## **New Zealand Stocks**

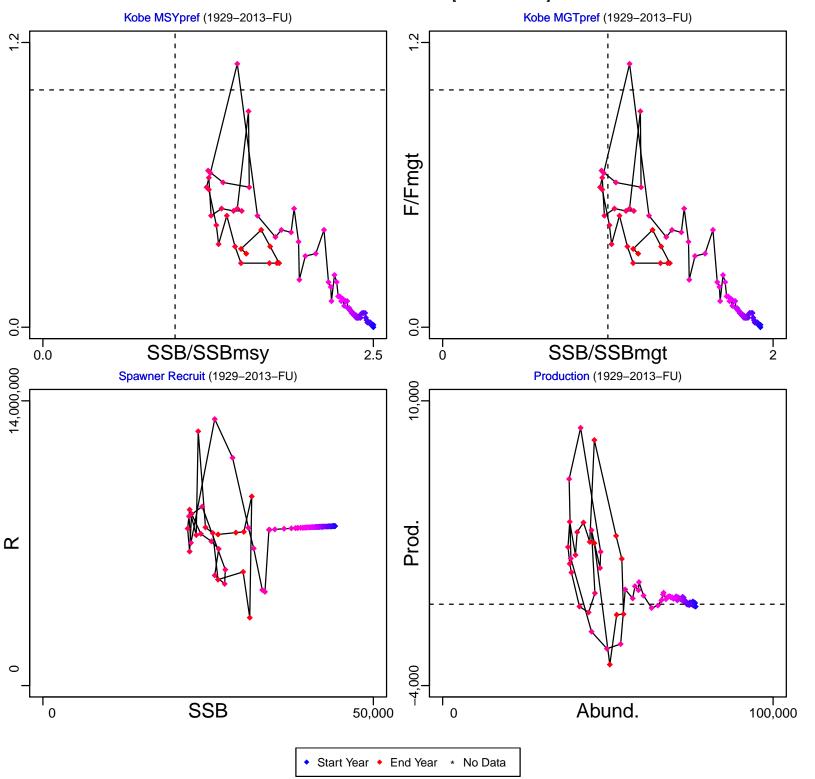
v4.25 (Dec-14-2017)

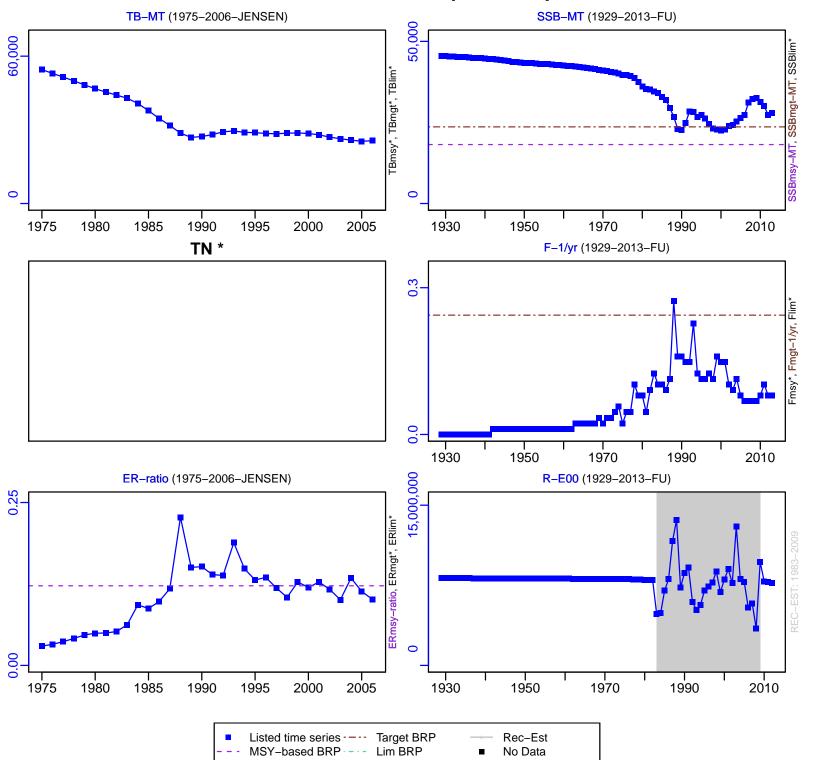
- 1. Australian salmon New Zealand [AUSSALMONNZ]
- 2. Black cardinalfish East coast of North Island [BKCDLFENI]
- 3. Black Oreo Pukaki Rise [BLACKOREOPR]
- 4. Black oreo West end of Chatham Rise [BLACKOREOWECR]
- 5. Bluenose New Zealand [BNSNZ]
- 6. Dredge oyster Foveax Strait [DOYSFS]
- 7. common gemfish New Zealand [GEMFISHNZ]
- 8. Giant stargazer NZ Area STA7 [GSTRGZRSTA7]
- 9. Hoki Eastern New Zealand [HOKIENZ]
- 10. Hoki Western New Zealand [HOKIWNZ]
- 11. New Zealand ling New Zealand Areas LIN 3 and 4 [NZLINGLIN3-4]
- 12. New Zealand ling New Zealand Areas LIN 5 and 6 [NZLINGLIN5-6]
- 13. New Zealand ling New Zealand Area LIN 6b [NZLINGLIN6b]
- 14. New Zealand ling New Zealand Area LIN 72 [NZLINGLIN72]
- 15. New Zealand ling New Zealand Area LIN 7WC WCSI [NZLINGLIN7WC]
- 16. New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf [NZSNAPNZ1BOP-HAGU]
- 17. New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]
- 18. New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]
- 19. New Zealand snapper New Zealand Area 8 [NZSNAPNZ8]
- 20. Orange roughy East and South Chatham Rise [OROUGHYESCR]
- 21. Orange roughy Northwest Chatham Rise [OROUGHYNWCR]
- 22. Orange roughy New Zealand Challenger Plateau [OROUGHYNZ7A]
- 23. Orange roughy New Zealand Mid East Coast [OROUGHYNZMEC]
- 24. Black Foot Paua NZ North PAUA5A [PAUANPAU5A]
- 25. New Zealand abalone species New Zealand Area PAU 5B [PAUAPAU5B]
- 26. New Zealand abalone species New Zealand Area PAU 5D [PAUAPAU5D]
- 27. New Zealand abalone species New Zealand Area PAU 7 [PAUAPAU7]
- 28. Black Foot Paua NZ South PAUA5A [PAUASPAU5A]
- 29. Red rock lobster New Zealand area CRA1 [RROCKLOBSTERCRA1]
- 30. Red rock lobster New Zealand area CRA2 [RROCKLOBSTERCRA2]
- 31. Red rock lobster New Zealand area CRA3 [RROCKLOBSTERCRA3]
- 32. Red rock lobster New Zealand area CRA4 [RROCKLOBSTERCRA4]
- 33. Red rock lobster New Zealand area CRA5 [RROCKLOBSTERCRA5]
- 34. Red rock lobster New Zealand area CRA7 [RROCKLOBSTERCRA7]
- 35. Red rock lobster New Zealand area CRA8 [RROCKLOBSTERCRA8]
- 36. Southern blue whiting Campbell Island Rise [SBWHITACIR]
- 37. Scampi Bay of Plenty [SCMPBP]
- 38. Scampi Mernoo Bank [SCMPMB]
- 39. Scampi Wairapa/Hawke Bay [SCMPWHB]
- 40. Smooth Oreo Bounty Plateau [SMOOTHOREOBP]
- 41. Smooth oreo Chatham Rise [SMOOTHOREOCR]
- 42. Smooth Oreo East Pukaki Rise [SMOOTHOREOEPR]
- 43. Smooth Oreo Southland [SMOOTHOREOSLD]
- 44. Smooth oreo West end of Chatham Rise [SMOOTHOREOWECR]
- 45. Southern hake Chatham Rise [SOUTHHAKECR]
- 46. Southern hake Sub-Antarctic [SOUTHHAKESA]
- 47. Southern hake West Coast South Island [SOUTHHAKEWCSI]
- 48. Tarakihi New Zealand [TARAKNZ]
- 49. Trevally New Zealand Areas TRE 7 [TREVALLYTRE7]

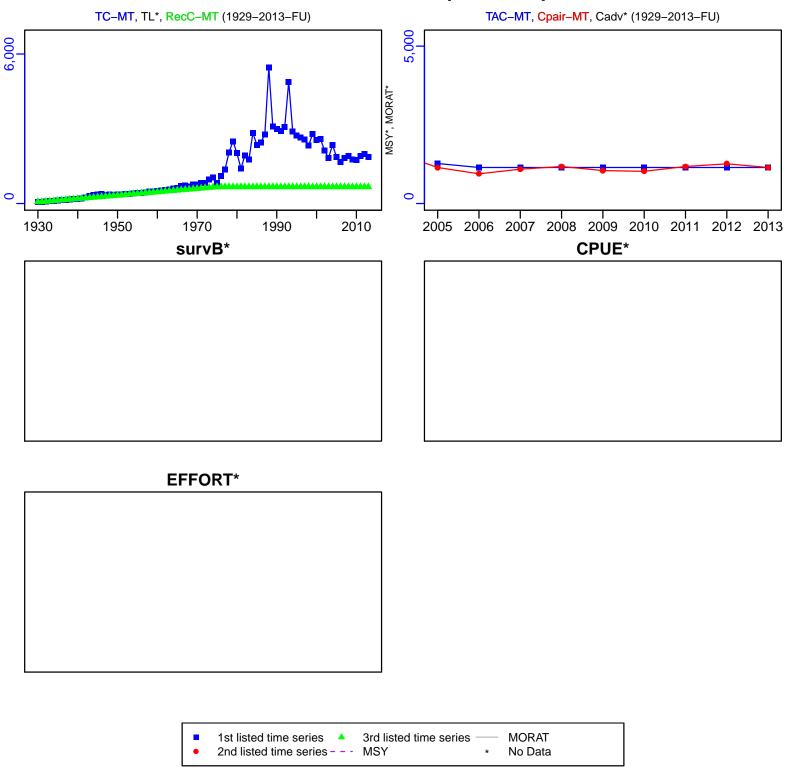
Metadata			
Scientific Name	Arripis trutta		
Current Assess ID	NIWA-AUSSALMONNZ-1929-2013-FU		
Area	New Zealand		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013, 2006		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2013	17,680
Fmsy	Fmsy-1/yr	2006	0.32
ERmsy	ERmsy-ratio	2006	0.12
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	22,984
Fmgt	Fmgt-1/yr	2013	0.21
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2013	44,200
MSY	MSY-MT	2006	3372
M	M-1/yr	2013	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	22,600	-	1+
SSB	SSB-MT	2013	27,200	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	7,430,000	Both	-
F	F-1/yr	2013	0	Both	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1680		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.54		
F/Fmsy	F-1/yr/Fmsy-1/yr	2006	0.33		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	0.83		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.18		
F/Fmgt	FdivFmgt-dimensionless	2013	0.31		
ER/ERmgt	-	-	-		



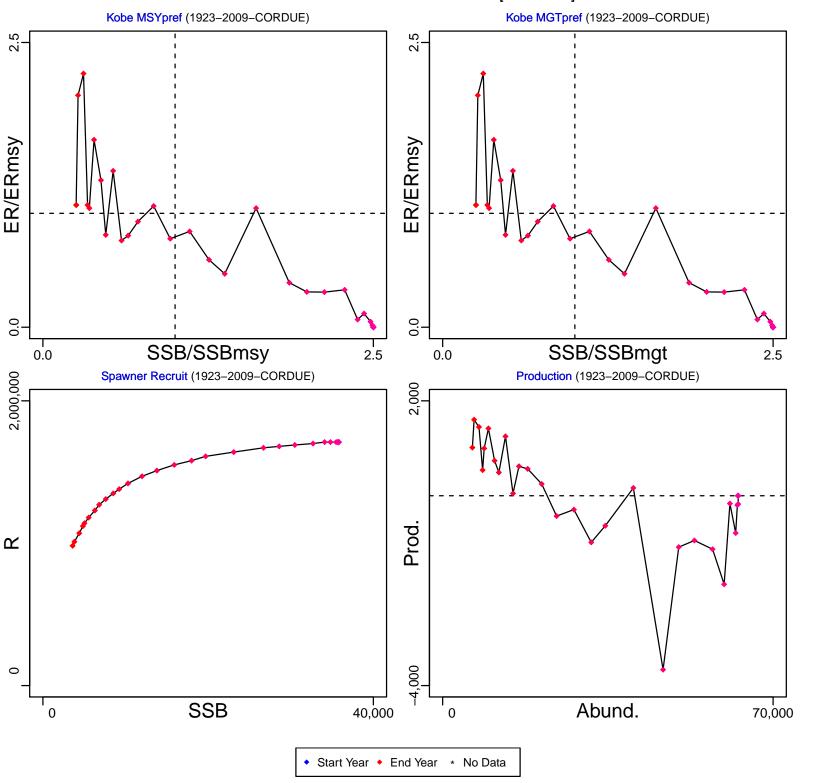


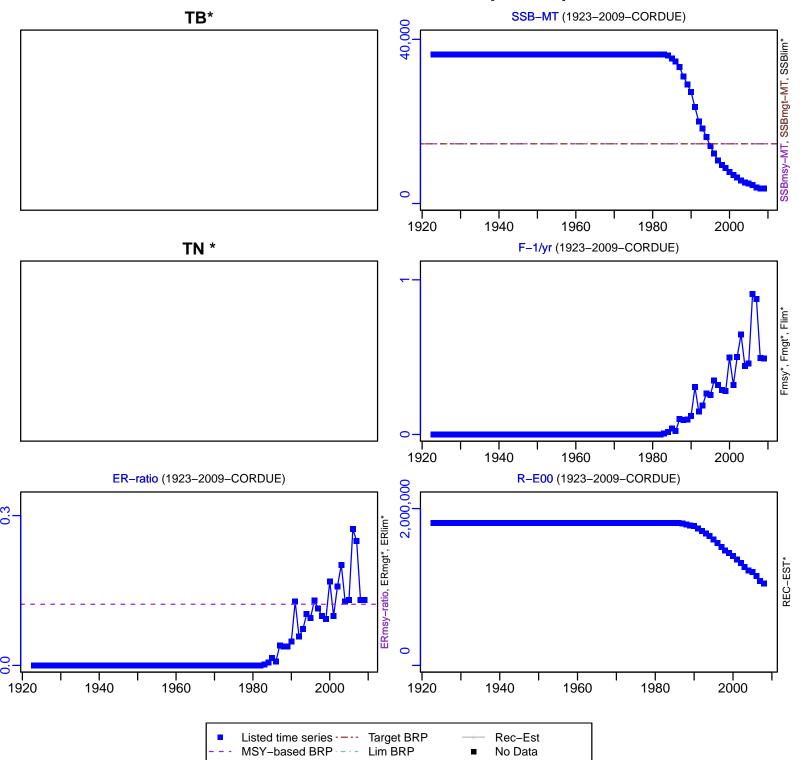


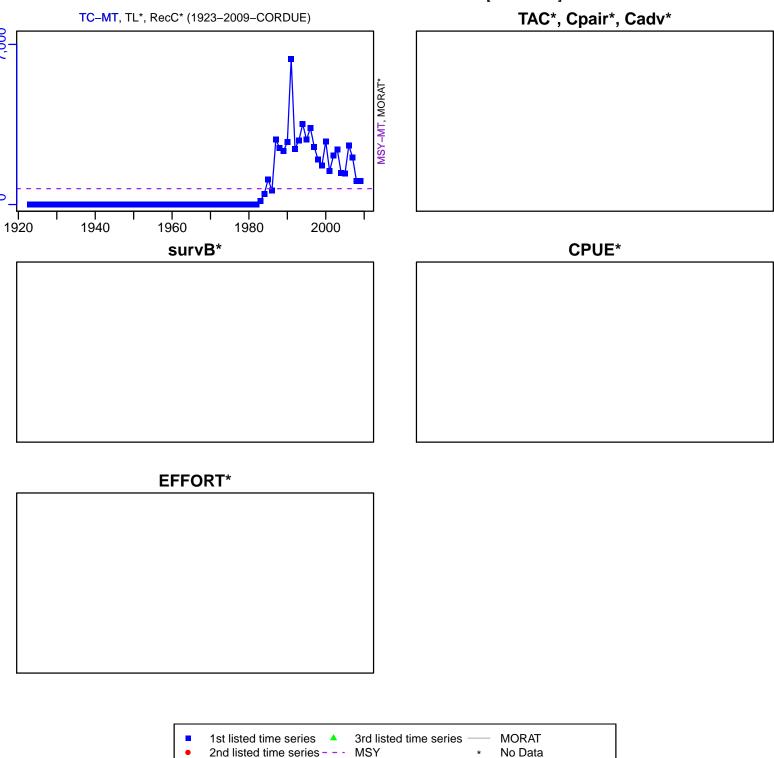
Metadata			
Scientific Name	Epigonus telescopus		
Current Assess ID	NIWA-BKCDLFENI-1923-2009-CORDUE		
Area	East coast of North Island		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2009	6055	
SSBmsy	SSBmsy-MT	2009	14,322	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.11	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2009	14,322	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	35,804	
MSY	MSY-MT	2009	666	
M	M-1/yr	2009	0.04	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2009	3620	Both	39.5
TN	-	-	-	-	-
R	R-E00	2009	982,000	-	1
F	F-1/yr	2009	0	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	980		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.25		
F/Fmsy	FdivFmsy-dimensionless	2009	4.16		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	1.07		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.25		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



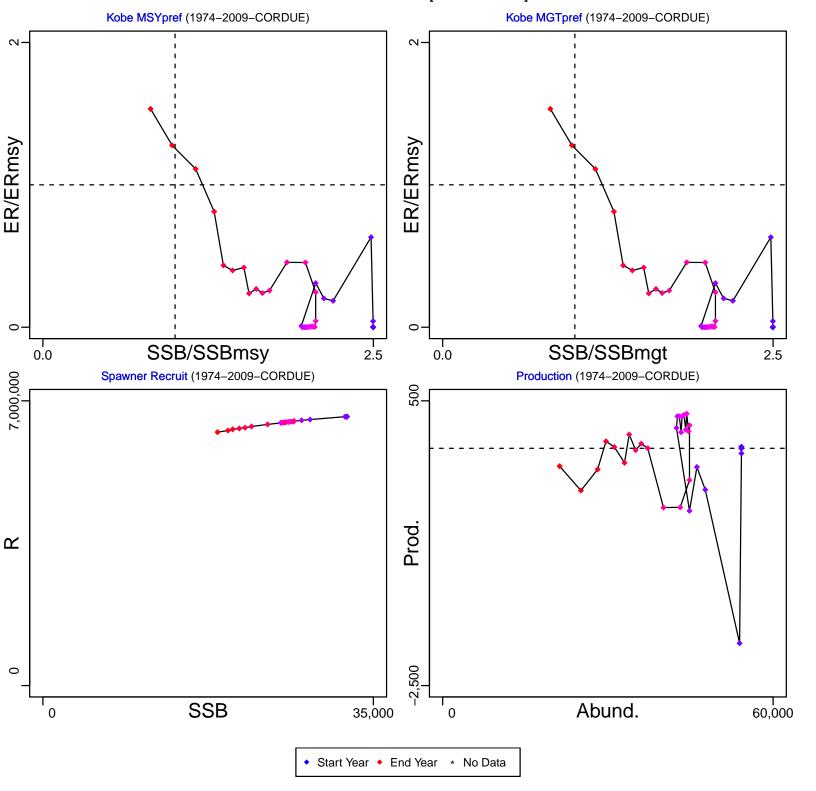


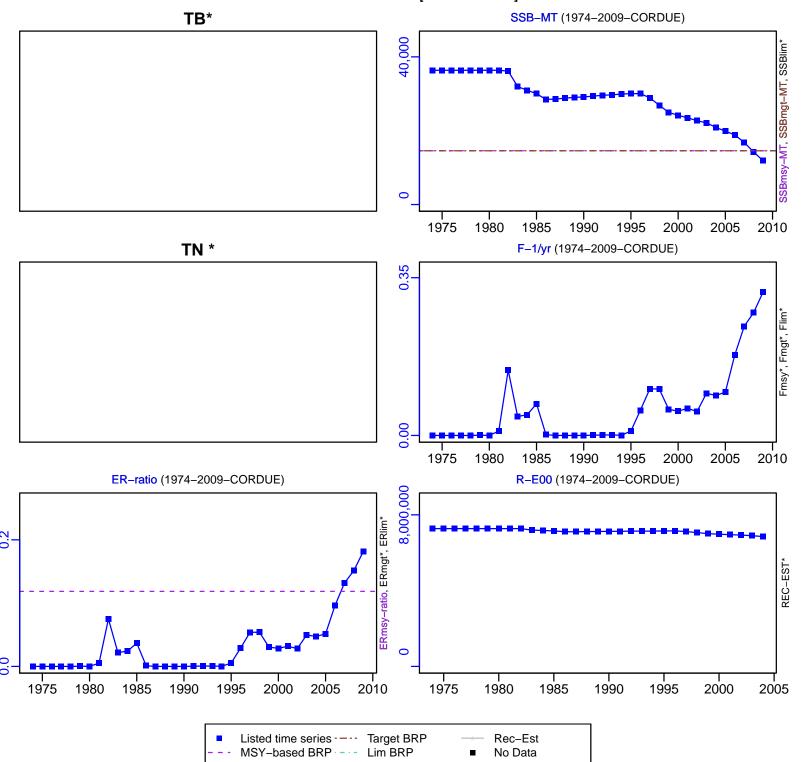


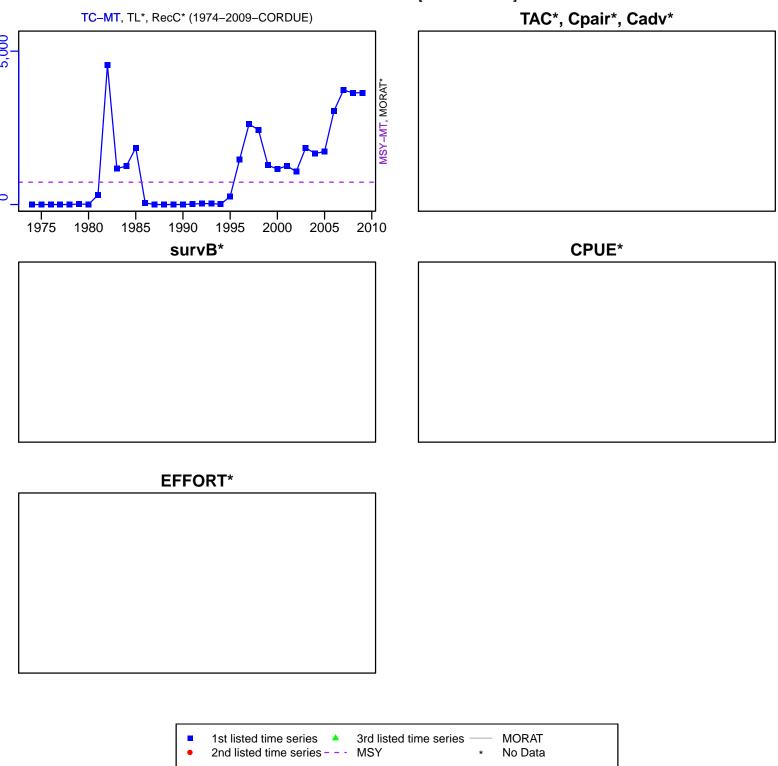
Metadata			
Scientific Name	Allocyttus niger		
Current Assess ID	NIWA-BLACKOREOPR-1974-2009-CORDUE		
Area	Pukaki Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2009	7444	
SSBmsy	SSBmsy-MT	2009	12,889	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.09	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2009	12,889	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	32,224	
MSY	MSY-MT	2009	670	
М	M-1/yr	2009	0.04	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2009	10,500	Both	37.7
TN	-	-	-	-	-
R	R-E00	2009	6,230,000	-	5
F	F-1/yr	2009	0	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	3350		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.81		
F/Fmsy	FdivFmsy-dimensionless	2009	3.5		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	1.53		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.81		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



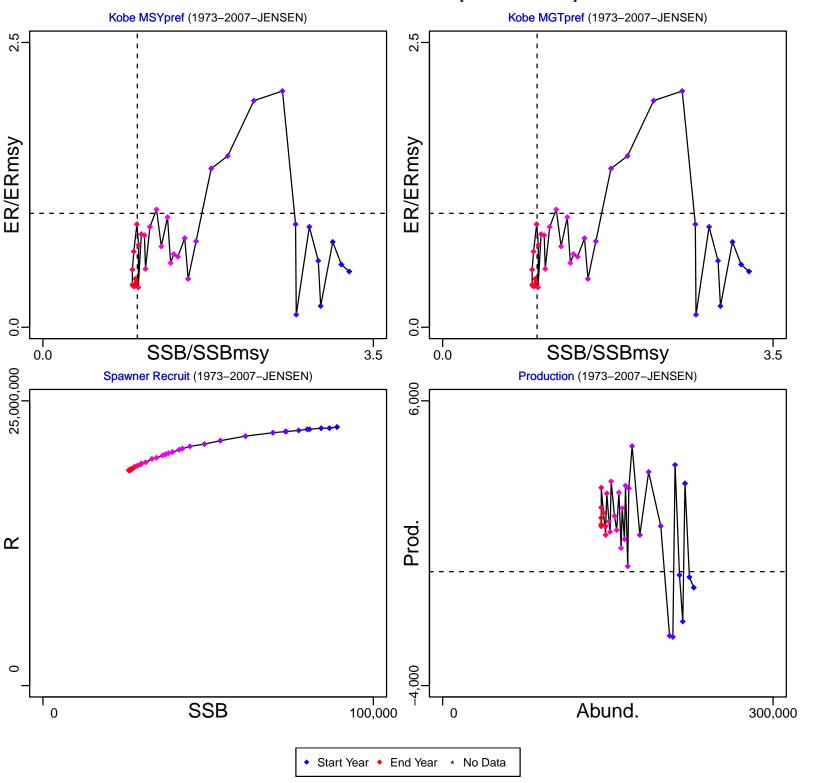


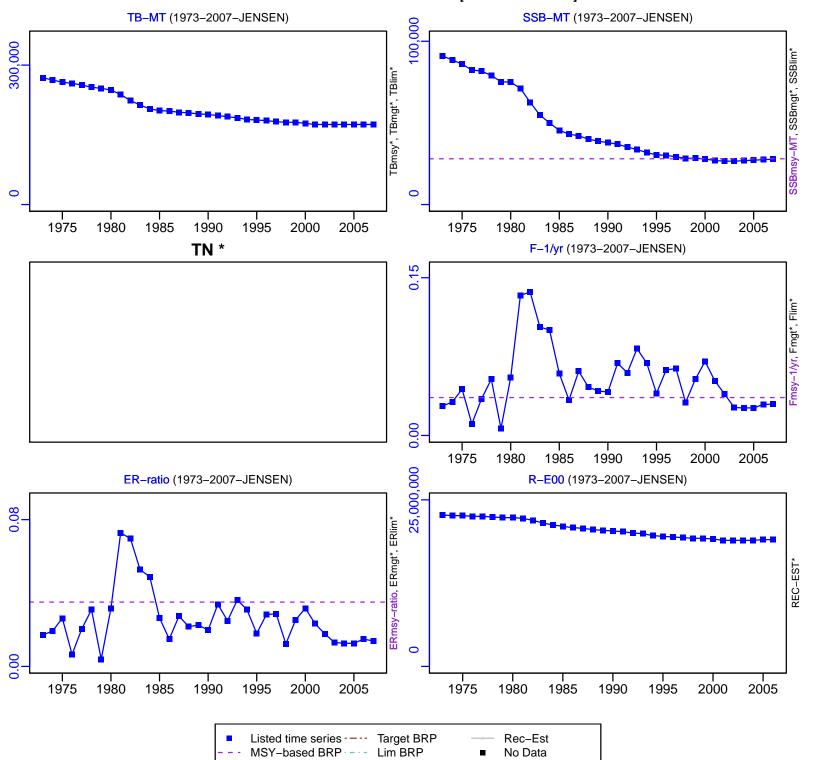


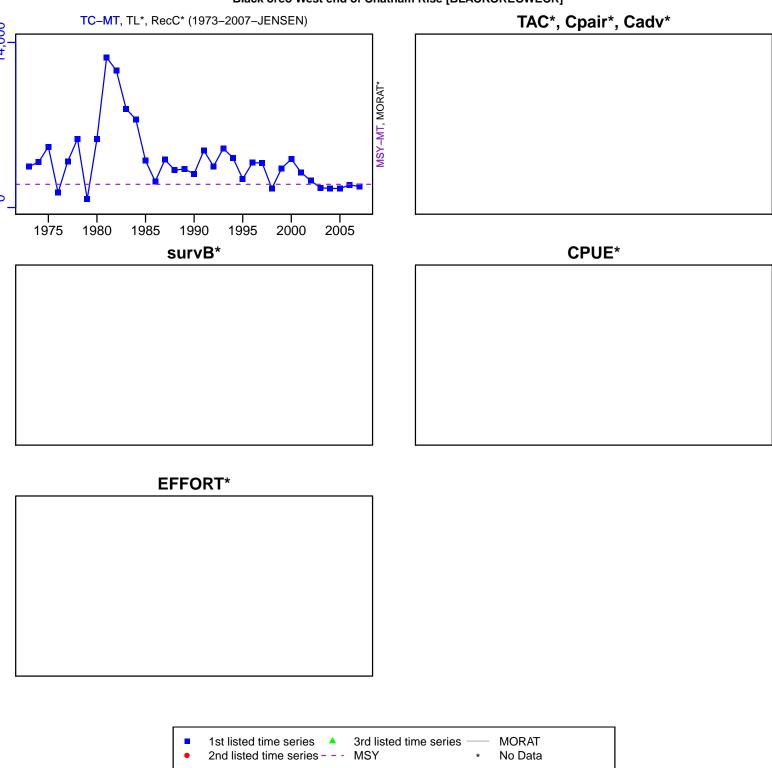
Metadata			
Scientific Name	Allocyttus niger		
Current Assess ID	NZMFishDEEPWATER-BLACKOREOWECR-1973-2007-JENSEN		
Area West end of Chatham Rise			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Deepwater Working Group		
Asmts in RAM	2007		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2007	27,427		
Fmsy	Fmsy-1/yr	2007	0.03		
ERmsy	ERmsy-ratio	2007	0.03		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2007	88,923		
MSY	MSY-MT	2007	1947		
М	M-1/yr	2007	0.04		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	144,000	-	1
SSB	SSB-MT	2007	27,200	-	-
TN	-	-	-	-	-
R	R-E00	2007	$1.9 \times 10^7$	-	1
F	F-1/yr	2007	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	1770		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	0.99		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.82		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.4		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





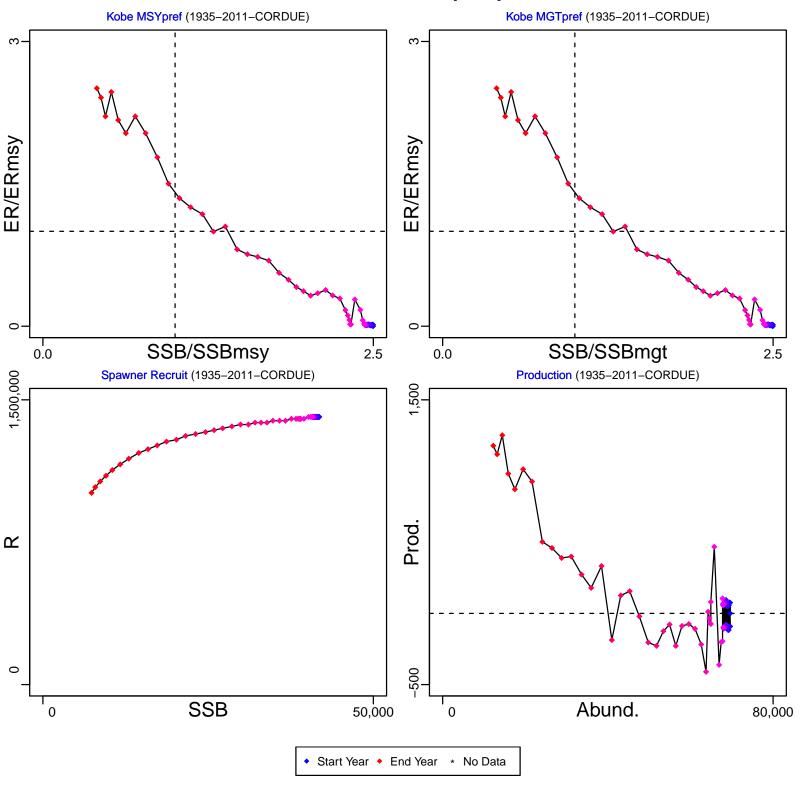


# Bluenose New Zealand [BNSNZ]

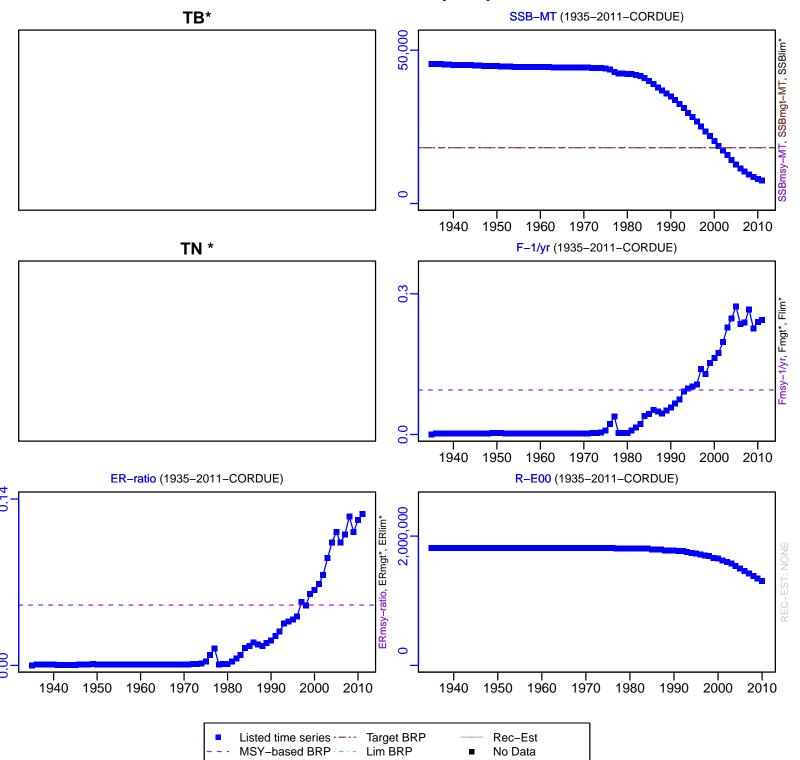
Metadata			
Scientific Name	Hyperoglyphe antarctica		
Current Assess ID	NZMFishINSHOREWG-BNSNZ-1935-2011-CORDUE		
Area	New Zealand		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Inshore Working Group		
Asmts in RAM	2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2011	16,737	
Fmsy	Fmsy-1/yr	2011	0.08	
ERmsy	ERmsy-ratio	2011	0.05	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2011	16,737	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2011	41,843	
MSY	MSY-MT	2011	1209	
М	M-1/yr	2011	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

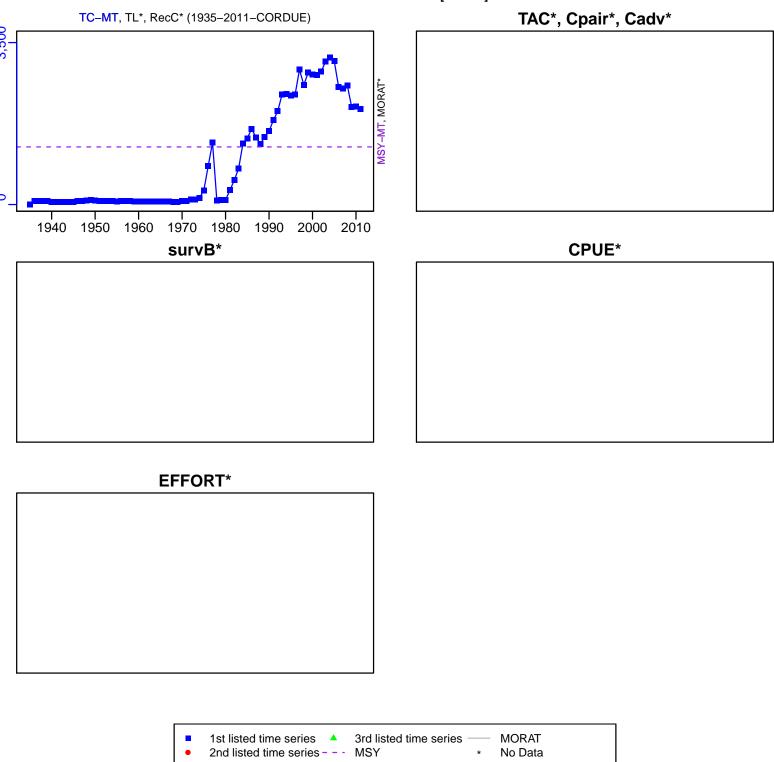
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2011	6830	Both	17+
TN	-	-	-	-	-
R	R-E00	2011	1,010,000	-	1
F	F-1/yr	2011	0	-	-
ER	ER-ratio	2011	0	-	-
TC	TC-MT	2011	2000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.41		
F/Fmsy	FdivFmsy-dimensionless	2011	2.71		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	2.51		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.41		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Bluenose New Zealand [BNSNZ]



### Bluenose New Zealand [BNSNZ]

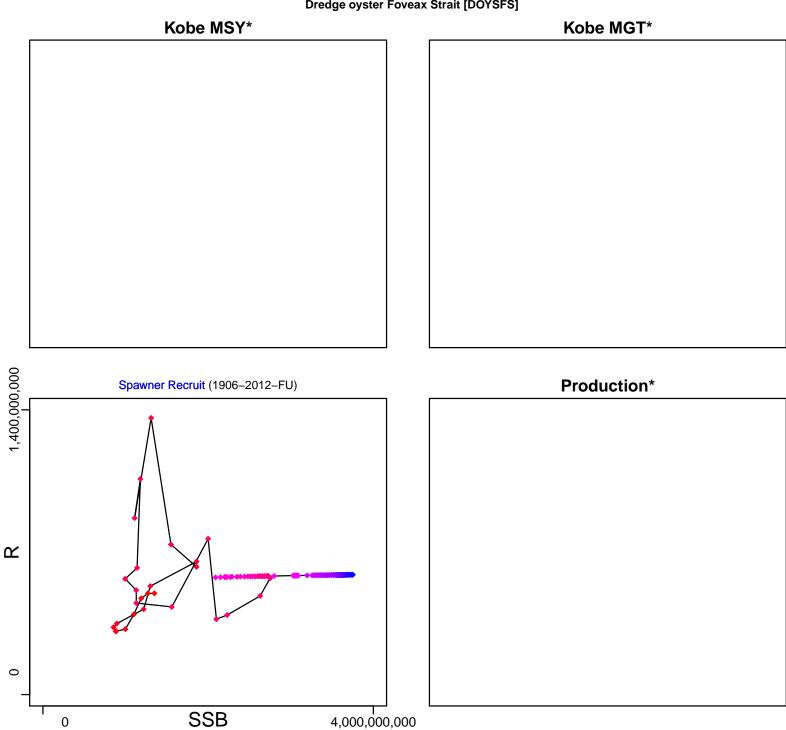


# **Dredge oyster Foveax Strait [DOYSFS]**

Metadata			
Scientific Name	Ostrea chilensis		
Current Assess ID	NIWA-DOYSFS-1906-2012-FU		
Area Foveax Strait			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2012		

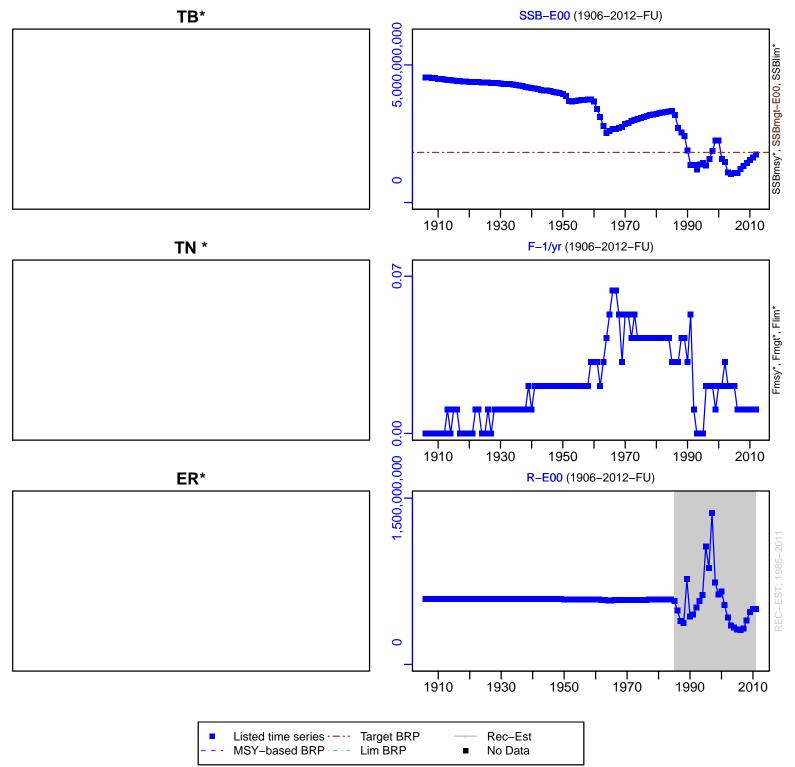
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	SSBmgt-E00	2012	1,501,772,000		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2012	0.1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

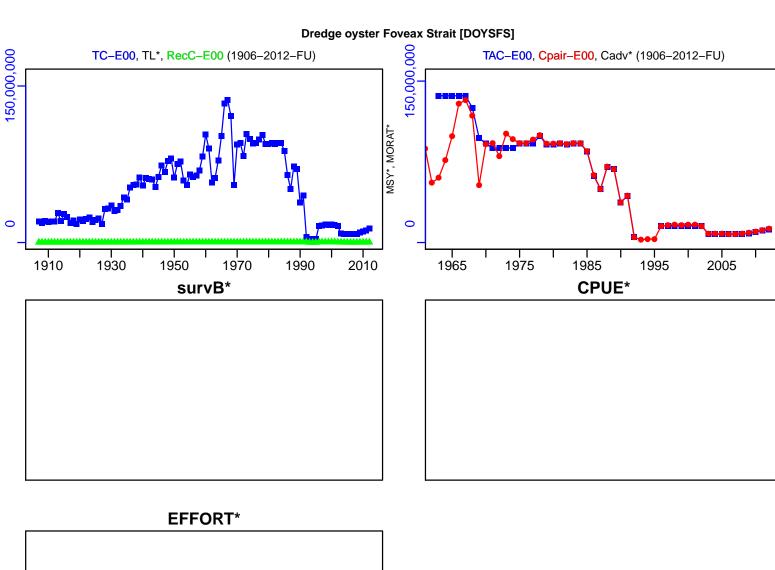
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2012	$1.44 \times 10^{9}$	-	-
TN	-	-	-	-	-
R	R-E00	2012	$4.98 \times 10^{8}$	Both	-
F	F-1/yr	2012	0	Both	-
ER	-	-	-	-	-
TC	TC-E00	2012	12,600,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSBdivSSBmgt-dimensionless	2012	0.9		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

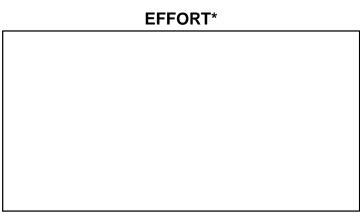


Start Year ◆ End Year \* No Data

### Dredge oyster Foveax Strait [DOYSFS]





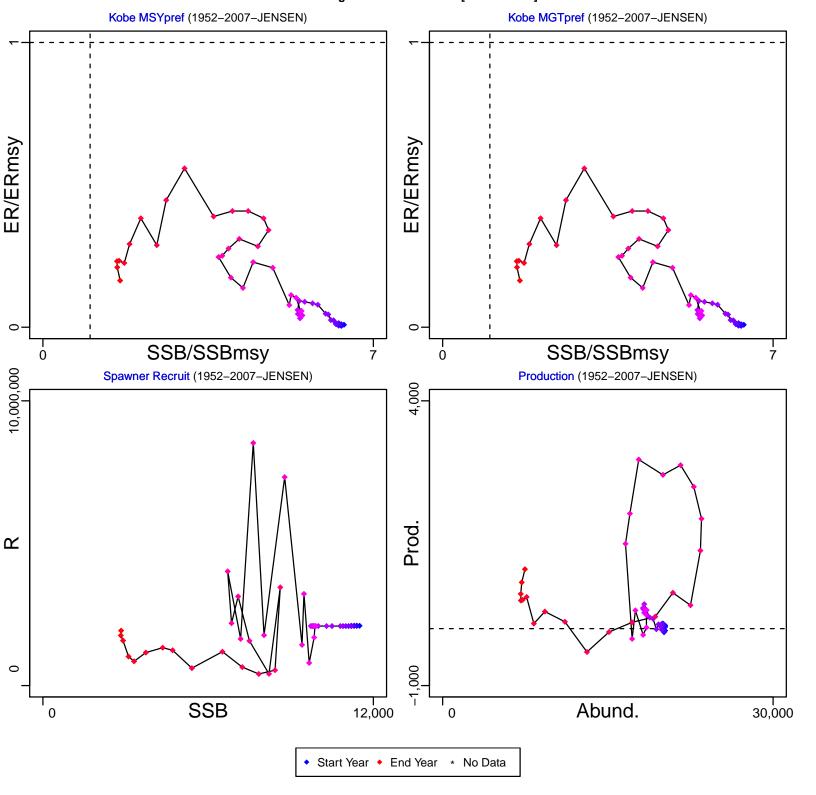


# common gemfish New Zealand [GEMFISHNZ]

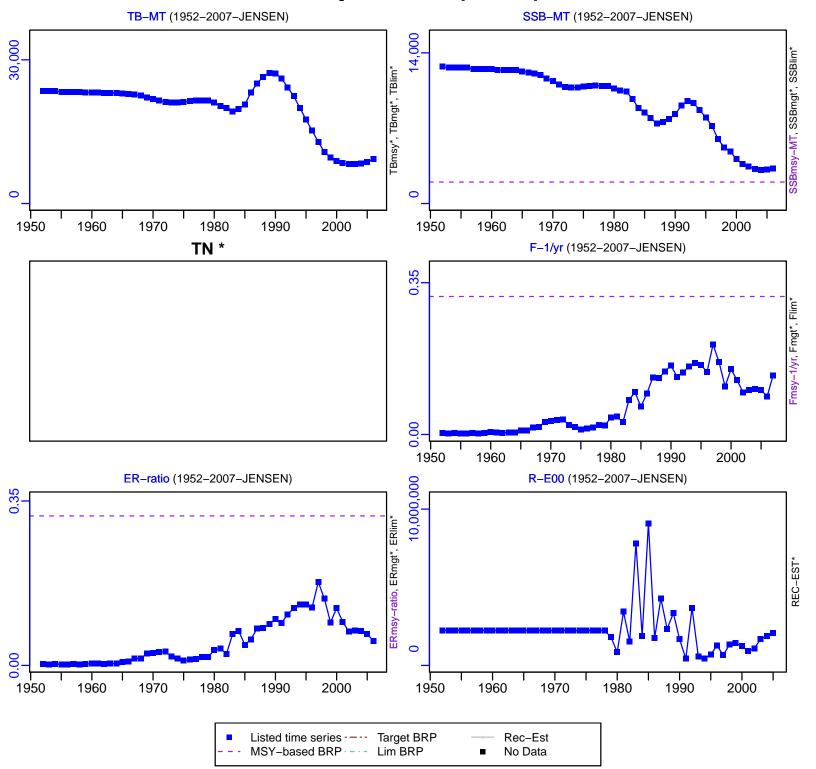
Metadata			
Scientific Name	Rexea solandri		
Current Assess ID NZMFishMIDDEPTHSWG-GEMFISHNZ-1952-2007-JENSEN			
Area New Zealand			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Assessor Middle Depths Working Group		
Asmts in RAM	2007		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2007	1803		
Fmsy	Fmsy-1/yr	2007	0.29		
ERmsy	ERmsy-ratio	2007	0.31		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2007	11,485		
MSY	MSY-MT	2007	1432		
М	M-1/yr	2007	0.24		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

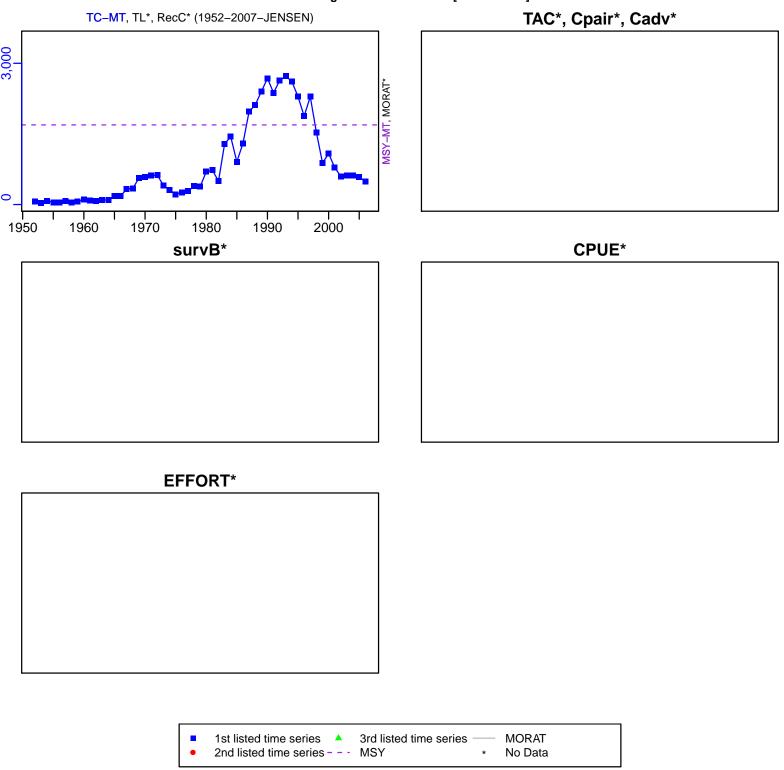
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	8020	-	1
SSB	SSB-MT	2007	2950	-	-
TN	-	-	-	-	-
R	R-E00	2007	1,930,000	-	1
F	F-1/yr	2007	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	412		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	1.64		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.43		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.16		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### common gemfish New Zealand [GEMFISHNZ]



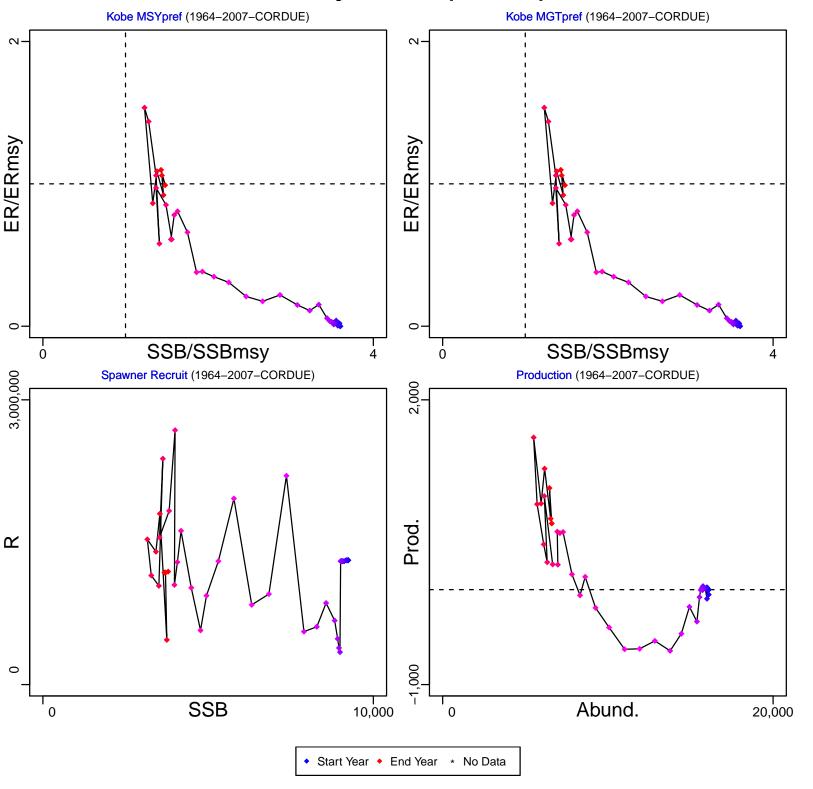
## common gemfish New Zealand [GEMFISHNZ]

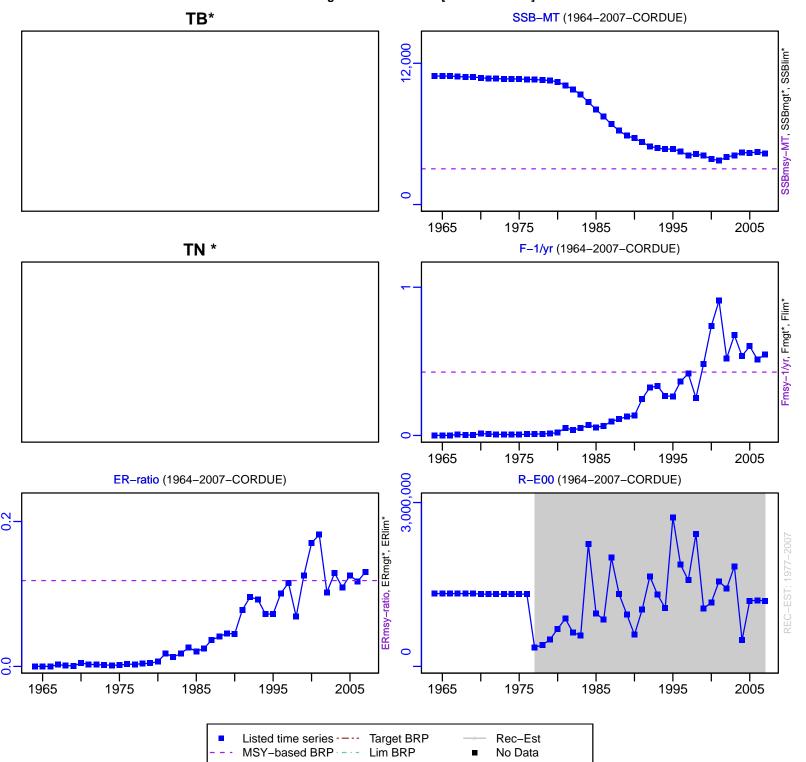


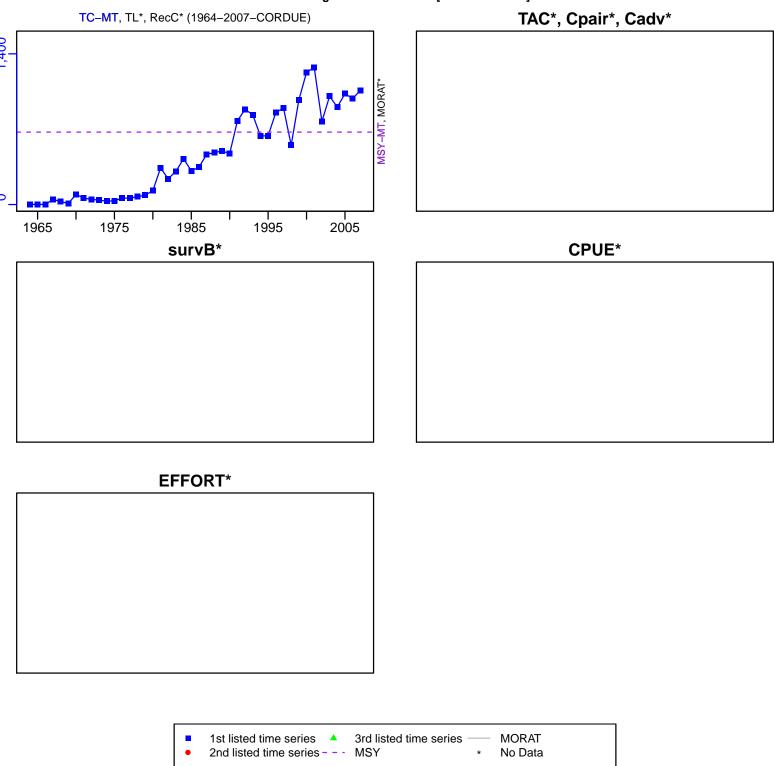
Metadata			
Scientific Name	Kathetostoma giganteum		
Current Assess ID	NIWA-GSTRGZRSTA7-1964-2007-CORDUE		
Area NZ Area STA7			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2007	2568		
Fmsy	Fmsy-1/yr	2007	0.38		
ERmsy	ERmsy-ratio	2007	0.1		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2007	9237		
MSY	MSY-MT	2007	608		
M	M-1/yr	2007	0.18		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2007	3680	Both	-
TN	-	-	-	-	-
R	R-E00	2007	1,180,000	-	0
F	F-1/yr	2007	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	958		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	1.43		
F/Fmsy	FdivFmsy-dimensionless	2007	1.28		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	1.1		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





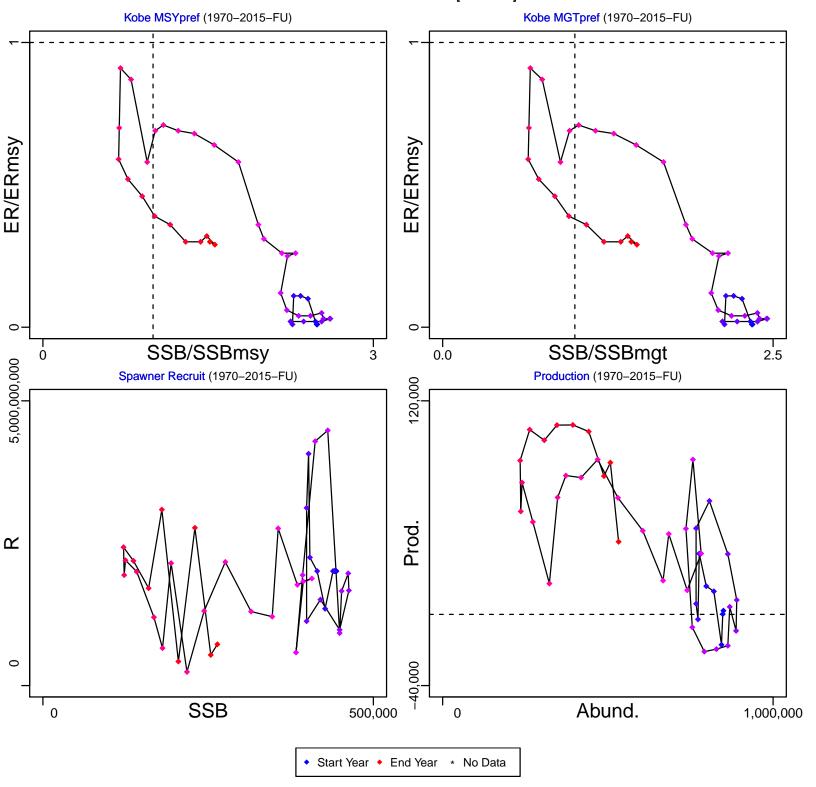


# Hoki Eastern New Zealand [HOKIENZ]

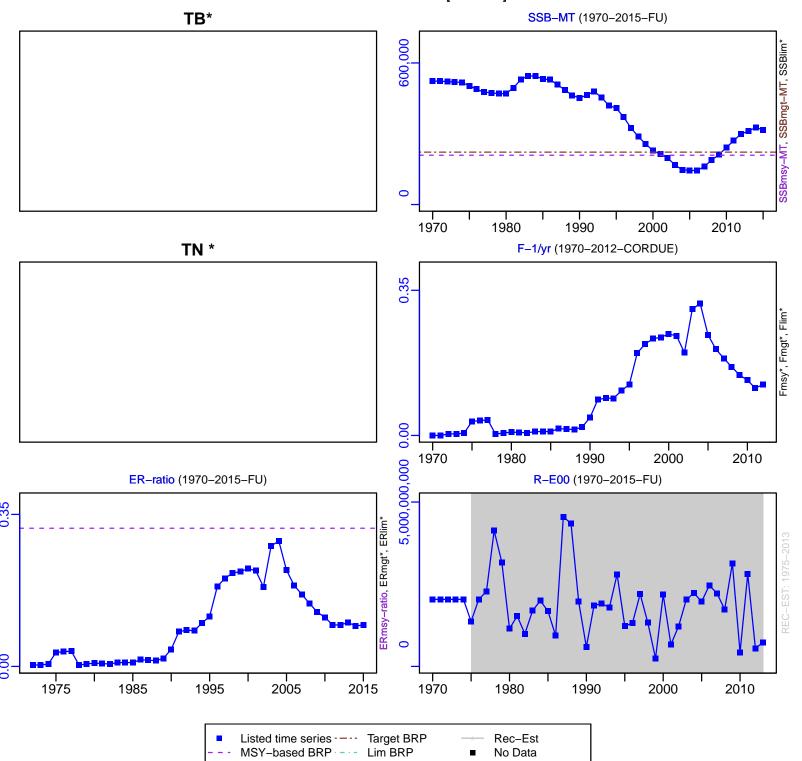
Metadata				
Scientific Name	Macruronus novaezelandiae			
Current Assess ID	NIWA-HOKIENZ-1970-2015-FU			
Area	Eastern New Zealand			
Management Authority	Ministry of Fisheries, New Zealand national management			
Assessor	National Institute of Water and Atmospheric Research			
Asmts in RAM	2012, 2015			

Reference Points							
Туре	ID	Asmt Year	Value				
TBmsy	TBmsy-MT	2012	307,143				
SSBmsy	SSBmsy-MT	2015	177,430				
Fmsy	-	-	-				
ERmsy	ERmsy-ratio	2015	0.29				
TBmgt	-	-	-				
SSBmgt	SSBmgt-MT	2015	188,519				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	SSB0-MT	2015	443,574				
MSY	MSY-MT	2015	73,100				
М	M-1/yr	2015	0.29				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

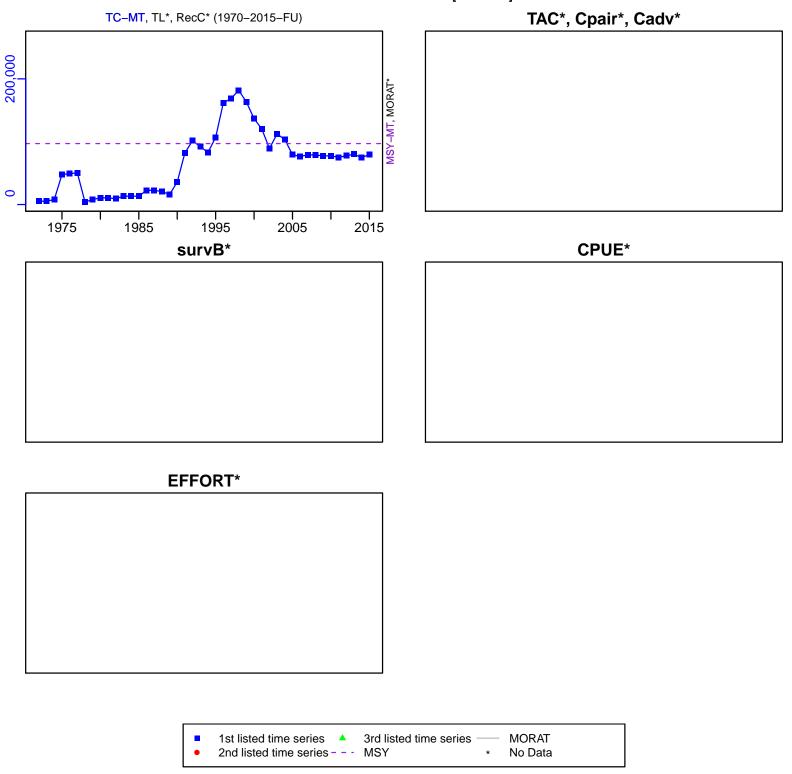
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2015	269,000	-	3+		
TN	-	-	-	-	-		
R	R-E00	2015	$7.24 \times 10^{8}$	Both	-		
F	F-1/yr	2012	0	-	-		
ER	ER-ratio	2015	0	Both	-		
TC	TC-MT	2015	60,000				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.52				
F/Fmsy	FdivFmsy-dimensionless	2012	0.38				
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.3				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.43				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				



#### Hoki Eastern New Zealand [HOKIENZ]



#### Hoki Eastern New Zealand [HOKIENZ]

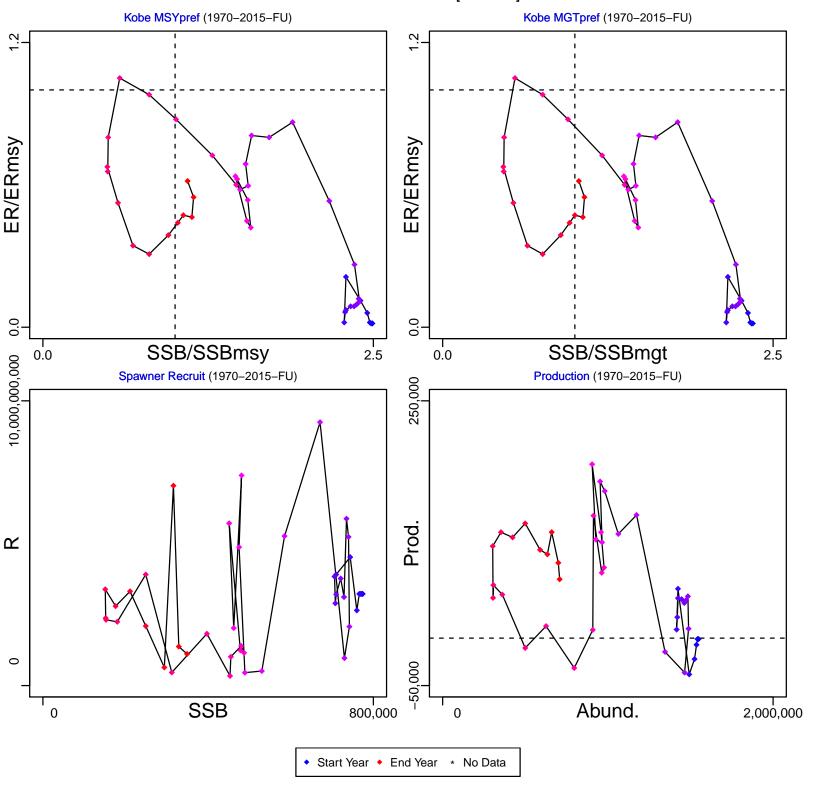


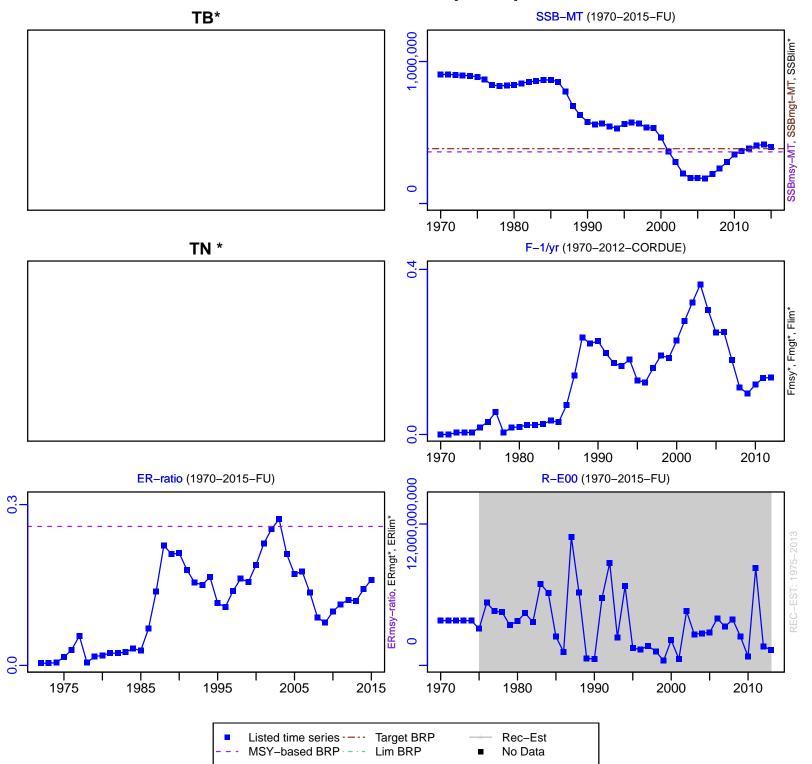
# Hoki Western New Zealand [HOKIWNZ]

Metadata		
Scientific Name	Macruronus novaezelandiae	
Current Assess ID	NIWA-HOKIWNZ-1970-2015-FU	
Area Western New Zealand		
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	National Institute of Water and Atmospheric Research	
Asmts in RAM	2012, 2015	

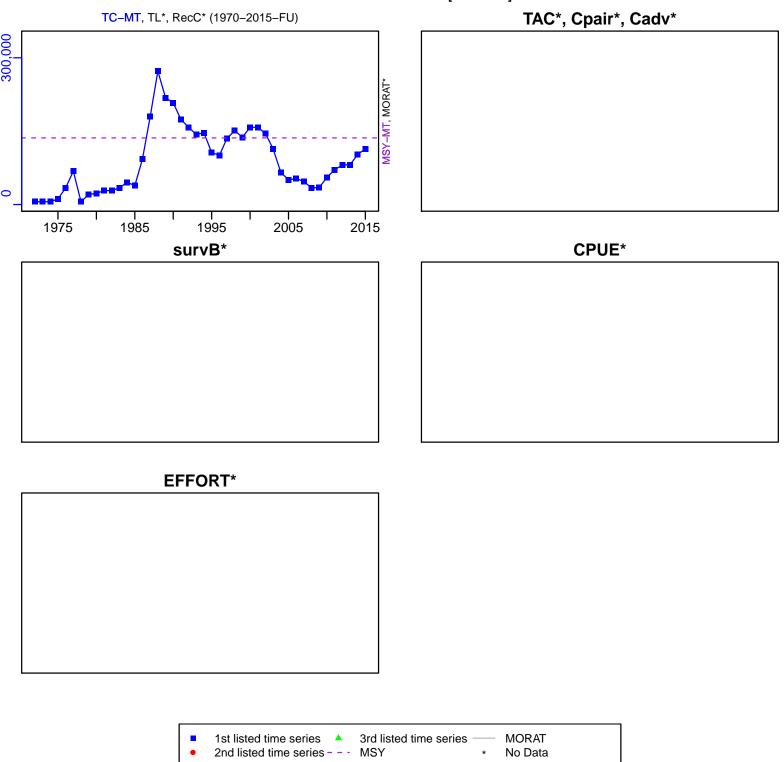
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2012	508,000
SSBmsy	SSBmsy-MT	2015	309,678
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2015	0.25
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2015	329,032
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2015	774,194
MSY	MSY-MT	2015	119,800
М	M-1/yr	2015	0.29
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2015	339,000	-	3+
TN	-	-	-	-	-
R	R-E00	2015	$1.11 \times 10^9$	Both	-
F	F-1/yr	2012	0	-	-
ER	ER-ratio	2015	0	Both	-
TC	TC-MT	2015	$1 \times 10^5$		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	1.09		
F/Fmsy	FdivFmsy-dimensionless	2012	0.55		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.62		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	1.03		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





#### Hoki Western New Zealand [HOKIWNZ]

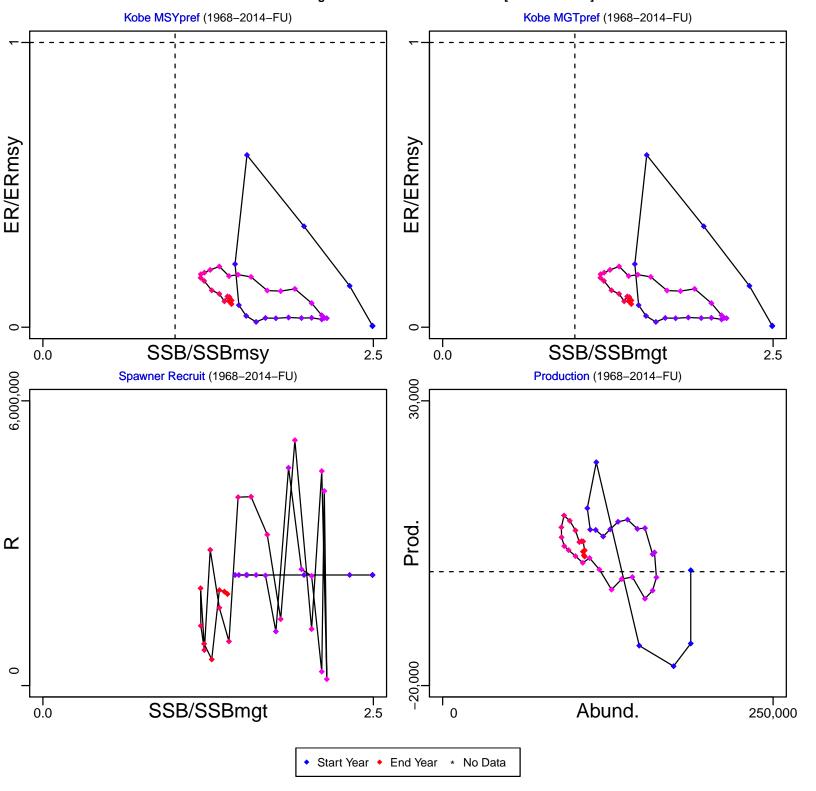


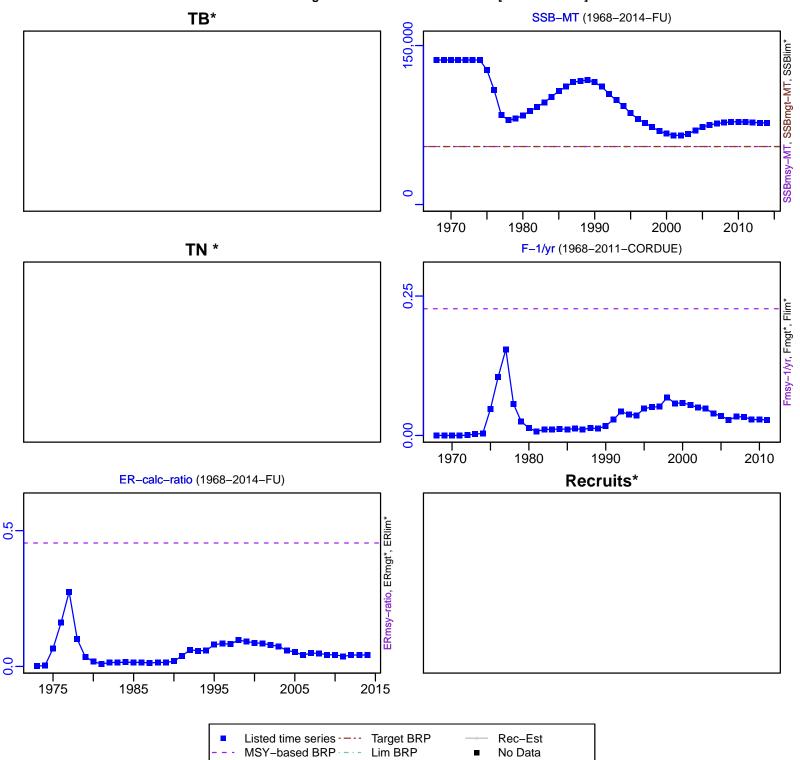
# New Zealand ling New Zealand Areas LIN 3 and 4 [NZLINGLIN3-4]

Metadata		
Scientific Name	Genypterus blacodes	
Current Assess ID	NIWA-NZLINGLIN3-4-1968-2014-FU	
Area	New Zealand Areas LIN 3 and 4	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	National Institute of Water and Atmospheric Research	
Asmts in RAM	2011, 2014	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	52,140
Fmsy	Fmsy-1/yr	2011	0.19
ERmsy	ERmsy-ratio	2014	0.37
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	52,140
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2014	130,349
MSY	MSY-MT	2014	6424
M	M-1/yr	2014	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2014	0.09		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



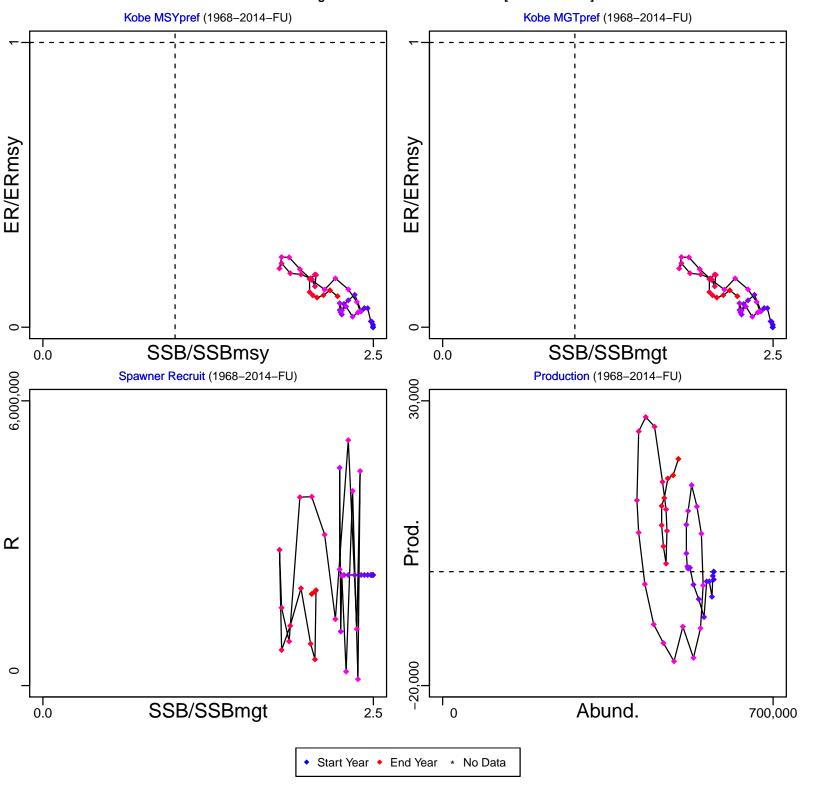


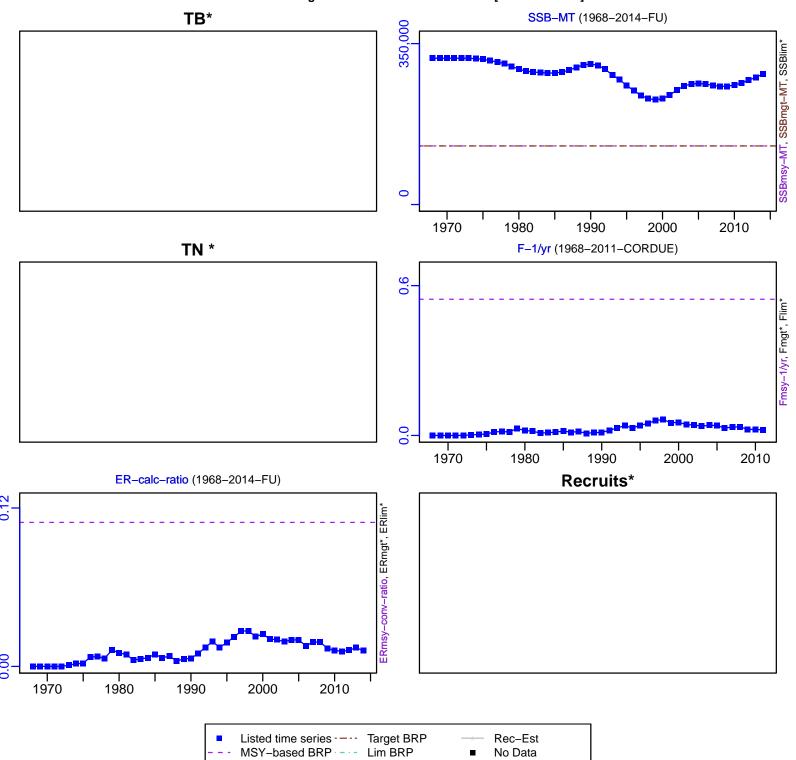
TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	
<ul> <li>1st listed time series  3rd</li> <li>2nd listed time series MS</li> </ul>	listed time series — MORAT Y * No Data

Metadata		
Scientific Name	Genypterus blacodes	
Current Assess ID	NIWA-NZLINGLIN5-6-1968-2014-FU	
Area	New Zealand Areas LIN 5 and 6	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	National Institute of Water and Atmospheric Research	
Asmts in RAM	2011, 2014	

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	122,923	
Fmsy	Fmsy-1/yr	2011	0.49	
ERmsy	ERmsy-ratio	2011	0.16	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	122,923	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	307,308	
MSY	MSY-MT	2014	23,827	
М	M-1/yr	2014	0.23	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.05		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



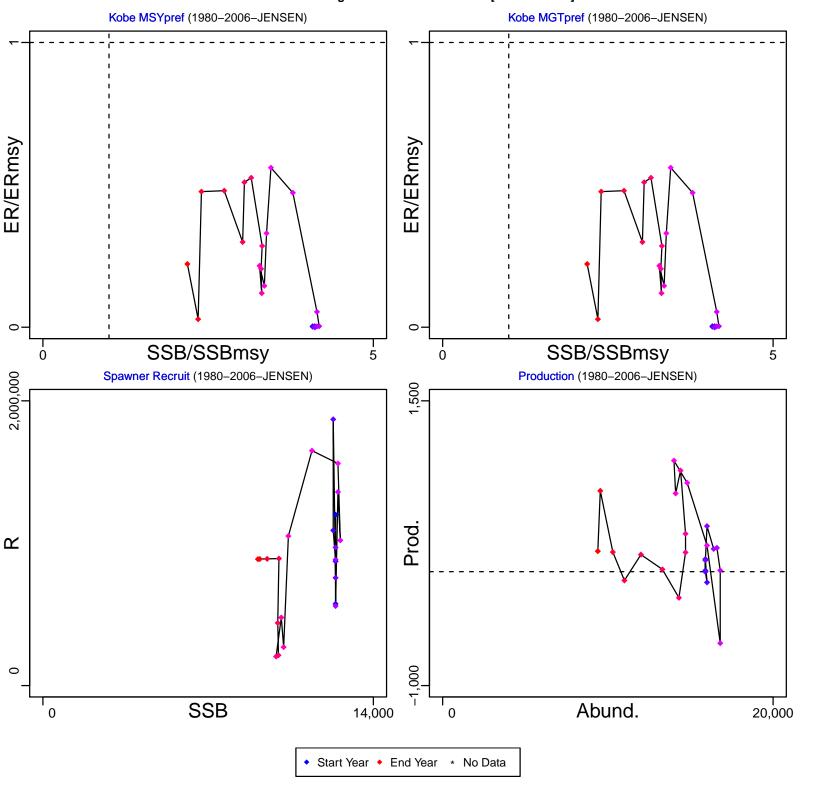


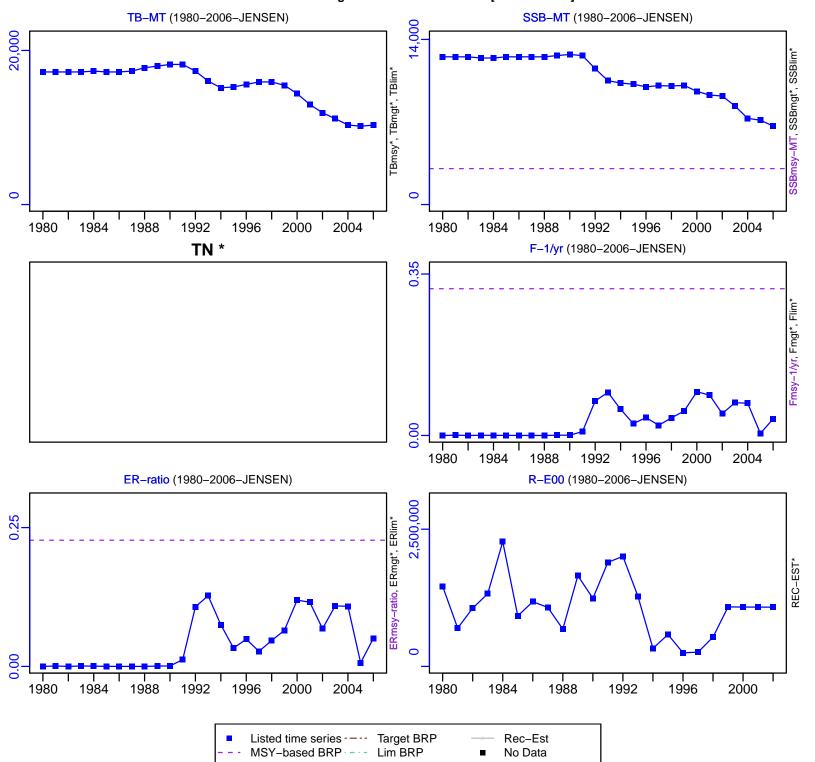
TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	
EFFORT	
■ 1st listed time series ▲ 3rd	listed time series — MORAT
2nd listed time series MS*	Y * No Data

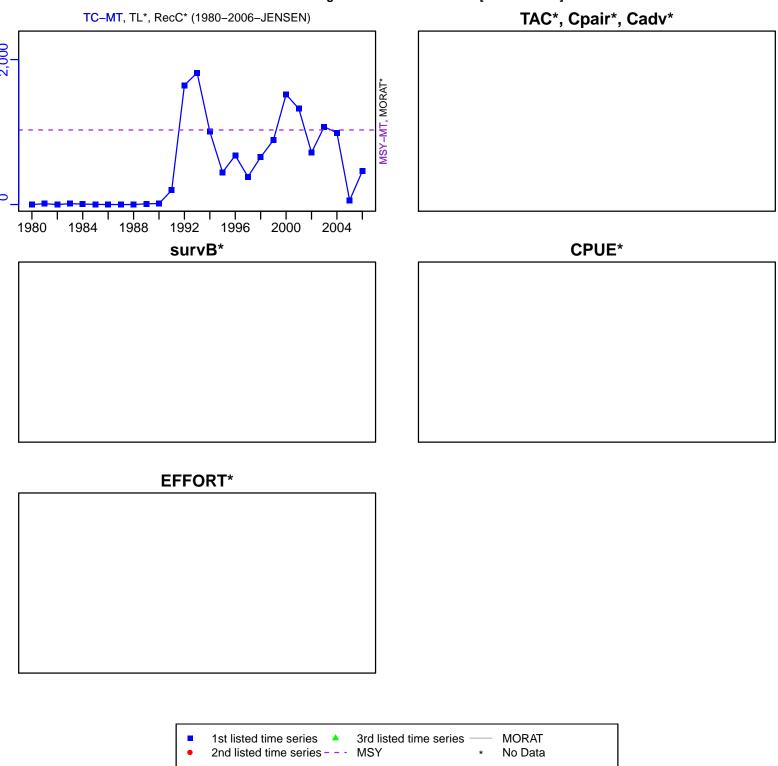
Metadata		
Scientific Name	Genypterus blacodes	
Current Assess ID	NZMFishMIDDEPTHSWG-NZLINGLIN6b-1980-2006-JENSEN	
Area New Zealand Areas LIN 6b		
Management Authority Ministry of Fisheries, New Zealand national management		
Assessor	Middle Depths Working Group	
Asmts in RAM	2006	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2006	3014	
Fmsy	Fmsy-1/yr	2006	0.31	
ERmsy	ERmsy-ratio	2006	0.19	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2006	12,363	
MSY	MSY-MT	2006	894	
M	M-1/yr	2006	0.18	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	9520	-	3
SSB	SSB-MT	2006	6590	-	-
TN	-	-	-	-	-
R	R-E00	2006	888,000	-	3
F	F-1/yr	2006	0	-	-
ER	ER-ratio	2006	0	-	-
TC	TC-MT	2006	400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2006	2.19		
F/Fmsy	F-1/yr/Fmsy-1/yr	2006	0.11		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



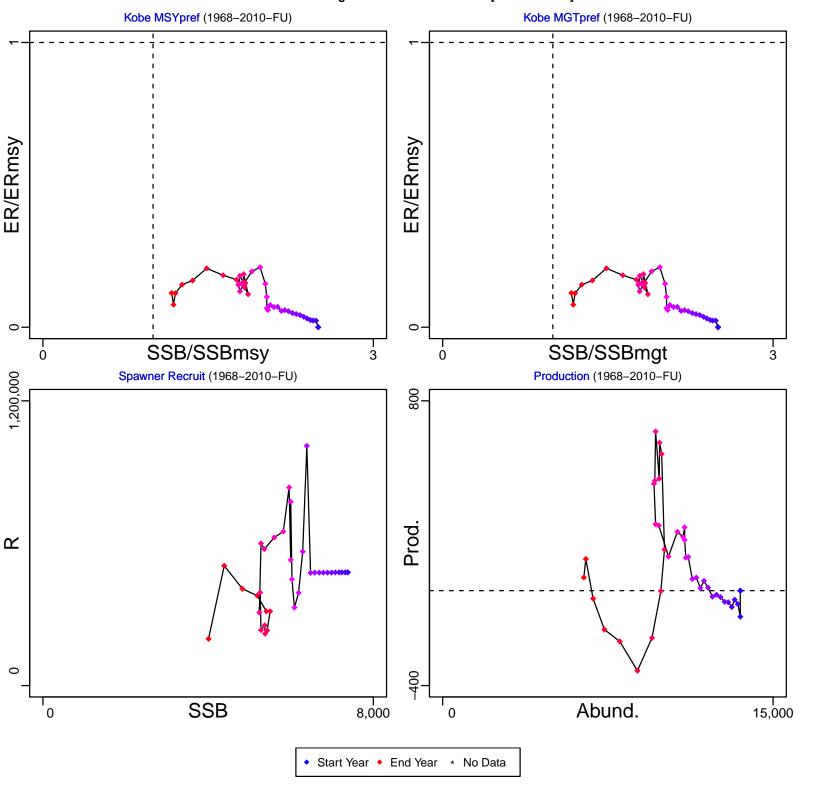


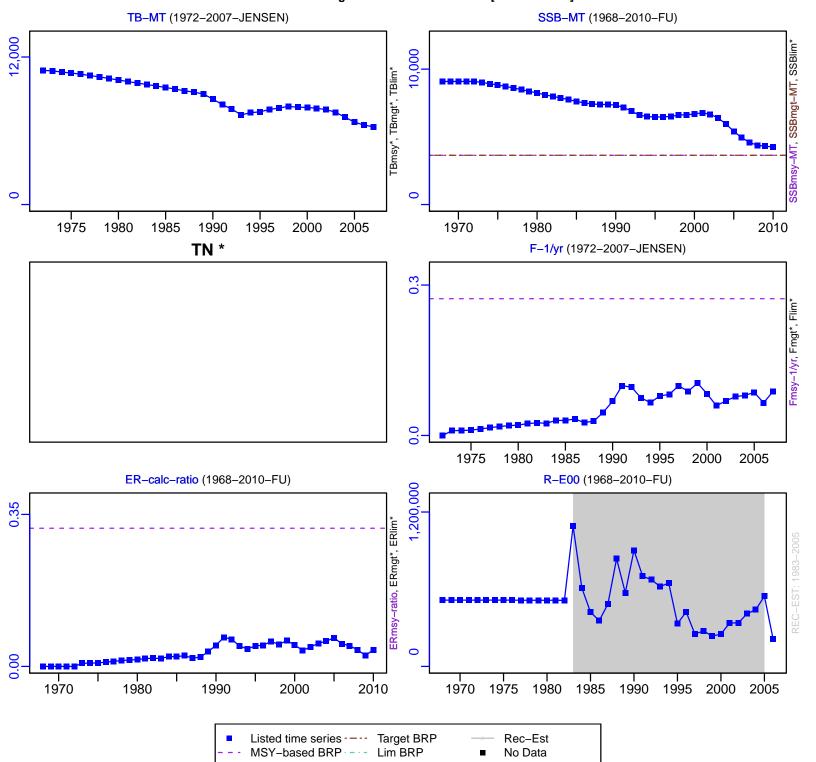


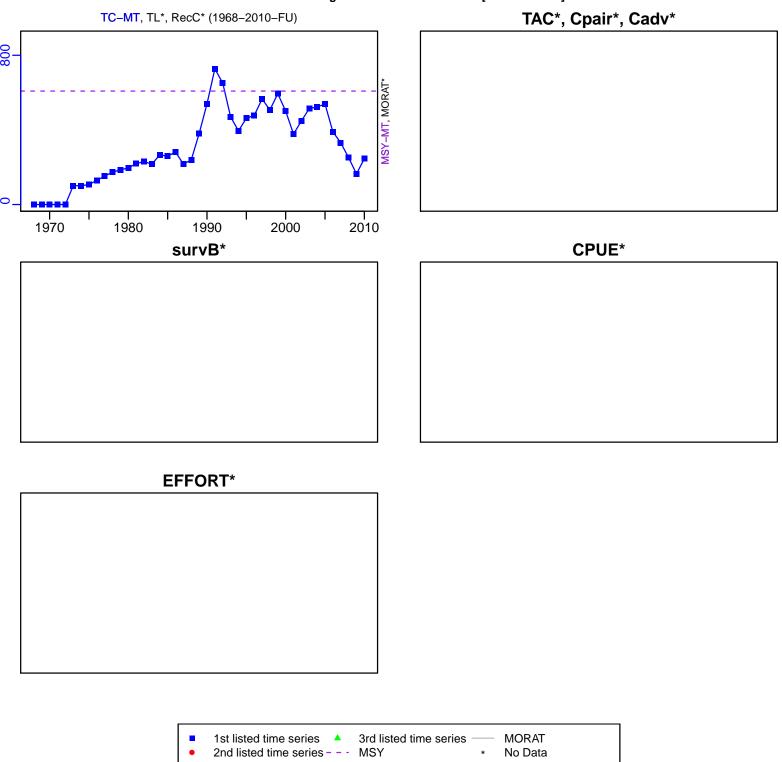
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID NZMFishMIDDEPTHSWG-NZLINGLIN72-1968-2010-FU			
Area New Zealand Areas LIN 72			
Management Authority Ministry of Fisheries, New Zealand national manageme			
Assessor Middle Depths Working Group			
Asmts in RAM	2010, 2007		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2010	2952
Fmsy	Fmsy-1/yr	2007	0.25
ERmsy	ERmsy-ratio	2010	0.29
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2010	2952
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2010	7380
MSY	MSY-MT	2010	544
М	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	5590	-	3
SSB	SSB-MT	2010	3450	Both	3 to 25
TN	-	-	-	-	-
R	R-E00	2010	197,000	Both	-
F	F-1/yr	2007	0	-	-
ER	ER-calc-ratio	2010	0	-	-
TC	TC-MT	2010	220		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	1.17		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.32		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2010	0.12		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2010	1.17		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



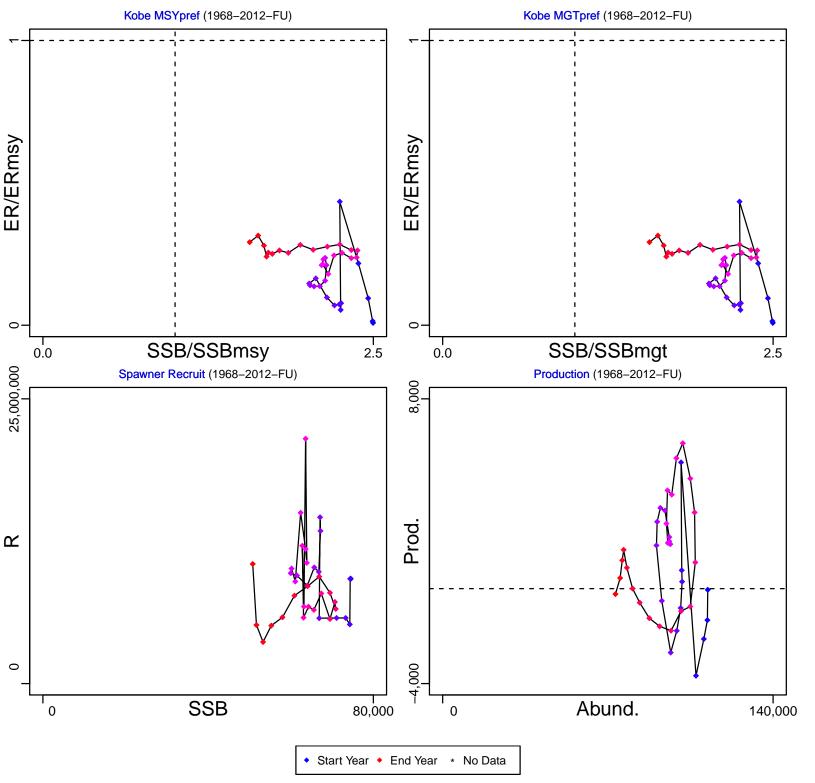


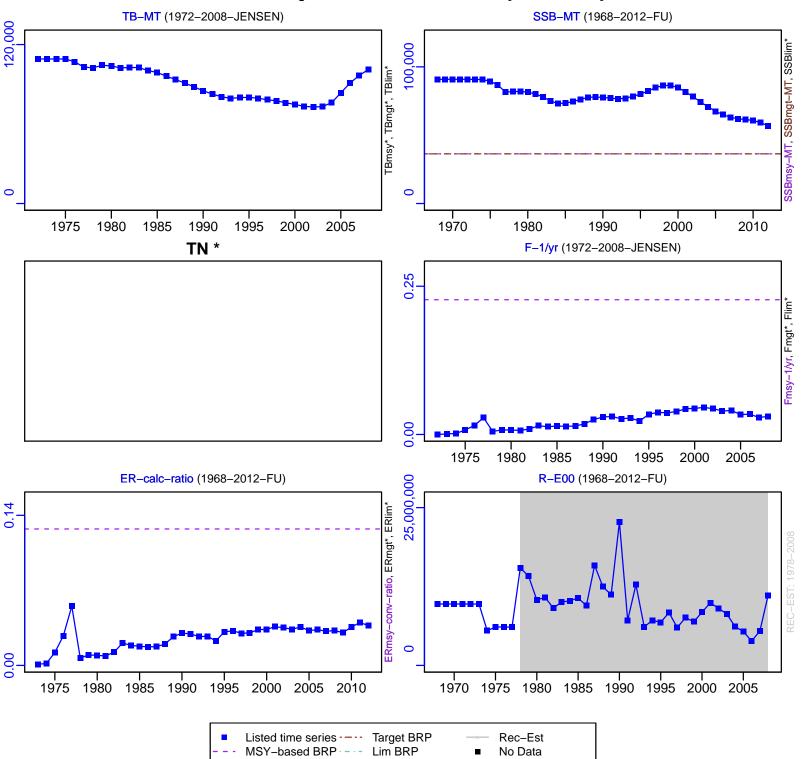


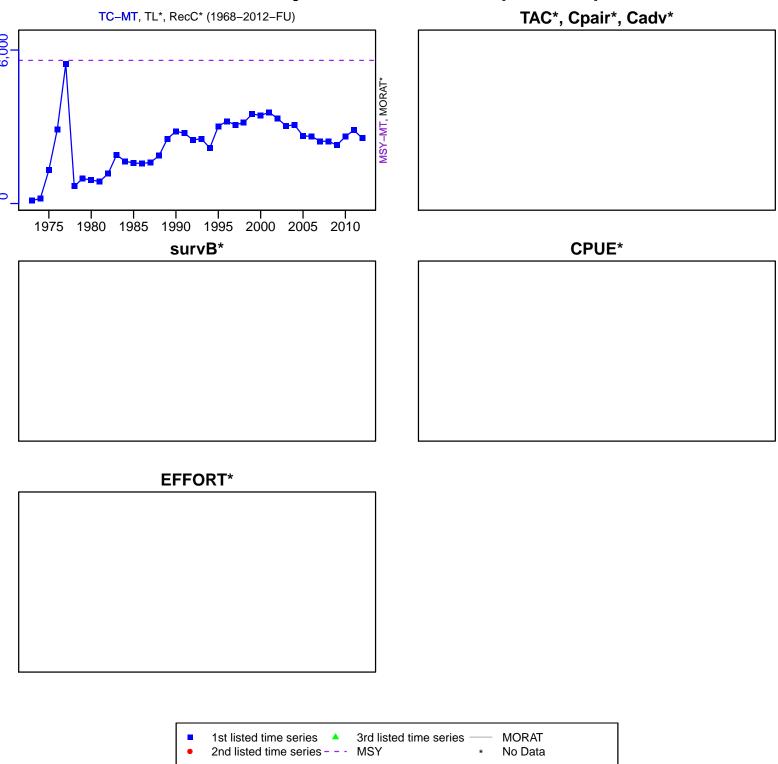
Metadata			
Scientific Name Genypterus blacodes			
Current Assess ID NZMFishMIDDEPTHSWG-NZLINGLIN7WC-1968-2012-FU			
Area New Zealand Areas LIN 7WC-WCSI			
Management Authority Ministry of Fisheries, New Zealand national management			
Assessor	Middle Depths Working Group		
Asmts in RAM	2012, 2008		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2012	29,785
Fmsy	Fmsy-1/yr	2008	0.2
ERmsy	ERmsy-ratio	2008	0.14
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	29,785
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2012	74,463
MSY	MSY-MT	2012	5150
M	M-1/yr	2012	0.22
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	96,400	-	3
SSB	SSB-MT	2012	46,600	-	3 to 25
TN	-	-	-	-	-
R	R-E00	2012	10,500,000	Both	-
F	F-1/yr	2008	0	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	2350		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.56		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.13		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.56		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





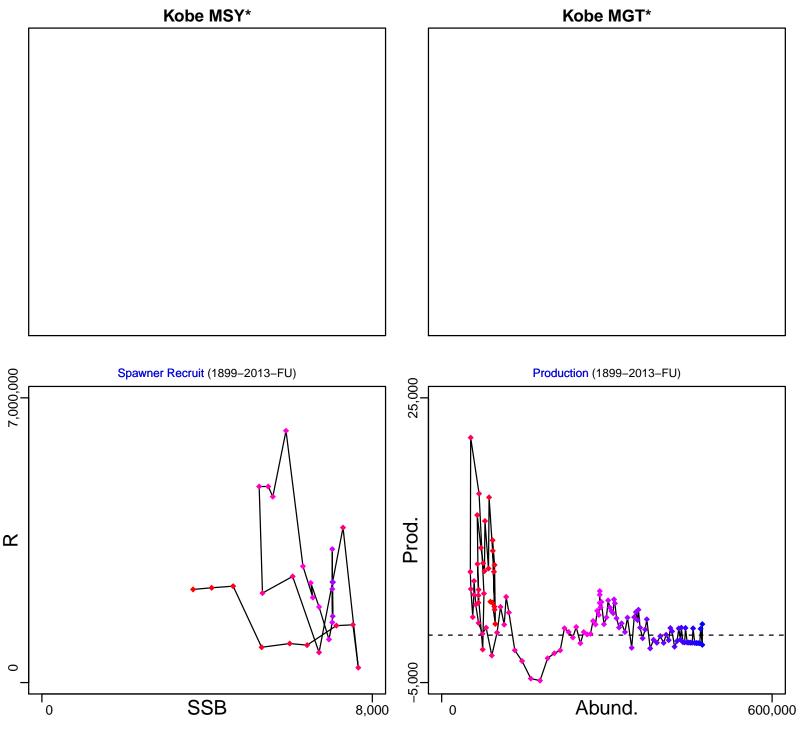


# New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf [NZSNAPNZ1BOP-HAGU]

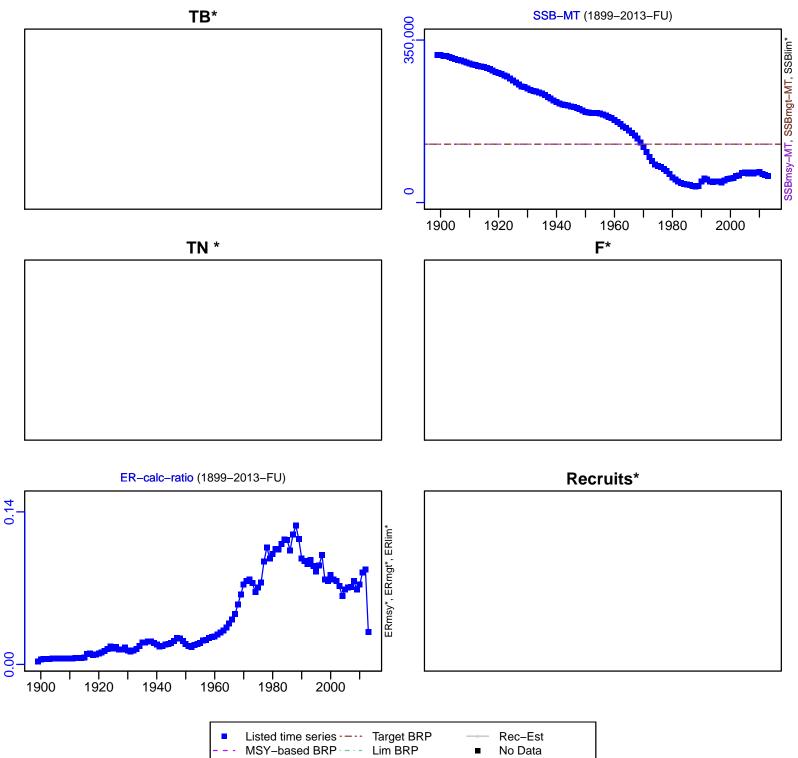
Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID	NIWA-NZSNAPNZ1BOP-HAGU-1899-2013-FU		
Area	New Zealand SNA 1 Bay of Plenty and Hauraki Gulf		
Management Authority			
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	122,479	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2013	122,479	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2013	306,198	
MSY	-	-	-	
M	M-1/yr	2013	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

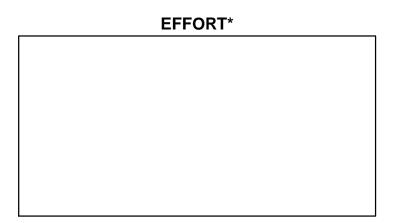


Start Year → End Year → No Data



10,1=,11000	in to , opan , oaar
	J

survB\* CPUE\*



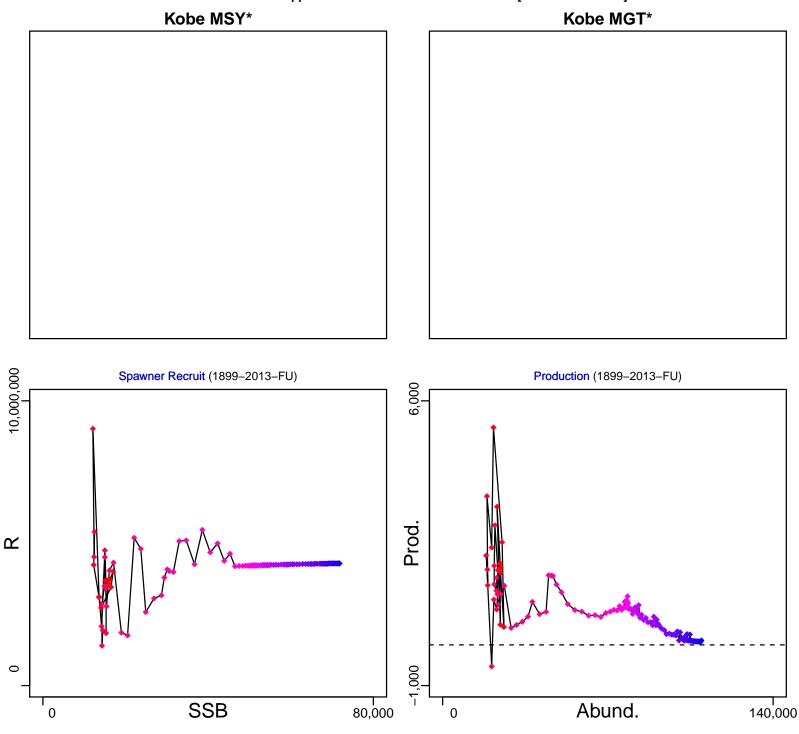
1st listed time series 3rd listed time series — **MORAT** 2nd listed time series - - - MSY No Data

# New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID	NIWA-NZSNAPNZ1ENLD-1899-2013-FU		
Area	New Zealand SNA 1 east Northland		
Management Authority Ministry of Fisheries, New Zealand national management			
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013		

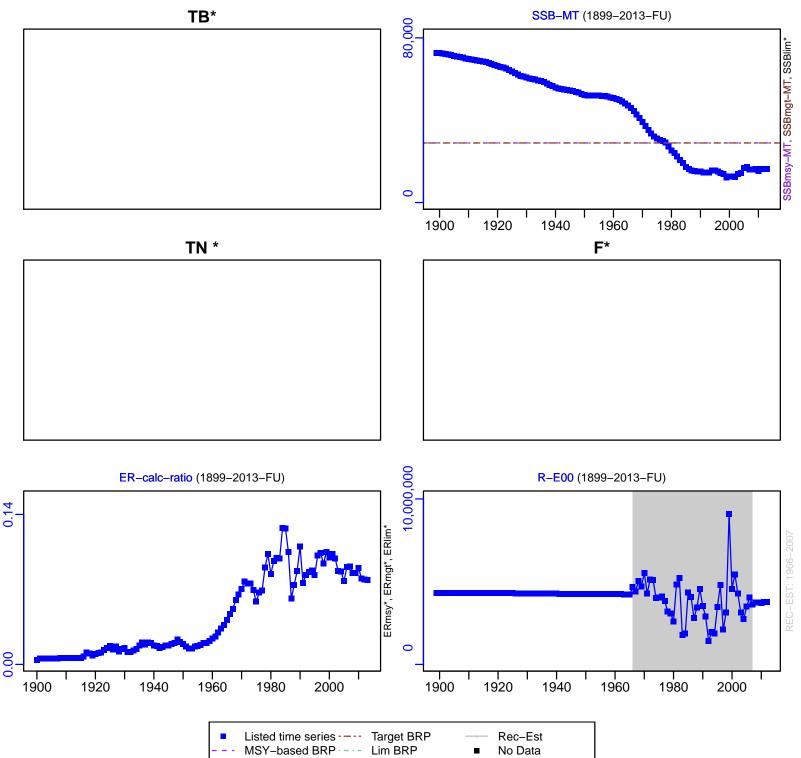
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	28,570	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2013	28,570	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2013	71,425	
MSY	-	-	-	
M	M-1/yr	2013	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

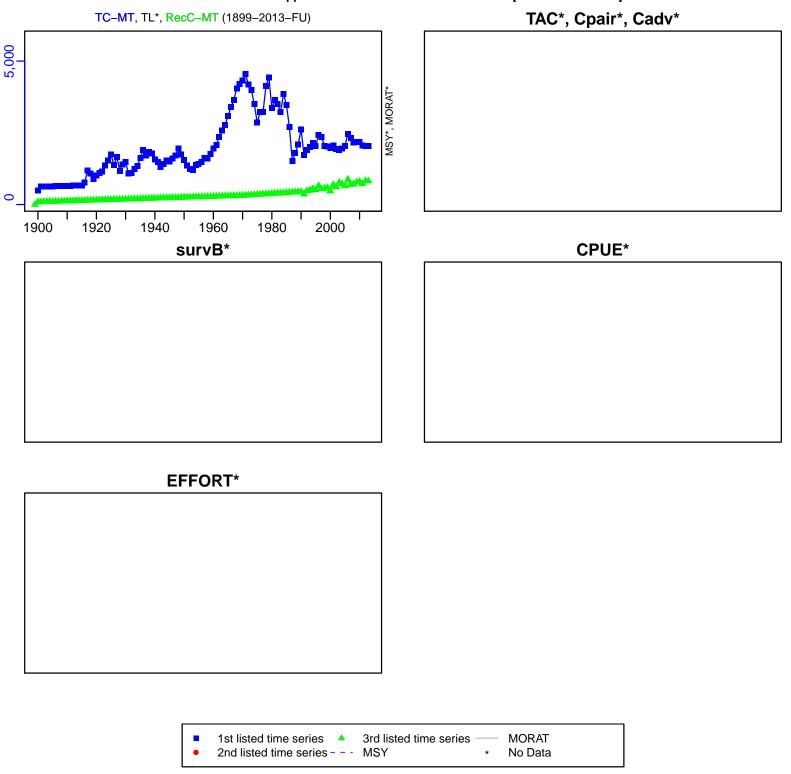
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2013	16,200	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	3,730,000	Both	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	TC-MT	2013	1750		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.57		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.57		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data

#### New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]



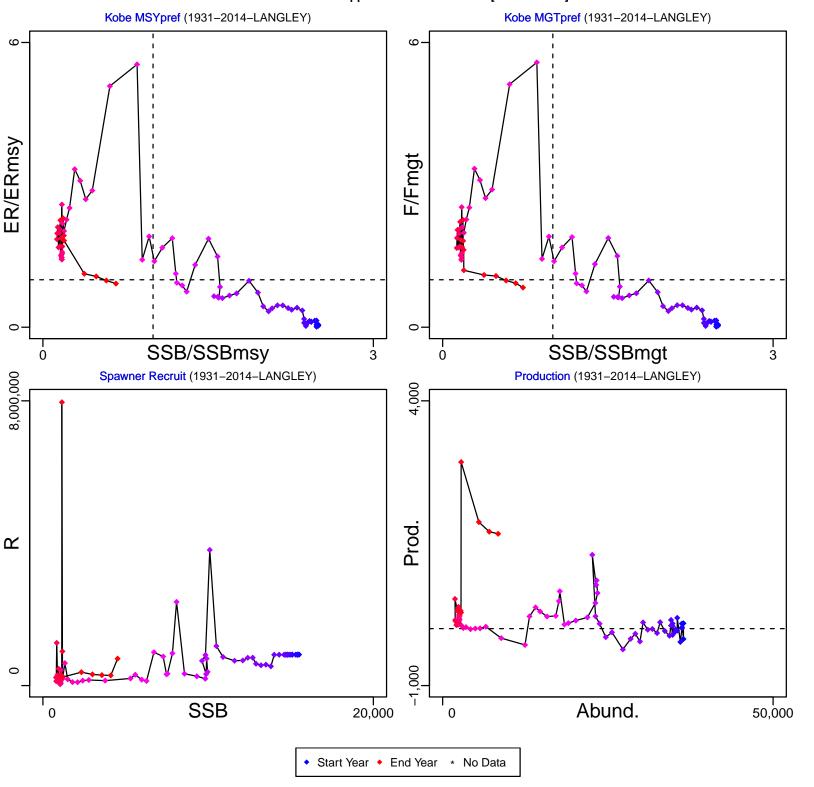


# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

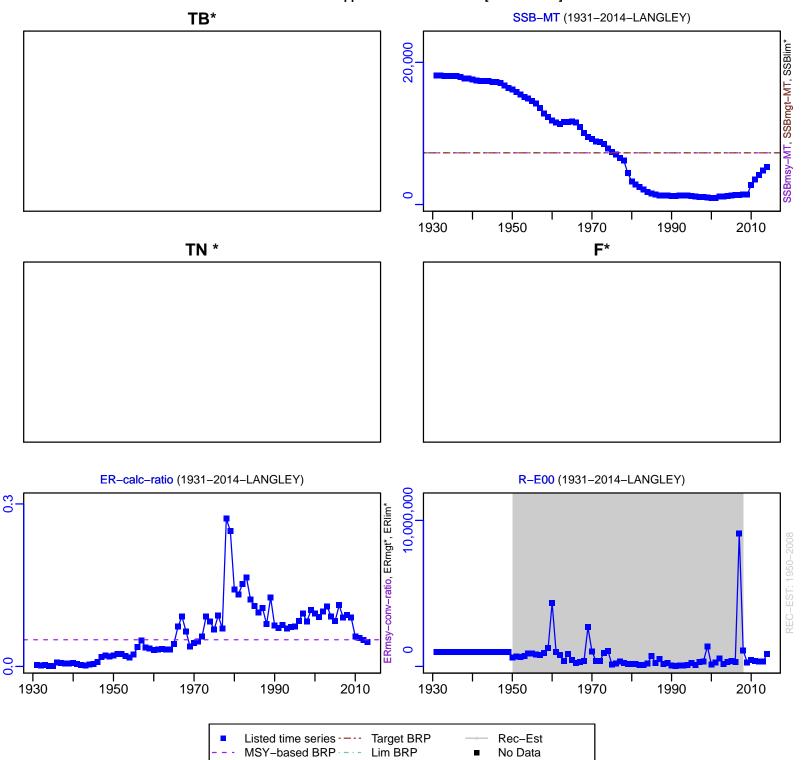
Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID NZMFishINSHOREWG-NZSNAPNZ7-1931-2014-LANGLEY			
Area New Zealand SNA 7			
Management Authority Ministry of Fisheries, New Zealand national management			
Assessor	Inshore Working Group		
Asmts in RAM	2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	6199	
Fmsy	-	-	-	
ERmsy	ERmsy-conv-ratio	2014	0.05	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	6199	
Fmgt	Fmgt-1/yr	2014	0.06	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	15,497	
MSY	MSY-MT	2014	699	
M	M-1/yr	2014	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

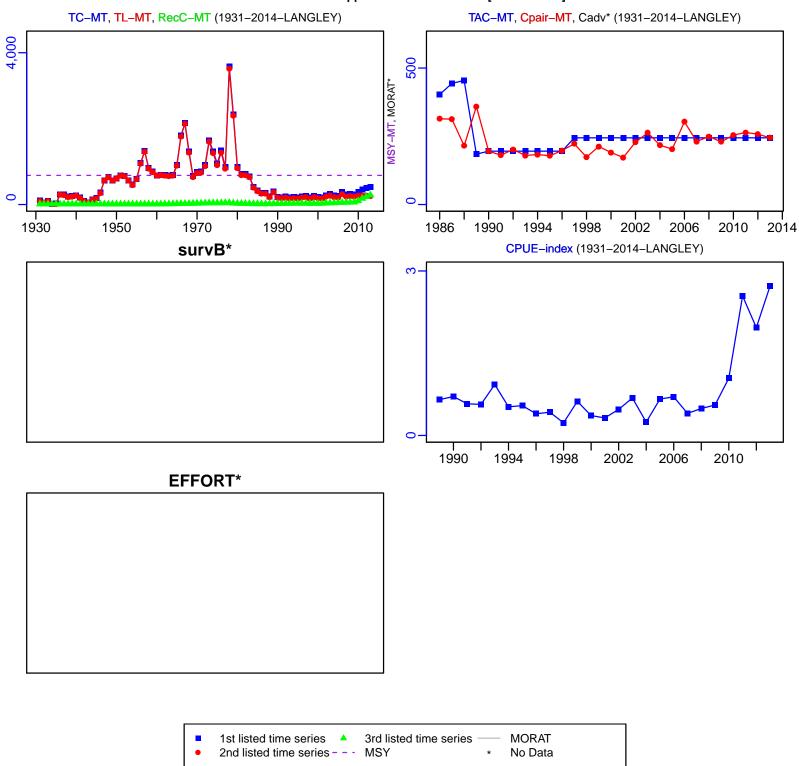
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	4520	Females	3 to 30+
TN	-	-	-	-	-
R	R-E00	2014	757,000	Both	0
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	426		
TL	TL-MT	2014	200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.73		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2014	0.92		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.73		
F/Fmgt	FdivFmgt-dimensionless	2014	0.84		
ER/ERmgt	-	-	-		



## New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]



### New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

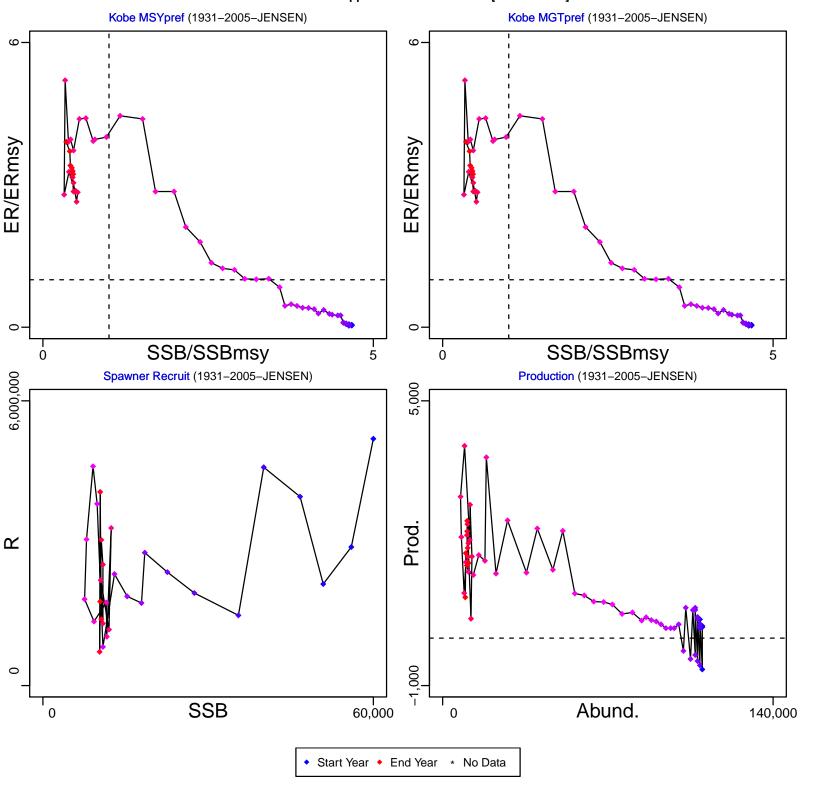


## New Zealand snapper New Zealand Area 8 [NZSNAPNZ8]

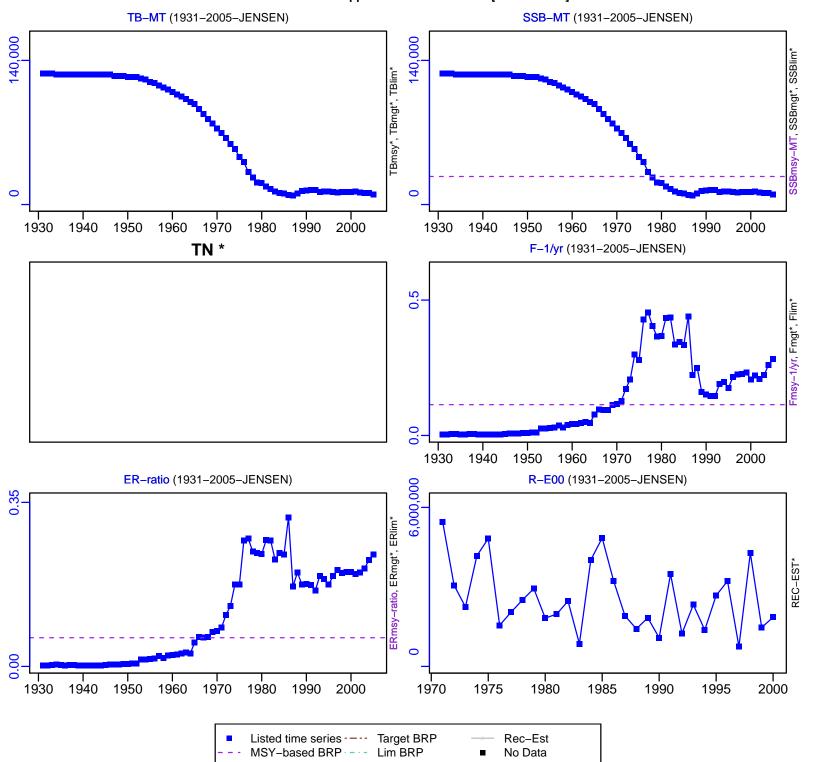
Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID	NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN		
Area New Zealand Area 8 (Auckland and Central West)			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Inshore Working Group		
Asmts in RAM	2005		

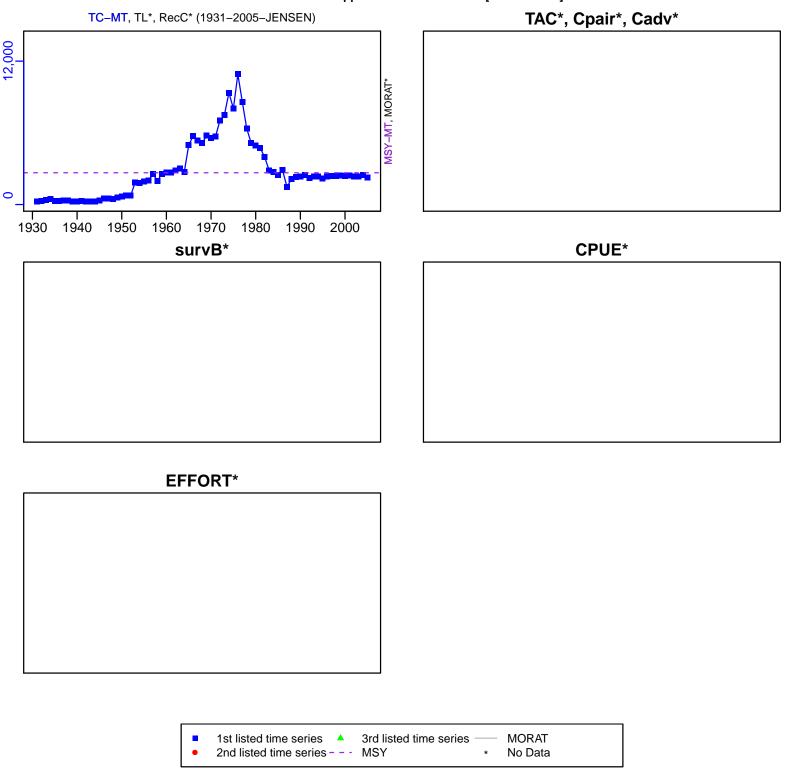
	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2005	23,536		
Fmsy	Fmsy-1/yr	2005	0.09		
ERmsy	ERmsy-ratio	2005	0.06		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2005	120,884		
MSY	MSY-MT	2005	2285		
M	M-1/yr	2005	0.05		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	8310	-	3
SSB	SSB-MT	2005	8310	-	-
TN	-	-	-	-	-
R	R-E00	2005	1,770,000	-	3
F	F-1/yr	2005	0	-	-
ER	ER-ratio	2005	0	-	-
TC	TC-MT	2005	1950		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2005	0.35		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	2.49		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	3.91		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### New Zealand snapper New Zealand Area 8 [NZSNAPNZ8]

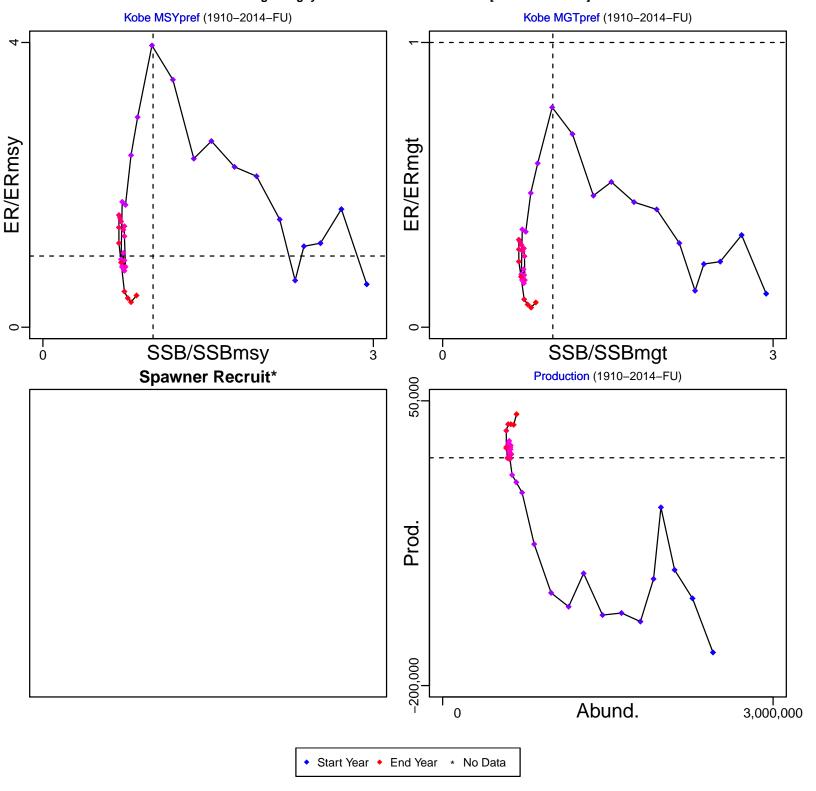


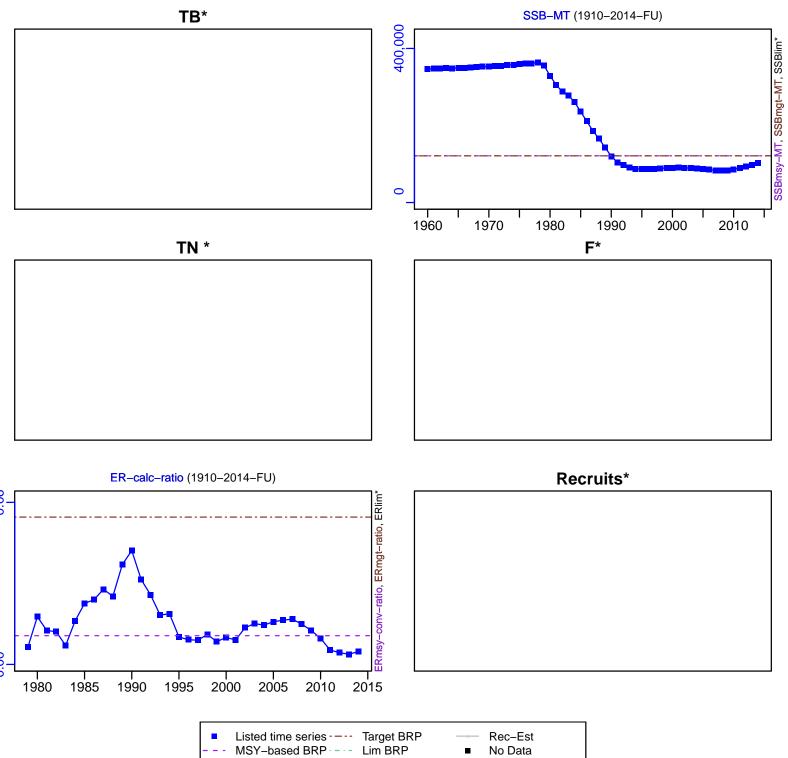


Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYESCR-1910-2014-FU		
Area East and South Chatham Rise			
Management Authority Ministry of Fisheries, New Zealand national managem			
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014		

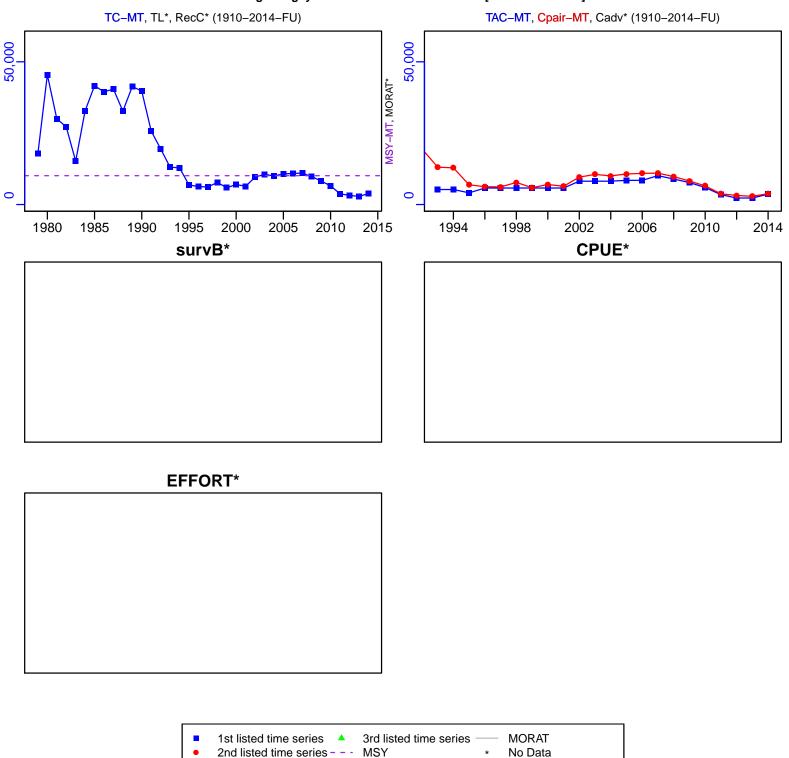
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	112,000
Fmsy	-	-	-
ERmsy	ERmsy-conv-ratio	2014	0.01
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	112,000
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.05
TB0	-	-	-
SSB0	SSB0-MT	2014	320,000
MSY	MSY-MT	2014	8640
М	M-1/yr	2014	0.04
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	94,700	-	40+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	3260		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	0.85		
F/Fmsy	-	-	-		
ER/ERmsy	ER-calc-ratio/ERmsy-conv-ratio	2014	0.45		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.85		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





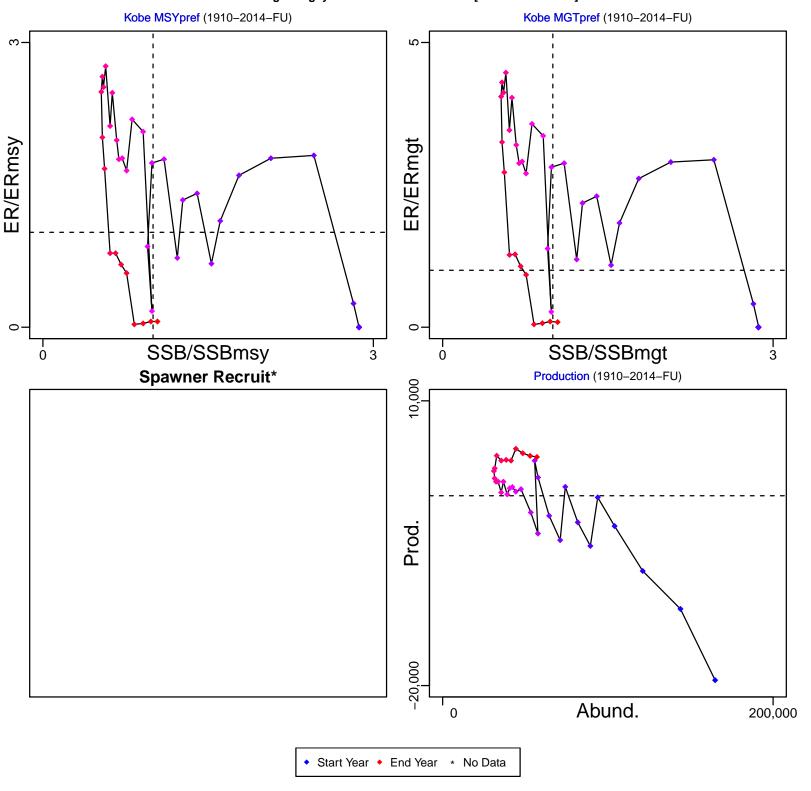
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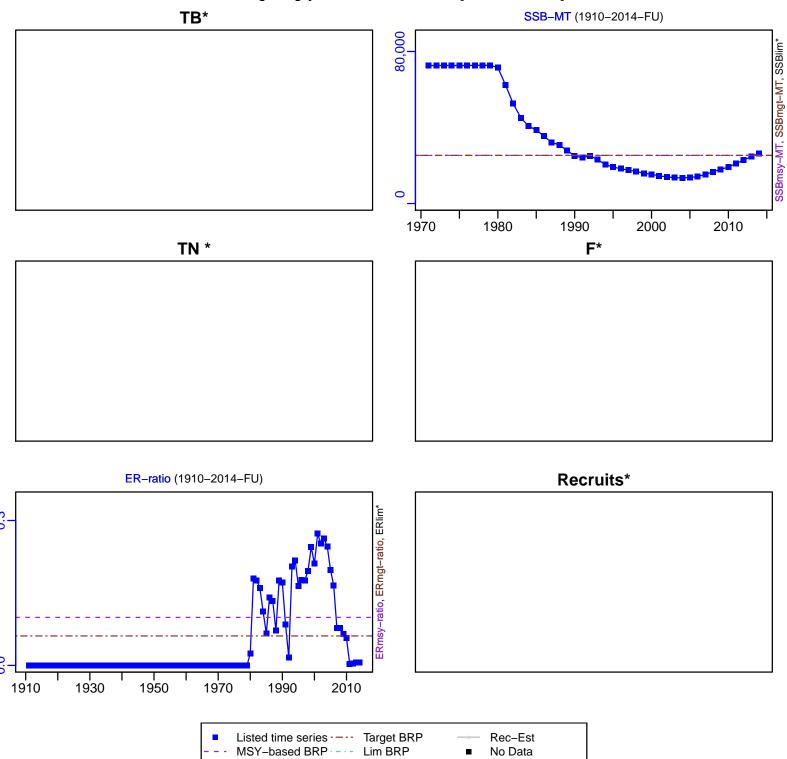


Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYNWCR-1910-2014-FU		
Area Northwest Chatham Rise			
Management Authority Ministry of Fisheries, New Zealand national managem			
Assessor National Institute of Water and Atmospheric Research			
Asmts in RAM	2014		

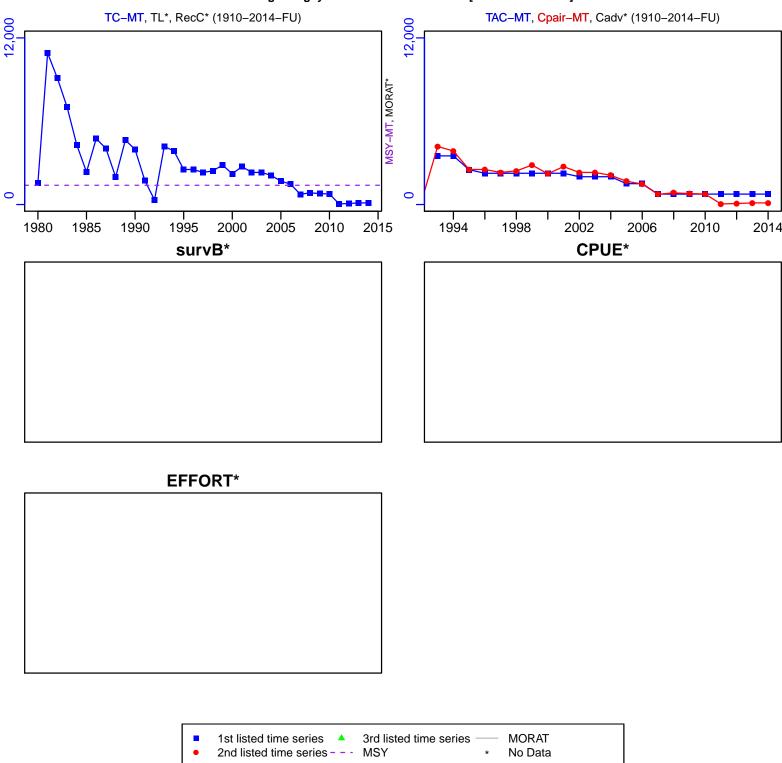
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	23,100	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2014	0.09	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	23,100	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.05	
TB0	-	-	-	
SSB0	SSB0-MT	2014	66,000	
MSY	MSY-MT	2014	1386	
М	M-1/yr	2014	0.04	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	24,100	-	40+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0	-	-
TC	TC-MT	2014	116		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.04		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.04		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





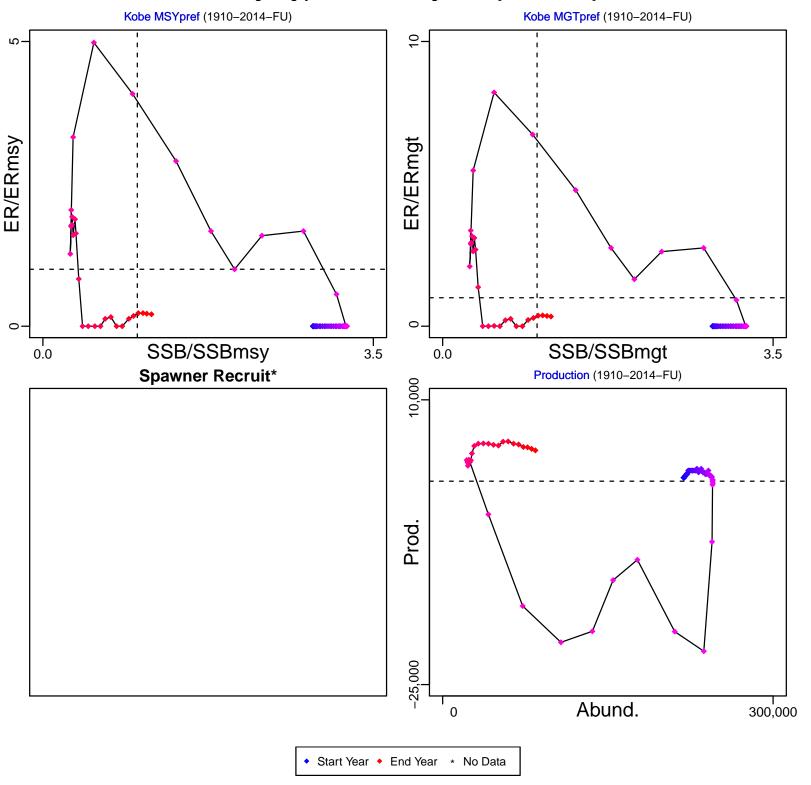
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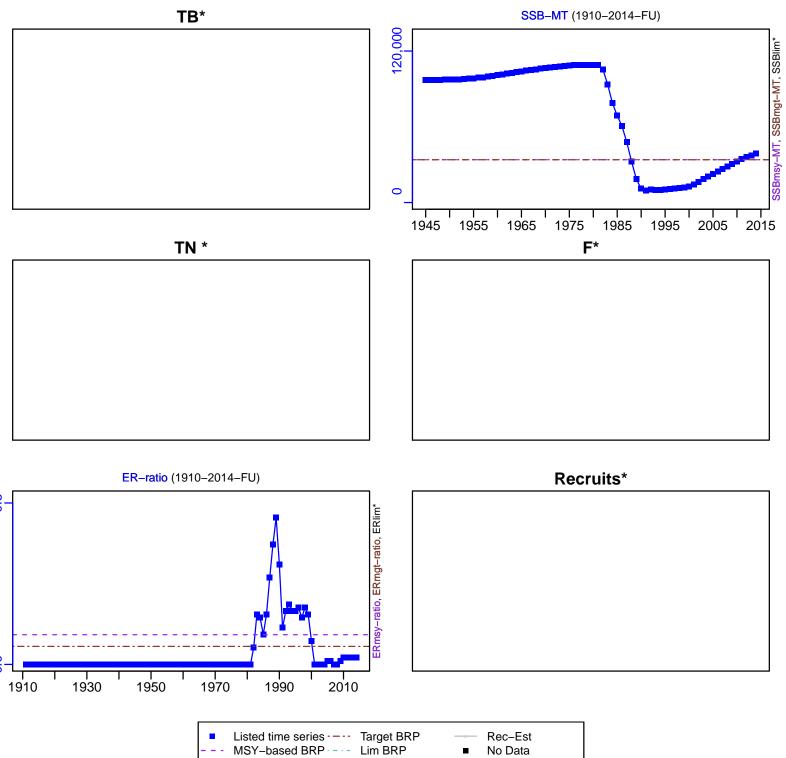


Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYNZ7A-1910-2014-FU		
Area New Zealand Challenger Plateau			
Management Authority Ministry of Fisheries, New Zealand national manag			
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014		

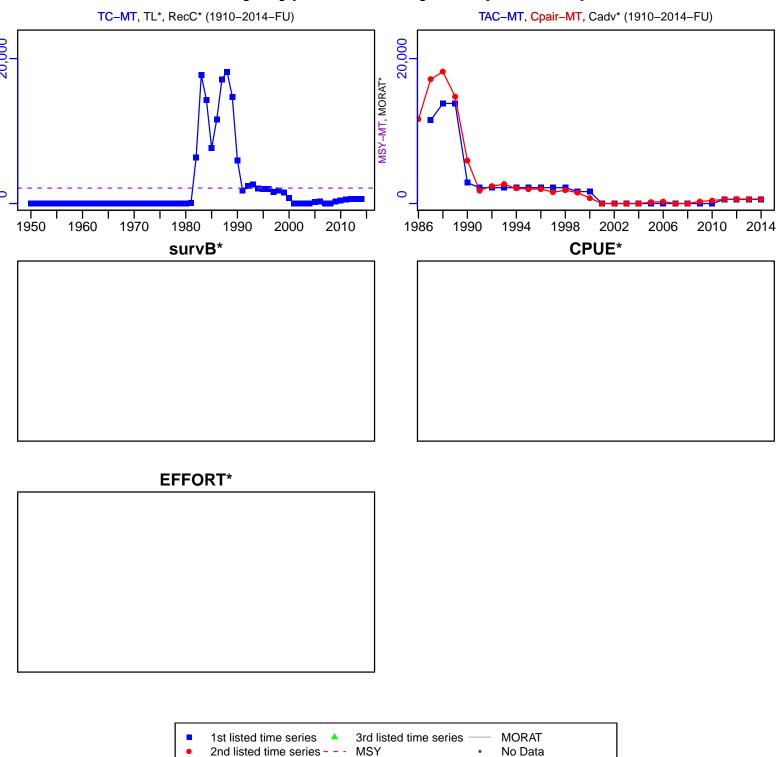
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	30,800	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2014	0.09	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	30,800	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.05	
TB0	-	-	-	
SSB0	SSB0-MT	2014	88,000	
MSY	MSY-MT	2014	1848	
M	M-1/yr	2014	0.04	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	35,300	-	40+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	539		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	1.15		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.21		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.15		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





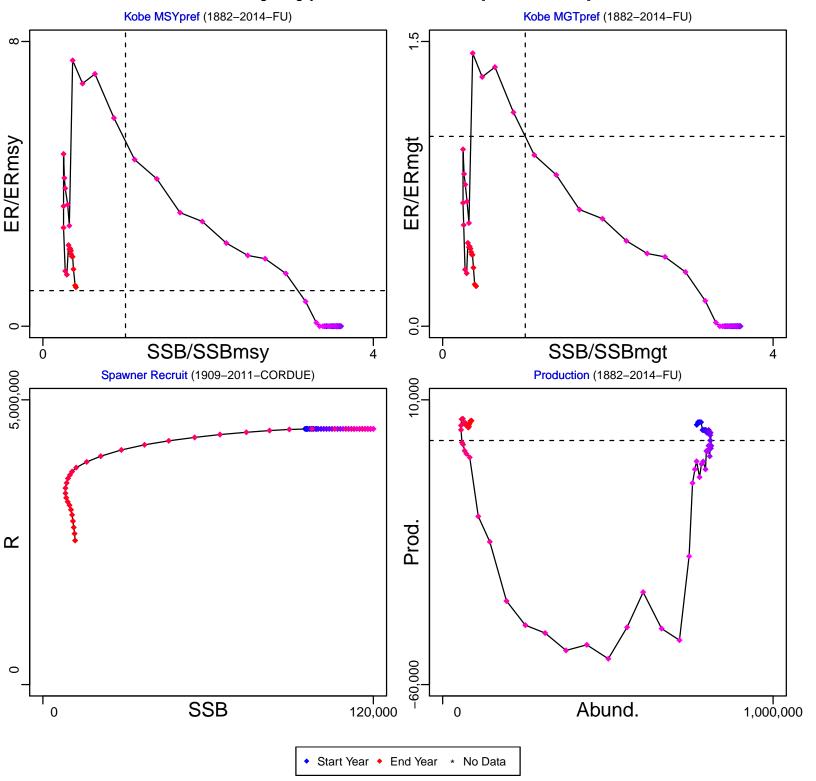
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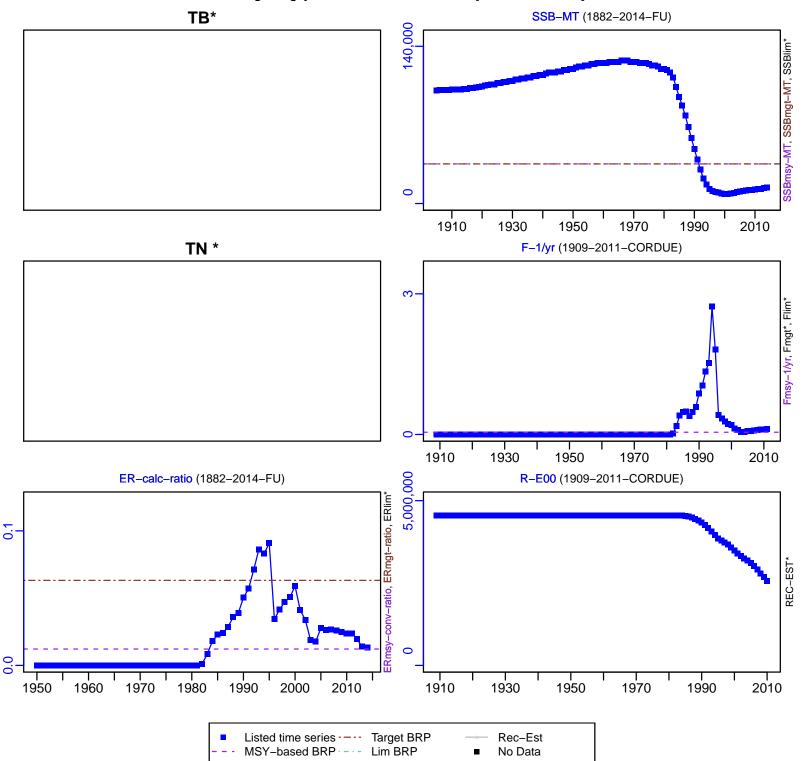


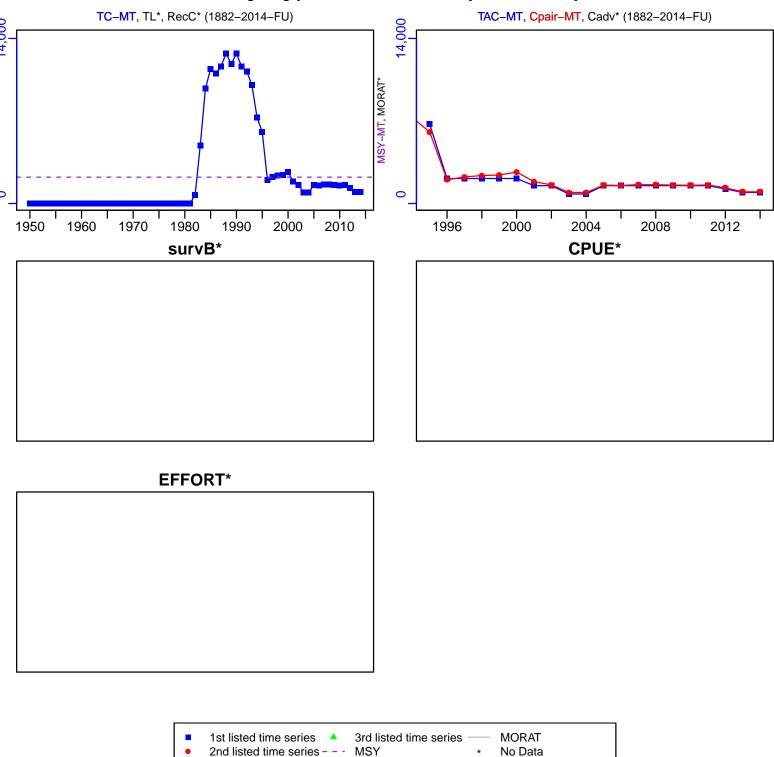
Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYNZMEC-1882-2014-FU		
Area	New Zealand Mid East Coast		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	33,250	
Fmsy	Fmsy-1/yr	2011	0.04	
ERmsy	ERmsy-ratio	2011	0.03	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	33,250	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.05	
TB0	-	-	-	
SSB0	SSB0-MT	2014	95,000	
MSY	MSY-MT	2014	2214	
M	M-1/yr	2014	0.04	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	13,500	-	-
TN	-	-	-	-	-
R	R-E00	2011	2,530,000	-	1
F	F-1/yr	2011	0	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	982		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2014	0.4		
F/Fmsy	FdivFmsy-dimensionless	2011	2.5		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	2.56		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.4		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



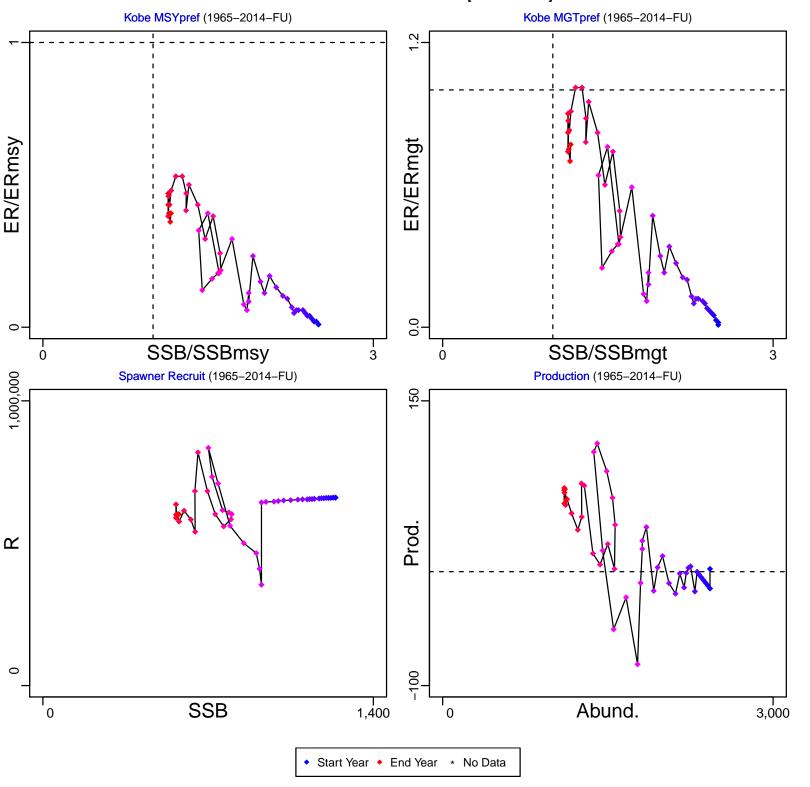


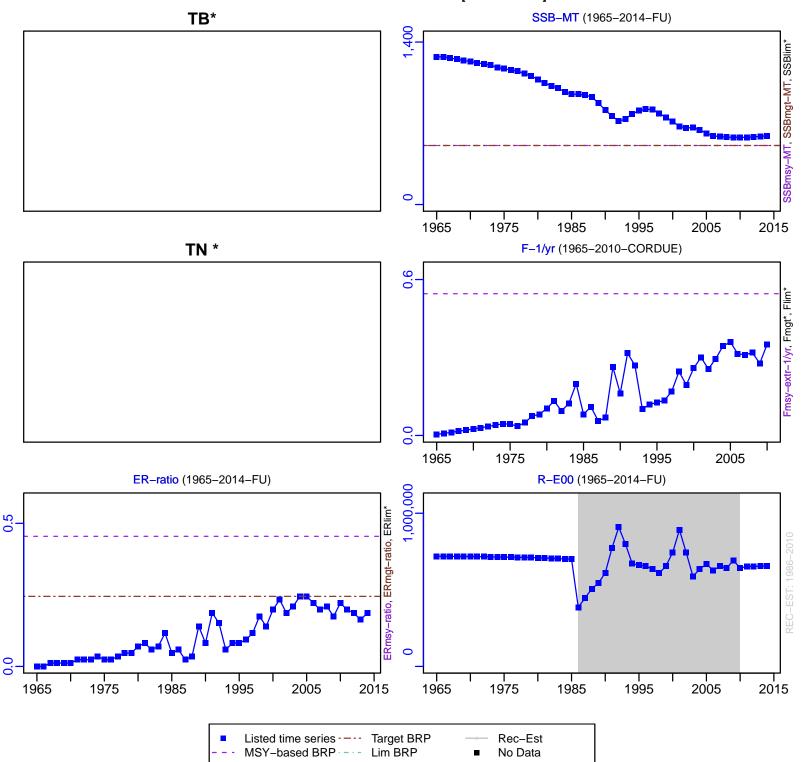


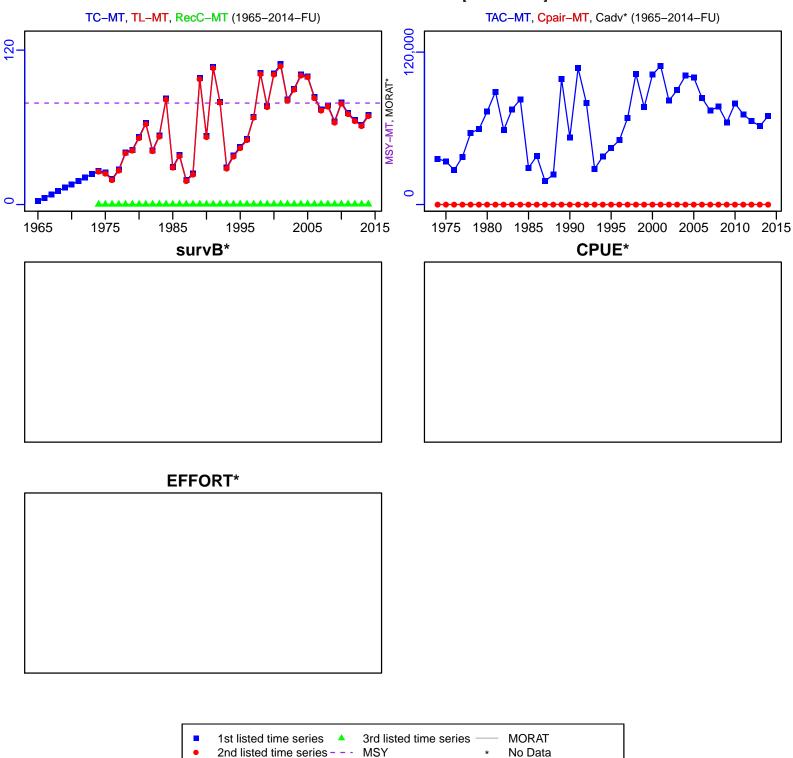
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUANPAU5A-1965-2014-FU		
Area	NZ Area North PAUA 5A		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2014		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2010	124		
SSBmsy	SSBmsy-MT	2014	496		
Fmsy	Fmsy-extr-1/yr	2010	0.51		
ERmsy	ERmsy-ratio	2014	0.39		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2014	496		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2014	0.21		
TB0	-	-	-		
SSB0	SSB0-MT	2014	1239		
MSY	MSY-MT	2014	73		
М	M-1/yr	2014	0.15		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	576	-	-
TN	-	-	-	-	-
R	R-E00	2014	602,000	Both	-
F	F-1/yr	2010	0	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	64.4		
TL	TL-MT	2014	63.6		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.16		
F/Fmsy	FdivFmsy-dimensionless	2010	0.64		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.4		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.16		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





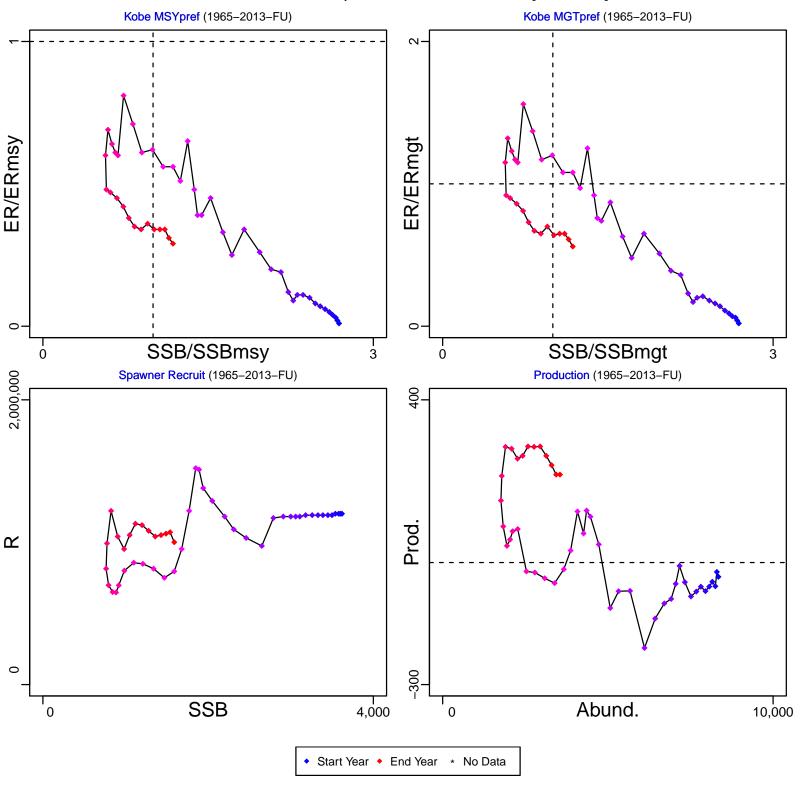


## New Zealand abalone species New Zealand Area PAU 5B [PAUAPAU5B]

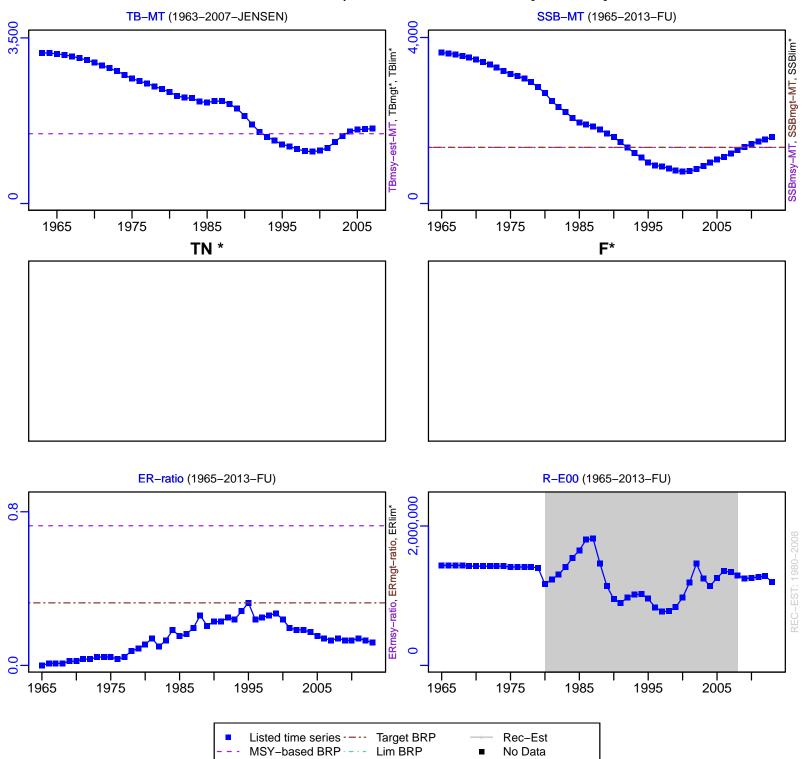
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5B-1965-2013-FU		
Area New Zealand Area PAU 5B (Stewart Island)			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Shellfish Working Group		
Asmts in RAM	2007, 2013		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-est-MT	2007	1465
SSBmsy	SSBmsy-MT	2013	1346
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2013	0.67
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	1346
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2013	0.3
TB0	-	-	-
SSB0	SSB0-MT	2013	3366
MSY	MSY-MT	2013	190
M	M-1/yr	2013	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

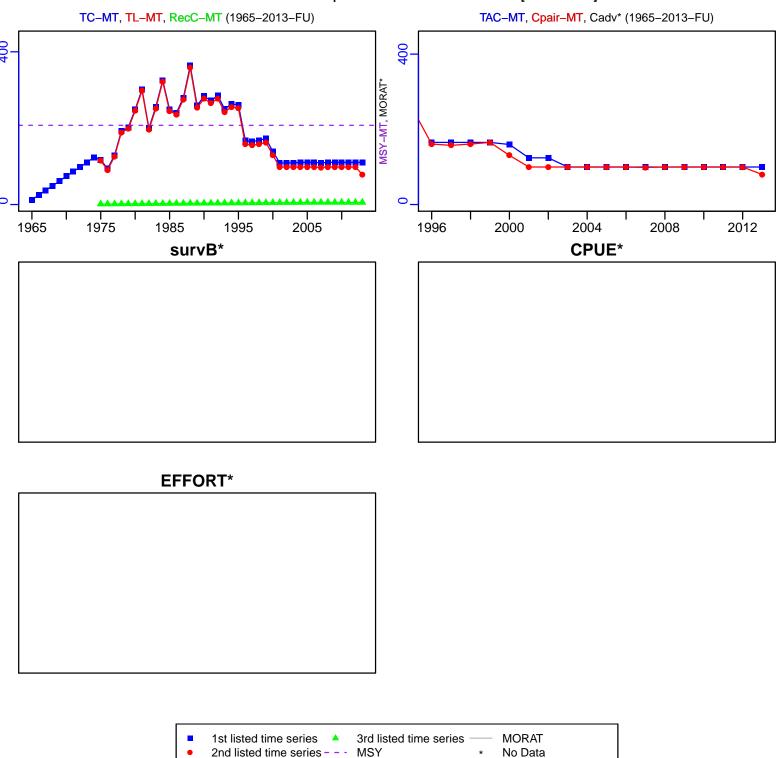
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	1570	-	-
SSB	SSB-MT	2013	1590	Both	-
TN	-	-	-	-	-
R	R-E00	2013	$1 \times 10^6$	Both	-
F	-	-	-	-	-
ER	ER-ratio	2013	0	Both	-
TC	TC-MT	2013	101		
TL	TL-MT	2013	72		
TB/TBmsy	TB-MT/TBmsy-est-MT	2007	1.07		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.18		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2013	0.29		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.18		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-	]	



#### New Zealand abalone species New Zealand Area PAU 5B [PAUAPAU5B]



## New Zealand abalone species New Zealand Area PAU 5B [PAUAPAU5B]

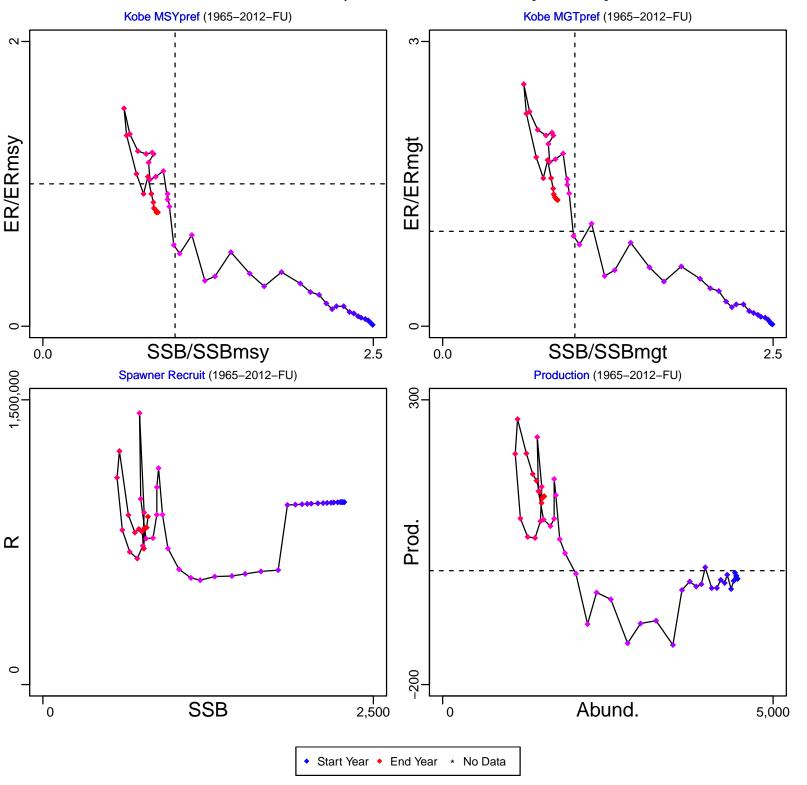


## New Zealand abalone species New Zealand Area PAU 5D [PAUAPAU5D]

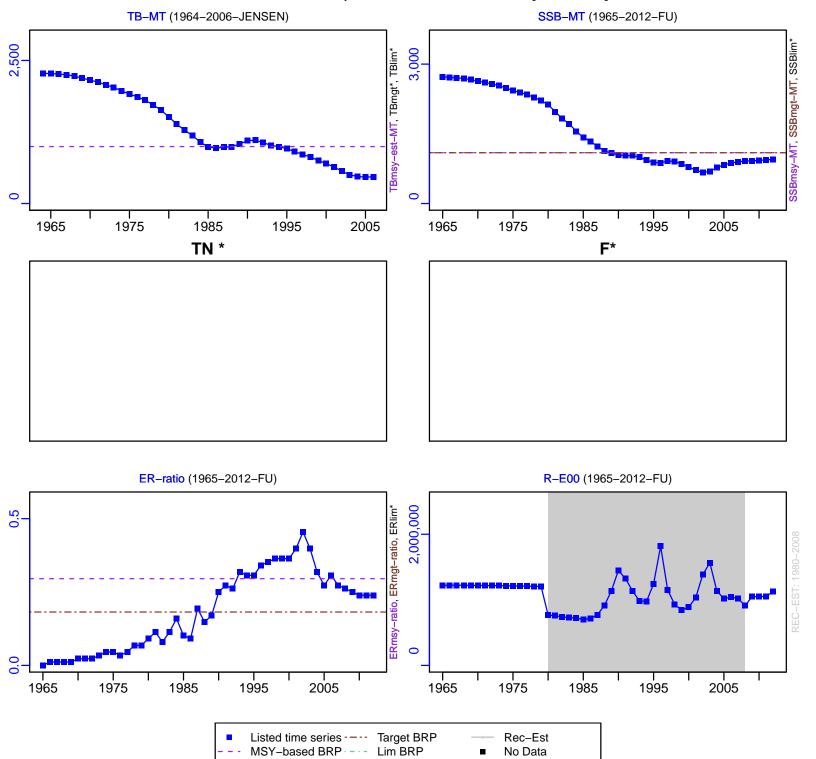
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5D-1965-2012-FU		
Area	New Zealand Area PAU 5D (Otago)		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Shellfish Working Group		
Asmts in RAM	2006, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2006	854	
SSBmsy	SSBmsy-MT	2012	914	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.26	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	914	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2012	0.16	
TB0	-	-	-	
SSB0	SSB0-MT	2012	2285	
MSY	MSY-MT	2012	121	
M	M-1/yr	2012	0.15	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

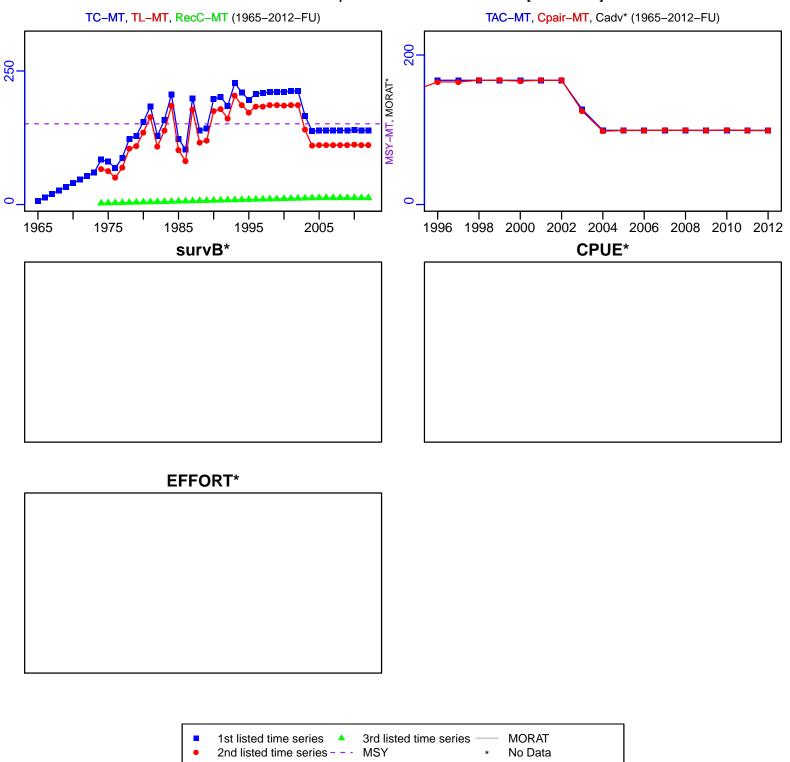
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	400	-	-
SSB	SSB-MT	2012	795	-	-
TN	-	-	-	-	-
R	R-E00	2012	884,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2012	0	Both	-
TC	TC-MT	2012	111		
TL	TL-MT	2012	88.7		
TB/TBmsy	TB-MT/TBmsy-est-MT	2006	0.47	]	
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	0.87		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.8		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	0.87		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### New Zealand abalone species New Zealand Area PAU 5D [PAUAPAU5D]



### New Zealand abalone species New Zealand Area PAU 5D [PAUAPAU5D]



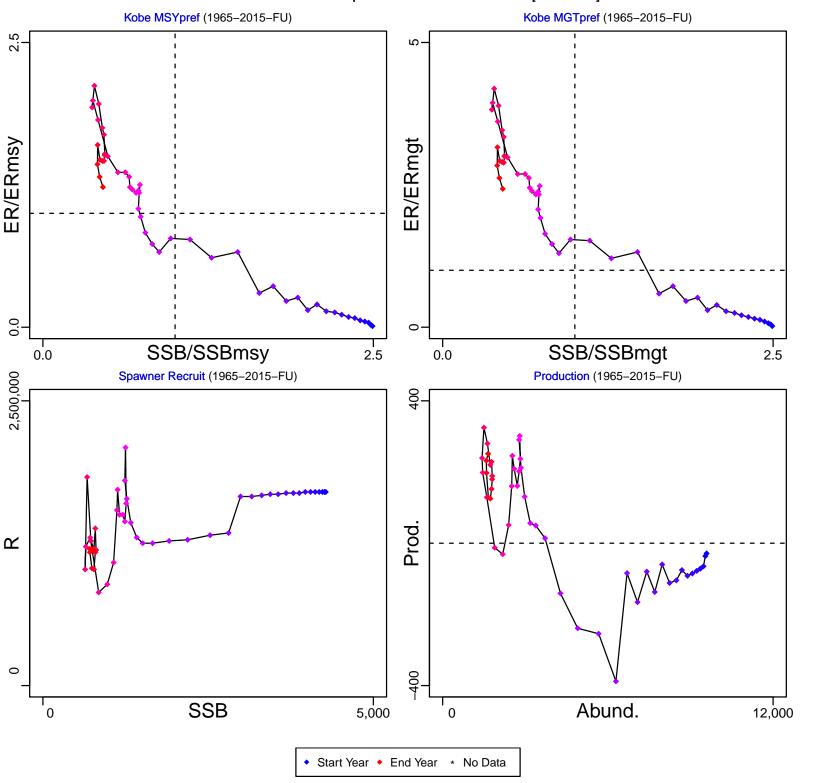
## New Zealand abalone species New Zealand Area PAU 7 [PAUAPAU7]

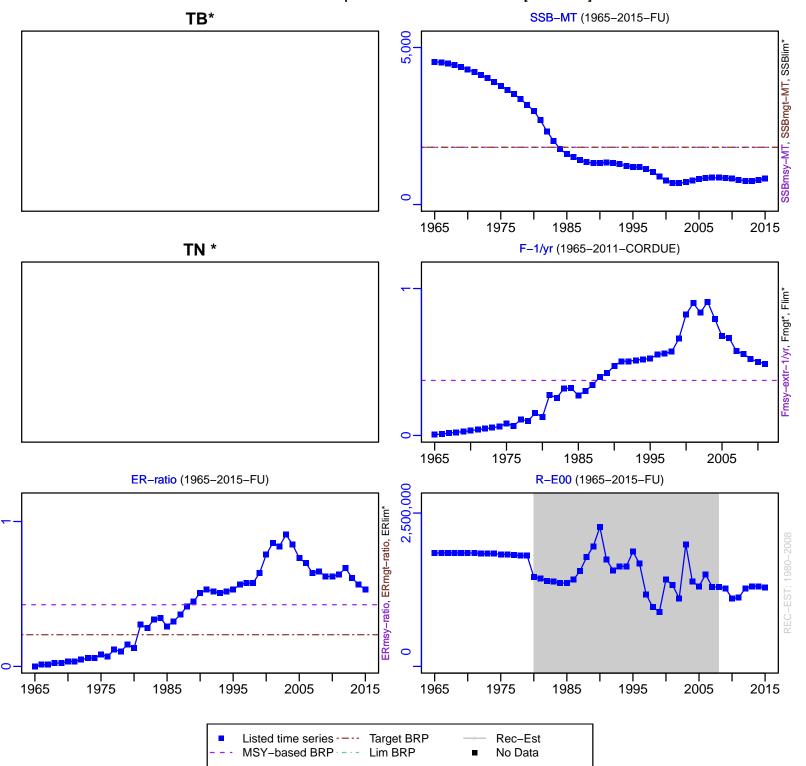
Metadata				
Scientific Name	Haliotis iris			
Current Assess ID	NIWA-PAUAPAU7-1965-2015-FU			
Area	New Zealand Area PAU 7 (Marlborough)			
Management Authority	Ministry of Fisheries, New Zealand national management			
Assessor	National Institute of Water and Atmospheric Research			
Asmts in RAM	2011, 2015			

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-MT	2011	655			
SSBmsy	SSBmsy-MT	2015	1716			
Fmsy	Fmsy-extr-1/yr	2011	0.33			
ERmsy	ERmsy-ratio	2015	0.37			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2015	1716			
Fmgt	-	-	-			
ERmgt	ERmgt-ratio	2015	0.19			
TB0	-	-	-			
SSB0	SSB0-MT	2015	4291			
MSY	MSY-MT	2015	207			
М	M-1/yr	2015	0.11			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

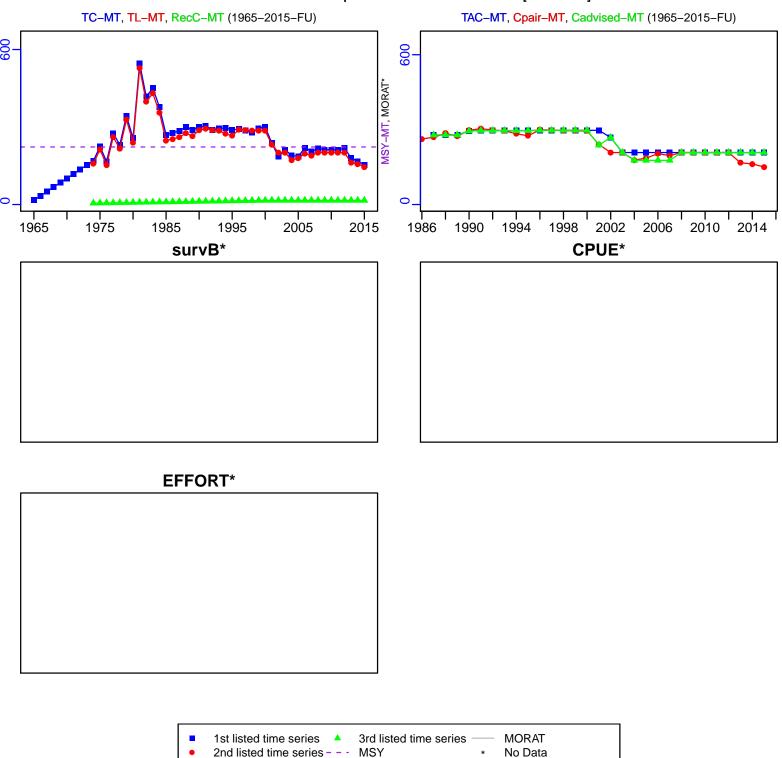
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2015	780	Both	-		
TN	-	-	-	-	-		
R	R-E00	2015	1,180,000	Both	-		
F	F-1/yr	2011	0	-	-		
ER	ER-ratio	2015	0	Both	-		
TC	TC-MT	2015	143				
TL	TL-MT	2015	135				
TB/TBmsy	-	-	-	]			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.45				
F/Fmsy	FdivFmsy-dimensionless	2011	1.3				
ER/ERmsy	ERdivERmsy-dimensionless	2015	1.23				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.45				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

### New Zealand abalone species New Zealand Area PAU 7 [PAUAPAU7]





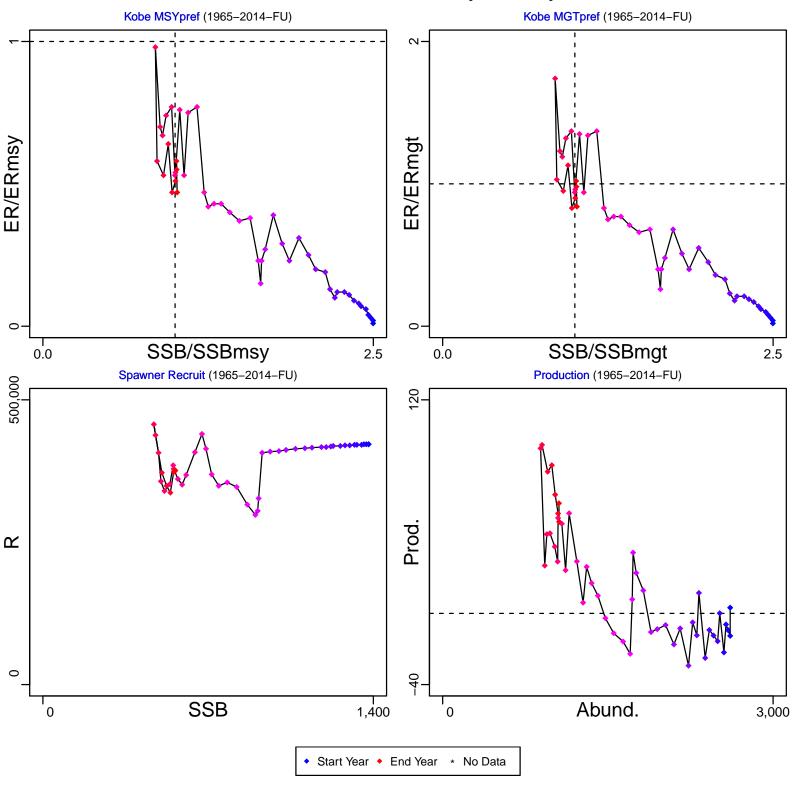
## New Zealand abalone species New Zealand Area PAU 7 [PAUAPAU7]

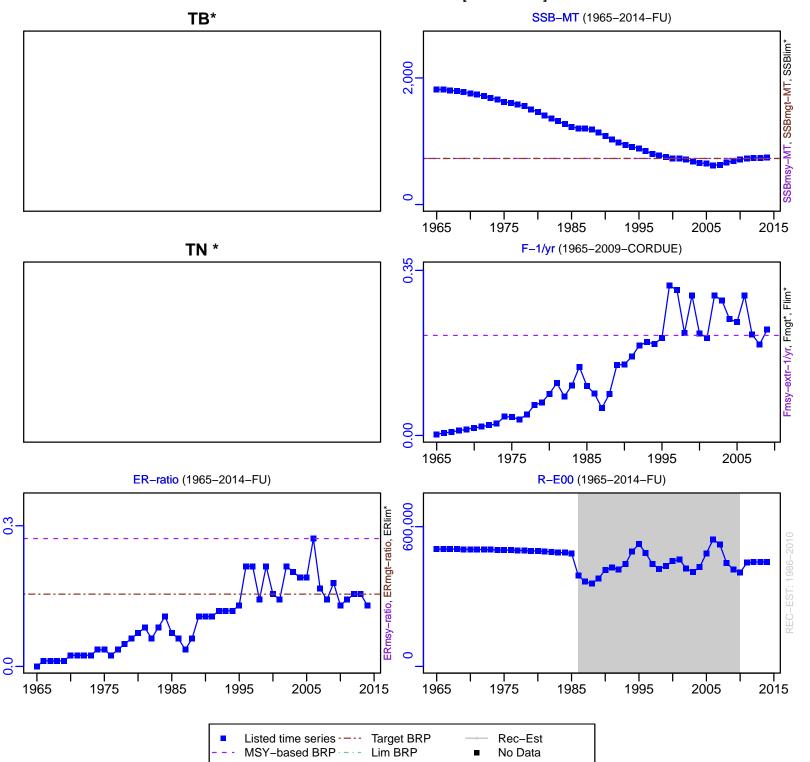


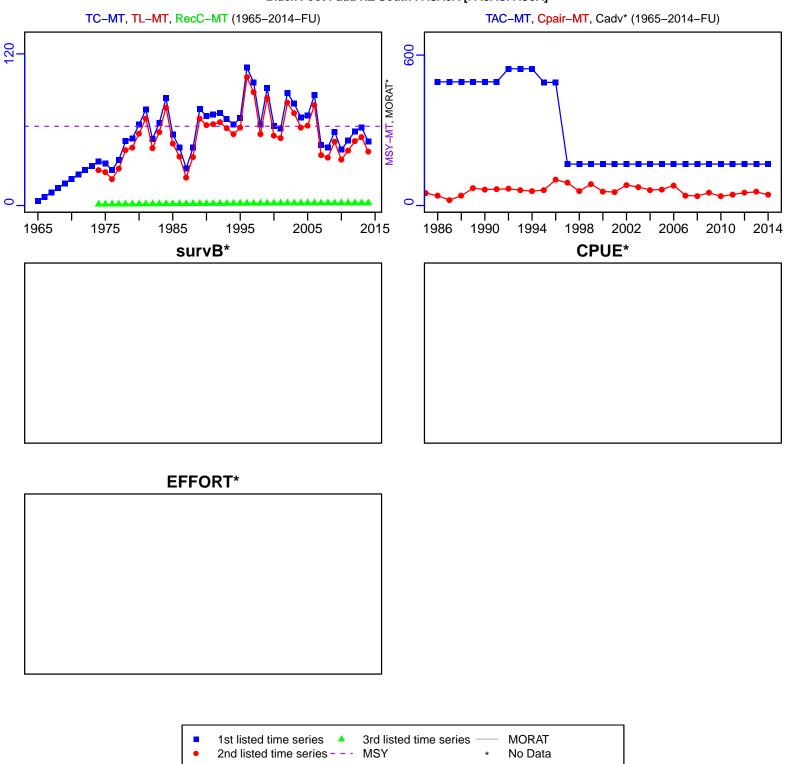
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUASPAU5A-1965-2014-FU		
Area	NZ Area South PAUA 5A		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009, 2014		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2009	234		
SSBmsy	SSBmsy-MT	2014	552		
Fmsy	Fmsy-extr-1/yr	2009	0.21		
ERmsy	ERmsy-ratio	2014	0.23		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2014	552		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2014	0.13		
TB0	-	-	-		
SSB0	SSB0-MT	2014	1381		
MSY	MSY-MT	2014	57		
М	M-1/yr	2014	0.11		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	561	-	-
TN	-	-	-	-	-
R	R-E00	2014	376,000	Both	-
F	F-1/yr	2009	0	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	45.9		
TL	TL-MT	2014	38.7		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.02		
F/Fmsy	FdivFmsy-dimensionless	2009	1.06		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.47		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.02		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



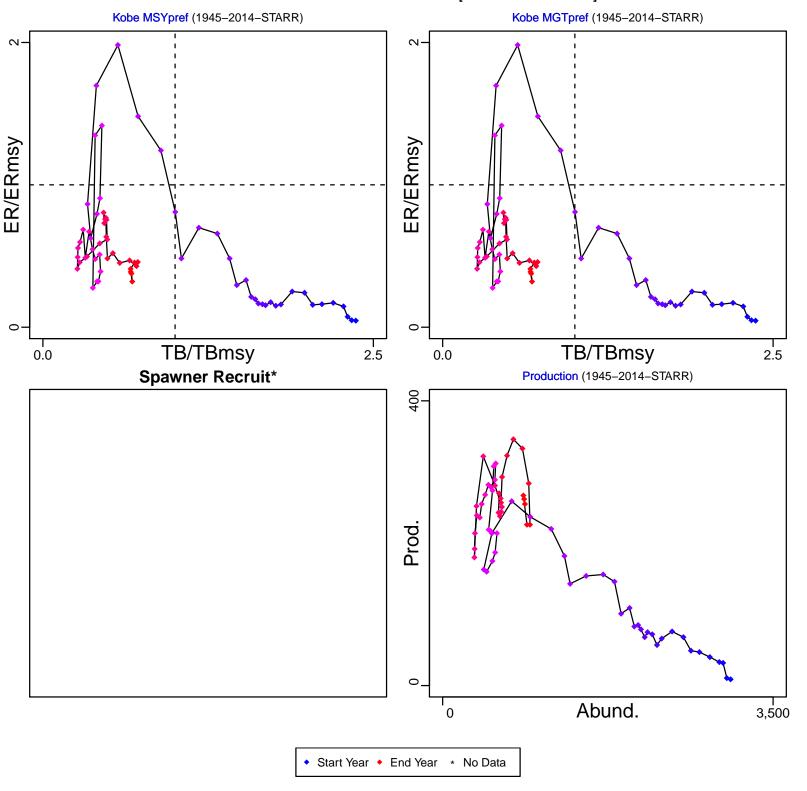


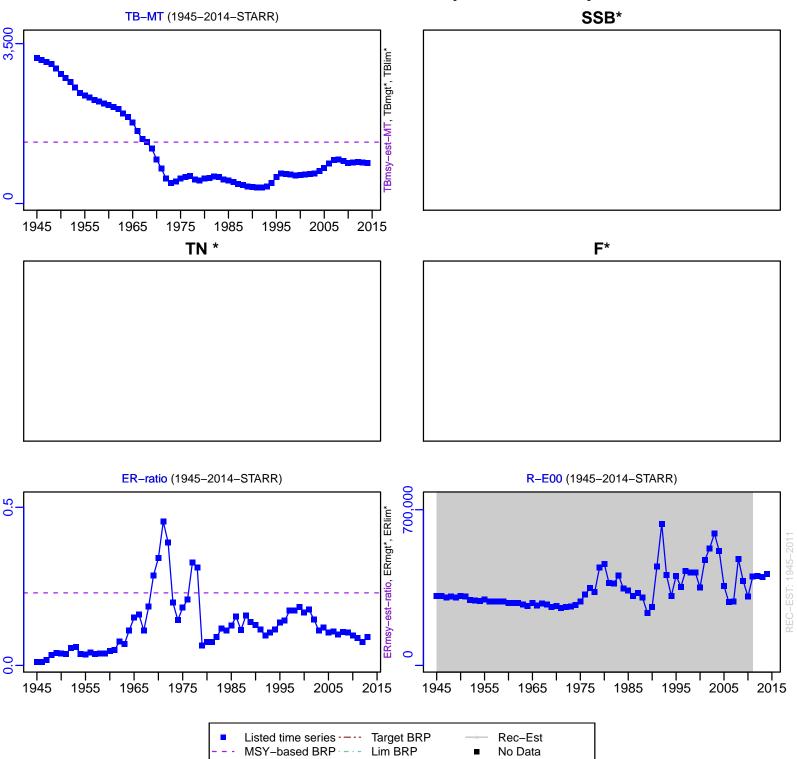


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA1-1945-2014-STARR		
Area New Zealand Area CRA1			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2001, 2014		

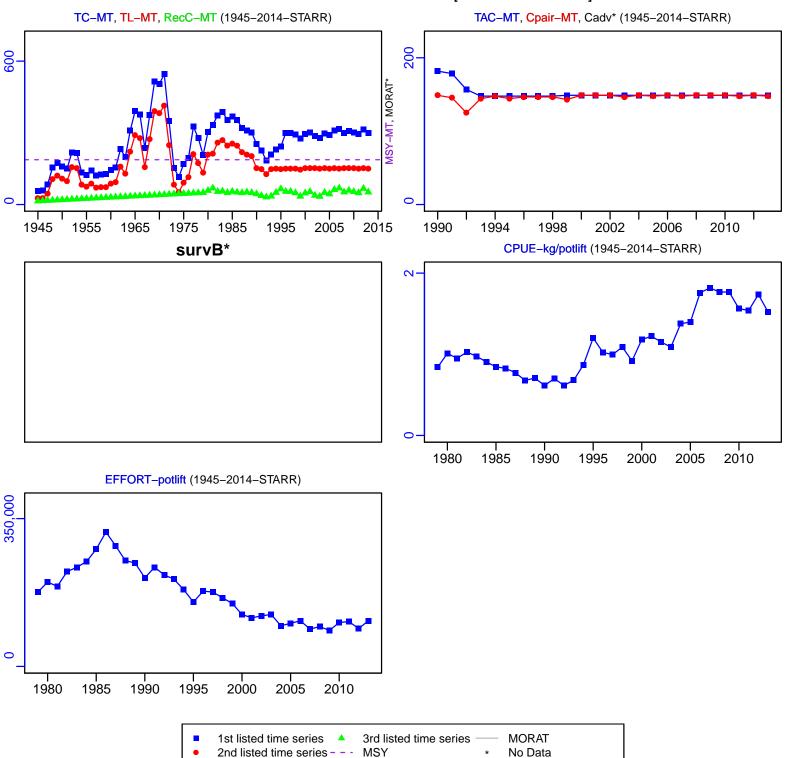
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2014	1288	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2014	0.22	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2014	161	
М	M-1/yr	2014	0.12	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-		
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	851	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2014	384,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	257		
TL	TL-MT	2014	130		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	0.66		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2014	0.39		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





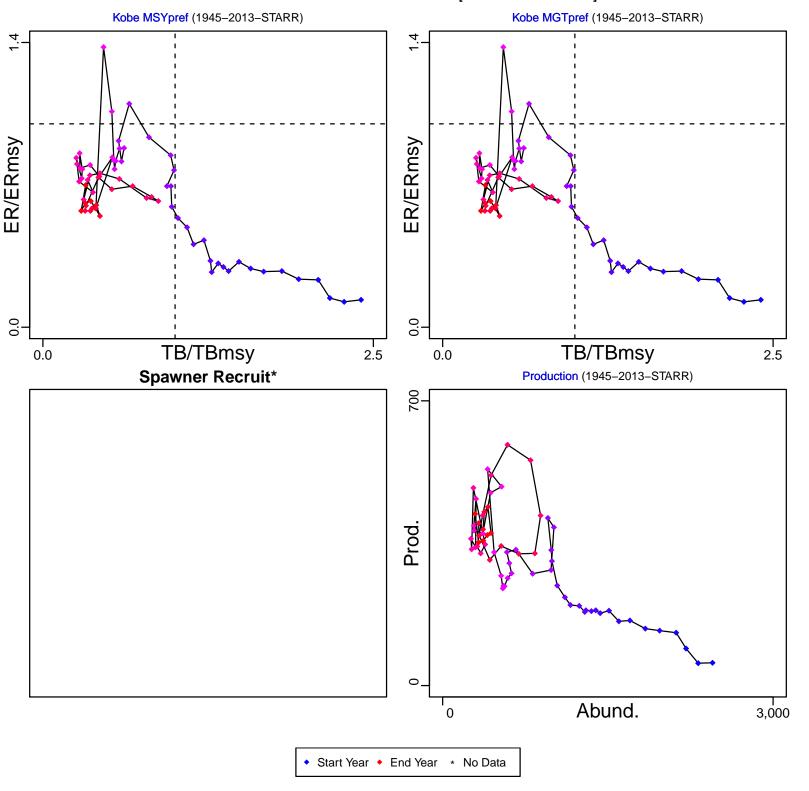
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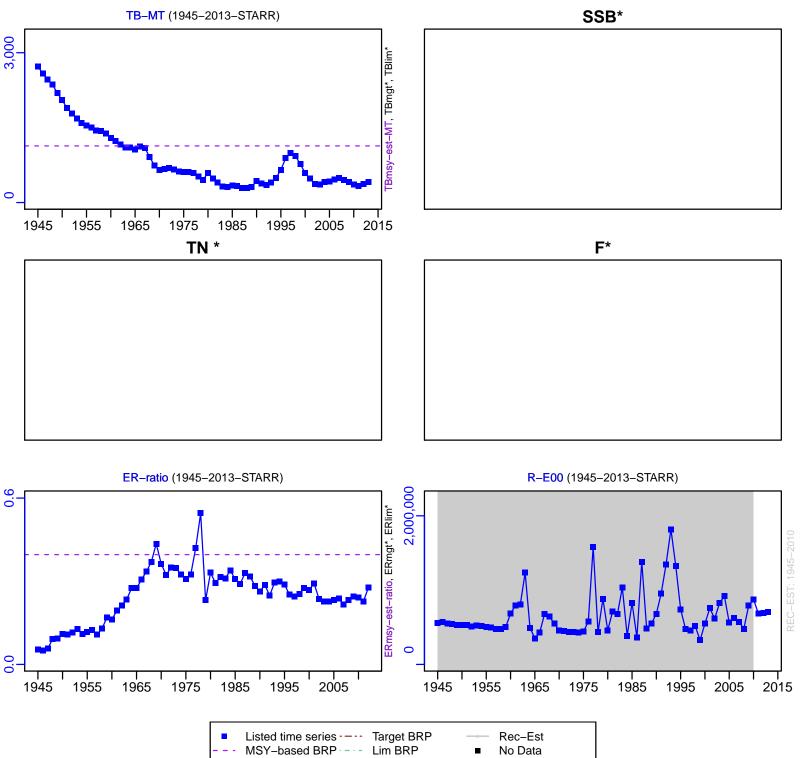


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA2-1945-2013-STARR		
Area New Zealand Area CRA2			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2001, 2013		

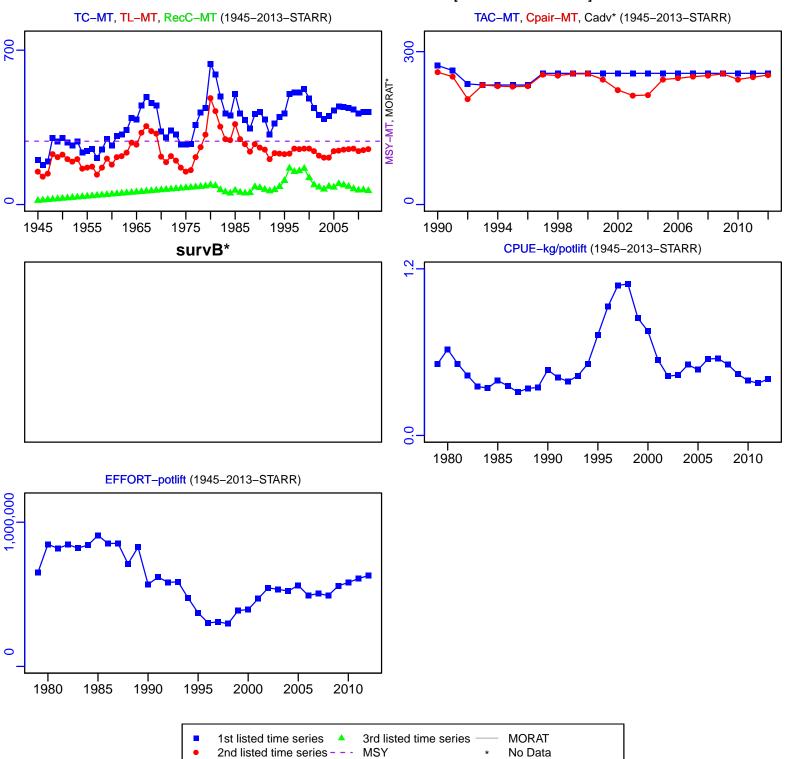
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2013	1018	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2013	0.4	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	266	
M	M-1/yr	2013	0.16	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-		
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	366	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2013	627,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2013	0	Both	-
TC	TC-MT	2013	389		
TL	TL-MT	2013	233		
TB/TBmsy	TB-MT/TBmsy-est-MT	2013	0.36		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2013	0.7		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





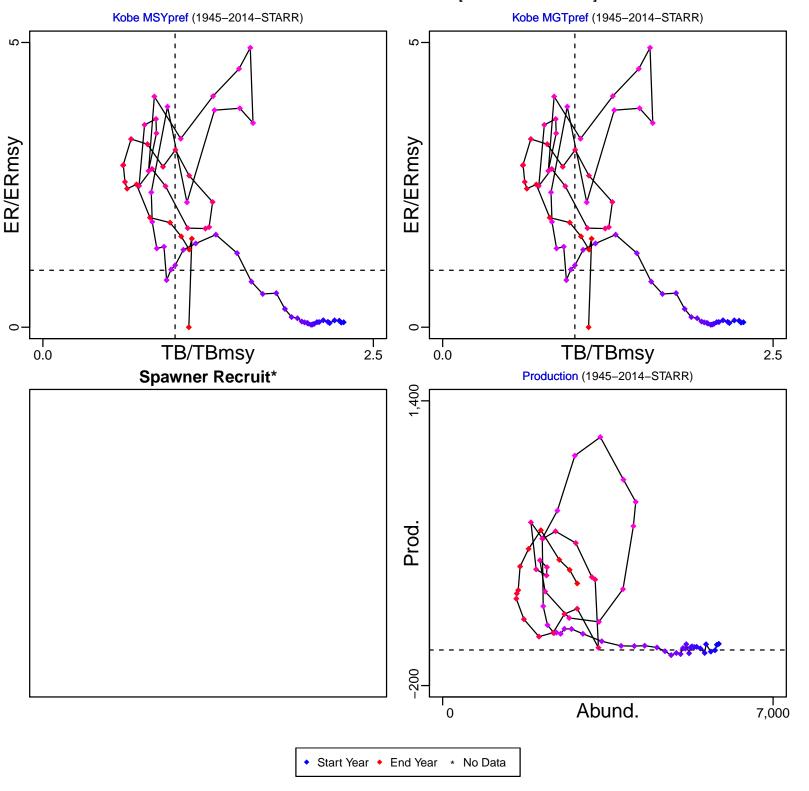
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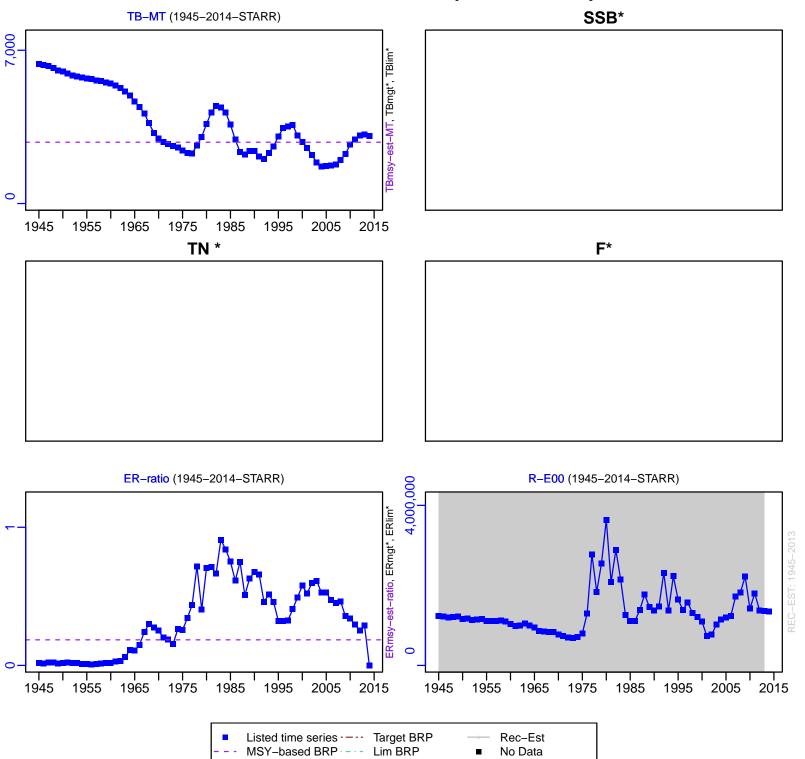


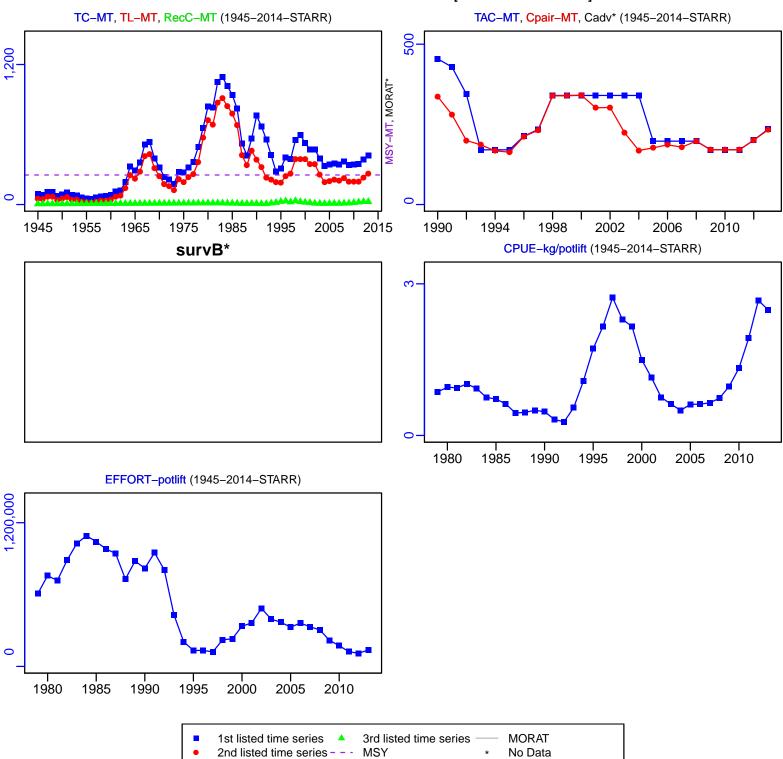
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA3-1945-2014-STARR		
Area New Zealand Area CRA3			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2007, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2014	2573	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2014	0.15	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	ı	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2014	212	
M	M-1/yr	2014	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	•	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	2840	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2014	1,290,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	354		
TL	TL-MT	2014	224		
TB/TBmsy	TB-MT/TBmsy-est-MT	2014	1.1		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2014	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



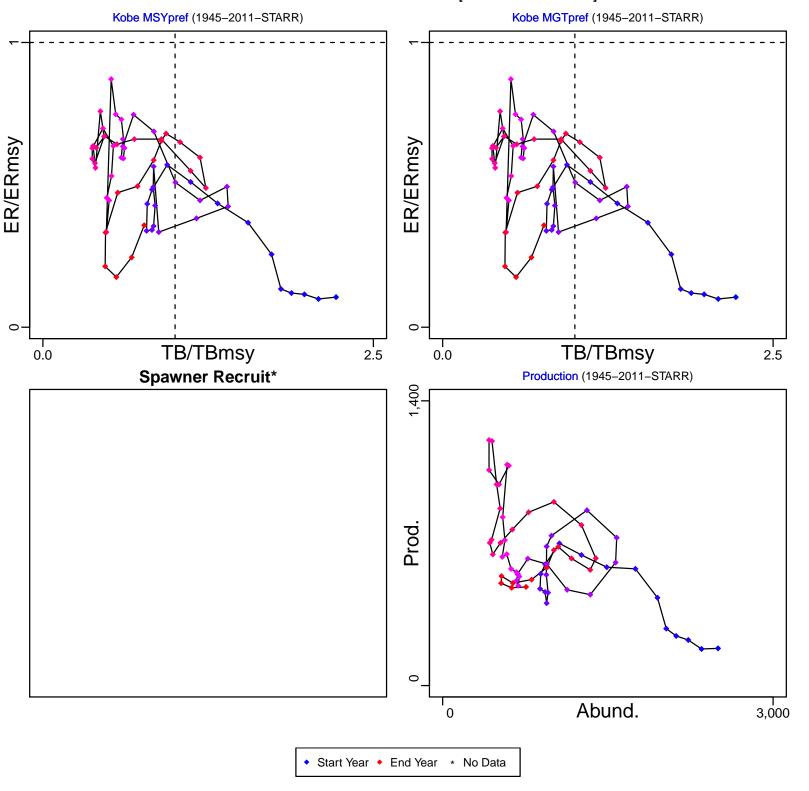


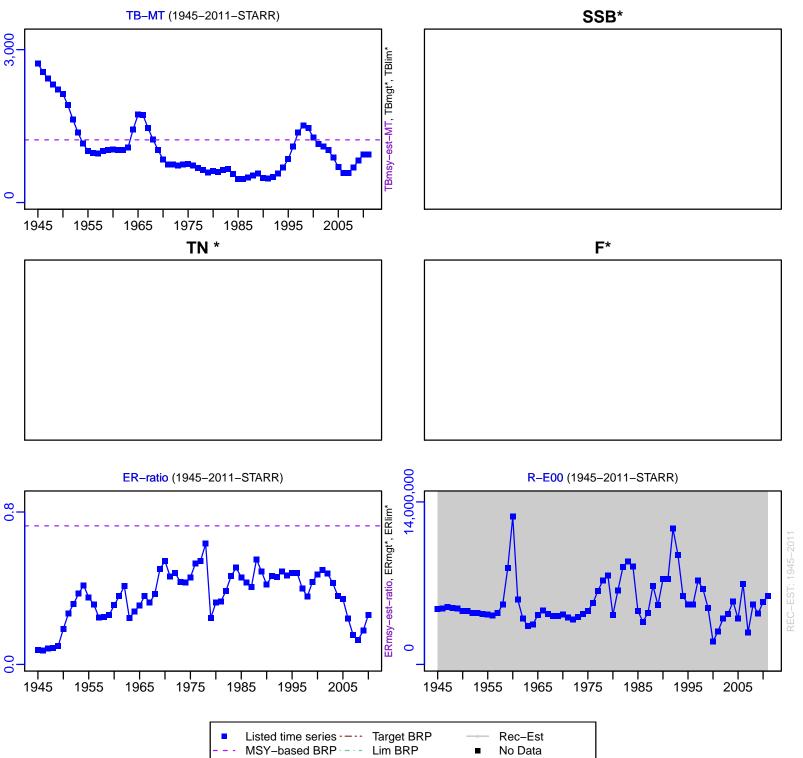


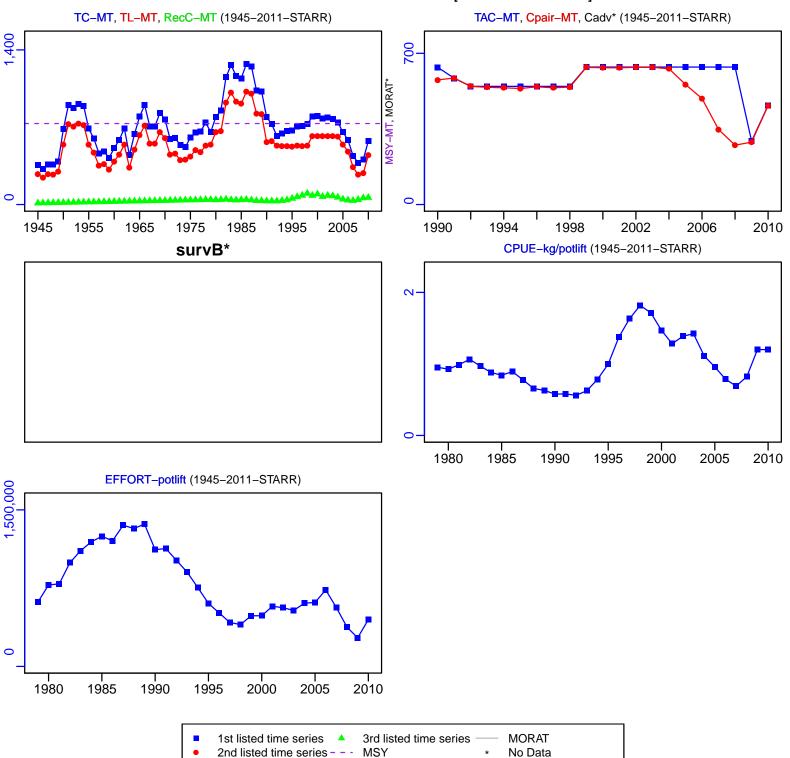
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA4-1945-2011-STARR		
Area	New Zealand Area CRA4		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2005, 2011		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2011	1127	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2011	0.66	
TBmgt	-	-	-	
SSBmgt	1	-	-	
Fmgt	ı	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	680	
М	M-1/yr	2011	0.32	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	863	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2011	5,750,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2011	0	Both	-
TC	TC-MT	2011	533		
TL	TL-MT	2011	415		
TB/TBmsy	TB-MT/TBmsy-est-MT	2011	0.77		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2011	0.36		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



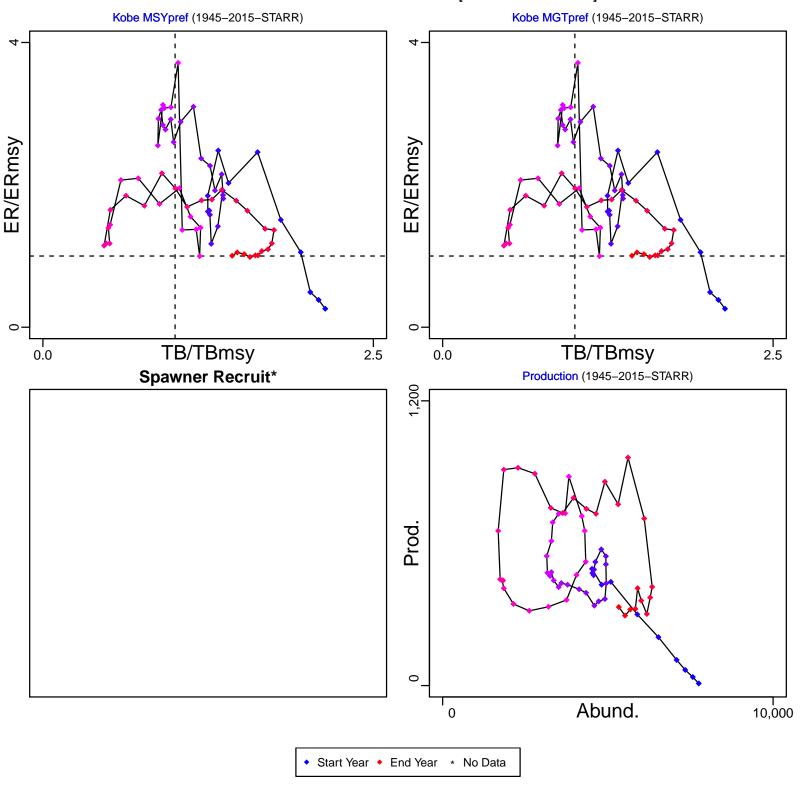


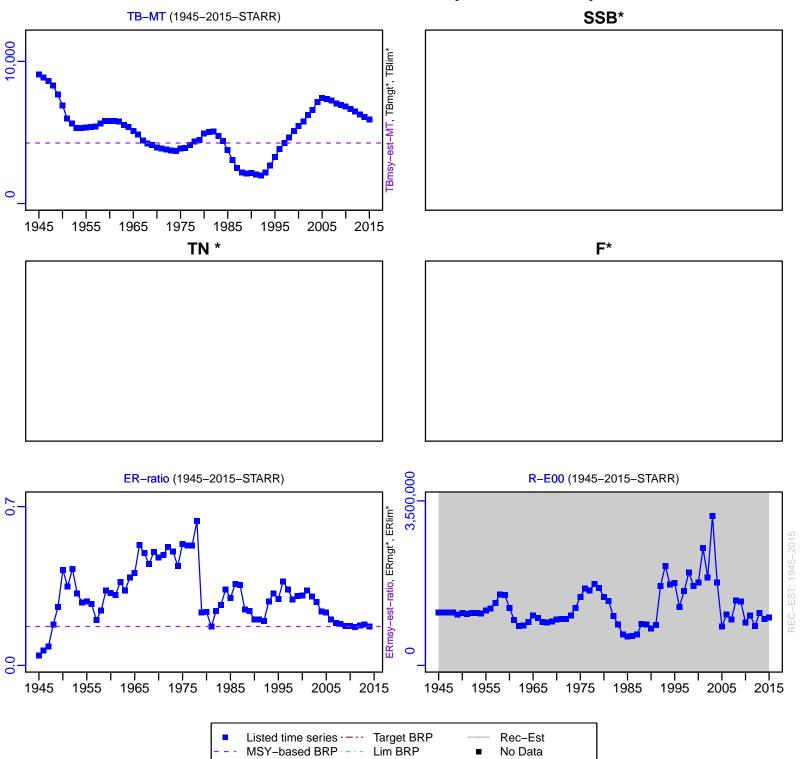


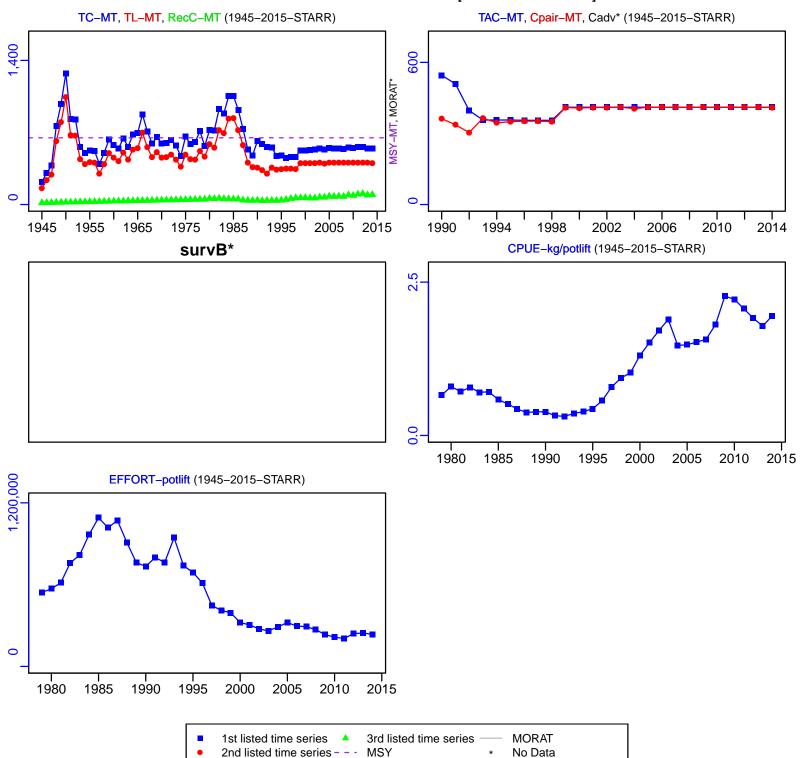
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA5-1945-2015-STARR		
Area New Zealand Area CRA5			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2002, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2015	3627	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2015	0.16	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	560	
М	M-1/yr	2015	0.13	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-		
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	5050	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	1,010,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0	Both	-
TC	TC-MT	2015	472		
TL	TL-MT	2015	349		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	1.39		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2015	1		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



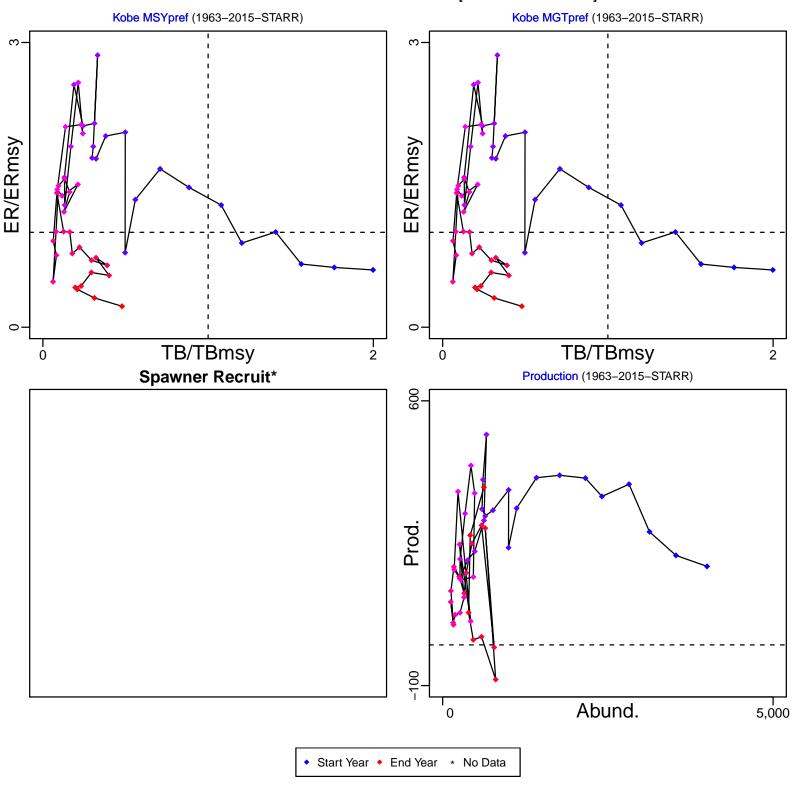


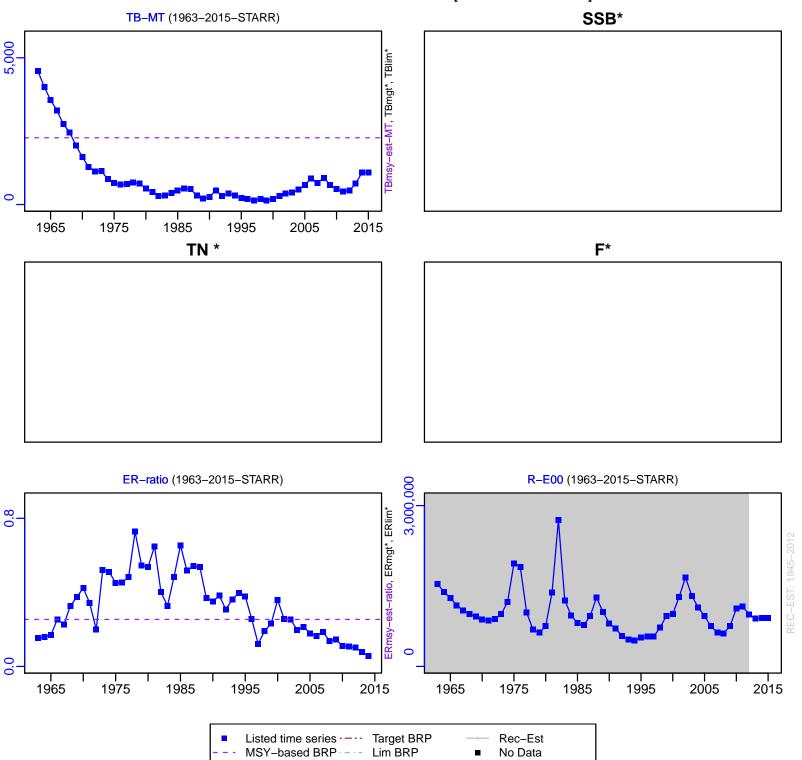


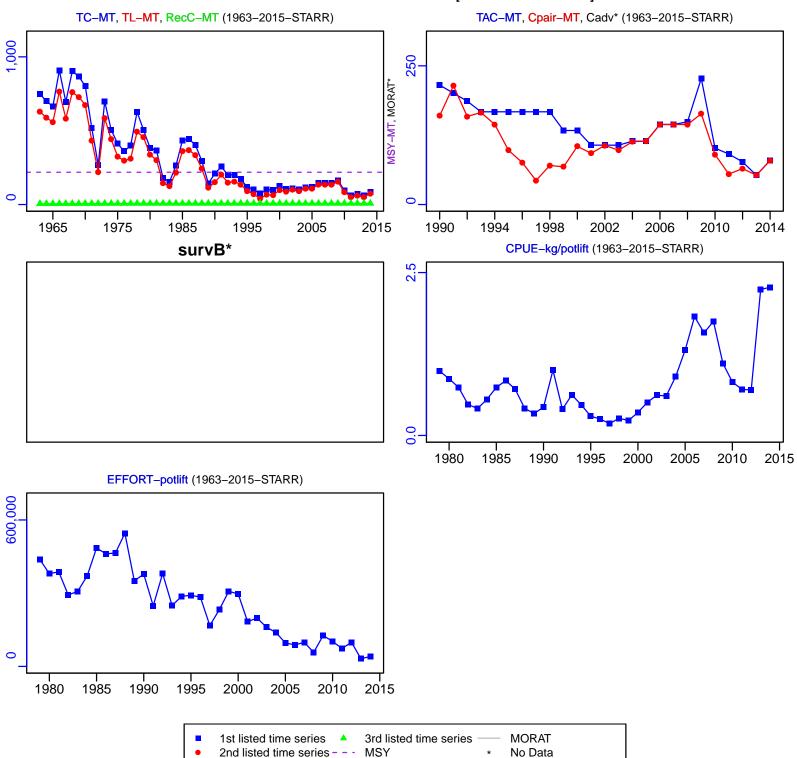
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA7-1963-2015-STARR		
Area New Zealand Area CRA7			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2015, 2005		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2015	2002	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2015	0.23	
TBmgt	-	-	-	
SSBmgt	1	-	-	
Fmgt	ı	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	194	
M	M-1/yr	2015	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	962	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	871,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0	Both	-
TC	TC-MT	2015	74.7		
TL	TL-MT	2015	66		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.48		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2015	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



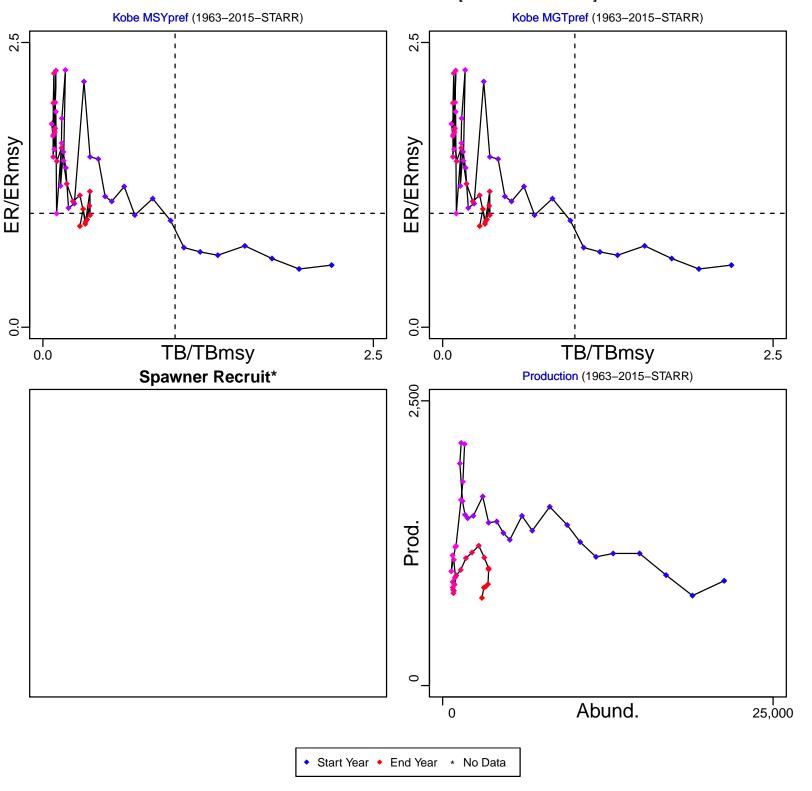


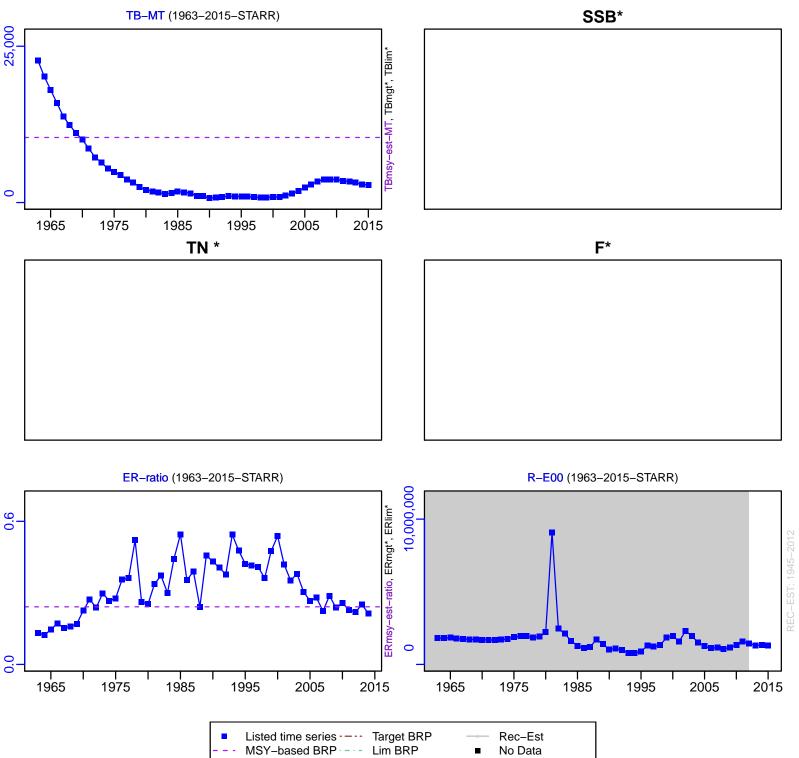


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA8-1963-2015-STARR		
Area	New Zealand Area CRA8		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2015, 2005		

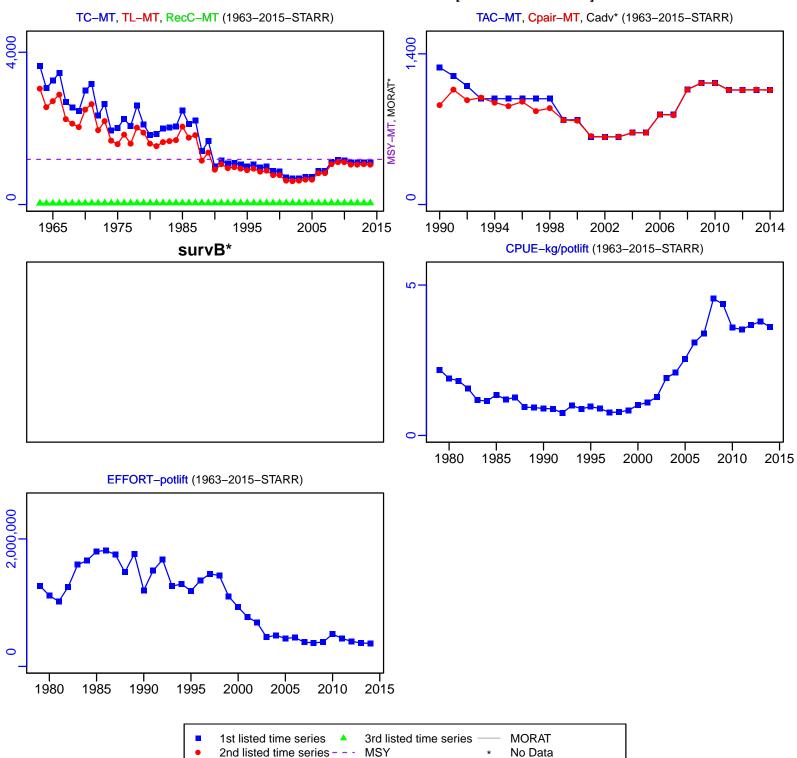
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-est-MT	2015	9750	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-est-ratio	2015	0.21	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	1083	
М	M-1/yr	2015	0.09	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	2630	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	1,140,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2015	0	Both	-
TC	TC-MT	2015	1010		
TL	TL-MT	2015	960		
TB/TBmsy	TB-MT/TBmsy-est-MT	2015	0.27		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-est-ratio	2015	0.89		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data

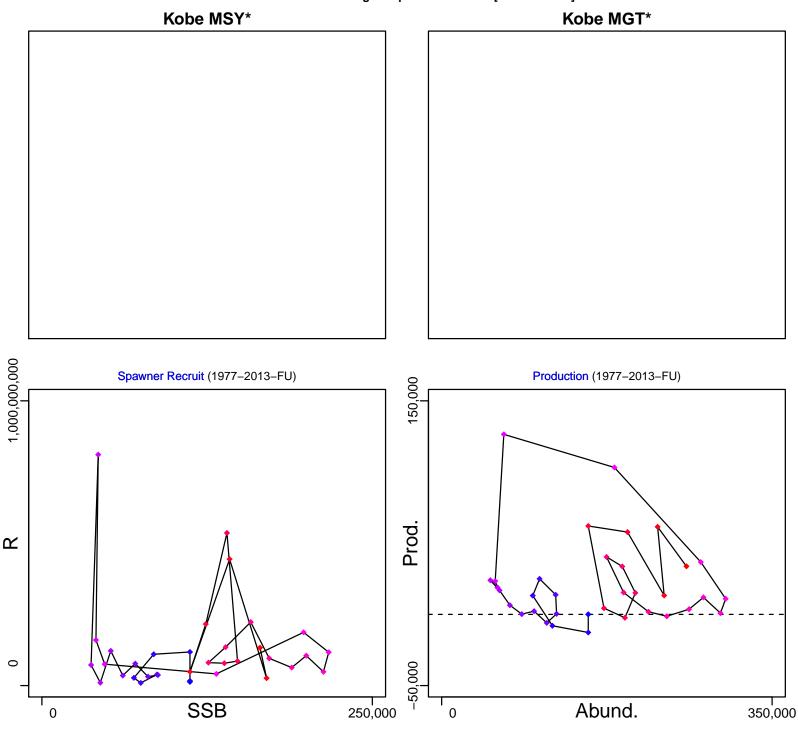


## Southern blue whiting Campbell Island Rise [SBWHITACIR]

Metadata				
Scientific Name	Micromesistius australis			
Current Assess ID	NZMFishMIDDEPTHSWG-SBWHITACIR-1977-2013-FU			
Area	New Zealand - Campbell Island Rise			
Management Authority	Ministry of Fisheries, New Zealand national managemen			
Assessor	Middle Depths Working Group			
Asmts in RAM	2013, 2011			

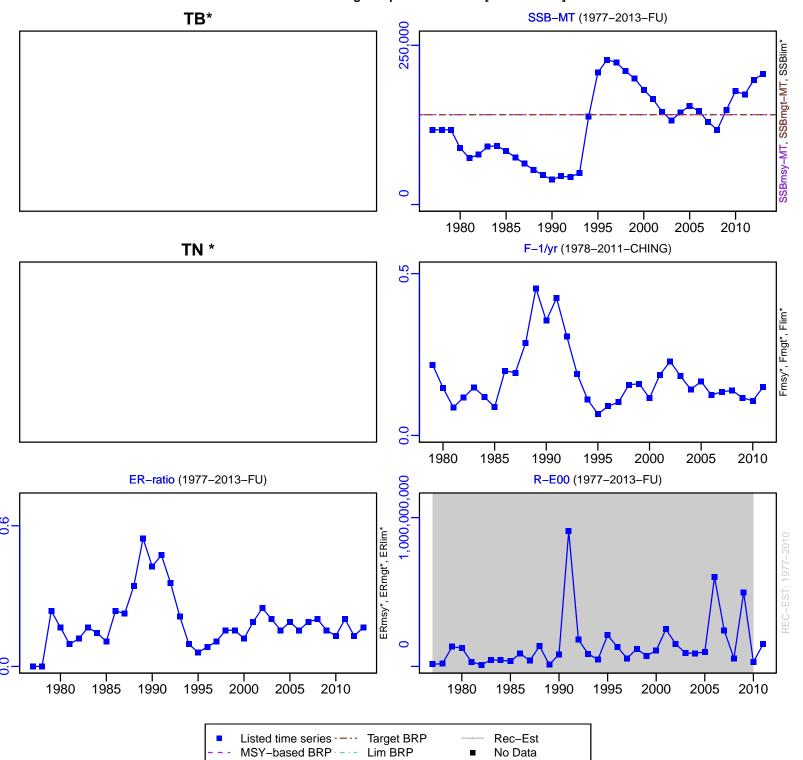
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2013	134,634			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2013	134,634			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	SSB0-MT	2013	336,585			
MSY	-	-	-			
M	M-1/yr	2013	0.2			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2013	196,000	-	2 to 15		
TN	-	-	-	-	-		
R	R-E00	2013	$1.33 \times 10^{8}$	Both	-		
F	F-1/yr	2011	0	-	-		
ER	ER-ratio	2013	0	Both	2 to 15		
TC	TC-MT	2013	28,600				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.46				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.46				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

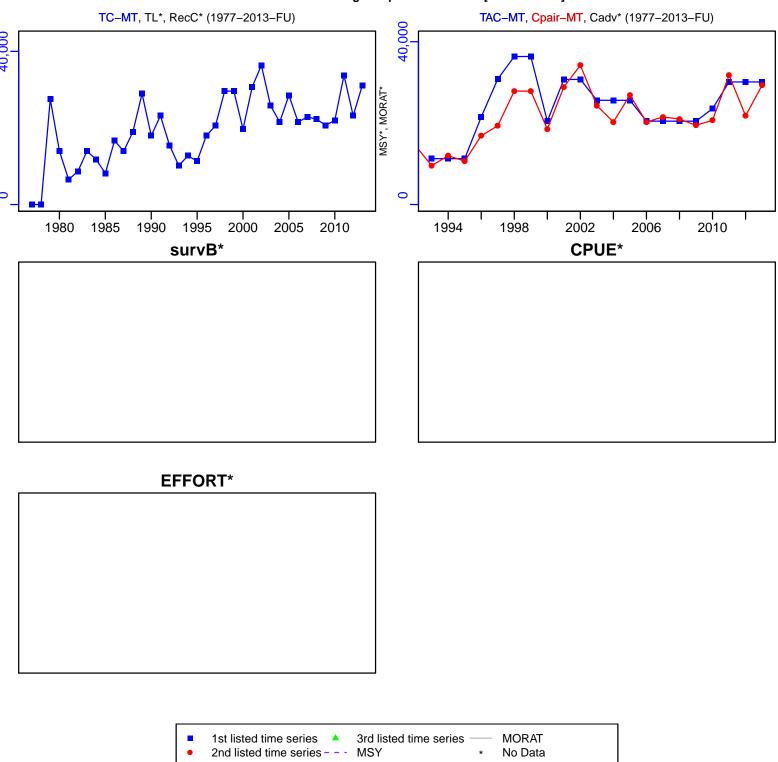


Start Year • End Year • No Data

#### Southern blue whiting Campbell Island Rise [SBWHITACIR]



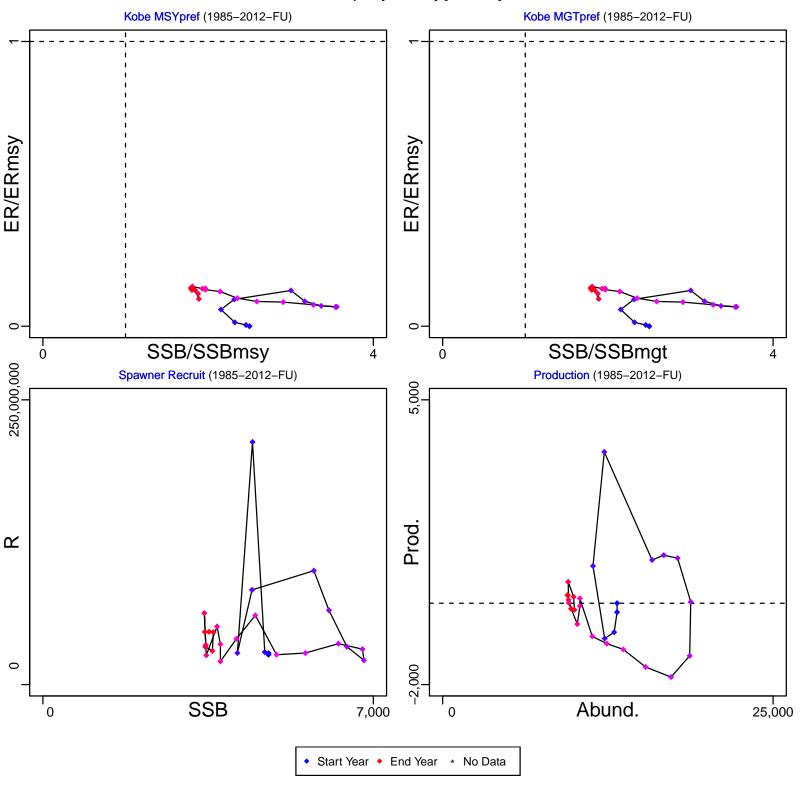
## Southern blue whiting Campbell Island Rise [SBWHITACIR]

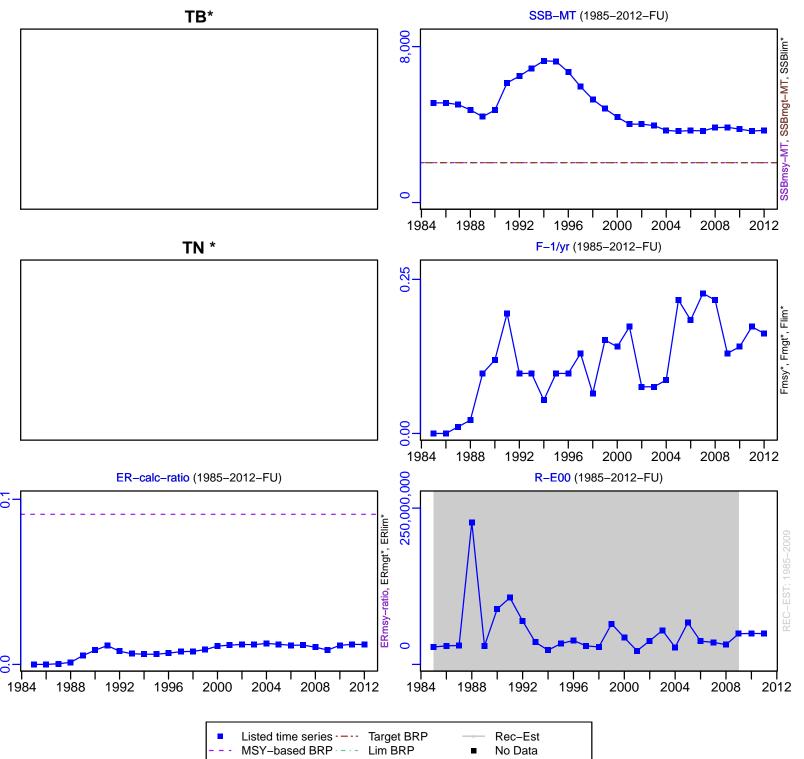


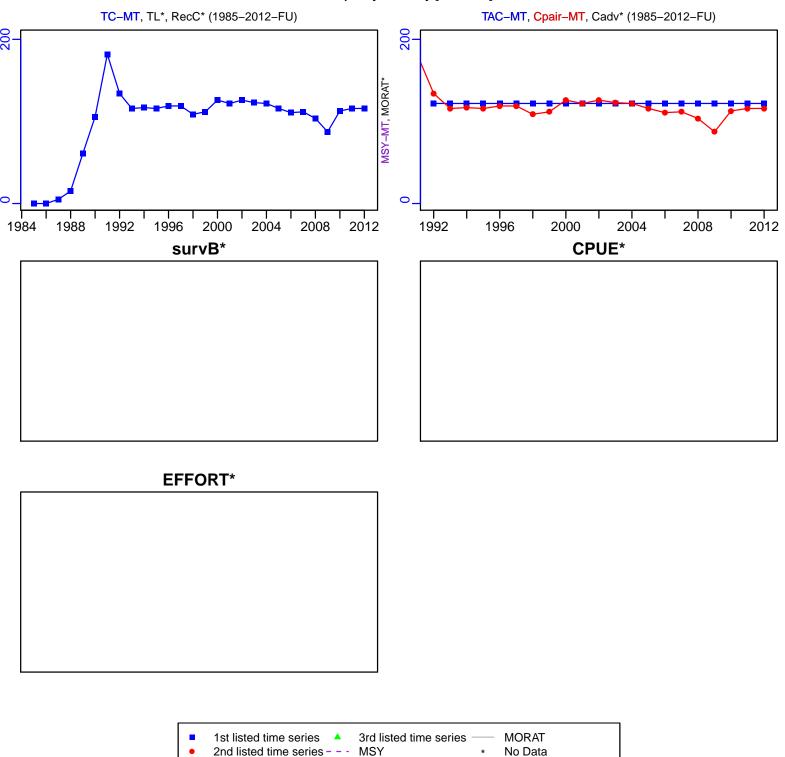
Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPBP-1985-2012-FU		
Area Bay of Plenty			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2012	1912	
Fmsy	Fmsy-1/yr	2010	0.54	
ERmsy	ERmsy-ratio	2012	0.09	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	1912	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2012	4779	
MSY	MSY-MT	2012	342	
М	M-1/yr	2012	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	3460	-	-
TN	-	-	-	-	-
R	R-E00	2012	46,200,000	Both	-
F	F-1/yr	2012	0	Females	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	114		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.81		
F/Fmsy	FdivFmsy-dimensionless	2010	0.25		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2012	0.13		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.81		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





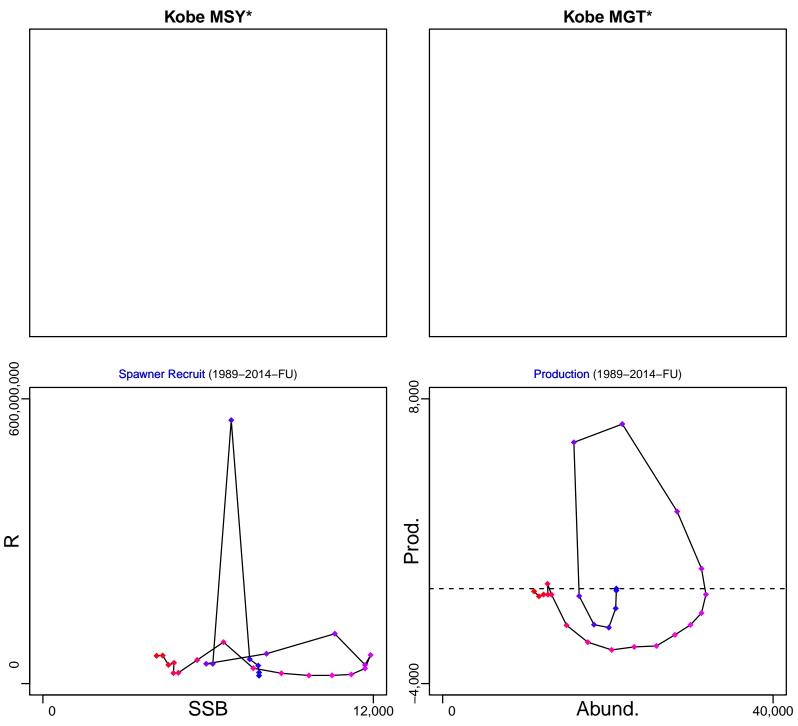


## Scampi Mernoo Bank [SCMPMB]

Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPMB-1989-2014-FU		
Area Mernoo Bank			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014		

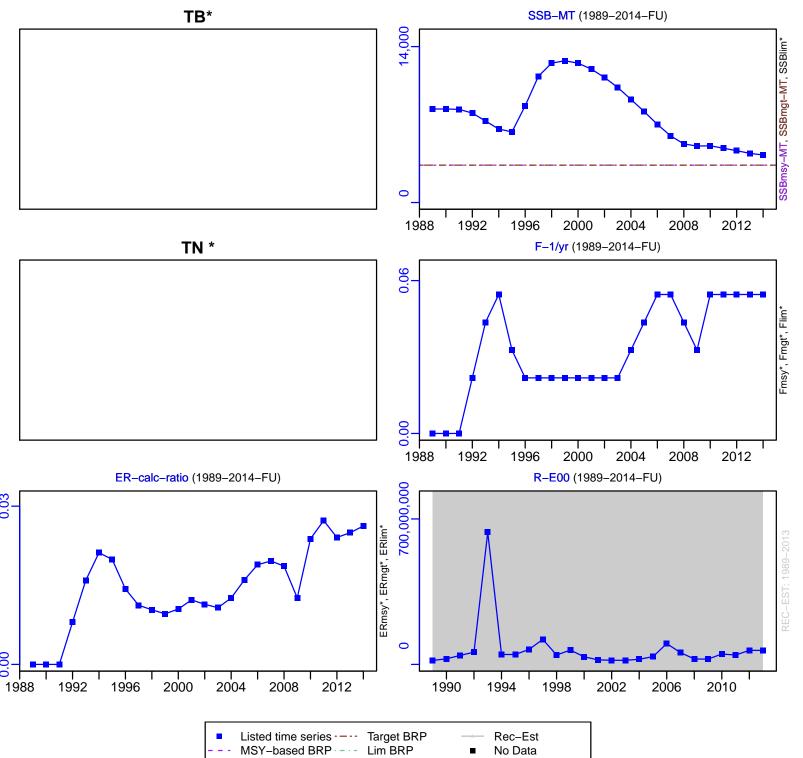
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2014	3138	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	3138	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	7845	
MSY	-	-	-	
М	M-1/yr	2014	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	3990	-	-
TN	-	-	-	-	-
R	R-E00	2014	58,600,000	Both	-
F	F-1/yr	2014	0	Both	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	266		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.27		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.27		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

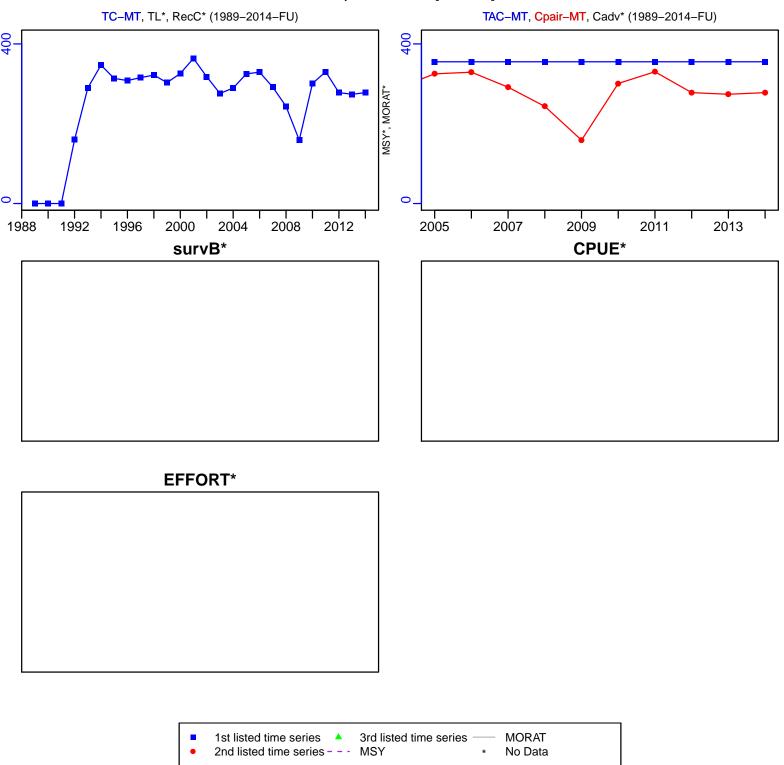


Start Year → End Year → No Data

#### Scampi Mernoo Bank [SCMPMB]



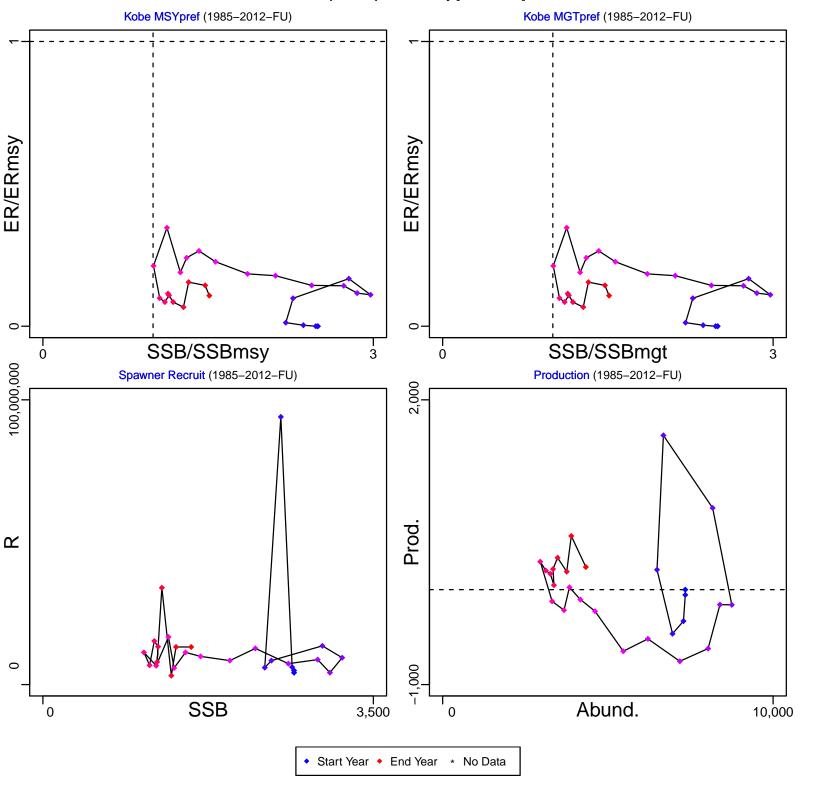
### Scampi Mernoo Bank [SCMPMB]

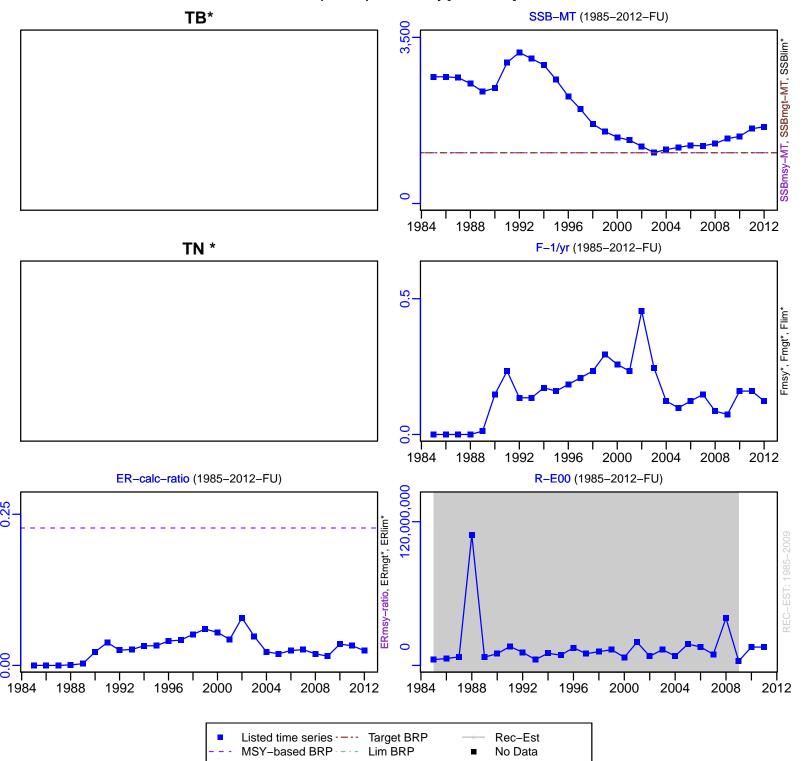


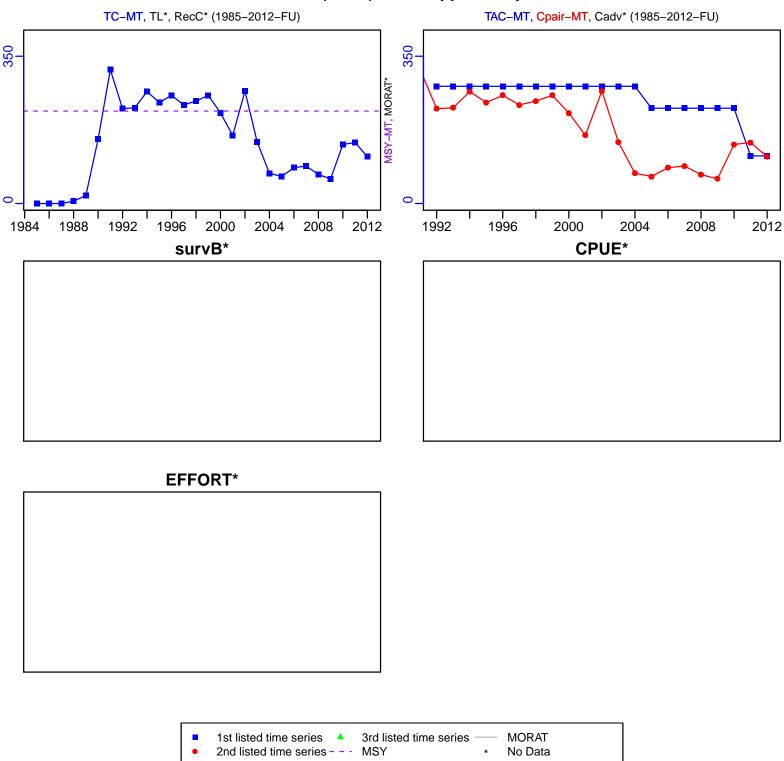
Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPWHB-1985-2012-FU		
Area Wairarapa/Hawke Bay			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2012	1066	
Fmsy	Fmsy-1/yr	2010	0.51	
ERmsy	ERmsy-ratio	2012	0.21	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	1066	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2012	2664	
MSY	MSY-MT	2012	194	
M	M-1/yr	2012	0.3	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	1610	-	-
TN	-	-	-	-	-
R	R-E00	2012	13,200,000	Both	-
F	F-1/yr	2012	0	Both	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	98.3		
TL	-	-	-		
TB/TBmsy	•	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.51		
F/Fmsy	FdivFmsy-dimensionless	2010	0.34		
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2012	0.11		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.51		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



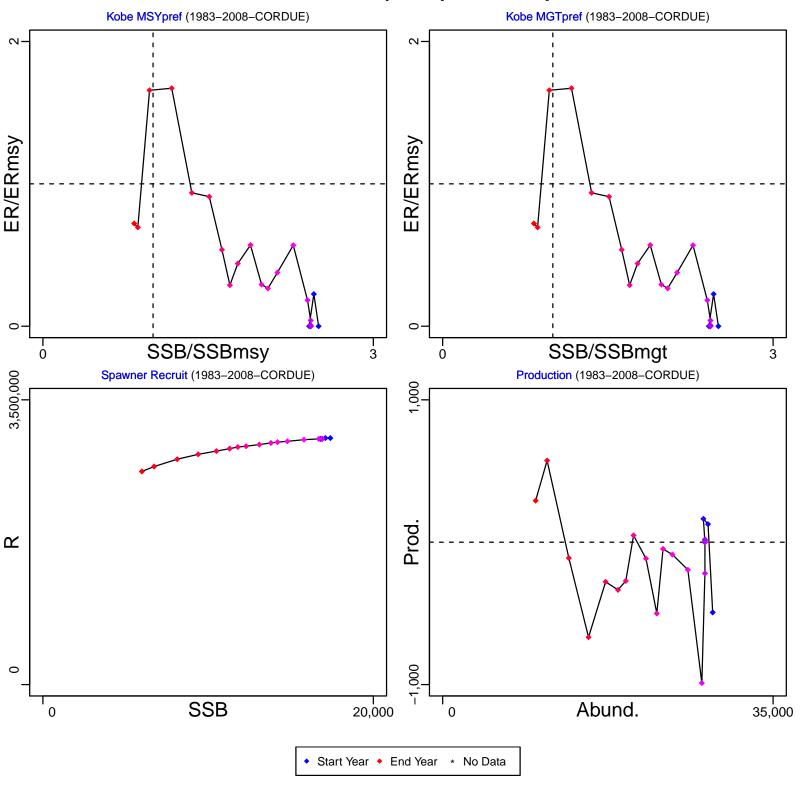


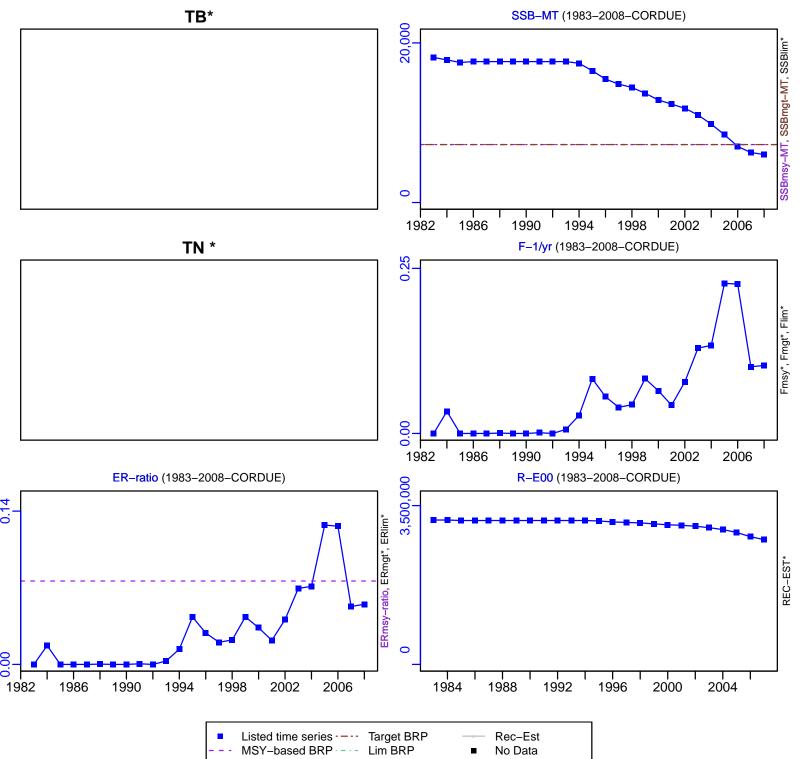


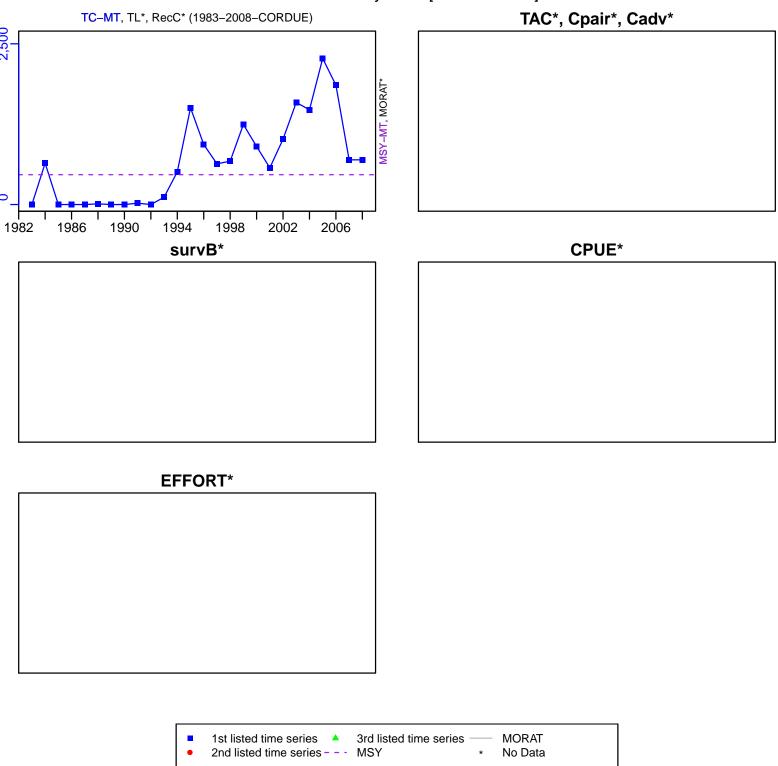
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOBP-1983-2008-CORDUE		
Area	Bounty Plateau		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2008		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2008	6386		
SSBmsy	SSBmsy-MT	2008	6951		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2008	0.07		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2008	6951		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2008	17,378		
MSY	MSY-MT	2008	447		
М	M-1/yr	2008	0.06		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2008	5760	Both	25+
TN	-	-	-	-	-
R	R-E00	2008	2,620,000	-	1
F	F-1/yr	2008	0	-	-
ER	ER-ratio	2008	0	-	-
TC	TC-MT	2008	670		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.83		
F/Fmsy	FdivFmsy-dimensionless	2008	1.42		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.72		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2008	0.83		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



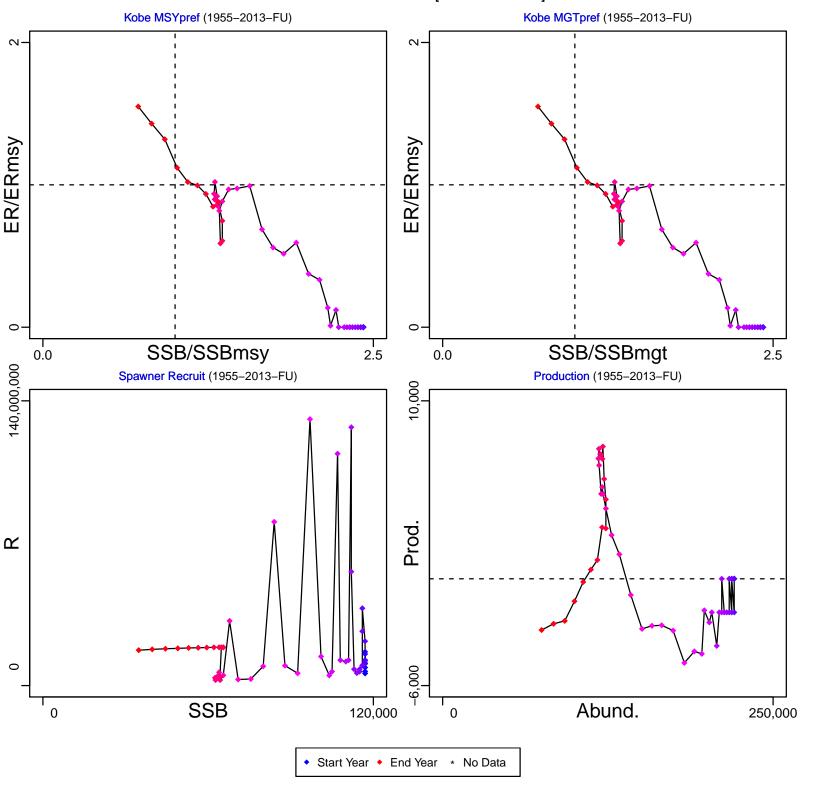


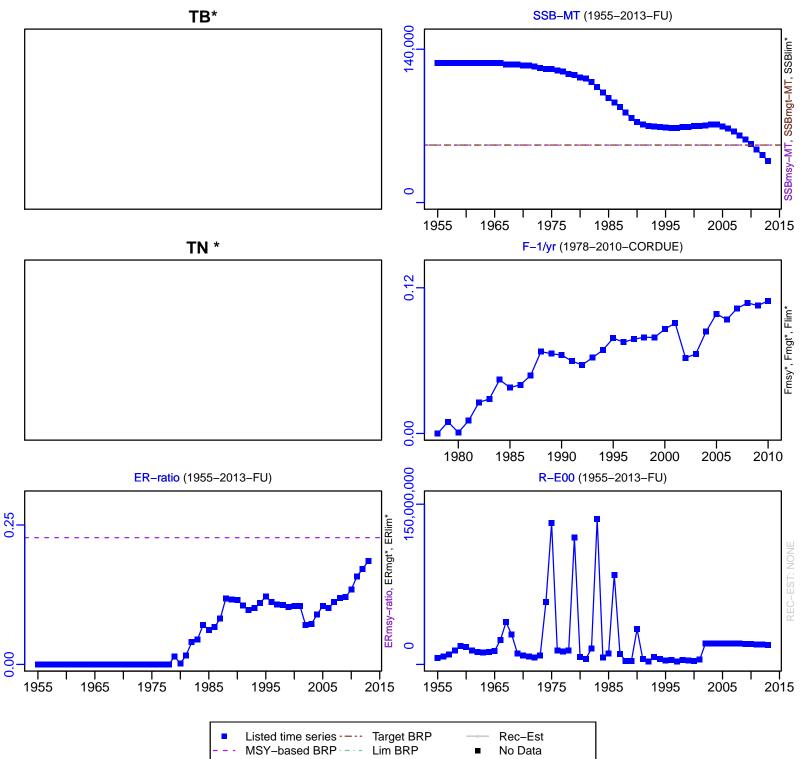


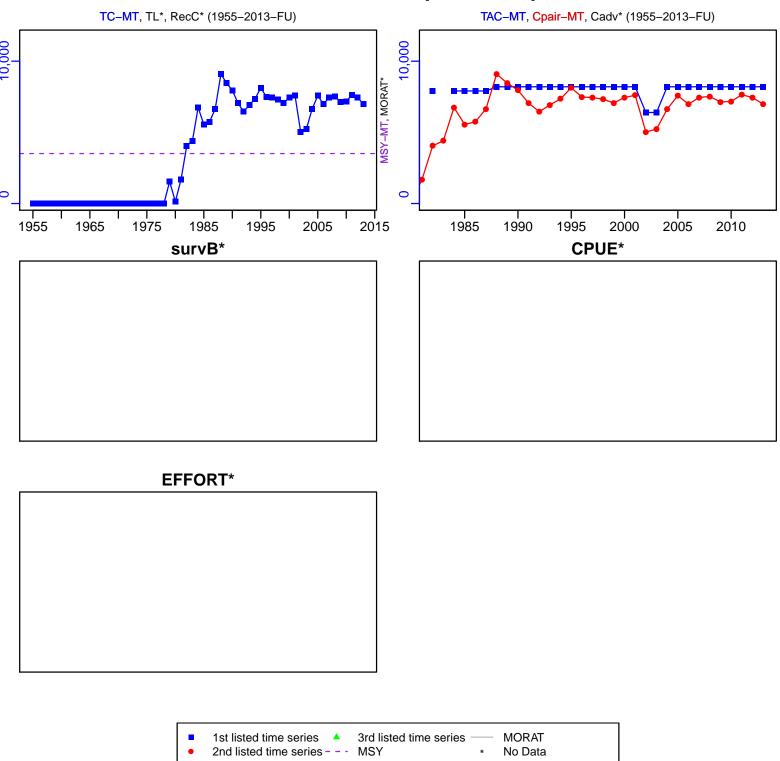
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOCR-1955-2013-FU		
Area	Chatham Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013, 2010		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2010	43,300		
SSBmsy	SSBmsy-MT	2013	48,252		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2013	0.19		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2013	48,252		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2013	120,629		
MSY	MSY-MT	2013	2996		
М	M-1/yr	2013	0.06		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-		-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2013	34,800	-	1 to 70
TN	-	-	-	-	-
R	R-E00	2013	17,400,000	Both	1 to 70
F	F-1/yr	2010	0	-	-
ER	ER-ratio	2013	0	Both	1 to 70
TC	TC-MT	2013	5960		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.72		
F/Fmsy	FdivFmsy-dimensionless	2010	1.03		
ER/ERmsy	ERdivERmsy-dimensionless	2013	1.55		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.72		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



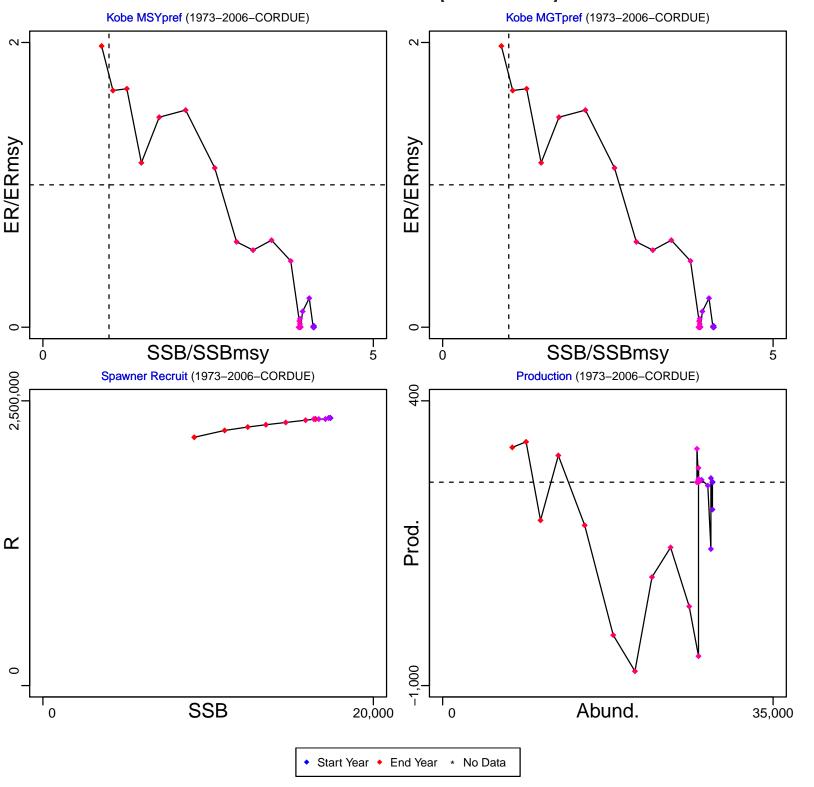


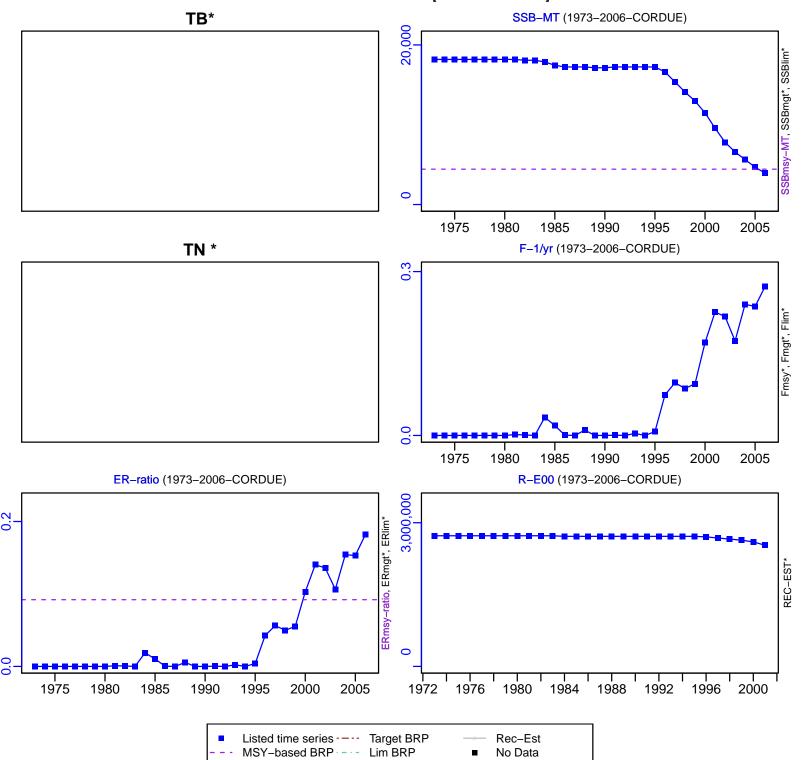


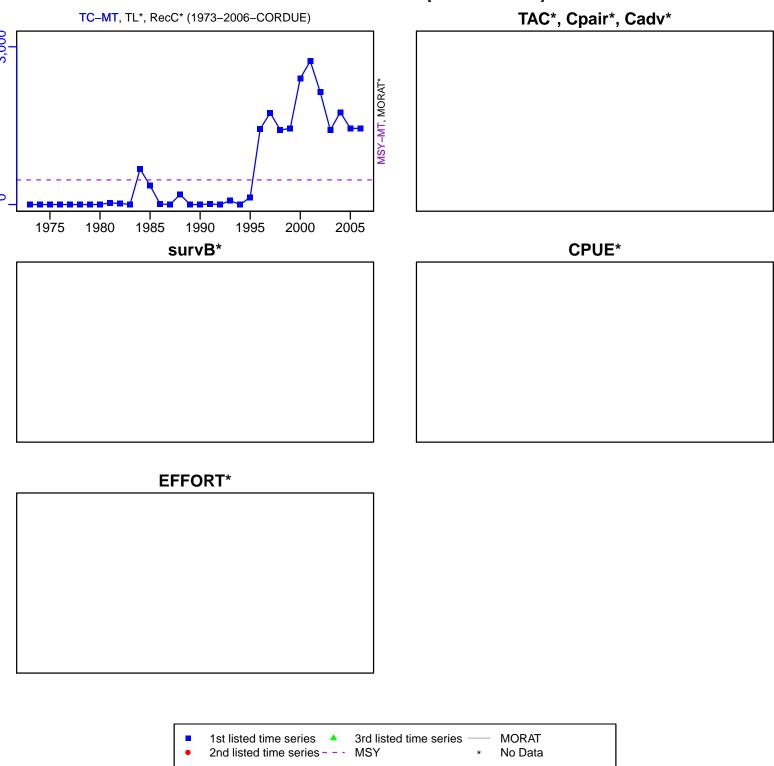
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOEPR-1973-2006-CORDUE		
Area	East Pukaki Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2006		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2006	5538	
SSBmsy	SSBmsy-MT	2006	4239	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2006	0.08	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2006	17,372	
MSY	MSY-MT	2006	443	
М	M-1/yr	2006	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2006	3760	Both	-
TN	-	-	-	-	-
R	R-E00	2006	2,180,000	-	5
F	F-1/yr	2006	0	-	-
ER	ER-ratio	2006	0	-	-
TC	TC-MT	2006	1370		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2006	0.89		
F/Fmsy	FdivFmsy-dimensionless	2006	3.35		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	1.98		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



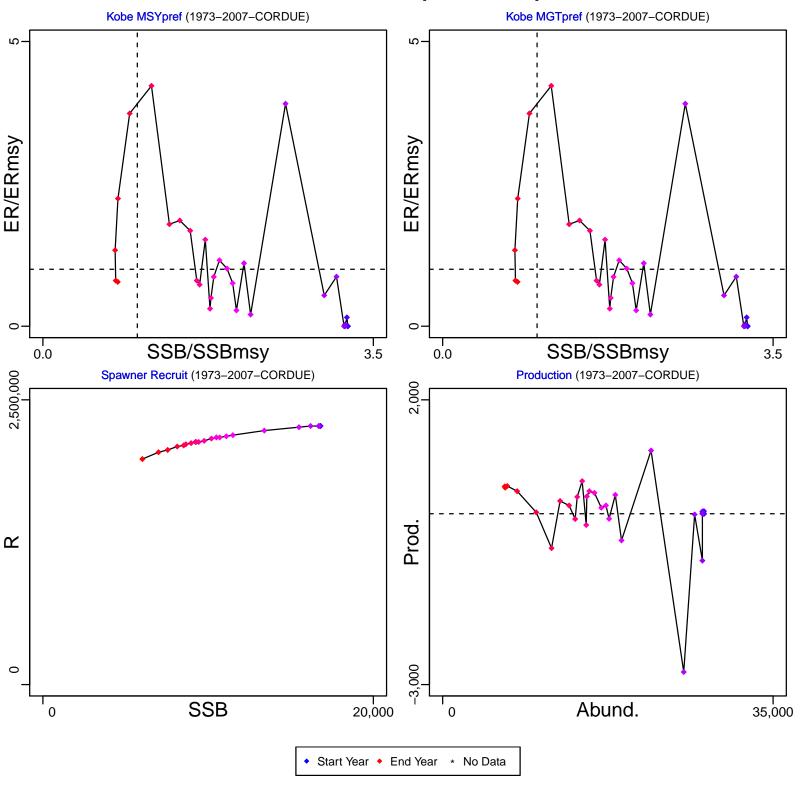


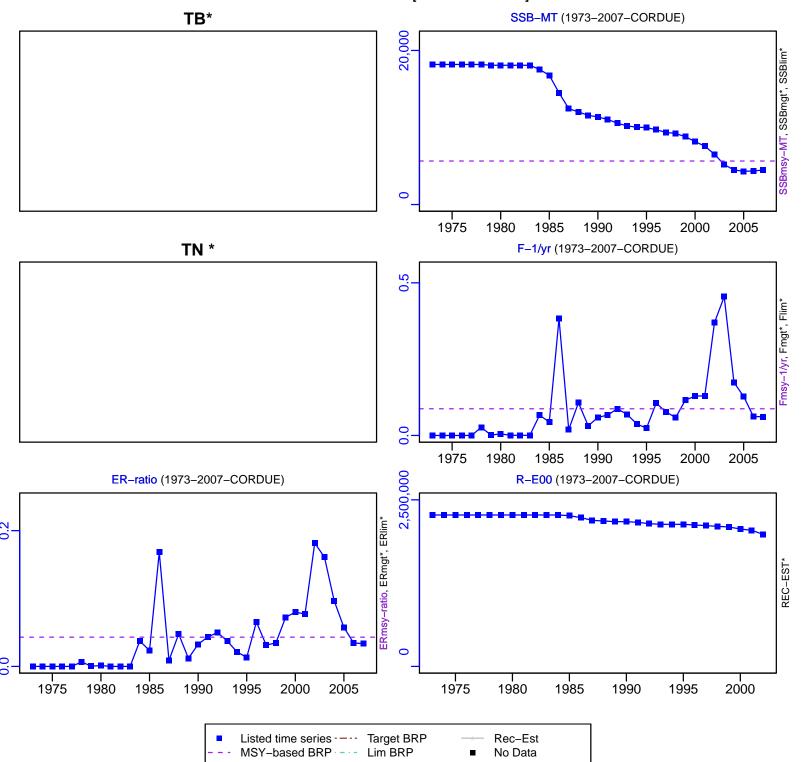


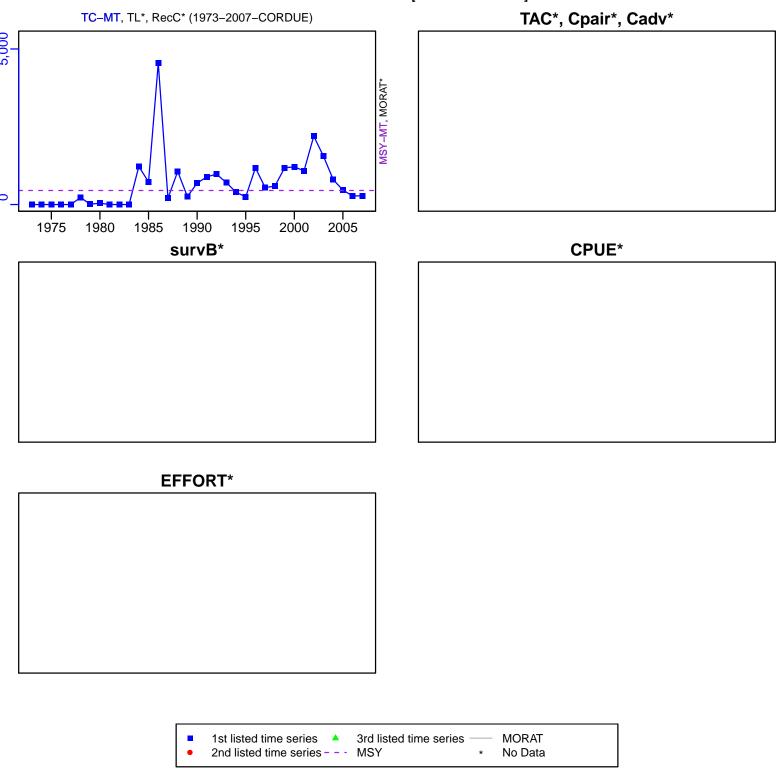
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOSLD-1973-2007-CORDUE		
Area Southland			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2007	5217	
Fmsy	Fmsy-1/yr	2007	0.08	
ERmsy	ERmsy-ratio	2007	0.04	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	16,829	
MSY	MSY-MT	2007	421	
М	M-1/yr	2007	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2007	4140	Both	25+
TN	-	-	-	-	-
R	R-E00	2007	1,980,000	-	5
F	F-1/yr	2007	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	260		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	0.79		
F/Fmsy	FdivFmsy-dimensionless	2007	0.72		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.78		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



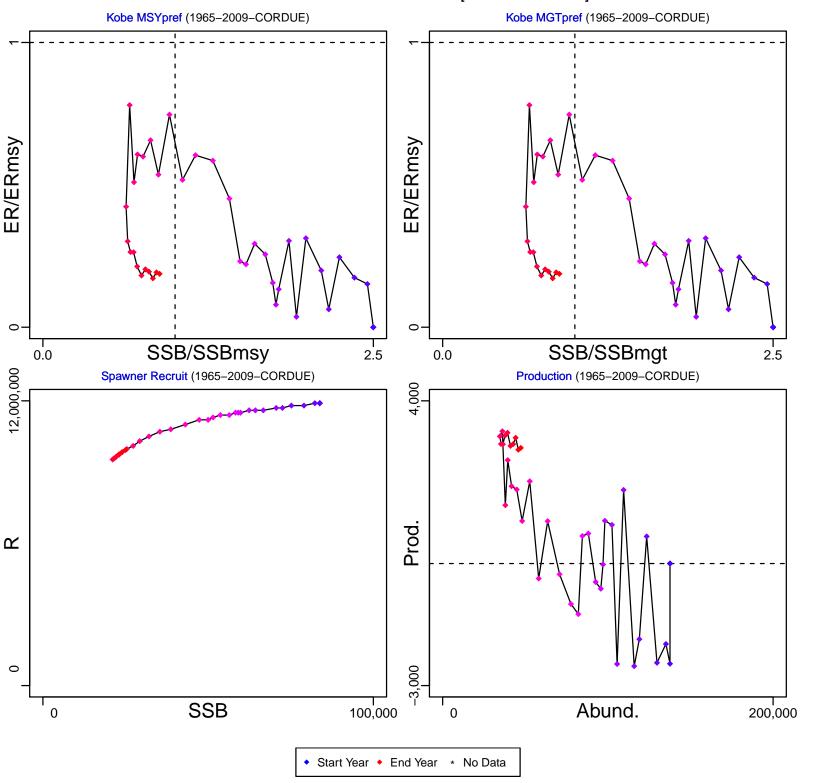


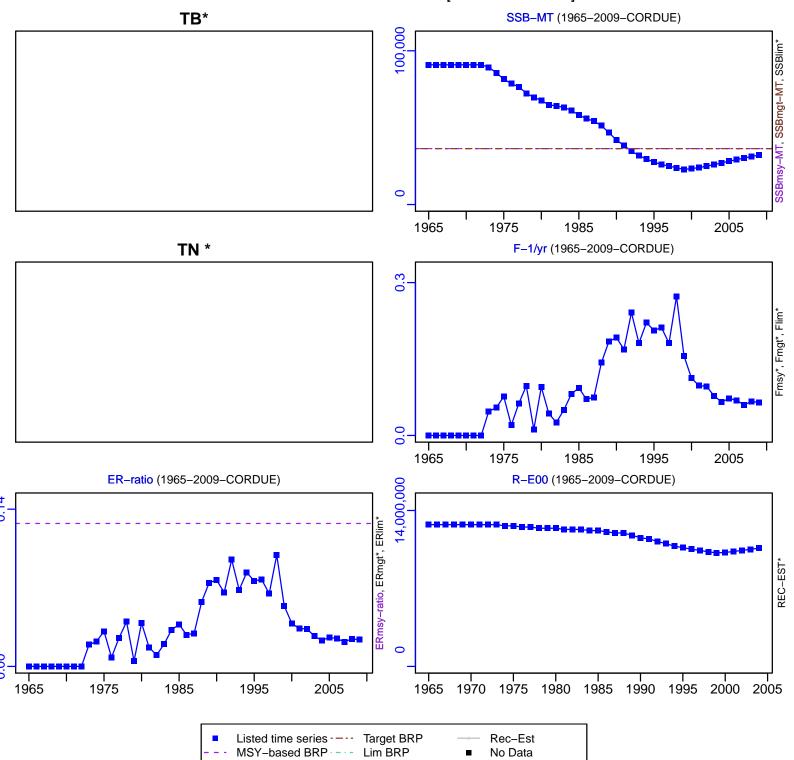


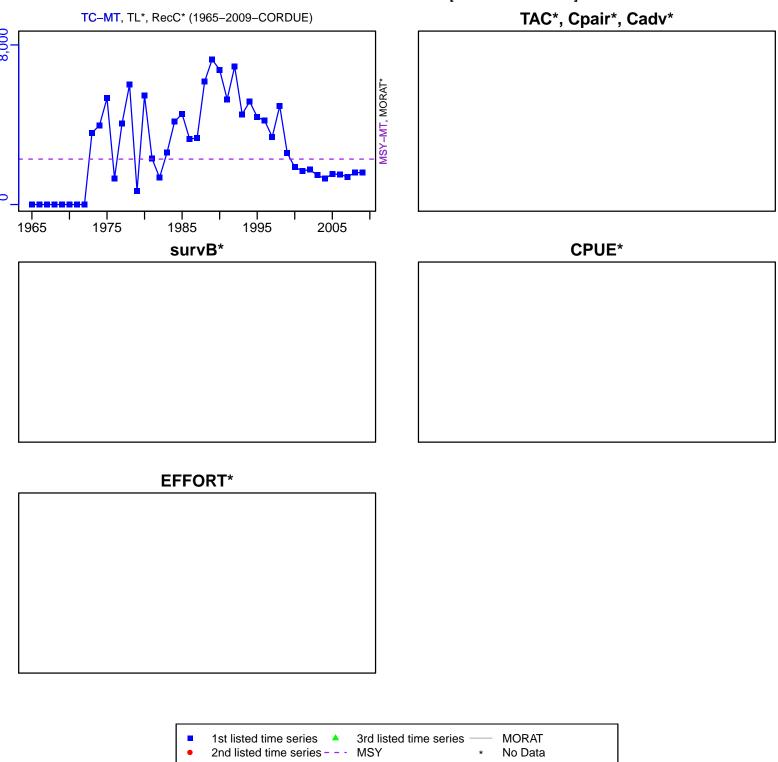
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOWECR-1965-2009-CORDUE		
Area West end of Chatham Rise			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2009	18,158	
SSBmsy	SSBmsy-MT	2009	33,522	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2009	0.12	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2009	33,522	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2009	83,805	
MSY	MSY-MT	2009	2179	
М	M-1/yr	2009	0.06	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2009	29,600	Both	25+
TN	-	-	-	-	-
R	R-E00	2009	9,930,000	-	5
F	F-1/yr	2009	0	-	-
ER	ER-ratio	2009	0	-	-
TC	TC-MT	2009	1530		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.88		
F/Fmsy	FdivFmsy-dimensionless	2009	0.49		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.19		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.88		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







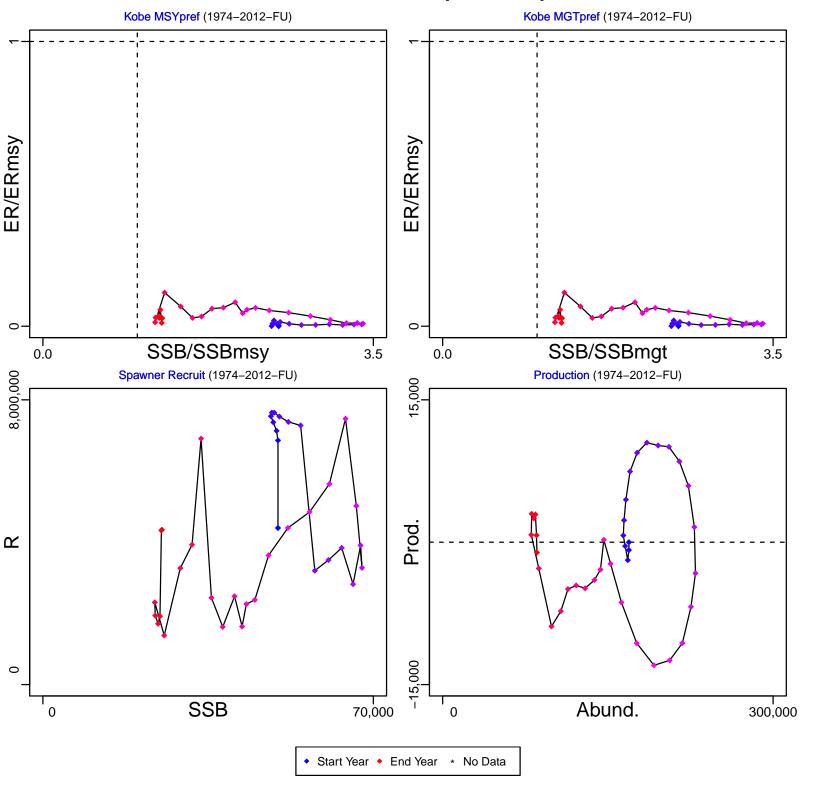
# **Southern hake Chatham Rise [SOUTHHAKECR]**

Metadata				
Scientific Name	Merluccius australis			
Current Assess ID	NIWA-SOUTHHAKECR-1974-2012-FU			
Area	Chatham Rise			
Management Authority	Ministry of Fisheries, New Zealand national management			
Assessor	National Institute of Water and Atmospheric Research			
Asmts in RAM	2012, 2010			

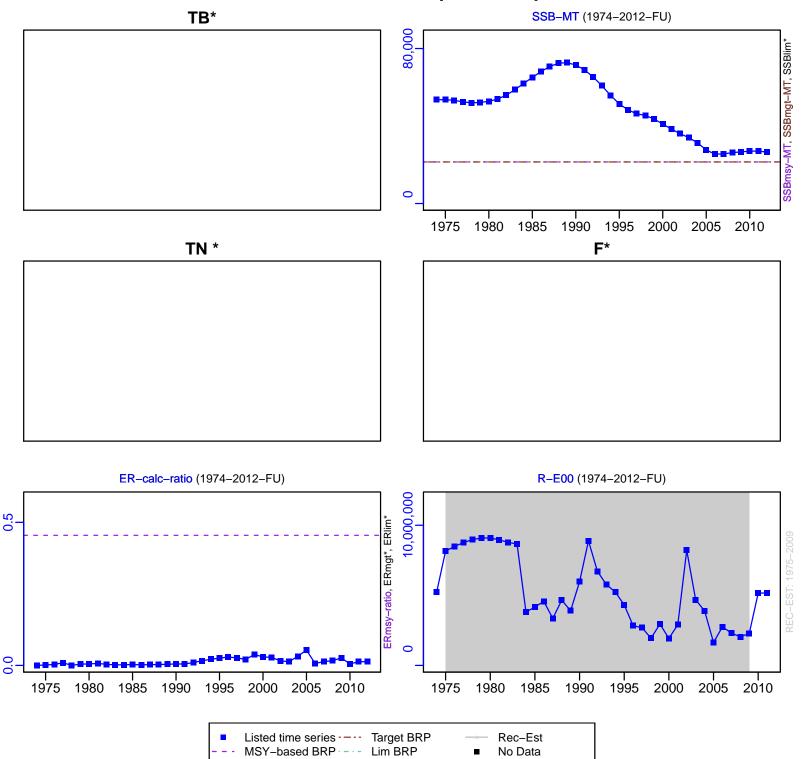
Reference Points						
Туре	ID	D Asmt Year				
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2012	19,938			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2012	0.39			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2012	19,938			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	TB0-MT	2010	88,920			
SSB0	SSB0-MT	2012	49,845			
MSY	MSY-MT	2012	4144			
M	M-1/yr	2012	0.19			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2012	24,600	-	1 to 30		
TN	-	-	-	-	-		
R	R-E00	2012	4,350,000	Both	-		
F	-	-	-	-	-		
ER	ER-calc-ratio	2012	0	-	-		
TC	TC-MT	2012	950				
TL	TL-MT	2012	161				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.23				
F/Fmsy	-	-	-				
ER/ERmsy	ER-calc-ratio/ERmsy-ratio	2012	0.03				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.23				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

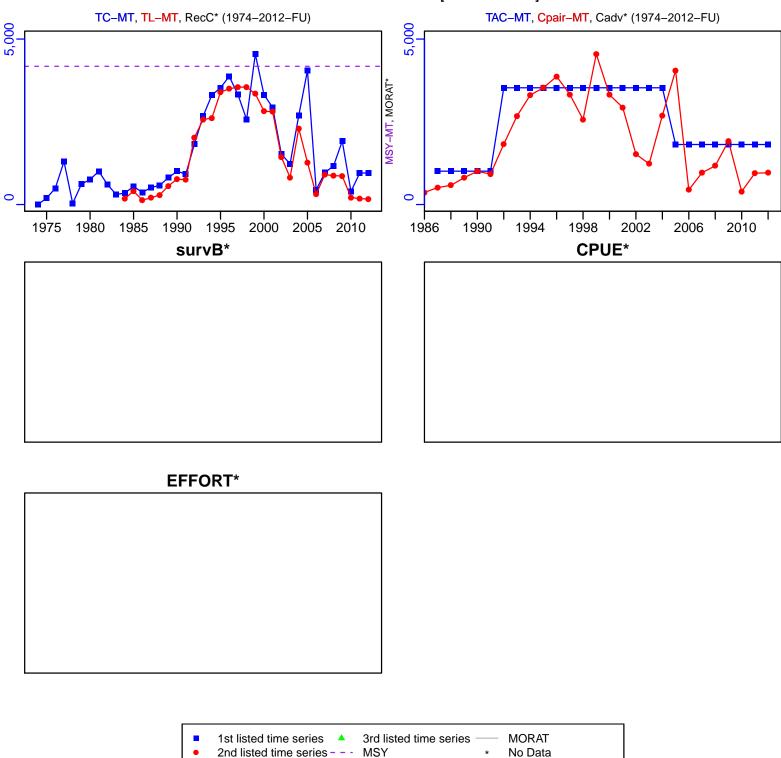
## Southern hake Chatham Rise [SOUTHHAKECR]



## Southern hake Chatham Rise [SOUTHHAKECR]



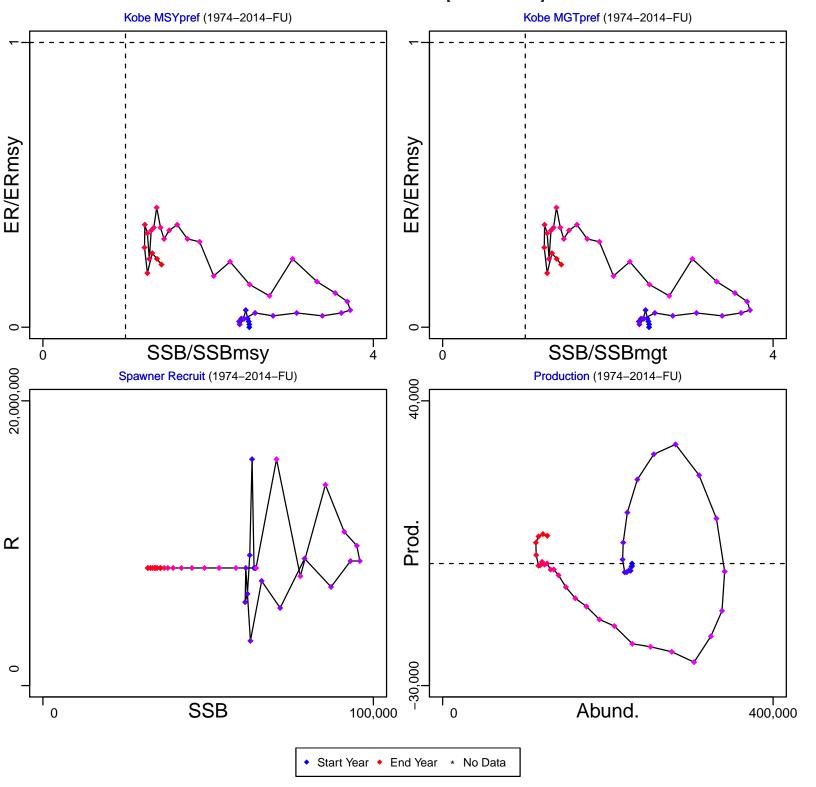
## Southern hake Chatham Rise [SOUTHHAKECR]

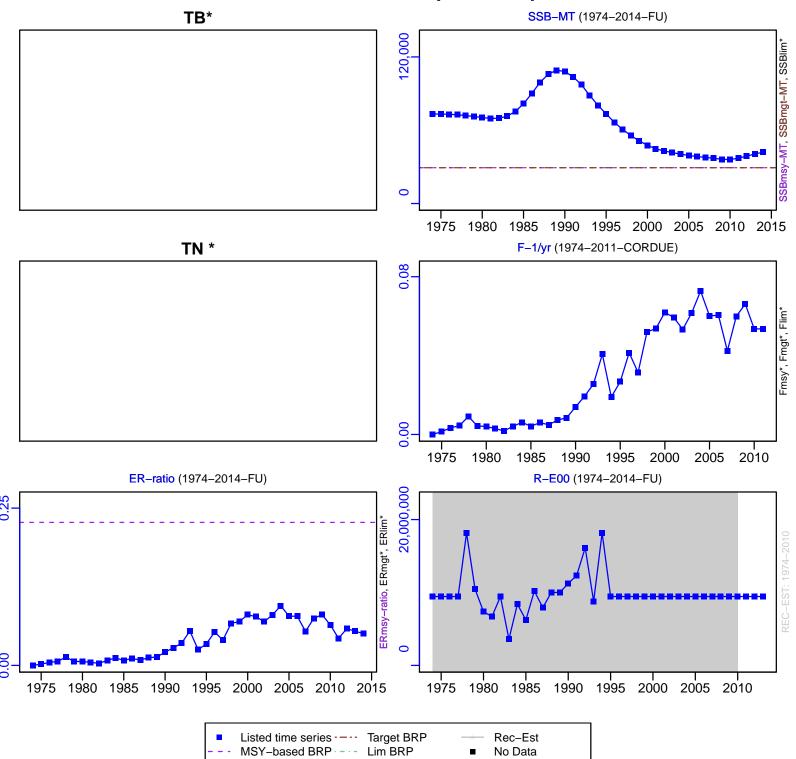


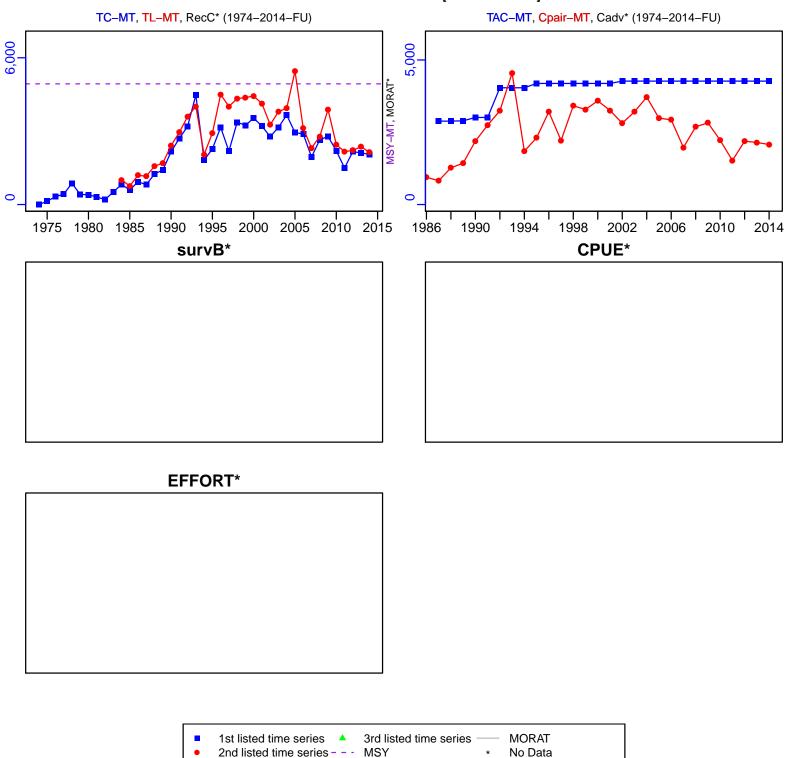
Metadata			
Scientific Name	Merluccius australis		
Current Assess ID	NIWA-SOUTHHAKESA-1974-2014-FU		
Area Sub-Antarctic			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2011, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2011	20,851	
SSBmsy	SSBmsy-MT	2014	25,774	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2014	0.21	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2014	25,774	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2014	64,436	
MSY	MSY-MT	2014	4341	
М	M-1/yr	2014	0.29	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2014	37,000	-	1 to 30
TN	-	-	-	-	-
R	R-E00	2014	8,260,000	Both	-
F	F-1/yr	2011	0	-	-
ER	ER-ratio	2014	0	Both	-
TC	TC-MT	2014	1800		•
TL	TL-MT	2014	1880		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.44		
F/Fmsy	FdivFmsy-dimensionless	2011	0.11		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.44		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



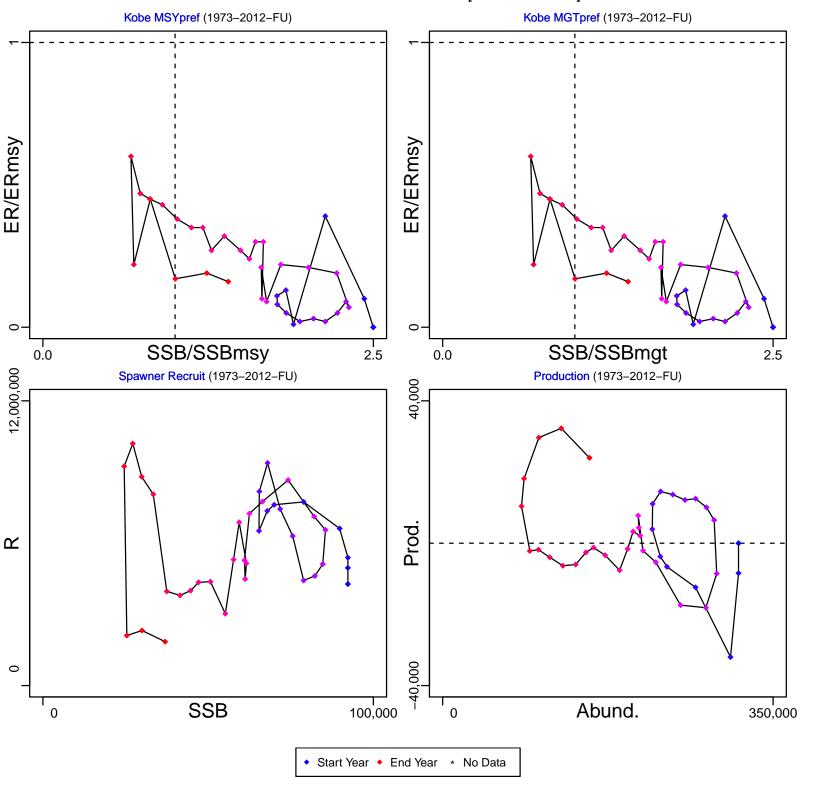


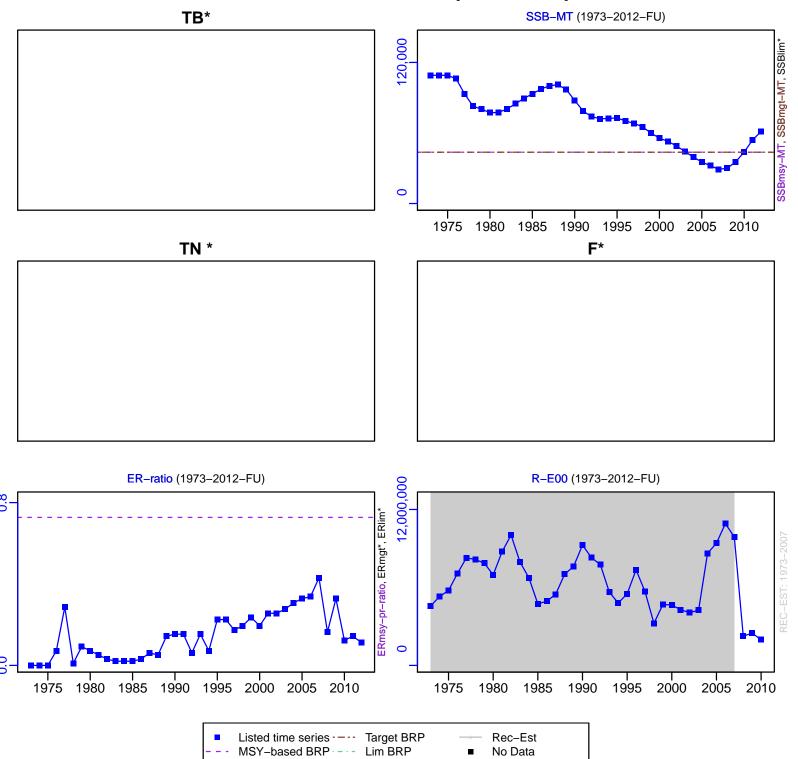


Metadata			
Scientific Name	Merluccius australis		
Current Assess ID	NIWA-SOUTHHAKEWCSI-1973-2012-FU		
Area West Coast South Island			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2012		

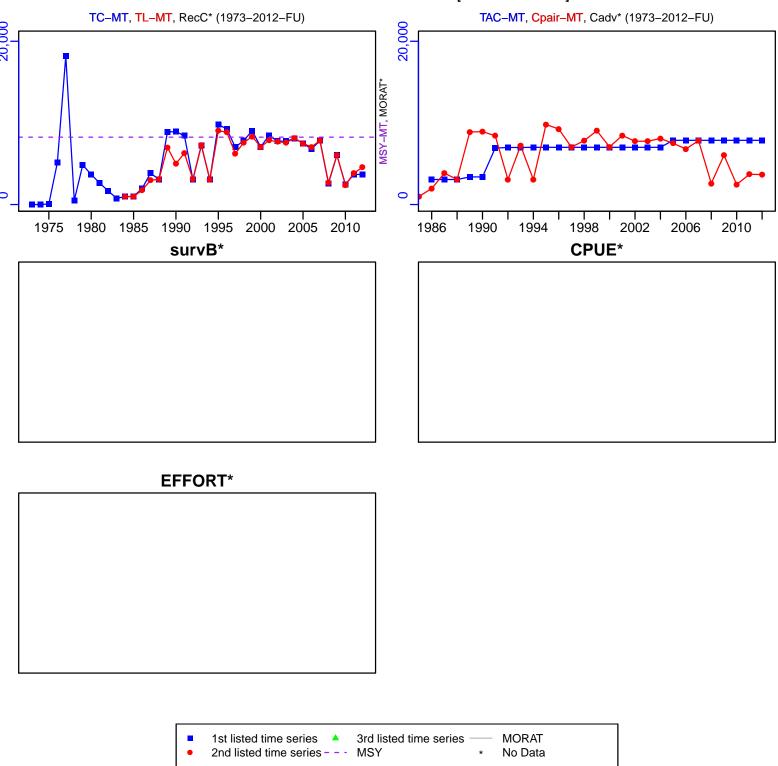
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2012	36,930
Fmsy	-	-	-
ERmsy	ERmsy-pr-ratio	2012	0.71
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	36,930
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2012	92,326
MSY	MSY-MT	2012	8077
М	M-1/yr	2012	0.19
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	51,800	-	1 to 30
TN	-	-	-	-	-
R	R-E00	2012	1,850,000	Both	-
F	-	-	-	-	-
ER	ER-ratio	2012	0	-	-
TC	TC-MT	2012	3600		
TL	TL-MT	2012	4460		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.4		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.16		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.4		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data

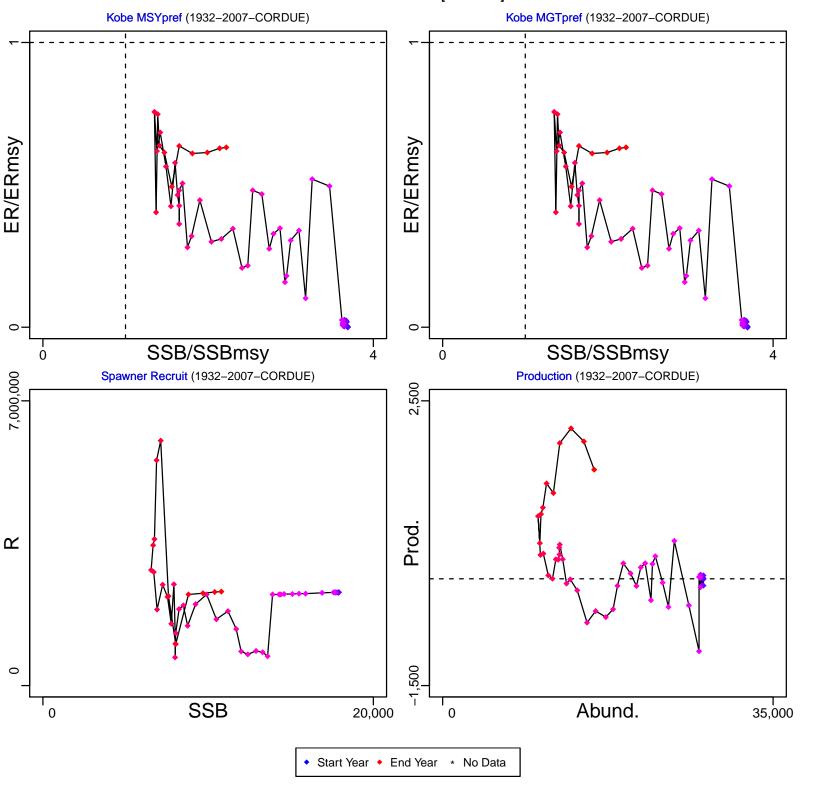


# Tarakihi New Zealand [TARAKNZ]

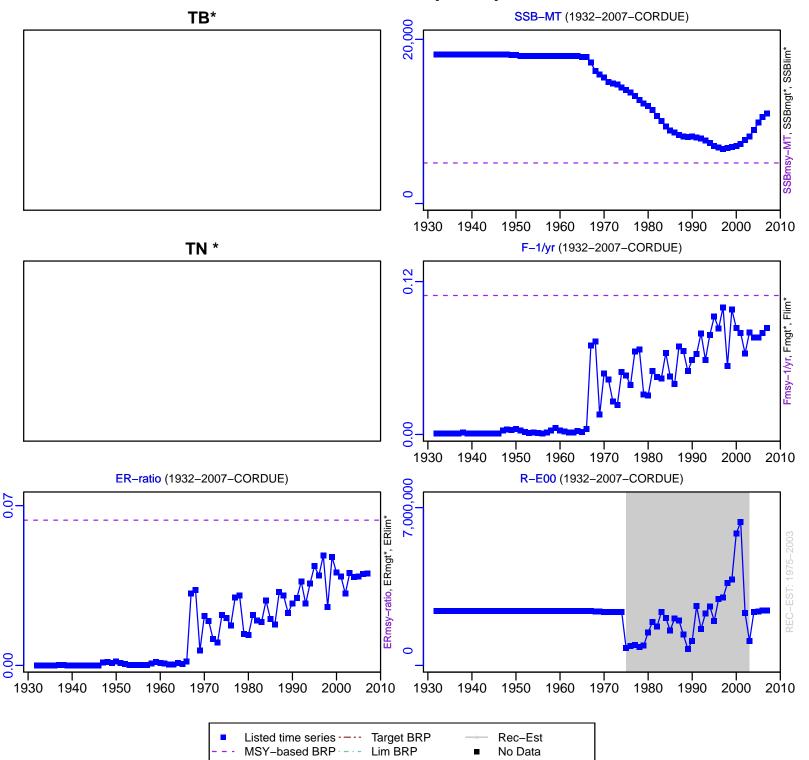
Metadata			
Scientific Name	Nemadactylus macropterus		
Current Assess ID NIWA-TARAKNZ-1932-2007-CORDUE			
Area Sub-Antarctic			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2007	4864	
Fmsy	Fmsy-1/yr	2007	0.1	
ERmsy	ERmsy-ratio	2007	0.06	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	17,950	
MSY	MSY-MT	2007	682	
M	M-1/yr	2007	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

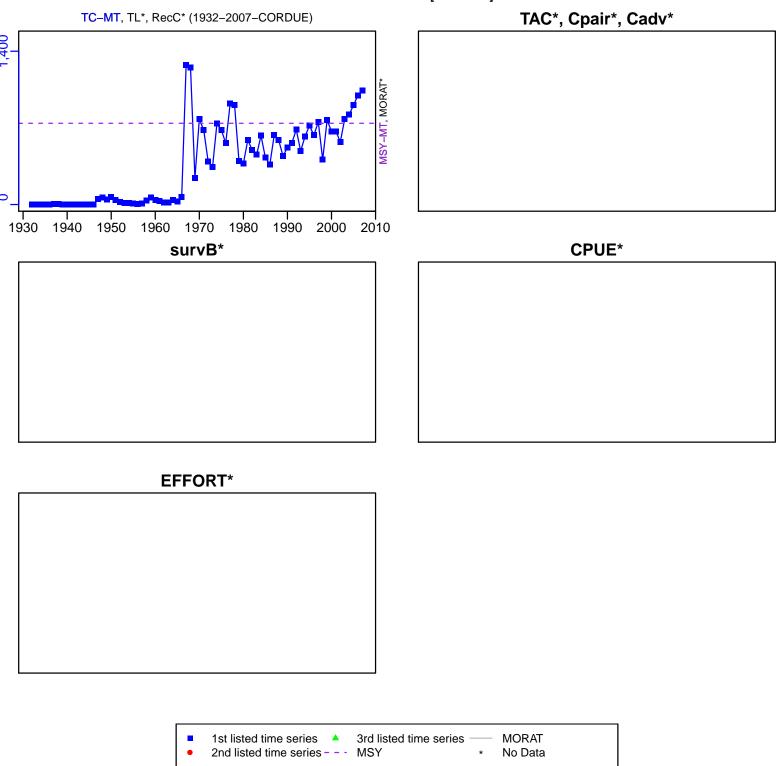
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2007	10,800	Both	-
TN	-	-	-	-	-
R	R-E00	2007	2,310,000	-	0
F	F-1/yr	2007	0	-	-
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	957		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	2.22		
F/Fmsy	FdivFmsy-dimensionless	2007	0.77		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.63		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Tarakihi New Zealand [TARAKNZ]



### Tarakihi New Zealand [TARAKNZ]



Metadata			
Scientific Name	Pseudocaranx dentex		
Current Assess ID	NZMFishINSHOREWG-TREVALLYTRE7-1944-2014-LANGLEY		
Area New Zealand Areas TRE 7			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Inshore Working Group		
Asmts in RAM	2005, 2014		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	8936
Fmsy	Fmsy-1/yr	2005	0.11
ERmsy	ERmsy-ratio	2005	0.08
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	8936
Fmgt	Fmgt-1/yr	2014	0.09
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2014	22,339
MSY	MSY-MT	2014	1818
M	M-1/yr	2014	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2005	28,200	-	1
SSB	SSB-MT	2014	11,500	Females	4 to 40+
TN	-	-	-	-	-
R	R-E00	2014	3,530,000	Both	0
F	F-1/yr	2005	0	-	-
ER	ER-calc-ratio	2014	0	-	-
TC	TC-MT	2014	1530		
TL	TL-MT	2014	1440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.29		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	0.83		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	1.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.29		
F/Fmgt	FdivFmgt-dimensionless	2014	0.68		
ER/ERmgt	-	-	-		

