### **Canada East Coast Stocks**

v4.25 (Jan-28-2018)

- 1. Acadian redfish NAFO-2J3K [ACADRED2J3K]
- 2. Acadian redfish Units 1-2 and NAFO-3LNO [ACADRED3LNO-UT12]
- 3. Acadian redfish Unit 3 [ACADREDUT3]
- 4. American Plaice NAFO-23K [AMPL23K]
- 5. American Plaice NAFO-3LNO [AMPL3LNO]
- 6. American Plaice NAFO-3M [AMPL3M]
- 7. American Plaice NAFO-3Ps [AMPL3Ps]
- 8. American plaice Southern Gulf of St. Lawrence [AMPL4T]
- 9. American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]
- 10. Arctic surfclam Quebec and Gulf of St. Lawrence [ARCSURF4RST]
- 11. Arctic surfclam Banquereau [ARCSURFBANQ]
- 12. Arctic surfclam Grand Bank [ARCSURFGB]
- 13. Arctic surfclam Quebec Coastal Waters [ARCSURFQCW]
- 14. Atlantic halibut Scotian Shelf and Southern Grand Banks [ATHAL3NOPs4VWX5Zc]
- 15. Barndoor skate Canadian Atlantic Ocean [BSKATCANATL]
- 16. Capelin Gulf of St. Lawrence [CAPE4RST]
- 17. Atlantic cod NAFO 2J3KL [COD2J3KL]
- 18. Atlantic cod NAFO 3M [COD3M]
- 19. Atlantic cod NAFO 3NO [COD3NO]
- 20. Atlantic cod NAFO 3Pn4RS [COD3Pn4RS]
- 21. Atlantic cod NAFO 3Ps [COD3Ps]
- 22. Atlantic cod NAFO 4TVn [COD4TVn]
- 23. Atlantic cod NAFO 4VsW [COD4VsW]
- 24. Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]
- 25. Cusk NAFO 4X [CUSK4X]
- 26. Greenland halibut NAFO 23KLMNO [GHAL23KLMNO]
- 27. Greenland halibut NAFO 4RST [GHAL4RST]
- 28. Green sea urchin Gulf of St. Lawrence [GURCH4RST]
- 29. Haddock NAFO 3LNO [HAD3LNO]
- 30. Haddock NAFO-4X5Y [HAD4X5Y]
- 31. Herring NAFO 4R fall spawners [HERR4RFA]
- 32. Herring NAFO 4R spring spawners [HERR4RSP]
- 33. Herring Quebec North Shore [HERR4S]
- 34. Herring NAFO 4T fall spawners [HERR4TFA]
- 35. Herring NAFO 4T spring spawners [HERR4TSP]
- 36. Herring Scotian Shelf and Bay of Fundy [HERR4VWX]
- 37. Herring Newfoundland East and South Coast [HERRNFLDESC]
- 38. American lobster Quebec North Shore and Anticosti Island (LFA 15-18) [LOBSTERLFA15-18]
- 39. American lobster Gaspe (LFA 19-21) [LOBSTERLFA19-21]
- 40. American lobster Magdalen Islands (LFA 22) [LOBSTERLFA22]
- 41. American lobster Southern Gulf of St. Lawrence [LOBSTERLFA23-26AB]
- 42. American lobster Atlantic Coast of Nova Scotia (LFA 27-33) [LOBSTERLFA27-33]
- 43. American lobster LFA 3-14 [LOBSTERLFA3-14]
- 44. American lobster Lobster Fishing Area 34 [LOBSTERLFA34]
- 45. American lobster Lobster Fishing Areas 35-38 [LOBSTERLFA35-38]
- 46. American Lobster LFA 41 [LOBSTERLFA41]
- 47. Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]
- 48. Monkfish Labrador Shelf Grand Banks St. Pierre Bank [MONK2J3KLNOPs]
- 49. Northern shrimp Canada-DFO-4RST [PANDAL4RST]
- 50. Northern shrimp Eastern Scotian Shelf (SFA 13-15) [PANDALSFA13-15]

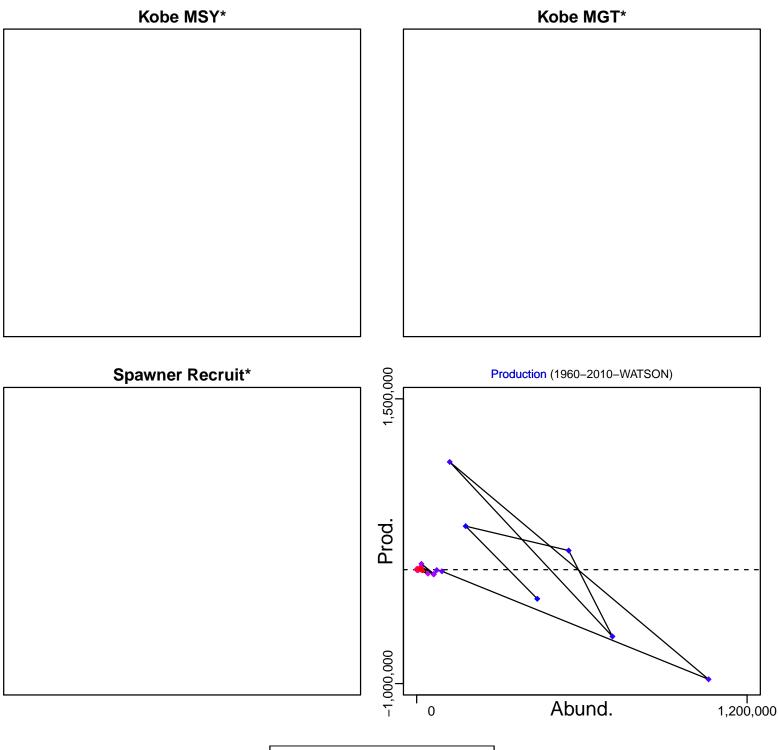
- 51. Northern shrimp Shrimp Fishing Areas 2-3 [PANDALSFA2-3]
- 52. Northern shrimp SFA 4 [PANDALSFA4]
- 53. Northern shrimp SFA 5 [PANDALSFA5]
- 54. Northern shrimp SFA 6 [PANDALSFA6]
- 55. Pollock St. Pierre Bank [POLL3Ps]
- 56. Pollock Scotian Shelf and Bay of Fundy [POLL4VWX]
- 57. Porbeagle shark Atlantic Ocean [PORSHARATL]
- 58. Deepwater redfish NAFO-2J3K-3LNO [REDDEEP2J3K-3LNO]
- 59. Deepwater redfish Units 1-2 [REDDEEPUT12]
- 60. Redfish species NAFO 3LN [REDFISHSPP3LN]
- 61. Redfish species NAFO 3M [REDFISHSPP3M]
- 62. Redfish species NAFO 3Pn4RSTVn [REDFISHSPP3Pn4RSTVn]
- 63. Rock crab Southern Gulf of St. Lawrence [ROCKCRABLFA23-26]
- 64. Rock crab Quebec Coastal Waters [ROCKCRABQCW]
- 65. Sea scallop St. Pierre Bank [SCALL3Ps]
- 66. Sea scallop Southern Gulf of St. Lawrence [SCALL4T]
- 67. Sea scallop Georges Bank [SCALLGB]
- 68. Sea scallop North Brown Bank [SCALLNBB]
- 69. Sea scallop Northern Gulf of St Lawrence [SCALLSFA16-20]
- 70. Sea scallop Bay of Fundy (SPA 1-6) [SCALLSPA1-6]
- 71. Sea scallop West Scallop Fishing Area 29 [SCALLWSFA29]
- 72. Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]
- 73. Silver hake Scotian Shelf and Bay of Fundy [SHAKE4VWX]
- 74. Smooth skate NAFO-2J3K [SMOOTHSKA2J3K]
- 75. Smooth skate Southern Gulf of St. Lawrence [SMOOTHSKA4T]
- 76. Snow Crab Division 2HJ [SNOWCRAB2HJ]
- 77. Snow Crab Division 3K [SNOWCRAB3K]
- 78. Snow Crab Division 3LNO [SNOWCRAB3LNO]
- 79. Snow Crab Division 3Ps [SNOWCRAB3Ps]
- 80. Snow Crab Division 4R3Pn [SNOWCRAB4R3Pn]
- 81. Snow crab Northern Gulf of St. Lawrence [SNOWCRABSCMA12-17]
- 82. Snow crab Southern Gulf of St. Lawrence [SNOWCRABSGSL]
- 83. Softshell clam Quebec Coastal Waters [SSCLAMQCW]
- 84. Aesop shrimp Shrimp Fishing Areas 2-3 [STRSHRIMPSFA2-3]
- 85. Thorny skate NAFO-3LNOPs [TSKA3LNOPs]
- 86. Thorny skate Southern Gulf of St. Lawrence [TSKA4T]
- 87. White hake Southern Grand Bank and St. Pierre Bank [WHAKE3NOPs]
- 88. White hake Northern Gulf of St. Lawrence [WHAKE4RS]
- 89. White hake Southern Gulf of St. Lawrence [WHAKE4T]
- 90. White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]
- 91. Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]
- 92. Witch flounder NAFO-3Ps [WITFLOUN3Ps]
- 93. Witch flounder Gulf of St. Lawrence [WITFLOUN4RST]
- 94. Waved whelk Quebec Coastal Waters [WWHELKQCW]
- 95. Yellowtail Flounder NAFO 3LNO [YELL3LNO]

## Acadian redfish NAFO-2J3K [ACADRED2J3K]

Metadata			
Scientific Name Sebastes fasciatus			
Current Assess ID	DFO-ACADRED2J3K-1960-2010-WATSON		
Area NAFO Division 2J3K			
Management Authority Department of Fisheries and Oceans, Canada national manageme			
Assessor Department of Fisheries and Oceans			
Asmts in RAM	2010		

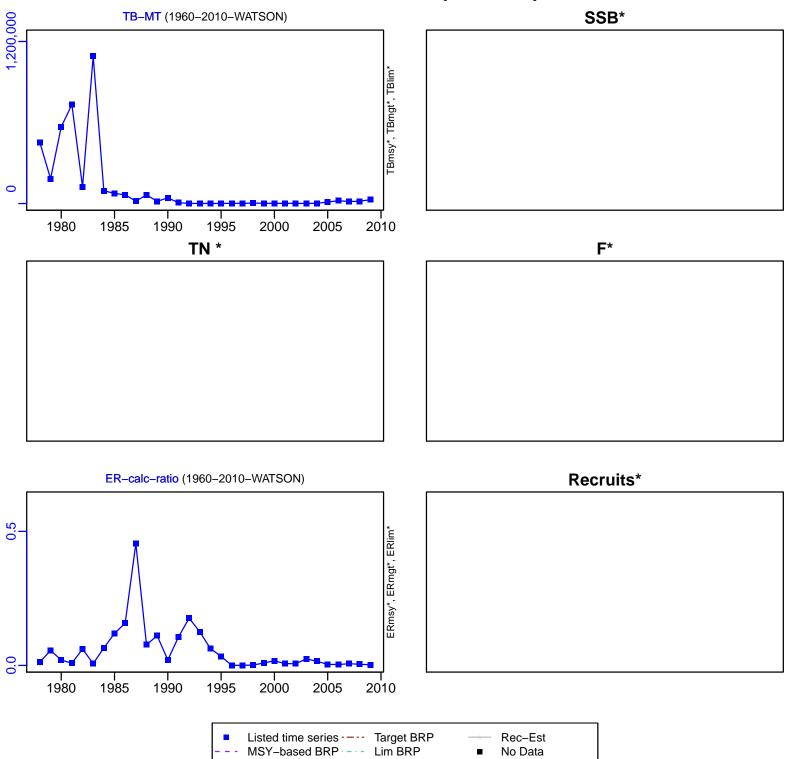
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	3000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	27,600	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0	-	-
TC	TC-MT	2010	49		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-	]	
F/Fmgt	-	-	-	]	
ER/ERmgt	-	-	-		



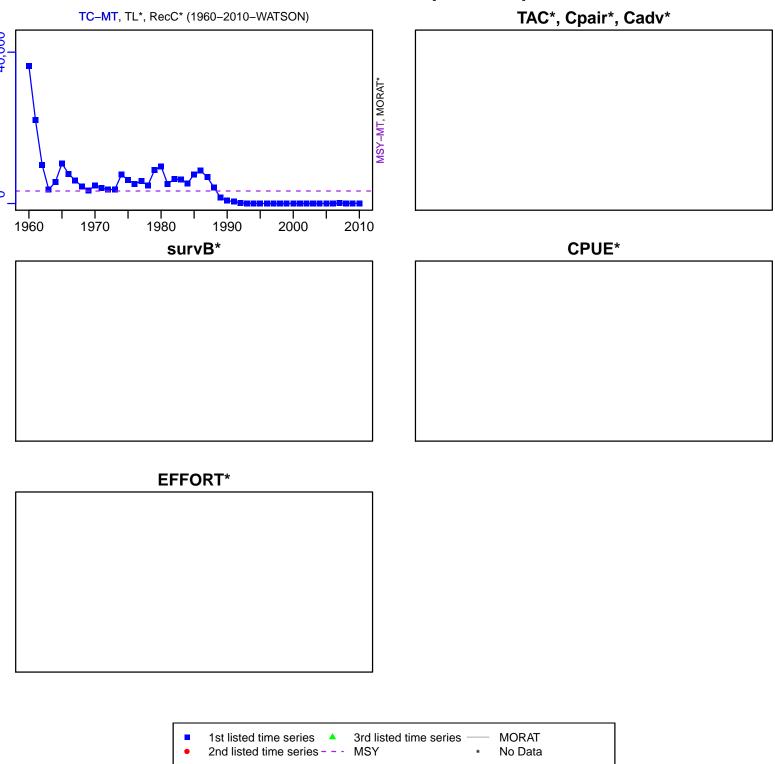
Start Year • End Year \* No Data

#### Acadian redfish NAFO-2J3K [ACADRED2J3K]



No Data

#### Acadian redfish NAFO-2J3K [ACADRED2J3K]



# Acadian redfish Units 1-2 and NAFO-3LNO [ACADRED3LNO-UT12]

Metadata			
Scientific Name Sebastes fasciatus			
Current Assess ID DFO-ACADRED3LNO-UT12-1960-2010-WATSON			
Area NAFO Division 3LNO and Units 1 and 2			
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	MSY-MT	2010	116,000		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

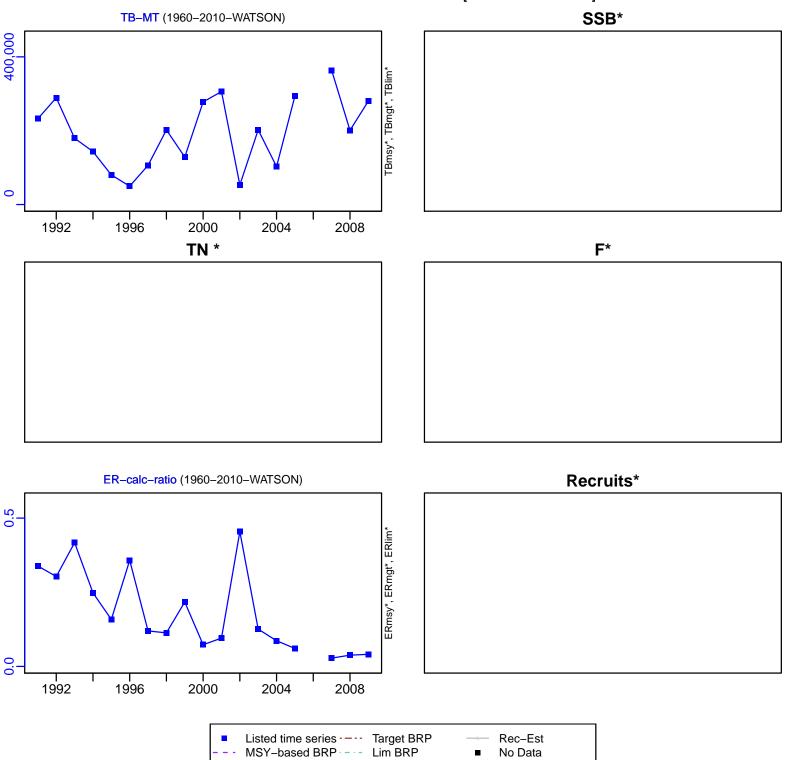
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	248,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.04	-	-
TC	TC-MT	2010	9000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

### Acadian redfish Units 1–2 and NAFO–3LNO [ACADRED3LNO–UT12]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

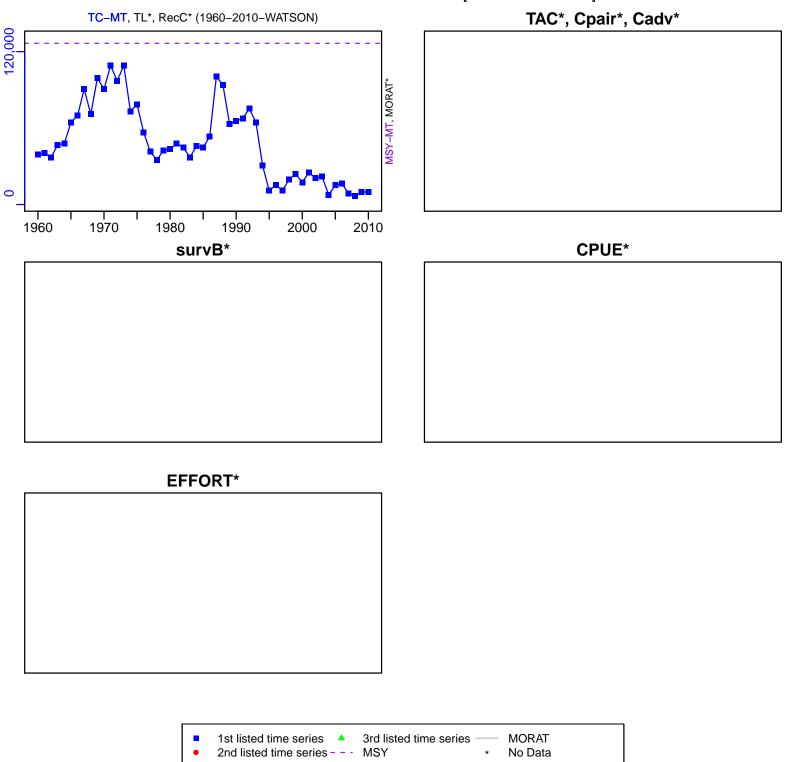
◆ Start Year ◆ End Year \* No Data

#### Acadian redfish Units 1-2 and NAFO-3LNO [ACADRED3LNO-UT12]



No Data

### Acadian redfish Units 1-2 and NAFO-3LNO [ACADRED3LNO-UT12]

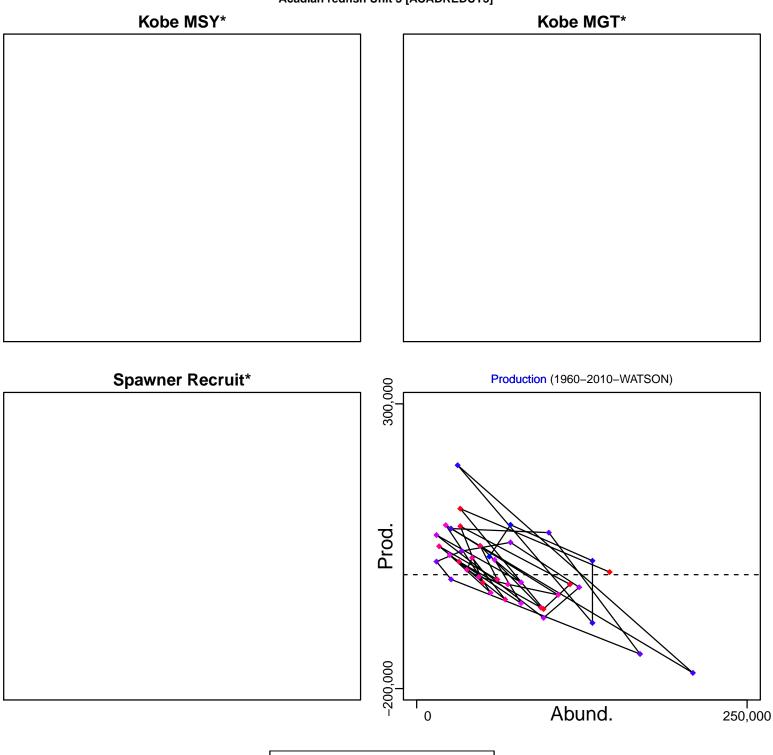


## Acadian redfish Unit 3 [ACADREDUT3]

Metadata			
Scientific Name Sebastes fasciatus			
Current Assess ID	DFO-ACADREDUT3-1960-2010-WATSON		
Area Unit 3			
Management Authority Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2010		

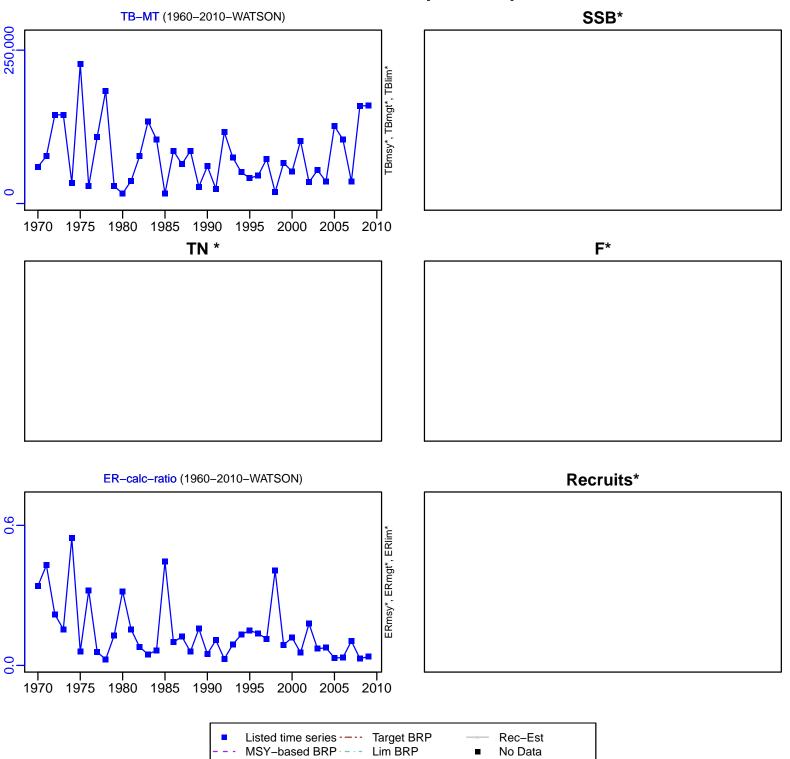
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	131,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	147,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.03	-	-
TC	TC-MT	2010	5200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

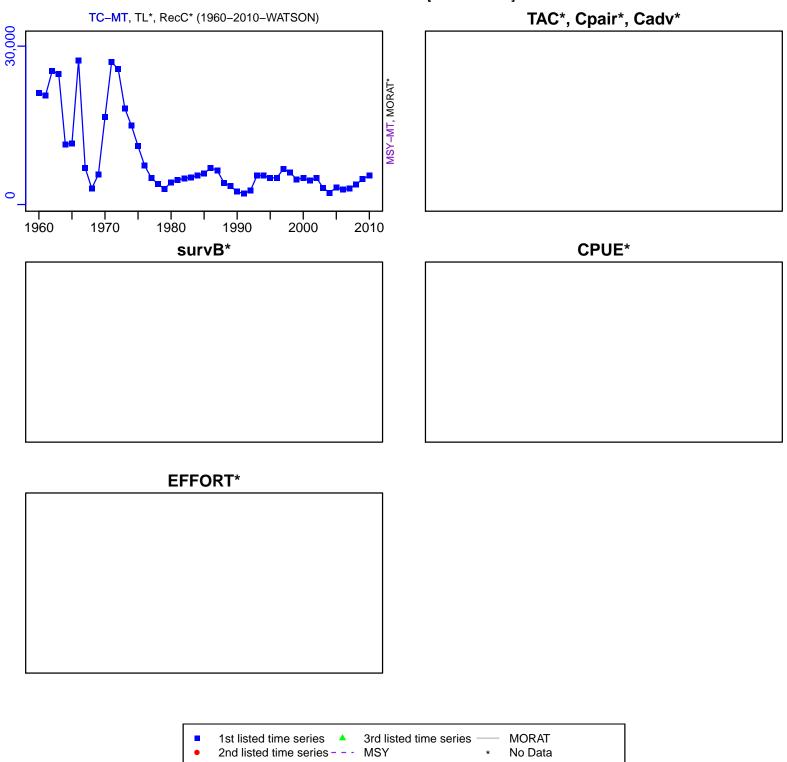


Start Year • End Year \* No Data

#### Acadian redfish Unit 3 [ACADREDUT3]



### Acadian redfish Unit 3 [ACADREDUT3]

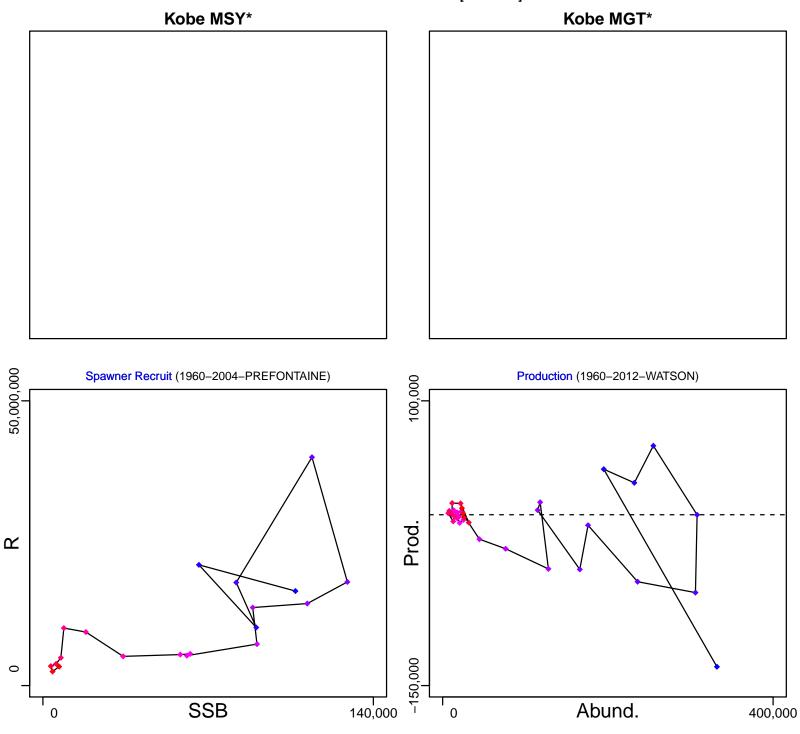


## American Plaice NAFO-23K [AMPL23K]

Metadata			
Scientific Name Hippoglossoides platessoides			
Current Assess ID	DFO-AMPL23K-1960-2012-WATSON		
Area Labrador - NE Newfoundland			
Management Authority   Department of Fisheries and Oceans, Canada national managem			
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012, 2004		

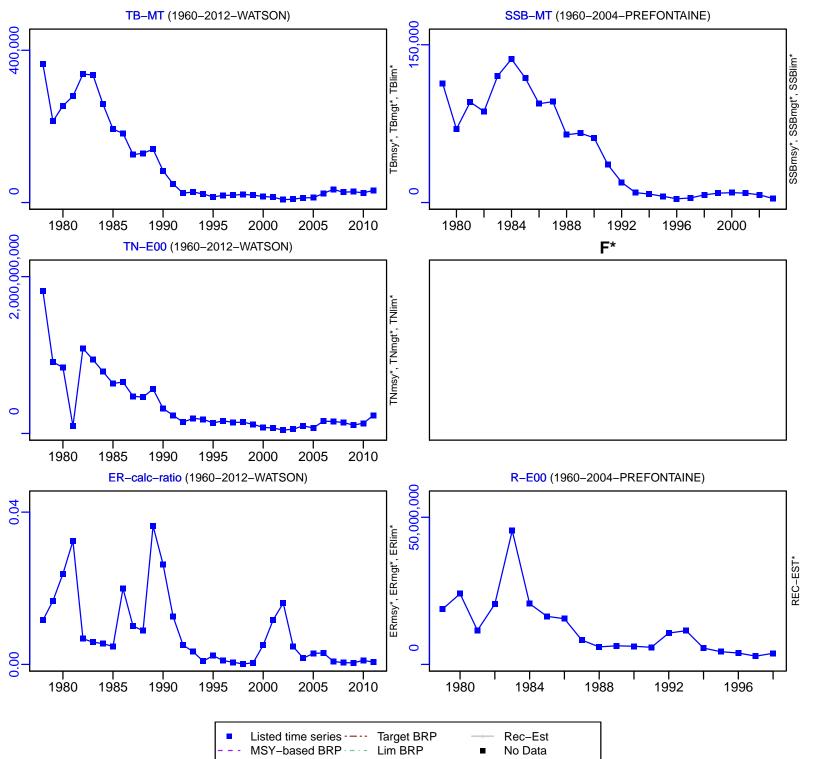
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	29,000	Both	-
SSB	SSB-MT	2004	3620	Females	-
TN	TN-E00	2012	$2.17 \times 10^{8}$	-	-
R	R-E00	2004	3,330,000	-	3+
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	17		
TL	TL-MT	2012	65		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

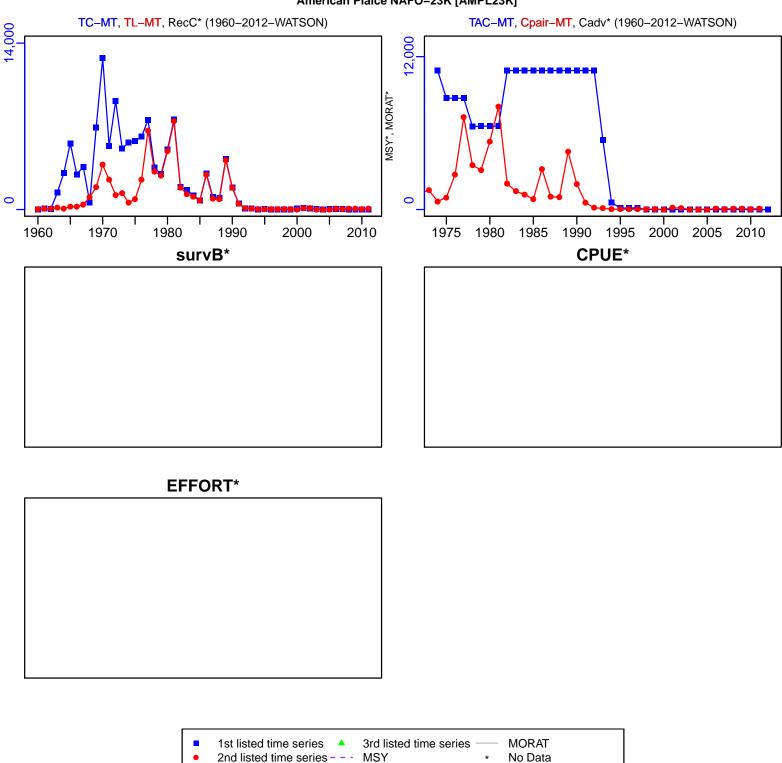


Start Year → End Year → No Data

#### American Plaice NAFO-23K [AMPL23K]



### American Plaice NAFO-23K [AMPL23K]

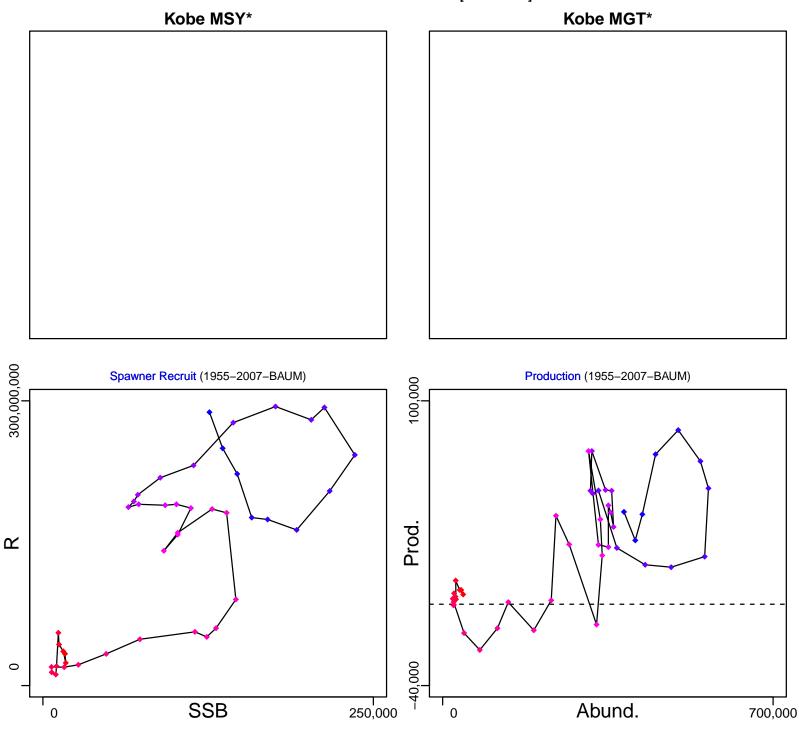


## American Plaice NAFO-3LNO [AMPL3LNO]

Metadata		
Scientific Name	Hippoglossoides platessoides	
Current Assess ID	NAFO-SC-AMPL3LNO-1955-2007-BAUM	
Area Grand Banks		
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2007	

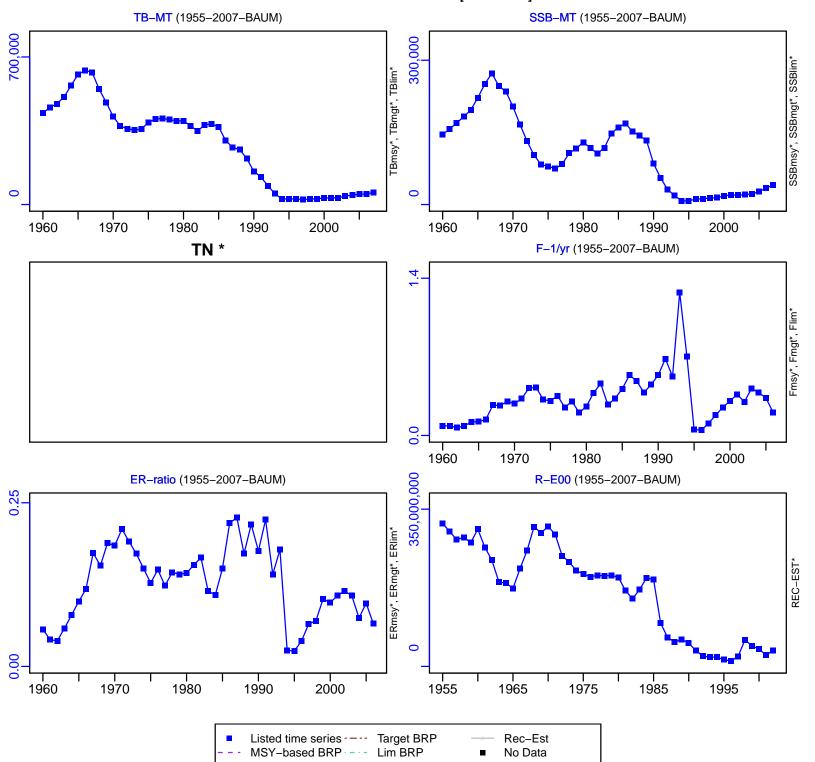
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2007	0.2	
TBlim	TBlim-MT	2007	50,000	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	50,500	-	5+
SSB	SSB-MT	2007	35,500	Both	-
TN	-	-	-	-	-
R	R-E00	2007	33,500,000	-	5
F	F-1/yr	2007	0.19	Both	9 to 14
ER	ER-ratio	2007	0.06	-	-
TC	-	-	-		•
TL	TL-MT	2007	2830		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

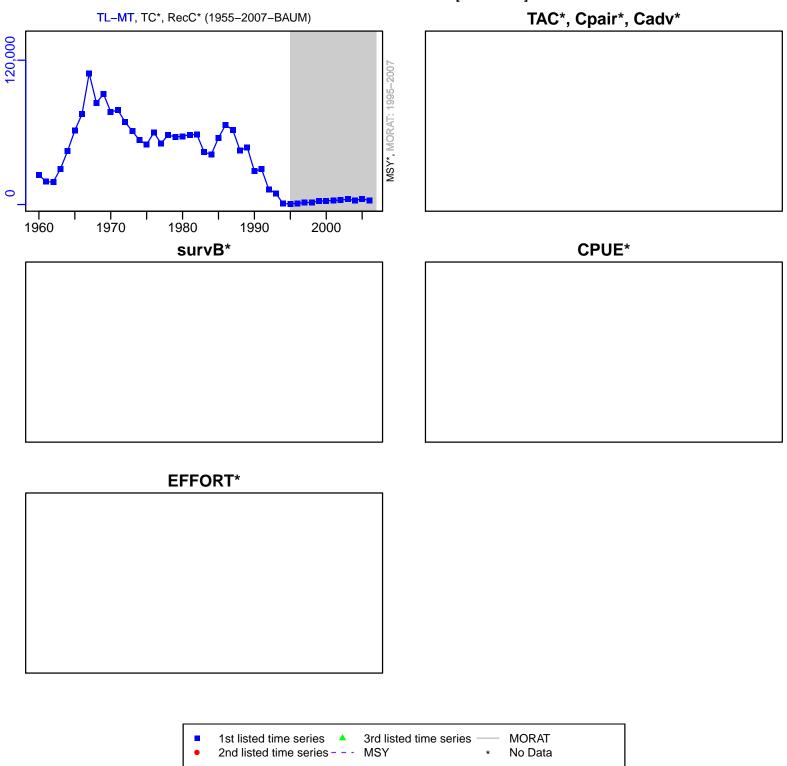


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#### American Plaice NAFO-3LNO [AMPL3LNO]



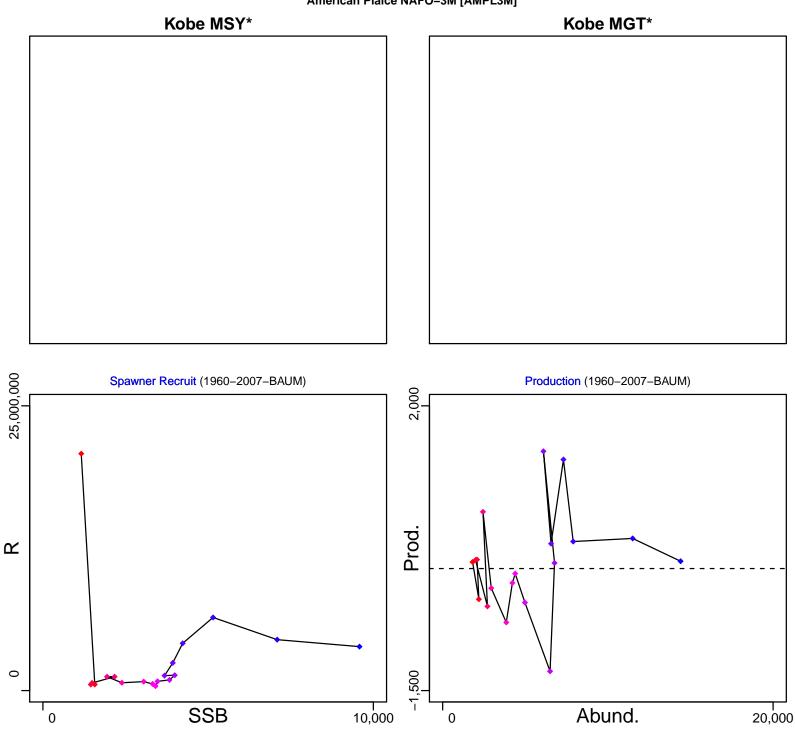
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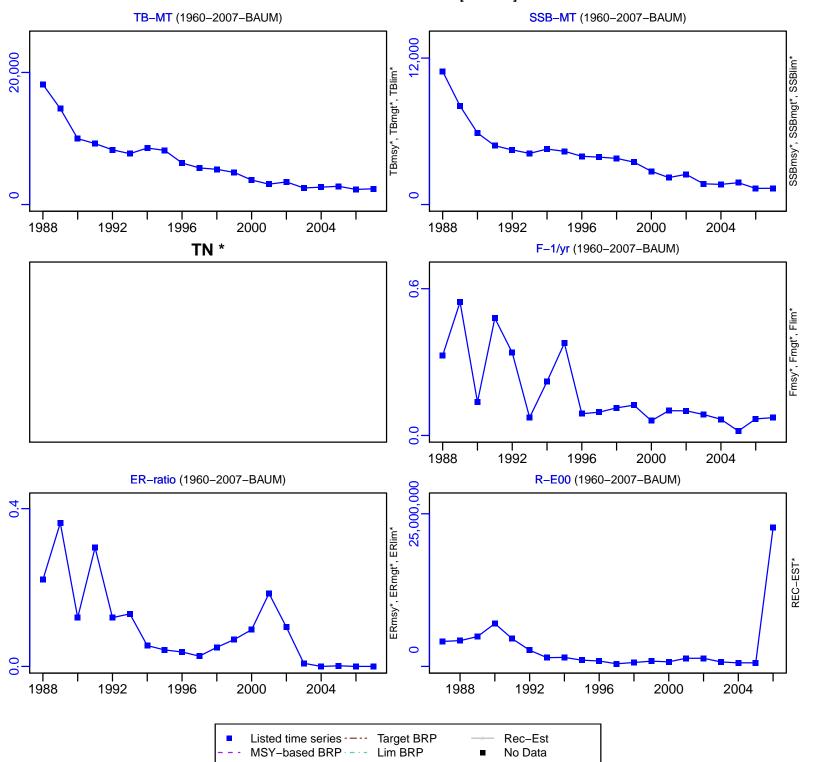
Metadata		
Scientific Name	Hippoglossoides platessoides	
Current Assess ID	NAFO-SC-AMPL3M-1960-2007-BAUM	
Area	Flemish Cap	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2007	

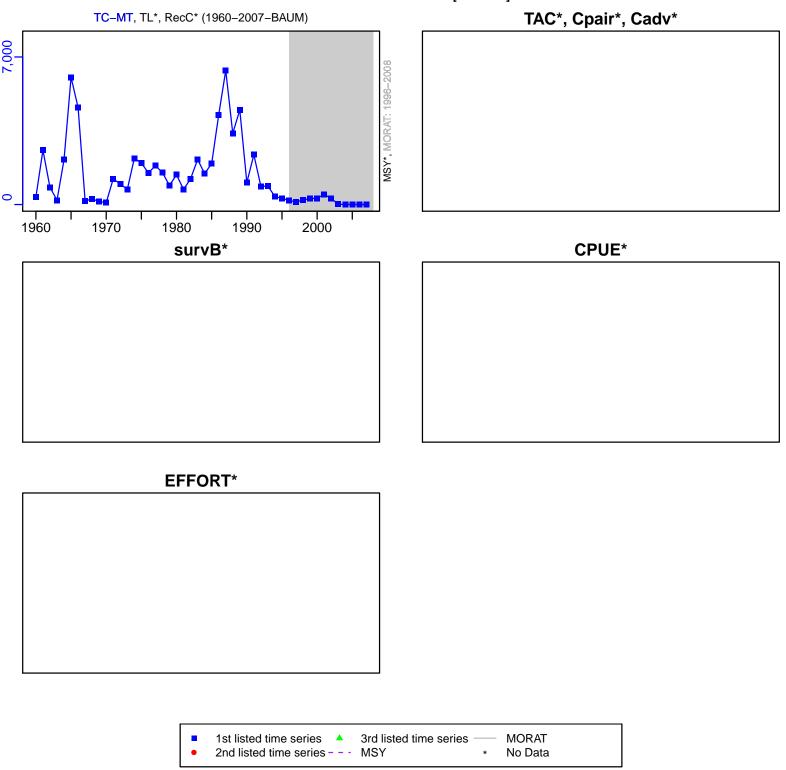
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2007	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	1890	-	-
SSB	SSB-MT	2007	1170	Females	5+
TN	-	-	-	-	-
R	R-E00	2007	20,800,000	-	1
F	F-1/yr	2007	0.06	-	3 to 13
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	0		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data





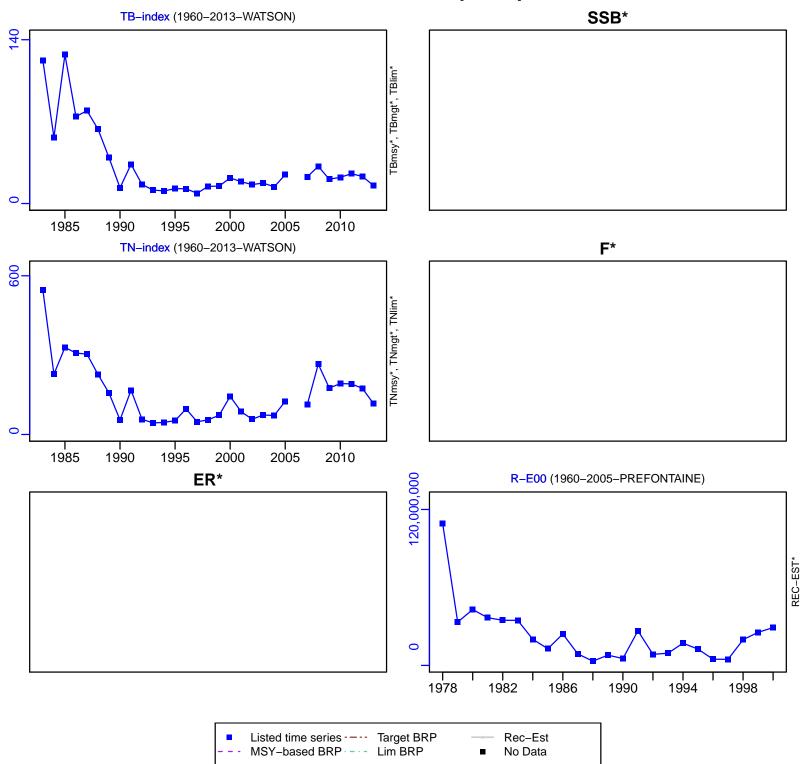
Metadata		
Scientific Name	Hippoglossoides platessoides	
Current Assess ID	DFO-AMPL3Ps-1960-2013-WATSON	
Area	St. Pierre Bank	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2013, 2005	

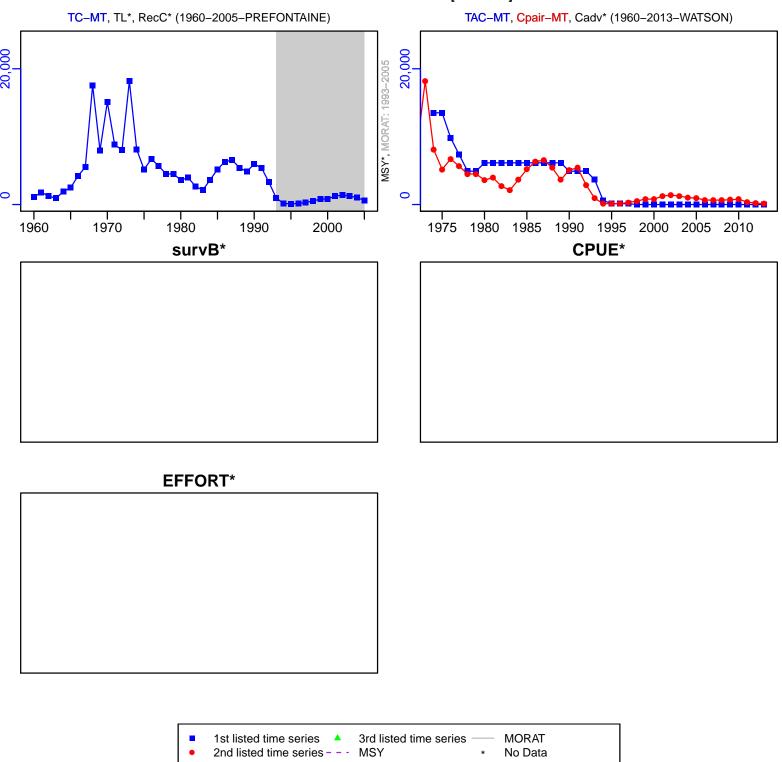
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-index	2013	15	Both	-
SSB	-	-	-	-	-
TN	TN-index	2013	112	-	-
R	R-E00	2005	27,200,000	-	5
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2005	503		
TL	TL-MT	2013	103		
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



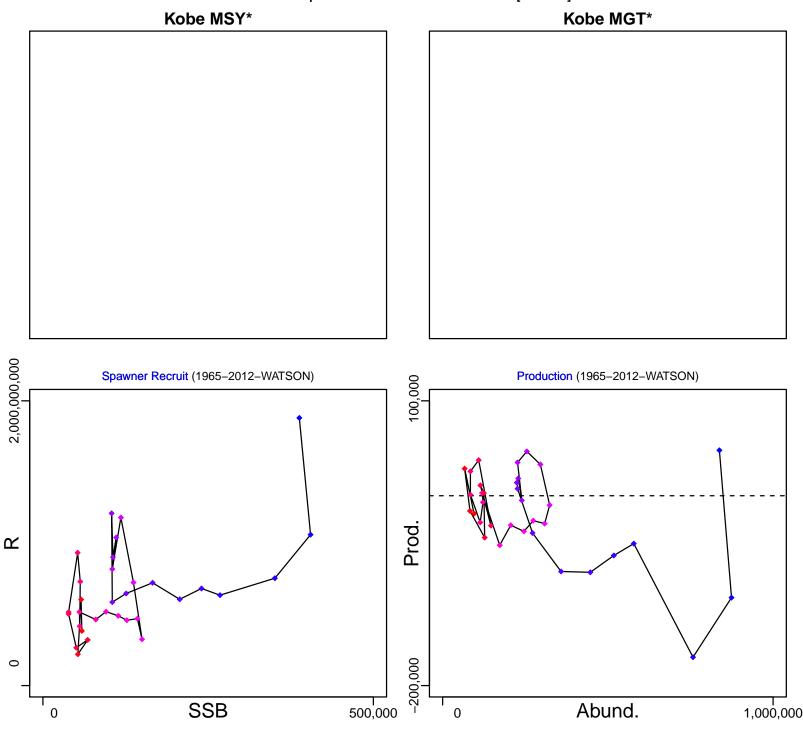


## American plaice Southern Gulf of St. Lawrence [AMPL4T]

Metadata			
Scientific Name	Hippoglossoides platessoides		
Current Assess ID	DFO-AMPL4T-1965-2012-WATSON		
Area	Southern Gulf of St. Lawrence		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

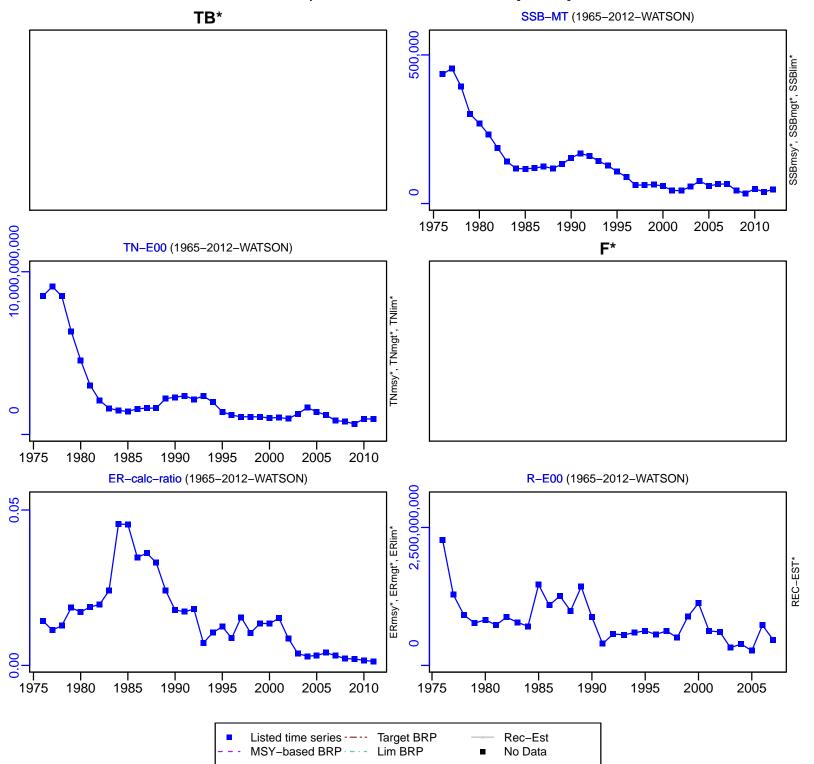
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2012	64,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	41,700	-	-
TN	TN-E00	2012	$9.26 \times 10^{8}$	-	4 to 9
R	R-E00	2012	$3.84 \times 10^{8}$	-	4
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0	-	-
TC	TC-MT	2012	90		,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

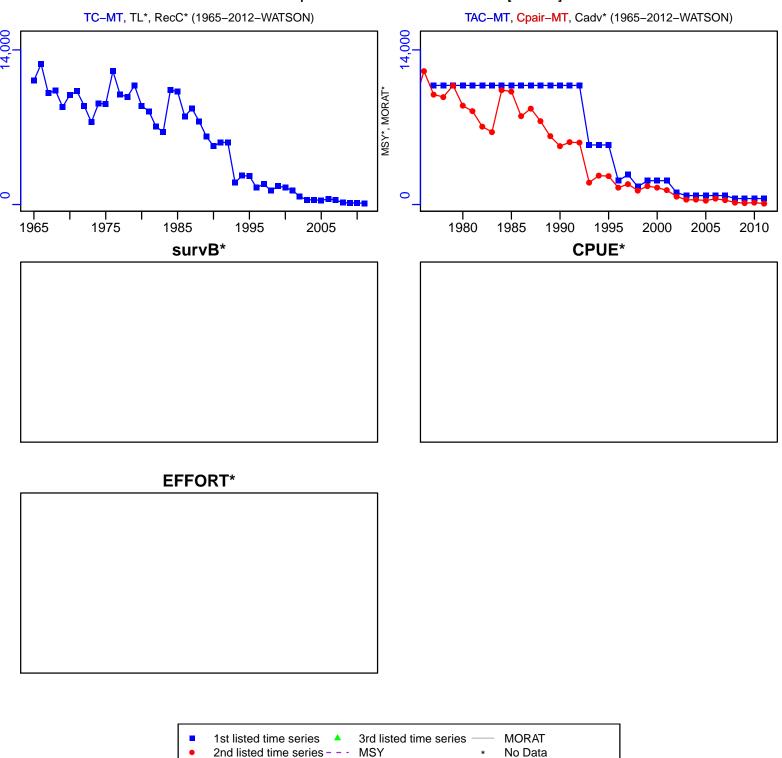


Start Year → End Year → No Data

#### American plaice Southern Gulf of St. Lawrence [AMPL4T]



#### American plaice Southern Gulf of St. Lawrence [AMPL4T]

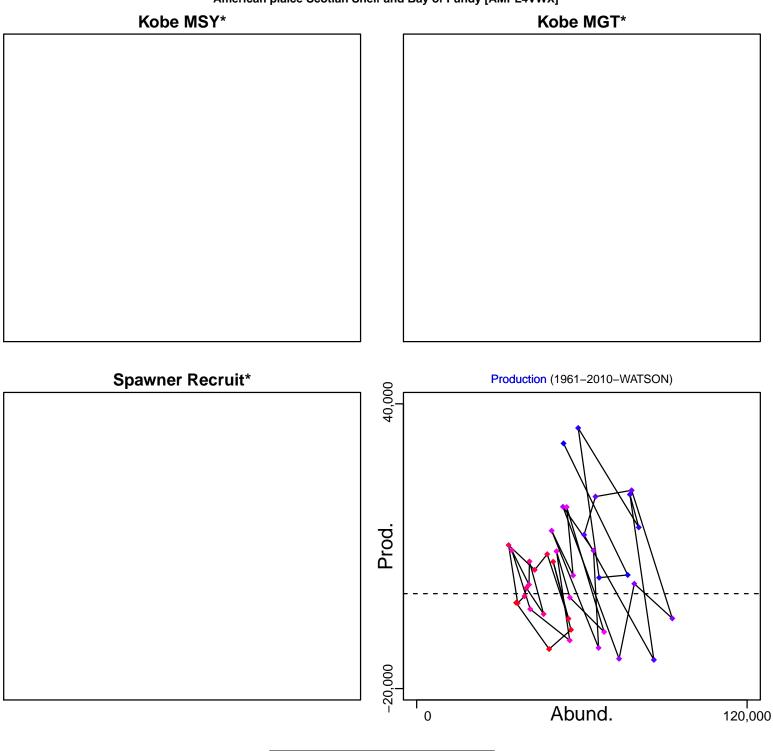


## American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]

Metadata			
Scientific Name	Hippoglossoides platessoides		
Current Assess ID	DFO-AMPL4VWX-1961-2010-WATSON		
Area	Scotian Shelf and Bay of Fundy		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2010		

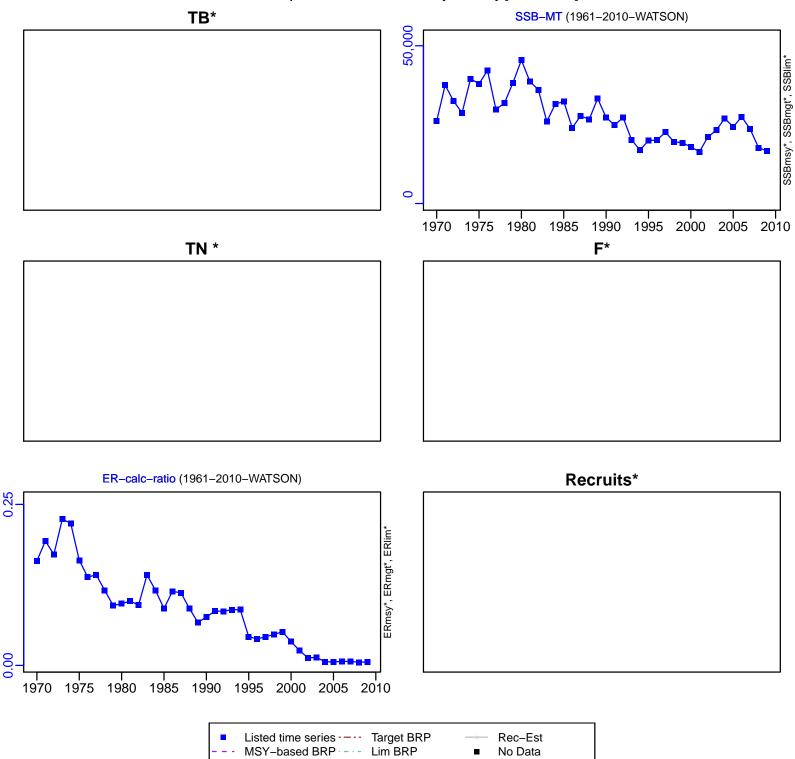
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	5113	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2010	15,800	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.01	-	-
TC	-	-	-		
TL	TL-MT	2010	250		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-	]	



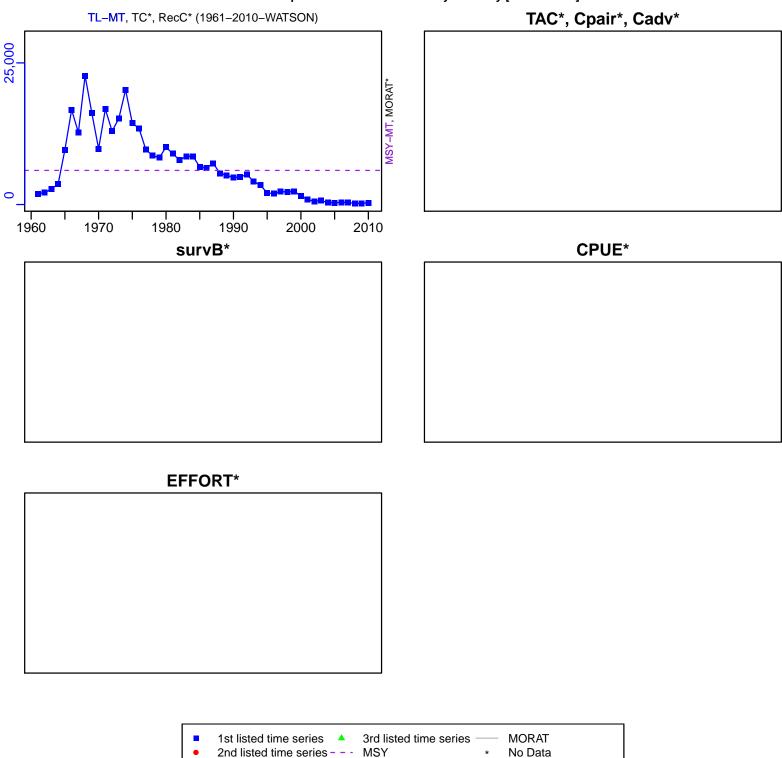
Start Year → End Year → No Data

### American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]



No Data

#### American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]



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

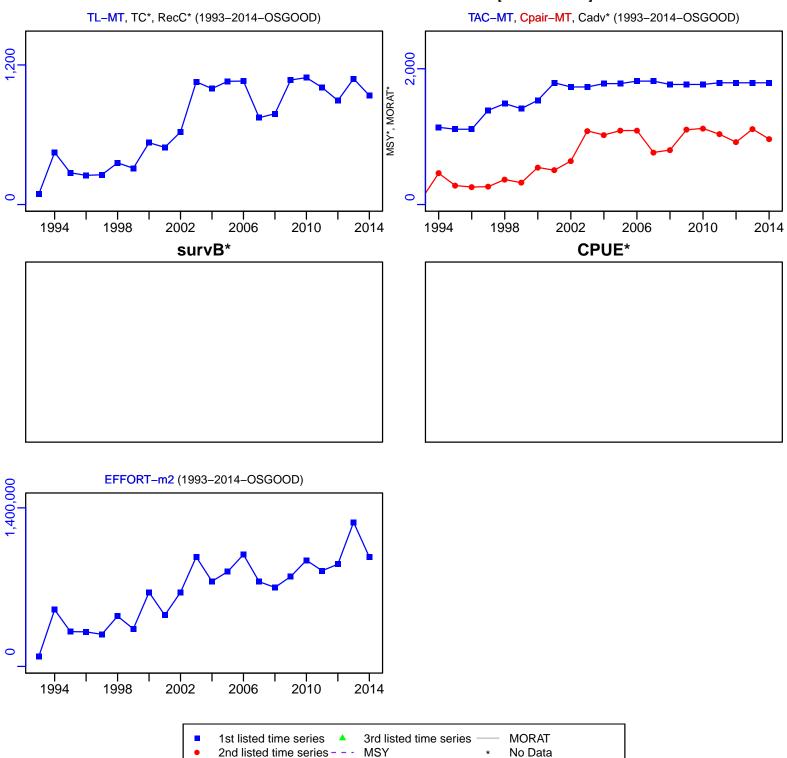
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*
Spawner Recruit	Froduction

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	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 managem			
Assessor Department of Fisheries and Oceans - Maritimes Region			
Asmts in RAM	2010		

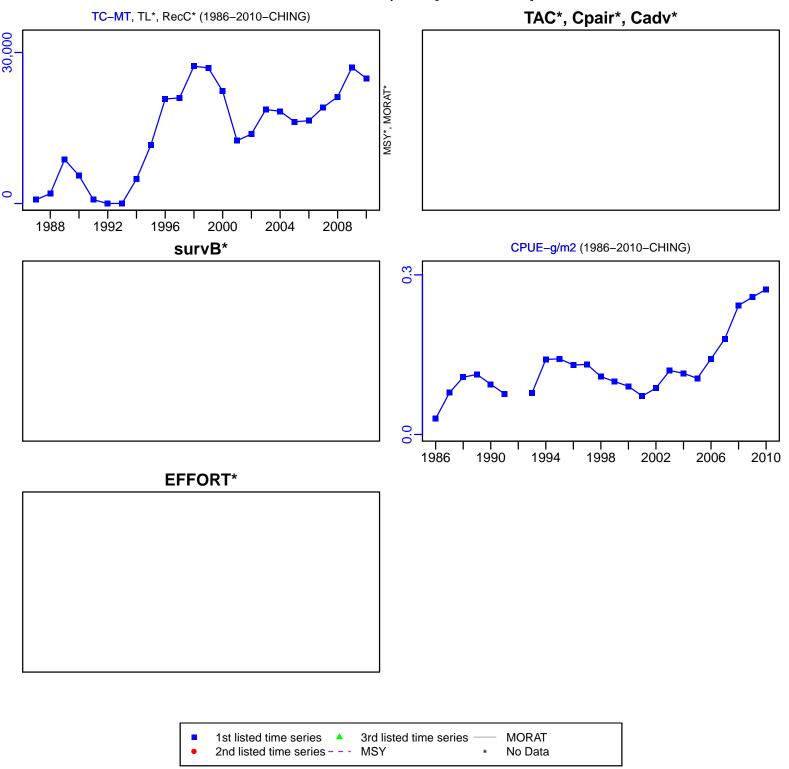
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	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*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im 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 manage			
Assessor Department of Fisheries and Oceans			
Asmts in RAM	2010		

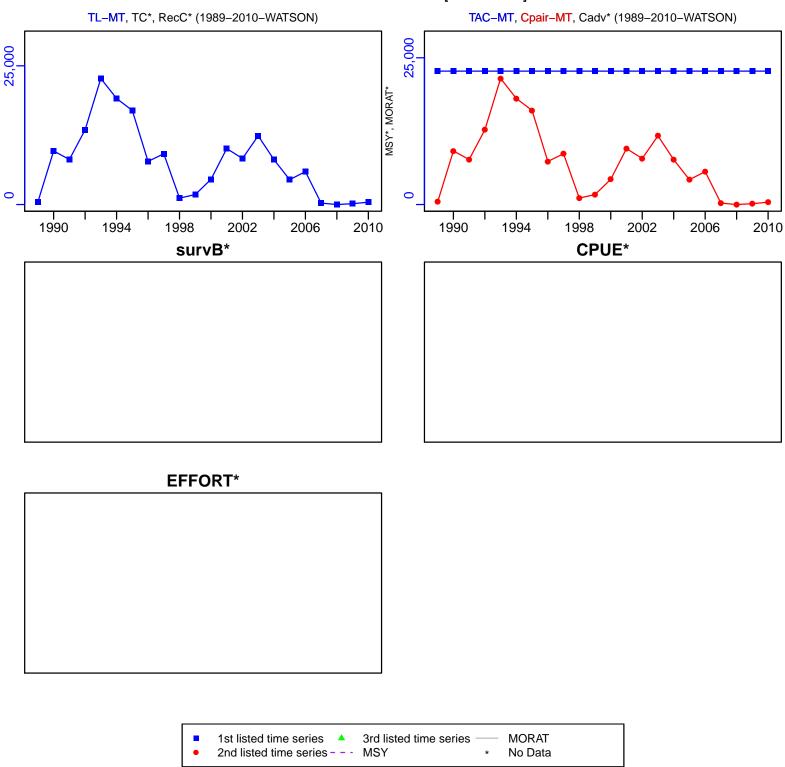
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2010	0.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	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*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data



Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-QUE-ARCSURFQCW-1993-2011-CHING	
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	

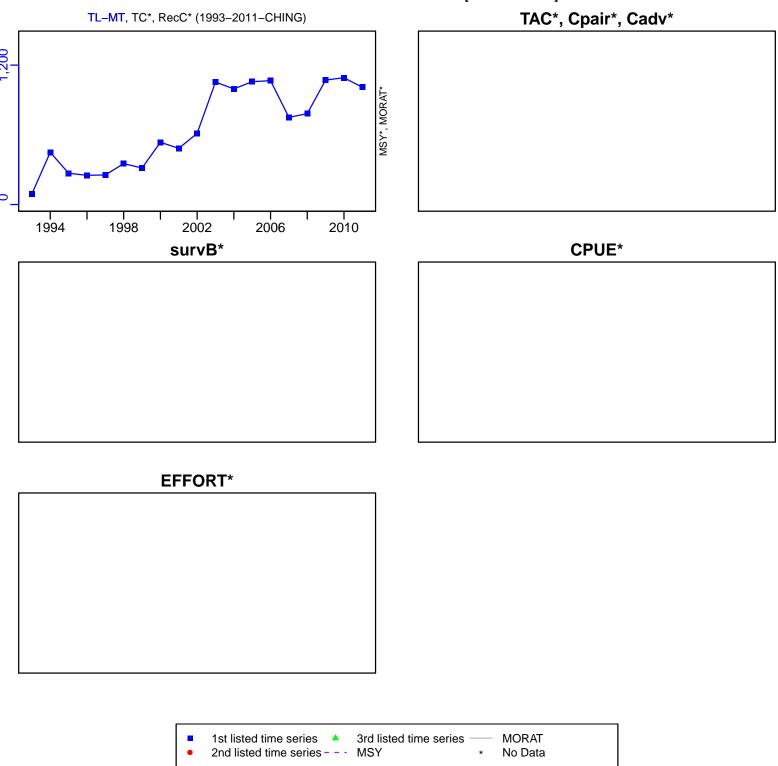
F	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	844		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

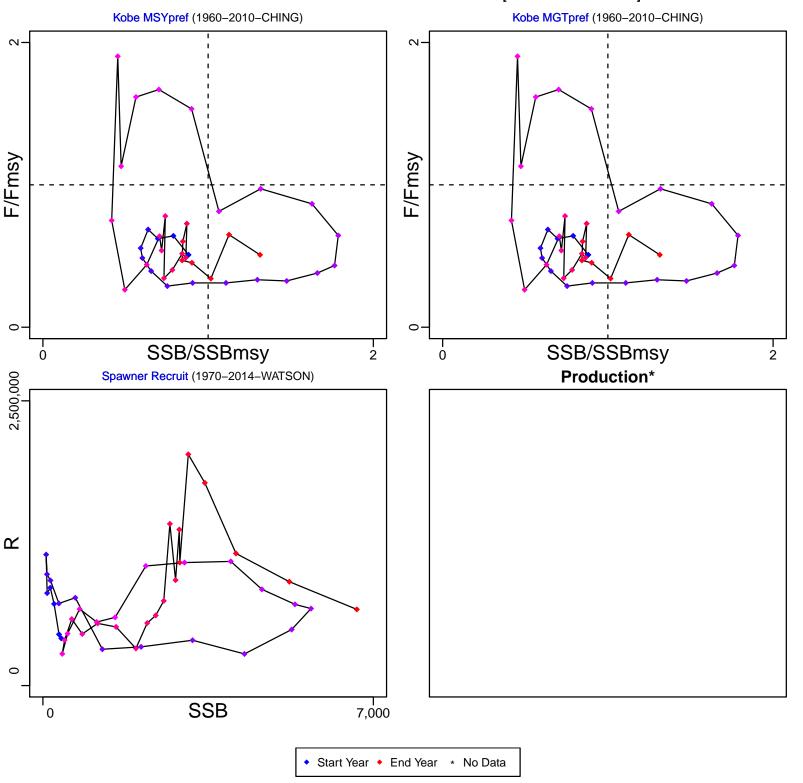
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m BRP ■ No Data

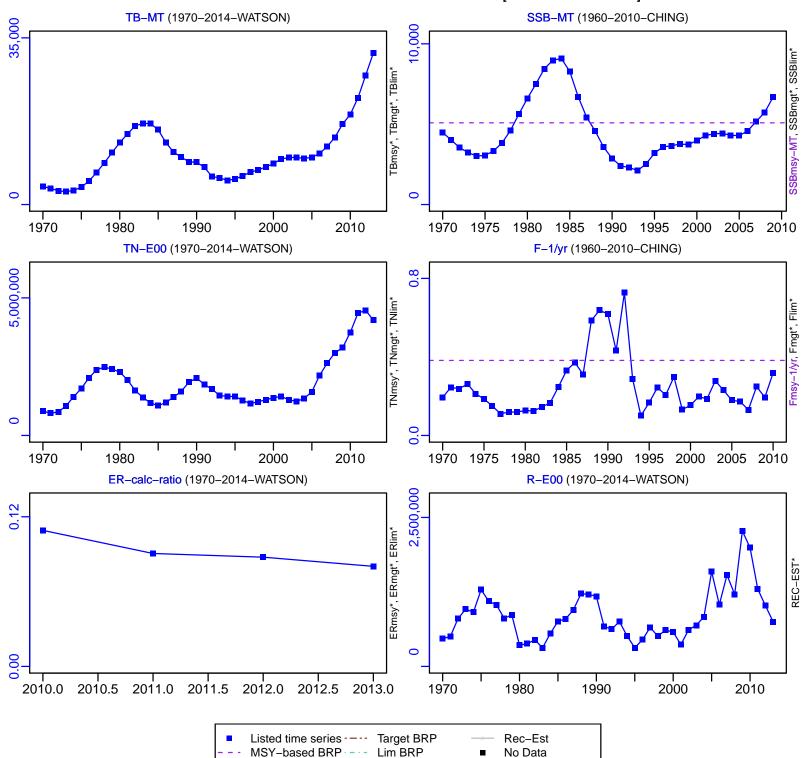


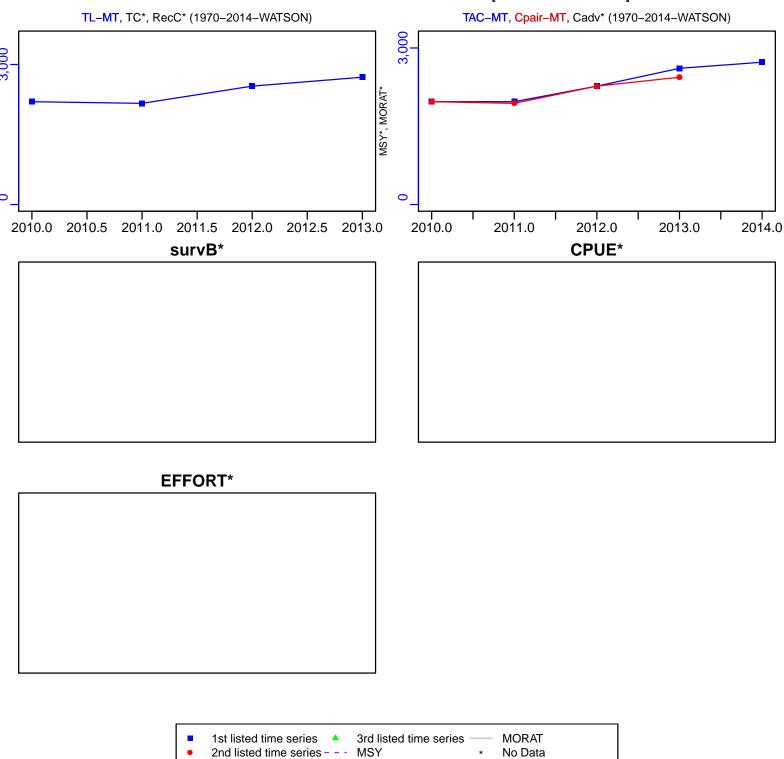
Metadata		
Scientific Name	Hippoglossus hippoglossus	
Current Assess ID	DFO-ATHAL3NOPs4VWX5Zc-1970-2014-WATSON	
Area	Scotian Shelf and Southern Grand Banks	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014, 2010	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2010	4900	
Fmsy	Fmsy-1/yr	2010	0.36	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	31,800	-	-
SSB	SSB-MT	2014	6650	-	-
TN	TN-E00	2014	3,460,000	Both	-
R	R-E00	2014	669,000	-	-
F	F-1/yr	2010	0.3	-	-
ER	ER-calc-ratio	2014	0.07	-	-
TC	-	-	-		
TL	TL-MT	2014	2290		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	1.31		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.83		
ER/ERmsy	-	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata		
Scientific Name	Dipturus laevis	
Current Assess ID	DFO-MAR-BSKATCANATL-1970-1987-PREFONTAINE	
Area	Canadian Atlantic Ocean	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	1987	

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	-	-	-		
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*
Г	1
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

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

Metadata		
Scientific Name	Mallotus villosus	
Current Assess ID	DFO-CAPE4RST-1960-2012-WATSON	
Area	Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2012, 2010	

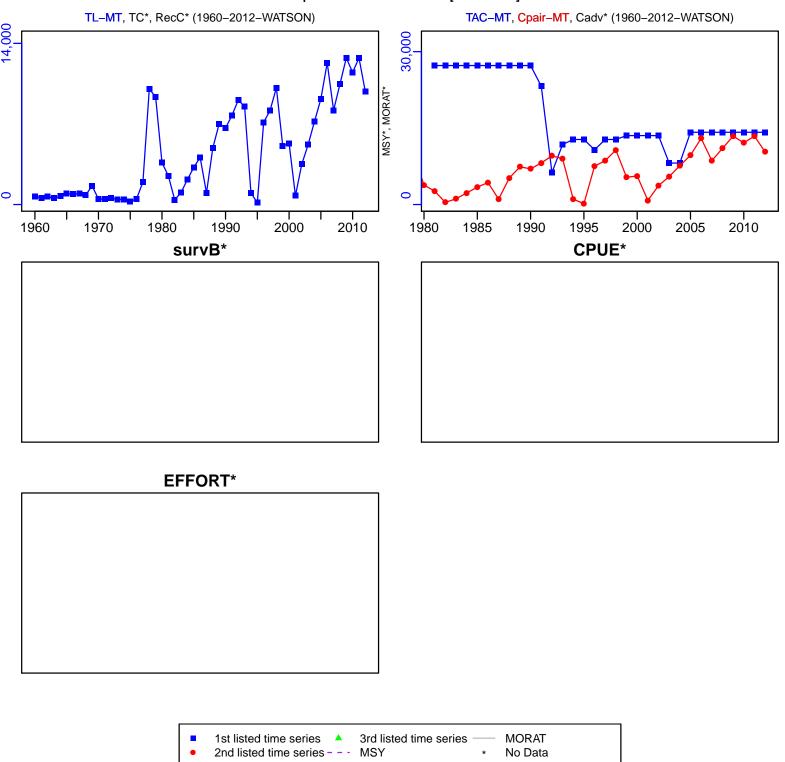
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim		-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	9470		
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

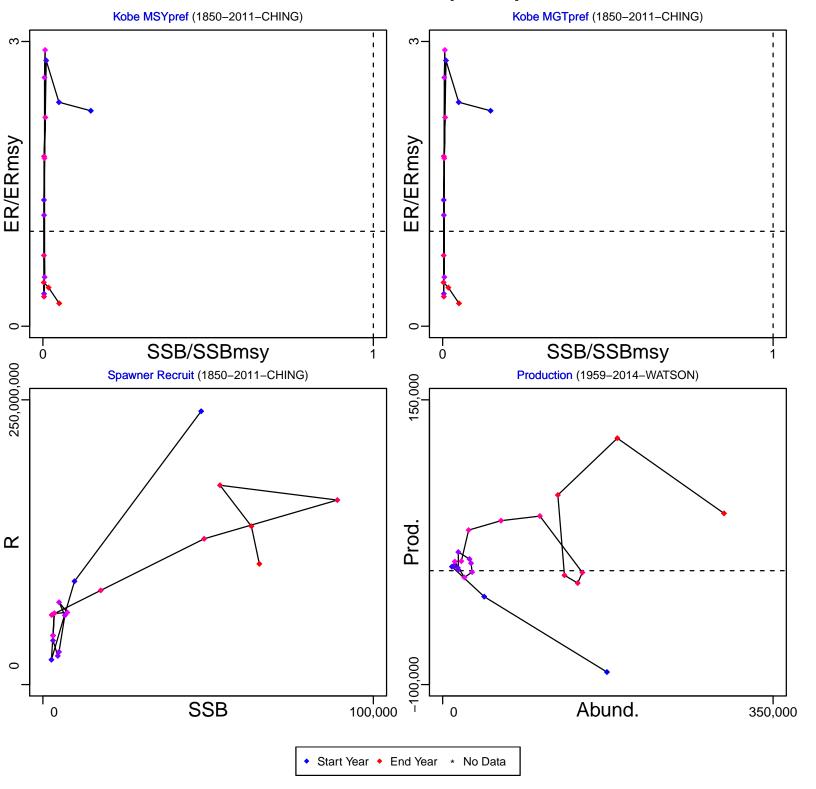
TB*	SSB*
TN *	F*
ED*	De evvite*
ER*	Recruits*
	I L
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP ■ No Data

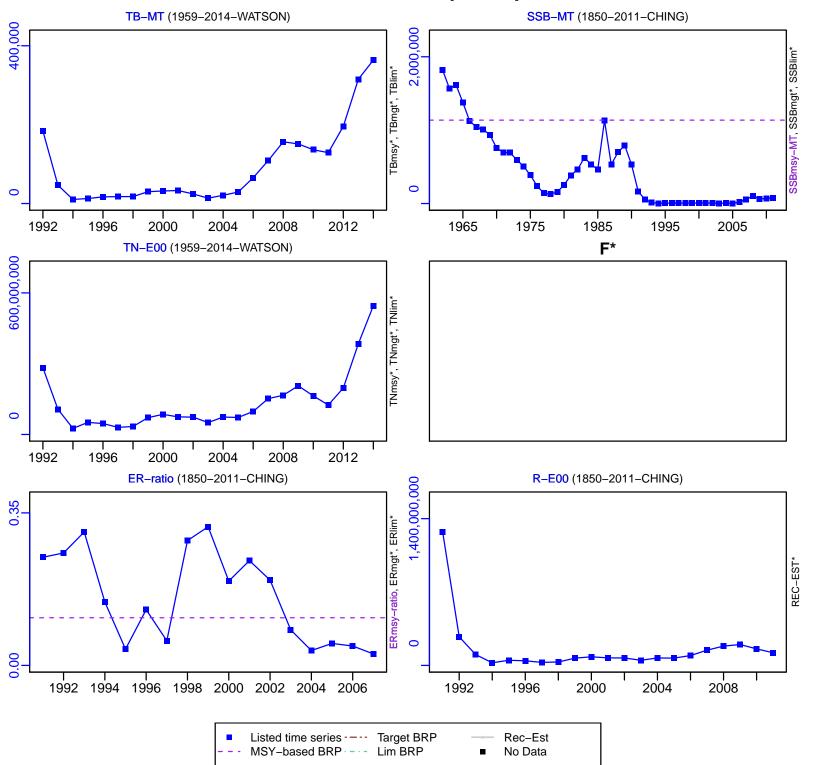


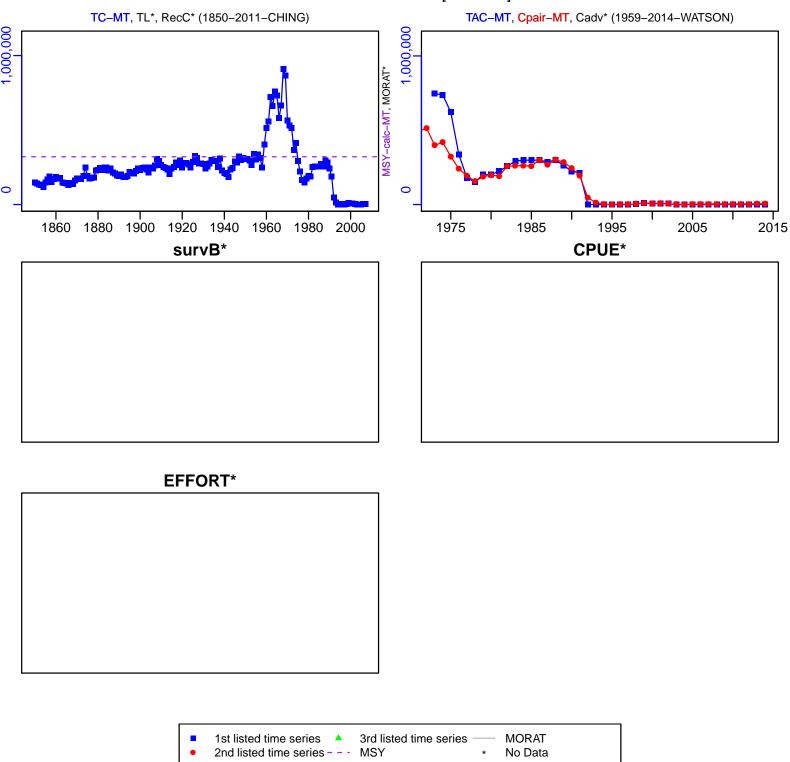
Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-COD2J3KL-1959-2014-WATSON	
Area	Southern Labrador-Eastern Newfoundland	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014, 2011	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2011	$1 \times 10^6$	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2011	0.1	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-calc-MT	2011	286,332	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2014	344,000	-	-	
SSB	SSB-MT	2014	188,000	-	-	
TN	TN-E00	2014	$4.63 \times 10^{8}$	-	-	
R	R-E00	2011	$1.06 \times 10^{8}$	-	-	
F	-	-	-	-	-	
ER	ER-calc-ratio	2014	0.01	-	-	
TC	TC-MT	2011	2480			
TL	TL-MT	2014	4580			
TB/TBmsy	-	-	-	]		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.07			
F/Fmsy	-	-	-			
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.24			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-	]		
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			





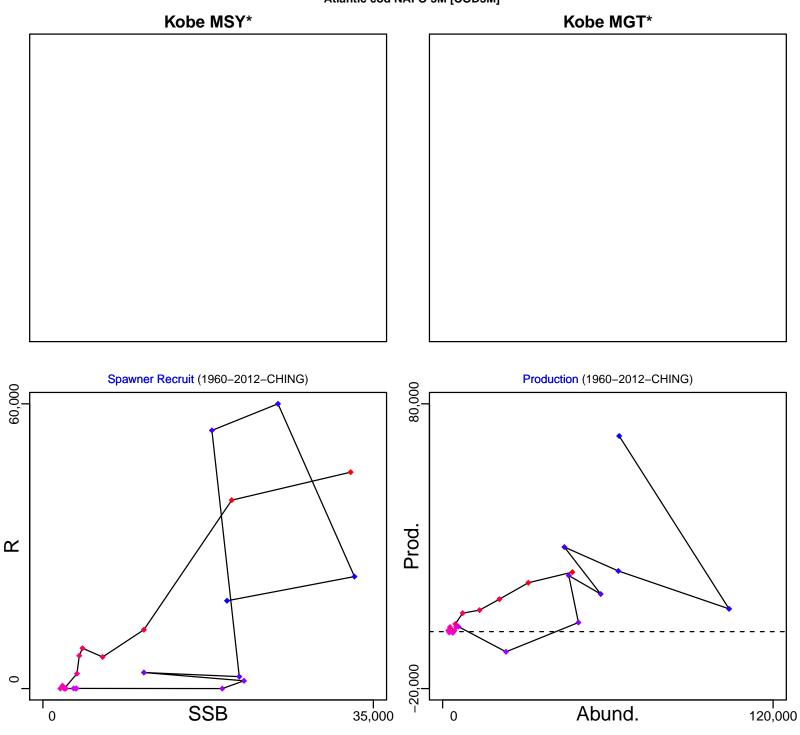


## Atlantic cod NAFO 3M [COD3M]

Metadata				
Scientific Name Gadus morhua				
Current Assess ID	NAFO-SC-COD3M-1960-2012-CHING			
Area	Flemish Cap			
Management Authority	Northwest Atlantic Fisheries Organization			
Assessor	NAFO Scientific Council			
Asmts in RAM	2012			

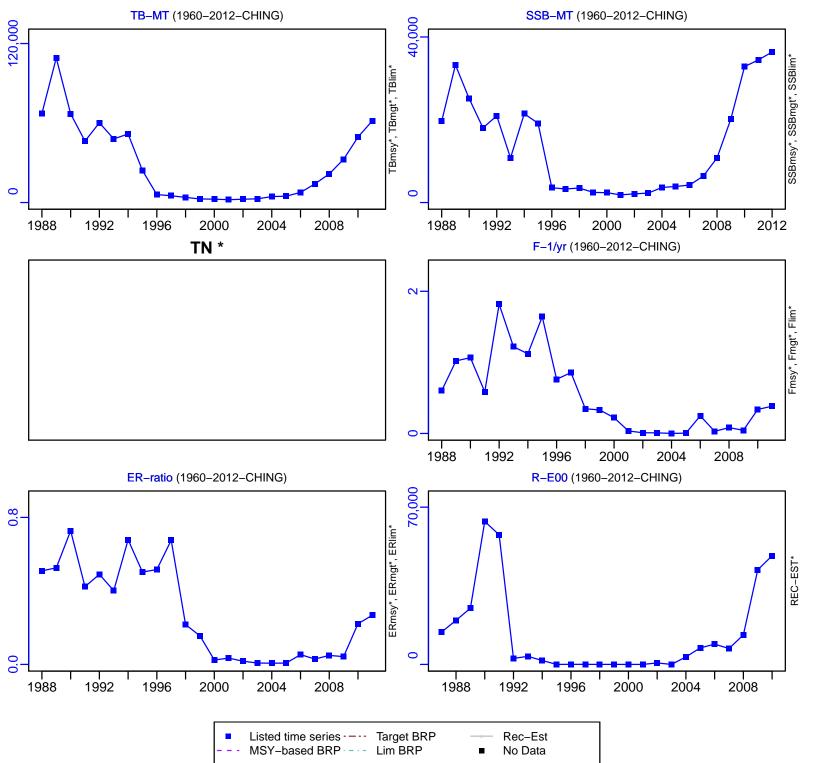
Reference Points					
Туре	ID	Asmt Year Valu			
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series							
Туре	ID	Asmt Year	Curr Value	Sex	Age		
ТВ	TB-MT	2012	58,800	-	-		
SSB	SSB-MT	2012	36,100	-	-		
TN	-	-	-	-	-		
R	R-E00	2012	45,600	-	-		
F	F-1/yr	2012	0.33	-	-		
ER	ER-ratio	2012	0.24	-	-		
TC	TC-MT	2012	13,900				
TL	-	-	-				
TB/TBmsy	-	-	-				
SSB/SSBmsy	-	-	-				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

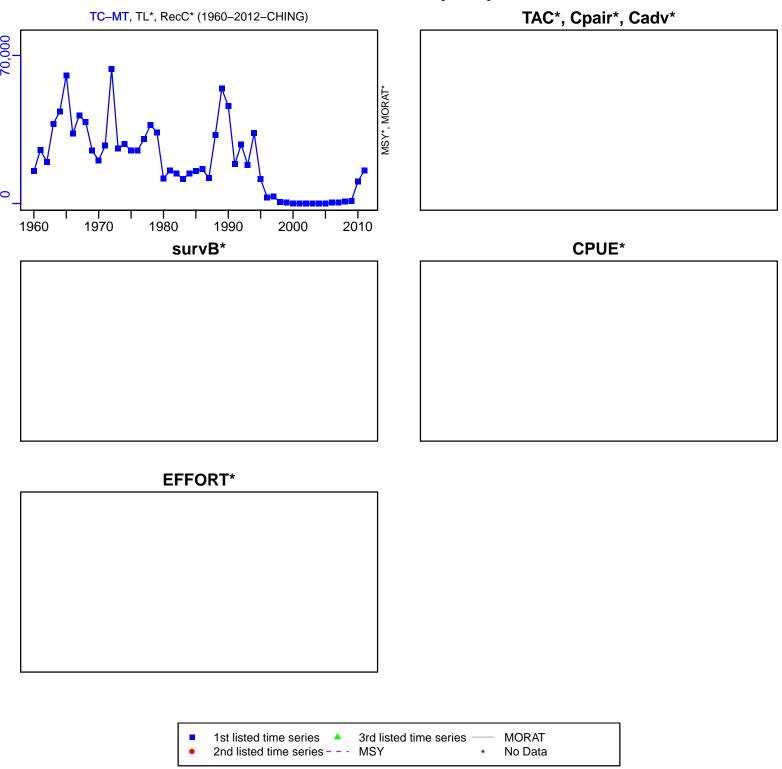


Start Year → End Year → No Data

#### Atlantic cod NAFO 3M [COD3M]



### Atlantic cod NAFO 3M [COD3M]

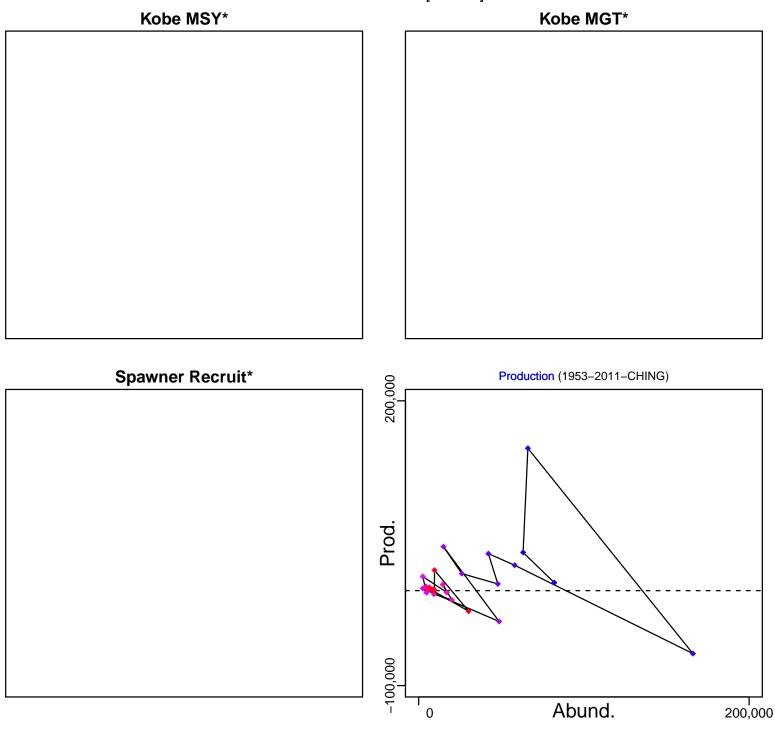


# Atlantic cod NAFO 3NO [COD3NO]

Metadata			
Scientific Name Gadus morhua			
Current Assess ID NAFO-SC-COD3NO-1953-2011-CHING			
Area Southern Grand Banks			
Management Authority Northwest Atlantic Fisheries Organization			
Assessor NAFO Scientific Council			
Asmts in RAM	2011		

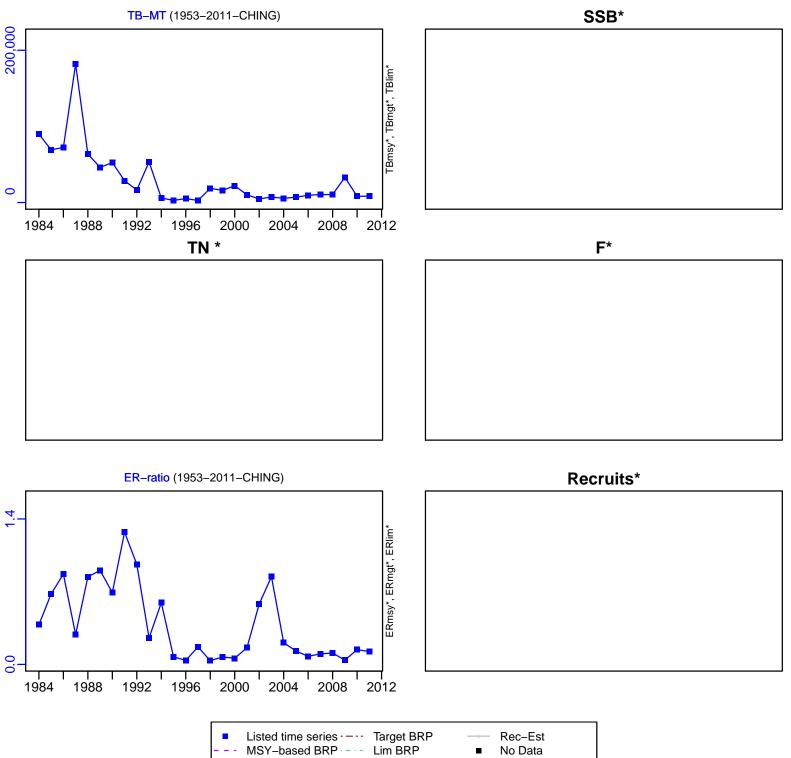
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	7570	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.11	-	-
TC	TC-MT	2011	819		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



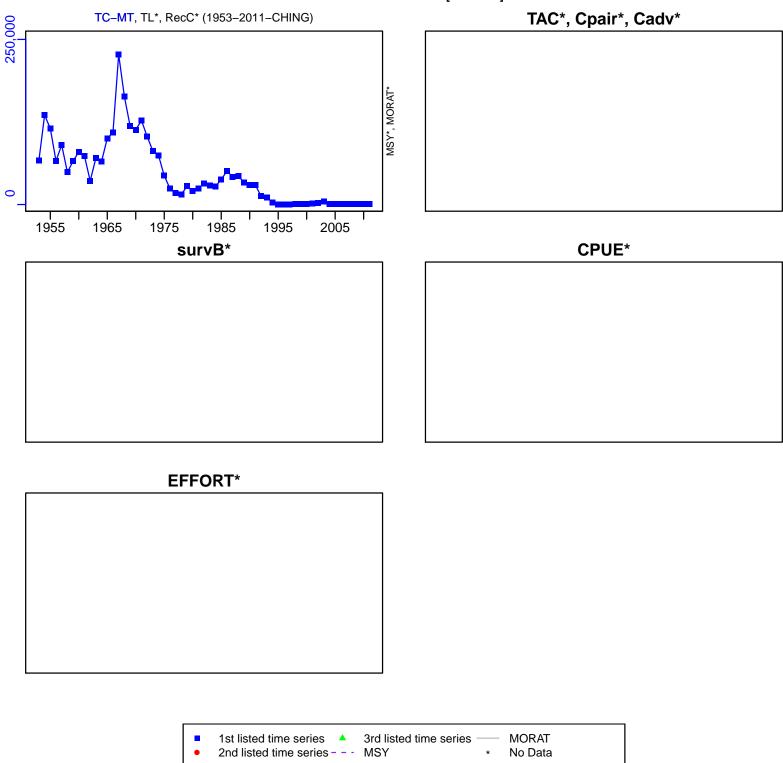
Start Year → End Year → No Data

### Atlantic cod NAFO 3NO [COD3NO]



No Data

### Atlantic cod NAFO 3NO [COD3NO]

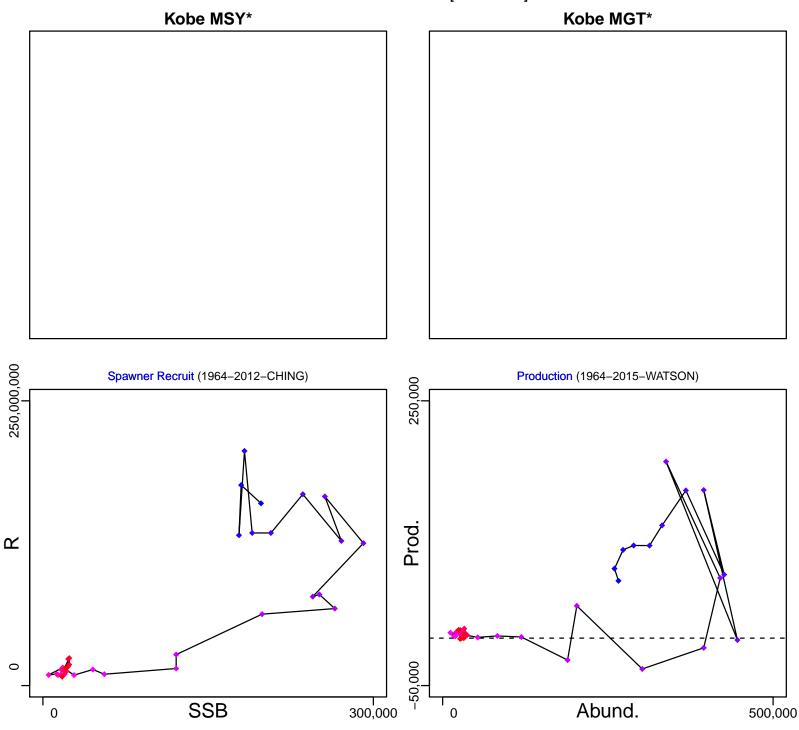


# Atlantic cod NAFO 3Pn4RS [COD3Pn4RS]

Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-COD3Pn4RS-1964-2015-WATSON	
Area Northern Gulf of St. Lawrence		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2015, 2012	

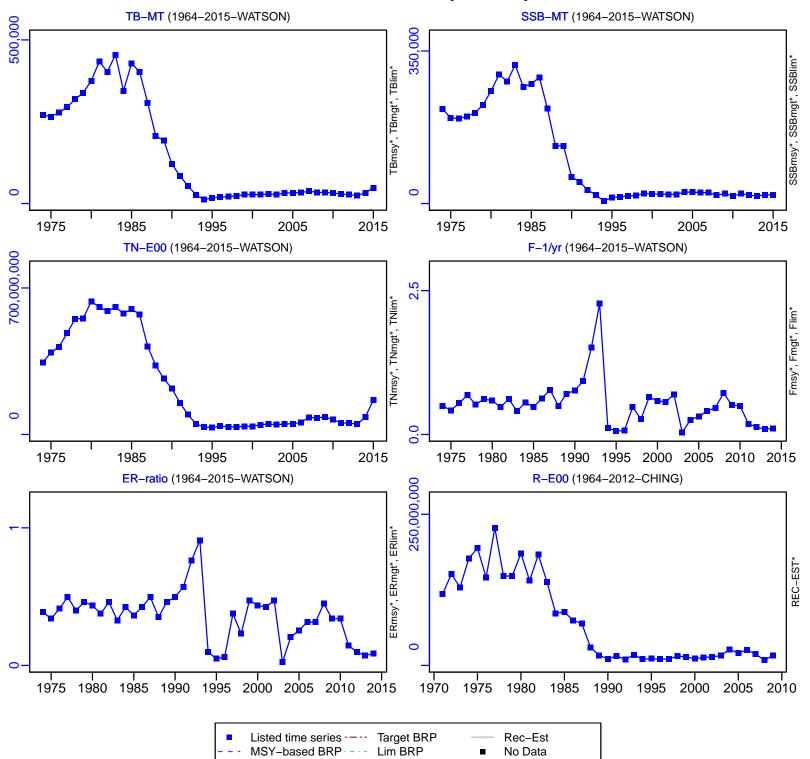
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	47,100	-	3+
SSB	SSB-MT	2015	17,700	-	3+
TN	TN-E00	2015	$1.44 \times 10^{8}$	-	3+
R	R-E00	2012	$1.5 \times 10^7$	-	-
F	F-1/yr	2015	0.09	-	7 to 9
ER	ER-ratio	2015	0.07	-	-
TC	-	-	-		
TL	TL-MT	2015	1240		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

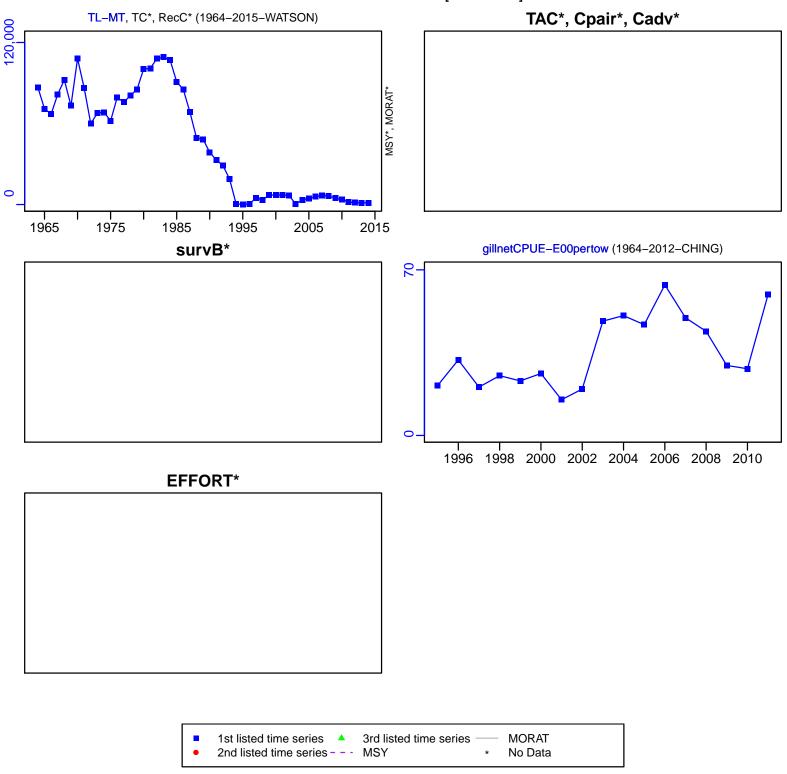


Start Year → End Year → No Data

#### Atlantic cod NAFO 3Pn4RS [COD3Pn4RS]



### Atlantic cod NAFO 3Pn4RS [COD3Pn4RS]



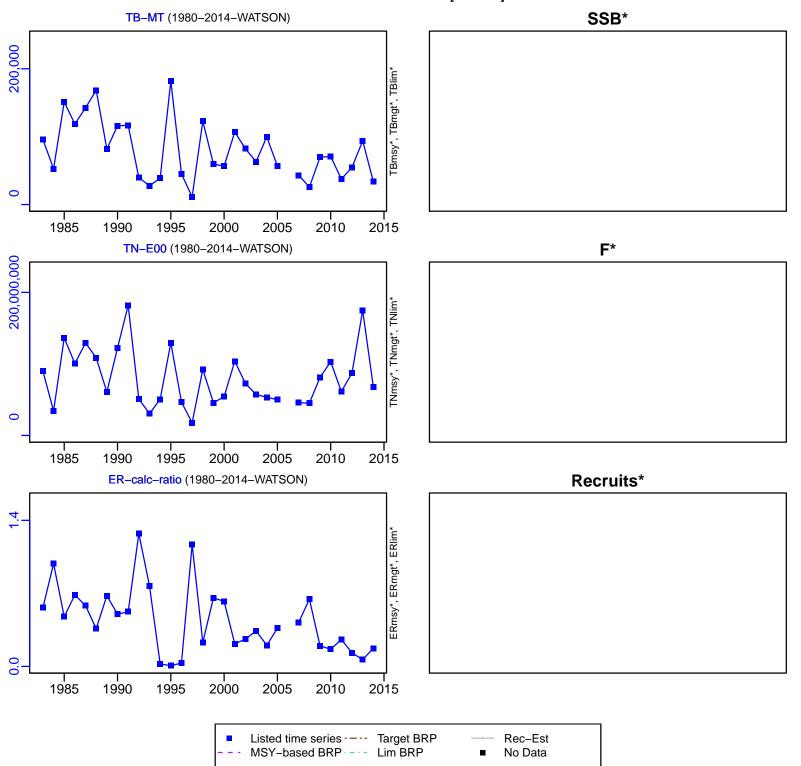
Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-COD3Ps-1980-2014-WATSON	
Area St. Pierre Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014, 2011	

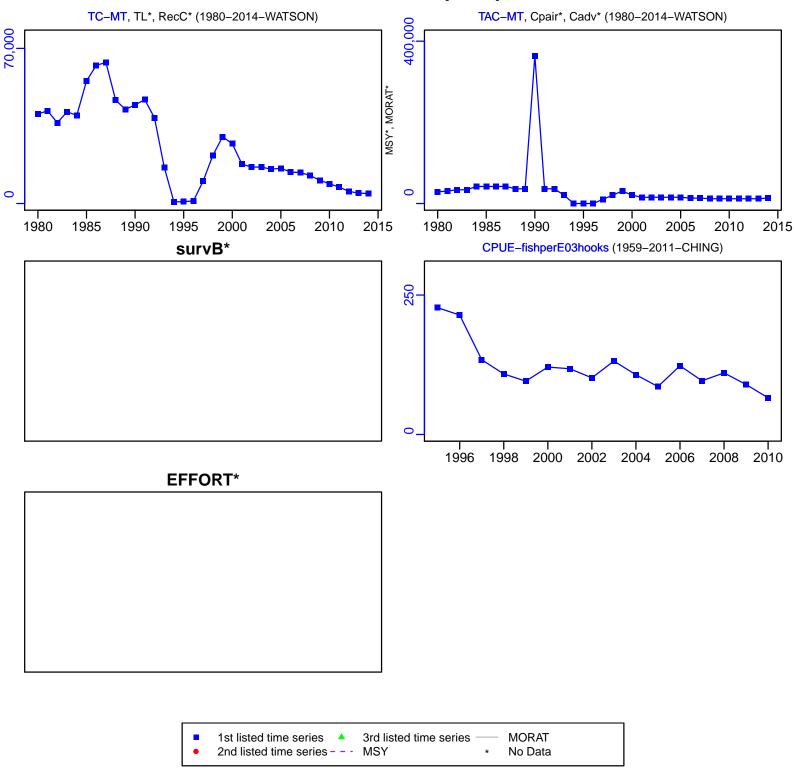
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	27,600	-	-
SSB	-	-	-	-	-
TN	TN-E00	2014	58,100,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.15	-	-
TC	TC-MT	2014	4190		
TL	TL-MT	2011	4320		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSBdivSSBmgt-dimensionless	2014	1.6		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data



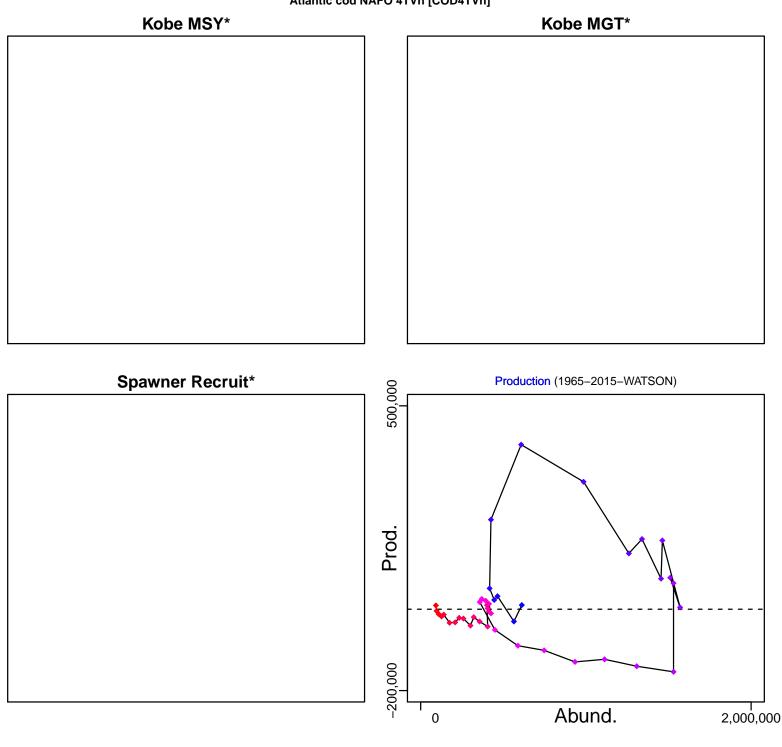


# Atlantic cod NAFO 4TVn [COD4TVn]

Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-COD4TVn-1965-2015-WATSON	
Area Southern Gulf of St. Lawrence		
Management Authority   Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2015, 2011	

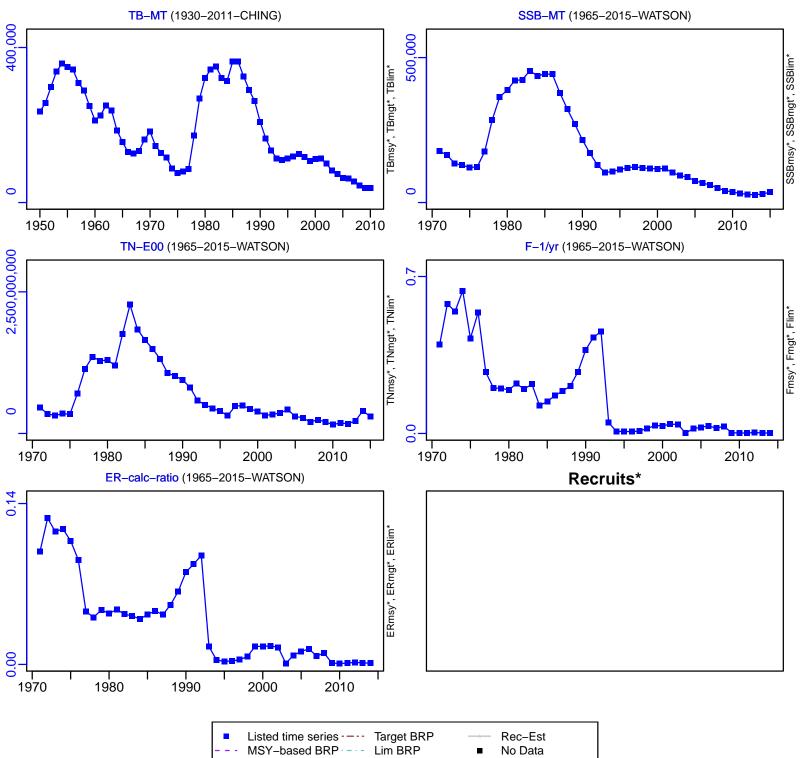
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2015	80,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	34,300	-	-
SSB	SSB-MT	2015	31,000	Both	5+
TN	TN-E00	2015	$2.53 \times 10^{8}$	Both	3+
R	-	-	-	-	-
F	F-1/yr	2015	0	Both	5 to 8
ER	ER-calc-ratio	2015	0	-	-
TC	-	-	-		
TL	TL-MT	2015	114		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

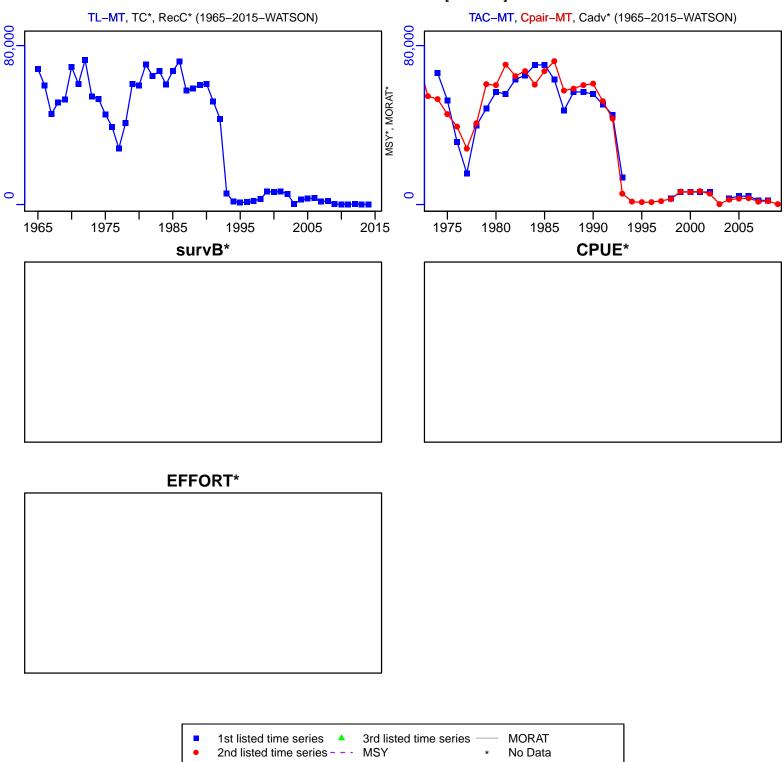


Start Year • End Year \* No Data

#### Atlantic cod NAFO 4TVn [COD4TVn]



### Atlantic cod NAFO 4TVn [COD4TVn]

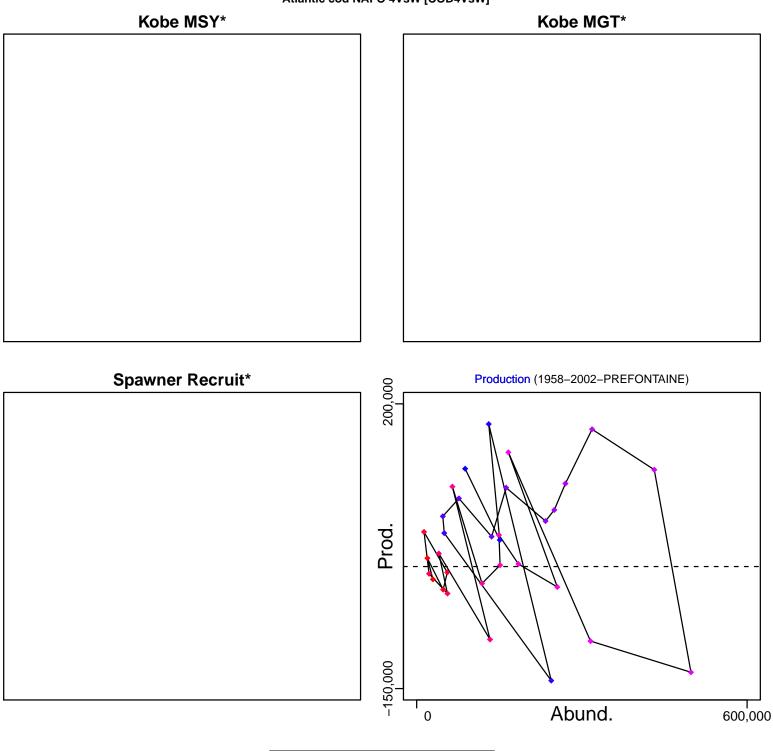


# Atlantic cod NAFO 4VsW [COD4VsW]

Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-MAR-COD4VsW-1958-2002-PREFONTAINE	
Area	Eastern Scotian Shelf	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2002	

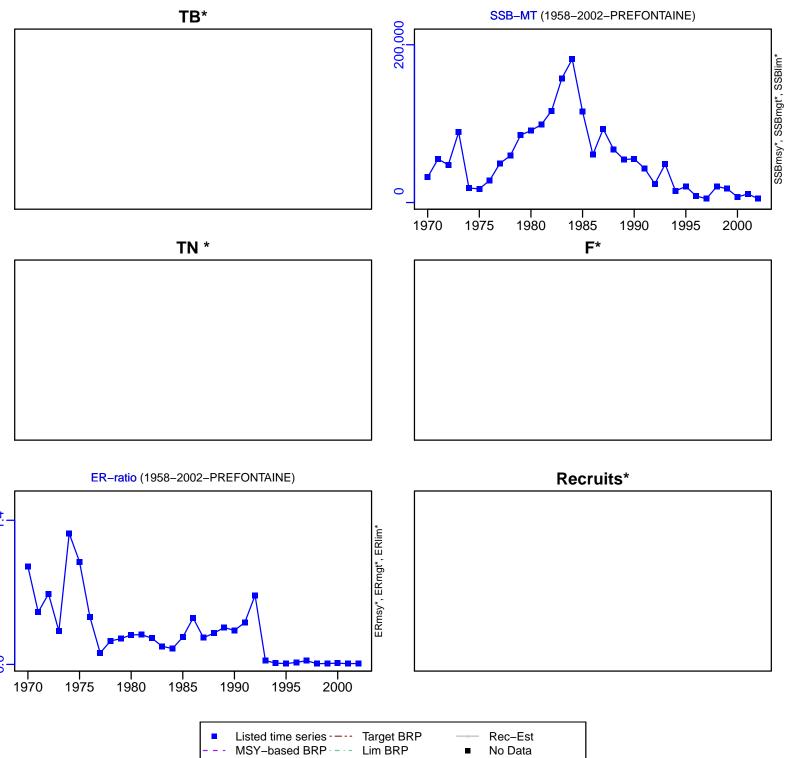
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2002	4720	-	4+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2002	0.01	-	-
TC	TC-MT	2002	83		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	1	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ı	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



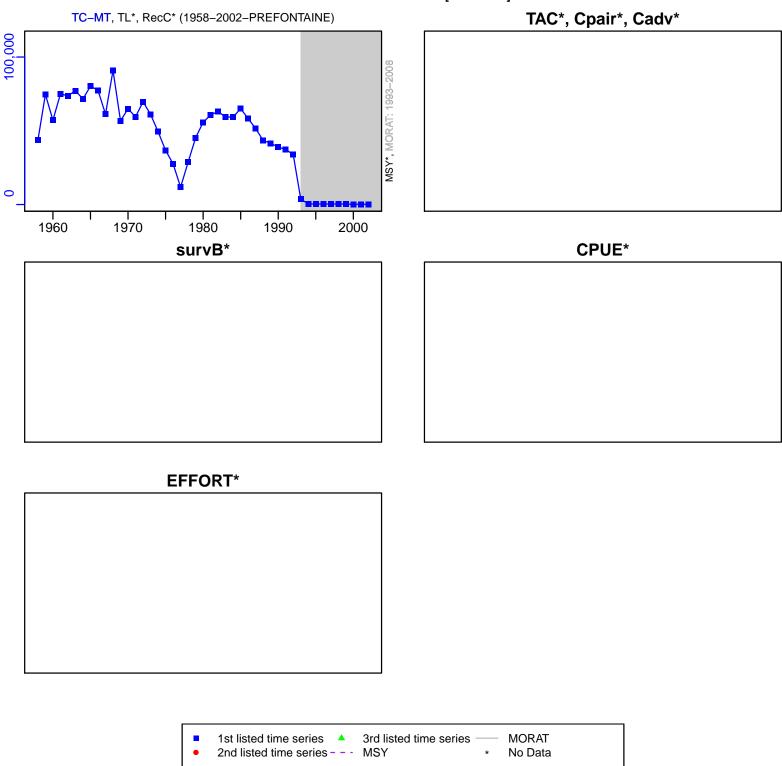
Start Year ◆ End Year \* No Data

### Atlantic cod NAFO 4VsW [COD4VsW]



No Data

### Atlantic cod NAFO 4VsW [COD4VsW]

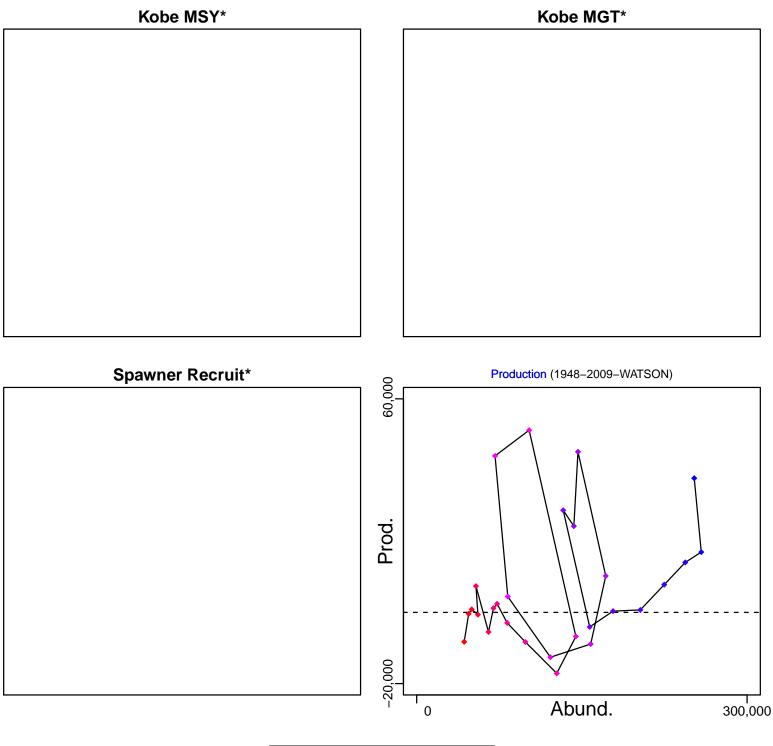


# Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]

Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-COD4X5Yb-1948-2009-WATSON	
Area	Western Scotian Shelf, Bay of Fundy and Gulf of Maine	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2009	

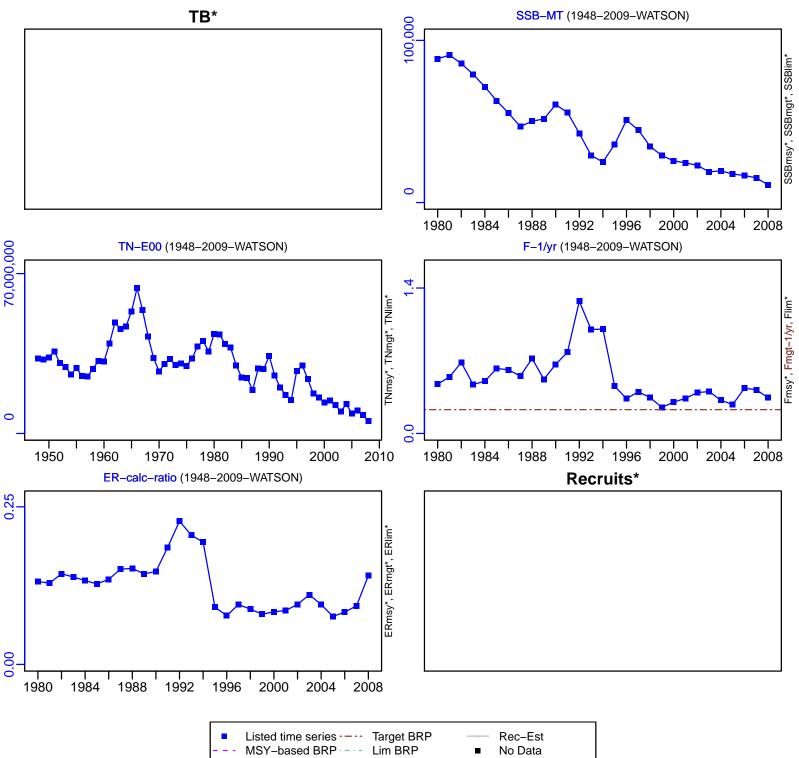
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	Fmgt-1/yr	2009	0.2
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2009	24,000
Flim	-	-	-
ERlim	-	-	-

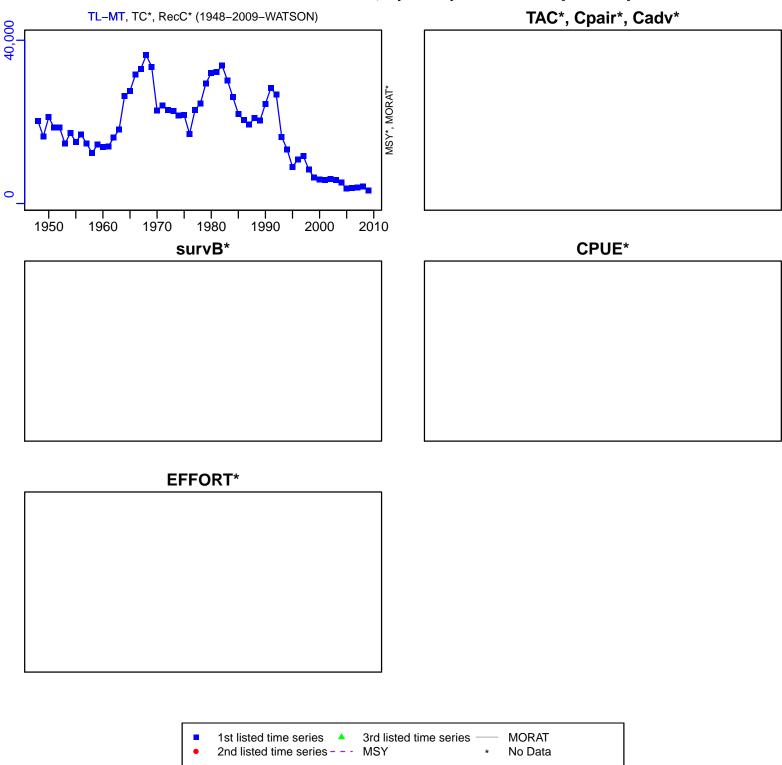
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2009	10,600	-	3+
TN	TN-E00	2009	5,170,000	-	3+
R	-	-	-	-	-
F	F-1/yr	2009	0.3	-	-
ER	ER-calc-ratio	2009	0.13	-	-
TC	-	-	-		
TL	TL-MT	2009	3170		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2009	1.5		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data

#### Atlantic cod Western Scotian Shelf, Bay of Fundy and Gulf of Maine [COD4X5Yb]





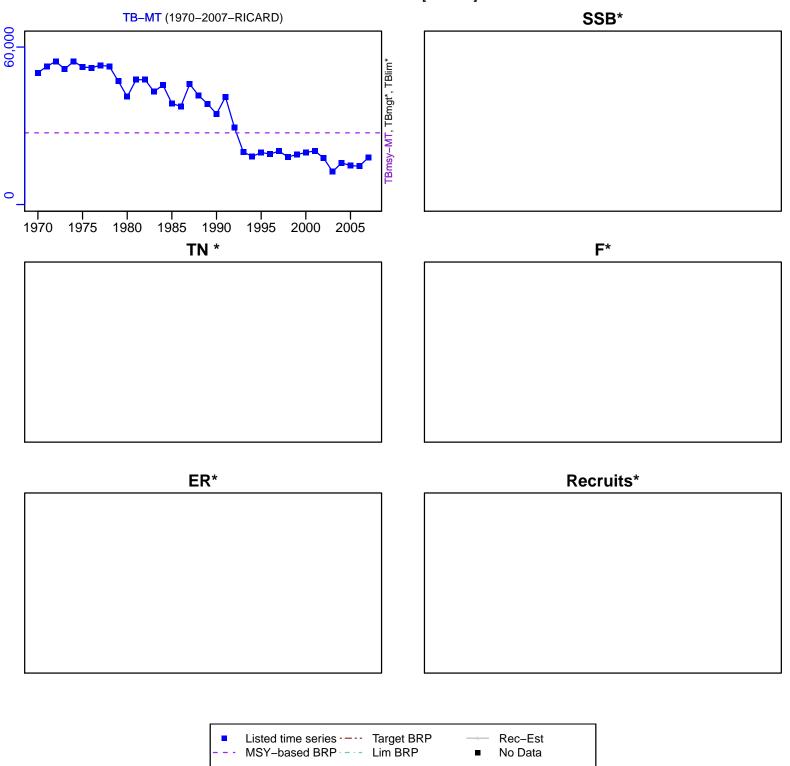
Metadata		
Scientific Name	Brosme brosme	
Current Assess ID	DFO-MAR-CUSK4X-1970-2007-RICARD	
Area	Western Scotian Shelf	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2007	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	25,790
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	0.06
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	TB0-MT	2007	47,430
SSB0	-	-	-
MSY	MSY-MT	2007	1483
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	16,900	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-	]	
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.66	]	
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



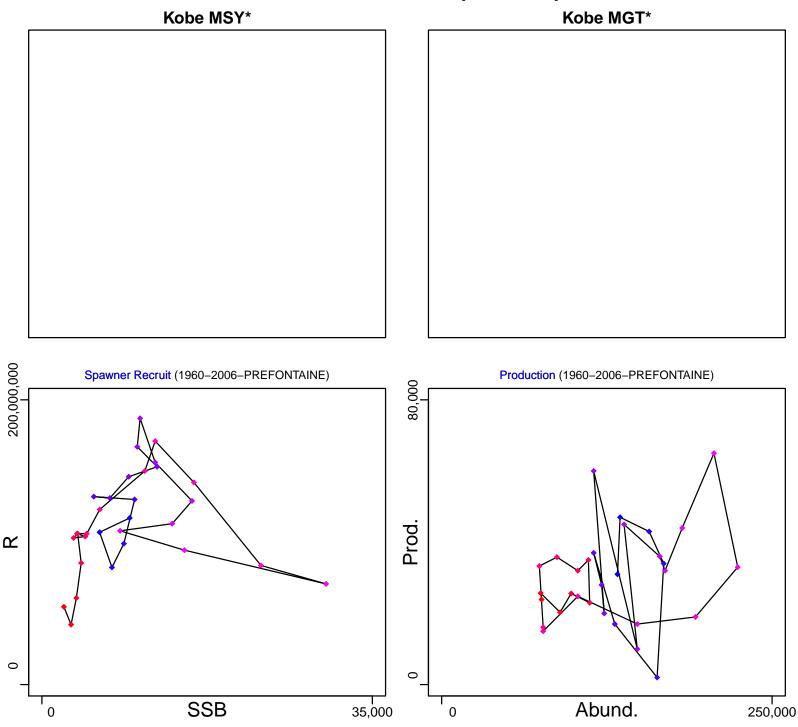
TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	
■ 1st listed time series ▲ 3rd	listed time series — MORAT
2nd listed time series MS	Y * No Data

# Greenland halibut NAFO 23KLMNO [GHAL23KLMNO]

Metadata				
Scientific Name Reinhardtius hippoglossoides				
Current Assess ID	NAFO-SC-GHAL23KLMNO-1960-2010-WATSON			
Area	Labrador Shelf - Grand Banks			
Management Authority	Northwest Atlantic Fisheries Organization			
Assessor	NAFO Scientific Council			
Asmts in RAM	2006, 2010			

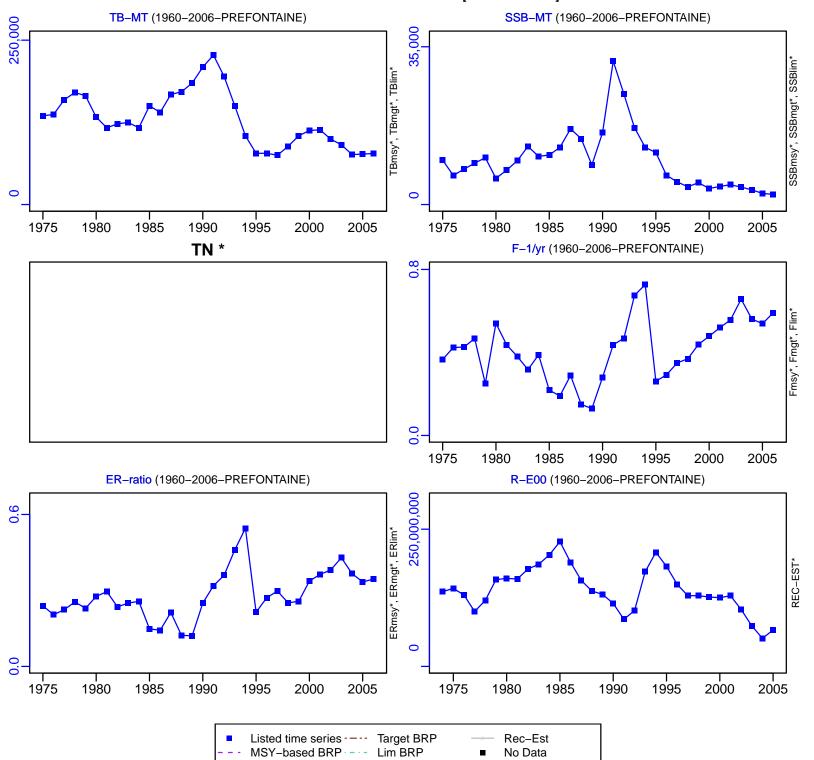
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2006	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	76,500	-	5+
SSB	SSB-MT	2006	2130	-	10+
TN	-	-	-	-	-
R	R-E00	2006	54,600,000	-	-
F	F-1/yr	2006	0.59	-	5 to 10
ER	ER-ratio	2006	0.31	-	-
TC	TC-MT	2010	6530		
TL	TL-MT	2006	24,000	]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

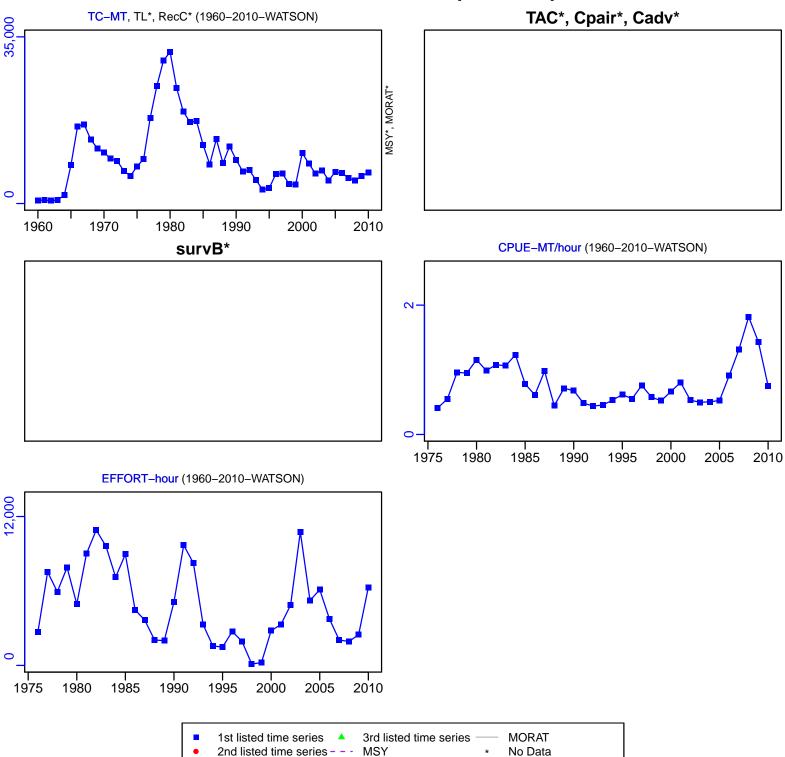


Start Year • End Year \* No Data

#### Greenland halibut NAFO 23KLMNO [GHAL23KLMNO]



### Greenland halibut NAFO 23KLMNO [GHAL23KLMNO]

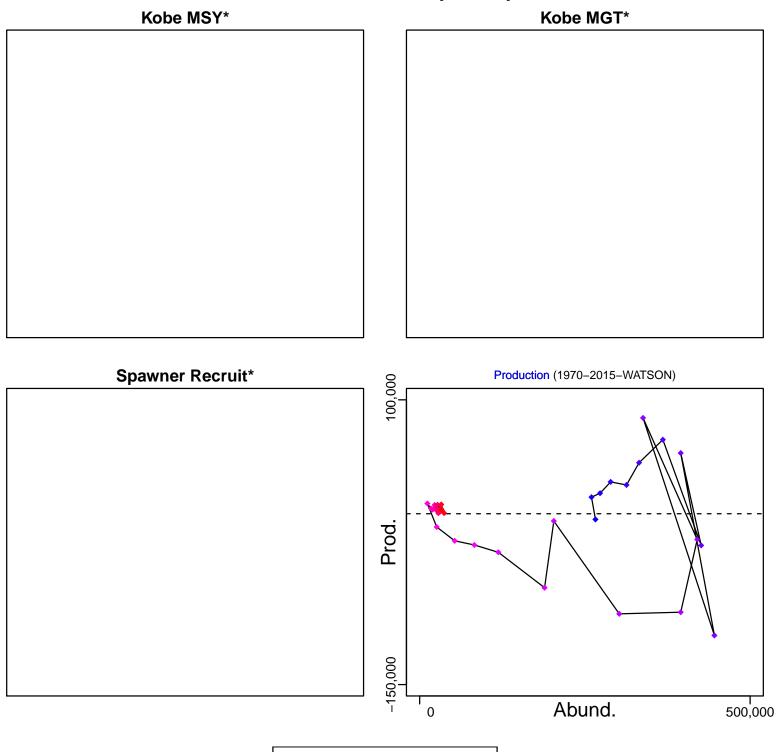


# Greenland halibut NAFO 4RST [GHAL4RST]

Metadata				
Scientific Name Reinhardtius hippoglossoides				
Current Assess ID	DFO-GHAL4RST-1970-2015-WATSON			
Area	Gulf of St. Lawrence			
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2015, 2002			

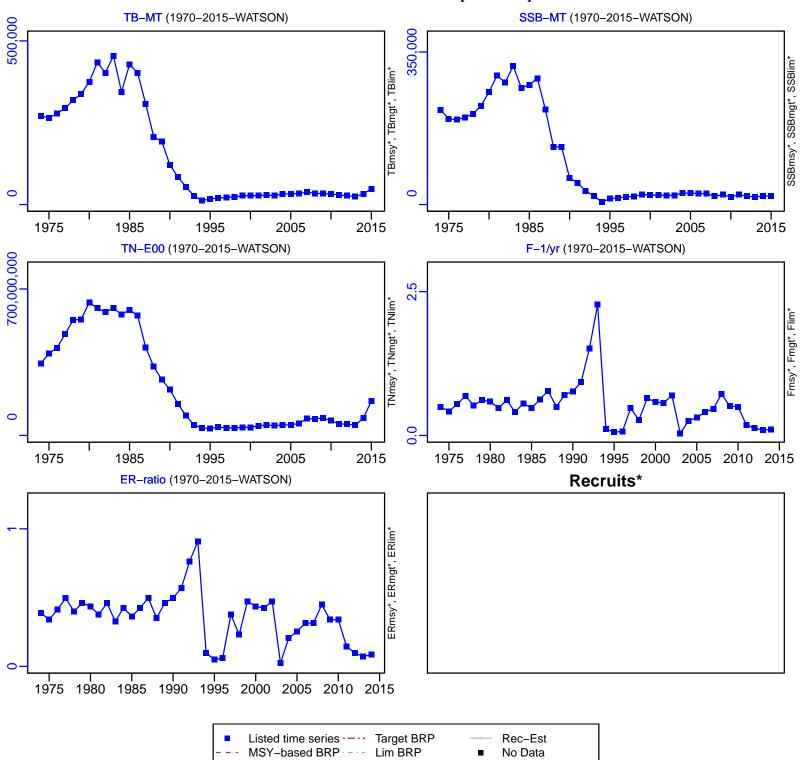
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	47,100	-	3+
SSB	SSB-MT	2015	17,700	-	3+
TN	TN-E00	2015	$1.44 \times 10^{8}$	-	3+
R	-	-	-	-	-
F	F-1/yr	2015	0.09	-	7 to 9
ER	ER-ratio	2015	0.07	-	-
TC	-	-	-		
TL	TL-MT	2015	3950		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

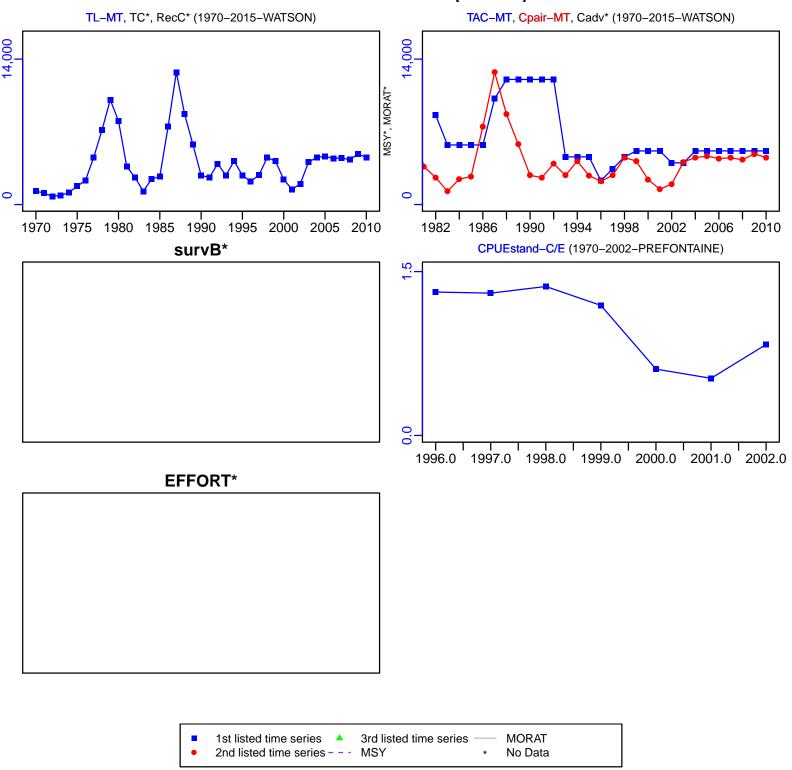


Start Year • End Year \* No Data

#### **Greenland halibut NAFO 4RST [GHAL4RST]**



#### **Greenland halibut NAFO 4RST [GHAL4RST]**



Metadata		
Scientific Name	Strongylocentrotus droebachiensis	
Current Assess ID	DFO-QUE-GURCH4RST-1991-2011-CHING	
Area	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	2011	

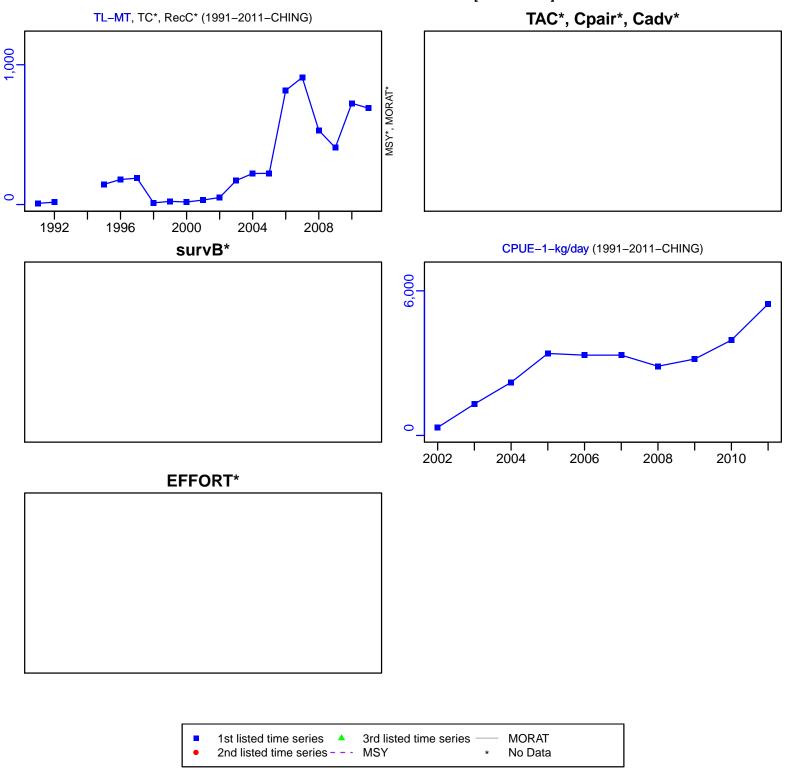
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	578		
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*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

◆ 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

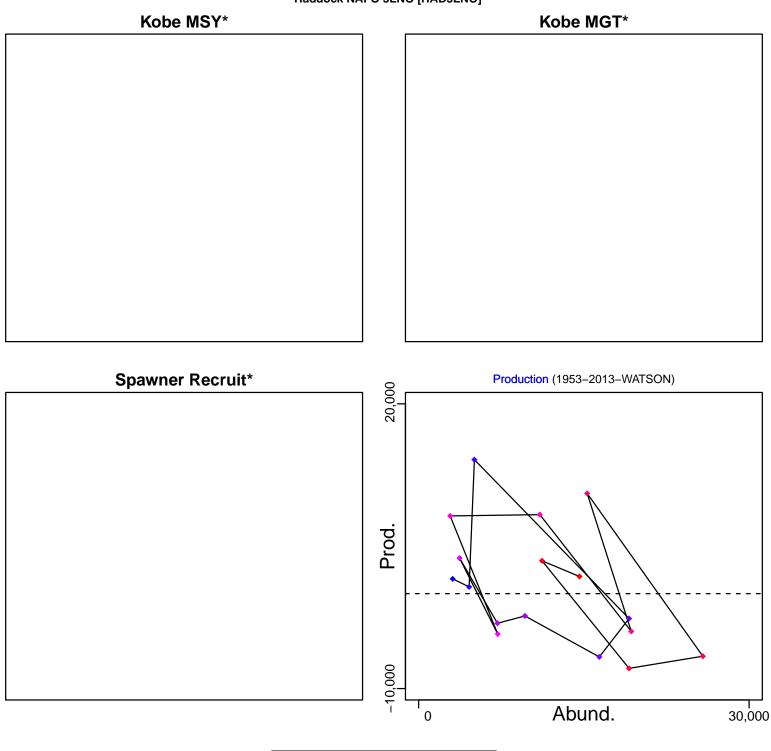


## Haddock NAFO 3LNO [HAD3LNO]

Metadata		
Scientific Name	Melanogrammus aeglefinus	
Current Assess ID	DFO-HAD3LNO-1953-2013-WATSON	
Area	Grand Banks	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2013	

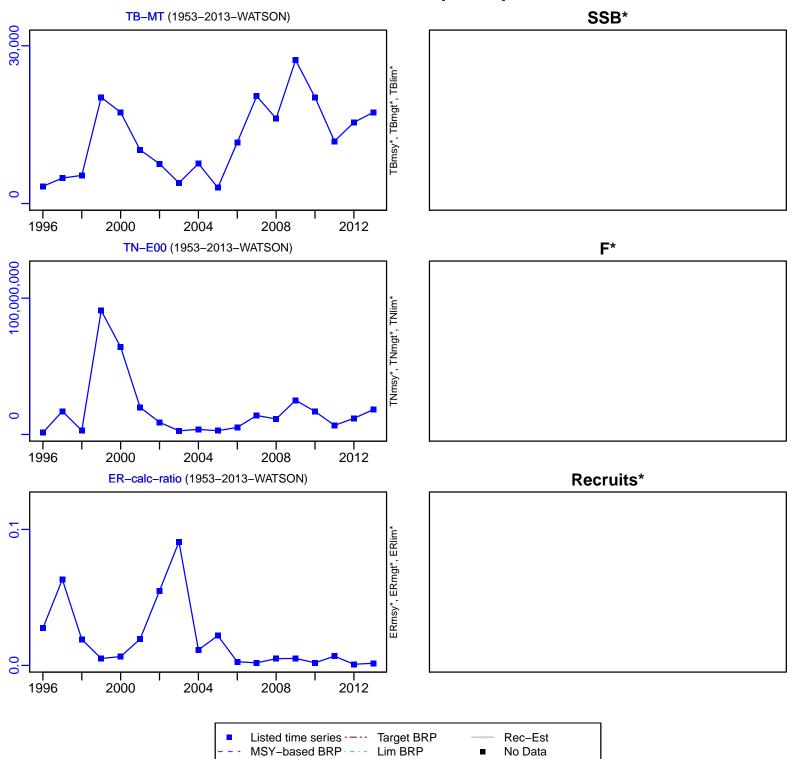
F	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID Asmt Year Curr Value				Age
ТВ	TB-MT	2013	16,400	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	14,900,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0	-	-
TC	-	-	-		
TL	TL-MT	2013	21		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

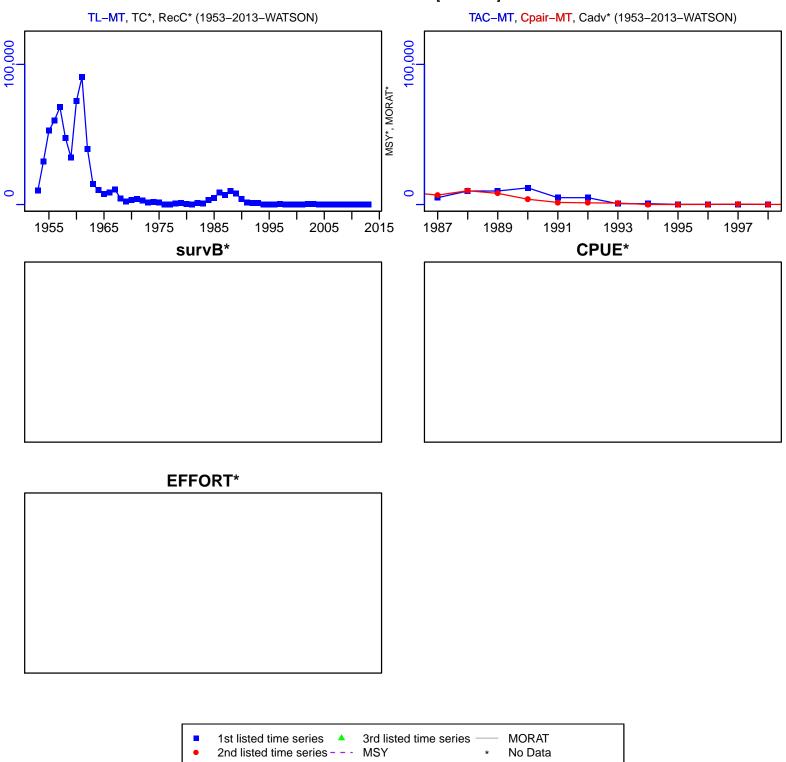


Start Year → End Year → No Data

#### Haddock NAFO 3LNO [HAD3LNO]



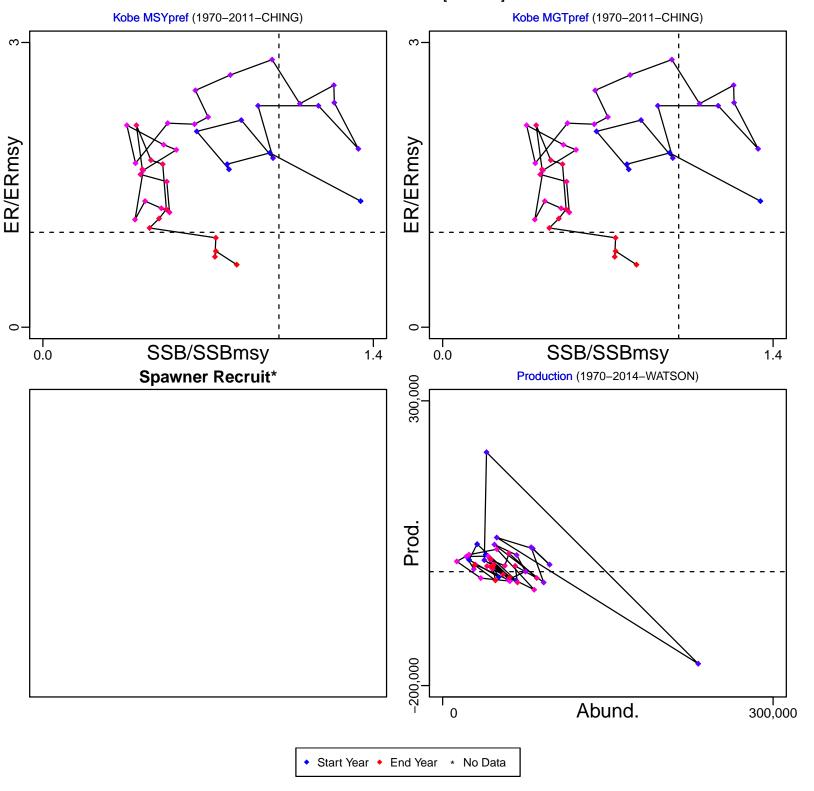
### Haddock NAFO 3LNO [HAD3LNO]

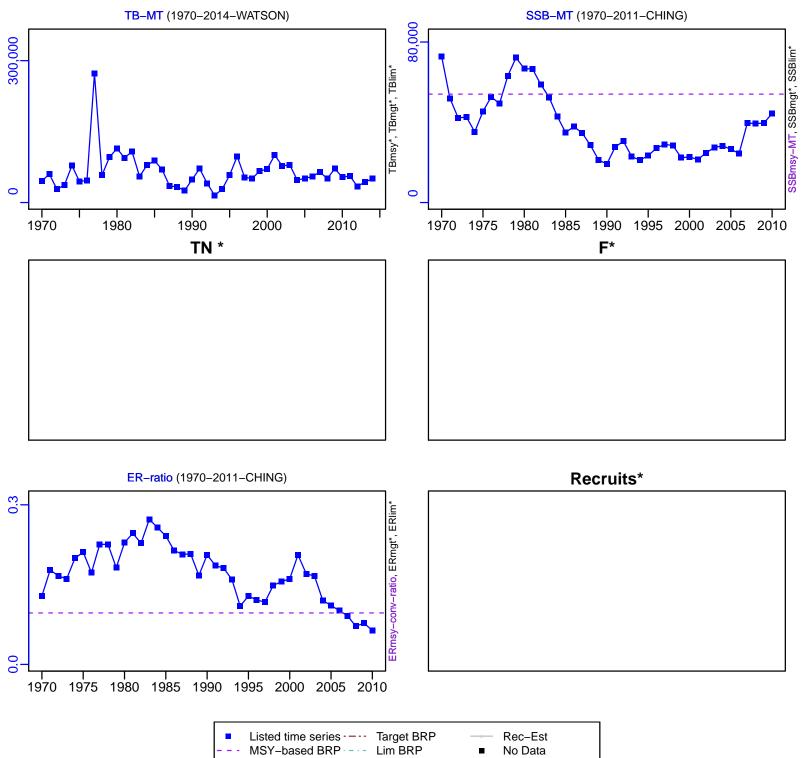


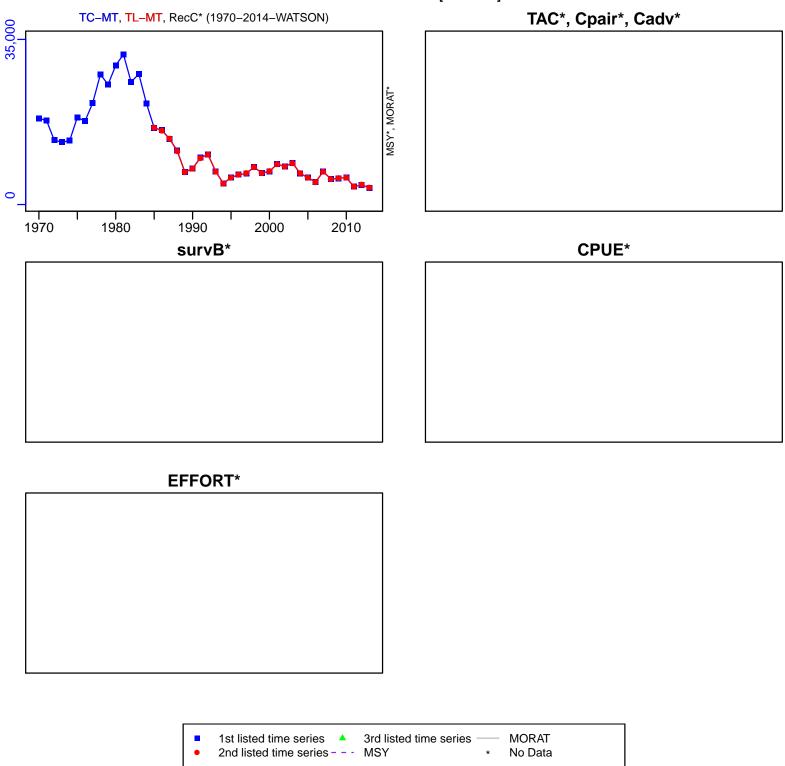
Metadata		
Scientific Name	Melanogrammus aeglefinus	
Current Assess ID	DFO-HAD4X5Y-1970-2014-WATSON	
Area	Western Scotian Shelf, Bay of Fundy and Gulf of Maine	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014, 2011	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2011	52,000	
Fmsy	-	-	-	
ERmsy	ERmsy-conv-ratio	2011	0.09	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	14,700	
M	-	-		
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	42,900	Both	-
SSB	SSB-MT	2011	42,700	-	4+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2014	0.1	-	-
TC	TC-MT	2014	3520		
TL	TL-MT	2014	3520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.82		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-conv-ratio	2011	0.66		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



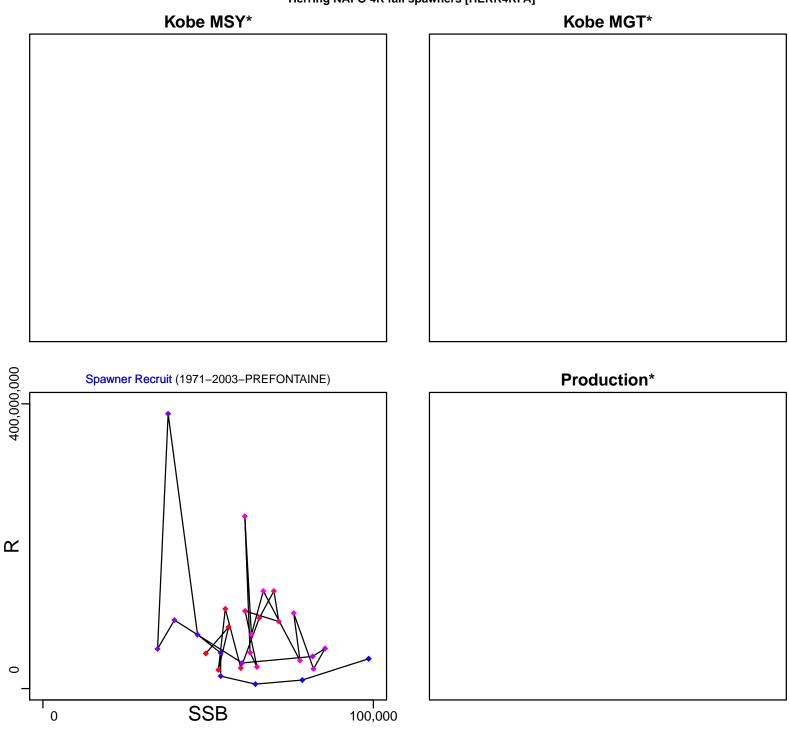




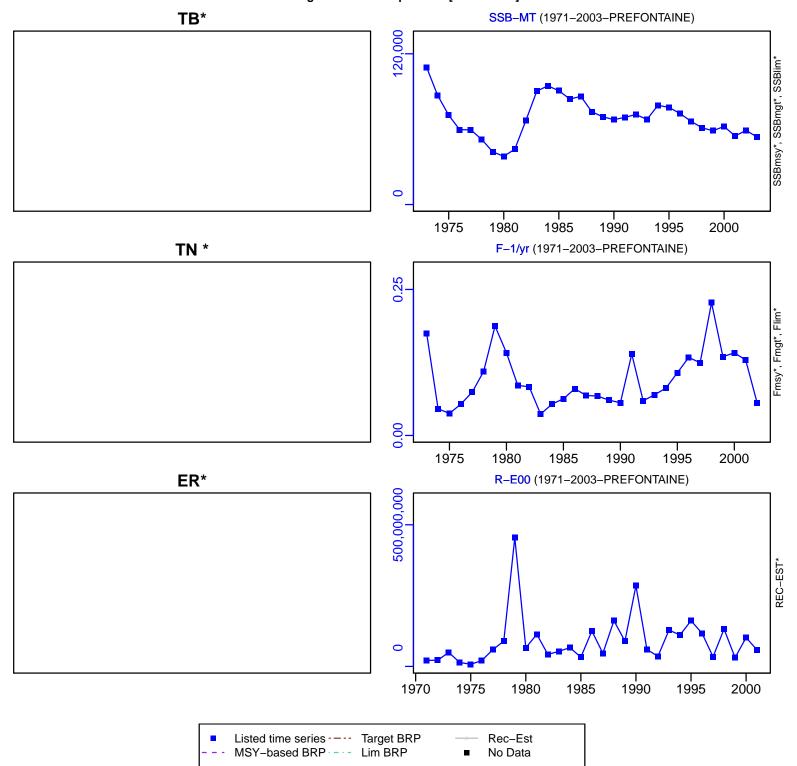
Metadata		
Scientific Name	Clupea harengus	
Current Assess ID	DFO-QUE-HERR4RFA-1971-2003-PREFONTAINE	
Area	NAFO division 4R	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2003	

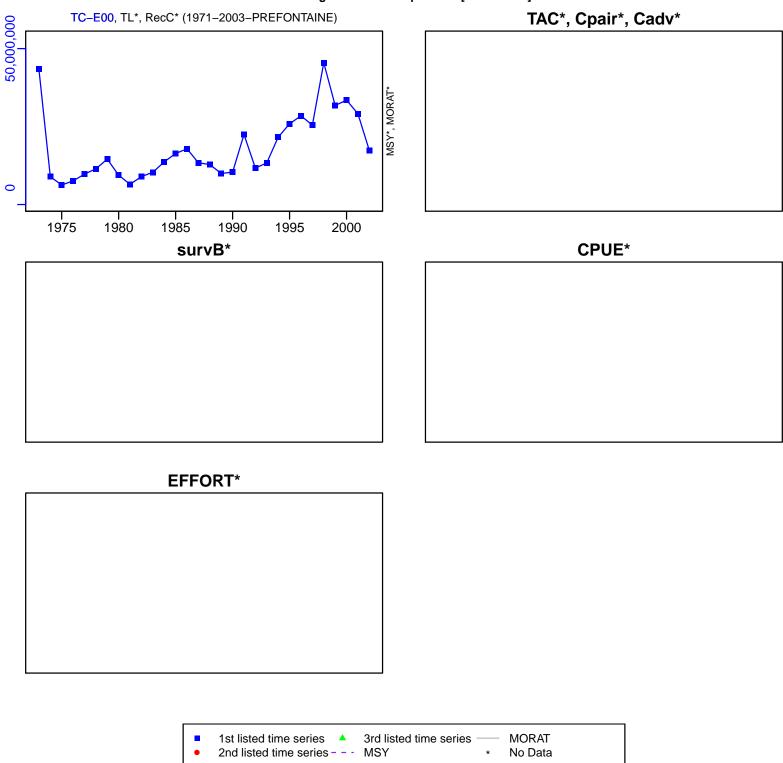
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2003	0.2		
TBlim	TBlim-MT	2003	47,953		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2003	48,500	-	2+
TN	-	-	-	-	-
R	R-E00	2003	49,300,000	-	2
F	F-1/yr	2003	0.05	-	4+
ER	-	-	-	-	-
TC	TC-E00	2003	16,200,000		,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

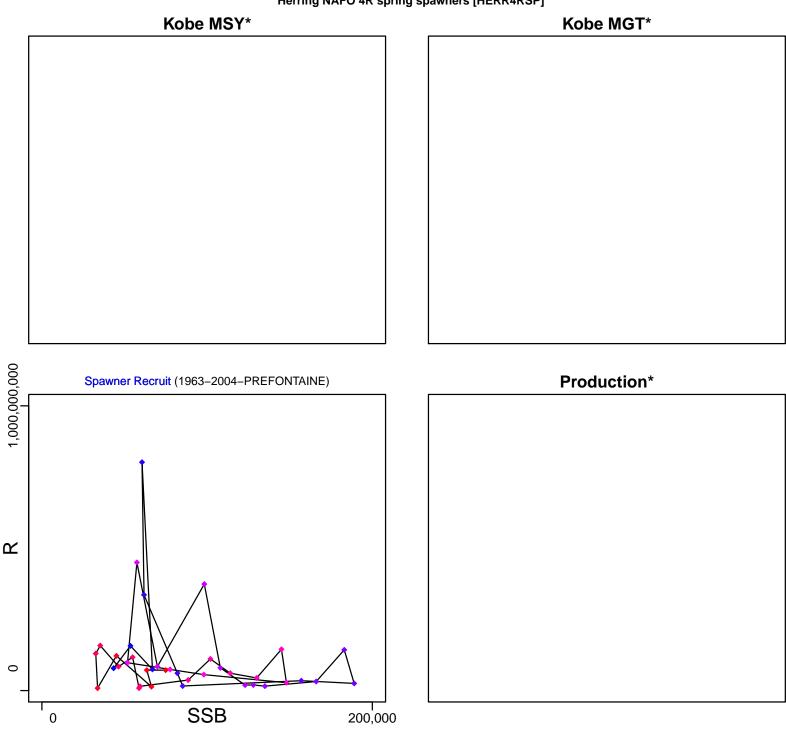




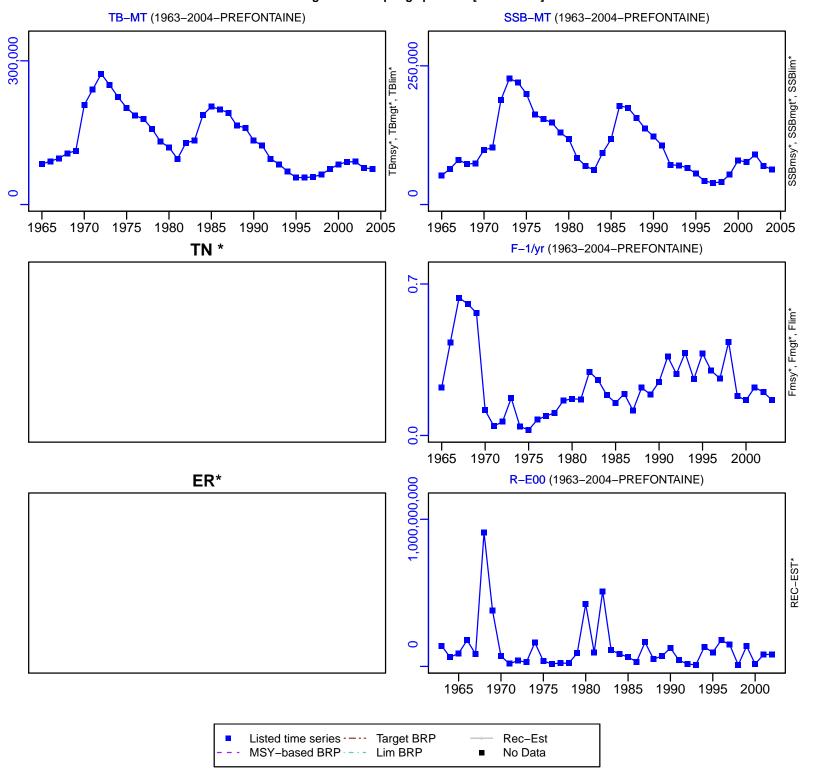
Metadata		
Scientific Name	Clupea harengus	
Current Assess ID	DFO-QUE-HERR4RSP-1963-2004-PREFONTAINE	
Area	NAFO division 4R	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2004	

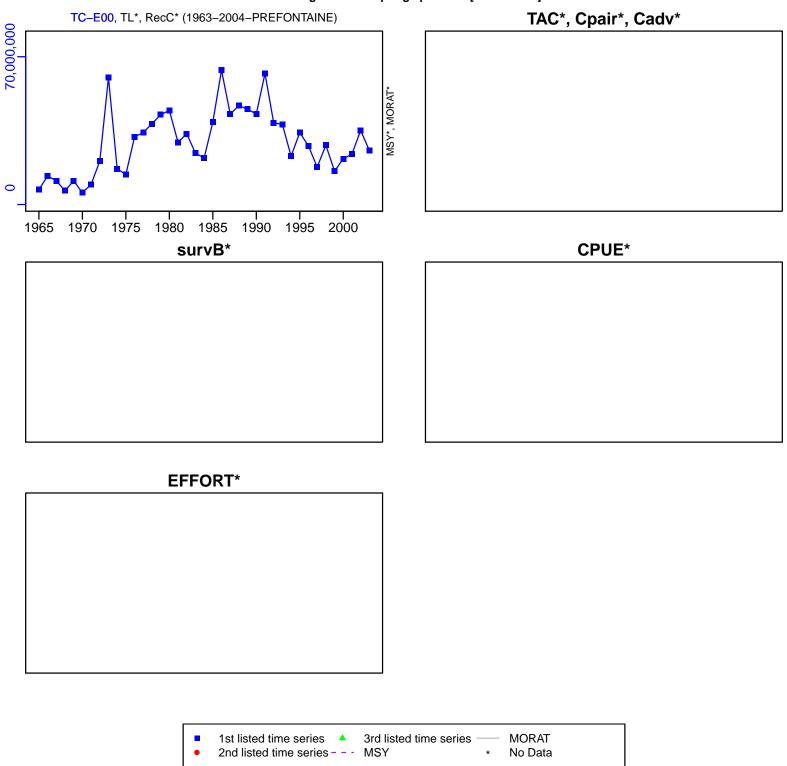
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2004	0.2		
TBlim	TBlim-MT	2004	37,831		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2004	64,300	-	-
SSB	SSB-MT	2004	52,600	-	2+
TN	-	-	-	-	-
R	R-E00	2004	71,800,000	-	2
F	F-1/yr	2004	0.15	-	4+
ER	-	-	-	-	-
TC	TC-E00	2004	22,700,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	ı	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data





Metadata			
Scientific Name	Clupea harengus		
Current Assess ID	DFO-QUE-HERR4S-1979-2010-CHING		
Area	Quebec North Shore		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in RAM	2010		

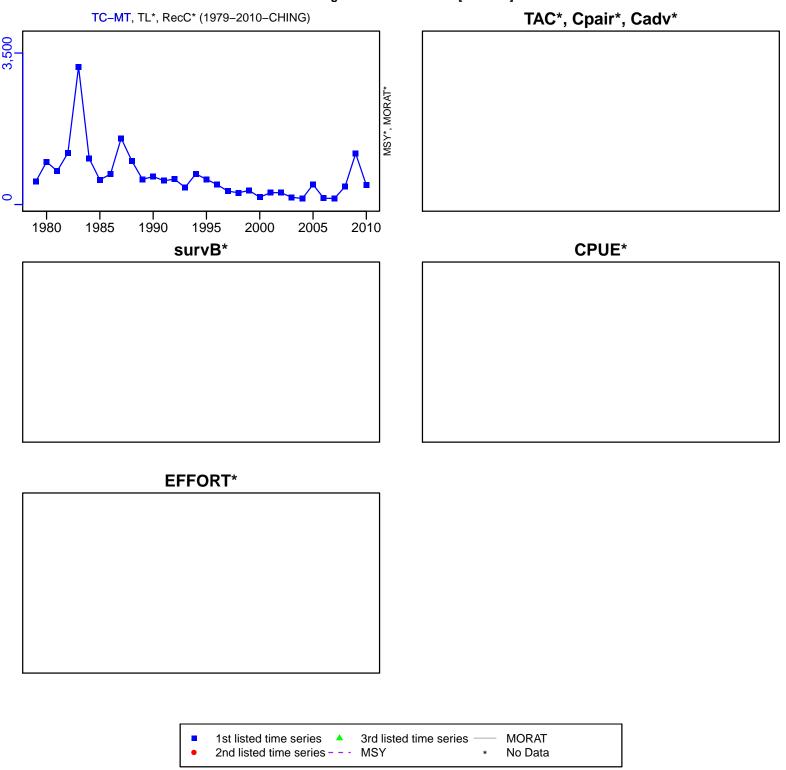
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	407		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

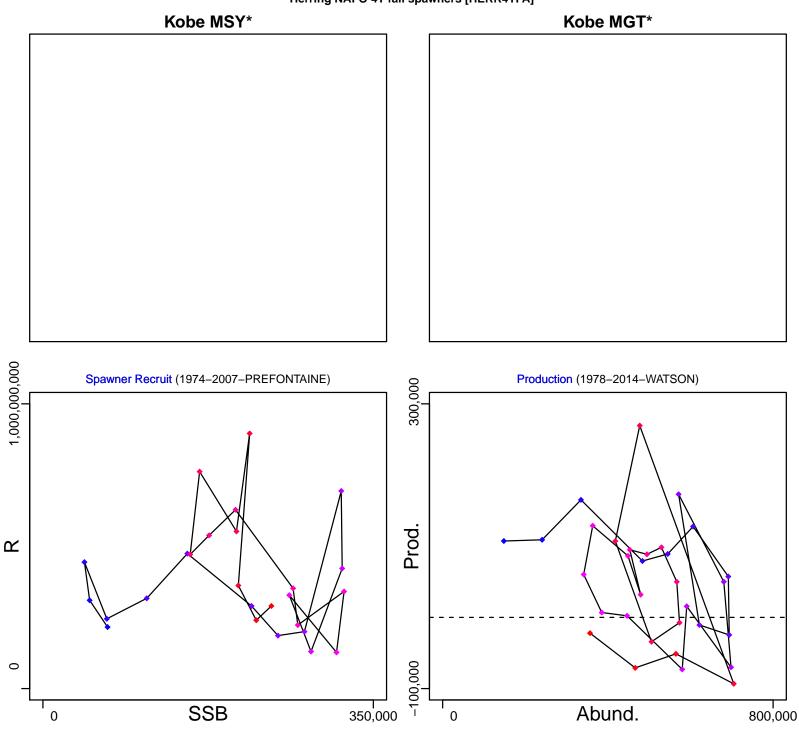
TB*	SSB*
TN *	F*
ER*	Recruits*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
· MSY-based BRP · - · · Li	m BRP ■ No Data



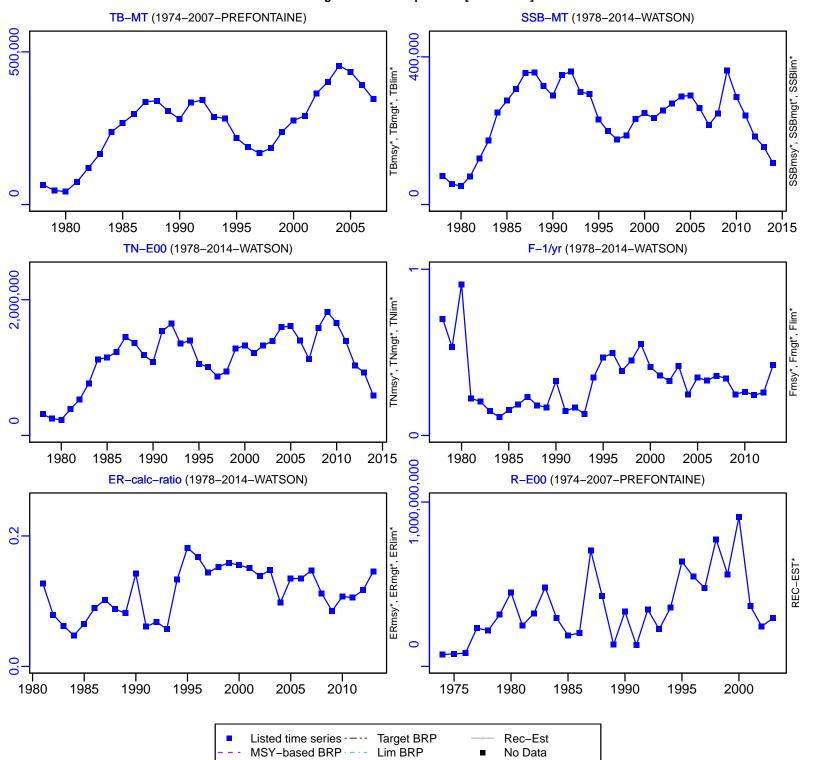
Metadata			
Scientific Name	Clupea harengus		
Current Assess ID	DFO-HERR4TFA-1978-2014-WATSON		
Area Southern Gulf of St. Lawrence			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2014, 2007		

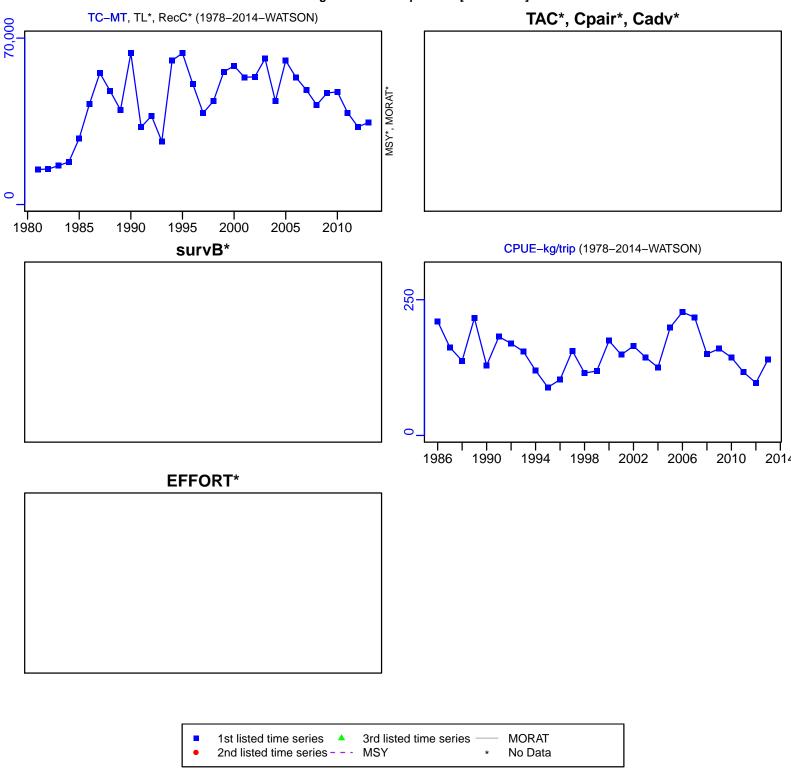
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2014	0.2		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2014	51,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	316,000	-	4+
SSB	SSB-MT	2014	99,000	Both	4 to 11
TN	TN-E00	2014	479,000	Both	4 to 11
R	R-E00	2007	$2.9 \times 10^{8}$	-	4
F	F-1/yr	2014	0.42	Both	5 to 10
ER	ER-calc-ratio	2014	0.11	-	-
TC	TC-MT	2014	34,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year • No Data

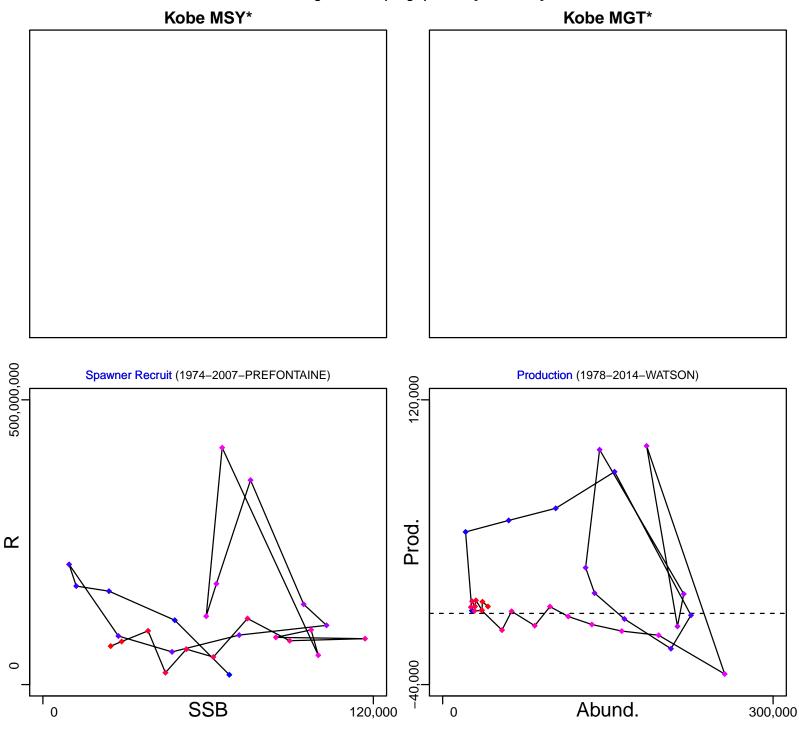




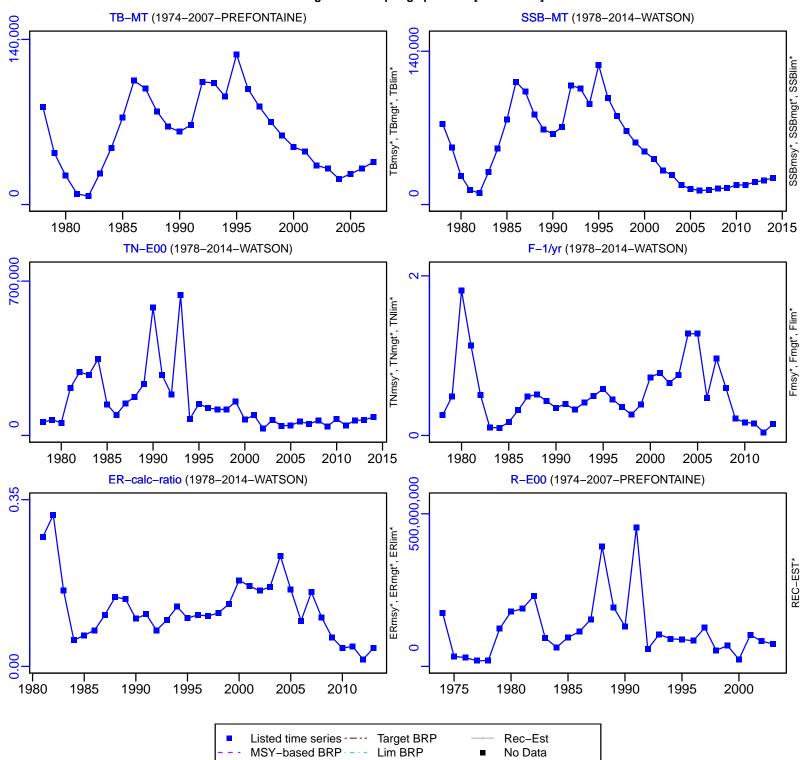
Metadata				
Scientific Name Clupea harengus				
Current Assess ID	nt Assess ID DFO-HERR4TSP-1978-2014-WATSON			
Area	Southern Gulf of St. Lawrence			
Management Authority	ement Authority Department of Fisheries and Oceans, Canada national manageme			
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2014, 2007			

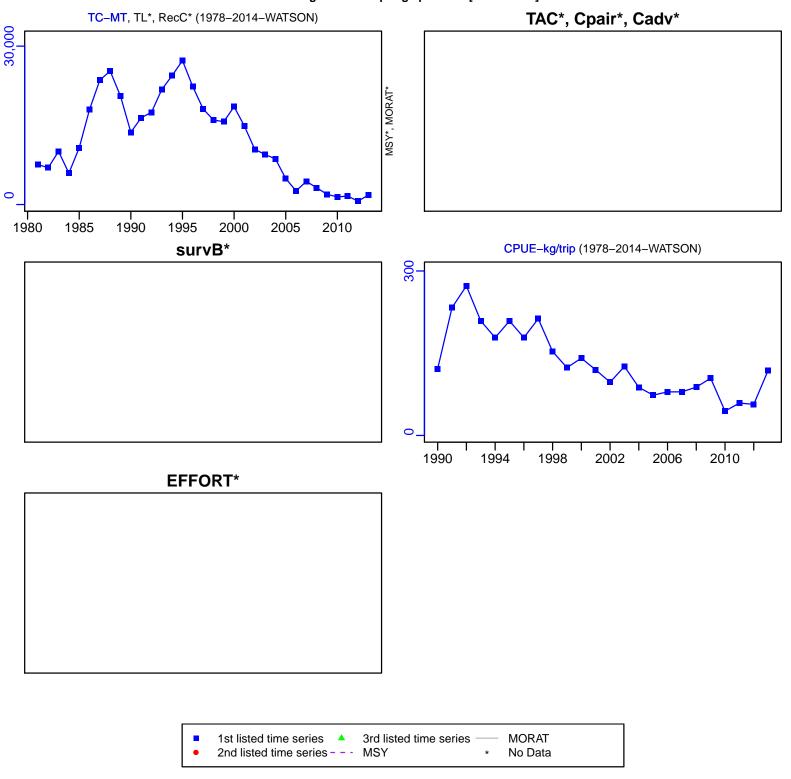
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2014	0.2	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2014	22,000	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	35,600	-	4 to 10
SSB	SSB-MT	2014	22,300	Both	4 to 11
TN	TN-E00	2014	76,800	Both	4 to 11
R	R-E00	2007	67,500,000	-	4
F	F-1/yr	2014	0.14	Both	5 to 10
ER	ER-calc-ratio	2014	0.04	-	-
TC	TC-MT	2014	1700		•
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year • No Data



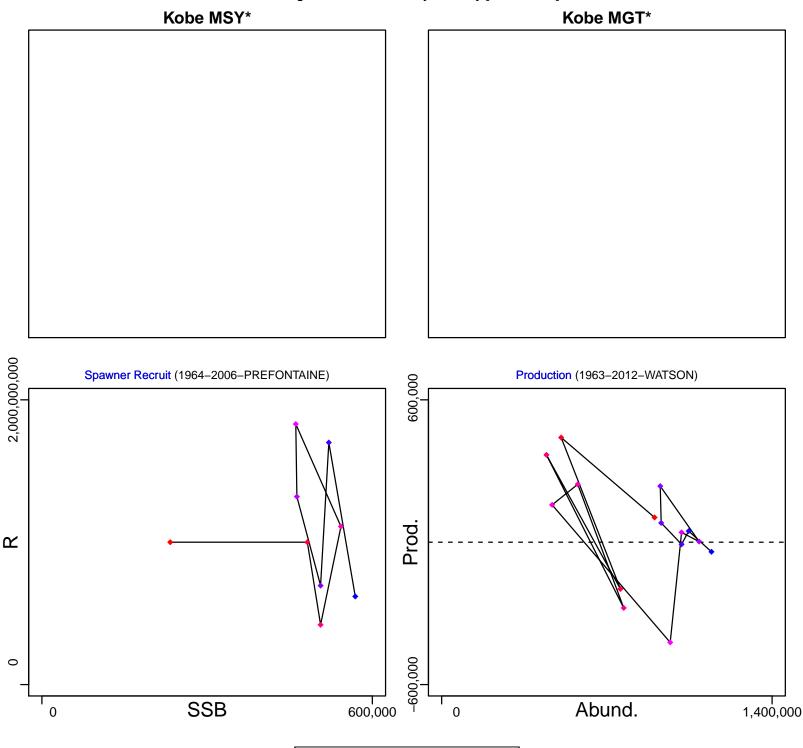


# Herring Scotian Shelf and Bay of Fundy [HERR4VWX]

Metadata				
Scientific Name Clupea harengus				
Current Assess ID	Current Assess ID DFO-HERR4VWX-1963-2012-WATSON			
Area Scotian Shelf and Bay of Fundy				
Management Authority Department of Fisheries and Oceans, Canada national manage				
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2012, 2006			

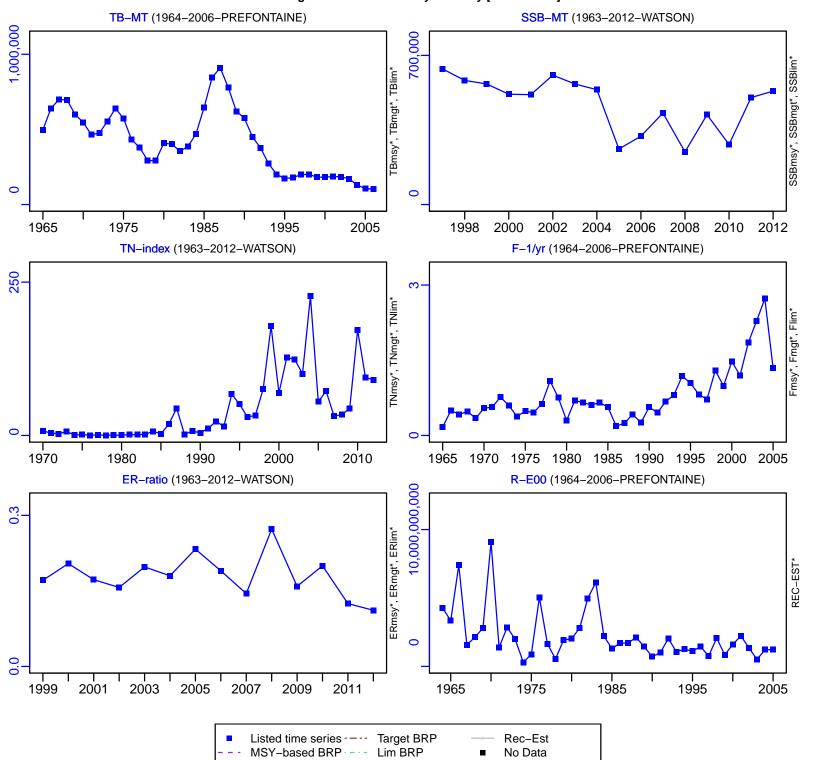
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2006	0.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	91,700	-	-
SSB	SSB-MT	2012	476,000	-	-
TN	TN-index	2012	83	-	-
R	R-E00	2006	$1 \times 10^9$	-	1
F	F-1/yr	2006	1.21	-	5 to 8
ER	ER-ratio	2012	0.1	Both	-
TC	-	-	-		
TL	TL-MT	2012	47,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

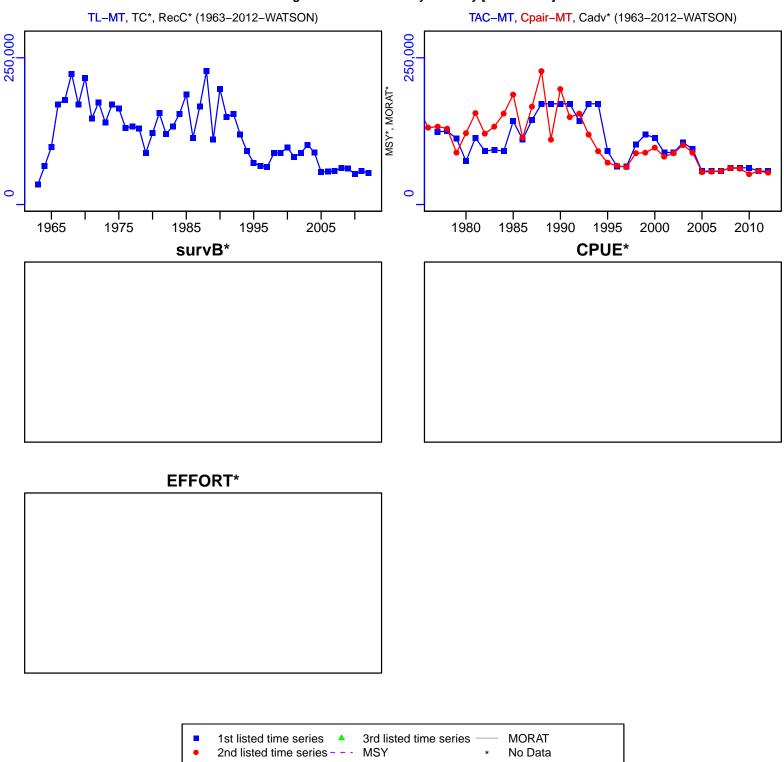


Start Year • End Year \* No Data

#### Herring Scotian Shelf and Bay of Fundy [HERR4VWX]



# Herring Scotian Shelf and Bay of Fundy [HERR4VWX]



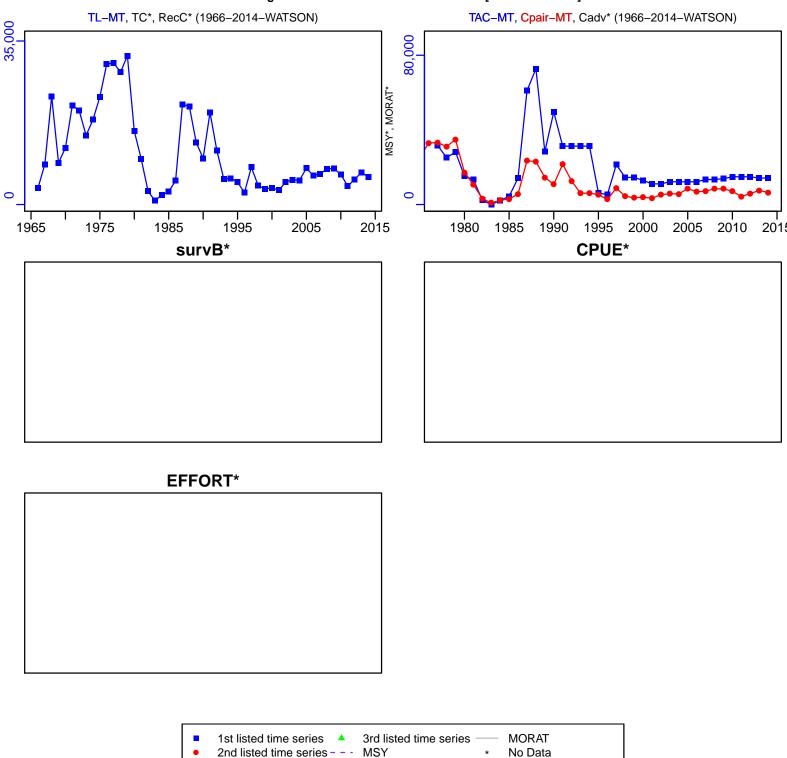
Metadata			
Scientific Name Clupea harengus			
Current Assess ID	DFO-HERRNFLDESC-1966-2014-WATSON		
Area	Newfoundland East and South Coast		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2014		

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	5770		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spawner Recruit	Froduction

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



# American lobster Quebec North Shore and Anticosti Island (LFA 15-18) [LOBSTERLFA15-18]

Metadata			
Scientific Name	Homarus americanus		
Current Assess ID	DFO-QUE-LOBSTERLFA15-18-1984-2011-CHING		
Area	Quebec North Shore and Anticosti Island (LFA 15-18)		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in RAM	2011		

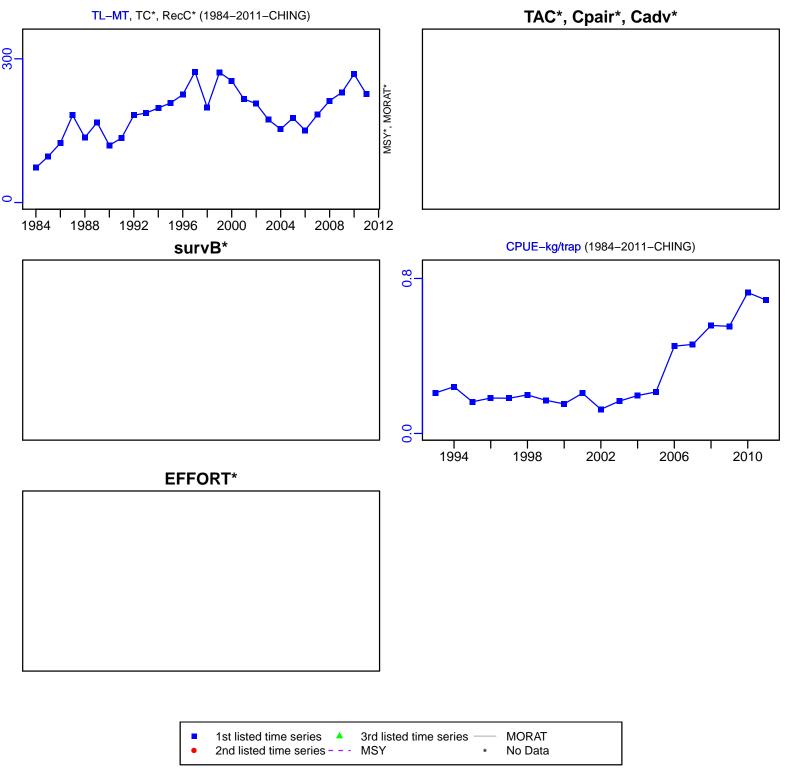
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2011	195			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

American lobster Quebec North Shore and Anticosti Island (LFA 15–18) [LOBSTERLFA15–18] **Kobe MSY\* Kobe MGT\*** Spawner Recruit\* **Production\*** 

American lobster Quebec North Shore and Anticosti Island (LFA 15-18) [LOBSTERLFA15-18] TB\* SSB\* **TN** \* F\* ER\* Recruits\*

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



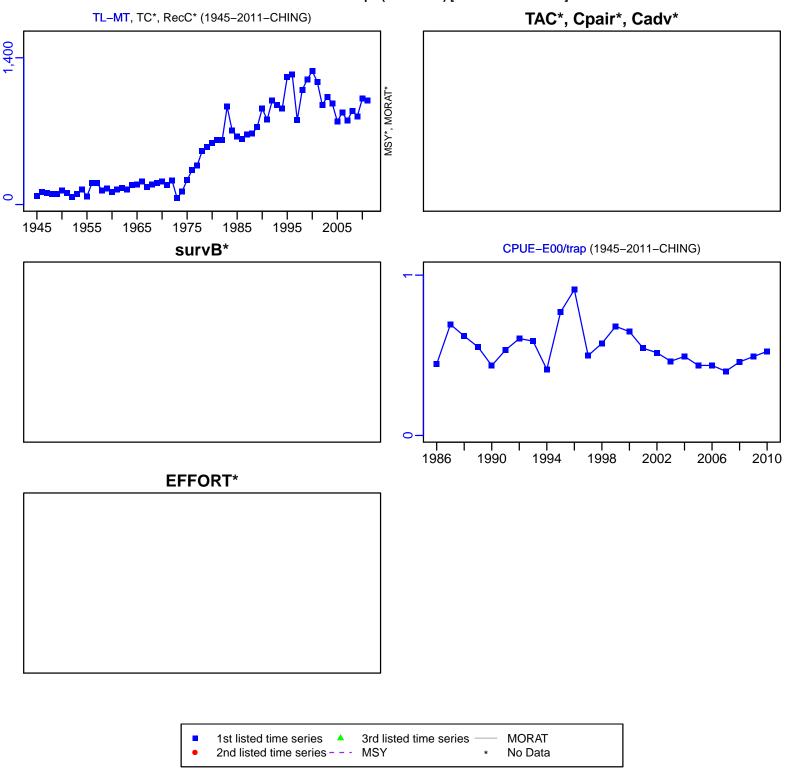
Metadata				
Scientific Name Homarus americanus				
Current Assess ID	DFO-QUE-LOBSTERLFA19-21-1945-2011-CHING			
Area	Gaspe (LFA 19-21)			
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans - Quebec Region			
Asmts in RAM	2011			

F	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	2011	872		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

TB*	SSB*
TN *	F*
ER*	Recruits*



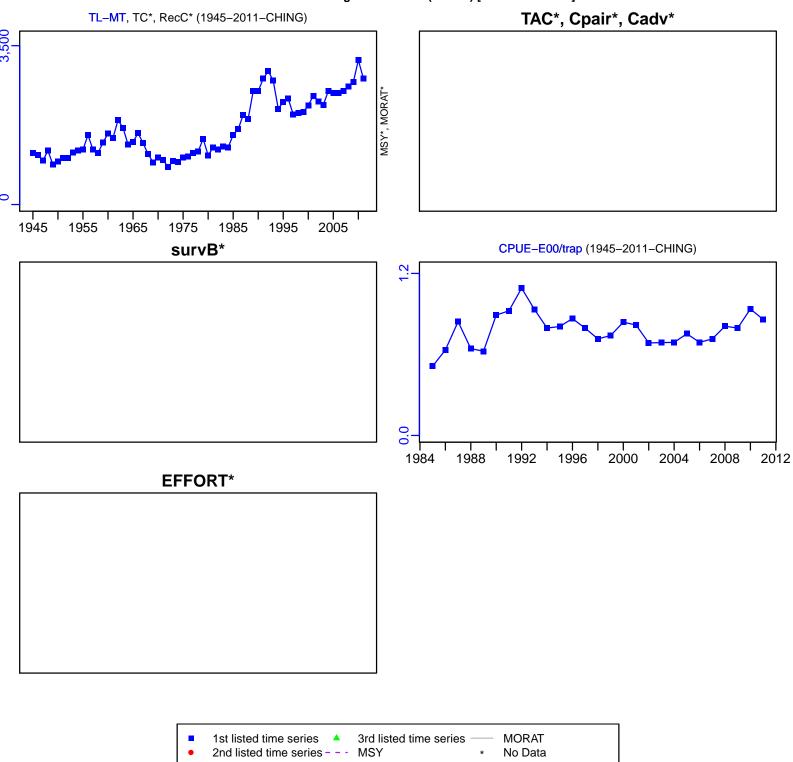
Metadata	
Scientific Name	Homarus americanus
Current Assess ID	DFO-QUE-LOBSTERLFA22-1945-2011-CHING
Area	Magdalen Islands (LFA 22)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2011

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	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	2650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spawner Recruit	1 Toddottott
Spawner Recruit	1 Toduction
Spawner Recruit	

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



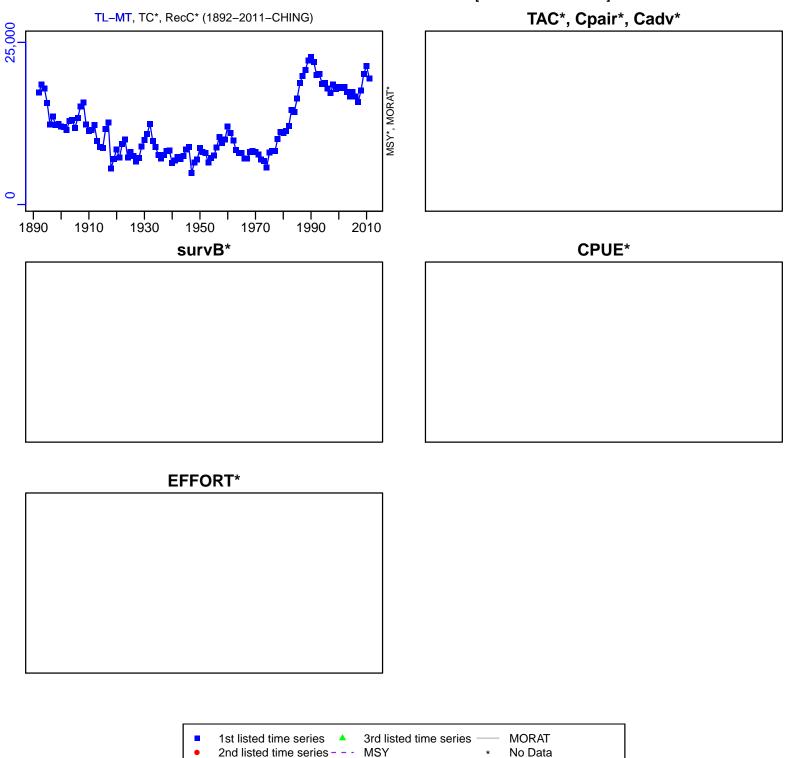
Metadata	
Scientific Name	Homarus americanus
Current Assess ID	DFO-SG-LOBSTERLFA23-26AB-1892-2011-CHING
Area	Southern Gulf of St. Lawrence
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Southern Gulf Region
Asmts in RAM	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	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	18,900		
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



# American lobster Atlantic Coast of Nova Scotia (LFA 27-33) [LOBSTERLFA27-33]

Metadata	
Scientific Name	Homarus americanus
Current Assess ID	DFO-MAR-LOBSTERLFA27-33-1980-2010-CHING
Area	Atlantic Coast of Nova Scotia (LFA 27-33)
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2010

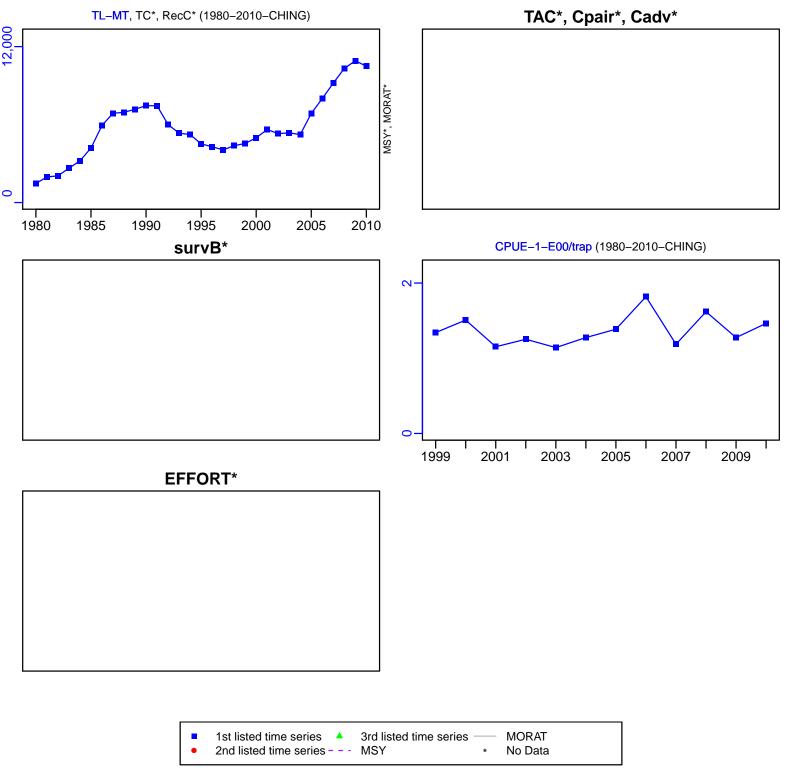
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	9810		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

American lobster Atlantic Coast of Nova Scotia (LFA 27-33) [LOBSTERLFA27-33]

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



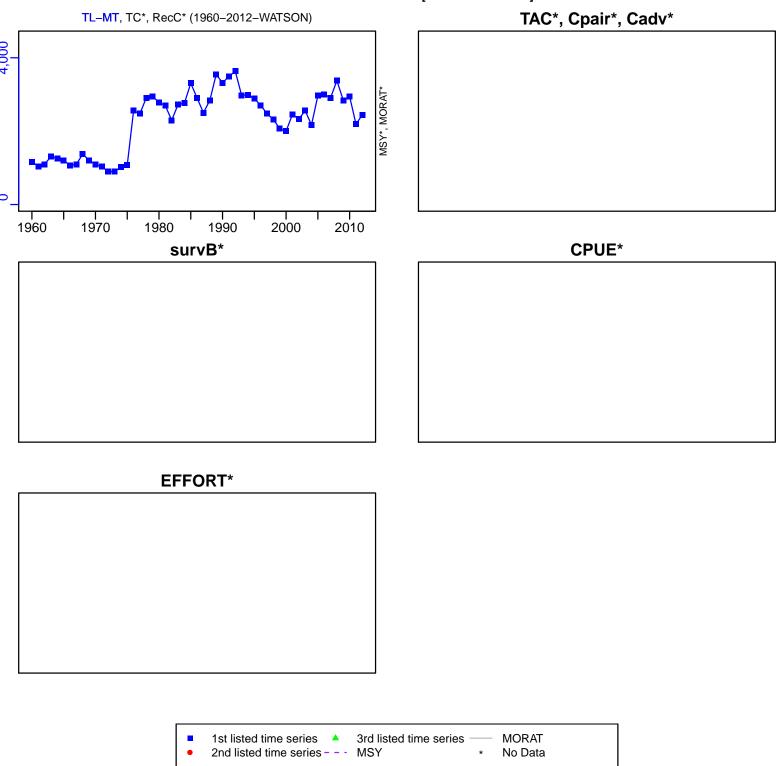
Metadata			
Scientific Name	Homarus americanus		
Current Assess ID	DFO-LOBSTERLFA3-14-1960-2012-WATSON		
Area Lobster Fishing Areas 3-14			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

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	2012	2150		
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*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

TB*	SSB*
TN *	F*
ER*	Recruits*
Г	1
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data



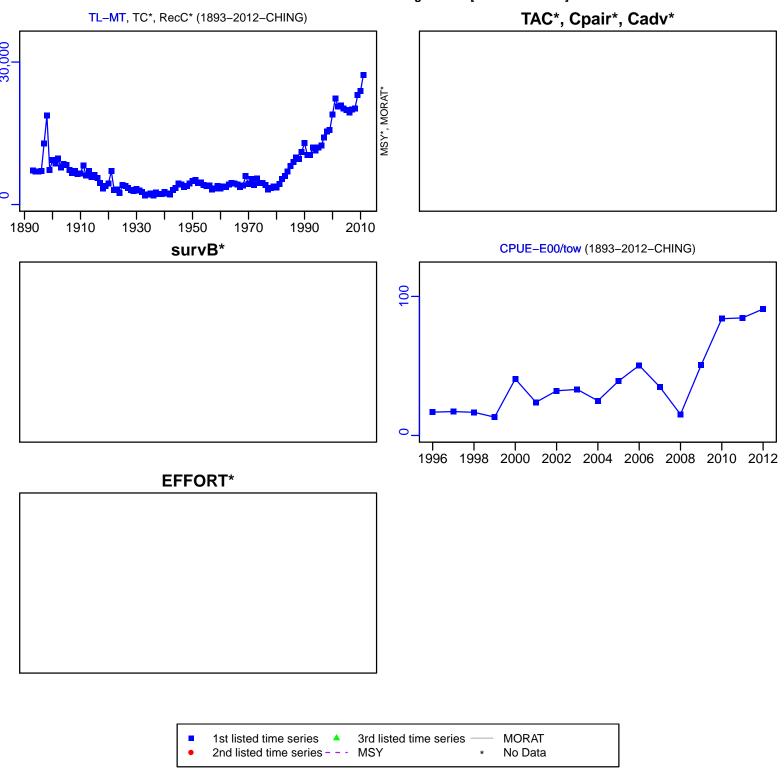
Metadata			
Scientific Name	Homarus americanus		
Current Assess ID	DFO-MAR-LOBSTERLFA34-1893-2012-CHING		
Area	Lobster Fishing Area 34		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2012		

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	2012	23,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

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



	Metadata
Scientific Name	Homarus americanus
Current Assess ID	DFO-MAR-LOBSTERLFA35-38-1893-2012-CHING
Area	Lobster Fishing Areas 35-38
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2012

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

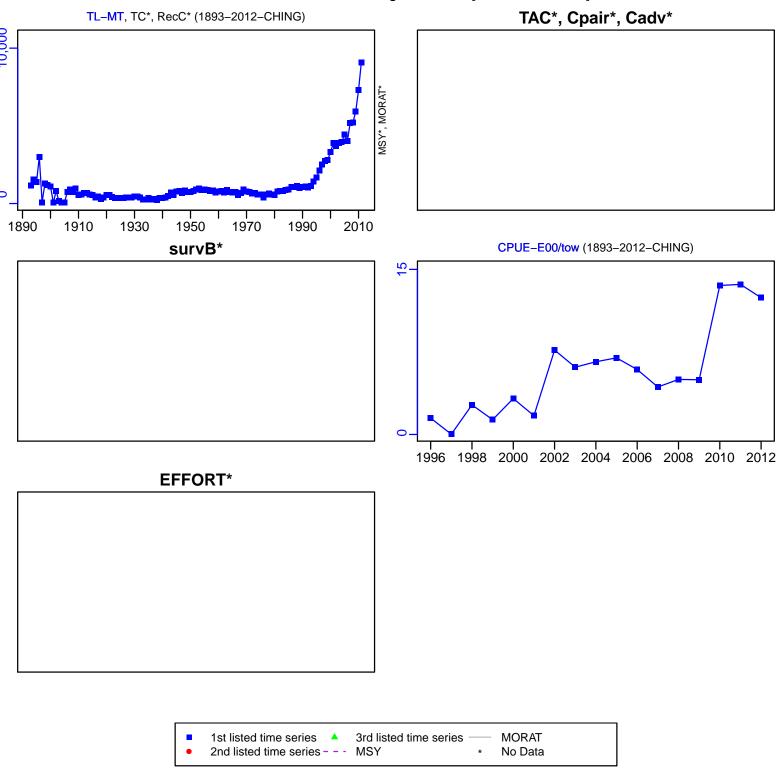
		Time Series	•		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	8470		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

## American lobster Lobster Fishing Areas 35–38 [LOBSTERLFA35–38]

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time porice T	orgat PPD —— Pop Est
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

#### American lobster Lobster Fishing Areas 35-38 [LOBSTERLFA35-38]



Metadata			
Scientific Name	Homarus americanus		
Current Assess ID DFO-LOBSTERLFA41-1981-2012-WATSON			
Area Lobster Fishing Area 41			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

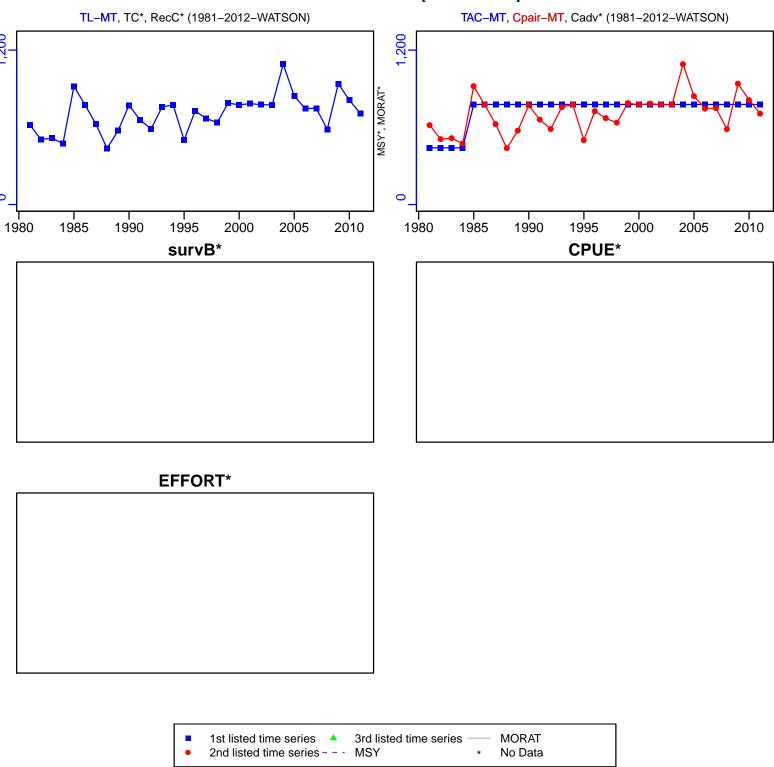
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	654		
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*
*	F*
ER*	Recruits*
Г	
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

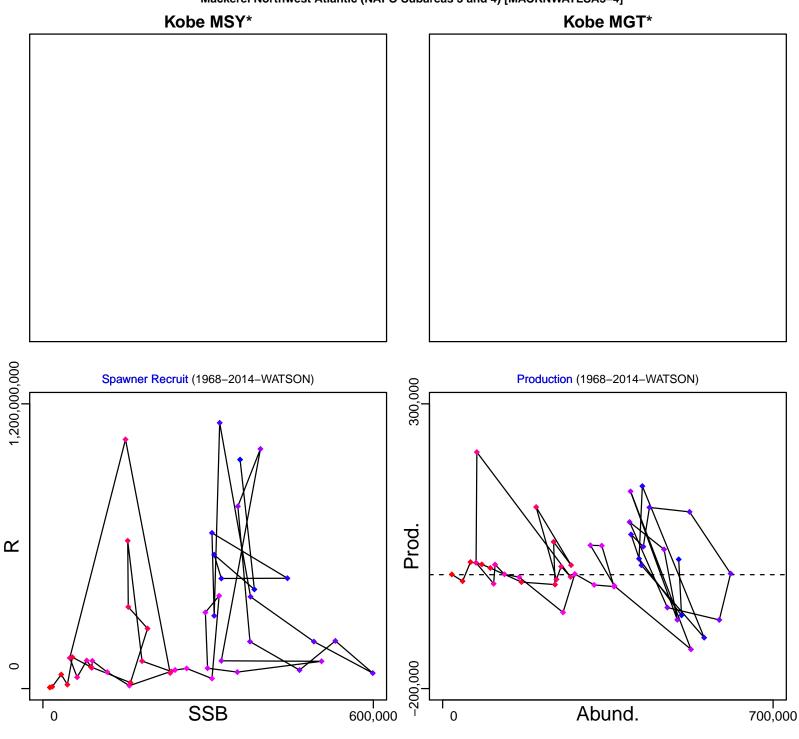


# Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]

Metadata			
Scientific Name	Scomber scombrus		
Current Assess ID DFO-MACKNWATLSA3-4-1968-2014-WATSON			
Area Northwest Atlantic (NAFO Subareas 3 and 4)			
Management Authority Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2014, 2011		

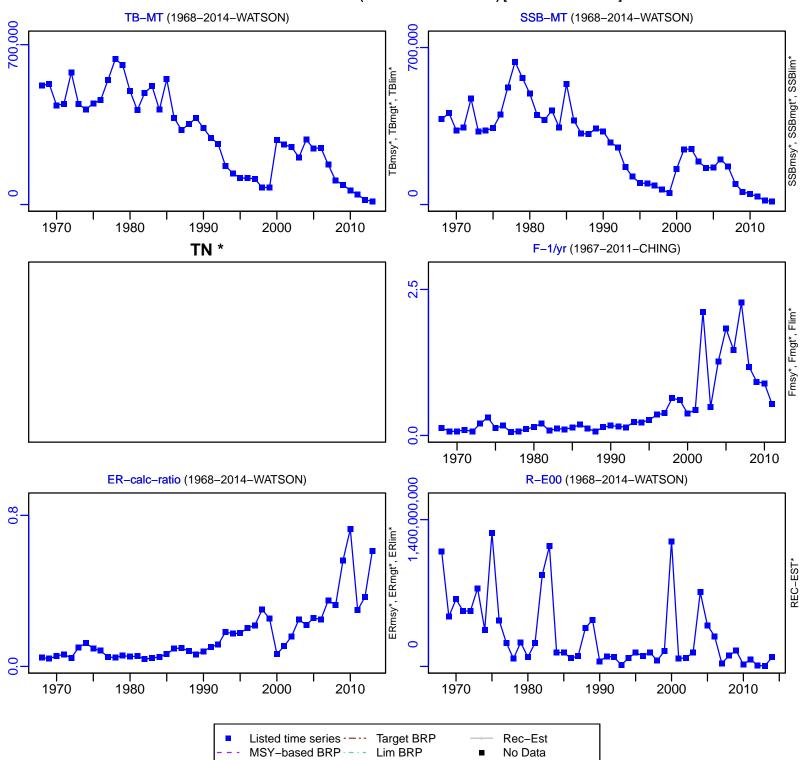
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	13,400	-	-
SSB	SSB-MT	2014	12,500	-	1.37
TN	-	-	-	-	-
R	R-E00	2014	77,100,000	-	-
F	F-1/yr	2011	0.47	-	8+
ER	ER-calc-ratio	2014	0.55	-	-
TC	-	-	-		
TL	TL-MT	2014	7430		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

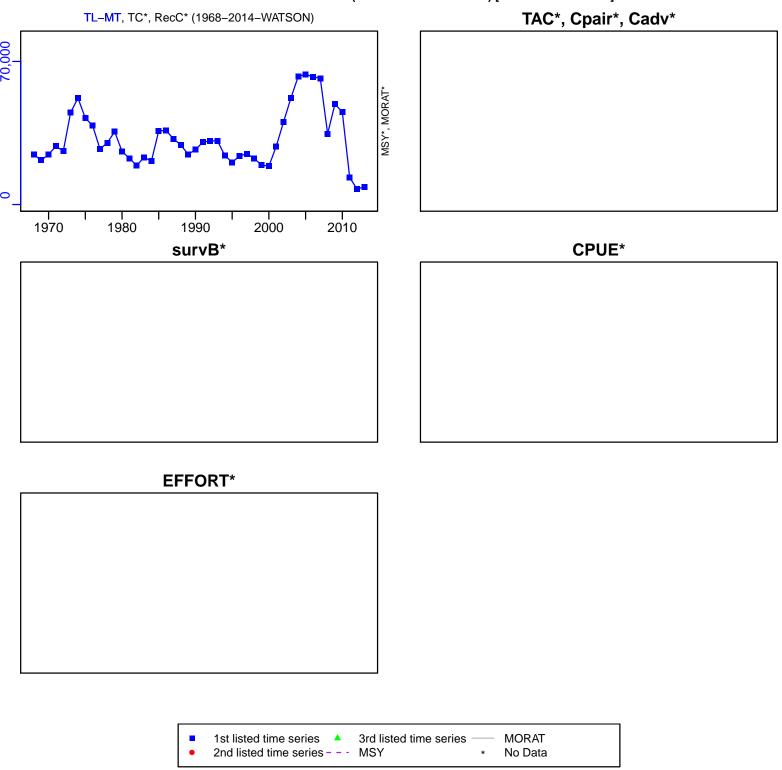


Start Year • End Year • No Data

#### Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]



## Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]

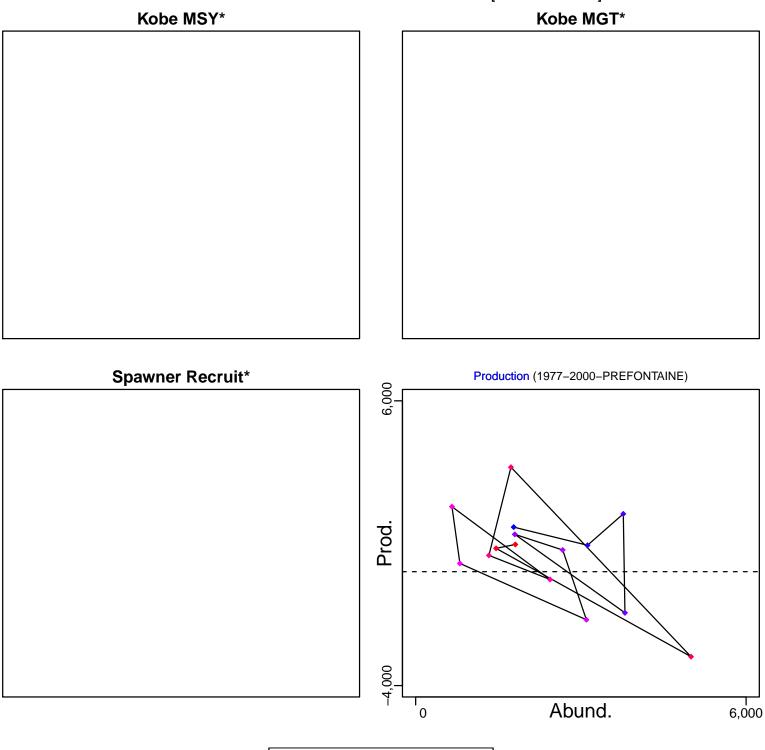


## Monkfish Labrador Shelf - Grand Banks - St. Pierre Bank [MONK2J3KLNOPs]

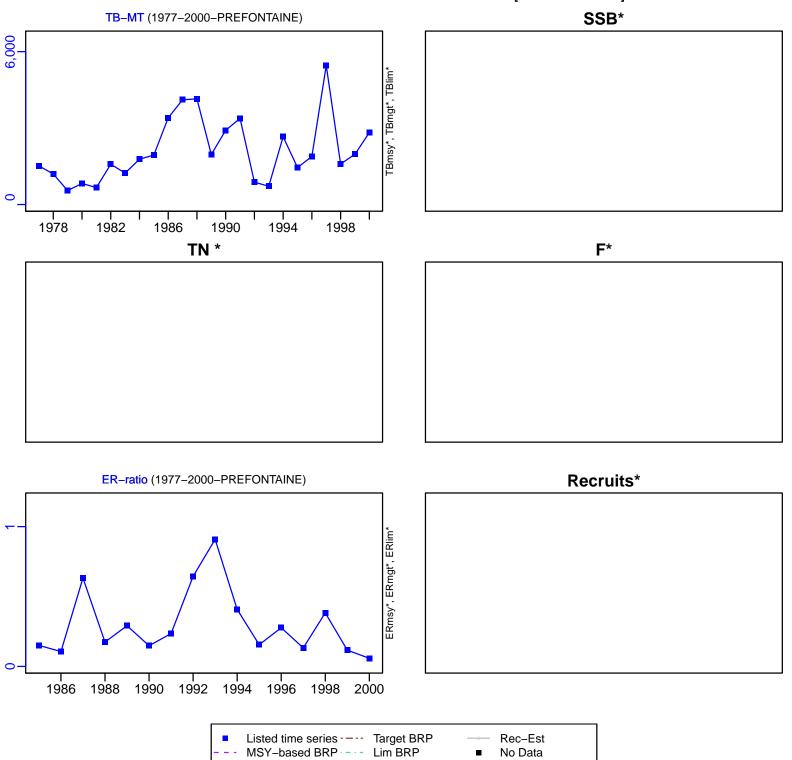
Metadata			
Scientific Name	Lophius americanus		
Current Assess ID DFO-NFLD-MONK2J3KLNOPs-1977-2000-PREFONTAINE			
Area Labrador Shelf-Grand Banks-S. Pierre Bank			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Newfoundland Region		
Asmts in RAM	2000		

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

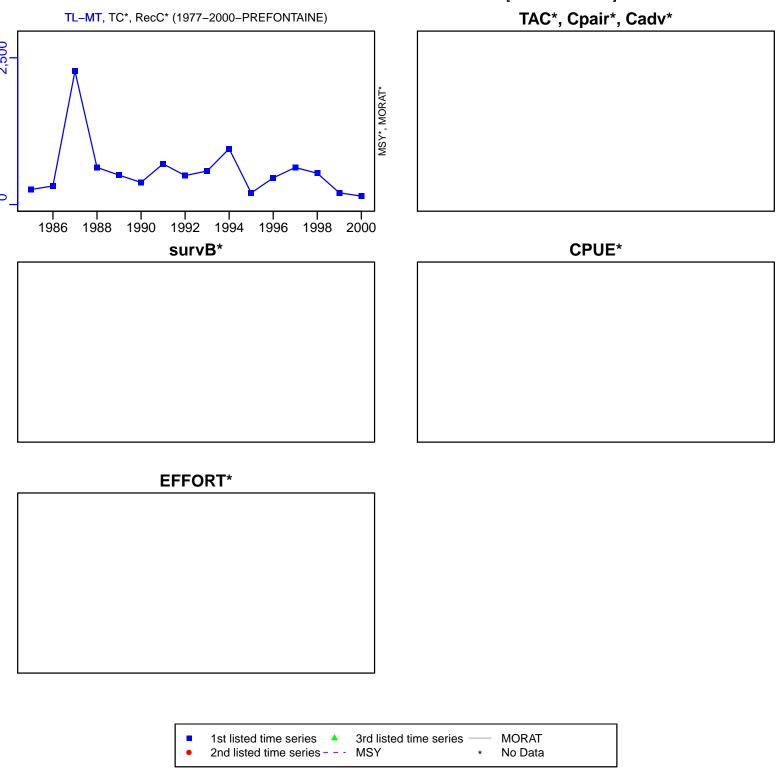
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2000	2590	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2000	0.05	-	-
TC	-	-	-		
TL	TL-MT	2000	126		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data



#### Monkfish Labrador Shelf - Grand Banks - St. Pierre Bank [MONK2J3KLNOPs]

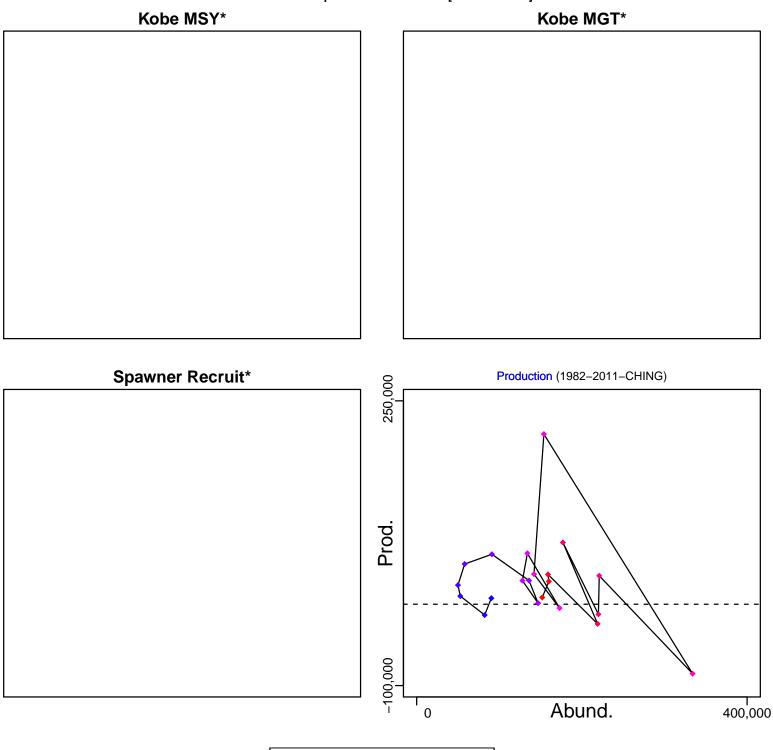


# Northern shrimp Canada-DFO-4RST [PANDAL4RST]

Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-PANDAL4RST-1965-2012-WATSON		
Area Gulf of St. Lawrence			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012, 2011		

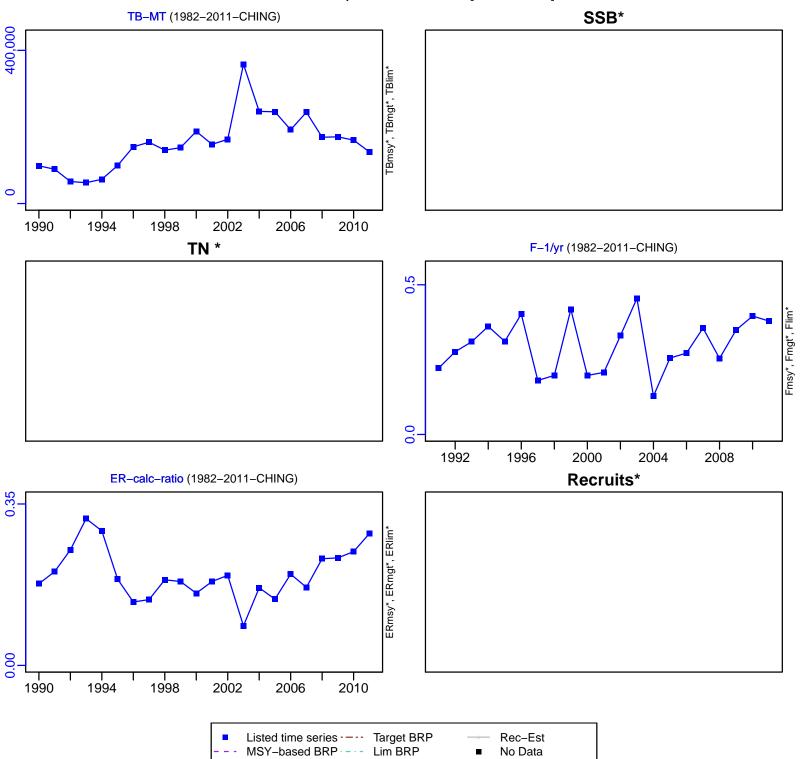
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	124,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.34	-	-
ER	ER-calc-ratio	2011	0.28	-	-
TC	TC-E00	2012	$6.01 \times 10^{9}$		
TL	TL-MT	2012	32,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

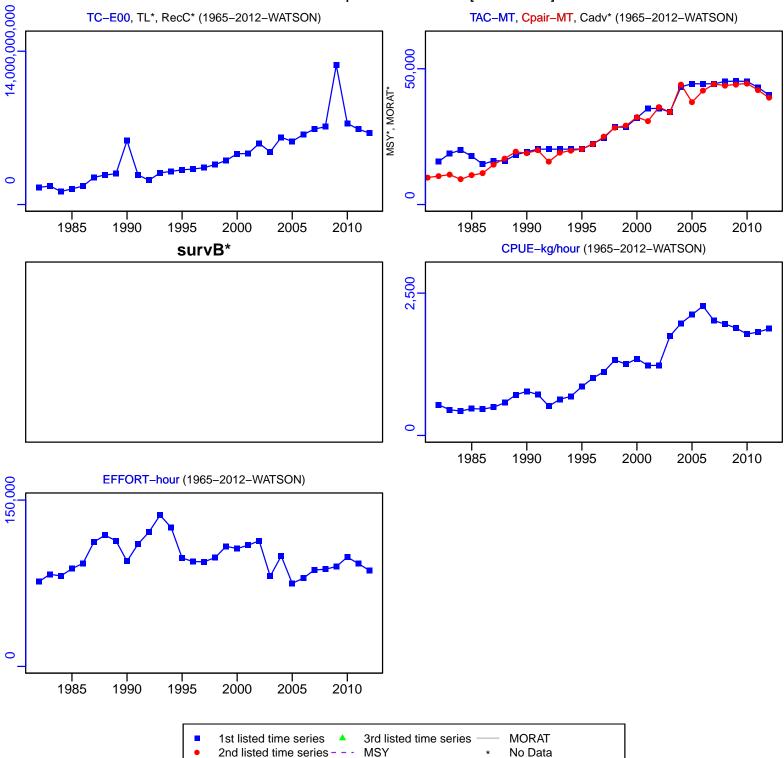


Start Year • End Year \* No Data

#### Northern shrimp Canada-DFO-4RST [PANDAL4RST]



### Northern shrimp Canada-DFO-4RST [PANDAL4RST]

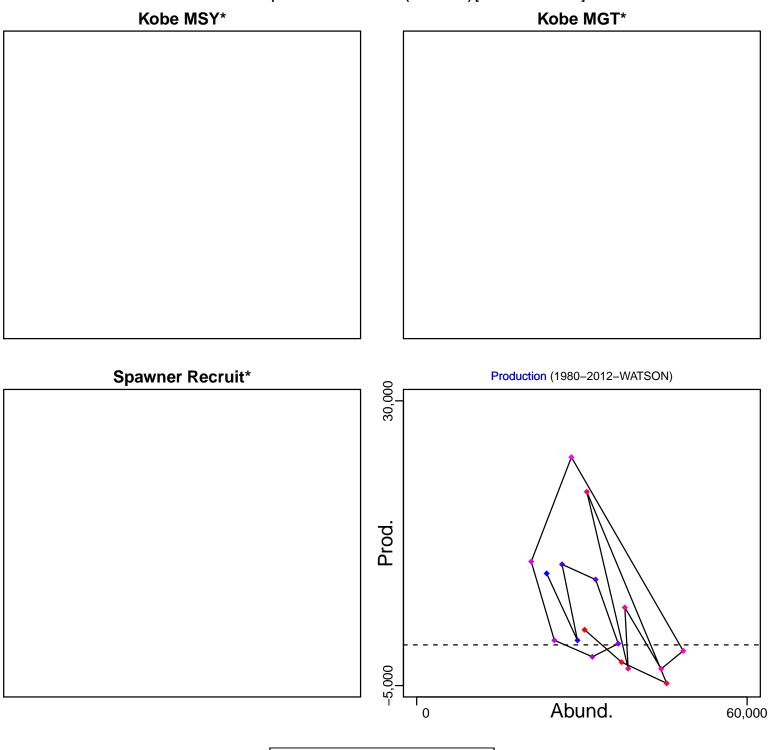


# Northern shrimp Eastern Scotian Shelf (SFA 13-15) [PANDALSFA13-15]

Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-PANDALSFA13-15-1980-2012-WATSON		
Area Eastern Scotian Shelf (SFA 13-15)			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2011, 2012		

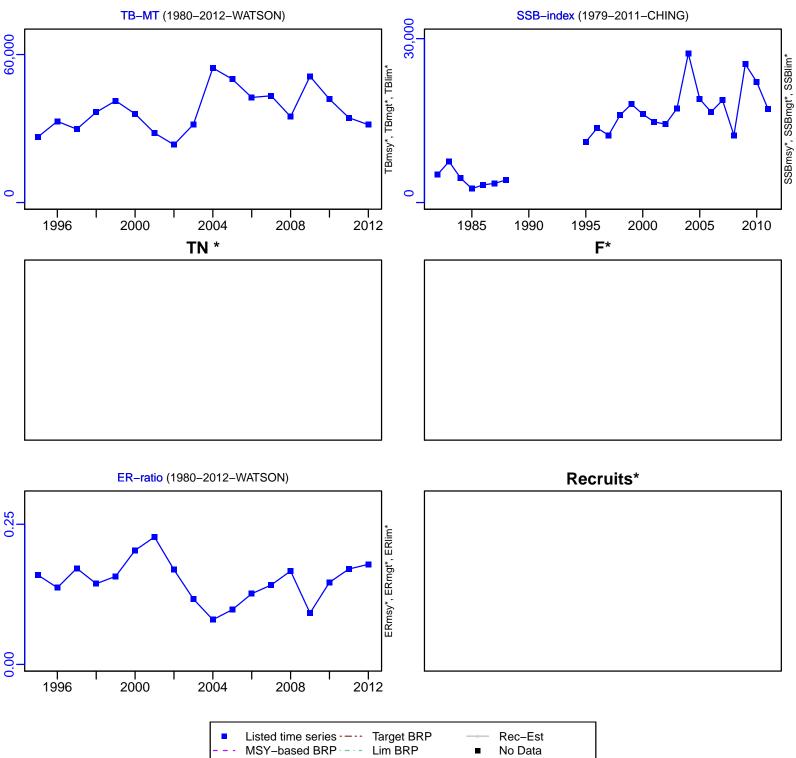
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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



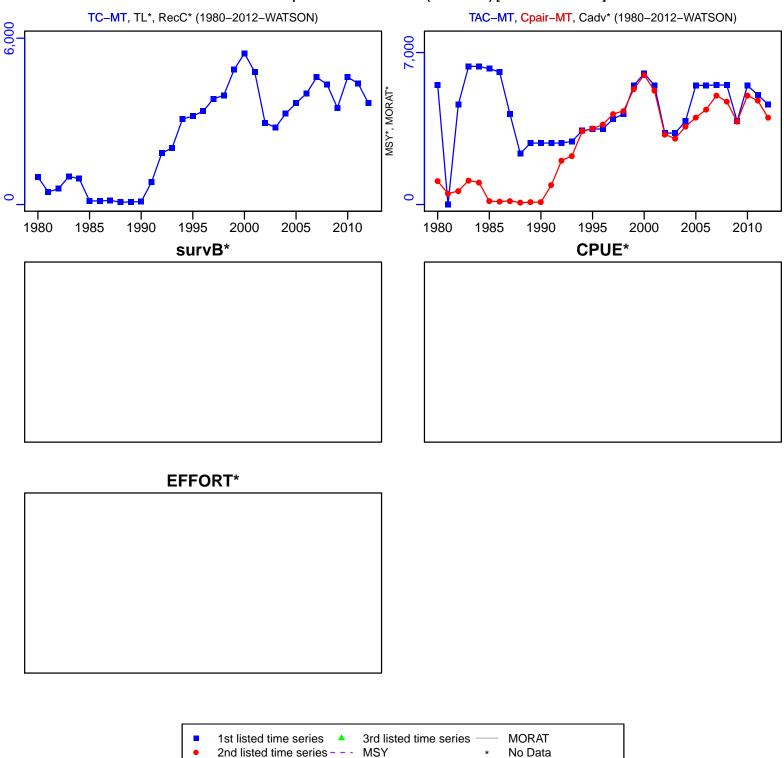
Start Year → End Year → No Data

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



No Data

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

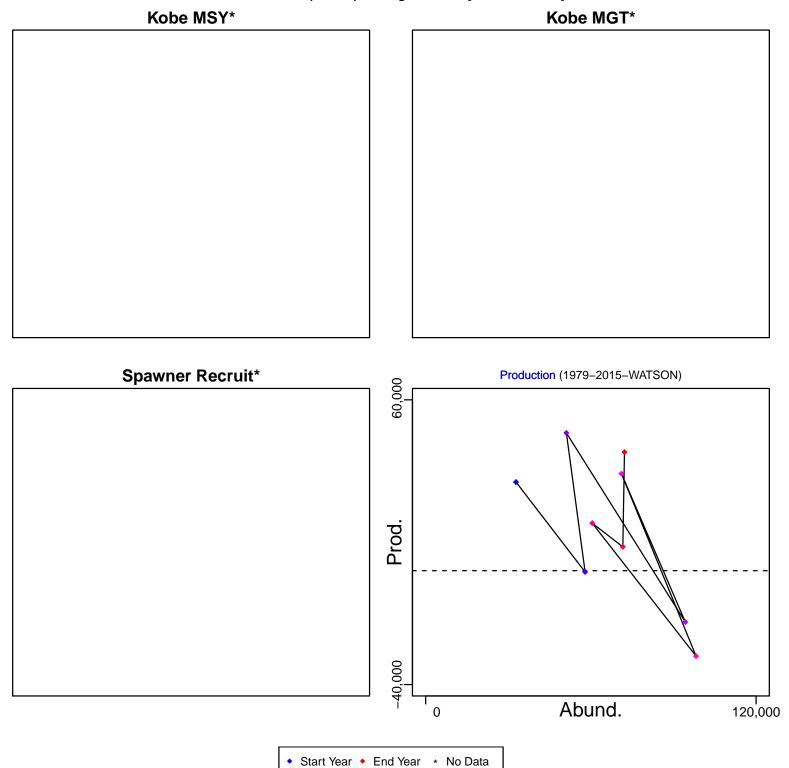


# Northern shrimp Shrimp Fishing Areas 2-3 [PANDALSFA2-3]

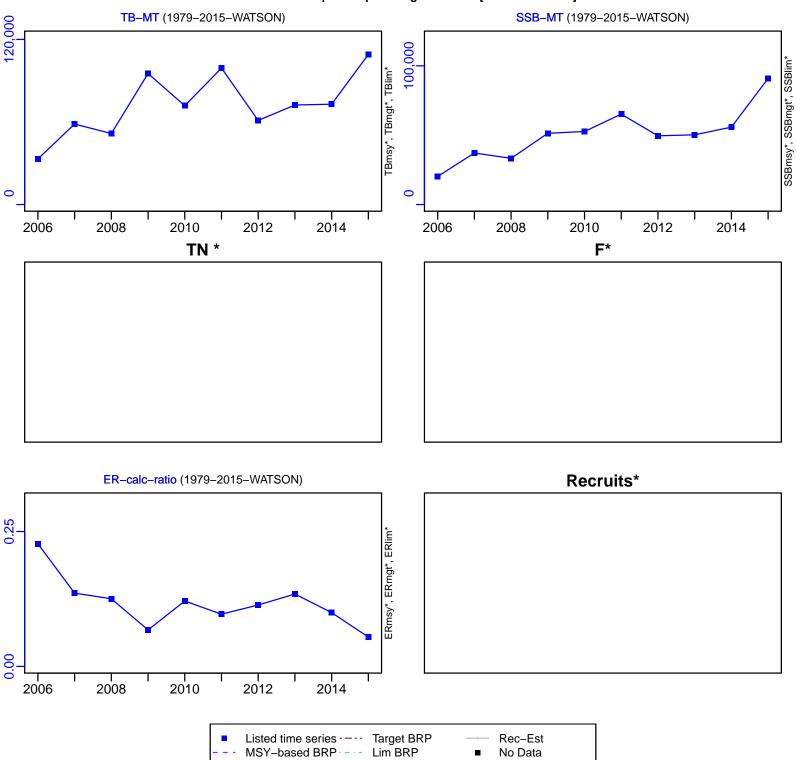
Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-ARCTIC-PANDALSFA2-3-1979-2015-WATSON		
Area	Shrimp Fishing Areas 2-3		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Arctic Region		
Asmts in RAM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

Reference Points				
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	TB-MT	2015	108,000	-	-
SSB	SSB-MT	2015	75,600	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2015	0.04	-	-
TC	TC-MT	2015	4760		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

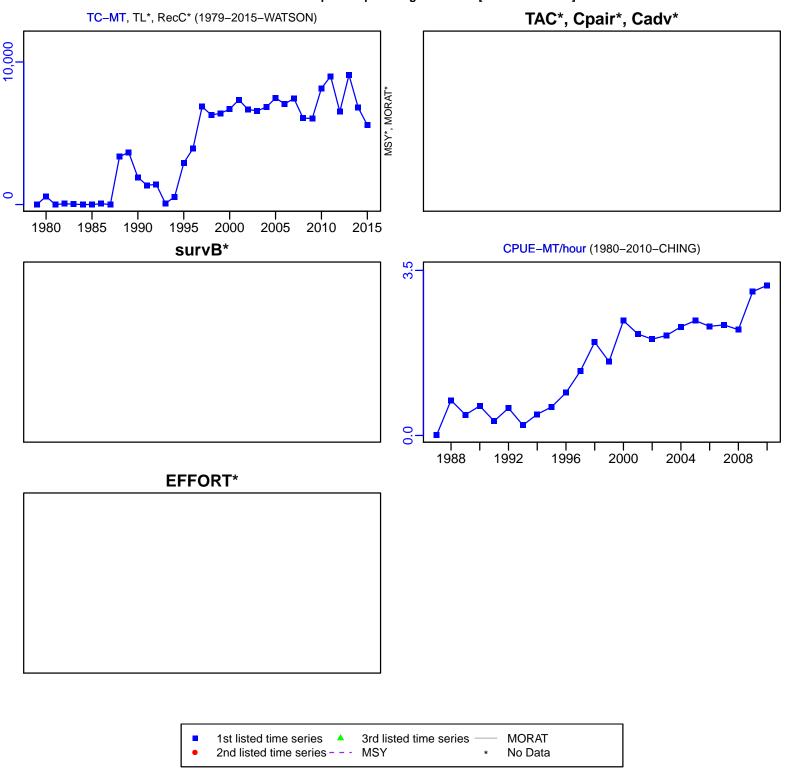


### Northern shrimp Shrimp Fishing Areas 2–3 [PANDALSFA2–3]



No Data

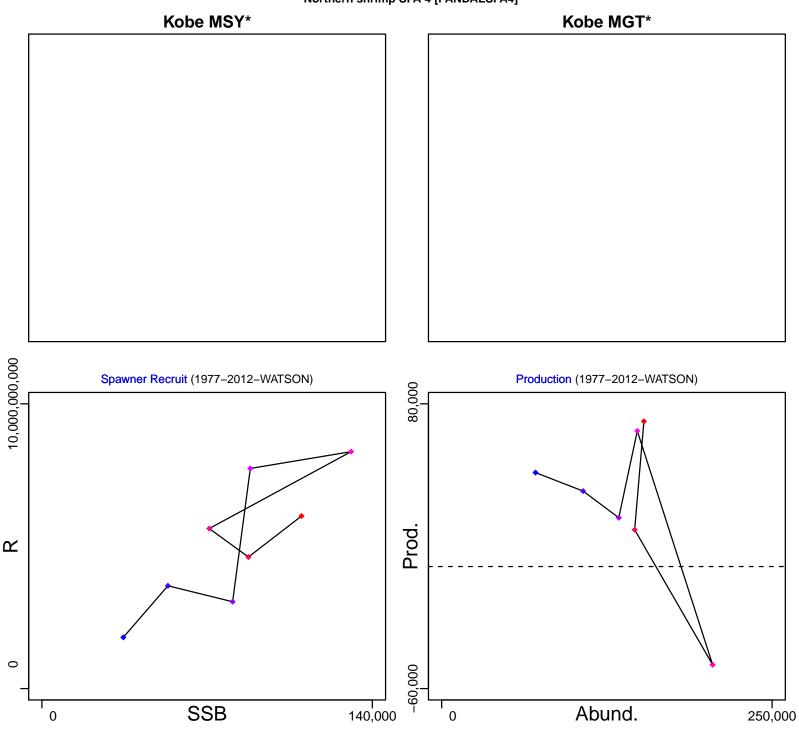
### Northern shrimp Shrimp Fishing Areas 2–3 [PANDALSFA2–3]



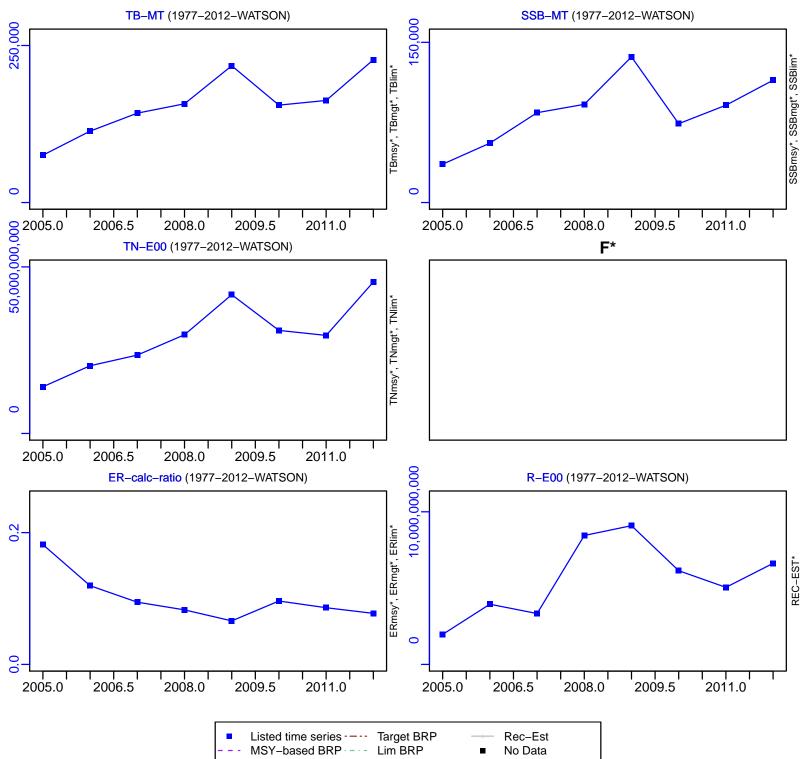
Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-PANDALSFA4-1977-2012-WATSON		
Area Shrimp Fishing Area 4			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

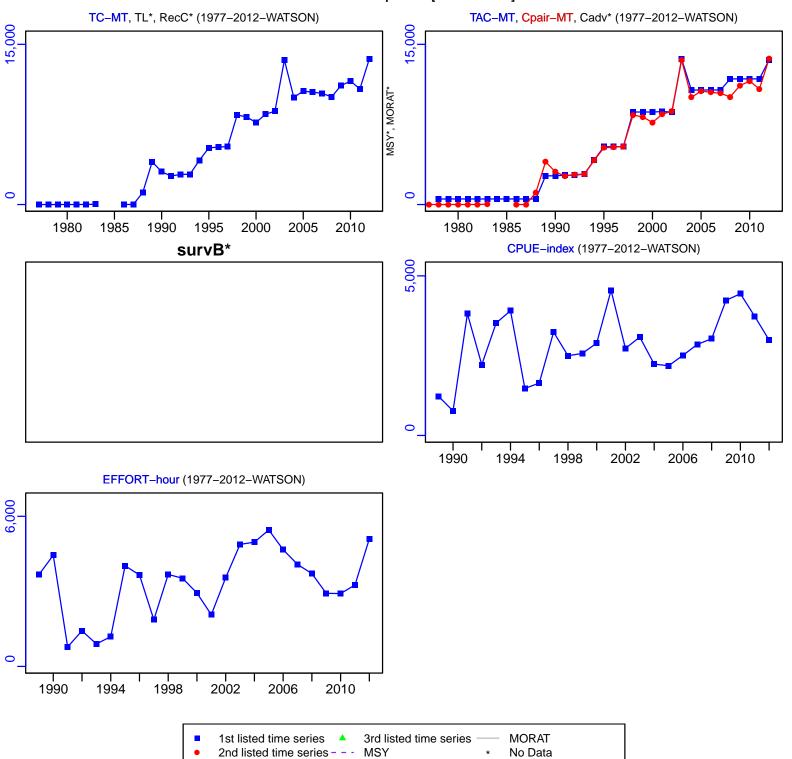
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2012	21,000		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	214,000	Both	-
SSB	SSB-MT	2012	110,000	-	-
TN	TN-E00	2012	$4.54 \times 10^{10}$	-	-
R	R-E00	2012	$6.06 \times 10^{9}$	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.06	-	-
TC	TC-MT	2012	13,100		
TL	-	-	-	]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

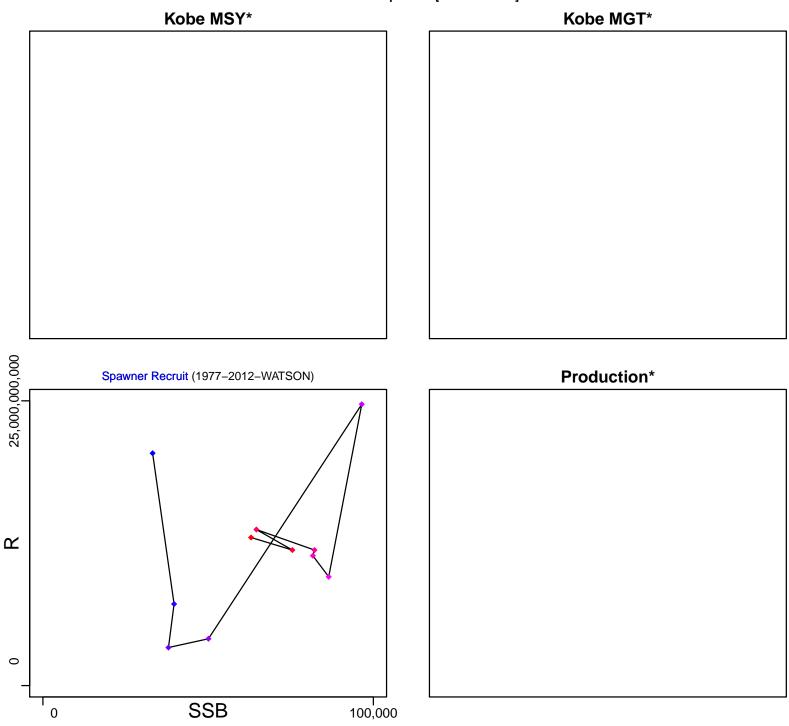




Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-PANDALSFA5-1977-2012-WATSON		
Area	Shrimp Fishing Area 5		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

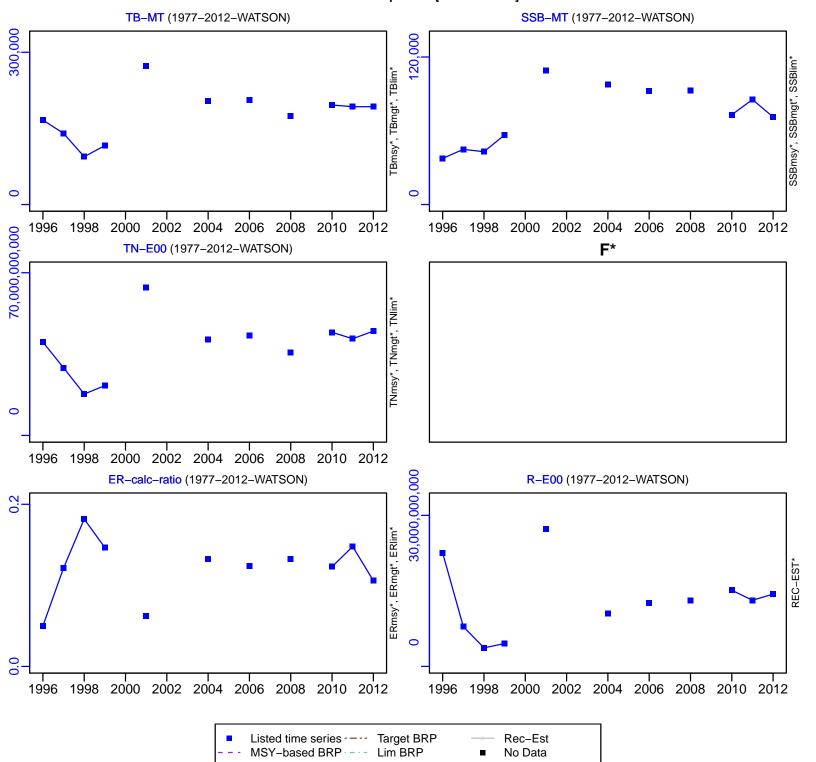
Reference Points				
Туре	ID	Value		
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2012	14,300	
Flim	-	-	-	
ERlim	-	-	-	

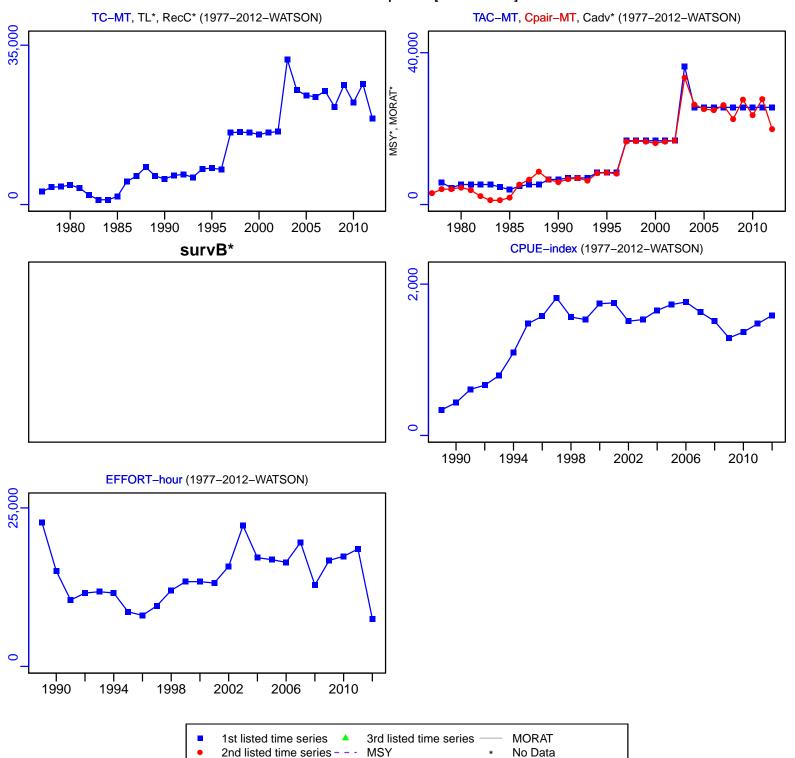
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	176,000	Both	-
SSB	SSB-MT	2012	63,000	-	-
TN	TN-E00	2012	$4.38 \times 10^{10}$	-	-
R	R-E00	2012	$1.3 \times 10^{10}$	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.1	-	-
TC	TC-MT	2012	18,100		
TL	-	-	-	]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year \* No Data

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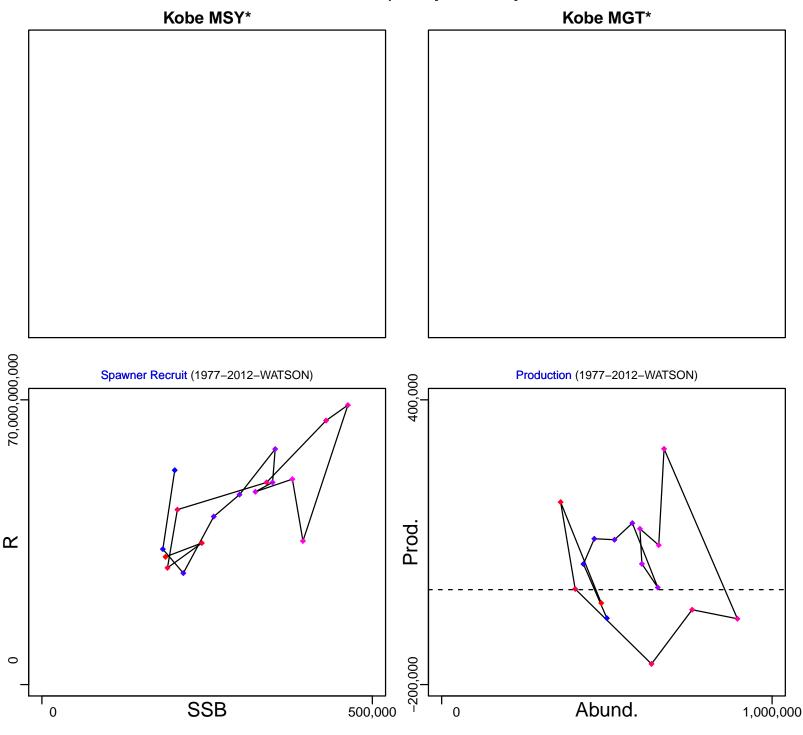




Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-PANDALSFA6-1977-2012-WATSON		
Area	Shrimp Fishing Area 6		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2012		

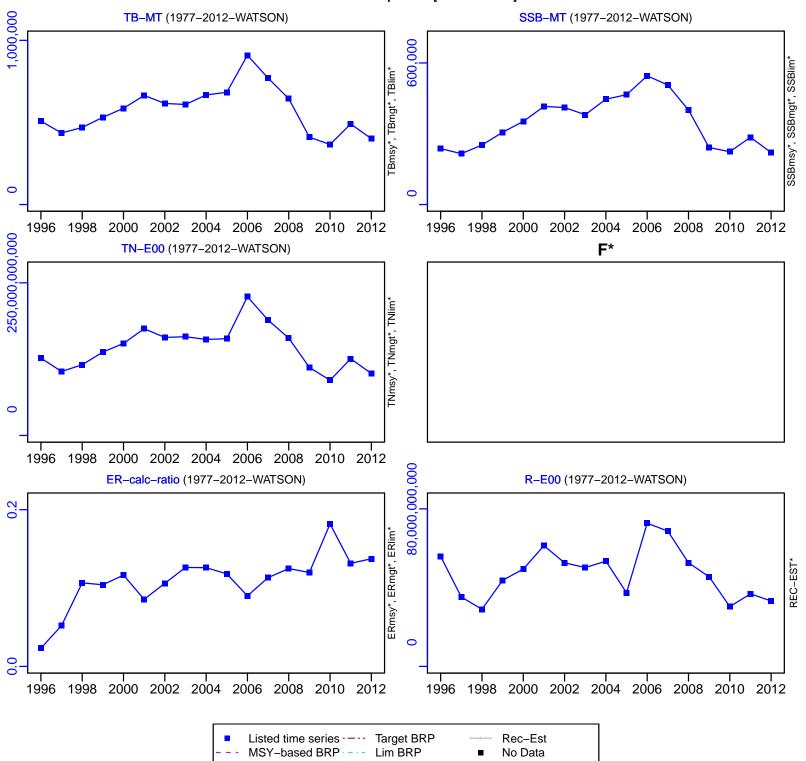
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2012	79,600	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2012	395,000	Both	-
SSB	SSB-MT	2012	187,000	-	-
TN	TN-E00	2012	$9.29 \times 10^{10}$	-	-
R	R-E00	2012	$3.14 \times 10^{10}$	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.13	-	-
TC	TC-MT	2012	51,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

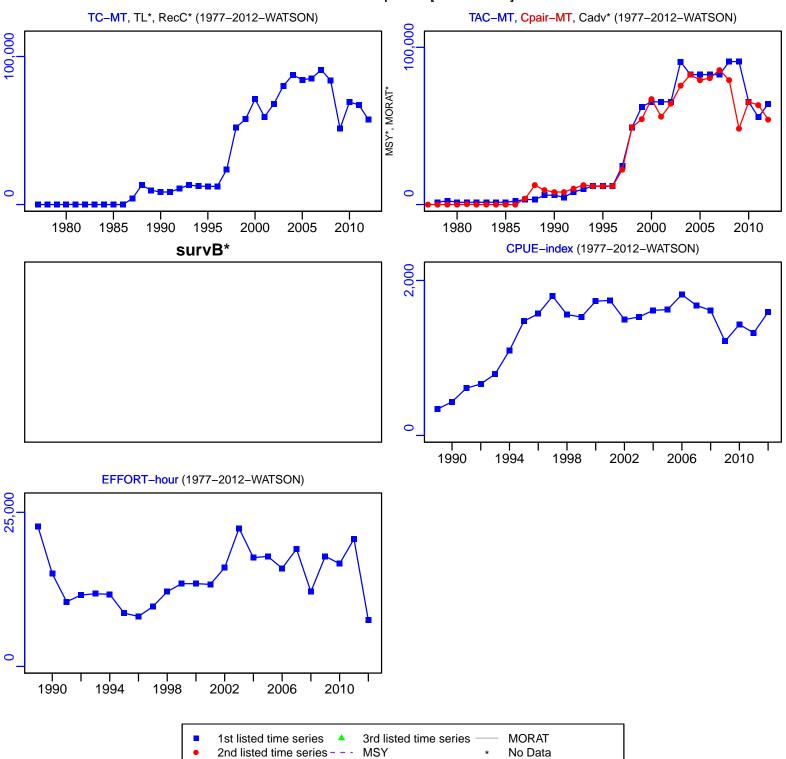


Start Year → End Year → No Data

#### Northern shrimp SFA 6 [PANDALSFA6]



## Northern shrimp SFA 6 [PANDALSFA6]



Metadata			
Scientific Name	Pollachius virens		
Current Assess ID DFO-NFLD-POLL3Ps-1960-2013-OSGOOD			
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	2013		

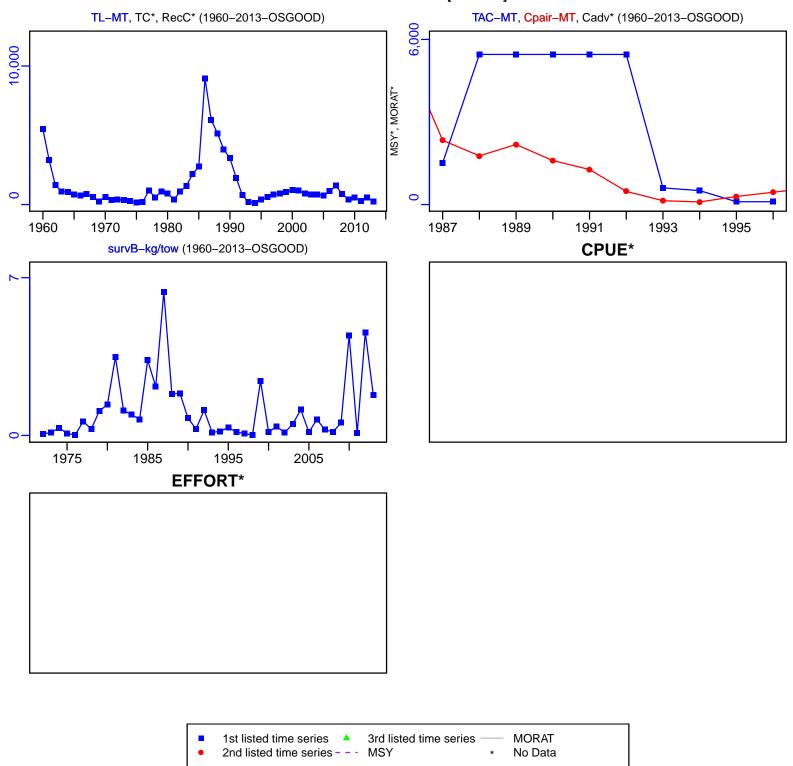
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	184		
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*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



Metadata		
Scientific Name	Pollachius virens	
Current Assess ID DFO-MAR-POLL4VWX-1982-2011-OSGOOD		
Area Scotian Shelf and Bay of Fundy		
Management Authority   Department of Fisheries and Oceans, Canada national manager		
Assessor Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2011	

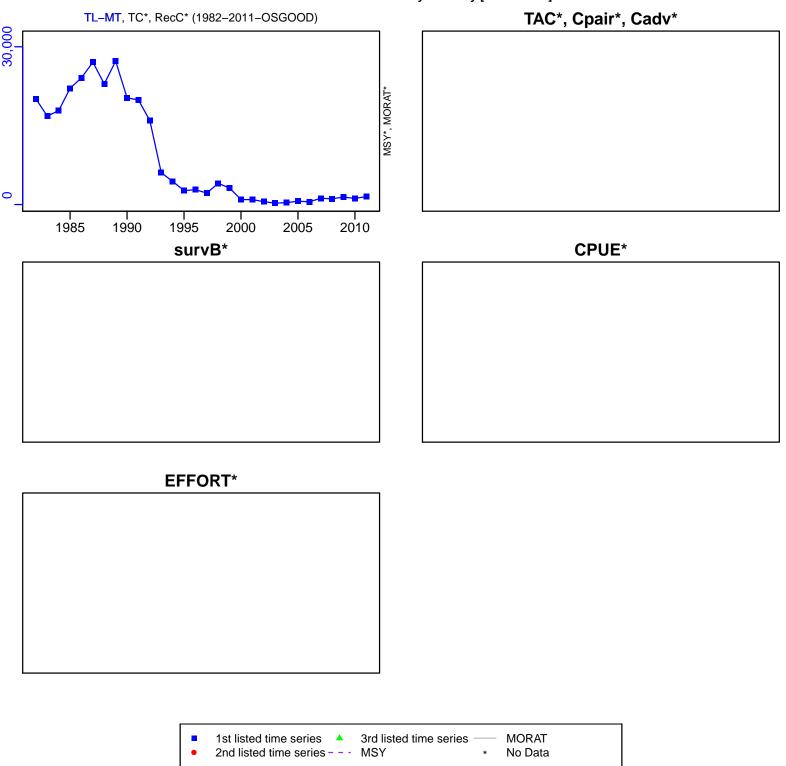
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	1430		
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*
Th! *	<b>-</b> +
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	
	arget BRP Rec-Est

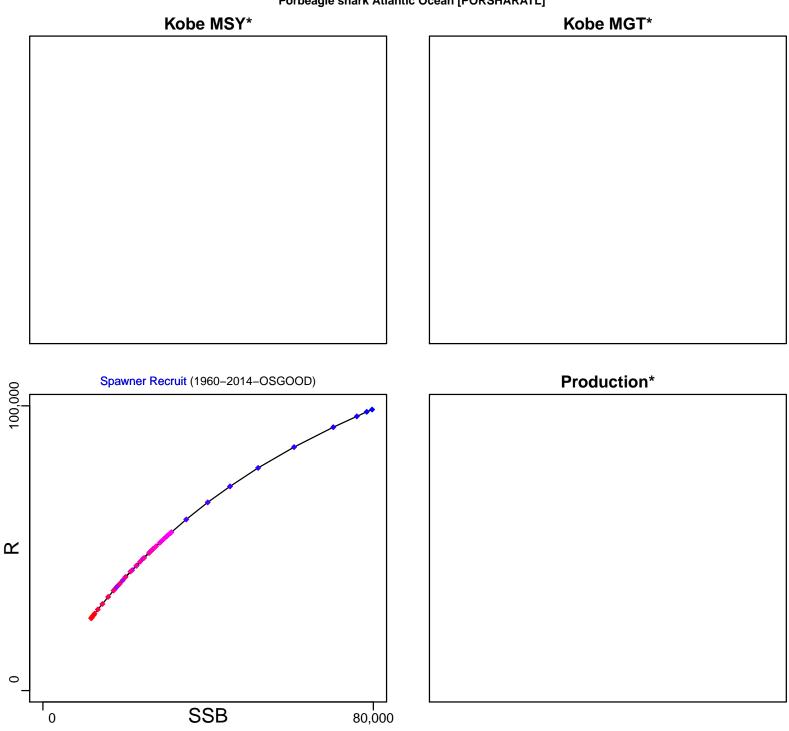


# Porbeagle shark Atlantic Ocean [PORSHARATL]

Metadata		
Scientific Name	Lamna nasus	
Current Assess ID DFO-PORSHARATL-1960-2014-OSGOOD		
Area Canadian Atlantic Ocean		
Management Authority   Department of Fisheries and Oceans, Canada national managem		
Assessor Department of Fisheries and Oceans		
Asmts in RAM	2014	

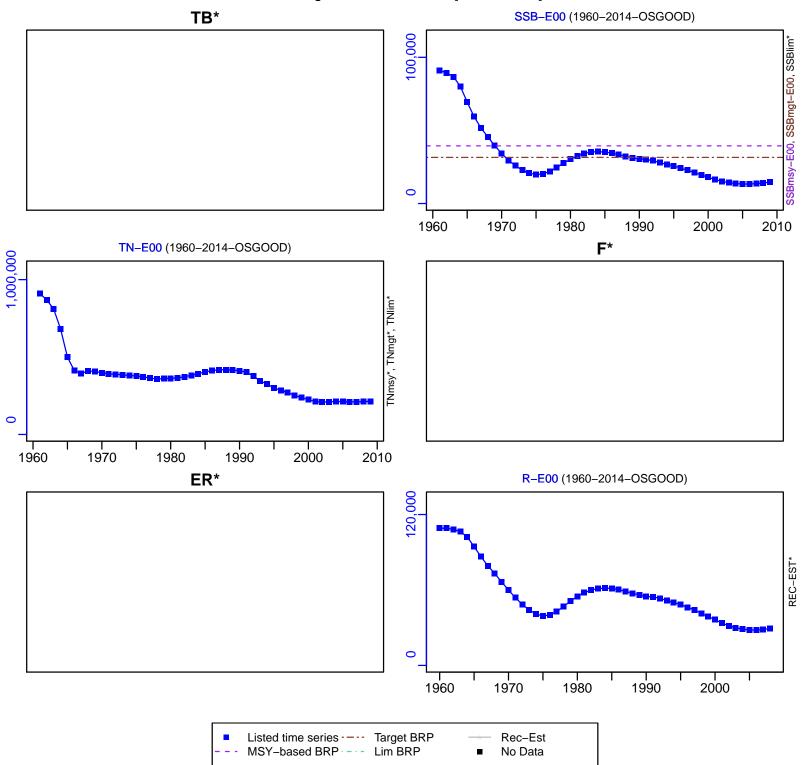
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-E00	2014	34,573		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	SSBmgt-E00	2014	27,658		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-E00	2014	12,900	-	-
TN	TN-E00	2014	199,000	Both	-
R	R-E00	2014	26,500	Both	1
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	81		
TL	TL-MT	2014	9		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-E00/SSBmsy-E00	2014	0.37		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2014	0.47		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

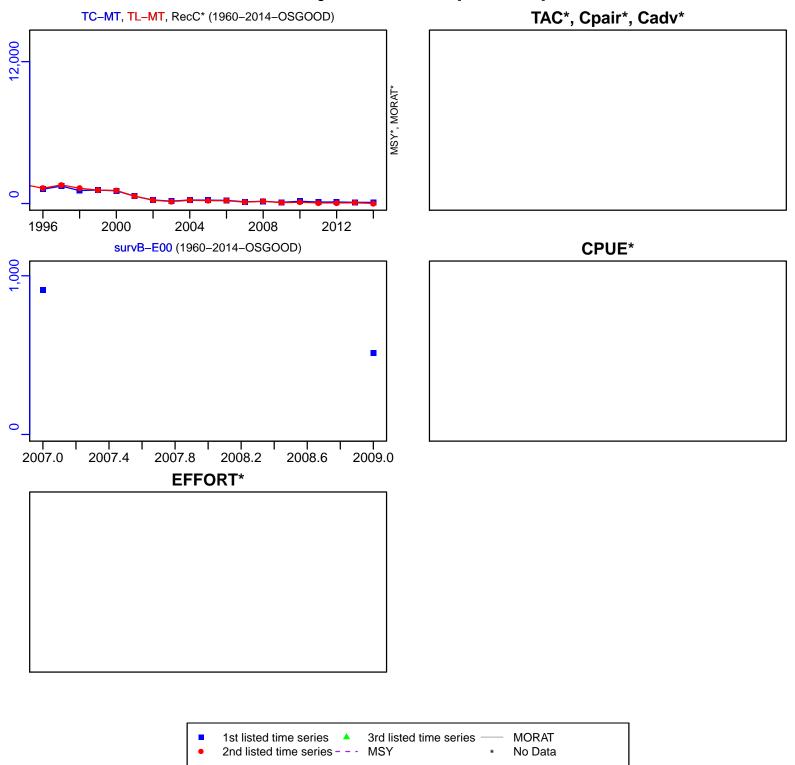


Start Year ◆ End Year \* No Data

### Porbeagle shark Atlantic Ocean [PORSHARATL]



### Porbeagle shark Atlantic Ocean [PORSHARATL]

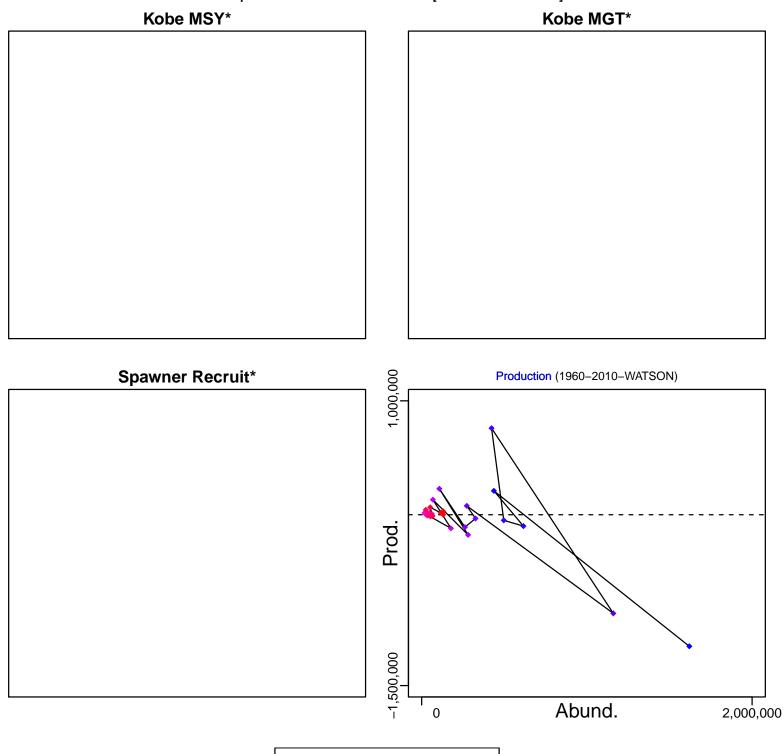


# Deepwater redfish NAFO-2J3K-3LNO [REDDEEP2J3K-3LNO]

Metadata				
Scientific Name	Sebastes mentella			
Current Assess ID	DFO-REDDEEP2J3K-3LNO-1960-2010-WATSON			
Area	NAFO Divisions 2J3K-3LNO			
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2010			

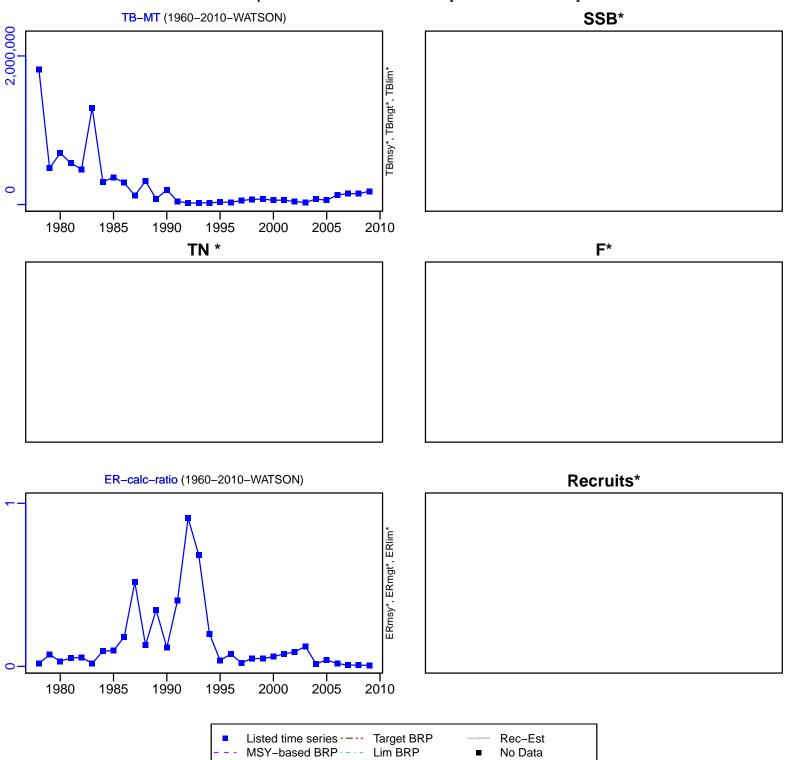
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	22,000		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	159,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.01	-	-
TC	TC-MT	2010	1000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



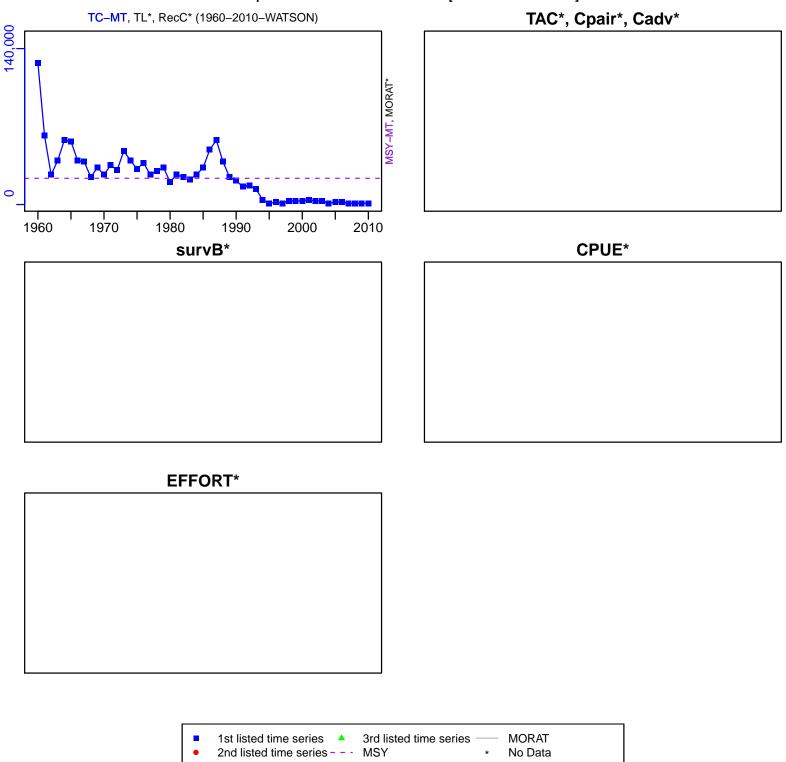
Start Year • End Year \* No Data

### Deepwater redfish NAFO-2J3K-3LNO [REDDEEP2J3K-3LNO]



No Data

# Deepwater redfish NAFO-2J3K-3LNO [REDDEEP2J3K-3LNO]

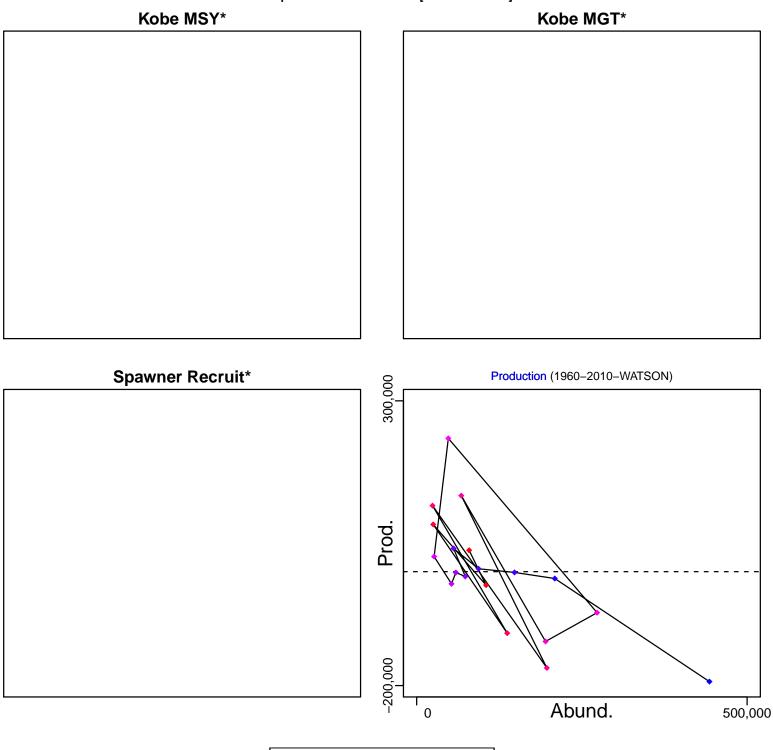


# Deepwater redfish Units 1-2 [REDDEEPUT12]

Metadata				
Scientific Name	Sebastes mentella			
Current Assess ID	DFO-REDDEEPUT12-1960-2010-WATSON			
Area	Units 1 and 2			
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor Department of Fisheries and Oceans				
Asmts in RAM	2010			

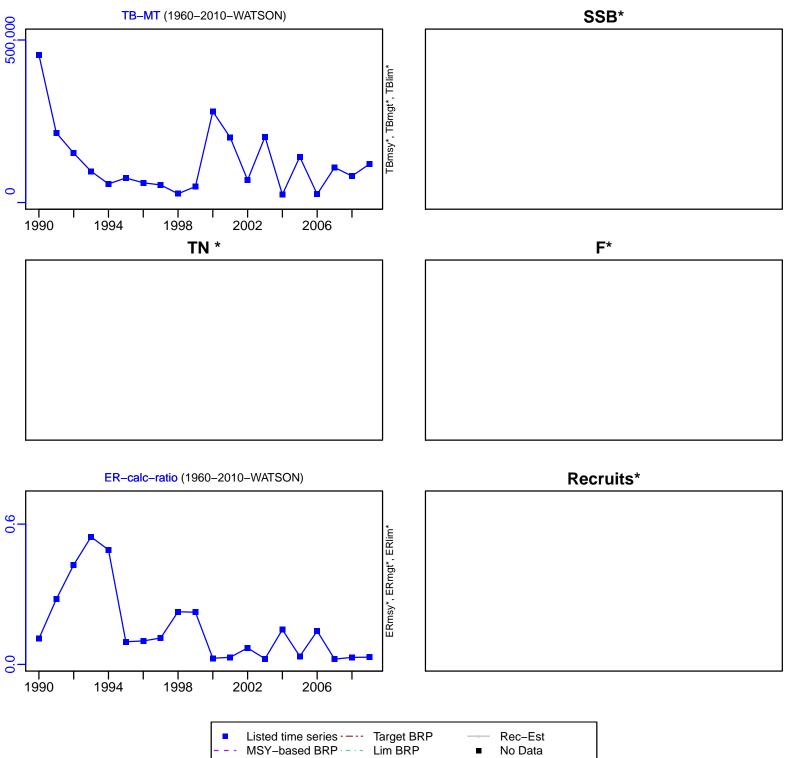
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	21,000		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	115,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.03	-	-
TC	TC-MT	2010	3000		
TL	-	-	-		
TB/TBmsy	-	-	-	1	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-	]	
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-	]	



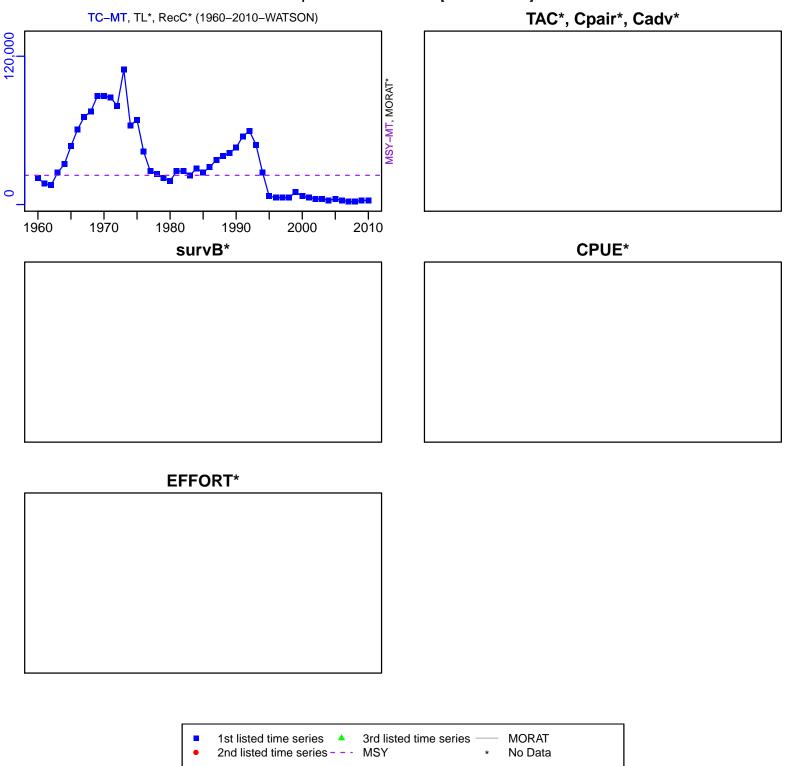
Start Year • End Year \* No Data

### Deepwater redfish Units 1-2 [REDDEEPUT12]



No Data

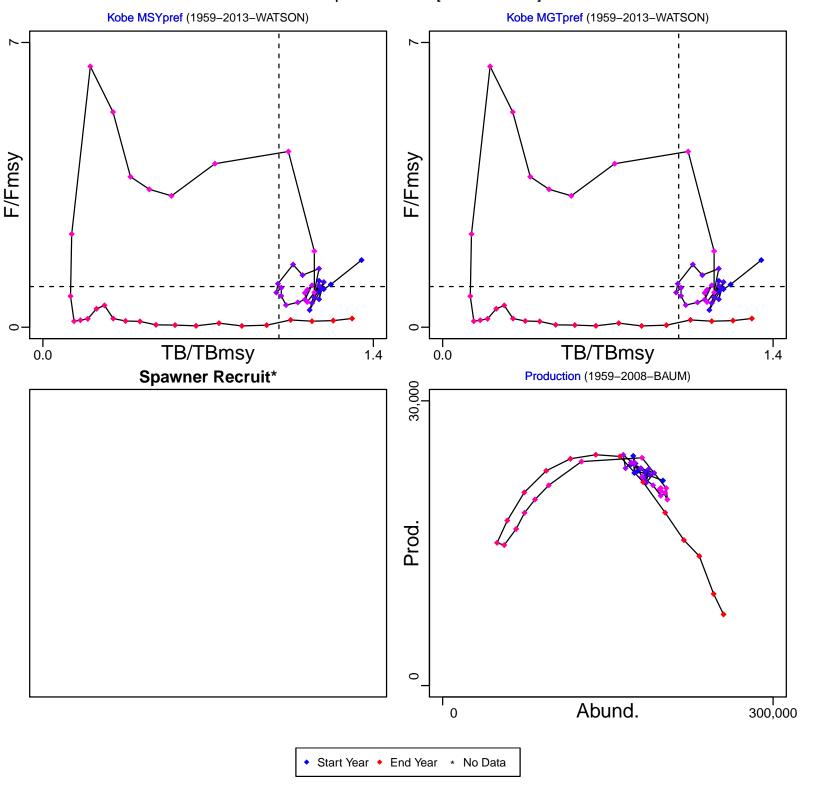
## Deepwater redfish Units 1–2 [REDDEEPUT12]

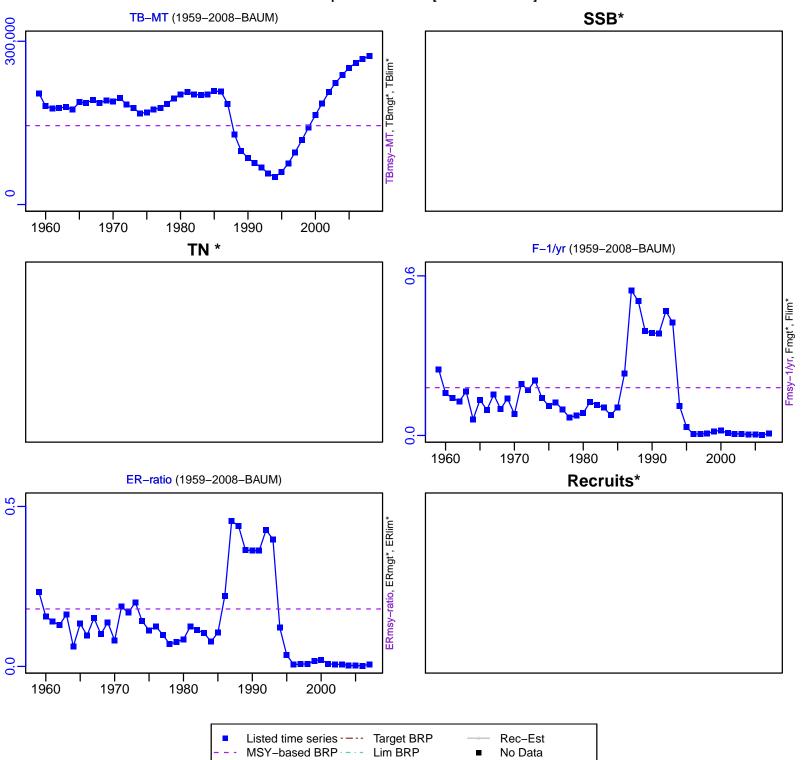


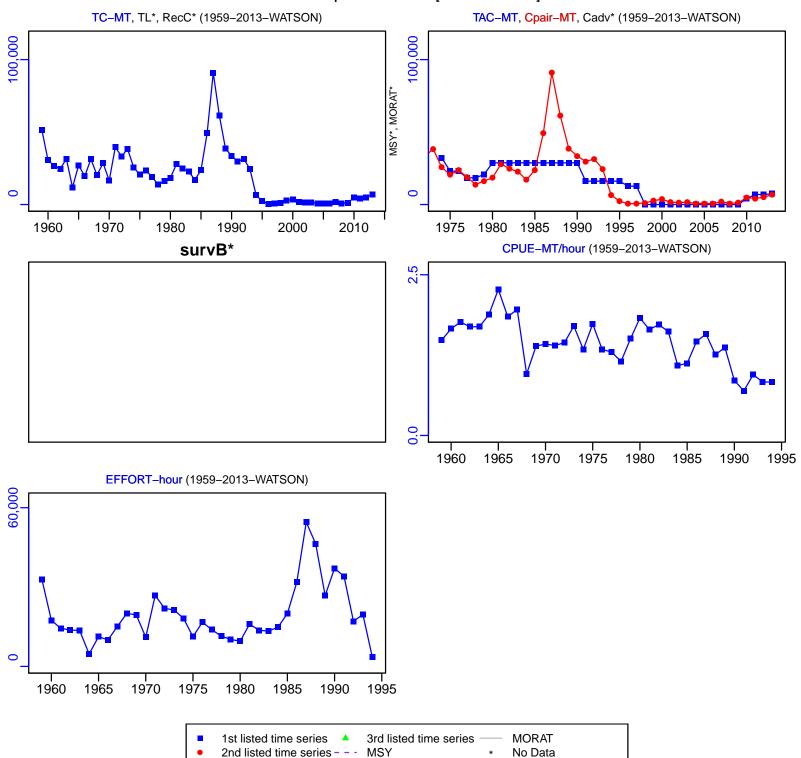
Metadata				
Scientific Name	Sebastes spp			
Current Assess ID	NAFO-SC-REDFISHSPP3LN-1959-2013-WATSON			
Area N and SW Grand Banks				
Management Authority Northwest Atlantic Fisheries Organization				
Assessor	NAFO Scientific Council			
Asmts in RAM	2008, 2013			

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	TBmsy-MT	2008	141,900		
SSBmsy	-	-	-		
Fmsy	Fmsy-1/yr	2008	0.17		
ERmsy	ERmsy-ratio	2008	0.17		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2008	24,440		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	267,000	-	ALL AGES
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2008	0.01	Both	-
ER	ER-ratio	2008	0.01	-	-
TC	TC-MT	2013	6000		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.31		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2013	0.21		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.04		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



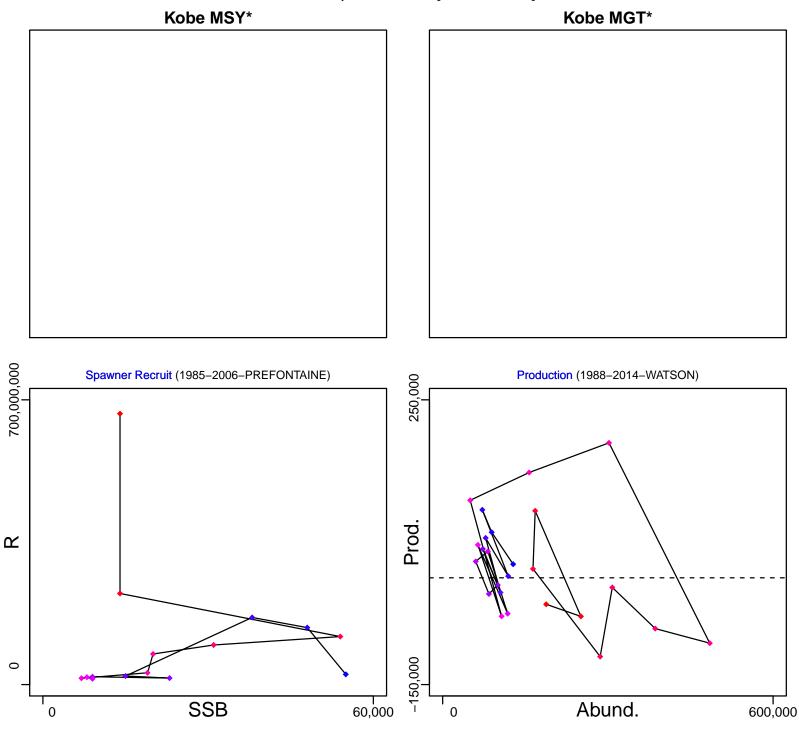




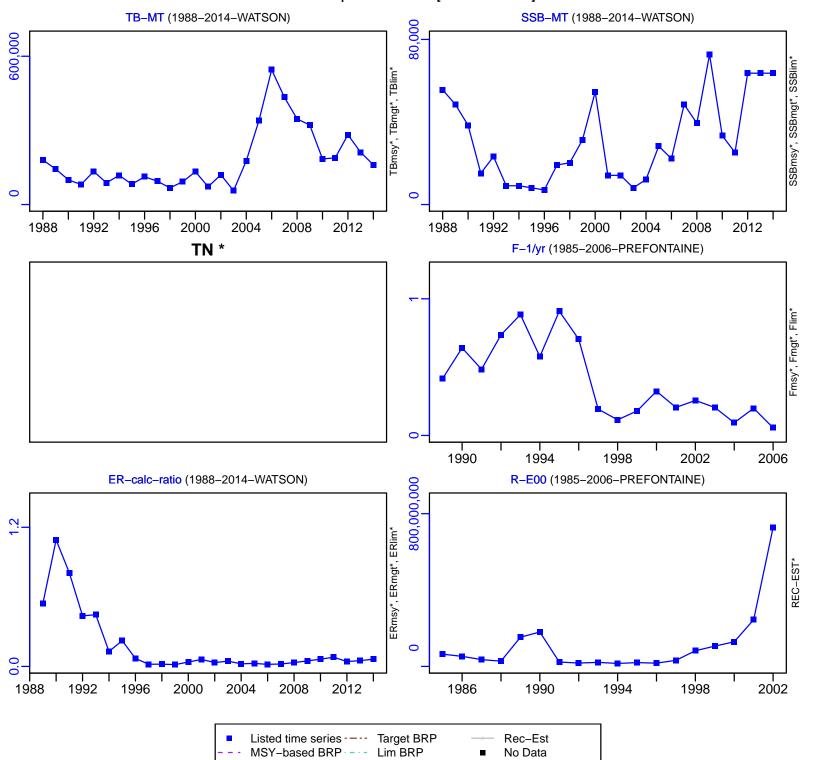
Metadata				
Scientific Name	Sebastes spp			
Current Assess ID NAFO-SC-REDFISHSPP3M-1988-2014-WATS				
Area Flemish Cap				
Management Authority Northwest Atlantic Fisheries Organization				
Assessor NAFO Scientific Council				
Asmts in RAM 2006, 2014				

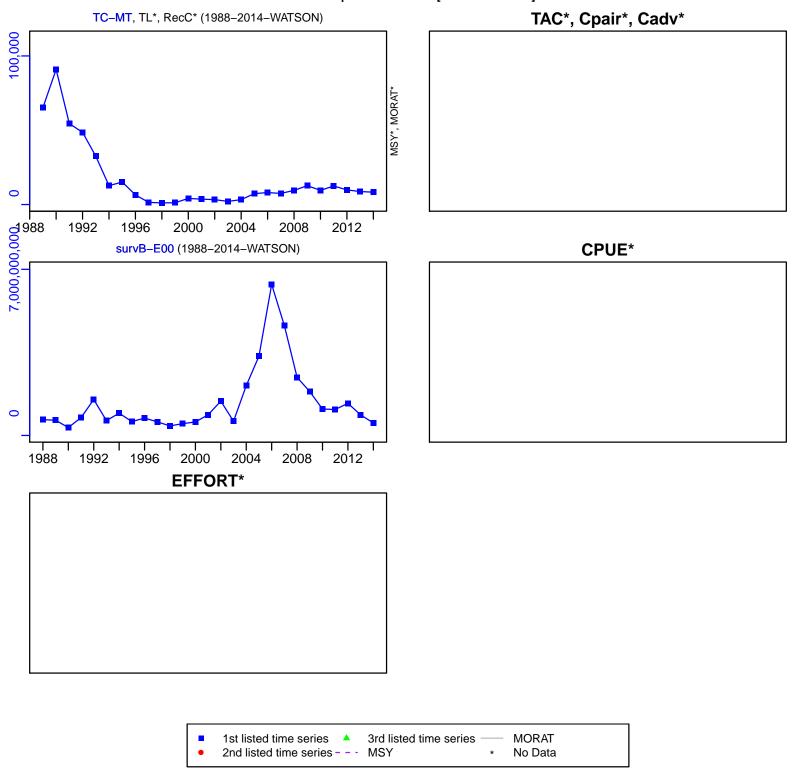
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2006	0.1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

		Time Series	3		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	143,000	Both	-
SSB	SSB-MT	2014	63,000	Females	13+
TN	-	-	-	-	-
R	R-E00	2006	$6.66 \times 10^{8}$	-	4
F	F-1/yr	2006	0.05	-	6 to 16
ER	ER-calc-ratio	2014	0.05	-	-
TC	TC-MT	2014	7400		
TL	TL-MT	2006	4120		
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	Sebastes spp
Current Assess ID	DFO-QUE-REDFISHSPP3Pn4RSTVn-1953-2000-PREFONTAINE
Area	Gulf of St. Lawrence and Cabot Strait
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Quebec Region
Asmts in RAM	2000

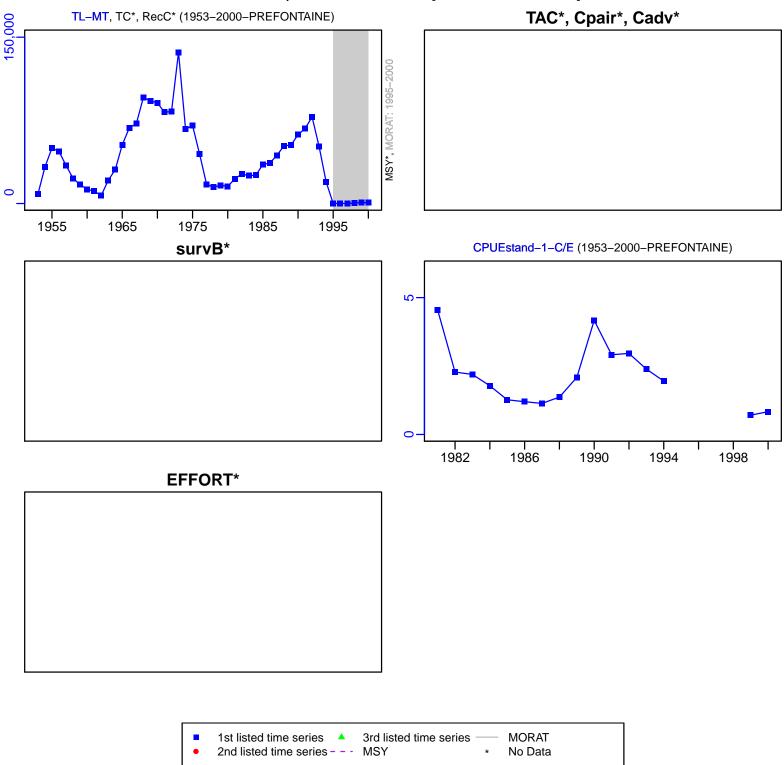
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

		Time Series	<b>)</b>		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	•	-	-	-	-
F	1	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2000	764		
TB/TBmsy	•	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	ı	-	-		
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*
FD.	D 14 . W
ER*	Recruits*
- Linkad Since Carlos T	proof PDD Pos Fot
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data



# Rock crab Southern Gulf of St. Lawrence [ROCKCRABLFA23-26]

	Metadata
Scientific Name	Cancer irroratus
Current Assess ID	DFO-SG-ROCKCRABLFA23-26-1985-2010-OSGOOD
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	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	-	-	-		
TL	TL-MT	2010	4520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

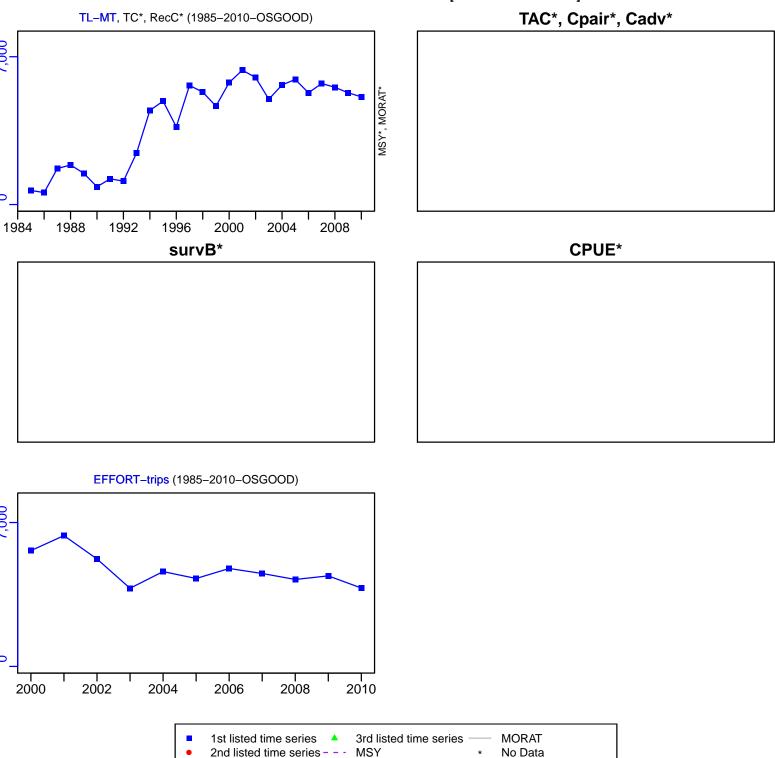
### Rock crab Southern Gulf of St. Lawrence [ROCKCRABLFA23-26]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

Start Year ◆ End Year \* No Data

## Rock crab Southern Gulf of St. Lawrence [ROCKCRABLFA23-26]

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



Metadata	
Scientific Name	Cancer irroratus
Current Assess ID	DFO-QUE-ROCKCRABQCW-1998-2012-OSGOOD
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	2012

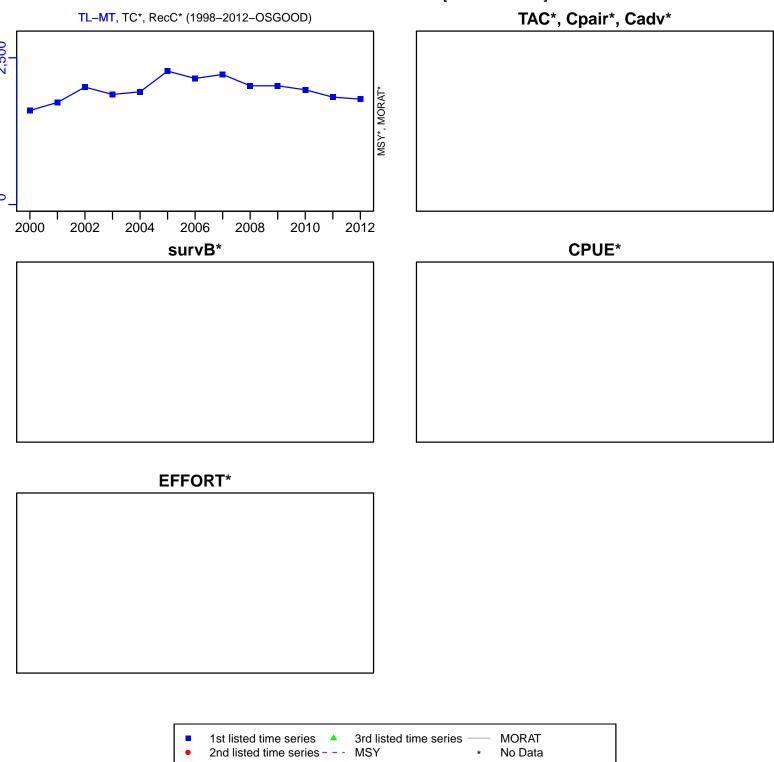
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	1580		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

TB*	SSB*
Th! *	<b>-</b> +
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	
	arget BRP Rec-Est



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

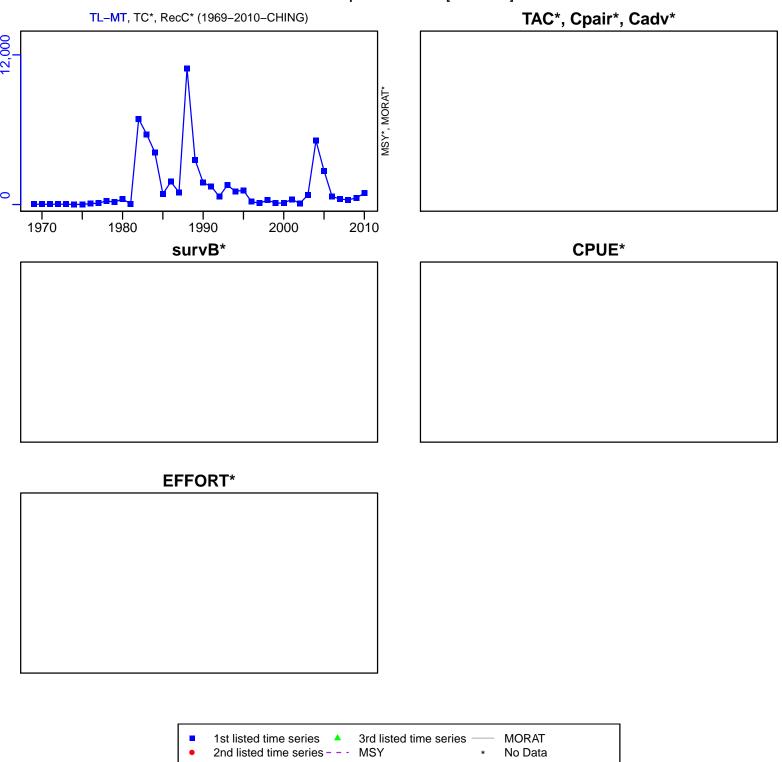
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	•	-	-	-	-
F	1	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	813		
TB/TBmsy	•	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	ı	-	-		
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*
ER	Reciuits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	m BRP ■ No Data



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

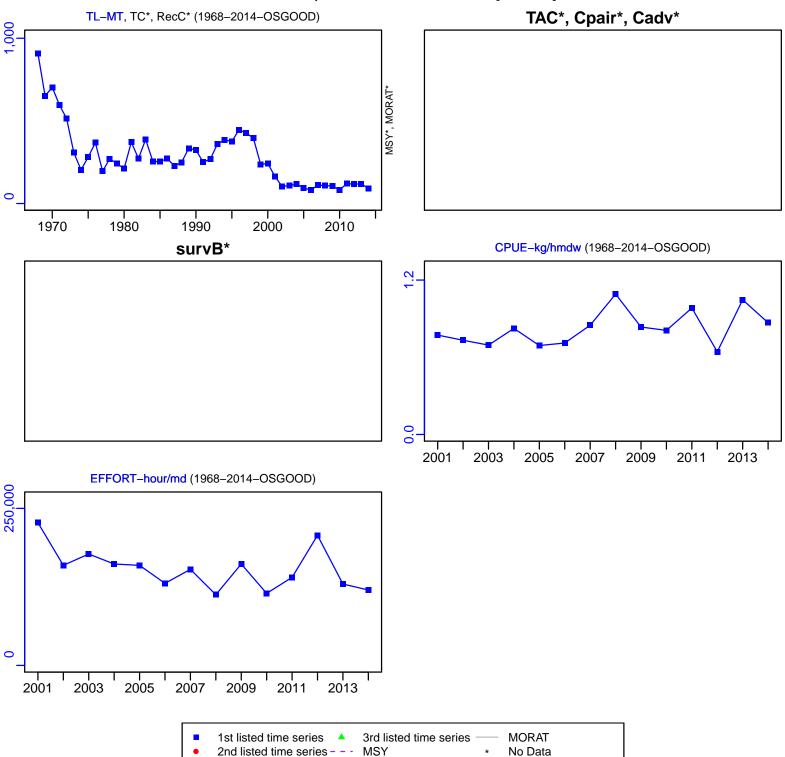
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim		-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	-	-	-	-	-	
TN	-	-	-	-	-	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	-	-	-			
TL	TL-MT	2014	91			
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*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

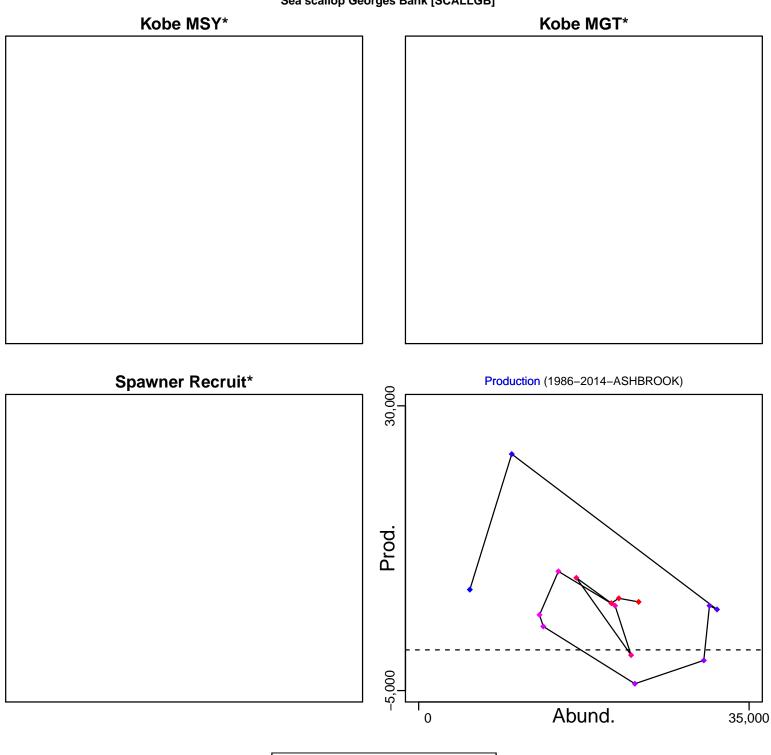


# Sea scallop Georges Bank [SCALLGB]

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		

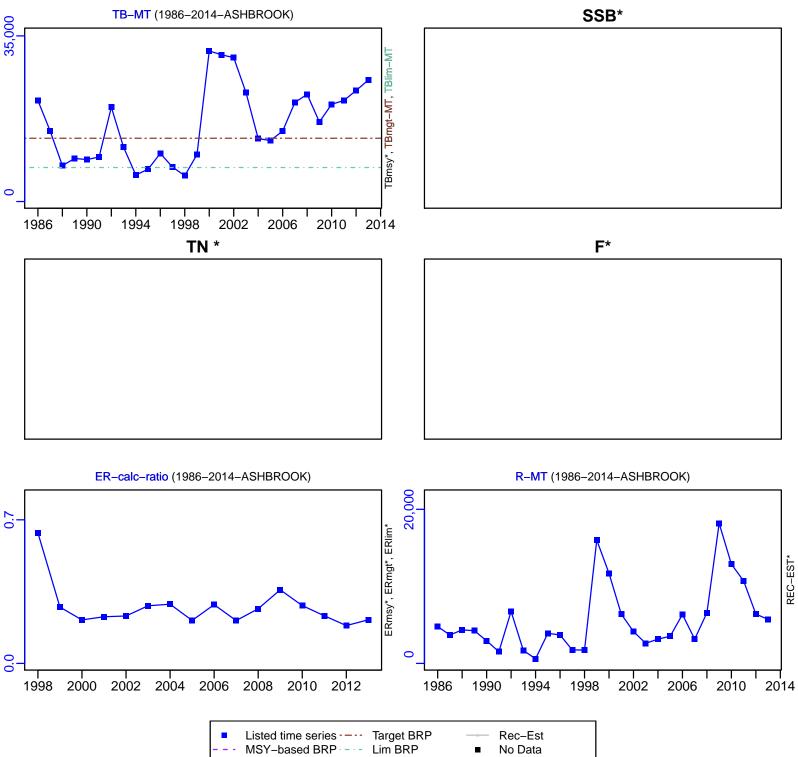
Reference Points					
Туре	ID Asmt Year Valu				
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	TBmgt-MT	2014	13,284		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2014	0.16		
TBlim	TBlim-MT	2014	7137		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	0.18	-	-
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	-	-	-		



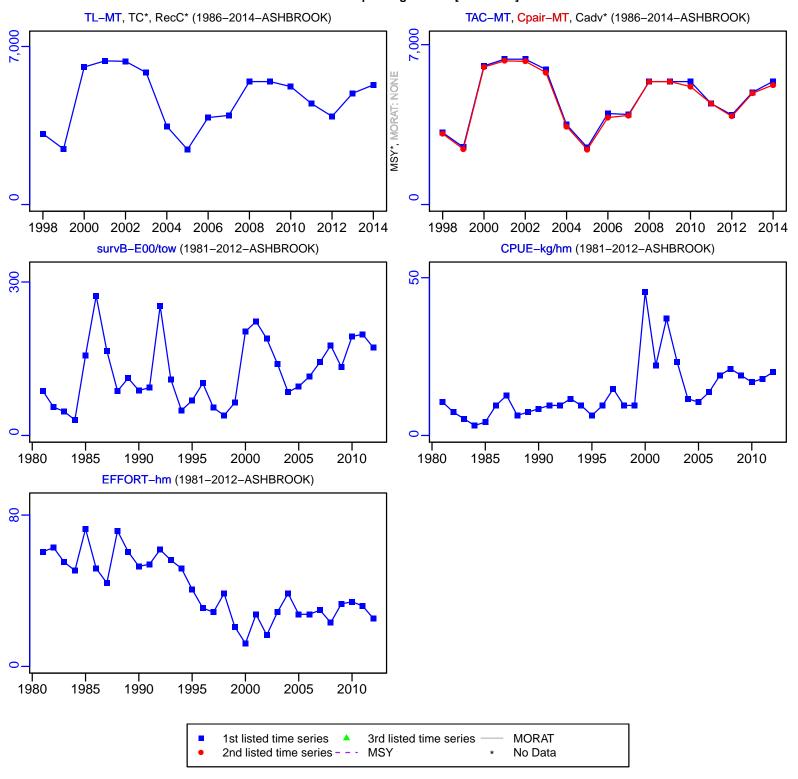
Start Year → End Year → No Data

#### Sea scallop Georges Bank [SCALLGB]



No Data

#### Sea scallop Georges Bank [SCALLGB]

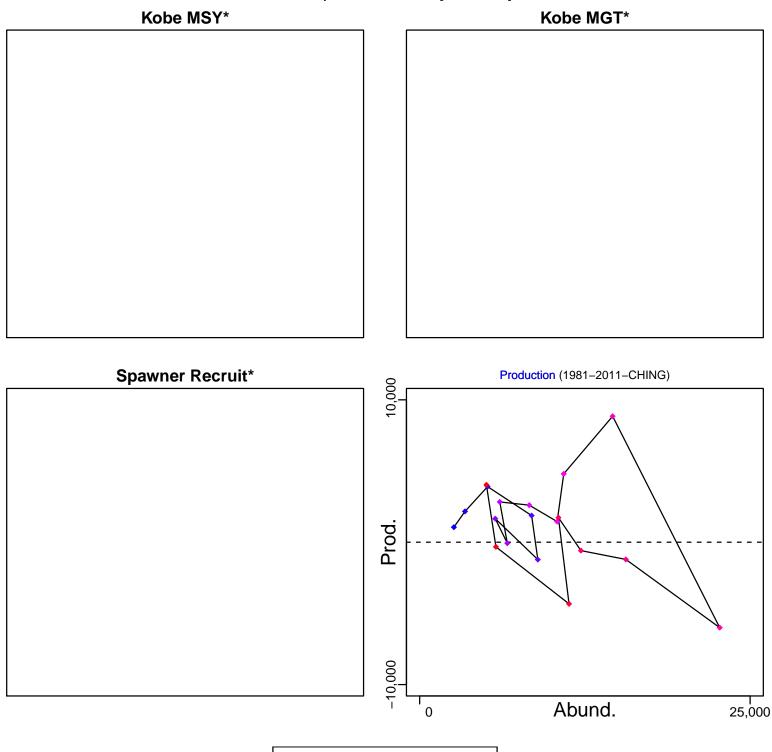


# Sea scallop North Brown Bank [SCALLNBB]

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		

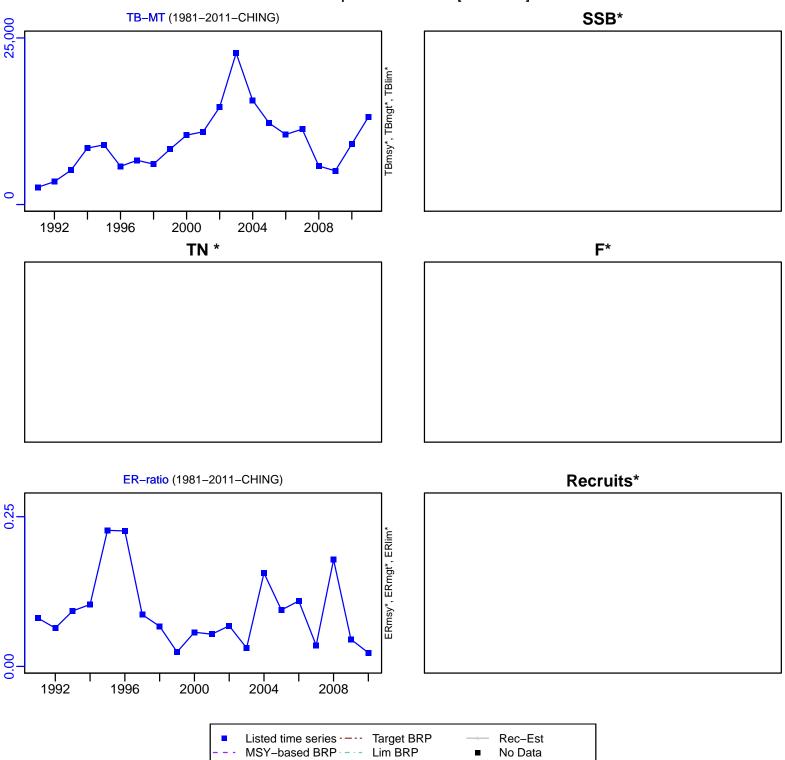
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-			



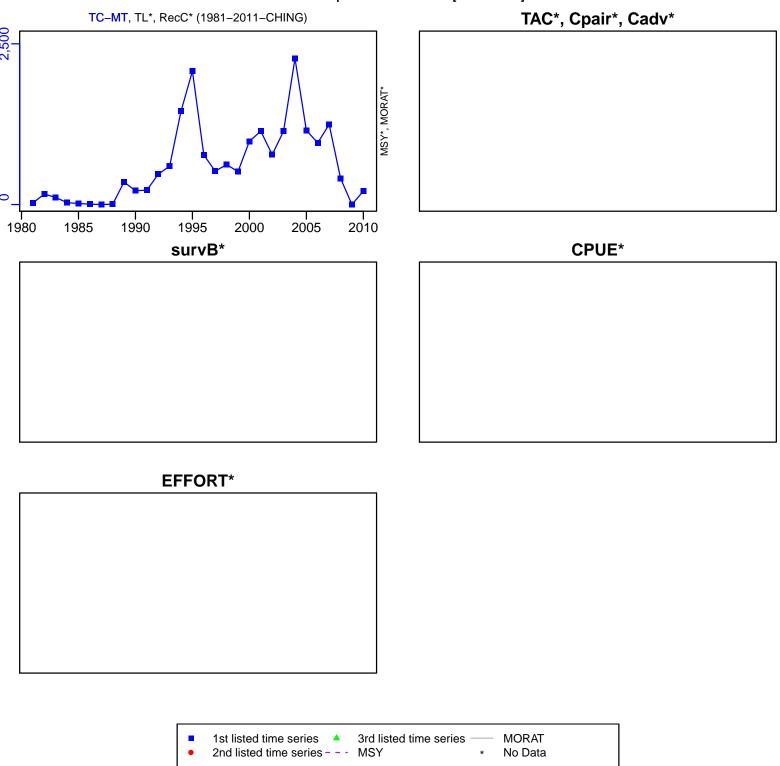
Start Year → End Year → No Data

#### Sea scallop North Brown Bank [SCALLNBB]



No Data

### Sea scallop North Brown Bank [SCALLNBB]



# Sea scallop Northern Gulf of St Lawrence [SCALLSFA16-20]

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

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	1		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2012	69		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

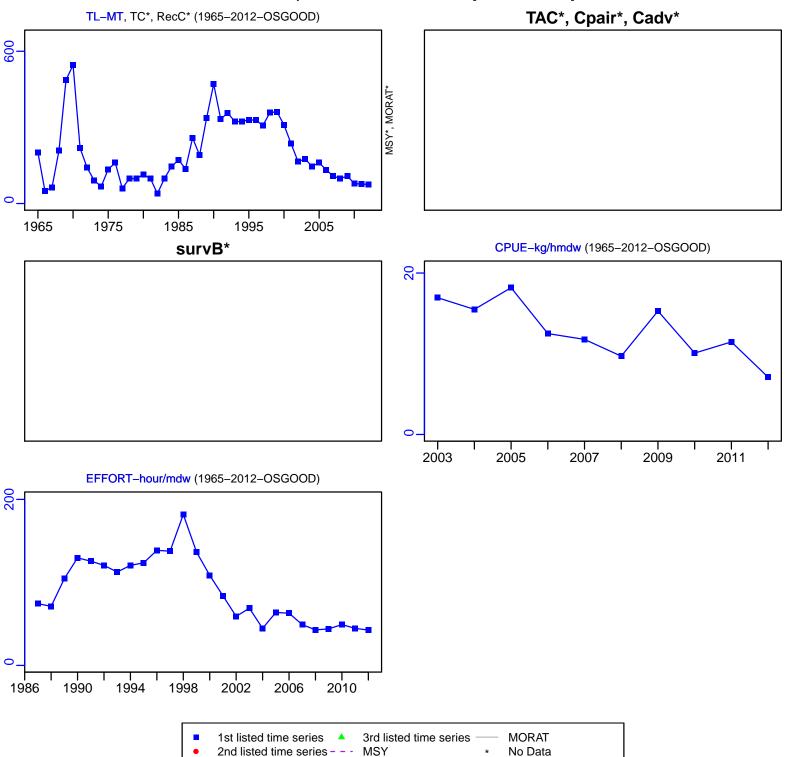
Kobe MSY*	Kobe MGT*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Sea scallop Northern Gulf of St Lawrence [SCALLSFA16-20]

TB*	SSB*
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

### Sea scallop Northern Gulf of St Lawrence [SCALLSFA16-20]



# Sea scallop Bay of Fundy (SPA 1-6) [SCALLSPA1-6]

	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

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

		Time Series	<b>)</b>		
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	-	-	-		

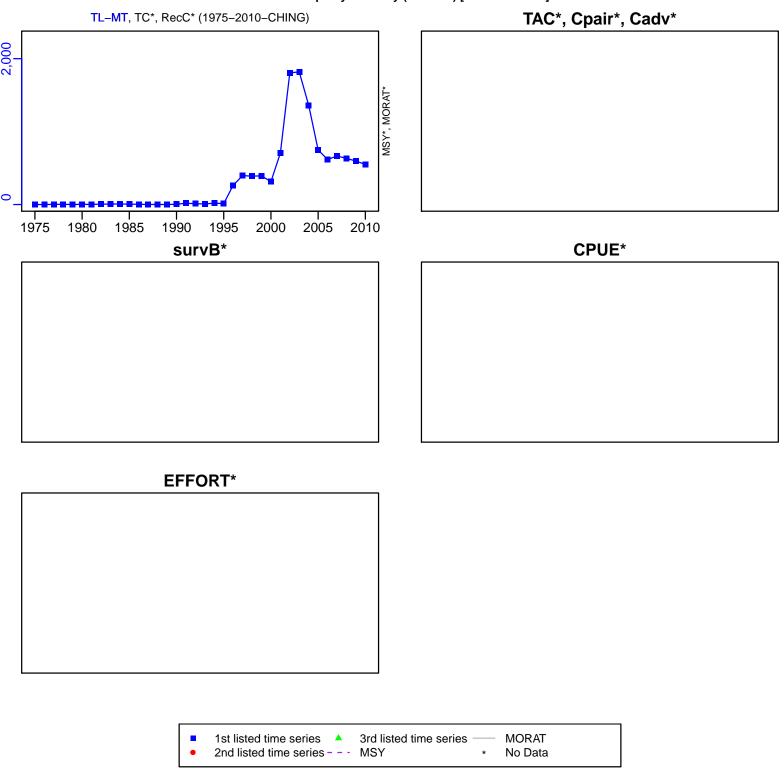
# Sea scallop Bay of Fundy (SPA 1-6) [SCALLSPA1-6]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

## Sea scallop Bay of Fundy (SPA 1-6) [SCALLSPA1-6]

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time porice T	orgat PPD —— Pop Est
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data



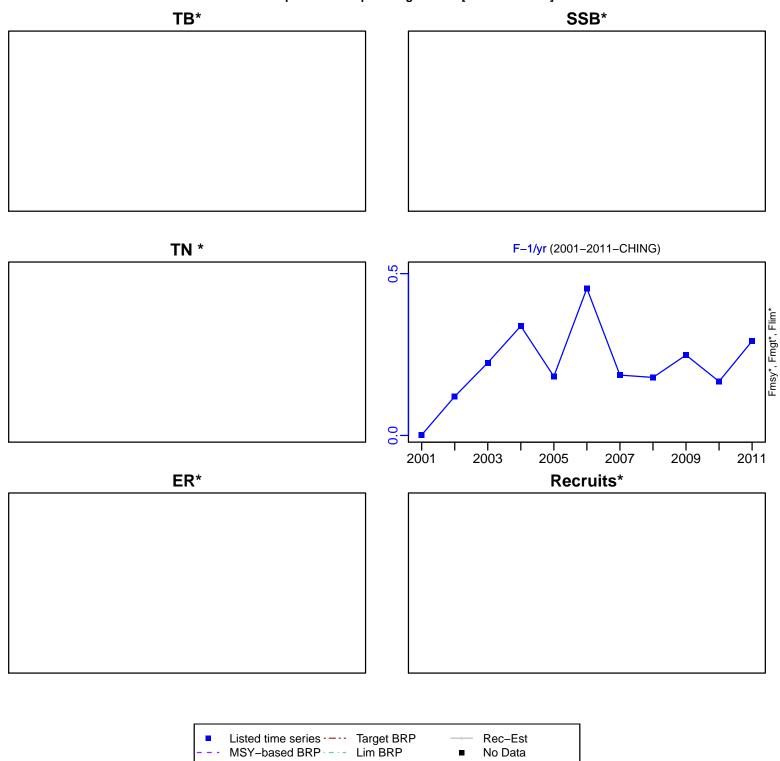
	Metadata
Scientific Name	Placopecten magellanicus
Current Assess ID	DFO-MAR-SCALLWSFA29-2001-2011-CHING
Area	West Scallop Fishing Area 29
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans - Maritimes Region
Asmts in RAM	2011

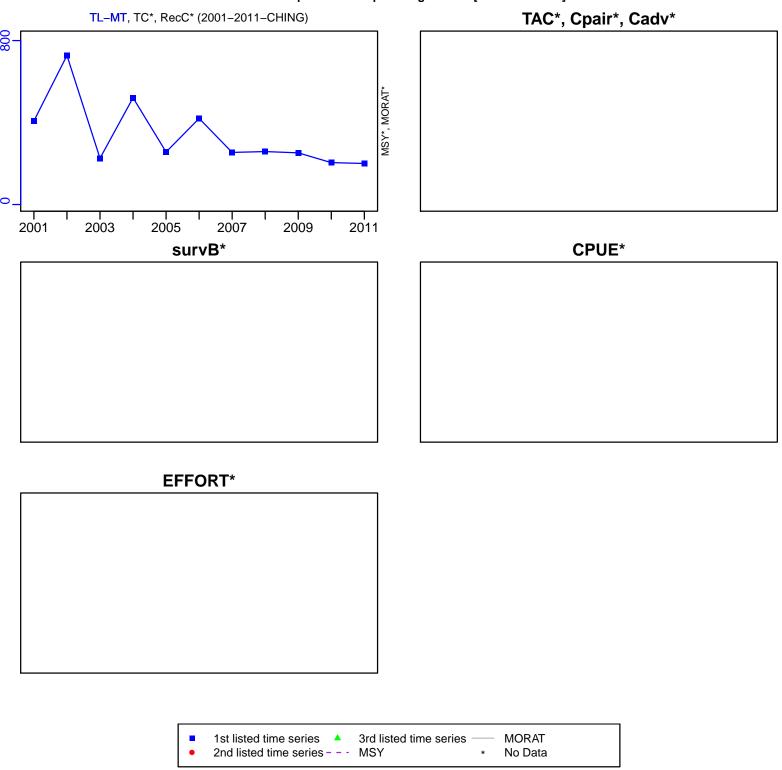
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt		-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М		-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	1		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2011	0.28	-	-
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*
	<b>.</b>
Spawner Recruit*	Production*

Start Year ◆ End Year \* No Data





# Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]

Metadata			
Scientific Name	Squalus acanthias		
Current Assess ID	DFO-MAR-SDOG4VWX5-1922-2013-OSGOOD		
Area	Scotian Shelf, Bay of Fundy and Georges Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2013		

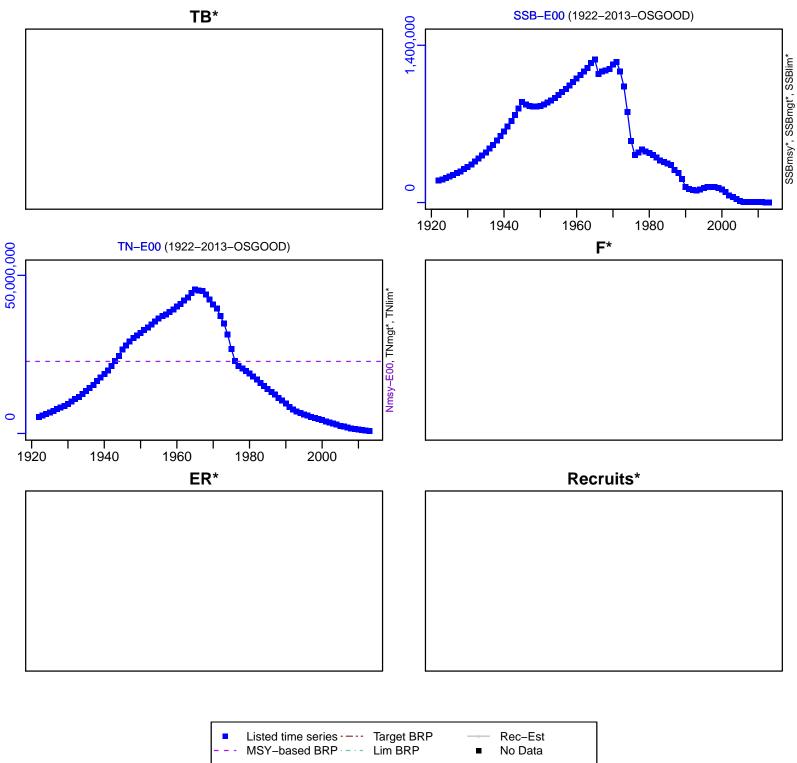
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2013	742		
М	M-1/yr	2013	0.1		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	-	-	-	-	-	
SSB	SSB-E00	2013	1790	-	-	
TN	TN-E00	2013	792,000	Both	0+	
R	-	-	-	-	-	
F	-	-	-	-	-	
ER	-	-	-	-	-	
TC	TC-MT	2013	993			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

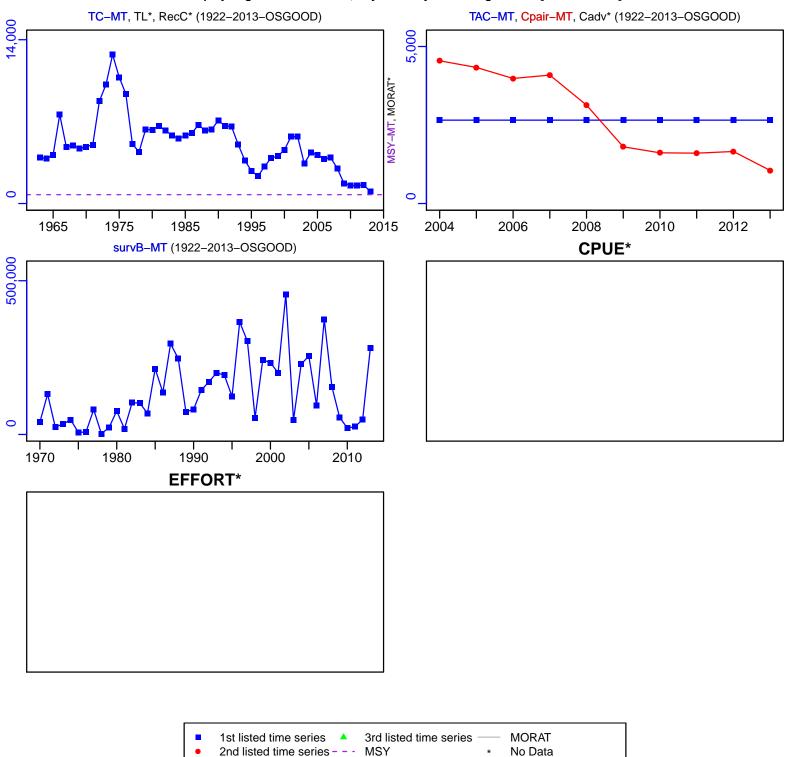
Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

Start Year → End Year → No Data



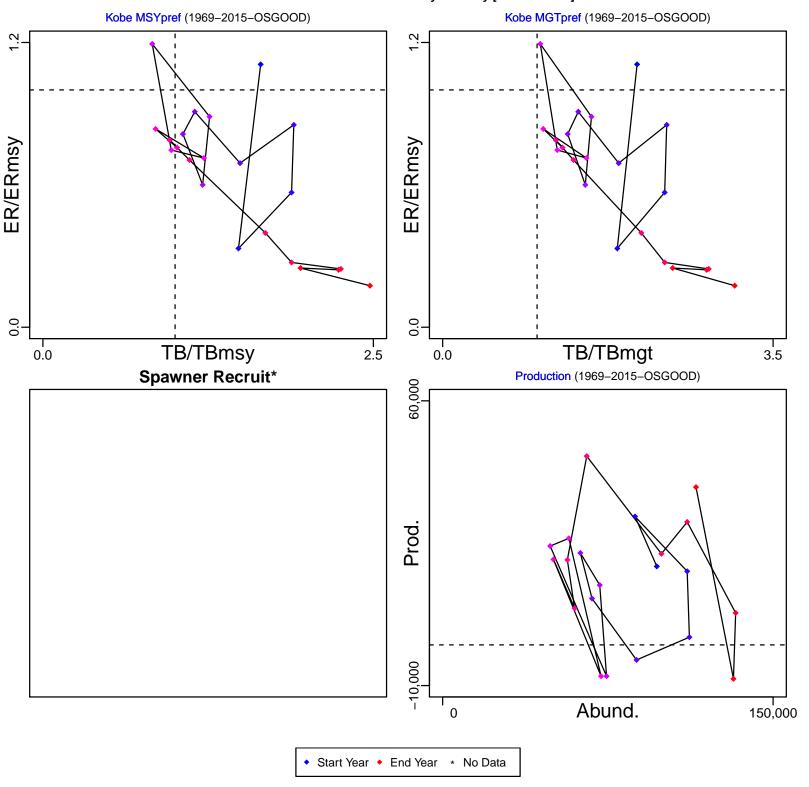
## Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]

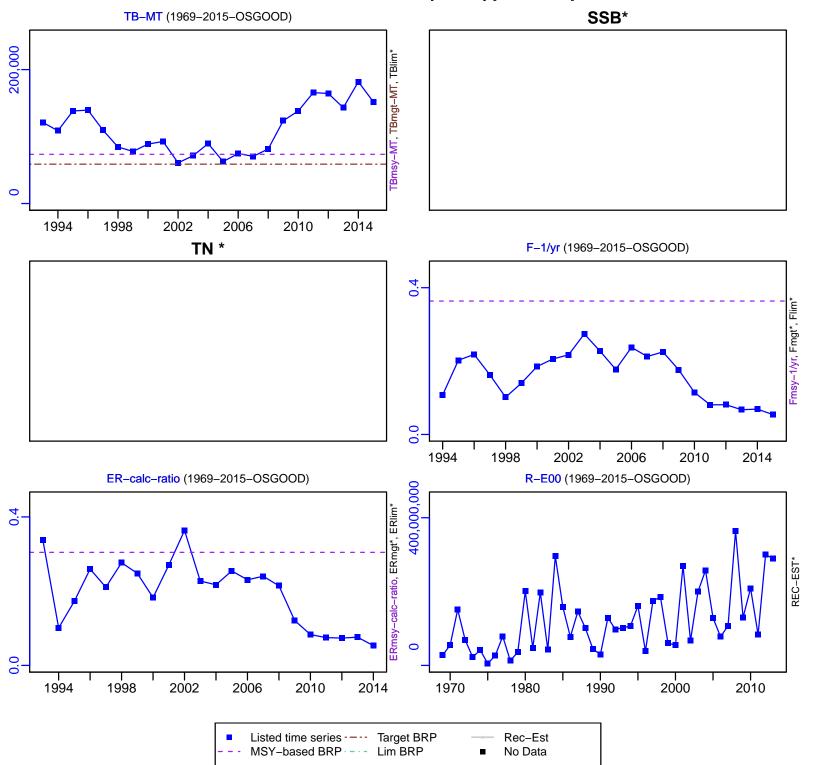


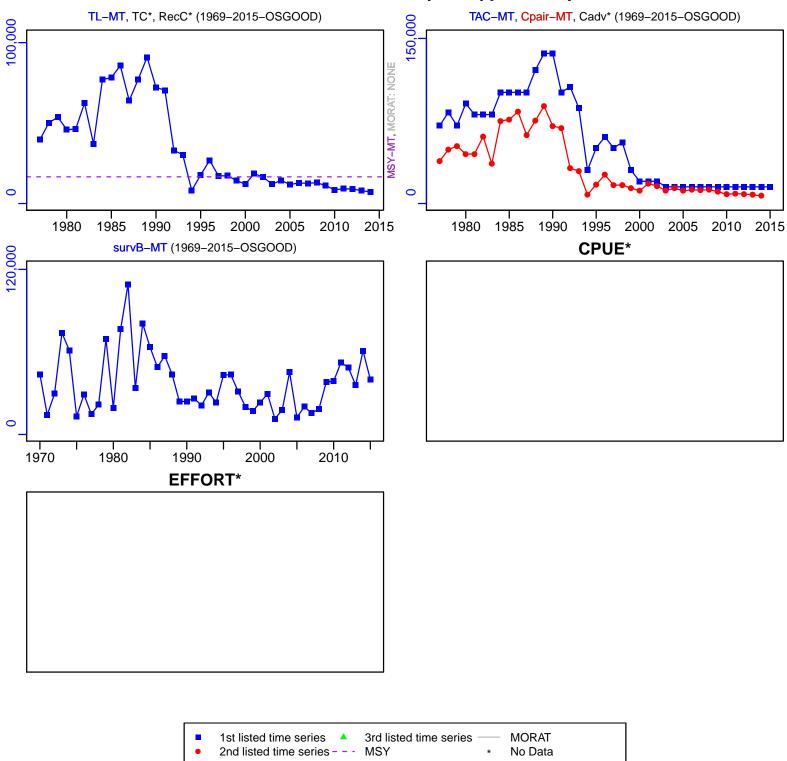
Metadata		
Scientific Name	Merluccius bilinearis	
Current Assess ID	DFO-MAR-SHAKE4VWX-1969-2015-OSGOOD	
Area	Scotian Shelf and Bay of Fundy	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2015	

	Reference Points			
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2015	59,000	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2015	0.32	
ERmsy	ERmsy-calc-ratio	2015	0.27	
TBmgt	TBmgt-MT	2015	47,200	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	16,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

	Time Seri	es			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	122,000	Both	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	$2.56 \times 10^{8}$	Both	-
F	F-1/yr	2015	0.05	-	-
ER	ER-calc-ratio	2015	0.05	-	-
TC	-	-	-		
TL	TL-MT	2015	6930		
TB/TBmsy	TB-MT/TBmsy-MT	2015	2.07		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.15		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.18		
TB/TBmgt	TB-MT/TBmgt-MT	2015	2.58		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







Metadata		
Scientific Name	Malacoraja senta	
Current Assess ID	DFO-NFLD-SMOOTHSKA2J3K-1981-2012-OSGOOD	
Area	NAFO Division 2J3K	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Newfoundland Region	
Asmts in RAM	2012	

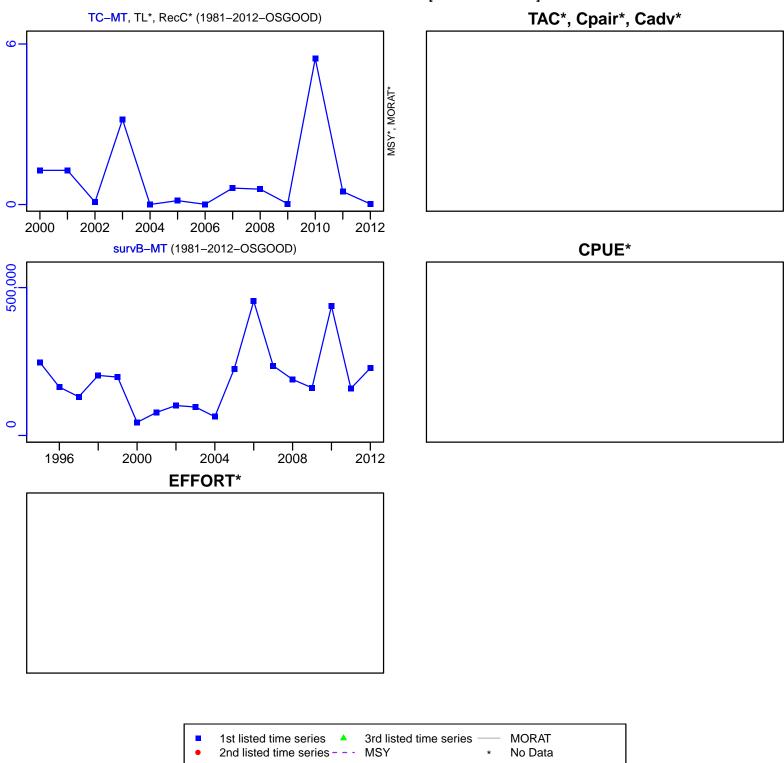
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series	i e		
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data

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



Metadata		
Scientific Name	Malacoraja senta	
Current Assess ID	DFO-NFLD-SMOOTHSKA4T-1971-2010-OSGOOD	
Area	Southern Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Newfoundland Region	
Asmts in RAM	2010	

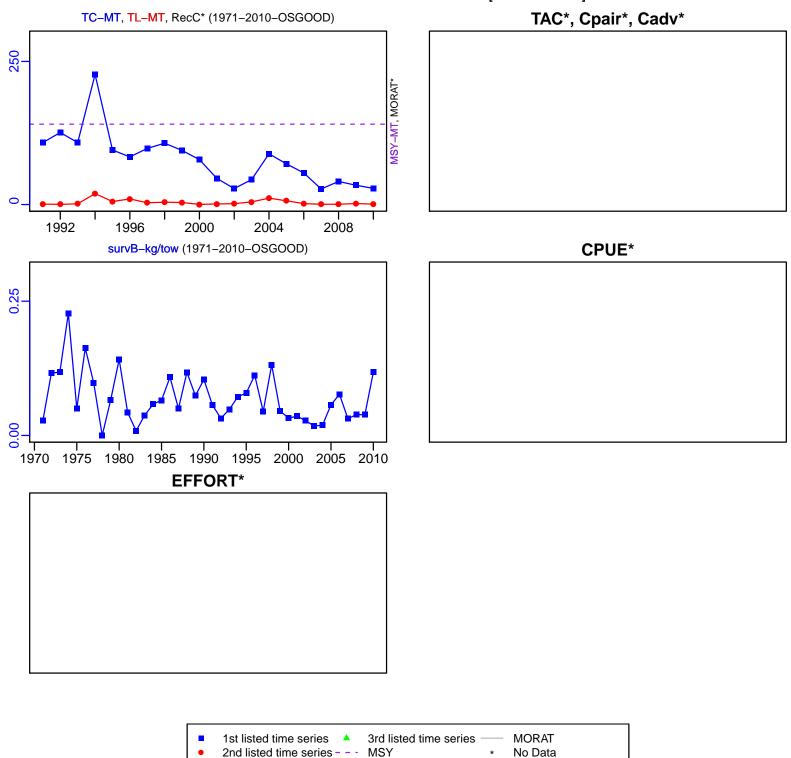
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	120	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	24		
TL	TL-MT	2010	1		
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
Listed time series Ta	m BRP ■ No Data



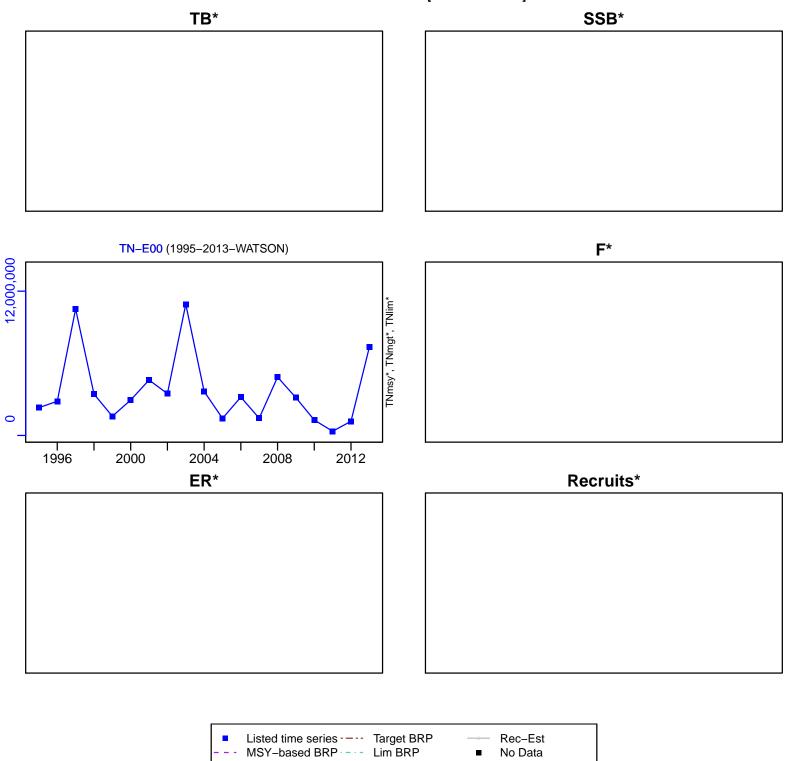
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	DFO-SNOWCRAB2HJ-1995-2013-WATSON
Area	Division 2HJ
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013

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

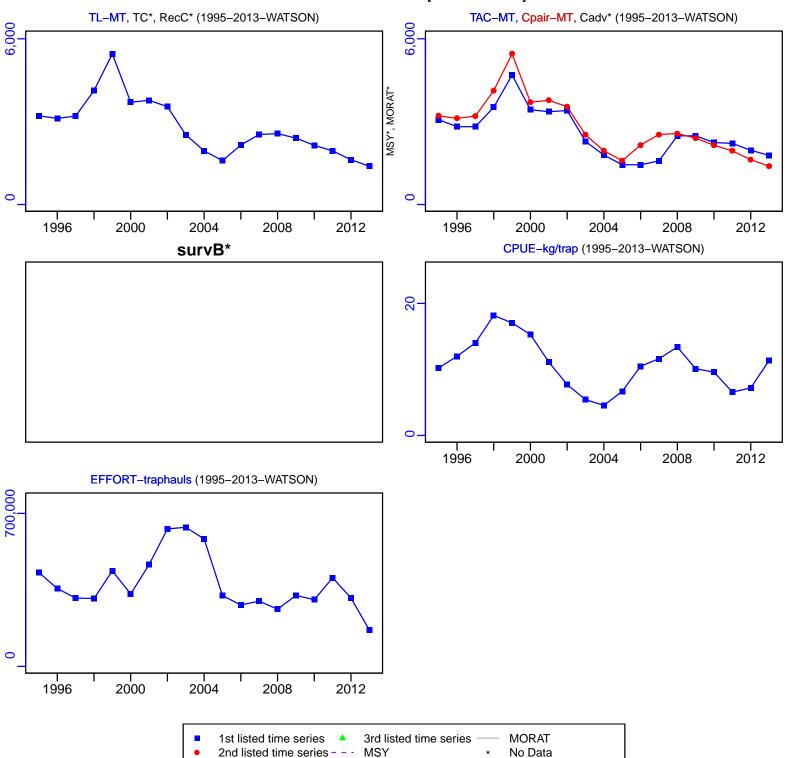
		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	6,350,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	1380		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data



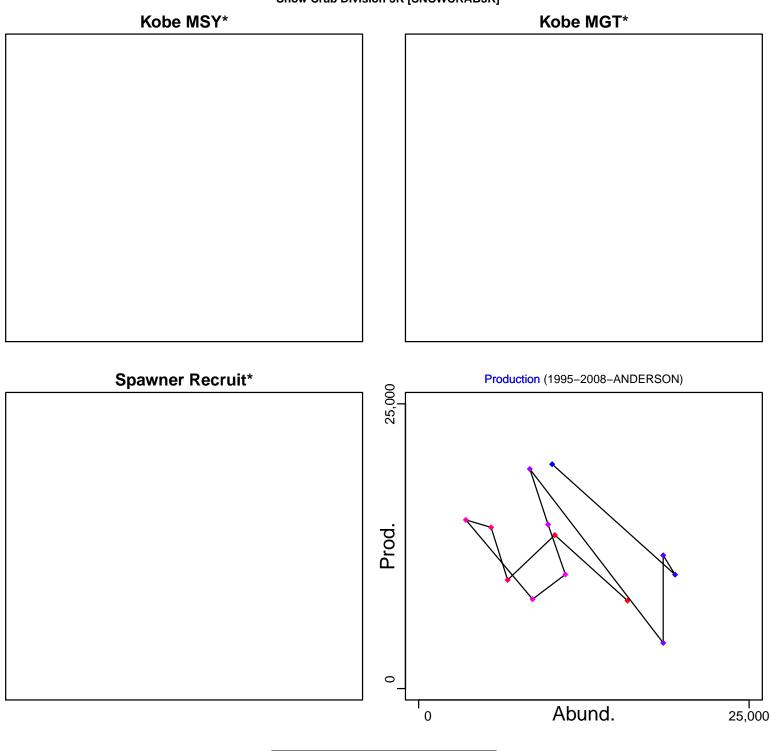
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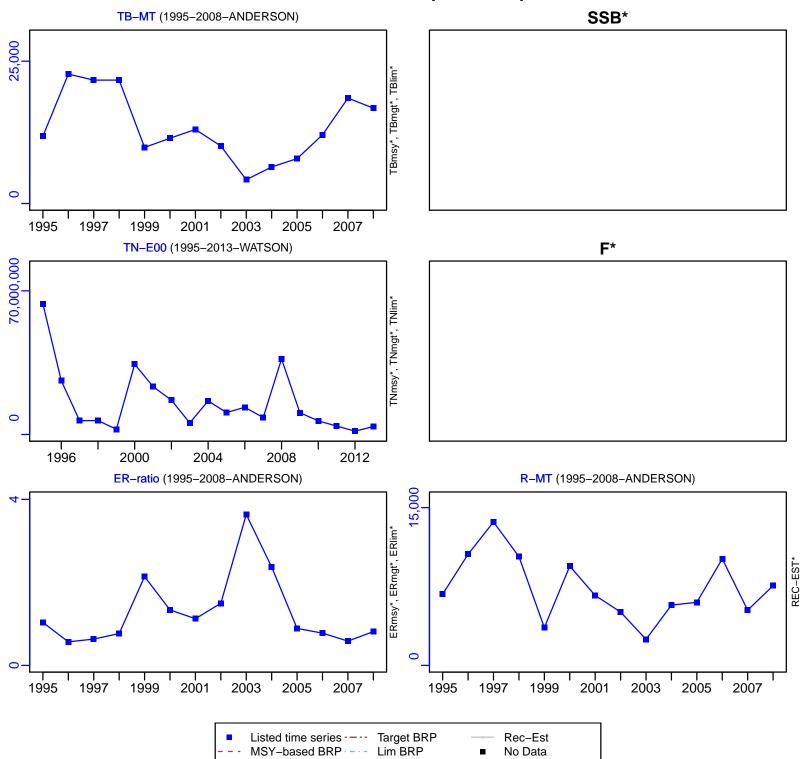
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	DFO-SNOWCRAB3K-1995-2013-WATSON
Area	Division 3K
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2008, 2013

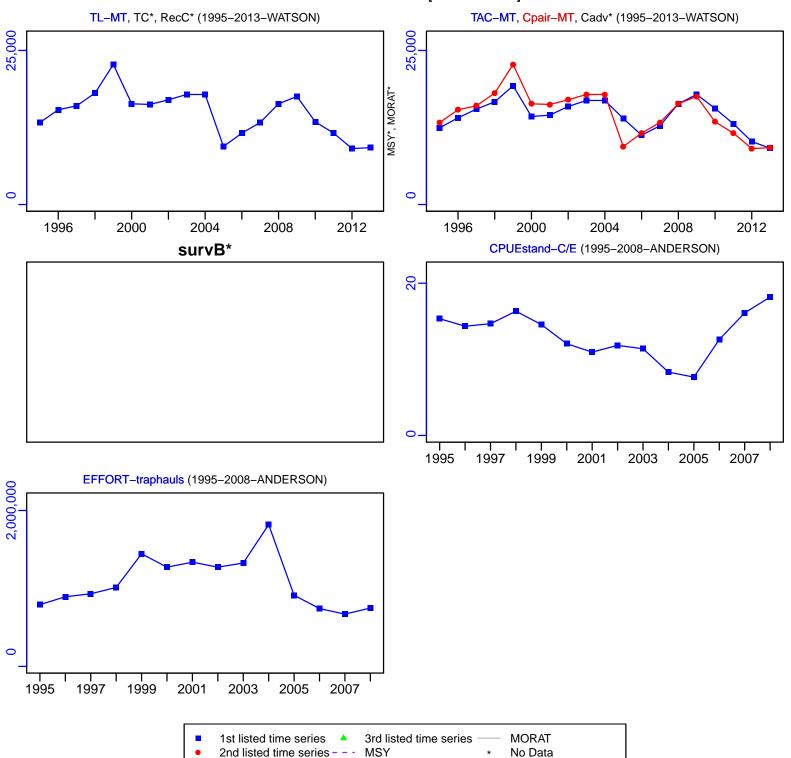
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	14,300	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	3,310,000	-	-
R	R-MT	2008	7170	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0.81	-	-
TC	-	-	-		
TL	TL-MT	2013	8520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data





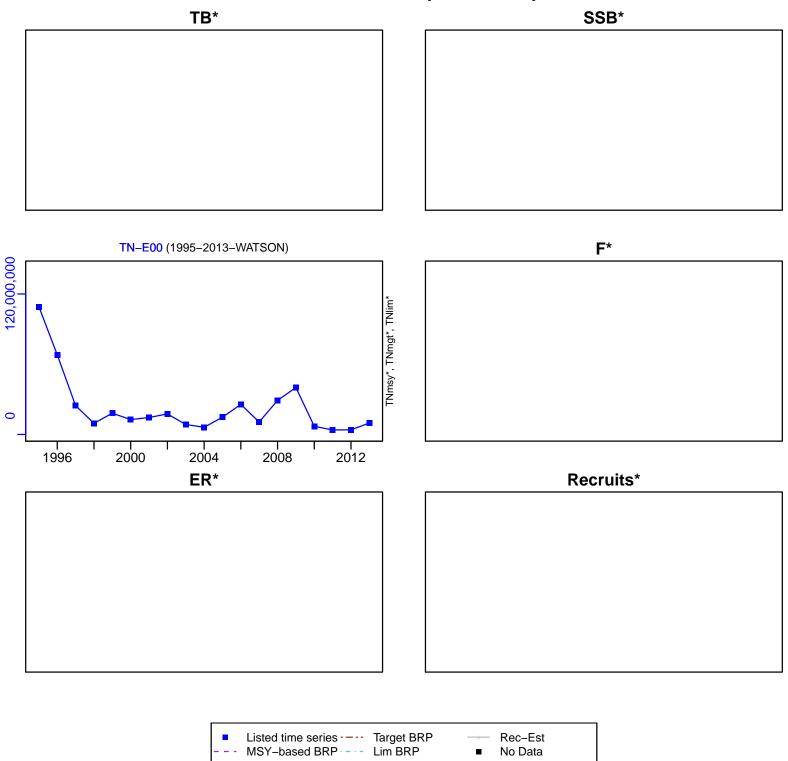
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	DFO-SNOWCRAB3LNO-1995-2013-WATSON
Area	Division 3LNO
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013

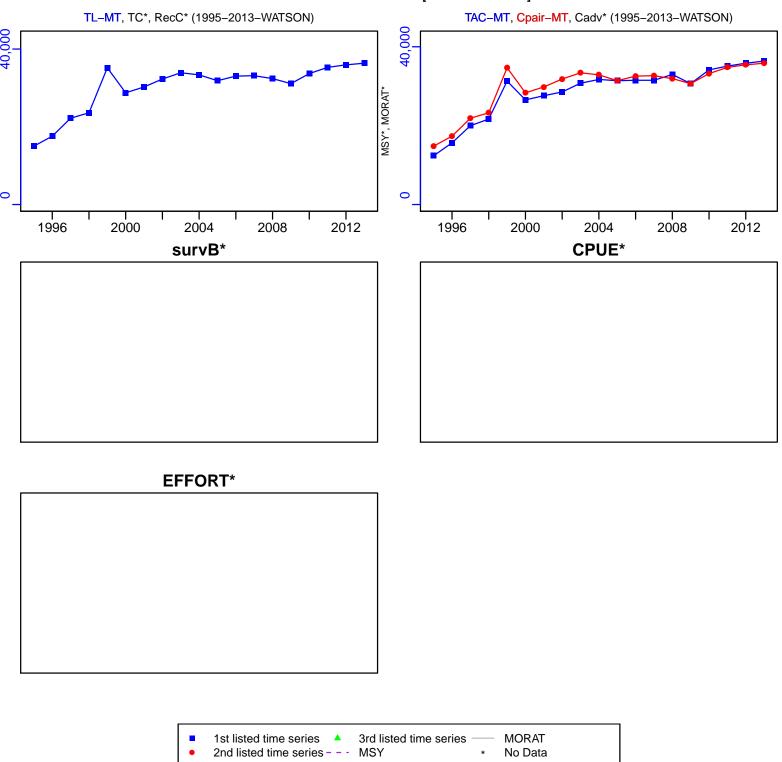
F	Refere	ence Points	
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	8,270,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	33,900	1	
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





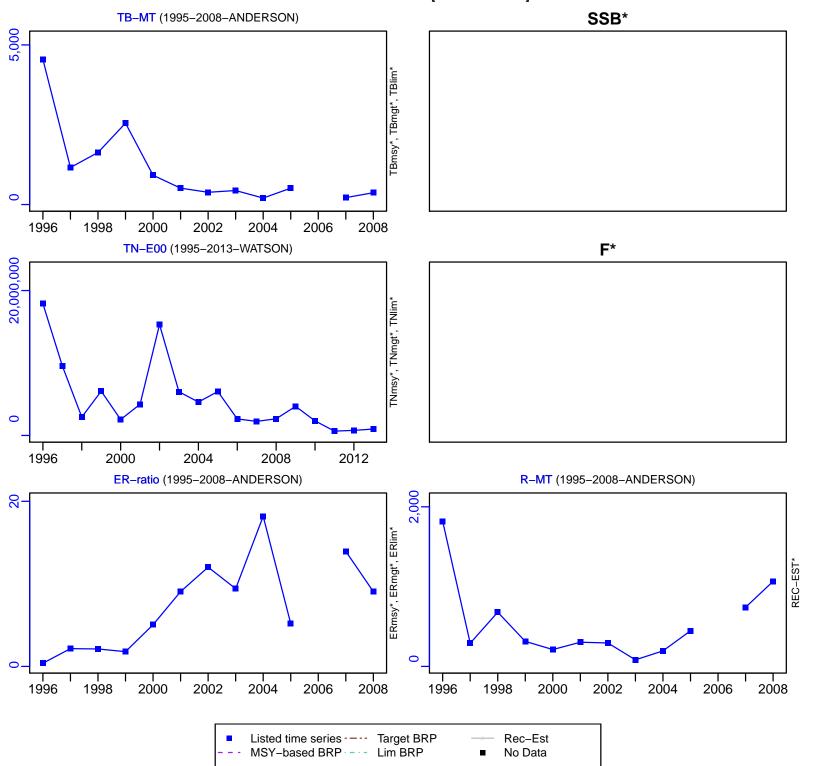
Metadata		
Scientific Name Chionoecetes opilio		
Current Assess ID	DFO-SNOWCRAB3Ps-1995-2013-WATSON	
Area St. Pierre Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2008, 2013	

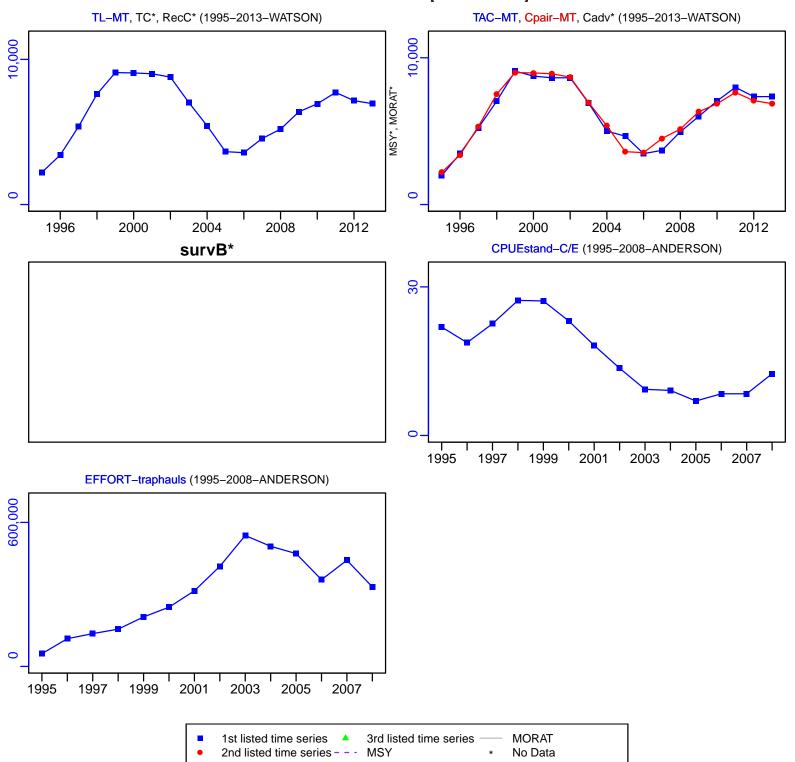
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	354	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	768,000	-	-
R	R-MT	2008	1020	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	8.97	-	-
TC	-	-	-		
TL	TL-MT	2013	6050		
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





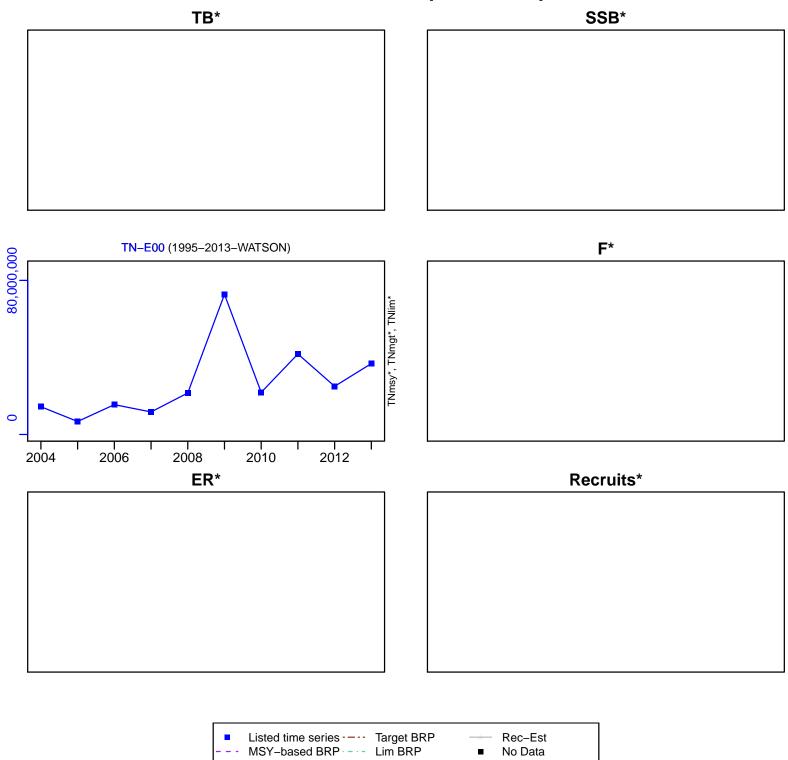
Metadata		
Scientific Name Chionoecetes opilio		
Current Assess ID	DFO-SNOWCRAB4R3Pn-1995-2013-WATSON	
Area Division 4R3Pn		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2013	

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

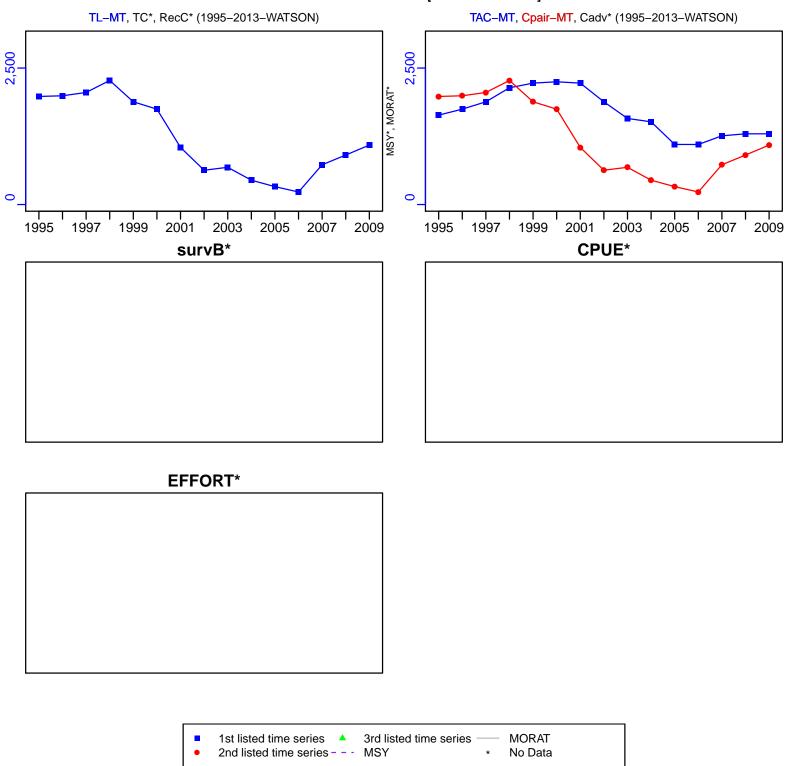
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	$3.4 \times 10^{7}$	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	891		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year \* No Data



No Data



# Snow crab Northern Gulf of St. Lawrence [SNOWCRABSCMA12-17]

Metadata		
Scientific Name Chionoecetes opilio		
Current Assess ID	DFO-QUE-SNOWCRABSCMA12-17-1979-2011-CHING	
Area	Northern 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	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	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	7490		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Snow crab Northern Gulf of St. Lawrence [SNOWCRABSCMA12-17]

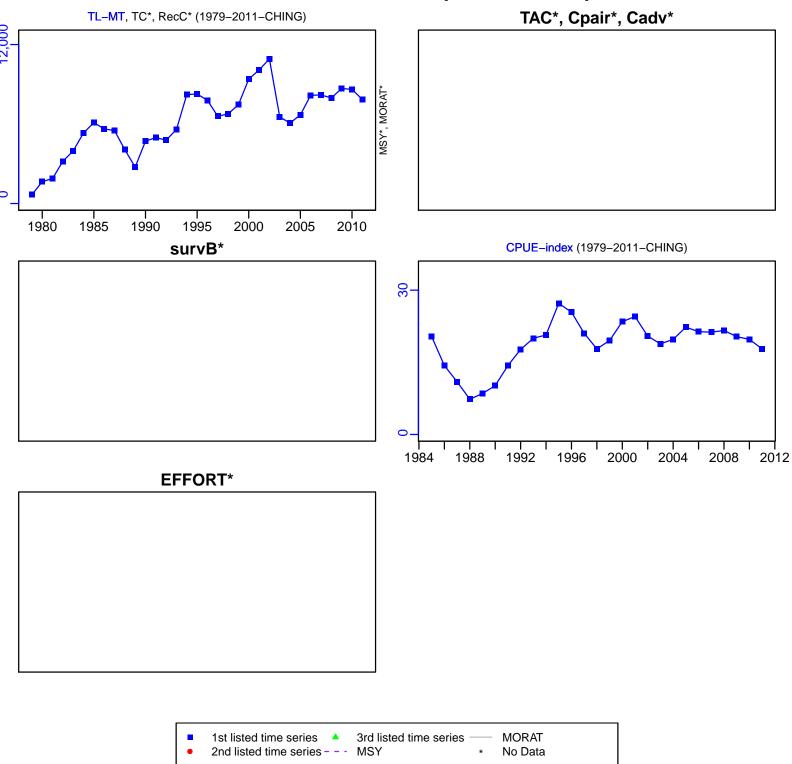
Kobe MGT*
Production*

Start Year ◆ End Year \* No Data

Snow crab Northern Gulf of St. Lawrence [SNOWCRABSCMA12-17]

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

#### Snow crab Northern Gulf of St. Lawrence [SNOWCRABSCMA12-17]

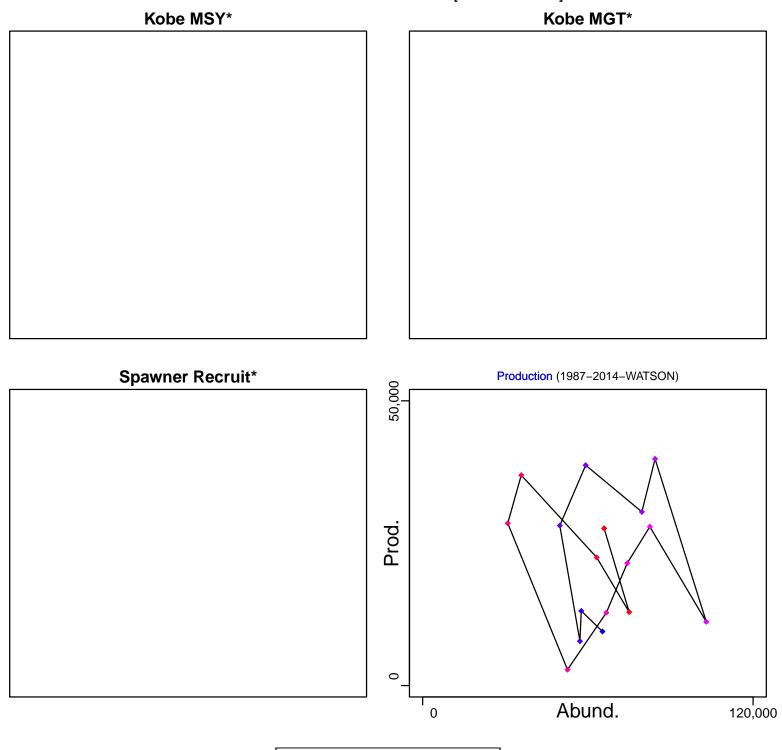


## Snow crab Southern Gulf of St. Lawrence [SNOWCRABSGSL]

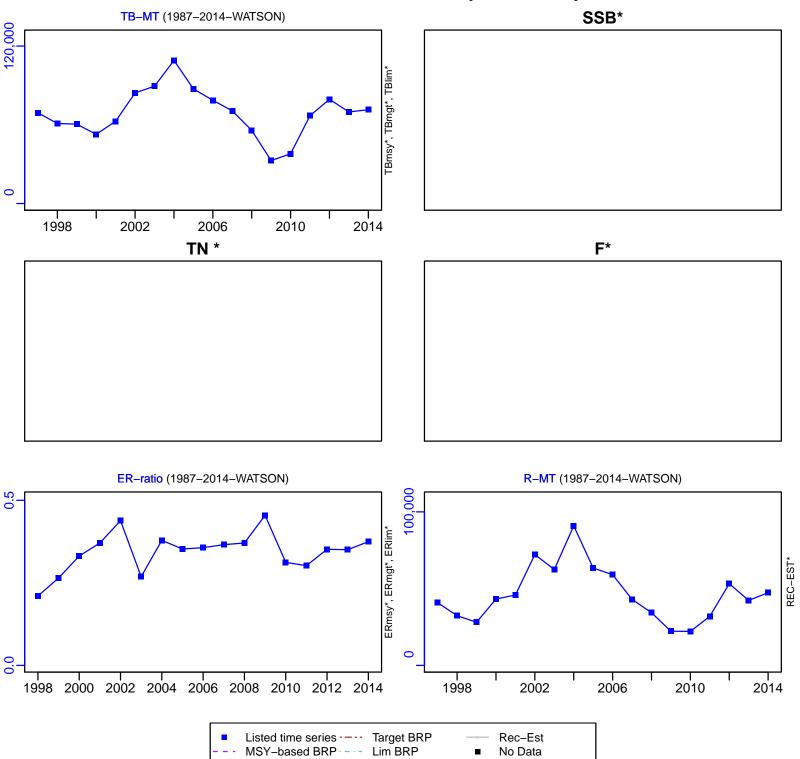
Metadata			
Scientific Name	Chionoecetes opilio		
Current Assess ID DFO-SNOWCRABSGSL-1987-2014-WATSON			
Area Southern Gulf of St. Lawrence			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2007, 2014		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2007	0.38		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	67,500	Males	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2014	43,600	Males	-
F	-	-	-	-	-
ER	ER-ratio	2014	0.37	-	-
TC	-	-	-		
TL	TL-MT	2014	24,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

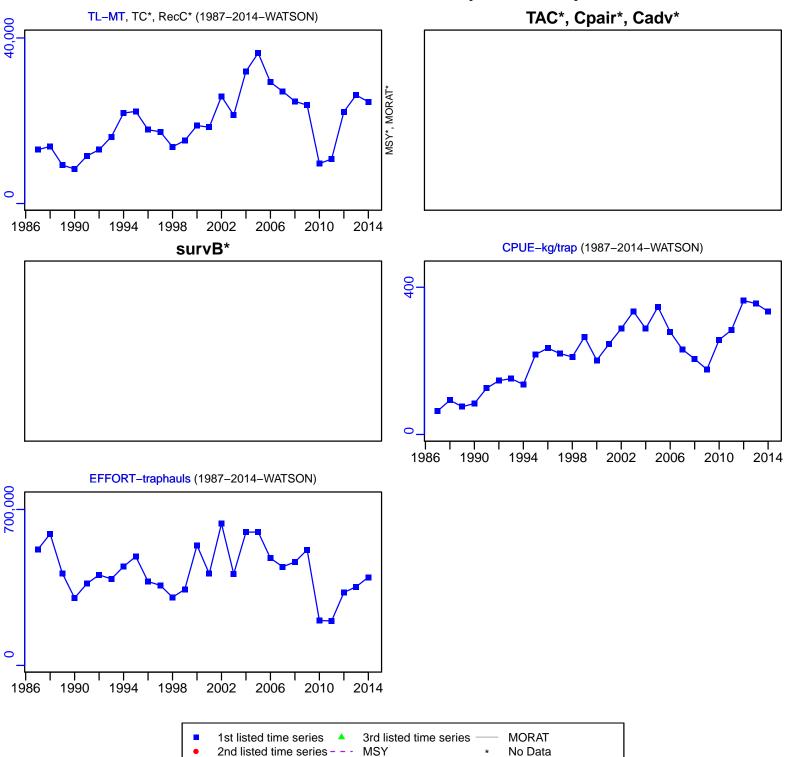


#### Snow crab Southern Gulf of St. Lawrence [SNOWCRABSGSL]



No Data

#### Snow crab Southern Gulf of St. Lawrence [SNOWCRABSGSL]



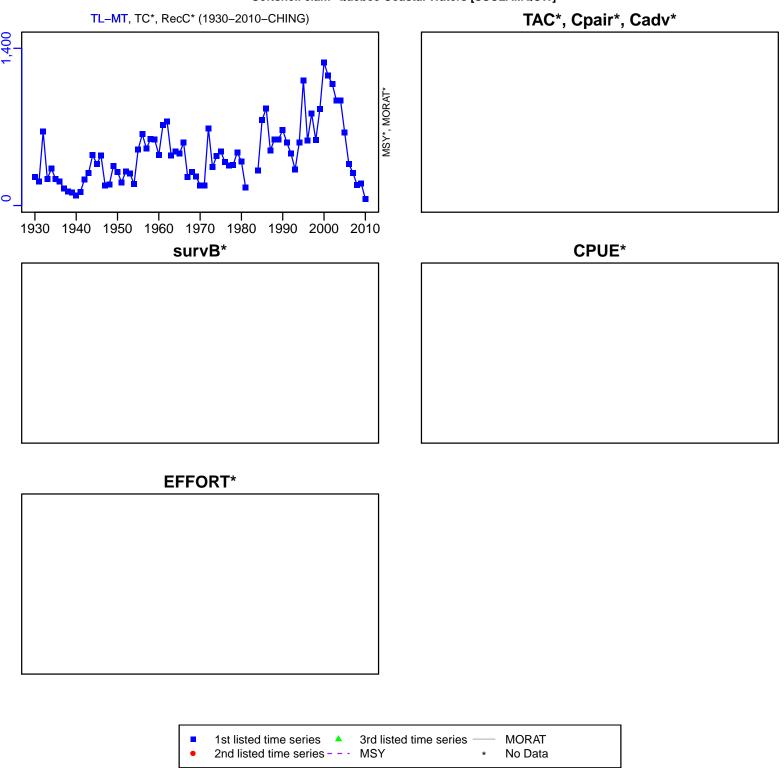
Metadata			
Scientific Name	Mya arenaria		
Current Assess ID	DFO-QUE-SSCLAMQCW-1930-2010-CHING		
Area Quebec Coastal Waters			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in RAM	2010		

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	-	-	-		
TL	TL-MT	2010	55		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-	]	

Kobe MGT*
Production*

TB*	SSB*
TN *	F*
ER*	Recruits*
■ Listed time porice T	orgat PPD —— Pop Est
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data



# Aesop shrimp Shrimp Fishing Areas 2-3 [STRSHRIMPSFA2-3]

Metadata			
Scientific Name	Pandalus montagui		
Current Assess ID	DFO-ARCTIC-STRSHRIMPSFA2-3-1979-2010-CHING		
Area Shrimp Fishing Areas 2-3			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Arctic Region		
Asmts in RAM	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	218		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

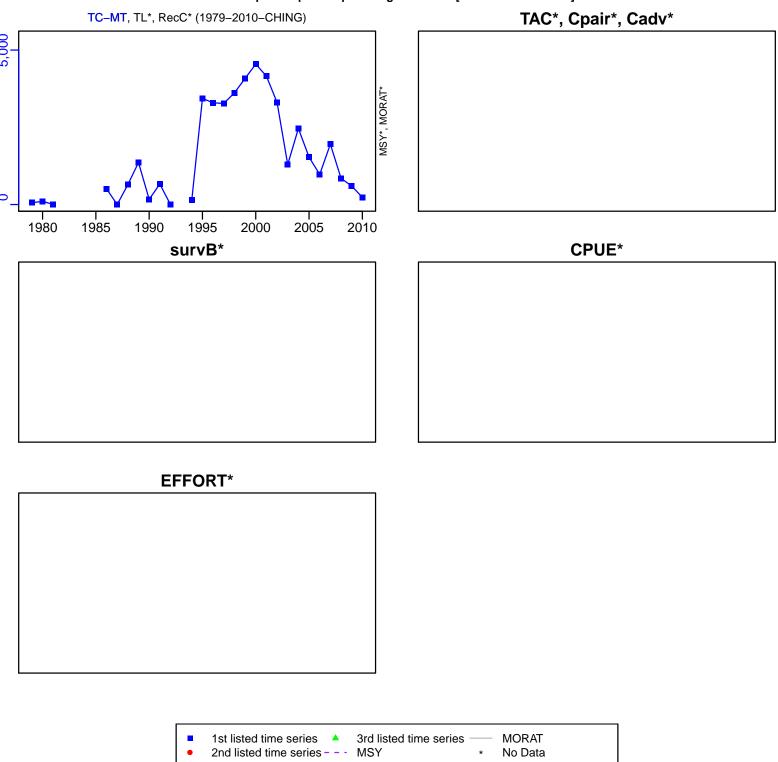
### Aesop shrimp Shrimp Fishing Areas 2–3 [STRSHRIMPSFA2–3]

Kobe MGT*
Production*

### Aesop shrimp Shrimp Fishing Areas 2–3 [STRSHRIMPSFA2–3]

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

#### Aesop shrimp Shrimp Fishing Areas 2-3 [STRSHRIMPSFA2-3]

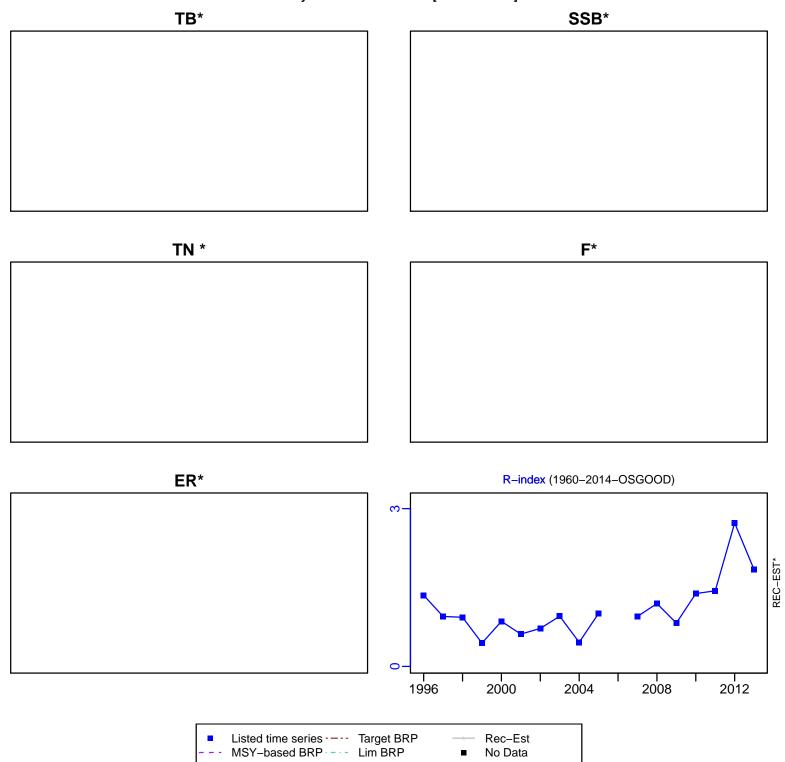


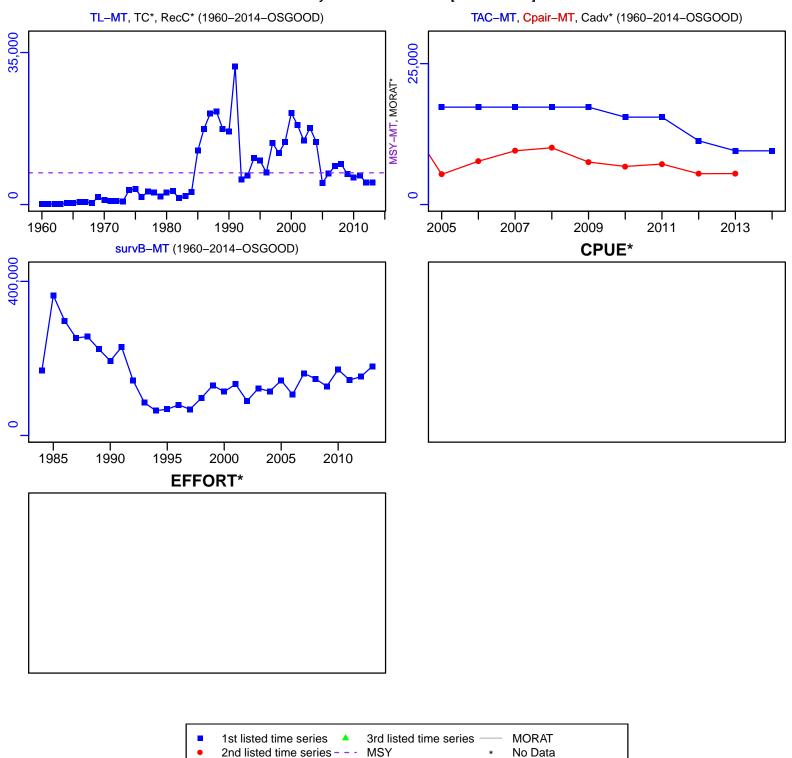
Metadata		
Scientific Name	Amblyraja radiata	
Current Assess ID	NAFO-SC-TSKA3LNOPs-1960-2014-OSGOOD	
Area	Grand Bank and St Pierre Bank	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2014	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2014	6653	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-index	2014	2	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	4640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	1	-	-		
TB/TBmgt	•	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	•	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
	l
Spawner Recruit*	Production*





## Thorny skate Southern Gulf of St. Lawrence [TSKA4T]

Metadata		
Scientific Name	Amblyraja radiata	
Current Assess ID	DFO-SG-TSKA4T-1971-2010-OSGOOD	
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	2010	

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

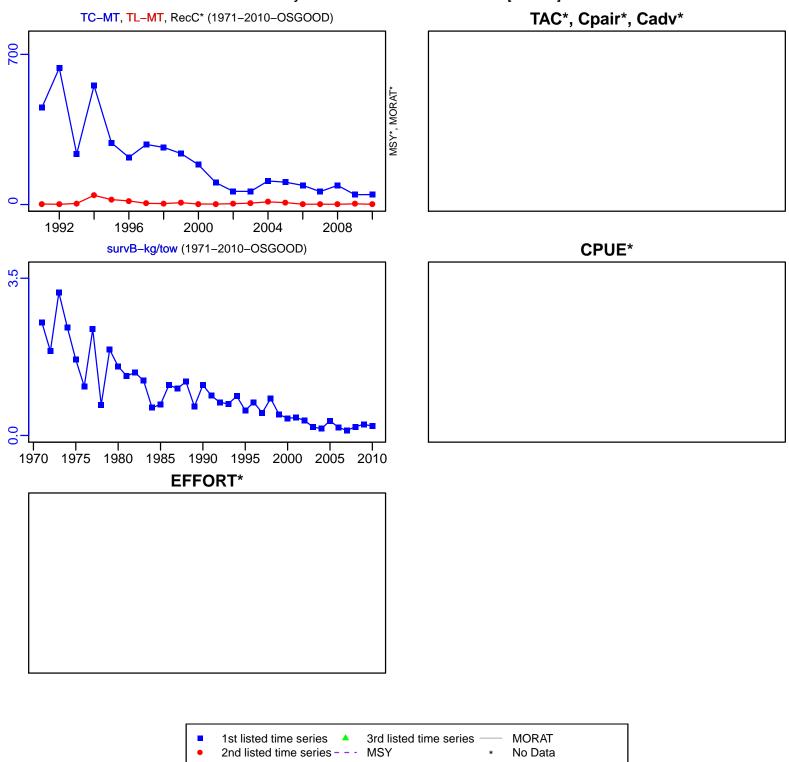
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	42		
TL	TL-MT	2010	1		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

## Thorny skate Southern Gulf of St. Lawrence [TSKA4T]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Opawiici Reciuit	Troduction

### Thorny skate Southern Gulf of St. Lawrence [TSKA4T]

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



## White hake Southern Grand Bank and St. Pierre Bank [WHAKE3NOPs]

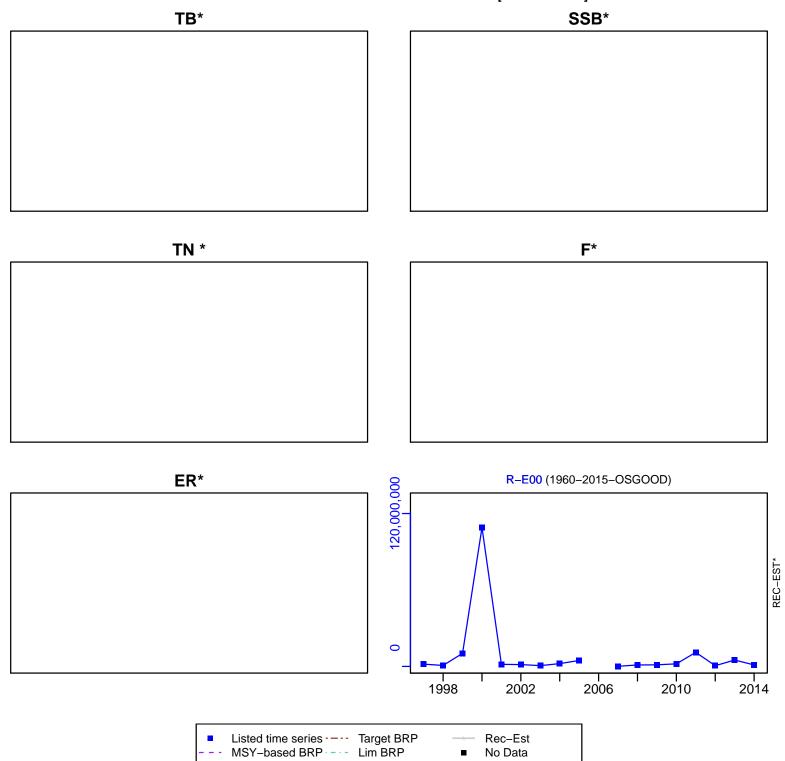
Metadata		
Scientific Name	Urophycis tenuis	
Current Assess ID	NAFO-SC-WHAKE3NOPs-1960-2015-OSGOOD	
Area	Grand Bank and St. Pierre Bank	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2015	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	3500	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

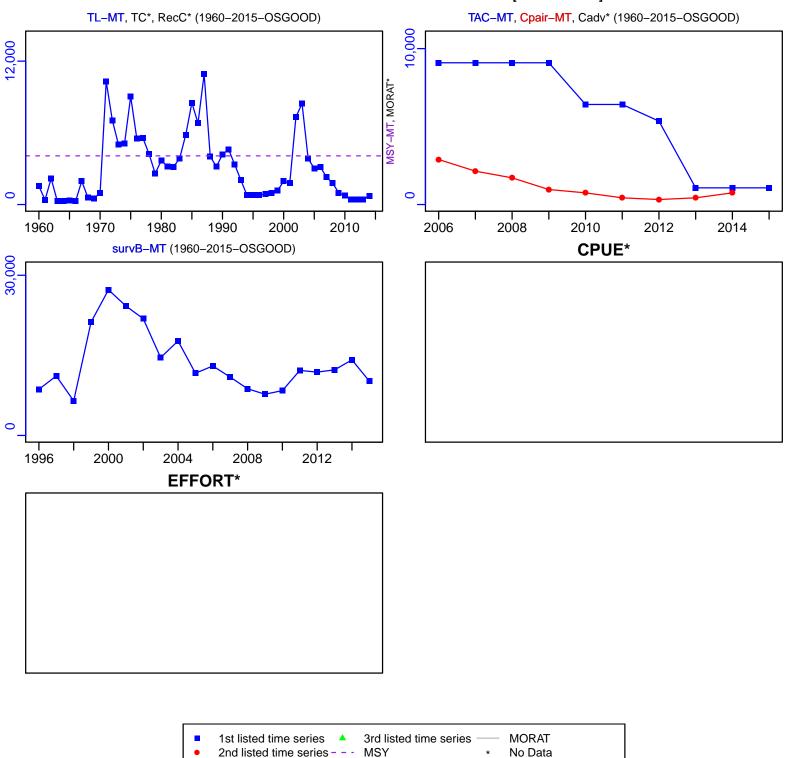
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	1,080,000	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2015	627		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White hake Southern Grand Bank and St. Pierre Bank [WHAKE3NOPs]

Kobe MGT*
Production*



#### White hake Southern Grand Bank and St. Pierre Bank [WHAKE3NOPs]



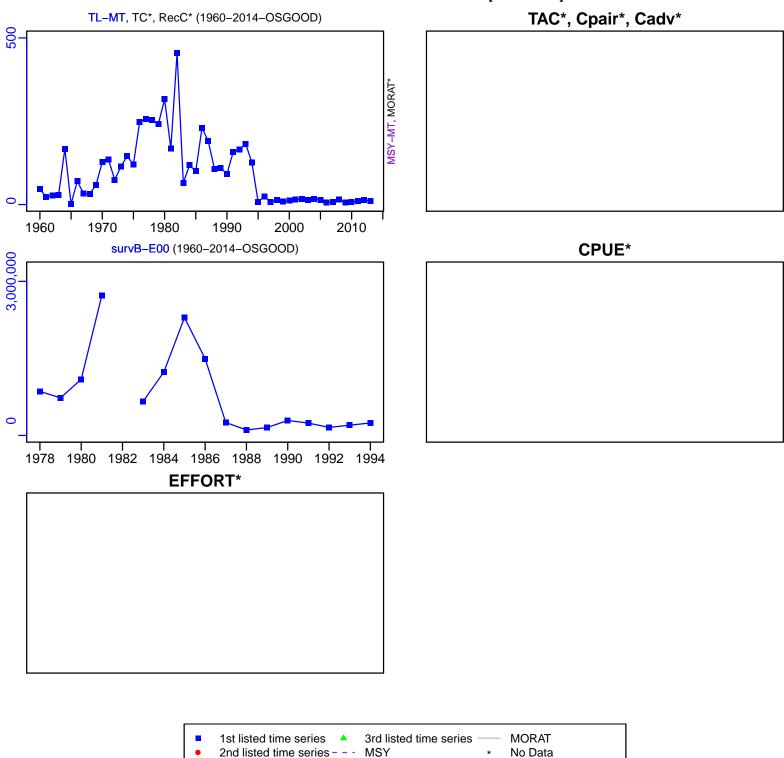
Metadata		
Scientific Name	Urophycis tenuis	
Current Assess ID	DFO-QUE-WHAKE4RS-1960-2014-OSGOOD	
Area	Northern Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2014	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2014	9016	
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	2014	10		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Opawiici Reciuit	Troduction

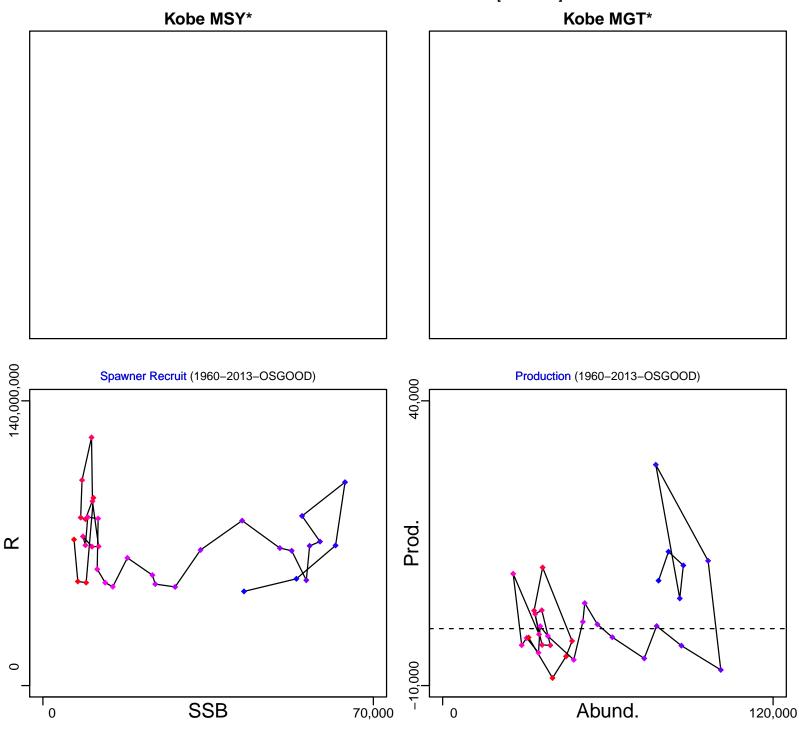
TB*	SSB*
TN *	F*
ER*	Recruits*
Γ	
Listed time series Ta	arget BRP — Rec–Est m BRP ■ No Data

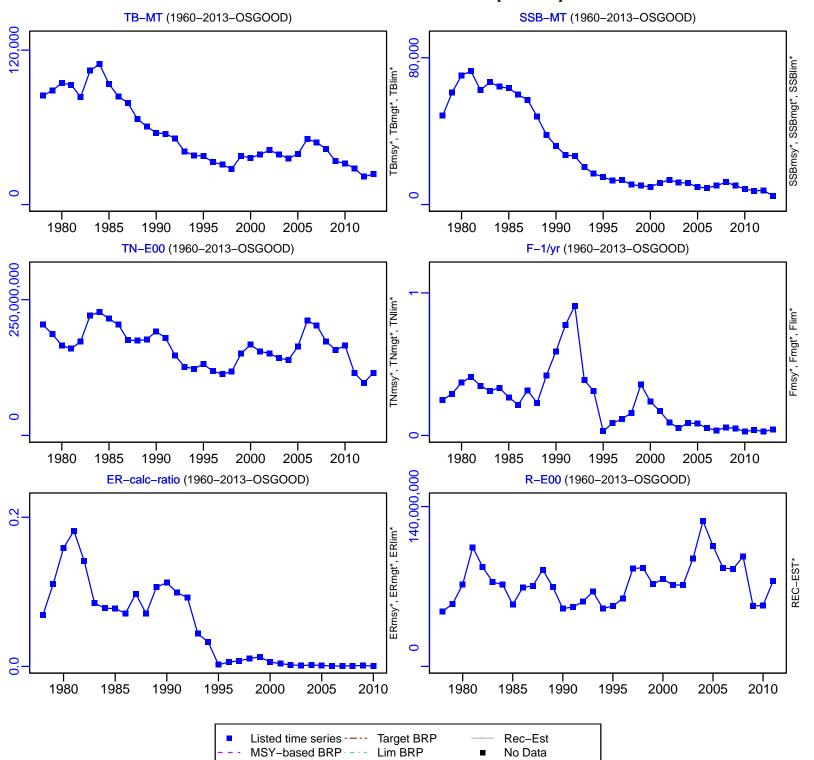


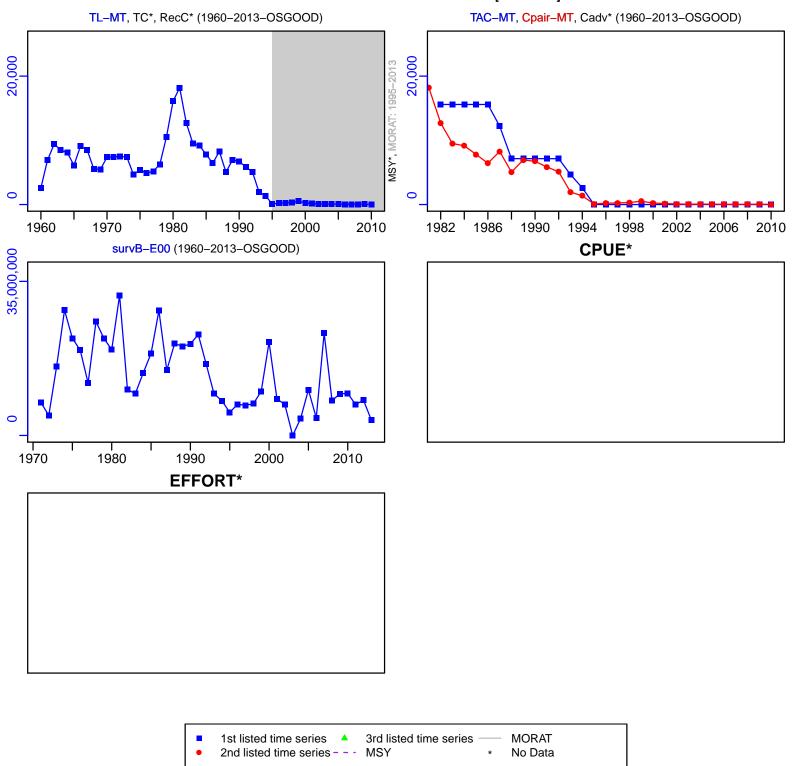
Metadata		
Scientific Name	Urophycis tenuis	
Current Assess ID	DFO-SG-WHAKE4T-1960-2013-OSGOOD	
Area	Southern Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Southern Gulf Region	
Asmts in RAM	2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	1.08	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	21,900	Both	1+
SSB	SSB-MT	2013	4120	Both	4+
TN	TN-E00	2013	93,900,000	Both	1+
R	R-E00	2013	71,800,000	Both	-
F	F-1/yr	2013	0.04	Both	6+
ER	ER-calc-ratio	2013	0	-	-
TC	-	-	-		
TL	TL-MT	2013	15		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		







# White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

Metadata		
Scientific Name	Urophycis tenuis	
Current Assess ID	DFO-MAR-WHAKE4VWX5-1964-2005-PREFONTAINE	
Area	Scotian Shelf, Bay of Fundy and Georges Bank	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2005	

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
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	•	-	-	-	-
F	•	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2005	2060		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	ı	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

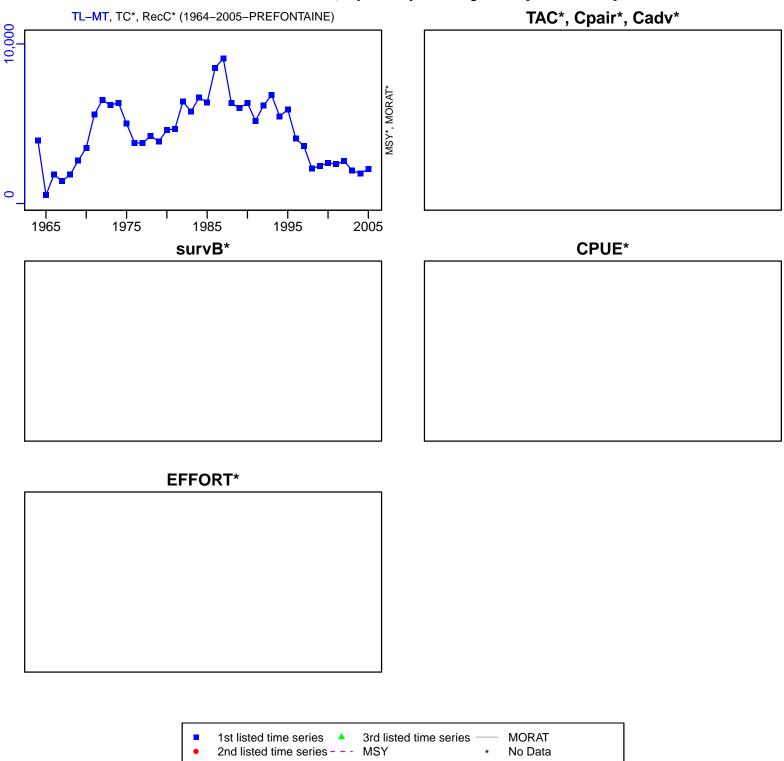
White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

TB*	SSB*
TN *	<b>F</b> *
ED*	Dogwito*
ER*	Recruits*
■ Listed time series · — · · Ta	arget BRP — Rec-Est
<ul><li>Listed time series Ta</li><li> MSY-based BRP Li</li></ul>	m BRP ■ No Data

## White hake Scotian Shelf, Bay of Fundy and Georges Bank [WHAKE4VWX5]

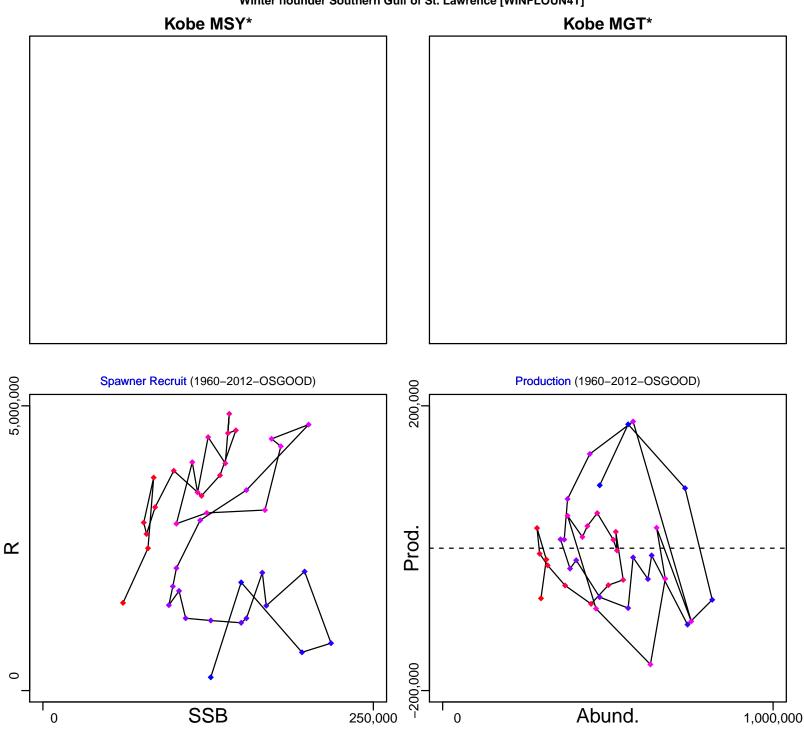


# Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

Metadata		
Scientific Name	Pseudopleuronectes americanus	
Current Assess ID	DFO-SG-WINFLOUN4T-1960-2012-OSGOOD	
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	2011, 2012	

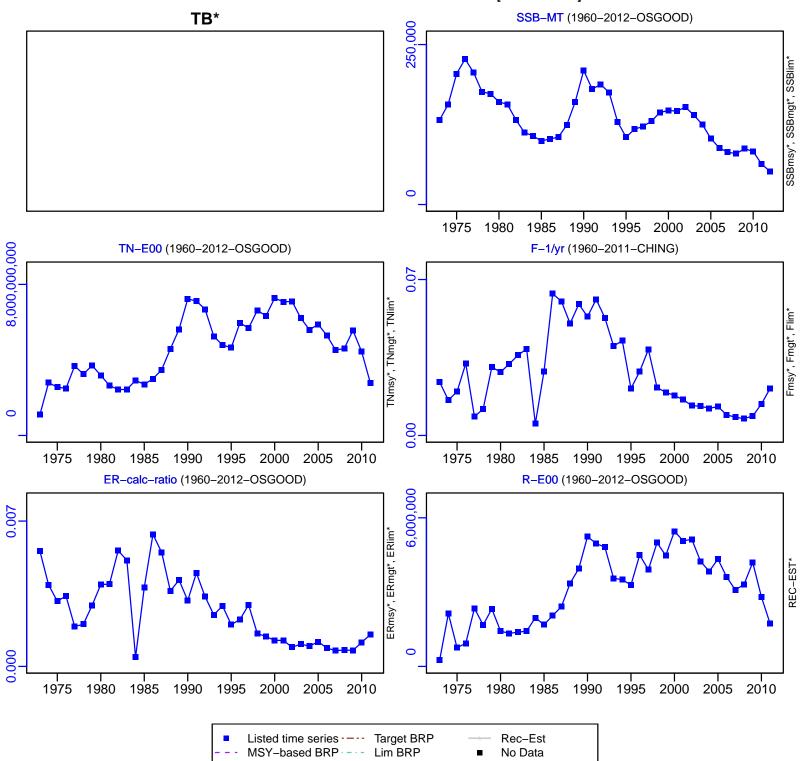
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2012	0.83		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	49,500	Both	3+
TN	TN-E00	2012	$2.52 \times 10^{9}$	Both	3+
R	R-E00	2012	1,540,000	Both	-
F	F-1/yr	2011	0.02	-	6+
ER	ER-calc-ratio	2012	0	-	-
TC	TC-E00	2012	$1.47 \times 10^{9}$		
TL	TL-MT	2012	302		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

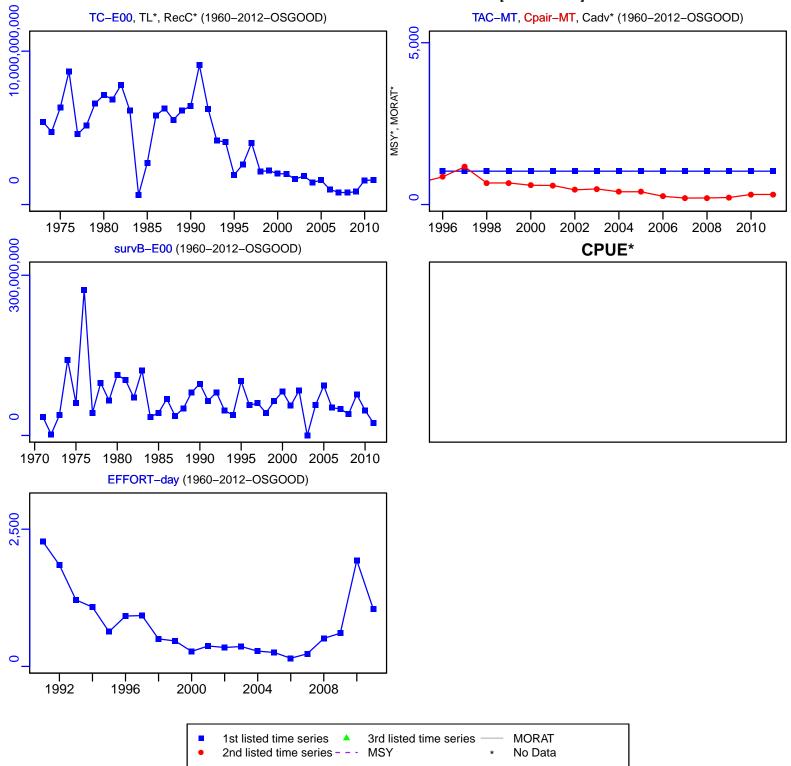


Start Year • End Year • No Data

#### Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]



#### Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]



Metadata		
Scientific Name	Glyptocephalus cynoglossus	
Current Assess ID	DFO-NFLD-WITFLOUN3Ps-1974-2013-OSGOOD	
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	2013	

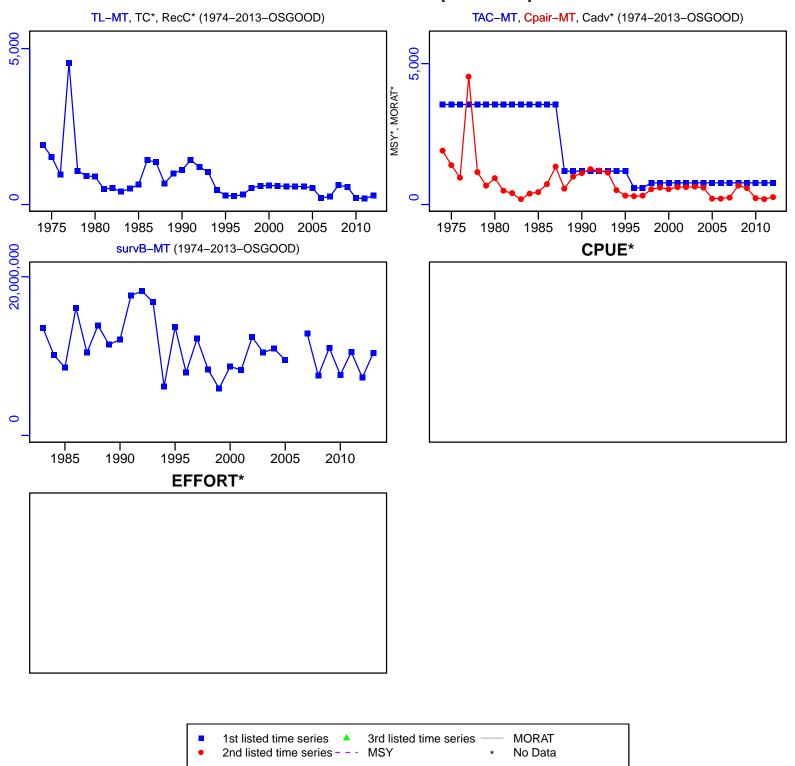
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	e ID Asmt Year Curr Value Sex		Sex	Age	
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	267		
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

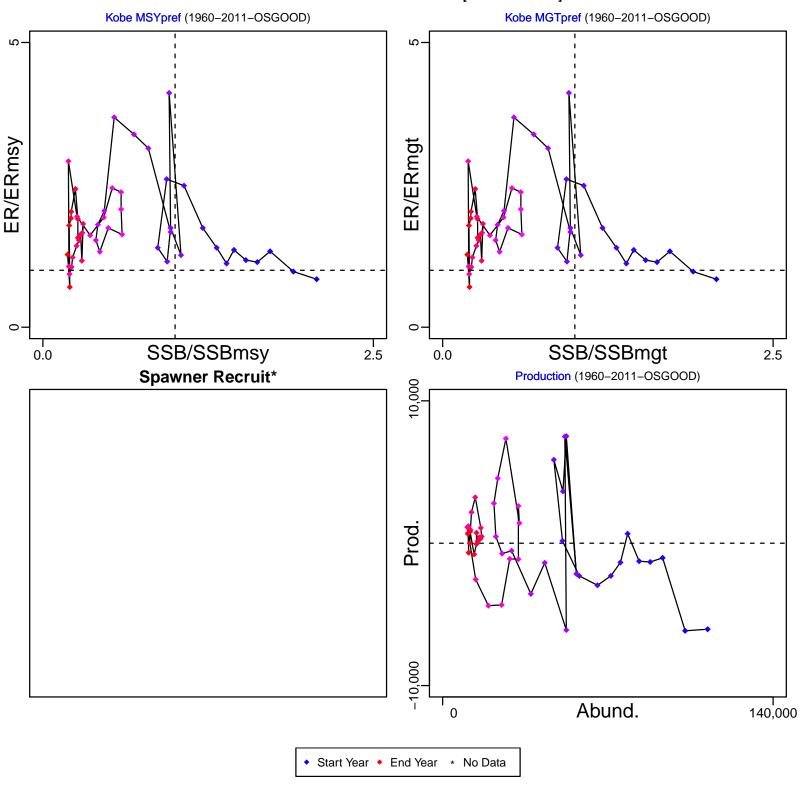
TB*	SSB*
<b></b>	
TN *	<b>F</b> *
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est im BRP ■ No Data

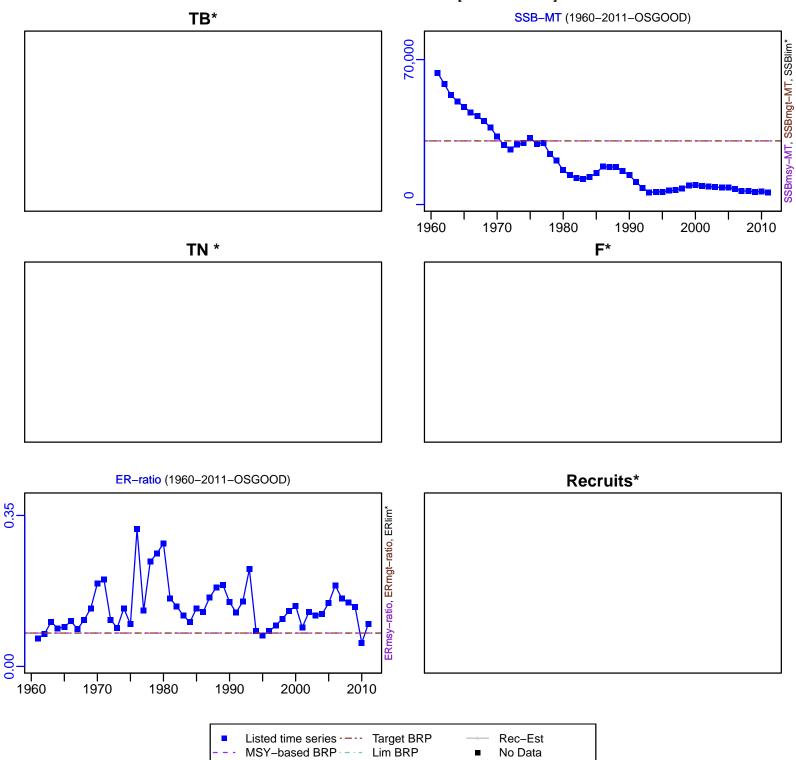


Metadata		
Scientific Name	Glyptocephalus cynoglossus	
Current Assess ID	DFO-SG-WITFLOUN4RST-1960-2011-OSGOOD	
Area Gulf of St. Lawrence		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Southern Gulf Region	
Asmts in RAM	2011	

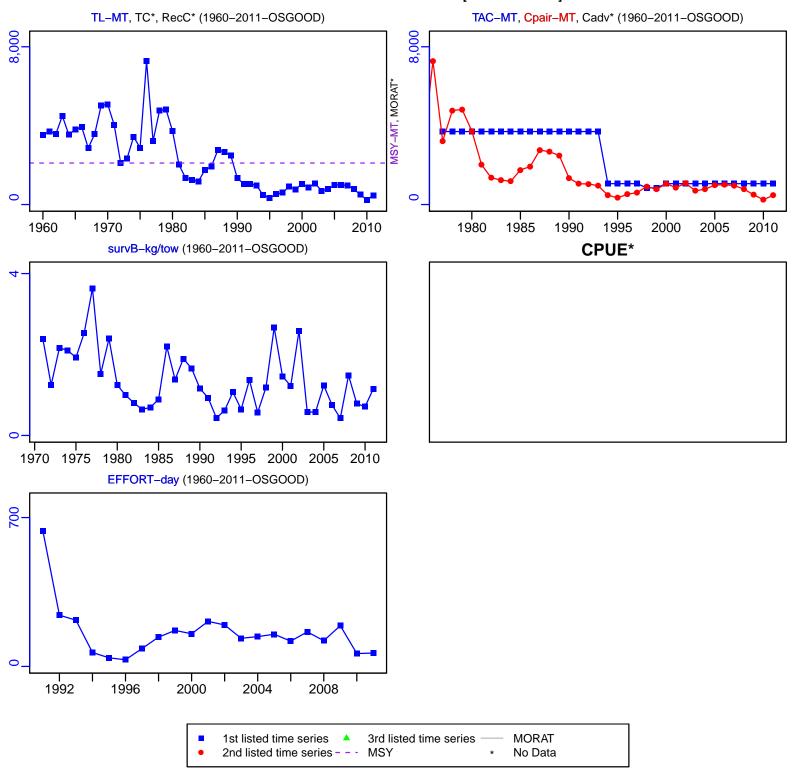
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2011	26,700		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2011	0.07		
TBmgt	-	-	-		
SSBmgt	SSBmgt-MT	2011	26,700		
Fmgt	-	-	-		
ERmgt	ERmgt-ratio	2011	0.07		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2011	1990		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2011	4990	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.09	Both	-
TC	-	-	-		
TL	TL-MT	2011	442		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.19		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	1.28		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.19		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





No Data



Metadata		
Scientific Name	Buccinum undatum	
Current Assess ID	DFO-QUE-WWHELKQCW-1987-2011-CHING	
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	

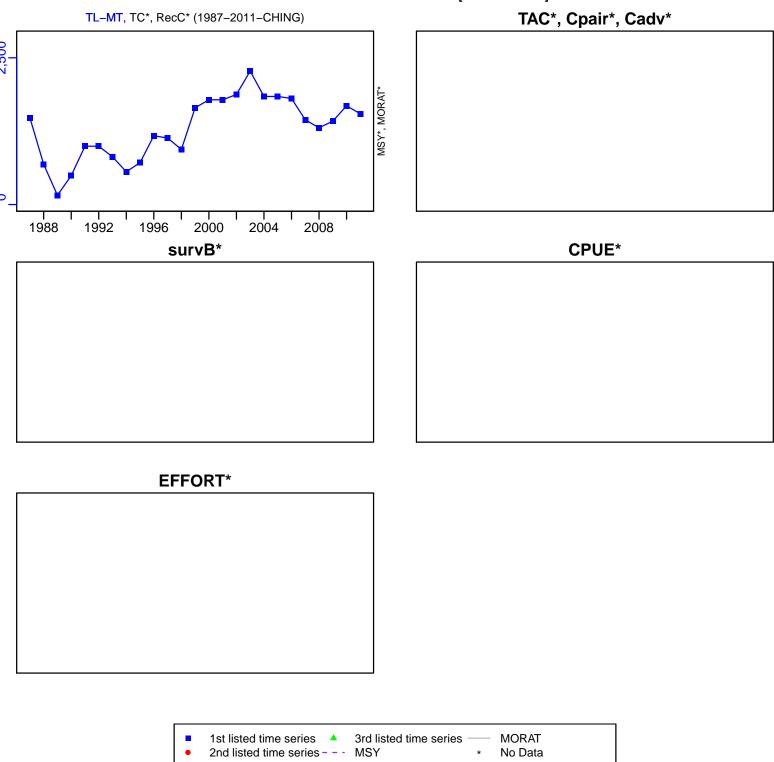
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2011	1360		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

◆ Start Year ◆ End Year \* No Data

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



Metadata			
Scientific Name Limanda ferruginea			
Current Assess ID	NAFO-SC-YELL3LNO-1960-2015-WATSON		
Area	Grand Banks		
Management Authority	Northwest Atlantic Fisheries Organization		
Assessor	NAFO Scientific Council		
Asmts in RAM	2009, 2015		

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2009	73,580	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2009	0.26	
ERmsy	ERmsy-ratio	2009	0.26	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2015	18,730	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2009	120,000	-	-
SSB	SSB-MT	2015	162,000	Females	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.13	-	-
ER	ER-calc-ratio	2015	0.02	-	-
TC	TC-MT	2015	7990		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2015	1.76		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2015	0.22		
ER/ERmsy	ER-ratio/ERmsy-ratio	2009	0.15		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

