

# Australia Stocks

## v4.25 (Dec-14-2017)

1. Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]
2. Blue Grenadier Southeast Australia [BGRDRSE]
3. Bight redfish Southeast Australia [BIGHTREDSE]
4. Northern Australia brown tiger shrimp [BTSHRIMPNAUST]
5. Deepwater flathead Southeast Australia [DEEPFLATHEADSE]
6. common gemfish Southeast Australia [GEMFISHSE]
7. Northern Australia grooved Tiger Prawn [GTPRAWNNAUST]
8. Jackass morwong Southeast Australia [MORWONGSE]
9. Sea Mullet Queensland and New South Wales [MULLQNSW]
10. New Zealand ling Eastern half of Southeast Australia [NZLINGESE]
11. New Zealand ling Western half of Southeast Australia [NZLINGWSE]
12. Orange roughy Cascade Plateau [OROUGHYCASCADE]
13. Orange roughy Southeast Australia [OROUGHYSE]
14. Patagonian toothfish Macquarie Island [PTOOTHFISHMI]
15. Redfish Eastern Australia [REDFEAUS]
16. Rock Lobster South Australia Northern Zone [RROCKLOBSTERSAUSNZ]
17. Rock Lobster South Australia Southern Zone [RROCKLOBSTERSAUSSZ]
18. Silverfish Southeast Australia [SILVERFISHSE]
19. Snapper Northern Spencer Gulf [SNAPSAUSNSG]
20. Snapper Southern Gulf St. Vincent [SNAPSAUSSGSV]
21. Snapper Southern Spencer Gulf [SNAPSAUSSSG]
22. School whiting Southeast Australia [SWHITSE]
23. Tasmanian giant crab Tasmania [TASGIANTCRABTAS]
24. Tiger flathead Southeast Australia [TIGERFLATSE]
25. Blue Warehou Eastern half of Southeast Australia [WAREHOUSESE]
26. Blue Warehou Western half of Southeast Australia [WAREHOUWSE]

## Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

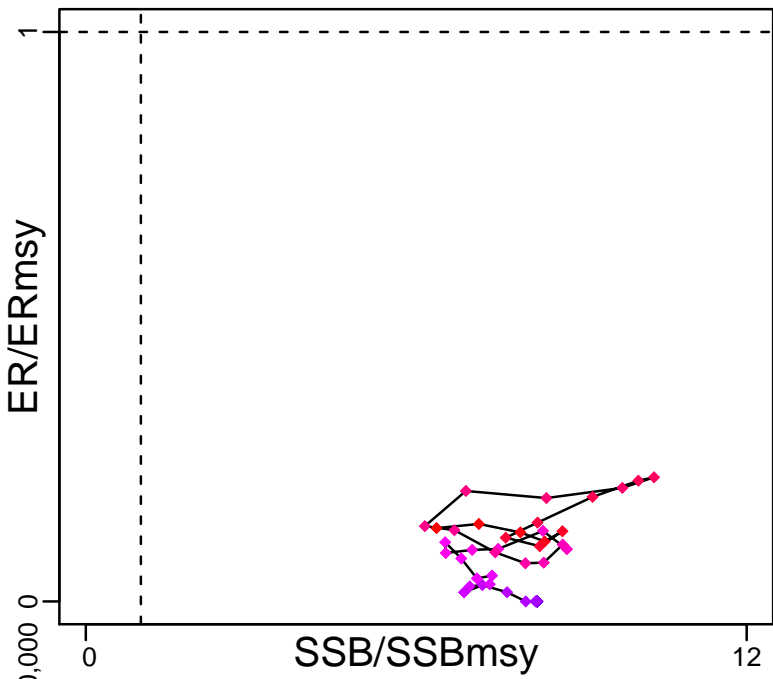
Metadata	
<b>Scientific Name</b>	Macruronus novaezelandiae
<b>Current Assess ID</b>	CSIRO-BGRDRNSWWA-1960-2012-MOESENER
<b>Area</b>	New South Wales to Western Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2012

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2012	4492
<b>Fmsy</b>	Fmsy-1/yr	2012	0.35
<b>ERmsy</b>	ERmsy-conv-ratio	2012	0.43
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2012	17,671
<b>Fmgt</b>	Fmgt-1/yr	2012	0.1
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2012	79,738
<b>SSB0</b>	SSB0-MT	2012	36,815
<b>MSY</b>	MSY-MT	2012	4492
<b>M</b>	M-1/yr	2012	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2012	7363
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

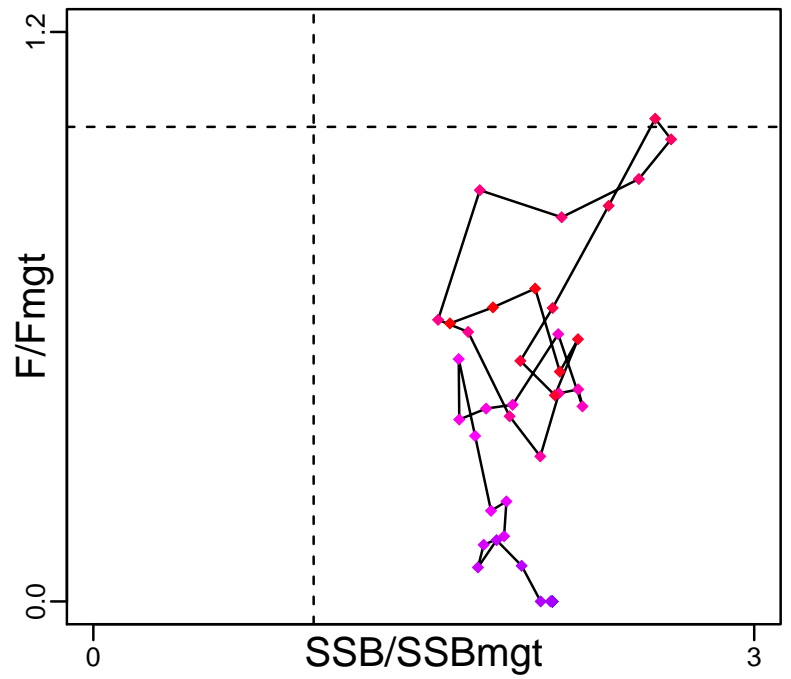
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2012	75,700	-	-
<b>SSB</b>	SSB-MT	2012	28,600	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2012	$7.98 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2012	0	-	-
<b>ER</b>	ER-ratio	2012	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2012	4000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2012	6.37		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2012	0.16		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2012	0.13		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2012	1.62		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2012	0.59		
<b>ER/ERmgt</b>	-	-	-		

# Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

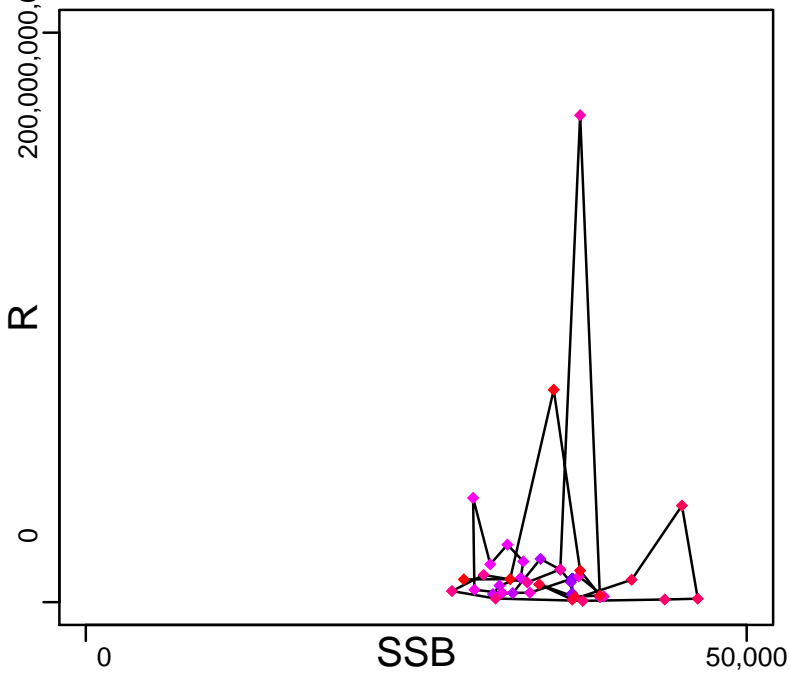
Kobe MSYpref (1960–2012–MOESENEDER)



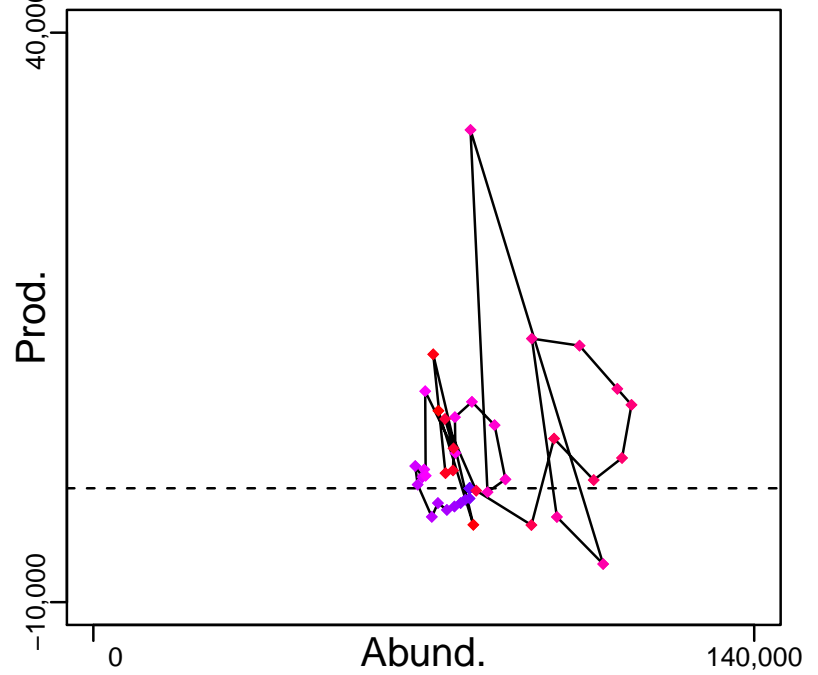
Kobe MGTpref (1960–2012–MOESENEDER)



Spawner Recruit (1960–2012–MOESENEDER)



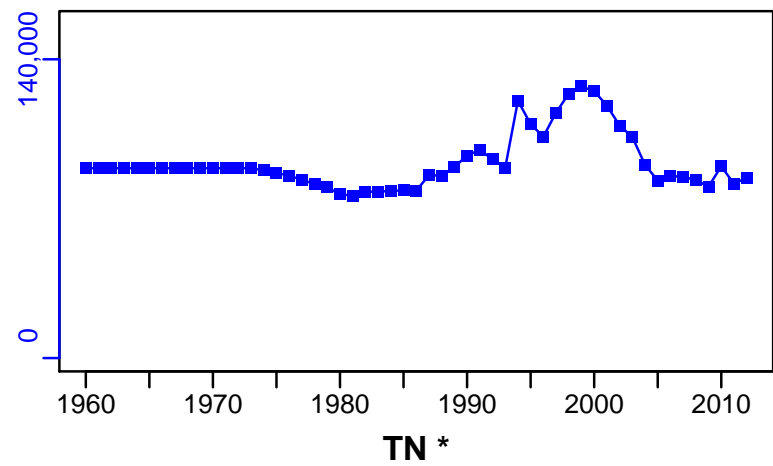
Production (1960–2012–MOESENEDER)



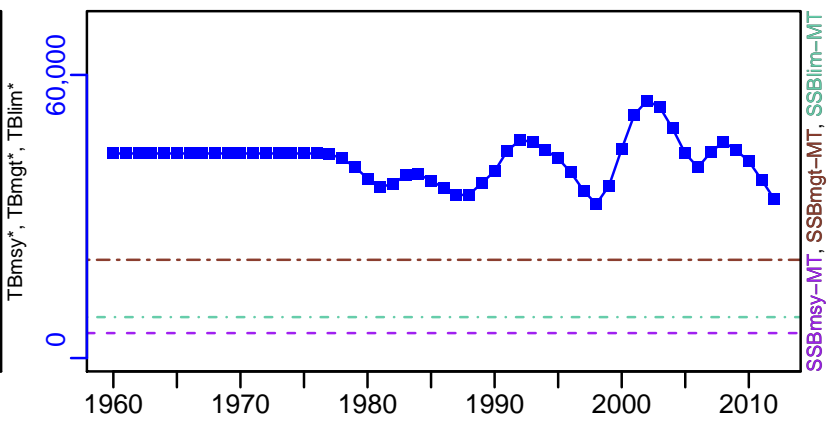
◆ Start Year ◆ End Year \* No Data

# Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

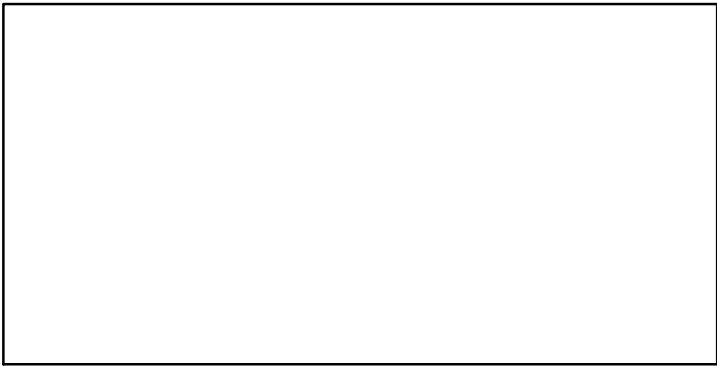
TB-MT (1960-2012-MOESENER)



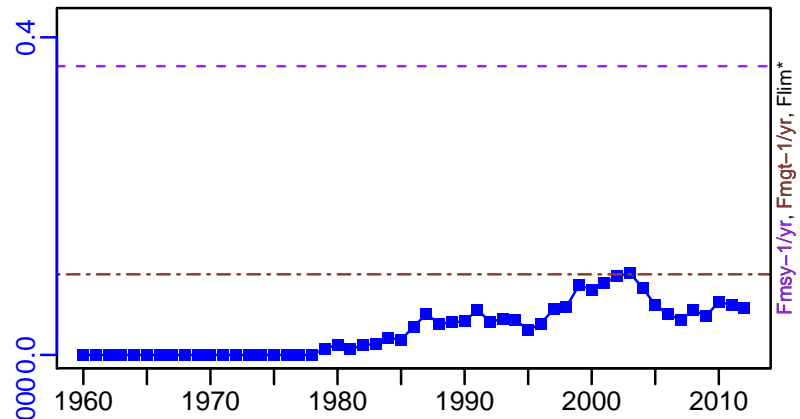
SSB-MT (1960-2012-MOESENER)



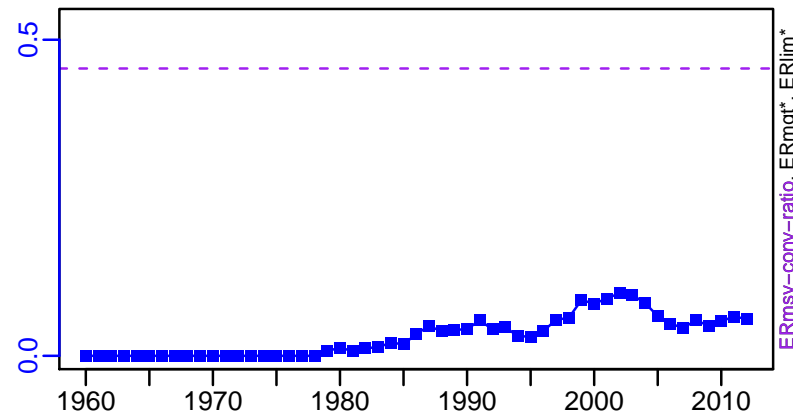
TN \*



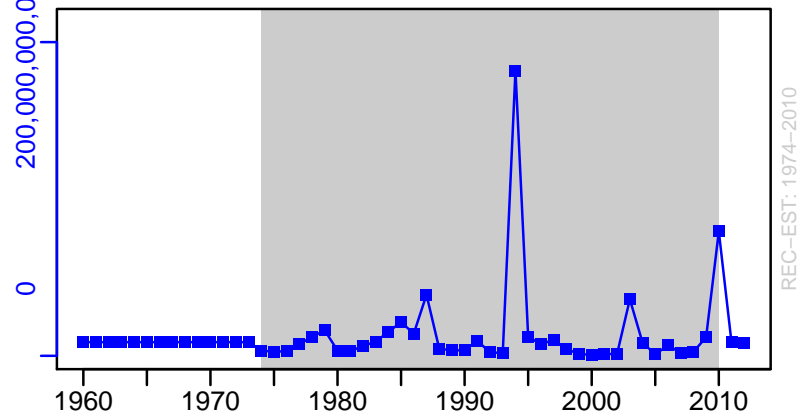
F-1/yr (1960-2012-MOESENER)



ER-ratio (1960-2012-MOESENER)



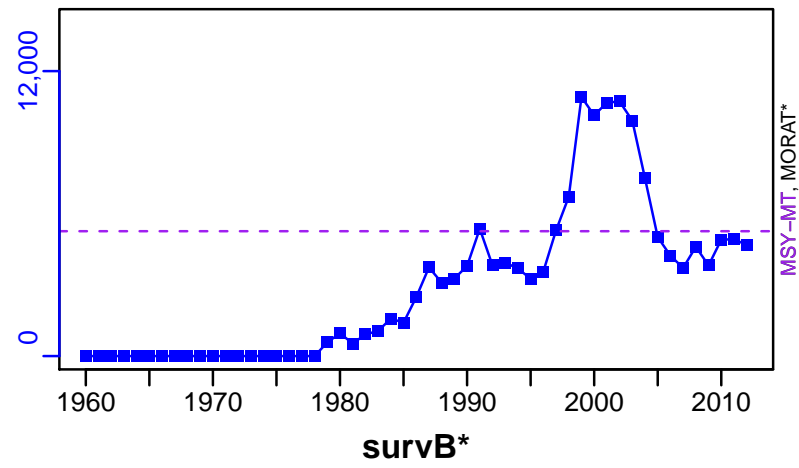
R-E00 (1960-2012-MOESENER)



# Blue grenadier New South Wales to Western Australia [BGRDRNSWWA]

TL-MT, TC\*, RecC\* (1960-2012-MOESENER)

TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*

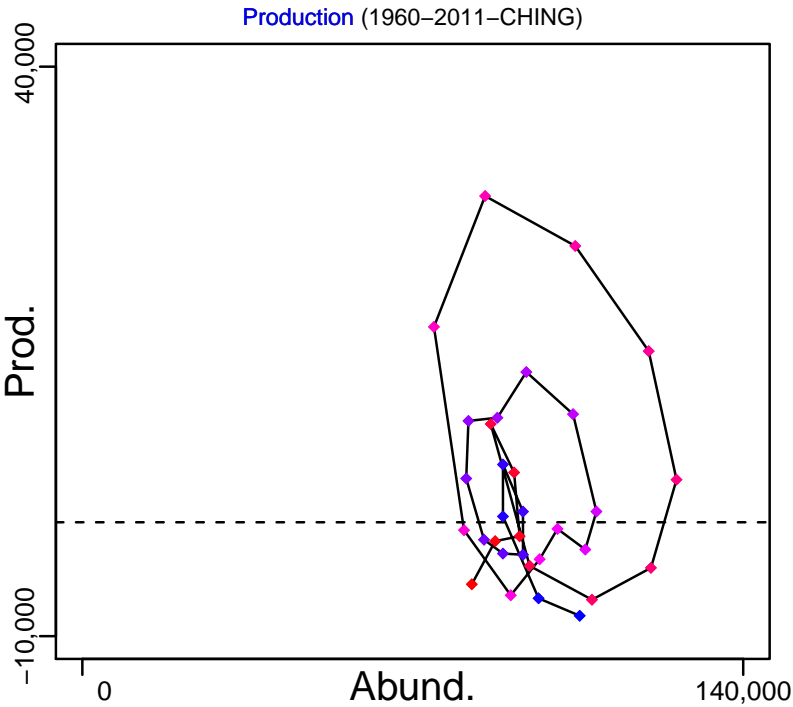
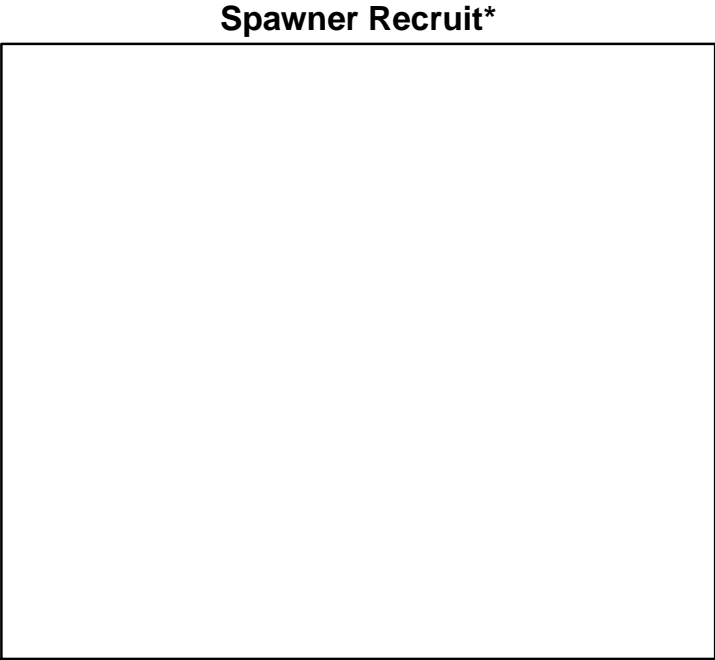
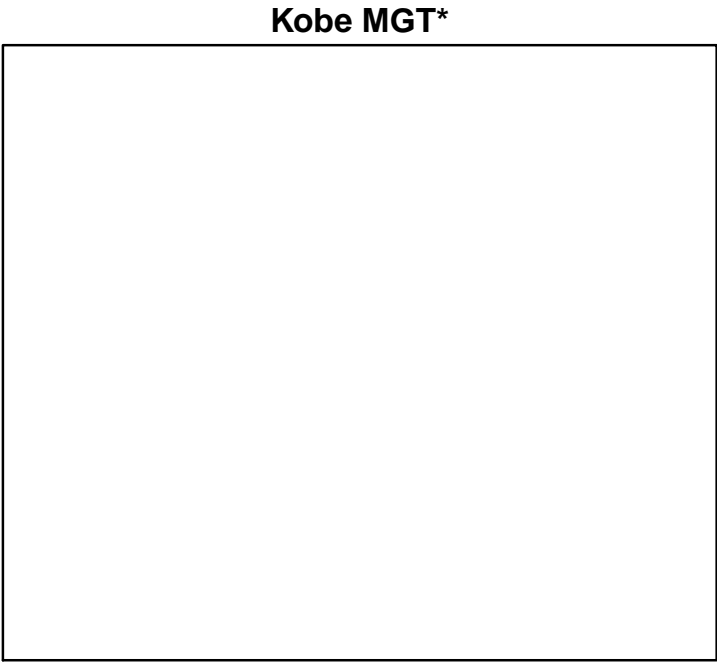


## Blue Grenadier Southeast Australia [BGRDRSE]

Metadata	
<b>Scientific Name</b>	Macruronus novaezelandiae
<b>Current Assess ID</b>	ABARES-BGRDRSE-1960-2011-CHING
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Australian Bureau of Agricultural and Resource Economics and Sciences
<b>Asmts in RAM</b>	2011

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	30,900	-	4+
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0	-	-
ER	ER-ratio	2011	0	-	-
TC	TC-MT	2011	4220		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



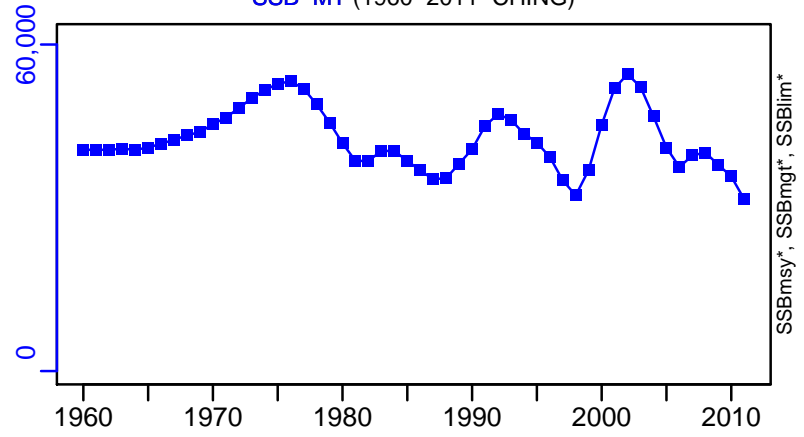
◆ Start Year ◆ End Year \* No Data

# Blue Grenadier Southeast Australia [BGRDRSE]

TB\*



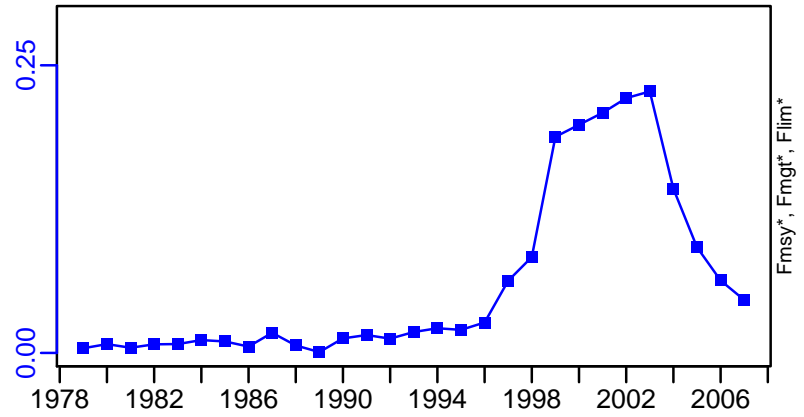
SSB-MT (1960–2011–CHING)



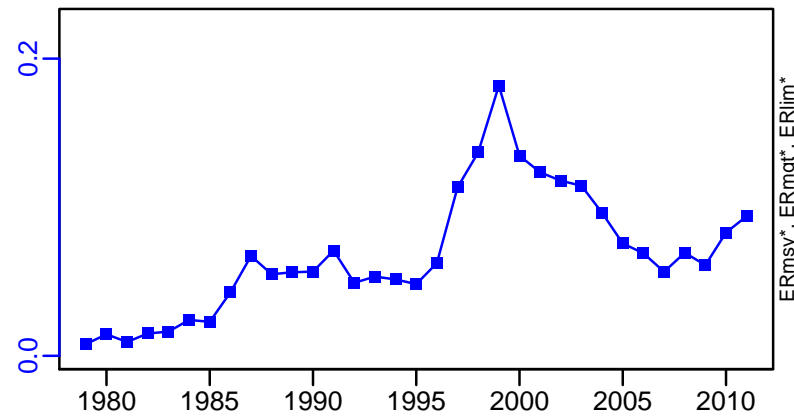
TN \*



F-1/yr (1960–2011–CHING)



ER-ratio (1960–2011–CHING)



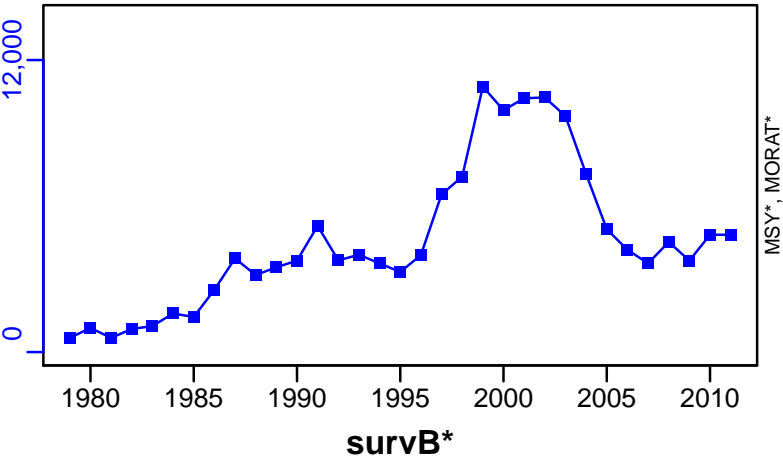
Recruits\*





Blue Grenadier Southeast Australia [BGRDRSE]

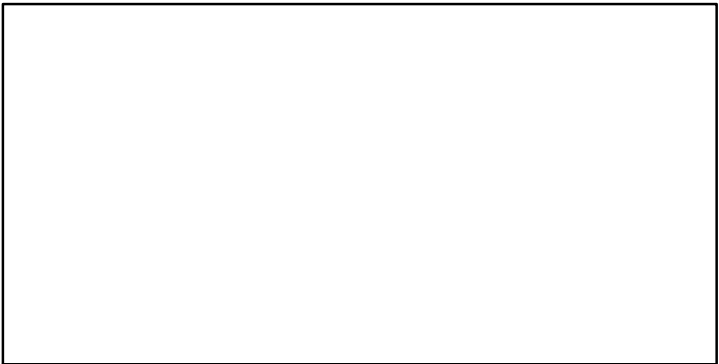
TC-MT, TL\*, RecC\* (1960-2011-CHING)



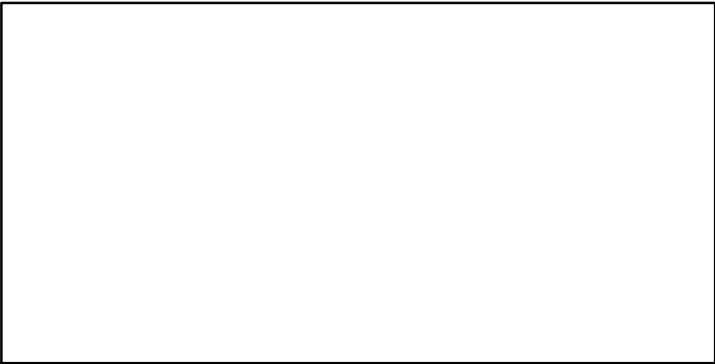
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Bight redfish Southeast Australia [BIGHTREDSE]

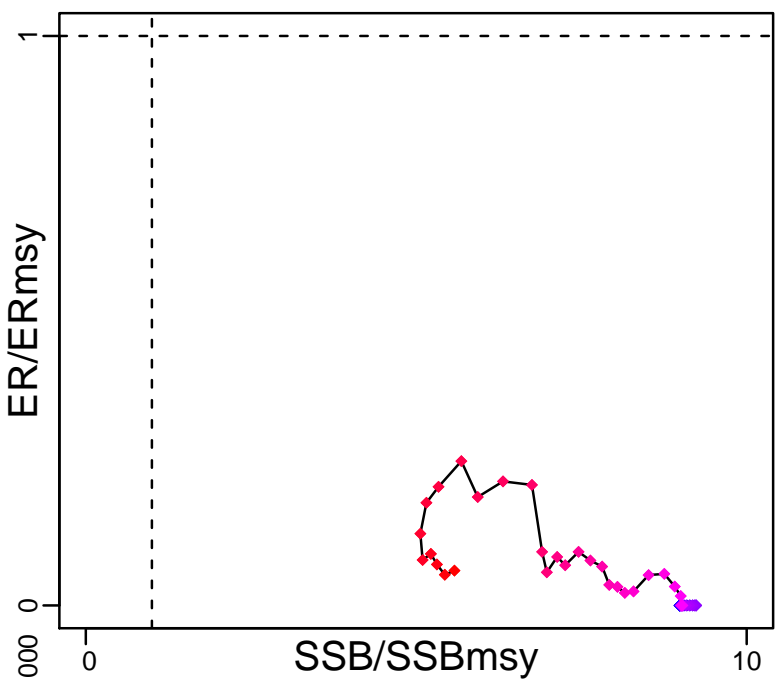
Metadata	
<b>Scientific Name</b>	Centroberyx gerrardi
<b>Current Assess ID</b>	CSIRO-BIGHTREDSE-1960-2014-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	625
<b>Fmsy</b>	Fmsy-1/yr	2014	0.5
<b>ERmsy</b>	ERmsy-ratio	2007	0.04
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2014	2302
<b>Fmgt</b>	Fmgt-1/yr	2014	0.06
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	16,426
<b>SSB0</b>	SSB0-MT	2014	5614
<b>MSY</b>	MSY-MT	2014	625
<b>M</b>	M-1/yr	2014	0.11
<b>TBlim</b>	TBlim-MT	2007	6767
<b>SSBlim</b>	SSBlim-MT	2014	1123
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

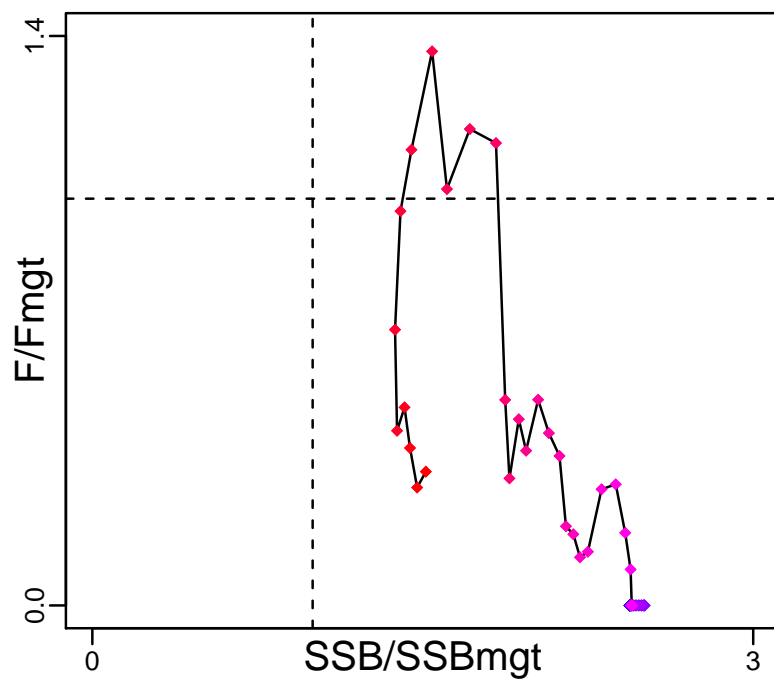
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	11,900	-	-
<b>SSB</b>	SSB-MT	2014	3480	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$4.79 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2014	0	-	-
<b>ER</b>	ER-ratio	2014	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2014	238		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2014	5.58		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	0.04		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2007	1.07		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2014	1.51		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.33		
<b>ER/ERmgt</b>	-	-	-		

# Bight redfish Southeast Australia [BIGHTREDSE]

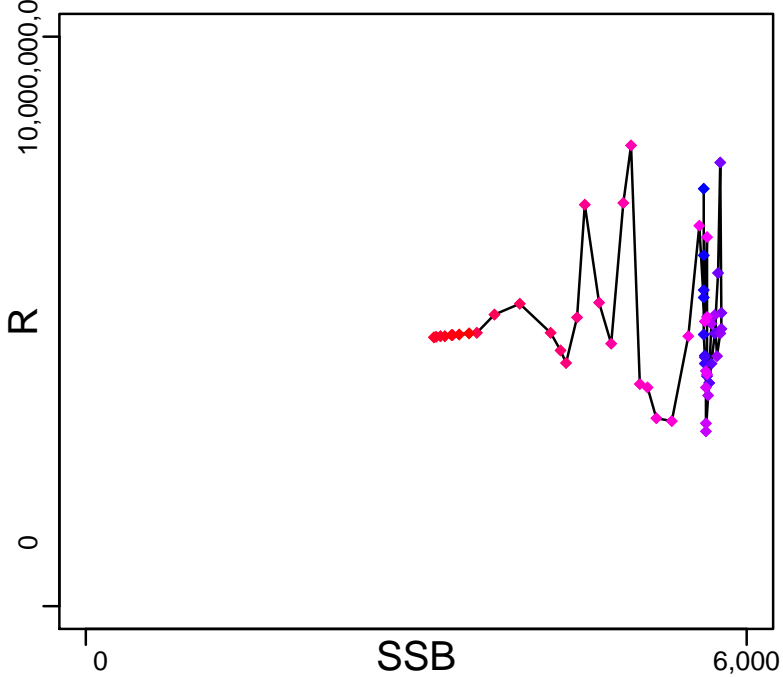
Kobe MSYpref (1960–2014–MOESENEDER)



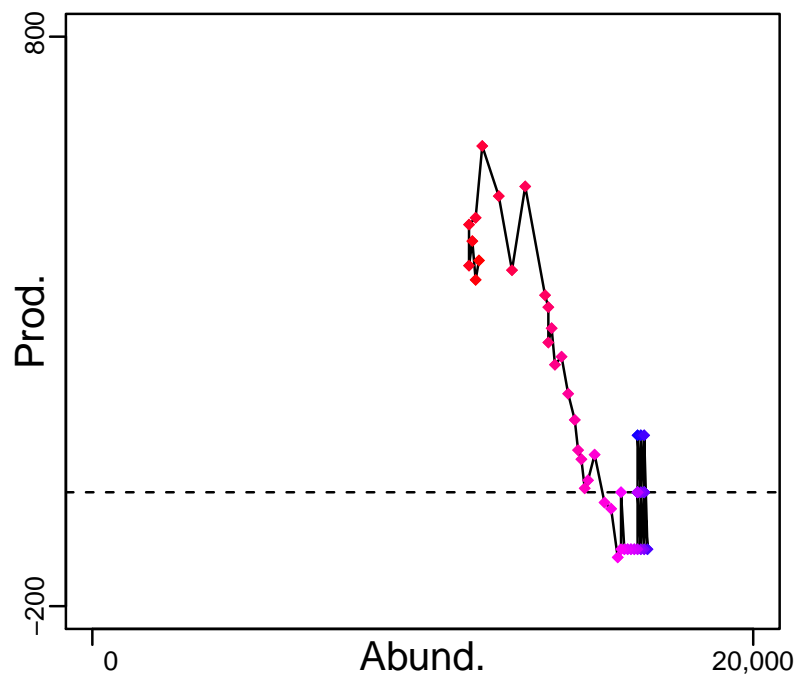
Kobe MGTpref (1960–2014–MOESENEDER)



Spawner Recruit (1960–2014–MOESENEDER)



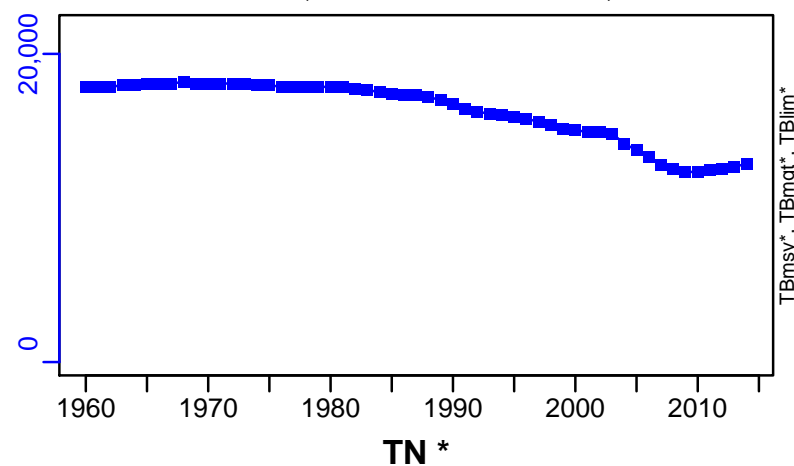
Production (1960–2014–MOESENEDER)



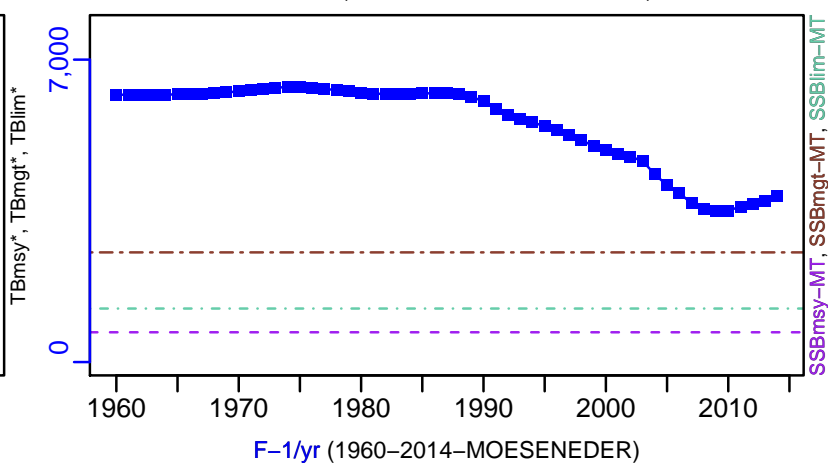
◆ Start Year ◆ End Year \* No Data

# Bight redfish Southeast Australia [BIGHTREDSE]

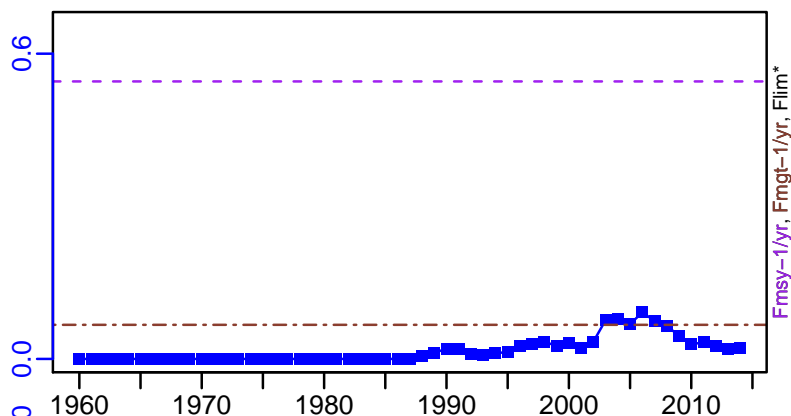
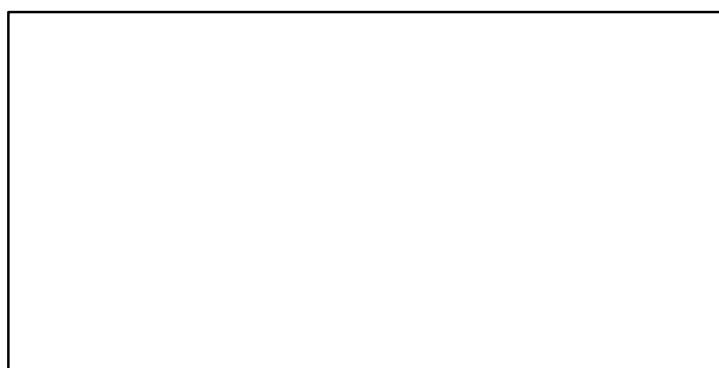
TB-MT (1960–2014–MOESENEDER)



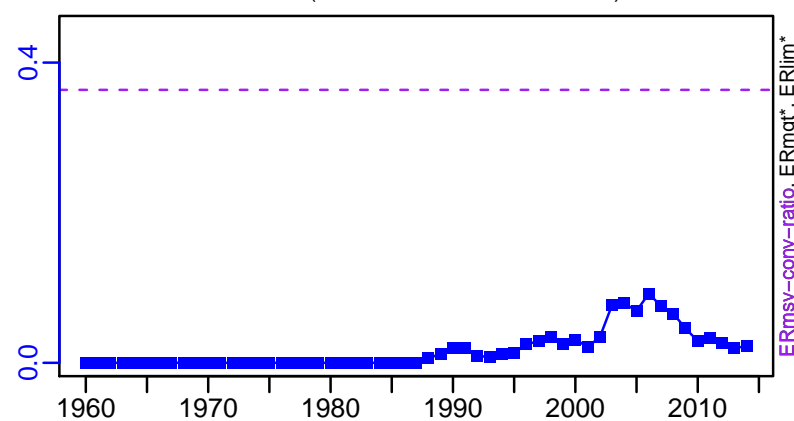
SSB-MT (1960–2014–MOESENEDER)



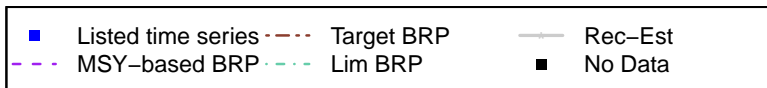
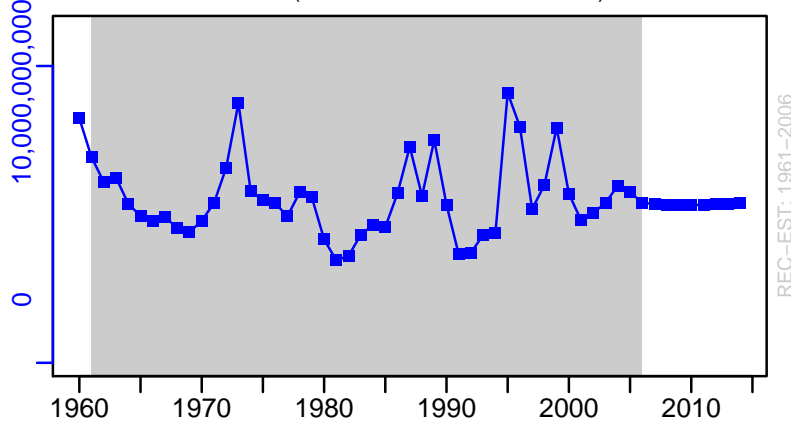
F-1/yr (1960–2014–MOESENEDER)



ER-ratio (1960–2014–MOESENEDER)

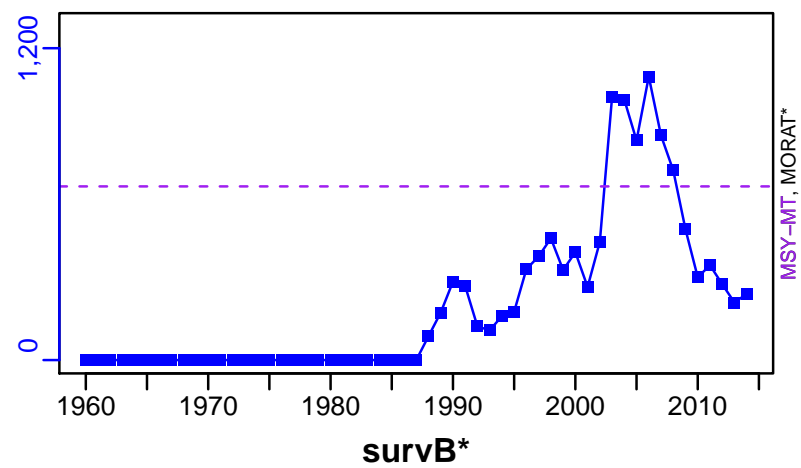


R-E00 (1960–2014–MOESENEDER)



# Bight redfish Southeast Australia [BIGHTREDSE]

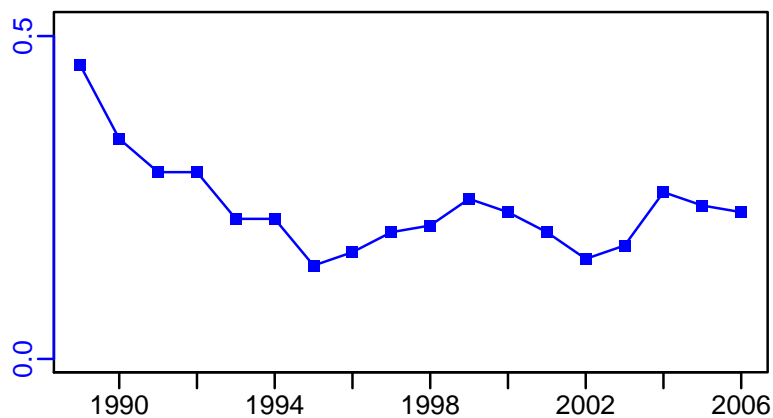
TL-MT, TC\*, RecC\* (1960-2014-MOESENER)



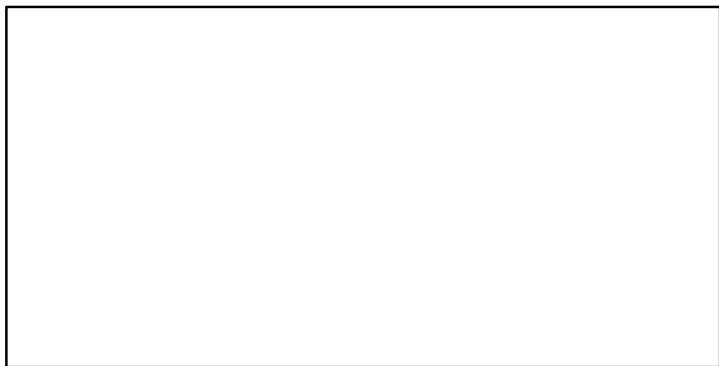
TAC\*, Cpair\*, Cadv\*



CPUEstand-C/E (1958-2007-FULTON)



EFFORT\*



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

## Northern Australia brown tiger shrimp [BTSHRIMPNAUST]

Metadata	
<b>Scientific Name</b>	Penaeus esculentus
<b>Current Assess ID</b>	CSIRO-BTSHRIMPNAUST-1970-2006-FULTON
<b>Area</b>	Northern Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	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	SSB-relative	2006	2	-	-
TN	-	-	-	-	-
R	R-relative	2006	231	-	-
F	F-1/yr	2006	0	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2006	550		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern Australia brown tiger shrimp [BTSHRIMPNAUST]

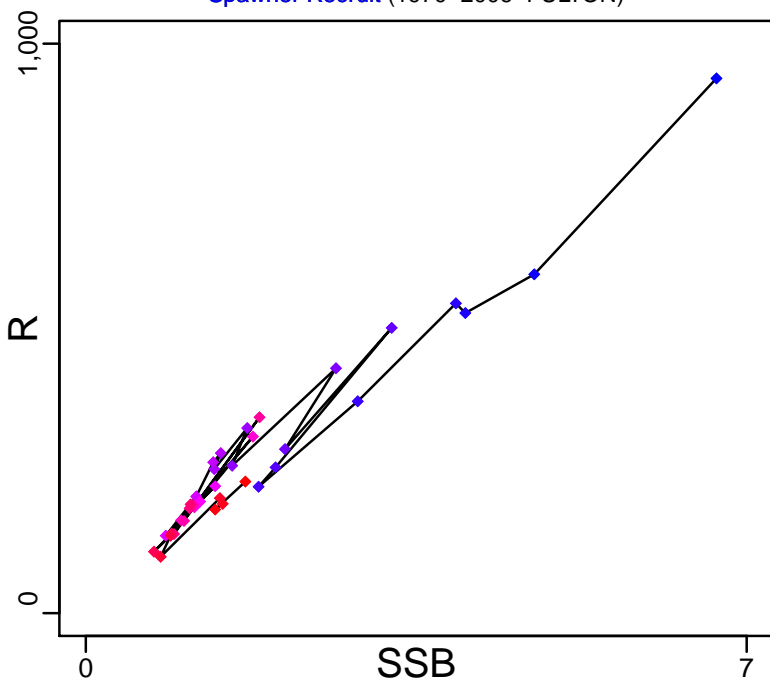
Kobe MSY\*



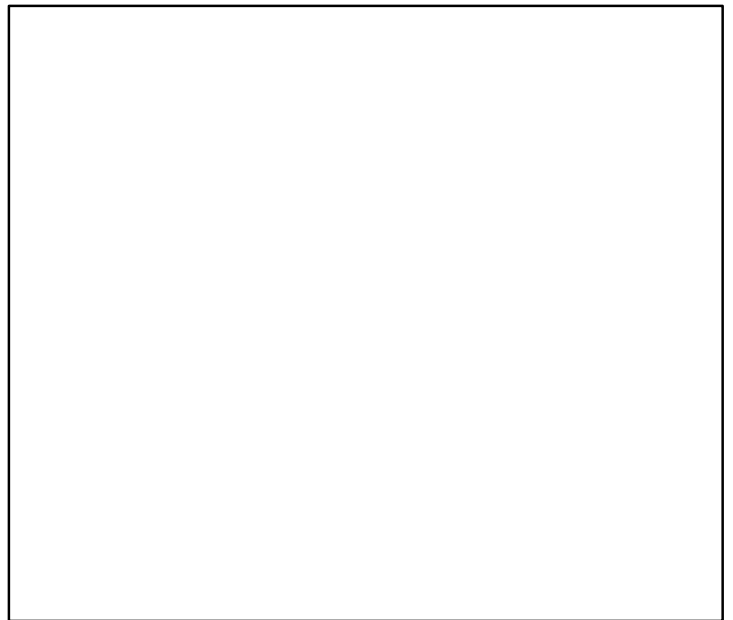
Kobe MGT\*



Spawner Recruit (1970–2006–FULTON)



Production\*



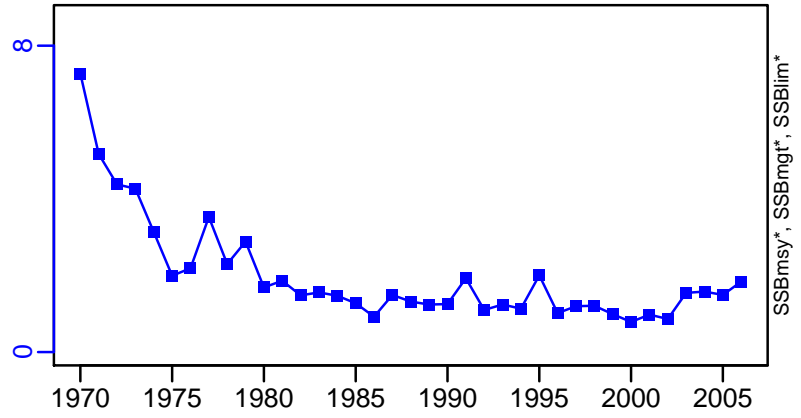
◆ Start Year ◆ End Year \* No Data

# Northern Australia brown tiger shrimp [BTSHRIMPNAUST]

TB\*



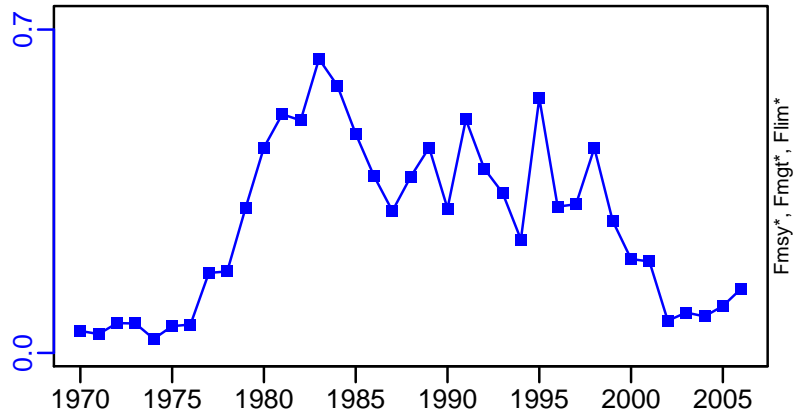
SSB-relative (1970–2006–FULTON)



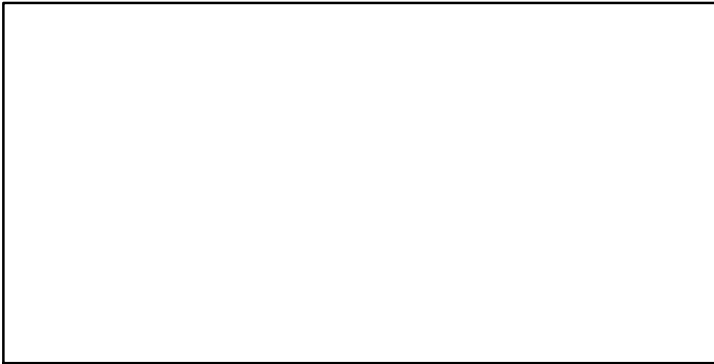
TN \*



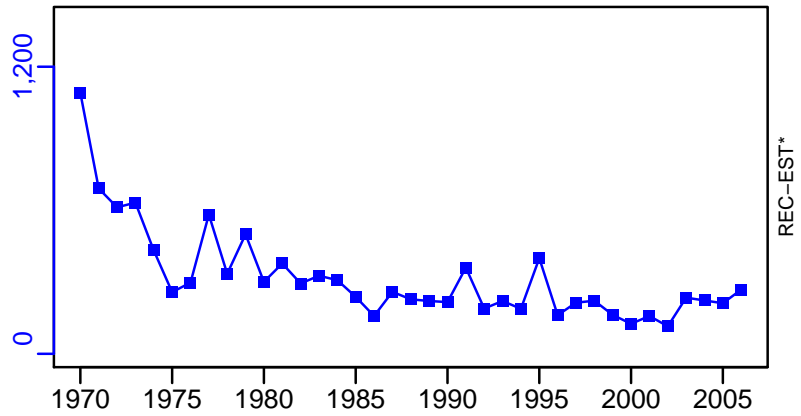
F-1/yr (1970–2006–FULTON)



ER\*



R-relative (1970–2006–FULTON)

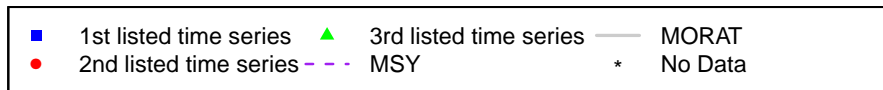
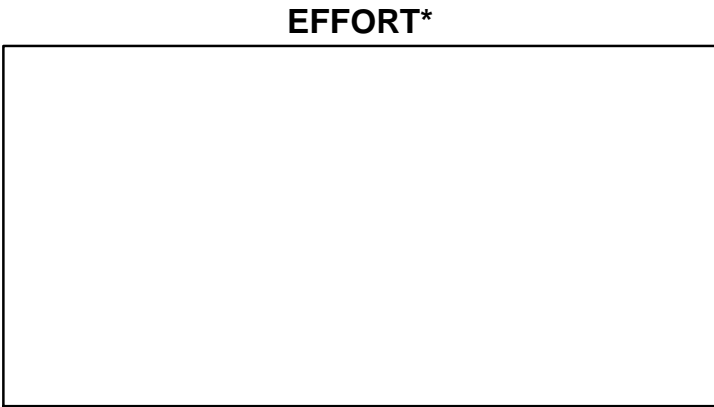
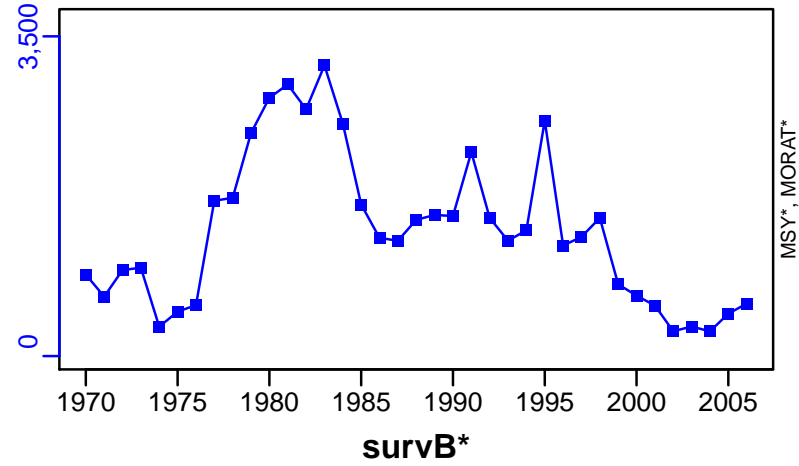




# Northern Australia brown tiger shrimp [BTSHRIMPNAUST]

TL-MT, TC\*, RecC\* (1970-2006-FULTON)

TAC\*, Cpair\*, Cadv\*



## Deepwater flathead Southeast Australia [DEEPFLATHEADSE]

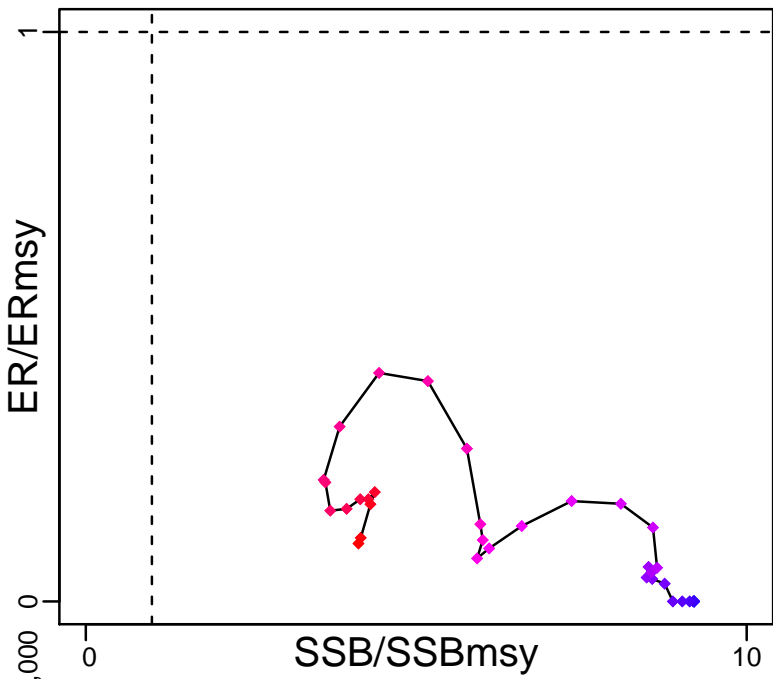
Metadata	
<b>Scientific Name</b>	Platycephalus conatus
<b>Current Assess ID</b>	CSIRO-DEEPFLATHEADSE-1980-2015-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2015	1200
<b>Fmsy</b>	Fmsy-1/yr	2015	0.24
<b>ERmsy</b>	ERmsy-conv-ratio	2015	0.49
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2015	4750
<b>Fmgt</b>	Fmgt-1/yr	2015	0.11
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2015	21,058
<b>SSB0</b>	SSB0-MT	2015	11,046
<b>MSY</b>	MSY-MT	2015	1200
<b>M</b>	M-1/yr	2015	0.19
<b>TBlim</b>	TBlim-MT	2007	1369
<b>SSBlim</b>	SSBlim-MT	2015	2209
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

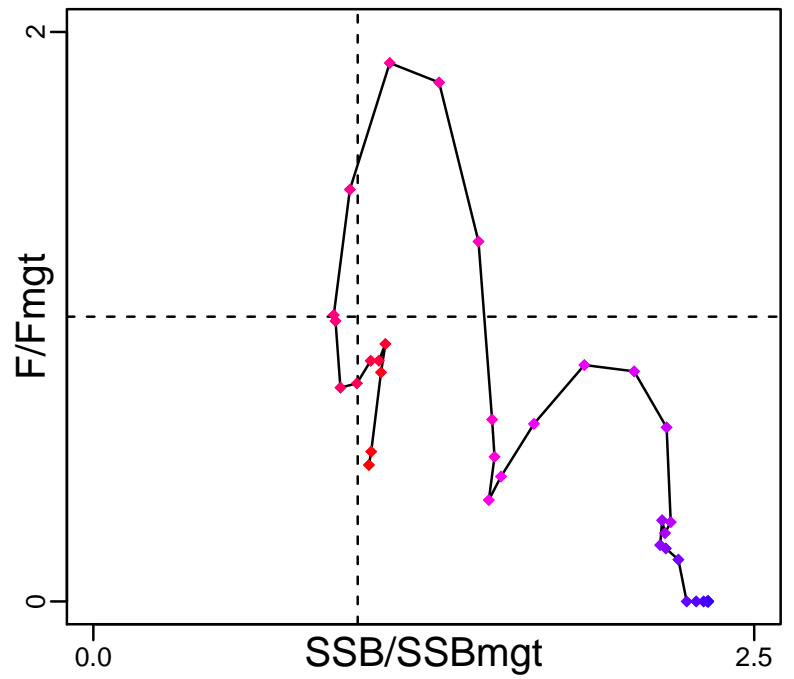
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	10,400	-	-
<b>SSB</b>	SSB-MT	2015	4950	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$6.75 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2015	0	-	-
<b>ER</b>	ER-ratio	2015	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	523		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2015	4.13		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	0.21		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2015	0.1		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2015	1.04		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	0.48		
<b>ER/ERmgt</b>	-	-	-		

# Deepwater flathead Southeast Australia [DEEPFLATHEADSE]

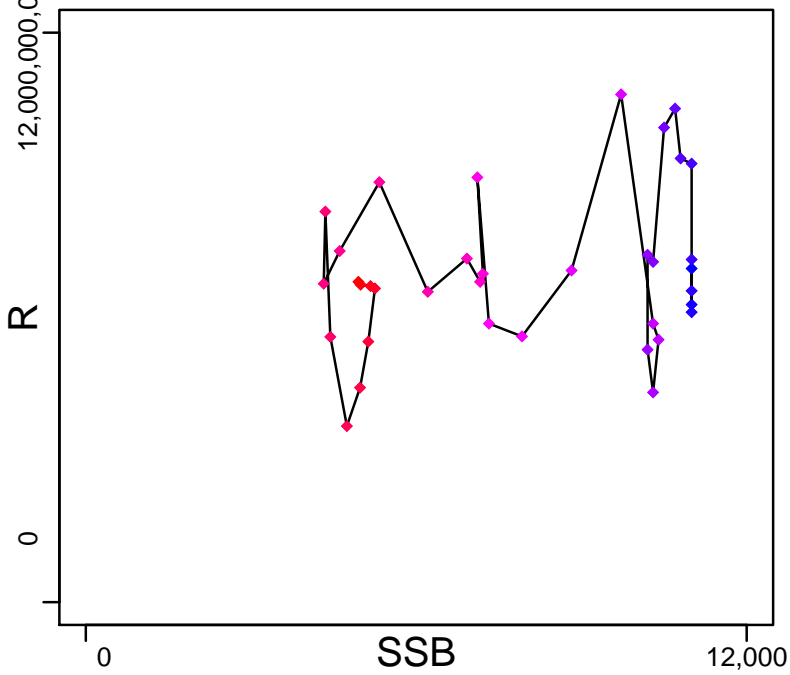
Kobe MSYpref (1980–2015–MOESENEDER)



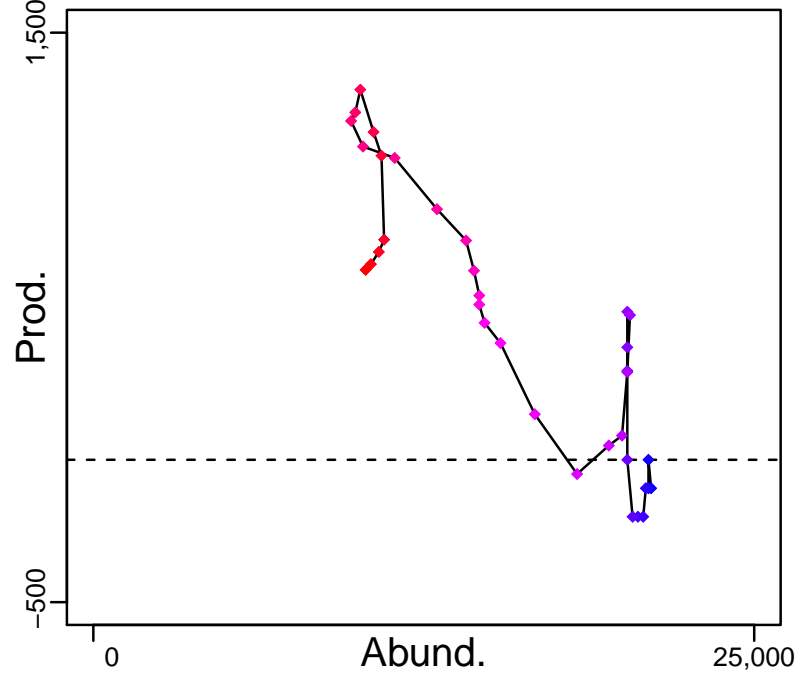
Kobe MGTpref (1980–2015–MOESENEDER)



Spawner Recruit (1980–2015–MOESENEDER)



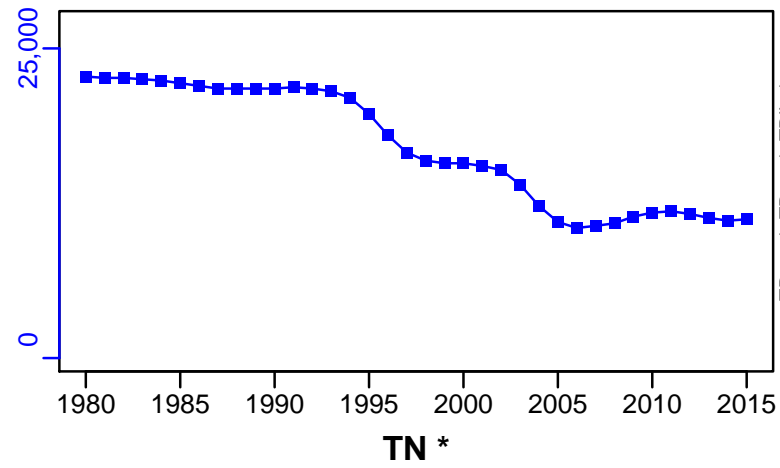
Production (1980–2015–MOESENEDER)



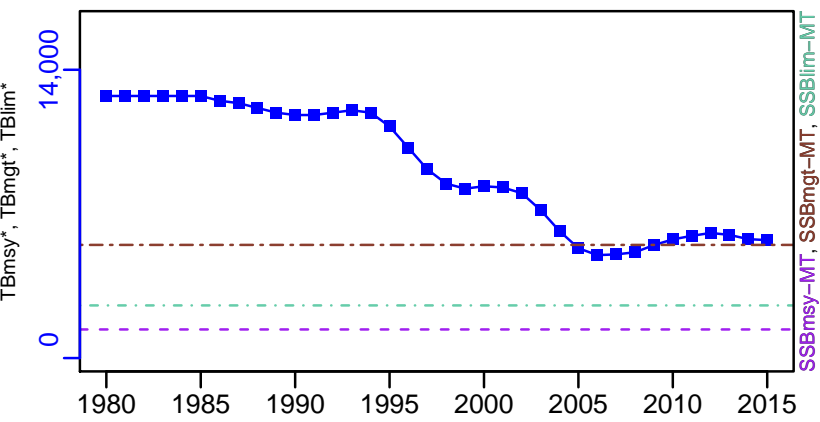
◆ Start Year ◆ End Year \* No Data

# Deepwater flathead Southeast Australia [DEEPFLATHEADSE]

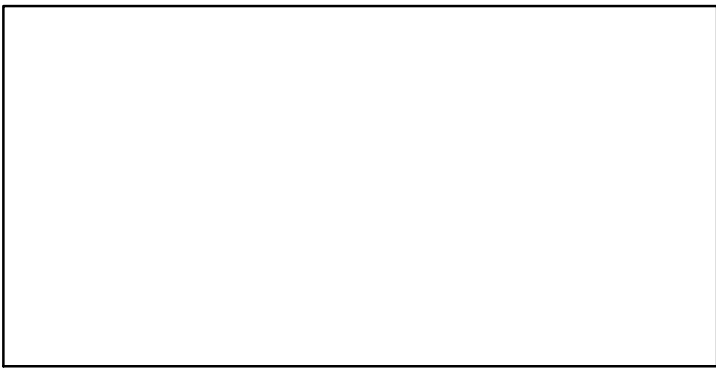
TB-MT (1980-2015-MOESENER)



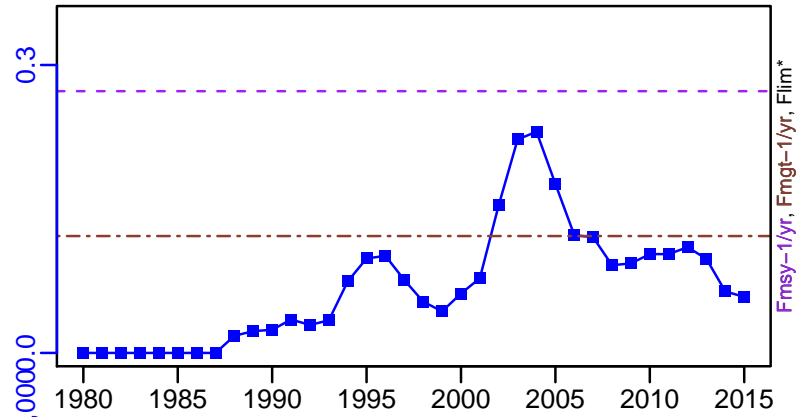
SSB-MT (1980-2015-MOESENER)



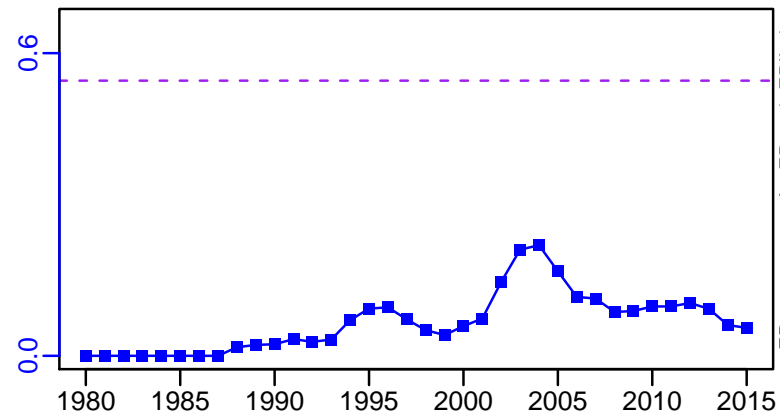
TN \*



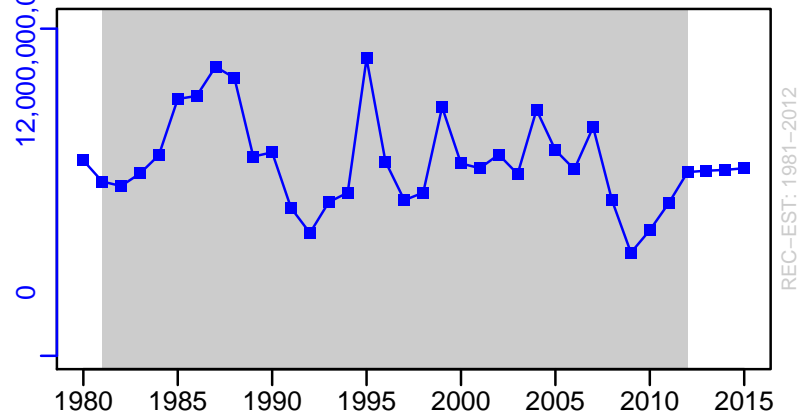
F-1/yr (1980-2015-MOESENER)



ER-ratio (1980-2015-MOESENER)

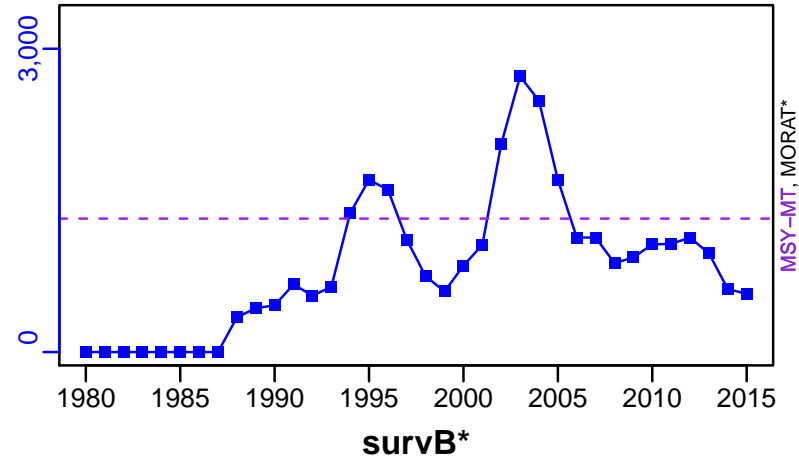


R-E00 (1980-2015-MOESENER)



# Deepwater flathead Southeast Australia [DEEPFLATHEADSE]

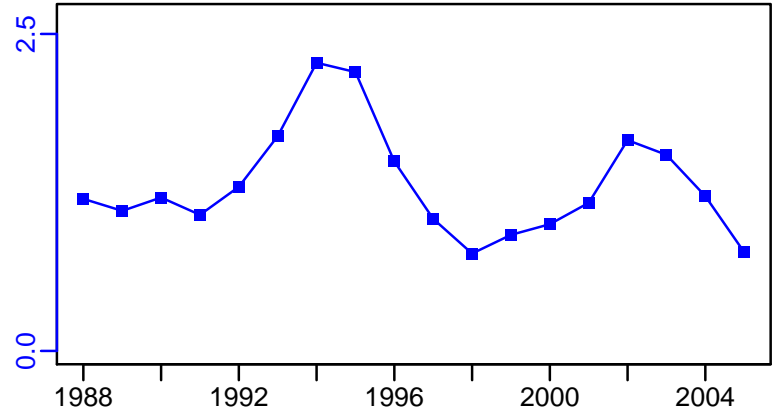
TL-MT, TC\*, RecC\* (1980-2015-MOESENER)



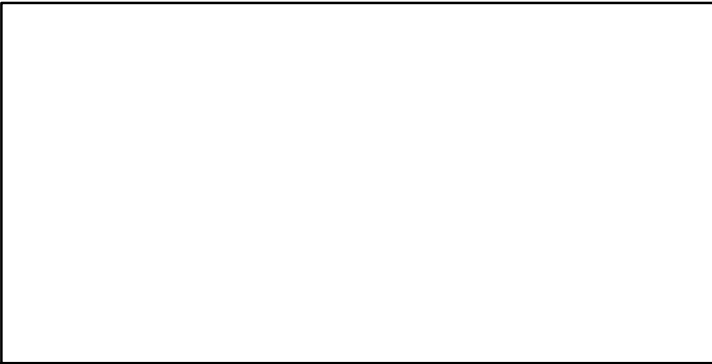
TAC\*, Cpair\*, Cadv\*



CPUEstand-C/E (1978-2007-FULTON)



EFFORT\*



## common gemfish Southeast Australia [GEMFISHSE]

Metadata	
<b>Scientific Name</b>	Rexea solandri
<b>Current Assess ID</b>	CSIRO-GEMFISHSE-1966-2007-FULTON
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007

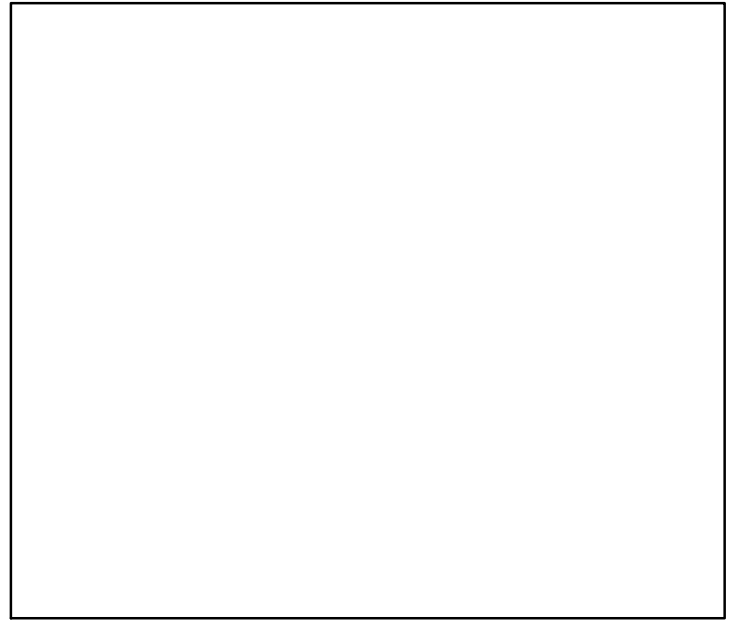
Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2007	5458
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2007	2274
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2007	3770	-	0
<b>SSB</b>	SSB-MT	2007	1360	Females	3
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2007	4,150,000	-	-
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2007	0	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2007	102	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2007	0.25	-	-
<b>F/Fmsy</b>	-	-	-	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

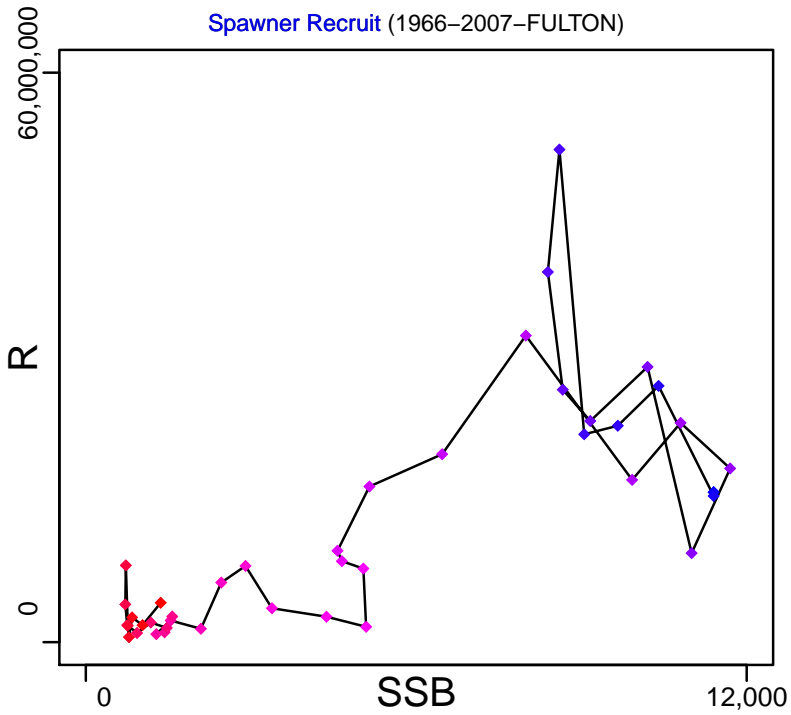
Kobe MSY\*



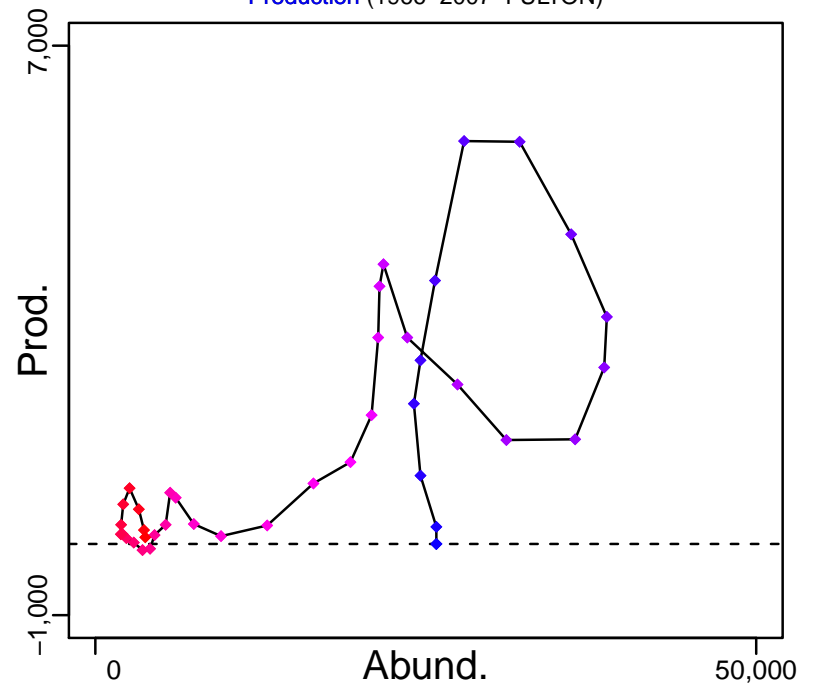
Kobe MGT\*



Spawner Recruit (1966–2007–FULTON)

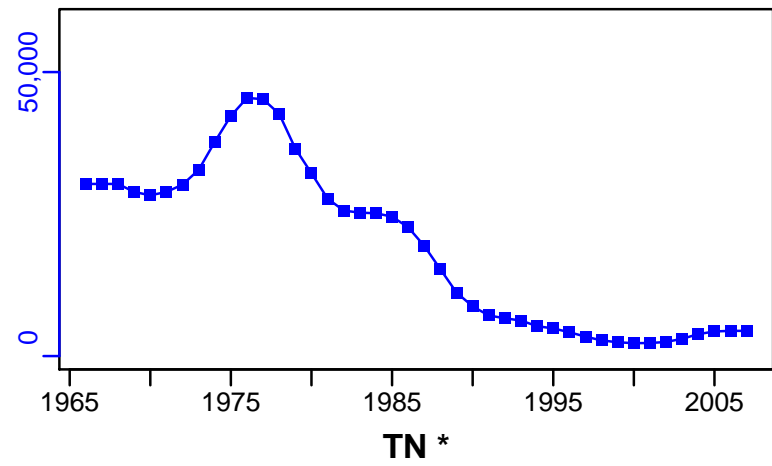


Production (1966–2007–FULTON)

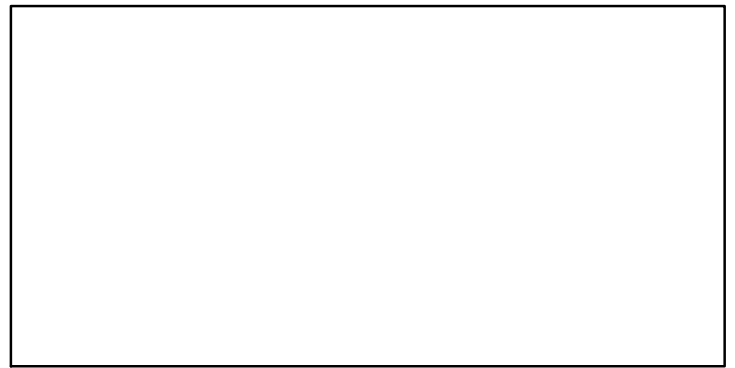
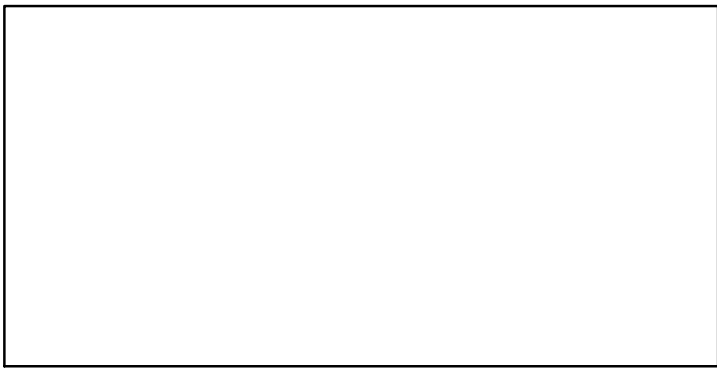
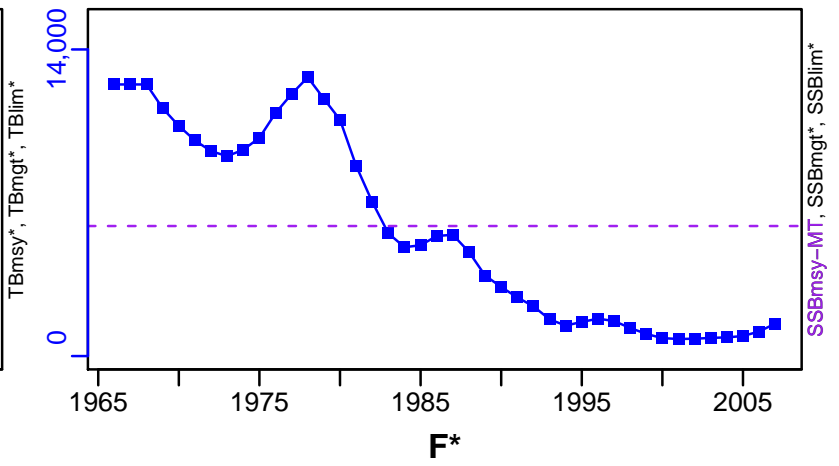


# common gemfish Southeast Australia [GEMFISHSE]

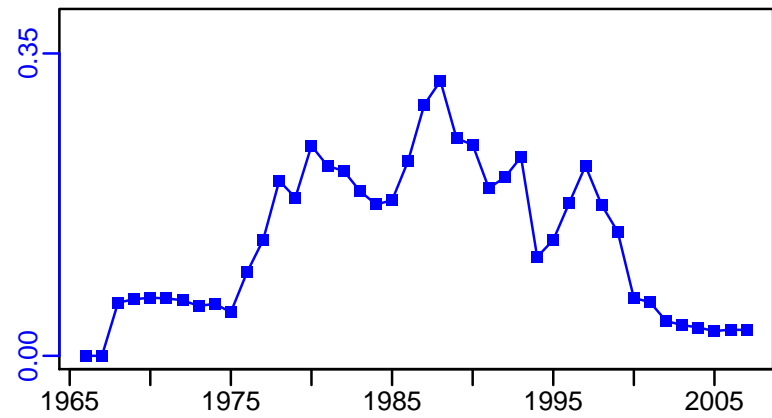
TB-MT (1966–2007–FULTON)



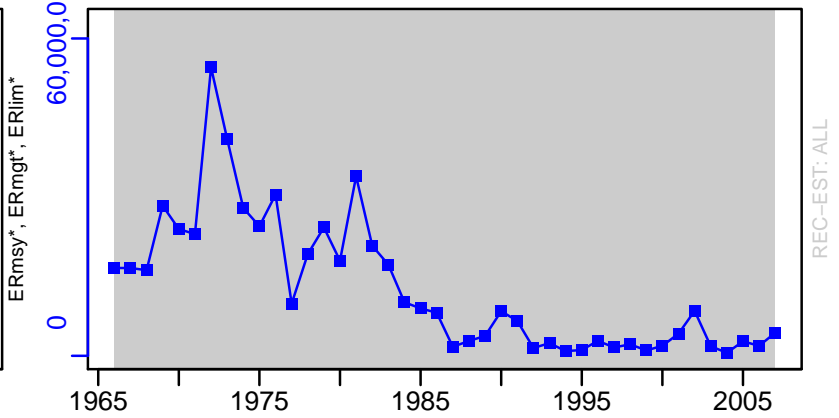
SSB-MT (1966–2007–FULTON)



ER-calc-ratio (1966–2007–FULTON)



R-E00 (1966–2007–FULTON)

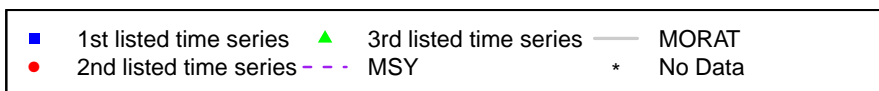
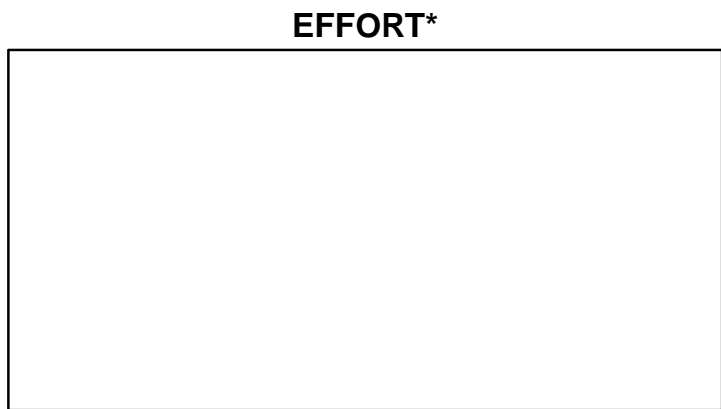
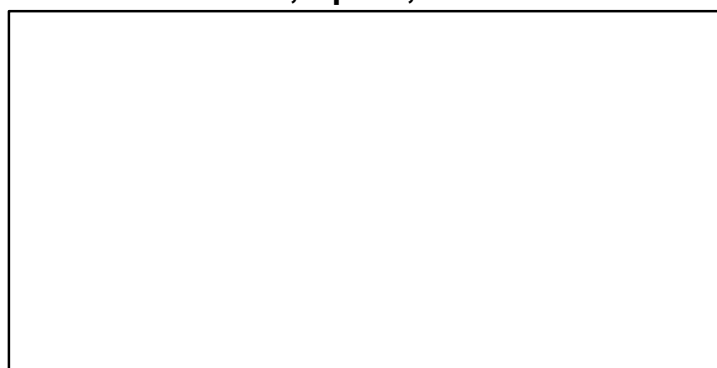
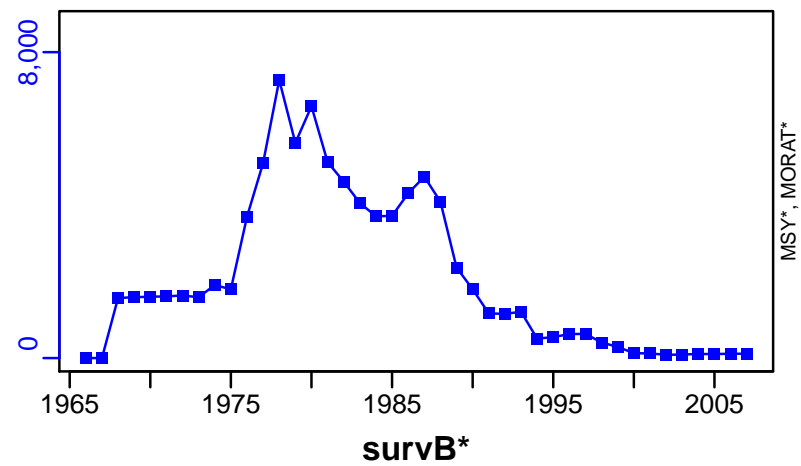




# common gemfish Southeast Australia [GEMFISHSE]

TL-MT, TC\*, RecC\* (1966-2007-FULTON)

TAC\*, Cpair\*, Cadv\*



## Northern Australia grooved Tiger Prawn [GTPRAWNNAUST]

Metadata	
<b>Scientific Name</b>	Penaeus semisulcatus
<b>Current Assess ID</b>	CSIRO-GTPRAWNNAUST-1970-2006-FULTON
<b>Area</b>	Northern Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	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	SSB-relative	2006	1	-	-
TN	-	-	-	-	-
R	R-relative	2006	231	-	-
F	F-1/yr	2006	0	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2006	1310		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern Australia grooved Tiger Prawn [GTPRAWNNAUST]

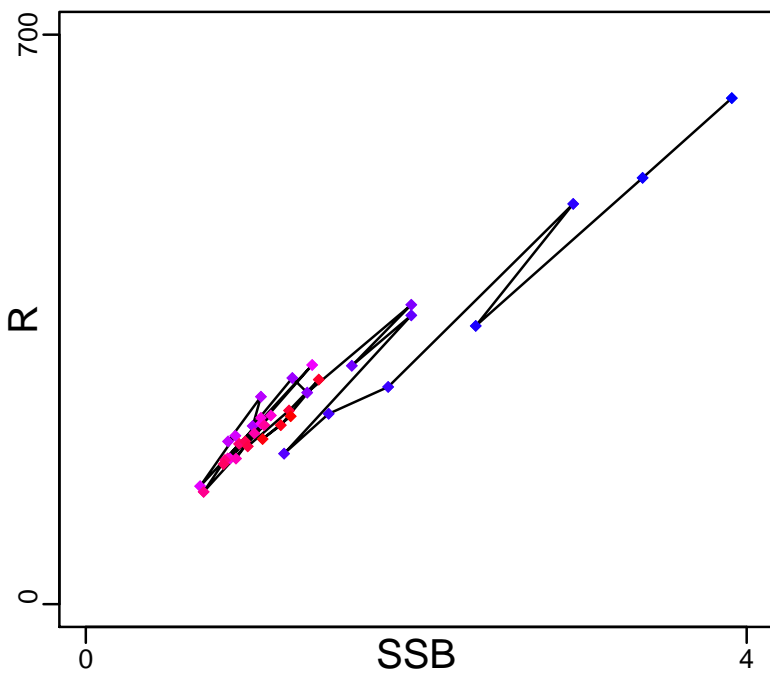
Kobe MSY\*



Kobe MGT\*



Spawner Recruit (1970–2006–FULTON)



Production\*



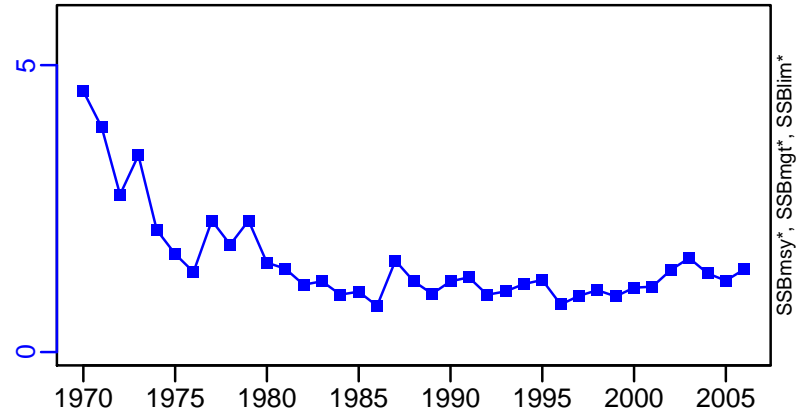
◆ Start Year ◆ End Year \* No Data

# Northern Australia grooved Tiger Prawn [GTPRAWNNAUST]

TB\*



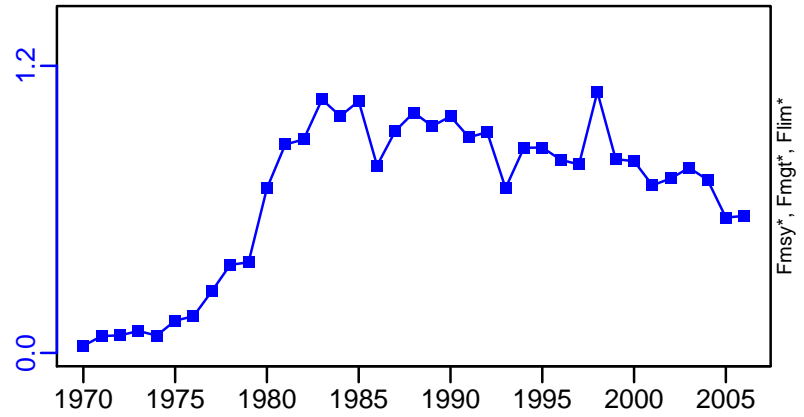
SSB-relative (1970–2006–FULTON)



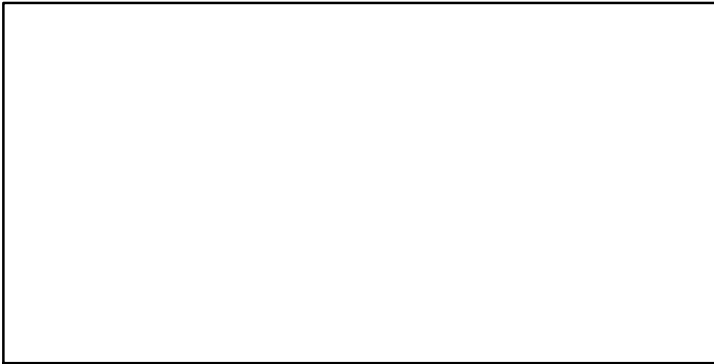
TN \*



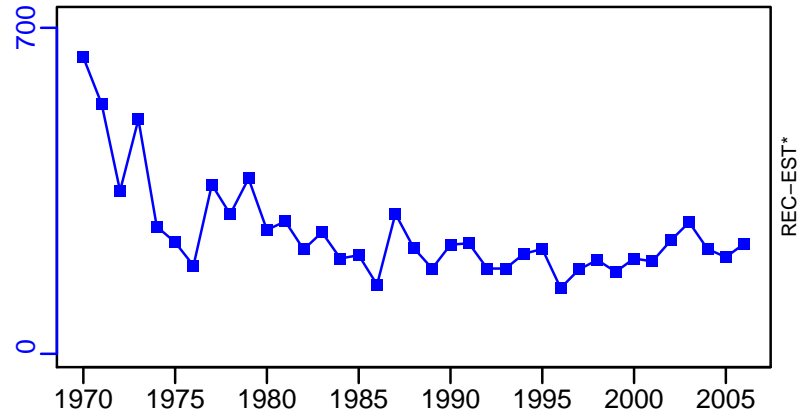
F-1/yr (1970–2006–FULTON)



ER\*



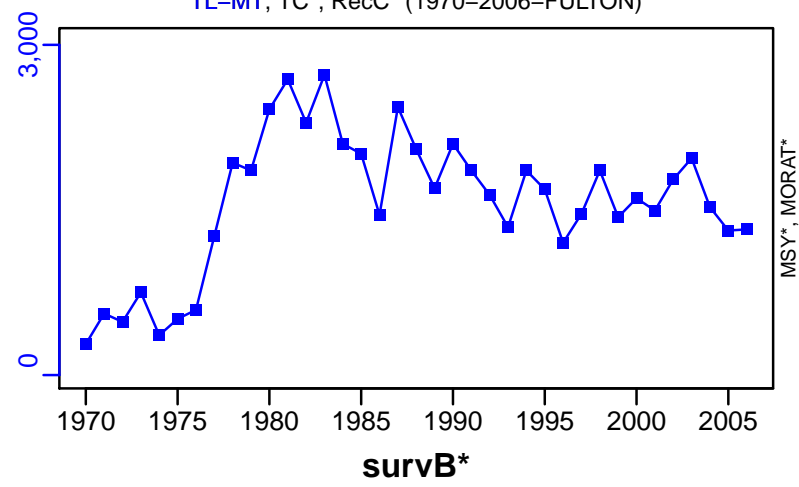
R-relative (1970–2006–FULTON)



# Northern Australia grooved Tiger Prawn [GTPRAWNNAUST]

TL-MT, TC\*, RecC\* (1970-2006-FULTON)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Jackass morwong Southeast Australia [MORWONGSE]

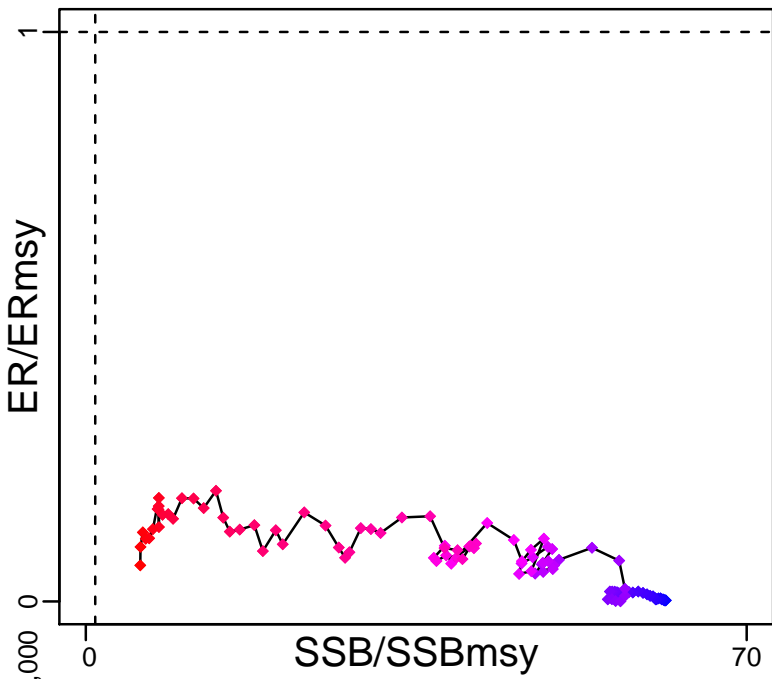
Metadata	
<b>Scientific Name</b>	Nemadactylus macropterus
<b>Current Assess ID</b>	CSIRO-MORWONGSE-1915-2014-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	468
<b>Fmsy</b>	Fmsy-1/yr	2014	0.26
<b>ERmsy</b>	ERmsy-conv-ratio	2014	0.77
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2014	3818
<b>Fmgt</b>	Fmgt-1/yr	2014	0.08
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	9704
<b>SSB0</b>	SSB0-MT	2014	7955
<b>MSY</b>	MSY-MT	2014	468
<b>M</b>	M-1/yr	2014	0.15
<b>TBlim</b>	TBlim-MT	2007	4784
<b>SSBlim</b>	SSBlim-MT	2014	1591
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

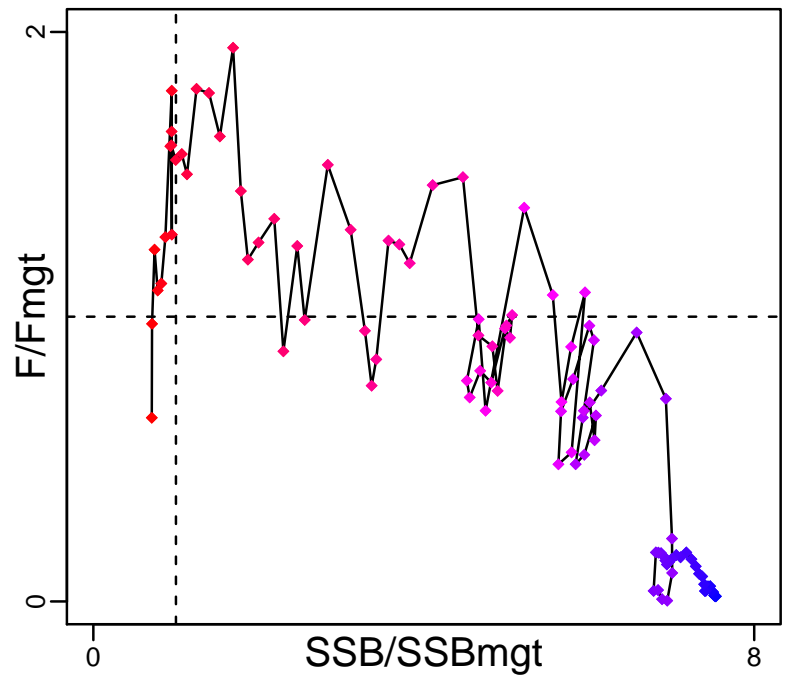
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	3930	-	-
<b>SSB</b>	SSB-MT	2014	2700	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$2.99 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2014	0	-	-
<b>ER</b>	ER-ratio	2014	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2014	181		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2014	5.77		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	0.2		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2014	0.06		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2014	0.71		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.65		
<b>ER/ERmgt</b>	-	-	-		

# Jackass morwong Southeast Australia [MORWONGSE]

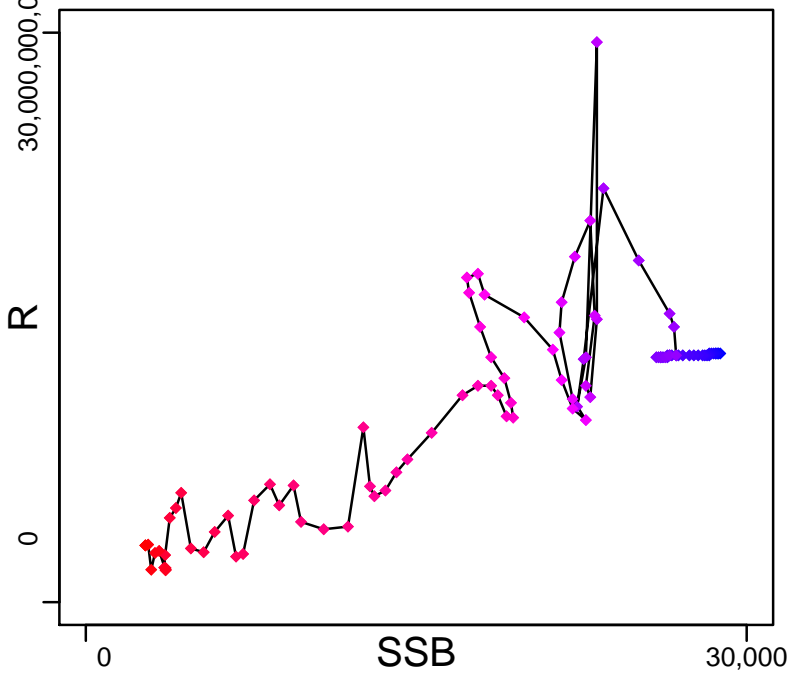
Kobe MSYpref (1915–2014–MOESENEDER)



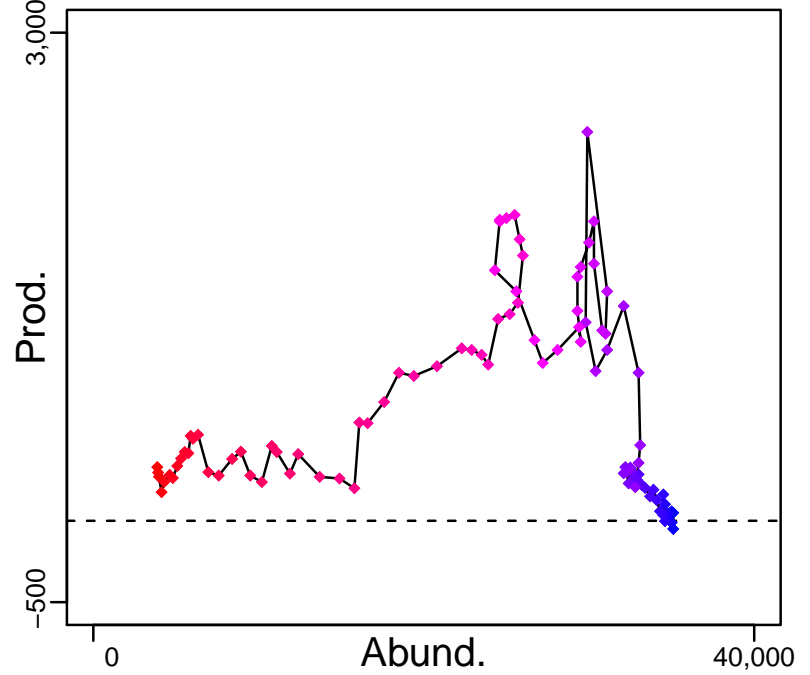
Kobe MGTpref (1915–2014–MOESENEDER)



Spawner Recruit (1915–2014–MOESENEDER)



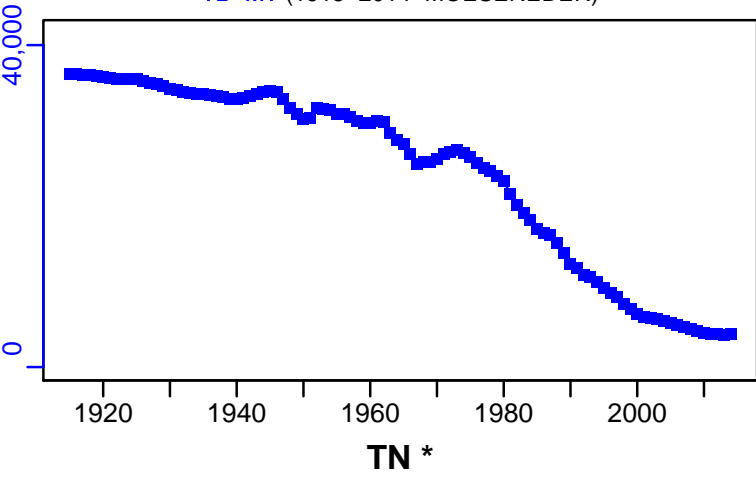
Production (1915–2014–MOESENEDER)



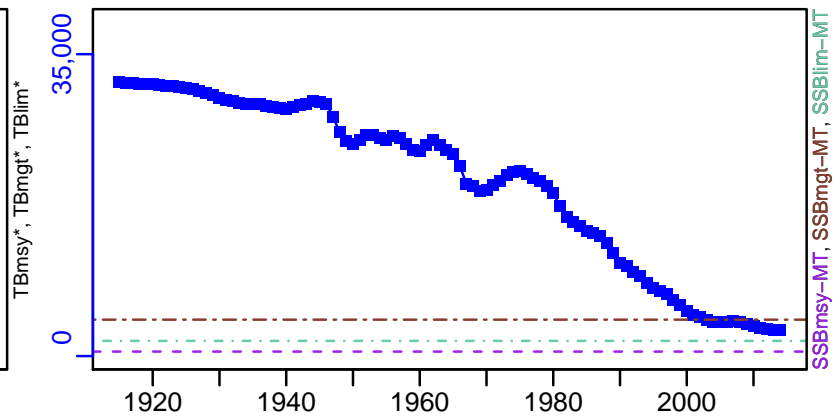
◆ Start Year ◆ End Year \* No Data

# Jackass morwong Southeast Australia [MORWONGSE]

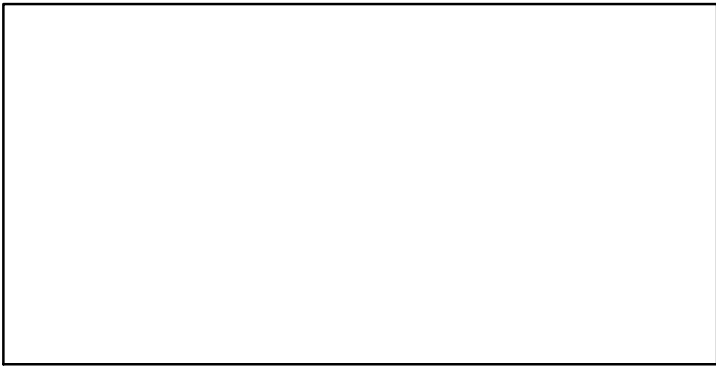
TB-MT (1915-2014-MOESENER)



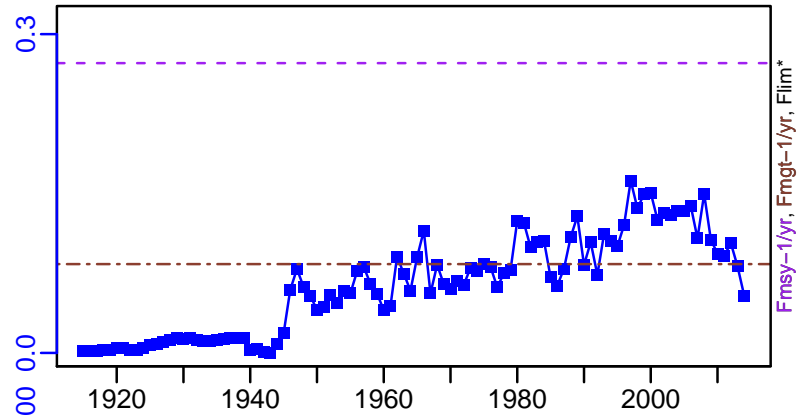
SSB-MT (1915-2014-MOESENER)



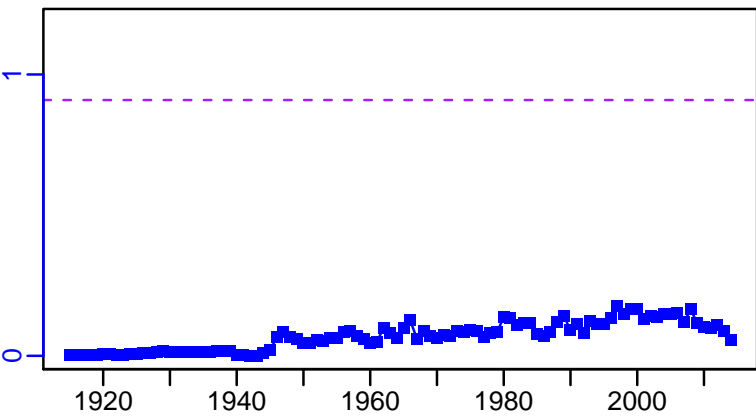
TN \*



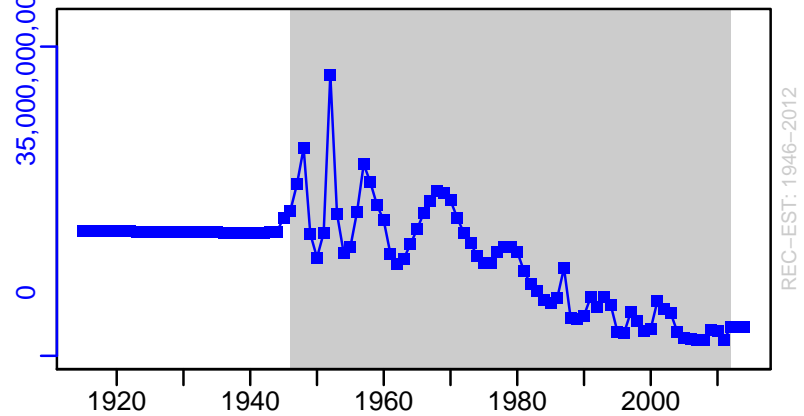
F-1/yr (1915-2014-MOESENER)



ER-ratio (1915-2014-MOESENER)



R-E00 (1915-2014-MOESENER)

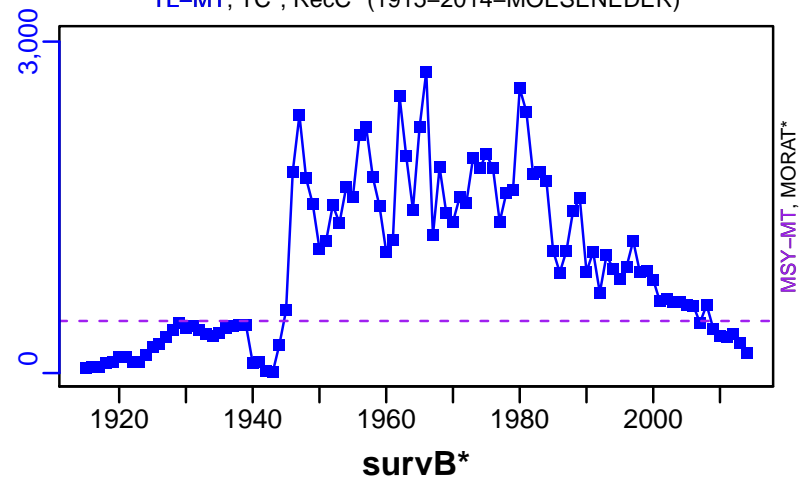




# Jackass morwong Southeast Australia [MORWONGSE]

TL-MT, TC\*, RecC\* (1915-2014-MOESENER)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Sea Mullet Queensland and New South Wales [MULLQNSW]

Metadata	
<b>Scientific Name</b>	Mugil cephalus
<b>Current Assess ID</b>	DPIF-MULLQNSW-1945-2003-BANOBI
<b>Area</b>	Queensland and New South Wales
<b>Management Authority</b>	Department of Primary Industries and Fisheries
<b>Assessor</b>	Department of Primary Industries and Fisheries
<b>Asmts in RAM</b>	2003

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2003	0.33
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2003	35,200	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2003	41,800,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2003	0	-	-
TC	-	-	-		
TL	TL-MT	2003	4220		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Sea Mullet Queensland and New South Wales [MULLQNSW]

Kobe MSY\*



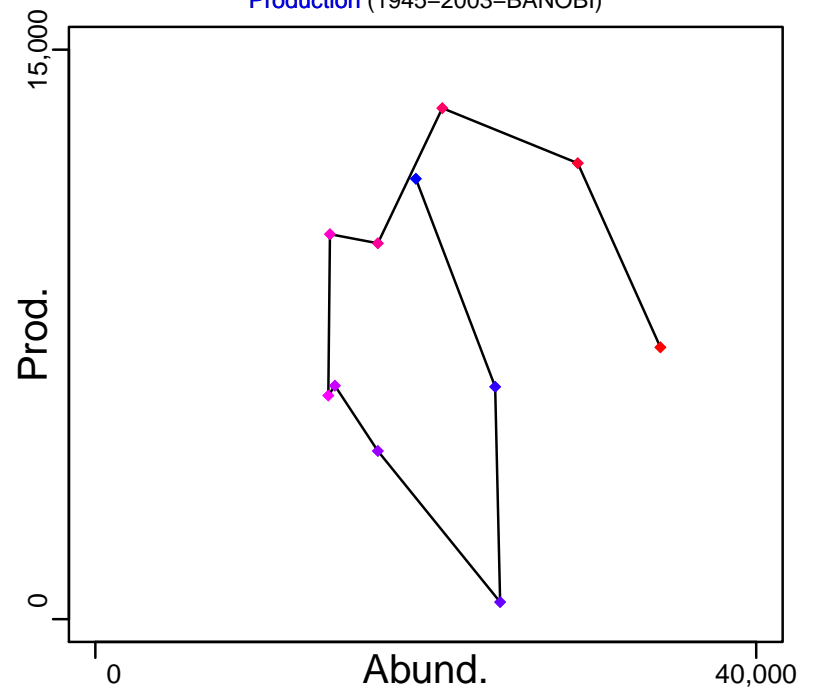
Kobe MGT\*



Spawner Recruit\*



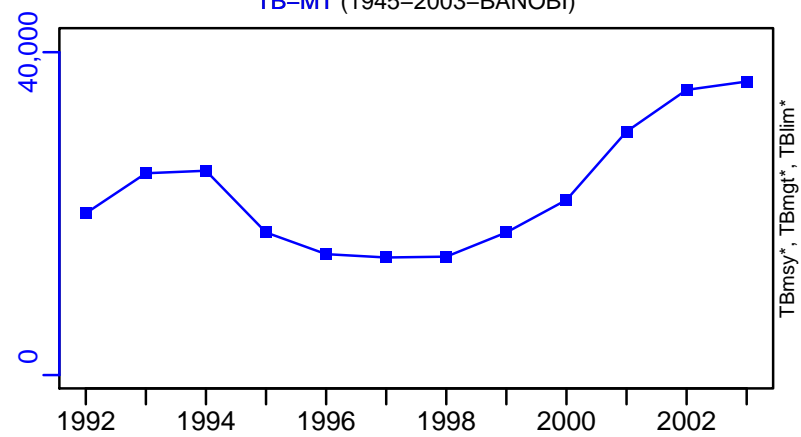
Production (1945–2003–BANOB)



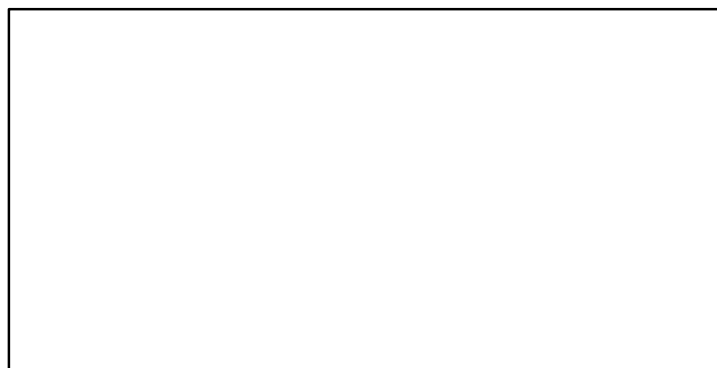
◆ Start Year ◆ End Year \* No Data

# Sea Mullet Queensland and New South Wales [MULLQNSW]

TB-MT (1945-2003-BANOBI)



SSB\*



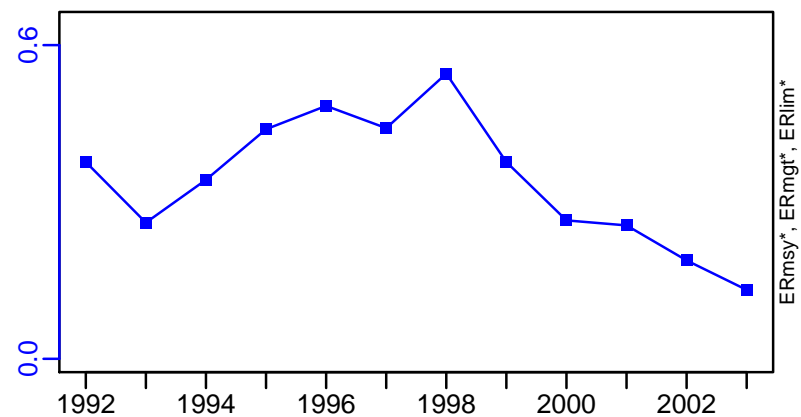
TN \*



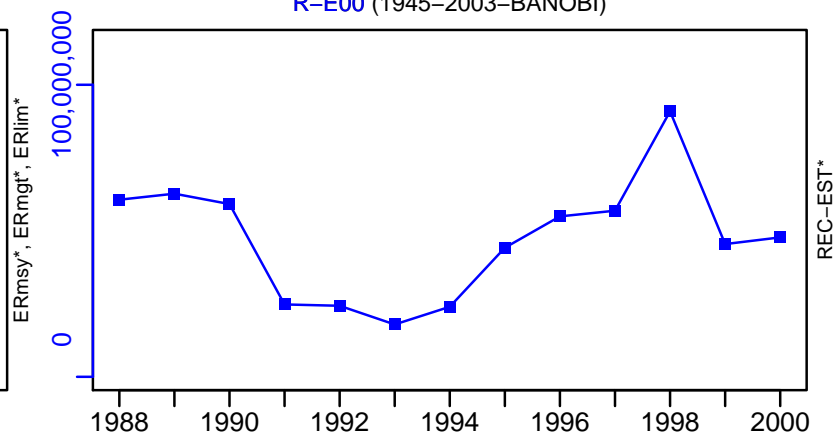
F\*



ER-ratio (1945-2003-BANOBI)



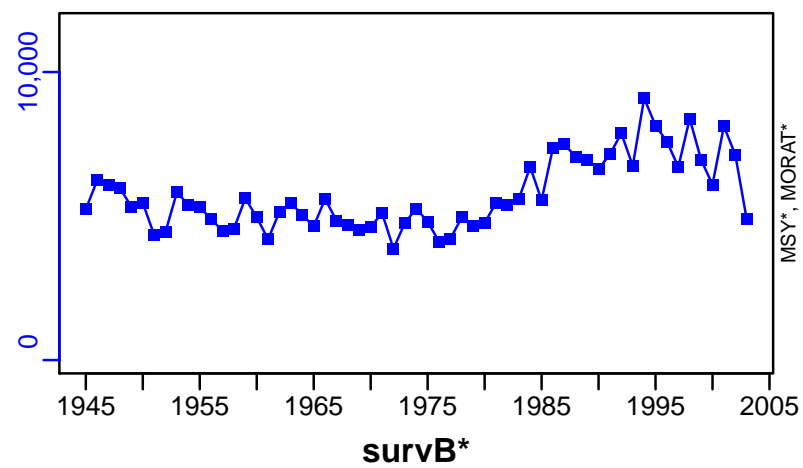
R-E00 (1945-2003-BANOBI)



# Sea Mullet Queensland and New South Wales [MULLQNSW]

TL-MT, TC\*, RecC\* (1945-2003-BANOBI)

TAC\*, Cpair\*, Cadv\*



CPUE\*

EFFORT\*

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

## New Zealand ling Eastern half of Southeast Australia [NZLINGESE]

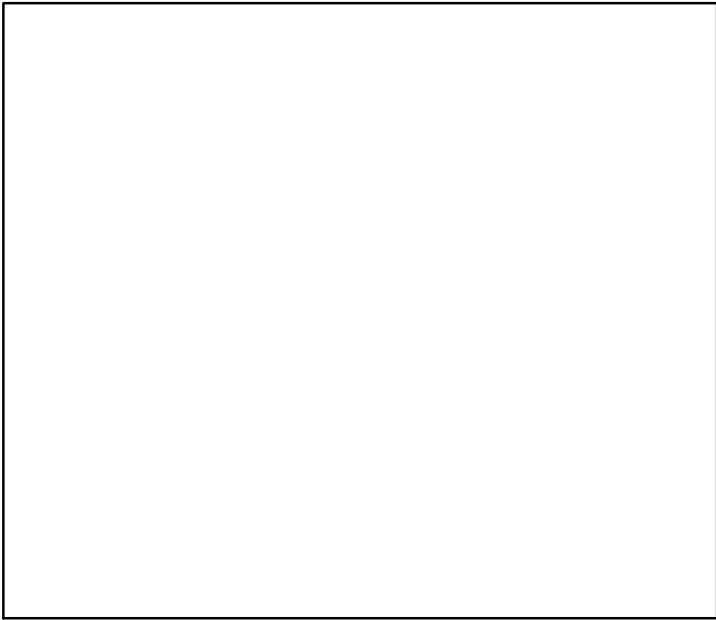
Metadata	
<b>Scientific Name</b>	Genypterus blacodes
<b>Current Assess ID</b>	CSIRO-NZLINGESE-1968-2007-FULTON
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2007	3324
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2007	0.2
<b>TBlim</b>	TBlim-MT	2007	1385
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2007	4260	-	0
<b>SSB</b>	SSB-MT	2007	1960	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2007	1,930,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2007	0	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2007	736	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2007	0.59	-	-
<b>F/Fmsy</b>	-	-	-	-	-
<b>ER/ERmsy</b>	-	-	-	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

New Zealand ling Eastern half of Southeast Australia [NZLINGESE]

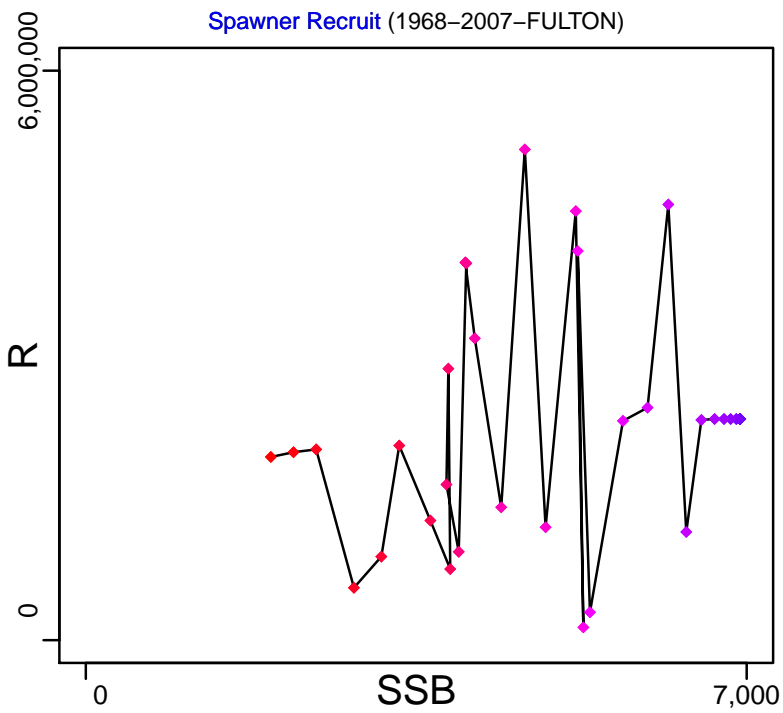
Kobe MSY\*



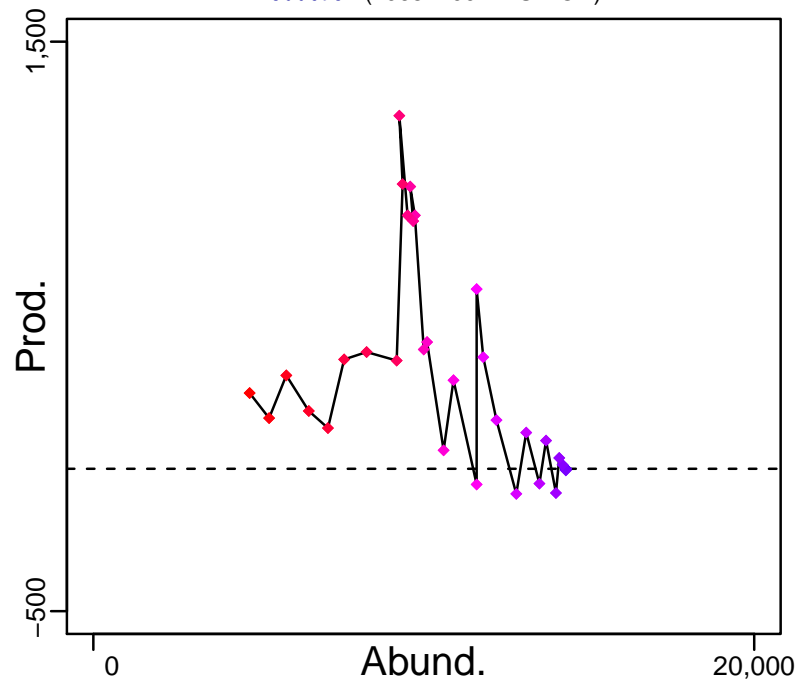
Kobe MGT\*



Spawner Recruit (1968–2007–FULTON)



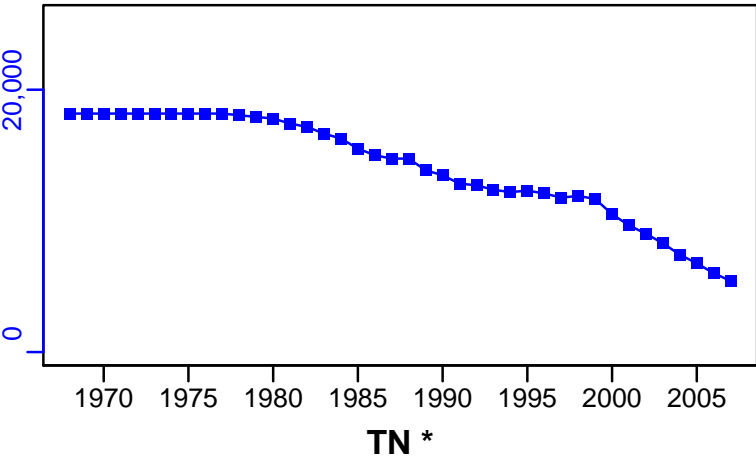
Production (1968–2007–FULTON)



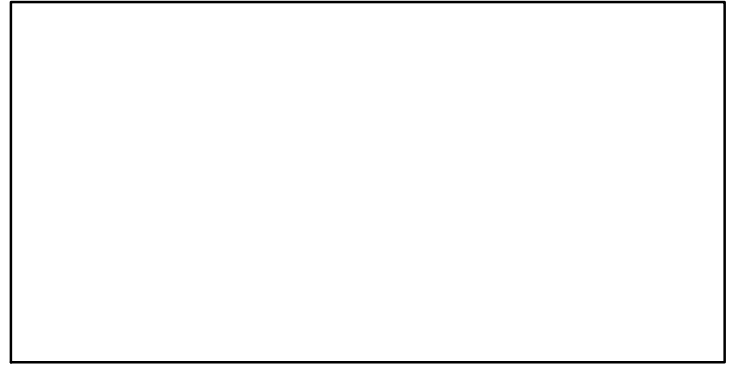
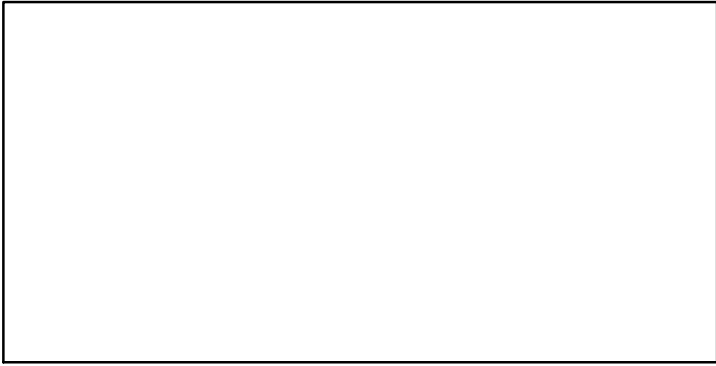
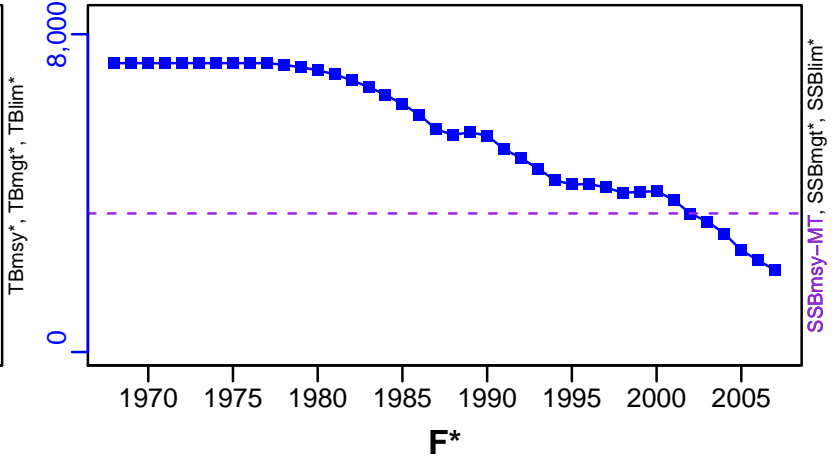
◆ Start Year ◆ End Year \* No Data

# New Zealand ling Eastern half of Southeast Australia [NZLINGESE]

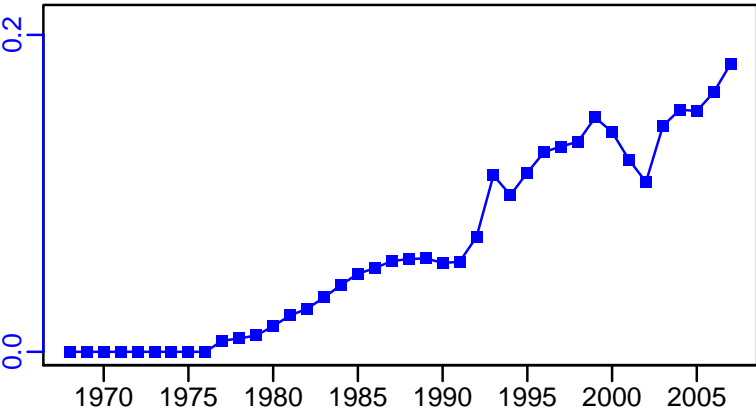
TB-MT (1968-2007-FULTON)



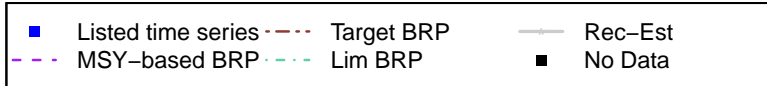
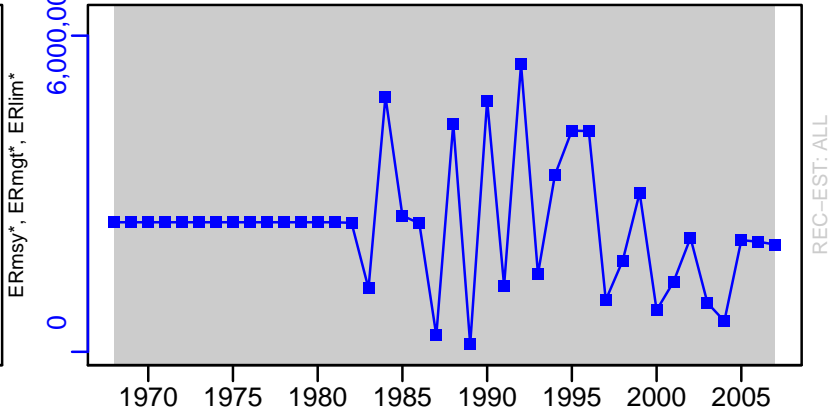
SSB-MT (1968-2007-FULTON)



ER-calc-ratio (1968-2007-FULTON)



R-E00 (1968-2007-FULTON)

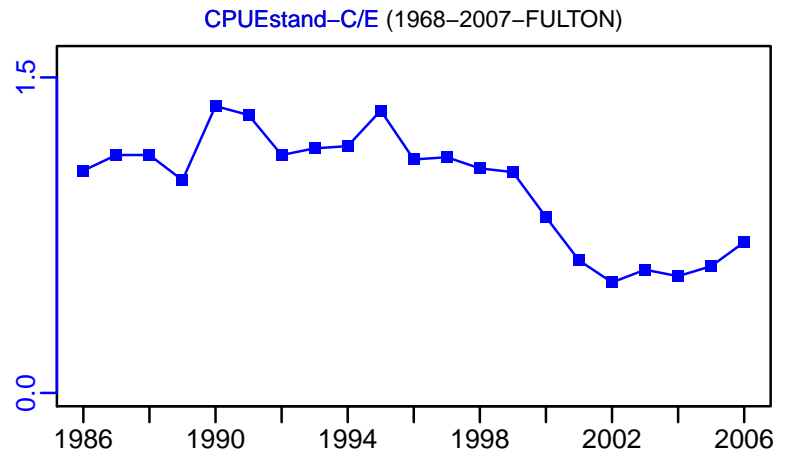
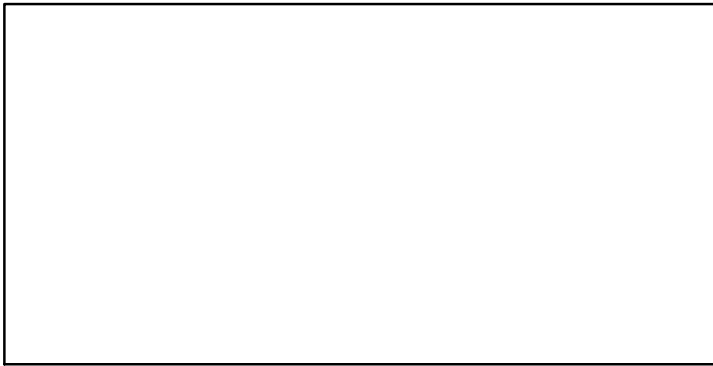
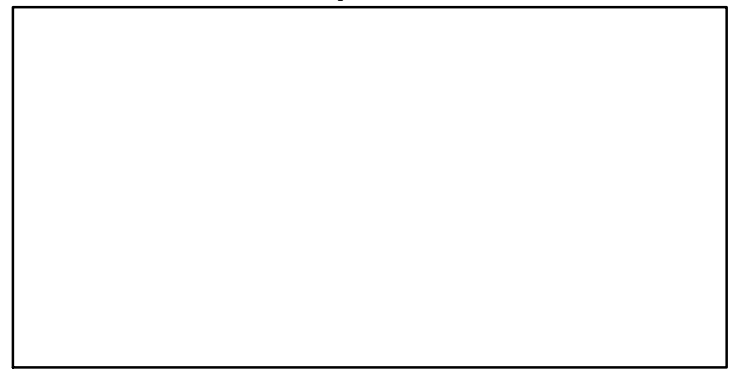
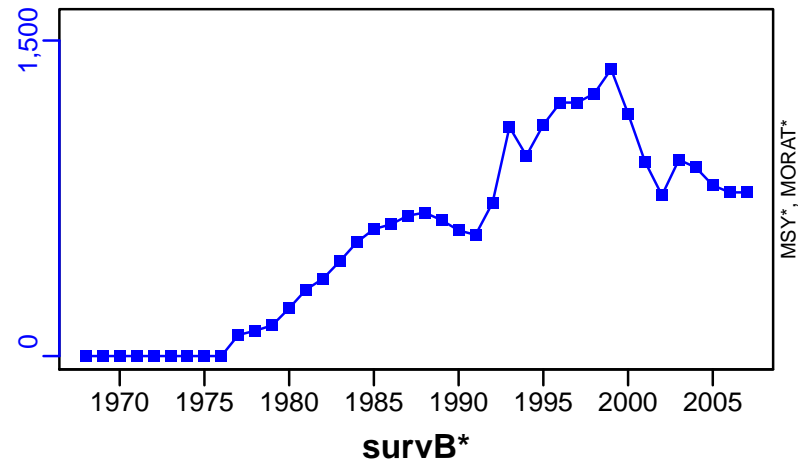




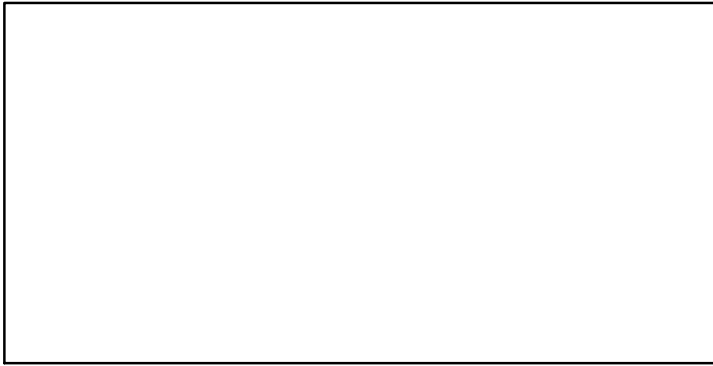
# New Zealand ling Eastern half of Southeast Australia [NZLINGESE]

TL-MT, TC\*, RecC\* (1968-2007-FULTON)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## New Zealand ling Western half of Southeast Australia [NZLINGWSE]

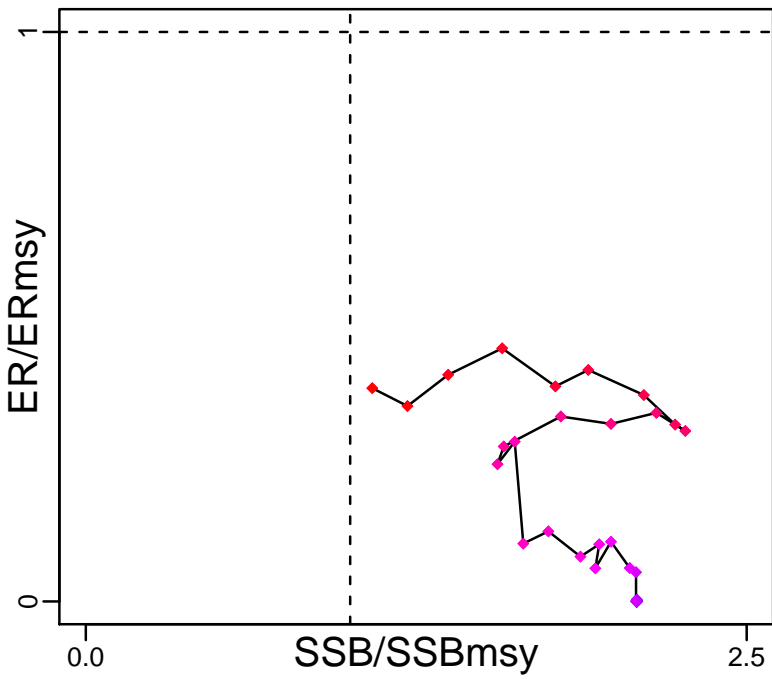
Metadata	
<b>Scientific Name</b>	Genypterus blacodes
<b>Current Assess ID</b>	CSIRO-NZLINGWSE-1968-2007-FULTON
<b>Area</b>	Western half of Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2007	3378
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2007	0.16
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-calc-MT	2007	1226
<b>M</b>	M-1/yr	2007	0.2
<b>TBlim</b>	TBlim-MT	2007	1407
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

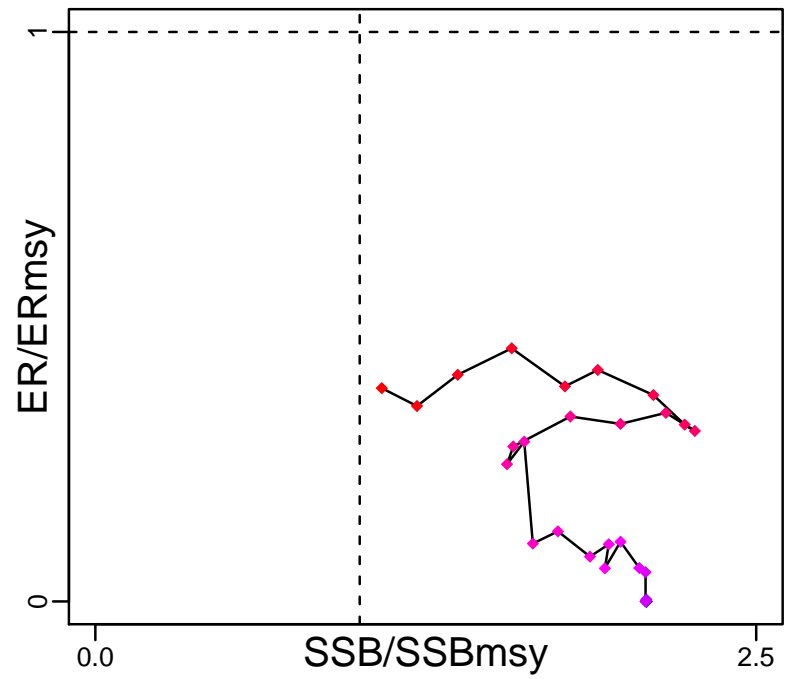
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2007	7760	-	0
<b>SSB</b>	SSB-MT	2007	3660	Females	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2007	2,290,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2007	0	-	-
<b>TC</b>	-	-	-	-	-
<b>TL</b>	TL-MT	2007	465	-	-
<b>TB/TBmsy</b>	-	-	-	-	-
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2007	1.08	-	-
<b>F/Fmsy</b>	-	-	-	-	-
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2007	0.37	-	-
<b>TB/TBmgt</b>	-	-	-	-	-
<b>SSB/SSBmgt</b>	-	-	-	-	-
<b>F/Fmgt</b>	-	-	-	-	-
<b>ER/ERmgt</b>	-	-	-	-	-

# New Zealand ling Western half of Southeast Australia [NZLINGWSE]

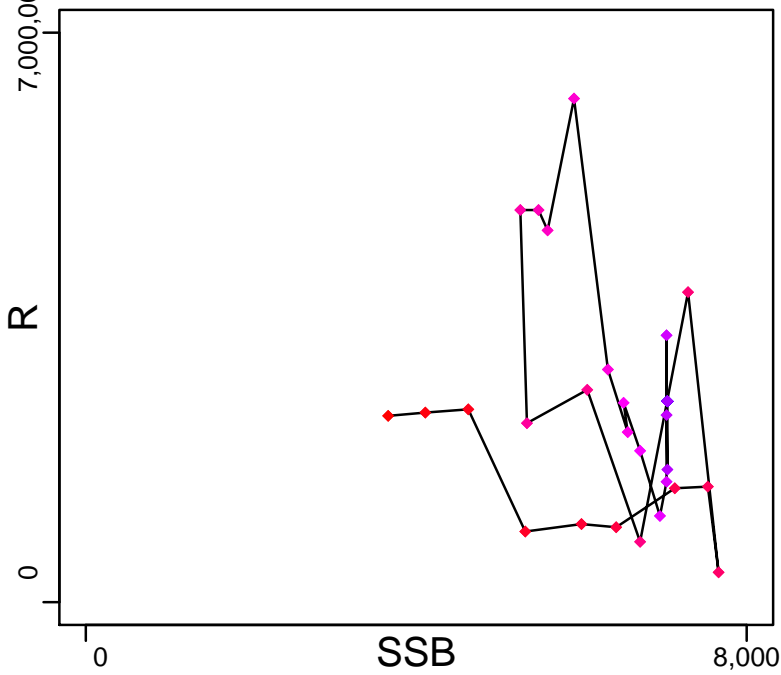
Kobe MSYpref (1968–2007–FULTON)



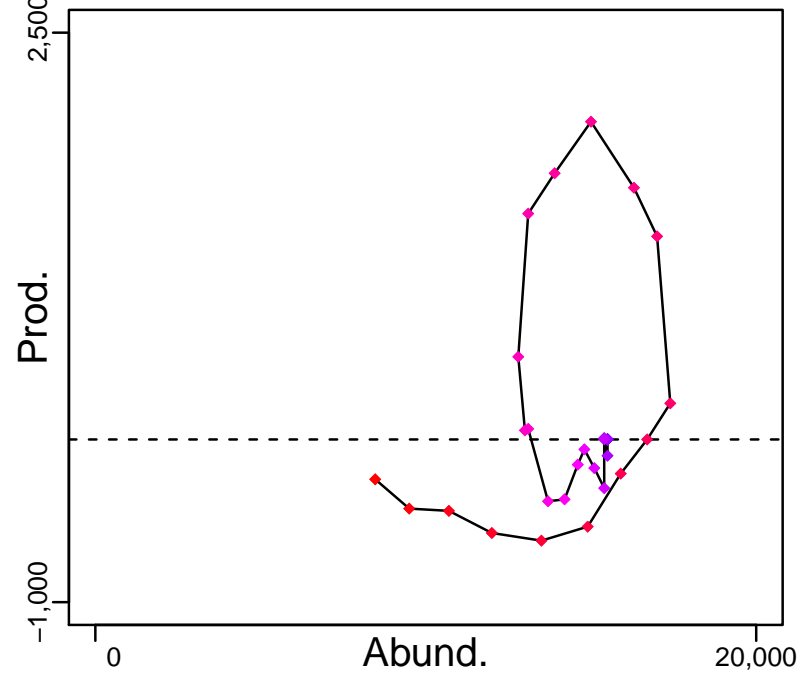
Kobe MGTpref (1968–2007–FULTON)



Spawner Recruit (1968–2007–FULTON)



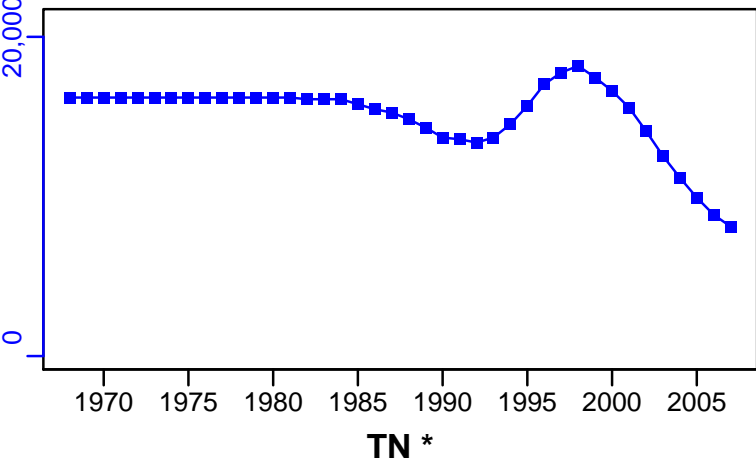
Production (1968–2007–FULTON)



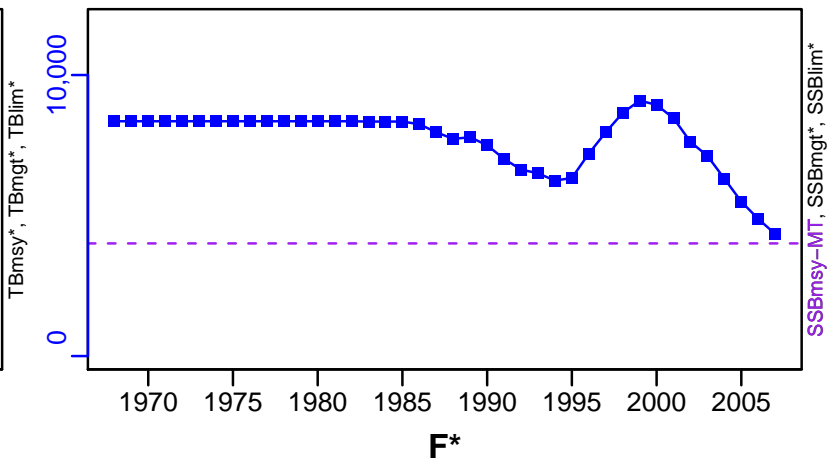
◆ Start Year ◆ End Year \* No Data

# New Zealand ling Western half of Southeast Australia [NZLINGWSE]

TB-MT (1968-2007-FULTON)



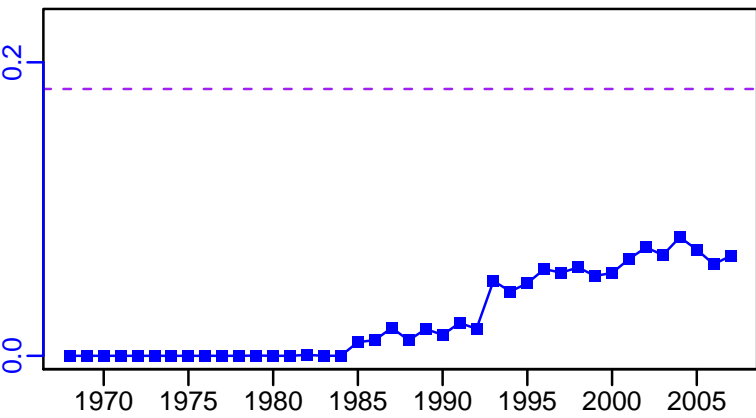
SSB-MT (1968-2007-FULTON)



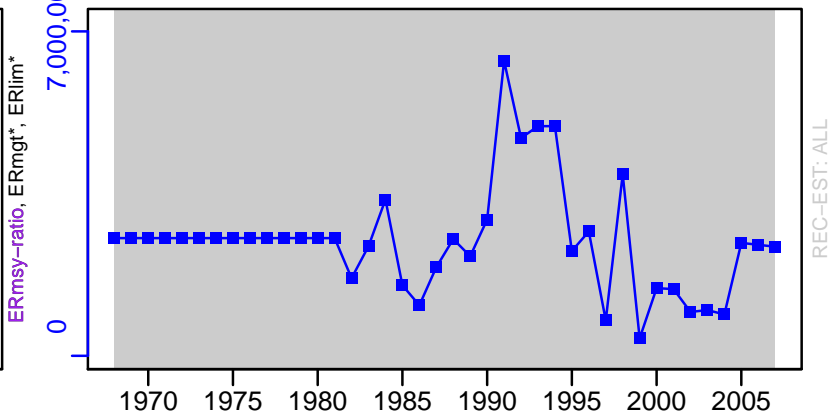
TN \*

F\*

ER-calc-ratio (1968-2007-FULTON)

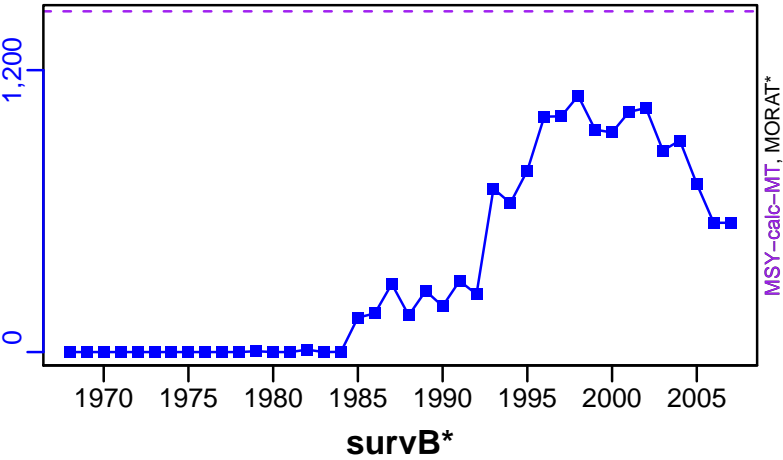


R-E00 (1968-2007-FULTON)



New Zealand ling Western half of Southeast Australia [NZLINGWSE]

TL-MT, TC\*, RecC\* (1968-2007-FULTON)



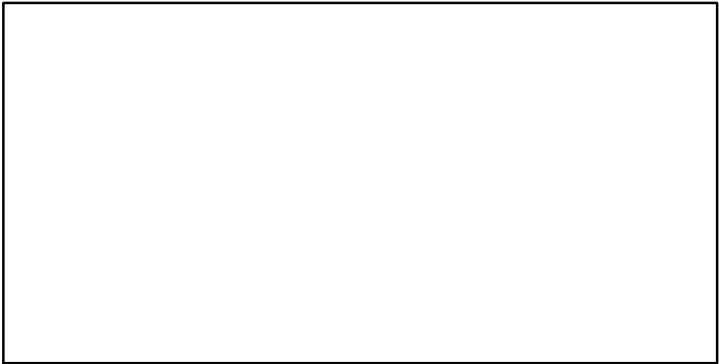
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Orange roughy Cascade Plateau [OROUGHYCASCADE]

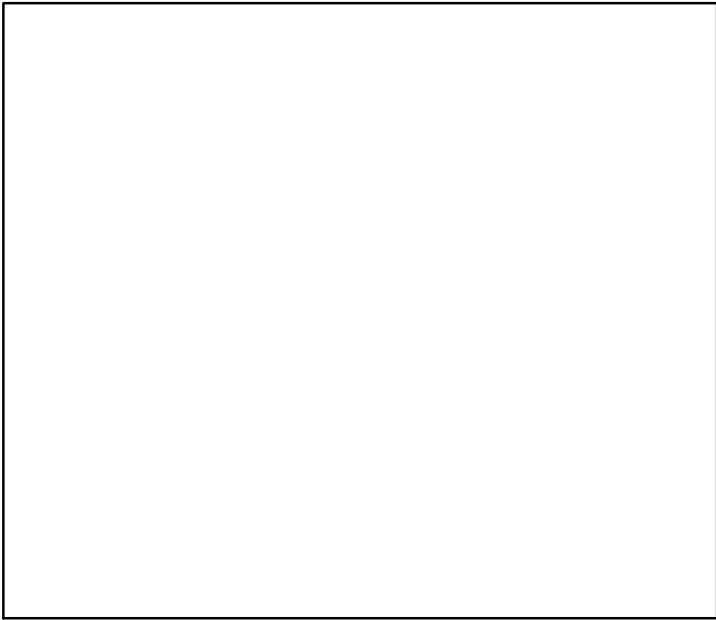
Metadata	
<b>Scientific Name</b>	Hoplostethus atlanticus
<b>Current Assess ID</b>	CSIRO-OROUGHYCASCADE-1987-2006-FULTON
<b>Area</b>	Cascade Plateau
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2006

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2006	5716
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	74,000	Both	0
SSB	SSB-MT	2006	21,200	Females	-
TN	-	-	-	-	-
R	R-E00	2006	1,030,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2006	0	-	-
TC	-	-	-	-	-
TL	TL-MT	2006	800	-	-
TB/TBmsy	-	-	-	-	-
SSB/SSBmsy	-	-	-	-	-
F/Fmsy	-	-	-	-	-
ER/ERmsy	-	-	-	-	-
TB/TBmgt	-	-	-	-	-
SSB/SSBmgt	-	-	-	-	-
F/Fmgt	-	-	-	-	-
ER/ERmgt	-	-	-	-	-

Orange roughy Cascade Plateau [OROUGHYCASCADE]

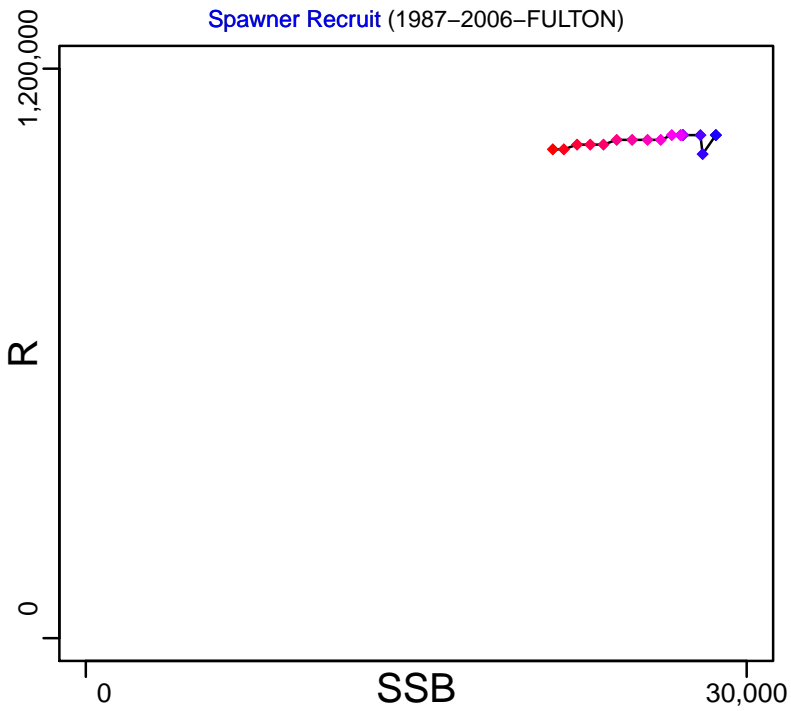
Kobe MSY\*



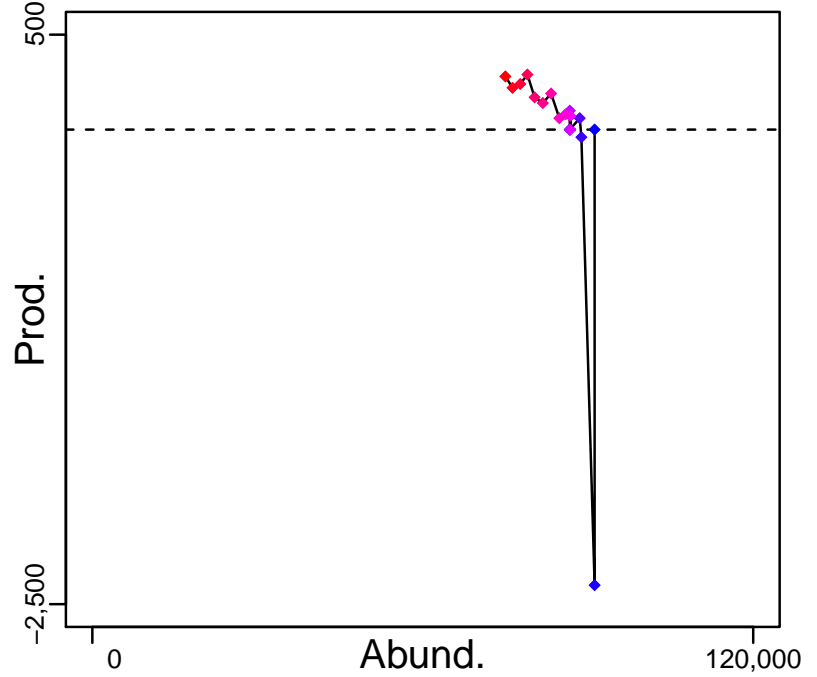
Kobe MGT\*



Spawner Recruit (1987–2006–FULTON)



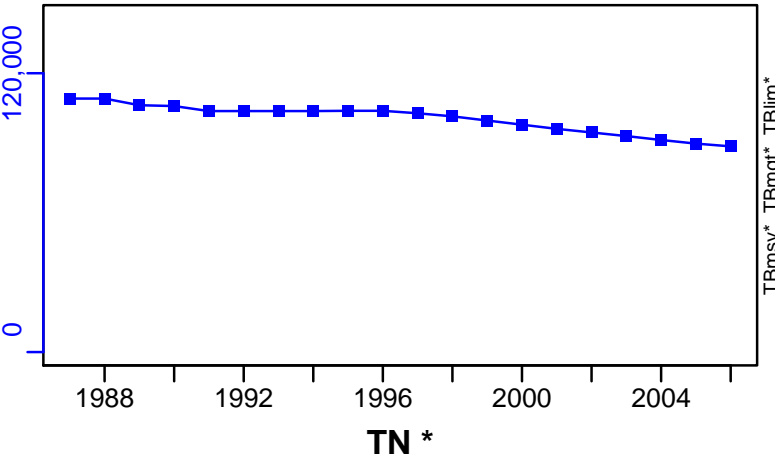
Production (1987–2006–FULTON)



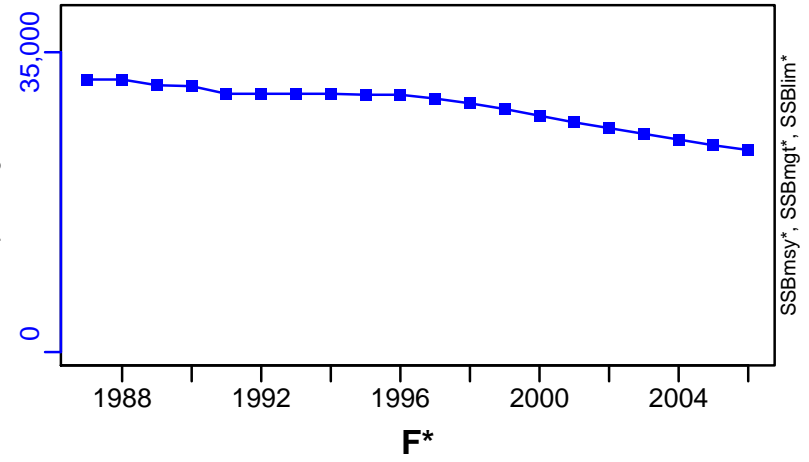
◆ Start Year ◆ End Year \* No Data

# Orange roughy Cascade Plateau [OROUGHYCASCADE]

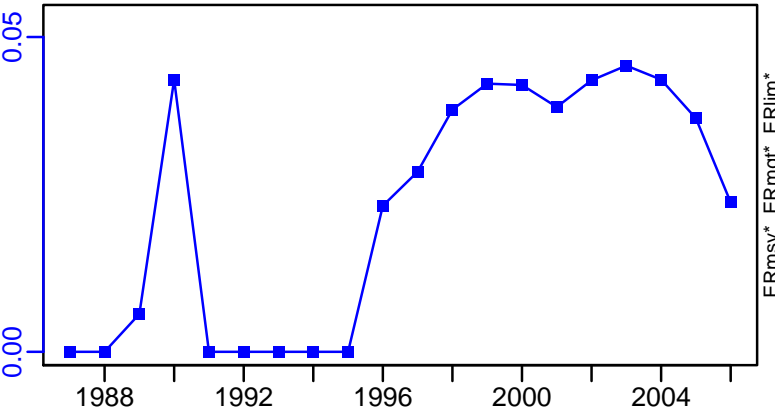
TB-MT (1987-2006-FULTON)



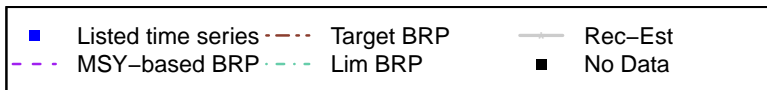
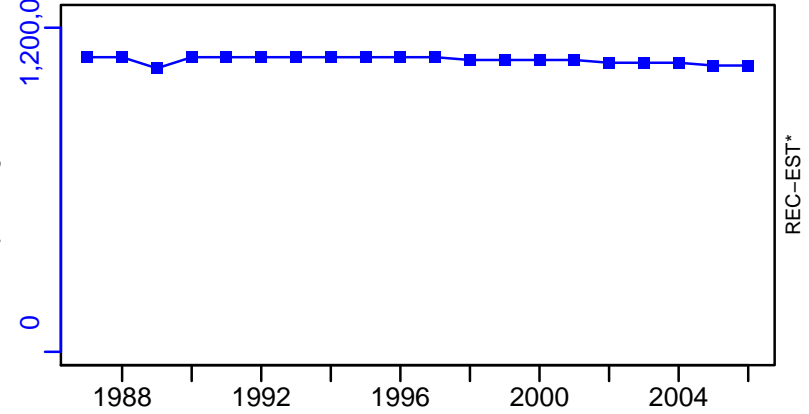
SSB-MT (1987-2006-FULTON)



ER-ratio (1987-2006-FULTON)



R-E00 (1987-2006-FULTON)

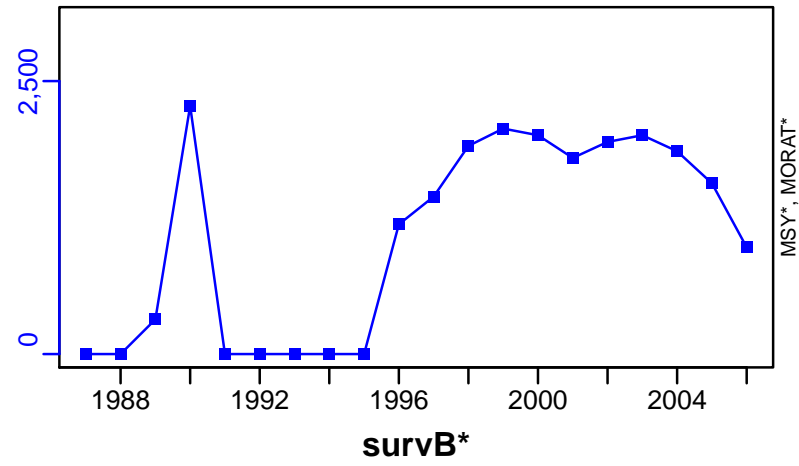




# Orange roughy Cascade Plateau [OROUGHYCASCADE]

TL-MT, TC\*, RecC\* (1987-2006-FULTON)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Orange roughy Southeast Australia [OROUGHYSE]

Metadata	
<b>Scientific Name</b>	Hoplostethus atlanticus
<b>Current Assess ID</b>	CSIRO-OROUGHYSE-1978-2007-FULTON
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2007	8149
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	2007	76,800	-	0
SSB	SSB-MT	2007	4230	Both	2
TN	-	-	-	-	-
R	R-E00	2007	5,820,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	0	-	-
TC	-	-	-		
TL	TL-MT	2007	772		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	0.52		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Orange roughy Southeast Australia [OROUGHYSE]

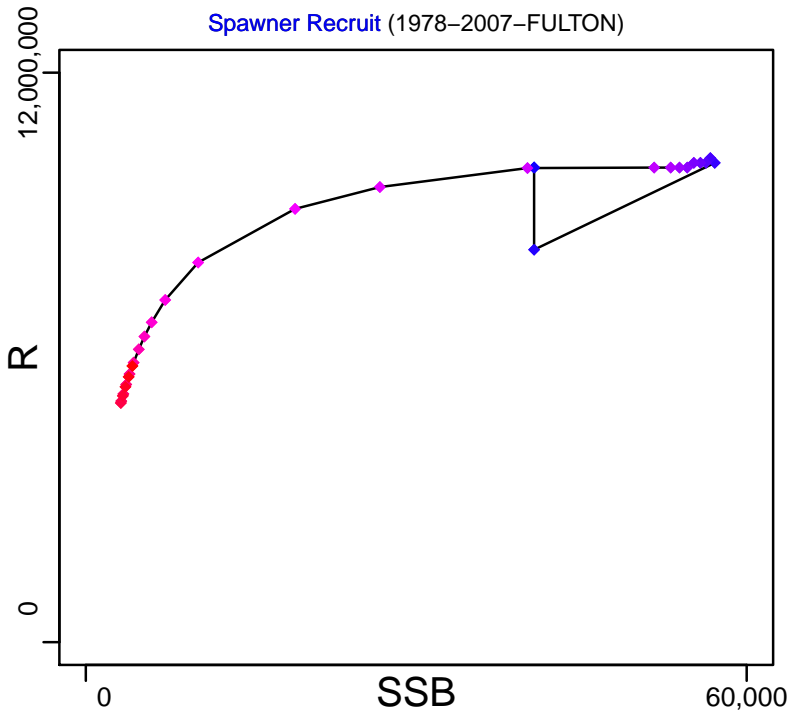
Kobe MSY\*



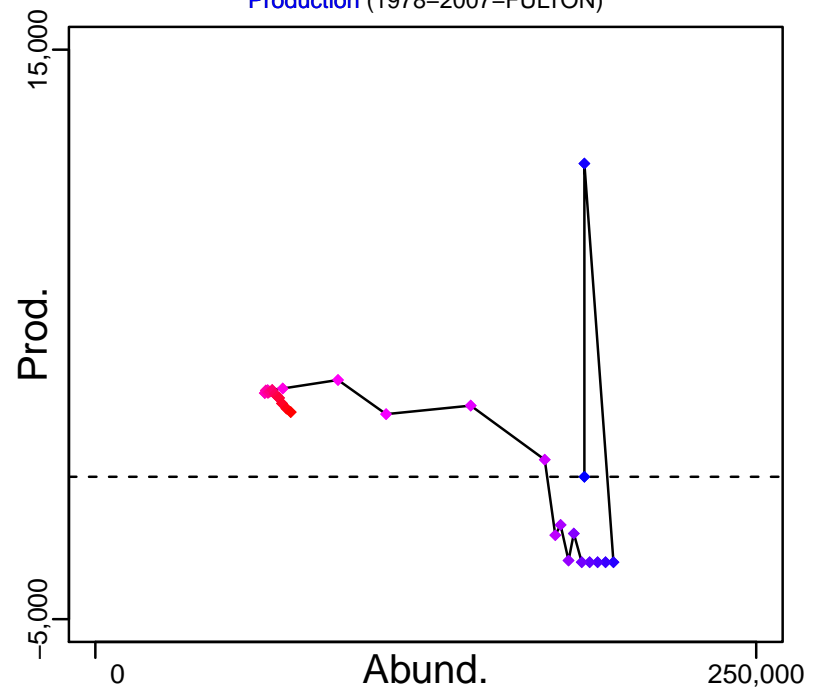
Kobe MGT\*



Spawner Recruit (1978–2007–FULTON)



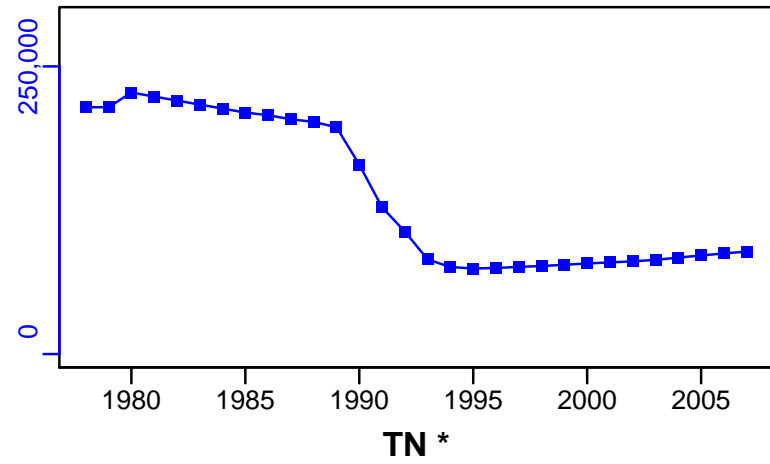
Production (1978–2007–FULTON)



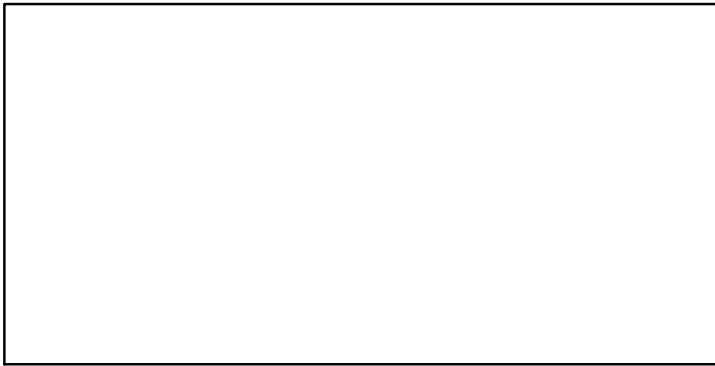
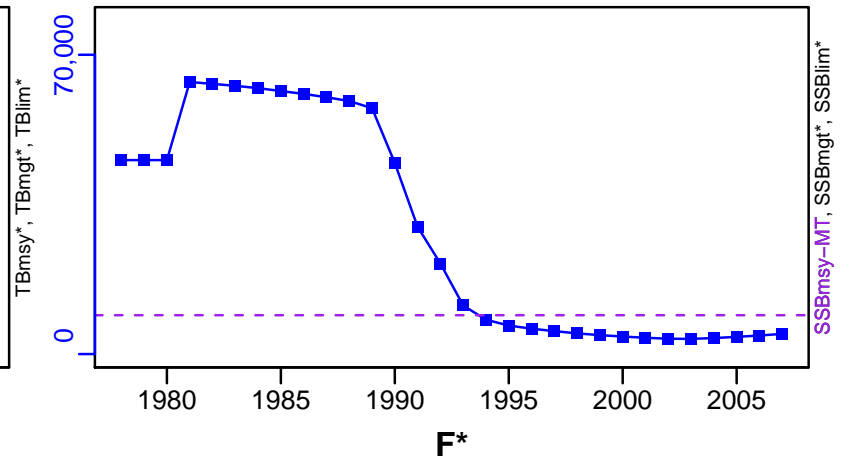
◆ Start Year ◆ End Year \* No Data

# Orange roughy Southeast Australia [OROUGHYSE]

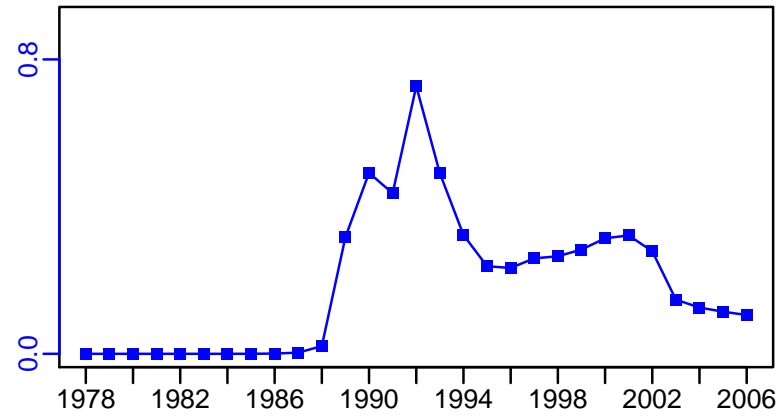
TB-MT (1978–2007–FULTON)



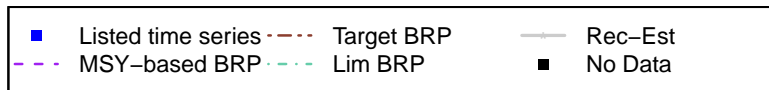
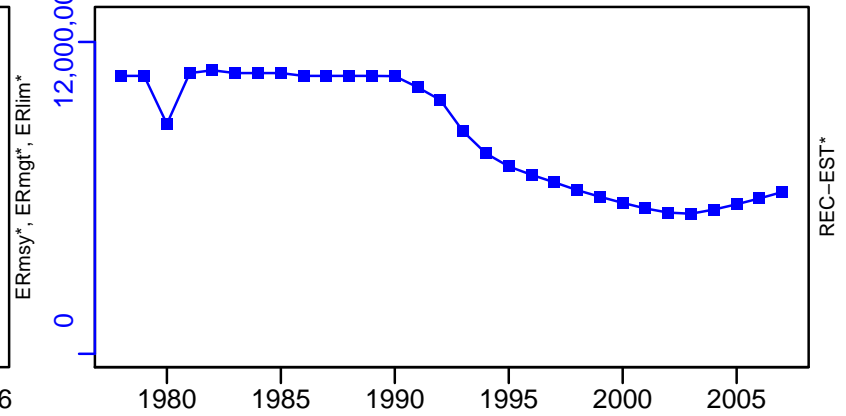
SSB-MT (1978–2007–FULTON)



ER-ratio (1978–2007–FULTON)

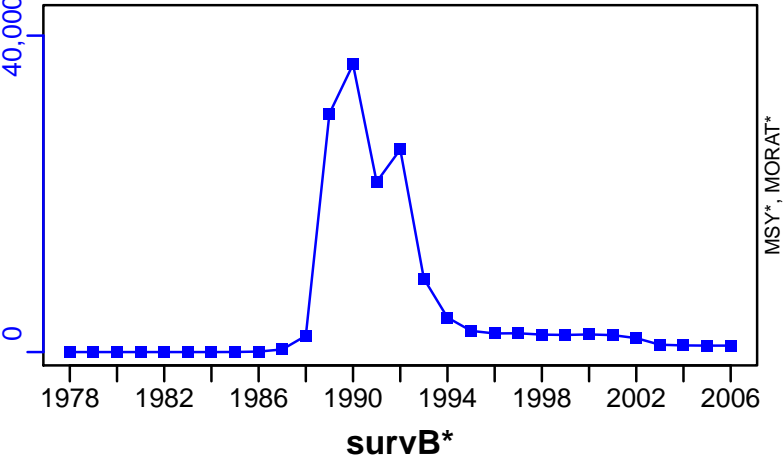


R-E00 (1978–2007–FULTON)



Orange roughy Southeast Australia [OROUGHYSE]

TL-MT, TC\*, RecC\* (1978-2007-FULTON)



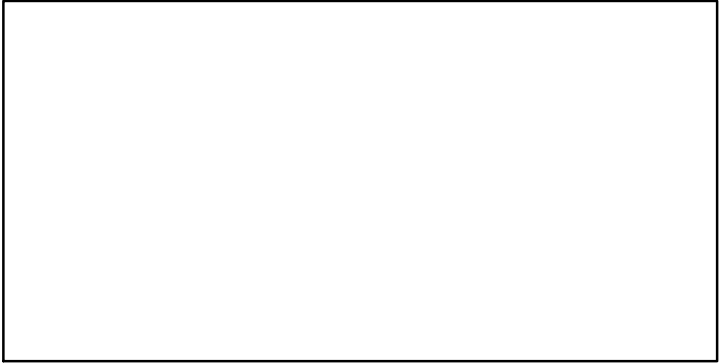
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Patagonian toothfish Macquarie Island [PTOOTHFISHMI]

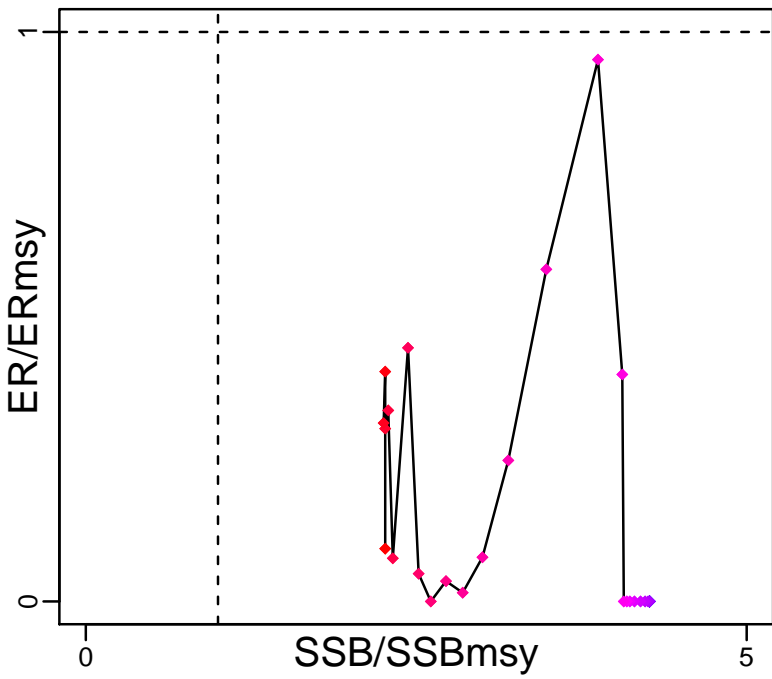
Metadata	
<b>Scientific Name</b>	Dissostichus eleginoides
<b>Current Assess ID</b>	CSIRO-PTOOTHFISHMI-1975-2010-FAY
<b>Area</b>	Macquarie Island
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2010	870
<b>Fmsy</b>	Fmsy-1/yr	2010	0.06
<b>ERmsy</b>	ERmsy-ratio	2010	0.12
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2010	184
<b>M</b>	M-1/yr	2010	0.13
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

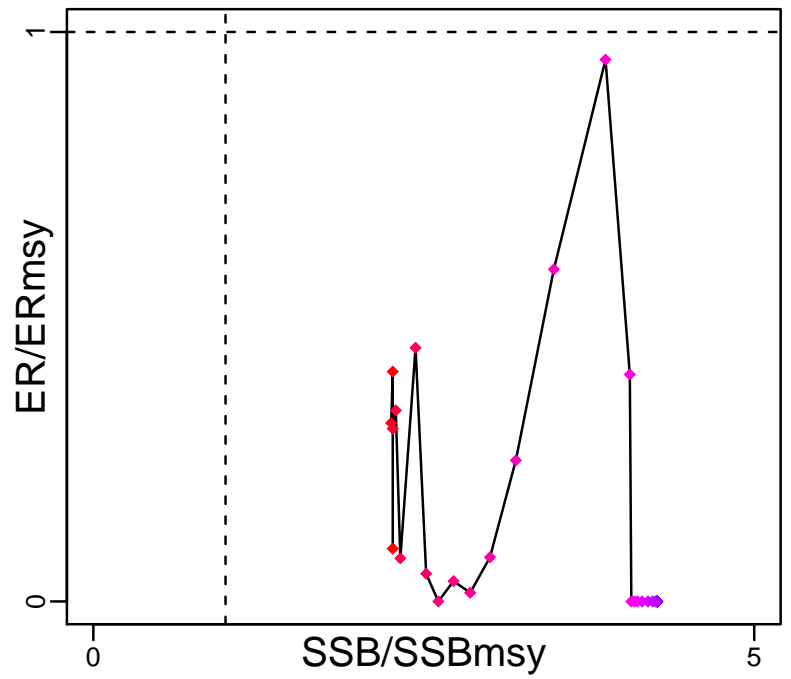
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2010	6170	-	1+
<b>SSB</b>	SSB-MT	2010	2000	Females	14
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2010	430,000	-	0
<b>F</b>	F-1/yr	2010	0	Both	-
<b>ER</b>	ER-ratio	2010	0	-	-
<b>TC</b>	TC-MT	2010	68.7		
<b>TL</b>	TL-MT	2010	68.7		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2010	2.3		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2010	0.19		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2010	0.09		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Patagonian toothfish Macquarie Island [PTOOTHFISHMI]

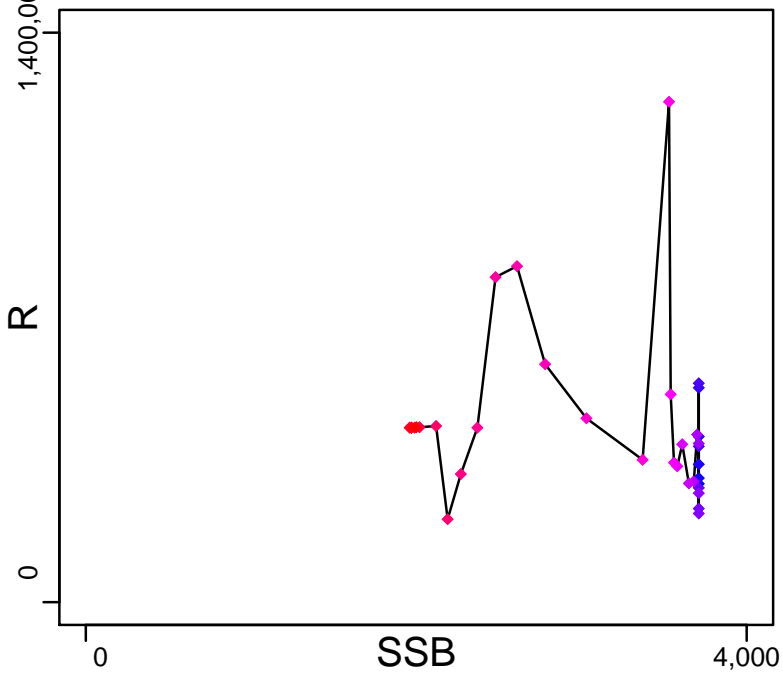
Kobe MSYpref (1975–2010–FAY)



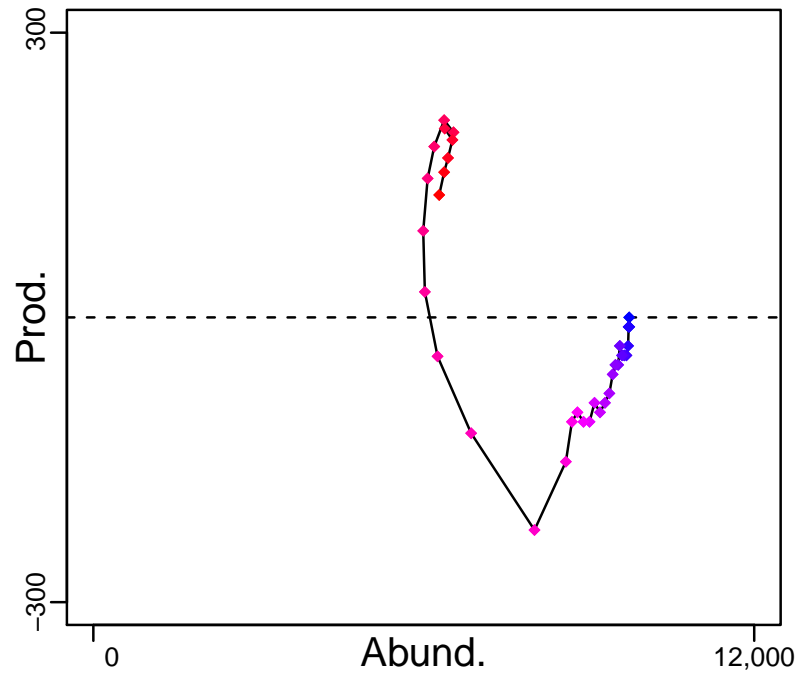
Kobe MGTpref (1975–2010–FAY)



Spawner Recruit (1975–2010–FAY)



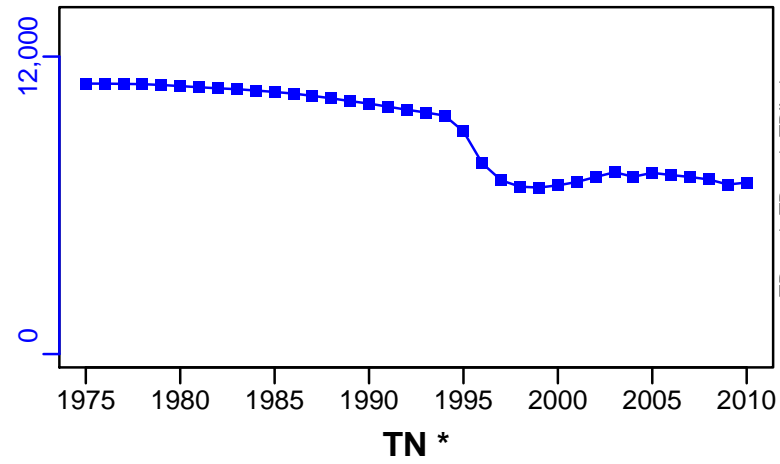
Production (1975–2010–FAY)



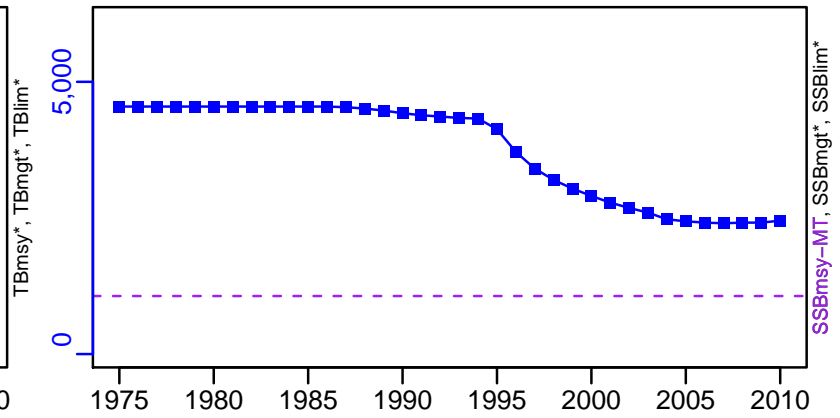
◆ Start Year ◆ End Year \* No Data

# Patagonian toothfish Macquarie Island [PTOOTHFISHMI]

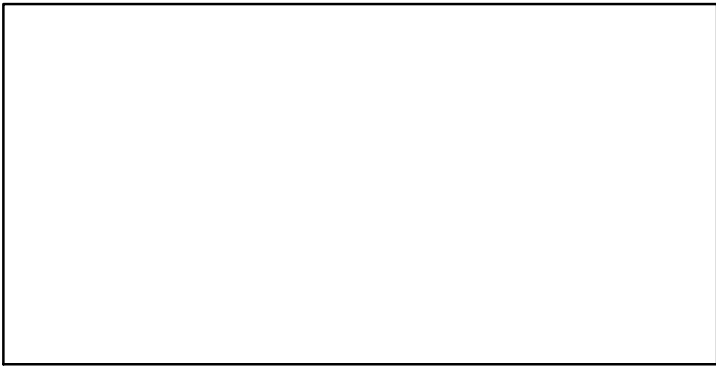
TB-MT (1975–2010–FAY)



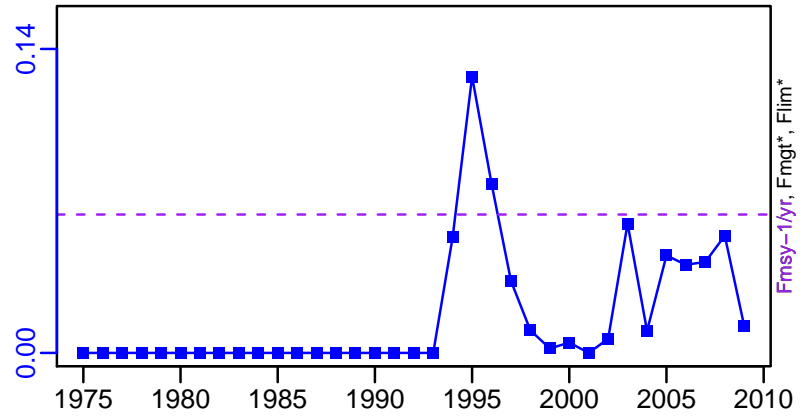
SSB-MT (1975–2010–FAY)



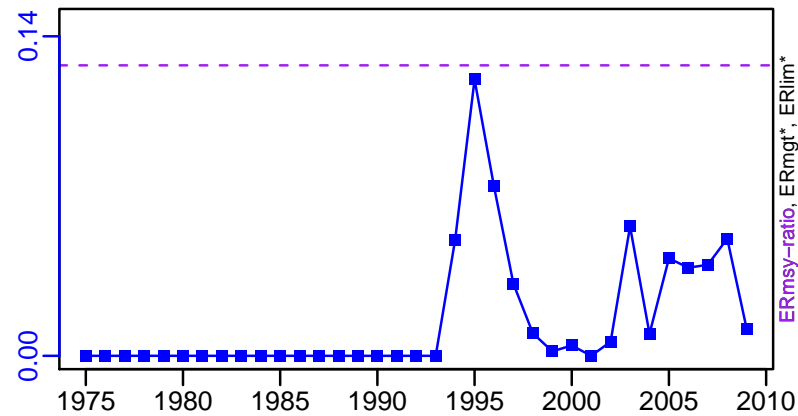
TN \*



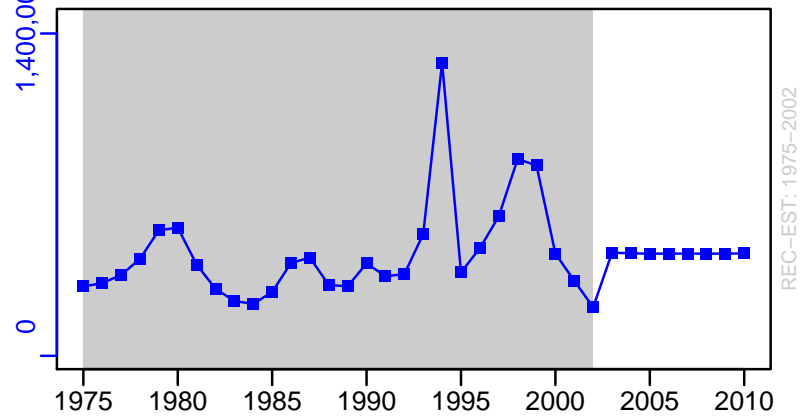
F-1/yr (1975–2010–FAY)



ER-ratio (1975–2010–FAY)



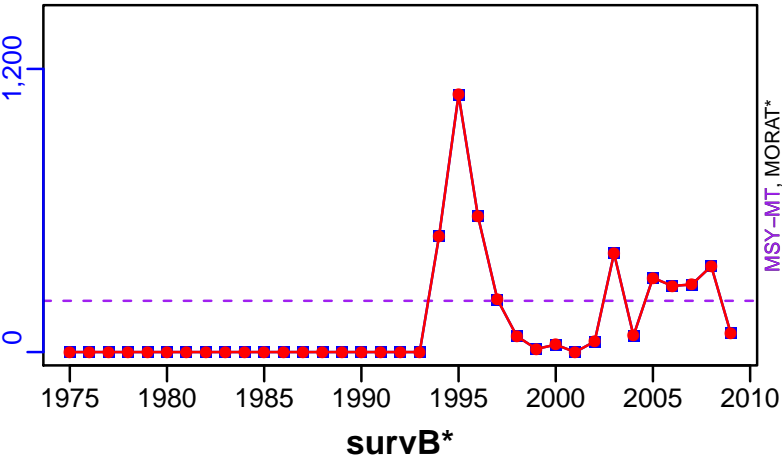
R-E00 (1975–2010–FAY)





Patagonian toothfish Macquarie Island [PTOOTHFISHMI]

TC-MT, TL-MT, RecC\* (1975-2010-FAY)



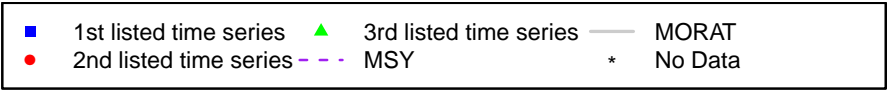
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Redfish Eastern Australia [REDFEAUS]

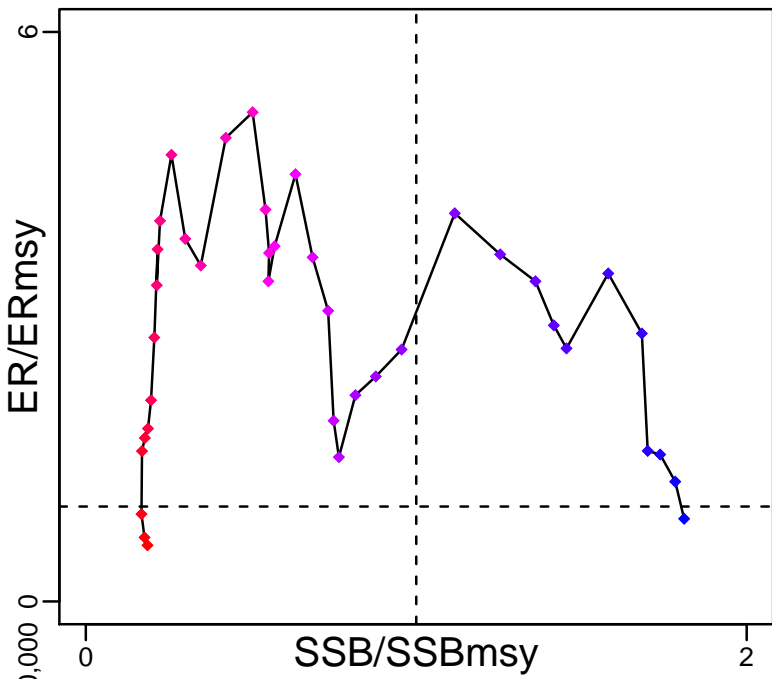
Metadata	
<b>Scientific Name</b>	Centroberyx affinis
<b>Current Assess ID</b>	CSIRO-REDFEAUS-1975-2013-MOESENER
<b>Area</b>	Eastern Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2013

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2013	6988
<b>Fmsy</b>	Fmsy-1/yr	2013	0.05
<b>ERmsy</b>	ERmsy-conv-ratio	2013	0.05
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2013	6988
<b>Fmgt</b>	Fmgt-1/yr	2013	0.05
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2013	31,758
<b>SSB0</b>	SSB0-MT	2013	14,558
<b>MSY</b>	MSY-MT	2013	849
<b>M</b>	M-1/yr	2013	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2013	2912
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

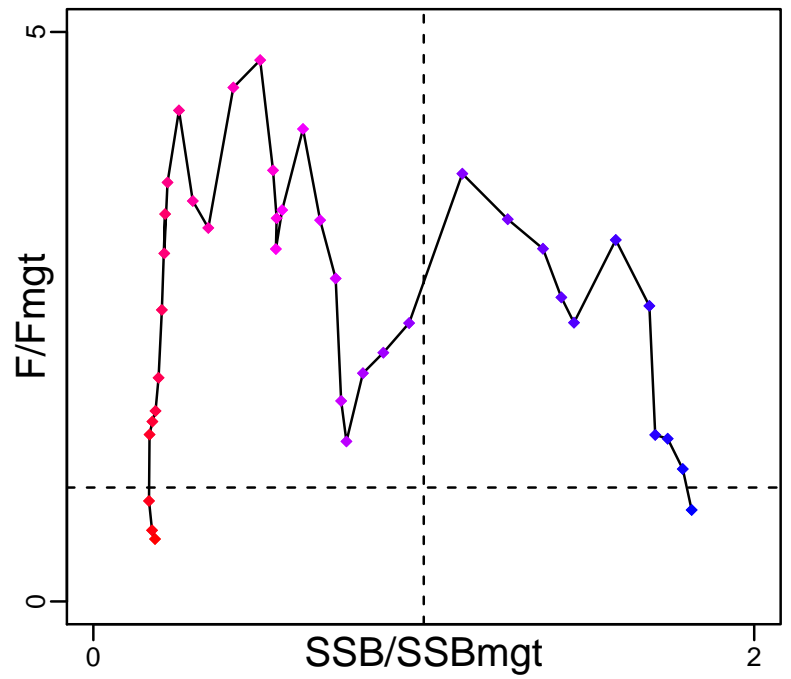
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2013	3920	-	-
<b>SSB</b>	SSB-MT	2013	1300	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2013	$7.58 \times 10^{13}$	-	-
<b>F</b>	F-1/yr	2013	0	-	-
<b>ER</b>	ER-ratio	2013	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2013	108		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2013	0.19		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2013	0.55		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2013	0.59		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2013	0.19		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2013	0.55		
<b>ER/ERmgt</b>	-	-	-		

# Redfish Eastern Australia [REDFEAUS]

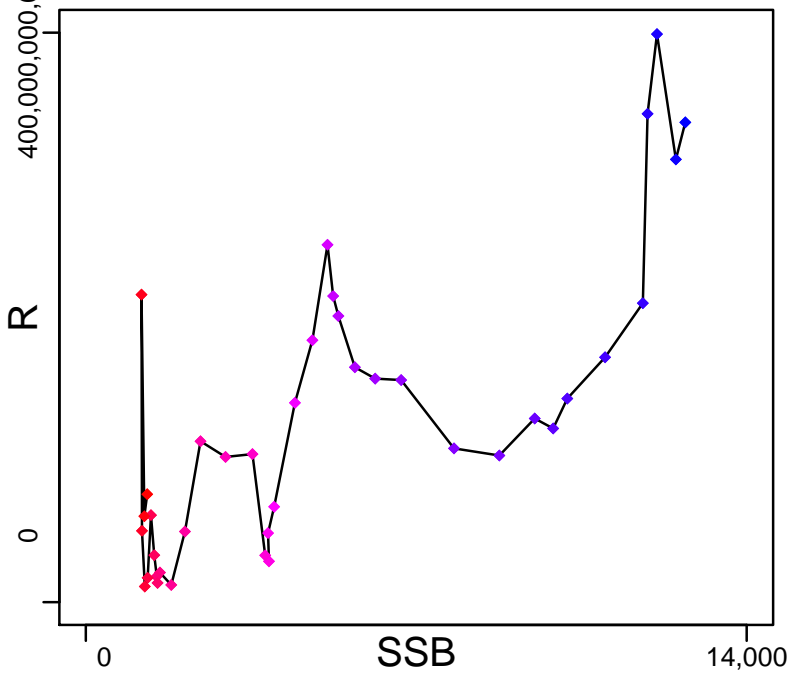
Kobe MSYpref (1975–2013–MOESENEDER)



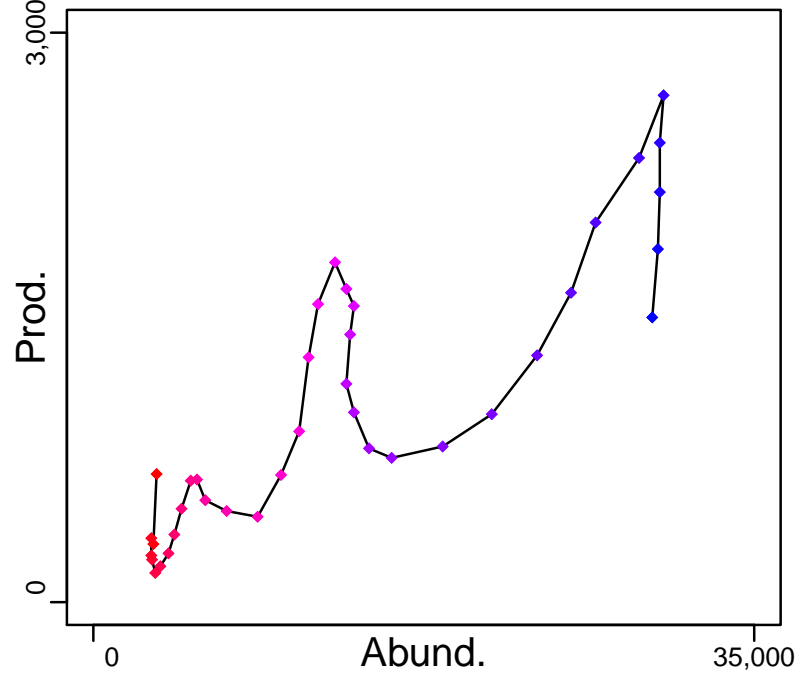
Kobe MGTpref (1975–2013–MOESENEDER)



Spawner Recruit (1975–2013–MOESENEDER)



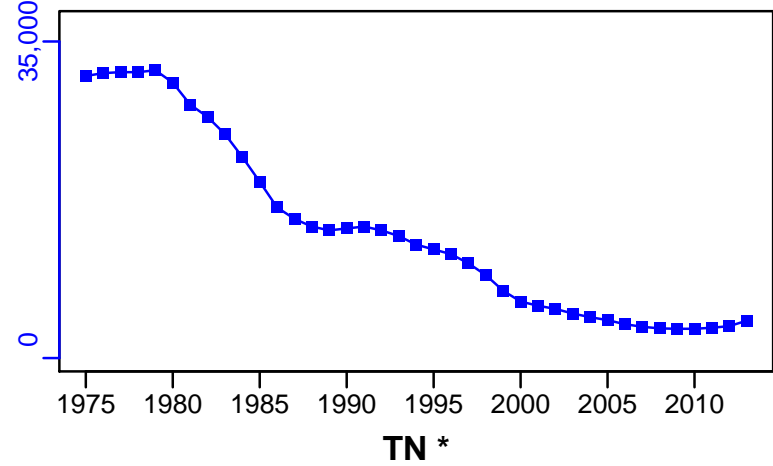
Production (1975–2013–MOESENEDER)



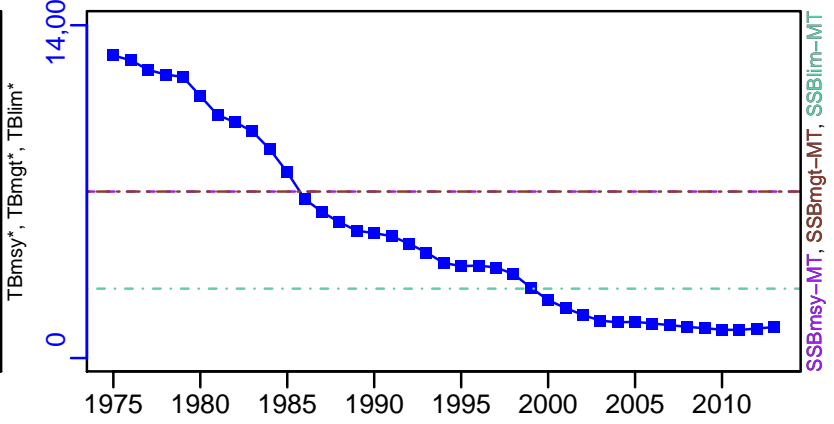
◆ Start Year ◆ End Year \* No Data

# Redfish Eastern Australia [REDFEAUS]

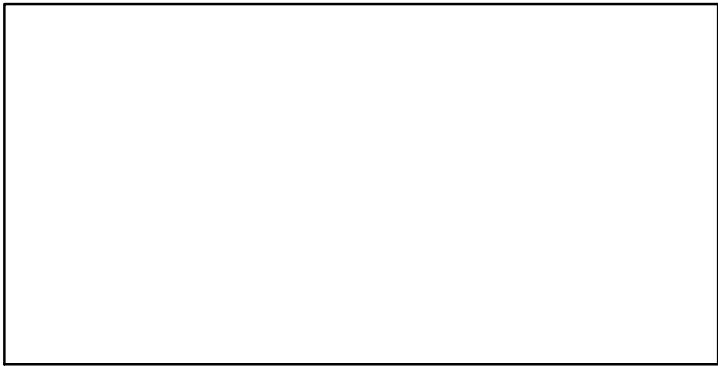
TB-MT (1975-2013-MOESENEDER)



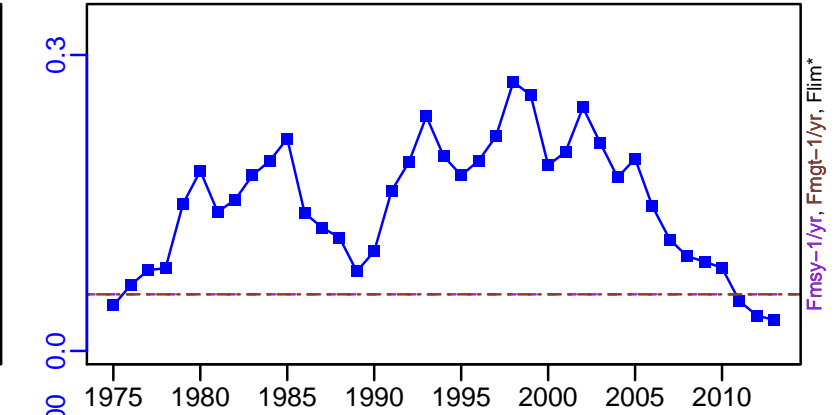
SSB-MT (1975-2013-MOESENEDER)



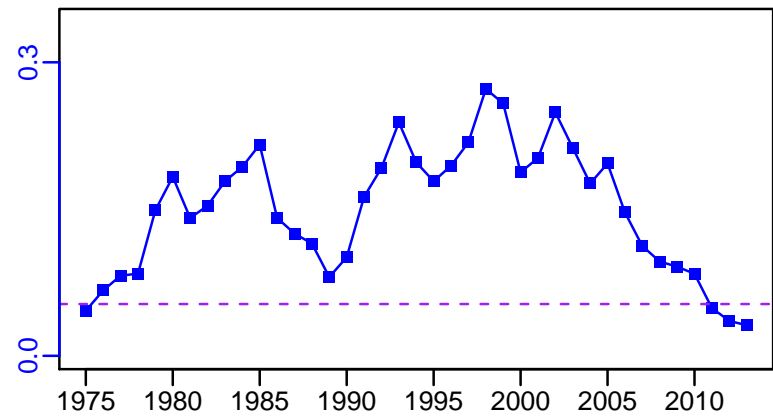
TN \*



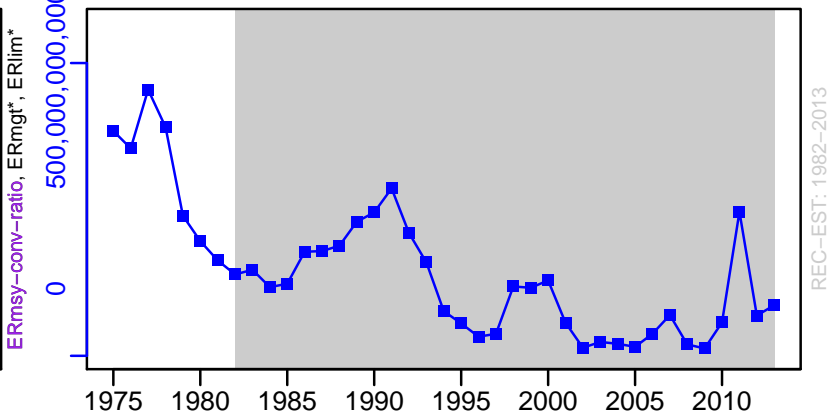
F-1/yr (1975-2013-MOESENEDER)



ER-ratio (1975-2013-MOESENEDER)

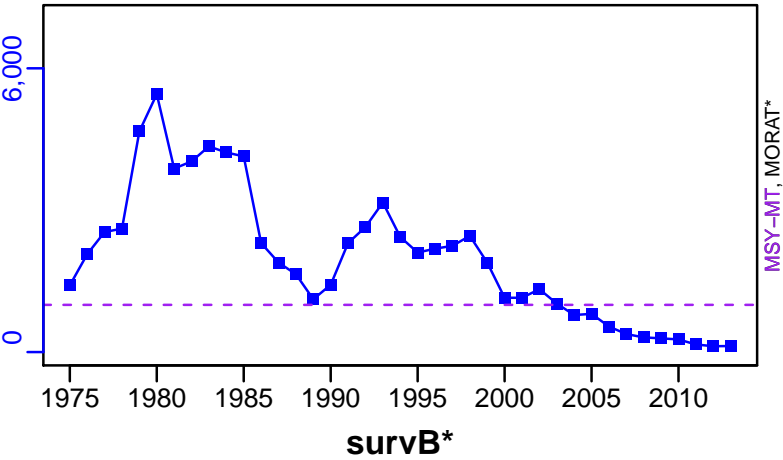


R-E00 (1975-2013-MOESENEDER)



Redfish Eastern Australia [REDFEAUS]

TL-MT, TC\*, RecC\* (1975-2013-MOESENER)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Rock Lobster South Australia Northern Zone [RROCKLOBSTERSAUSNZ]

Metadata	
Scientific Name	Jasus edwardsii
Current Assess ID	SARDI-RROCKLOBSTERSAUSNZ-1966-2010-BANOBI
Area	South Australia Northern Zone
Management Authority	South Australian Research and Development Institute
Assessor	South Australian Research and Development Institute
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	1750	-	-
SSB	SSB-E00eggs	2010	$2.02 \times 10^{11}$	-	-
TN	-	-	-	-	-
R	R-E00	2010	1,180,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	-	-	-		
TL	TL-MT	2010	312		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Rock Lobster South Australia Northern Zone [RROCKLOBSTERSAUSNZ]

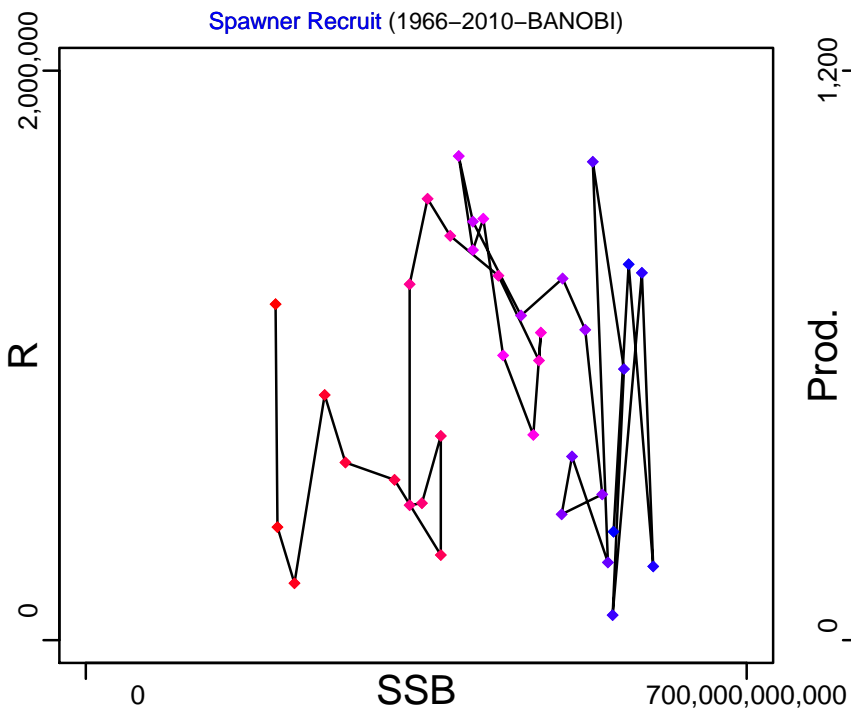
Kobe MSY\*



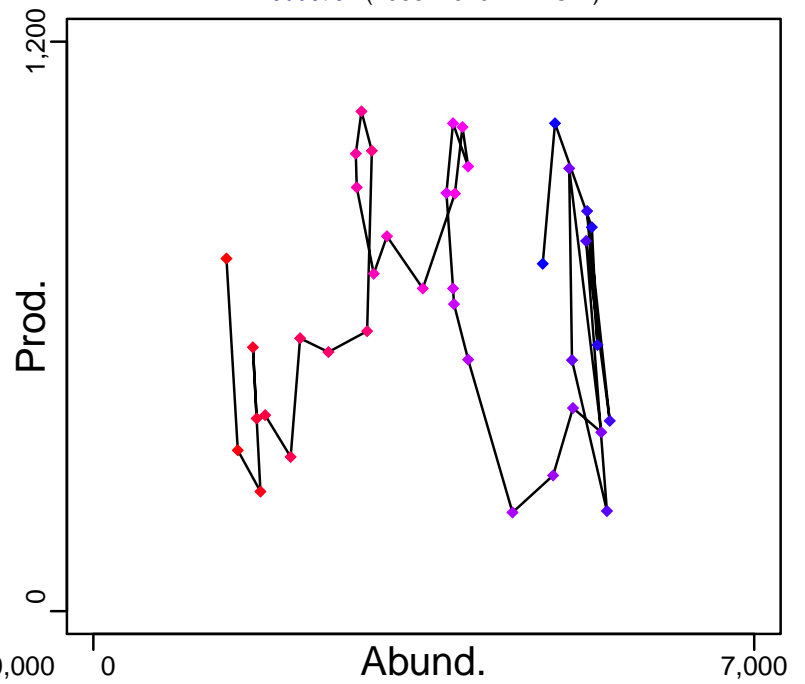
Kobe MGT\*



Spawner Recruit (1966–2010–BANOB)



Production (1966–2010–BANOB)

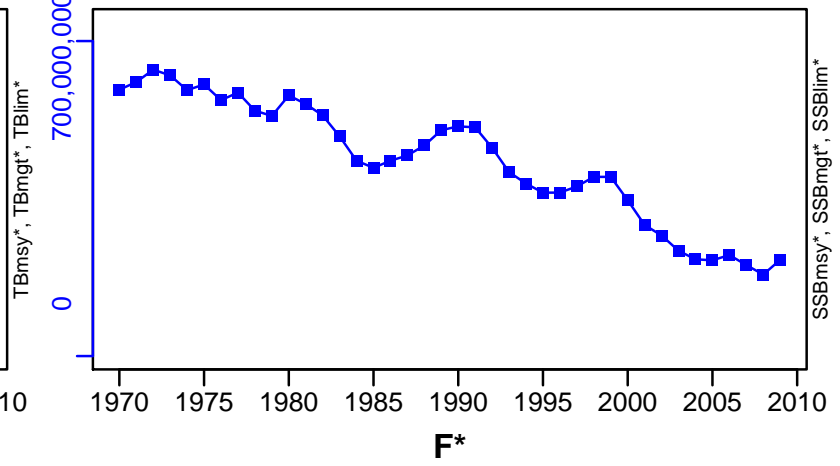
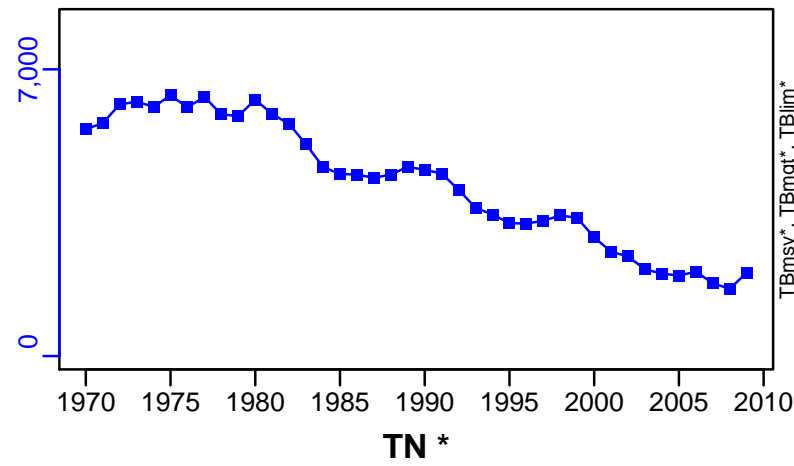


◆ Start Year ◆ End Year \* No Data

# Rock Lobster South Australia Northern Zone [RROCKLOBSTERSAUSNZ]

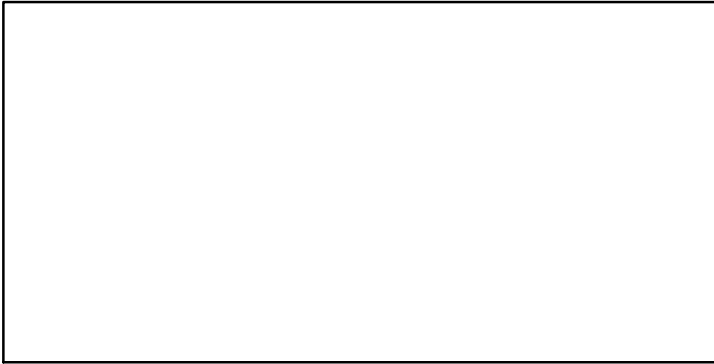
TB-MT (1966-2010-BANOBI)

SSB-E00eggs (1966-2010-BANOBI)



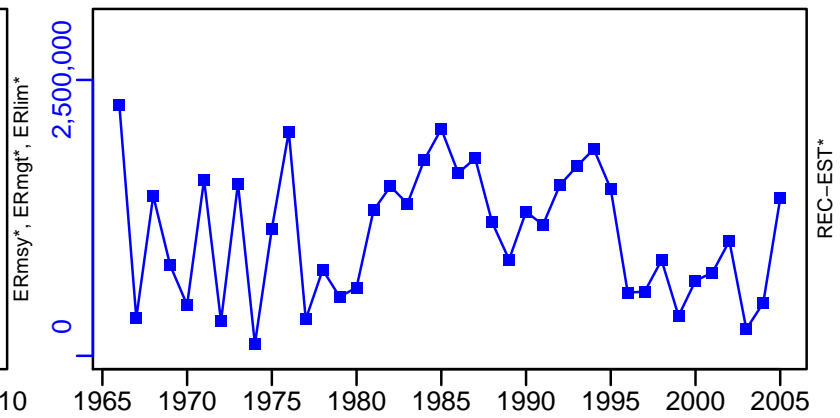
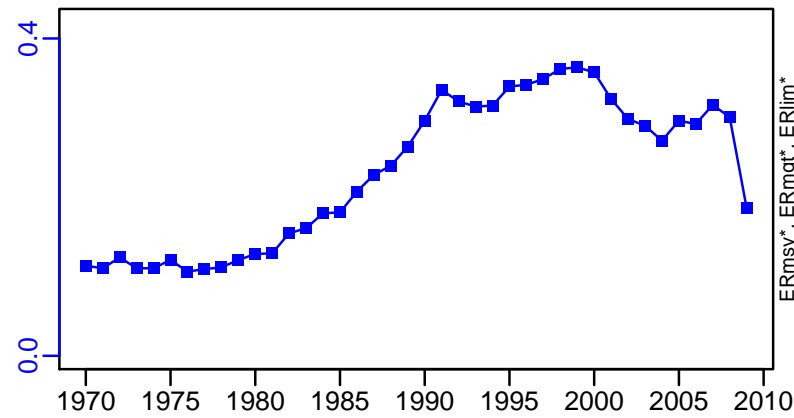
TN \*

F\*



ER-ratio (1966-2010-BANOBI)

R-E00 (1966-2010-BANOBI)

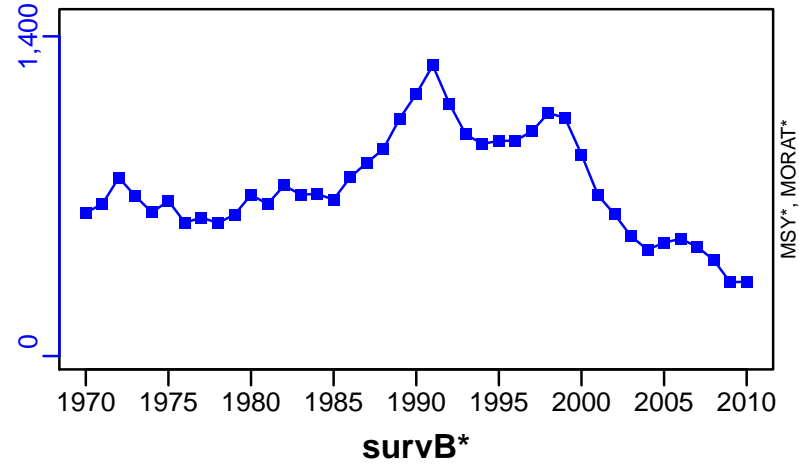




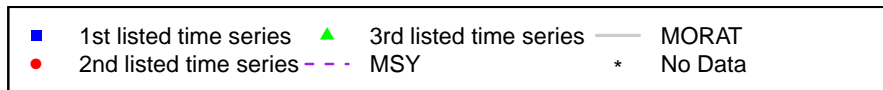
# Rock Lobster South Australia Northern Zone [RROCKLOBSTERSAUSNZ]

TL-MT, TC\*, RecC\* (1966–2010–BANOB)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Rock Lobster South Australia Southern Zone [RROCKLOBSTERSAUSSZ]

Metadata	
Scientific Name	Jasus edwardsii
Current Assess ID	SARDI-RROCKLOBSTERSAUSSZ-1965-2010-BANOBI
Area	South Australia Southern Zone
Management Authority	South Australian Research and Development Institute
Assessor	South Australian Research and Development Institute
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

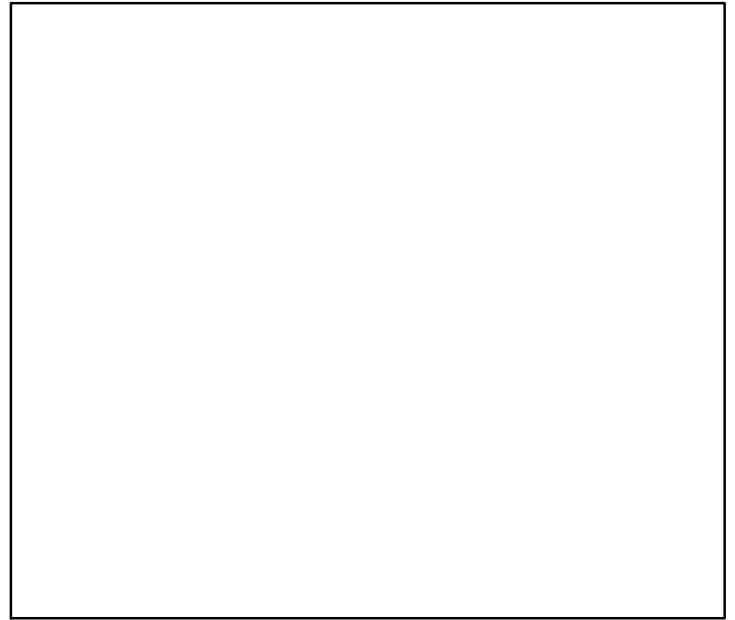
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	1790	-	-
SSB	SSB-E00eggs	2010	$2.73 \times 10^{11}$	-	-
TN	-	-	-	-	-
R	R-E00	2010	1,600,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	1	-	-
TC	-	-	-		
TL	TL-MT	2010	1240		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Rock Lobster South Australia Southern Zone [RROCKLOBSTERSAUSSZ]

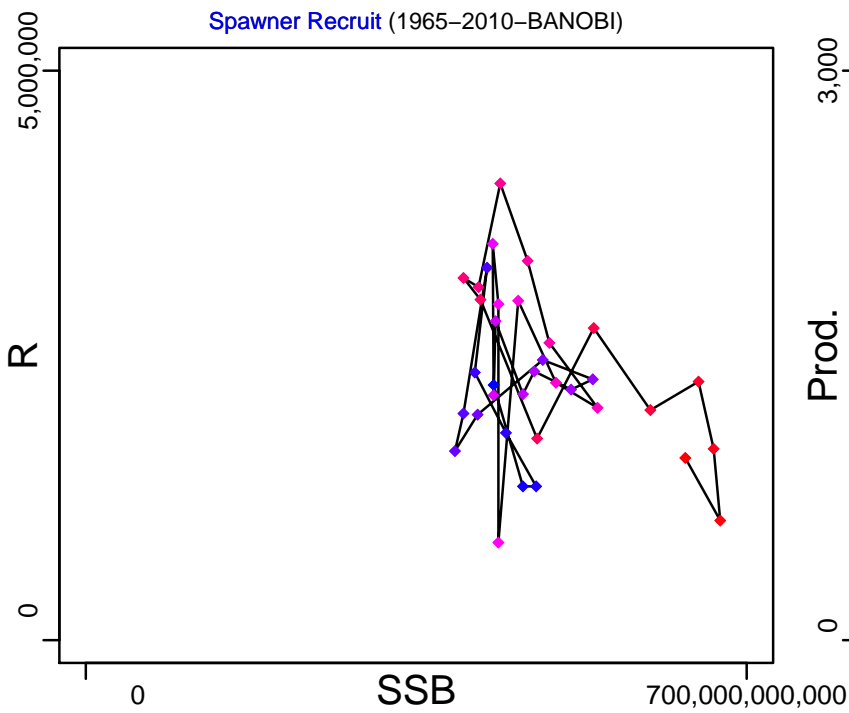
Kobe MSY\*



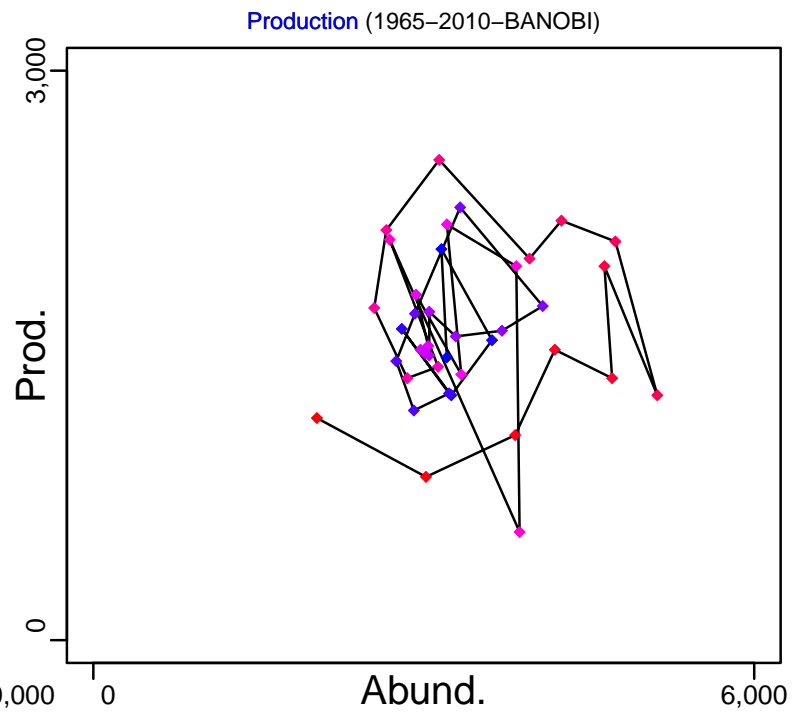
Kobe MGT\*



Spawner Recruit (1965–2010–BANOB)



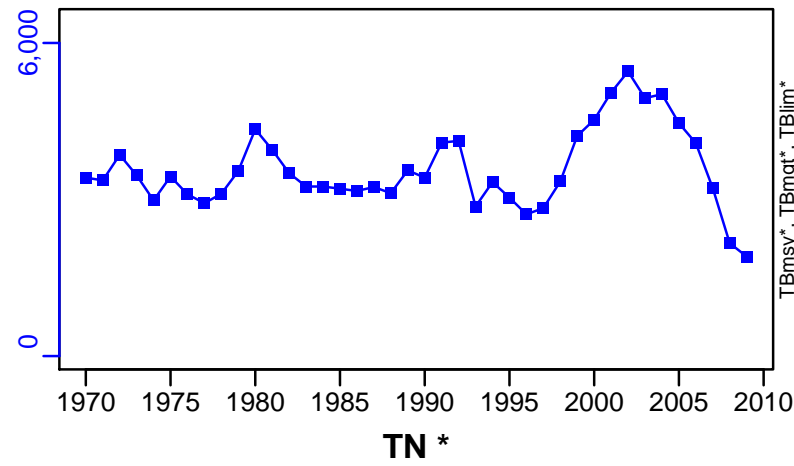
Production (1965–2010–BANOB)



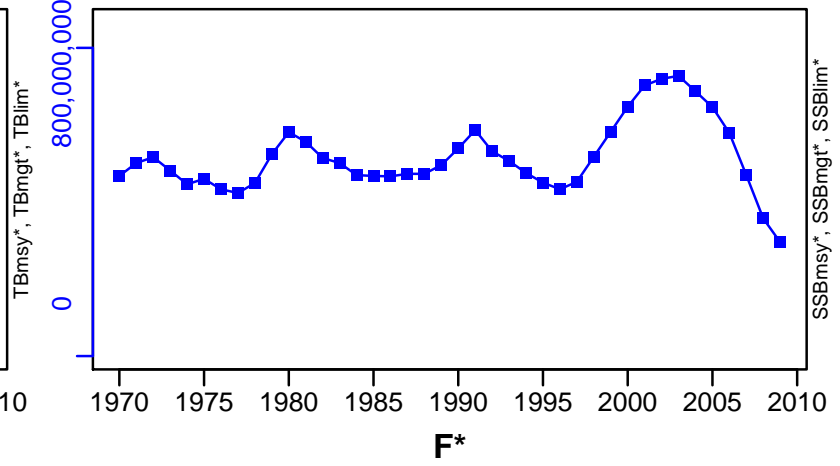
◆ Start Year ◆ End Year \* No Data

# Rock Lobster South Australia Southern Zone [RROCKLOBSTERSAUSSZ]

TB-MT (1965–2010–BANOB1)



SSB-E00eggs (1965–2010–BANOB1)

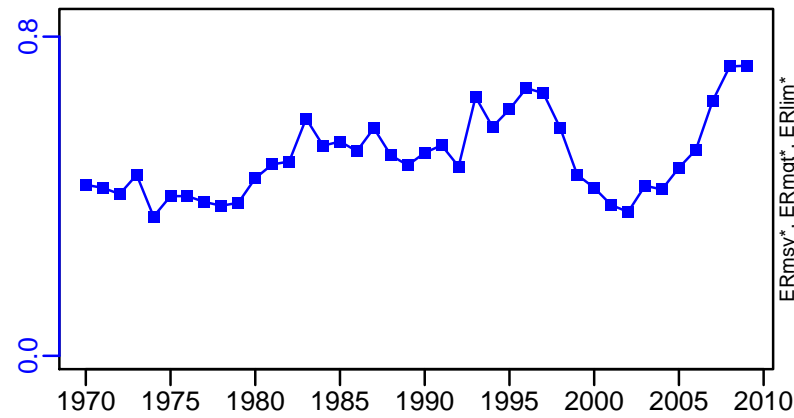


TN \*

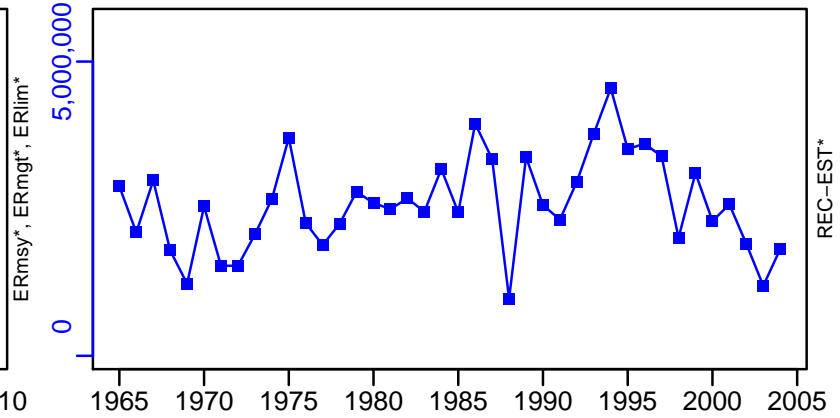
F\*



ER-ratio (1965–2010–BANOB1)



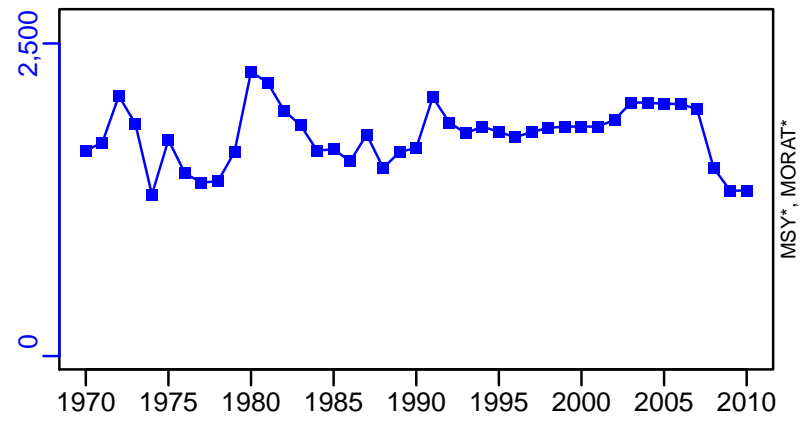
R-E00 (1965–2010–BANOB1)



# Rock Lobster South Australia Southern Zone [RROCKLOBSTERSAUSSZ]

TL-MT, TC\*, RecC\* (1965-2010-BANOBI)

TAC\*, Cpair\*, Cadv\*



survB\*

CPUE\*

EFFORT\*

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

## Silverfish Southeast Australia [SILVERFISHSE]

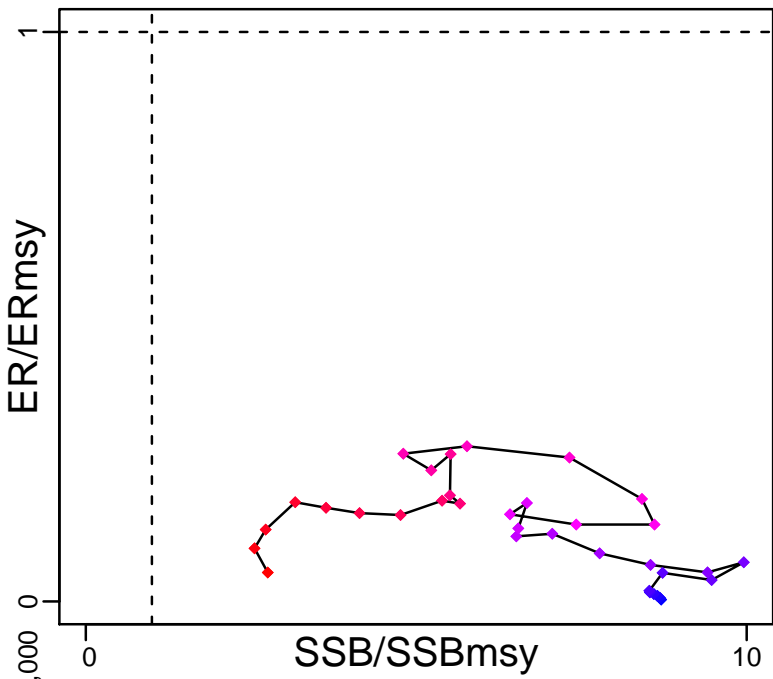
Metadata	
<b>Scientific Name</b>	Seriolella punctata
<b>Current Assess ID</b>	CSIRO-SILVERFISHSE-1980-2014-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2006, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2014	2686
<b>Fmsy</b>	Fmsy-1/yr	2014	0.42
<b>ERmsy</b>	ERmsy-conv-ratio	2014	0.64
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2014	11,223
<b>Fmgt</b>	Fmgt-1/yr	2014	0.13
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2014	31,666
<b>SSB0</b>	SSB0-MT	2014	23,381
<b>MSY</b>	MSY-MT	2014	2686
<b>M</b>	M-1/yr	2014	0.3
<b>TBlim</b>	TBlim-MT	2006	4136
<b>SSBlim</b>	SSBlim-MT	2014	4676
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

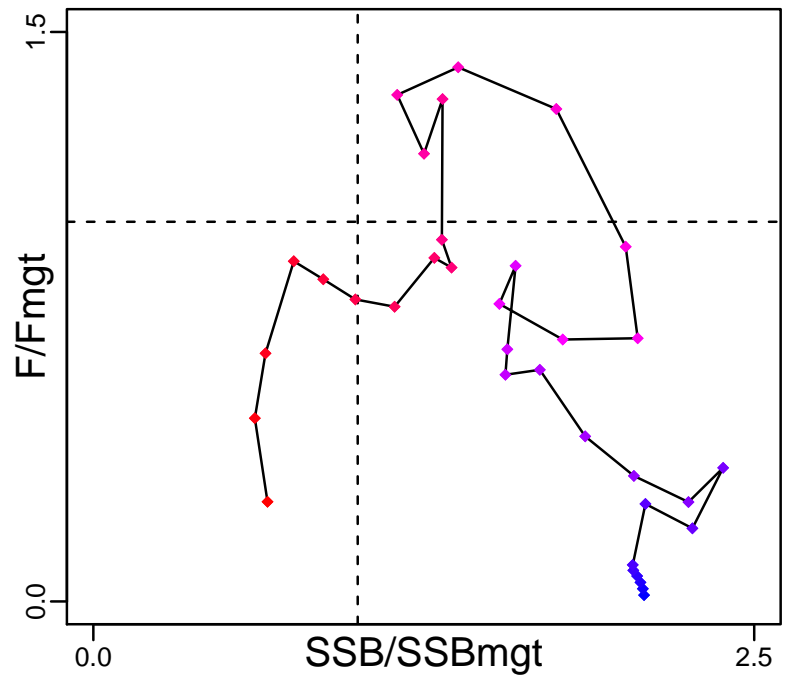
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	12,700	-	-
<b>SSB</b>	SSB-MT	2014	7390	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2014	$1.28 \times 10^{13}$	-	-
<b>F</b>	F-1/yr	2014	0	-	-
<b>ER</b>	ER-ratio	2014	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2014	381		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2014	2.75		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2014	0.08		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2014	0.05		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2014	0.66		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	0.26		
<b>ER/ERmgt</b>	-	-	-		

# Silverfish Southeast Australia [SILVERFISHSE]

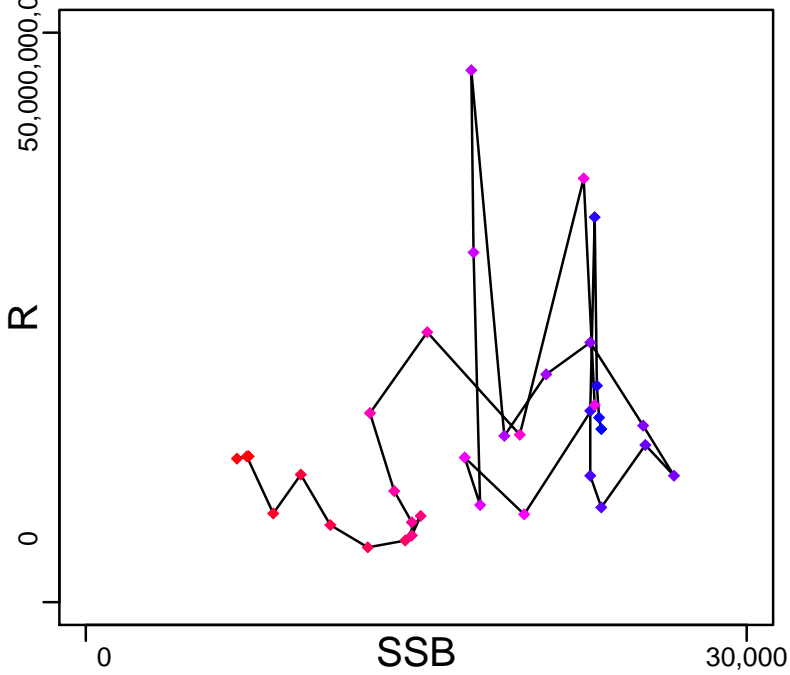
Kobe MSYpref (1980–2014–MOESENEDER)



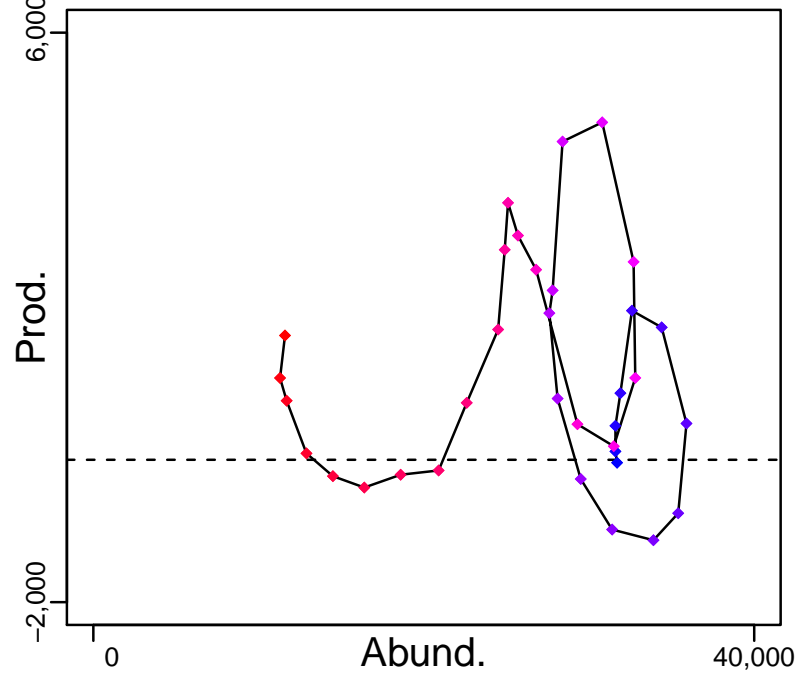
Kobe MGTpref (1980–2014–MOESENEDER)



Spawner Recruit (1980–2014–MOESENEDER)



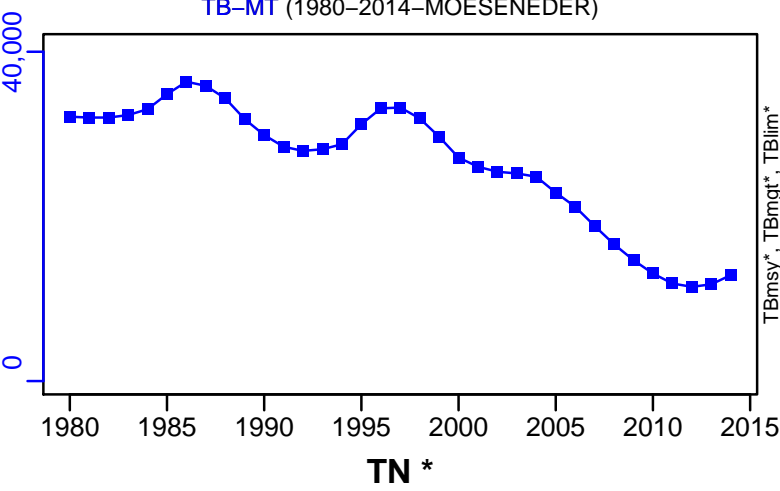
Production (1980–2014–MOESENEDER)



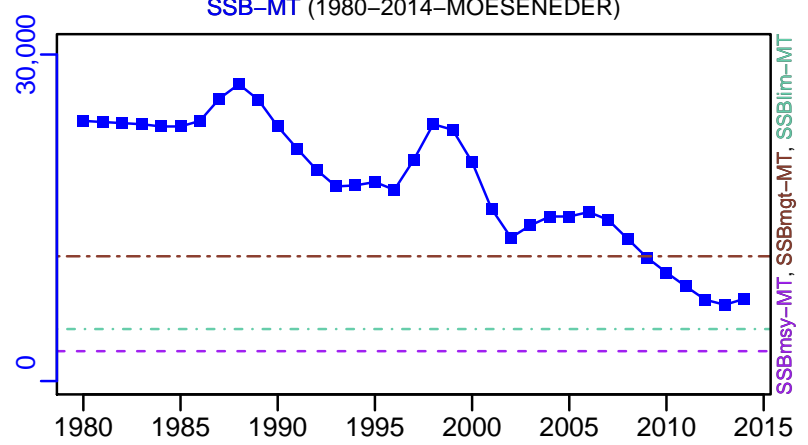
◆ Start Year ◆ End Year \* No Data

# Silverfish Southeast Australia [SILVERFISHSE]

TB-MT (1980-2014-MOESENER)



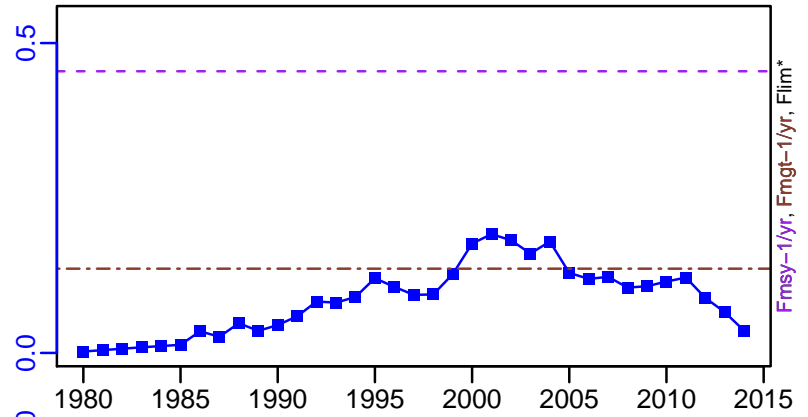
SSB-MT (1980-2014-MOESENER)



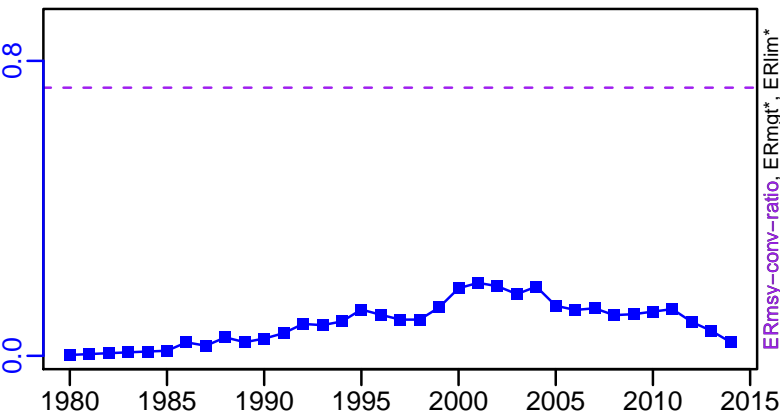
TN \*



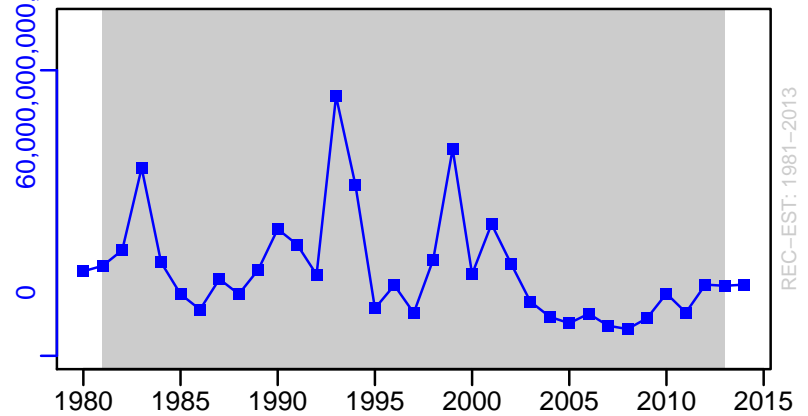
F-1/yr (1980-2014-MOESENER)



ER-ratio (1980-2014-MOESENER)



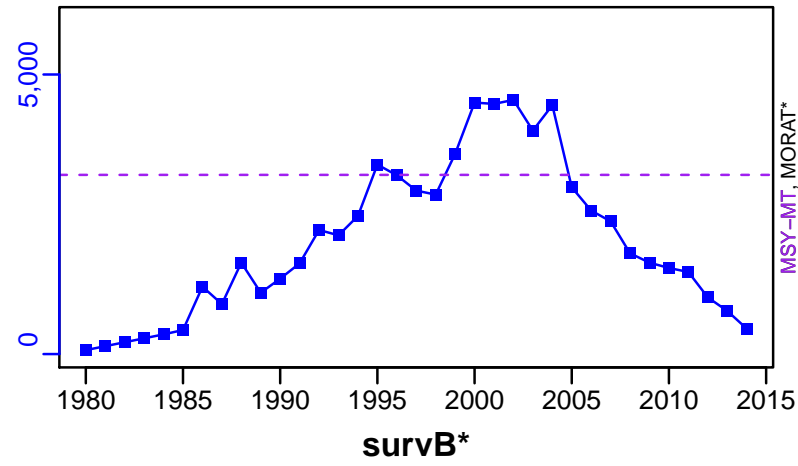
R-E00 (1980-2014-MOESENER)





# Silverfish Southeast Australia [SILVERFISHSE]

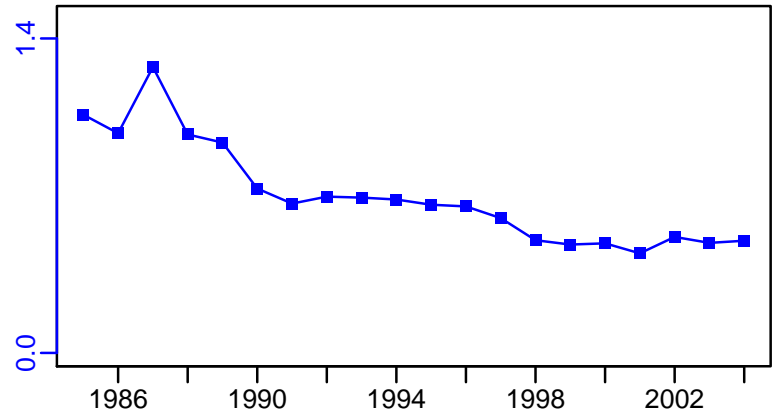
TL-MT, TC\*, RecC\* (1980-2014-MOESENER)



TAC\*, Cpair\*, Cadv\*



CPUEstand-C/E (1978-2006-FULTON)



EFFORT\*

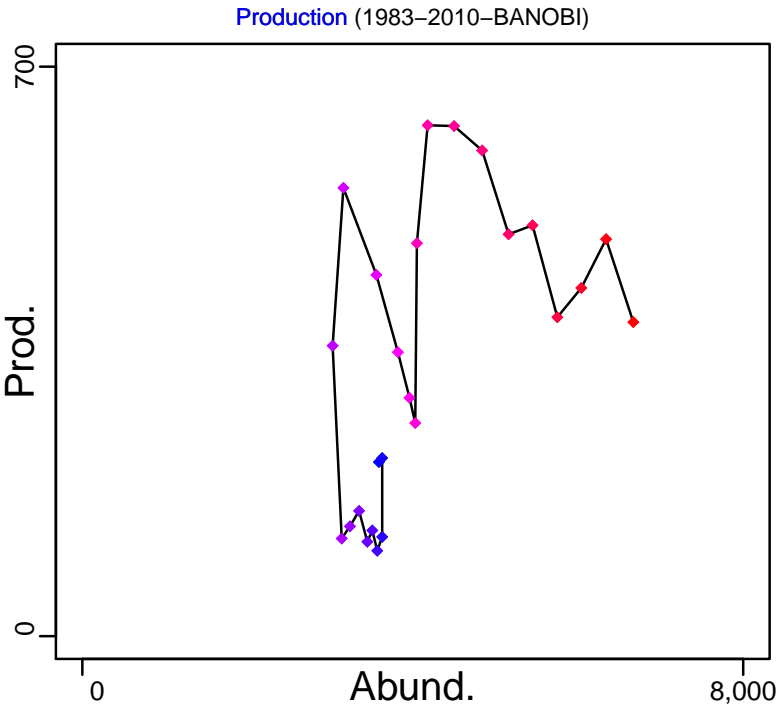
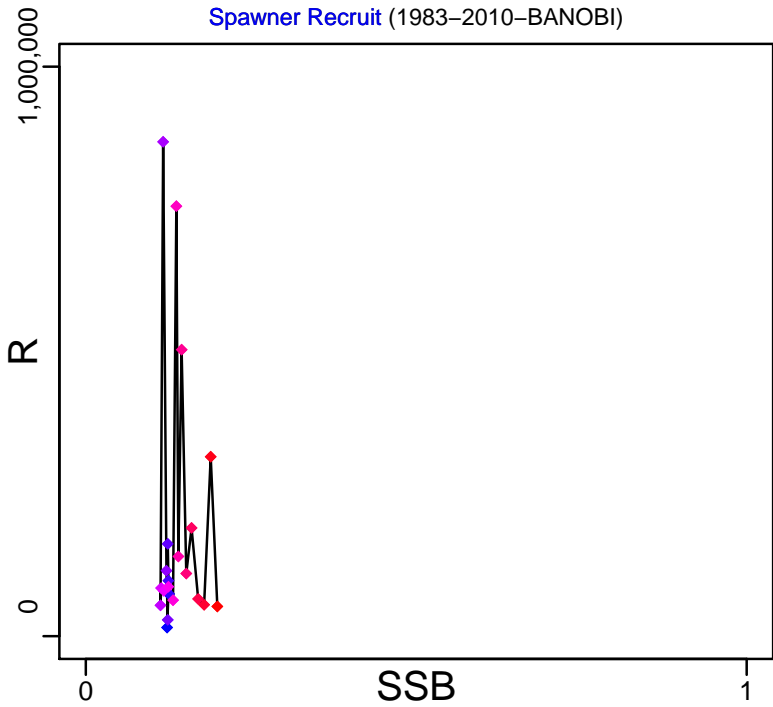
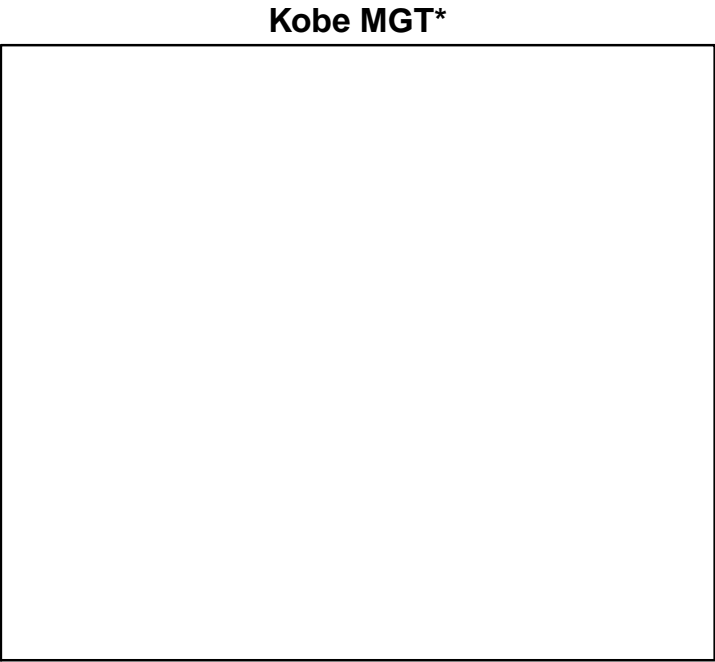


## Snapper Northern Spencer Gulf [SNAPSAUSNSG]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSNSG-1983-2010-BANOBI
<b>Area</b>	Northern Spencer Gulf
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

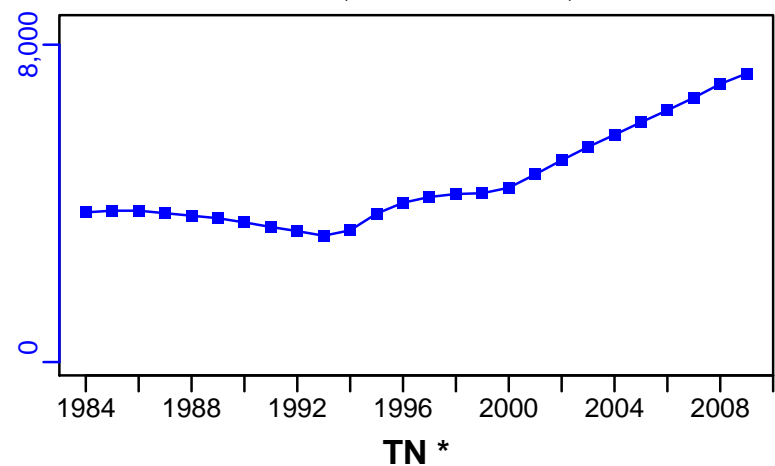
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	6920	-	-
SSB	SSB-relative	2010	0	-	-
TN	-	-	-	-	-
R	R-E00	2010	52,200	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	-	-	-		
TL	TL-MT	2010	183		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



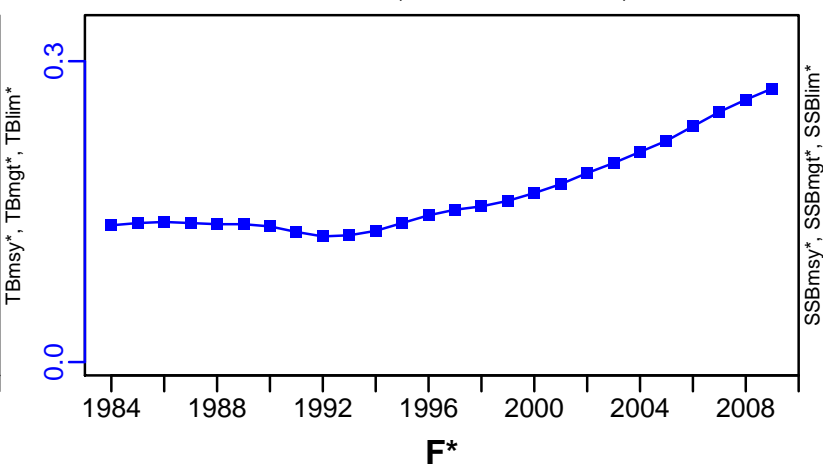
◆ Start Year ◆ End Year \* No Data

# Snapper Northern Spencer Gulf [SNAPSAUSNSG]

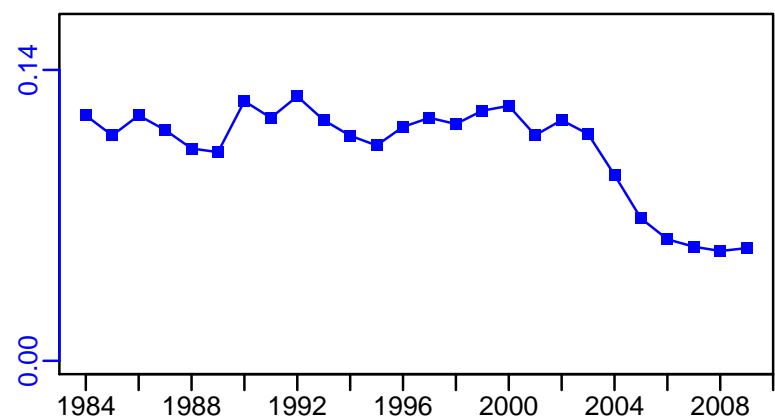
TB-MT (1983-2010-BANOBI)



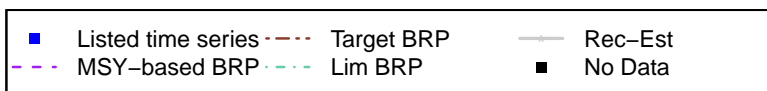
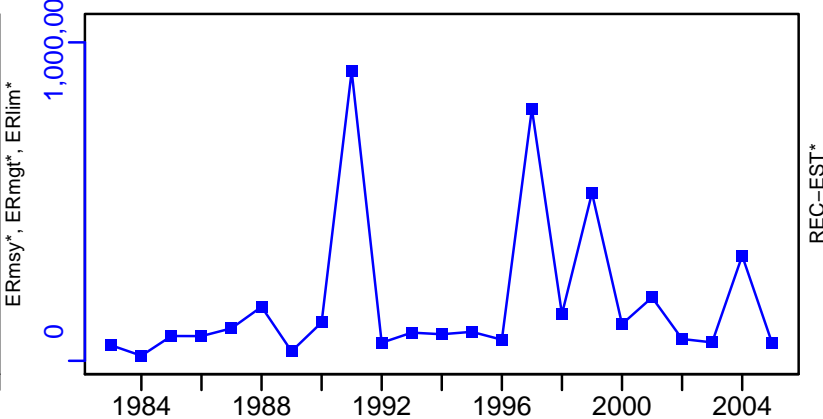
SSB-relative (1983-2010-BANOBI)



ER-ratio (1983-2010-BANOBI)

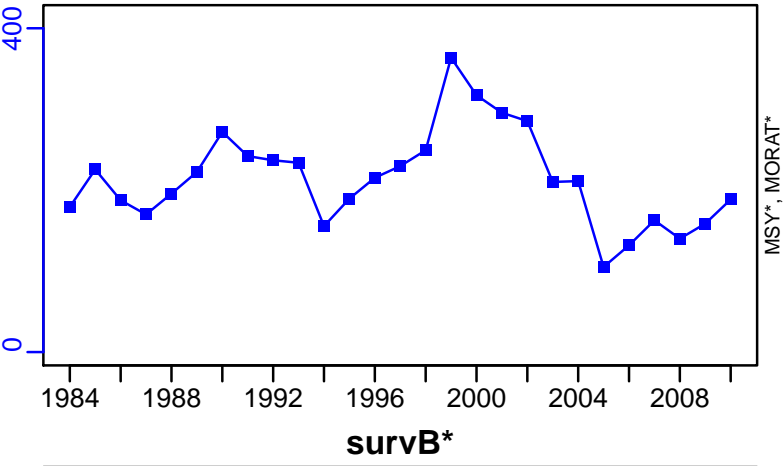


R-E00 (1983-2010-BANOBI)



Snapper Northern Spencer Gulf [SNAPSAUSNSG]

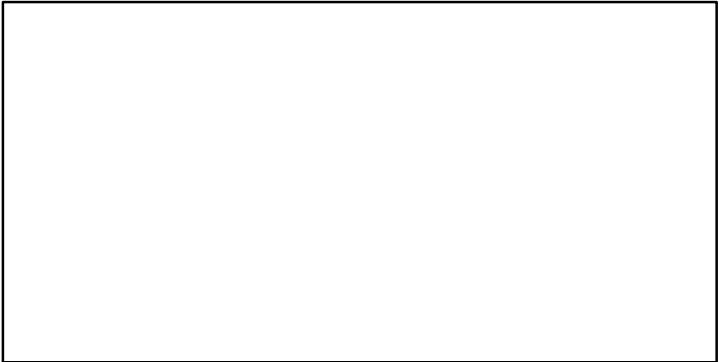
TL-MT, TC\*, RecC\* (1983-2010-BANOBI)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



■ 1st listed time series

● 2nd listed time series

▲ 3rd listed time series

--- MSY

— MORAT

\* No Data

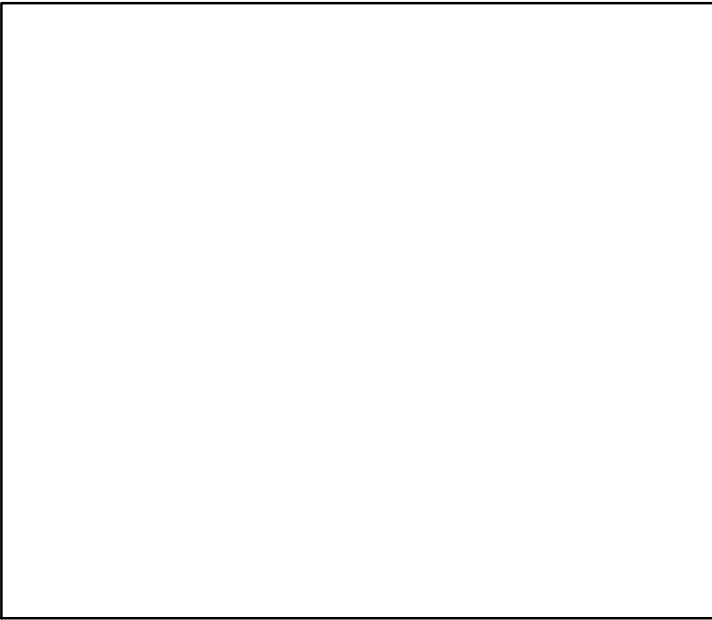
## Snapper Southern Gulf St. Vincent [SNAPSAUSSGSV]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSSGSV-1983-2010-BANOBI
<b>Area</b>	Southern Gulf St. Vincent
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	2920	-	-
SSB	SSB-relative	2010	0	-	-
TN	-	-	-	-	-
R	R-E00	2010	39,700	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	-	-	-		
TL	TL-MT	2010	419		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

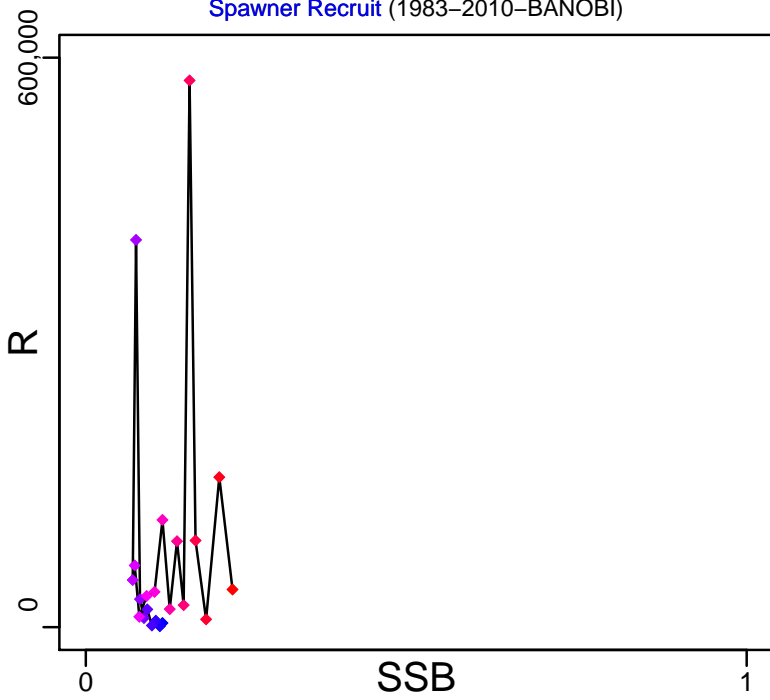
Kobe MSY\*



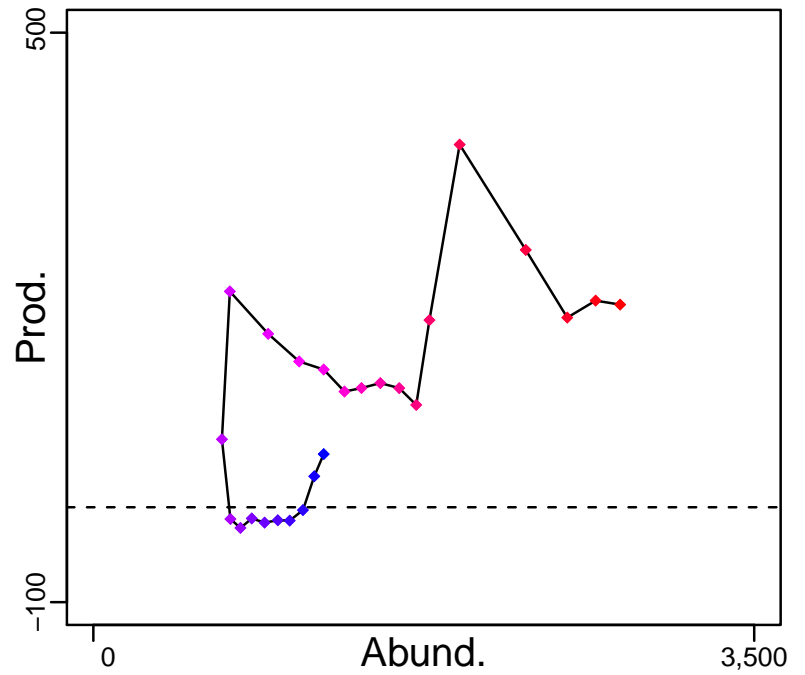
Kobe MGT\*



Spawner Recruit (1983–2010–BANOB)



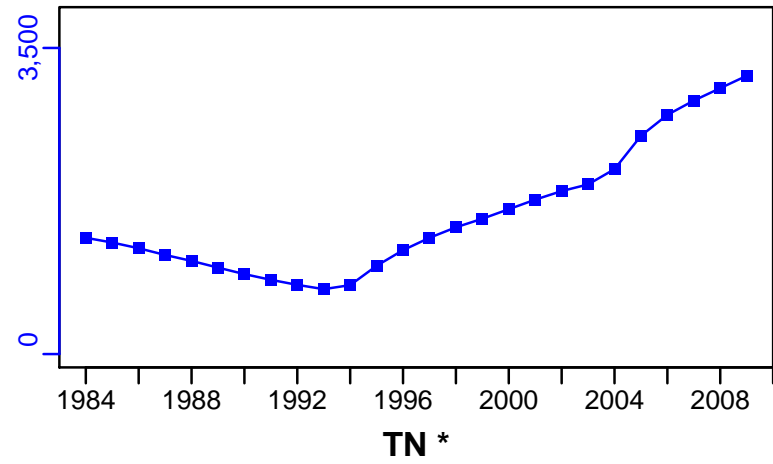
Production (1983–2010–BANOB)



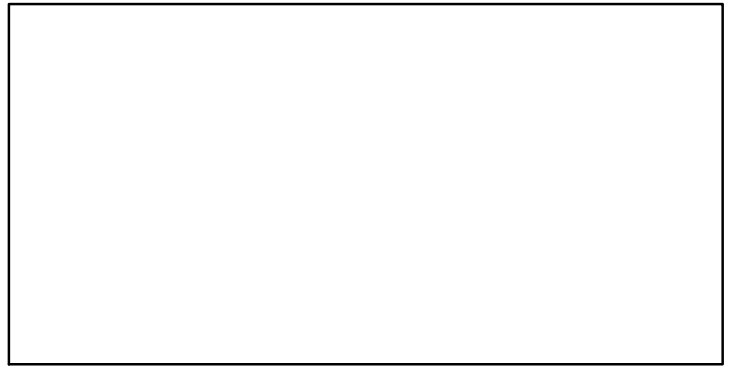
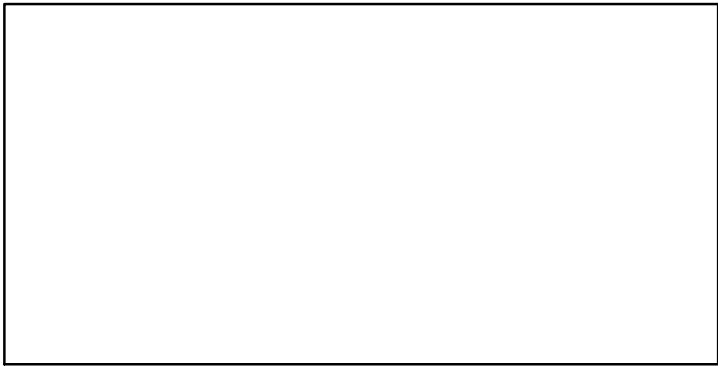
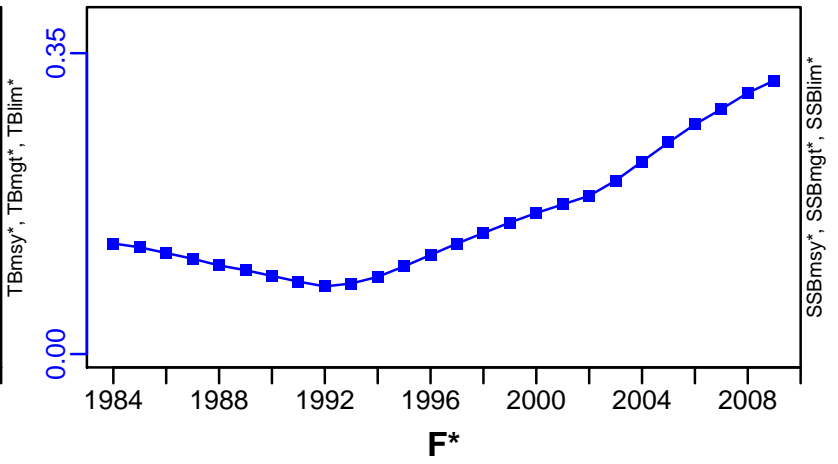
◆ Start Year ◆ End Year \* No Data

# Snapper Southern Gulf St. Vincent [SNAPSAUSSGSV]

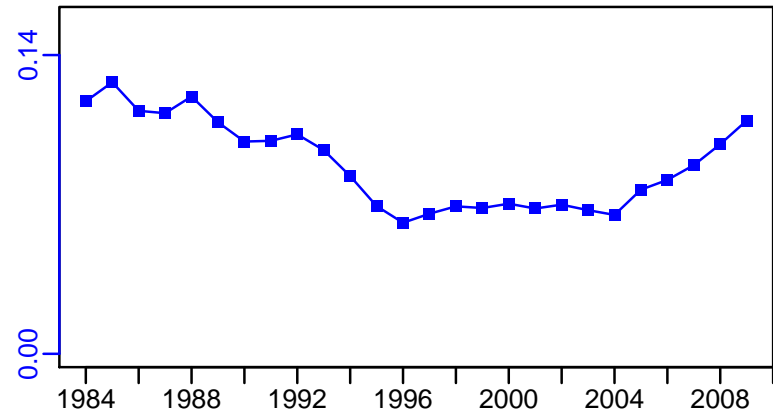
TB-MT (1983-2010-BANOBI)



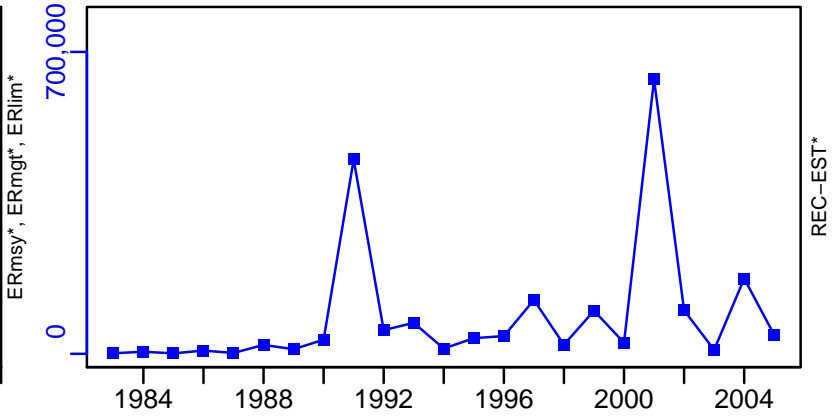
SSB-relative (1983-2010-BANOBI)



ER-ratio (1983-2010-BANOBI)



R-E00 (1983-2010-BANOBI)

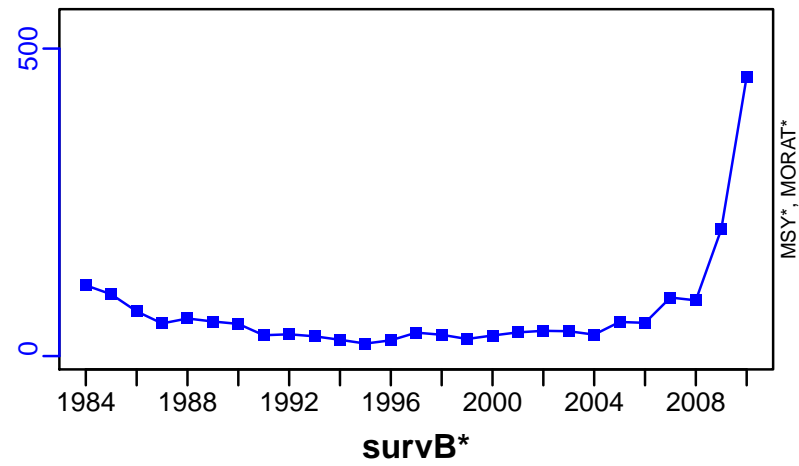




# Snapper Southern Gulf St. Vincent [SNAPSAUSSGSV]

TL-MT, TC\*, RecC\* (1983-2010-BANOBI)

TAC\*, Cpair\*, Cadv\*



EFFORT\*

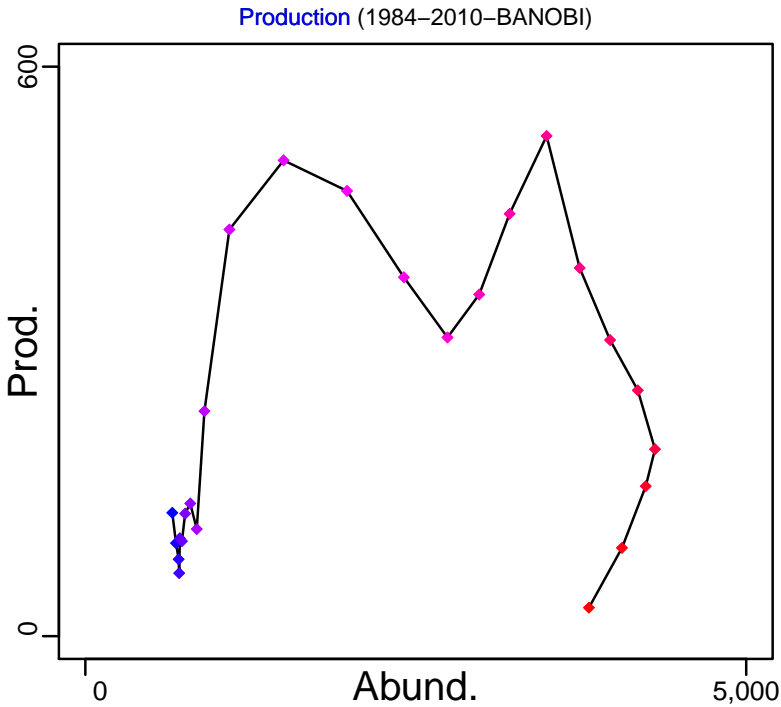
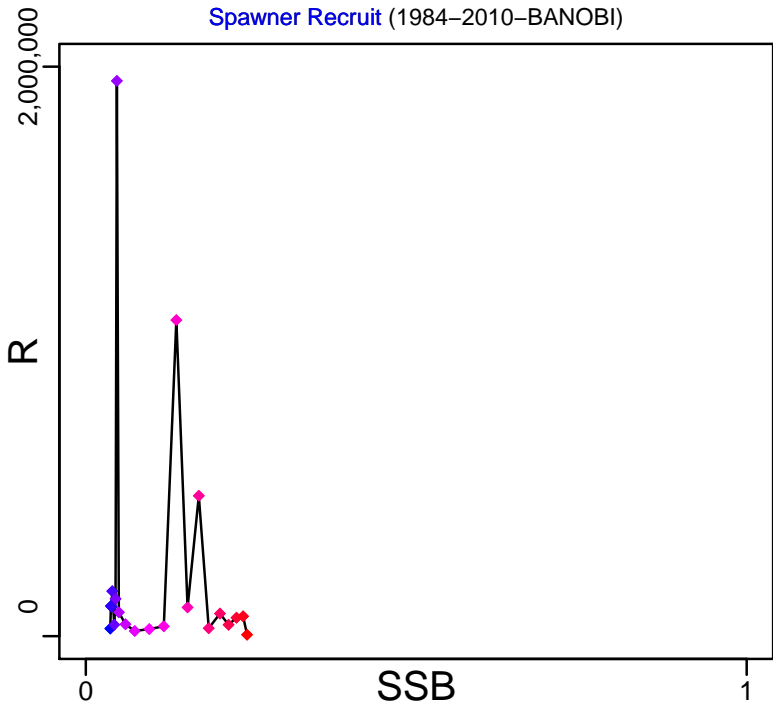


## Snapper Southern Spencer Gulf [SNAPSAUSSSG]

Metadata	
<b>Scientific Name</b>	Chrysophrys auratus
<b>Current Assess ID</b>	SARDI-SNAPSAUSSSG-1984-2010-BANOBI
<b>Area</b>	Southern Spencer Gulf
<b>Management Authority</b>	South Australian Research and Development Institute
<b>Assessor</b>	South Australian Research and Development Institute
<b>Asmts in RAM</b>	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.05
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

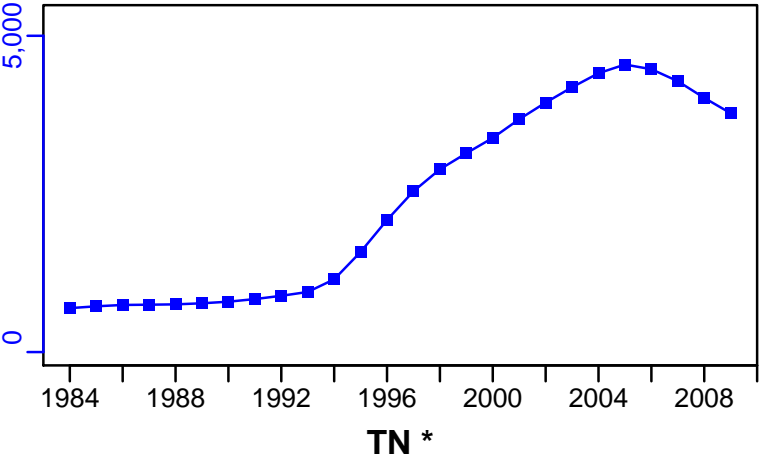
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	3580	-	-
SSB	SSB-relative	2010	0	-	-
TN	-	-	-	-	-
R	R-E00	2010	5070	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0	-	-
TC	-	-	-		
TL	TL-MT	2010	60.8		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



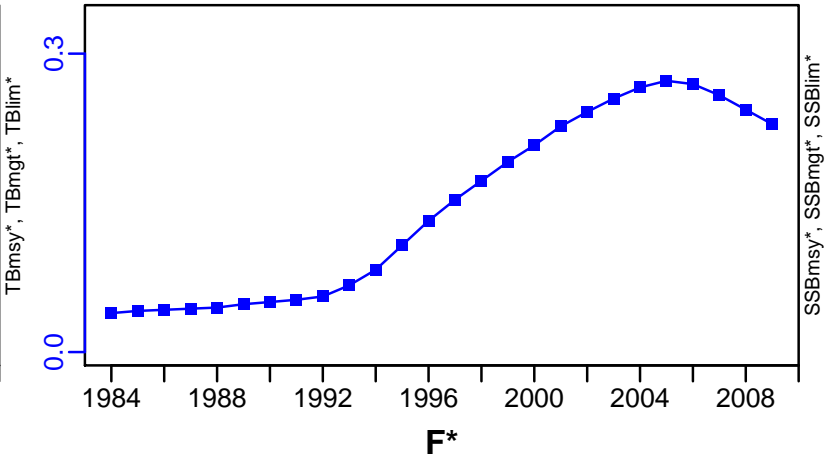
◆ Start Year ◆ End Year \* No Data

Snapper Southern Spencer Gulf [SNAPSAUSSSG]

TB-MT (1984–2010–BANOB1)

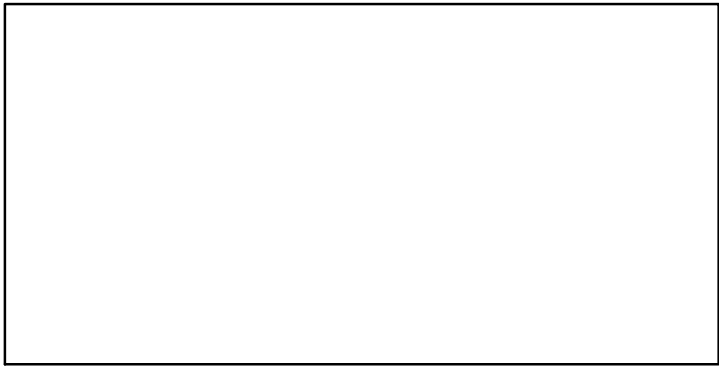
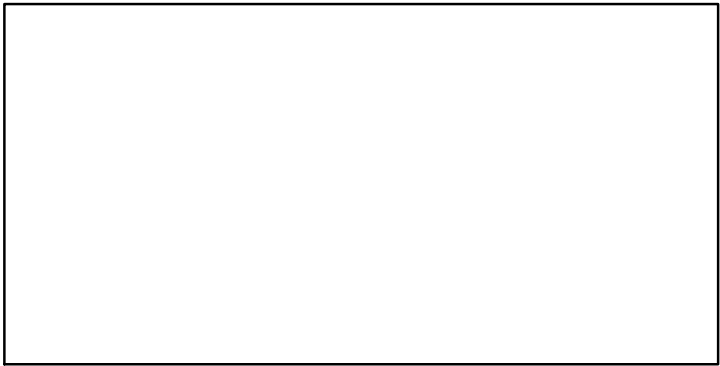


SSB-relative (1984–2010–BANOB1)

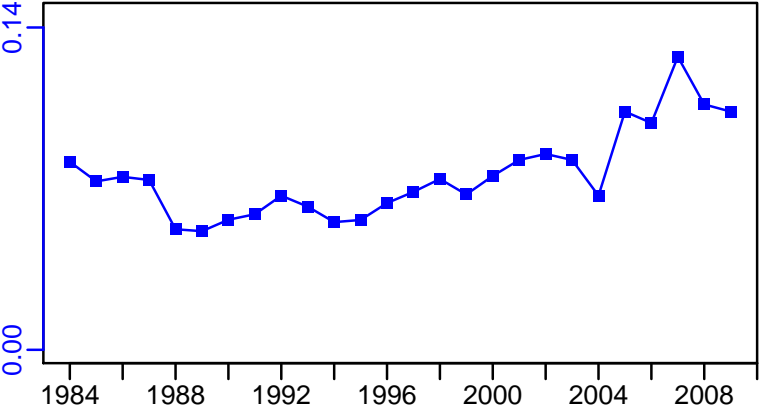


TN \*

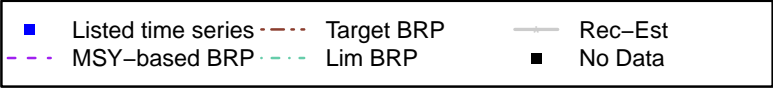
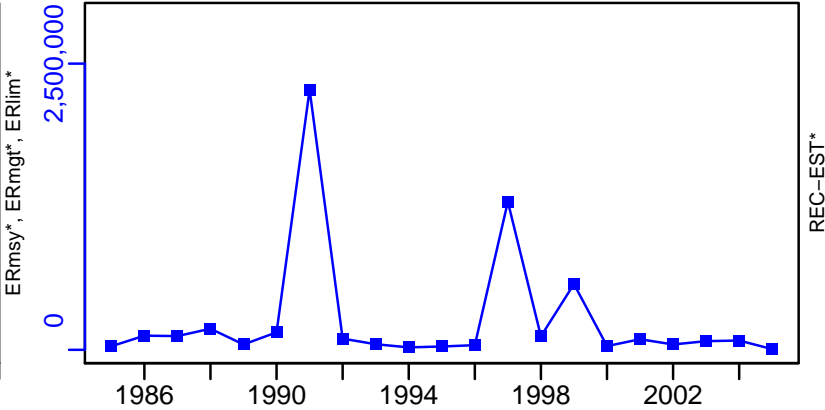
F\*



ER-ratio (1984–2010–BANOB1)

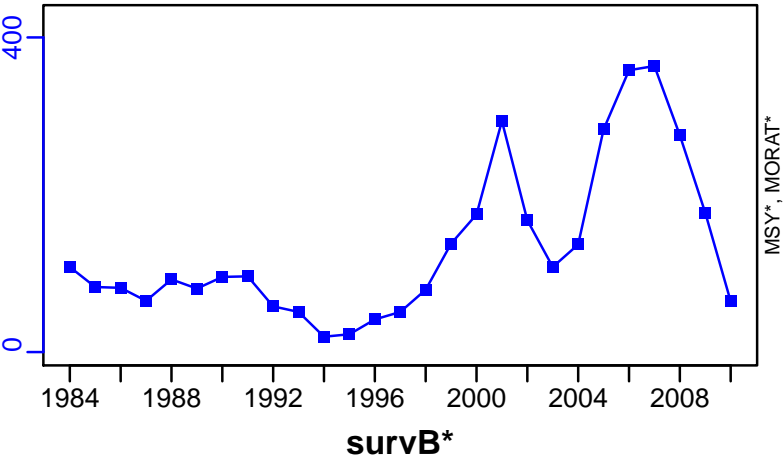


R-E00 (1984–2010–BANOB1)



Snapper Southern Spencer Gulf [SNAPSAUSSSG]

TL-MT, TC\*, RecC\* (1984-2010-BANOBI)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## School whiting Southeast Australia [SWHITSE]

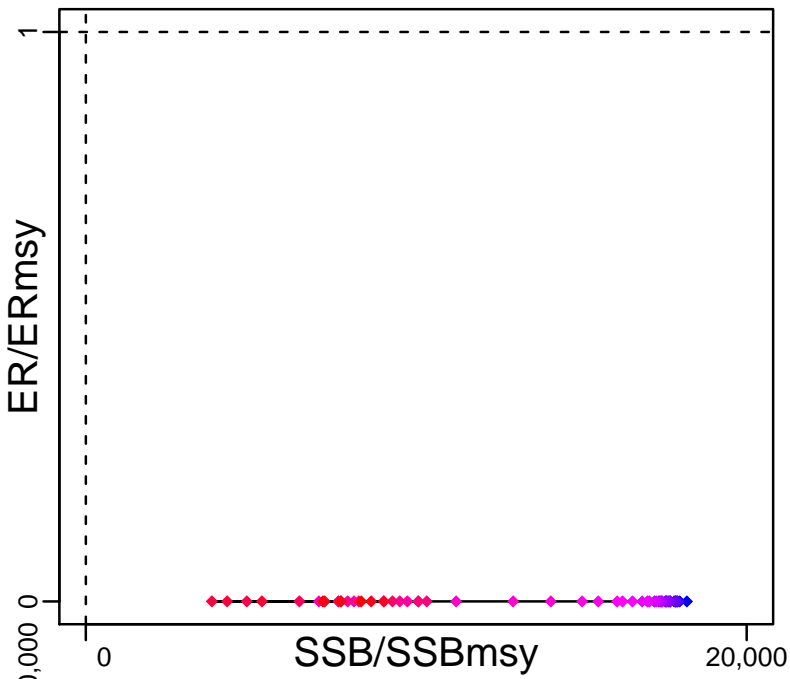
Metadata	
<b>Scientific Name</b>	Sillago flindersi
<b>Current Assess ID</b>	CSIRO-SWHITSE-1947-2008-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2007, 2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2008	0
<b>Fmsy</b>	Fmsy-1/yr	2008	0.91
<b>ERmsy</b>	ERmsy-conv-ratio	2008	2170
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2008	4001
<b>Fmgt</b>	Fmgt-1/yr	2008	0.19
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2008	14,201
<b>SSB0</b>	SSB0-MT	2008	8335
<b>MSY</b>	MSY-MT	2008	2046
<b>M</b>	M-1/yr	2008	0.53
<b>TBlim</b>	TBlim-MT	2007	1556
<b>SSBlim</b>	SSBlim-MT	2008	1667
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

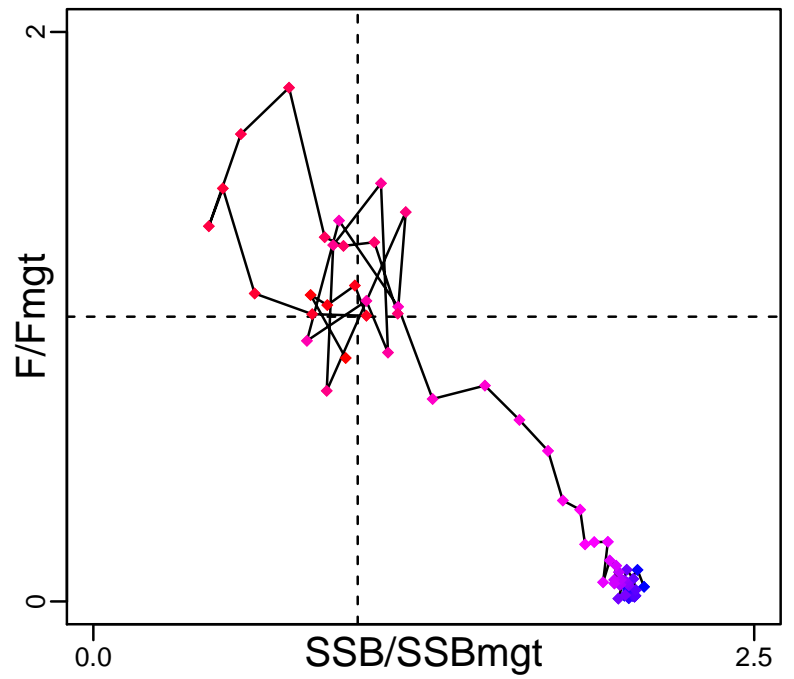
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2008	9160	-	-
<b>SSB</b>	SSB-MT	2008	3820	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$2.18 \times 10^{14}$	-	-
<b>F</b>	F-1/yr	2008	0	-	-
<b>ER</b>	ER-ratio	2008	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2008	1300		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2008	8335		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2008	0.18		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2008	0		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2008	0.95		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2008	0.85		
<b>ER/ERmgt</b>	-	-	-		

# School whiting Southeast Australia [SWHITSE]

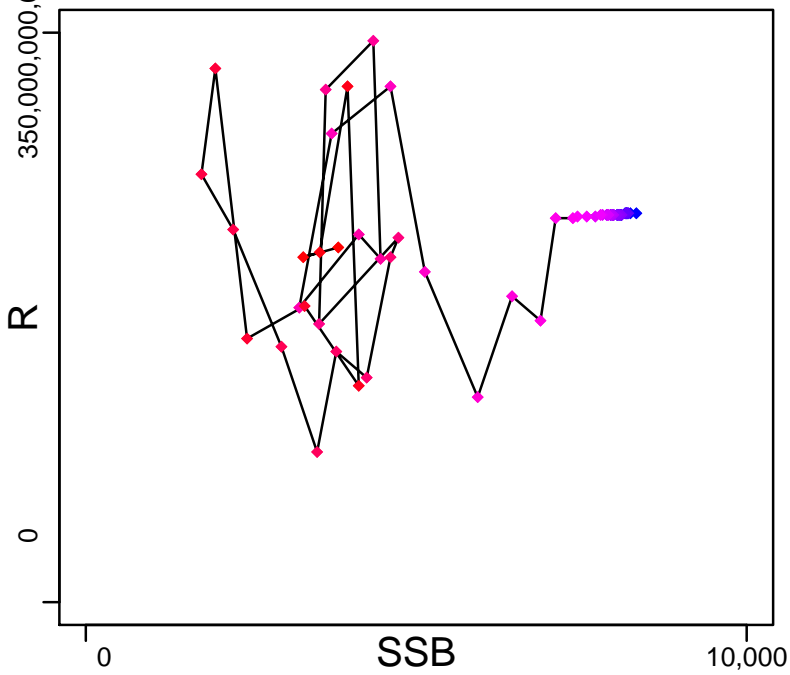
Kobe MSYpref (1947–2008–MOESENEDER)



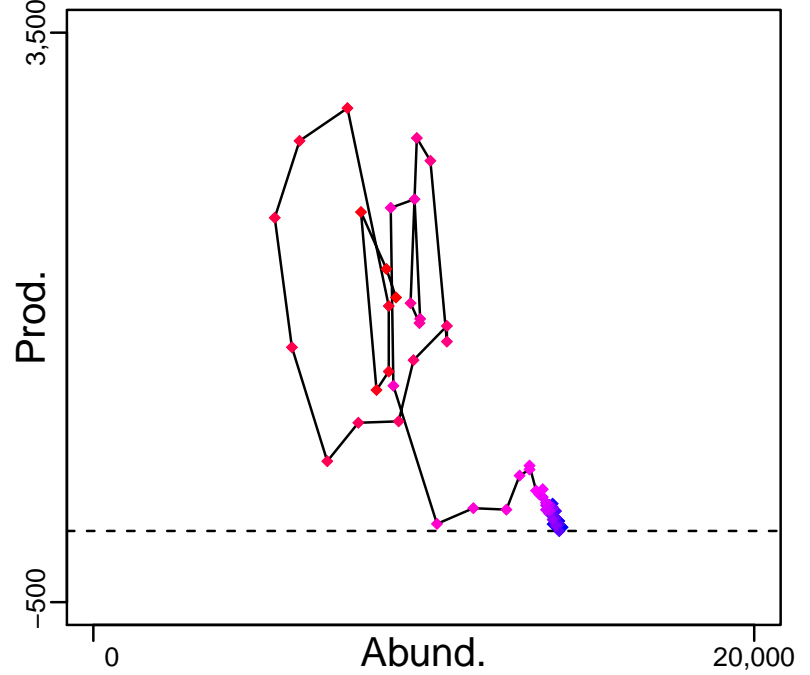
Kobe MGTpref (1947–2008–MOESENEDER)



Spawner Recruit (1947–2008–MOESENEDER)



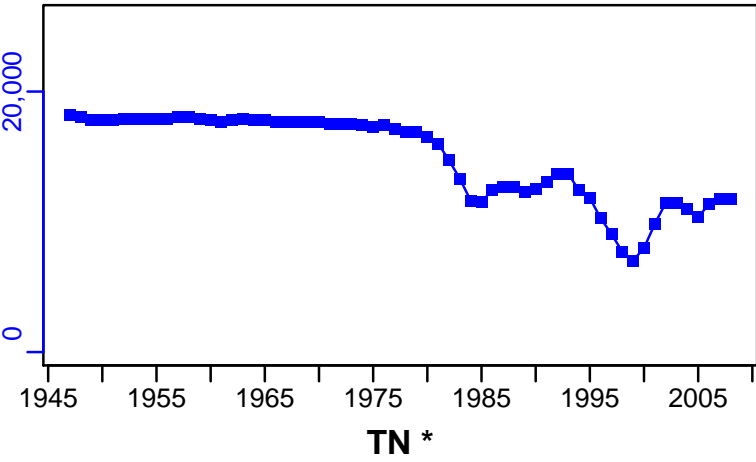
Production (1947–2008–MOESENEDER)



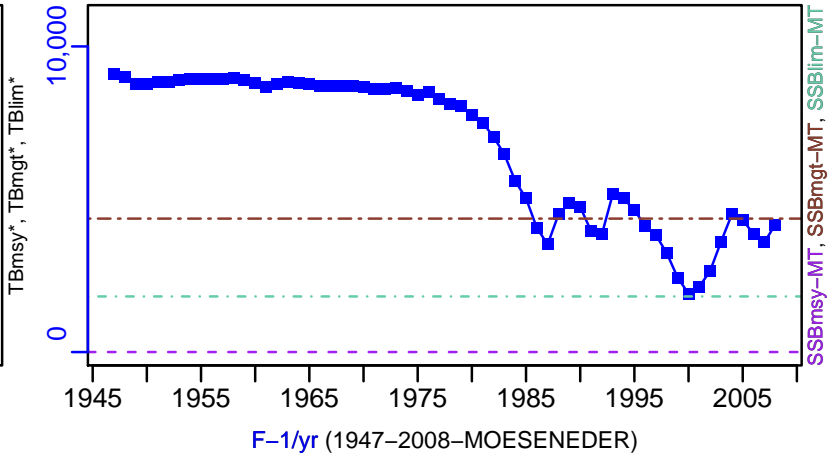
◆ Start Year ◆ End Year \* No Data

# School whiting Southeast Australia [SWHITSE]

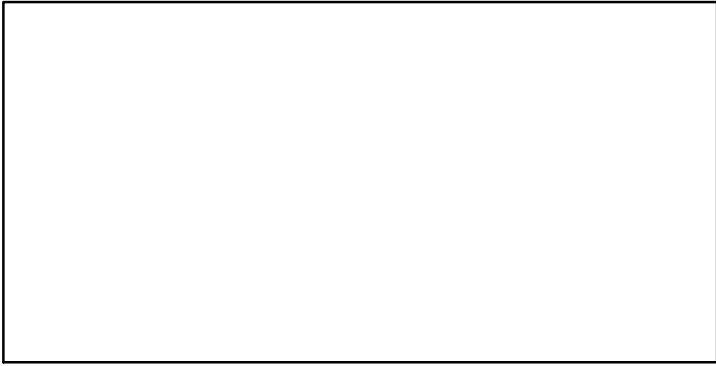
TB-MT (1947-2008-MOESENER)



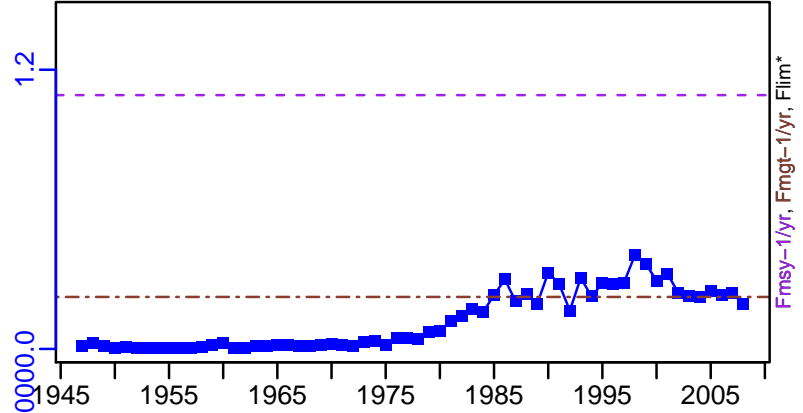
SSB-MT (1947-2008-MOESENER)



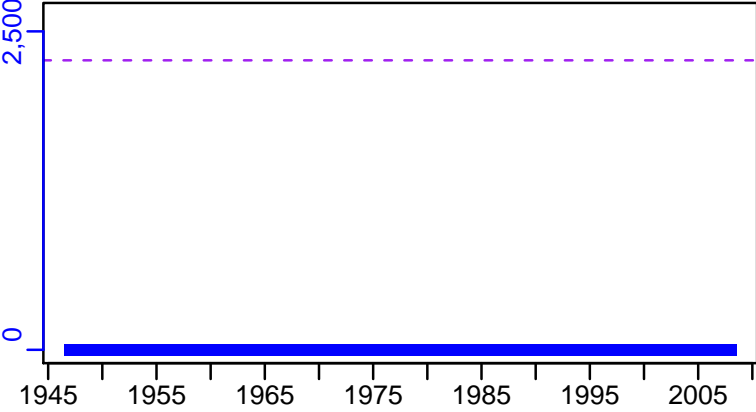
TN \*



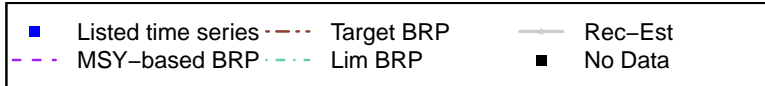
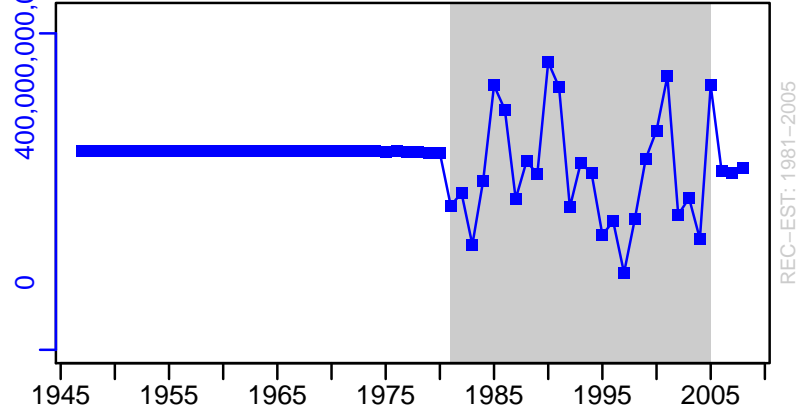
F-1/yr (1947-2008-MOESENER)



ER-ratio (1947-2008-MOESENER)



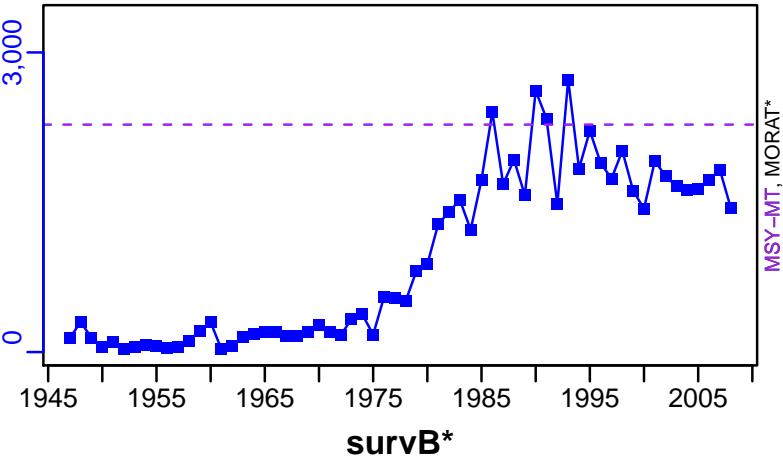
R-E00 (1947-2008-MOESENER)





School whiting Southeast Australia [SWHITSE]

TL-MT, TC\*, RecC\* (1947-2008-MOESENER)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



## Tasmanian giant crab Tasmania [TASGIANTCRABTAS]

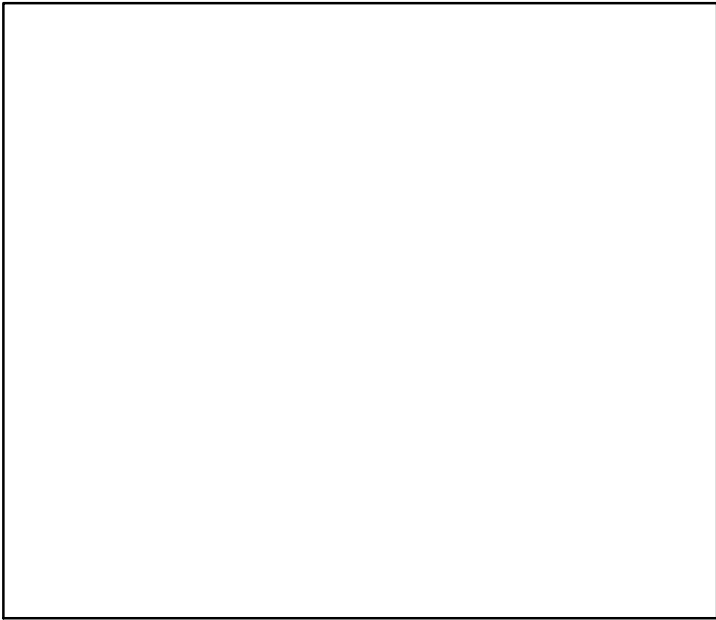
Metadata	
<b>Scientific Name</b>	Pseudocarcinus gigas
<b>Current Assess ID</b>	TAFI-TASGIANTCRABTAS-1990-2007-JENSEN
<b>Area</b>	Tasmania
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Tasmanian Aquaculture and Fisheries Institute
<b>Asmts in RAM</b>	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	TB-MT	2007	762	-	-
SSB	SSB-E00eggs	2007	143,000	-	-
TN	-	-	-	-	-
R	R-E00	2007	180,000	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	57.1		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Tasmanian giant crab Tasmania [TASGIANTCRABTAS]

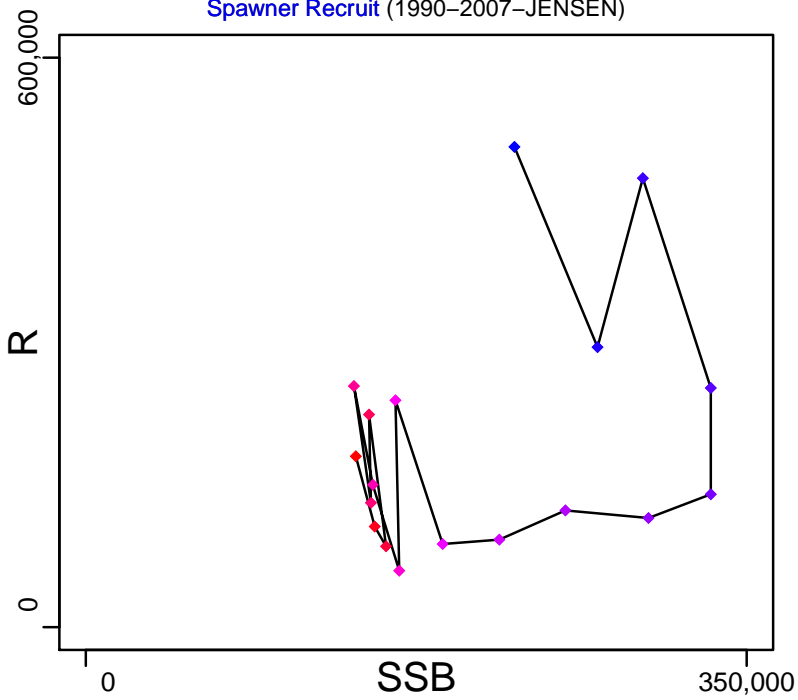
Kobe MSY\*



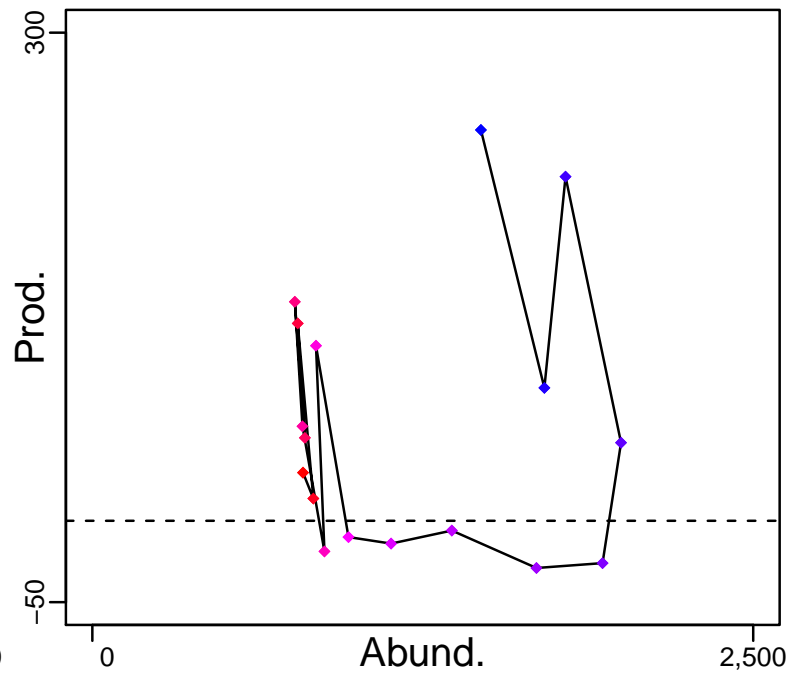
Kobe MGT\*



Spawner Recruit (1990–2007–JENSEN)



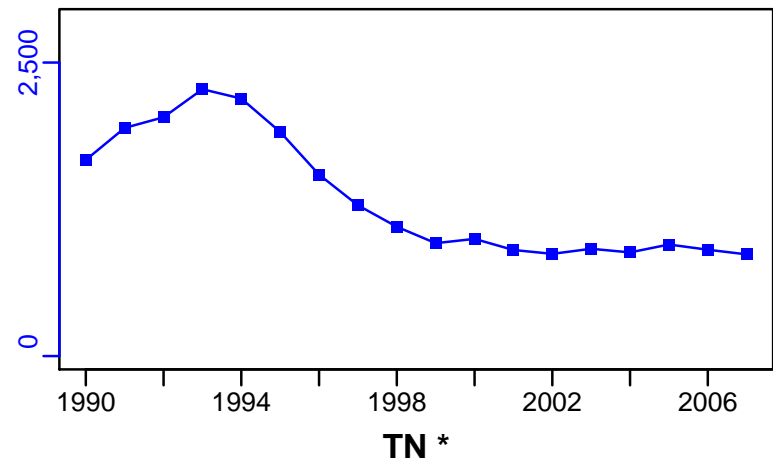
Production (1990–2007–JENSEN)



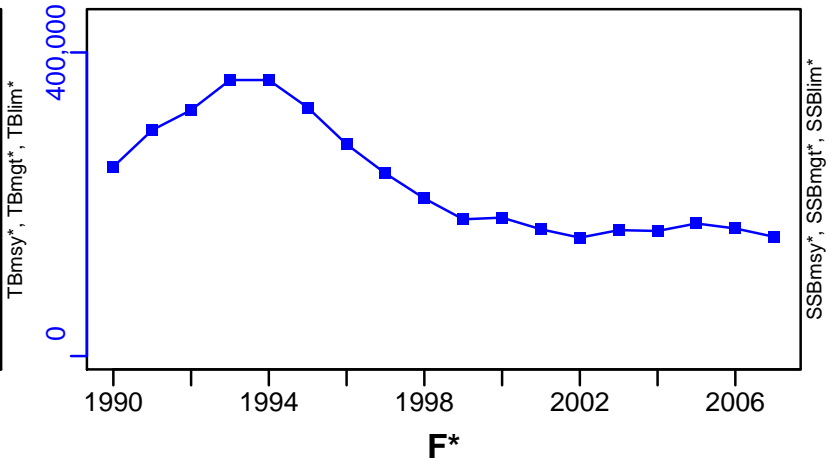
◆ Start Year ◆ End Year \* No Data

# Tasmanian giant crab Tasmania [TASGIANTCRABTAS]

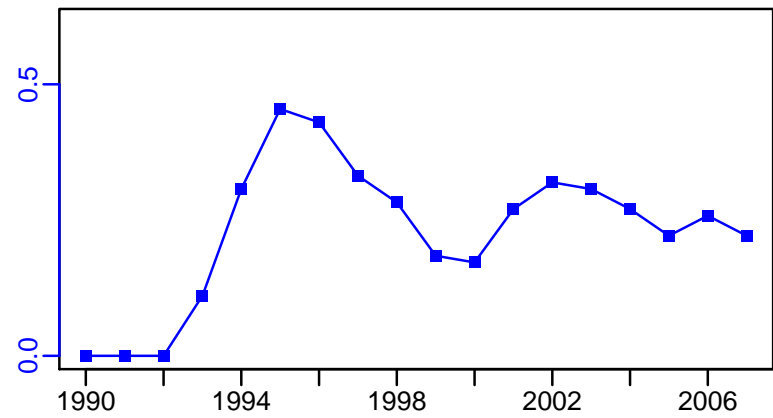
TB-MT (1990-2007-JENSEN)



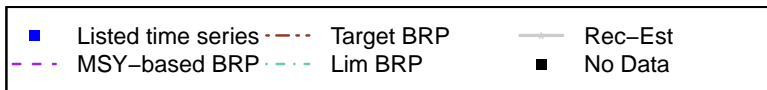
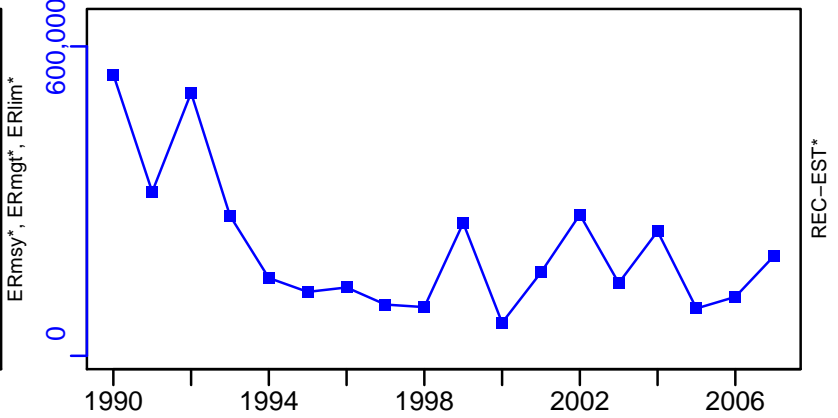
SSB-E00eggs (1990-2007-JENSEN)



ER-ratio (1990-2007-JENSEN)



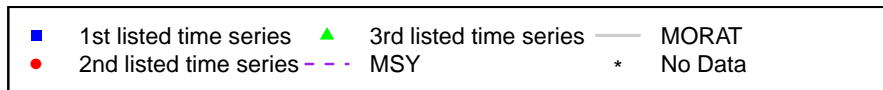
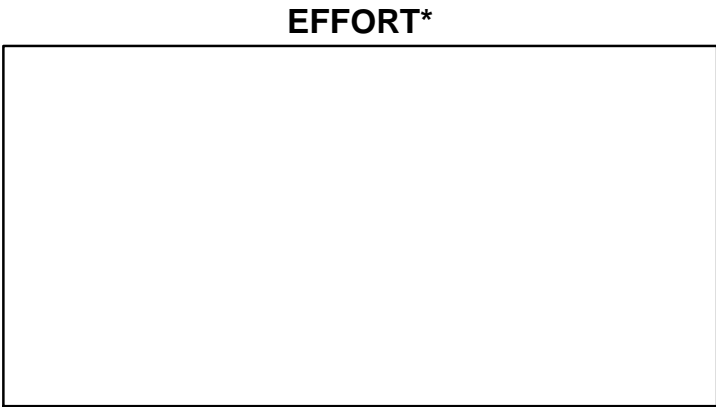
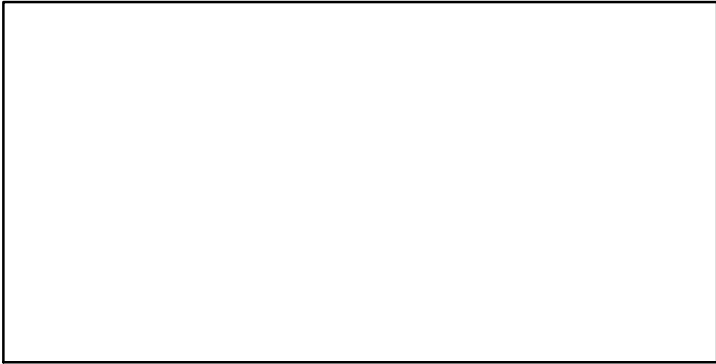
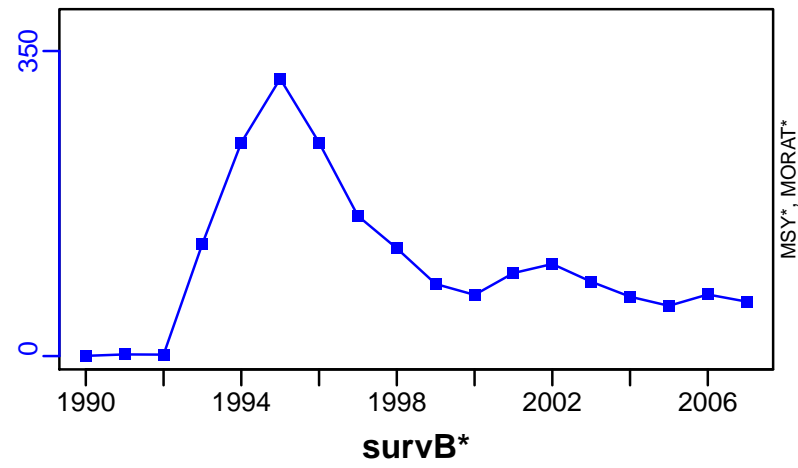
R-E00 (1990-2007-JENSEN)



# Tasmanian giant crab Tasmania [TASGIANTCRABTAS]

TC-MT, TL\*, RecC\* (1990-2007-JENSEN)

TAC\*, Cpair\*, Cadv\*



## Tiger flathead Southeast Australia [TIGERFLATSE]

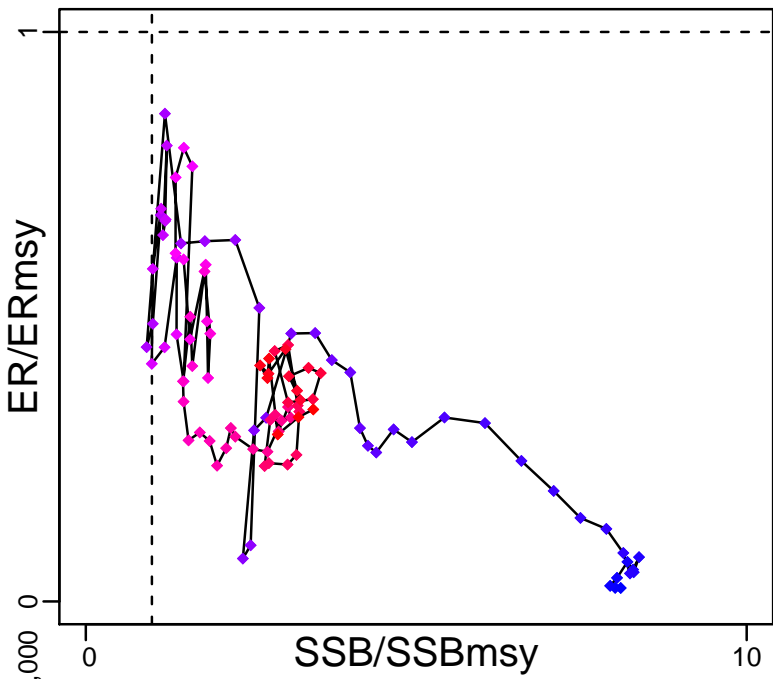
Metadata	
<b>Scientific Name</b>	Neoplatycephalus richardsoni
<b>Current Assess ID</b>	CSIRO-TIGERFLATSE-1915-2015-MOESENER
<b>Area</b>	Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2006, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2015	2854
<b>Fmsy</b>	Fmsy-1/yr	2015	0.37
<b>ERmsy</b>	ERmsy-conv-ratio	2015	0.42
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2015	9240
<b>Fmgt</b>	Fmgt-1/yr	2015	0.75
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2015	45,431
<b>SSB0</b>	SSB0-MT	2015	23,100
<b>MSY</b>	MSY-MT	2015	2854
<b>M</b>	M-1/yr	2015	0.27
<b>TBlim</b>	TBlim-MT	2006	2546
<b>SSBlim</b>	SSBlim-MT	2015	4620
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

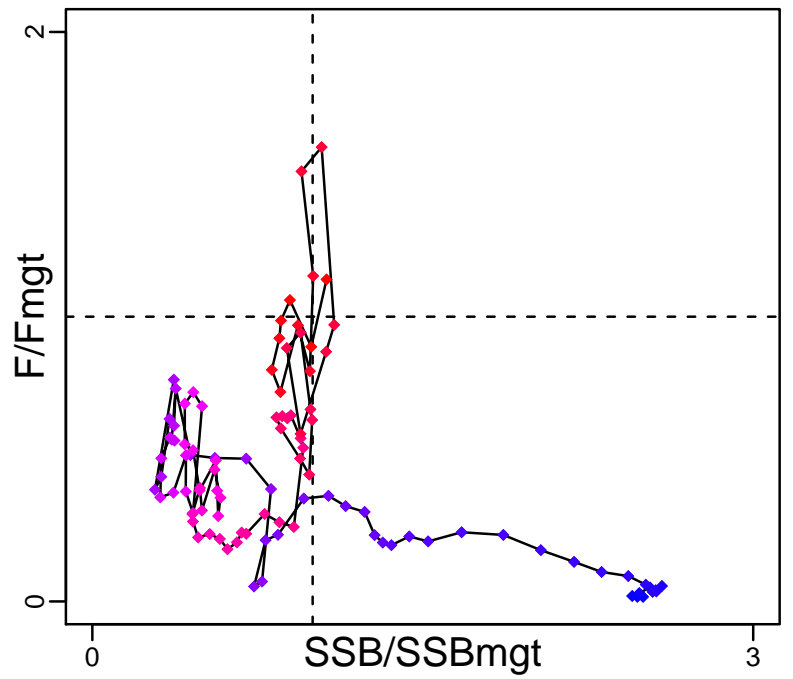
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	23,400	-	-
<b>SSB</b>	SSB-MT	2015	9820	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2015	$1.72 \times 10^{13}$	-	-
<b>F</b>	F-1/yr	2015	1	-	-
<b>ER</b>	ER-ratio	2015	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2015	3070		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2015	3.44		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2015	2.29		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2015	0.34		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2015	1.06		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2015	1.13		
<b>ER/ERmgt</b>	-	-	-		

# Tiger flathead Southeast Australia [TIGERFLATSE]

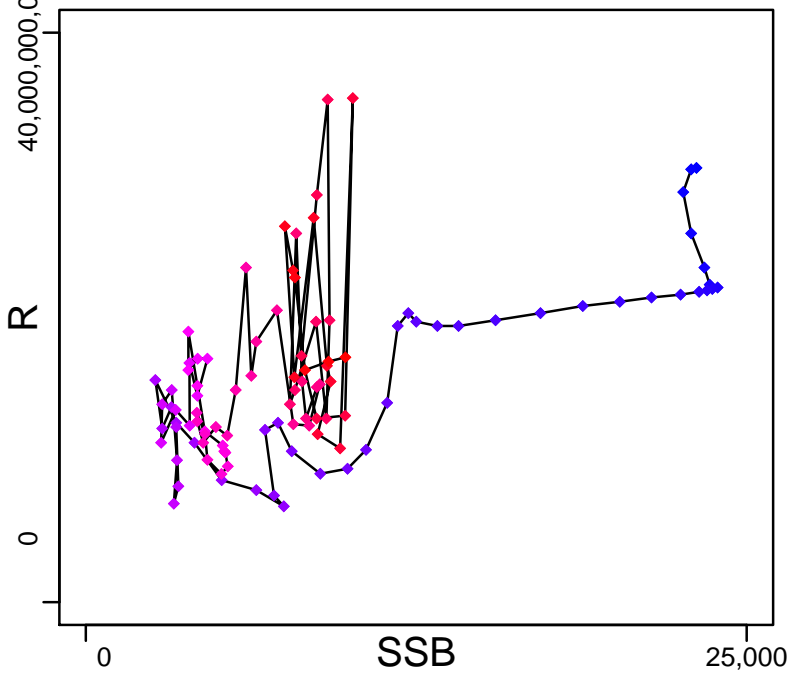
Kobe MSYpref (1915–2015–MOESENEDER)



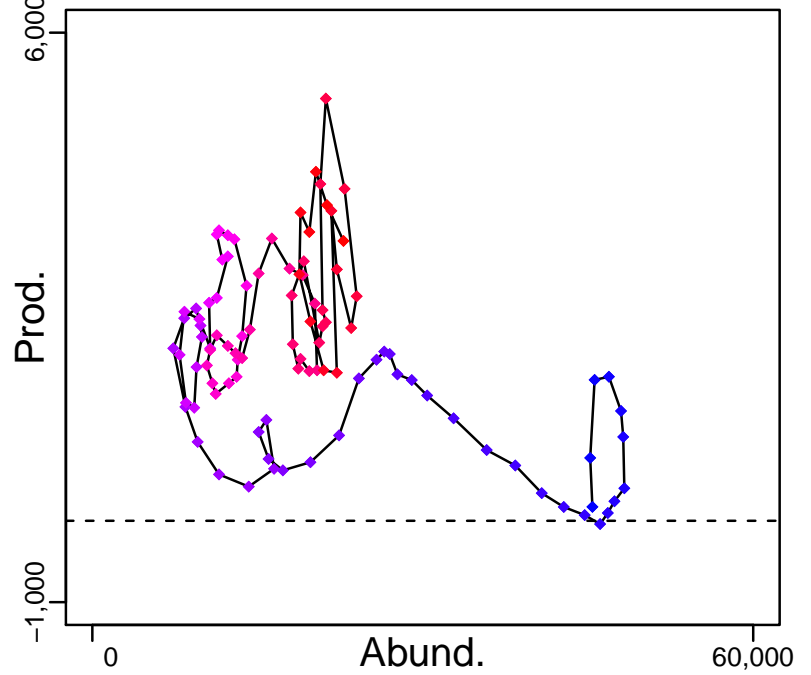
Kobe MGTpref (1915–2015–MOESENEDER)



Spawner Recruit (1915–2015–MOESENEDER)



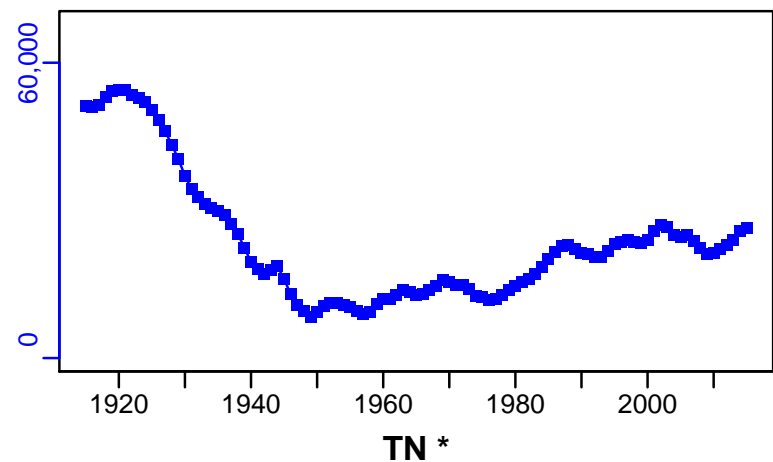
Production (1915–2015–MOESENEDER)



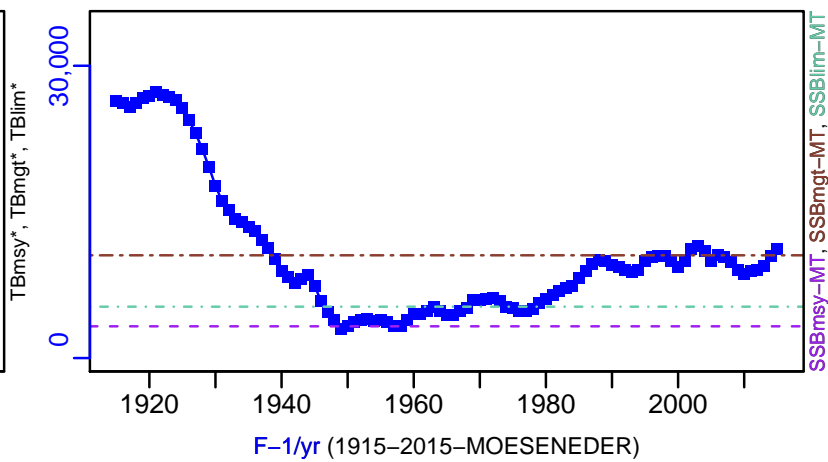
◆ Start Year ◆ End Year \* No Data

# Tiger flathead Southeast Australia [TIGERFLATSE]

TB-MT (1915-2015-MOESENER)



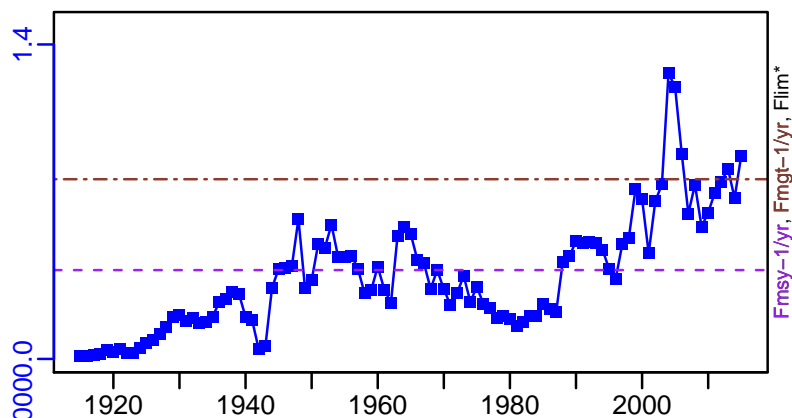
SSB-MT (1915-2015-MOESENER)



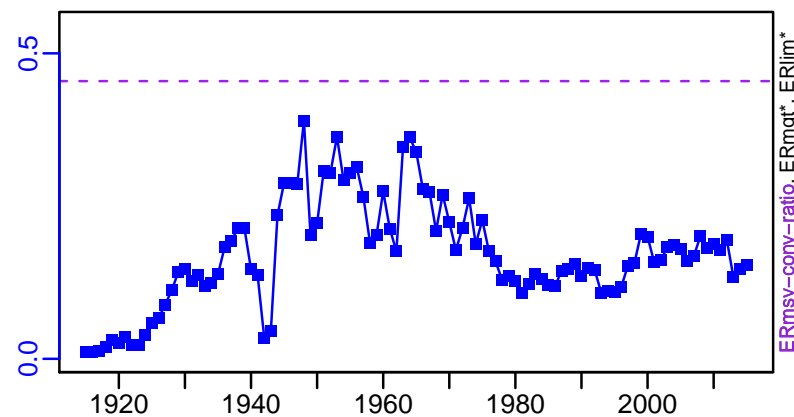
TN \*



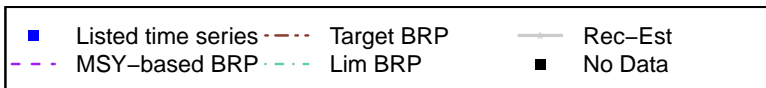
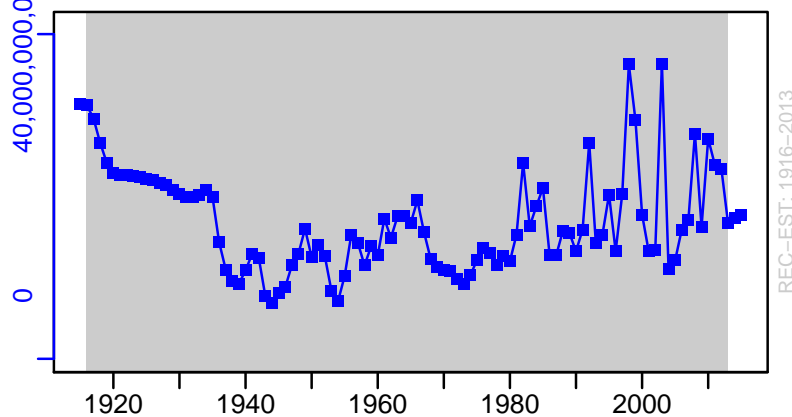
F-1/yr (1915-2015-MOESENER)



ER-ratio (1915-2015-MOESENER)



R-E00 (1915-2015-MOESENER)

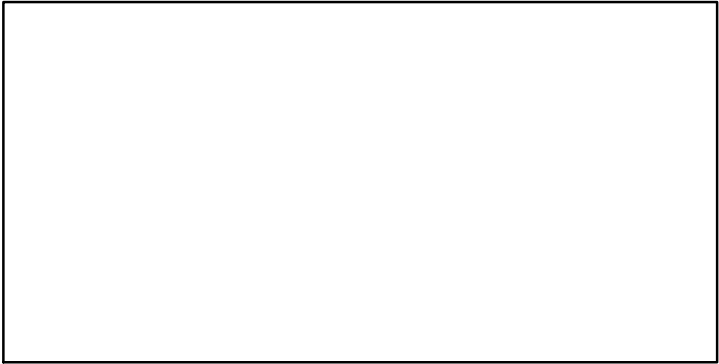
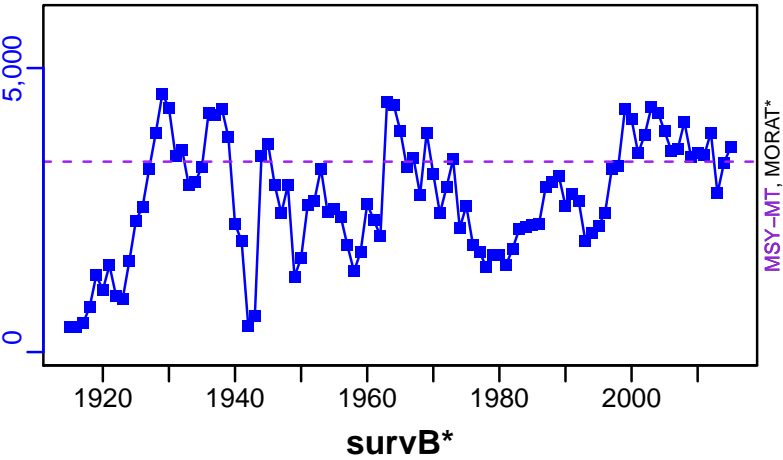




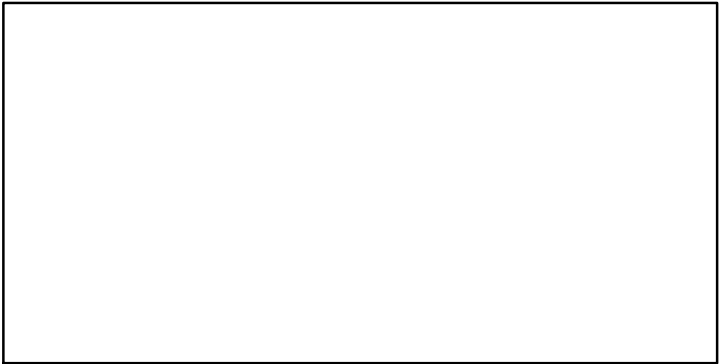
Tiger flathead Southeast Australia [TIGERFLATSE]

TL-MT, TC\*, RecC\* (1915-2015-MOESENER)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Blue Warehou Eastern half of Southeast Australia [WAREHOUSE]

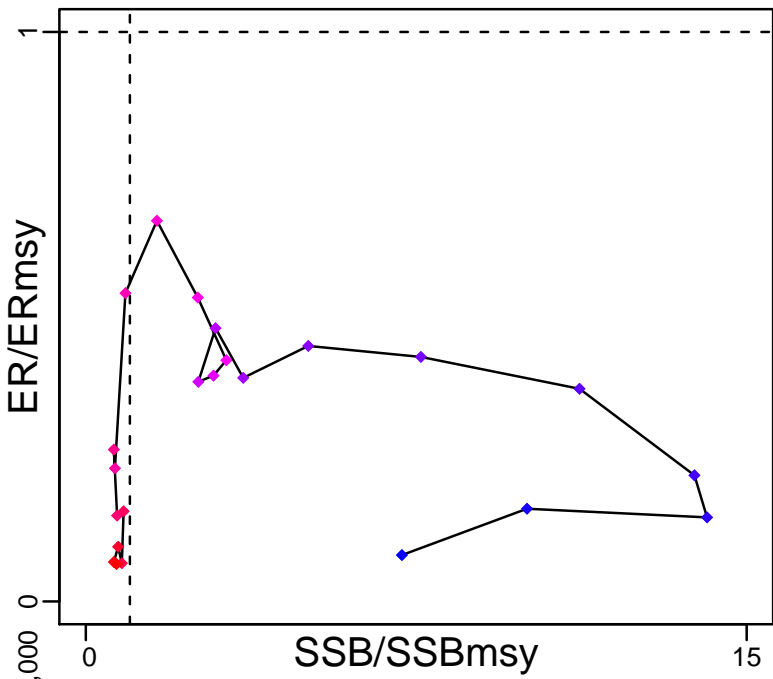
Metadata	
<b>Scientific Name</b>	Seriolella brama
<b>Current Assess ID</b>	CSIRO-WAREHOUSE-1986-2008-MOESENER
<b>Area</b>	Eastern half of Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2006, 2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2008	967
<b>Fmsy</b>	Fmsy-1/yr	2008	1.9
<b>ERmsy</b>	ERmsy-ratio	2006	0.17
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2008	2135
<b>Fmgt</b>	Fmgt-1/yr	2008	0.21
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2008	6058
<b>SSB0</b>	SSB0-MT	2008	4447
<b>MSY</b>	MSY-MT	2008	967
<b>M</b>	M-1/yr	2008	0.45
<b>TBlim</b>	TBlim-MT	2006	653
<b>SSBlim</b>	SSBlim-MT	2008	889
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

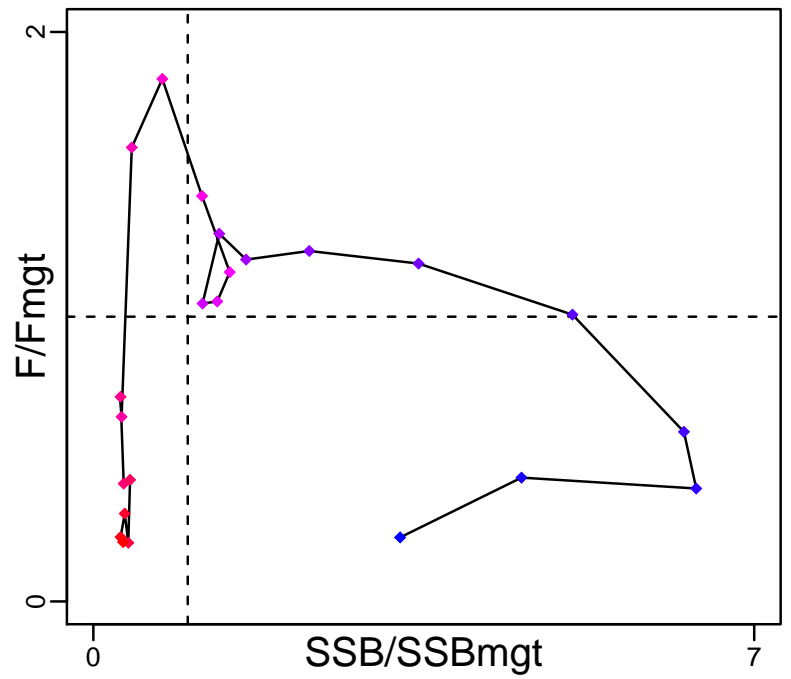
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2008	1680	-	-
<b>SSB</b>	SSB-MT	2008	673	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$5.11 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2008	0	-	-
<b>ER</b>	ER-ratio	2008	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2008	59		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2008	0.7		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2008	0.02		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-ratio	2006	0.65		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2008	0.32		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2008	0.21		
<b>ER/ERmgt</b>	-	-	-		

# Blue Warehou Eastern half of Southeast Australia [WAREHOUSE]

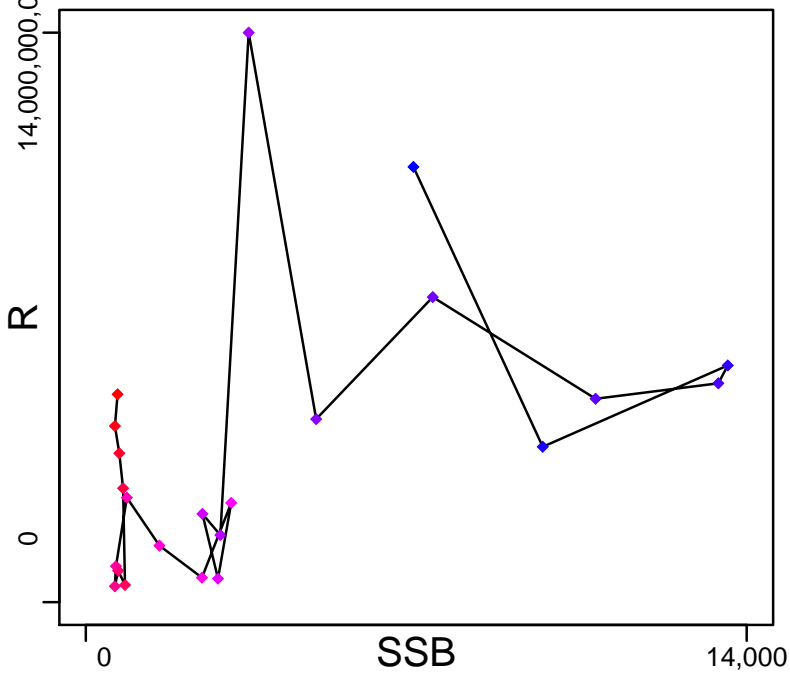
Kobe MSYpref (1986–2008–MOESENEDER)



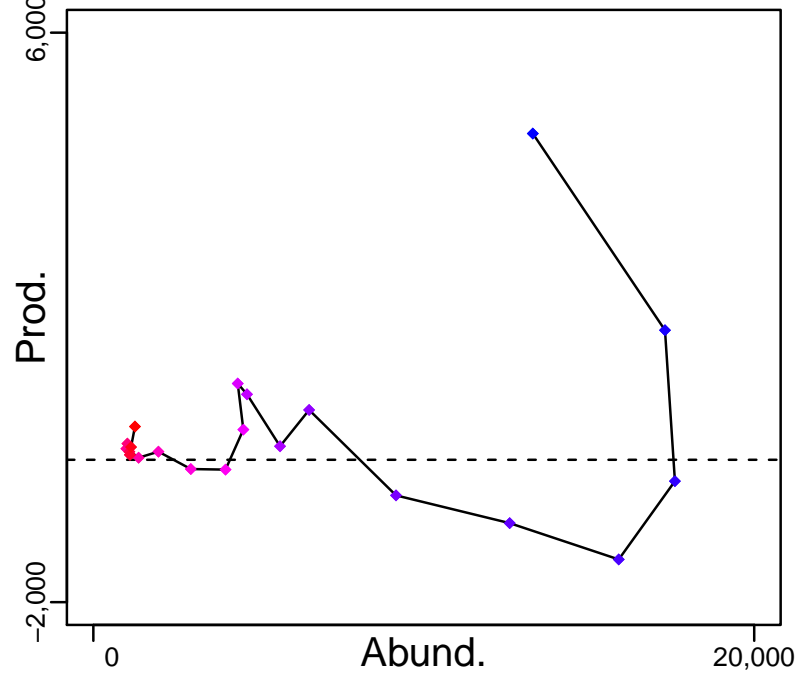
Kobe MGTpref (1986–2008–MOESENEDER)



Spawner Recruit (1986–2008–MOESENEDER)



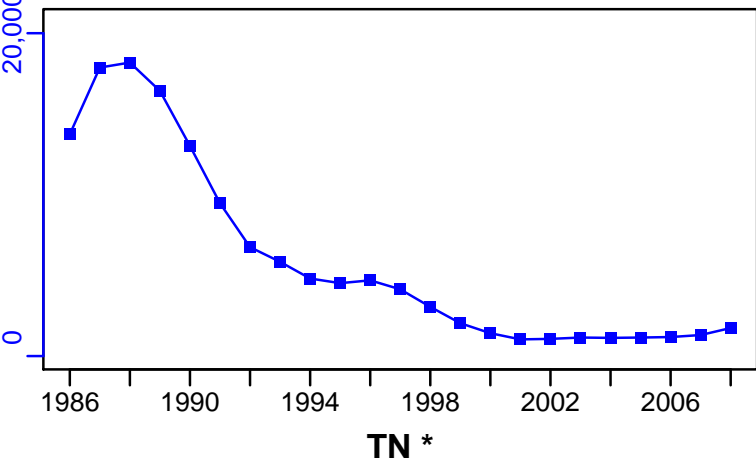
Production (1986–2008–MOESENEDER)



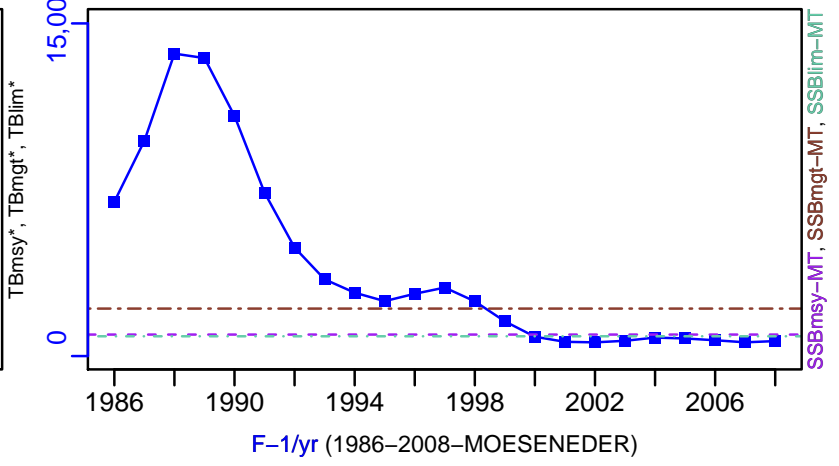
◆ Start Year ◆ End Year \* No Data

# Blue Warehou Eastern half of Southeast Australia [WAREHOUSEE]

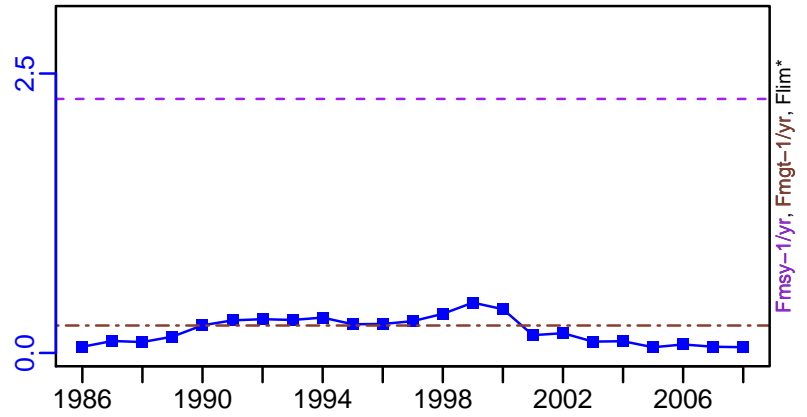
TB-MT (1986-2008-MOESENER)



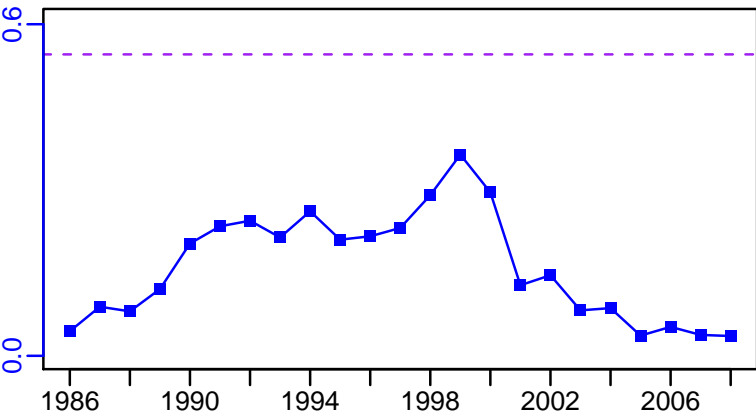
SSB-MT (1986-2008-MOESENER)



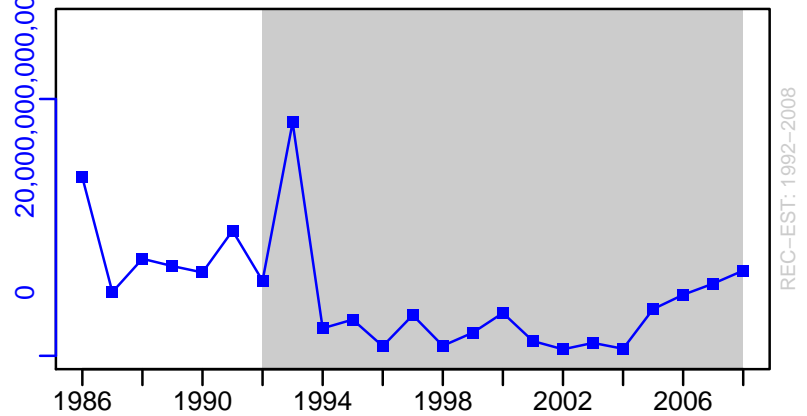
F-1/yr (1986-2008-MOESENER)



ER-ratio (1986-2008-MOESENER)



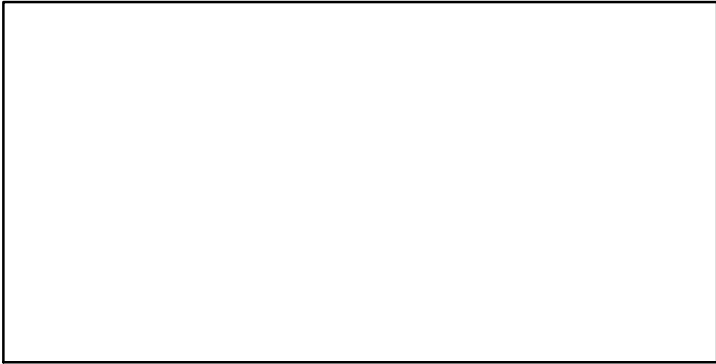
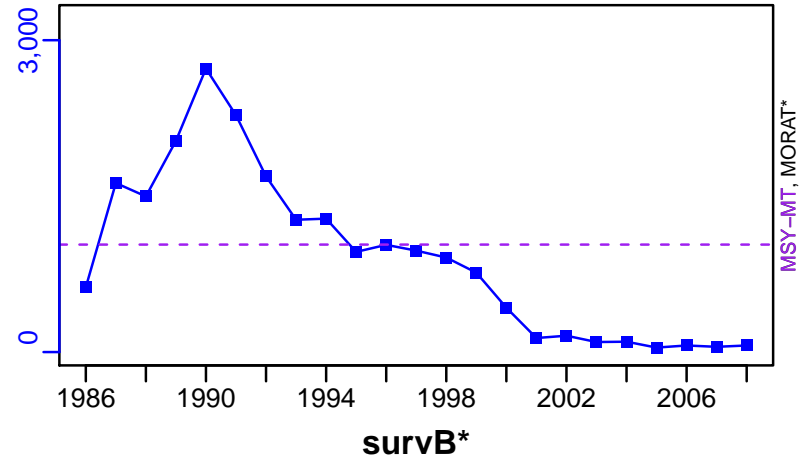
R-E00 (1986-2008-MOESENER)



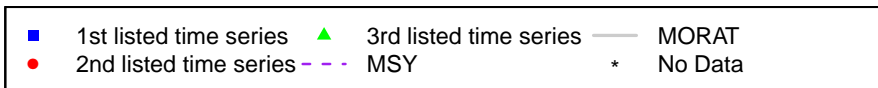
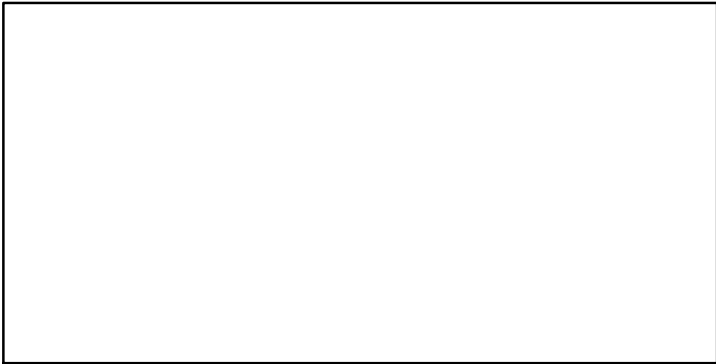
# Blue Warehou Eastern half of Southeast Australia [WAREHOUSE]

TL-MT, TC\*, RecC\* (1986-2008-MOESENER)

TAC\*, Cpair\*, Cadv\*



EFFORT\*



## Blue Warehou Western half of Southeast Australia [WAREHOUWSE]

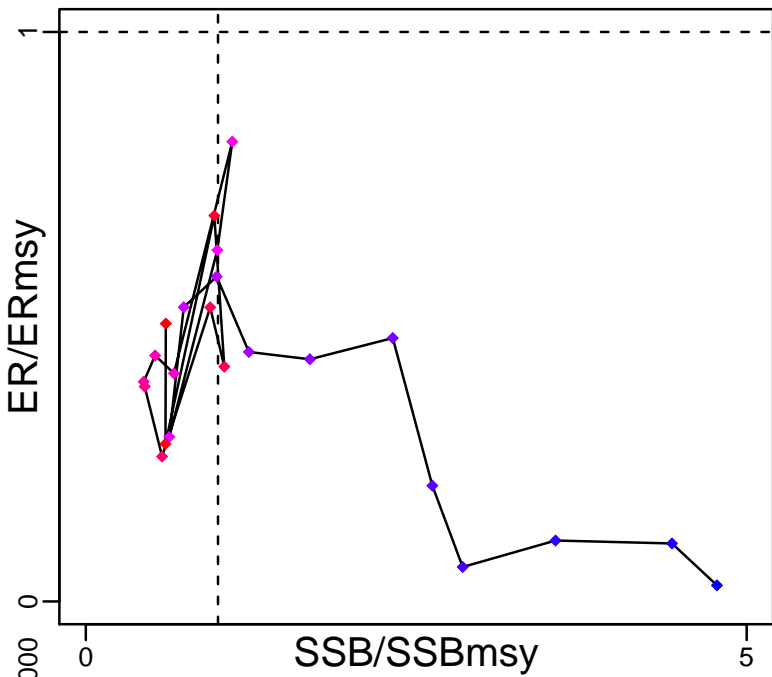
Metadata	
<b>Scientific Name</b>	Seriotelella brama
<b>Current Assess ID</b>	CSIRO-WAREHOUWSE-1986-2008-MOESENER
<b>Area</b>	Western half of Southeast Australia
<b>Management Authority</b>	Australian Fisheries Management Authority, Australia national management
<b>Assessor</b>	Commonwealth Scientific and Industrial Research Organization
<b>Asmts in RAM</b>	2006, 2008

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-MT	2008	867
<b>Fmsy</b>	Fmsy-1/yr	2008	5.01
<b>ERmsy</b>	ERmsy-conv-ratio	2008	0.54
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2008	1423
<b>Fmgt</b>	Fmgt-1/yr	2008	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	TB0-MT	2008	4423
<b>SSB0</b>	SSB0-MT	2008	2964
<b>MSY</b>	MSY-MT	2008	867
<b>M</b>	M-1/yr	2008	0.45
<b>TBlim</b>	TBlim-MT	2006	653
<b>SSBlim</b>	SSBlim-MT	2008	593
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

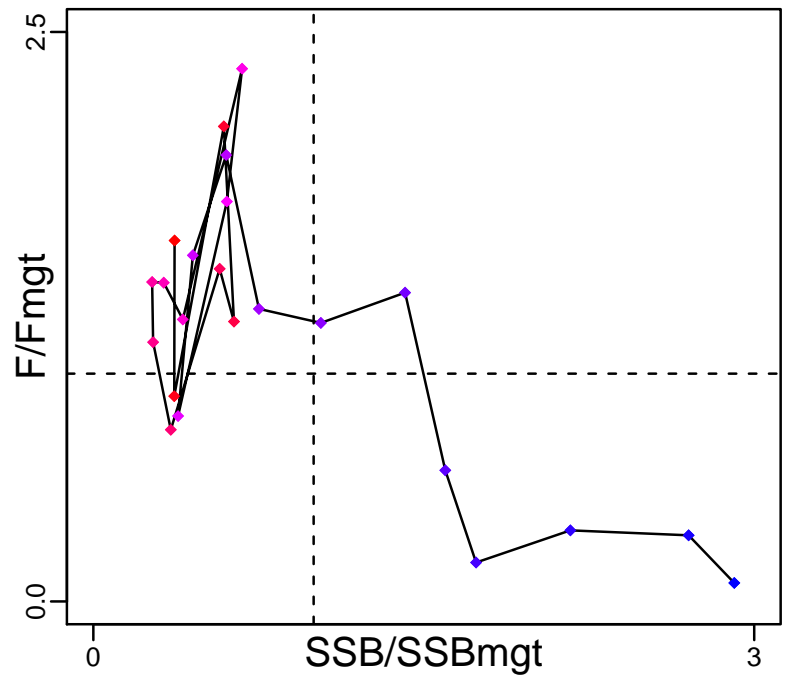
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2008	1430	-	-
<b>SSB</b>	SSB-MT	2008	525	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2008	$4.15 \times 10^{12}$	-	-
<b>F</b>	F-1/yr	2008	0	-	-
<b>ER</b>	ER-ratio	2008	0	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2008	379		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-MT	2008	0.61		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2008	0.06		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-conv-ratio	2008	0.49		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2008	0.37		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2008	1.58		
<b>ER/ERmgt</b>	-	-	-		

# Blue Warehou Western half of Southeast Australia [WAREHOUWSE]

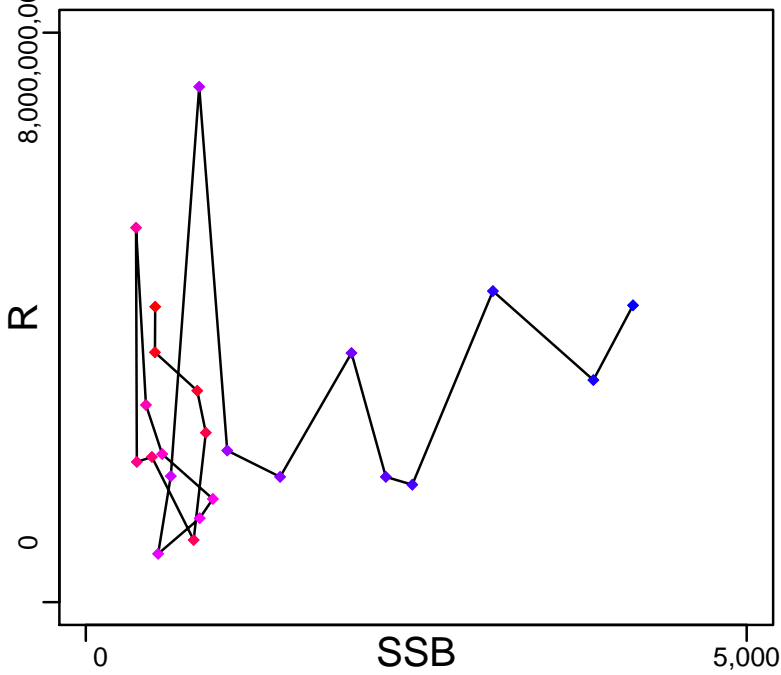
Kobe MSYpref (1986–2008–MOESENEDER)



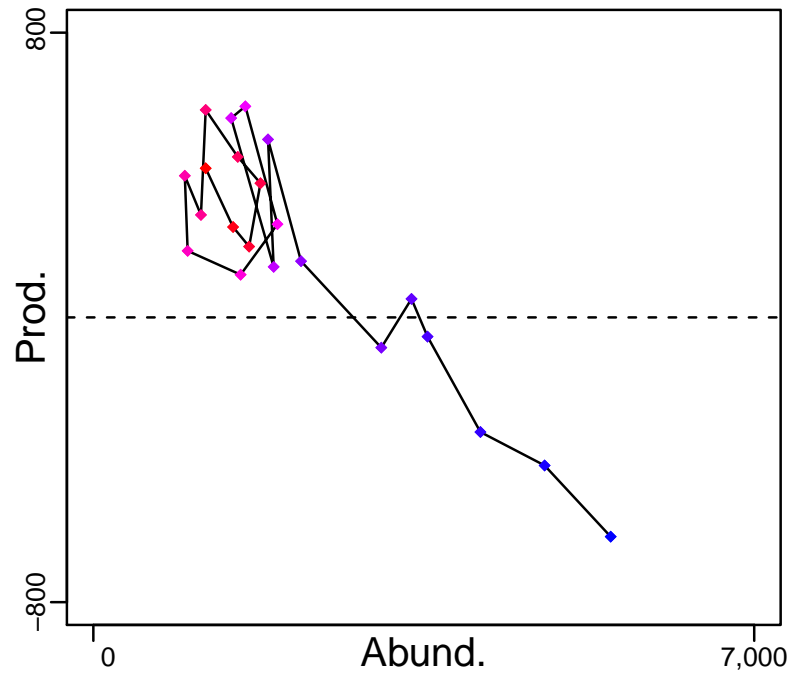
Kobe MGTpref (1986–2008–MOESENEDER)



Spawner Recruit (1986–2008–MOESENEDER)



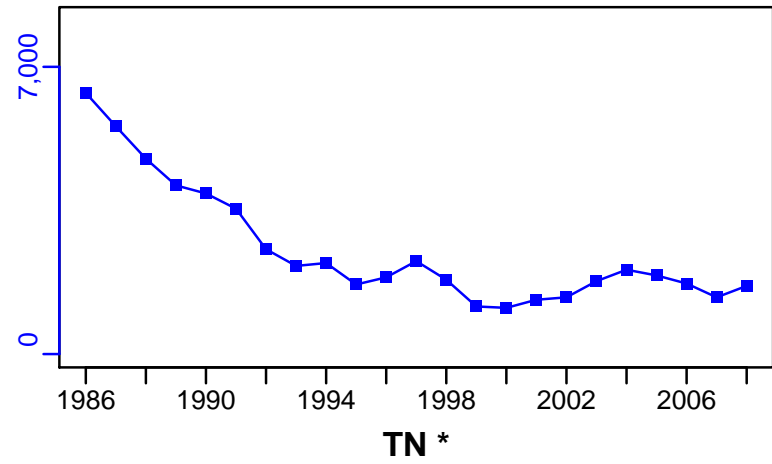
Production (1986–2008–MOESENEDER)



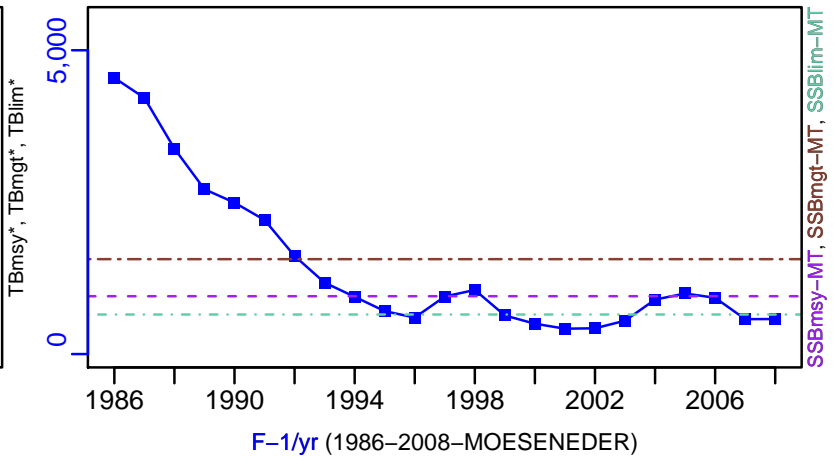
◆ Start Year ◆ End Year \* No Data

# Blue Warehou Western half of Southeast Australia [WAREHOUWSE]

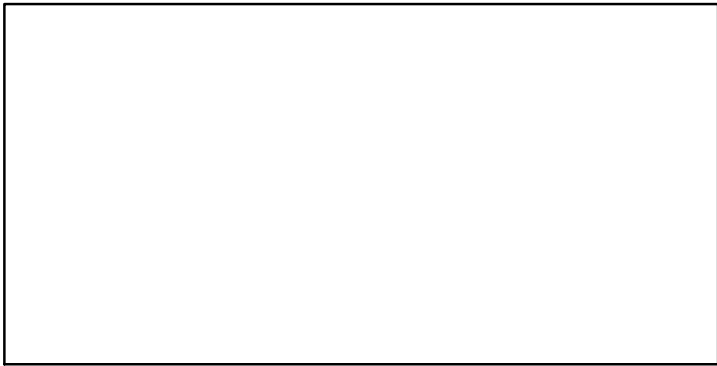
TB-MT (1986-2008-MOESENER)



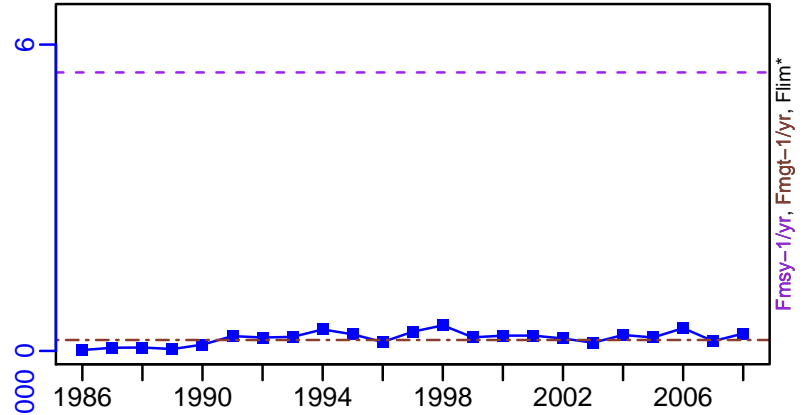
SSB-MT (1986-2008-MOESENER)



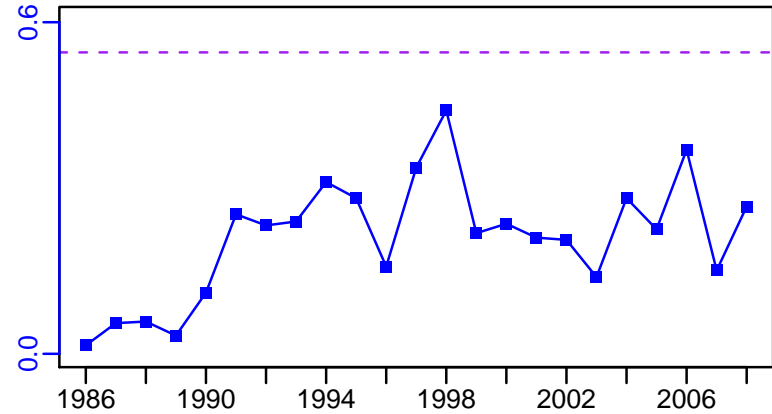
TN \*



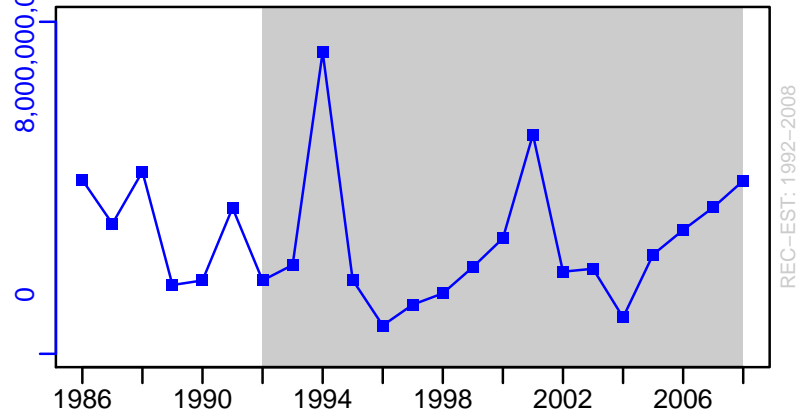
F-1/yr (1986-2008-MOESENER)



ER-ratio (1986-2008-MOESENER)



R-E00 (1986-2008-MOESENER)

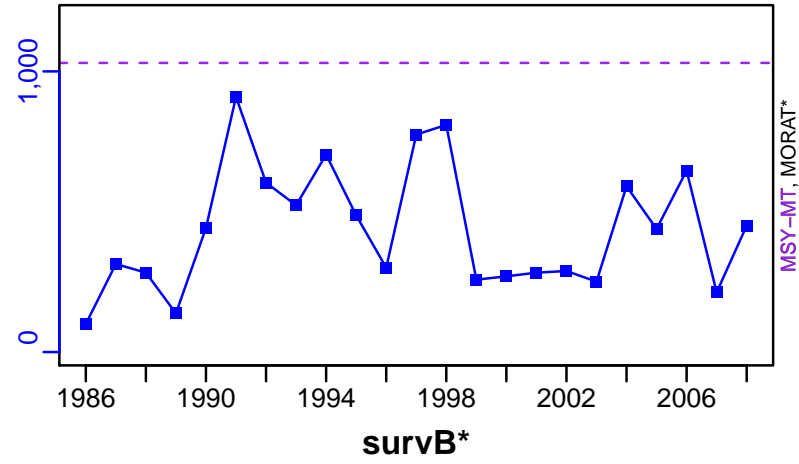




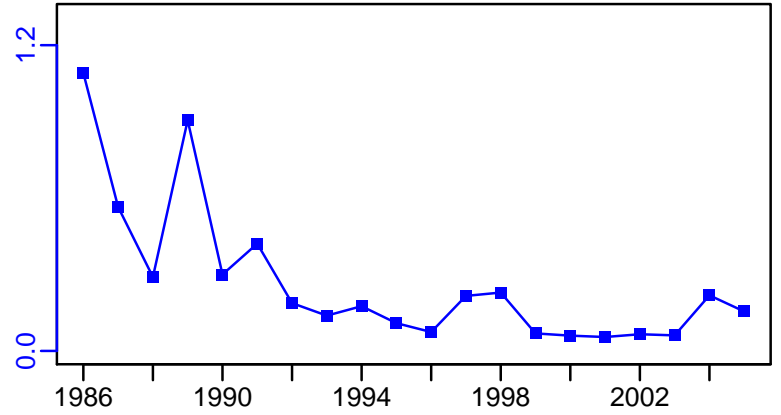
# Blue Warehou Western half of Southeast Australia [WAREHOUWSE]

TL-MT, TC\*, RecC\* (1986-2008-MOESENER)

TAC\*, Cpair\*, Cadv\*



CPUEstand-C/E (1984-2006-FULTON)



EFFORT\*

