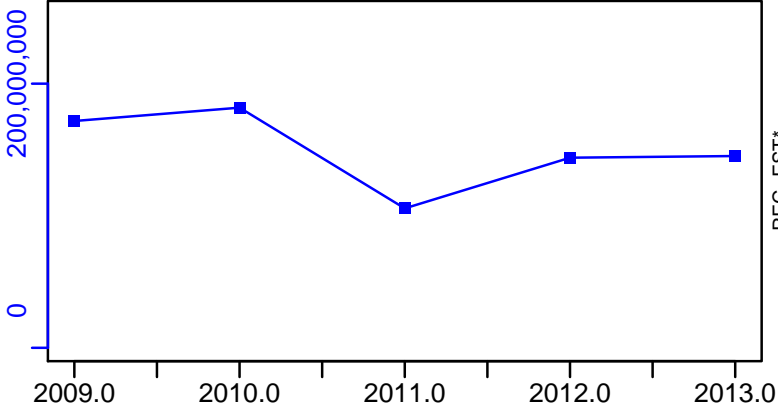
F-1/yr (2009–2013–OSIO)



ER-calc-ratio (2009–2013–OSIO)

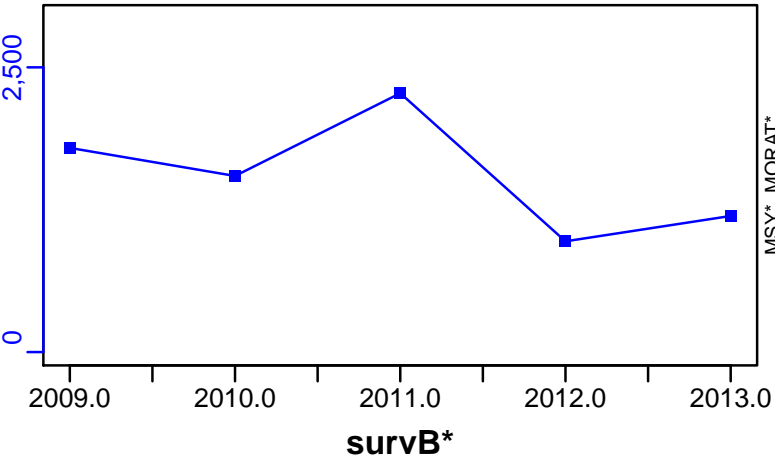


R-E00 (2009–2013–OSIO)



Blue whiting Northern Spain [BWHITMEDGSA6]

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



TAC*, Cpair*, Cadv*



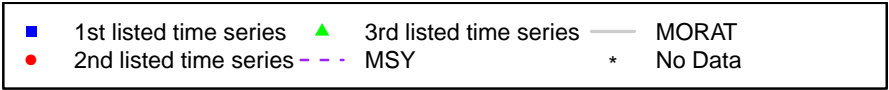
CPUE*



EFFORT*



CdivMSY*



Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.328 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 281 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 6,880,000 | - | - |
| F | F-1/yr | 2013 | 0.378 | - | - |
| ER | ER-calc-ratio | 2013 | 0.218 | - | - |
| TC | TC-MT | 2013 | 102 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 1.151 | | |
| ER/ERmgt | - | - | - | | |

Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

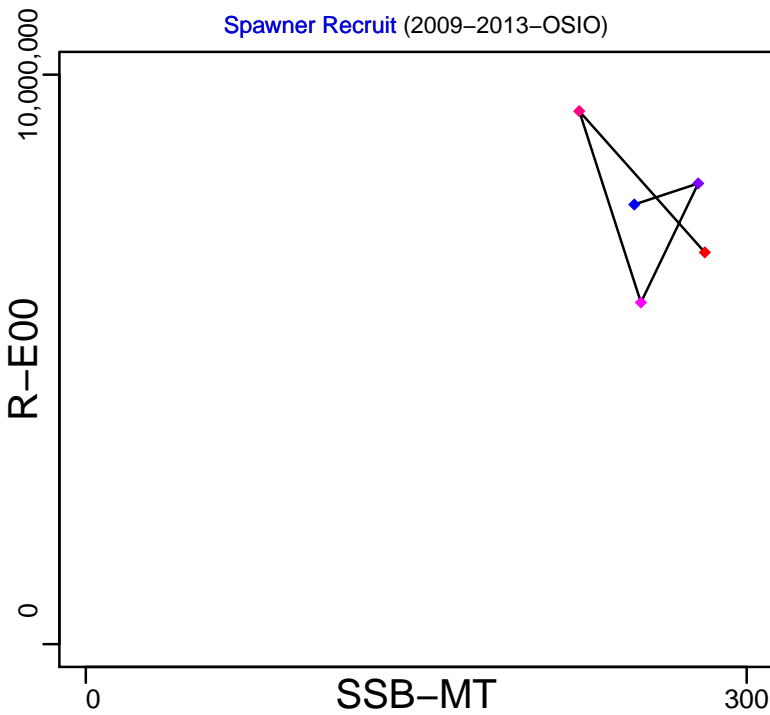
Kobe MSY*



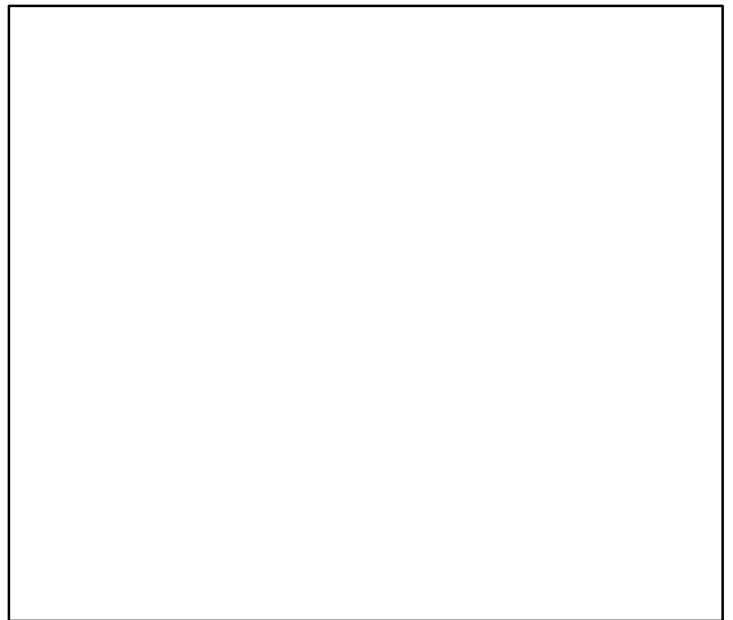
Kobe MGT*



Spawner Recruit (2009–2013–OSIO)



Production*



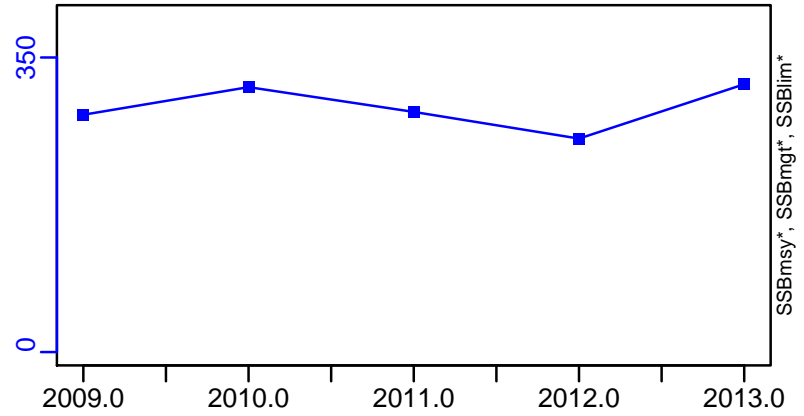
◆ Start Year ◆ End Year * No Data

Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

TB*



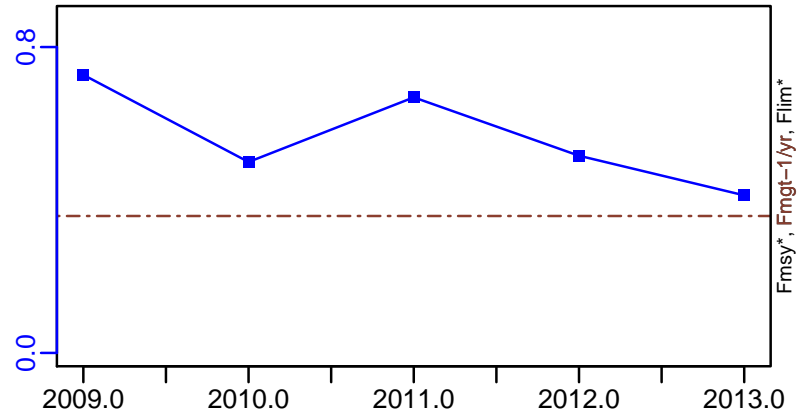
SSB-MT (2009–2013–OSIO)



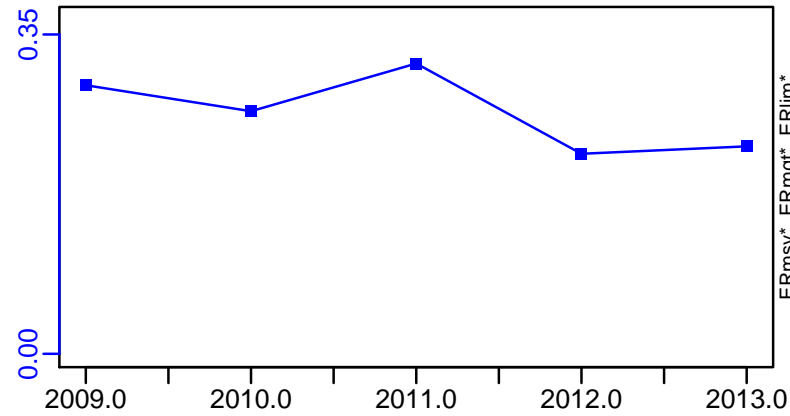
TN *



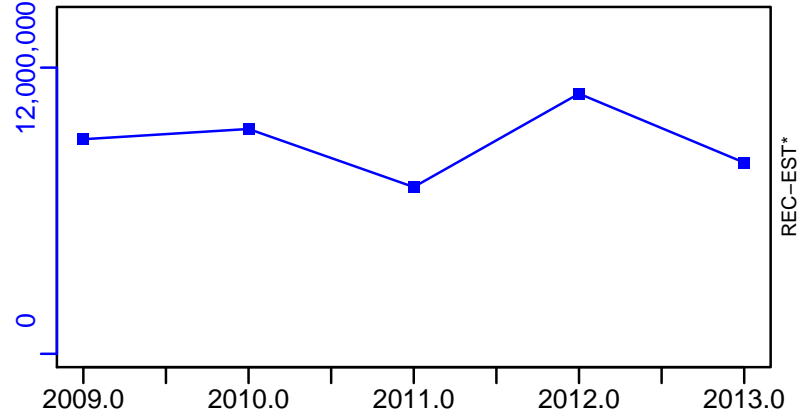
F-1/yr (2009–2013–OSIO)



ER-calc-ratio (2009–2013–OSIO)



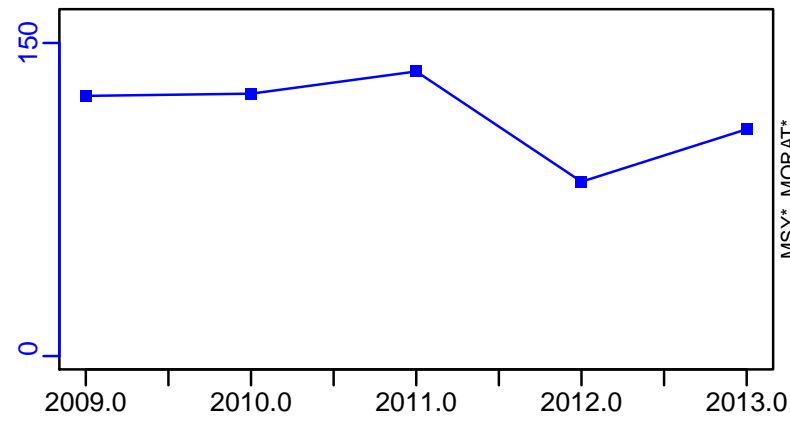
R-E00 (2009–2013–OSIO)



Blue whiting Ligurian and North Tyrrhenian Sea [BWHITMEDGSA9]

TC-MT, TL*, RecC* (2009–2013–OSIO)

TAC*, Cpair*, Cadv*

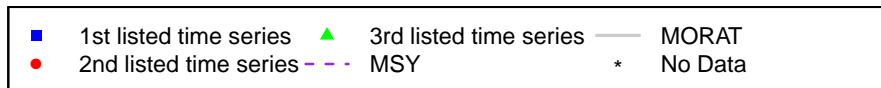


survB*

CPUE*

EFFORT*

CdivMSY*



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

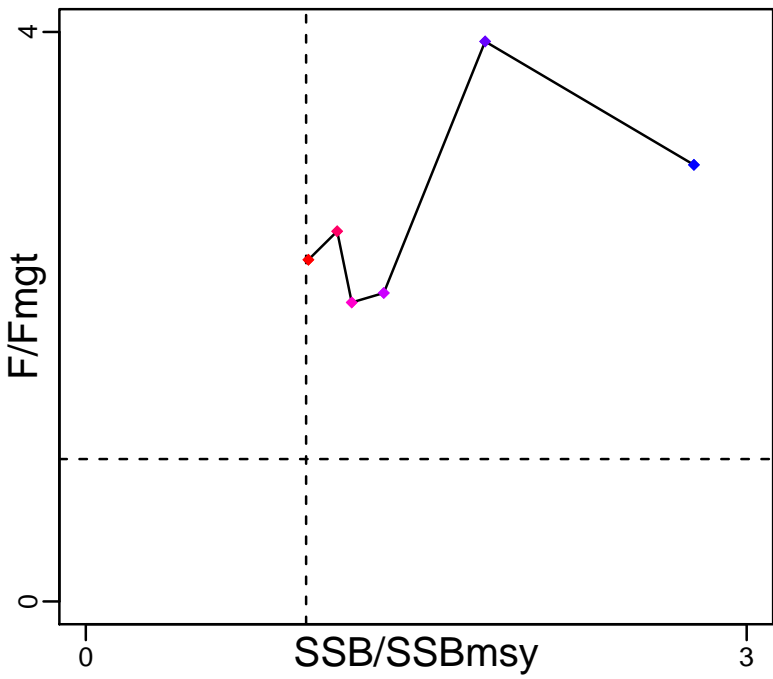
| Metadata | |
|-----------------------------|---|
| Scientific Name | Pagellus erythrinus |
| Current Assess ID | STECF-CPANDMEDGSA15-16-2006-2011-OSIO |
| Area | Malta Island and South of Sicily (GSA 15, 16) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2011 | 543 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2011 | 0.146 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.3 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2011 | 175 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

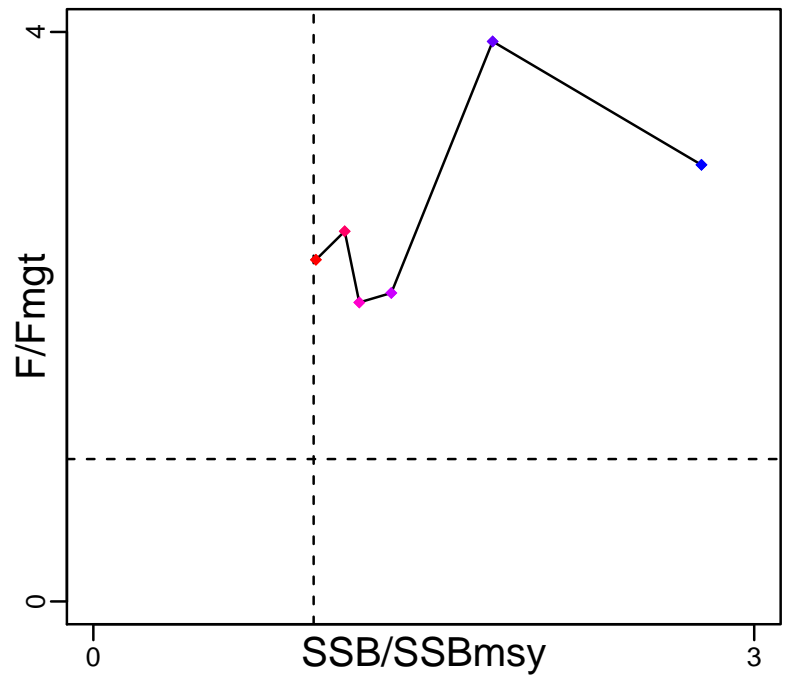
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 549 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 4,850,000 | - | - |
| F | F-1/yr | 2011 | 0.72 | - | - |
| ER | ER-calc-ratio | 2011 | 0.227 | - | - |
| TC | TC-MT | 2011 | 273 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2011 | 1.01 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2011 | 1.548 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 2.4 | | |
| ER/ERmgt | - | - | - | | |

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

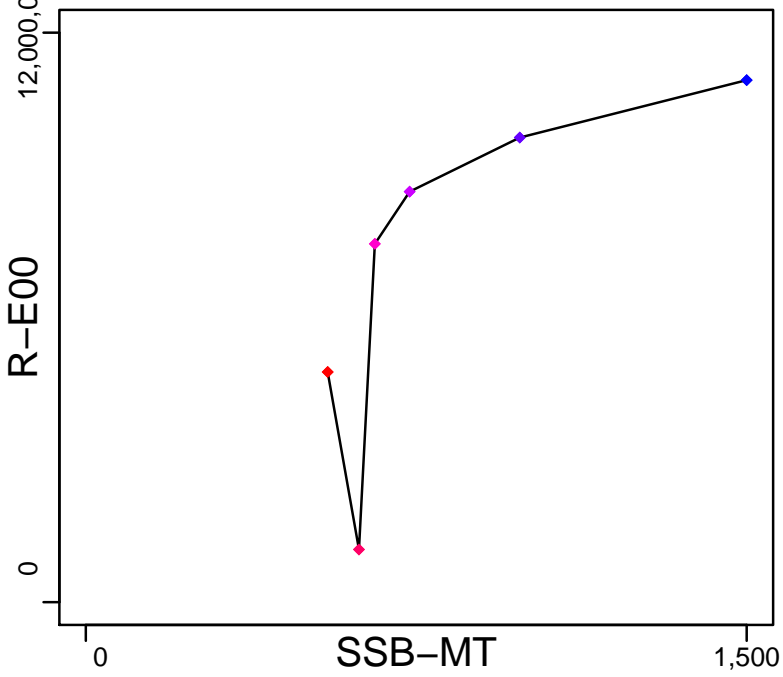
Kobe MSYpref (2006-2011-OSIO)



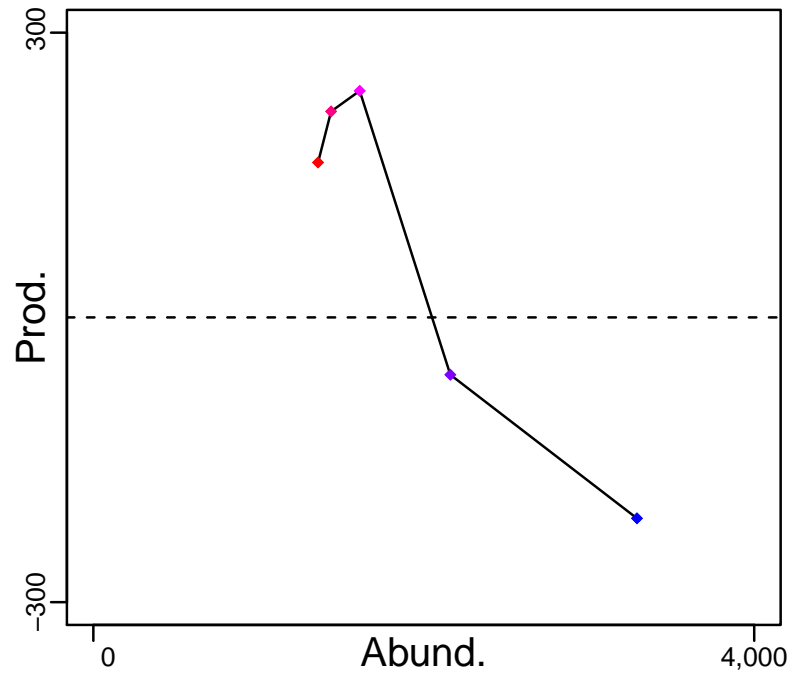
Kobe MGTpref (2006-2011-OSIO)



Spawner Recruit (2006-2011-OSIO)



Production (2006-2011-OSIO)



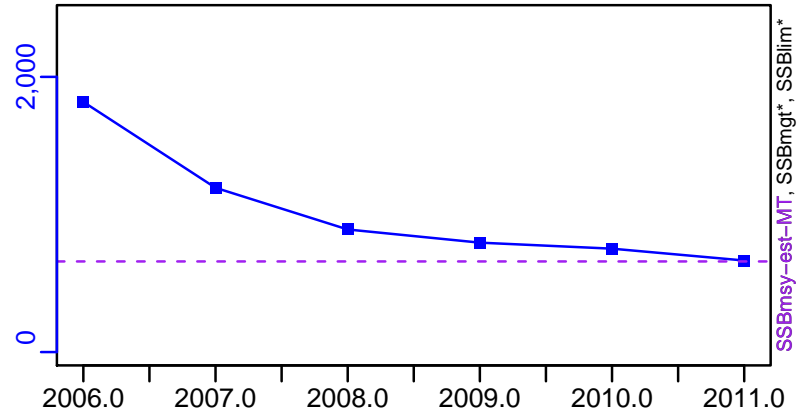
◆ Start Year ◆ End Year * No Data

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

TB*



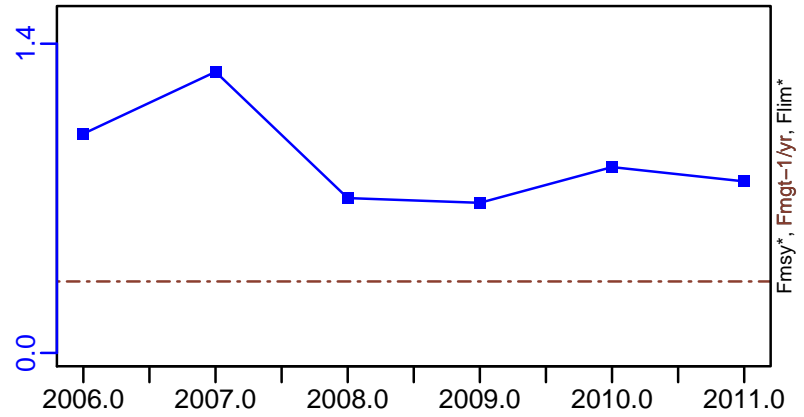
SSB-MT (2006-2011-OSIO)



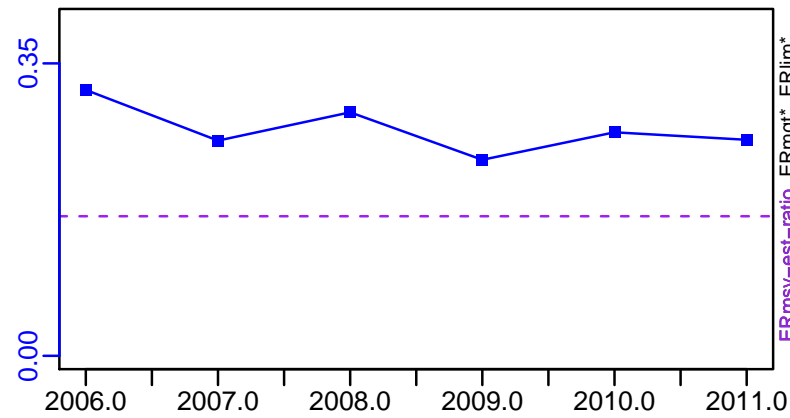
TN *



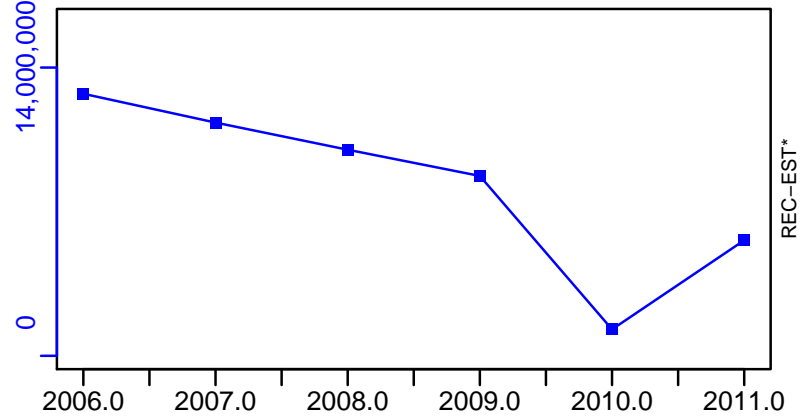
F-1/yr (2006-2011-OSIO)



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



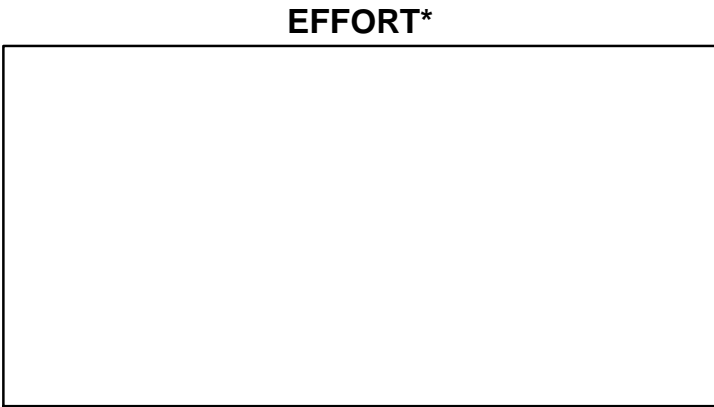
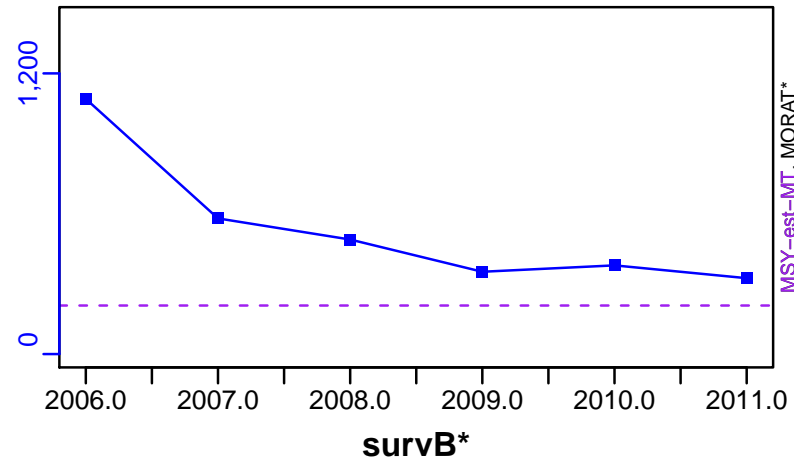
R-E00 (2006-2011-OSIO)



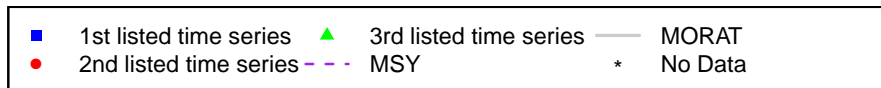
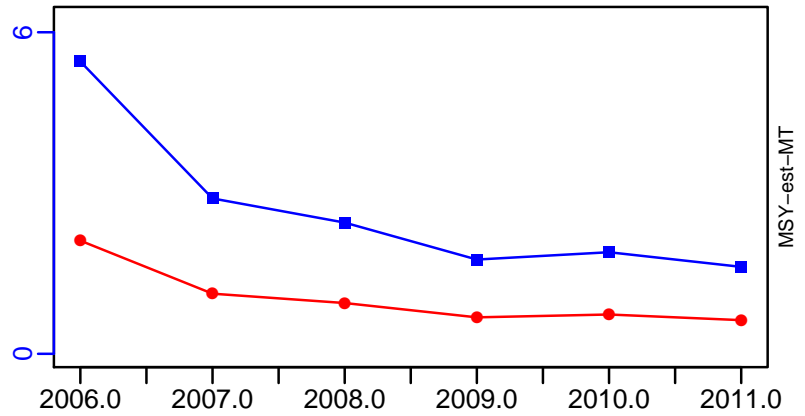
Common pandora Malta Island and South of Sicily (GSA 15, 16) [CPANDMEDGSA15-16]

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

TAC*, Cpair*, Cadv*



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



Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

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



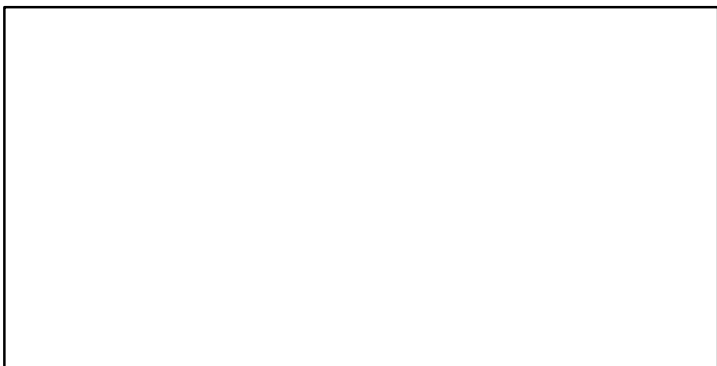
Production*



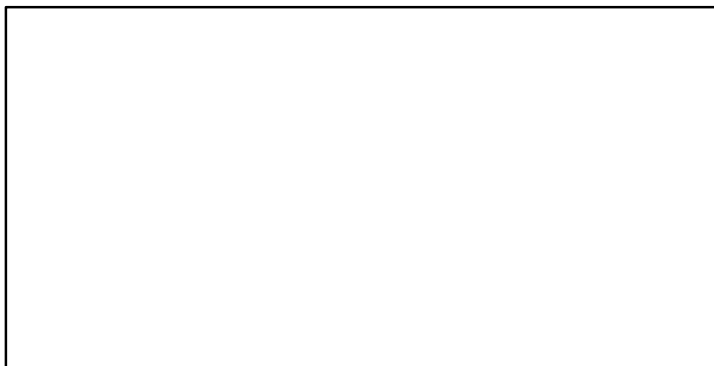
◆ Start Year ◆ End Year * No Data

Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

TB*



SSB*



TN *



F*



ER*



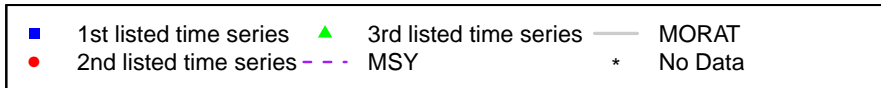
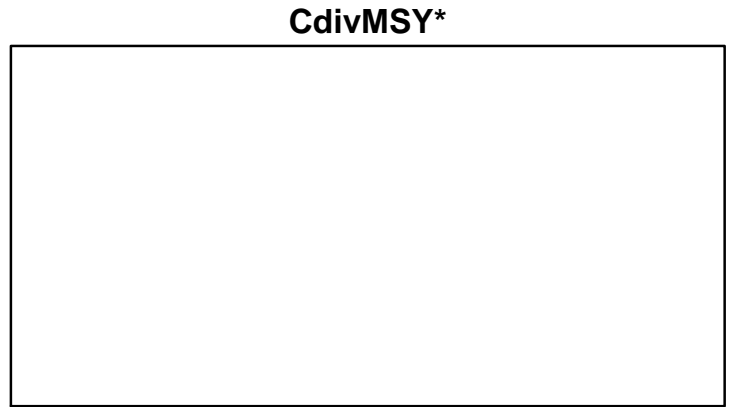
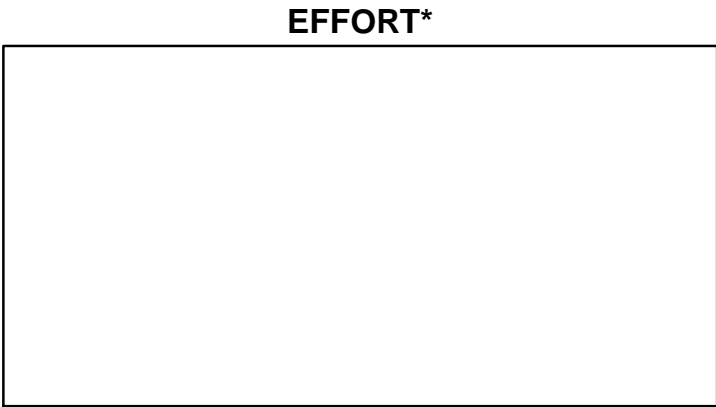
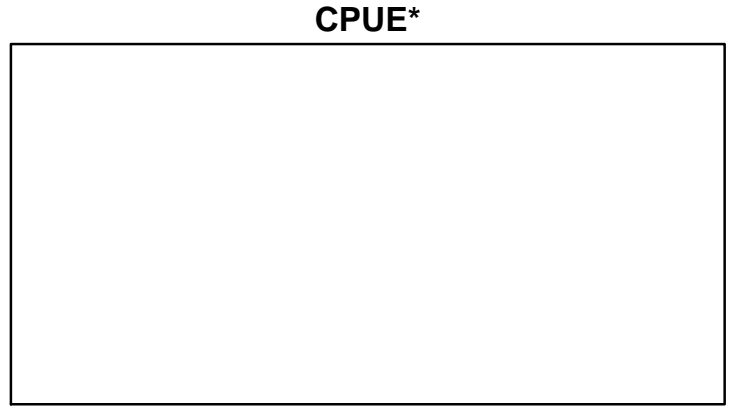
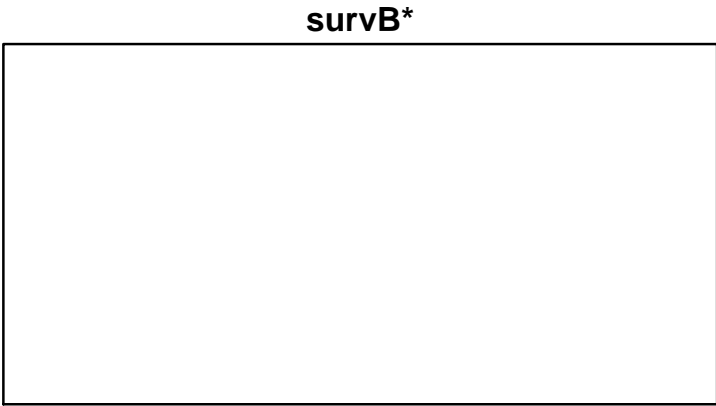
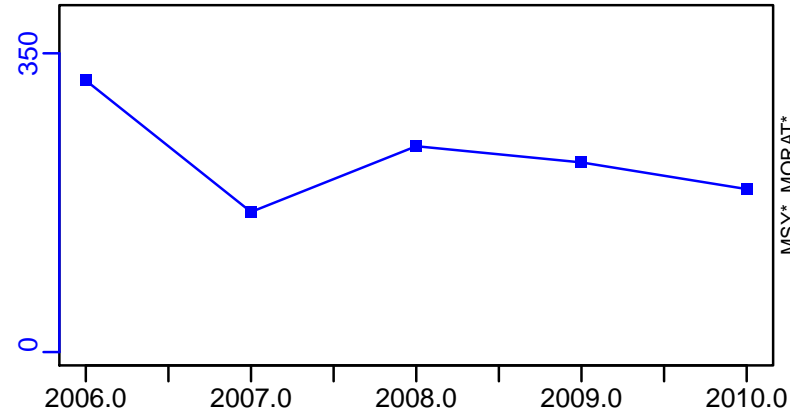
Recruits*



Common pandora Ligurian and North Tyrrhenian Sea [CPANDMEDGSA9]

TC-MT, TL*, RecC* (2006–2010–OSIO)

TAC*, Cpair*, Cadv*

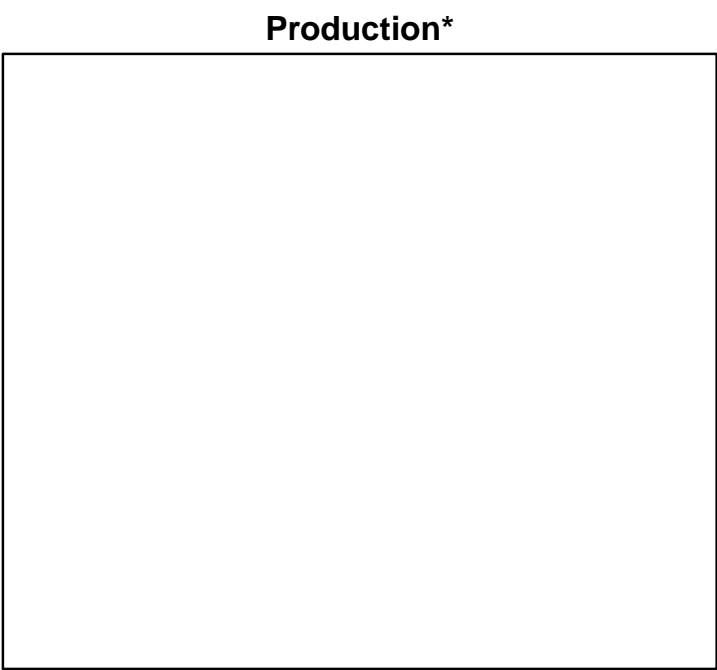
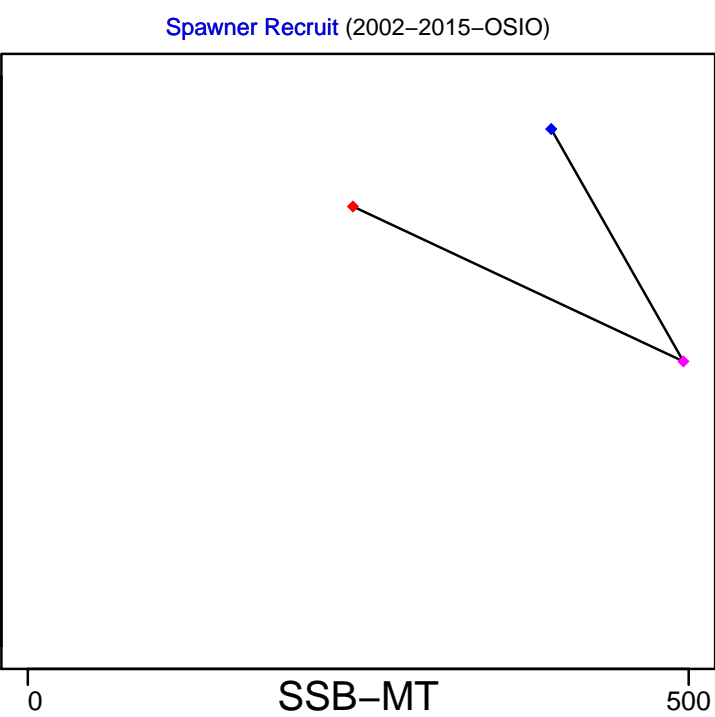


European seabass Gulf of Lions [EBASSGSA7]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Dicentrarchus labrax |
| Current Assess ID | STECF-EBASSGSA7-2002-2015-OSIO |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2015 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.136 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

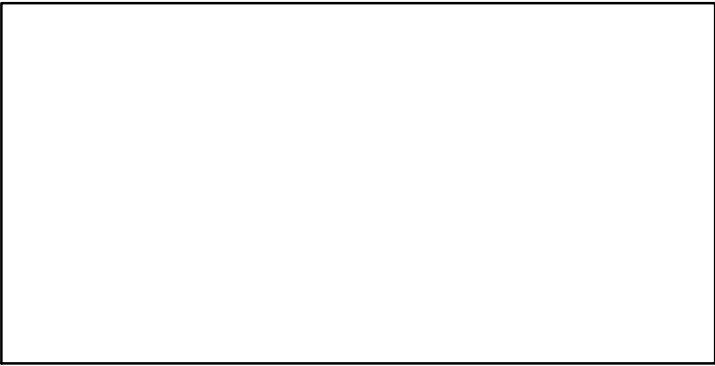
| Time Series | | | | | |
|-------------------|------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2015 | 246 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 3.86×10^8 | - | - |
| F | F-1/yr | 2015 | 0.536 | - | - |
| ER | ER-calc-ratio | 2015 | 0.522 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2015 | 272 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 3.941 | | |
| ER/ERmgt | - | - | - | | |



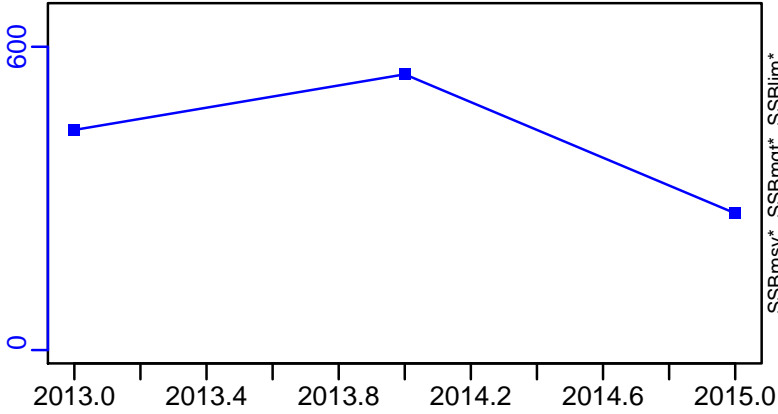
◆ Start Year ◆ End Year * No Data

European seabass Gulf of Lions [EBASSGSA7]

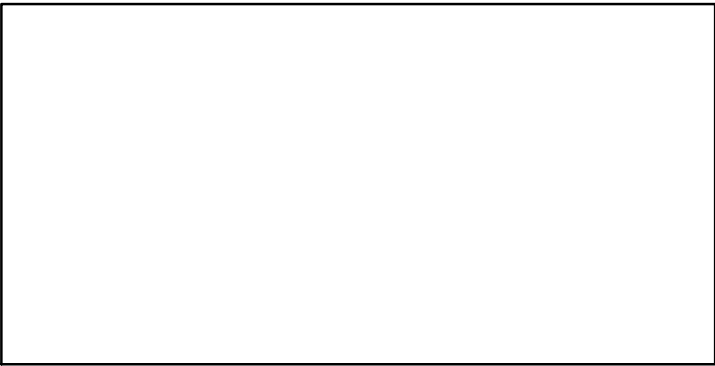
TB*



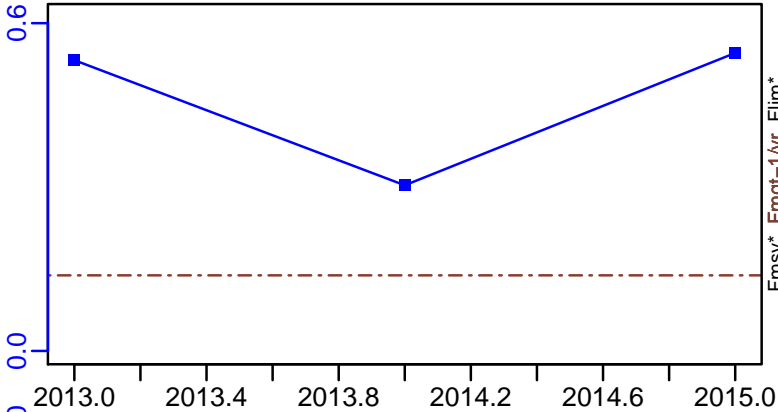
SSB-MT (2002–2015–OSIO)



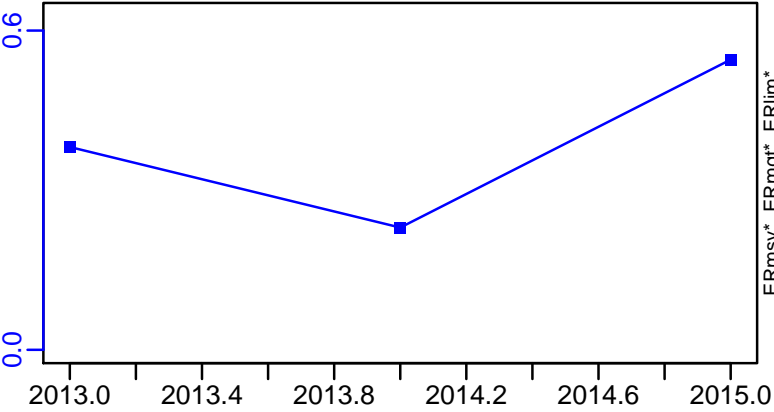
TN *



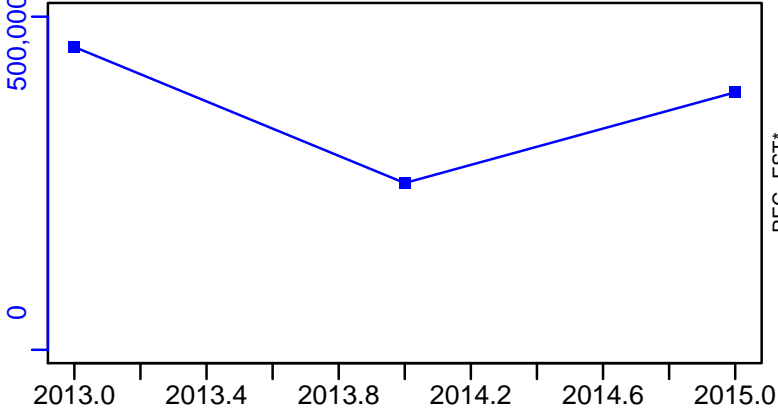
F-1/yr (2002–2015–OSIO)



ER-calc-ratio (2002–2015–OSIO)

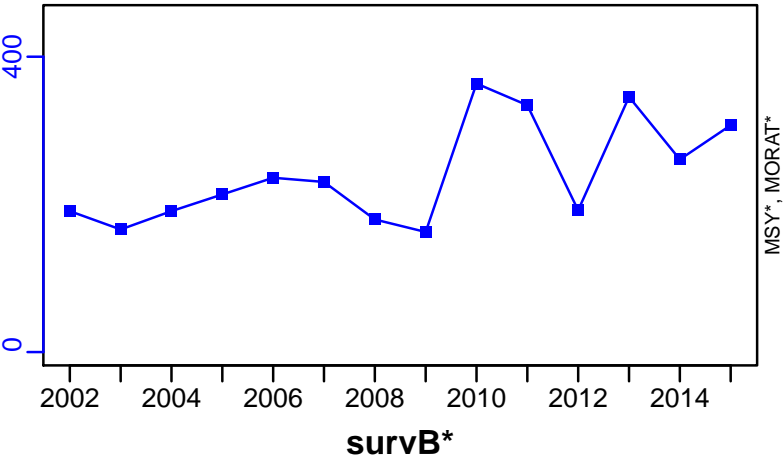


R-E00 (2002–2015–OSIO)



European seabass Gulf of Lions [EBASSGSA7]

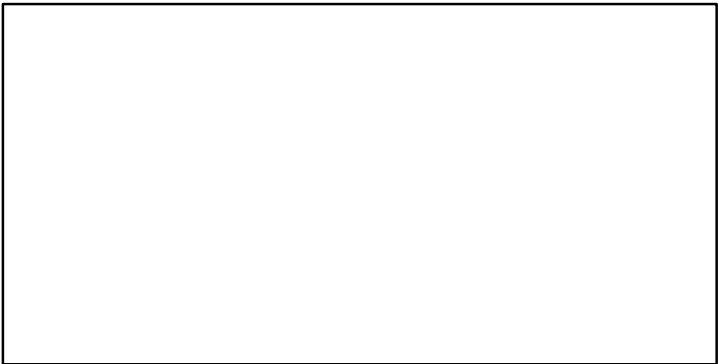
TL-MT, TC*, RecC* (2002-2015-OSIO)



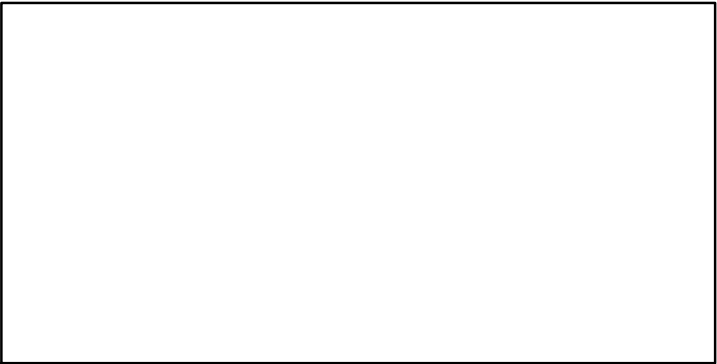
TAC*, Cpair*, Cadv*



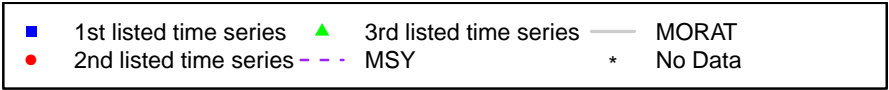
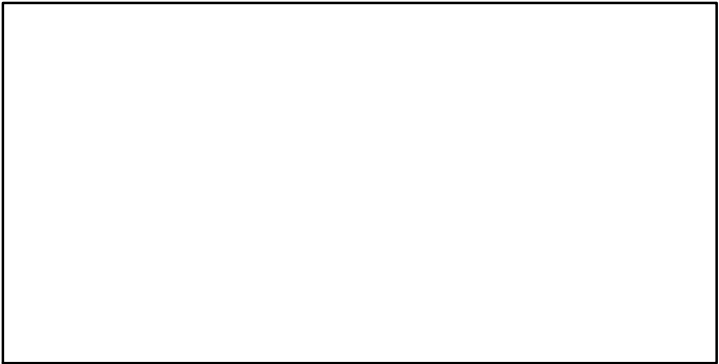
CPUE*



EFFORT*



CdivMSY*



Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

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

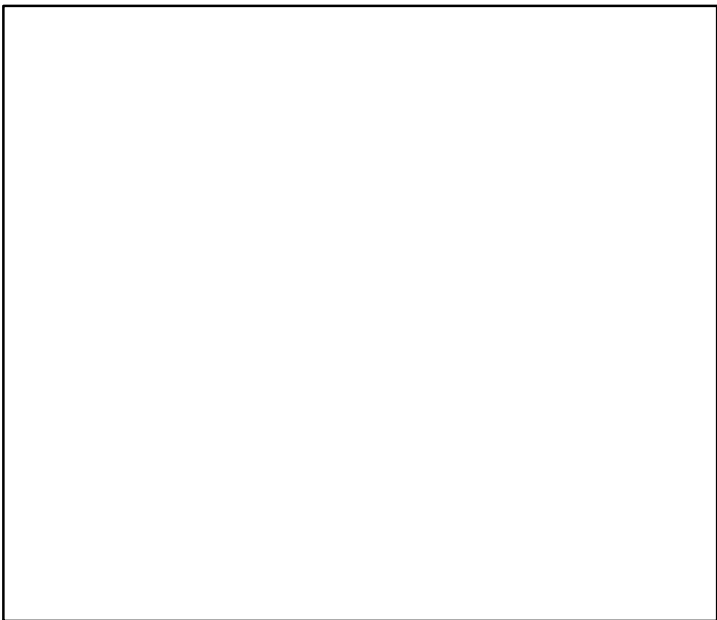
Kobe MSY*



Kobe MGT*



Spawner Recruit*



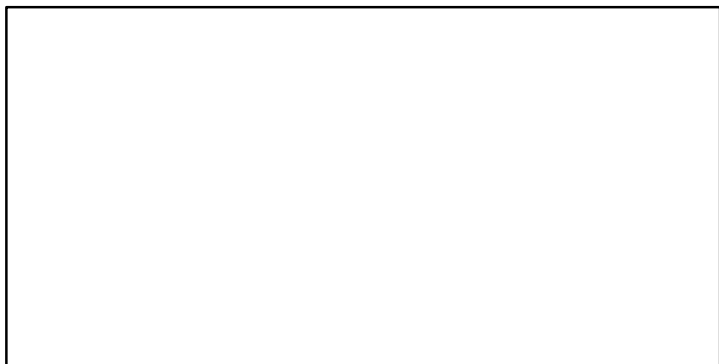
Production*



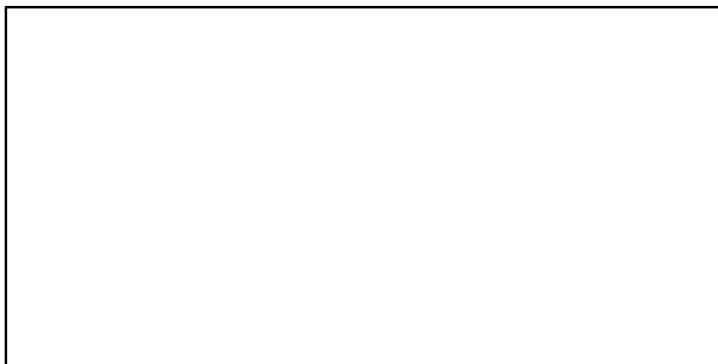
◆ Start Year ◆ End Year * No Data

Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

TB*



SSB*



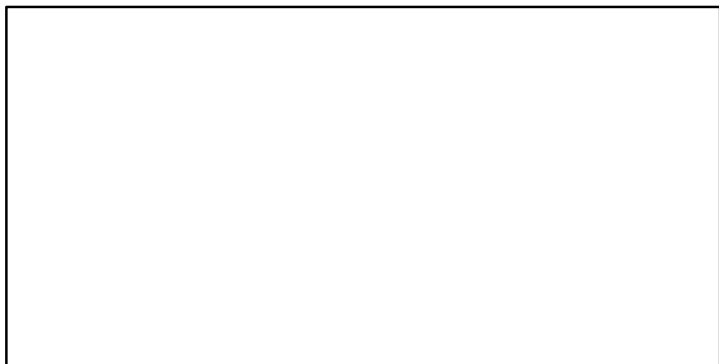
TN *



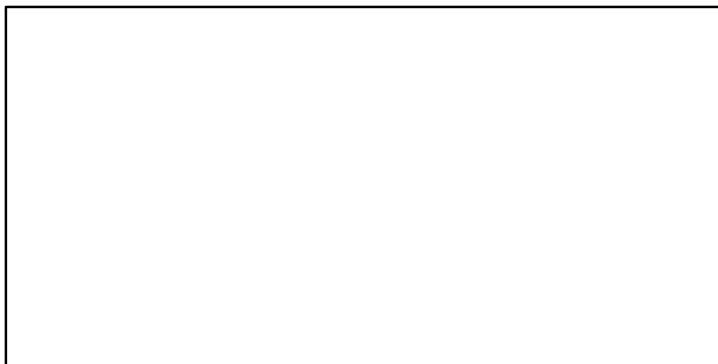
F*



ER*

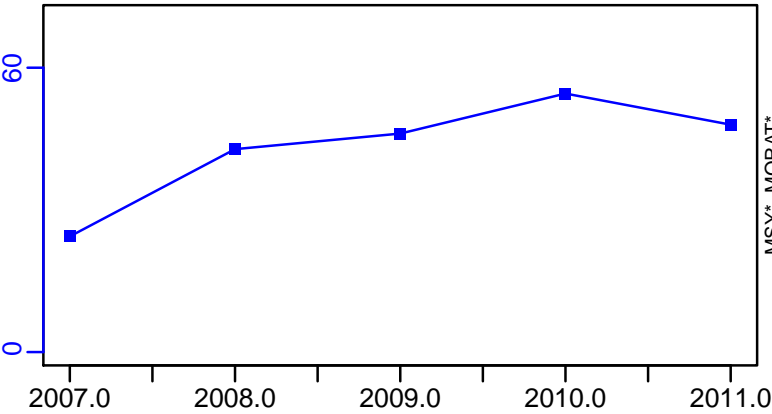


Recruits*



Greater forkbeard Ligurian and North Tyrrhenian Sea [GFORKBMEDGSA9]

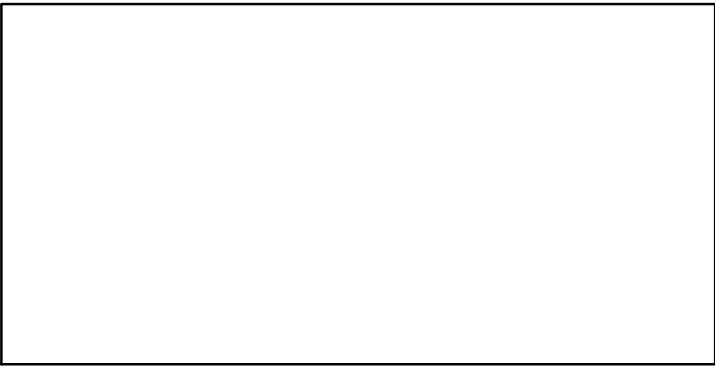
TC-MT, TL*, RecC* (2007-2011-OSIO)



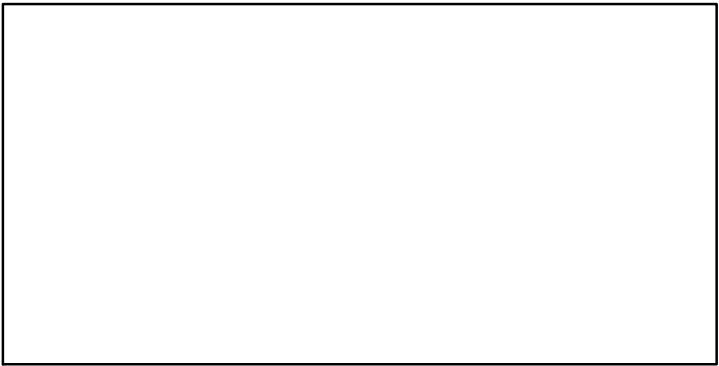
TAC*, Cpair*, Cadv*



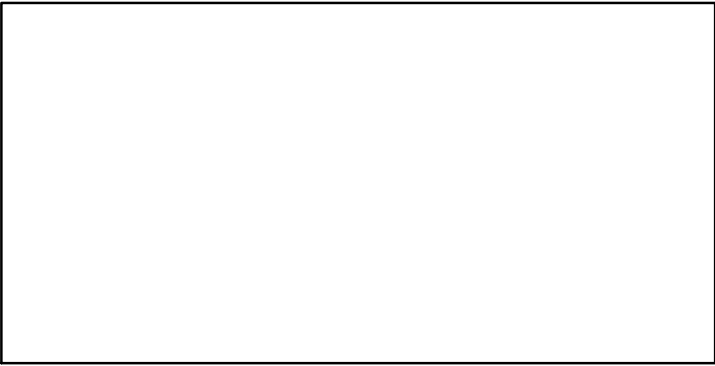
survB*



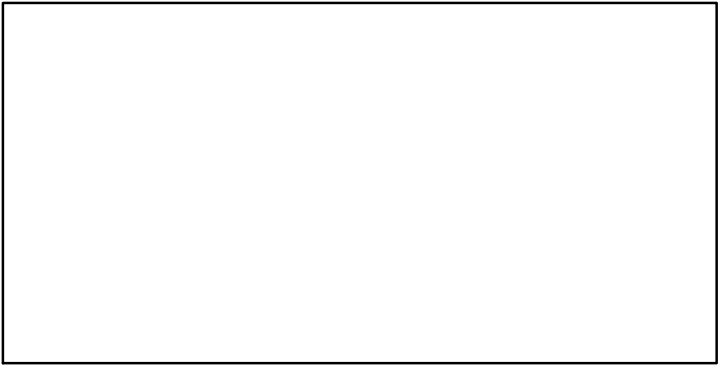
CPUE*



EFFORT*



CdivMSY*

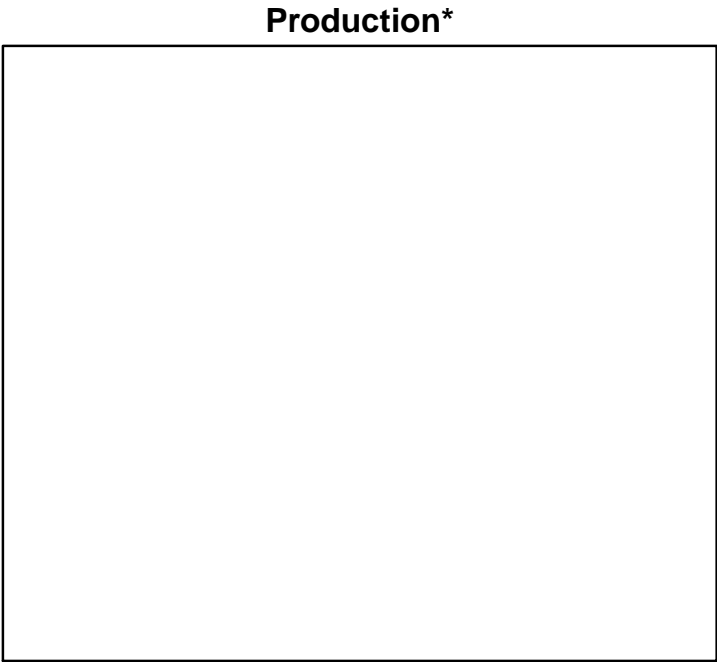
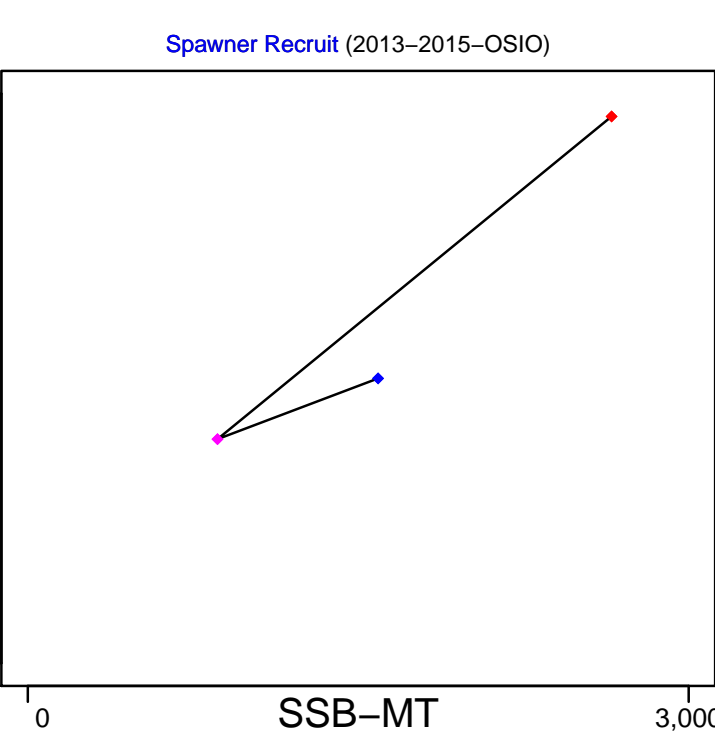


Gilthead seabream Gulf of Lions [GHBRMGSA7]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Sparus aurata |
| Current Assess ID | STECF-GHBRMGSA7-2013-2015-OSIO |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2015 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.19 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2015 | 2650 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 5.76×10^{10} | - | - |
| F | F-1/yr | 2015 | 0.45 | - | - |
| ER | ER-calc-ratio | 2015 | 0.288 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2015 | 1700 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 2.368 | | |
| ER/ERmgt | - | - | - | | |



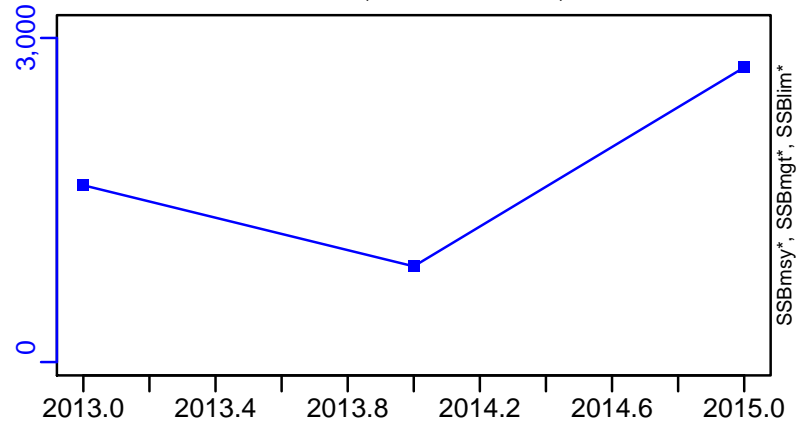
◆ Start Year ◆ End Year * No Data

Gilthead seabream Gulf of Lions [GHBRMGSA7]

TB*



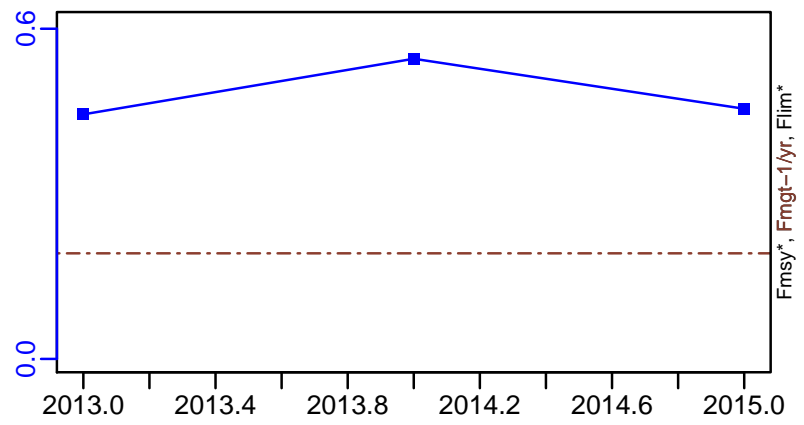
SSB-MT (2013–2015–OSIO)



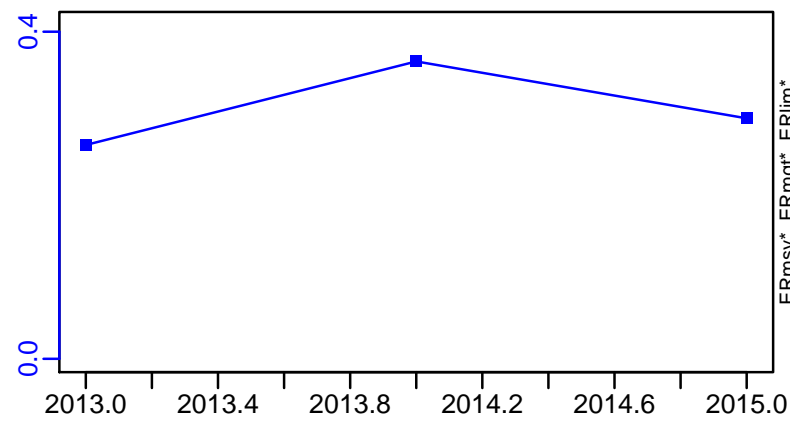
TN *



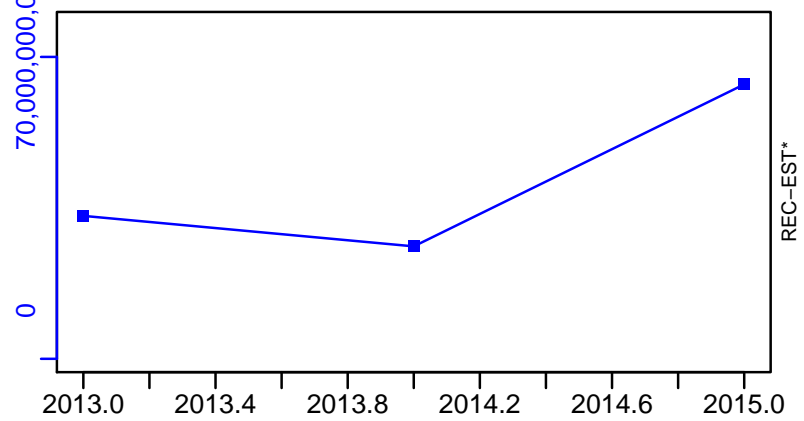
F-1/yr (2013–2015–OSIO)



ER-calc-ratio (2013–2015–OSIO)

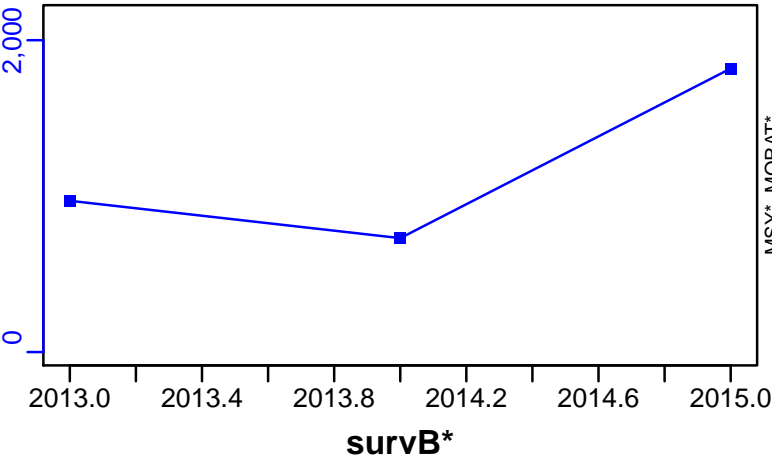


R-E00 (2013–2015–OSIO)



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]

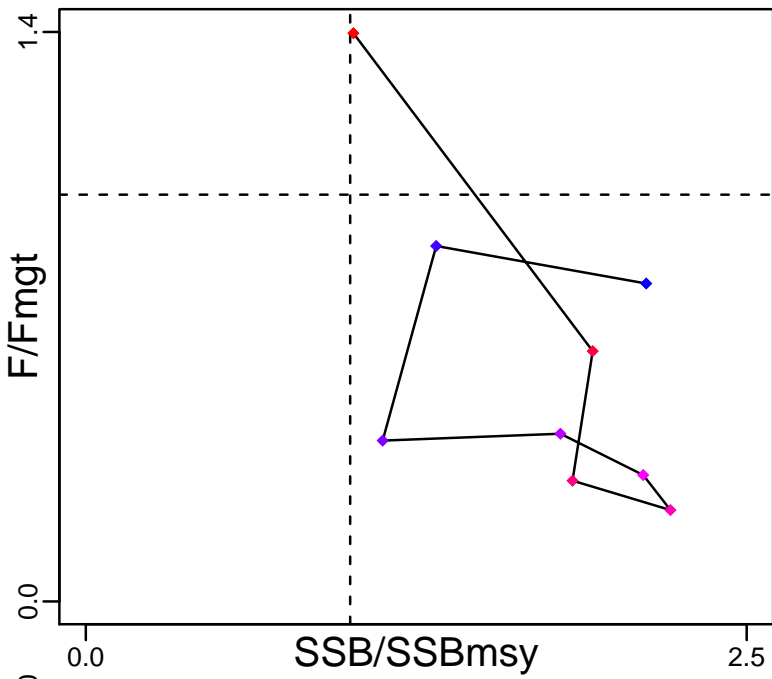
| Metadata | |
|-----------------------------|---|
| Scientific Name | Aristaeomorpha foliacea |
| Current Assess ID | STECF-GRSHRIMPEDGSA10-2006-2014-OSIO |
| Area | South Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 262 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.62 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.65 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 408 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 265 |
| Flim | - | - | - |
| ERlim | - | - | - |

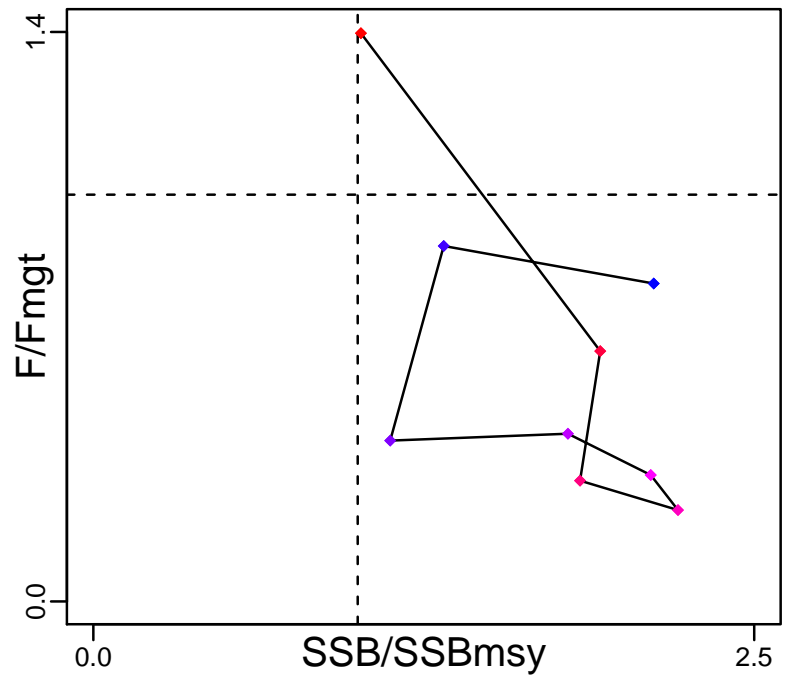
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 265 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.68×10^8 | - | - |
| F | F-1/yr | 2014 | 0.908 | - | - |
| ER | ER-calc-ratio | 2014 | 0.682 | - | - |
| TC | TC-MT | 2014 | 454 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.012 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 1.099 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.397 | | |
| ER/ERmgt | - | - | - | | |

Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

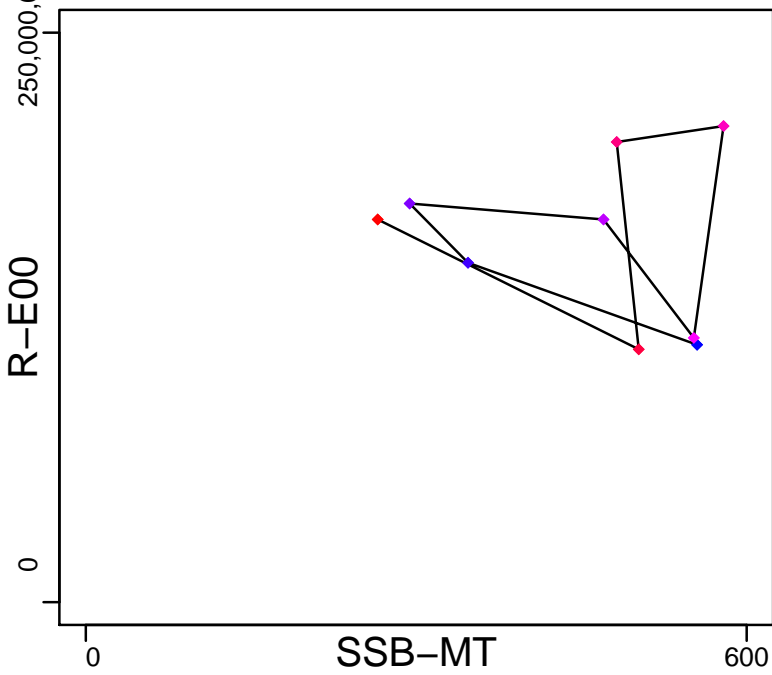
Kobe MSYpref (2006–2014–OSIO)



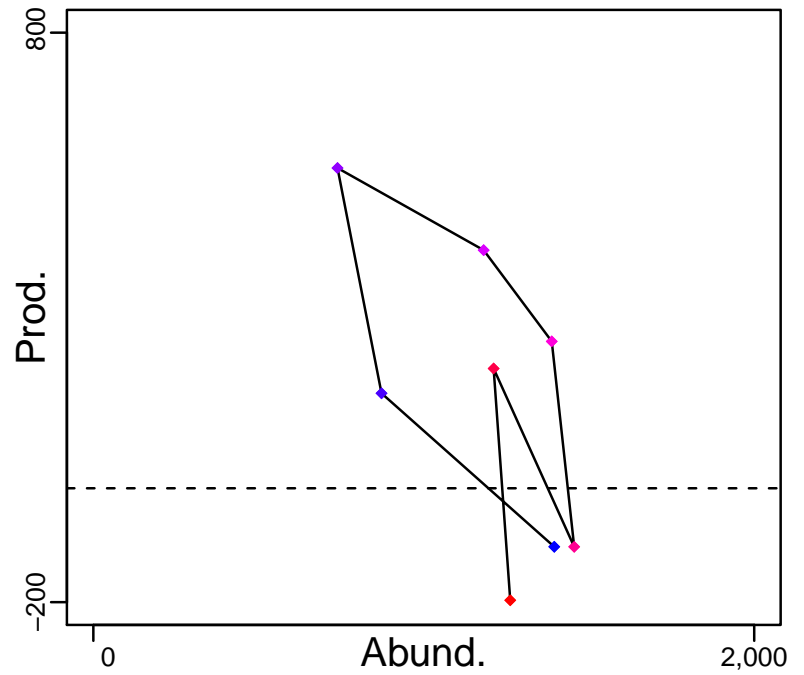
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



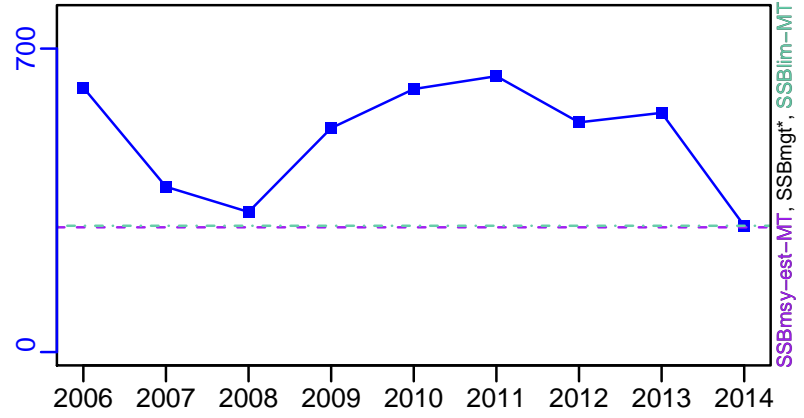
◆ Start Year ◆ End Year * No Data

Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

TB*



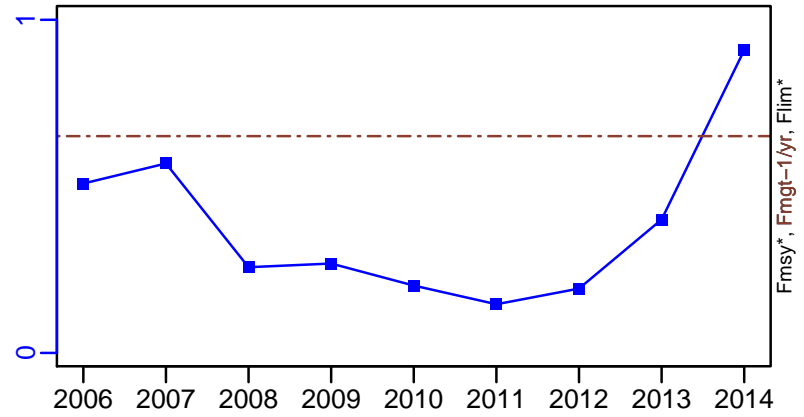
SSB-MT (2006–2014–OSIO)



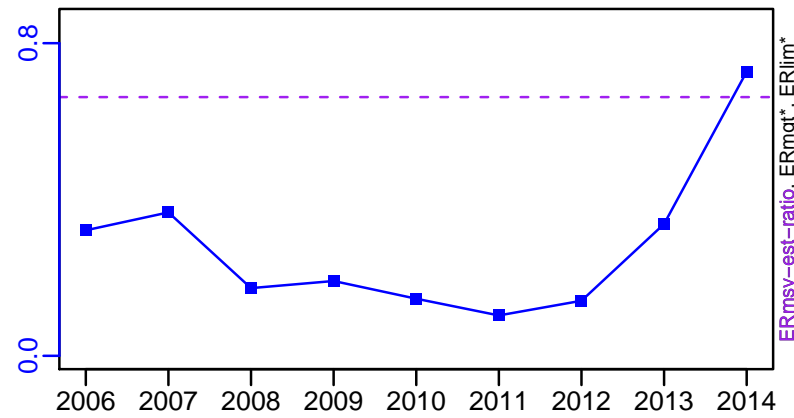
TN *



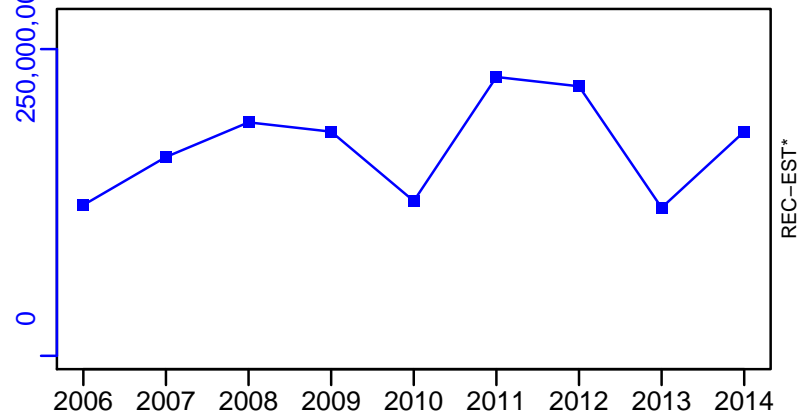
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

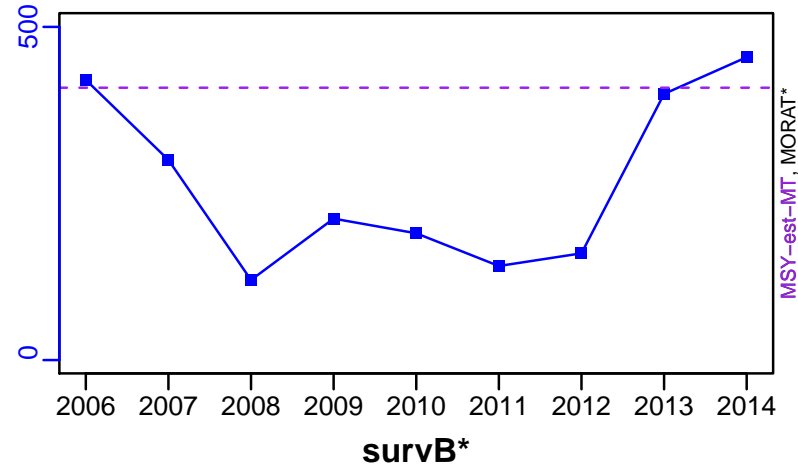


R-E00 (2006–2014–OSIO)



Giant red shrimp South Tyrrhenian Sea [GRSHRIMPEDGSA10]

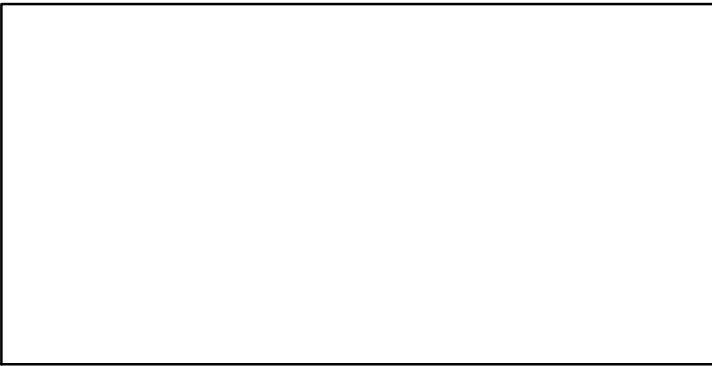
TC-MT, TL*, RecC* (2006–2014–OSIO)



TAC*, Cpair*, Cadv*



survB*



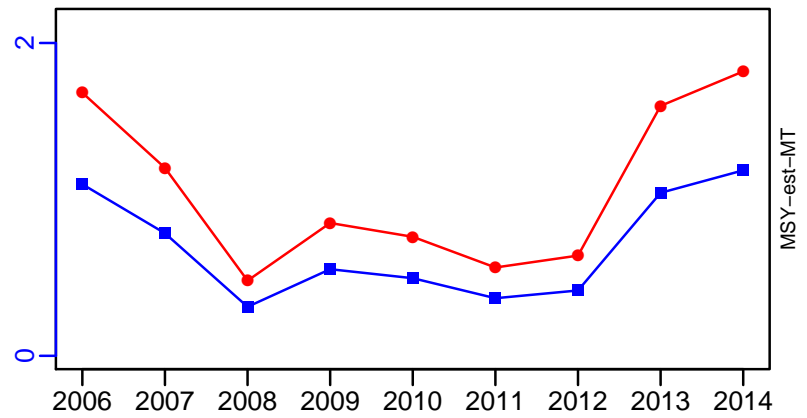
CPUE*



EFFORT*



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



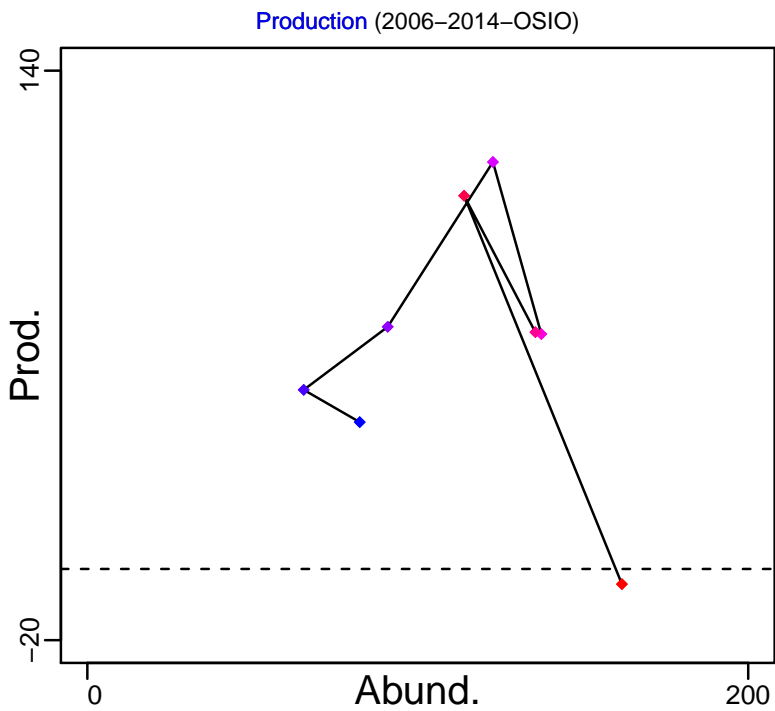
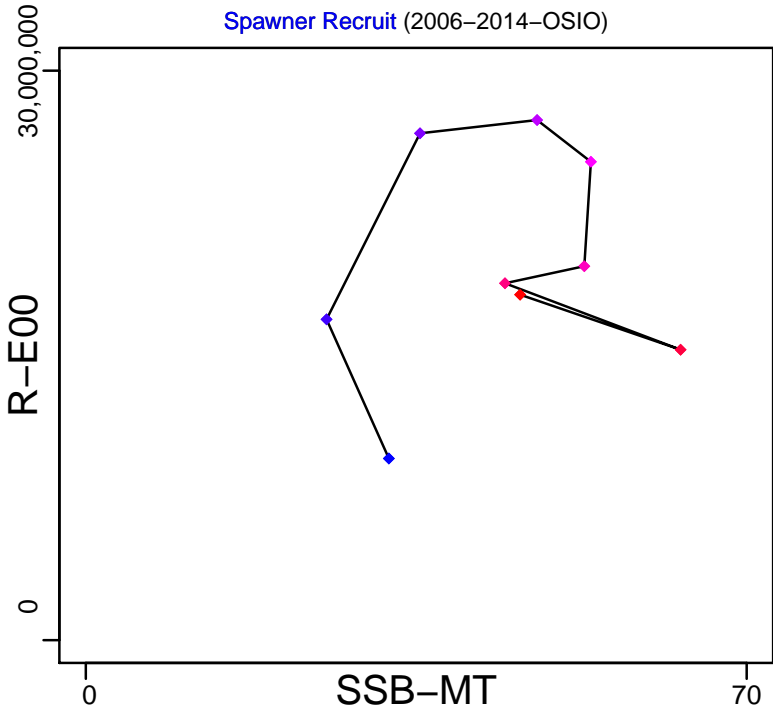
- 1st listed time series
- 2nd listed time series
- 3rd listed time series
- MSY
- MORAT
- No Data

Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.31 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 26 |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 46 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 18,200,000 | - | - |
| F | F-1/yr | 2014 | 0.496 | - | - |
| ER | ER-calc-ratio | 2014 | 0.418 | - | - |
| TC | TC-MT | 2014 | 49 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.6 | | |
| ER/ERmgt | - | - | - | | |



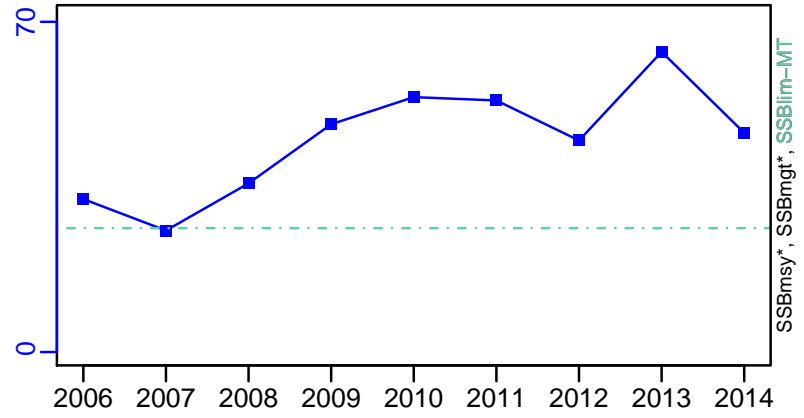
◆ Start Year ◆ End Year * No Data

Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

TB*



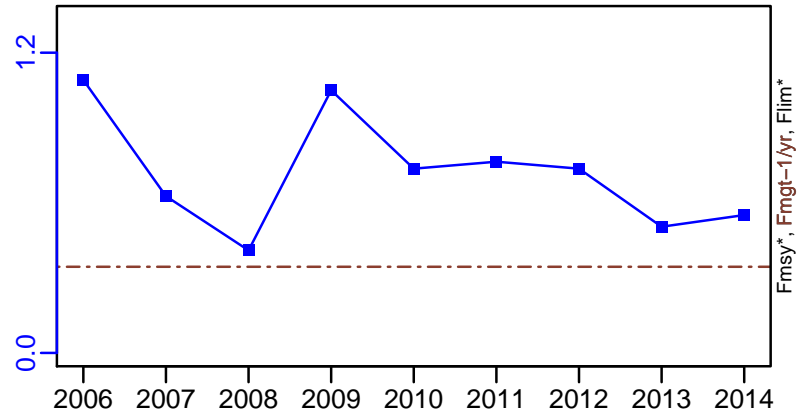
SSB-MT (2006–2014–OSIO)



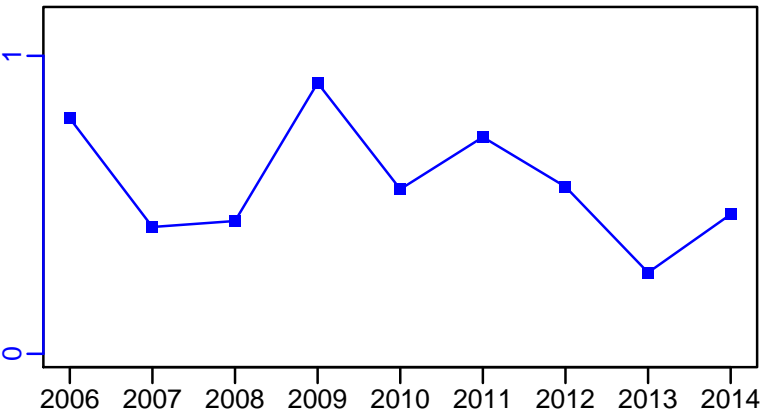
TN *



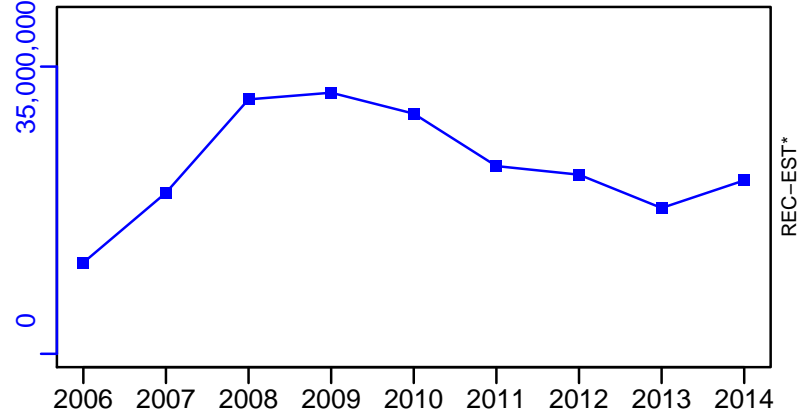
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

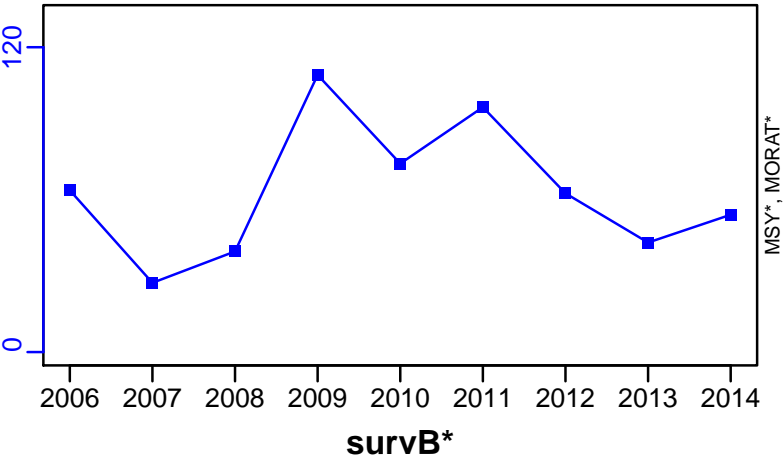


R-E00 (2006–2014–OSIO)



Giant red shrimp Sardinia [GRSHRIMPEDGSA11]

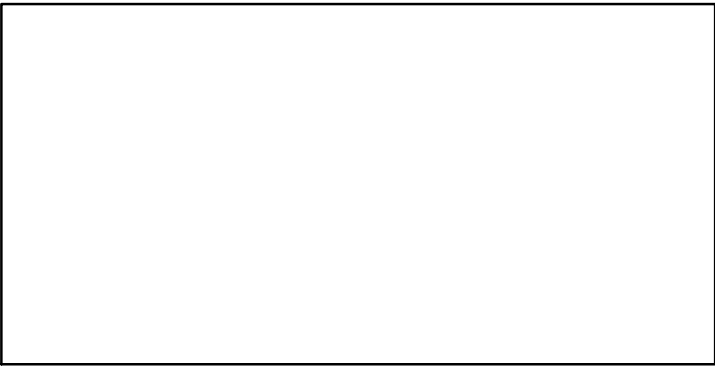
TC-MT, TL*, RecC* (2006–2014–OSIO)



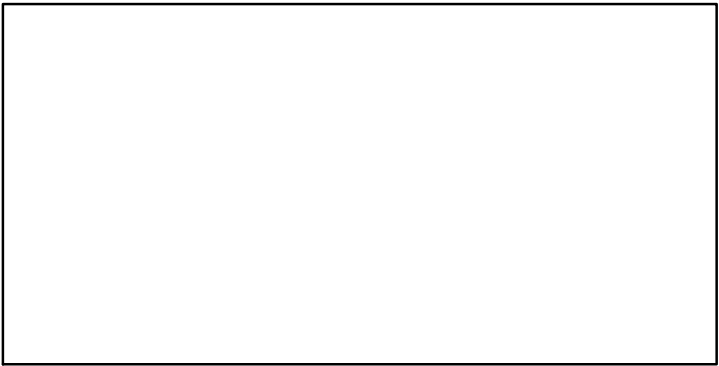
TAC*, Cpair*, Cadv*



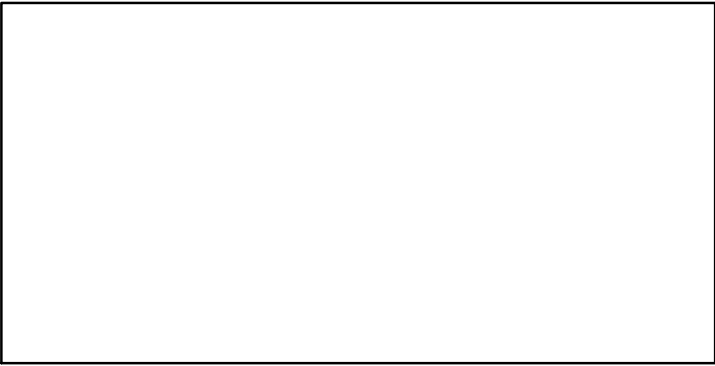
survB*



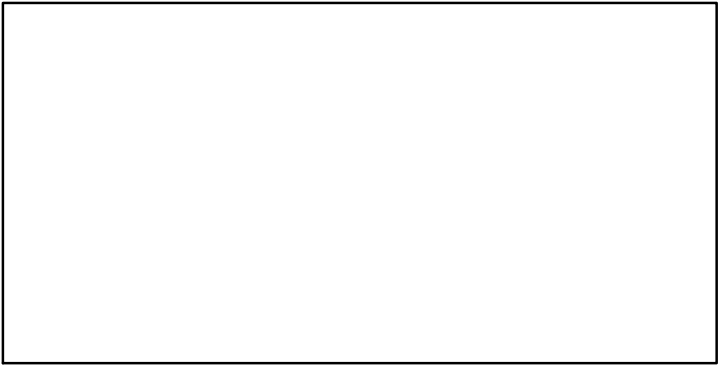
CPUE*



EFFORT*



CdivMSY*



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

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

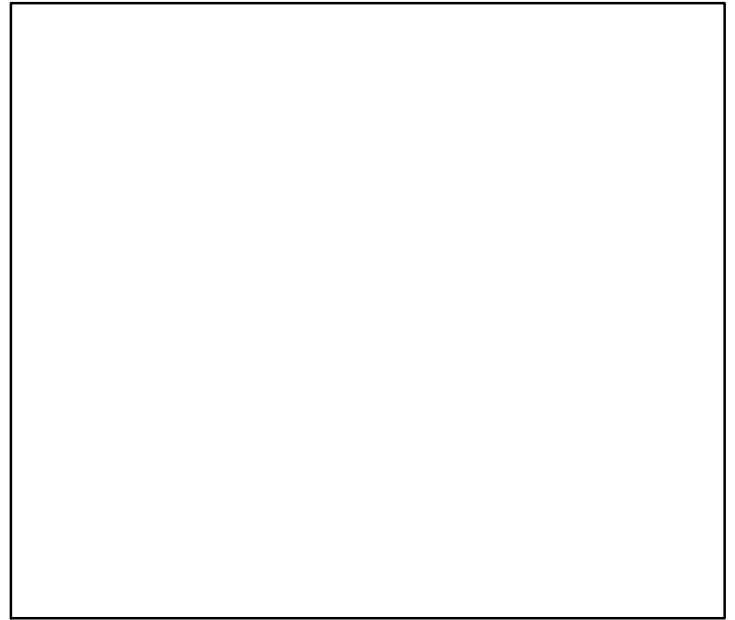
| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.3 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 1250 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 84,400,000 | - | - |
| F | F-1/yr | 2011 | 1.67 | - | - |
| ER | ER-calc-ratio | 2011 | 0.357 | - | - |
| TC | TC-MT | 2011 | 1590 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 5.567 | | |
| ER/ERmgt | - | - | - | | |

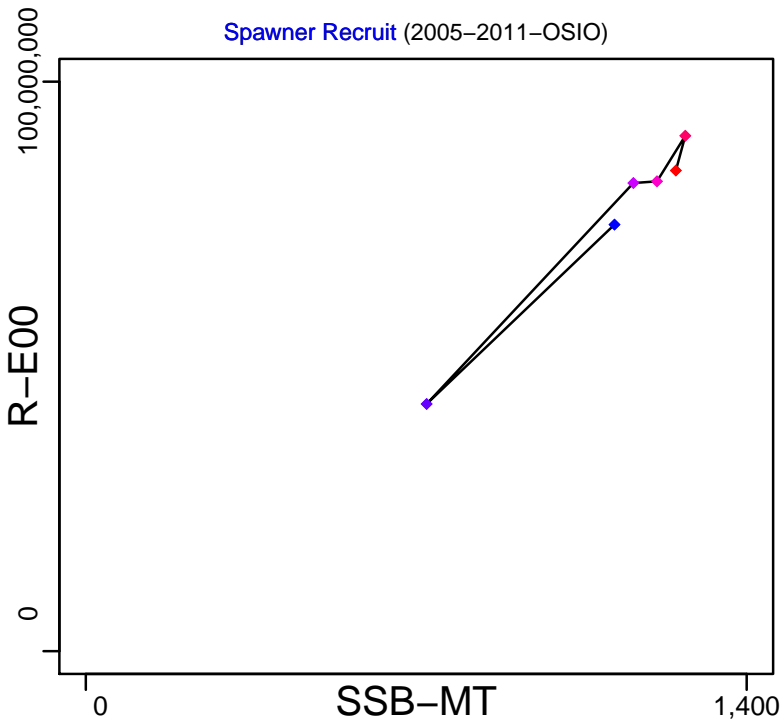
Kobe MSY*



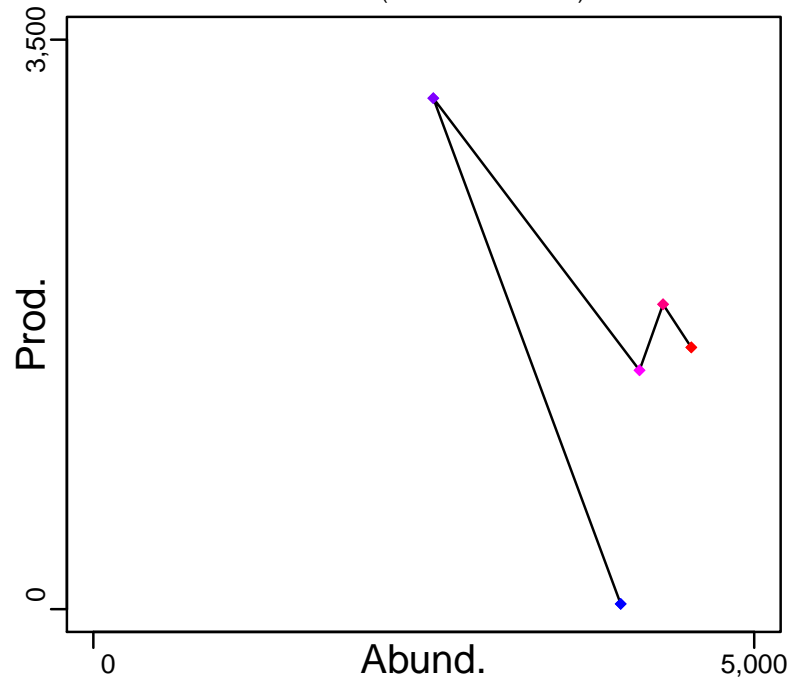
Kobe MGT*



Spawner Recruit (2005–2011–OSIO)



Production (2005–2011–OSIO)



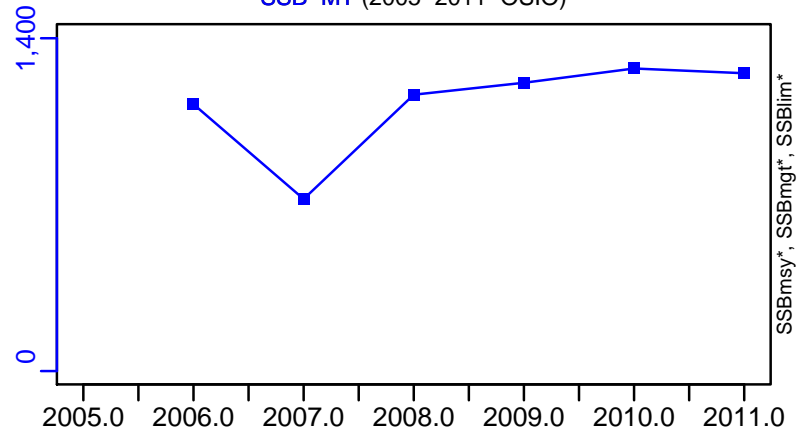
◆ Start Year ◆ End Year * No Data

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

TB*



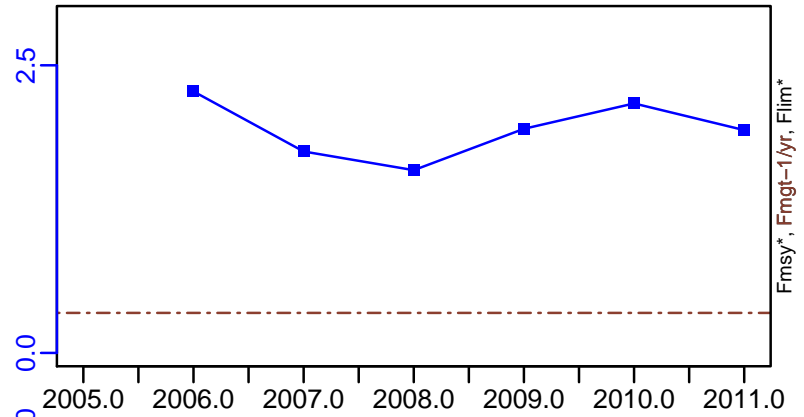
SSB-MT (2005–2011–OSIO)



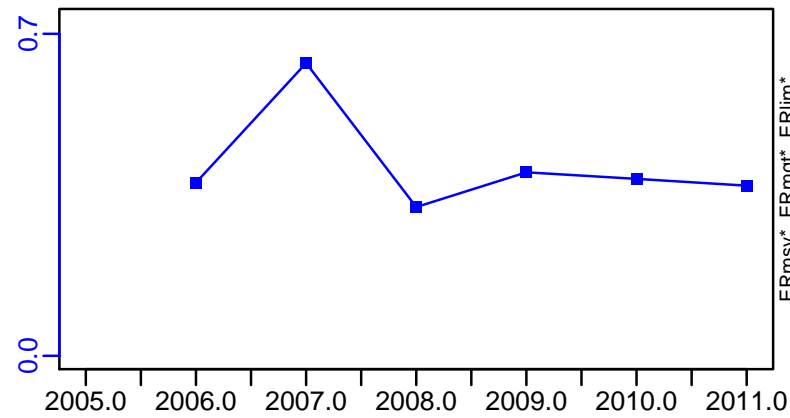
TN *



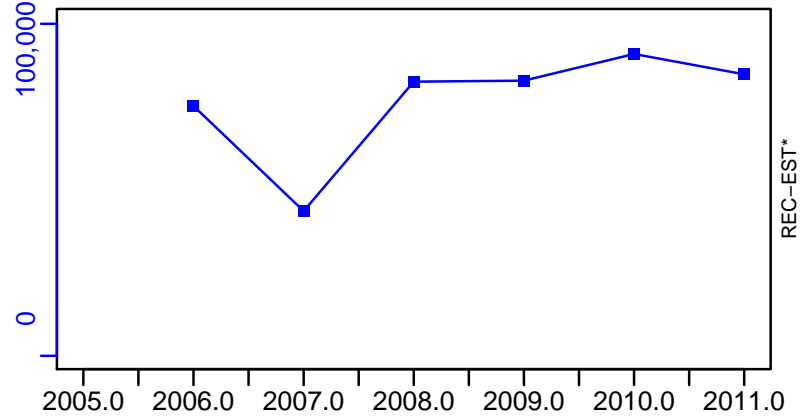
F-1/yr (2005–2011–OSIO)



ER-calc-ratio (2005–2011–OSIO)

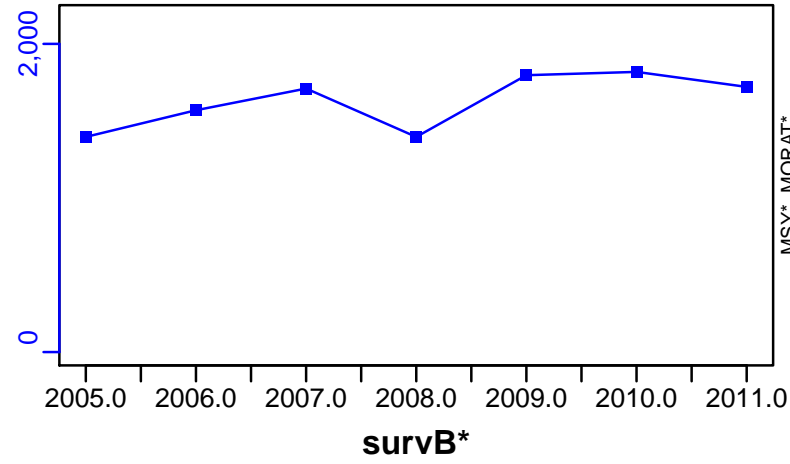


R-E00 (2005–2011–OSIO)



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

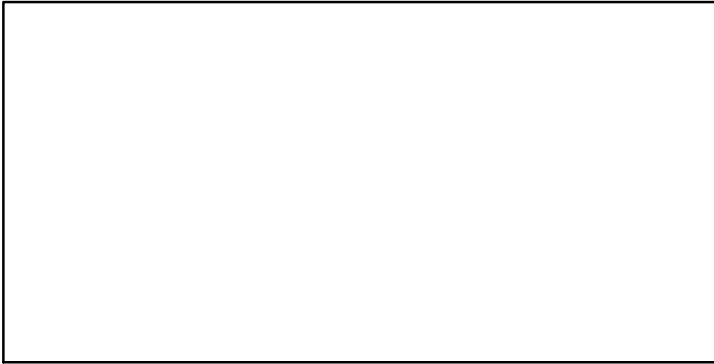
TC–MT, TL*, RecC* (2005–2011–OSIO)



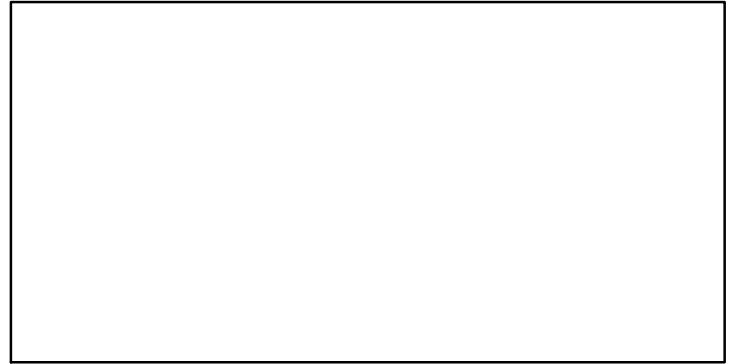
TAC*, Cpair*, Cadv*



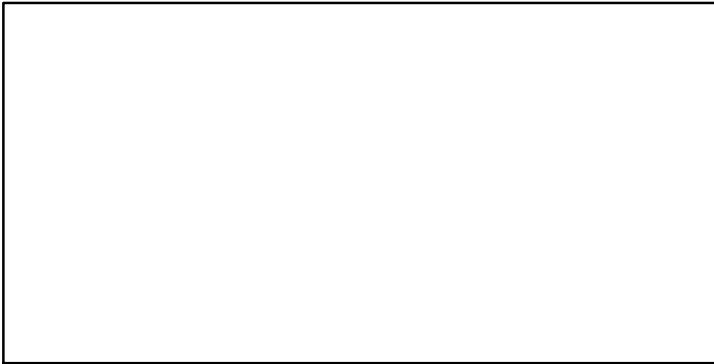
survB*



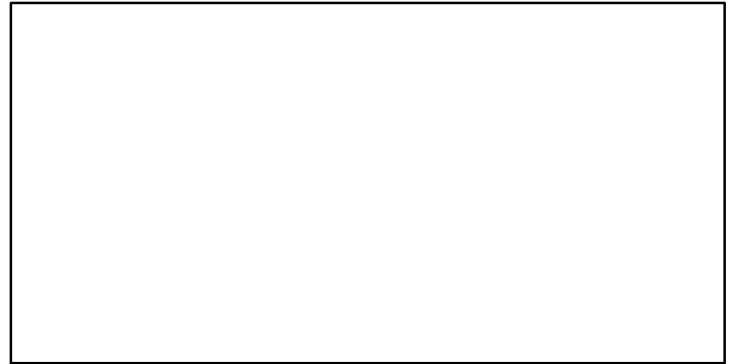
CPUE*



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]

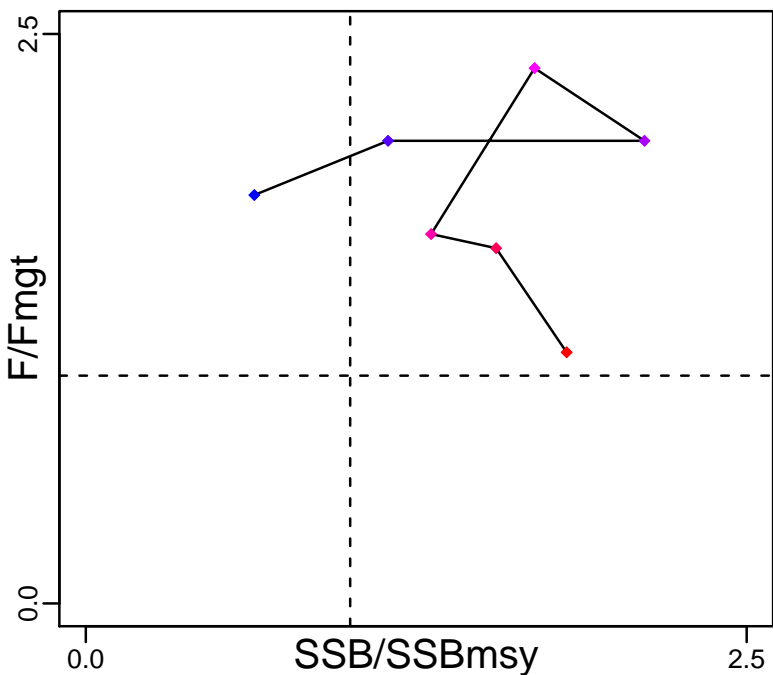
| Metadata | |
|-----------------------------|---|
| Scientific Name | Aristaeomorpha foliacea |
| Current Assess ID | STECF-GRSHRIMPEDGSA18-19-2008-2014-OSIO |
| Area | South Adriatic Sea and West Ionian Sea (GSA 18,19) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 289 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.837 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.42 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 860 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

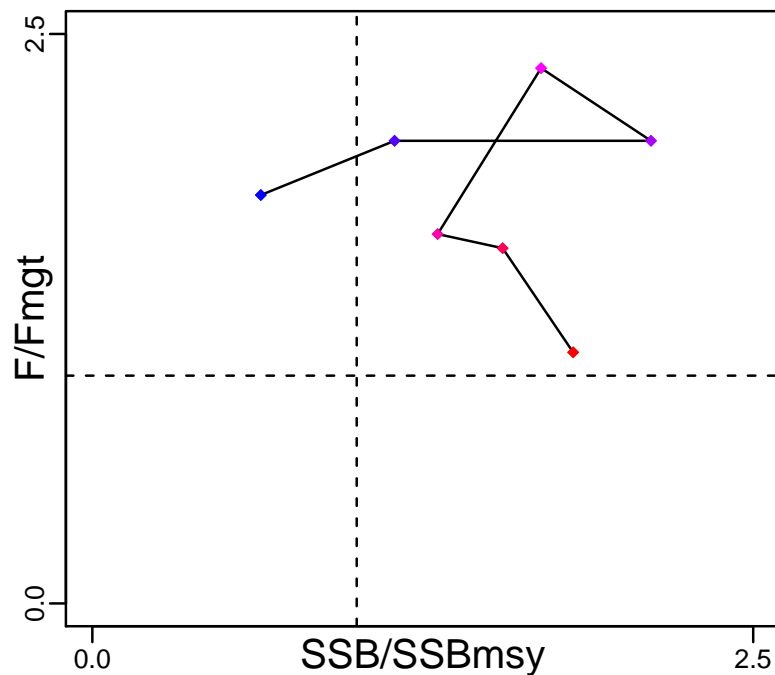
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 525 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 30,200,000 | - | - |
| F | F-1/yr | 2014 | 0.463 | - | - |
| ER | ER-calc-ratio | 2014 | 0.175 | - | - |
| TC | TC-MT | 2014 | 328 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.819 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.21 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.102 | | |
| ER/ERmgt | - | - | - | | |

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

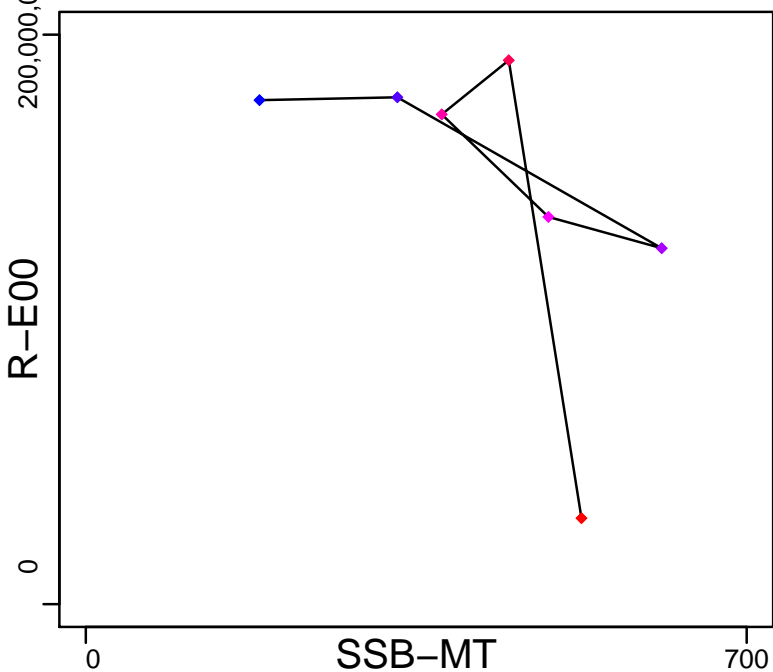
Kobe MSYpref (2008-2014-OSIO)



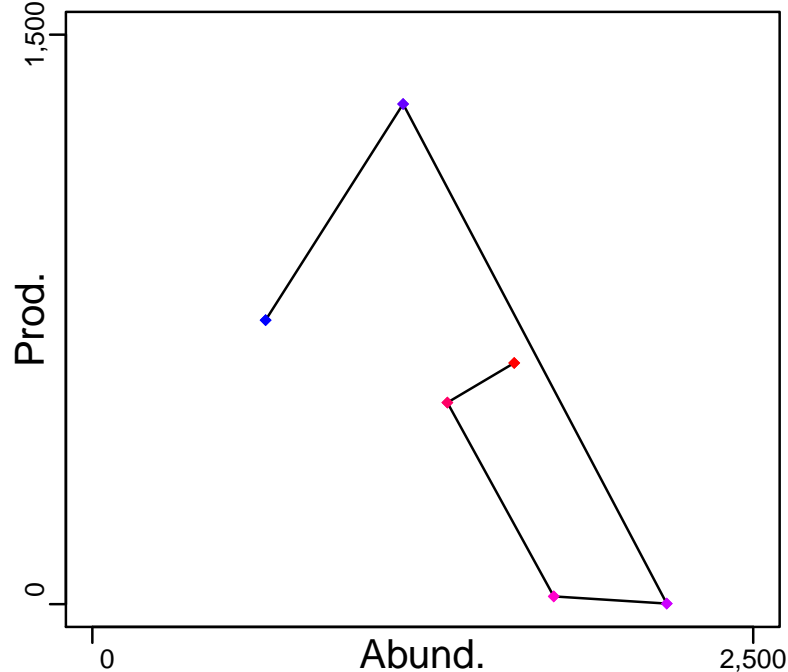
Kobe MGTpref (2008-2014-OSIO)



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*



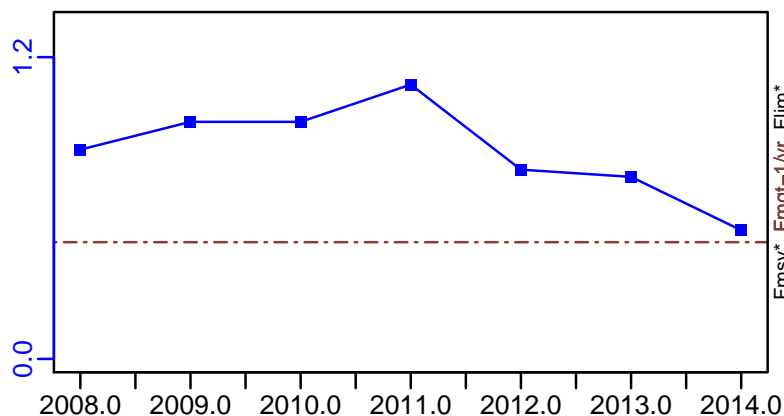
SSB-MT (2008-2014-OSIO)



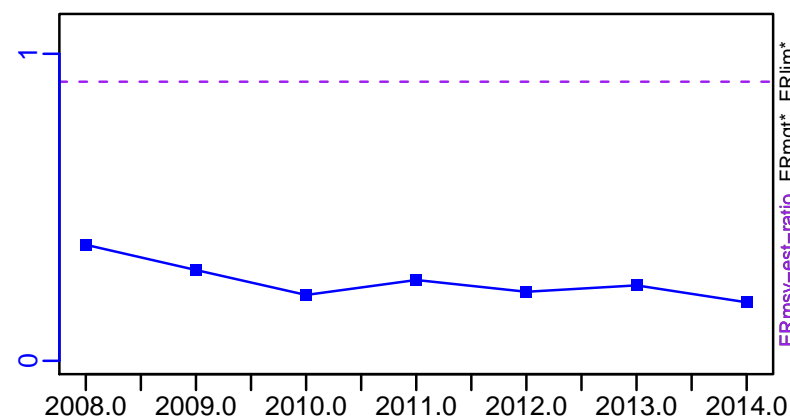
TN *



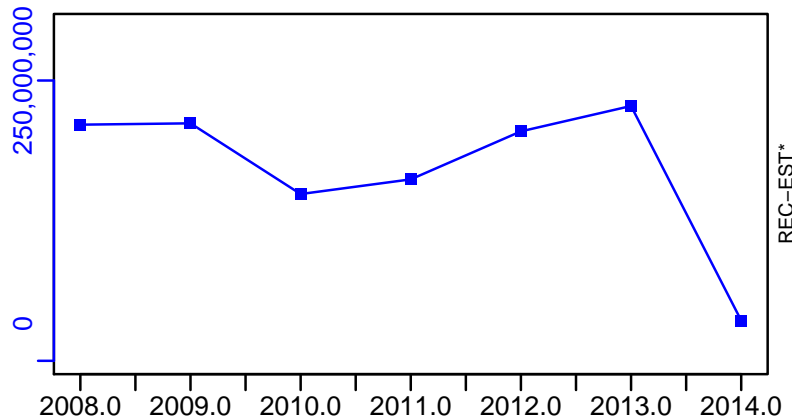
F-1/yr (2008-2014-OSIO)



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



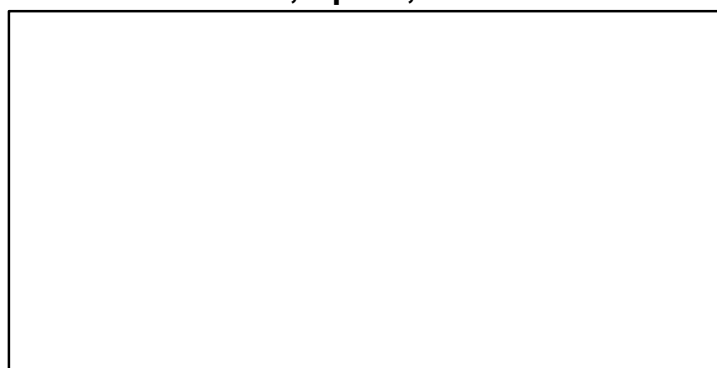
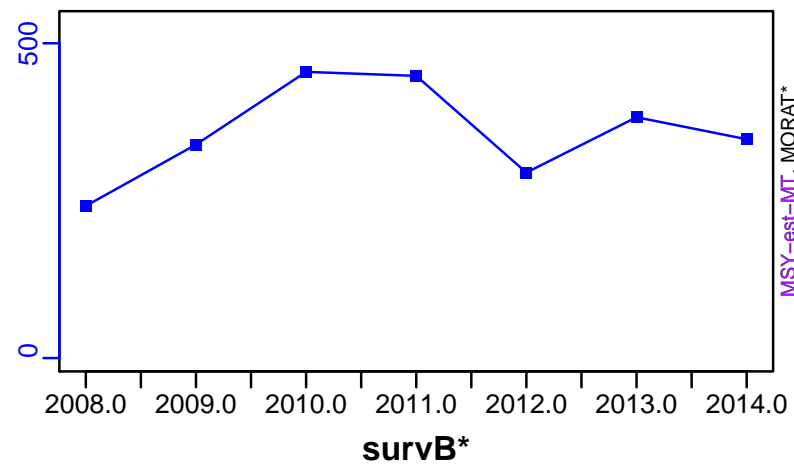
R-E00 (2008-2014-OSIO)



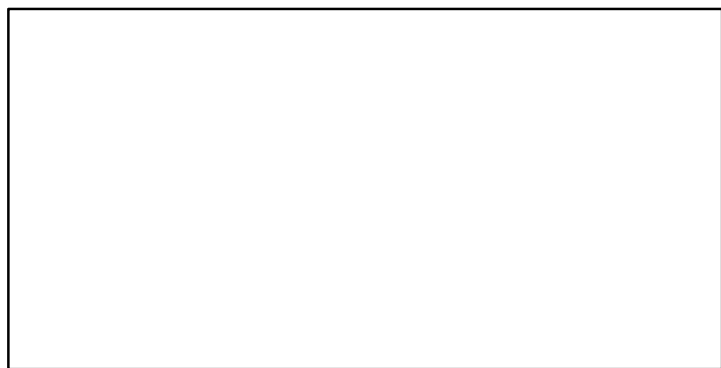
Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19) [GRSHRIMPEDGSA18-19]

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

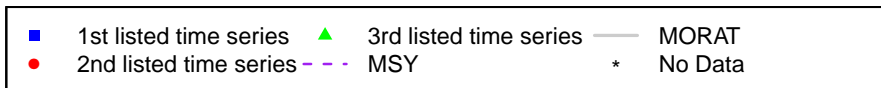
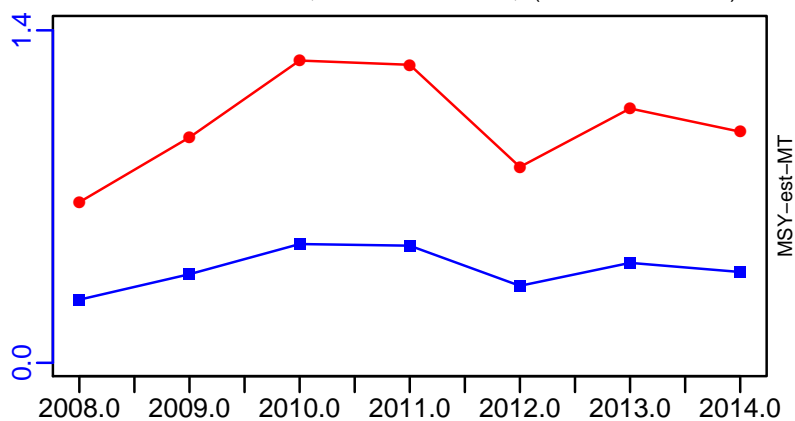
TAC*, Cpair*, Cadv*



EFFORT*



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



Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

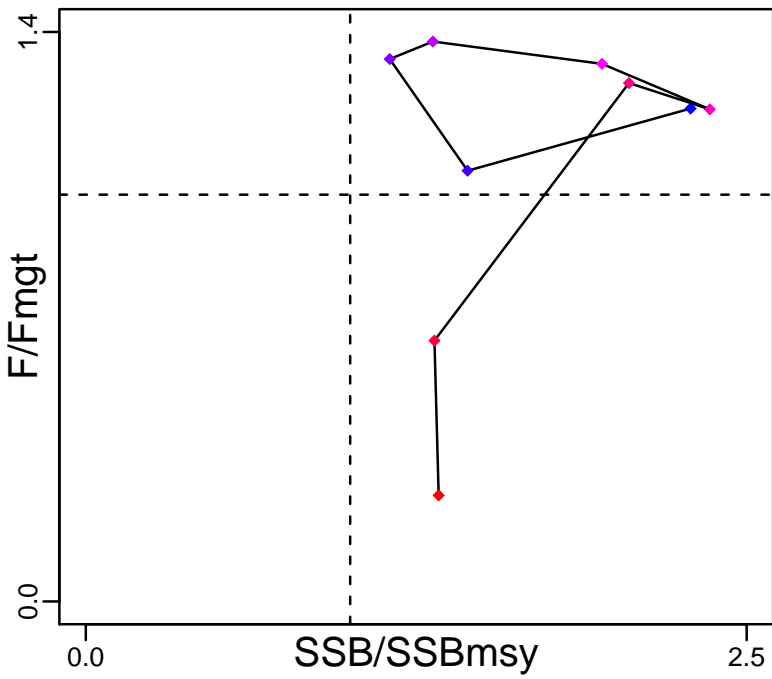
| Metadata | |
|-----------------------------|---|
| Scientific Name | Aristaeomorpha foliacea |
| Current Assess ID | STECF-GRSHRIMPEDGSA9-2006-2014-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 69 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.391 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.51 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 66 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 80 |
| Flim | - | - | - |
| ERlim | - | - | - |

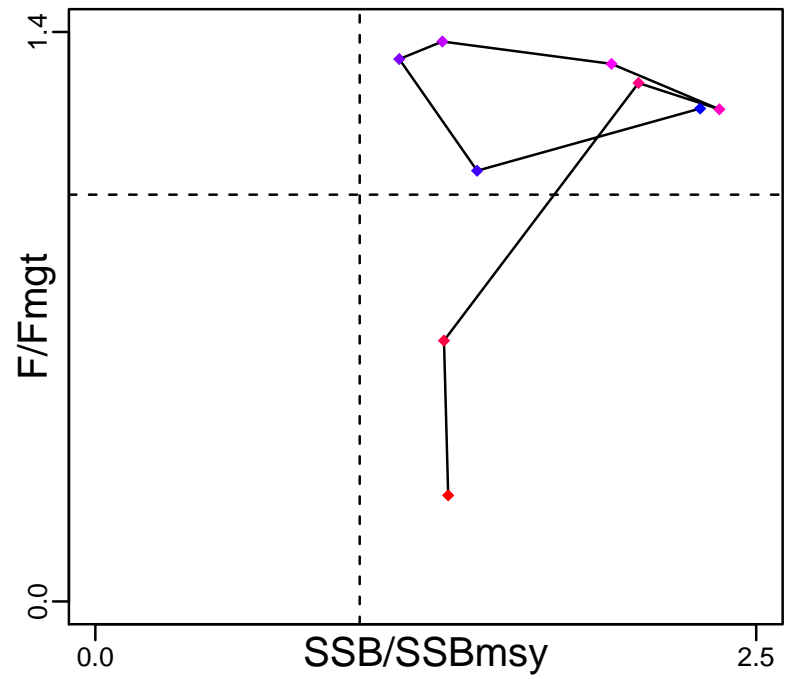
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 92 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 10,600,000 | - | - |
| F | F-1/yr | 2014 | 0.133 | - | - |
| ER | ER-calc-ratio | 2014 | 0.074 | - | - |
| TC | TC-MT | 2014 | 17 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.335 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.19 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 0.261 | | |
| ER/ERmgt | - | - | - | | |

Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

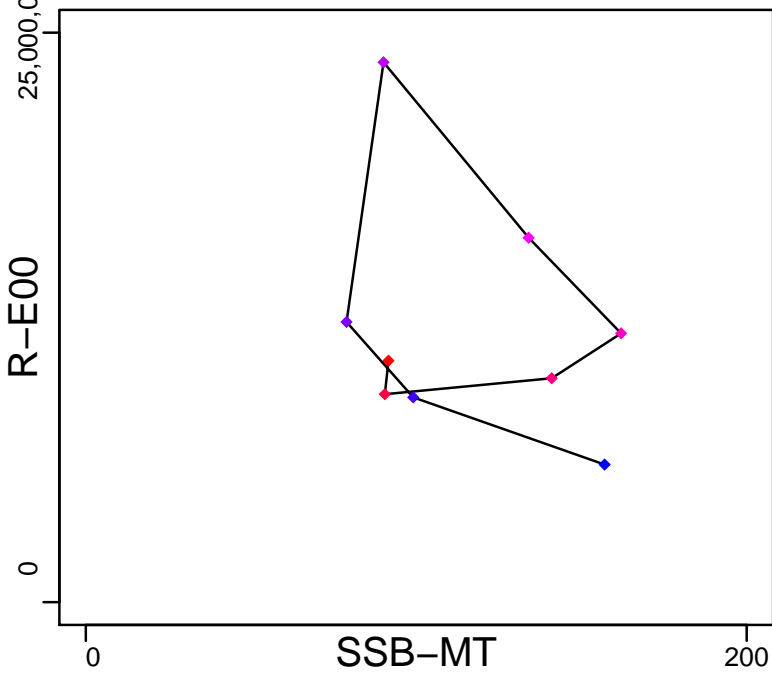
Kobe MSYpref (2006–2014–OSIO)



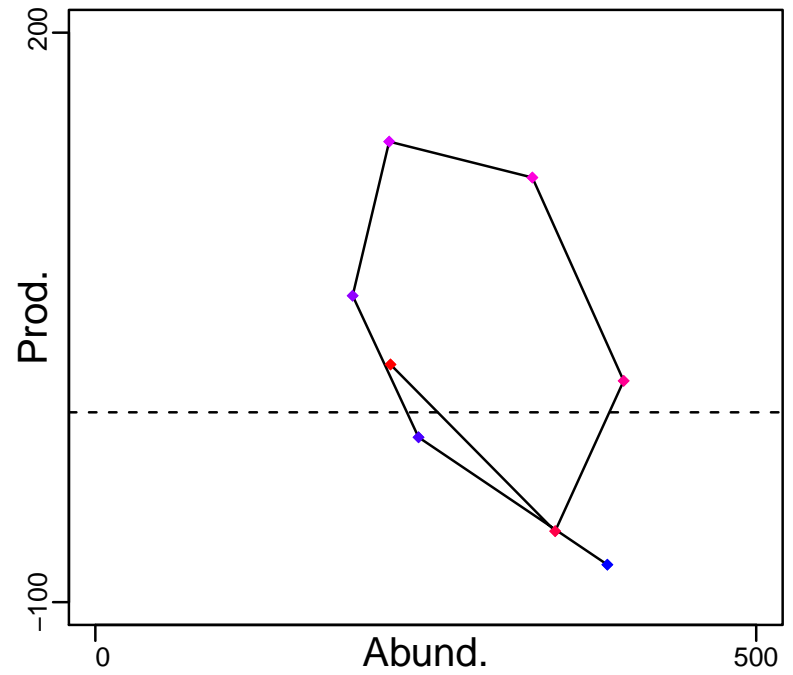
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



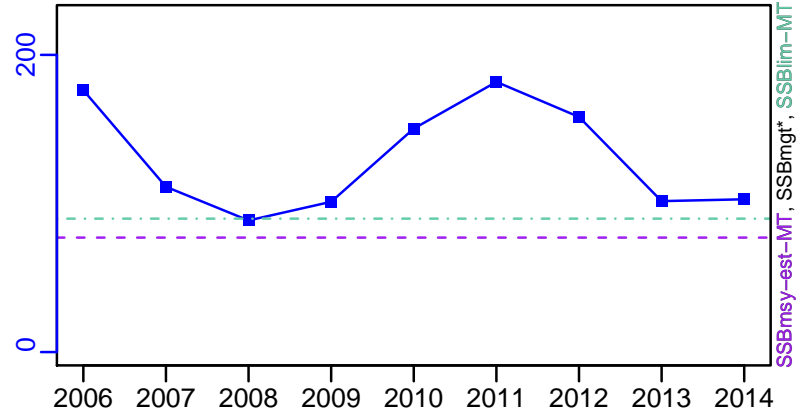
◆ Start Year ◆ End Year * No Data

Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

TB*



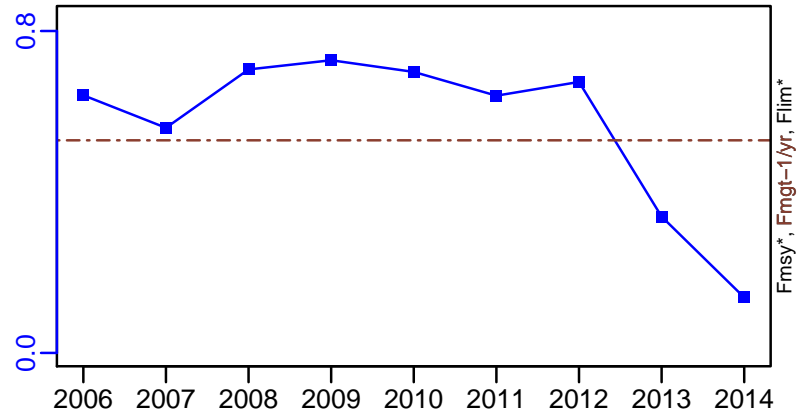
SSB-MT (2006–2014–OSIO)



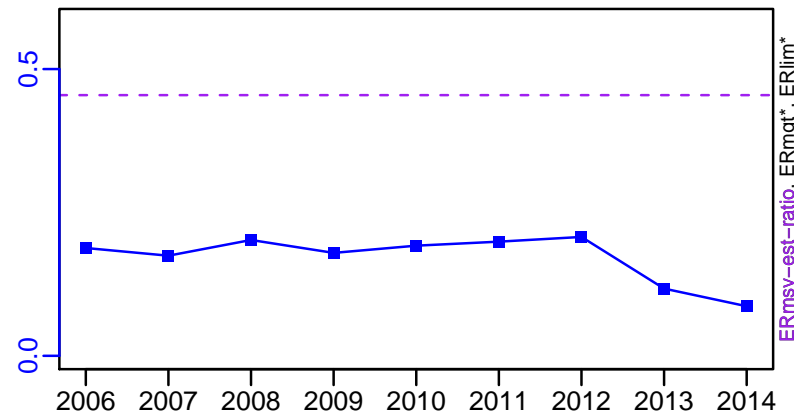
TN *



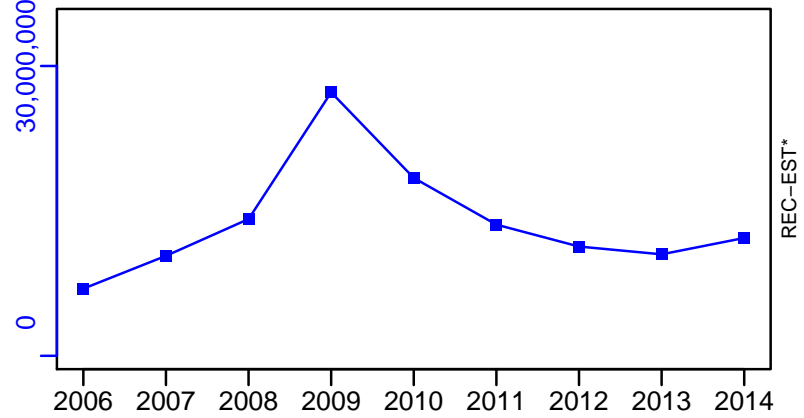
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)



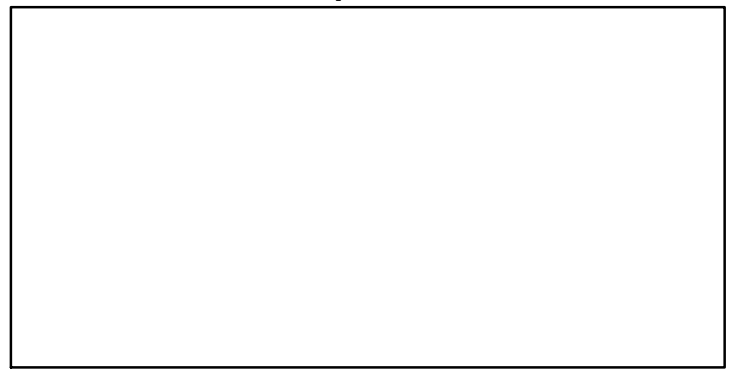
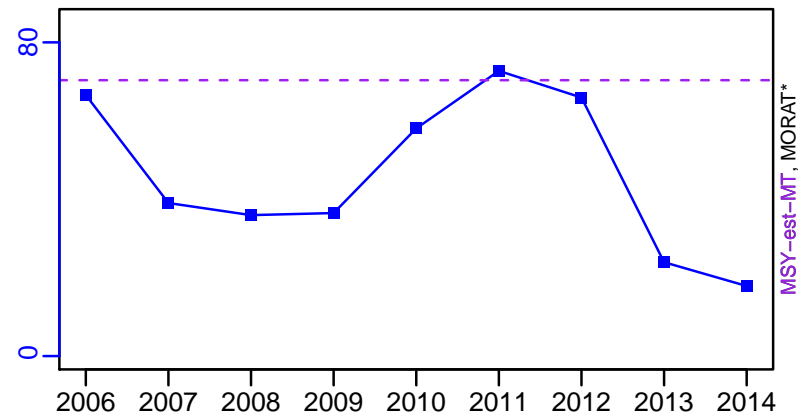
R-E00 (2006–2014–OSIO)



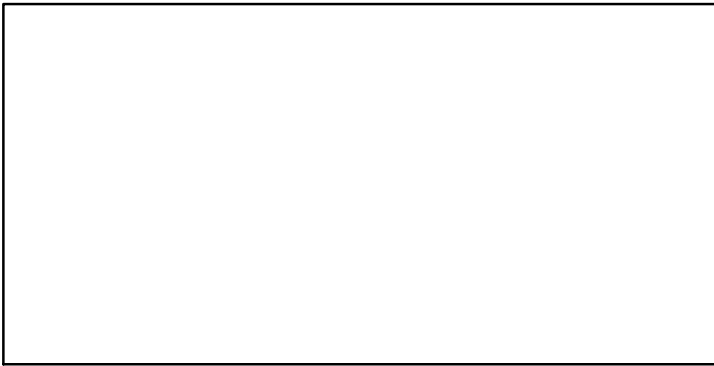
Giant red shrimp Ligurian and North Tyrrhenian Sea [GRSHRIMPEDGSA9]

TC-MT, TL*, RecC* (2006–2014–OSIO)

TAC*, Cpair*, Cadv*



survB*



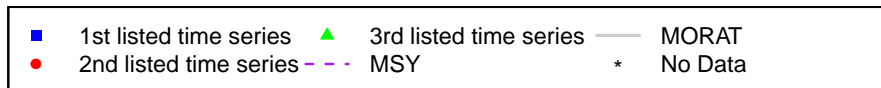
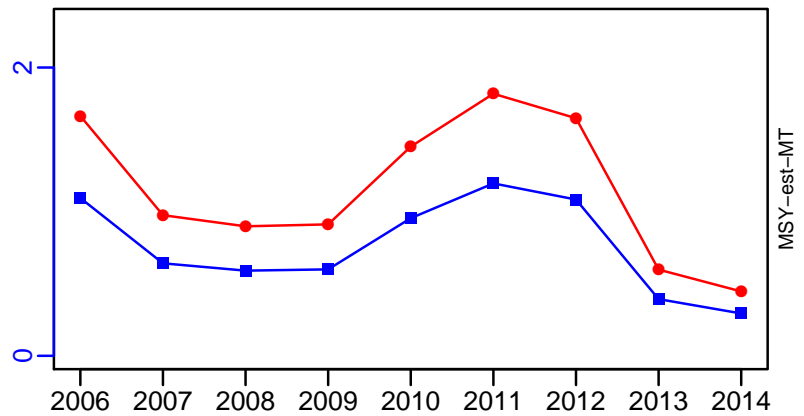
CPUE*



EFFORT*



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



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

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

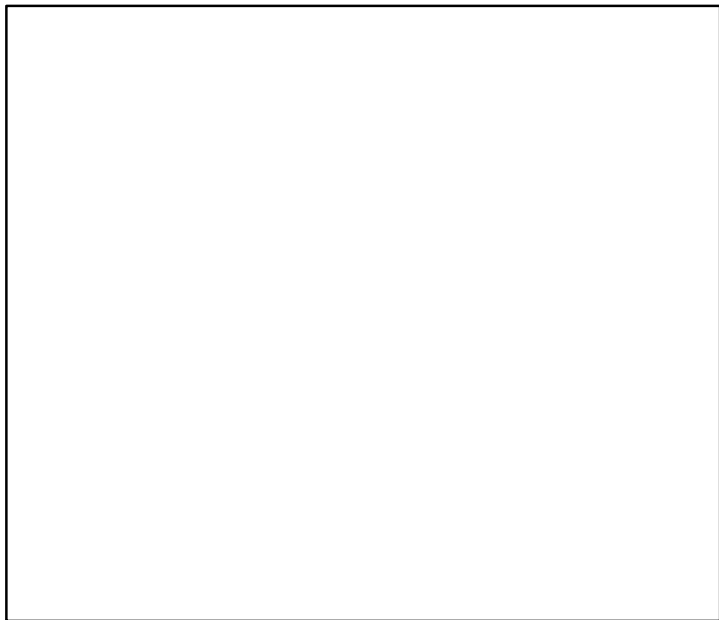
Kobe MSY*



Kobe MGT*



Spawner Recruit*



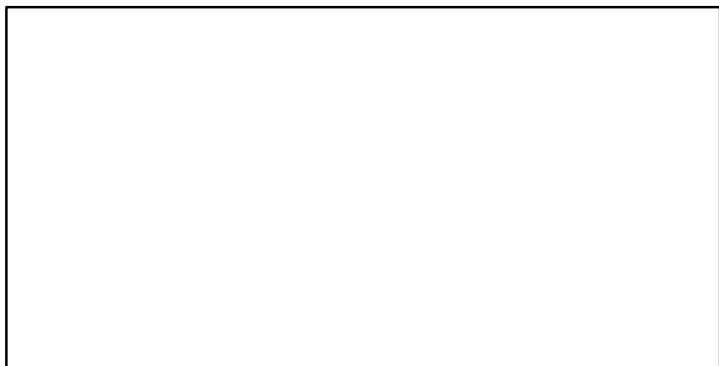
Production*



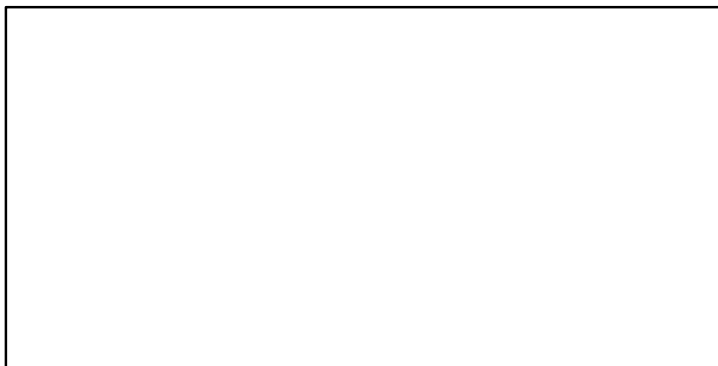
◆ Start Year ◆ End Year * No Data

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

TB*



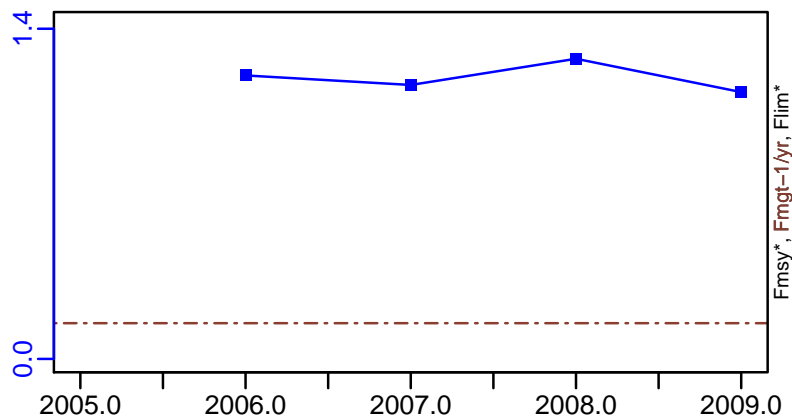
SSB*



TN *



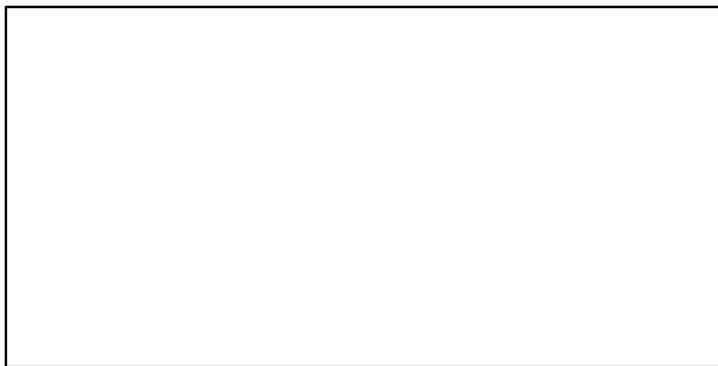
F-1/yr (2005-2009-OSIO)



ER*

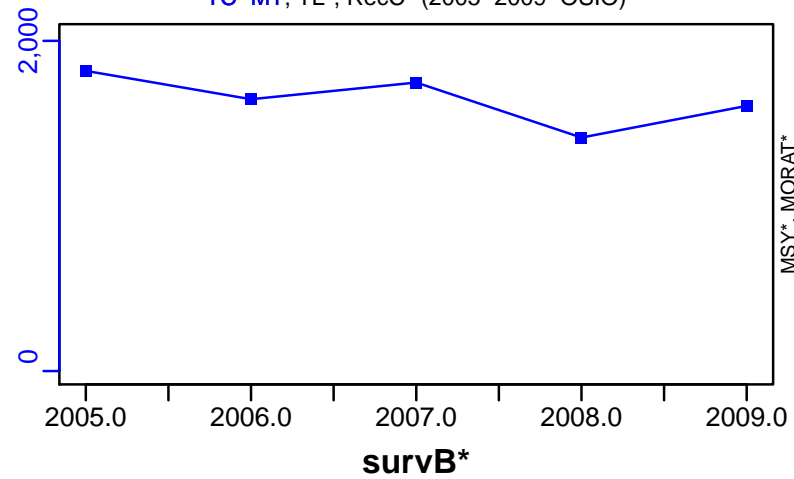


Recruits*

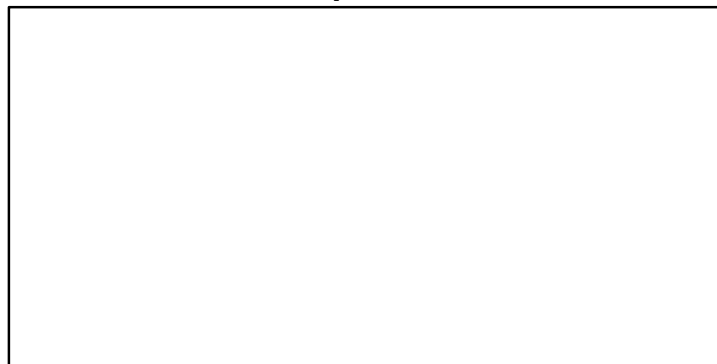


Hake Malta Island and South of Sicily (GSA 15, 16) [HAKEMEDGSA15-16]

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



TAC*, Cpair*, Cadv*



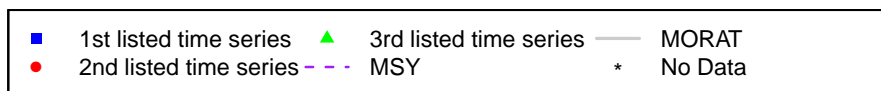
CPUE*



EFFORT*



CdivMSY*



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

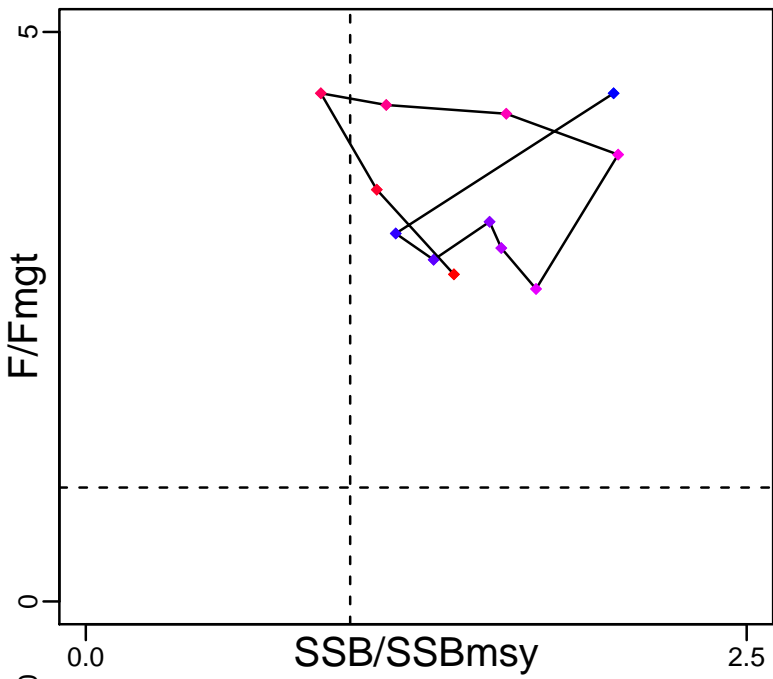
| Metadata | |
|-----------------------------|---|
| Scientific Name | Merluccius merluccius |
| Current Assess ID | STECF-HAKEMEDGSA1-7-2003-2014-OSIO |
| Area | Geographical Sub-Areas 1-7 |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 5860 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.606 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.39 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 7563 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 5186 |
| Flim | - | - | - |
| ERlim | - | - | - |

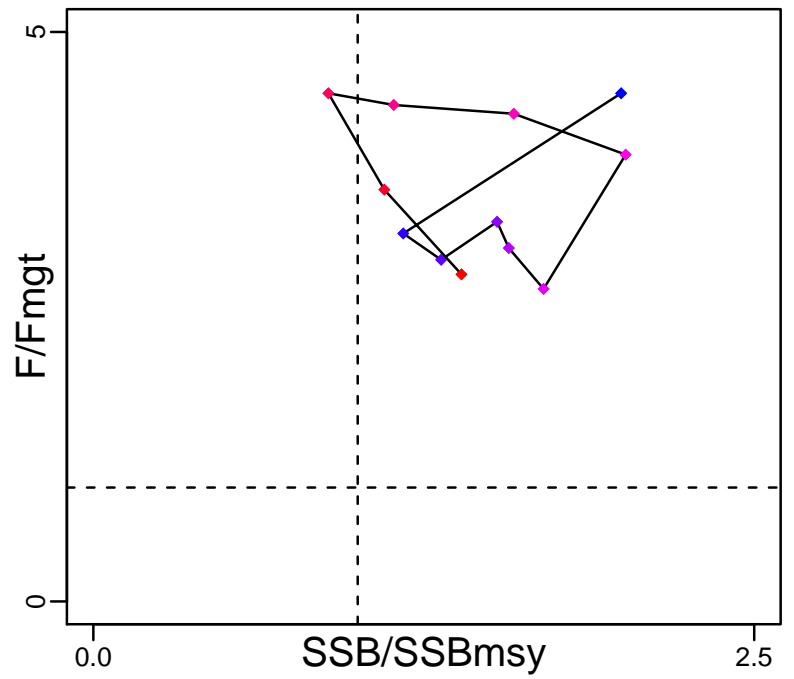
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 8160 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 4.01×10^8 | - | - |
| F | F-1/yr | 2014 | 1.12 | - | - |
| ER | ER-calc-ratio | 2014 | 0.272 | - | - |
| TC | TC-MT | 2014 | 4720 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.393 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.448 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 2.872 | | |
| ER/ERmgt | - | - | - | | |

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

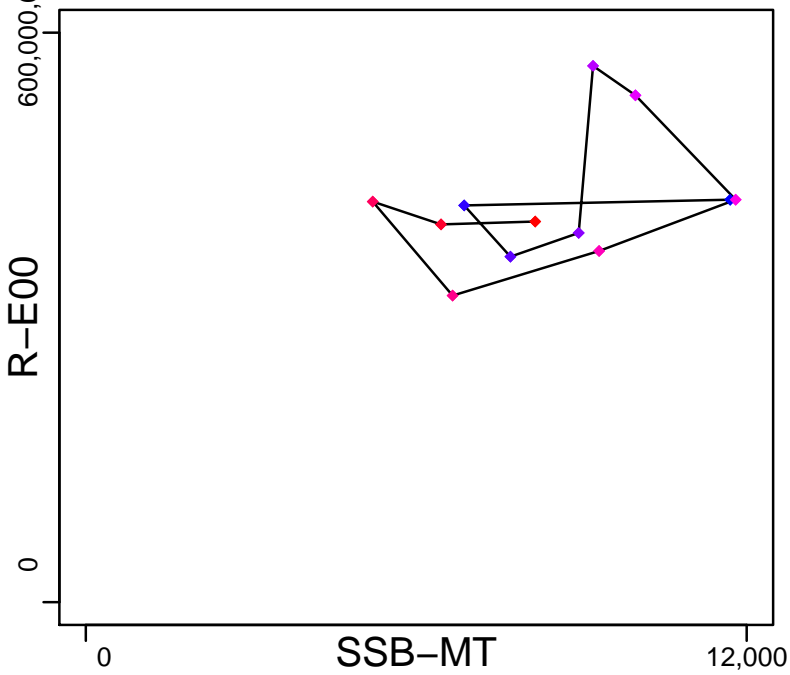
Kobe MSYpref (2003–2014–OSIO)



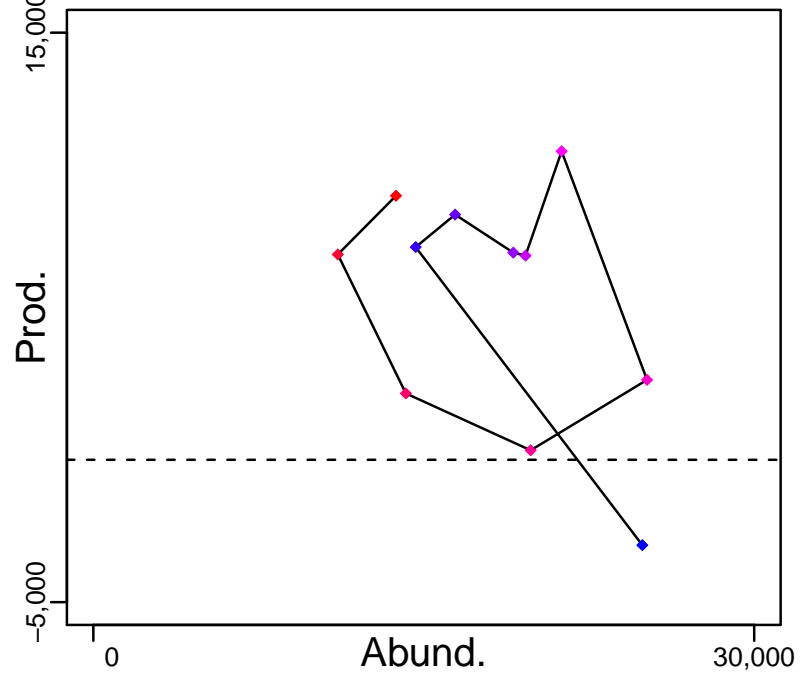
Kobe MGTpref (2003–2014–OSIO)



Spawner Recruit (2003–2014–OSIO)



Production (2003–2014–OSIO)



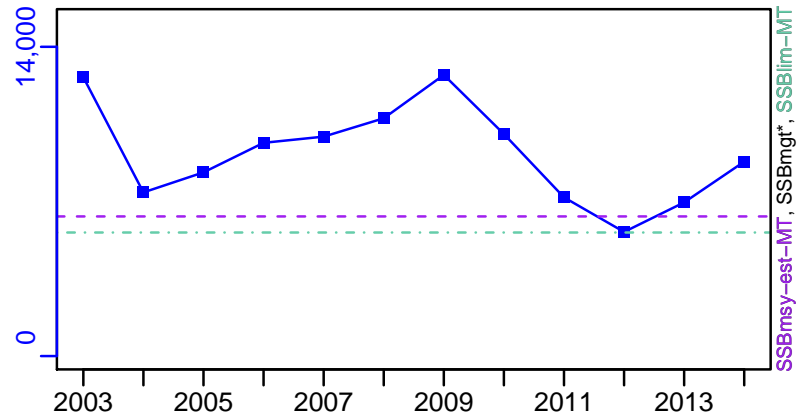
◆ Start Year ◆ End Year * No Data

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

TB*



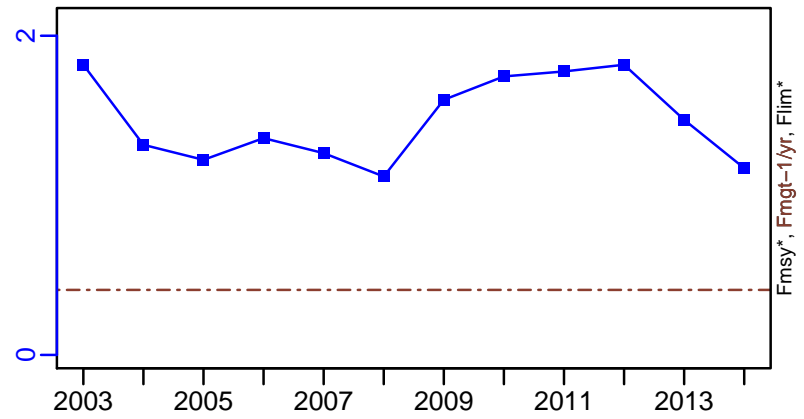
SSB-MT (2003–2014–OSIO)



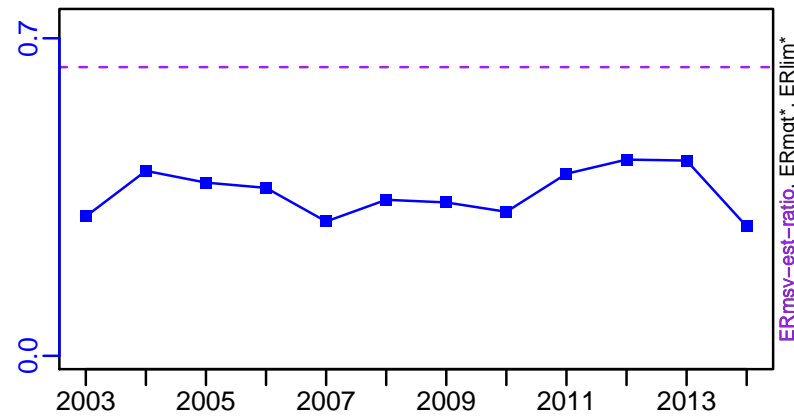
TN *



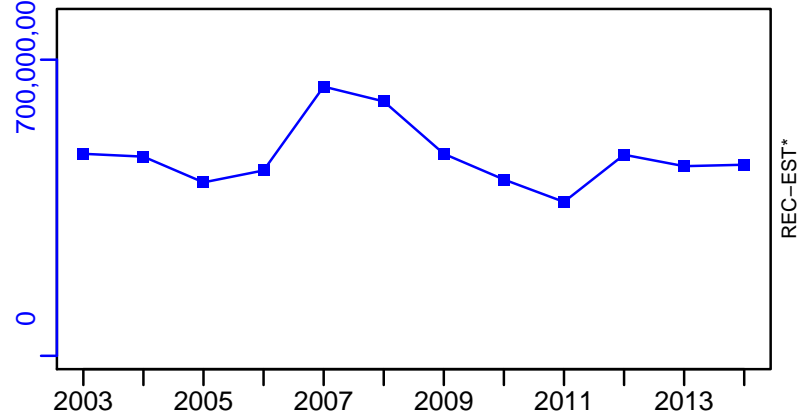
F-1/yr (2003–2014–OSIO)



ER-calc-ratio (2003–2014–OSIO)

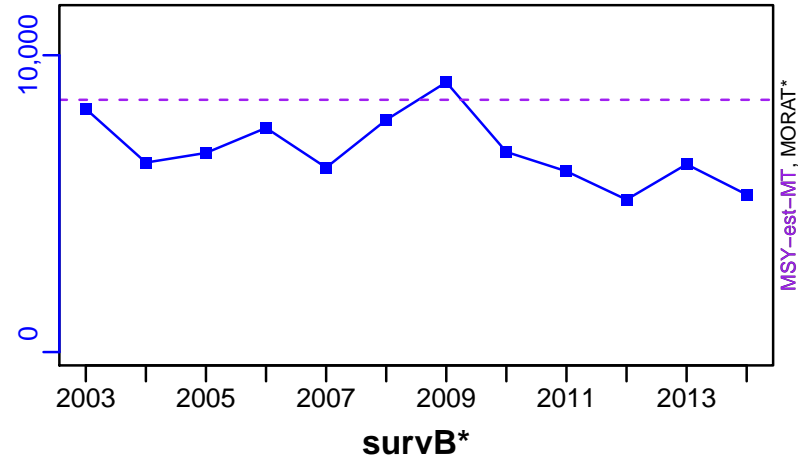


R-E00 (2003–2014–OSIO)



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

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



TAC*, Cpair*, Cadv*



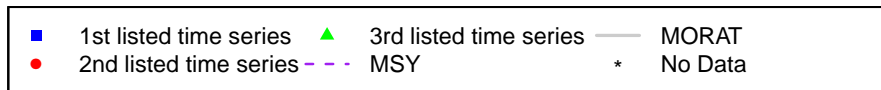
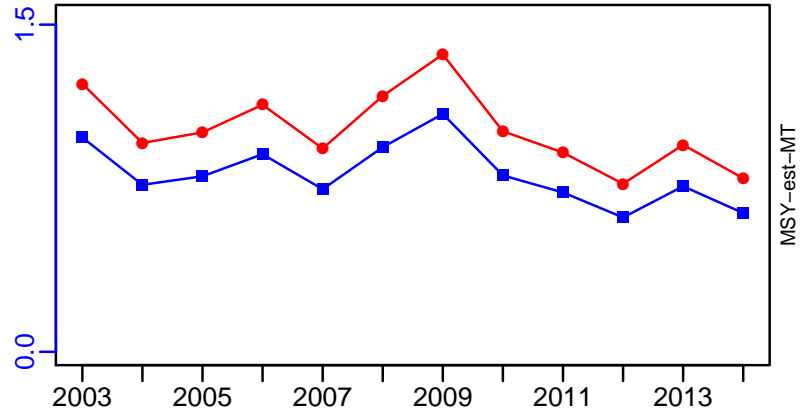
CPUE*



EFFORT*



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

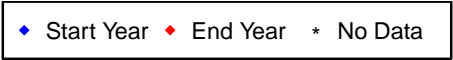
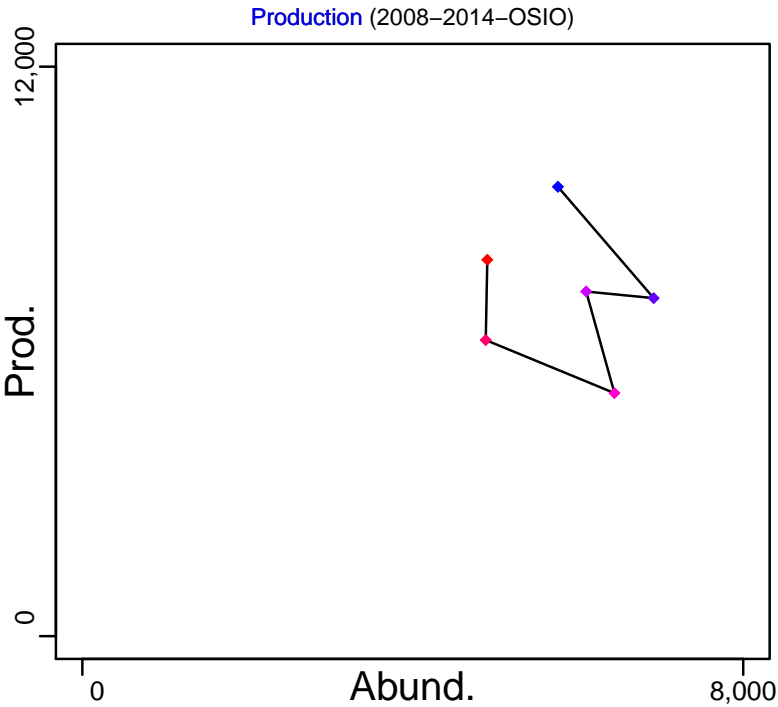
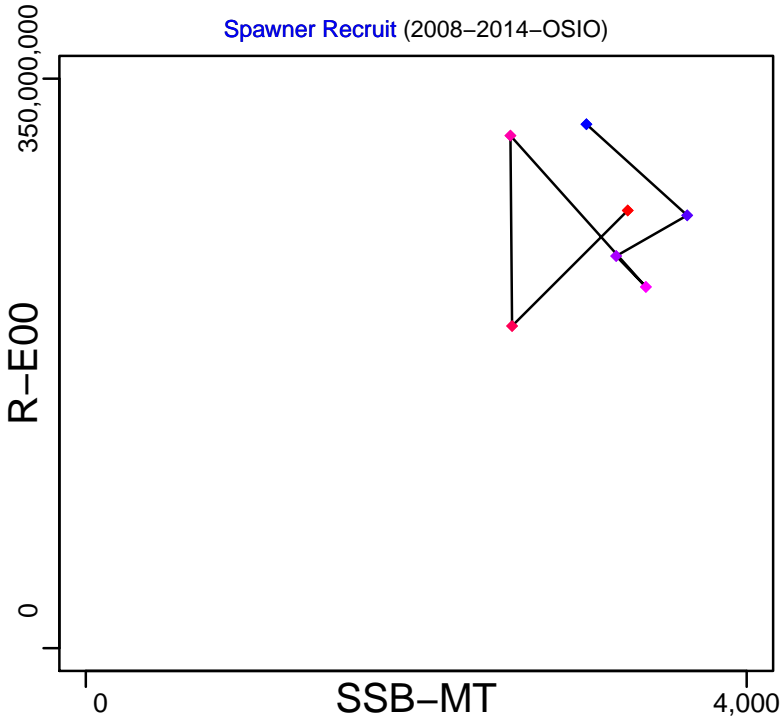
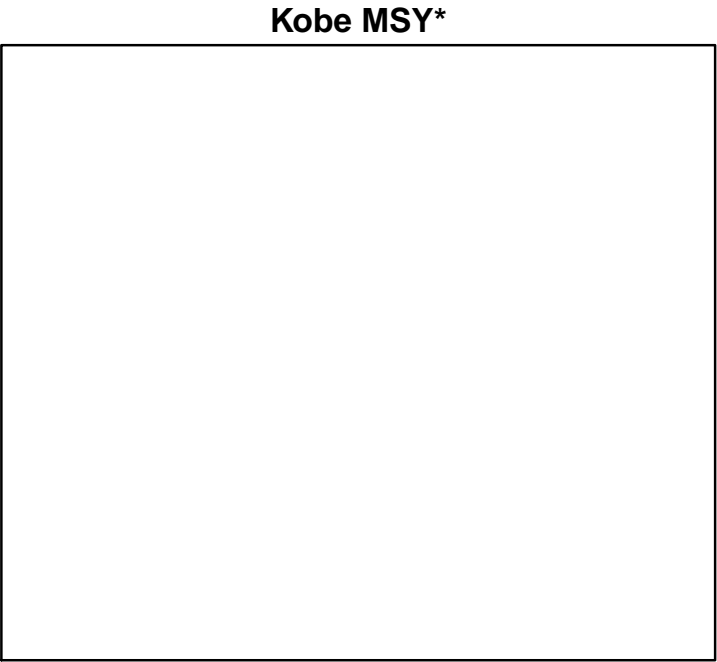


Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Merluccius merluccius |
| Current Assess ID | STECF-HAKEMEDGSA17-18-2008-2014-OSIO |
| Area | Adriatic Sea (GSA 17,18) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2014 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.16 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 3280 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 2.69×10^8 | - | - |
| F | F-1/yr | 2014 | 0.891 | - | - |
| ER | ER-calc-ratio | 2014 | 0.857 | - | - |
| TC | TC-MT | 2014 | 5340 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 5.569 | | |
| ER/ERmgt | - | - | - | | |

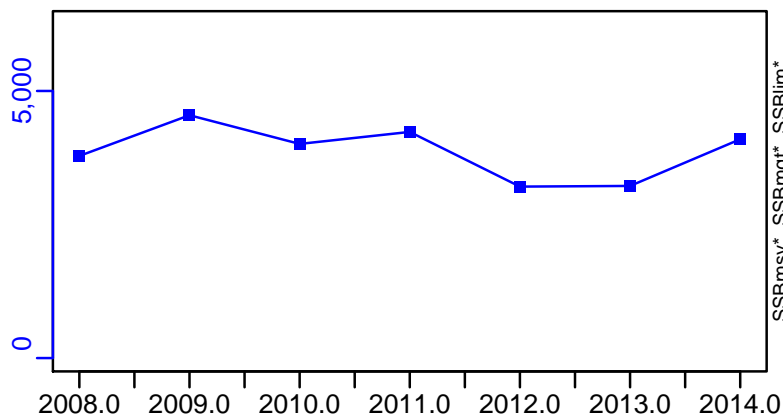


Hake Adriatic Sea (GSA 17,18) [HAKEMEDGSA17-18]

TB*



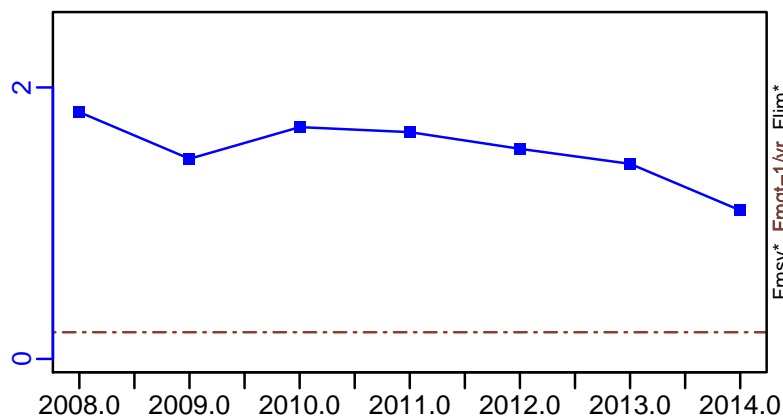
SSB-MT (2008-2014-OSIO)



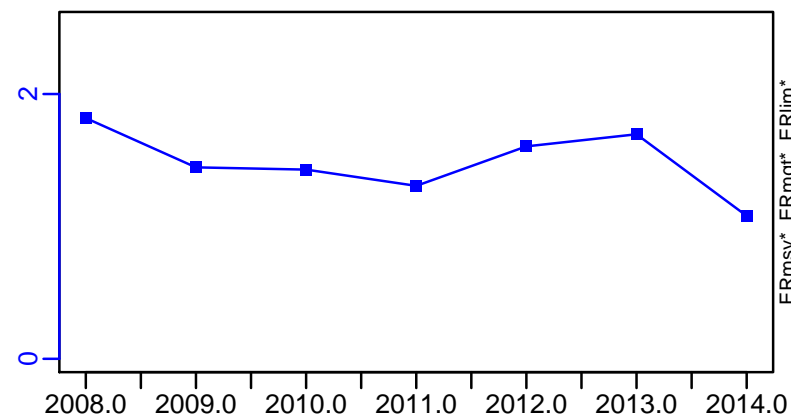
TN *



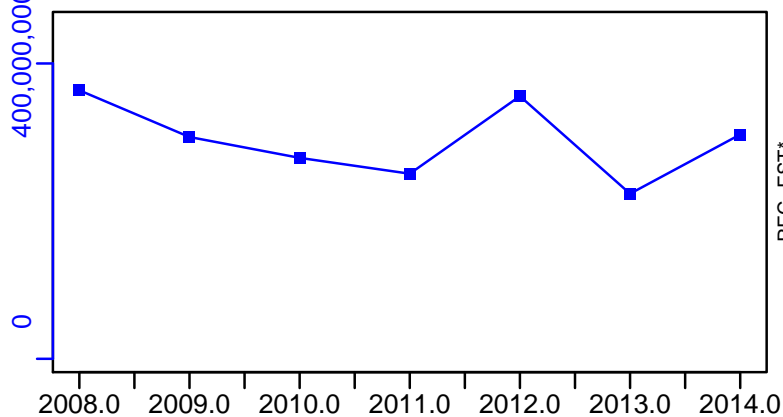
F-1/yr (2008-2014-OSIO)



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

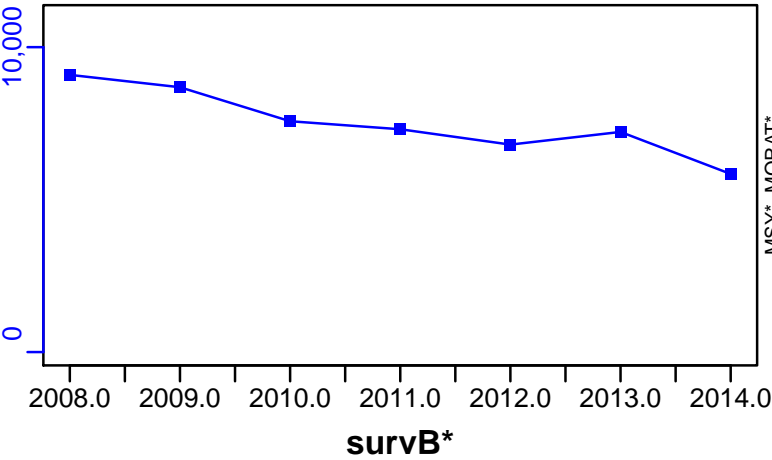


R-E00 (2008-2014-OSIO)



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

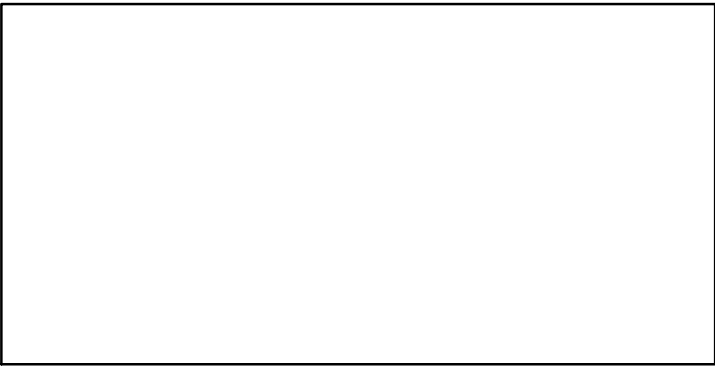
TC-MT, TL*, RecC* (2008-2014-OSIO)



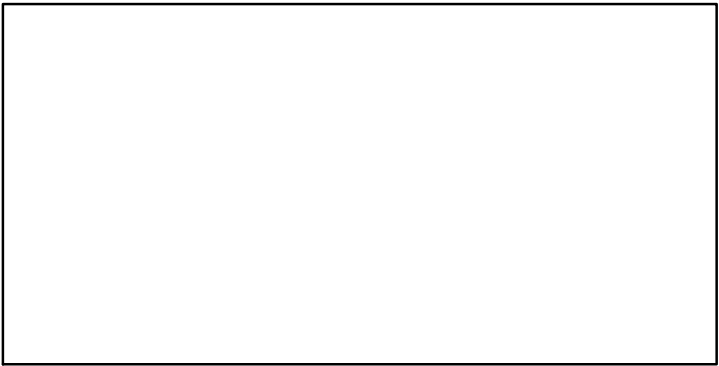
TAC*, Cpair*, Cadv*



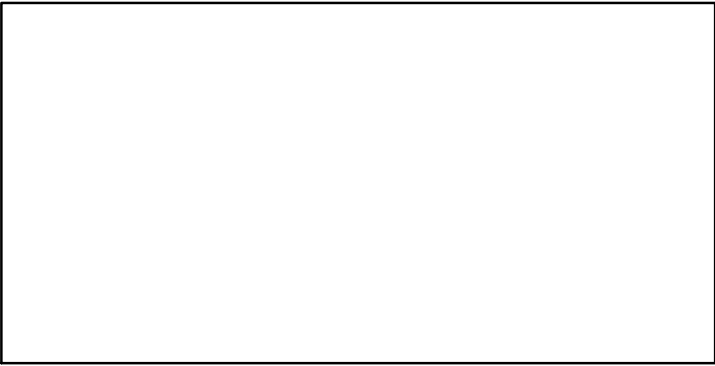
survB*



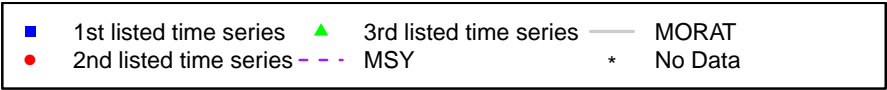
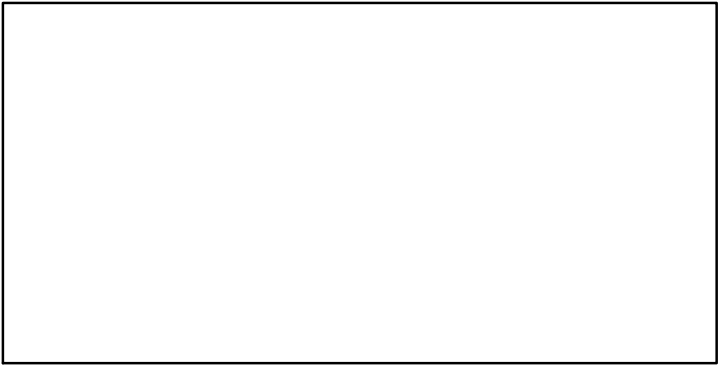
CPUE*



EFFORT*



CdivMSY*



Hake Western Ionian Sea [HAKEMEDGSA19]

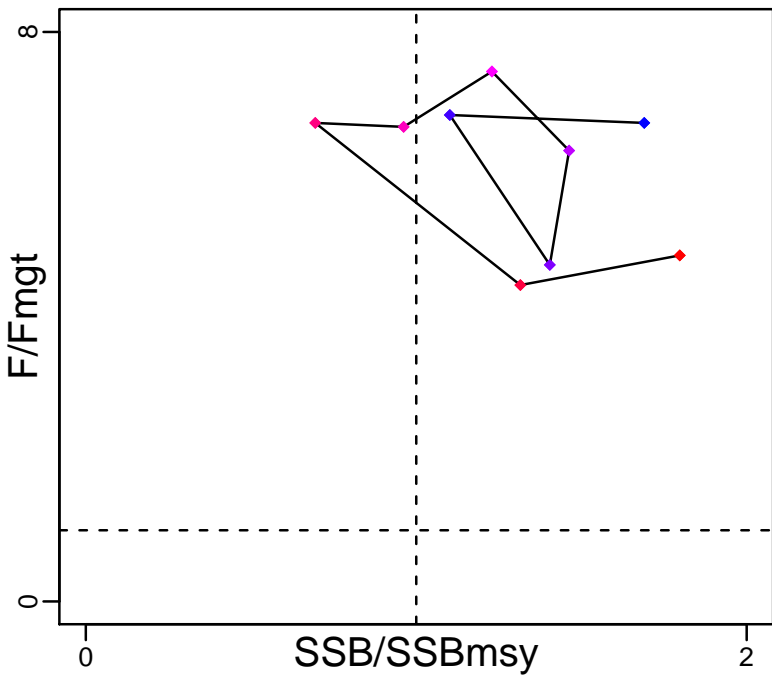
| Metadata | |
|-----------------------------|---|
| Scientific Name | Merluccius merluccius |
| Current Assess ID | STECF-HAKEMEDGSA19-2006-2014-OSIO |
| Area | Western Ionian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor |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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 651 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.784 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.18 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 1093 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

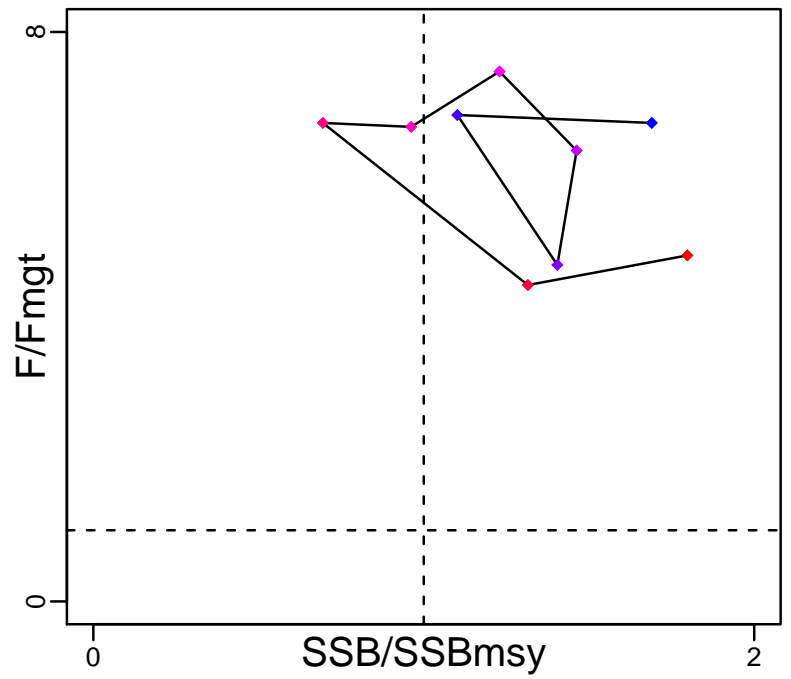
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 1170 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 23,900,000 | - | - |
| F | F-1/yr | 2014 | 0.875 | - | - |
| ER | ER-calc-ratio | 2014 | 0.303 | - | - |
| TC | TC-MT | 2014 | 759 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.798 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.386 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 4.861 | | |
| ER/ERmgt | - | - | - | | |

Hake Western Ionian Sea [HAKEMEDGSA19]

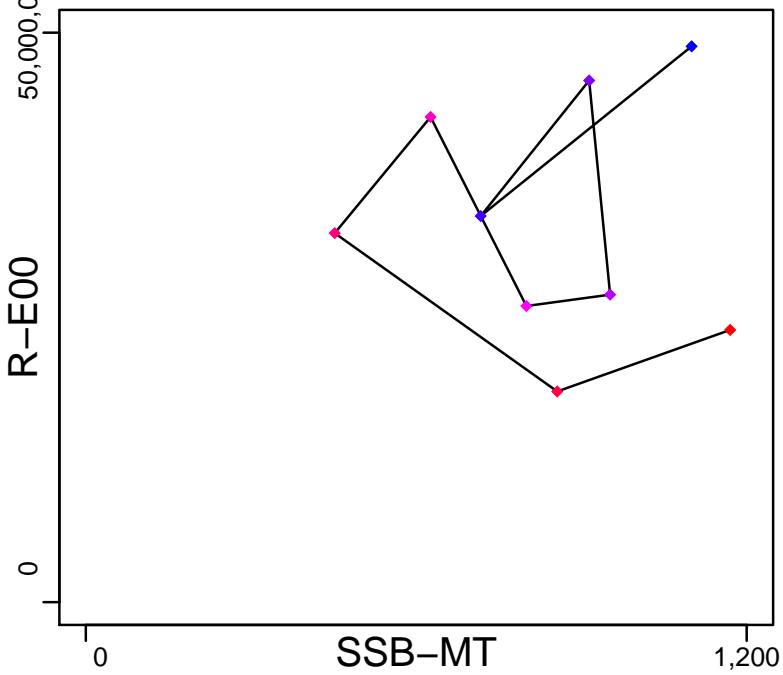
Kobe MSYpref (2006–2014–OSIO)



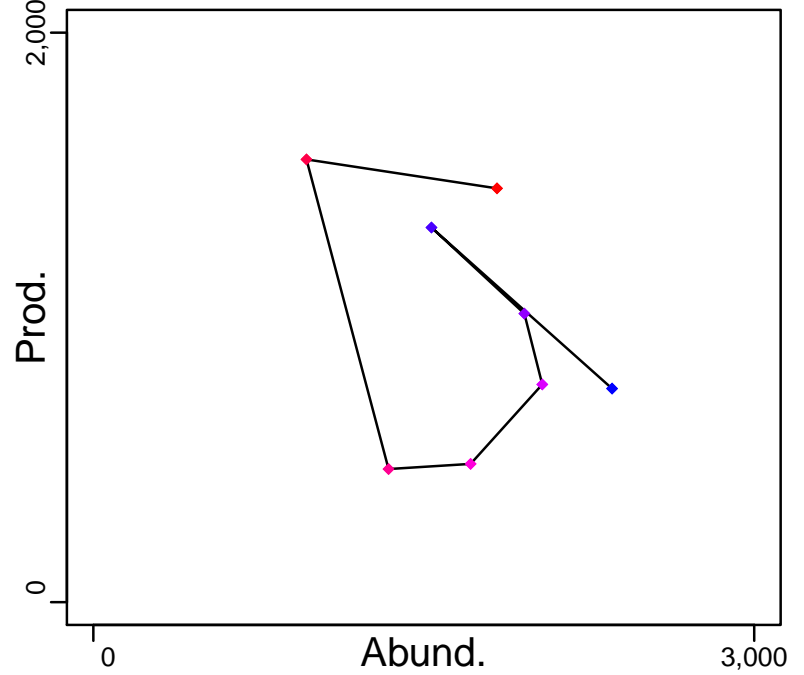
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



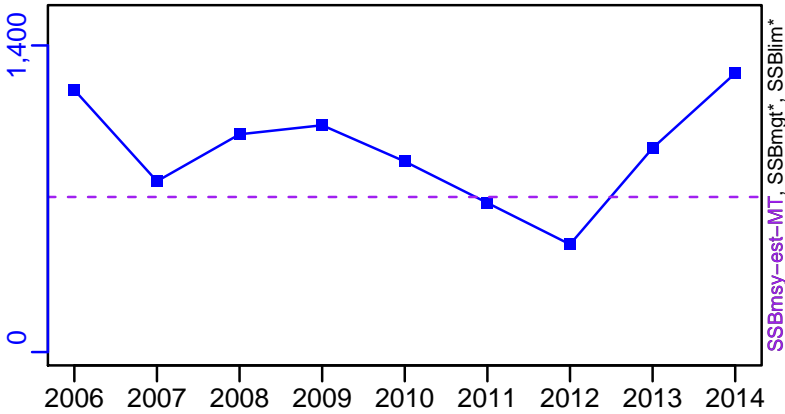
◆ Start Year ◆ End Year * No Data

Hake Western Ionian Sea [HAKEMEDGSA19]

TB*



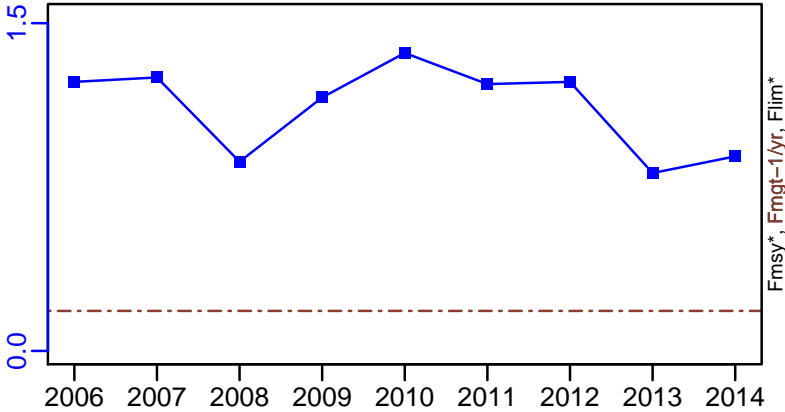
SSB-MT (2006–2014–OSIO)



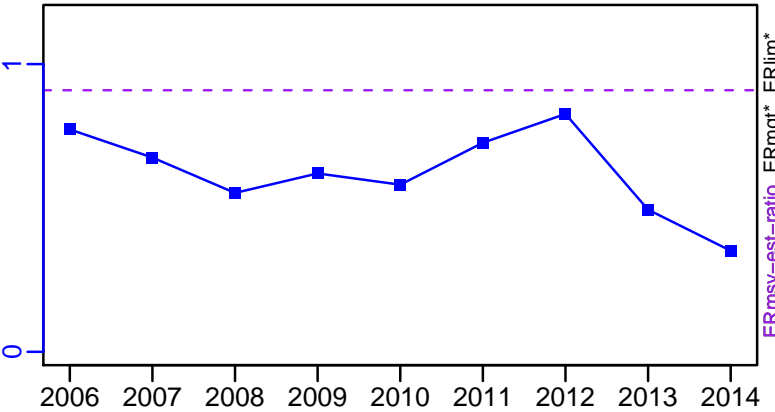
TN *



F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

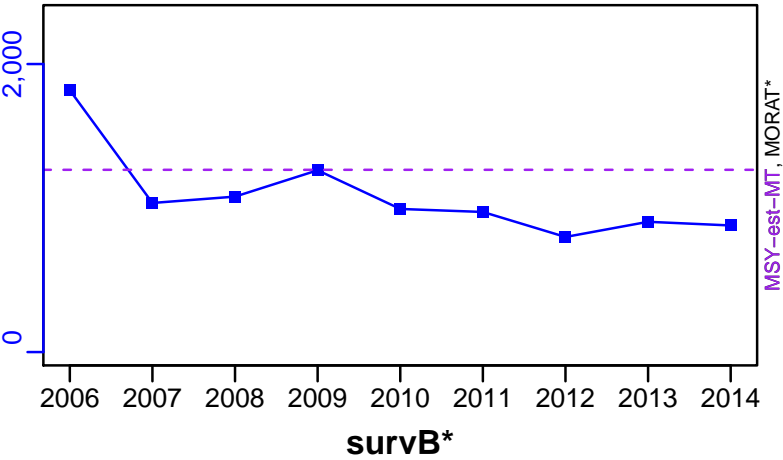


R-E00 (2006–2014–OSIO)



Hake Western Ionian Sea [HAKEMEDGSA19]

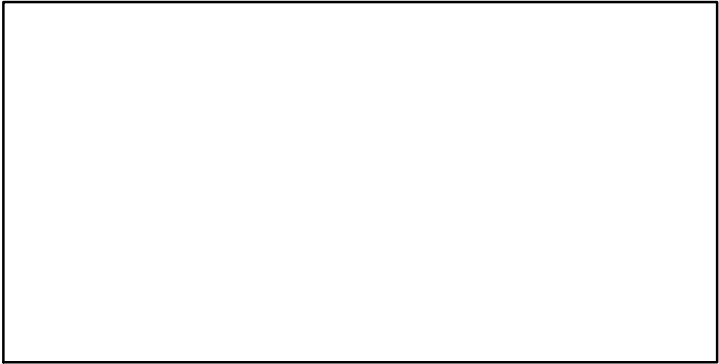
TC-MT, TL*, RecC* (2006–2014–OSIO)



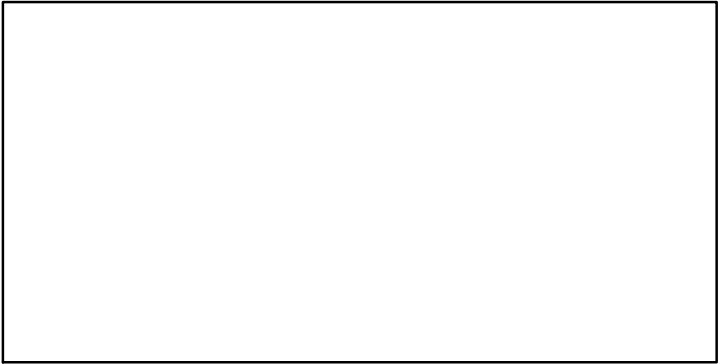
TAC*, Cpair*, Cadv*



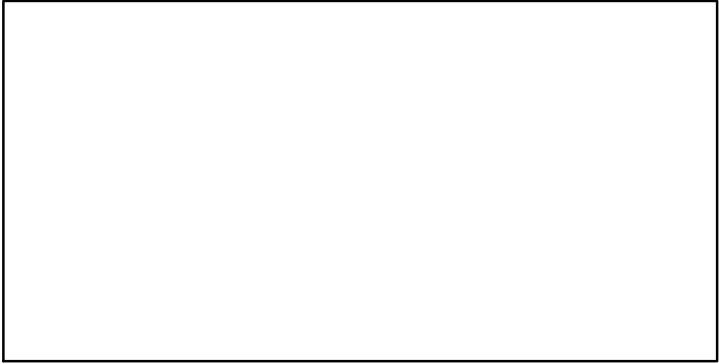
survB*



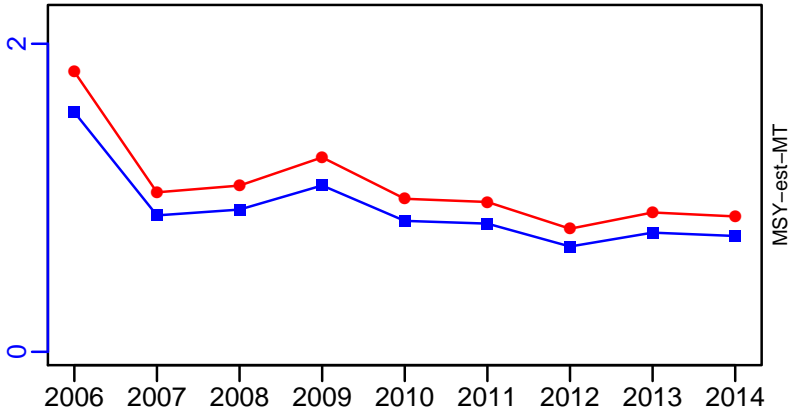
CPUE*



EFFORT*



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



Hake Eastern Ionian Sea [HAKEMEDGSA20]

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



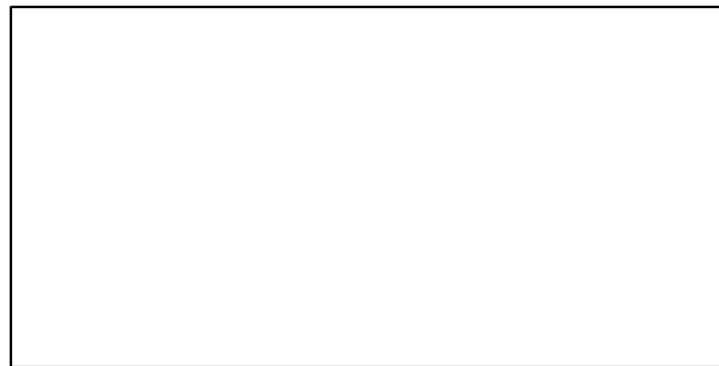
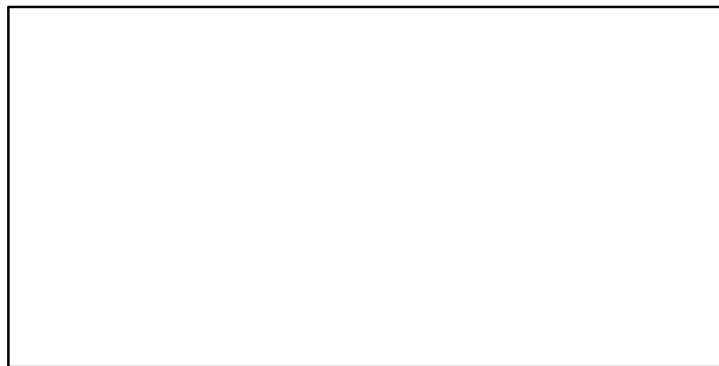
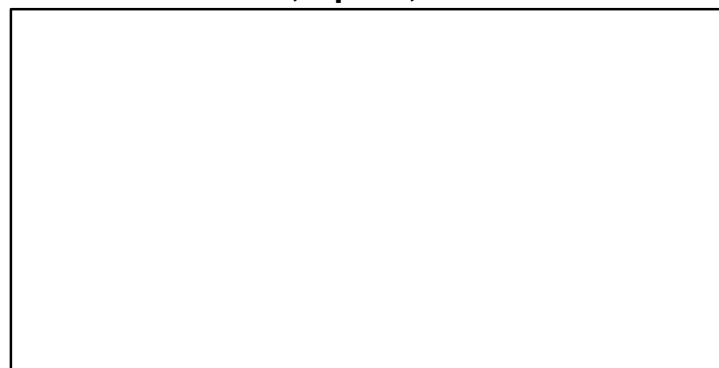
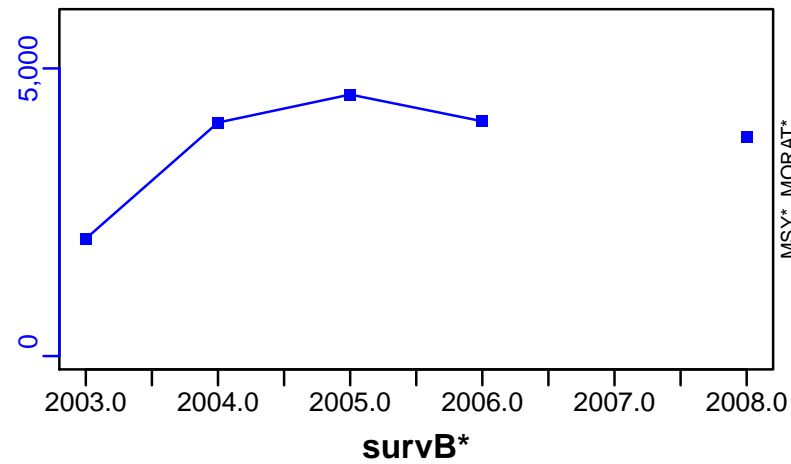
Recruits*



Hake Eastern Ionian Sea [HAKEMEDGSA20]

TC-MT, TL*, RecC* (2003–2008–OSIO)

TAC*, Cpair*, Cadv*



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

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2008 | 0.24 |
| 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 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2008 | 3.75×10^8 | - | - |
| F | F-1/yr | 2008 | 0.83 | - | - |
| ER | ER-calc-ratio | 2008 | 0.846 | - | - |
| TC | TC-MT | 2008 | 7160 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2008 | 3.458 | | |
| ER/ERmgt | - | - | - | | |

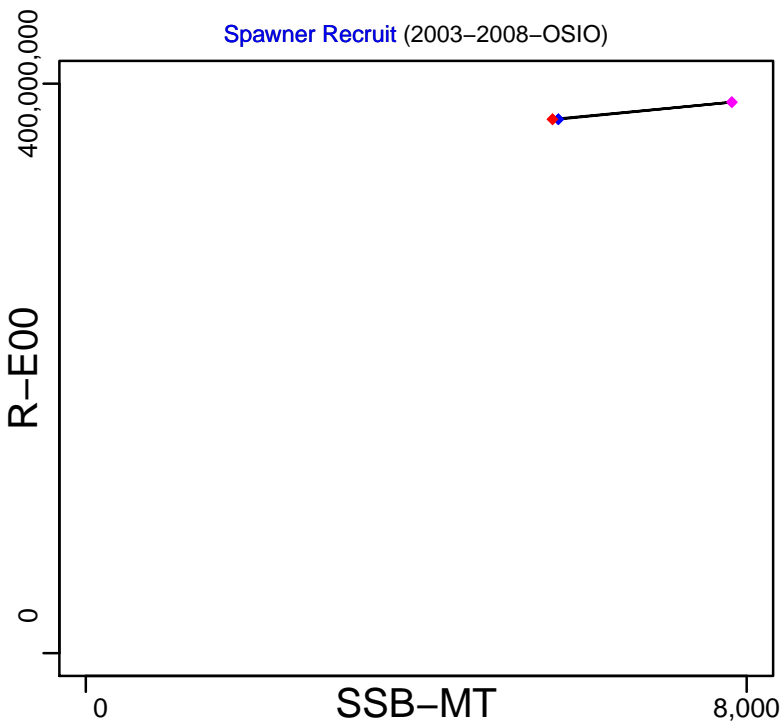
Kobe MSY*



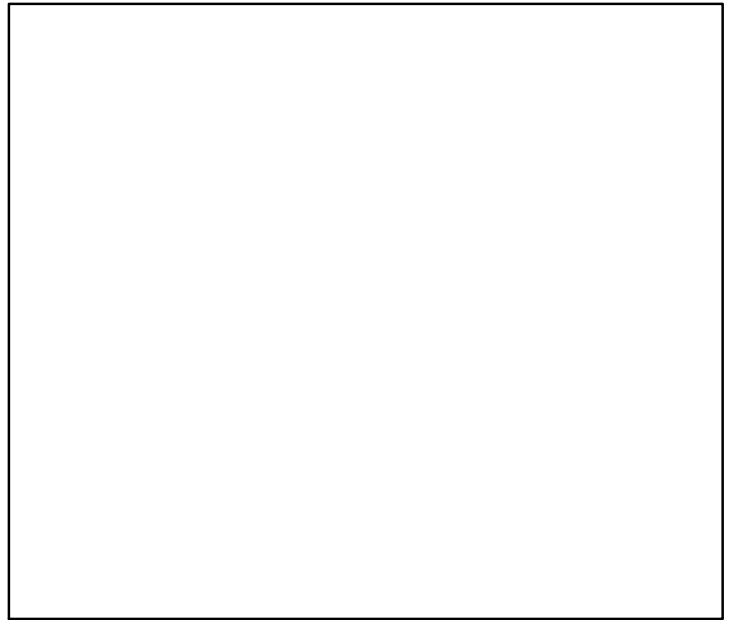
Kobe MGT*



Spawner Recruit (2003–2008–OSIO)



Production*



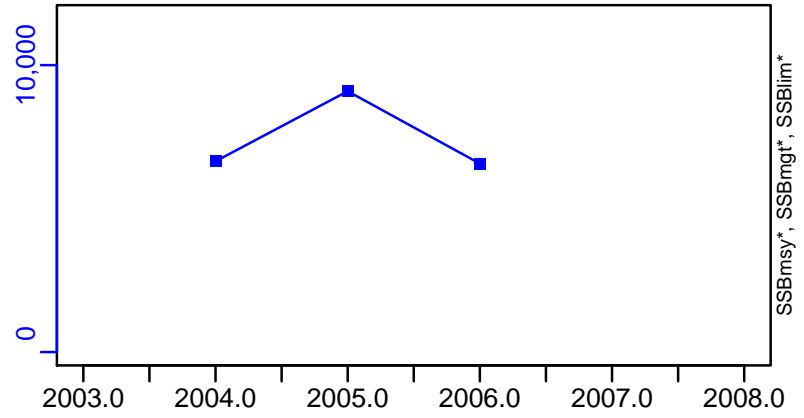
◆ Start Year ◆ End Year * No Data

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

TB*



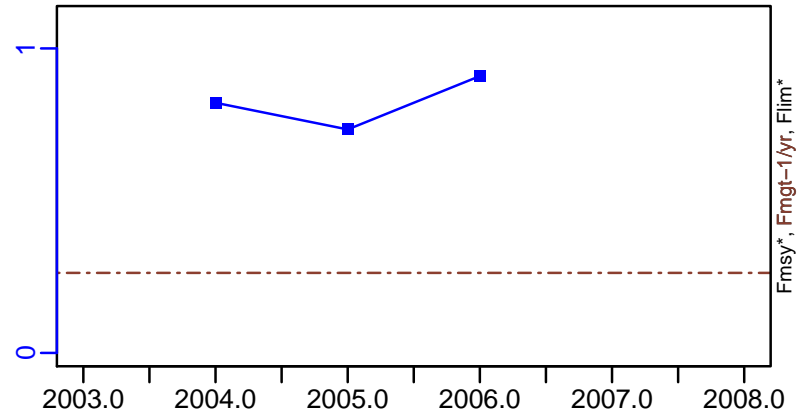
SSB-MT (2003–2008–OSIO)



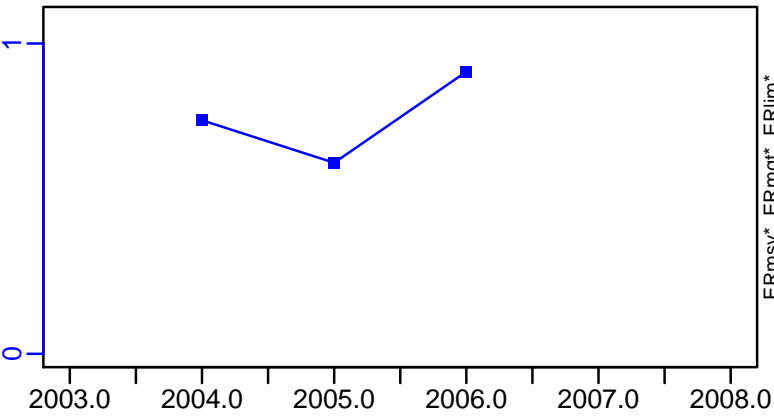
TN *



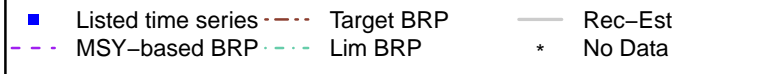
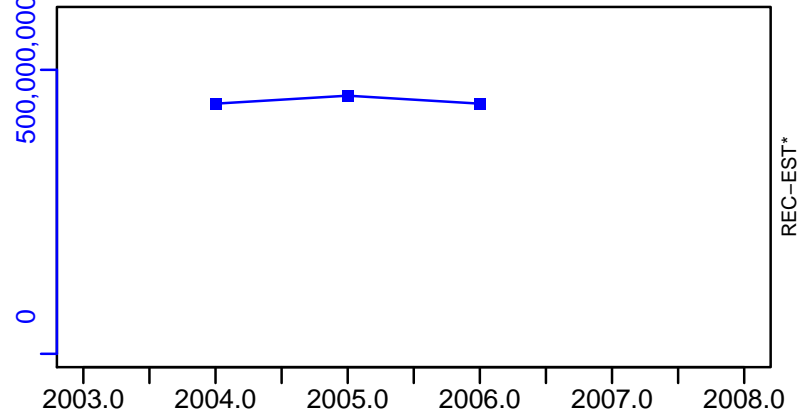
F-1/yr (2003–2008–OSIO)



ER-calc-ratio (2003–2008–OSIO)

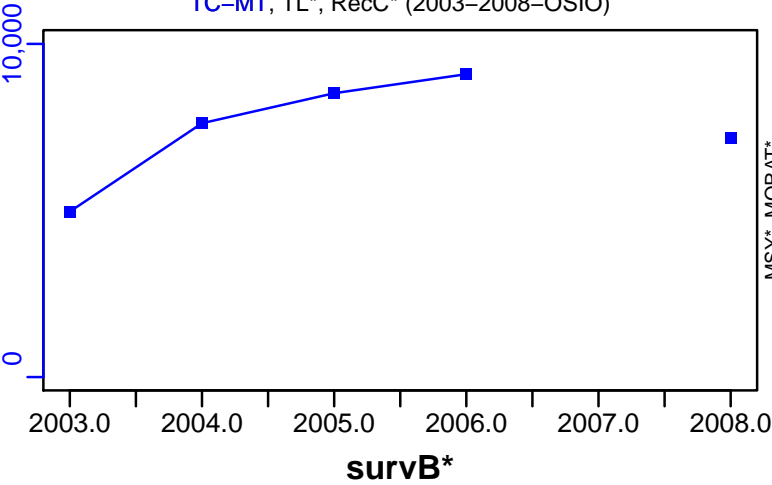


R-E00 (2003–2008–OSIO)



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

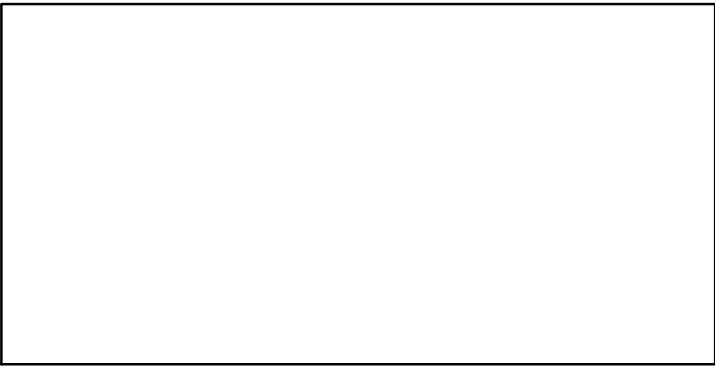
TC-MT, TL*, RecC* (2003-2008-OSIO)



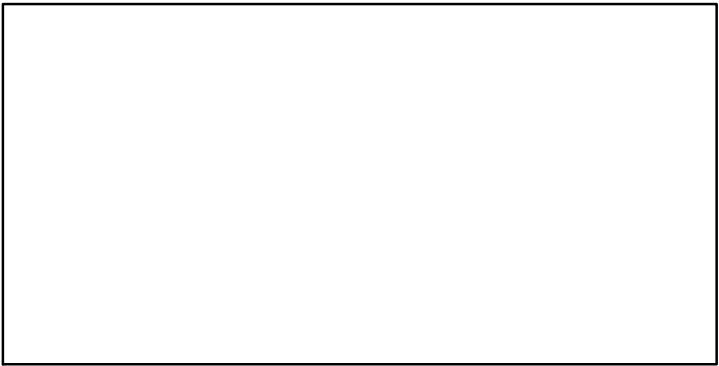
TAC*, Cpair*, Cadv*



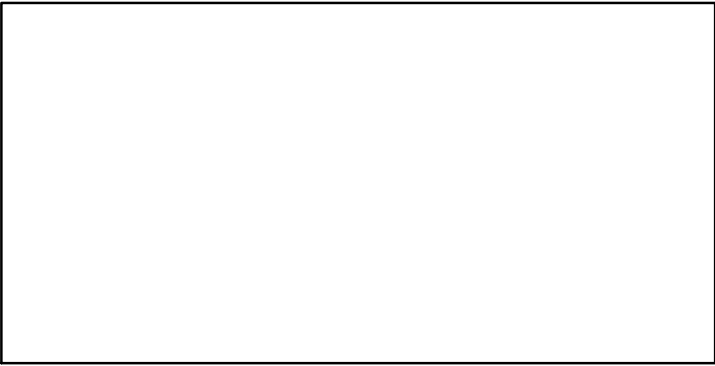
survB*



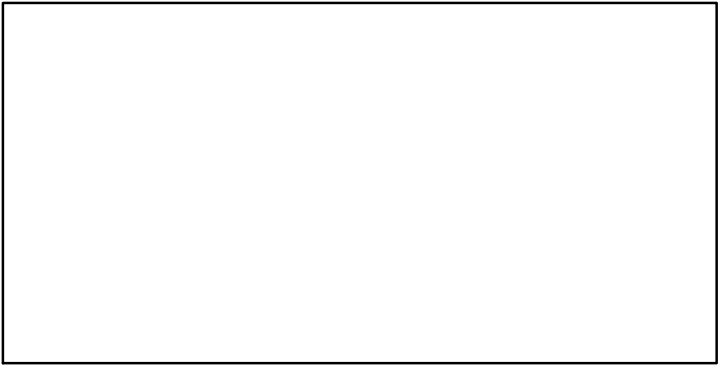
CPUE*



EFFORT*



CdivMSY*



Hake Gulf of Lions [HAKEMEDGSA7]

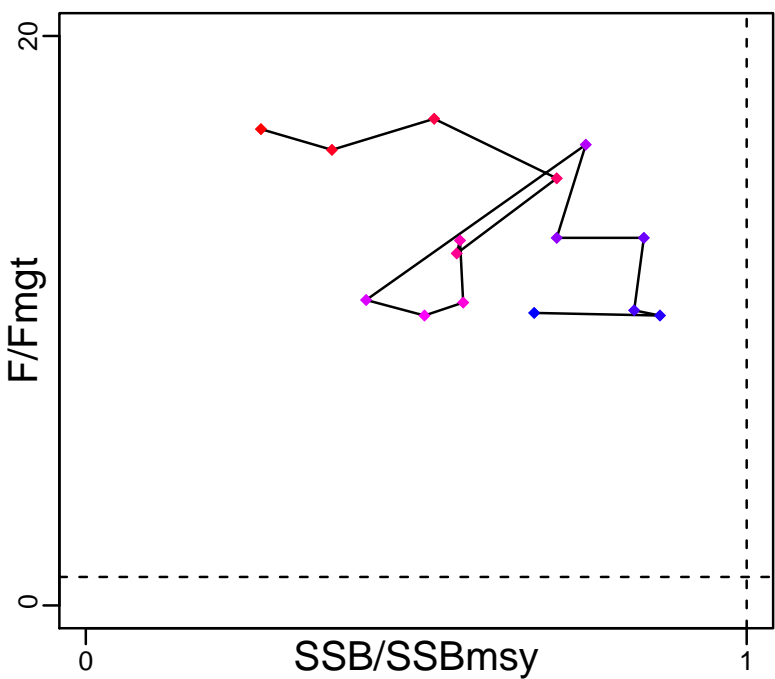
| Metadata | |
|-----------------------------|---|
| Scientific Name | Merluccius merluccius |
| Current Assess ID | STECF-HAKEMEDGSA7-1998-2012-OSIO |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2012 | 2049 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.497 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.11 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 2272 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

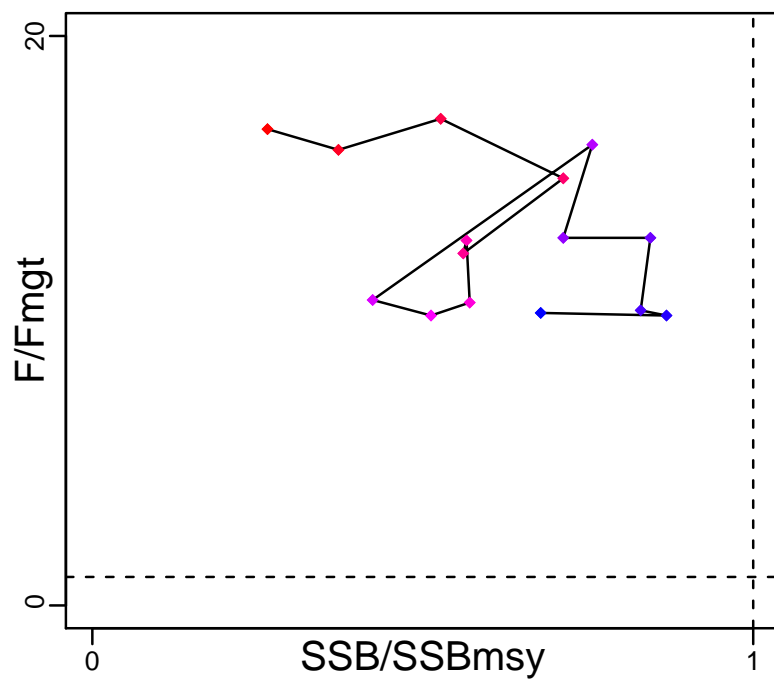
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 543 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 19,700,000 | - | - |
| F | F-1/yr | 2012 | 1.84 | - | - |
| ER | ER-calc-ratio | 2012 | 0.917 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2012 | 1110 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2012 | 0.265 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 1.844 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 16.727 | | |
| ER/ERmgt | - | - | - | | |

Hake Gulf of Lions [HAKEMEDGSA7]

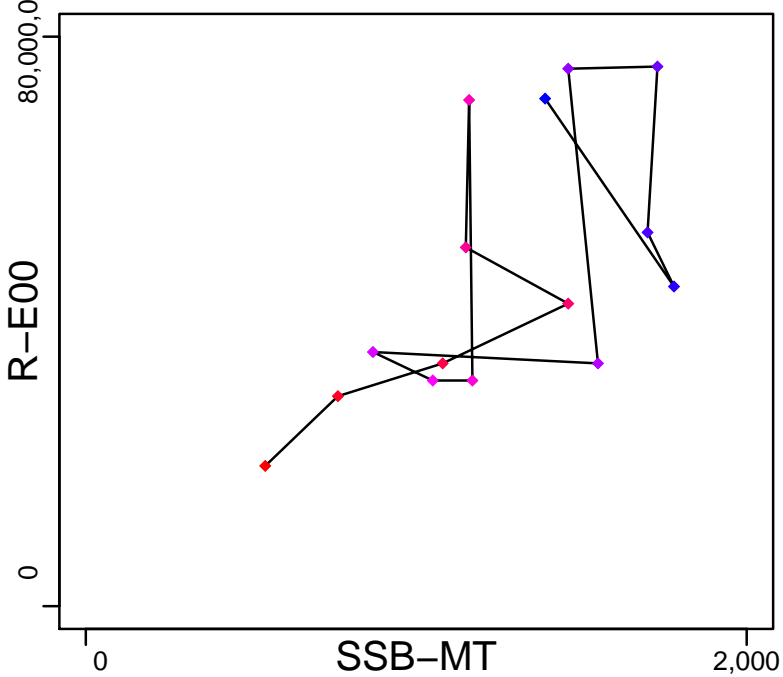
Kobe MSYpref (1998–2012–OSIO)



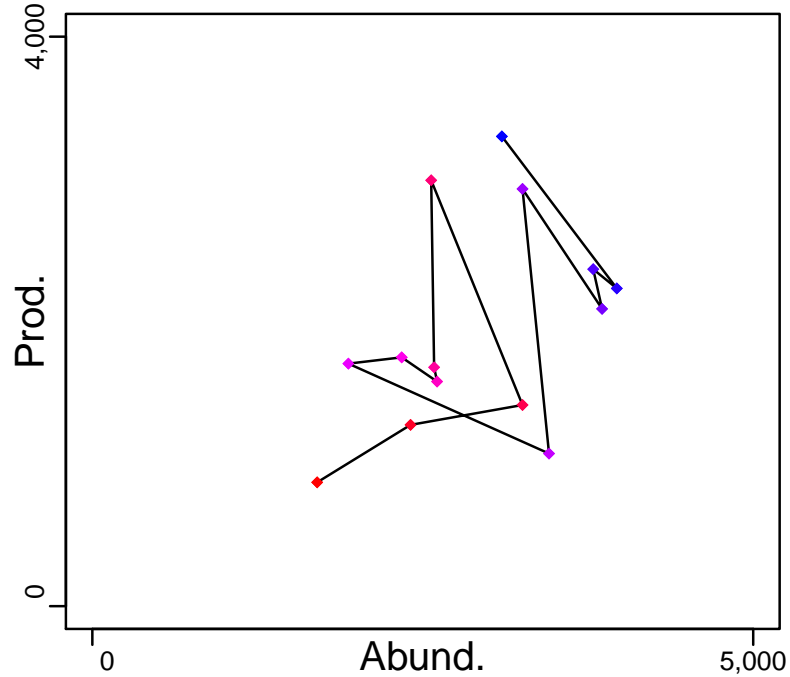
Kobe MGTpref (1998–2012–OSIO)



Spawner Recruit (1998–2012–OSIO)



Production (1998–2012–OSIO)



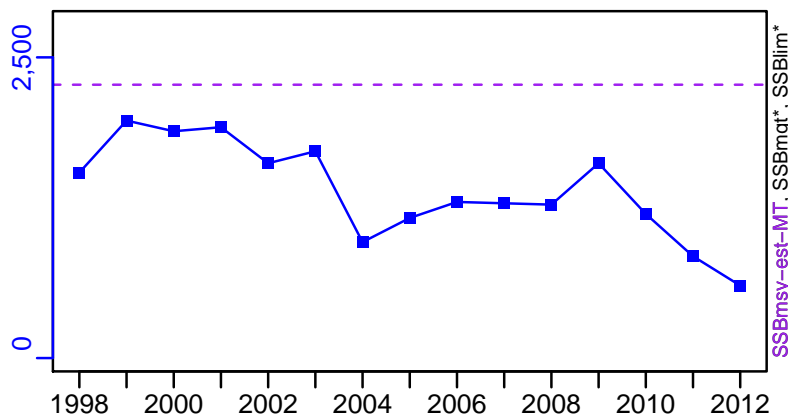
◆ Start Year ◆ End Year * No Data

Hake Gulf of Lions [HAKEMEDGSA7]

TB*



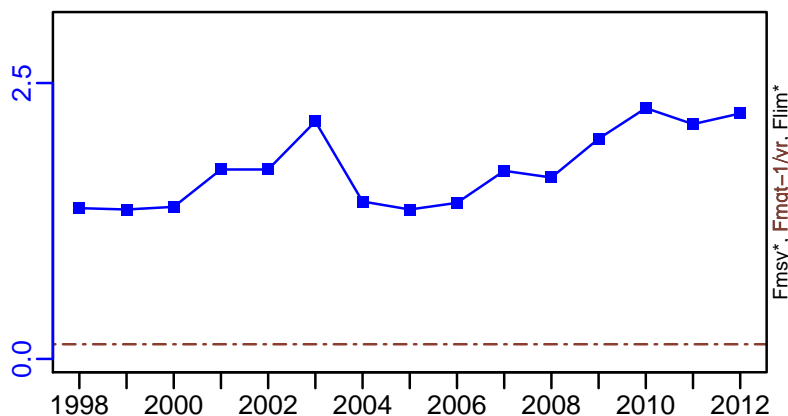
SSB-MT (1998–2012–OSIO)



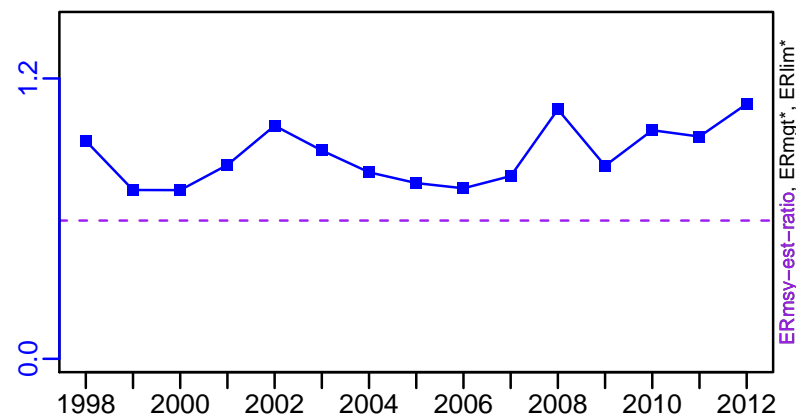
TN *



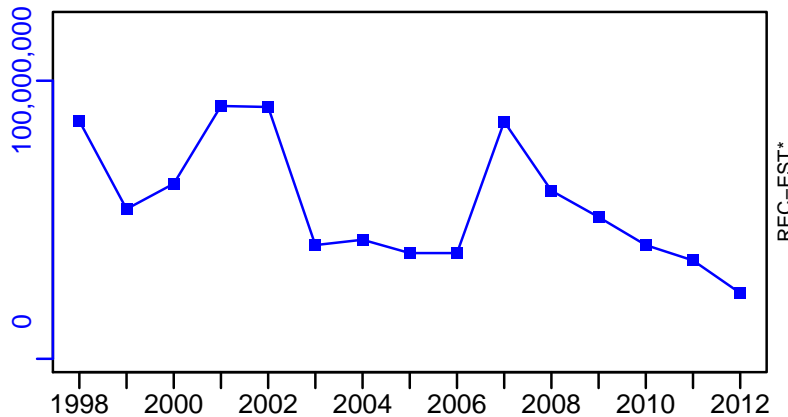
F-1/yr (1998–2012–OSIO)



ER-calc-ratio (1998–2012–OSIO)

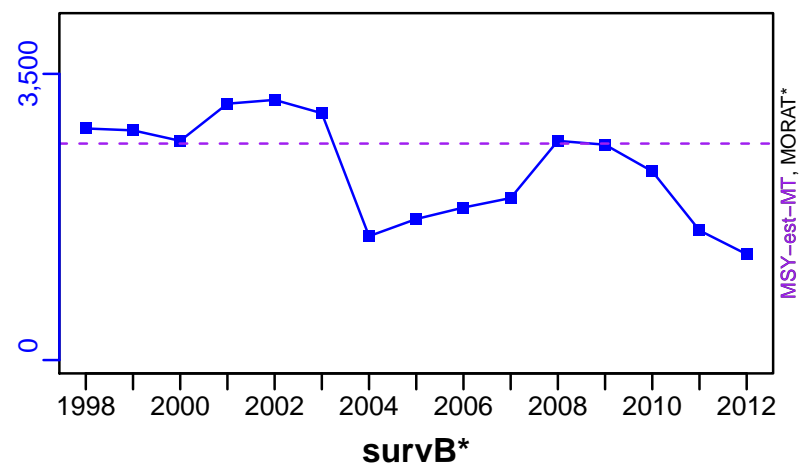


R-E00 (1998–2012–OSIO)



Hake Gulf of Lions [HAKEMEDGSA7]

TL-MT, TC*, RecC* (1998–2012–OSIO)



TAC*, Cpair*, Cadv*



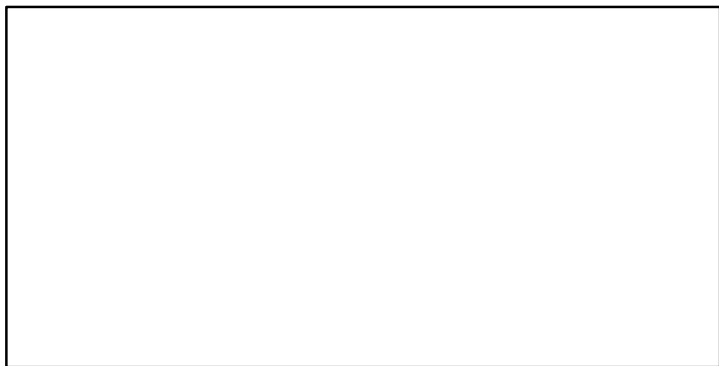
survB*



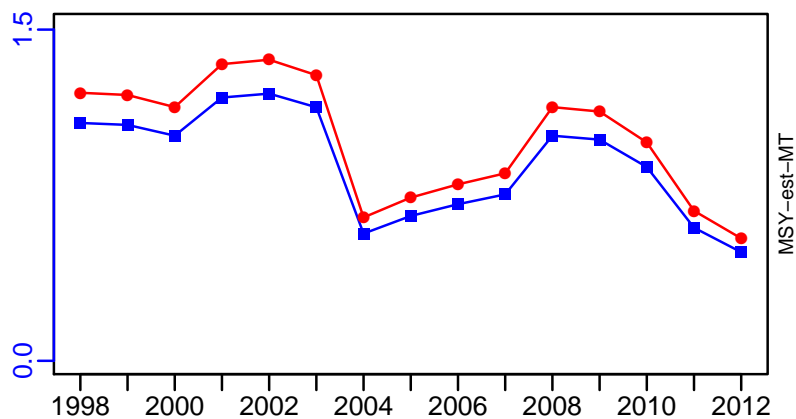
CPUE*



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]

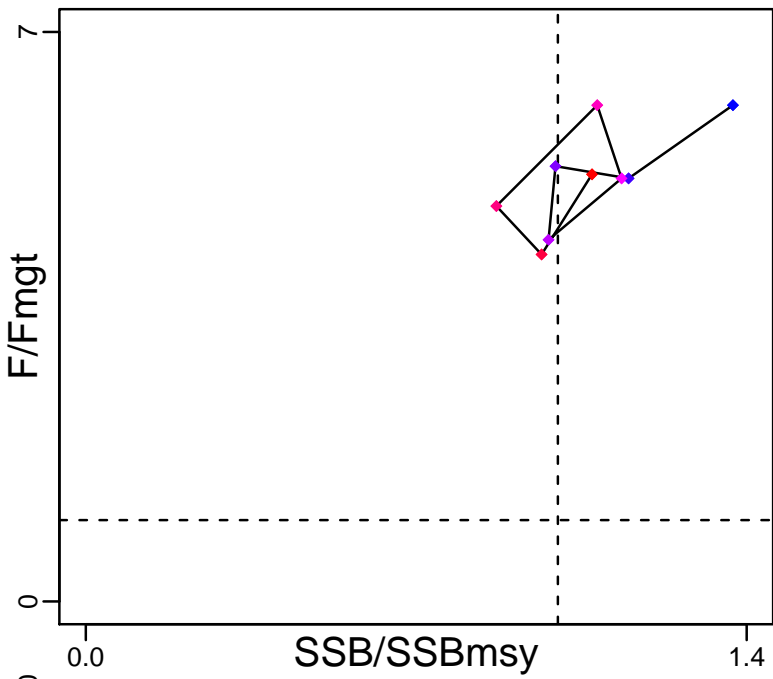
| Metadata | |
|-----------------------------|---|
| Scientific Name | Merluccius merluccius |
| Current Assess ID | STECF-HAKEMEDGSA9-11-2006-2014-OSIO |
| Area | Geographical Sub-Areas 9-11 |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
|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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 2714 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.584 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.2 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 3384 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 2355 |
| Flim | - | - | - |
| ERlim | - | - | - |

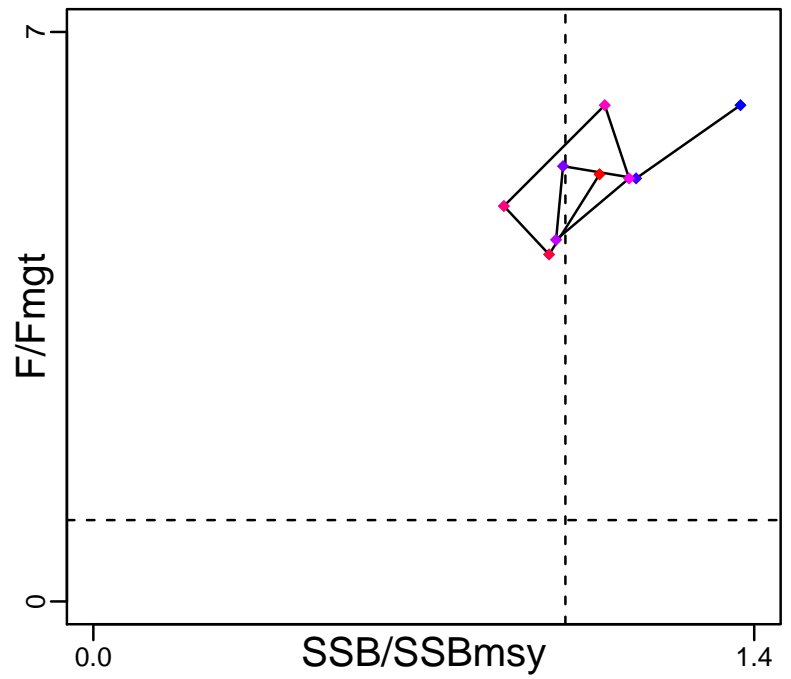
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 2910 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.41×10^8 | - | - |
| F | F-1/yr | 2014 | 1.05 | - | - |
| ER | ER-calc-ratio | 2014 | 0.494 | - | - |
| TC | TC-MT | 2014 | 3070 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.072 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.846 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 5.25 | | |
| ER/ERmgt | - | - | - | | |

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

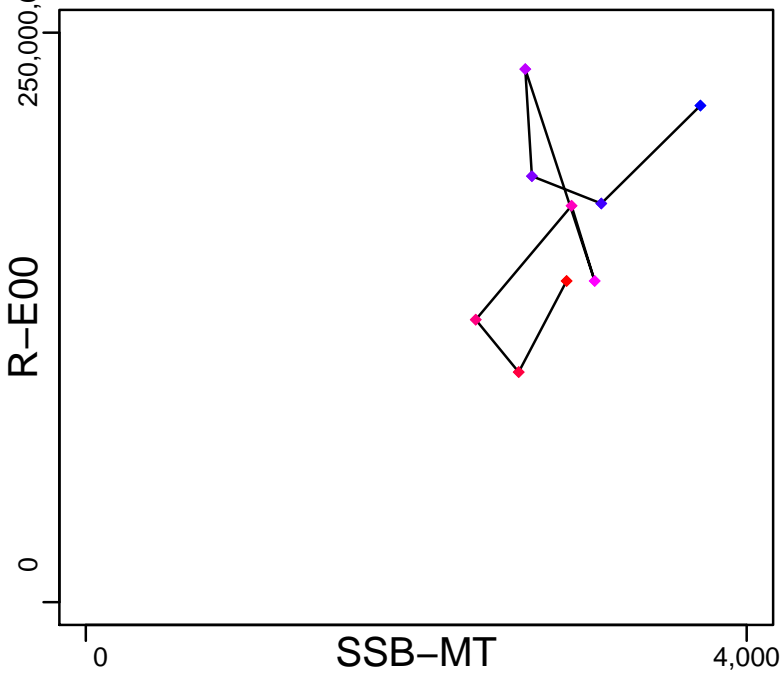
Kobe MSYpref (2006–2014–OSIO)



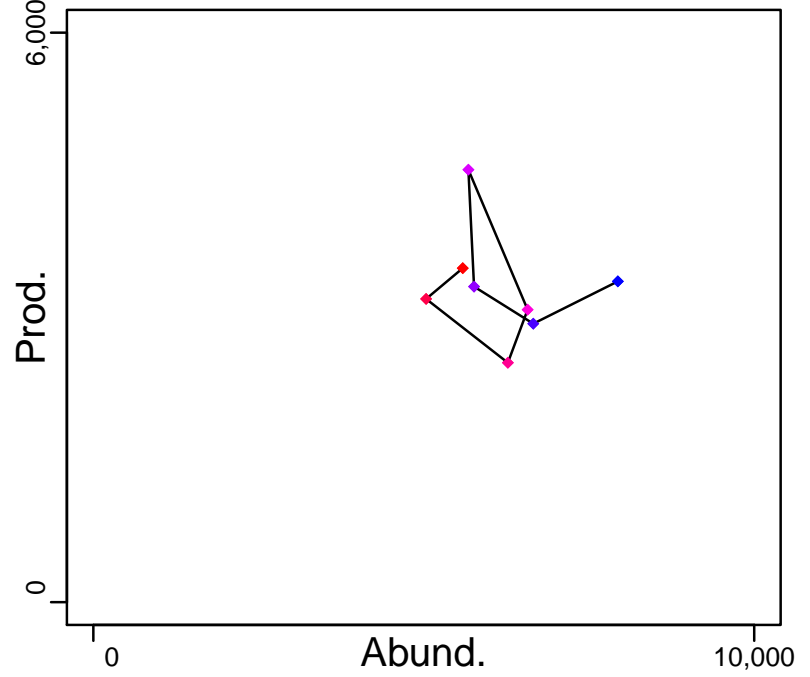
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



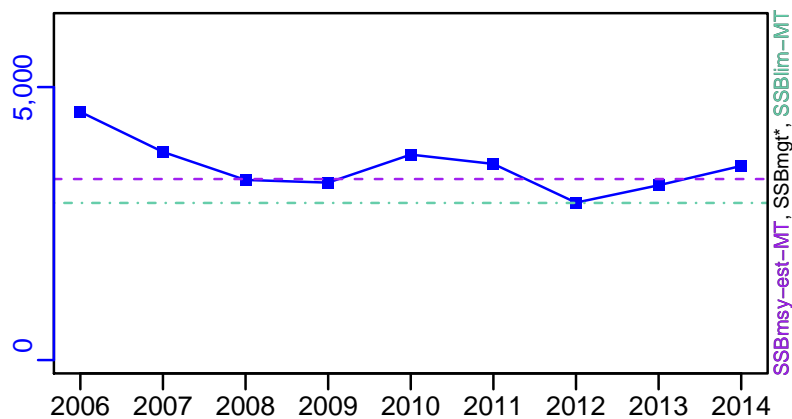
◆ Start Year ◆ End Year * No Data

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

TB*



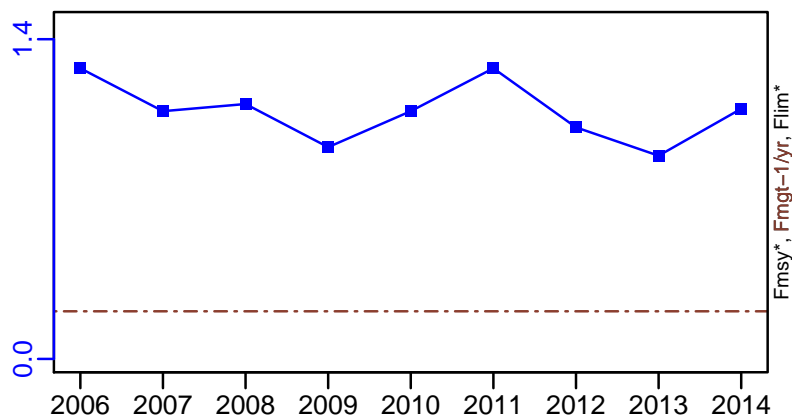
SSB-MT (2006–2014–OSIO)



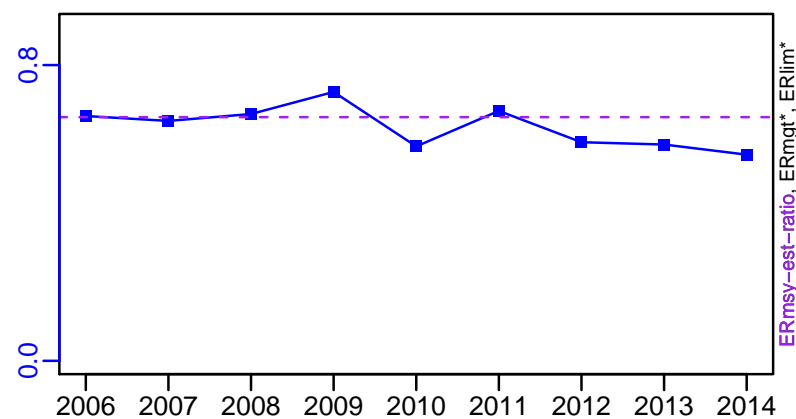
TN *



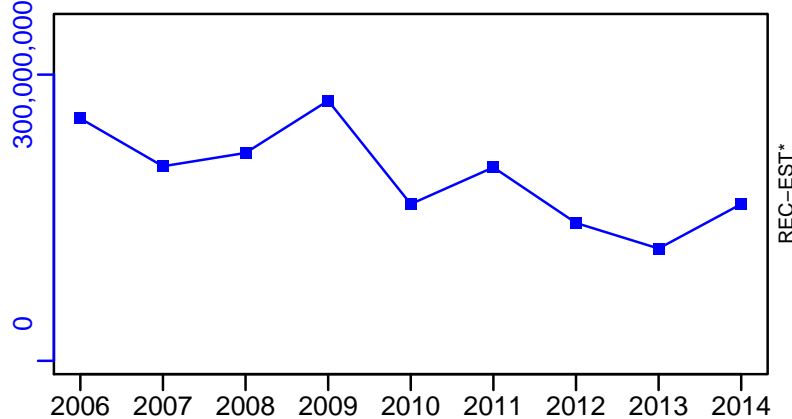
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

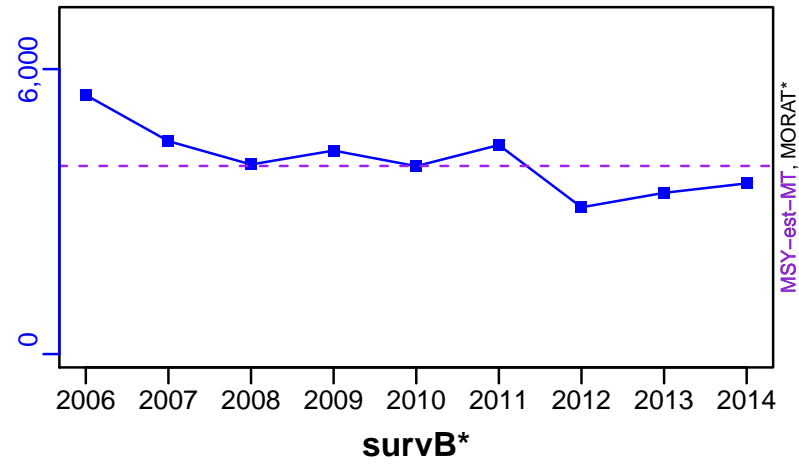


R-E00 (2006–2014–OSIO)



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

TC-MT, TL*, RecC* (2006–2014–OSIO)



TAC*, Cpair*, Cadv*



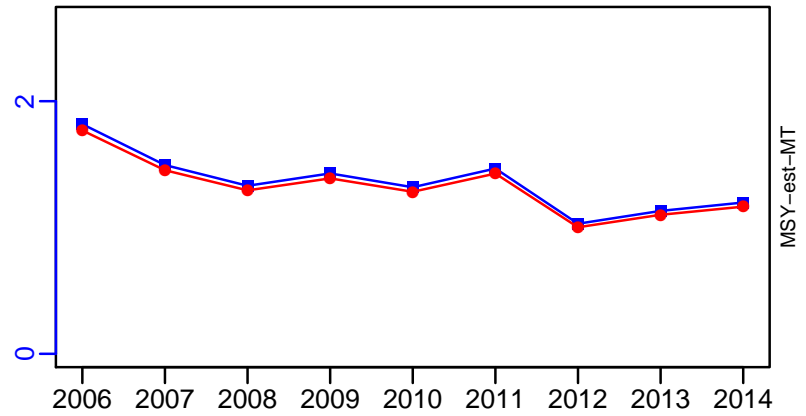
CPUE*



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

Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

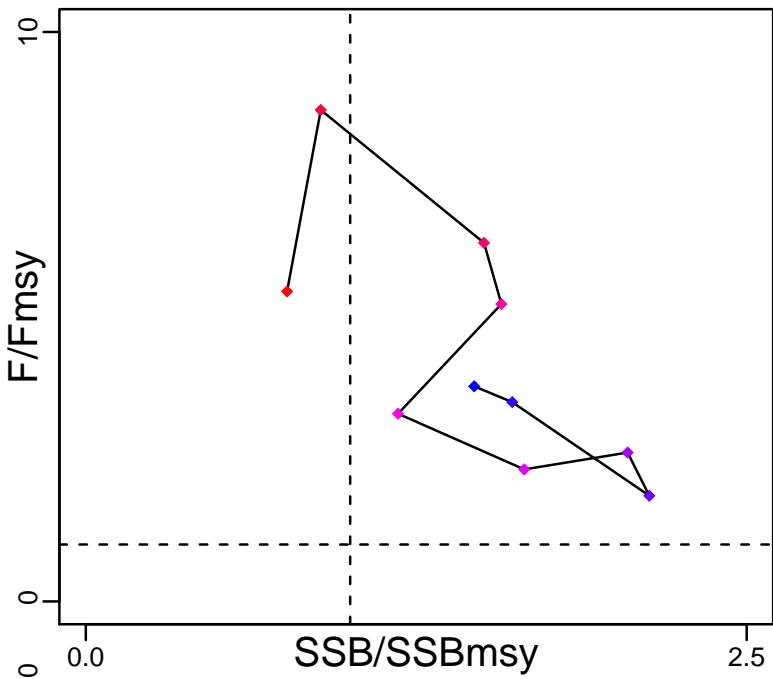
| Metadata | |
|-----------------------------|---|
| Scientific Name | Trachurus mediterraneus |
| Current Assess ID | STECF-MHMACKMEDGSA29-2005-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 24,299 |
| Fmsy | Fmsy-1/yr | 2014 | 0.27 |
| ERmsy | ERmsy-est-ratio | 2014 | 0.274 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.27 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 19,690 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

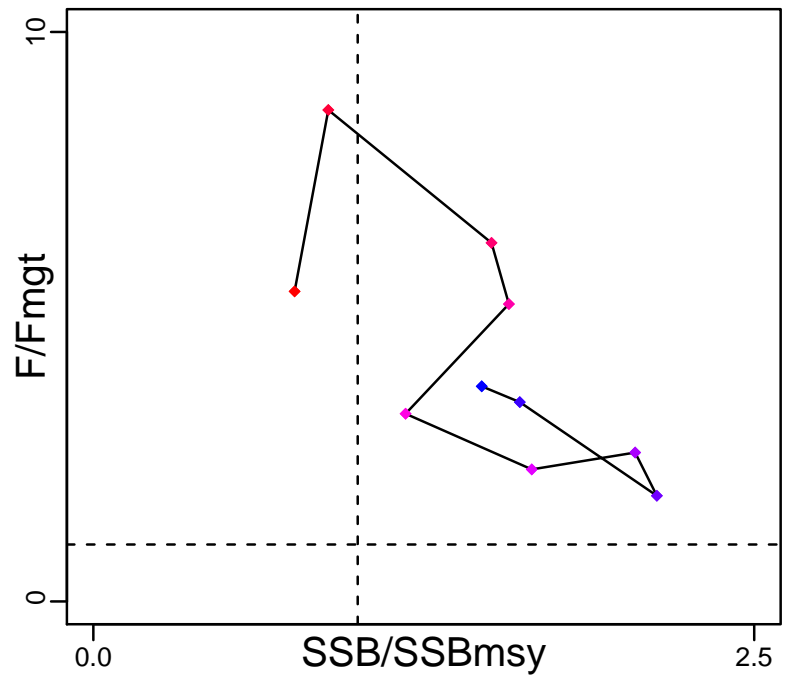
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 18,500 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 3.56×10^9 | - | - |
| F | F-1/yr | 2014 | 1.47 | - | - |
| ER | ER-calc-ratio | 2014 | 0.227 | - | - |
| TC | TC-MT | 2014 | 12,400 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.761 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 5.444 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.827 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 5.444 | | |
| ER/ERmgt | - | - | - | | |

Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

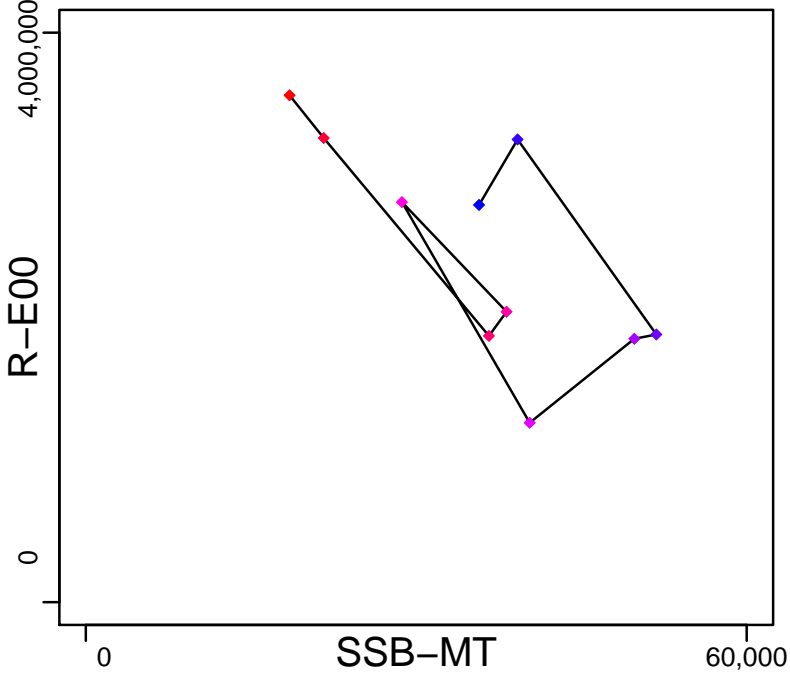
Kobe MSYpref (2005–2014–OSIO)



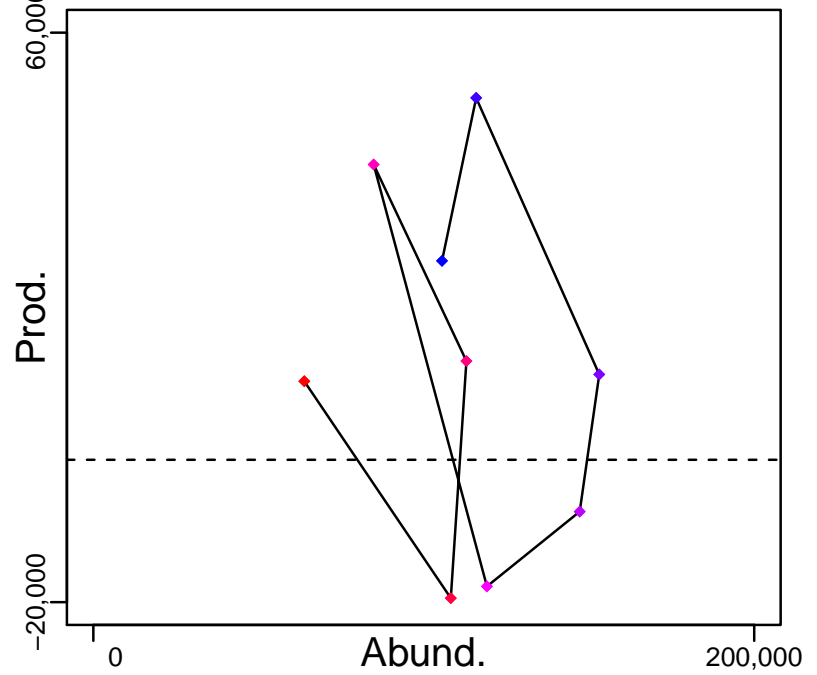
Kobe MGTpref (2005–2014–OSIO)



Spawner Recruit (2005–2014–OSIO)



Production (2005–2014–OSIO)



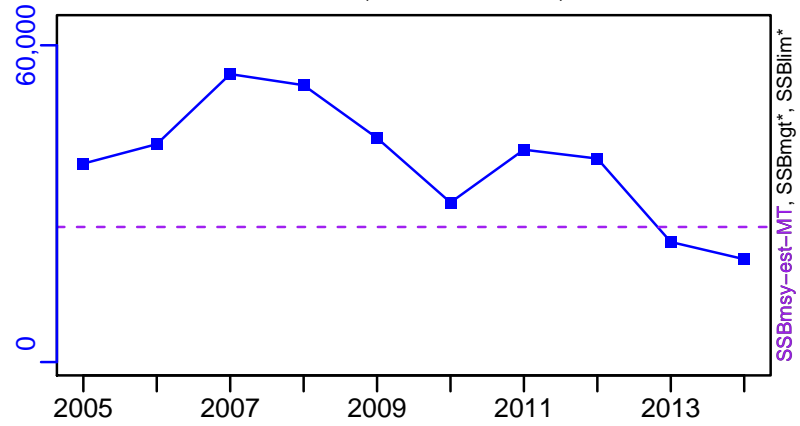
◆ Start Year ◆ End Year * No Data

Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

TB*



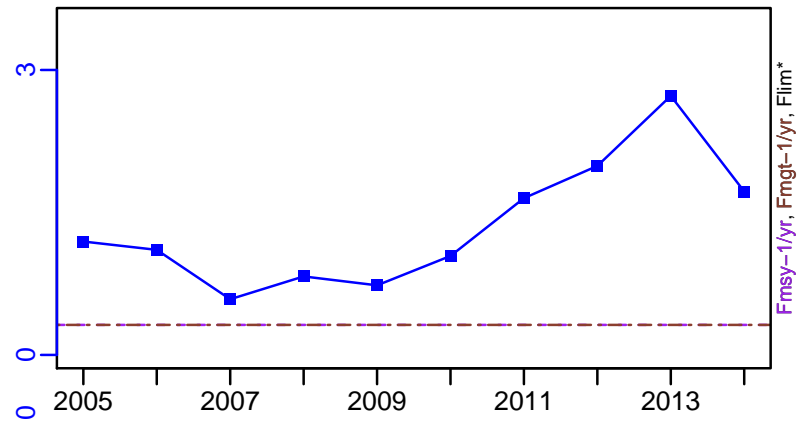
SSB-MT (2005–2014–OSIO)



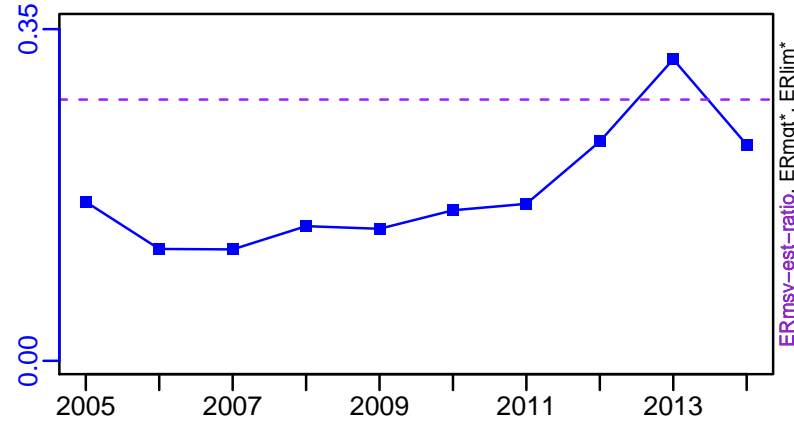
TN *



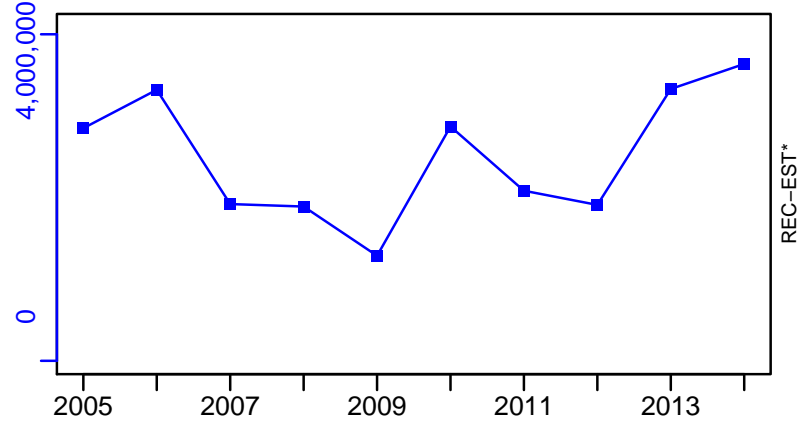
F-1/yr (2005–2014–OSIO)



ER-calc-ratio (2005–2014–OSIO)



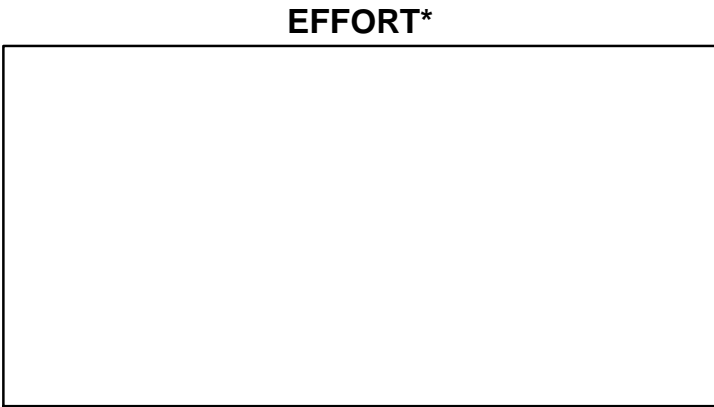
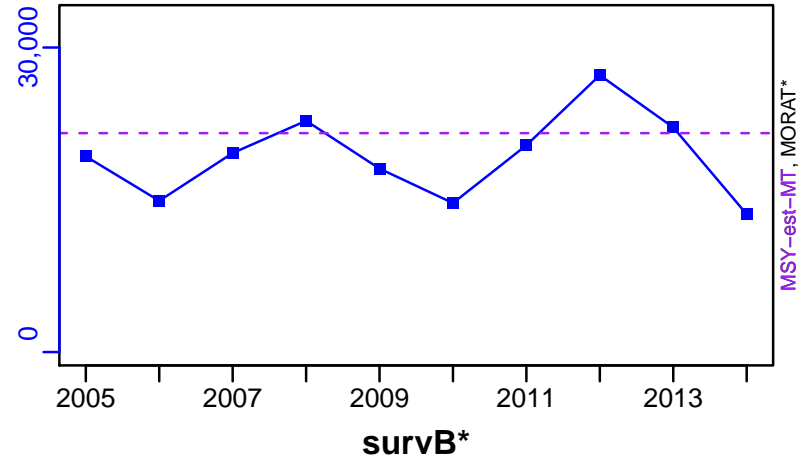
R-E00 (2005–2014–OSIO)



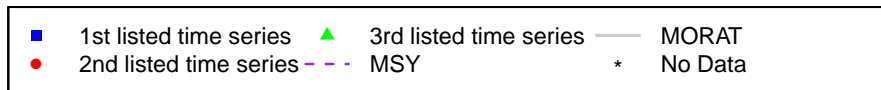
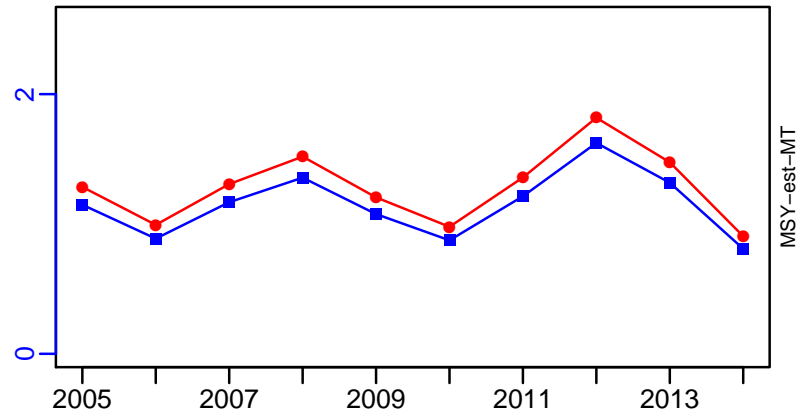
Mediterranean horse mackerel Black Sea [MHMACKMEDGSA29]

TC-MT, TL*, RecC* (2005–2014–OSIO)

TAC*, Cpair*, Cadv*



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

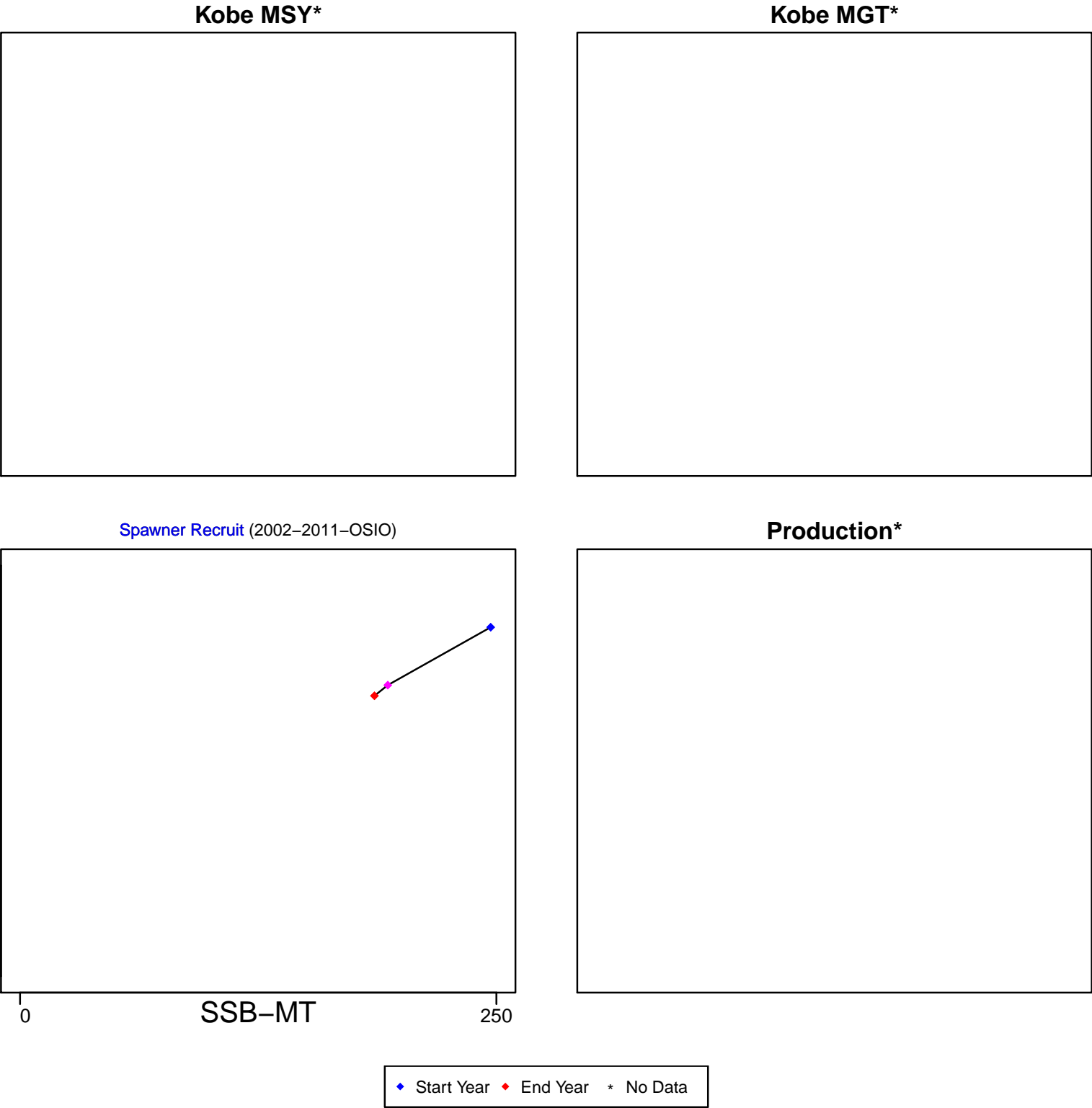


Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

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

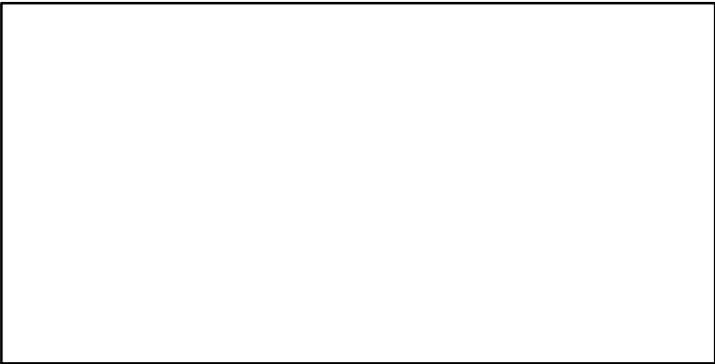
| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.2 |
| ERmgt | - | - | -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

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 186 | - | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 6,830,000 | - | - |
| F | F-1/yr | 2011 | 0.33 | - | - |
| ER | ER-calc-ratio | 2011 | 0.169 | - | - |
| TC | TC-MT | 2011 | 75 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 1.65 | | |
| ER/ERmgt | - | - | - | | |

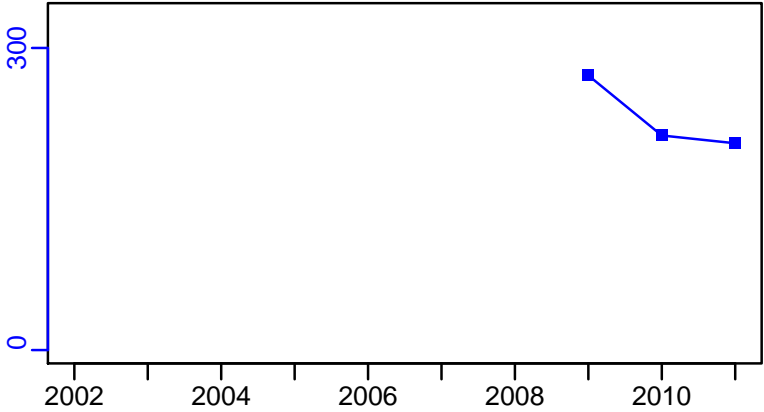


Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

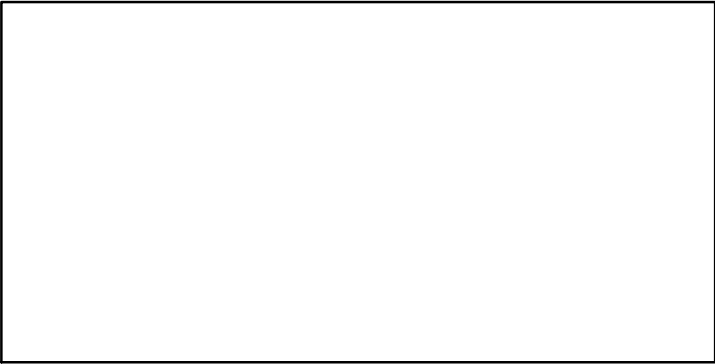
TB*



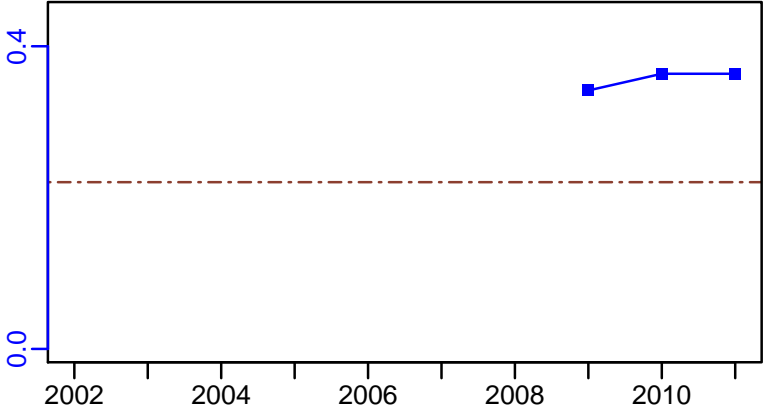
SSB-MT (2002–2011–OSIO)



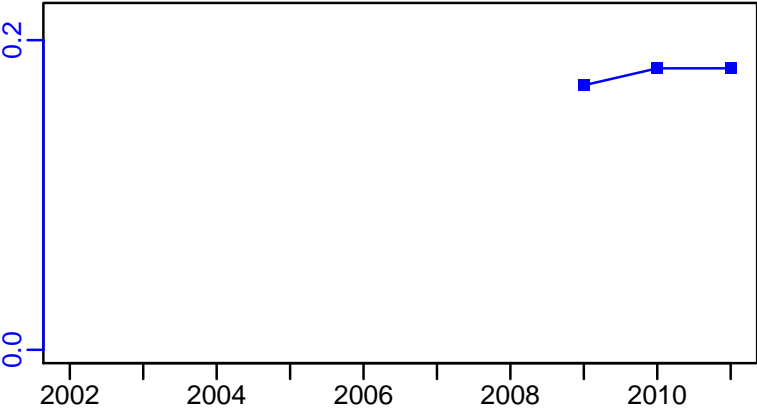
TN *



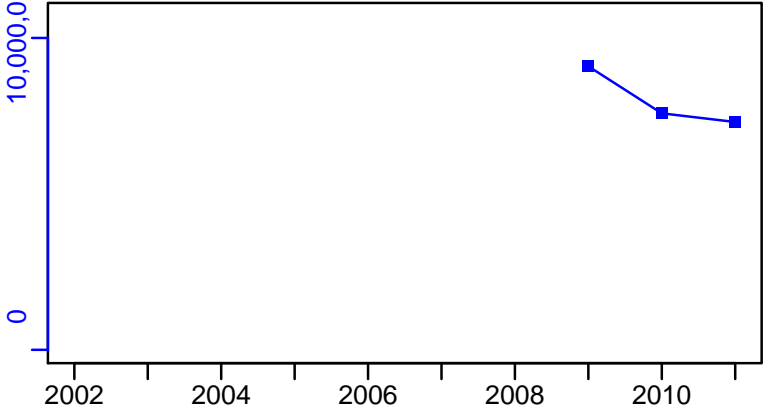
F-1/yr (2002–2011–OSIO)



ER-calc-ratio (2002–2011–OSIO)

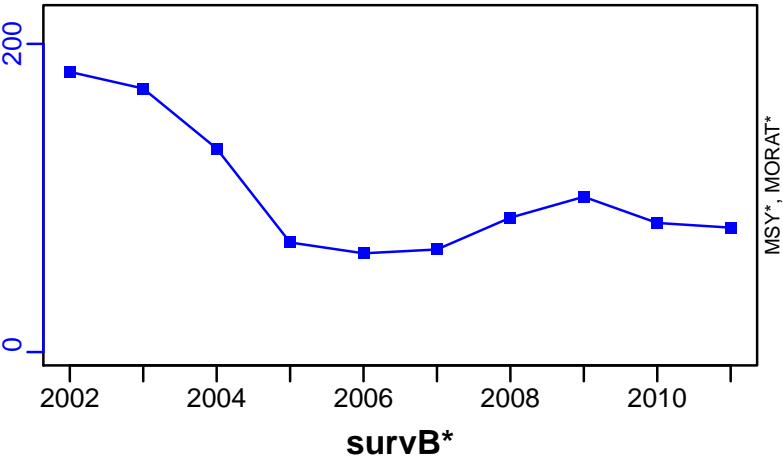


R-E00 (2002–2011–OSIO)



Norway lobster Northern Alboran Sea [NEPHMEDGSA1]

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



TAC*, Cpair*, Cadv*



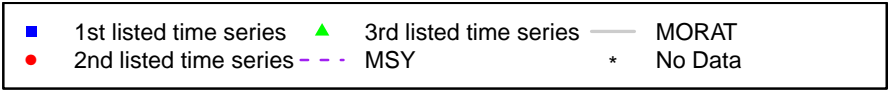
CPUE*



EFFORT*



CdivMSY*



Norway lobster Sardinia [NEPHMEDGSA11]

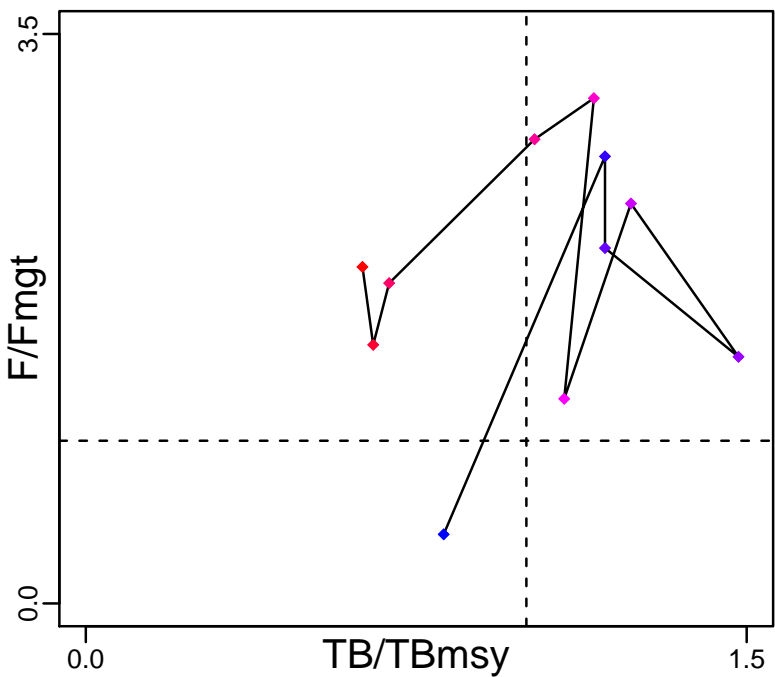
| Metadata | |
|-----------------------------|---|
| Scientific Name | Nephrops norvegicus |
| Current Assess ID | STECF-NEPHMEDGSA11-2005-2015-OSIO |
| Area | Sardinia |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

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

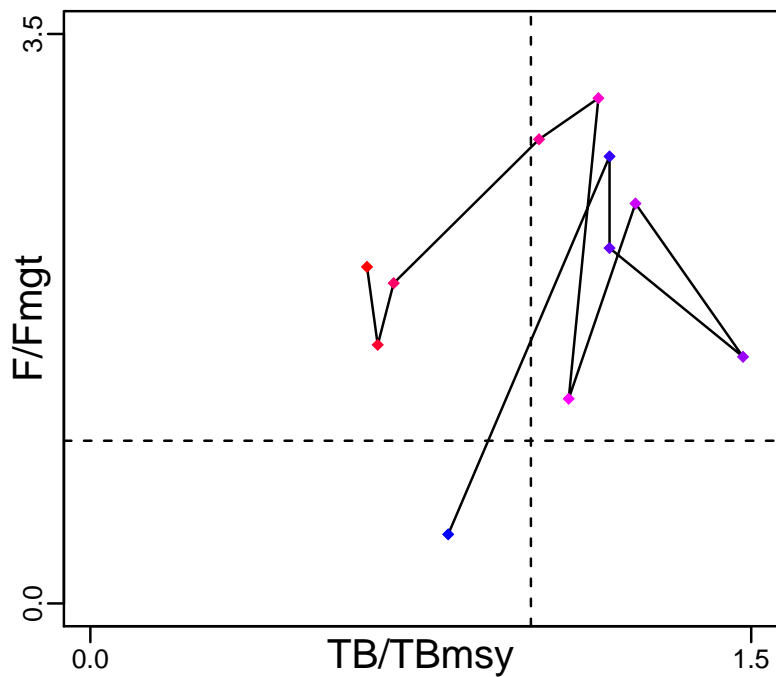
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 75 | - | - |
| SSB | SSB-MT | 2015 | 39 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 1,370,000 | -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

Norway lobster Sardinia [NEPHMEDGSA11]

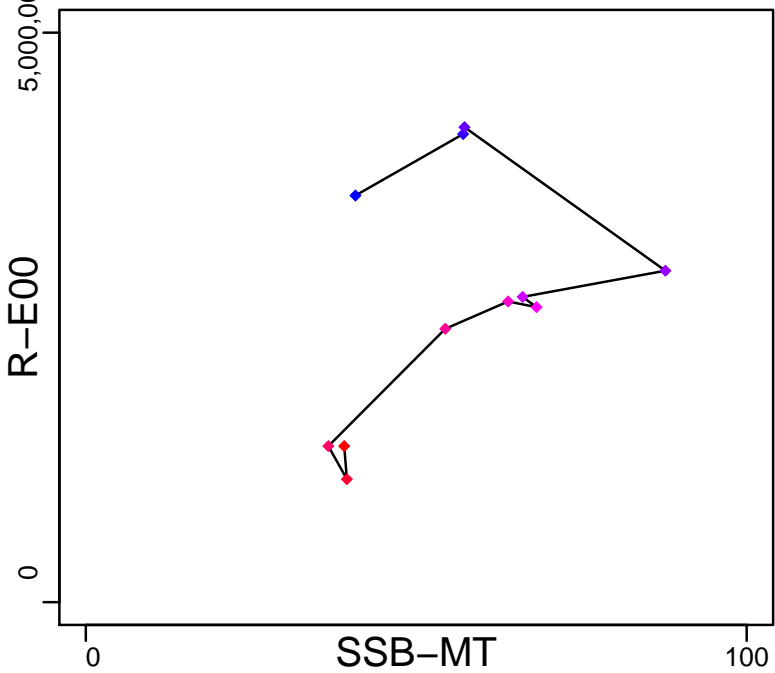
Kobe MSYpref (2005–2015–OSIO)



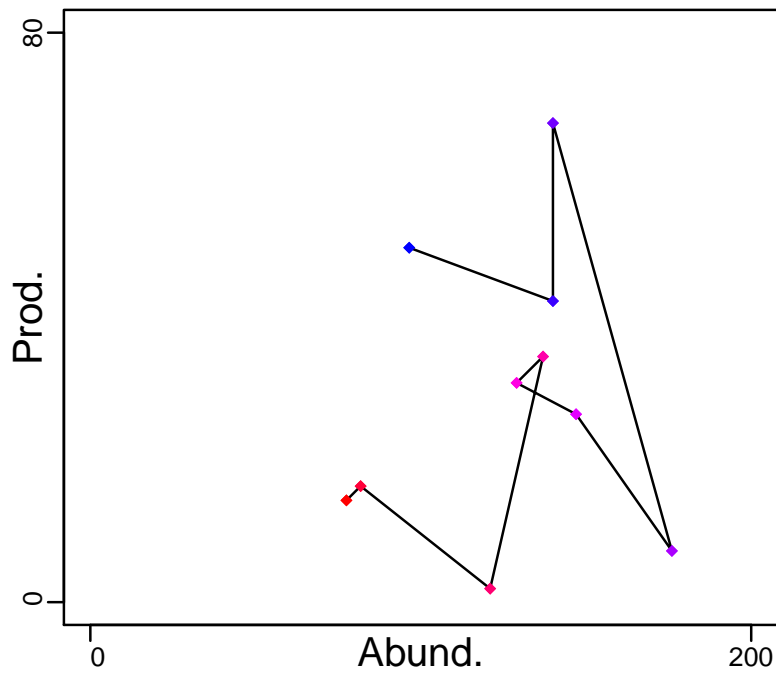
Kobe MGTpref (2005–2015–OSIO)



Spawner Recruit (2005–2015–OSIO)



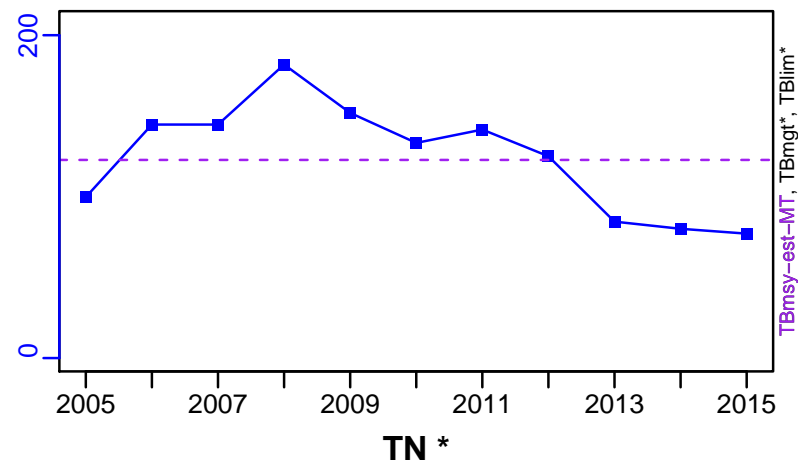
Production (2005–2015–OSIO)



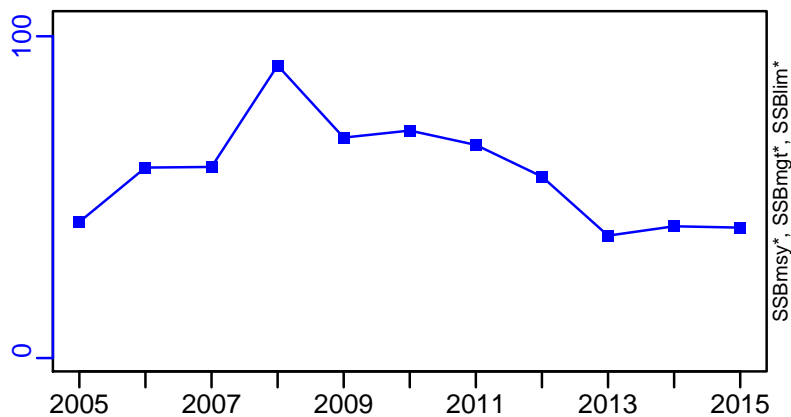
◆ Start Year ◆ End Year * No Data

Norway lobster Sardinia [NEPHMEDGSA11]

TB-MT (2005–2015–OSIO)



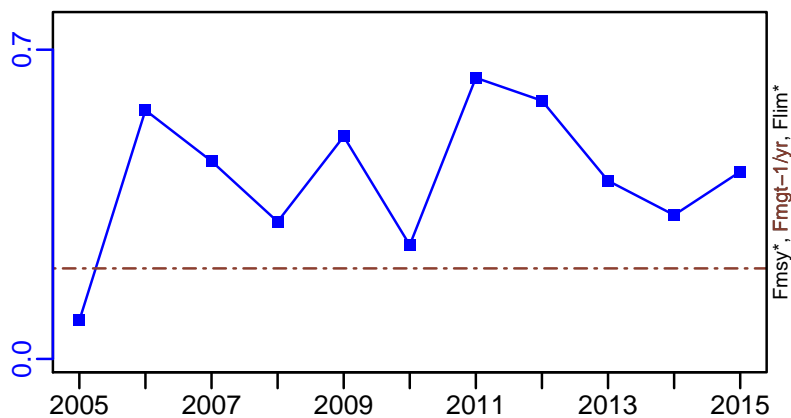
SSB-MT (2005–2015–OSIO)



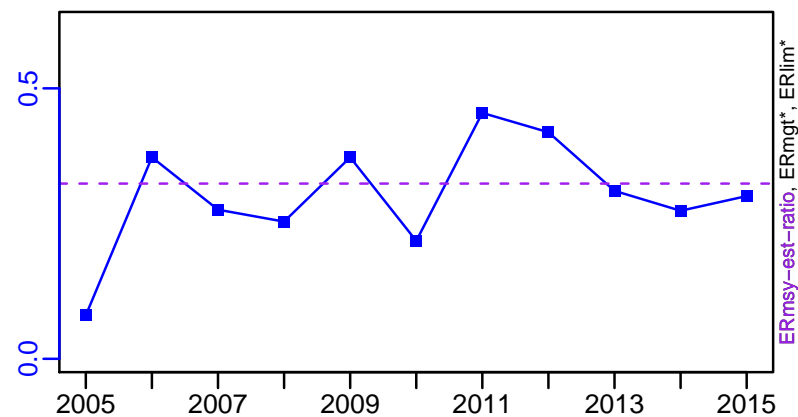
TN *



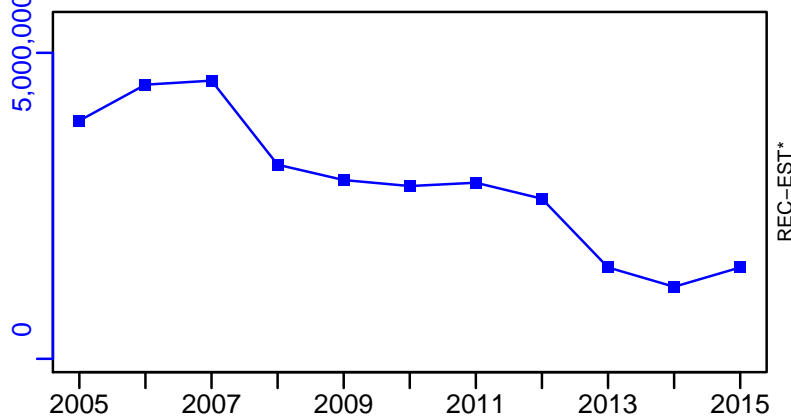
F-1/yr (2005–2015–OSIO)



ER-calc-ratio (2005–2015–OSIO)



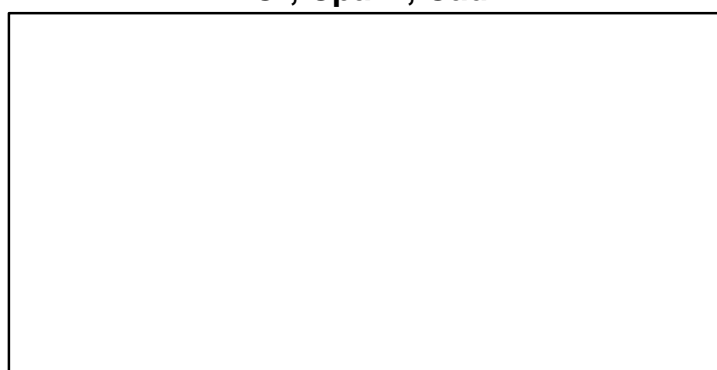
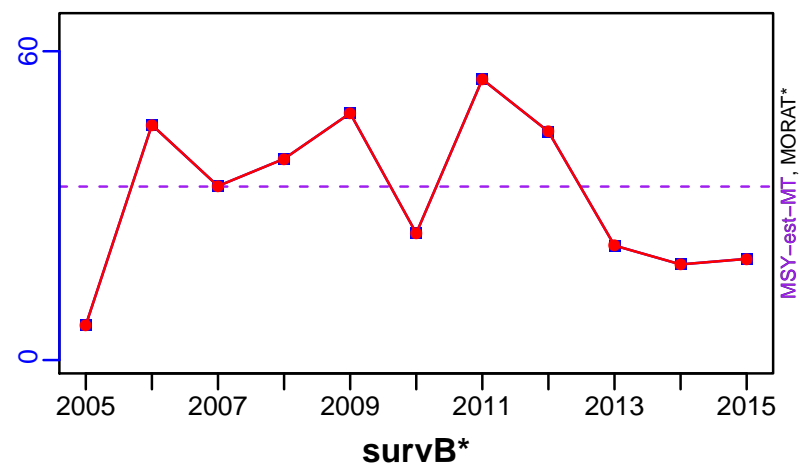
R-E00 (2005–2015–OSIO)



Norway lobster Sardinia [NEPHMEDGSA11]

TC-MT, TL-MT, RecC* (2005–2015–OSIO)

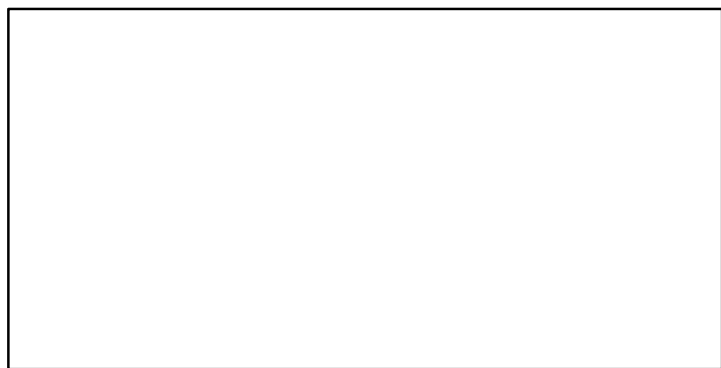
TAC*, Cpair*, Cadv*



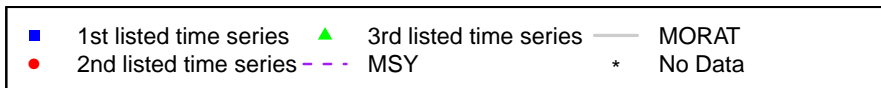
CPUE*



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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.2 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 1890 | - | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 22,400,000 | - | - |
| F | F-1/yr | 2012 | 0.15 | - | - |
| ER | ER-calc-ratio | 2012 | 0.099 | - | - |
| TC | TC-MT | 2012 | 444 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 0.75 | | |
| ER/ERmgt | - | - | - | | |

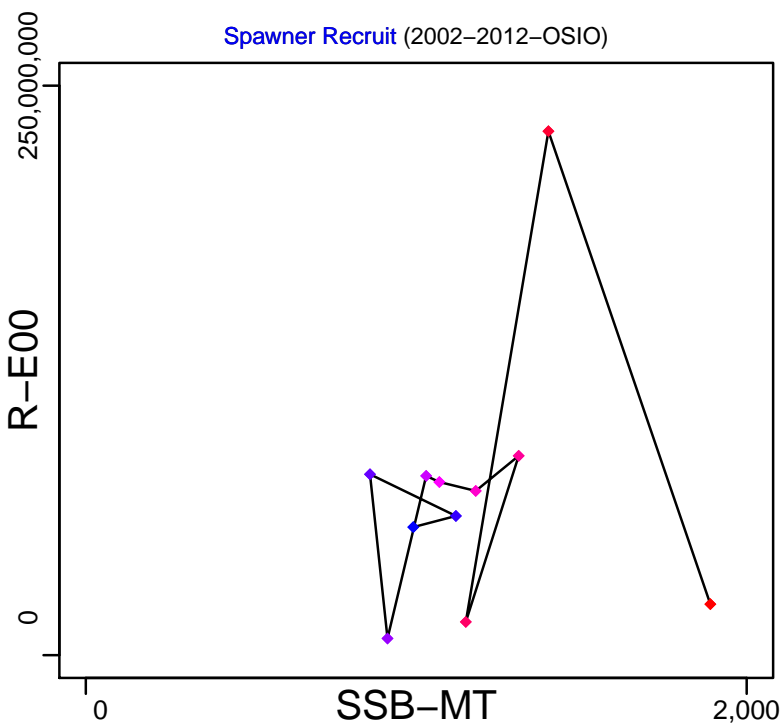
Kobe MSY*



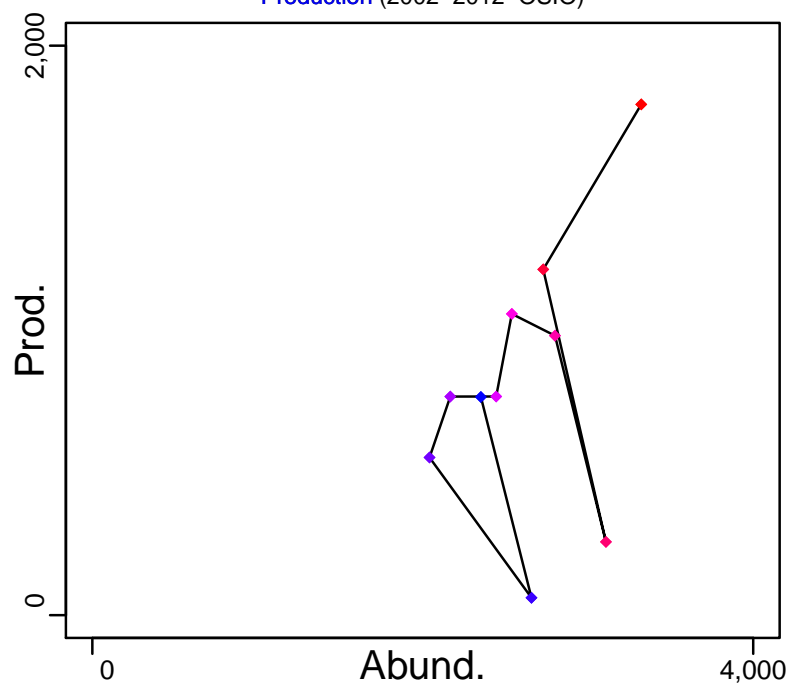
Kobe MGT*



Spawner Recruit (2002-2012-OSIO)



Production (2002-2012-OSIO)



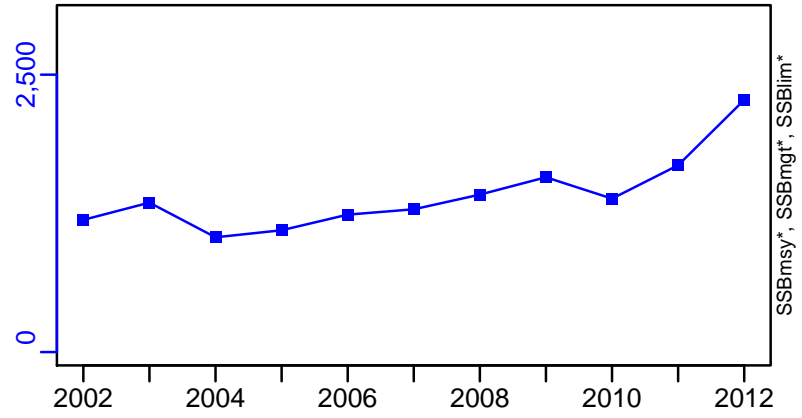
◆ Start Year ◆ End Year * No Data

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

TB*



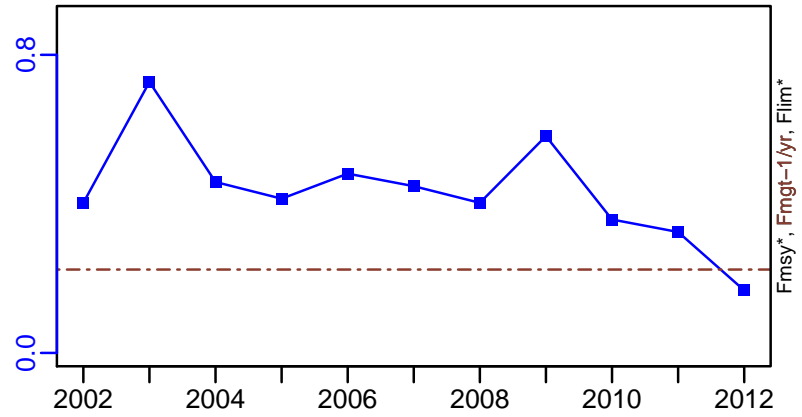
SSB-MT (2002-2012-OSIO)



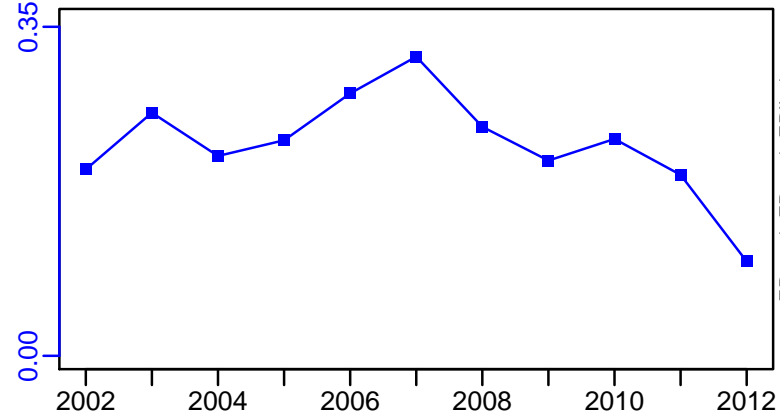
TN *



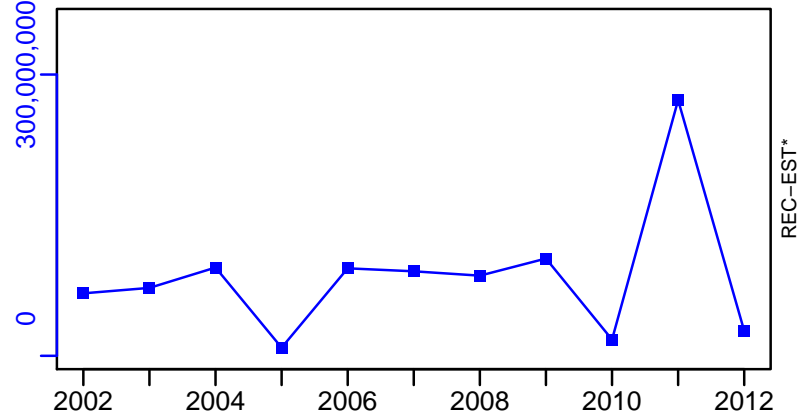
F-1/yr (2002-2012-OSIO)



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



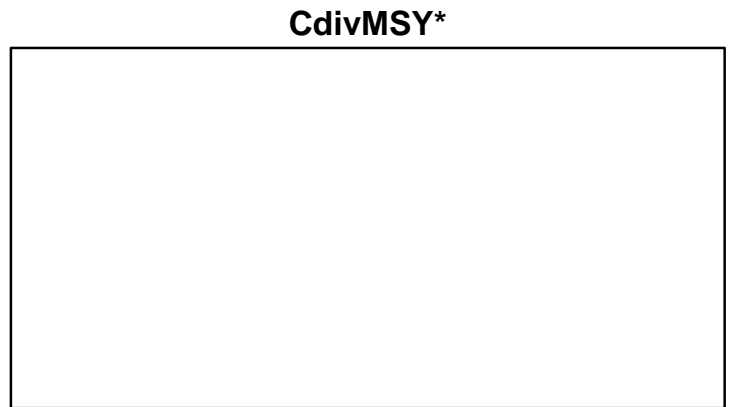
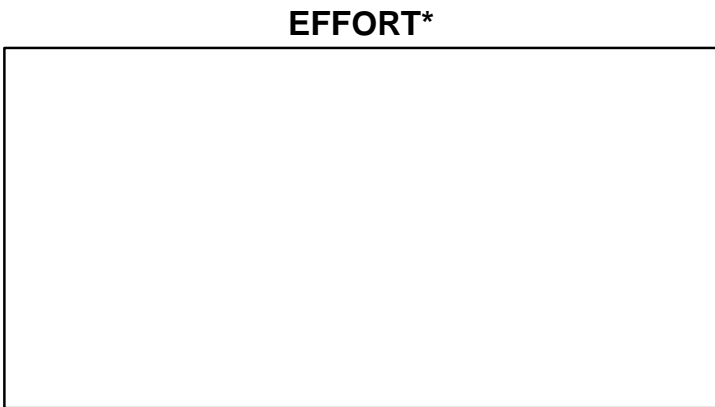
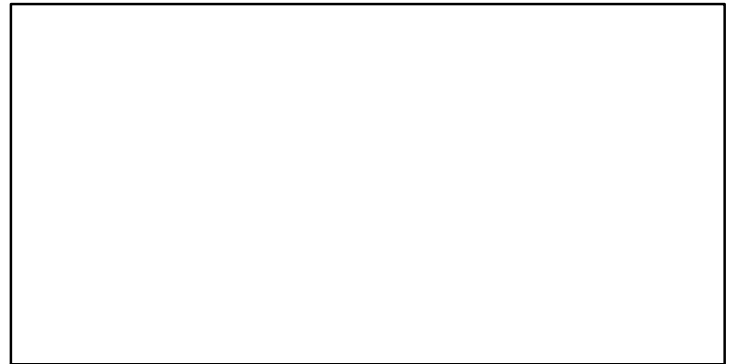
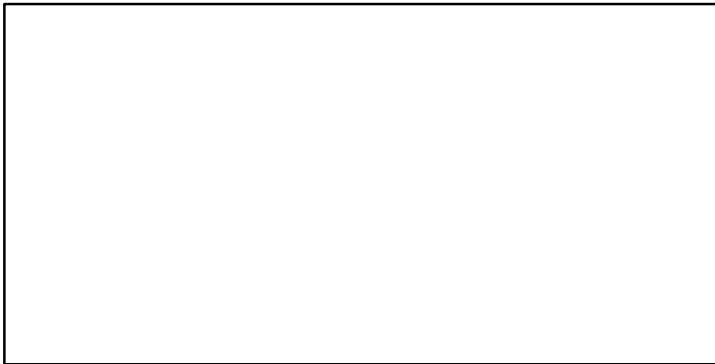
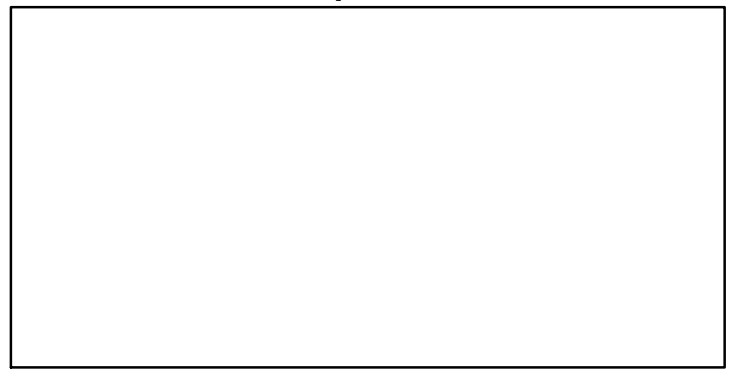
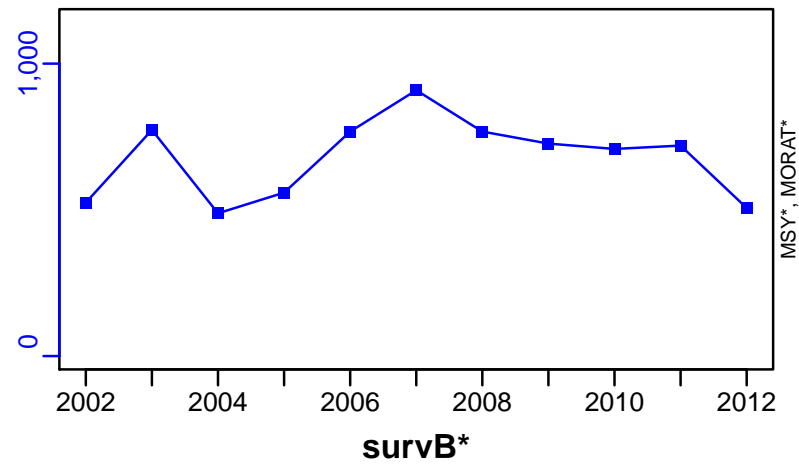
R-E00 (2002-2012-OSIO)



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]

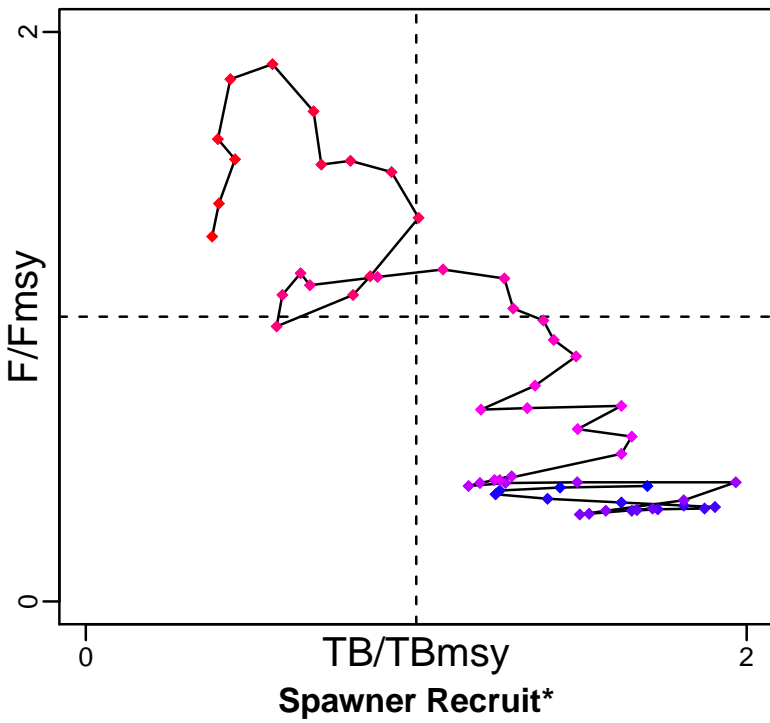
| Metadata | |
|-----------------------------|---|
| Scientific Name | Nephrops norvegicus |
| Current Assess ID | STECF-NEPHMEDGSA17-18-1960-2015-OSIO |
| Area | Adriatic Sea (GSA 17,18) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

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

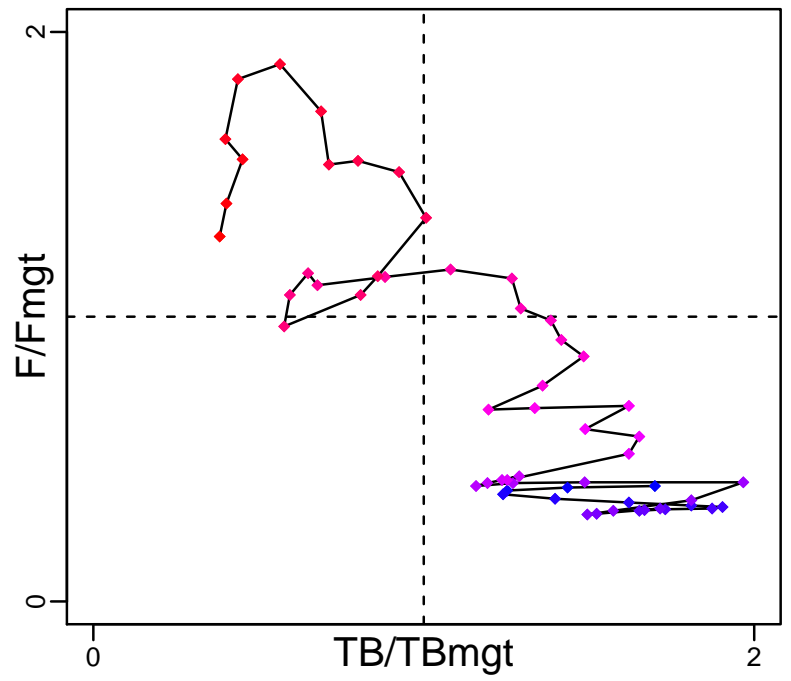
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 2430 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr |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

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

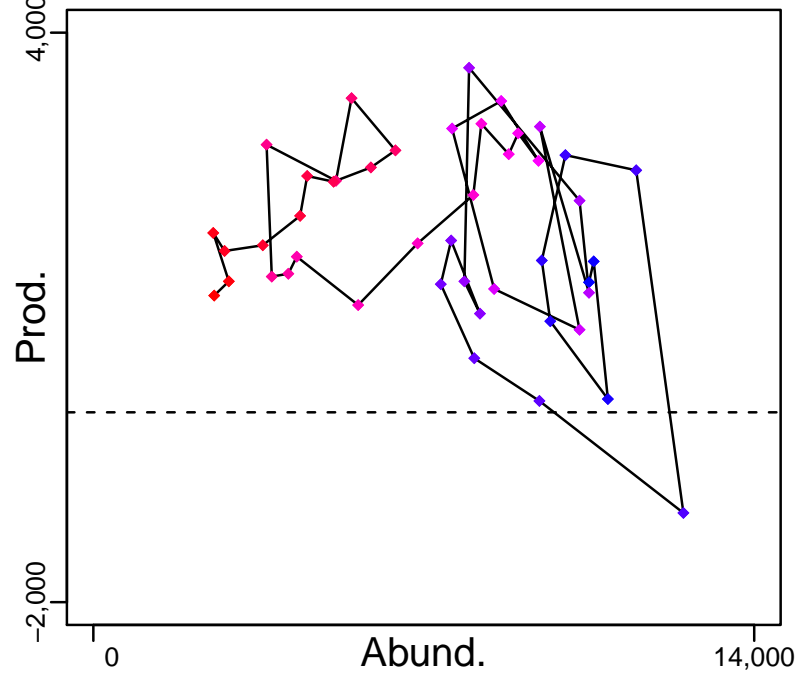
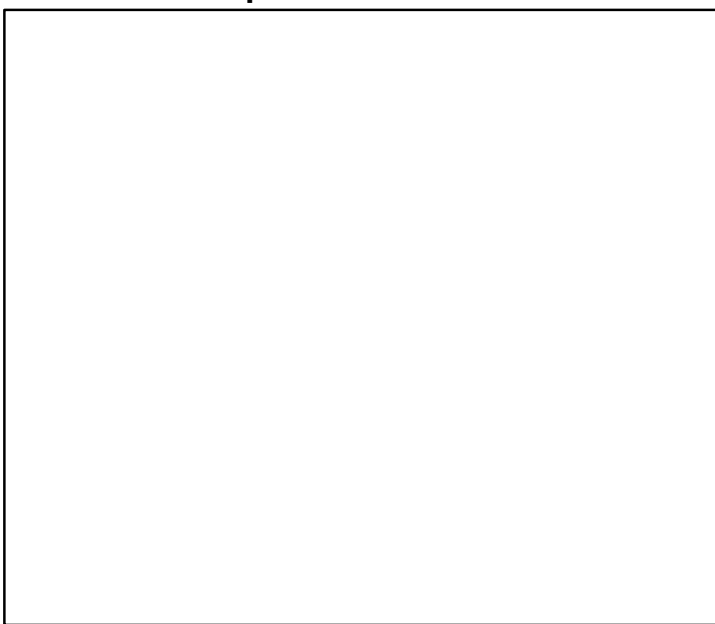
Kobe MSYpref (1960-2015-OSIO)



Kobe MGTpref (1960-2015-OSIO)



Production (1960-2015-OSIO)

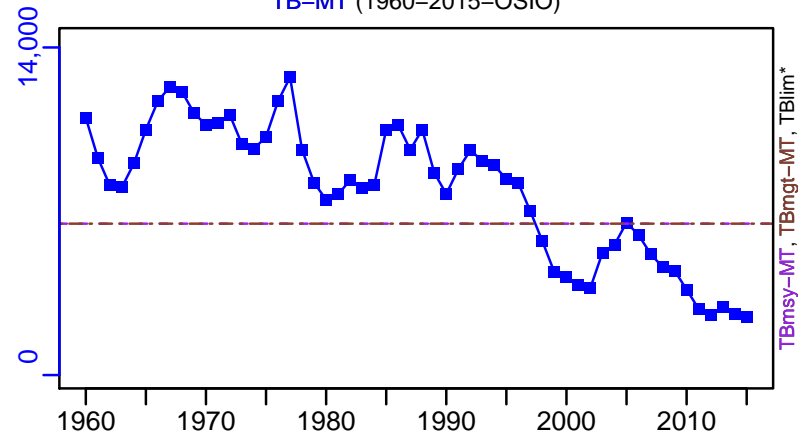


◆ Start Year ◆ End Year * No Data

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

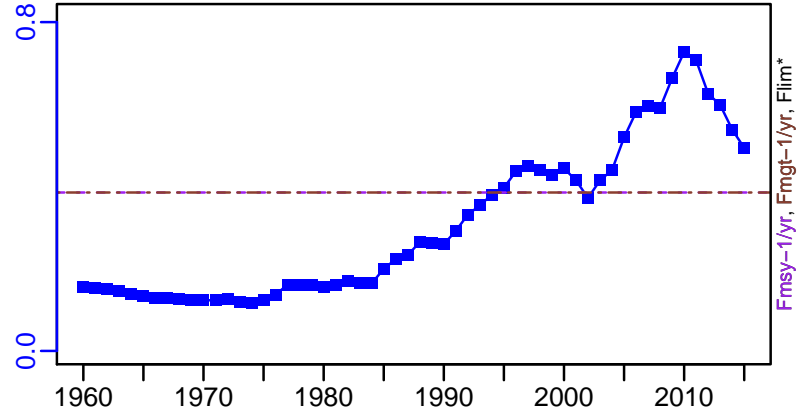
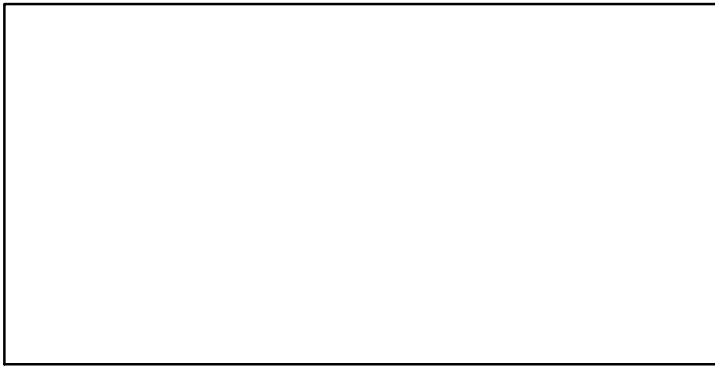
TB-MT (1960-2015-OSIO)

SSB*



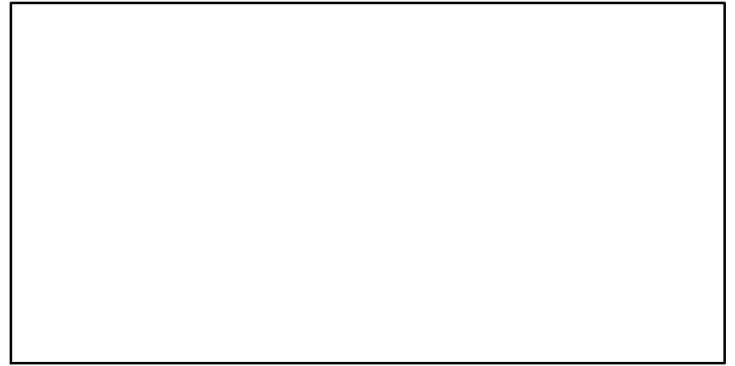
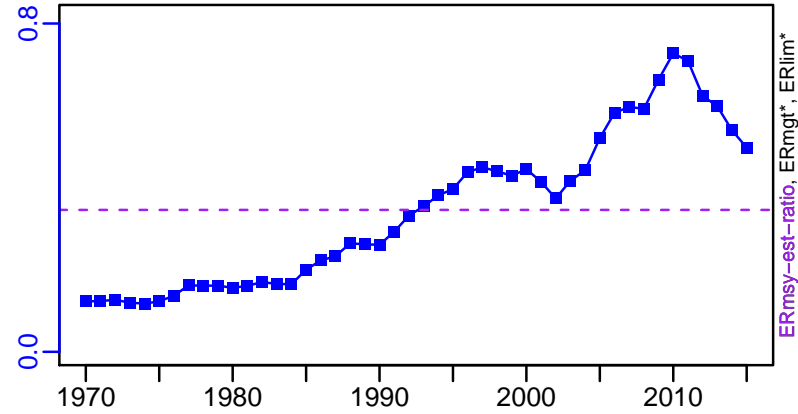
TN *

F-1/yr (1960-2015-OSIO)



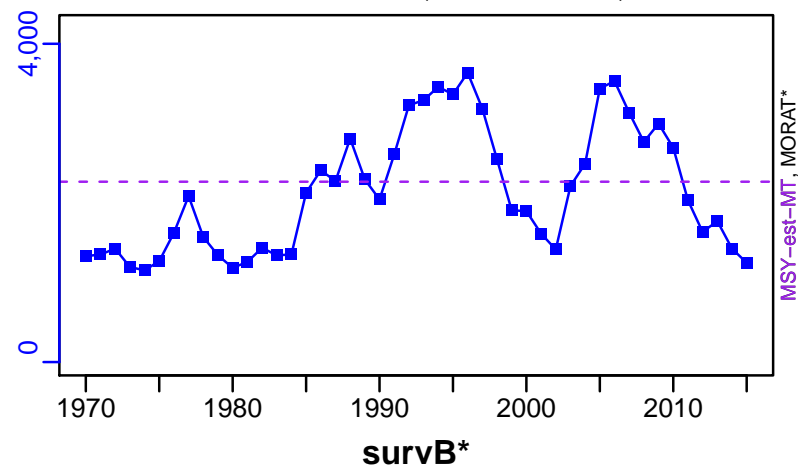
ER-calc-ratio (1960-2015-OSIO)

Recruits*



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

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



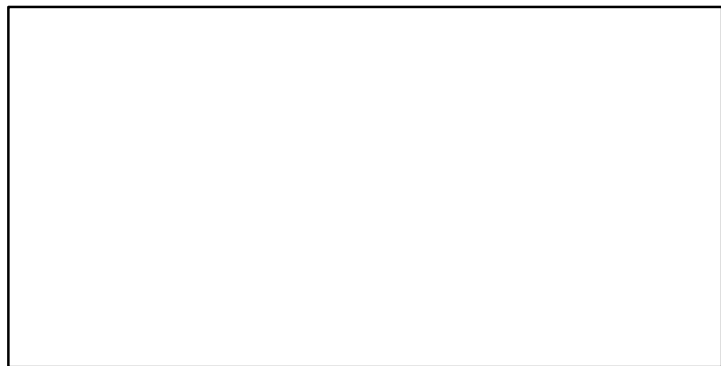
TAC*, Cpair*, Cadv*



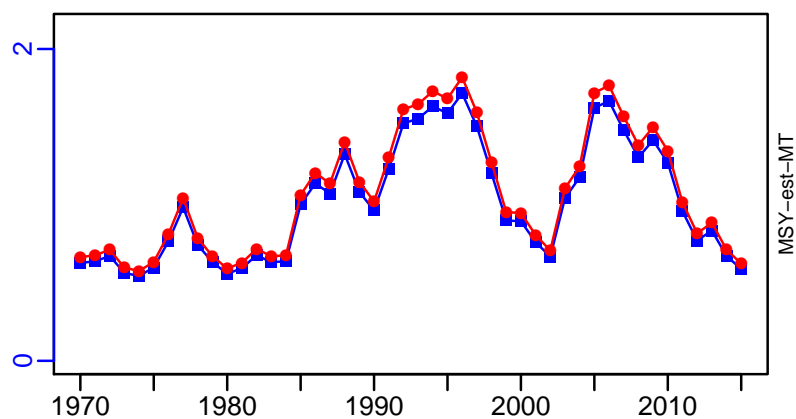
CPUE*



EFFORT*



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



Norway lobster Balearic Island [NEPHMEDGSA5]

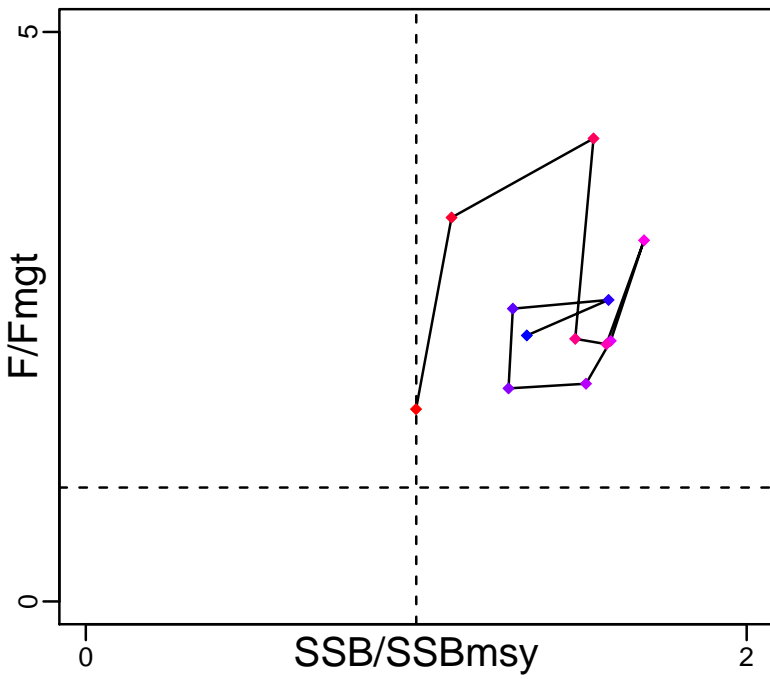
| Metadata | |
|-----------------------------|---|
| Scientific Name | Nephrops norvegicus |
| Current Assess ID | STECF-NEPHMEDGSA5-2002-2013-OSIO |
| Area | Balearic Island |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2011 | 157 |
| SSBmsy | SSBmsy-est-MT | 2013 | 31 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.326 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.17 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 23 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

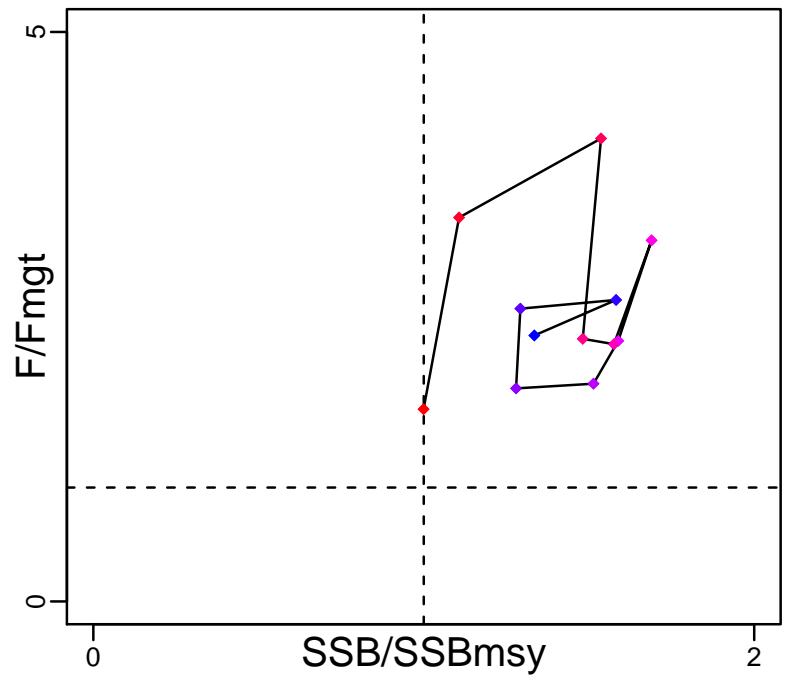
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 100 | - | - |
| SSB | SSB-MT | 2013 | 31 | - | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 1,620,000 | - | - |
| F | F-1/yr | 2013 | 0.287 | - | - |
| ER | ER-calc-ratio | 2013 | 0.135 | - | - |
| TC | TC-MT | 2013 | 10 | | |
| TL | TL-MT | 2011 | 32 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2011 | 0.639 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 0.999 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.413 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 1.688 | | |
| ER/ERmgt | - | - | - | | |

Norway lobster Balearic Island [NEPHMEDGSA5]

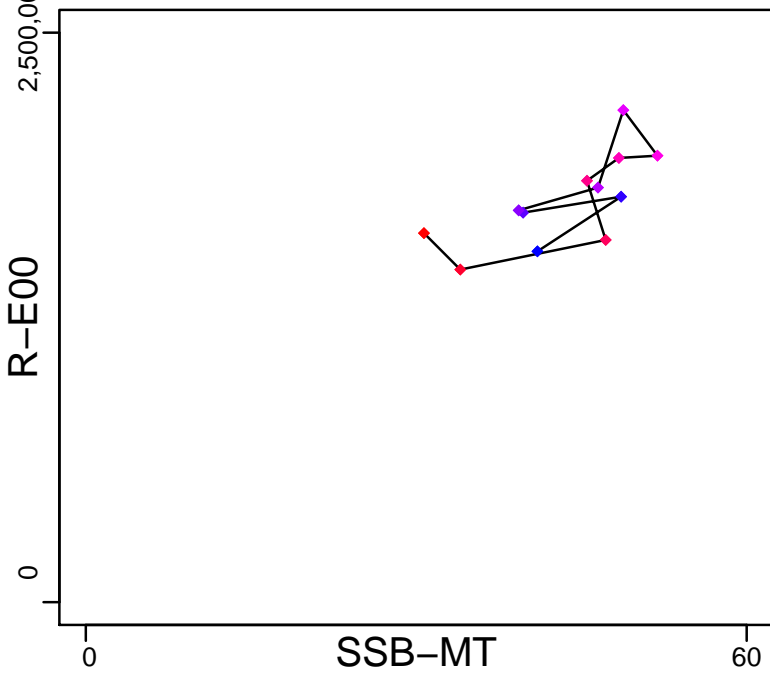
Kobe MSYpref (2002–2013–OSIO)



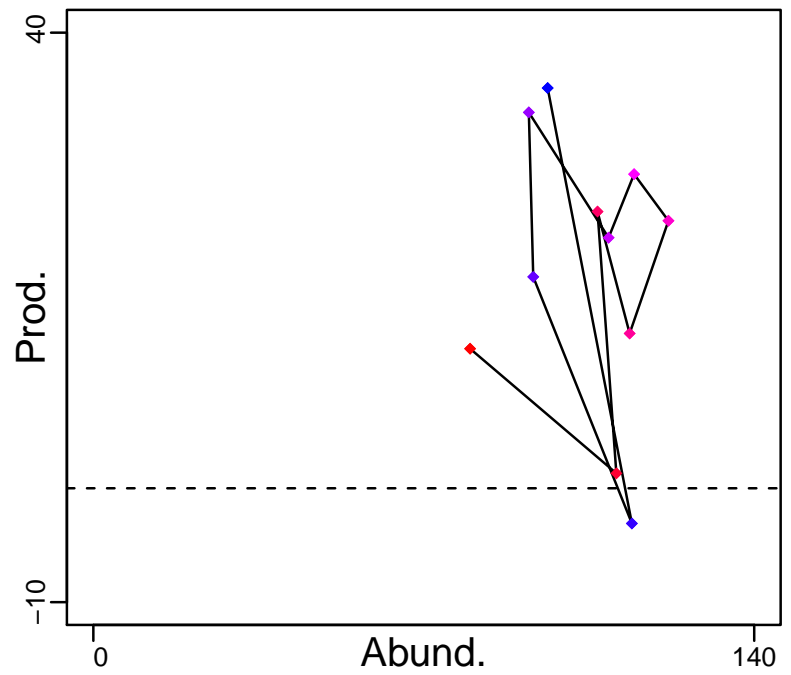
Kobe MGTpref (2002–2013–OSIO)



Spawner Recruit (2002–2013–OSIO)



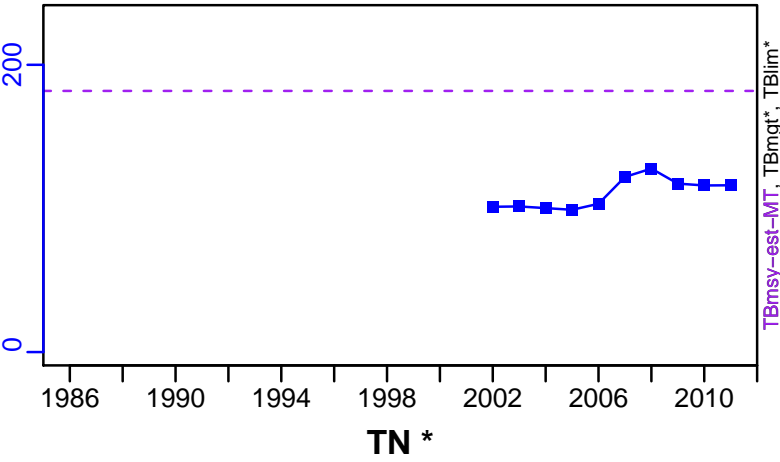
Production (2002–2013–OSIO)



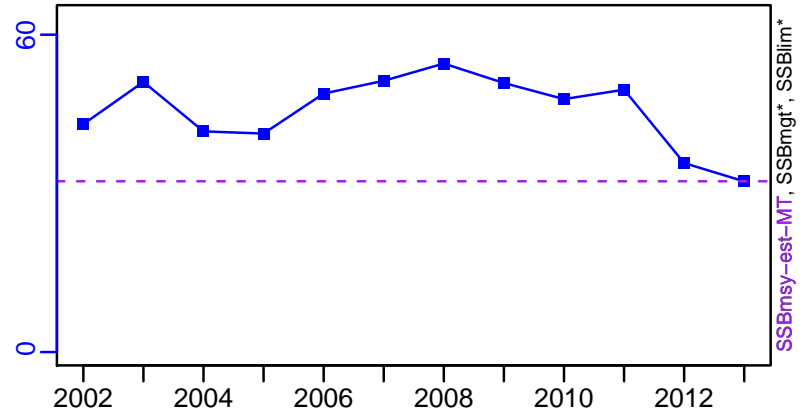
◆ Start Year ◆ End Year * No Data

Norway lobster Balearic Island [NEPHMEDGSA5]

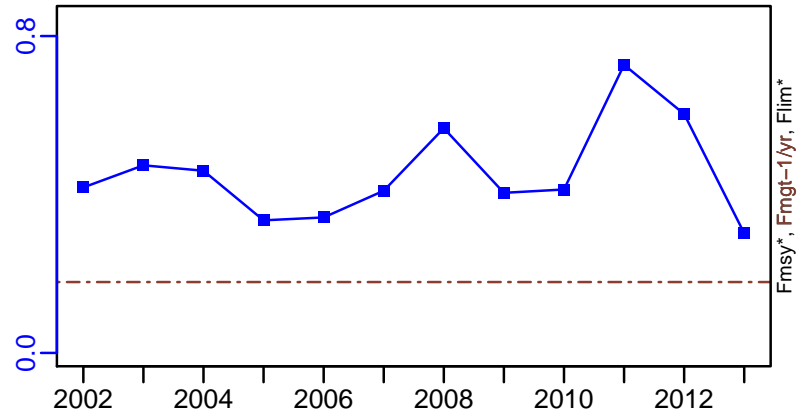
TB-MT (1986–2011–BANOB1)



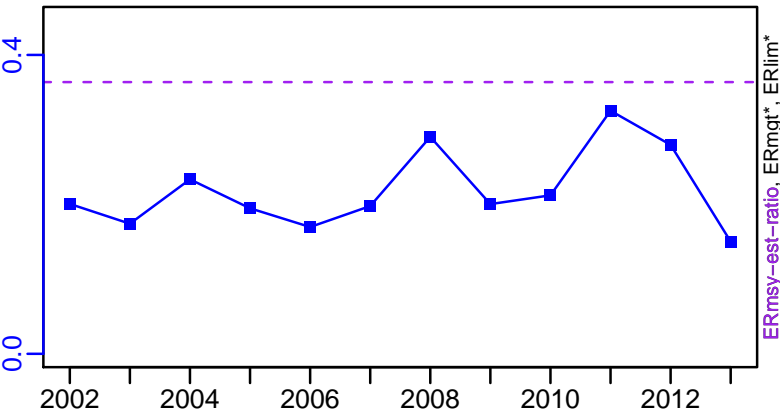
SSB-MT (2002–2013–OSIO)



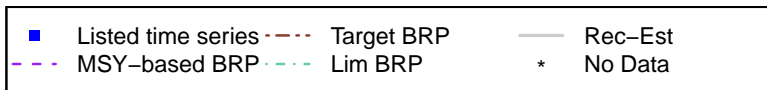
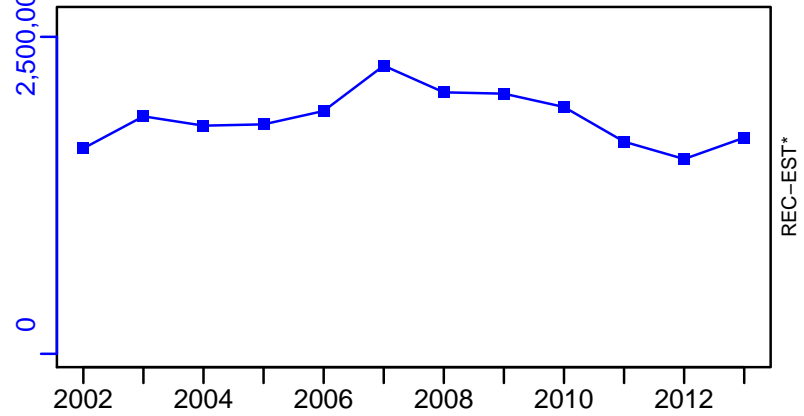
F-1/yr (2002–2013–OSIO)



ER-calc-ratio (2002–2013–OSIO)

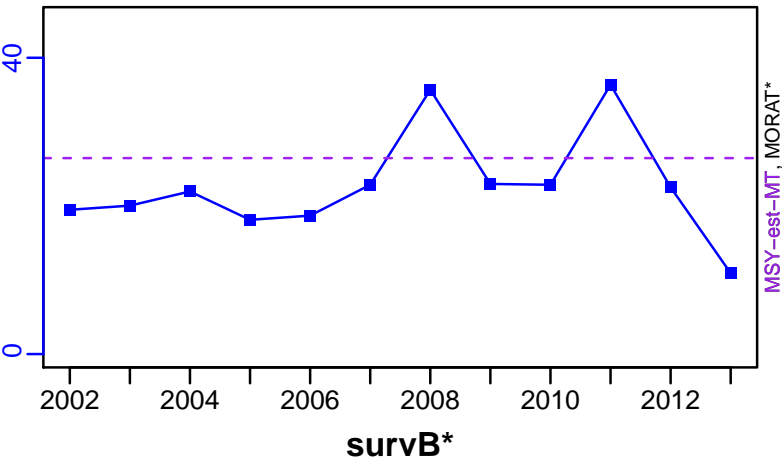


R-E00 (2002–2013–OSIO)



Norway lobster Balearic Island [NEPHMEDGSA5]

TC-MT, TL*, RecC* (2002–2013–OSIO)



TAC*, Cpair*, Cadv*



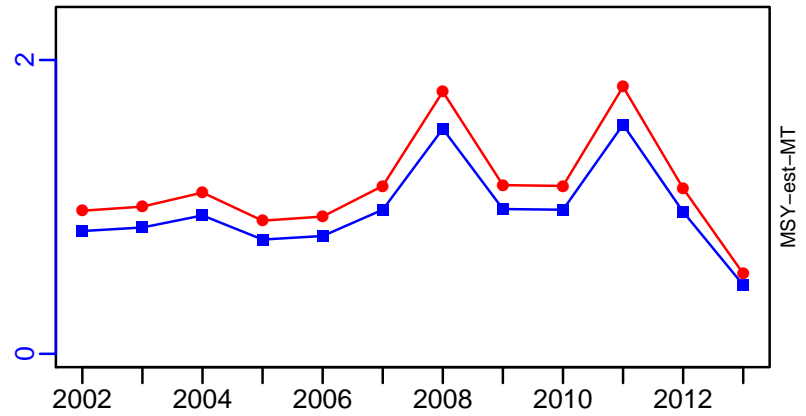
CPUE*



EFFORT*



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



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

Norway lobster Northern Spain [NEPHMEDGSA6]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.175 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 476 | - | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 59,700,000 | - | - |
| F | F-1/yr | 2015 | 1.66 | - | - |
| ER | ER-calc-ratio | 2011 | 0.439 | - | - |
| TC | TC-MT | 2011 | 497 | | |
| TL | TL-MT | 2015 | 355 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 9.486 | | |
| ER/ERmgt | - | - | - | | |

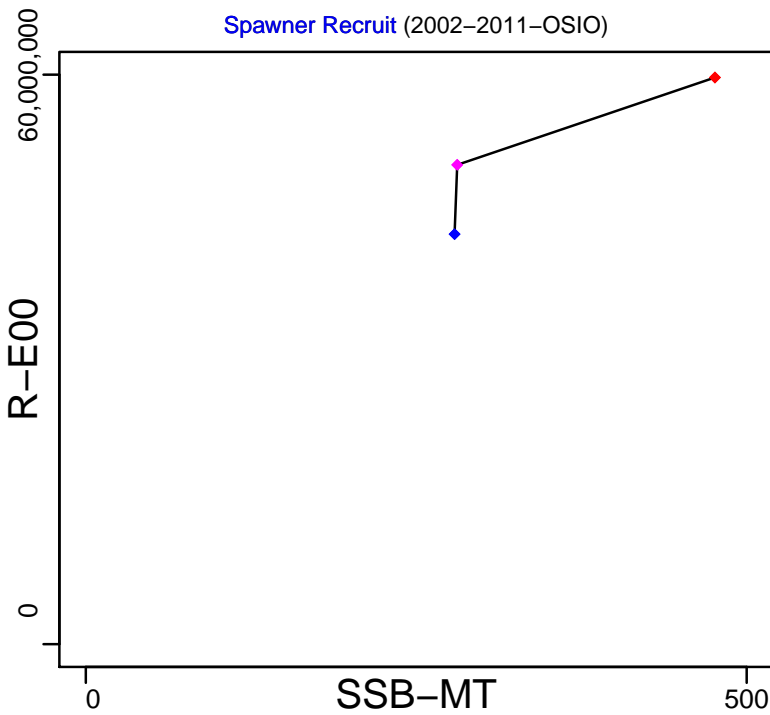
Kobe MSY*



Kobe MGT*



Spawner Recruit (2002–2011–OSIO)



Production*



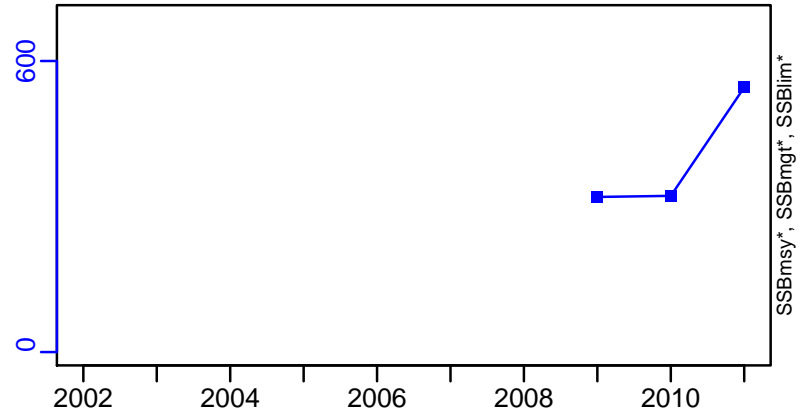
◆ Start Year ◆ End Year * No Data

Norway lobster Northern Spain [NEPHMEDGSA6]

TB*



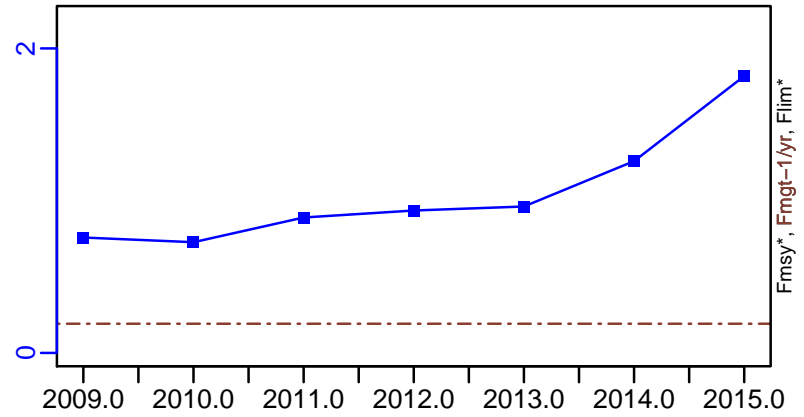
SSB-MT (2002–2011–OSIO)



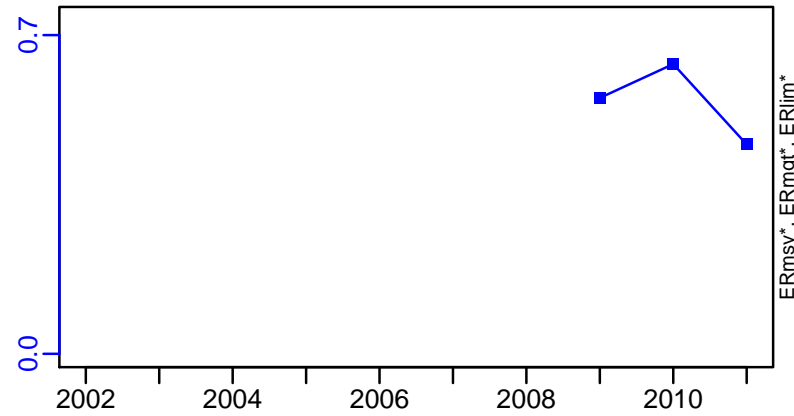
TN *



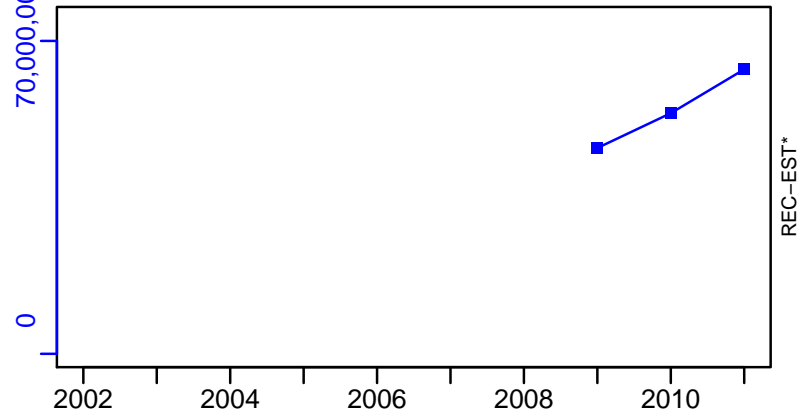
F-1/yr (2002–2015–OSIO)



ER-calc-ratio (2002–2011–OSIO)

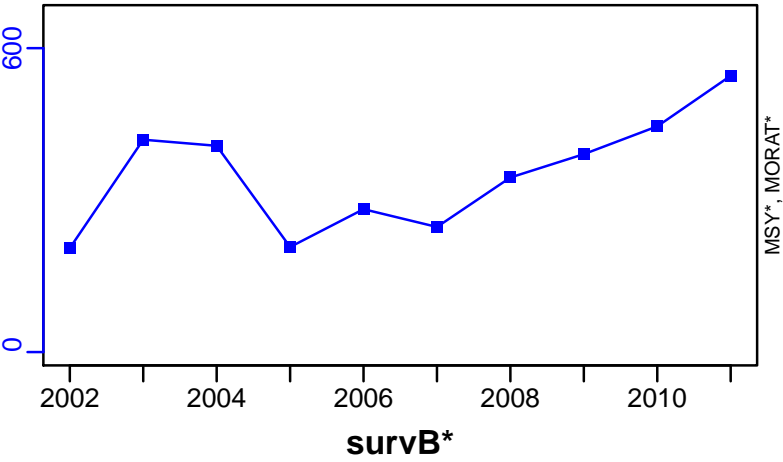


R-E00 (2002–2011–OSIO)



Norway lobster Northern Spain [NEPHMEDGSA6]

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



TAC*, Cpair*, Cadv*



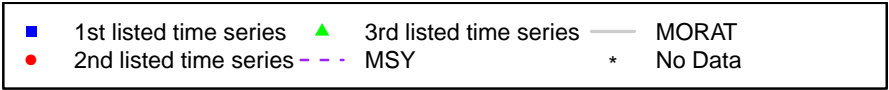
CPUE*



EFFORT*



CdivMSY*



Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

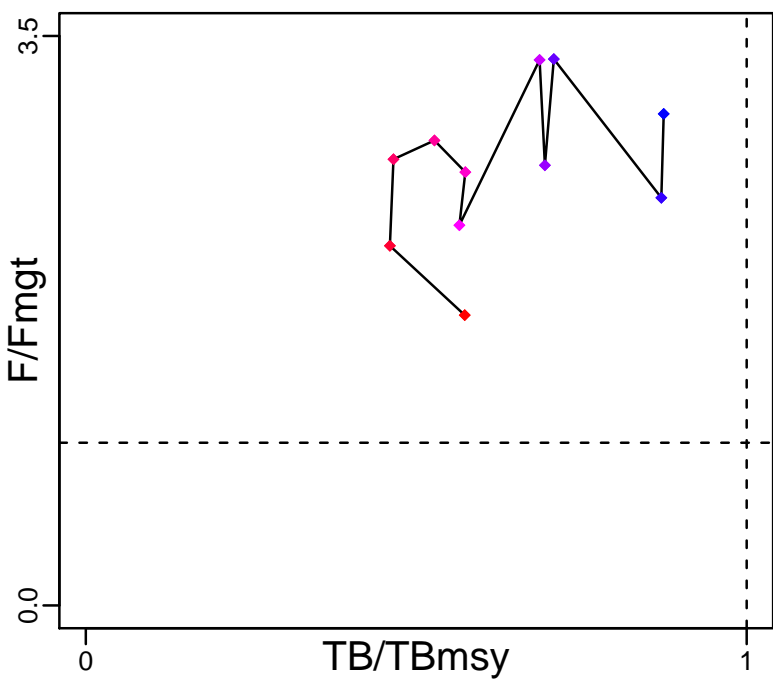
| Metadata | |
|-----------------------------|---|
| Scientific Name | Nephrops norvegicus |
| Current Assess ID | STECF-NEPHMEDGSA9-2005-2015-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
|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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2015 | 1113 |
| SSBmsy | SSBmsy-est-MT | 2013 | 811 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2015 | 0.149 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.19 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2015 | 165 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

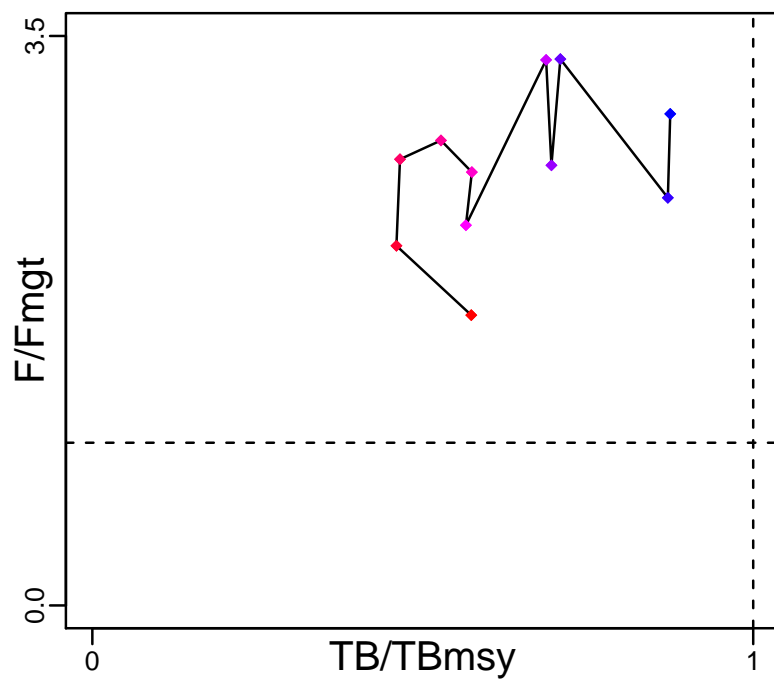
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 638 | - | - |
| SSB | SSB-MT | 2015 | 235 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 1.9×10^7 | - | - |
| F | F-1/yr | 2015 | 0.339 | - | - |
| ER | ER-calc-ratio | 2015 | 0.145 | - | - |
| TC | TC-MT | 2015 | 92 | | |
| TL | TL-MT | 2015 | 114 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2015 | 0.573 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 0.437 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2015 | 0.975 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 1.784 | | |
| ER/ERmgt | - | - | - | | |

Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

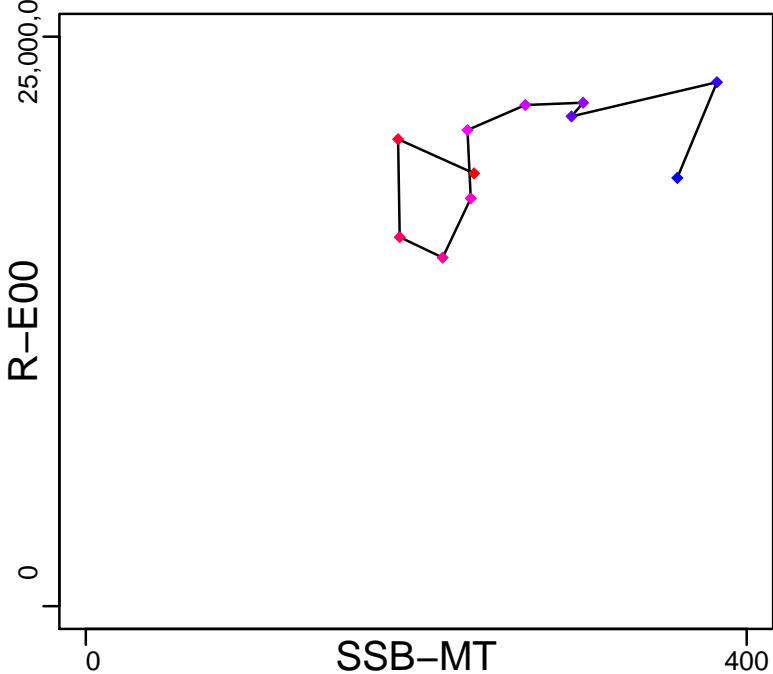
Kobe MSYpref (2005–2015–OSIO)



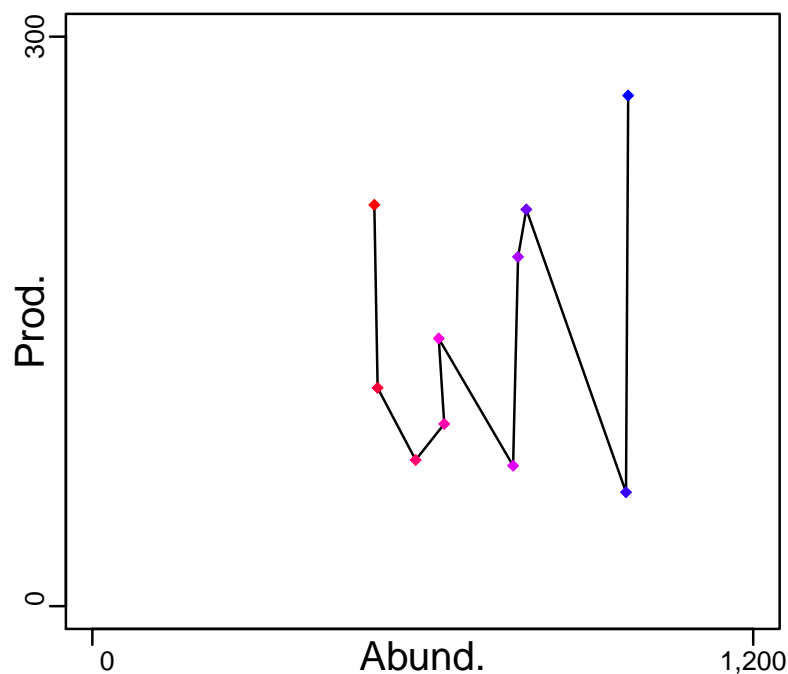
Kobe MGTpref (2005–2015–OSIO)



Spawner Recruit (2005–2015–OSIO)



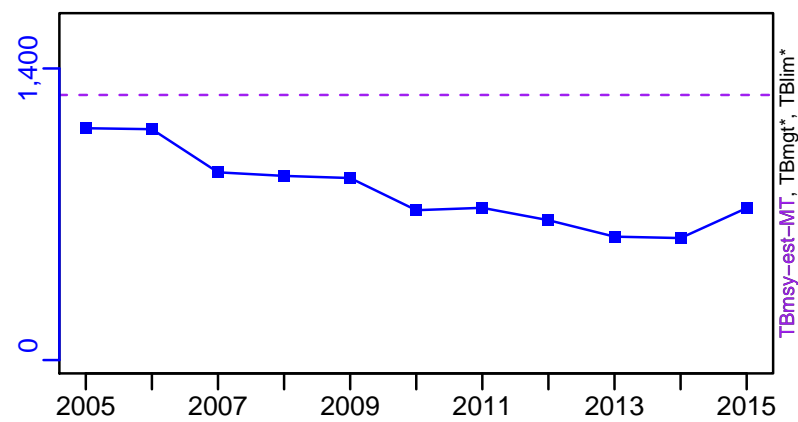
Production (2005–2015–OSIO)



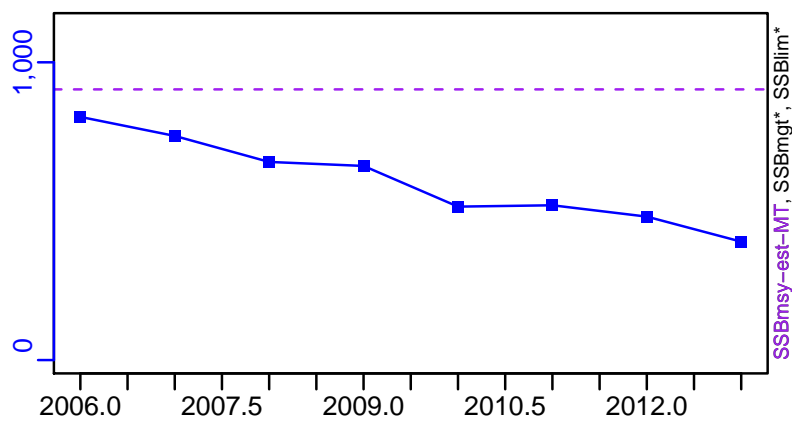
◆ Start Year ◆ End Year * No Data

Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

TB-MT (2005–2015–OSIO)



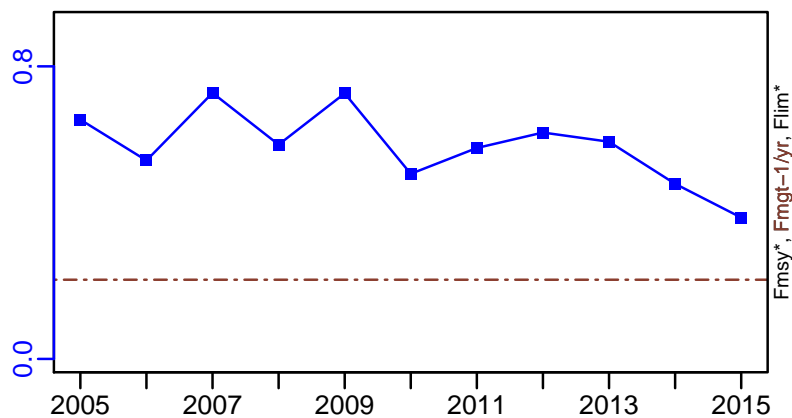
SSB-MT (2006–2013–OSIO)



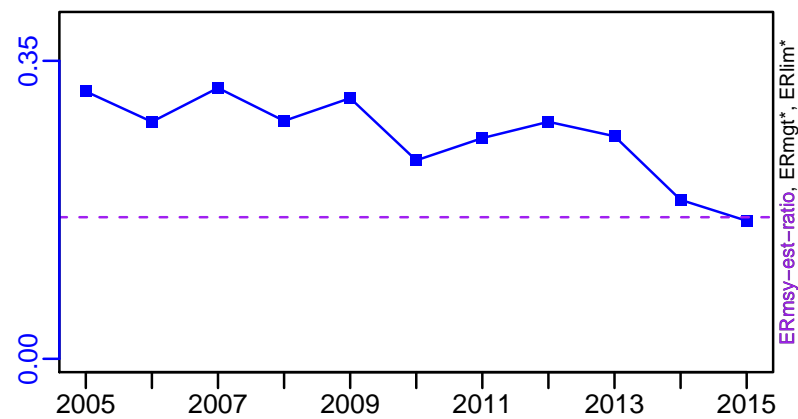
TN *



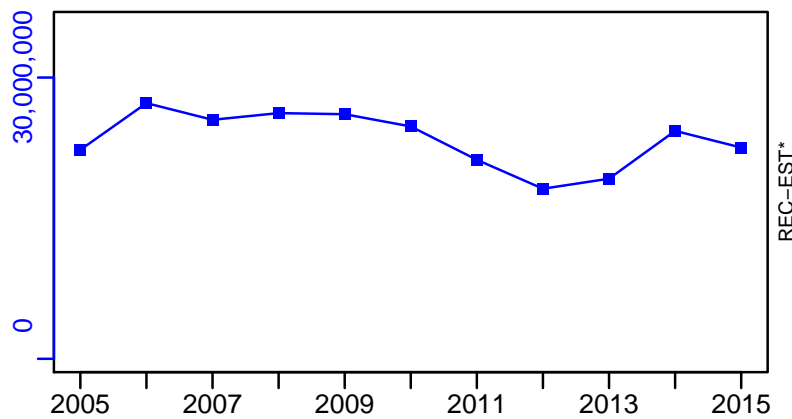
F-1/yr (2005–2015–OSIO)



ER-calc-ratio (2005–2015–OSIO)



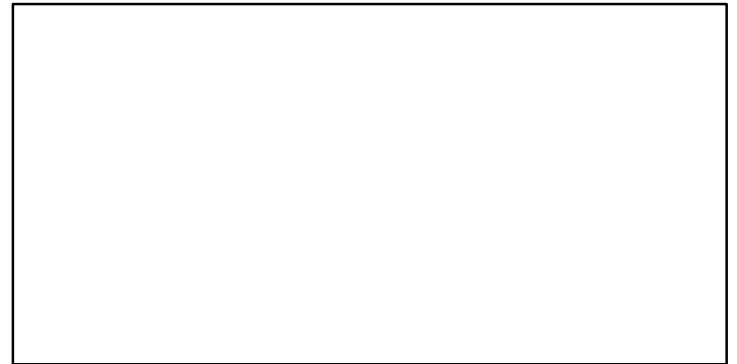
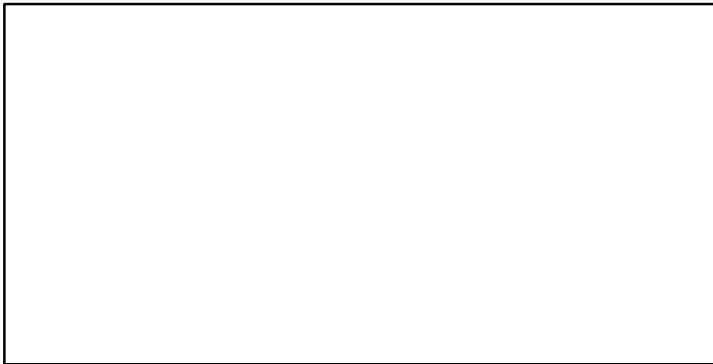
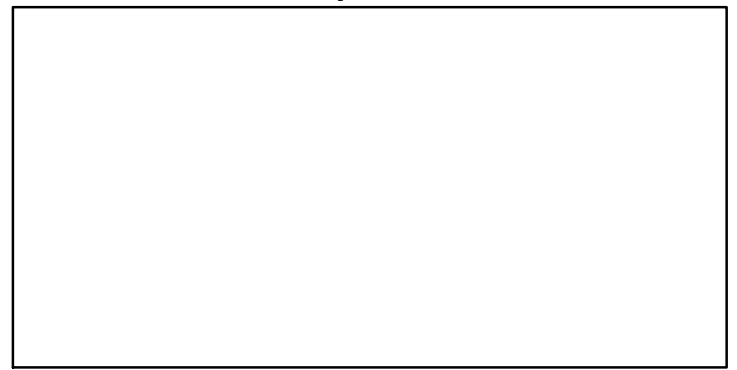
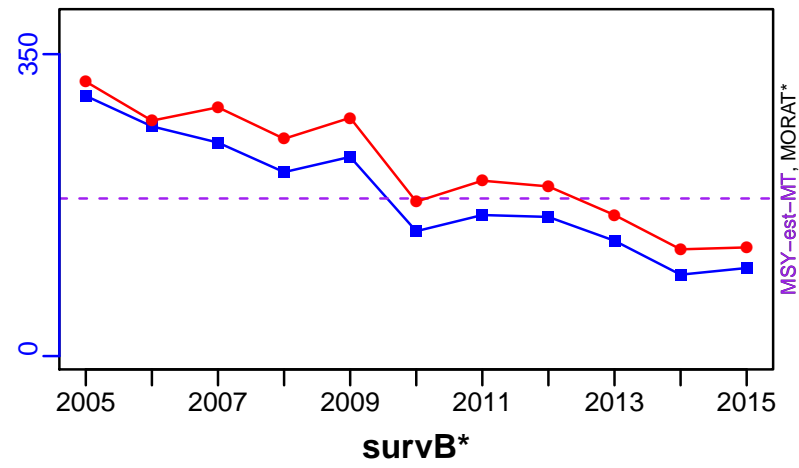
R-E00 (2005–2015–OSIO)



Norway lobster Ligurian and North Tyrrhenian Sea [NEPHMEDGSA9]

TC-MT, TL-MT, RecC* (2005–2015–OSIO)

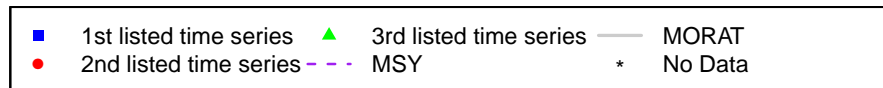
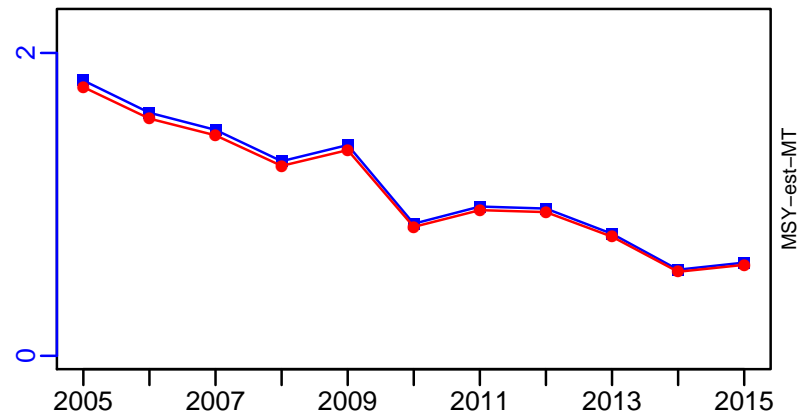
TAC*, Cpair*, Cadv*



EFFORT*



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



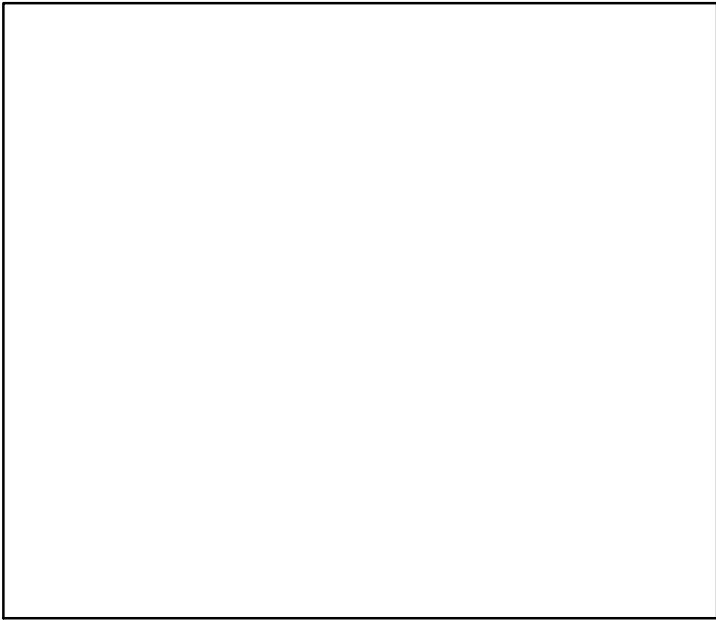
Picarel Cyprus Island [PICAMEDGSA25]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Spicara smaris |
| Current Assess ID | STECF-PICAMEDGSA25-2005-2010-OSIO |
| Area | Cyprus Island |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2010 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2010 | 0.31 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2010 | 1350 | - | 0+ |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr | 2010 | 0.08 | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2010 | 245 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2010 | 0.258 | | |
| ER/ERmgt | - | - | - | | |

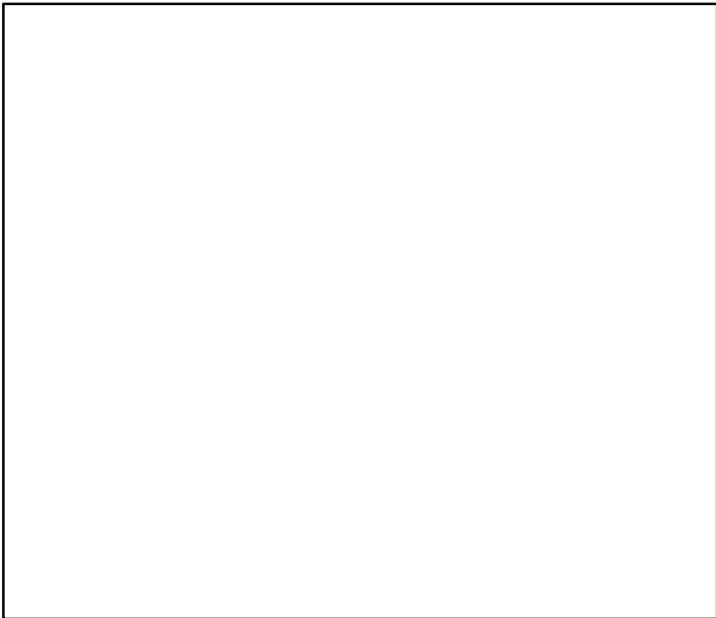
Kobe MSY*



Kobe MGT*



Spawner Recruit*

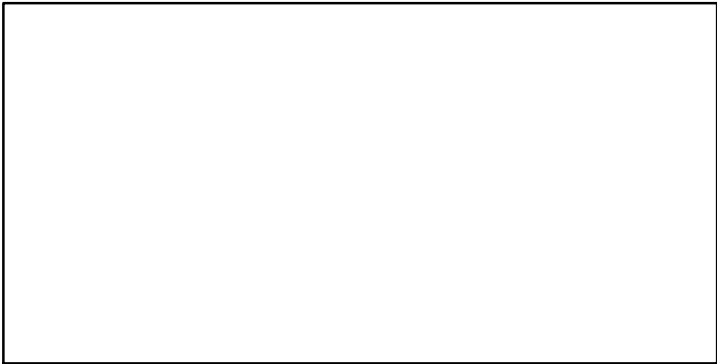


Production*

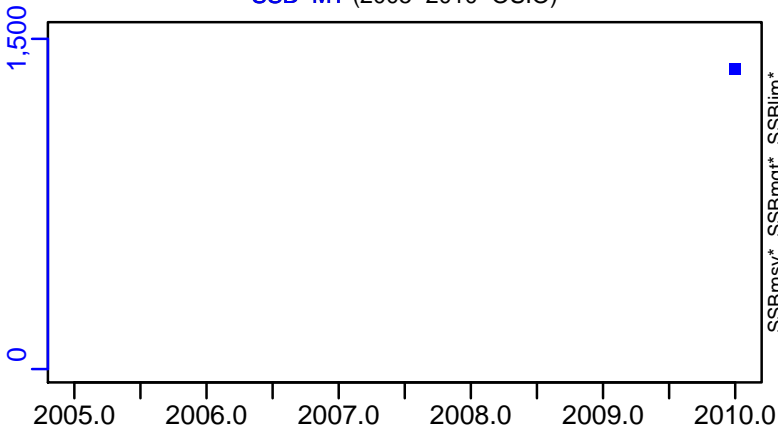


◆ Start Year ◆ End Year * No Data

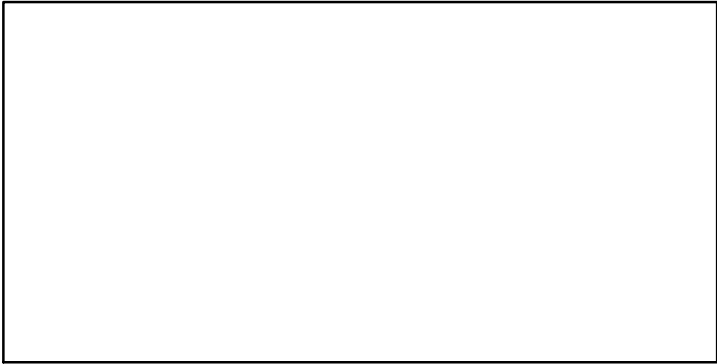
TB*



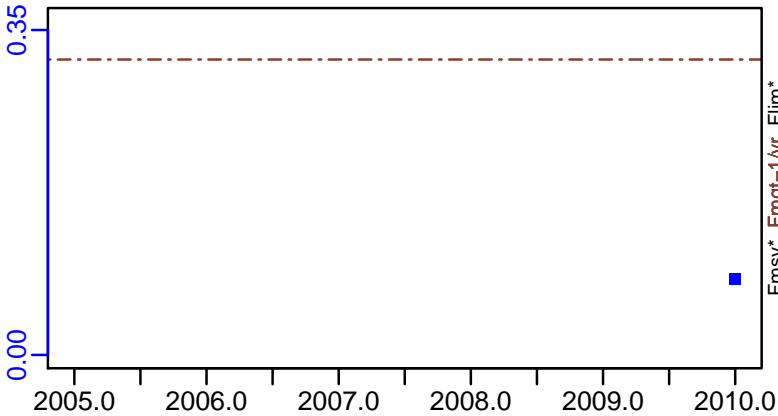
SSB-MT (2005–2010–OSIO)



TN *



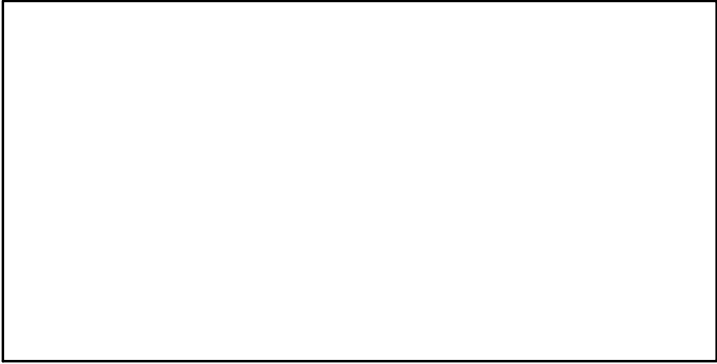
F-1/yr (2005–2010–OSIO)



ER*



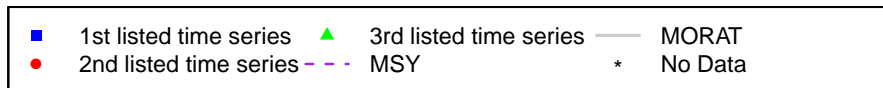
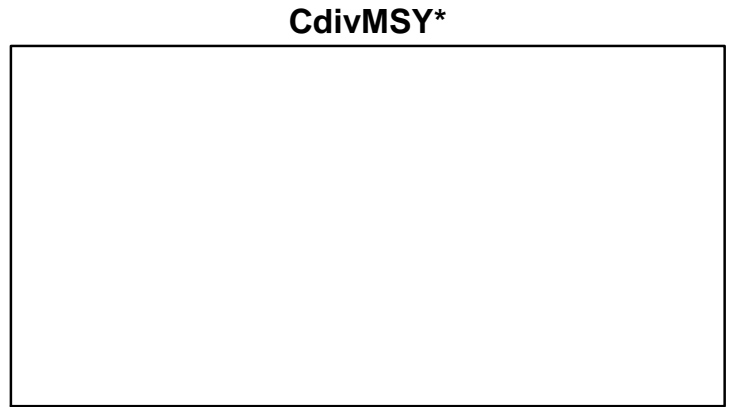
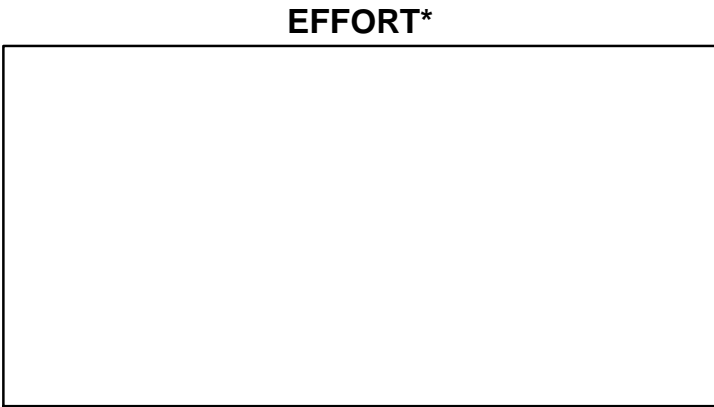
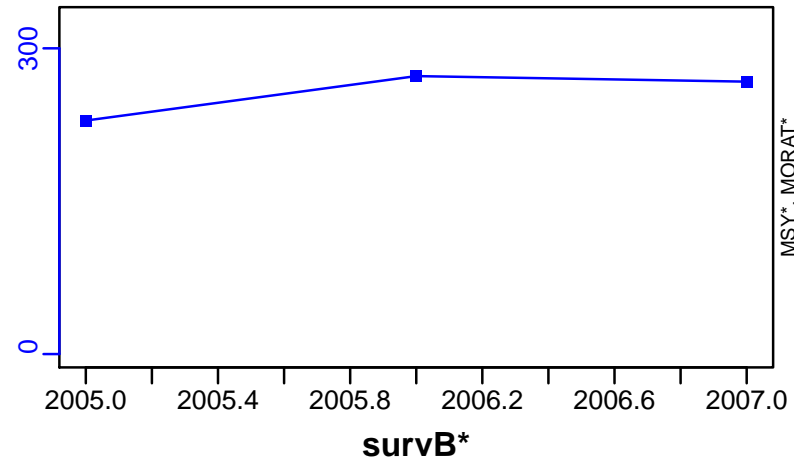
Recruits*



Picarel Cyprus Island [PICAMEDGSA25]

TC-MT, TL*, RecC* (2005–2010–OSIO)

TAC*, Cpair*, Cadv*



Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.74 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|-----------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 163 | - | 0+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 3×10^6 | - | - |
| F | F-1/yr | 2011 | 0.9 | - | - |
| ER | ER-calc-ratio | 2011 | 0.251 | - | - |
| TC | TC-MT | 2011 | 105 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 1.216 | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



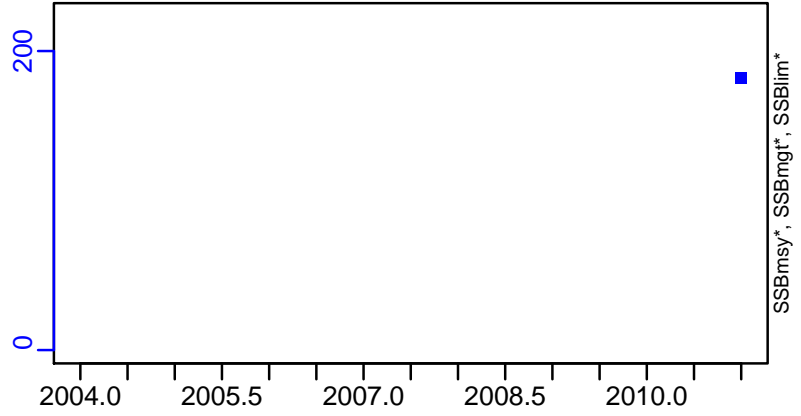
◆ Start Year ◆ End Year * No Data

Poor cod Ligurian and North Tyrrhenian Sea [PRCODMEDGSA9]

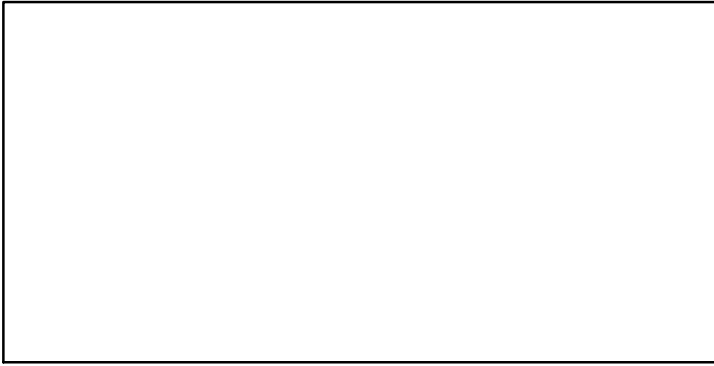
TB*



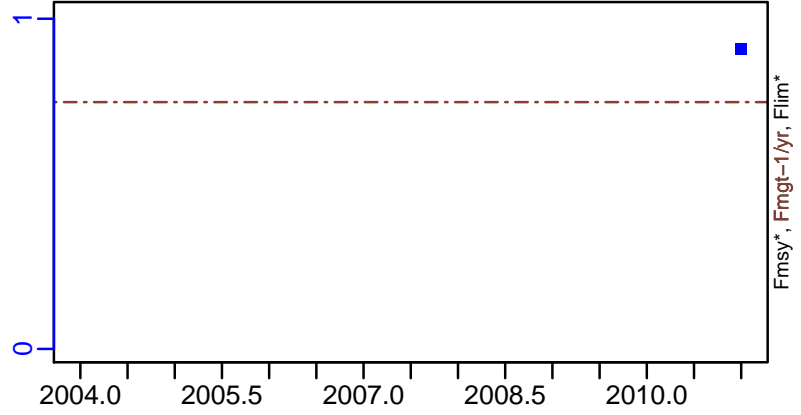
SSB-MT (2004–2011–OSIO)



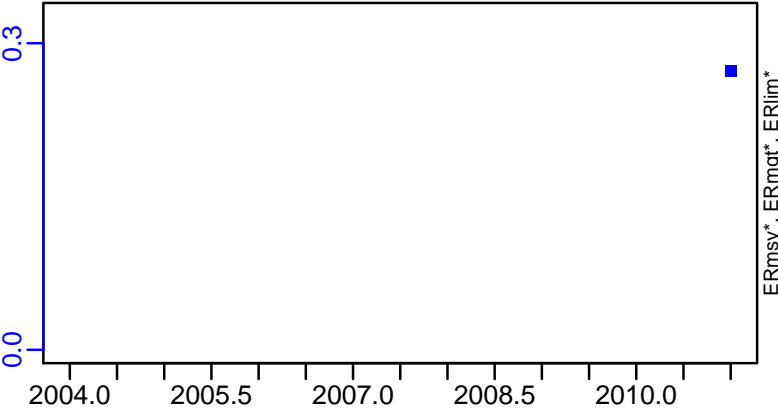
TN *



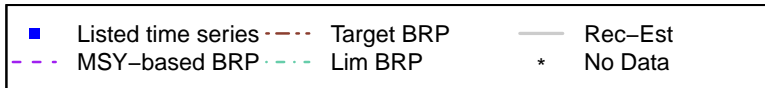
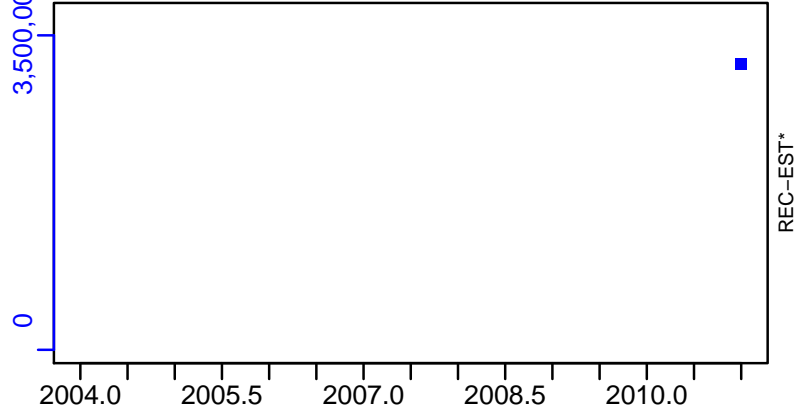
F-1/yr (2004–2011–OSIO)



ER-calc-ratio (2004–2011–OSIO)



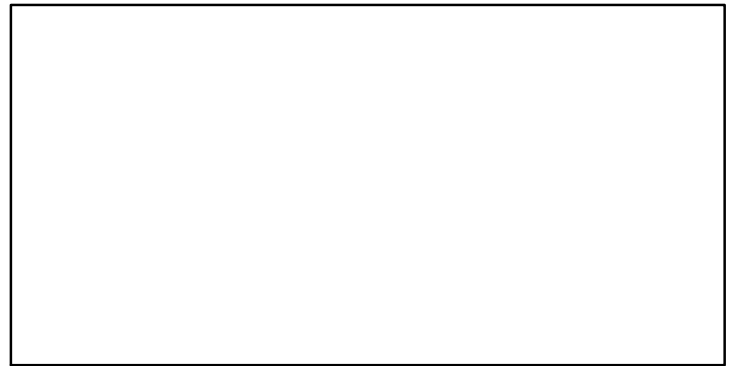
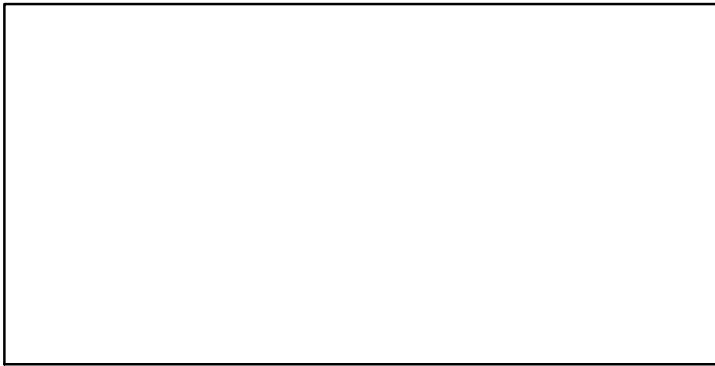
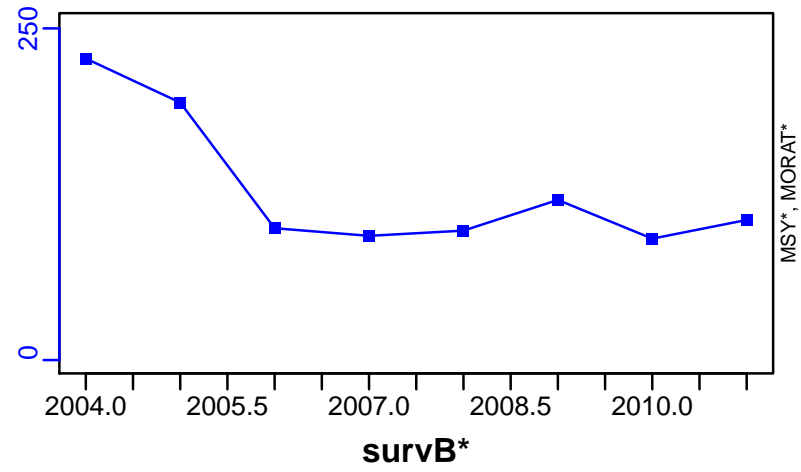
R-E00 (2004–2011–OSIO)



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]

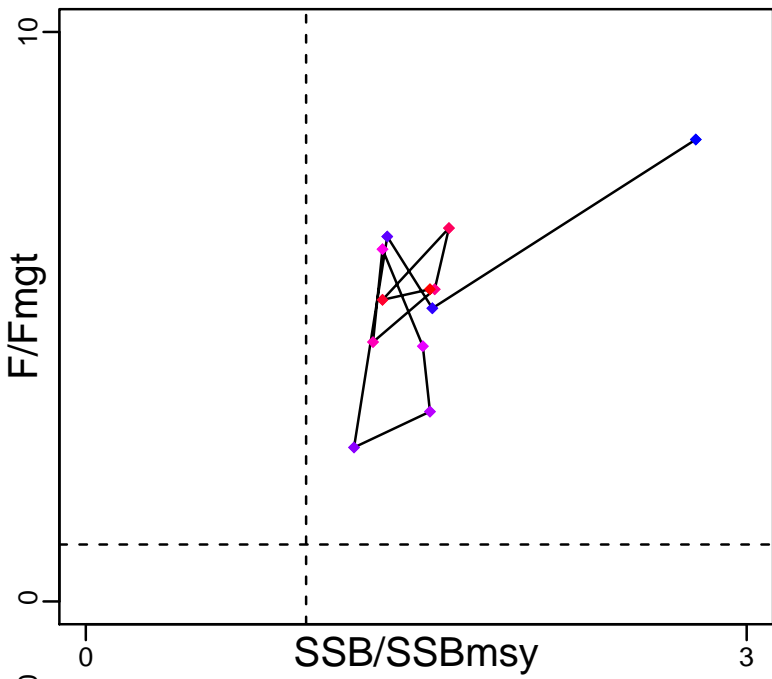
| Metadata | |
|-----------------------------|---|
| Scientific Name | Parapenaeus longirostris |
| Current Assess ID | STECF-PSHRMPMEDGSA6-2001-2012-OSIO |
| Area | Northern Spain |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor |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

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

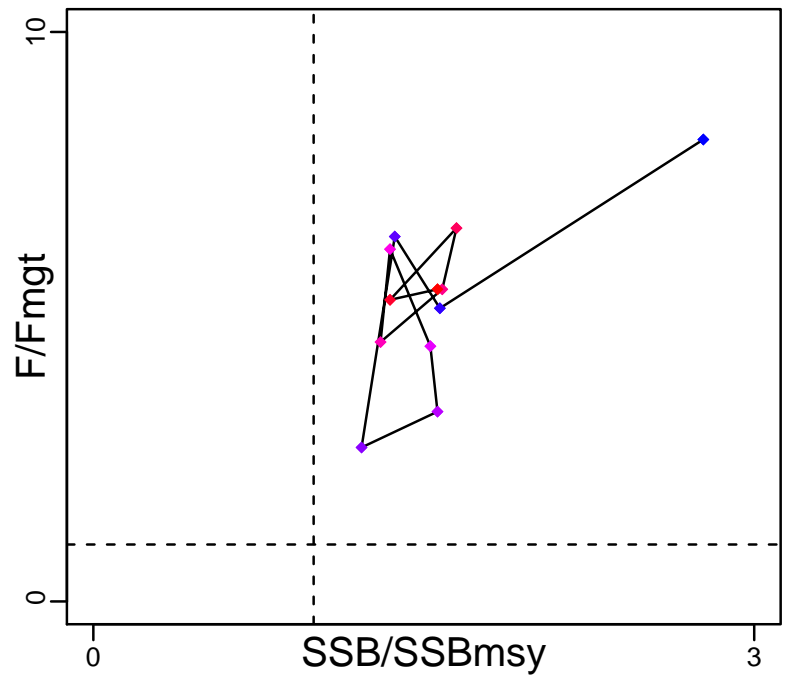
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 145 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 1.26×10^8 |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

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

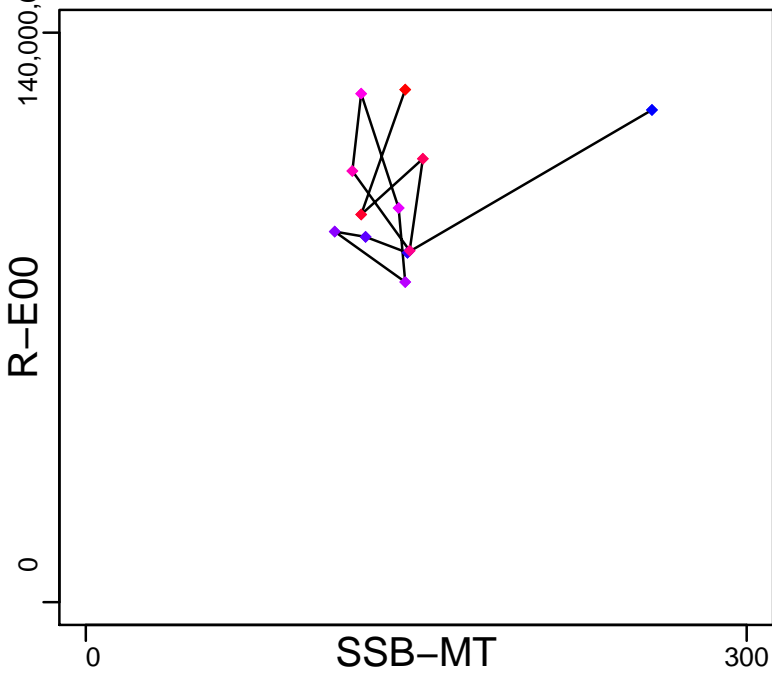
Kobe MSYpref (2001–2012–OSIO)



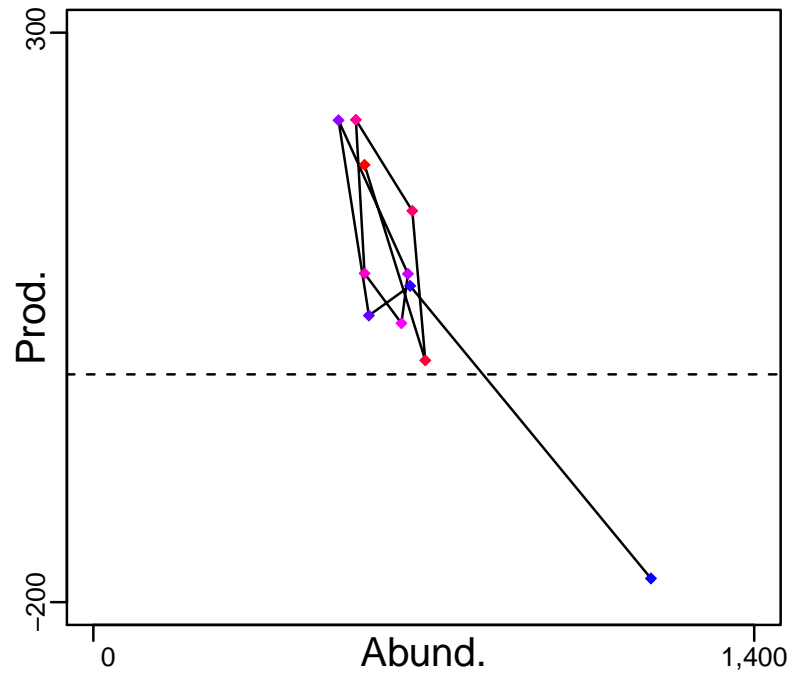
Kobe MGTpref (2001–2012–OSIO)



Spawner Recruit (2001–2012–OSIO)



Production (2001–2012–OSIO)



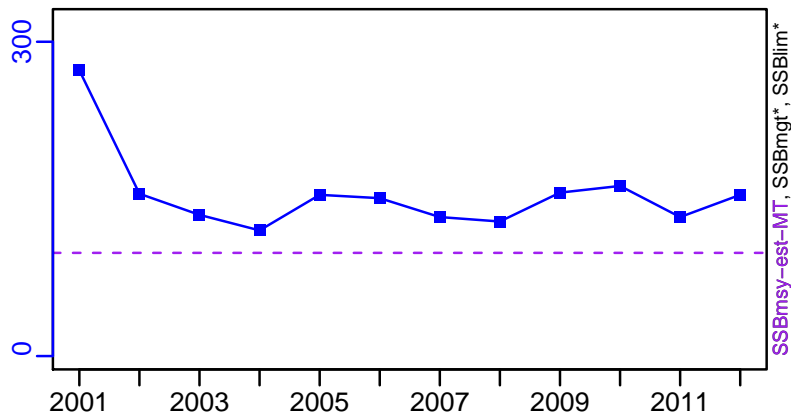
◆ Start Year ◆ End Year * No Data

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

TB*



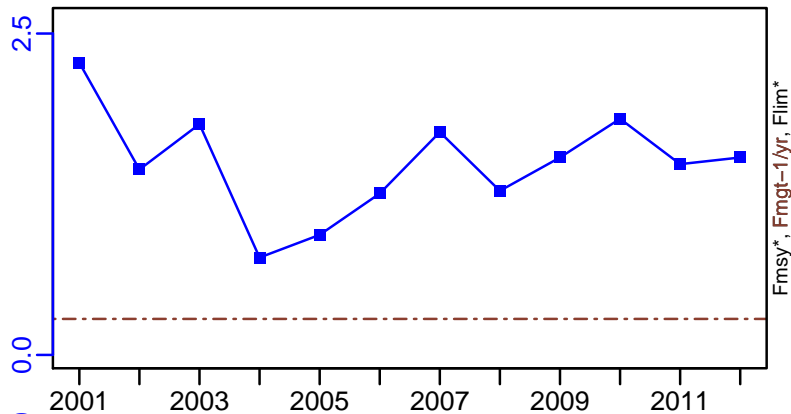
SSB-MT (2001-2012-OSIO)



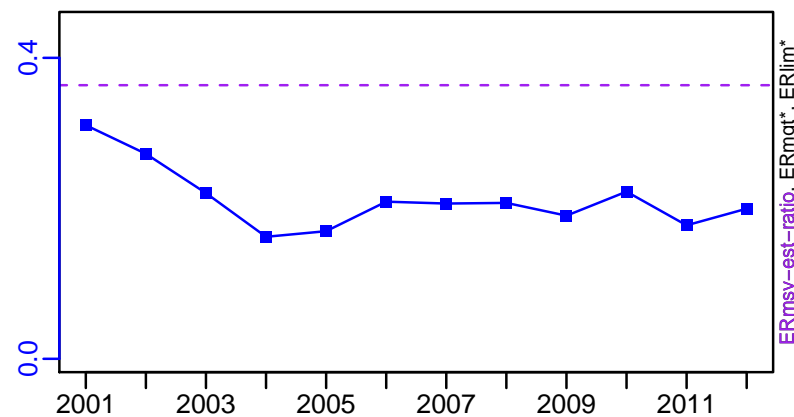
TN *



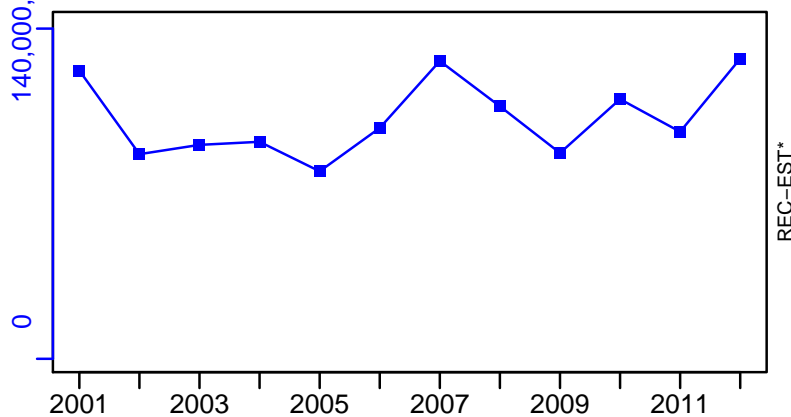
F-1/yr (2001-2012-OSIO)



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



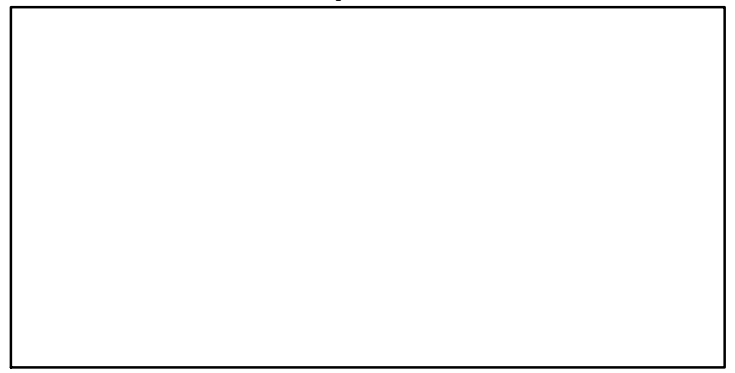
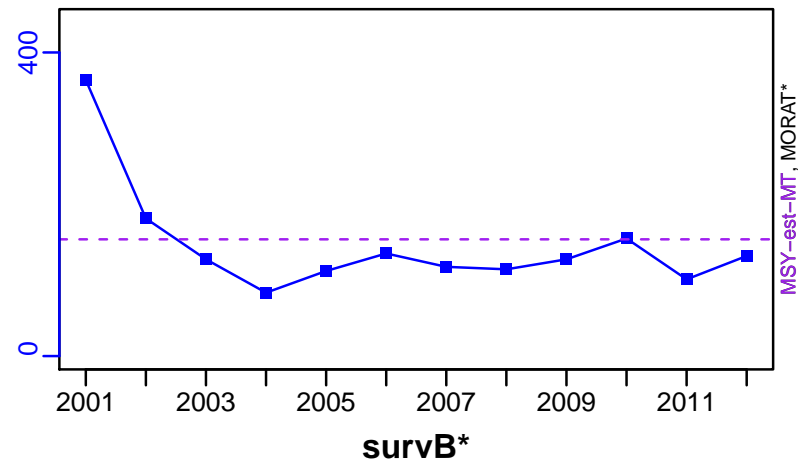
R-E00 (2001-2012-OSIO)



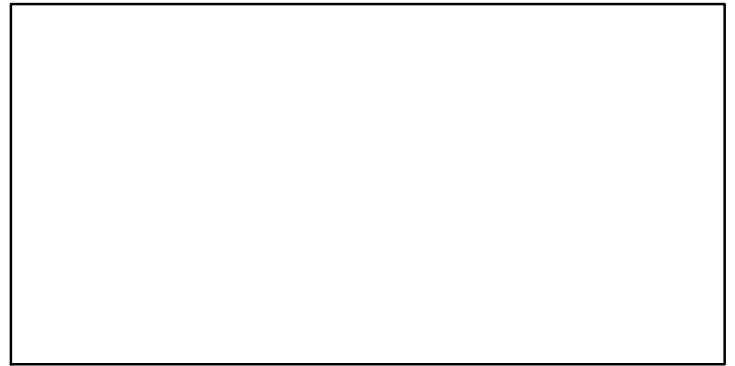
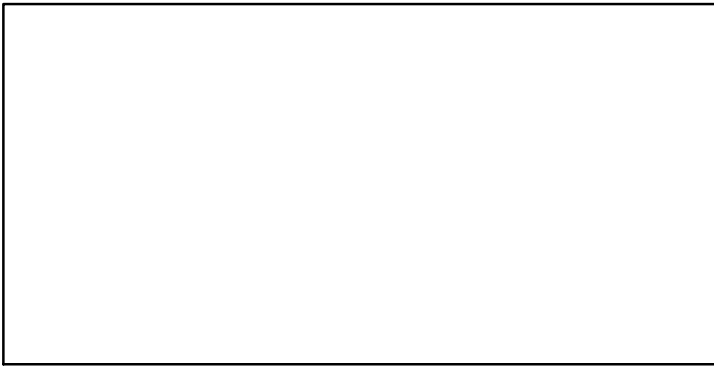
Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

TC-MT, TL*, RecC* (2001–2012–OSIO)

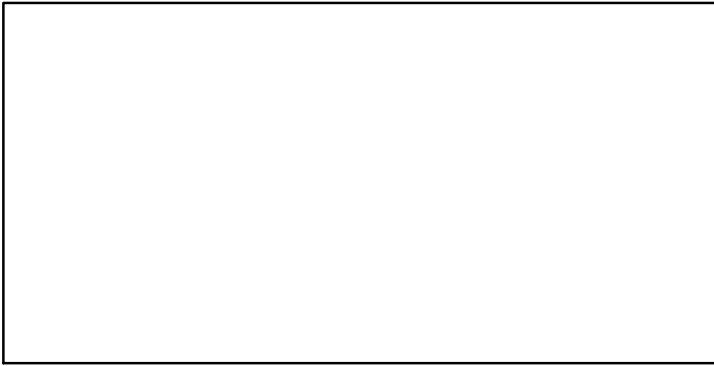
TAC*, Cpair*, Cadv*



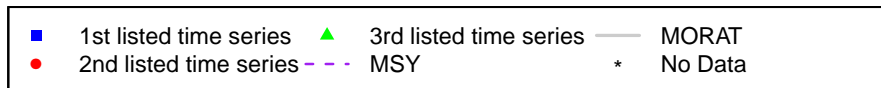
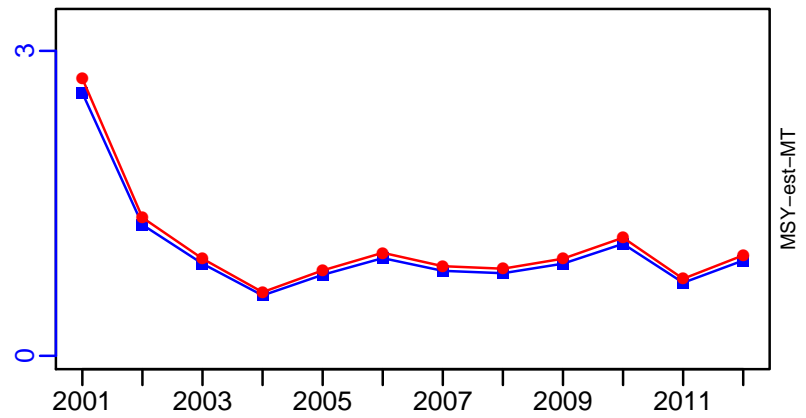
CPUE*



EFFORT*



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



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

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

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

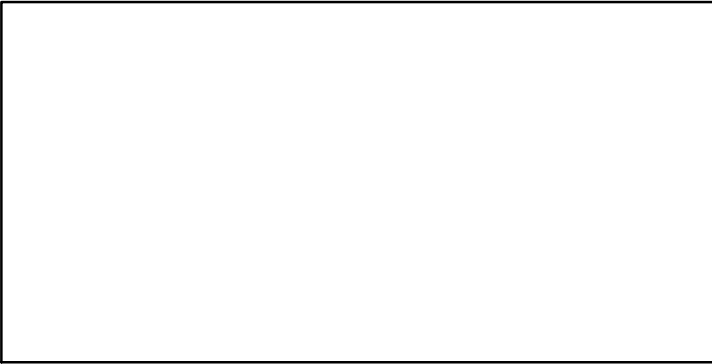
TB*



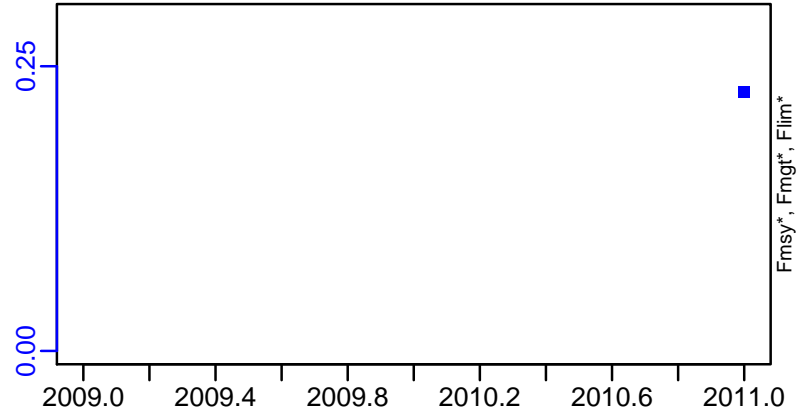
SSB*



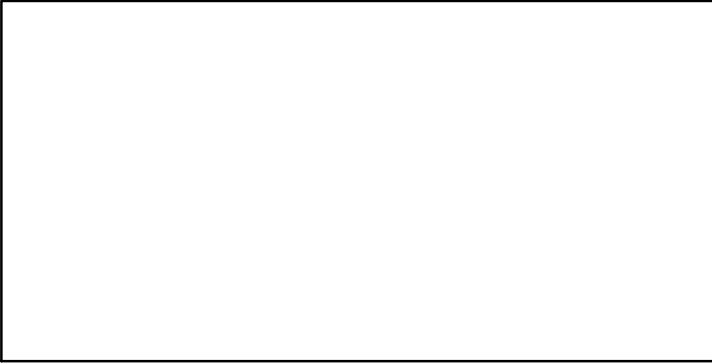
TN *



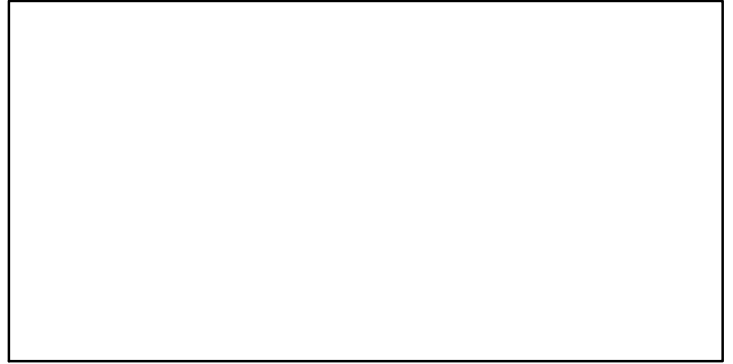
F-1/yr (2009-2011-BANOBI)



ER*

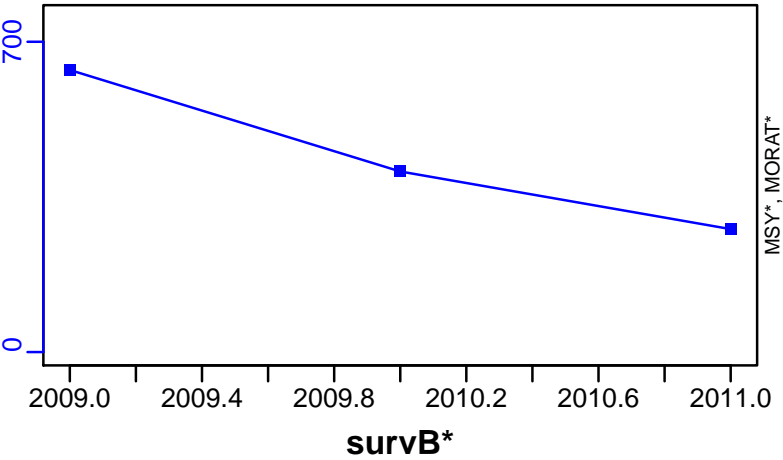


Recruits*



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

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



TAC*, Cpair*, Cadv*



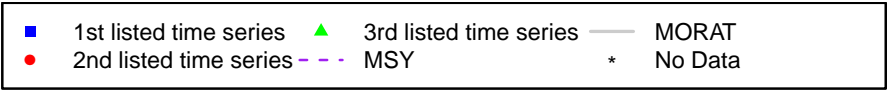
CPUE*



EFFORT*



CdivMSY*



Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

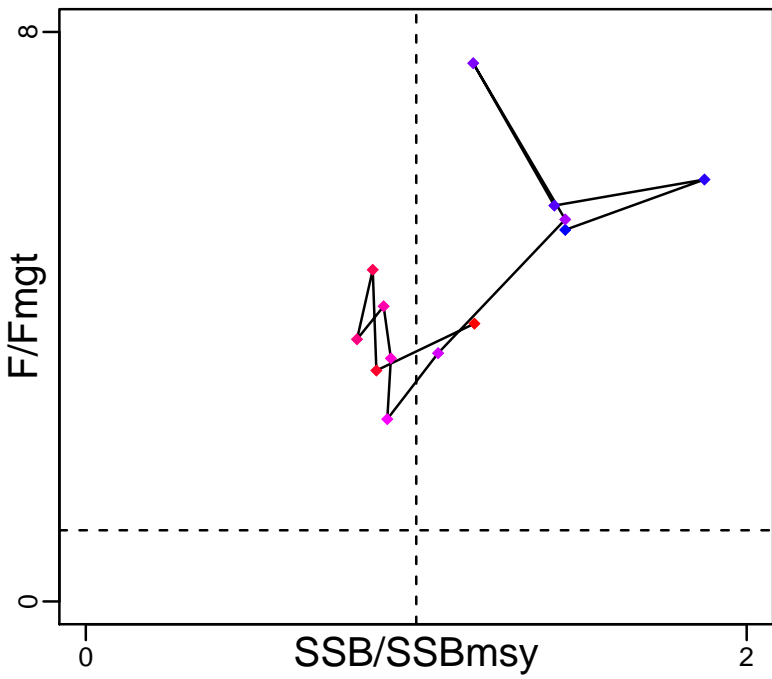
| Metadata | |
|-----------------------------|---|
| Scientific Name | Aristeus antennatus |
| Current Assess ID | STECF-RDSHRMPMEDGSA1-2002-2014-OSIO |
| Area | Northern Alboran Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 273 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.25 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.41 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 202 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 1287 |
| Flim | - | - | - |
| ERlim | - | - | - |

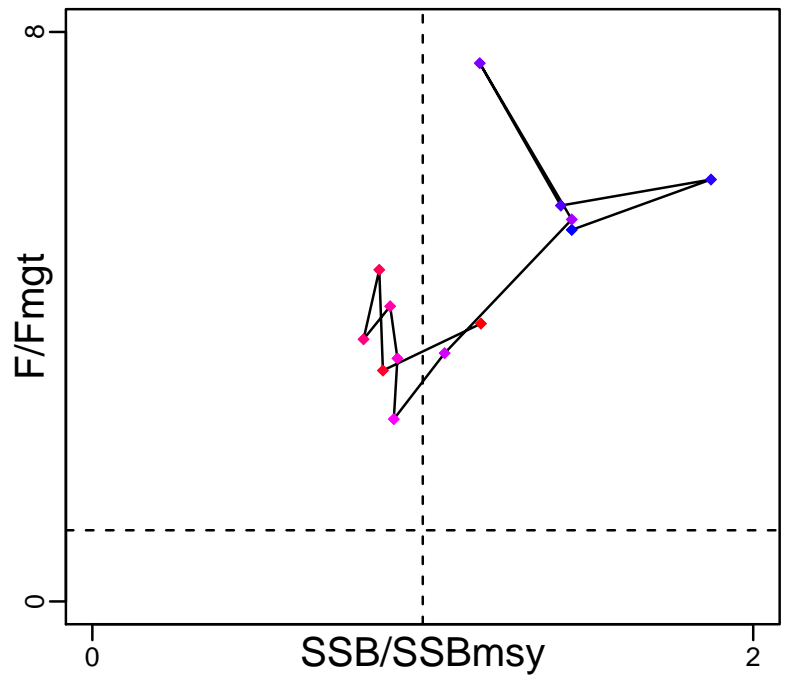
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 321 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 34,700,000 | - | - |
| F | F-1/yr | 2014 | 1.6 | - | - |
| ER | ER-calc-ratio | 2014 | 0.193 | - | - |
| TC | TC-MT | 2014 | 184 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.176 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.775 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 3.902 | | |
| ER/ERmgt | - | - | - | | |

Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

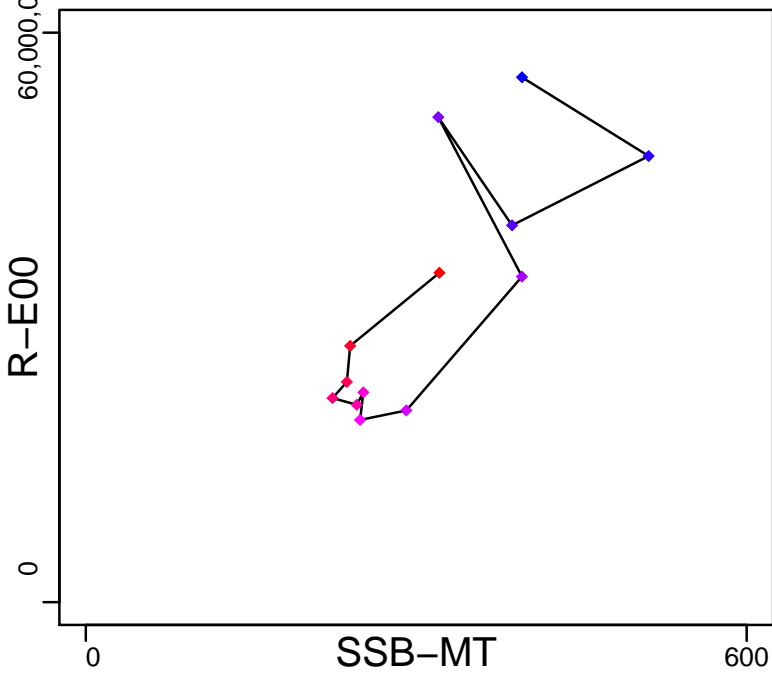
Kobe MSYpref (2002–2014–OSIO)



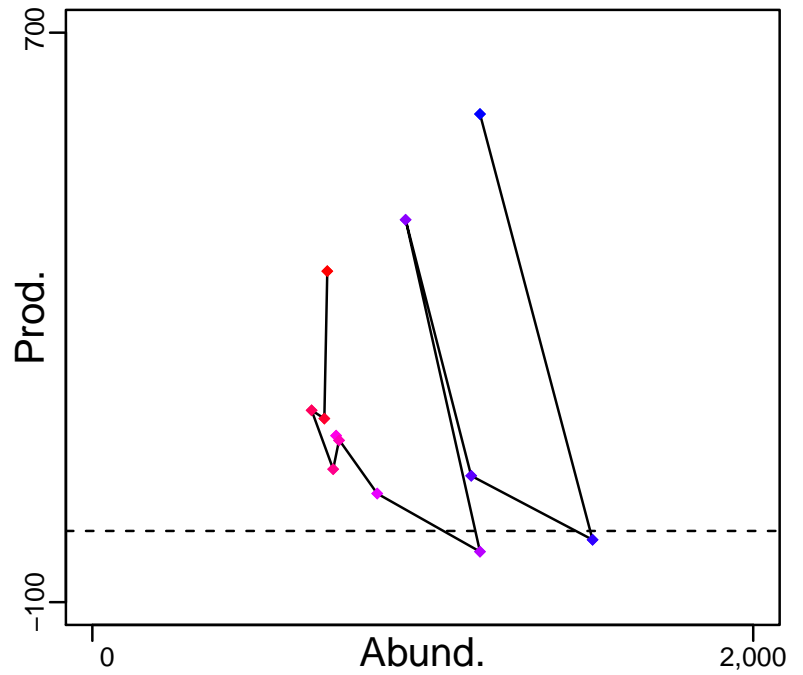
Kobe MGTpref (2002–2014–OSIO)



Spawner Recruit (2002–2014–OSIO)



Production (2002–2014–OSIO)



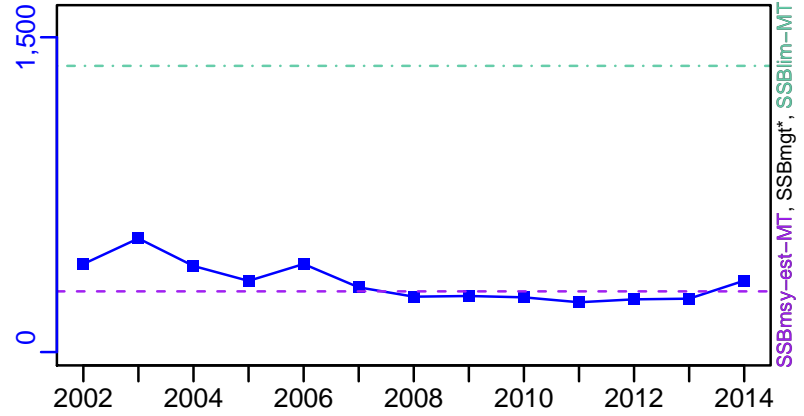
◆ Start Year ◆ End Year * No Data

Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

TB*



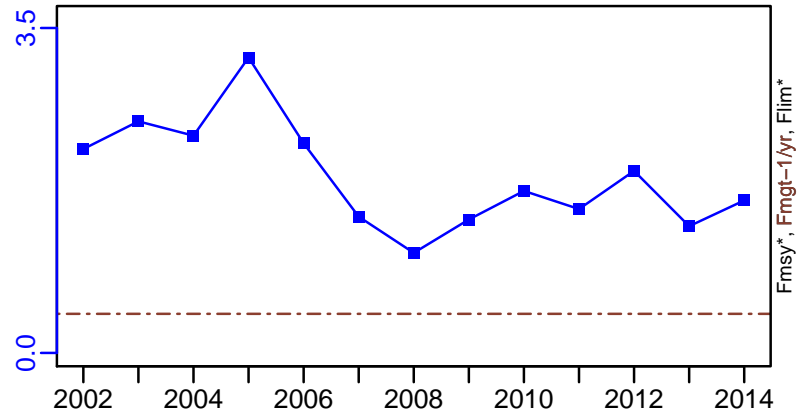
SSB-MT (2002–2014–OSIO)



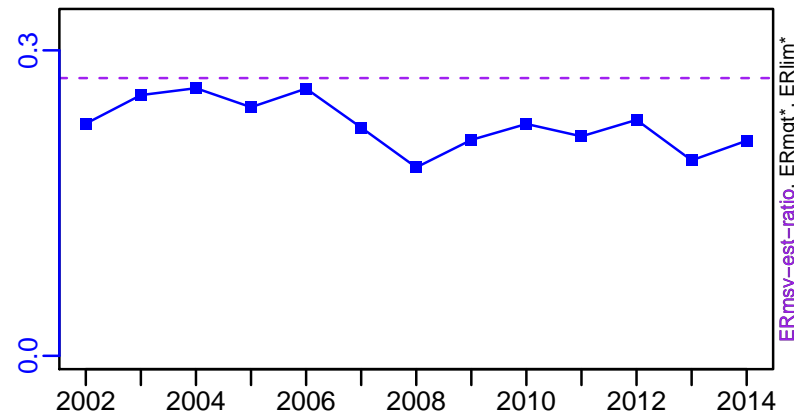
TN *



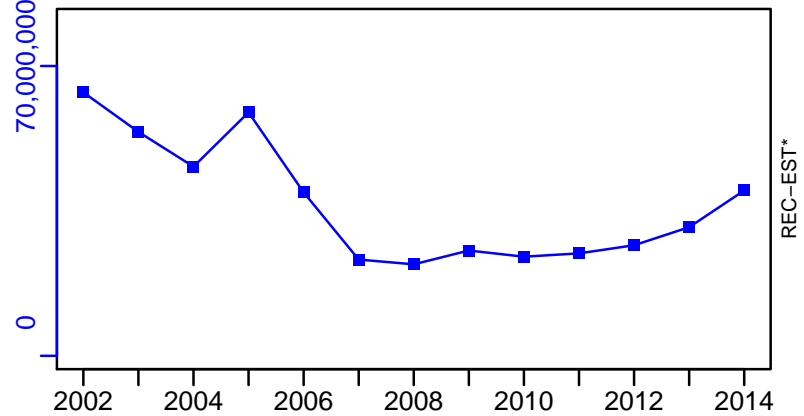
F-1/yr (2002–2014–OSIO)



ER-calc-ratio (2002–2014–OSIO)

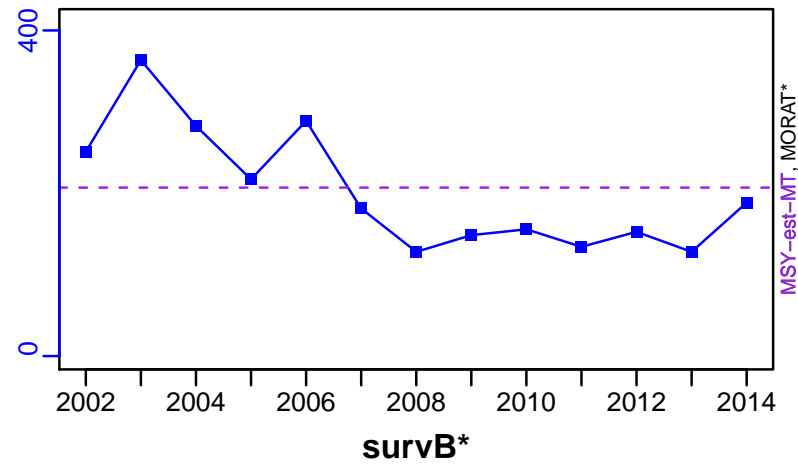


R-E00 (2002–2014–OSIO)



Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

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



TAC*, Cpair*, Cadv*



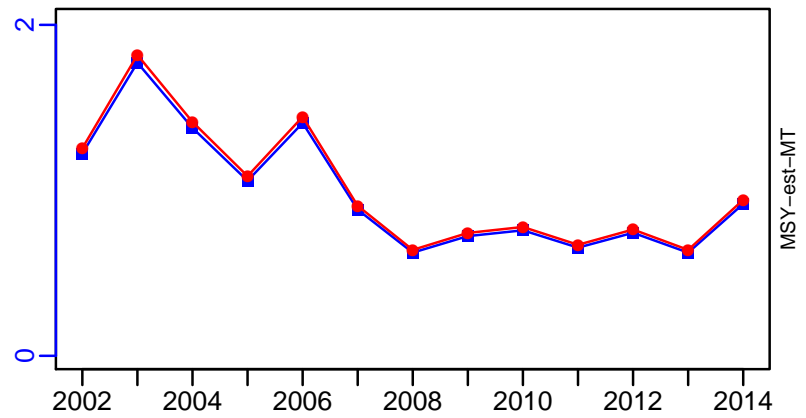
CPUE*



EFFORT*



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



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

Red shrimp South Tyrrhenian Sea [RDSHRMPMEDGSA10]

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



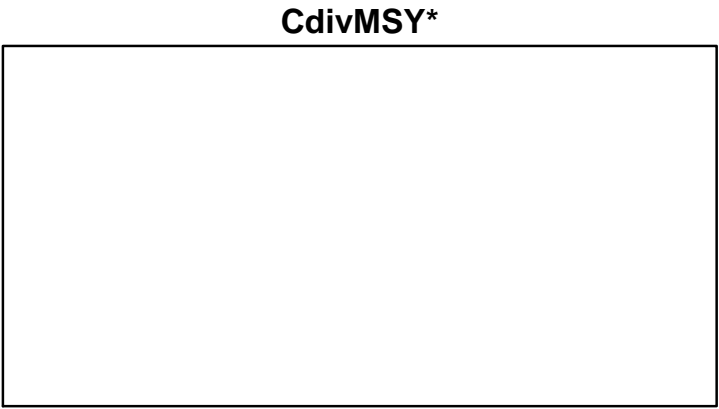
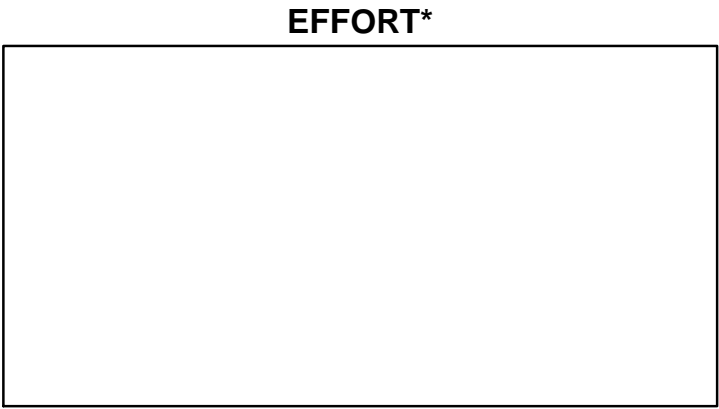
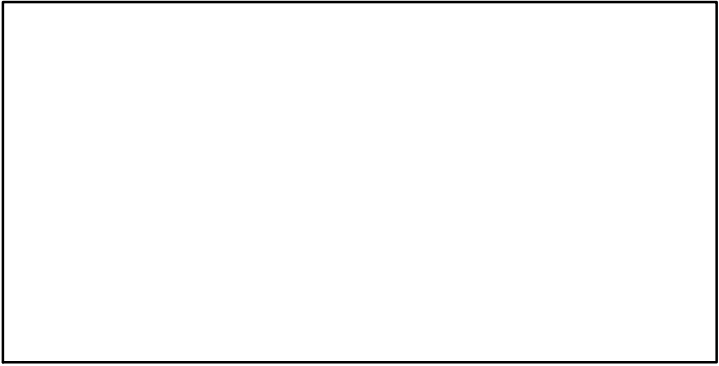
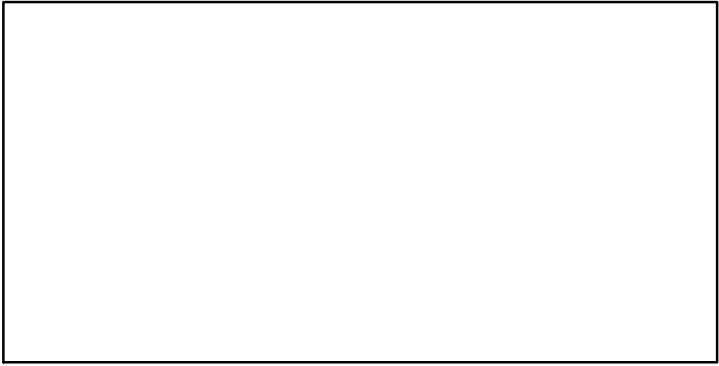
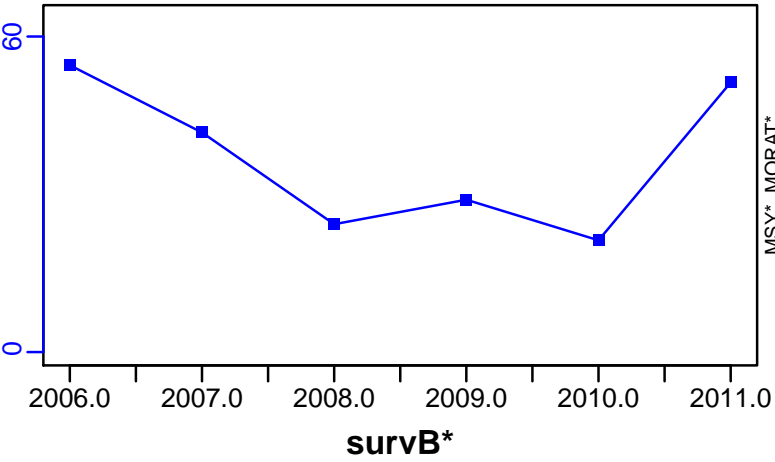
Recruits*



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



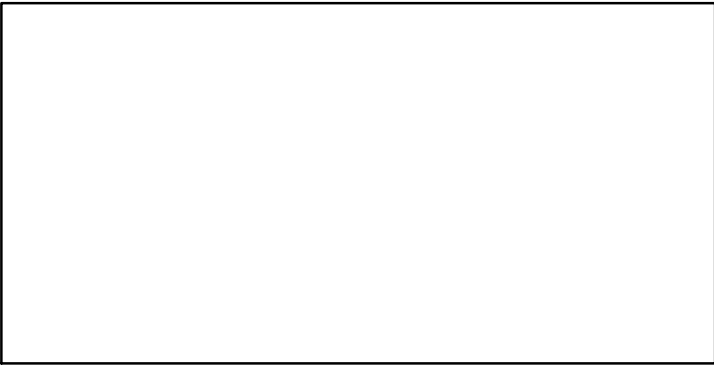
Production*



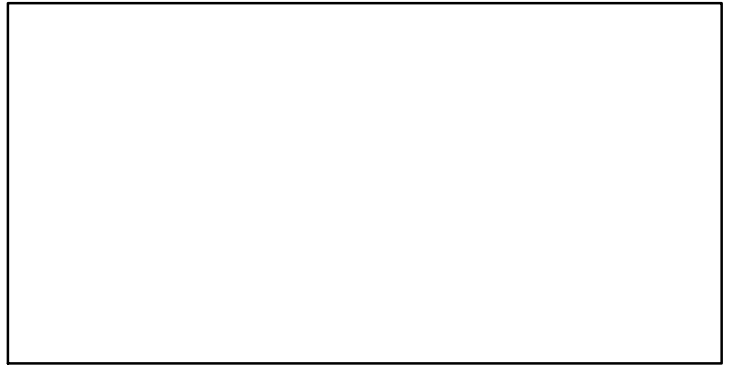
◆ Start Year ◆ End Year * No Data

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

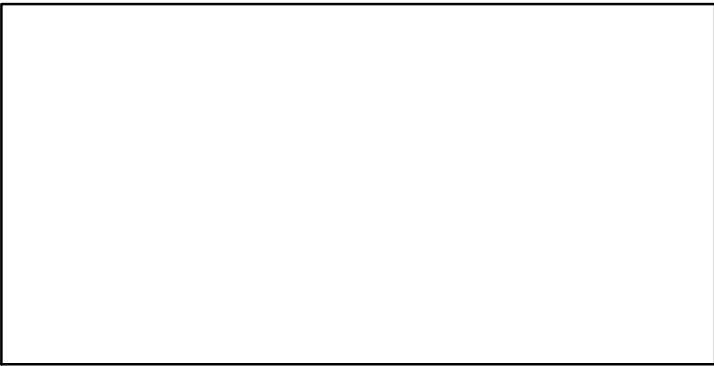
TB*



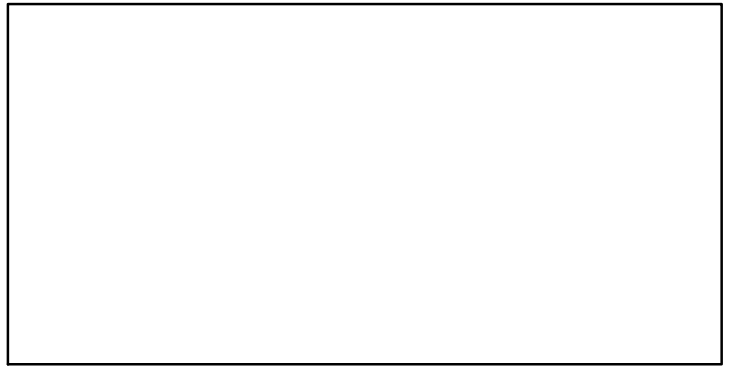
SSB*



TN *



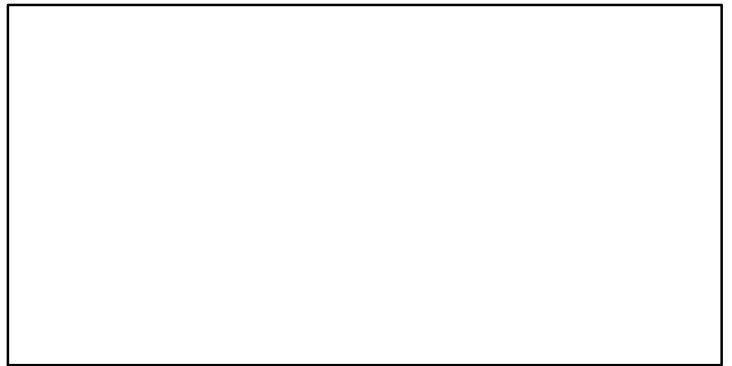
F*



ER*

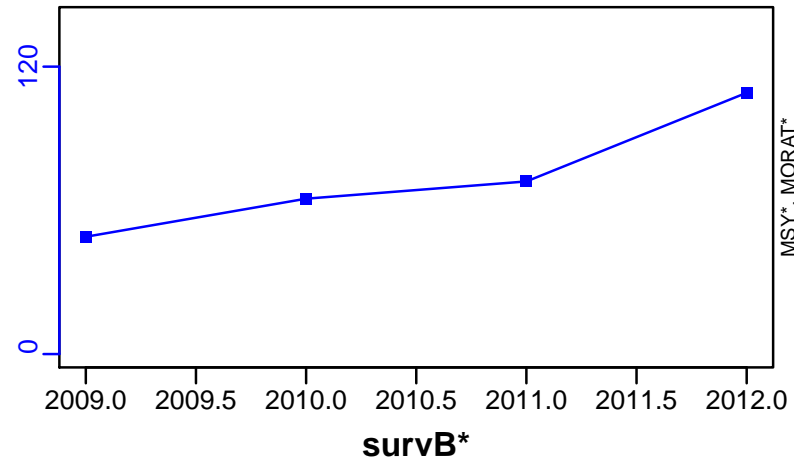


Recruits*



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]

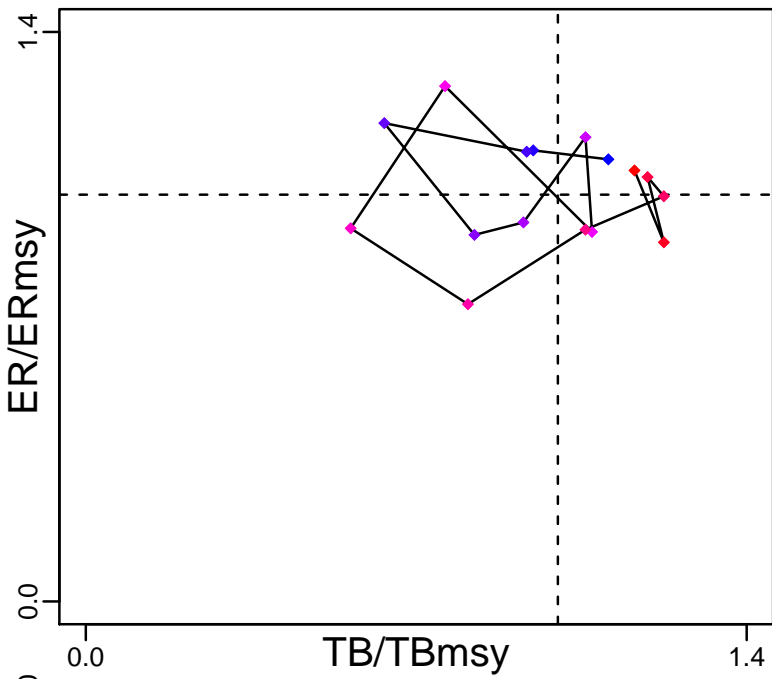
| Metadata | |
|-----------------------------|---|
| Scientific Name | Aristeus antennatus |
| Current Assess ID | STECF-RDSHRMPMEDGSA6-2002-2014-OSIO |
| Area | Northern Spain |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

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

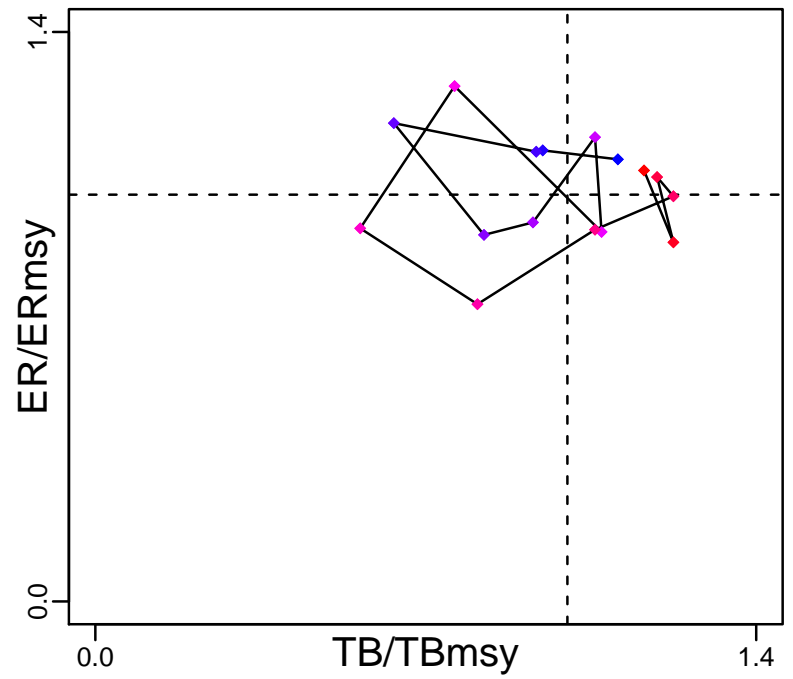
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 1680 | - | - |
| SSB | SSB-MT | 2014 | 4050 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 5.98×10^8 | - | - |
| F | F-1/yr | 2014 | 0.441 | - | - |
| ER | ER-calc-ratio | 2014 | 0.045 | - | - |
| TC | TC-MT | 2014 | 546 | | |
| TL | TL-MT | 2011 | 737 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2011 | 1.162 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2011 | 1.06 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.225 | | |
| ER/ERmgt | - | - | - | | |

Red shrimp Northern Spain [RDSHRMPMEDGSA6]

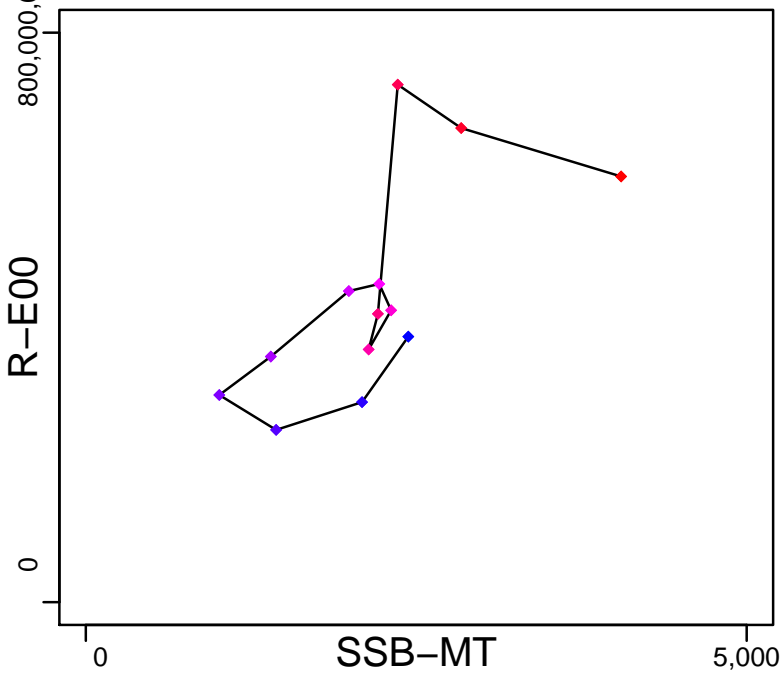
Kobe MSYpref (1996–2011–BANOB1)



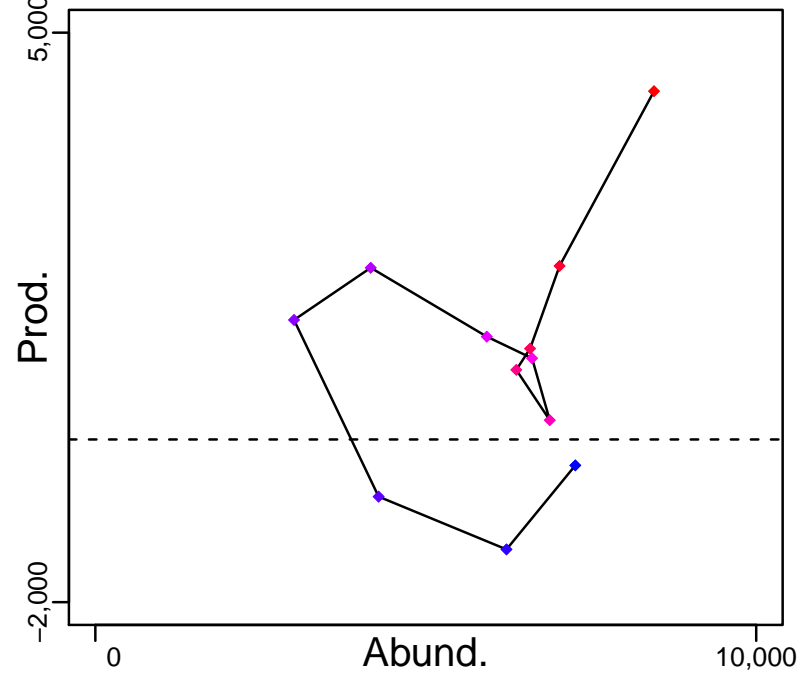
Kobe MGTpref (1996–2011–BANOB1)



Spawner Recruit (2002–2014–OSIO)



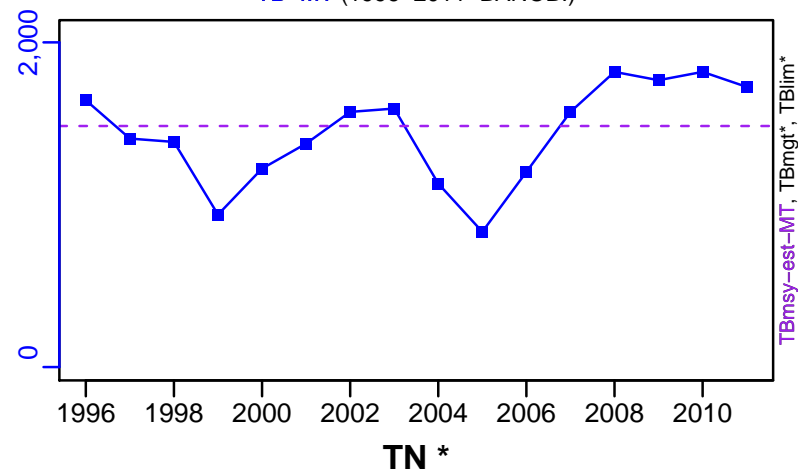
Production (2002–2014–OSIO)



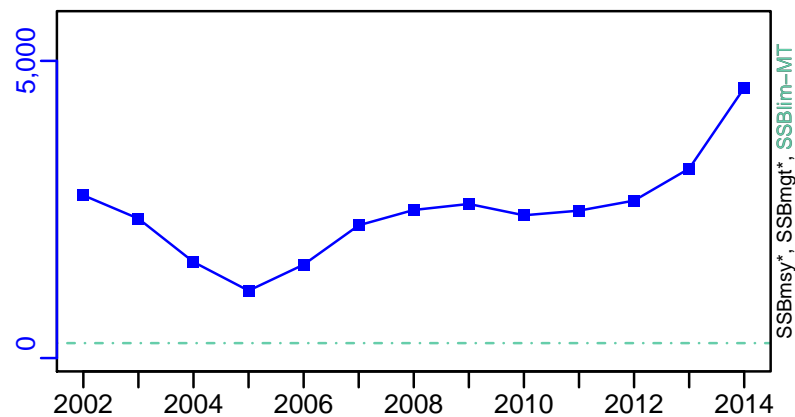
◆ Start Year ◆ End Year * No Data

Red shrimp Northern Spain [RDSHRMPMEDGSA6]

TB-MT (1996–2011–BANOB)



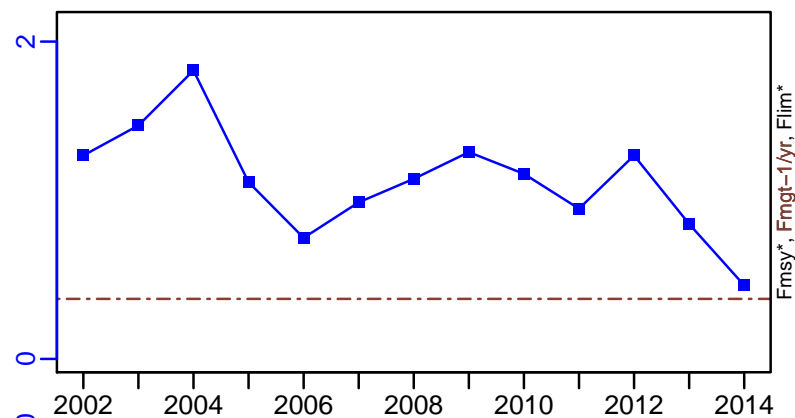
SSB-MT (2002–2014–OSIO)



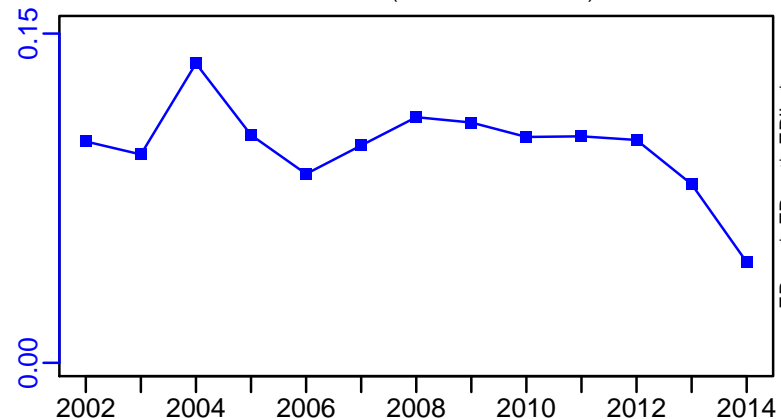
TN *



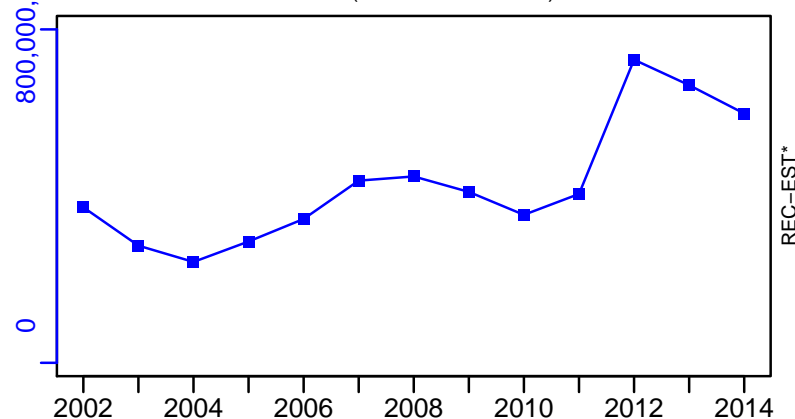
F-1/yr (2002–2014–OSIO)



ER-calc-ratio (2002–2014–OSIO)

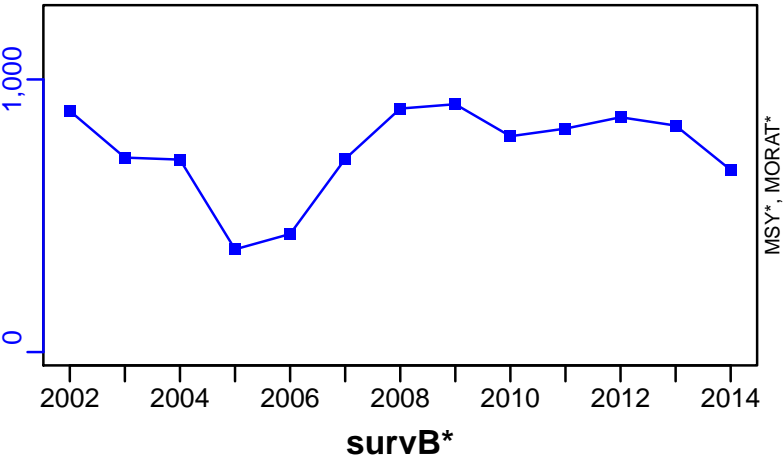


R-E00 (2002–2014–OSIO)



Red shrimp Northern Spain [RDSHRMPMEDGSA6]

TC-MT, TL*, RecC* (2002–2014–OSIO)



TAC*, Cpair*, Cadv*



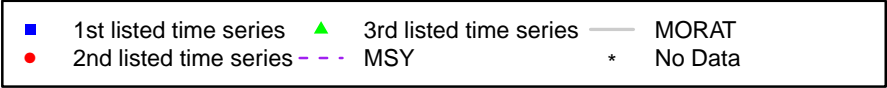
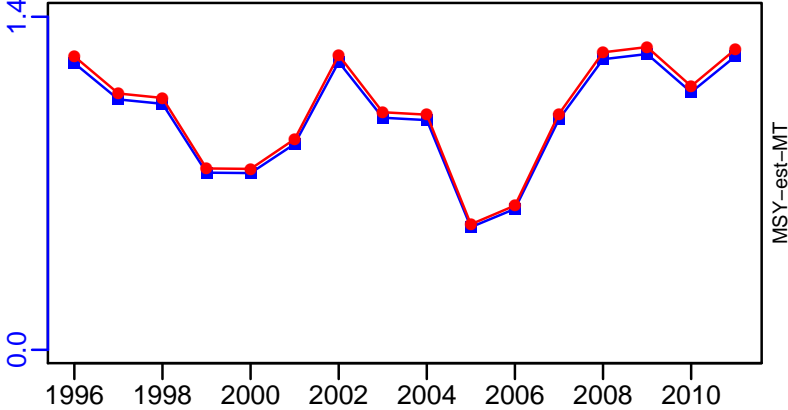
CPUE*



EFFORT*



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



Red mullet Northern Alboran Sea [RMULLMEDGSA1]

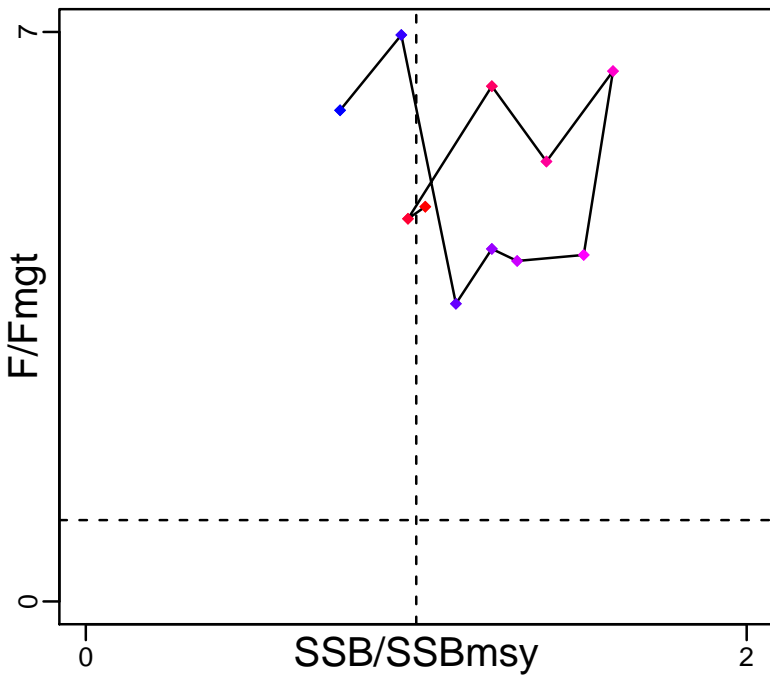
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA1-2003-2013-OSIO |
| Area | Northern Alboran Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 248 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.353 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.27 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 182 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

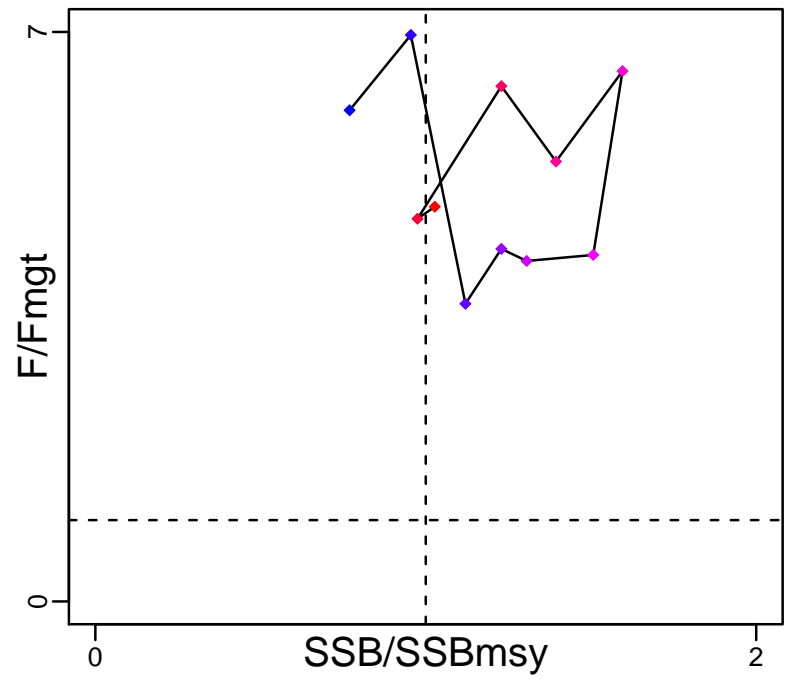
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 255 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 13,400,000 | - | - |
| F | F-1/yr | 2013 | 1.31 | - | - |
| ER | ER-calc-ratio | 2013 | 0.246 | - | - |
| TC | TC-MT | 2013 | 130 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 1.027 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.696 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 4.852 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

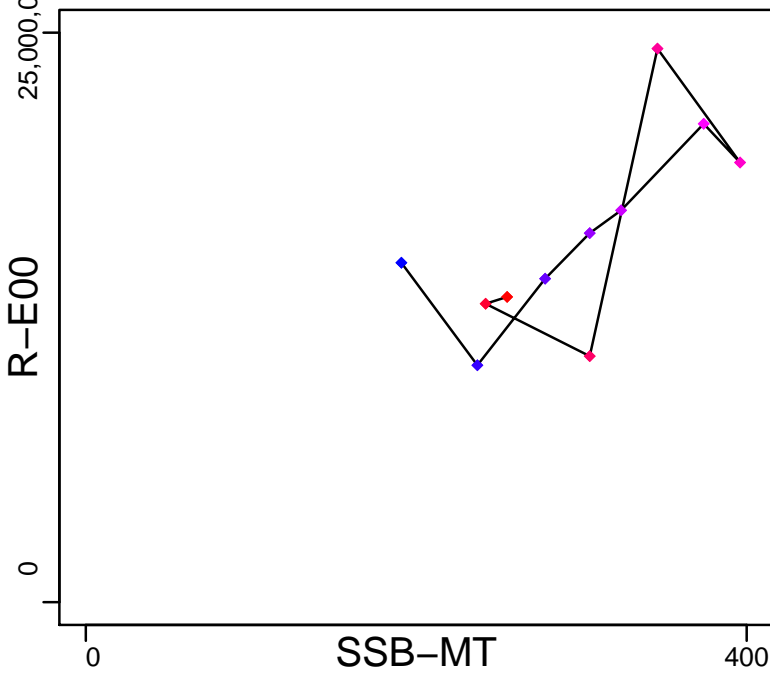
Kobe MSYpref (2003–2013–OSIO)



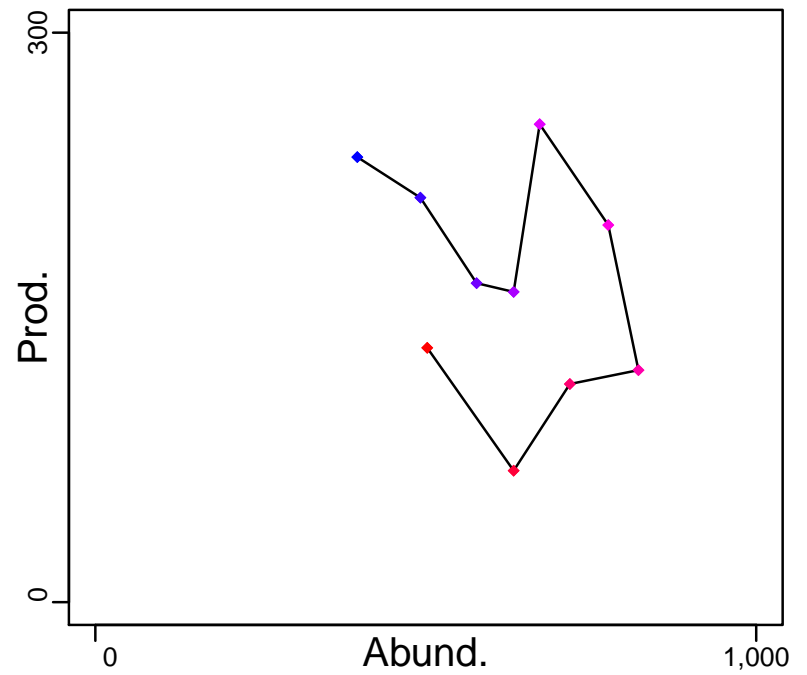
Kobe MGTpref (2003–2013–OSIO)



Spawner Recruit (2003–2013–OSIO)



Production (2003–2013–OSIO)



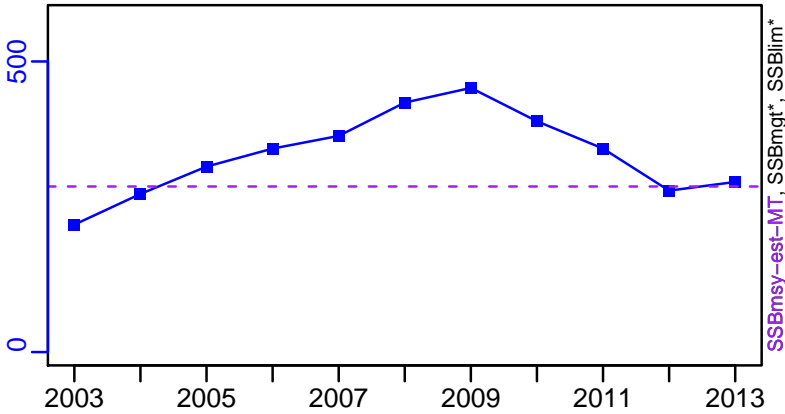
◆ Start Year ◆ End Year * No Data

Red mullet Northern Alboran Sea [RMULLMEDGSA1]

TB*



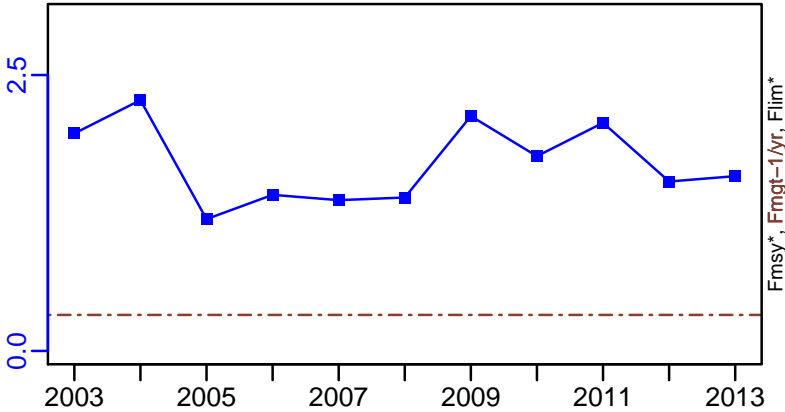
SSB-MT (2003–2013–OSIO)



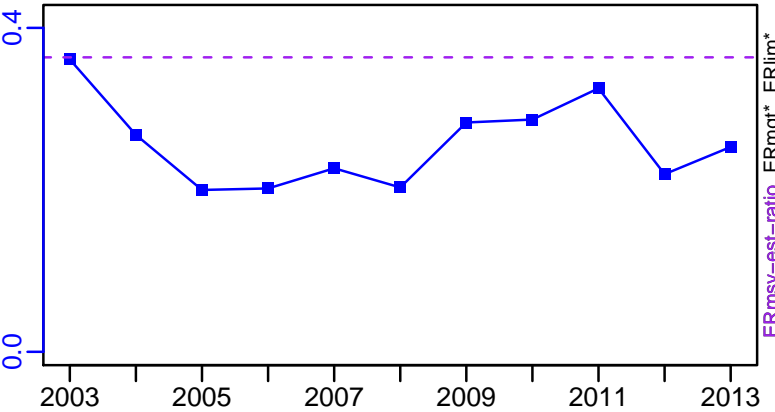
TN *



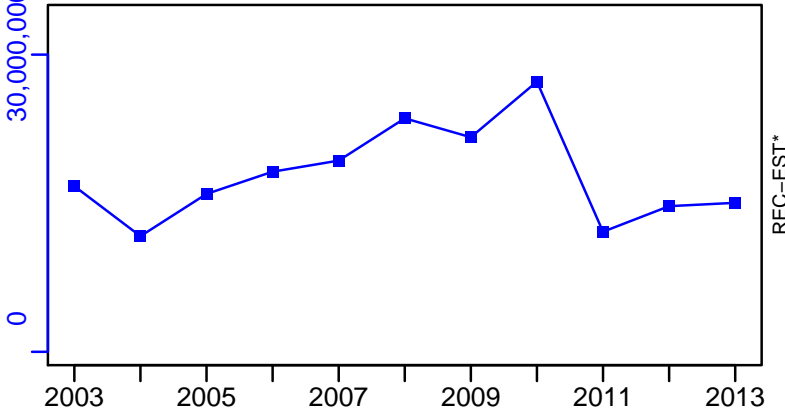
F-1/yr (2003–2013–OSIO)



ER-calc-ratio (2003–2013–OSIO)

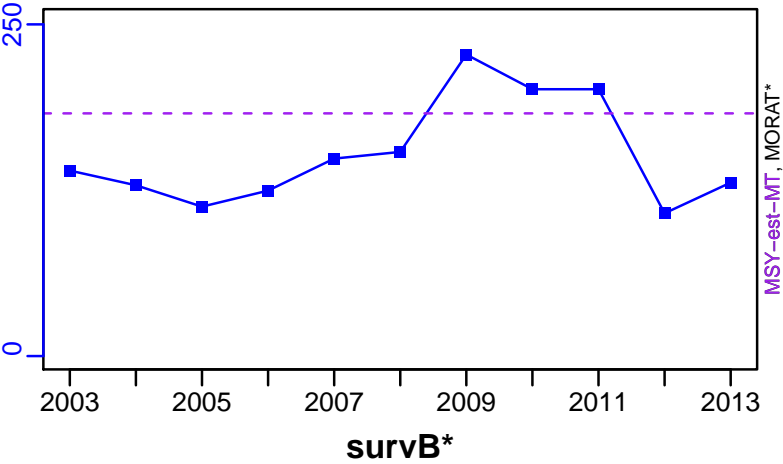


R-E00 (2003–2013–OSIO)



Red mullet Northern Alboran Sea [RMULLMEDGSA1]

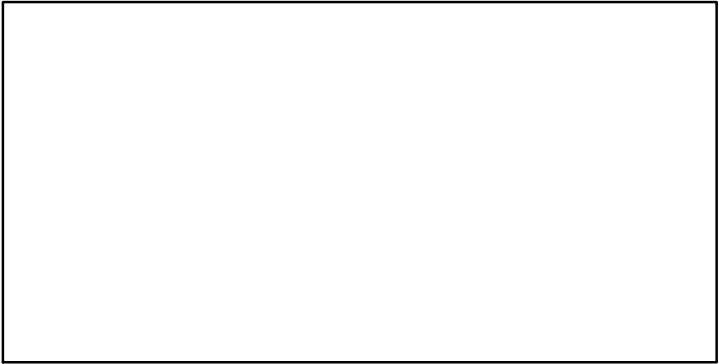
TC-MT, TL*, RecC* (2003-2013-OSIO)



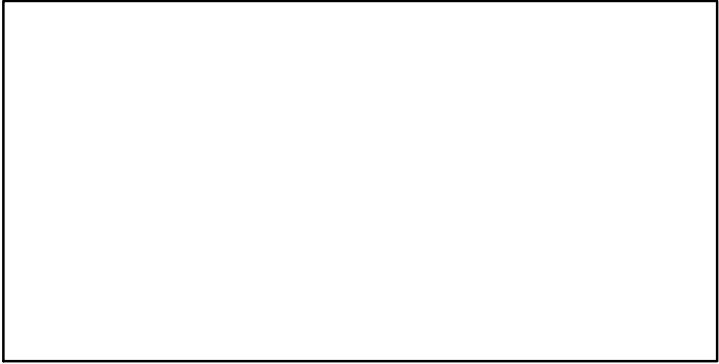
TAC*, Cpair*, Cadv*



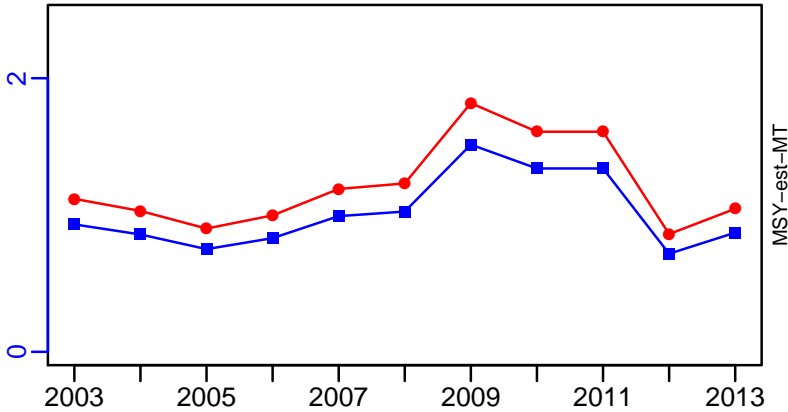
CPUE*



EFFORT*



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



Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

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

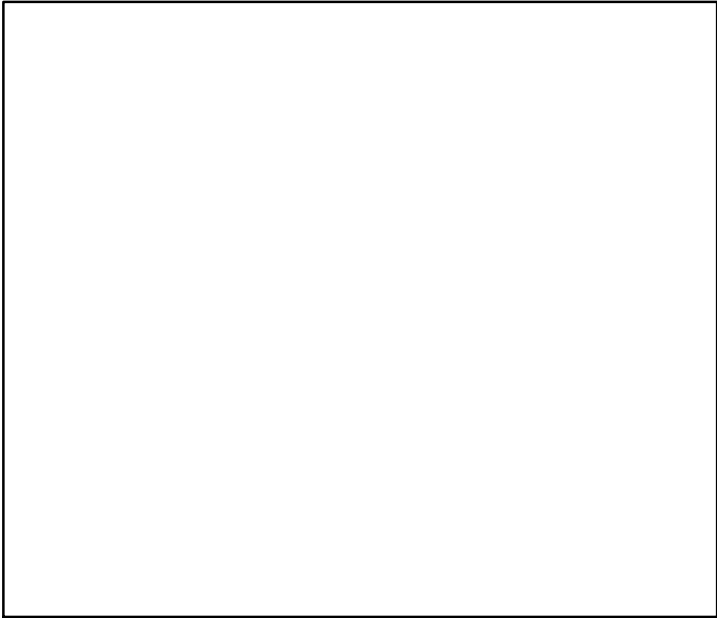
Kobe MSY*



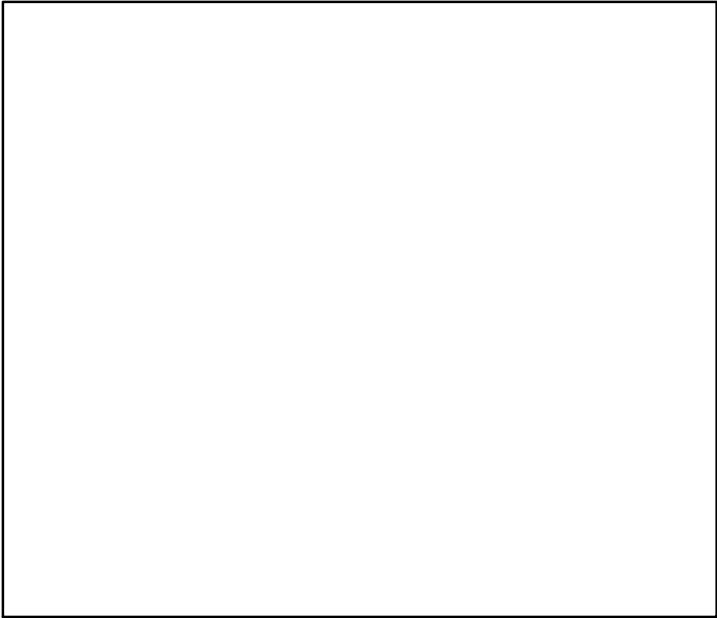
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



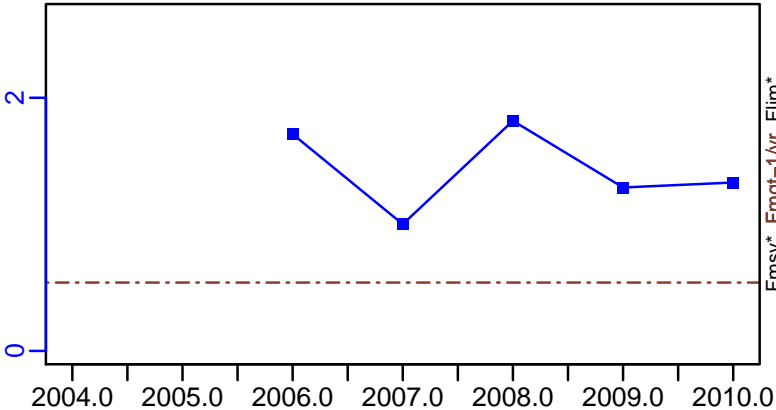
SSB*



TN *



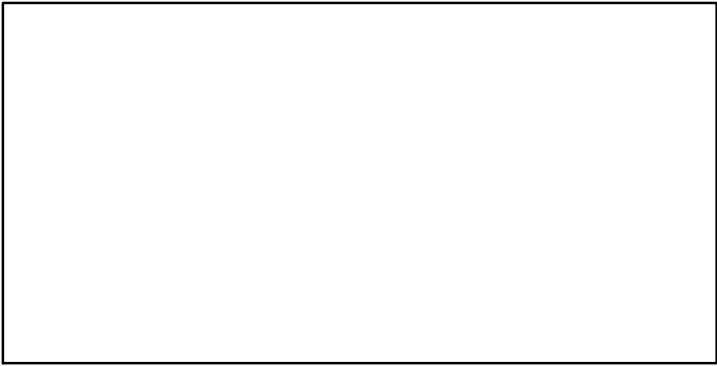
F-1/yr (2004-2010-OSIO)



ER*

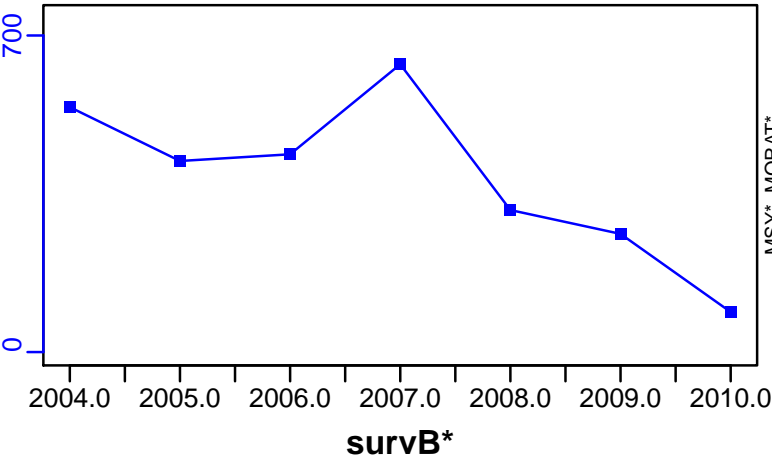


Recruits*



Red mullet South Tyrrhenian Sea [RMULLMEDGSA10]

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



TAC*, Cpair*, Cadv*



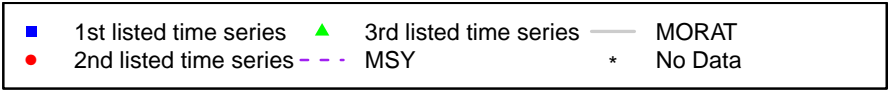
CPUE*



EFFORT*



CdivMSY*



Red mullet Sardinia [RMULLMEDGSA11]

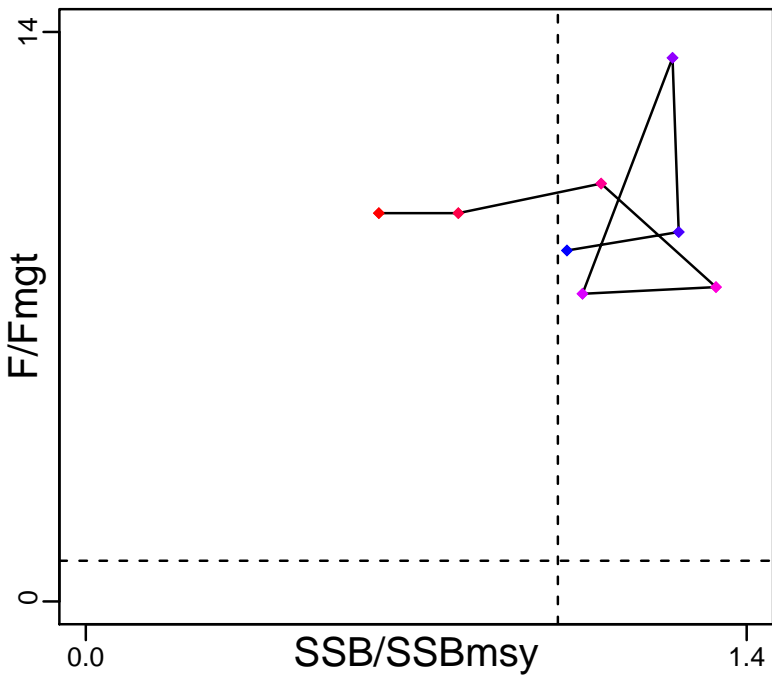
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA11-2005-2012-OSIO |
| Area | Sardinia |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2012 | 152 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.841 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.11 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 272 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

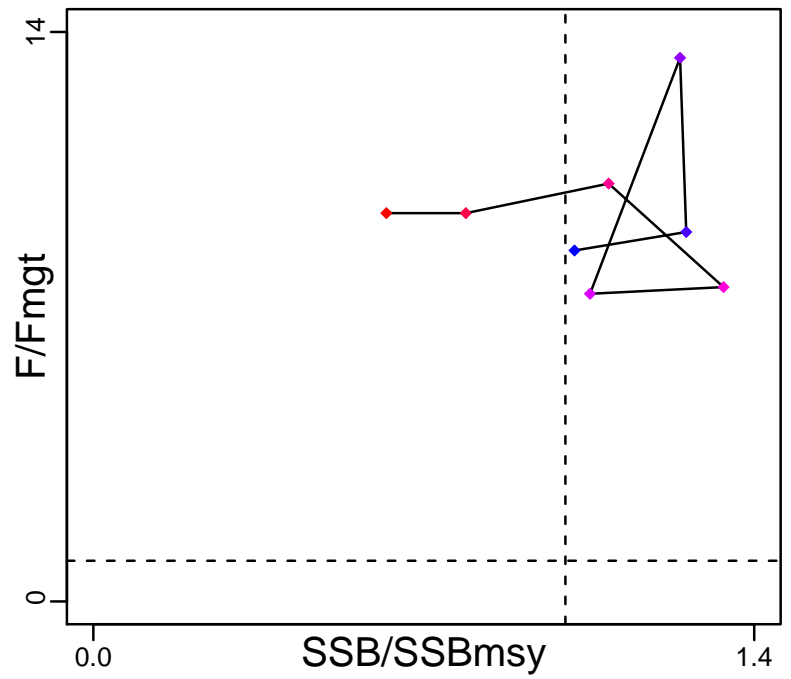
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 94 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 26,600,000 | - | - |
| F | F-1/yr | 2012 | 1.05 | - | - |
| ER | ER-calc-ratio | 2012 | 0.677 | - | - |
| TC | TC-MT | 2012 | 136 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2012 | 0.621 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 0.805 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 9.545 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Sardinia [RMULLMEDGSA11]

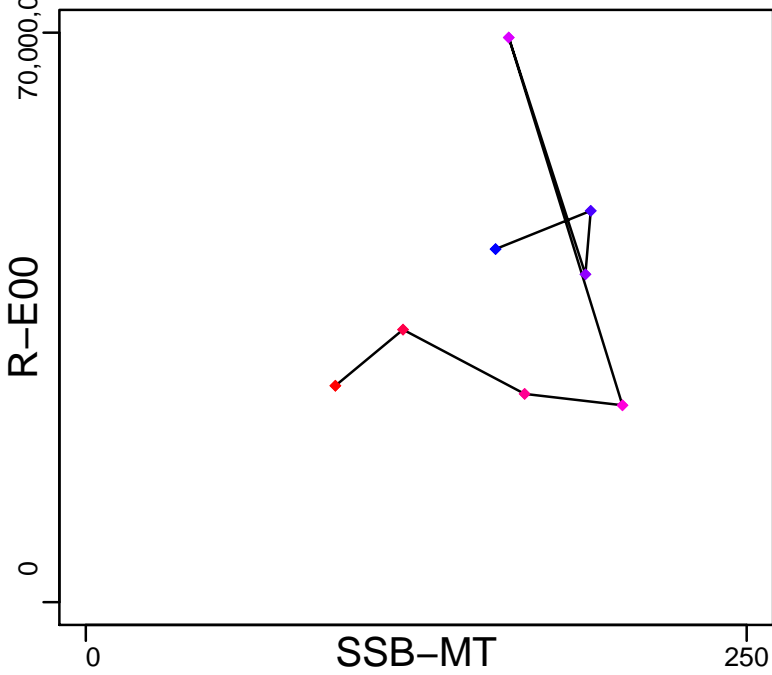
Kobe MSYpref (2005–2012–OSIO)



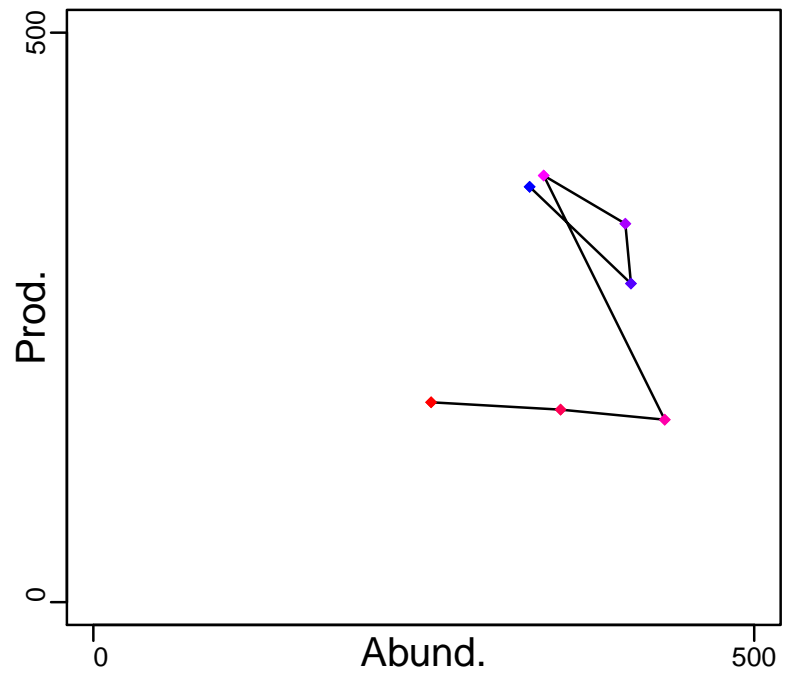
Kobe MGTpref (2005–2012–OSIO)



Spawner Recruit (2005–2012–OSIO)



Production (2005–2012–OSIO)



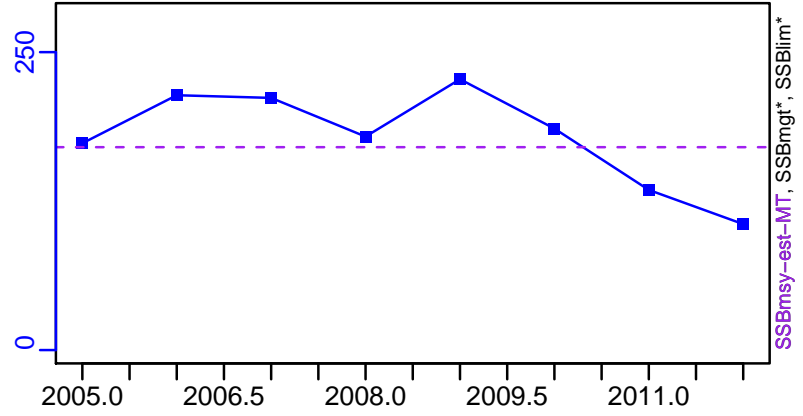
◆ Start Year ◆ End Year * No Data

Red mullet Sardinia [RMULLMEDGSA11]

TB*



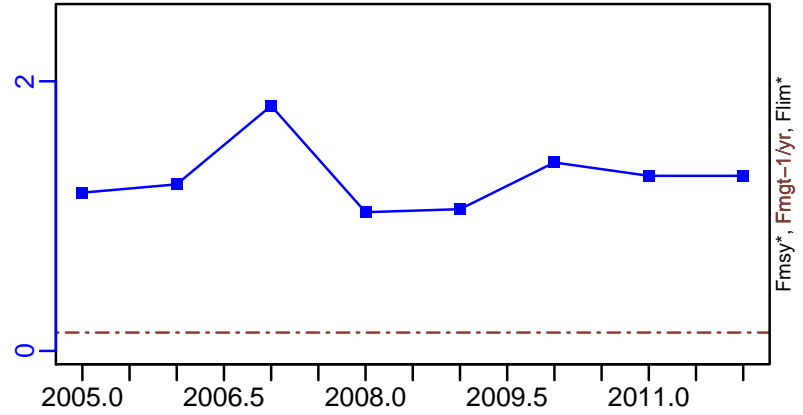
SSB-MT (2005–2012–OSIO)



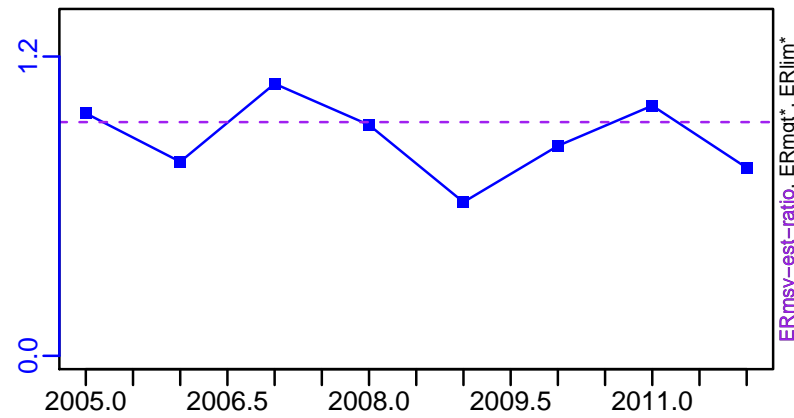
TN *



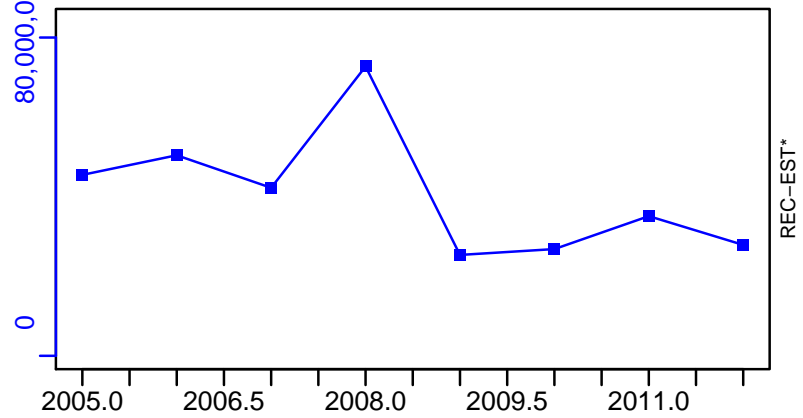
F-1/yr (2005–2012–OSIO)



ER-calc-ratio (2005–2012–OSIO)



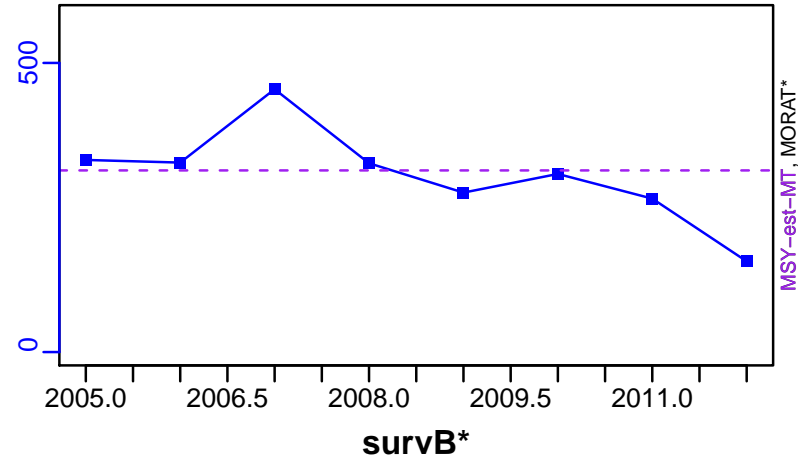
R-E00 (2005–2012–OSIO)



Red mullet Sardinia [RMULLMEDGSA11]

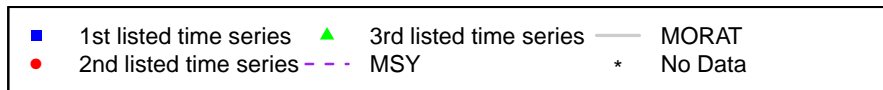
TC-MT, TL*, RecC* (2005–2012–OSIO)

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 0.45 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|------|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2011 | 1150 | - | 1.5+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2011 | 68,900,000 | - | - |
| F | F-1/yr | 2011 | 1.3 | - | - |
| ER | ER-calc-ratio | 2011 | 0.243 | - | - |
| TC | TC-MT | 2011 | 609 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 2.889 | | |
| ER/ERmgt | - | - | - | | |

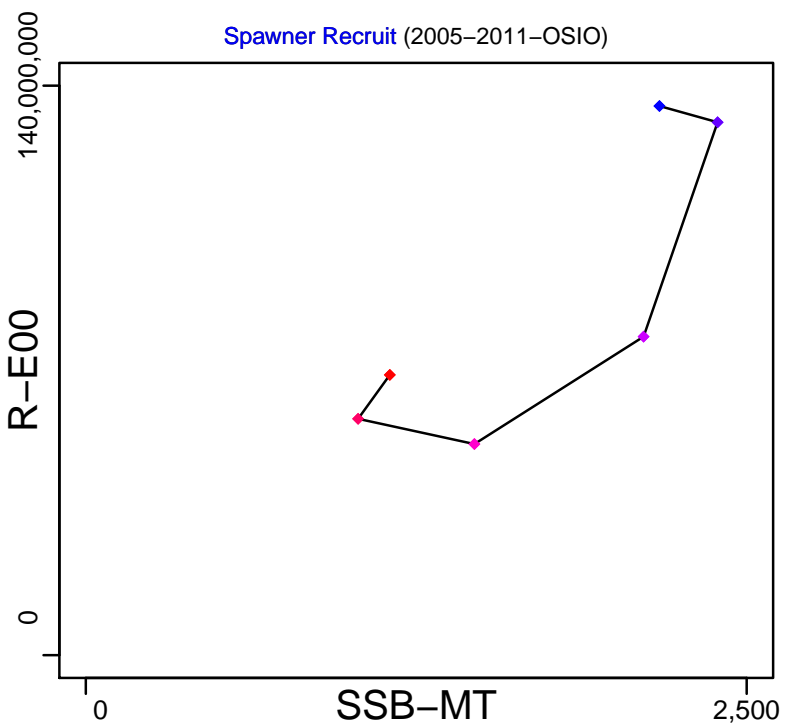
Kobe MSY*



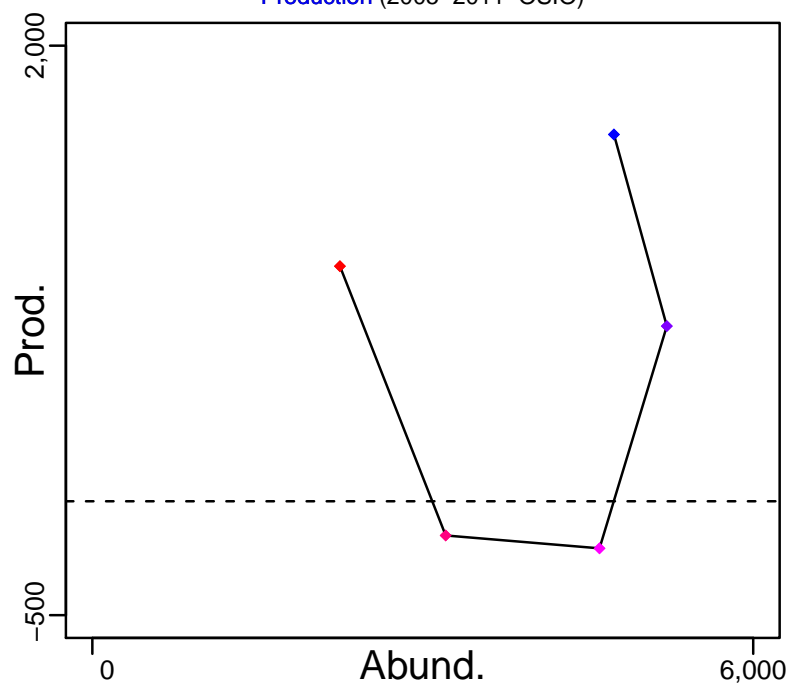
Kobe MGT*



Spawner Recruit (2005-2011-OSIO)



Production (2005-2011-OSIO)



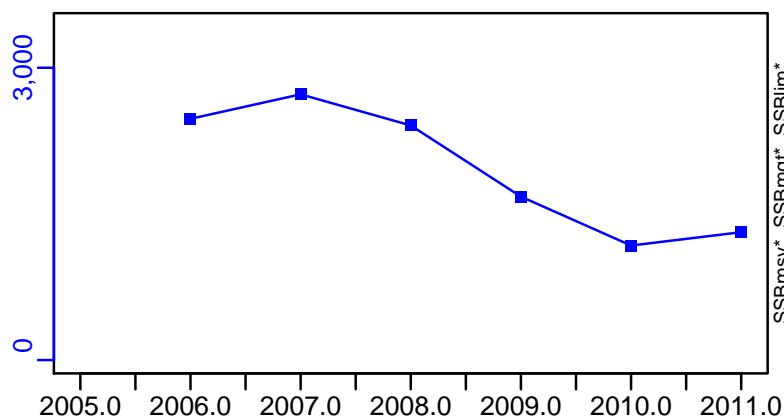
◆ Start Year ◆ End Year * No Data

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

TB*



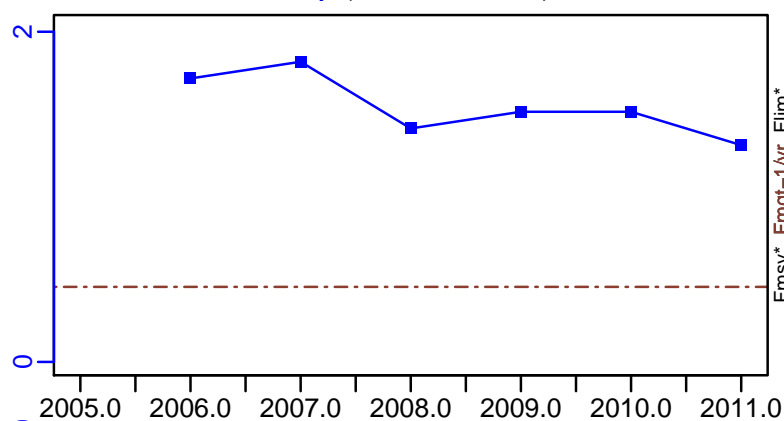
SSB-MT (2005-2011-OSIO)



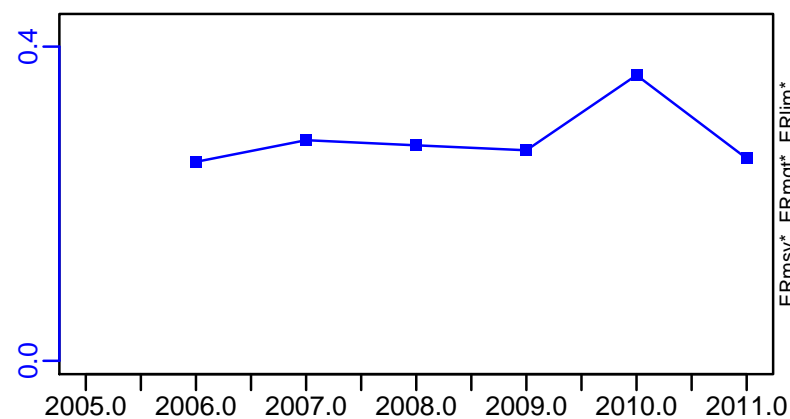
TN *



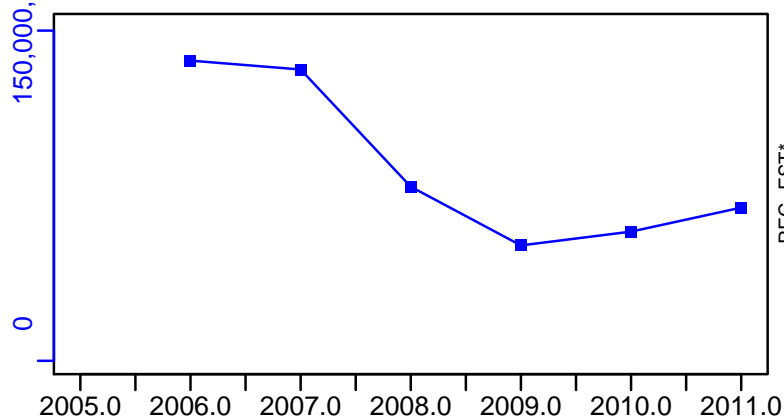
F-1/yr (2005-2011-OSIO)



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

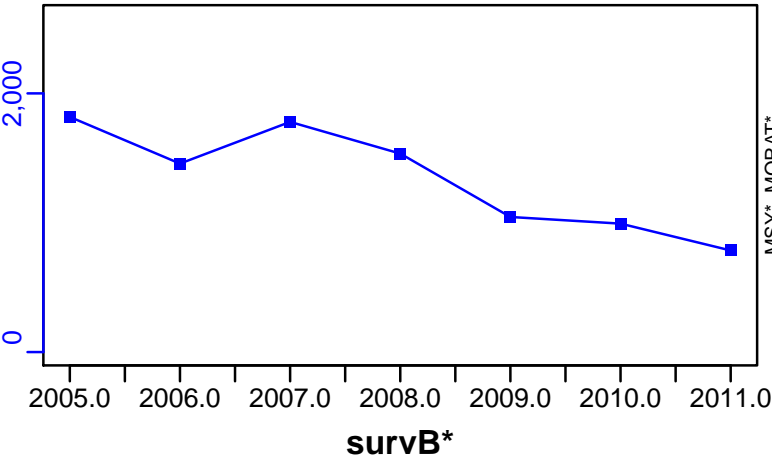


R-E00 (2005-2011-OSIO)



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

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



TAC*, Cpair*, Cadv*



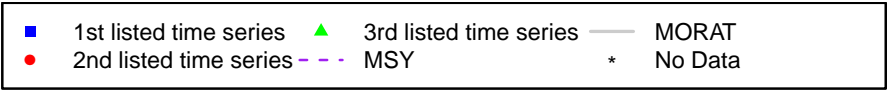
CPUE*



EFFORT*



CdivMSY*



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

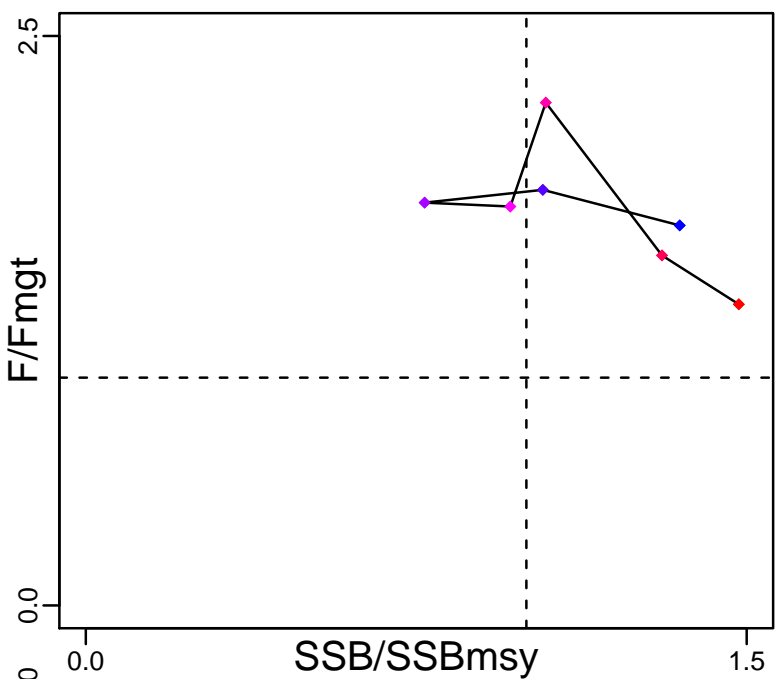
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA17-18-2008-2014-OSIO |
| Area | Adriatic Sea (GSA 17,18) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 4473 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.633 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.41 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 6027 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

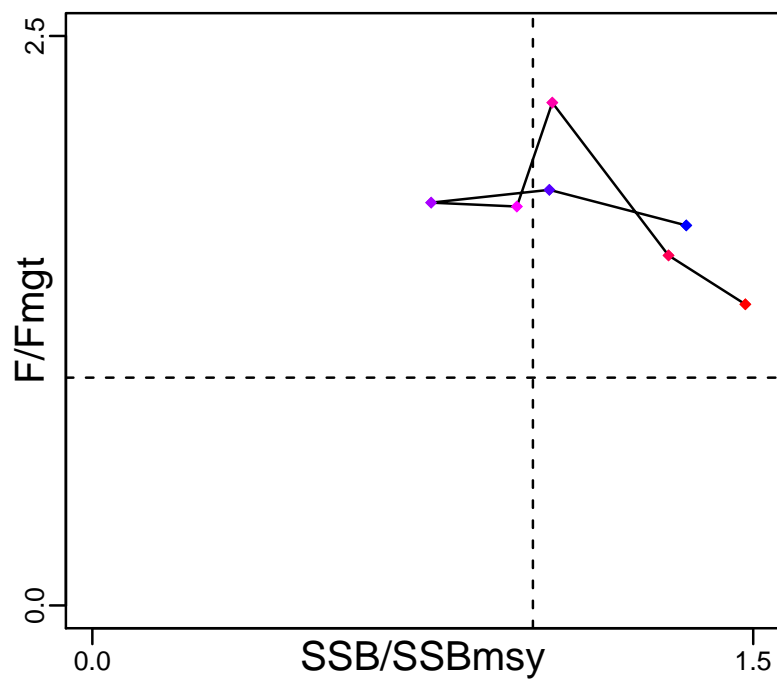
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 6630 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.17×10^9 | - | - |
| F | F-1/yr | 2014 | 0.542 | - | - |
| ER | ER-calc-ratio | 2014 | 0.467 | - | - |
| TC | TC-MT | 2014 | 6600 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.482 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.739 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.322 | | |
| ER/ERmgt | - | - | - | | |

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

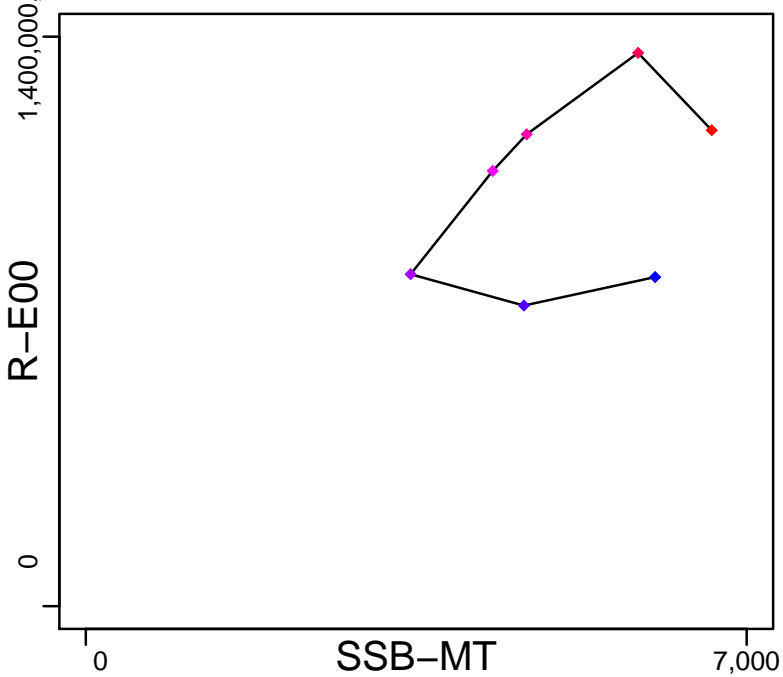
Kobe MSYpref (2008-2014-OSIO)



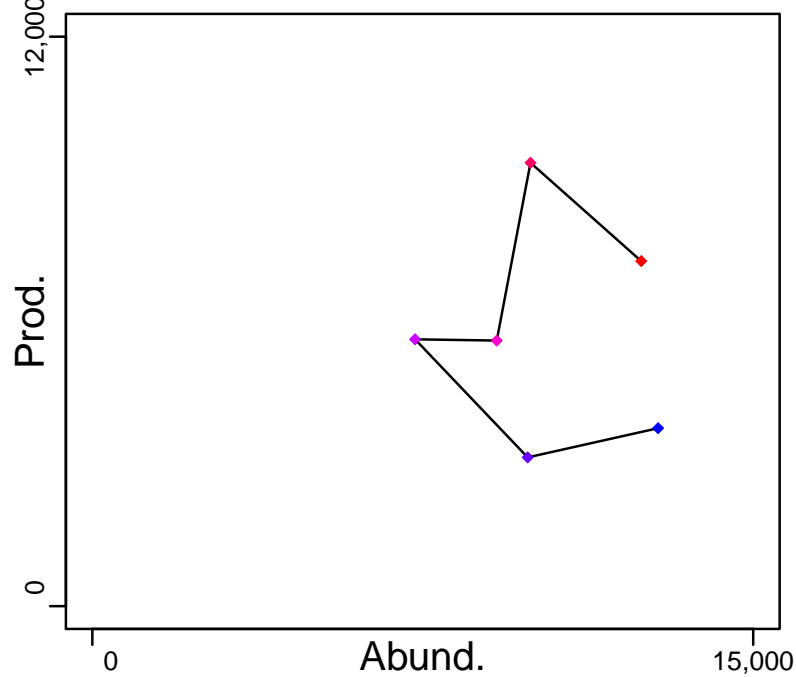
Kobe MGTpref (2008-2014-OSIO)



Spawner Recruit (2008-2014-OSIO)



Production (2008-2014-OSIO)



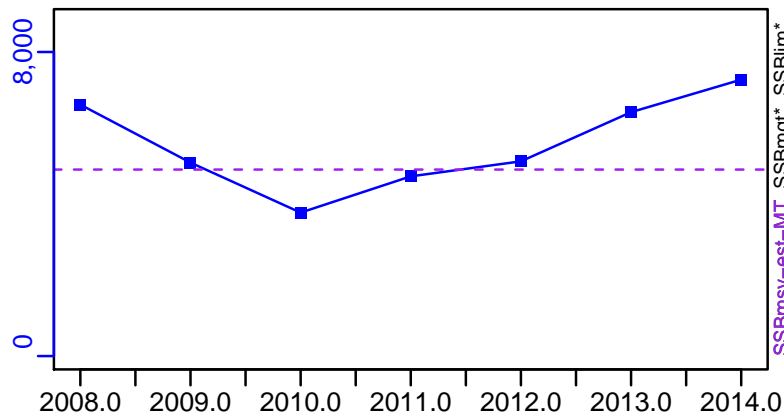
◆ Start Year ◆ End Year * No Data

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

TB*



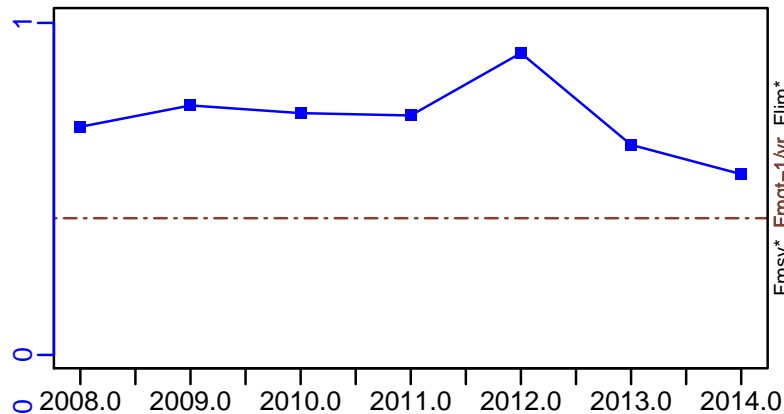
SSB-MT (2008-2014-OSIO)



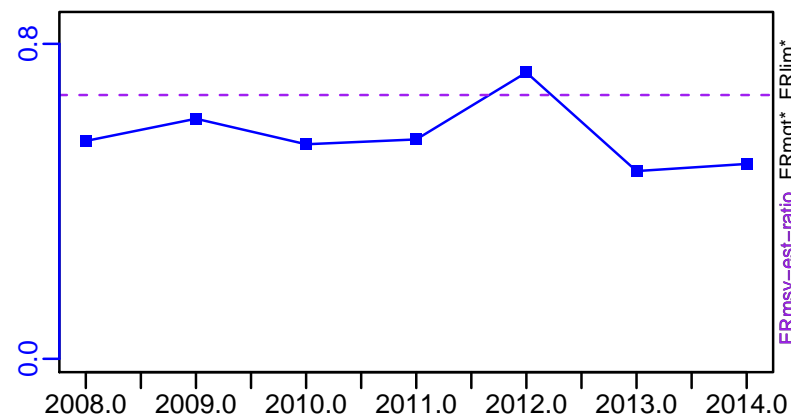
TN *



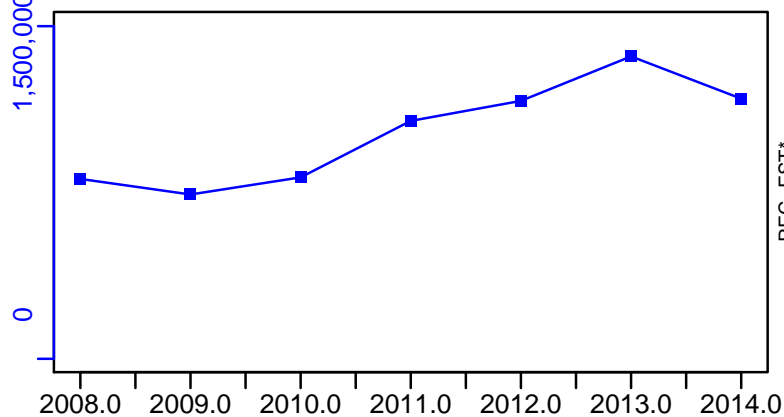
F-1/yr (2008-2014-OSIO)



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

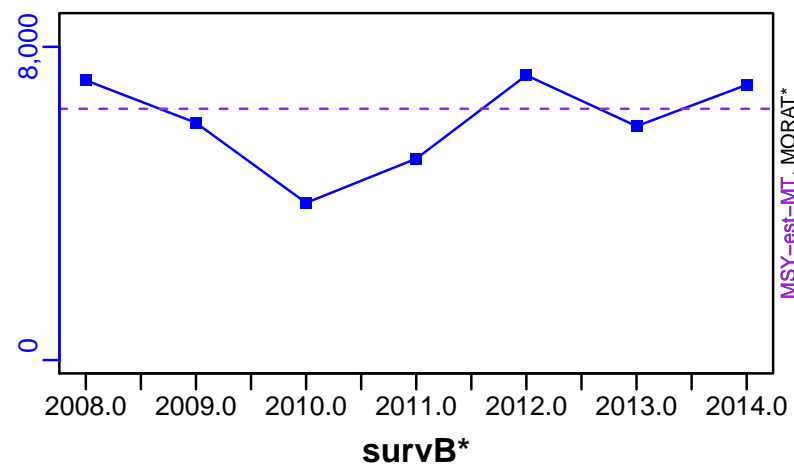


R-E00 (2008-2014-OSIO)



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

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



TAC*, Cpair*, Cadv*



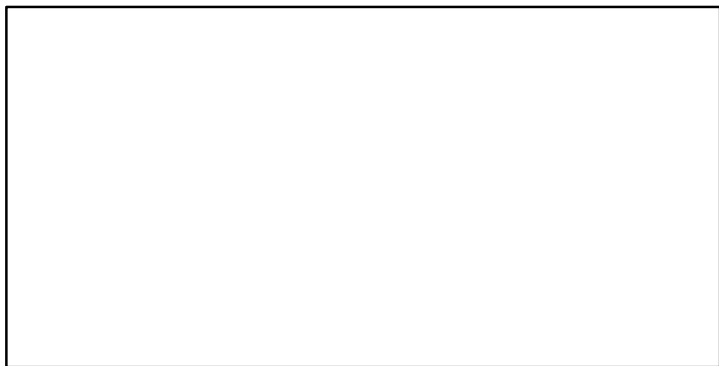
survB*



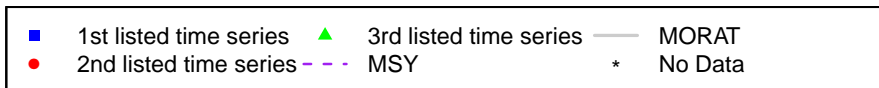
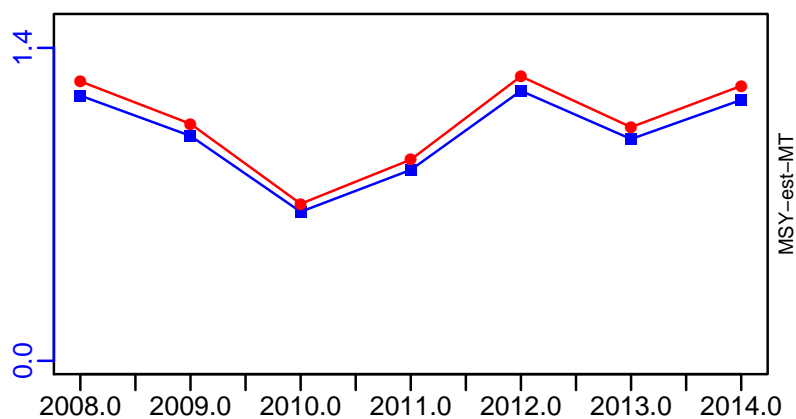
CPUE*



EFFORT*



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



Red mullet Western Ionian Sea [RMULLMEDGSA19]

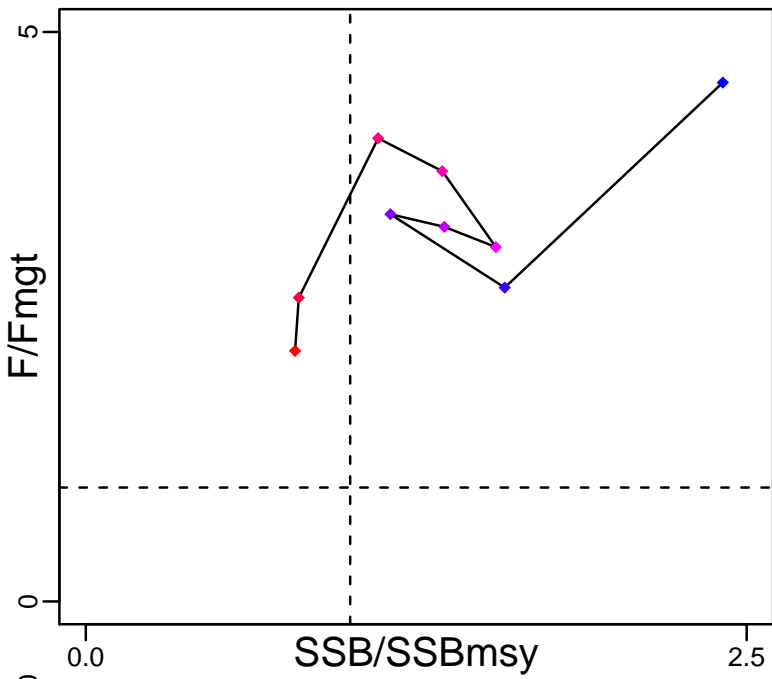
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA19-2006-2014-OSIO |
| Area | Western Ionian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 627 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.298 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.45 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 390 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

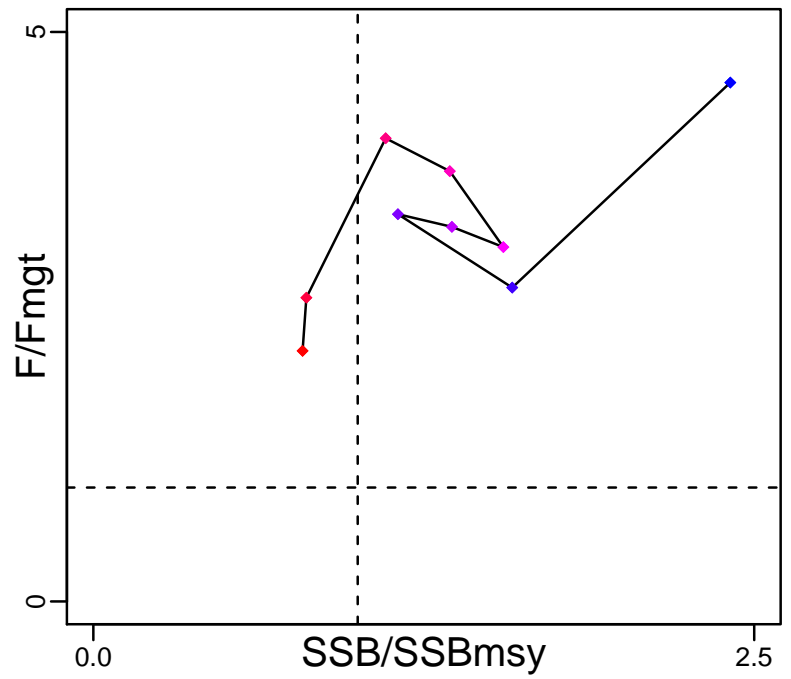
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 496 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 40,100,000 | - | - |
| F | F-1/yr | 2014 | 0.99 | - | - |
| ER | ER-calc-ratio | 2014 | 0.26 | - | - |
| TC | TC-MT | 2014 | 269 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.792 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.872 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 2.2 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Western Ionian Sea [RMULLMEDGSA19]

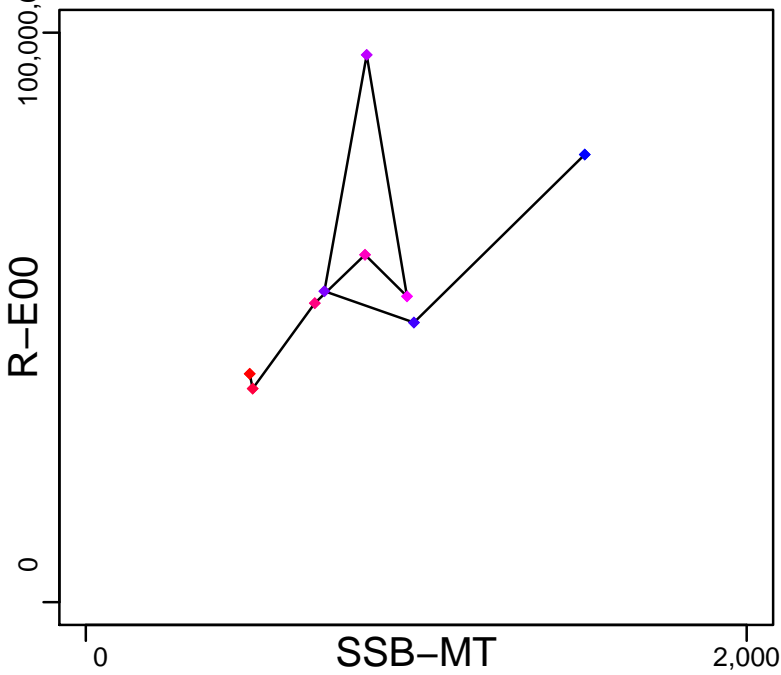
Kobe MSYpref (2006–2014–OSIO)



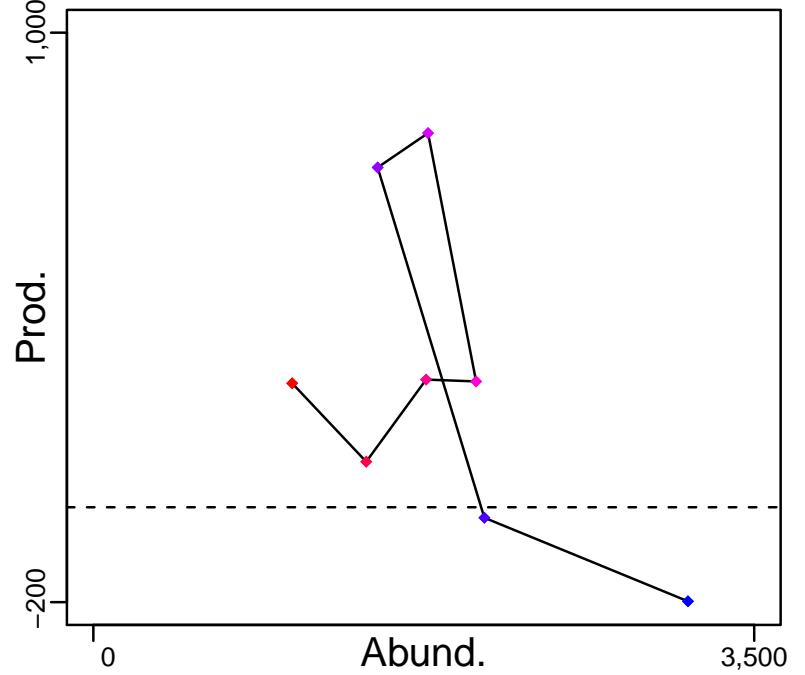
Kobe MGTpref (2006–2014–OSIO)



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



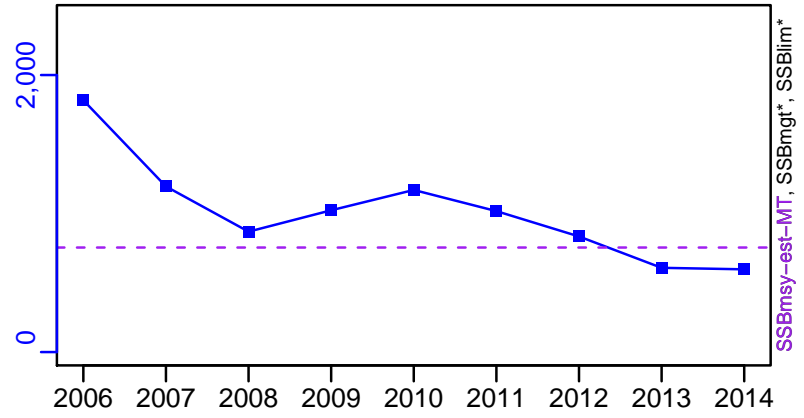
◆ Start Year ◆ End Year * No Data

Red mullet Western Ionian Sea [RMULLMEDGSA19]

TB*



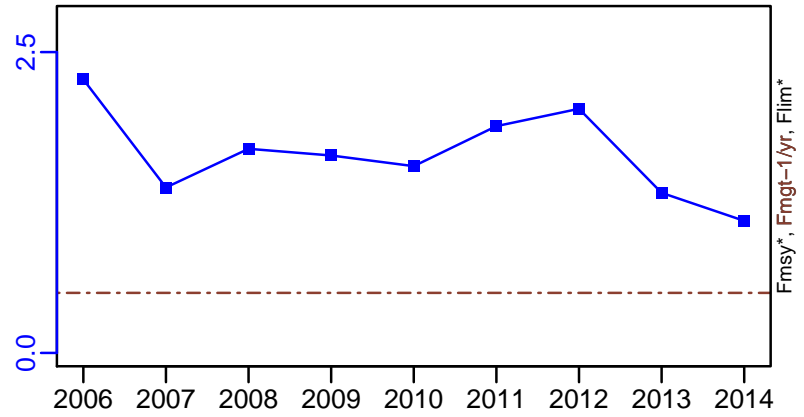
SSB-MT (2006–2014–OSIO)



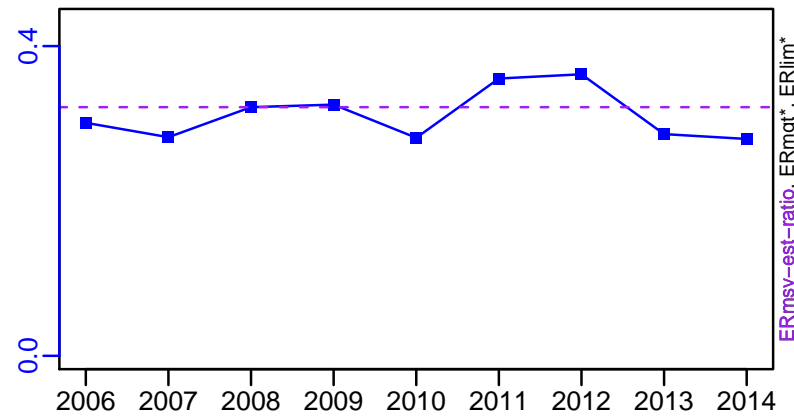
TN *



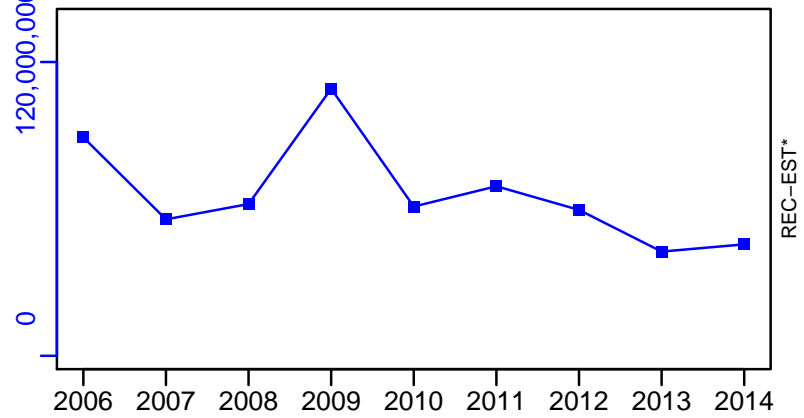
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)

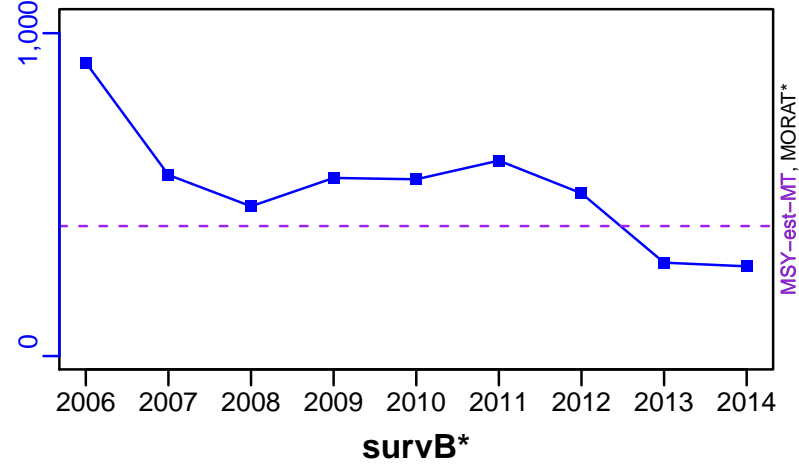


R-E00 (2006–2014–OSIO)



Red mullet Western Ionian Sea [RMULLMEDGSA19]

TC-MT, TL*, RecC* (2006–2014–OSIO)



TAC*, Cpair*, Cadv*



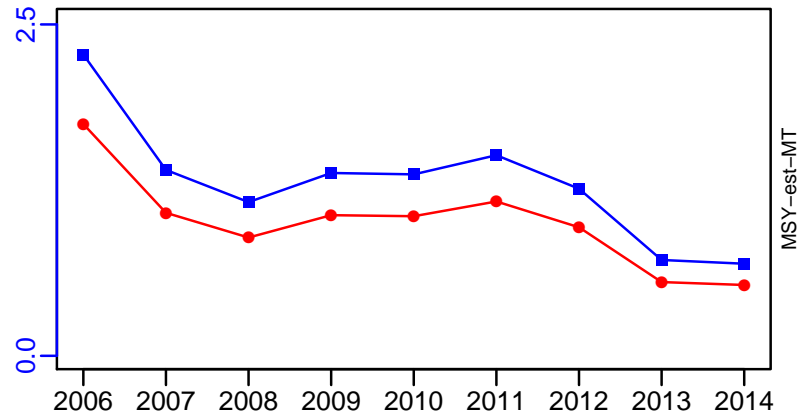
CPUE*



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

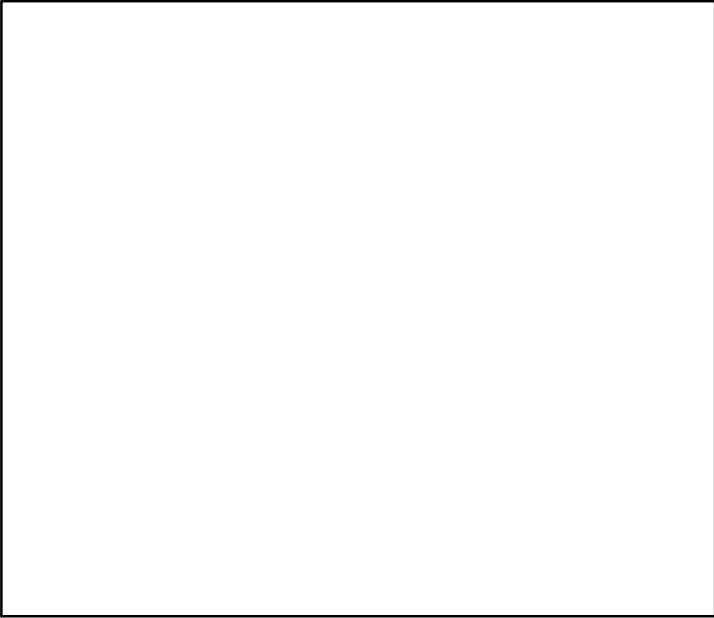
Red mullet Cyprus Island [RMULLMEDGSA25]

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

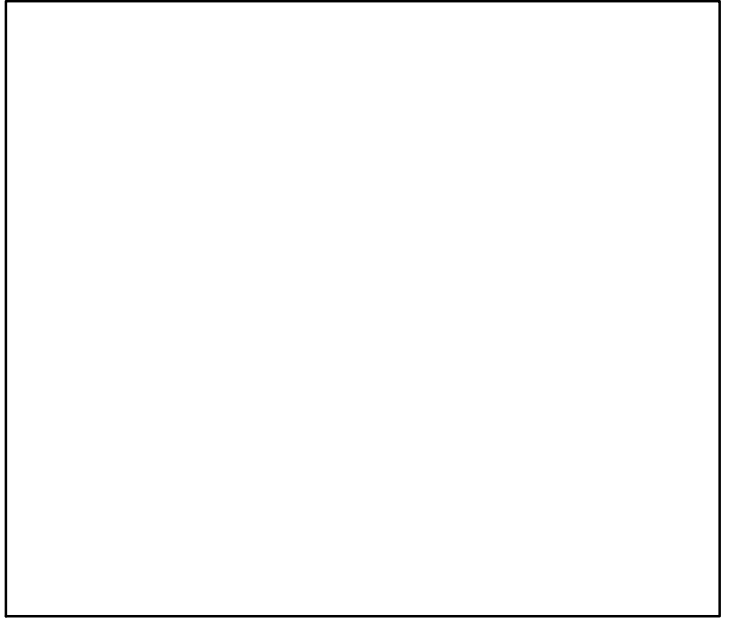
| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2008 | 0.22 |
| ERmgt | - | - | -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

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2008 | 58 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2008 | 1,480,000 | - | - |
| F | F-1/yr | 2008 | 0.84 | - | - |
| ER | ER-calc-ratio | 2008 | 0.266 | - | - |
| TC | TC-MT | 2008 | 33 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2008 | 3.818 | | |
| ER/ERmgt | - | - | - | | |

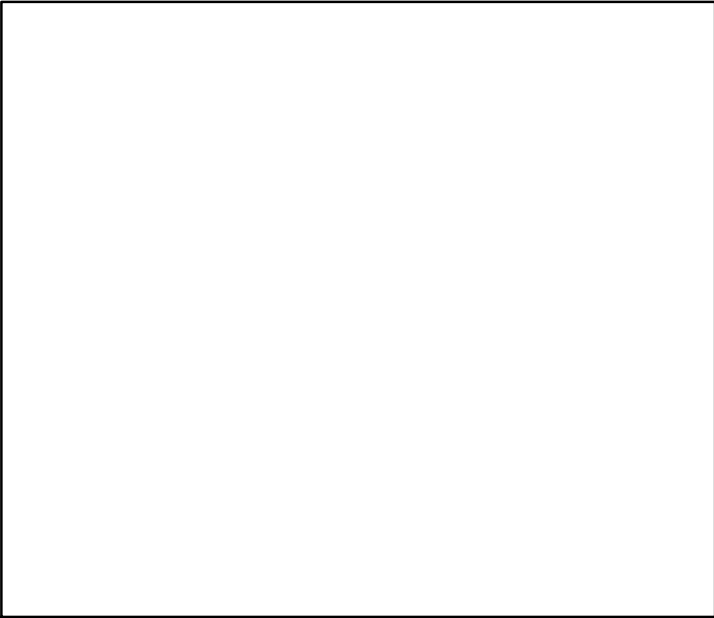
Kobe MSY*



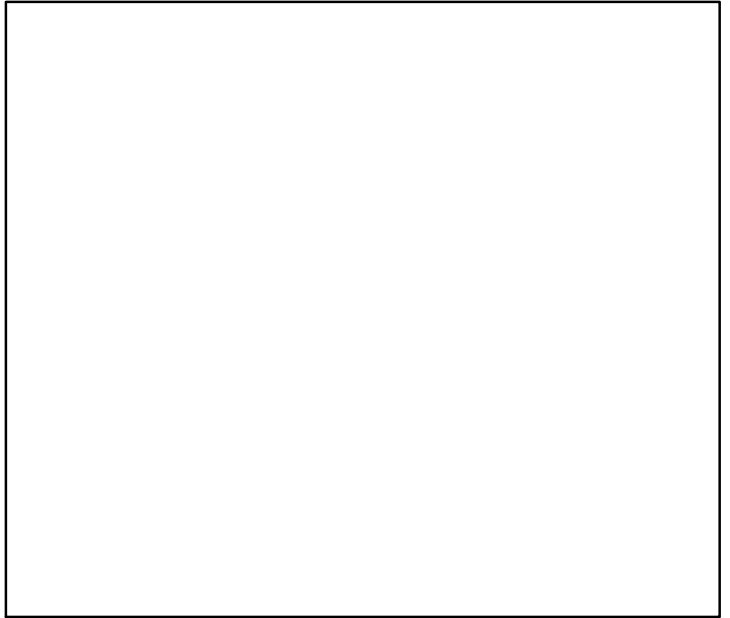
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red mullet Cyprus Island [RMULLMEDGSA25]

TB*



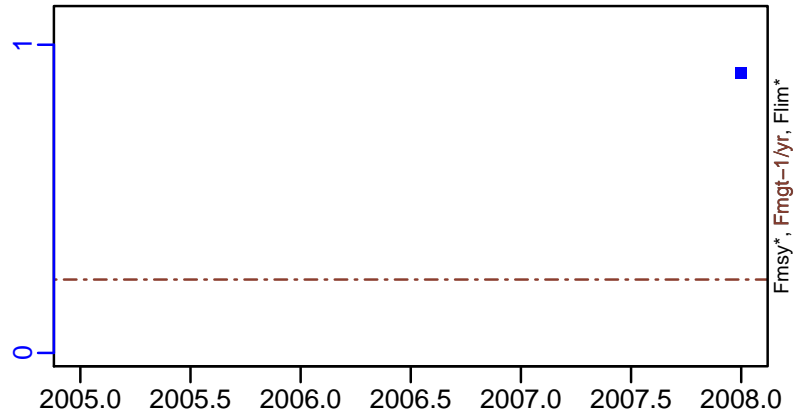
SSB-MT (2005–2008–OSIO)



TN *



F-1/yr (2005–2008–OSIO)



ER-calc-ratio (2005–2008–OSIO)

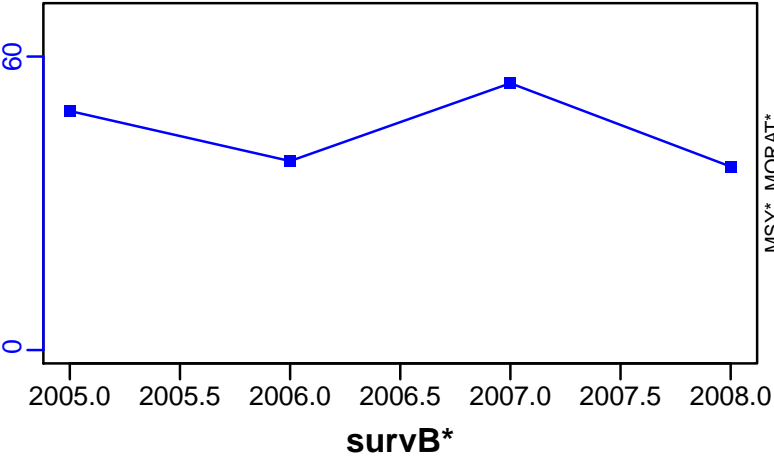


R-E00 (2005–2008–OSIO)

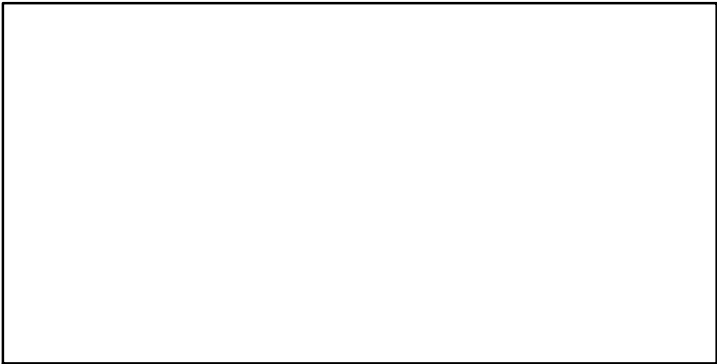


Red mullet Cyprus Island [RMULLMEDGSA25]

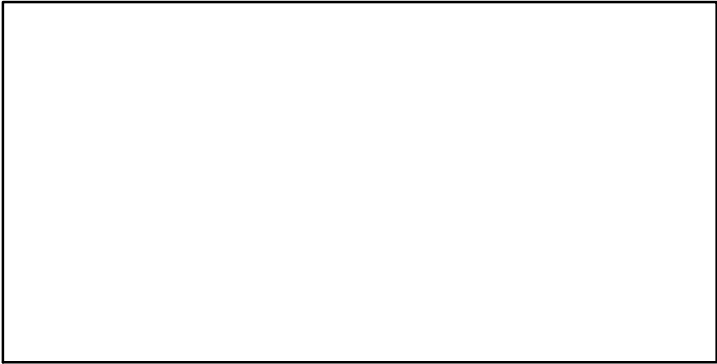
TC-MT, TL*, RecC* (2005-2008-OSIO)



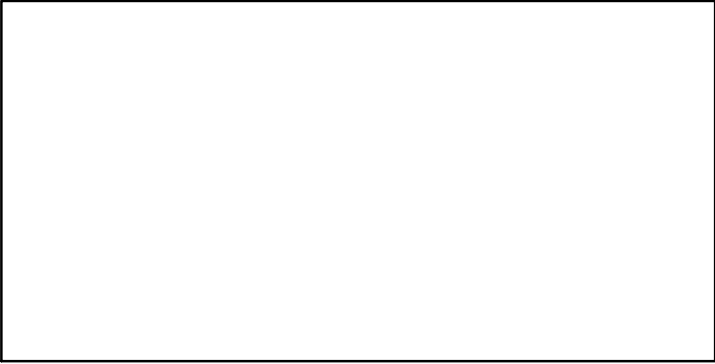
TAC*, Cpair*, Cadv*



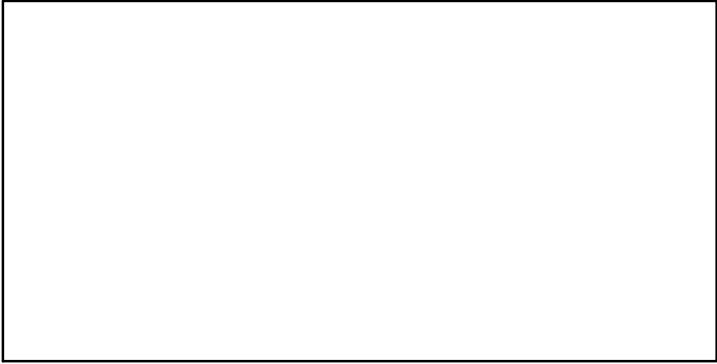
CPUE*



EFFORT*



CdivMSY*



Red mullet Black Sea [RMULLMEDGSA29]

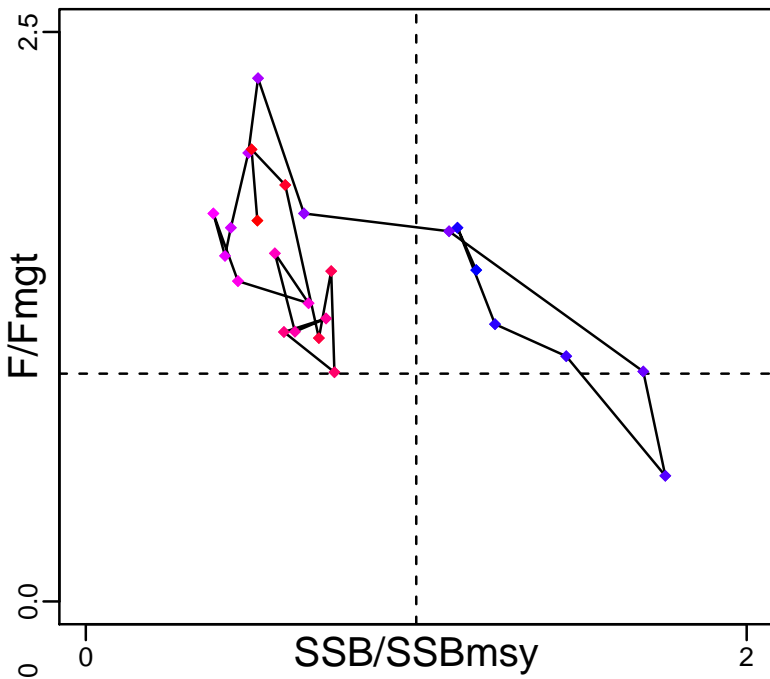
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA29-1990-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 5104 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.281 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.64 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 3000 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

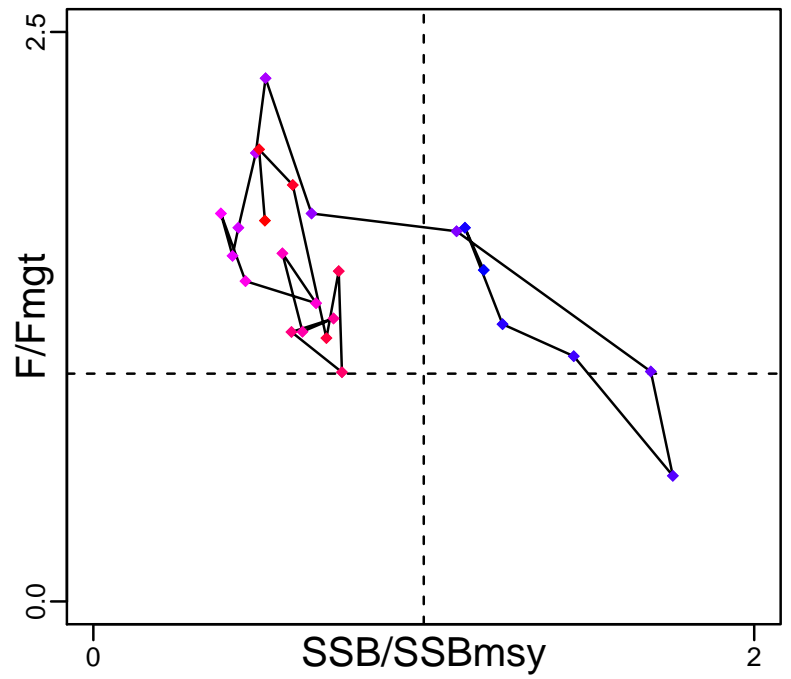
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 2650 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 7.69×10^8 | - | - |
| F | F-1/yr | 2014 | 1.07 | - | - |
| ER | ER-calc-ratio | 2014 | 0.705 | - | - |
| TC | TC-MT | 2014 | 3900 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.519 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 2.503 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.672 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Black Sea [RMULLMEDGSA29]

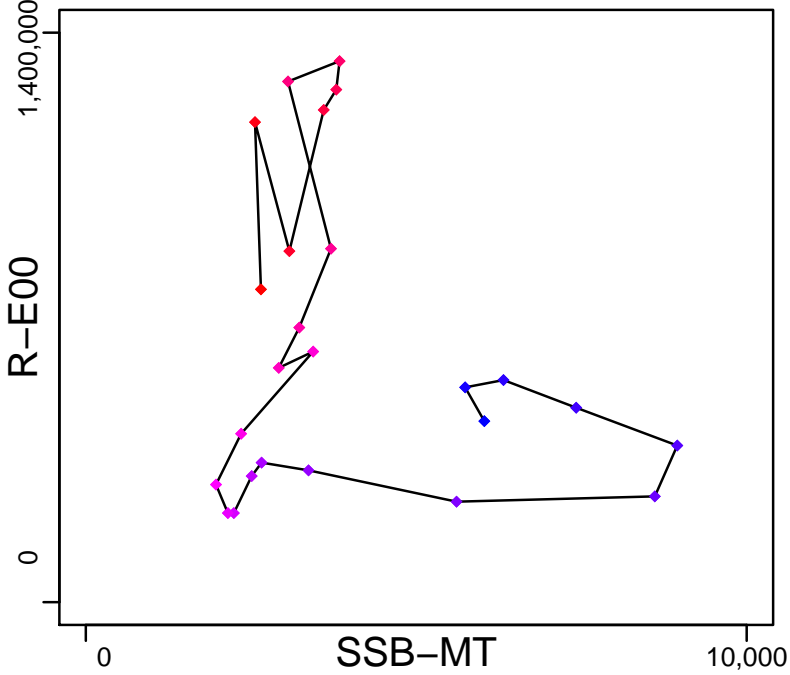
Kobe MSYpref (1990–2014–OSIO)



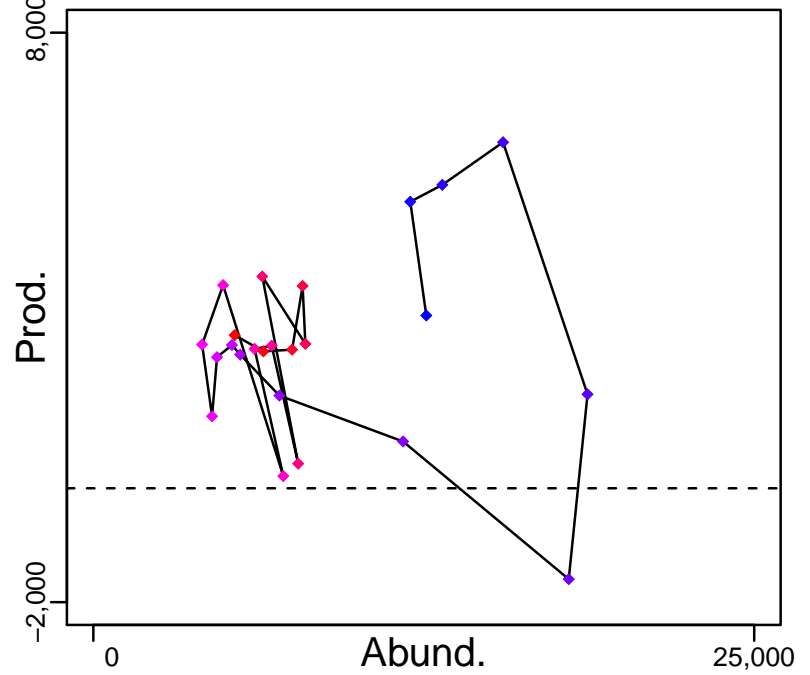
Kobe MGTpref (1990–2014–OSIO)



Spawner Recruit (1990–2014–OSIO)



Production (1990–2014–OSIO)



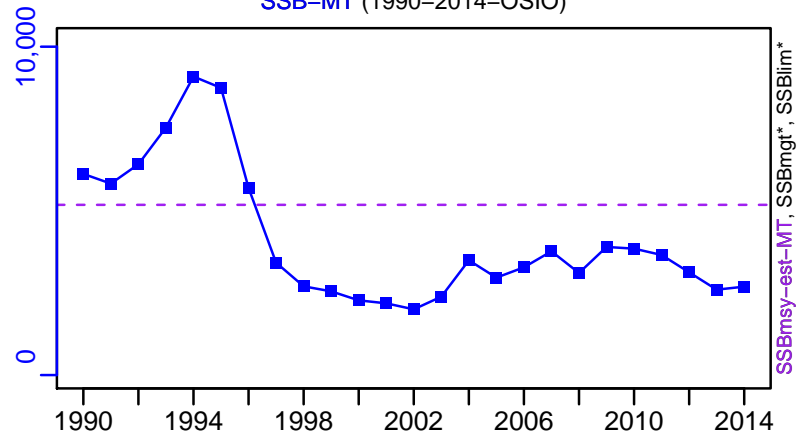
◆ Start Year ◆ End Year * No Data

Red mullet Black Sea [RMULLMEDGSA29]

TB*



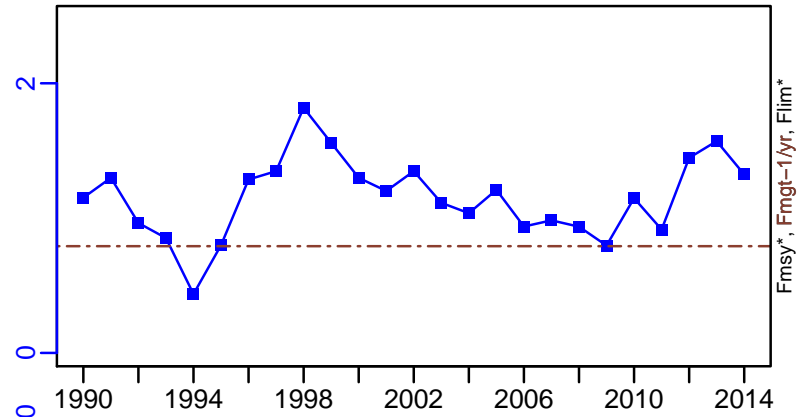
SSB-MT (1990–2014–OSIO)



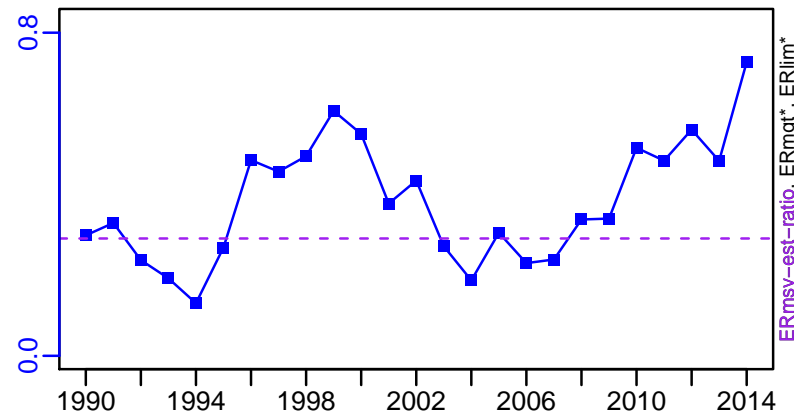
TN *



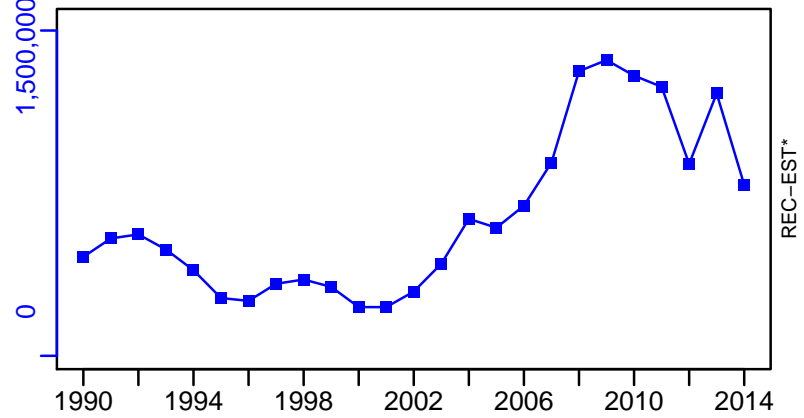
F-1/yr (1990–2014–OSIO)



ER-calc-ratio (1990–2014–OSIO)

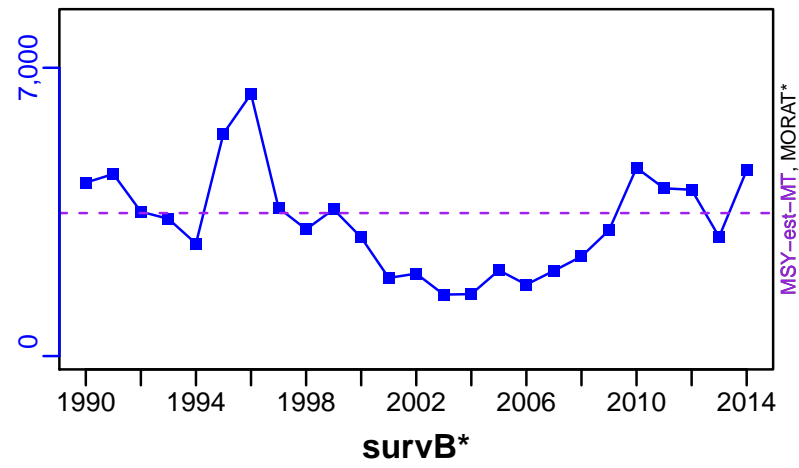


R-E00 (1990–2014–OSIO)



Red mullet Black Sea [RMULLMEDGSA29]

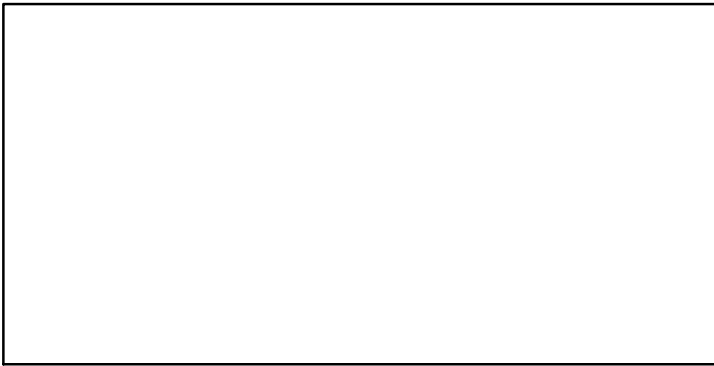
TC-MT, TL*, RecC* (1990–2014–OSIO)



TAC*, Cpair*, Cadv*



survB*



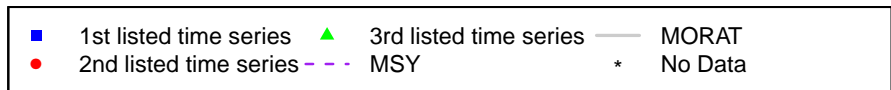
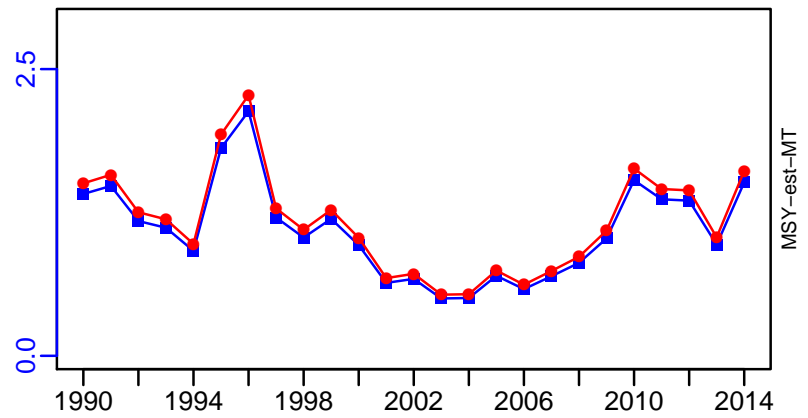
CPUE*



EFFORT*



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



Red mullet Balearic Island [RMULLMEDGSA5]

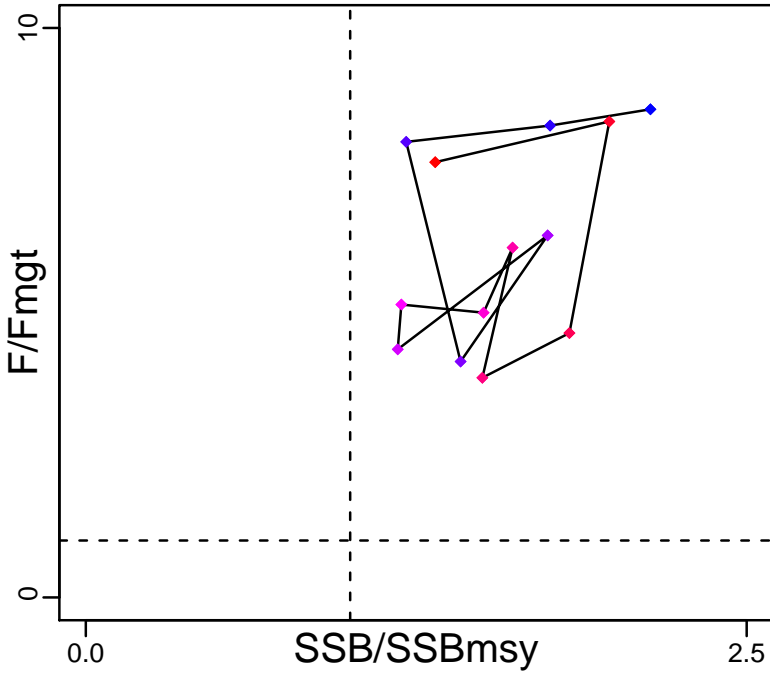
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA5-2000-2012-OSIO |
| Area | Balearic Island |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2012 | 22 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.478 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.14 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 22 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

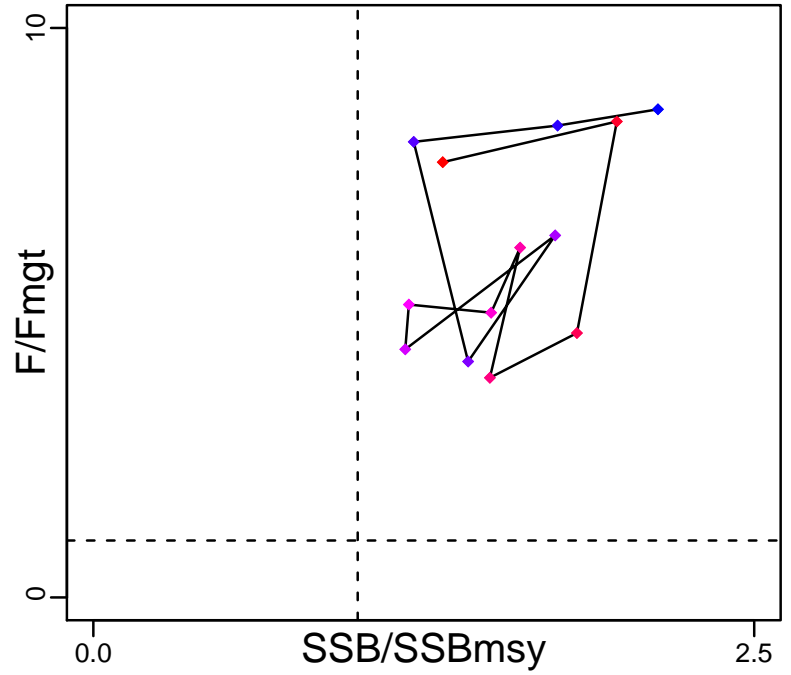
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 29 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 1,050,000 | - | - |
| F | F-1/yr | 2012 | 1.07 | - | - |
| ER | ER-calc-ratio | 2012 | 0.266 | - | - |
| TC | TC-MT | 2012 | 16 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2012 | 1.322 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 0.557 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 7.643 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Balearic Island [RMULLMEDGSA5]

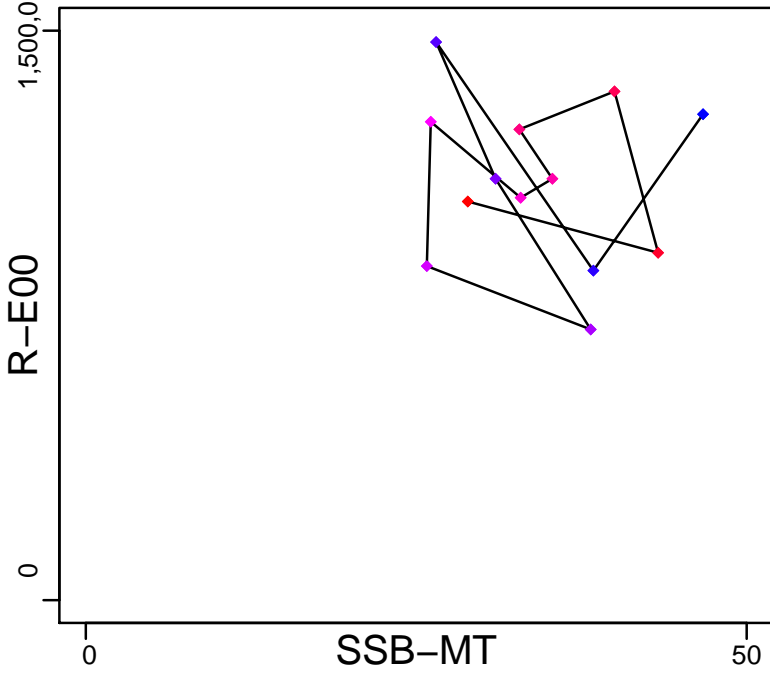
Kobe MSYpref (2000–2012–OSIO)



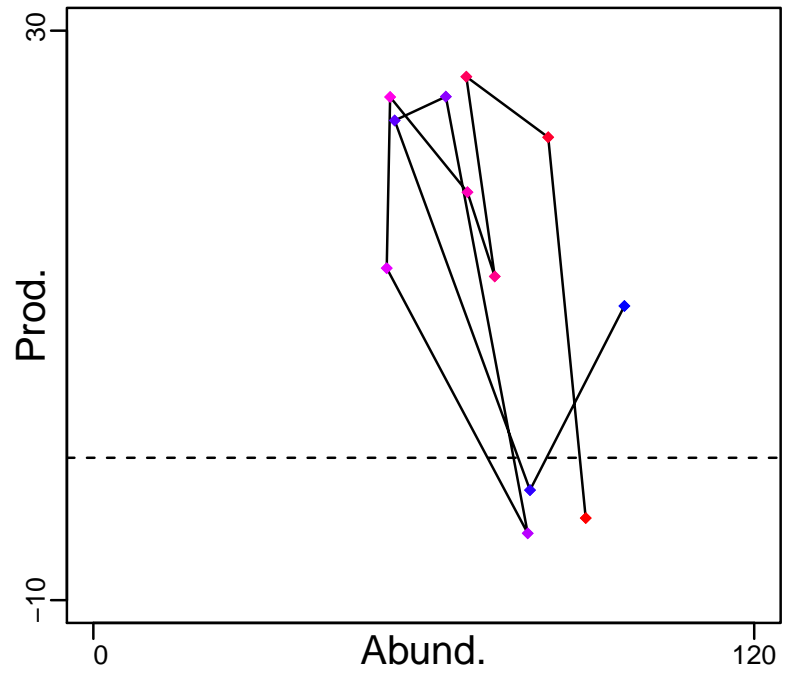
Kobe MGTpref (2000–2012–OSIO)



Spawner Recruit (2000–2012–OSIO)



Production (2000–2012–OSIO)



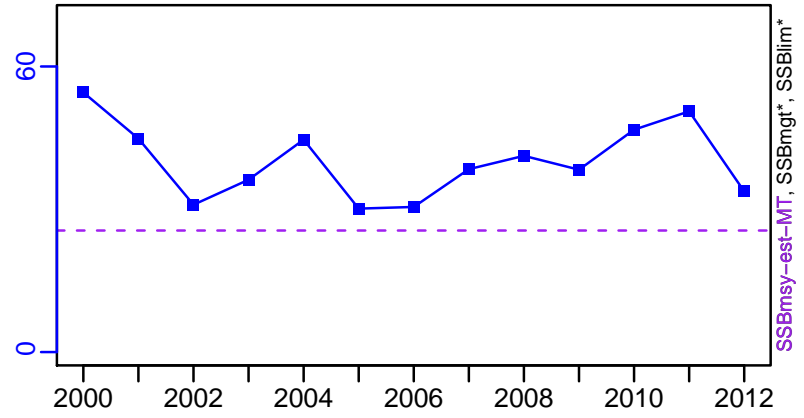
◆ Start Year ◆ End Year * No Data

Red mullet Balearic Island [RMULLMEDGSA5]

TB*



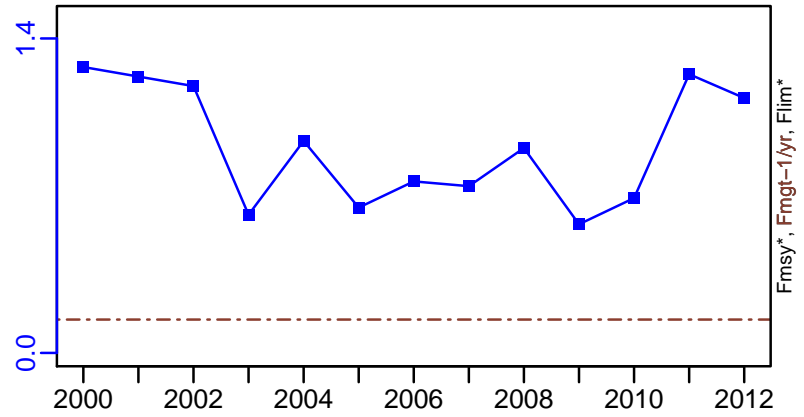
SSB-MT (2000–2012–OSIO)



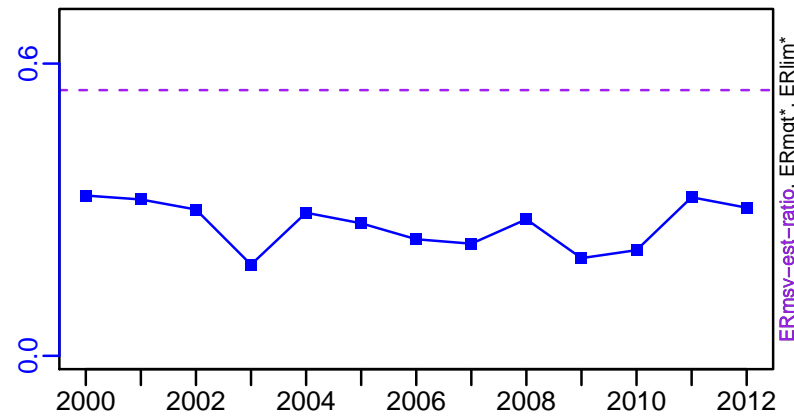
TN *



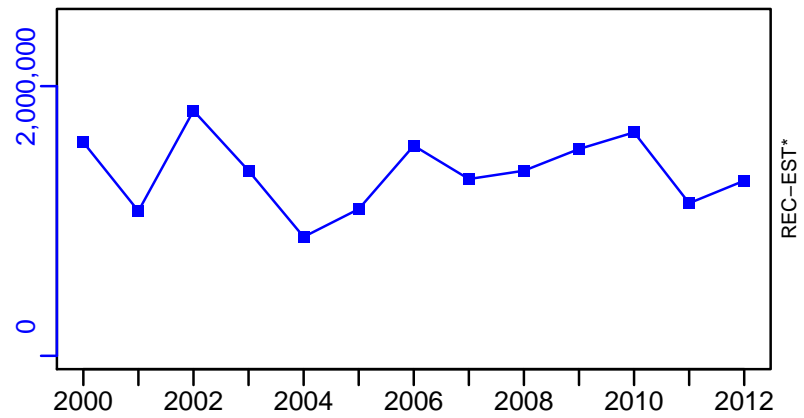
F-1/yr (2000–2012–OSIO)



ER-calc-ratio (2000–2012–OSIO)

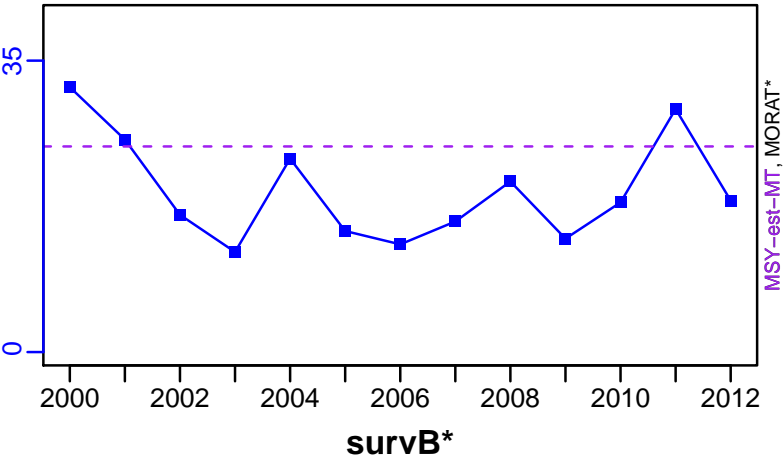


R-E00 (2000–2012–OSIO)



Red mullet Balearic Island [RMULLMEDGSA5]

TC-MT, TL*, RecC* (2000–2012–OSIO)



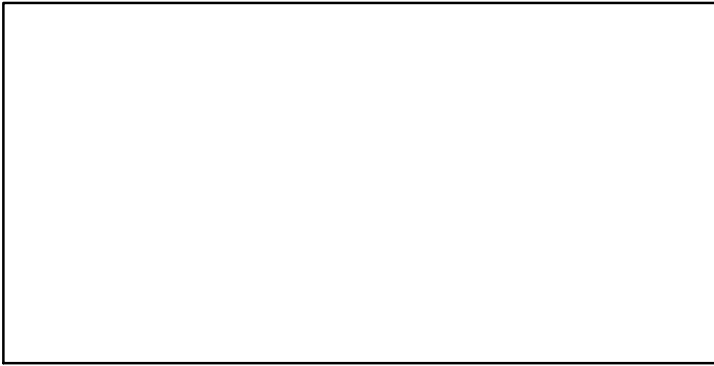
TAC*, Cpair*, Cadv*



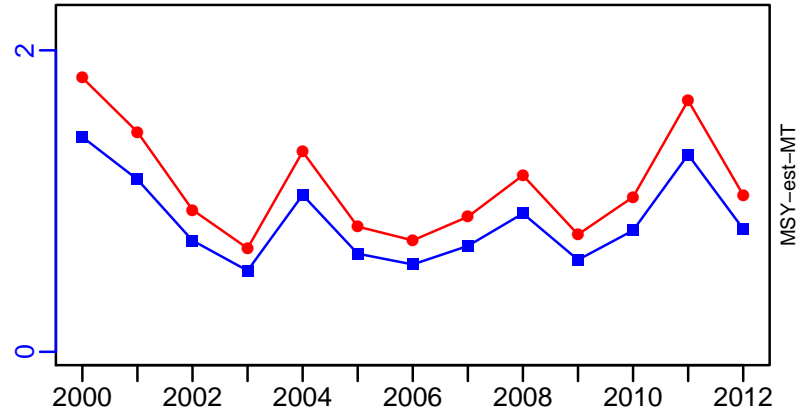
CPUE*



EFFORT*



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



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

Red mullet Northern Spain [RMULLMEDGSA6]

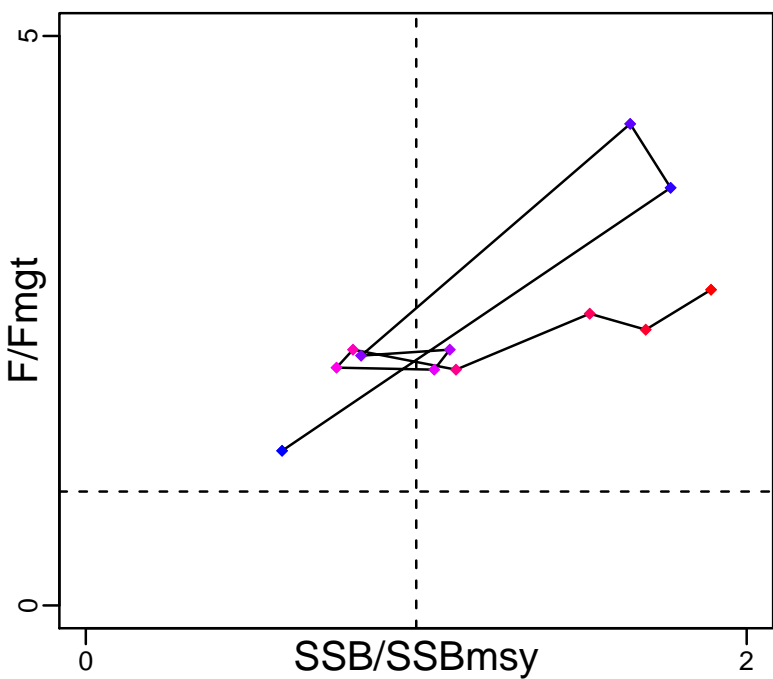
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA6-2002-2013-OSIO |
| Area | Northern Spain |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 1062 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.516 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.57 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 1297 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

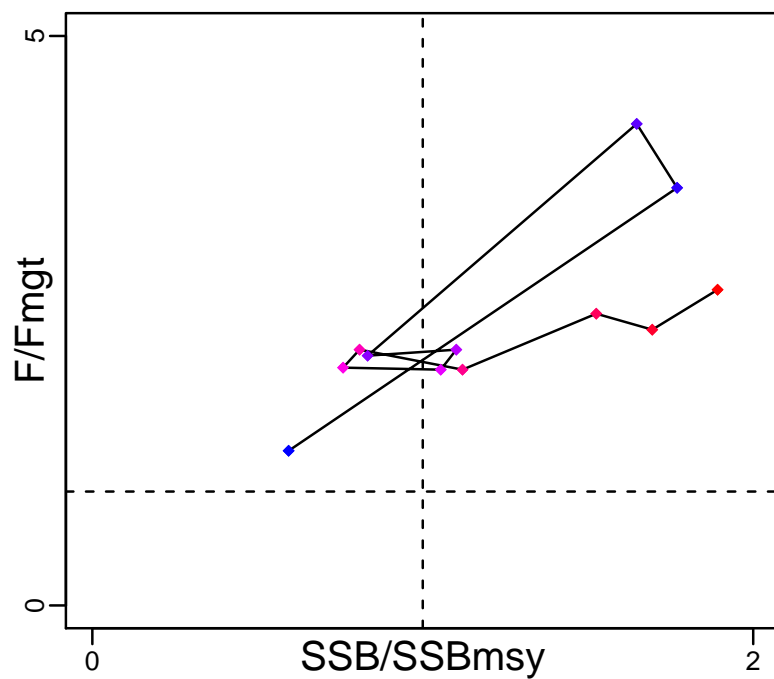
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 2010 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 86,300,000 | - | - |
| F | F-1/yr | 2013 | 1.58 | - | - |
| ER | ER-calc-ratio | 2013 | 0.263 | - | - |
| TC | TC-MT | 2013 | 1250 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 1.892 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.51 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 2.772 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Northern Spain [RMULLMEDGSA6]

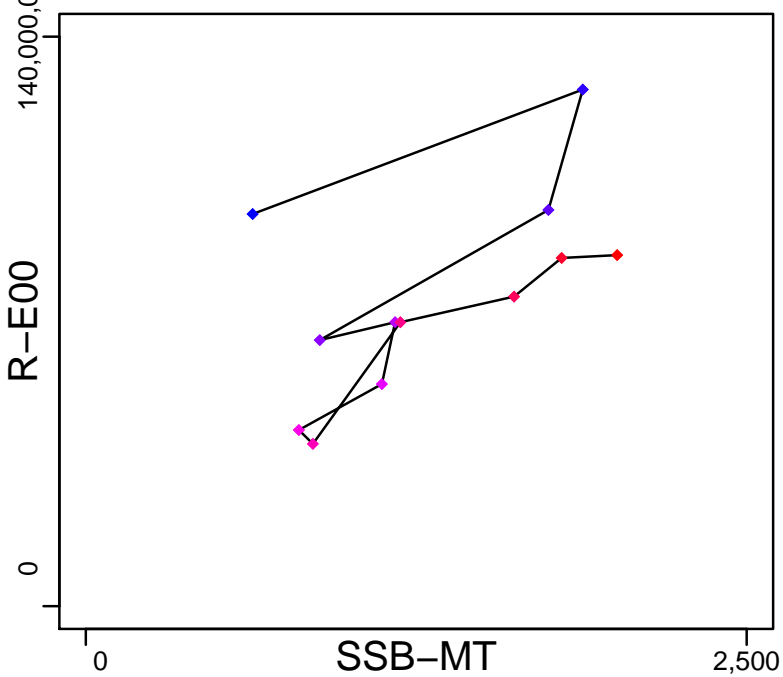
Kobe MSYpref (2002–2013–OSIO)



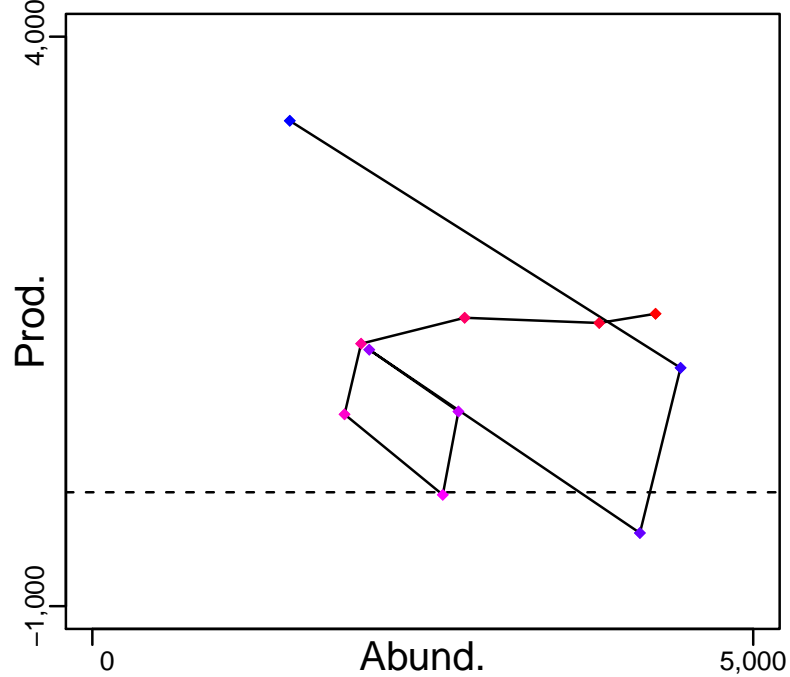
Kobe MGTpref (2002–2013–OSIO)



Spawner Recruit (2002–2013–OSIO)



Production (2002–2013–OSIO)



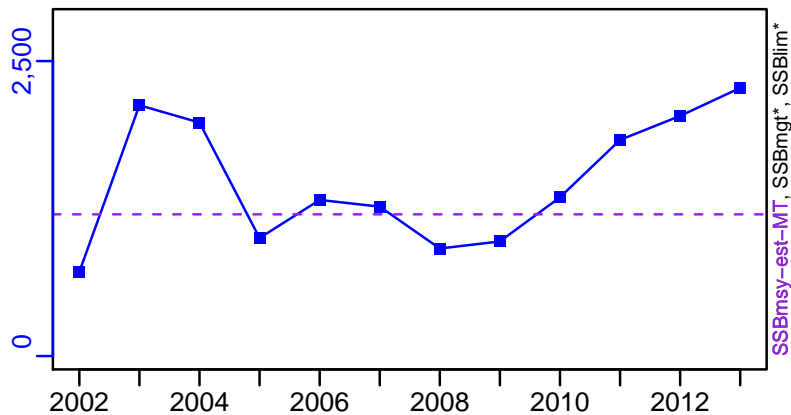
◆ Start Year ◆ End Year * No Data

Red mullet Northern Spain [RMULLMEDGSA6]

TB*



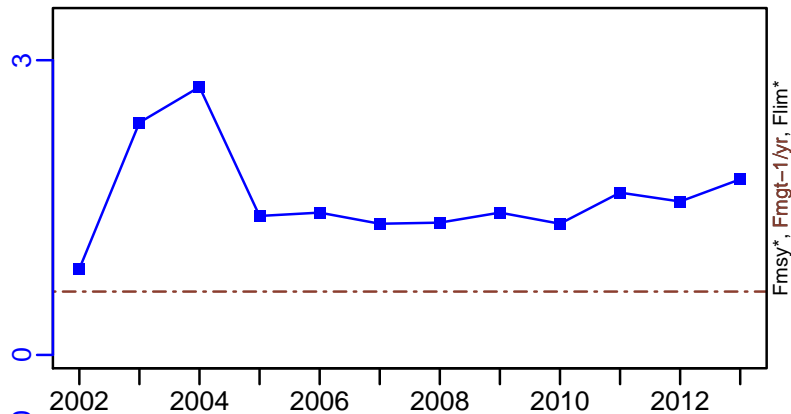
SSB-MT (2002–2013–OSIO)



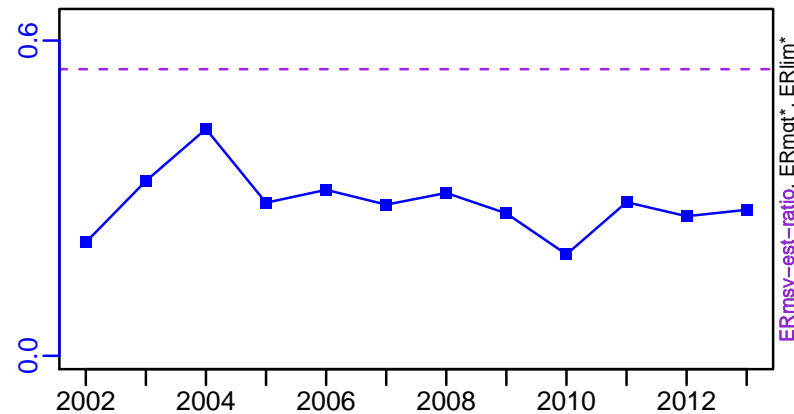
TN *



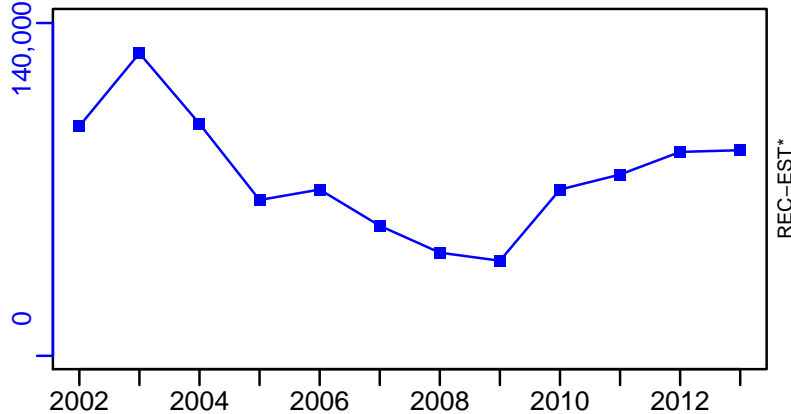
F-1/yr (2002–2013–OSIO)



ER-calc-ratio (2002–2013–OSIO)

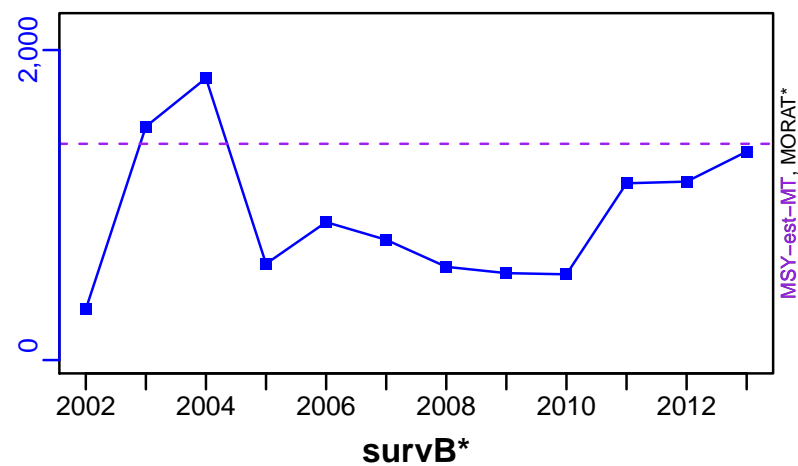


R-E00 (2002–2013–OSIO)



Red mullet Northern Spain [RMULLMEDGSA6]

TC-MT, TL*, RecC* (2002–2013–OSIO)



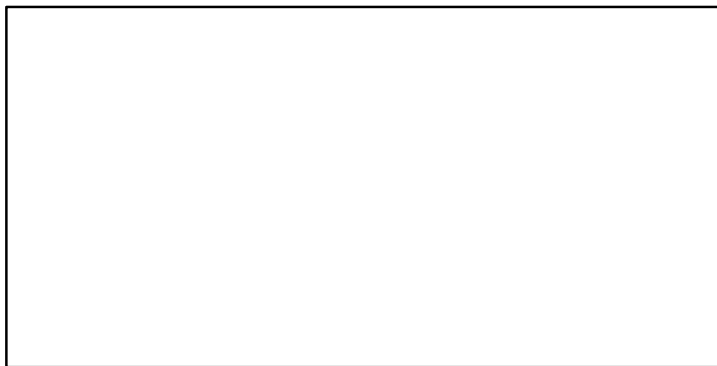
TAC*, Cpair*, Cadv*



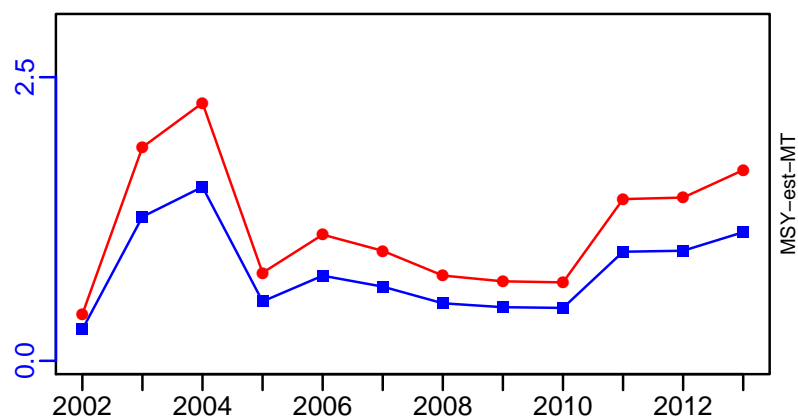
CPUE*



EFFORT*



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



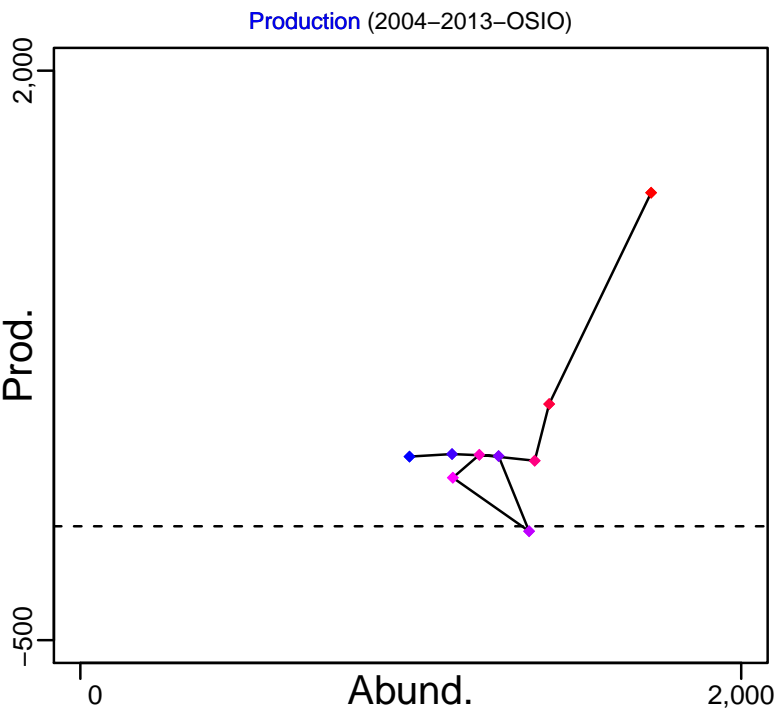
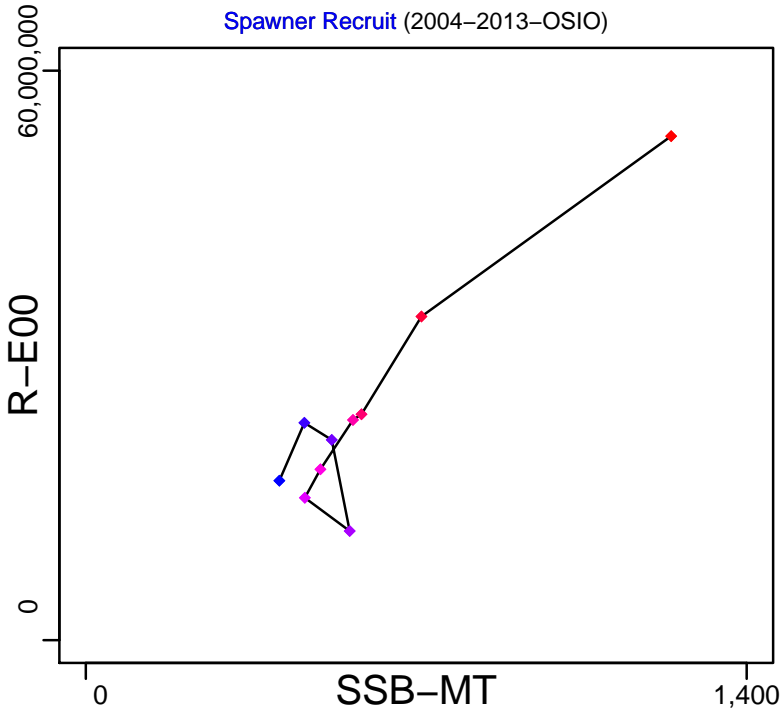
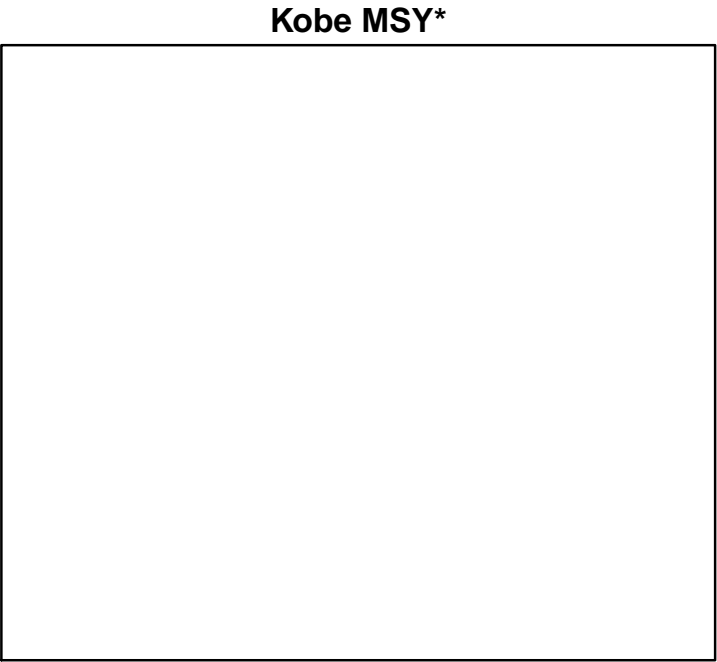
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Red mullet Gulf of Lions [RMULLMEDGSA7]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.14 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 1240 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 53,100,000 | - | - |
| F | F-1/yr | 2013 | 0.435 | - | - |
| ER | ER-calc-ratio | 2013 | 0.099 | - | - |
| TC | TC-MT | 2013 | 297 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 3.107 | | |
| ER/ERmgt | - | - | - | | |



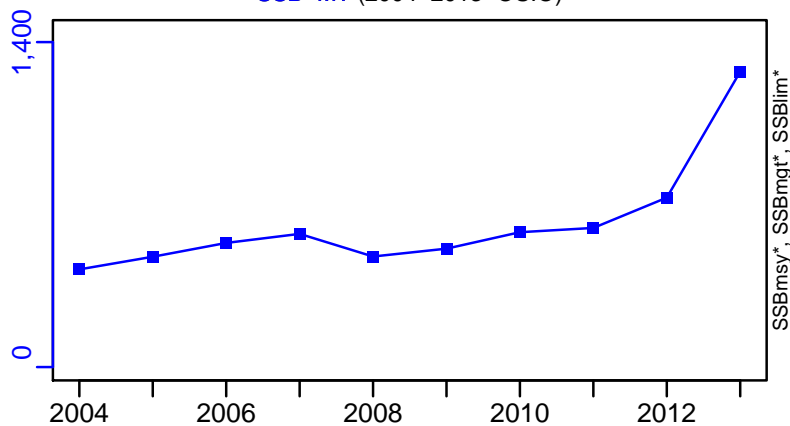
◆ Start Year ◆ End Year * No Data

Red mullet Gulf of Lions [RMULLMEDGSA7]

TB*



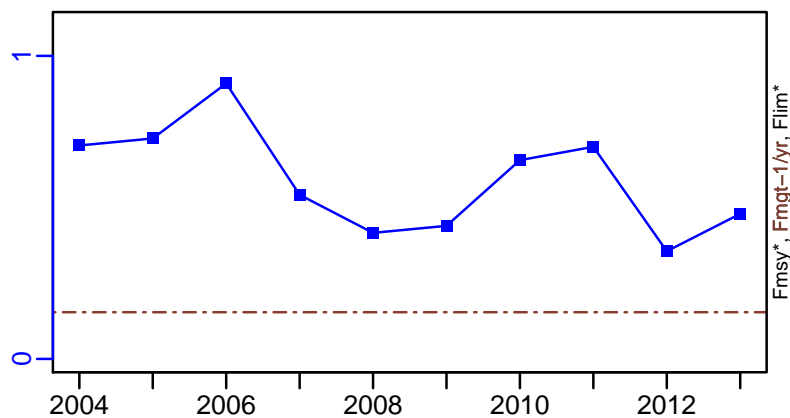
SSB-MT (2004–2013–OSIO)



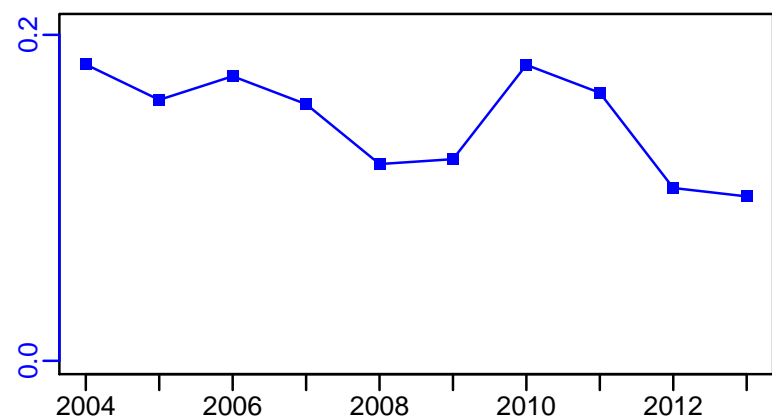
TN *



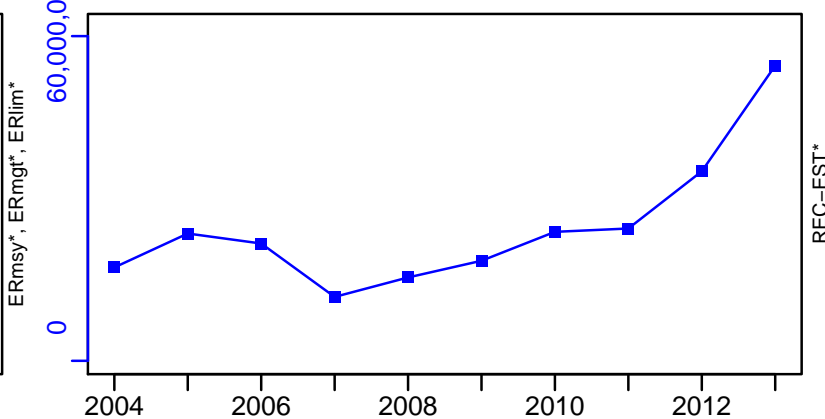
F-1/yr (2004–2013–OSIO)



ER-calc-ratio (2004–2013–OSIO)



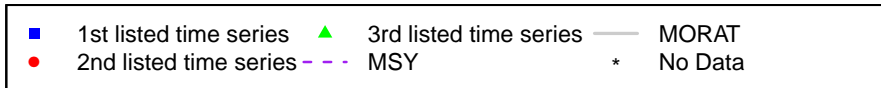
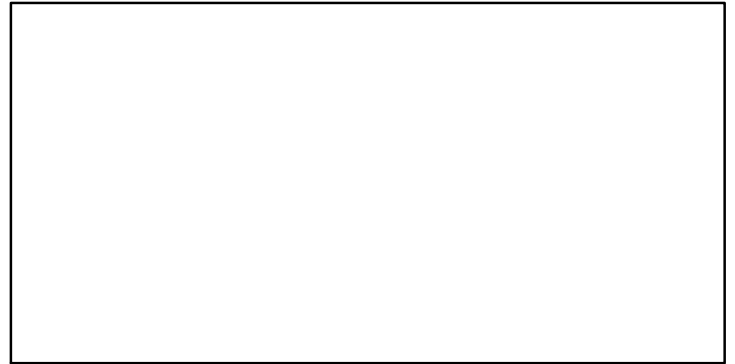
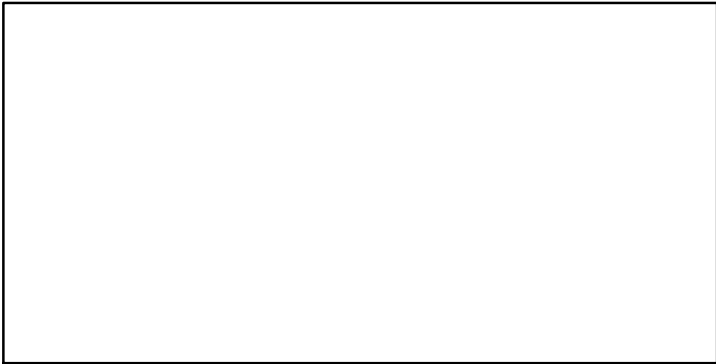
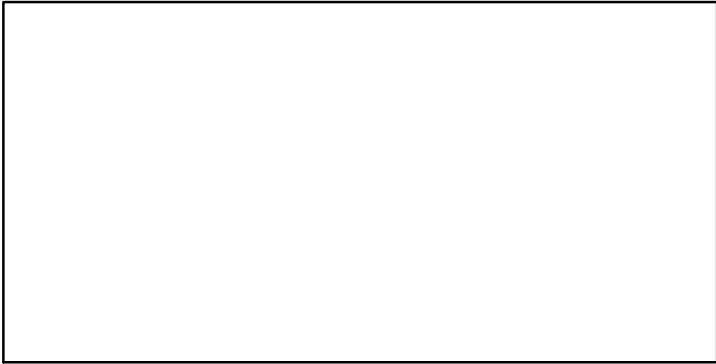
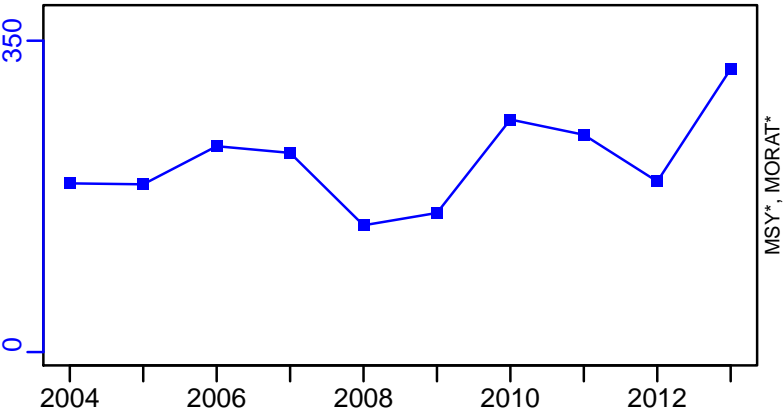
R-E00 (2004–2013–OSIO)



Red mullet Gulf of Lions [RMULLMEDGSA7]

TC-MT, TL*, RecC* (2004–2013–OSIO)

TAC*, Cpair*, Cadv*



Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

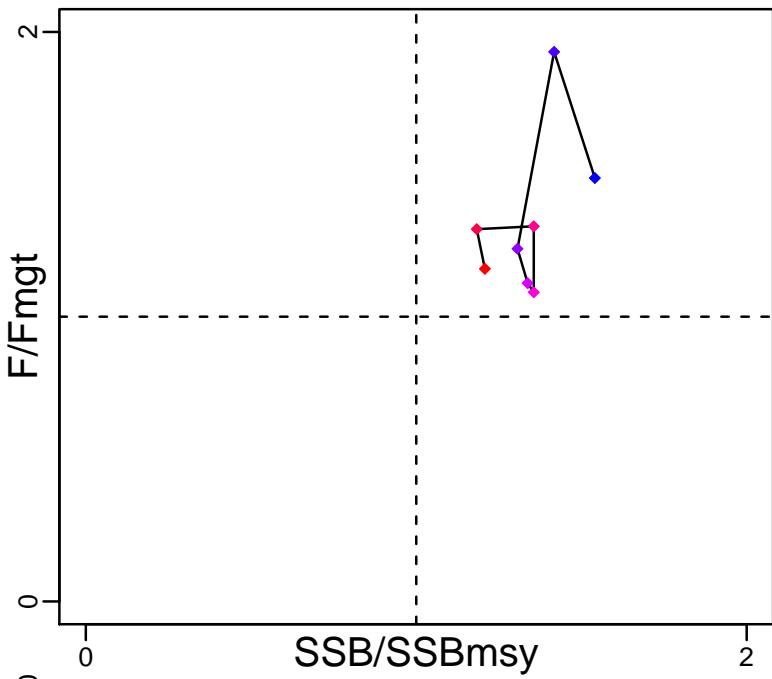
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus barbatus |
| Current Assess ID | STECF-RMULLMEDGSA9-2006-2013-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 1623 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2013 | 0.225 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2013 | 0.596 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 778 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

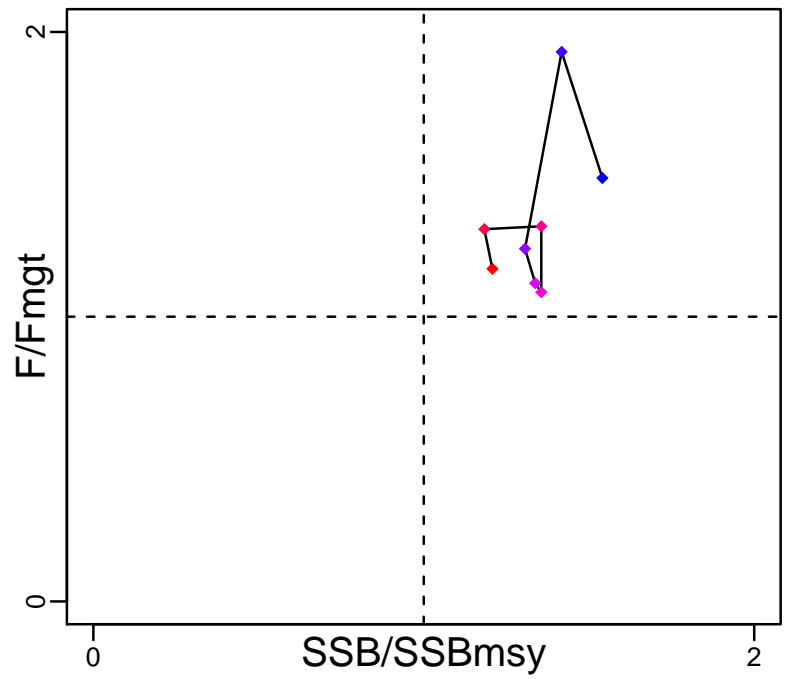
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2013 | 1960 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2013 | 1.63×10^8 | - | - |
| F | F-1/yr | 2013 | 0.696 | - | - |
| ER | ER-calc-ratio | 2013 | 0.176 | - | - |
| TC | TC-MT | 2013 | 736 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 1.208 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.783 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2013 | 1.168 | | |
| ER/ERmgt | - | - | - | | |

Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

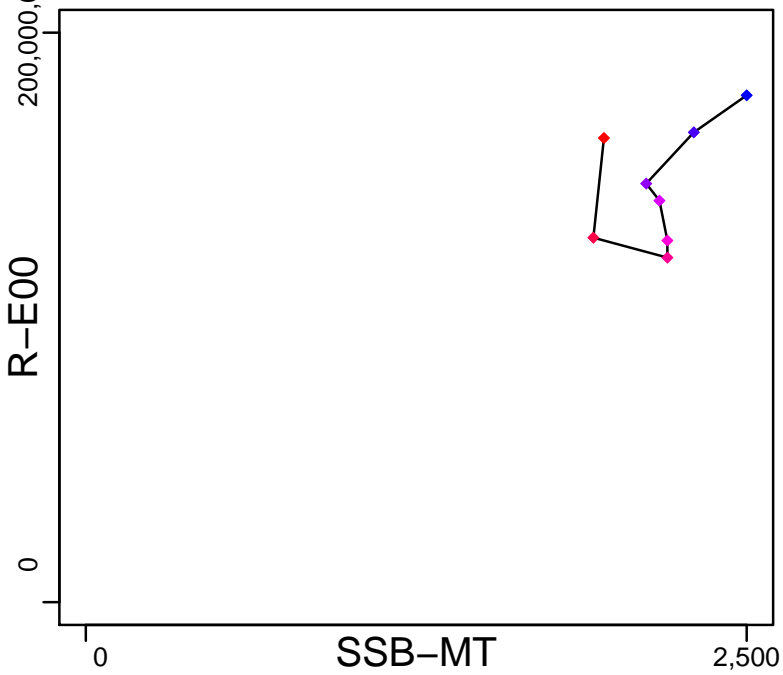
Kobe MSYpref (2006–2013–OSIO)



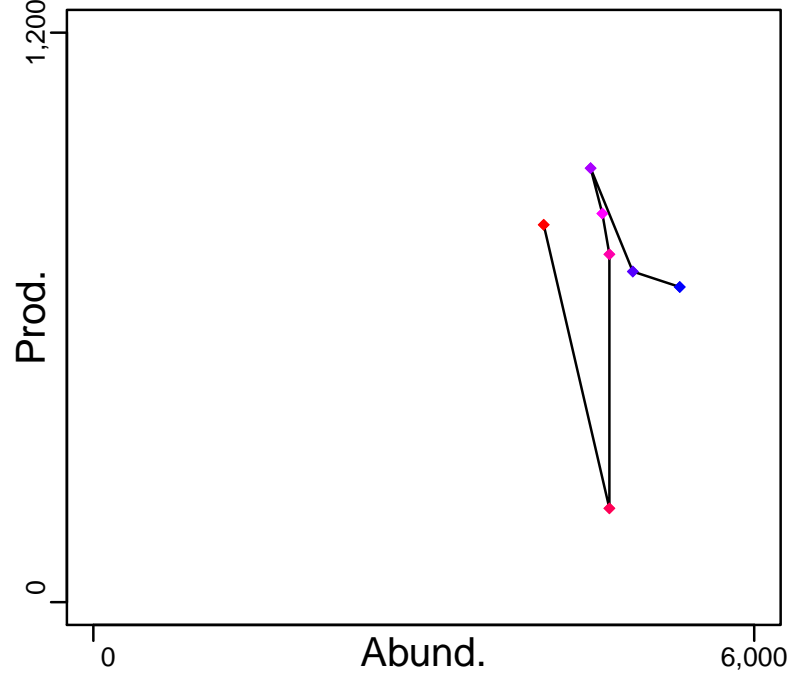
Kobe MGTpref (2006–2013–OSIO)



Spawner Recruit (2006–2013–OSIO)



Production (2006–2013–OSIO)



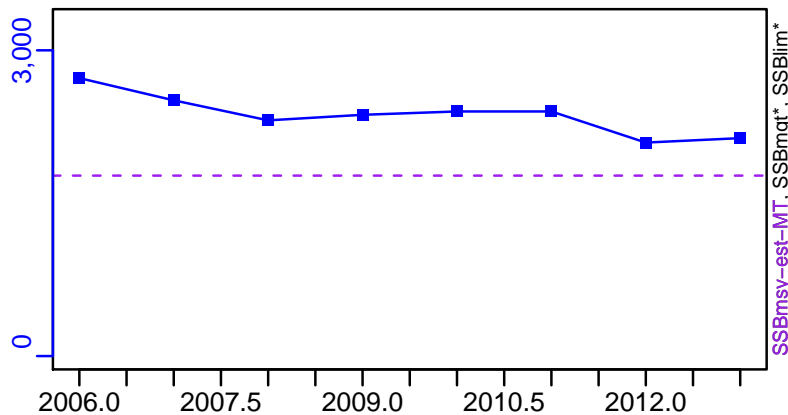
◆ Start Year ◆ End Year * No Data

Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

TB*



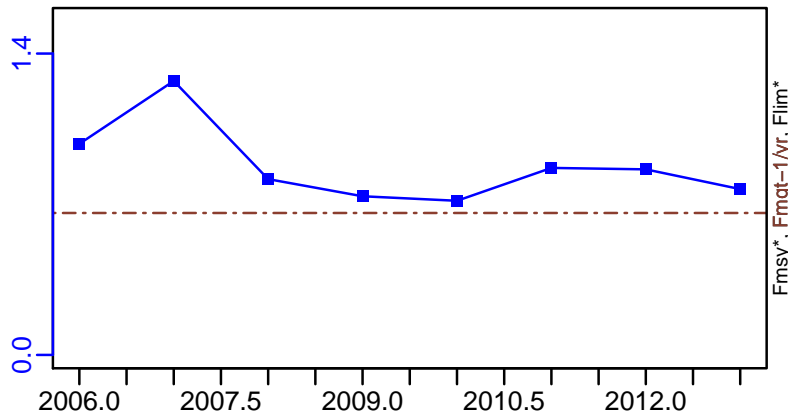
SSB-MT (2006–2013–OSIO)



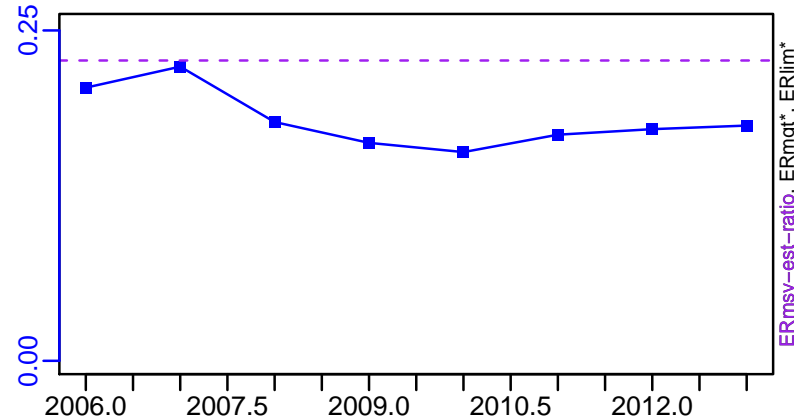
TN *



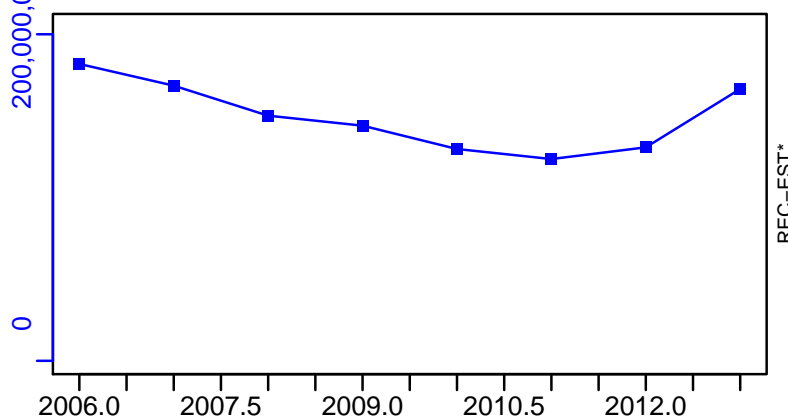
F-1/yr (2006–2013–OSIO)



ER-calc-ratio (2006–2013–OSIO)



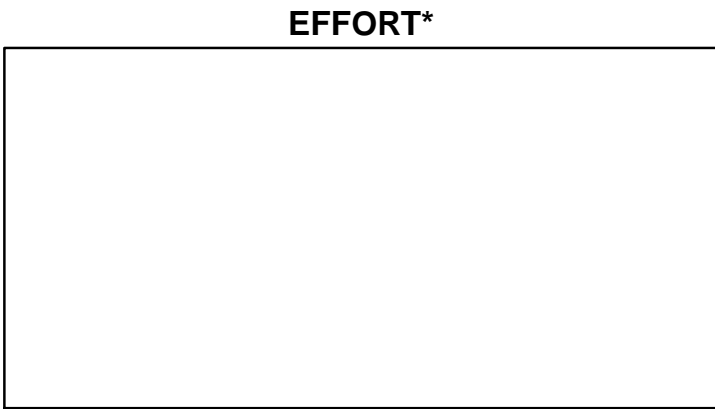
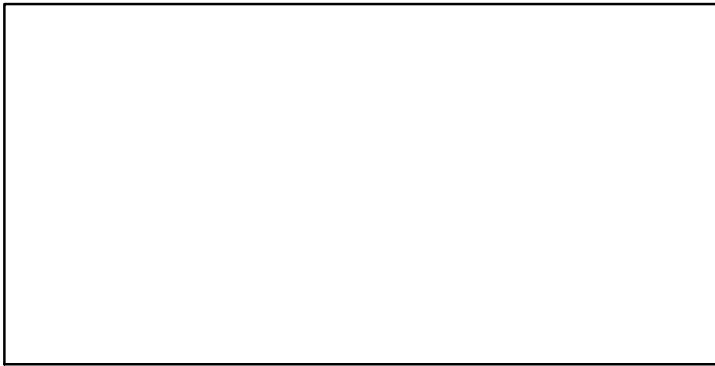
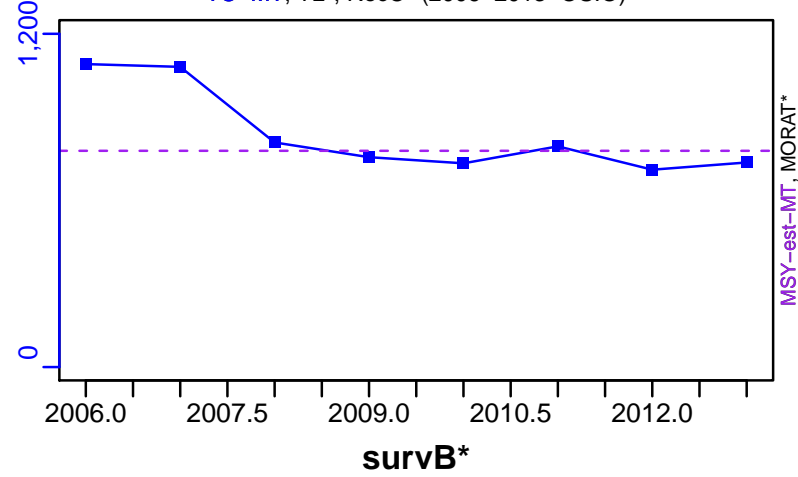
R-E00 (2006–2013–OSIO)



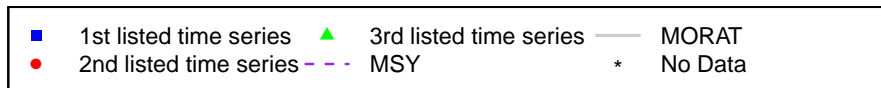
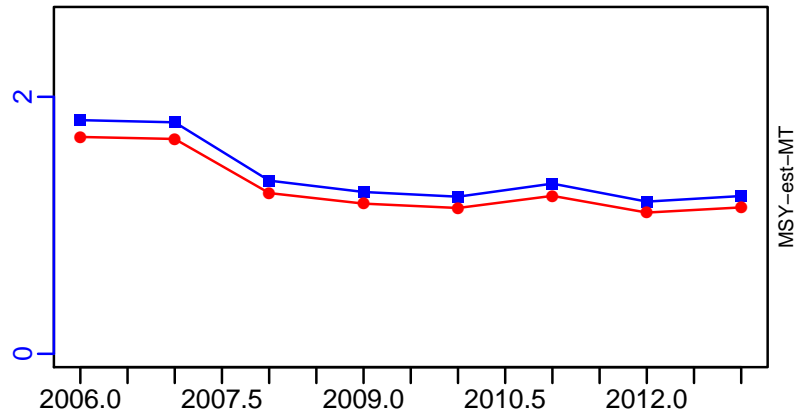
Red mullet Ligurian and North Tyrrhenian Sea [RMULLMEDGSA9]

TC-MT, TL*, RecC* (2006–2013–OSIO)

TAC*, Cpair*, Cadv*



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



Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

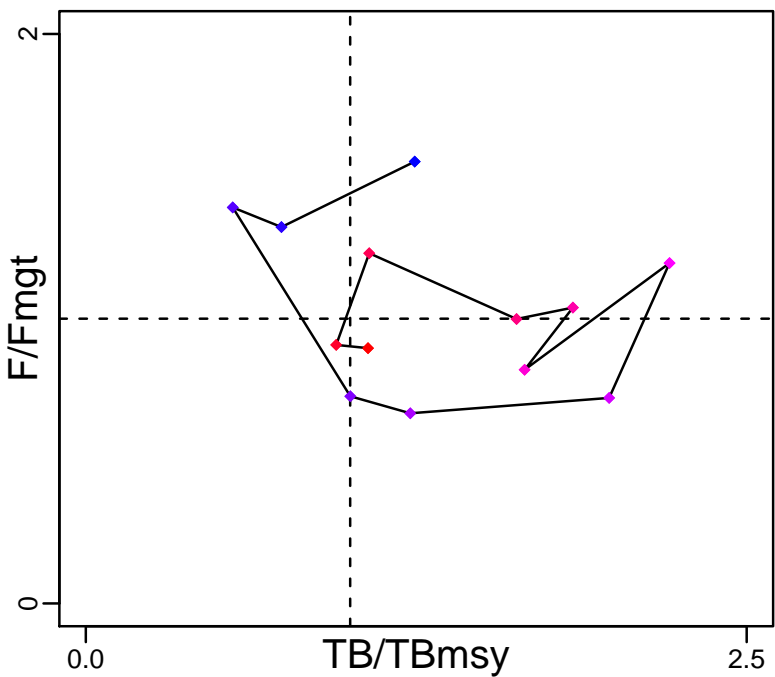
| Metadata | |
|-----------------------------|---|
| Scientific Name | Parapenaeus longirostris |
| Current Assess ID | STECF-RSHRMPMEDGSA1-2003-2015-OSIO |
| Area | Northern Alboran Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

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

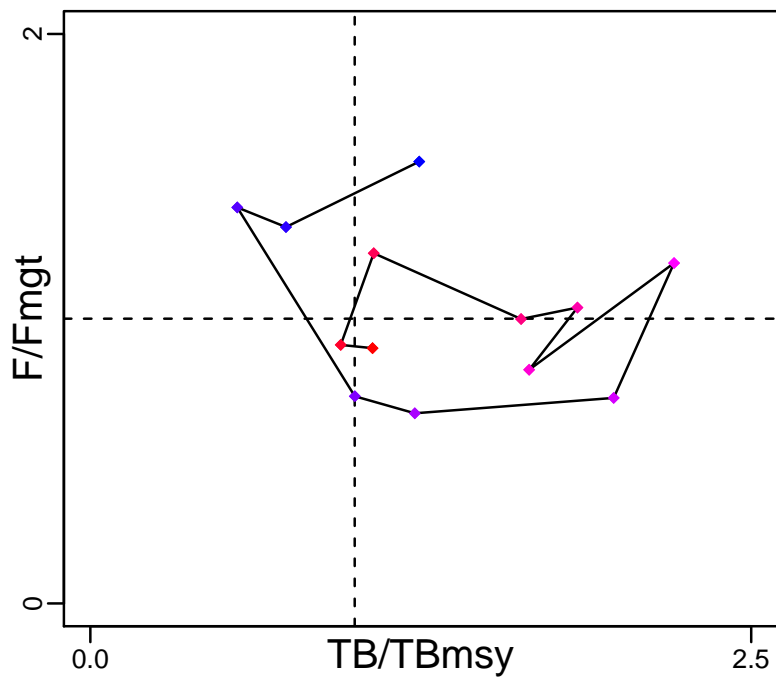
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 701 | - | - |
| SSB | SSB-MT | 2015 | 127 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 2.9×10^8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

Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

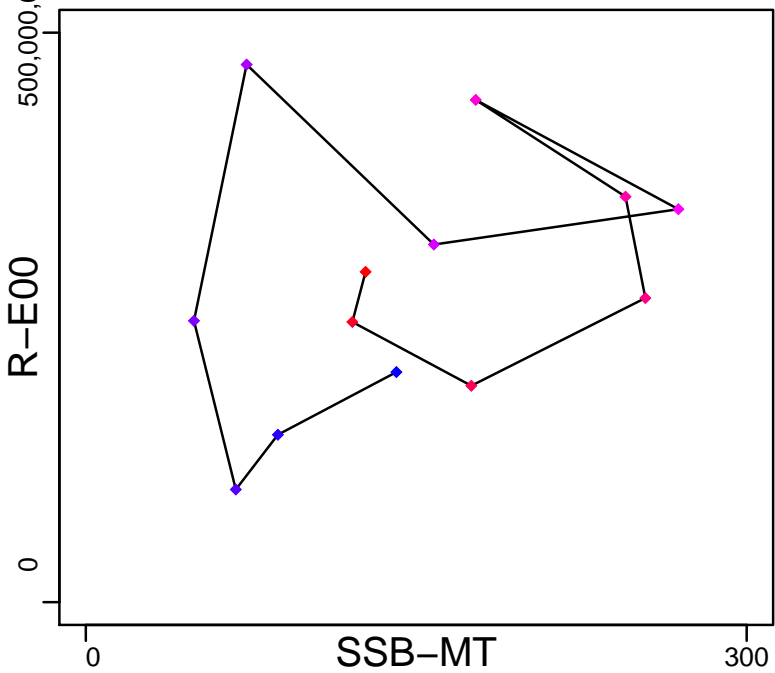
Kobe MSYpref (2003–2015–OSIO)



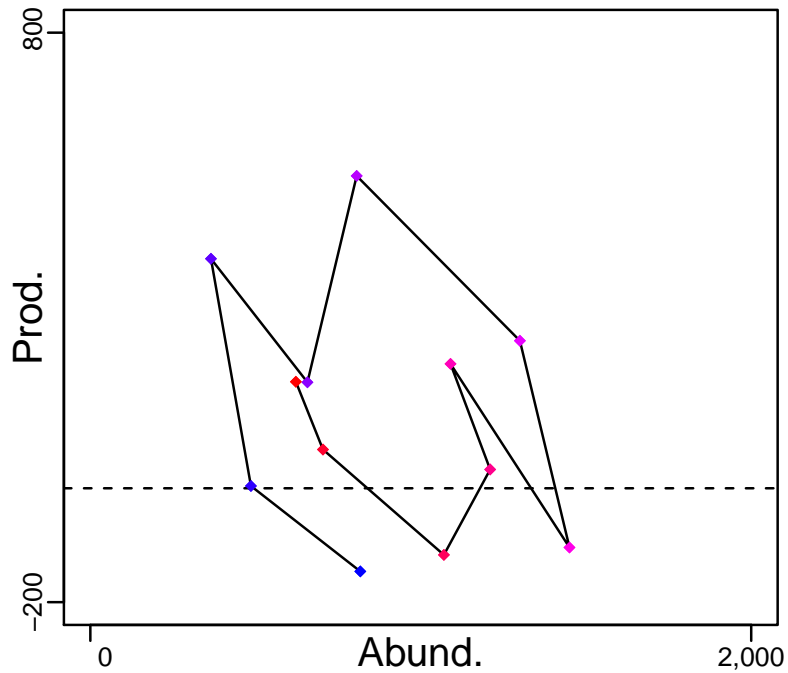
Kobe MGTpref (2003–2015–OSIO)



Spawner Recruit (2003–2015–OSIO)



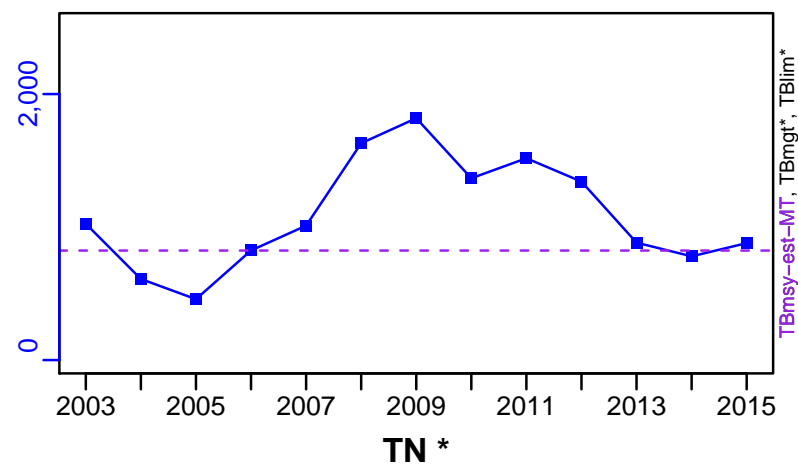
Production (2003–2015–OSIO)



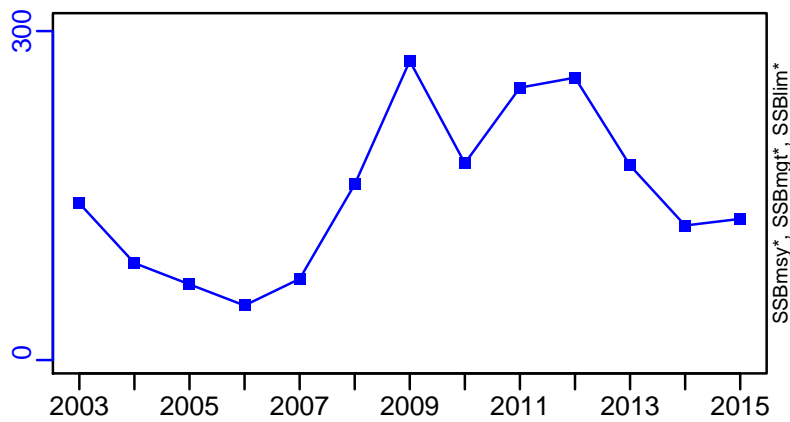
◆ Start Year ◆ End Year * No Data

Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TB-MT (2003–2015–OSIO)



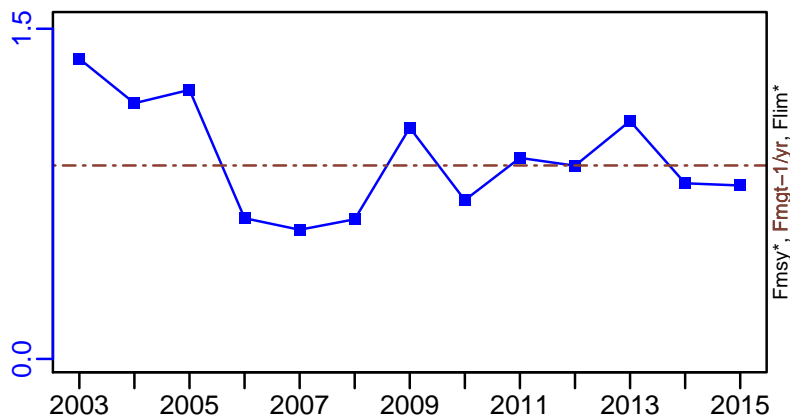
SSB-MT (2003–2015–OSIO)



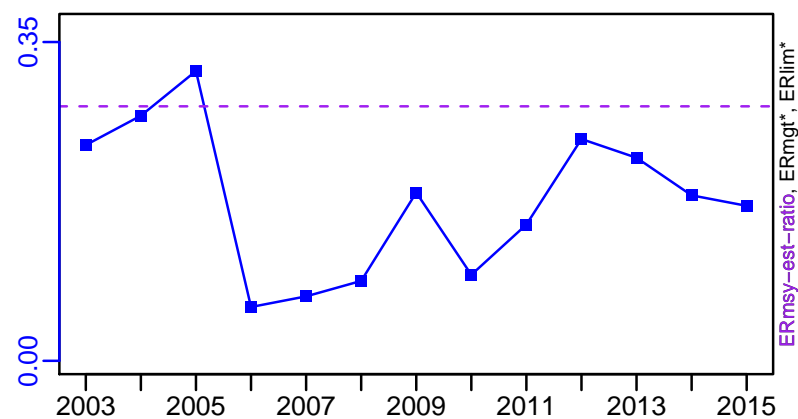
TN *



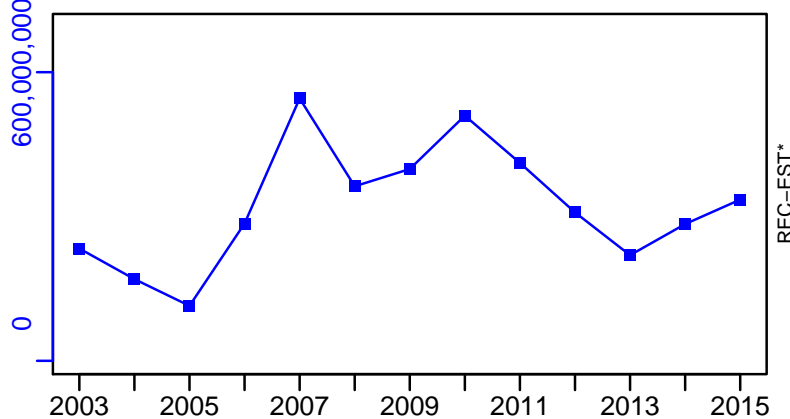
F-1/yr (2003–2015–OSIO)



ER-calc-ratio (2003–2015–OSIO)

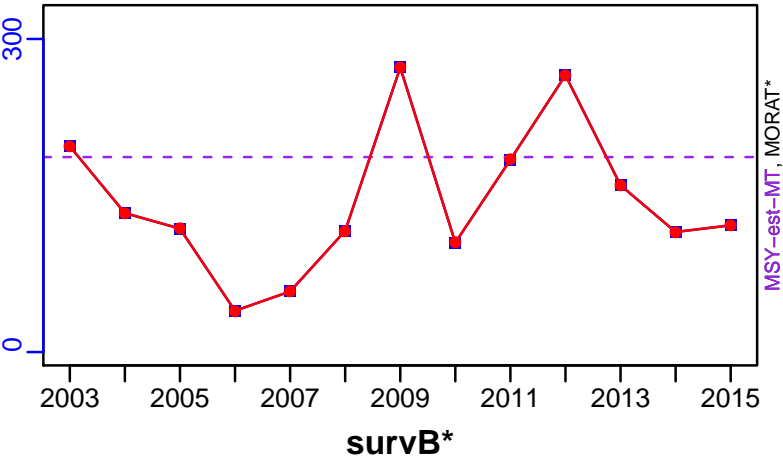


R-E00 (2003–2015–OSIO)



Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TC-MT, TL-MT, RecC* (2003–2015–OSIO)



TAC*, Cpair*, Cadv*



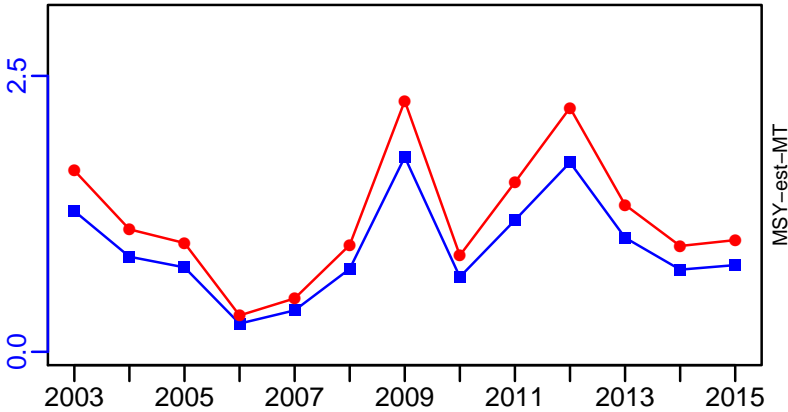
CPUE*



EFFORT*



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



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

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

| Reference Points | | | |
|------------------|----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-extr-1/yr | 2011 | 1.21 |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2009 | 0.9 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2011 | 1.05 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------------|-----------|--------------------|------|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2009 | 4630 | Both | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2009 | 2.98×10^9 | - | - |
| F | F-1/yr | 2011 | 1.65 | - | - |
| ER | ER-calc-ratio | 2009 | 0.408 | - | - |
| TC | TC-MT | 2009 | 8810 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | FdivFmsy-dimensionless | 2011 | 1.4 | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2009 | 1.533 | | |
| ER/ERmgt | - | - | - | | |

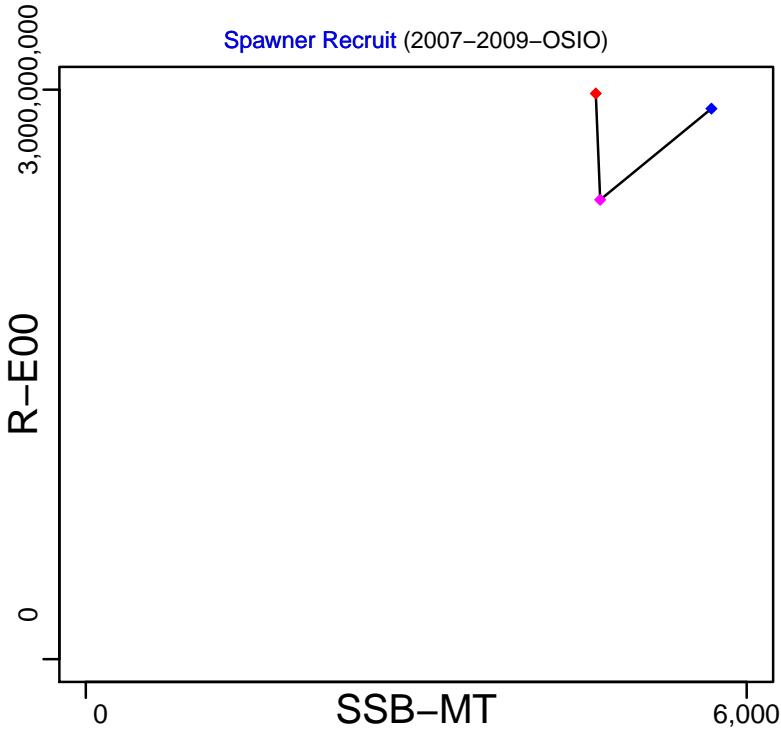
Kobe MSY*



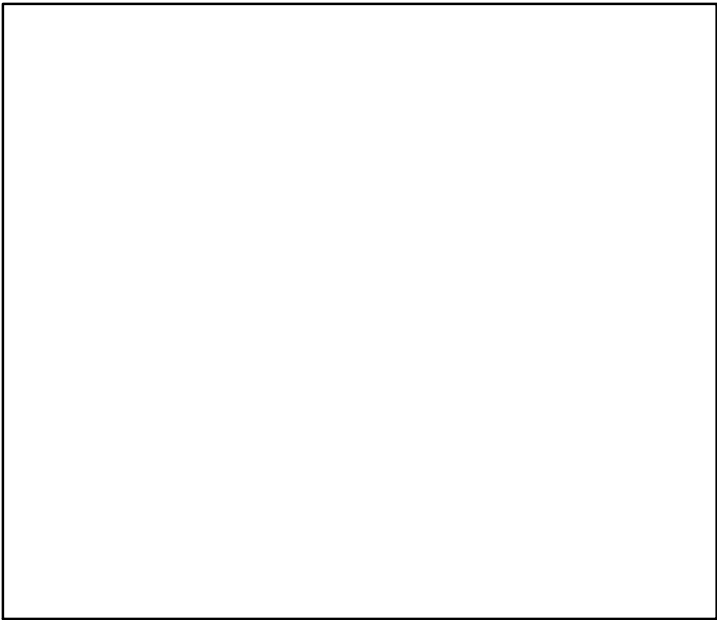
Kobe MGT*



Spawner Recruit (2007–2009–OSIO)



Production*



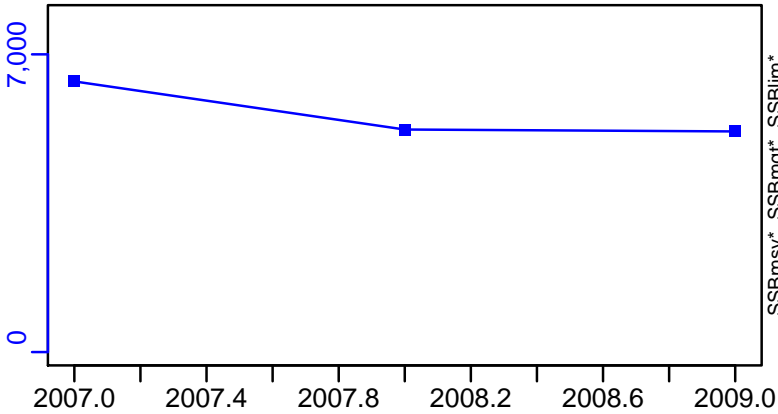
◆ Start Year ◆ End Year * No Data

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

TB*



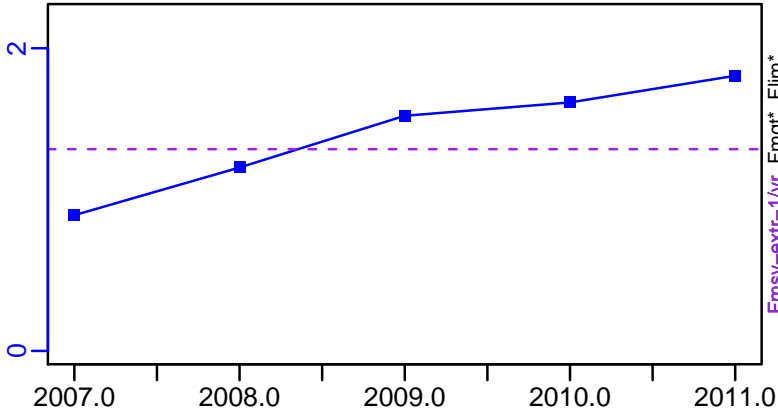
SSB-MT (2007–2009–OSIO)



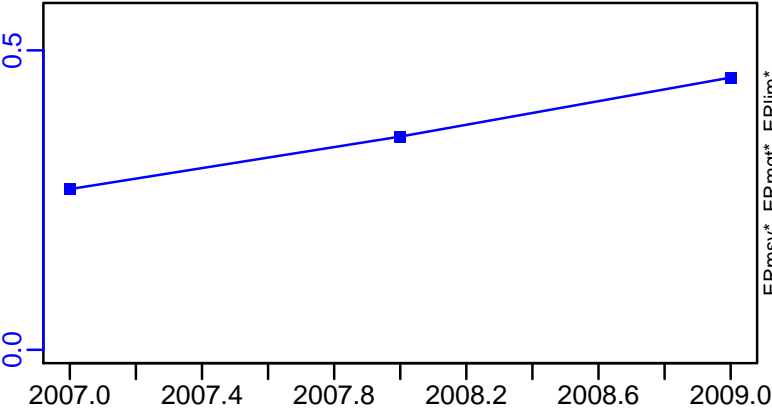
TN *



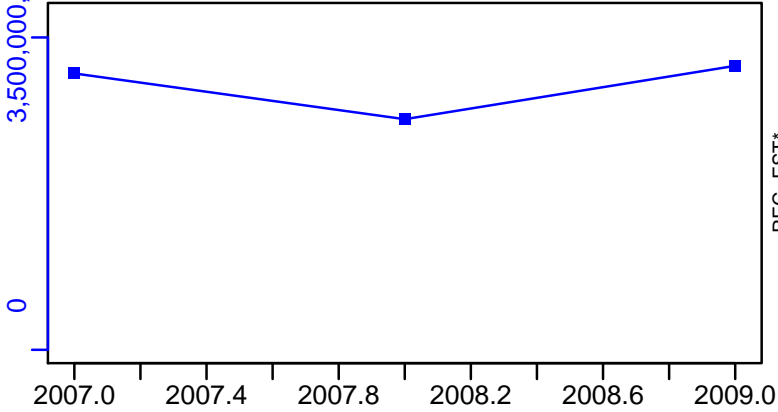
F-1/yr (2007–2011–BANOB)



ER-calc-ratio (2007–2009–OSIO)

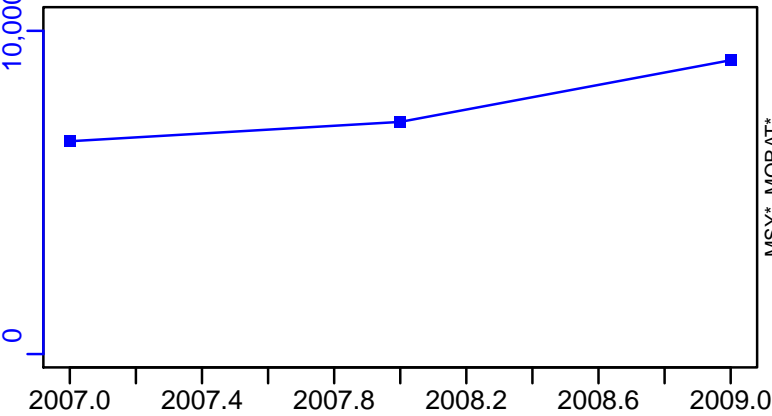


R-E00 (2007–2009–OSIO)

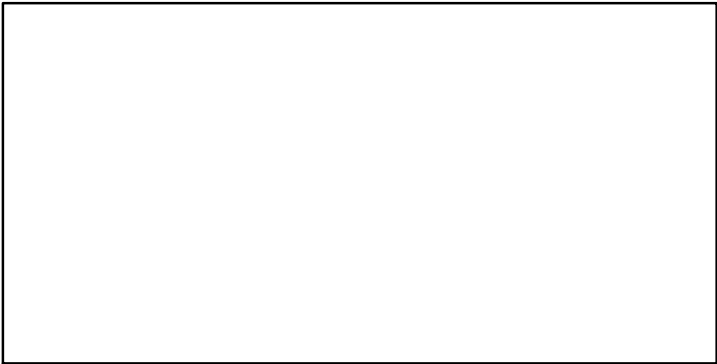


Deep water rose shrimp Geographical Sub-Areas 12–16 [RSHRMPMEDGSA12–16]

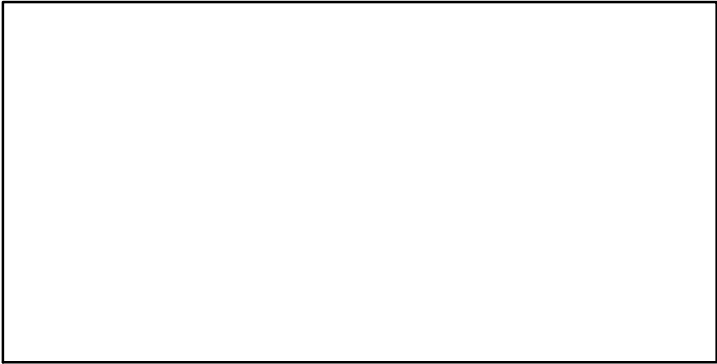
TC–MT, TL*, RecC* (2007–2009–OSIO)



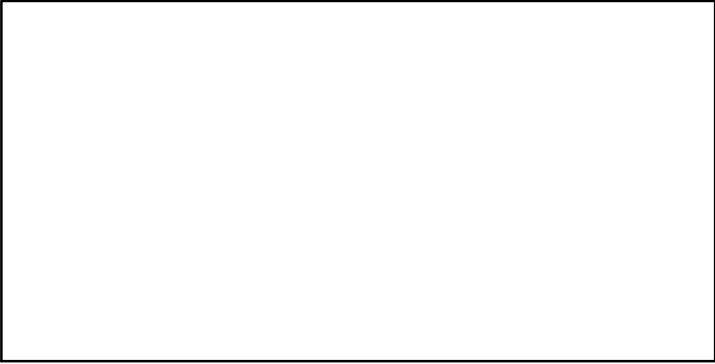
TAC*, Cpair*, Cadv*



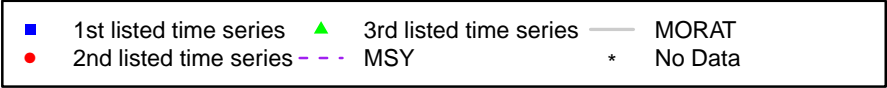
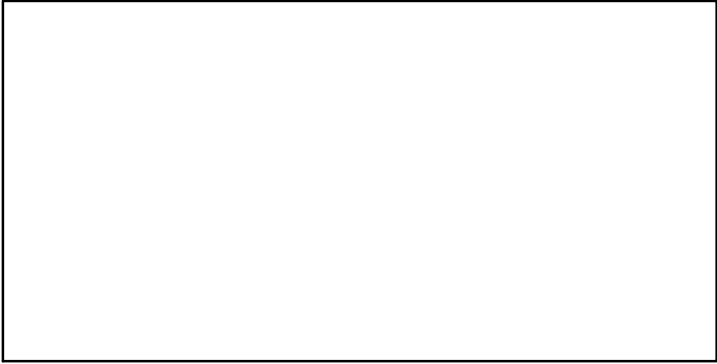
CPUE*



EFFORT*



CdivMSY*



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

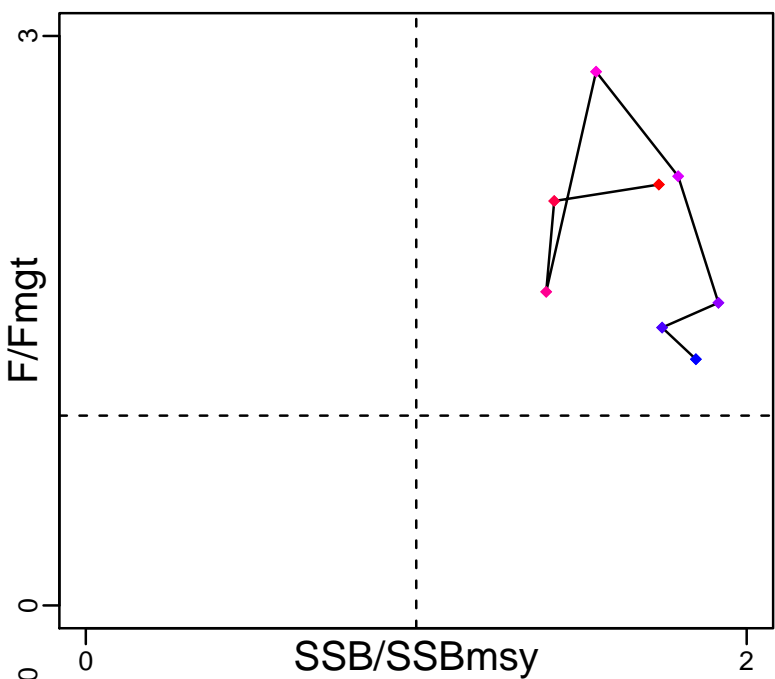
| Metadata | |
|-----------------------------|---|
| Scientific Name | Parapenaeus longirostris |
| Current Assess ID | STECF-RSHRMPMEDGSA17-19-2007-2014-OSIO |
| Area | Geographical Sub-Areas 17-19 |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 2053 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.365 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.69 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 3165 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

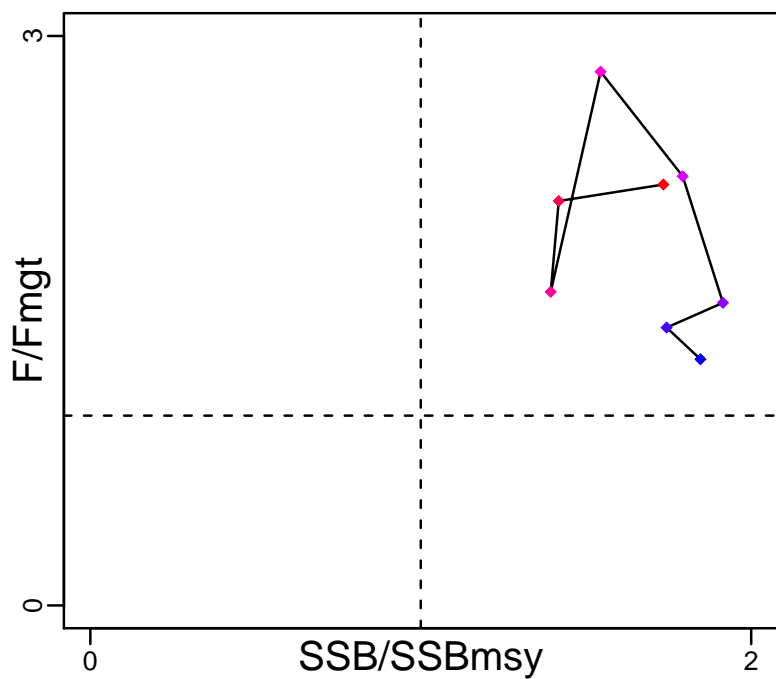
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 3560 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.32×10^9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

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

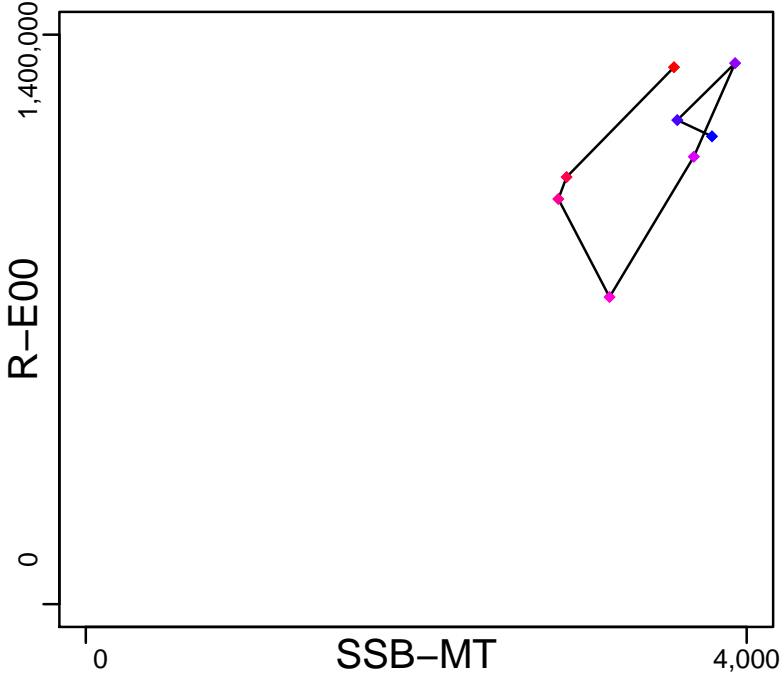
Kobe MSYpref (2007–2014–OSIO)



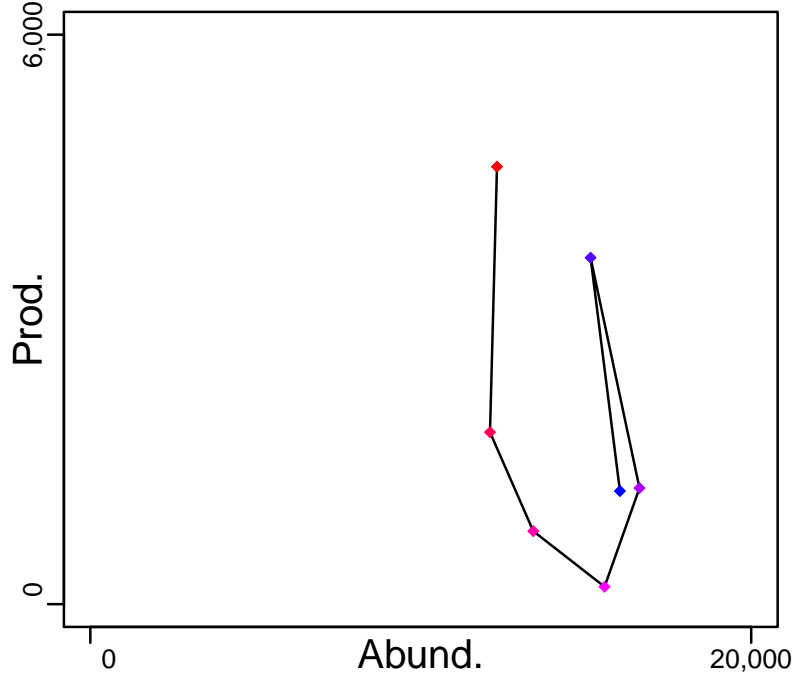
Kobe MGTpref (2007–2014–OSIO)



Spawner Recruit (2007–2014–OSIO)



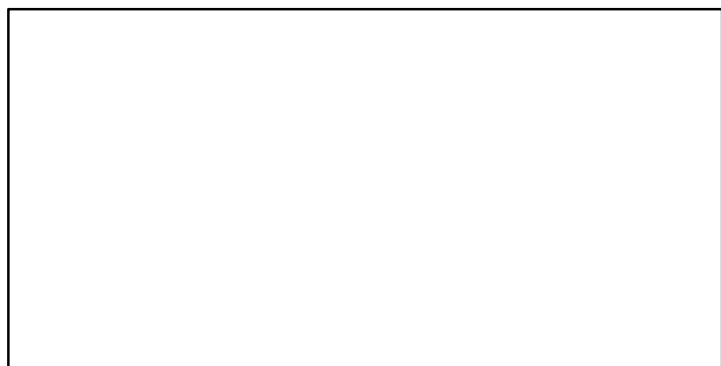
Production (2007–2014–OSIO)



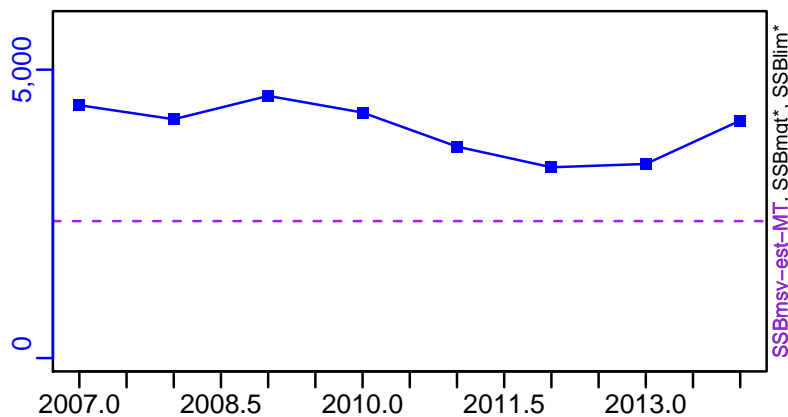
◆ Start Year ◆ End Year * No Data

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

TB*



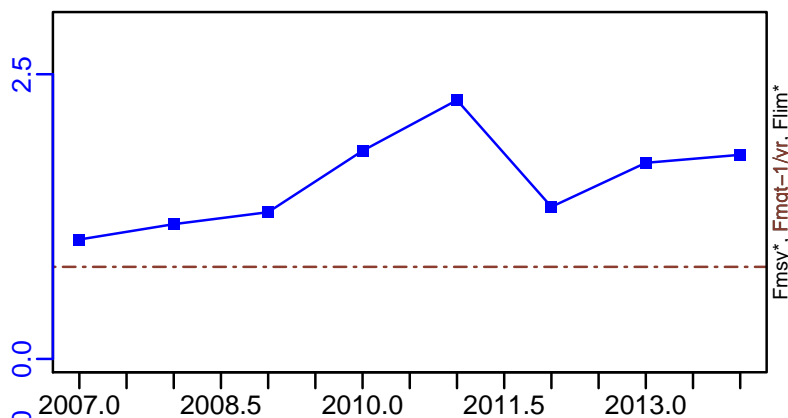
SSB-MT (2007–2014–OSIO)



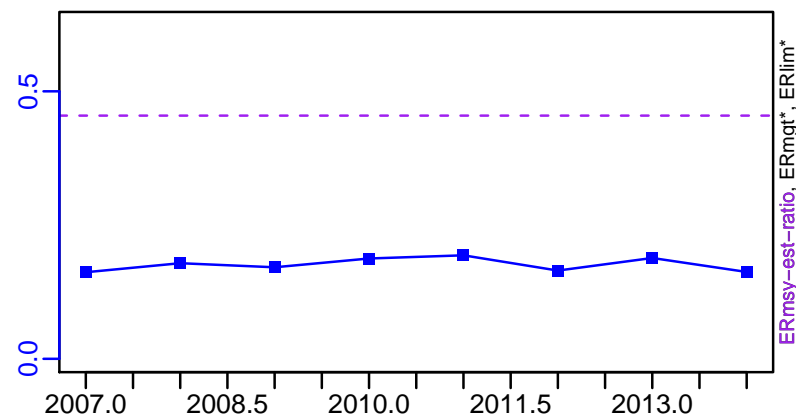
TN *



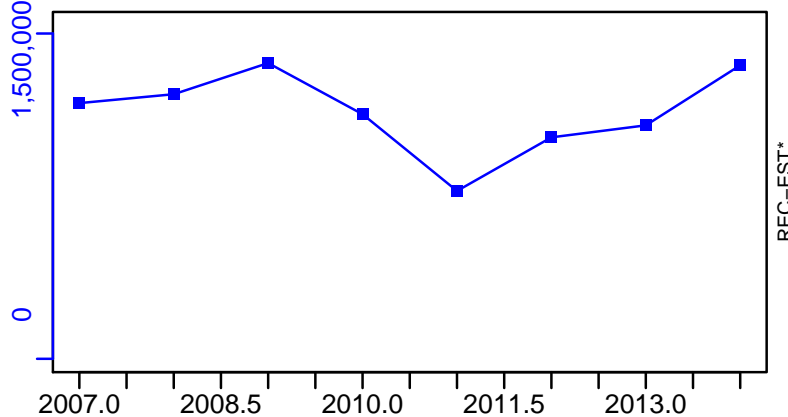
F-1/yr (2007–2014–OSIO)



ER-calc-ratio (2007–2014–OSIO)

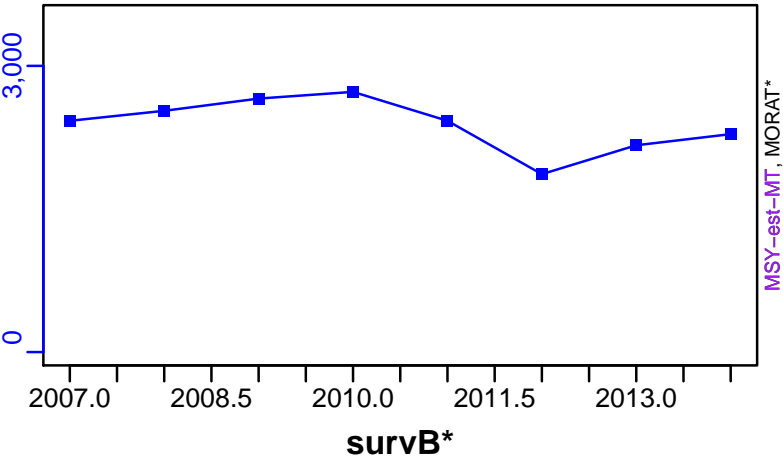


R-E00 (2007–2014–OSIO)



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

TC–MT, TL*, RecC* (2007–2014–OSIO)



TAC*, Cpair*, Cadv*



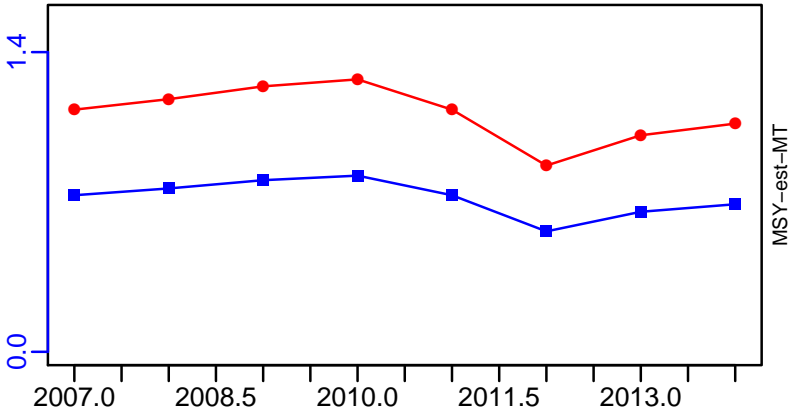
CPUE*



EFFORT*



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



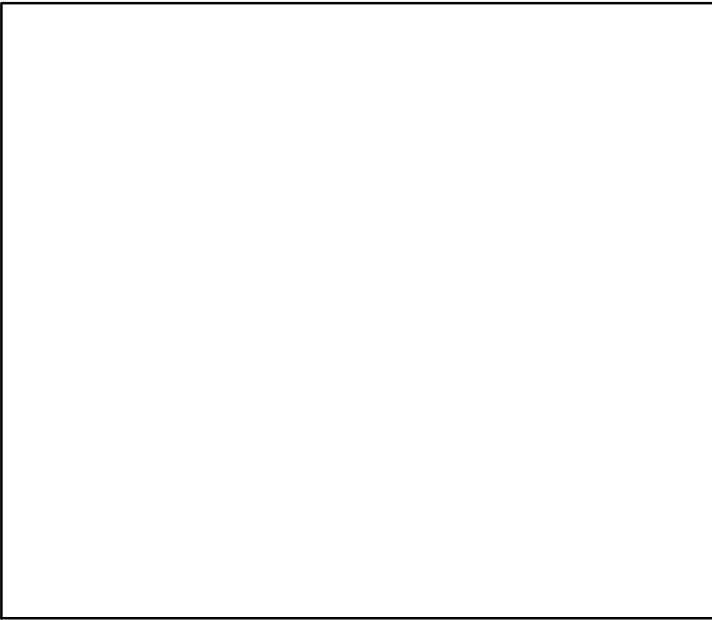
Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.62 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 7 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 3,490,000 | - | - |
| F | F-1/yr | 2012 | 0.68 | - | - |
| ER | ER-calc-ratio | 2012 | 0.14 | - | - |
| TC | TC-MT | 2012 | 4.17 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 1.097 | | |
| ER/ERmgt | - | - | - | | |

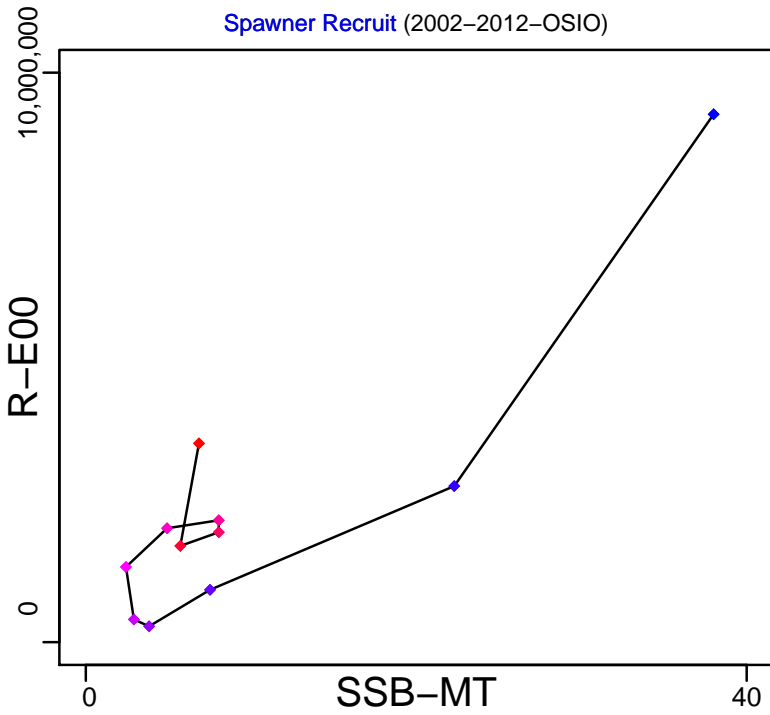
Kobe MSY*



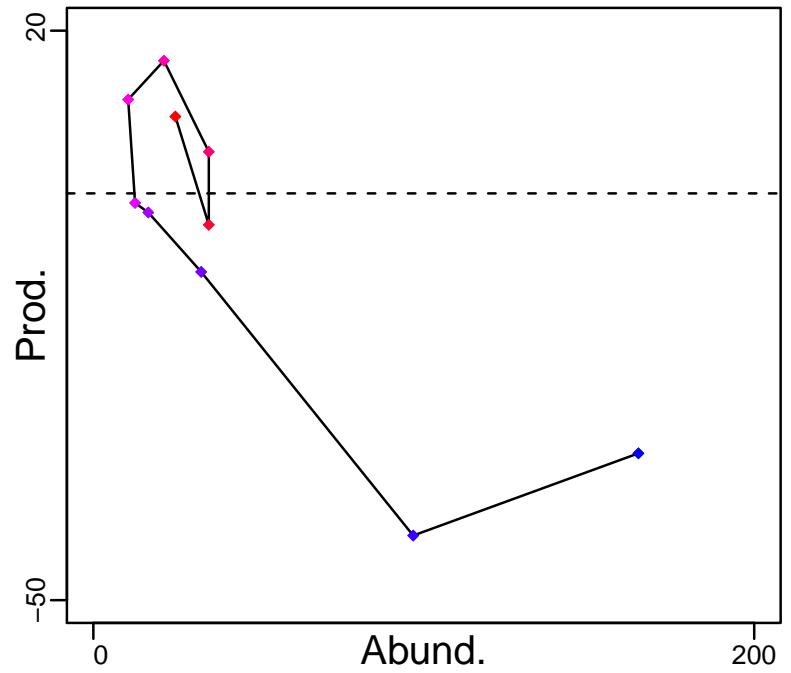
Kobe MGT*



Spawner Recruit (2002–2012–OSIO)



Production (2002–2012–OSIO)



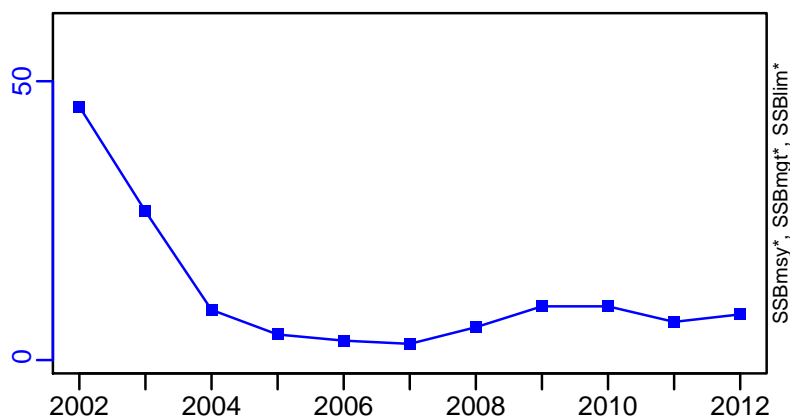
◆ Start Year ◆ End Year * No Data

Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

TB*



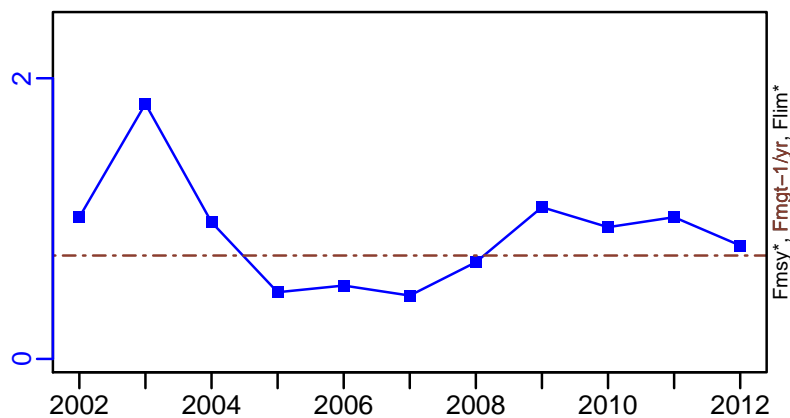
SSB-MT (2002-2012-OSIO)



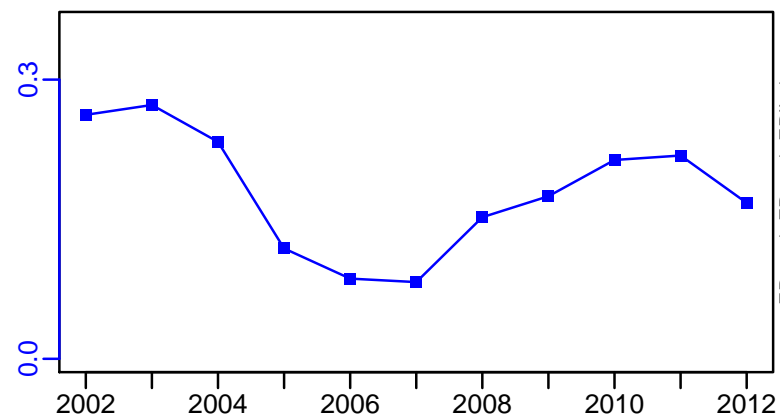
TN *



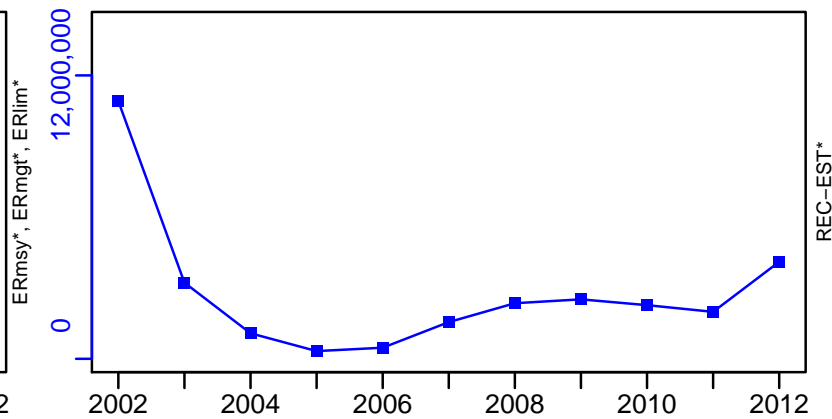
F-1/yr (2002-2012-OSIO)



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

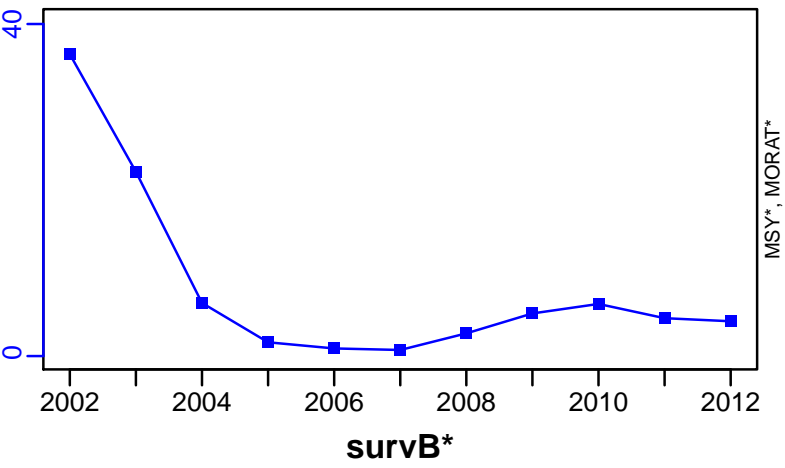


R-E00 (2002-2012-OSIO)

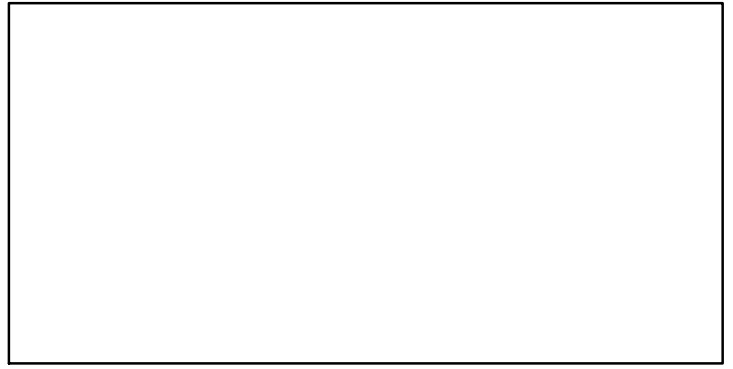


Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

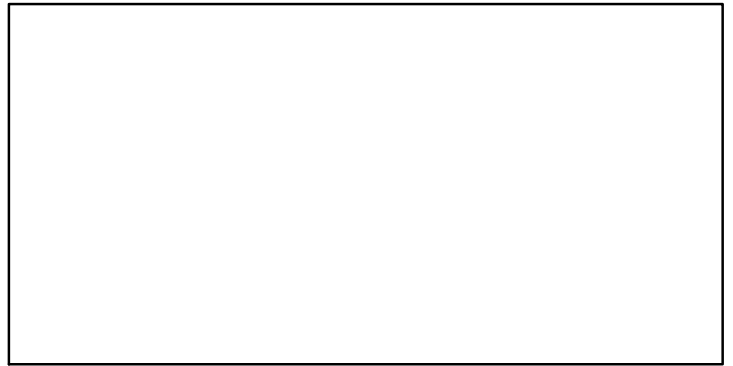
TC-MT, TL*, RecC* (2002-2012-OSIO)



TAC*, Cpair*, Cadv*



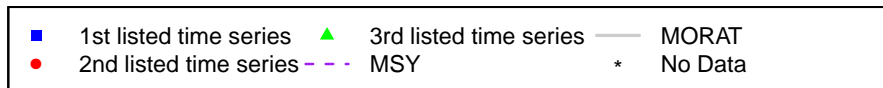
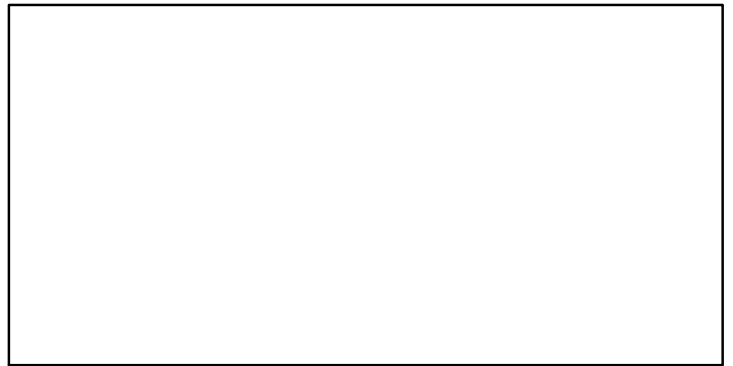
CPUE*



EFFORT*



CdivMSY*



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

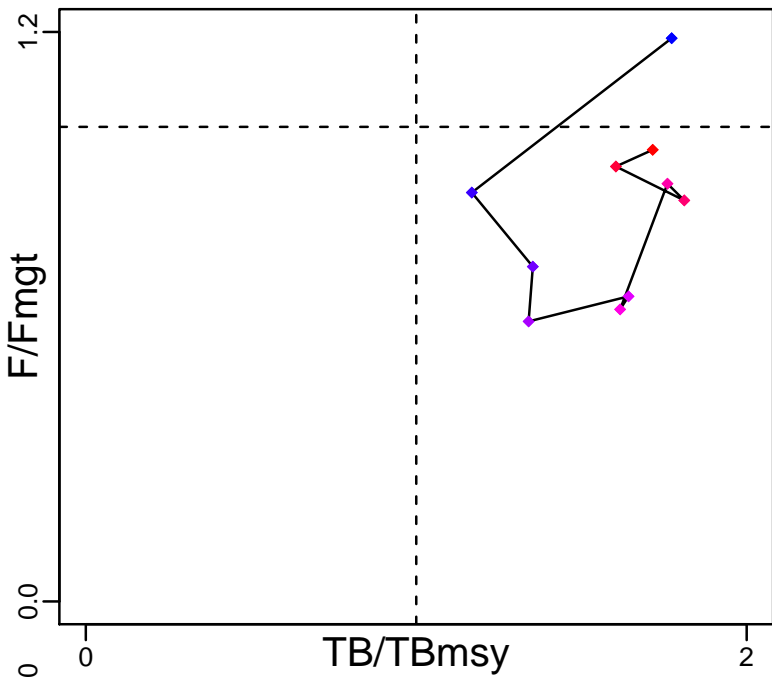
| Metadata | |
|-----------------------------|---|
| Scientific Name | Parapenaeus longirostris |
| Current Assess ID | STECF-RSHRMPMEDGSA9-11-2006-2015-OSIO |
| Area | Geographical Sub-Areas 9-11 |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states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

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

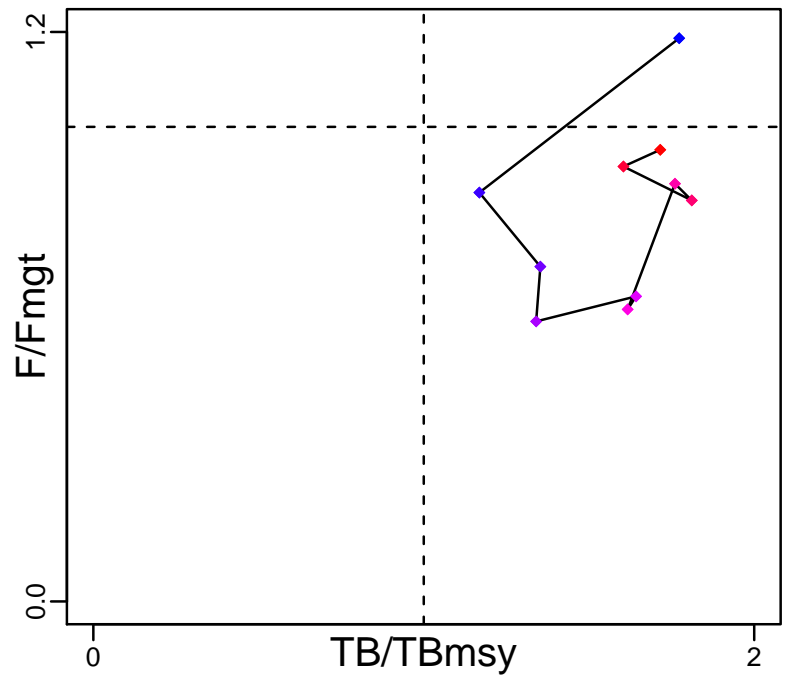
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 5390 | - | - |
| SSB | SSB-MT | 2015 | 1750 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 8.58×10^8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

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

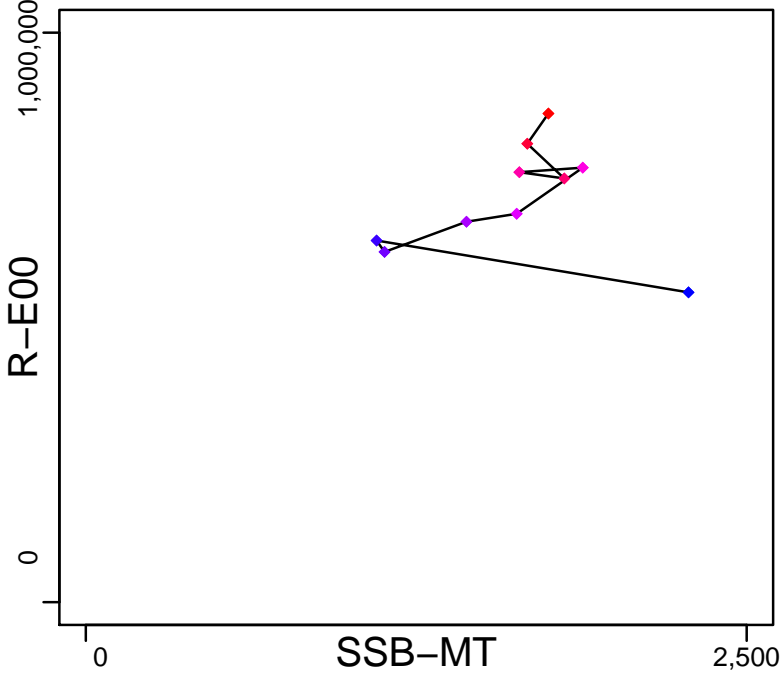
Kobe MSYpref (2006–2015–OSIO)



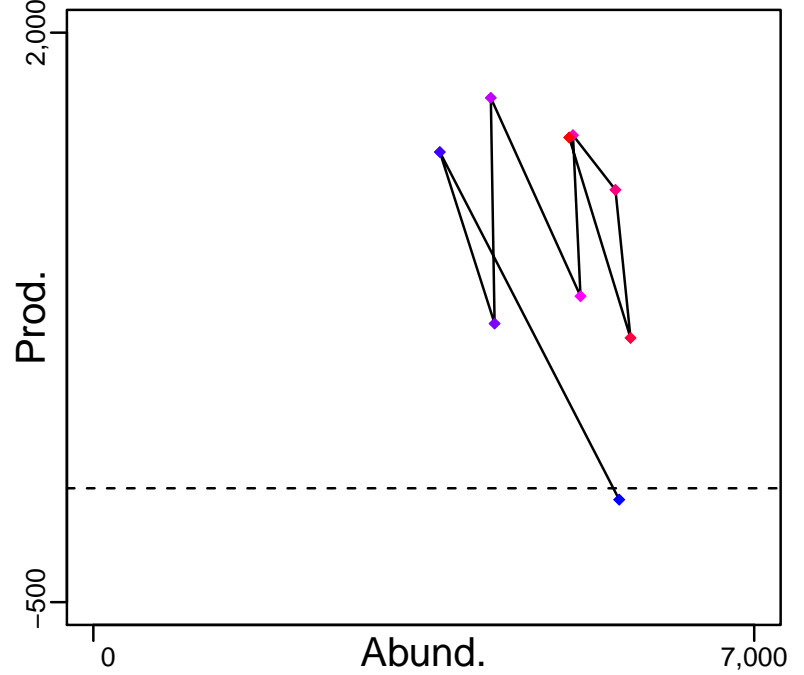
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)



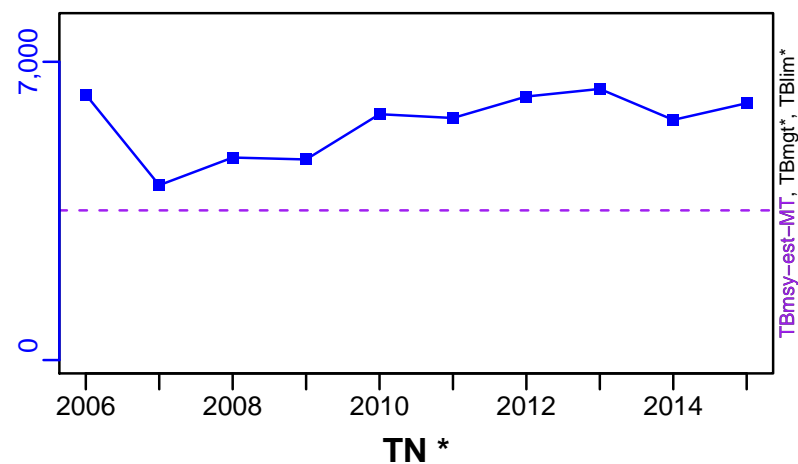
Production (2006–2015–OSIO)



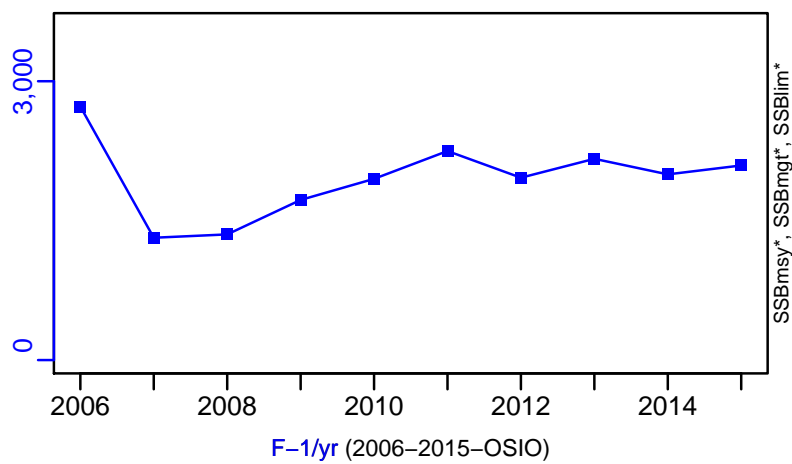
◆ Start Year ◆ End Year * No Data

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

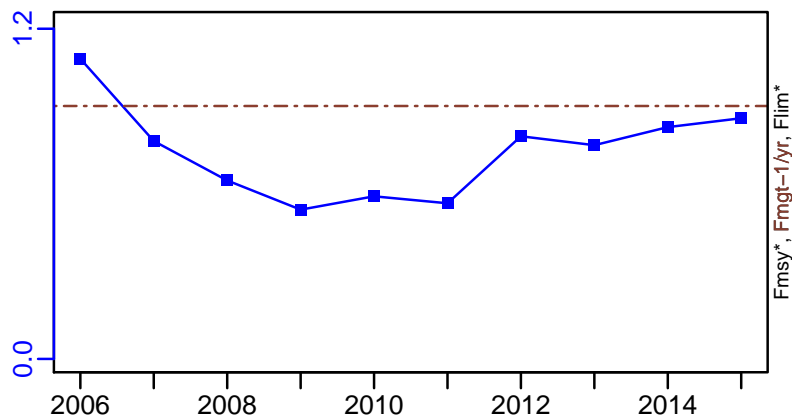
TB-MT (2006-2015-OSIO)



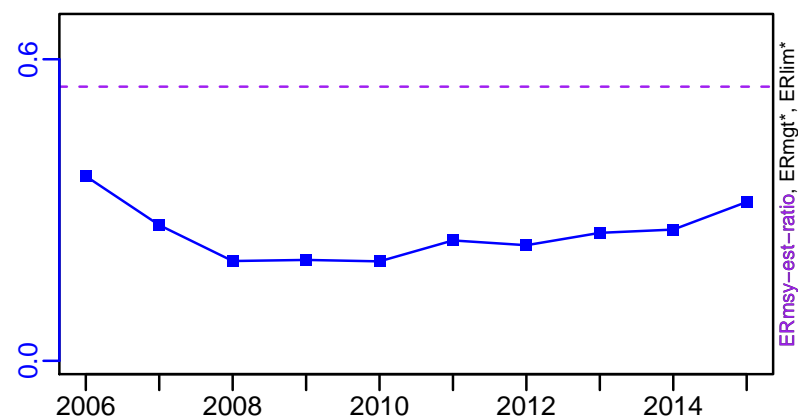
SSB-MT (2006-2015-OSIO)



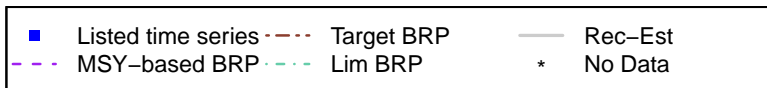
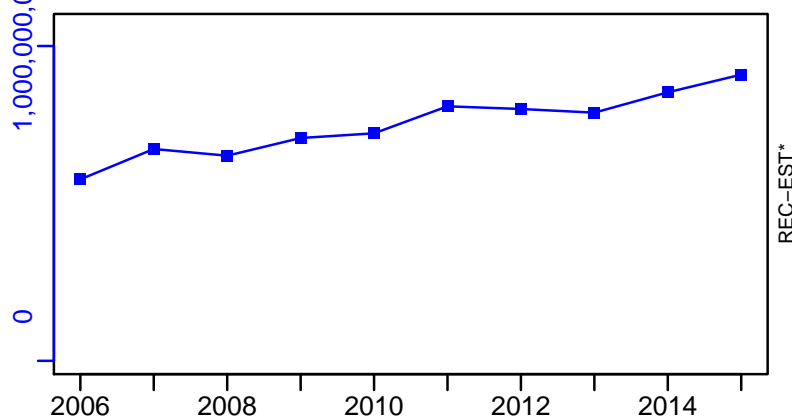
F-1/yr (2006-2015-OSIO)



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



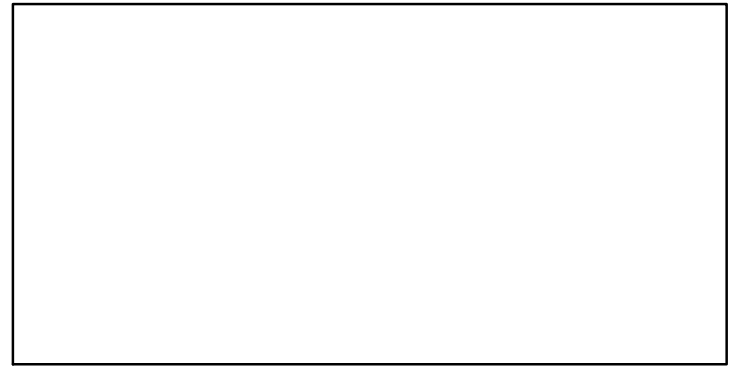
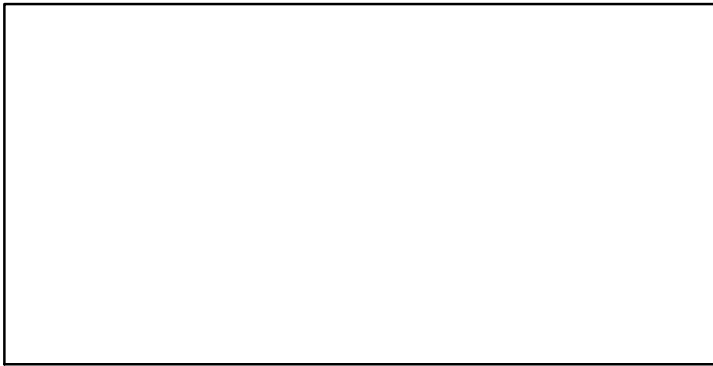
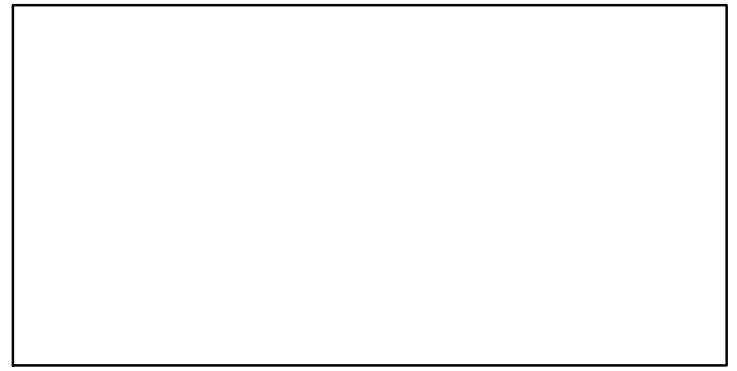
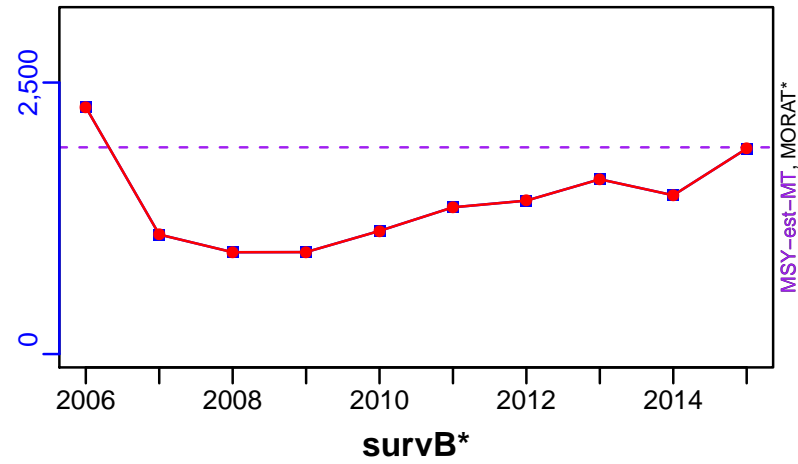
R-E00 (2006-2015-OSIO)



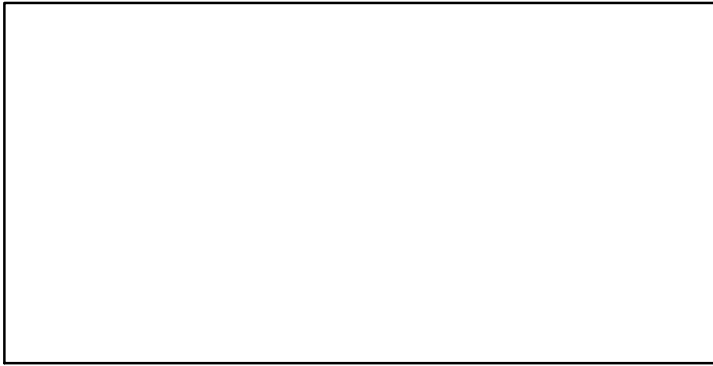
Deep water rose shrimp Geographical Sub-Areas 9–11 [RSHRMPMEDGSA9–11]

TC–MT, TL–MT, RecC* (2006–2015–OSIO)

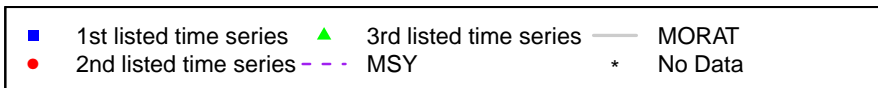
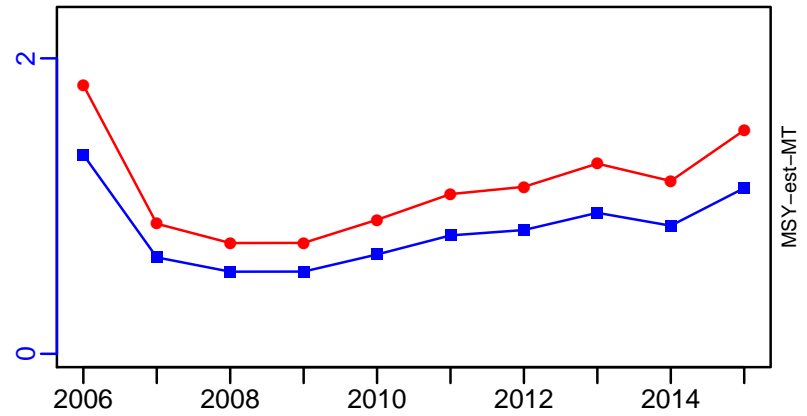
TAC*, Cpair*, Cadv*



EFFORT*



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

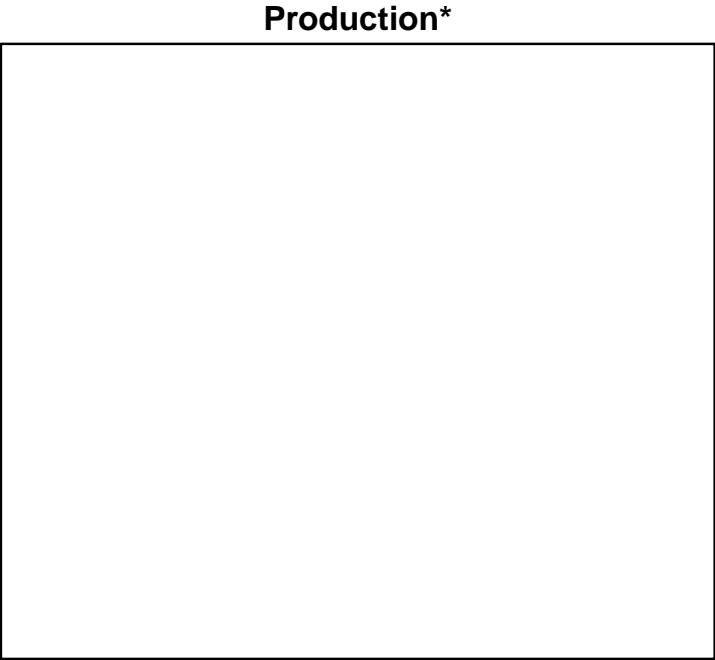
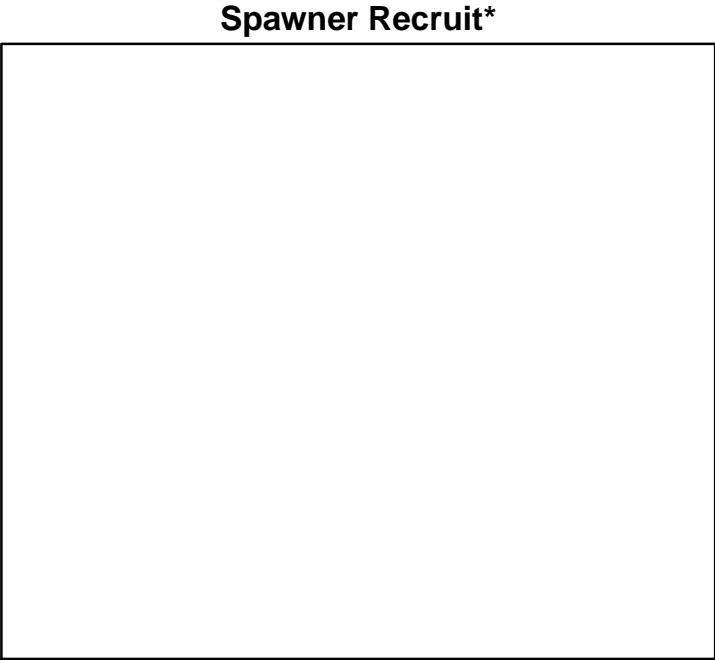
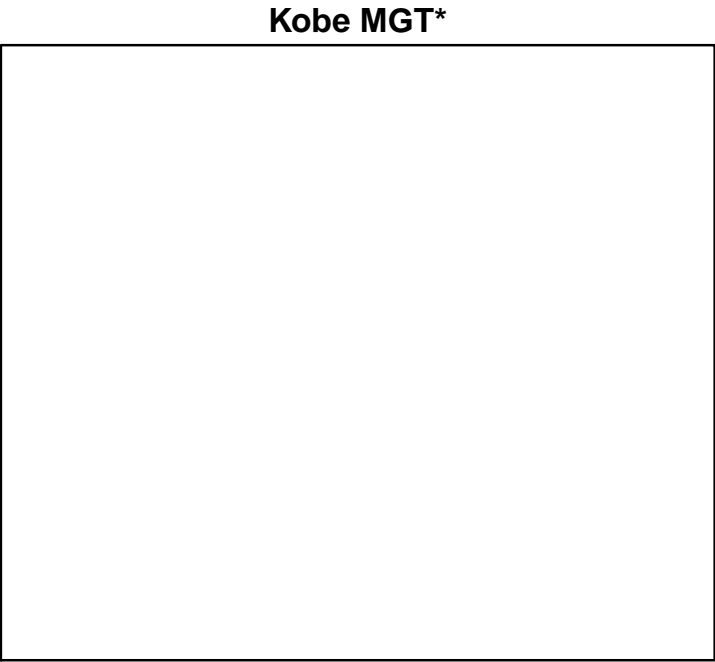


European pilchard Northern Alboran Sea [SARDMEDGSA1]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | STECF-SARDMEDGSA1-2002-2012-OSIO |
| Area | Northern Alboran Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 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 | - | - | - | | |



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*

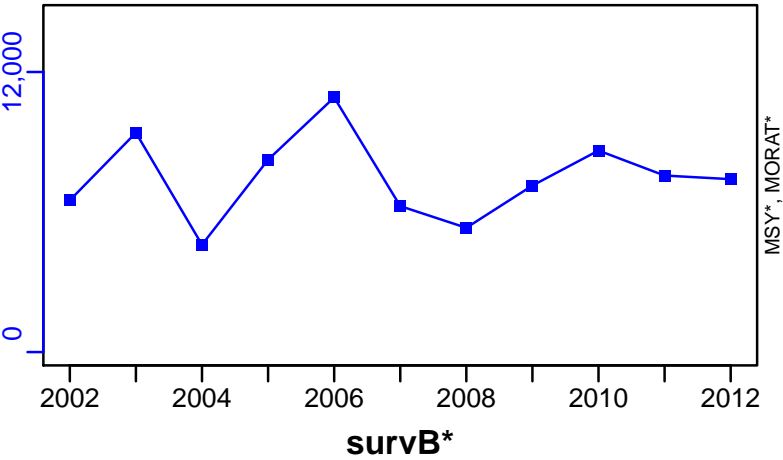


Recruits*



European pilchard Northern Alboran Sea [SARDMEDGSA1]

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



TAC*, Cpair*, Cadv*



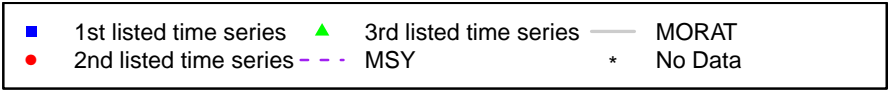
CPUE*



EFFORT*



CdivMSY*



Sardine South of Sicily [SARDMEDGSA16]

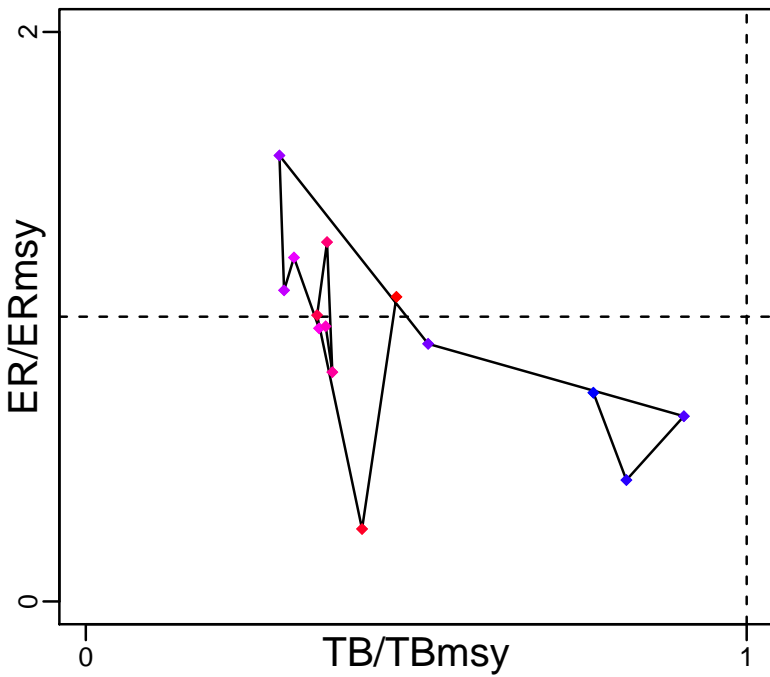
| Metadata | |
|-----------------------------|---|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | CNR-IAMC-SARDMEDGSA16-1998-2011-BANOBI |
| Area | South of Sicily |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Institute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

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

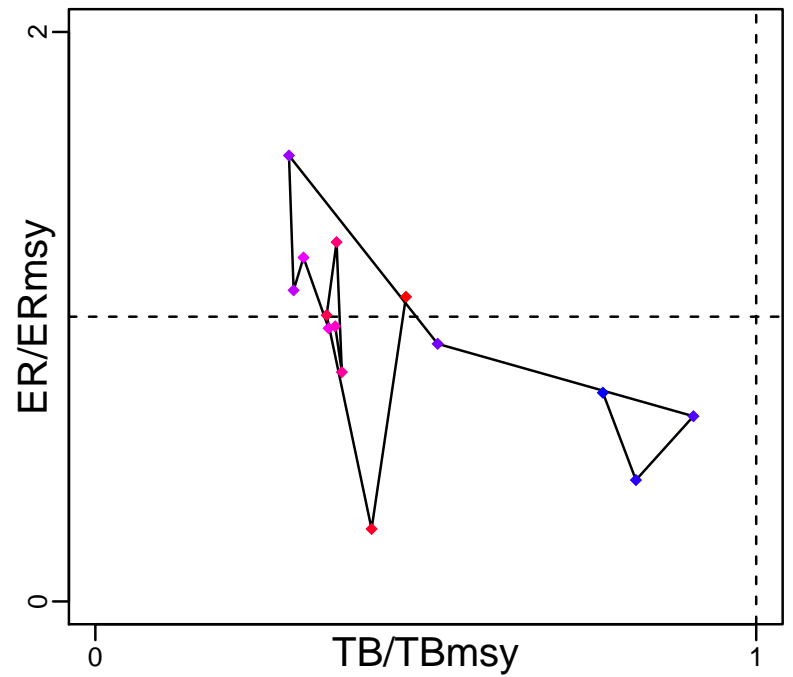
| Time Series | | | | | |
|-------------------|--------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2011 | 15,300 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | F-1/yr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

Sardine South of Sicily [SARDMEDGSA16]

Kobe MSYpref (1998–2011–BANOB1)



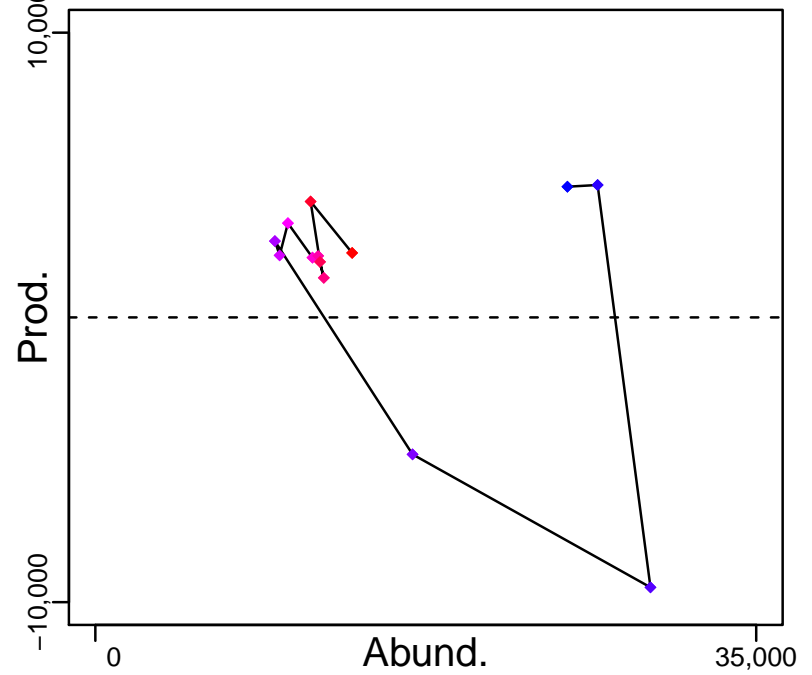
Kobe MGTpref (1998–2011–BANOB1)



Spawner Recruit*



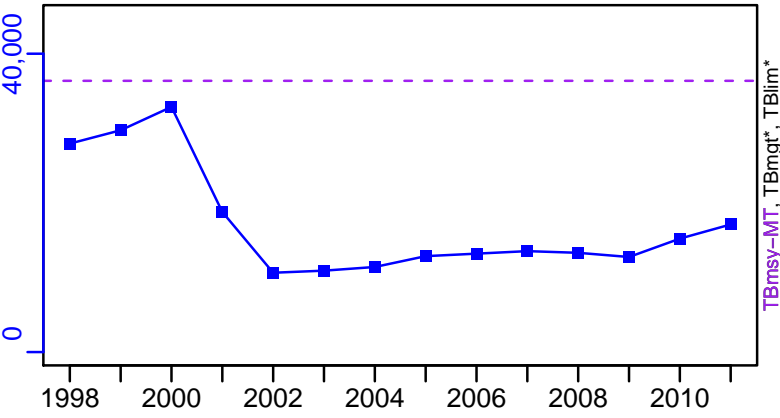
Production (1998–2011–BANOB1)



◆ Start Year ◆ End Year * No Data

Sardine South of Sicily [SARDMEDGSA16]

TB-MT (1998–2011–BANOB1)



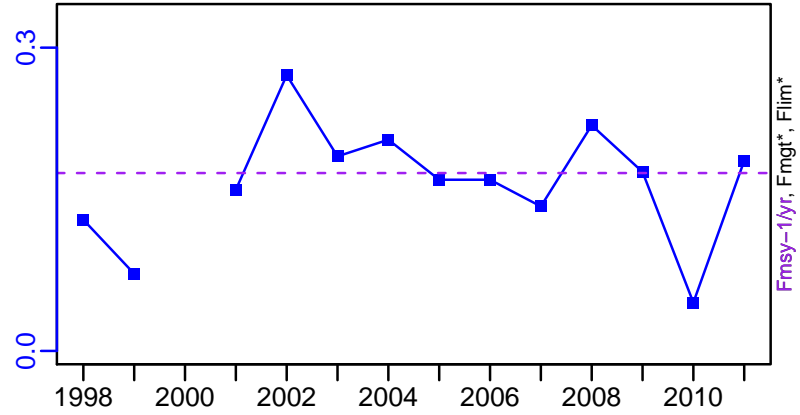
SSB*



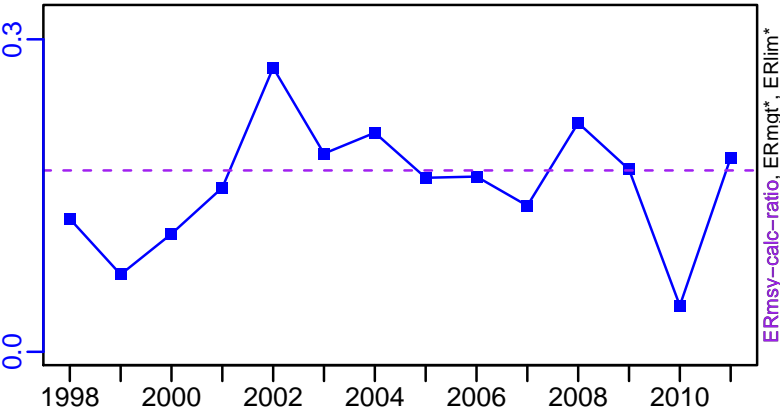
TN *



F-1/yr (1998–2011–BANOB1)



ER-calc-ratio (1998–2011–BANOB1)

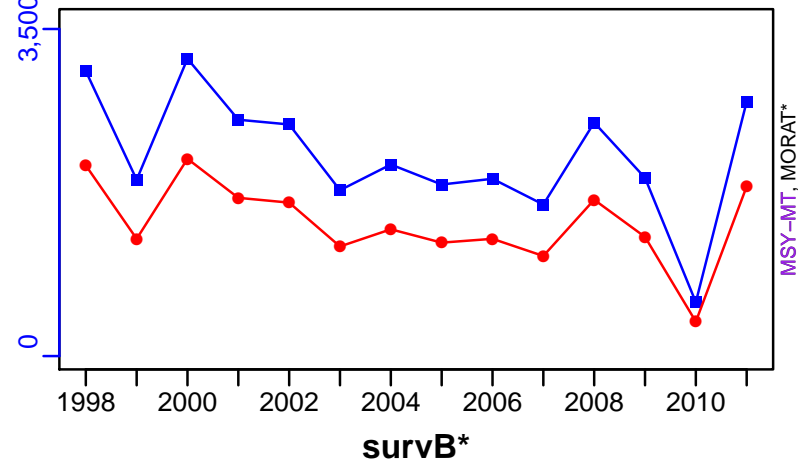


Recruits*



Sardine South of Sicily [SARDMEDGSA16]

TC-MT, TL-MT, RecC* (1998–2011–BANOB)



TAC*, Cpair*, Cadv*



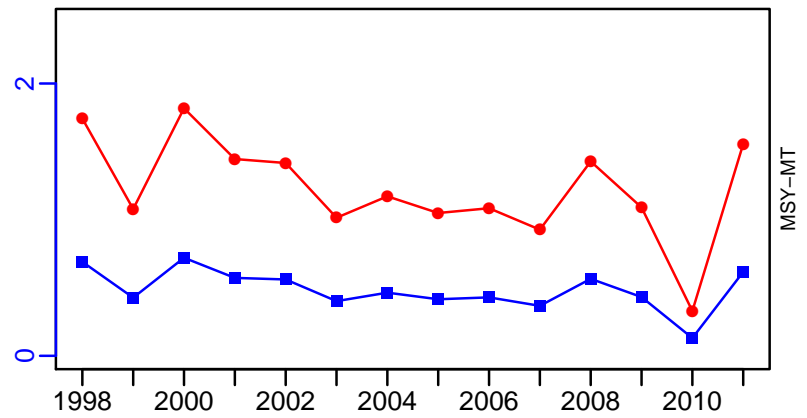
CPUE*



EFFORT*



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



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

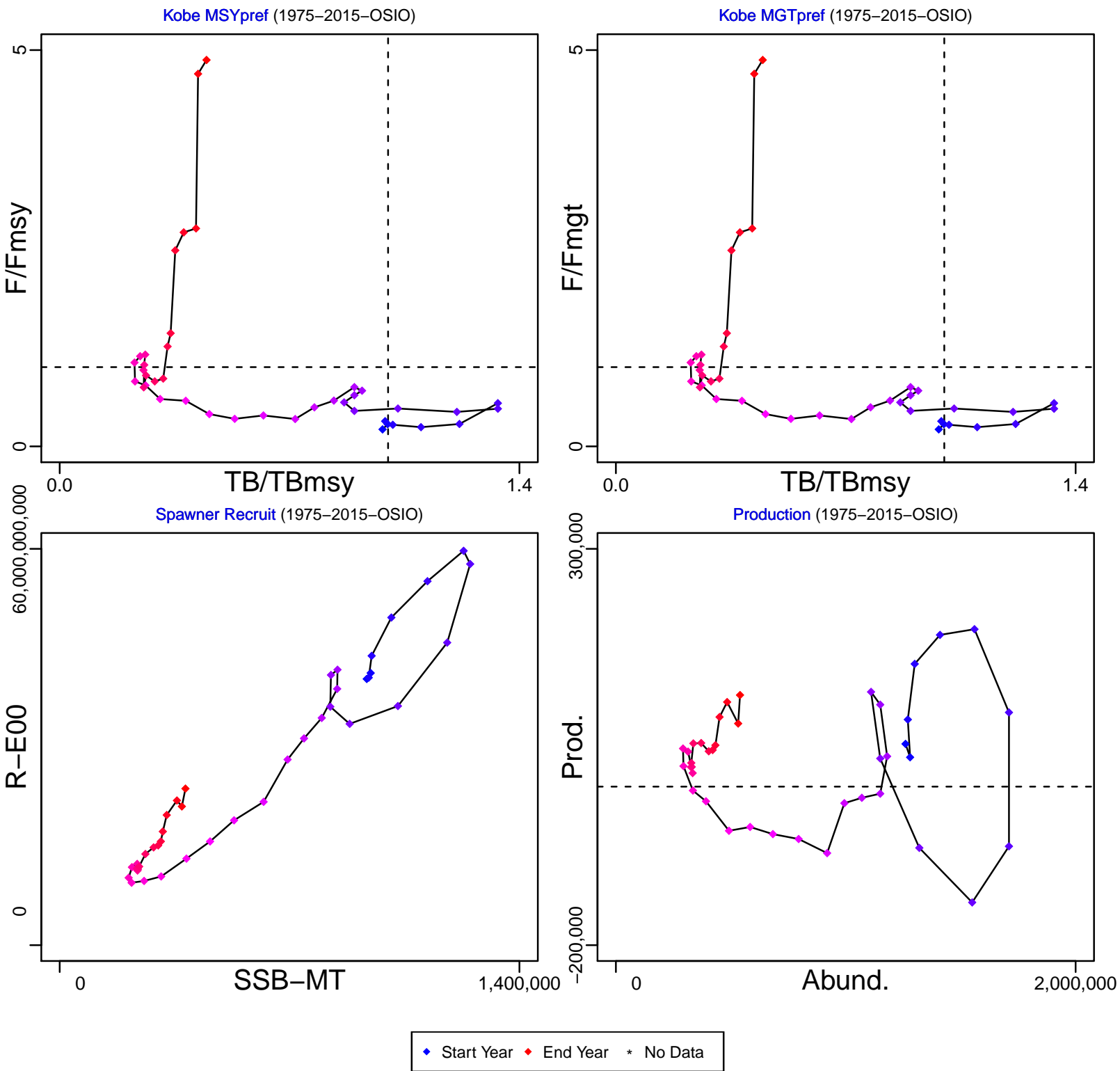
Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]

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

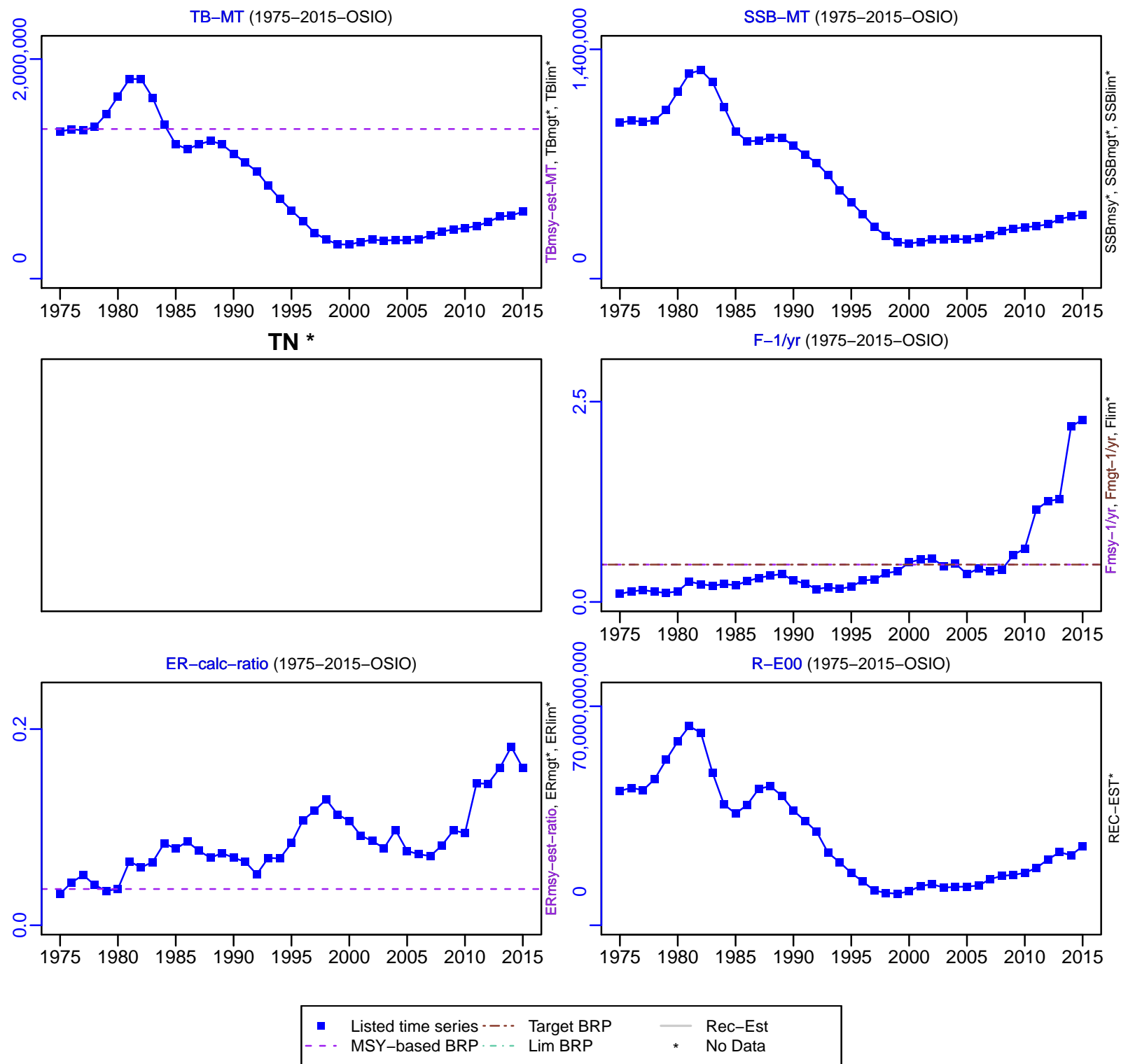
| Reference Points | | | |
|------------------|-----------------|-----------|-----------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2015 | 1,281,535 |
| SSBmsy | SSBmsy-est-MT | 2013 | 481,542 |
| Fmsy | Fmsy-1/yr | 2015 | 0.4 |
| ERmsy | ERmsy-est-ratio | 2015 | 0.031 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.4 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2015 | 39,779 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 573,000 | - | - |
| SSB | SSB-MT | 2015 | 383,000 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 2.37×10^{10} | - | - |
| F | F-1/yr | 2015 | 1.95 | - | - |
| ER | ER-calc-ratio | 2015 | 0.135 | - | - |
| TC | TC-MT | 2015 | 77,200 | | |
| TL | TL-MT | 2015 | 77,200 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2015 | 0.447 | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 0.363 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 4.875 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2015 | 4.34 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 4.875 | | |
| ER/ERmgt | - | - | - | | |

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

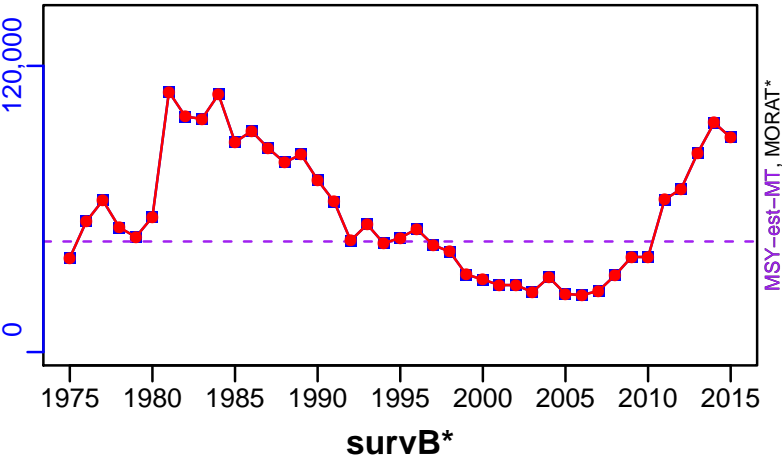


Sardine Adriatic Sea (GSA 17,18) [SARDMEDGSA17-18]



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

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



TAC*, Cpair*, Cadv*



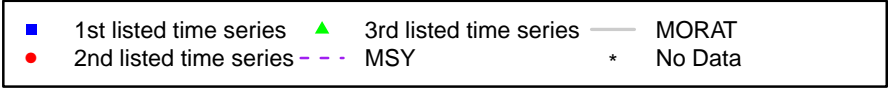
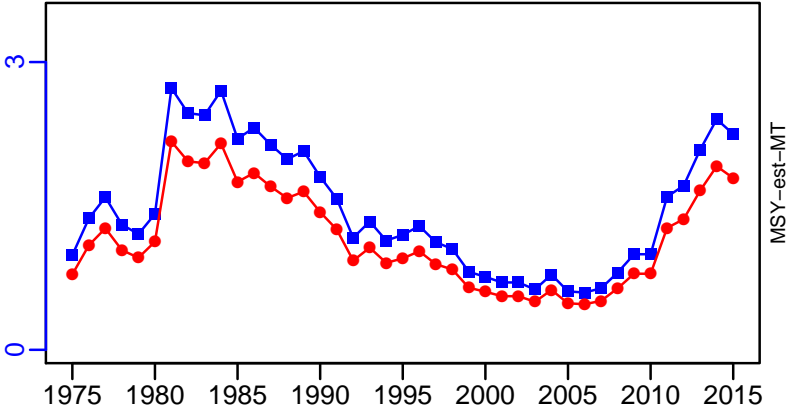
CPUE*



EFFORT*



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



European pilchard Eastern Ionian Sea [SARDMEDGSA20]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | STECF-SARDMEDGSA20-2000-2008-OSIO |
| Area | Eastern Ionian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 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 | 1.02×10^9 | - | - |
| F | F-1/yr | 2008 | 0.68 | - | - |
| ER | ER-calc-ratio | 2008 | 0.453 | - | - |
| 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]

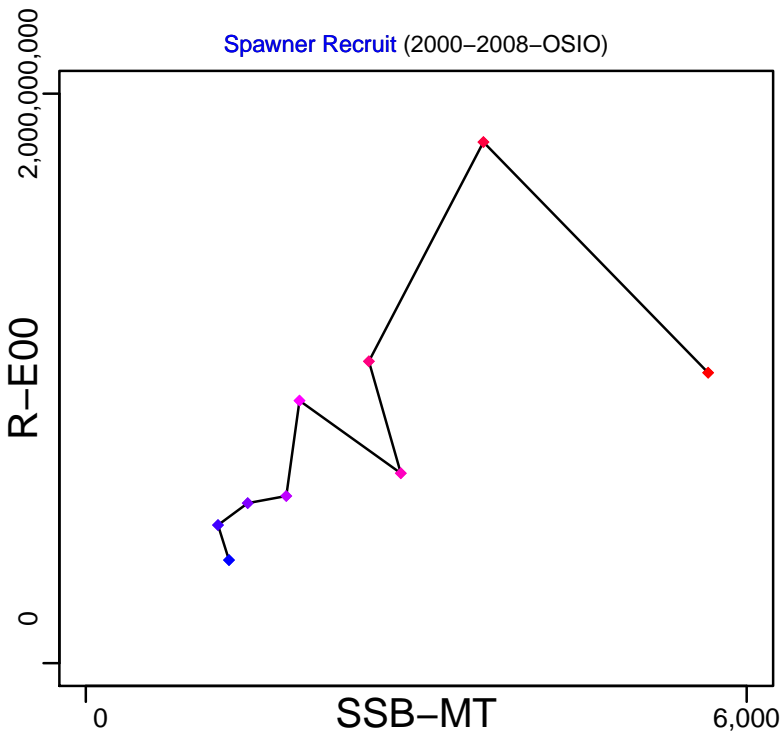
Kobe MSY*



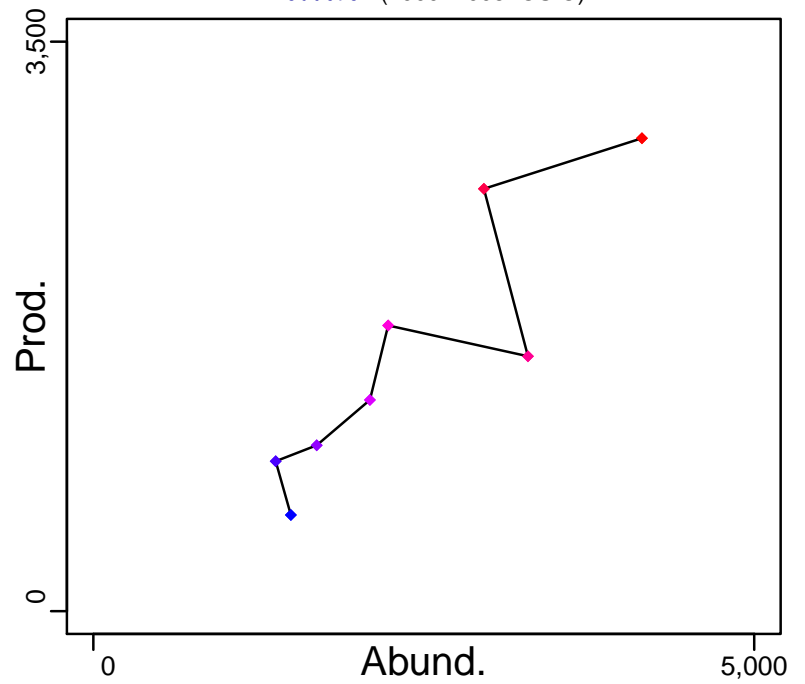
Kobe MGT*



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)



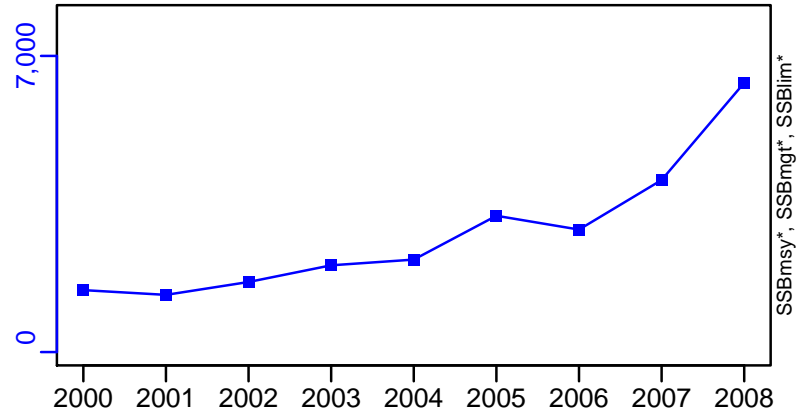
◆ Start Year ◆ End Year * No Data

European pilchard Eastern Ionian Sea [SARDMEDGSA20]

TB*



SSB-MT (2000–2008–OSIO)



TN *



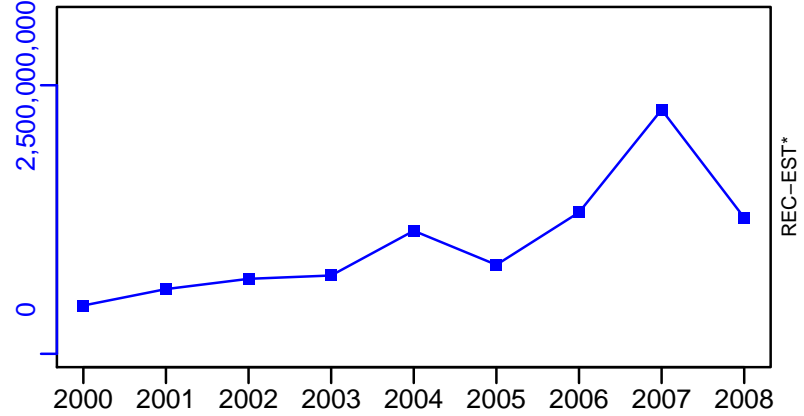
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

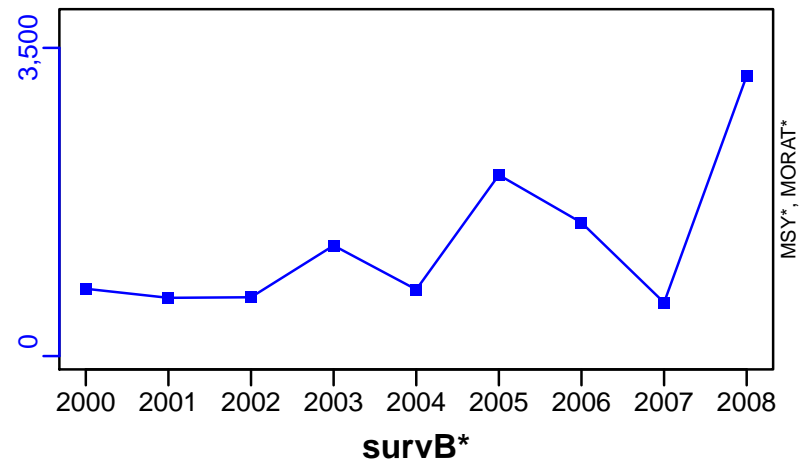


R-E00 (2000–2008–OSIO)



European pilchard Eastern Ionian Sea [SARDMEDGSA20]

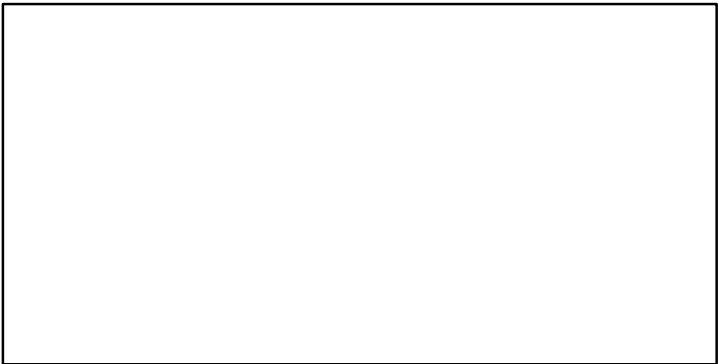
TC-MT, TL*, RecC* (2000–2008–OSIO)



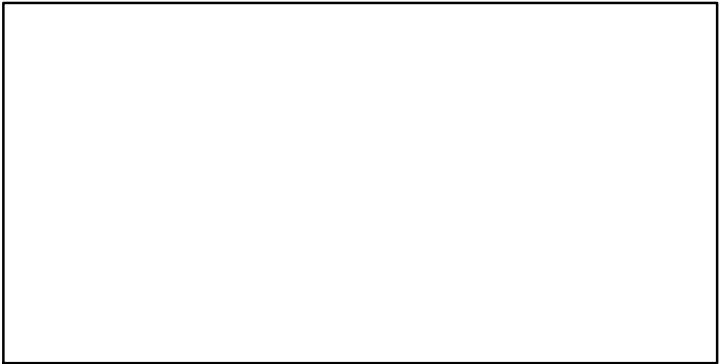
TAC*, Cpair*, Cadv*



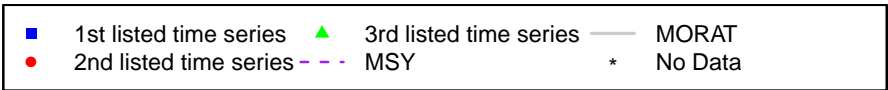
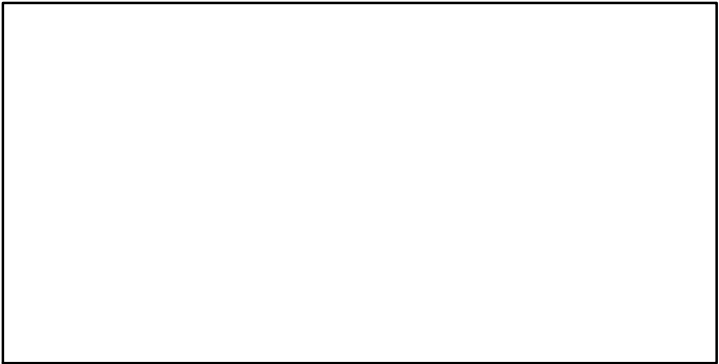
CPUE*



EFFORT*



CdivMSY*



European pilchard Aegean Sea [SARDMEDGSA22]

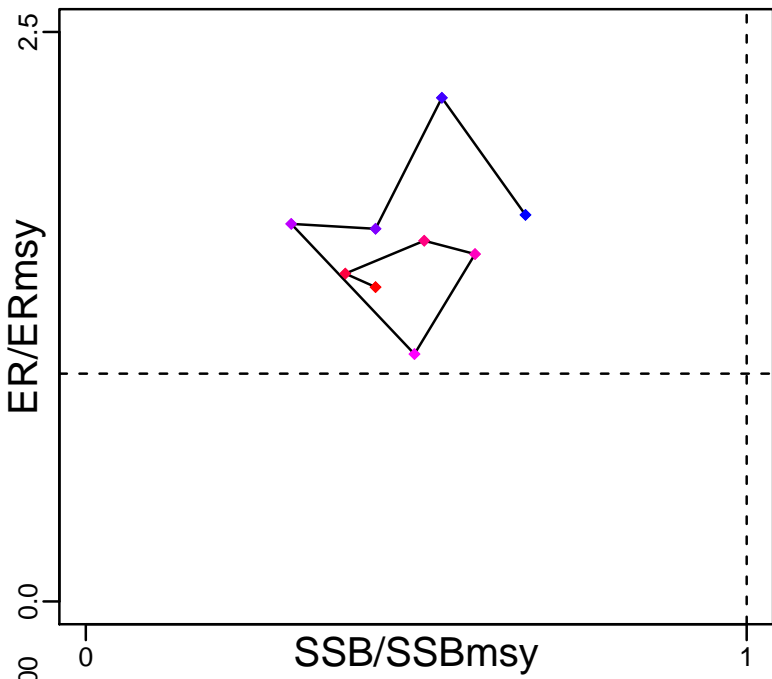
| Metadata | |
|-----------------------------|---|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | STECF-SARDMEDGSA22-2000-2008-OSIO |
| Area | Aegean Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2008 | 18,338 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2008 | 0.73 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2008 | 16,034 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

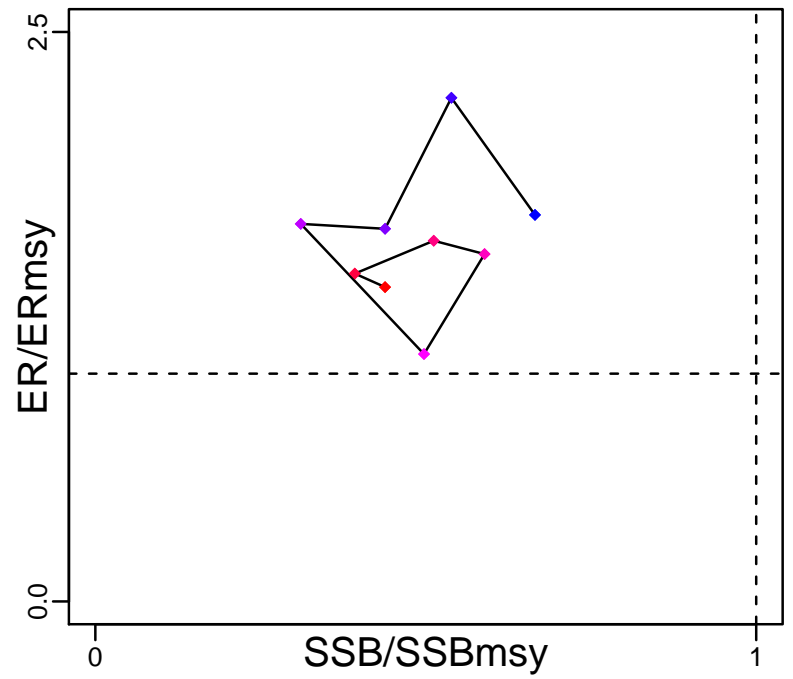
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2008 | 8040 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2008 | 6.46×10^9 | - | - |
| F | F-1/yr | 2008 | 0.752 | - | - |
| ER | ER-calc-ratio | 2008 | 1.008 | - | - |
| TC | TC-MT | 2008 | 9700 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2008 | 0.438 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2008 | 1.38 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

European pilchard Aegean Sea [SARDMEDGSA22]

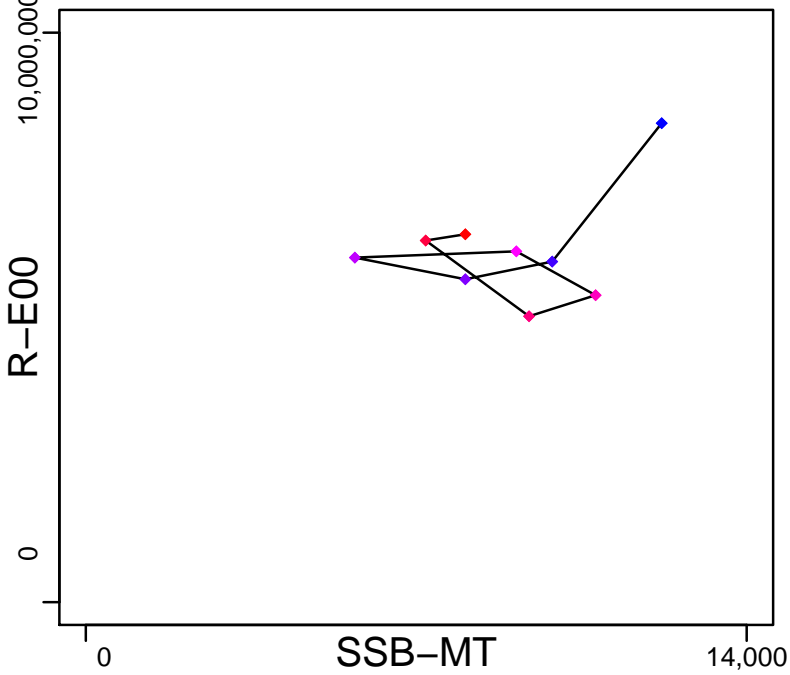
Kobe MSYpref (2000–2008–OSIO)



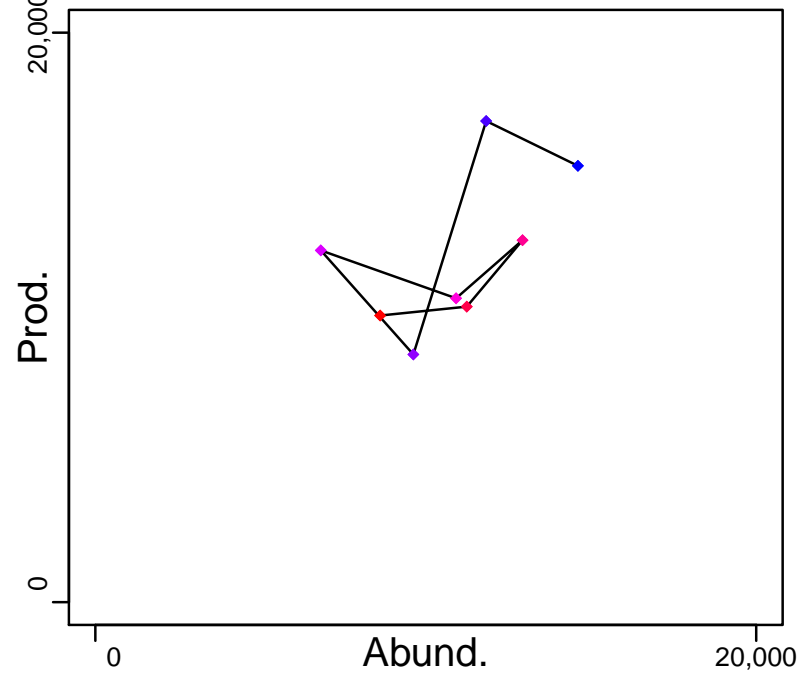
Kobe MGTpref (2000–2008–OSIO)



Spawner Recruit (2000–2008–OSIO)



Production (2000–2008–OSIO)



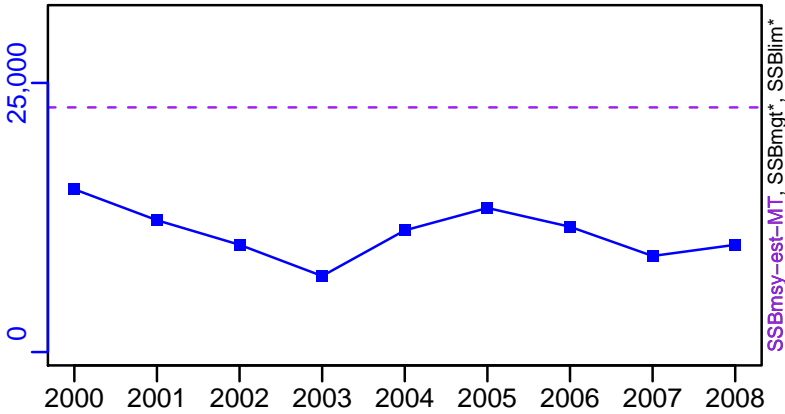
◆ Start Year ◆ End Year * No Data

European pilchard Aegean Sea [SARDMEDGSA22]

TB*



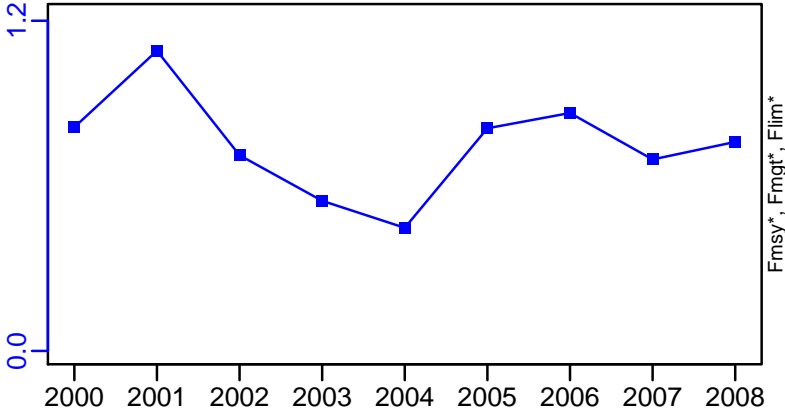
SSB-MT (2000–2008–OSIO)



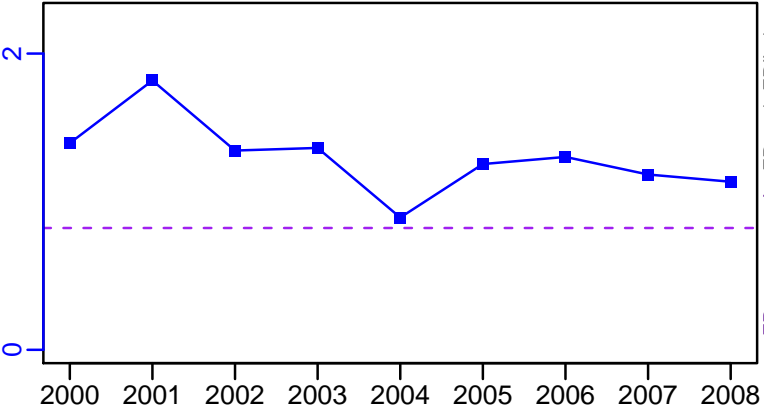
TN *



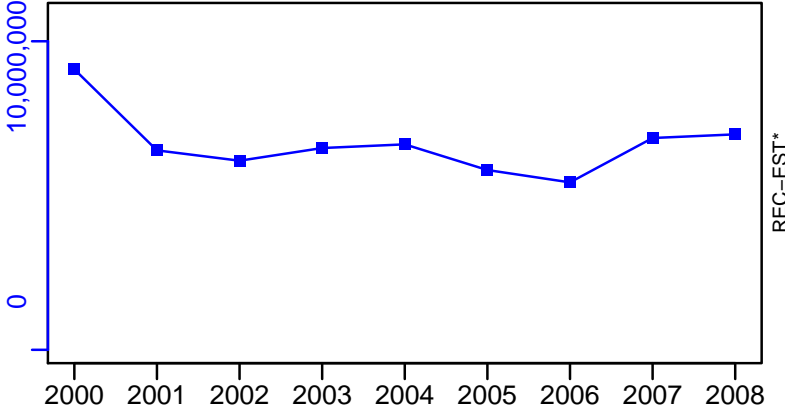
F-1/yr (2000–2008–OSIO)



ER-calc-ratio (2000–2008–OSIO)

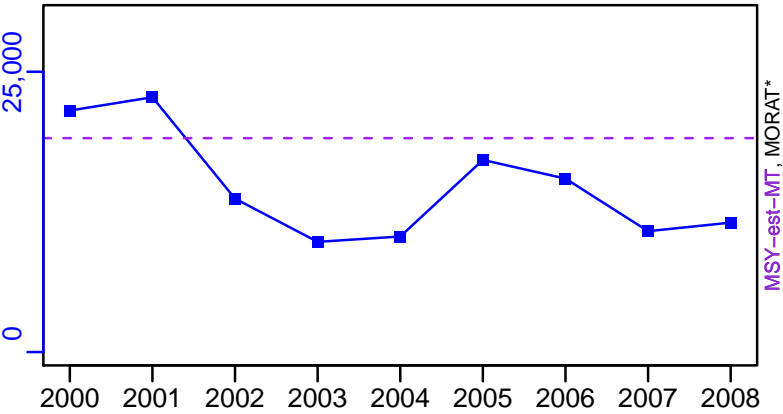


R-E00 (2000–2008–OSIO)



European pilchard Aegean Sea [SARDMEDGSA22]

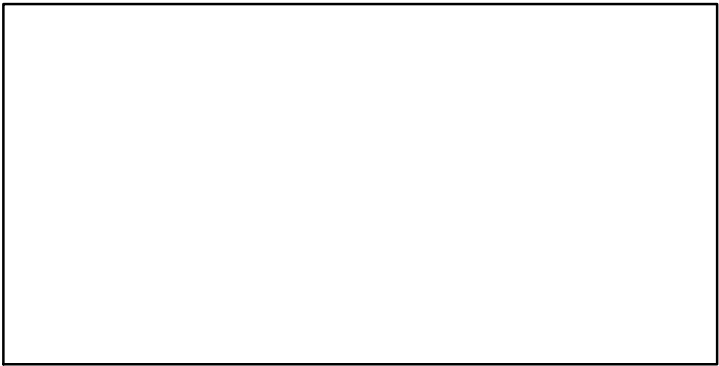
TC-MT, TL*, RecC* (2000-2008-OSIO)



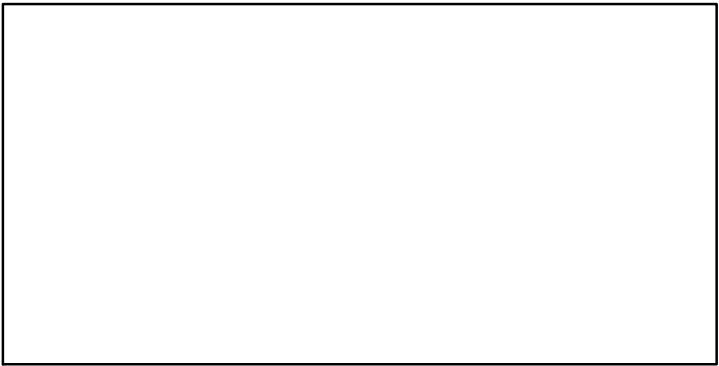
TAC*, Cpair*, Cadv*



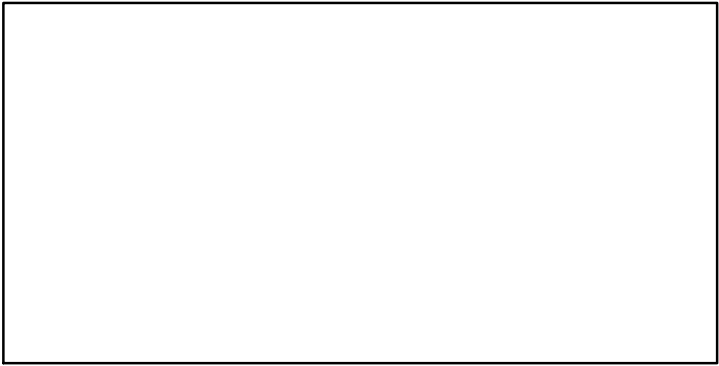
survB*



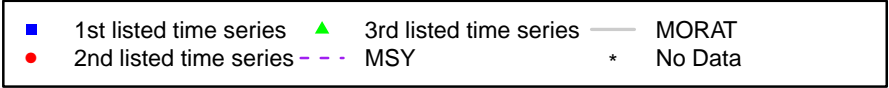
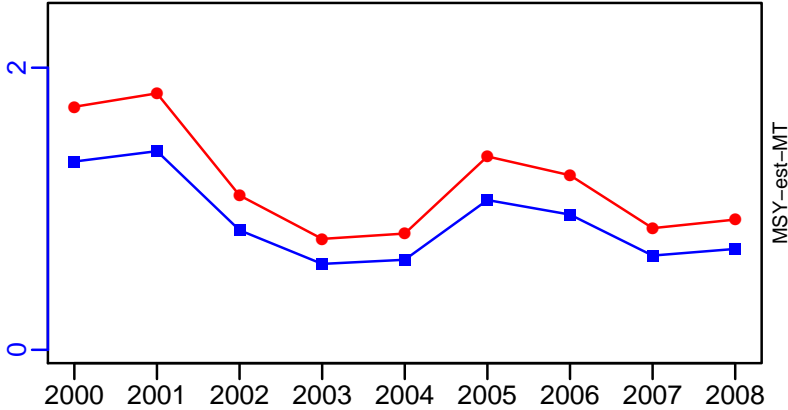
CPUE*



EFFORT*



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



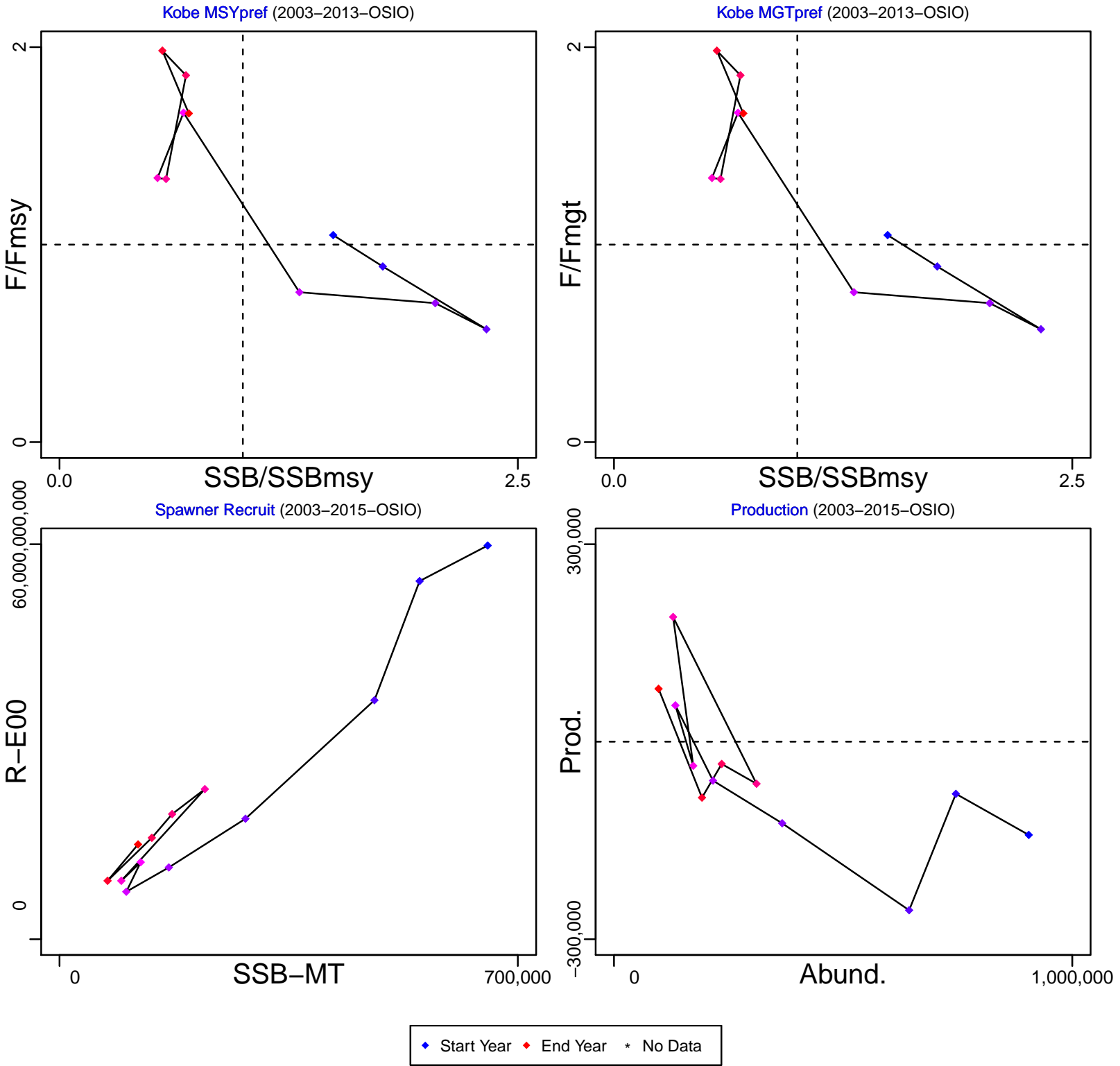
European pilchard Northern Spain [SARDMEDGSA6]

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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2013 | 45,085 |
| Fmsy | Fmsy-1/yr | 2015 | 0.7 |
| ERmsy | ERmsy-est-ratio | 2013 | 0.164 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.7 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2013 | 14,007 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

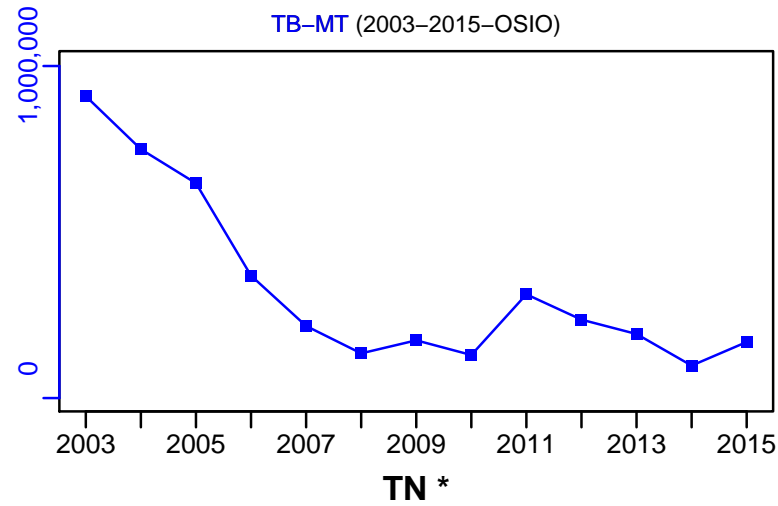
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 168,000 | - | - |
| SSB | SSB-MT | 2015 | 120,000 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 1.44×10^{10} | - | - |
| F | F-1/yr | 2015 | 1.77 | - | - |
| ER | ER-calc-ratio | 2015 | 0.038 | - | - |
| TC | TC-MT | 2015 | 6310 | | |
| TL | TL-MT | 2015 | 6310 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2013 | 0.705 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2015 | 2.529 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2013 | 0.985 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 2.529 | | |
| ER/ERmgt | - | - | - | | |

European pilchard Northern Spain [SARDMEDGSA6]

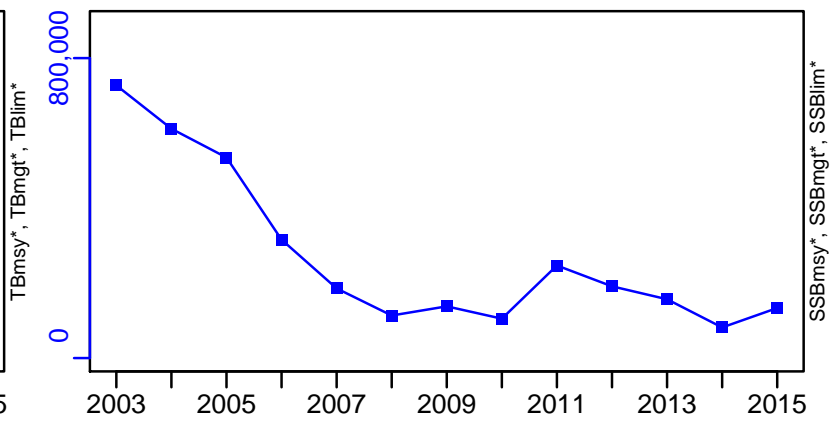


European pilchard Northern Spain [SARDMEDGSA6]

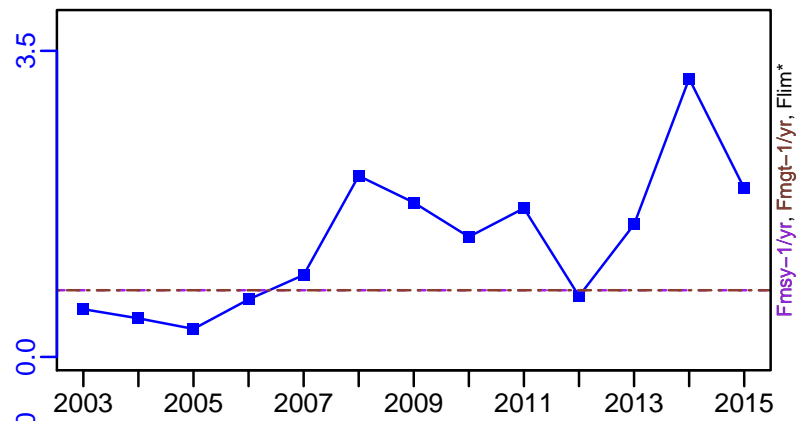
TB-MT (2003–2015–OSIO)



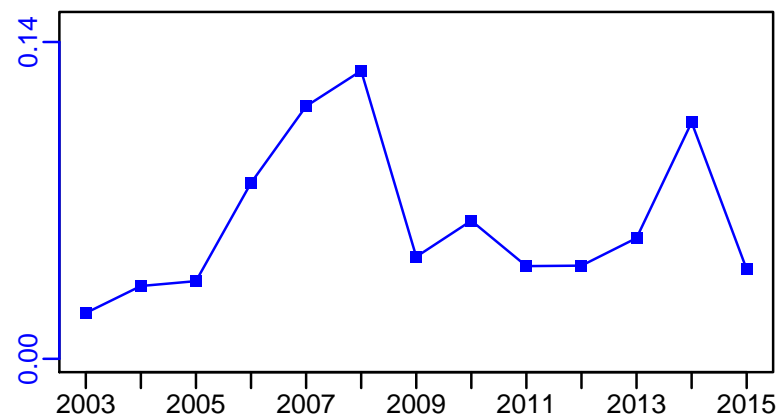
SSB-MT (2003–2015–OSIO)



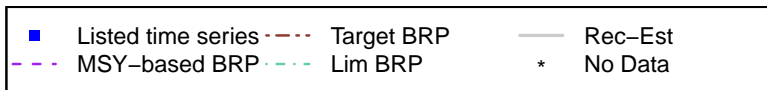
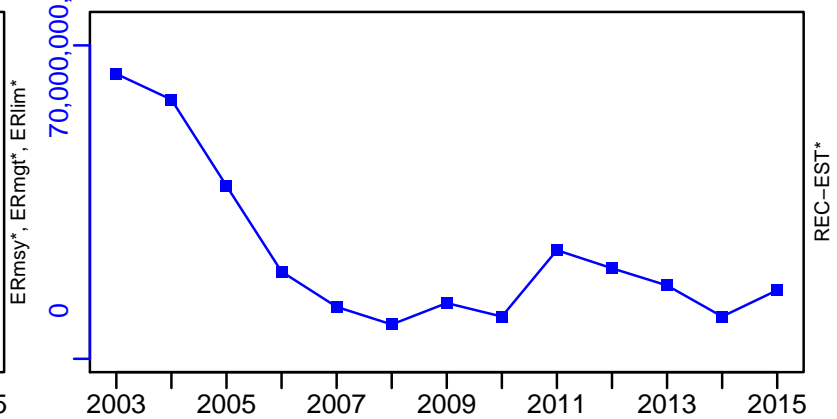
F-1/yr (2003–2015–OSIO)



ER-calc-ratio (2003–2015–OSIO)

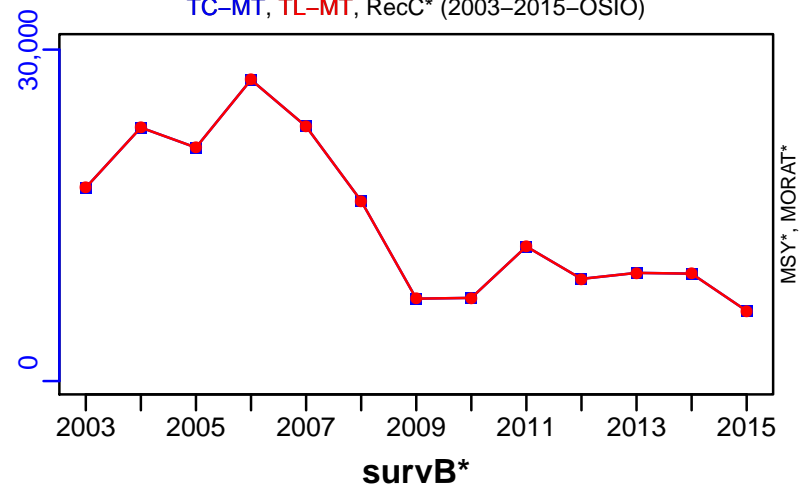


R-E00 (2003–2015–OSIO)



European pilchard Northern Spain [SARDMEDGSA6]

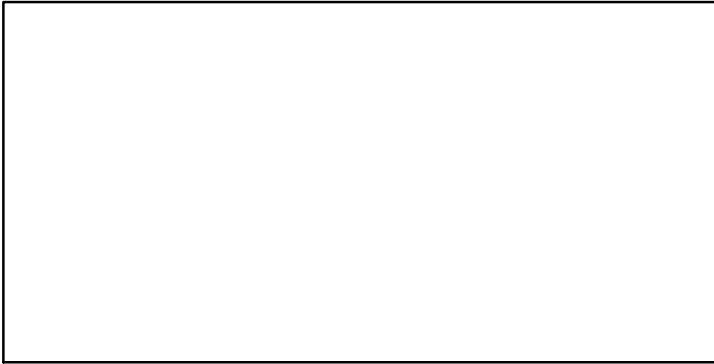
TC-MT, TL-MT, RecC* (2003–2015–OSIO)



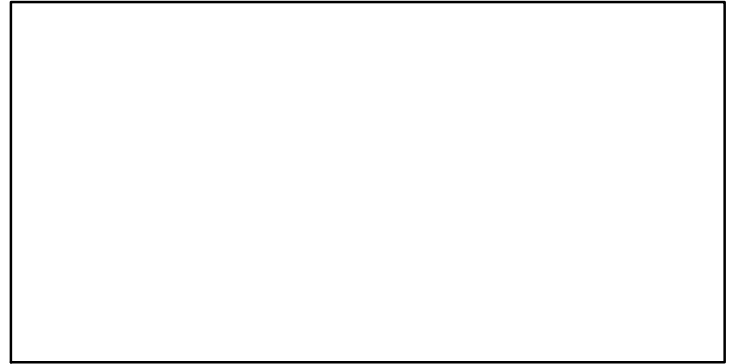
TAC*, Cpair*, Cadv*



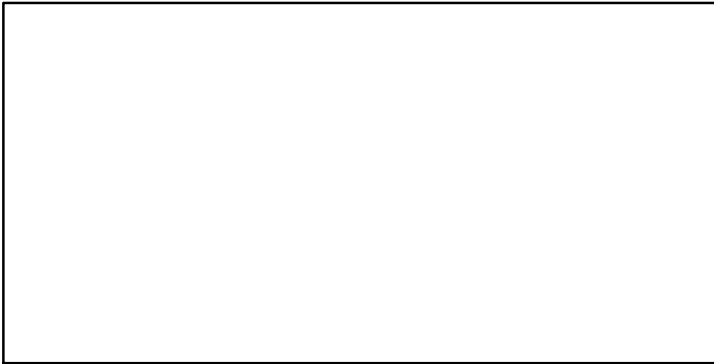
survB*



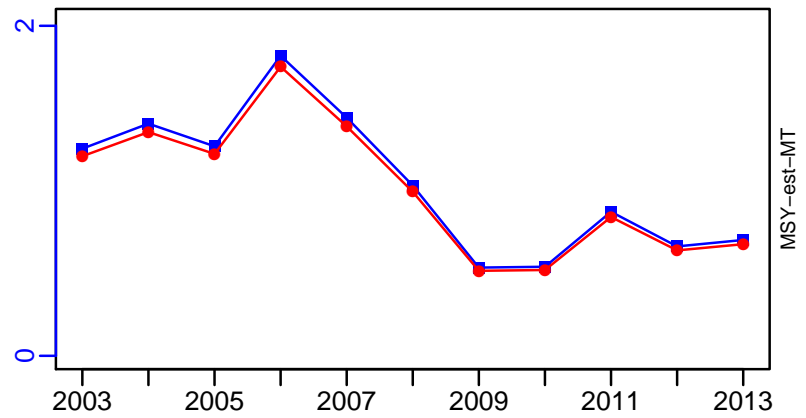
CPUE*



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]

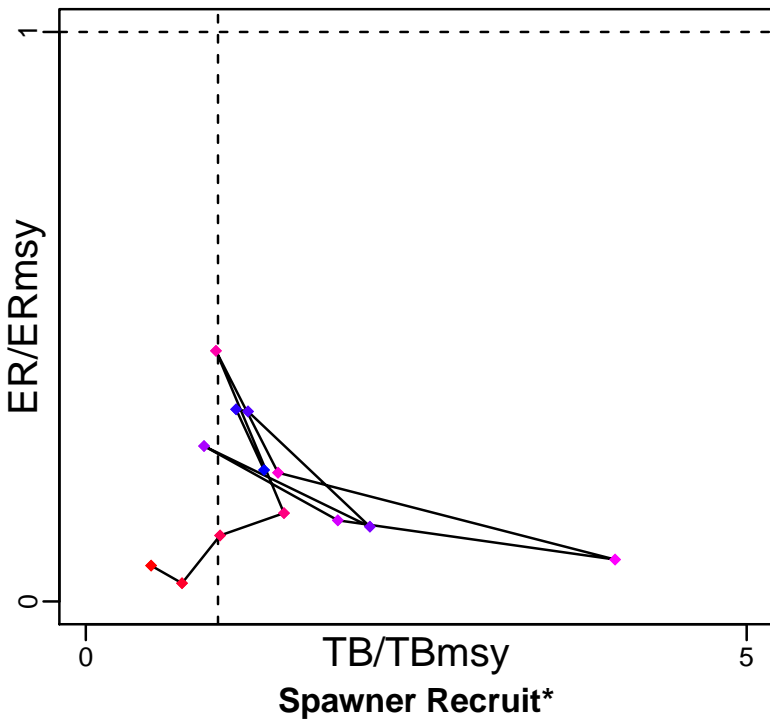
| Metadata | |
|-----------------------------|---|
| Scientific Name | Sardina pilchardus |
| Current Assess ID | IFREMER-SARDMEDGSA7-1993-2012-BANOBI |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | French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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2012 | 57,689 |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.436 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 25,156 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

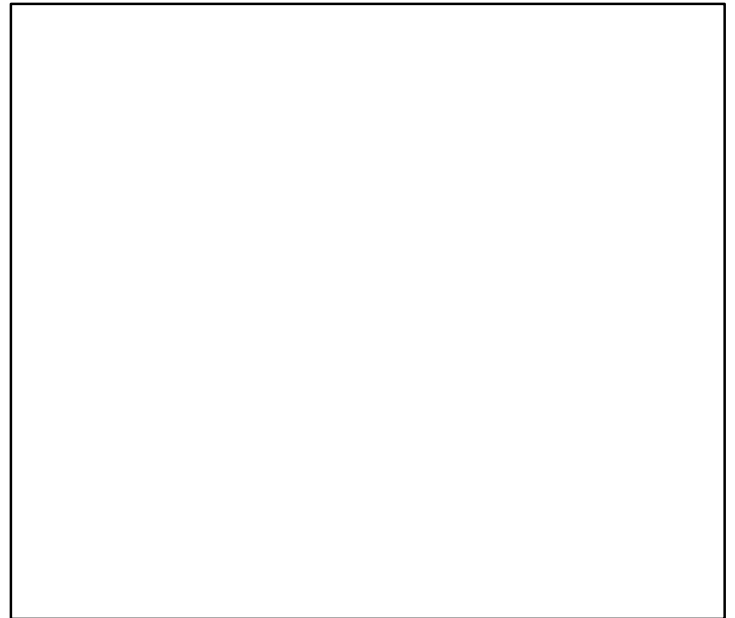
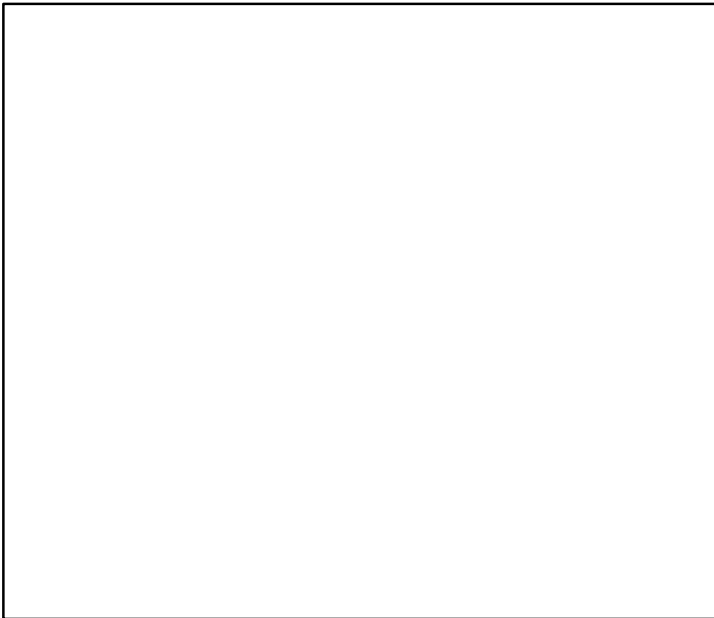
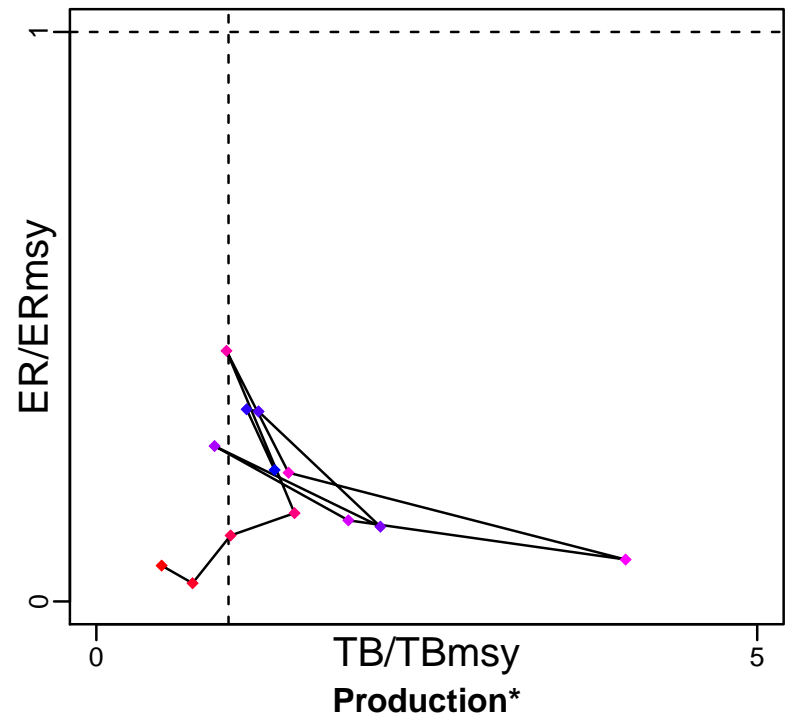
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2012 | 115,000 | - | - |
| SSB | - | - | - | - | - |
| TN | - | - | - | - | - |
| R | R-MT | 2012 | 57,500 | - | - |
| F | - | - | - | - | - |
| ER | ER-calc-ratio | 2012 | 0.027 | - | - |
| TC | TC-MT | 2012 | 782 | | |
| TL | - | - | - | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2012 | 1.993 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 0.063 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Sardine Gulf of Lions [SARDMEDGSA7]

Kobe MSYpref (1993–2012–BANOB)



Kobe MGTpref (1993–2012–BANOB)

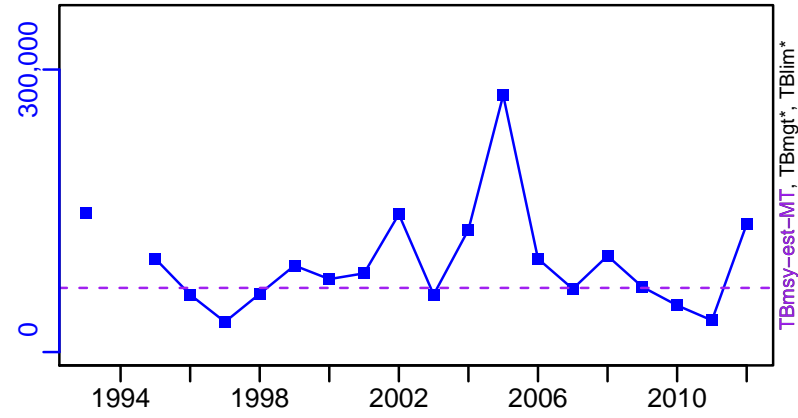


◆ Start Year ◆ End Year * No Data

Sardine Gulf of Lions [SARDMEDGSA7]

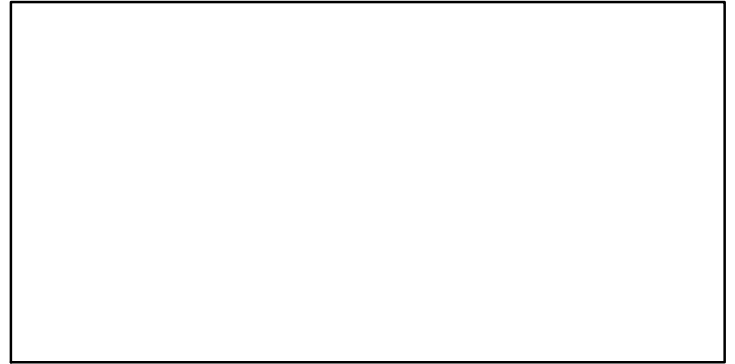
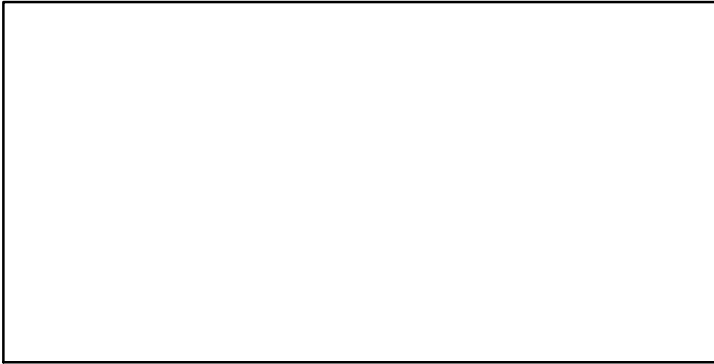
TB-MT (1993–2012–BANOB)

SSB*



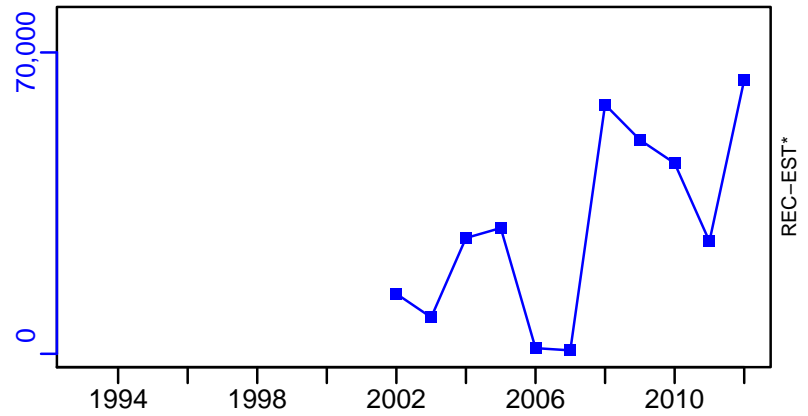
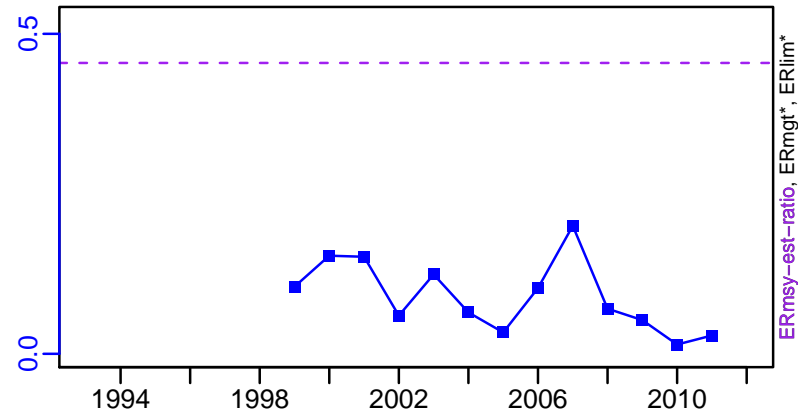
TN *

F*



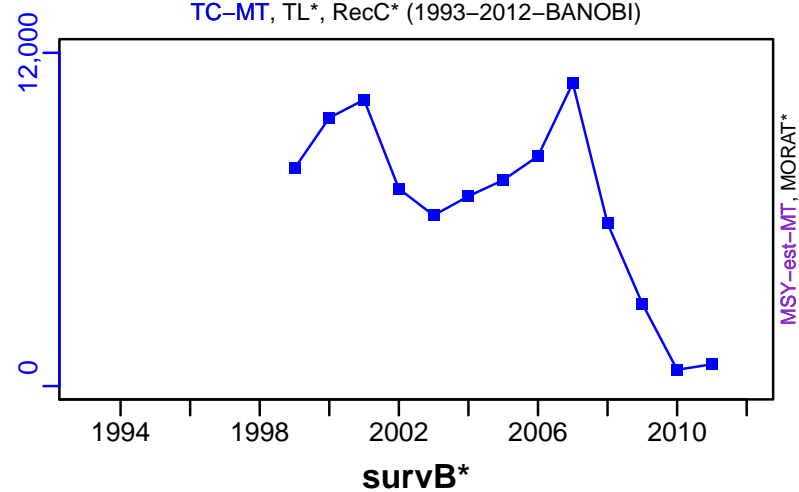
ER-calc-ratio (1993–2012–BANOB)

R-MT (1993–2012–BANOB)



Sardine Gulf of Lions [SARDMEDGSA7]

TC-MT, TL*, RecC* (1993–2012–BANOB)



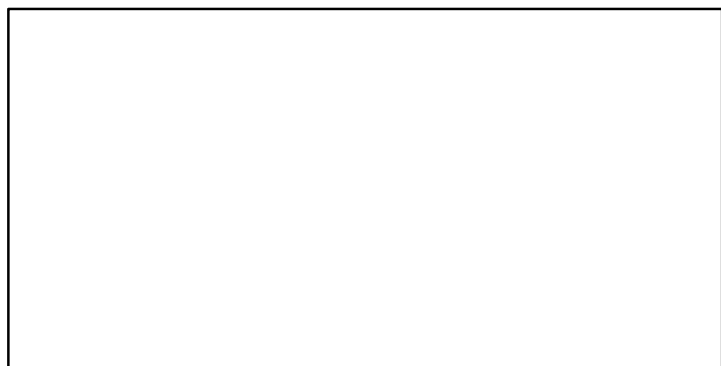
TAC*, Cpair*, Cadv*



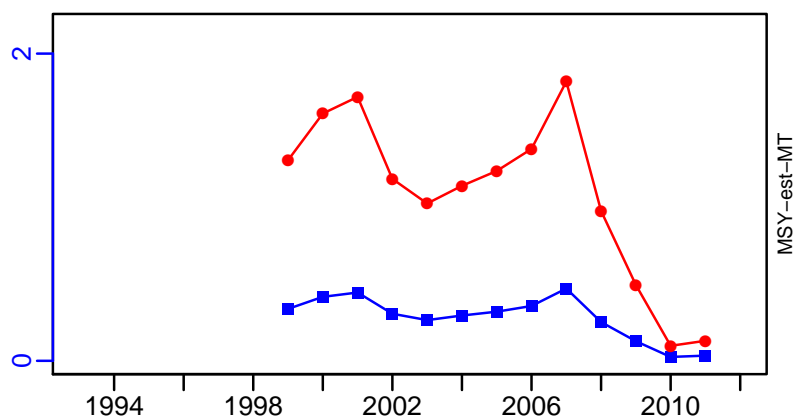
CPUE*



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

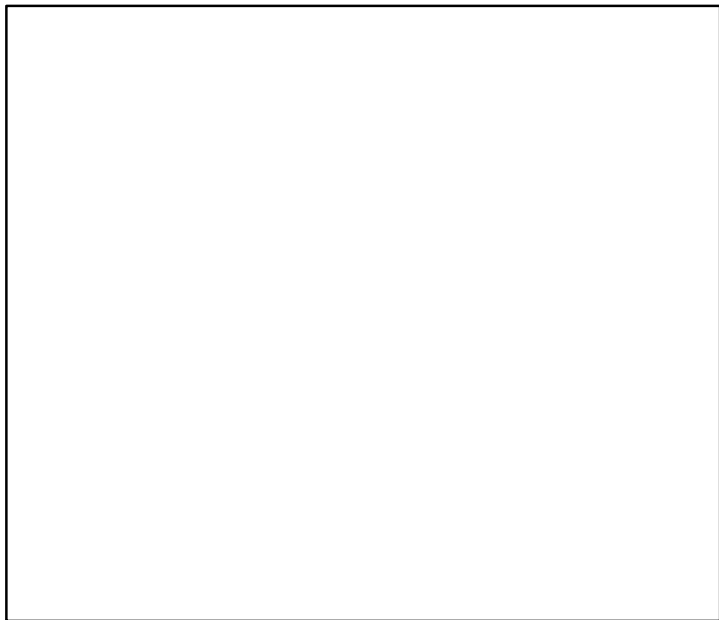
Kobe MSY*



Kobe MGT*



Spawner Recruit*



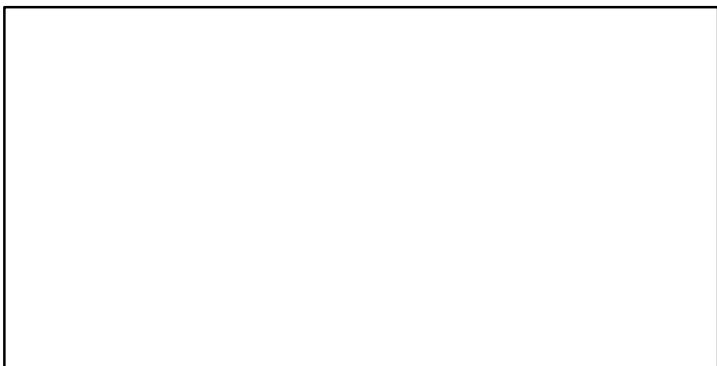
Production*



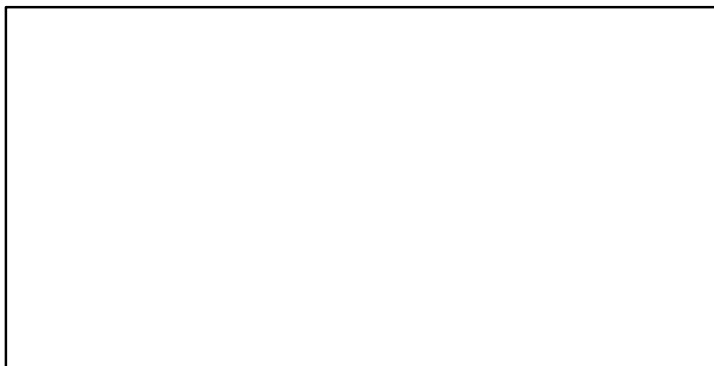
◆ Start Year ◆ End Year * No Data

European pilchard Ligurian and North Tyrrhenian Sea [SARDMEDGSA9]

TB*



SSB*



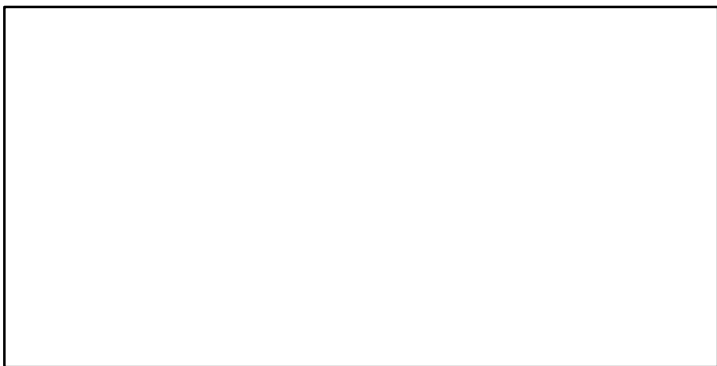
TN *



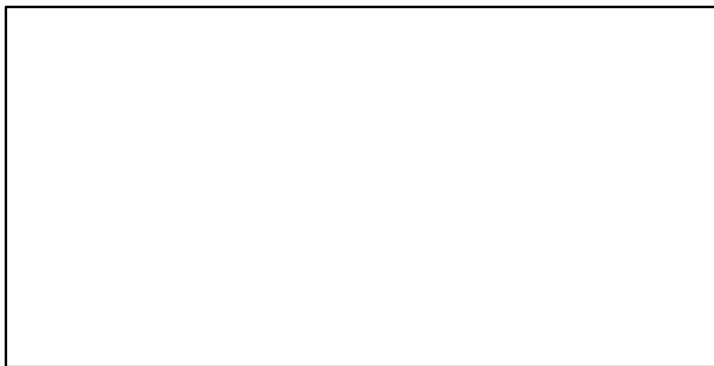
F*



ER*



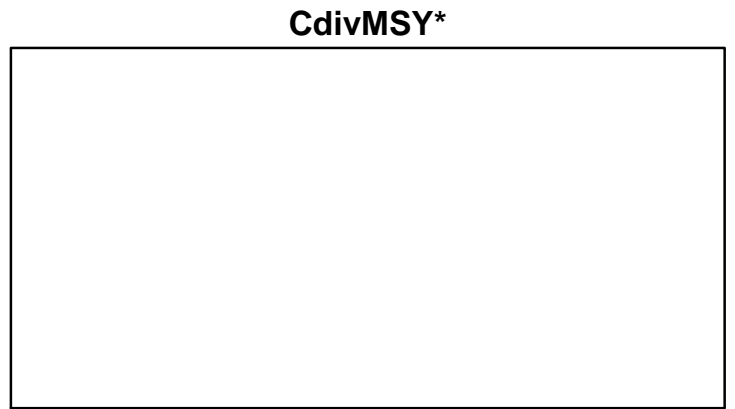
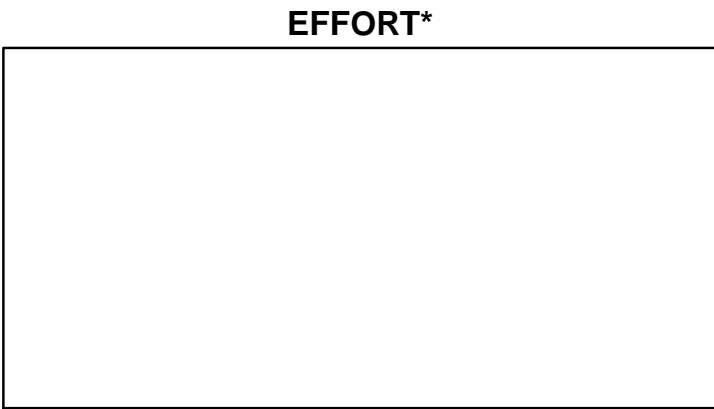
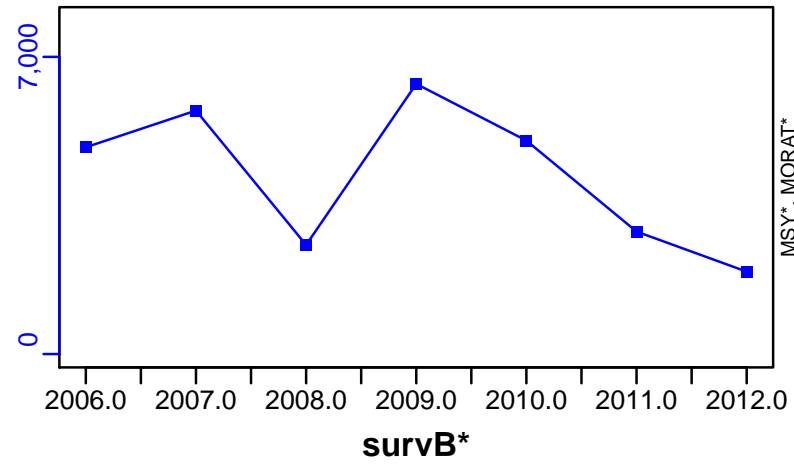
Recruits*



European pilchard Ligurian and North Tyrrhenian Sea [SARDMEDGSA9]

TC-MT, TL*, RecC* (2006–2012–OSIO)

TAC*, Cpair*, Cadv*



Spiny dogfish Black Sea [SDOGBLKGS29]

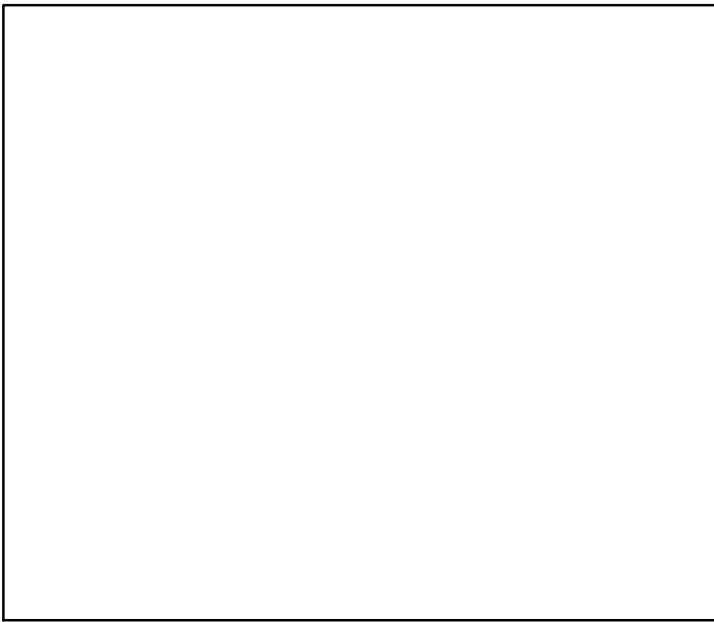
| Metadata | |
|-----------------------------|---|
| Scientific Name | Squalus acanthias |
| Current Assess ID | STECF-SDOGBLKGS29-1989-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2011, 2014 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.08 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | M-1/yr | 2011 | 0.15 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 693 | - | 12+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 62,900 | - | - |
| F | F-1/yr | 2014 | 0.24 | - | - |
| ER | ER-calc-ratio | 2014 | 0.01 | - | - |
| TC | TC-MT | 2014 | 75 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 3 | | |
| ER/ERmgt | - | - | - | | |

Spiny dogfish Black Sea [SDOGBLKGSA29]

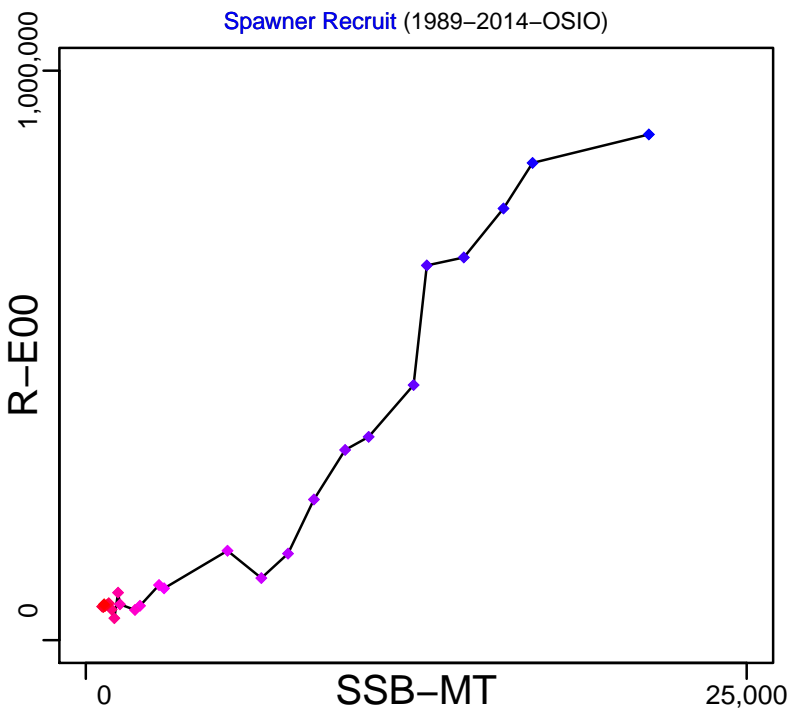
Kobe MSY*



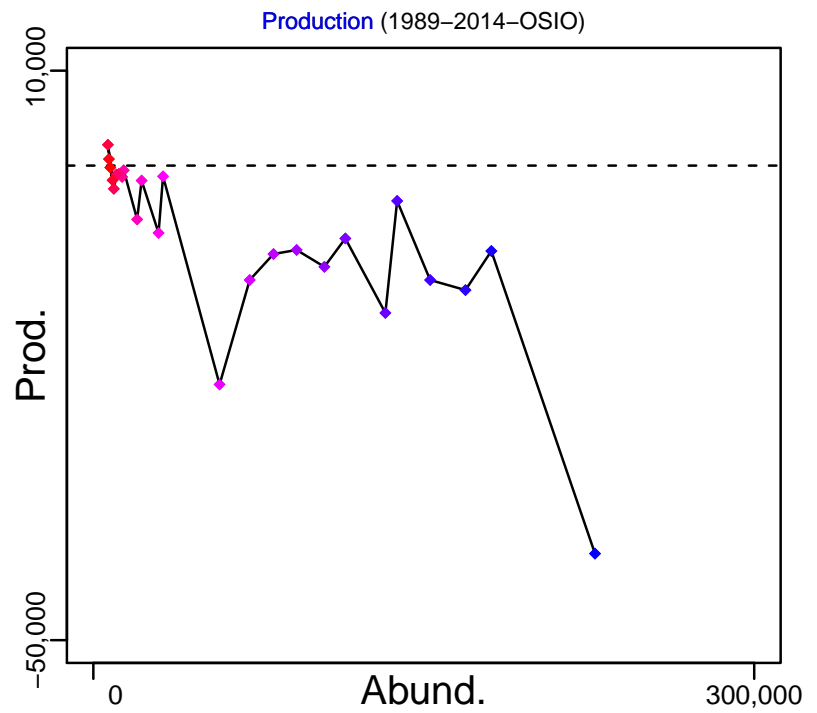
Kobe MGT*



Spawner Recruit (1989–2014–OSIO)



Production (1989–2014–OSIO)



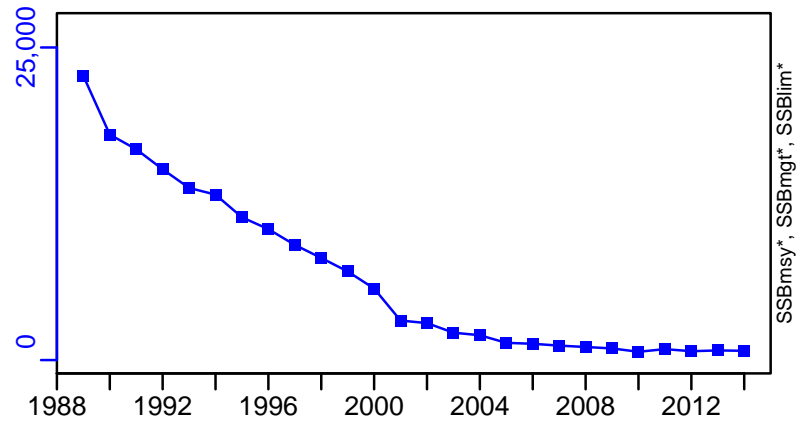
◆ Start Year ◆ End Year * No Data

Spiny dogfish Black Sea [SDOGBLKGA29]

TB*



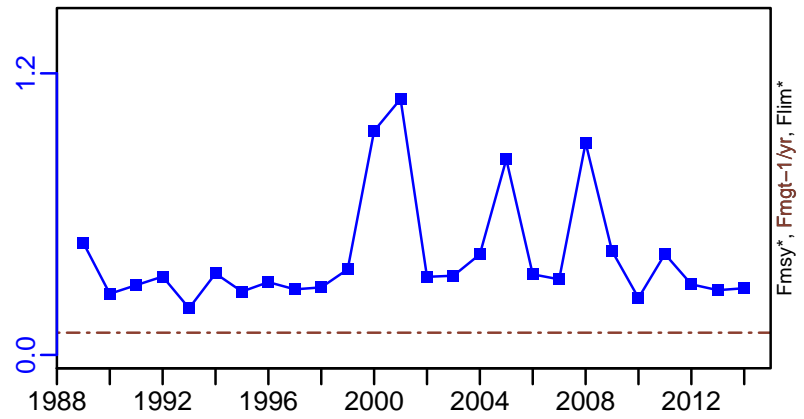
SSB-MT (1989–2014–OSIO)



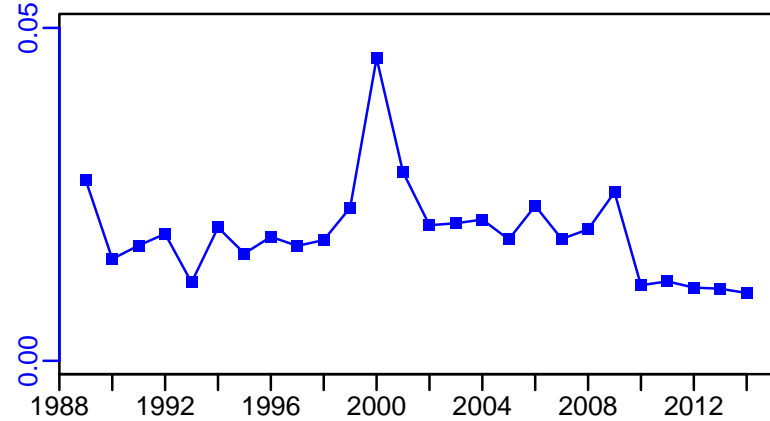
TN *



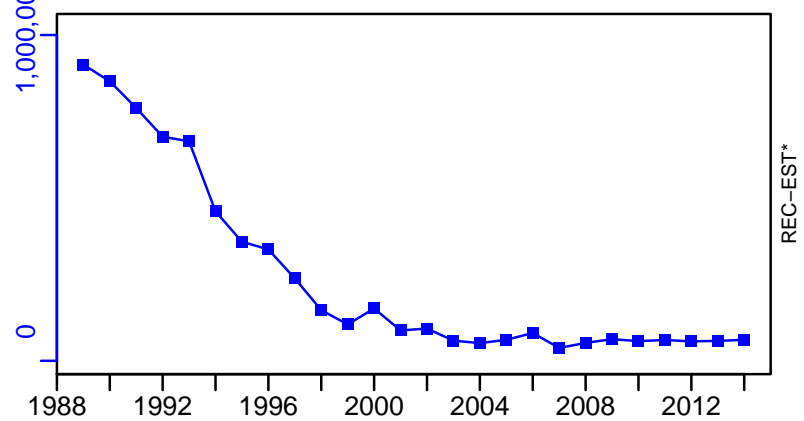
F-1/yr (1989–2014–OSIO)



ER-calc-ratio (1989–2014–OSIO)

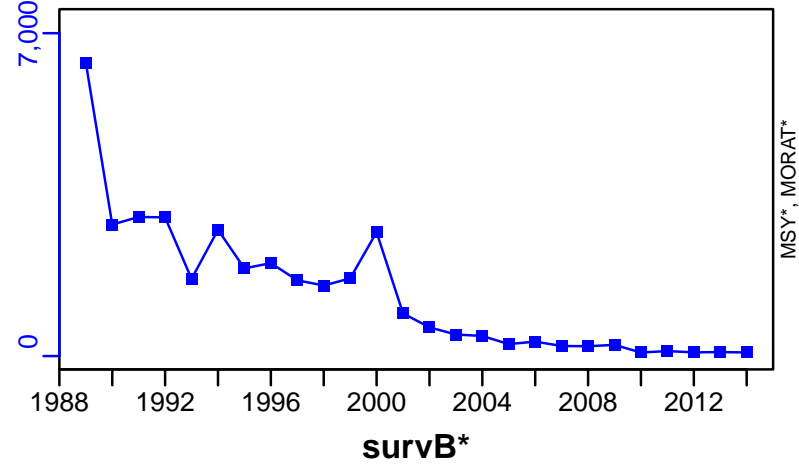


R-E00 (1989–2014–OSIO)



Spiny dogfish Black Sea [SDOGBLKGSA29]

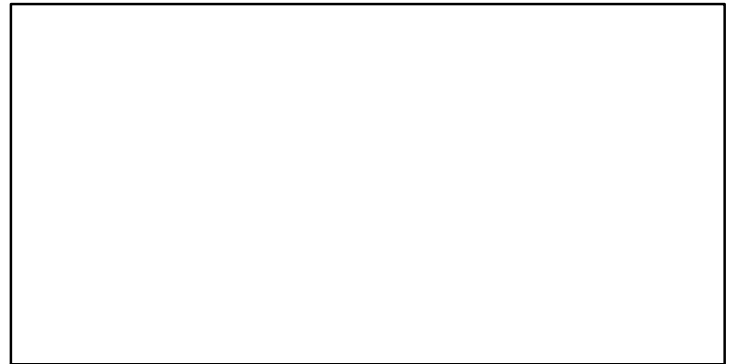
TC-MT, TL*, RecC* (1989–2014–OSIO)



TAC*, Cpair*, Cadv*



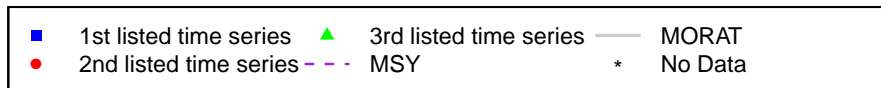
CPUE*



EFFORT*



CdivMSY*



Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

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

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2011 | 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 | 2011 | 1.08 | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2011 | 387 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2011 | 2.634 | | |
| ER/ERmgt | - | - | - | | |

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



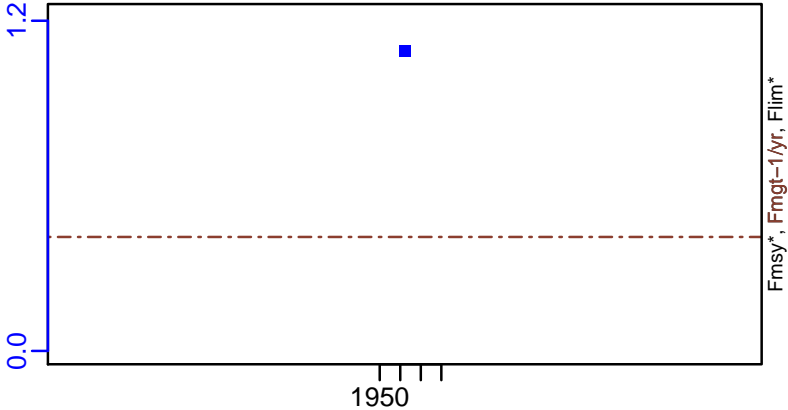
SSB*



TN *



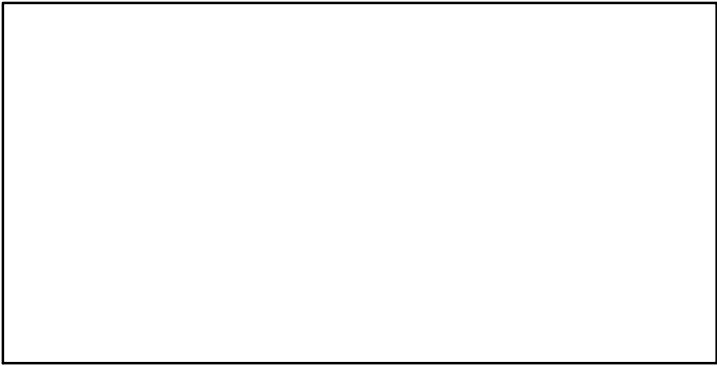
F-1/yr (2011-2011-OSIO)



ER*



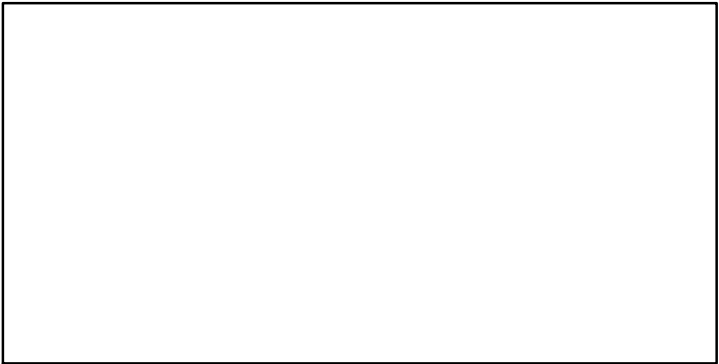
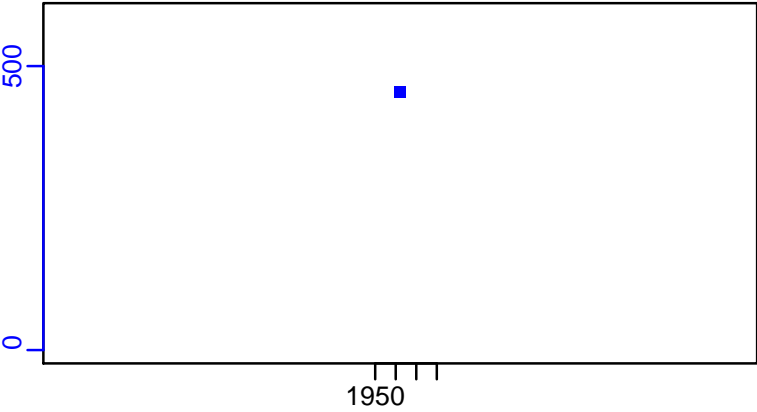
Recruits*



Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

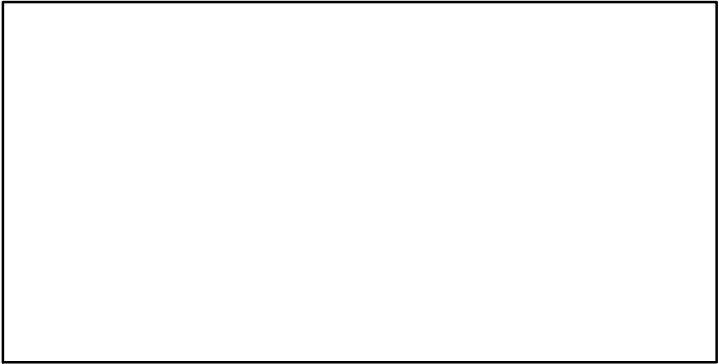
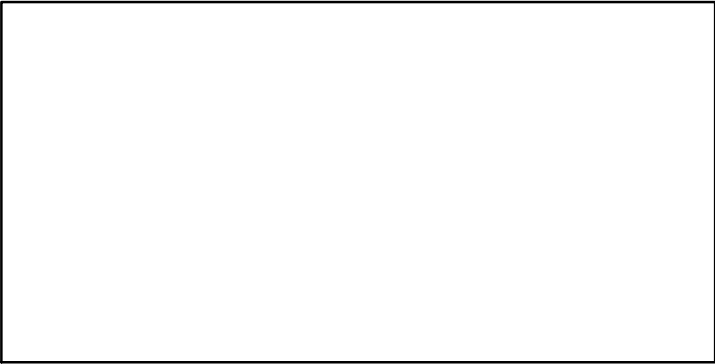
TC-MT, TL*, RecC* (2011-2011-OSIO)

TAC*, Cpair*, Cadv*



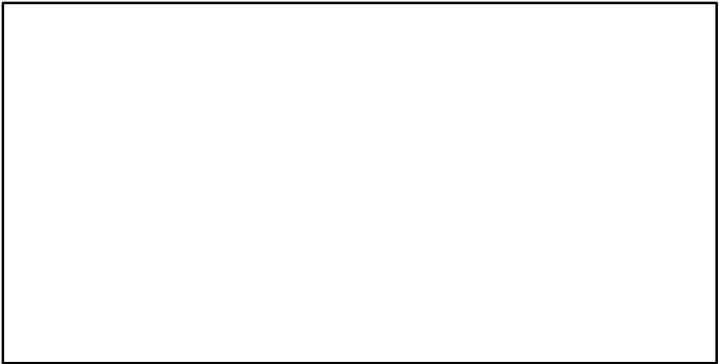
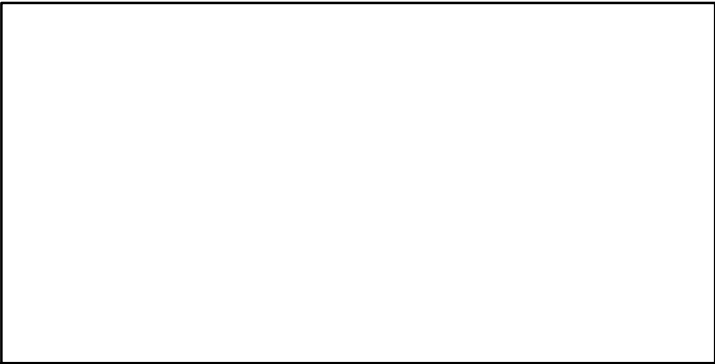
survB*

CPUE*



EFFORT*

CdivMSY*



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

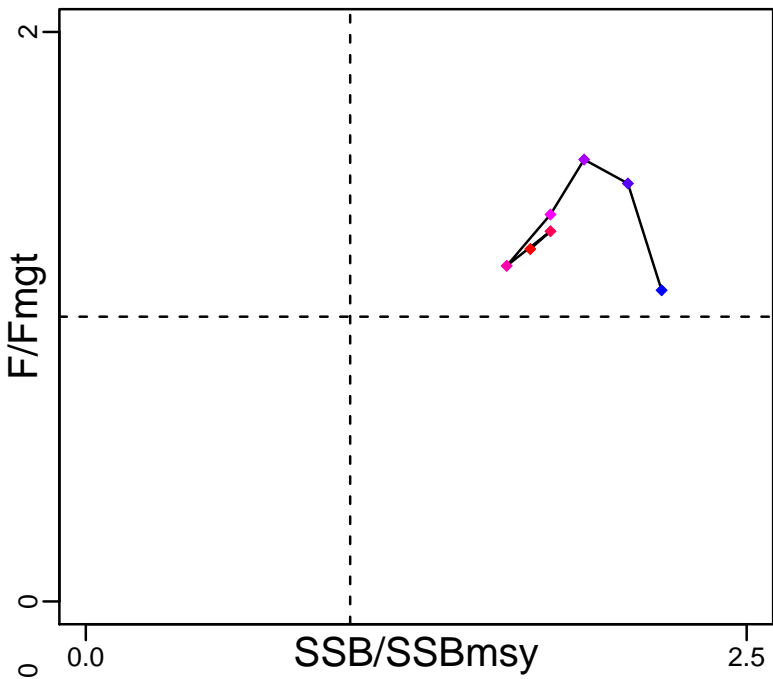
| Metadata | |
|-----------------------------|---|
| Scientific Name | Squilla mantis |
| Current Assess ID | STECF-SMHRMPMEDGSA17-18-2008-2014-OSIO |
| Area | Adriatic Sea (GSA 17,18) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 7851 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2014 | 0.201 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.56 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 6716 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

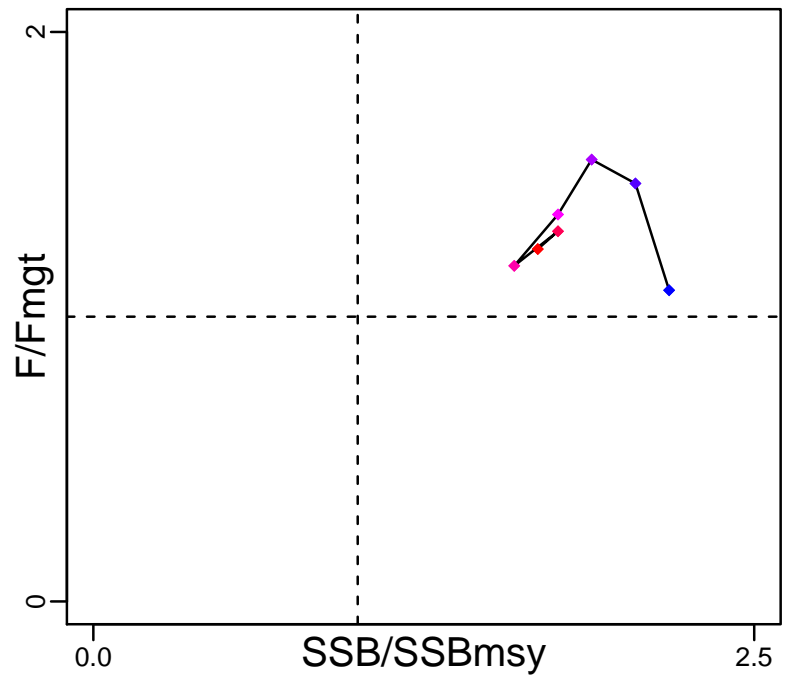
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 13,200 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.12×10^9 | - | - |
| F | F-1/yr | 2014 | 0.693 | - | - |
| ER | ER-calc-ratio | 2014 | 0.077 | - | - |
| TC | TC-MT | 2014 | 4290 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.681 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.38 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.238 | | |
| ER/ERmgt | - | - | - | | |

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

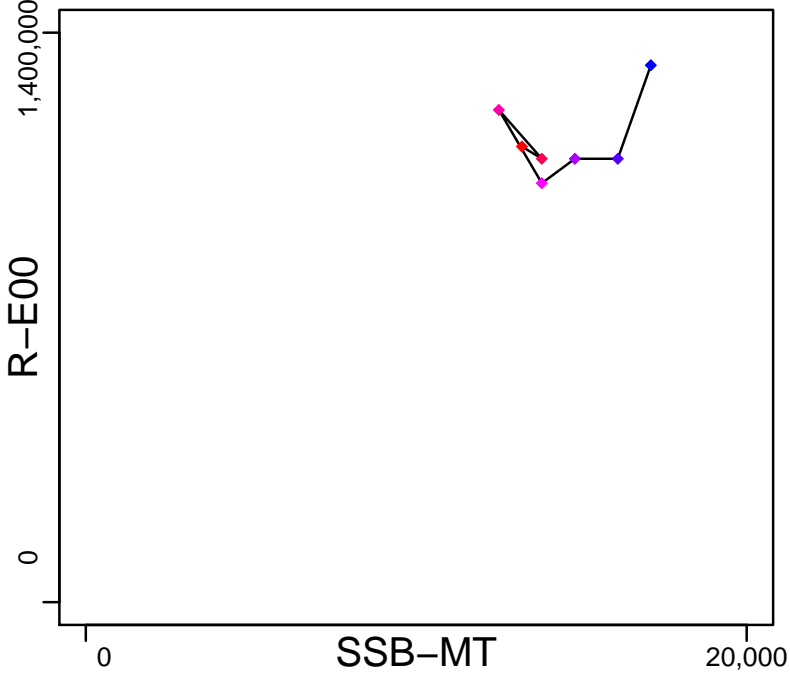
Kobe MSYpref (2008–2014–OSIO)



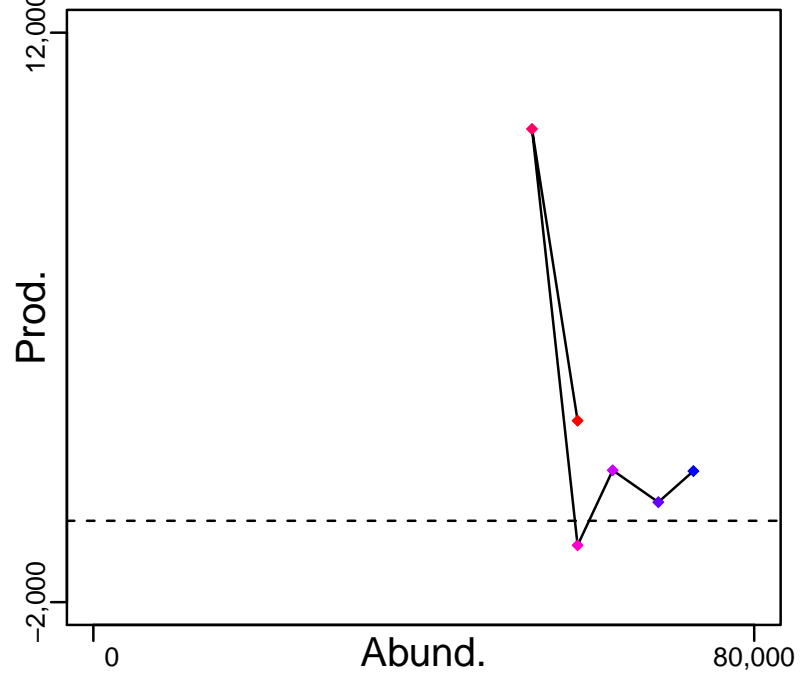
Kobe MGTpref (2008–2014–OSIO)



Spawner Recruit (2008–2014–OSIO)



Production (2008–2014–OSIO)



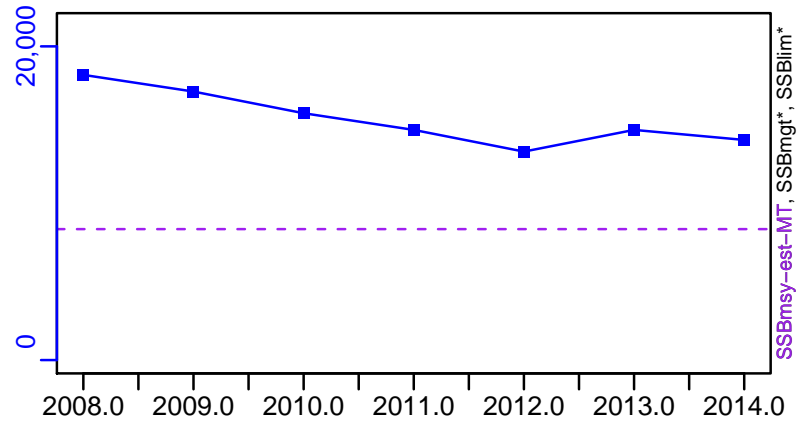
◆ Start Year ◆ End Year * No Data

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

TB*



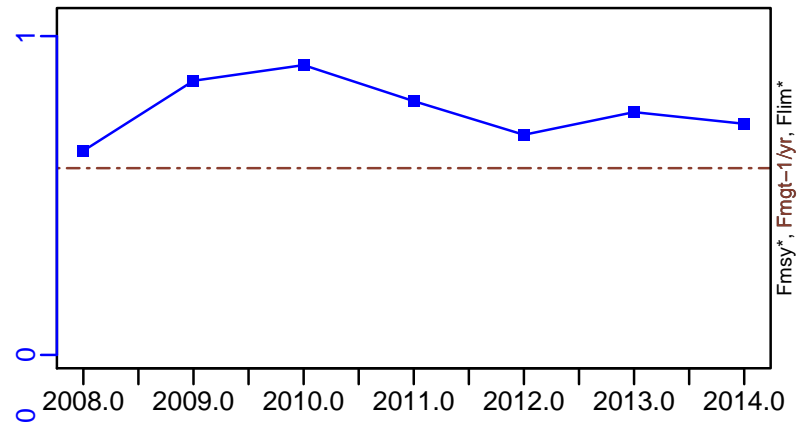
SSB-MT (2008-2014-OSIO)



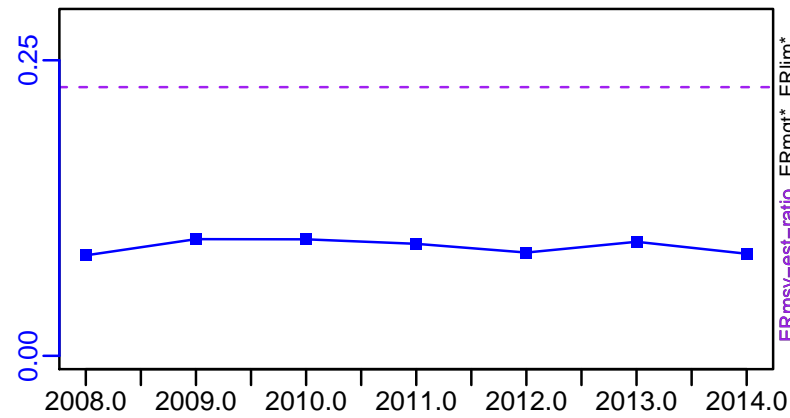
TN *



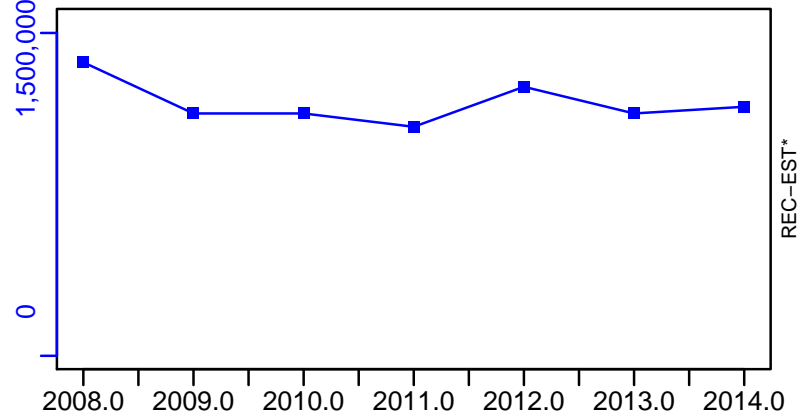
F-1/yr (2008-2014-OSIO)



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

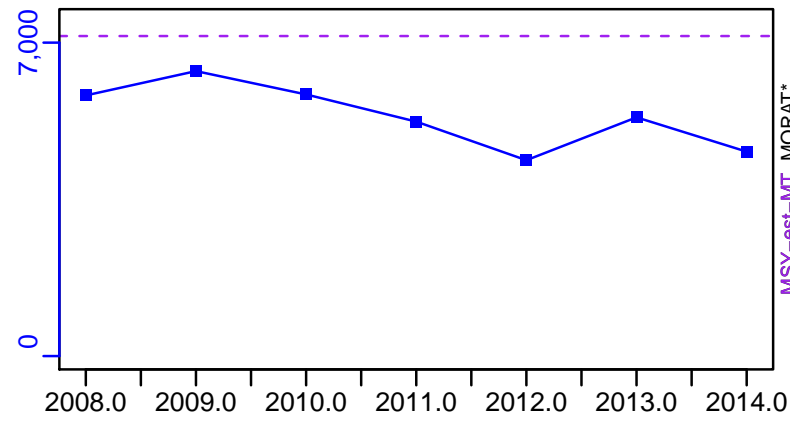


R-E00 (2008-2014-OSIO)



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

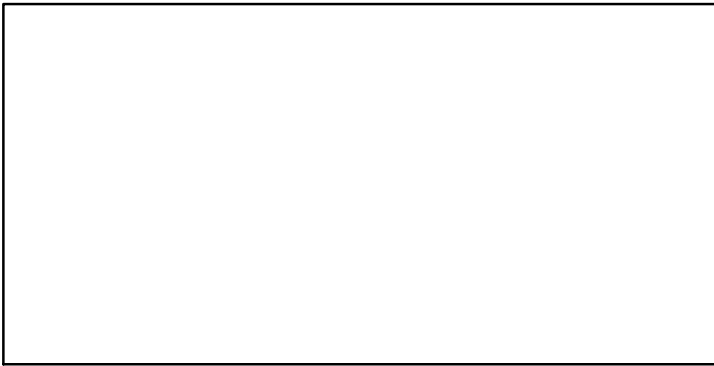
TC-MT, TL*, RecC* (2008-2014-OSIO)



TAC*, Cpair*, Cadv*



survB*



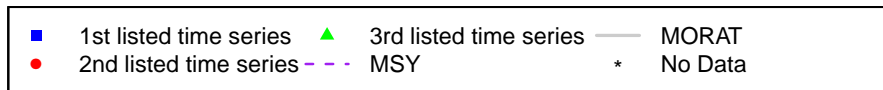
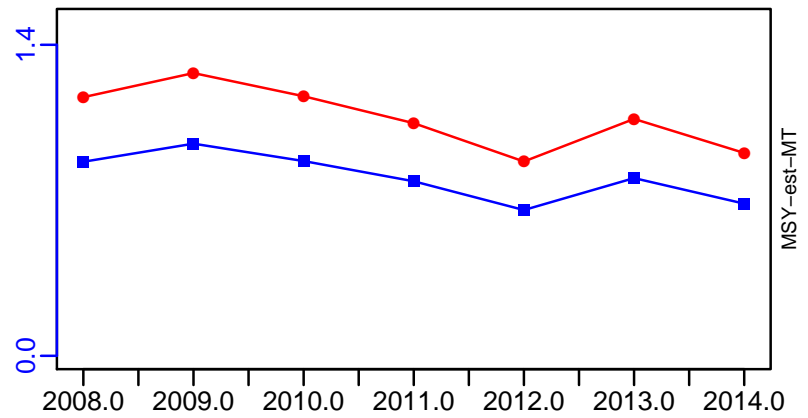
CPUE*



EFFORT*



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



Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Squilla mantis |
| Current Assess ID | STECF-SMSHRMPMEDGSA9-2004-2010-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2010 |

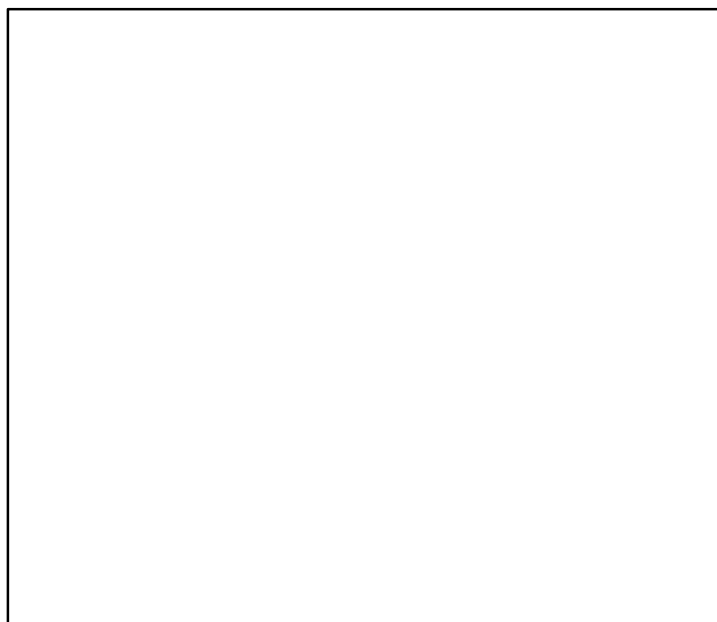
| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2010 | 0.54 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|-------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2010 | 430 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2010 | 4.5×10^7 | - | - |
| F | F-1/yr | 2010 | 1.2 | - | - |
| ER | ER-calc-ratio | 2010 | 0.202 | - | - |
| TC | TC-MT | 2010 | 386 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2010 | 2.222 | | |
| ER/ERmgt | - | - | - | | |

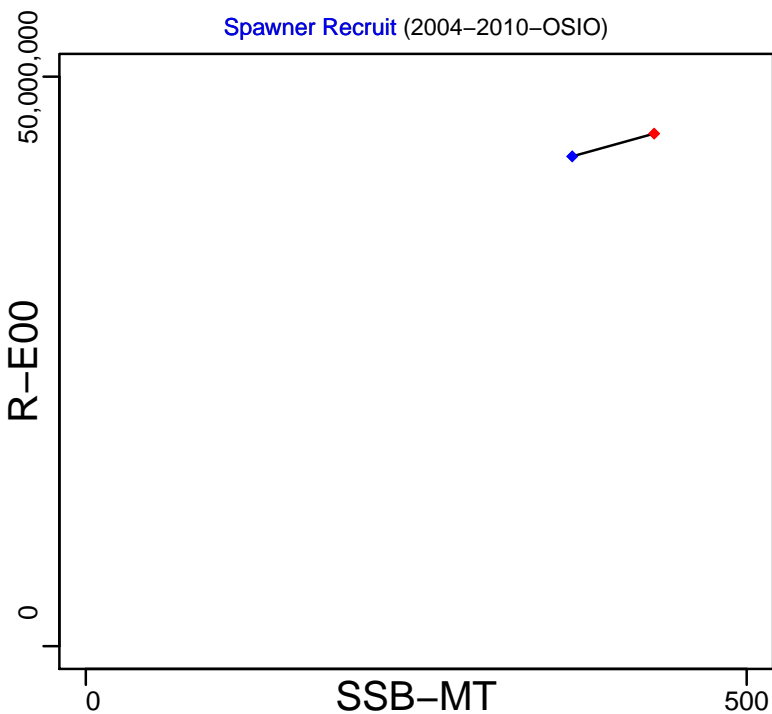
Kobe MSY*



Kobe MGT*



Spawner Recruit (2004–2010–OSIO)



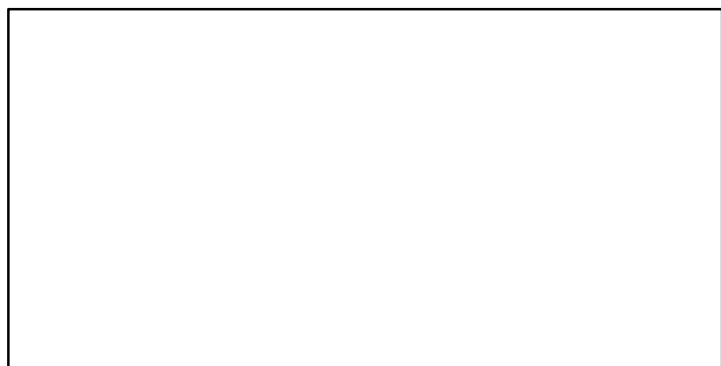
Production*



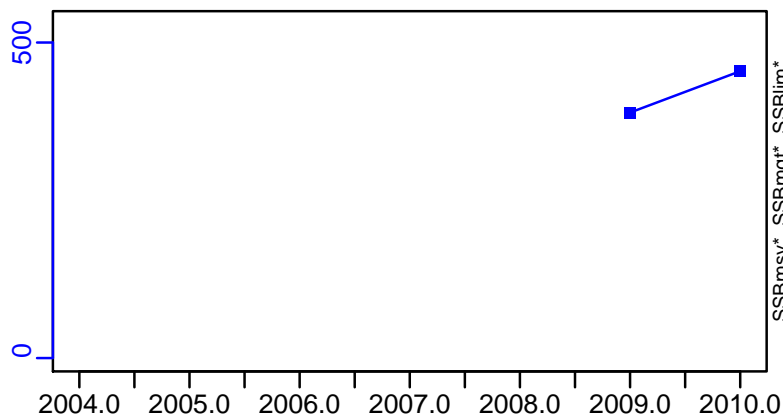
◆ Start Year ◆ End Year * No Data

Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

TB*



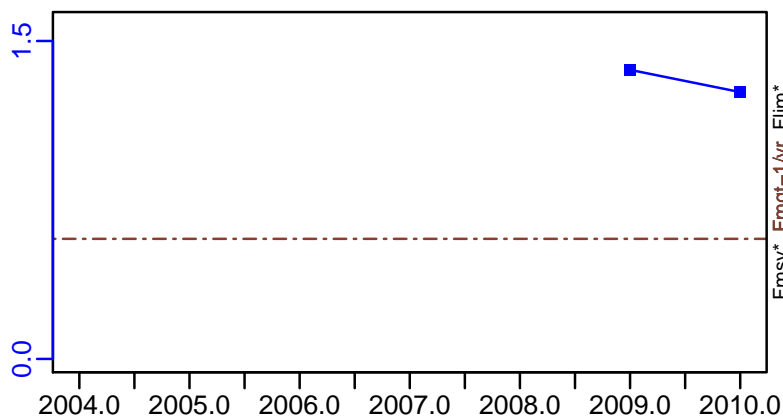
SSB-MT (2004–2010–OSIO)



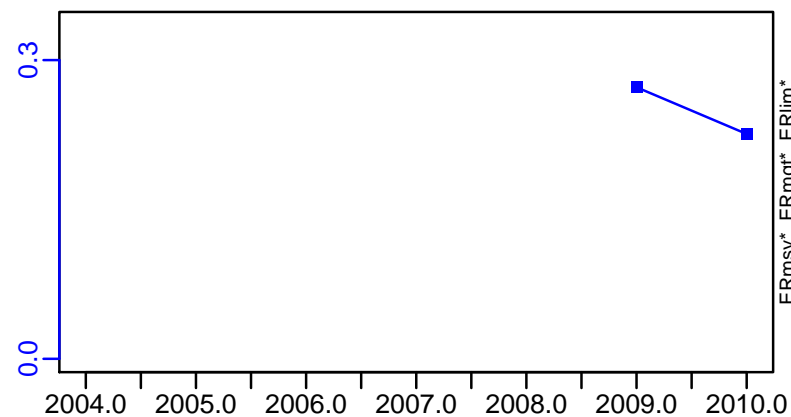
TN *



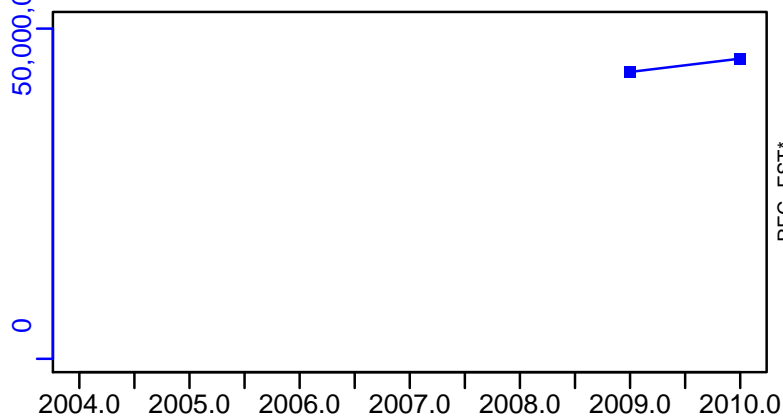
F-1/yr (2004–2010–OSIO)



ER-calc-ratio (2004–2010–OSIO)

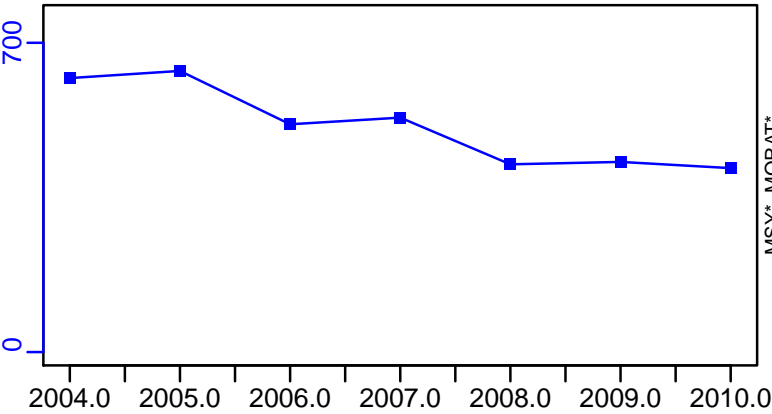


R-E00 (2004–2010–OSIO)



Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

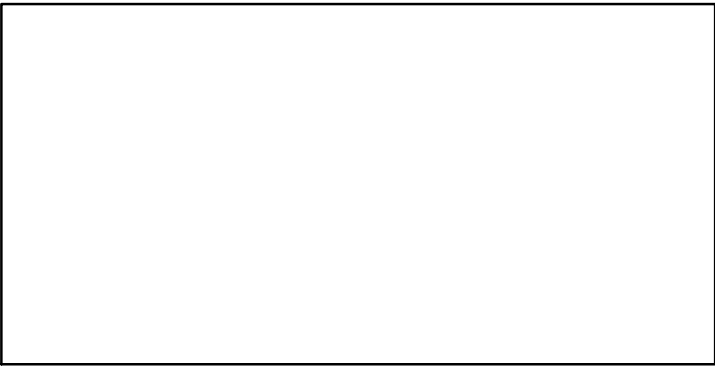
TC-MT, TL*, RecC* (2004–2010–OSIO)



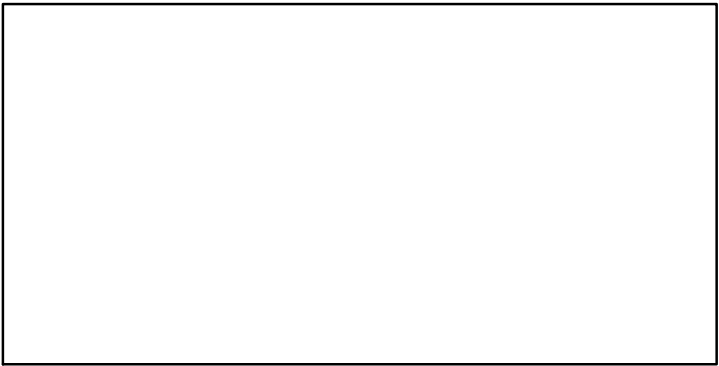
TAC*, Cpair*, Cadv*



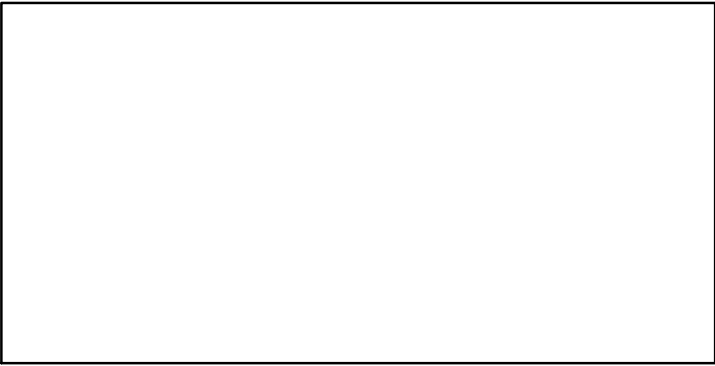
survB*



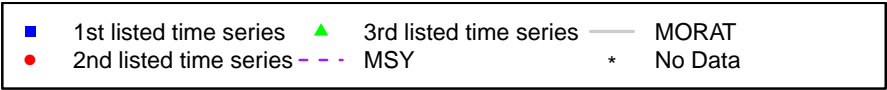
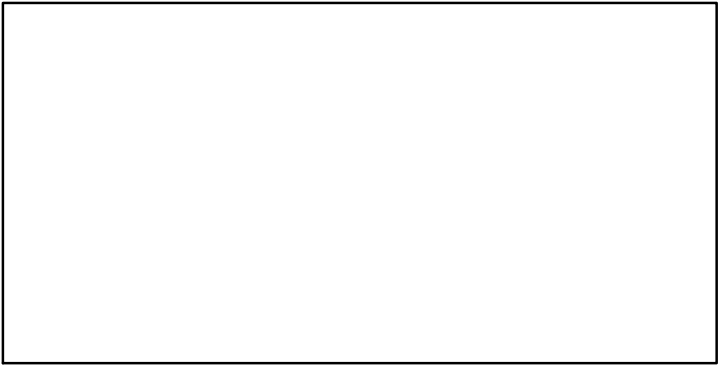
CPUE*



EFFORT*



CdivMSY*



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

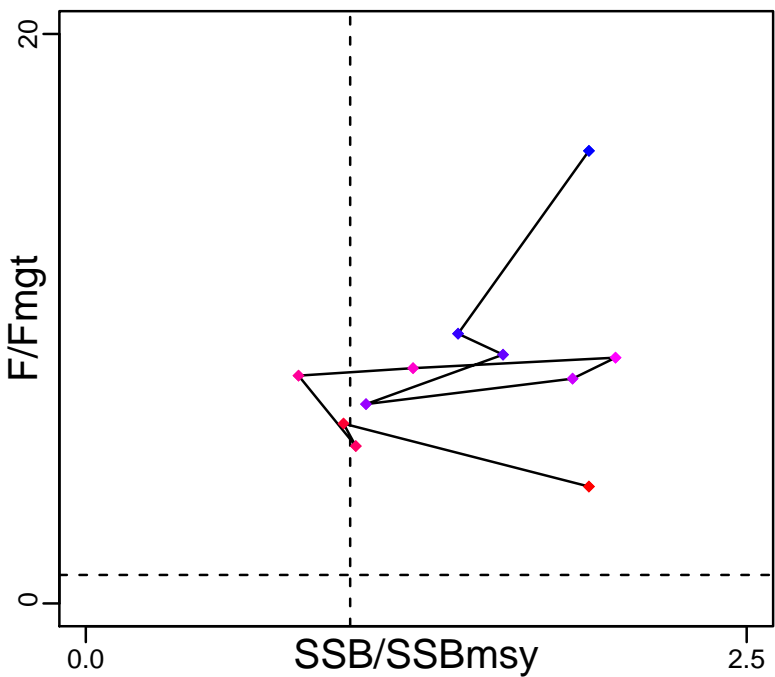
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus surmuletus |
| Current Assess ID | STECF-SMULLMEDGSA15-16-2002-2012-OSIO |
| Area | Malta Island and South of Sicily (GSA 15, 16) |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2012 | 1293 |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2012 | 0.645 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.19 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2012 | 2165 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

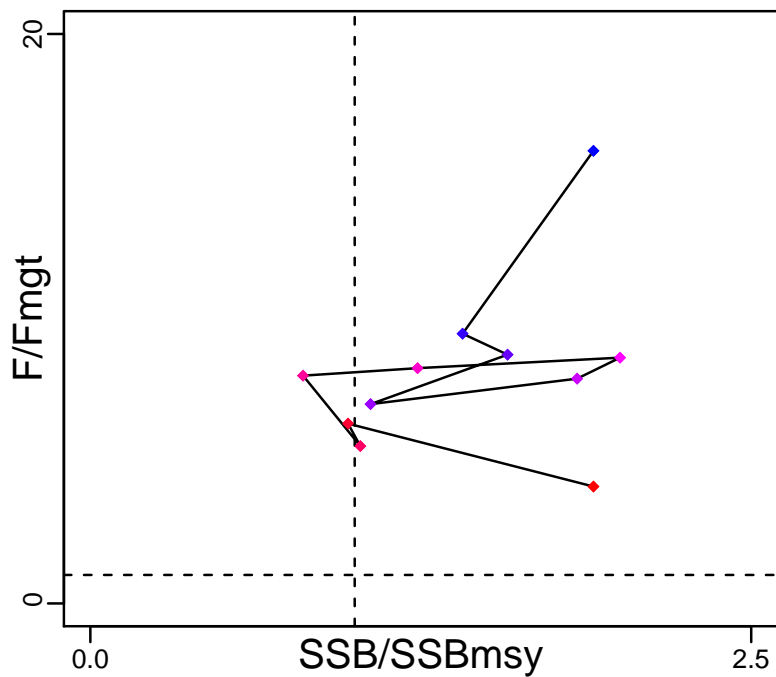
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 2460 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 4.2×10^7 | - | - |
| F | F-1/yr | 2012 | 0.78 | - | - |
| ER | ER-calc-ratio | 2012 | 0.118 | - | - |
| TC | TC-MT | 2012 | 753 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2012 | 1.903 | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2012 | 0.183 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 4.105 | | |
| ER/ERmgt | - | - | - | | |

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

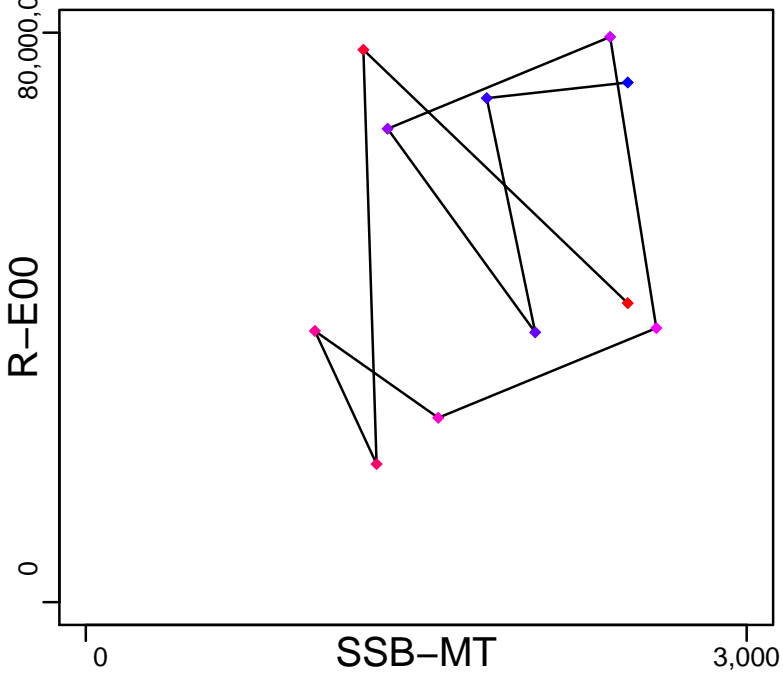
Kobe MSYpref (2002-2012-OSIO)



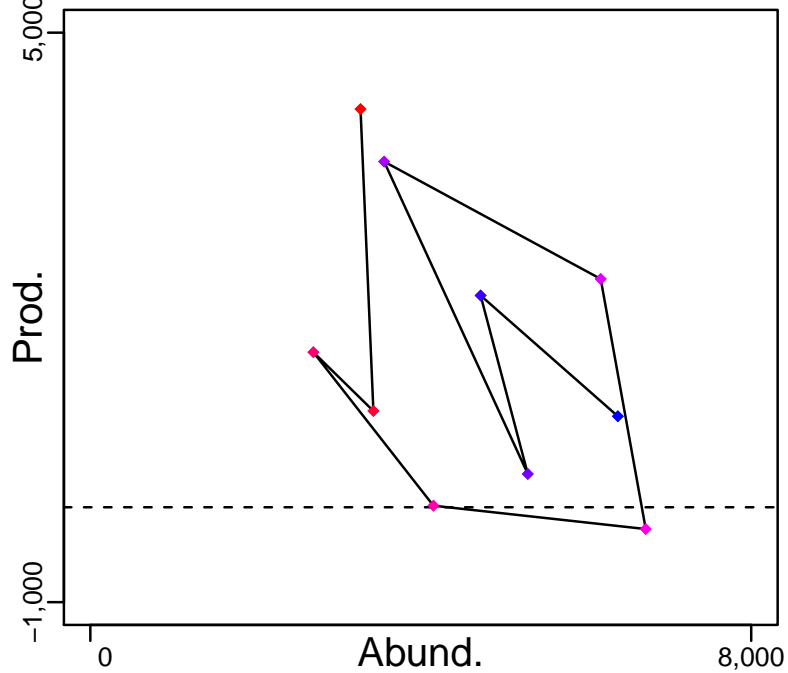
Kobe MGTpref (2002-2012-OSIO)



Spawner Recruit (2002-2012-OSIO)



Production (2002-2012-OSIO)



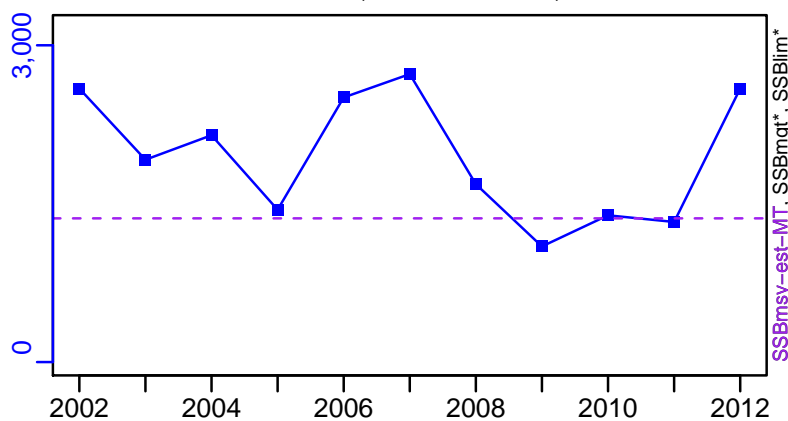
◆ Start Year ◆ End Year * No Data

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

TB*



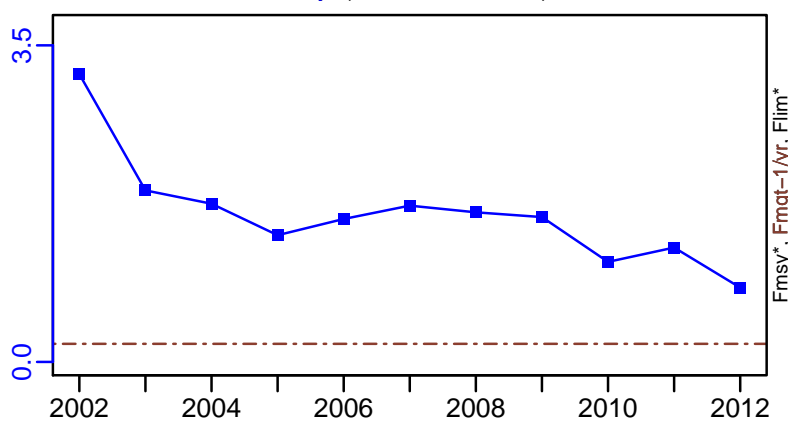
SSB-MT (2002-2012-OSIO)



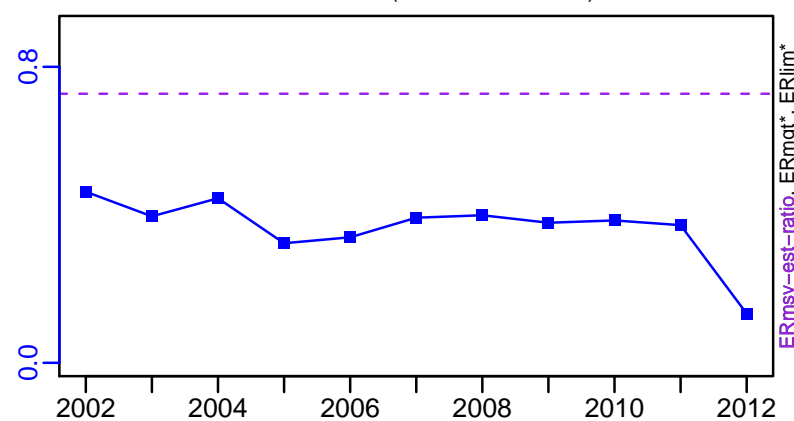
TN *



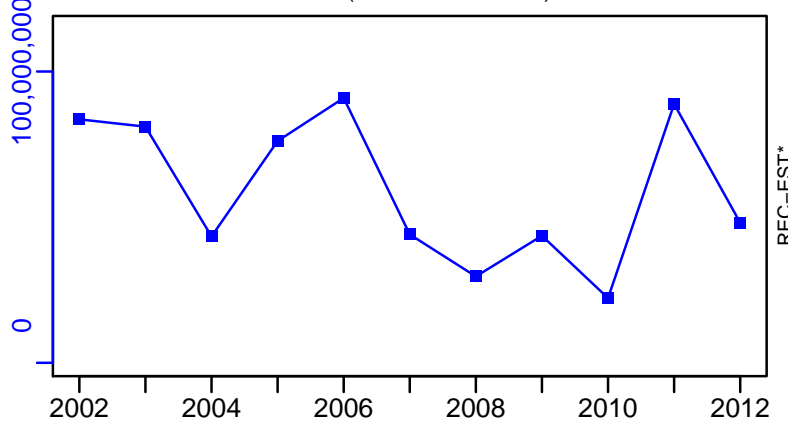
F-1/yr (2002-2012-OSIO)



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

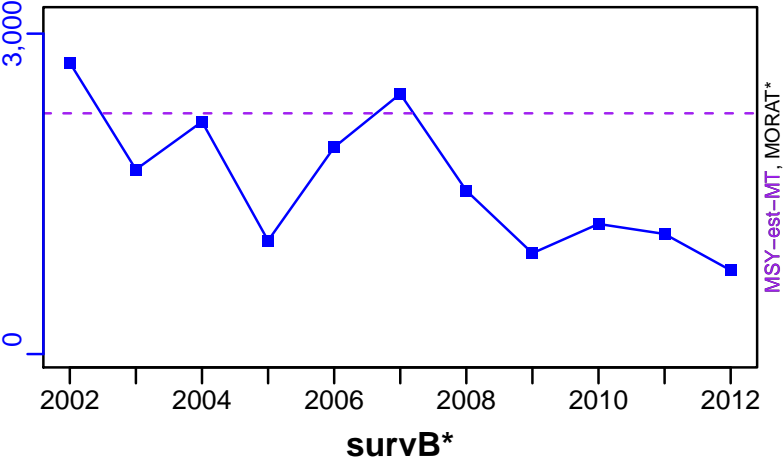


R-E00 (2002-2012-OSIO)



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

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



TAC*, Cpair*, Cadv*



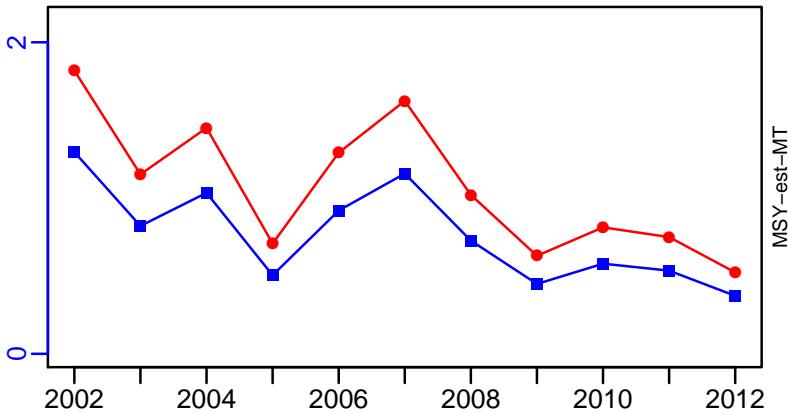
CPUE*



EFFORT*



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



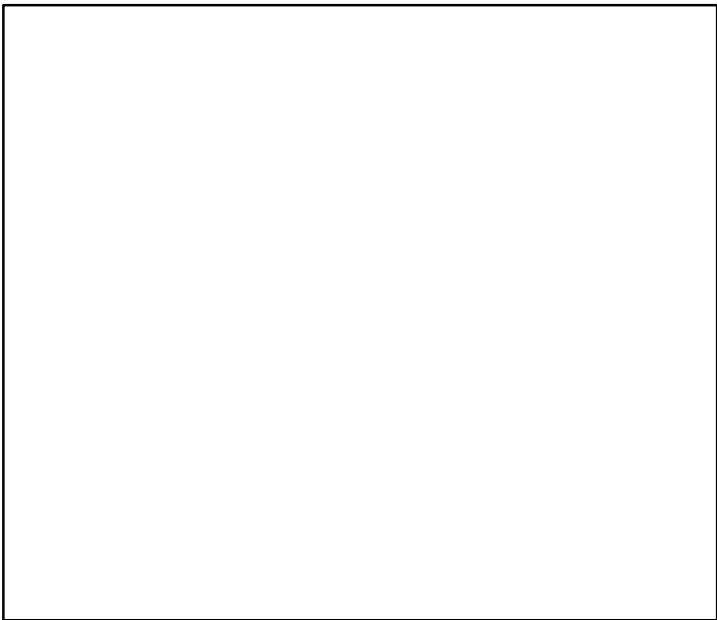
Surmullet Balearic Island [SMULLMEDGSA5]

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

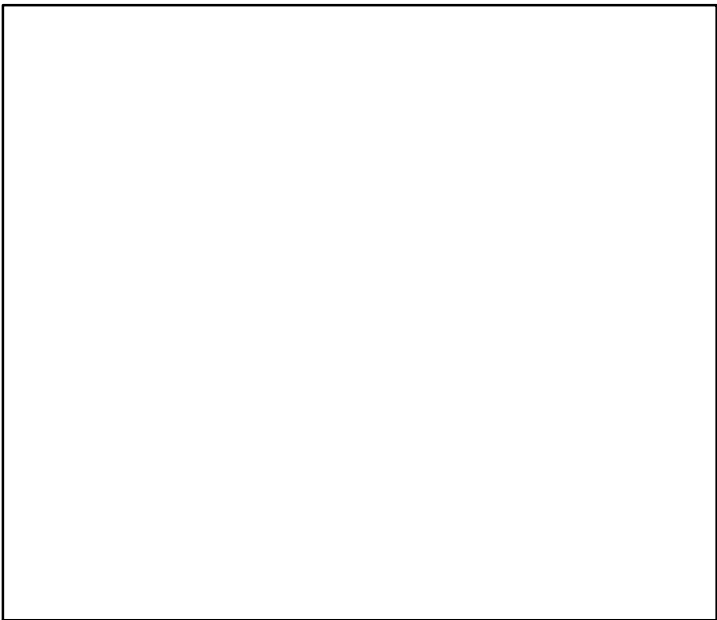
| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2012 | 0.181 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2012 | 116 | - | 2+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2012 | 2,240,000 | - | - |
| F | F-1/yr | 2012 | 0.477 | - | - |
| ER | ER-calc-ratio | 2012 | 0.226 | - | - |
| TC | TC-MT | 2012 | 67 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2012 | 2.635 | | |
| ER/ERmgt | - | - | - | | |

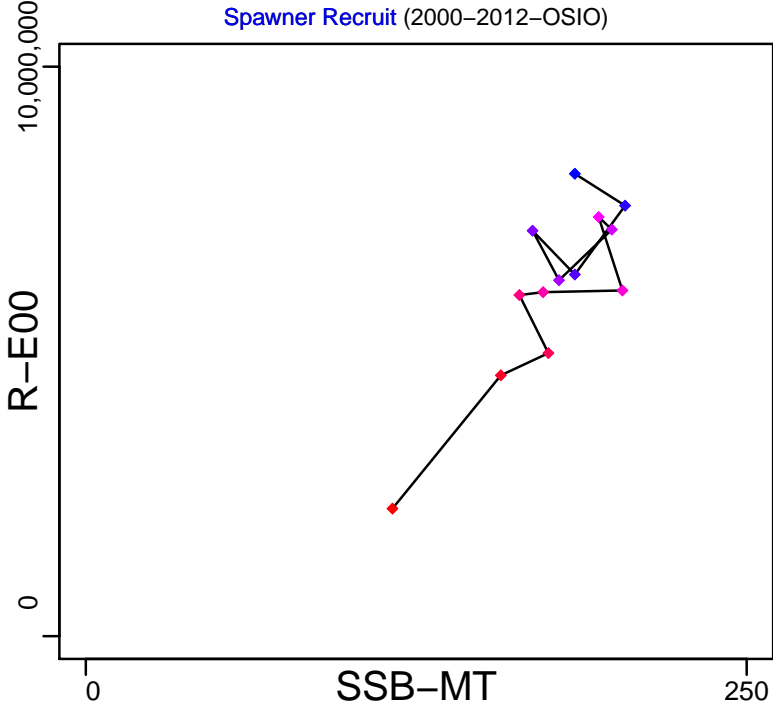
Kobe MSY*



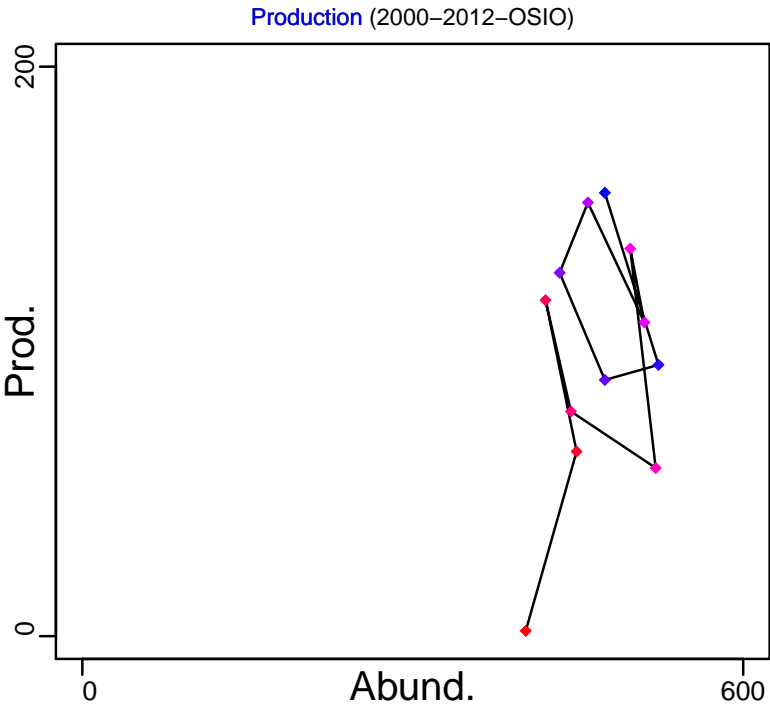
Kobe MGT*



Spawner Recruit (2000–2012–OSIO)



Production (2000–2012–OSIO)



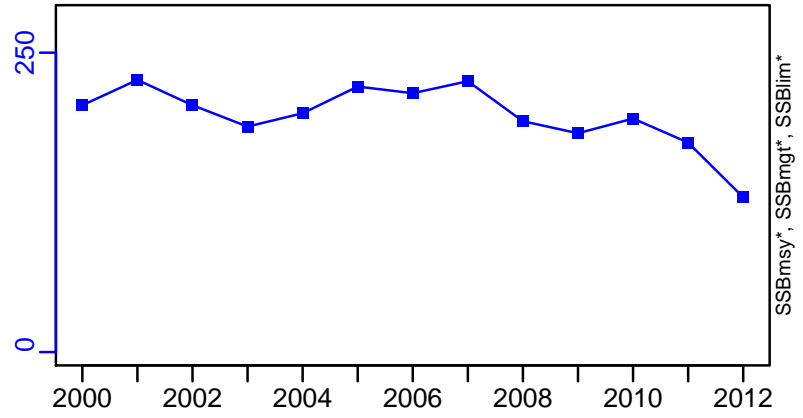
◆ Start Year ◆ End Year * No Data

Surmullet Balearic Island [SMULLMEDGSA5]

TB*



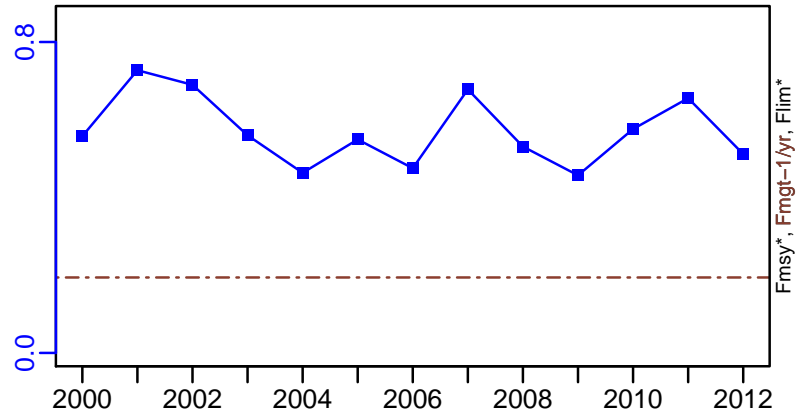
SSB-MT (2000–2012–OSIO)



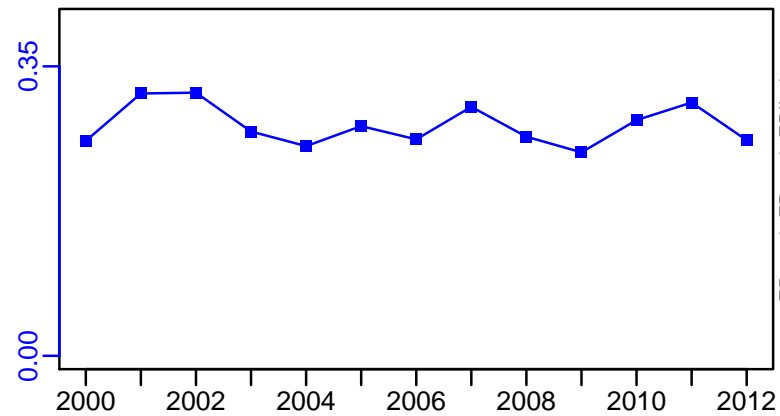
TN *



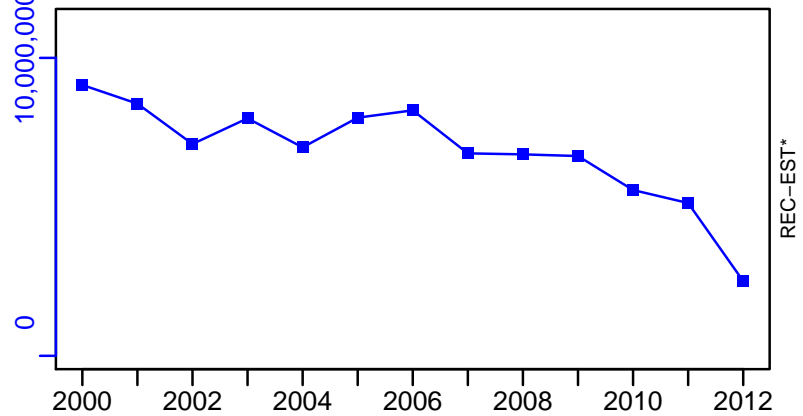
F-1/yr (2000–2012–OSIO)



ER-calc-ratio (2000–2012–OSIO)

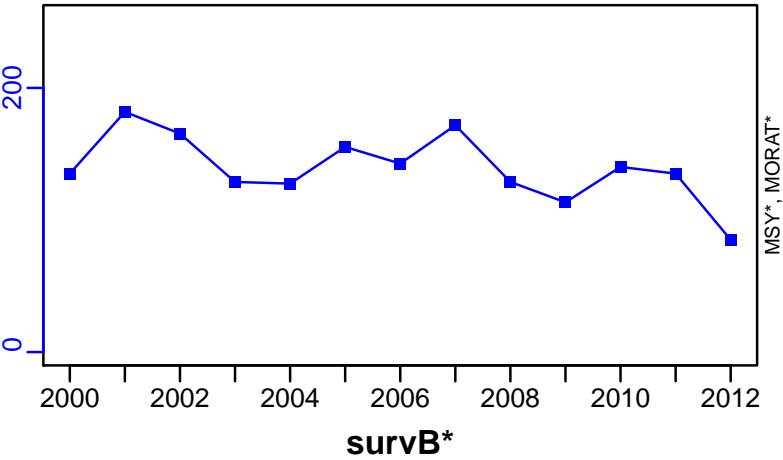


R-E00 (2000–2012–OSIO)



Surmullet Balearic Island [SMULLMEDGSA5]

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



TAC*, Cpair*, Cadv*



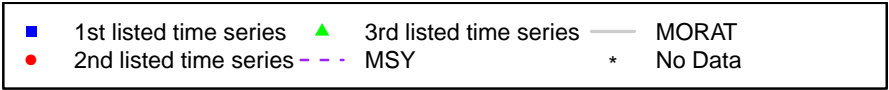
CPUE*



EFFORT*



CdivMSY*



Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

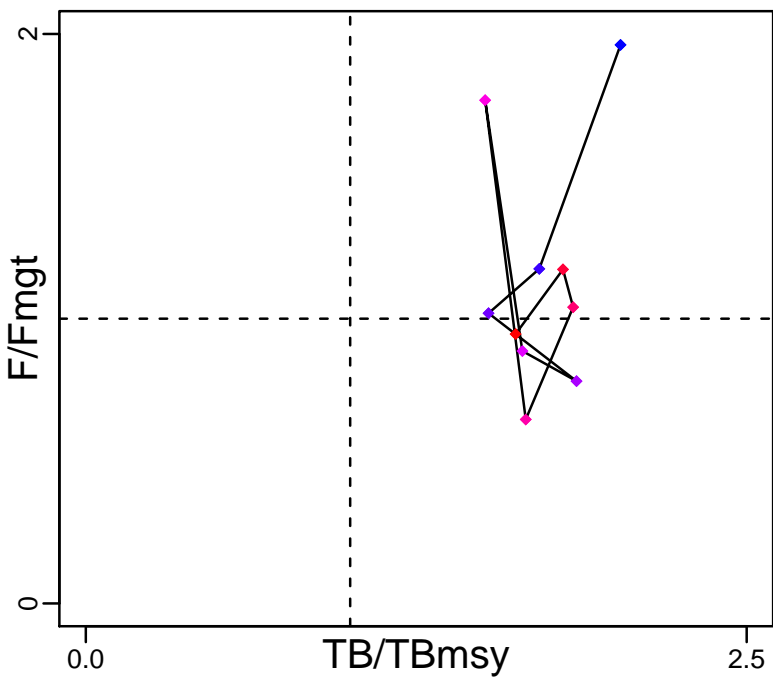
| Metadata | |
|-----------------------------|---|
| Scientific Name | Mullus surmuletus |
| Current Assess ID | STECF-SMULLMEDGSA9-2006-2015-OSIO |
| Area | Ligurian and North Tyrrhenian Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
|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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-est-MT | 2015 | 781 |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | ERmsy-est-ratio | 2015 | 0.564 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.52 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2015 | 440 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

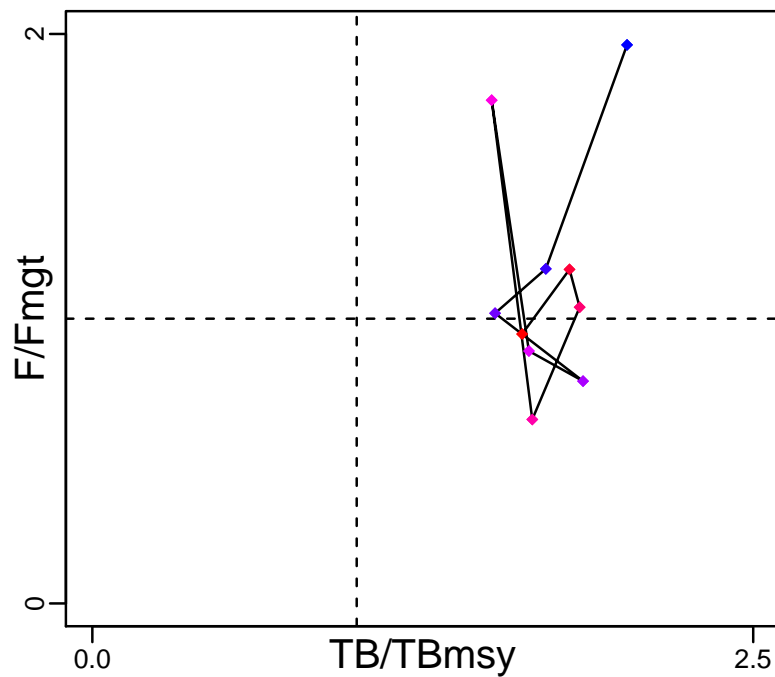
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2015 | 1270 | - | - |
| SSB | SSB-MT | 2015 | 463 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 16,600,000 | - | - |
| F | F-1/yr | 2015 | 0.492 | - | - |
| ER | ER-calc-ratio | 2015 | 0.205 | - | - |
| TC | TC-MT | 2015 | 260 | | |
| TL | TL-MT | 2015 | 260 | | |
| TB/TBmsy | TB-MT/TBmsy-est-MT | 2015 | 1.626 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2015 | 0.363 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 0.946 | | |
| ER/ERmgt | - | - | - | | |

Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

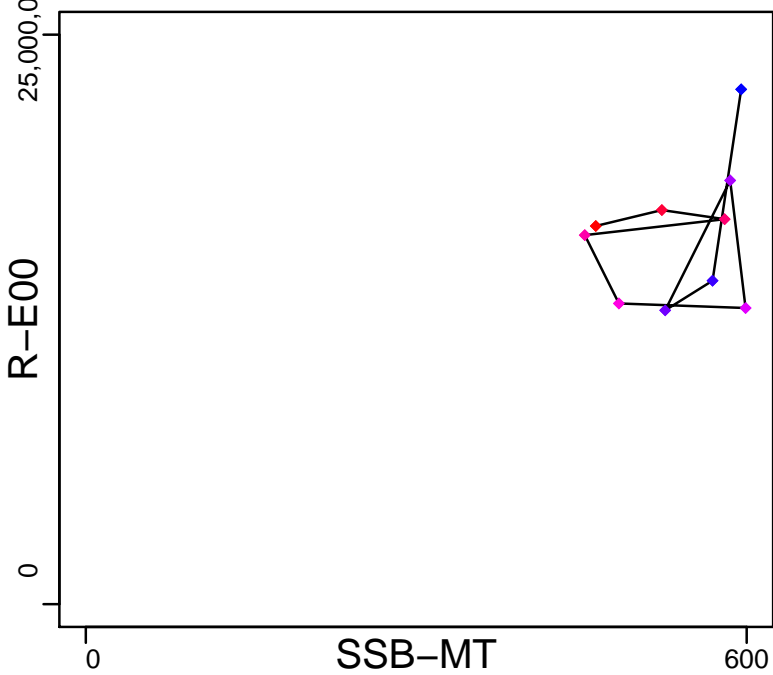
Kobe MSYpref (2006–2015–OSIO)



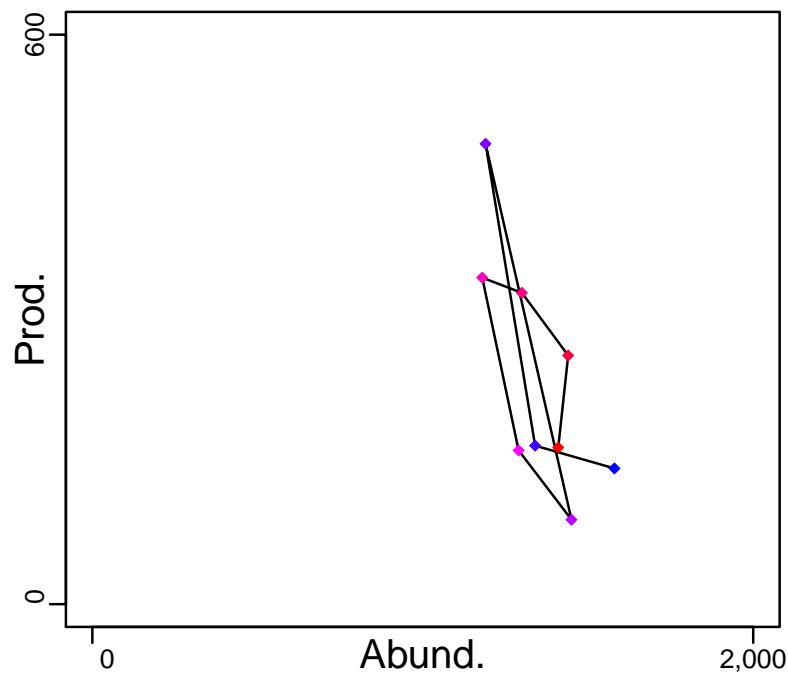
Kobe MGTpref (2006–2015–OSIO)



Spawner Recruit (2006–2015–OSIO)



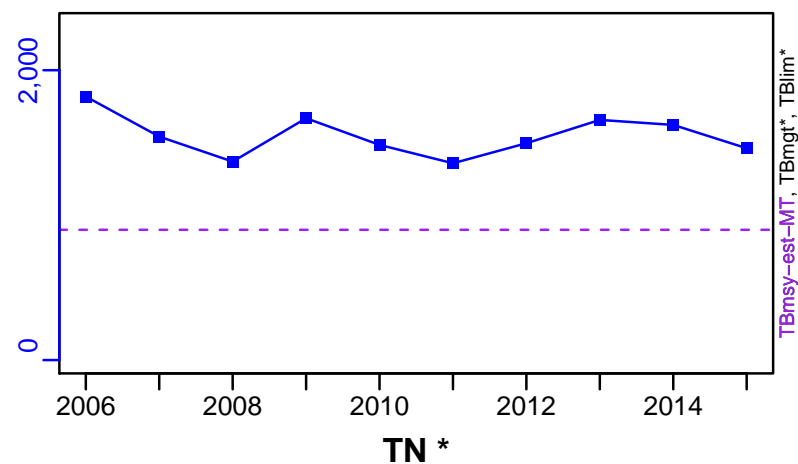
Production (2006–2015–OSIO)



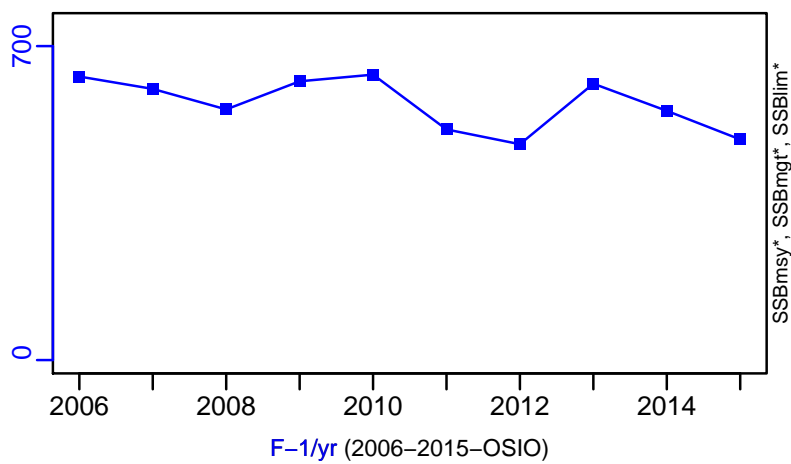
◆ Start Year ◆ End Year * No Data

Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TB-MT (2006–2015–OSIO)



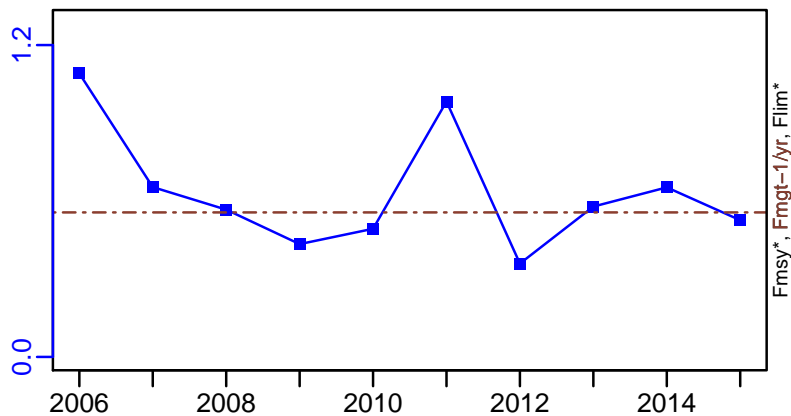
SSB-MT (2006–2015–OSIO)



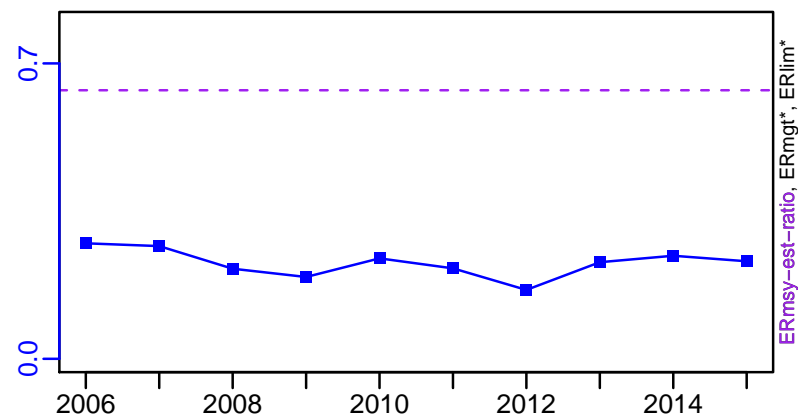
TN *



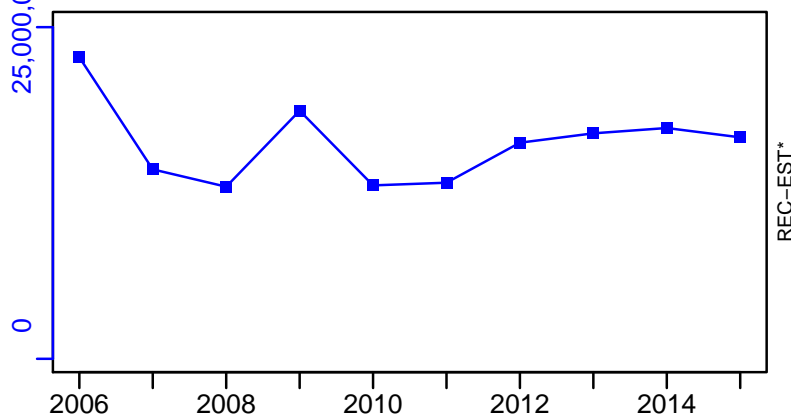
F-1/yr (2006–2015–OSIO)



ER-calc-ratio (2006–2015–OSIO)

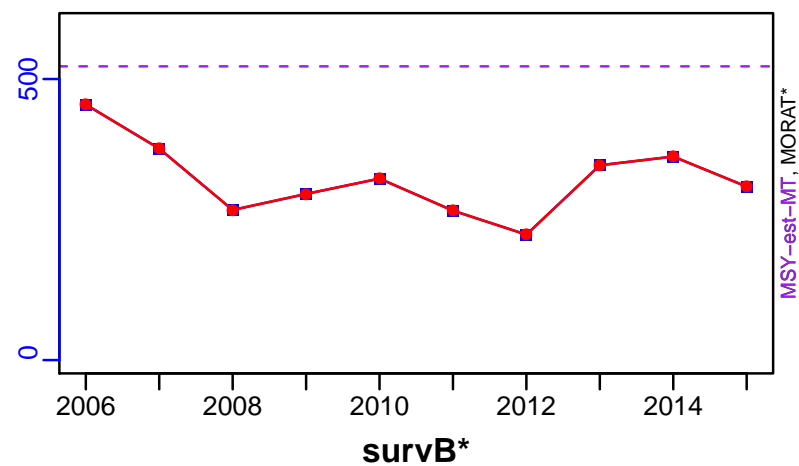


R-E00 (2006–2015–OSIO)



Surmullet Ligurian and North Tyrrhenian Sea [SMULLMEDGSA9]

TC-MT, TL-MT, RecC* (2006–2015–OSIO)



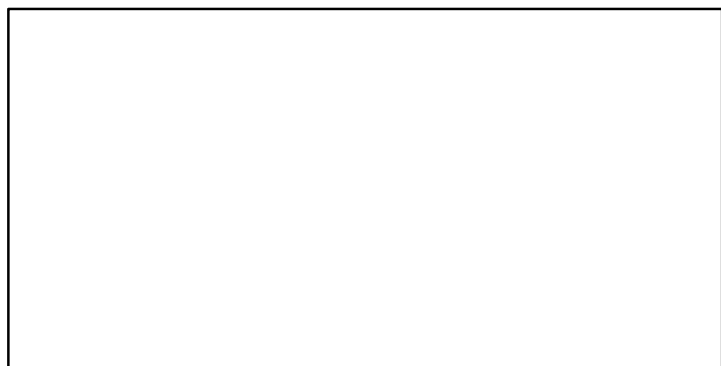
TAC*, Cpair*, Cadv*



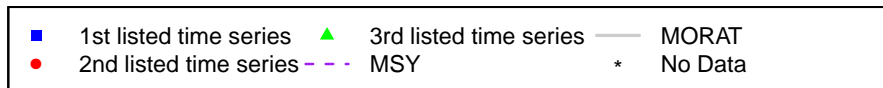
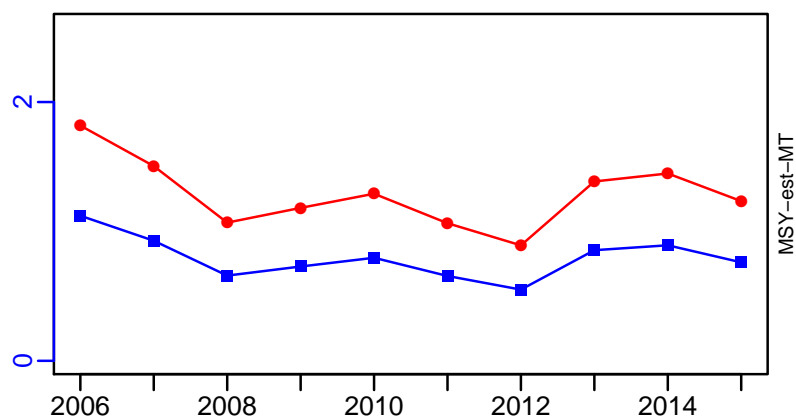
CPUE*



EFFORT*



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



Common sole Northern Adriatic Sea [SOLMEDGSA17]

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

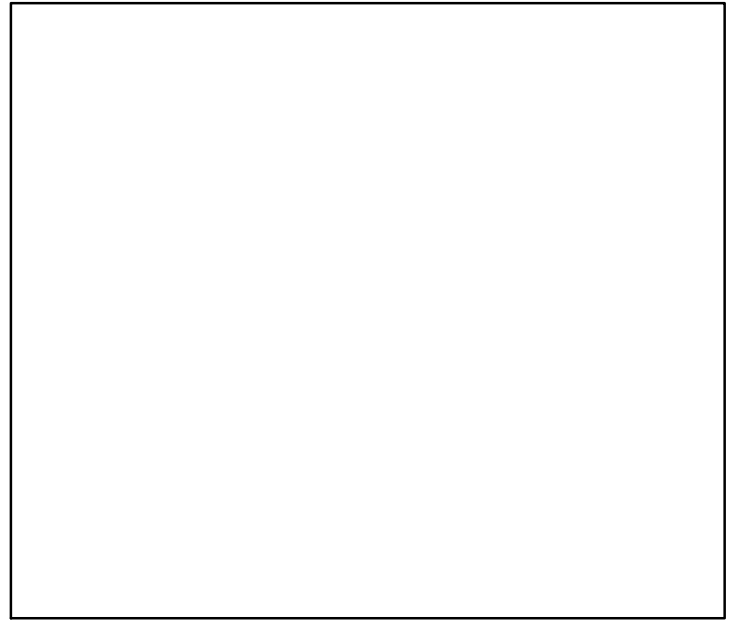
| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 1450 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 28,200,000 | - | - |
| F | F-1/yr | 2014 | 0.634 | - | - |
| ER | ER-calc-ratio | 2014 | 0.612 | - | - |
| 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 | - | - | - | | |

Common sole Northern Adriatic Sea [SOLMEDGSA17]

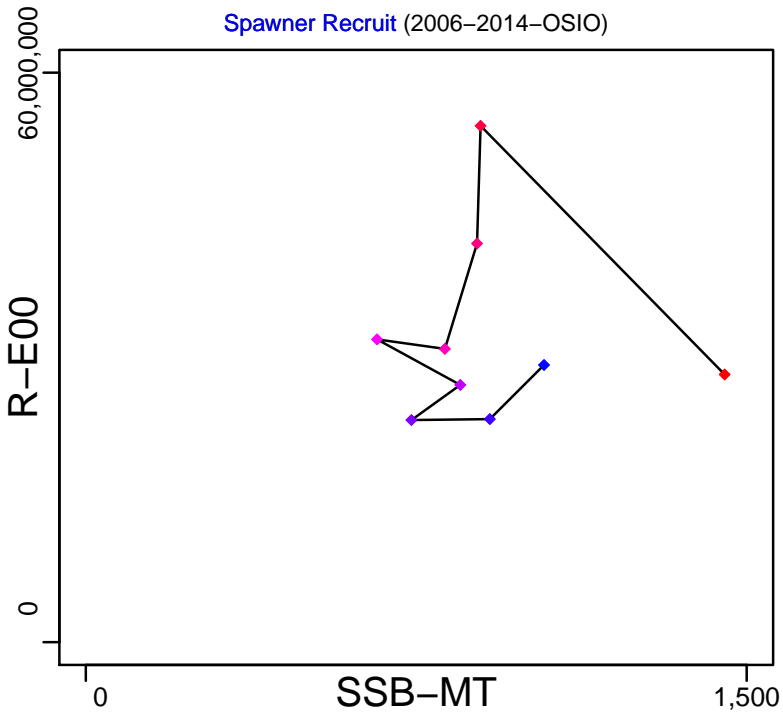
Kobe MSY*



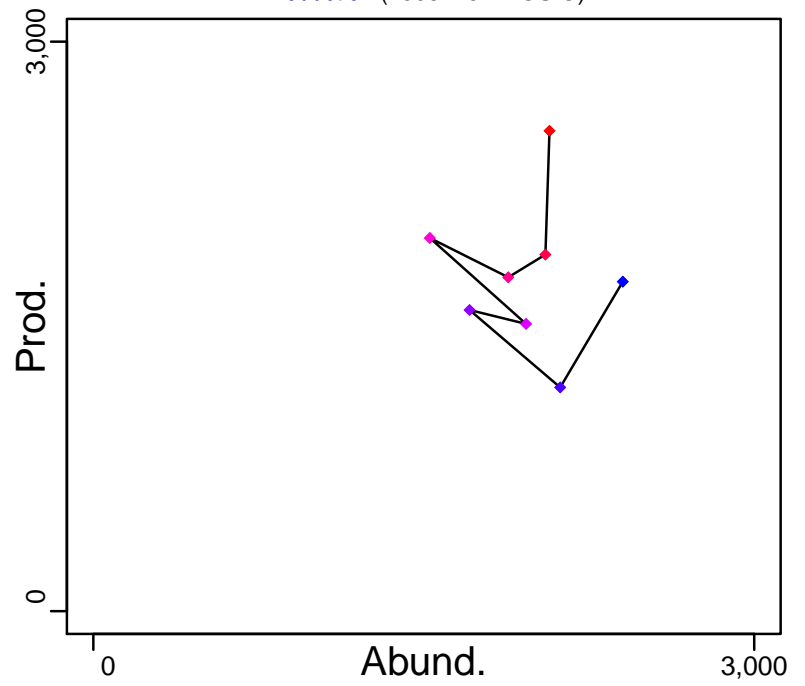
Kobe MGT*



Spawner Recruit (2006–2014–OSIO)



Production (2006–2014–OSIO)



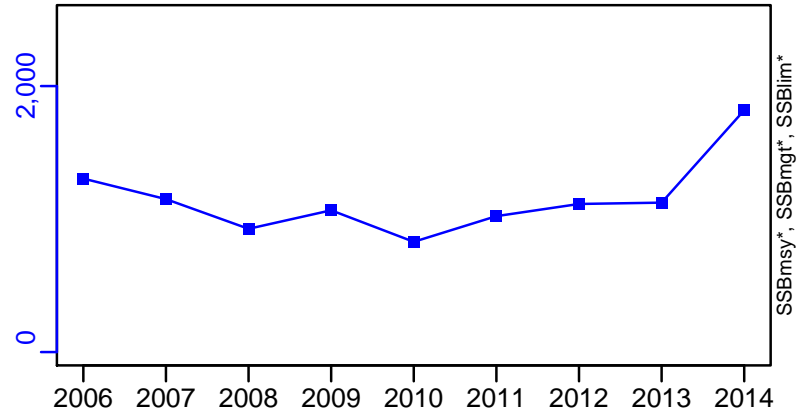
◆ Start Year ◆ End Year * No Data

Common sole Northern Adriatic Sea [SOLMEDGSA17]

TB*



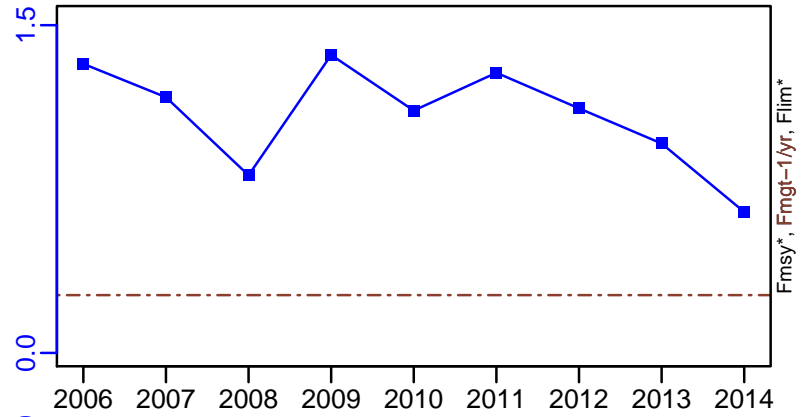
SSB-MT (2006–2014–OSIO)



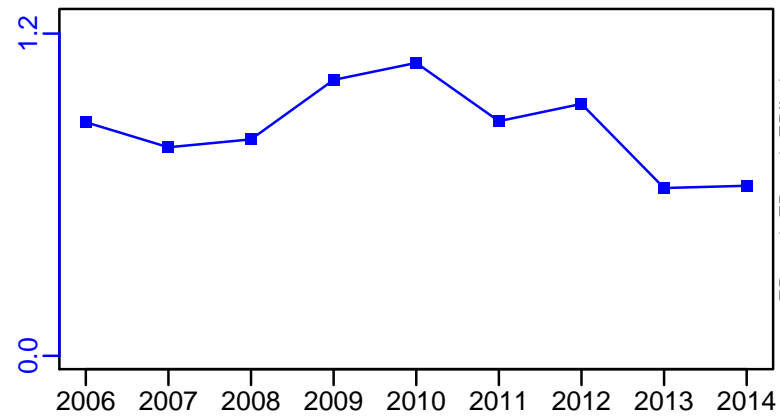
TN *



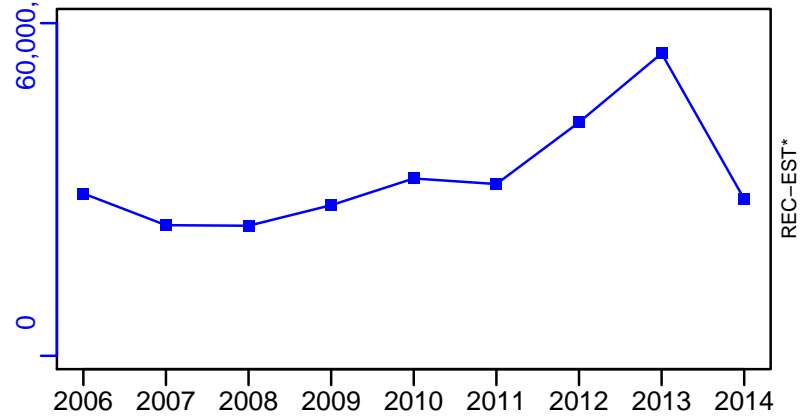
F-1/yr (2006–2014–OSIO)



ER-calc-ratio (2006–2014–OSIO)



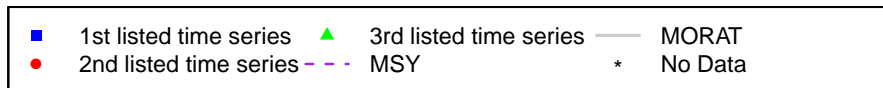
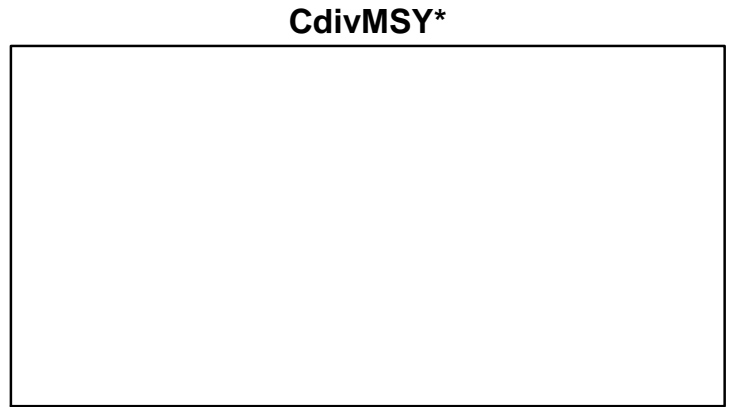
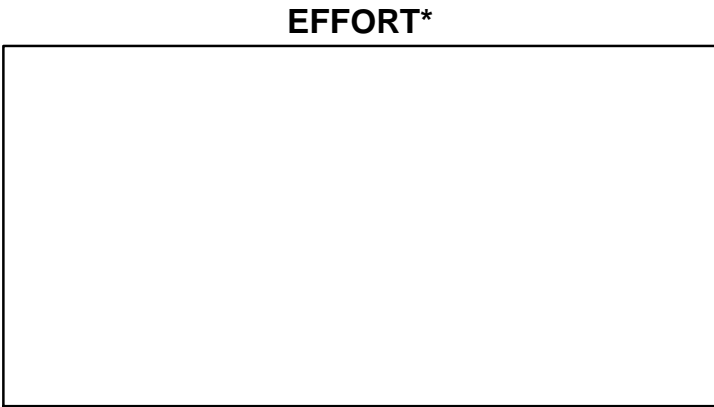
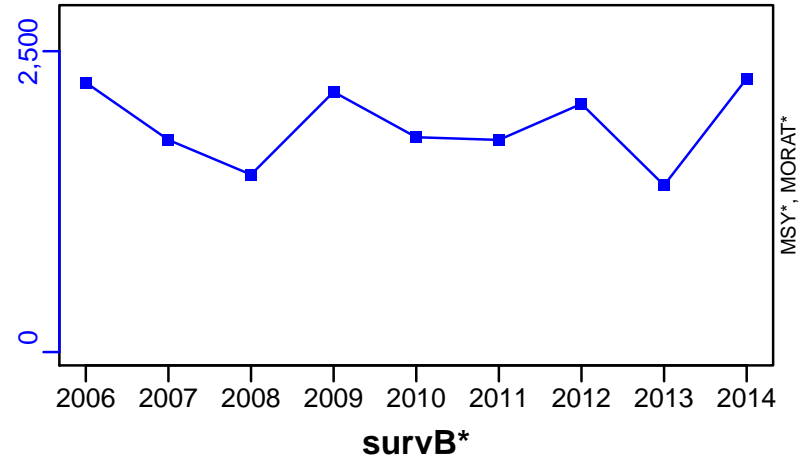
R-E00 (2006–2014–OSIO)



Common sole Northern Adriatic Sea [SOLMEDGSA17]

TC-MT, TL*, RecC* (2006–2014–OSIO)

TAC*, Cpair*, Cadv*

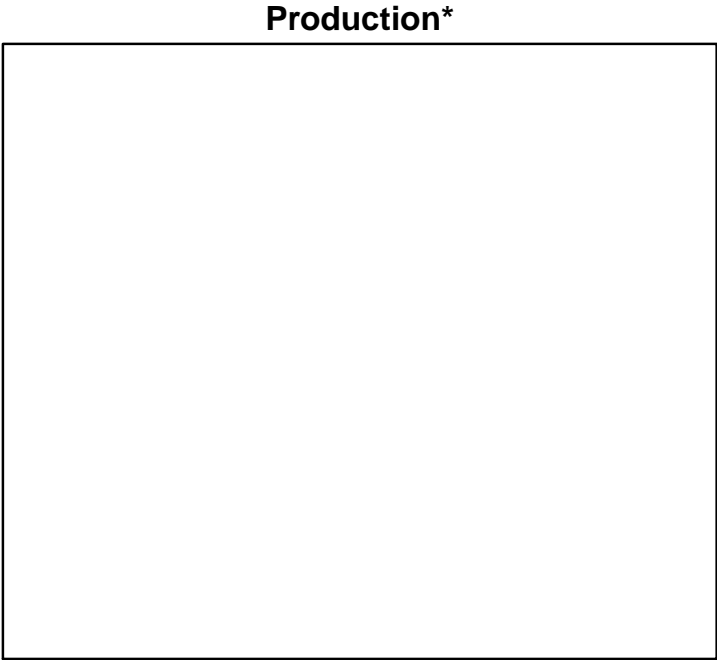
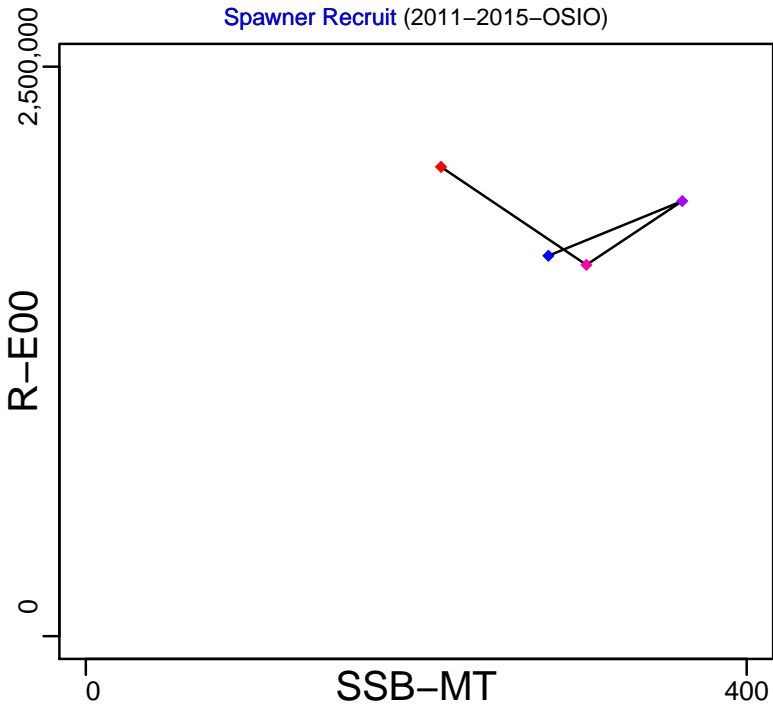


Common sole Gulf of Lions [SOLMEDGSA7]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Solea solea |
| Current Assess ID | STECF-SOLMEDGSA7-2011-2015-OSIO |
| Area | Gulf of Lions |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2015 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.085 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2015 | 215 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 2,060,000 | - | - |
| F | F-1/yr | 2015 | 0.63 | - | - |
| ER | ER-calc-ratio | 2015 | 0.433 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2015 | 184 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 7.412 | | |
| ER/ERmgt | - | - | - | | |



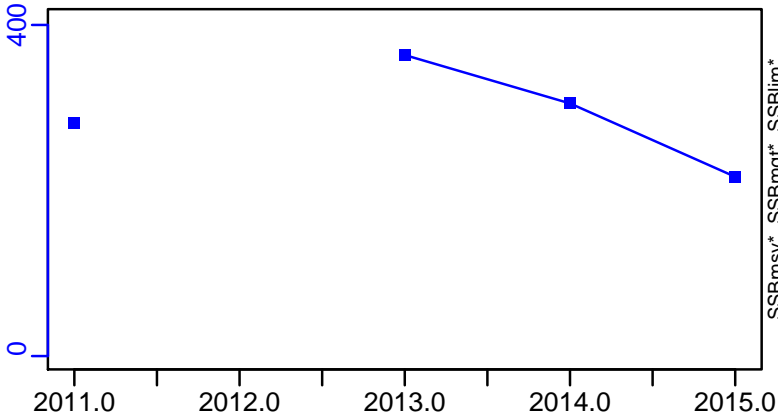
◆ Start Year ◆ End Year * No Data

Common sole Gulf of Lions [SOLMEDGSA7]

TB*



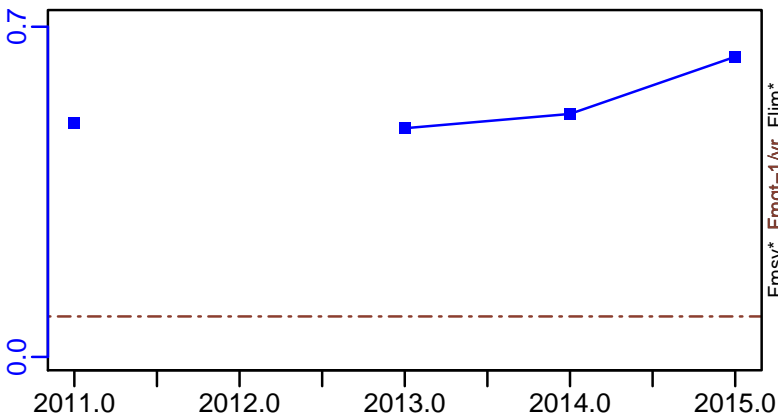
SSB-MT (2011–2015–OSIO)



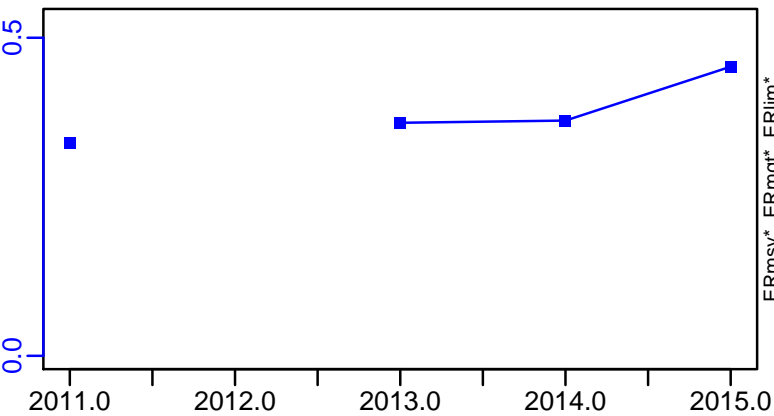
TN *



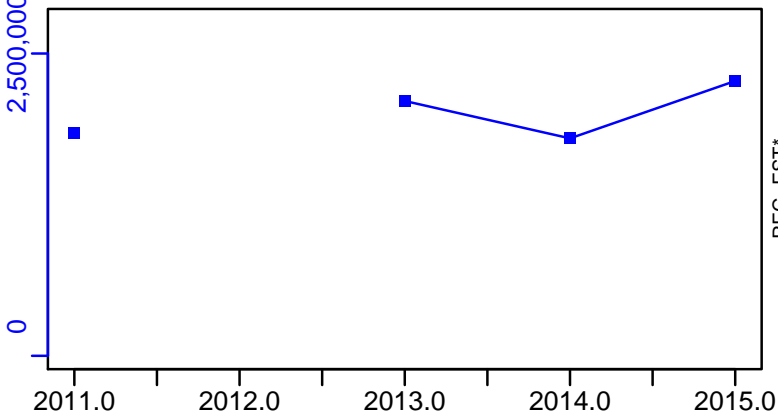
F-1/yr (2011–2015–OSIO)



ER-calc-ratio (2011–2015–OSIO)

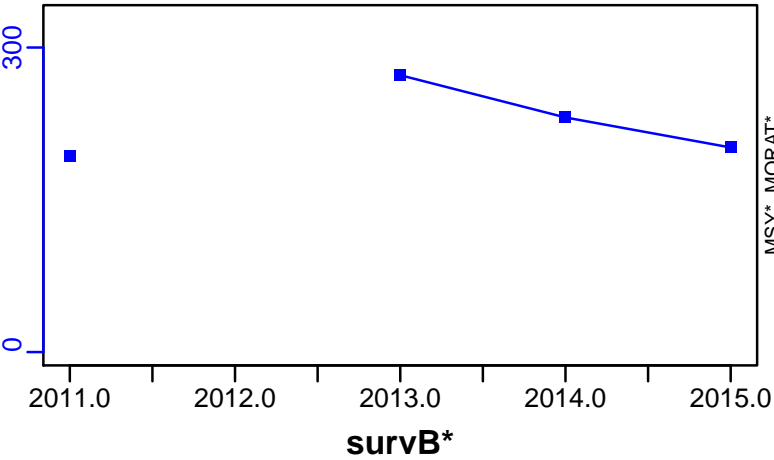


R-E00 (2011–2015–OSIO)



Common sole Gulf of Lions [SOLMEDGSA7]

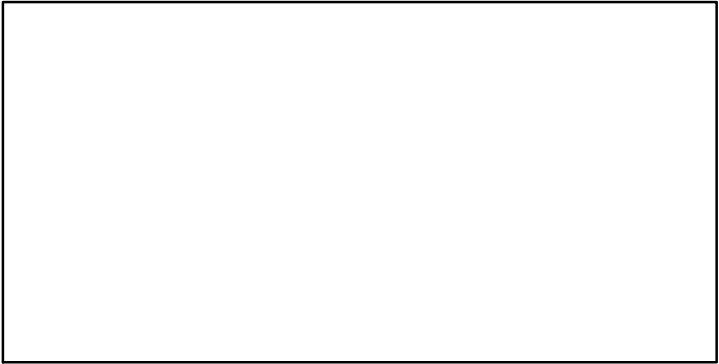
TL-MT, TC*, RecC* (2011-2015-OSIO)



TAC*, Cpair*, Cadv*



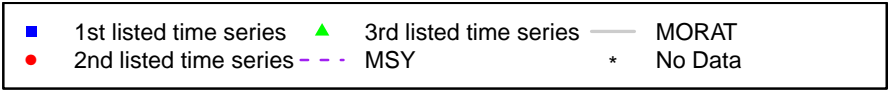
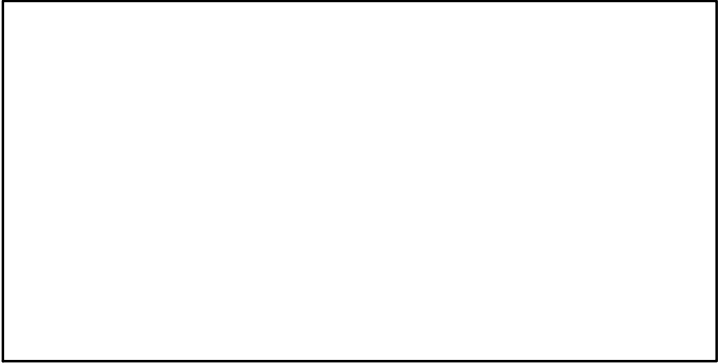
CPUE*



EFFORT*



CdivMSY*



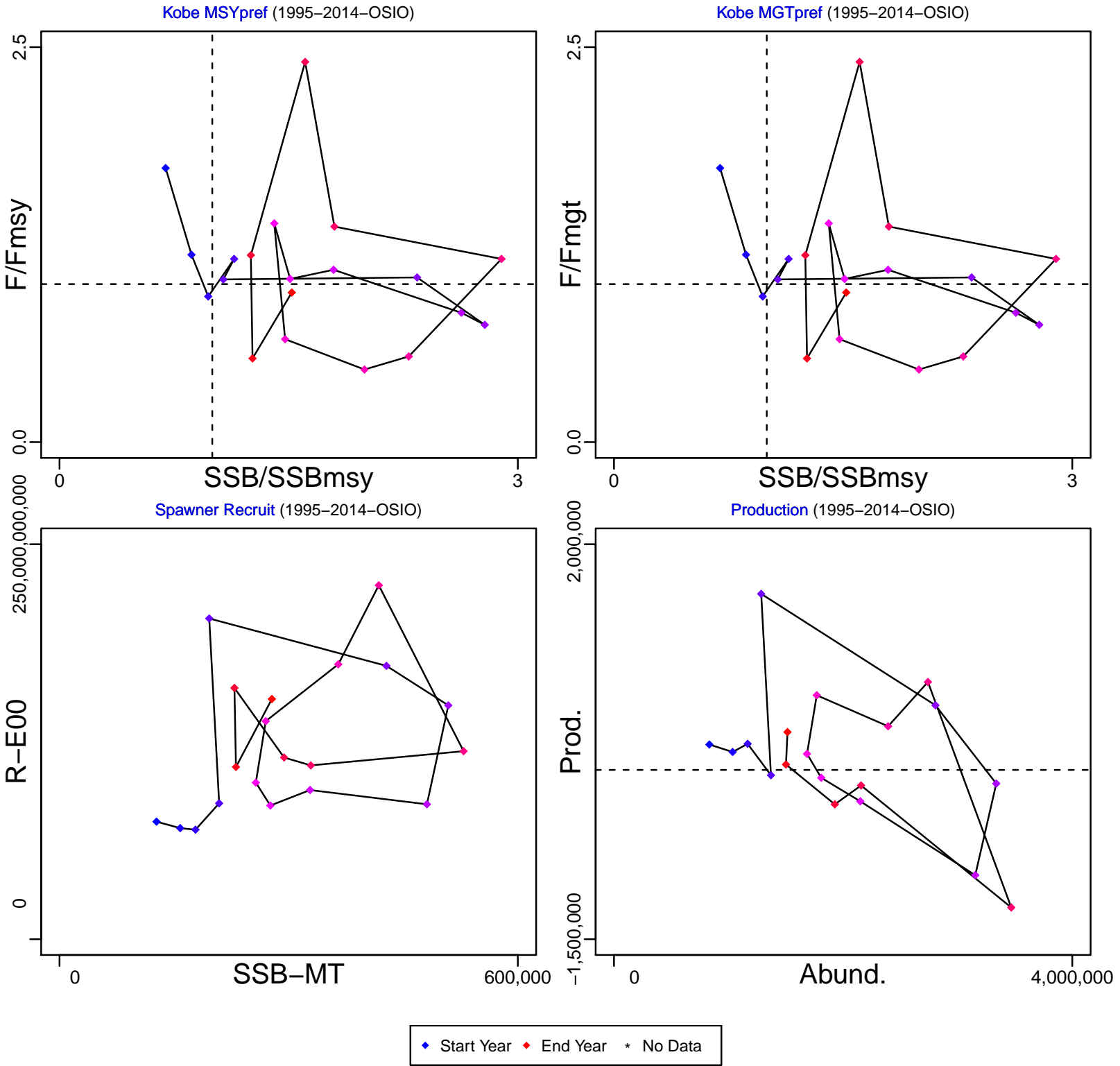
Sprat Black Sea [SPRBLKGSA29]

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

| Reference Points | | | |
|------------------|-----------------|-----------|---------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 182,836 |
| Fmsy | Fmsy-1/yr | 2014 | 0.64 |
| ERmsy | ERmsy-est-ratio | 2014 | 0.286 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.64 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 342,927 |
| M | M-1/yr | 2010 | 0.95 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | Flim-1/yr | 2010 | 0.64 |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|-------------------------------|-----------|-----------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 278,000 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 1.52×10^{11} | - | - |
| F | F-1/yr | 2014 | 0.606 | - | - |
| ER | ER-calc-ratio | 2014 | 0.032 | - | - |
| TC | TC-MT | 2014 | 58,400 | | |
| TL | TL-MT | 2010 | 91,700 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 1.52 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 0.947 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 0.112 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 0.947 | | |
| ER/ERmgt | - | - | - | | |

Sprat Black Sea [SPRBLKGSA29]

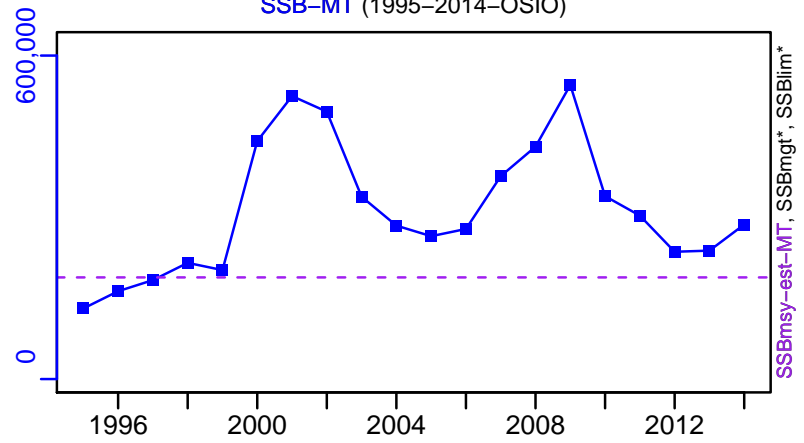


Sprat Black Sea [SPRBLKGSA29]

TB*



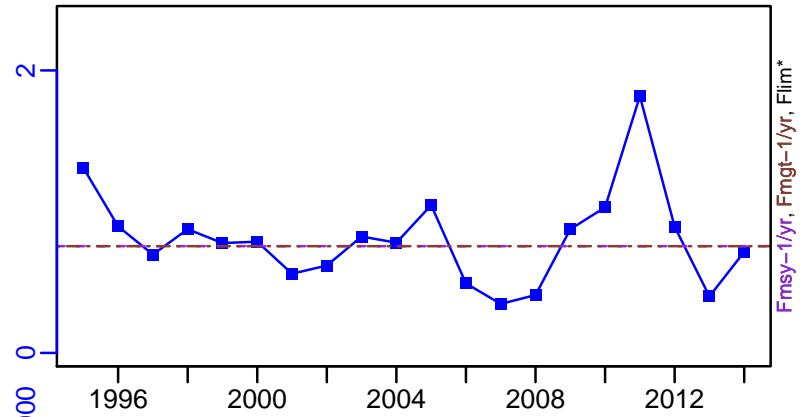
SSB-MT (1995–2014–OSIO)



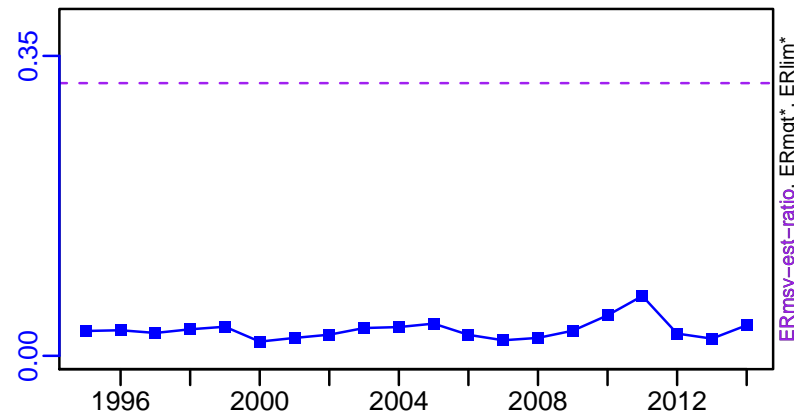
TN *



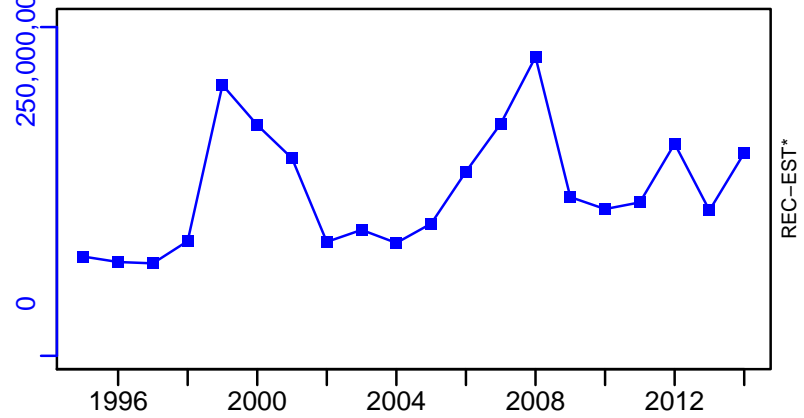
F-1/yr (1995–2014–OSIO)



ER-calc-ratio (1995–2014–OSIO)

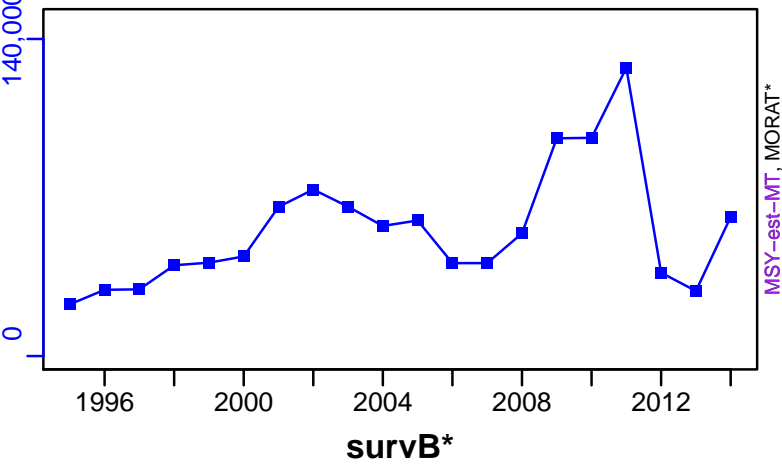


R-E00 (1995–2014–OSIO)



Sprat Black Sea [SPRBLKGSA29]

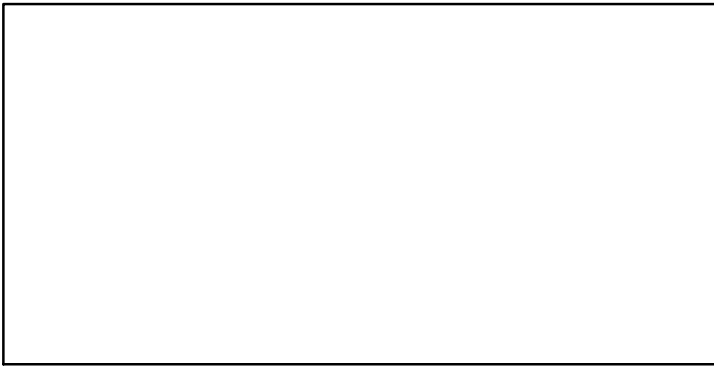
TC-MT, TL*, RecC* (1995–2014–OSIO)



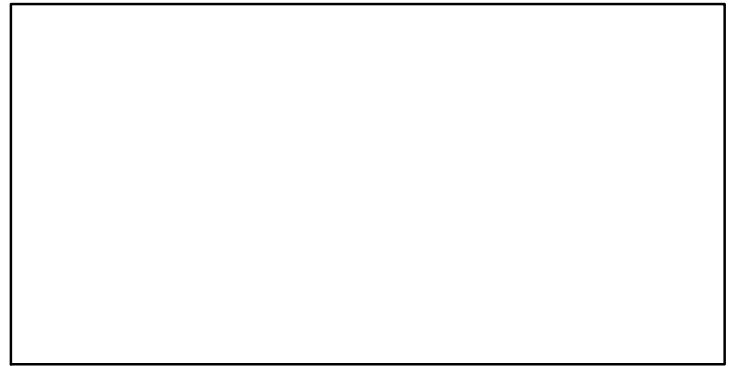
TAC*, Cpair*, Cadv*



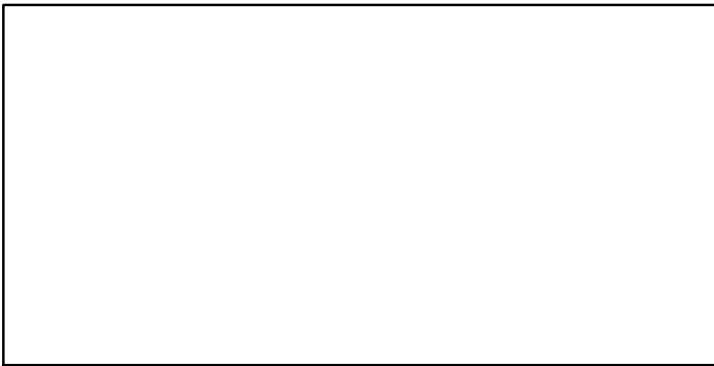
survB*



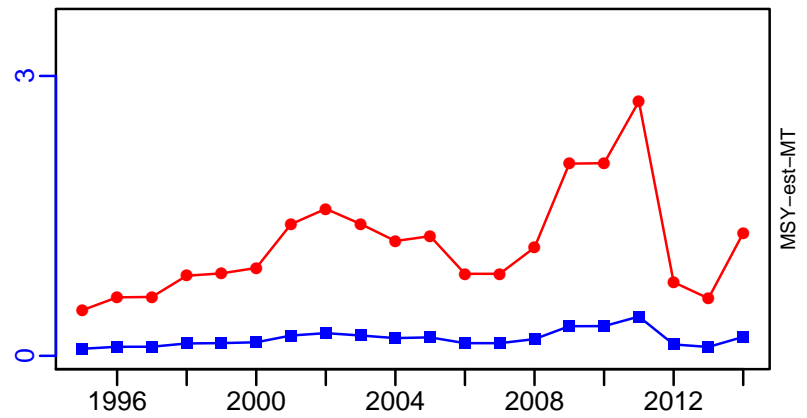
CPUE*



EFFORT*



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



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

Swordfish Mediterranean Sea [SWORDMED]

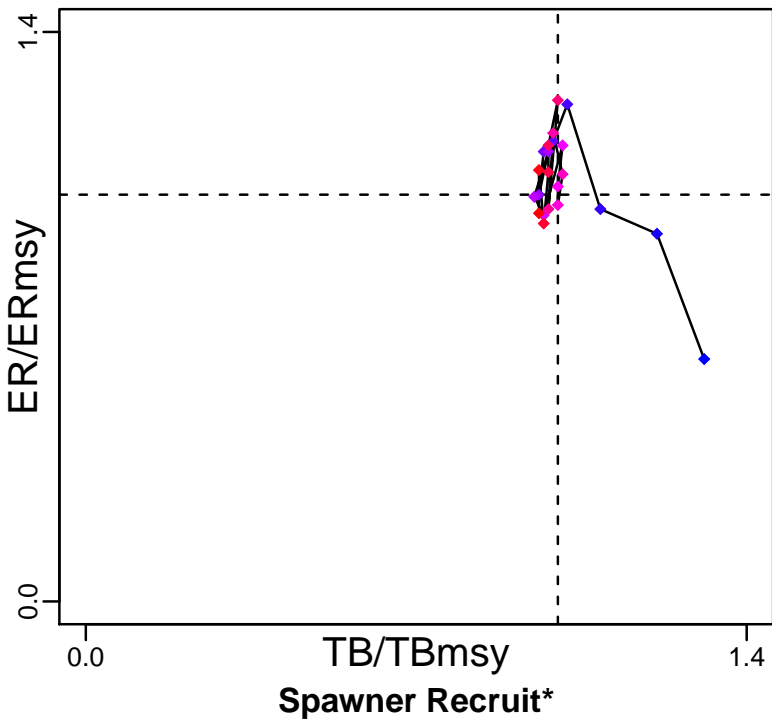
| Metadata | |
|-----------------------------|---|
| Scientific Name | Xiphias gladius |
| Current Assess ID | ICCAT-SWORDMED-1950-2009-CHING |
| Area | Mediterranean Sea |
| Management Authority | International Commission for the Conservation of Atlantic Tunas |
| Assessor | International Commission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

| Reference Points | | | |
|------------------|------------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | TBmsy-extr-MT | 2009 | 73,728 |
| SSBmsy | - | - | - |
| Fmsy | Fmsy-1/yr | 2009 | 0.26 |
| ERmsy | ERmsy-calc-ratio | 2009 | 0.198 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | - | - | - |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-MT | 2009 | 14,600 |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

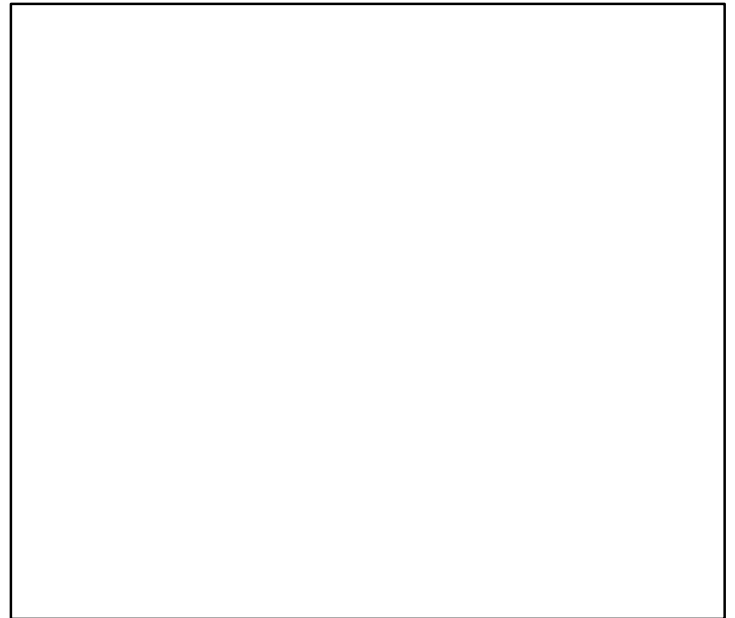
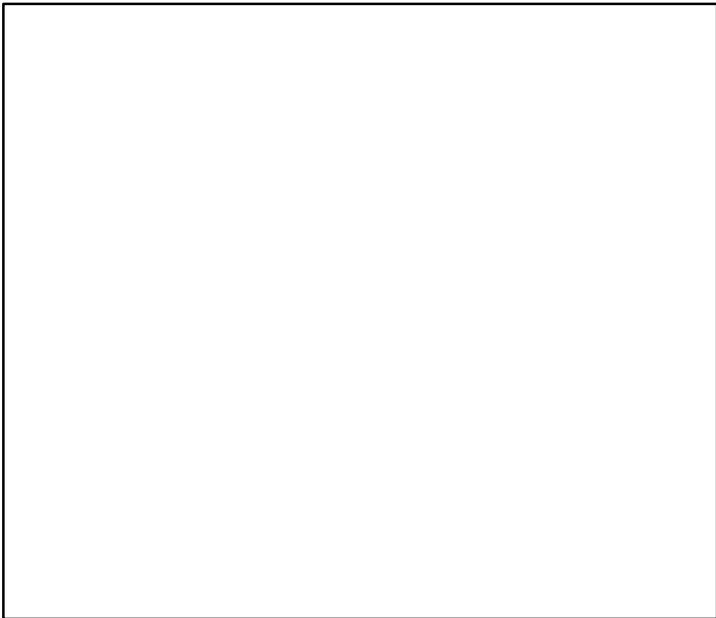
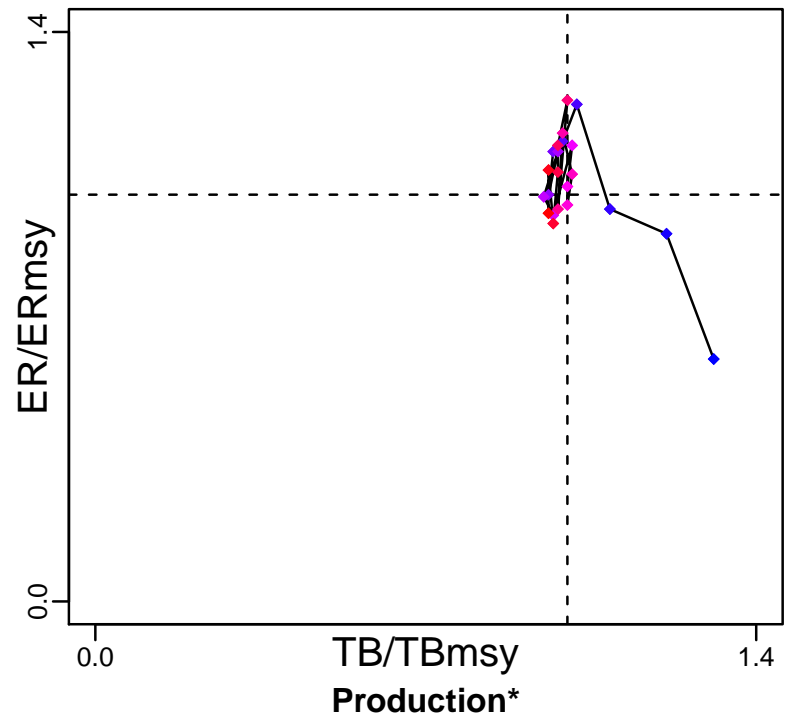
| Time Series | | | | | |
|-------------------|---------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | TB-MT | 2009 | 64,600 | - | - |
| SSB | SSB-MT | 2009 | 33,600 | - | 3+ |
| TN | - | - | - | - | - |
| R | - | - | - | - | - |
| F | - | - | - | - | - |
| ER | ER-ratio | 2009 | 0.189 | - | - |
| TC | TC-MT | 2009 | 9340 | | |
| TL | - | - | - | | |
| TB/TBmsy | TBdivTBmsy-dimensionless | 2009 | 0.96 | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | FdivFmsy-dimensionless | 2009 | 0.89 | | |
| ER/ERmsy | ER-ratio/ERmsy-calc-ratio | 2009 | 0.954 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | - | - | - | | |
| ER/ERmgt | - | - | - | | |

Swordfish Mediterranean Sea [SWORDMED]

Kobe MSYpref (1950–2009–CHING)



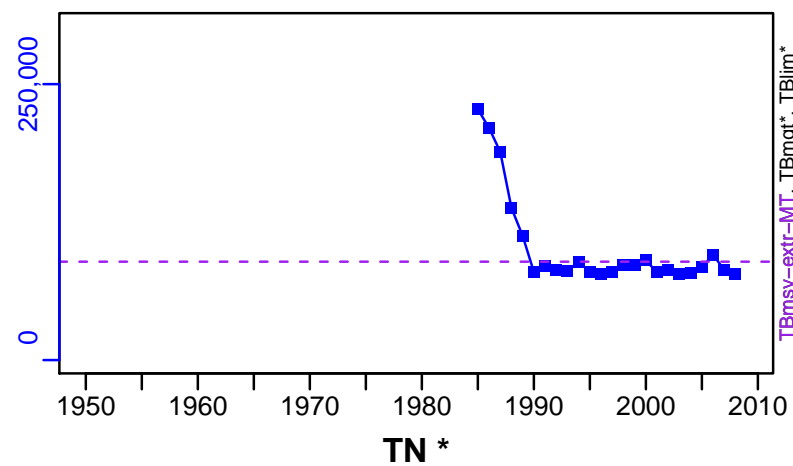
Kobe MGTpref (1950–2009–CHING)



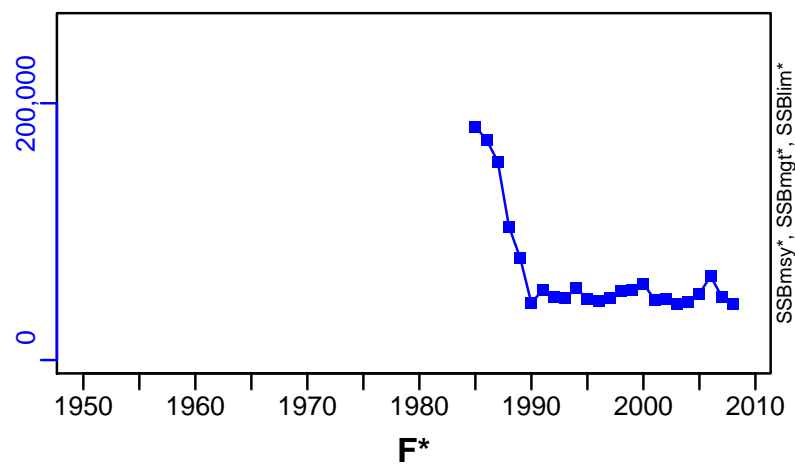
◆ Start Year ◆ End Year * No Data

Swordfish Mediterranean Sea [SWORDMED]

TB-MT (1950-2009-CHING)



SSB-MT (1950-2009-CHING)



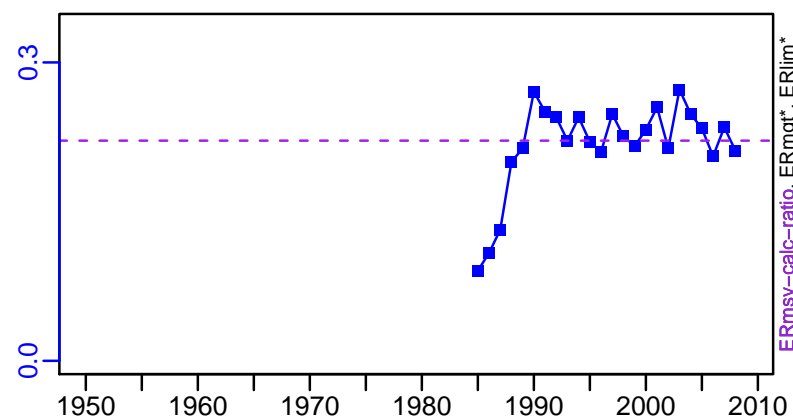
TN *



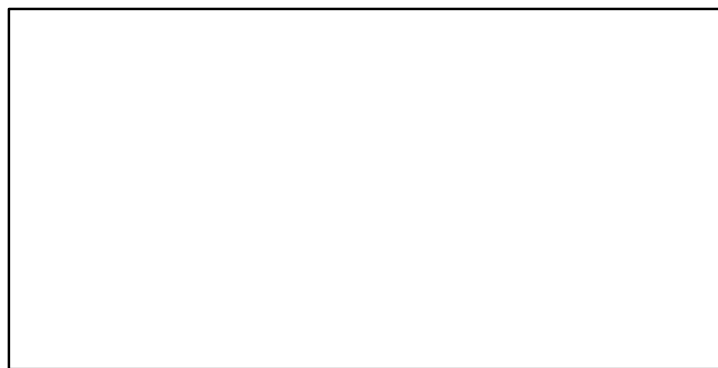
F*



ER-ratio (1950-2009-CHING)

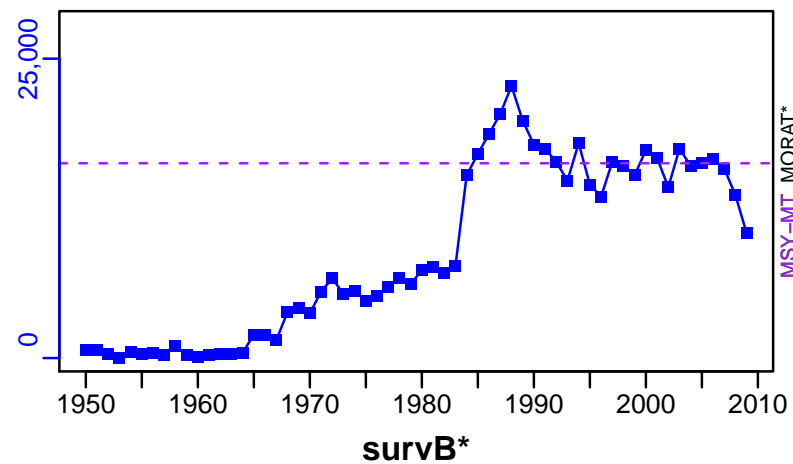


Recruits*



Swordfish Mediterranean Sea [SWORDMED]

TC-MT, TL*, RecC* (1950–2009–CHING)



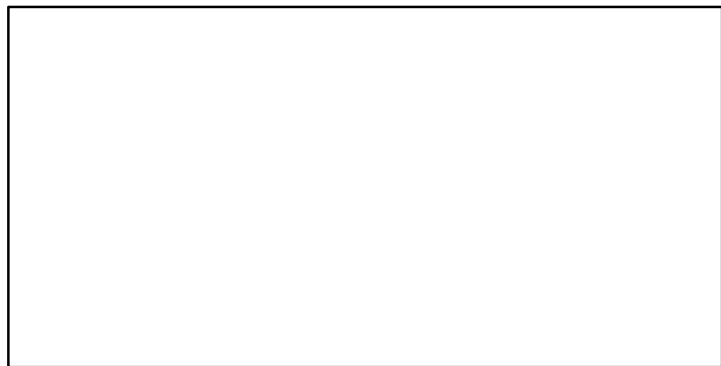
TAC*, Cpair*, Cadv*



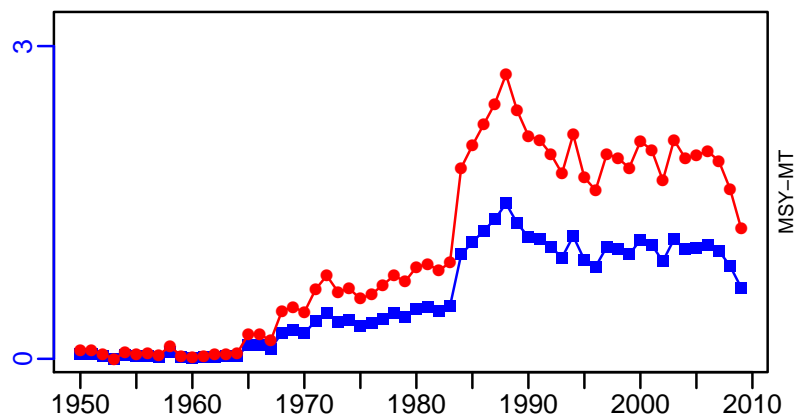
CPUE*



EFFORT*



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



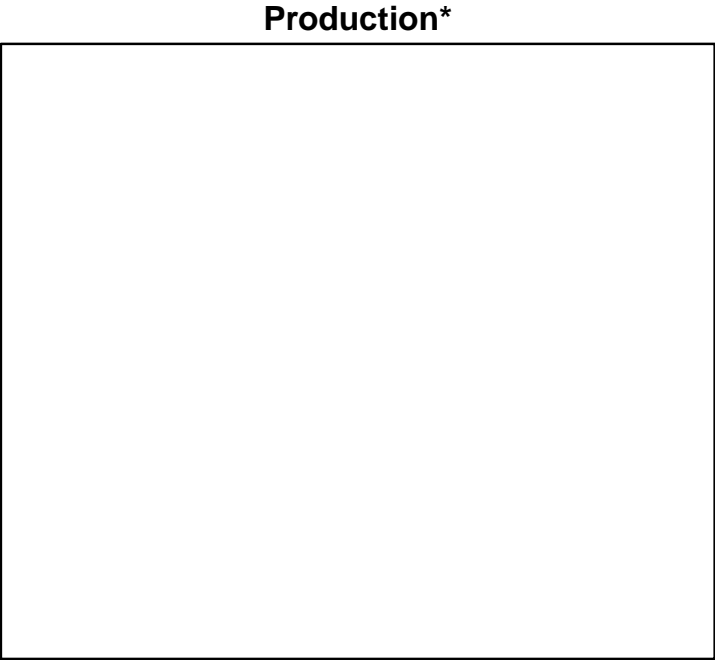
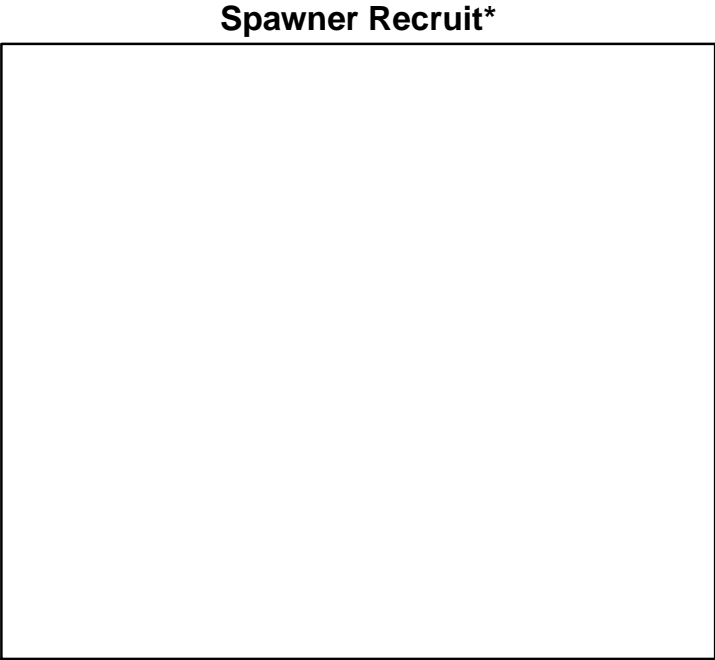
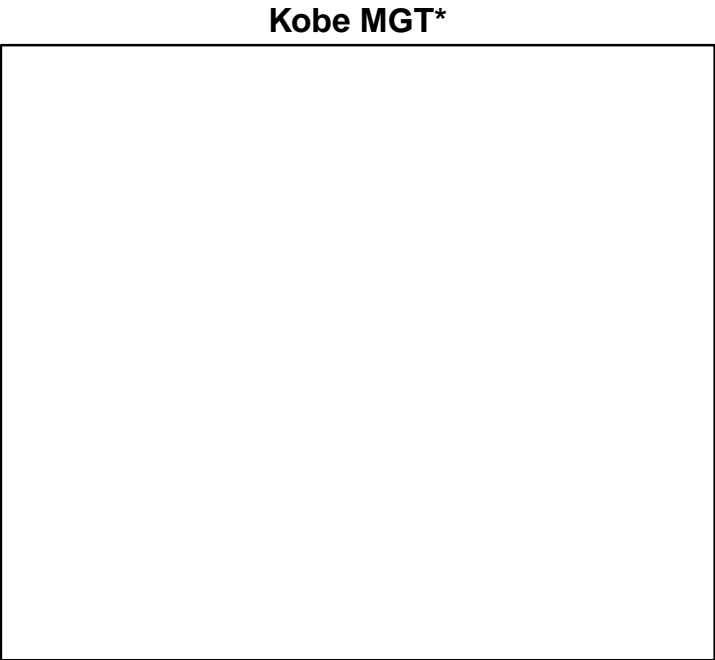
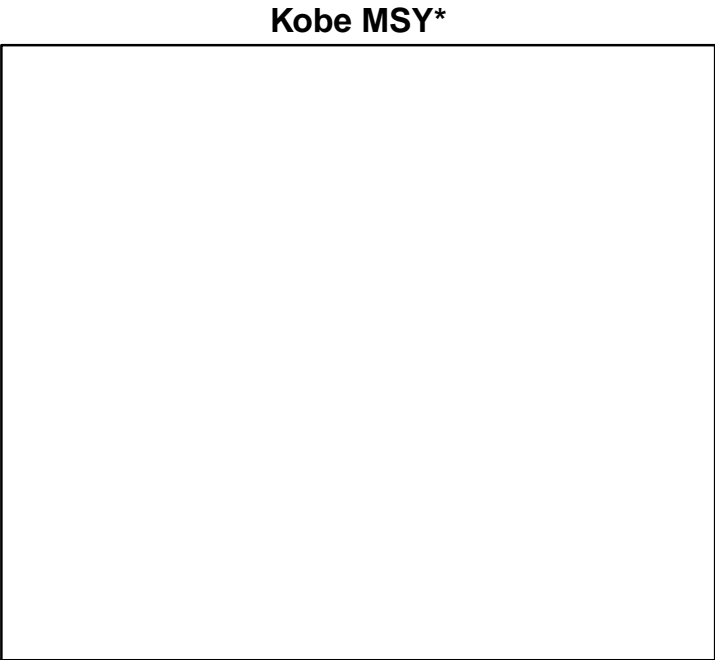
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Thornback skate Black Sea [TBSKAMEDGSA29]

| Metadata | |
|-----------------------------|---|
| Scientific Name | Raja clavata |
| Current Assess ID | STECF-TBSKAMEDGSA29-2008-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2014 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.16 |
| 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 | 2014 | 0.21 | - | - |
| ER | - | - | - | - | - |
| TC | TC-MT | 2014 | 96 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.312 | | |
| ER/ERmgt | - | - | - | | |



◆ Start Year ♦ End Year * No Data

Thornback skate Black Sea [TBSKAMEDGSA29]

TB*



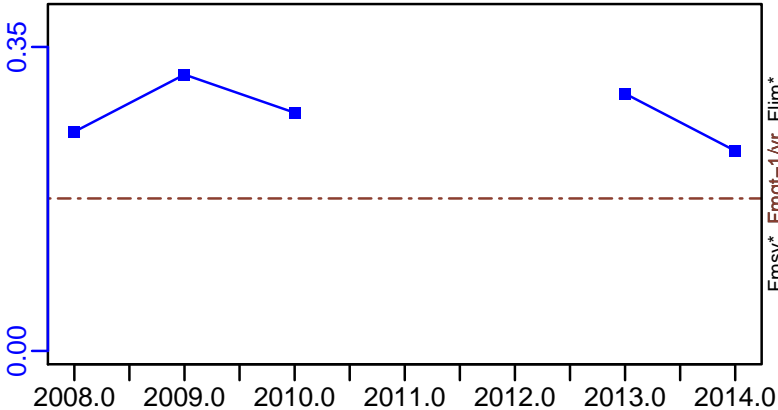
SSB*



TN *



F-1/yr (2008–2014–OSIO)



ER*

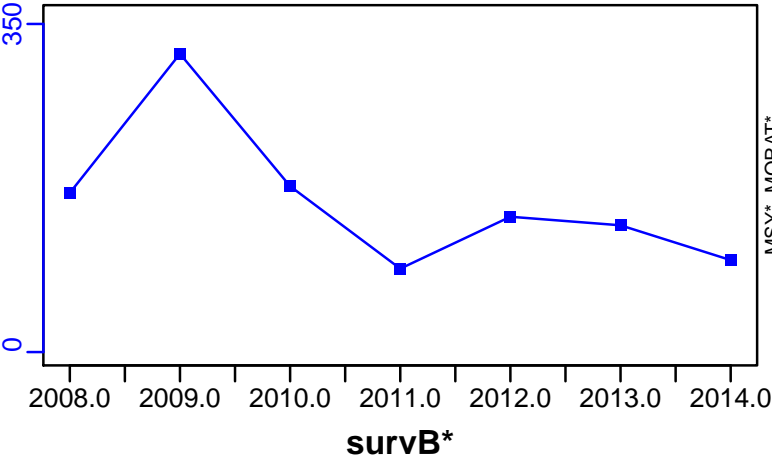


Recruits*



Thornback skate Black Sea [TBSKAMEDGSA29]

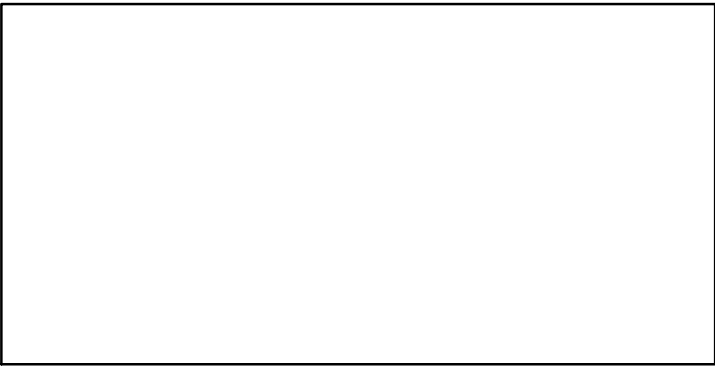
TC-MT, TL*, RecC* (2008–2014–OSIO)



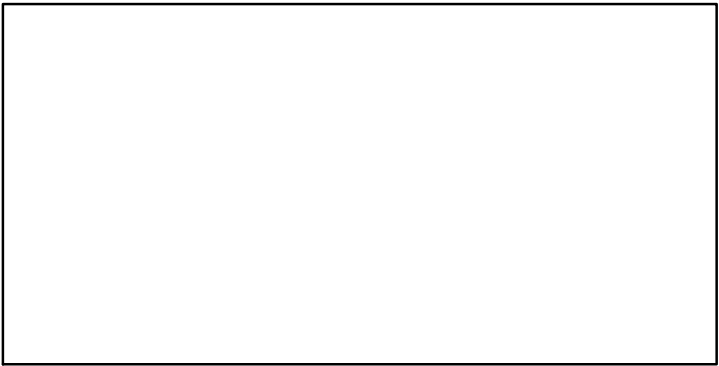
TAC*, Cpair*, Cadv*



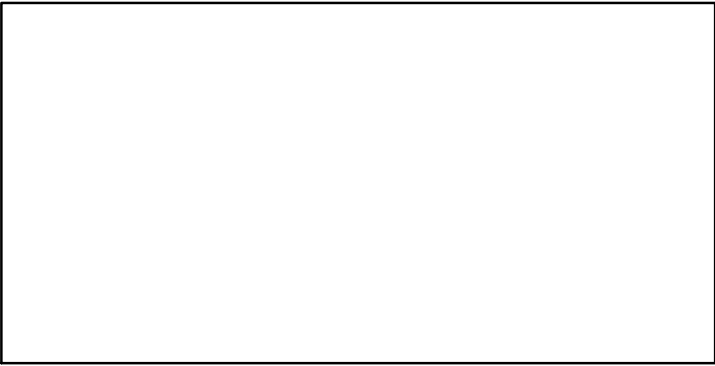
survB*



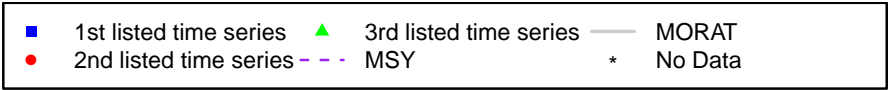
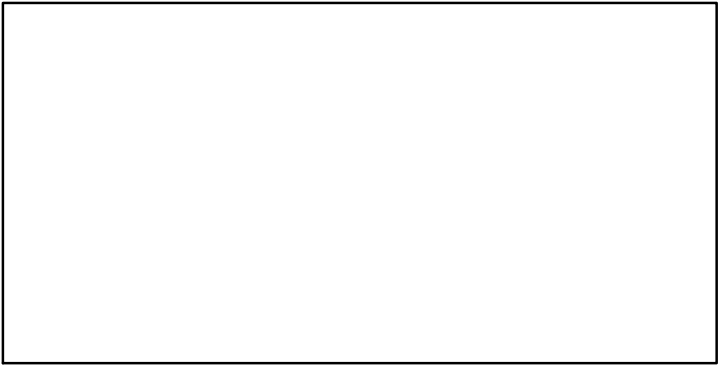
CPUE*



EFFORT*



CdivMSY*



Turbot Black Sea [TURBLKGA29]

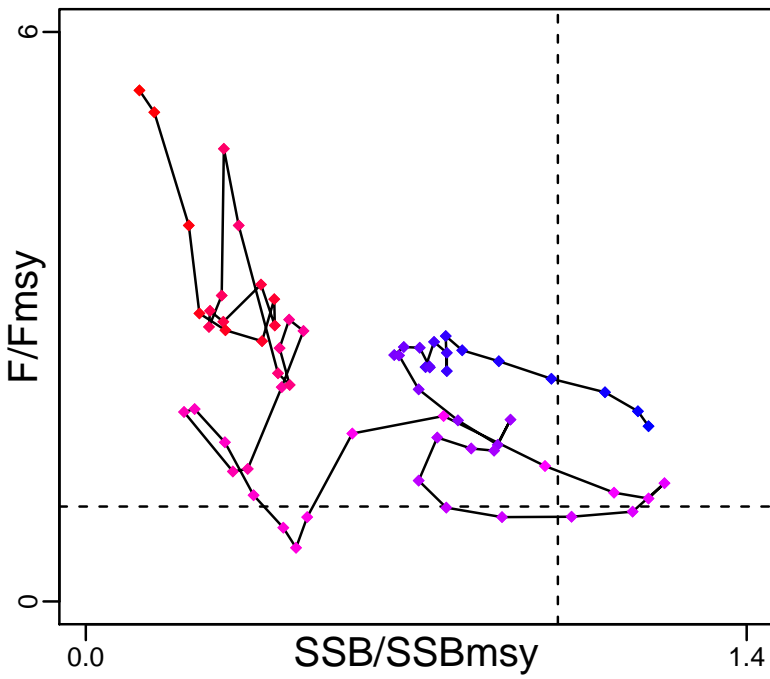
| Metadata | |
|-----------------------------|---|
| Scientific Name | Psetta maxima |
| Current Assess ID | STECF-TURBLKGA29-1950-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical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

| Reference Points | | | |
|------------------|-----------------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 8892 |
| Fmsy | Fmsy-1/yr | 2014 | 0.26 |
| ERmsy | ERmsy-est-ratio | 2014 | 0.067 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.26 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 2564 |
| M | M-1/yr | 2010 | 0.19 |
| TBlim | - | - | - |
| SSBlim | SSBlim-MT | 2014 | 3535 |
| Flim | - | - | - |
| ERlim | - | - | - |

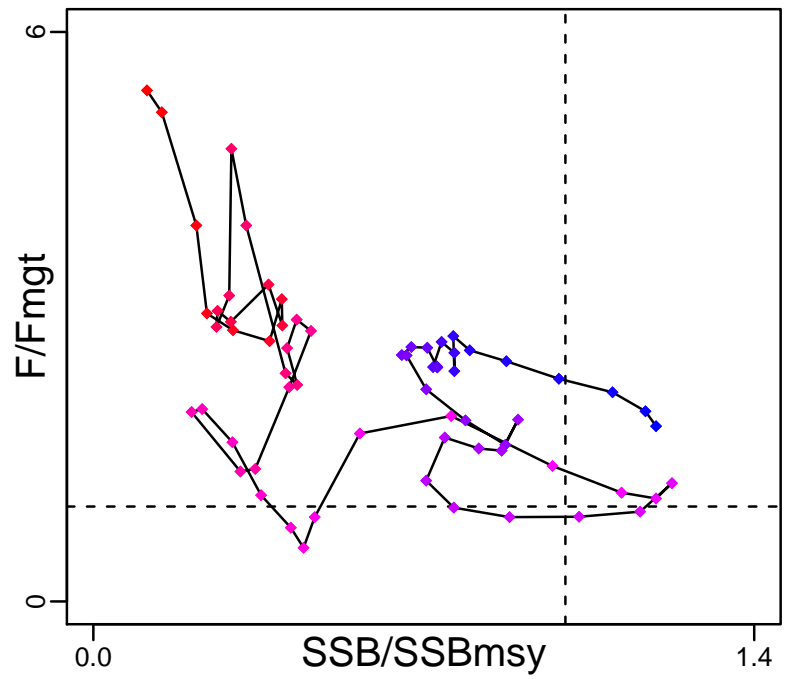
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 1010 | - | 4+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 716,000 | - | - |
| F | F-1/yr | 2014 | 1.4 | - | - |
| ER | ER-calc-ratio | 2014 | 0.267 | - | - |
| TC | TC-MT | 2014 | 1160 | | |
| TL | - | - | - | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.114 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 5.385 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 3.984 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 5.385 | | |
| ER/ERmgt | - | - | - | | |

Turbot Black Sea [TURBLKGSA29]

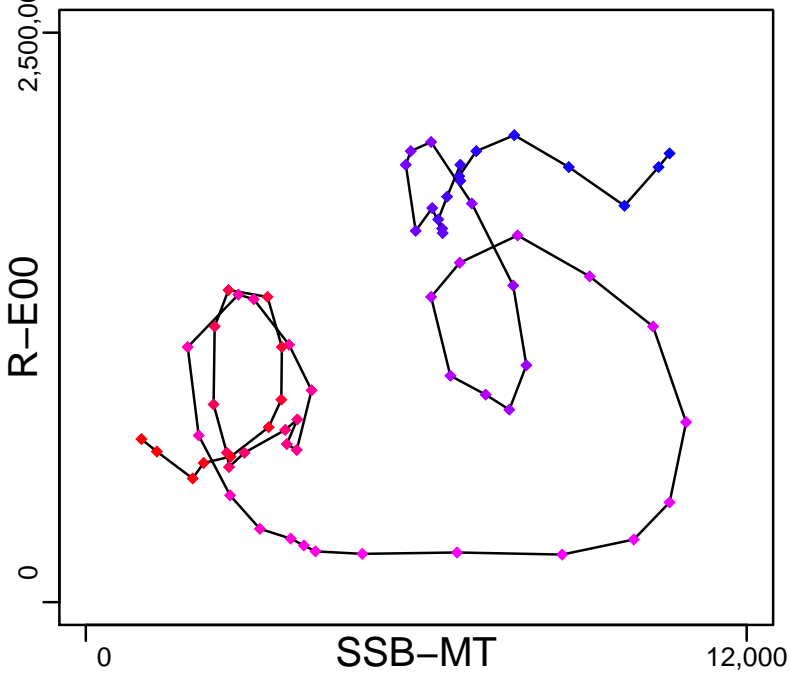
Kobe MSYpref (1950–2014–OSIO)



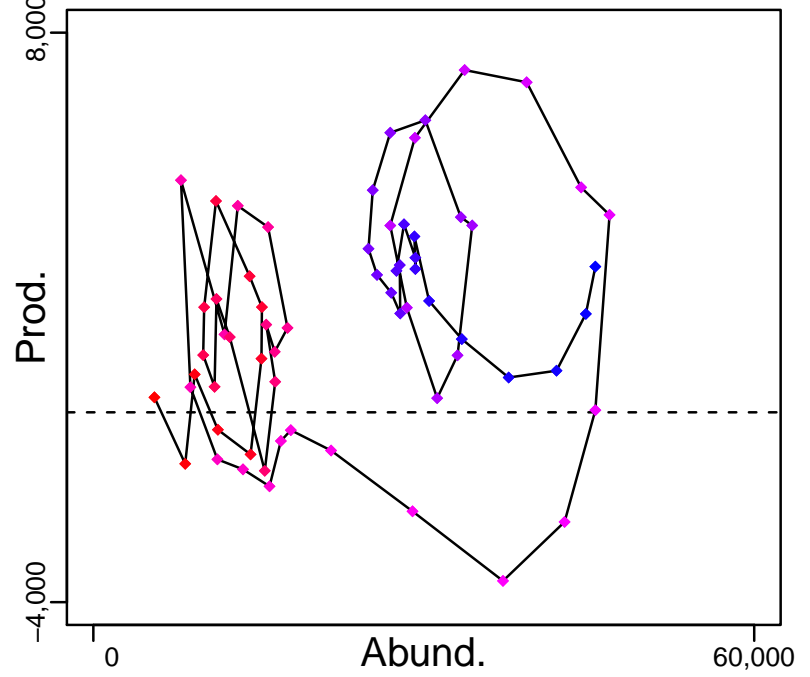
Kobe MGTpref (1950–2014–OSIO)



Spawner Recruit (1950–2014–OSIO)



Production (1950–2014–OSIO)



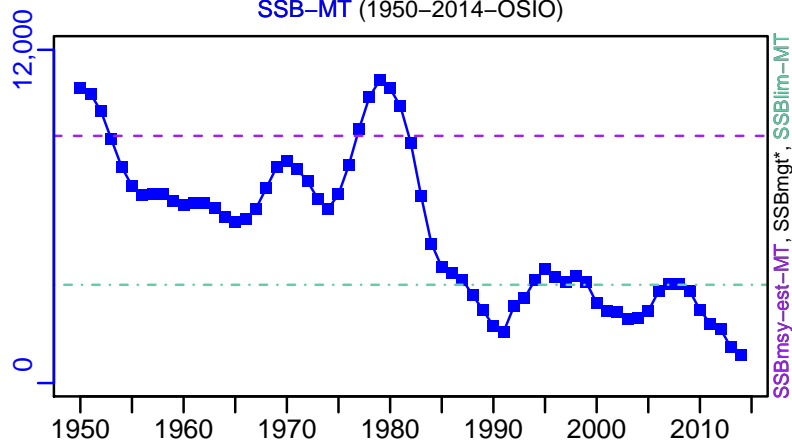
◆ Start Year ◆ End Year * No Data

Turbot Black Sea [TURBLKGSA29]

TB*



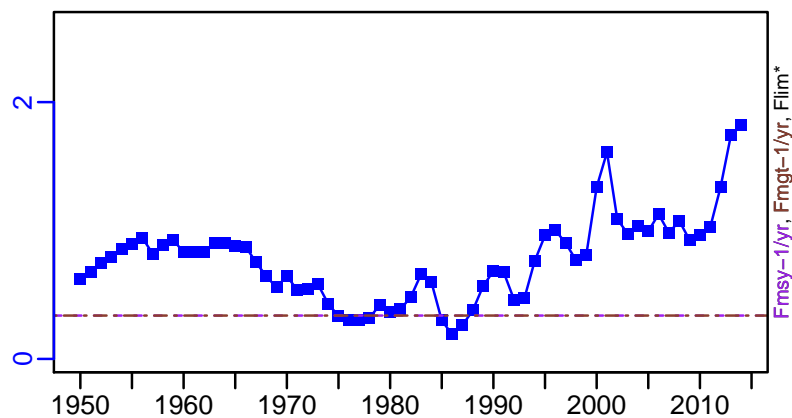
SSB-MT (1950–2014–OSIO)



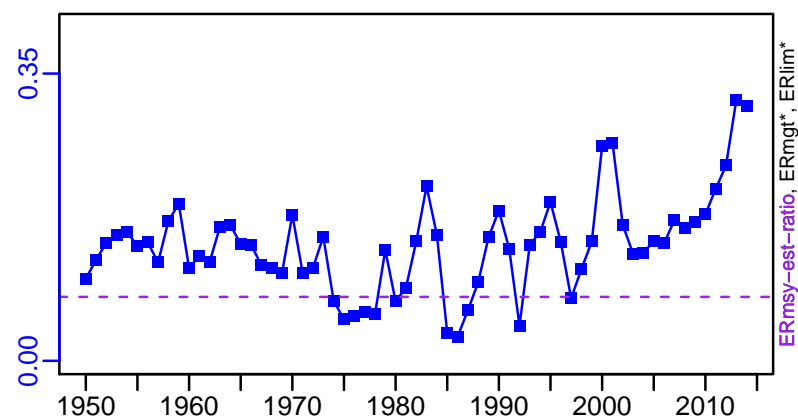
TN *



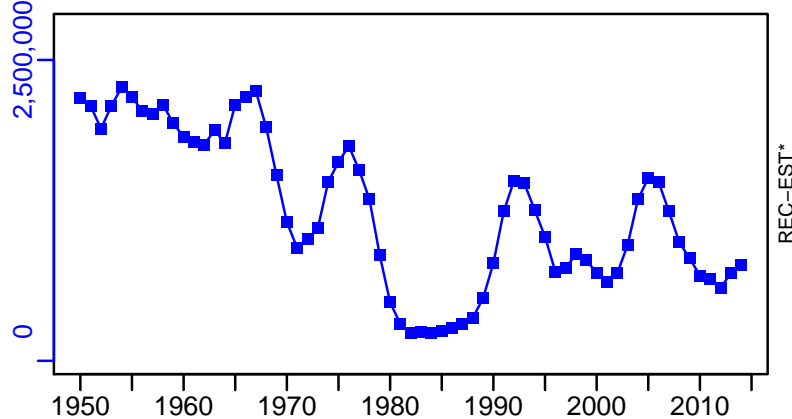
F-1/yr (1950–2014–OSIO)



ER-calc-ratio (1950–2014–OSIO)

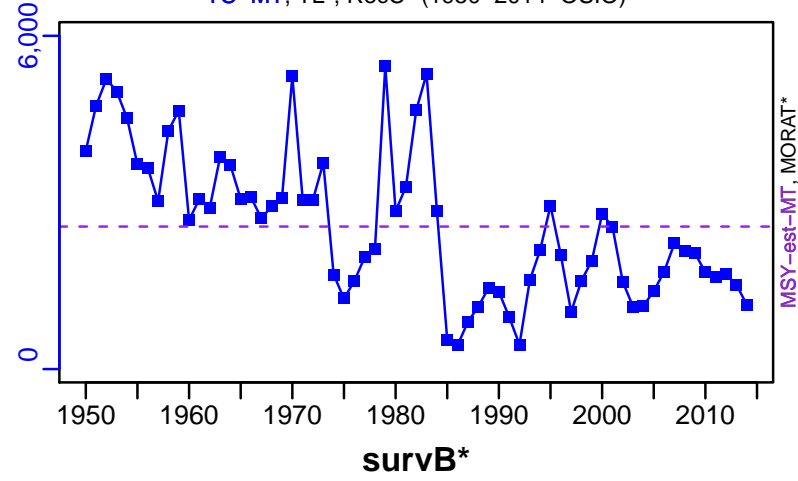


R-E00 (1950–2014–OSIO)



Turbot Black Sea [TURBLKGSA29]

TC-MT, TL*, RecC* (1950–2014–OSIO)



TAC*, Cpair*, Cadv*



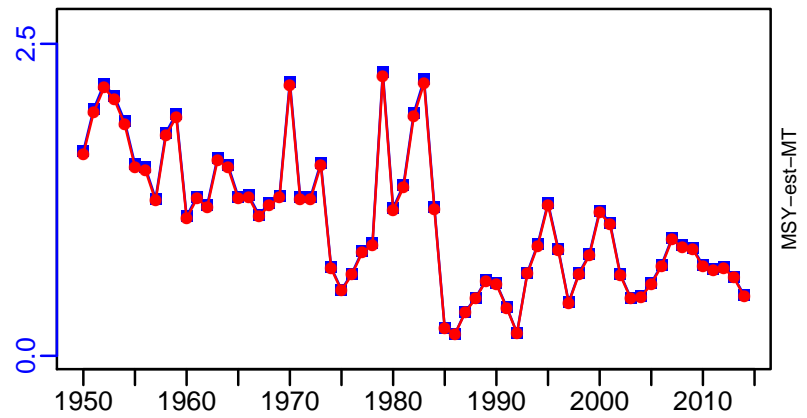
CPUE*



EFFORT*



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



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

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

| Metadata | |
|-----------------------------|---|
| Scientific Name | Lophius piscatorius |
| Current Assess ID | STECF-WANGLGSA1-7-2013-2015-OSIO |
| Area | Geographical Sub-Areas 1-7 |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific, Technical and Economic Committee for Fisheries |
| Asmts in RAM | 2015 |

| Reference Points | | | |
|------------------|-----------|-----------|-------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | - | - | - |
| Fmsy | - | - | - |
| ERmsy | - | - | - |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2015 | 0.22 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | - | - | - |
| M | - | - | - |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

| Time Series | | | | | |
|-------------------|------------------|-----------|------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2015 | 391 | - | - |
| TN | - | - | - | - | - |
| R | R-E00 | 2015 | 1,270,000 | - | - |
| F | F-1/yr | 2015 | 0.45 | - | - |
| ER | ER-calc-ratio | 2015 | 3.468 | - | - |
| TC | - | - | - | | |
| TL | TL-MT | 2015 | 3520 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | - | - | - | | |
| F/Fmsy | - | - | - | | |
| ER/ERmsy | - | - | - | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2015 | 2.045 | | |
| ER/ERmgt | - | - | - | | |

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

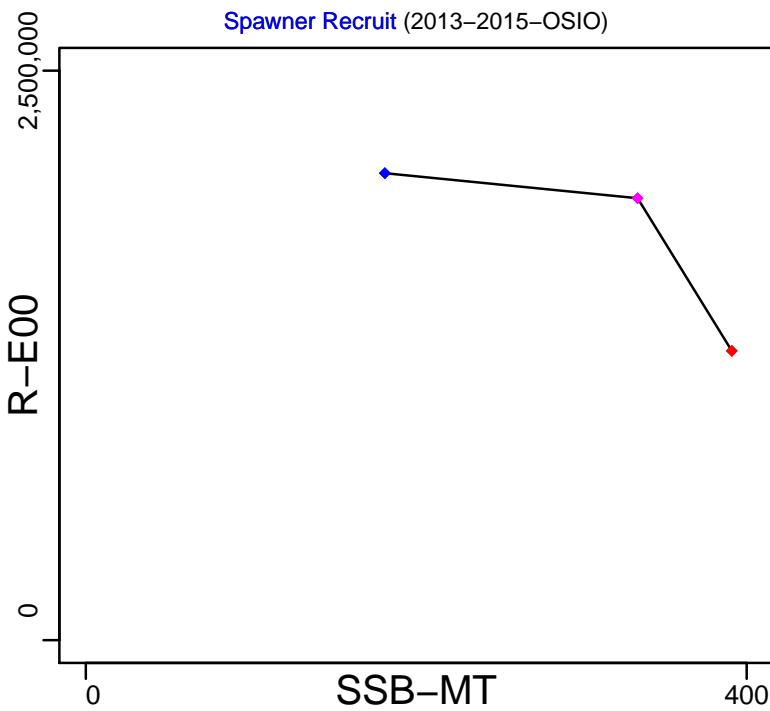
Kobe MSY*



Kobe MGT*



Spawner Recruit (2013–2015–OSIO)



Production*



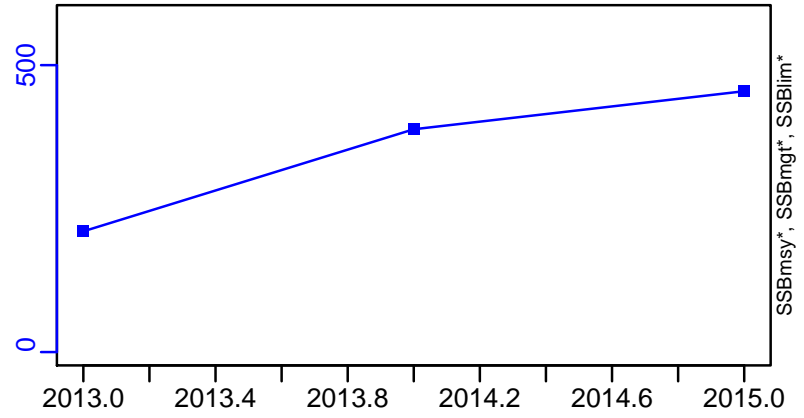
◆ Start Year ◆ End Year * No Data

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

TB*



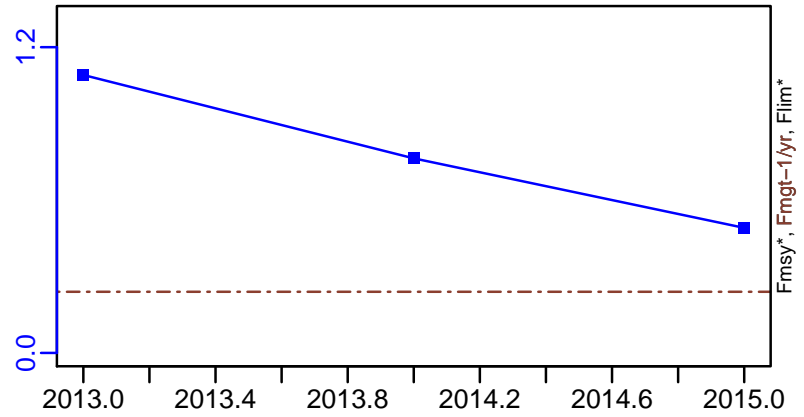
SSB-MT (2013-2015-OSIO)



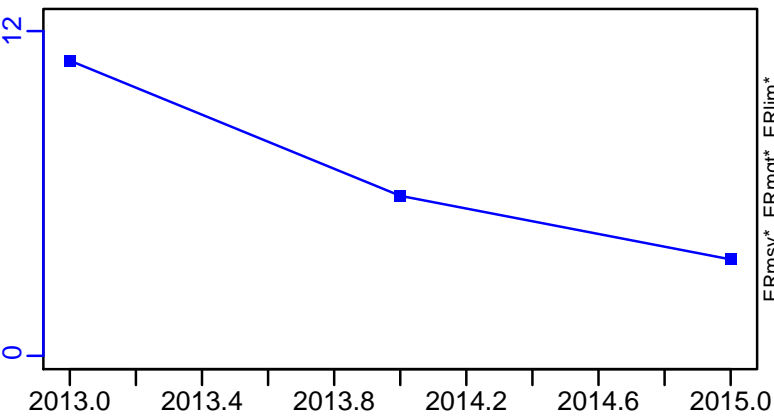
TN *



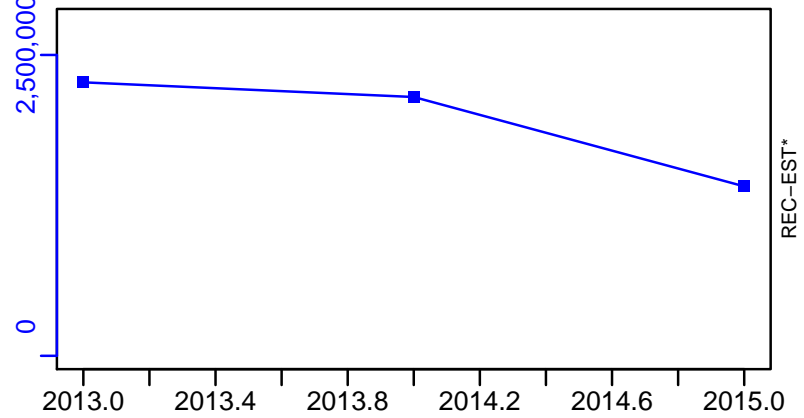
F-1/yr (2013-2015-OSIO)



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



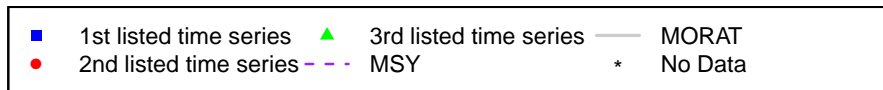
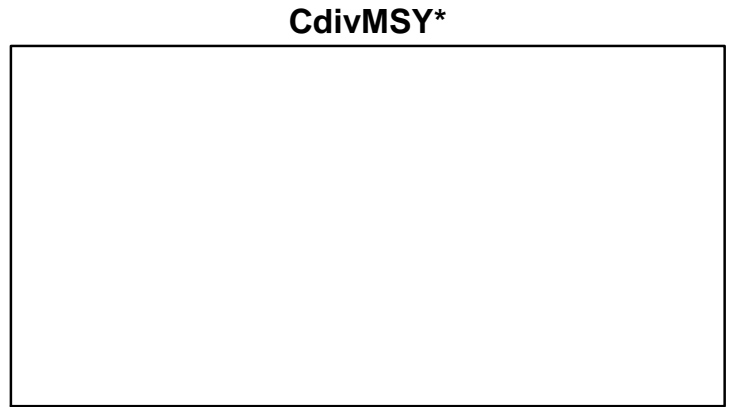
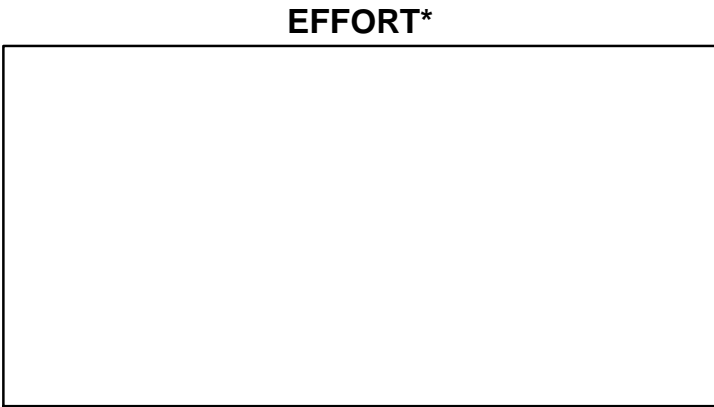
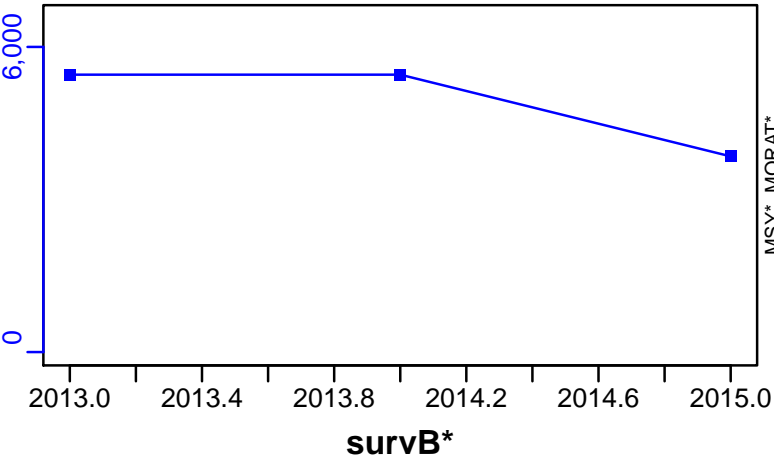
R-E00 (2013-2015-OSIO)



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

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

TAC*, Cpair*, Cadv*



Whiting Black Sea [WHITMEDGSA29]

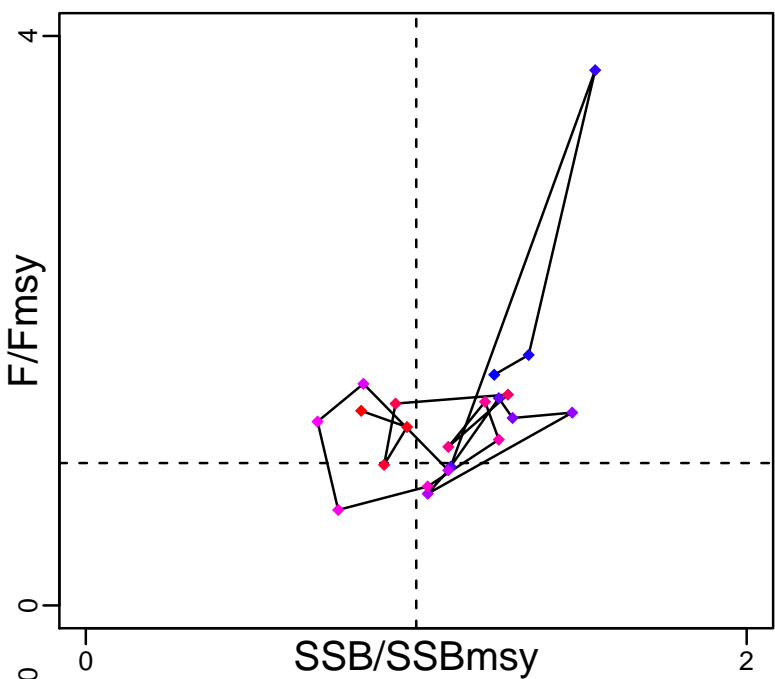
| Metadata | |
|-----------------------------|---|
| Scientific Name | Merlangius merlangus |
| Current Assess ID | STECF-WHITMEDGSA29-1994-2014-OSIO |
| Area | Black Sea |
| Management Authority | General Fisheries Council for the Mediterranean, DG MARE, and national states |
| Assessor | Scientific,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

| Reference Points | | | |
|------------------|-----------------|-----------|--------|
| Type | ID | Asmt Year | Value |
| TBmsy | - | - | - |
| SSBmsy | SSBmsy-est-MT | 2014 | 14,401 |
| Fmsy | Fmsy-1/yr | 2014 | 0.79 |
| ERmsy | ERmsy-est-ratio | 2014 | 0.293 |
| TBmgt | - | - | - |
| SSBmgt | - | - | - |
| Fmgt | Fmgt-1/yr | 2014 | 0.79 |
| ERmgt | - | - | - |
| TB0 | - | - | - |
| SSB0 | - | - | - |
| MSY | MSY-est-MT | 2014 | 9741 |
| M | M-1/yr | 2011 | 0.46 |
| TBlim | - | - | - |
| SSBlim | - | - | - |
| Flim | - | - | - |
| ERlim | - | - | - |

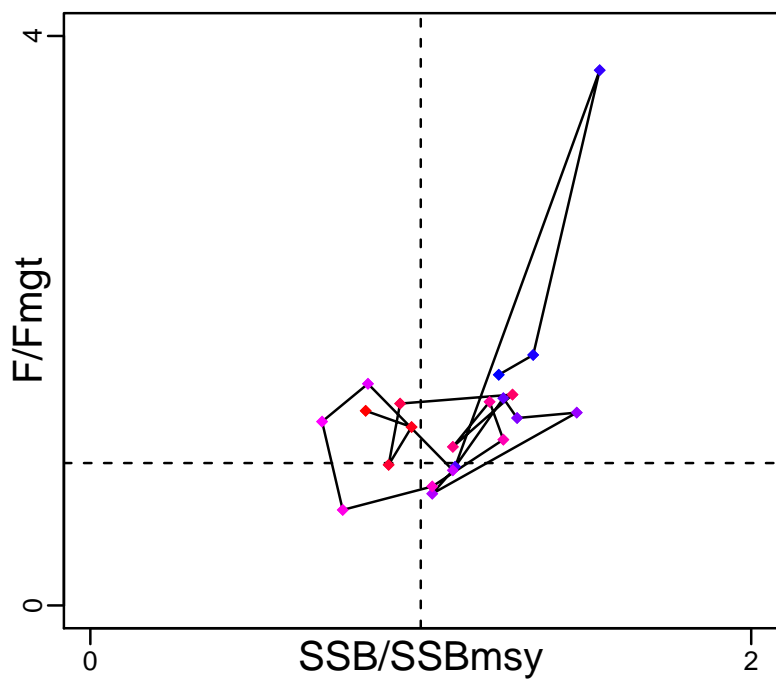
| Time Series | | | | | |
|-------------------|-------------------------------|-----------|--------------------|-----|-----|
| Type | ID | Asmt Year | Curr Value | Sex | Age |
| TB | - | - | - | - | - |
| SSB | SSB-MT | 2014 | 12,000 | - | 1+ |
| TN | - | - | - | - | - |
| R | R-E00 | 2014 | 2.32×10^8 | - | - |
| F | F-1/yr | 2014 | 1.08 | - | - |
| ER | ER-calc-ratio | 2014 | 0.32 | - | - |
| TC | TC-MT | 2014 | 8860 | | |
| TL | TL-MT | 2011 | 8250 | | |
| TB/TBmsy | - | - | - | | |
| SSB/SSBmsy | SSB-MT/SSBmsy-est-MT | 2014 | 0.833 | | |
| F/Fmsy | F-1/yr/Fmsy-1/yr | 2014 | 1.367 | | |
| ER/ERmsy | ER-calc-ratio/ERmsy-est-ratio | 2014 | 1.092 | | |
| TB/TBmgt | - | - | - | | |
| SSB/SSBmgt | - | - | - | | |
| F/Fmgt | F-1/yr/Fmgt-1/yr | 2014 | 1.367 | | |
| ER/ERmgt | - | - | - | | |

Whiting Black Sea [WHITMEDGSA29]

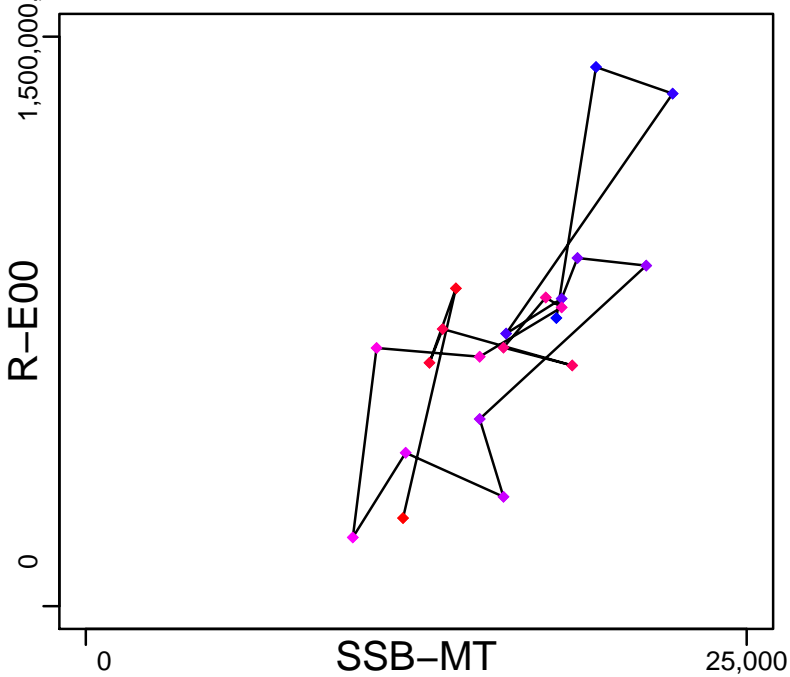
Kobe MSYpref (1994–2014–OSIO)



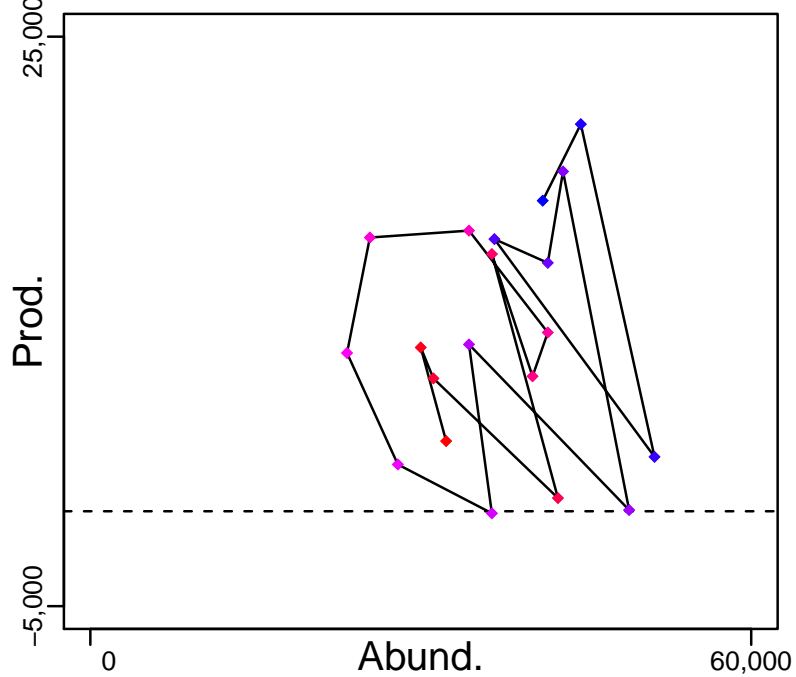
Kobe MGTpref (1994–2014–OSIO)



Spawner Recruit (1994–2014–OSIO)



Production (1994–2014–OSIO)



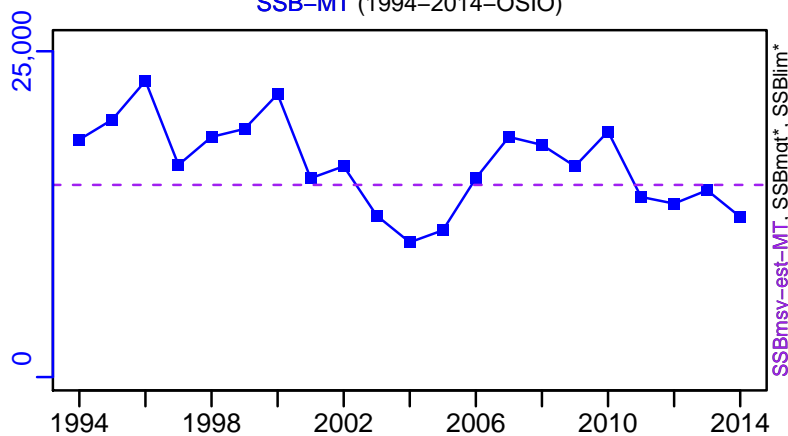
◆ Start Year ◆ End Year * No Data

Whiting Black Sea [WHITMEDGSA29]

TB*



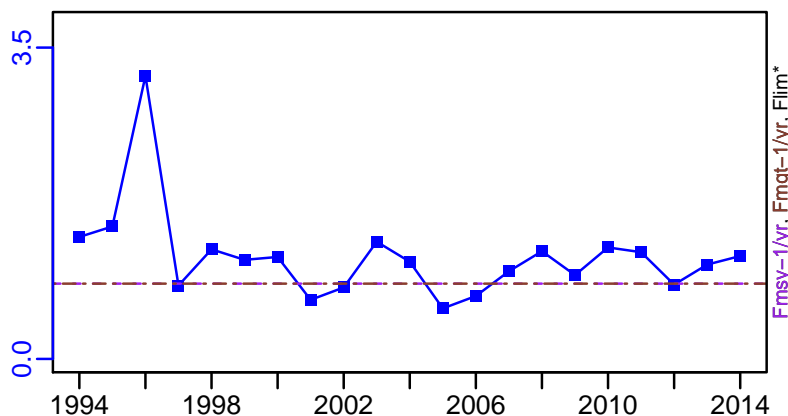
SSB-MT (1994–2014–OSIO)



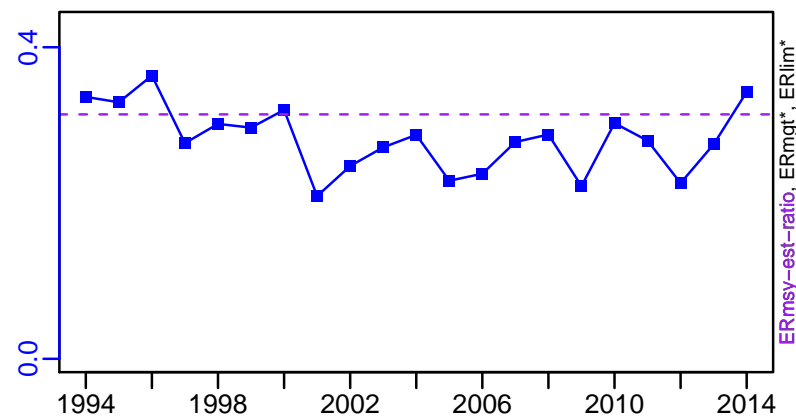
TN *



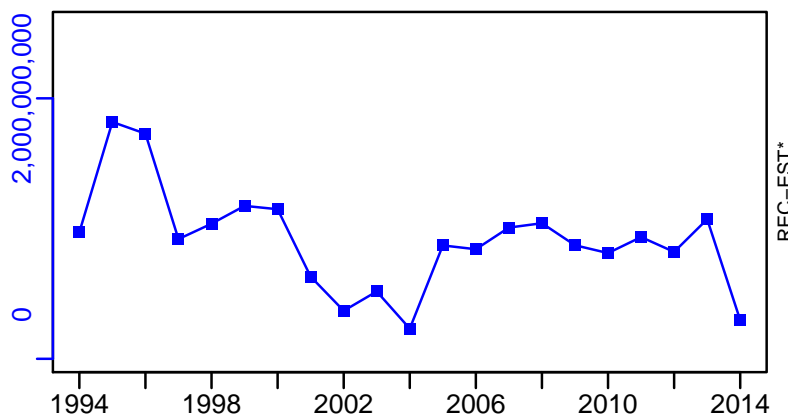
F-1/yr (1994–2014–OSIO)



ER-calc-ratio (1994–2014–OSIO)



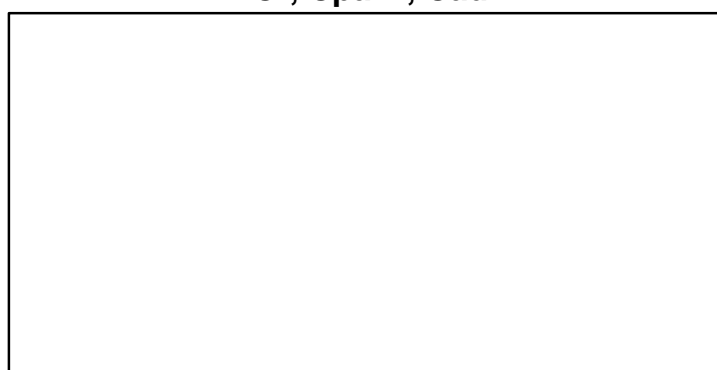
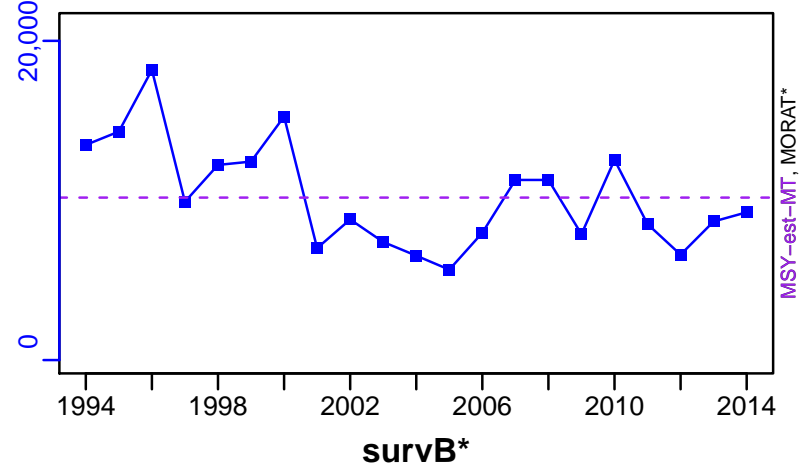
R-E00 (1994–2014–OSIO)



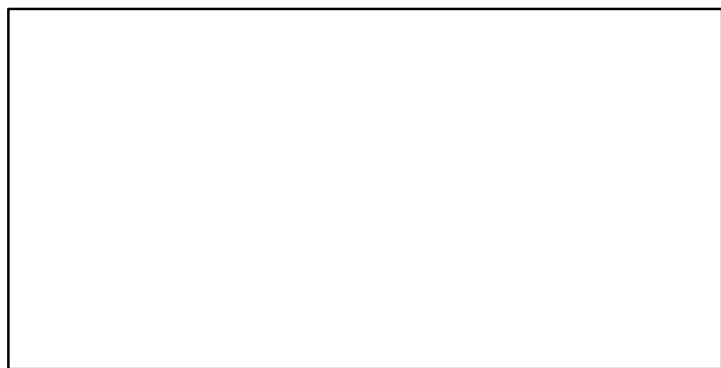
Whiting Black Sea [WHITMEDGSA29]

TC-MT, TL*, RecC* (1994–2014–OSIO)

TAC*, Cpair*, Cadv*



EFFORT*



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

