# bivalves-gastropods Stocks v4.66 (Nov-03-2024)

### Not present Present Preferred

	Time Series Types			
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
ARCSURF4RST [Arctic surfclam Quebec and Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
ARCSURFBANQ [Arctic surfclam Banquereau]	TB SSB	ER F	TB SSB	ER F
3. ARCSURFGB [Arctic surfclam Division 3LNO]	TB SSB	ER F	TB SSB	ER F
4. ARCSURFQCW [Arctic surfclam Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
5. DOYSFS [Dredge oyster Foveax Strait]	TB SSB	ER F	TB SSB	ER F
6. ILSCALL3Ps [Iceland scallop St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
7. PAUANPAU5A [Paua NZ Area North PAUA 5A]	TB SSB	ER F	TB SSB	ER F
8. PAUAPAU5B [Paua New Zealand Area PAU 5B (Stewart Island)]	TB SSB	ER F	TB SSB	ER F
9. PAUAPAU5D [Paua New Zealand Area PAU 5D (Otago)]	TB SSB	ER F	TB SSB	ER F
10. PAUAPAU7 [Paua New Zealand Area PAU 7 (Marlborough)]	TB SSB	ER F	TB SSB	ER F
11. PAUASPAU5A [Paua NZ Area South PAUA 5A]	TB SSB	ER F	TB SSB	ER F
12. PGEODWA [Pacific geoduck Washington]	TB SSB	ER F	TB SSB	ER F
13. QUAHATLC [Ocean quahog Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
14. SAABALONESA [South African abalone South Africa]	TB SSB	ER F	TB SSB	ER F
15. SCALL3Ps [Sea scallop St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
16. SCALL4T [Sea scallop Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
17. SCALL5ZMAB [Sea scallop Georges Bank and Mid-Atlantic Bight]	TB SSB	ER F	TB SSB	ER F
18. SCALLGB [Sea scallop Georges Bank]	TB SSB	ER F	TB SSB	ER F
19. SCALLNBB [Sea scallop North Brown Bank]	TB SSB	ER F	TB SSB	ER F
20. SCALLSFA16-20 [Sea scallop Scallop Fishing Areas 16-20]	TB SSB	ER F	TB SSB	ER F
21. SCALLSPA1-6 [Sea scallop Bay of Fundy (SPA 1-6)]	TB SSB	ER F	TB SSB	ER F
22. SCALLWSFA29 [Sea scallop West Scallop Fishing Area 29]	TB SSB	ER F	TB SSB	ER F
23. SSCLAMQCW [Softshell clam Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
24. SURFIDLM [Atlantic surfclam lles-de-la-Madeleine]	TB SSB	ER F	TB SSB	ER F
25. SURFMATLC [Atlantic surfclam Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
26. WVSCALLALASKA [Weathervane scallop Alaska]	TB SSB	ER F	TB SSB	ER F
27. WWHELKQCW [Waved whelk Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F

Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-QUE-ARCSURF4RST-1993-2014-OSGOOD	
Area	Quebec and Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2014	

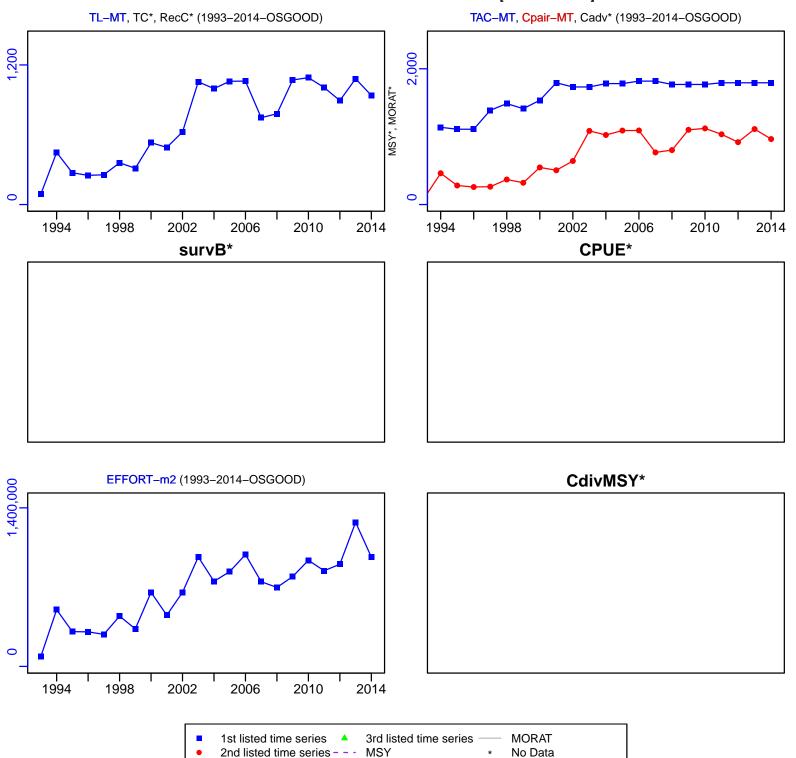
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	785		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
-	

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
EK	Recruits
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	m BRP * No Data



Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-MAR-ARCSURFBANQ-1986-2010-CHING	
Area	Banquereau	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2010	

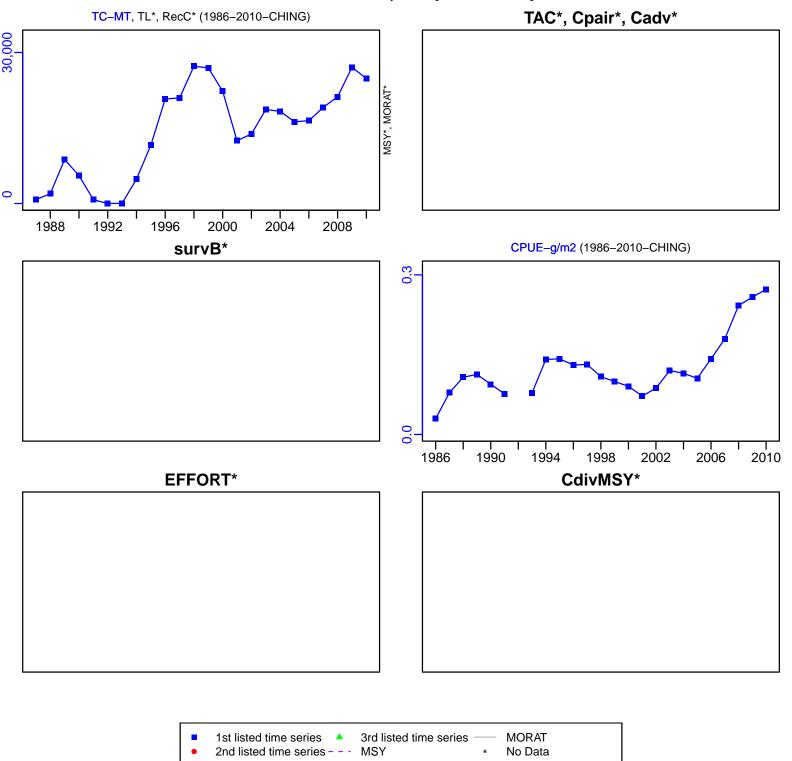
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	22,500		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
	I

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data



Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-ARCSURFGB-1989-2010-WATSON	
Area	Division 3LNO	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2010	

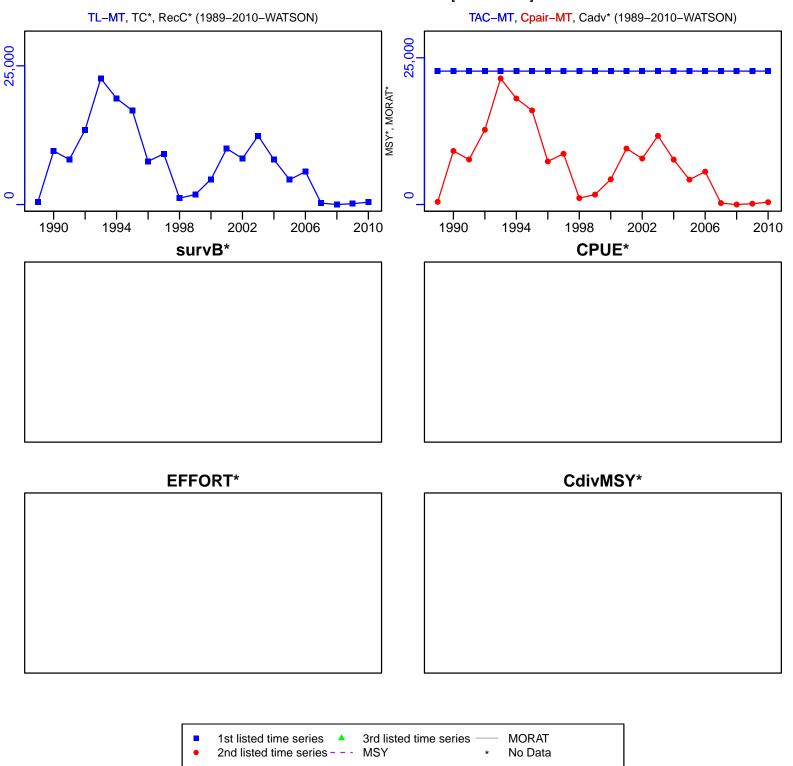
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2010	0.08		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID Asmt Year Curr Value Sex					
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2010	346			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data



Metadata			
Scientific Name	Mactromeris polynyma		
Current Assess ID	DFO-QUE-ARCSURFQCW-1993-2017-ASHBROOK		
Area Quebec Coastal Waters			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in RAM	2011, 2017		

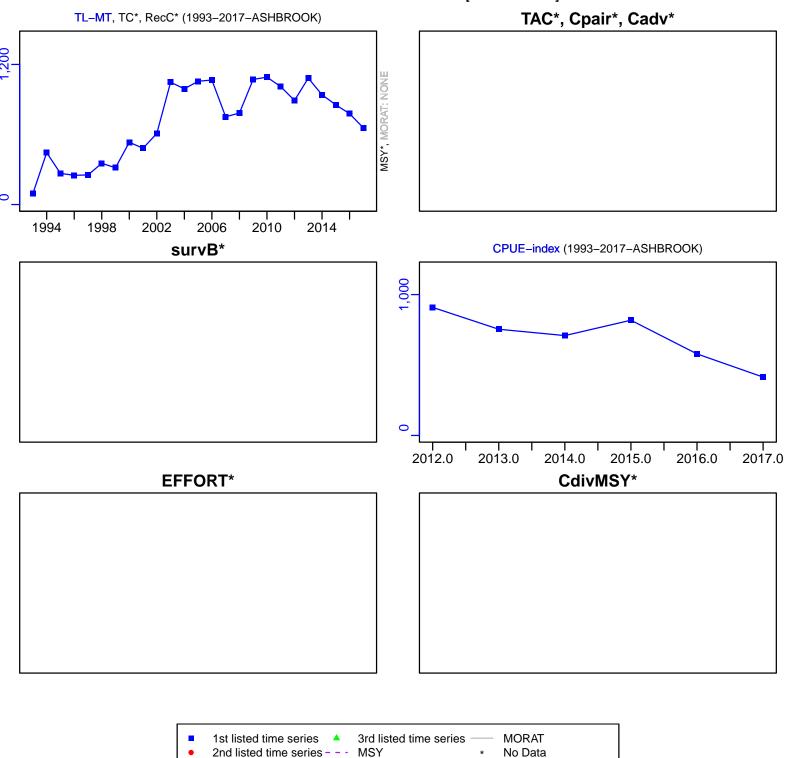
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID Asmt Year Curr Value Sex					
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2017	552			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Opawner Necruit	
Opawner Recruit	Troduction
Opawner Recruit	
Opawner rectuit	
Opawner recordit	

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

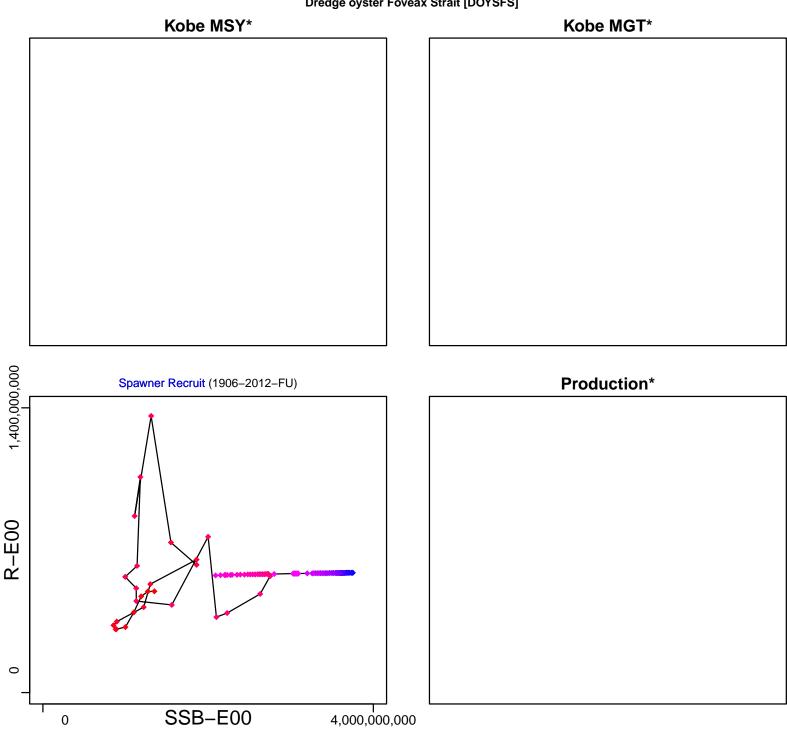


# **Dredge oyster Foveax Strait [DOYSFS]**

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	

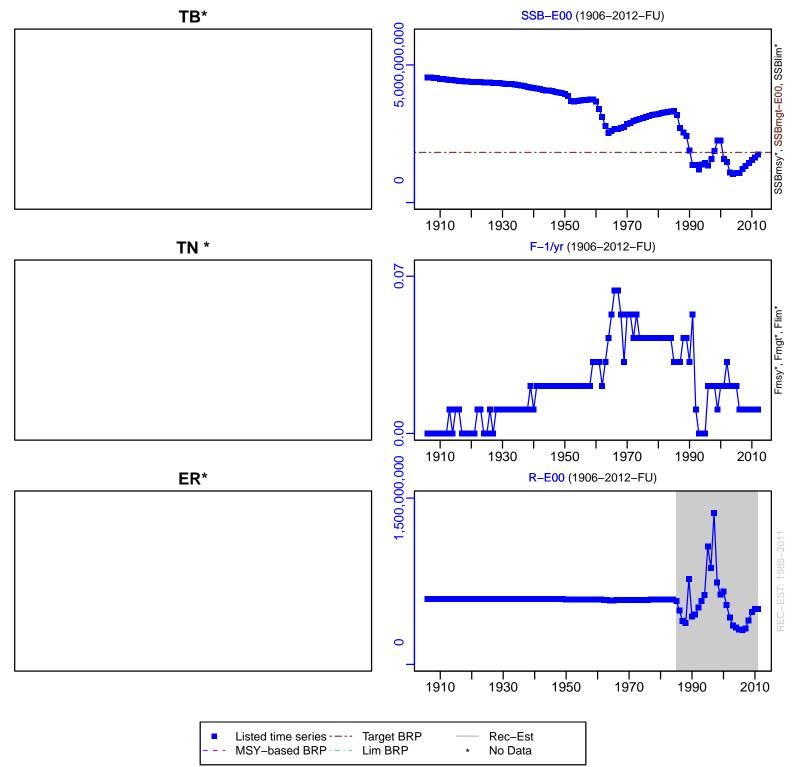
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-E00	2012	1,501,772,000	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2012	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

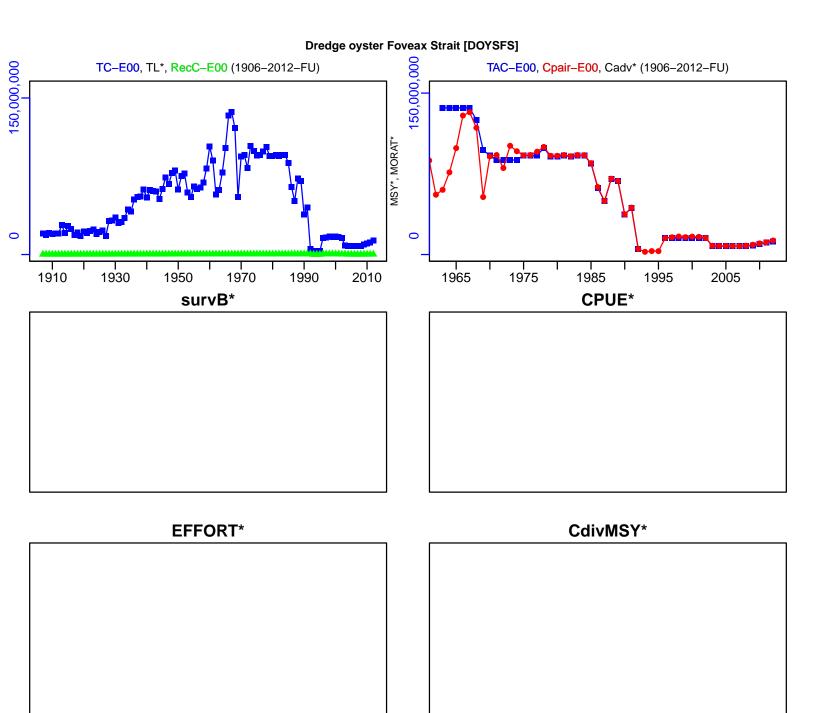
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2012	$1.44 \times 10^{9}$	-	-
TN	-	-	-	-	-
R	R-E00	2012	$4.98 \times 10^{8}$	Both	-
F	F-1/yr	2012	0.01	Both	-
ER	-	-	-	-	-
TC	TC-E00	2012	12,600,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy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



Start Year ◆ End Year \* No Data

## Dredge oyster Foveax Strait [DOYSFS]





# Iceland scallop St. Pierre Bank [ILSCALL3Ps]

Metadata		
Scientific Name	Chlamys islandica	
Current Assess ID	DFO-NFLD-ILSCALL3Ps-1989-2017-ASHBROOK	
Area	St. Pierre Bank	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Newfoundland Region	
Asmts in RAM	2017	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2017	0.07	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

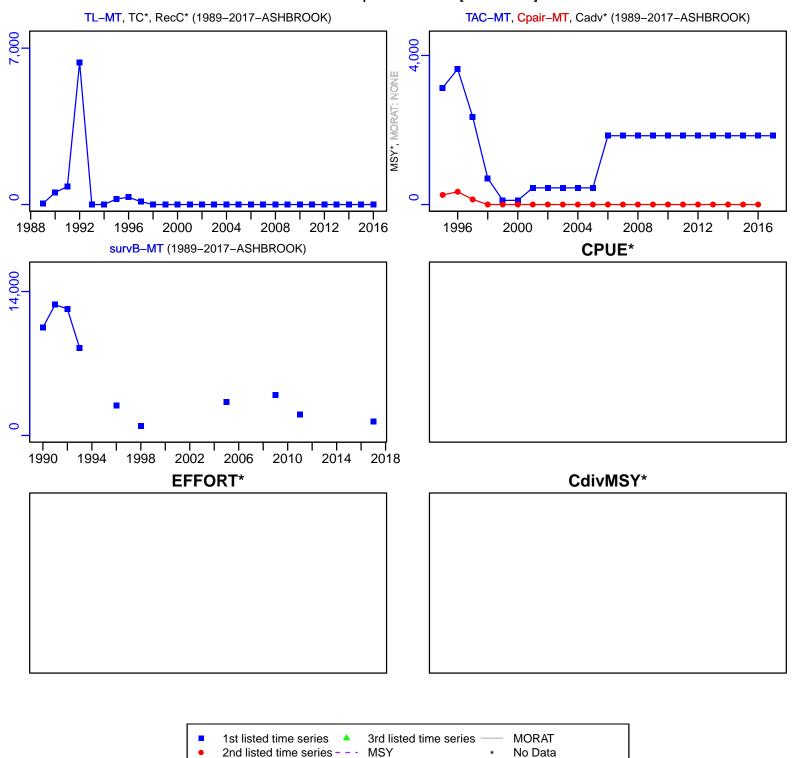
### Iceland scallop St. Pierre Bank [ILSCALL3Ps]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Iceland scallop St. Pierre Bank [ILSCALL3Ps]

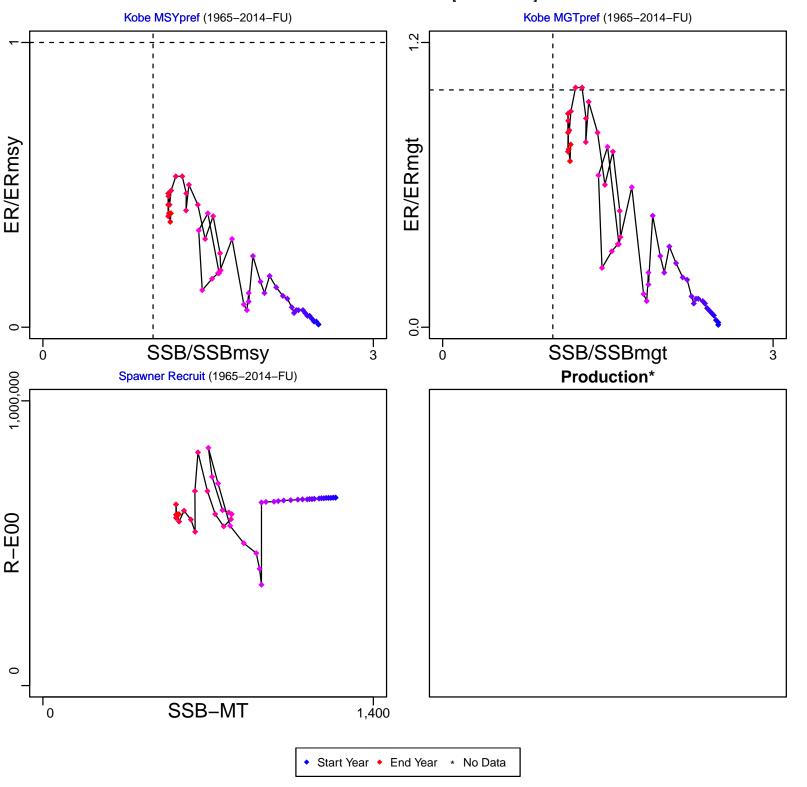
TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

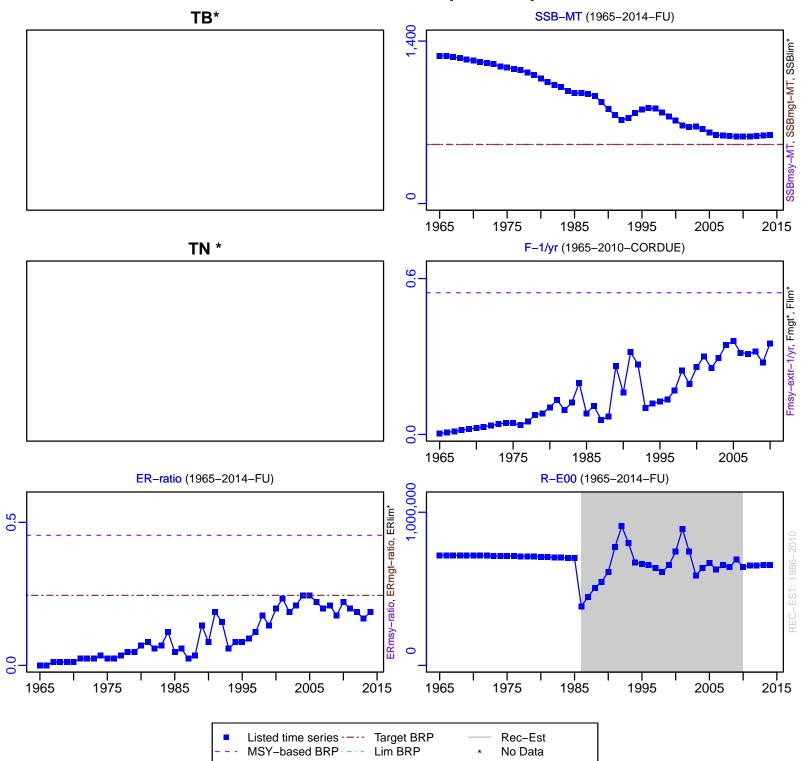


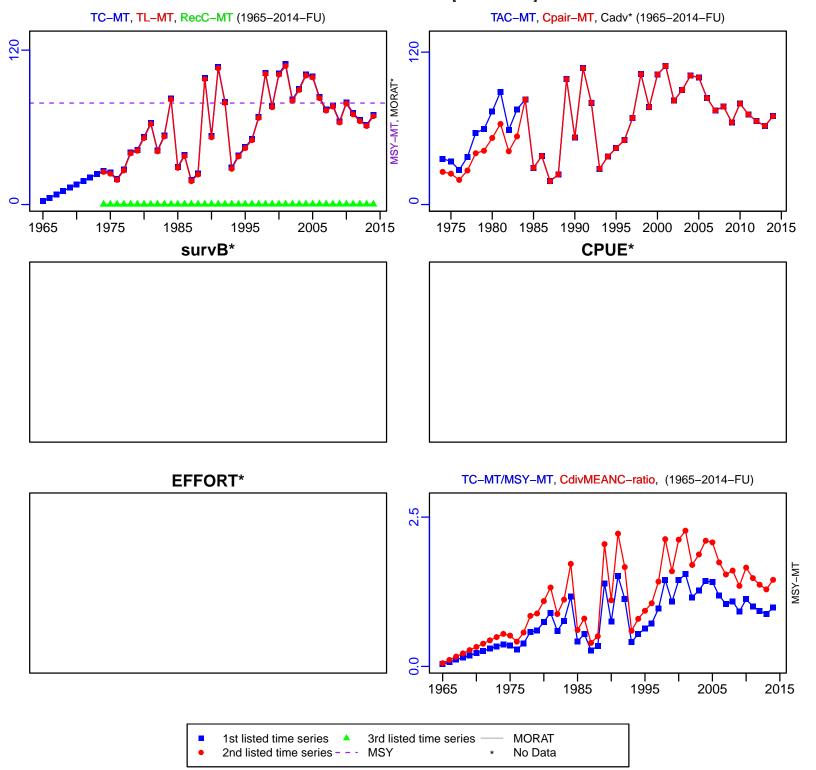
Metadata		
Scientific Name	Haliotis iris	
Current Assess ID	NIWA-PAUANPAU5A-1965-2014-FU	
Area	NZ Area North PAUA 5A	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	National Institute of Water and Atmospheric Research	
Asmts in RAM	2010, 2014	

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	-	-	-		



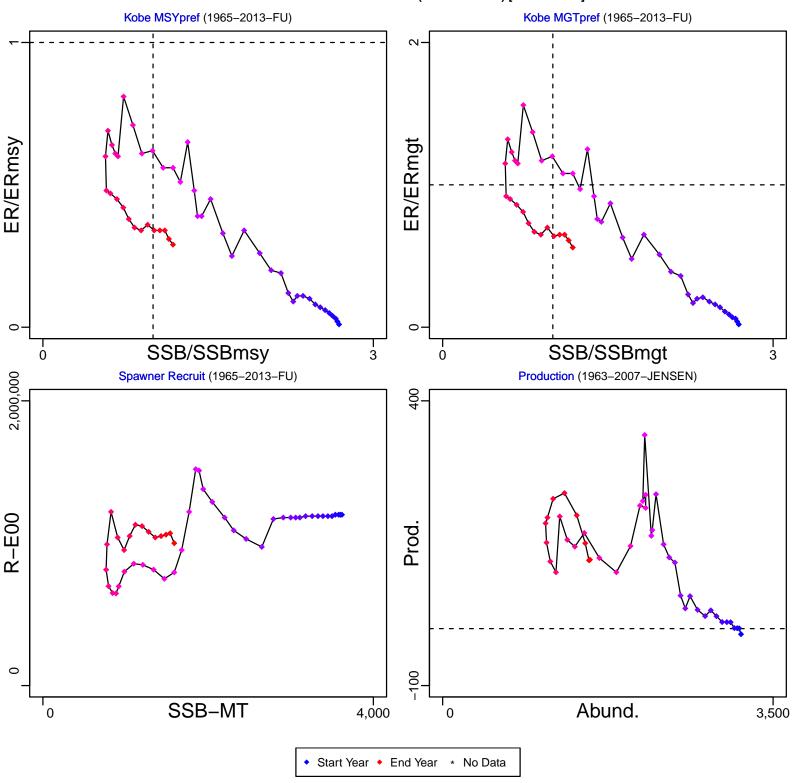


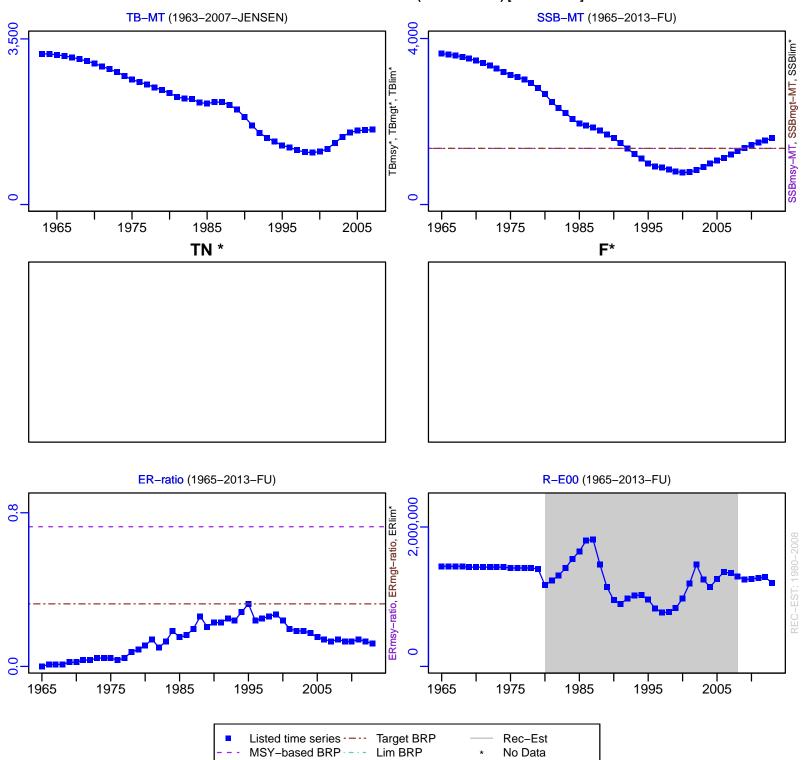


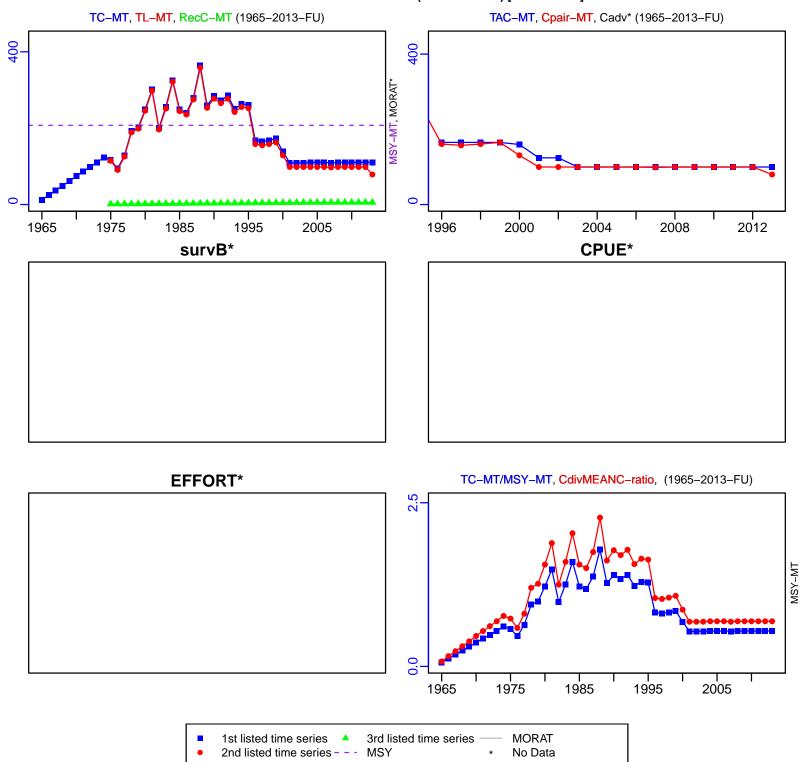
Metadata		
Scientific Name	Haliotis iris	
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5B-1965-2013-FU	
Area	New Zealand Area PAU 5B (Stewart Island)	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	Shellfish Working Group	
Asmts in RAM	2007, 2013	

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	-	-	-		







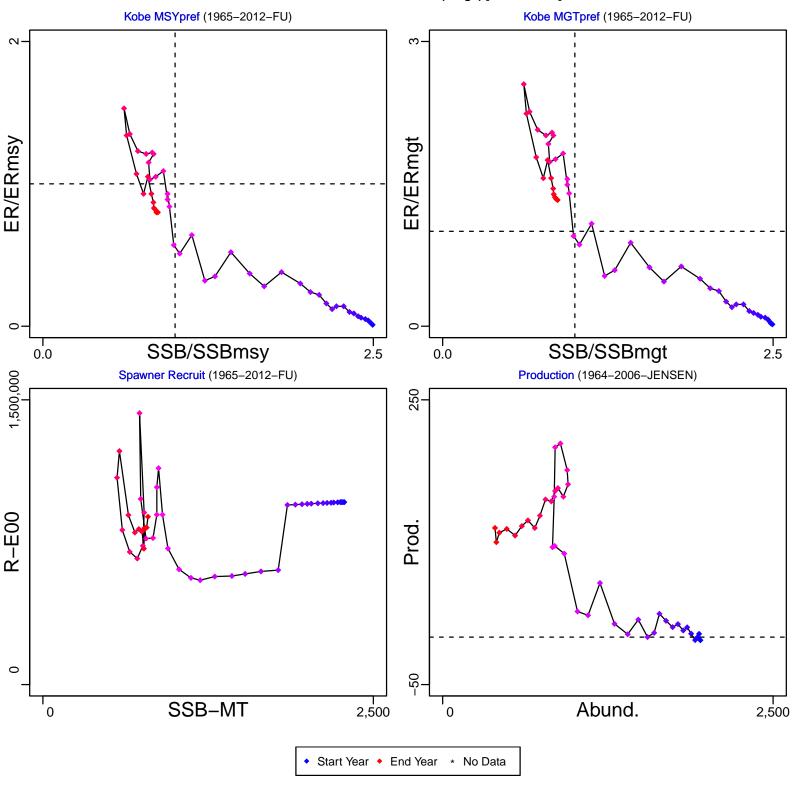
# Paua New Zealand Area PAU 5D (Otago) [PAUAPAU5D]

Metadata		
Scientific Name	Haliotis iris	
Current Assess ID	NZMFishSHELLFISHWG-PAUAPAU5D-1965-2022-NEUBAUER	
Area	New Zealand Area PAU 5D (Otago)	
Management Authority	Ministry of Fisheries, New Zealand national management	
Assessor	Shellfish Working Group	
Asmts in RAM	2006, 2012, 2022	

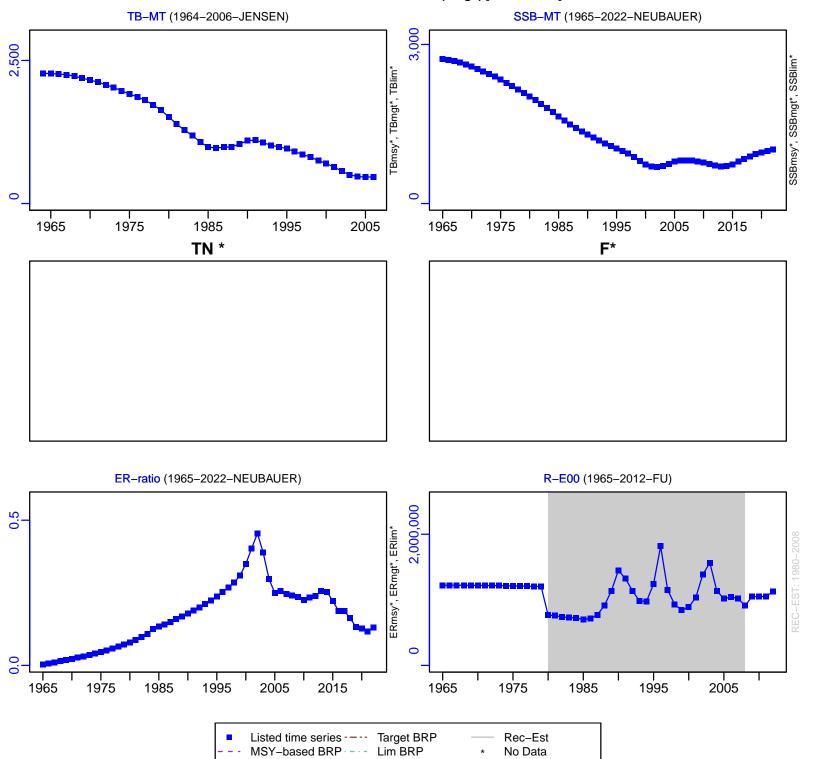
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	TBmsy-calc-MT	2012	465			
SSBmsy	SSBmsy-MT	2012	914			
Fmsy	-	-	-			
ERmsy	ERmsy-ratio	2012	0.26			
TBmgt	-	-	-			
SSBmgt	SSBmgt-MT	2012	914			
Fmgt	-	-	-			
ERmgt	ERmgt-ratio	2012	0.16			
TB0	-	-	-			
SSB0	SSB0-MT	2012	2285			
MSY	MSY-MT	2012	121			
М	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	2022	972	Both	-		
TN	-	-	-	-	-		
R	R-E00	2012	884,000	Both	-		
F	-	-	-	-	-		
ER	ER-ratio	2022	0.113	Both	-		
TC	TC-MT	2022	88				
TL	TL-MT	2022	68				
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	-	-	-				

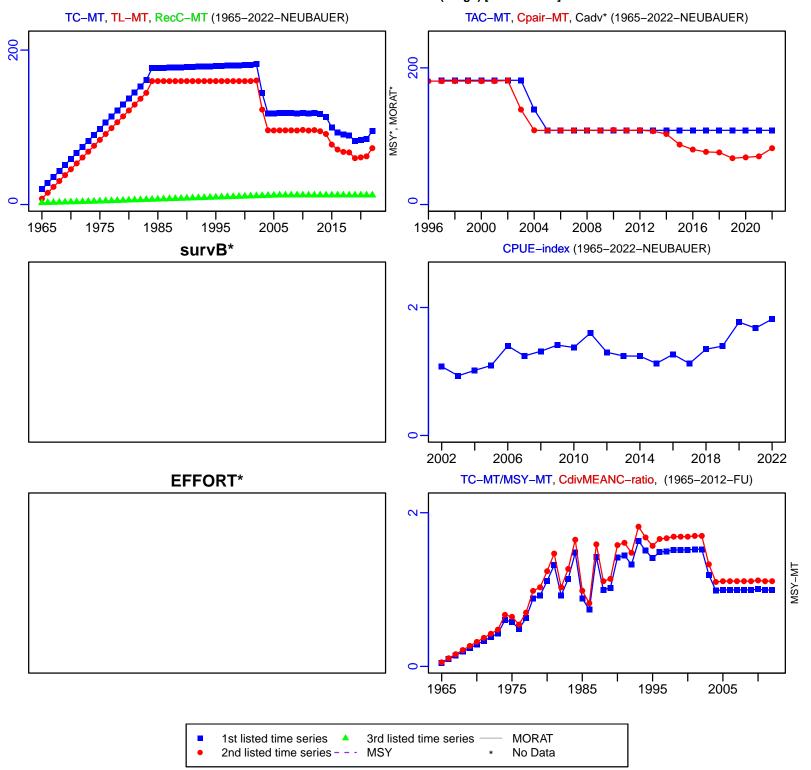
#### Paua New Zealand Area PAU 5D (Otago) [PAUAPAU5D]



### Paua New Zealand Area PAU 5D (Otago) [PAUAPAU5D]



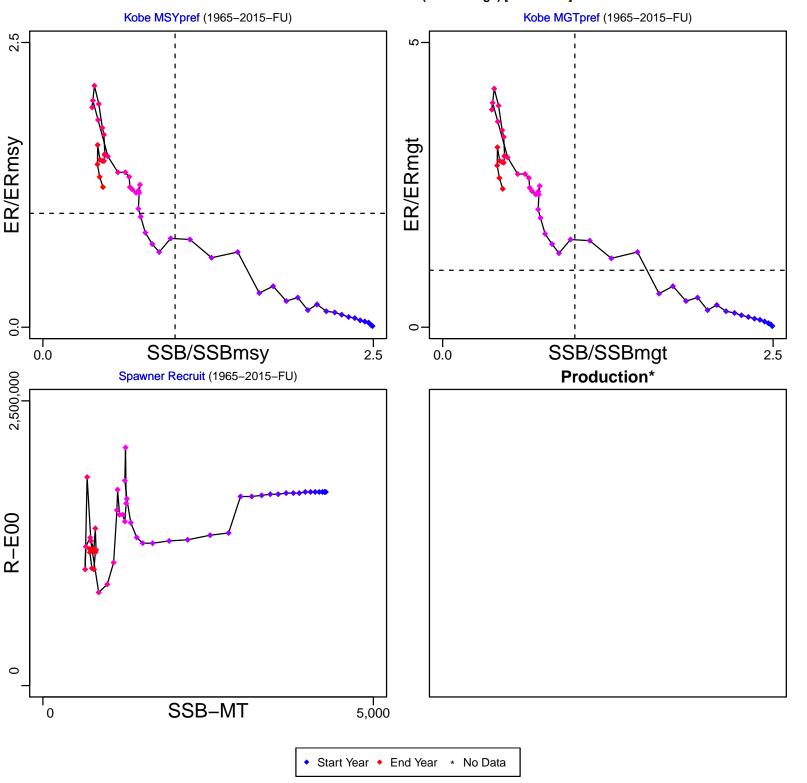
### Paua New Zealand Area PAU 5D (Otago) [PAUAPAU5D]

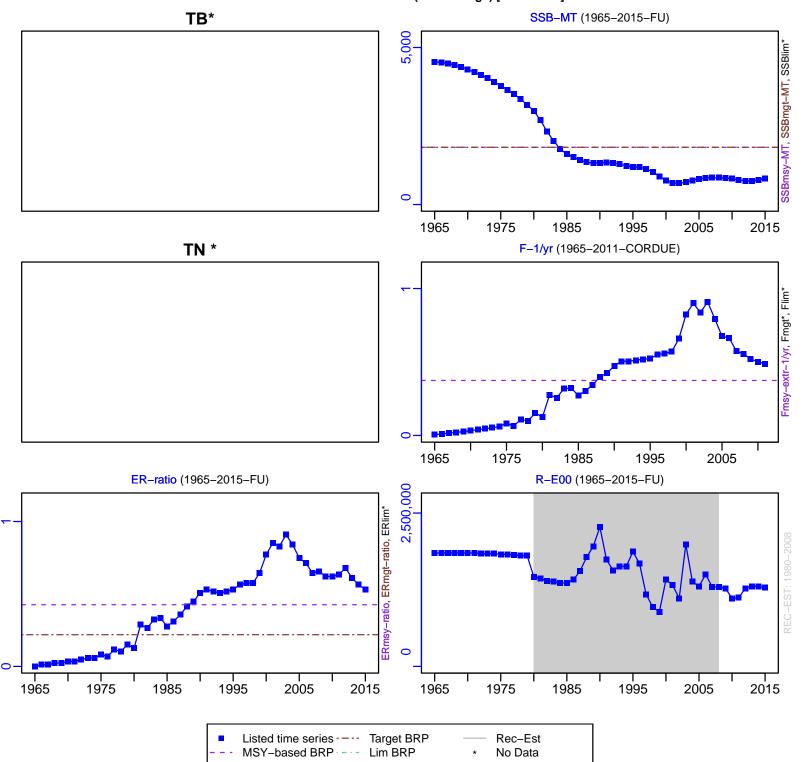


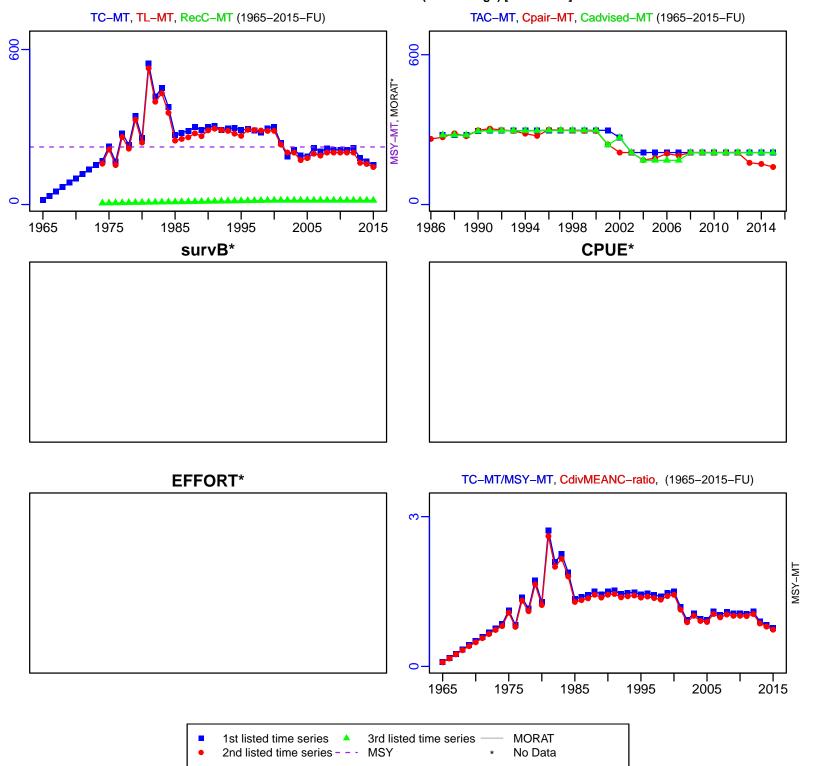
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUAPAU7-1965-2015-FU		
Area New Zealand Area PAU 7 (Marlborough)			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2011, 2015		

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	-	-	-		



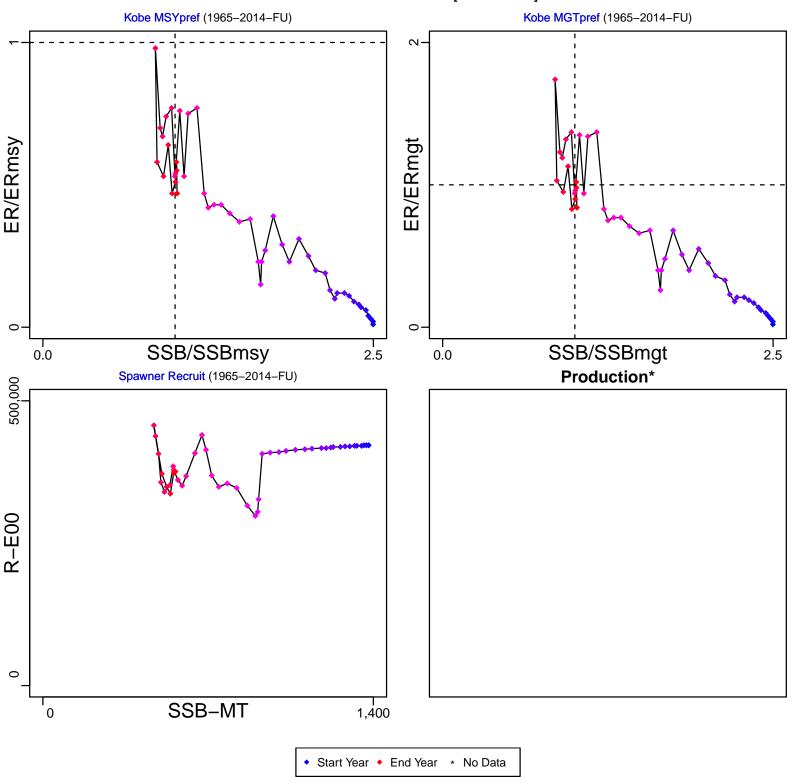


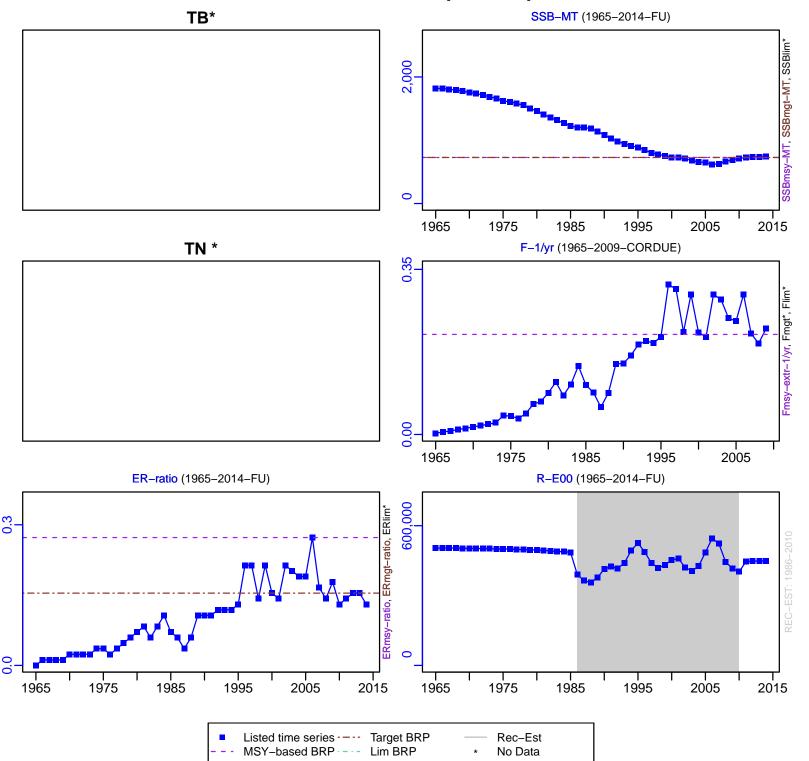


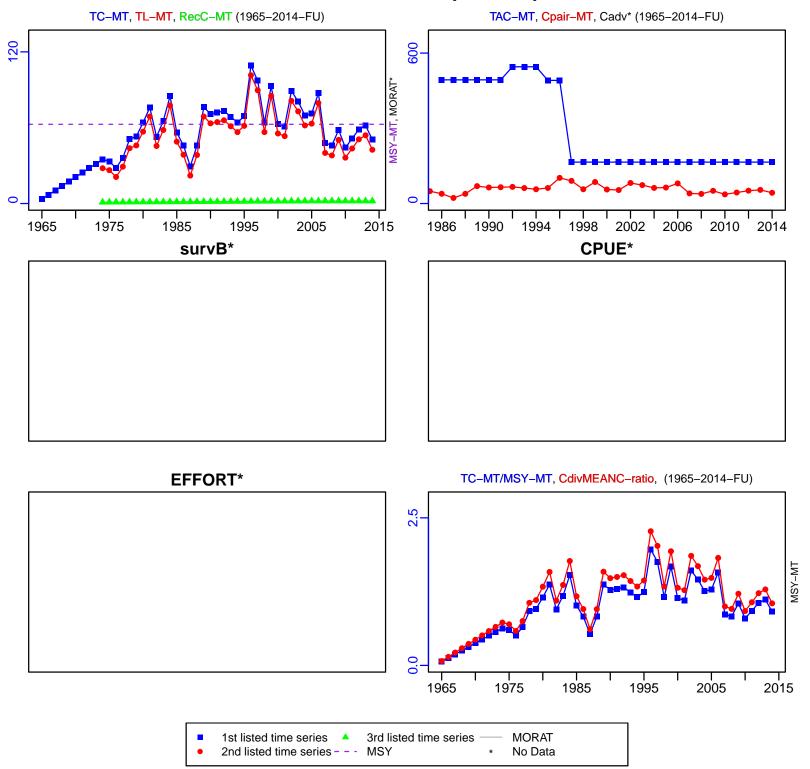
Metadata			
Scientific Name	Haliotis iris		
Current Assess ID	NIWA-PAUASPAU5A-1965-2014-FU		
Area NZ Area South PAUA 5A			
Management Authority	Ministry of Fisheries, New Zealand national management		
Assessor	National Institute of Water and Atmospheric Research		
Asmts in RAM	2009, 2014		

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	-	-	-		





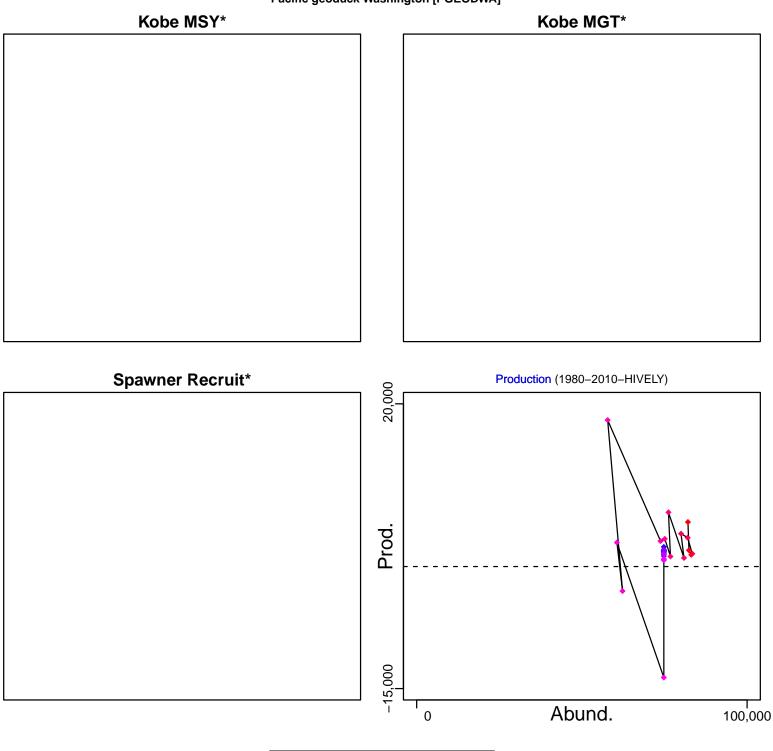


# Pacific geoduck Washington [PGEODWA]

Metadata			
Scientific Name	Panopea generosa		
Current Assess ID	WDFW-PGEODWA-1980-2010-HIVELY		
Area Washington			
Management Authority	State of Washington		
Assessor	Washington Department of Fish and Wildlife		
Asmts in RAM	2010		

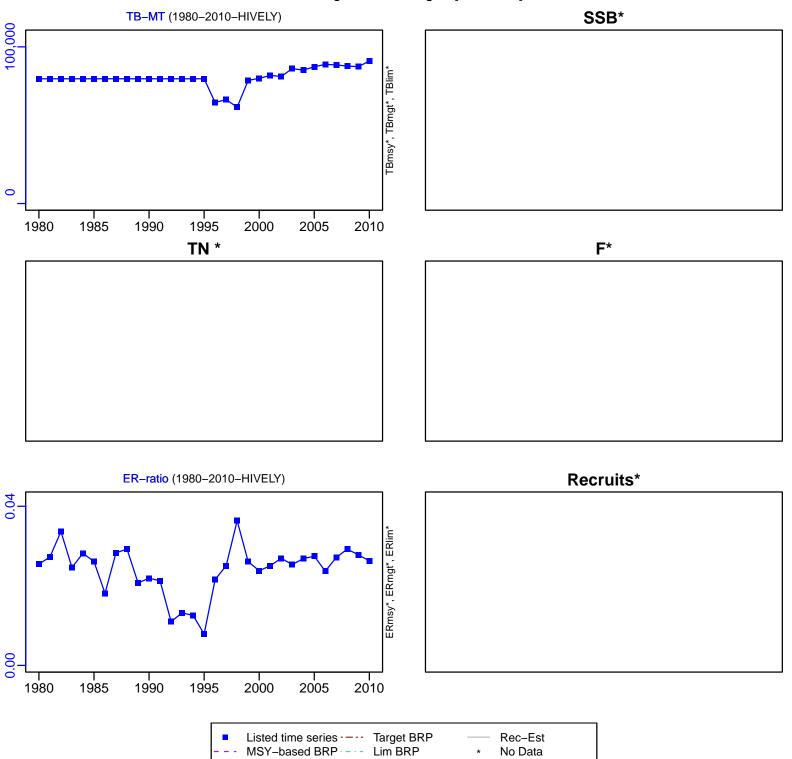
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	85,400	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.025	-	-
TC	TC-MT	2010	2150		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



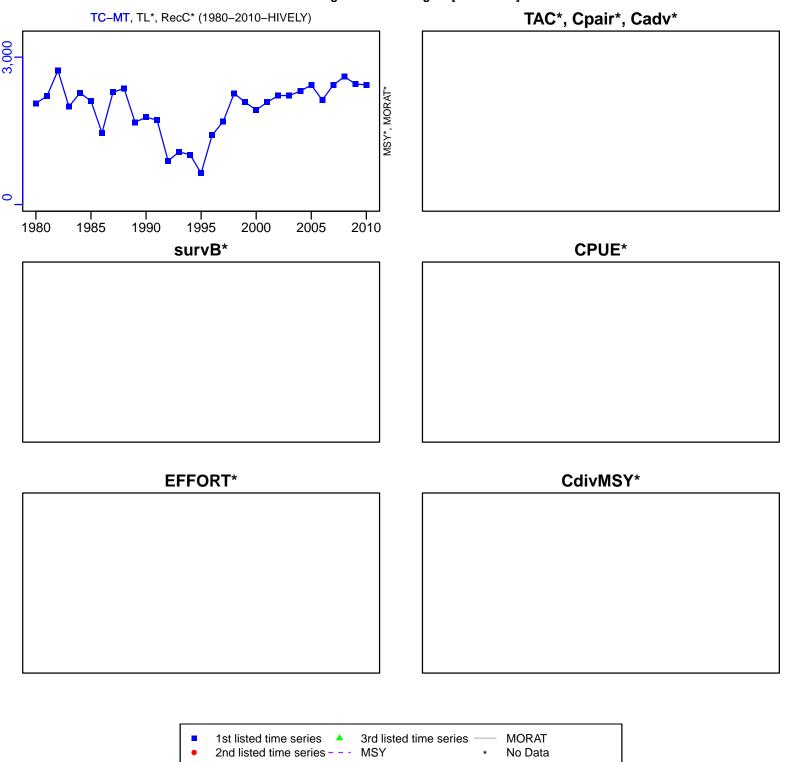
Start Year ◆ End Year \* No Data

#### Pacific geoduck Washington [PGEODWA]



No Data

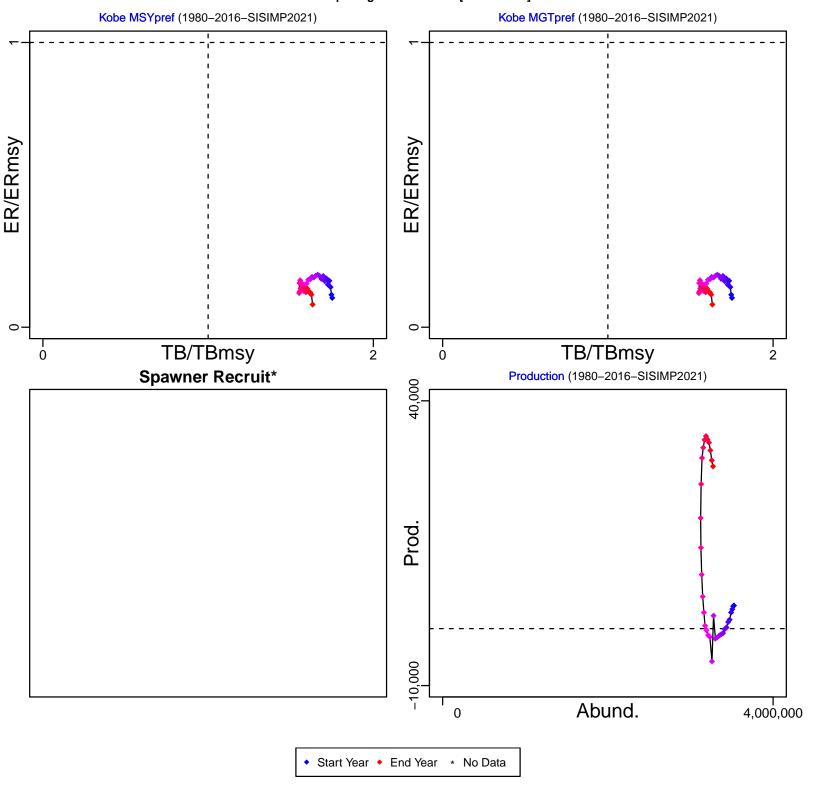
## Pacific geoduck Washington [PGEODWA]

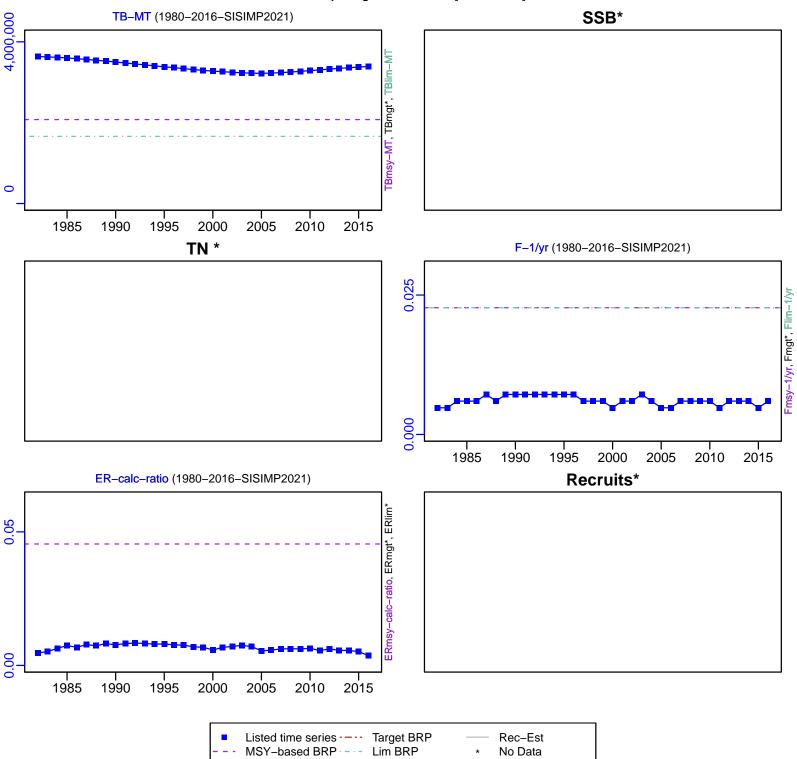


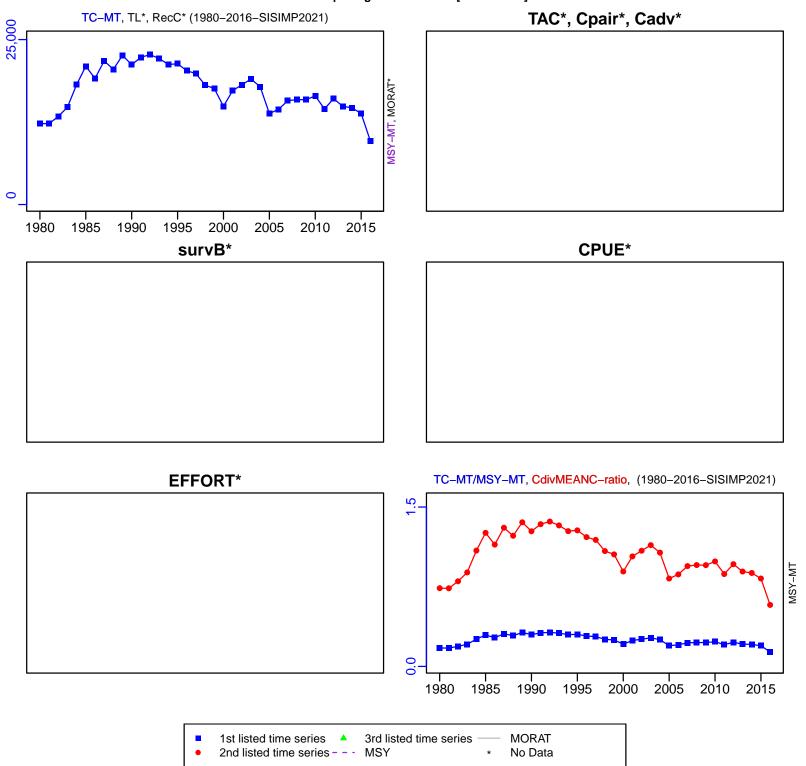
Metadata			
Scientific Name	Arctica islandica		
Current Assess ID NEFSC-QUAHATLC-1980-2016-SISIMP2021			
Area Atlantic Coast			
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northeast Fisheries Science Center		
Asmts in RAM	2008, 2011, 2016		

Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2016	2,013,585	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2016	0.019	
ERmsy	ERmsy-calc-ratio	2016	0.036	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2016	73,298	
М	M-1/yr	2008	0.02	
TBlim	TBlim-MT	2016	1,610,868	
SSBlim	-	-	-	
Flim	Flim-1/yr	2016	0.019	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2016	3,287,300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.005	-	-
ER	ER-calc-ratio	2016	0.003	-	-
TC	TC-MT	2016	9542		'
TL	TL-MT	2008	15,500		
TB/TBmsy	TB-MT/TBmsy-MT	2016	1.633		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.263		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2016	0.08		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





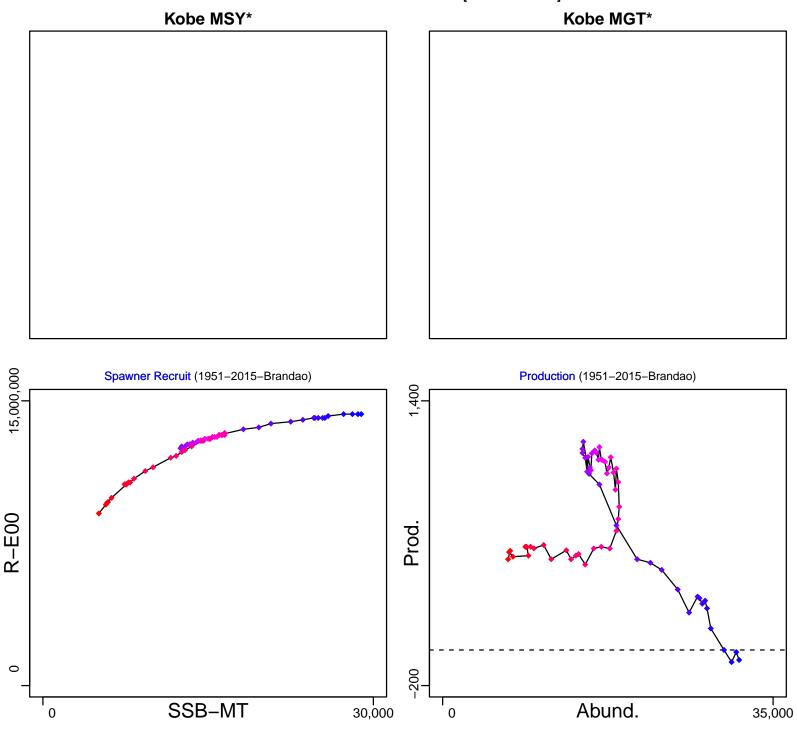


## South African abalone South Africa [SAABALONESA]

Metadata		
Scientific Name	Haliotis midae	
Current Assess ID	MARAM-SAABALONESA-1951-2015-Brandao	
Area	South Africa	
Management Authority	South African national management, Fisheries Branch of	
	Department of Agriculture, Forestry and Fisheries	
Assessor	Marine Resource Assessment and Management Group, Department of	
	Mathematics and Applied Mathematics, University of Cape Town,	
	Rondebosch, 7701, South Africa	
Asmts in RAM	2013, 2015	

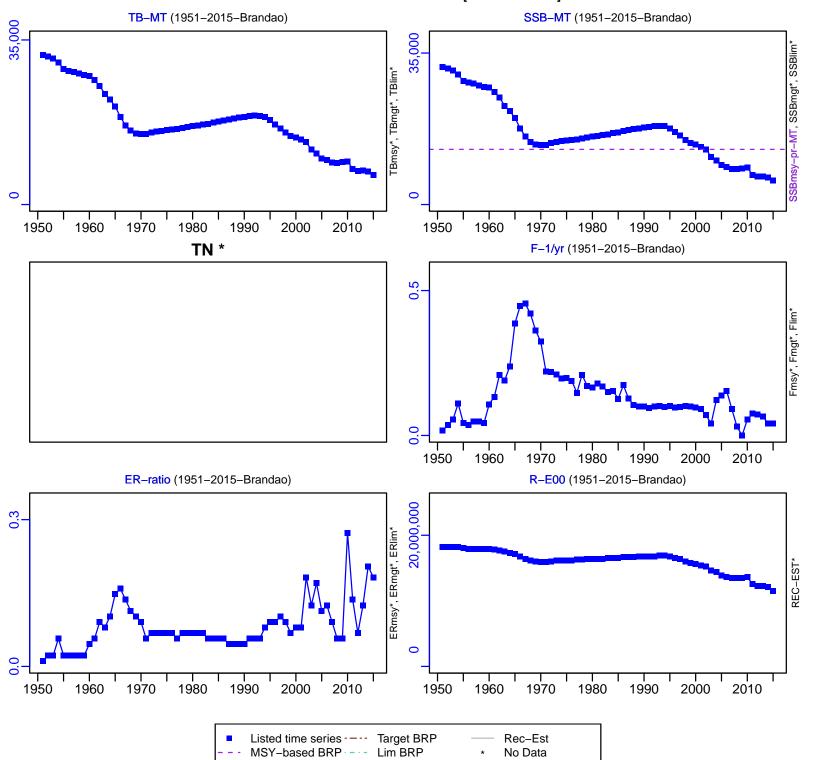
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2015	11,575
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2015	31,391
SSB0	SSB0-MT	2015	28,937
MSY	-	-	-
М	M-1/yr	2015	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

	Time S	eries			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	6210	-	1+
SSB	SSB-MT	2015	5080	Both	7+
TN	-	-	-	-	-
R	R-E00	2015	9,070,000	-	8
F	F-1/yr	2015	0.035	-	-
ER	ER-ratio	2015	0.16	-	-
TC	TC-MT	2015	985		
TL	TL-MT	2015	50		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2015	0.439		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt		-	-		
SSB/SSBmgt		-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

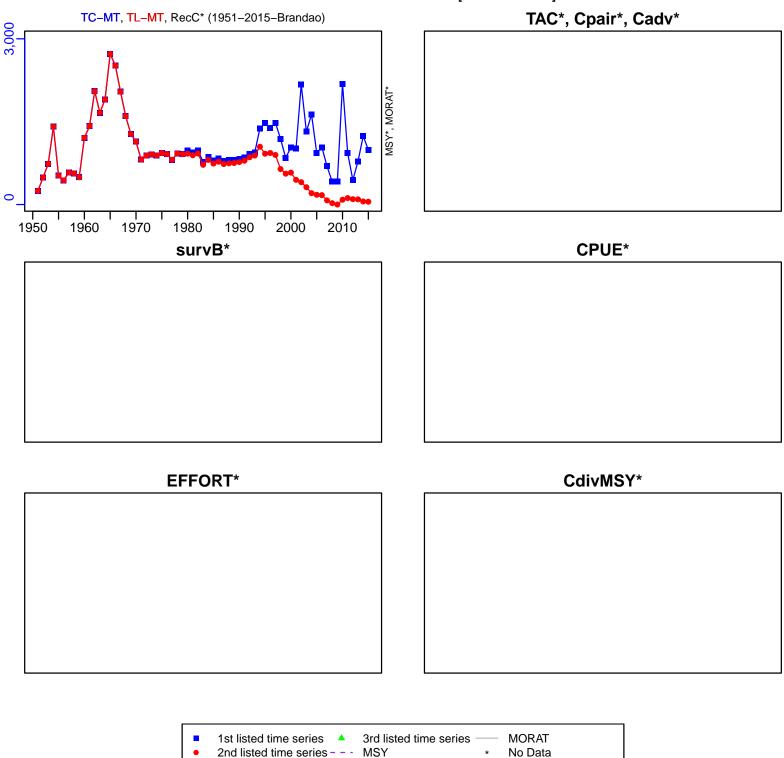


Start Year • End Year \* No Data

#### South African abalone South Africa [SAABALONESA]



### South African abalone South Africa [SAABALONESA]



	Metadata
Scientific Name	Placopecten magellanicus
Current Assess ID	DFO-NFLD-SCALL3Ps-1969-2010-CHING
Area	St. Pierre Bank
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Newfoundland Region
Asmts in RAM	2010

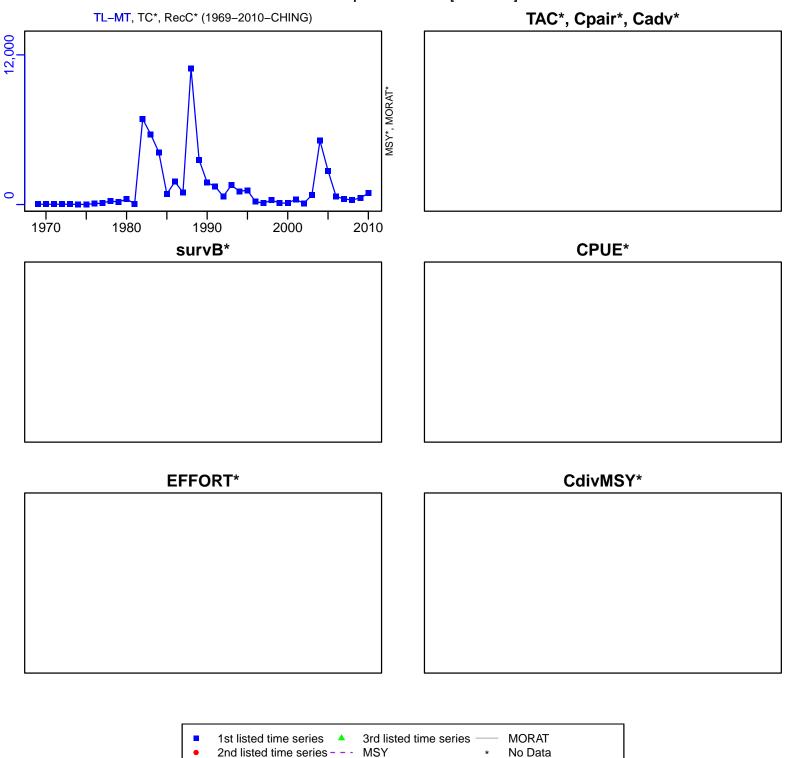
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	}		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	813		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	J L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data



# Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

	Metadata
Scientific Name	Placopecten magellanicus
Current Assess ID	DFO-SG-SCALL4T-1968-2016-ASHBROOK
Area	Southern Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	2014, 2010, 2016

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2016	0.225	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

		Time Series	}		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	72		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

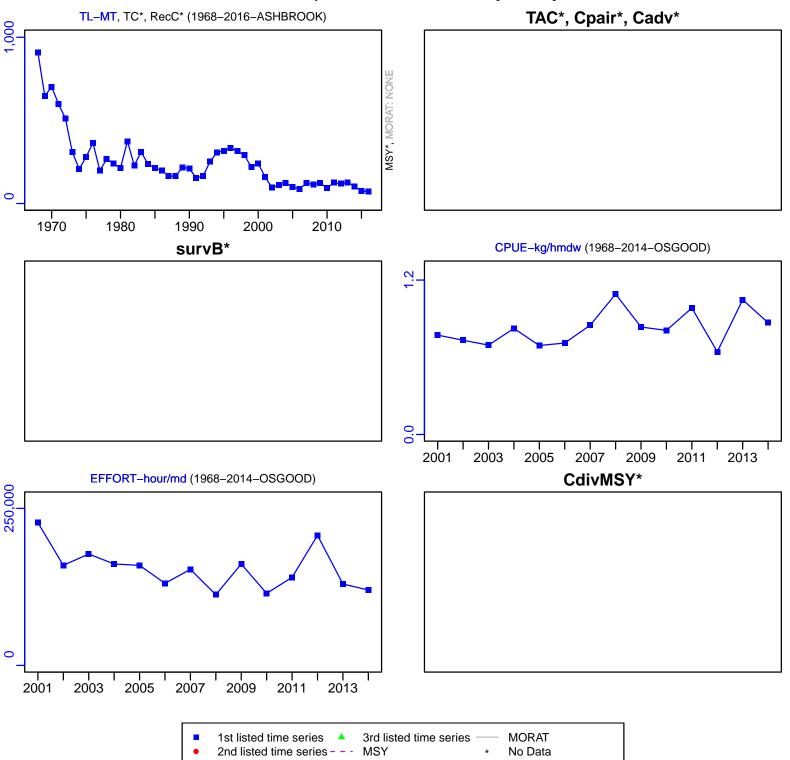
### Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

Kobe MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

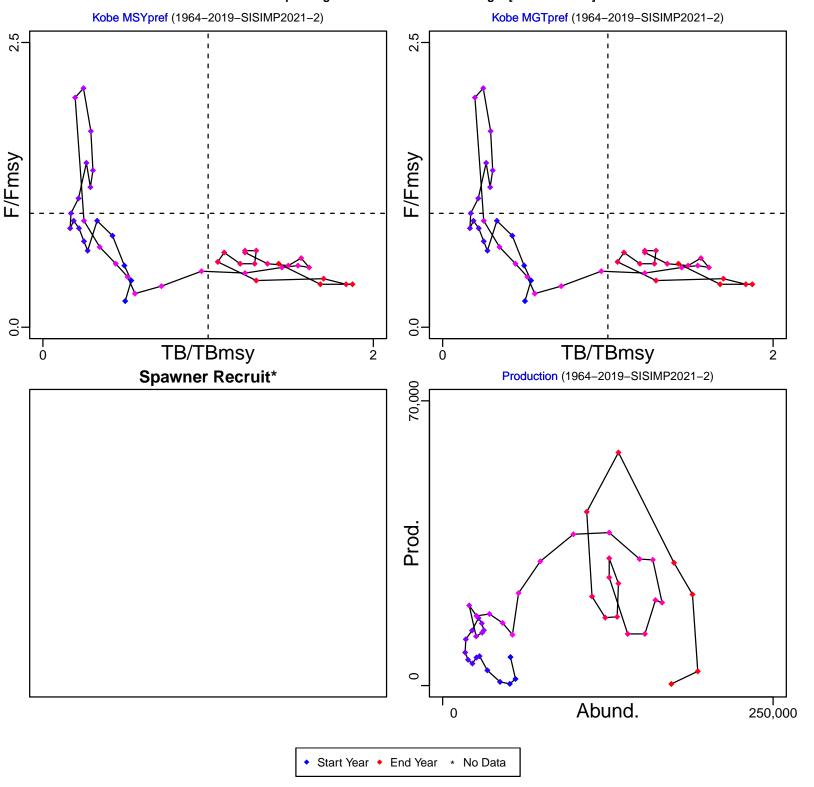
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

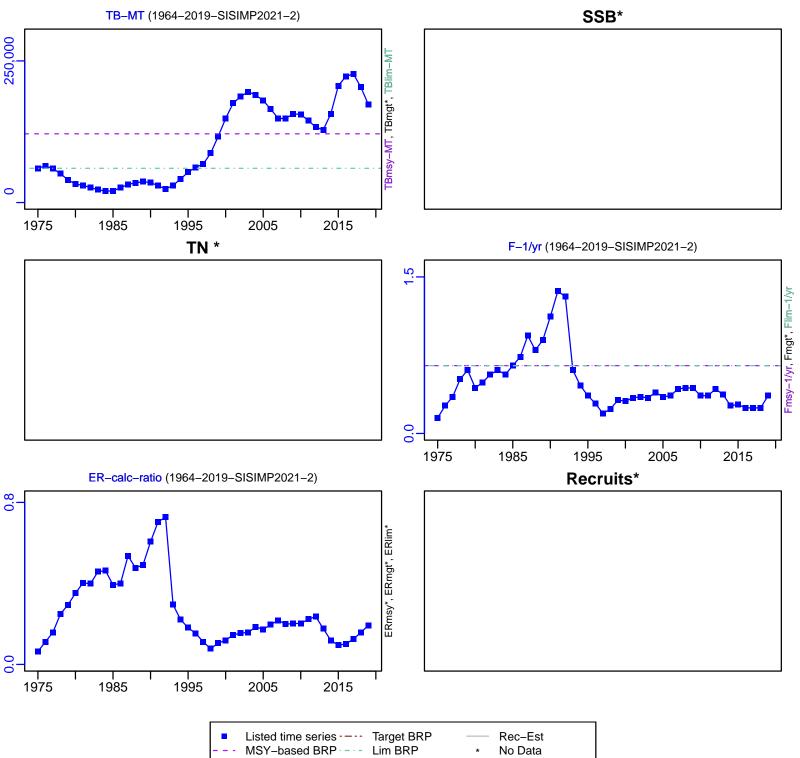


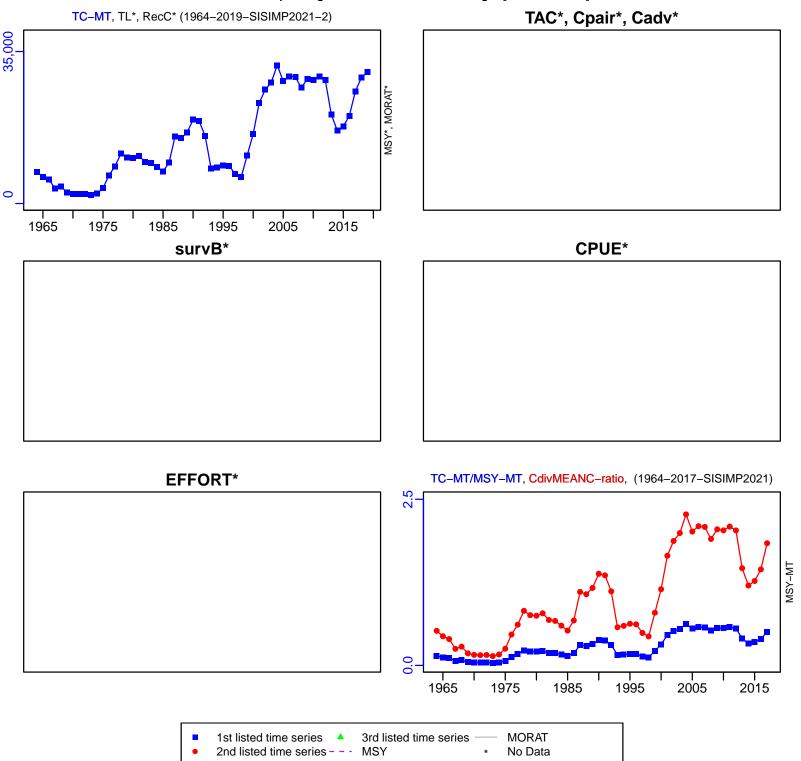
Metadata			
Scientific Name Placopecten magellanicus			
Current Assess ID NEFSC-SCALL5ZMAB-1964-2019-SISIMP2021-2			
Area	Georges Bank and Mid-Atlantic Bight		
Management Authority	National Marine Fisheries Service, US national management		
Assessor	Northeast Fisheries Science Center		
Asmts in RAM	2013, 2017, 2019		

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2019	103,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2019	0.61
ERmsy	ERmsy-calc-ratio	2017	0.398
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	46,531
M	M-1/yr	2013	0.12
TBlim	TBlim-MT	2019	51,300
SSBlim	-	-	-
Flim	Flim-1/yr	2019	0.61
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2019	147,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2019	0.34	-	-
ER	ER-calc-ratio	2019	0.188	-	-
TC	TC-MT	2019	27,600		'
TL	TL-MT	2013	18,700		
TB/TBmsy	TB-MT/TBmsy-MT	2019	1.427		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.557		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2017	0.186		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





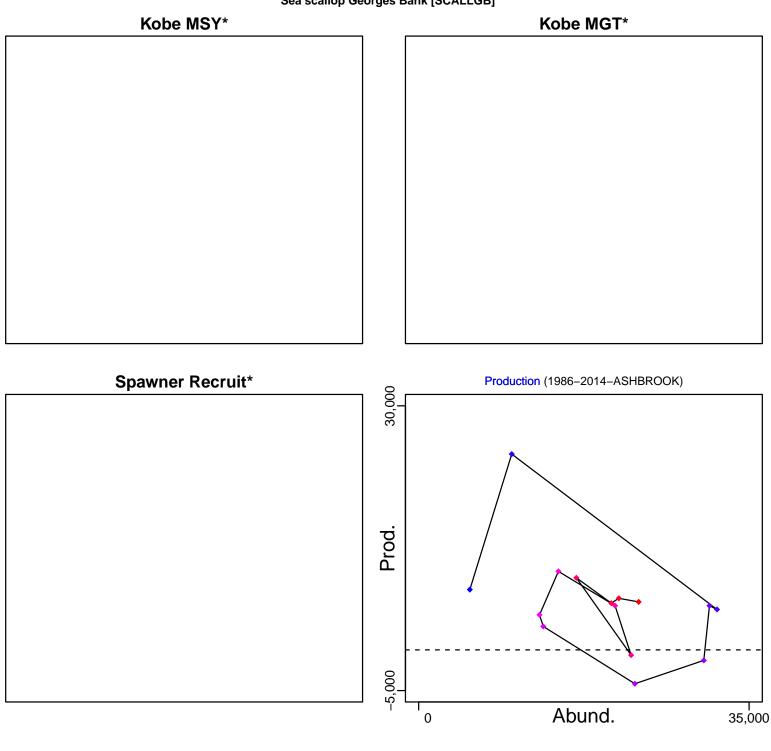


# Sea scallop Georges Bank [SCALLGB]

Metadata			
Scientific Name	Placopecten magellanicus		
Current Assess ID	DFO-SCALLGB-1986-2014-ASHBROOK		
Area	Georges Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012, 2007, 2014		

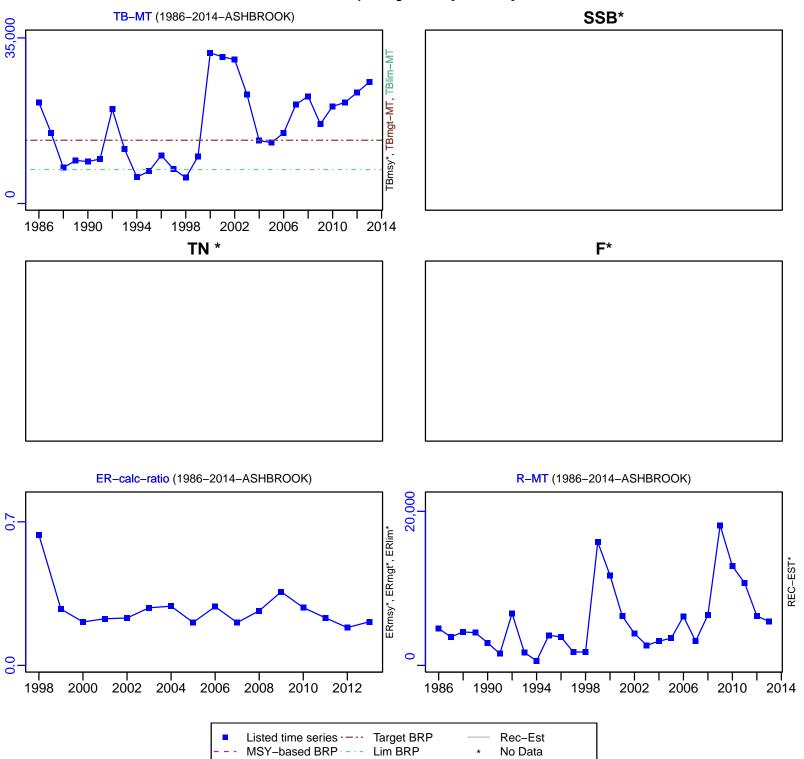
Reference Points						
Туре	ID	ID Asmt Year Valu				
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	TBmgt-MT	2014	13,284			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	M-1/yr	2014	0.159			
TBlim	TBlim-MT	2014	7137			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	25,500	Both	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2014	5270	Both	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.183	-	-
TC	-	-	-		
TL	TL-MT	2014	5020		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	TB-MT/TBmgt-MT	2014	1.92		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

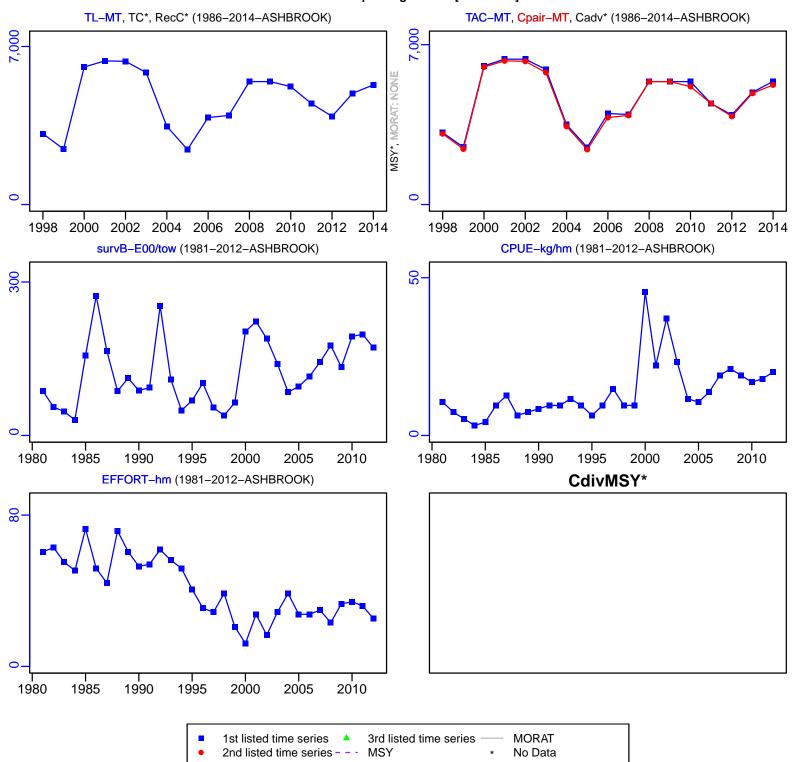


Start Year → End Year → No Data

#### Sea scallop Georges Bank [SCALLGB]



#### Sea scallop Georges Bank [SCALLGB]

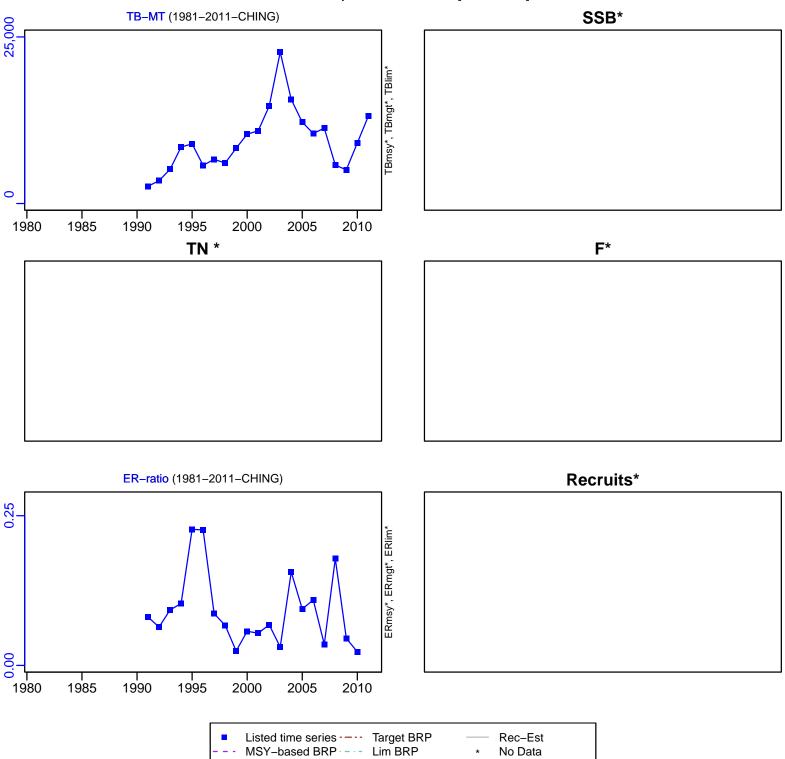


Metadata			
Scientific Name	Placopecten magellanicus		
Current Assess ID	DFO-MAR-SCALLNBB-1981-2011-CHING		
Area	North Brown Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2011		

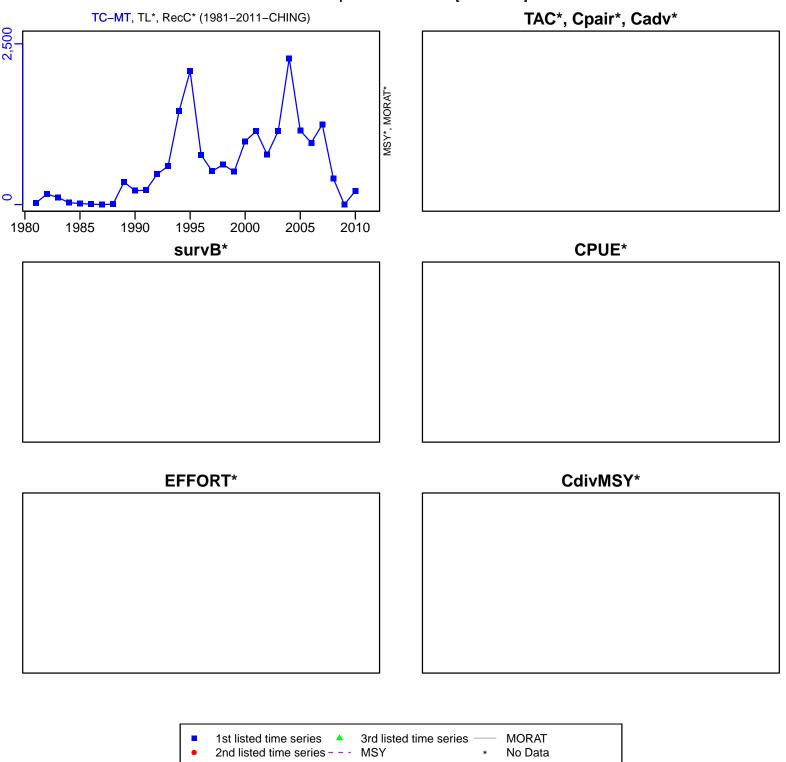
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	13,100	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.02	-	-
TC	TC-MT	2011	201		
TL	-	-	-	]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*



No Data



# Sea scallop Scallop Fishing Areas 16-20 [SCALLSFA16-20]

Metadata			
Scientific Name	Placopecten magellanicus		
Current Assess ID	DFO-QUE-SCALLSFA16-20-1965-2015-ASHBROOK		
Area	Scallop Fishing Areas 16-20		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in RAM	2012, 2015		

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

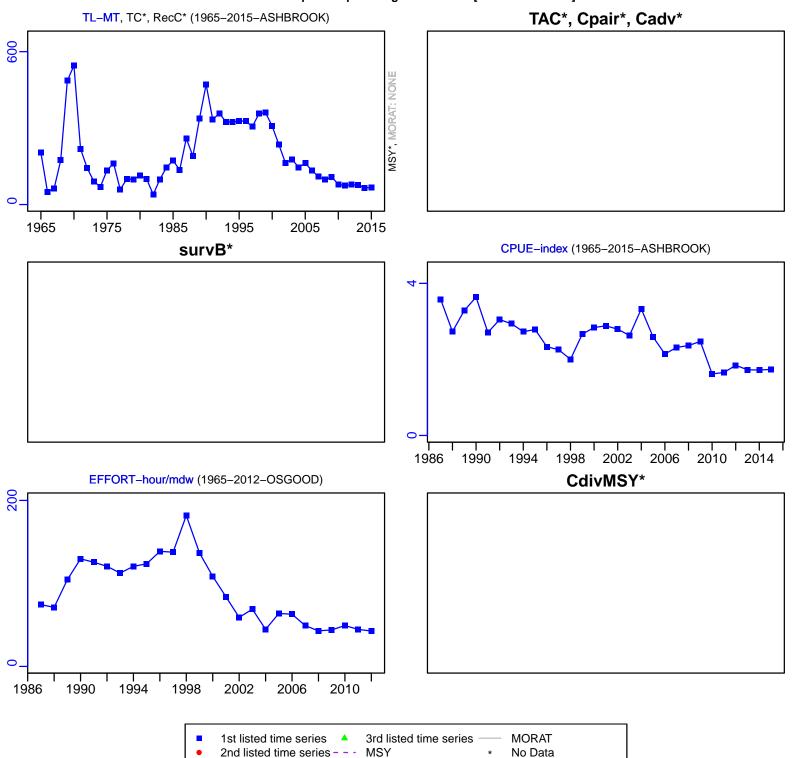
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	61		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

## Sea scallop Scallop Fishing Areas 16–20 [SCALLSFA16–20]

Kobe MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	Production*

## Sea scallop Scallop Fishing Areas 16–20 [SCALLSFA16–20]

TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	m BRP * No Data



Metadata			
Scientific Name	Placopecten magellanicus		
Current Assess ID	DFO-MAR-SCALLSPA1-6-1975-2010-CHING		
Area	Bay of Fundy (SPA 1-6)		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2010		

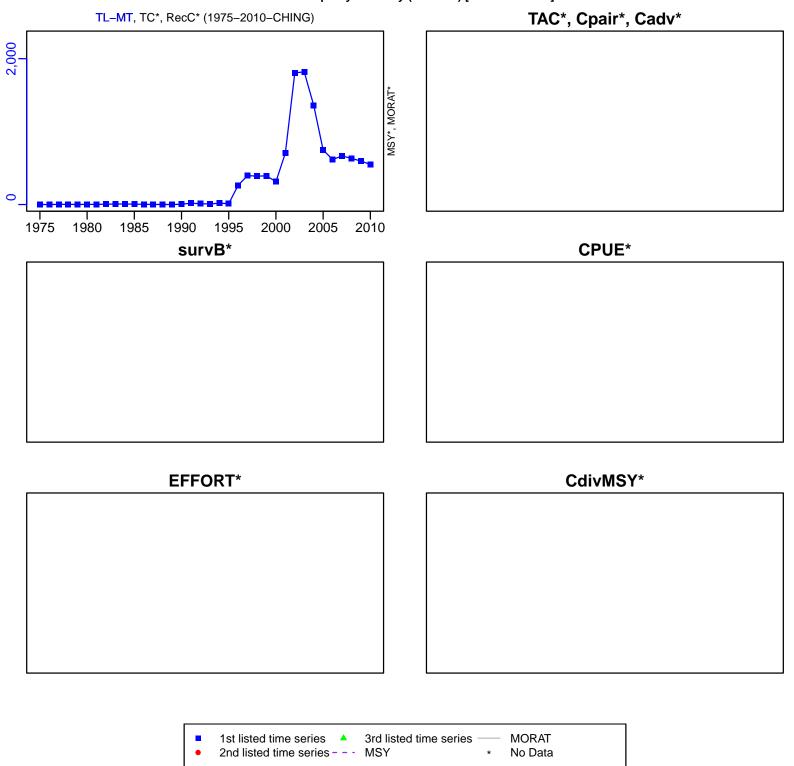
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	481		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Snawner Recruit*	Production*
Spawner Recruit*	Production*

TB*	SSB*
TN *	F*
I N	<b>F</b> *
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data

MSY-based BRP - - - -

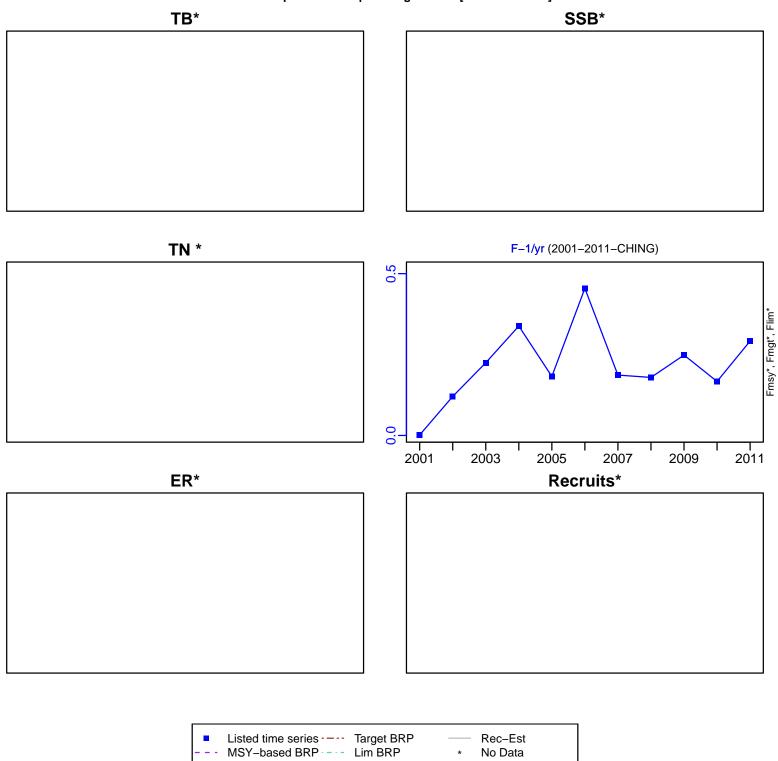


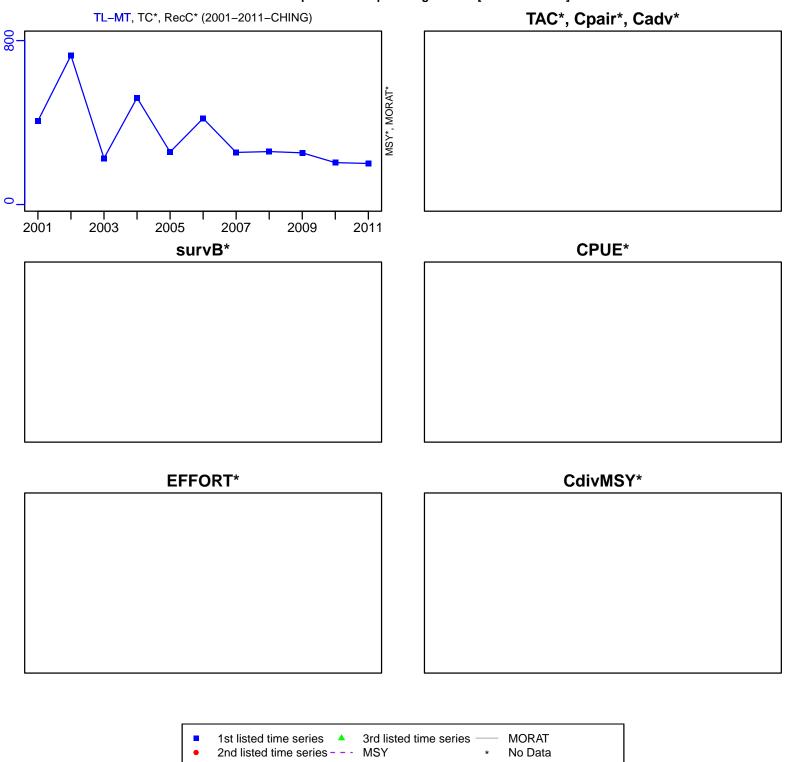
Metadata	
Scientific Name	Placopecten magellanicus
Current Assess ID	DFO-MAR-SCALLWSFA29-2001-2011-CHING
Area	West Scallop Fishing Area 29
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2011

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.283	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	197		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*





Metadata		
Scientific Name	Mya arenaria	
Current Assess ID	DFO-QUE-SSCLAMQCW-1900-2016-ASHBROOK	
Area	Quebec Coastal Waters	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2016, 2010	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	83		
TL	TL-MT	2010	55		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

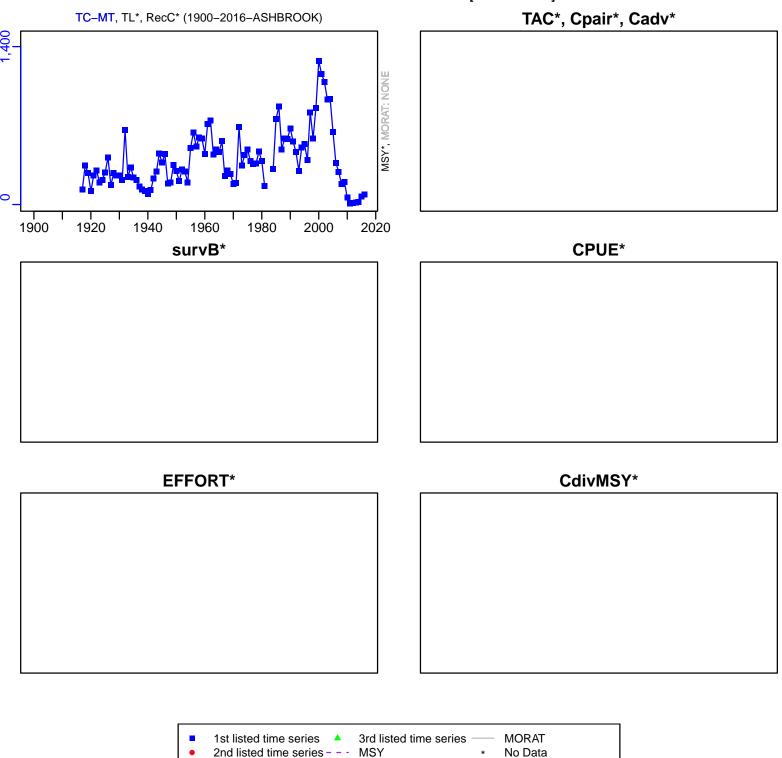
Kobe MSY*	Kobe MGT*
Consumer Descritt	Production*
	Production"
Spawner Recruit*	Troduction
Spawner Necruit	Froduction
Spawner Necruit	Froduction
Spawner Recruit	Froduction
Spawner Recruit	Froduction
Spawner Necruit	
Spawner Necruit	rioduction
Spawner Recruit	

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
Γ	
■ Listed time series Ta	arget BRP — Rec-Est

Lim BRP

No Data

MSY-based BRP · - · -



Metadata	
Scientific Name	Spisula solidissima
Current Assess ID	DFO-QUE-SURFIDLM-2002-2018-ASHBROOK
Area	Iles-de-la-Madeleine
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2018

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	348		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

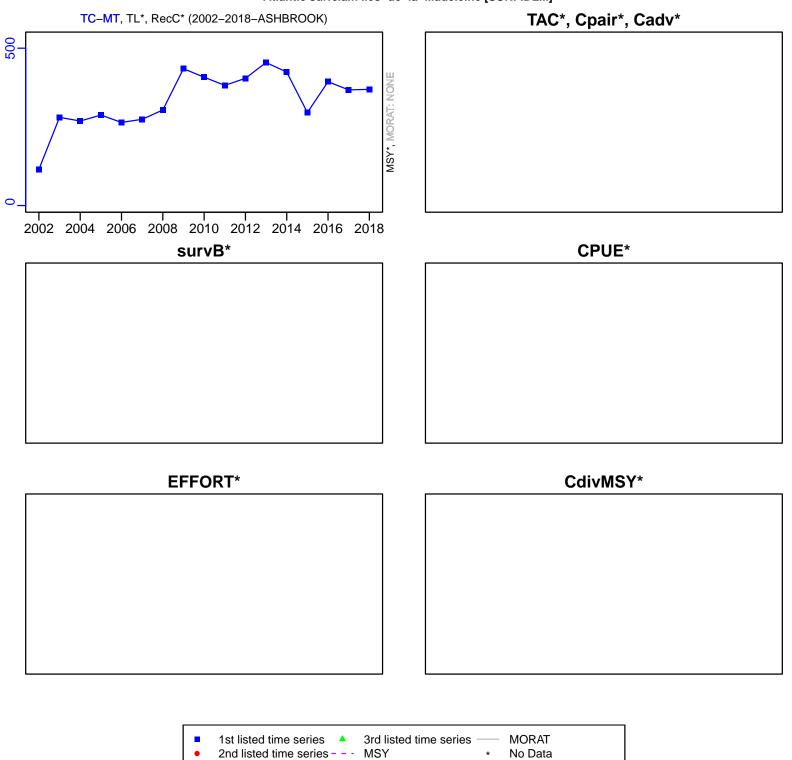
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

TB*	SSB*
TN *	F*
ER*	Recruits*
	Du Fil
■ Listed time series Ta	arget BRP — Rec-Est

Lim BRP

No Data

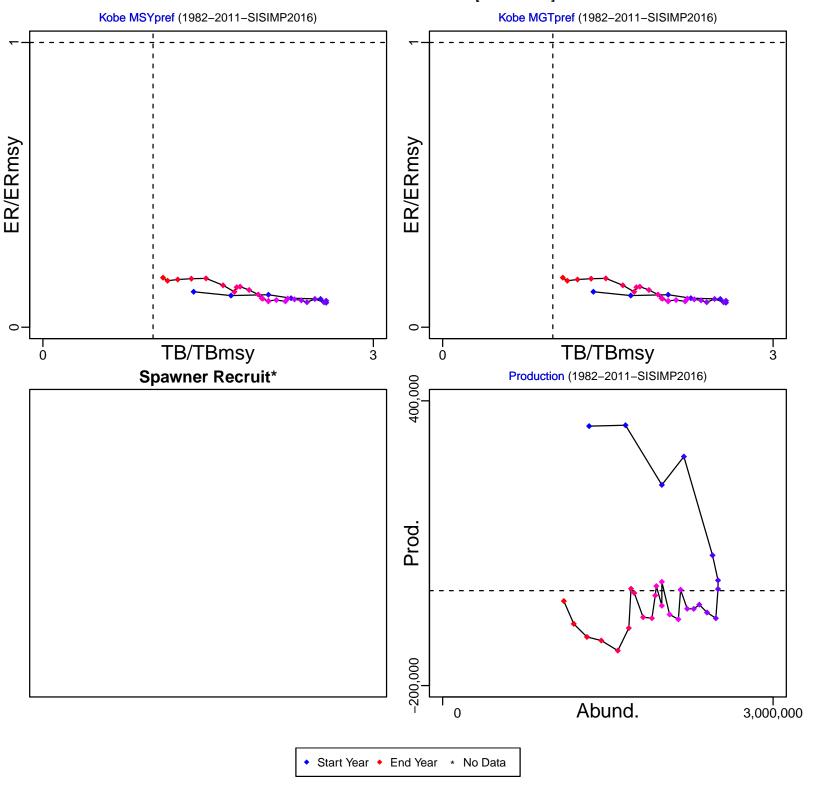
MSY-based BRP - - - -

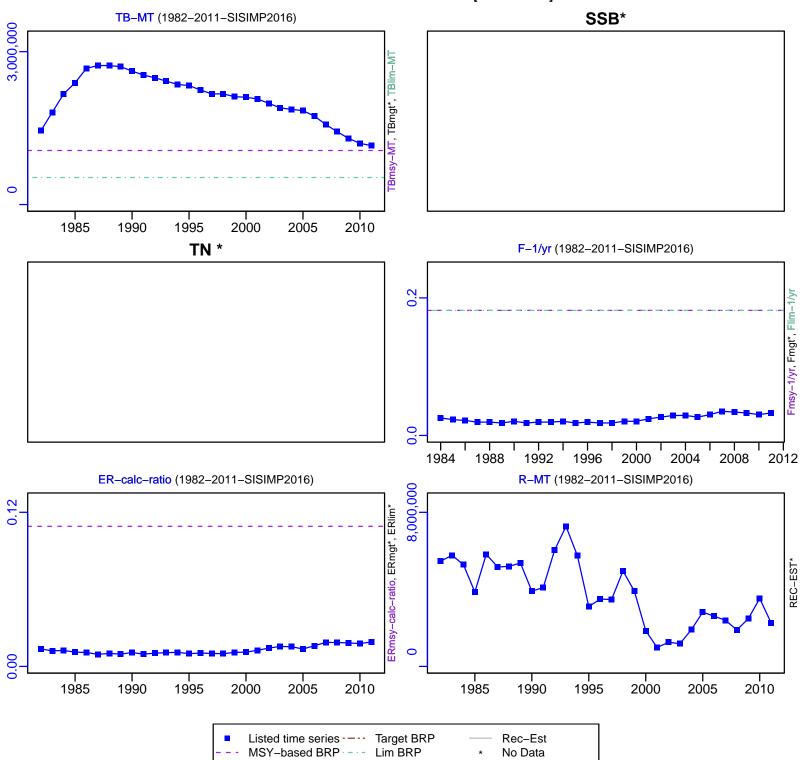


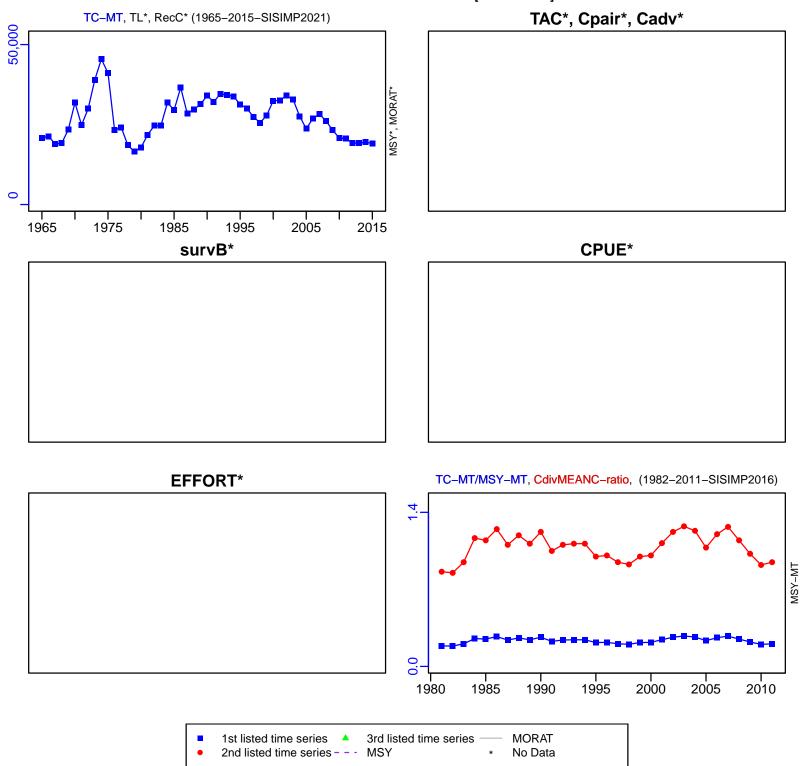
Metadata		
Scientific Name	Spisula solidissima	
Current Assess ID	<u>'</u>	
Area Mid-Atlantic Coast		
Management Authority	ity National Marine Fisheries Service, US national management	
Assessor	Northeast Fisheries Science Center	
Asmts in RAM	2008, 2015, 2011	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2011	972,000
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2011	0.15
ERmsy	ERmsy-calc-ratio	2011	0.101
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	98,000
М	M-1/yr	2008	0.15
TBlim	TBlim-MT	2011	486,000
SSBlim	-	-	-
Flim	Flim-1/yr	2011	0.15
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	1,060,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2011	2,090,000	-	-
F	F-1/yr	2011	0.027	-	-
ER	ER-calc-ratio	2011	0.018	-	-
TC	TC-MT	2015	18,284		
TL	TL-MT	2008	22,500		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.091		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	0.18		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2011	0.174		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







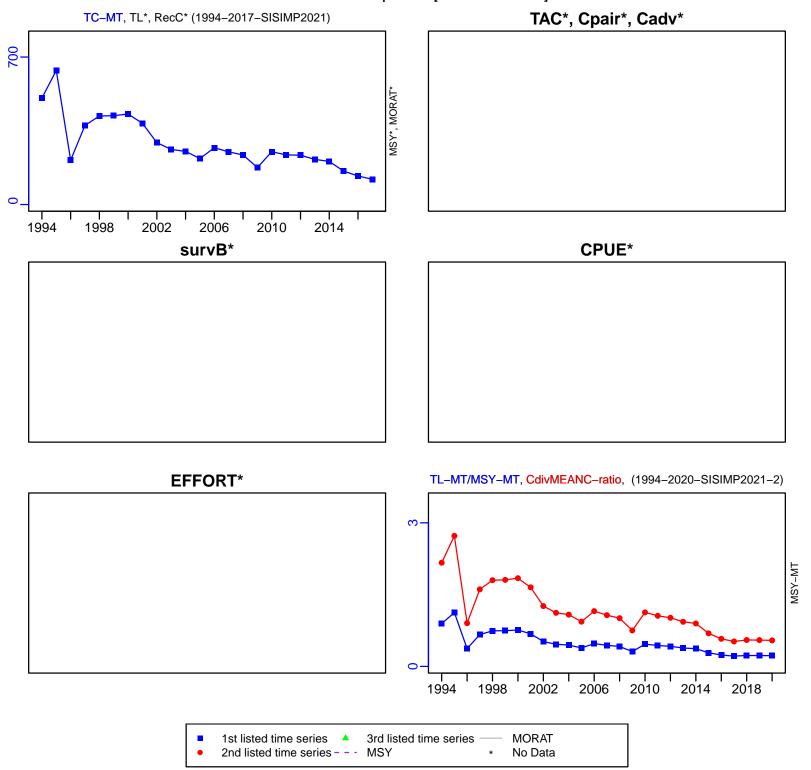
Metadata		
Scientific Name Patinopecten caurinus		
Current Assess ID	AFSC-WVSCALLALASKA-1994-2020-SISIMP2021-2	
<b>Area</b> Alaska		
Management Authority	National Marine Fisheries Service, US national management	
Assessor	Alaska Fisheries Science Center	
Asmts in RAM	2015, 2016, 2017, 2018, 2019, 2020	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2020	581	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	106		
TL	TL-MT	2020	112		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	_	-		

Kobe MSY*	Kobe MGT*
O D !#	Dua desation#
Spawner Recruit*	Production*
Spawner Recruit <sup>*</sup>	Production*
Spawner Recruit <sup>*</sup>	Production
Spawner Recruit*	Production*
Spawner Recruit*	Production*

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data



Metadata		
Scientific Name	Buccinum undatum	
Current Assess ID	DFO-QUE-WWHELKQCW-1984-2017-ASHBROOK	
Area	Quebec Coastal Waters	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2017, 2011	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	1329		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

