# **New Zealand Stocks**

v4.61 (Apr-02-2023)

### Not present Present Preferred

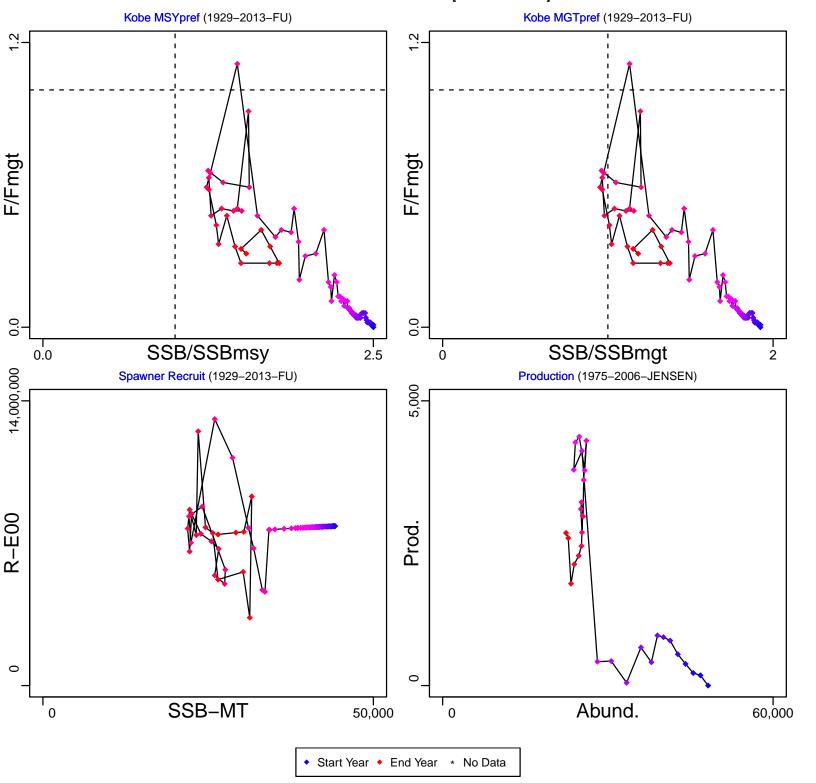
		Time Ser	ies Types	
Stock	B/Bmsy	U/Umsy		U/Umgt
AUSSALMONNZ [Australian salmon New Zealand]	TB SSB	ER F	TB SSB	ER F
2. BKCDLFENI [Black cardinalfish East coast of North Island]	TB SSB	ER F	TB SSB	ER F
3. BLACKOREOPR [Black oreo Pukaki Rise]	TB SSB	ER F	TB SSB	ER F
4. BLACKOREOWECR [Black oreo West end of Chatham Rise]	TB SSB	ER F	TB SSB	ER F
5. BNSNZ [Bluenose New Zealand]	TB SSB	ER F	TB SSB	ER F
6. DOYSFS [Dredge oyster Foveax Strait]	TB SSB	ER F	TB SSB	ER F
7. GEMFISHNZ [Common gemfish New Zealand]	TB SSB	ER F	TB SSB	ER F
8. GSTRGZRSTA7 [Giant stargazer NZ Area STA7]	TB SSB	ER F	TB SSB	ER F
9. HOKIENZ [Hoki Eastern New Zealand]	TB SSB	ER F	TB SSB	ER F
10. HOKIWNZ [Hoki Western New Zealand]	TB SSB	ER F	TB SSB	ER F
11. NZLINGLIN3-4 [Ling New Zealand Areas LIN 3 and 4]	TB SSB	ER F	TB SSB	ER F
12. NZLINGLIN5-6 [Ling New Zealand Areas LIN 5 and 6]	TB SSB	ER F	TB SSB	ER F
13. NZLINGLIN6b [Ling New Zealand Areas LIN 6b]	TB SSB	ER F	TB SSB	ER F
14. NZLINGLIN72 [Ling New Zealand Areas LIN 72]	TB SSB	ER F	TB SSB	ER F
15. NZLINGLIN7WC [Ling New Zealand Areas LIN 7WC-WCSI]	TB SSB	ER F	TB SSB	ER F
16. NZSNAPNZ1BOP-HAGU [New Zealand snapper New Zealand SNA	TB SSB	ER F	TB SSB	ER F
1 Bay of Plenty and Hauraki Gulf]				
17. NZSNAPNZ1ENLD [New Zealand snapper New Zealand SNA 1 east	TB SSB	ER F	TB SSB	ER F
Northland]				
18. NZSNAPNZ7 [New Zealand snapper New Zealand SNA 7]	TB SSB	ER F	TB SSB	ER F
19. NZSNAPNZ8 [New Zealand snapper New Zealand Area 8 (Auckland	TB SSB	ER F	TB SSB	ER F
and Central West)]				
20. OROUGHYESCR [Orange roughy East and South Chatham Rise]	TB SSB	ER F	TB SSB	ER F
21. OROUGHYNWCR [Orange roughy Northwest Chatham Rise]	TB SSB	ER F	TB SSB	ER F
22. OROUGHYNZ7A [Orange roughy New Zealand Challenger Plateau]	TB SSB	ER F	TB SSB	ER F
23. OROUGHYNZMEC [Orange roughy New Zealand Mid East Coast]	TB SSB	ER F	TB SSB	ER F
24. PAUANPAU5A [Paua NZ Area North PAUA 5A]	TB SSB	ER F	TB SSB	ER F
25. PAUAPAU5B [Paua New Zealand Area PAU 5B (Stewart Island)]	TB SSB	ER F	TB SSB	ER F
26. PAUAPAU5D [Paua New Zealand Area PAU 5D (Otago)]	TB SSB	ER F	TB SSB	ER F
27. PAUAPAU7 [Paua New Zealand Area PAU 7 (Marlborough)]	TB SSB	ER F	TB SSB	ER F
28. PAUASPAU5A [Paua NZ Area South PAUA 5A]	TB SSB	ER F	TB SSB	ER F
29. RROCKLOBSTERCRA1 [Red rock lobster New Zealand Area CRA1]	TB SSB	ER F	TB SSB	ER F
30. RROCKLOBSTERCRA2 [Red rock lobster New Zealand Area CRA2]	TB SSB	ER F	TB SSB	ER F
31. RROCKLOBSTERCRA3 [Red rock lobster New Zealand Area CRA3]	TB SSB	ER F	TB SSB	ER F
32. RROCKLOBSTERCRA4 [Red rock lobster New Zealand Area CRA4]	TB SSB	ER F	TB SSB	ER F
33. RROCKLOBSTERCRA5 [Red rock lobster New Zealand Area CRA5]	TB SSB	ER F	TB SSB	ER F
34. RROCKLOBSTERCRA7 [Red rock lobster New Zealand Area CRA7]	TB SSB	ER F	TB SSB	ER F
35. RROCKLOBSTERCRA8 [Red rock lobster New Zealand Area CRA8]	TB SSB	ER F	TB SSB	ER F
36. SBWHITACIR [Southern blue whiting Campbell Island Rise]	TB SSB	ER F	TB SSB	ER F

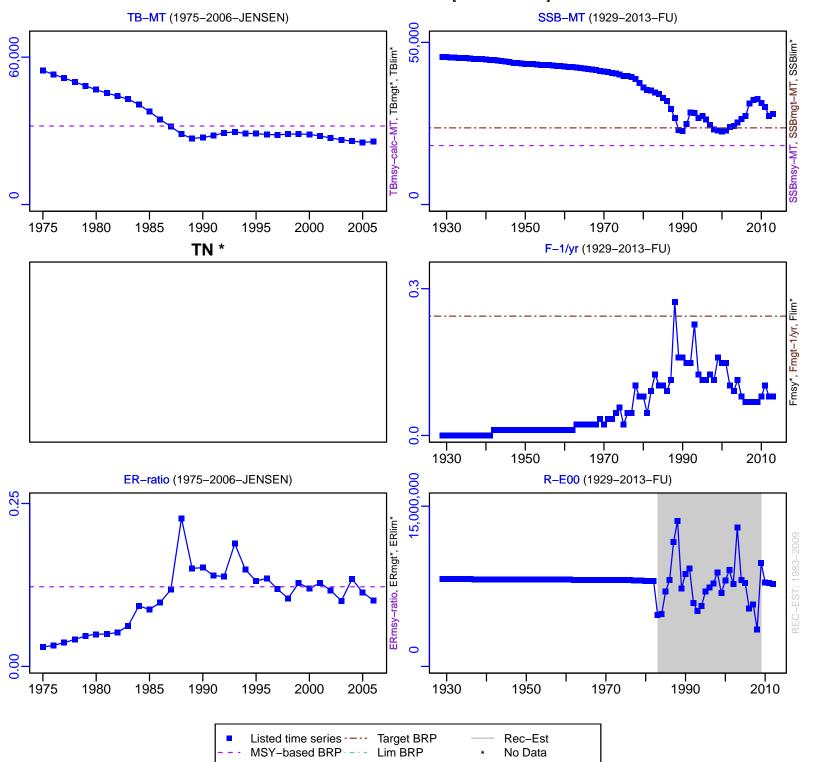
37. SCMPBP [Scampi Bay of Plenty]	TB SSB	ER F	TB SSB	ER F
38. SCMPMB [Scampi Mernoo Bank]	TB SSB	ER F	TB SSB	ER F
39. SCMPSCI6A [Scampi SCI 6A (Auckland Islands)]	TB SSB	ER F	TB SSB	ER F
40. SCMPWHB [Scampi Wairarapa/Hawke Bay]	TB SSB	ER F	TB SSB	ER F
41. SMOOTHOREOBP [Smooth oreo Bounty Plateau]	TB SSB	ER F	TB SSB	ER F
42. SMOOTHOREOCR [Smooth oreo Chatham Rise]	TB SSB	ER F	TB SSB	ER F
43. SMOOTHOREOEPR [Smooth oreo East Pukaki Rise]	TB SSB	ER F	TB SSB	ER F
44. SMOOTHOREOSLD [Smooth oreo Southland]	TB SSB	ER F	TB SSB	ER F
45. SMOOTHOREOWECR [Smooth oreo West end of Chatham Rise]	TB SSB	ER F	TB SSB	ER F
46. SOUTHHAKECR [Southern hake Chatham Rise]	TB SSB	ER F	TB SSB	ER F
47. SOUTHHAKESA [Southern hake Sub-Antarctic]	TB SSB	ER F	TB SSB	ER F
48. SOUTHHAKEWCSI [Southern hake West Coast South Island]	TB SSB	ER F	TB SSB	ER F
49. TARAKNZ [Tarakihi Sub-Antarctic]	TB SSB	ER F	TB SSB	ER F
50. TREVALLYTRE7 [Trevally New Zealand Areas TRE 7]	TB SSB	ER F	TB SSB	ER F

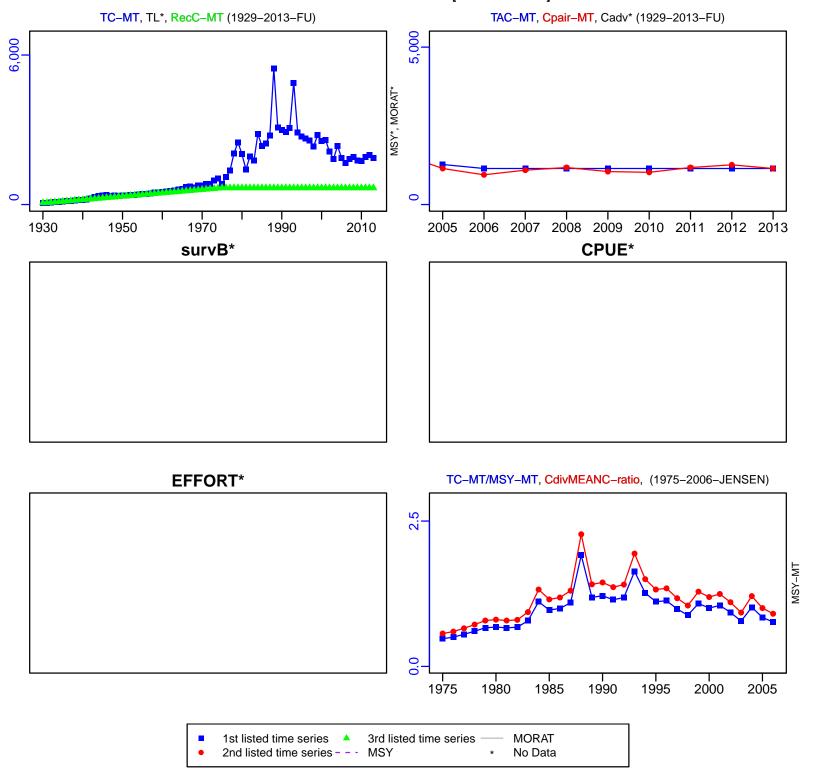
Metadata			
Scientific Name	Arripis trutta		
Current Assess ID	NIWA-AUSSALMONNZ-1929-2013-FU		
Area	New Zealand		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013, 2006		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2006	28,246
SSBmsy	SSBmsy-MT	2013	17,680
Fmsy	Fmsy-1/yr	2006	0.32
ERmsy	ERmsy-ratio	2006	0.119
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2013	22,984
Fmgt	Fmgt-1/yr	2013	0.215
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	0.07	Both	-
ER	ER-ratio	2006	0.099	-	-
TC	TC-MT	2013	1680		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2006	0.8		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.538		
F/Fmsy	F-1/yr/Fmsy-1/yr	2006	0.328		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	0.83		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.183		
F/Fmgt	FdivFmgt-dimensionless	2013	0.31		
ER/ERmgt	-	-	-		



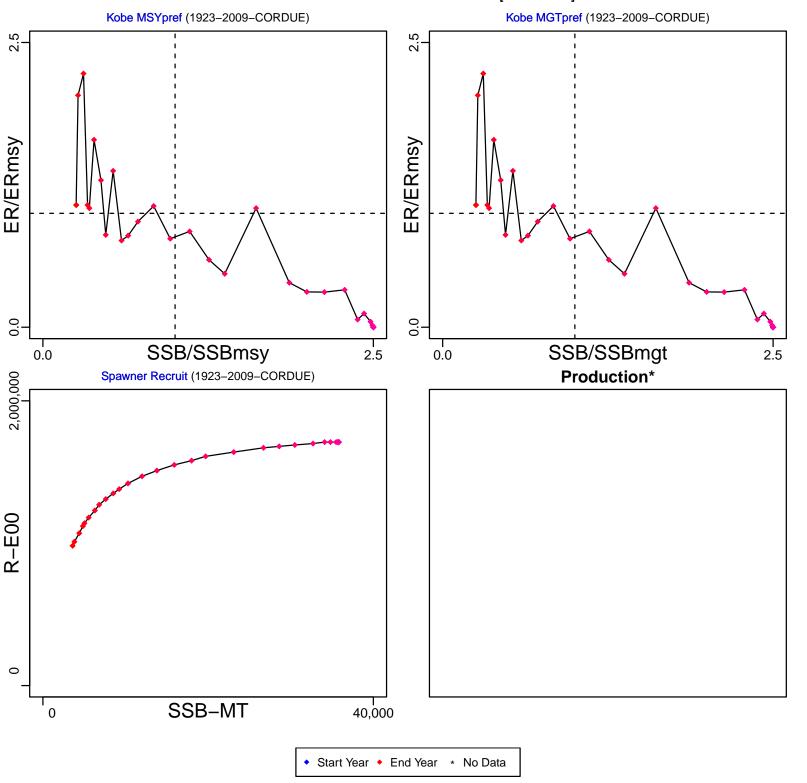


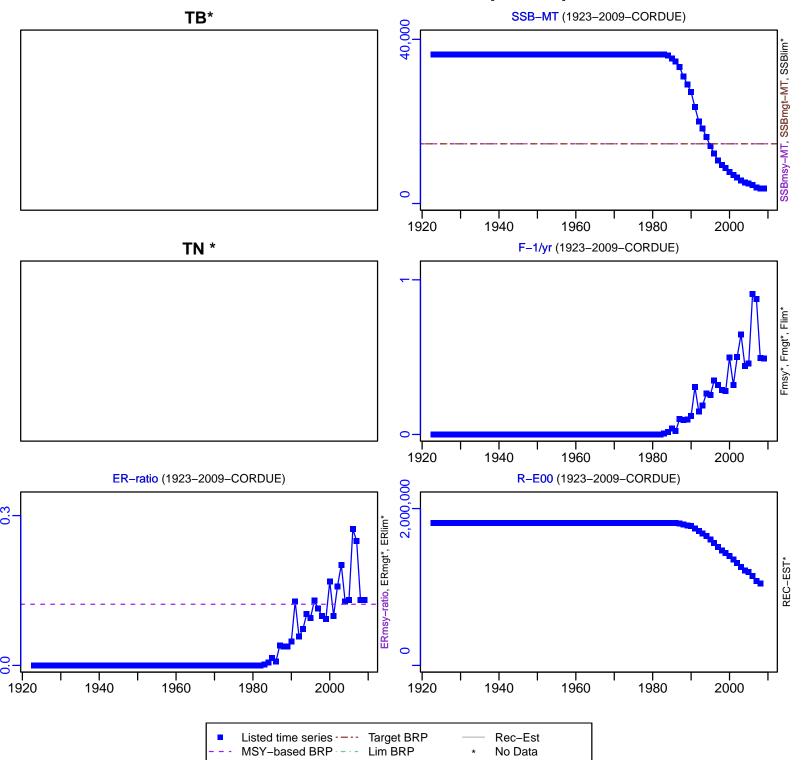


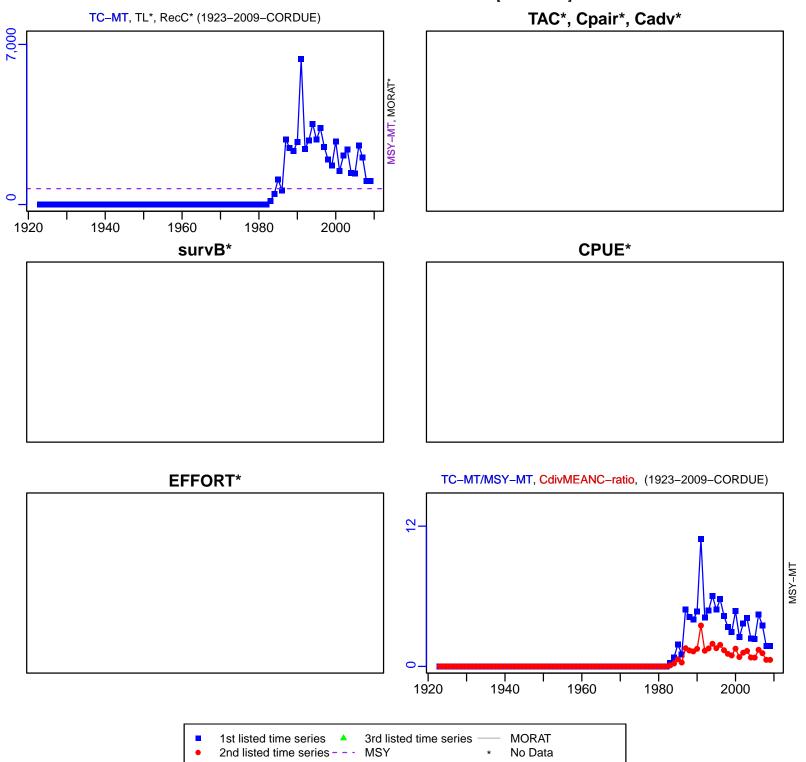
Metadata			
Scientific Name	Epigonus telescopus		
Current Assess ID	NIWA-BKCDLFENI-1923-2009-CORDUE		
Area	East coast of North Island		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009		

	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	0.457	-	-
ER	ER-ratio	2009	0.118	-	-
TC	TC-MT	2009	980		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.253		
F/Fmsy	FdivFmsy-dimensionless	2009	4.16		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	1.073		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.253		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



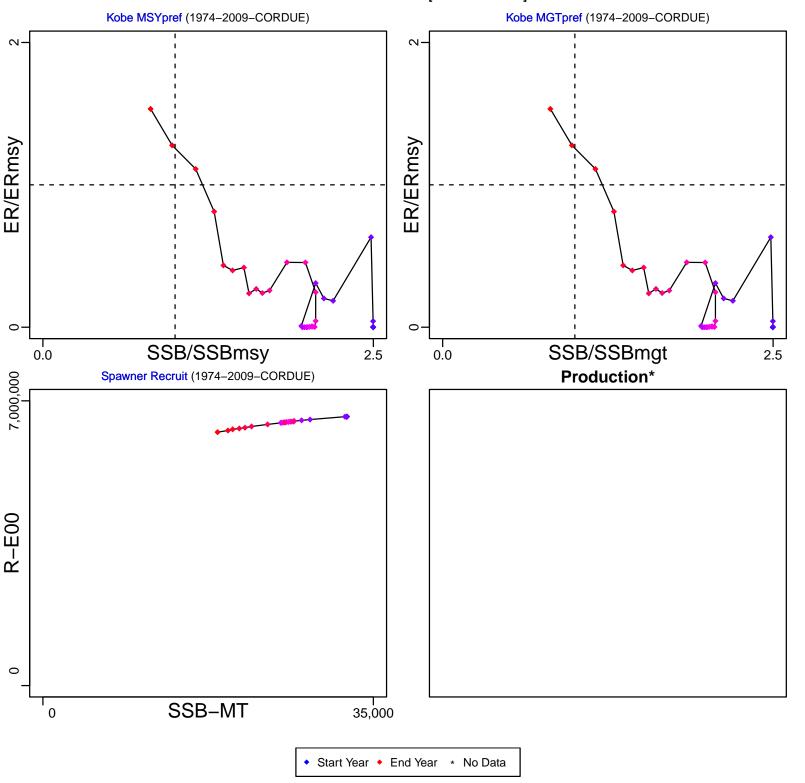


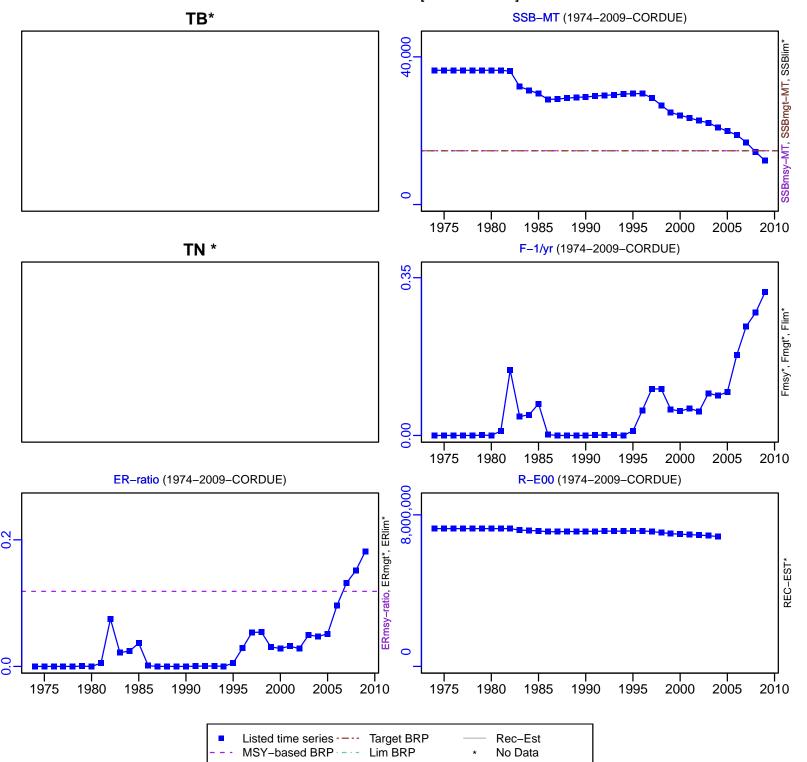


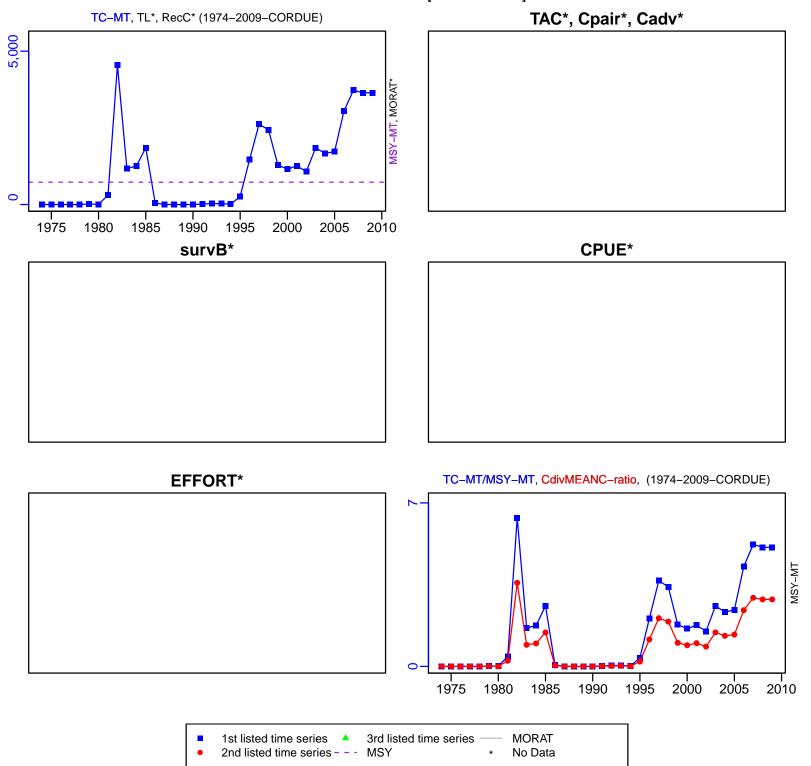
Metadata			
Scientific Name	Allocyttus niger		
Current Assess ID	NIWA-BLACKOREOPR-1974-2009-CORDUE		
Area	Pukaki Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009		

	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	0.301	-	-
ER	ER-ratio	2009	0.138	-	-
TC	TC-MT	2009	3350		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.815		
F/Fmsy	FdivFmsy-dimensionless	2009	3.5		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	1.533		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.815		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



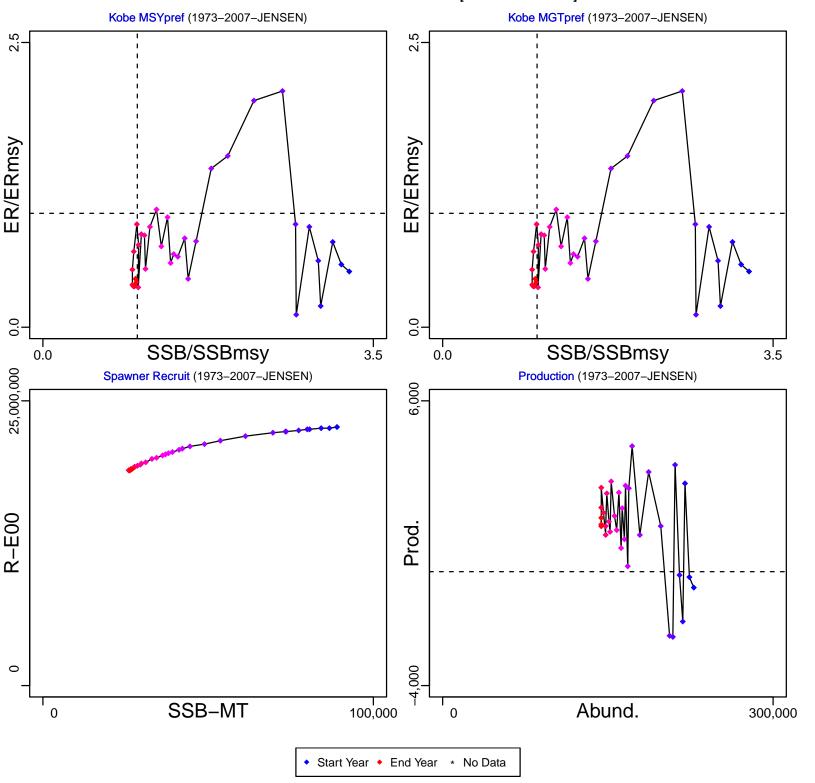


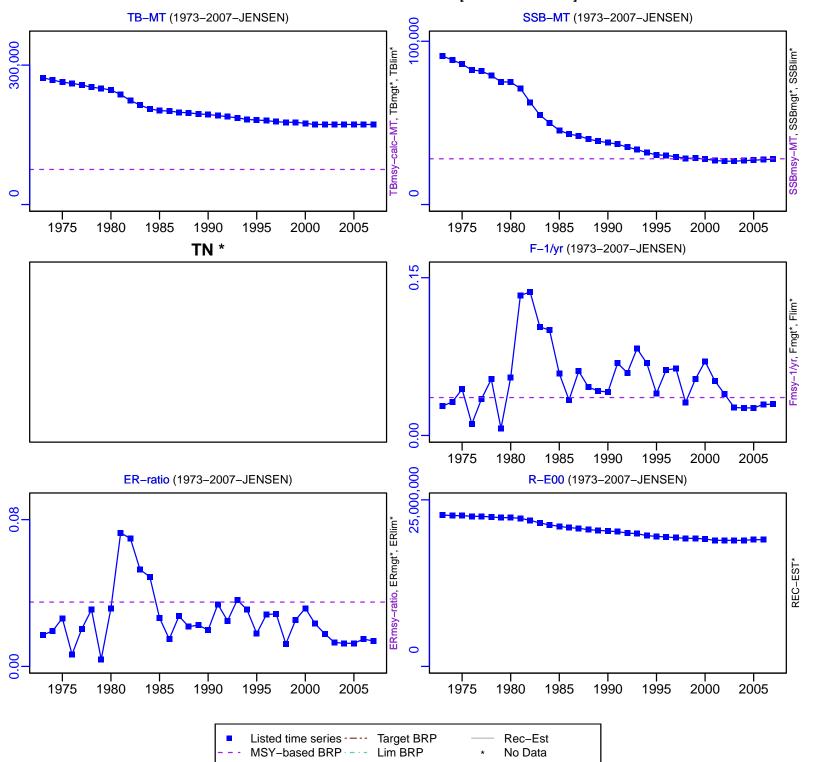


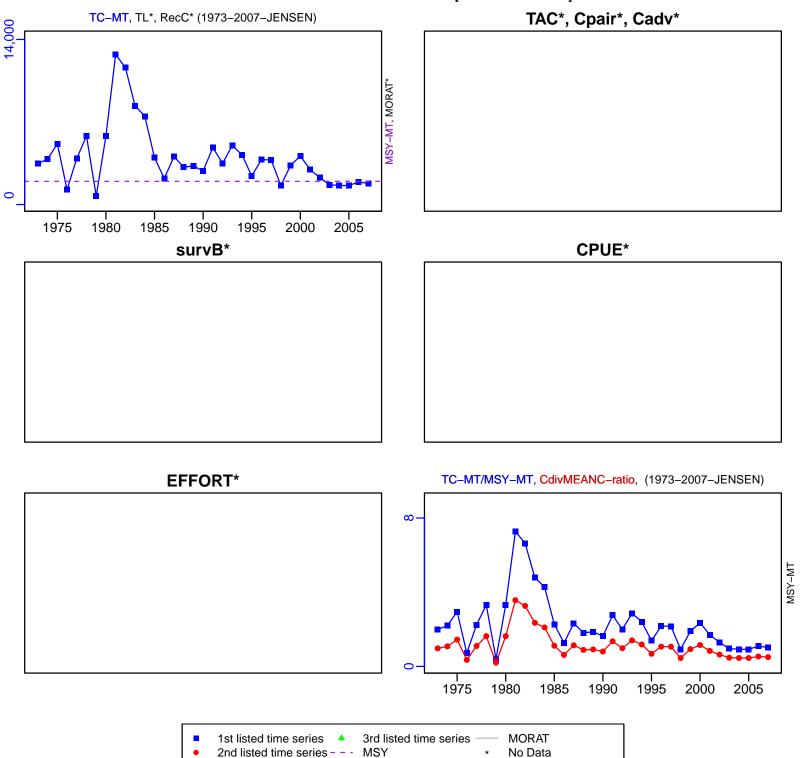
Metadata			
Scientific Name	Allocyttus niger		
Current Assess ID	NZMFishDEEPWATER-BLACKOREOWECR-1973-2007-JENSEN		
Area	West end of Chatham Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Deepwater Working Group		
Asmts in RAM	2007		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	63,082
SSBmsy	SSBmsy-MT	2007	27,427
Fmsy	Fmsy-1/yr	2007	0.034
ERmsy	ERmsy-ratio	2007	0.031
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	88,923
MSY	MSY-MT	2007	1947
М	M-1/yr	2007	0.044
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	Both	-
TN	-	-	-	-	-
R	R-E00	2007	$1.9 \times 10^{7}$	-	1
F	F-1/yr	2007	0.028	-	-
ER	ER-ratio	2007	0.012	-	-
TC	TC-MT	2007	1770		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	2.283		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	0.992		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.824		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.395		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





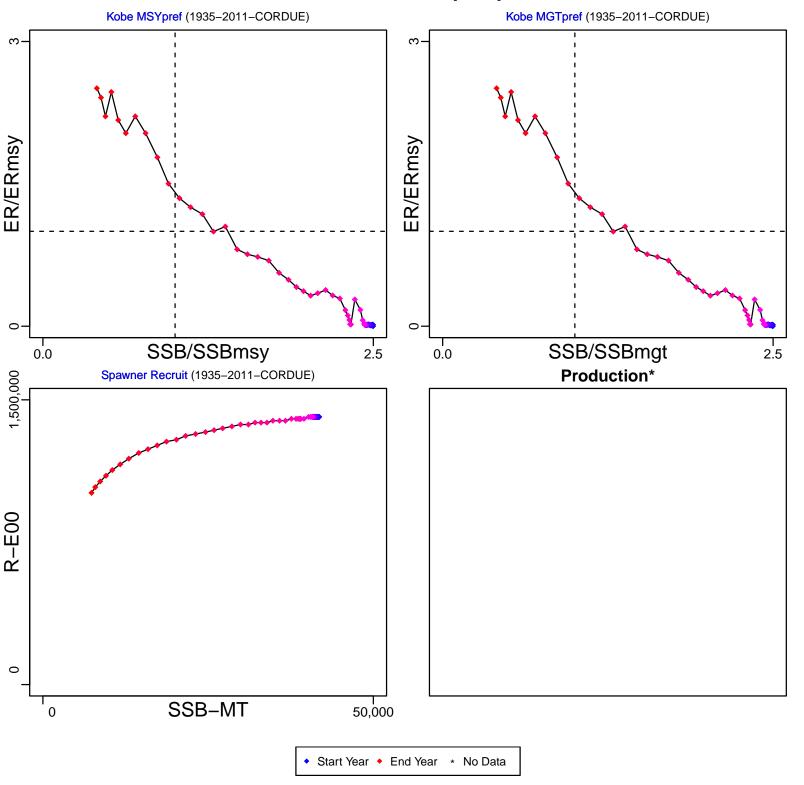


### Bluenose New Zealand [BNSNZ]

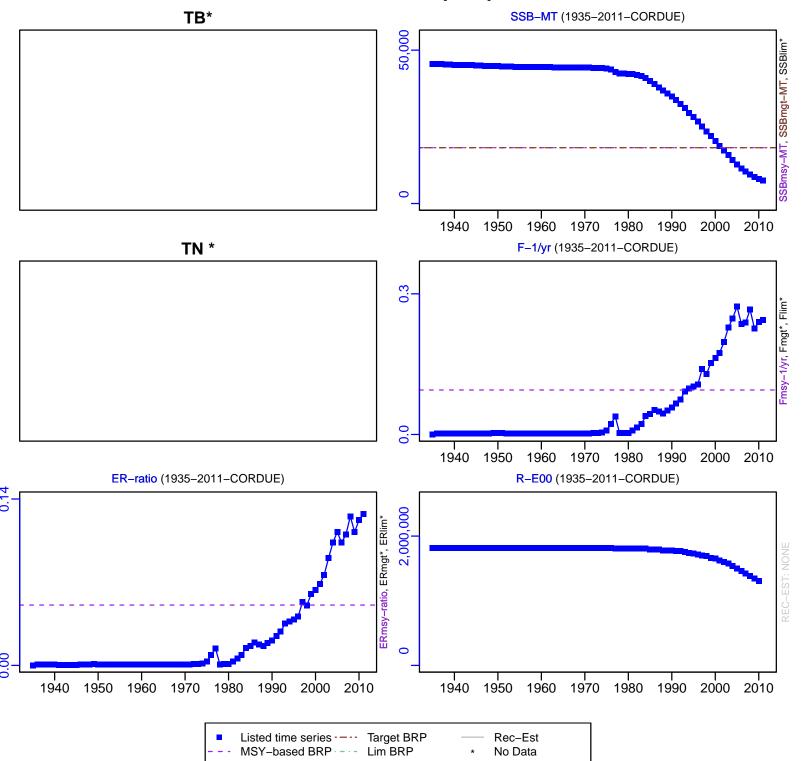
Metadata			
Scientific Name	Hyperoglyphe antarctica		
Current Assess ID	NZMFishINSHOREWG-BNSNZ-1935-2011-CORDUE		
Area New Zealand			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor Inshore Working Group			
Asmts in RAM	2011		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	23,867
SSBmsy	SSBmsy-MT	2011	16,737
Fmsy	Fmsy-1/yr	2011	0.08
ERmsy	ERmsy-ratio	2011	0.051
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	-	-	-

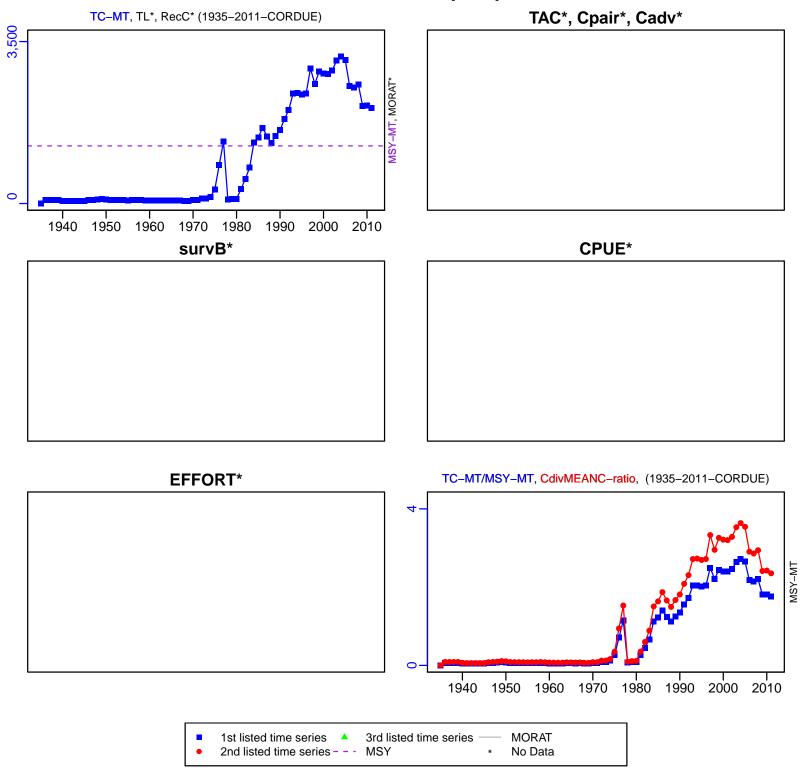
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2011	6830	Both	17+
TN	-	-	-	-	-
R	R-E00	2011	1,010,000	-	1
F	F-1/yr	2011	0.206	-	-
ER	ER-ratio	2011	0.127	-	-
TC	TC-MT	2011	2000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.408		
F/Fmsy	FdivFmsy-dimensionless	2011	2.71		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	2.507		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.408		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Bluenose New Zealand [BNSNZ]



#### Bluenose New Zealand [BNSNZ]

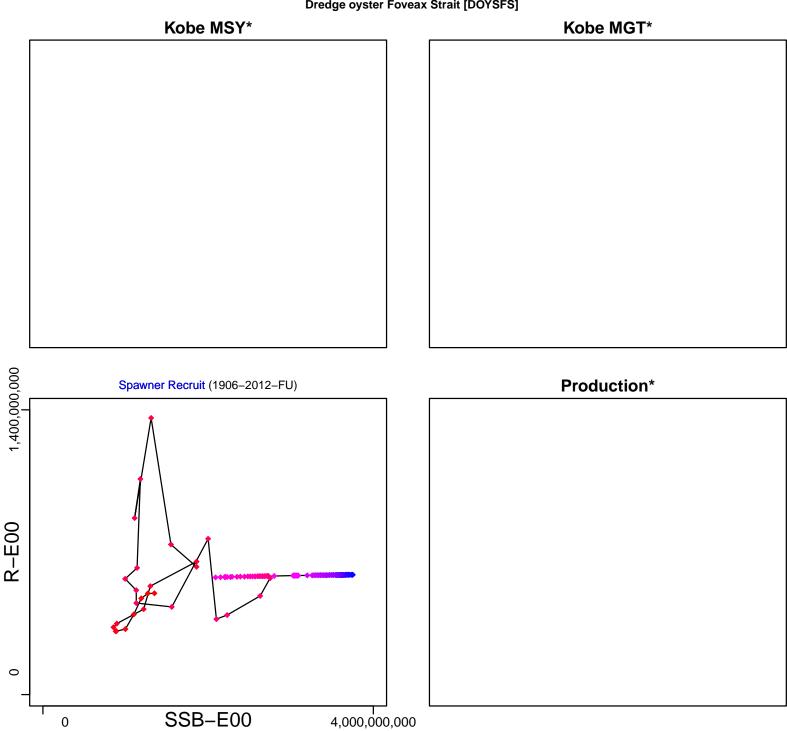


## **Dredge oyster Foveax Strait [DOYSFS]**

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		

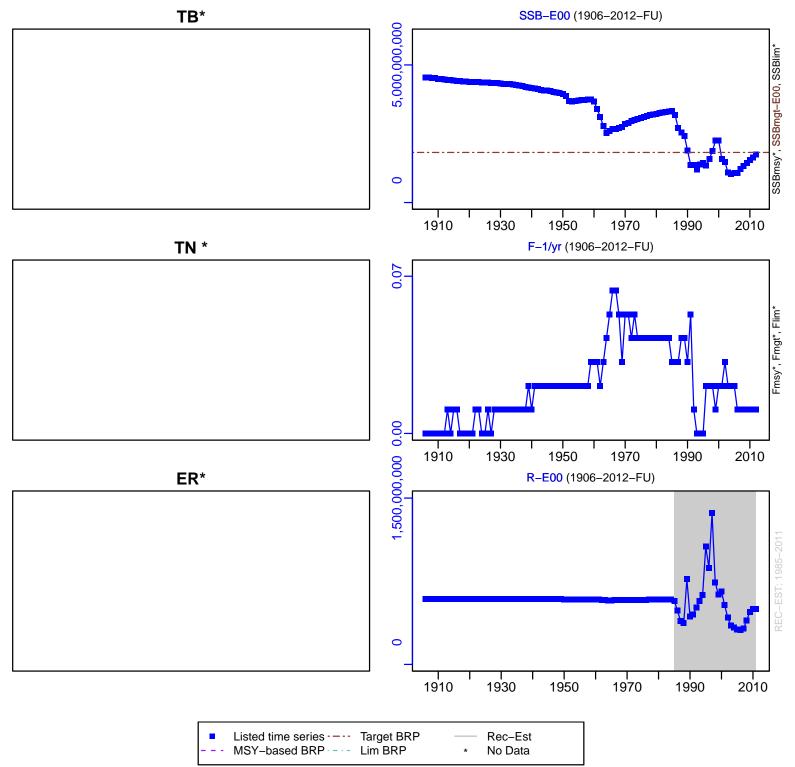
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-E00	2012	1,501,772,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2012	0.1
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

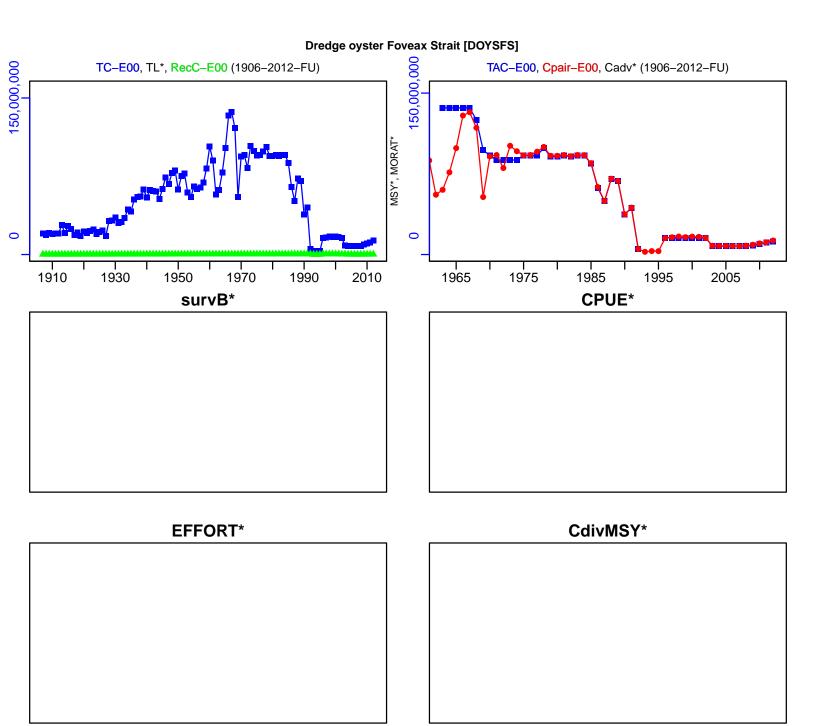
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2012	$1.44 \times 10^{9}$	-	-
TN	-	-	-	-	-
R	R-E00	2012	$4.98 \times 10^{8}$	Both	-
F	F-1/yr	2012	0.01	Both	-
ER	-	-	-	-	-
TC	TC-E00	2012	12,600,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSBdivSSBmgt-dimensionless	2012	0.9		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year ◆ End Year \* No Data

### Dredge oyster Foveax Strait [DOYSFS]

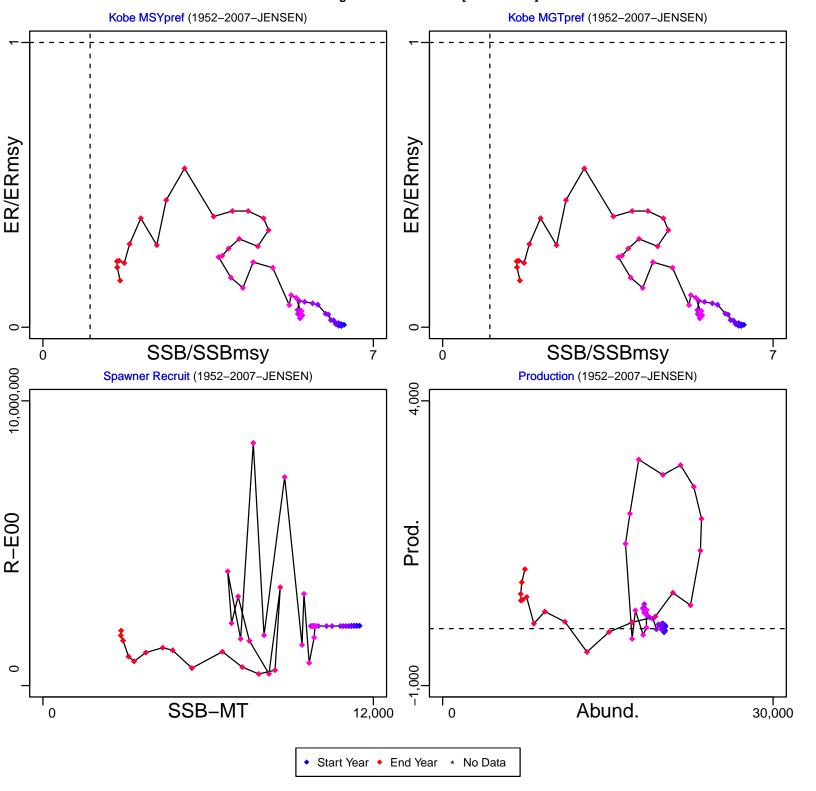


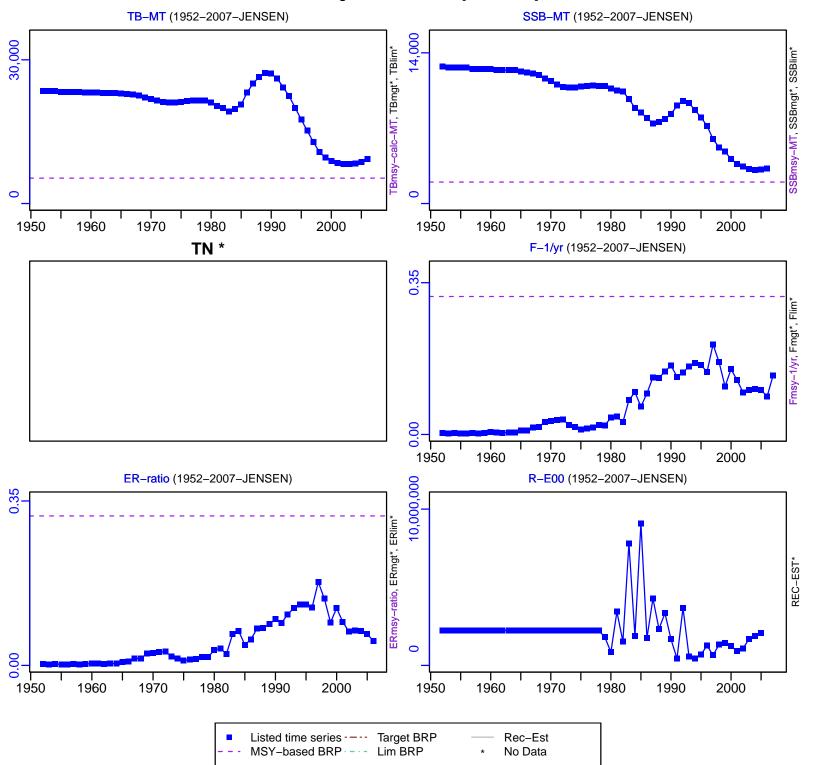


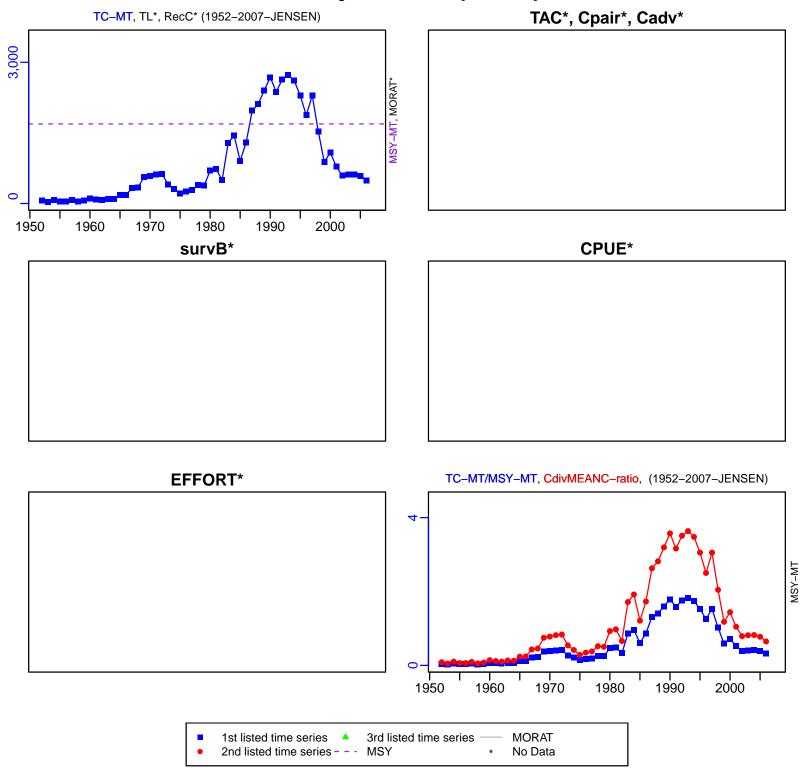
Metadata			
Scientific Name	Rexea solandri		
Current Assess ID	NZMFishMIDDEPTHSWG-GEMFISHNZ-1952-2007-JENSEN		
Area	New Zealand		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Middle Depths Working Group		
Asmts in RAM	2007		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	4565
SSBmsy	SSBmsy-MT	2007	1803
Fmsy	Fmsy-1/yr	2007	0.29
ERmsy	ERmsy-ratio	2007	0.314
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2007	11,485
MSY	MSY-MT	2007	1432
M	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	Both	-
TN	-	-	-	-	-
R	R-E00	2007	1,930,000	-	1
F	F-1/yr	2007	0.124	-	-
ER	ER-ratio	2007	0.051	-	-
TC	TC-MT	2007	412		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	1.757		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	1.636		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.428		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.164		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



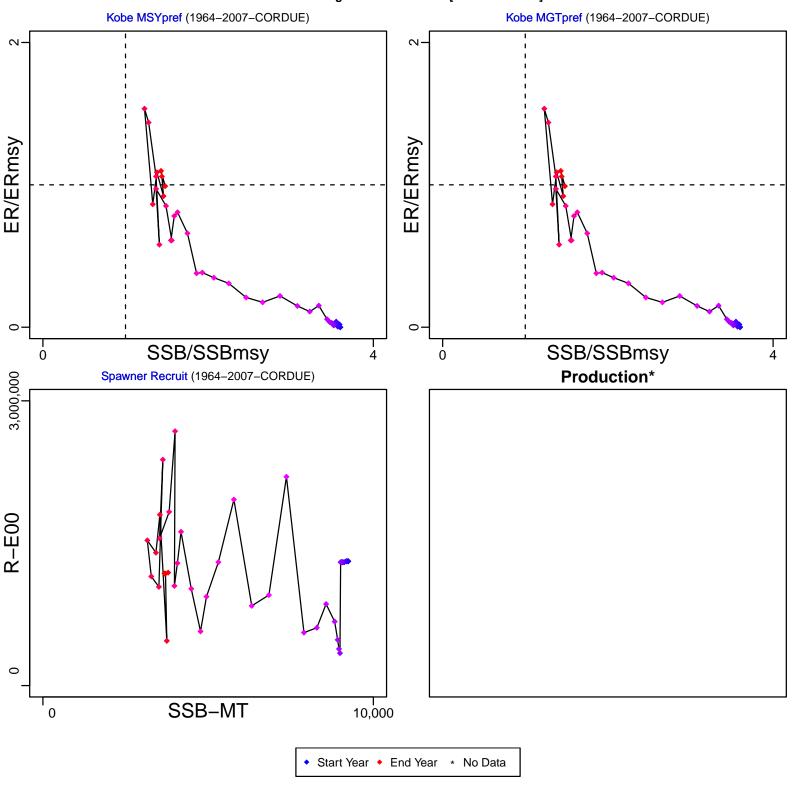


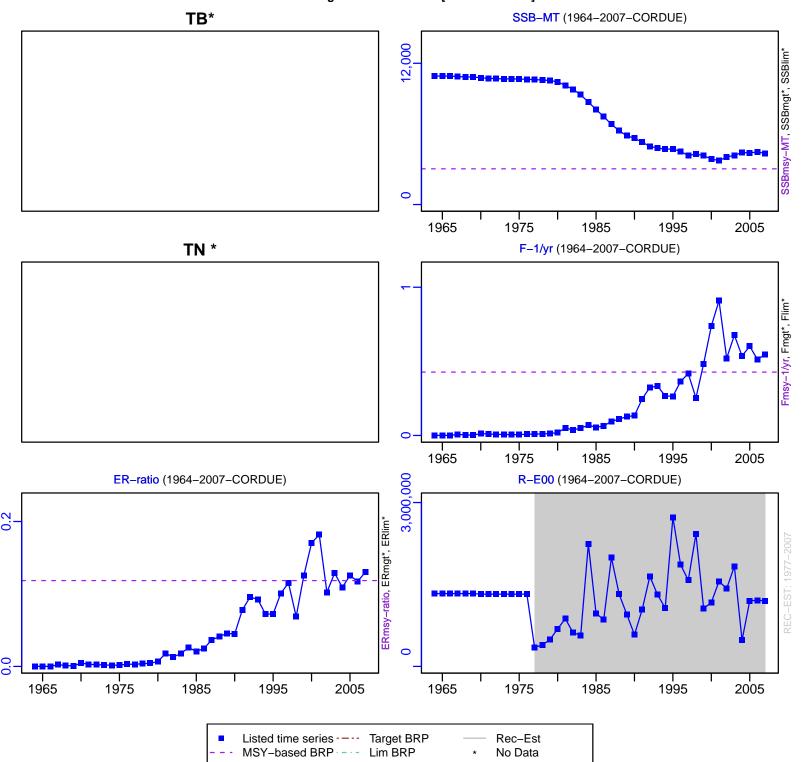


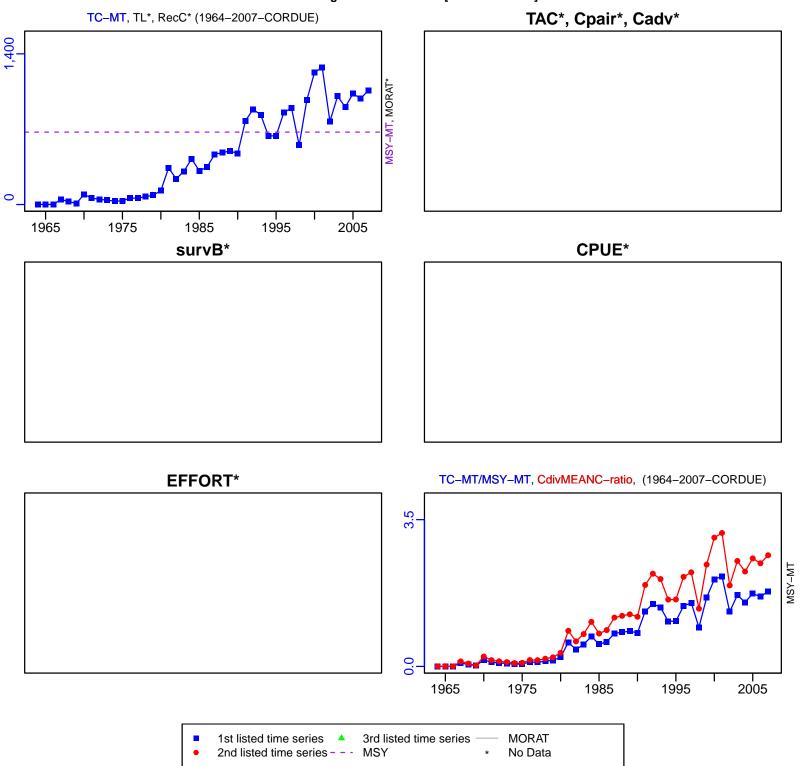
Metadata			
Scientific Name	Kathetostoma giganteum		
Current Assess ID	NIWA-GSTRGZRSTA7-1964-2007-CORDUE		
Area	NZ Area STA7		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	5906	
SSBmsy	SSBmsy-MT	2007	2568	
Fmsy	Fmsy-1/yr	2007	0.38	
ERmsy	ERmsy-ratio	2007	0.103	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	9237	
MSY	MSY-MT	2007	608	
М	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	0.486	-	-
ER	ER-ratio	2007	0.113	-	-
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	1.098		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





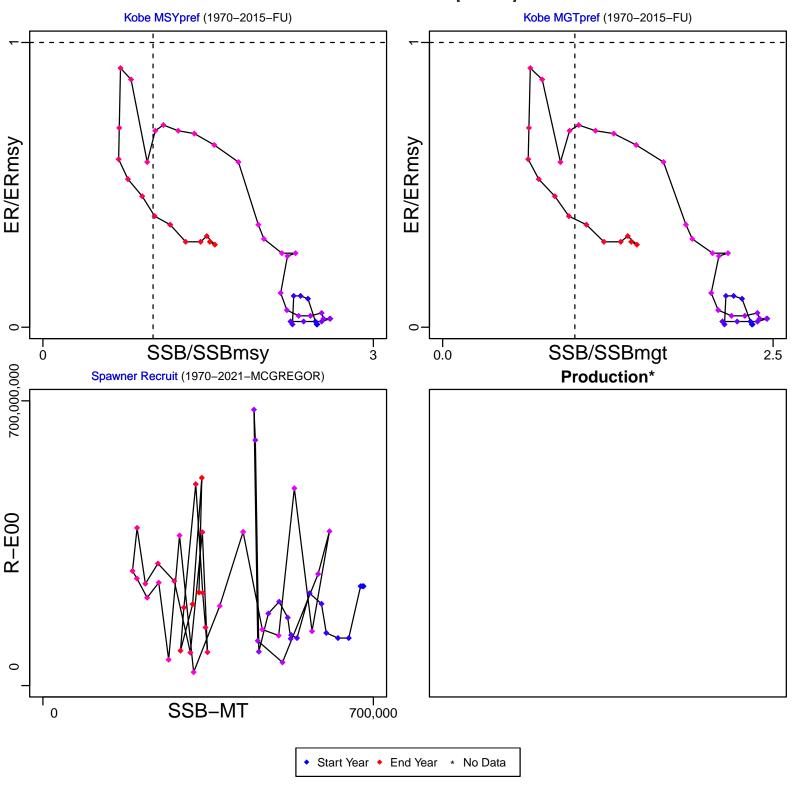


### Hoki Eastern New Zealand [HOKIENZ]

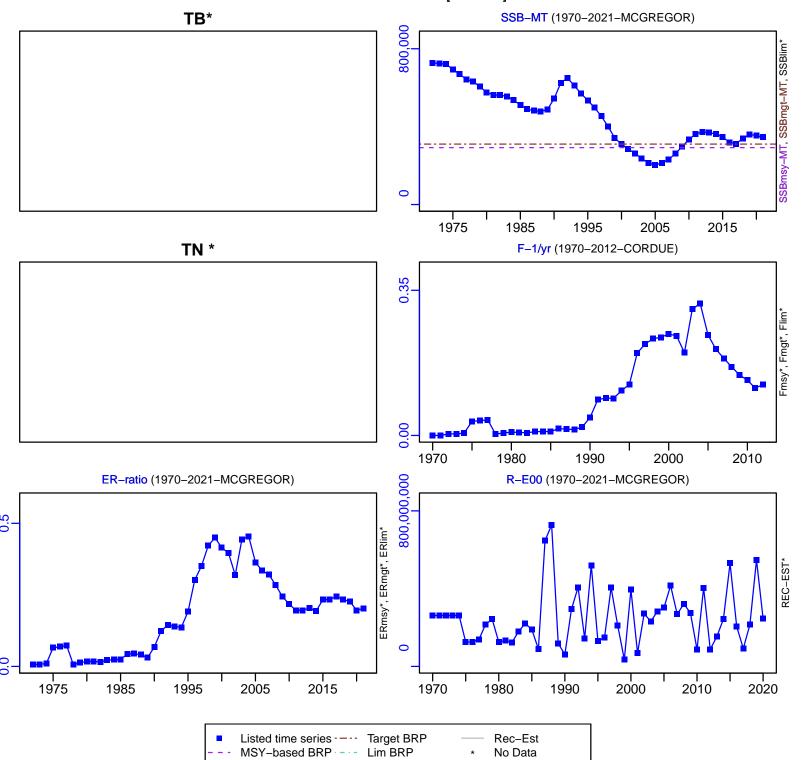
Metadata		
Scientific Name	Macruronus novaezelandiae	
Current Assess ID	NIWA-HOKIENZ-1970-2021-MCGREGOR	
Area	Eastern New Zealand	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	National Institute of Water and Atmospheric Research	
Asmts in RAM	2012, 2015, 2021	

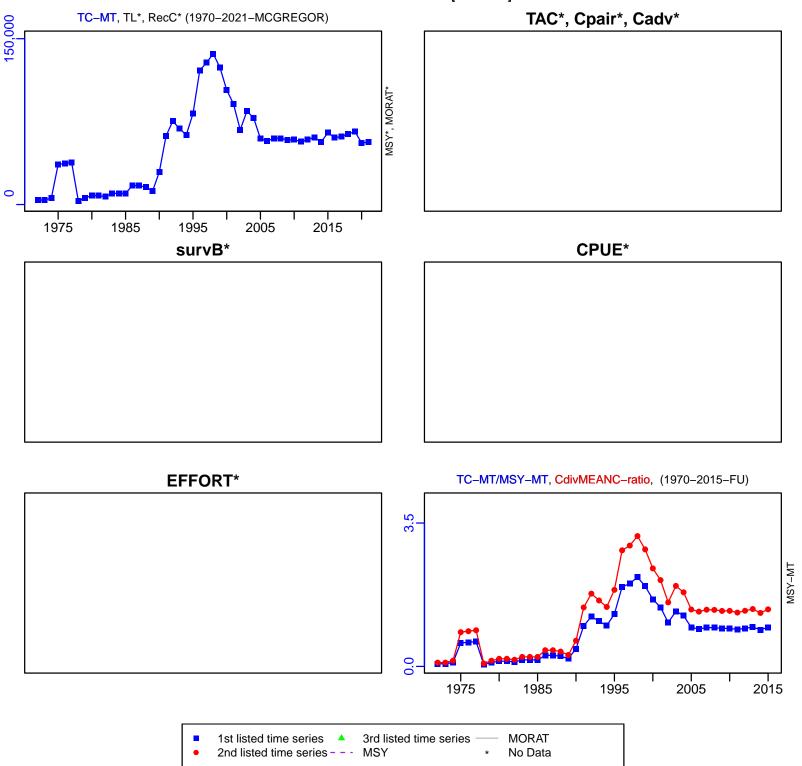
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2015	252,069	
SSBmsy	SSBmsy-MT	2021	272,868	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2015	0.29	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2021	289,923	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2021	682,171	
MSY	MSY-MT	2015	73,100	
М	M-1/yr	2015	0.29	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2021	323,219	-	2+
TN	-	-	-	-	-
R	R-E00	2021	228,993,751	-	-
F	F-1/yr	2012	0.107	-	-
ER	ER-ratio	2021	0.174	-	-
TC	TC-MT	2021	56,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.185		
F/Fmsy	FdivFmsy-dimensionless	2012	0.382		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.3		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.115		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Hoki Eastern New Zealand [HOKIENZ]



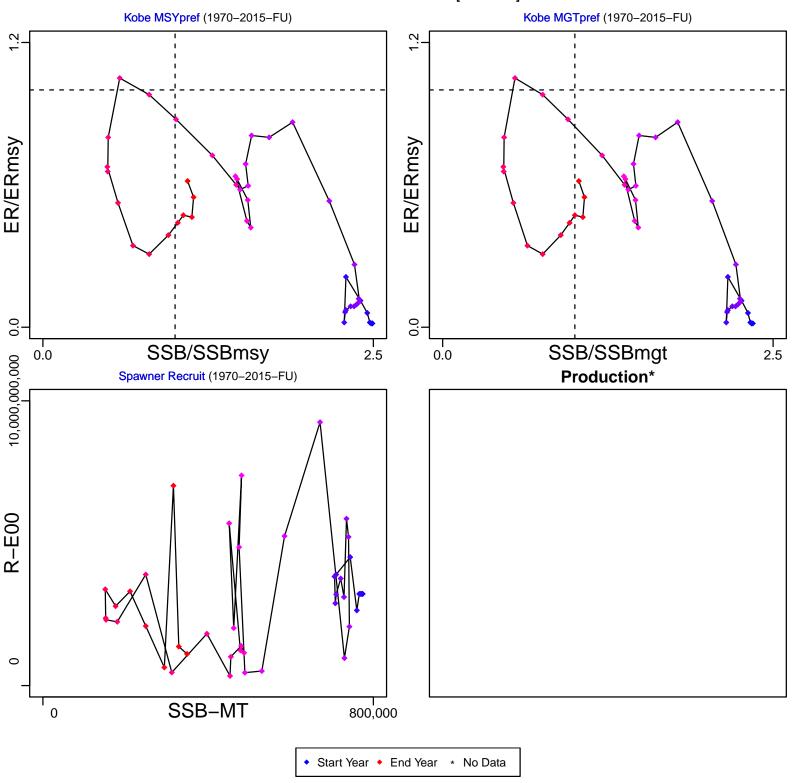


## Hoki Western New Zealand [HOKIWNZ]

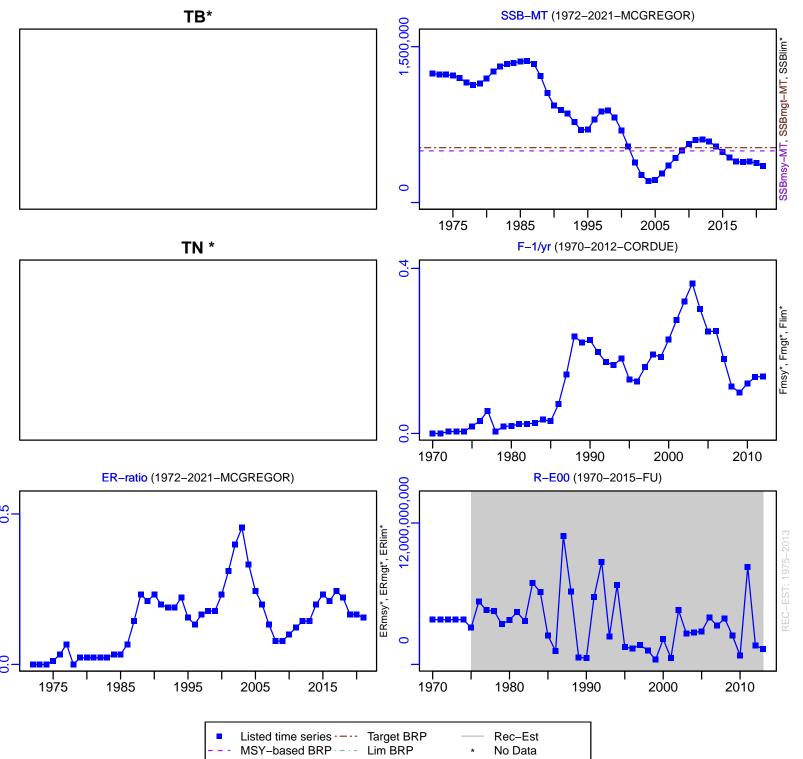
Metadata			
Scientific Name	Macruronus novaezelandiae		
Current Assess ID	NIWA-HOKIWNZ-1972-2021-MCGREGOR		
Area Western New Zealand			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2012, 2015, 2021		

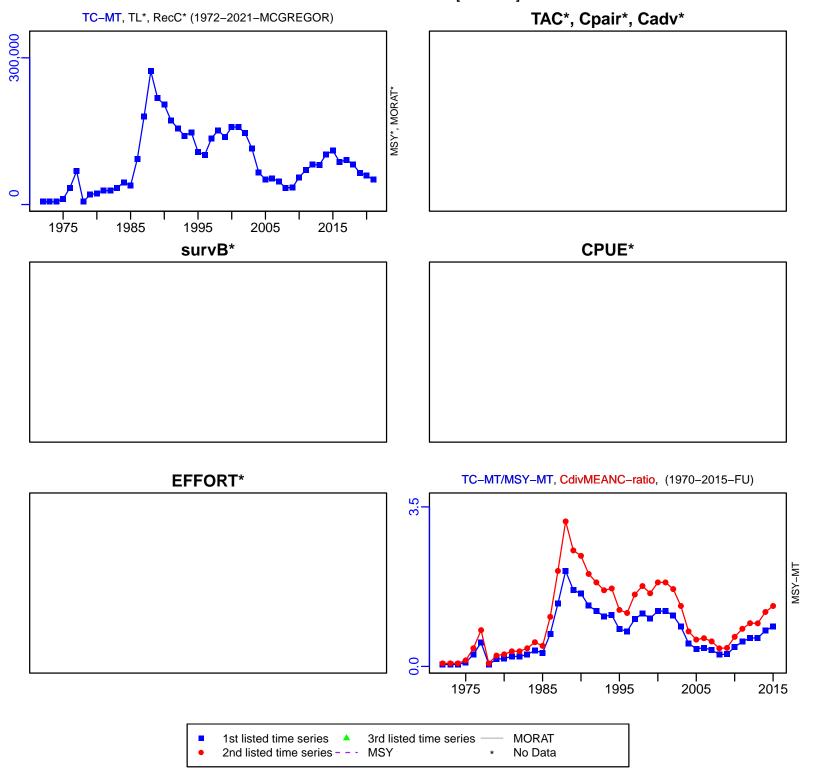
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2015	479,200	
SSBmsy	SSBmsy-MT	2021	464,420	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2015	0.25	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2021	493,446	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2021	1,161,050	
MSY	MSY-MT	2015	119,800	
M	M-1/yr	2015	0.29	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2021	330,376	-	2+
TN	-	-	-	-	-
R	R-E00	2015	$1.11 \times 10^{9}$	Both	-
F	F-1/yr	2012	0.137	-	-
ER	ER-ratio	2021	0.14	-	-
TC	TC-MT	2021	44,700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	0.711		
F/Fmsy	FdivFmsy-dimensionless	2012	0.547		
ER/ERmsy	ERdivERmsy-dimensionless	2015	0.616		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.67		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Hoki Western New Zealand [HOKIWNZ]

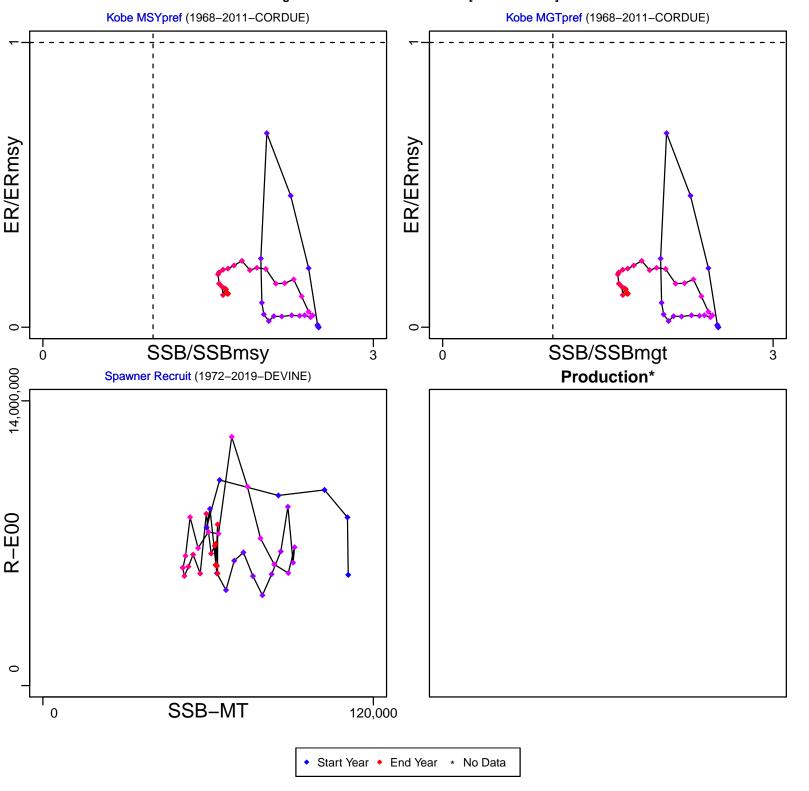


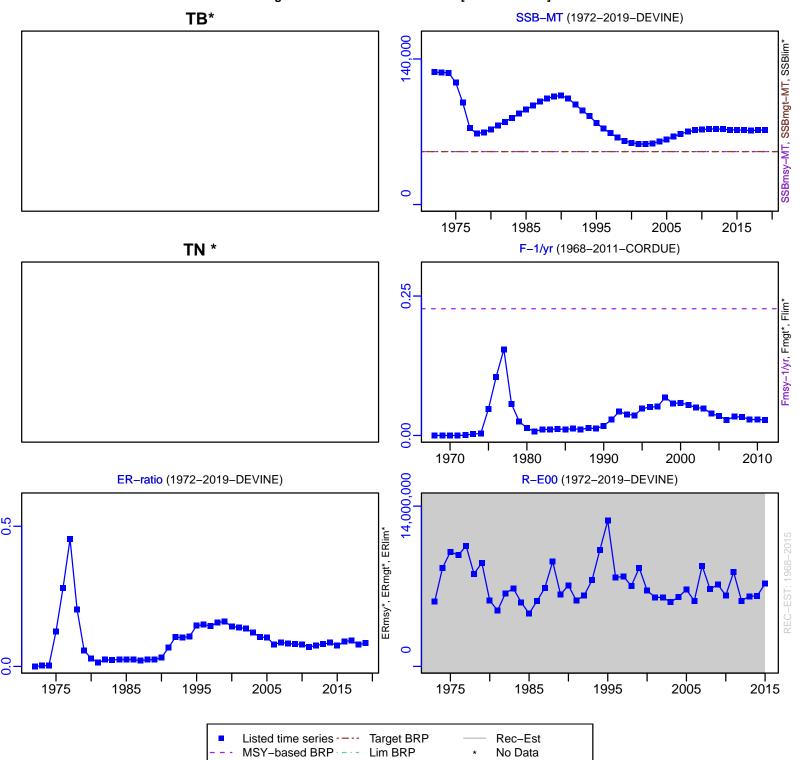


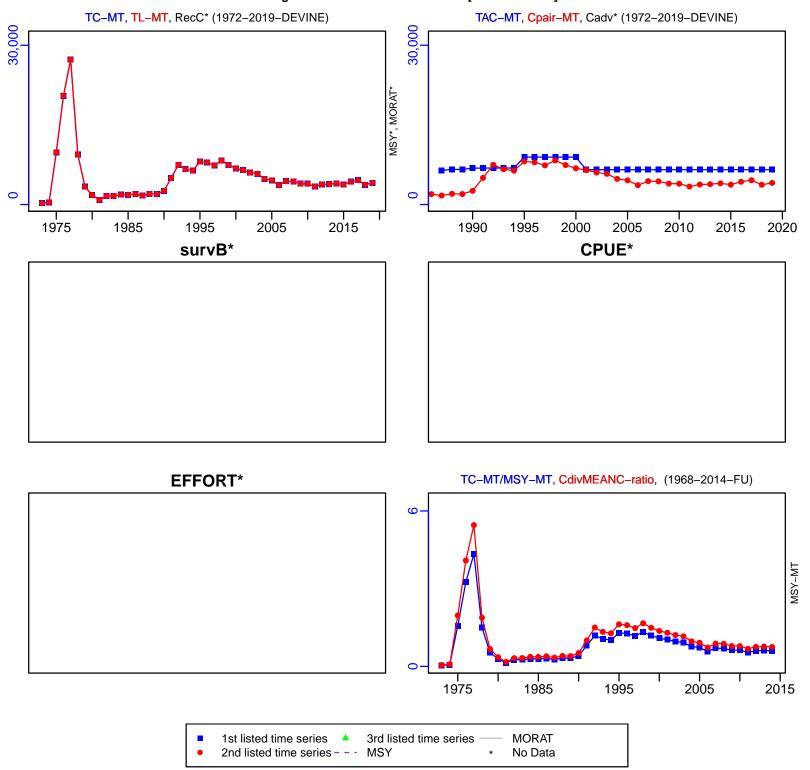
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID	NIWA-NZLINGLIN3-4-1972-2019-DEVINE		
Area New Zealand Areas LIN 3 and 4			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2011, 2014, 2019		

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	17,362
SSBmsy	SSBmsy-MT	2019	44,426
Fmsy	Fmsy-1/yr	2011	0.19
ERmsy	ERmsy-ratio	2014	0.37
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	44,426
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2019	111,066
MSY	MSY-MT	2014	6424
М	M-1/yr	2019	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	62,703	-	3-25+
TN	-	-	-	-	-
R	R-E00	2019	6,969,310	-	4
F	F-1/yr	2011	0.023	-	-
ER	ER-ratio	2019	0.07	-	3-25+
TC	TC-MT	2019	3883		
TL	TL-MT	2019	3883		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.411		
F/Fmsy	FdivFmsy-dimensionless	2011	0.123		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.117		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.411		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



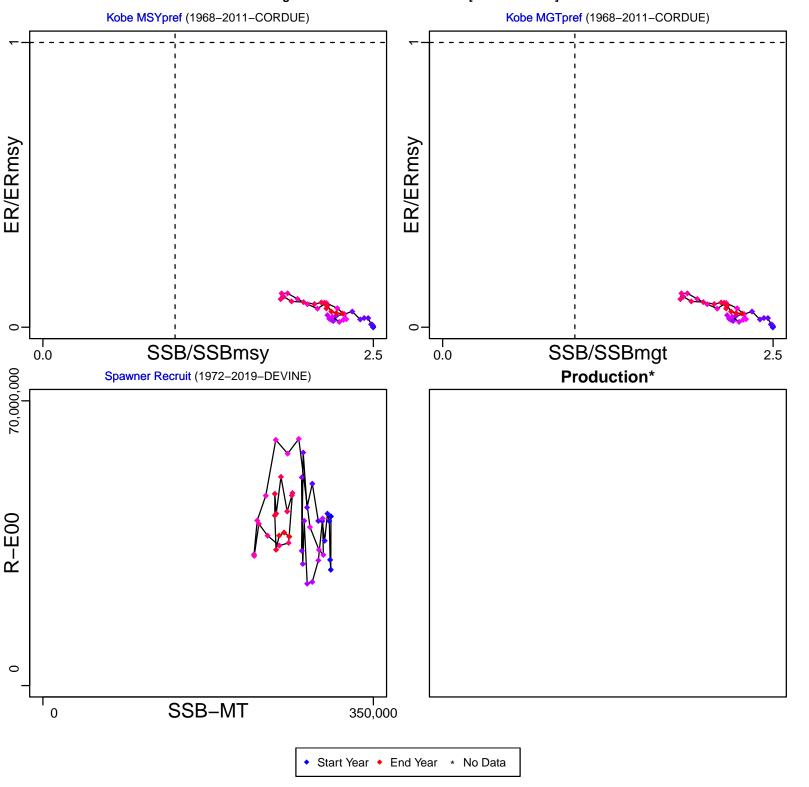


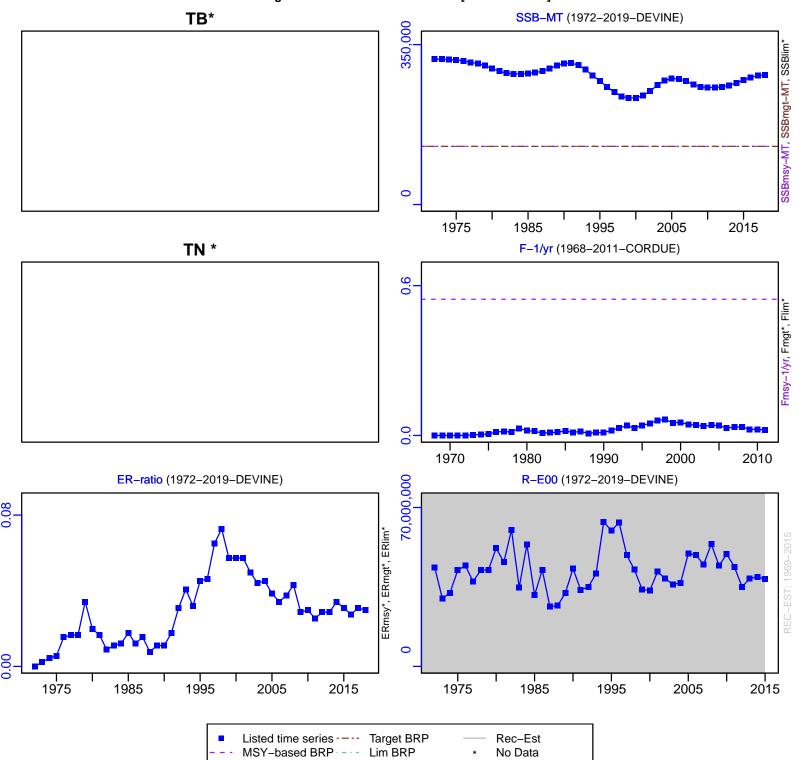


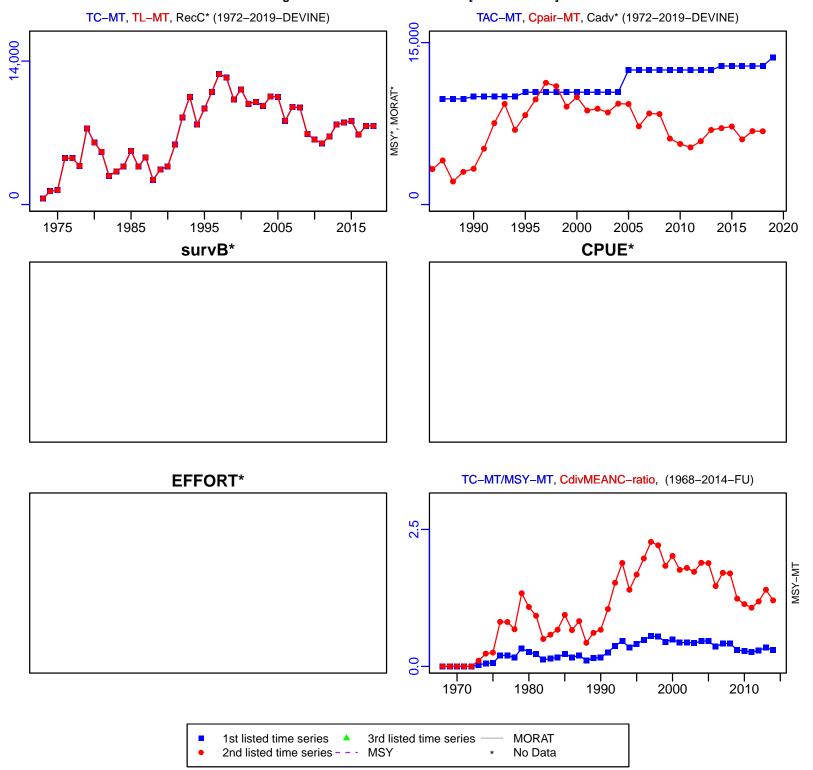
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID	NIWA-NZLINGLIN5-6-1972-2019-DEVINE		
Area New Zealand Areas LIN 5 and 6			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2011, 2014, 2019		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2011	159,694
SSBmsy	SSBmsy-MT	2019	122,042
Fmsy	Fmsy-1/yr	2011	0.49
ERmsy	ERmsy-ratio	2011	0.162
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	122,042
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2019	305,105
MSY	MSY-MT	2014	23,827
М	M-1/yr	2019	0.24
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	271,900	-	3-25+
TN	-	-	-	-	-
R	R-E00	2019	36,612,995	-	3
F	F-1/yr	2011	0.02	-	-
ER	ER-ratio	2019	0.027	-	3-25+
TC	TC-MT	2019	6590		
TL	TL-MT	2019	6590		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.228	]	
F/Fmsy	FdivFmsy-dimensionless	2011	0.041		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.048		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	2.228		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



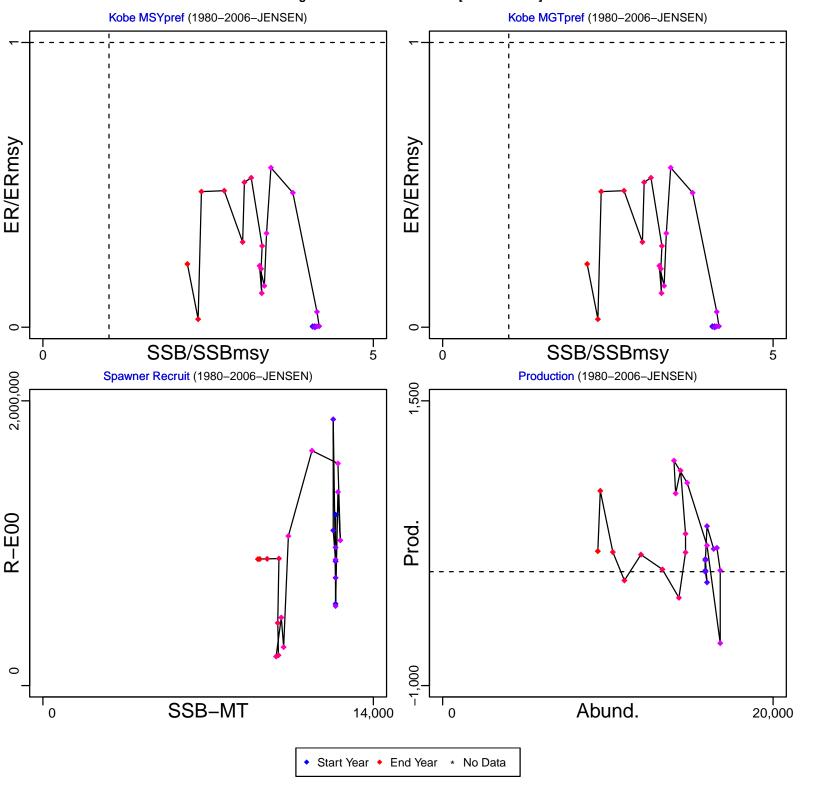


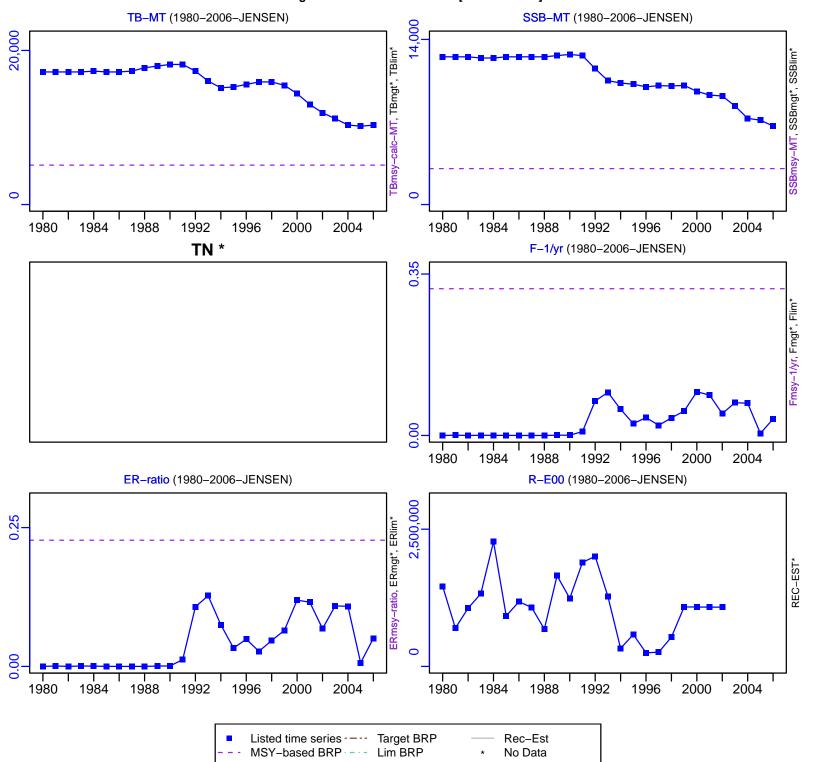


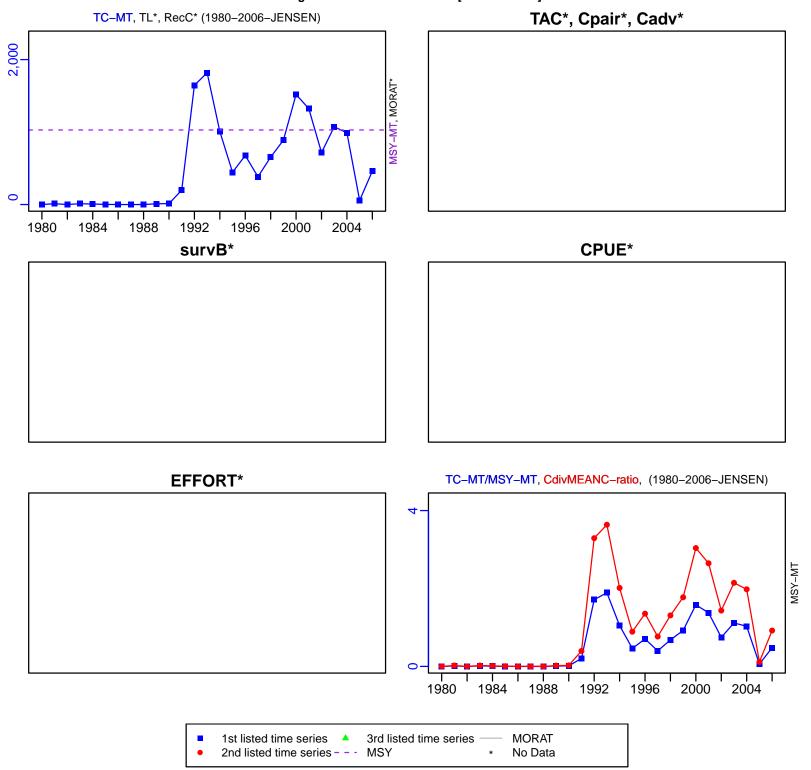
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID NZMFishMIDDEPTHSWG-NZLINGLIN6b-1980-2006-JENSEN			
Area New Zealand Areas LIN 6b			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Middle Depths Working Group		
Asmts in RAM	2006		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2006	4725	
SSBmsy	SSBmsy-MT	2006	3014	
Fmsy	Fmsy-1/yr	2006	0.308	
ERmsy	ERmsy-ratio	2006	0.189	
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	Both	-
TN	-	-	-	-	-
R	R-E00	2006	888,000	-	3
F	F-1/yr	2006	0.035	-	-
ER	ER-ratio	2006	0.042	-	-
TC	TC-MT	2006	400		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2006	2.015		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2006	2.186		
F/Fmsy	F-1/yr/Fmsy-1/yr	2006	0.113		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	0.222		
TB/TBmgt		-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



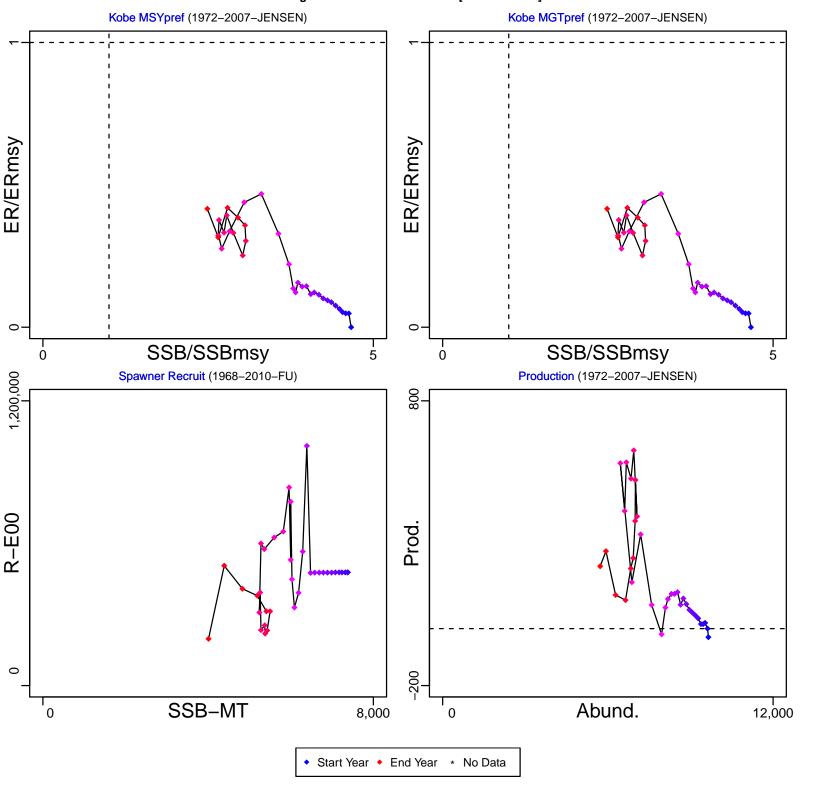


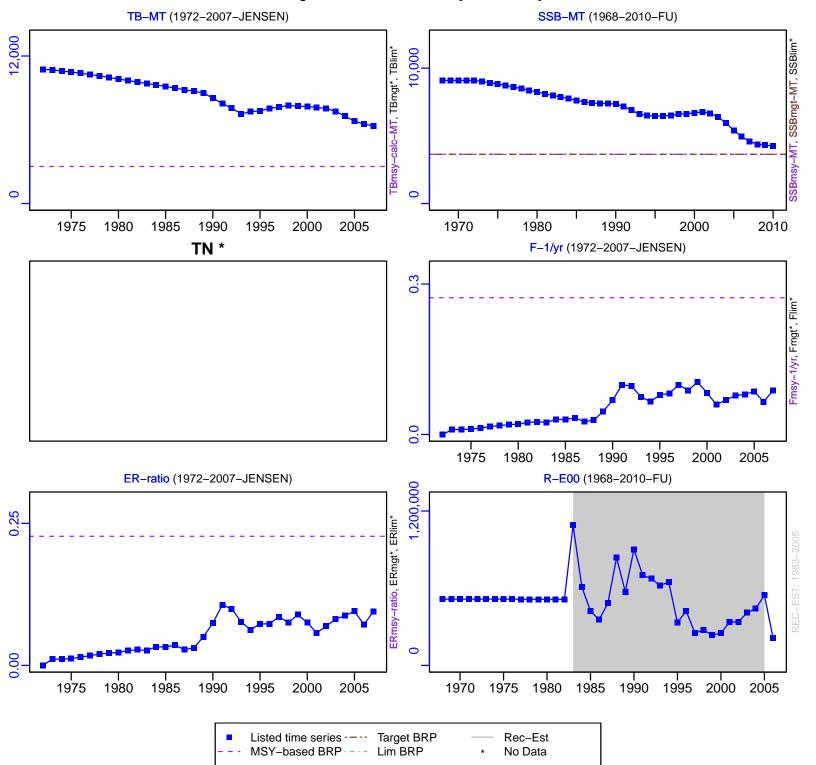


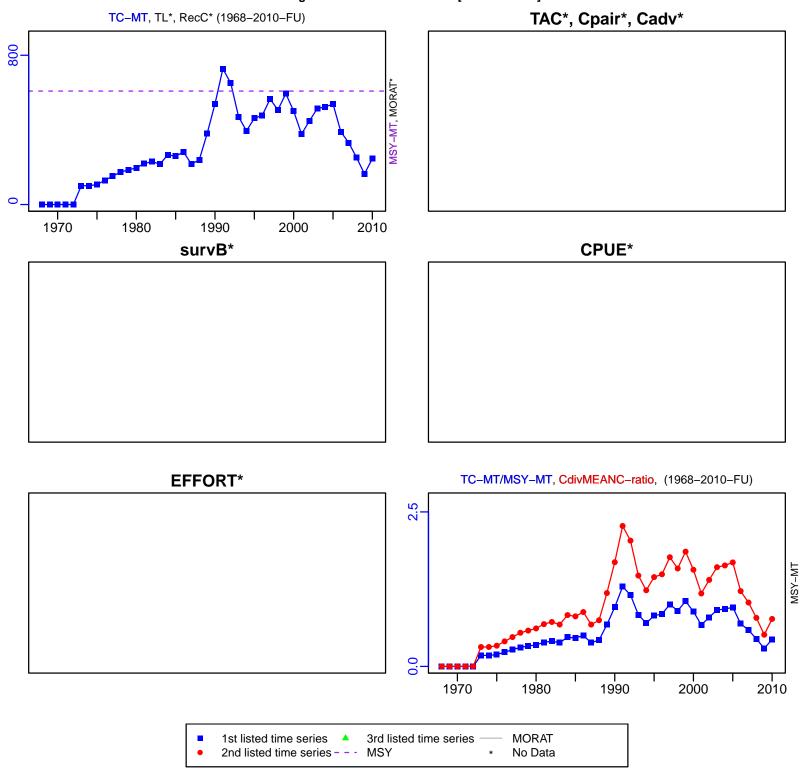
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID	NZMFishMIDDEPTHSWG-NZLINGLIN72-1968-2010-FU		
Area New Zealand Areas LIN 72			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Middle Depths Working Group		
Asmts in RAM	2010, 2007		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2010	1877
SSBmsy	SSBmsy-MT	2010	2952
Fmsy	Fmsy-1/yr	2007	0.246
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	0.204
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	0.08	-	-
ER	ER-ratio	2007	0.08	-	-
TC	TC-MT	2010	220		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2007	2.098		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	1.169		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.323		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.416		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2010	1.169		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



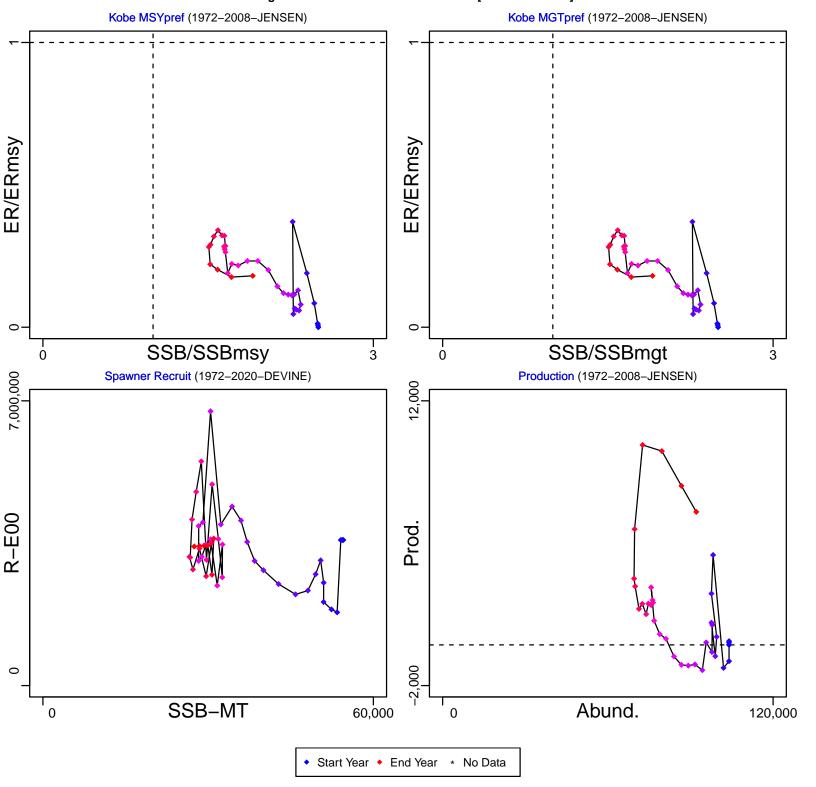


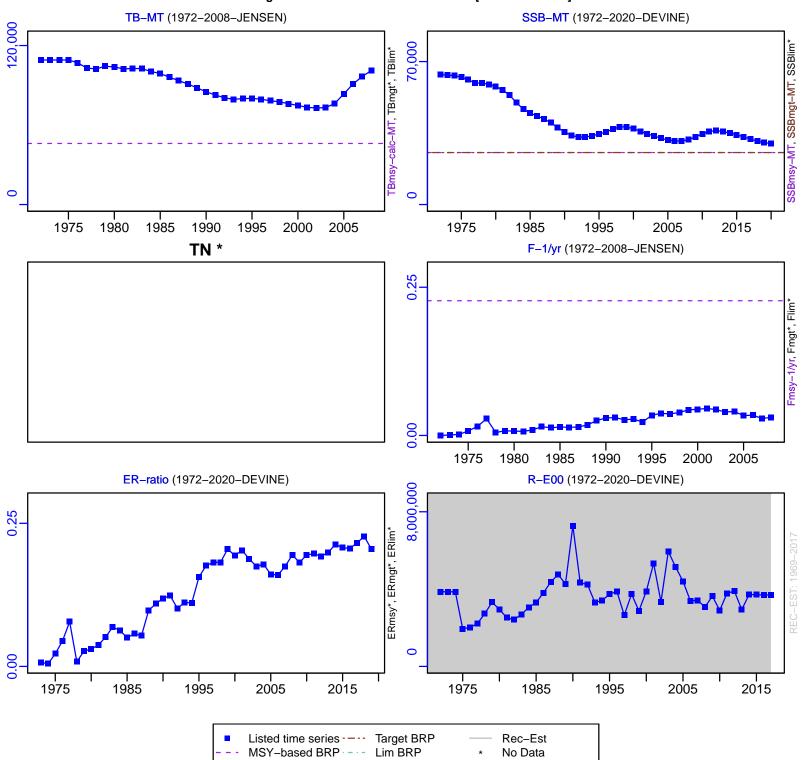


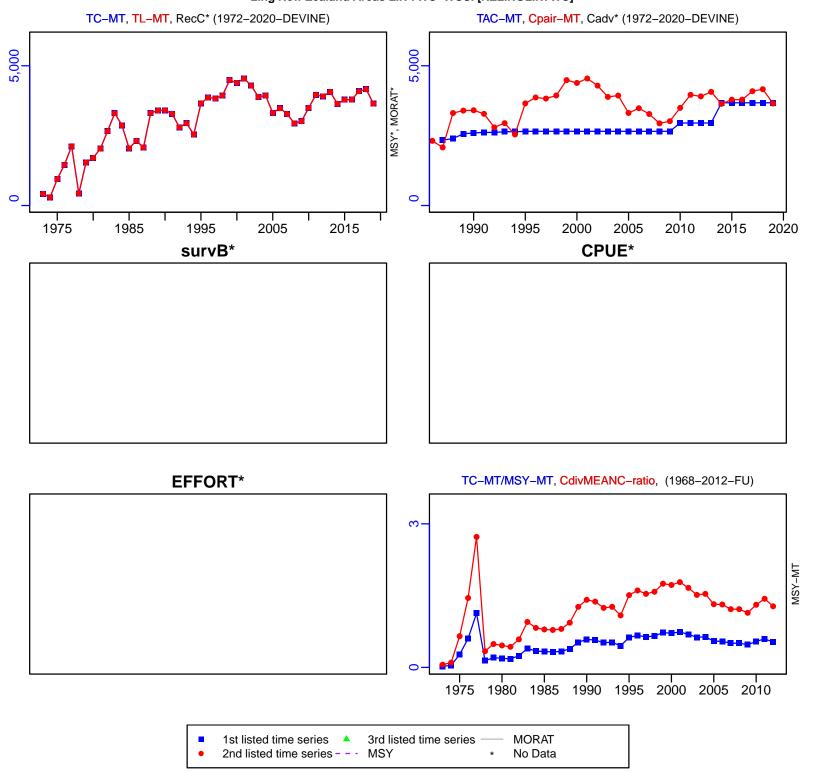
Metadata			
Scientific Name	Genypterus blacodes		
Current Assess ID	NZMFishMIDDEPTHSWG-NZLINGLIN7WC-1972-2020-DEVINE		
Area	New Zealand Areas LIN 7WC-WCSI		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Middle Depths Working Group		
Asmts in RAM	2012, 2008, 2020		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2008	43,937
SSBmsy	SSBmsy-MT	2020	21,818
Fmsy	Fmsy-1/yr	2008	0.202
ERmsy	ERmsy-ratio	2008	0.138
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2020	21,818
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2020	54,546
MSY	MSY-MT	2012	5150
М	M-1/yr	2020	0.18
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	96,400	-	3
SSB	SSB-MT	2020	25,556	Both	28-Mar
TN	-	-	-	-	-
R	R-E00	2020	3,419,292	Both	3
F	F-1/yr	2008	0.027	-	-
ER	ER-ratio	2020	0.176	Both	28-Mar
TC	TC-MT	2020	3058		
TL	TL-MT	2020	3058		
TB/TBmsy	TB-MT/TBmsy-calc-MT	2008	2.194		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2020	1.171		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.134		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2020	1.171		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





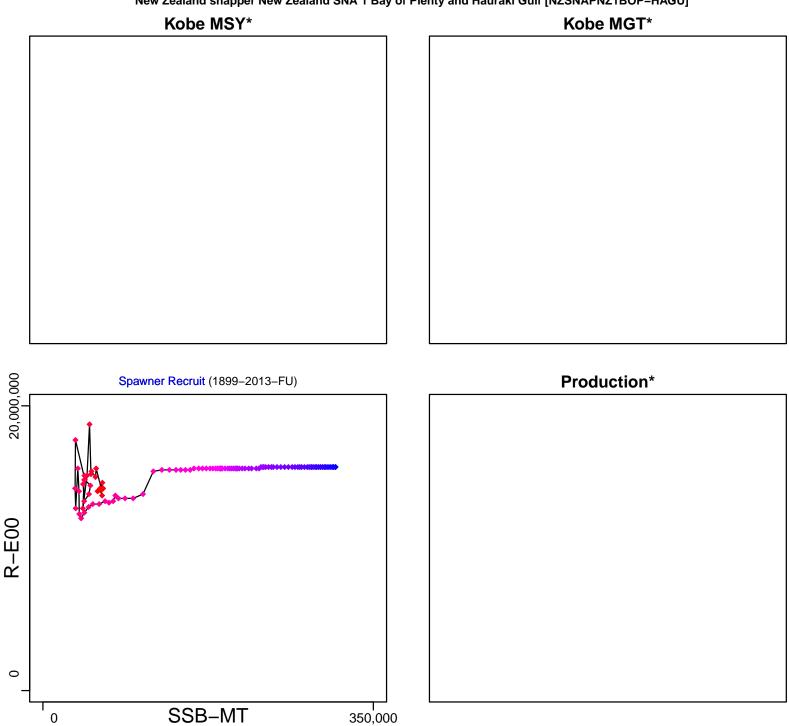


# New Zealand snapper New Zealand SNA 1 Bay of Plenty and Hauraki Gulf [NZSNAPNZ1BOP-HAGU]

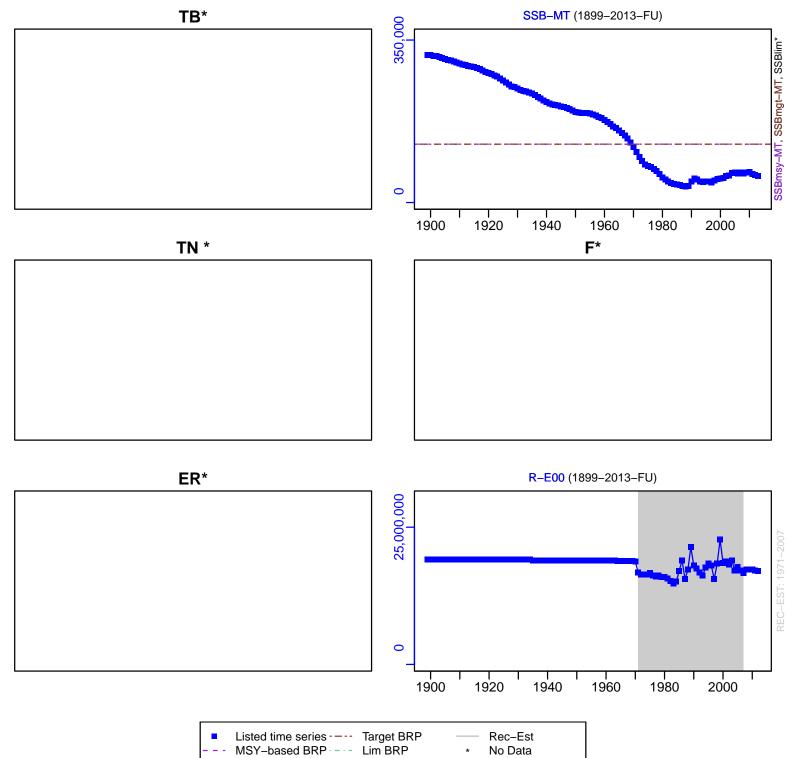
Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID	NIWA-NZSNAPNZ1BOP-HAGU-1899-2013-FU		
Area	New Zealand SNA 1 Bay of Plenty and Hauraki Gulf		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research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

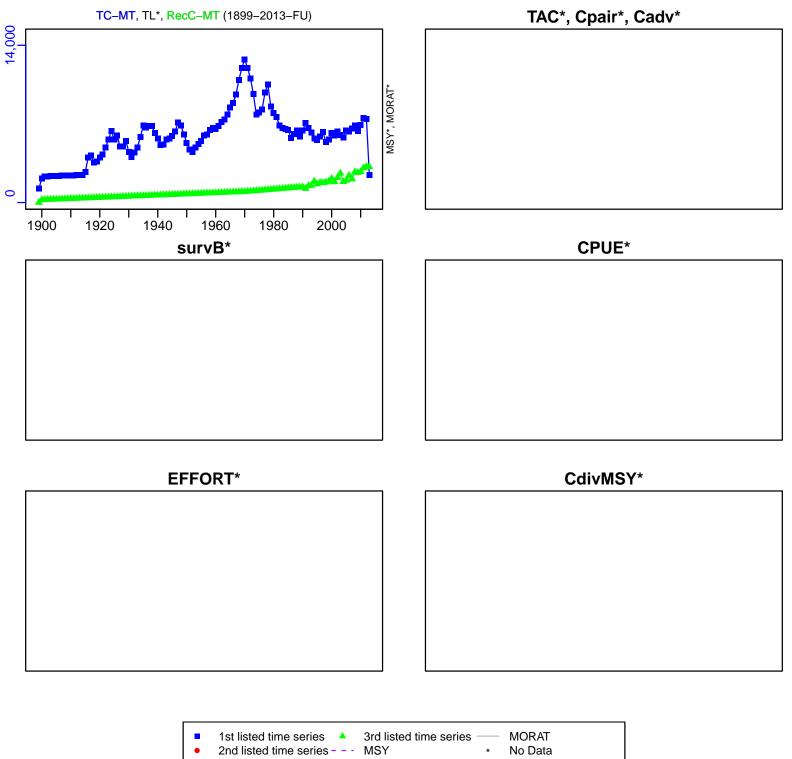
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	122,479	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2013	122,479	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2013	306,198	
MSY	-	-	-	
М	M-1/yr	2013	0.075	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2013	55,600	-	4 to 20
TN	-	-	-	-	-
R	R-E00	2013	$1.4 \times 10^{7}$	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2013	2300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.454		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.454		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data



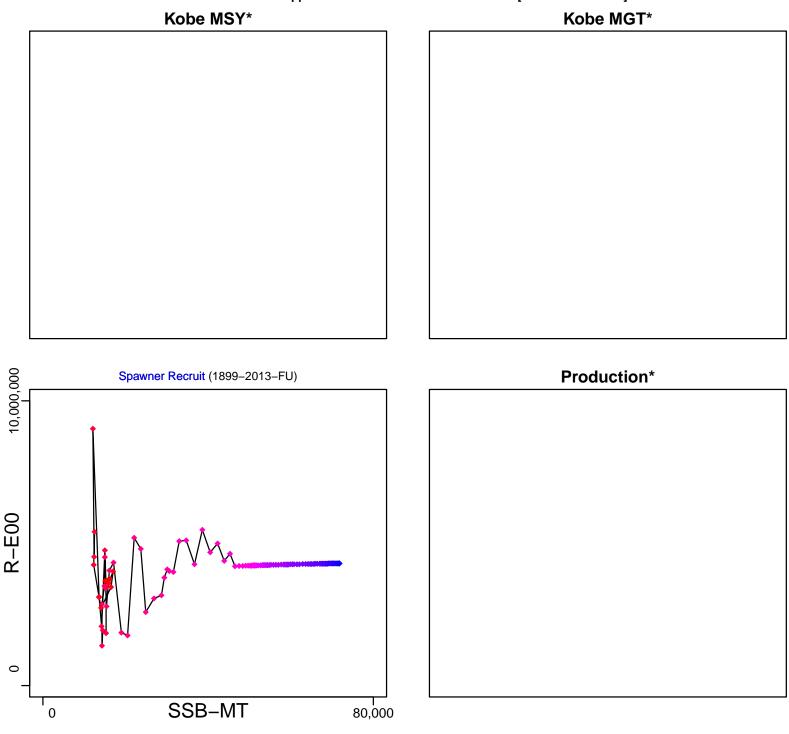


## New Zealand snapper New Zealand SNA 1 east Northland [NZSNAPNZ1ENLD]

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		

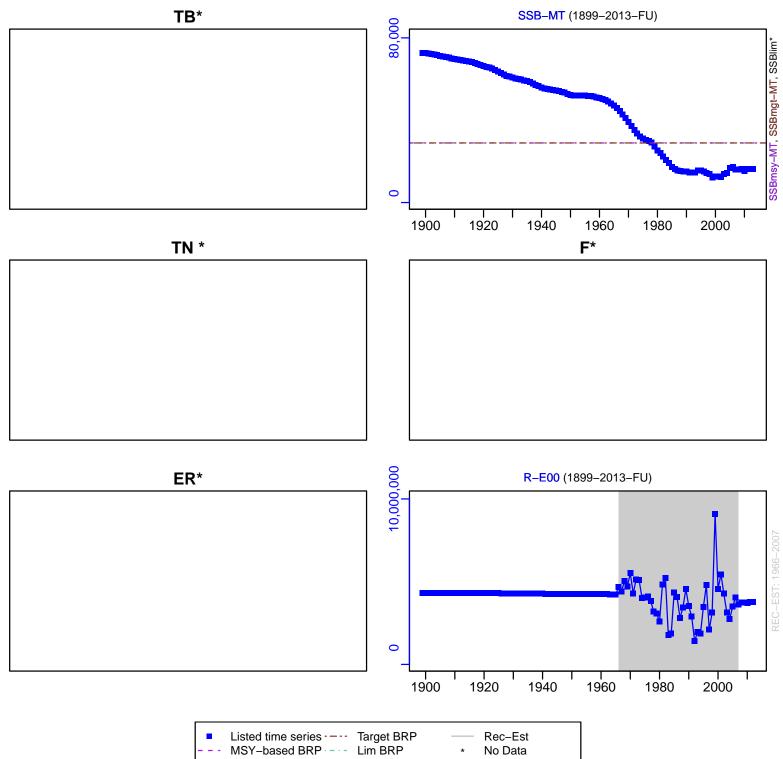
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2013	28,570	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2013	28,570	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2013	71,425	
MSY	-	-	-	
M	M-1/yr	2013	0.075	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-	-	-
TC	TC-MT	2013	1750		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.567		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.567		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

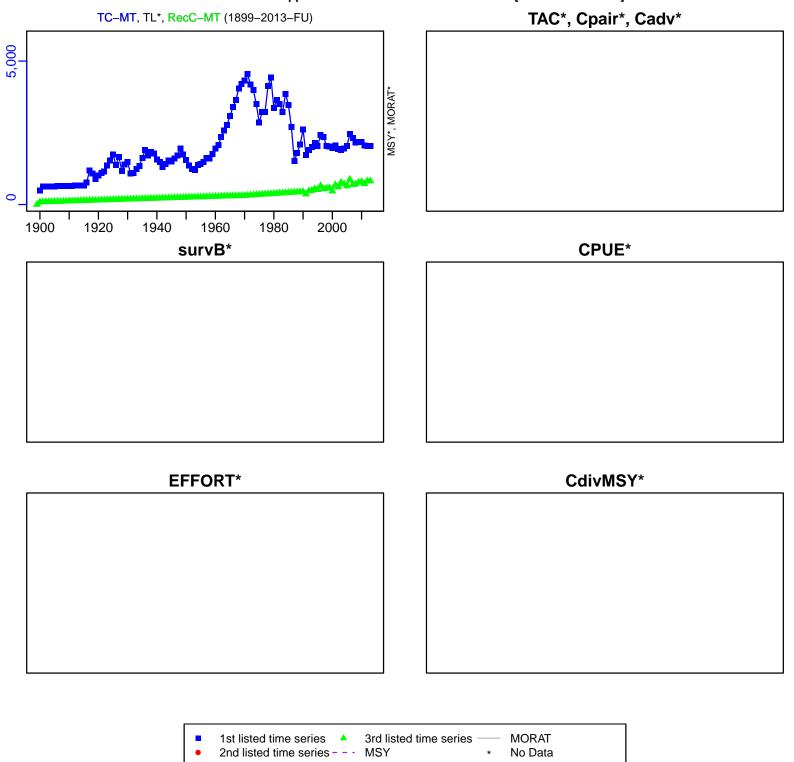


Start Year • End Year \* No Data

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



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

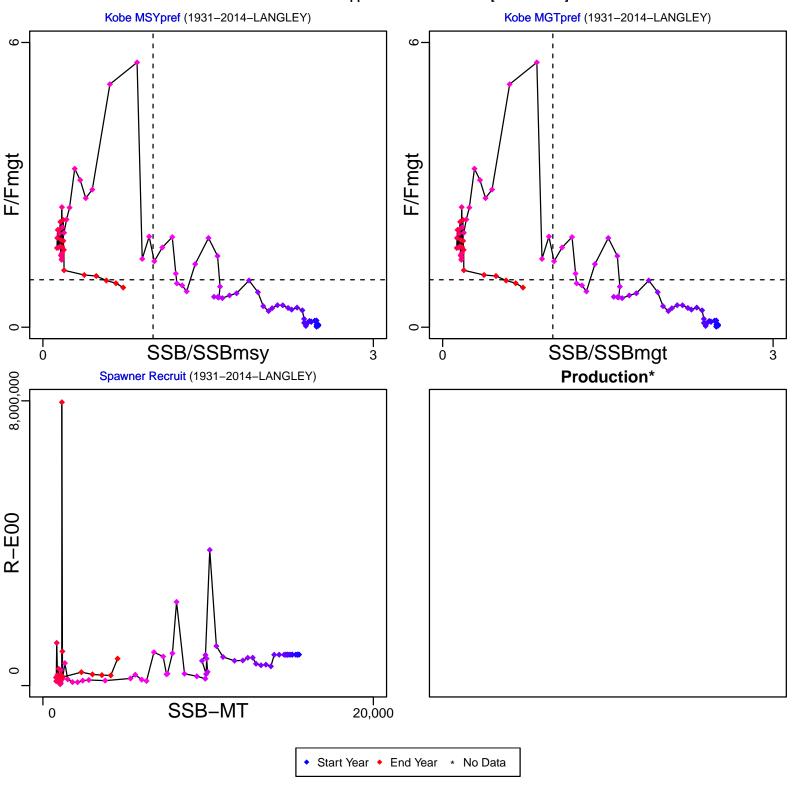


# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

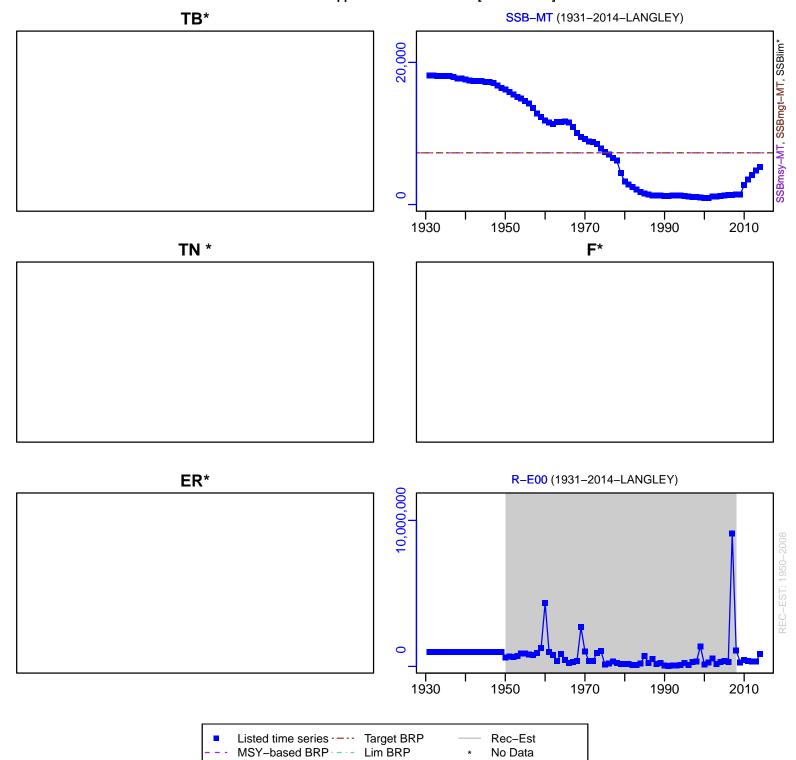
Metadata				
Scientific Name	Chrysophrys auratus			
Current Assess ID	NZMFishINSHOREWG-NZSNAPNZ7-1931-2014-LANGLEY			
Area	New Zealand SNA 7			
Management Authority	Ministry of Fisheries, New Zealand national management			
Assessor	Inshore Working Group			
Asmts in RAM	2014			

Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2014	6199			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2014	6199			
Fmgt	Fmgt-1/yr	2014	0.056			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	SSB0-MT	2014	15,497			
MSY	MSY-MT	2014	699			
М	M-1/yr	2014	0.075			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

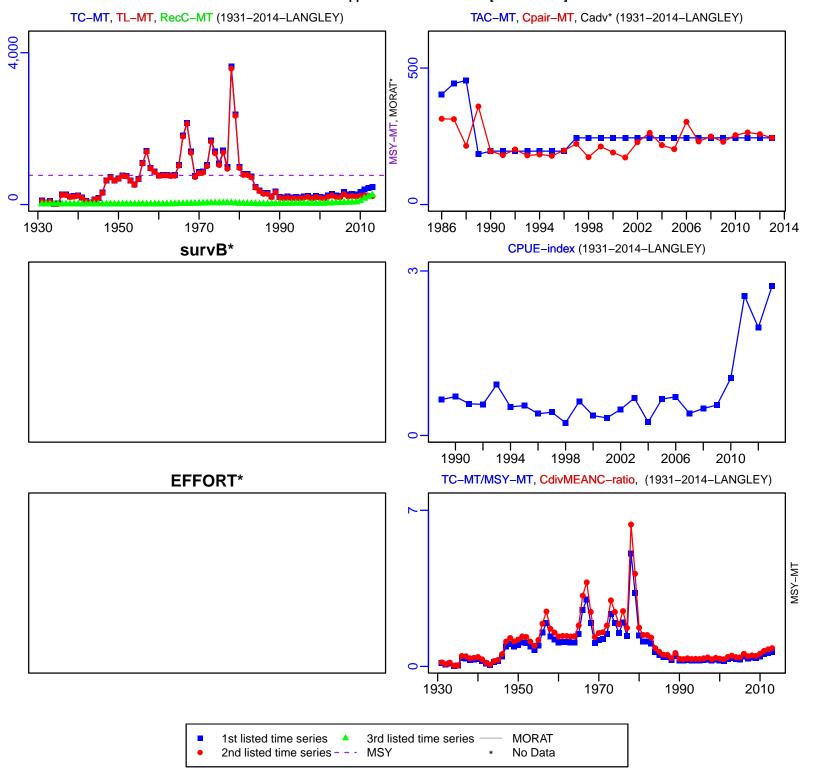
Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	-	-	-	-	-		
SSB	SSB-MT	2014	4520	Females	3 to 30+		
TN	-	-	-	-	-		
R	R-E00	2014	757,000	Both	0		
F	-	-	-	-	-		
ER	-	-	-	-	-		
TC	TC-MT	2014	426				
TL	TL-MT	2014	200				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.729				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.729				
F/Fmgt	FdivFmgt-dimensionless	2014	0.836				
ER/ERmgt	-	-	-				



# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]



# New Zealand snapper New Zealand SNA 7 [NZSNAPNZ7]

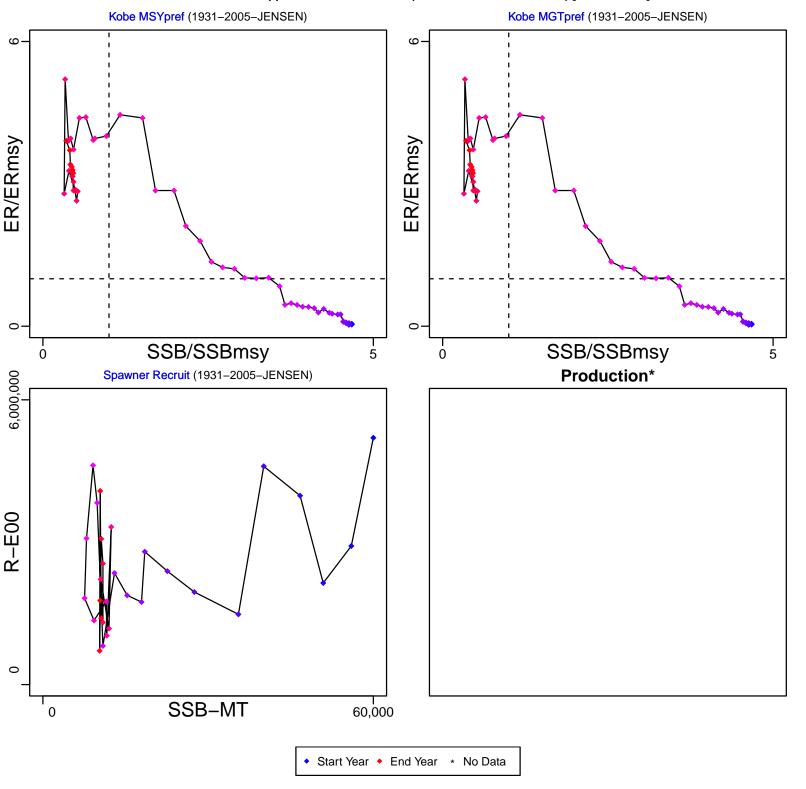


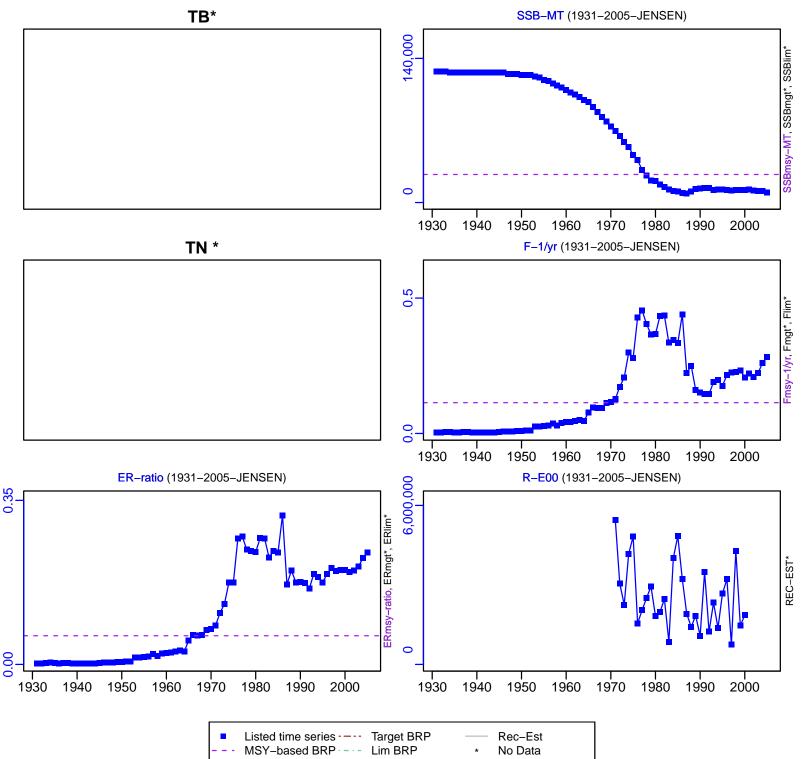
# New Zealand snapper New Zealand Area 8 (Auckland and Central West) [NZSNAPNZ8]

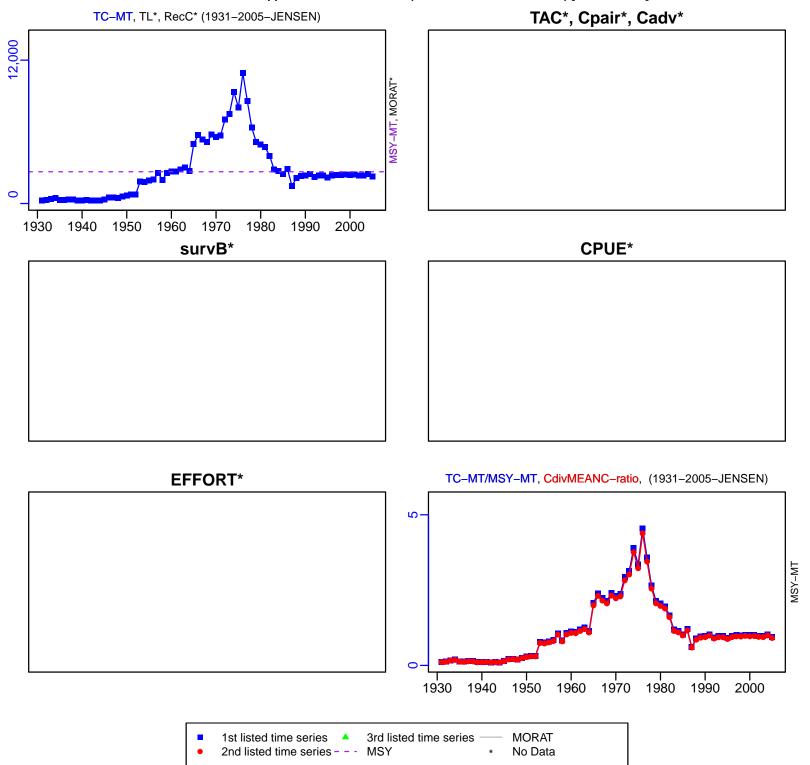
Metadata			
Scientific Name	Chrysophrys auratus		
Current Assess ID	NZMFishINSHOREWG-NZSNAPNZ8-1931-2005-JENSEN		
Area New Zealand Area 8 (Auckland and Central West)			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Inshore Working Group		
Asmts in RAM	2005		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2005	37,979		
SSBmsy	SSBmsy-MT	2005	23,536		
Fmsy	Fmsy-1/yr	2005	0.092		
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	0.051		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2005	8310	Both	-
TN	-	-	-	-	-
R	R-E00	2005	1,770,000	-	3
F	F-1/yr	2005	0.23	-	-
ER	ER-ratio	2005	0.235	-	-
TC	TC-MT	2005	1950		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2005	0.353		
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	2.492		
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	3.906		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





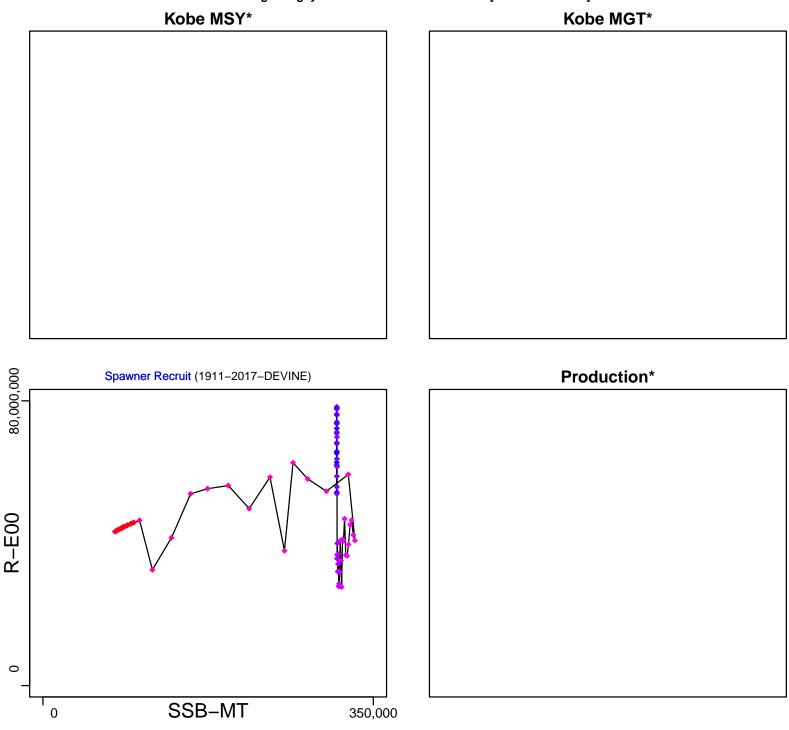


# Orange roughy East and South Chatham Rise [OROUGHYESCR]

Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYESCR-1911-2017-DEVINE		
Area East and South Chatham Rise			
Management Authority Ministry of Fisheries, New Zealand national mana			
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014, 2017		

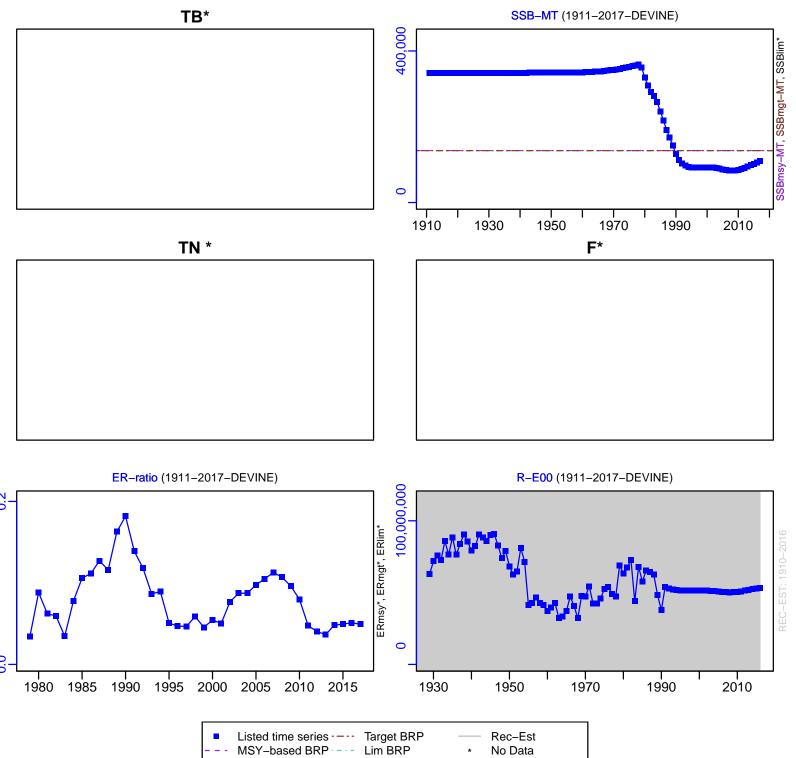
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2017	124,507	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2017	124,507	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2014	0.053	
TB0	-	-	-	
SSB0	SSB0-MT	2017	311,268	
MSY	MSY-MT	2014	8640	
М	M-1/yr	2017	0.045	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2017	99,746	Both	28-100
TN	-	-	-	-	-
R	R-E00	2017	45,828,090	Both	28
F	-	-	-	-	-
ER	ER-ratio	2017	0.048	Both	28-100
TC	TC-MT	2017	3503		
TL	TL-MT	2017	3336		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	0.801		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.801		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



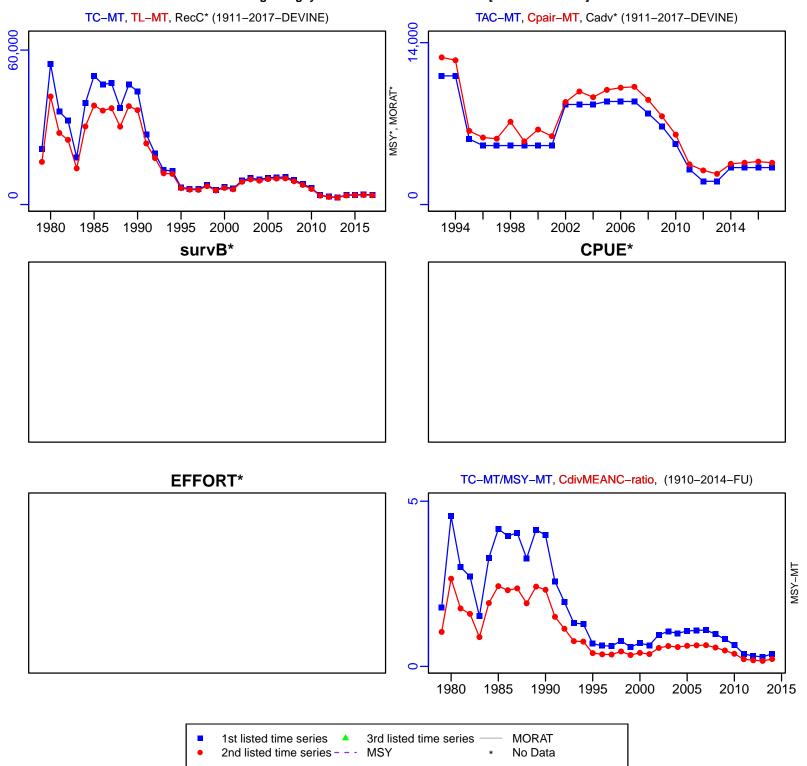
Start Year • End Year \* No Data

# Orange roughy East and South Chatham Rise [OROUGHYESCR]



No Data

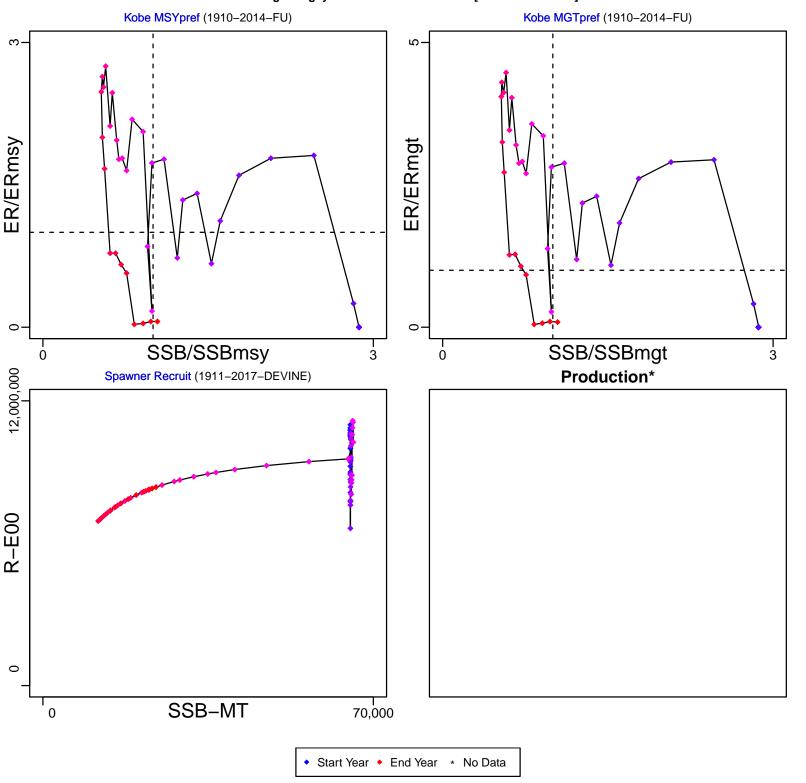
# Orange roughy East and South Chatham Rise [OROUGHYESCR]

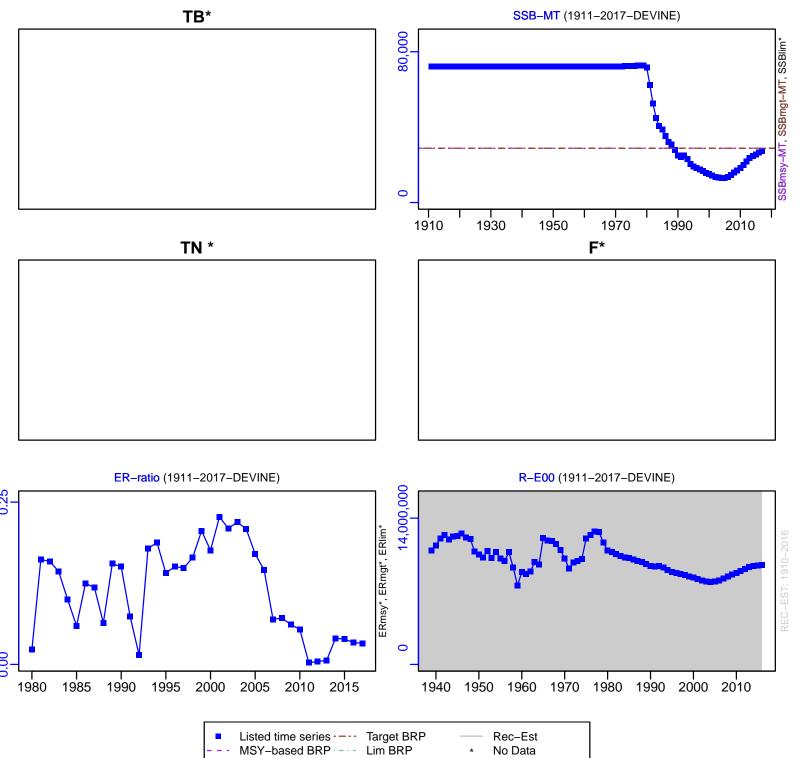


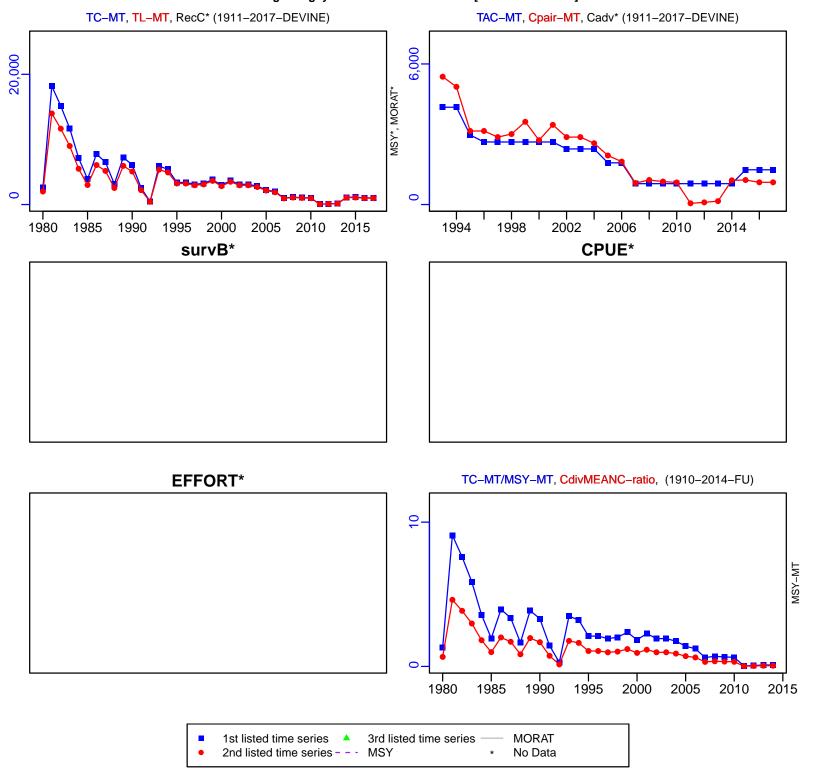
Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYNWCR-1911-2017-DEVINE		
Area Northwest Chatham Rise			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014, 2017		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	16,052
SSBmsy	SSBmsy-MT	2017	26,054
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.086
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	26,054
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.053
TB0	-	-	-
SSB0	SSB0-MT	2017	65,134
MSY	MSY-MT	2014	1386
M	M-1/yr	2017	0.045
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2017	24,712	Both	28-100
TN	-	-	-	-	-
R	R-E00	2017	8,363,698	Both	28
F	-	-	-	-	-
ER	ER-ratio	2017	0.032	Both	28-100
TC	TC-MT	2017	799		
TL	TL-MT	2017	761		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	0.948		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.06		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	0.948		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



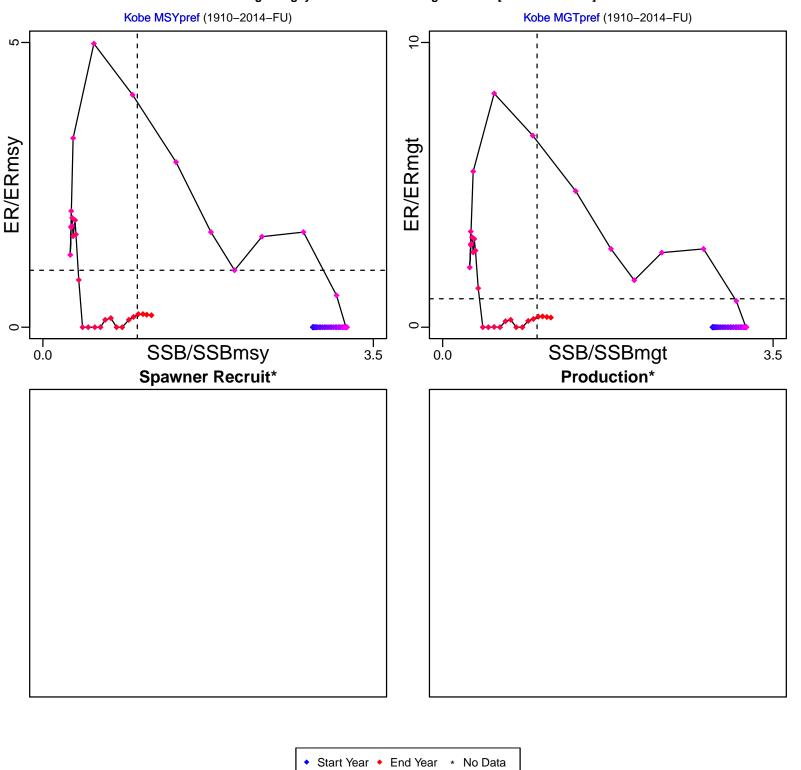


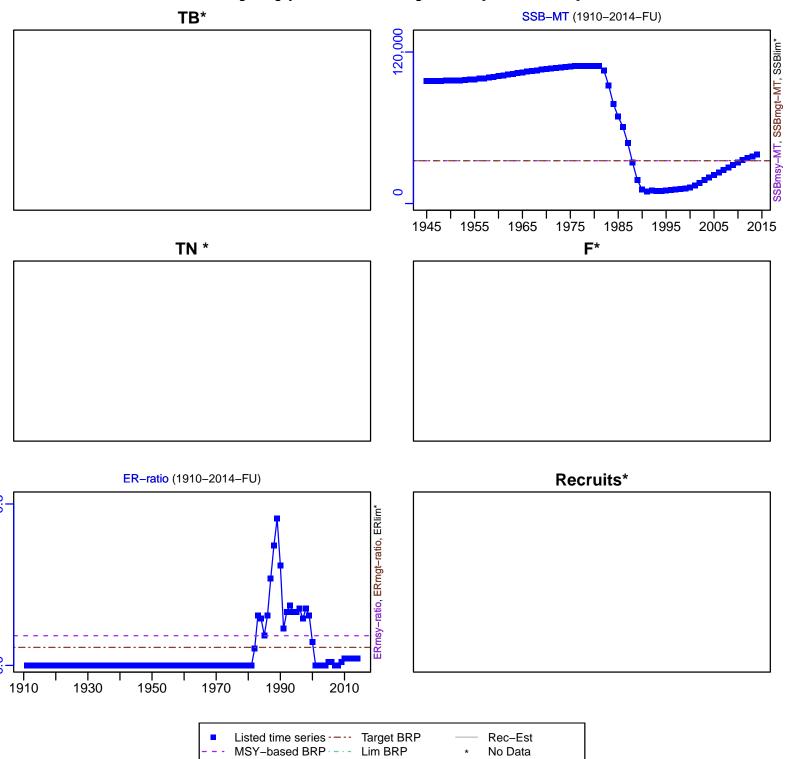


Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID	NIWA-OROUGHYNZ7A-1910-2014-FU		
Area New Zealand Challenger Plateau			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014		

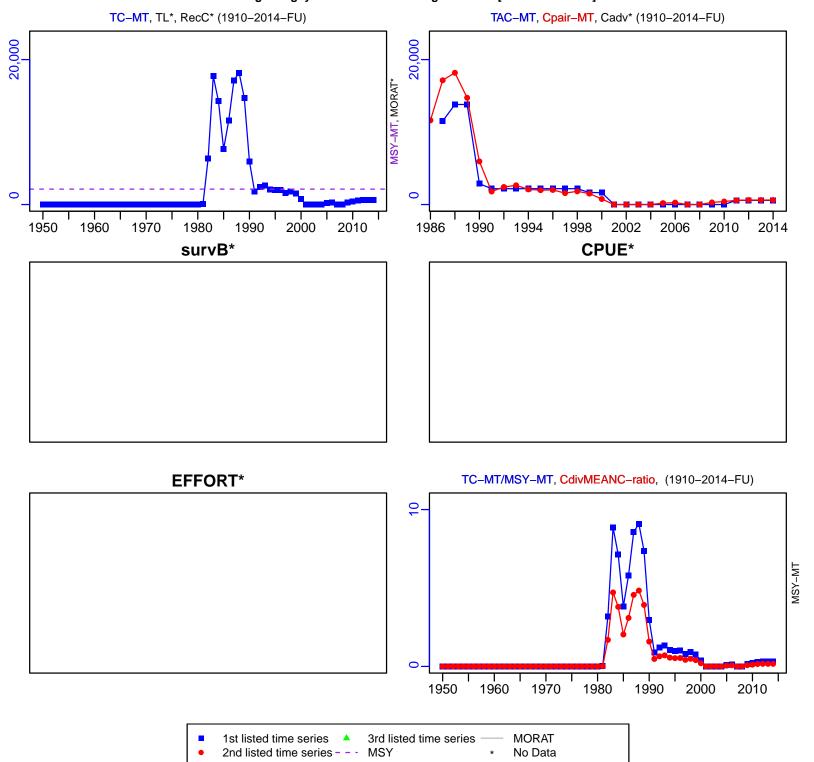
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2014	20,764
SSBmsy	SSBmsy-MT	2014	30,800
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2014	0.089
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	30,800
Fmgt	-	-	-
ERmgt	ERmgt-ratio	2014	0.054
TB0	-	-	-
SSB0	SSB0-MT	2014	88,000
MSY	MSY-MT	2014	1848
М	M-1/yr	2014	0.045
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	0.02	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	1.146		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





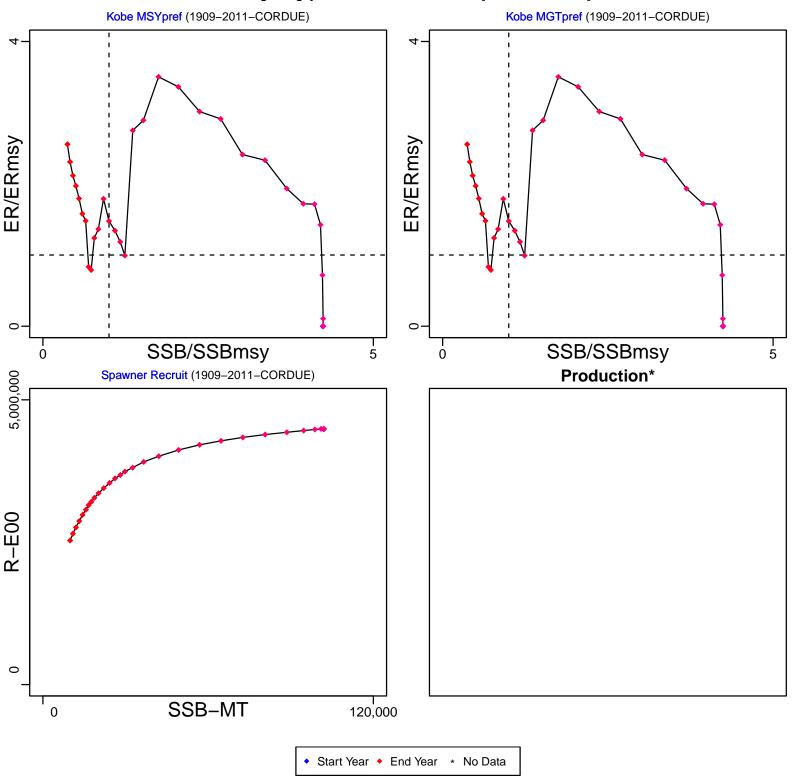
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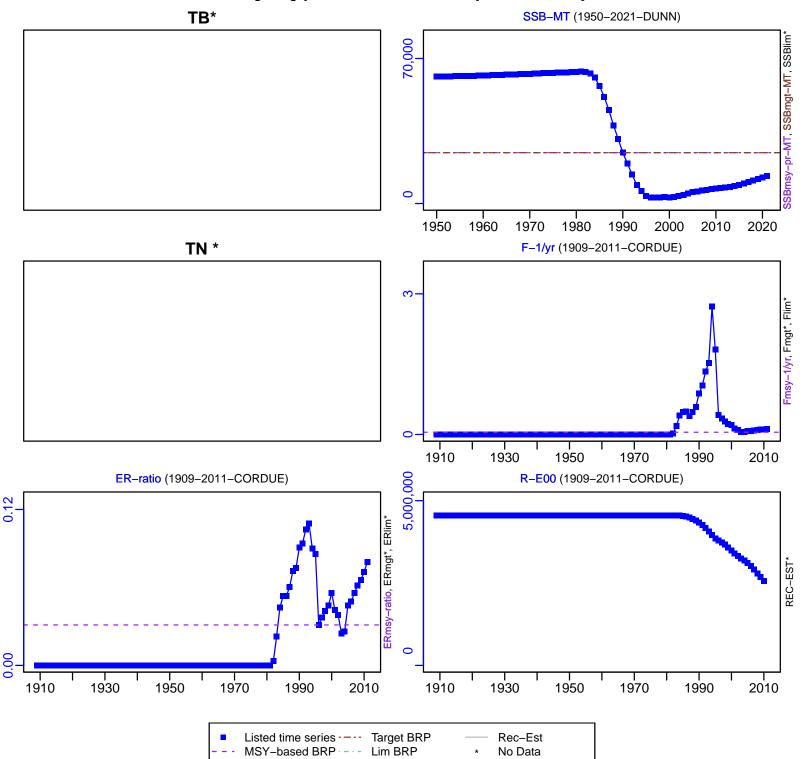


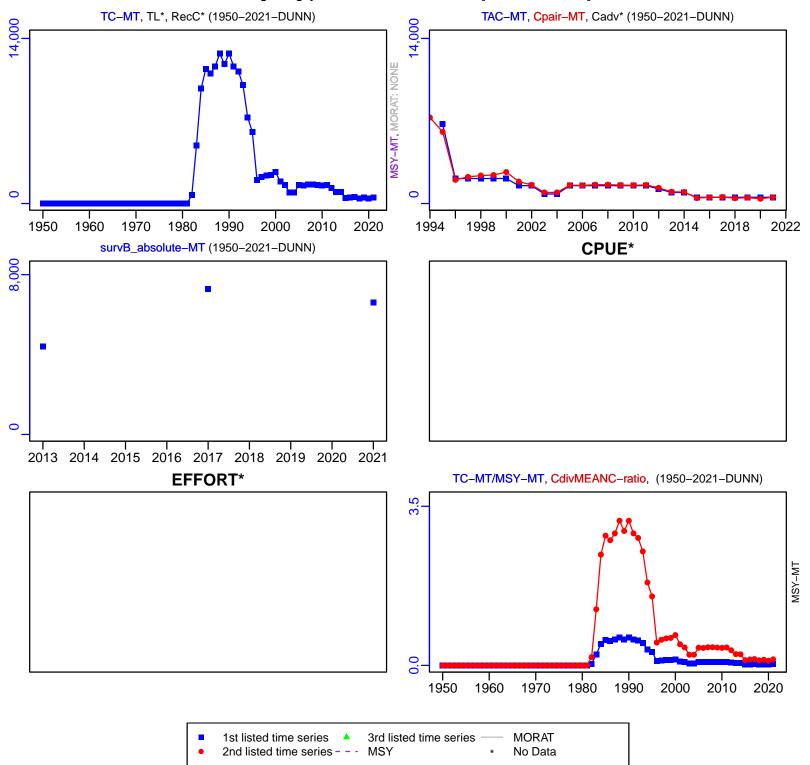
Metadata			
Scientific Name	Hoplostethus atlanticus		
Current Assess ID NIWA-OROUGHYNZMEC-1950-2021-DUNN			
Area New Zealand Mid East Coast			
Management Authority Ministry of Fisheries, New Zealand national management			
Assessor National Institute of Water and Atmospheric Research			
Asmts in RAM	2014, 2011, 2021		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2011	55,297		
SSBmsy	SSBmsy-pr-MT	2021	21,340		
Fmsy	Fmsy-1/yr	2011	0.04		
ERmsy	ERmsy-ratio	2011	0.029		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2021	21,340		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2014	0.051		
TB0	-	-	-		
SSB0	SSB0-MT	2021	53,350		
MSY	MSY-MT	2021	21,340		
M	M-1/yr	2021	0.045		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2021	11,538	Both	60+
TN	-	-	-	-	-
R	R-E00	2011	2,530,000	-	1
F	F-1/yr	2011	0.1	-	-
ER	ER-ratio	2011	0.074	-	-
TC	TC-MT	2021	526		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2021	0.54		
F/Fmsy	FdivFmsy-dimensionless	2011	2.5		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	2.555		
TB/TBmgt		-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	0.541		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



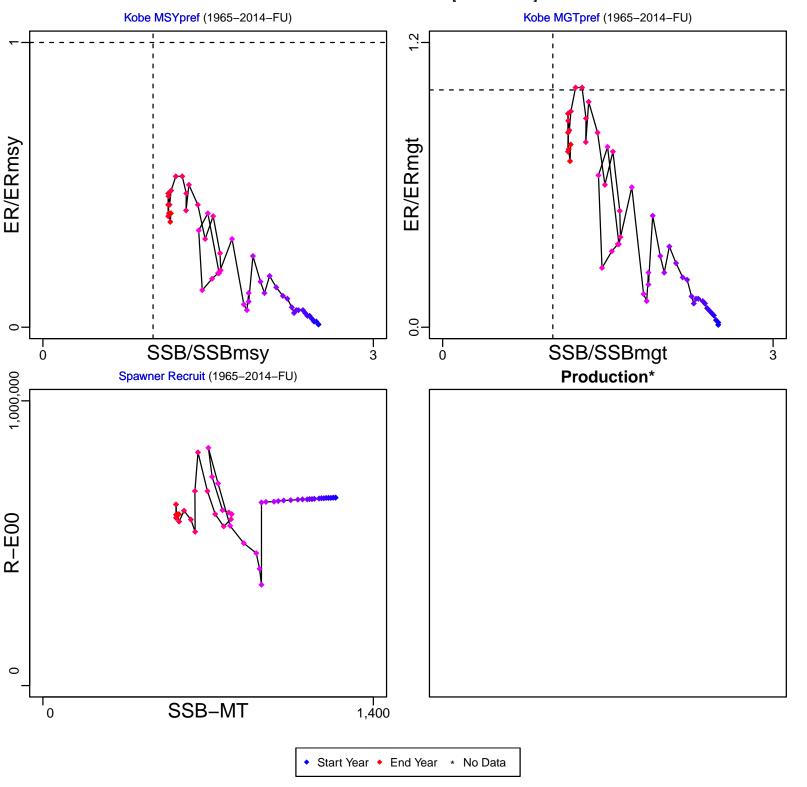


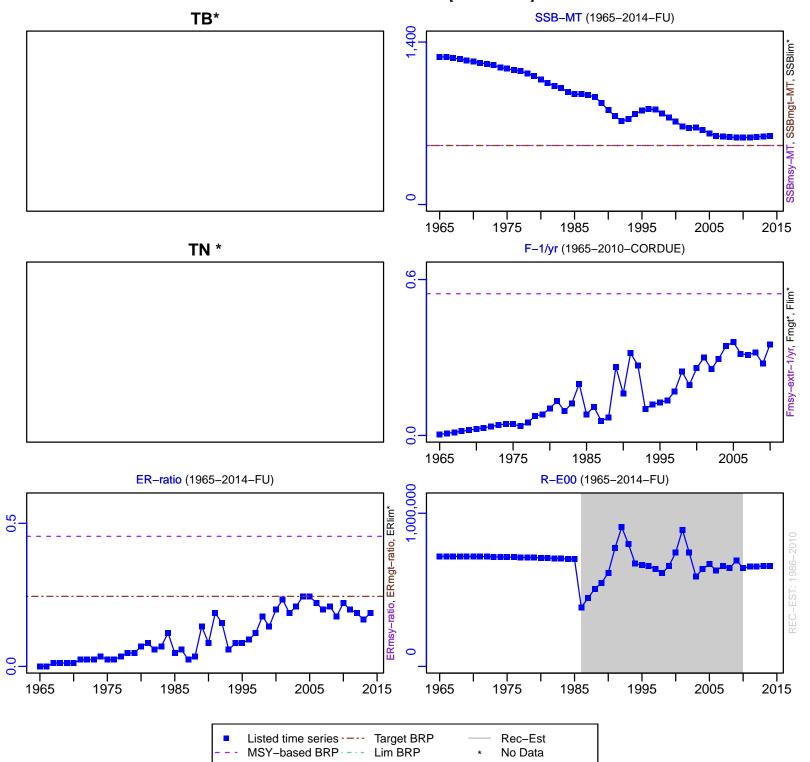


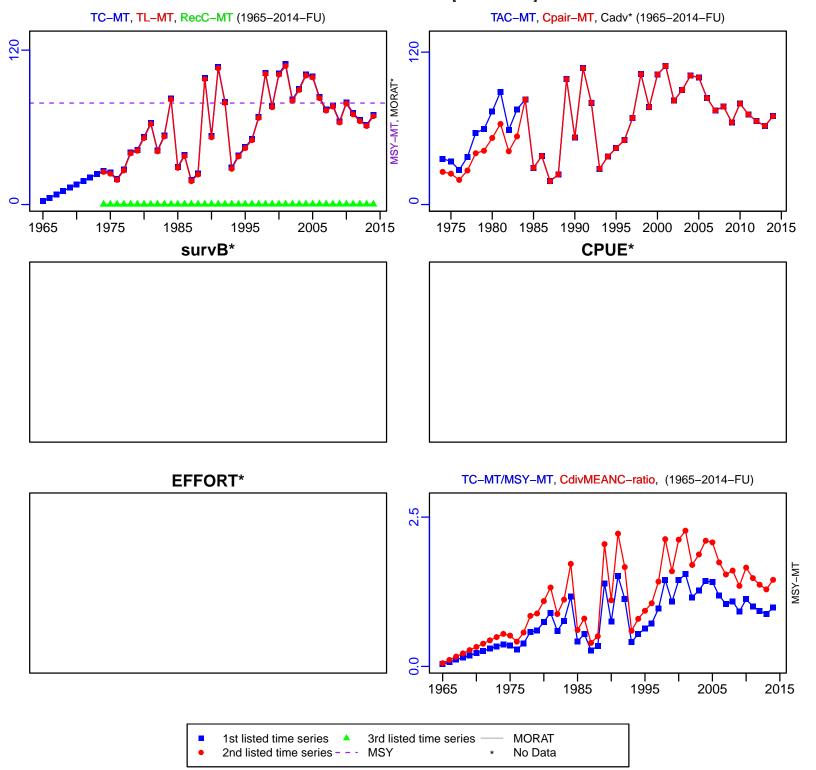
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUANPAU5A-1965-2014-FU		
Area NZ Area North PAUA 5A			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2014		

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2014	187	
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	0.328	-	-
ER	ER-ratio	2014	0.16	Both	-
TC	TC-MT	2014	64		
TL	TL-MT	2014	64		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.162		
F/Fmsy	FdivFmsy-dimensionless	2010	0.643		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.4		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.162		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



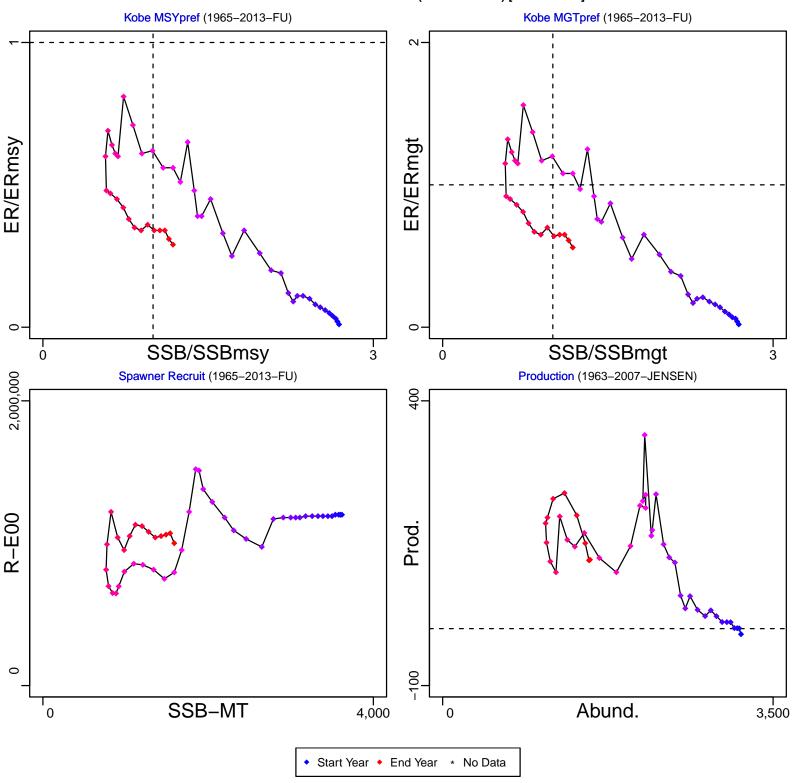


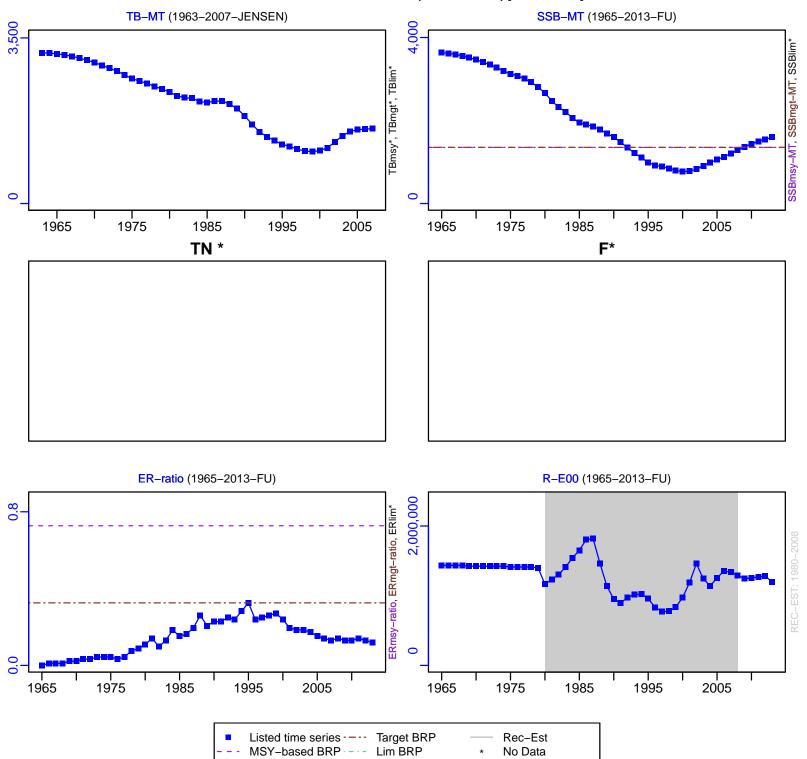


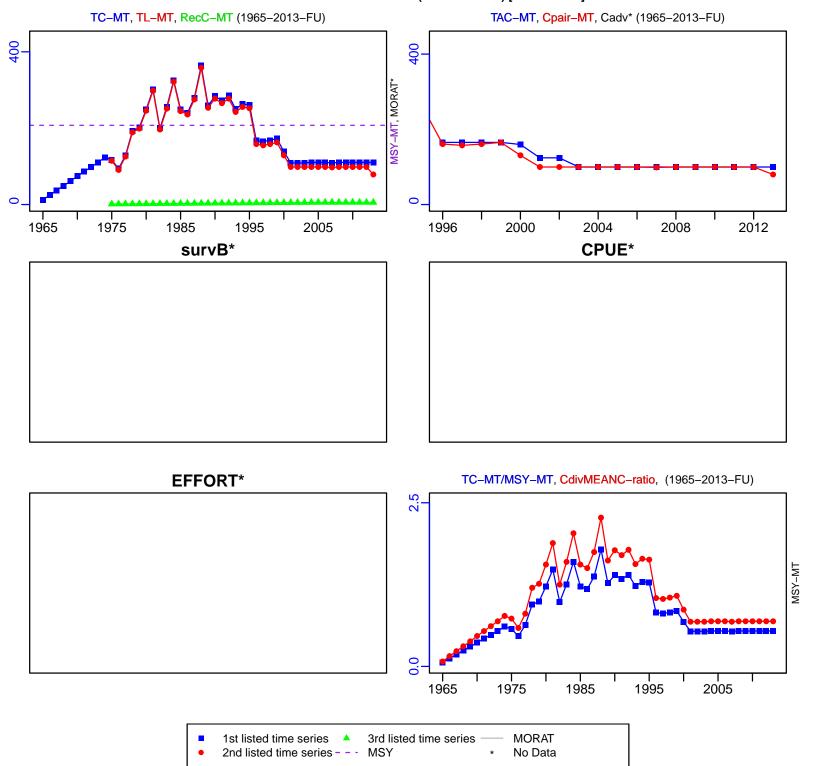
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5B-1965-2013-FU		
Area New Zealand Area PAU 5B (Stewart Island)			
Management Authority Ministry of Fisheries, New Zealand national ma			
Assessor	Shellfish Working Group		
Asmts in RAM	2007, 2013		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2013	284	
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	0.11	Both	-
TC	TC-MT	2013	101		
TL	TL-MT	2013	72		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.181		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2013	0.29		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.181		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



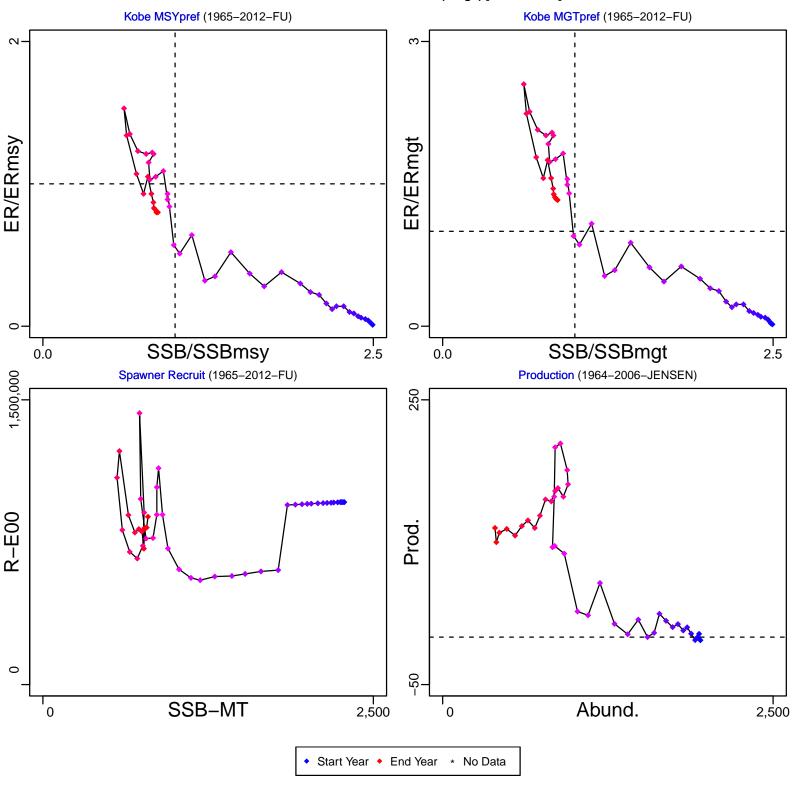


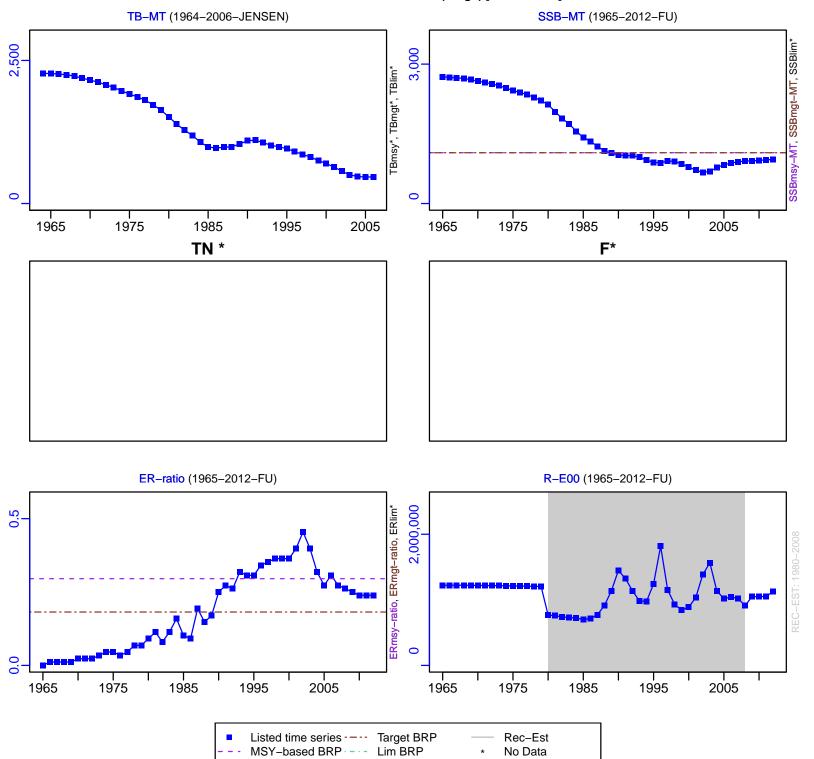


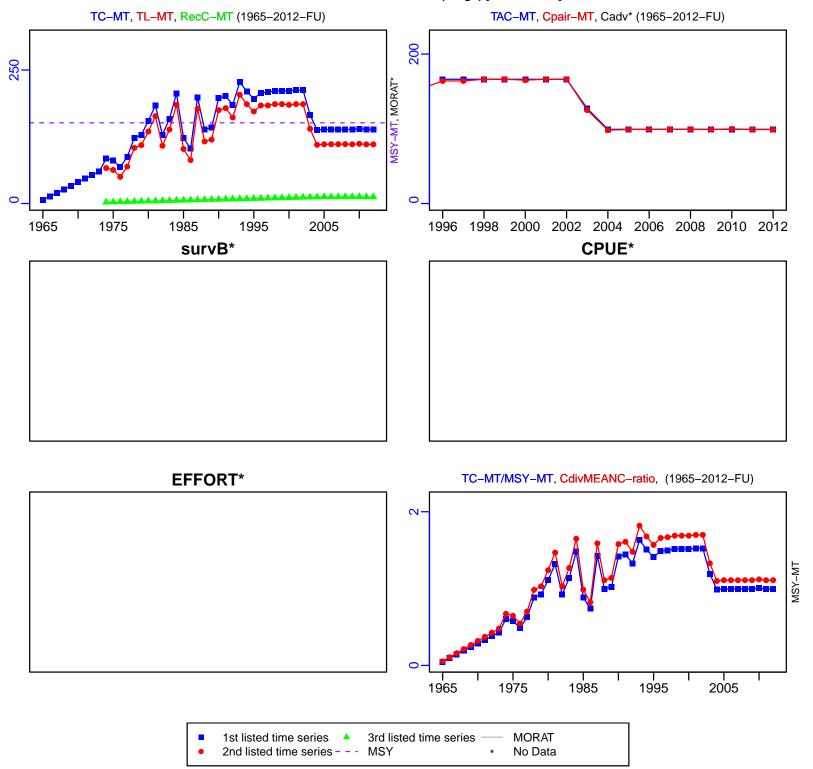
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5D-1965-2012-FU		
Area New Zealand Area PAU 5D (Otago)			
Management Authority   Ministry of Fisheries, New Zealand national manager			
Assessor	Shellfish Working Group		
Asmts in RAM	2006, 2012		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	465	
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	0.21	Both	-
TC	TC-MT	2012	111		
TL	TL-MT	2012	89		
TB/TBmsy	-	-	-		
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	-	-	-		







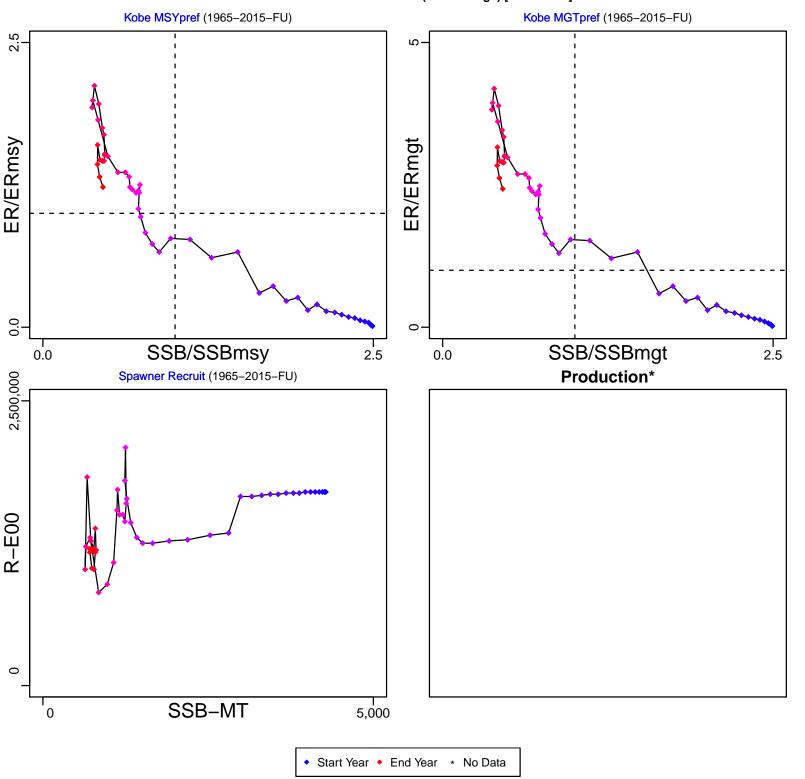
# Paua New Zealand Area PAU 7 (Marlborough) [PAUAPAU7]

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			

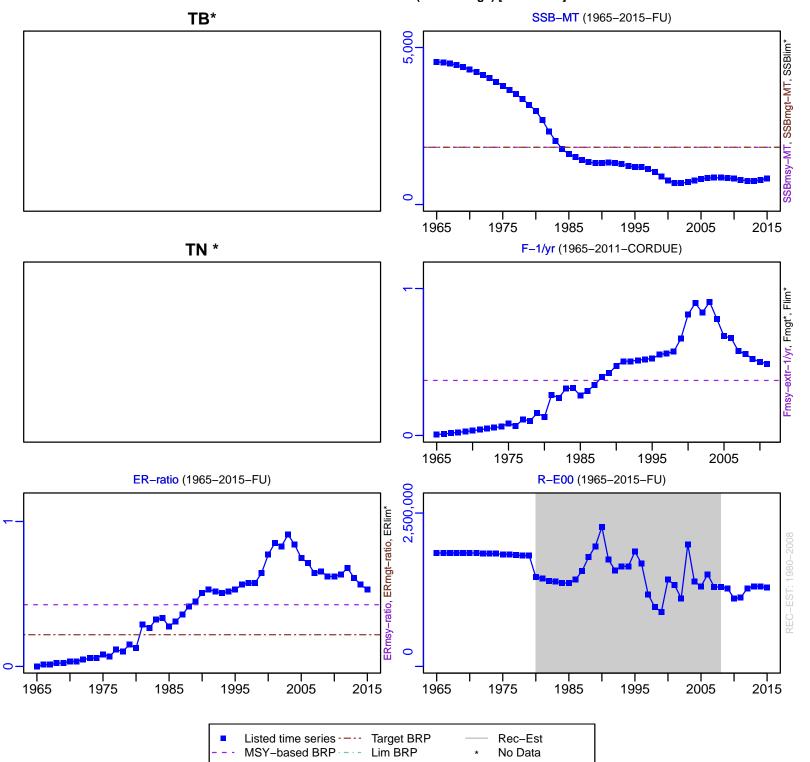
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2015	559			
SSBmsy	SSBmsy-MT	2015	1716			
Fmsy	Fmsy-extr-1/yr	2011	0.33			
ERmsy	ERmsy-ratio	2015	0.37			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2015	1716			
Fmgt	-	-	-			
ERmgt	ERmgt-ratio	2015	0.19			
TB0	-	-	-			
SSB0	SSB0-MT	2015	4291			
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	0.429	-	-		
ER	ER-ratio	2015	0.46	Both	-		
TC	TC-MT	2015	143				
TL	TL-MT	2015	135				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.454				
F/Fmsy	FdivFmsy-dimensionless	2011	1.3				
ER/ERmsy	ERdivERmsy-dimensionless	2015	1.23				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2015	0.454				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

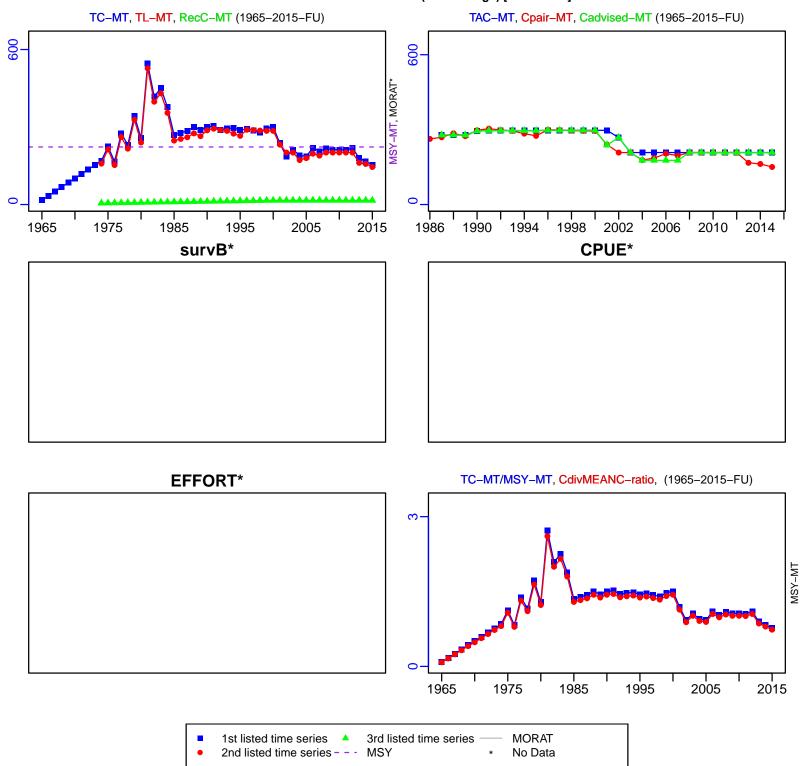
# Paua New Zealand Area PAU 7 (Marlborough) [PAUAPAU7]



### Paua New Zealand Area PAU 7 (Marlborough) [PAUAPAU7]



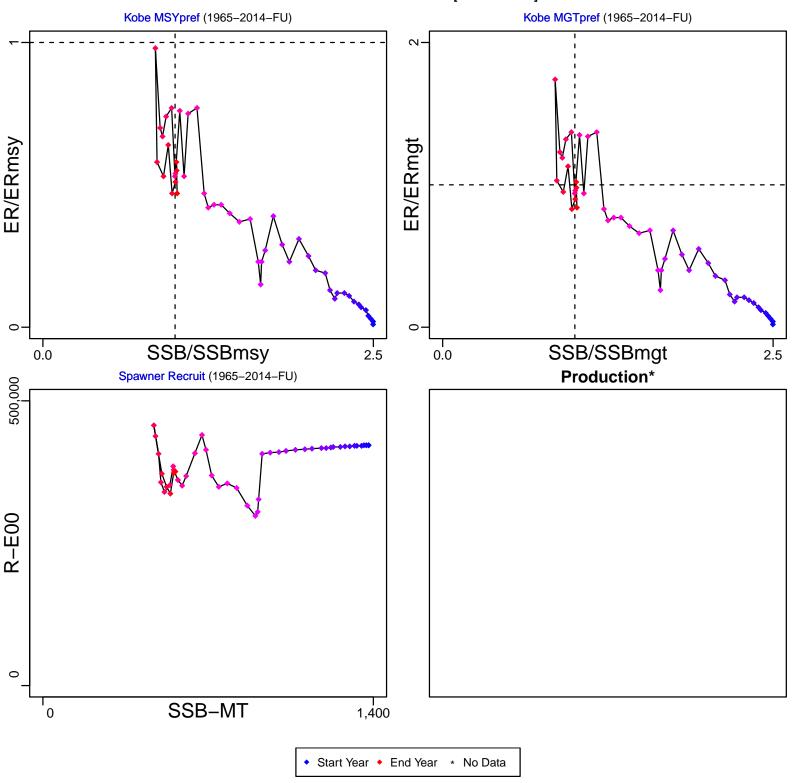
### Paua New Zealand Area PAU 7 (Marlborough) [PAUAPAU7]

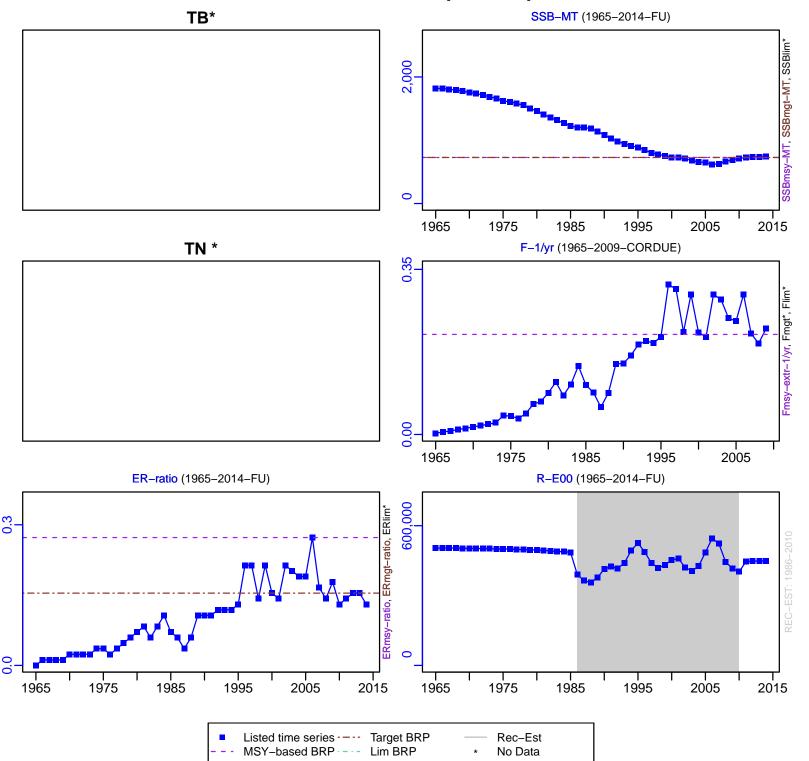


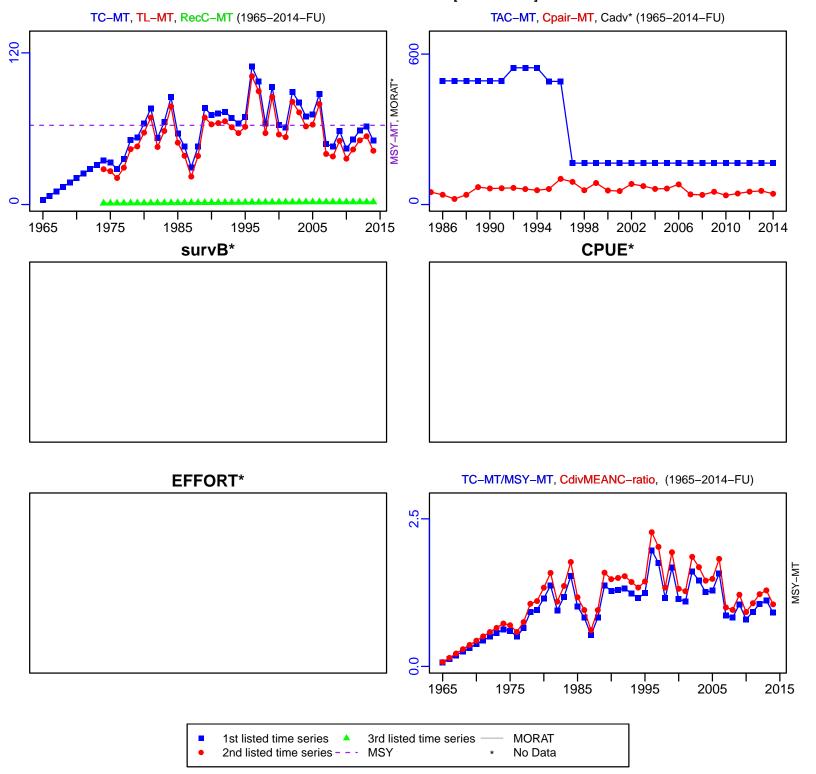
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUASPAU5A-1965-2014-FU		
Area NZ Area South PAUA 5A			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009, 2014		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2014	248	
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	0.222	-	-	
ER	ER-ratio	2014	0.11	Both	-	
TC	TC-MT	2014	46			
TL	TL-MT	2014	39			
TB/TBmsy	-	-	-			
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.016			
F/Fmsy	FdivFmsy-dimensionless	2009	1.06			
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.47			
TB/TBmgt	-	-	-			
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.016			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



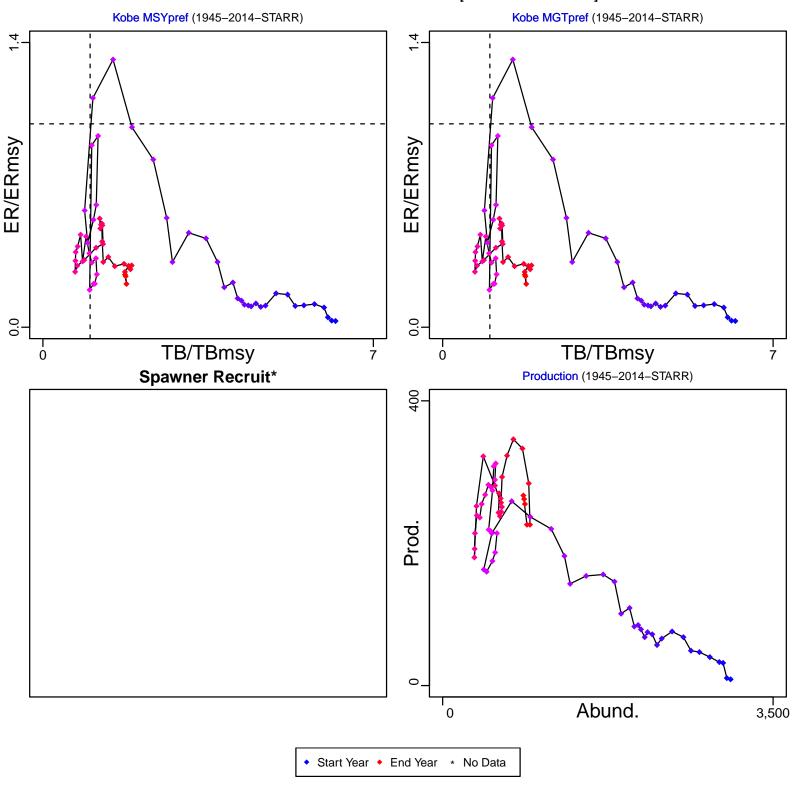


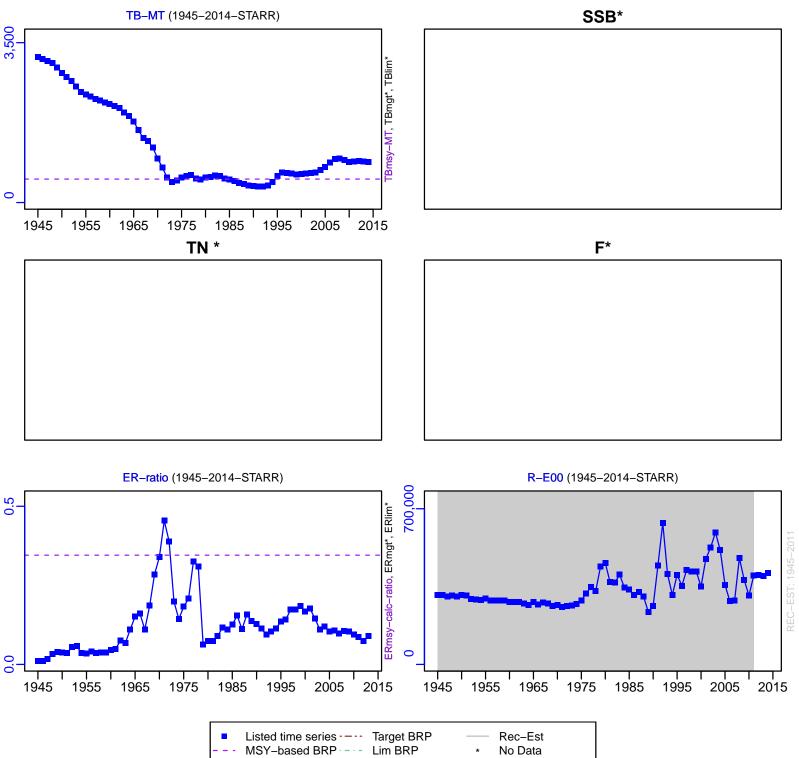


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA1-1945-2014-STARR		
Area New Zealand Area CRA1			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2001, 2014		

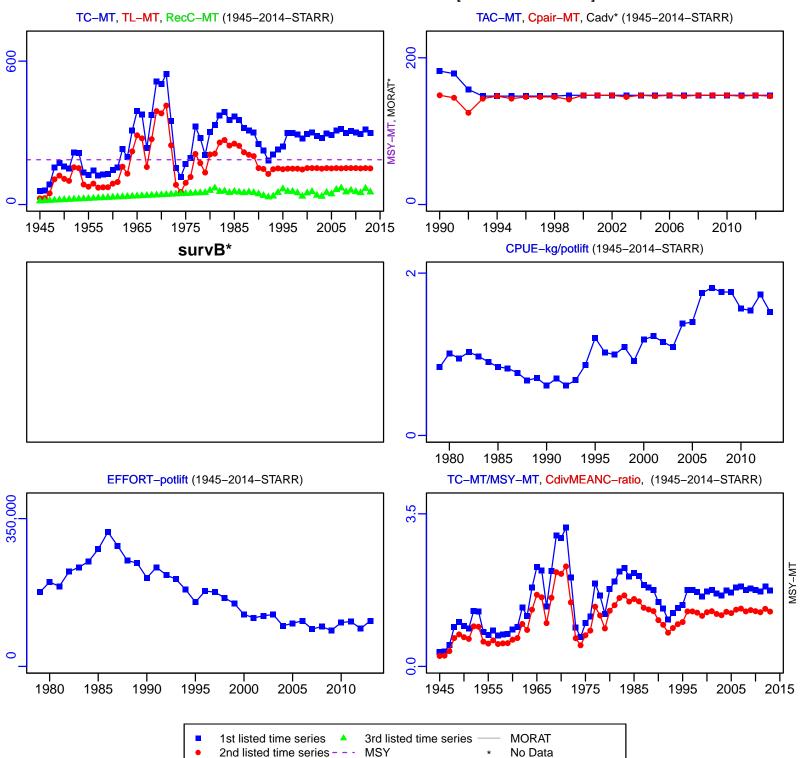
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2014	492	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2014	0.327	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2014	161	
М	M-1/yr	2014	0.125	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.084	Both	-
TC	TC-MT	2014	257		
TL	TL-MT	2014	130		
TB/TBmsy	TB-MT/TBmsy-MT	2014	1.73		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2014	0.258		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





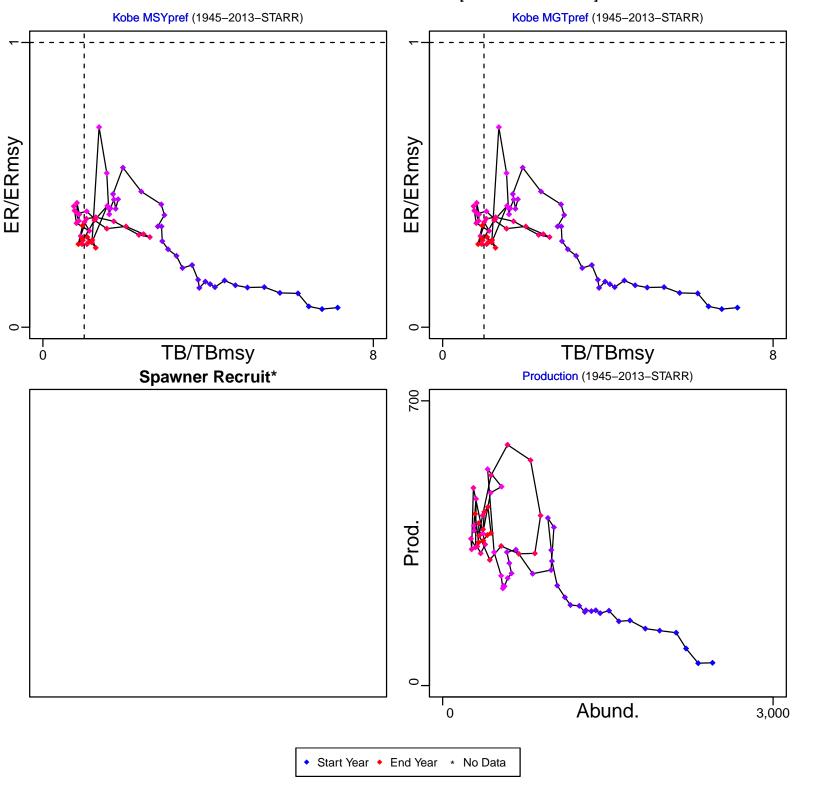
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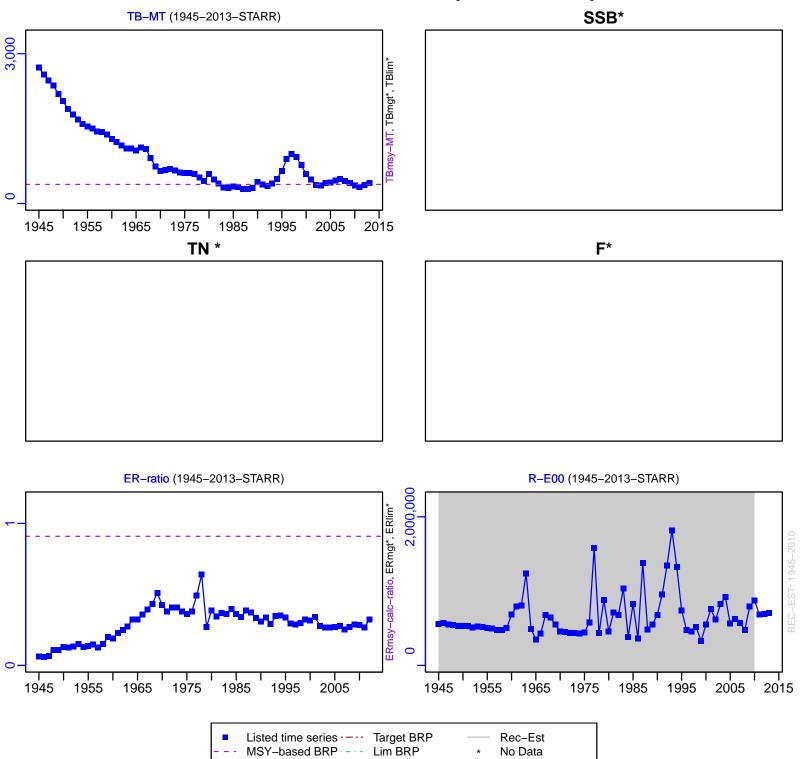


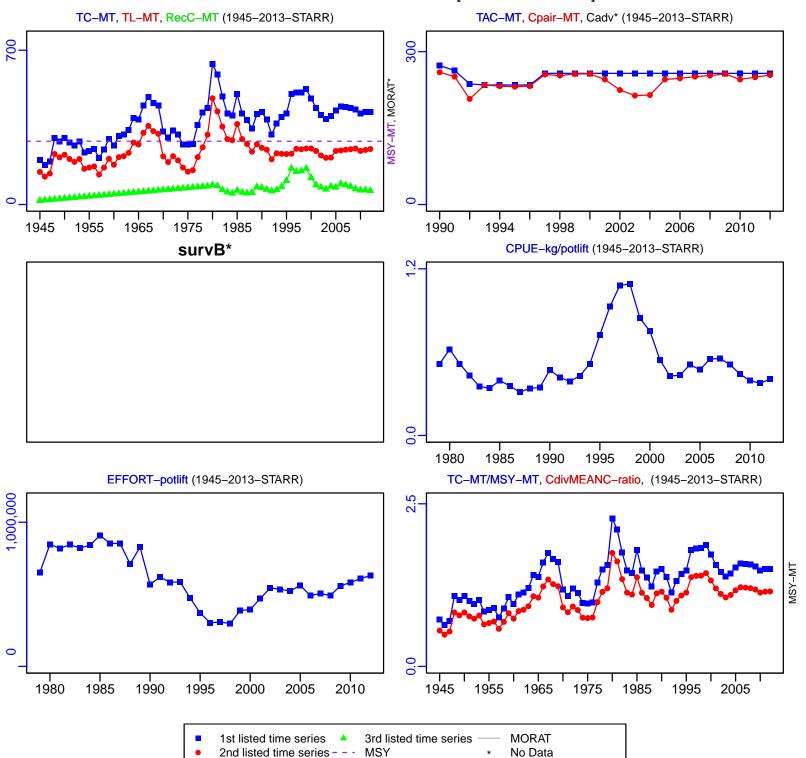
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA2-1945-2013-STARR		
Area New Zealand Area CRA2			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2001, 2013		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2013	343	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2013	0.774	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	266	
М	M-1/yr	2013	0.161	
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	0.276	Both	-
TC	TC-MT	2013	389		
TL	TL-MT	2013	233		
TB/TBmsy	TB-MT/TBmsy-MT	2013	1.066		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2013	0.357		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



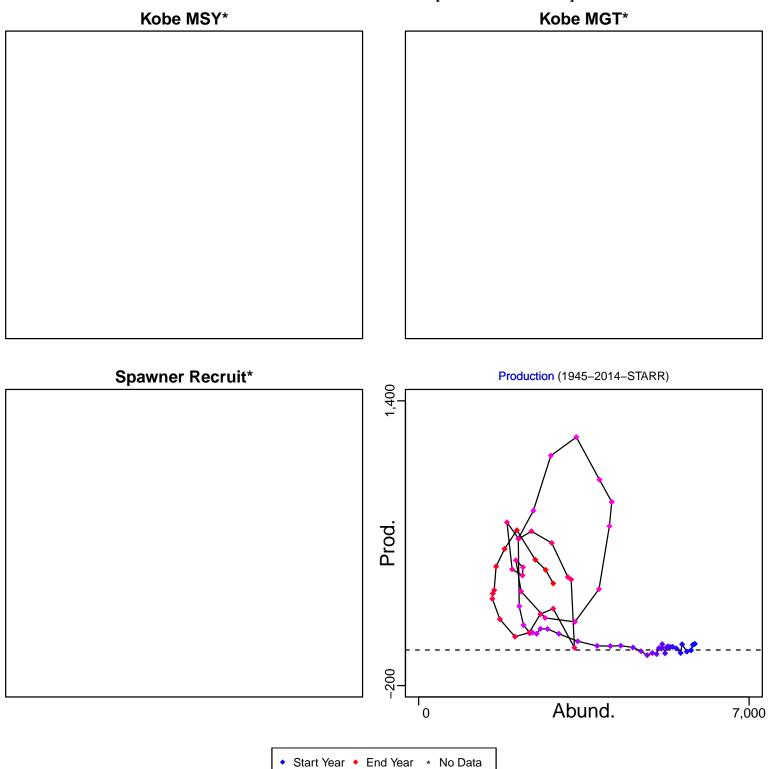


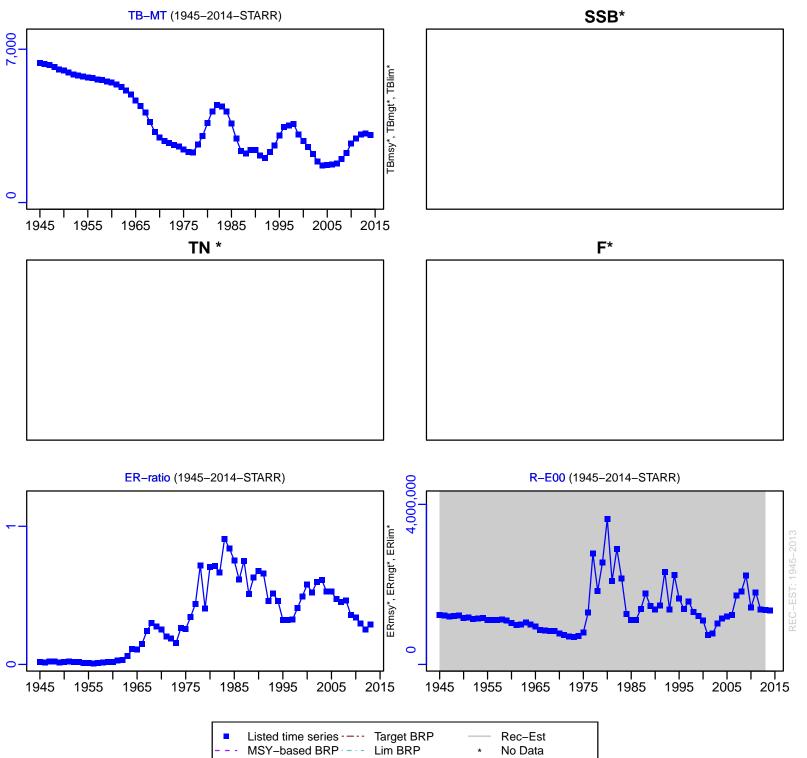


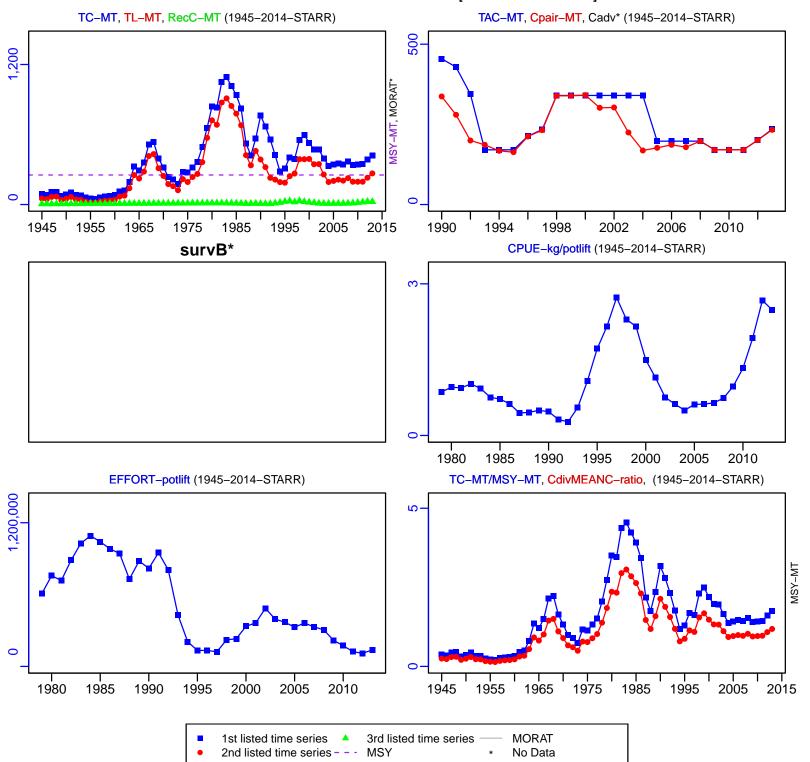
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA3-1945-2014-STARR		
Area New Zealand Area CRA3			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2007, 2014		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2014	212		
M	M-1/yr	2014	0.251		
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	0.238	Both	-
TC	TC-MT	2014	354		
TL	TL-MT	2014	224		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	•	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



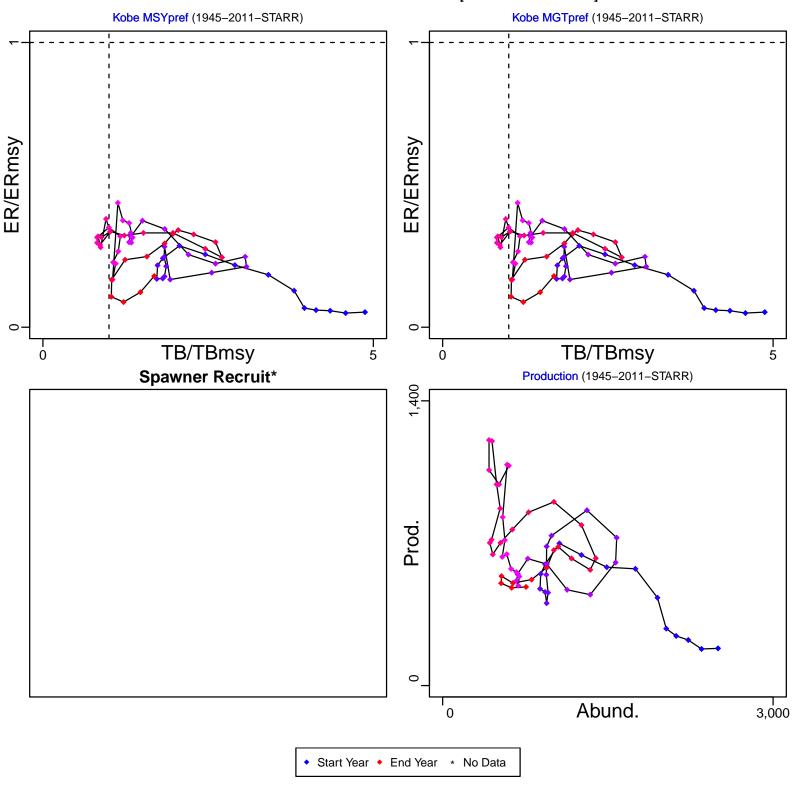


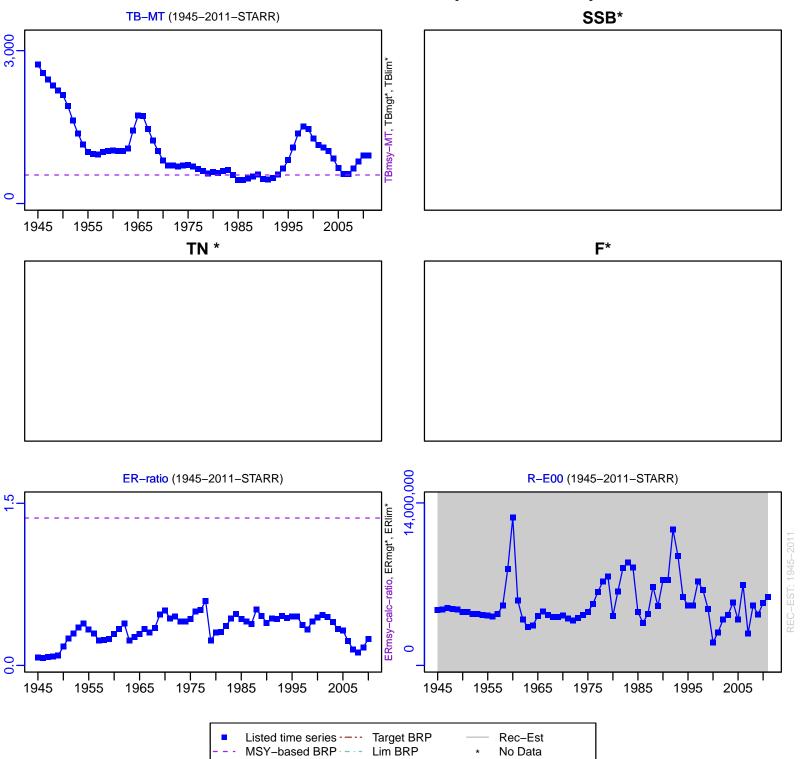


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA4-1945-2011-STARR		
Area	New Zealand Area CRA4		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2005, 2011		

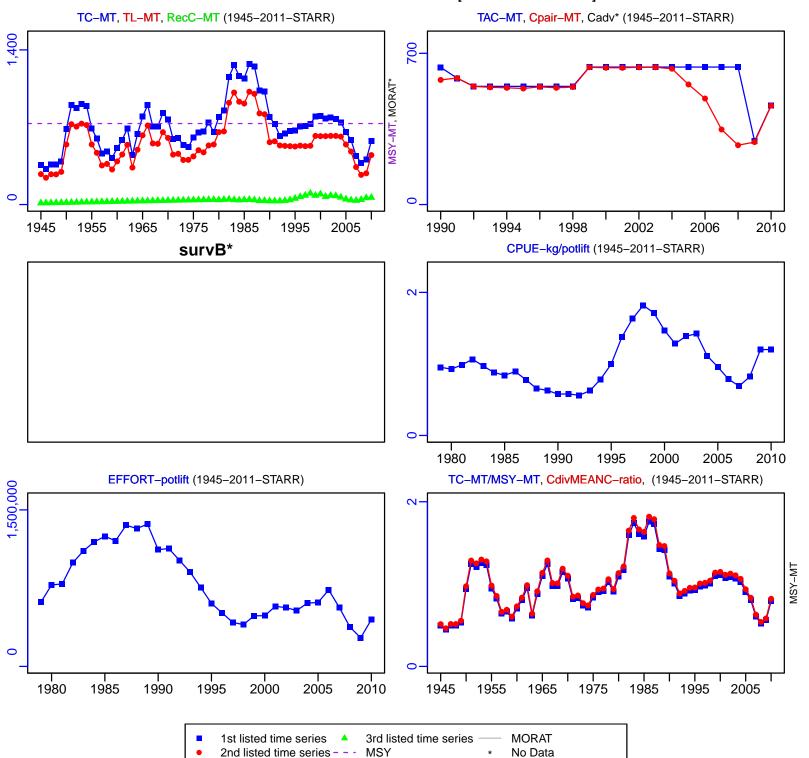
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2011	513		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-calc-ratio	2011	1.326		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2011	680		
M	M-1/yr	2011	0.322		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
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	0.238	Both	-
TC	TC-MT	2011	533		
TL	TL-MT	2011	415		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.682		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2011	0.18		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





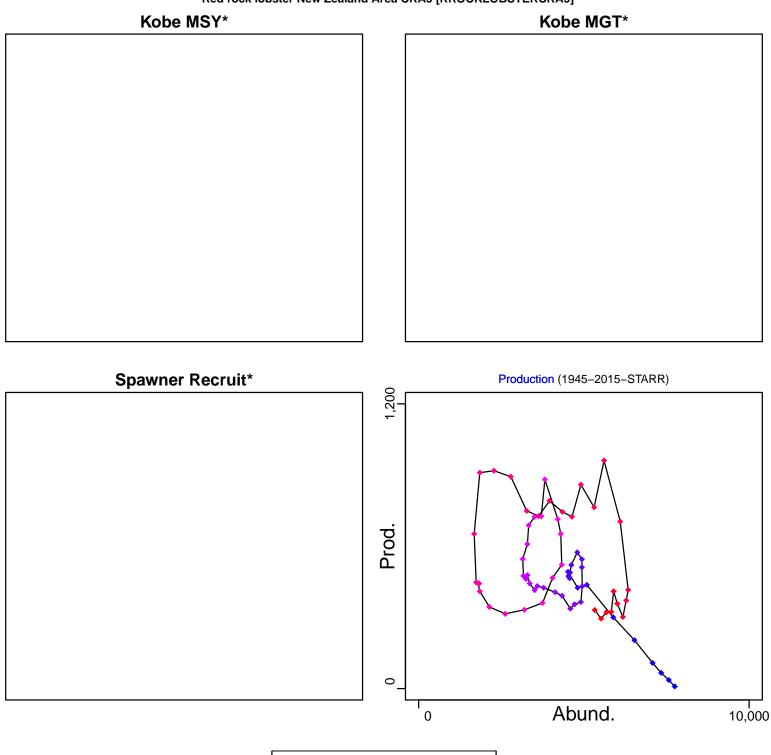
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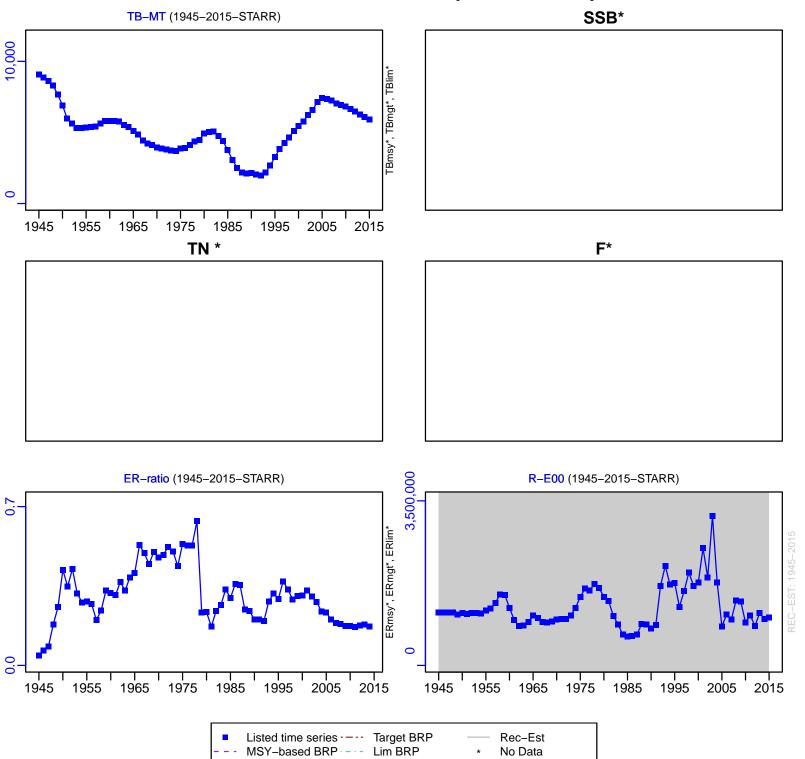
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA5-1945-2015-STARR		
Area New Zealand Area CRA5			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2002, 2015		

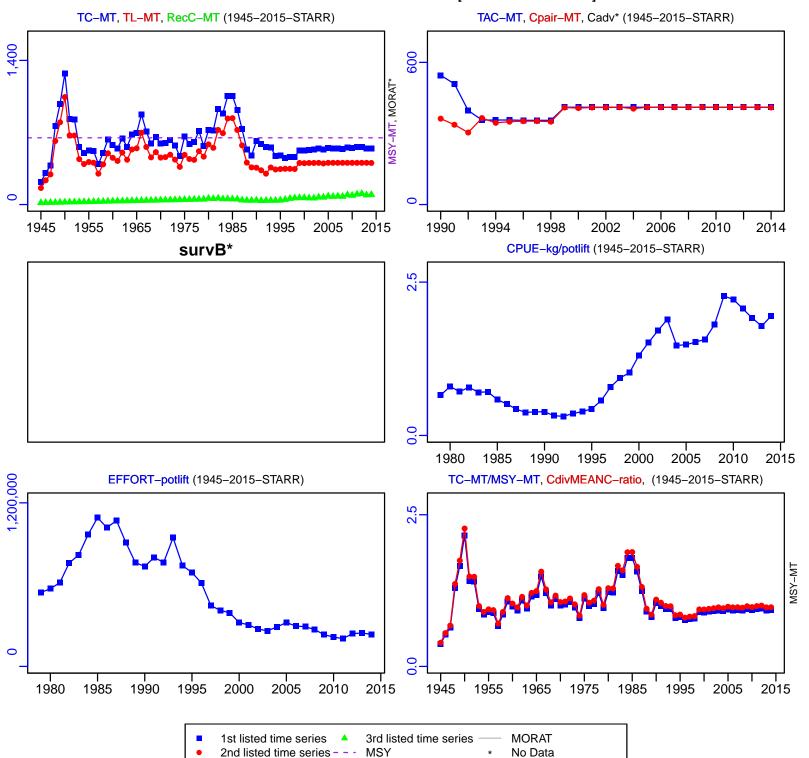
	Reference Points					
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	MSY-MT	2015	560			
M	M-1/yr	2015	0.132			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

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	0.164	Both	-	
TC	TC-MT	2015	472			
TL	TL-MT	2015	349			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



Start Year ◆ End Year \* No Data

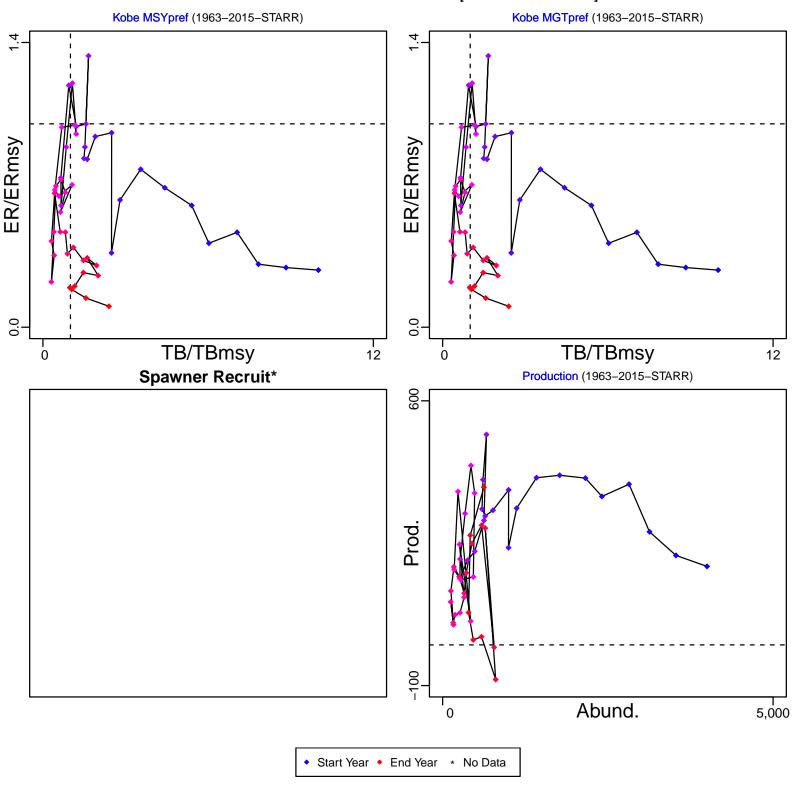


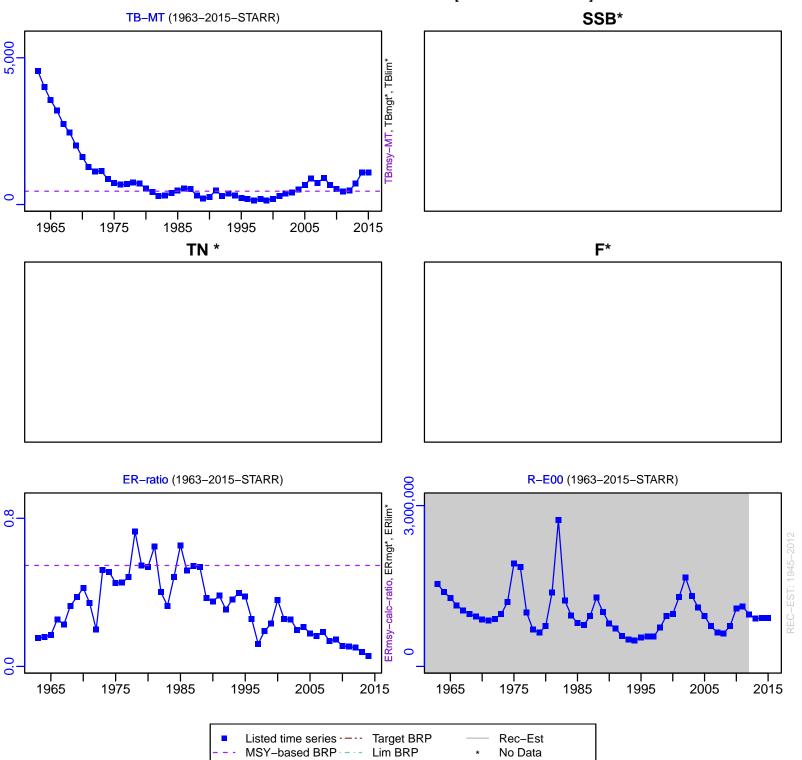


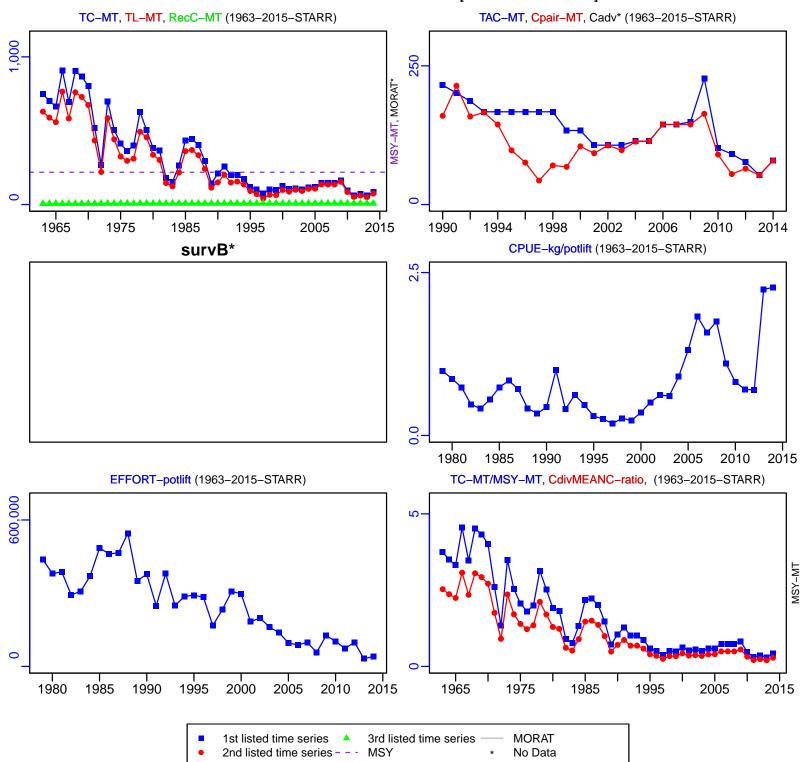
Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA7-1963-2015-STARR		
Area New Zealand Area CRA7			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2015, 2005		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2015	400		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	ERmsy-calc-ratio	2015	0.484		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2015	194		
М	M-1/yr	2015	0.103		
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	0.05	Both	-
TC	TC-MT	2015	75		
TL	TL-MT	2015	66		
TB/TBmsy	TB-MT/TBmsy-MT	2015	2.406		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2015	0.103		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



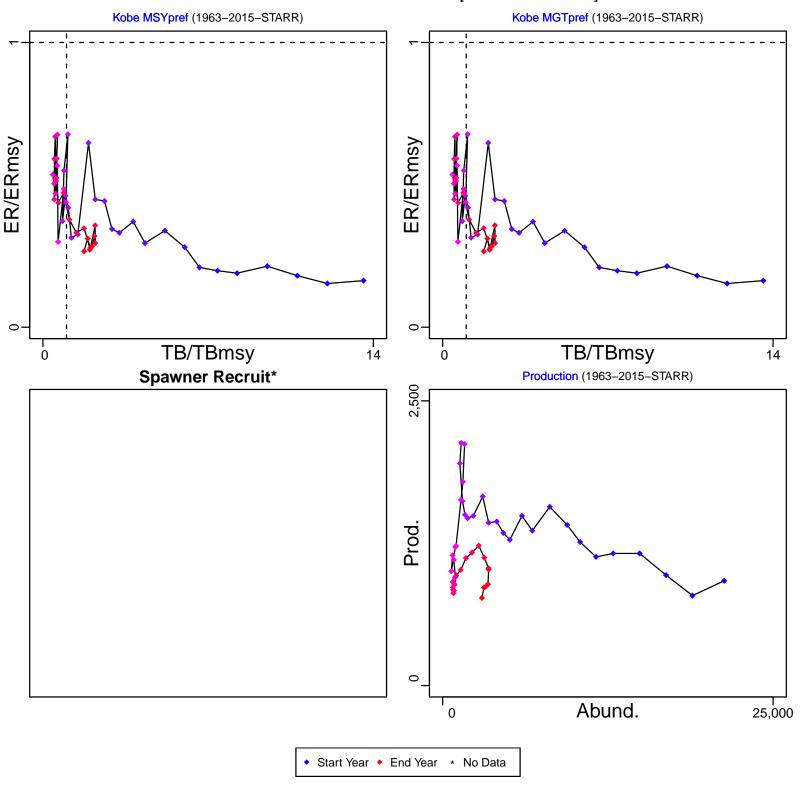


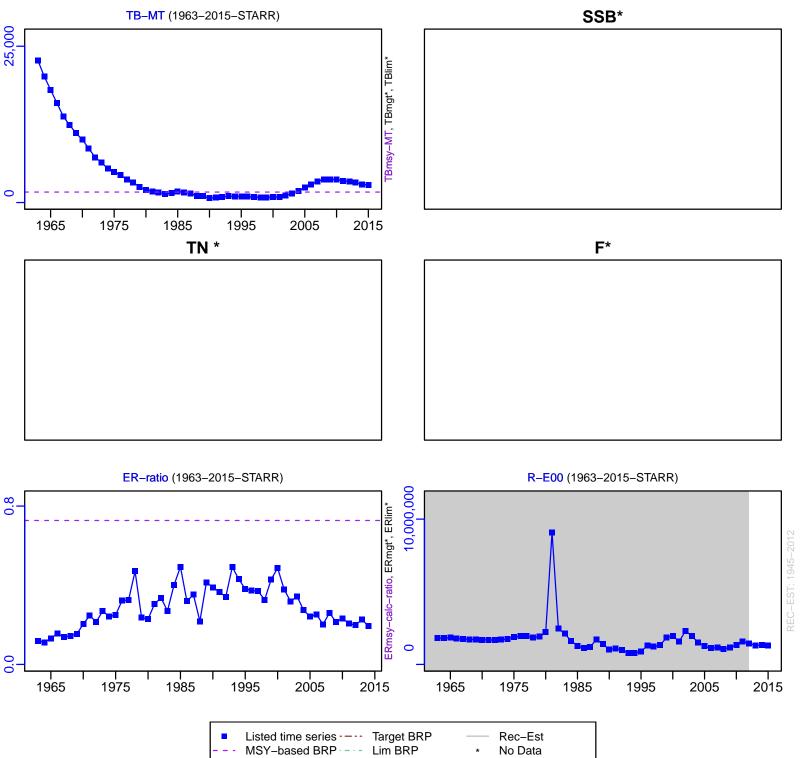


Metadata			
Scientific Name	Jasus edwardsii		
Current Assess ID	NZMFishLOBSTERWG-RROCKLOBSTERCRA8-1963-2015-STARR		
Area	New Zealand Area CRA8		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	Lobster Working Group		
Asmts in RAM	2015, 2005		

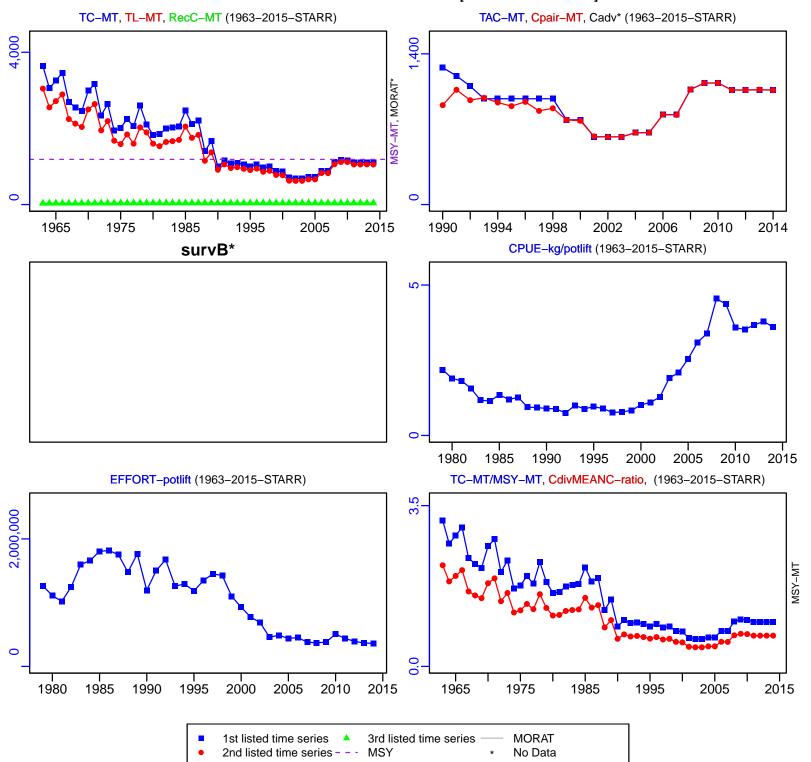
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2015	1568	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-calc-ratio	2015	0.69	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	1083	
М	M-1/yr	2015	0.095	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.184	Both	-
TC	TC-MT	2015	1010		
TL	TL-MT	2015	960		
TB/TBmsy	TB-MT/TBmsy-MT	2015	1.678		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-calc-ratio	2015	0.266		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data

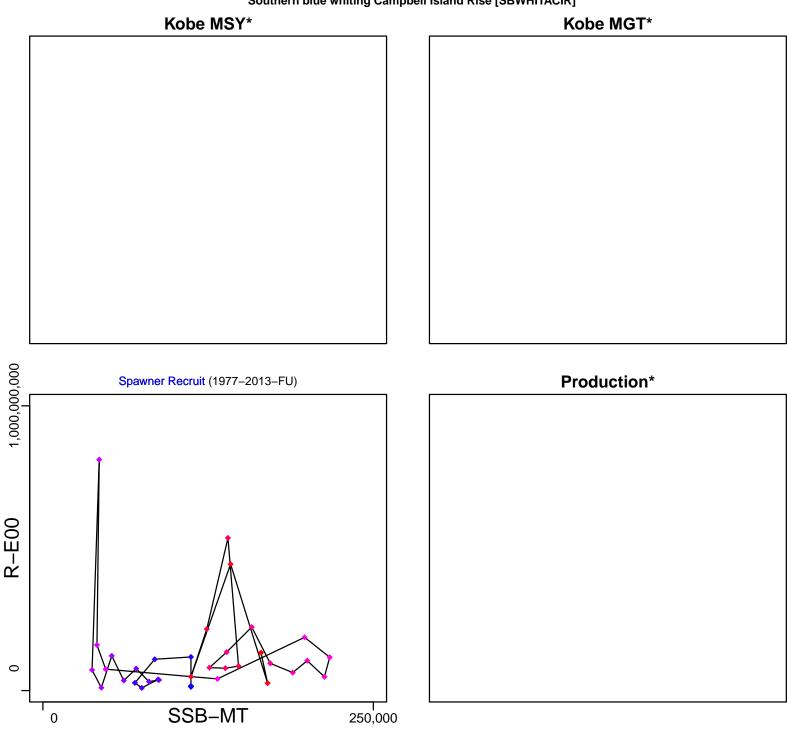


# Southern blue whiting Campbell Island Rise [SBWHITACIR]

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

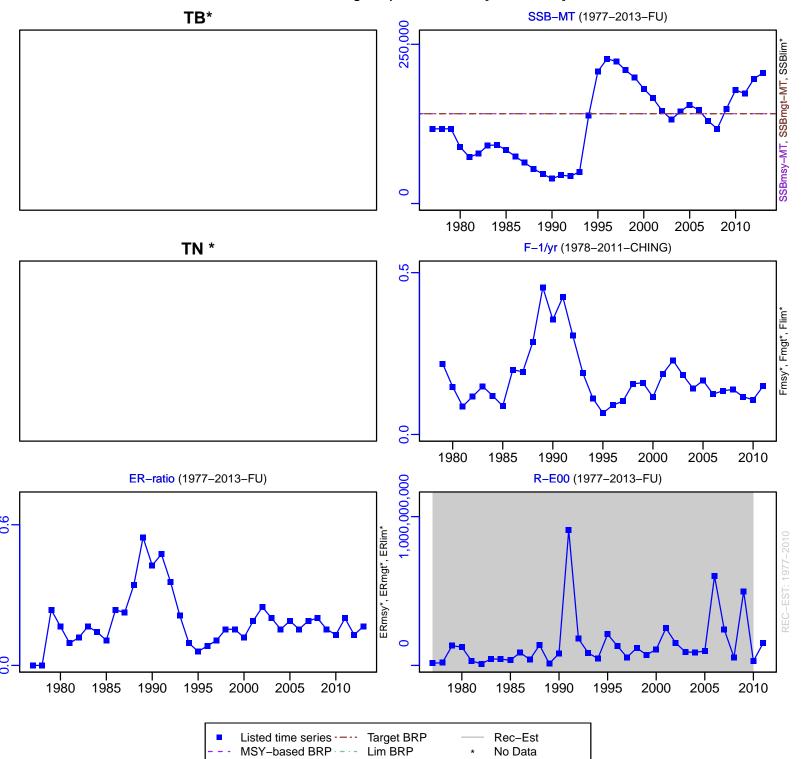
Reference Points						
Type	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	SSBmsy-MT	2013	134,634			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2013	134,634			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	SSB0-MT	2013	336,585			
MSY	-	-	-			
М	M-1/yr	2013	0.2			
TBlim	-	-	-			
SSBlim	-	-	-			
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	0.145	-	-		
ER	ER-ratio	2013	0.14	Both	2 to 15		
TC	TC-MT	2013	28,600				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	1.456				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	1.456				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

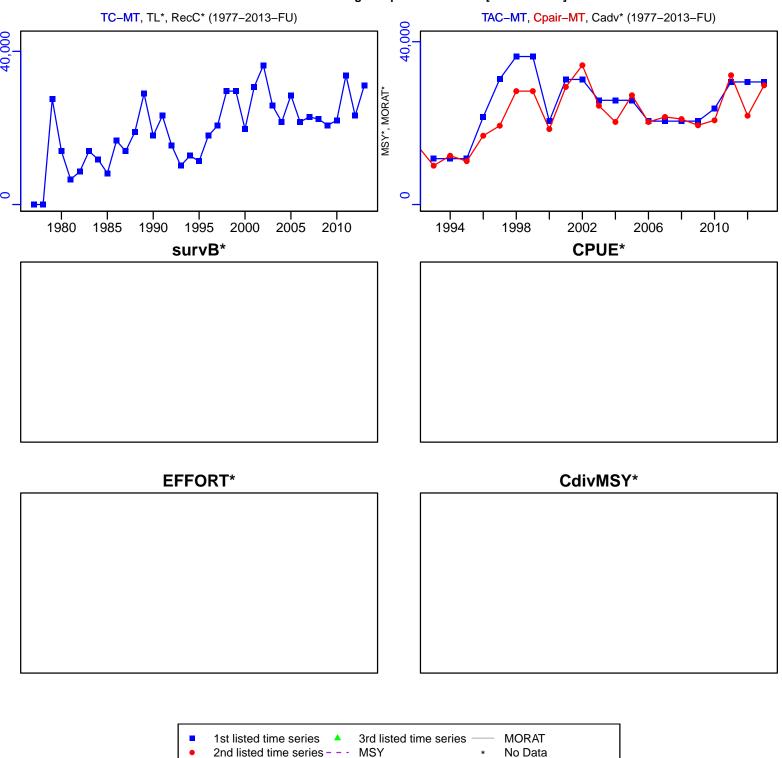


Start Year • End Year \* No Data

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



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

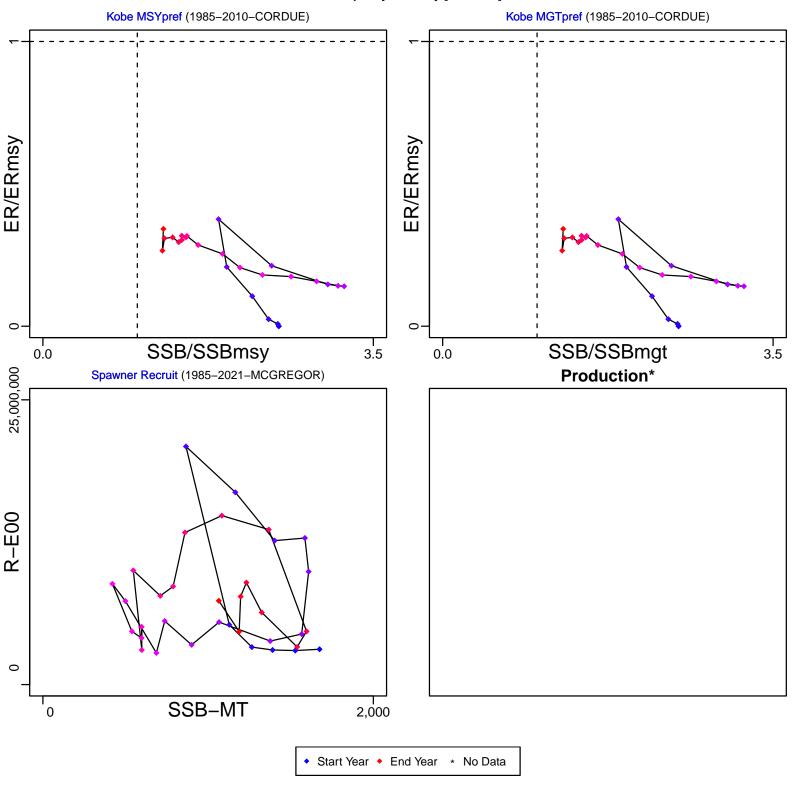


# Scampi Bay of Plenty [SCMPBP]

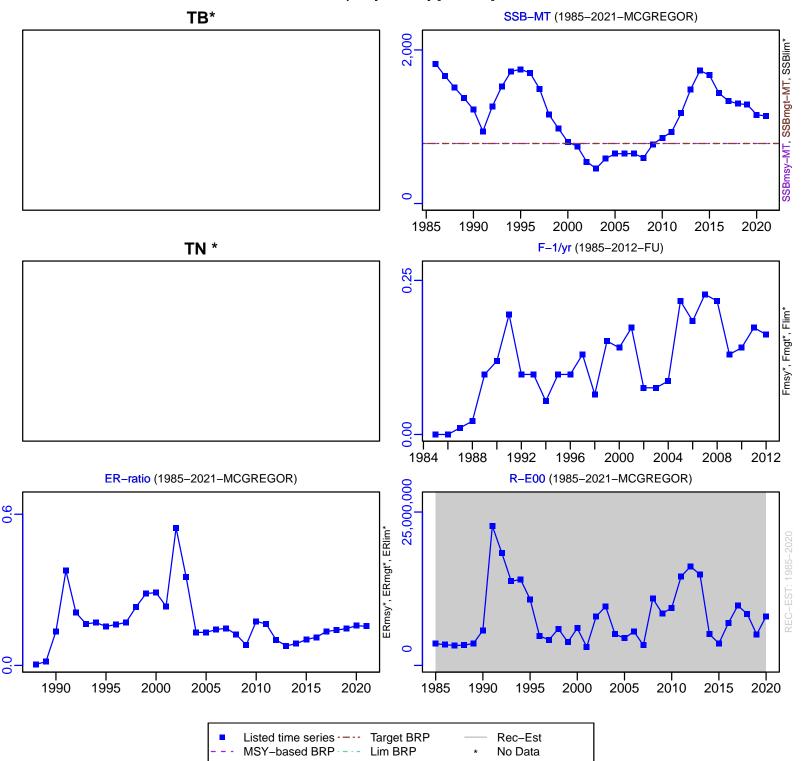
Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID NIWA-SCMPBP-1985-2021-MCGREGOR			
Area Bay of Plenty			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2012, 2019, 2021		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	3805
SSBmsy	SSBmsy-MT	2021	720
Fmsy	Fmsy-1/yr	2010	0.54
ERmsy	ERmsy-ratio	2012	0.09
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	720
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2021	1800
MSY	MSY-MT	2012	342
М	M-1/yr	2021	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

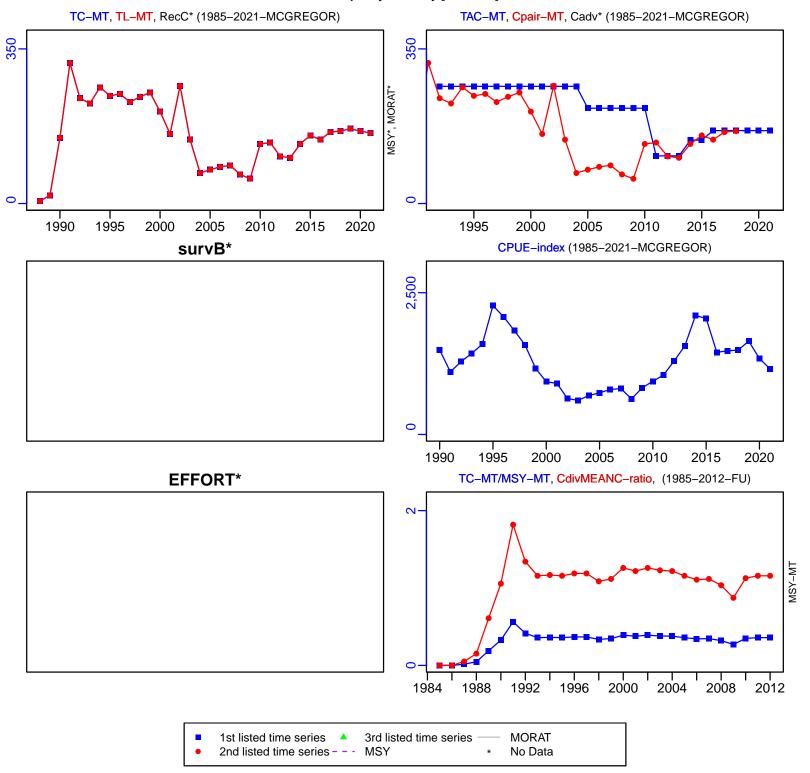
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2021	1050	-	-
TN	-	-	-	-	-
R	R-E00	2021	7,357,490	-	-
F	F-1/yr	2012	0.15	Females	-
ER	ER-ratio	2021	0.141	-	-
TC	TC-MT	2021	148		
TL	TL-MT	2021	148		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2021	1.458		
F/Fmsy	FdivFmsy-dimensionless	2010	0.253		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.342		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.458		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Scampi Bay of Plenty [SCMPBP]



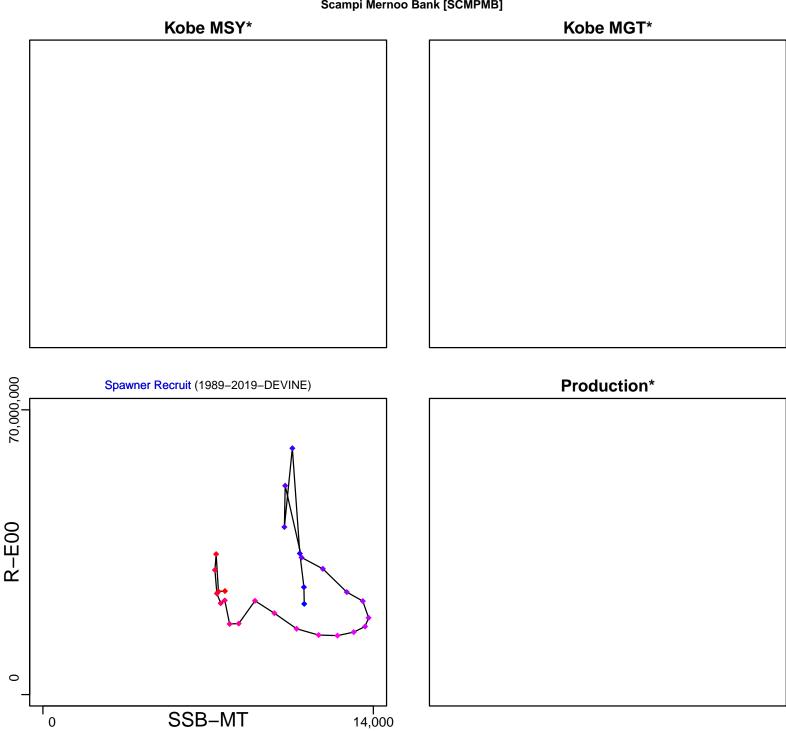
### Scampi Bay of Plenty [SCMPBP]



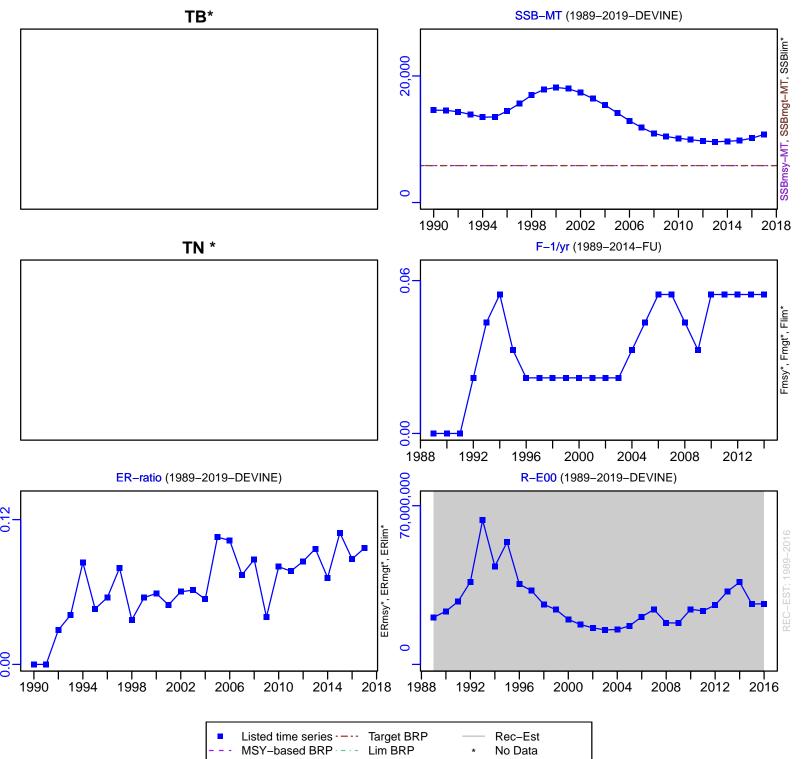
Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPMB-1989-2019-DEVINE		
Area Mernoo Bank			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2014, 2019		

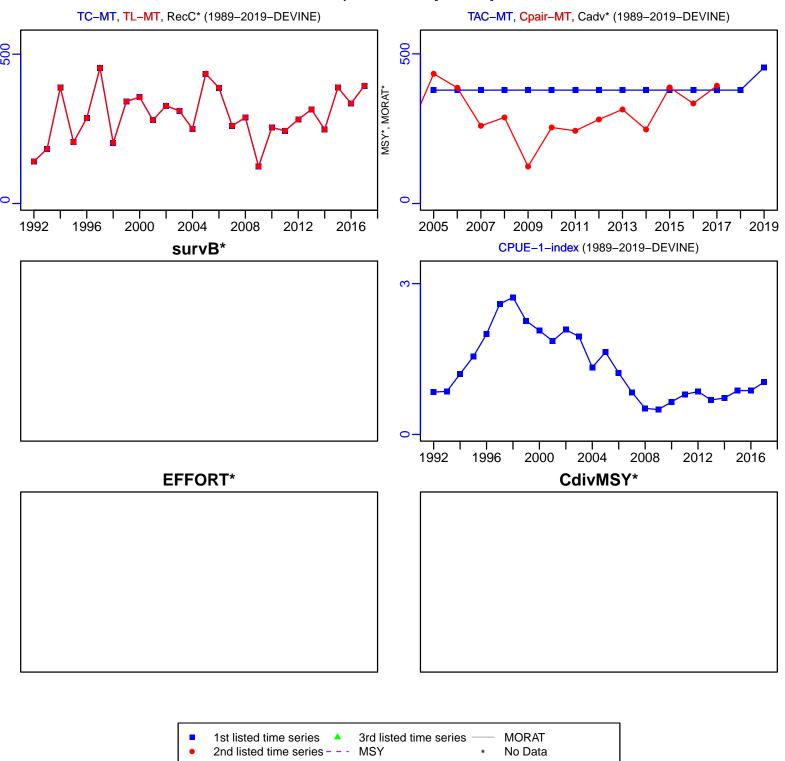
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2019	4429	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2019	4429	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2019	11,072	
MSY	-	-	-	
М	M-1/yr	2014	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	8166	-	-
TN	-	-	-	-	-
R	R-E00	2019	25,457,017	-	1
F	F-1/yr	2014	0.05	Both	-
ER	ER-ratio	2019	0.084	-	-
TC	TC-MT	2019	353		
TL	TL-MT	2019	353		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.844		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.844		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data



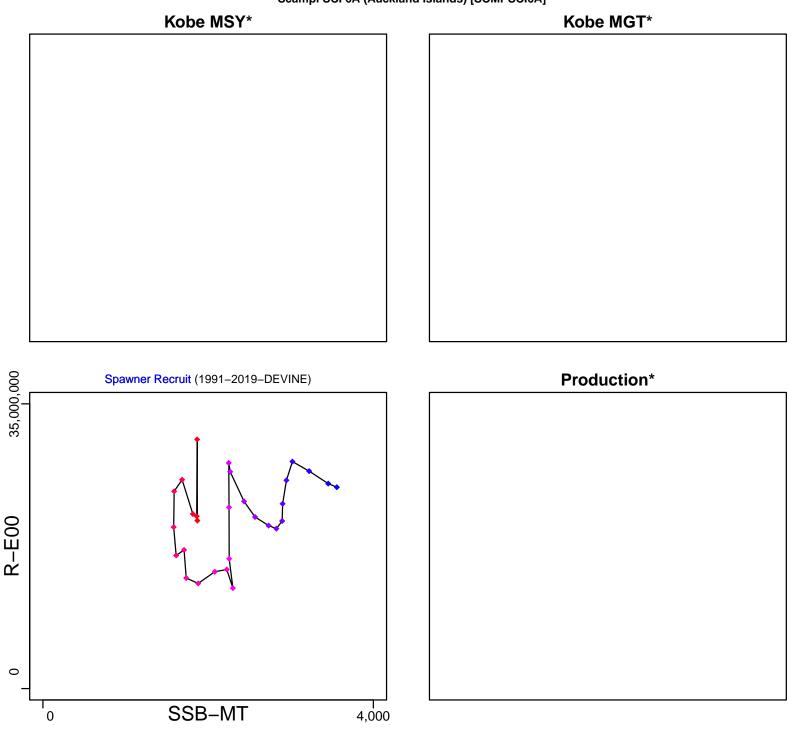


## Scampi SCI 6A (Auckland Islands) [SCMPSCI6A]

Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPSCI6A-1991-2019-DEVINE		
Area SCI 6A (Auckland Islands)			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2019		

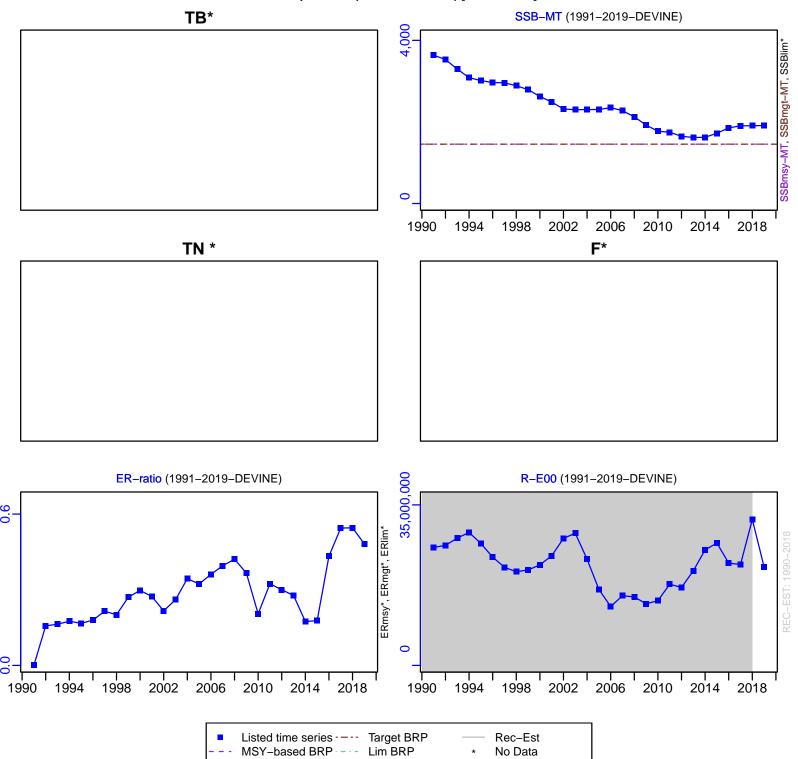
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2019	1424	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2019	1424	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2019	3559	
MSY	-	-	-	
М	M-1/yr	2019	0.25	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	1870	-	-
TN	-	-	-	-	-
R	R-E00	2019	20,650,716	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.437	-	-
TC	TC-MT	2019	257		
TL	TL-MT	2019	257		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.313		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.313		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

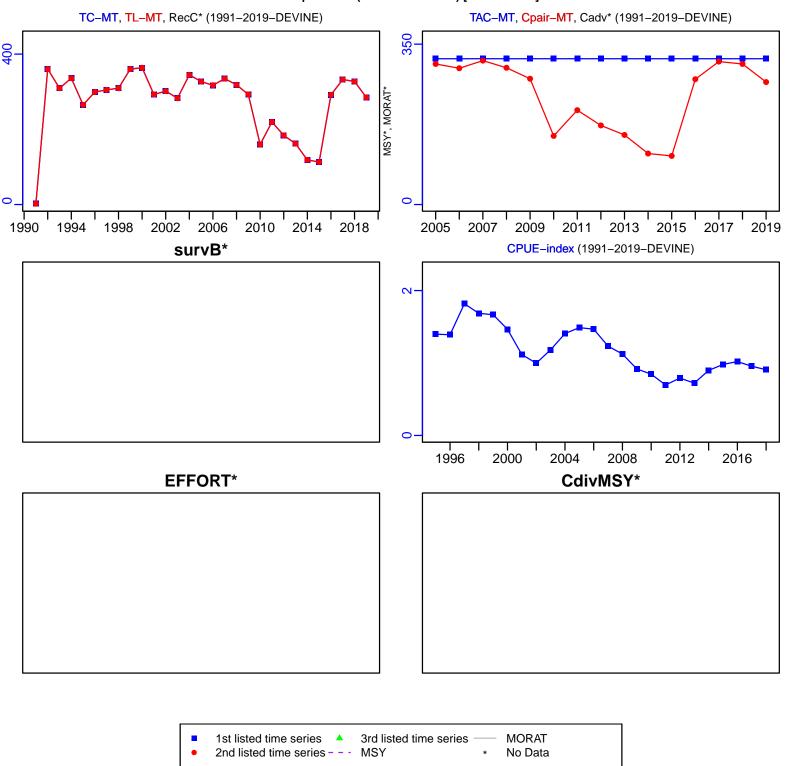


Start Year → End Year → No Data

#### Scampi SCI 6A (Auckland Islands) [SCMPSCI6A]



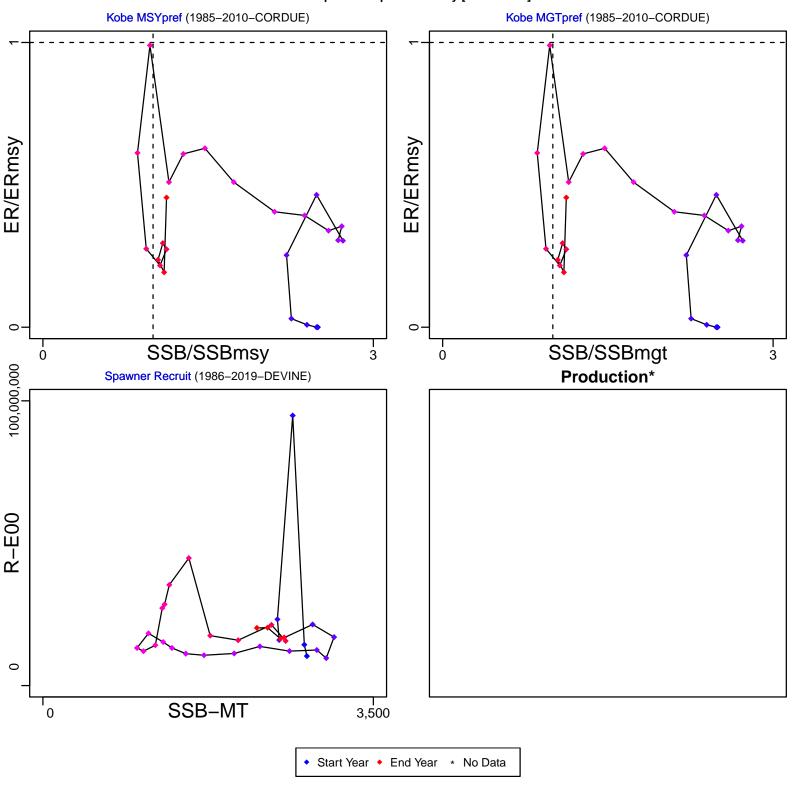
### Scampi SCI 6A (Auckland Islands) [SCMPSCI6A]

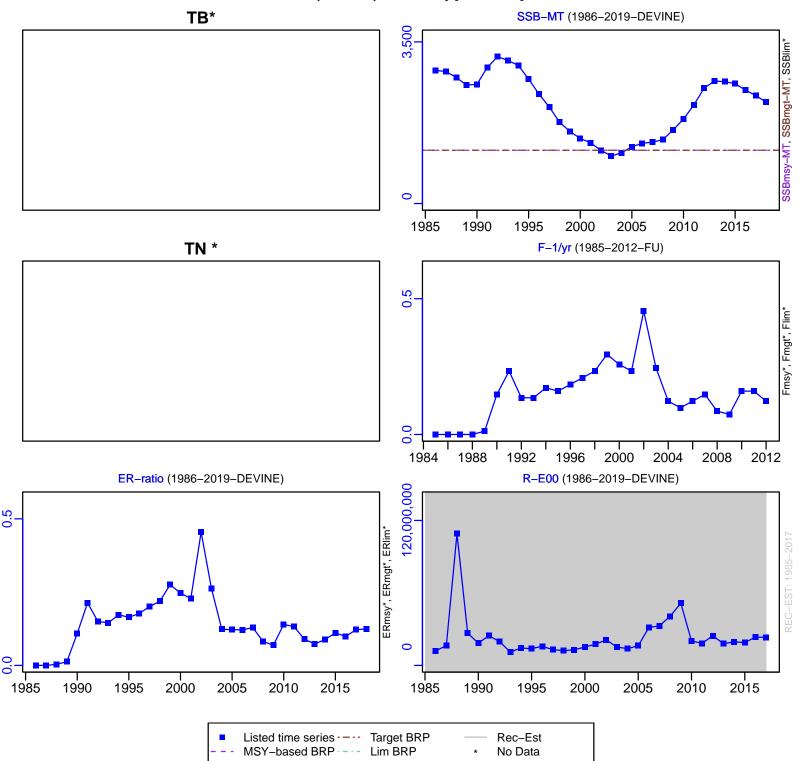


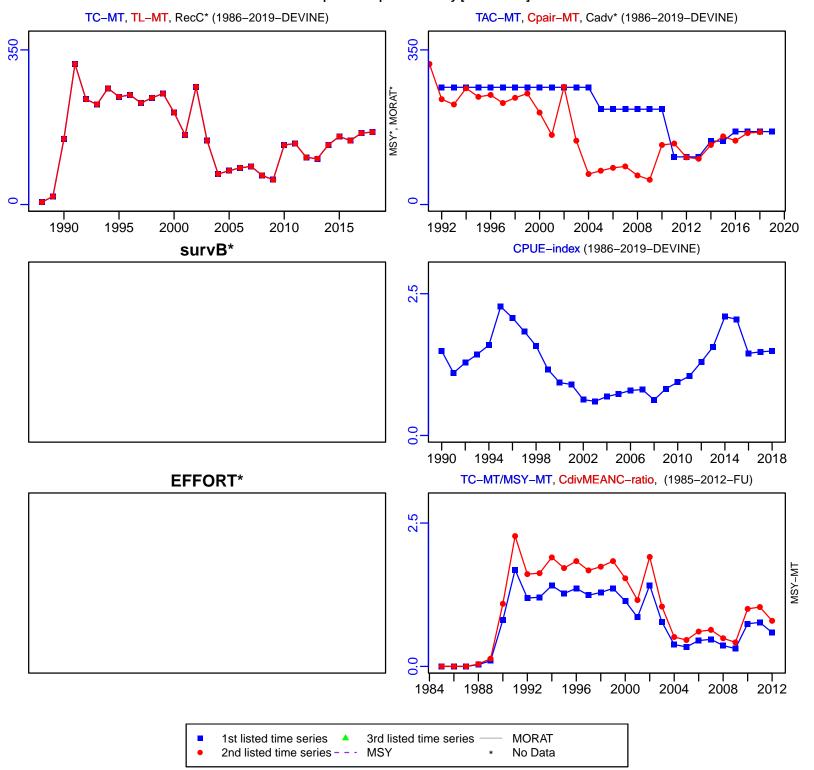
Metadata			
Scientific Name	Metanephrops challengeri		
Current Assess ID	NIWA-SCMPWHB-1986-2019-DEVINE		
Area Wairarapa/Hawke Bay			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2010, 2012, 2019		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2012	942
SSBmsy	SSBmsy-MT	2019	1118
Fmsy	Fmsy-1/yr	2010	0.51
ERmsy	ERmsy-ratio	2012	0.206
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	1118
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	SSB0-MT	2019	2796
MSY	MSY-MT	2012	194
М	M-1/yr	2019	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	2127	-	-
TN	-	-	-	-	-
R	R-E00	2019	20,243,938	-	1
F	F-1/yr	2012	0.1	Both	-
ER	ER-ratio	2019	0.109	-	-
TC	TC-MT	2019	152		
TL	TL-MT	2019	152		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.903		
F/Fmsy	FdivFmsy-dimensionless	2010	0.335		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.455		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.903		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



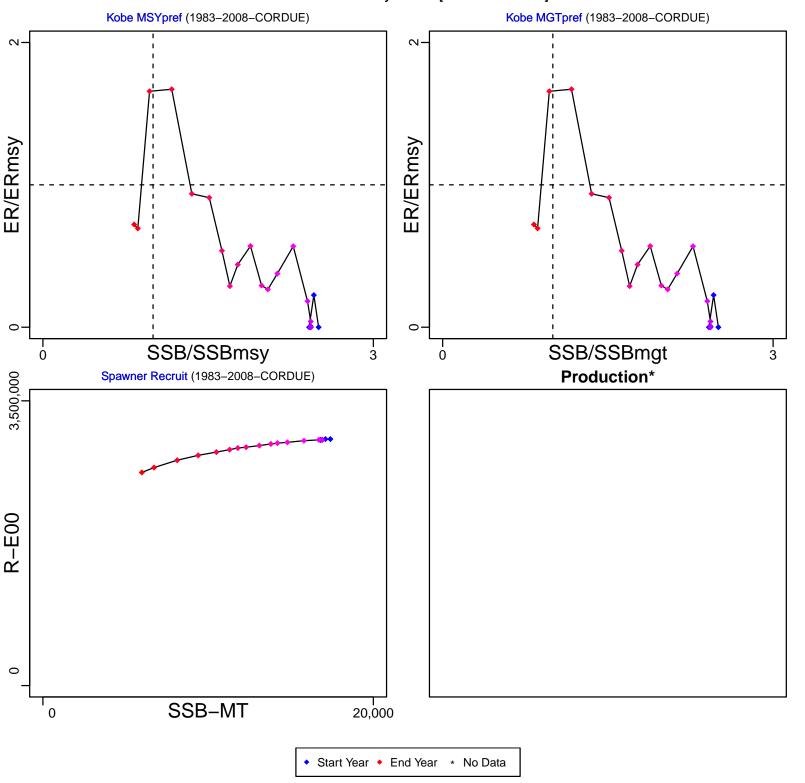


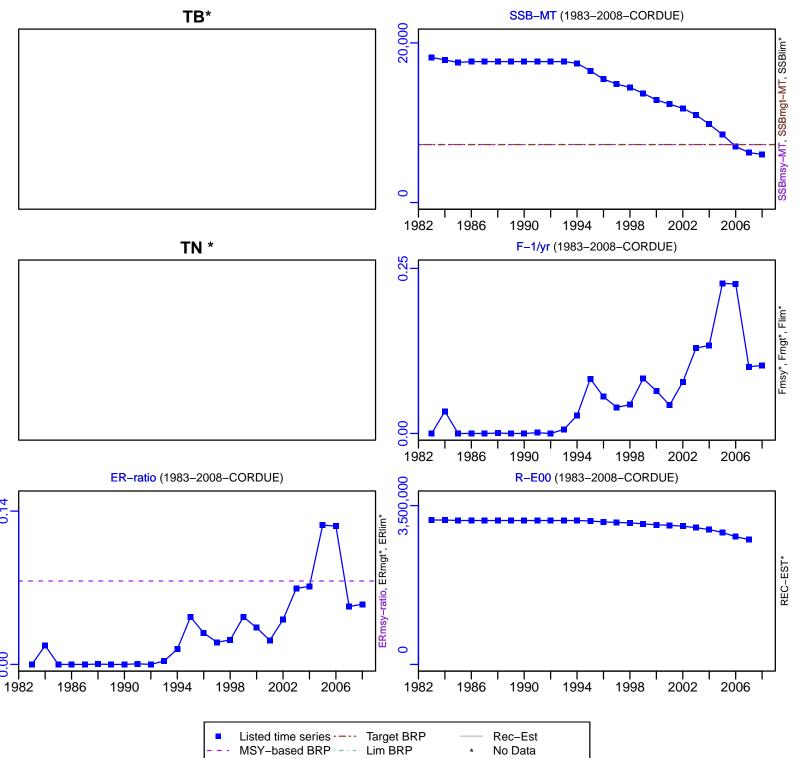


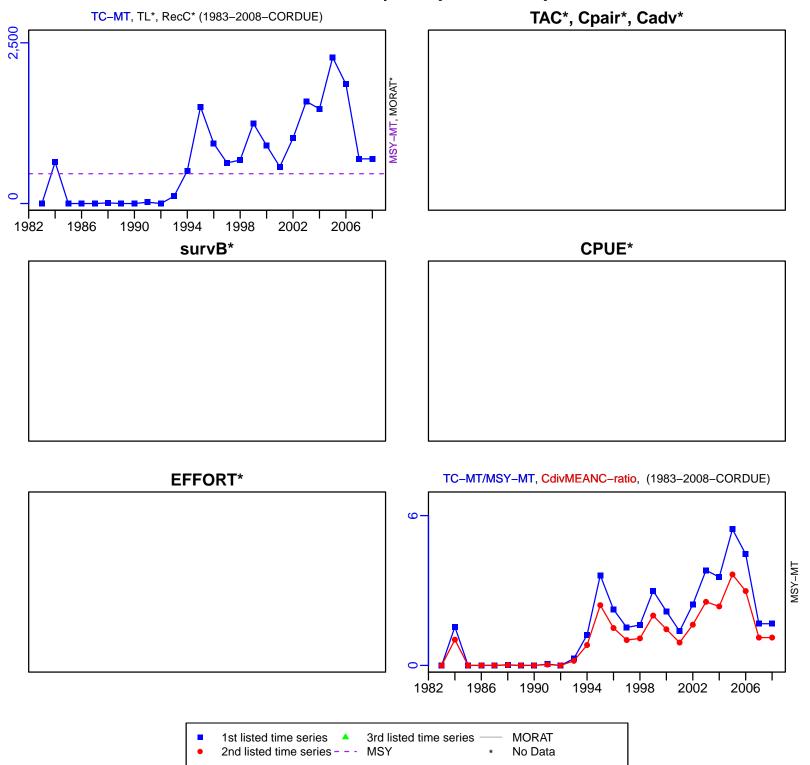
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOBP-1983-2008-CORDUE		
Area Bounty Plateau			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2008		

	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	0.102	-	-
ER	ER-ratio	2008	0.051	-	-
TC	TC-MT	2008	670		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.829		
F/Fmsy	FdivFmsy-dimensionless	2008	1.42		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.721		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2008	0.829		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



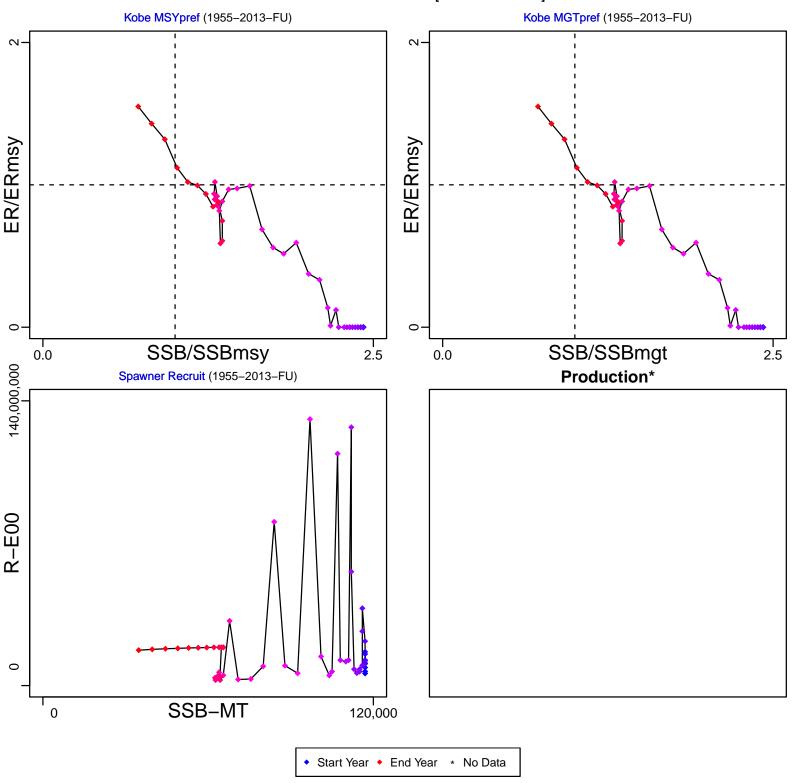


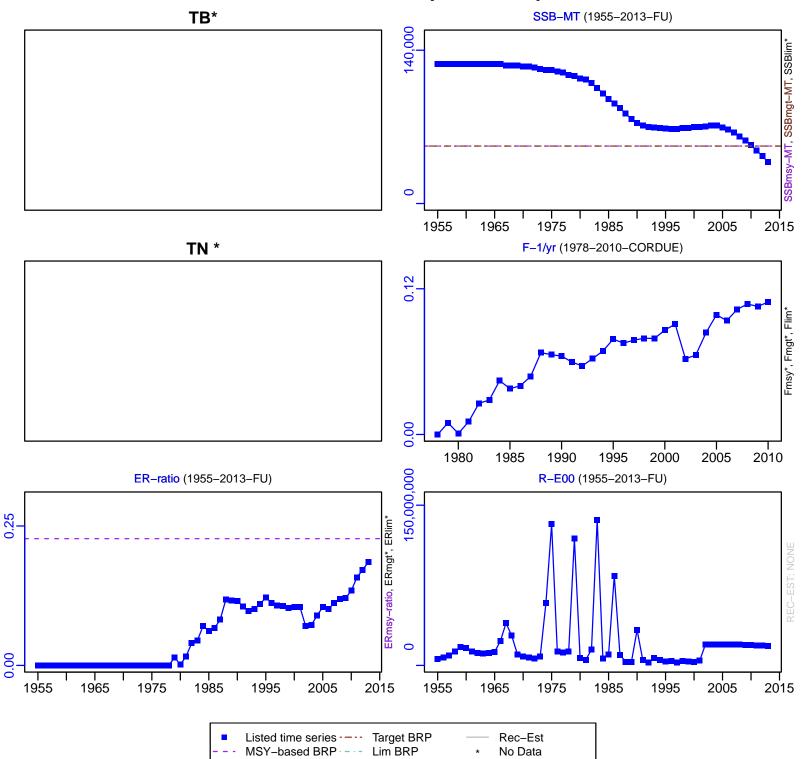


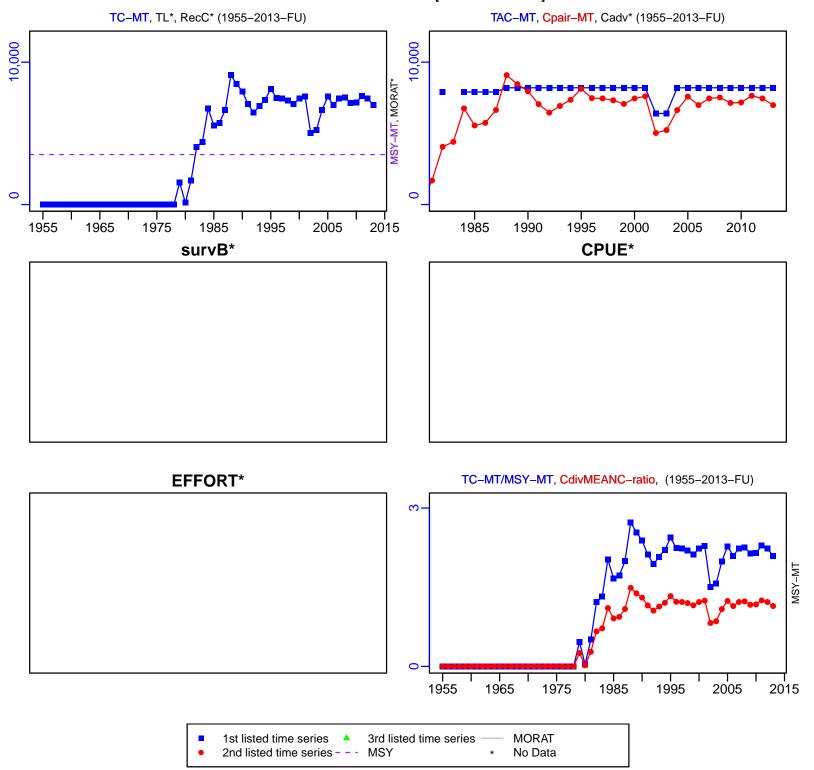
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOCR-1955-2013-FU		
Area Chatham Rise			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2013, 2010		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2013	15,768		
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
ТВ	-	-	-	-	-
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	0.095	-	-
ER	ER-ratio	2013	0.155	Both	1 to 70
TC	TC-MT	2013	5960		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2013	0.721		
F/Fmsy	FdivFmsy-dimensionless	2010	1.03		
ER/ERmsy	ERdivERmsy-dimensionless	2013	1.55		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2013	0.721		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



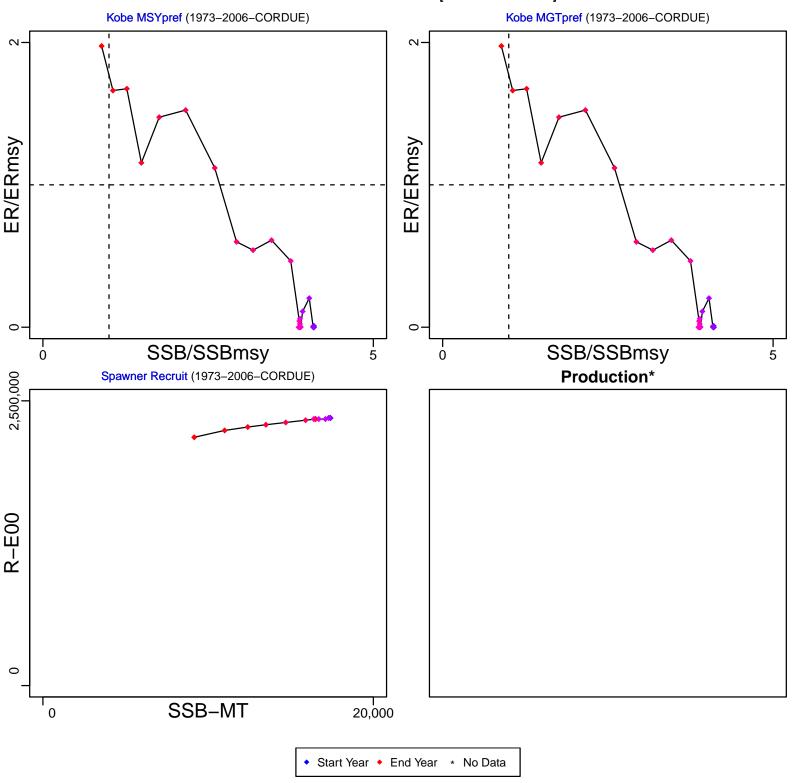


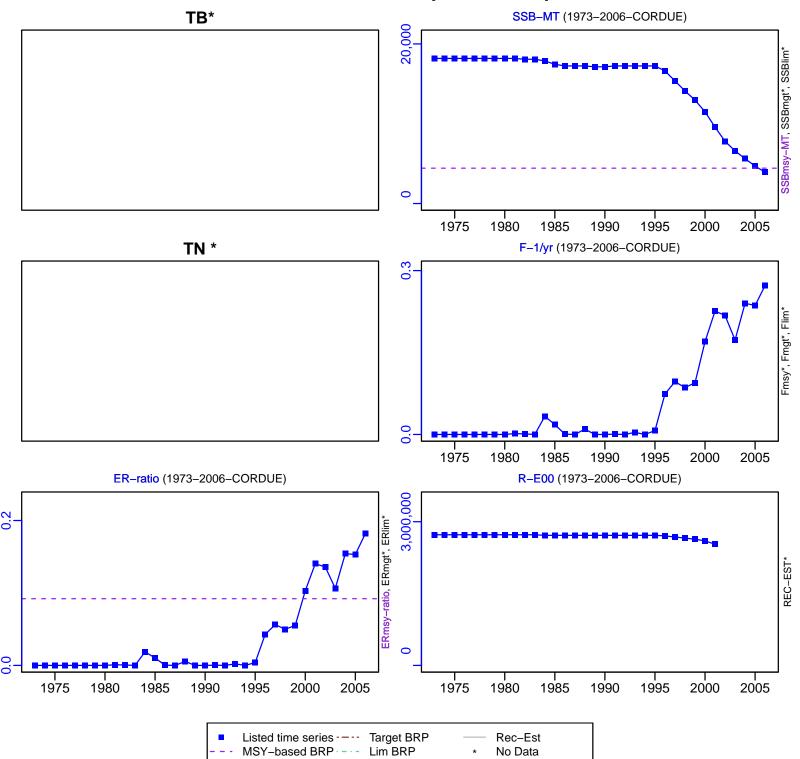


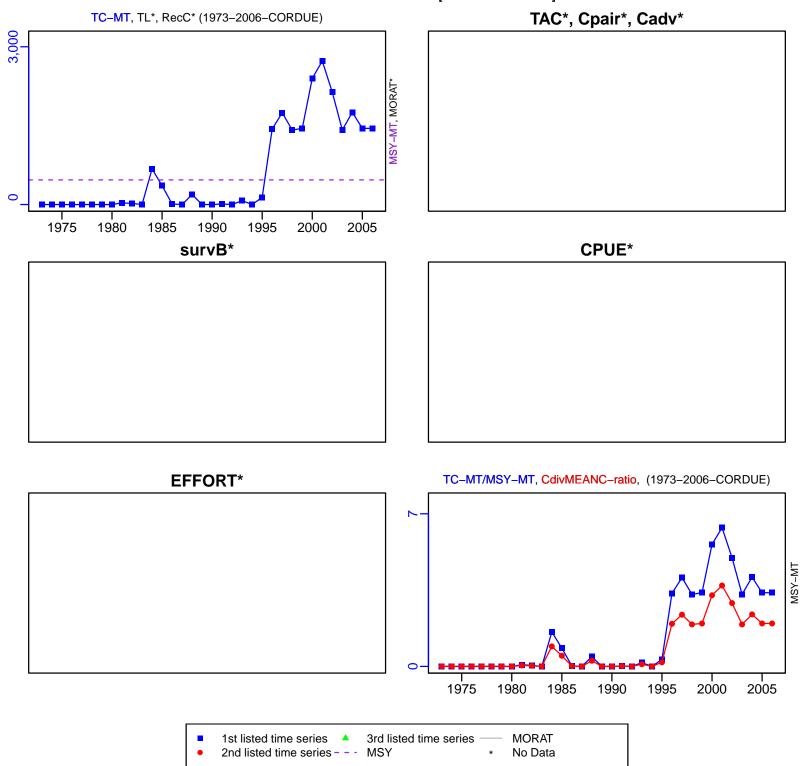
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOEPR-1973-2006-CORDUE		
Area East Pukaki Rise			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2006		

	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	0.268	-	-
ER	ER-ratio	2006	0.158	-	-
TC	TC-MT	2006	1370		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2006	0.888		
F/Fmsy	FdivFmsy-dimensionless	2006	3.35		
ER/ERmsy	ER-ratio/ERmsy-ratio	2006	1.975		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



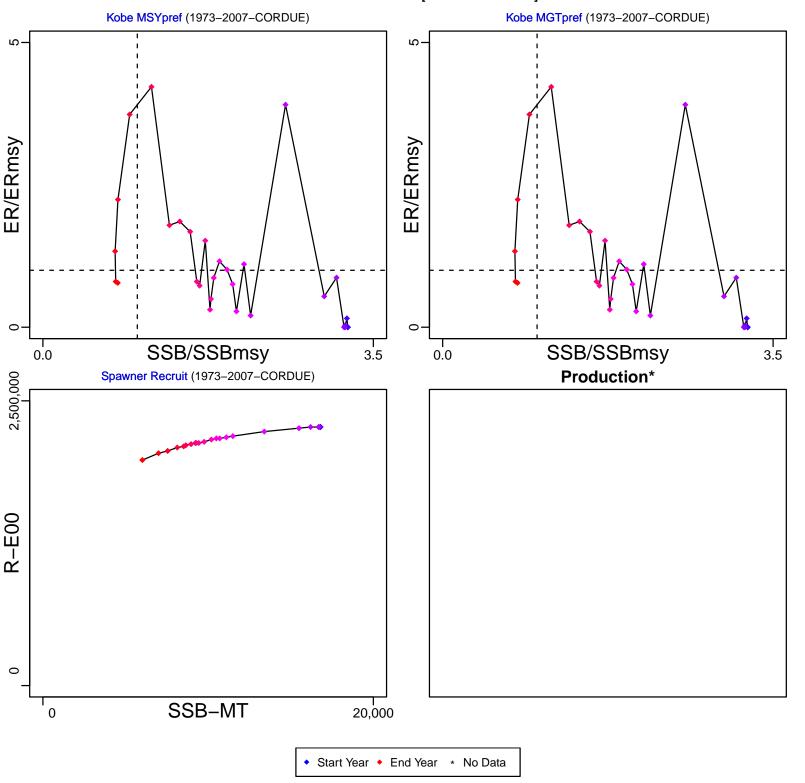


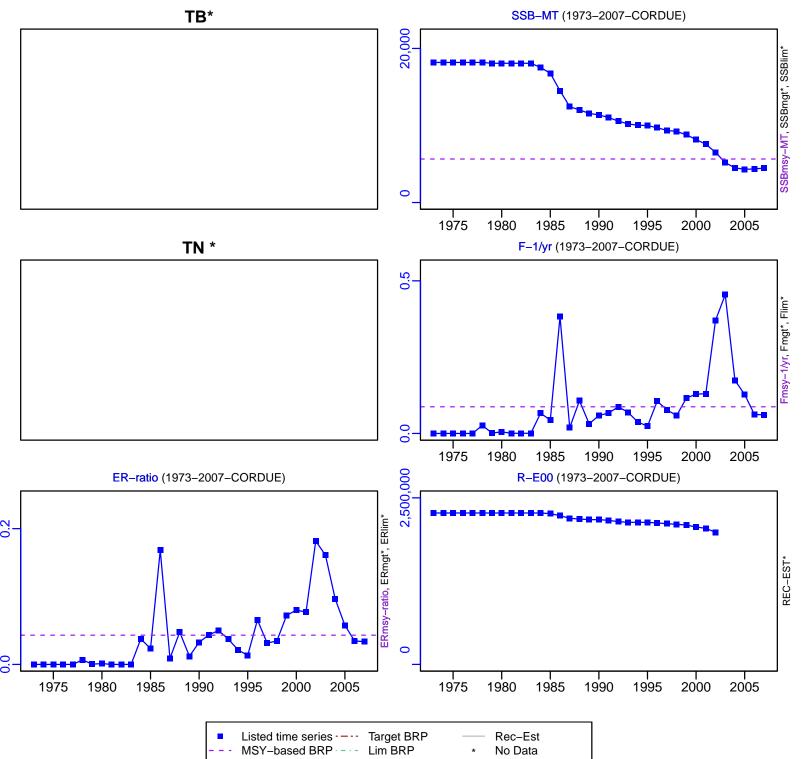


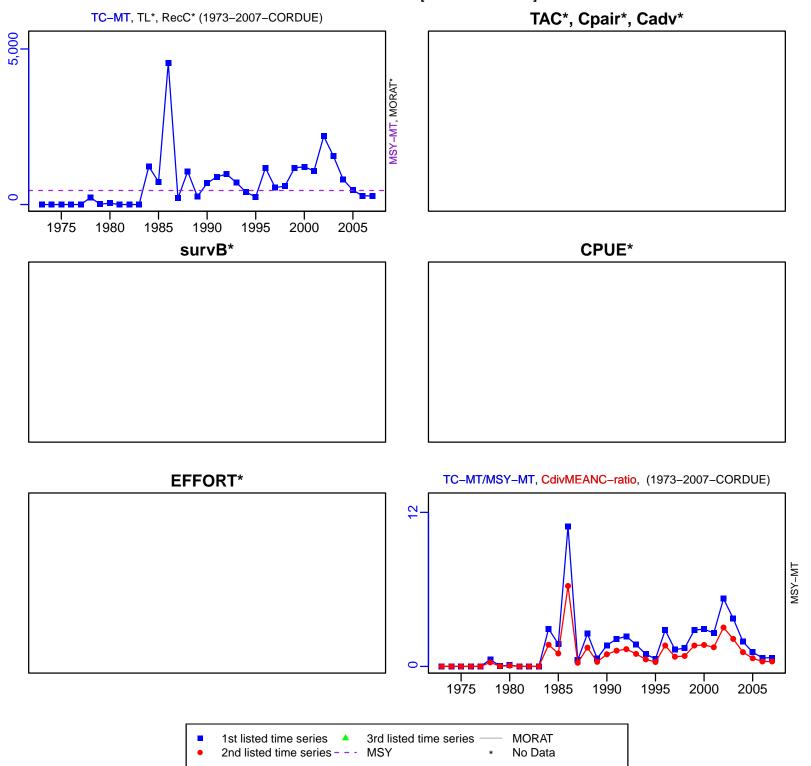
Metadata			
Scientific Name	Pseudocyttus maculatus		
Current Assess ID	NIWA-SMOOTHOREOSLD-1973-2007-CORDUE		
Area Southland			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	11,999	
SSBmsy	SSBmsy-MT	2007	5217	
Fmsy	Fmsy-1/yr	2007	0.08	
ERmsy	ERmsy-ratio	2007	0.035	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2007	16,829	
MSY	MSY-MT	2007	421	
M	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	0.056	-	-
ER	ER-ratio	2007	0.027	-	-
TC	TC-MT	2007	260		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	0.793		
F/Fmsy	FdivFmsy-dimensionless	2007	0.718		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.779		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







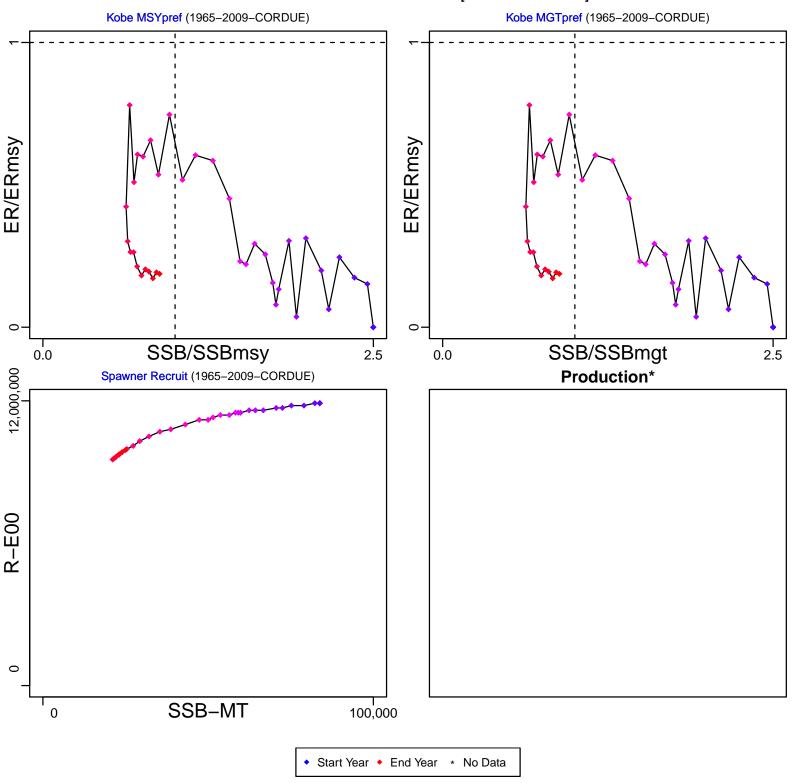
# Smooth oreo West end of Chatham Rise [SMOOTHOREOWECR]

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			

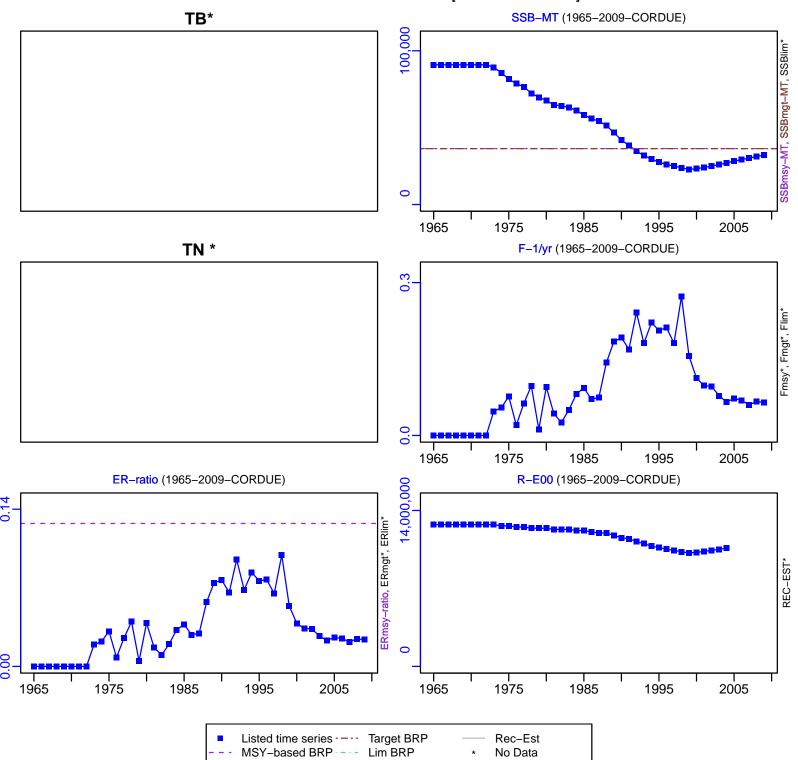
Reference Points							
Туре	ID	ID Asmt Year					
TBmsy	TBmsy-MT	2009	18,158				
SSBmsy	SSBmsy-MT	2009	33,522				
Fmsy	-	-	-				
ERmsy	ERmsy-ratio	2009	0.12				
TBmgt	-	-	-				
SSBmgt	SSBmgt-MT	2009	33,522				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	SSB0-MT	2009	83,805				
MSY	MSY-MT	2009	2179				
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	0.059	-	-		
ER	ER-ratio	2009	0.022	-	-		
TC	TC-MT	2009	1530				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2009	0.883				
F/Fmsy	FdivFmsy-dimensionless	2009	0.494				
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.188				
TB/TBmgt	-	-	-				
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2009	0.883				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

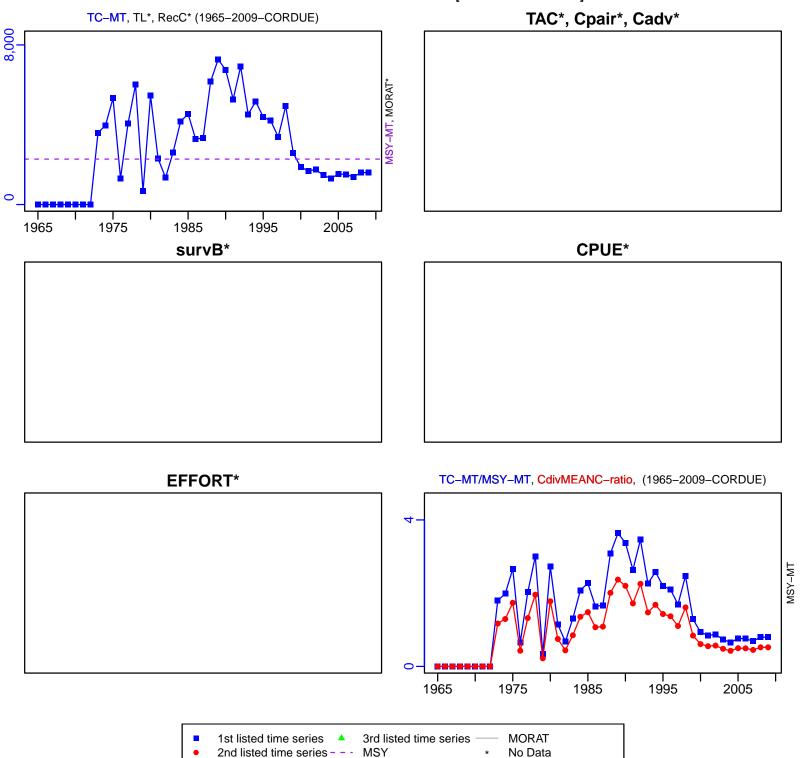
### Smooth oreo West end of Chatham Rise [SMOOTHOREOWECR]



### Smooth oreo West end of Chatham Rise [SMOOTHOREOWECR]



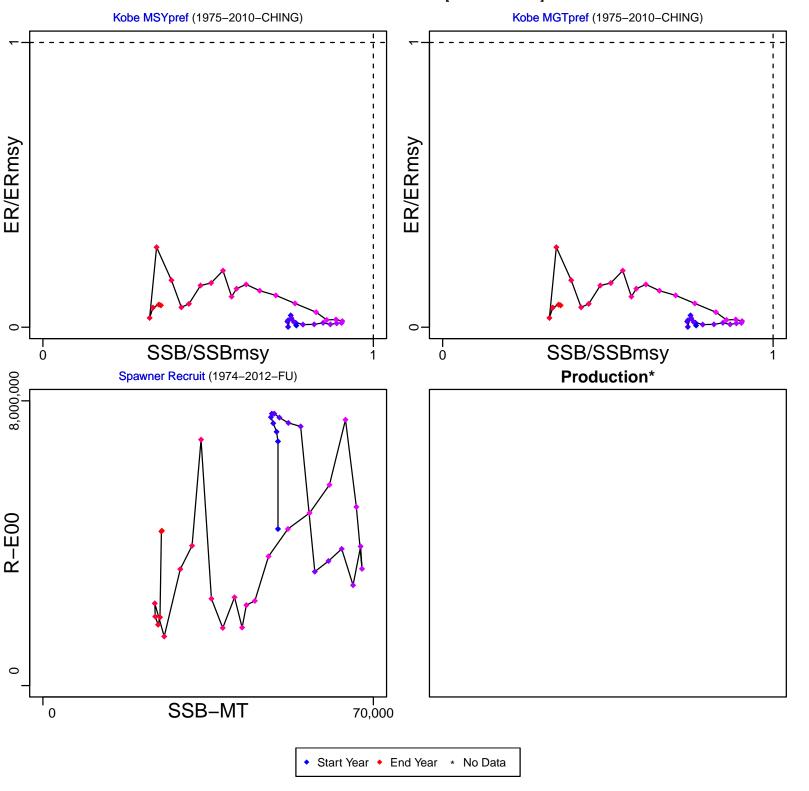
### Smooth oreo West end of Chatham Rise [SMOOTHOREOWECR]

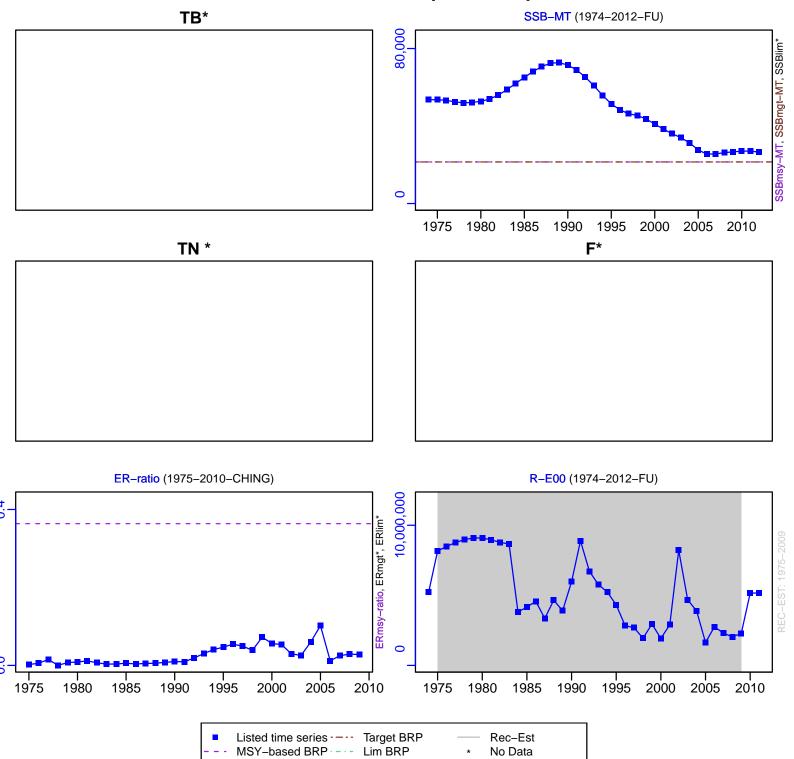


Metadata			
Scientific Name	Merluccius australis		
Current Assess ID	NIWA-SOUTHHAKECR-1974-2012-FU		
Area	Chatham Rise		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2012, 2010		

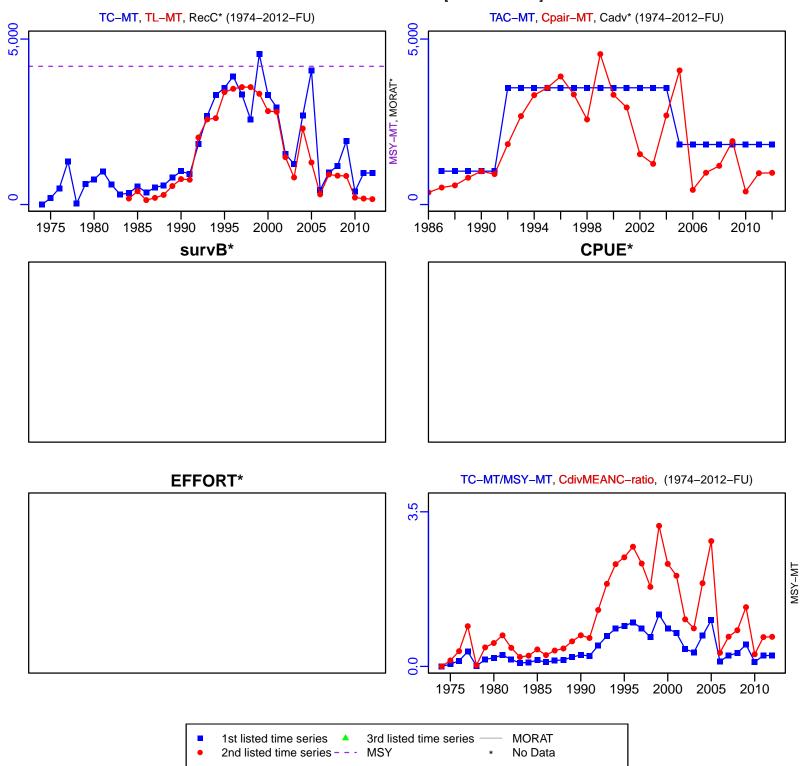
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2012	10,626	
SSBmsy	SSBmsy-MT	2012	19,938	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2012	0.39	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2012	19,938	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2010	88,920	
SSB0	SSB0-MT	2012	49,845	
MSY	MSY-MT	2012	4144	
М	M-1/yr	2012	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-ratio	2010	0.026	-	-
TC	TC-MT	2012	950		
TL	TL-MT	2012	161		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2012	1.234		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.077		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	1.234		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





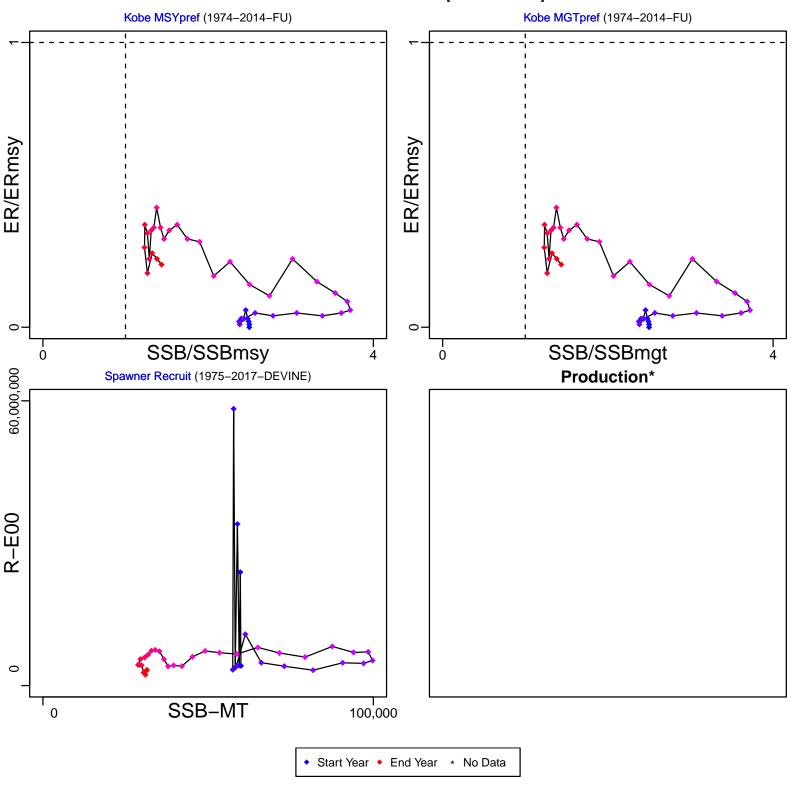
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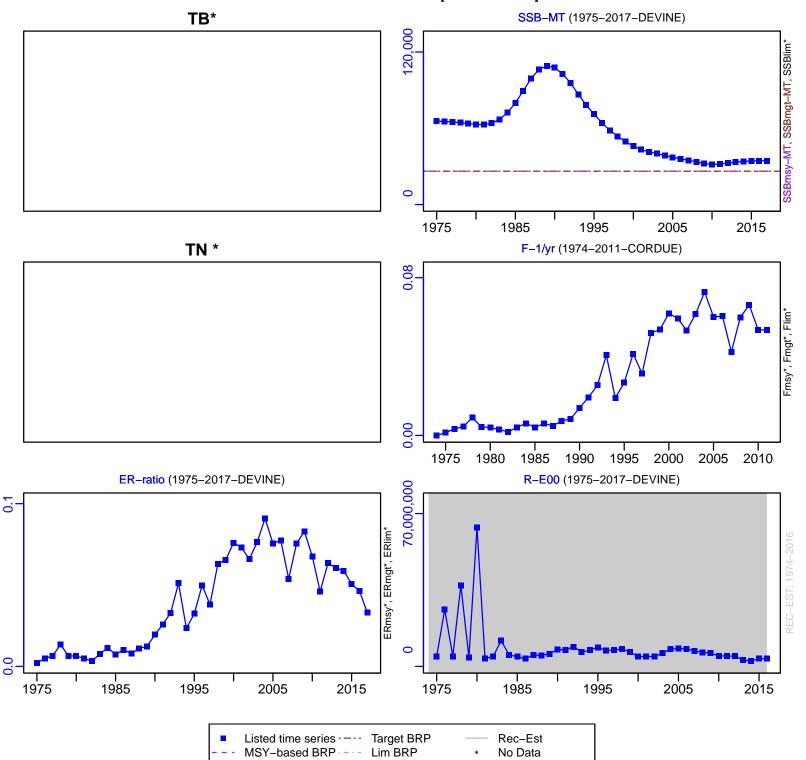


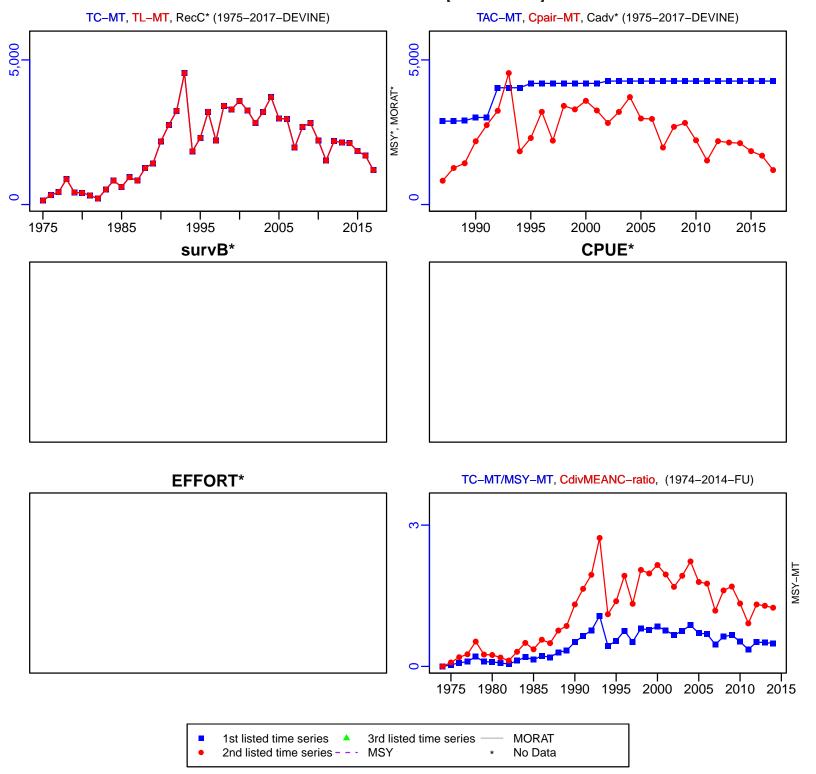
Metadata			
Scientific Name	Merluccius australis		
Current Assess ID	NIWA-SOUTHHAKESA-1975-2017-DEVINE		
Area	Sub-Antarctic		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2011, 2014, 2017		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2014	20,249	
SSBmsy	SSBmsy-MT	2017	23,992	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2014	0.214	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2017	23,992	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	SSB0-MT	2017	59,980	
MSY	MSY-MT	2014	4341	
М	M-1/yr	2017	0.18	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2017	31,442	-	1-30+
TN	-	-	-	-	-
R	R-E00	2017	3,273,922	Both	1
F	F-1/yr	2011	0.051	-	-
ER	ER-ratio	2017	0.032	-	1-30+
TC	TC-MT	2017	1033		
TL	TL-MT	2017	1033		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2017	1.311		
F/Fmsy	FdivFmsy-dimensionless	2011	0.108		
ER/ERmsy	ERdivERmsy-dimensionless	2014	0.22		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	1.311		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



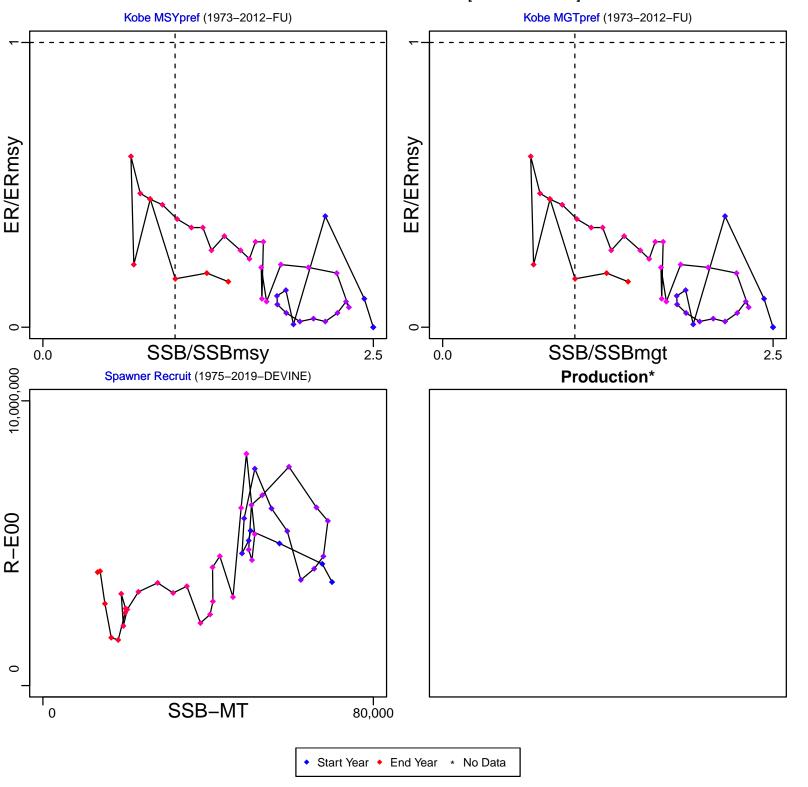


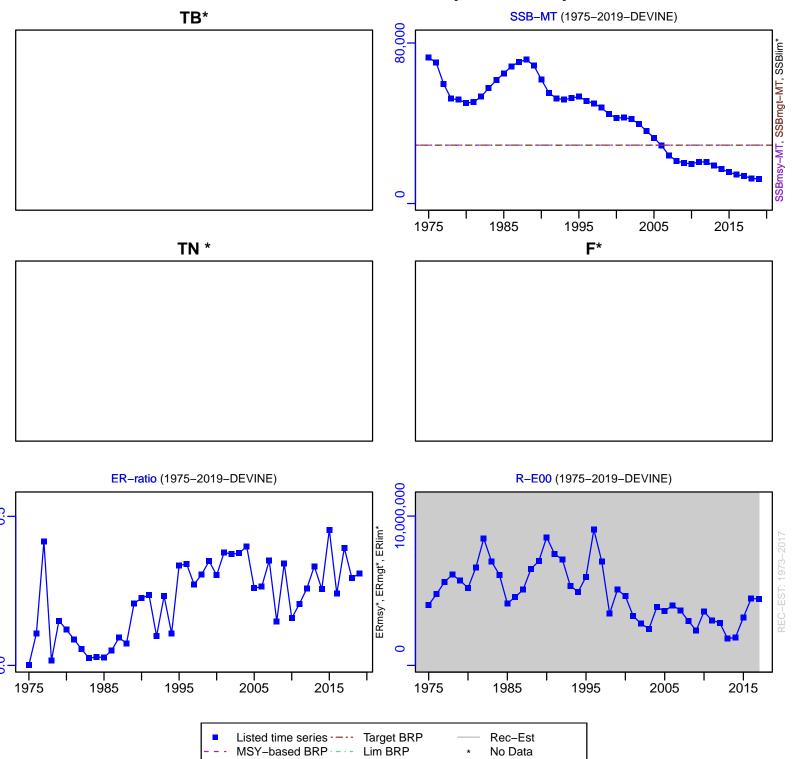


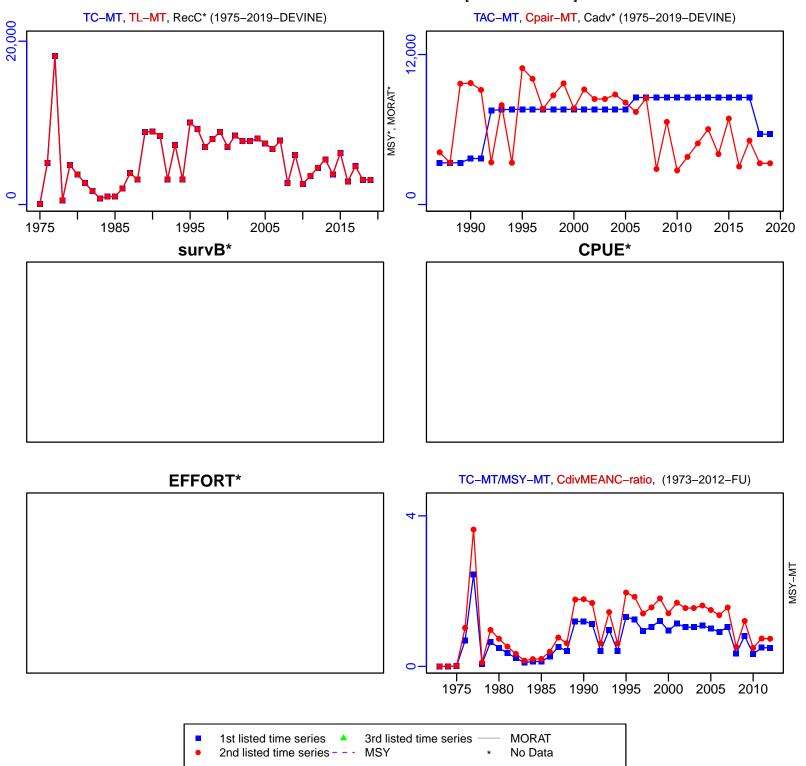
Metadata			
Scientific Name	Merluccius australis		
Current Assess ID	NIWA-SOUTHHAKEWCSI-1975-2019-DEVINE		
Area West Coast South Island			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2012, 2019		

	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-calc-MT	2012	11,376		
SSBmsy	SSBmsy-MT	2019	28,014		
Fmsy	-	-	-		
ERmsy	ERmsy-pr-ratio	2012	0.71		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2019	28,014		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	SSB0-MT	2019	70,035		
MSY	MSY-MT	2012	8077		
М	M-1/yr	2019	0.19		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2019	11,825	Both	30-Jan
TN	-	-	-	-	-
R	R-E00	2019	3,982,411	Both	2
F	-	-	-	-	-
ER	ER-ratio	2019	0.275	Both	30-Jan
TC	TC-MT	2019	2968		
TL	TL-MT	2019	2968		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.422		
F/Fmsy	-	-	-		
ER/ERmsy	ERdivERmsy-dimensionless	2012	0.16		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	0.422		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





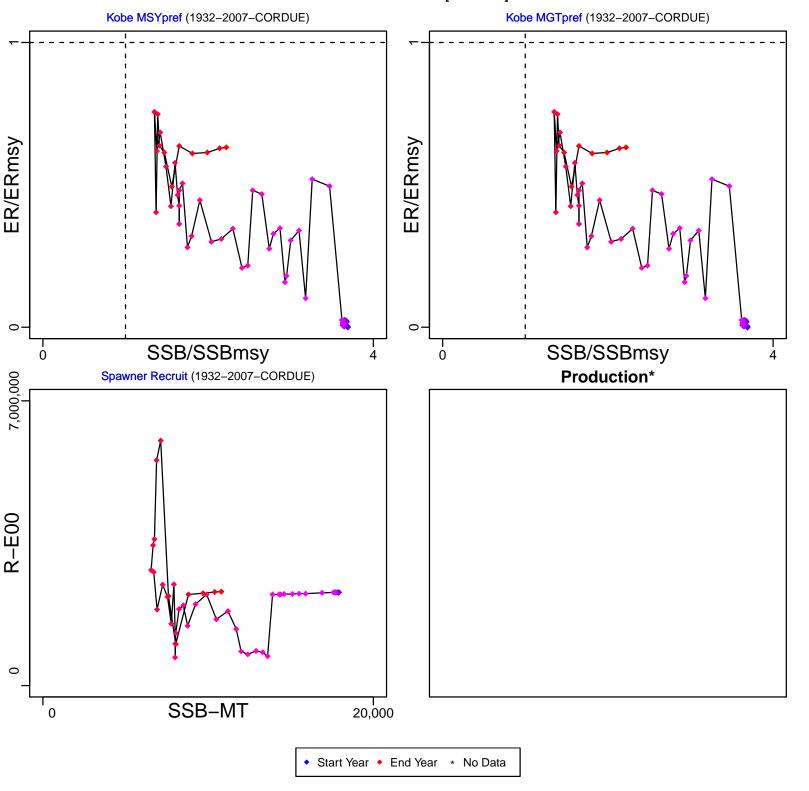


# Tarakihi Sub-Antarctic [TARAKNZ]

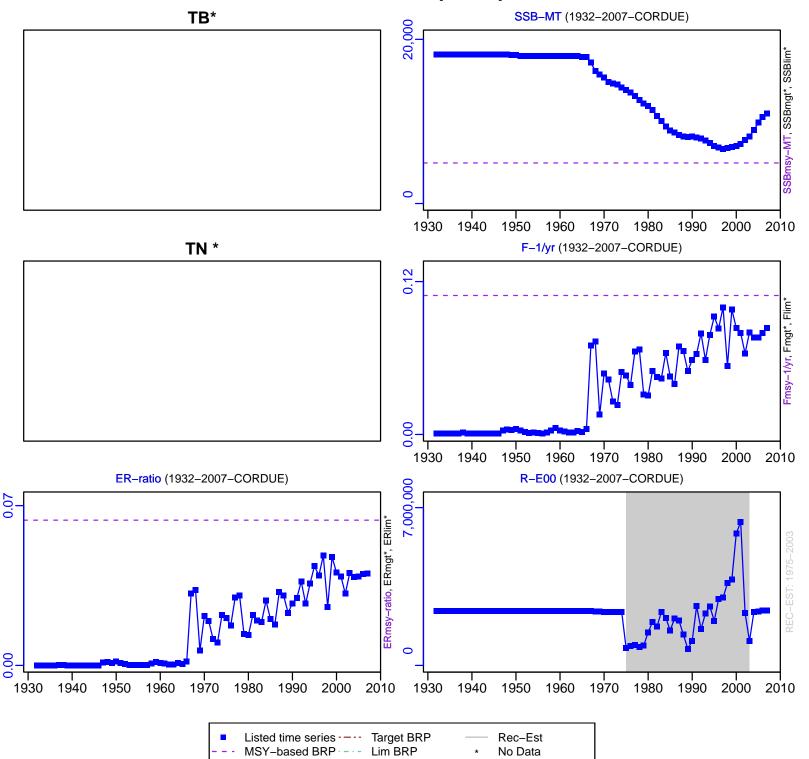
Metadata			
Scientific Name	Nemadactylus macropterus		
Current Assess ID	NIWA-TARAKNZ-1932-2007-CORDUE		
Area	Sub-Antarctic		
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2007		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2007	11,187	
SSBmsy	SSBmsy-MT	2007	4864	
Fmsy	Fmsy-1/yr	2007	0.1	
ERmsy	ERmsy-ratio	2007	0.061	
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	-	-	-	

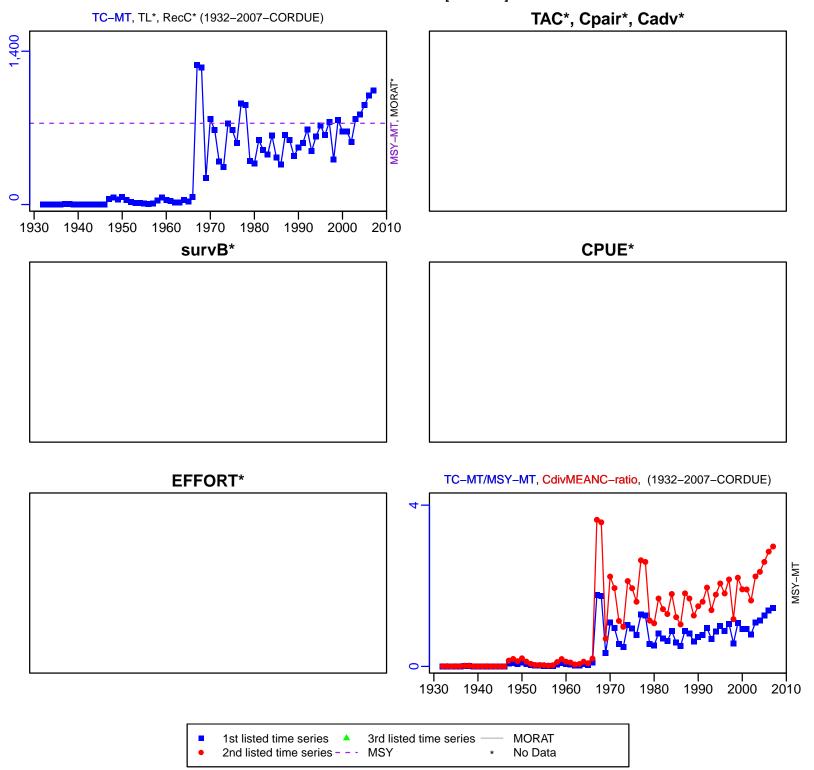
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2007	10,800	Both	-
TN	-	-	-	-	-
R	R-E00	2007	2,310,000	-	0
F	F-1/yr	2007	0.077	-	-
ER	ER-ratio	2007	0.038	-	-
TC	TC-MT	2007	957		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2007	2.22		
F/Fmsy	FdivFmsy-dimensionless	2007	0.766		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.632		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



#### Tarakihi Sub-Antarctic [TARAKNZ]



### Tarakihi Sub-Antarctic [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						
Type	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2005	26,990			
SSBmsy	SSBmsy-MT	2014	8936			
Fmsy	Fmsy-1/yr	2005	0.113			
ERmsy	ERmsy-ratio	2005	0.08			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2014	8936			
Fmgt	Fmgt-1/yr	2014	0.088			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	SSB0-MT	2014	22,339			
MSY	MSY-MT	2014	1818			
М	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	0.094	-	-			
ER	ER-ratio	2005	0.087	-	-			
TC	TC-MT	2014	1530					
TL	TL-MT	2014	1440					
TB/TBmsy	TB-MT/TBmsy-calc-MT	2005	1.045					
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	1.287					
F/Fmsy	F-1/yr/Fmsy-1/yr	2005	0.83					
ER/ERmsy	ER-ratio/ERmsy-ratio	2005	1.082					
TB/TBmgt	-	-	-					
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	1.287					
F/Fmgt	FdivFmgt-dimensionless	2014	0.678					
ER/ERmgt	-	-	-					

