

shrimps Stocks

v4.63 (Dec-07-2023)

Not present Present Preferred

Stock	Time Series Types			
	B/Bmsy	U/Umsy	B/Bmgt	U/Umgmt
1. APSHRIMPSOJ [Alaskan pink shrimp Sea of Japan]	TB SSB	ER F	TB SSB	ER F
2. BRNSHRIMPBM [Brown shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
3. BTSHRIMPNAUST [Brown tiger shrimp Northern Australia]	TB SSB	ER F	TB SSB	ER F
4. CSHRIMPCWA [Coastal shrimp Central West Africa]	TB SSB	ER F	TB SSB	ER F
5. DRSHRIMPWCWA [Deep water rose shrimp Central West Africa]	TB SSB	ER F	TB SSB	ER F
6. GRSHRIMPMDGSA12-16 [Giant red shrimp Geographical Sub-Areas 12-16]	TB SSB	ER F	TB SSB	ER F
7. GRSHRIMPMDGSA18-19 [Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19)]	TB SSB	ER F	TB SSB	ER F
8. GRSHRIMPMDGSA9-11 [Giant red shrimp Geographical Sub-Areas 9-11]	TB SSB	ER F	TB SSB	ER F
9. GTPRAWNNAUST [Grooved tiger prawn Northern Australia]	TB SSB	ER F	TB SSB	ER F
10. NSHRIMPCSCH [Nylon shrimp Central-Southern Chile]	TB SSB	ER F	TB SSB	ER F
11. NSHRIMPNC [Nylon shrimp Northern Chile]	TB SSB	ER F	TB SSB	ER F
12. PANDALGOM [Northern shrimp Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
13. PANDAL-II [Northern shrimp North-East Arctic]	TB SSB	ER F	TB SSB	ER F
14. PANDALIIIaW-IVaE [Northern shrimp ICES 3a(west)-4a(east)]	TB SSB	ER F	TB SSB	ER F
15. PANDALIVa [Northern shrimp Northern North Sea]	TB SSB	ER F	TB SSB	ER F
16. PANDALNUNE [Northern shrimp Nunavut/Nunavik East]	TB SSB	ER F	TB SSB	ER F
17. PANDALNUNW [Northern shrimp Nunavut/Nunavik West]	TB SSB	ER F	TB SSB	ER F
18. PANDALSFA10 [Northern shrimp Shrimp Fishing Area 10]	TB SSB	ER F	TB SSB	ER F
19. PANDALSFA12 [Northern shrimp Shrimp Fishing Area 12]	TB SSB	ER F	TB SSB	ER F
20. PANDALSFA13-15 [Northern shrimp Eastern Scotian Shelf (SFA 13-15)]	TB SSB	ER F	TB SSB	ER F
21. PANDALSFA2-3 [Northern shrimp Shrimp Fishing Areas 2-3]	TB SSB	ER F	TB SSB	ER F
22. PANDALSFA4 [Northern shrimp Shrimp Fishing Area 4]	TB SSB	ER F	TB SSB	ER F
23. PANDALSFA5 [Northern shrimp Shrimp Fishing Area 5]	TB SSB	ER F	TB SSB	ER F
24. PANDALSFA6 [Northern shrimp Shrimp Fishing Area 6]	TB SSB	ER F	TB SSB	ER F
25. PANDALSFA8 [Northern shrimp Shrimp Fishing Area 8]	TB SSB	ER F	TB SSB	ER F
26. PANDALSFA9 [Northern shrimp Shrimp Fishing Area 9]	TB SSB	ER F	TB SSB	ER F
27. PANDALSMA14 [Ocean shrimp Shrimp Management Area 14]	TB SSB	ER F	TB SSB	ER F
28. PANDALSMA16 [Ocean shrimp Shrimp Management Area 16]	TB SSB	ER F	TB SSB	ER F
29. PANDALSMA18-19 [Ocean shrimp Shrimp Management Areas 18 and 19]	TB SSB	ER F	TB SSB	ER F
30. PANDALSMAFR [Ocean shrimp Shrimp Management Area FR]	TB SSB	ER F	TB SSB	ER F
31. PANDALSMAGTSE [Ocean shrimp Shrimp Management Area GTSE]	TB SSB	ER F	TB SSB	ER F
32. PANDALSMAPRD [Ocean shrimp Shrimp Management Area PRD]	TB SSB	ER F	TB SSB	ER F
33. PINKSHRIMPBM [Pink shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F

34. PSHRMPMEDGSA6 [Deep water rose shrimp Northern Spain]	TB SSB	ER F	TB SSB	ER F
35. RDSHRMPMEDGSA1 [Red shrimp Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
36. RDSHRMPMEDGSA15-16 [Red shrimp Malta Island and South of Sicily (GSA 15, 16)]	TB SSB	ER F	TB SSB	ER F
37. RDSHRMPMEDGSA6-7 [Red shrimp Geographical Sub-Areas 6-7]	TB SSB	ER F	TB SSB	ER F
38. RDSHRMPMEDGSA9-11 [Red shrimp Geographical Sub-Areas 9-11]	TB SSB	ER F	TB SSB	ER F
39. RRSHRIMPGM [Royal red shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F
40. RSHRMPMEDGSA1 [Deep water rose shrimp Northern Alboran Sea]	TB SSB	ER F	TB SSB	ER F
41. RSHRMPMEDGSA12-16 [Deep water rose shrimp Geographical Sub-Areas 12-16]	TB SSB	ER F	TB SSB	ER F
42. RSHRMPMEDGSA17-19 [Deep water rose shrimp Geographical Sub-Areas 17-19]	TB SSB	ER F	TB SSB	ER F
43. RSHRMPMEDGSA22-23 [Deep water rose shrimp Aegean Sea and Crete Island (GSA 22,23)]	TB SSB	ER F	TB SSB	ER F
44. RSHRMPMEDGSA5 [Deep water rose shrimp Balearic Island]	TB SSB	ER F	TB SSB	ER F
45. RSHRMPMEDGSA9-11 [Deep water rose shrimp Geographical Sub-Areas 9-11]	TB SSB	ER F	TB SSB	ER F
46. SHAKOIMKB [Shako Ise and Mikawa Bay]	TB SSB	ER F	TB SSB	ER F
47. SMSHRMPMEDGSA10 [Spottail mantis shrimp South Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
48. SMSHRMPMEDGSA17-18 [Spottail mantis shrimp Adriatic Sea (GSA 17,18)]	TB SSB	ER F	TB SSB	ER F
49. SMSHRMPMEDGSA9 [Spottail mantis shrimp Ligurian and North Tyrrhenian Sea]	TB SSB	ER F	TB SSB	ER F
50. SPSHRIMPWCWA [Southern pink shrimp Central West Africa]	TB SSB	ER F	TB SSB	ER F
51. SPSHRIMPNWAMRT [Southern pink shrimp North West Africa Mauritania]	TB SSB	ER F	TB SSB	ER F
52. SPSHRIMPNWASEN_GMB [Southern pink shrimp North West Africa Senegal_The Gambia]	TB SSB	ER F	TB SSB	ER F
53. SSHRIMPSMAGTSE [Sidestripe shrimp Shrimp Management Area GTSE]	TB SSB	ER F	TB SSB	ER F
54. SSHRIMPSMAPRD [Sidestripe shrimp Shrimp Management Area PRD]	TB SSB	ER F	TB SSB	ER F
55. SSSHRIMPSMA14 [Sidestripe shrimp Shrimp Management Area 14]	TB SSB	ER F	TB SSB	ER F
56. SSSHRIMPSMA16 [Sidestripe shrimp Shrimp Management Area 16]	TB SSB	ER F	TB SSB	ER F
57. SSSHRIMPSMA18-19 [Sidestripe shrimp Shrimp Management Areas 18 and 19]	TB SSB	ER F	TB SSB	ER F
58. SSSHRIMPSMAFR [Sidestripe shrimp Shrimp Management Area FR]	TB SSB	ER F	TB SSB	ER F
59. STRSHRIMPNUNE [Aesop shrimp Nunavut/Nunavik East]	TB SSB	ER F	TB SSB	ER F
60. STRSHRIMPNUNW [Aesop shrimp Nunavut/Nunavik West]	TB SSB	ER F	TB SSB	ER F
61. STRSHRIMPSFA4 [Aesop shrimp Shrimp Fishing Area 4]	TB SSB	ER F	TB SSB	ER F
62. WSHRIMPGM [White shrimp Gulf of Mexico]	TB SSB	ER F	TB SSB	ER F

Alaskan pink shrimp Sea of Japan [APSHRIMPJOJ]

Metadata	
Scientific Name	Pandalus eous
Current Assess ID	FAFRFJ-APSHRIMPJOJ-1985-2013-JPNIMP2016
Area	Sea of Japan
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	1730		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Alaskan pink shrimp Sea of Japan [APSHRIMPSOJ]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Alaskan pink shrimp Sea of Japan [APSHRIMP SJ]

TB*



SSB*



TN *



F*



ER*



Recruits*

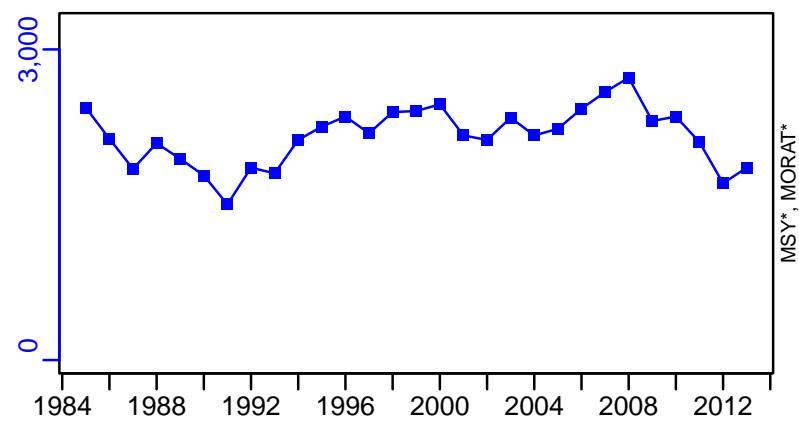


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

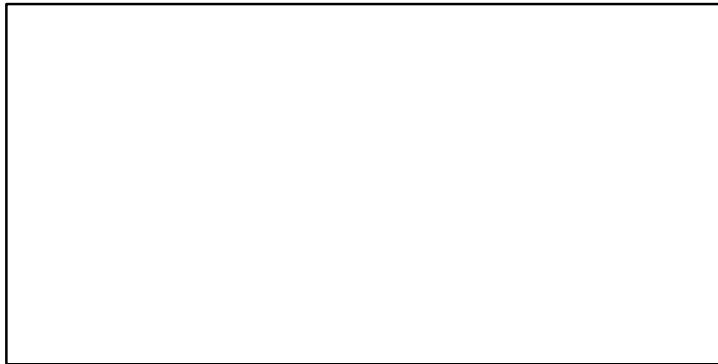
Alaskan pink shrimp Sea of Japan [APSHRIMP SJ]

TC-MT, TL*, RecC* (1985–2013-JPNIMP2016)

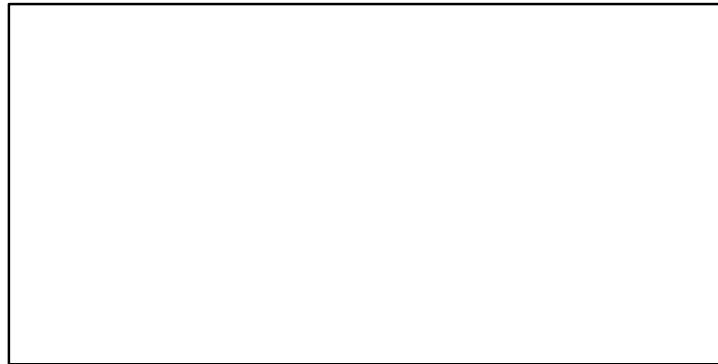
TAC*, Cpair*, Cadv*



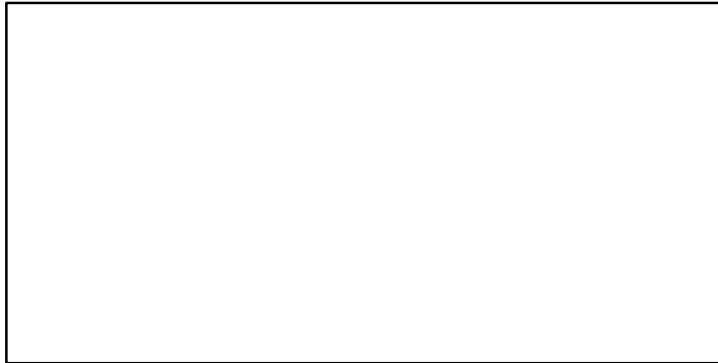
survB*



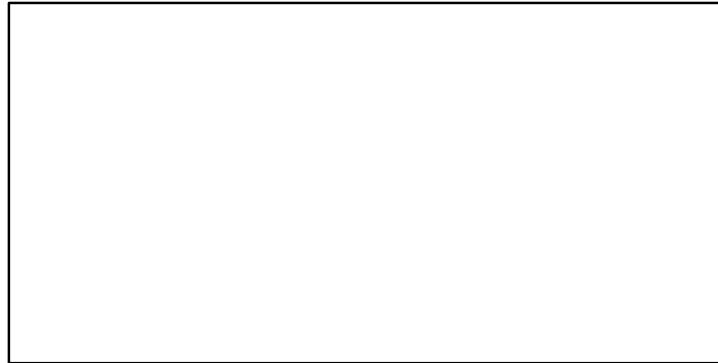
CPUE*



EFFORT*



CdivMSY*



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

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

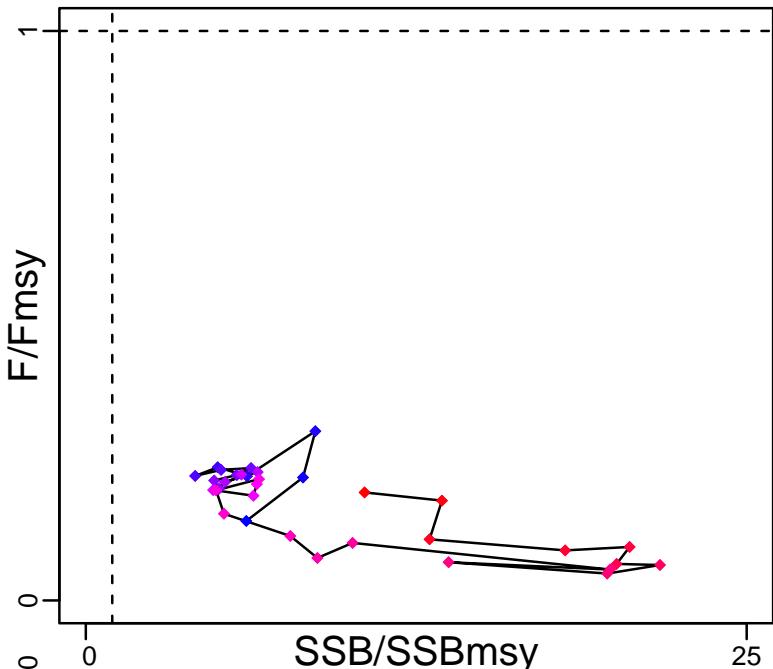
Metadata	
Scientific Name	Farfantepenaeus aztecus
Current Assess ID	SEFSC-BRNSHRIMPGM-1984-2017-SISIMP2021
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	2767
Fmsy	Fmsy-1/yr	2017	9.12
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	2767
Flim	-	-	-
ERlim	-	-	-

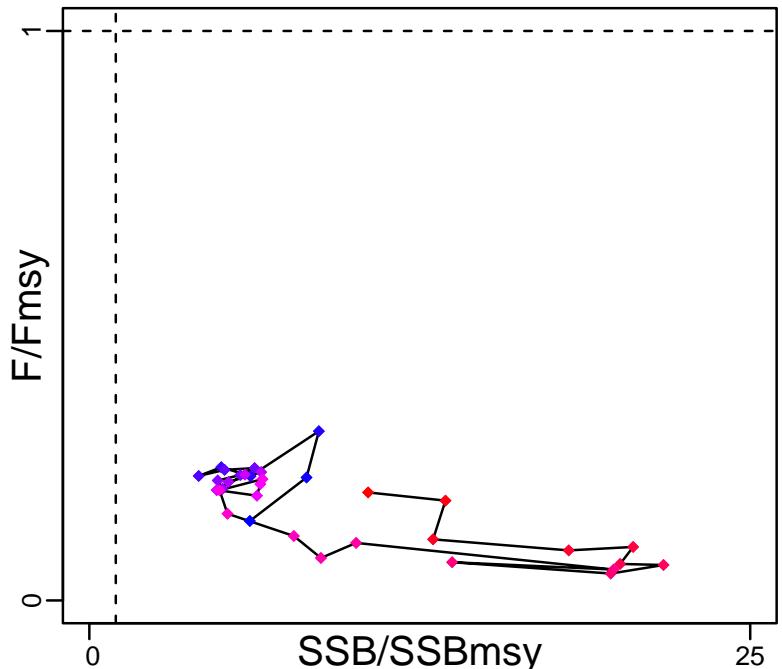
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2017	12,174	-	-	
TN	-	-	-	-	-	
R	R-E00	2017	27,770,500,000	-	-	
F	F-1/yr	2017	1.73	-	-	
ER	ER-ratio	2011	0.147	-	-	
TC	TC-MT	2017	28,631			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	4.4			
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.19			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

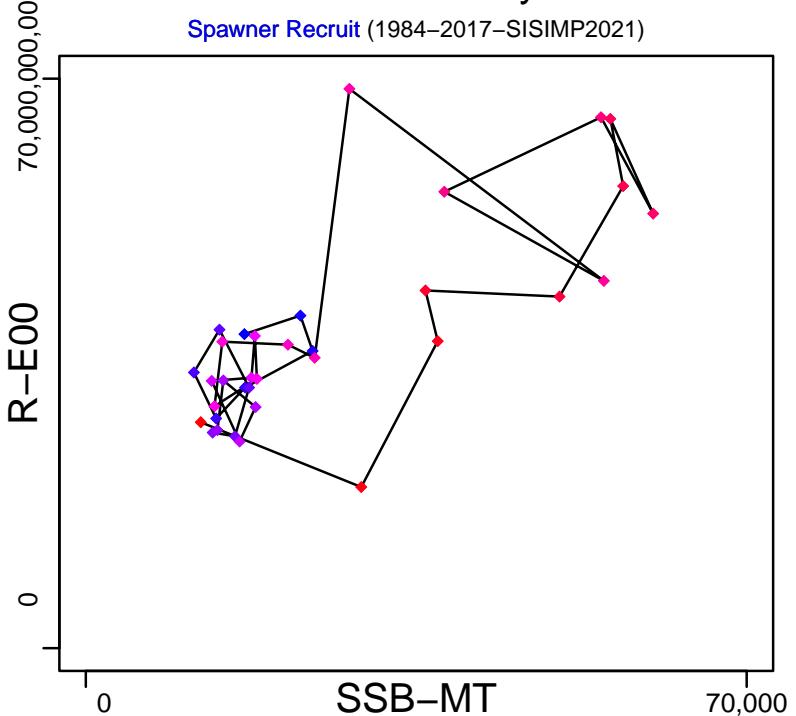
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



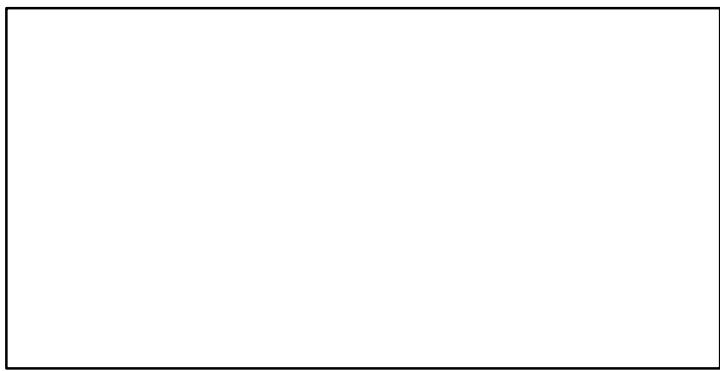
Production*



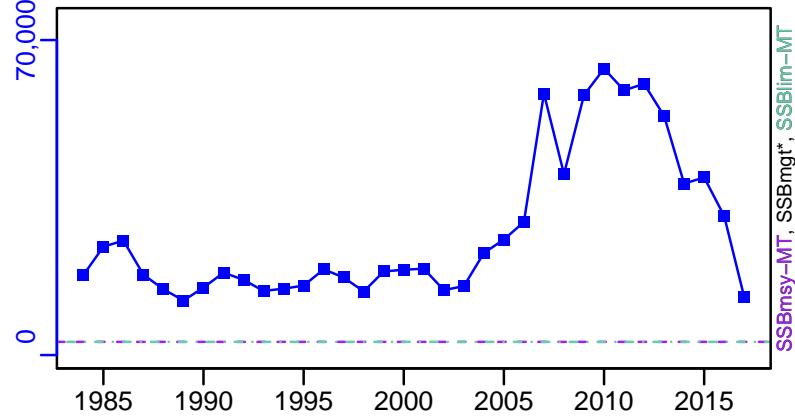
◆ Start Year ◆ End Year * No Data

Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

TB*



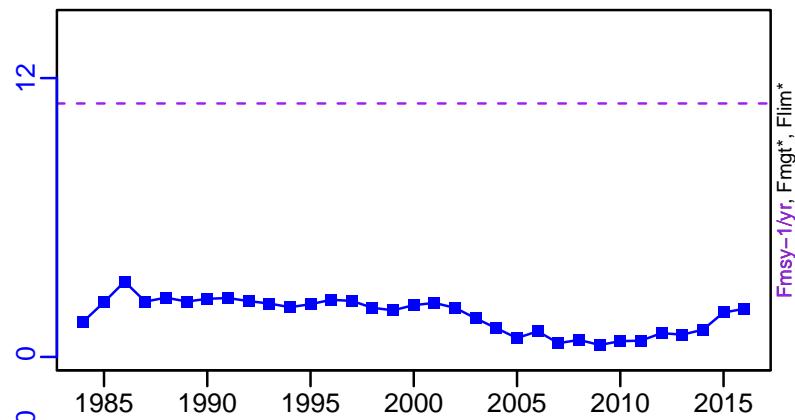
SSB-MT (1984–2017–SISIMP2021)



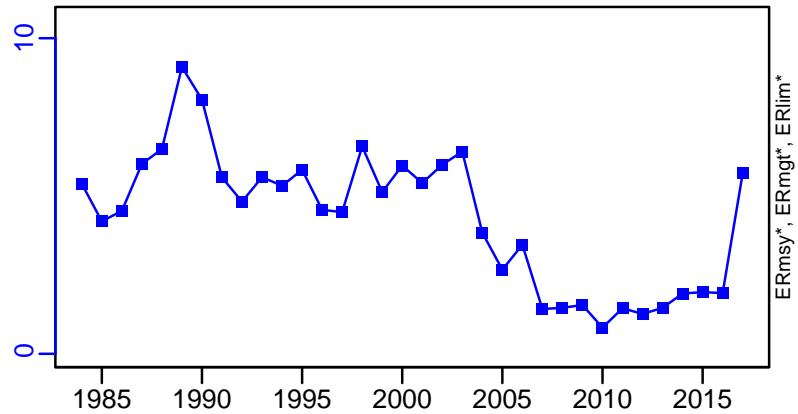
TN *



F-1/yr (1984–2017–SISIMP2021)

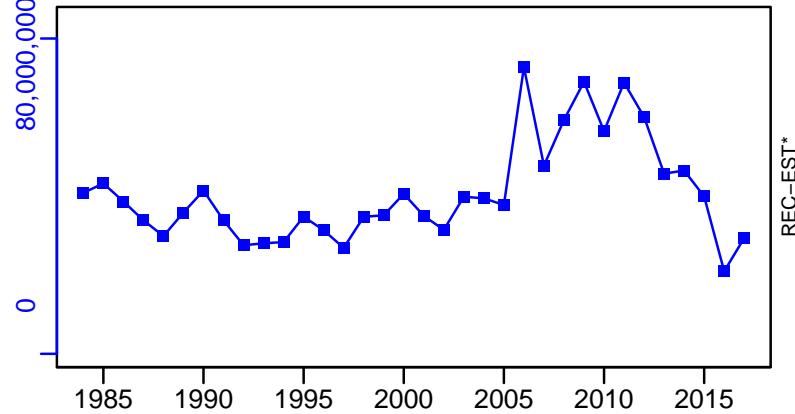


ER-calc-ratio (1984–2017–SISIMP2021)



ERmsy*, ERmg*, ERlim*

R-E00 (1984–2017–SISIMP2021)



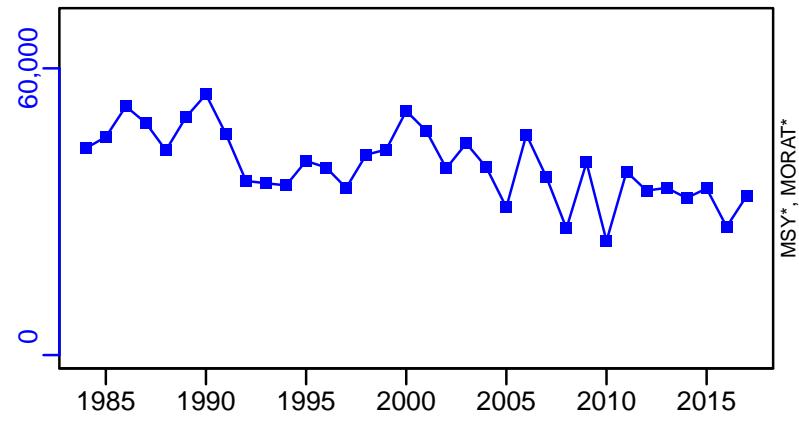
REC-EST*

■ Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - Lim BRP * No Data

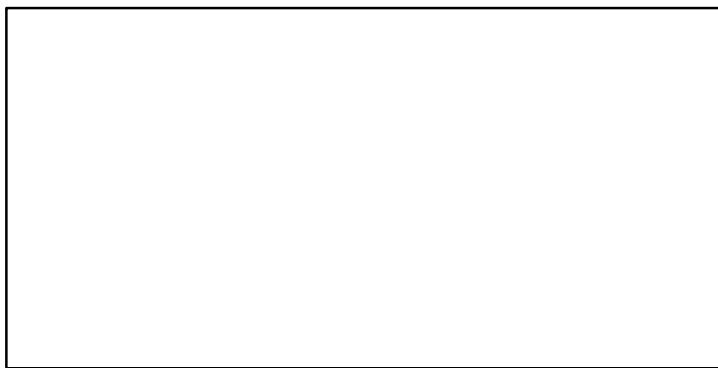
Brown shrimp Gulf of Mexico [BRNSHRIMPGM]

TC-MT, TL*, RecC* (1984–2017–SISIMP2021)

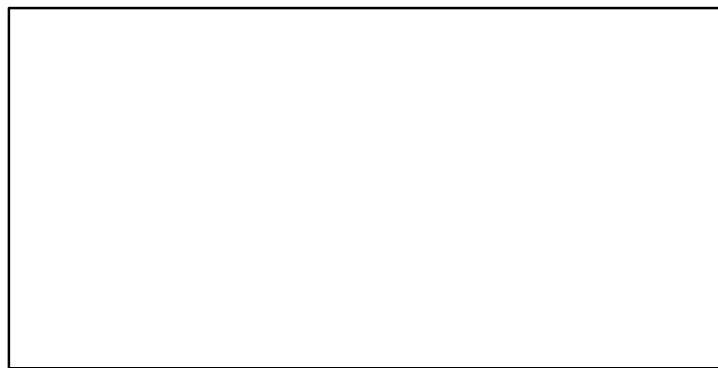
TAC*, Cpair*, Cadv*



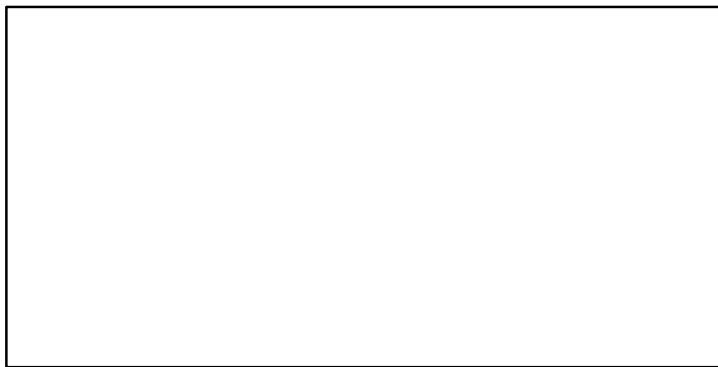
survB*



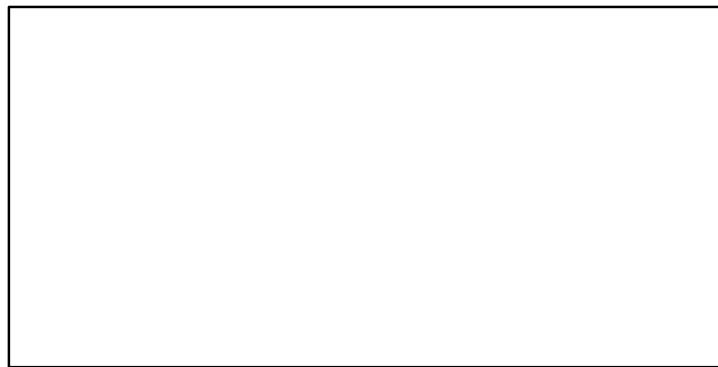
CPUE*



EFFORT*



CdivMSY*



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

Brown tiger shrimp Northern Australia [BTSHRIMPNAUST]

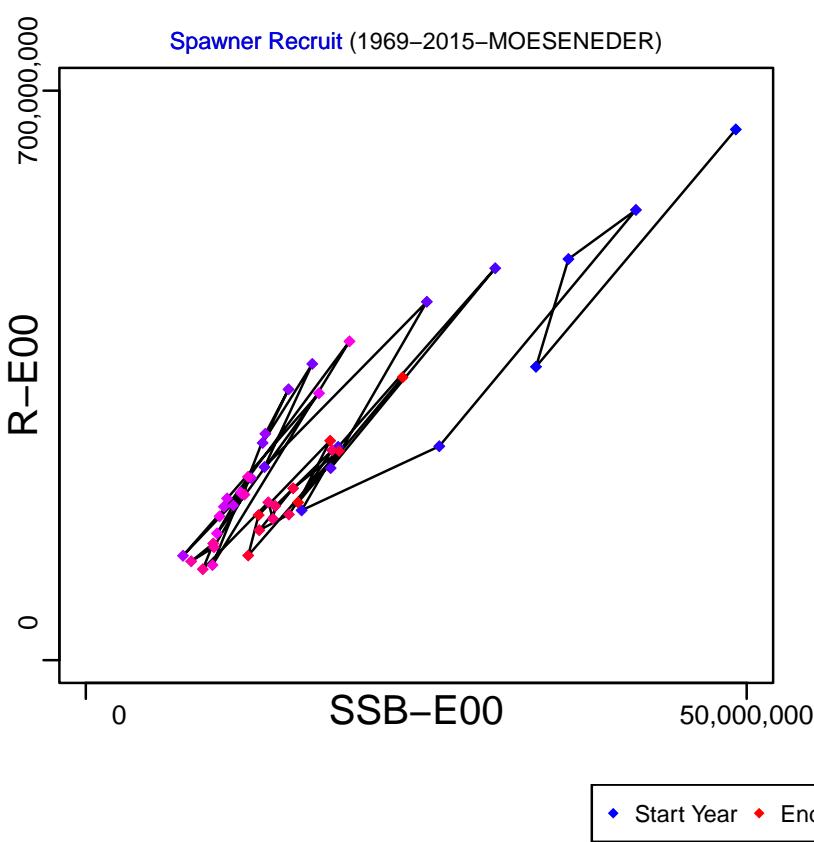
Metadata	
Scientific Name	Penaeus esculentus
Current Assess ID	CSIRO-BTSHRIMPNAUST-1969-2015-MOESENEDER
Area	Northern Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research Organization
Asmts in RAM	2015, 2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00	2015	13,728,752
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-E00	2015	14,765,577
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	1186
M	M-1/yr	2015	2.34
TBlim	-	-	-
SSBlim	SSBlim-E00	2015	6,864,376
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-E00	2015	23,966,420	-	-
TN	-	-	-	-	-
R	R-E00	2015	347,672,000	-	-
F	F-1/yr	2006	0.135	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	763		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00/SSBmsy-E00	2015	1.746		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2015	1.623		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

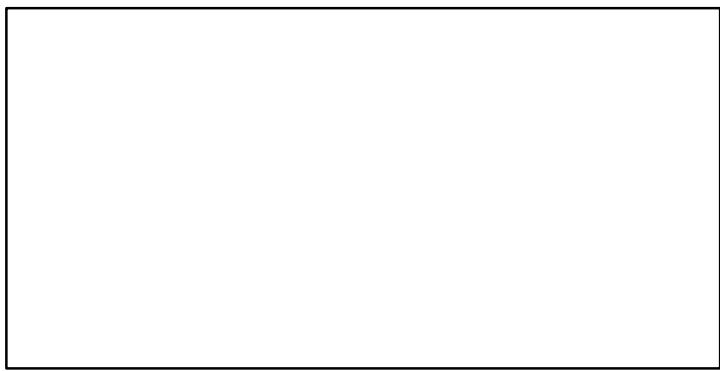
Kobe MSY*

Kobe MGT*

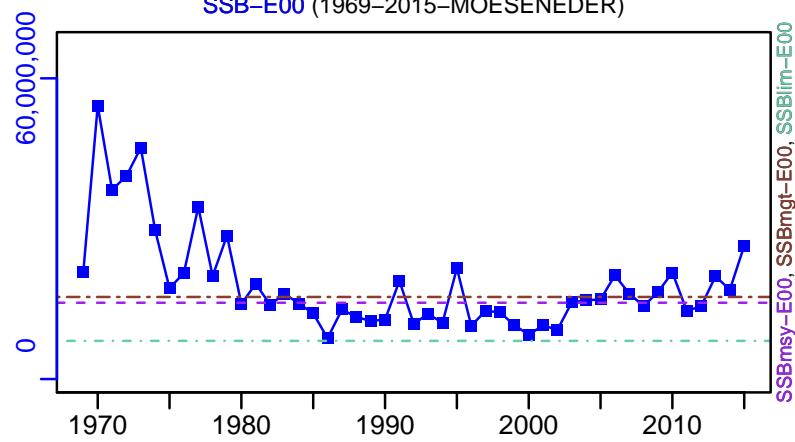


Brown tiger shrimp Northern Australia [BTSHRIMPNAUST]

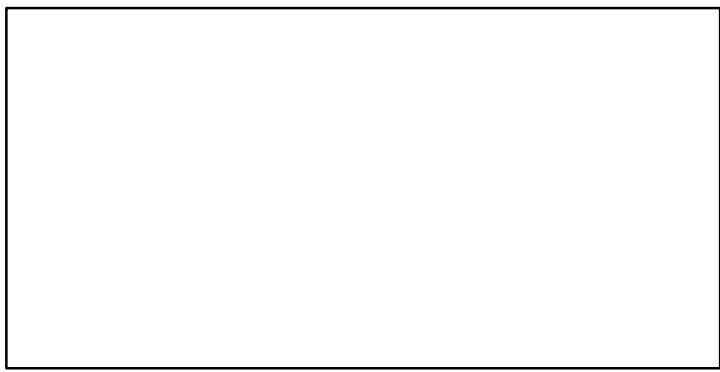
TB*



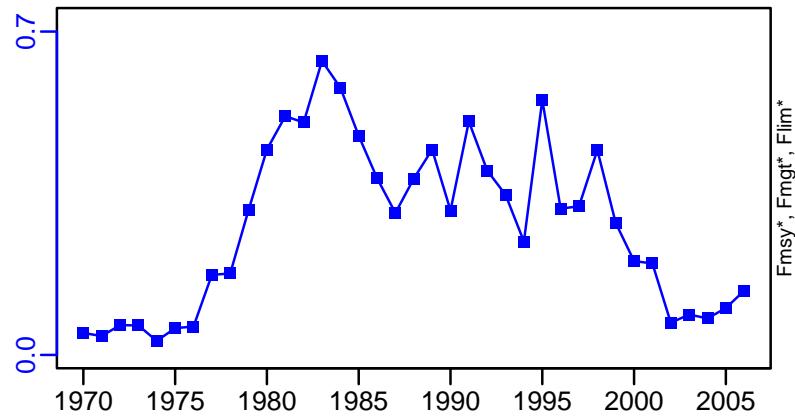
SSB-E00 (1969–2015–MOESENEDER)



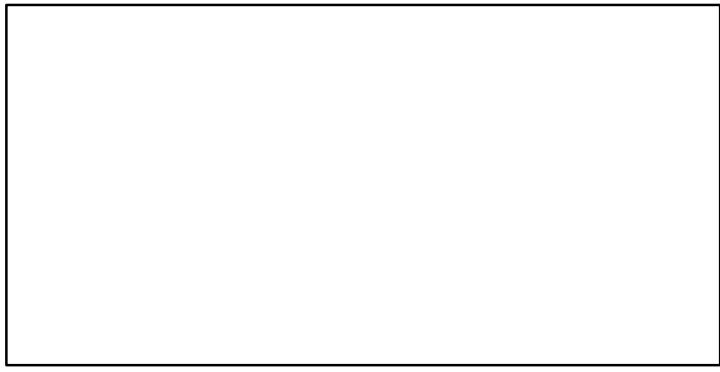
TN *



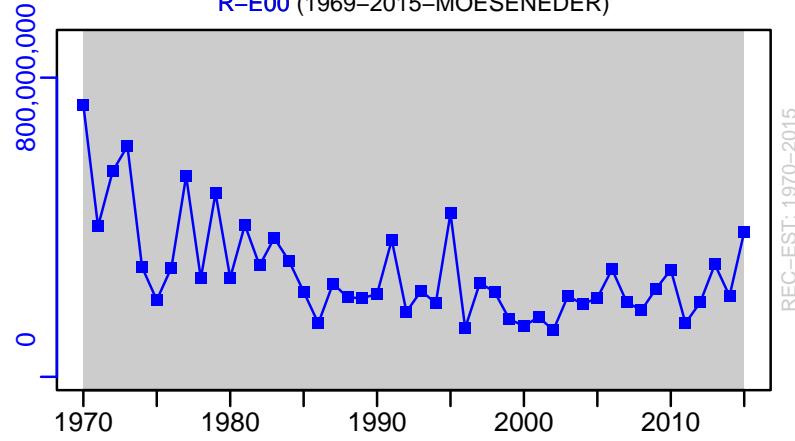
F-1/yr (1970–2006–FULTON)



ER*



R-E00 (1969–2015–MOESENEDER)



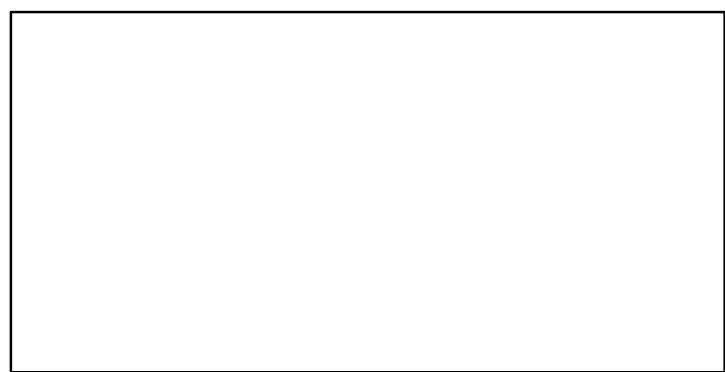
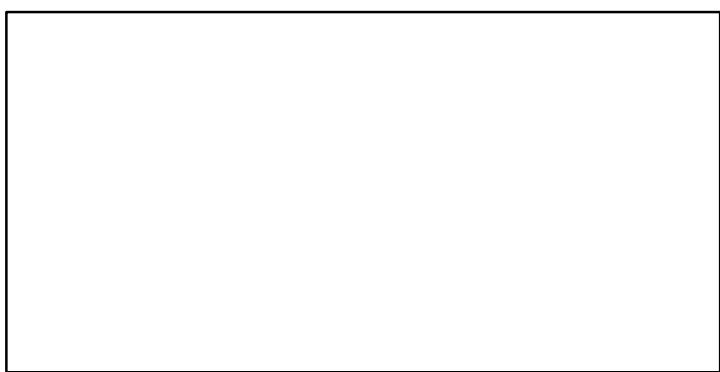
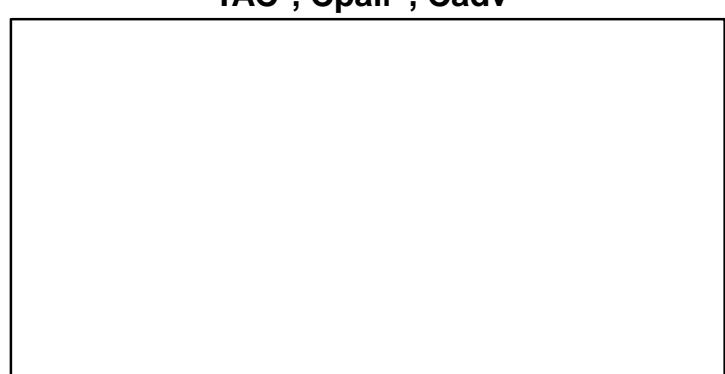
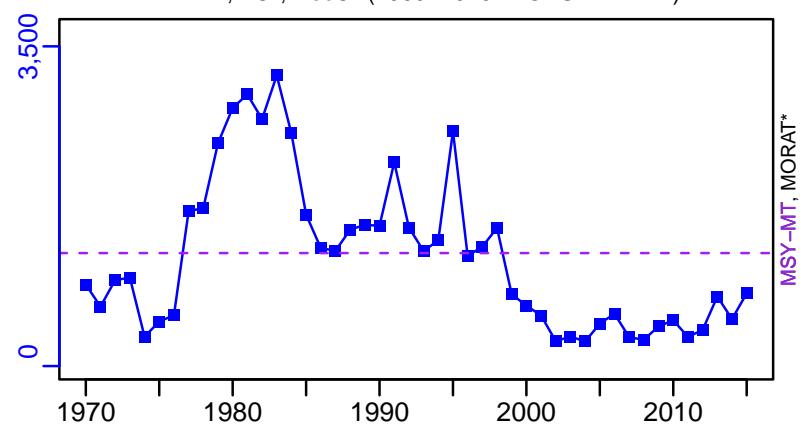
REC-EST: 1970–2015

- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

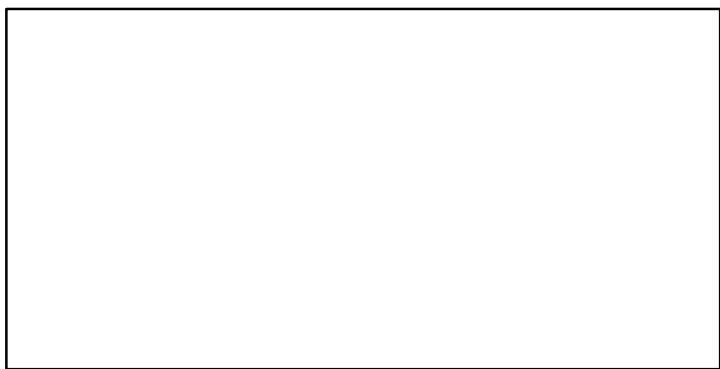
Brown tiger shrimp Northern Australia [BTSHRIMPNAUST]

TL-MT, TC*, RecC* (1969–2015–MOESENEDER)

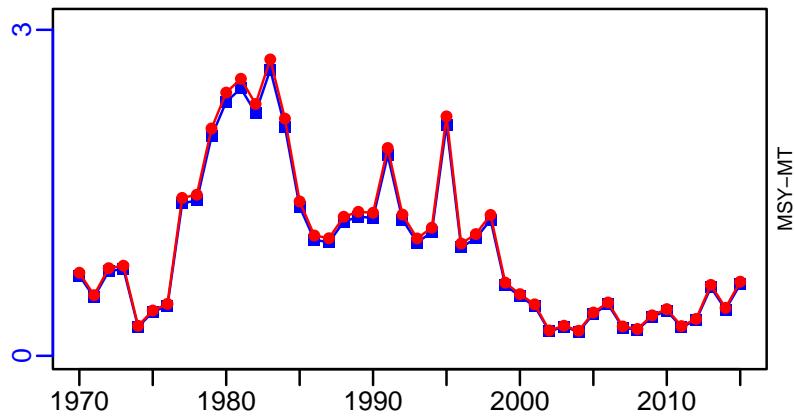
TAC*, Cpair*, Cadv*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1969–2015–MOESENEDER)



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

Coastal shrimp Central West Africa [CSHRIMP CWA]

Metadata	
Scientific Name	Penaeus spp
Current Assess ID	FAO-DR-CSHRIMP CWA-1990-2007-CHING
Area	Central West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2007	6580		
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

Coastal shrimp Central West Africa [CSHRIMPCWA]

TB*



SSB*



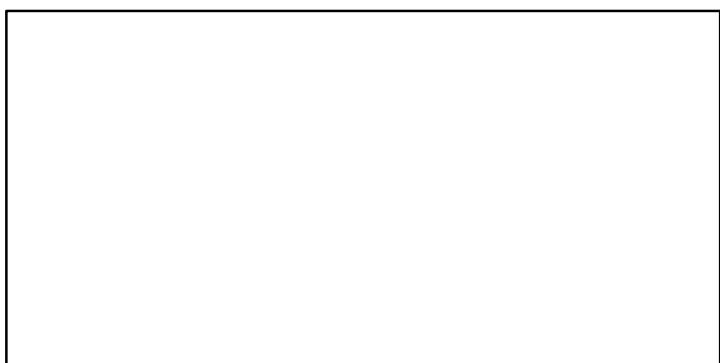
TN *



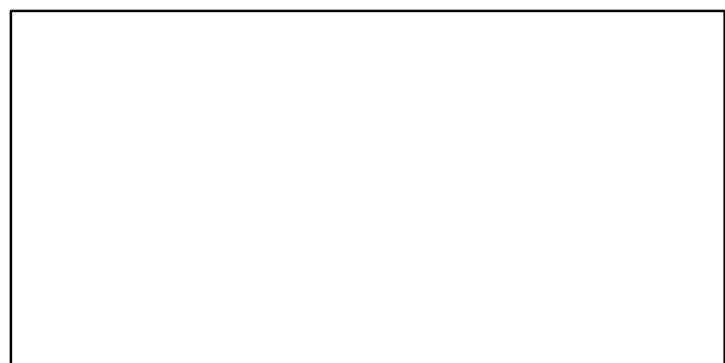
F*



ER*



Recruits*

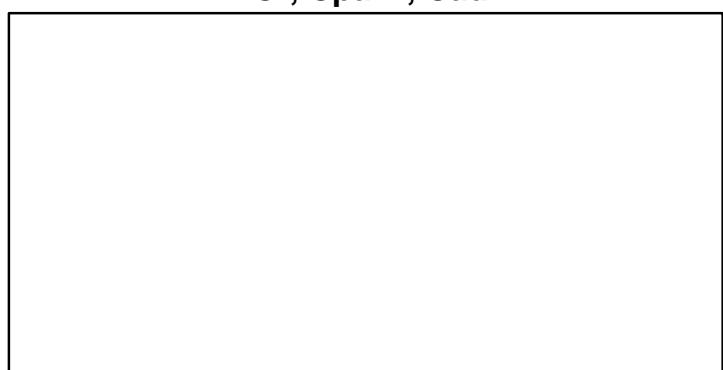
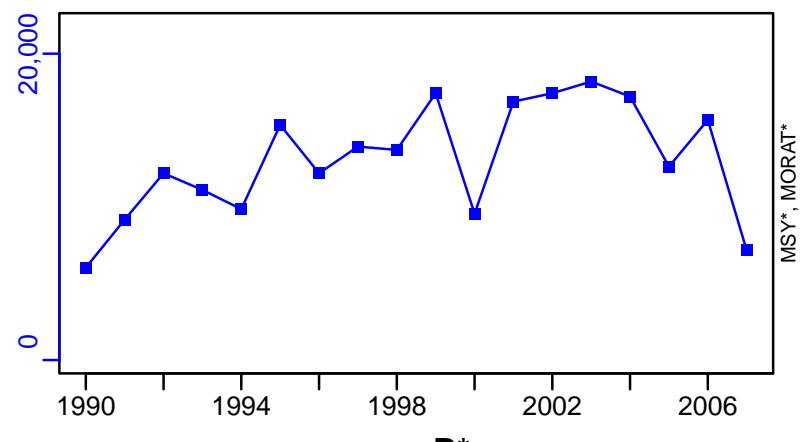


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

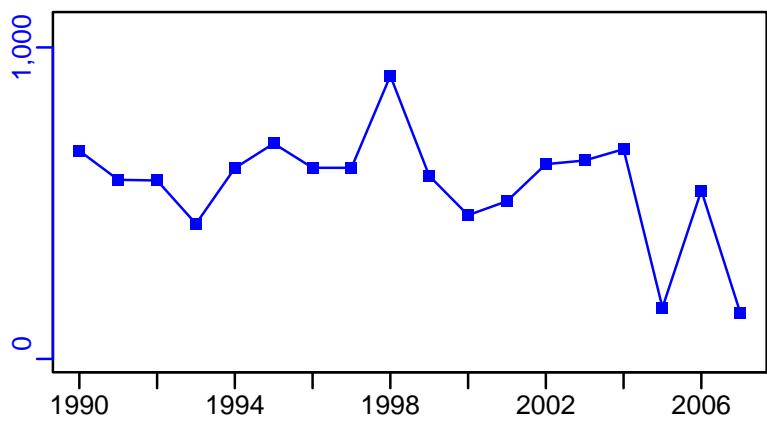
Coastal shrimp Central West Africa [CSHRIMPCWA]

TC-MT, TL*, RecC* (1990–2007-CHING)

TAC*, Cpair*, Cadv*



CPUE-kg/day (1990–2007-CHING)



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

Deep water rose shrimp Central West Africa [DRSHRIMPCWA]

Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	FAO-DR-DRSHRIMPCWA-1990-2007-CHING
Area	Central West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2007	1320		
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

Deep water rose shrimp Central West Africa [DRSHRIMPCWA]

TB*



SSB*



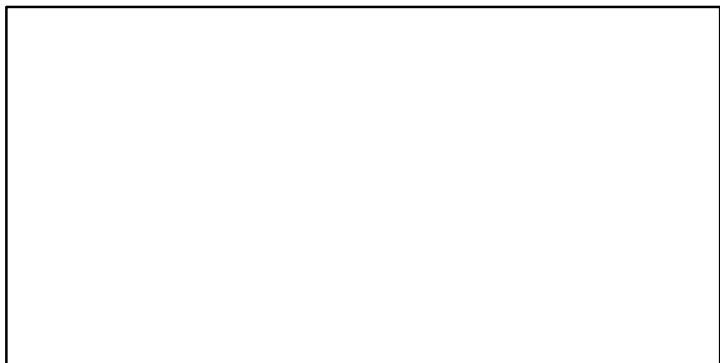
TN *



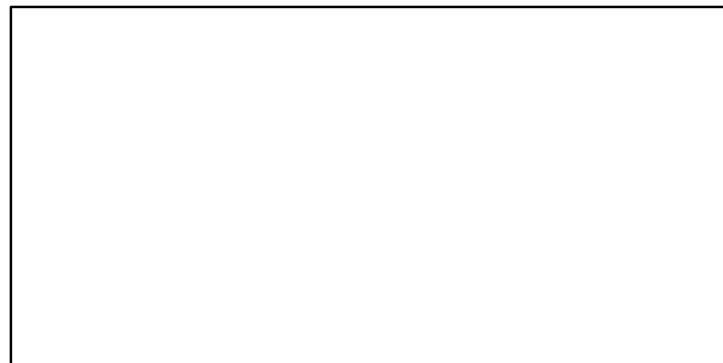
F*



ER*



Recruits*

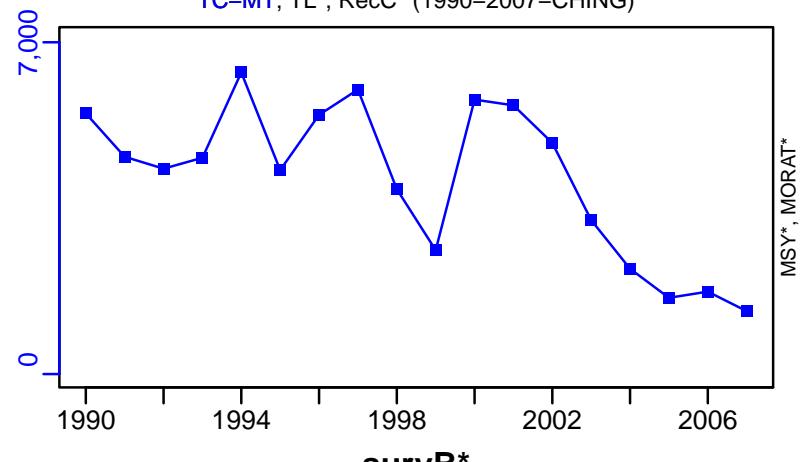


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Deep water rose shrimp Central West Africa [DRSHRIMPCWA]

TC-MT, TL*, RecC* (1990–2007-CHING)

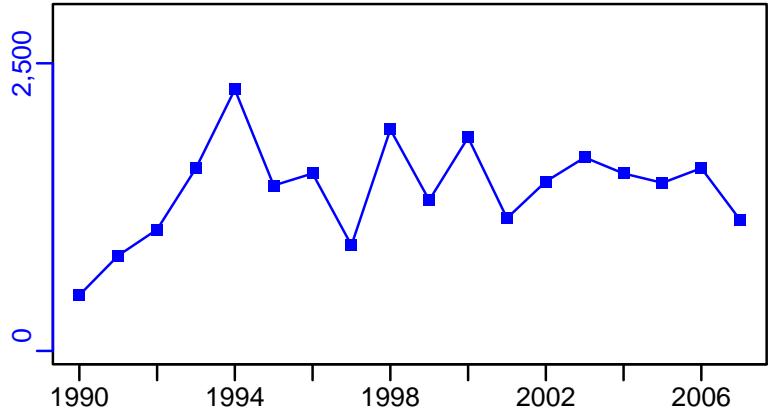
TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE-kg/day (1990–2007-CHING)



EFFORT*

CdivMSY*

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

Giant red shrimp Geographical Sub-Areas 12-16 [GRSHRIMP MEDGSA12-16]

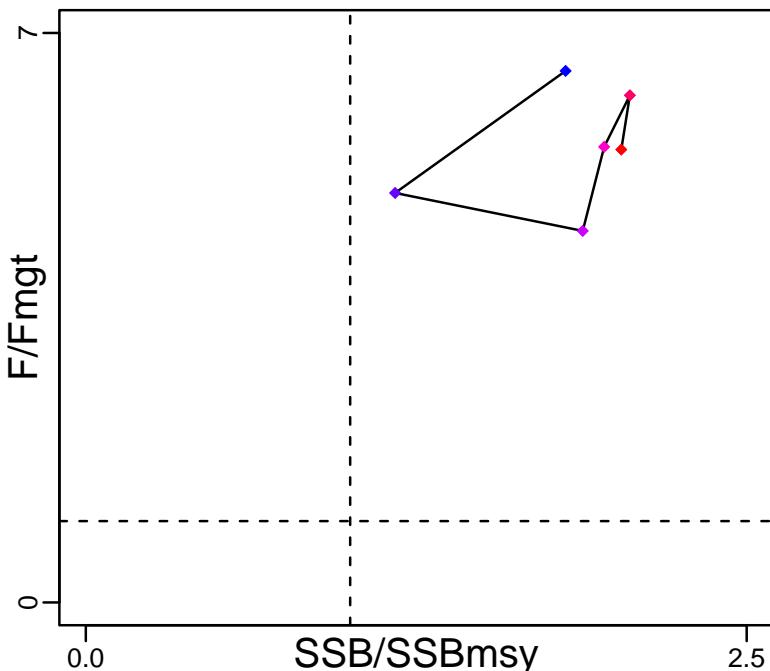
Metadata	
Scientific Name	Aristaeomorpha folacea
Current Assess ID	STECF-GRSHRIMP MEDGSA12-16-2005-2011-OSIO
Area	Geographical Sub-Areas 12-16
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
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	-	-	-

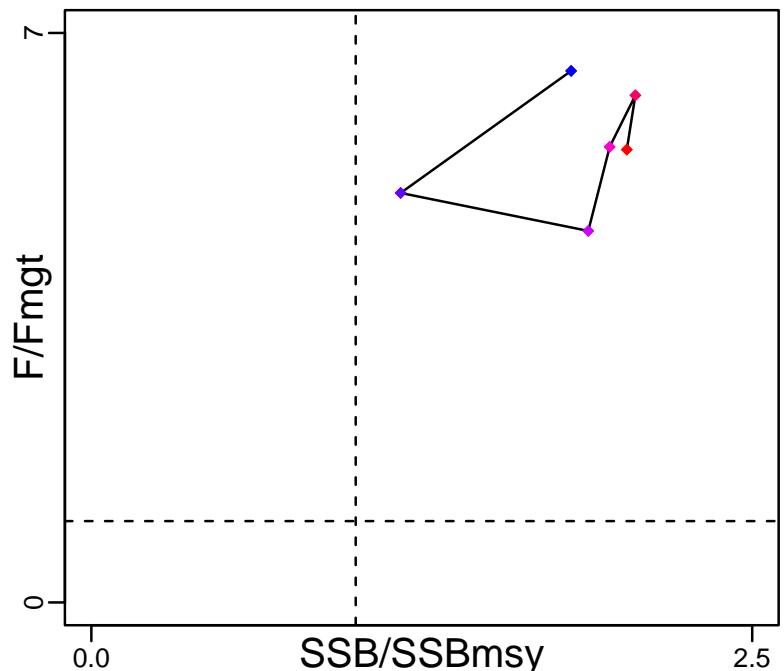
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	1250	-	1+
TN	-	-	-	-	-
R	R-E00	2011	84,400,000	-	-
F	F-1/yr	2011	1.67	-	-
ER	-	-	-	-	-
TC	TC-MT	2011	1590		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-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

Giant red shrimp Geographical Sub-Areas 12–16 [GRSHRIMP MEDGSA12–16]

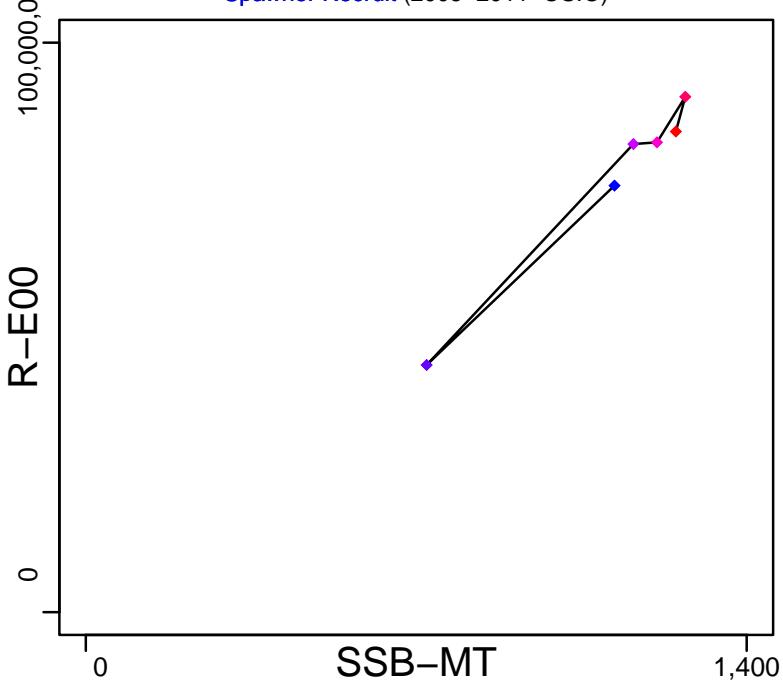
Kobe MSYpref (2005–2011–OSIO)



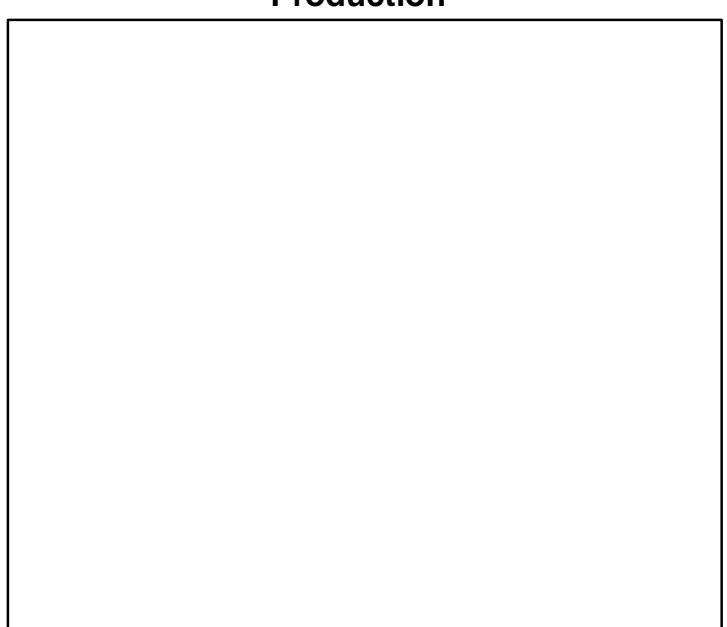
Kobe MGTpref (2005–2011–OSIO)



Spawner Recruit (2005–2011–OSIO)



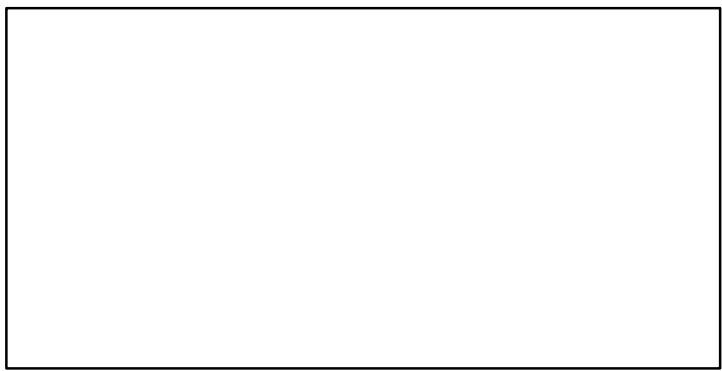
Production*



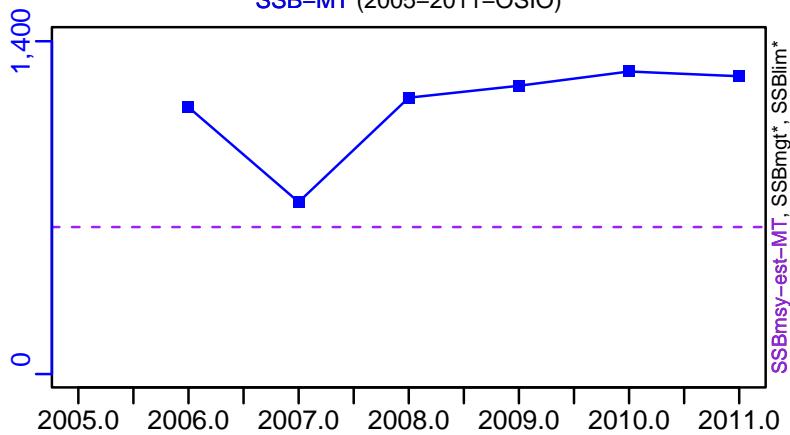
◆ Start Year ◆ End Year * No Data

Giant red shrimp Geographical Sub-Areas 12–16 [GRSHRIMP MEDGSA12–16]

TB*



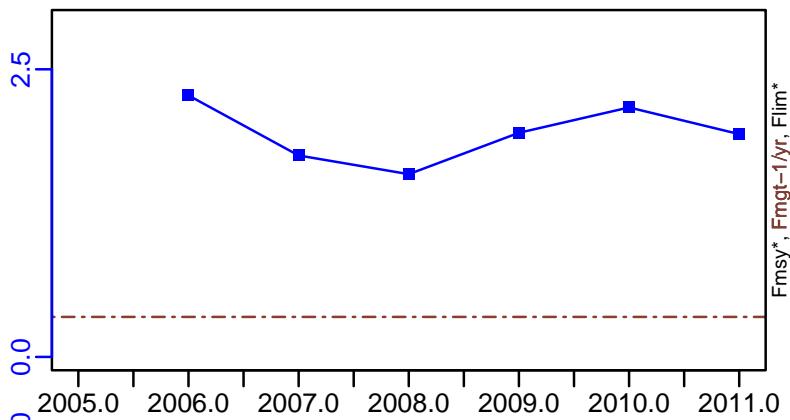
SSB-MT (2005–2011–OSIO)



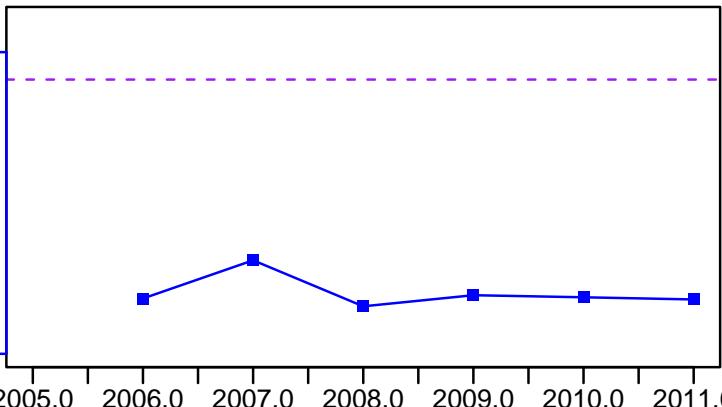
TN *



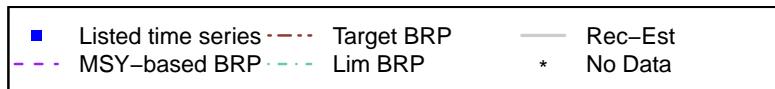
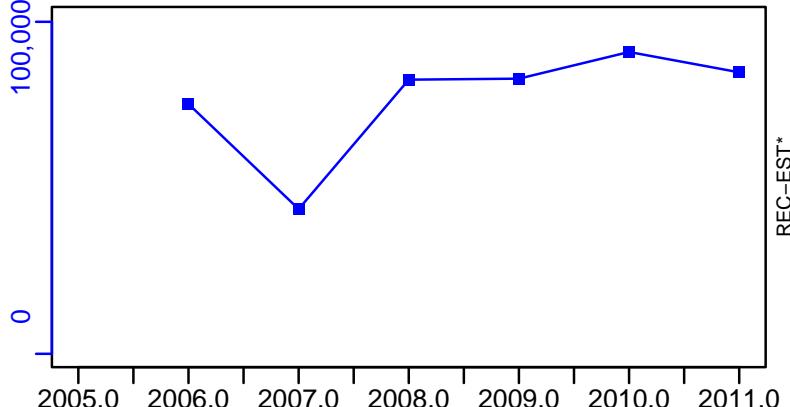
F-1/yr (2005–2011–OSIO)



ER-calc-ratio (2005–2011–OSIO)



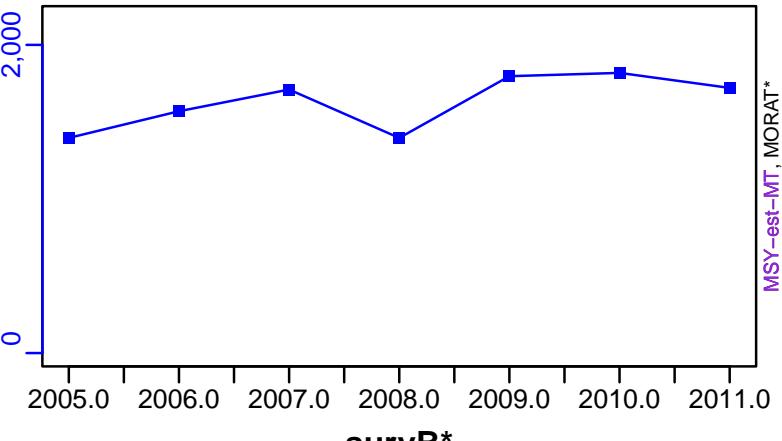
R-E00 (2005–2011–OSIO)



Giant red shrimp Geographical Sub-Areas 12–16 [GRSHRIMP MEDGSA12–16]

TC-MT, TL*, RecC* (2005–2011–OSIO)

TAC*, Cpair*, Cadv*



MSY-est-MT, MORAT*

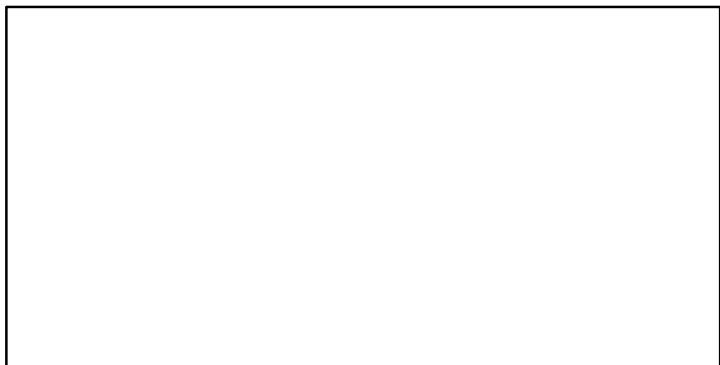
survB*



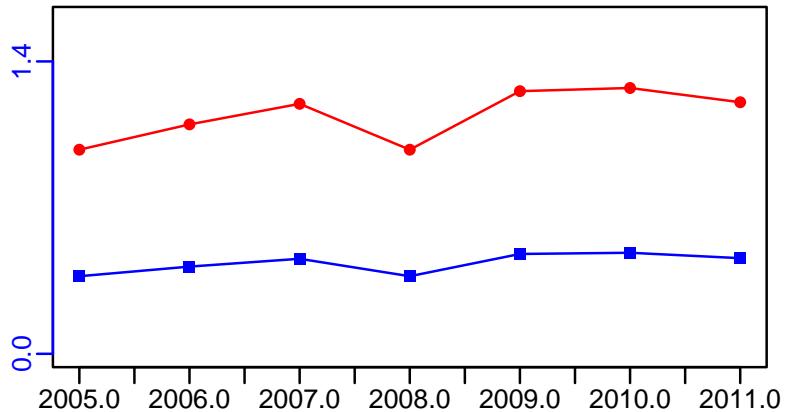
CPUE*



EFFORT*



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



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

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

Metadata	
Scientific Name	Aristaeomorpha foliacea
Current Assess ID	STECF-GRSHRIMP MED GSA 18-19-2008-2014-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

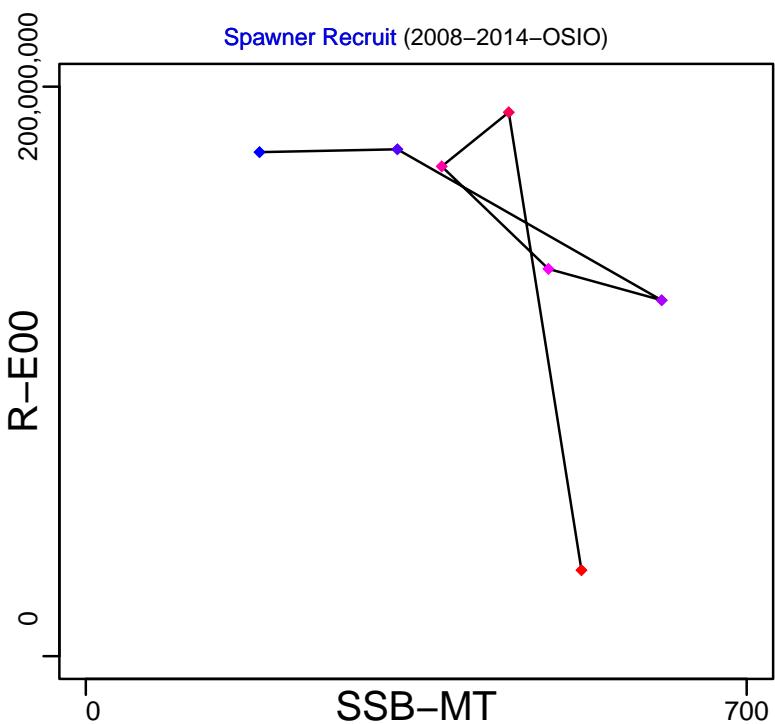
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2014	0.42
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-	-	-
TC	TC-MT	2014	328		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	1.102		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit (2008–2014–OSIO)



Production*

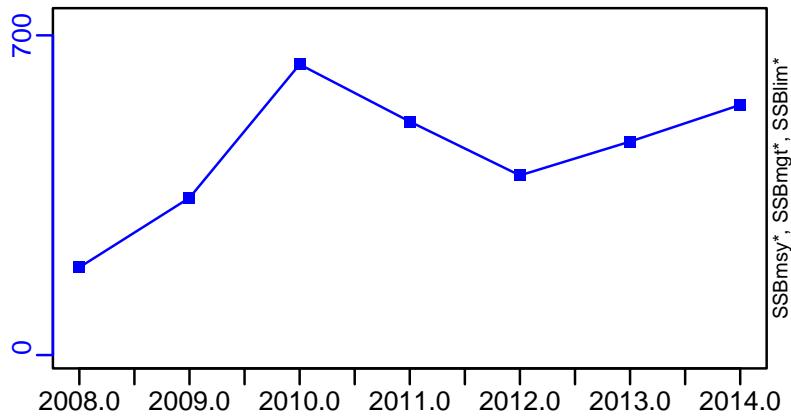
◆ Start Year ◆ End Year * No Data

Giant red shrimp South Adriatic Sea and West Ionian Sea (GSA 18,19) [GRSHRIMP MED GSA 18–19]

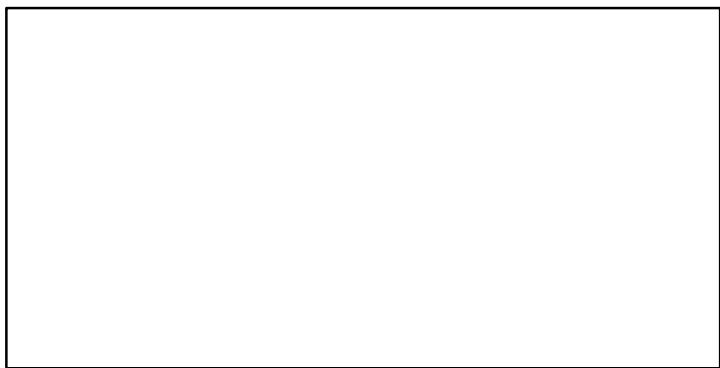
TB*



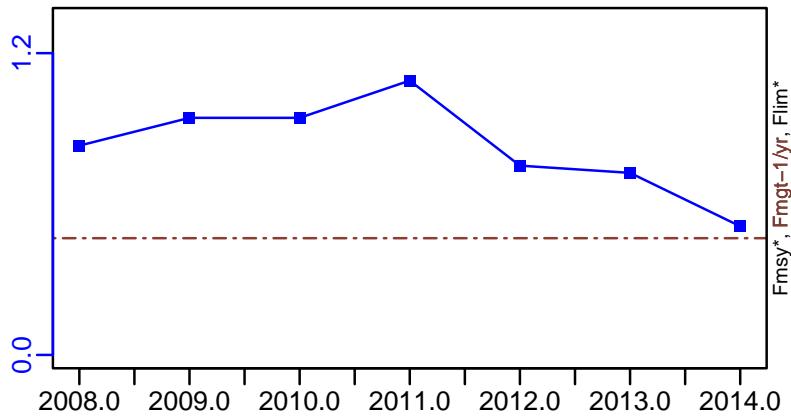
SSB-MT (2008–2014–OSIO)



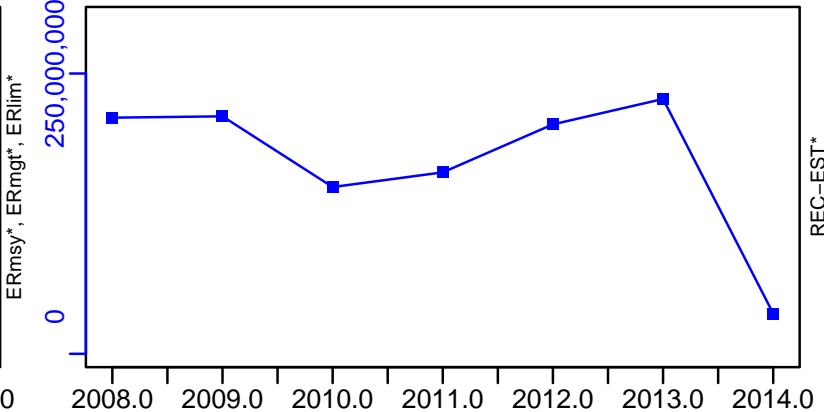
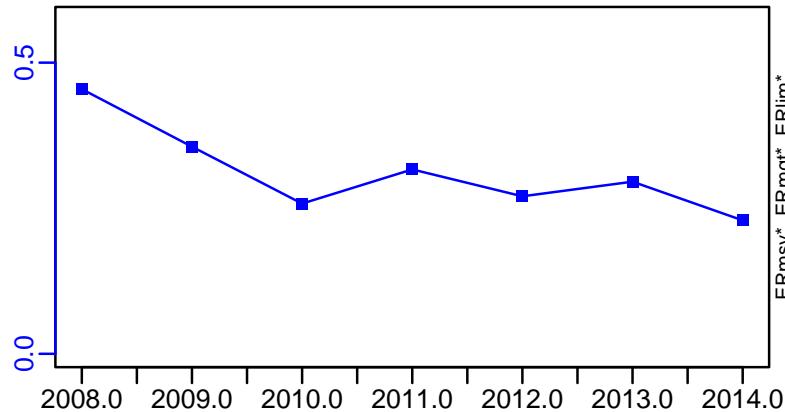
TN *



F-1/yr (2008–2014–OSIO)



ER-calc-ratio (2008–2014–OSIO)

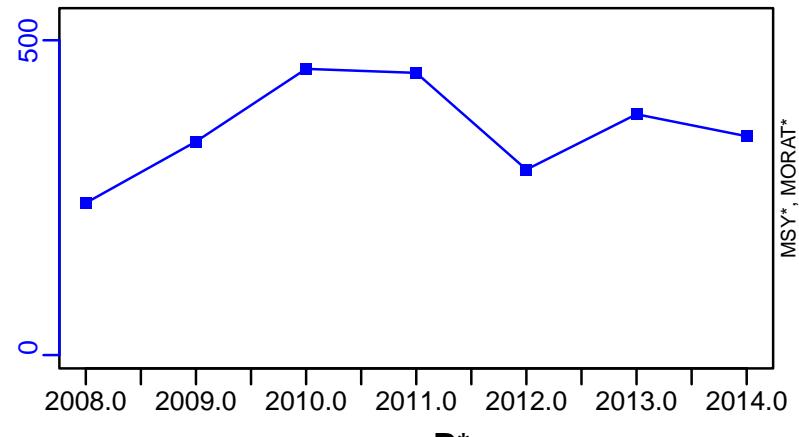


- Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - - Lim BRP * No Data

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*



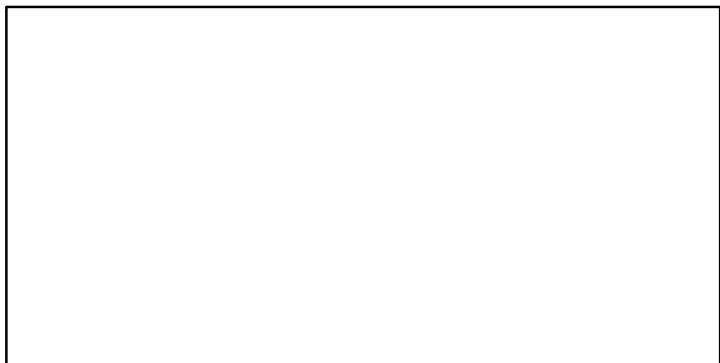
survB*



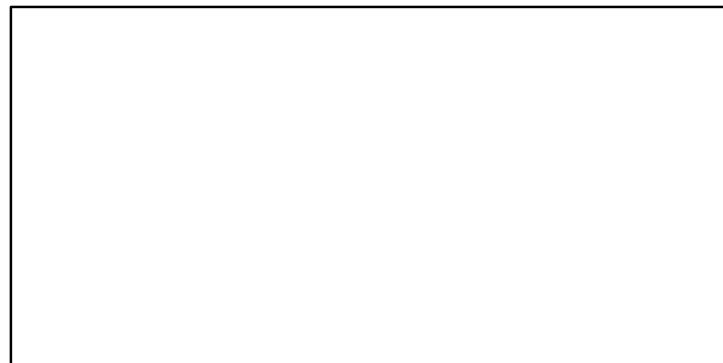
CPUE*



EFFORT*



CdivMSY*



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

Giant red shrimp Geographical Sub-Areas 9-11 [GRSHRIMP MEDGSA9-11]

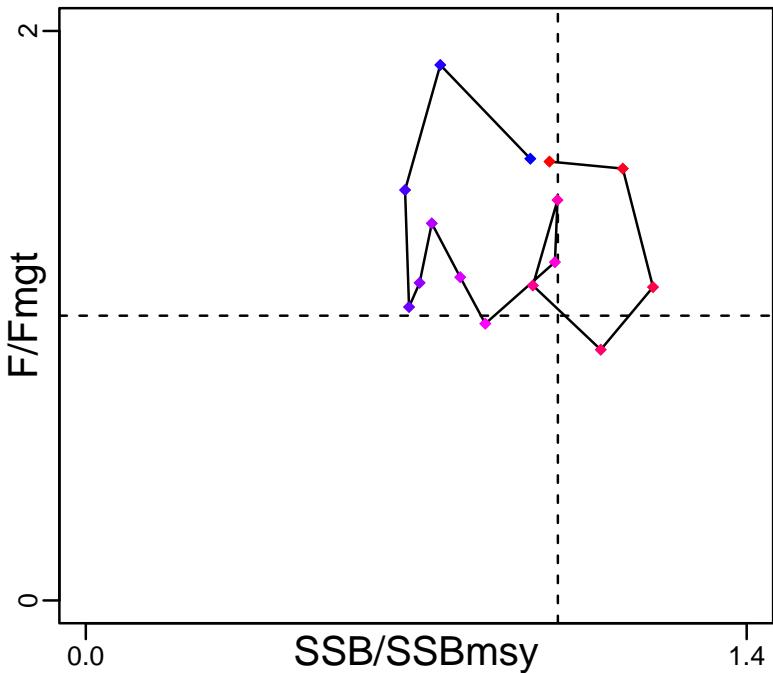
Metadata	
Scientific Name	Aristaeomorpha folacea
Current Assess ID	STECF-GRSHRIMP MEDGSA9-11-2005-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 9-11
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.476
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

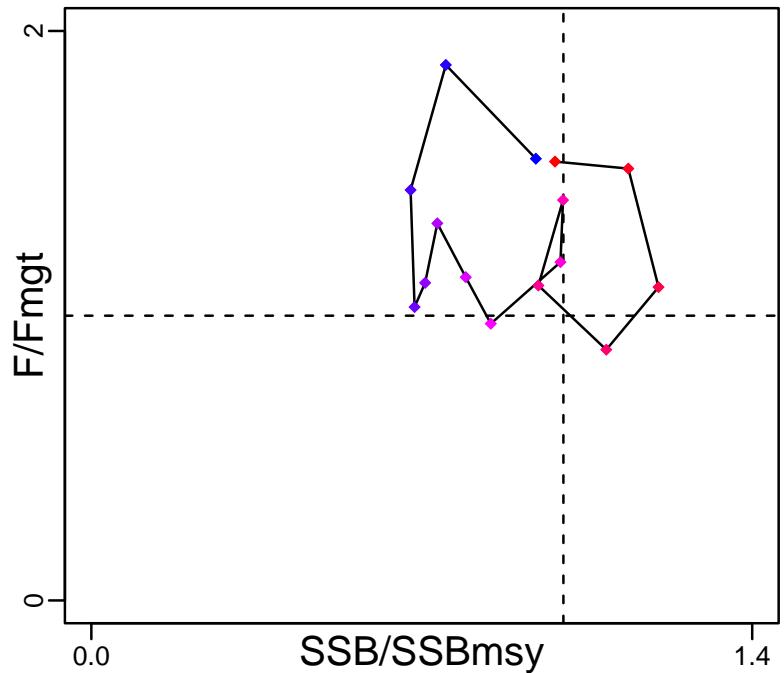
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	716	-	-
TN	-	-	-	-	-
R	R-E00	2019	279,817,380	-	-
F	F-1/yr	2019	0.734	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	571		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.541		
ER/ERmgt	-	-	-		

Giant red shrimp Geographical Sub-Areas 9–11 [GRSHRIMP MEDGSA9–11]

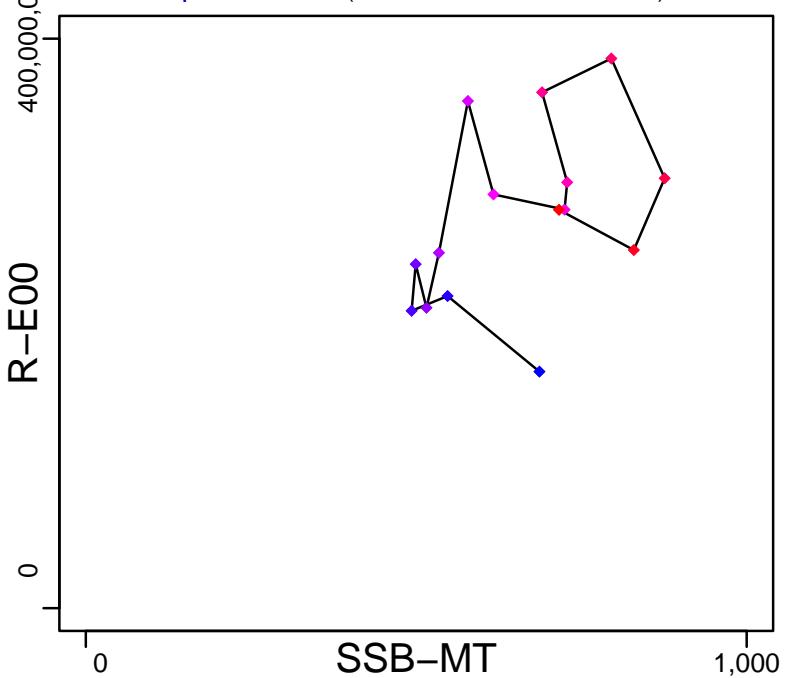
Kobe MSYpref (2005–2019–MEDIMP2021–2)



Kobe MGTpref (2005–2019–MEDIMP2021–2)



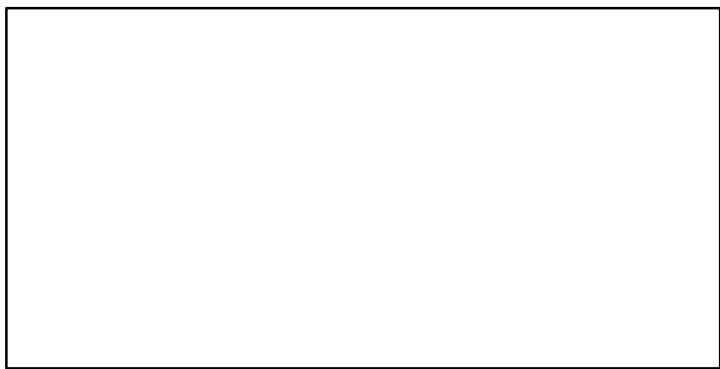
Spawner Recruit (2005–2019–MEDIMP2021–2)



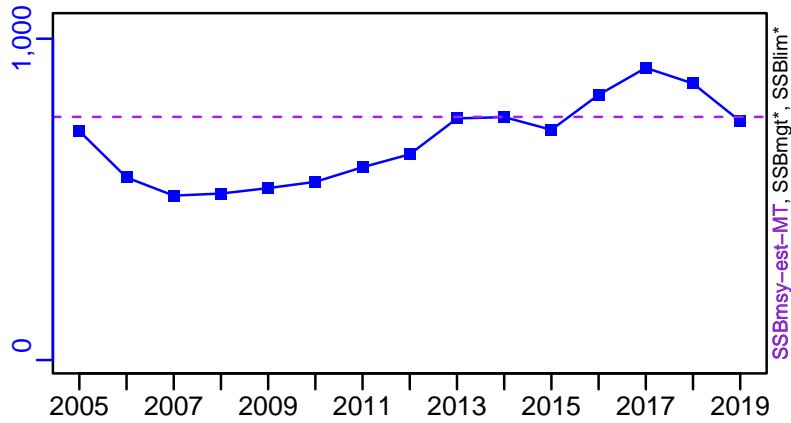
◆ Start Year ◆ End Year * No Data

Giant red shrimp Geographical Sub-Areas 9–11 [GRSHRIMP MEDGSA9–11]

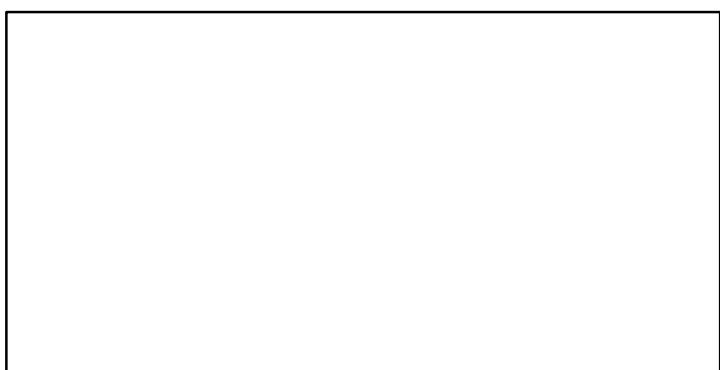
TB*



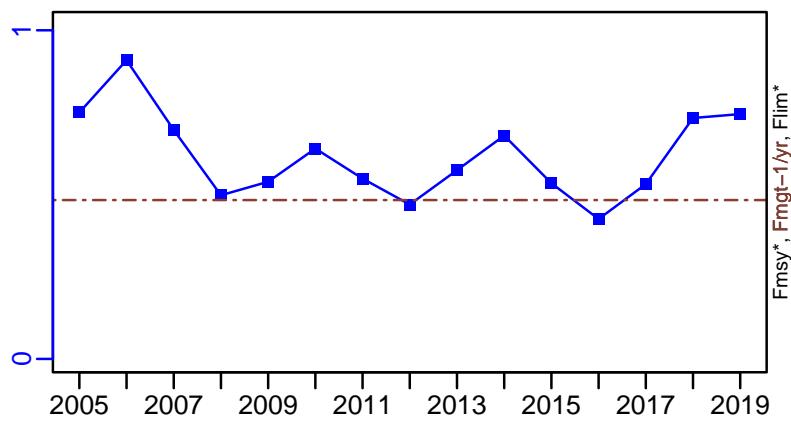
SSB-MT (2005–2019–MEDIMP2021–2)



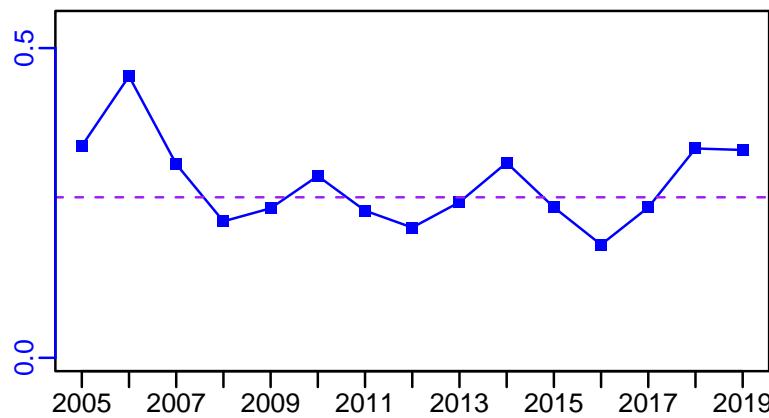
TN *



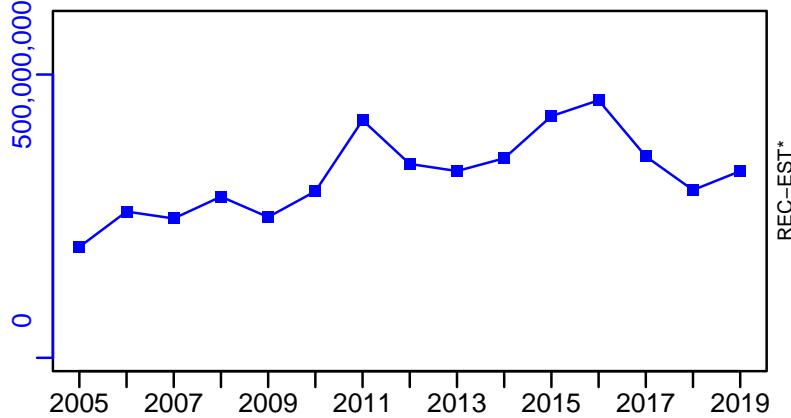
F-1/yr (2005–2019–MEDIMP2021–2)



ER-calc-ratio (2005–2019–MEDIMP2021–2)



R-E00 (2005–2019–MEDIMP2021–2)

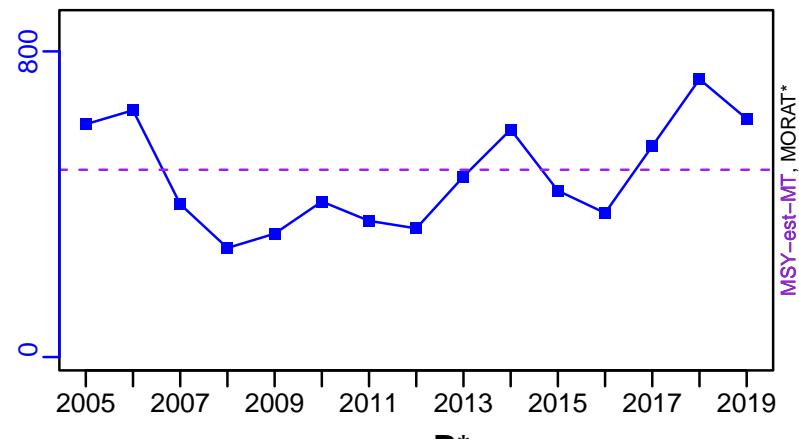


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	— Lim BRP	* No Data

Giant red shrimp Geographical Sub-Areas 9–11 [GRSHRIMP MEDGSA9–11]

TC–MT, TL*, RecC* (2005–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



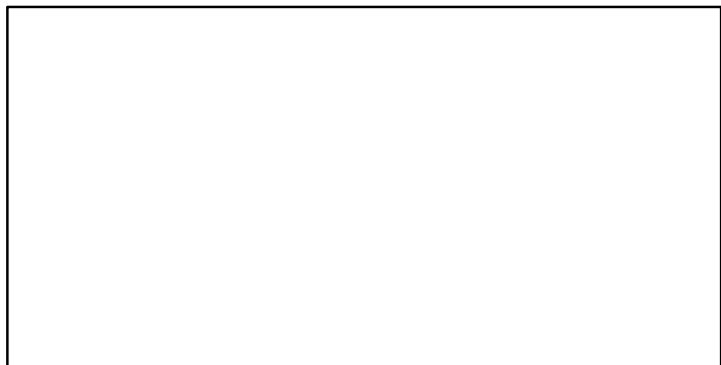
survB*



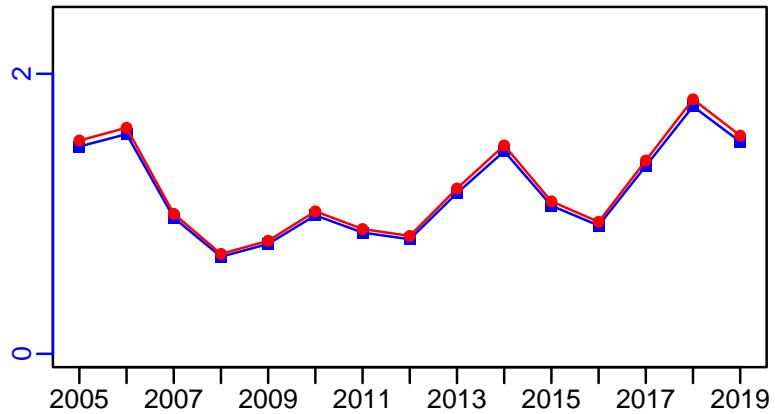
CPUE*



EFFORT*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (2005–2019–MEDIMP2021–2)



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

Grooved tiger prawn Northern Australia [GTPRAWNNAUST]

Metadata	
Scientific Name	Penaeus semisulcatus
Current Assess ID	CSIRO-GTPRAWNNAUST-1969-2015-MOESENEDER
Area	Northern Australia
Management Authority	Australian Fisheries Management Authority, Australia national management
Assessor	Commonwealth Scientific and Industrial Research Organization
Asmts in RAM	2015, 2006

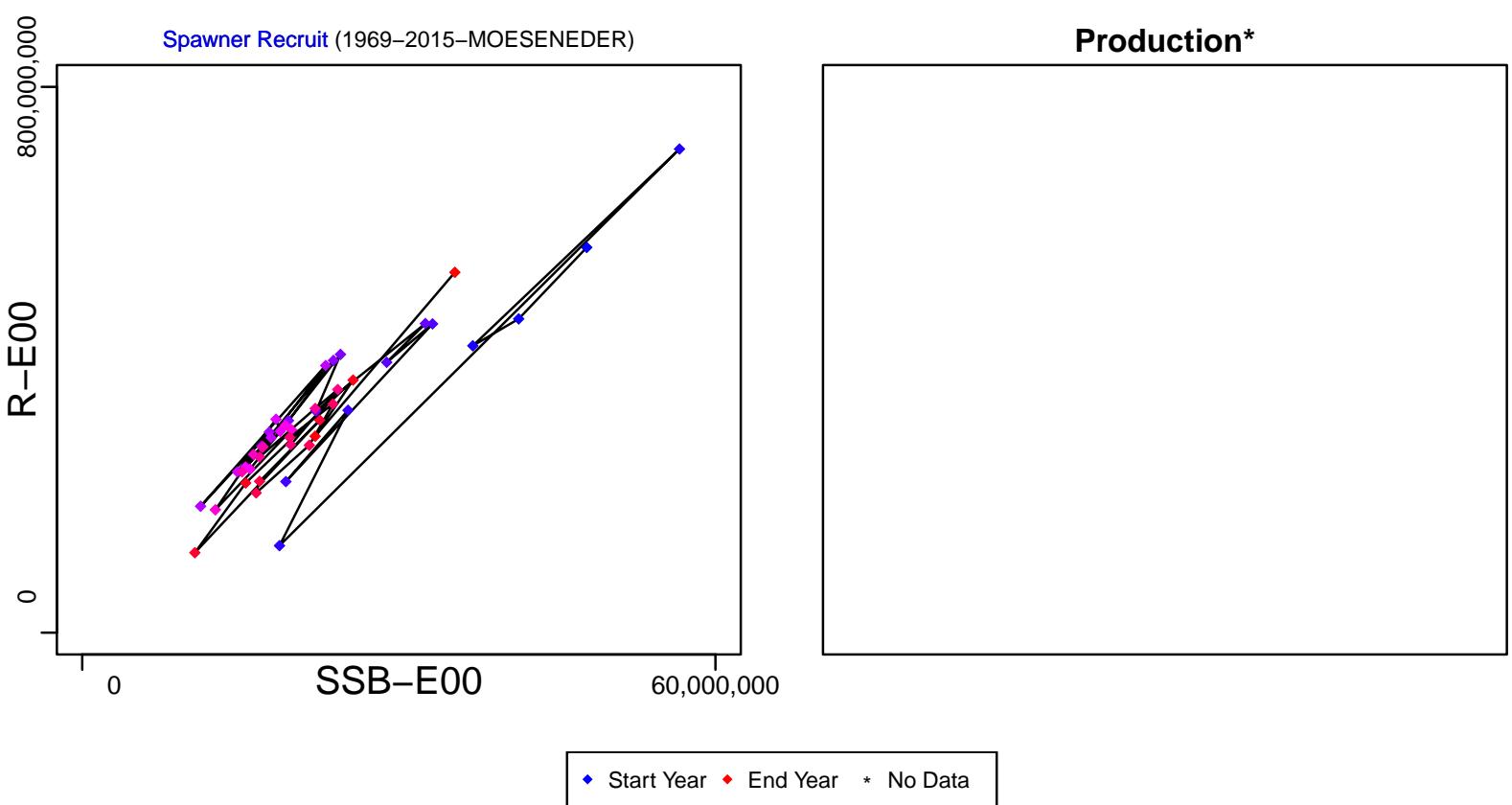
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00	2015	19,080,680
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-E00	2015	20,663,682
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	1605
M	M-1/yr	2015	2.34
TBlim	-	-	-
SSBlim	SSBlim-E00	2015	9,540,340
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-E00	2015	35,309,530	-	-	
TN	-	-	-	-	-	
R	R-E00	2015	528,150,000	-	-	
F	F-1/yr	2006	0.493	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2015	2399			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-E00/SSBmsy-E00	2015	1.851			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2015	1.709			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Grooved tiger prawn Northern Australia [GTPRAWNNAUST]

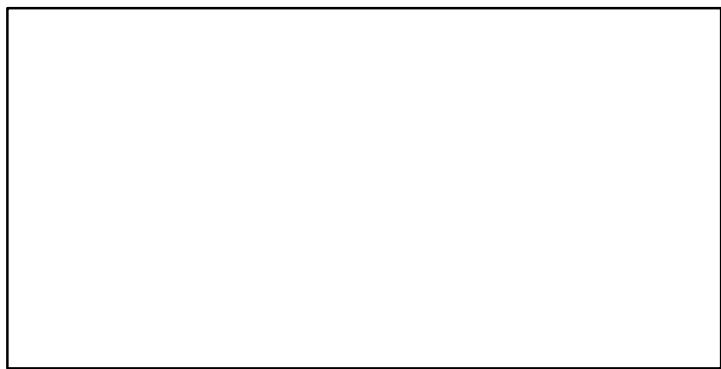
Kobe MSY*

Kobe MGT*

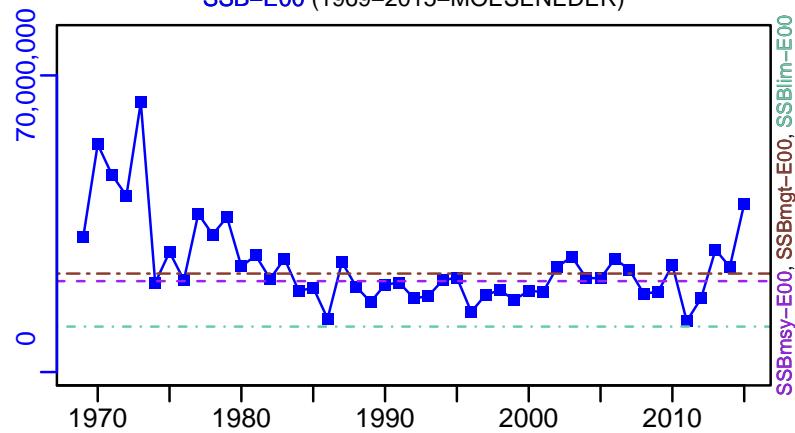


Grooved tiger prawn Northern Australia [GTPRAWNNAUST]

TB*



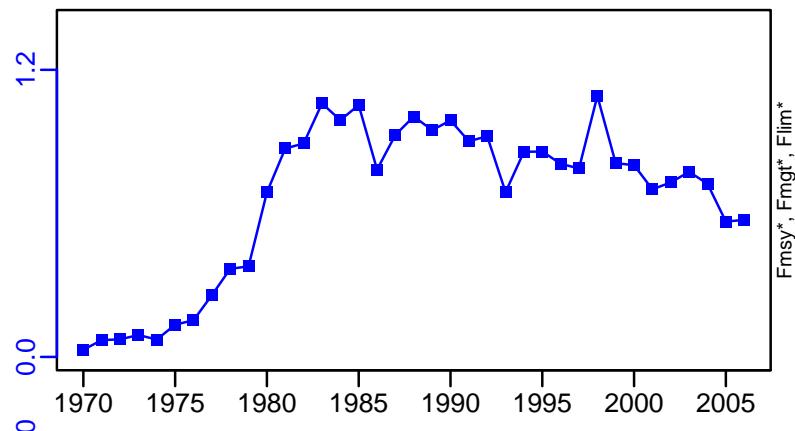
SSB-E00 (1969–2015–MOESENEDER)



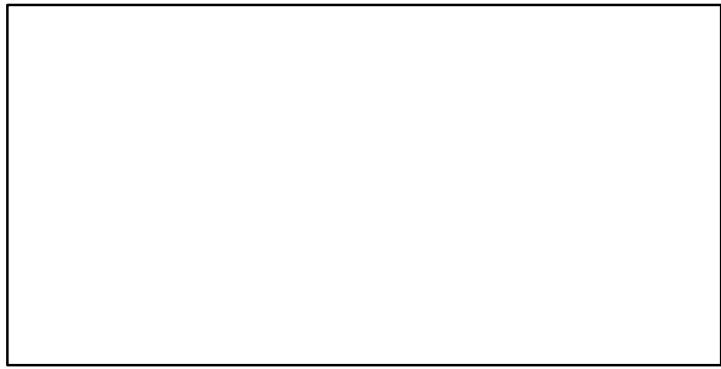
TN *



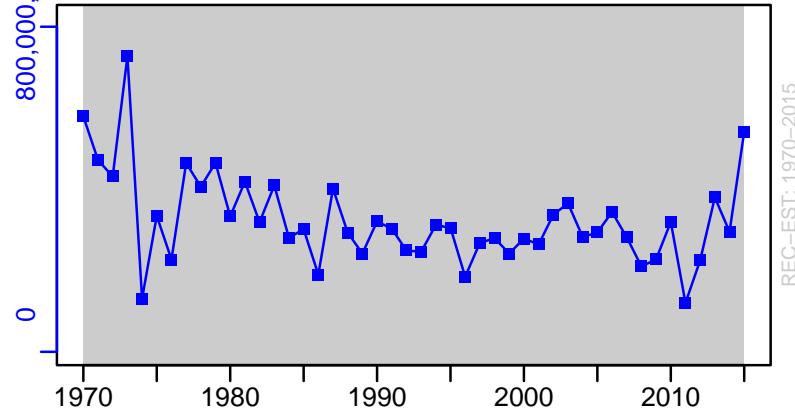
F-1/yr (1970–2006–FULTON)



ER*



R-E00 (1969–2015–MOESENEDER)



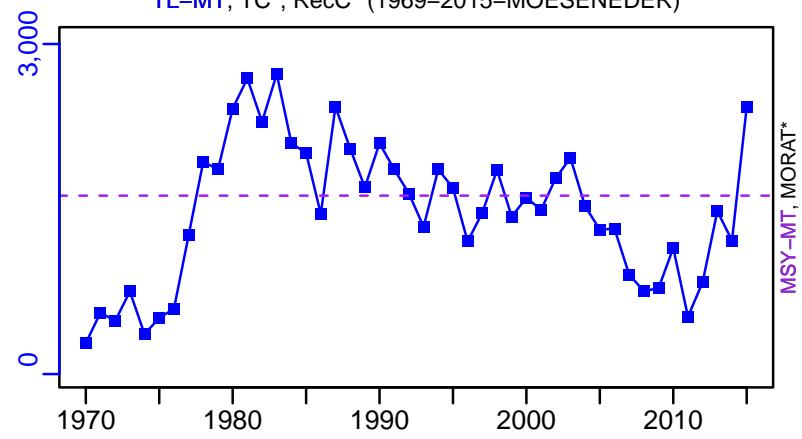
REC-EST: 1970–2015

- | | | |
|----------------------|---------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Grooved tiger prawn Northern Australia [GTPRAWNNAUST]

TL-MT, TC*, RecC* (1969–2015–MOESENEDER)

TAC*, Cpair*, Cadv*



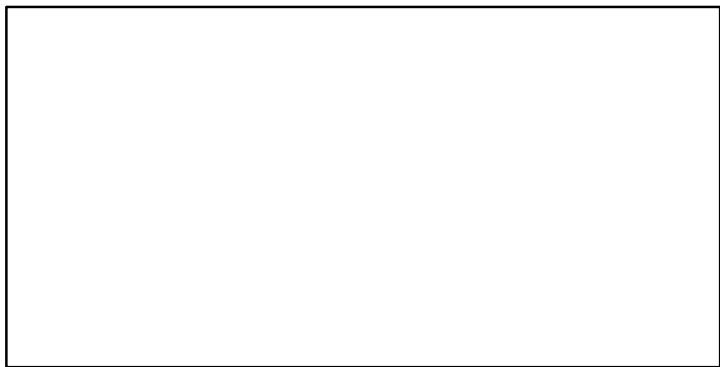
survB*



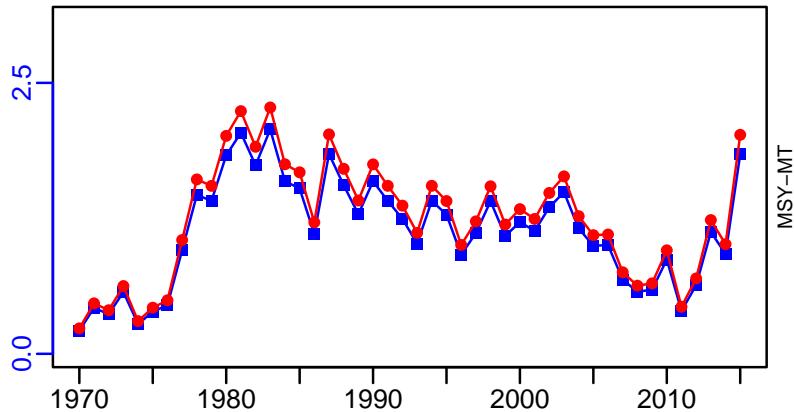
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC–ratio, (1969–2015–MOESENEDER)



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

Nylon shrimp Central-Southern Chile [NSHRIMPCSCH]

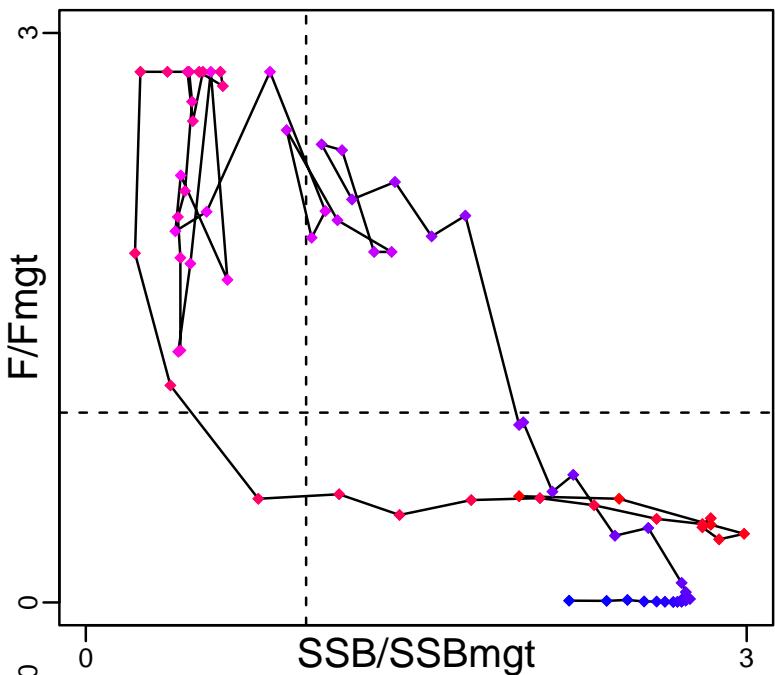
Metadata	
Scientific Name	Heterocarpus reedi
Current Assess ID	IFOPCH-NSHRIMPCSCH-1944-2016-PARMA
Area	Central-Southern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	5287
Fmgt	Fmgt-1/yr	2016	0.293
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2016	11,750
MSY	-	-	-
M	M-1/yr	2016	0.36
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

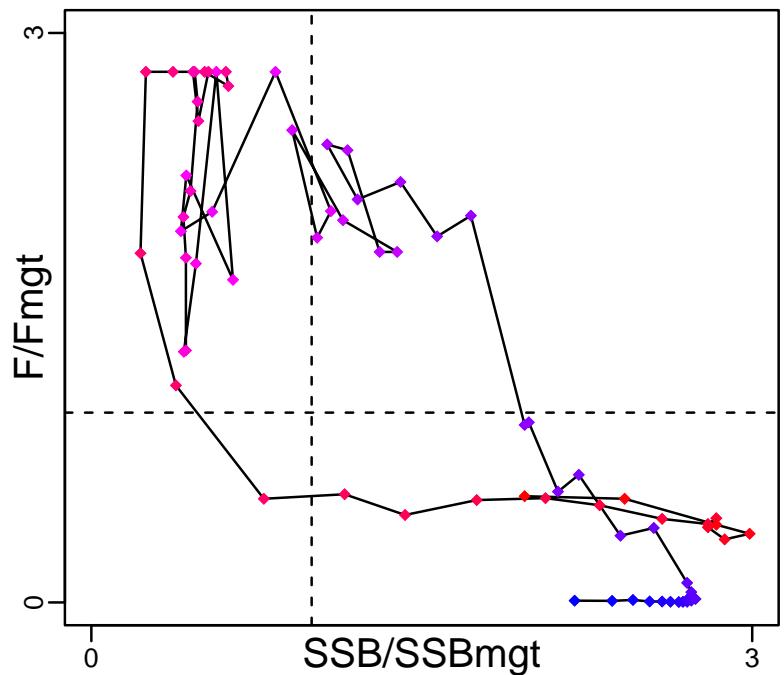
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2016	37,900	Both	-	
SSB	SSB-MT	2016	10,400	Females	1 to 6	
TN	-	-	-	-	-	
R	R-E00	2016	1.41×10^9	Females	1	
F	F-1/yr	2016	0.164	Females	-	
ER	ER-calc-ratio	2016	0.08	-	-	
TC	-	-	-			
TL	TL-MT	2016	3040			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.967			
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.56			
ER/ERmgt	-	-	-			

Nylon shrimp Central–Southern Chile [NSHRIMPCSCH]

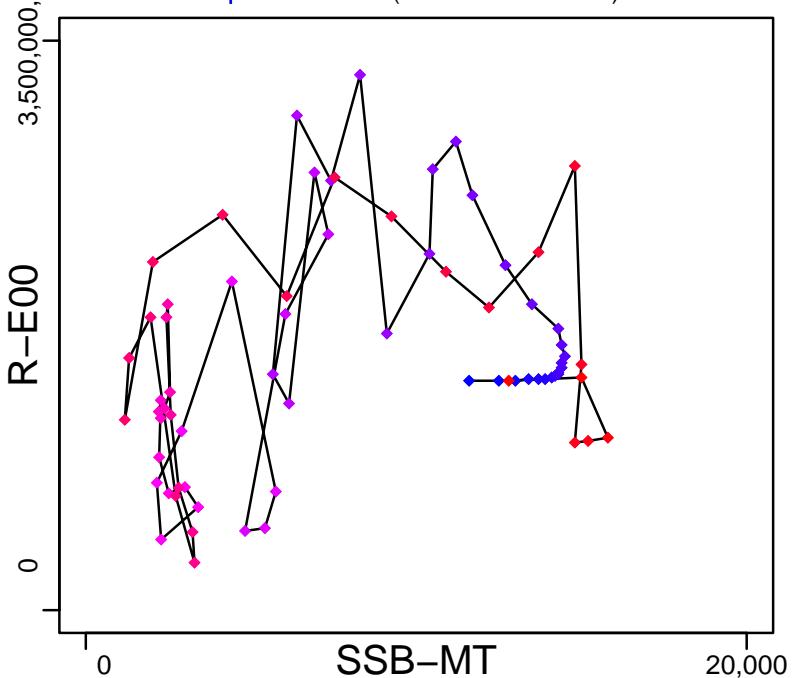
Kobe MSYpref (1944–2016–PARMA)



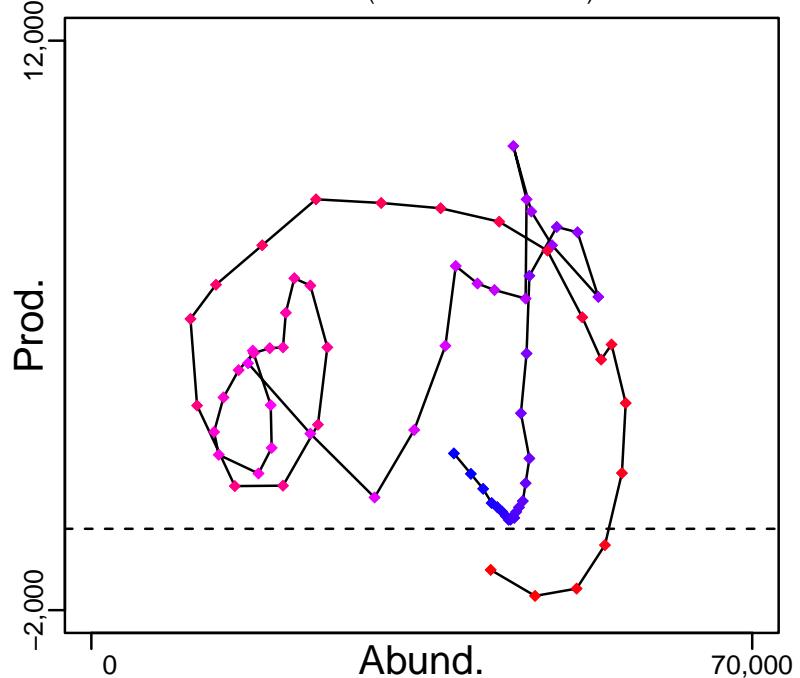
Kobe MGTPref (1944–2016–PARMA)



Spawner Recruit (1944–2016–PARMA)



Production (1944–2016–PARMA)

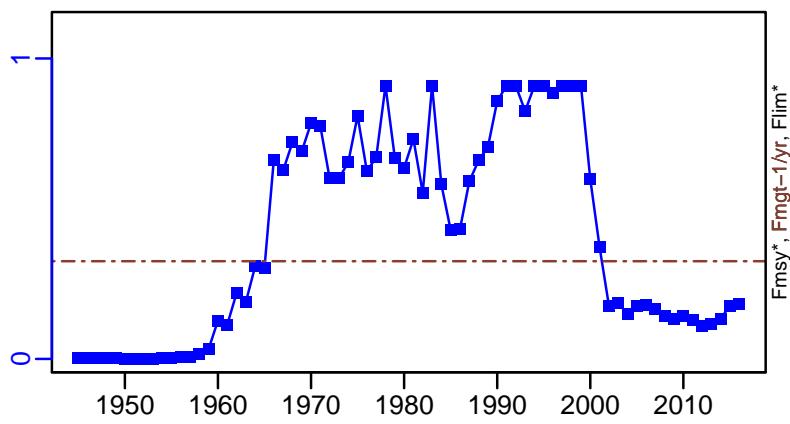
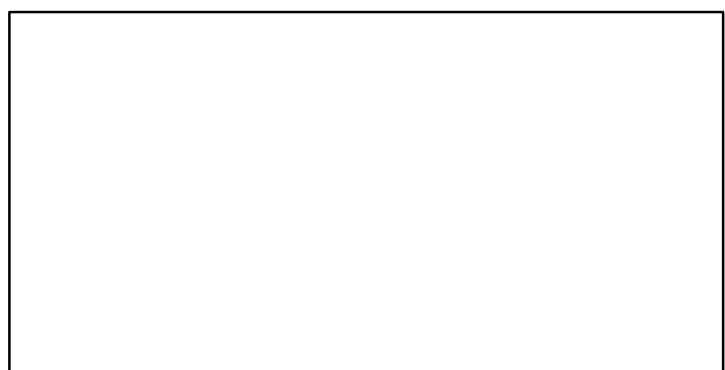
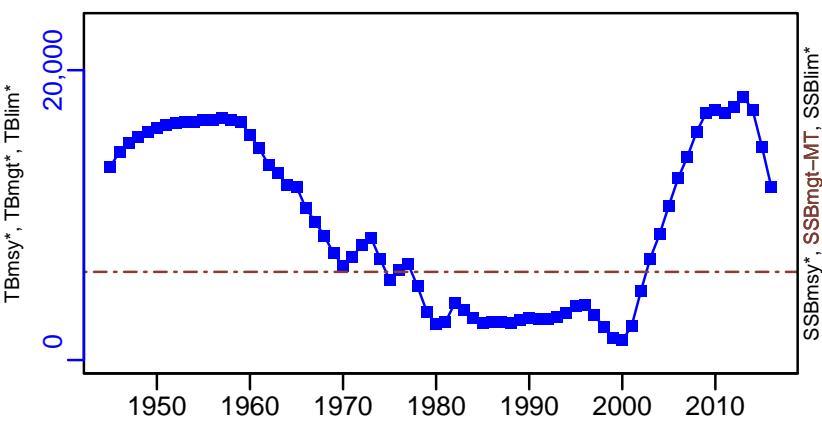
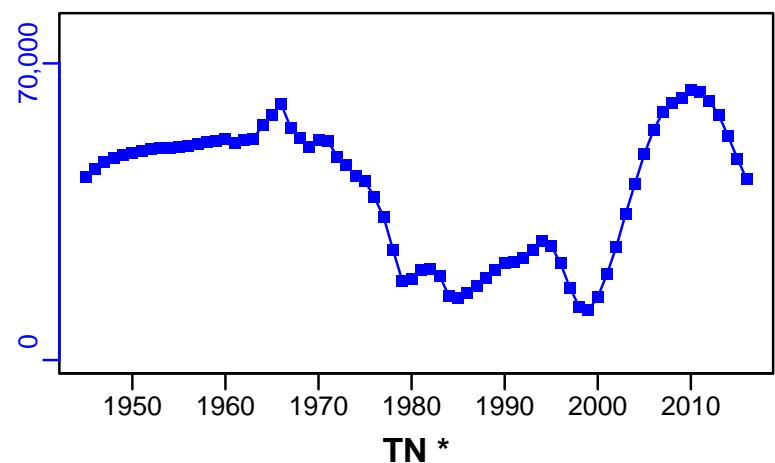


◆ Start Year ♦ End Year * No Data

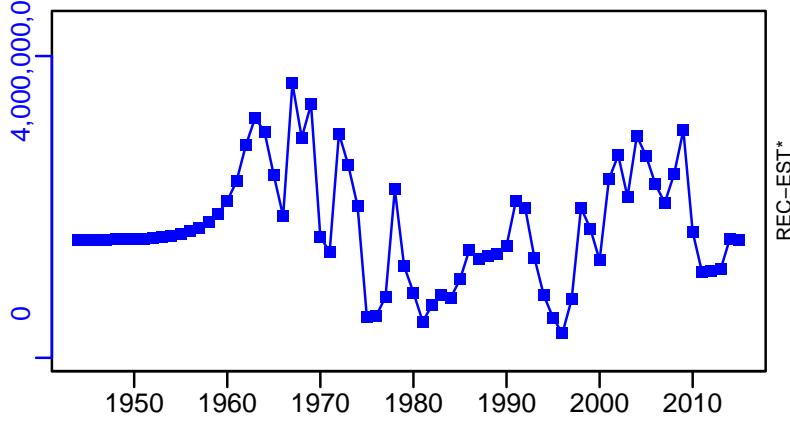
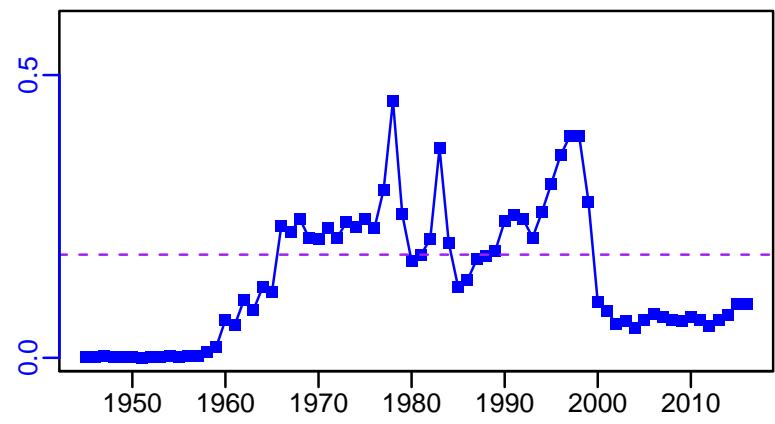
Nylon shrimp Central–Southern Chile [NSHRIMPCSCH]

TB-MT (1944–2016-PARMA)

SSB-MT (1944–2016-PARMA)



ER-calc-ratio (1944–2016-PARMA)

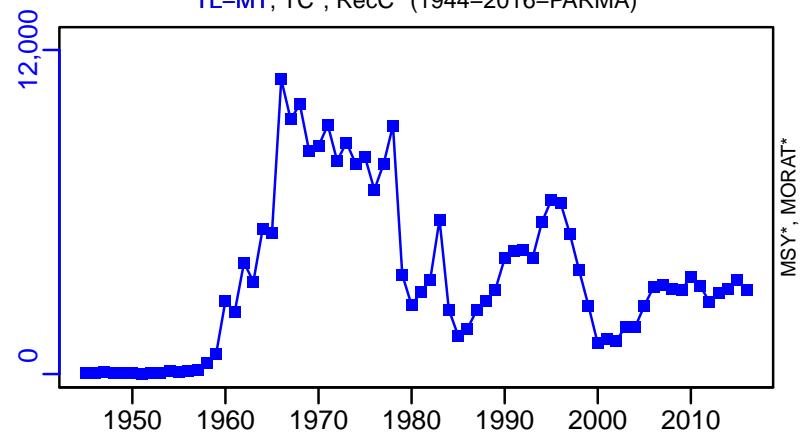


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Nylon shrimp Central–Southern Chile [NSHRIMPCSCH]

TL-MT, TC*, RecC* (1944–2016-PARMA)

TAC*, Cpair*, Cadv*



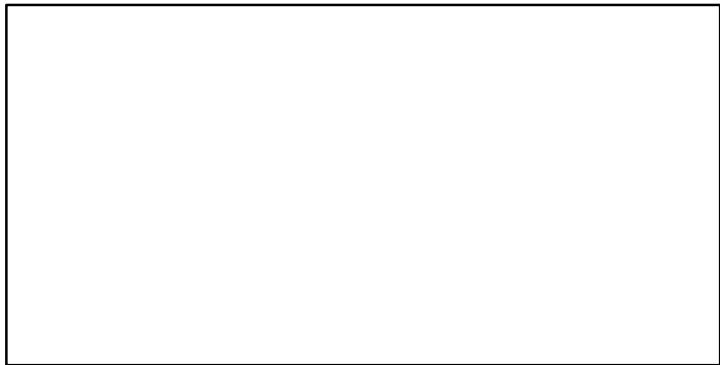
survB*



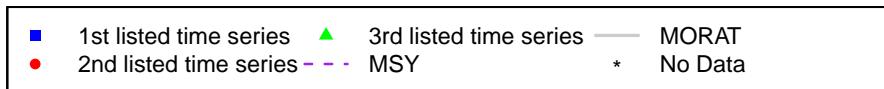
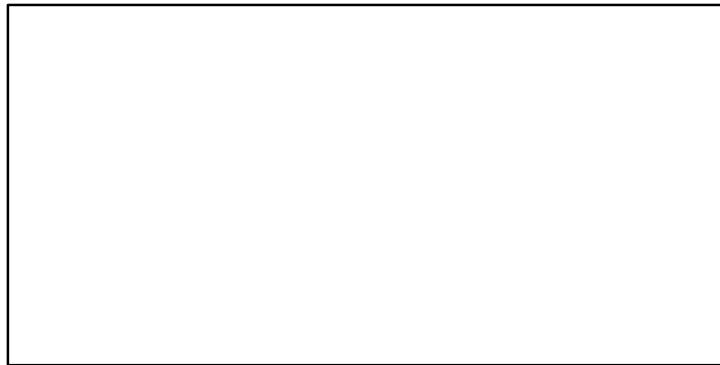
CPUE*



EFFORT*



CdivMSY*



Nylon shrimp Northern Chile [NSHRIMPNCH]

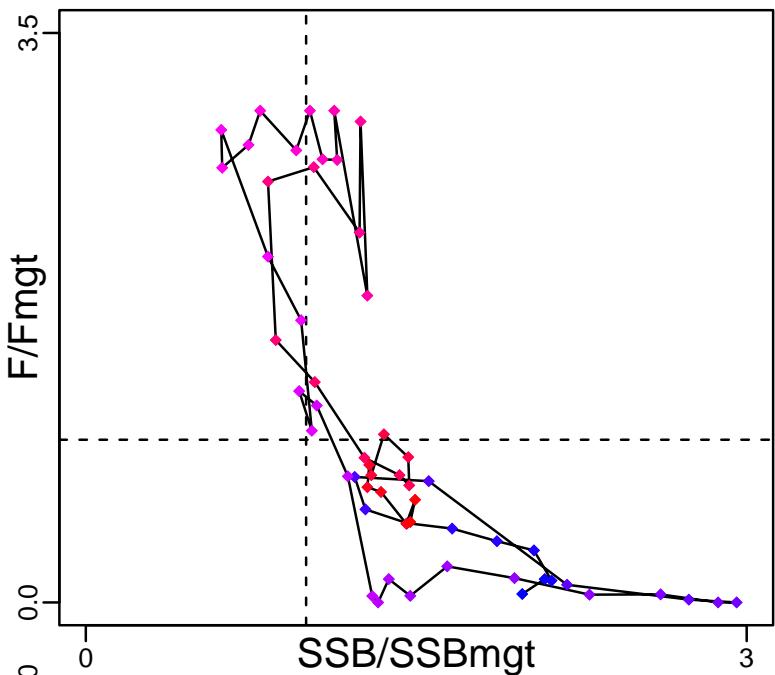
Metadata	
Scientific Name	Heterocarpus reedi
Current Assess ID	IFOPCH-NSHRIMPNCH-1960-2016-PARMA
Area	Northern Chile
Management Authority	Subsecretaria de Pesca
Assessor	Instituto de Fomento Pesquero - Chilean Fisheries Development Institute
Asmts in RAM	2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	2261
Fmgt	Fmgt-1/yr	2016	0.271
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2016	5025
MSY	-	-	-
M	M-1/yr	2016	0.36
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

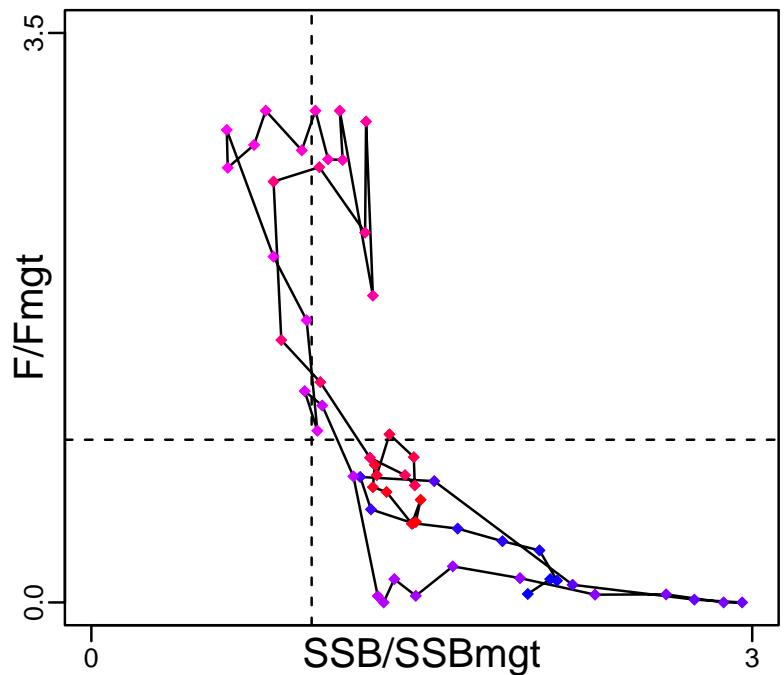
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	13,000	Both	-
SSB	SSB-MT	2016	3330	Females	-
TN	-	-	-	-	-
R	R-E00	2016	6.26×10^8	Females	1
F	F-1/yr	2016	0.134	Females	-
ER	ER-calc-ratio	2016	0.062	-	-
TC	-	-	-		
TL	TL-MT	2016	803		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	1.473		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	0.494		
ER/ERmgt	-	-	-		

Nylon shrimp Northern Chile [NSHRIMPNCH]

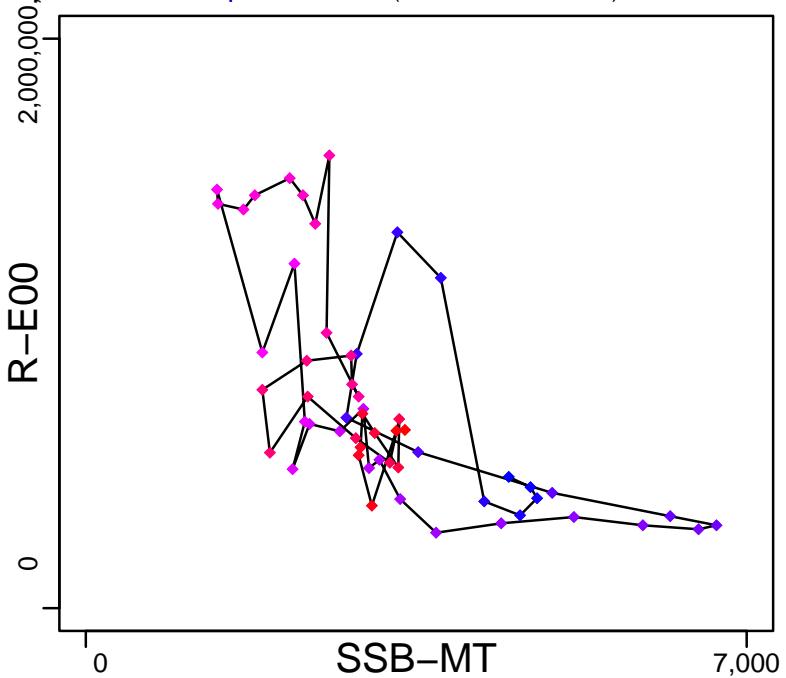
Kobe MSYpref (1960–2016–PARMA)



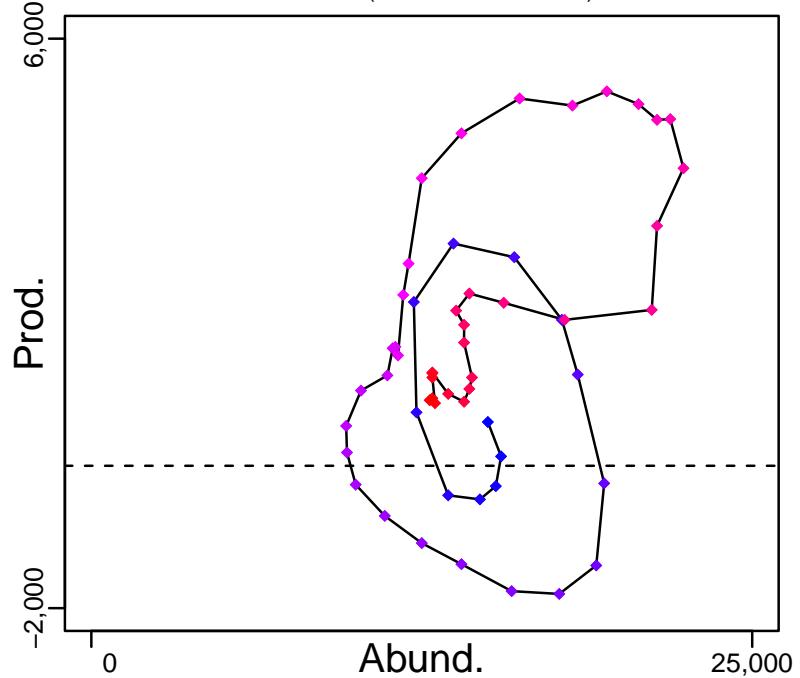
Kobe MGTPref (1960–2016–PARMA)



Spawner Recruit (1960–2016–PARMA)



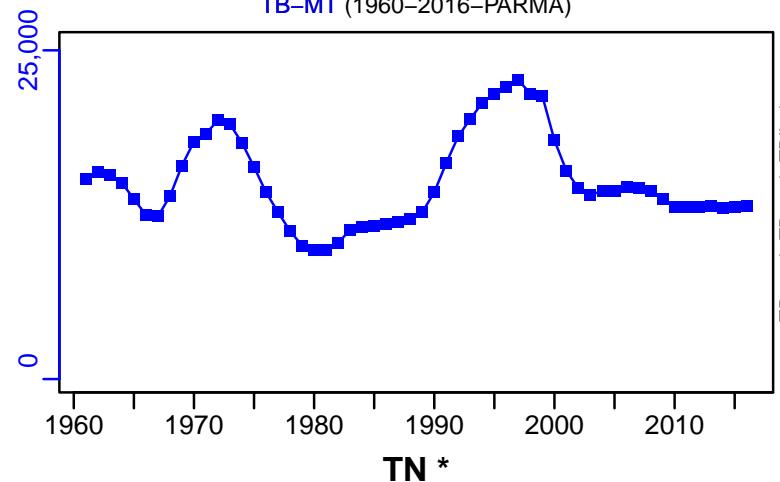
Production (1960–2016–PARMA)



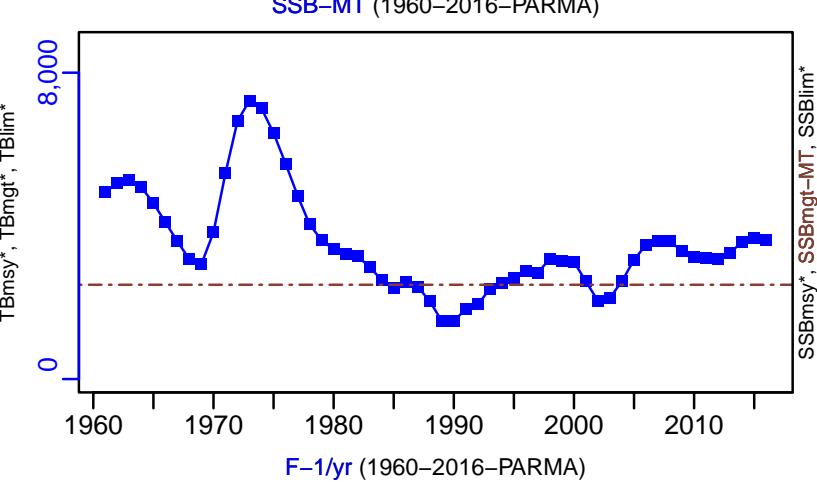
◆ Start Year ♦ End Year * No Data

Nylon shrimp Northern Chile [NSHRIMPNCH]

TB-MT (1960–2016-PARMA)

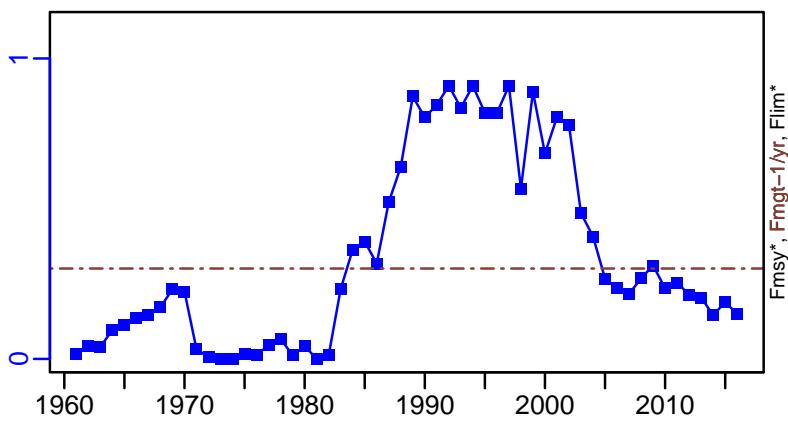
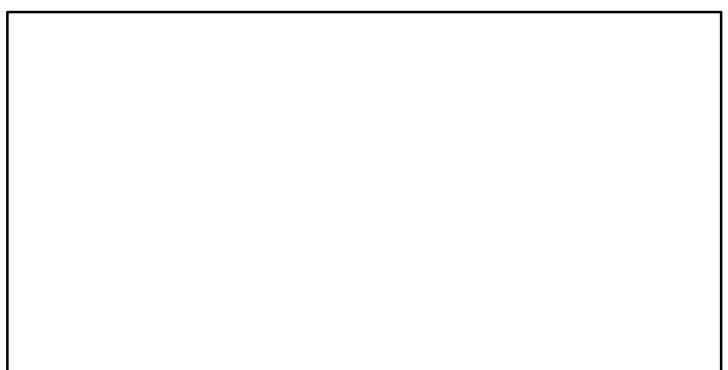


SSB-MT (1960–2016-PARMA)

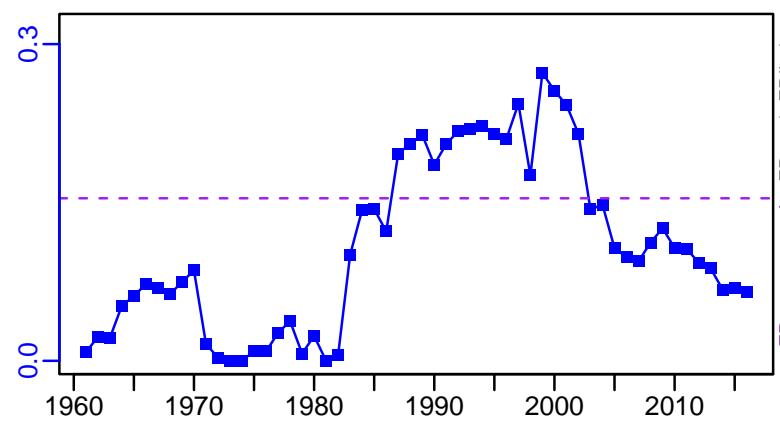


TN *

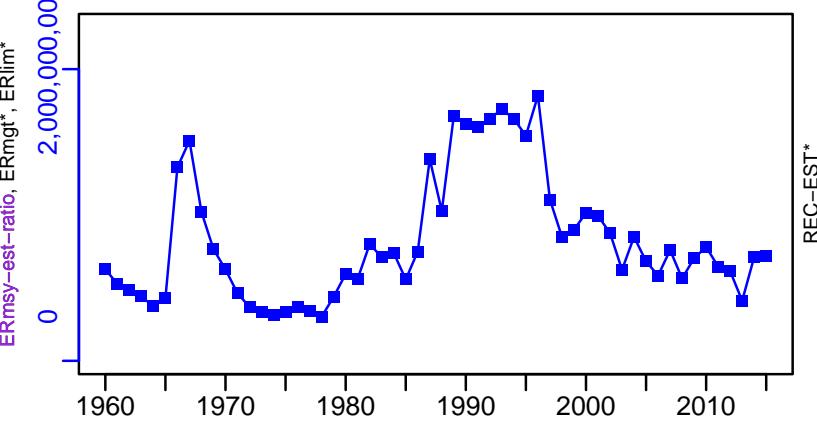
F-1/yr (1960–2016-PARMA)



ER-calc-ratio (1960–2016-PARMA)



R-E00 (1960–2016-PARMA)

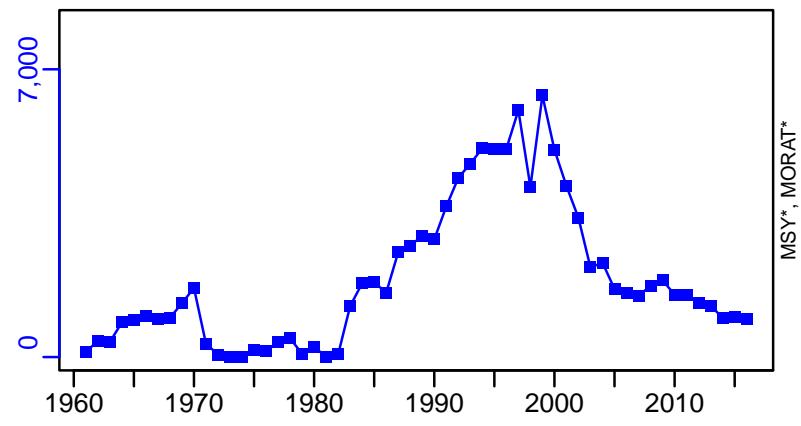


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - MSY-based BRP | - - Lim BRP | * No Data |

Nylon shrimp Northern Chile [NSHRIMPNCH]

TL-MT, TC*, RecC* (1960–2016-PARMA)

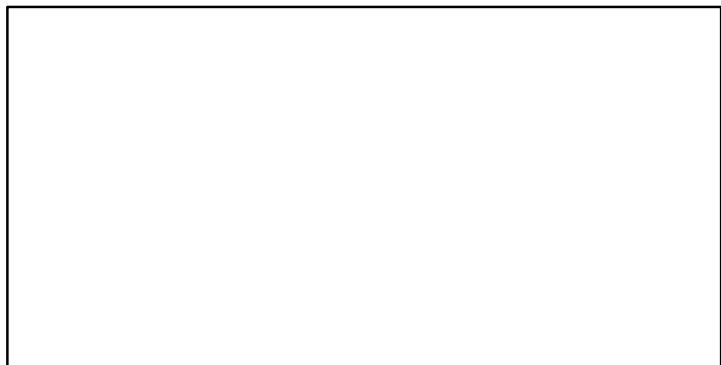
TAC*, Cpair*, Cadv*



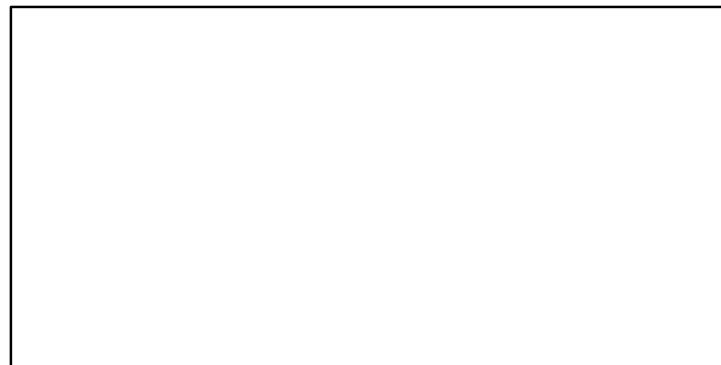
CPUE*



EFFORT*



CdivMSY*



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

Northern shrimp Gulf of Maine [PANDALGOM]

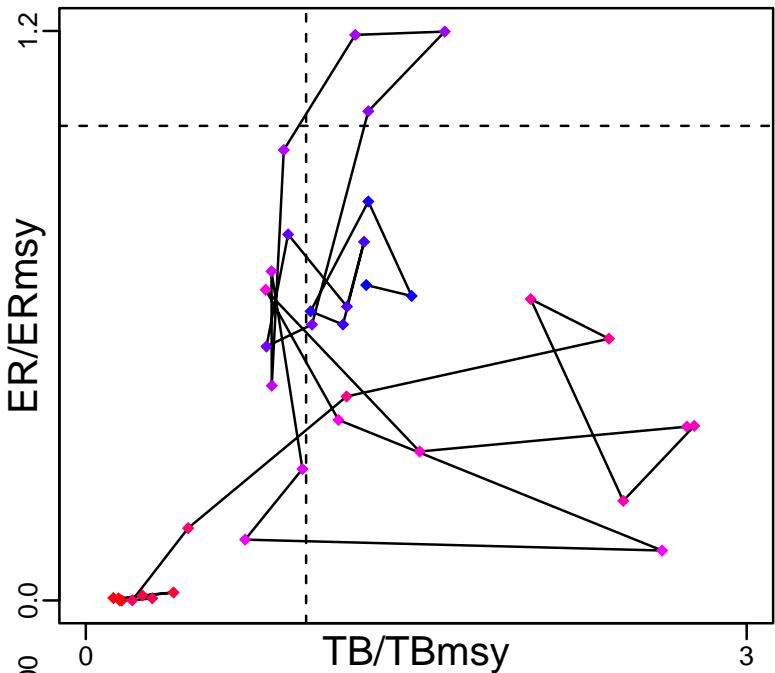
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	ASMFC-PANDALGOM-1984-2020-HIVELY
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2009, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2009	0.25
TBlim	TBlim-MT	2009	1540
SSBlim	-	-	-
Flim	Flim-1/yr	2009	0.6
ERlim	-	-	-

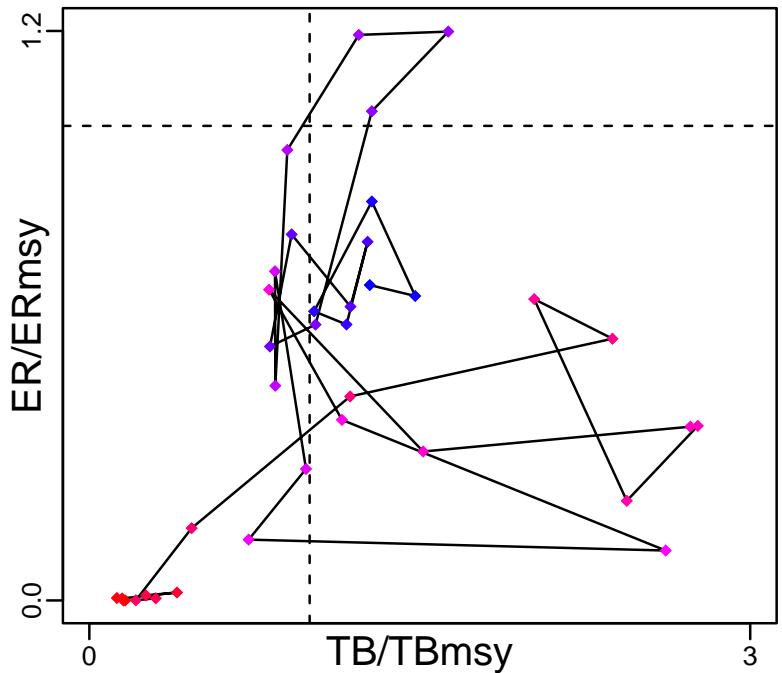
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2020	2728	-	-	
SSB	SSB-MT	2020	707	-	-	
TN	TN-E00	2020	1.5×10^9	-	-	
R	R-E00	2020	1.2×10^9	-	-	
F	F-1/yr	2020	0.002	-	-	
ER	ER-calc-ratio	2020	0	-	-	
TC	-	-	-			
TL	TL-MT	2020	0			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Northern shrimp Gulf of Maine [PANDALGOM]

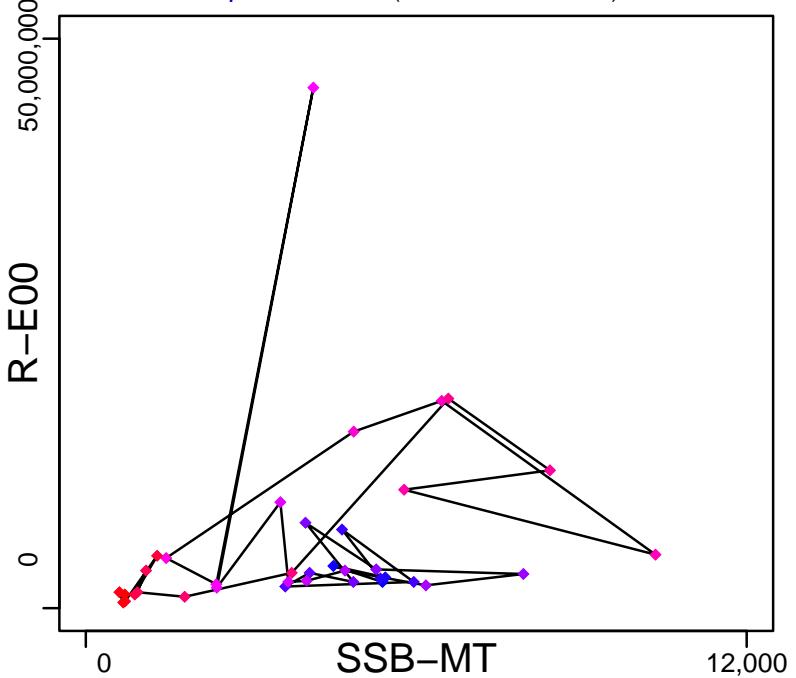
Kobe MSYpref (1984–2020–HIVELY)



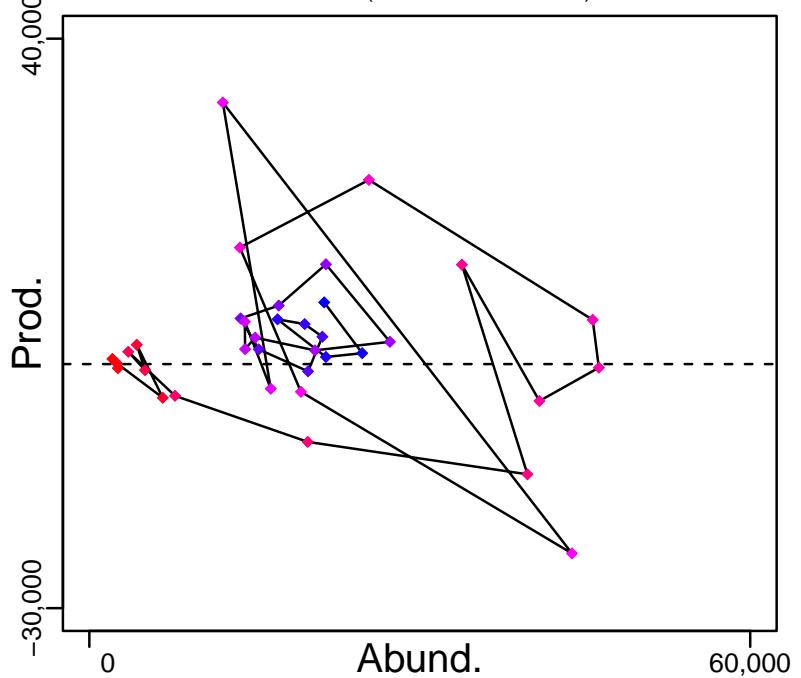
Kobe MGTPref (1984–2020–HIVELY)



Spawner Recruit (1984–2020–HIVELY)



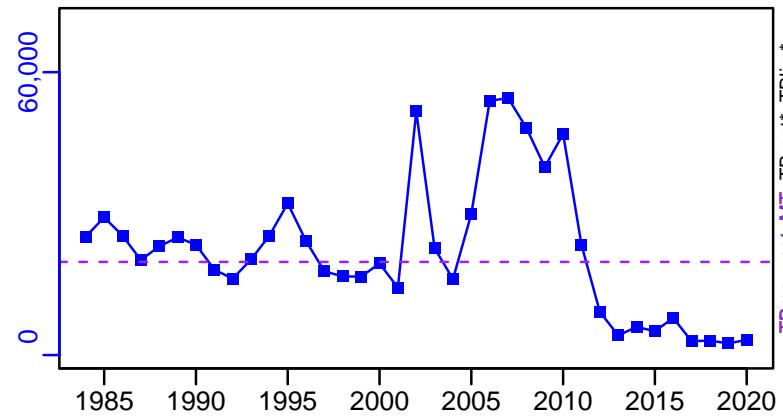
Production (1984–2020–HIVELY)



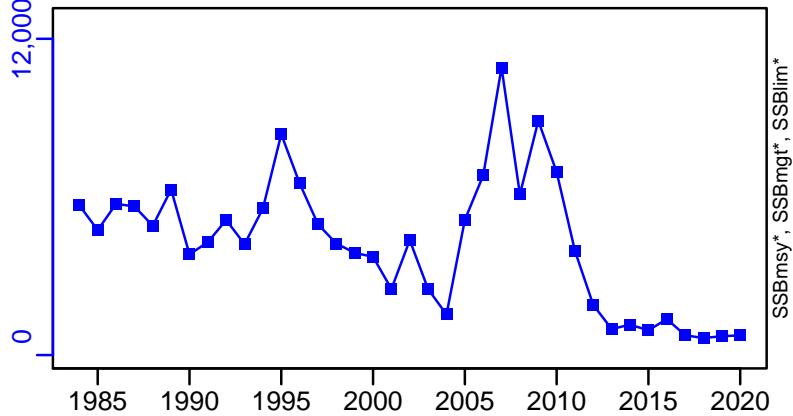
◆ Start Year ◆ End Year * No Data

Northern shrimp Gulf of Maine [PANDALGOM]

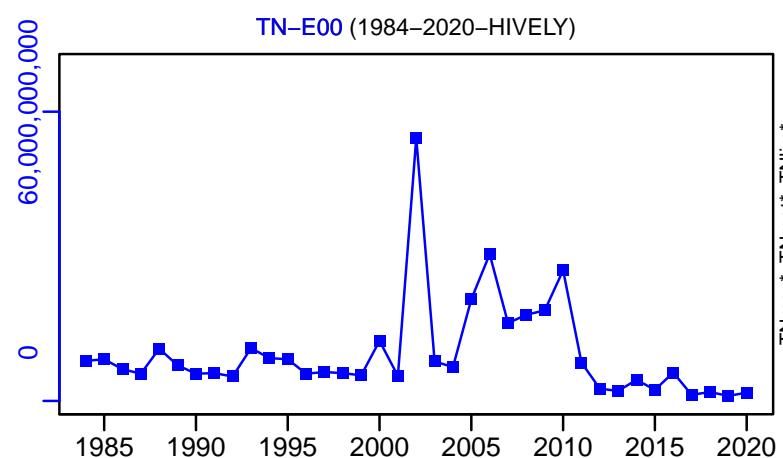
TB-MT (1984–2020–HIVELY)



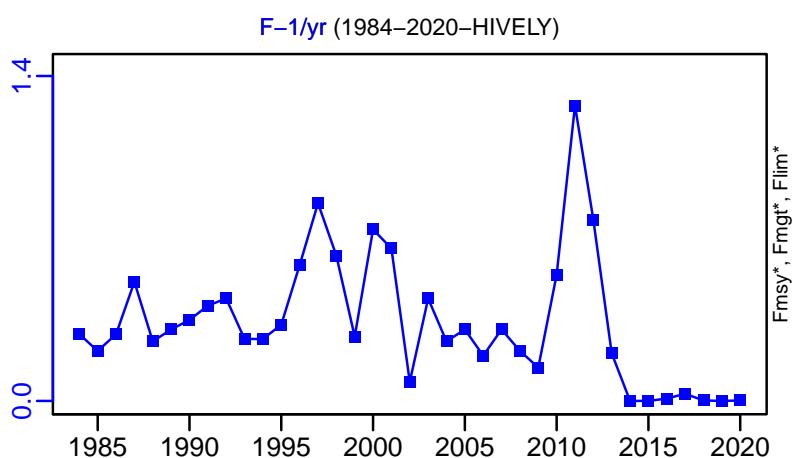
SSB-MT (1984–2020–HIVELY)



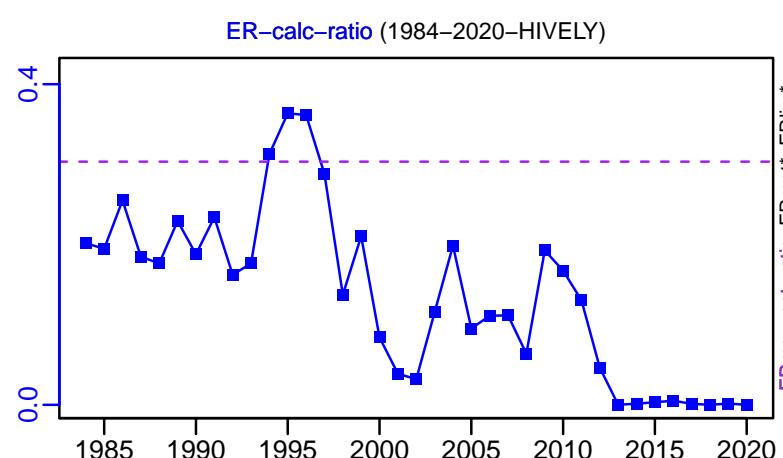
TN-E00 (1984–2020–HIVELY)



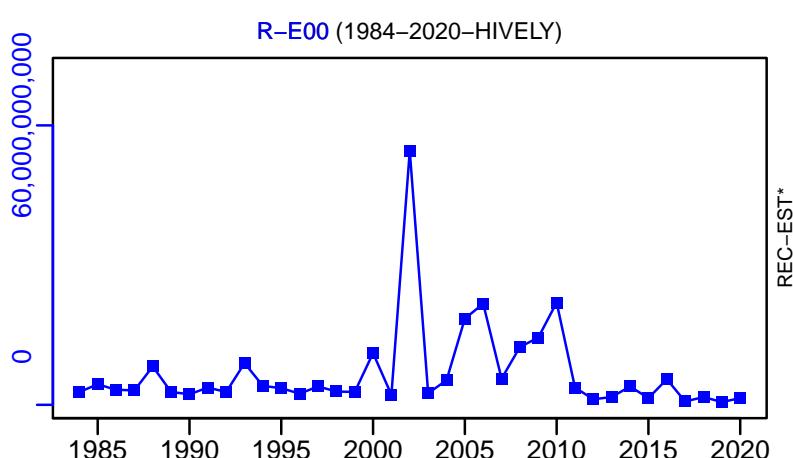
F-1/yr (1984–2020–HIVELY)



ER-calc-ratio (1984–2020–HIVELY)



R-E00 (1984–2020–HIVELY)

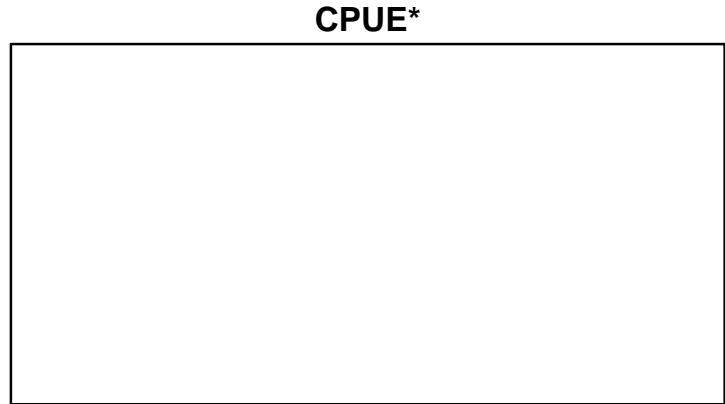
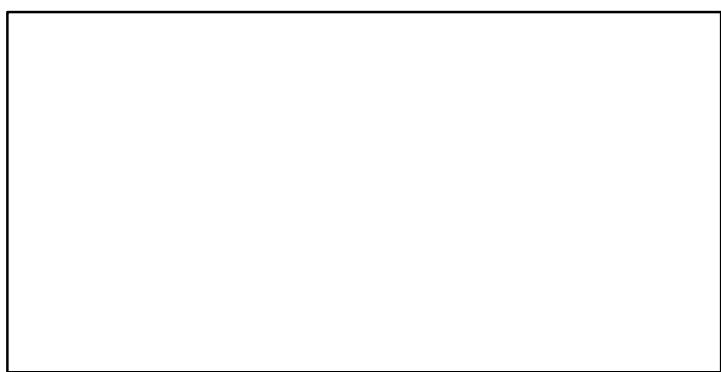
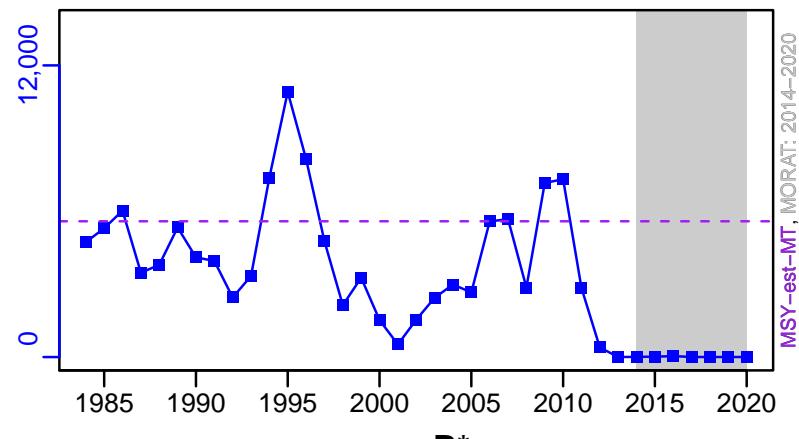


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - Lim BRP	* No Data

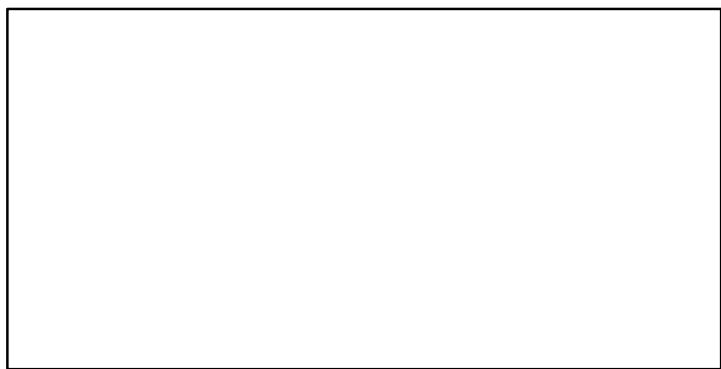
Northern shrimp Gulf of Maine [PANDALGOM]

TL-MT, TC*, RecC* (1984–2020–HIVELY)

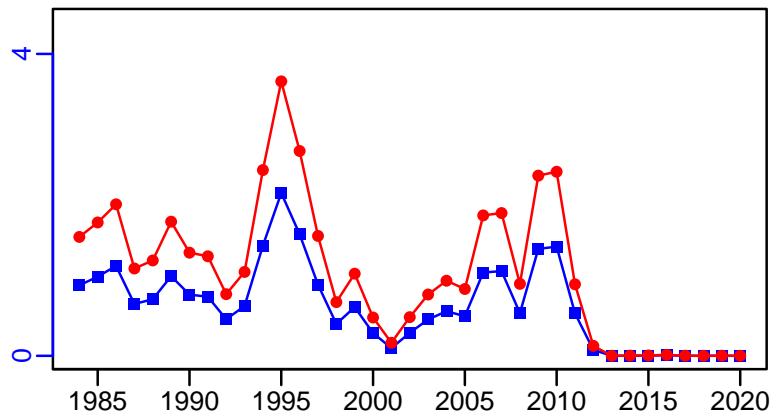
TAC*, Cpair*, Cadv*



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1984–2020–HIVELY)



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

Northern shrimp North-East Arctic [PANDALI-II]

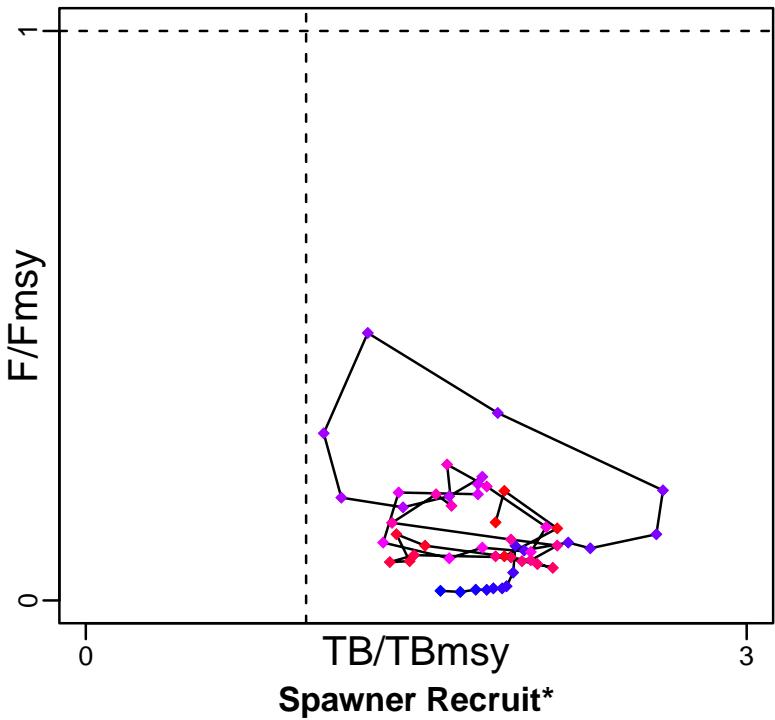
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALI-II-1970-2020-ICESIMP2021-2
Area	North-East Arctic
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2014, 2015, 2016, 2017, 2019, 2020

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

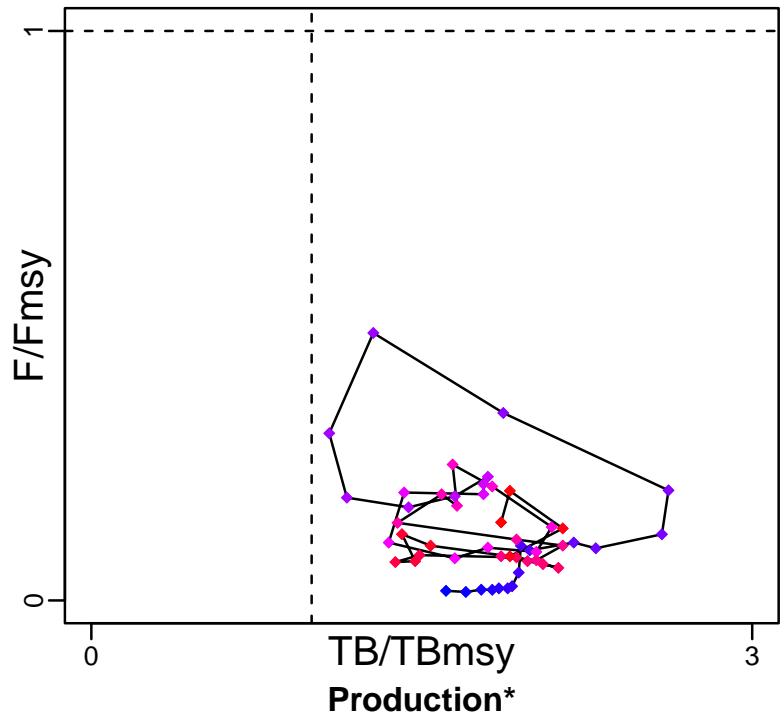
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	R-E00	2015	0	-	0	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2020	53,000			
TL	TL-MT	2019	78,000			
TB/TBmsy	TBdivTBmsy-dimensionless	2020	1.86			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	2.37			
F/Fmsy	FdivFmsy-dimensionless	2020	0.137			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Northern shrimp North–East Arctic [PANDALI-II]

Kobe MSYpref (1970–2020–ICESIMP2021–2)



Kobe MGTpref (1970–2020–ICESIMP2021–2)



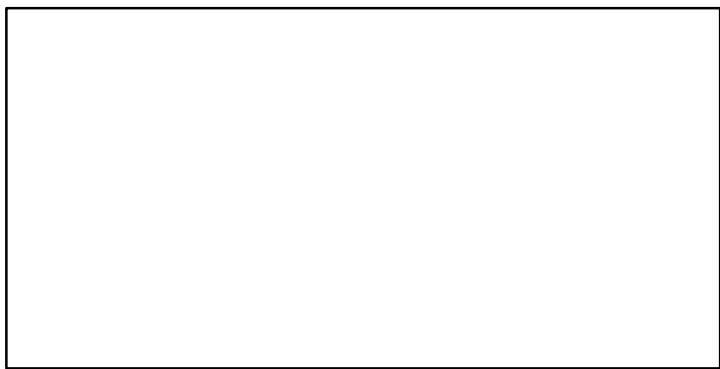
Spawner Recruit*

Production*

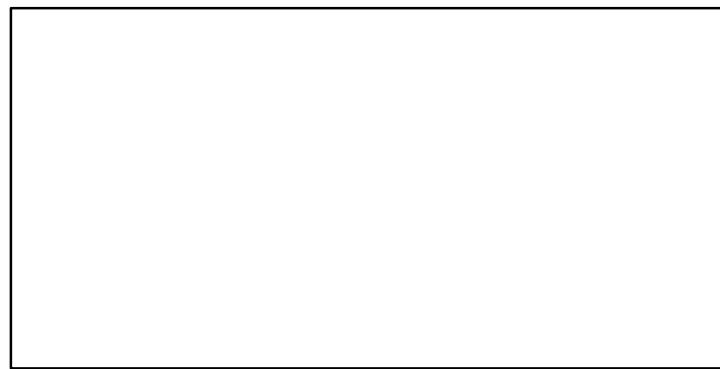
◆ Start Year ◆ End Year * No Data

Northern shrimp North-East Arctic [PANDALI-II]

TB*



SSB*



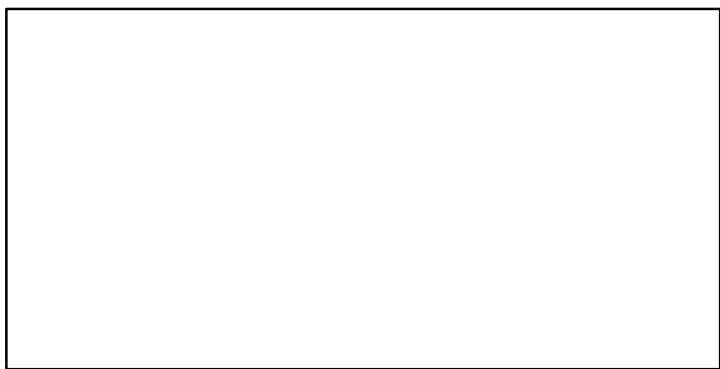
TN *



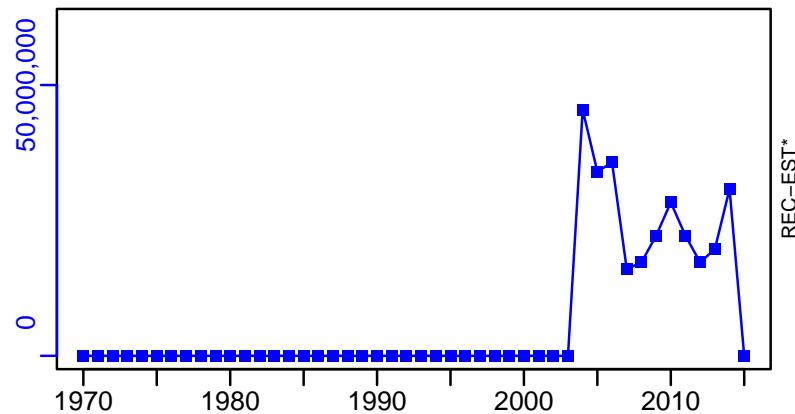
F*



ER*



R-E00 (1970–2015–ICESIMP2018)

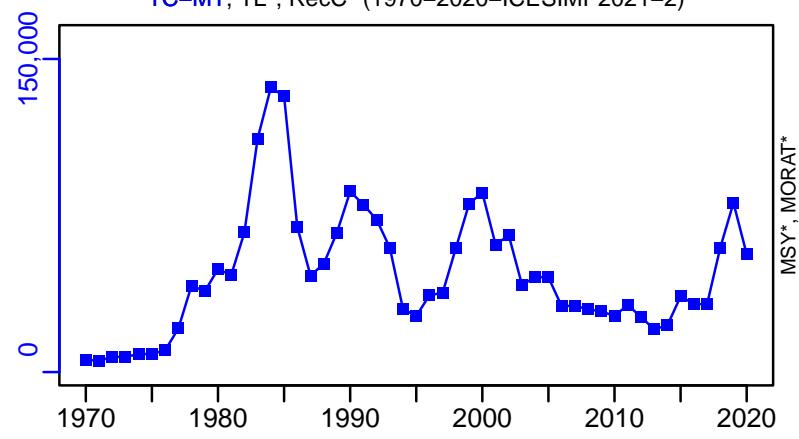


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

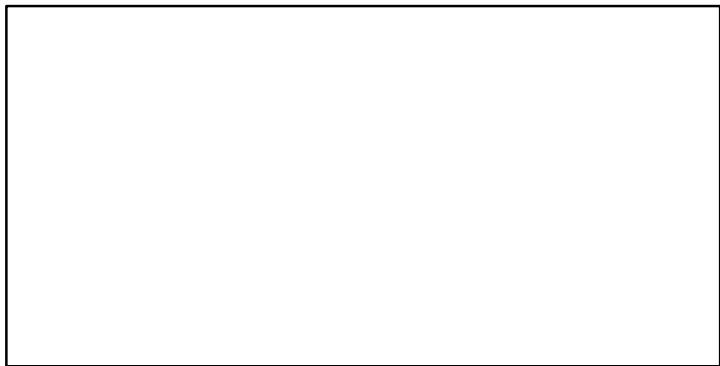
Northern shrimp North-East Arctic [PANDALI-II]

TC-MT, TL*, RecC* (1970–2020–ICESIMP2021-2)

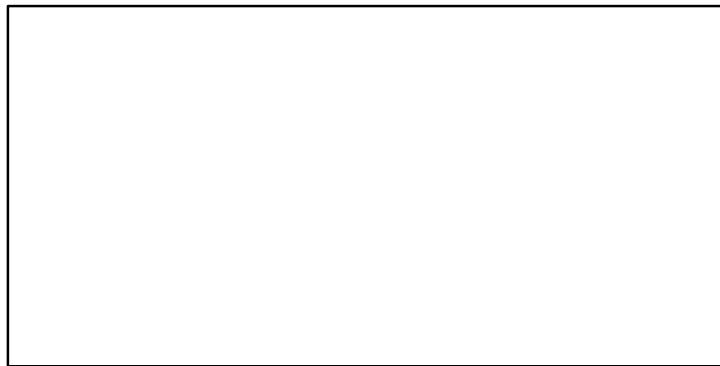
TAC*, Cpair*, Cadv*



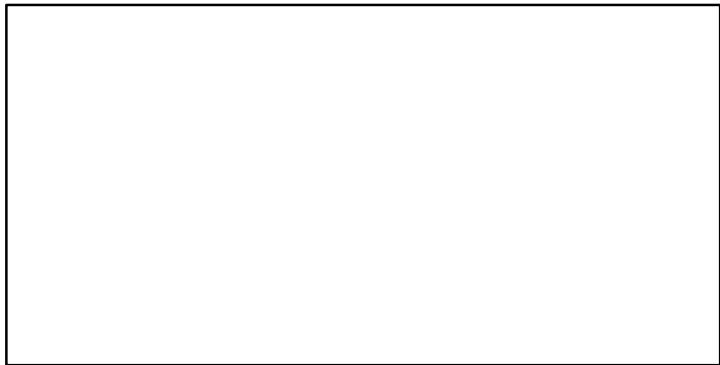
survB*



CPUE*



EFFORT*



CdivMSY*



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

Northern shrimp ICES 3a(west)-4a(east) [PANDALIIIaW-IVaE]

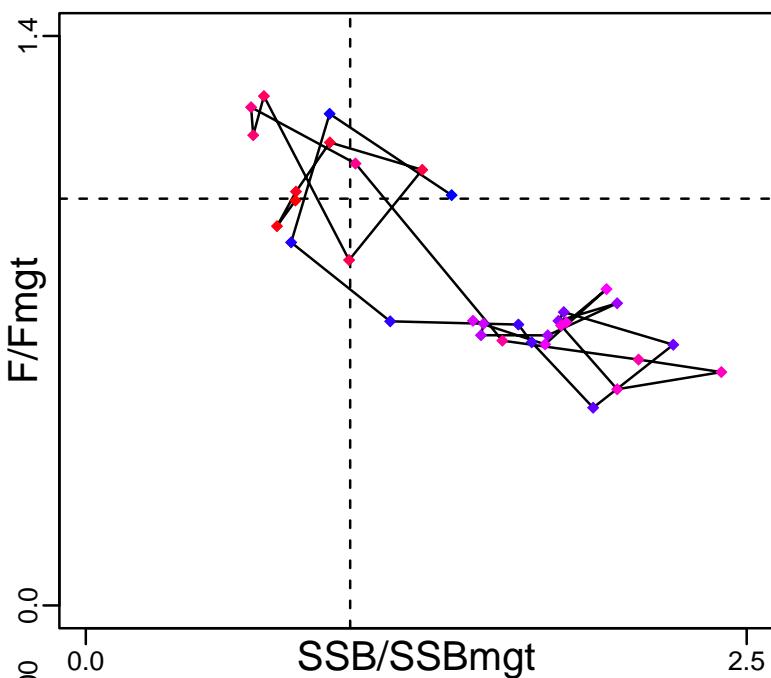
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIIIaW-IVaE-1988-2021-ICESIMP2021-2
Area	ICES 3a(west)-4a(east)
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2013, 2014, 2015, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2020	0.6
ERrmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	9900
Fmgt	Fmgt-1/yr	2021	0.59
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	6300
Flim	Flim-1/yr	2021	1
ERlim	-	-	-

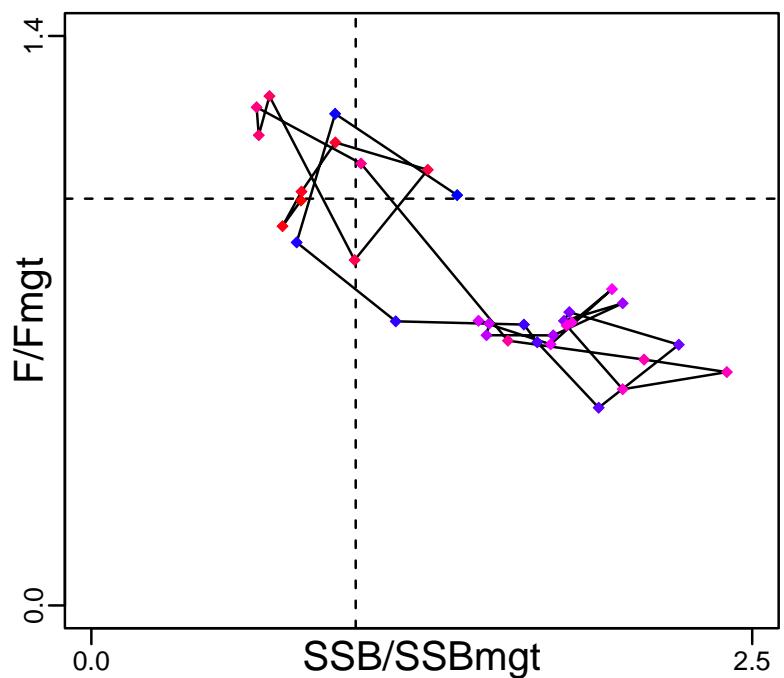
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2015	29,400	Both	-	
SSB	SSB-MT	2021	7580	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	7.8×10^9	-	0	
F	F-1/yr	2021	0.587	-	-	
ER	ER-calc-ratio	2015	0.412	-	-	
TC	TC-MT	2021	9230			
TL	TL-MT	2021	8940			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.1			
F/Fmsy	F-1/yr/Fmsy-1/yr	2020	0.88			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.766			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.995			
ER/ERmgt	-	-	-			

Northern shrimp ICES 3a(west)–4a(east) [PANDALIIaW–IVaE]

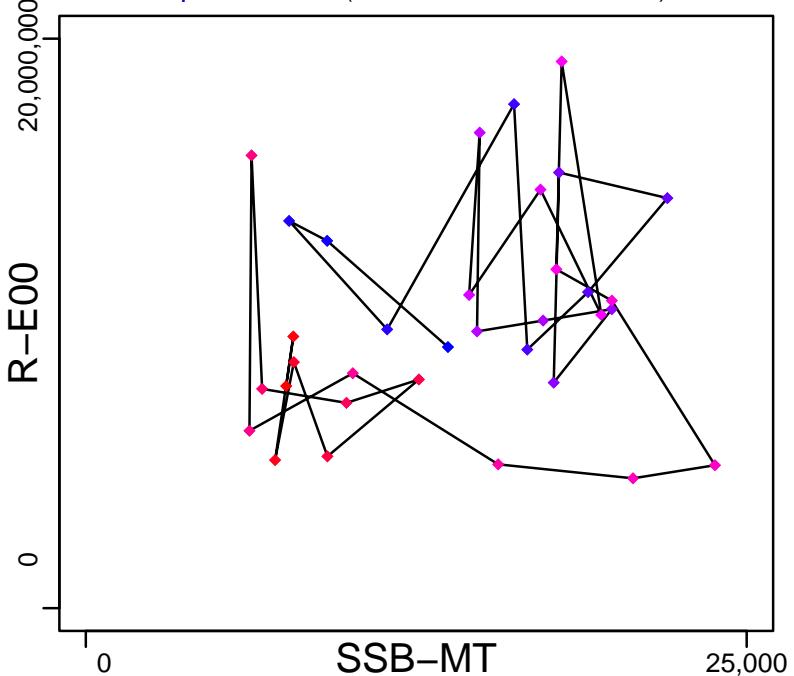
Kobe MSYpref (1988–2021–ICESIMP2021–2)



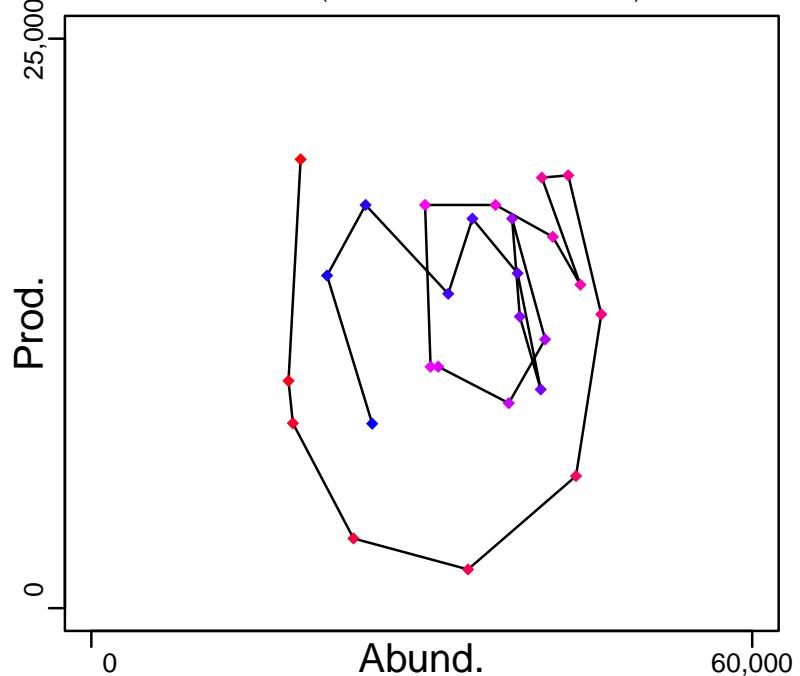
Kobe MGTpref (1988–2021–ICESIMP2021–2)



Spawner Recruit (1988–2021–ICESIMP2021–2)



Production (1988–2021–ICESIMP2021–2)

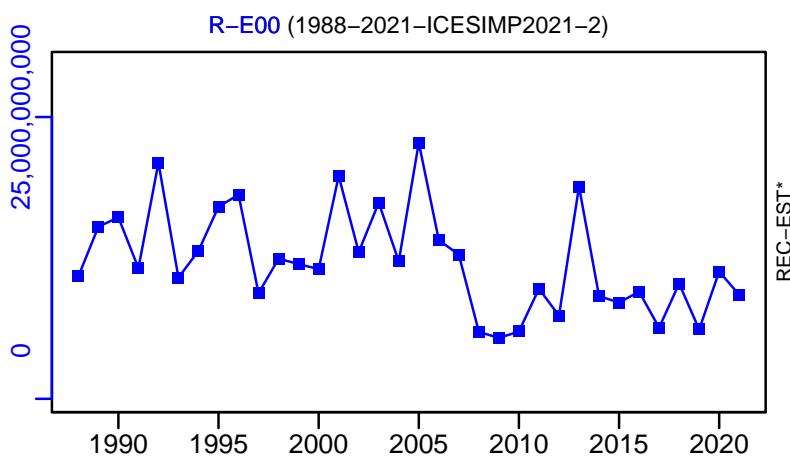
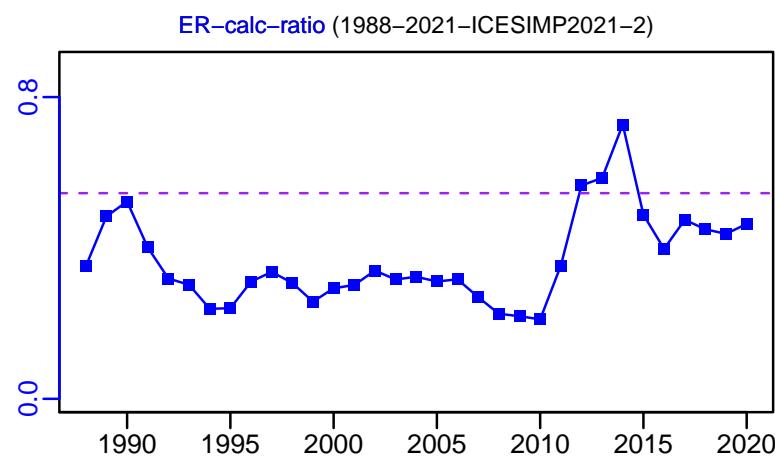
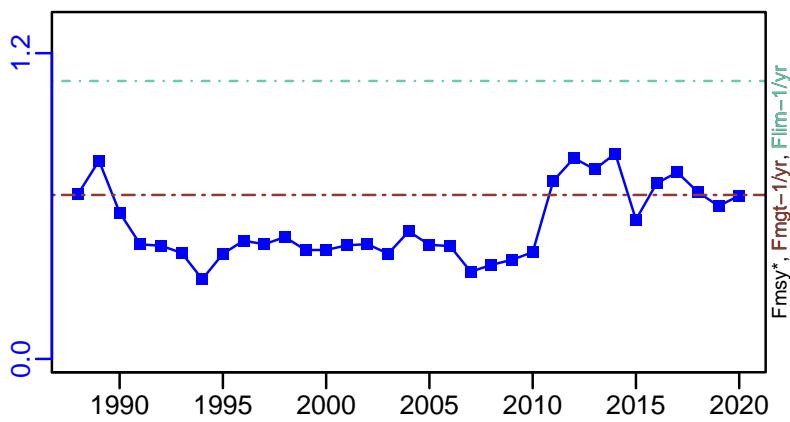
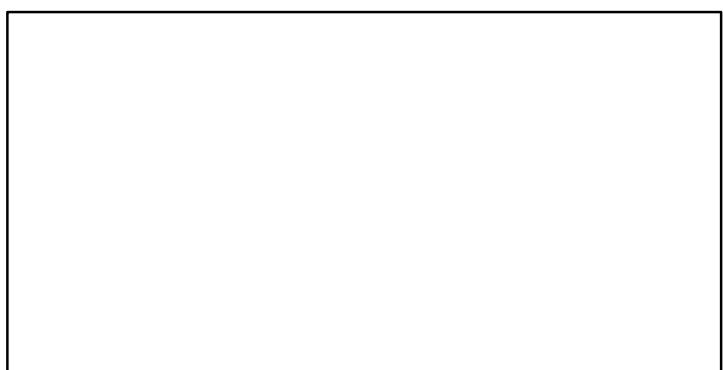
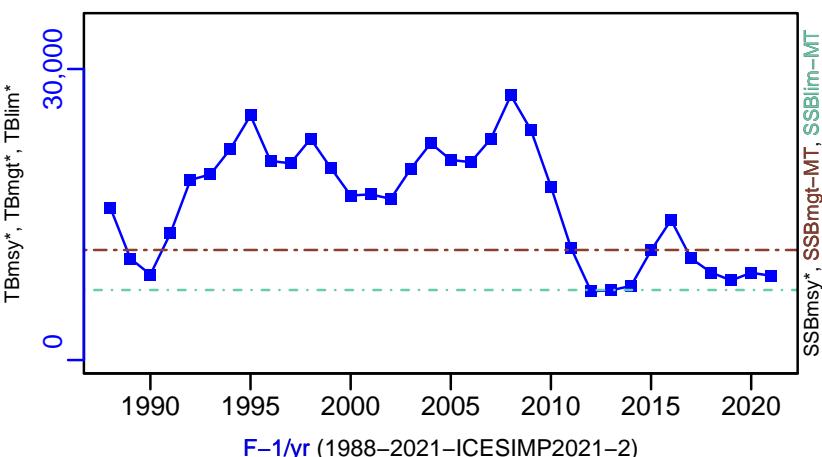
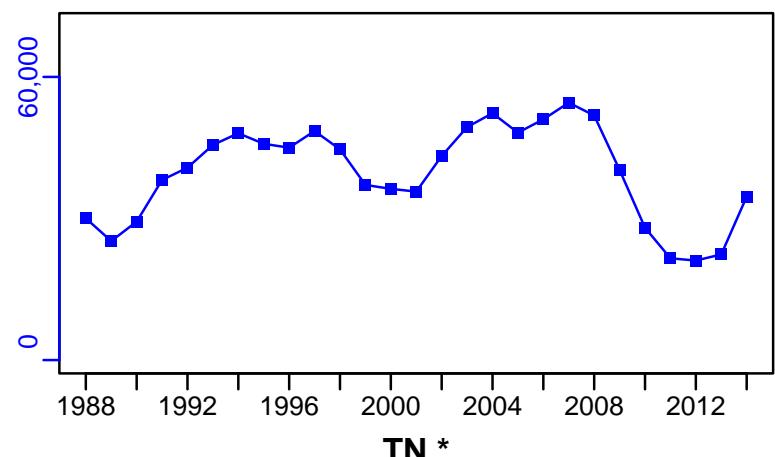


◆ Start Year ◆ End Year * No Data

Northern shrimp ICES 3a(west)–4a(east) [PANDALIlaW–IVaE]

TB-MT (1988–2015–ICESIMP2016)

SSB-MT (1988–2021–ICESIMP2021–2)

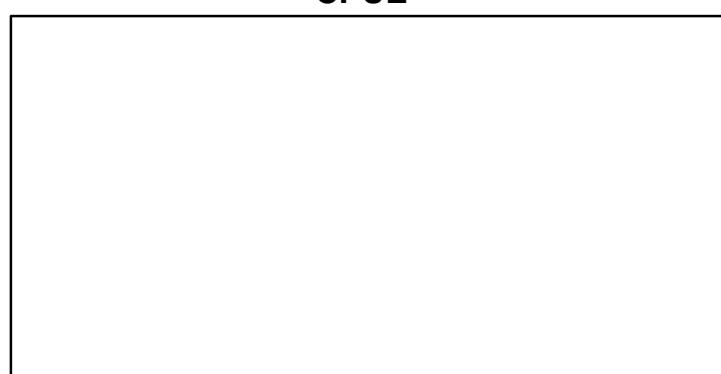
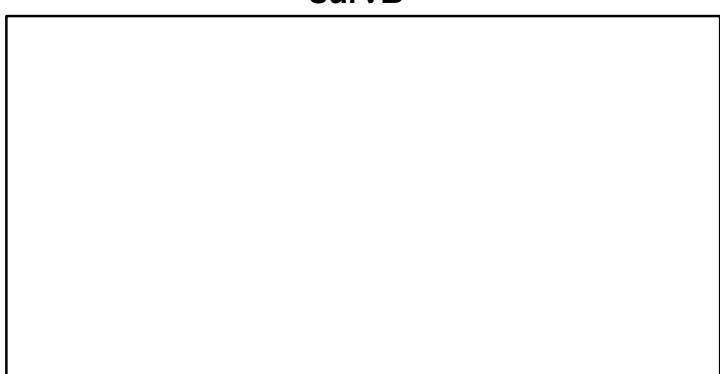
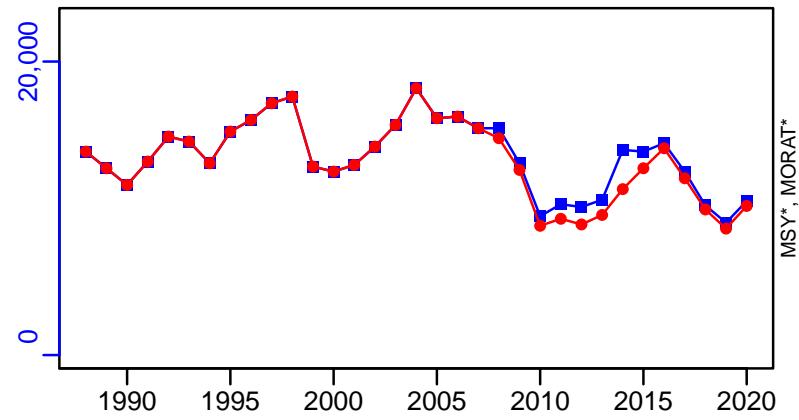


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

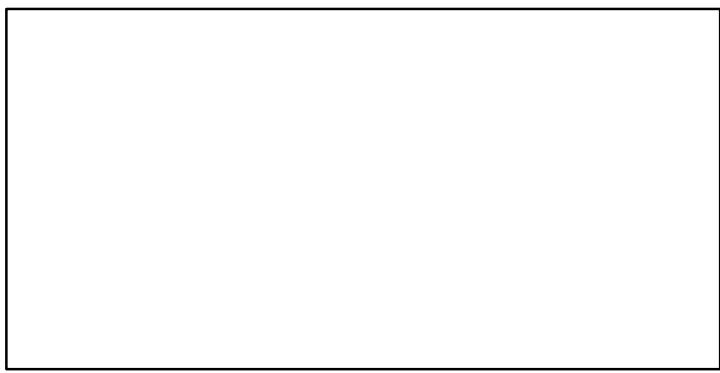
Northern shrimp ICES 3a(west)–4a(east) [PANDALIlaW–IVaE]

TC–MT, TL–MT, RecC* (1988–2021–ICESIMP2021–2)

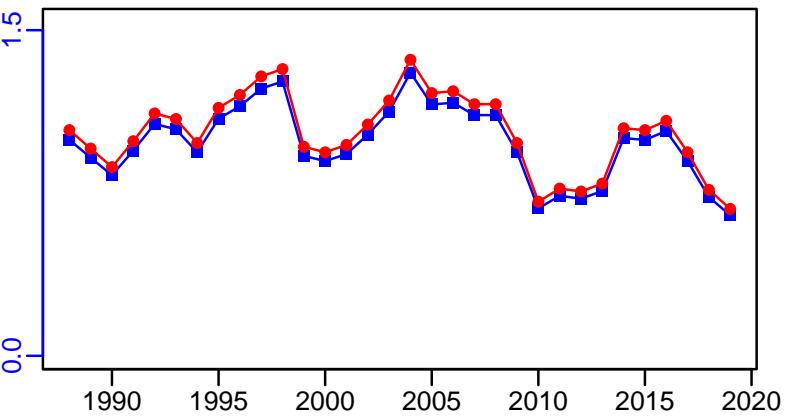
TAC*, Cpair*, Cadv*



EFFORT*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (1988–2020–ICESIMP2021–2)



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

Northern shrimp Northern North Sea [PANDALIVa]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	NIPAG-PANDALIVa-1970-2019-ICESIMP2021
Area	Northern North Sea
Management Authority	International Council for the Exploration of the Sea
Assessor	Joint NAFO and ICES Pandalus Assessment Working Group
Asmts in RAM	2015, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2019	1.4		
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

Northern shrimp Northern North Sea [PANDALIVa]

TB*



SSB*



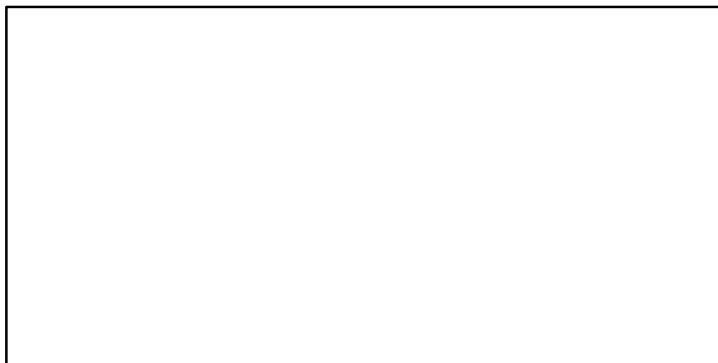
TN *



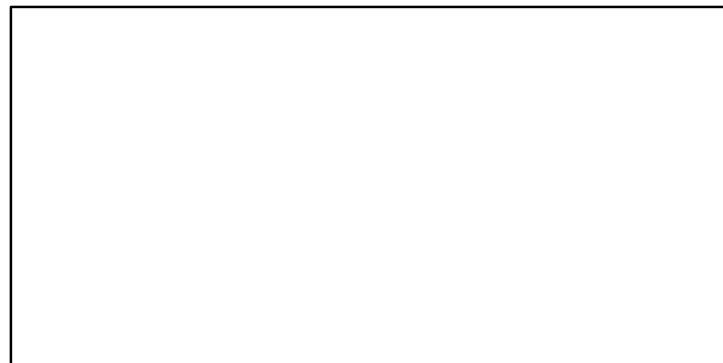
F*



ER*



Recruits*

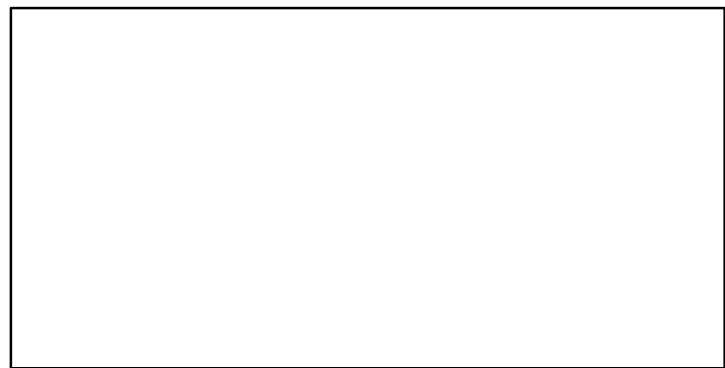
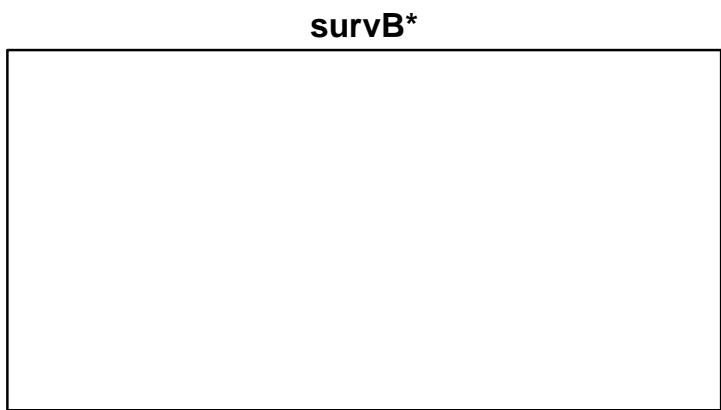
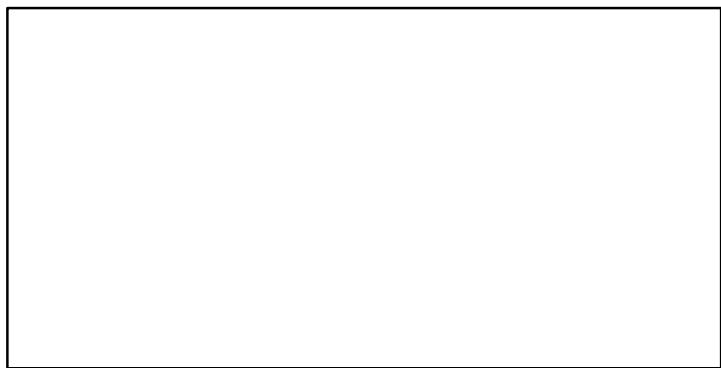
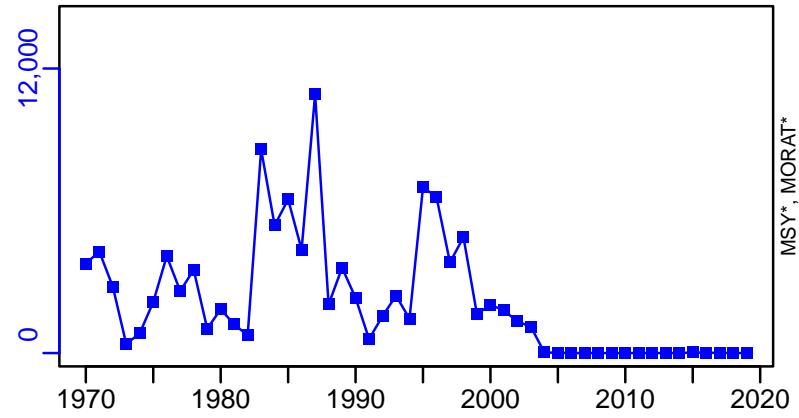


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

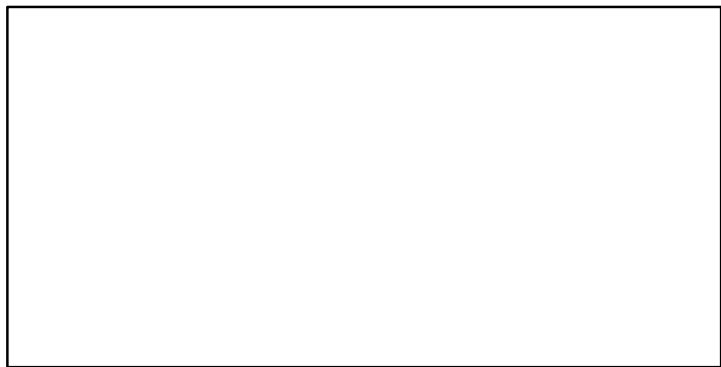
Northern shrimp Northern North Sea [PANDALIVa]

TL-MT, TC*, RecC* (1970–2019–ICESIMP2021)

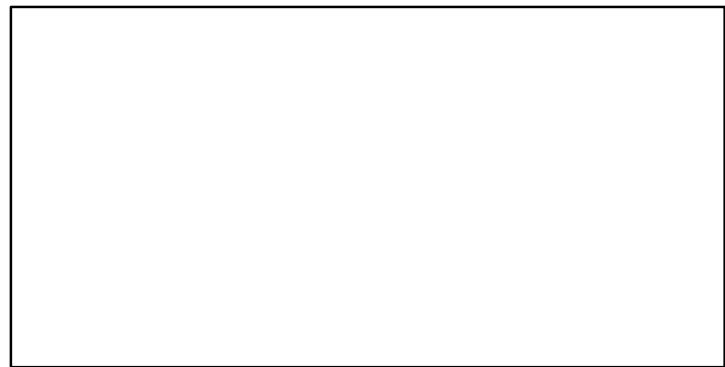
TAC*, Cpair*, Cadv*



EFFORT*



CdivMSY*



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

Northern shrimp Nunavut/Nunavik East [PANDALNUNE]

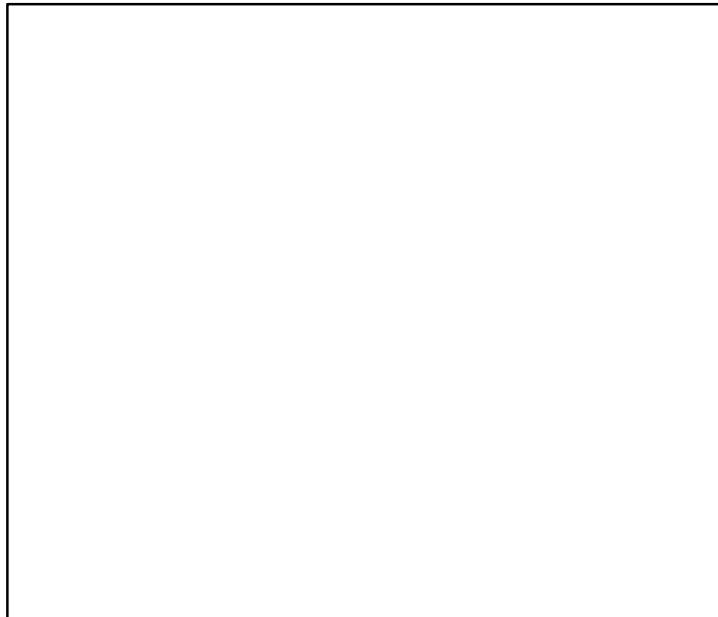
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-ARCTIC-PANDALNUNE-1979-2018-ASHBROOK
Area	Nunavut/Nunavik East
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Arctic Region
Asmts in RAM	2018

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

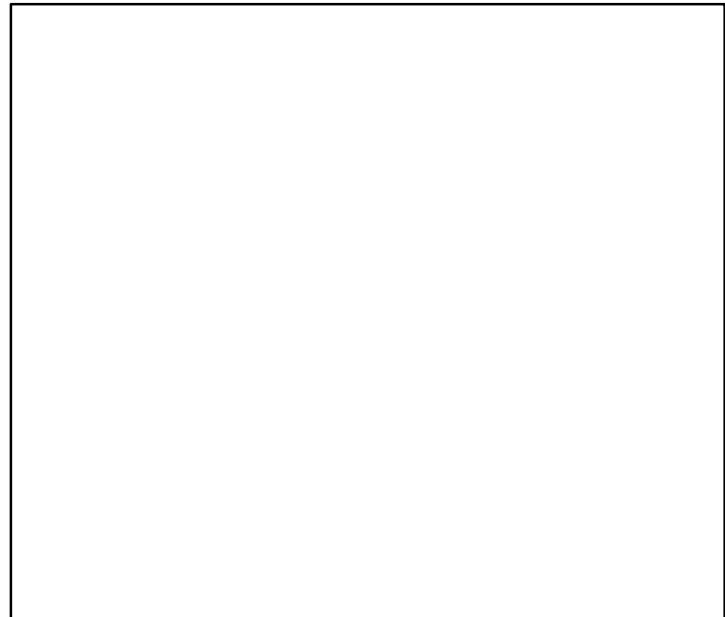
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	6000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Nunavut/Nunavik East [PANDALNUNE]

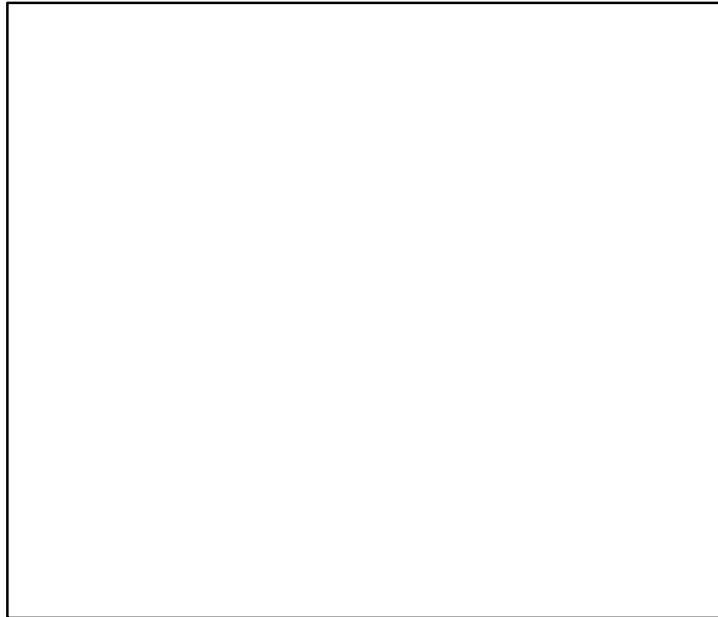
Kobe MSY*



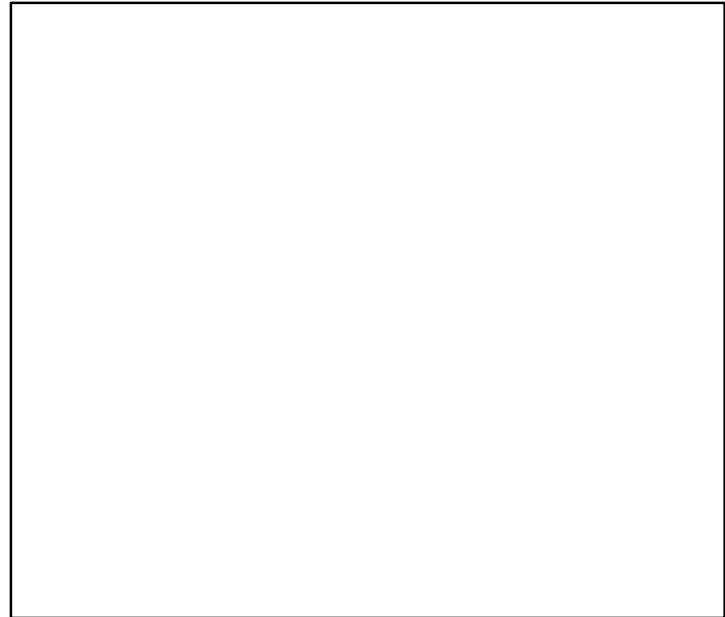
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Northern shrimp Nunavut/Nunavik East [PANDALNUNE]

TB*



SSB*



TN *



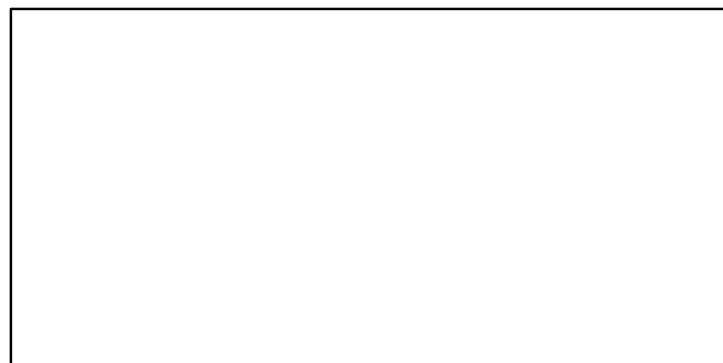
F*



ER*



Recruits*

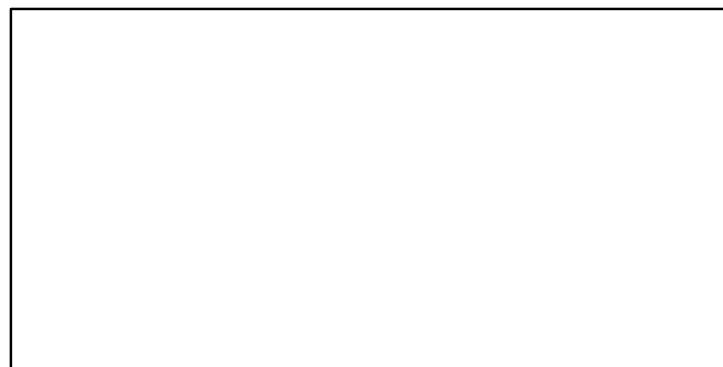
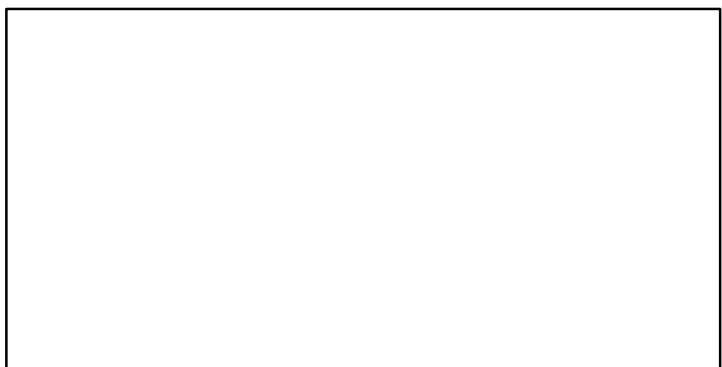
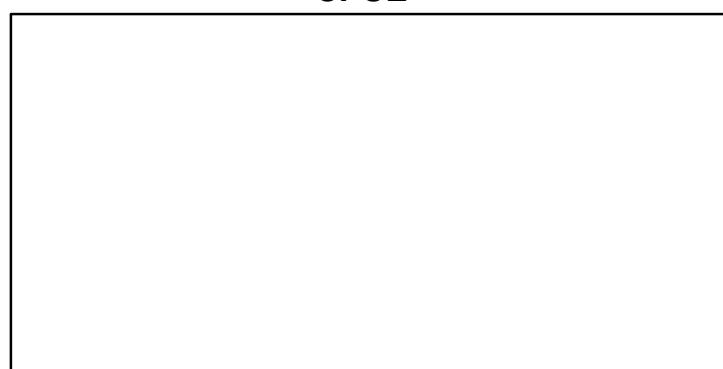
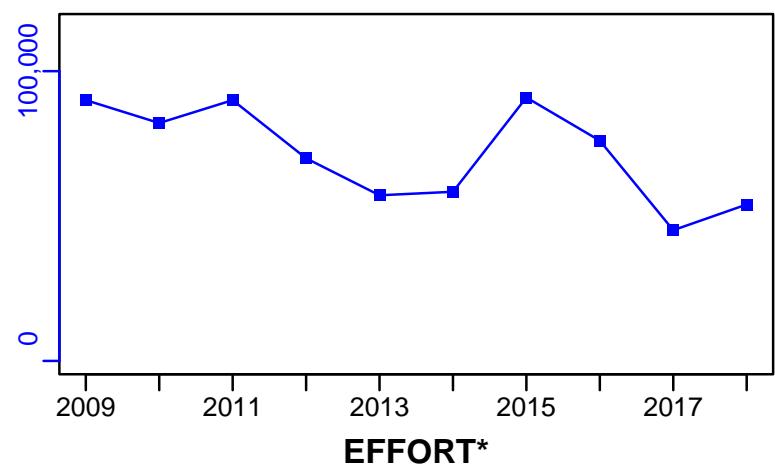
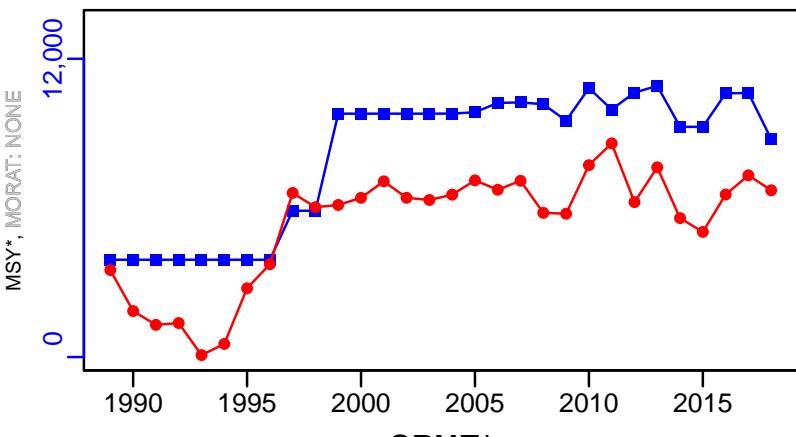
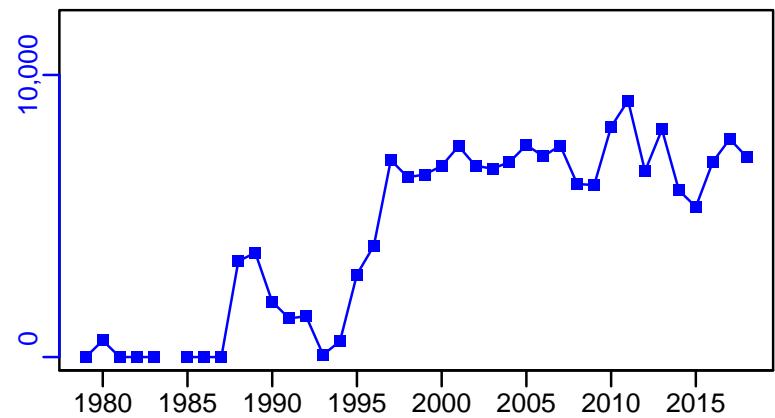


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Northern shrimp Nunavut/Nunavik East [PANDALNUNE]

TL-MT, TC*, RecC* (1979–2018–ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1979–2018–ASHBROOK)



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

Northern shrimp Nunavut/Nunavik West [PANDALNUNW]

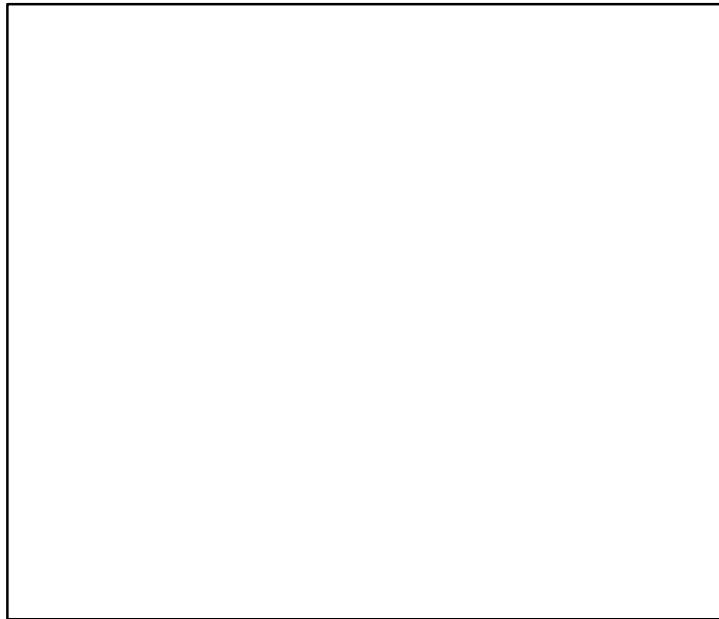
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-ARCTIC-PANDALNUNW-2006-2018-ASHBROOK
Area	Nunavut/Nunavik West
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Arctic Region
Asmts in RAM	2018

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

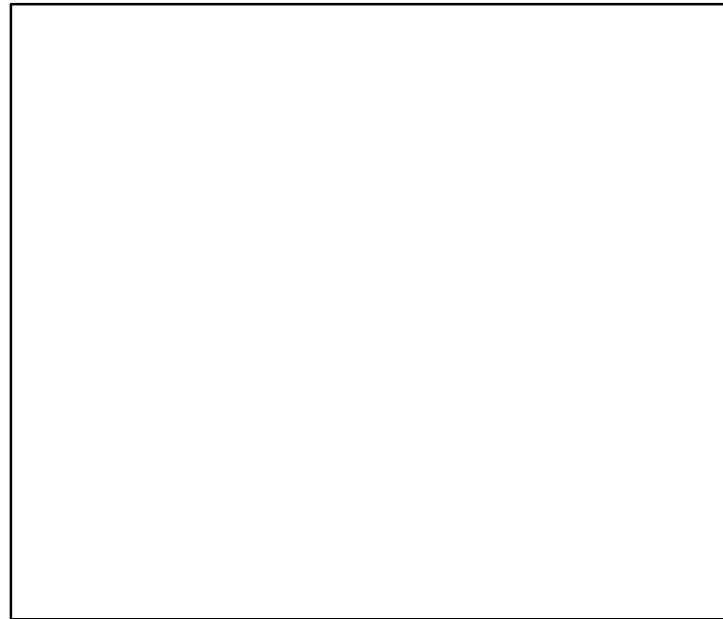
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	1307		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Nunavut/Nunavik West [PANDALNUNW]

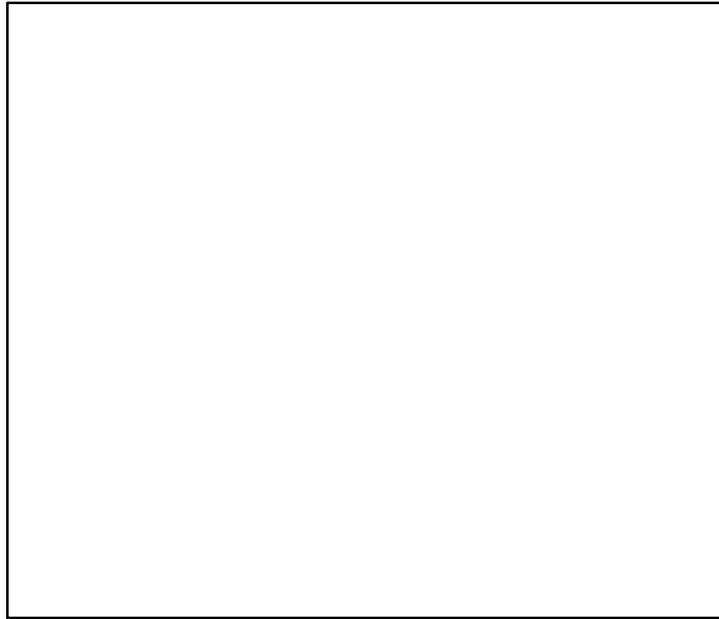
Kobe MSY*



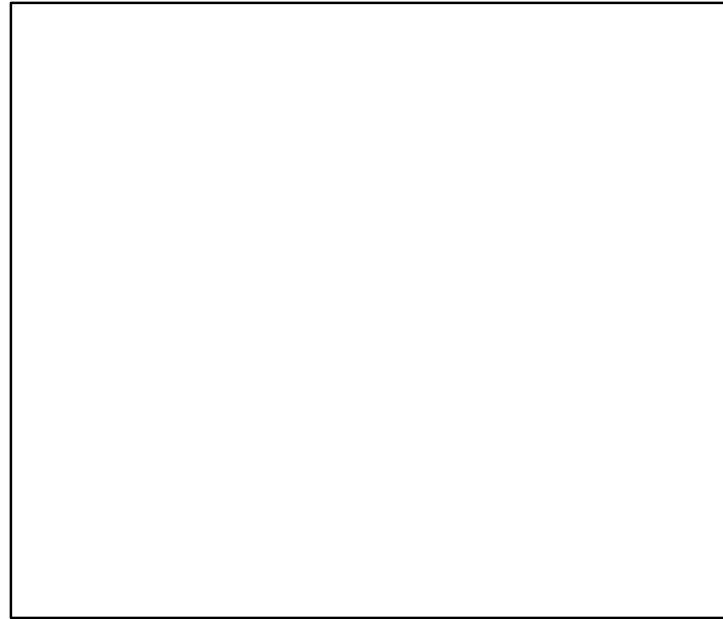
Kobe MGT*



Spawner Recruit*



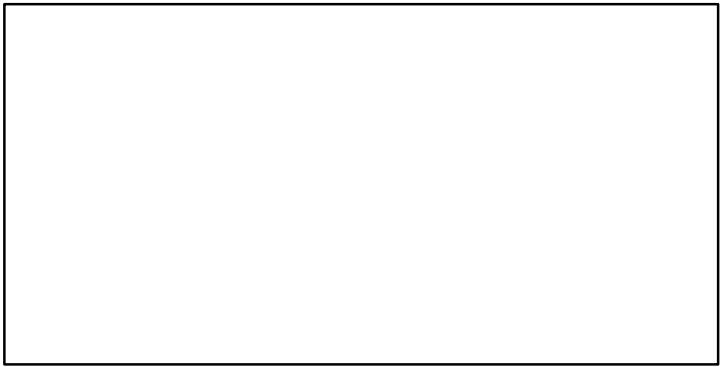
Production*



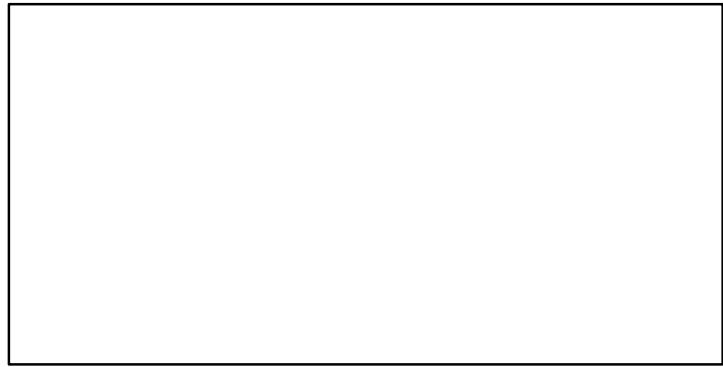
◆ Start Year ◆ End Year * No Data

Northern shrimp Nunavut/Nunavik West [PANDALNUNW]

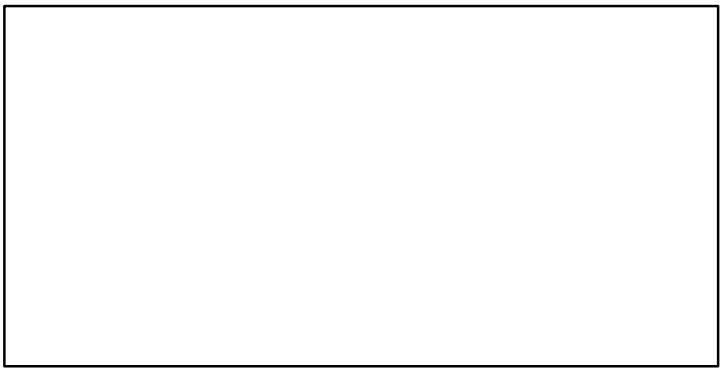
TB*



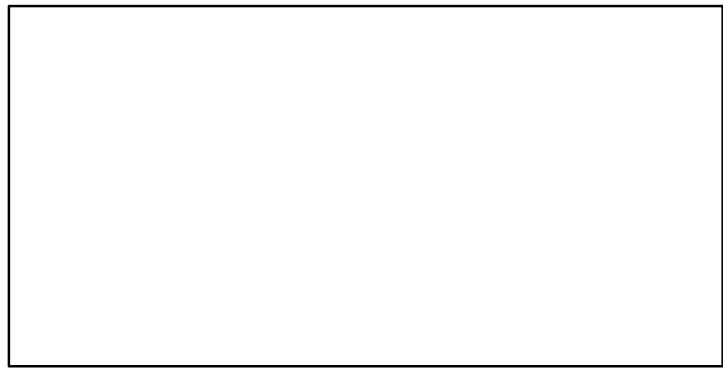
SSB*



TN *



F*



ER*



Recruits*

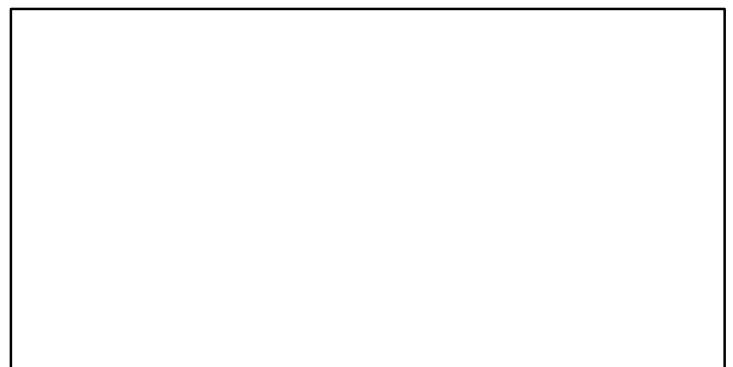
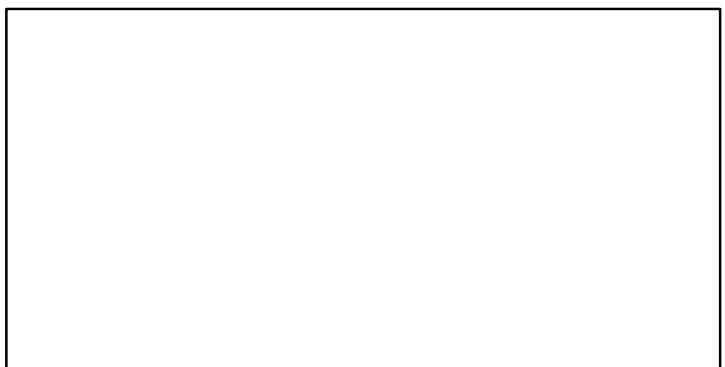
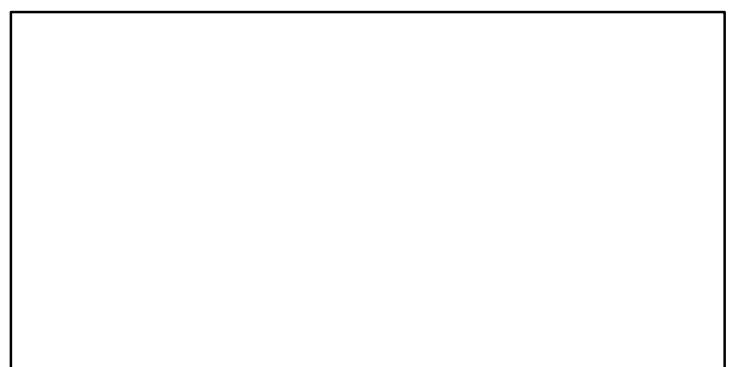
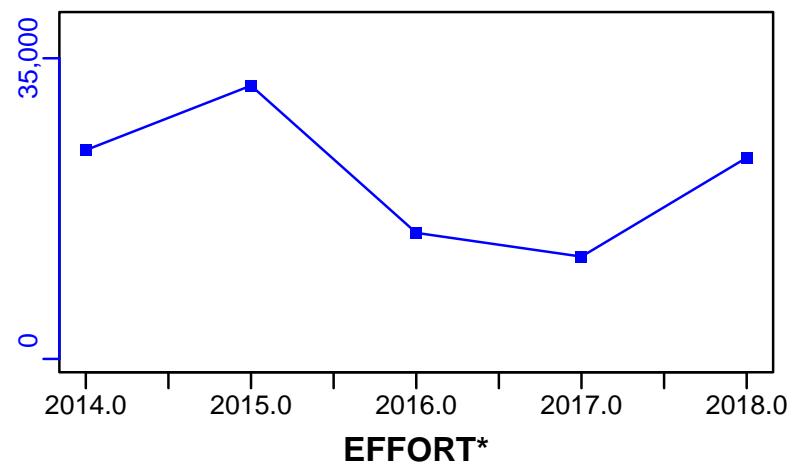
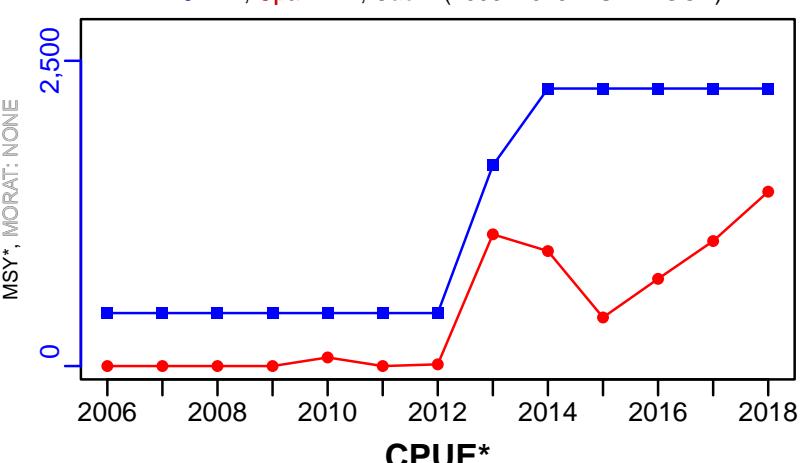
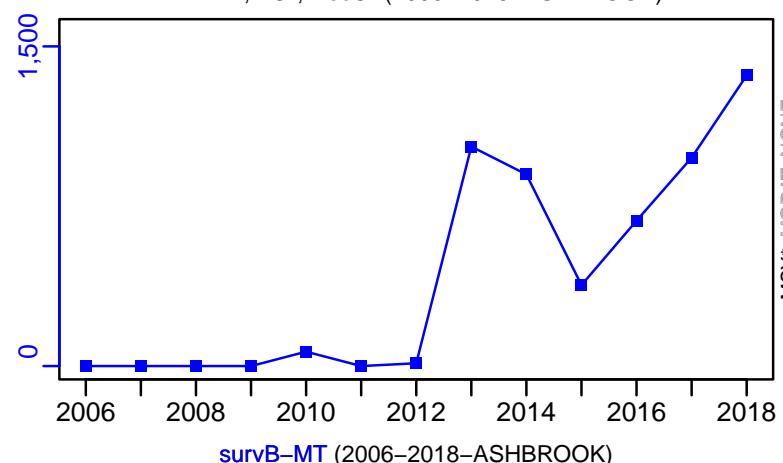


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Nunavut/Nunavik West [PANDALNUNW]

TL-MT, TC*, RecC* (2006–2018–ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (2006–2018–ASHBROOK)



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

Northern shrimp Shrimp Fishing Area 10 [PANDALSFA10]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-QUE-PANDALSFA10-1974-2017-ASHBROOK
Area	Shrimp Fishing Area 10
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	7352		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 10 [PANDALSFA10]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 10 [PANDALSFA10]

TB*



SSB*



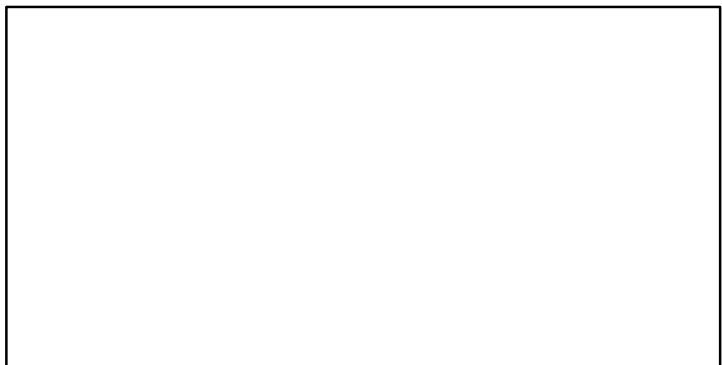
TN *



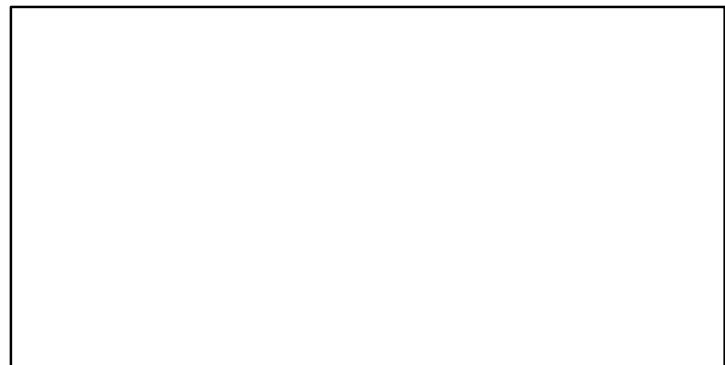
F*



ER*



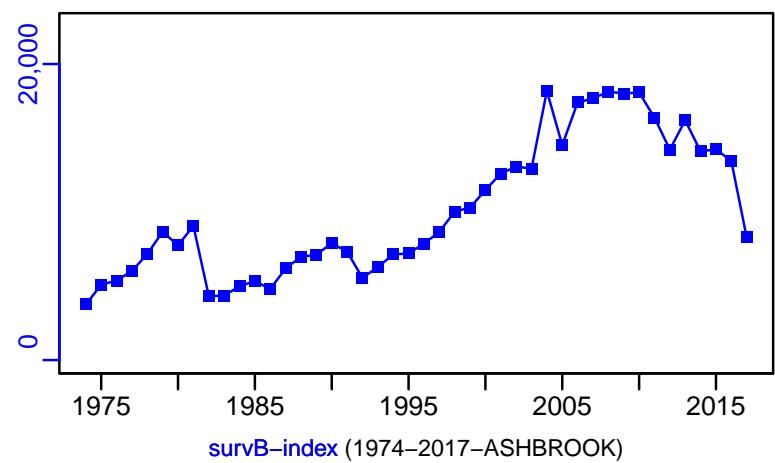
Recruits*



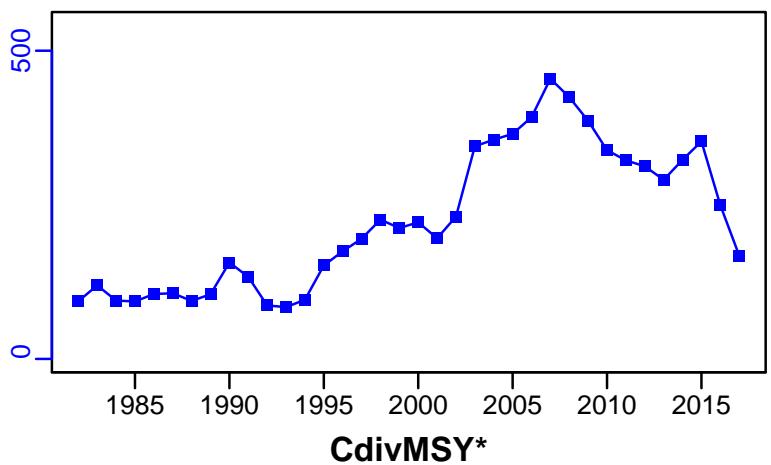
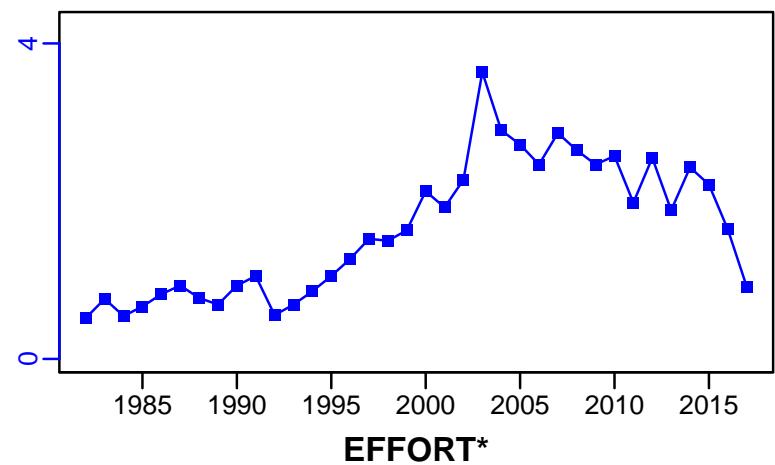
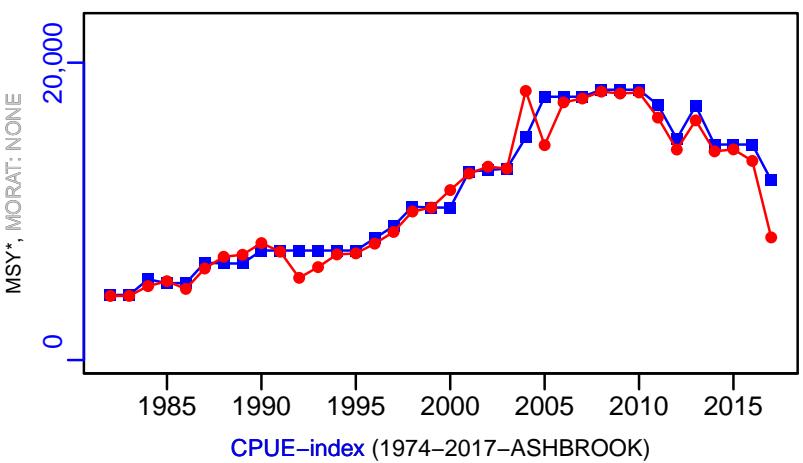
- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Shrimp Fishing Area 10 [PANDALSFA10]

TL-MT, TC*, RecC* (1974–2017–ASHBROOK)



TAC-MT, Cpair-MT, Cadv* (1974–2017–ASHBROOK)



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

Northern shrimp Shrimp Fishing Area 12 [PANDALSFA12]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-QUE-PANDALSFA12-1980-2017-ASHBROOK
Area	Shrimp Fishing Area 12
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2017

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	903		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 12 [PANDALSFA12]

Kobe MSY*

Kobe MGT*

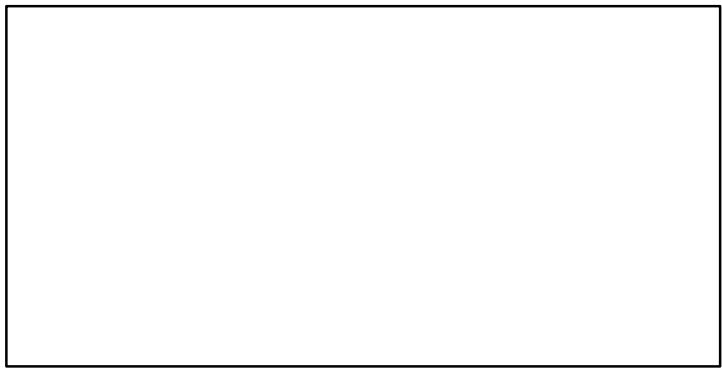
Spawner Recruit*

Production*

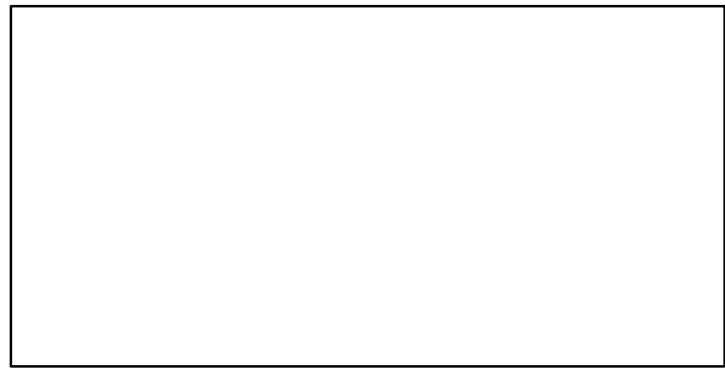
◆ Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 12 [PANDALSFA12]

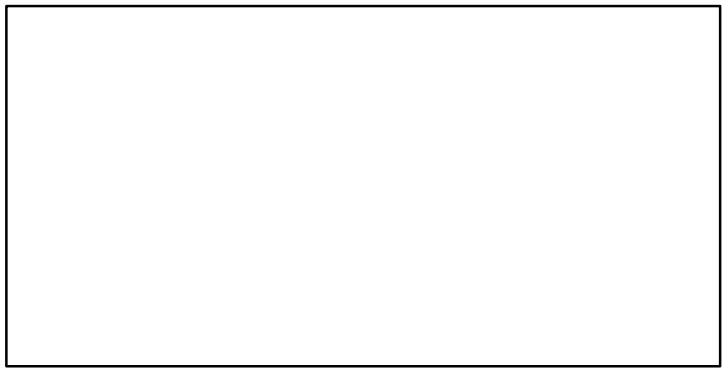
TB*



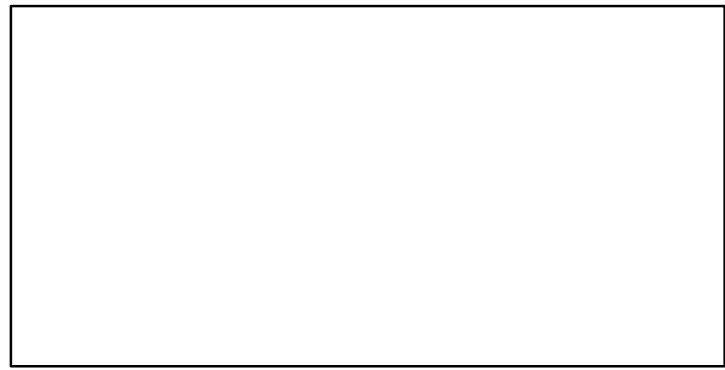
SSB*



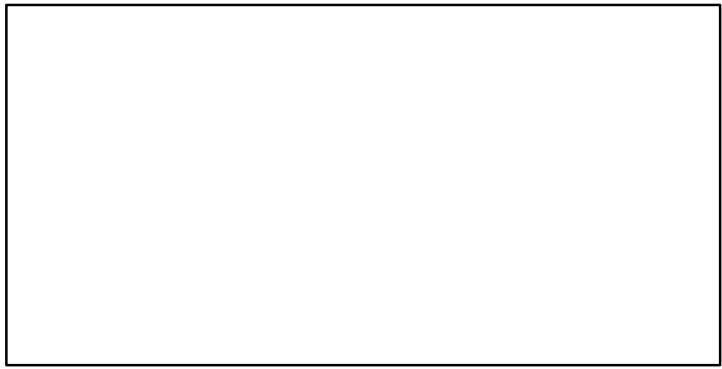
TN *



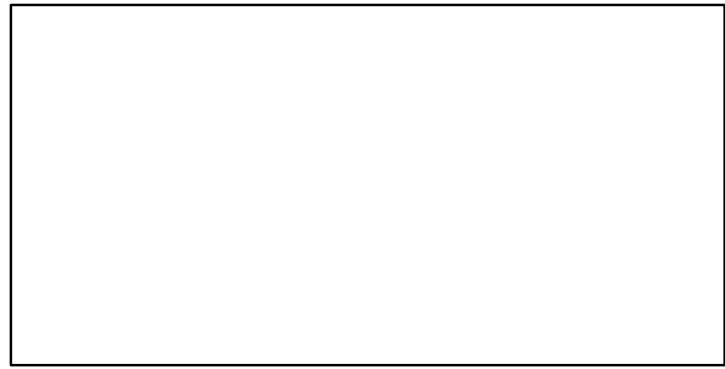
F*



ER*



Recruits*

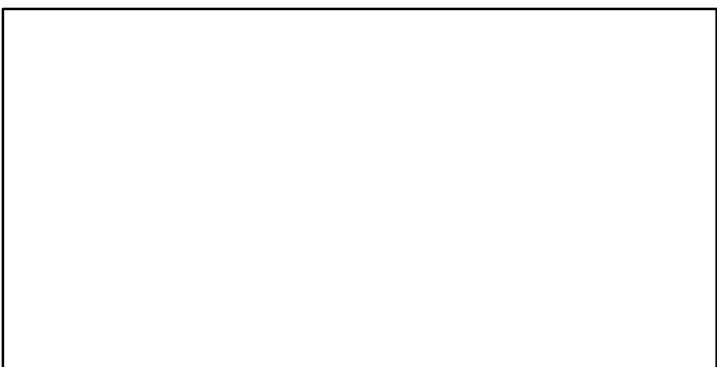
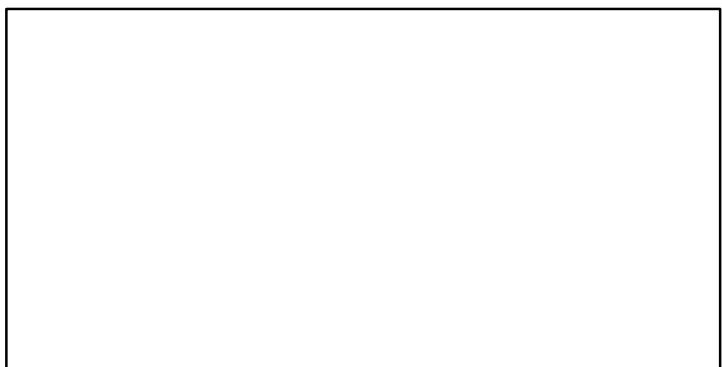
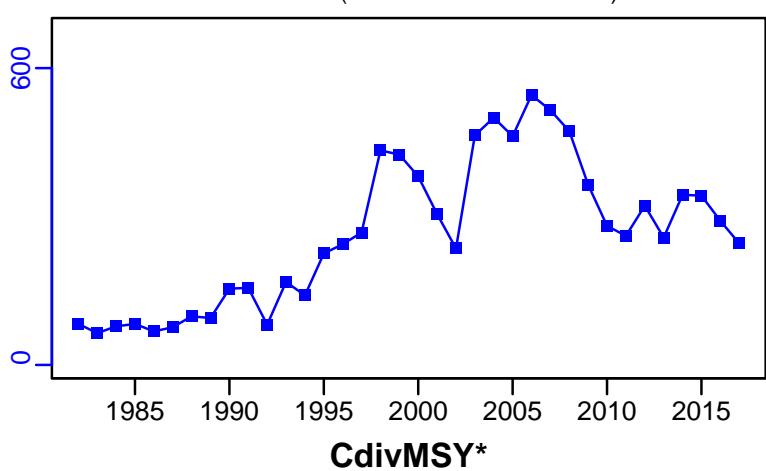
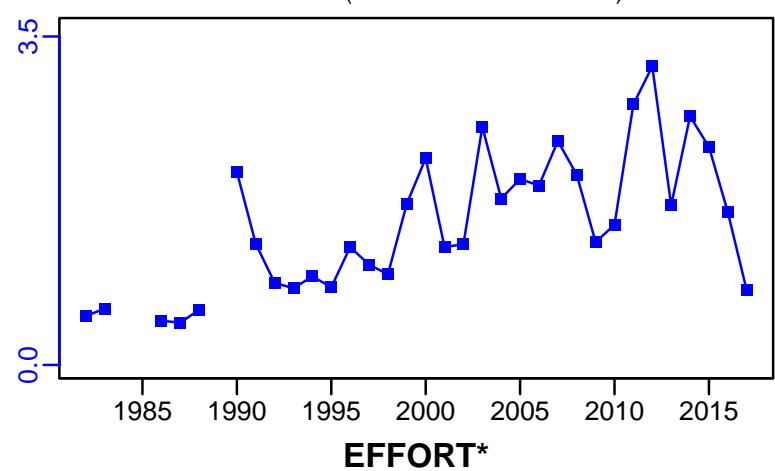
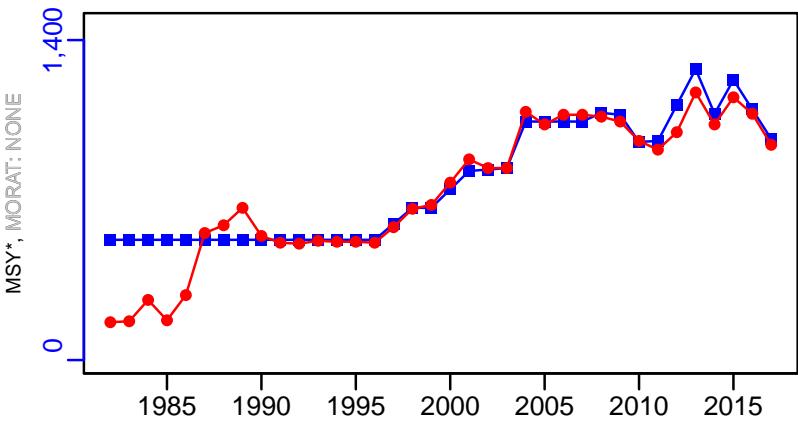
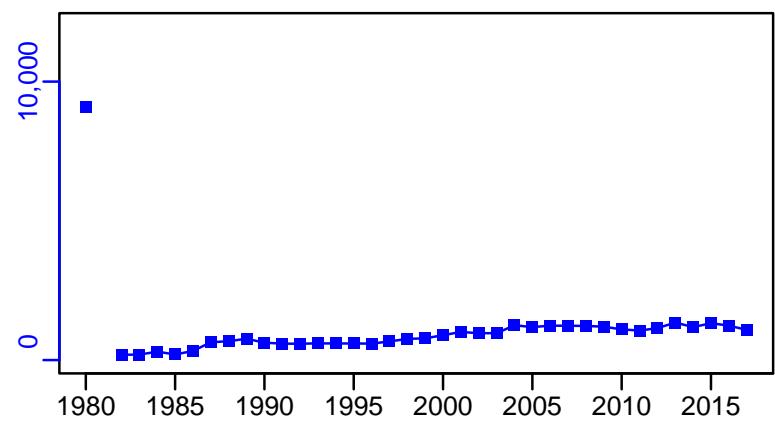


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Shrimp Fishing Area 12 [PANDALSFA12]

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

TAC-MT, Cpair-MT, Cadv* (1980–2017-ASHBROOK)



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

Northern shrimp Eastern Scotian Shelf (SFA 13-15) [PANDALSFA13-15]

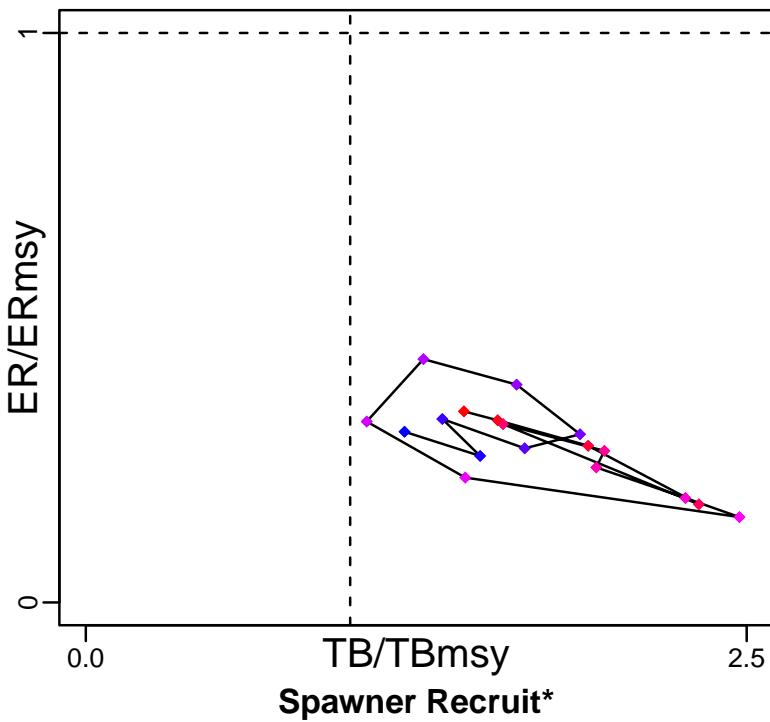
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-MAR-PANDALSFA13-15-1979-2018-ASHBROOK
Area	Eastern Scotian Shelf (SFA 13-15)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2011, 2018, 2012

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

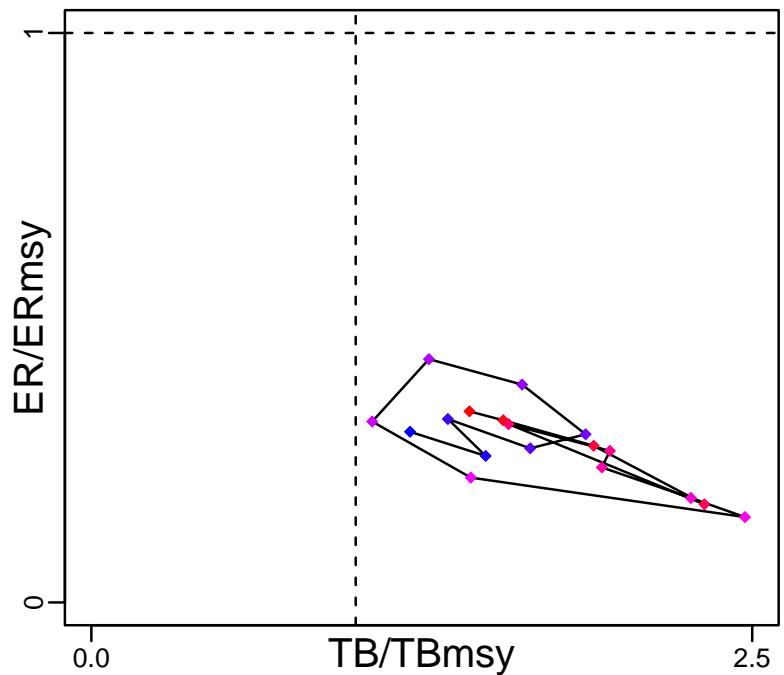
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	28,000	-	-
SSB	SSB-index	2011	16,800	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.15	Both	-
TC	TC-MT	2012	3650		
TL	TL-MT	2018	2400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERrmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Eastern Scotian Shelf (SFA 13–15) [PANDALSFA13–15]

Kobe MSYref (1980–2012–WATSON)

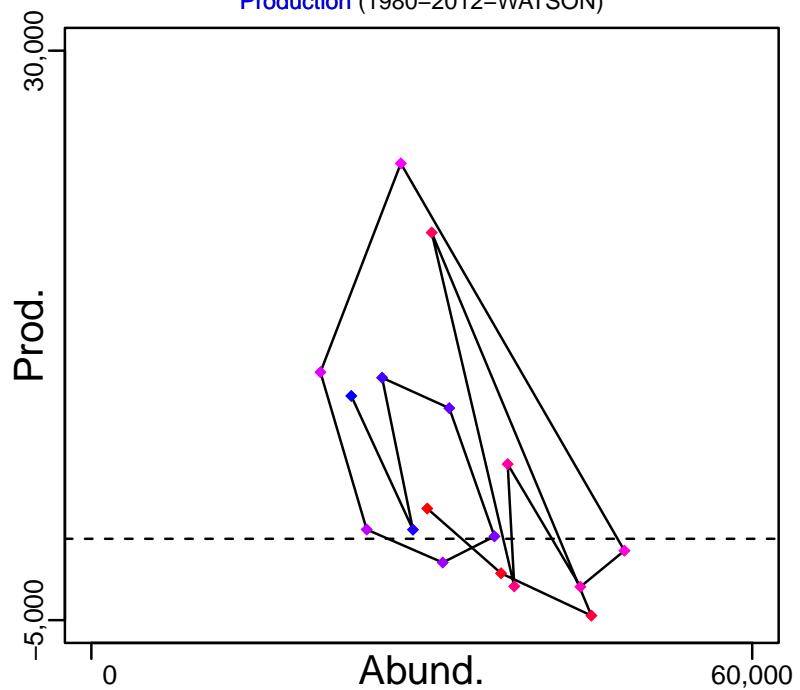
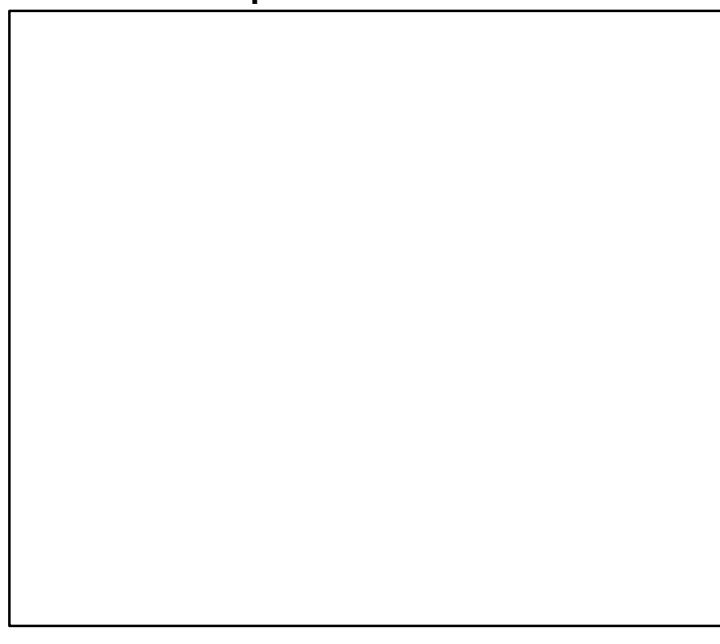


Kobe MGTref (1980–2012–WATSON)



Spawner Recruit*

Production (1980–2012–WATSON)

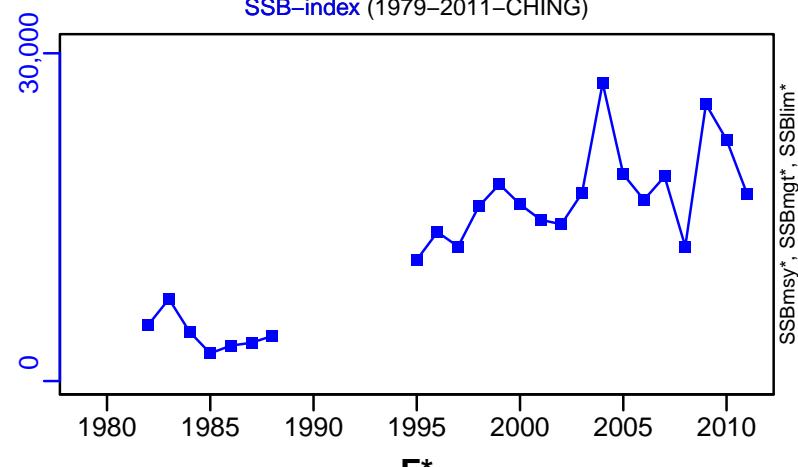
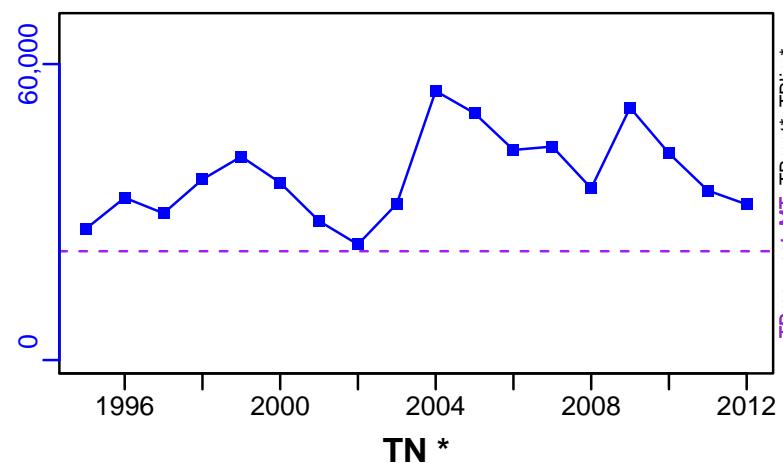


◆ Start Year ◆ End Year * No Data

Northern shrimp Eastern Scotian Shelf (SFA 13–15) [PANDALSFA13–15]

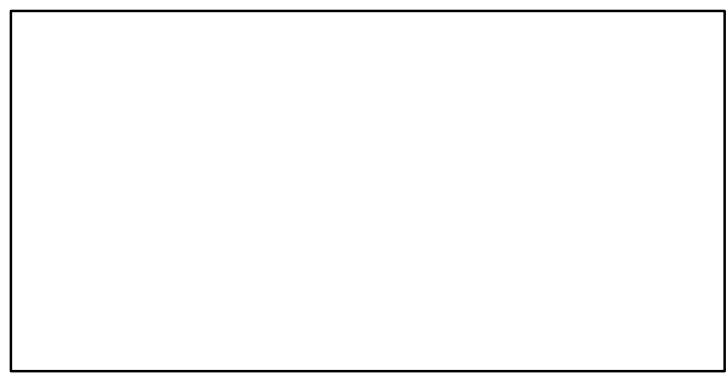
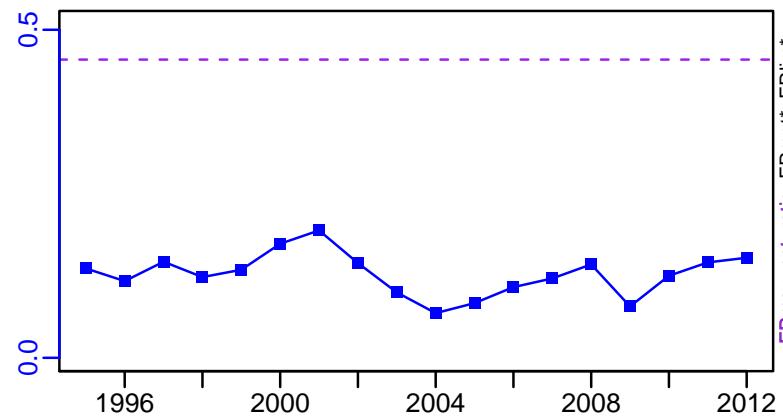
TB-MT (1980–2012-WATSON)

SSB-index (1979–2011-CHING)



ER-ratio (1980–2012-WATSON)

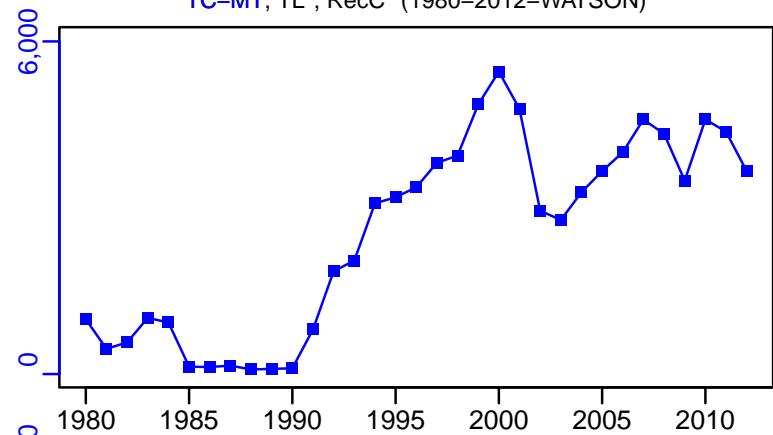
Recruits*



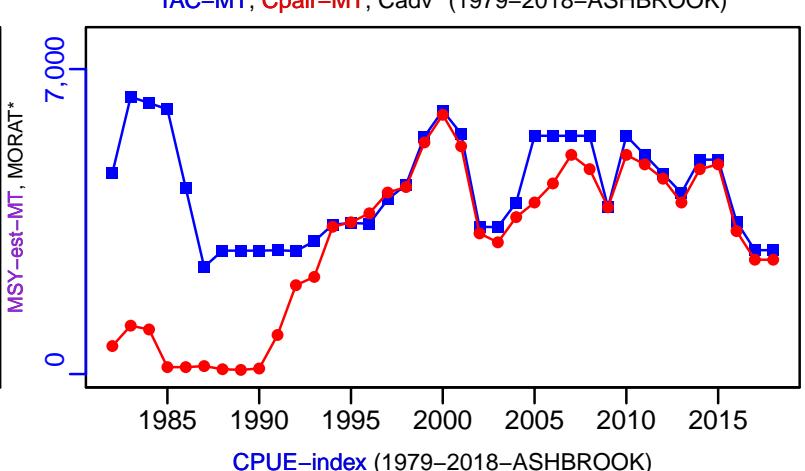
■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	— Lim BRP	* No Data

Northern shrimp Eastern Scotian Shelf (SFA 13–15) [PANDALSFA13–15]

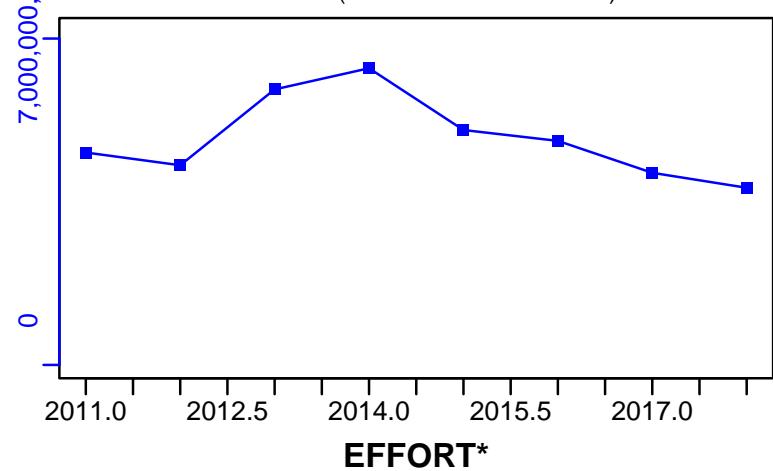
TC-MT, TL*, RecC* (1980–2012-WATSON)



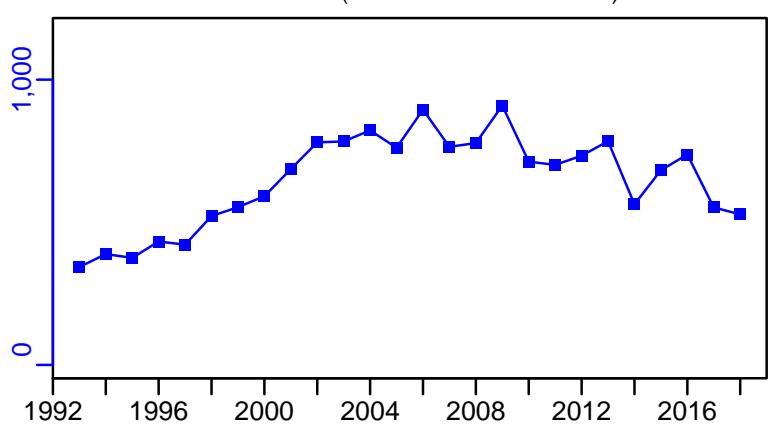
TAC-MT, Cpair-MT, Cadv* (1979–2018-ASHBROOK)



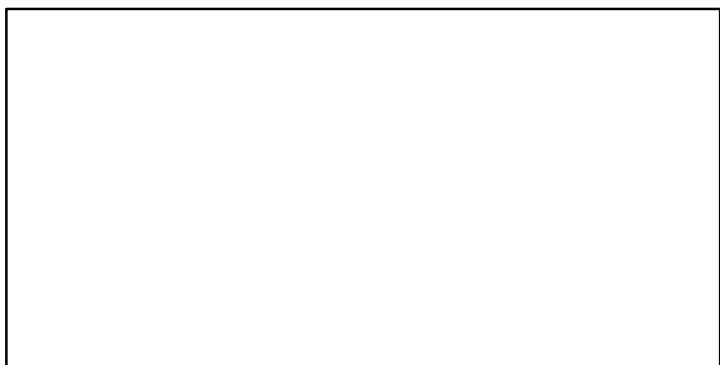
survB-E00 (1979–2018-ASHBROOK)



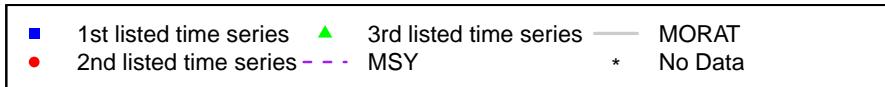
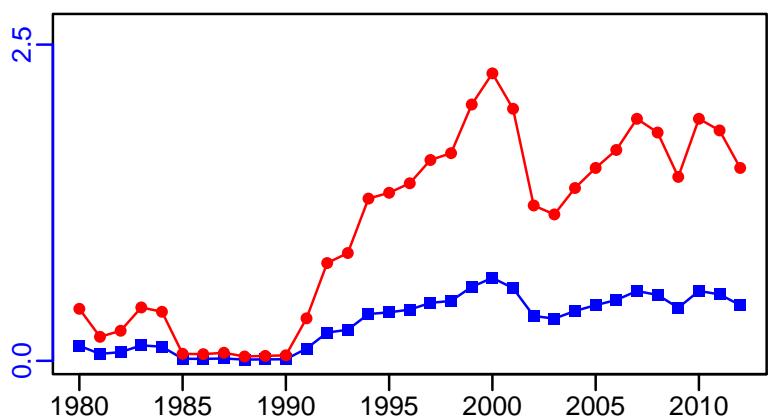
CPUE-index (1979–2018-ASHBROOK)



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1980–2012-WATSON)



Northern shrimp Shrimp Fishing Areas 2-3 [PANDALSFA2-3]

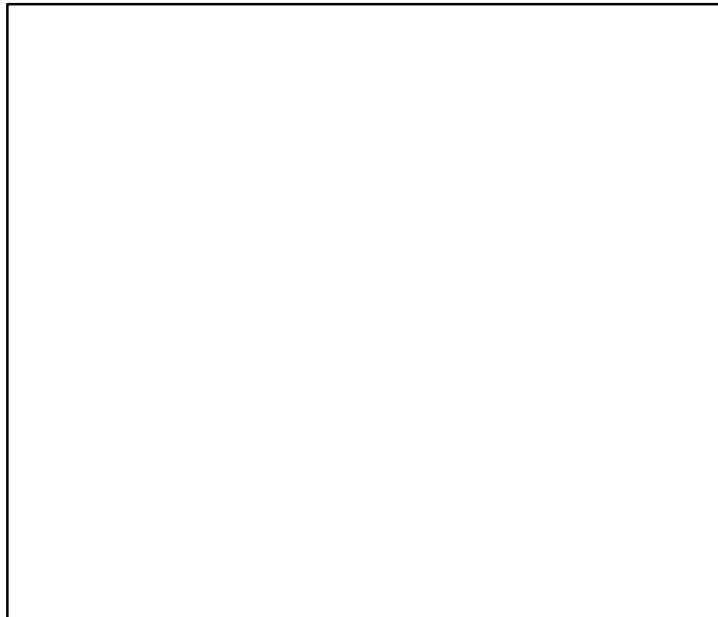
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-ARCTIC-PANDALSFA2-3-1979-2015-WATSON
Area	Shrimp Fishing Areas 2-3
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Arctic Region
Asmts in RAM	2015, 2010

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

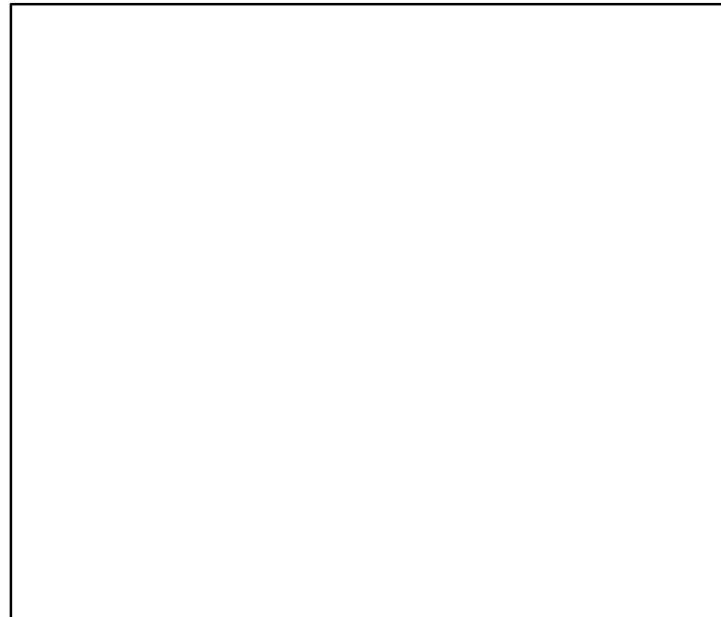
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-index	2015	108,000	-	-	
SSB	SSB-index	2015	75,600	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2015	4760			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Northern shrimp Shrimp Fishing Areas 2–3 [PANDALSFA2–3]

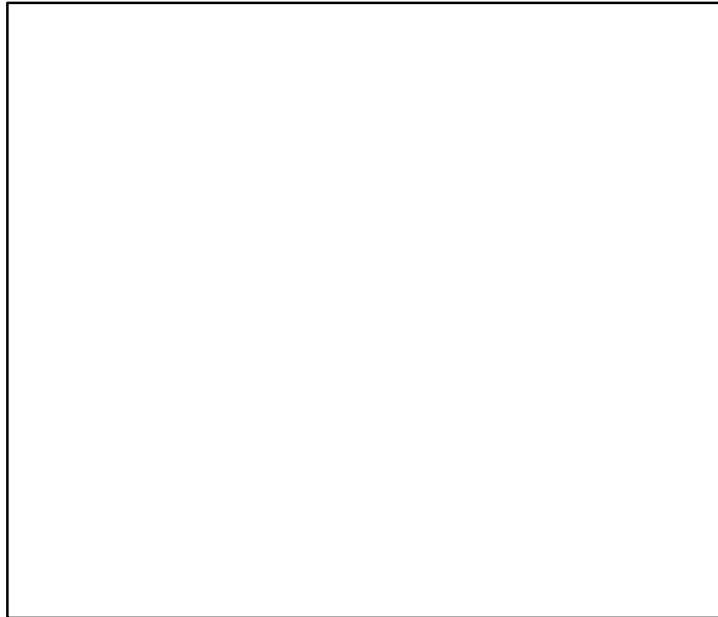
Kobe MSY*



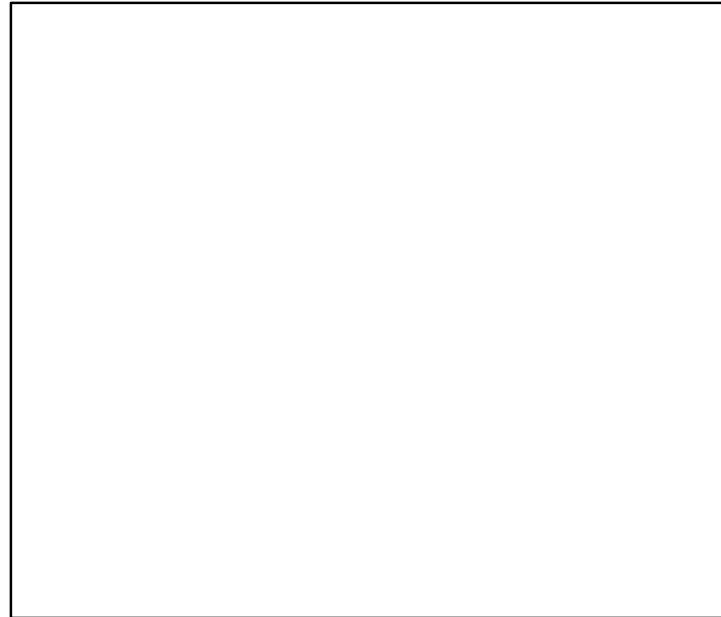
Kobe MGT*



Spawner Recruit*



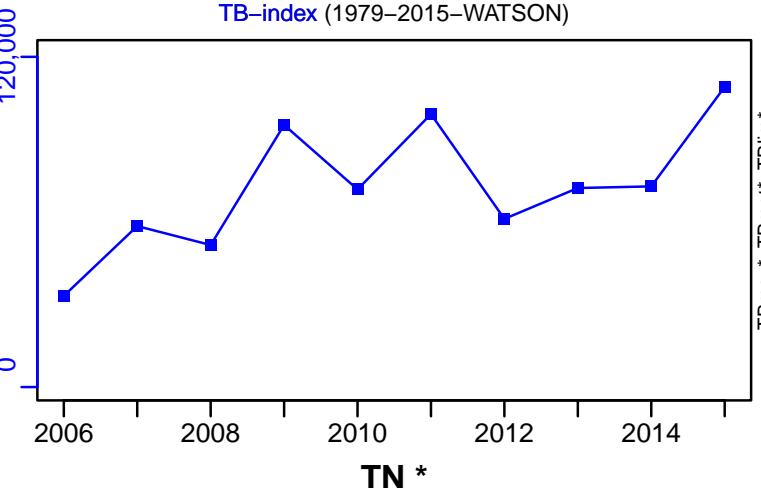
Production*



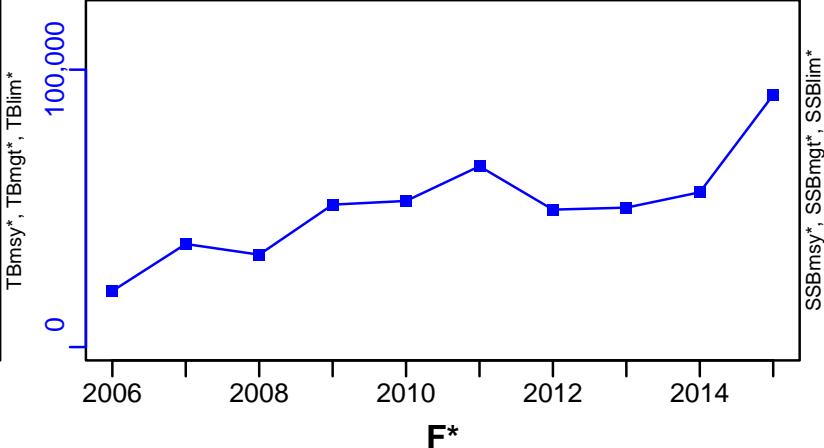
◆ Start Year ♦ End Year * No Data

Northern shrimp Shrimp Fishing Areas 2–3 [PANDALSFA2–3]

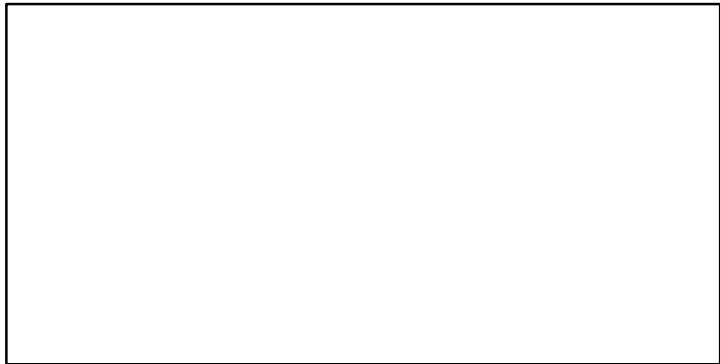
TB-index (1979–2015–WATSON)



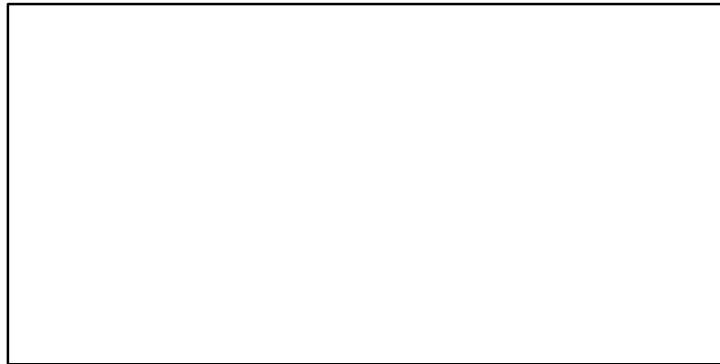
SSB-index (1979–2015–WATSON)



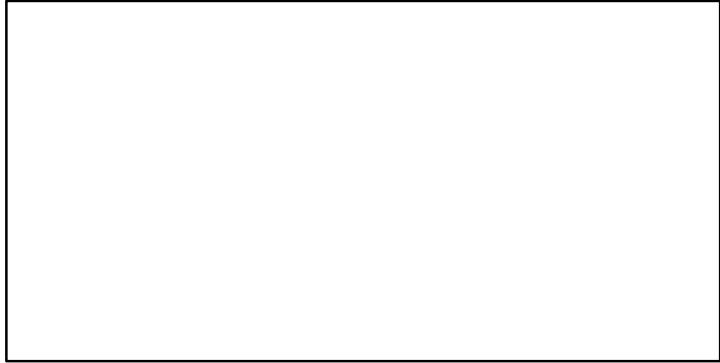
TN*



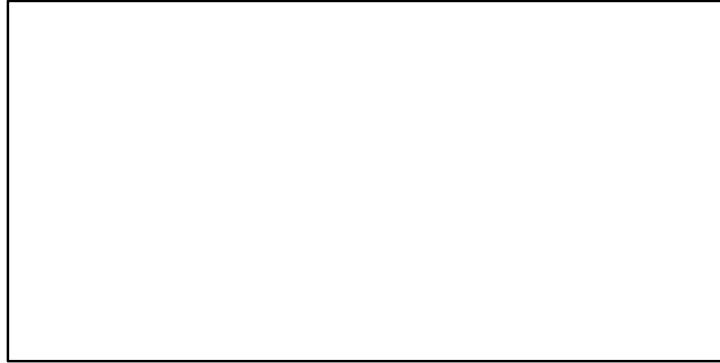
F*



ER*



Recruits*

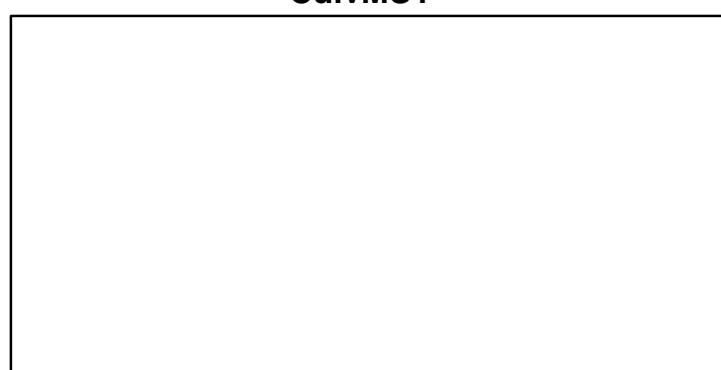
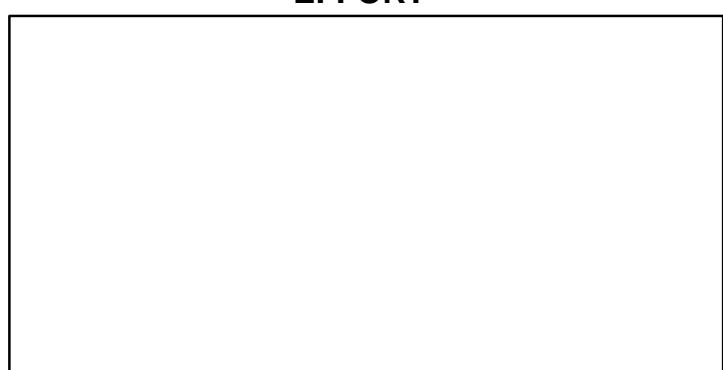
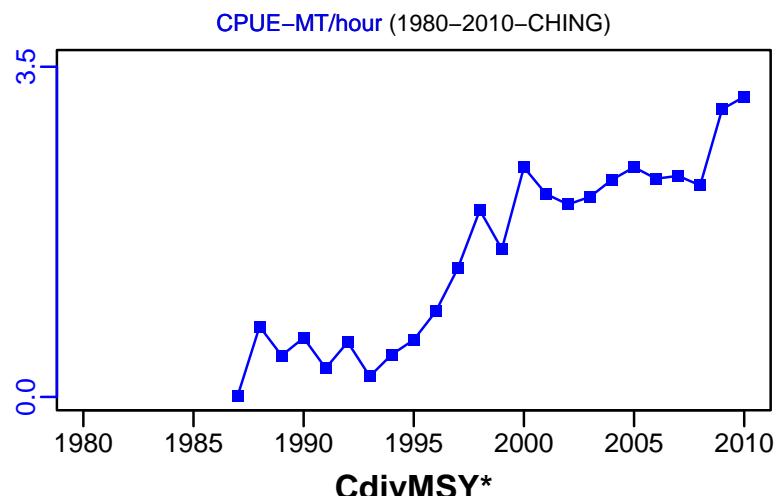
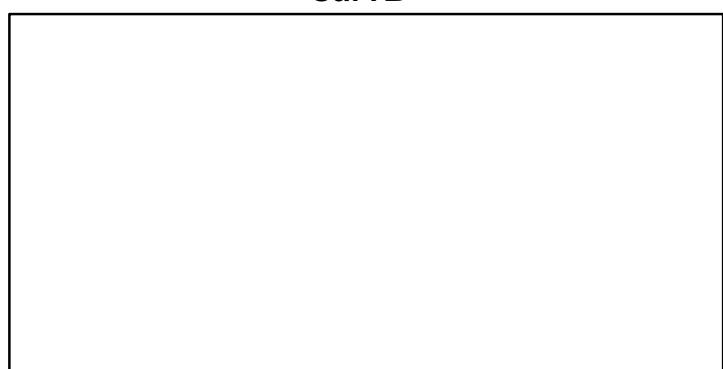
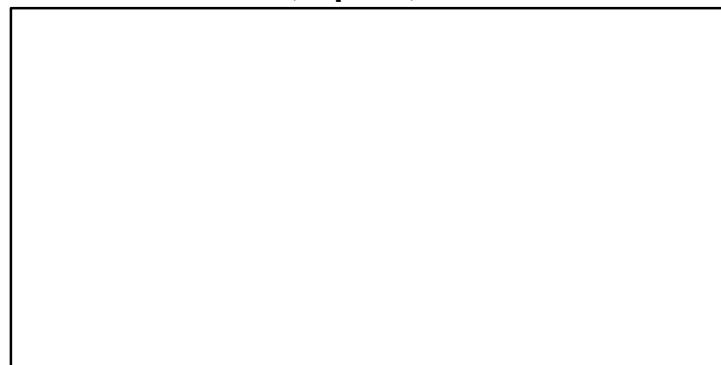
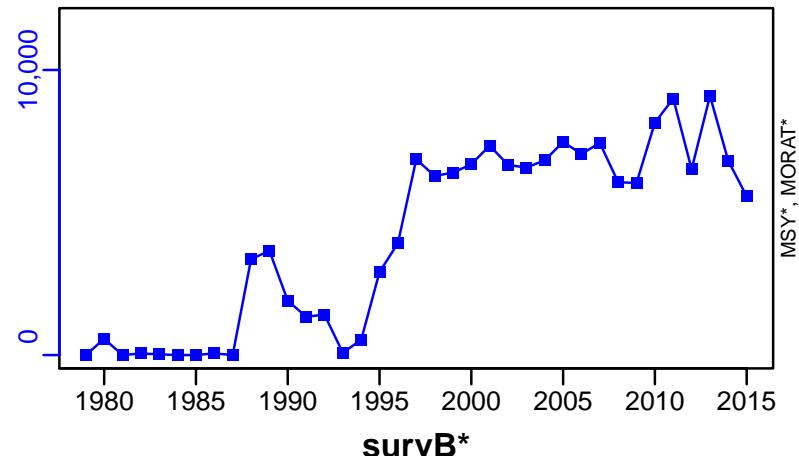


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | ··· Lim BRP | * No Data |

Northern shrimp Shrimp Fishing Areas 2–3 [PANDALSFA2–3]

TC-MT, TL*, RecC* (1979–2015-WATSON)

TAC*, Cpair*, Cadv*



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

Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

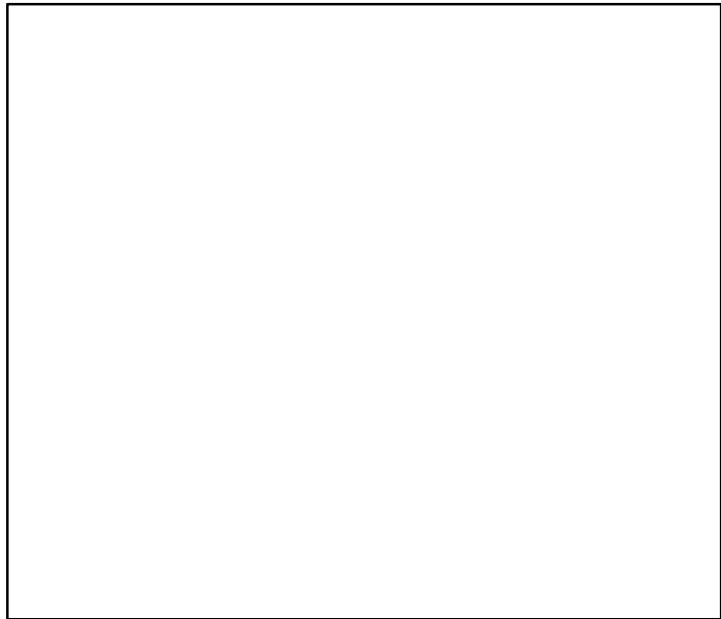
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-NFLD-PANDALSFA4-1978-2018-ASHBROOK
Area	Shrimp Fishing Area 4
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2018, 2012

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

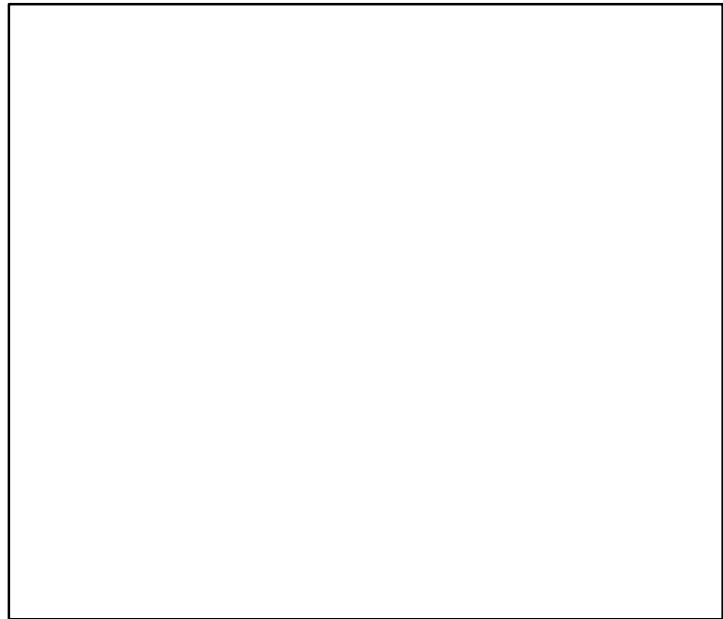
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	13,100		
TL	TL-MT	2018	15,016		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

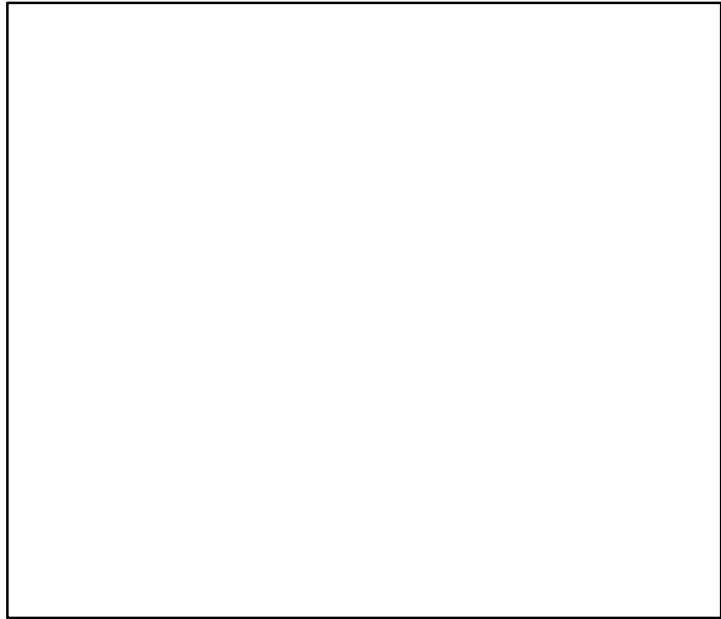
Kobe MSY*



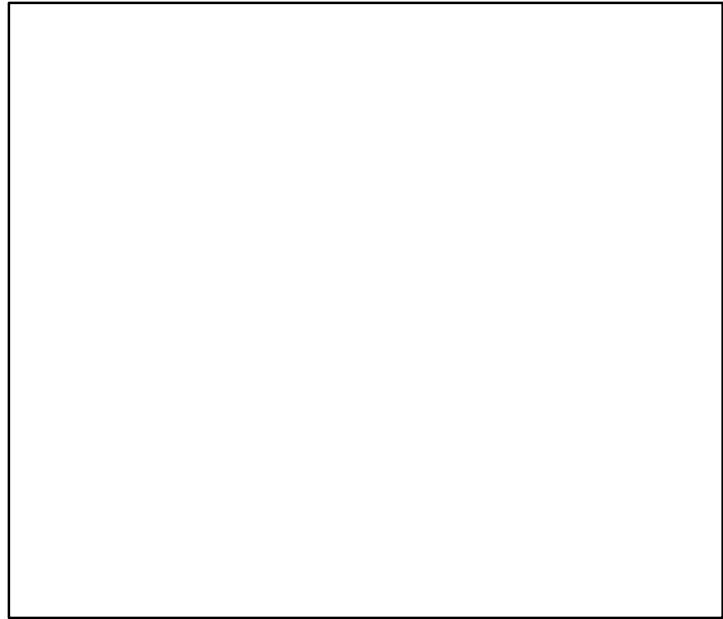
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

TB*



SSB*



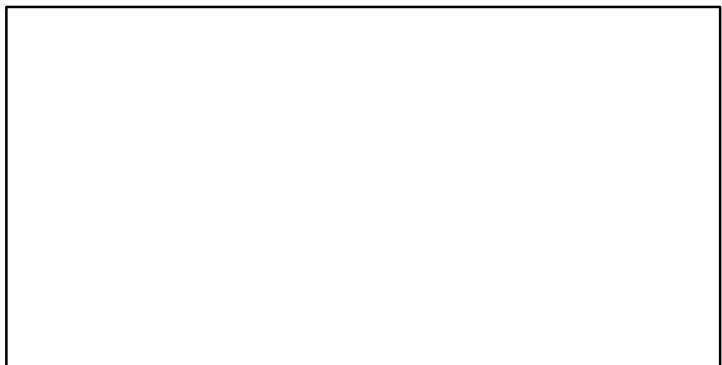
TN *



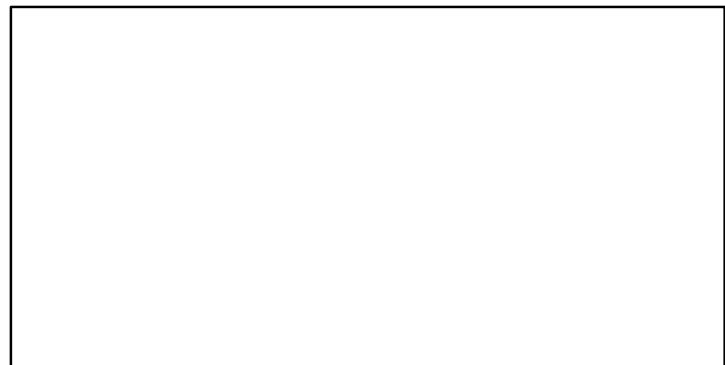
F*



ER*



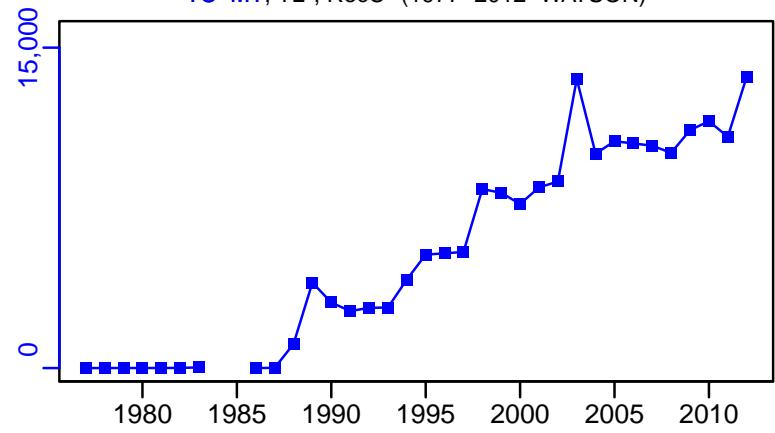
Recruits*



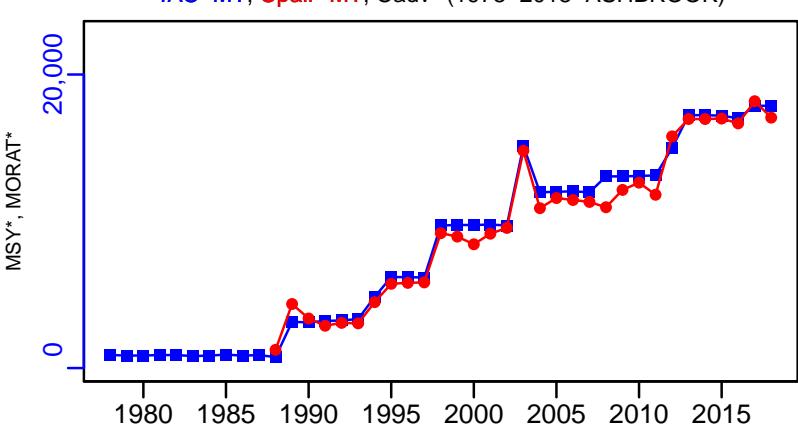
- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

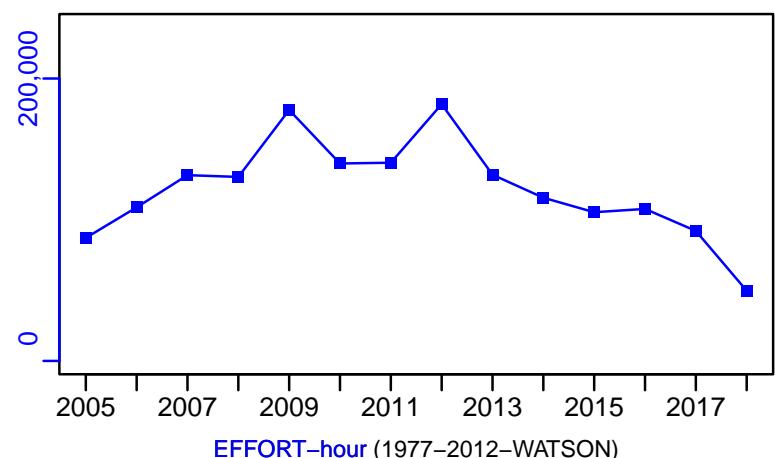
TC-MT, TL*, RecC* (1977–2012-WATSON)



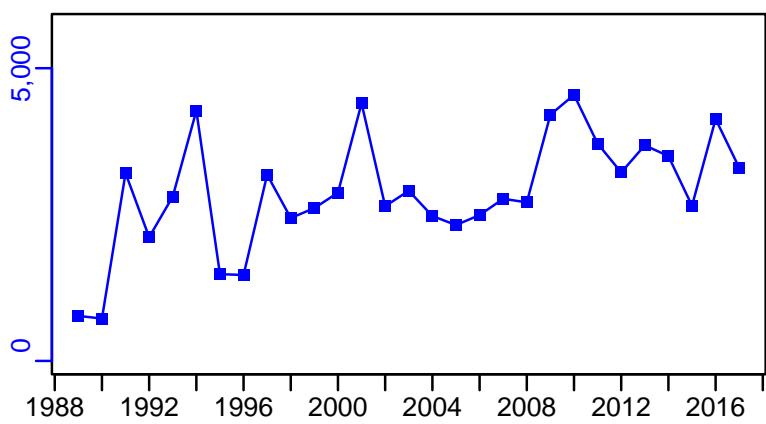
TAC-MT, Cpair-MT, Cadv* (1978–2018-ASHBROOK)



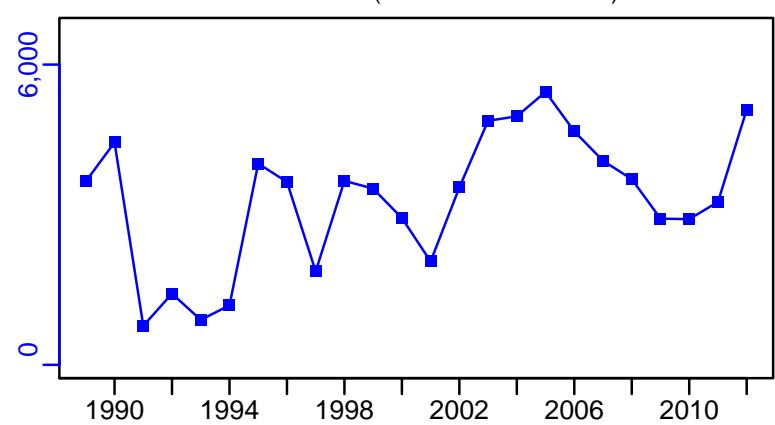
survB-MT (1978–2018-ASHBROOK)



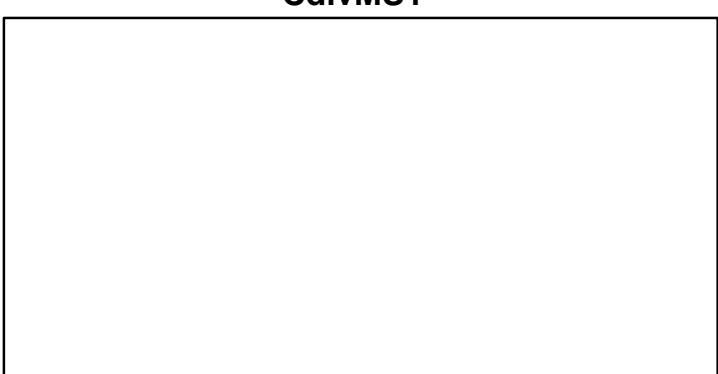
CPUE-index (1978–2018-ASHBROOK)



EFFORT-hour (1977–2012-WATSON)



CdivMSY*



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

Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

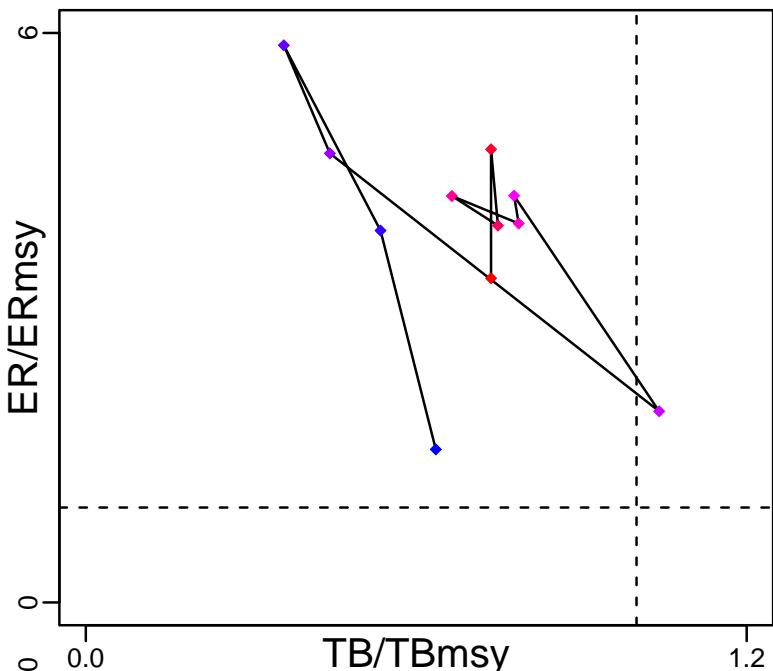
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-NFLD-PANDALSFA5-1977-2018-ASHBROOK
Area	Shrimp Fishing Area 5
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2018, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2012	14,300
Flim	-	-	-
ERlim	-	-	-

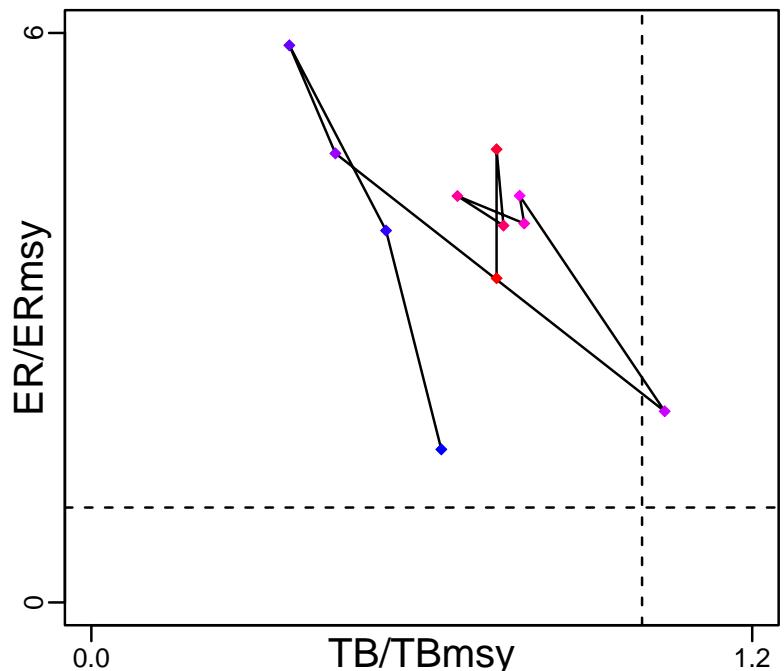
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	176,000	Both	-
SSB	SSB-MT	2012	63,000	-	-
TN	TN-E00	2012	4.38×10^{10}	-	-
R	R-E00	2012	1.3×10^{10}	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.103	-	-
TC	TC-MT	2012	18,100		
TL	TL-MT	2018	17,119		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

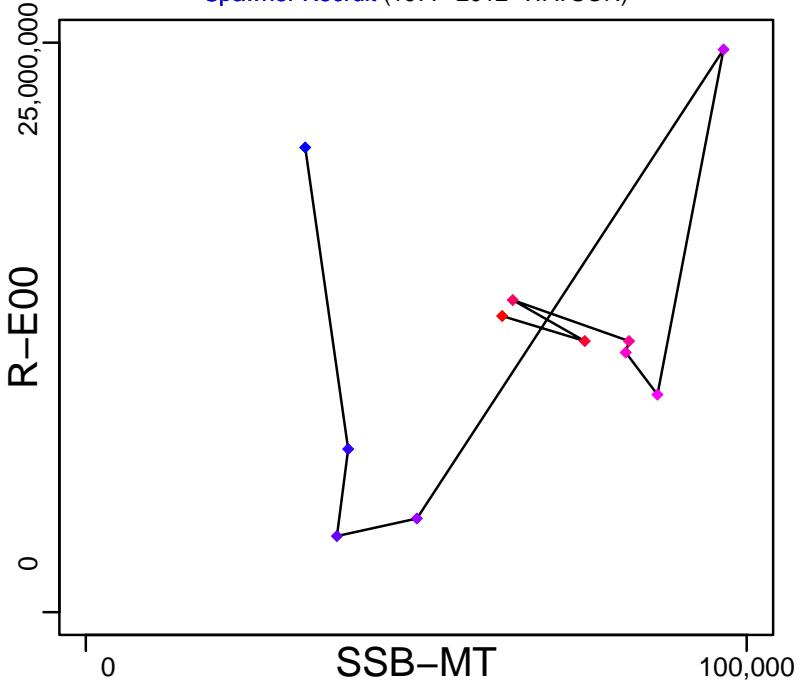
Kobe MSYpref (1977–2012–WATSON)



Kobe MGTpref (1977–2012–WATSON)



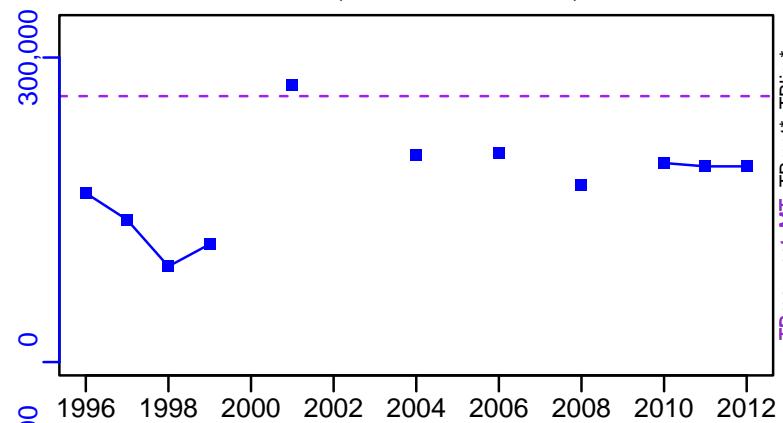
Spawner Recruit (1977–2012–WATSON)



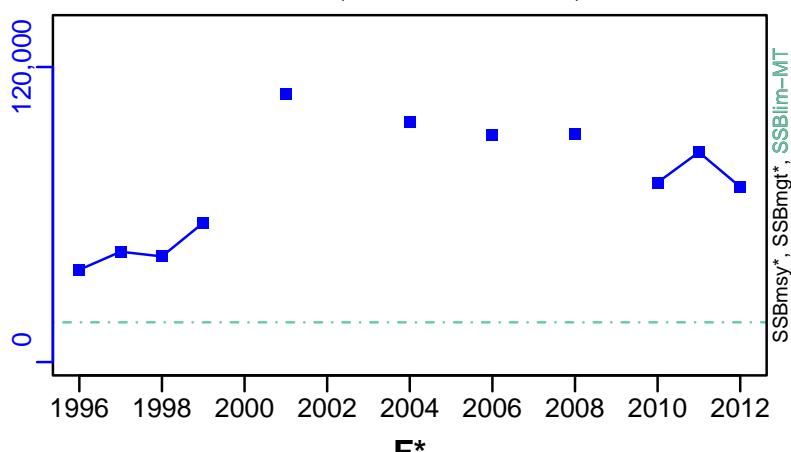
◆ Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

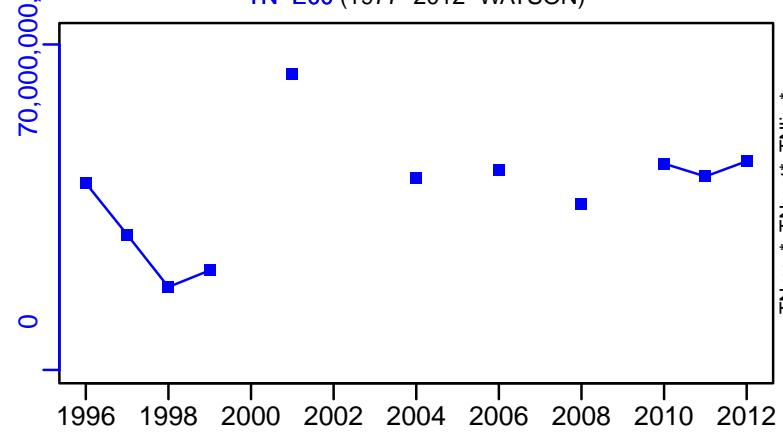
TB-MT (1977–2012-WATSON)



SSB-MT (1977–2012-WATSON)



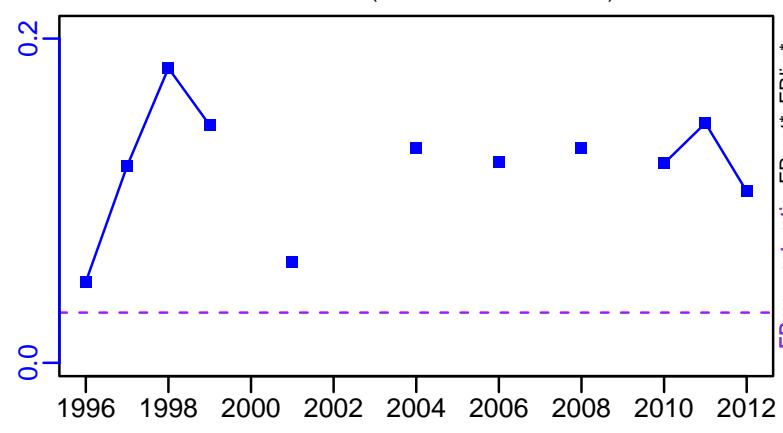
TN-E00 (1977–2012-WATSON)



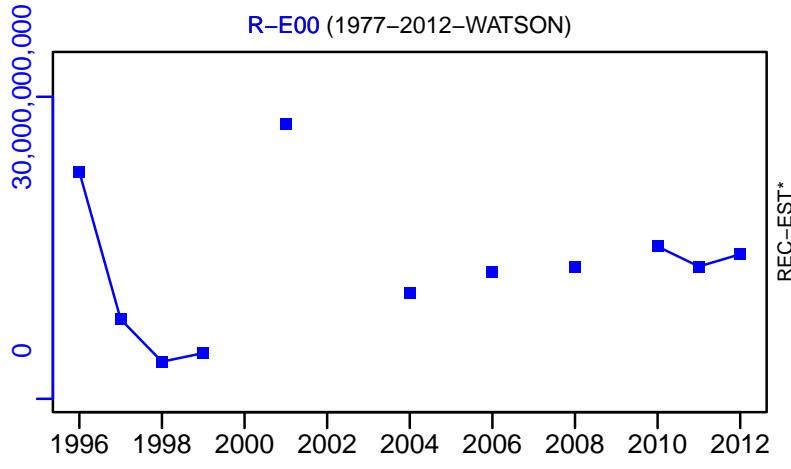
F*



ER-calc-ratio (1977–2012-WATSON)



R-E00 (1977–2012-WATSON)

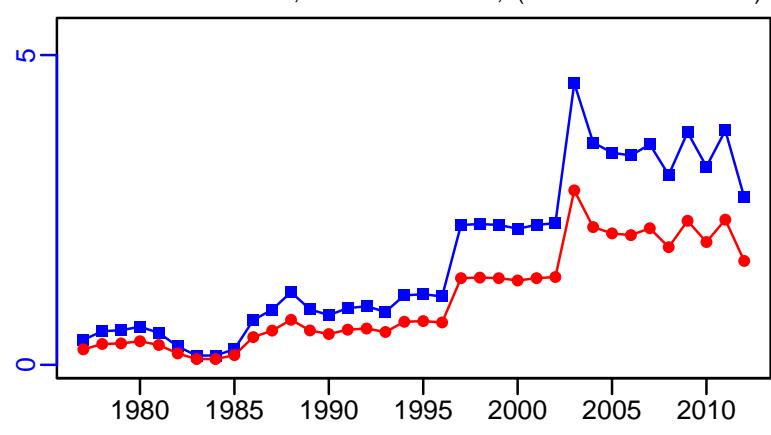
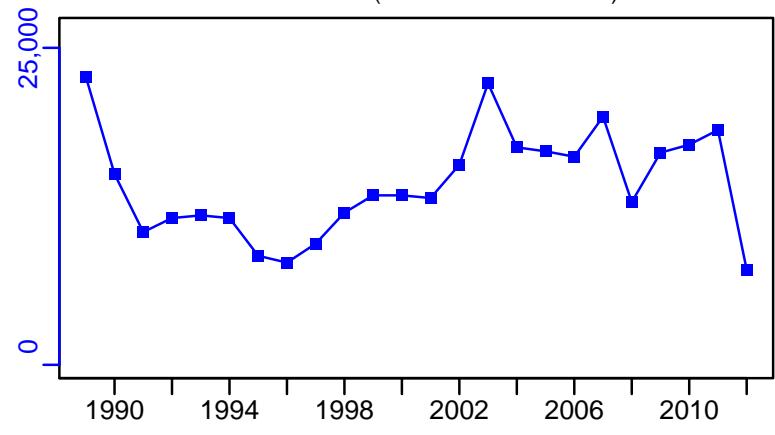
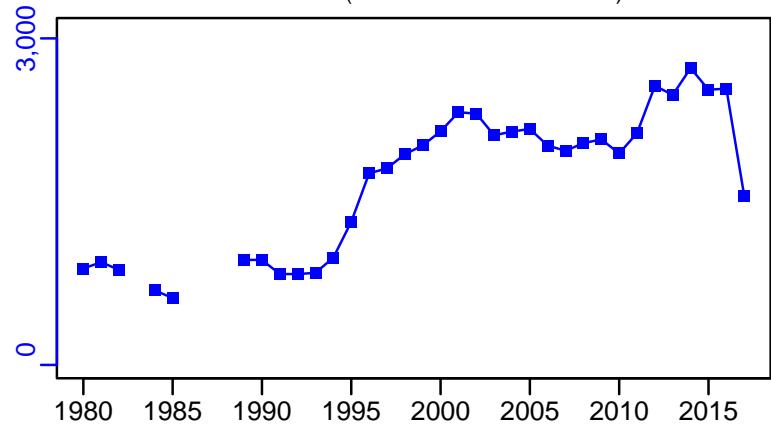
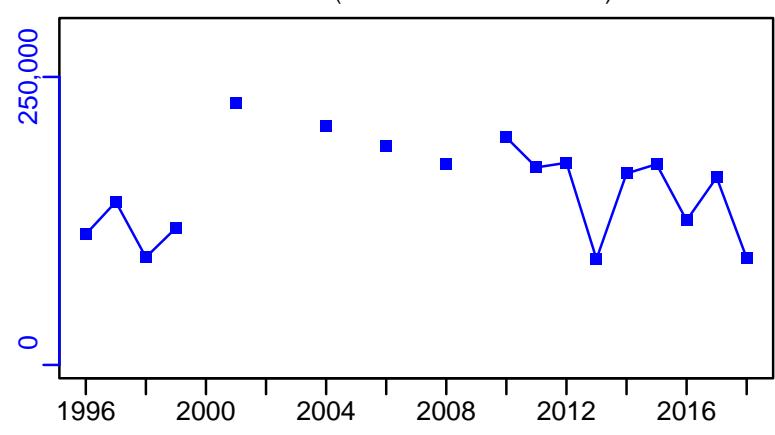
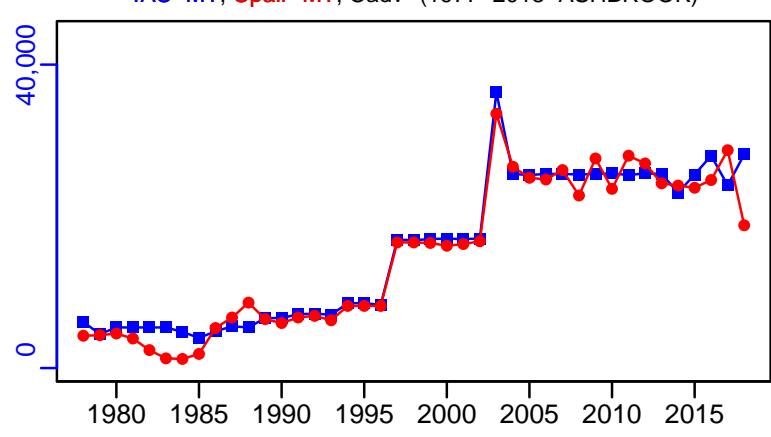
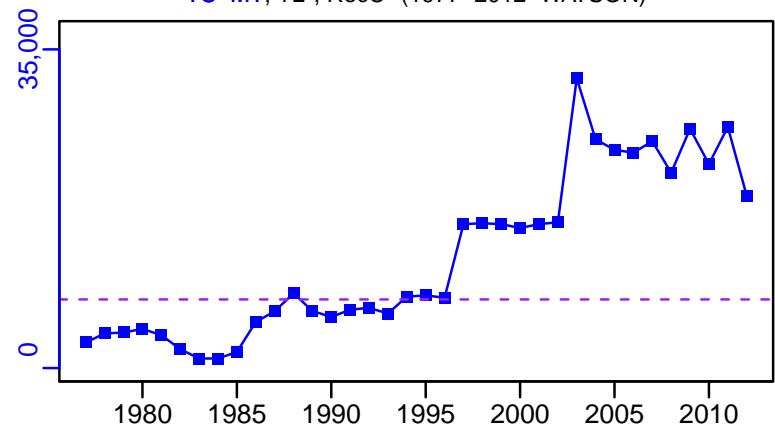


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

TC-MT, TL*, RecC* (1977–2012-WATSON)

TAC-MT, Cpair-MT, Cadv* (1977–2018-ASHBROOK)



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

Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]

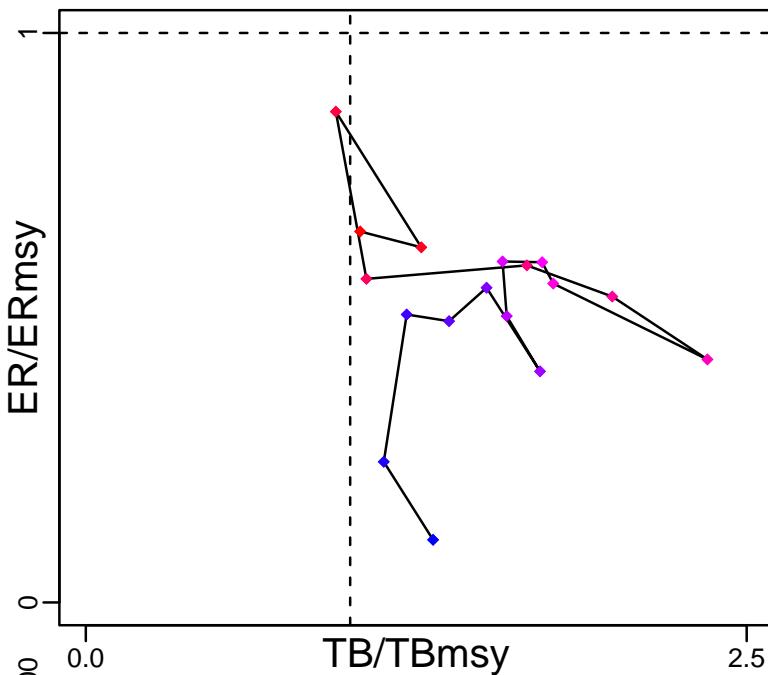
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-NFLD-PANDALSFA6-1977-2018-ASHBROOK
Area	Shrimp Fishing Area 6
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2018, 2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2012	79,600
Flim	-	-	-
ERlim	-	-	-

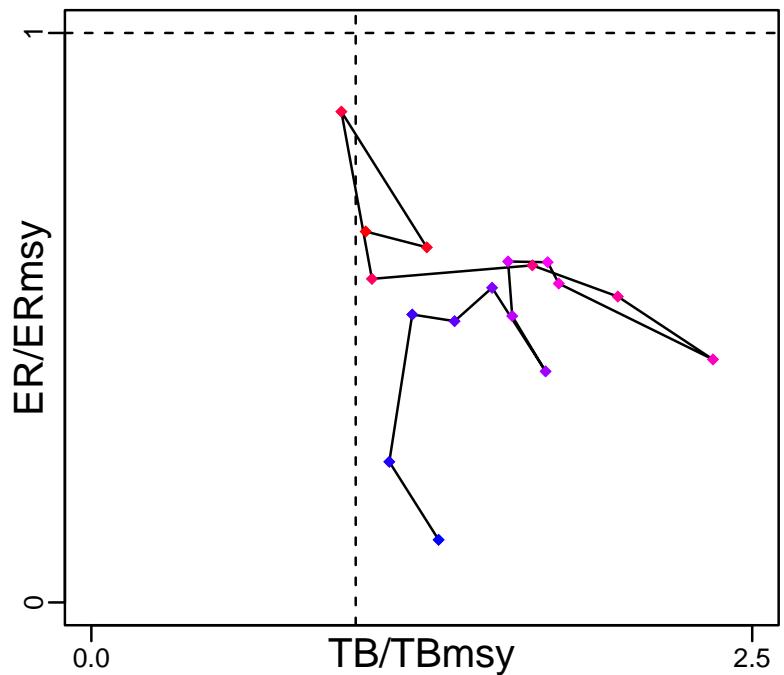
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	395,000	Both	-
SSB	SSB-MT	2012	187,000	-	-
TN	TN-E00	2012	9.29×10^{10}	-	-
R	R-E00	2012	3.14×10^{10}	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.129	-	-
TC	TC-MT	2012	51,000		
TL	TL-MT	2018	7300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]

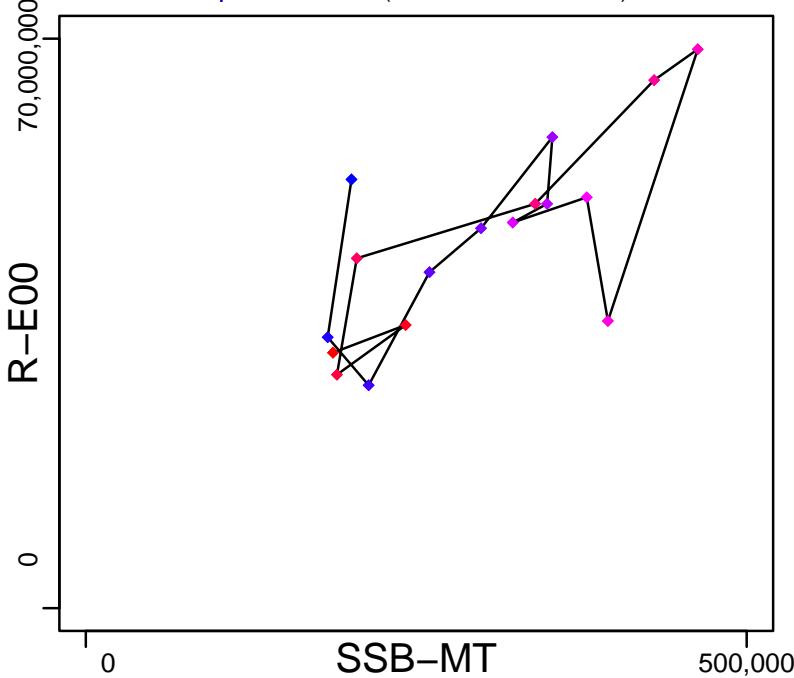
Kobe MSYpref (1977–2012–WATSON)



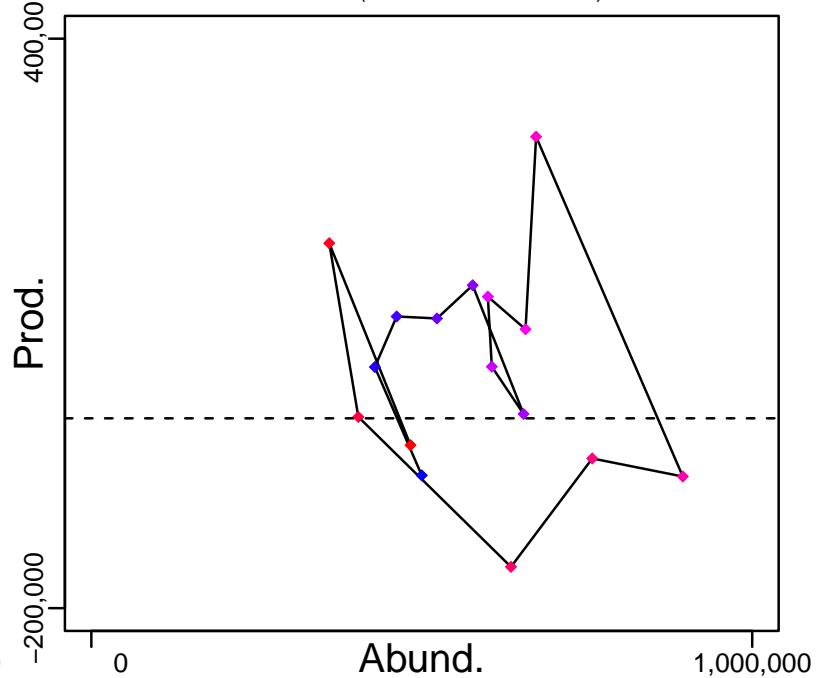
Kobe MGTpref (1977–2012–WATSON)



Spawner Recruit (1977–2012–WATSON)



Production (1977–2012–WATSON)

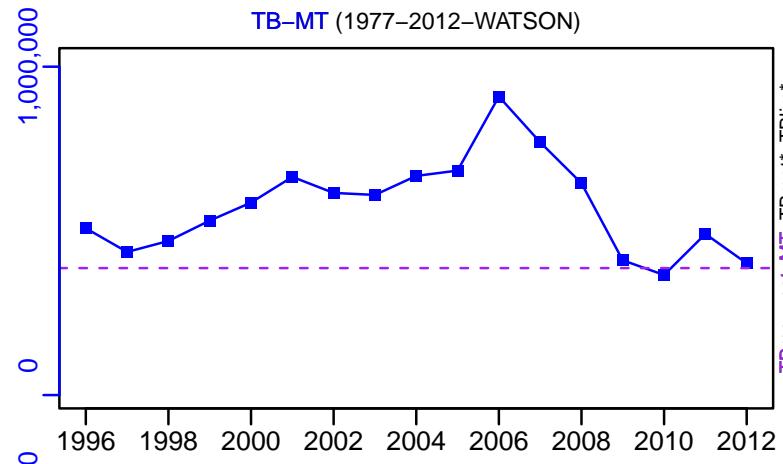


◆ Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]

TB-MT (1977–2012-WATSON)

SSB-MT (1977–2012-WATSON)

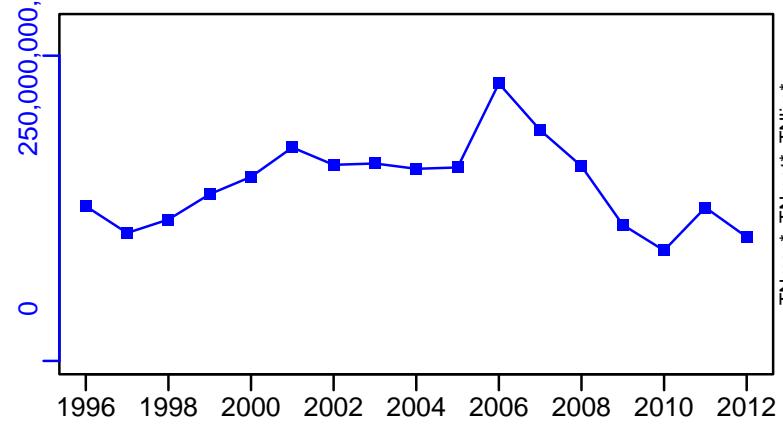


TB_msy-est-MT, TB_{mgt}, TB_{lim}*

SSB_msy*, SSB_{mgt}, SSB_{lim}-MT

TN-E00 (1977–2012-WATSON)

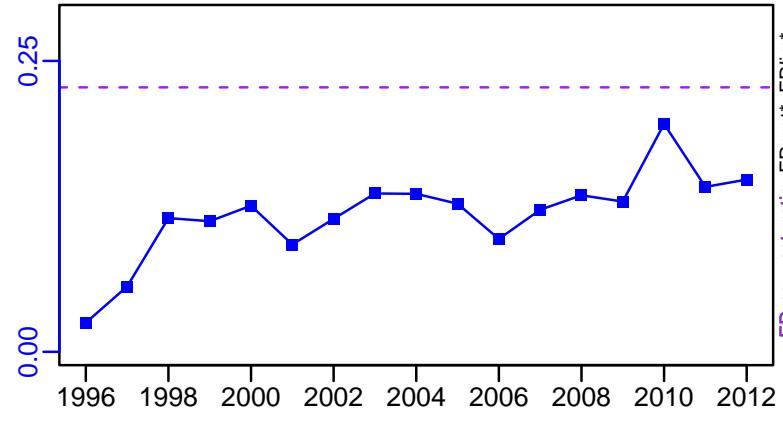
F*



TN_msy*, TN_{mgt}, TN_{lim}*

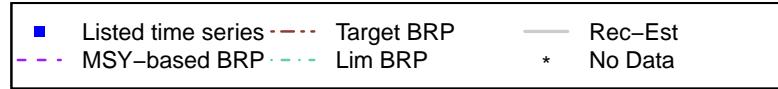
ER-calc-ratio (1977–2012-WATSON)

R-E00 (1977–2012-WATSON)



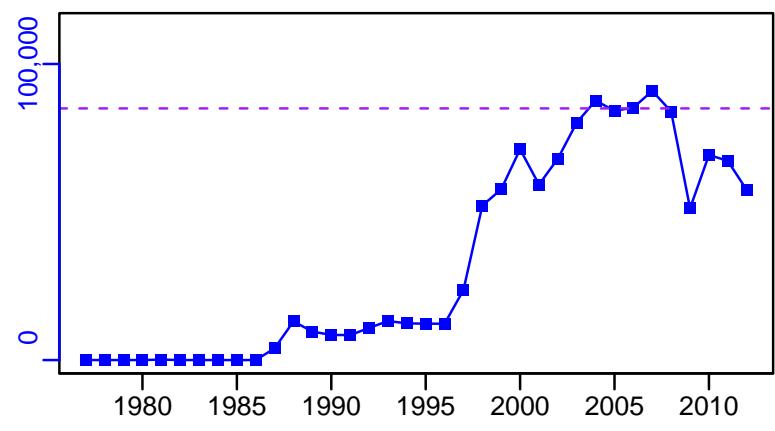
ER_msy-est-ratio, ER_{mgt}, ER_{lim}*

REC-EST*

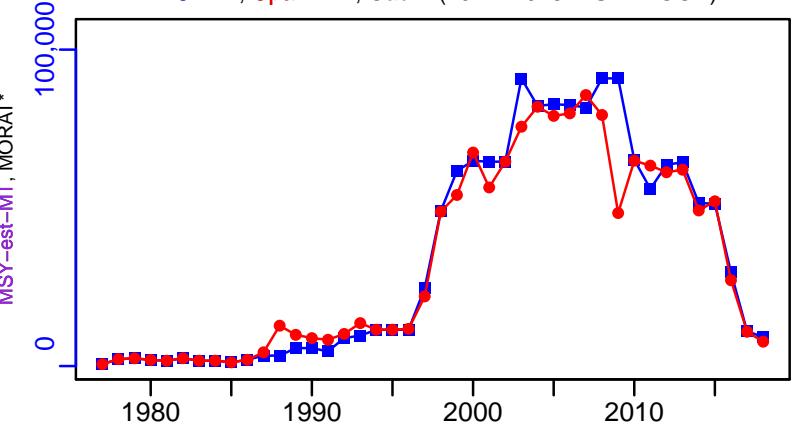


Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]

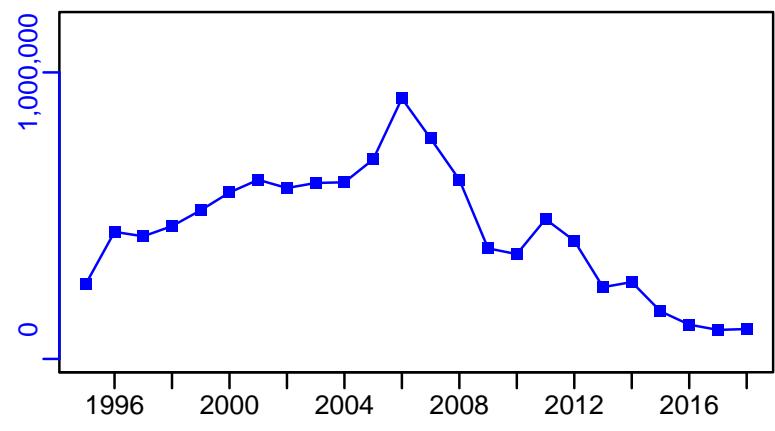
TC-MT, TL*, RecC* (1977–2012–WATSON)



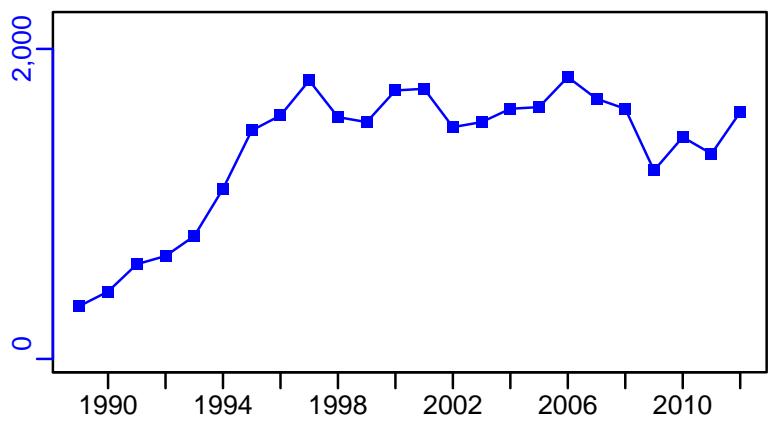
TAC-MT, Cpair-MT, Cadv* (1977–2018–ASHBROOK)



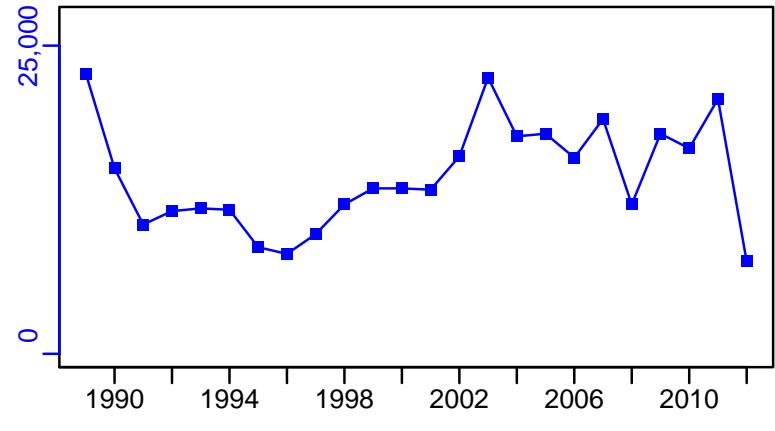
survB-MT (1977–2018–ASHBROOK)



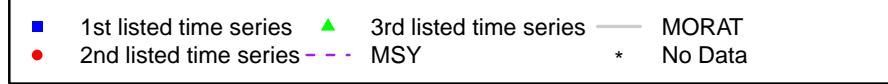
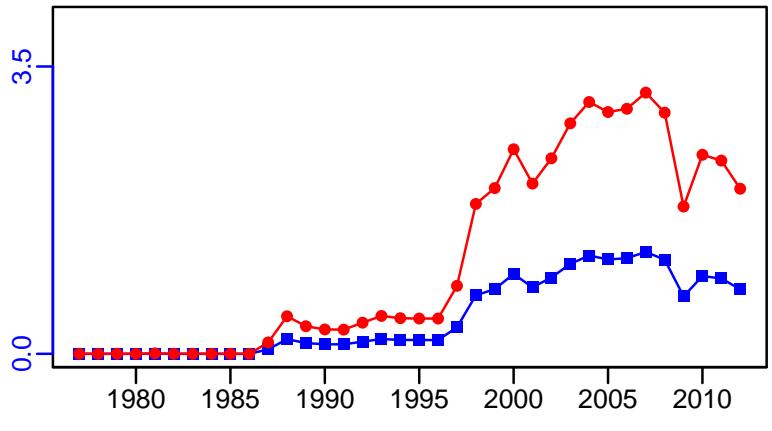
CPUE-index (1977–2012–WATSON)



EFFORT-hour (1977–2012–WATSON)



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1977–2012–WATSON)



Northern shrimp Shrimp Fishing Area 8 [PANDALSFA8]

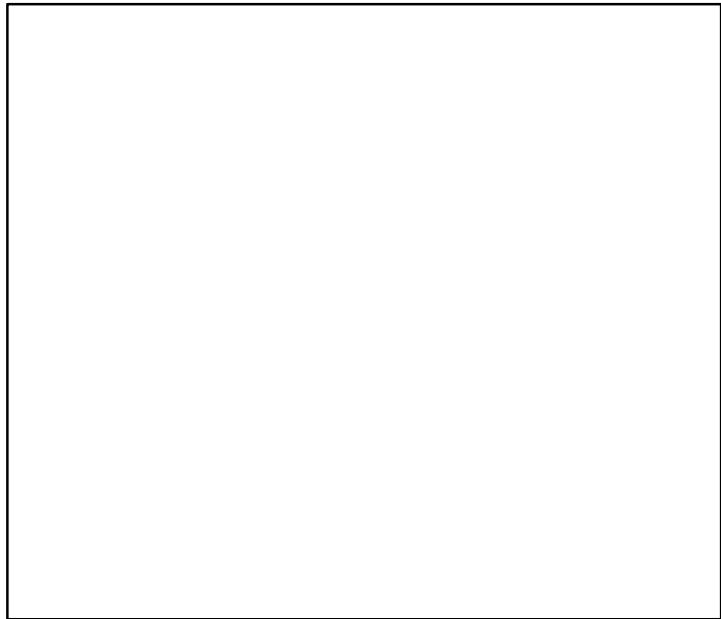
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-QUE-PANDALSFA8-1970-2017-ASHBROOK
Area	Shrimp Fishing Area 8
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2017

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

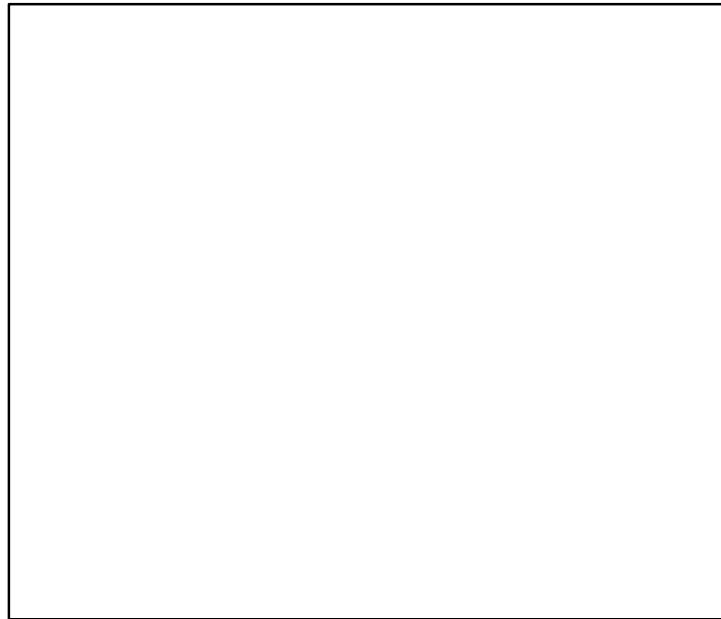
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	7118		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 8 [PANDALSFA8]

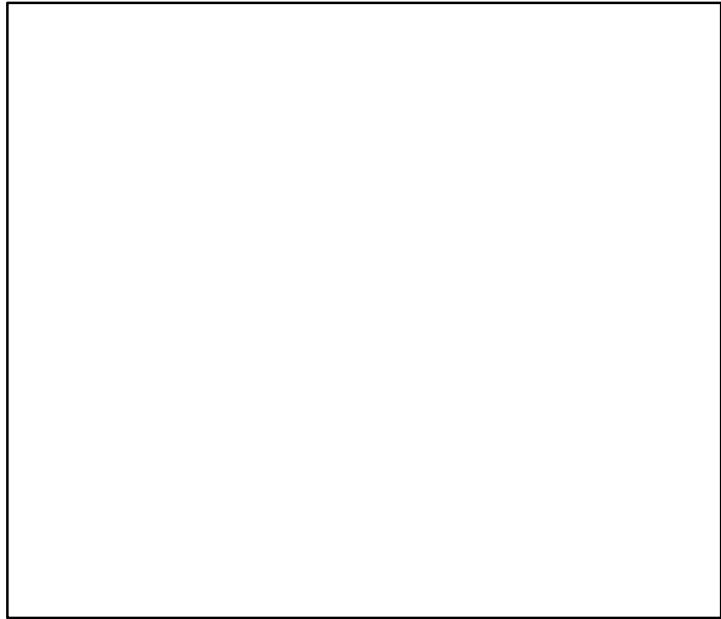
Kobe MSY*



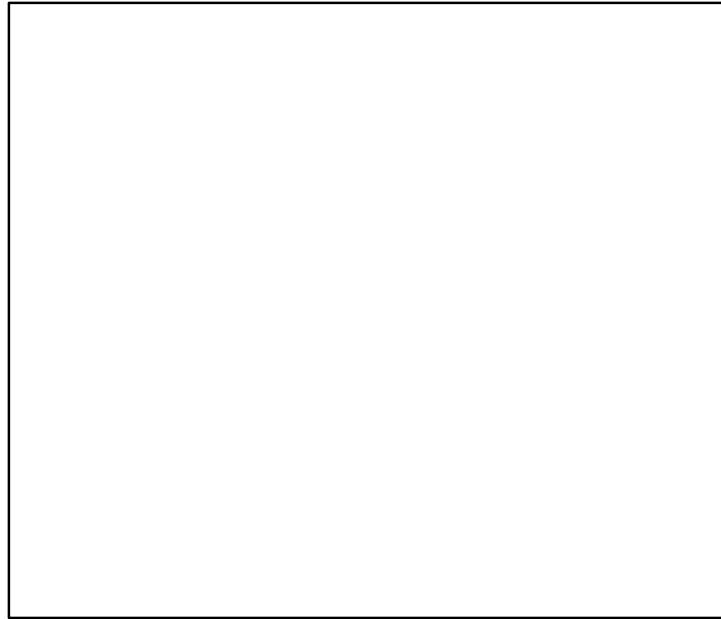
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Northern shrimp Shrimp Fishing Area 8 [PANDALSFA8]

TB*



SSB*



TN *



F*



ER*



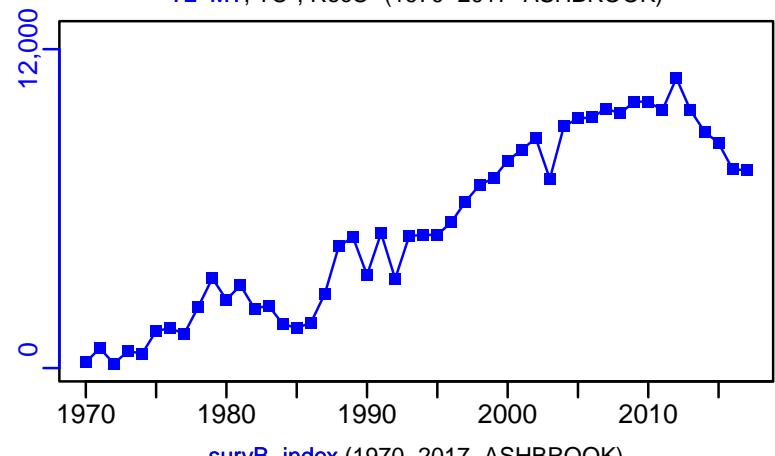
Recruits*



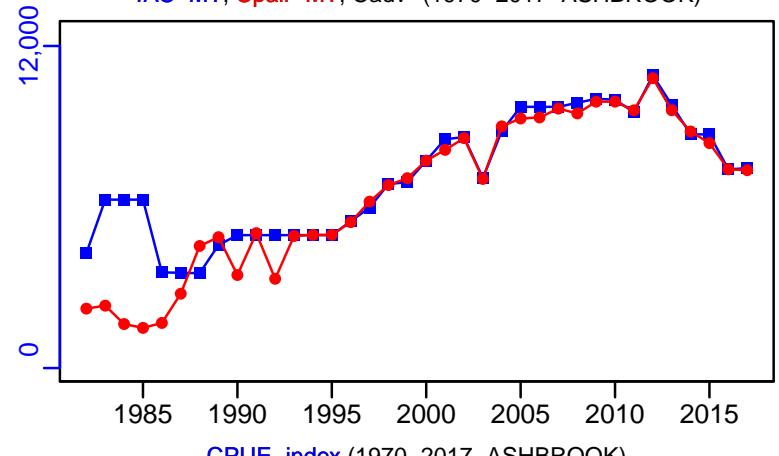
- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Shrimp Fishing Area 8 [PANDALSFA8]

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



TAC-MT, Cpair-MT, Cadv* (1970–2017–ASHBROOK)



EFFORT*

CdivMSY*

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

Northern shrimp Shrimp Fishing Area 9 [PANDALSFA9]

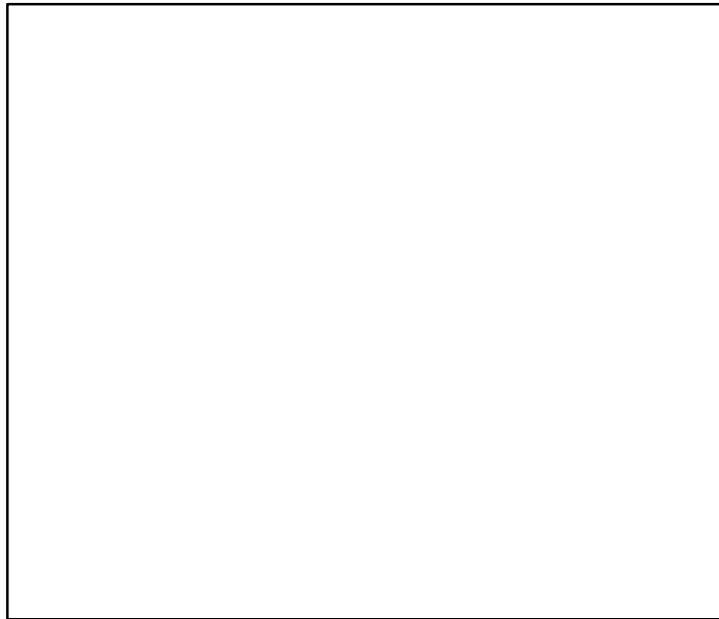
Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	DFO-QUE-PANDALSFA9-1974-2017-ASHBROOK
Area	Shrimp Fishing Area 9
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2017

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

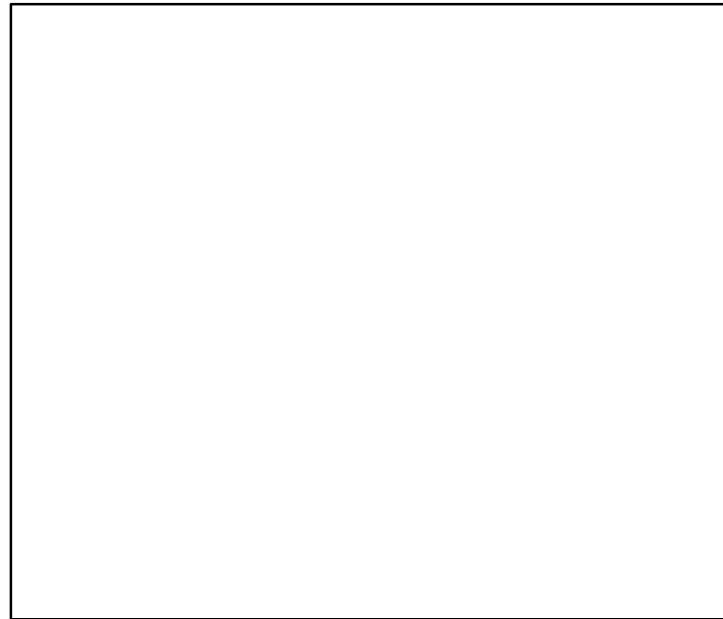
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	7347		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Shrimp Fishing Area 9 [PANDALSFA9]

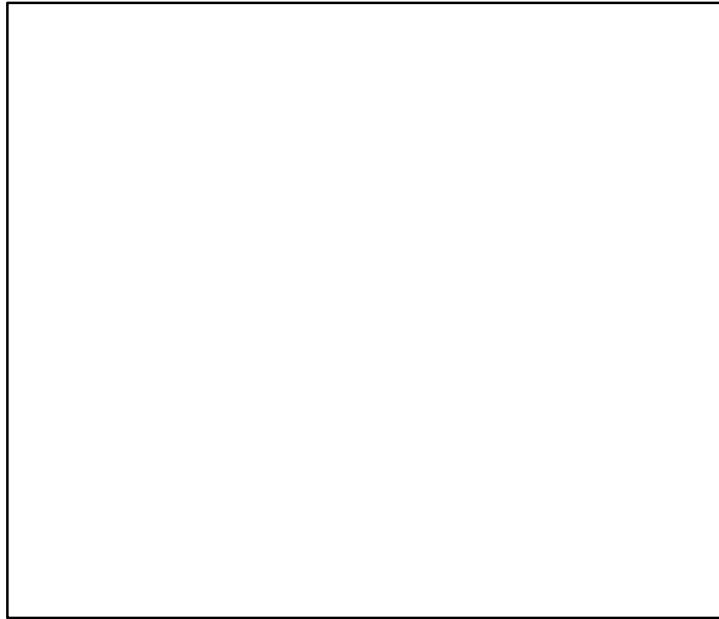
Kobe MSY*



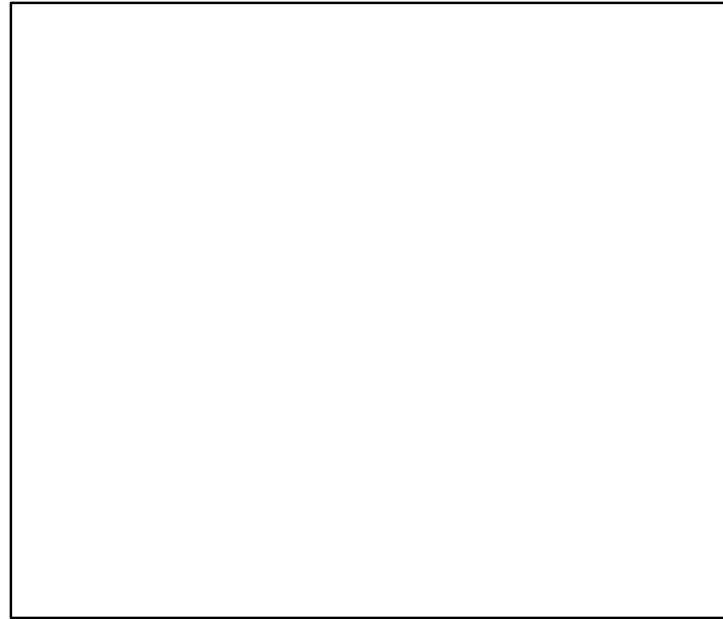
Kobe MGT*



Spawner Recruit*



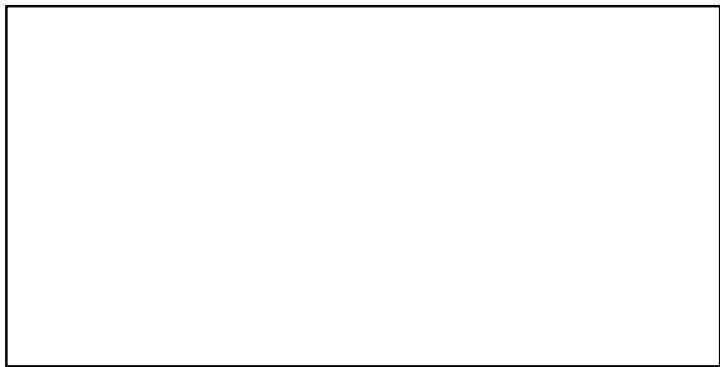
Production*



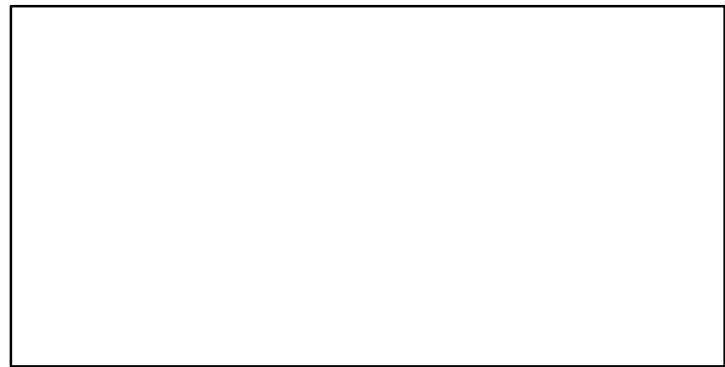
◆ Start Year ♦ End Year * No Data

Northern shrimp Shrimp Fishing Area 9 [PANDALSFA9]

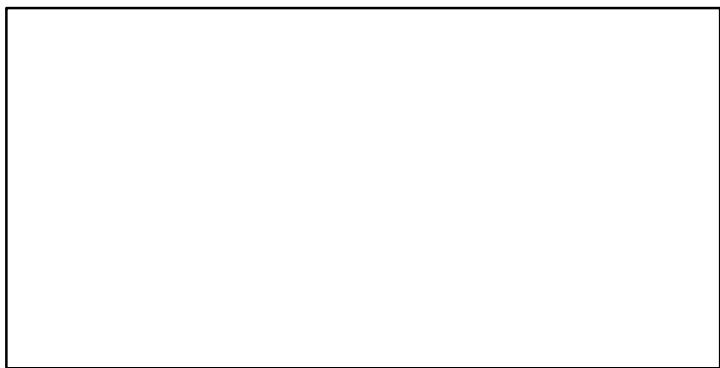
TB*



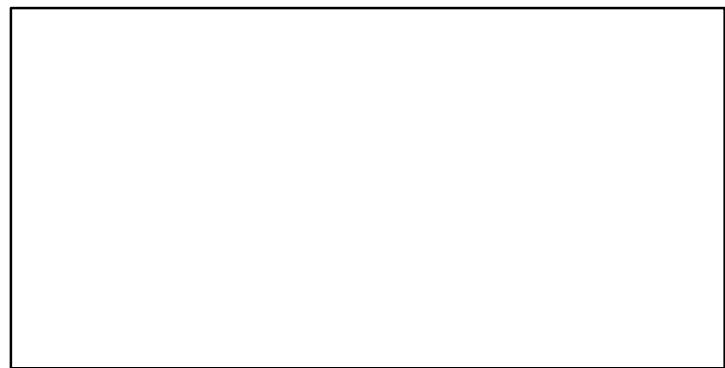
SSB*



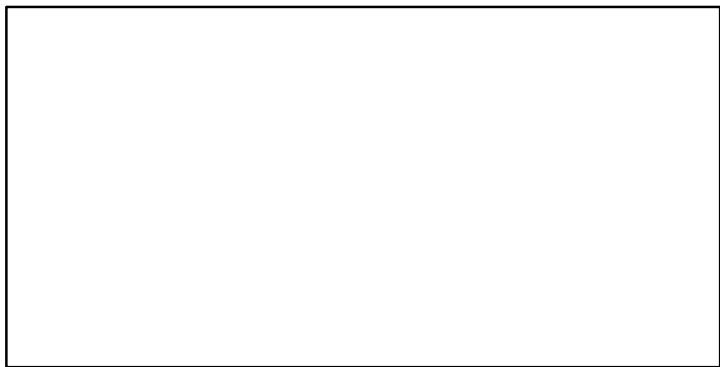
TN *



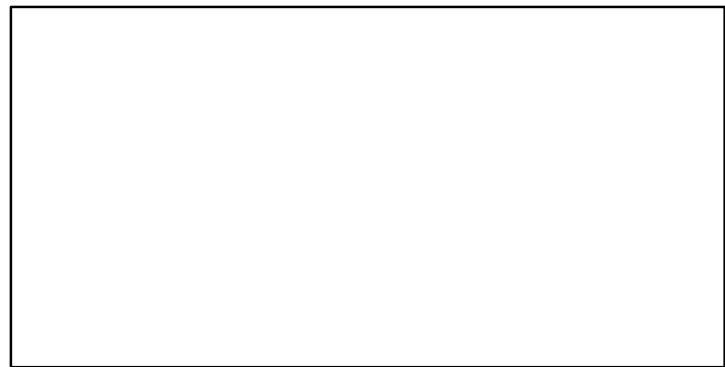
F*



ER*



Recruits*

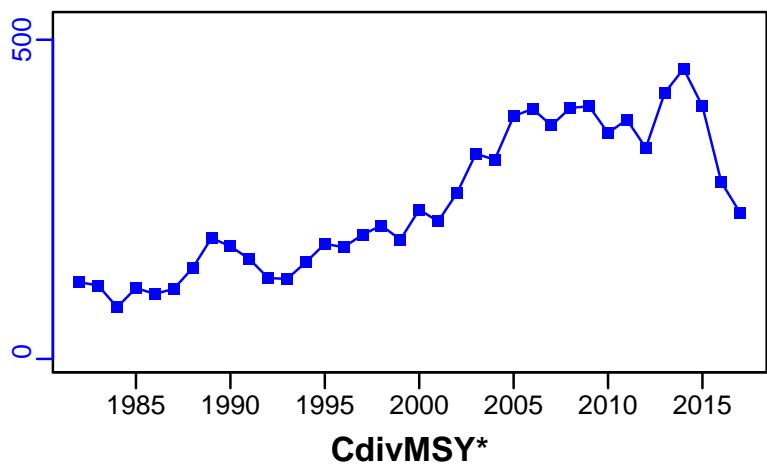
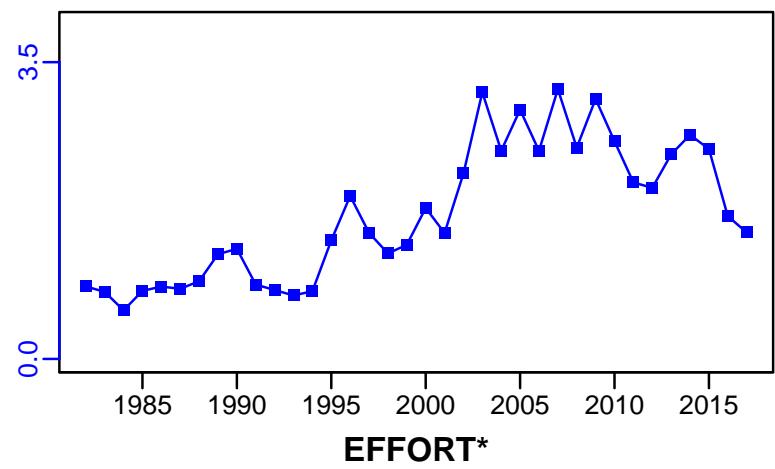
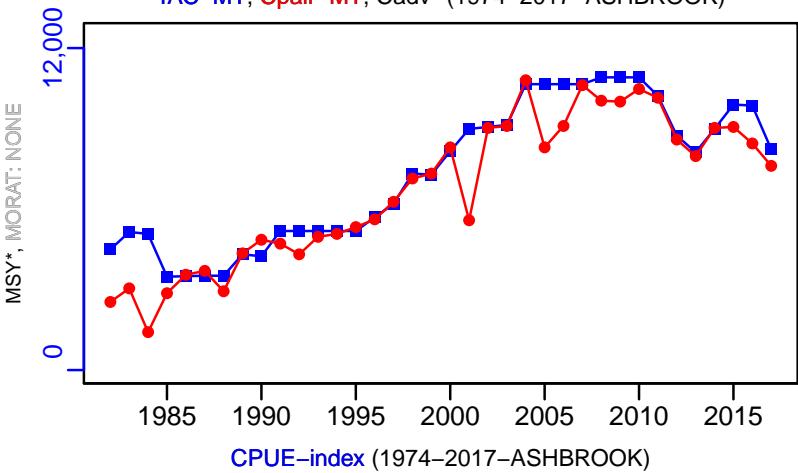
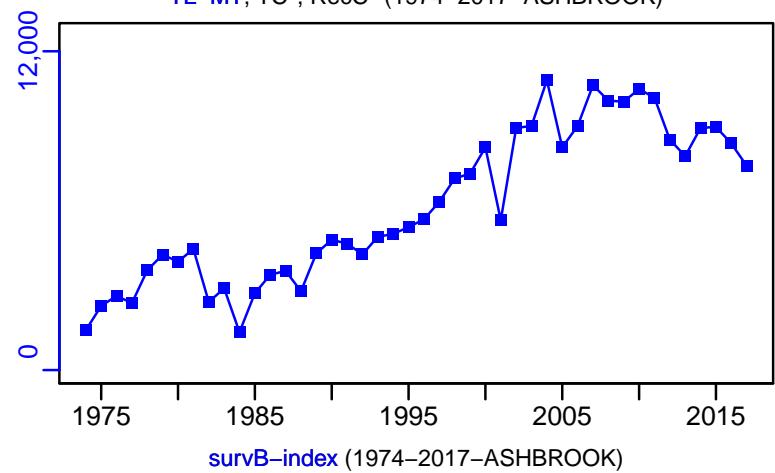


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Northern shrimp Shrimp Fishing Area 9 [PANDALSFA9]

TL-MT, TC*, RecC* (1974–2017-ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1974–2017-ASHBROOK)



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

Ocean shrimp Shrimp Management Area 14 [PANDALSMA14]

Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMA14-1987-2011-WATSON
Area	Shrimp Management Area 14
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	60		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

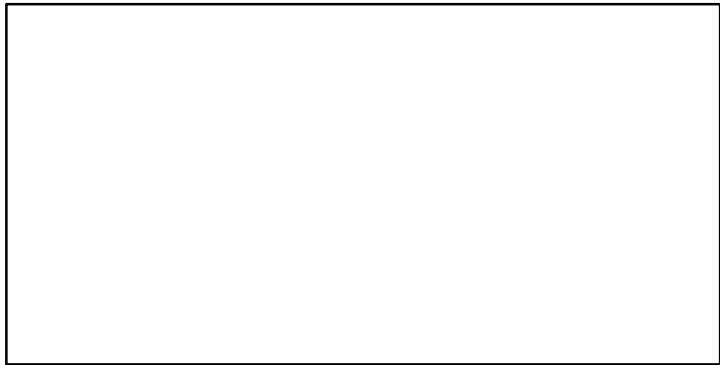
Spawner Recruit*

Production*

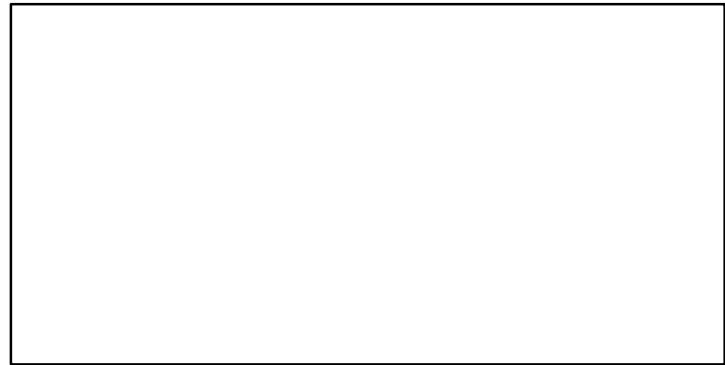
◆ Start Year ♦ End Year * No Data

Ocean shrimp Shrimp Management Area 14 [PANDALSMA14]

TB*



SSB*



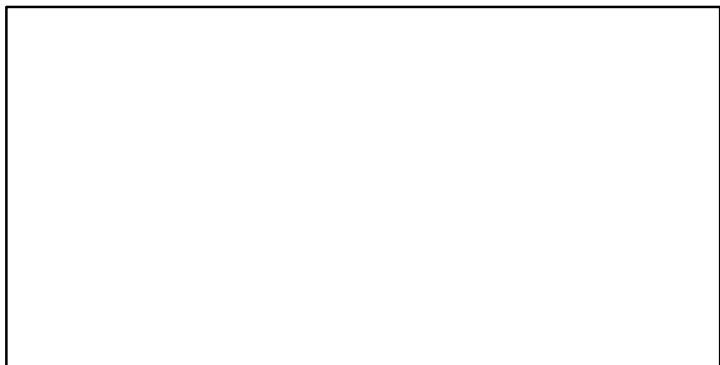
TN *



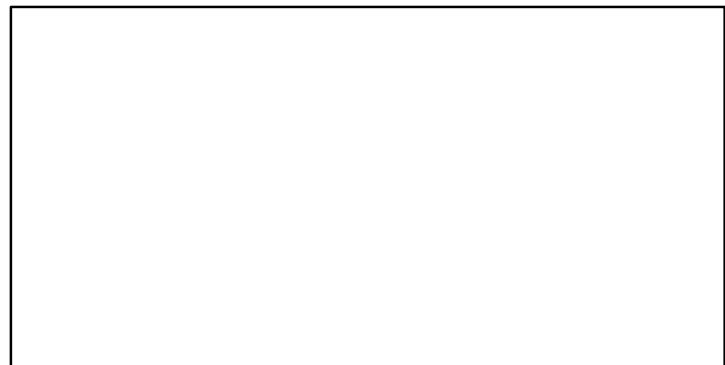
F*



ER*



Recruits*

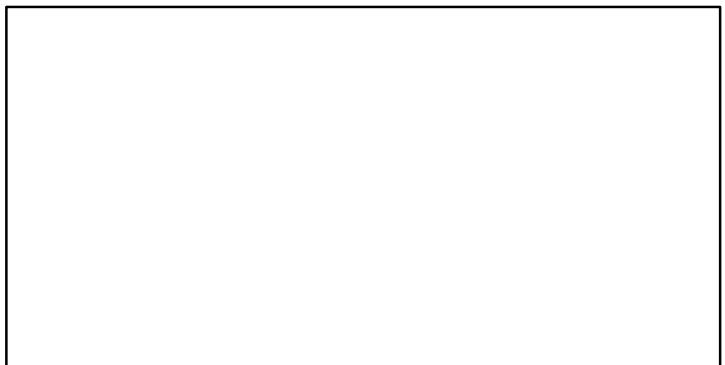
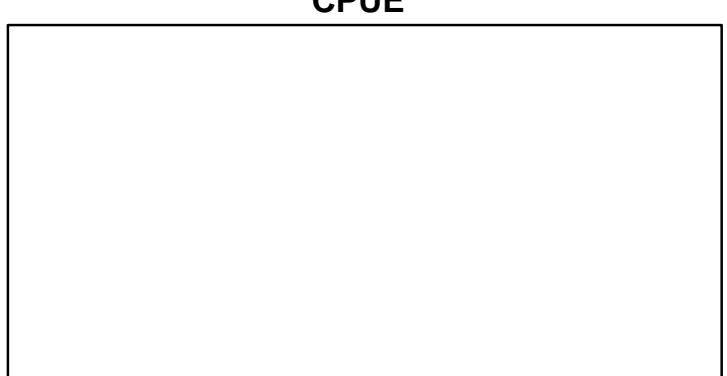
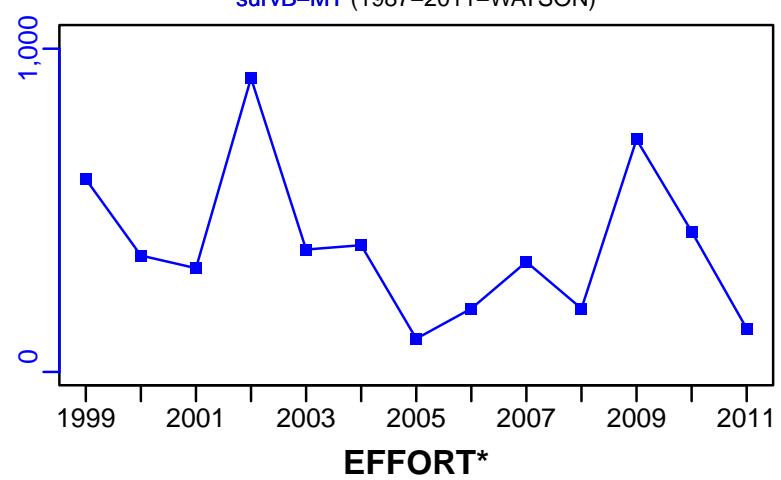
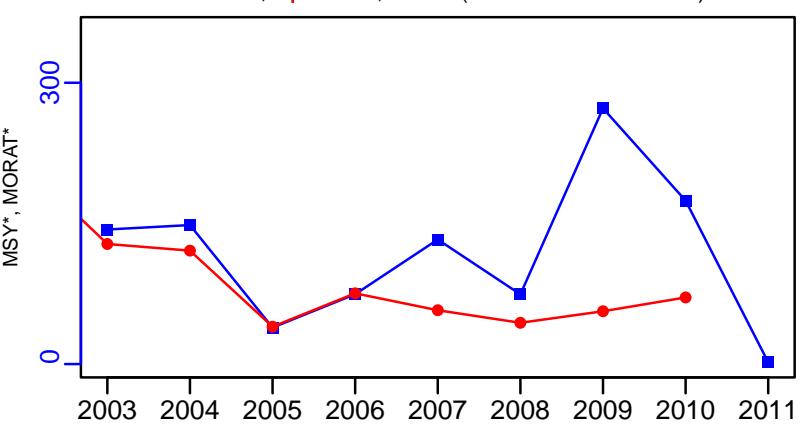
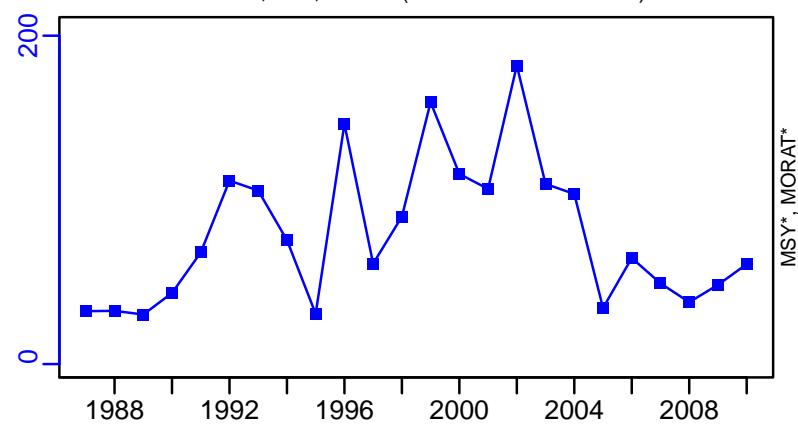


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

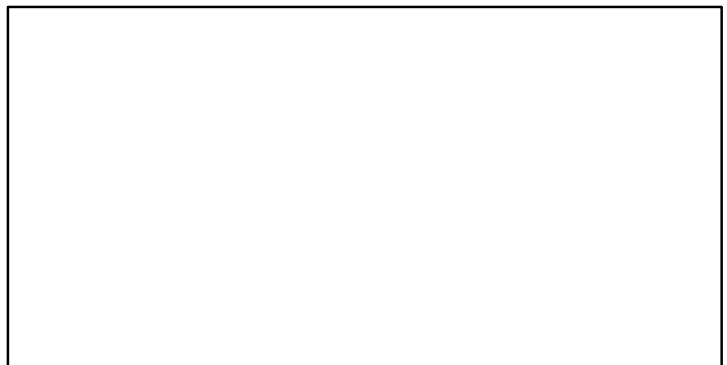
Ocean shrimp Shrimp Management Area 14 [PANDALSMA14]

TL-MT, TC*, RecC* (1987–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011-WATSON)



CdivMSY*



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

Ocean shrimp Shrimp Management Area 16 [PANDALSMA16]

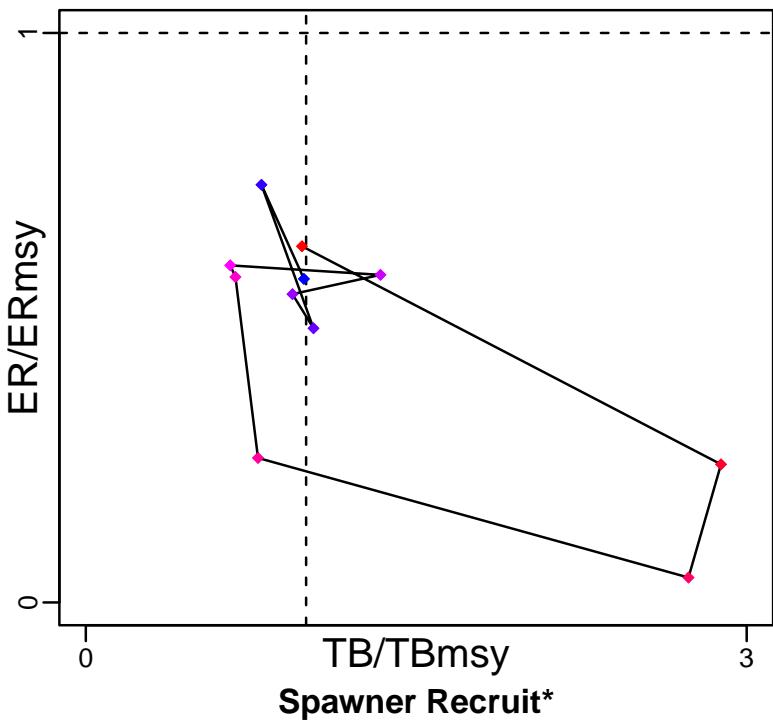
Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMA16-1987-2011-WATSON
Area	Shrimp Management Area 16
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

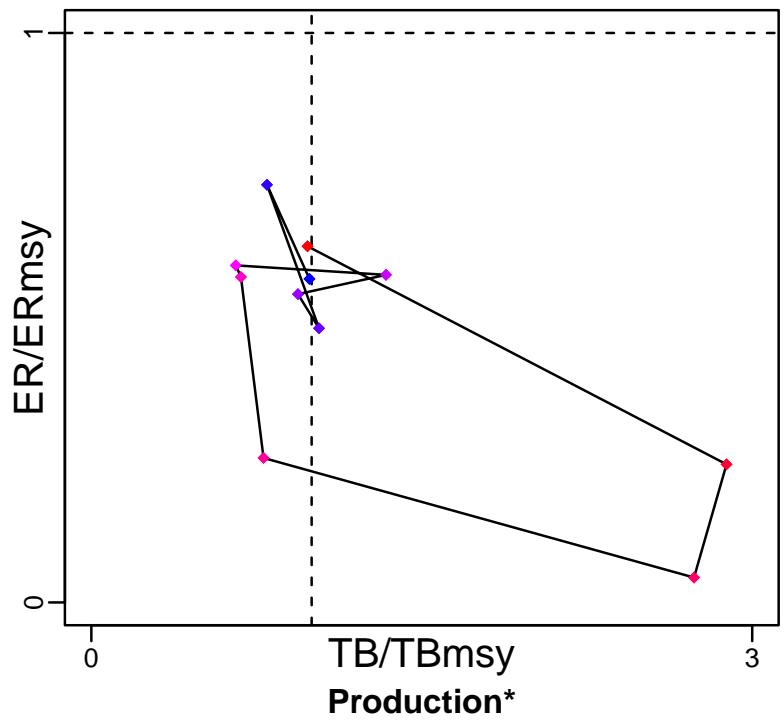
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	94	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0.318	-	-	
TC	-	-	-			
TL	TL-MT	2011	36			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Ocean shrimp Shrimp Management Area 16 [PANDALSMA16]

Kobe MSYpref (1987–2011–WATSON)



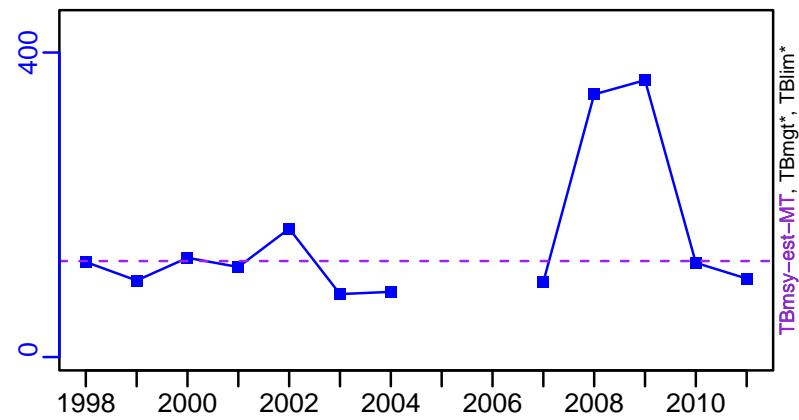
Kobe MGTPref (1987–2011–WATSON)



◆ Start Year ◆ End Year * No Data

Ocean shrimp Shrimp Management Area 16 [PANDALSMA16]

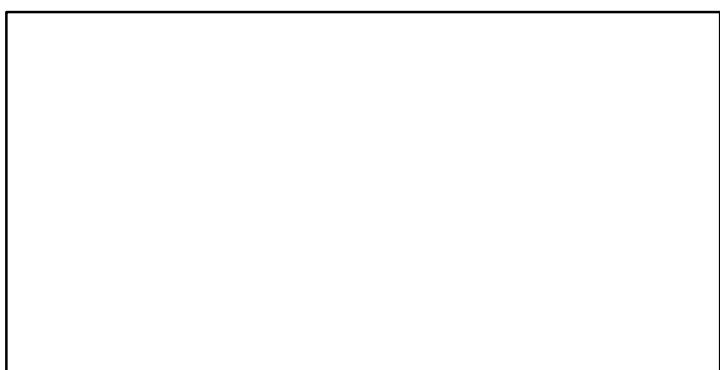
TB-MT (1987–2011–WATSON)



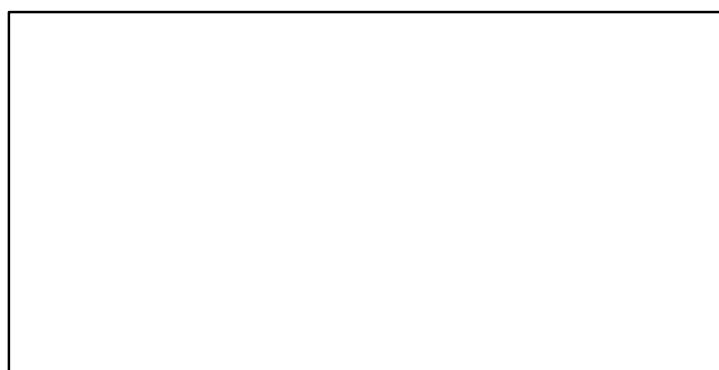
SSB*



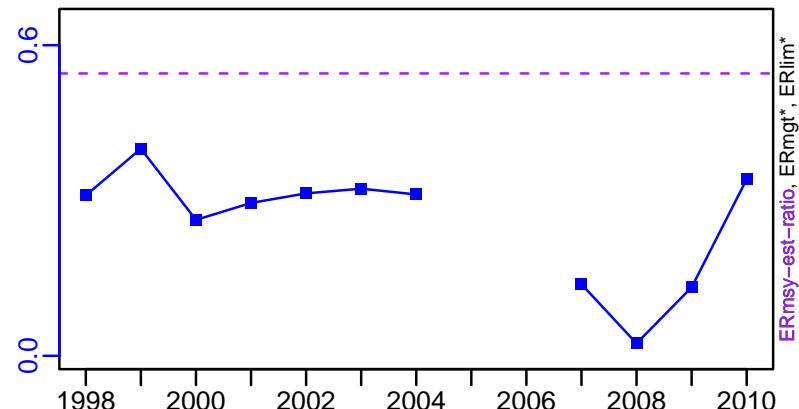
TN *



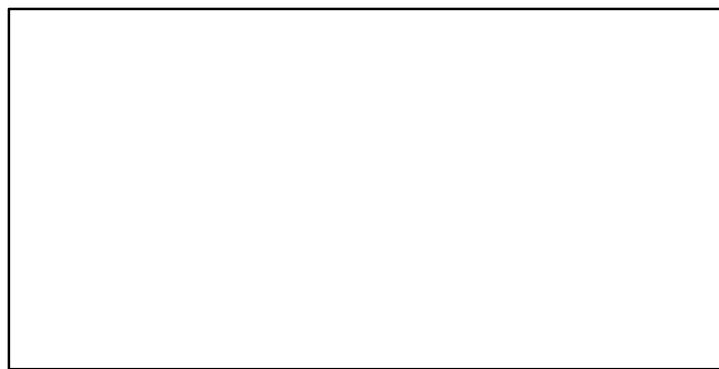
F*



ER-calc-ratio (1987–2011–WATSON)



Recruits*

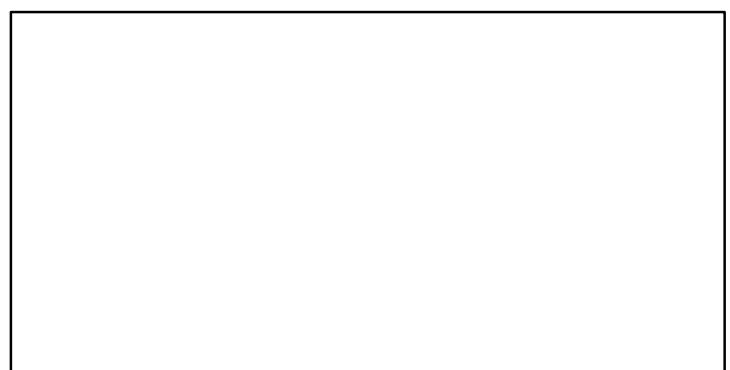
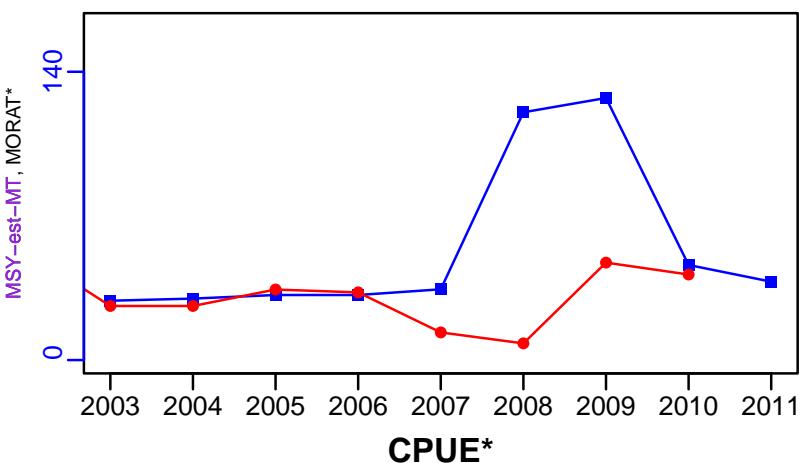
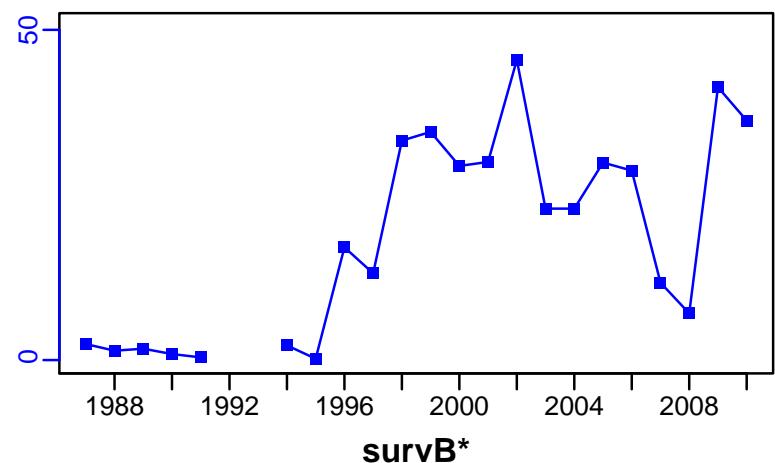


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

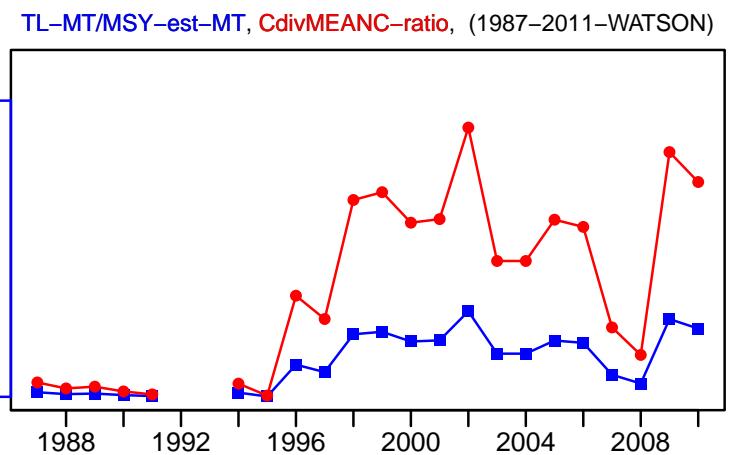
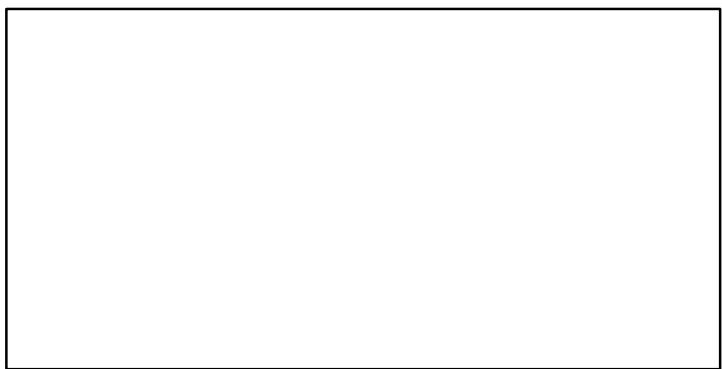
Ocean shrimp Shrimp Management Area 16 [PANDALSMA16]

TL-MT, TC*, RecC* (1987–2011–WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011–WATSON)



EFFORT*



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

Ocean shrimp Shrimp Management Areas 18 and 19 [PANDALSMA18-19]

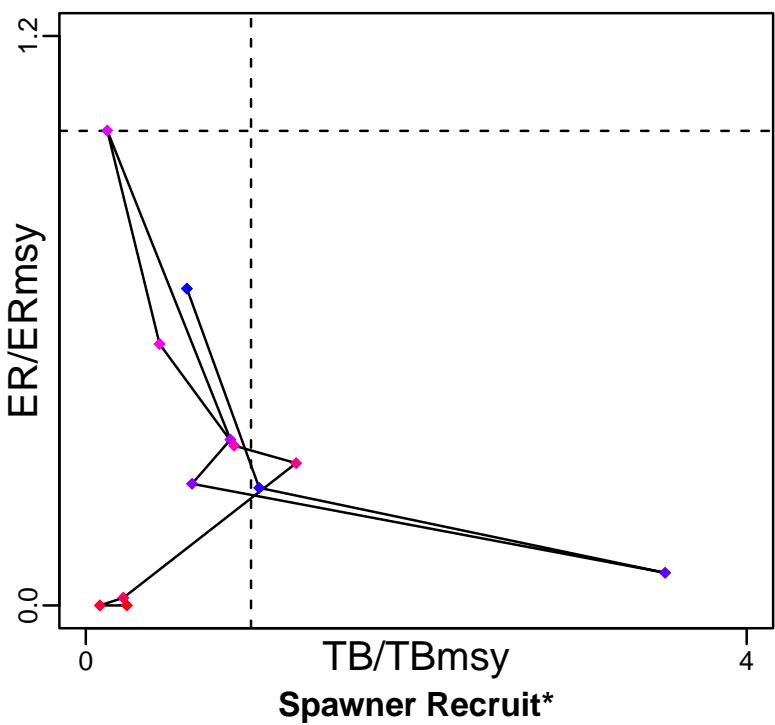
Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMA18-19-1987-2011-WATSON
Area	Shrimp Management Areas 18 and 19
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

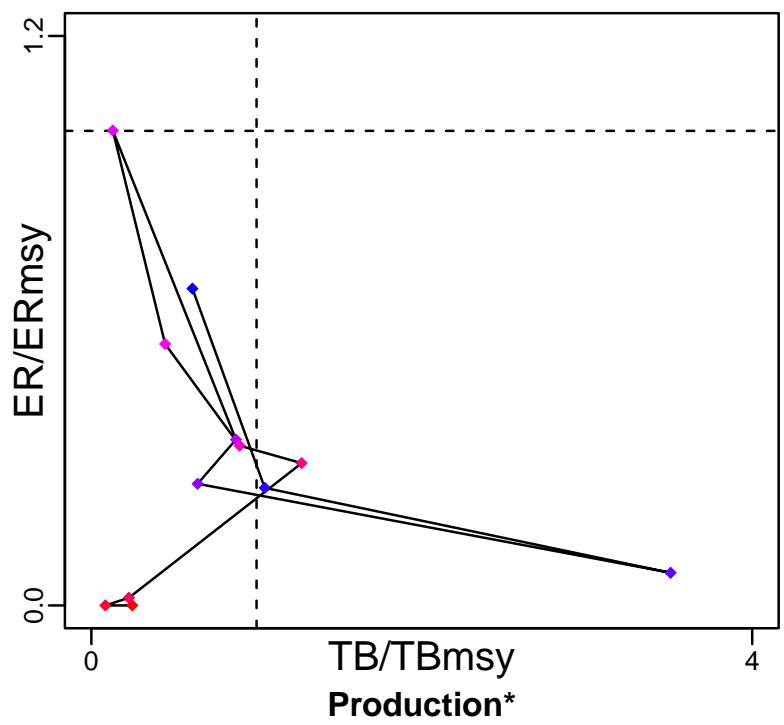
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	56	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0	-	-	
TC	-	-	-			
TL	TL-MT	2011	0			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Ocean shrimp Shrimp Management Areas 18 and 19 [PANDALSMA18–19]

Kobe MSYref (1987–2011–WATSON)



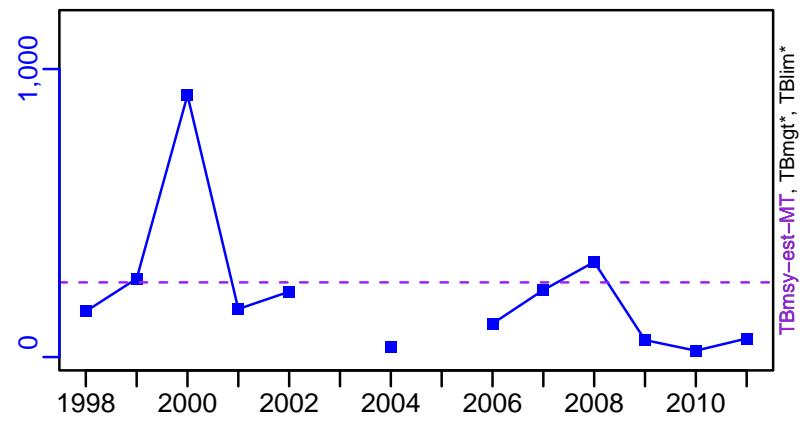
Kobe MGTref (1987–2011–WATSON)



◆ Start Year ◆ End Year * No Data

Ocean shrimp Shrimp Management Areas 18 and 19 [PANDALSMA18–19]

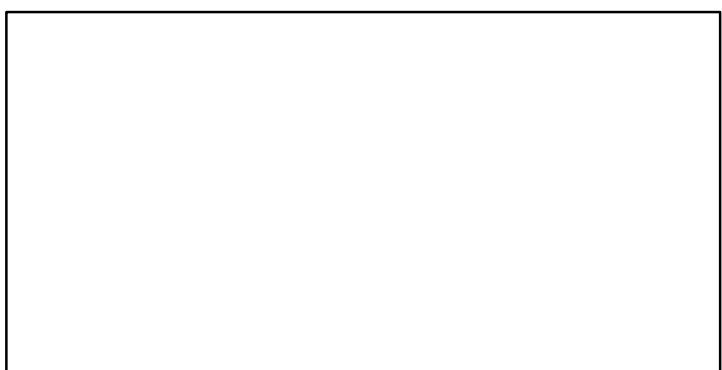
TB-MT (1987–2011–WATSON)



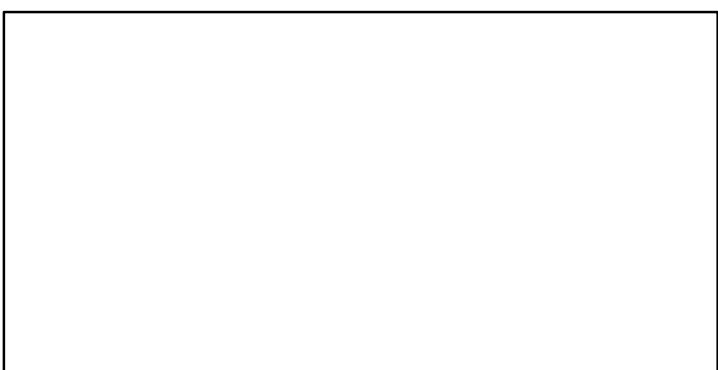
SSB*



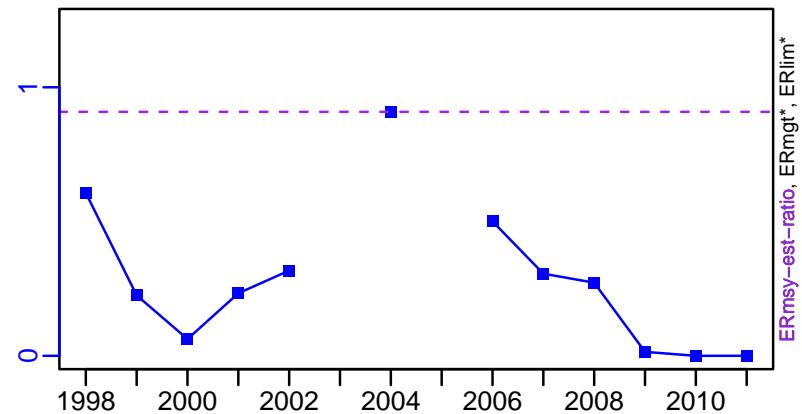
TN *



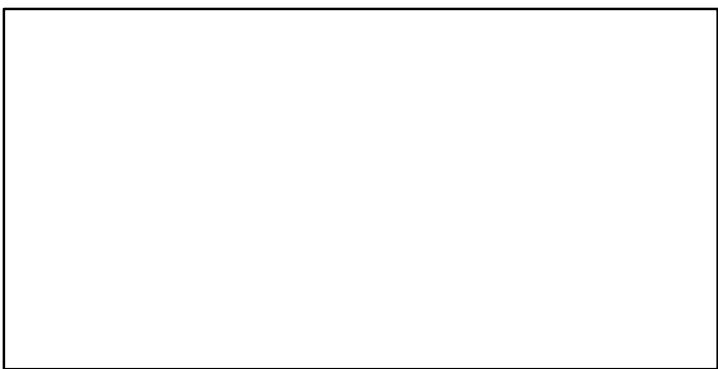
F*



ER-calc-ratio (1987–2011–WATSON)



Recruits*

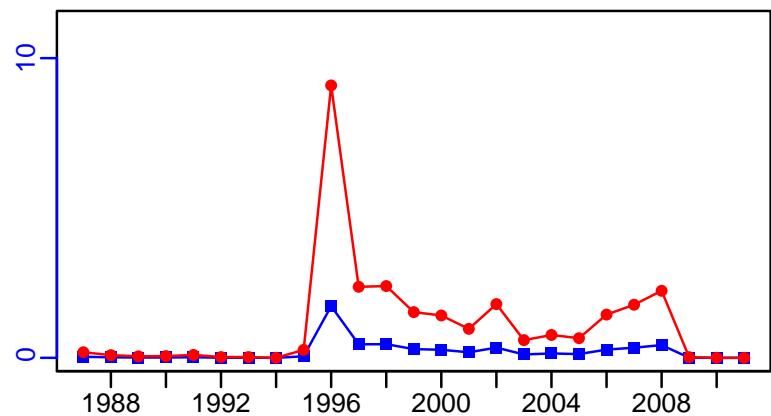
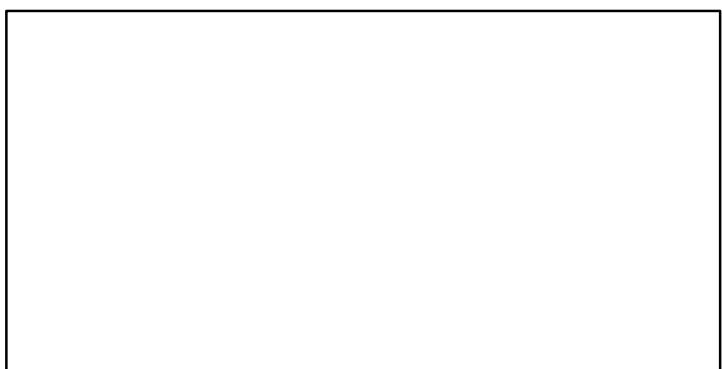
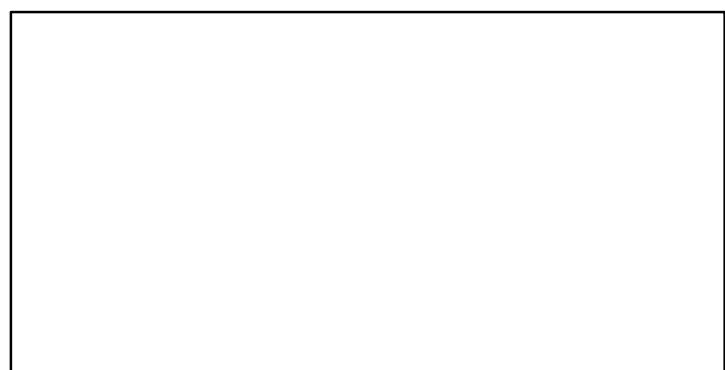
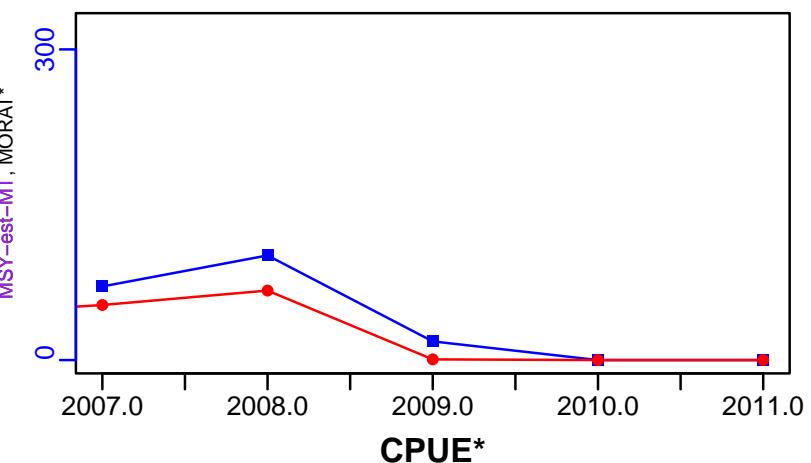
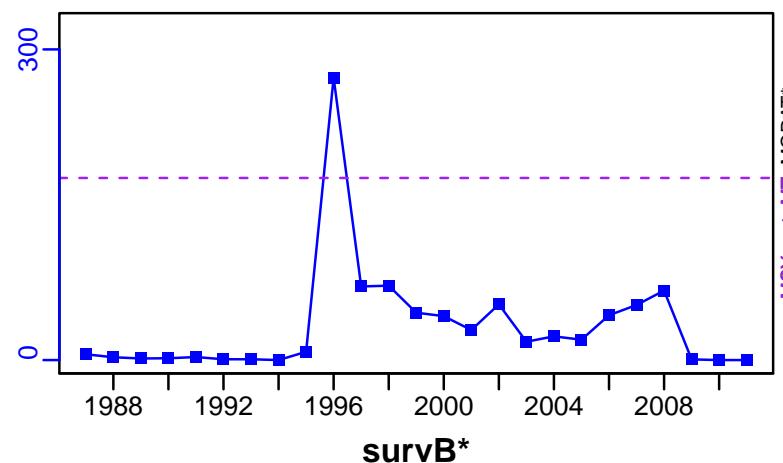


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Ocean shrimp Shrimp Management Areas 18 and 19 [PANDALSMA18–19]

TL-MT, TC*, RecC* (1987–2011–WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011–WATSON)



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

Ocean shrimp Shrimp Management Area FR [PANDALSMAFR]

Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMAFR-1987-2011-WATSON
Area	Shrimp Management Area FR
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	72		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Ocean shrimp Shrimp Management Area FR [PANDALSMAFR]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Ocean shrimp Shrimp Management Area FR [PANDALSMAFR]

TB*



SSB*



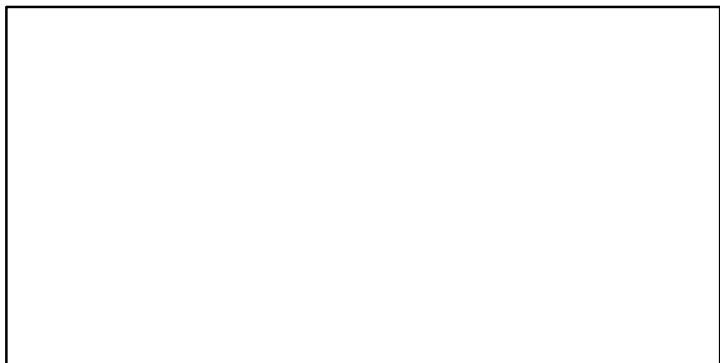
TN *



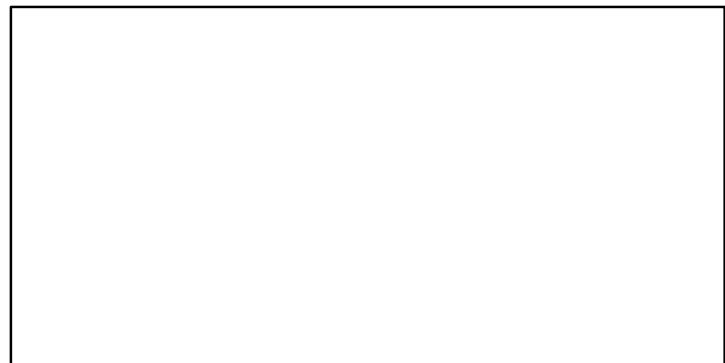
F*



ER*



Recruits*

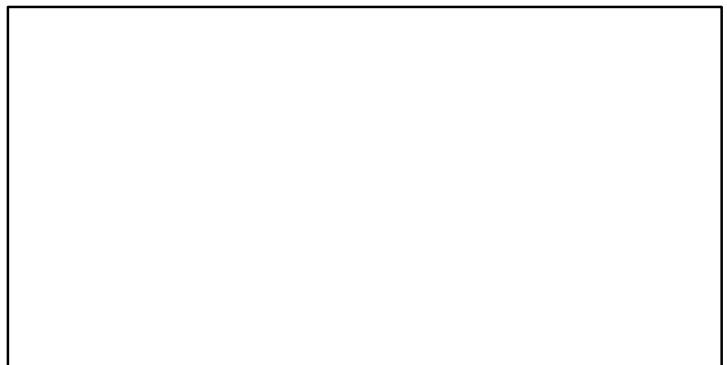
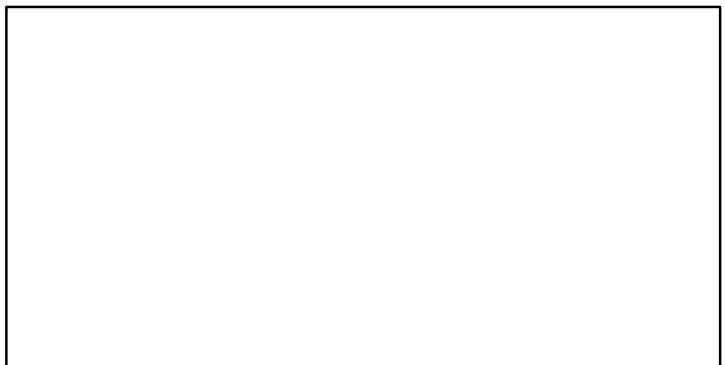
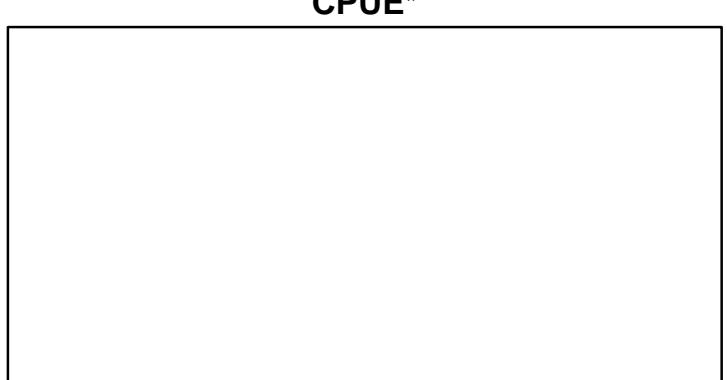
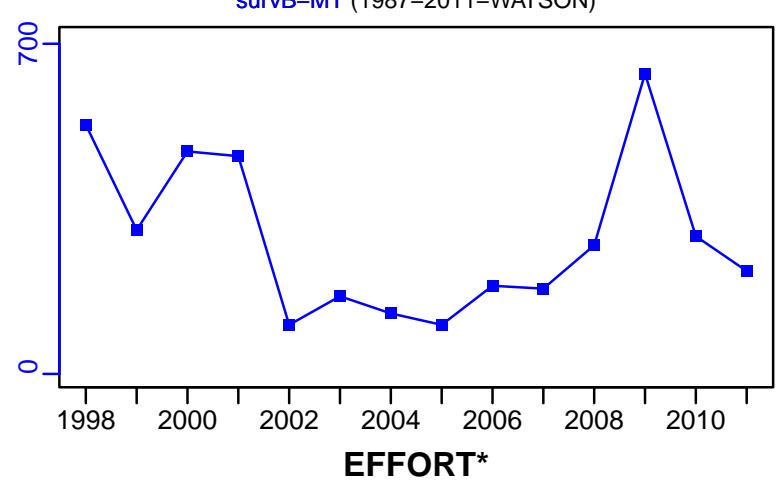
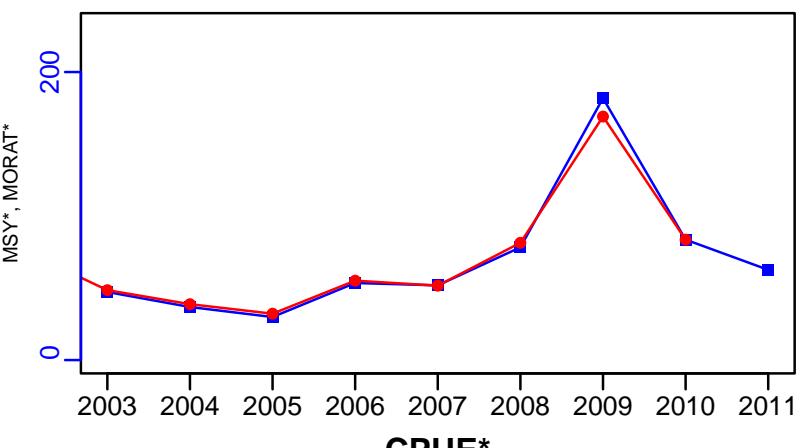
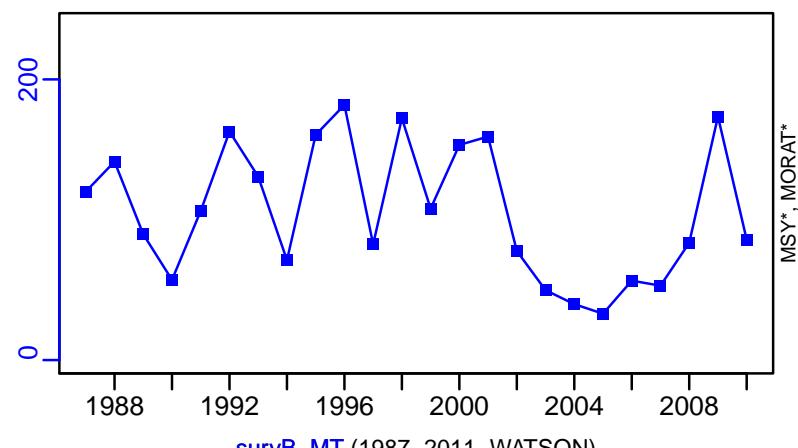


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Ocean shrimp Shrimp Management Area FR [PANDALSMAFR]

TL-MT, TC*, RecC* (1987–2011–WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011–WATSON)



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

Ocean shrimp Shrimp Management Area GTSE [PANDALSMAGTSE]

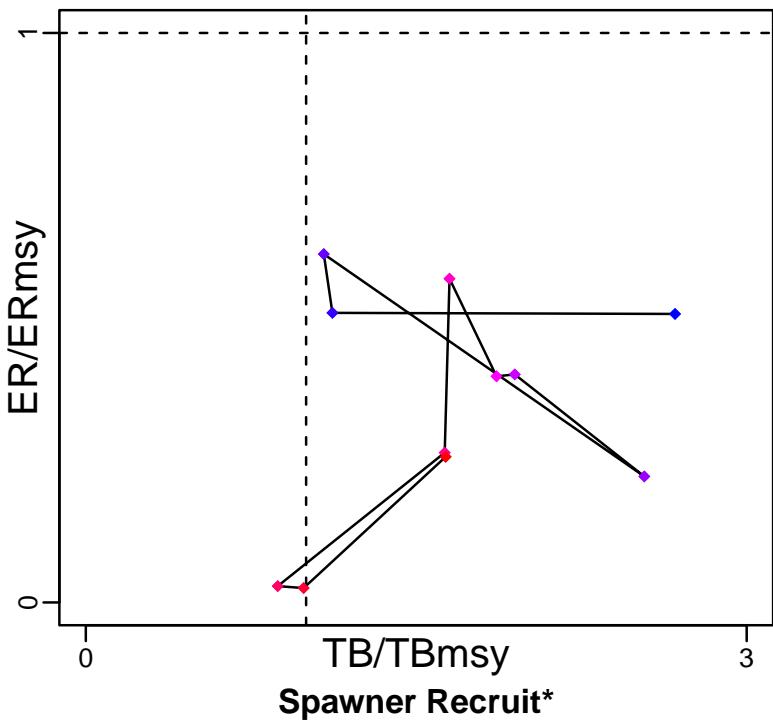
Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMAGTSE-1990-2012-WATSON
Area	Shrimp Management Area GTSE
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2012

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

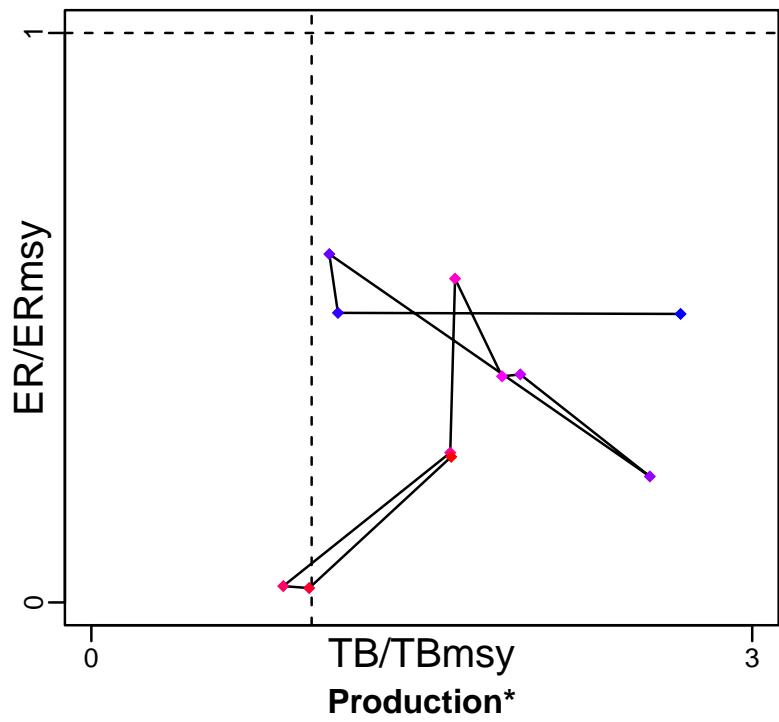
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2012	243	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2012	0.147	-	-	
TC	-	-	-			
TL	TL-MT	2012	55			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Ocean shrimp Shrimp Management Area GTSE [PANDALSMAGTSE]

Kobe MSYpref (1990–2012–WATSON)



Kobe MGTPref (1990–2012–WATSON)

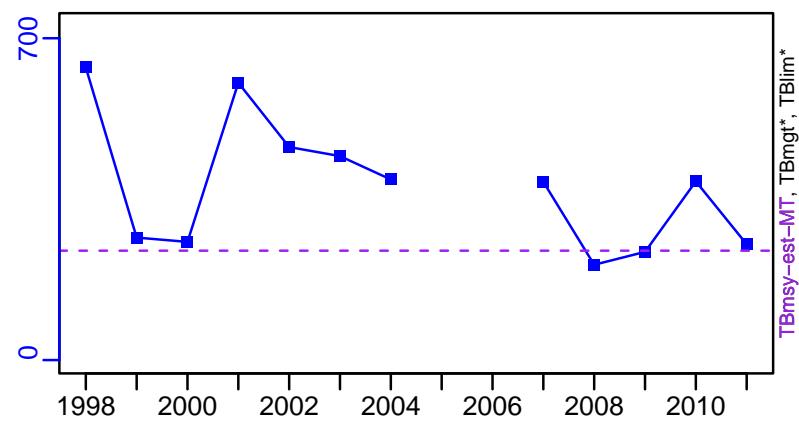


◆ Start Year ◆ End Year * No Data

Ocean shrimp Shrimp Management Area GTSE [PANDALSMAGTSE]

TB-MT (1990–2012-WATSON)

SSB*



TN *

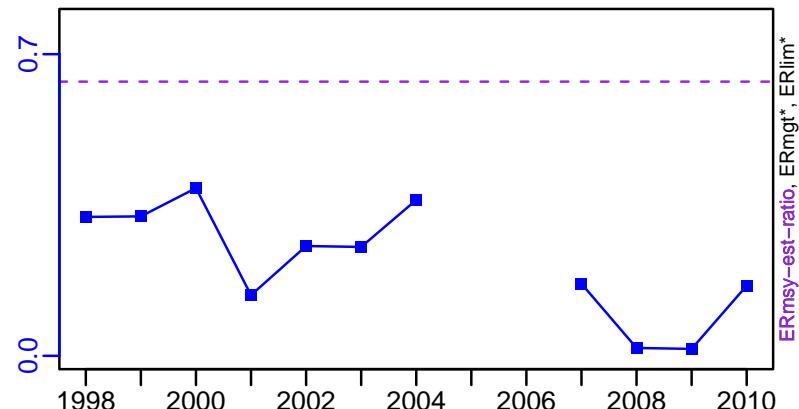


F*



ER-calc-ratio (1990–2012-WATSON)

Recruits*

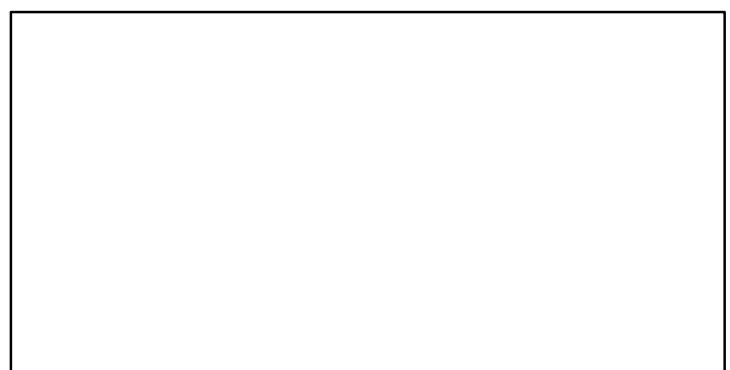
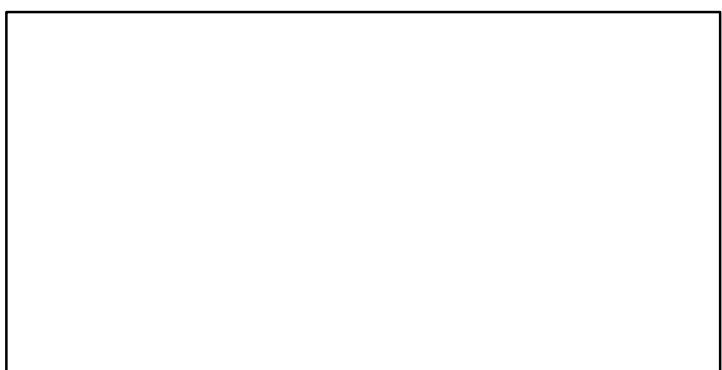
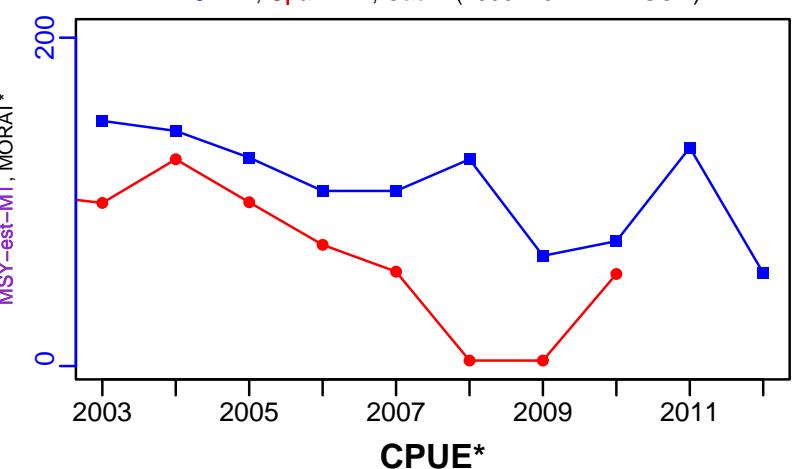
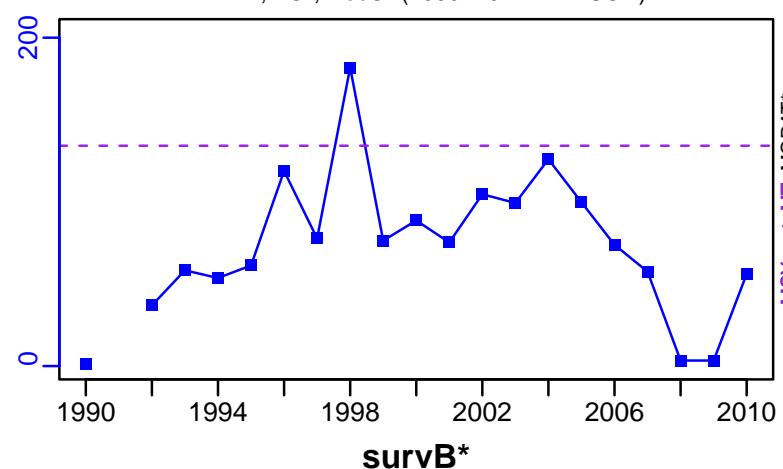


- Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - - Lim BRP * No Data

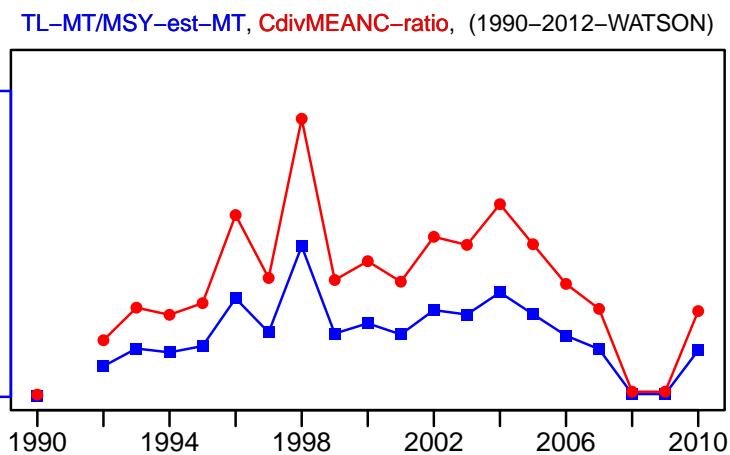
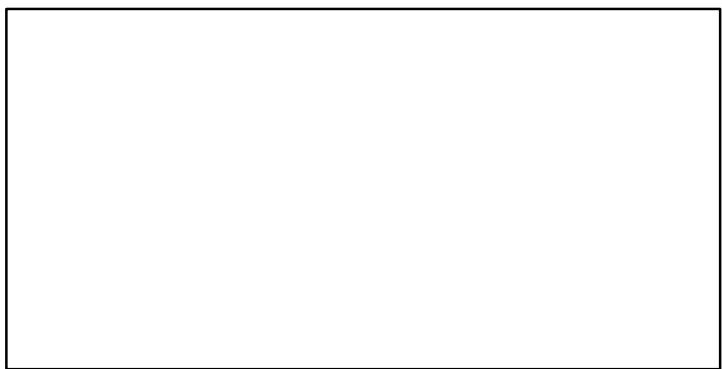
Ocean shrimp Shrimp Management Area GTSE [PANDALSMAGTSE]

TL-MT, TC*, RecC* (1990–2012–WATSON)

TAC-MT, Cpair-MT, Cadv* (1990–2012–WATSON)



EFFORT*



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

Ocean shrimp Shrimp Management Area PRD [PANDALSMAPRD]

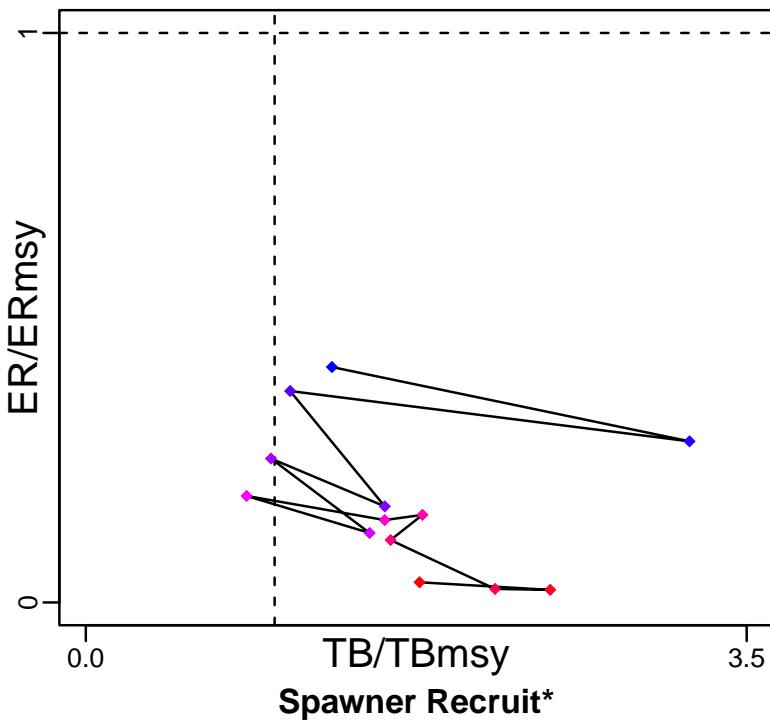
Metadata	
Scientific Name	Pandalus jordani
Current Assess ID	DFO-PANDALSMAPRD-1987-2011-WATSON
Area	Shrimp Management Area PRD
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

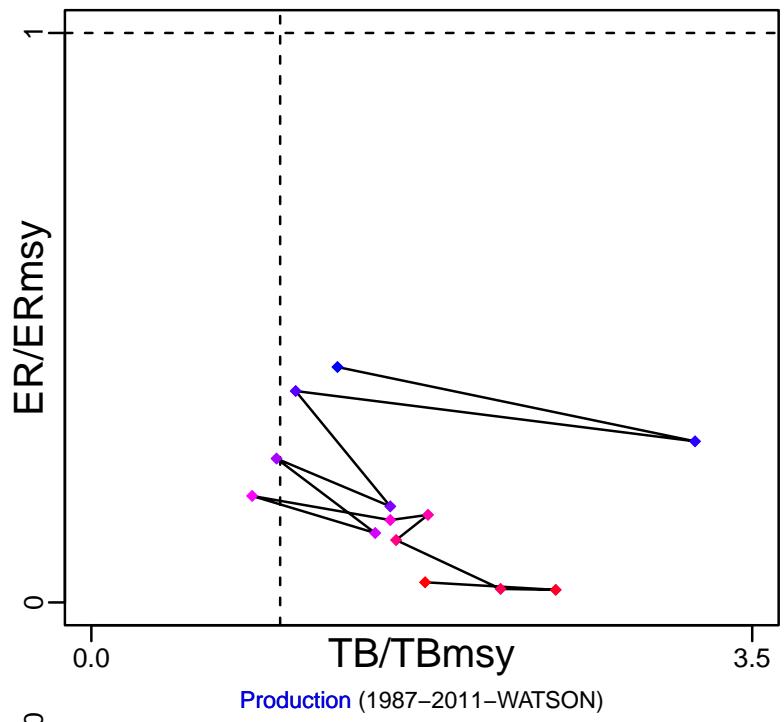
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	1210	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0.023	-	-	
TC	-	-	-			
TL	TL-MT	2011	26			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Ocean shrimp Shrimp Management Area PRD [PANDALSMAPRD]

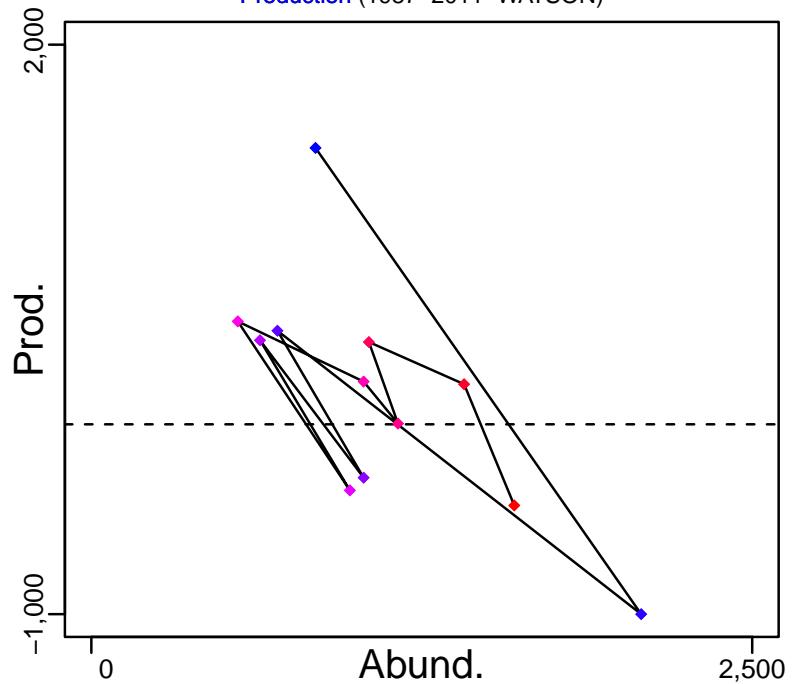
Kobe MSYpref (1987–2011–WATSON)



Kobe MGTpref (1987–2011–WATSON)



Production (1987–2011–WATSON)

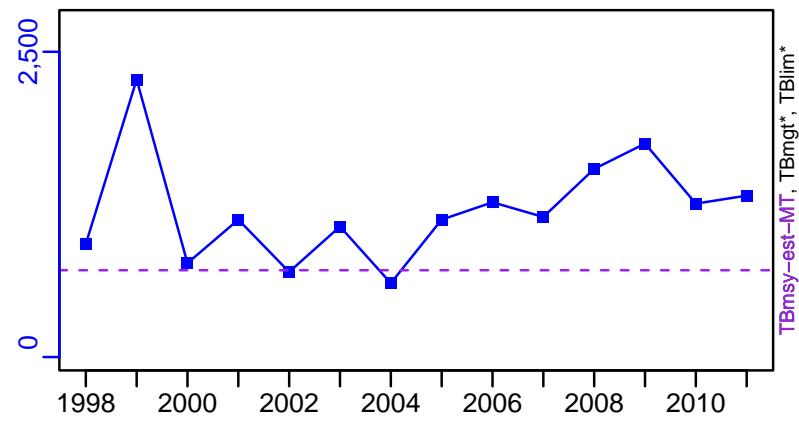


◆ Start Year ◆ End Year * No Data

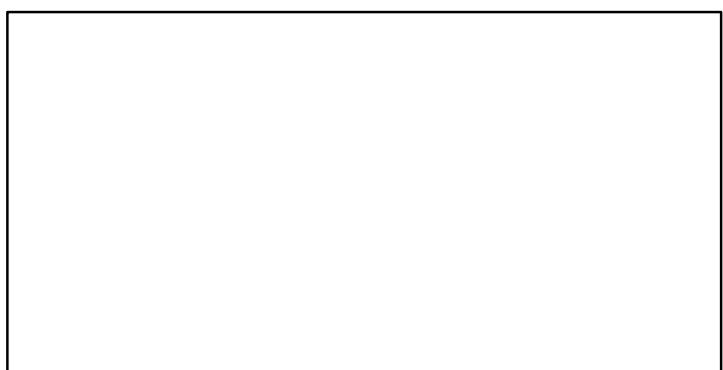
Ocean shrimp Shrimp Management Area PRD [PANDALSMAPRD]

TB-MT (1987–2011–WATSON)

SSB*



TN *

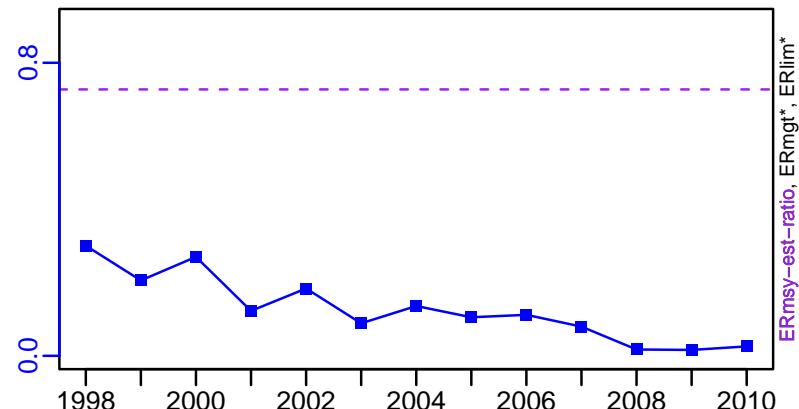


F*



ER-calc-ratio (1987–2011–WATSON)

Recruits*



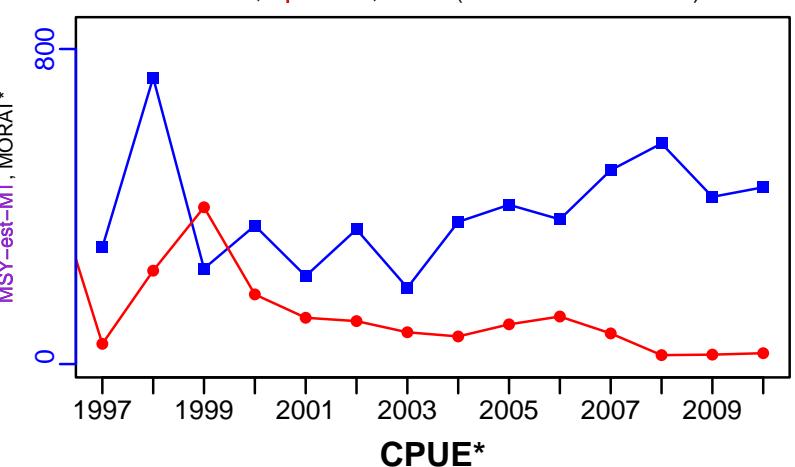
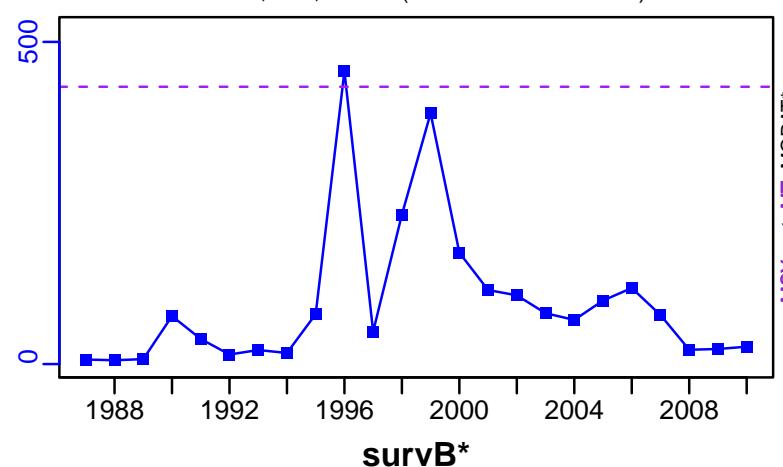
ER_{msy}-est-ratio, ER_{mgt}* , ER_{lim}*

- Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - - Lim BRP * No Data

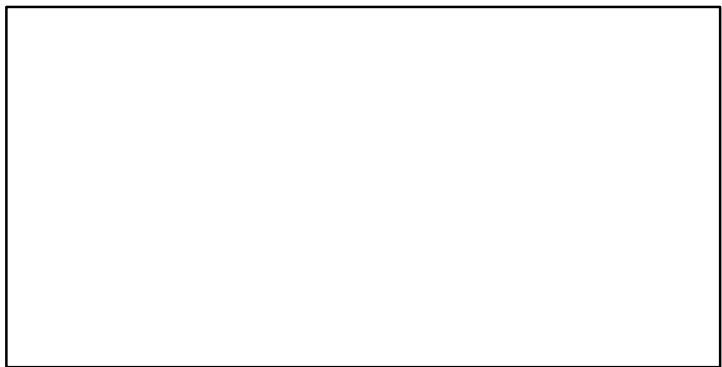
Ocean shrimp Shrimp Management Area PRD [PANDALSMAPRD]

TL-MT, TC*, RecC* (1987–2011–WATSON)

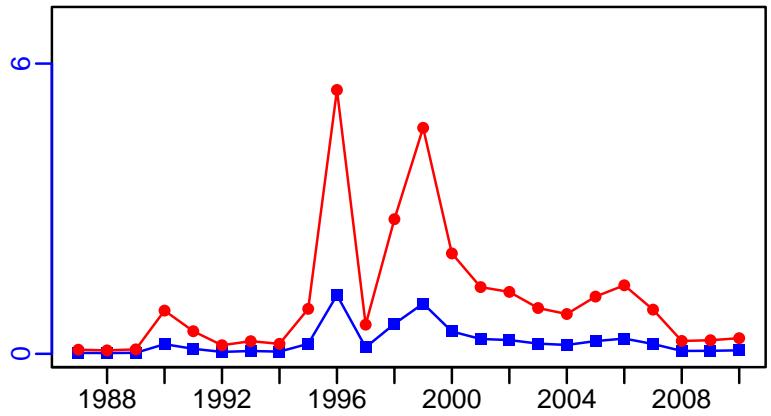
TAC-MT, Cpair-MT, Cadv* (1987–2011–WATSON)



EFFORT*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1987–2011–WATSON)



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

Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

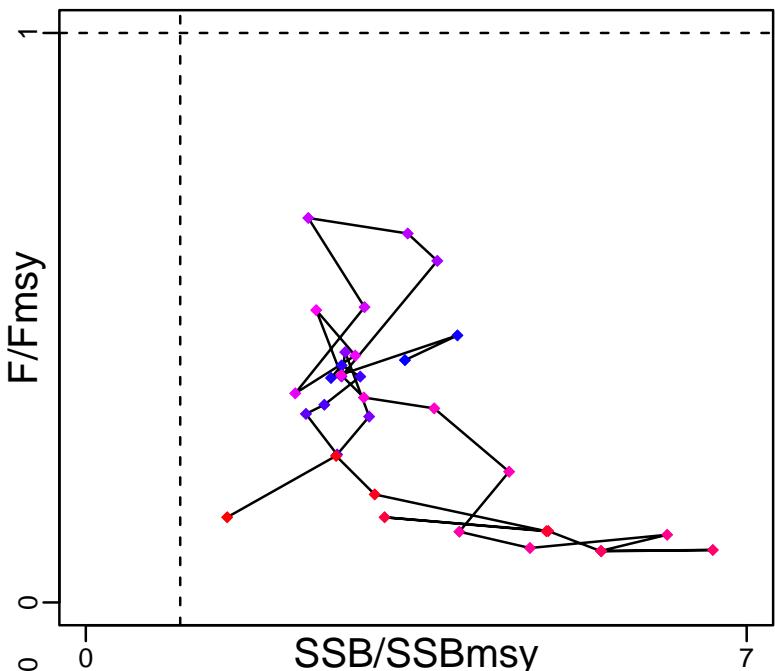
Metadata	
Scientific Name	Farfantepenaeus duorarum
Current Assess ID	SEFSC-PINKSHRIMPGM-1984-2017-SISIMP2021
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2013, 2014, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	10,750
Fmsy	Fmsy-1/yr	2017	1.34
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	10,750
Flim	-	-	-
ERlim	-	-	-

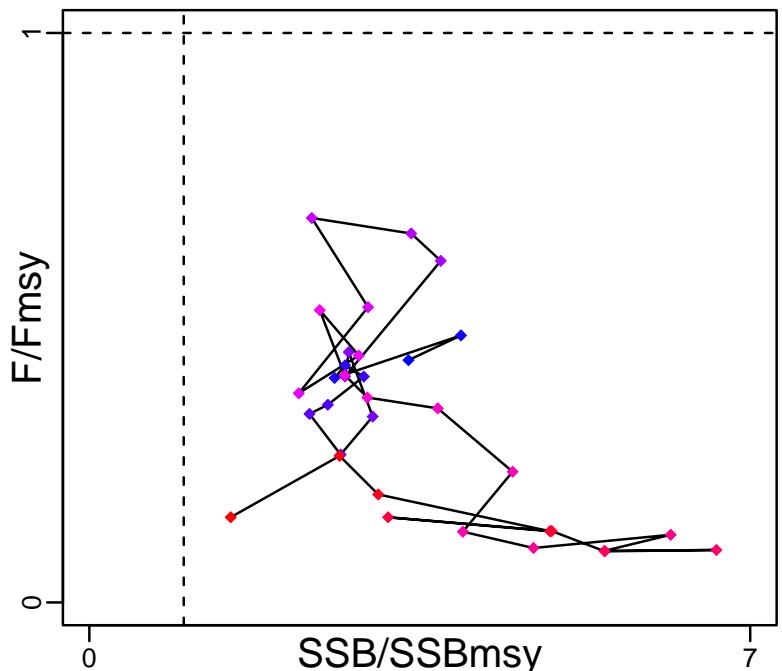
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	16,097	-	-
TN	-	-	-	-	-
R	R-E00	2017	3,017,759,000	-	-
F	F-1/yr	2017	0.2	-	-
ER	ER-ratio	2011	0.034	-	-
TC	TC-MT	2017	4503		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.497		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.15		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pink shrimp Gulf of Mexico [PINKSHRIMP-GM]

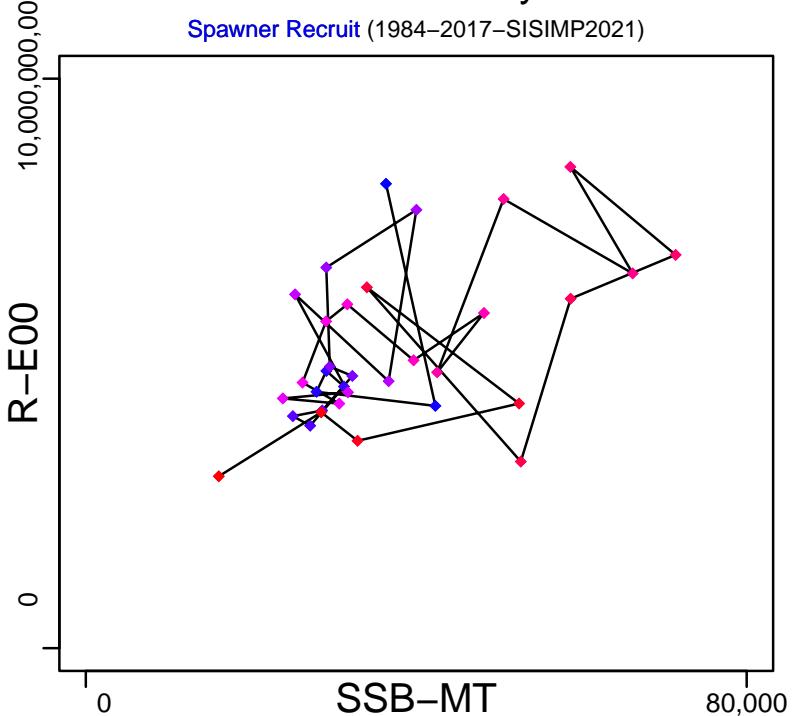
Kobe MSYpref (1984–2017–SISIMP2021)



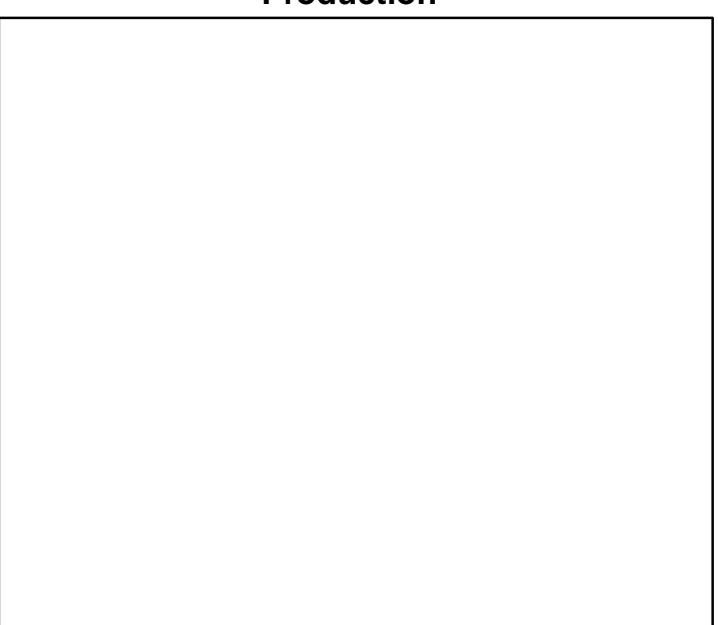
Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production*



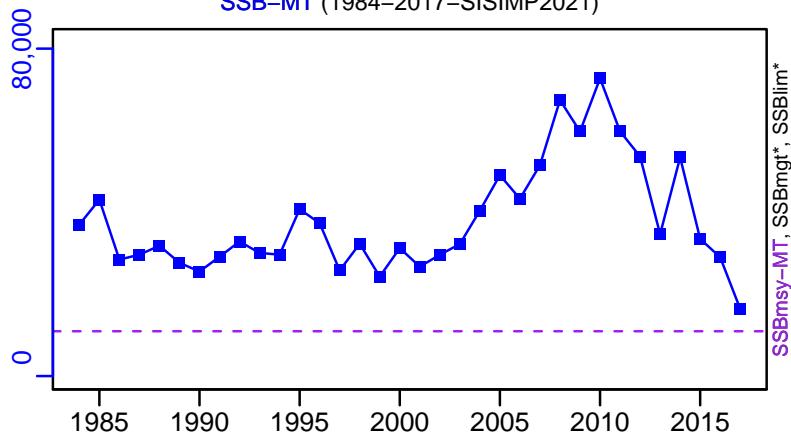
◆ Start Year	◆ End Year	*	No Data
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Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

TB*



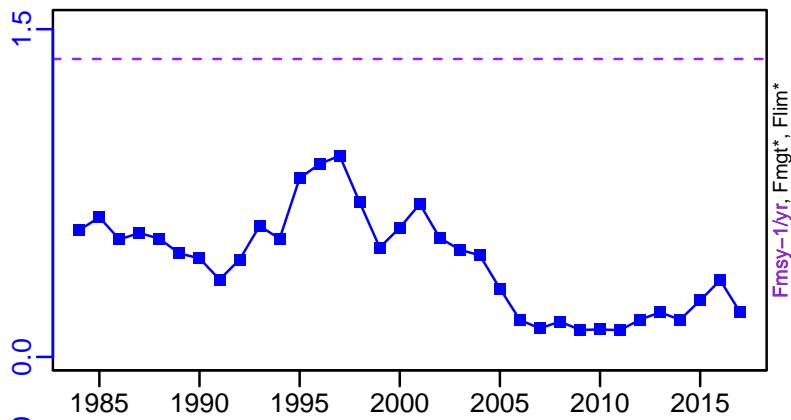
SSB-MT (1984–2017–SISIMP2021)



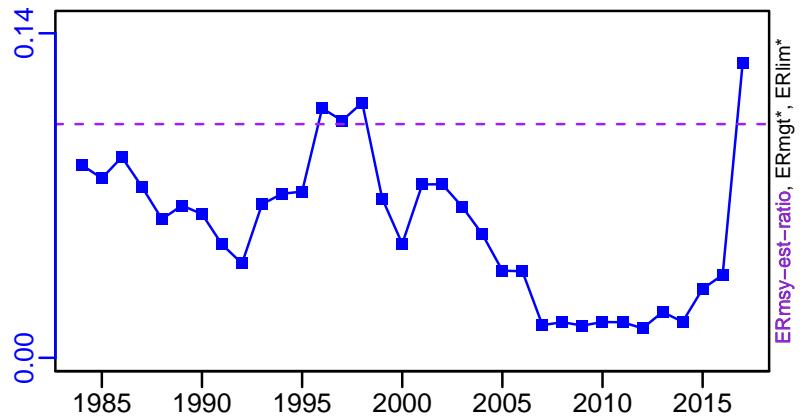
TN *



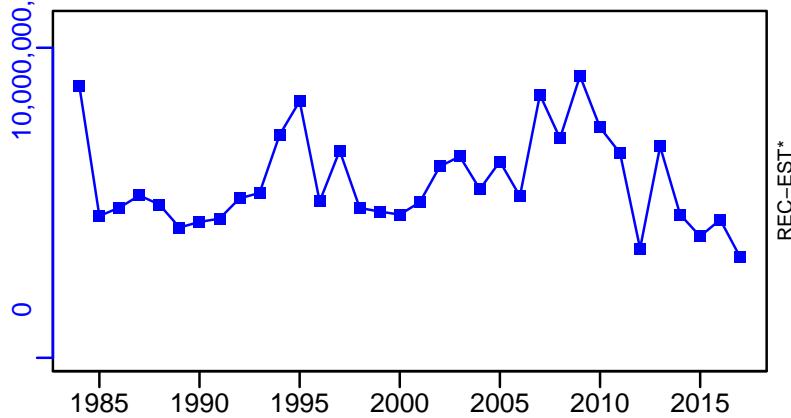
F-1/yr (1984–2017–SISIMP2021)



ER-calc-ratio (1984–2017–SISIMP2021)



R-E00 (1984–2017–SISIMP2021)

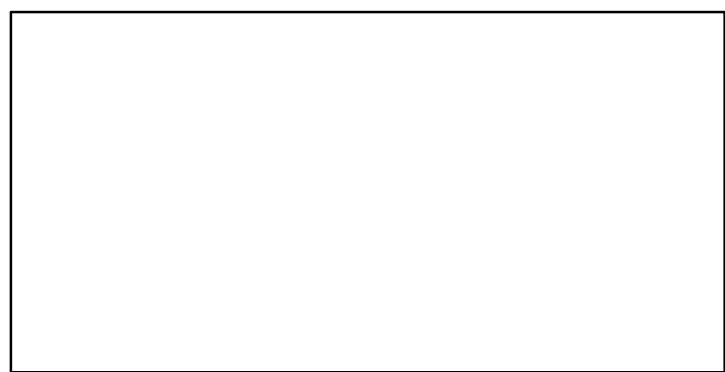
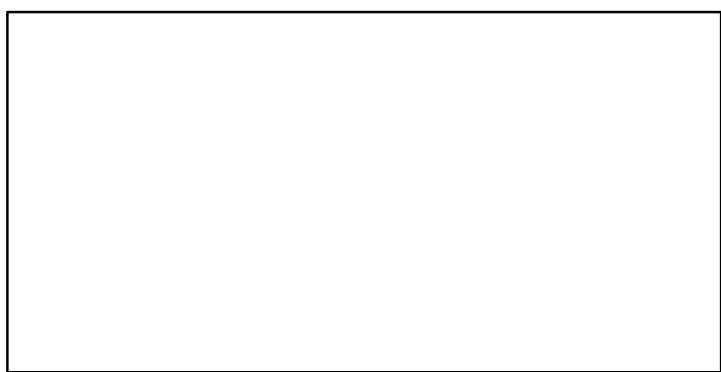
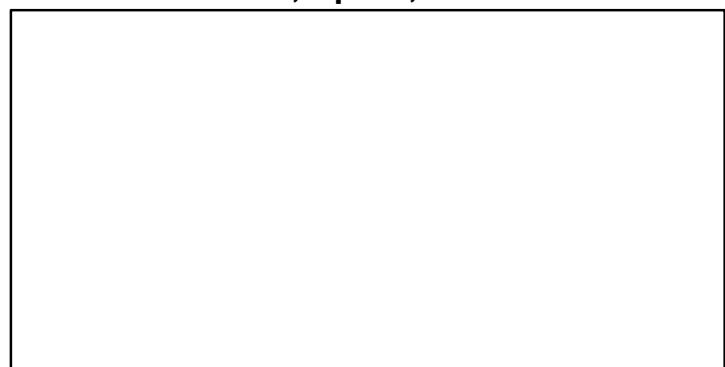
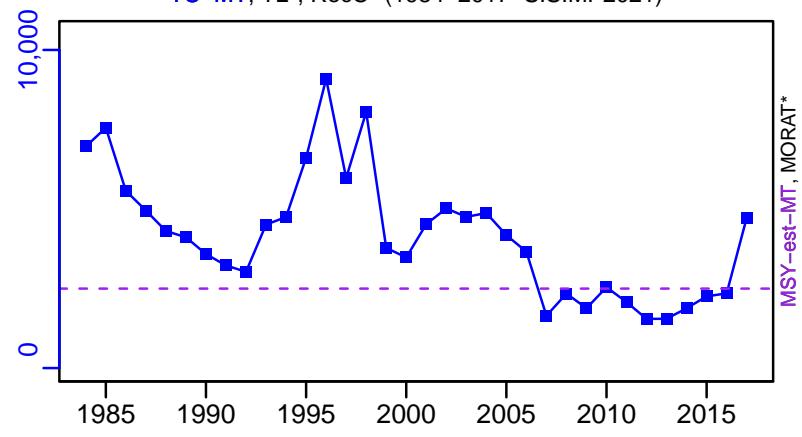


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

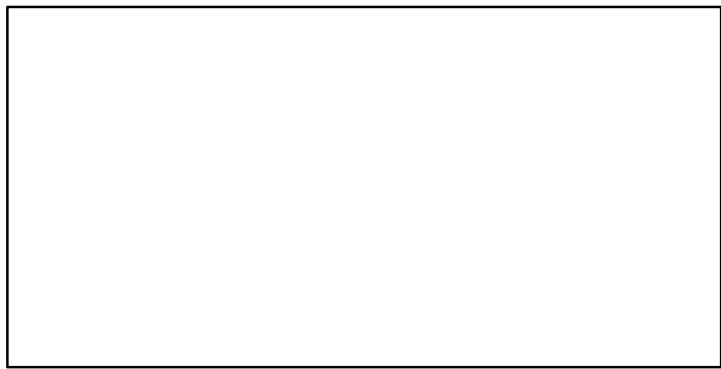
Pink shrimp Gulf of Mexico [PINKSHRIMPGM]

TC-MT, TL*, RecC* (1984–2017–SISIMP2021)

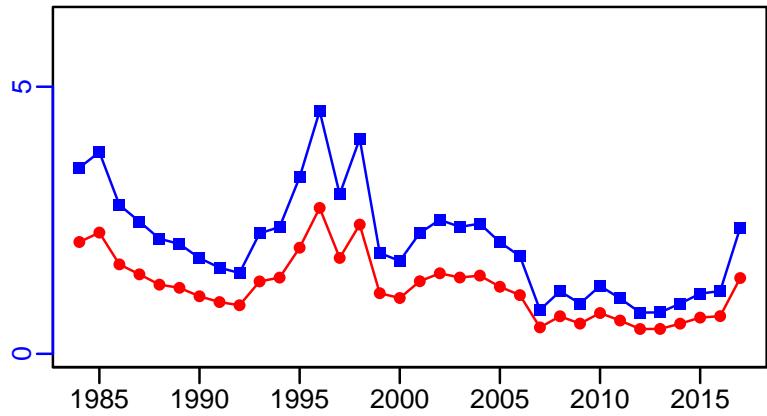
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1984–2017–SISIMP2021)



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

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

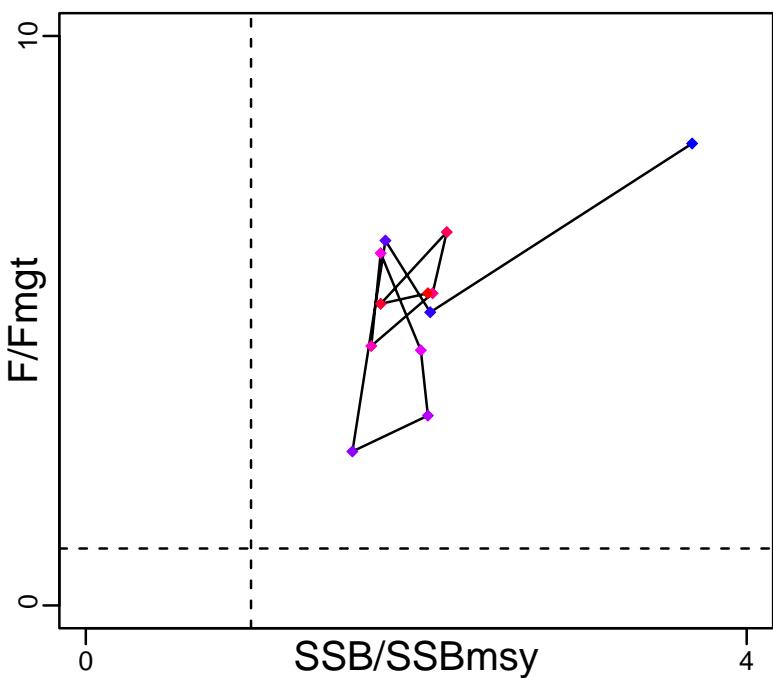
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-PSHRMPMEDGSA6-2001-2012-OSIO
Area	Northern Spain
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM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

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

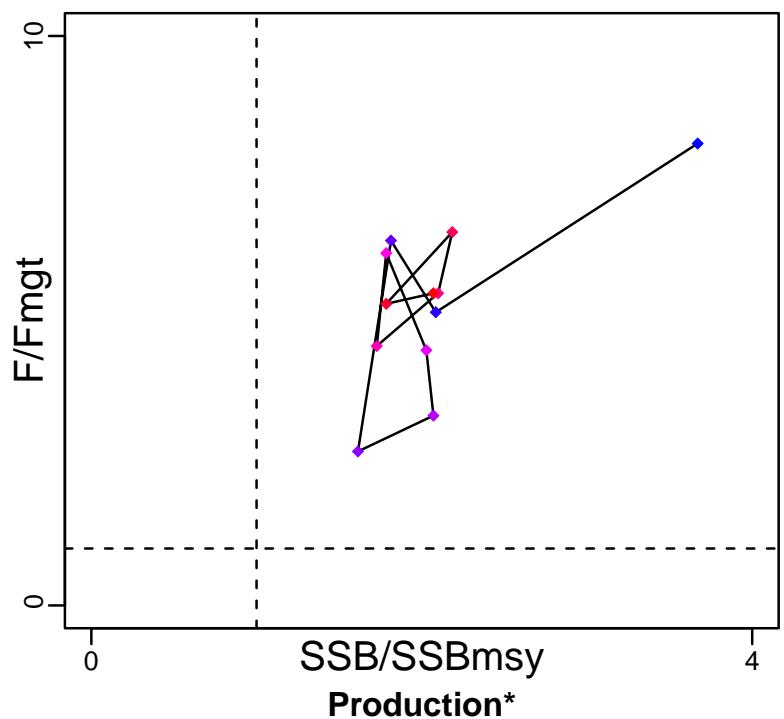
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	145	-	2+
TN	-	-	-	-	-
R	R-E00	2012	1.26×10^8	-	-
F	F-1/yr	2012	1.48	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	120		
TL	TL-MT	2011	92		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt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

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

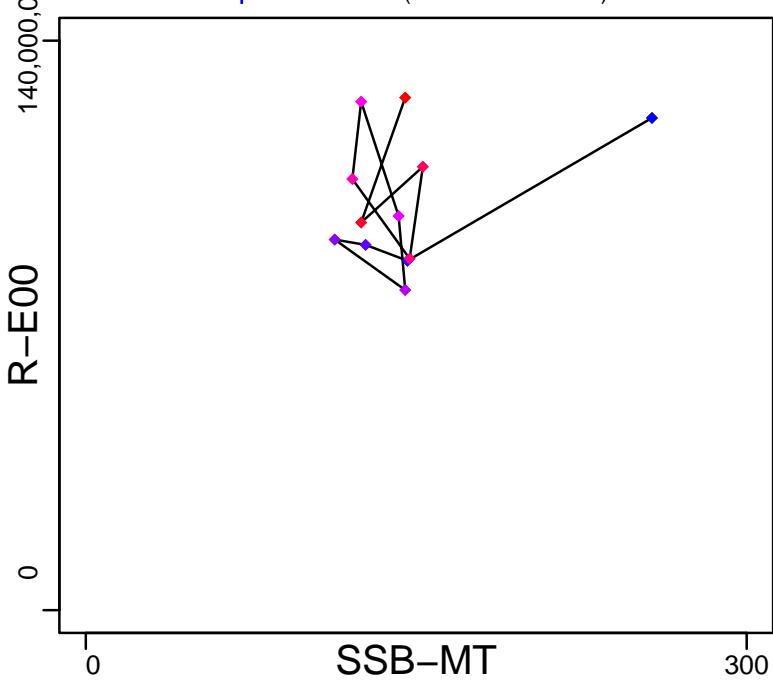
Kobe MSYpref (2001–2012–OSIO)



Kobe MGTpref (2001–2012–OSIO)



Spawner Recruit (2001–2012–OSIO)



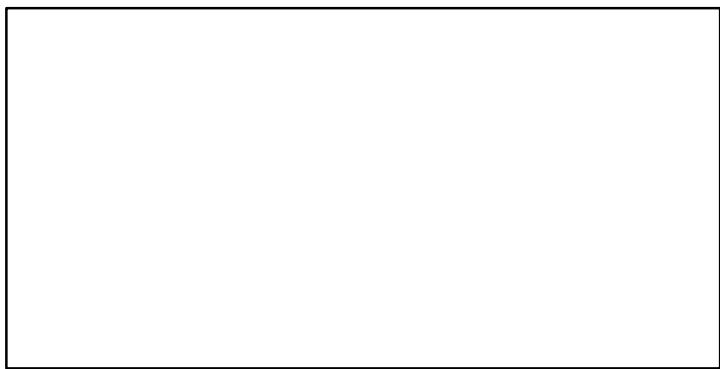
Production*



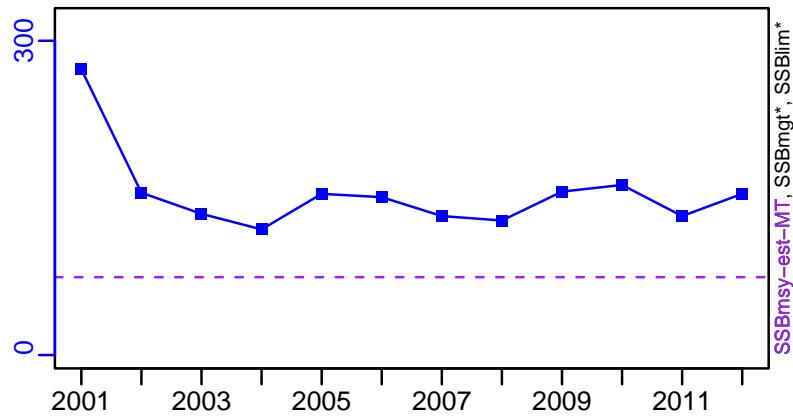
♦ Start Year ♦ End Year * No Data

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

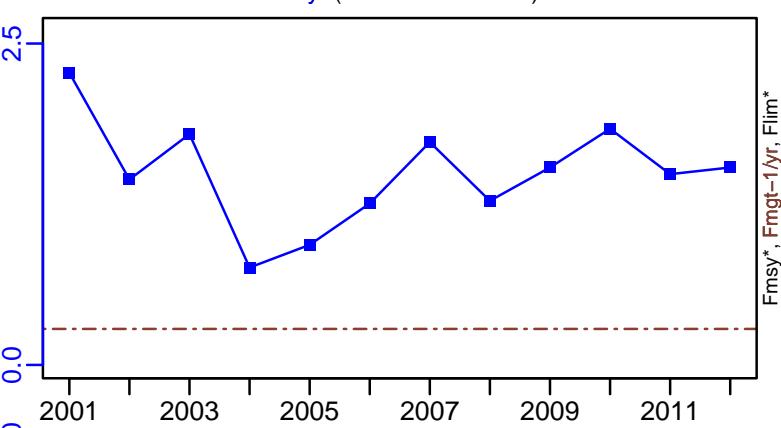
TB*



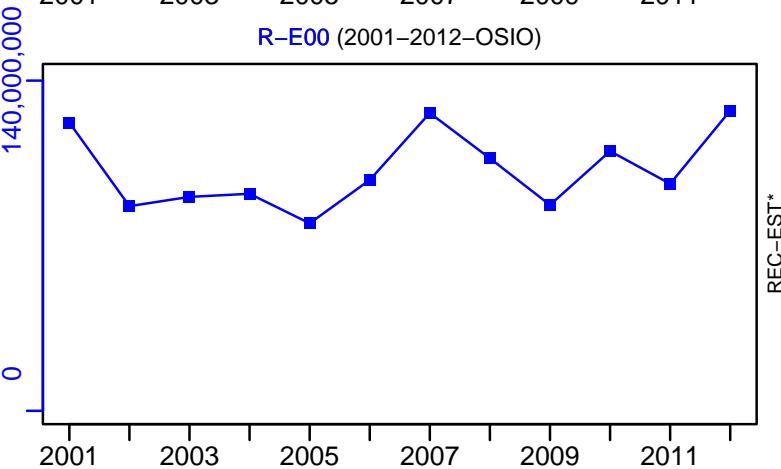
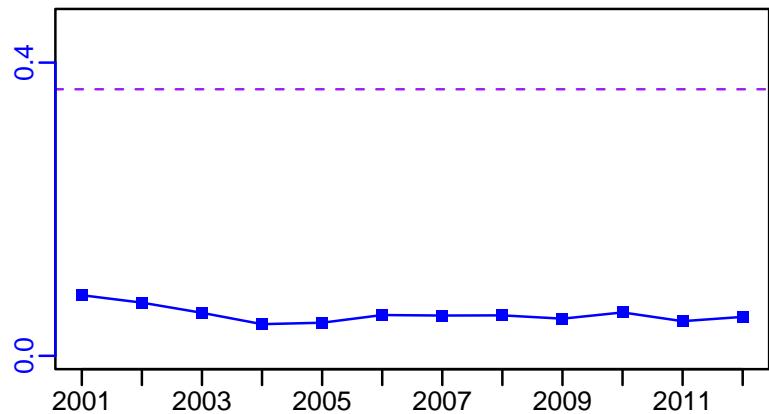
SSB-MT (2001–2012–OSIO)



TN *



ER-calc-ratio (2001–2012–OSIO)

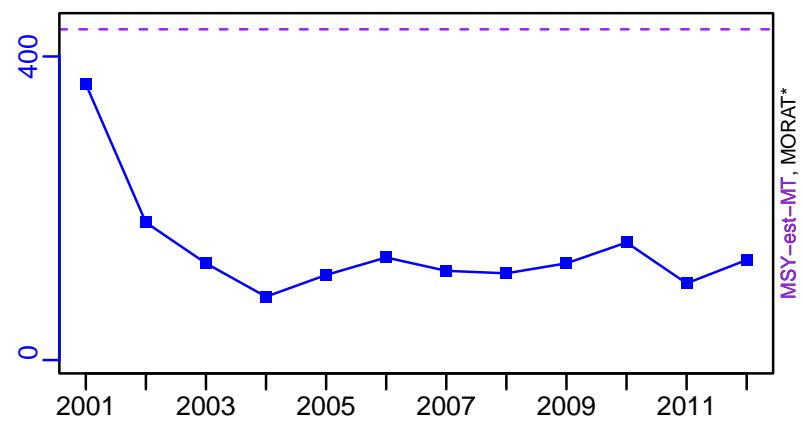


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - Lim BRP	* No Data

Deep water rose shrimp Northern Spain [PSHRMPMEDGSA6]

TC-MT, TL*, RecC* (2001–2012–OSIO)

TAC*, Cpair*, Cadv*



survB*

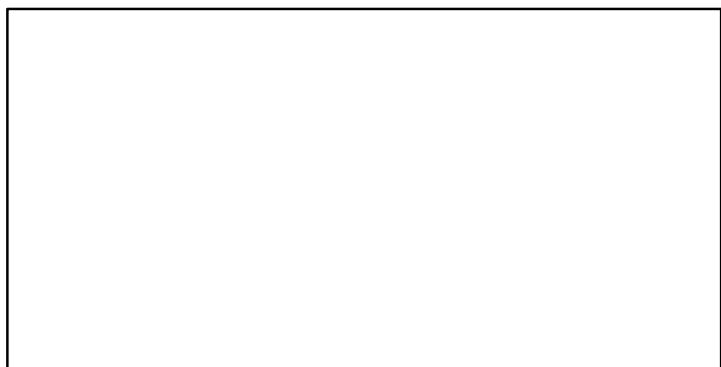
MSY-est-MT, MORAT*



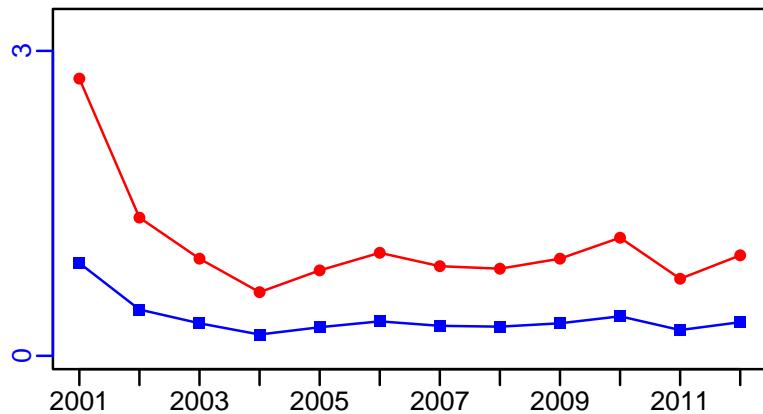
CPUE*



EFFORT*



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



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

Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

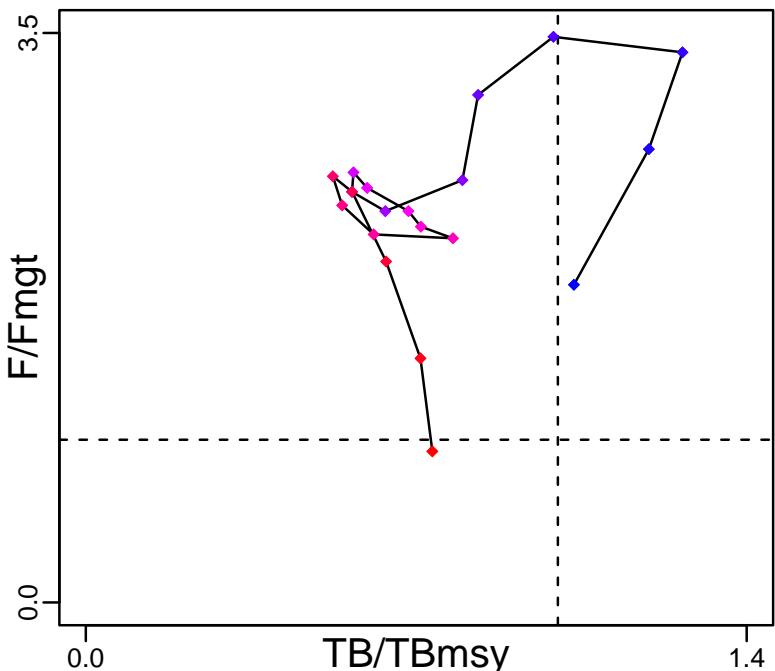
Metadata	
Scientific Name	Aristeus antennatus
Current Assess ID	WGSAD-RDSHRMPMEDGSA1-2002-2021-HIVELY
Area	Northern Alboran Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Working Group on Stock Assessment of Demersal Species
Asmts in RAM	2014, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2021	0.42
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	1287
Flim	-	-	-
ERlim	-	-	-

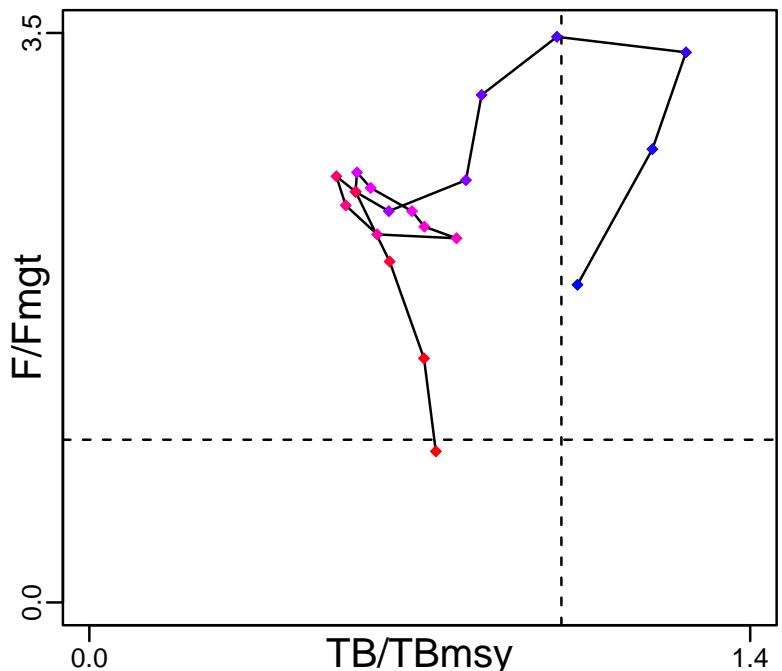
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2021	717	-	-	
SSB	SSB-MT	2021	322	-	-	
TN	-	-	-	-	-	
R	R-E00	2021	79,270,000	-	0	
F	F-1/yr	2021	0.39	-	-	
ER	ER-calc-ratio	2021	0.121	-	-	
TC	TC-MT	2021	87			
TL	TL-MT	2021	87			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.929			
ER/ERmgt	-	-	-			

Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

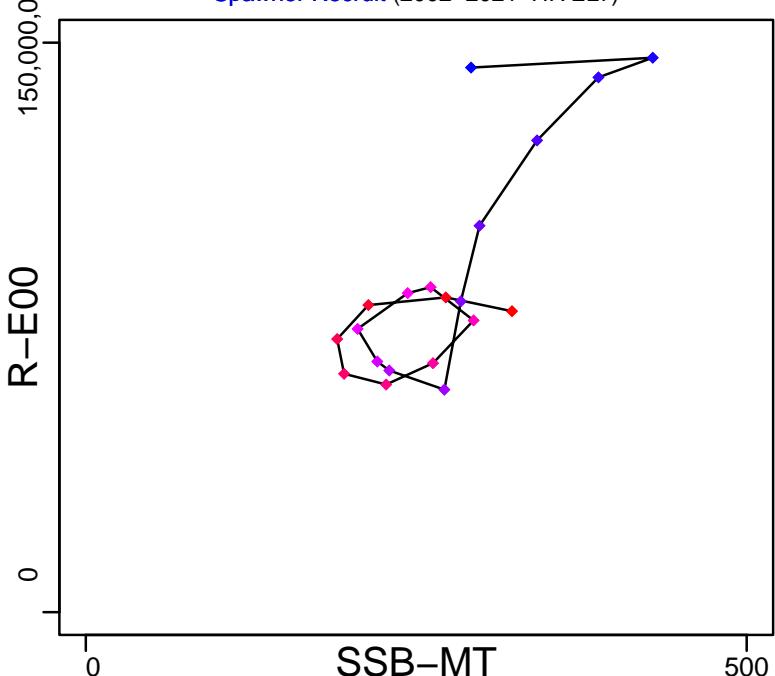
Kobe MSYpref (2002–2021–HIVELY)



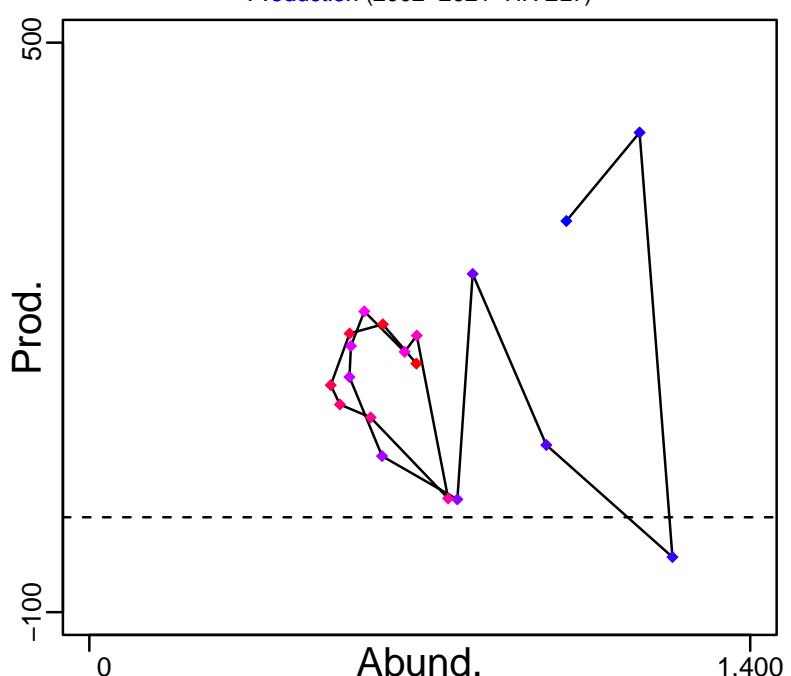
Kobe MGTPref (2002–2021–HIVELY)



Spawner Recruit (2002–2021–HIVELY)



Production (2002–2021–HIVELY)

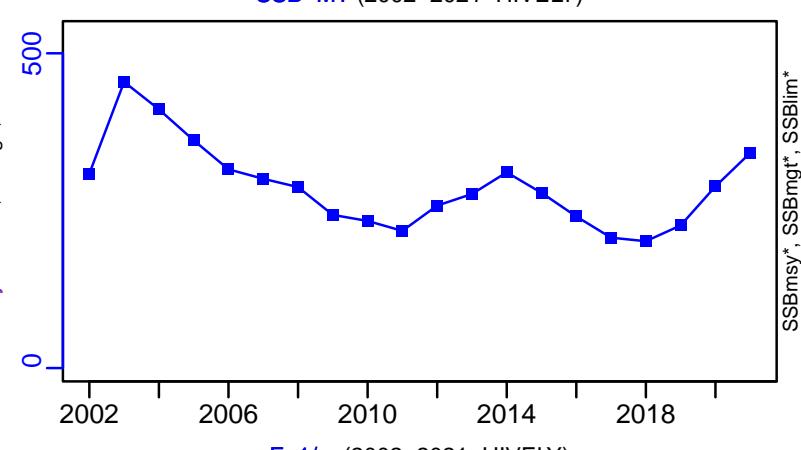
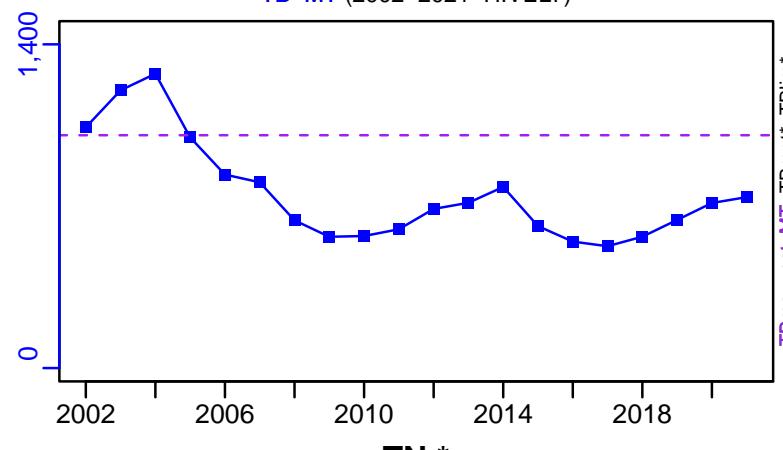


◆ Start Year ◆ End Year * No Data

Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

TB-MT (2002–2021-HIVELY)

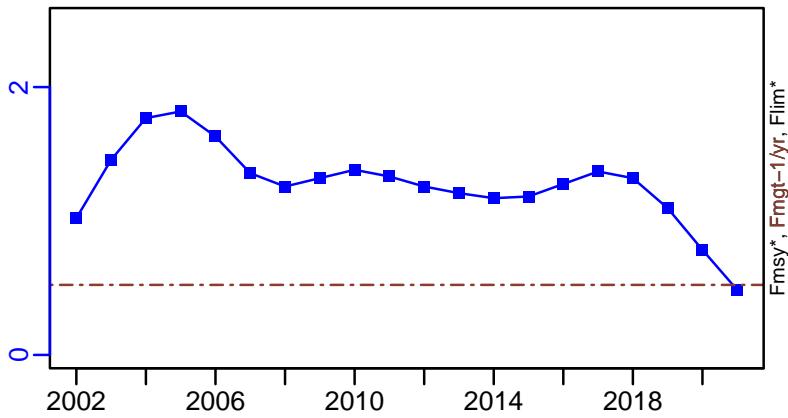
SSB-MT (2002–2021-HIVELY)



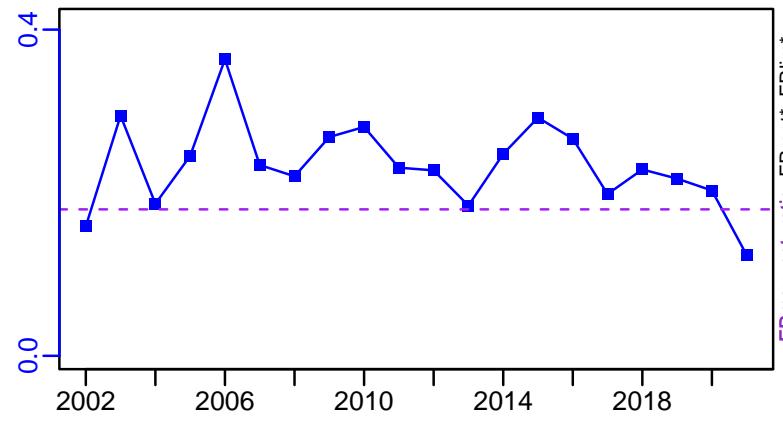
TN *



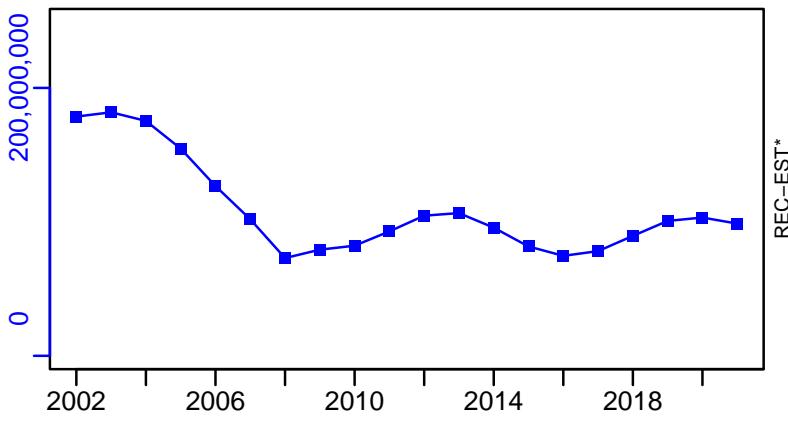
F-1/yr (2002–2021-HIVELY)



ER-calc-ratio (2002–2021-HIVELY)



R-E00 (2002–2021-HIVELY)

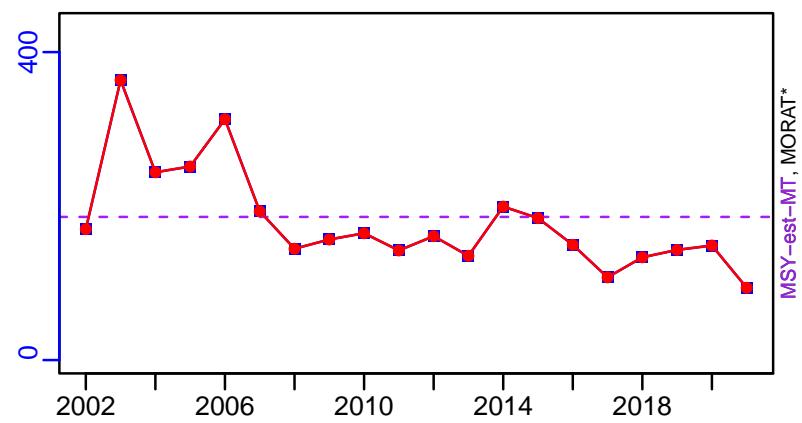


■ Listed time series	— Target BRP	— Rec-Est
- - MSY-based BRP	- - Lim BRP	* No Data

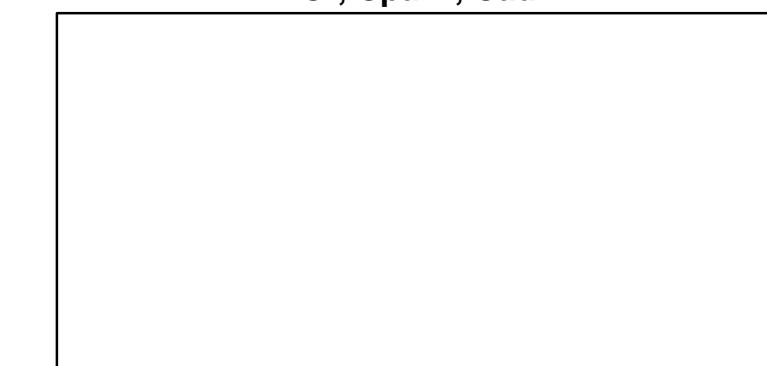
Red shrimp Northern Alboran Sea [RDSHRMPMEDGSA1]

TC-MT, TL-MT, RecC* (2002–2021–HIVELY)

TAC*, Cpair*, Cadv*



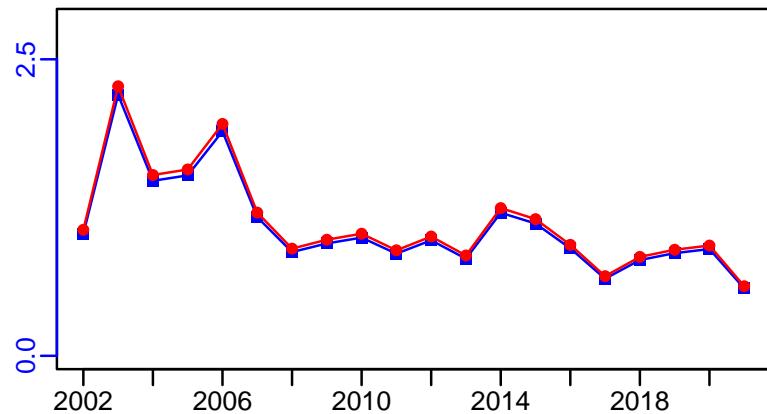
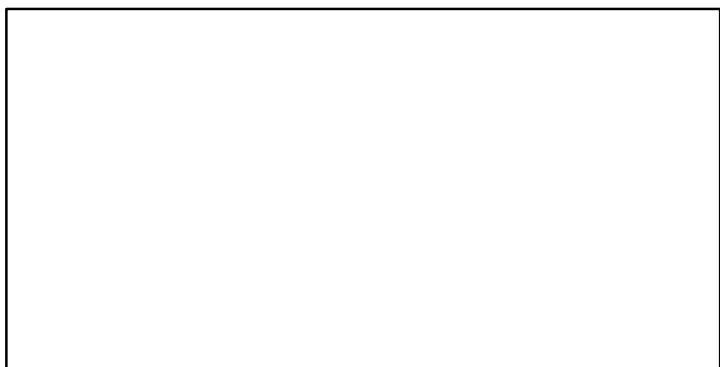
survB*



CPUE*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (2002–2021–HIVELY)



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

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

TB*



SSB*



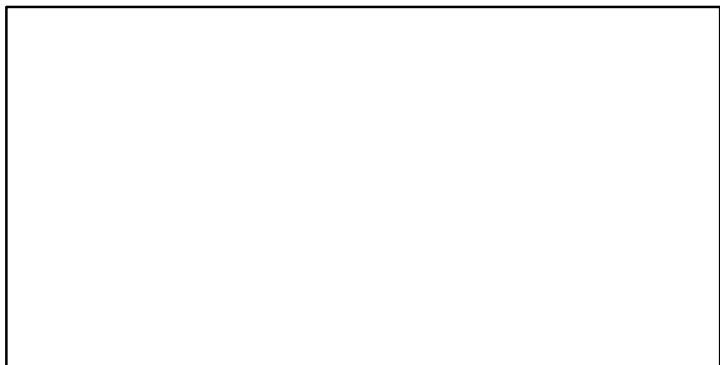
TN *



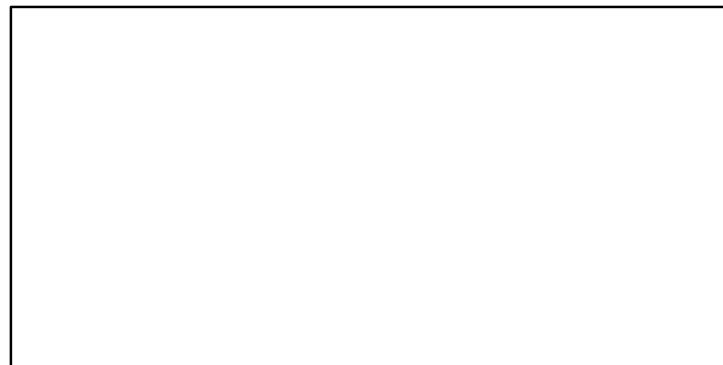
F*



ER*



Recruits*

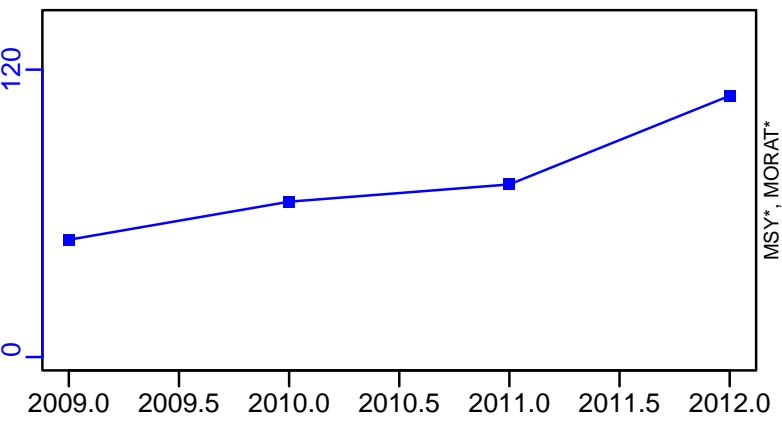


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

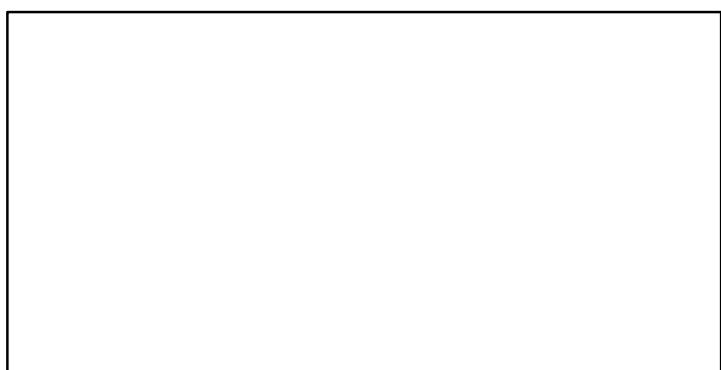
Red shrimp Malta Island and South of Sicily (GSA 15, 16) [RDSHRMPMEDGSA15–16]

TC-MT, TL*, RecC* (2009–2012–OSIO)

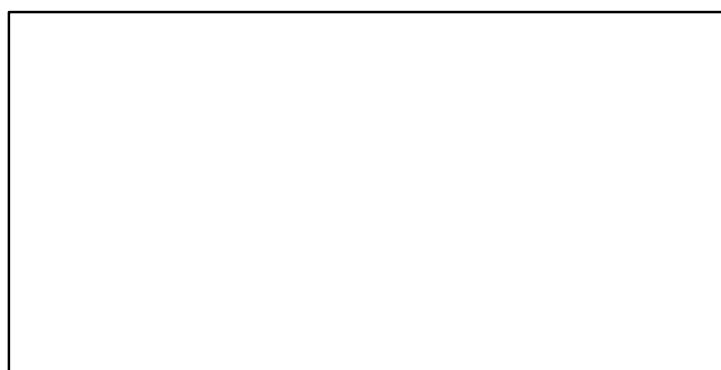
TAC*, Cpair*, Cadv*



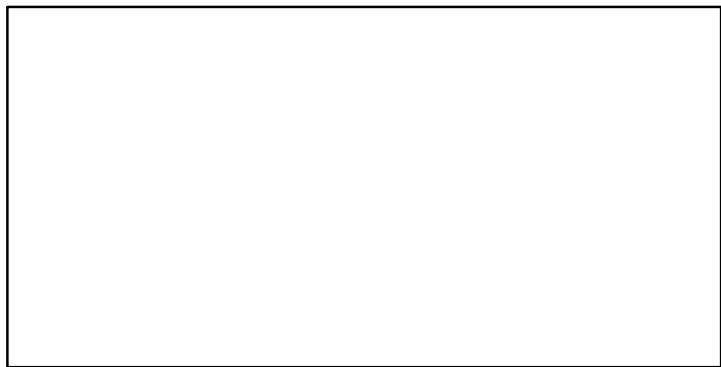
survB*



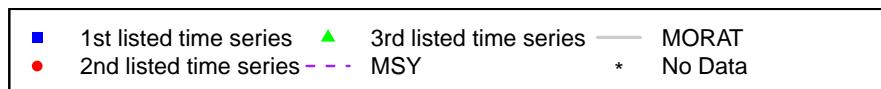
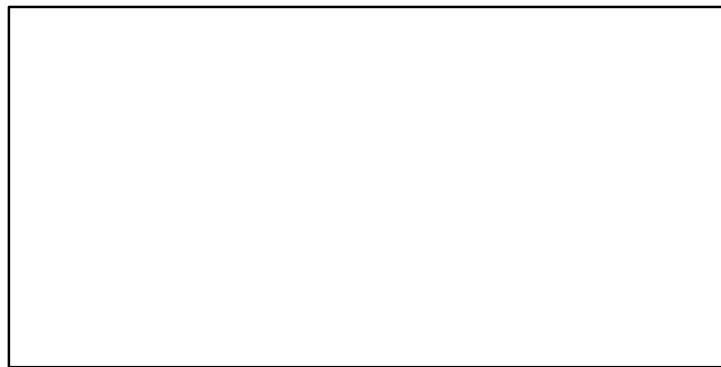
CPUE*



EFFORT*



CdivMSY*



Red shrimp Geographical Sub-Areas 6-7 [RDSHRMPMEDGSA6-7]

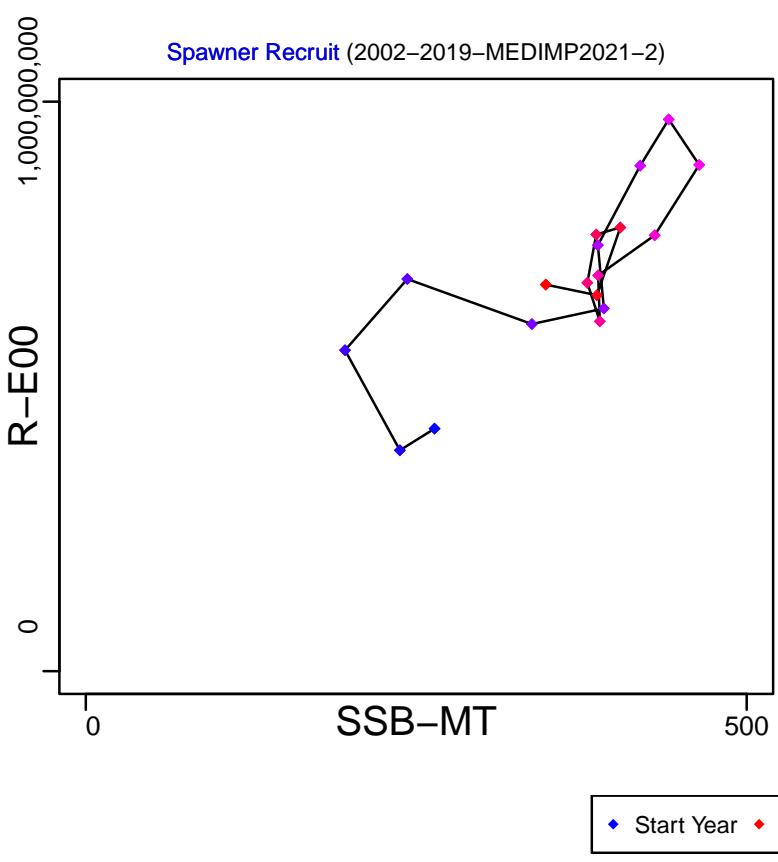
Metadata	
Scientific Name	Aristeus antennatus
Current Assess ID	STECF-RDSHRMPMEDGSA6-7-2002-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 6-7
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.288
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	348	-	-
TN	-	-	-	-	-
R	R-E00	2019	678,770,728	-	-
F	F-1/yr	2019	1.305	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	566		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	4.538		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

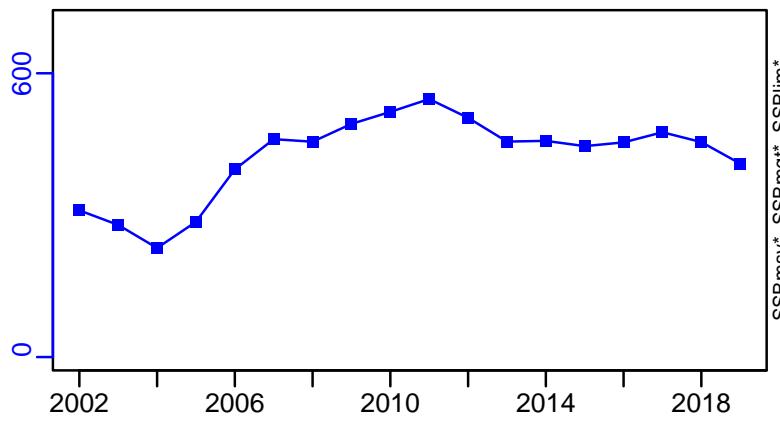


Red shrimp Geographical Sub-Areas 6–7 [RDSHRMPMEDGSA6–7]

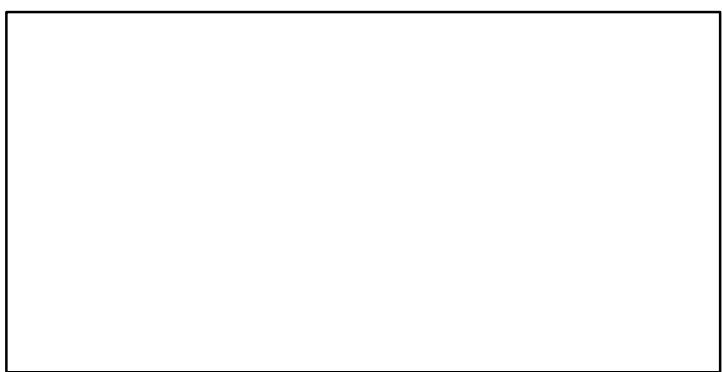
TB*



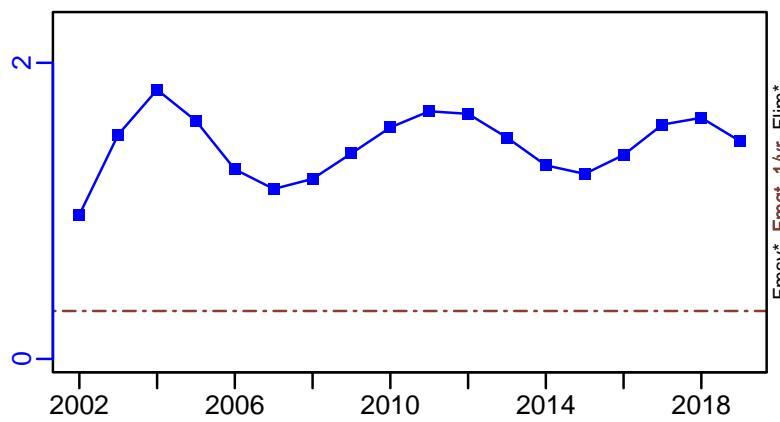
SSB-MT (2002–2019–MEDIMP2021–2)



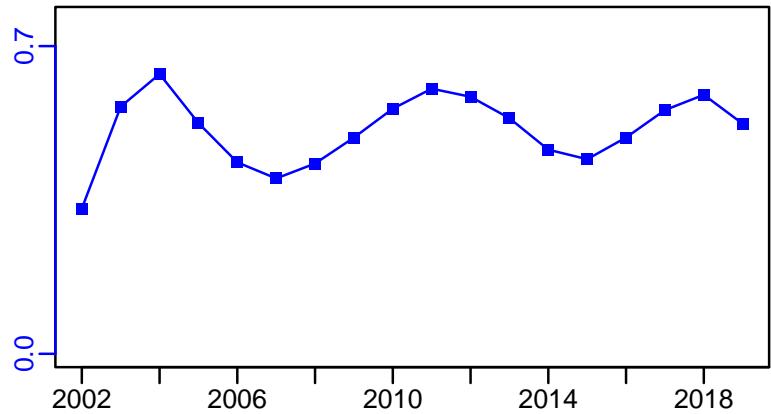
TN *



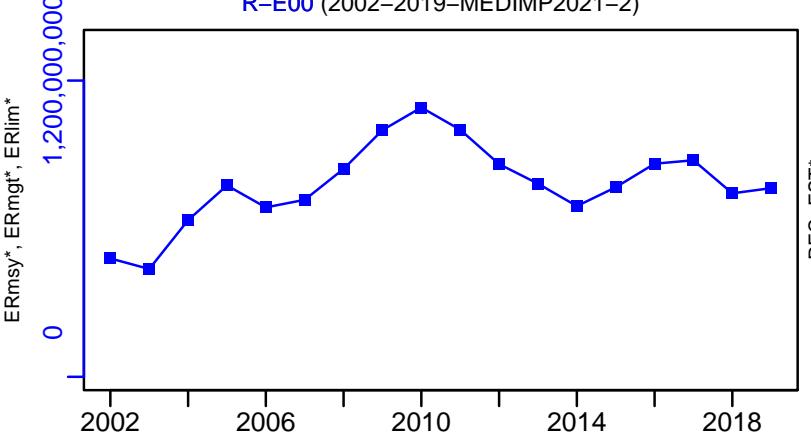
F-1/yr (2002–2019–MEDIMP2021–2)



ER-calc-ratio (2002–2019–MEDIMP2021–2)



R-E00 (2002–2019–MEDIMP2021–2)

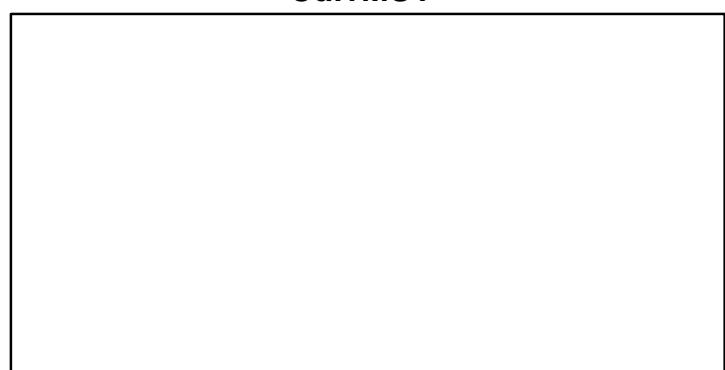
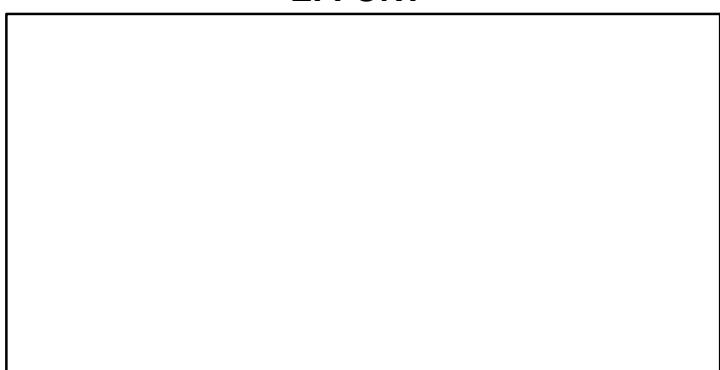
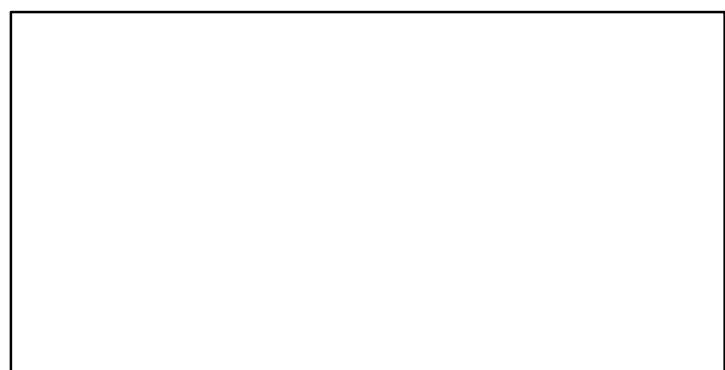
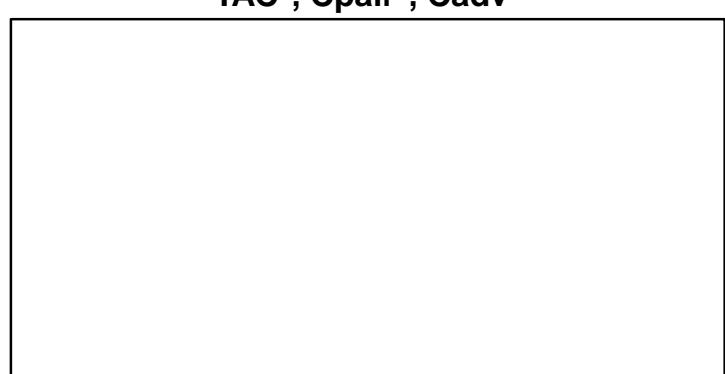
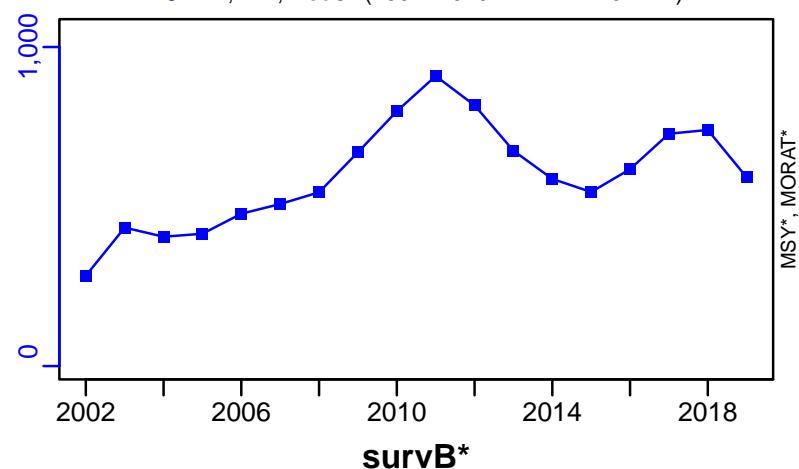


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	--- Lim BRP	* No Data

Red shrimp Geographical Sub-Areas 6–7 [RDSHRMPMEDGSA6–7]

TC–MT, TL*, RecC* (2002–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



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

Red shrimp Geographical Sub-Areas 9-11 [RDSHRMPMEDGSA9-11]

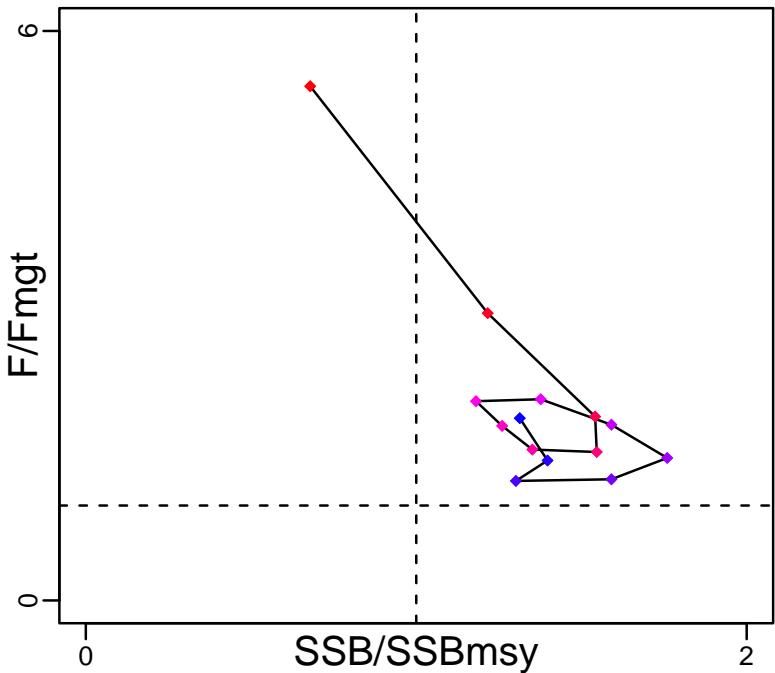
Metadata	
Scientific Name	Aristeus antennatus
Current Assess ID	STECF-RDSHRMPMEDGSA9-11-2006-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 9-11
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.328
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

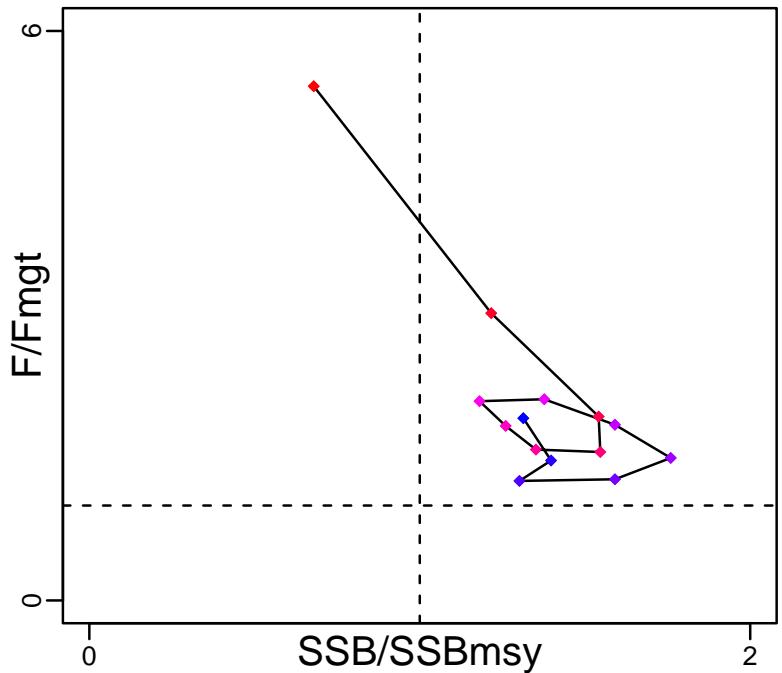
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	232	-	-
TN	-	-	-	-	-
R	R-E00	2019	43,108,168	-	-
F	F-1/yr	2019	1.778	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	366		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	5.418		
ER/ERmgt	-	-	-		

Red shrimp Geographical Sub-Areas 9–11 [RDSHRMPMEDGSA9–11]

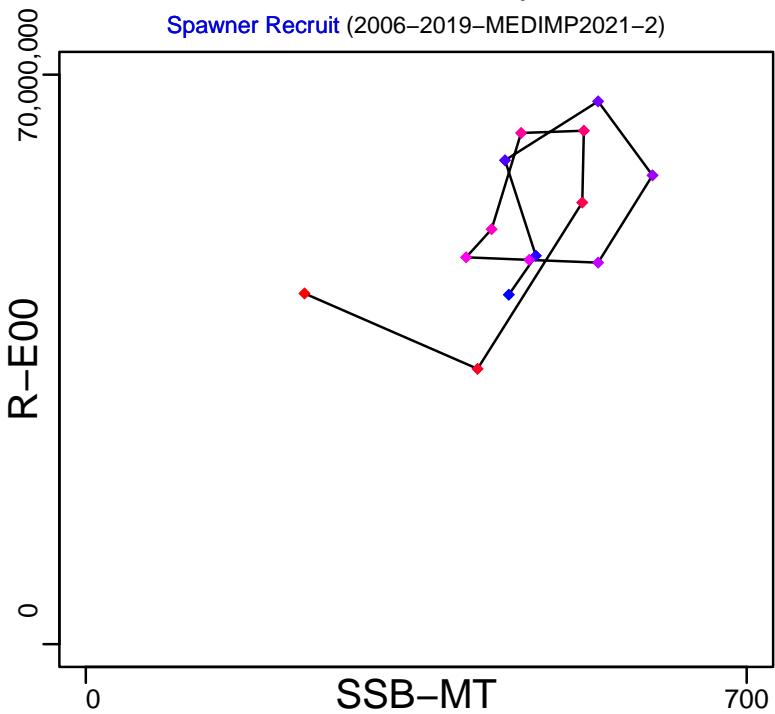
Kobe MSYpref (2006–2019–MEDIMP2021–2)



Kobe MGTpref (2006–2019–MEDIMP2021–2)



Spawner Recruit (2006–2019–MEDIMP2021–2)



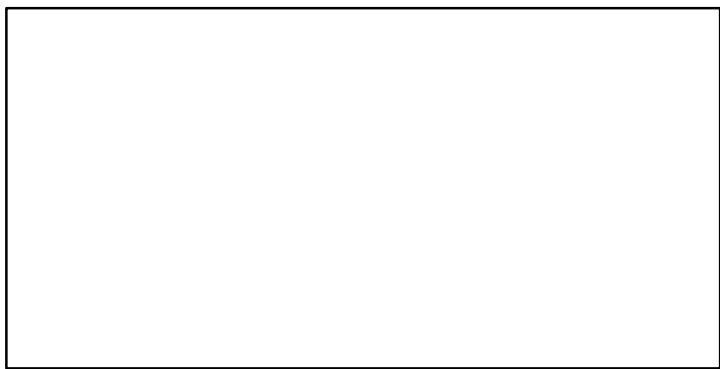
Production*



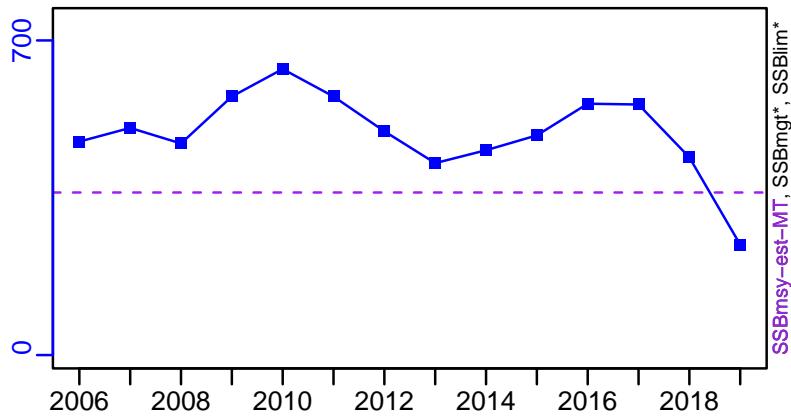
◆ Start Year ◆ End Year * No Data

Red shrimp Geographical Sub-Areas 9–11 [RDSHRMPMEDGSA9–11]

TB*



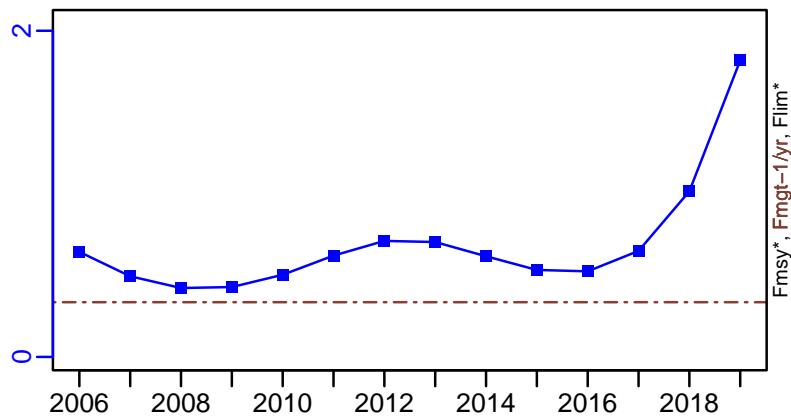
SSB-MT (2006–2019–MEDIMP2021–2)



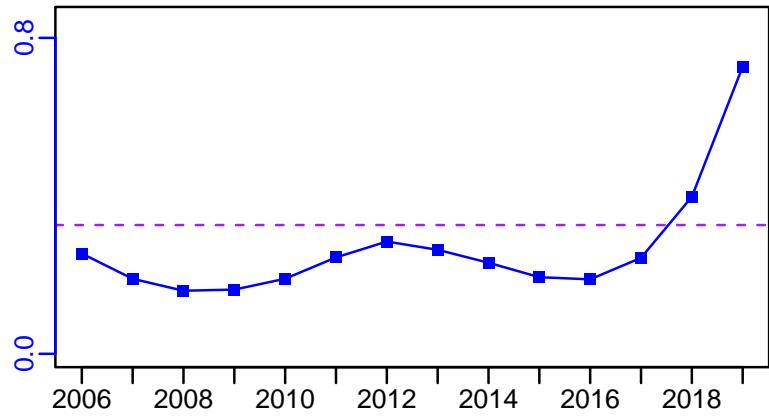
TN *



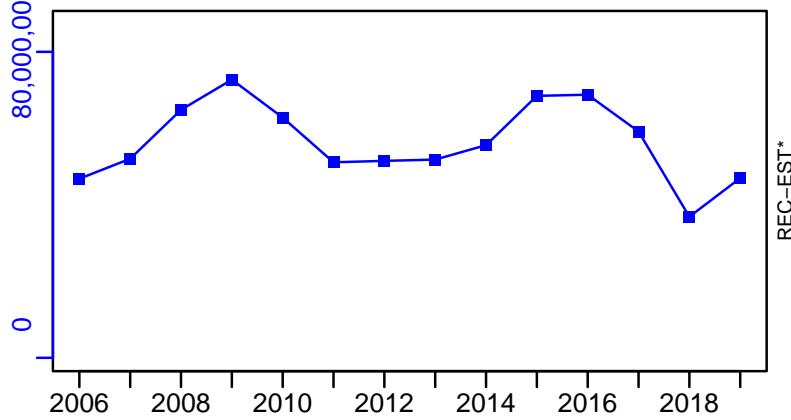
F-1/yr (2006–2019–MEDIMP2021–2)



ER-calc-ratio (2006–2019–MEDIMP2021–2)



R-E00 (2006–2019–MEDIMP2021–2)

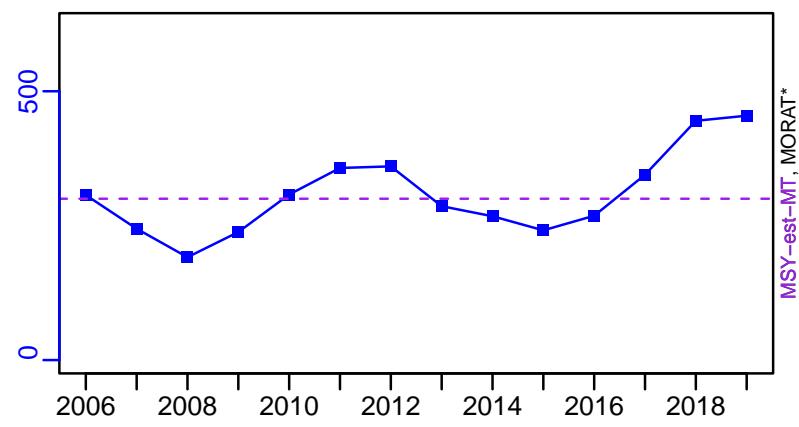


■ Listed time series	— Target BRP	— Rec-Est
— MSY-based BRP	— Lim BRP	* No Data

Red shrimp Geographical Sub-Areas 9–11 [RDSHRMPMEDGSA9–11]

TC–MT, TL*, RecC* (2006–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



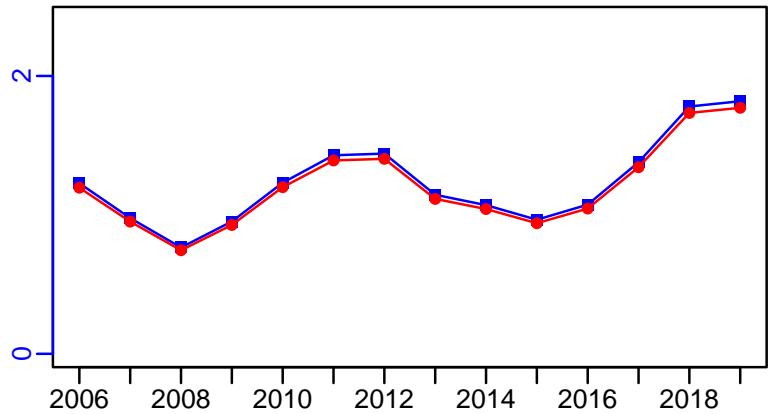
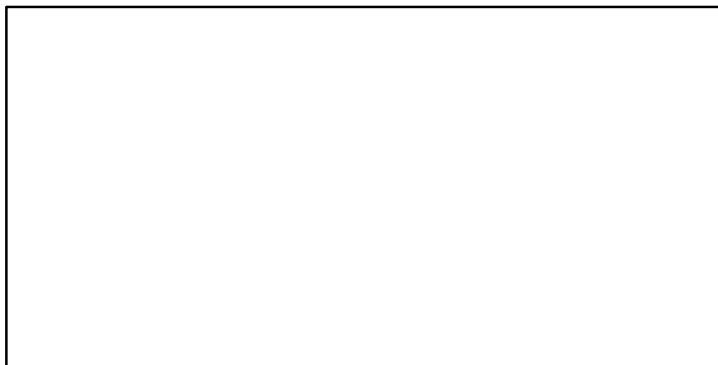
survB*

MSY-est-MT, MORAT*

CPUE*

EFFORT*

TC–MT/MSY–est–MT, CdivMEANC–ratio, (2006–2019–MEDIMP2021–2)



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

Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

Metadata	
Scientific Name	Pleoticus robustus
Current Assess ID	SEFSC-RRSHRIMPGM-1994-2019-SISIMP2021-2
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2019	54		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Royal red shrimp Gulf of Mexico [RRSHRIMPGM]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Royal red shrimp Gulf of Mexico [RRSHRIMP GM]

TB*



SSB*



TN *



F*



ER*



Recruits*

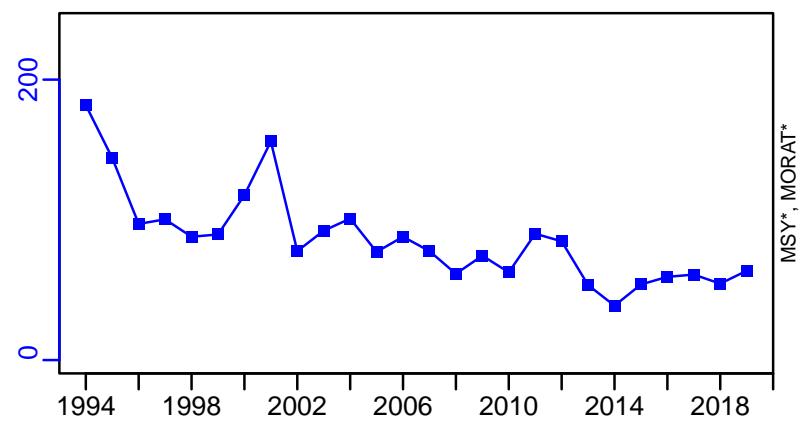


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Royal red shrimp Gulf of Mexico [RRSHRIMP GM]

TC-MT, TL*, RecC* (1994–2019–SISIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

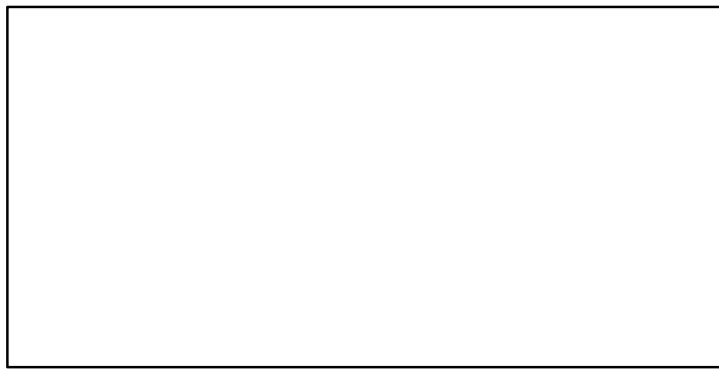
MSY*, MORAT*



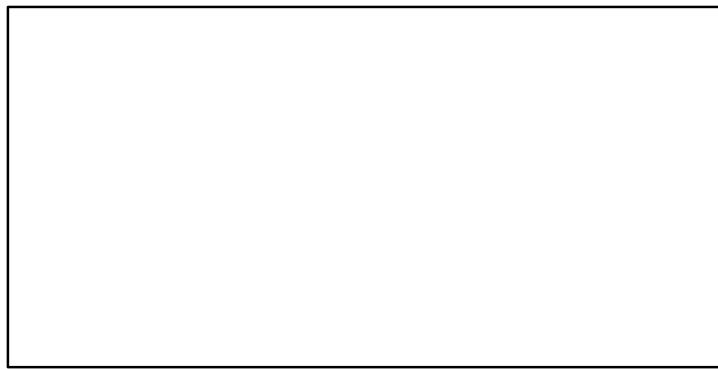
CPUE*



EFFORT*



CdivMSY*



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

Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

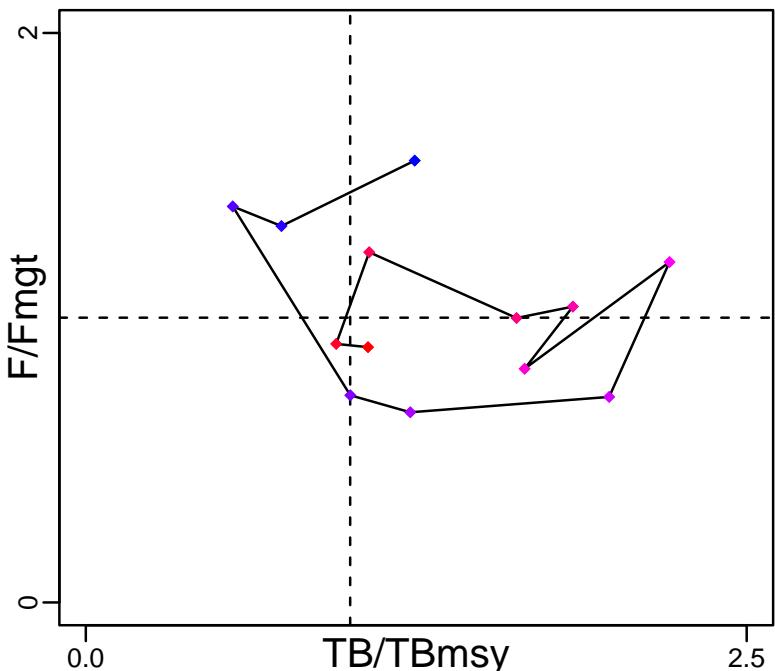
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-RSHRMPMEDGSA1-2003-2015-OSIO
Area	Northern Alboran Sea
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2015	0.87
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

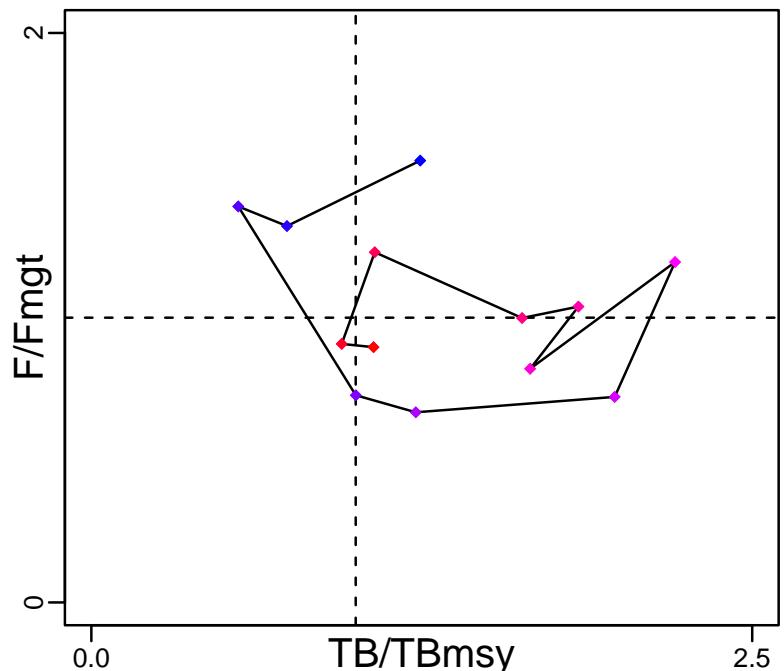
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	701	-	-
SSB	SSB-MT	2015	127	Both	-
TN	-	-	-	-	-
R	R-E00	2015	2.9×10^8	-	-
F	F-1/yr	2015	0.78	-	-
ER	ER-calc-ratio	2015	0.163	-	-
TC	TC-MT	2015	114		
TL	TL-MT	2015	114		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
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]

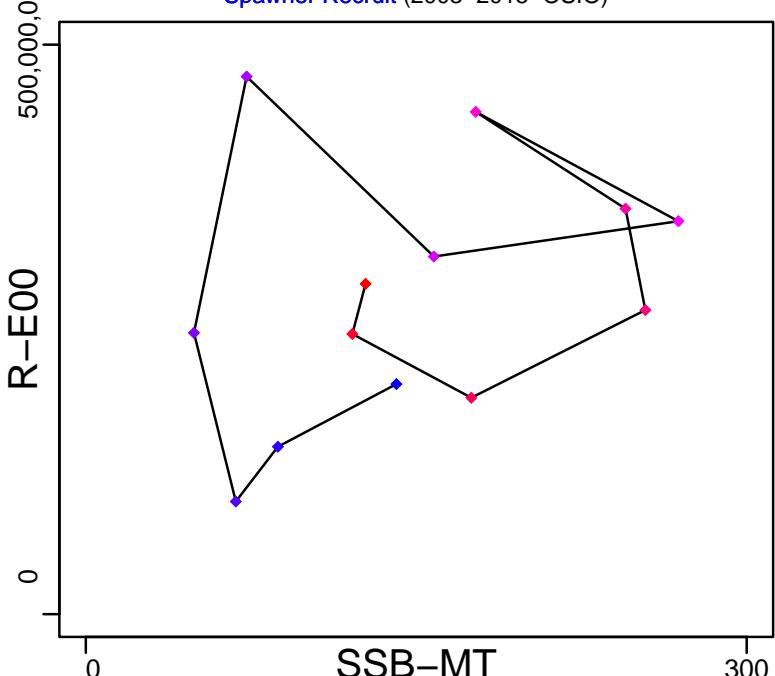
Kobe MSYpref (2003–2015–OSIO)



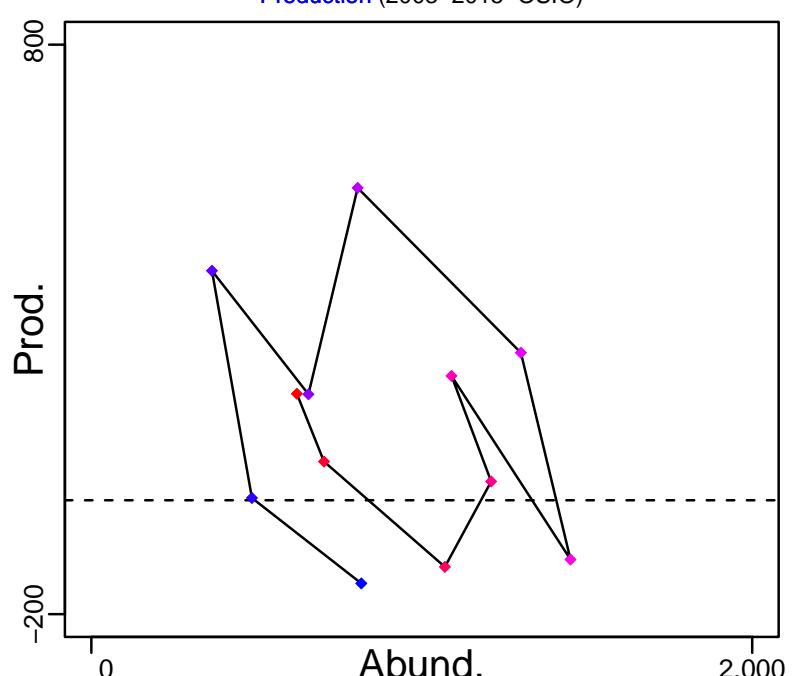
Kobe MGTpref (2003–2015–OSIO)



Spawner Recruit (2003–2015–OSIO)



Production (2003–2015–OSIO)

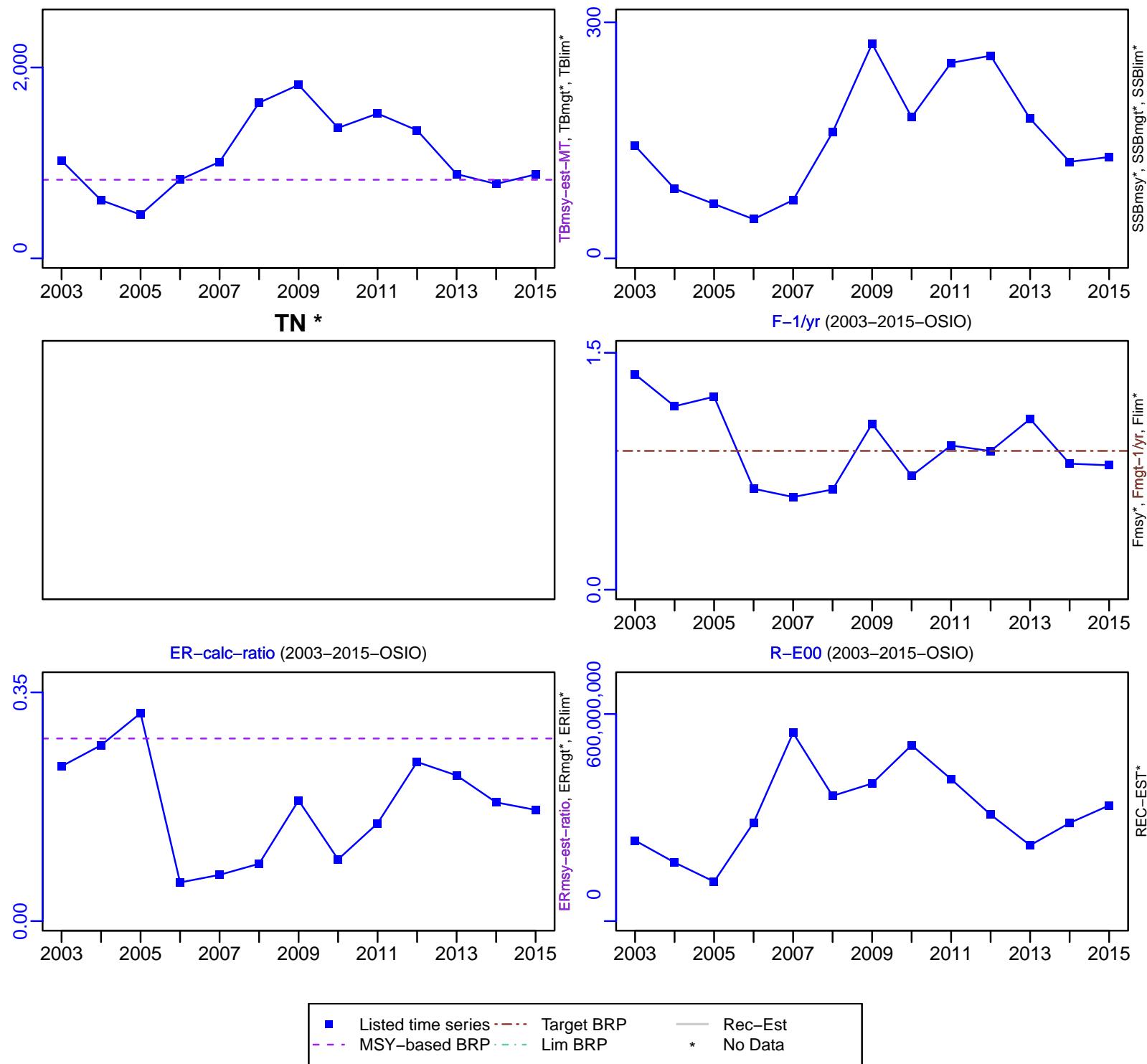


◆ Start Year ◆ End Year * No Data

Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TB-MT (2003–2015–OSIO)

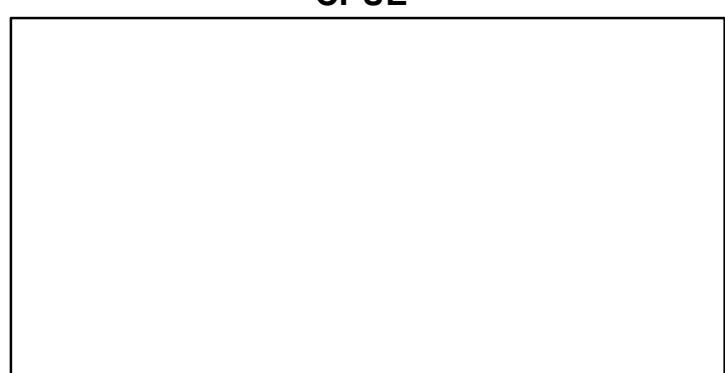
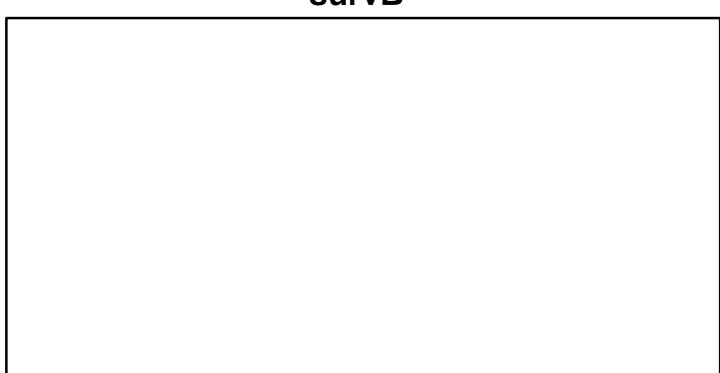
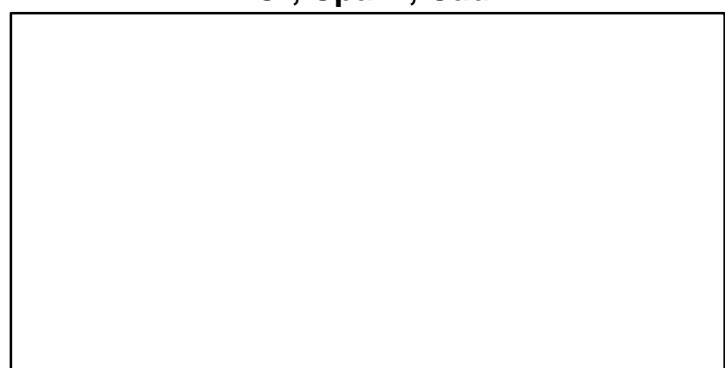
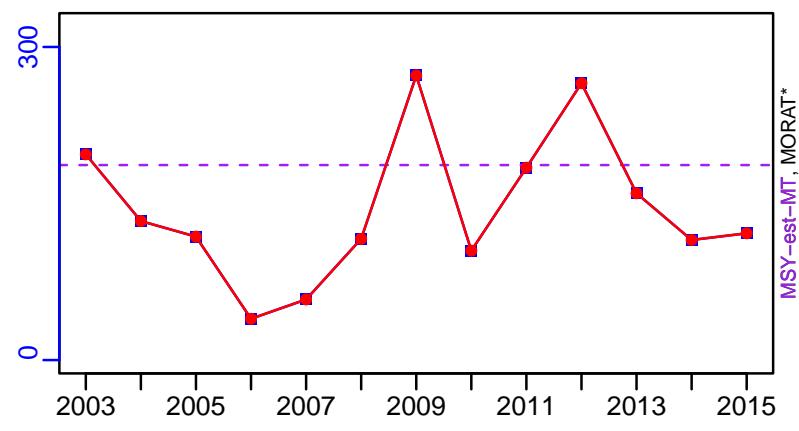
SSB-MT (2003–2015–OSIO)



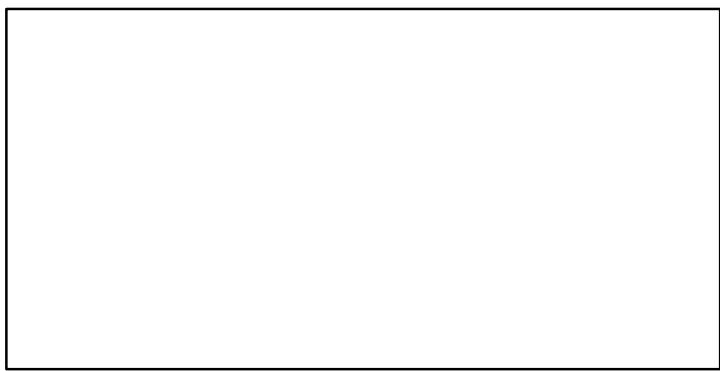
Deep water rose shrimp Northern Alboran Sea [RSHRMPMEDGSA1]

TC-MT, TL-MT, RecC* (2003–2015–OSIO)

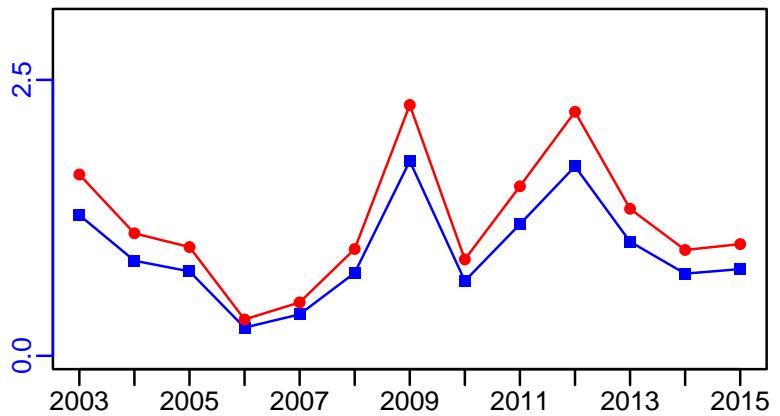
TAC*, Cpair*, Cadv*



EFFORT*



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



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

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

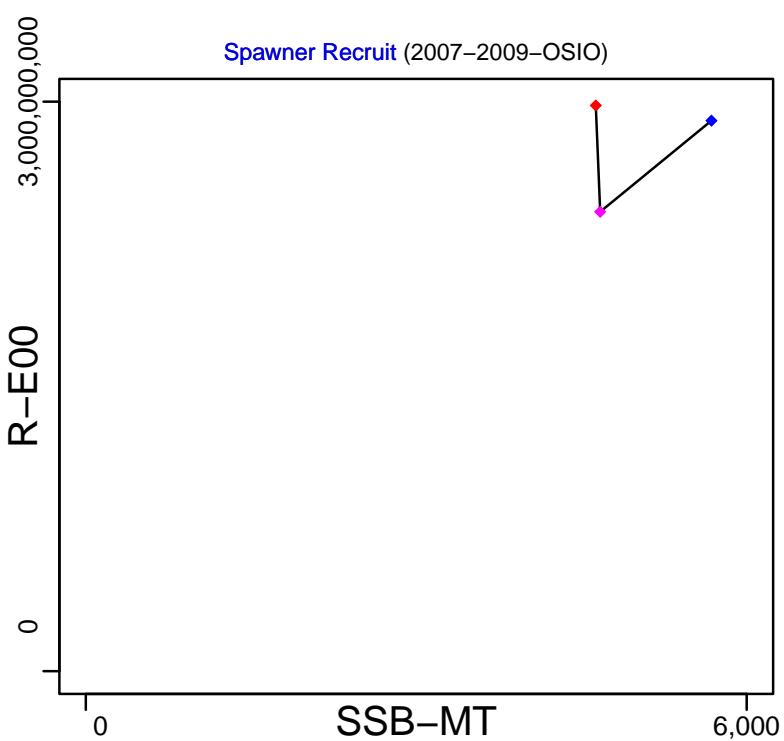
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-extr-1/yr	2011	1.21
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2009	0.9
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2011	1.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-	-	-	
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)

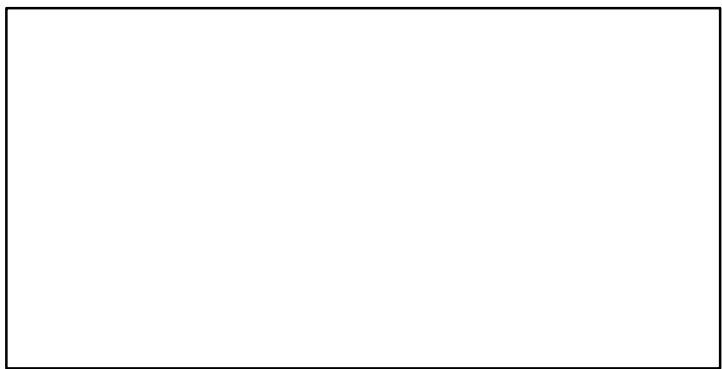


Production*

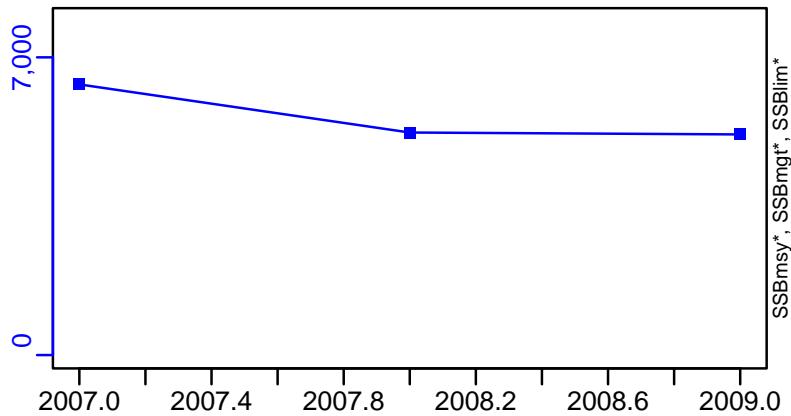
◆ Start Year ◆ End Year * No Data

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

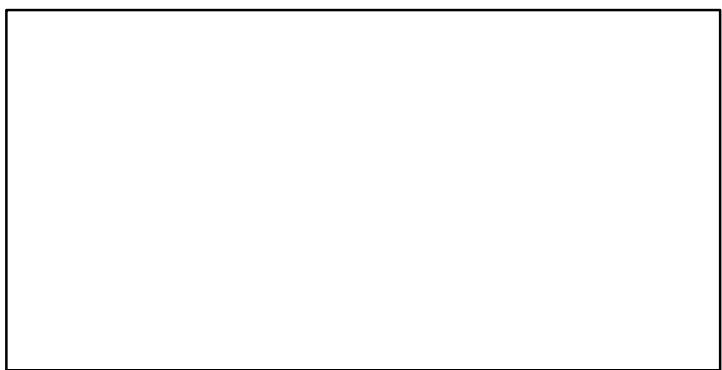
TB*



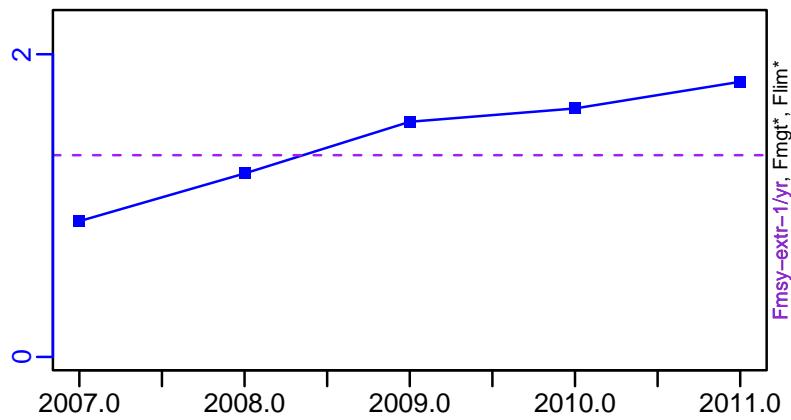
SSB-MT (2007–2009–OSIO)



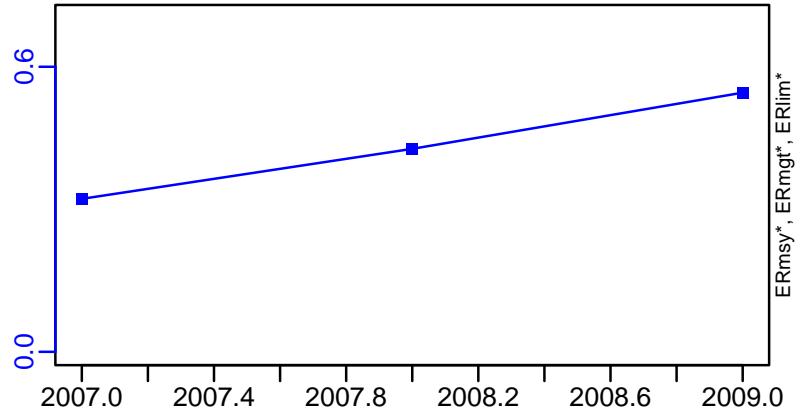
TN *



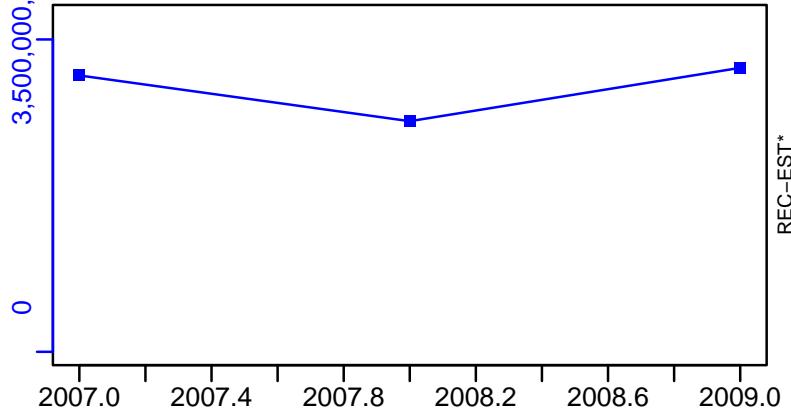
F-1/yr (2007–2011–BANOBI)



ER-calc-ratio (2007–2009–OSIO)



R-E00 (2007–2009–OSIO)

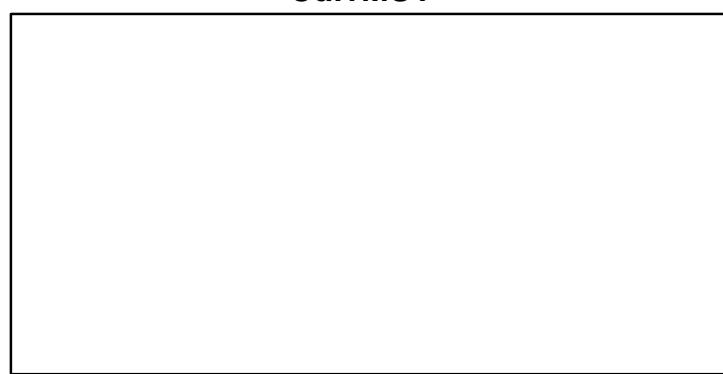
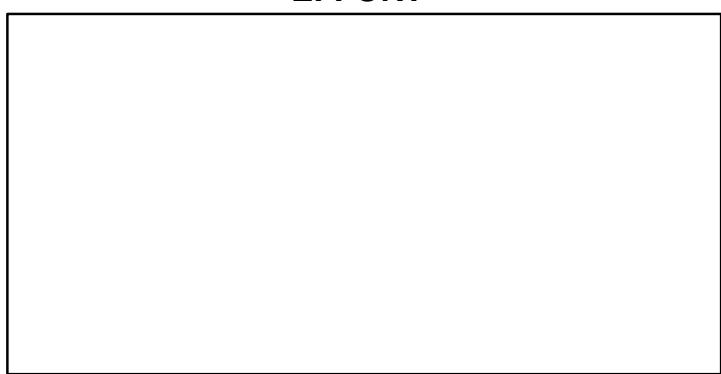
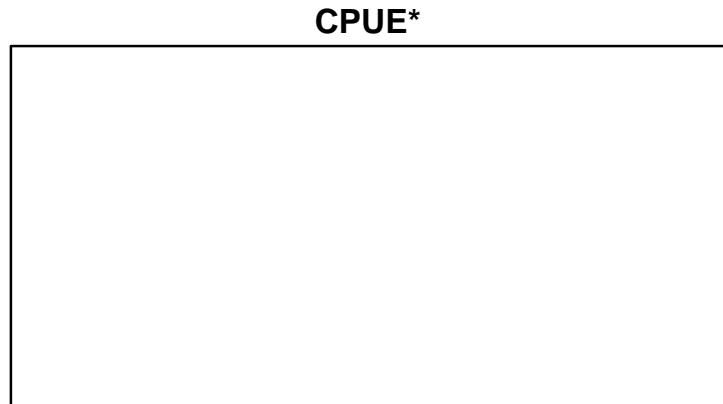
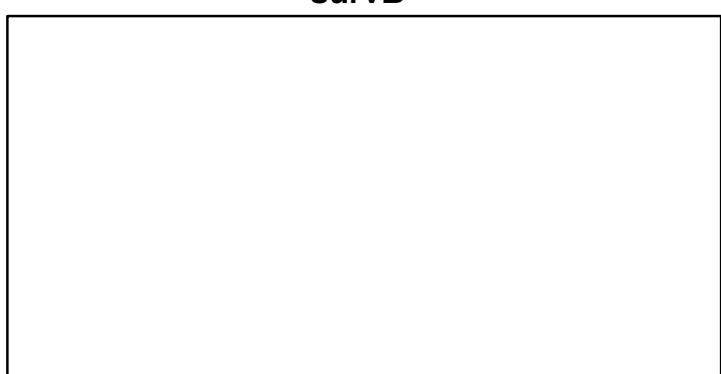
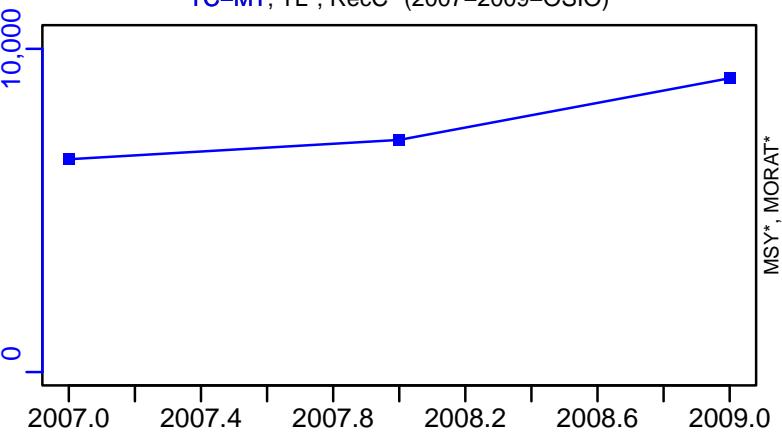


- Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - - Lim BRP * No Data

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

TC-MT, TL*, RecC* (2007–2009–OSIO)

TAC*, Cpair*, Cadv*



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

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

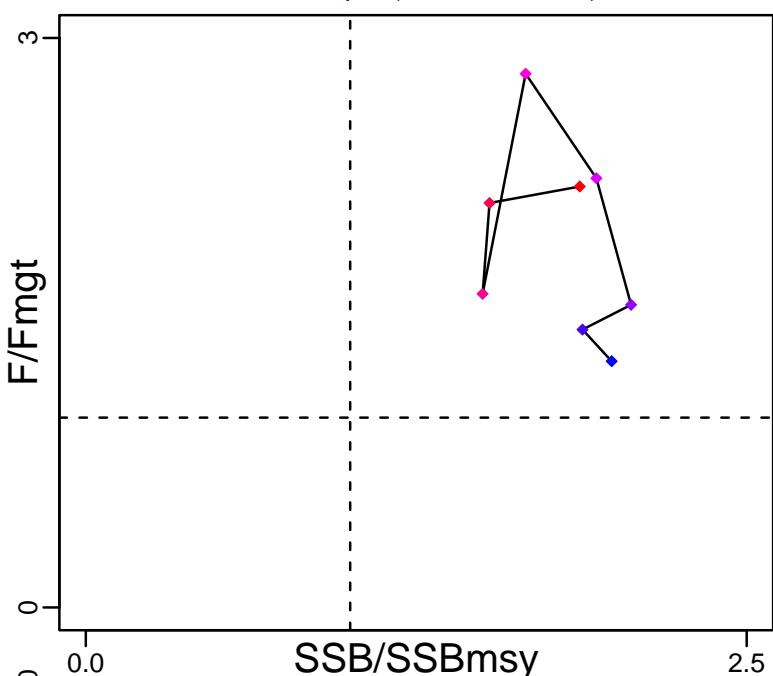
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-RSHRMPMEDGSA17-19-2002-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 17-19
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2019, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.505
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

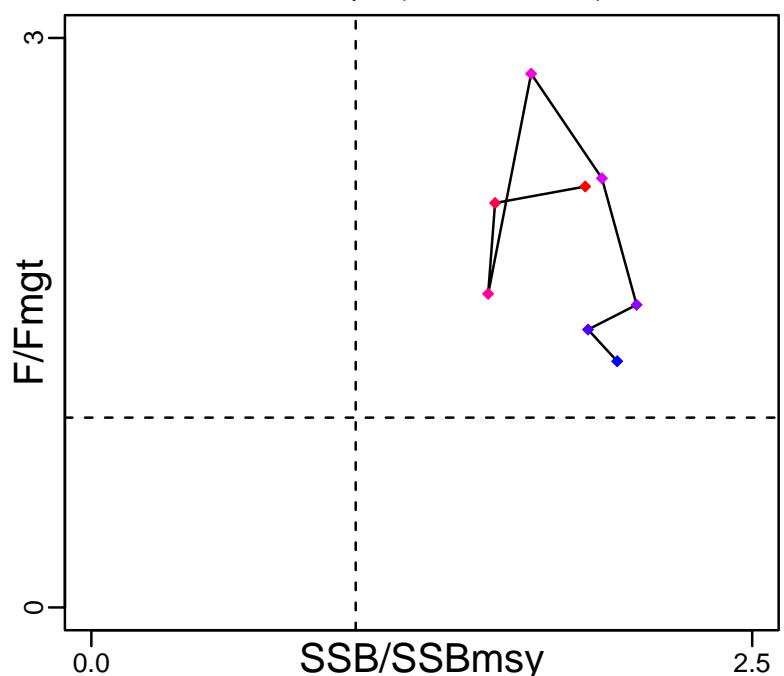
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	3221	-	-
TN	-	-	-	-	-
R	R-E00	2019	7,490,295,088	-	-
F	F-1/yr	2019	1.488	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	5993		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	2.949		
ER/ERmgt	-	-	-		

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

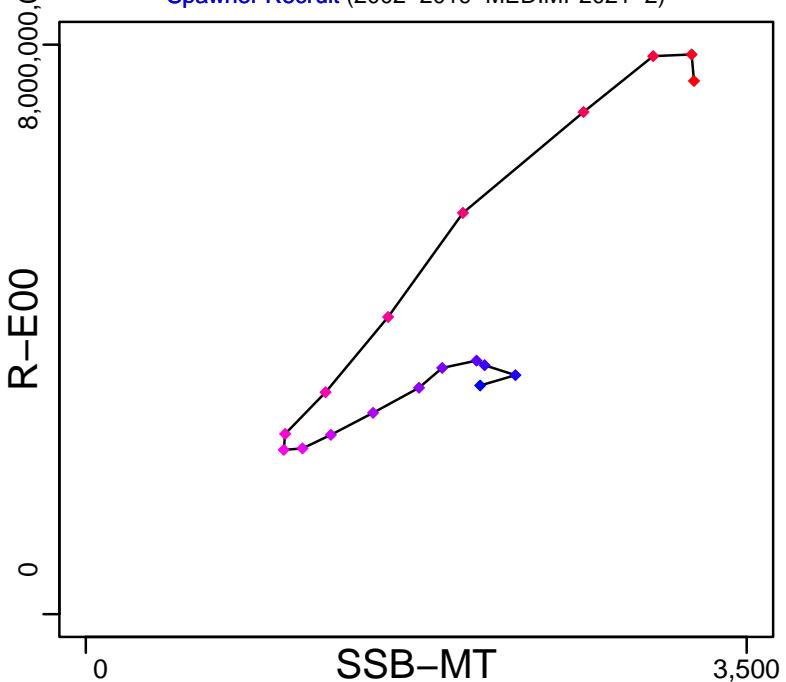
Kobe MSYpref (2007–2014–OSIO)



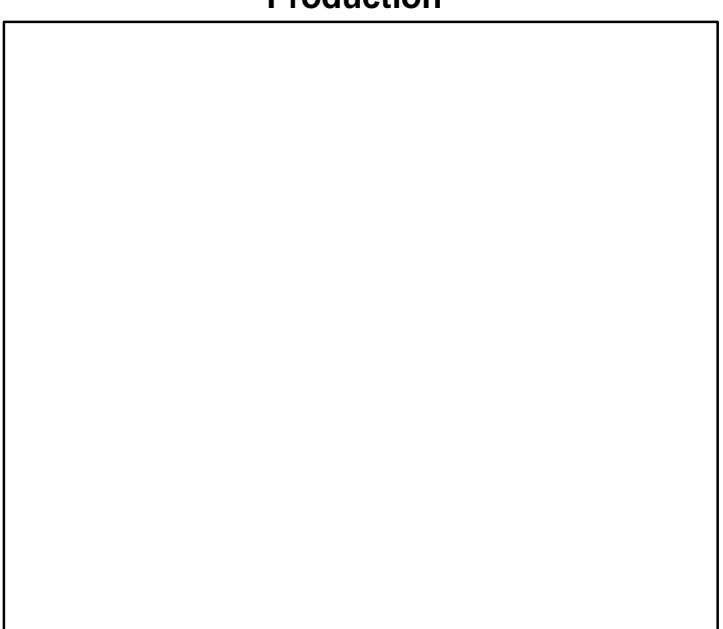
Kobe MGTpref (2007–2014–OSIO)



Spawner Recruit (2002–2019–MEDIMP2021–2)



Production*



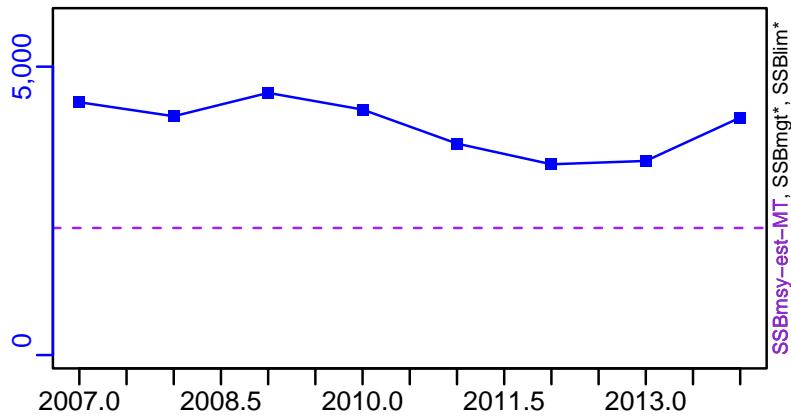
◆ Start Year ◆ End Year * No Data

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

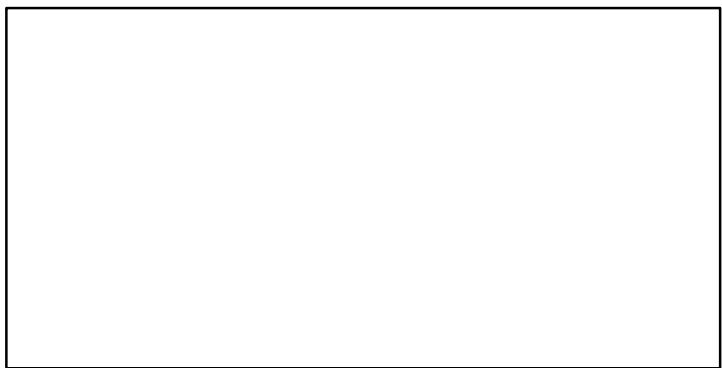
TB*



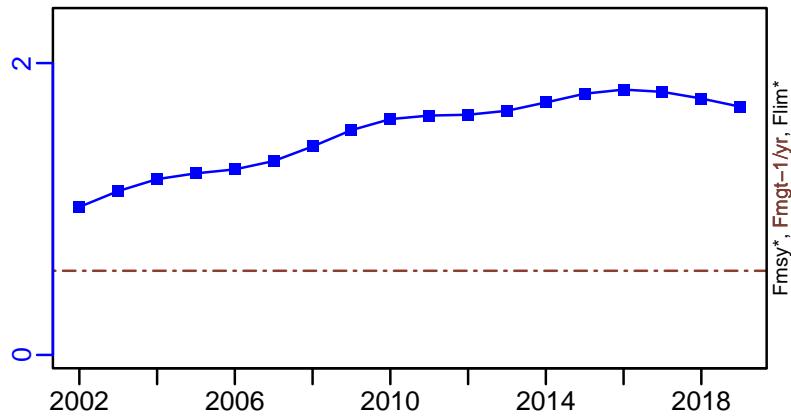
SSB-MT (2007–2014–OSIO)



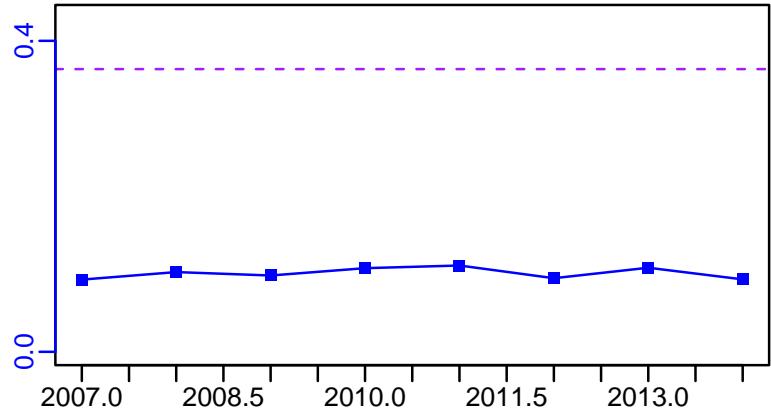
TN *



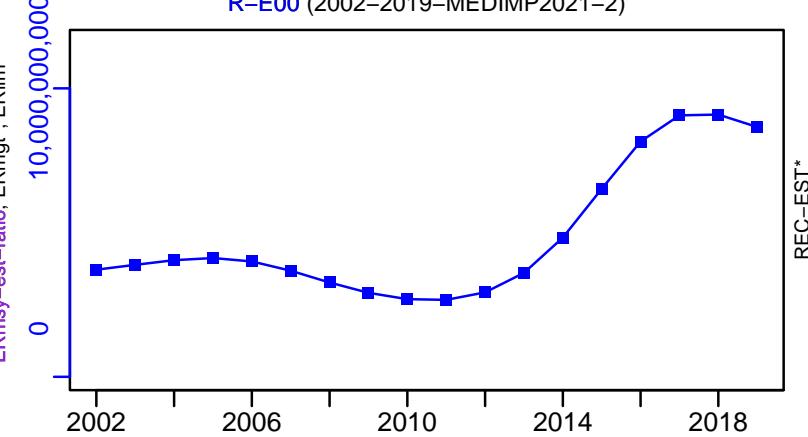
F-1/yr (2002–2019–MEDIMP2021–2)



ER-calc-ratio (2007–2014–OSIO)



R-E00 (2002–2019–MEDIMP2021–2)

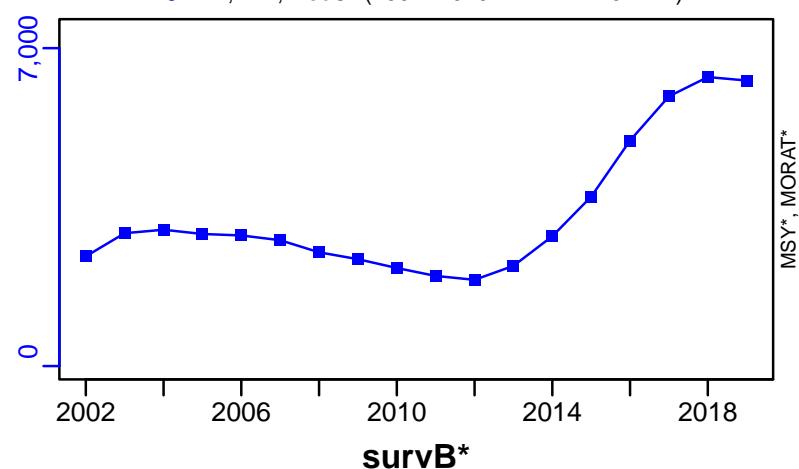


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - - Lim BRP	* No Data

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

TC–MT, TL*, RecC* (2002–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



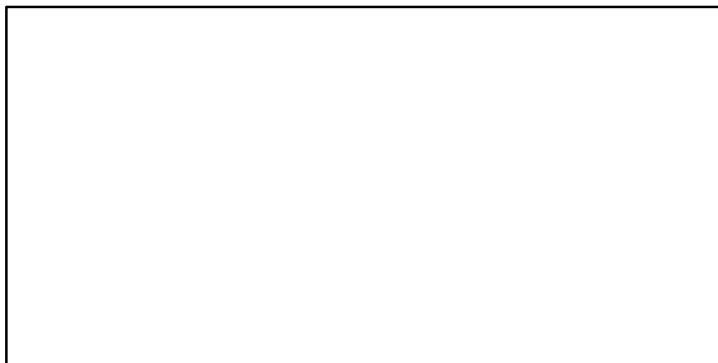
survB*



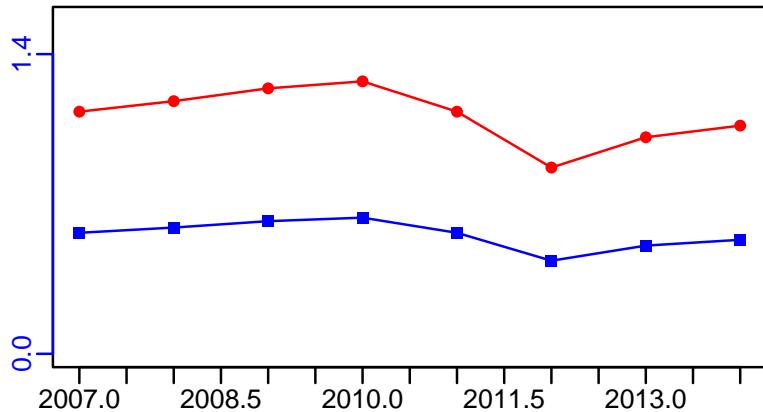
CPUE*



EFFORT*



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



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

Deep water rose shrimp Aegean Sea and Crete Island (GSA 22,23)
[RSHRMPMEDGSA22-23]

Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-RSHRMPMEDGSA22-23-1990-2006-MEDIMP2021-2
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	2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2006	2363		
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*

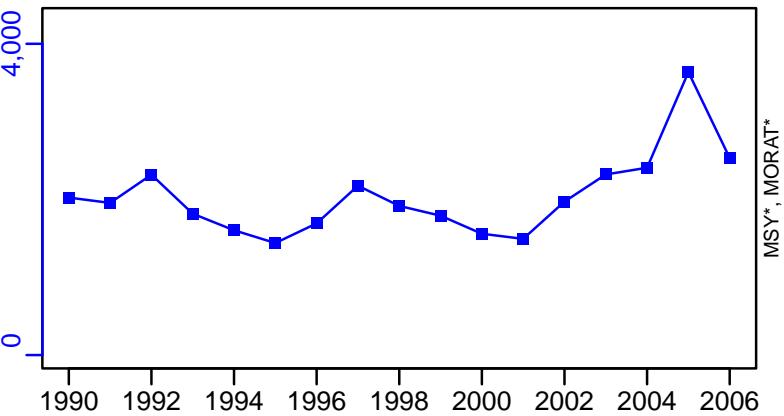


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Deep water rose shrimp Aegean Sea and Crete Island (GSA 22,23) [RSHRMPMEDGSA22–23]

TC–MT, TL*, RecC* (1990–2006–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



survB*

CPUE*

EFFORT*

CdivMSY*

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

Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

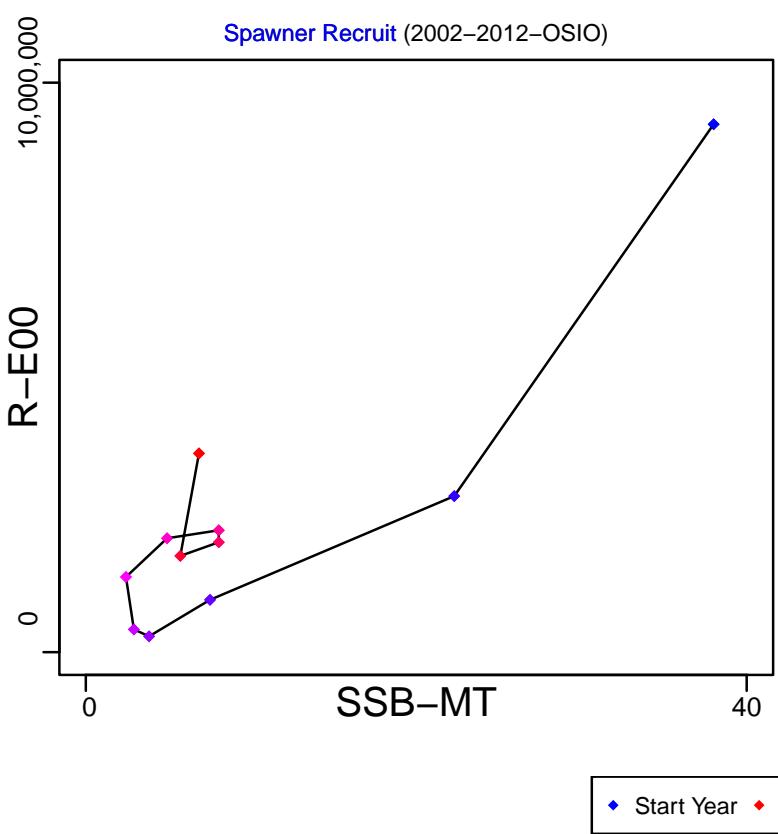
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-RSHRMPMEDGSA5-2002-2012-OSIO
Area	Balearic Island
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in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

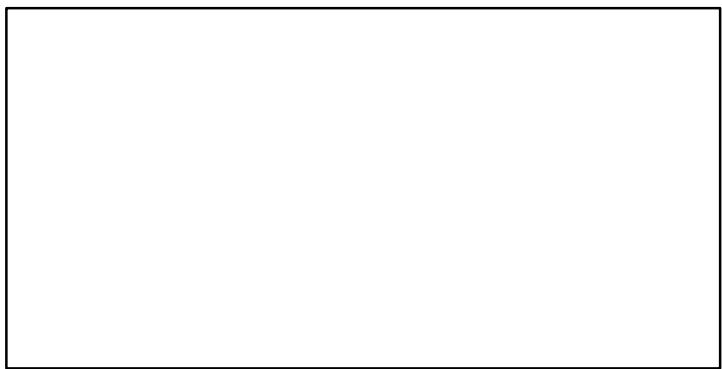
Kobe MSY*

Kobe MGT*

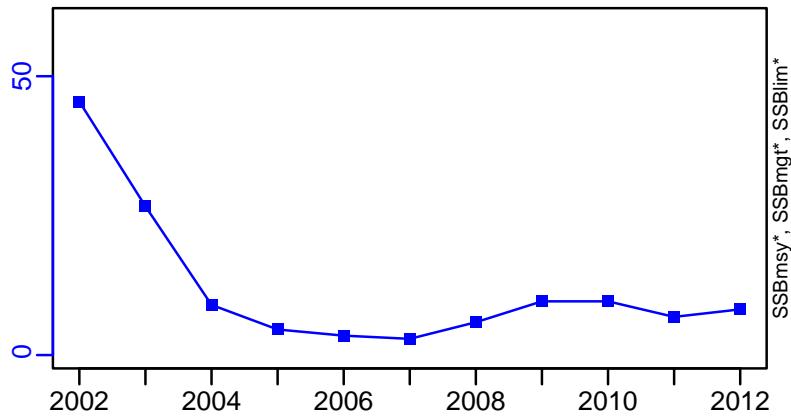


Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

TB*



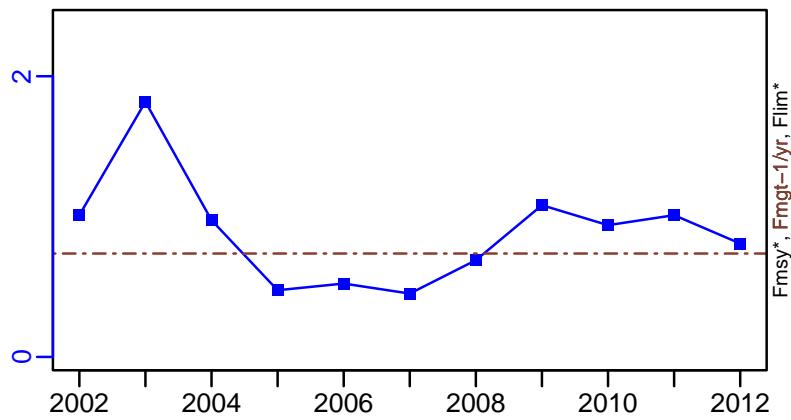
SSB-MT (2002–2012–OSIO)



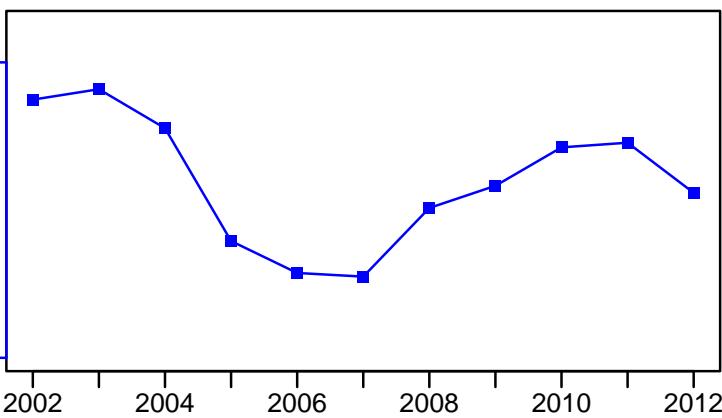
TN *



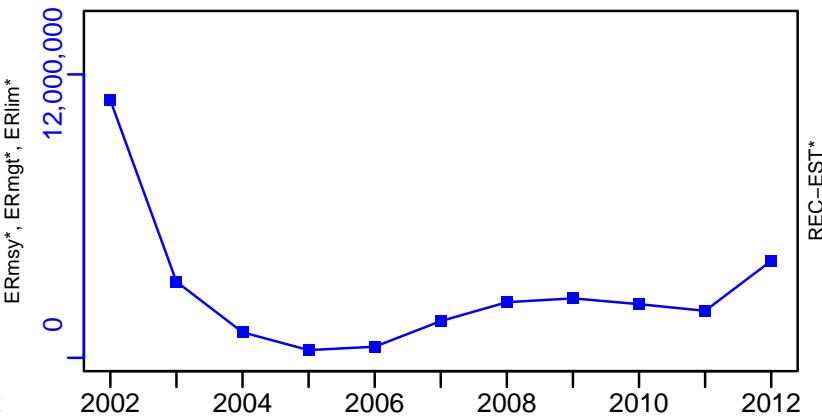
F-1/yr (2002–2012–OSIO)



ER-calc-ratio (2002–2012–OSIO)



R-E00 (2002–2012–OSIO)

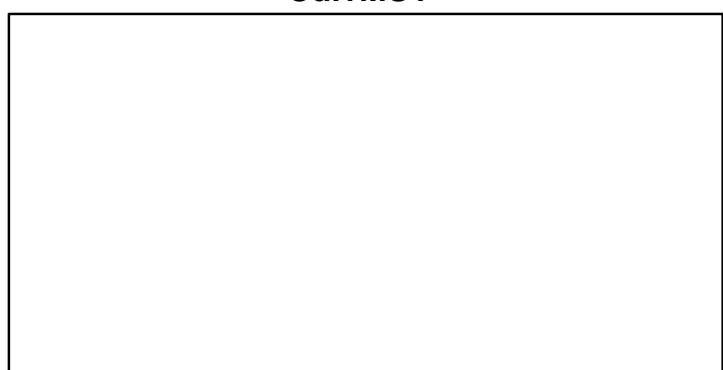
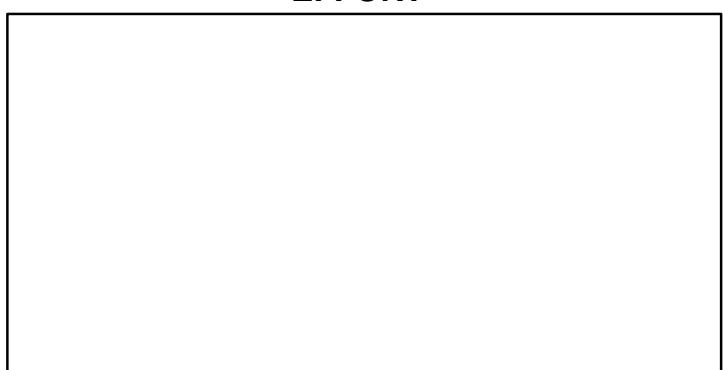
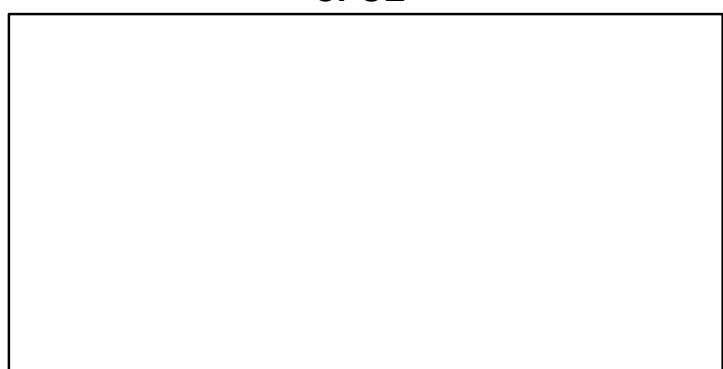
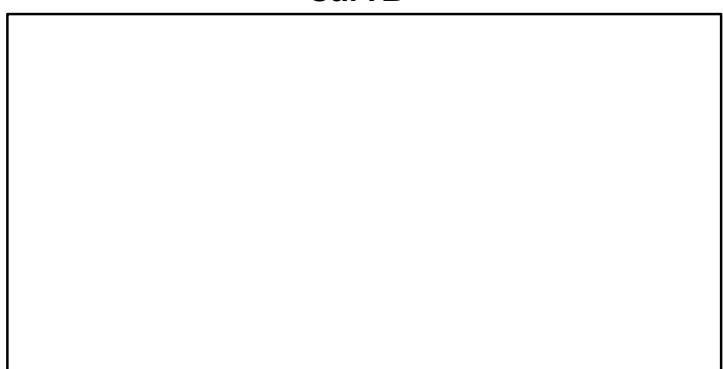
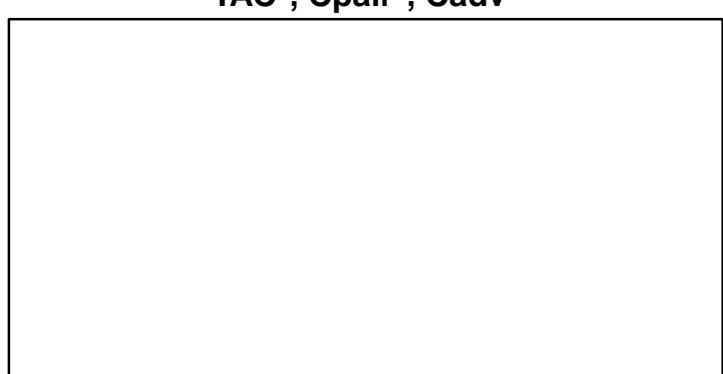
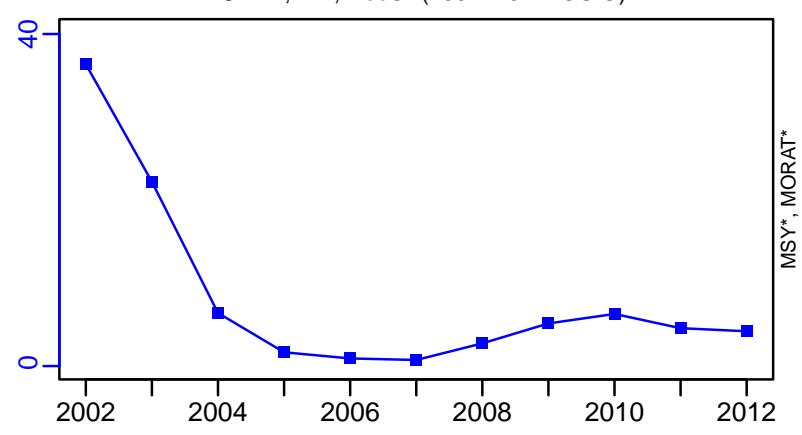


- Listed time series - - - Target BRP — Rec-Est
- - MSY-based BRP - - Lim BRP * No Data

Deep water rose shrimp Balearic Island [RSHRMPMEDGSA5]

TC-MT, TL*, RecC* (2002–2012–OSIO)

TAC*, Cpair*, Cadv*



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

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

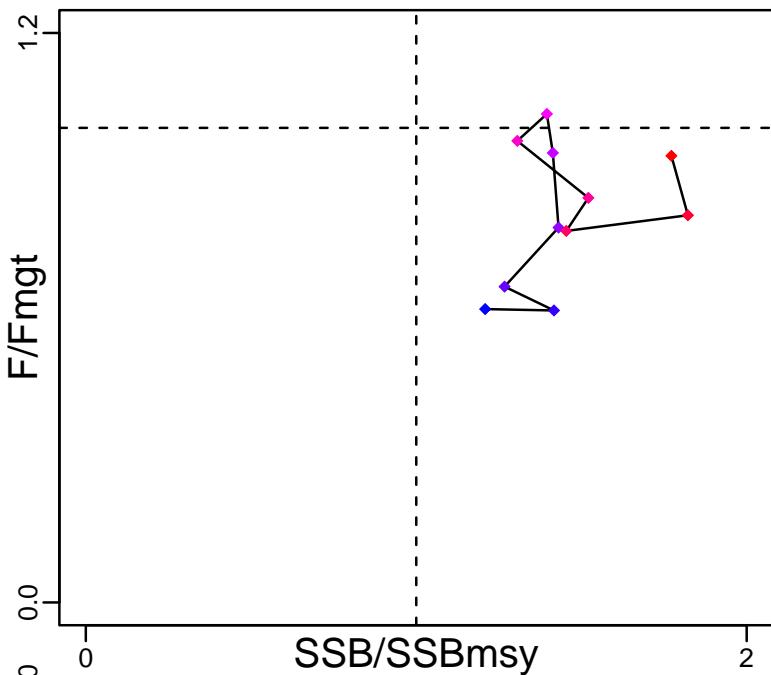
Metadata	
Scientific Name	Parapenaeus longirostris
Current Assess ID	STECF-RSHRMPMEDGSA9-11-2009-2019-MEDIMP2021-2
Area	Geographical Sub-Areas 9-11
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2015, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	1.09
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

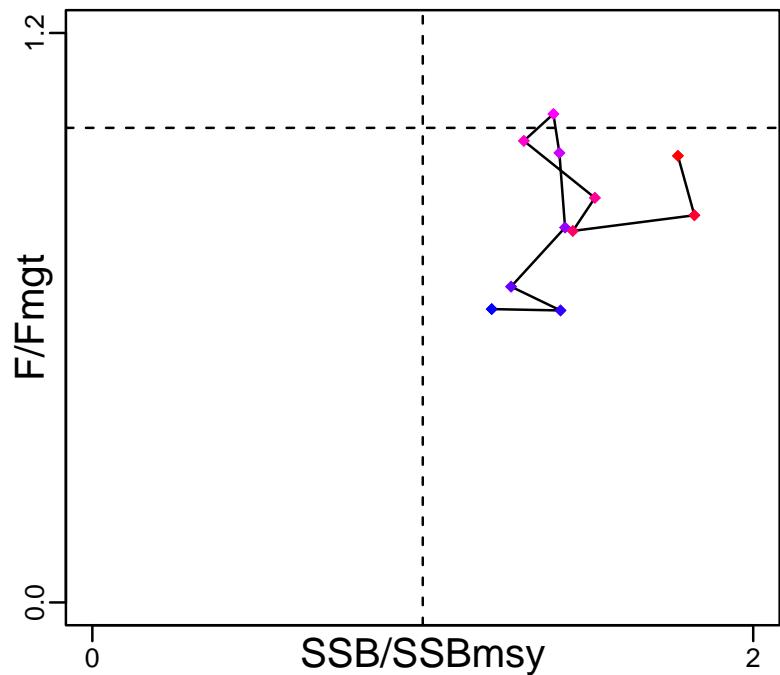
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	5390	-	-
SSB	SSB-MT	2019	2575	-	-
TN	-	-	-	-	-
R	R-E00	2019	4,302,305,361	-	-
F	F-1/yr	2019	1.025	-	-
ER	ER-calc-ratio	2015	0.286	-	-
TC	TC-MT	2019	1606		
TL	TL-MT	2015	1540		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.941		
ER/ERmgt	-	-	-		

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

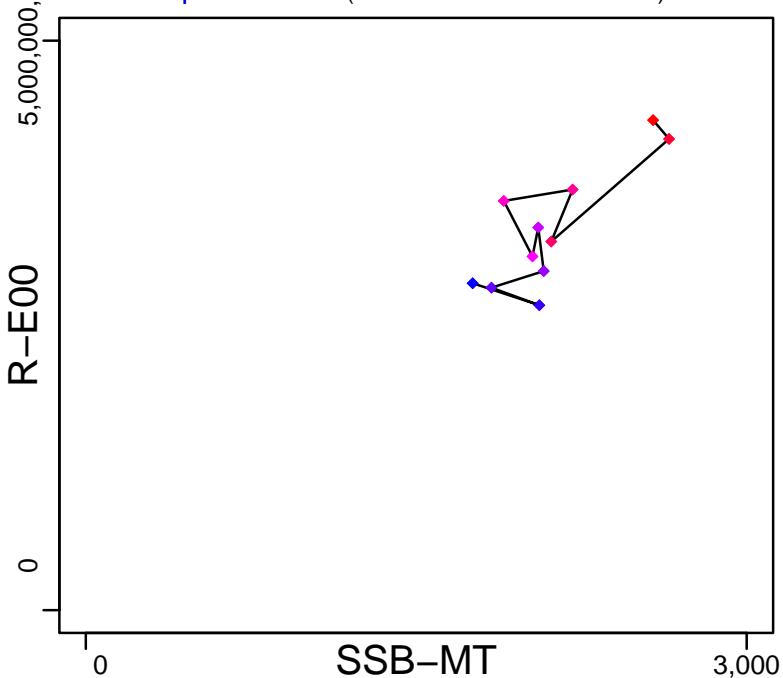
Kobe MSYpref (2009–2019–MEDIMP2021–2)



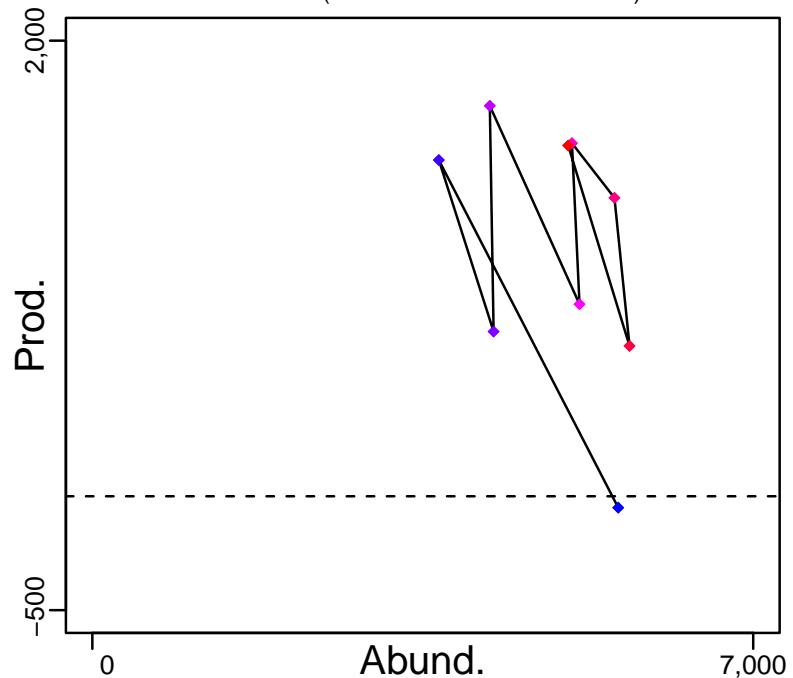
Kobe MGTpref (2009–2019–MEDIMP2021–2)



Spawner Recruit (2009–2019–MEDIMP2021–2)



Production (2009–2019–MEDIMP2021–2)

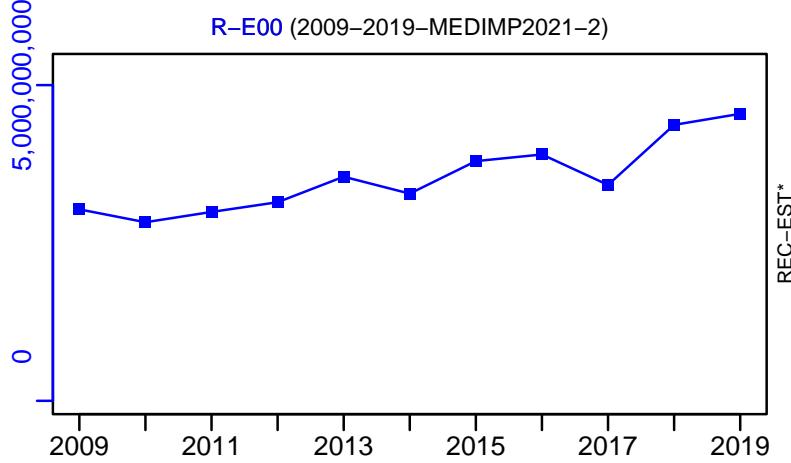
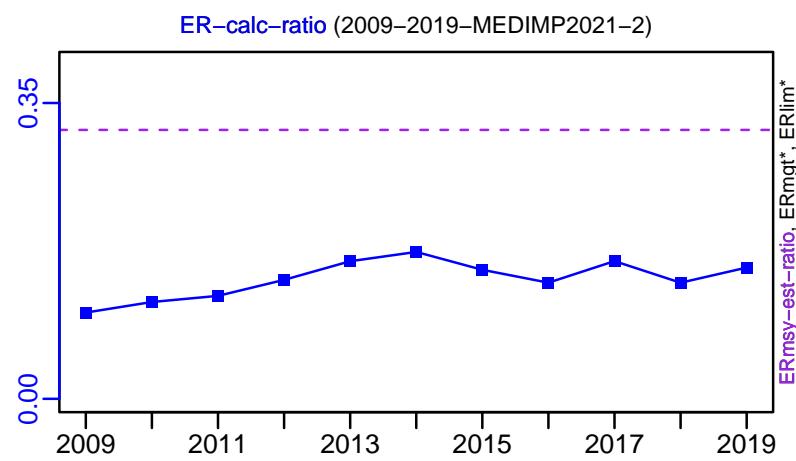
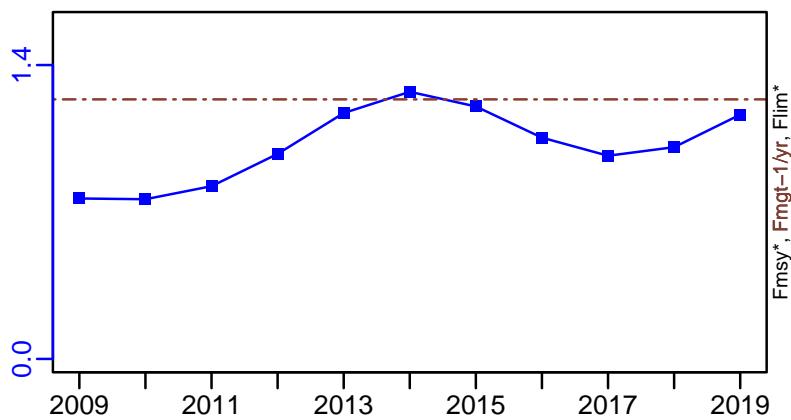
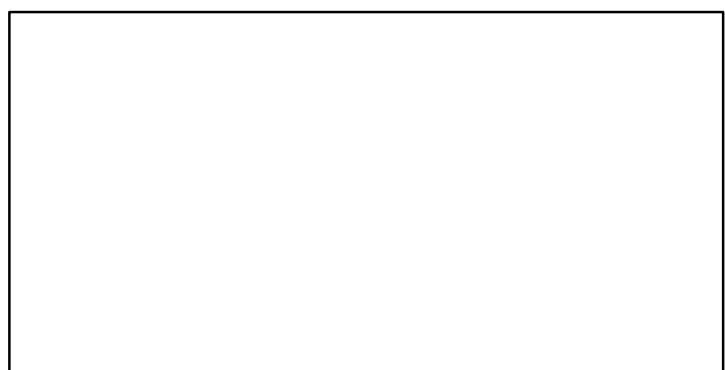
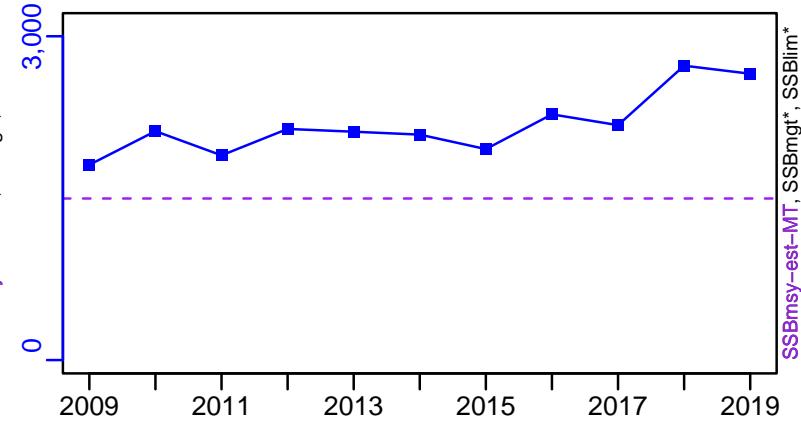
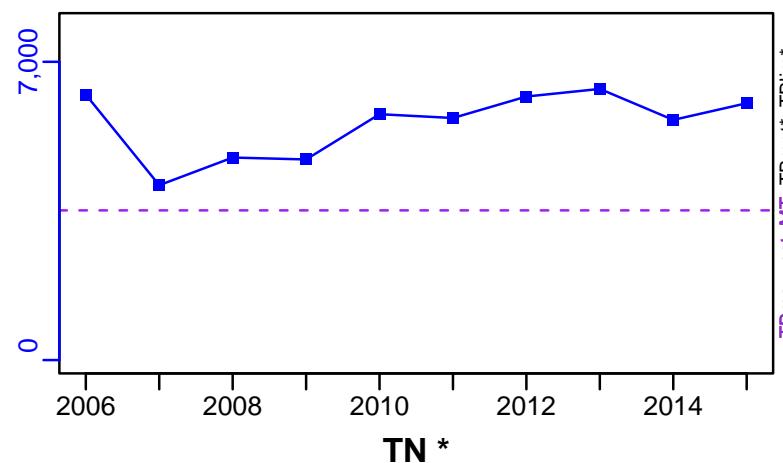


◆ Start Year ◆ End Year * No Data

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

TB-MT (2006–2015–OSIO)

SSB-MT (2009–2019–MEDIMP2021–2)

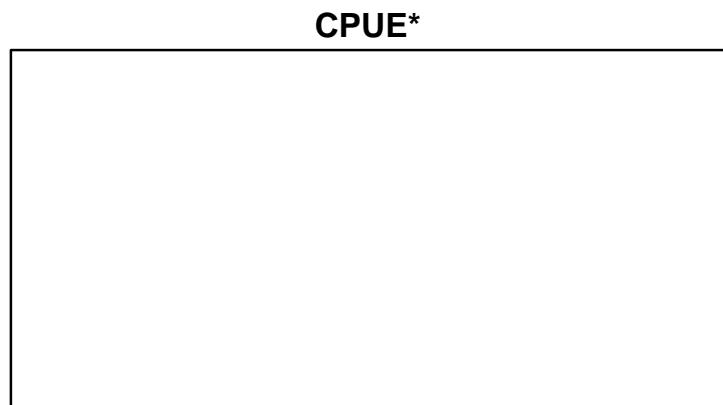
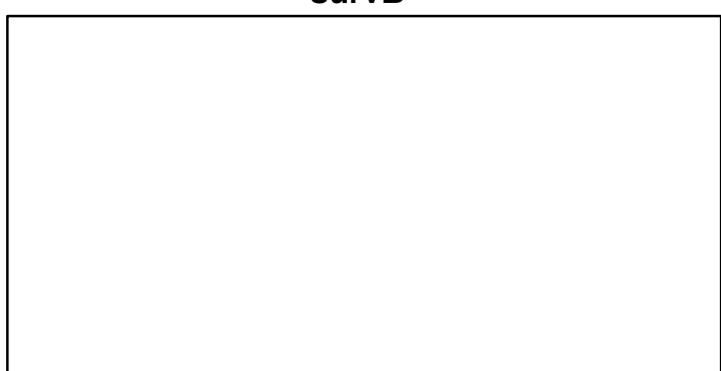
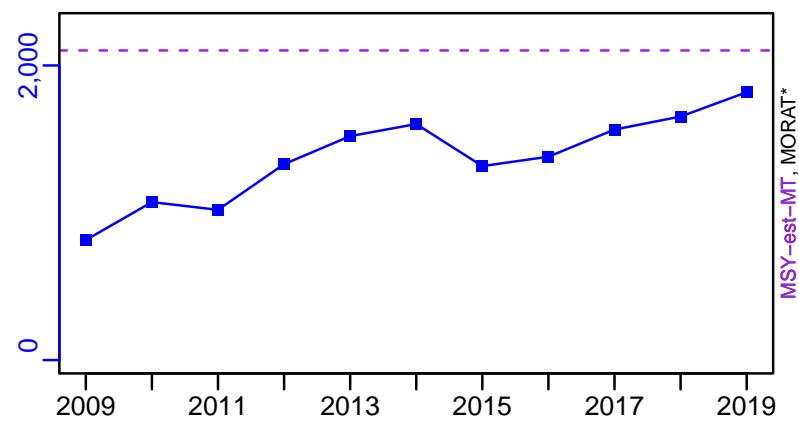


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - Lim BRP	* No Data

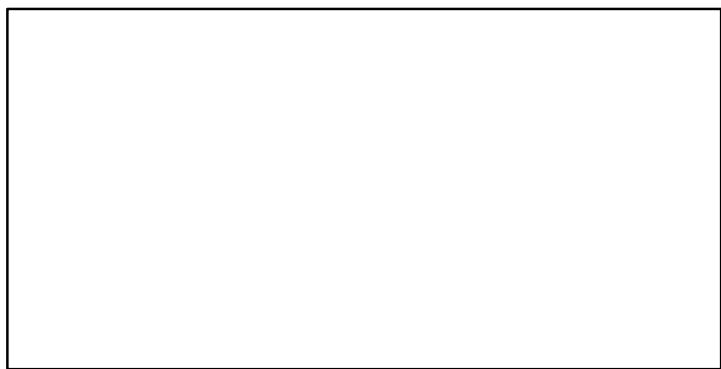
Deep water rose shrimp Geographical Sub-Areas 9–11 [RSHRMPMEDGSA9–11]

TC–MT, TL*, RecC* (2009–2019–MEDIMP2021–2)

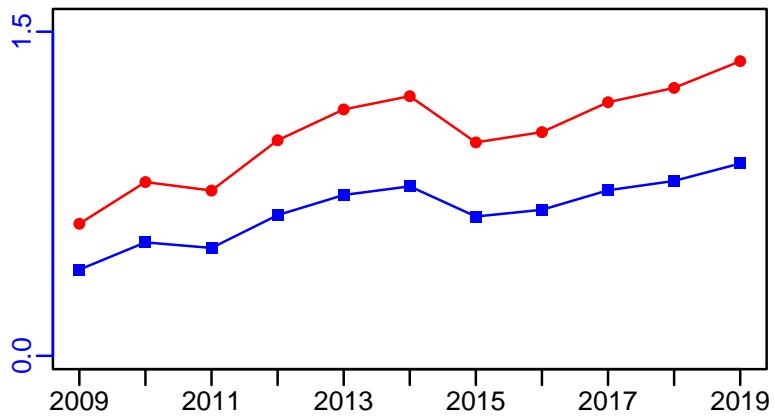
TAC*, Cpair*, Cadv*



EFFORT*



TC–MT/MSY–est–MT, CdivMEANC–ratio, (2009–2019–MEDIMP2021–2)



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

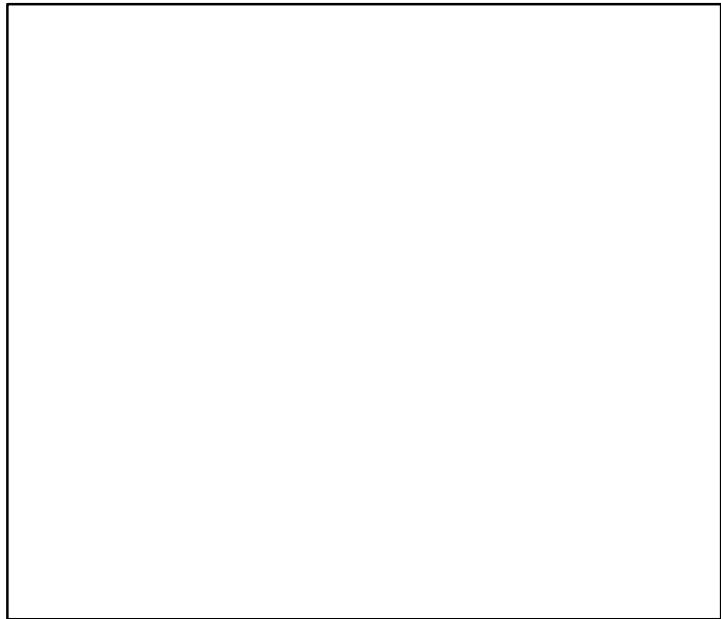
Shako Ise and Mikawa Bay [SHAKOIMKB]

Metadata	
Scientific Name	Oratosquilla oratoria
Current Assess ID	FAFRFJ-SHAKOIMKB-1970-2013-JPNIMP2016
Area	Ise and Mikawa Bay
Management Authority	Fisheries Agency of Japan
Assessor	Fisheries Agency and Fisheries Research Agency of Japan
Asmts in RAM	2013

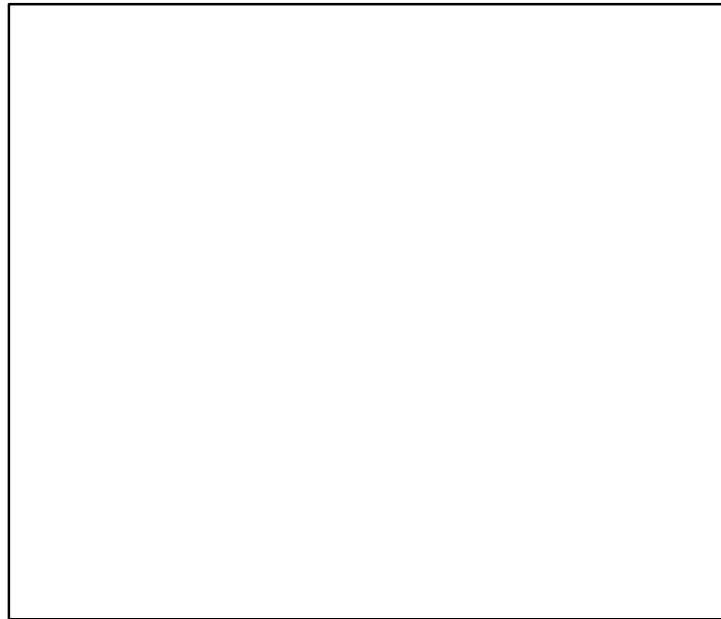
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	282		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

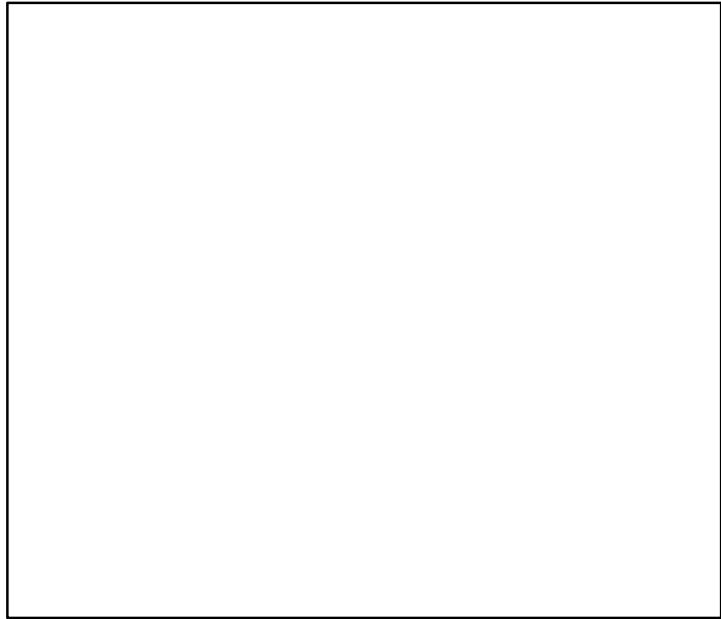
Kobe MSY*



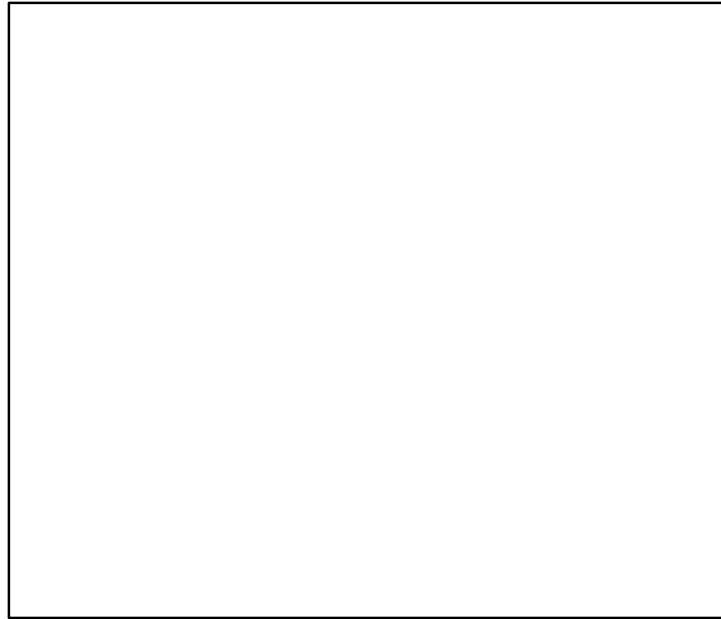
Kobe MGT*



Spawner Recruit*



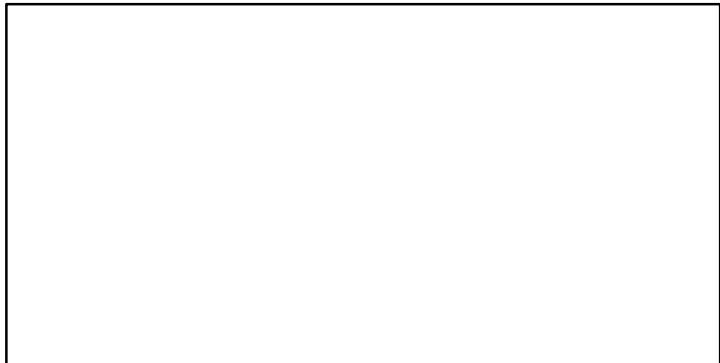
Production*



◆ Start Year ♦ End Year * No Data

Shako Ise and Mikawa Bay [SHAKOIMKB]

TB*



SSB*



TN *



F*



ER*



Recruits*

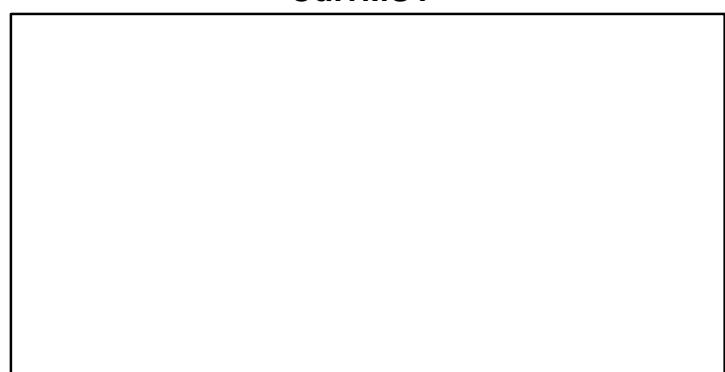
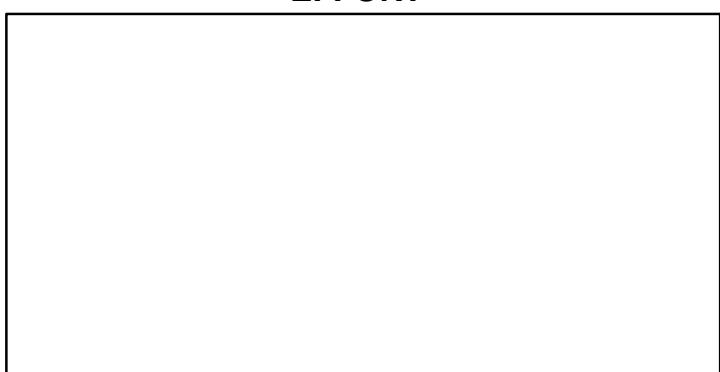
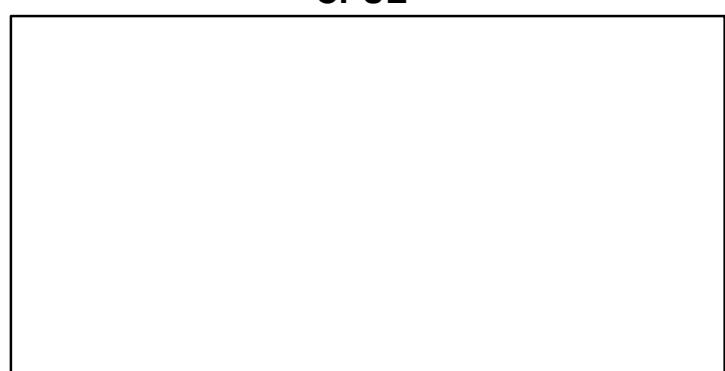
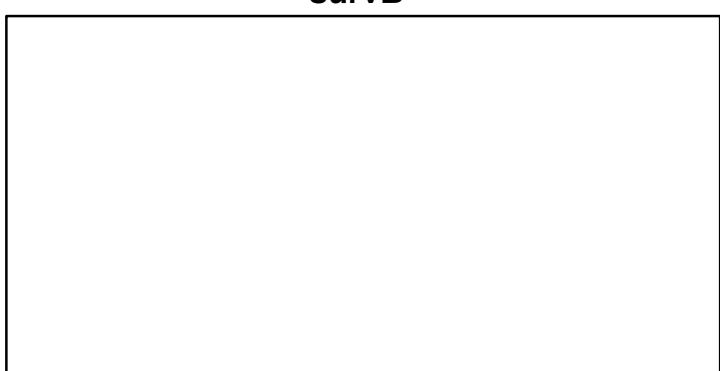
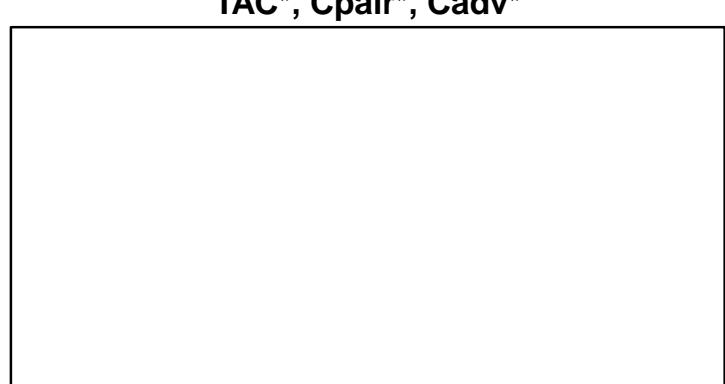
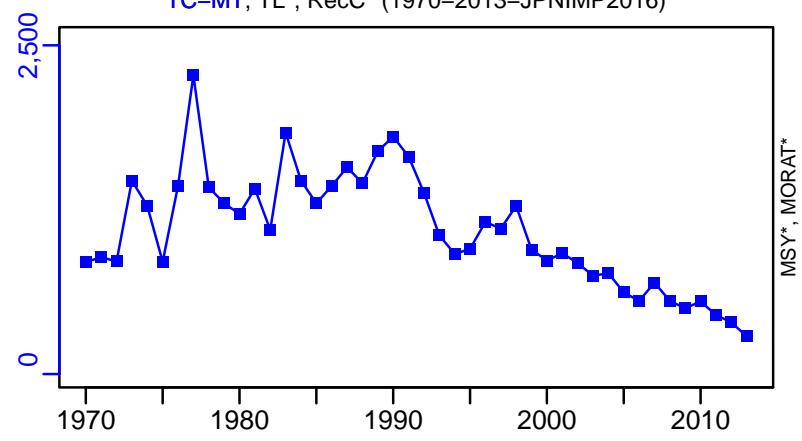


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Shako Ise and Mikawa Bay [SHAKOIMKB]

TC-MT, TL*, RecC* (1970–2013–JPNIMP2016)

TAC*, Cpair*, Cadv*



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

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*

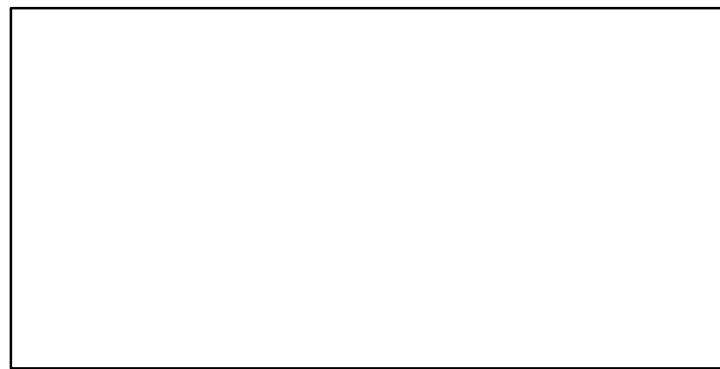
◆ Start Year ♦ End Year * No Data

Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

TB*



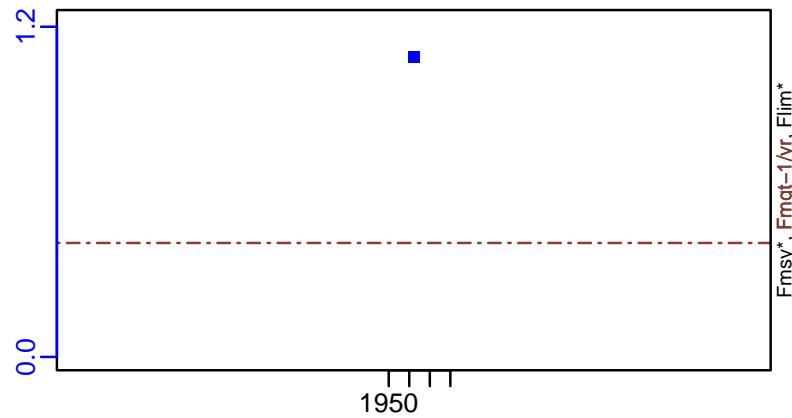
SSB*



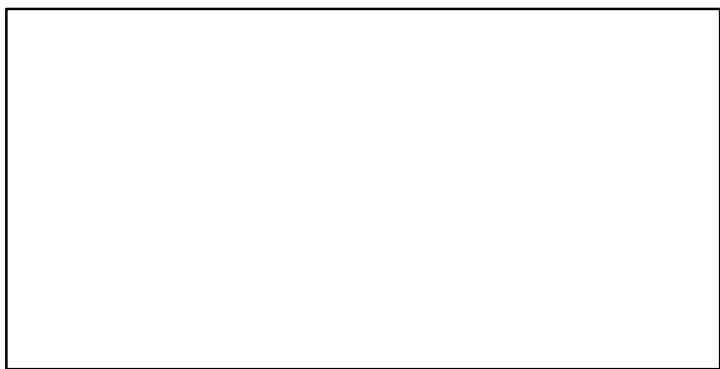
TN *



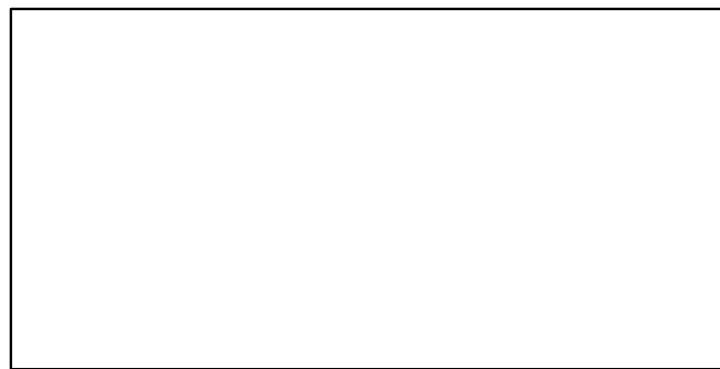
F-1/yr (2011–2011–OSIO)



ER*



Recruits*

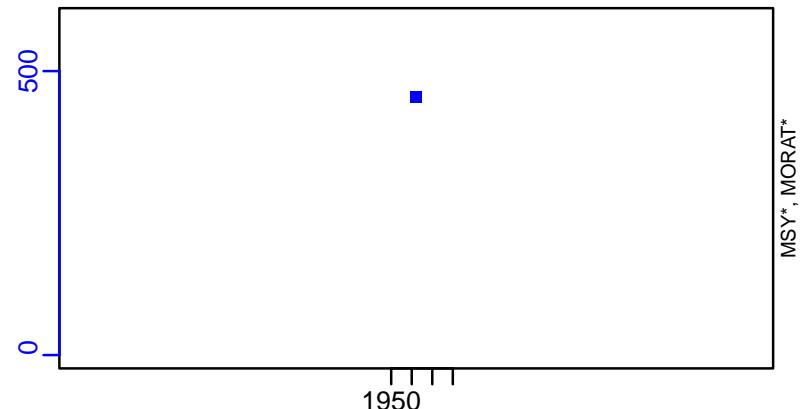


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| — MSY-based BRP | — Lim BRP | * No Data |

Spottail mantis shrimp South Tyrrhenian Sea [SMSHRMPMEDGSA10]

TC-MT, TL*, RecC* (2011–2011–OSIO)

TAC*, Cpair*, Cadv*



MSY*, MORAT*

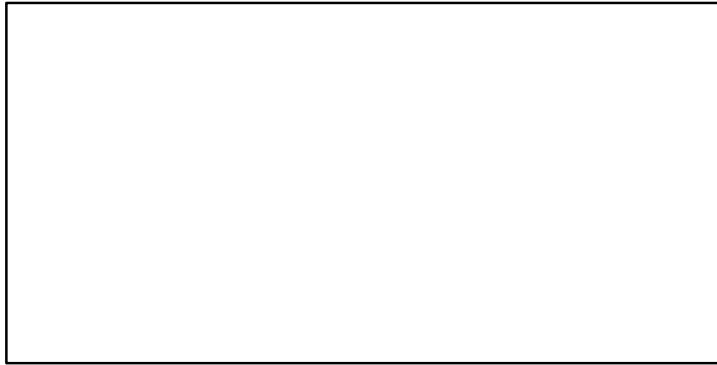
survB*



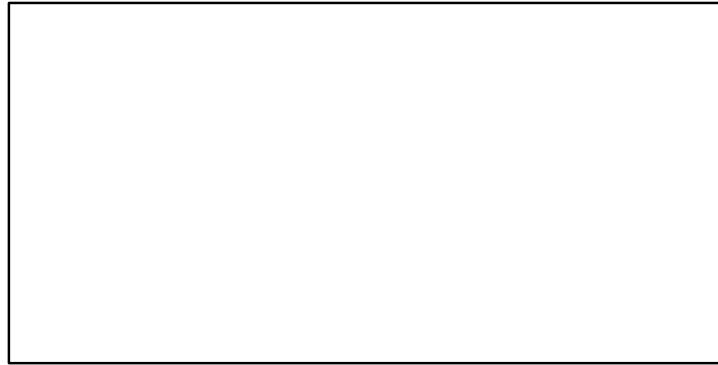
CPUE*



EFFORT*



CdivMSY*



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

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

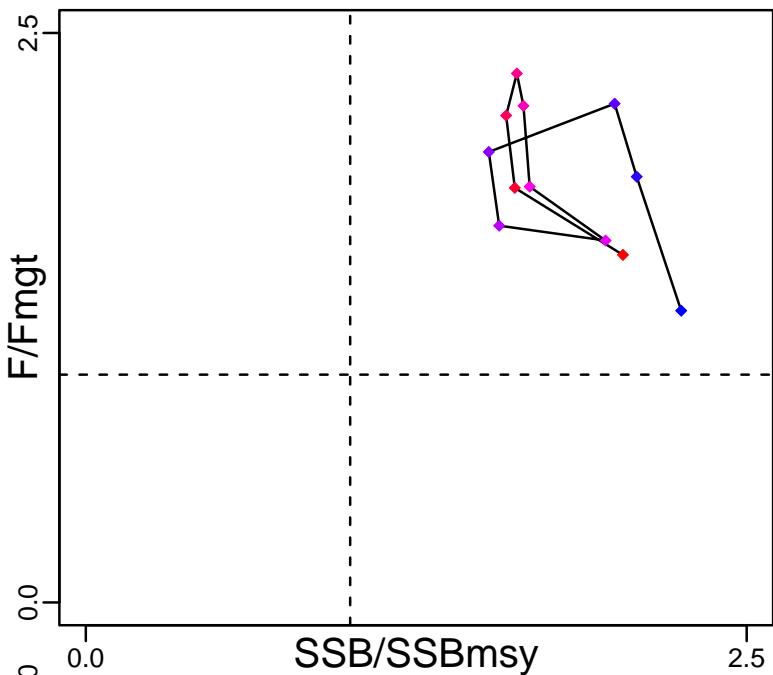
Metadata	
Scientific Name	Squilla mantis
Current Assess ID	STECF-SMSHRMPMEDGSA17-18-2008-2019-MEDIMP2021-2
Area	Adriatic Sea (GSA 17,18)
Management Authority	General Fisheries Council for the Mediterranean, DG MARE, and national states
Assessor	Scientific, Technical and Economic Committee for Fisheries
Asmts in RAM	2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2019	0.449
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

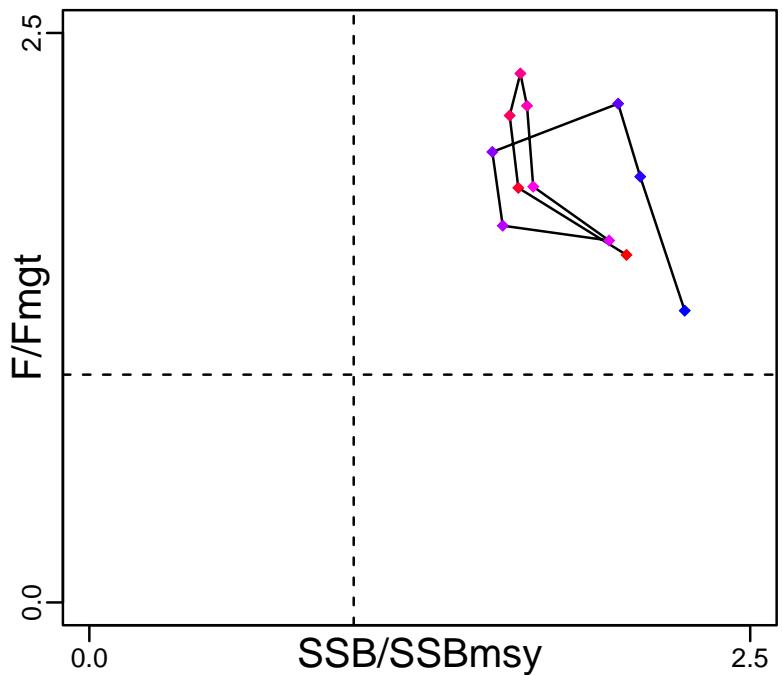
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	14,193	-	-
TN	-	-	-	-	-
R	R-E00	2019	2,901,990,201	-	-
F	F-1/yr	2019	0.686	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	4372		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	1.526		
ER/ERmgt	-	-	-		

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

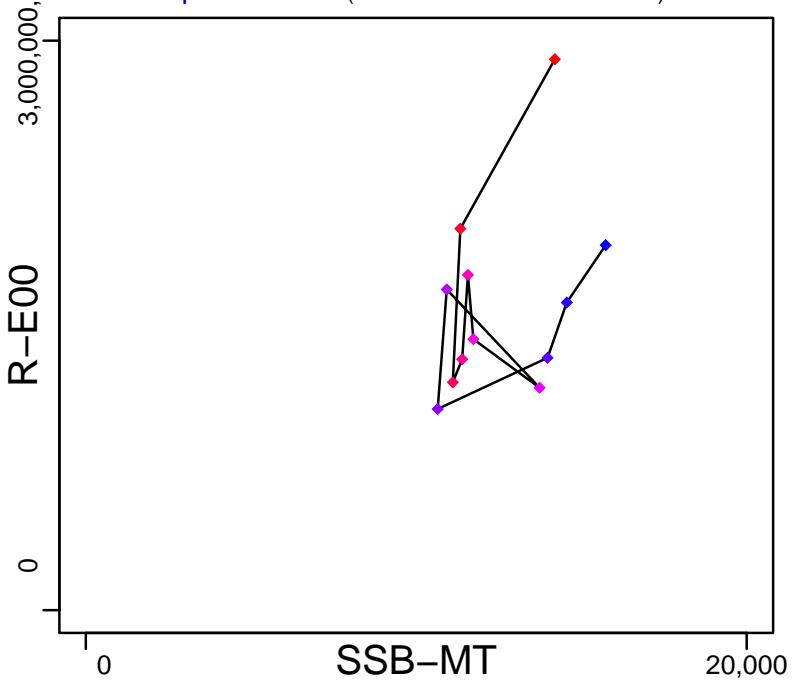
Kobe MSYpref (2008–2019–MEDIMP2021–2)



Kobe MGTpref (2008–2019–MEDIMP2021–2)



Spawner Recruit (2008–2019–MEDIMP2021–2)

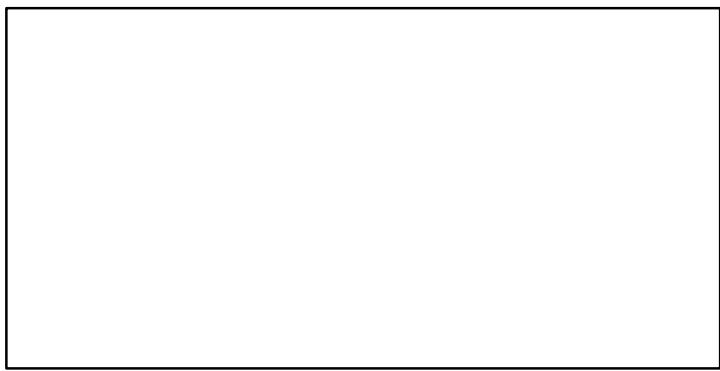


Production*

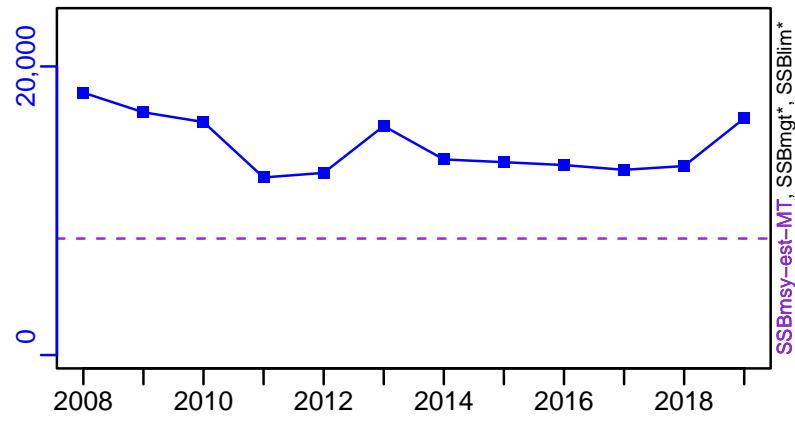
◆ Start Year ◆ End Year * No Data

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

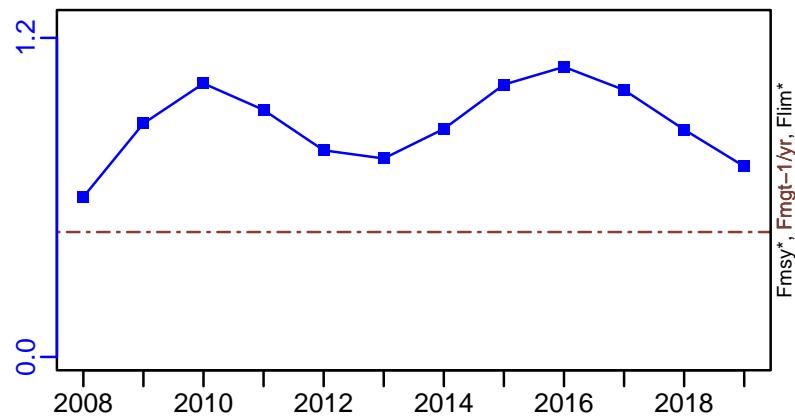
TB*



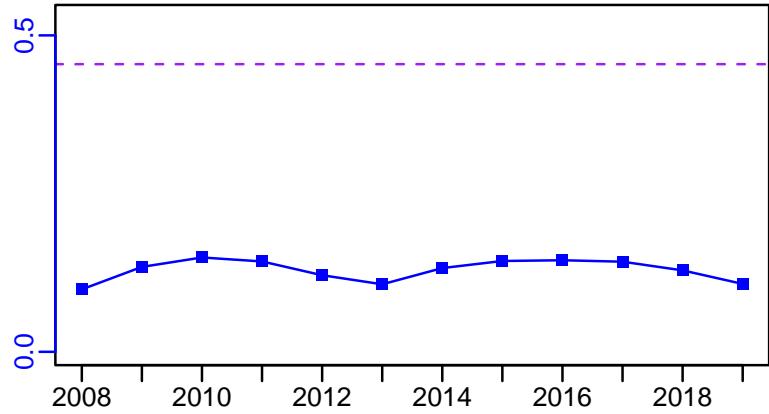
SSB-MT (2008–2019–MEDIMP2021–2)



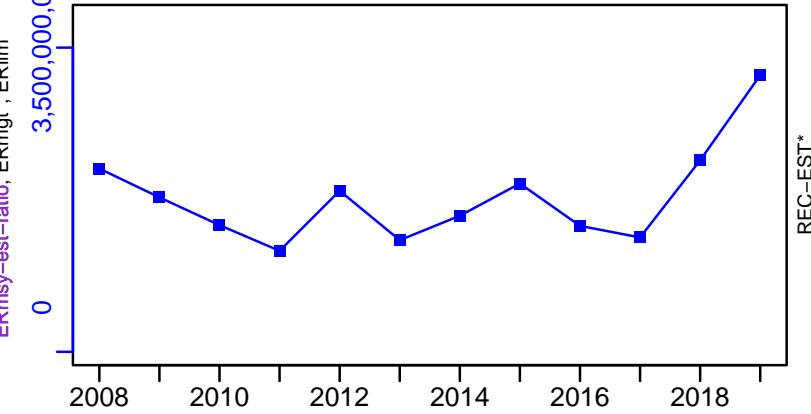
TN *



ER-calc-ratio (2008–2019–MEDIMP2021–2)



R-E00 (2008–2019–MEDIMP2021–2)

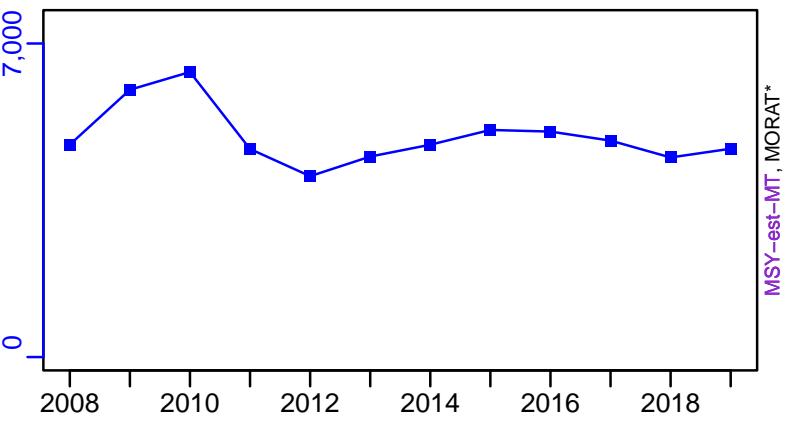


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	- - Lim BRP	* No Data

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

TC-MT, TL*, RecC* (2008–2019–MEDIMP2021–2)

TAC*, Cpair*, Cadv*



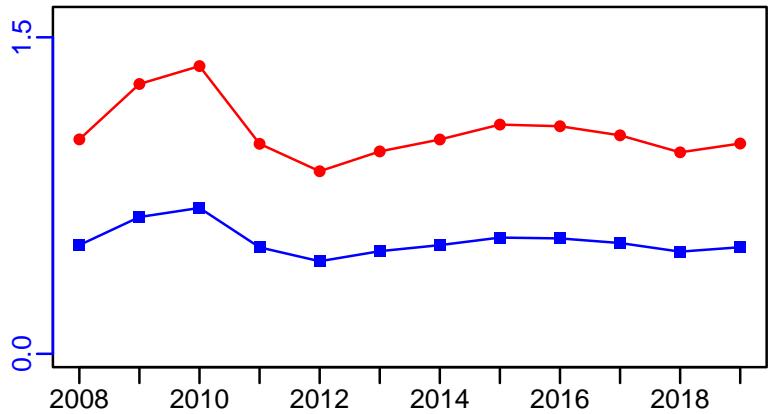
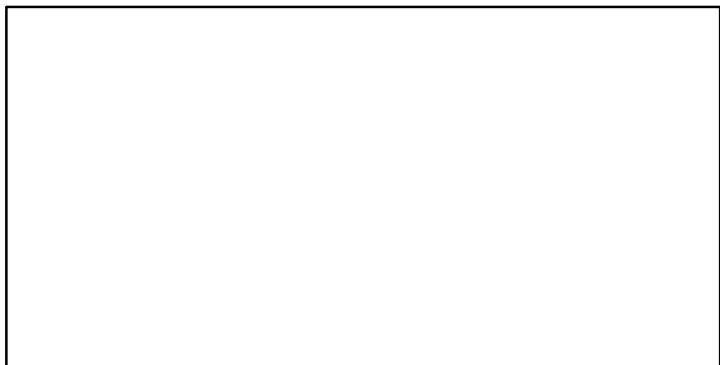
survB*

MSY-est-MT, MORAT*

CPUE*

EFFORT*

TC-MT/MSY-est-MT, CdivMEANC-ratio, (2008–2019–MEDIMP2021–2)



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

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

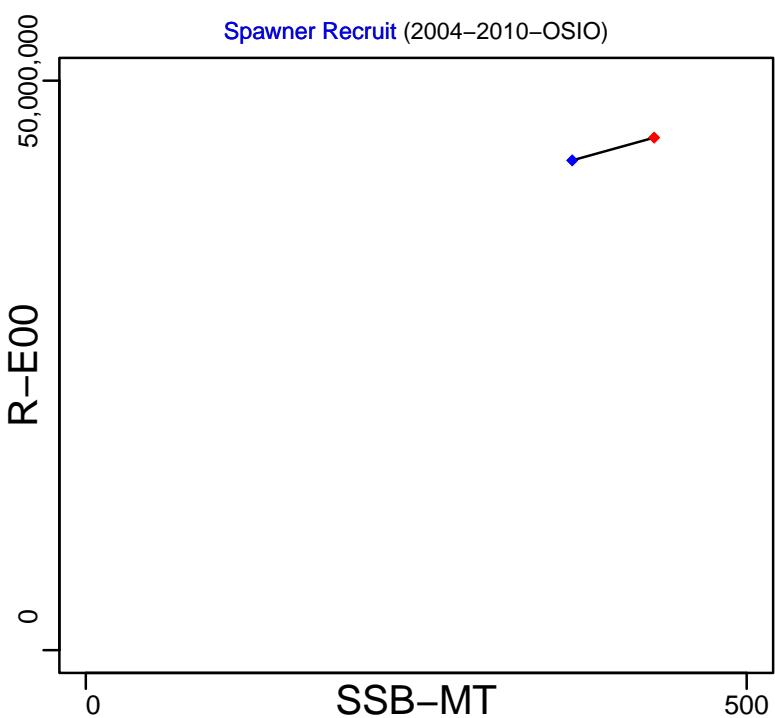
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2010	0.54
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-	-	-
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)

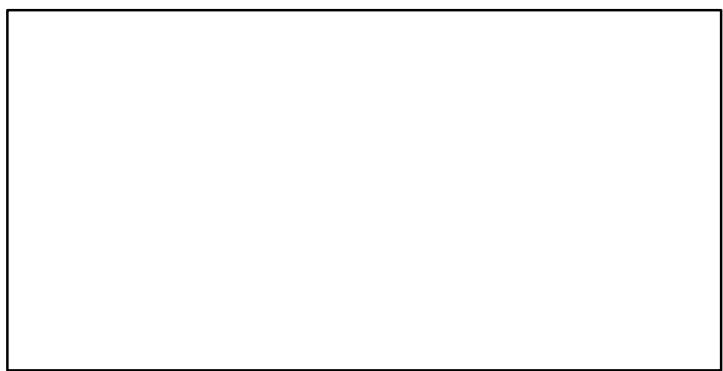


Production*

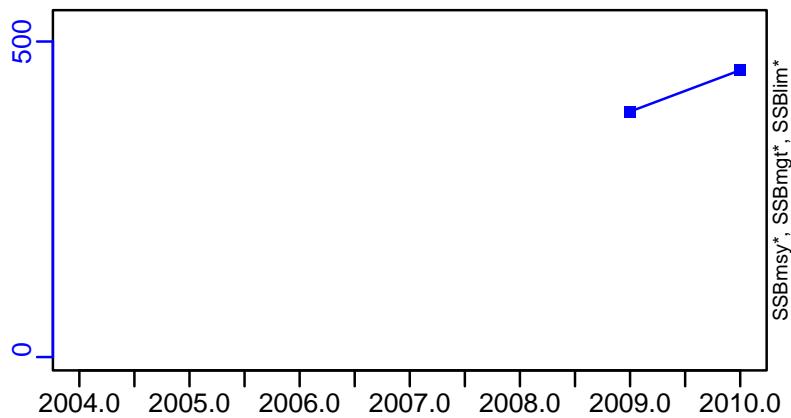
◆ Start Year ◆ End Year * No Data

Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

TB*



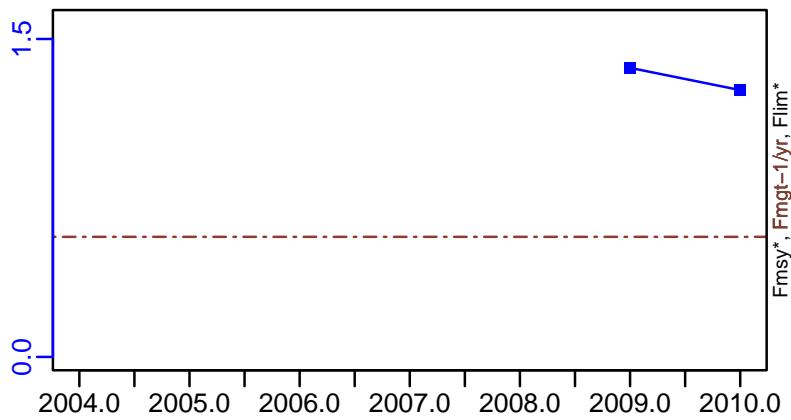
SSB-MT (2004–2010–OSIO)



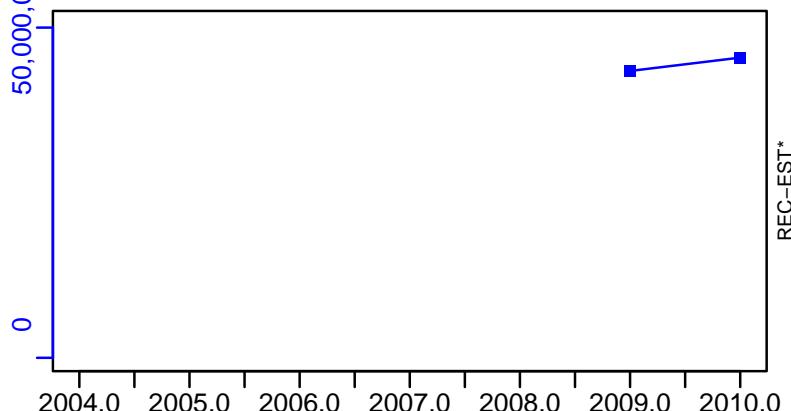
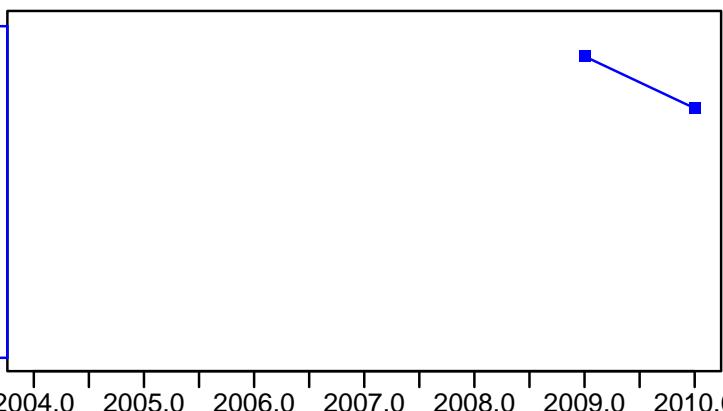
TN *



F-1/yr (2004–2010–OSIO)



ER-calc-ratio (2004–2010–OSIO)

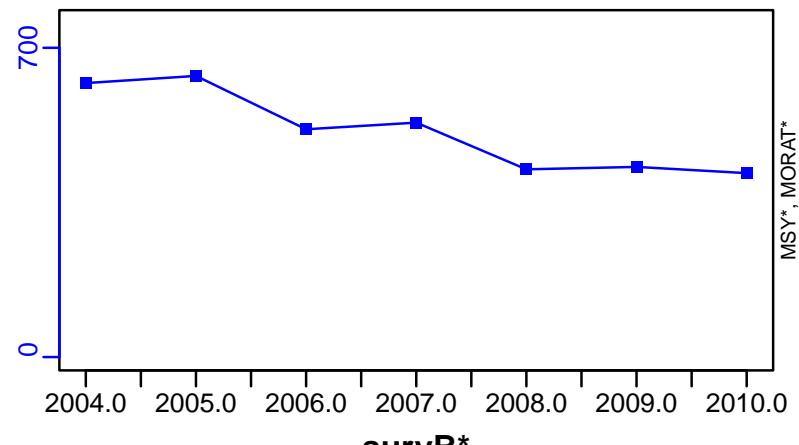


- Listed time series
- - - Target BRP
- - MSY-based BRP
- - Lim BRP
- Rec-Est
- * No Data

Spottail mantis shrimp Ligurian and North Tyrrhenian Sea [SMSHRMPMEDGSA9]

TC-MT, TL*, RecC* (2004–2010–OSIO)

TAC*, Cpair*, Cadv*



survB*

MSY*, MORAT*

CPUE*

EFFORT*

CdivMSY*

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

Southern pink shrimp Central West Africa [SPSHRIMPCWA]

Metadata	
Scientific Name	Farfantepenaeus notialis
Current Assess ID	FAO-DR-SPSHRIMPCWA-1990-2007-CHING
Area	Central West Africa
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2007	2250		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

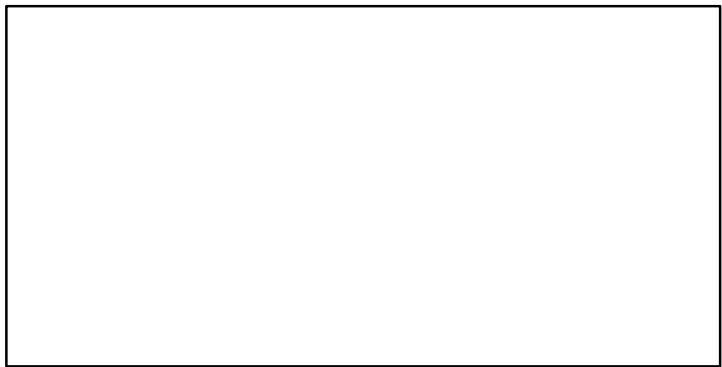
Spawner Recruit*

Production*

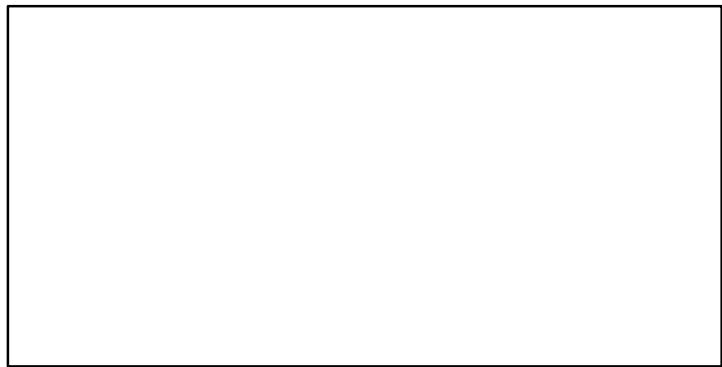
◆ Start Year ♦ End Year * No Data

Southern pink shrimp Central West Africa [SPSHRIMP CWA]

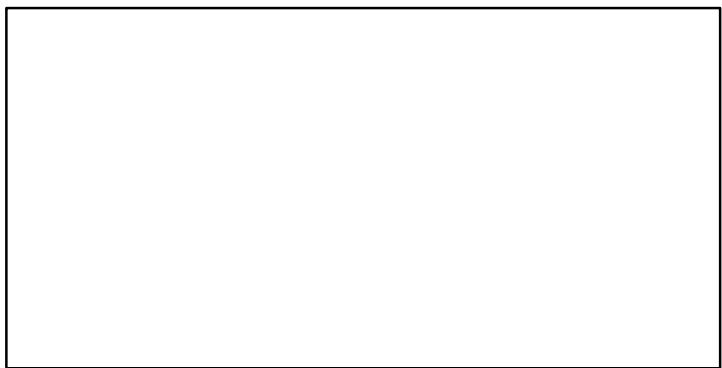
TB*



SSB*



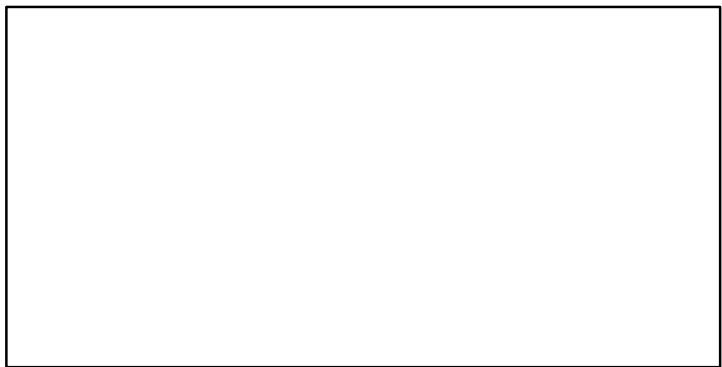
TN *



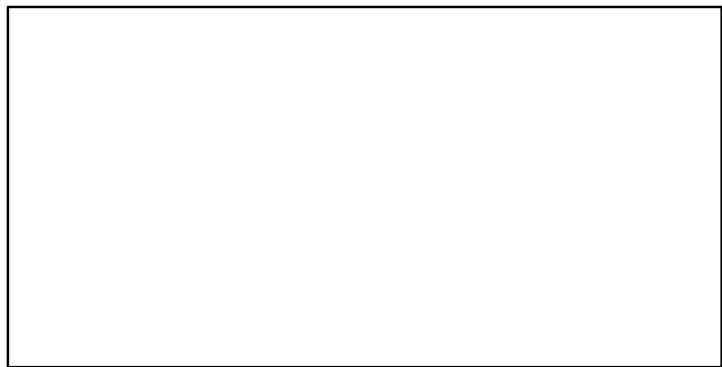
F*



ER*



Recruits*

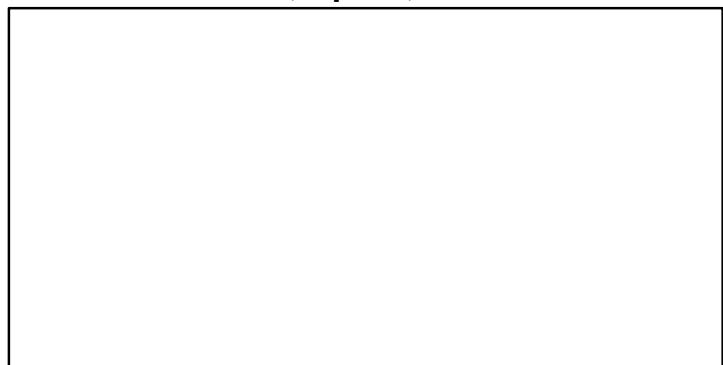
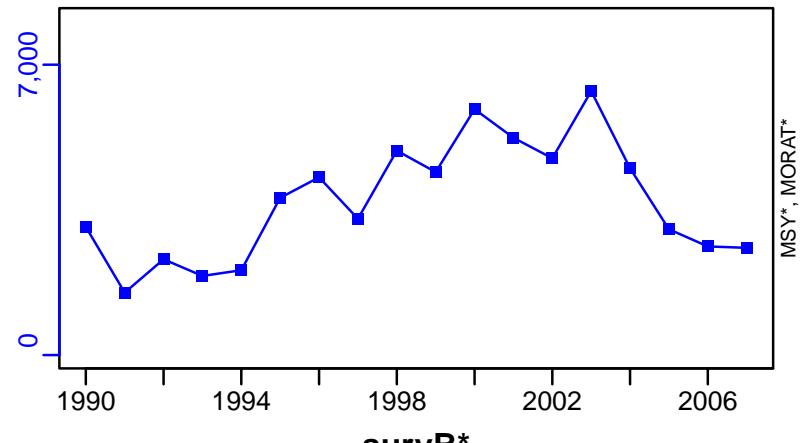


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Southern pink shrimp Central West Africa [SPSHRIMPCWA]

TC-MT, TL*, RecC* (1990–2007–CHING)

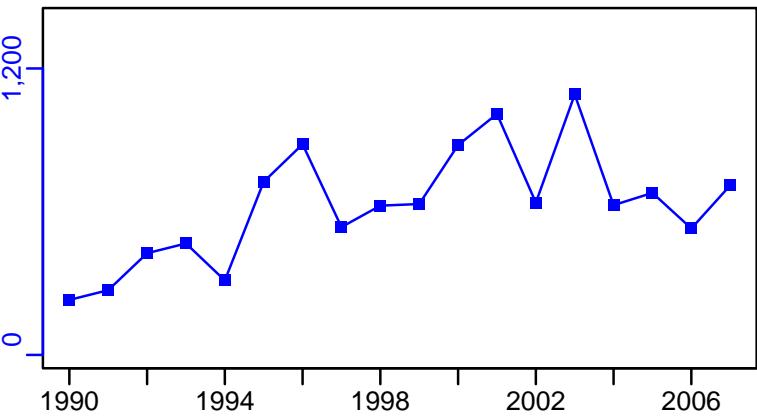
TAC*, Cpair*, Cadv*



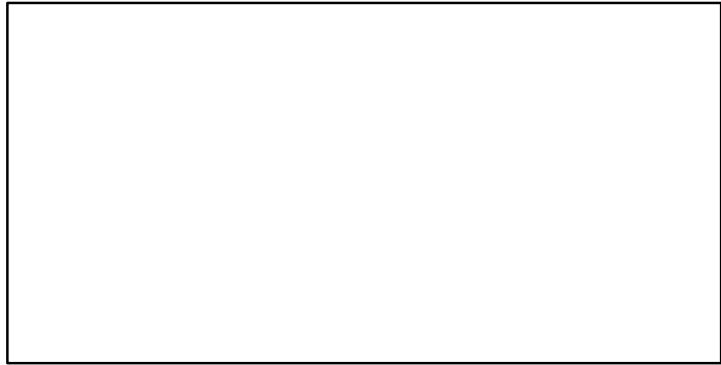
survB*



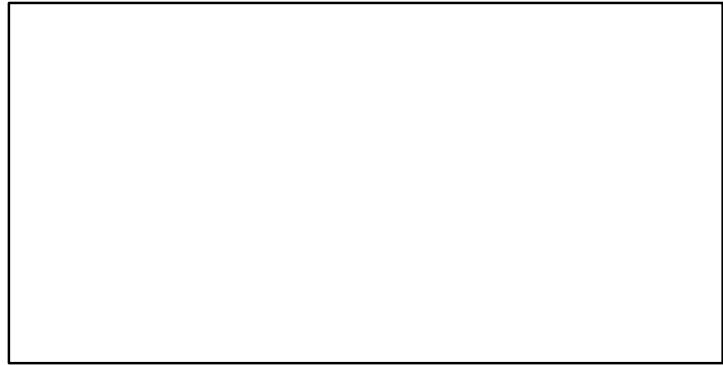
CPUE–kg/day (1990–2007–CHING)



EFFORT*



CdivMSY*



Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

Metadata	
Scientific Name	Farfantepenaeus notialis
Current Assess ID	FAO-DR-SPSHRIMPNWAMRT-1990-2019-ASHBROOK
Area	North West Africa Mauritania
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
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	2019	343		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

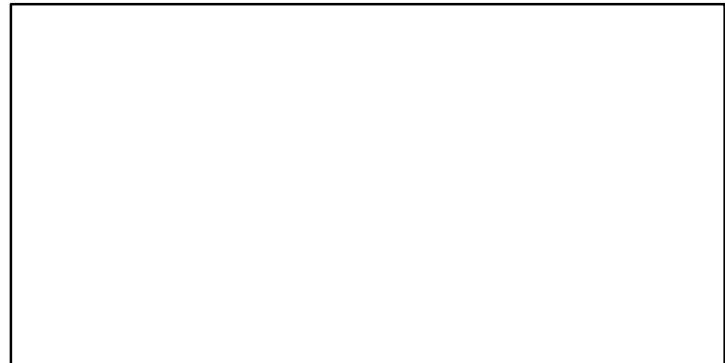
◆ Start Year ♦ End Year * No Data

Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

TB*



SSB*



TN *



F*



ER*



Recruits*

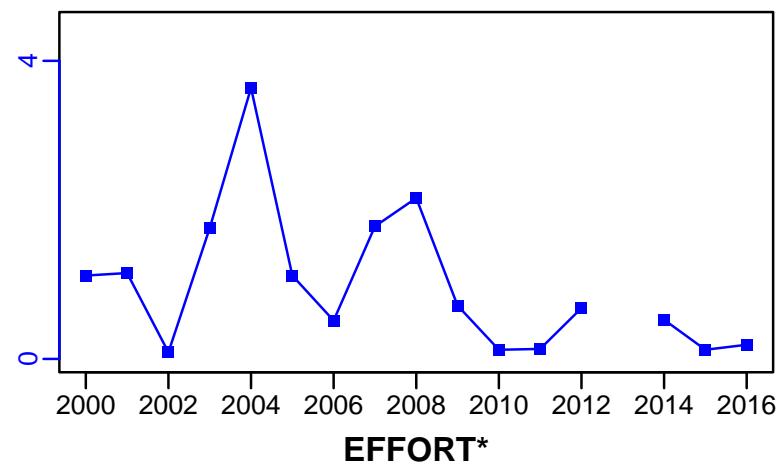
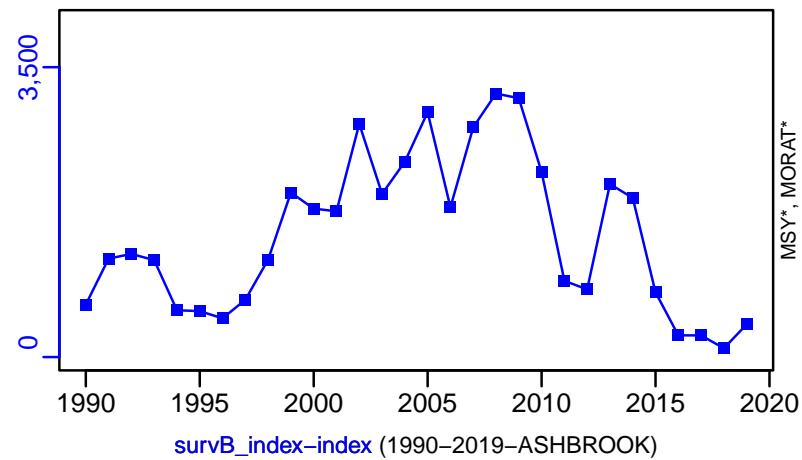


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Southern pink shrimp North West Africa Mauritania [SPSHRIMPNWAMRT]

TC-MT, TL*, RecC* (1990–2019–ASHBROOK)

TAC*, Cpair*, Cadv*



EFFORT*

CPUE*

CdivMSY*

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

**Southern pink shrimp North West Africa Senegal_The Gambia
[SPSHRIMPNWASEN_GMB]**

Metadata	
Scientific Name	Farfantepenaeus notialis
Current Assess ID	FAO-DR-SPSHRIMPNWASEN_GMB-1987-2016-ASHBROOK
Area	North West Africa Senegal_The Gambia
Management Authority	Food and Agriculture Organization of the United Nations
Assessor	FAO/CECAF Working Group on the Assessment of Demersal Resources
Asmts in RAM	2016

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	981		
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*



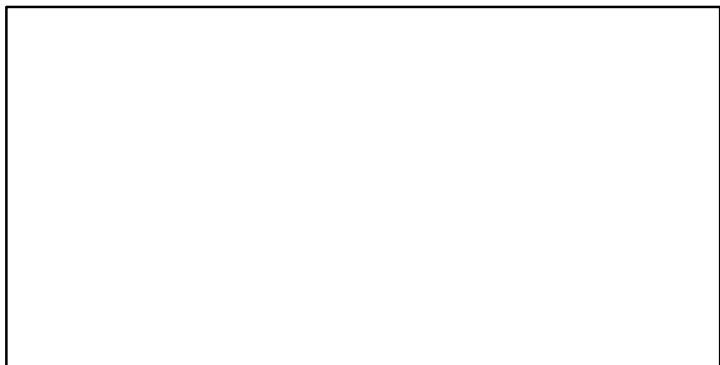
TN *



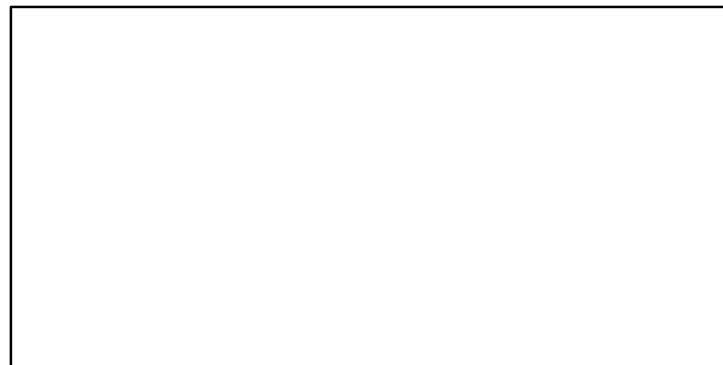
F*



ER*



Recruits*

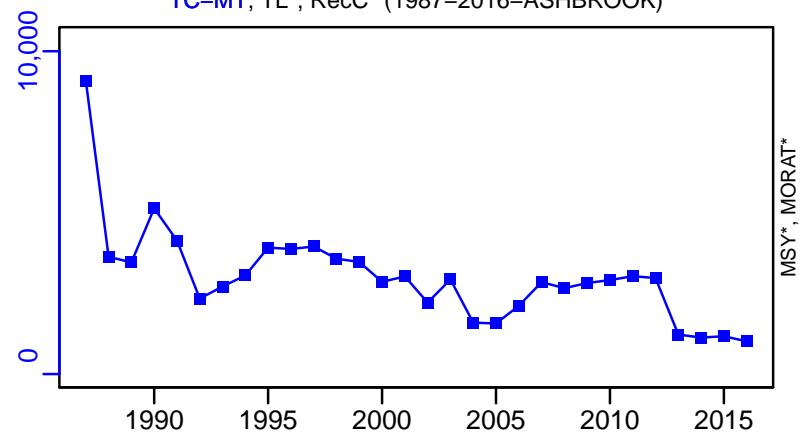


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Southern pink shrimp North West Africa Senegal_The Gambia [SPSHRIMPNWASEN_GMB]

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

TAC*, Cpair*, Cadv*



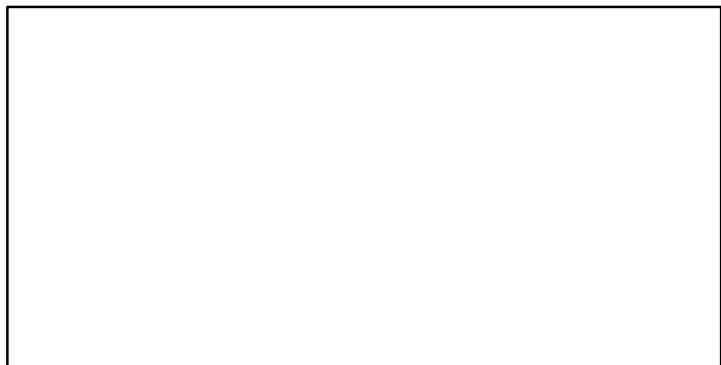
survB*



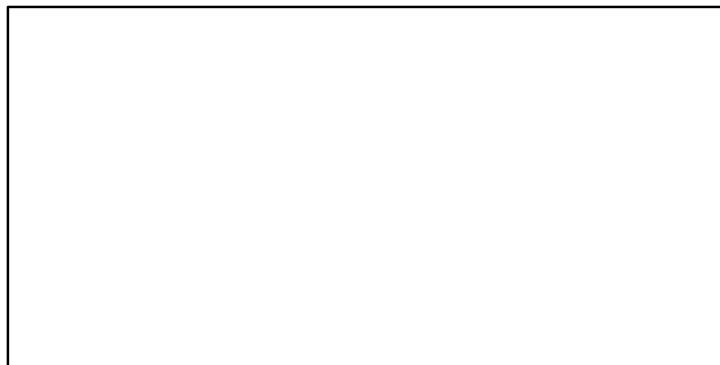
CPUE*



EFFORT*



CdivMSY*



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

Sidestripe shrimp Shrimp Management Area GTSE [SSHrimpsMAGTSE]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSHrimpsMAGTSE-1992-2011-WATSON
Area	Shrimp Management Area GTSE
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	177	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0.051	-	-	
TC	-	-	-			
TL	TL-MT	2011	16			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Sidestripe shrimp Shrimp Management Area GTSE [SSHRIMPSMAGTSE]

Kobe MSY*

Kobe MGT*

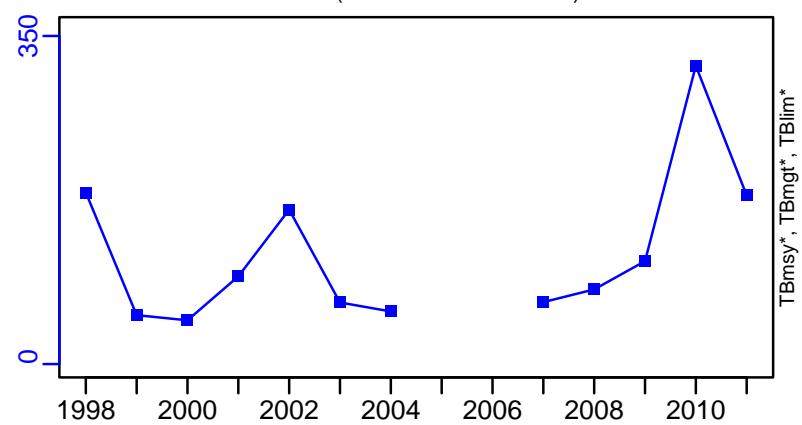
Spawner Recruit*

Production*

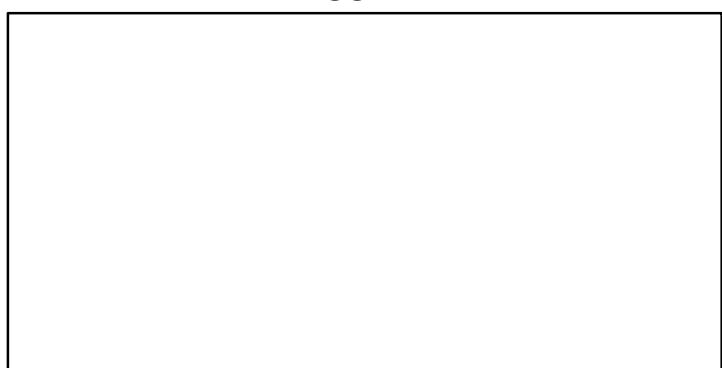
◆ Start Year ◆ End Year * No Data

Sidestripe shrimp Shrimp Management Area GTSE [SSHRIMPSMAGTSE]

TB-MT (1992–2011–WATSON)



SSB*



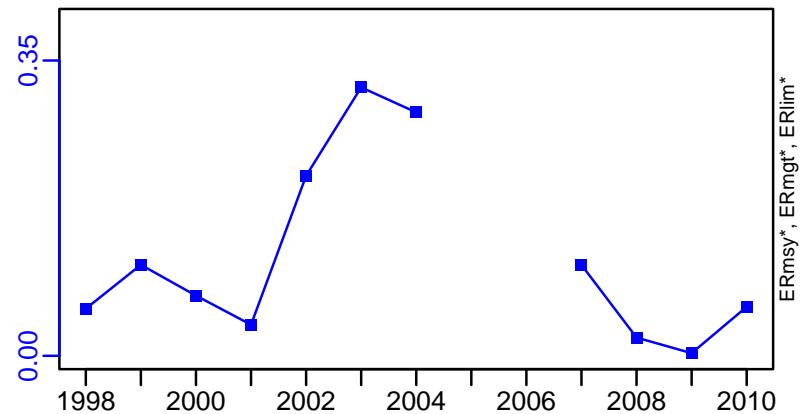
TN *



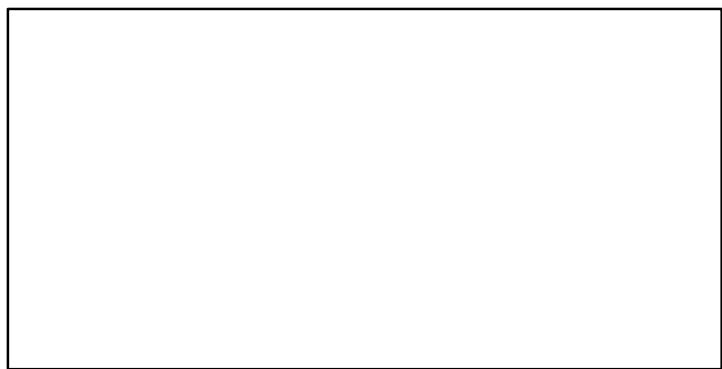
F*



ER-calc-ratio (1992–2011–WATSON)



Recruits*

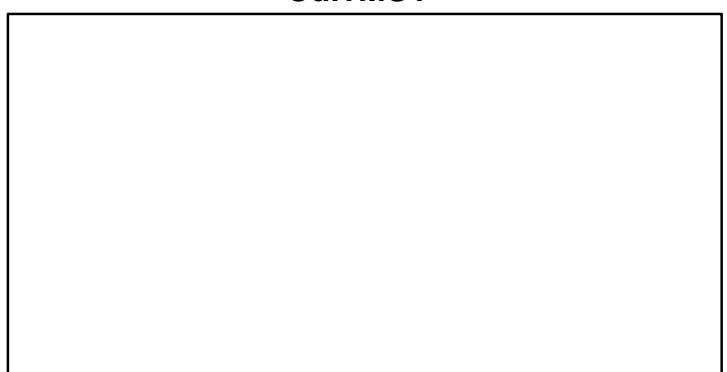
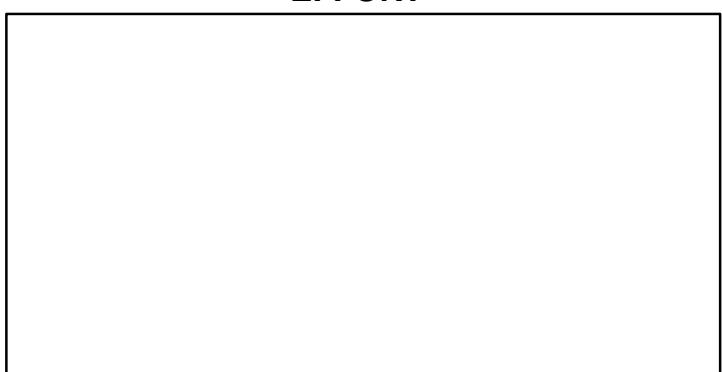
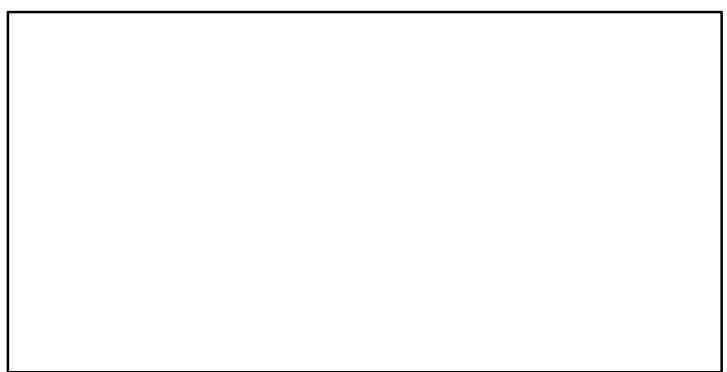
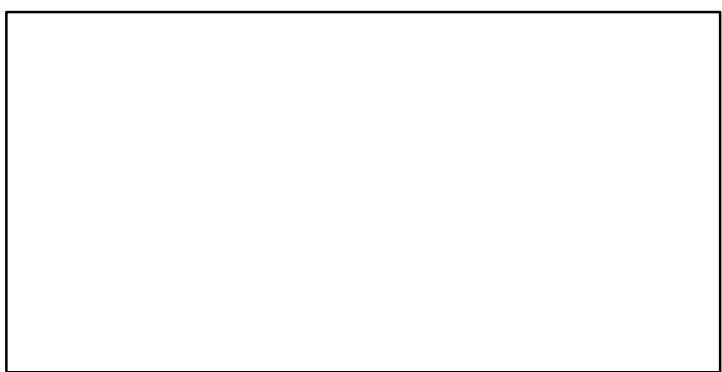
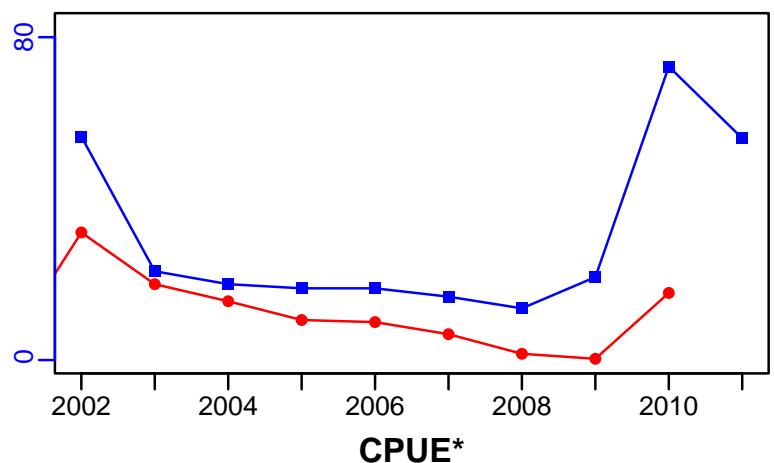
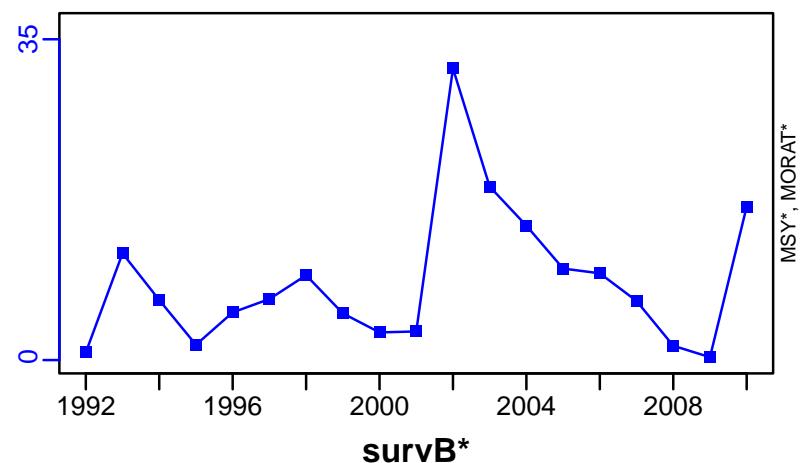


- | | | |
|----------------------|----------------|-----------|
| ■ Listed time series | --- Target BRP | — Rec-Est |
| - - MSY-based BRP | ·· Lim BRP | * No Data |

Sidestripe shrimp Shrimp Management Area GTSE [SSHRIMPSMAGTSE]

TL-MT, TC*, RecC* (1992–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1992–2011-WATSON)



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

Sidestripe shrimp Shrimp Management Area PRD [SSHrimpsMAPRD]

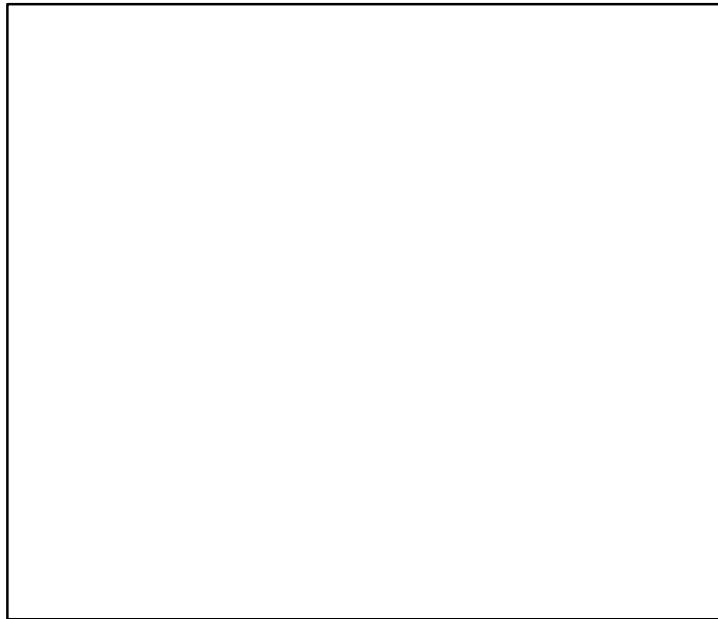
Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSHrimpsMAPRD-1987-2011-WATSON
Area	Shrimp Management Area PRD
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

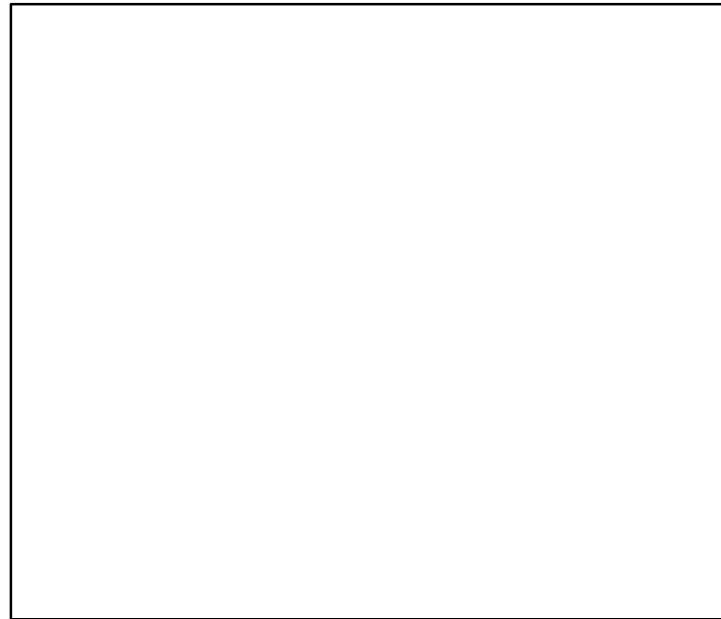
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	53		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sidestripe shrimp Shrimp Management Area PRD [SSHrimpsMAPRD]

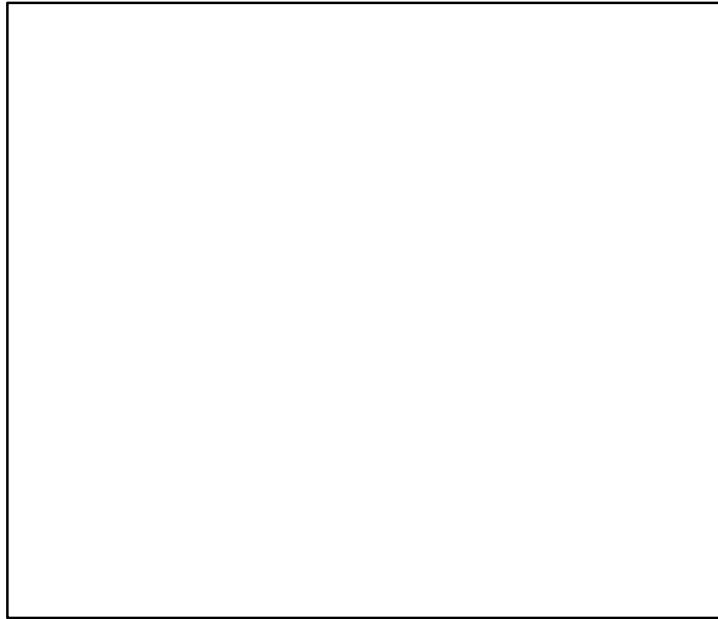
Kobe MSY*



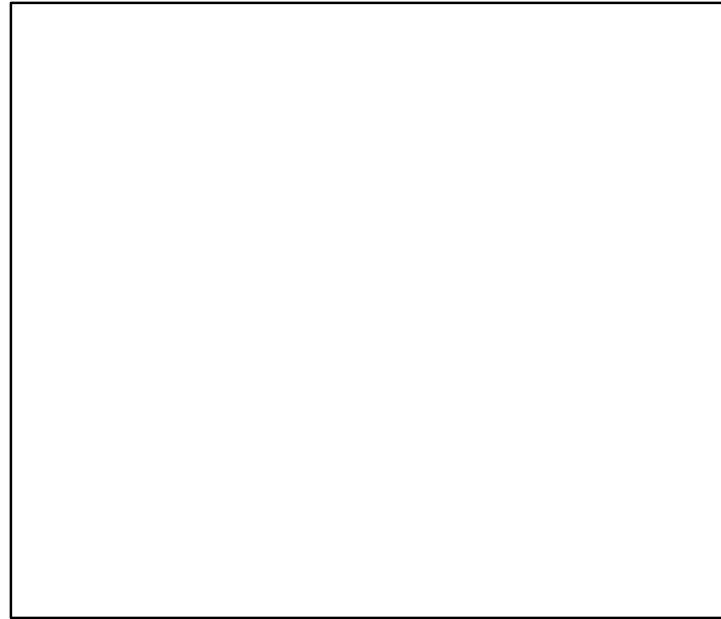
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ♦ End Year * No Data

Sidestripe shrimp Shrimp Management Area PRD [SSHRIMPSMAPRD]

TB*



SSB*



TN *



F*



ER*



Recruits*

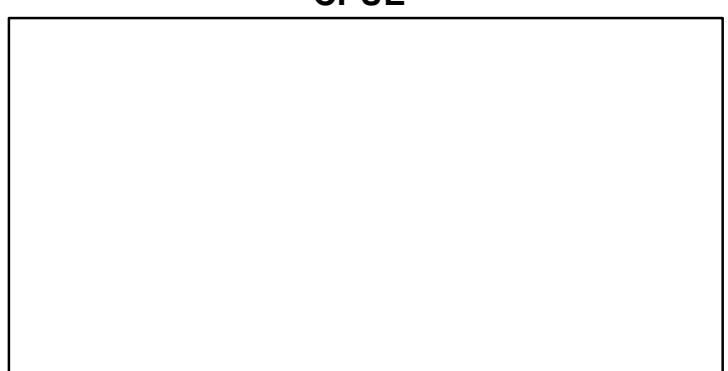
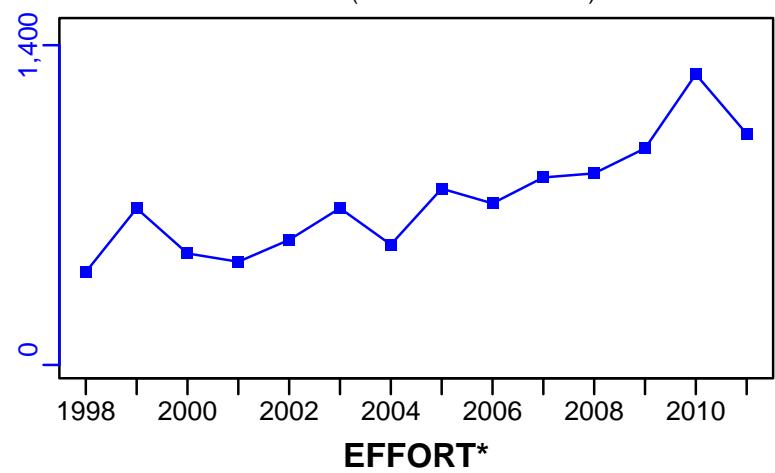
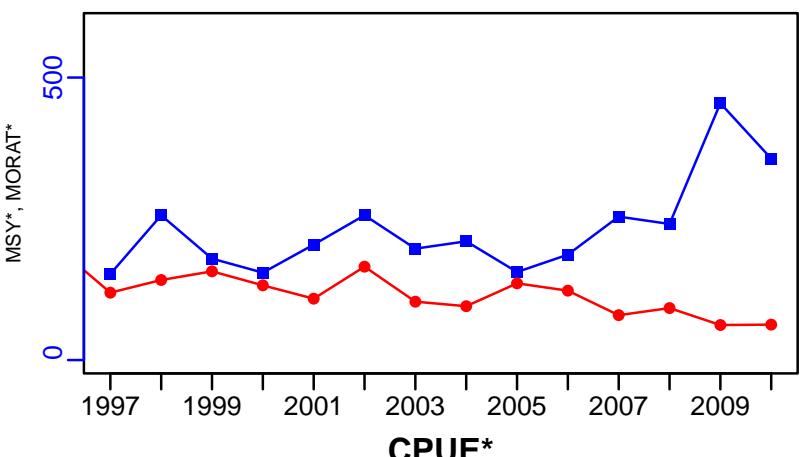
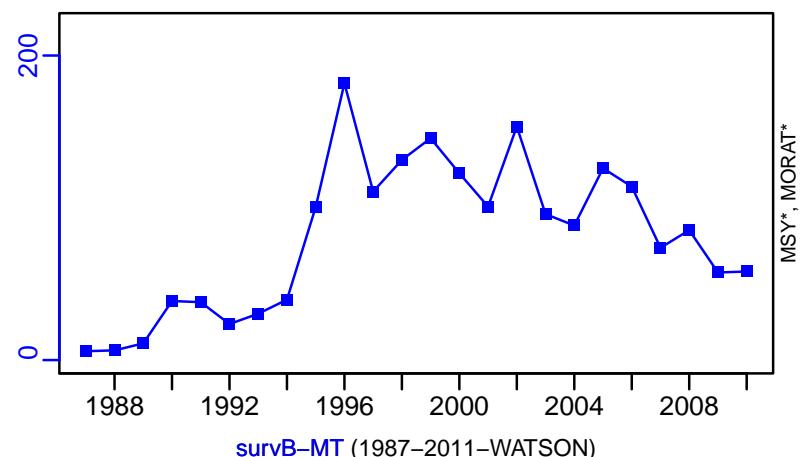


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

Sidestripe shrimp Shrimp Management Area PRD [SSHrimpsMAPRD]

TL-MT, TC*, RecC* (1987–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011-WATSON)



EFFORT*

CdivMSY*

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

Sidestripe shrimp Shrimp Management Area 14 [SSSHRIMPSMA14]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA14-1987-2011-WATSON
Area	Shrimp Management Area 14
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	10		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sidestripe shrimp Shrimp Management Area 14 [SSSHRIMPSMA14]

Kobe MSY*

Kobe MGT*

Spawner Recruit*

Production*

◆ Start Year ♦ End Year * No Data

Sidestripe shrimp Shrimp Management Area 14 [SSSHRIMPSMA14]

TB*



SSB*



TN *



F*



ER*



Recruits*

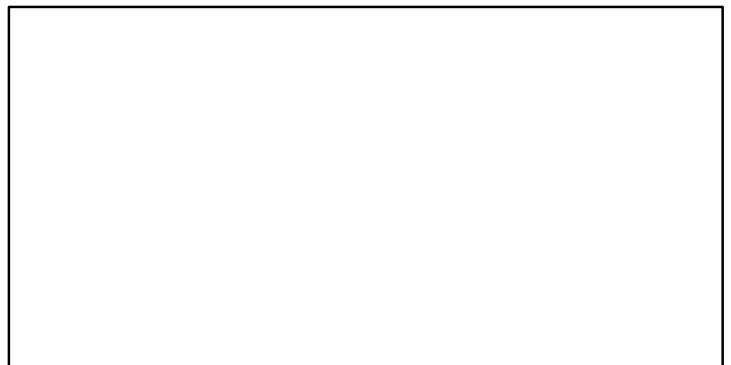
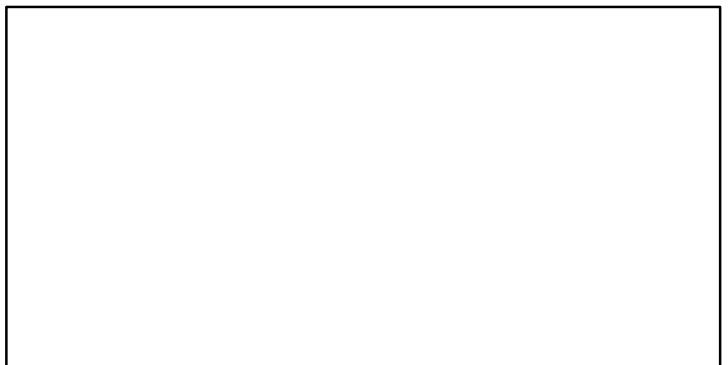
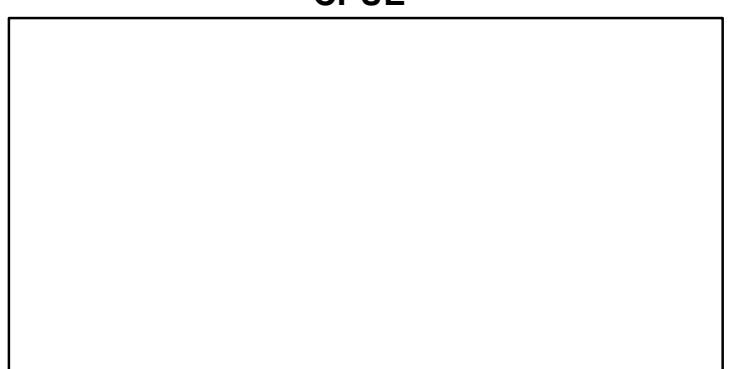
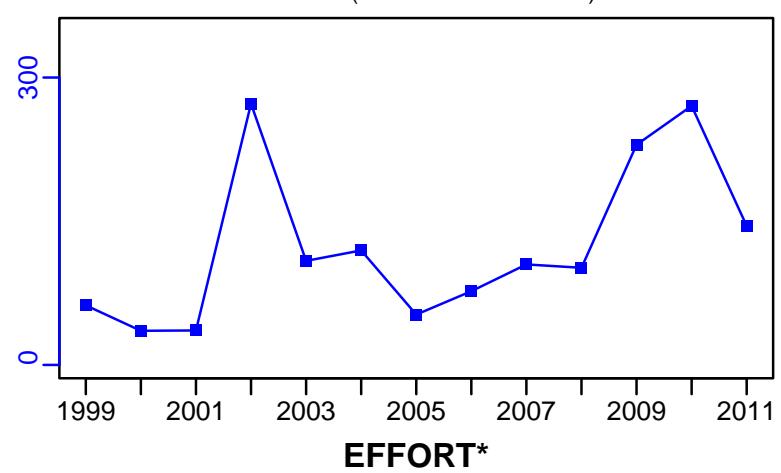
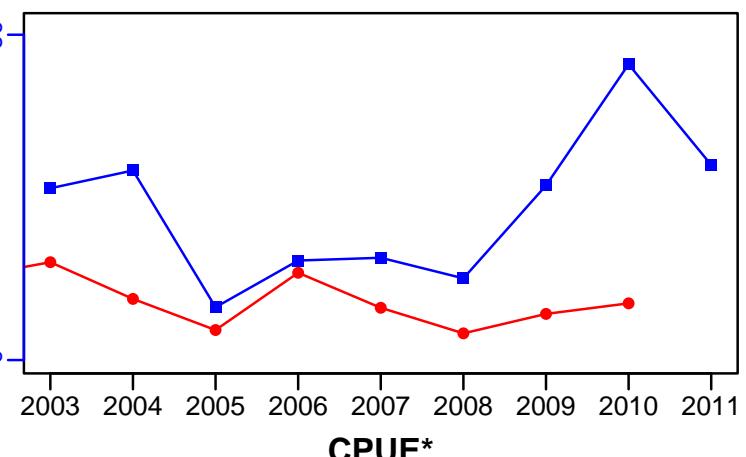
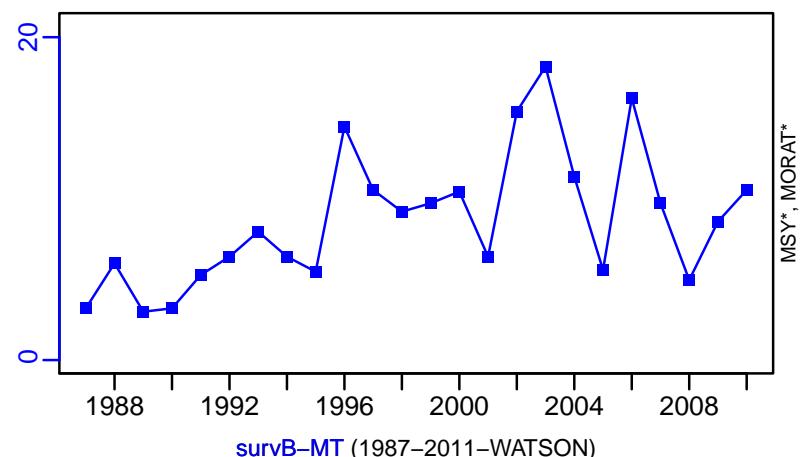


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sidestripe shrimp Shrimp Management Area 14 [SSSHRIMPSMA14]

TL-MT, TC*, RecC* (1987–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011-WATSON)



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

Sidestripe shrimp Shrimp Management Area 16 [SSSHRIMPSMA16]

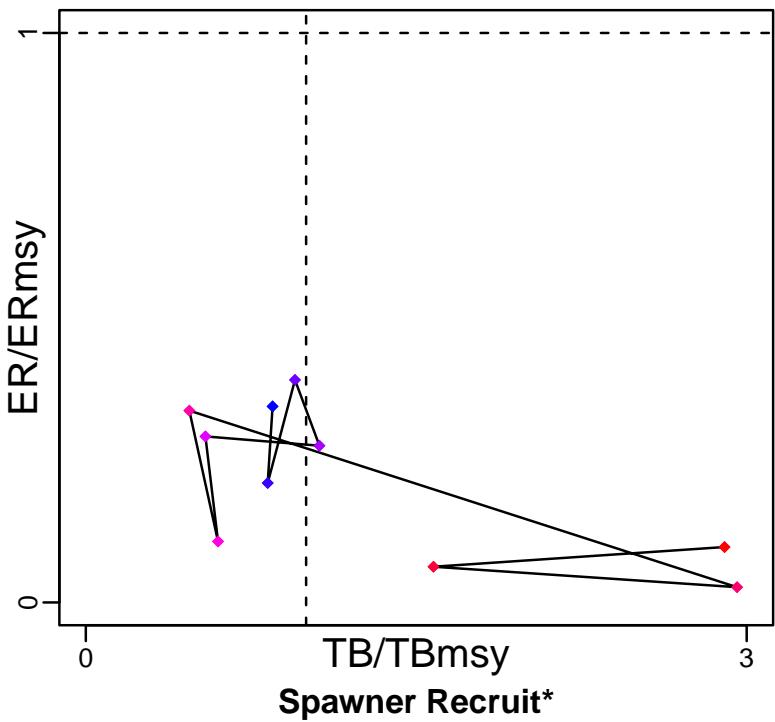
Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA16-1987-2011-WATSON
Area	Shrimp Management Area 16
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

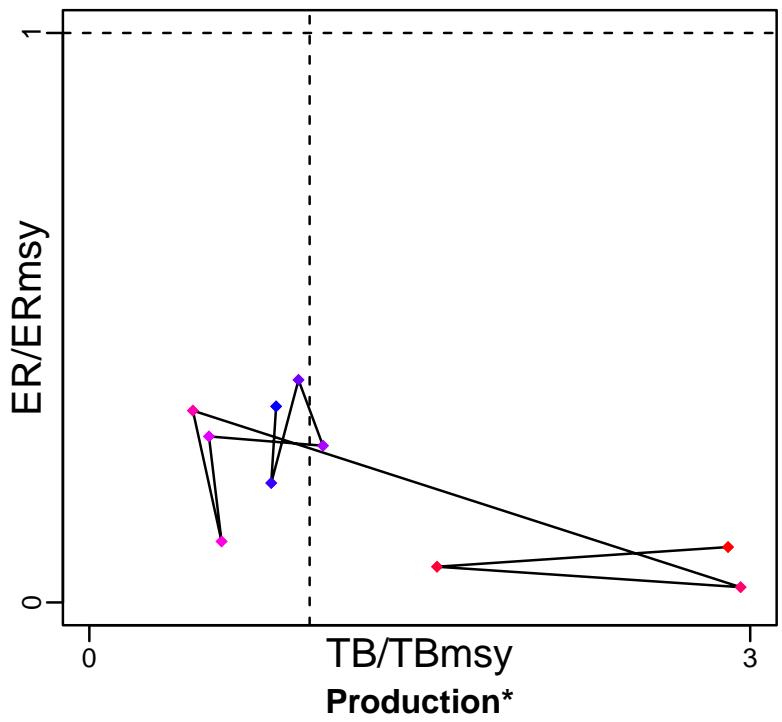
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	34	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0.062	-	-	
TC	-	-	-			
TL	TL-MT	2011	6			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERrmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Sidestripe shrimp Shrimp Management Area 16 [SSSHRIMPSMA16]

Kobe MSYpref (1987–2011–WATSON)



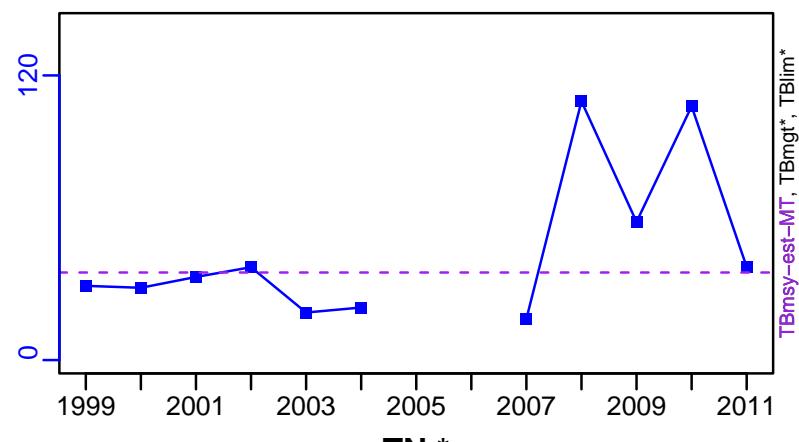
Kobe MGTPref (1987–2011–WATSON)



◆ Start Year ◆ End Year * No Data

Sidestripe shrimp Shrimp Management Area 16 [SSSHRIMPSMA16]

TB-MT (1987–2011–WATSON)



SSB*



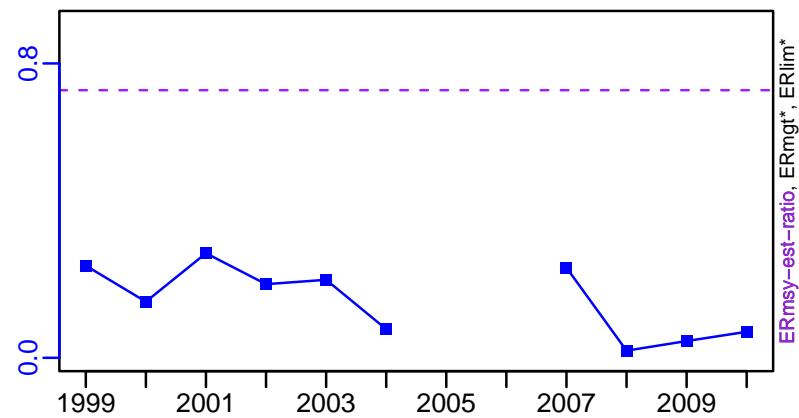
TN *



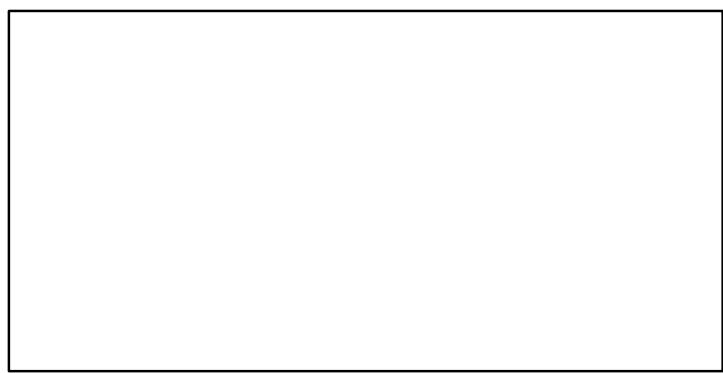
F*



ER-calc-ratio (1987–2011–WATSON)



Recruits*

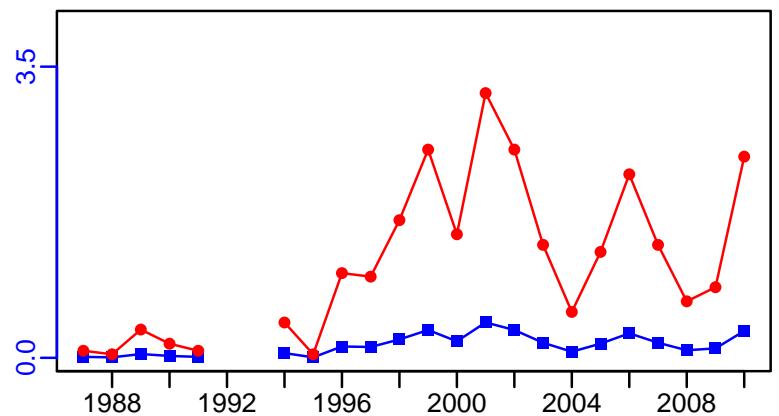
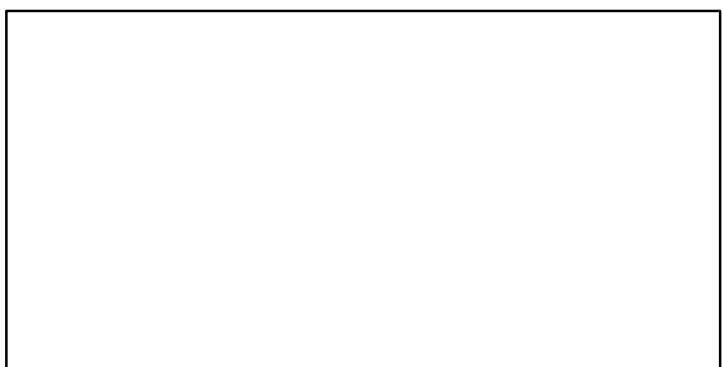
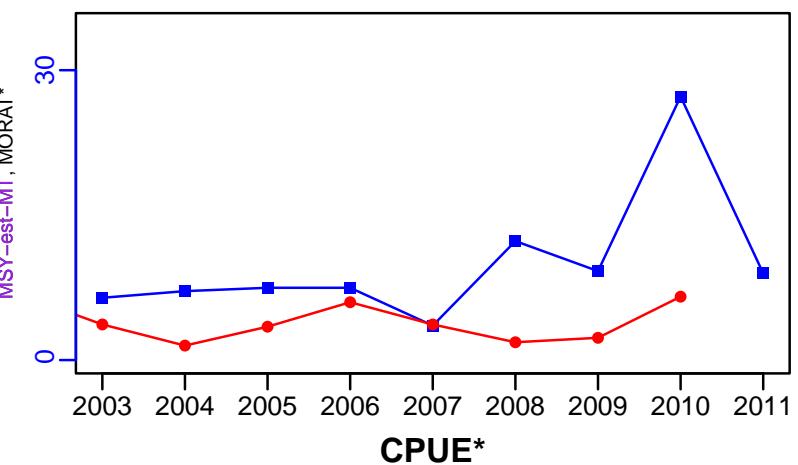
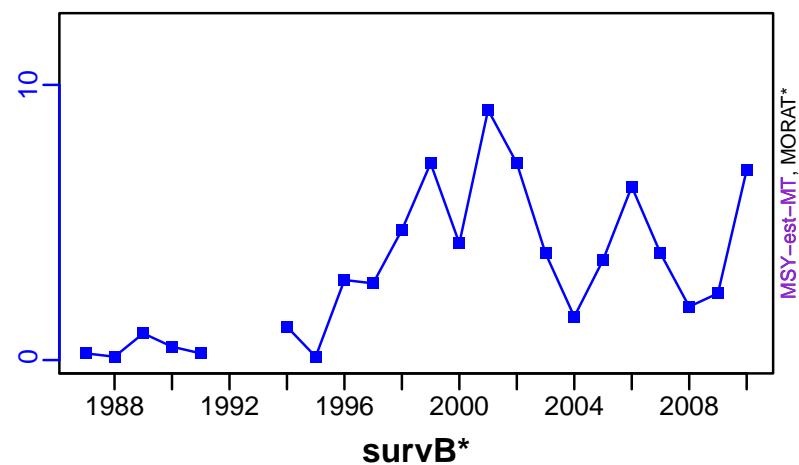


- | | | |
|----------------------|--------------|-----------|
| ■ Listed time series | — Target BRP | — Rec-Est |
| - - - MSY-based BRP | --- Lim BRP | * No Data |

Sidestripe shrimp Shrimp Management Area 16 [SSSHRIMPSMA16]

TL-MT, TC*, RecC* (1987–2011–WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011–WATSON)



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

Sidestripe shrimp Shrimp Management Areas 18 and 19 [SSSHRIMPSMA18-19]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMA18-19-1987-2011-WATSON
Area	Shrimp Management Areas 18 and 19
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

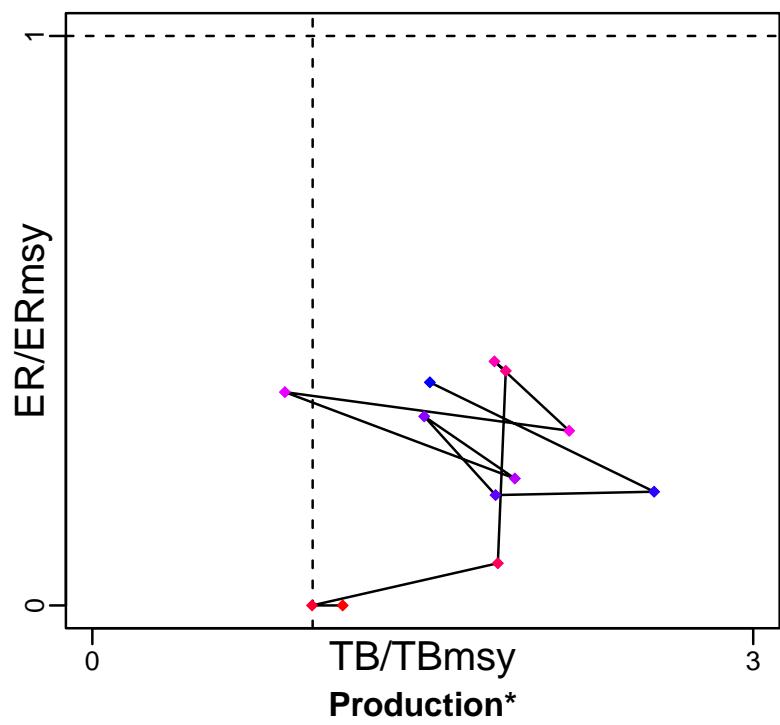
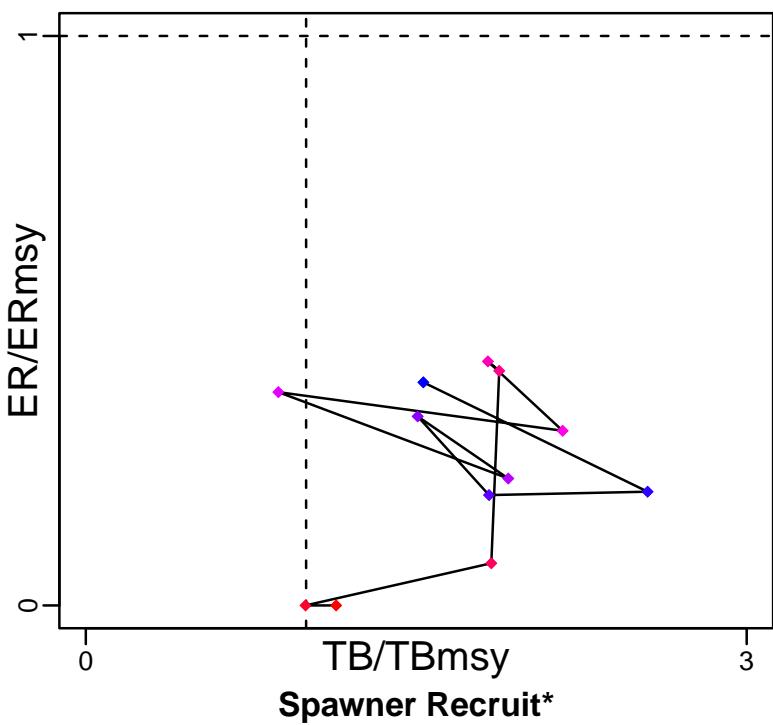
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	TB-MT	2011	22	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2011	0	-	-	
TC	-	-	-			
TL	TL-MT	2011	0			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Sidestripe shrimp Shrimp Management Areas 18 and 19 [SSSHRIMPSMA18–19]

Kobe MSYpref (1987–2011–WATSON)

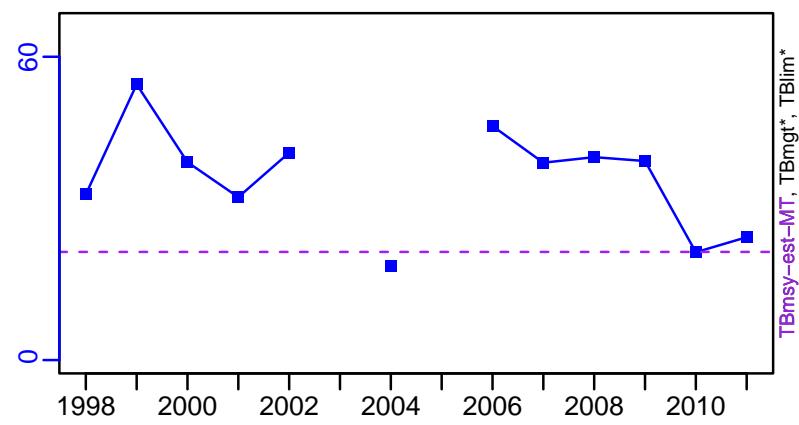
Kobe MGTPref (1987–2011–WATSON)



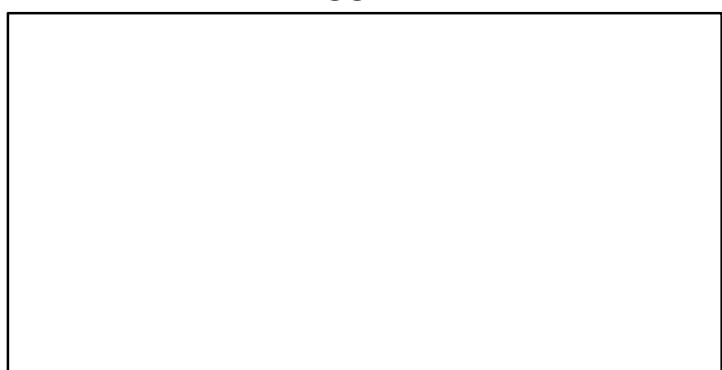
◆ Start Year ◆ End Year * No Data

Sidestripe shrimp Shrimp Management Areas 18 and 19 [SSSHRIMPSMA18–19]

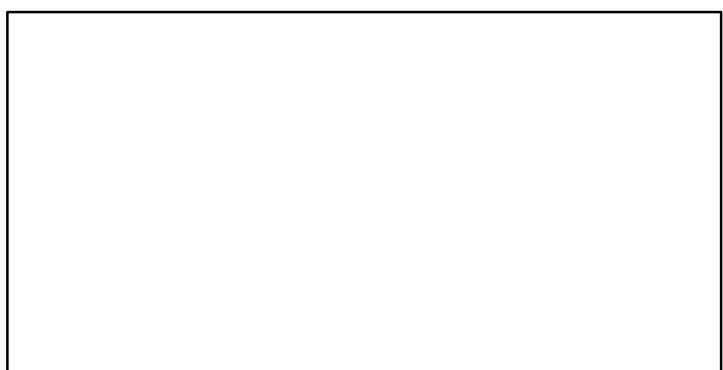
TB-MT (1987–2011–WATSON)



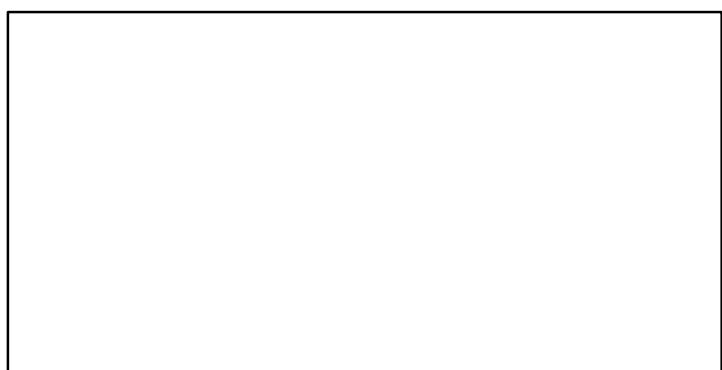
SSB*



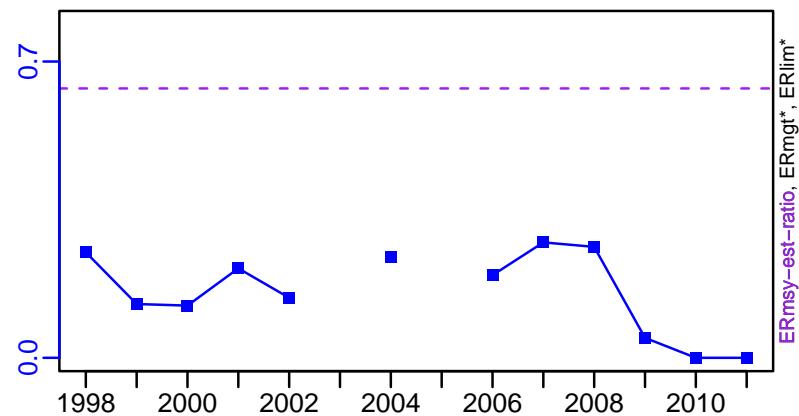
TN *



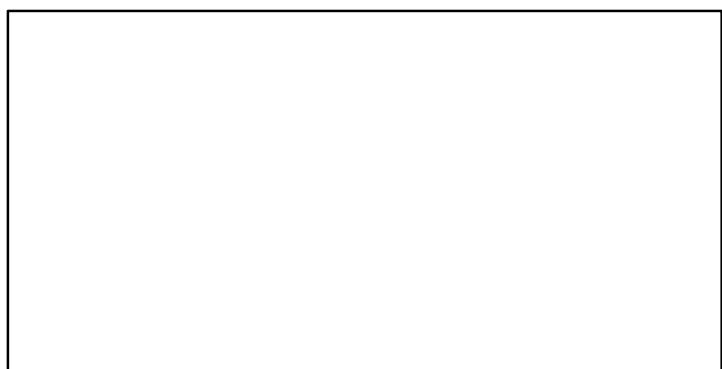
F*



ER-calc-ratio (1987–2011–WATSON)



Recruits*

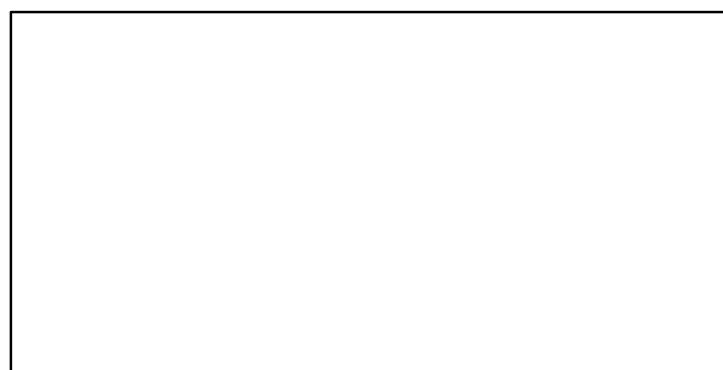
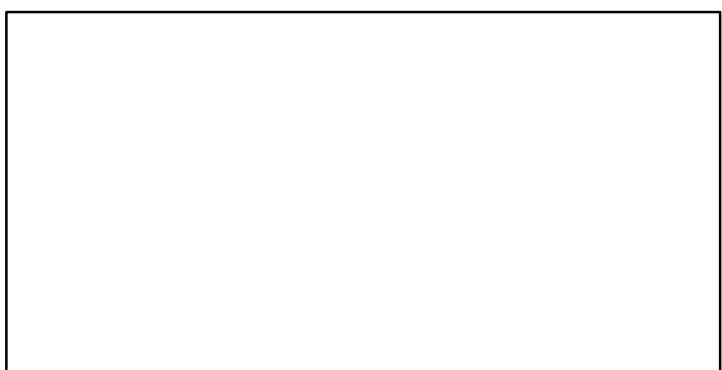
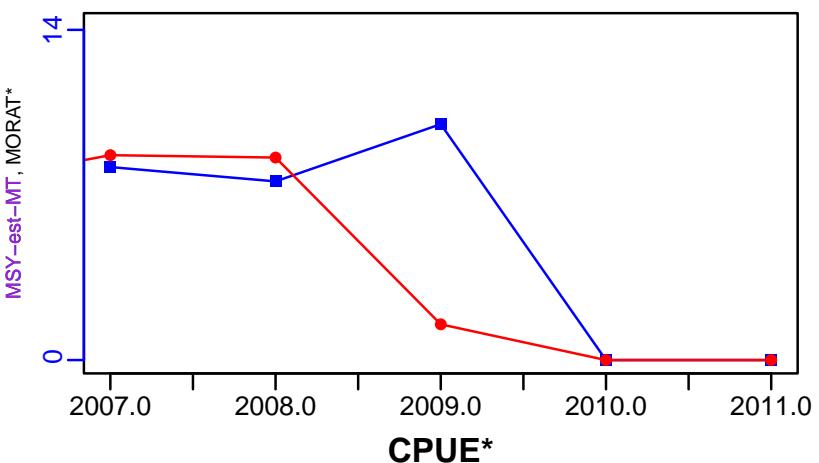
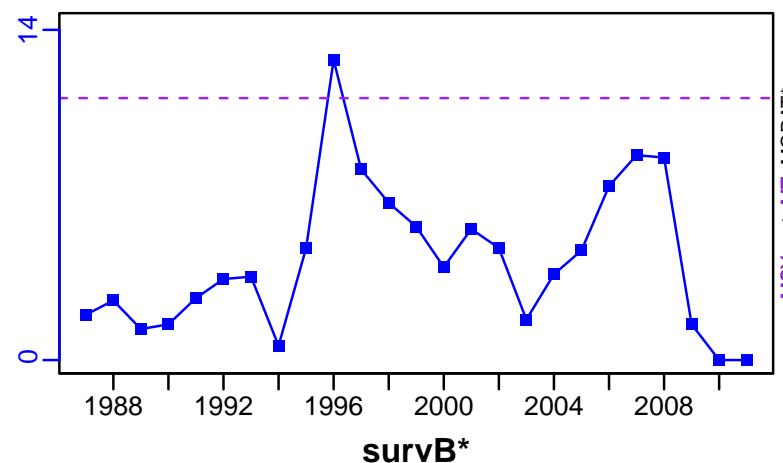


- Listed time series - - - Target BRP — Rec-Est
- - - MSY-based BRP - - - Lim BRP * No Data

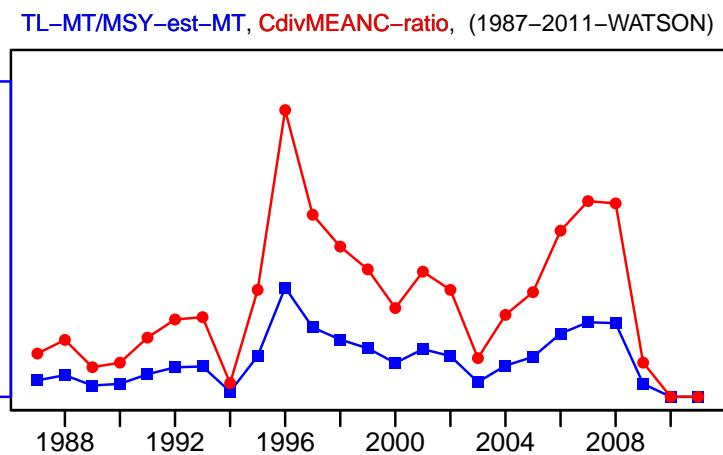
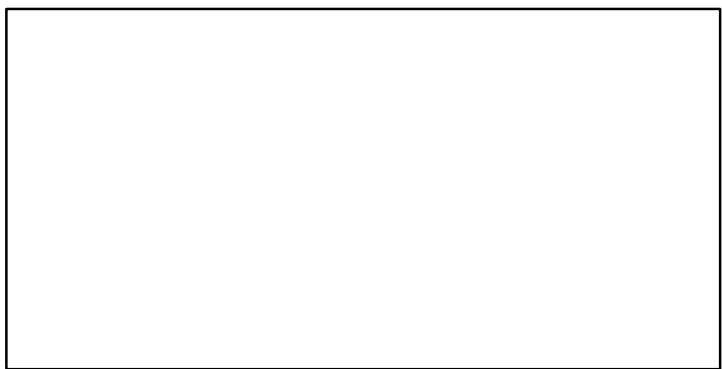
Sidestripe shrimp Shrimp Management Areas 18 and 19 [SSSHRIMPSMA18–19]

TL-MT, TC*, RecC* (1987–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011-WATSON)



EFFORT*



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

Sidestripe shrimp Shrimp Management Area FR [SSSHRIMPSMAFR]

Metadata	
Scientific Name	Pandalopsis dispar
Current Assess ID	DFO-SSSHRIMPSMAFR-1987-2011-WATSON
Area	Shrimp Management Area FR
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	38		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Sidestripe shrimp Shrimp Management Area FR [SSSHRIMPSMAFR]

Kobe MSY*

Kobe MGT*

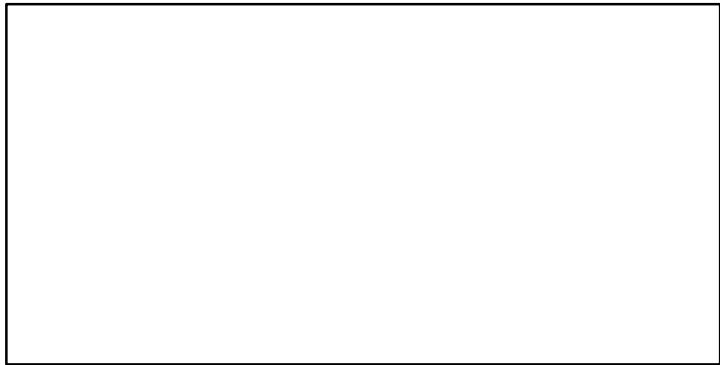
Spawner Recruit*

Production*

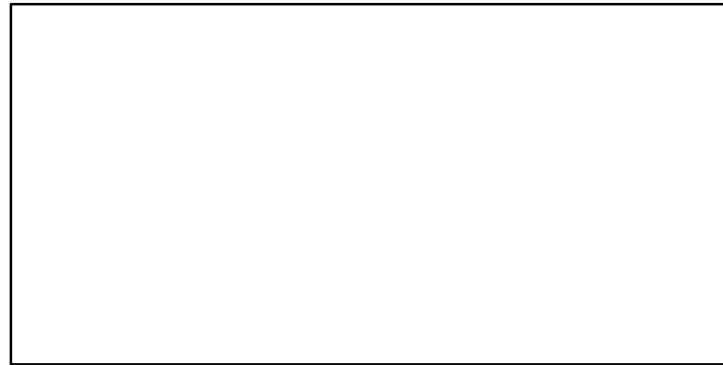
◆ Start Year ♦ End Year * No Data

Sidestripe shrimp Shrimp Management Area FR [SSSHRIMPSMAFR]

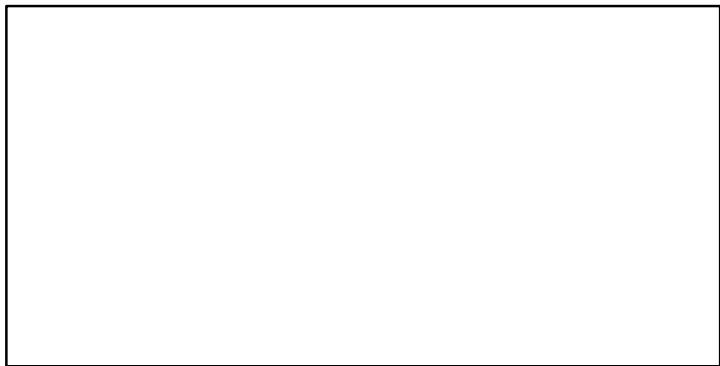
TB*



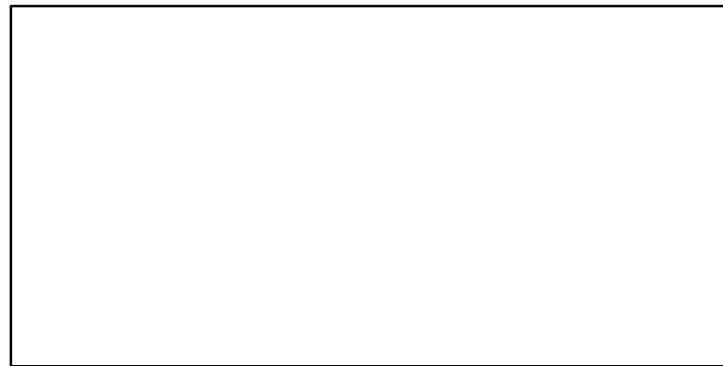
SSB*



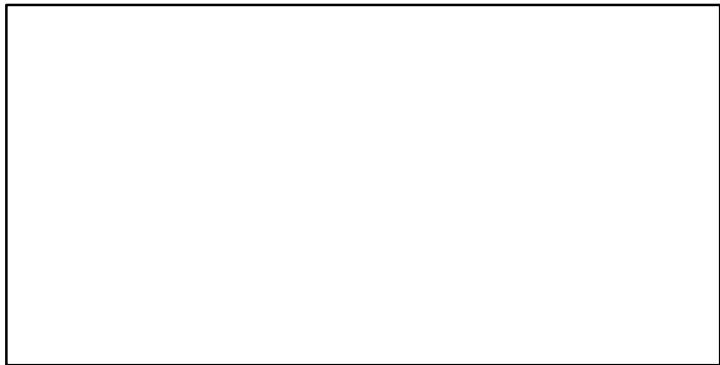
TN *



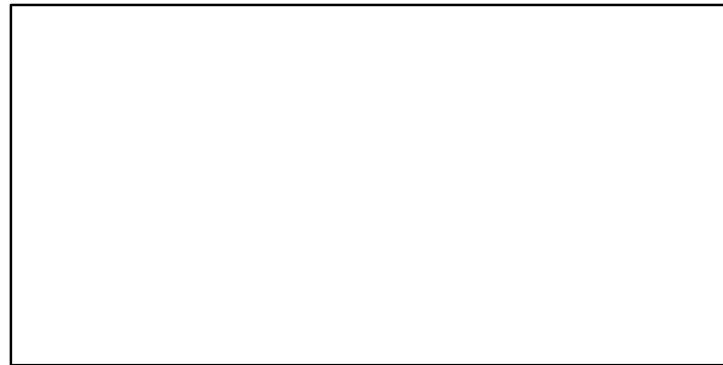
F*



ER*



Recruits*

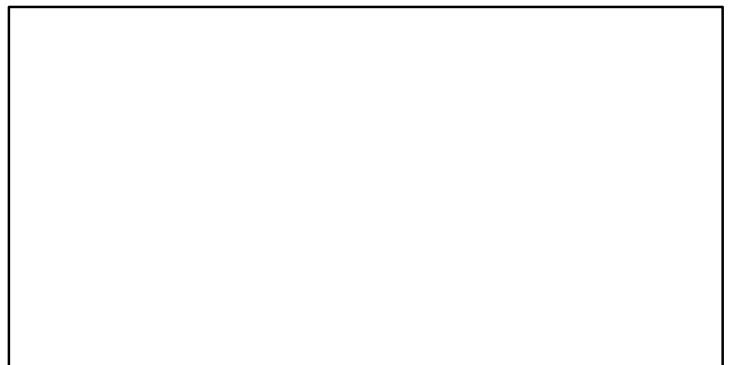
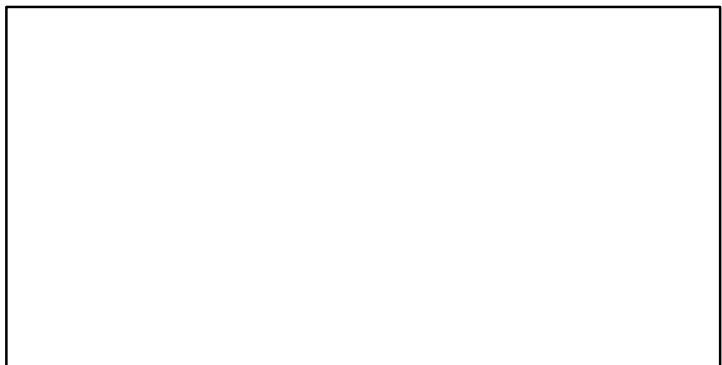
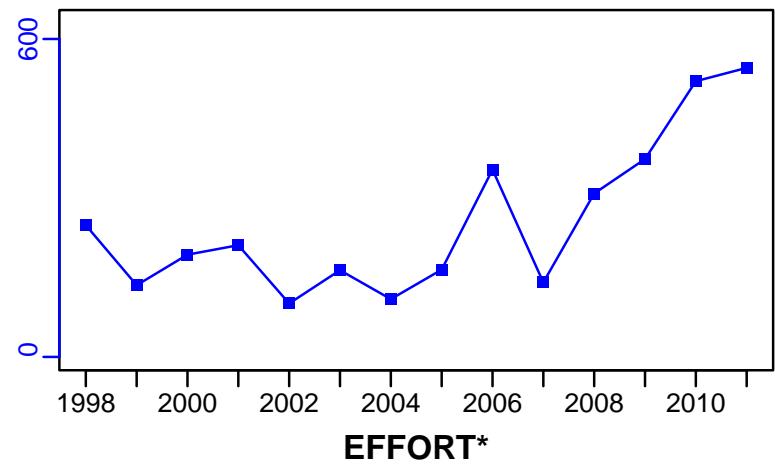
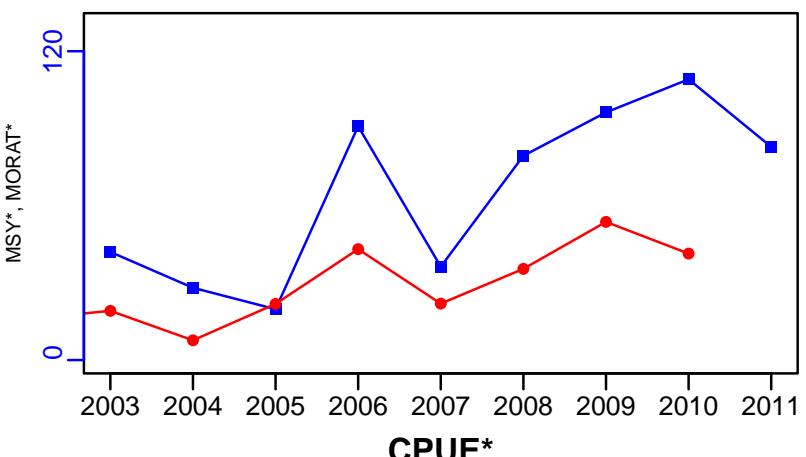
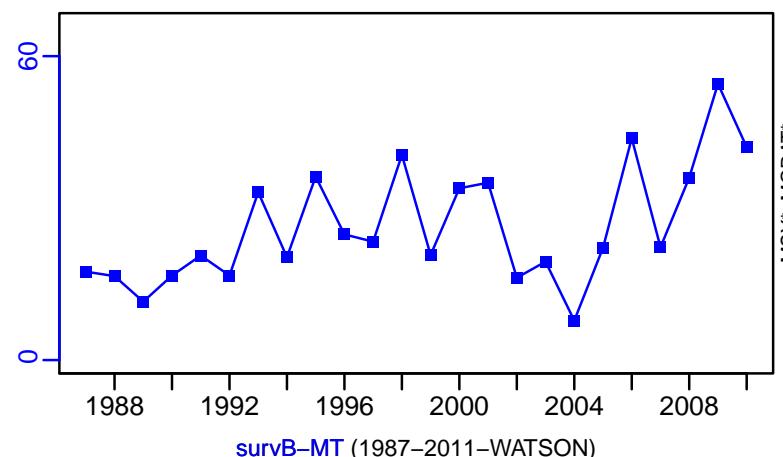


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Sidestripe shrimp Shrimp Management Area FR [SSSHRIMPSMAFR]

TL-MT, TC*, RecC* (1987–2011-WATSON)

TAC-MT, Cpair-MT, Cadv* (1987–2011-WATSON)



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

Aesop shrimp Nunavut/Nunavik East [STRSHRIMPNUNE]

Metadata	
Scientific Name	Pandalus montagui
Current Assess ID	DFO-ARCTIC-STRSHRIMPNUNE-1978-2018-ASHBROOK
Area	Nunavut/Nunavik East
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Arctic Region
Asmts in RAM	2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	150		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Aesop shrimp Nunavut/Nunavik East [STRSHRIMPNUNE]

Kobe MSY*

Kobe MGT*

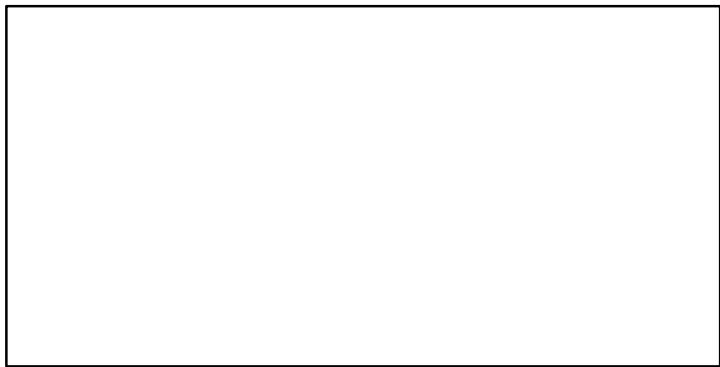
Spawner Recruit*

Production*

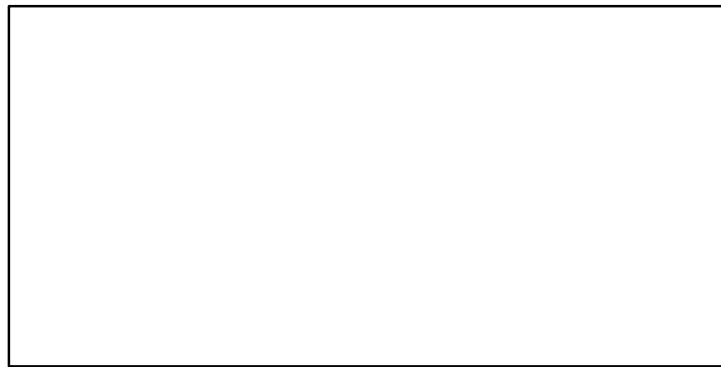
◆ Start Year ♦ End Year * No Data

Aesop shrimp Nunavut/Nunavik East [STRSHRIMPNUNE]

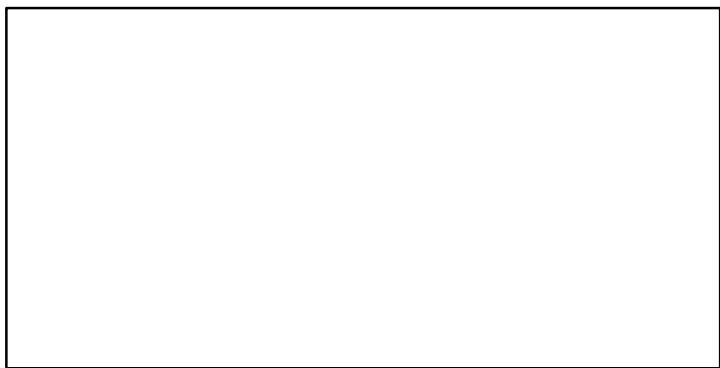
TB*



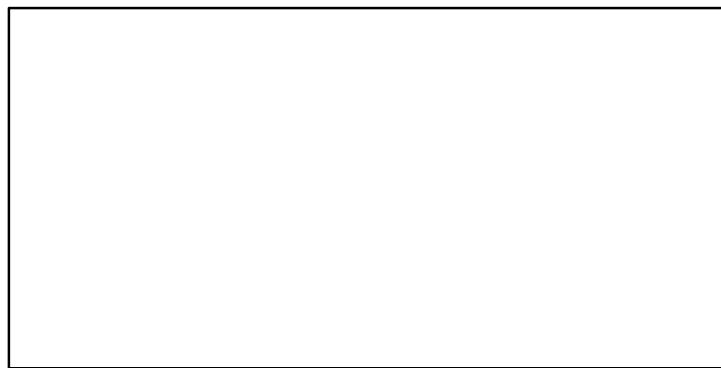
SSB*



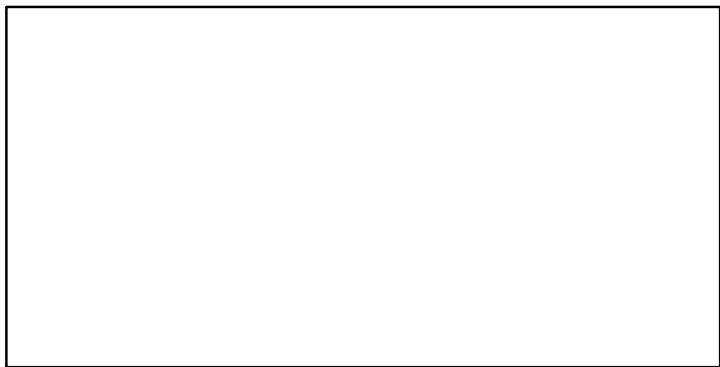
TN *



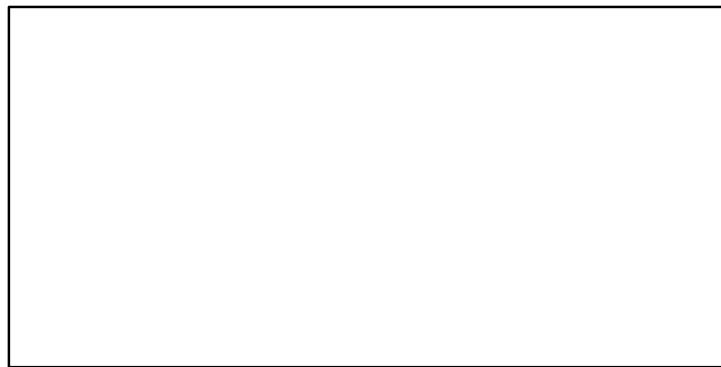
F*



ER*



Recruits*

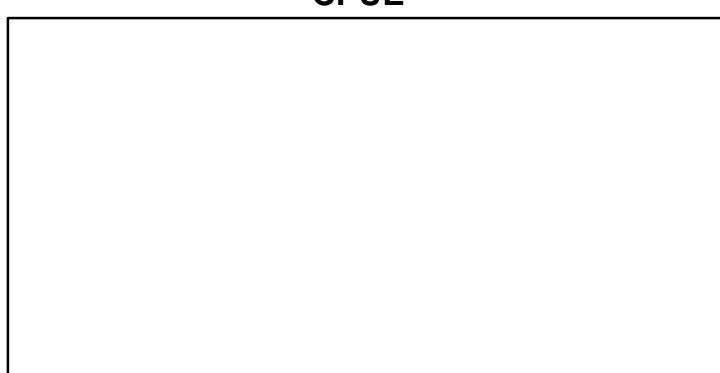
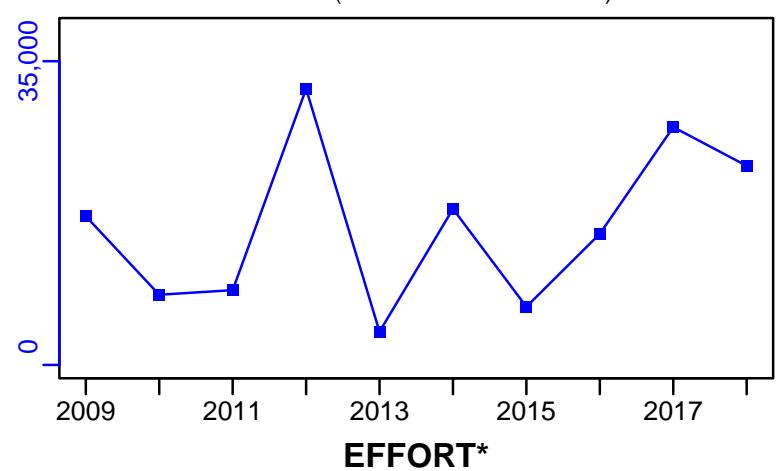
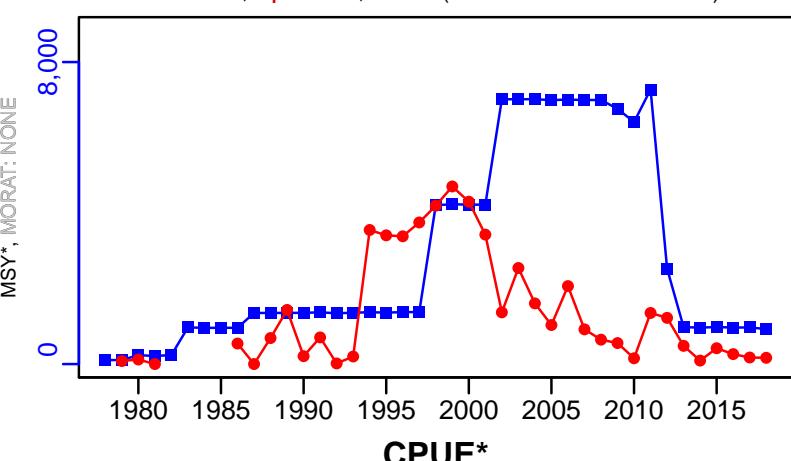
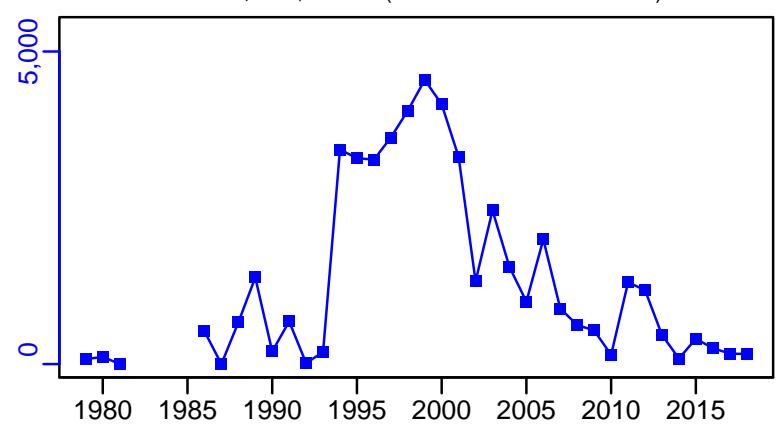


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Aesop shrimp Nunavut/Nunavik East [STRSHRIMPNUNE]

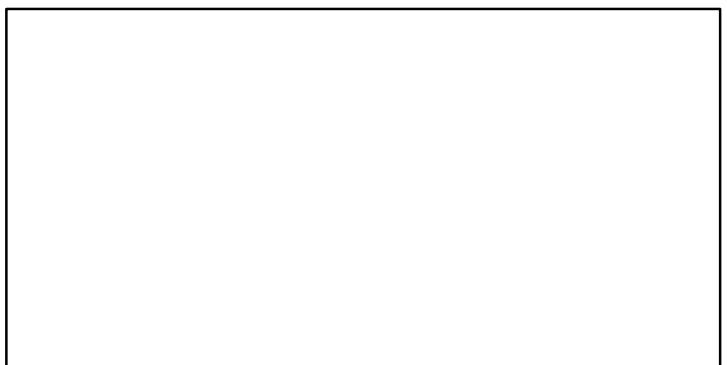
TL-MT, TC*, RecC* (1978–2018–ASHBROOK)

TAC-MT, Cpair-MT, Cadv* (1978–2018–ASHBROOK)



EFFORT*

CPUE*



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

Aesop shrimp Nunavut/Nunavik West [STRSHRIMPNUNW]

Metadata	
Scientific Name	Pandalus montagui
Current Assess ID	DFO-ARCTIC-STRSHRIMPNUNW-1978-2018-ASHBROOK
Area	Nunavut/Nunavik West
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Arctic Region
Asmts in RAM	2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	5530		
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

Aesop shrimp Nunavut/Nunavik West [STRSHRIMPNUNW]

TB*



SSB*



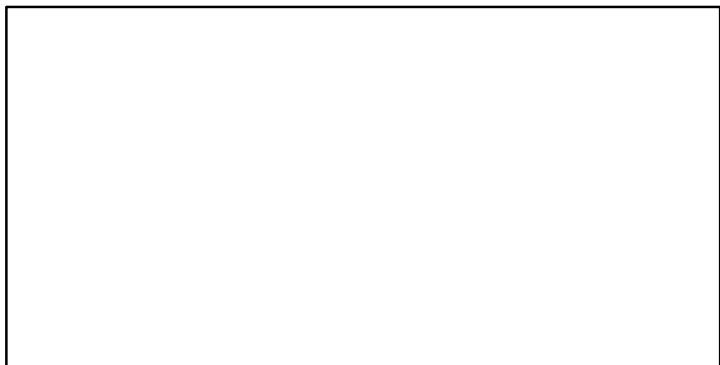
TN *



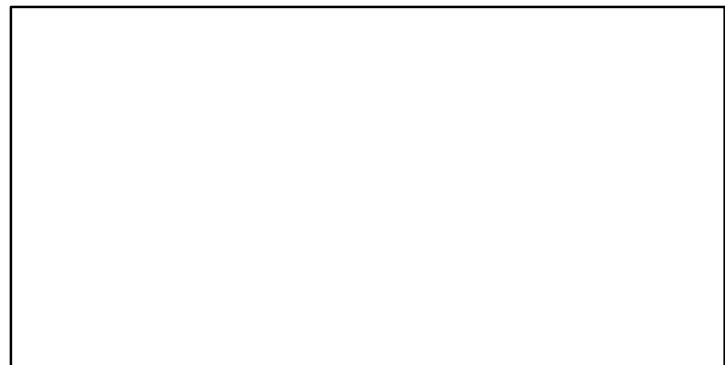
F*



ER*



Recruits*

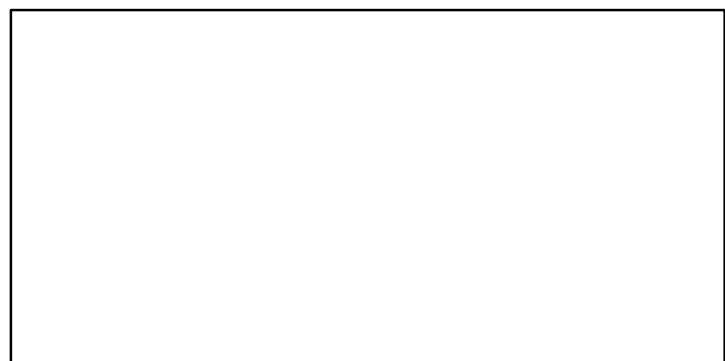
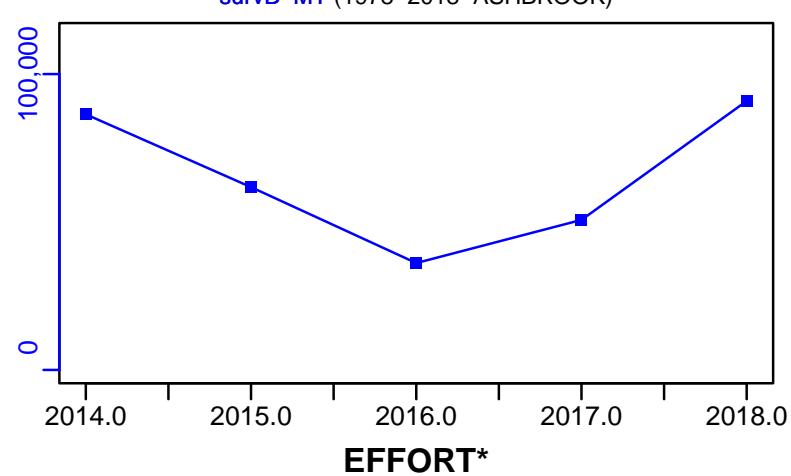
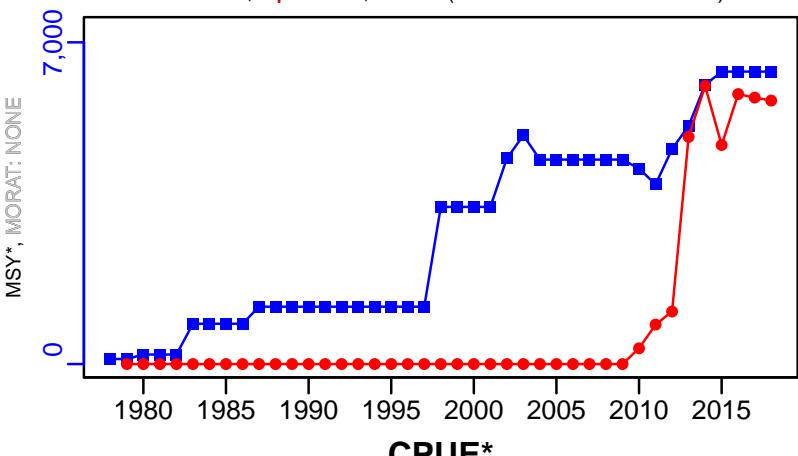
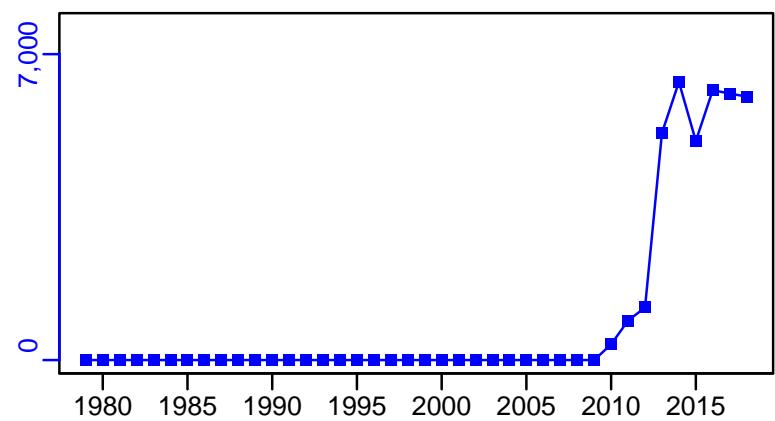


- | | | |
|----------------------|------------------|-----------|
| ■ Listed time series | - - - Target BRP | — Rec-Est |
| - - - MSY-based BRP | - - - Lim BRP | * No Data |

Aesop shrimp Nunavut/Nunavik West [STRSHRIMPNUNW]

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

TAC-MT, Cpair-MT, Cadv* (1978–2018–ASHBROOK)



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

Aesop shrimp Shrimp Fishing Area 4 [STRSHRIMPSFA4]

Metadata	
Scientific Name	Pandalus montagui
Current Assess ID	DFO-NFLD-STRSHRIMPSFA4-2002-2018-ASHBROOK
Area	Shrimp Fishing Area 4
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2018

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	2570		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Aesop shrimp Shrimp Fishing Area 4 [STRSHRIMPSFA4]

Kobe MSY*

Kobe MGT*

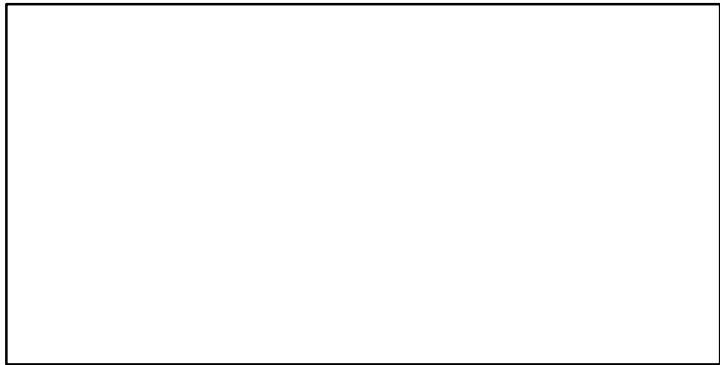
Spawner Recruit*

Production*

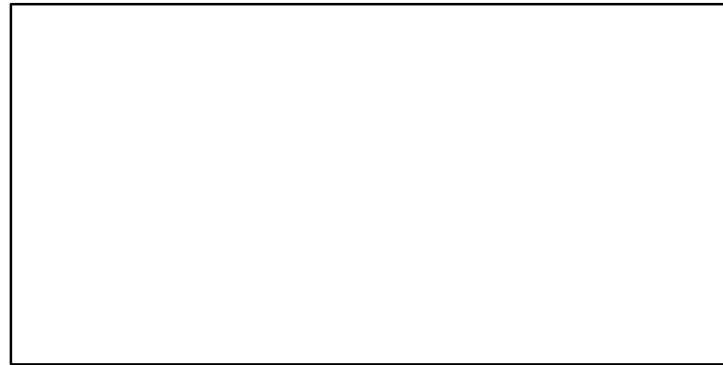
◆ Start Year ♦ End Year * No Data

Aesop shrimp Shrimp Fishing Area 4 [STRSHRIMPSFA4]

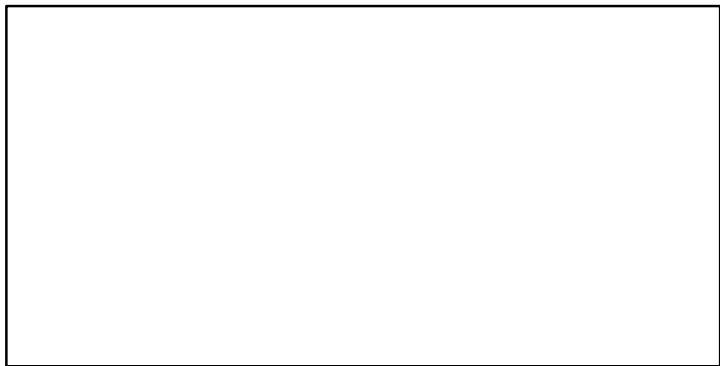
TB*



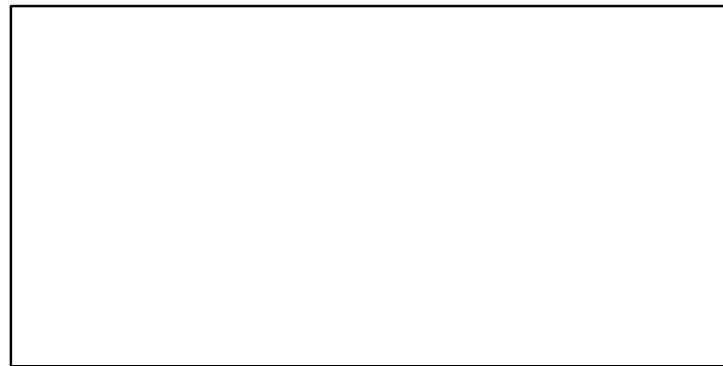
SSB*



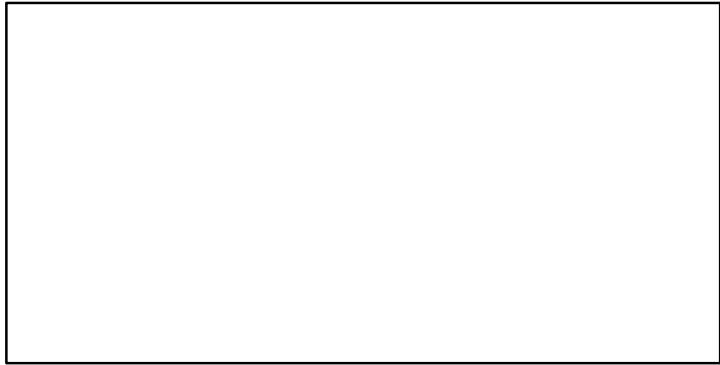
TN *



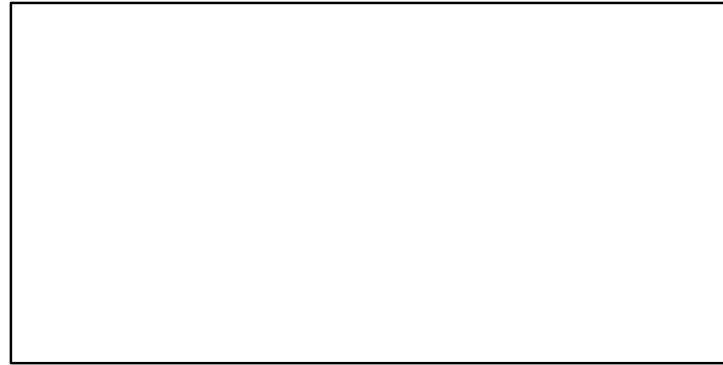
F*



ER*



Recruits*

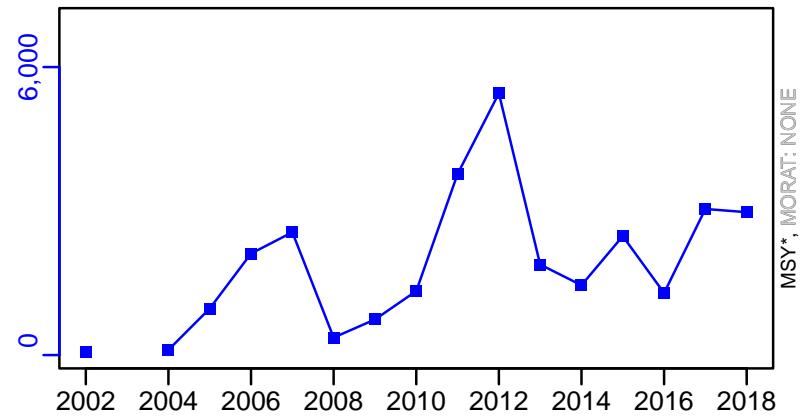


- | | | | | | |
|-------|--------------------|-------|------------|---|---------|
| ■ | Listed time series | - - - | Target BRP | — | Rec-Est |
| - - - | MSY-based BRP | - - - | Lim BRP | * | No Data |

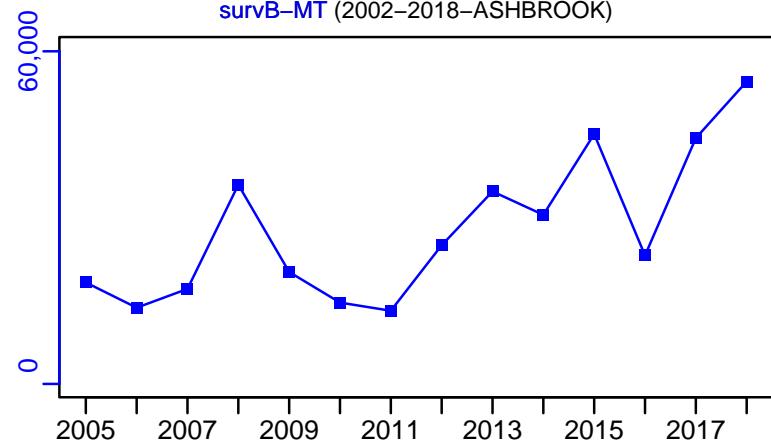
Aesop shrimp Shrimp Fishing Area 4 [STRSHRIMPSFA4]

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

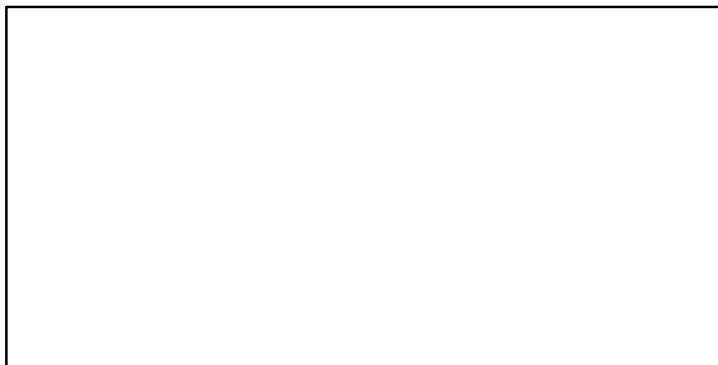
TAC*, Cpair*, Cadv*



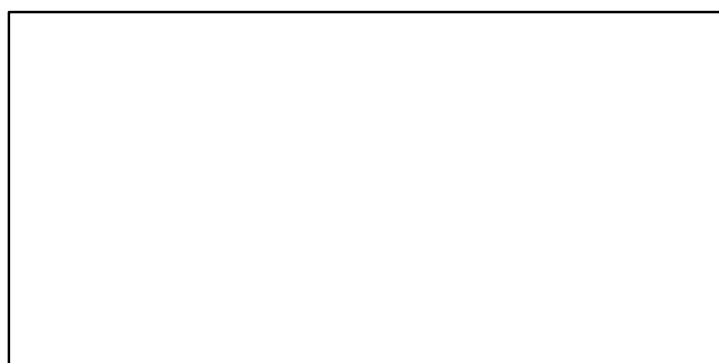
survB-MT (2002–2018-ASHBROOK)



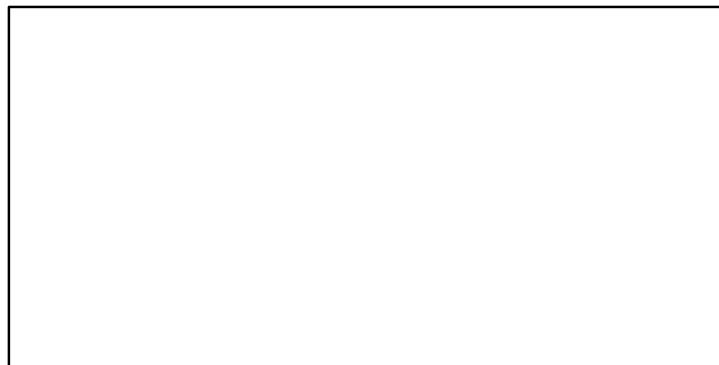
EFFORT*



CPUE*



CdivMSY*



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

White shrimp Gulf of Mexico [WSHRIMPGM]

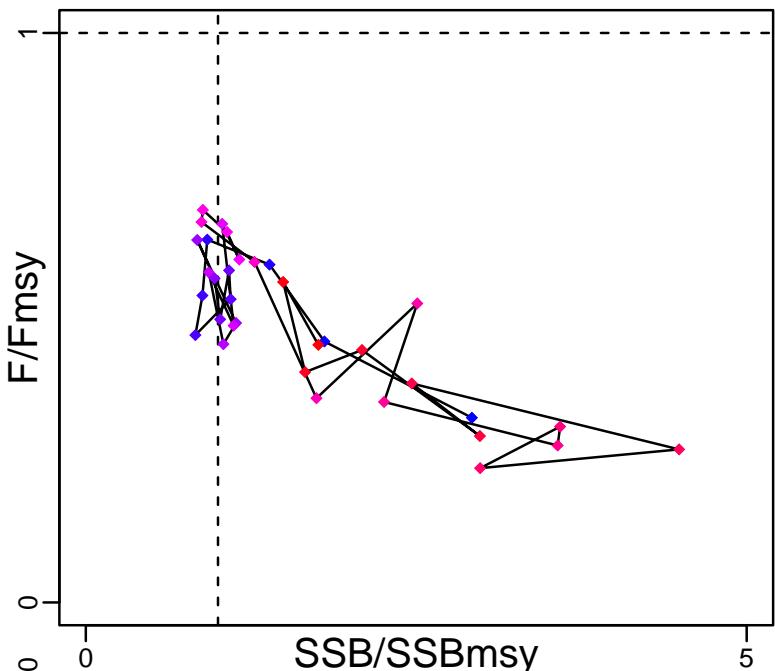
Metadata	
Scientific Name	Litopenaeus setiferus
Current Assess ID	SEFSC-WSHRIMPGM-1984-2017-SISIMP2021
Area	Gulf of Mexico
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2011, 2014, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2017	165,879
Fmsy	Fmsy-1/yr	2017	3.48
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	165,879
Flim	-	-	-
ERlim	-	-	-

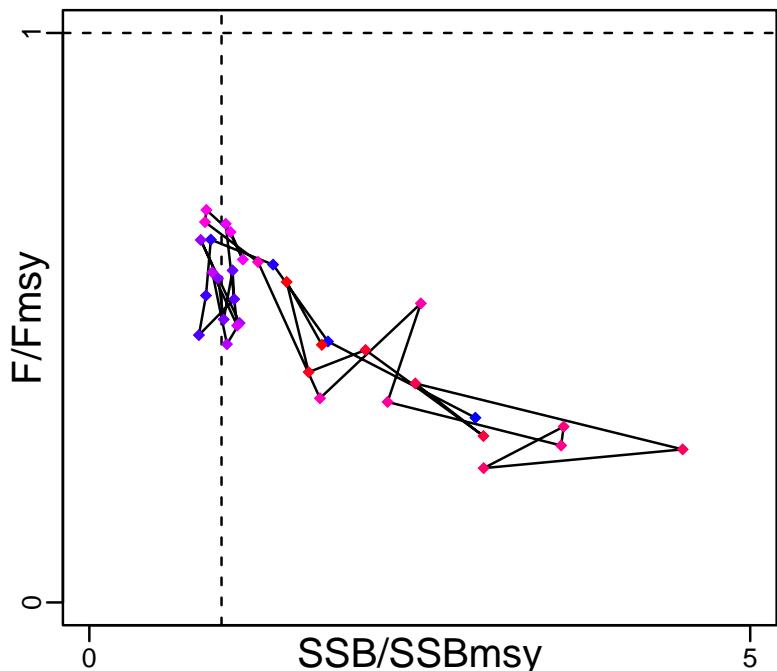
Time Series						
Type	ID	Asmt Year	Curr Value	Sex	Age	
TB	-	-	-	-	-	
SSB	SSB-MT	2017	291,827	-	-	
TN	-	-	-	-	-	
R	R-E00	2017	16,275,764,420	-	-	
F	F-1/yr	2017	1.574	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2017	32,046			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.759			
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.452			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

White shrimp Gulf of Mexico [WSHRIMPGM]

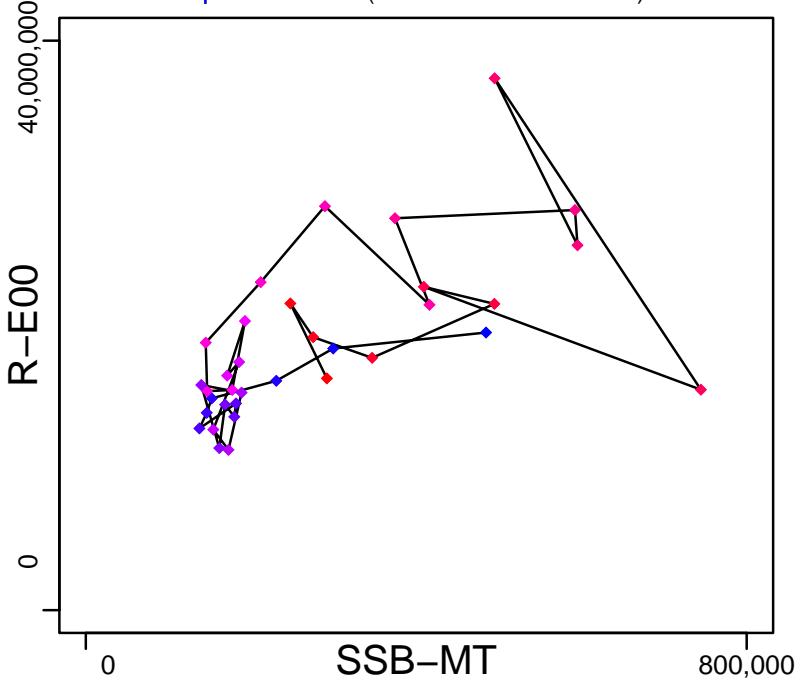
Kobe MSYpref (1984–2017–SISIMP2021)



Kobe MGTpref (1984–2017–SISIMP2021)



Spawner Recruit (1984–2017–SISIMP2021)



Production*



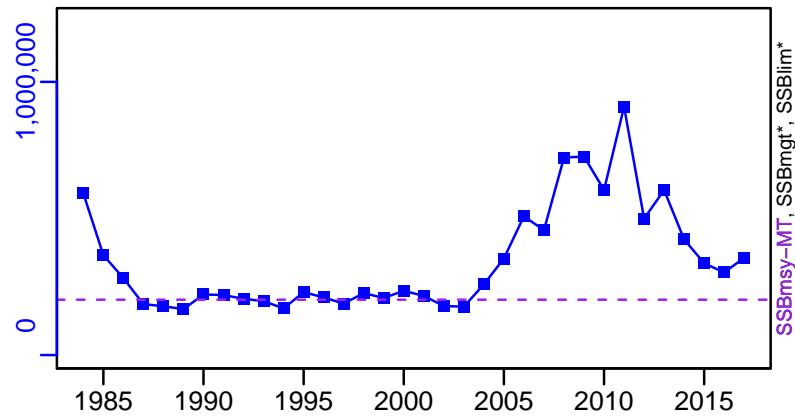
◆ Start Year	◆ End Year	* No Data
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White shrimp Gulf of Mexico [WSHRIMPGM]

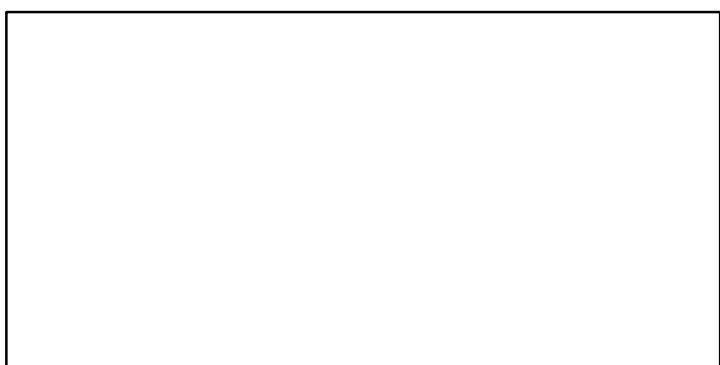
TB*



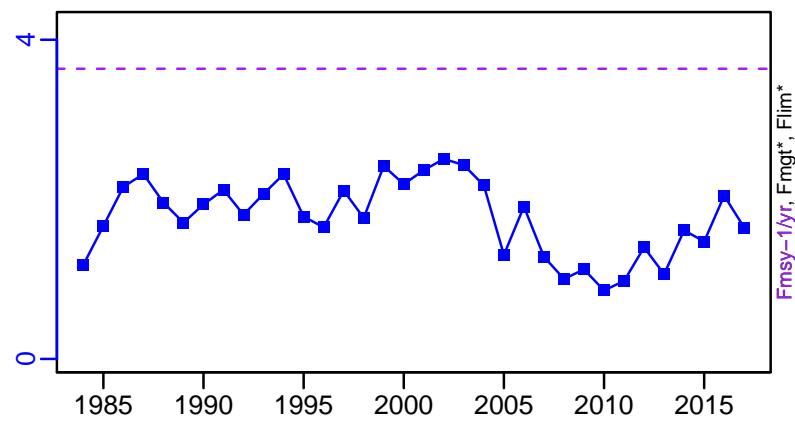
SSB-MT (1984–2017–SISIMP2021)



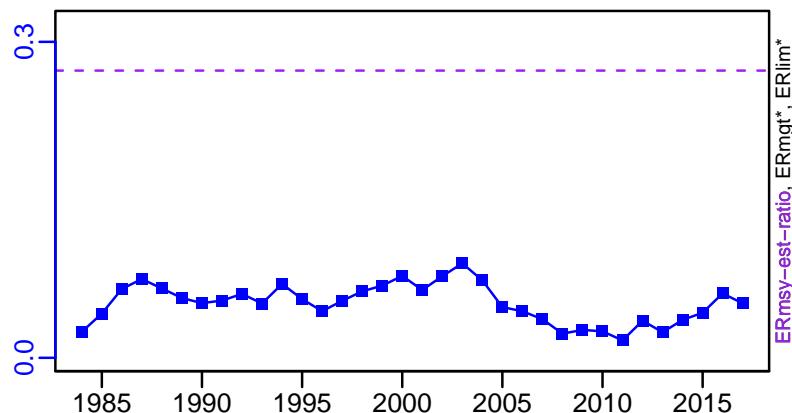
TN *



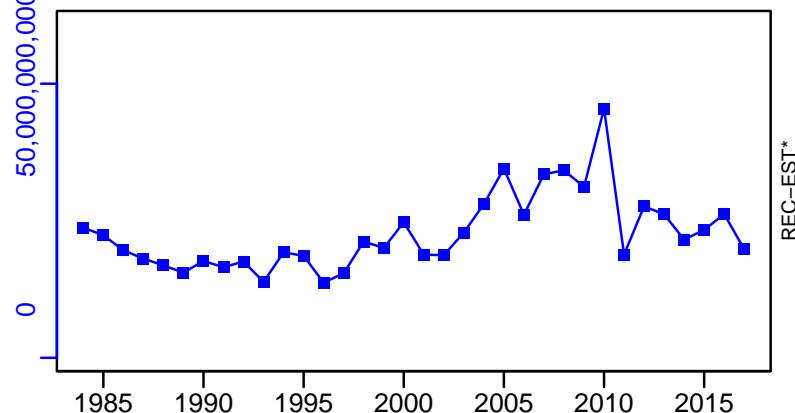
F-1/yr (1984–2017–SISIMP2021)



ER-calc-ratio (1984–2017–SISIMP2021)



R-E00 (1984–2017–SISIMP2021)

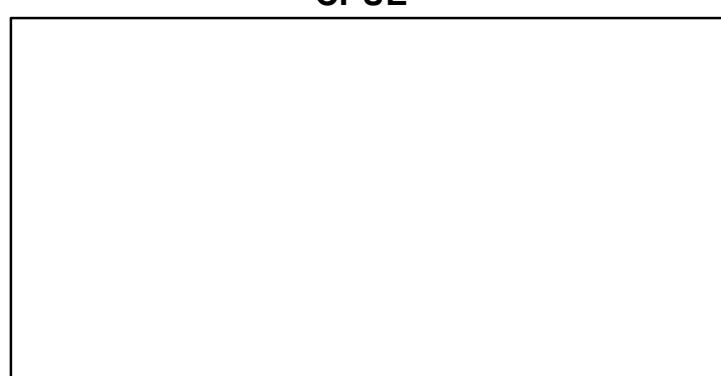
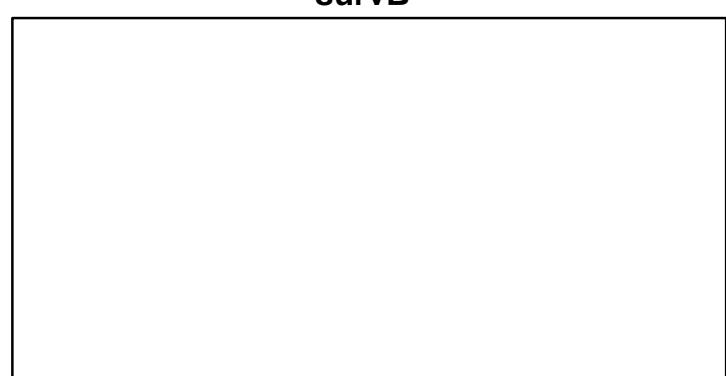
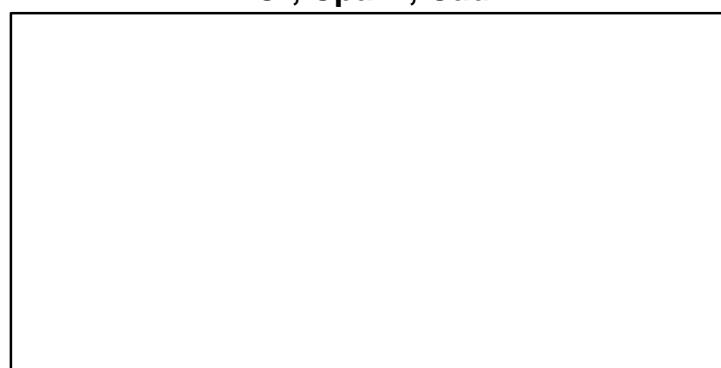
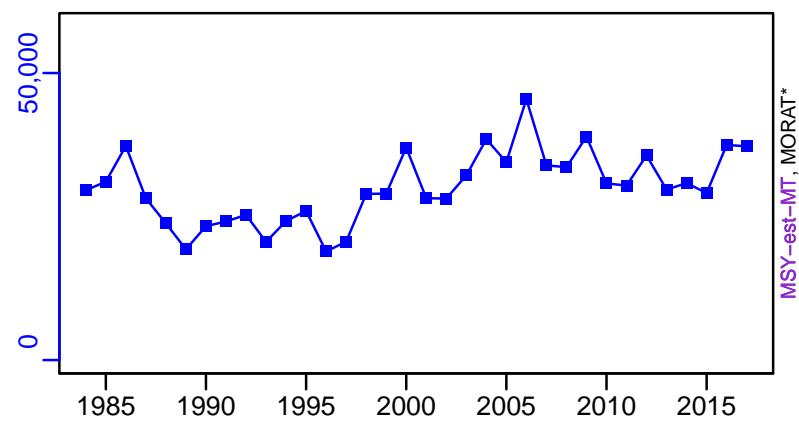


■ Listed time series	— Target BRP	— Rec-Est
- - - MSY-based BRP	--- Lim BRP	* No Data

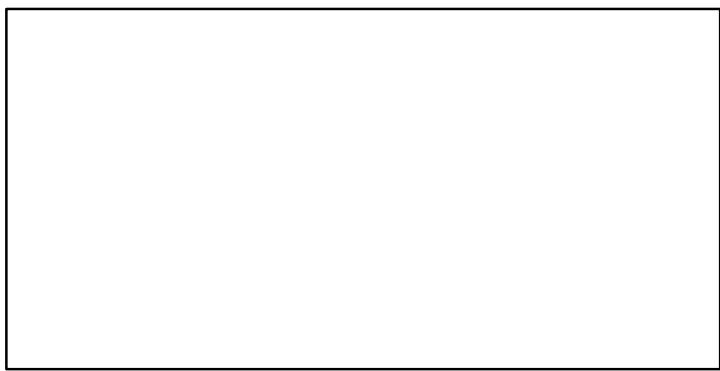
White shrimp Gulf of Mexico [WSHRIMPGM]

TC-MT, TL*, RecC* (1984–2017–SISIMP2021)

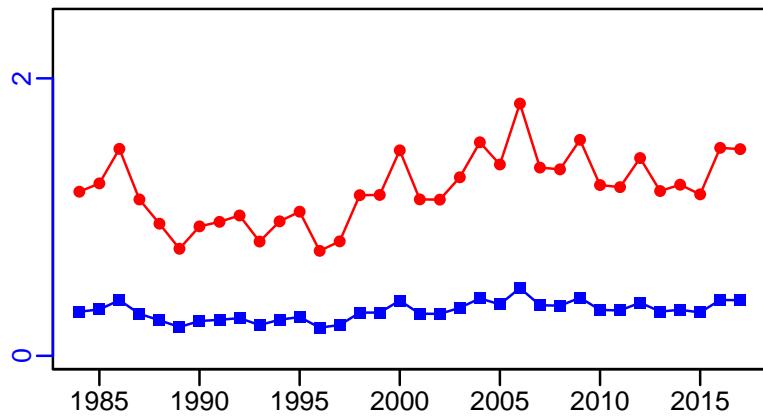
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1984–2017–SISIMP2021)



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