Canada East Coast Stocks

v4.491 (Dec-21-2019)

Not present Present Preferred

		Time Ser	ies Types	
Stock	B/Bmsy	U/Umsy	B/Bmgt	U/Umgt
1. ACADRED2J3K [Acadian redfish NAFO Division 2J3K]	TB SSB	ER F	TB SSB	ER F
2. ACADRED3LNO-UT12 [Acadian redfish NAFO Division 3LNO and	TB SSB	ER F	TB SSB	ER F
Units 1 and 2]				
3. ACADREDUT3 [Acadian redfish Unit 3]	TB SSB TB SSB	ER F	TB SSB	ER F
4. AMPL23K [American plaice Labrador - NE Newfoundland]		ER F	TB SSB	ER F
5. AMPL3LNO [American plaice Grand Banks]	TB SSB	ER F	TB SSB	ER F
6. AMPL3M [American plaice Flemish Cap]	TB SSB	ER F	TB SSB	ER F
7. AMPL3Ps [American plaice St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
8. AMPL4T [American plaice Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
9. AMPL4VWX [American plaice Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
10. ARCSURF4RST [Arctic surfclam Quebec and Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
11. ARCSURFBANQ [Arctic surfclam Banquereau]	TB SSB	ER F	TB SSB	ER F
12. ARCSURFGB [Arctic surfclam Division 3LNO]	TB SSB	ER F	TB SSB	ER F
13. ARCSURFQCW [Arctic surfclam Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
14. ATHAL3NOPs4VWX5Zc [Atlantic halibut Scotian Shelf and Southern	TB SSB	ER F	TB SSB	ER F
Grand Banks]				
15. BSKATCANATL [Barndoor skate Canadian Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
16. CAPE4RST [Capelin Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
17. COD1abdce [Atlantic cod NAFO 1abdce]	TB SSB	ER F	TB SSB	ER F
18. COD1IN [Atlantic cod NAFO Subarea 1 (inshore)]	TB SSB	ER F	TB SSB	ER F
19. COD2J3KL [Atlantic cod Southern Labrador-Eastern Newfoundland]	TB SSB	ER F	TB SSB	ER F
20. COD3M [Atlantic cod Flemish Cap]	TB SSB	ER F	TB SSB	ER F
21. COD3NO [Atlantic cod Southern Grand Banks]	TB SSB	ER F	TB SSB	ER F
22. COD3Pn4RS [Atlantic cod Northern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
23. COD3Ps [Atlantic cod St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
24. COD4TVn [Atlantic cod Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
25. COD4VsW [Atlantic cod Eastern Scotian Shelf]	TB SSB	ER F	TB SSB	ER F
26. COD4X5Yb [Atlantic cod Western Scotian Shelf, Bay of Fundy and	TB SSB	ER F	TB SSB	ER F
Gulf of Maine]				
27. COD5Zjm [Atlantic cod NAFO 5Zjm]	TB SSB	ER F	TB SSB	ER F
28. CUSK4X [Cusk Western Scotian Shelf]	TB SSB	ER F	TB SSB	ER F
29. GHAL01ABCDEF [Greenland halibut NAFO divisions 01ABCDEF]	TB SSB	ER F	TB SSB	ER F
30. GHAL23KLMNO [Greenland halibut Labrador Shelf - Grand Banks]	TB SSB	ER F	TB SSB	ER F
31. GHAL4RST [Greenland halibut Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
32. GURCH4RST [Green sea urchin Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
33. HAD3LNO [Haddock Grand Banks]	TB SSB	ER F	TB SSB	ER F
34. HAD4X5Y [Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
35. HERR4RFA [Herring NAFO division 4R (Fall spawners)]	TB SSB	ER F	TB SSB	ER F

36. HERR4RSP [Herring NAFO division 4R (Spring spawners)]	TB SSB	ER F	TB SSB	ER F
37. HERR4S [Herring Quebec North Shore]	TB SSB	ER F	TB SSB	ER F
38. HERR4TFA [Herring Southern Gulf of St. Lawrence (Fall spawners)]	TB SSB	ER F	TB SSB	ER F
39. HERR4TSP [Herring Southern Gulf of St. Lawrence (Spring spawn-	TB SSB	ER F	TB SSB	ER F
ers)]	IB COB		15 005	
40. HERR4VWX [Herring Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
41. HERRNFLDESC [Herring Newfoundland East and South Coast]	TB SSB	ER F	TB SSB	ER F
42. LOBSTERLFA15-18 [American lobster Quebec North Shore and An-	TB SSB	ER F	TB SSB	ER F
ticosti Island (LFA 15-18)]	IB COB		15 005	
43. LOBSTERLFA19-21 [American lobster Gaspe (LFA 19-21)]	TB SSB	ER F	TB SSB	ER F
44. LOBSTERLFA22 [American lobster Magdalen Islands (LFA 22)]	TB SSB	ER F	TB SSB	ER F
45. LOBSTERLFA23-26AB [American lobster Southern Gulf of St.	TB SSB	ER F	TB SSB	ER F
Lawrence]	.5 005		12 002	
46. LOBSTERLFA27-33 [American lobster Atlantic Coast of Nova Scotia	TB SSB	ER F	TB SSB	ER F
(LFA 27-33)]	.5 005		12 002	
47. LOBSTERLFA3-14 [American lobster Lobster Fishing Areas 3-14]	TB SSB	ER F	TB SSB	ER F
48. LOBSTERLFA34 [American lobster Lobster Fishing Area 34]	TB SSB	ER F	TB SSB	ER F
49. LOBSTERLFA35-38 [American lobster Lobster Fishing Areas 35-38]	TB SSB	ER F	TB SSB	ER F
50. LOBSTERLFA41 [American lobster Lobster Fishing Area 41]	TB SSB	ER F	TB SSB	ER F
51. MACKNWATLSA3-4 [Mackerel Northwest Atlantic (NAFO Subareas	TB SSB	ER F	TB SSB	ER F
3 and 4)]	.5 005		12 002	
52. MONK3LNOPs [Monkfish NAFO Divisions 3LNOPs]	TB SSB	ER F	TB SSB	ER F
53. PANDAL4RST [Northern shrimp Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
54. PANDALSFA13-15 [Northern shrimp Eastern Scotian Shelf (SFA 13-	TB SSB	ER F	TB SSB	ER F
15)]				
55. PANDALSFA2-3 [Northern shrimp Shrimp Fishing Areas 2-3]	TB SSB	ER F	TB SSB	ER F
56. PANDALSFA4 [Northern shrimp Shrimp Fishing Area 4]	TB SSB	ER F	TB SSB	ER F
57. PANDALSFA5 [Northern shrimp Shrimp Fishing Area 5]	TB SSB	ER F	TB SSB	ER F
58. PANDALSFA6 [Northern shrimp Shrimp Fishing Area 6]	TB SSB	ER F	TB SSB	ER F
59. POLL3Ps [Pollock St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
60. POLL4VWX [Pollock Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
61. PORSHARATL [Porbeagle shark Canadian Atlantic Ocean]	TB SSB	ER F	TB SSB	ER F
62. REDDEEP2J3K-3LNO [Deepwater redfish NAFO Divisions 2J3K-	TB SSB	ER F	TB SSB	ER F
3LNO]				
63. REDDEEPUT12 [Deepwater redfish Units 1 and 2]	TB SSB	ER F	TB SSB	ER F
64. REDFISHSPP1 [Redfish species West Greenland]	TB SSB	ER F	TB SSB	ER F
65. REDFISHSPP3LN [Redfish species N and SW Grand Banks]	TB SSB	ER F	TB SSB	ER F
66. REDFISHSPP3M [Redfish species Flemish Cap]	TB SSB	ER F	TB SSB	ER F
67. REDFISHSPP3Pn4RSTVn [Redfish species Gulf of St. Lawrence	TB SSB	ER F	TB SSB	ER F
and Cabot Strait]				
68. ROCKCRABLFA23-26 [Rock crab Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
69. ROCKCRABQCW [Rock crab Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
70. SCALL3Ps [Sea scallop St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
71. SCALL4T [Sea scallop Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
72. SCALLGB [Sea scallop Georges Bank]	TB SSB	ER F	TB SSB	ER F
73. SCALLNBB [Sea scallop North Brown Bank]	TB SSB	ER F	TB SSB	ER F
74. SCALLSFA16-20 [Sea scallop Scallop Fishing Areas 16-20]	TB SSB	ER F	TB SSB	ER F
75. SCALLSPA1-6 [Sea scallop Bay of Fundy (SPA 1-6)]	TB SSB	ER F	TB SSB	ER F
76. SCALLWSFA29 [Sea scallop West Scallop Fishing Area 29]	TB SSB	ER F	TB SSB	ER F
			1	

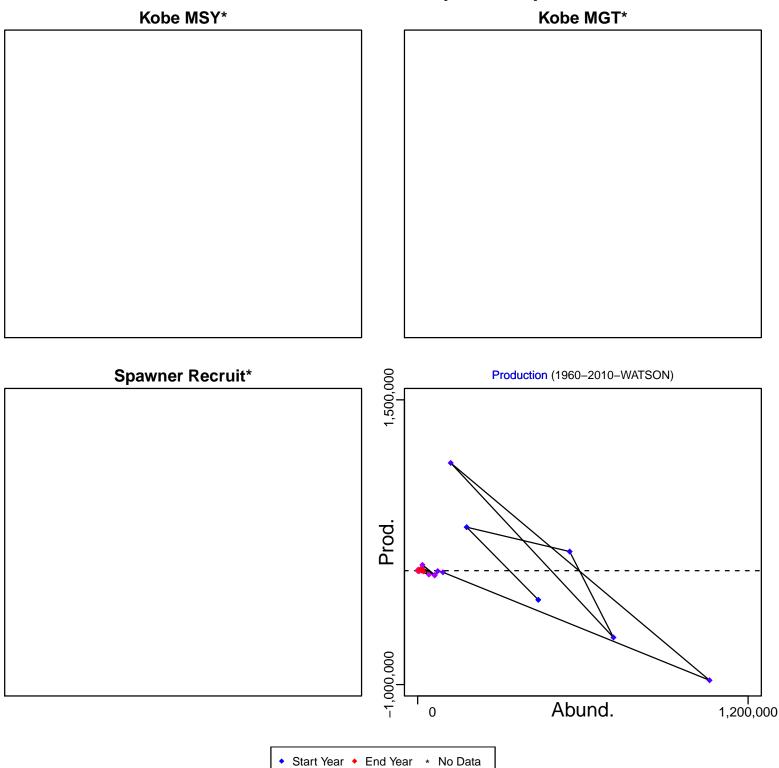
77. SDOG4VWX5 [Spiny dogfish Scotian Shelf, Bay of Fundy and	TB SSB	ER F	TB SSB	ER F
Georges Bank]				
78. SHAKE4VWX [Silver hake Scotian Shelf and Bay of Fundy]	TB SSB	ER F	TB SSB	ER F
79. SMOOTHSKA2J3K [Smooth skate NAFO Division 2J3K]	TB SSB	ER F	TB SSB	ER F
80. SMOOTHSKA4T [Smooth skate Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
81. SNOWCRAB2HJ [Snow crab Division 2HJ]	TB SSB	ER F	TB SSB	ER F
82. SNOWCRAB3K [Snow crab Division 3K]	TB SSB	ER F	TB SSB	ER F
83. SNOWCRAB3LNO [Snow crab Division 3LNO]	TB SSB	ER F	TB SSB	ER F
84. SNOWCRAB3Ps [Snow crab St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
85. SNOWCRAB4R3Pn [Snow crab Division 4R3Pn]	TB SSB	ER F	TB SSB	ER F
86. SNOWCRABSCMA12-17 [Snow crab Northern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
87. SNOWCRABSGSL [Snow crab Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
88. SSCLAMQCW [Softshell clam Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
89. STRSHRIMPSFA2-3 [Aesop shrimp Shrimp Fishing Areas 2-3]	TB SSB	ER F	TB SSB	ER F
90. TSKA3LNOPs [Thorny skate Grand Bank and St Pierre Bank]	TB SSB	ER F	TB SSB	ER F
91. TSKA4T [Thorny skate Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
92. WHAKE3Ps [White hake St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
93. WHAKE4RS [White hake Northern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
94. WHAKE4T [White hake Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
95. WHAKE4VWX5 [White hake Scotian Shelf, Bay of Fundy and	TB SSB	ER F	TB SSB	ER F
Georges Bank]				
96. WINFLOUN4T [Winter flounder Southern Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
97. WITFLOUN3Ps [Witch flounder St. Pierre Bank]	TB SSB	ER F	TB SSB	ER F
98. WITFLOUN4RST [Witch flounder Gulf of St. Lawrence]	TB SSB	ER F	TB SSB	ER F
99. WWHELKQCW [Waved whelk Quebec Coastal Waters]	TB SSB	ER F	TB SSB	ER F
100. YELL3LNO [Yellowtail flounder Grand Banks]	TB SSB	ER F	TB SSB	ER F

Acadian redfish NAFO Division 2J3K [ACADRED2J3K]

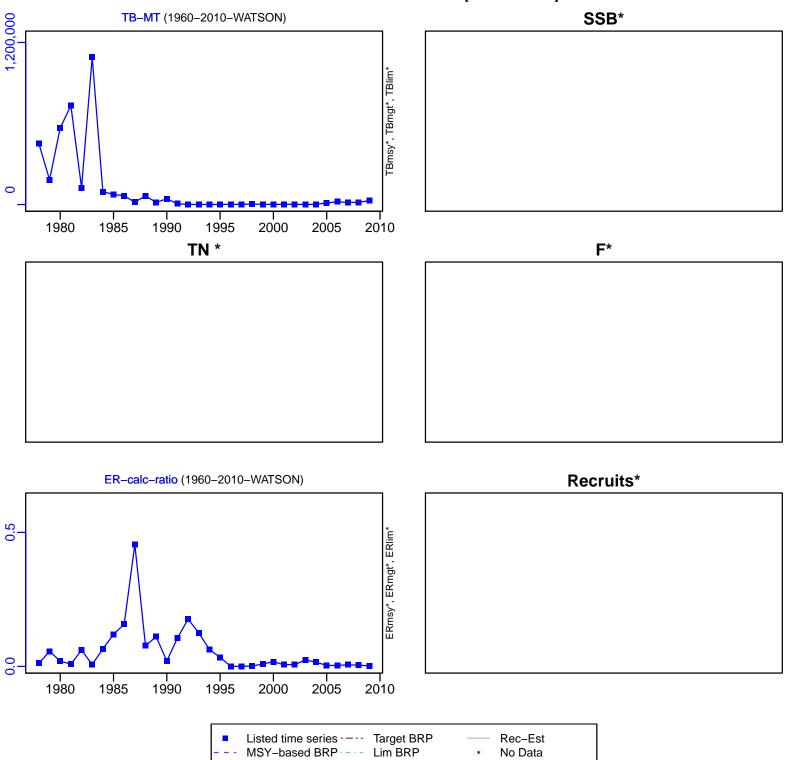
Metadata			
Scientific Name	Sebastes fasciatus		
Current Assess ID	DFO-ACADRED2J3K-1960-2010-WATSON		
Area NAFO Division 2J3K			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor Department of Fisheries and Oceans			
Asmts in RAM	2010		

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	3000		
M	-	-	-		
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	0.002	-	-
TC	TC-MT	2010	49		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

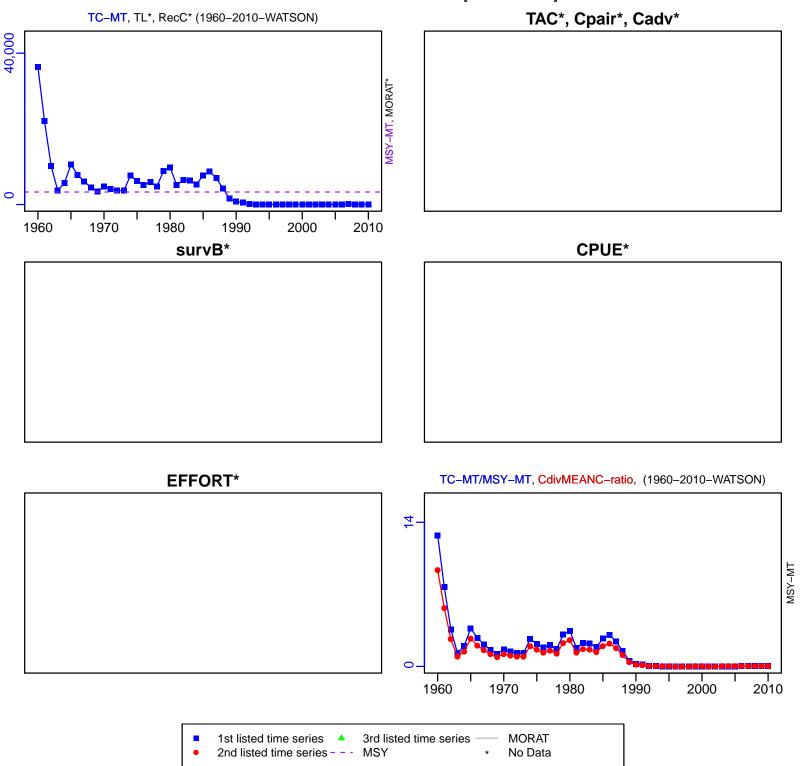


Acadian redfish NAFO Division 2J3K [ACADRED2J3K]



No Data

Acadian redfish NAFO Division 2J3K [ACADRED2J3K]



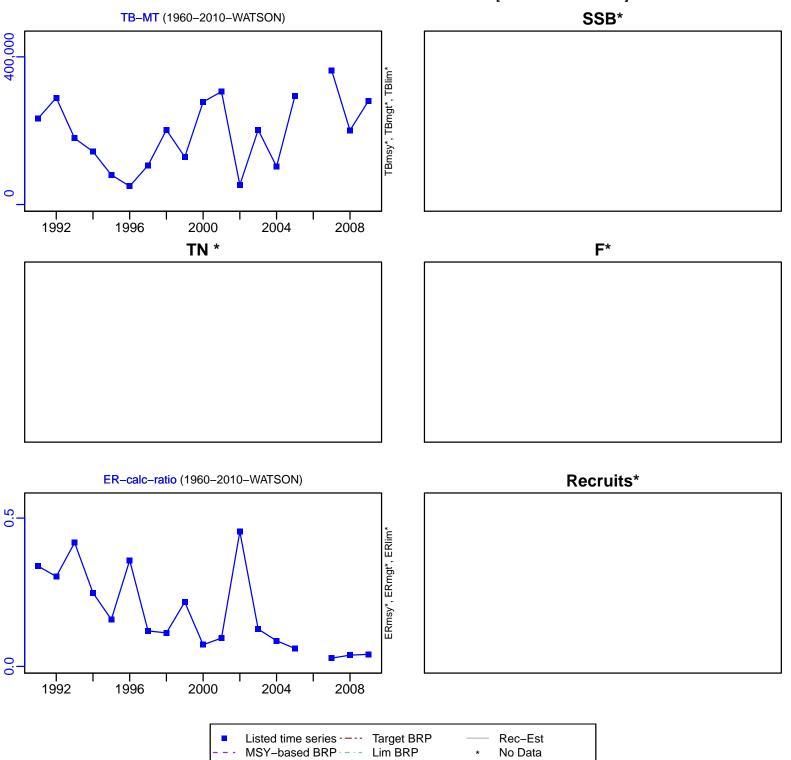
Metadata			
Scientific Name	Sebastes fasciatus		
Current Assess ID	DFO-ACADRED3LNO-UT12-1960-2010-WATSON		
Area	NAFO Division 3LNO and Units 1 and 2		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2010		

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	-	-	-	

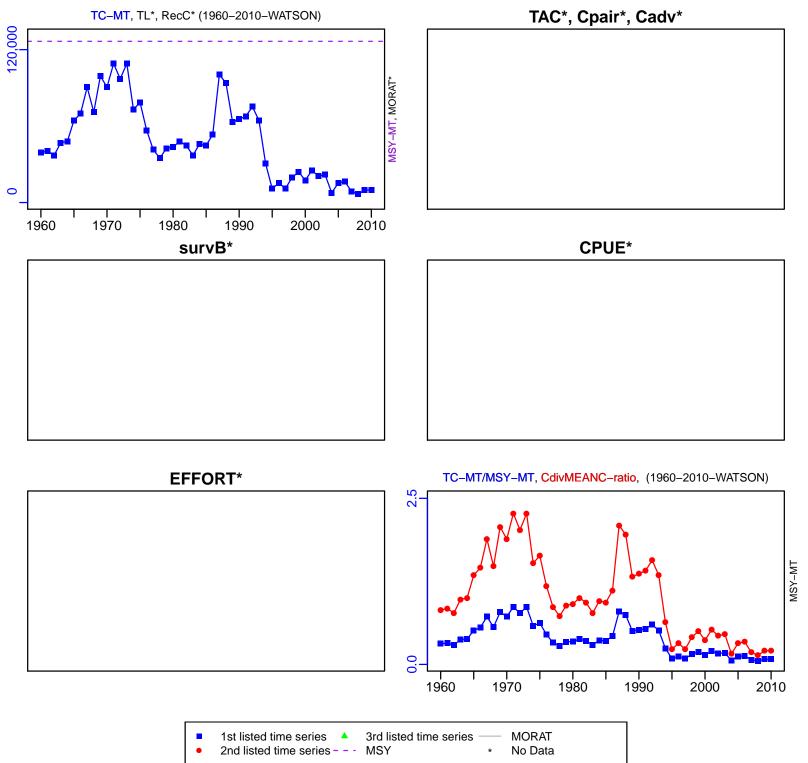
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2010	248,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2010	0.036	-	-
TC	TC-MT	2010	9000		,,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



No Data

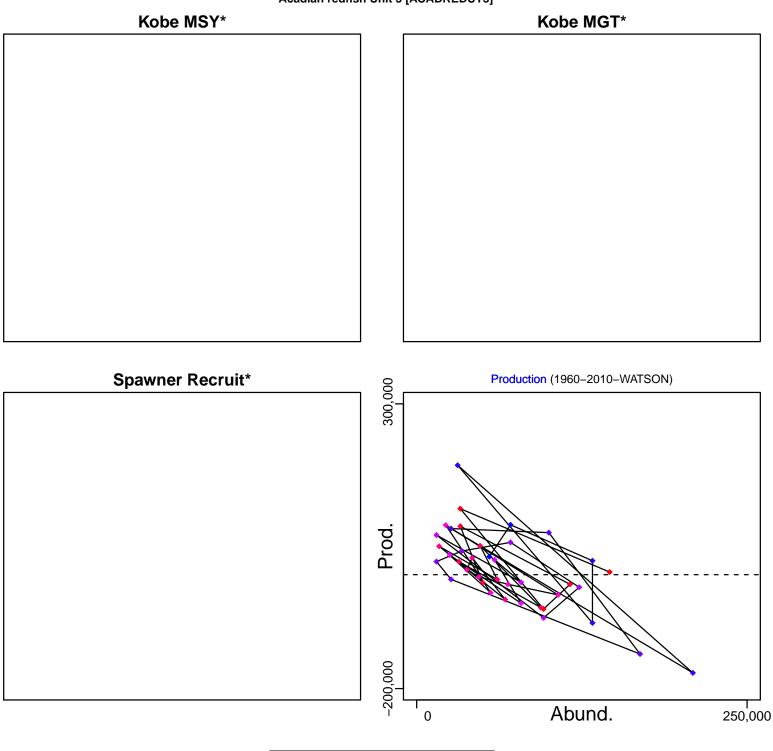


Acadian redfish Unit 3 [ACADREDUT3]

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		

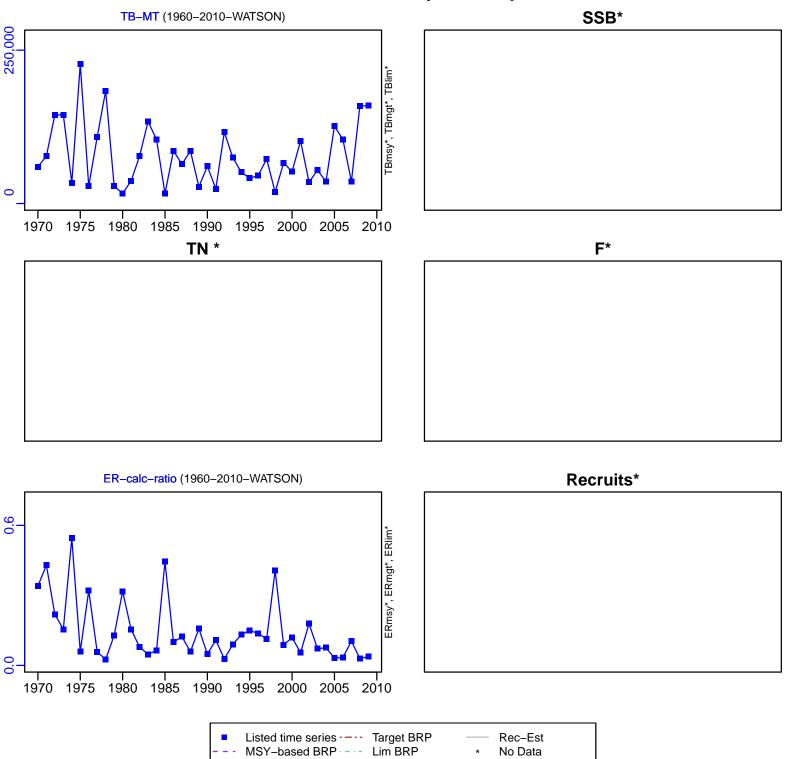
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	MSY-MT	2010	131,000		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	0.031	-	-	
TC	TC-MT	2010	5200			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

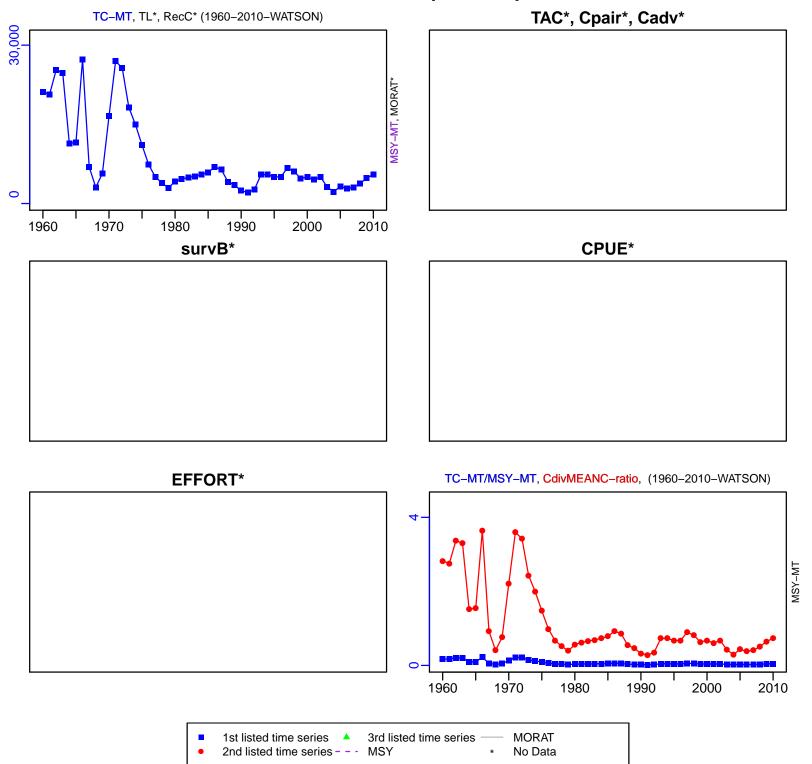


Start Year • End Year * No Data

Acadian redfish Unit 3 [ACADREDUT3]



Acadian redfish Unit 3 [ACADREDUT3]

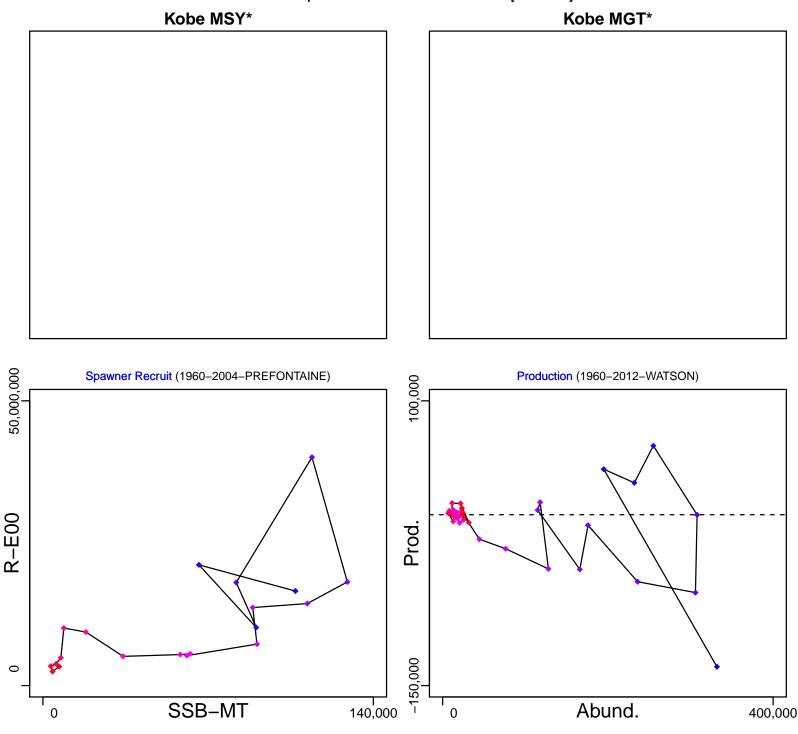


American plaice Labrador - NE Newfoundland [AMPL23K]

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 manageme				
Assessor Department of Fisheries and Oceans				
Asmts in RAM 2012, 2004				

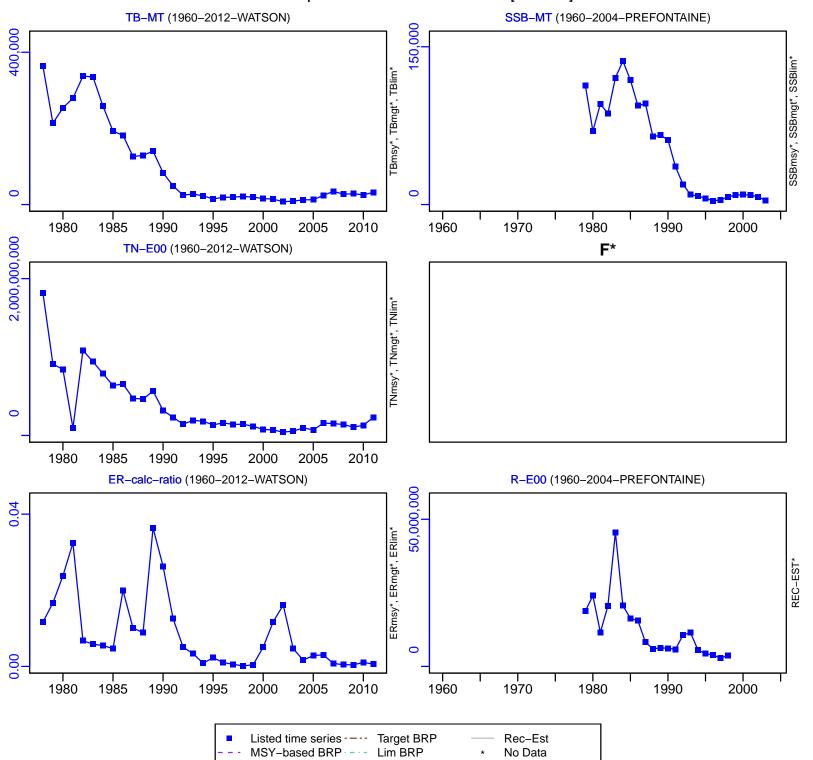
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	2.17×10^{8}	-	-
R	R-E00	2004	3,330,000	-	3+
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.001	-	-
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	-	-	-		

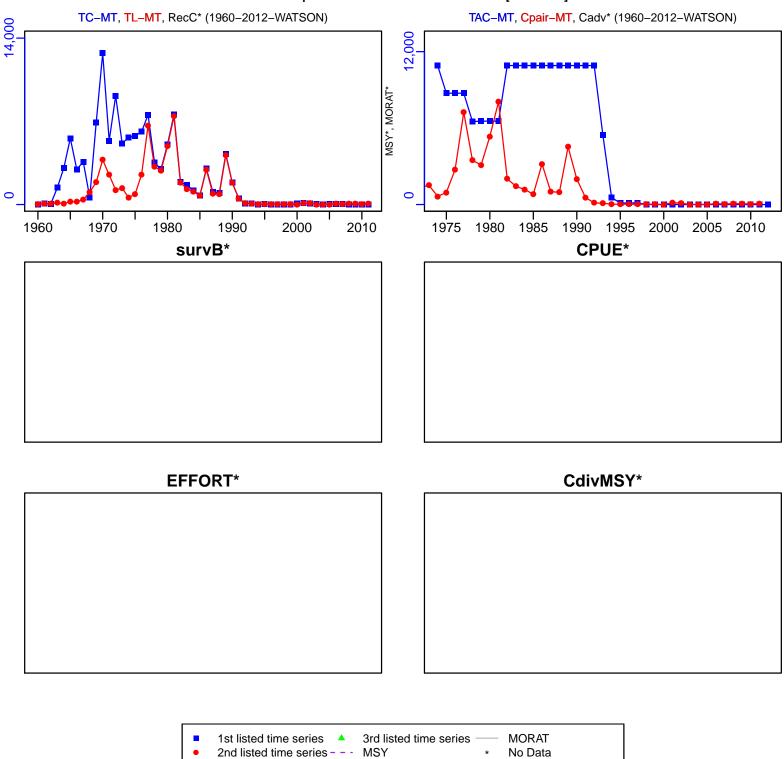


Start Year ◆ End Year * No Data

American plaice Labrador - NE Newfoundland [AMPL23K]



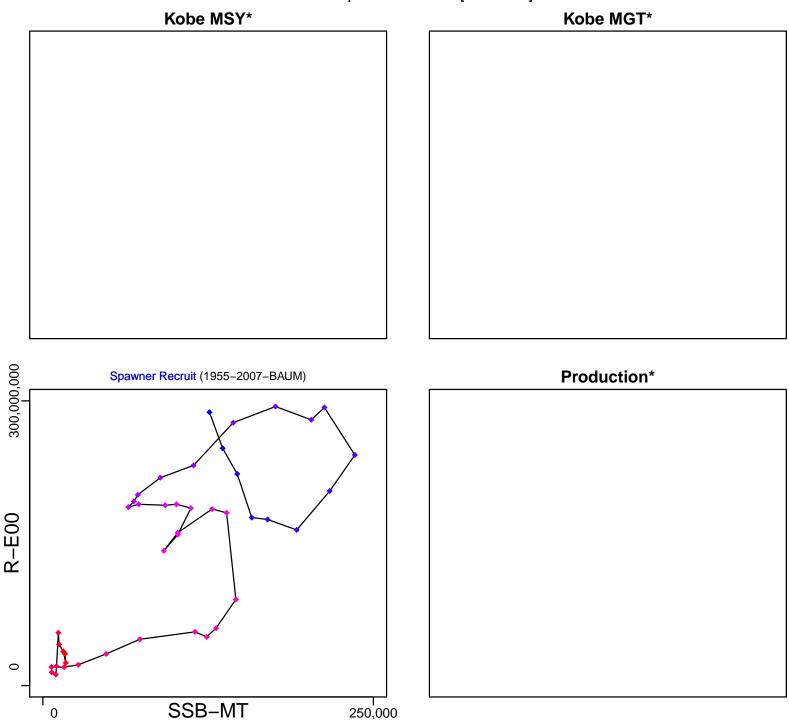
American plaice Labrador - NE Newfoundland [AMPL23K]



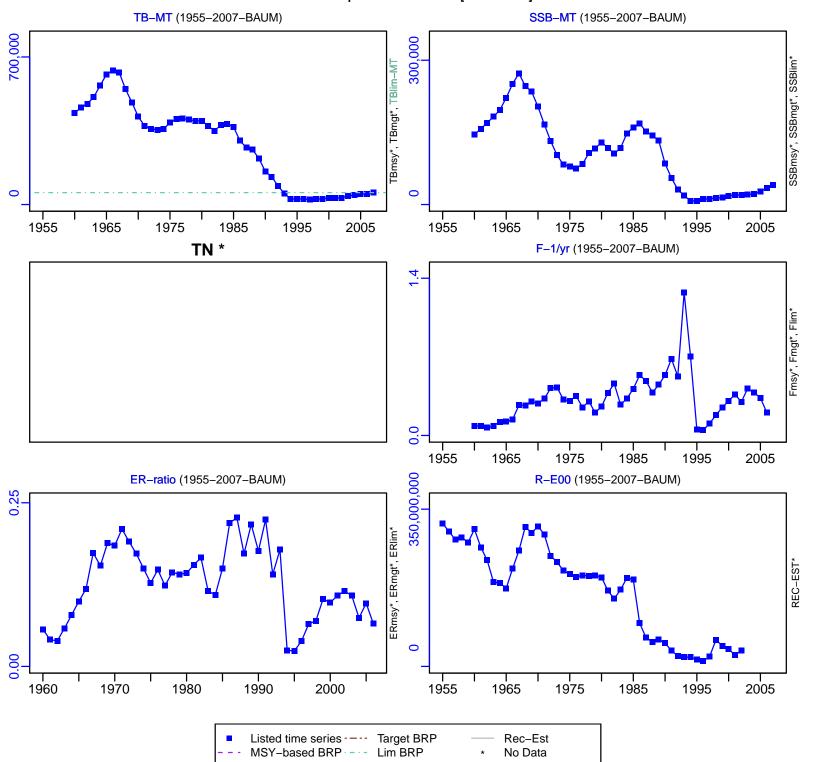
Metadata				
Scientific Name Hippoglossoides platessoides				
Current Assess ID NAFO-SC-AMPL3LNO-1955-2007-BAU				
Area Grand Banks				
Management Authority	Northwest Atlantic Fisheries Organization			
Assessor NAFO Scientific Council				
Asmts in RAM 2007				

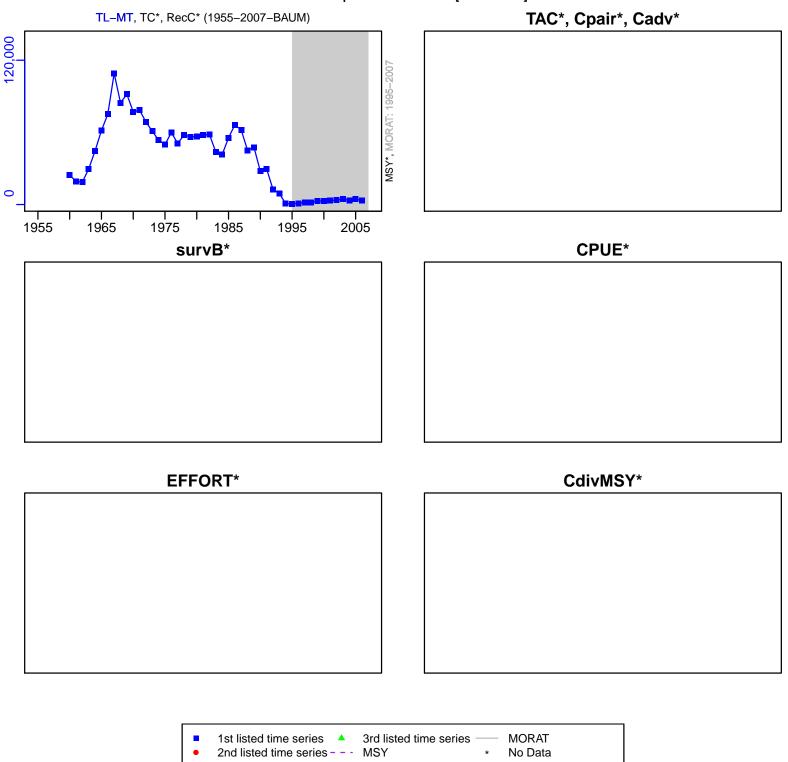
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	M-1/yr	2007	0.2			
TBlim	TBlim-MT	2007	50,000			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-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

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	0.193	Both	9 to 14
ER	ER-ratio	2007	0.064	-	-
TC	-	-	-		
TL	TL-MT	2007	2830		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data



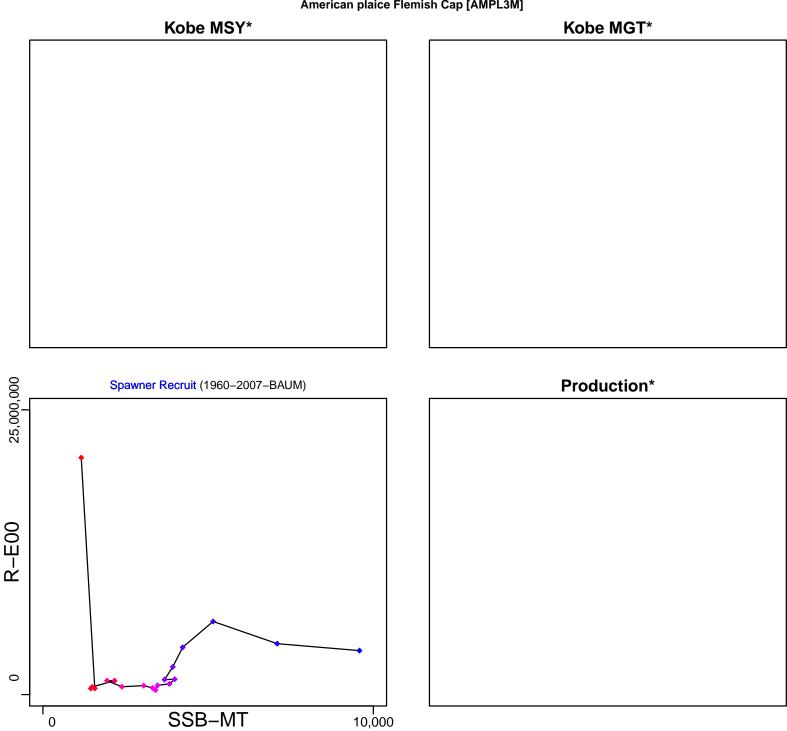


American plaice Flemish Cap [AMPL3M]

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

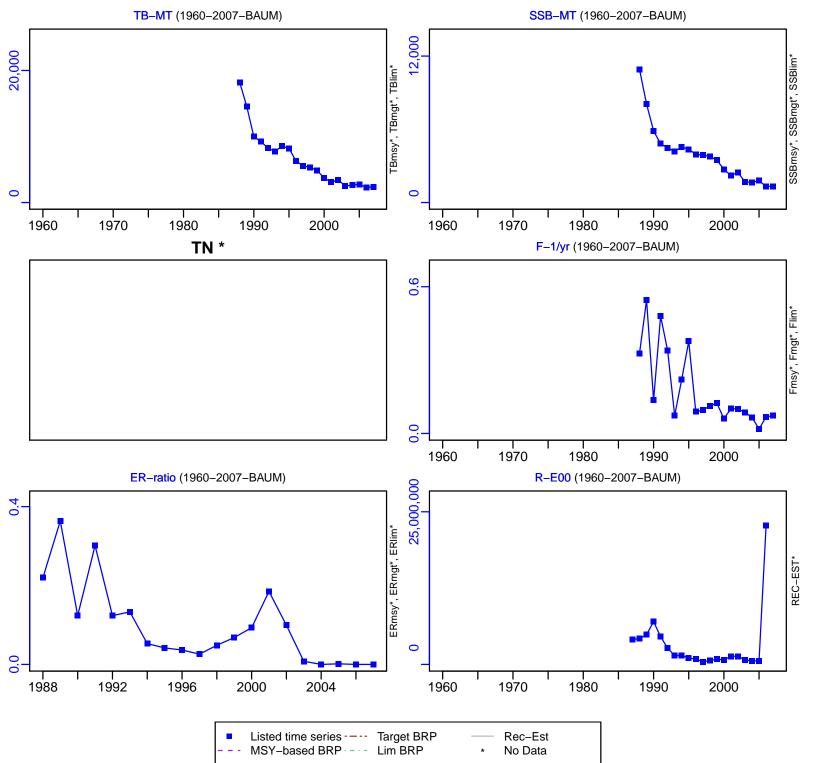
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	M-1/yr	2007	0.2			
TBlim	-	-	-			
SSBlim	-	-	-			
Flim	-	-	-			
ERlim	-	-	-			

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
TB	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	0.064	-	3 to 13
ER	ER-ratio	2007	0	-	-
TC	TC-MT	2007	0		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	ı	-	-		
F/Fmsy	1	-	-		
ER/ERmsy	•	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

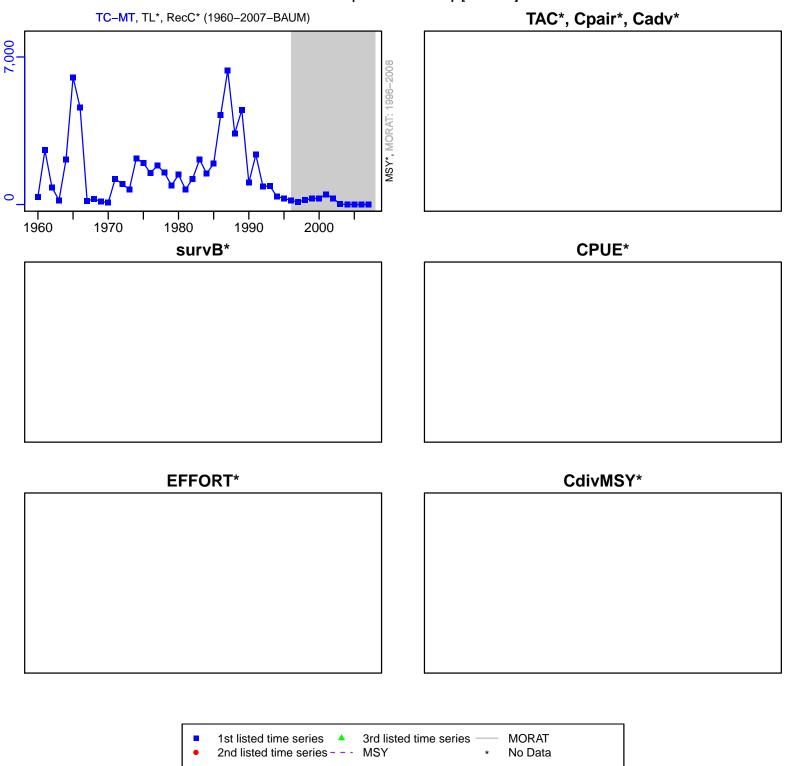


Start Year → End Year → No Data

American plaice Flemish Cap [AMPL3M]



American plaice Flemish Cap [AMPL3M]



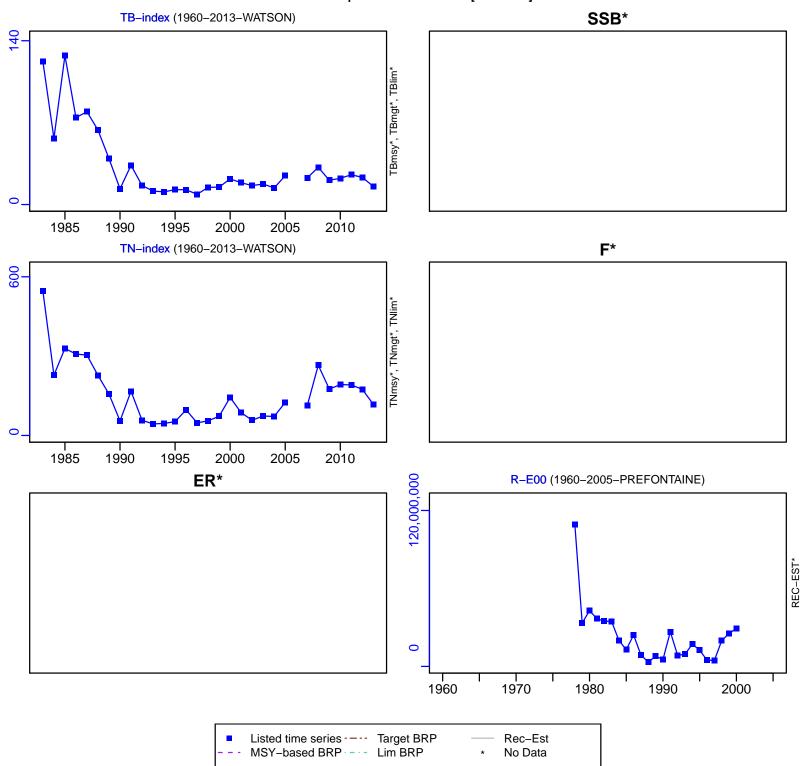
Metadata				
Scientific Name	Hippoglossoides platessoides			
Current Assess ID DFO-AMPL3Ps-1960-2013-WATSON				
Area St. Pierre Bank				
Management Authority Department of Fisheries and Oceans, Canada national management				
Assessor Department of Fisheries and Oceans				
Asmts in RAM	2013, 2005			

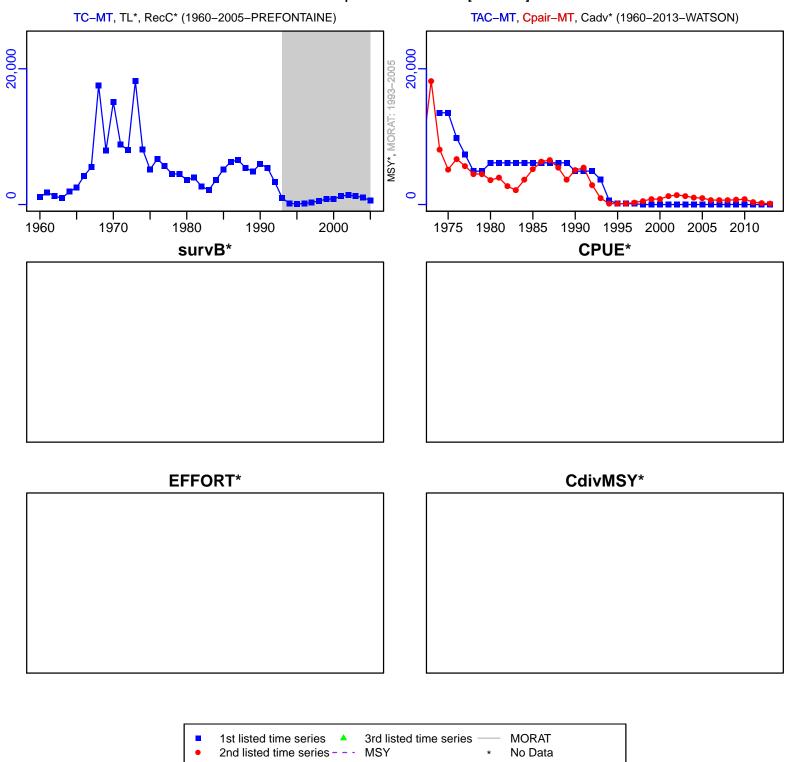
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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*
	J
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



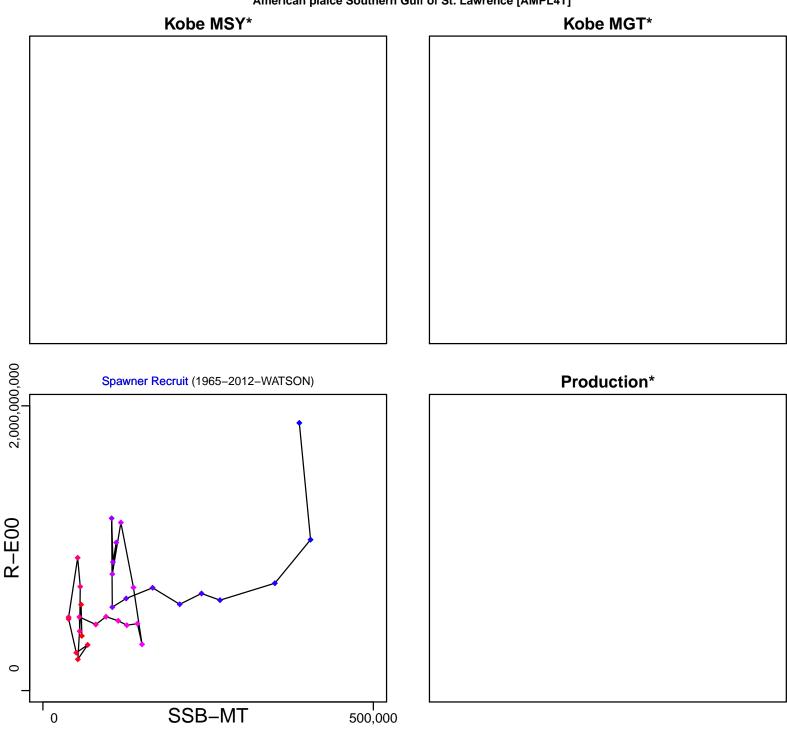


American plaice Southern Gulf of St. Lawrence [AMPL4T]

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 manage				
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2012			

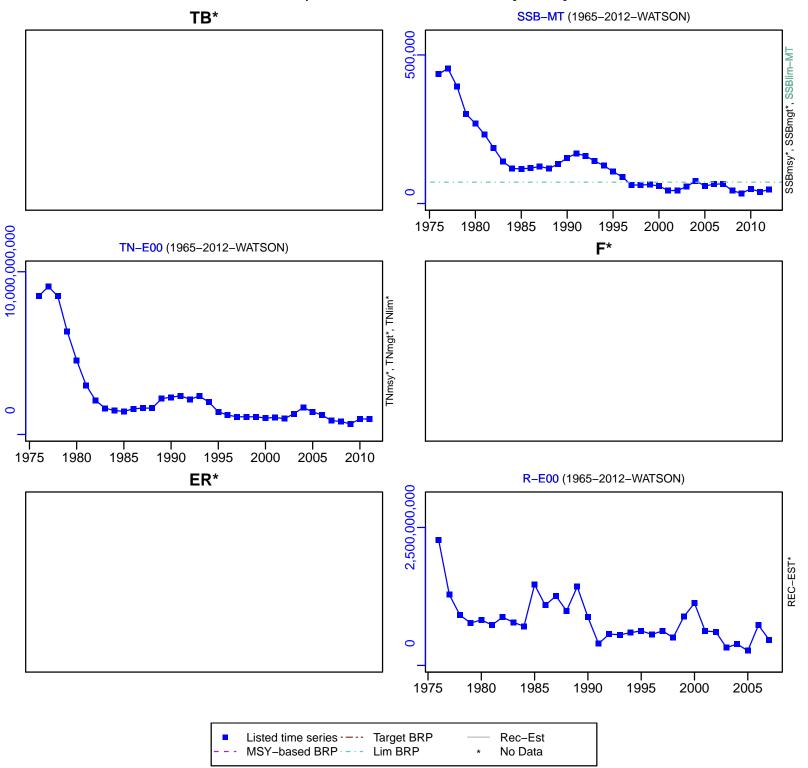
Reference Points					
Туре	ID	Value			
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2012	64,000		
Flim	-	-	-		
ERlim	-	-	-		

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

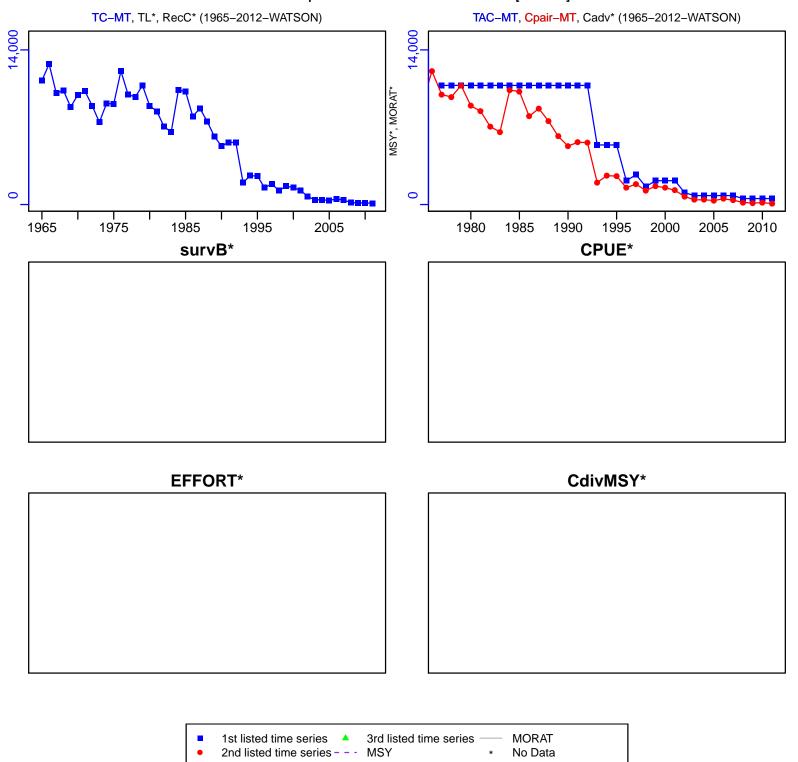


Start Year • End Year * No Data

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			

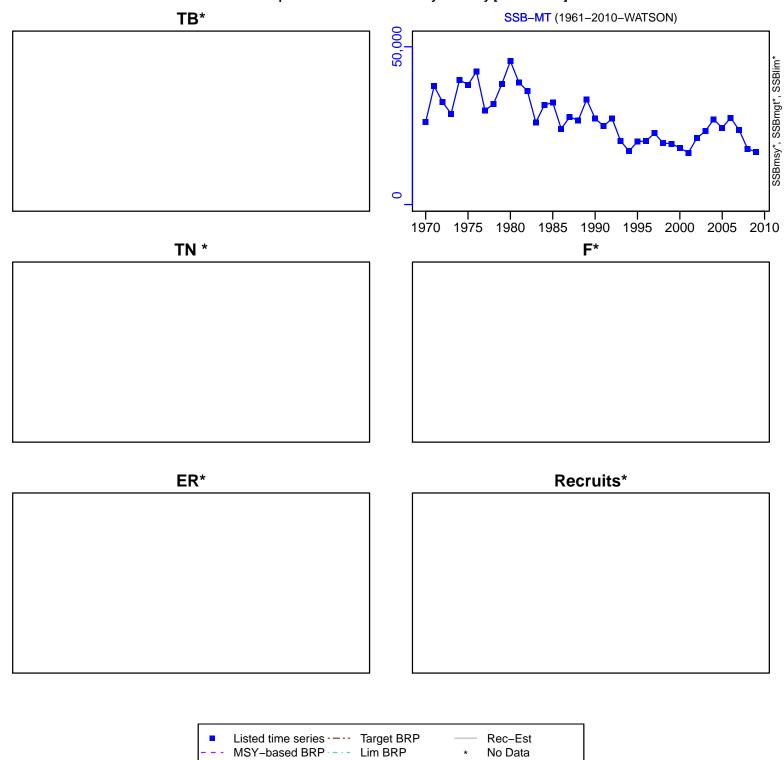
Reference Points							
Туре							
TBmsy	-	-	-				
SSBmsy	-	-	-				
Fmsy	-	-	-				
ERmsy	-	-	-				
TBmgt	-	-	-				
SSBmgt	-	-	-				
Fmgt	-	-	-				
ERmgt	-	-	-				
TB0	-	-	-				
SSB0	-	-	-				
MSY	MSY-MT	2010	5113				
M	-	-	-				
TBlim	-	-	-				
SSBlim	-	-	-				
Flim	-	-	-				
ERlim	-	-	-				

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

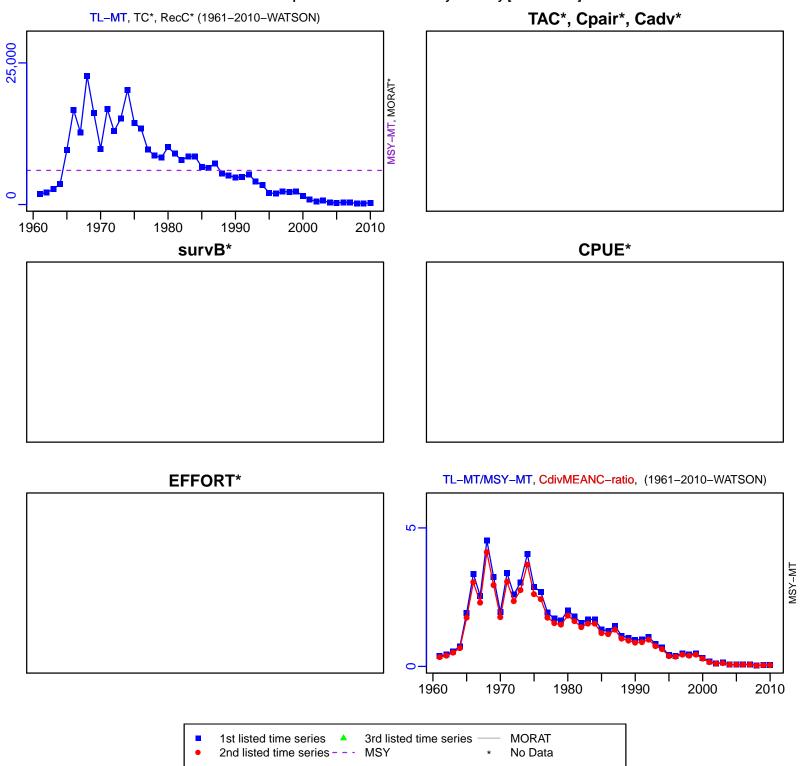
American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]



American plaice Scotian Shelf and Bay of Fundy [AMPL4VWX]



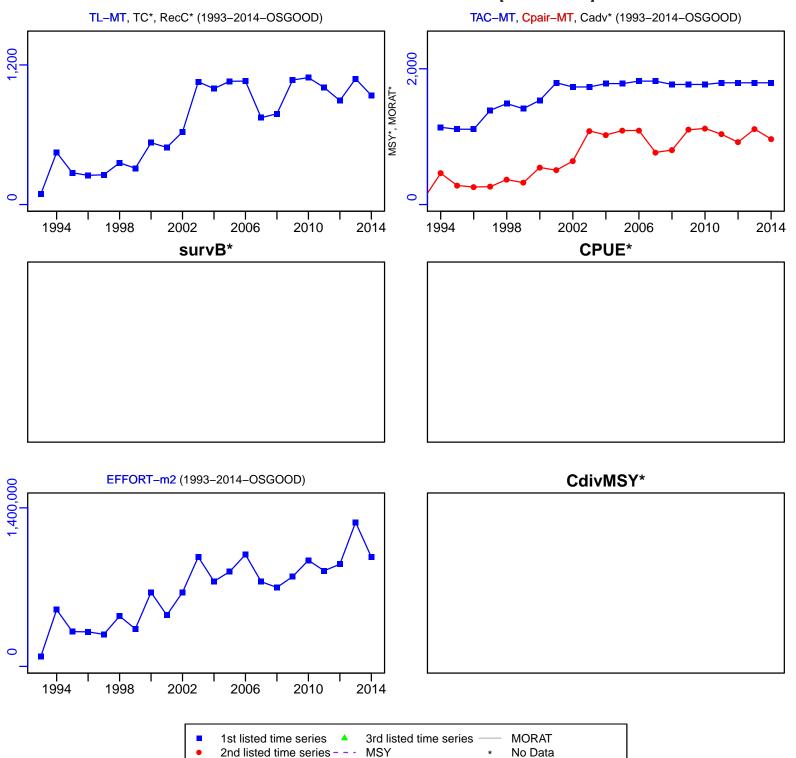
Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-QUE-ARCSURF4RST-1993-2014-OSGOOD	
Area	Quebec and Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM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

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

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

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



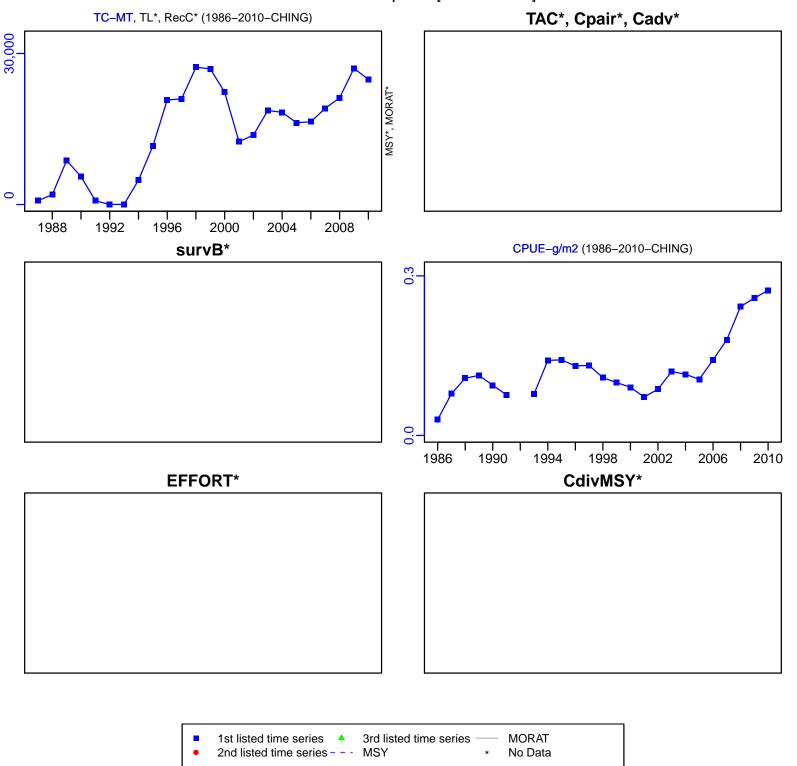
Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-MAR-ARCSURFBANQ-1986-2010-CHING	
Area	Banquereau	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2010	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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*

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



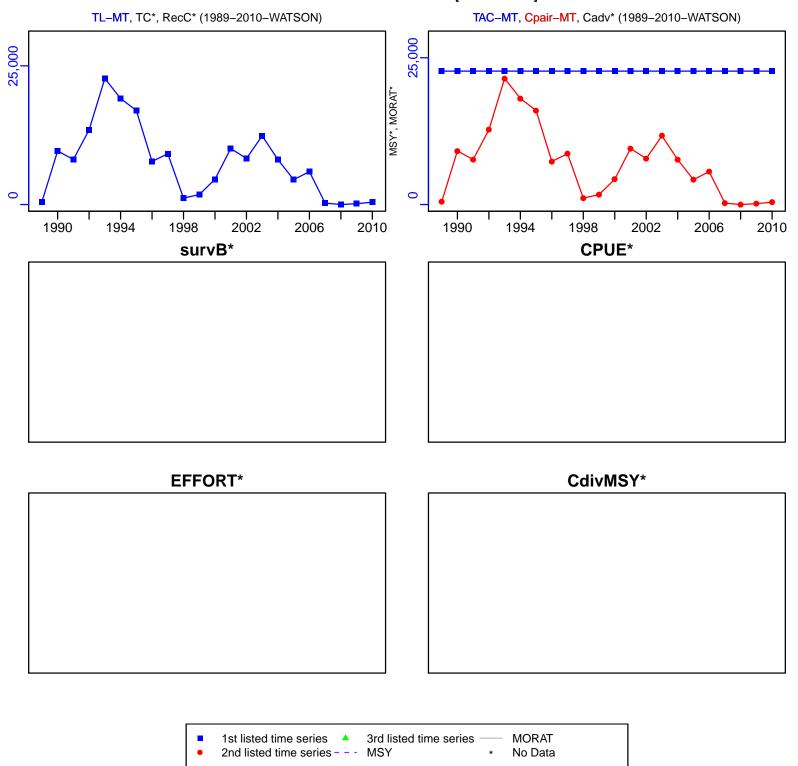
Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-ARCSURFGB-1989-2010-WATSON	
Area	Division 3LNO	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2010	

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

Time Series							
Туре	ID Asmt Year Curr Value Sex A						
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*

TB*	SSB*
TN *	F*
FD.	D
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
	im BRP * No Data



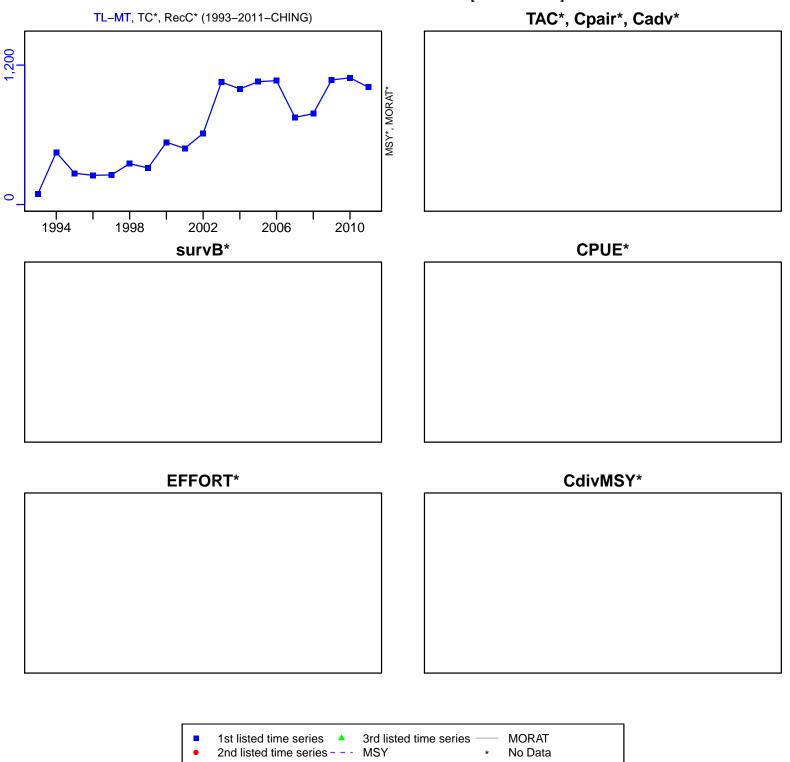
Metadata		
Scientific Name	Mactromeris polynyma	
Current Assess ID	DFO-QUE-ARCSURFQCW-1993-2011-CHING	
Area	Quebec Coastal Waters	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Quebec Region	
Asmts in RAM	2011	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
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	2011	844				
TB/TBmsy	-	-	-				
SSB/SSBmsy	-	-	-				
F/Fmsy	-	-	-				
ER/ERmsy	-	-	-				
TB/TBmgt	-	-	-				
SSB/SSBmgt	-	-	-				
F/Fmgt	-	-	-				
ER/ERmgt	-	-	-				

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

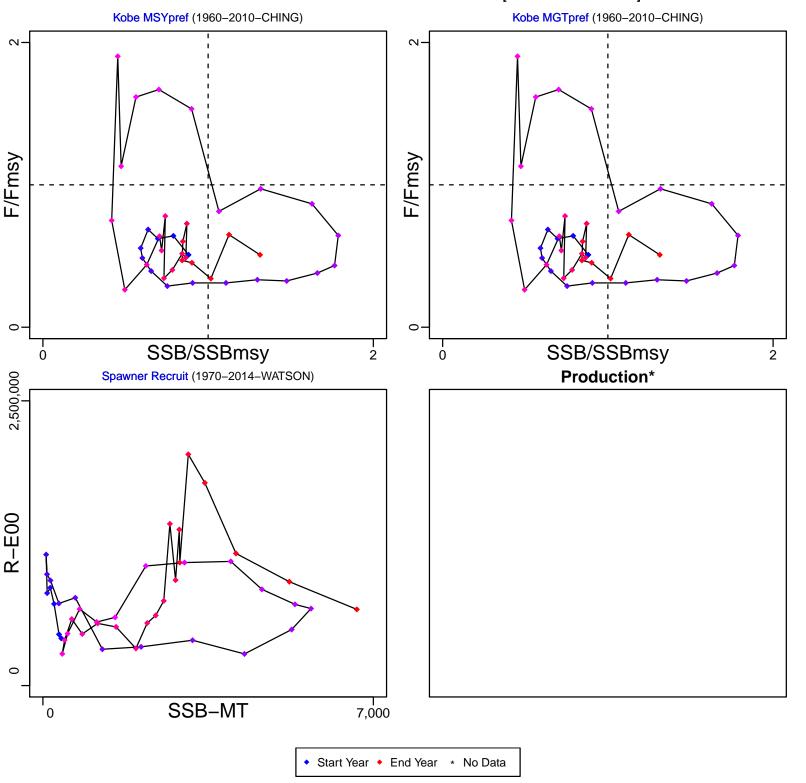
TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data

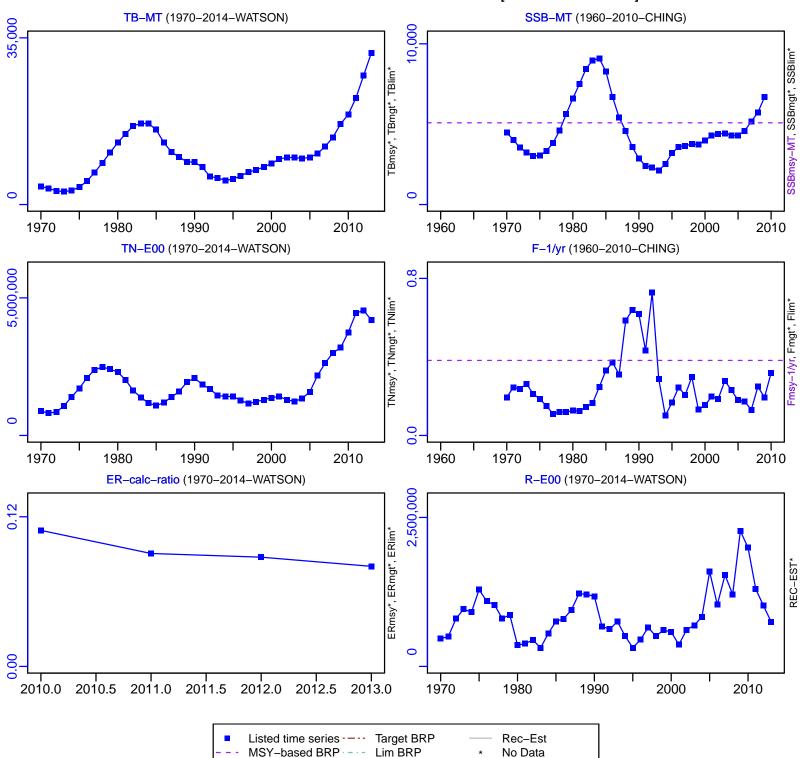


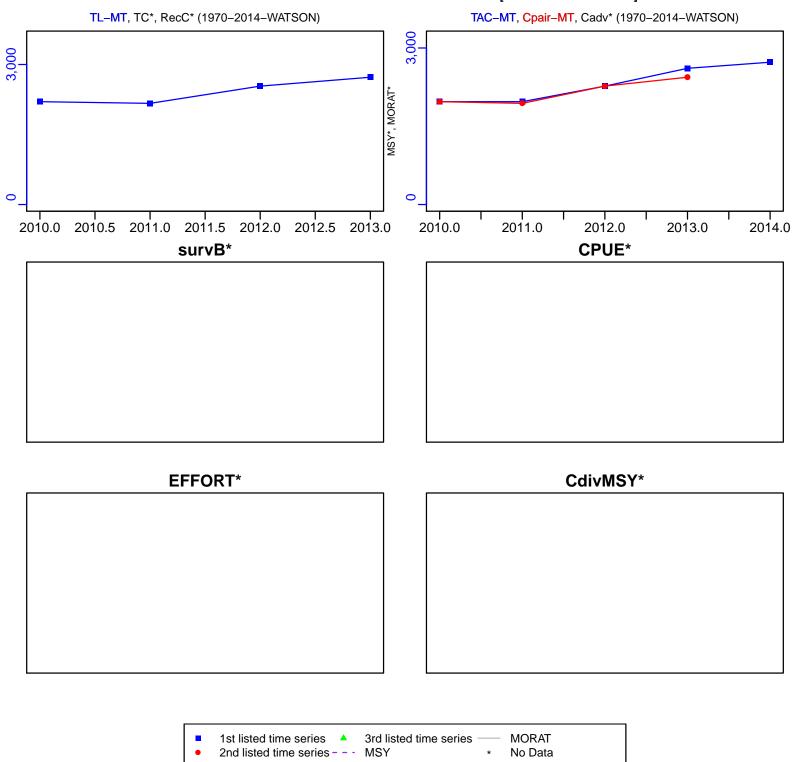
Metadata		
Scientific Name Hippoglossus hippoglossus		
Current Assess ID	DFO-ATHAL3NOPs4VWX5Zc-1970-2014-WATSON	
Area Scotian Shelf and Southern Grand Banks		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	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	-	-	-		
M	-	-	-		
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	0.072	-	-
TC	-	-	-		
TL	TL-MT	2014	2290		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	1.314		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.833		
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*

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

Lim BRP

No Data

MSY-based BRP · - · -

TC*, TL*, RecC*	TAC*, Cpair*, Cadv*
survB*	CPUE*
EFFORT*	CdivMSY*
LITORI	
	•
Г	
■ 1st listed time series ▲ 3rd	listed time series — MORAT I

No Data

2nd listed time series - - - MSY

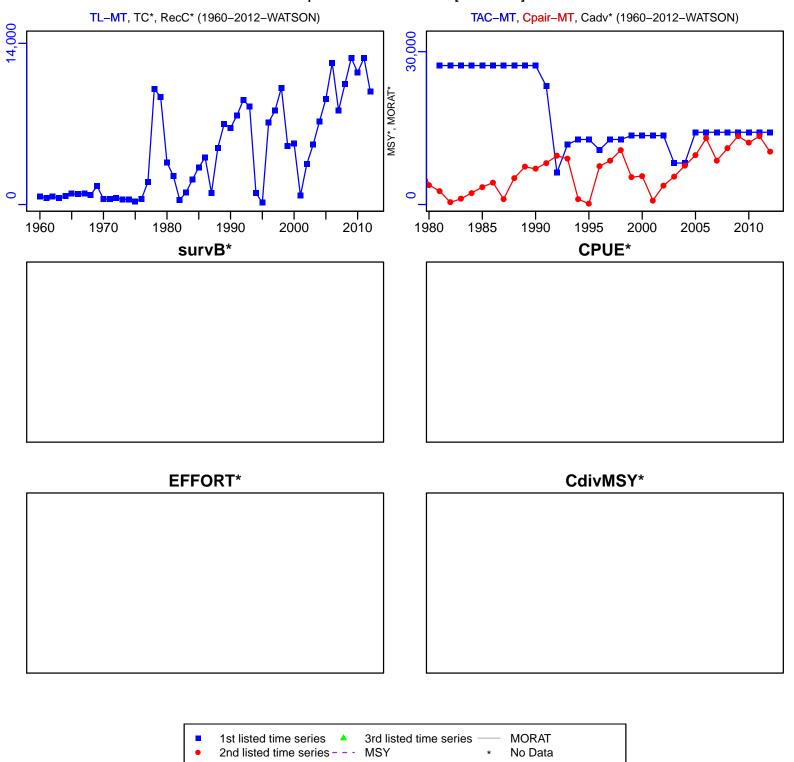
Metadata		
Scientific Name	Mallotus villosus	
Current Assess ID	DFO-CAPE4RST-1960-2012-WATSON	
Area	Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2012, 2010	

Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
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	9470		
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*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data



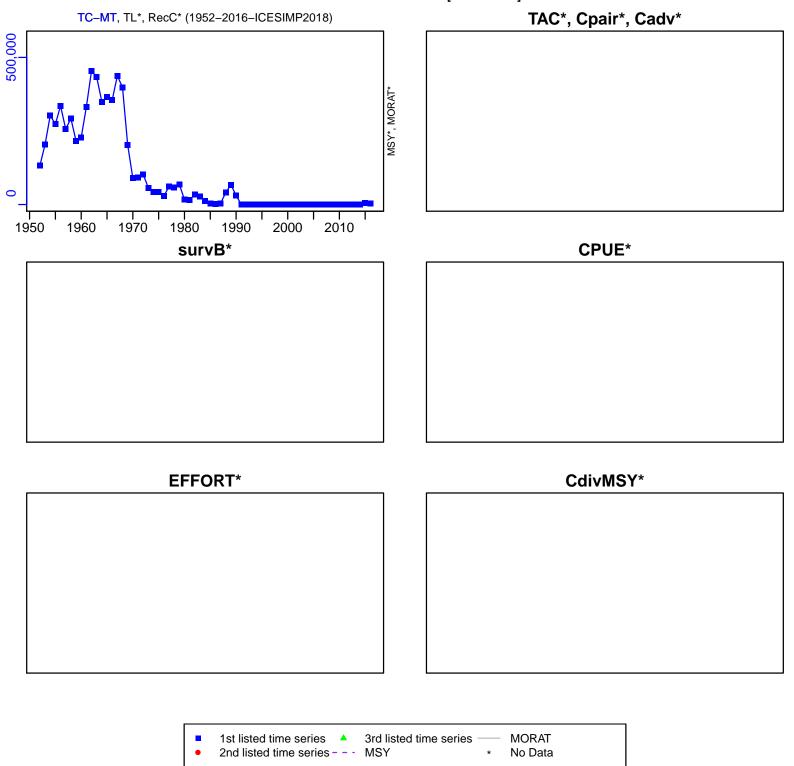
Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	NWWG-COD1abdce-1952-2016-ICESIMP2018	
Area	NAFO 1abdce	
Management Authority	International Council for the Exploration of the Sea	
Assessor	North-Western Working Group	
Asmts in RAM	2015, 2016	

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	2016	3740		
TL	TL-MT	2015	4860		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
	J
Spawner Recruit*	Production*

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



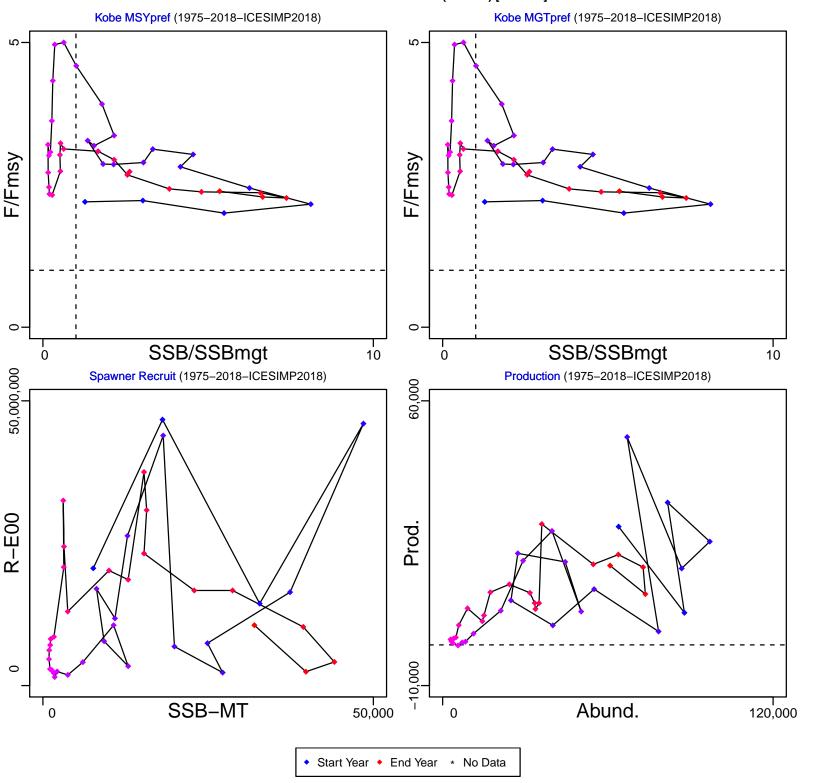
Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

Metadata			
Scientific Name	Gadus morhua		
Current Assess ID	NWWG-COD1IN-1975-2018-ICESIMP2018		
Area	NAFO Subarea 1 (inshore)		
Management Authority	International Council for the Exploration of the Sea		
Assessor	North-Western Working Group		
Asmts in RAM	2016, 2016, 2018		

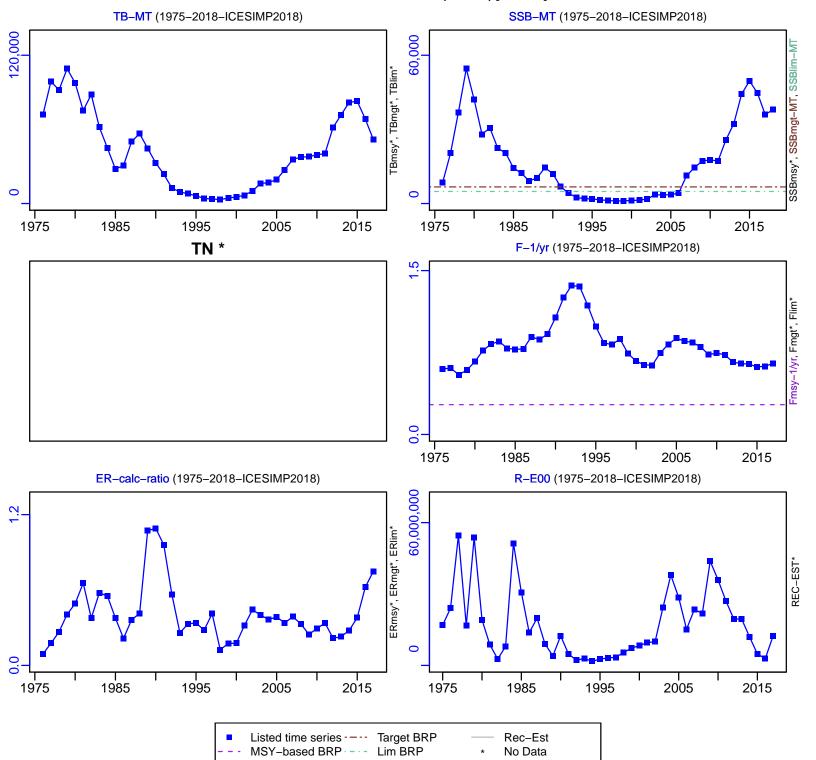
Reference Points				
Type	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2018	0.268	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2018	5983	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2018	4346	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	46,100	Both	-
SSB	SSB-MT	2018	33,800	Both	-
TN	-	-	-	-	-
R	R-E00	2018	10,600,000	-	1
F	F-1/yr	2018	0.64	-	4 to 8
ER	ER-calc-ratio	2018	0.677	-	-
TC	TC-MT	2016	25,300		
TL	TL-MT	2018	31,200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	2.388		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2018	5.649		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

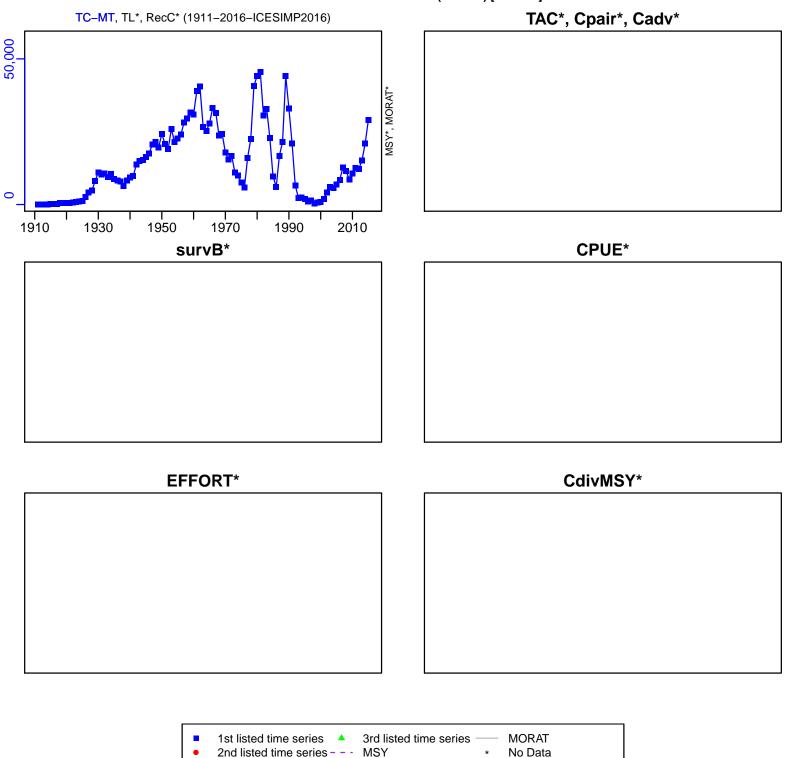
Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]



Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]



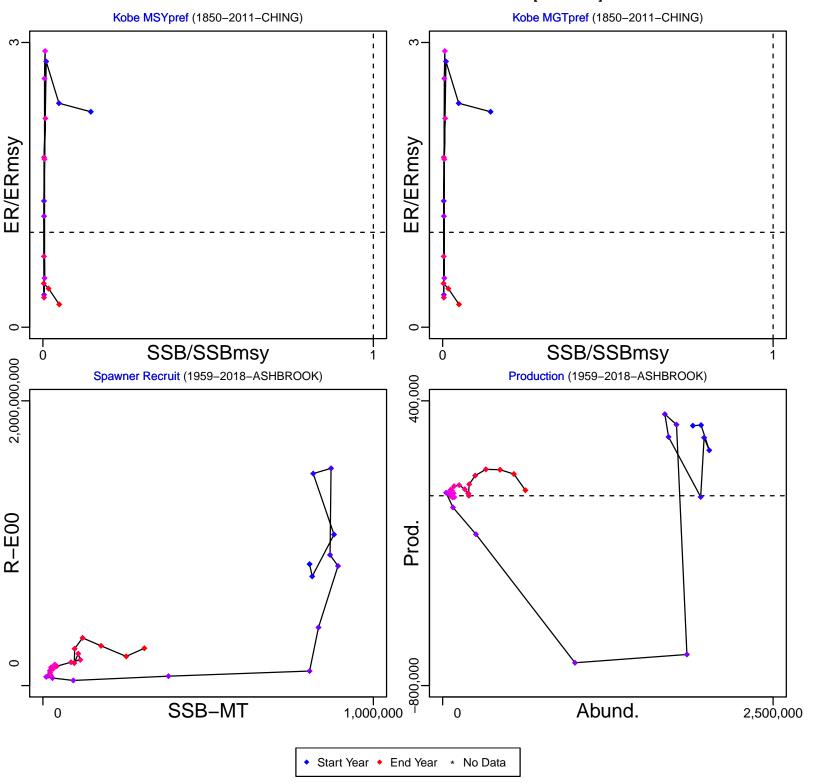
Atlantic cod NAFO Subarea 1 (inshore) [COD1IN]

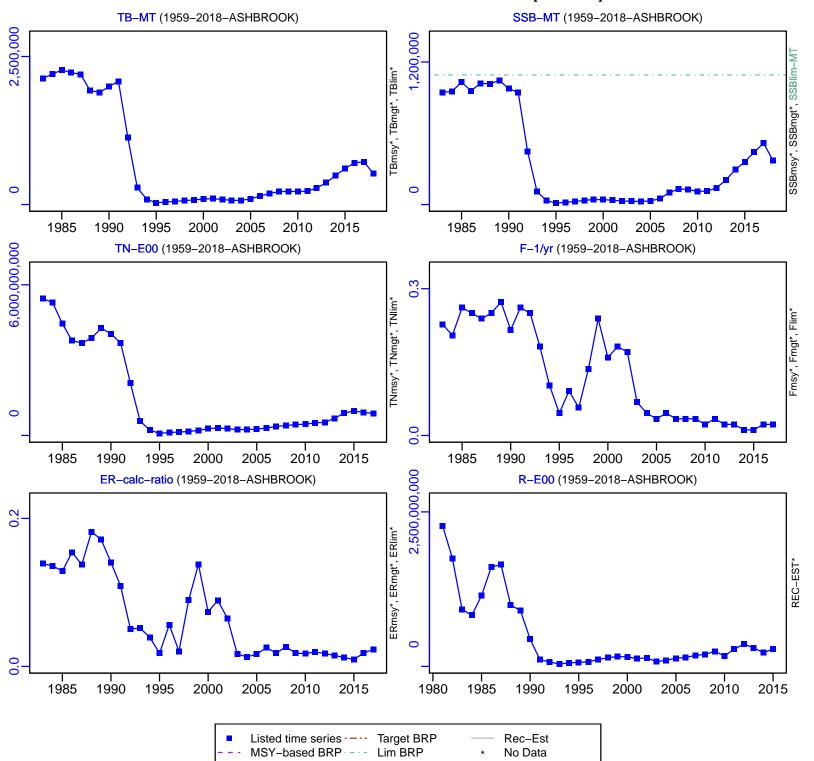


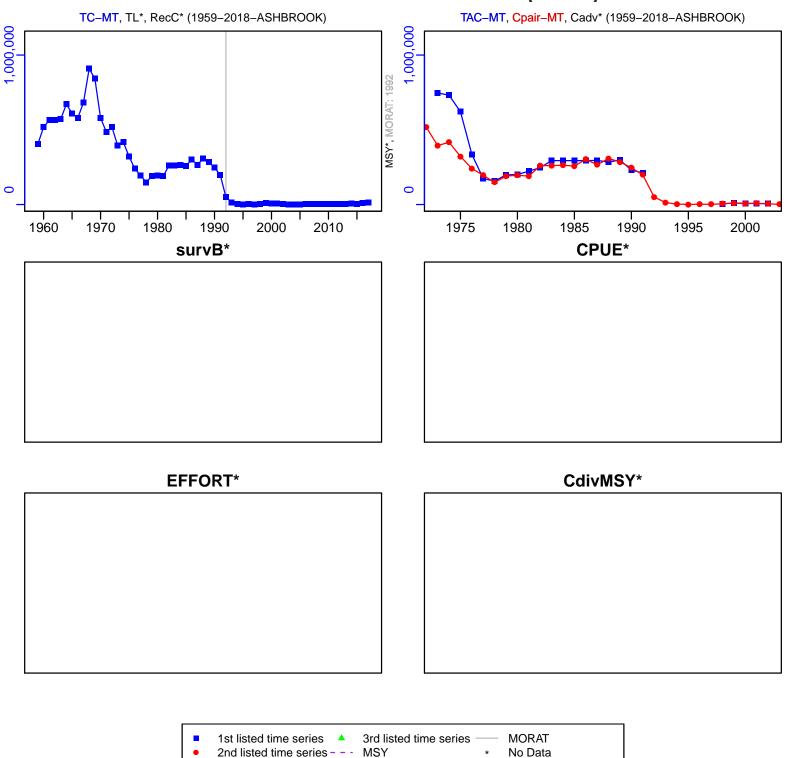
Metadata		
Scientific Name	Gadus morhua	
Current Assess ID	DFO-NFLD-COD2J3KL-1959-2018-ASHBROOK	
Area Southern Labrador-Eastern Newfoundland		
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor Department of Fisheries and Oceans - Newfoundland Region		
Asmts in RAM	2014, 2011, 2018	

Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	SSBmsy-MT	2011	1×10^6		
Fmsy	-	-	-		
ERmsy	ERmsy-ratio	2011	0.1		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2018	932,432		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2018	467,000	Both	2+
SSB	SSB-MT	2018	315,000	Both	5+
TN	TN-E00	2018	7.95×10^{8}	Both	2+
R	R-E00	2018	2.62×10^{8}	Both	2
F	F-1/yr	2018	0.02	-	5-14
ER	ER-calc-ratio	2018	0.02	-	-
TC	TC-MT	2018	13,030		
TL	TL-MT	2014	4580		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.066		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	0.241		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





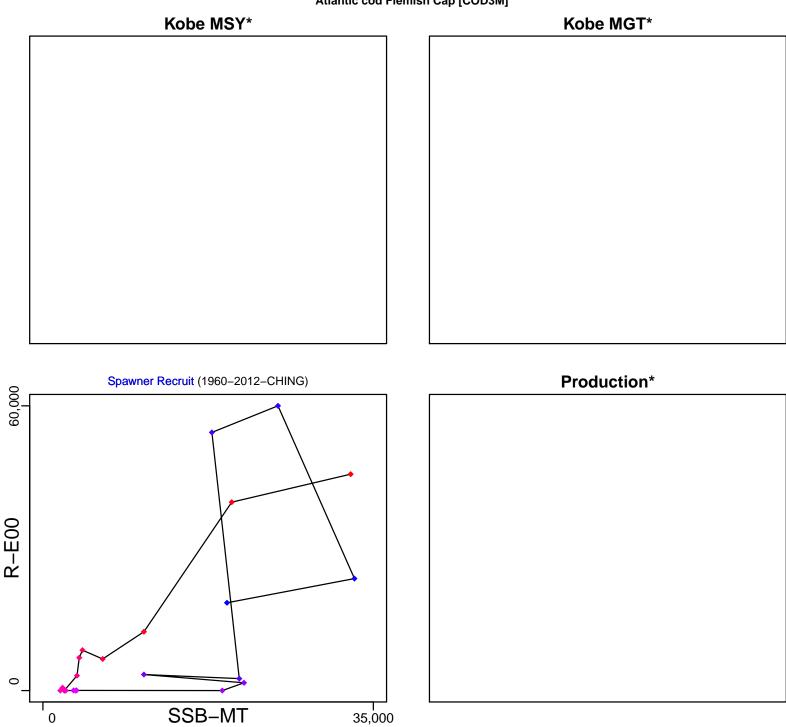


Atlantic cod Flemish Cap [COD3M]

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			

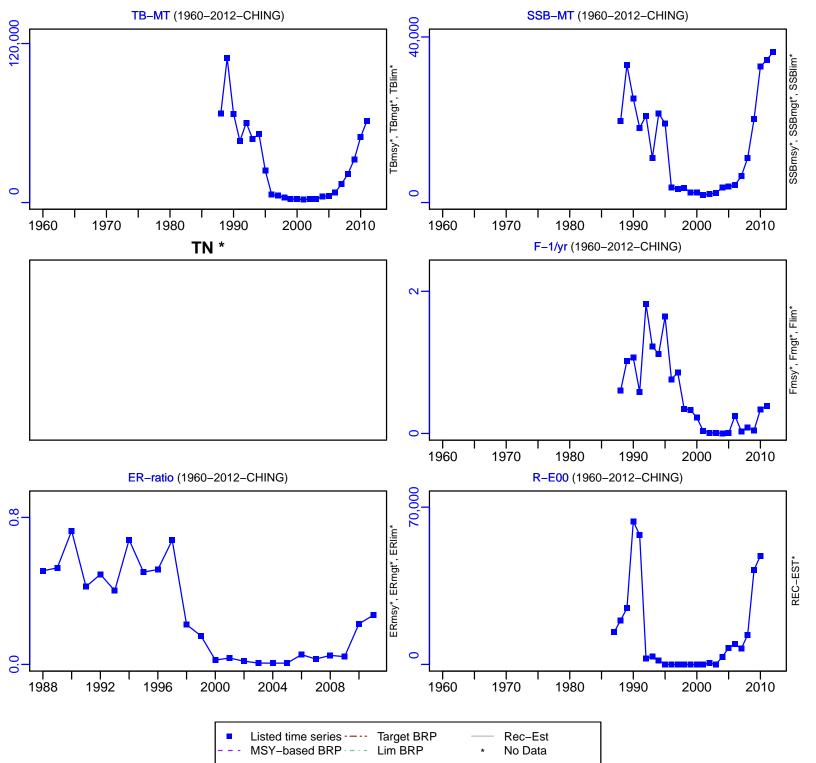
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2012	58,800	-	-	
SSB	SSB-MT	2012	36,100	-	-	
TN	-	-	-	-	-	
R	R-E00	2012	45,600	-	-	
F	F-1/yr	2012	0.327	-	-	
ER	ER-ratio	2012	0.236	-	-	
TC	TC-MT	2012	13,900			
TL	-	-	-			
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			

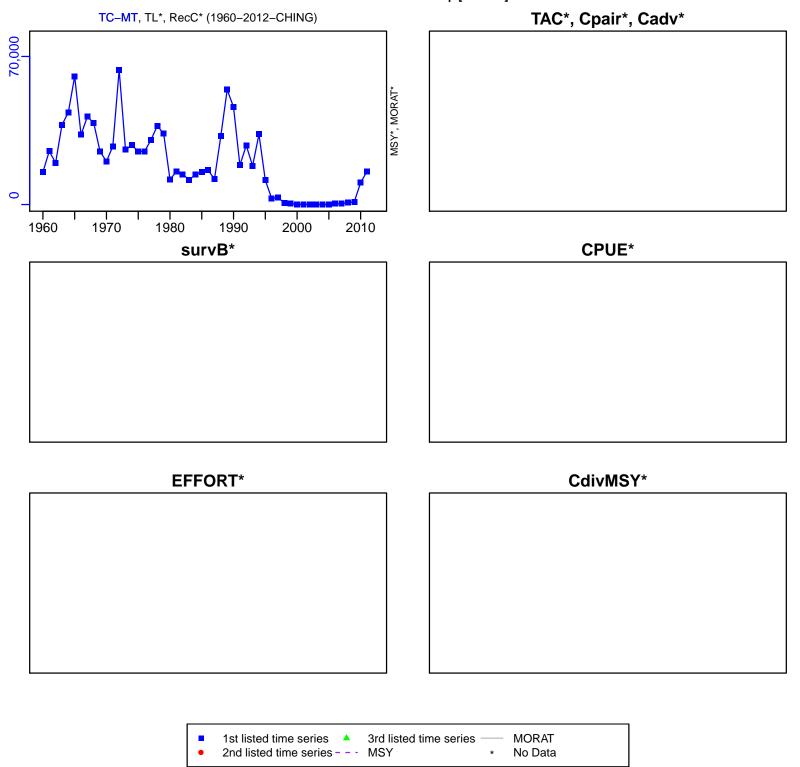


Start Year → End Year → No Data

Atlantic cod Flemish Cap [COD3M]



Atlantic cod Flemish Cap [COD3M]



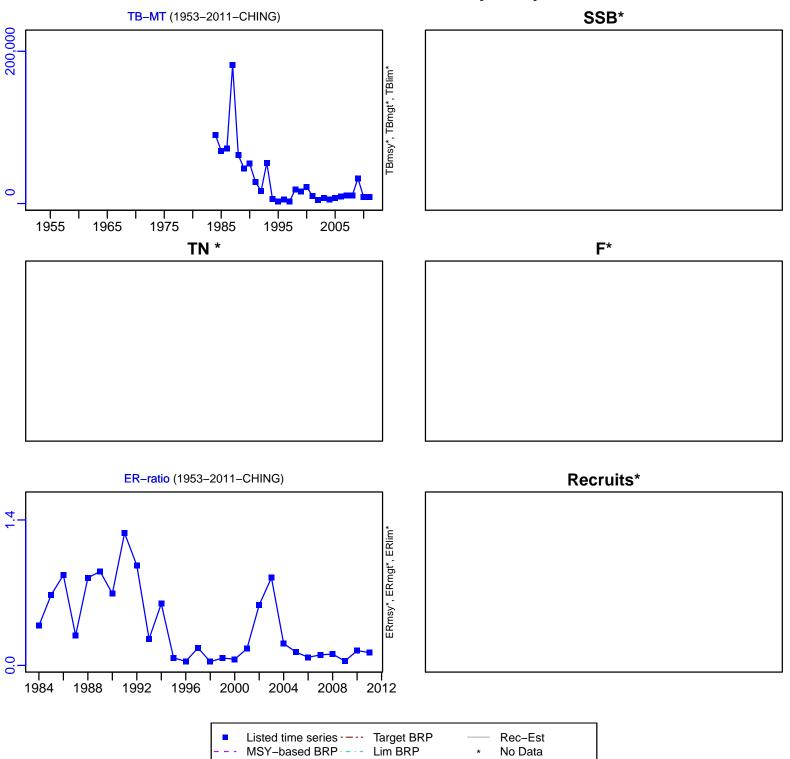
Metadata		
Scientific Name Gadus morhua		
Current Assess ID	NAFO-SC-COD3NO-1953-2011-CHING	
Area Southern Grand Banks		
Management Authority Northwest Atlantic Fisheries Organization		
Assessor NAFO Scientific Council		
Asmts in RAM	2011	

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

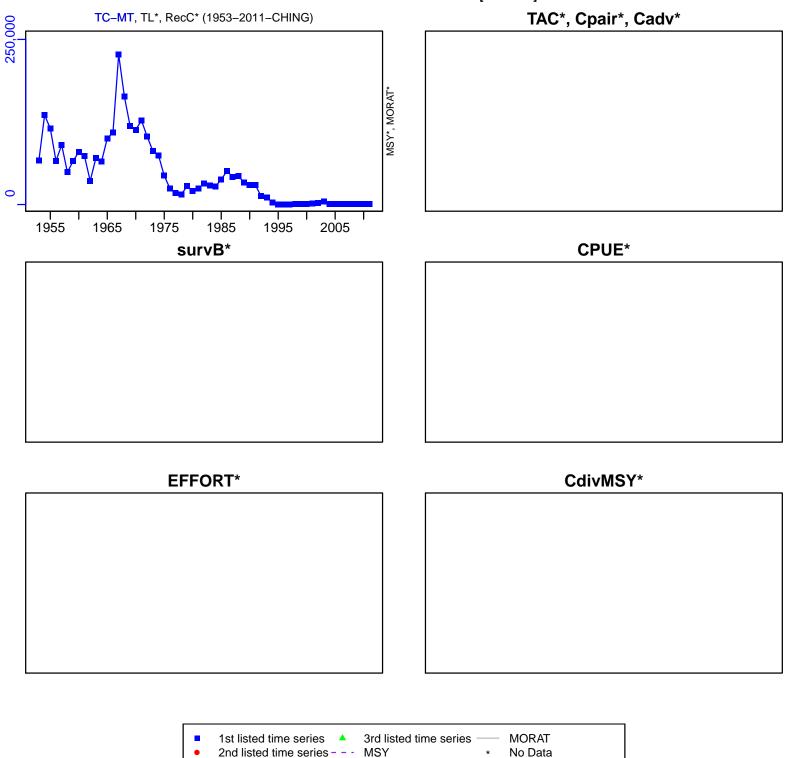
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	7570	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.108	-	-
TC	TC-MT	2011	819		,,
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



No Data

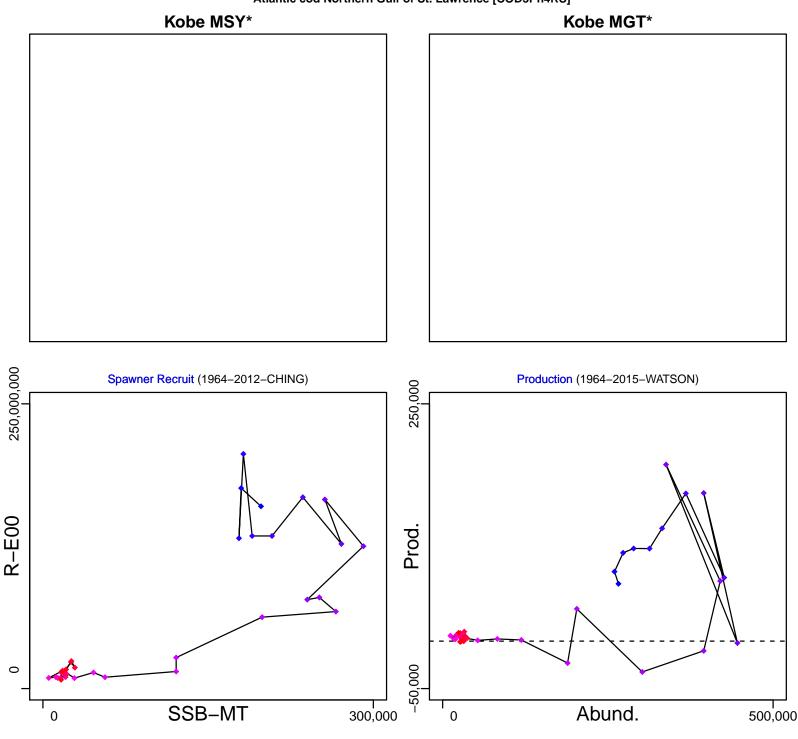


Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]

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	

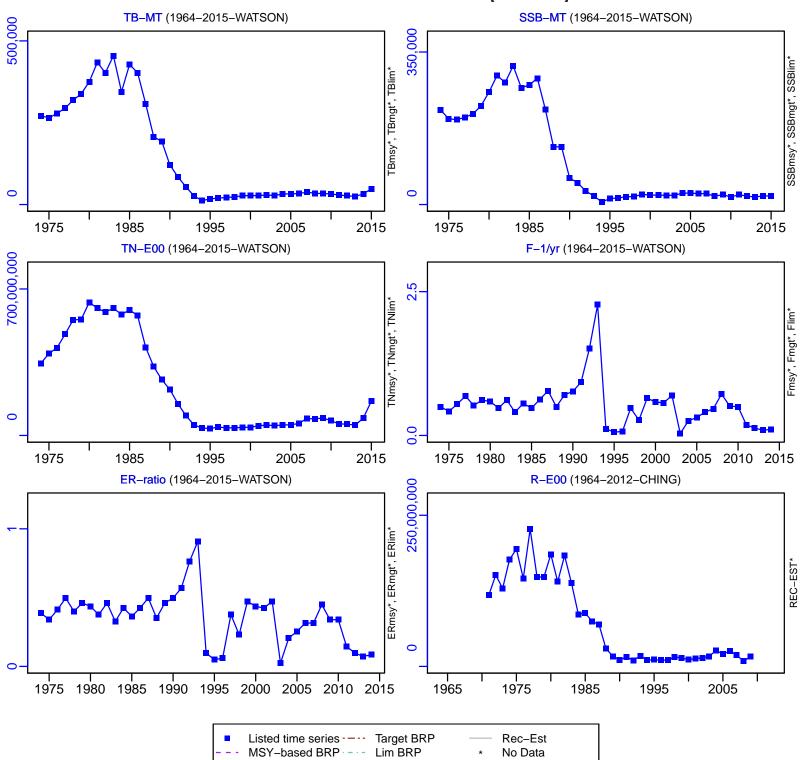
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	1.44×10^{8}	-	3+	
R	R-E00	2012	1.5×10^7	-	-	
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	-	-	-			

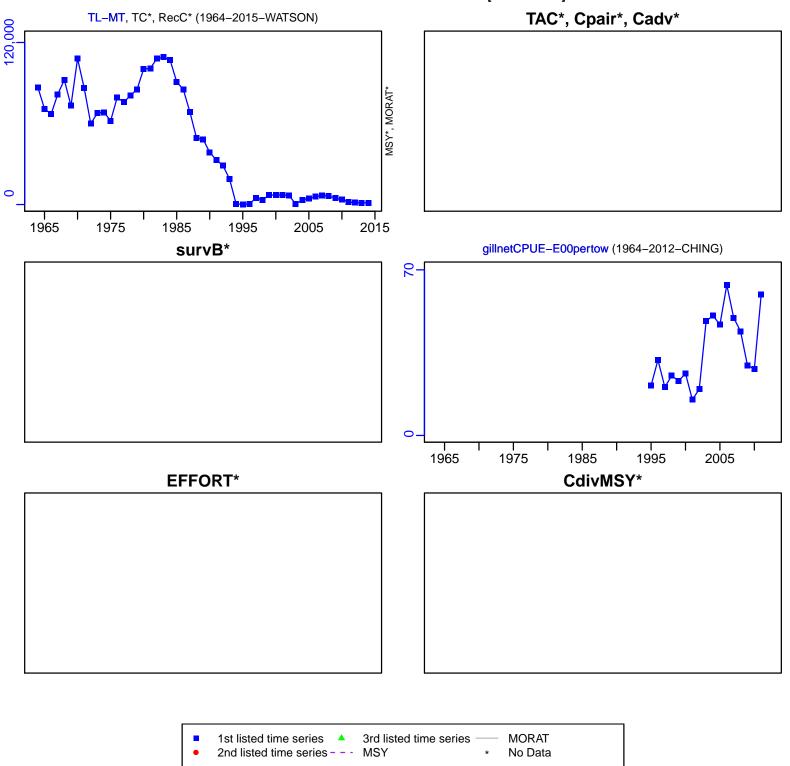


Start Year ◆ End Year * No Data

Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]



Atlantic cod Northern Gulf of St. Lawrence [COD3Pn4RS]



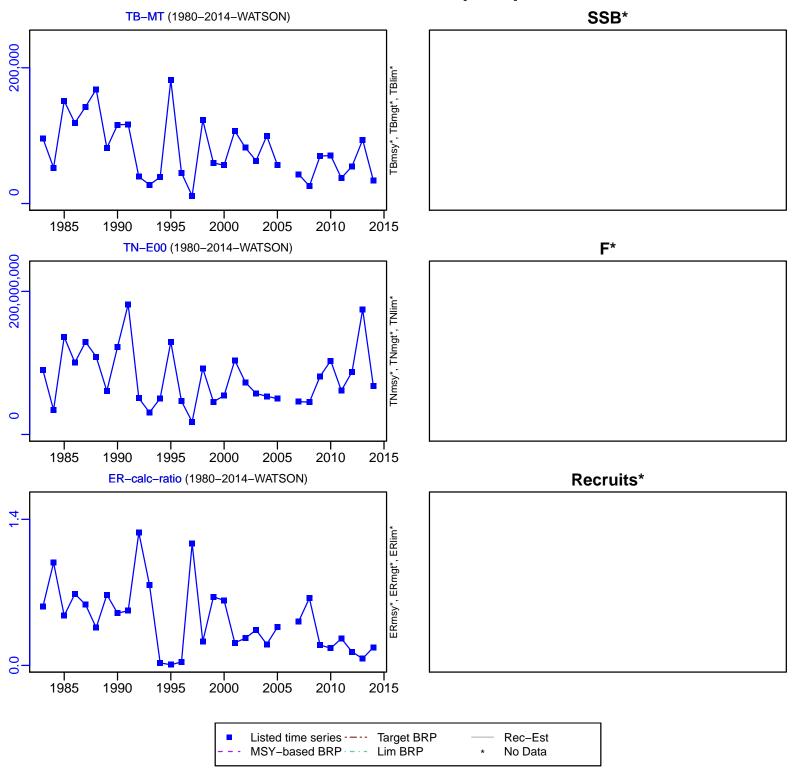
Metadata			
Scientific Name	Gadus morhua		
Current Assess ID	DFO-COD3Ps-1980-2014-WATSON		
Area	St. Pierre Bank		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2014, 2011		

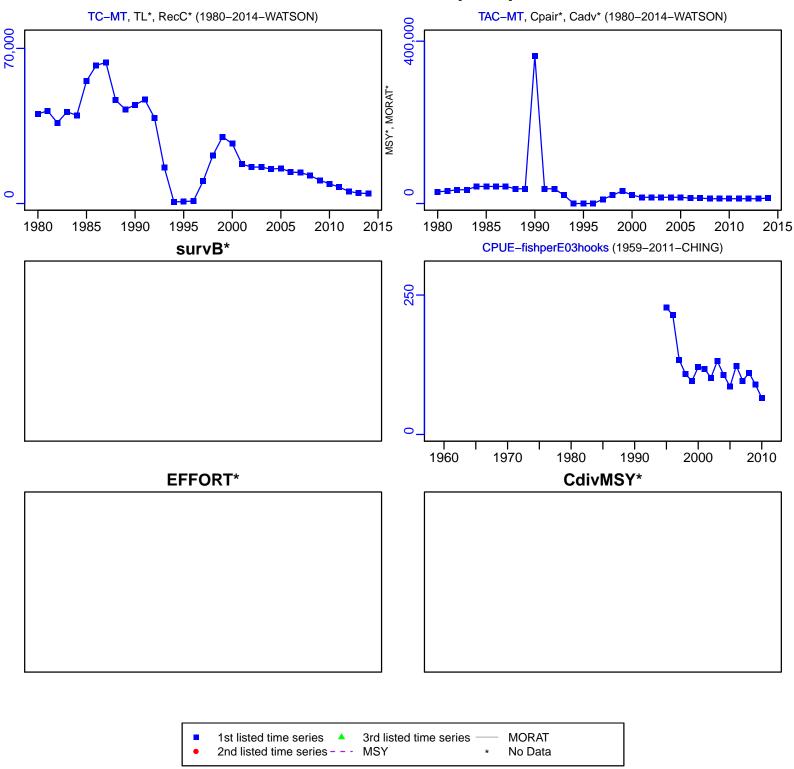
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.152	-	-	
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*
Consumon Boomist*	Duo duotio ut
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data





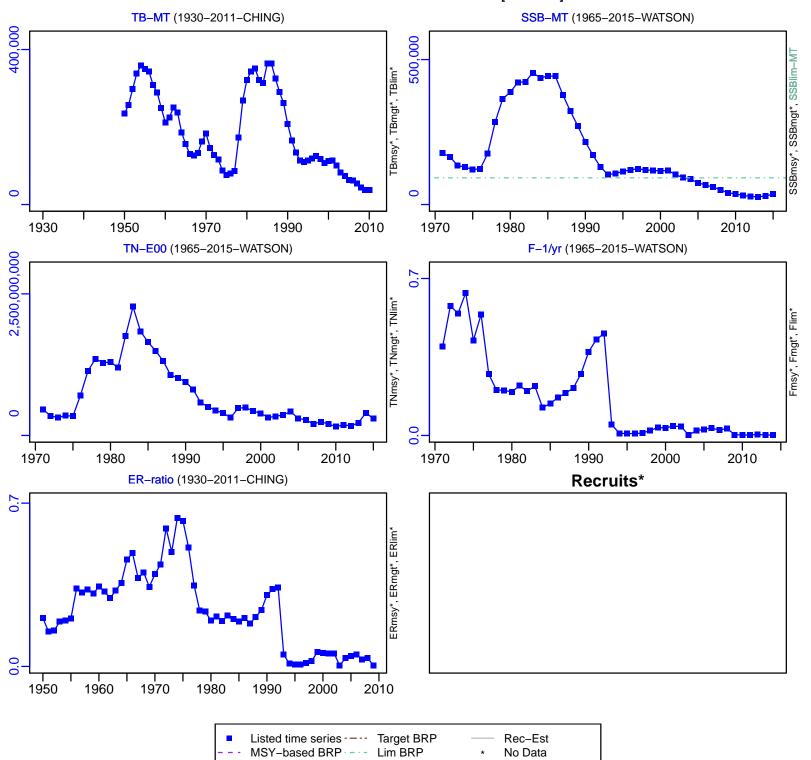
Metadata			
Scientific Name	Gadus morhua		
Current Assess ID	DFO-COD4TVn-1965-2015-WATSON		
Area	Southern Gulf of St. Lawrence		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2015, 2011		

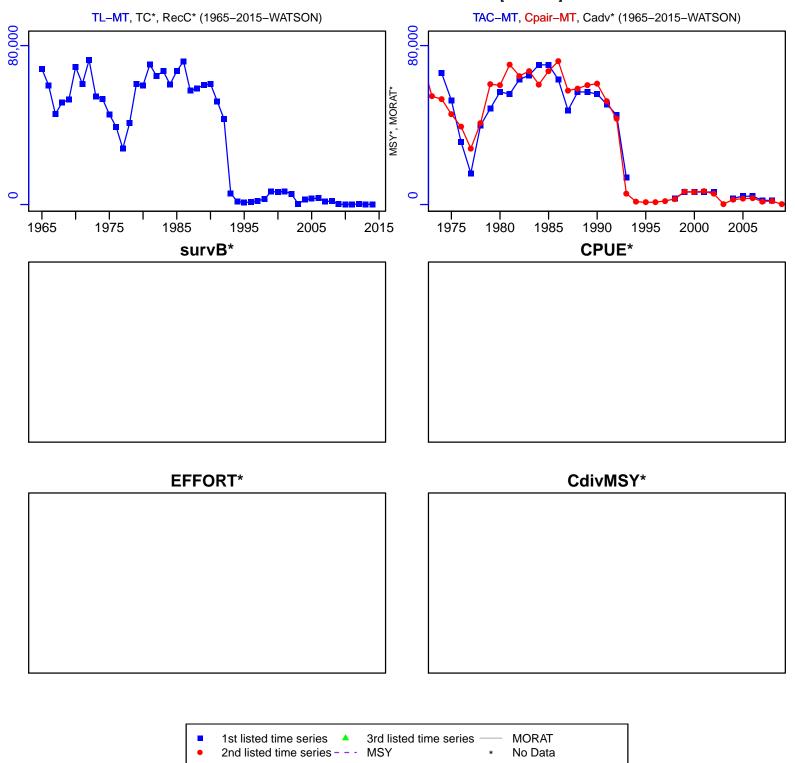
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	-	-	-			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
М	-	-	-			
TBlim	-	-	-			
SSBlim	SSBlim-MT	2015	80,000			
Flim	-	-	-			
ERlim	-	-	-			

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	2.53×10^{8}	Both	3+	
R	-	-	-	-	-	
F	F-1/yr	2015	0.002	Both	5 to 8	
ER	ER-ratio	2011	0.005	-	-	
TC	-	-	-			
TL	TL-MT	2015	114			
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





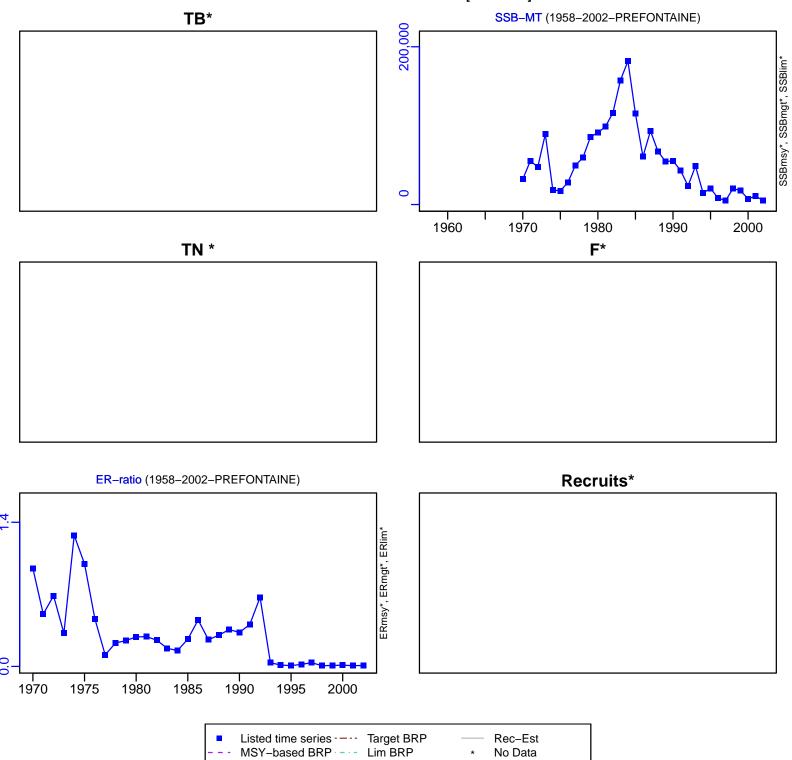
Metadata			
Scientific Name	Gadus morhua		
Current Assess ID	DFO-MAR-COD4VsW-1958-2002-PREFONTAINE		
Area	Eastern Scotian Shelf		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2002		

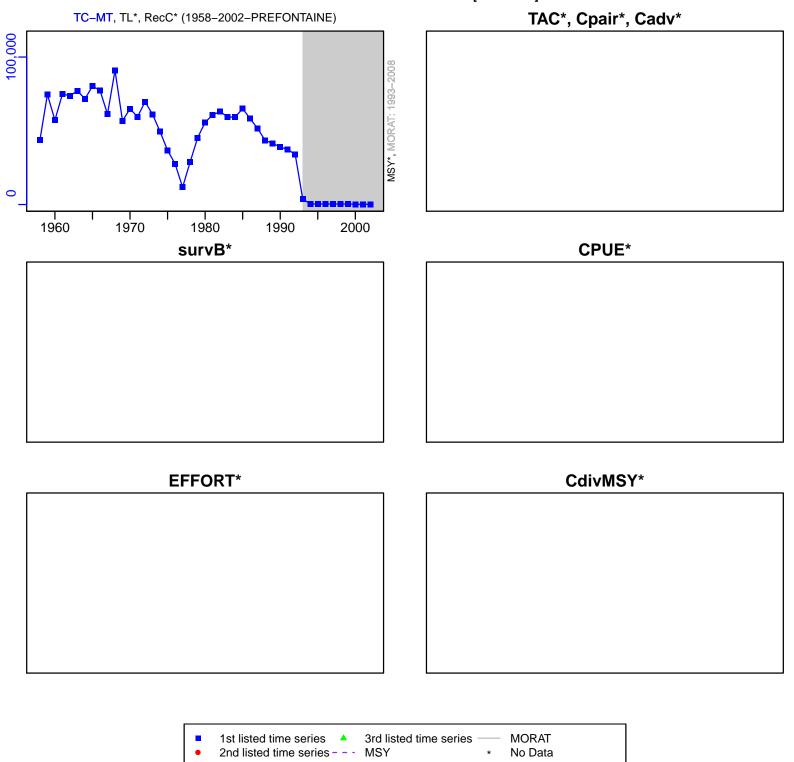
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2002	4720	-	4+
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2002	0.008	-	-
TC	TC-MT	2002	83		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
	J
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data





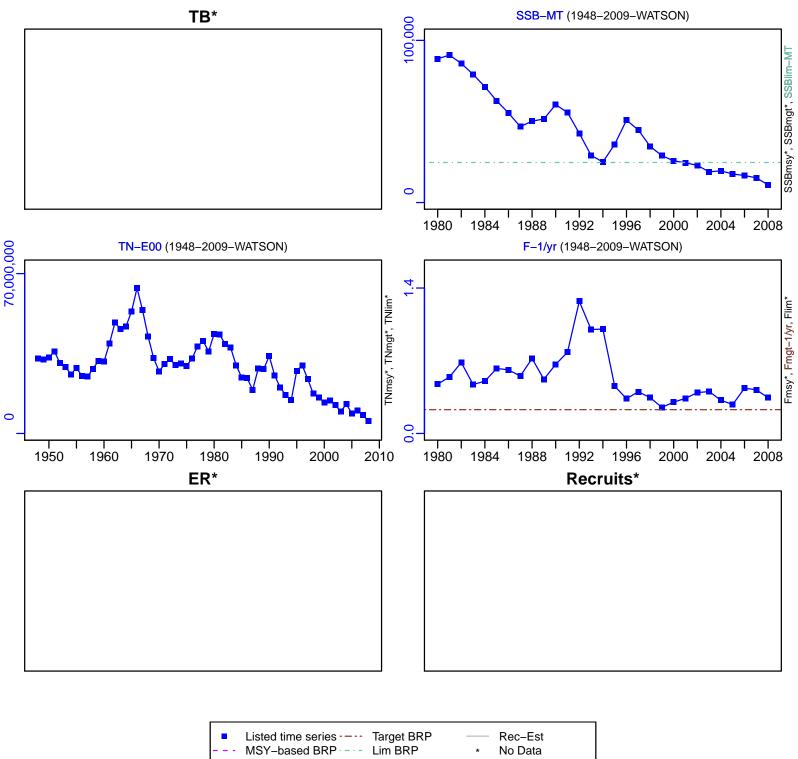
Metadata			
Scientific Name Gadus morhua			
Current Assess ID	DFO-COD4X5Yb-1948-2009-WATSON		
Area Western Scotian Shelf, Bay of Fundy and Gulf of Maine			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM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

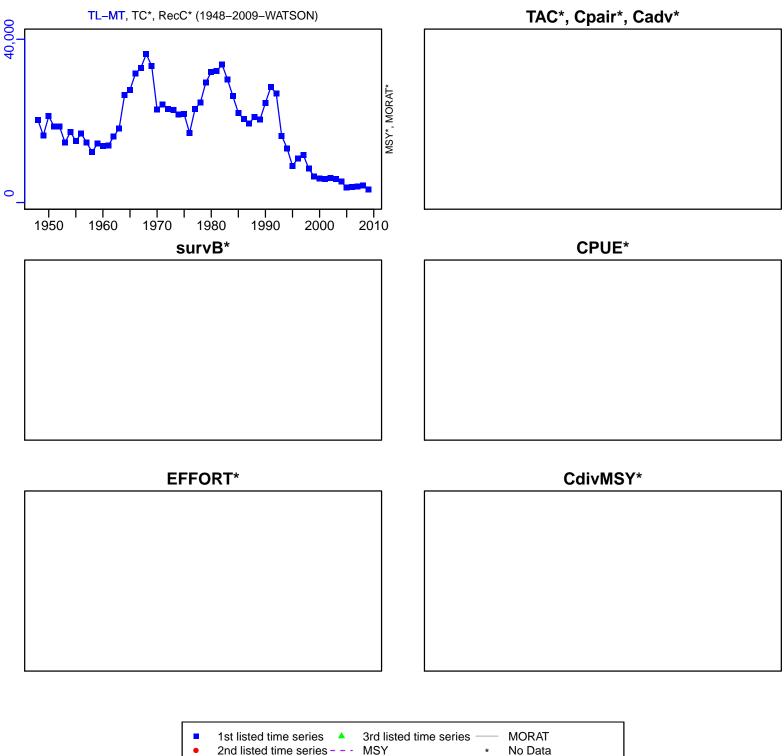
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	Fmgt-1/yr	2009	0.2	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2009	24,000	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-	-	-
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	-	-	-		

Kobe MSY*	Kobe MGT*
Snowner Deerwit*	Draduation*
Spawner Recruit*	Production*
Spawner Recruit	Production
Spawner Recruit	Production
Spawner Recruit	Production
Spawner Recruit*	Production
Spawner Recruit*	Production
Spawner Recruit*	Production
Spawner Recruit	Production
Spawner Recruit	Production
Spawner Recruit	
Spawner Recruit	
Spawner Recruit	

◆ Start Year ◆ End Year ∗ No Data



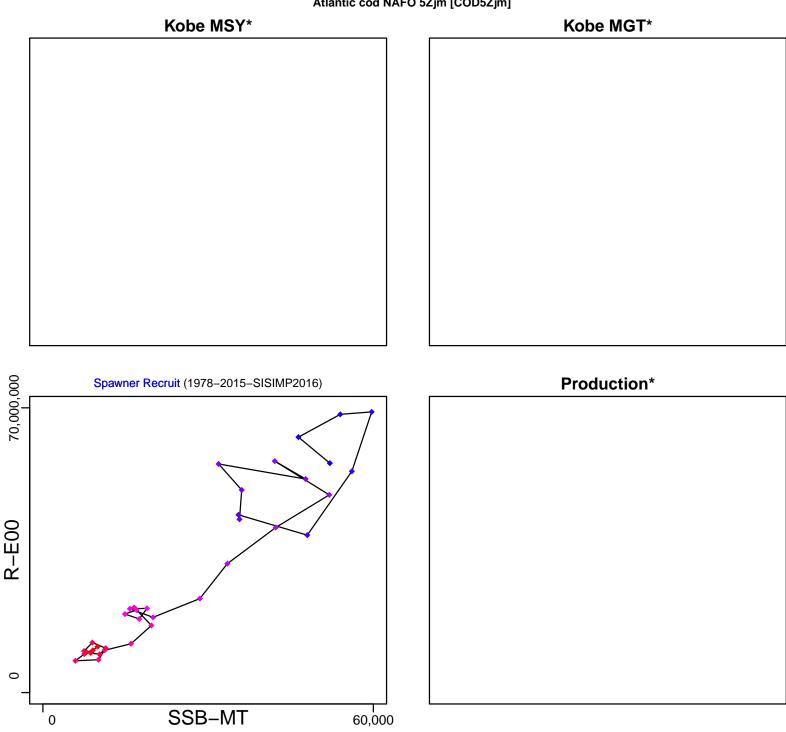


Atlantic cod NAFO 5Zjm [COD5Zjm]

Metadata				
Scientific Name Gadus morhua				
Current Assess ID	TRAC-COD5Zjm-1978-2015-SISIMP2016			
Area	NAFO 5Zjm			
Management Authority	Transboundary Resource Assessment Committee (USA and Canada)			
Assessor	Transboundary Resource Assessment Committee (USA and Canada)			
Asmts in RAM	2010, 2015			

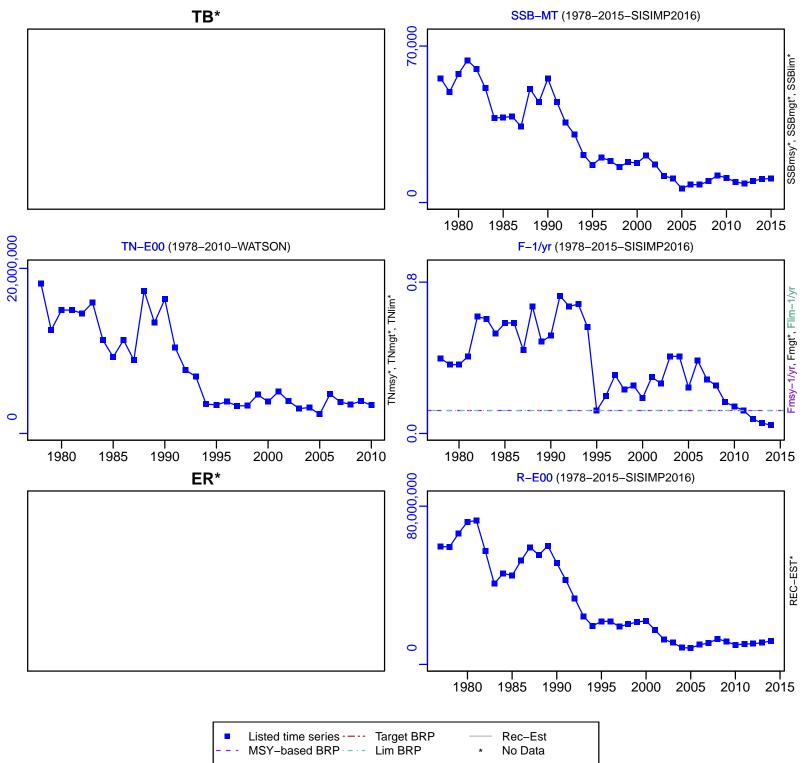
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2015	0.11	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2010	21,000	
Flim	Flim-1/yr	2015	0.11	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2015	10,000	-	3+
TN	TN-E00	2010	3,390,000	-	3+
R	R-E00	2015	11,300,000	-	1
F	F-1/yr	2015	0.04	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	574		
TL	TL-MT	2010	1860		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.364		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

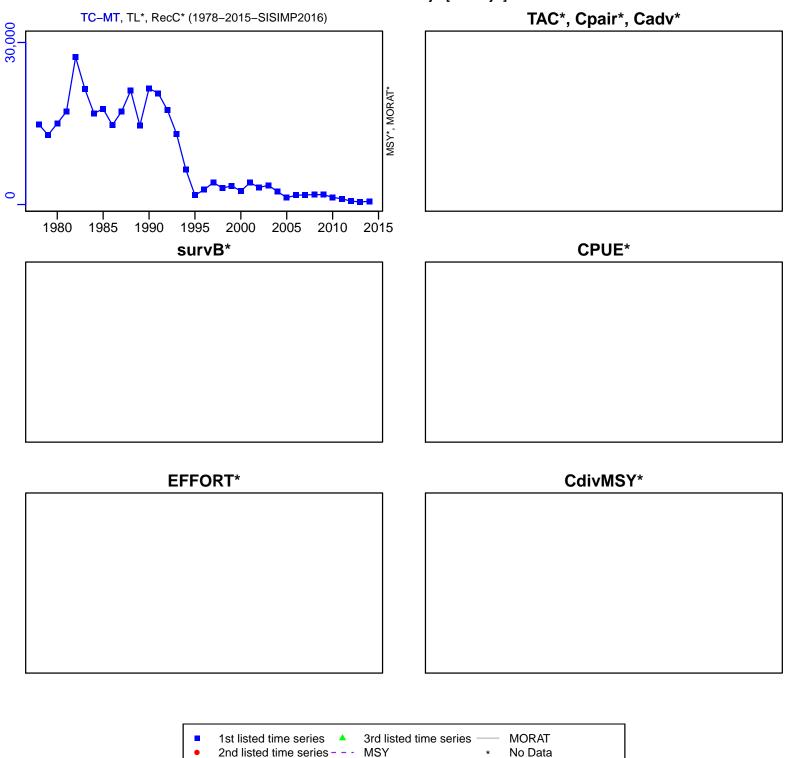


Start Year • End Year * No Data

Atlantic cod NAFO 5Zjm [COD5Zjm]



Atlantic cod NAFO 5Zjm [COD5Zjm]



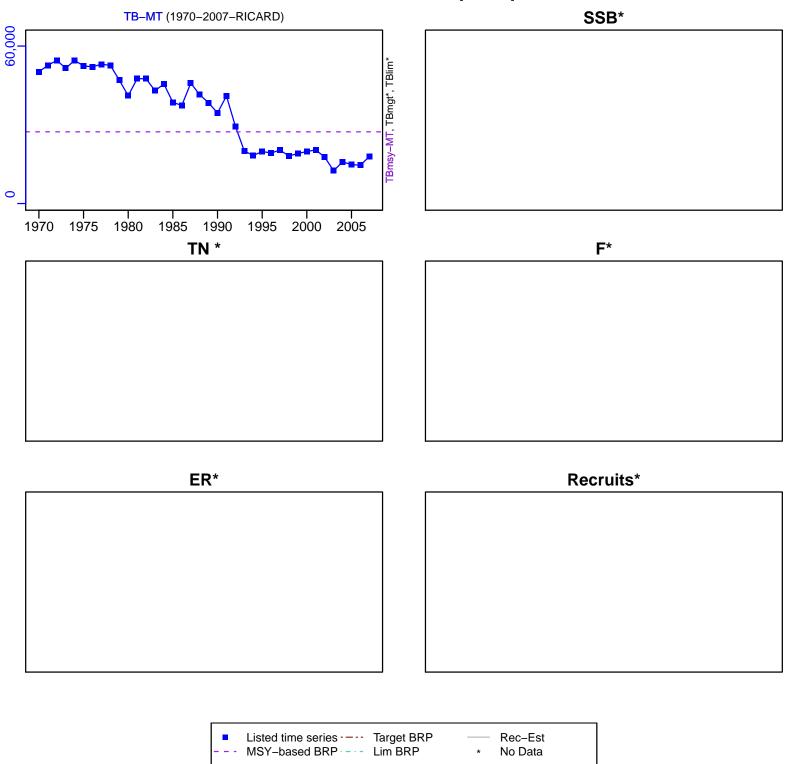
Metadata		
Scientific Name	Brosme brosme	
Current Assess ID DFO-MAR-CUSK4X-1970-2007-RICARD		
Area Western Scotian Shelf		
Management Authority Department of Fisheries and Oceans, Canada national managen		
Assessor Department of Fisheries and Oceans - Maritimes Region		
Asmts in RAM	2007	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2007	25,790	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2007	0.058	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	TB0-MT	2007	47,430	
SSB0	-	-	-	
MSY	MSY-MT	2007	1483	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Sex	Age		
ТВ	TB-MT	2007	16,900	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.655		
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*	CdivMSY*
■ 1st listed time series ▲ 3rd	listed time series — MORAT

No Data

2nd listed time series - - - MSY

Metadata			
Scientific Name Reinhardtius hippoglossoides			
Current Assess ID NAFO-SC-GHAL01ABCDEF-1987-2006-PREFONTAINE			
Area NAFO divisions 01ABCDEF			
Management Authority Northwest Atlantic Fisheries Organization			
Assessor NAFO Scientific Council			
Asmts in RAM 2006			

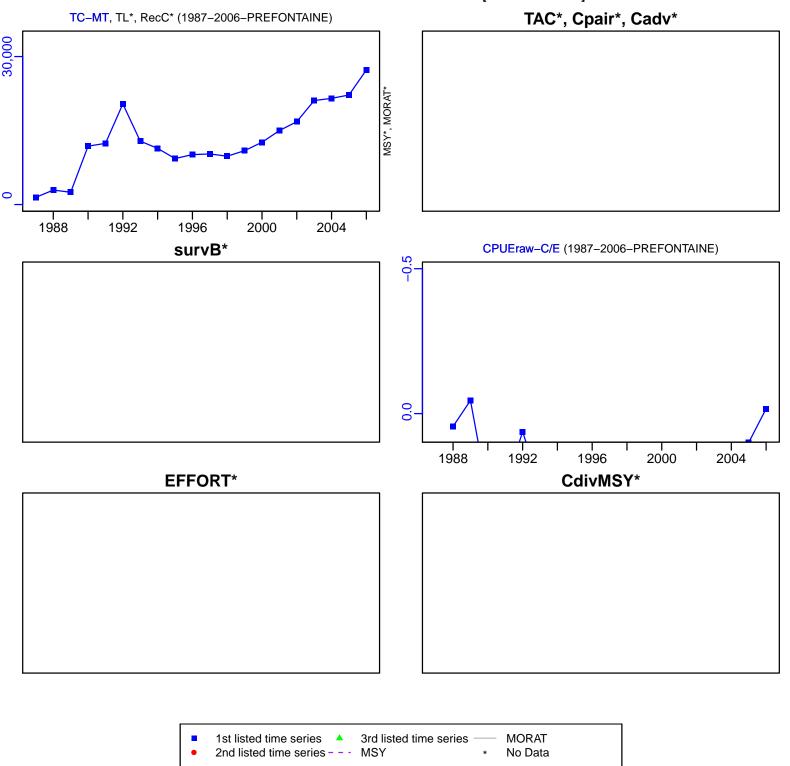
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2006	0.22	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	24,200		
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*
ER	Recruits
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data
MSY-based BRP Li	m BRP * No Data

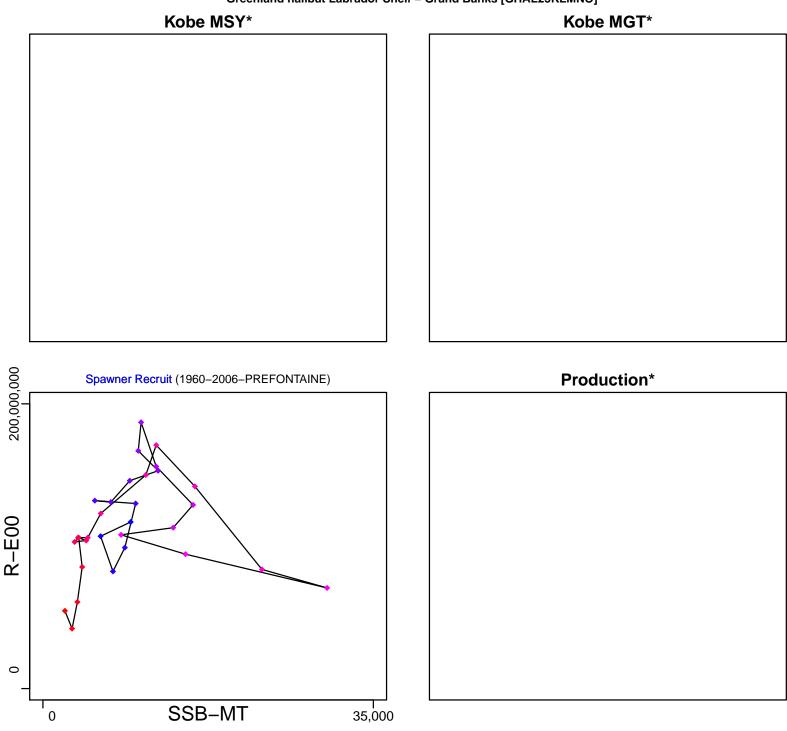


Greenland halibut Labrador Shelf - Grand Banks [GHAL23KLMNO]

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

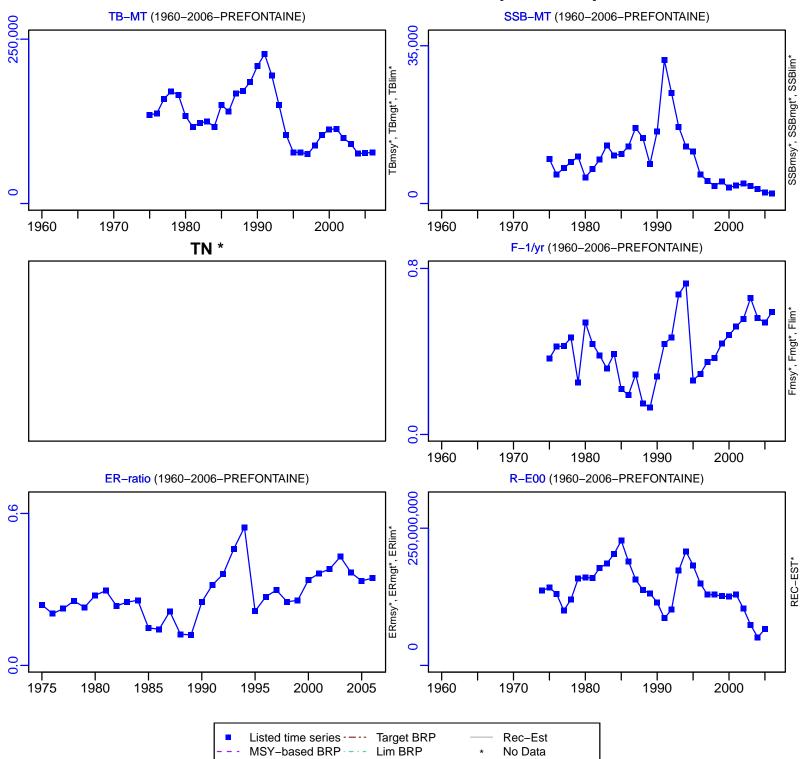
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2006	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2006	76,500	-	5+	
SSB	SSB-MT	2006	2130	-	10+	
TN	-	-	-	-	-	
R	R-E00	2006	54,600,000	-	-	
F	F-1/yr	2006	0.588	-	5 to 10	
ER	ER-ratio	2006	0.314	-	-	
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	-	-	-			

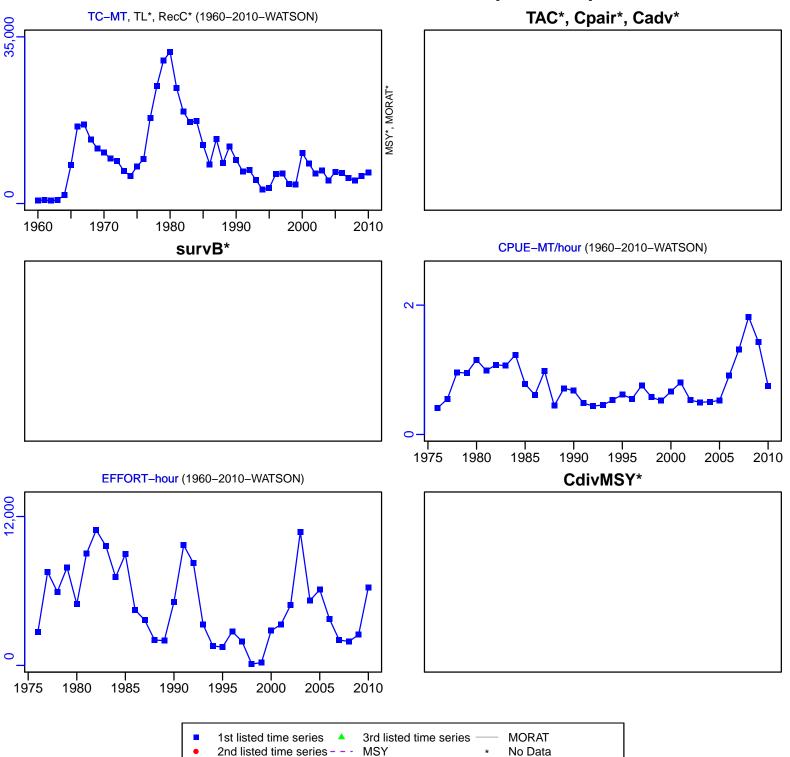


Start Year • End Year * No Data

Greenland halibut Labrador Shelf - Grand Banks [GHAL23KLMNO]



Greenland halibut Labrador Shelf - Grand Banks [GHAL23KLMNO]

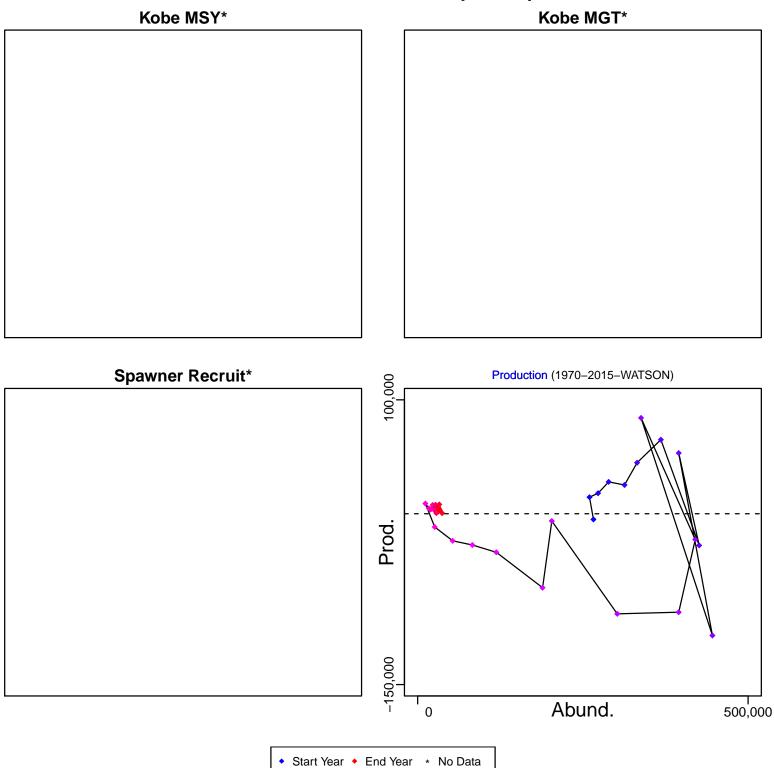


Greenland halibut Gulf of St. Lawrence [GHAL4RST]

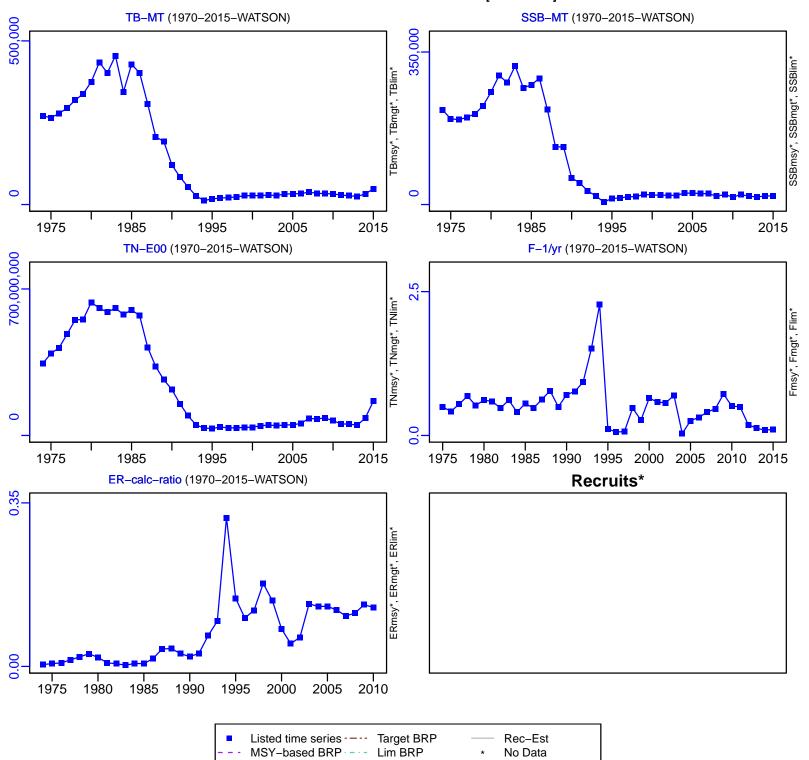
Metadata				
Scientific Name	Reinhardtius hippoglossoides			
Current Assess ID DFO-GHAL4RST-1970-2015-WATSON				
Area Gulf of St. Lawrence				
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2015, 2002			

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

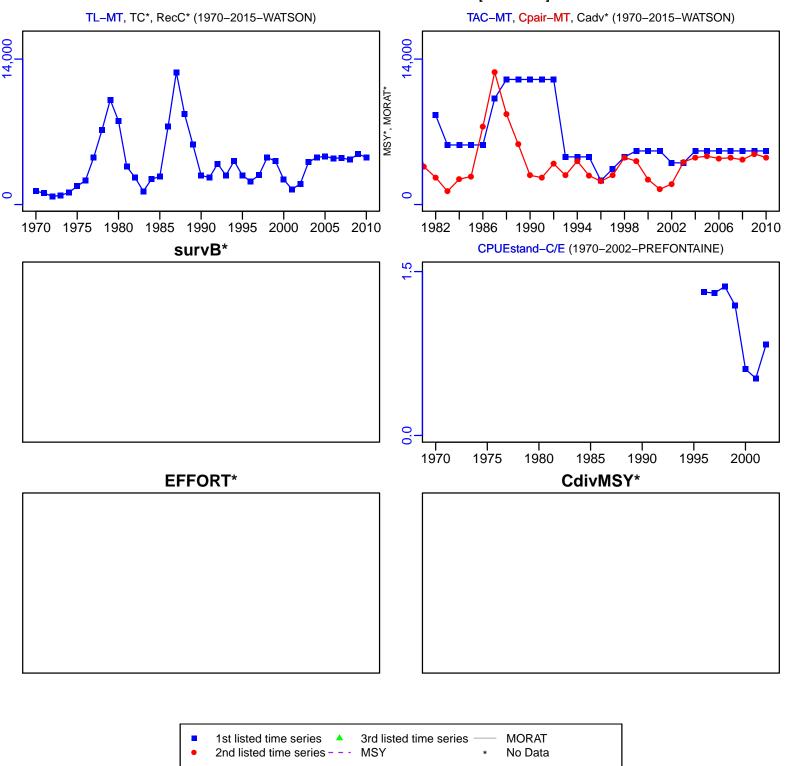
Time Series						
Туре	ID	Asmt Year	Curr Value	Sex	Age	
ТВ	TB-MT	2015	47,100	-	3+	
SSB	SSB-MT	2015	17,700	-	3+	
TN	TN-E00	2015	1.44×10^{8}	-	3+	
R	-	-	-	-	-	
F	F-1/yr	2015	0.09	-	7 to 9	
ER	ER-calc-ratio	2015	0.124	-	-	
TC	-	-	-			
TL	TL-MT	2015	3950]		
TB/TBmsy	-	-	-			
SSB/SSBmsy	-	-	-			
F/Fmsy	-	-	-			
ER/ERmsy	-	-	-			
TB/TBmgt	-	-	-			
SSB/SSBmgt	-	-	-			
F/Fmgt	-	-	-			
ER/ERmgt	-	-	-			



Greenland halibut Gulf of St. Lawrence [GHAL4RST]



Greenland halibut Gulf of St. Lawrence [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			

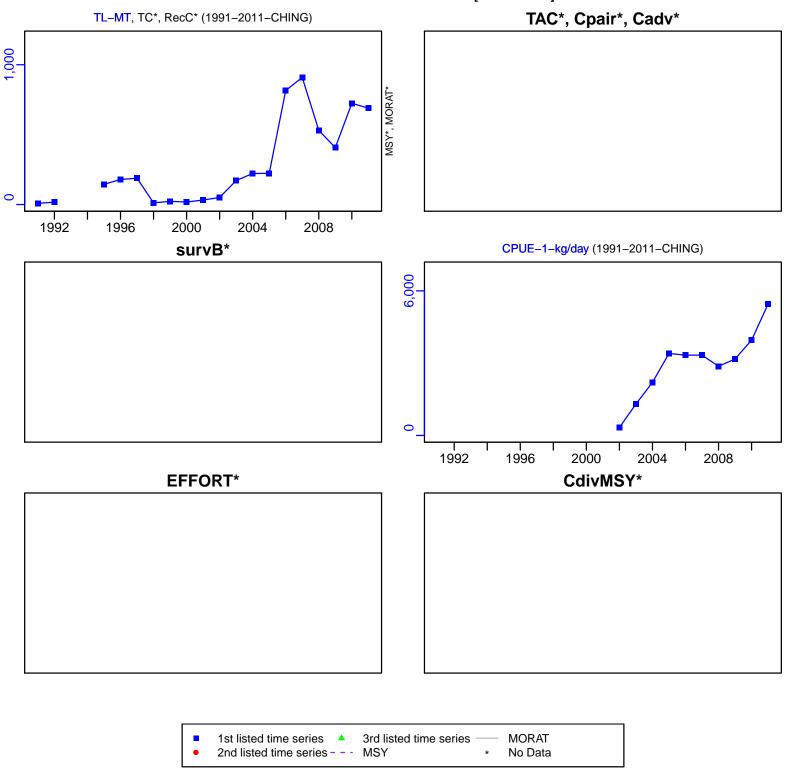
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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 MGT*
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 MSY-based BRP Li	im BRP * No Data

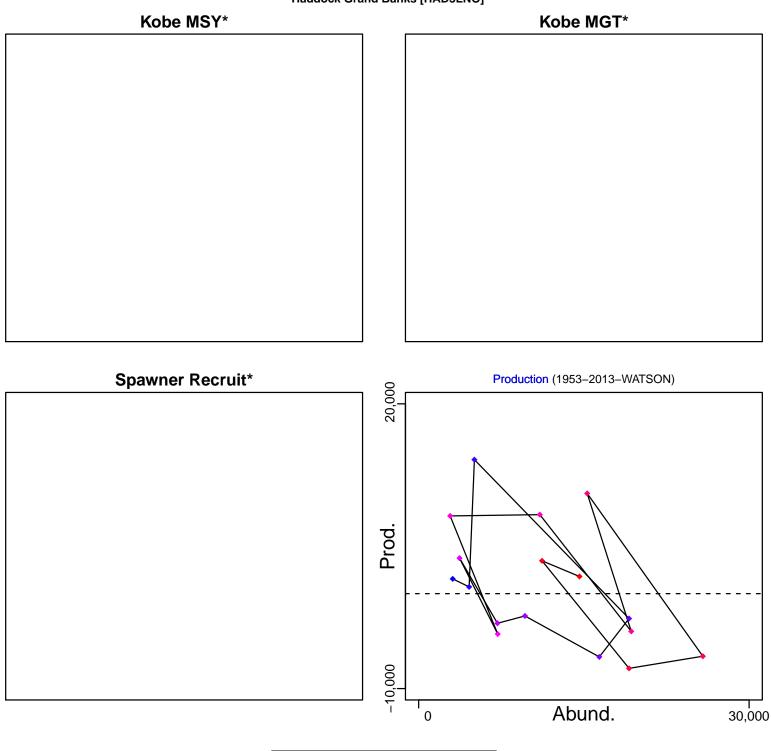


Haddock Grand Banks [HAD3LNO]

Metadata					
Scientific Name Melanogrammus aeglefinus					
Current Assess ID NAFO-SC-HAD3LNO-1953-2017-ASHBROOK					
Area Grand Banks					
Management Authority	Northwest Atlantic Fisheries Organization				
Assessor	NAFO Scientific Council				
Asmts in RAM	2013, 2017				

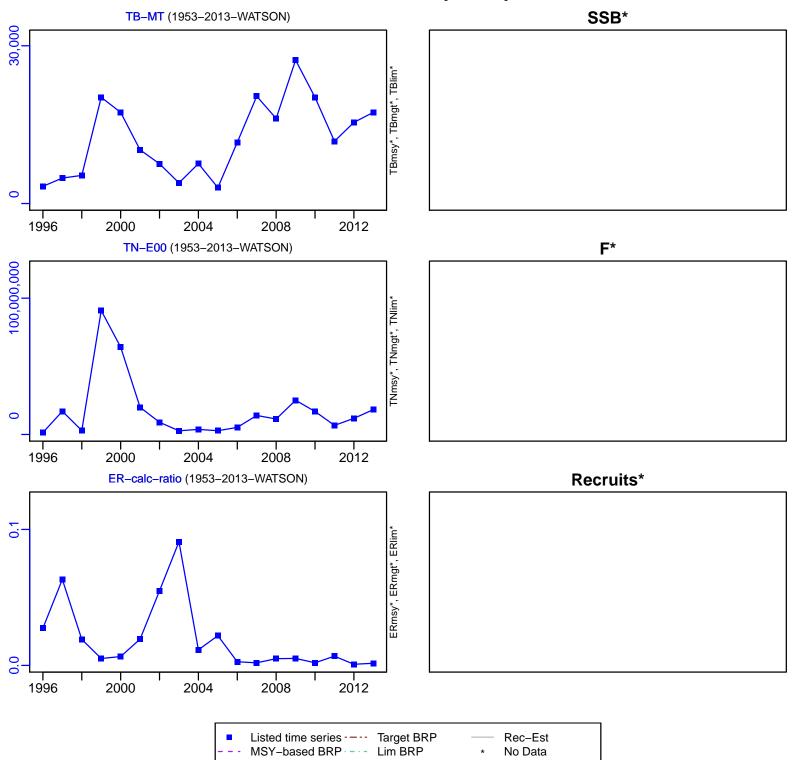
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2013	16,400	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	14,900,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2013	0.001	-	-
TC	TC-MT	2017	228		
TL	TL-MT	2013	21]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	1	-	-		
SSB/SSBmgt	1	-	-		
F/Fmgt	1	-	-		
ER/ERmgt	-	-	-		

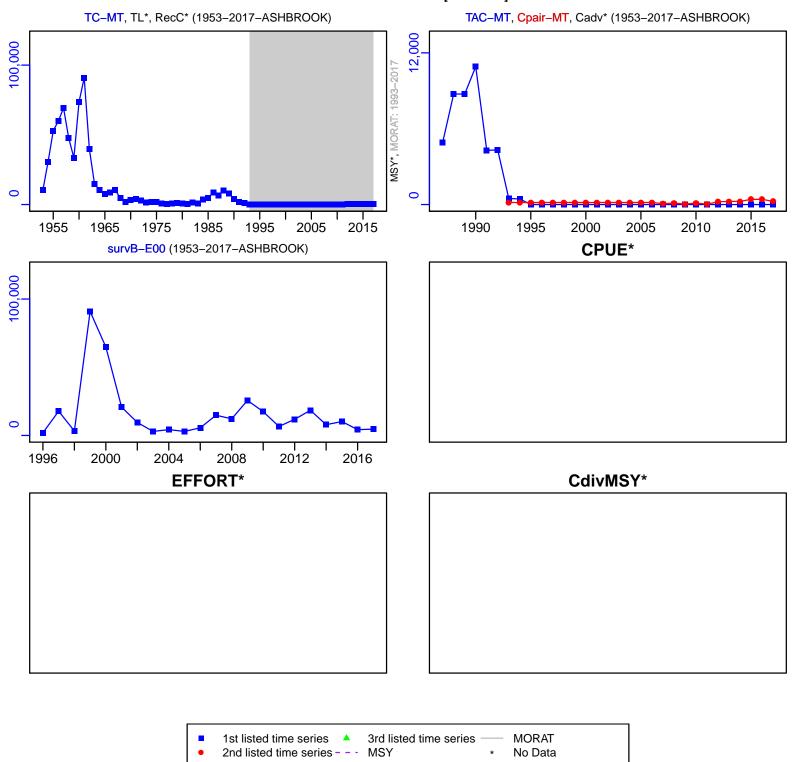


Start Year → End Year → No Data

Haddock Grand Banks [HAD3LNO]



Haddock Grand Banks [HAD3LNO]

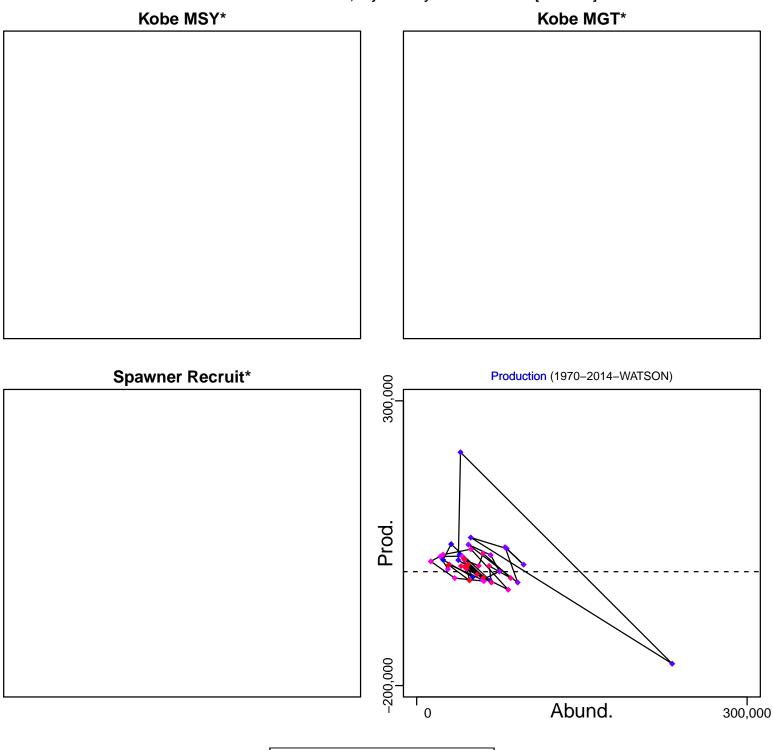


Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine [HAD4X5Y]

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		

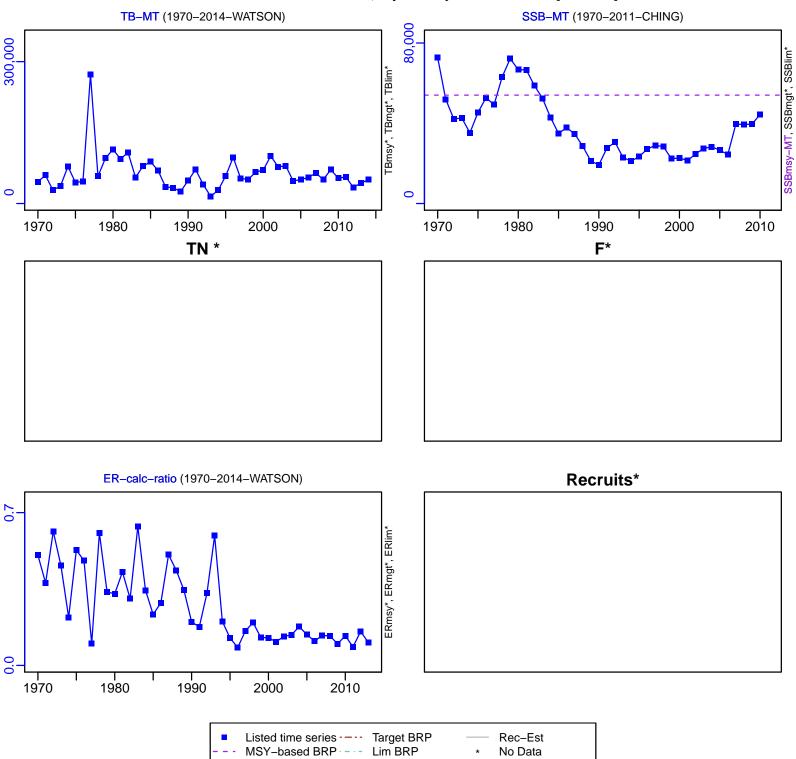
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-MT	2011	52,000	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	14,700	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.096	-	-
TC	TC-MT	2014	3520		
TL	TL-MT	2014	3520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.821		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

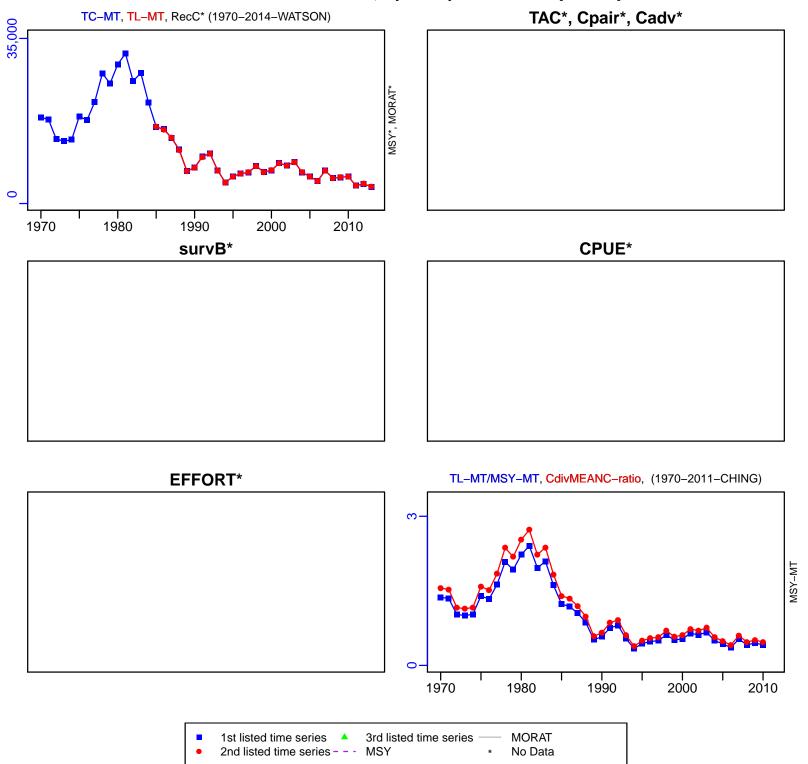


Start Year • End Year * No Data

Haddock Western Scotian Shelf, Bay of Fundy and Gulf of Maine [HAD4X5Y]



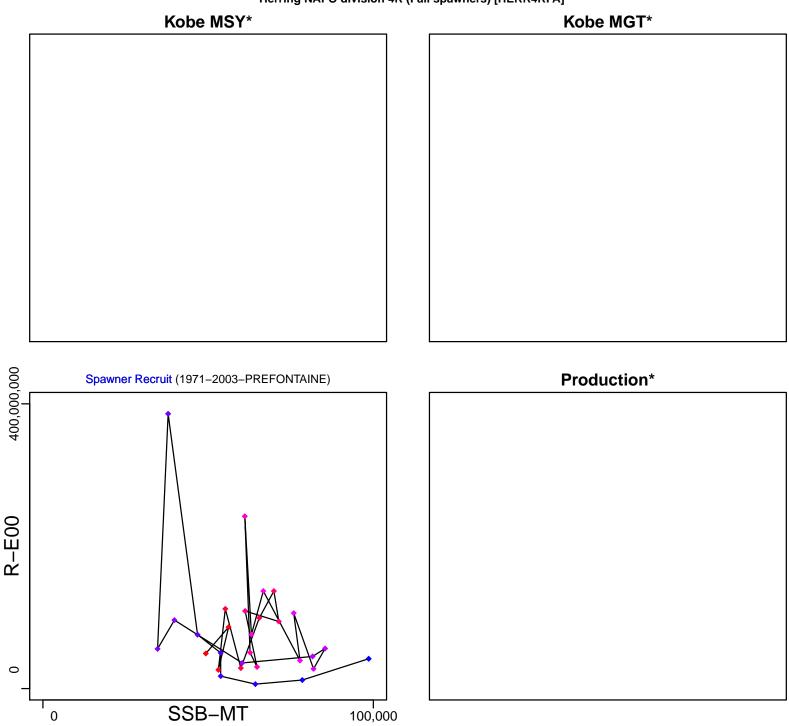
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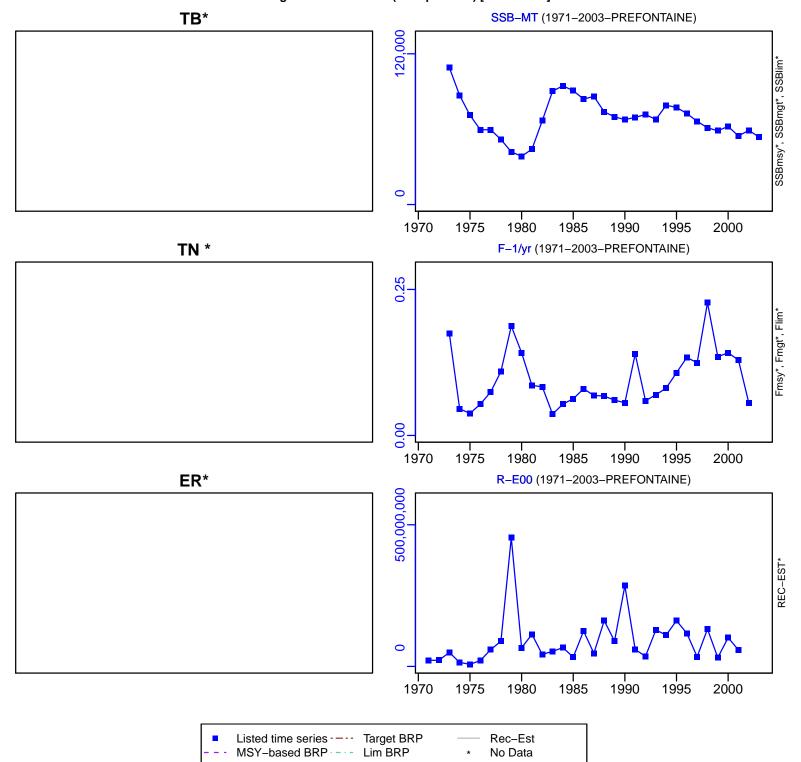
Metadata			
Scientific Name	Clupea harengus		
Current Assess ID	DFO-QUE-HERR4RFA-1971-2003-PREFONTAINE		
Area NAFO division 4R (Fall spawners)			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Quebec Region		
Asmts in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

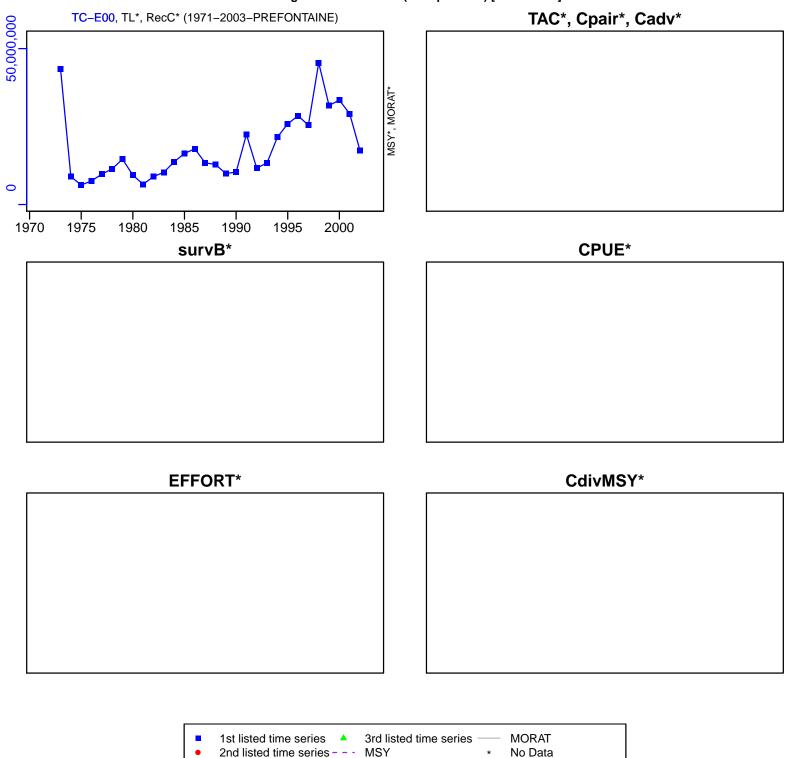
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2003	0.2		
TBlim	TBlim-MT	2003	47,953		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	0.049	-	4+
ER	-	-	-	-	-
TC	TC-E00	2003	16,200,000		
TL	TL-MT	2003	4499		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data



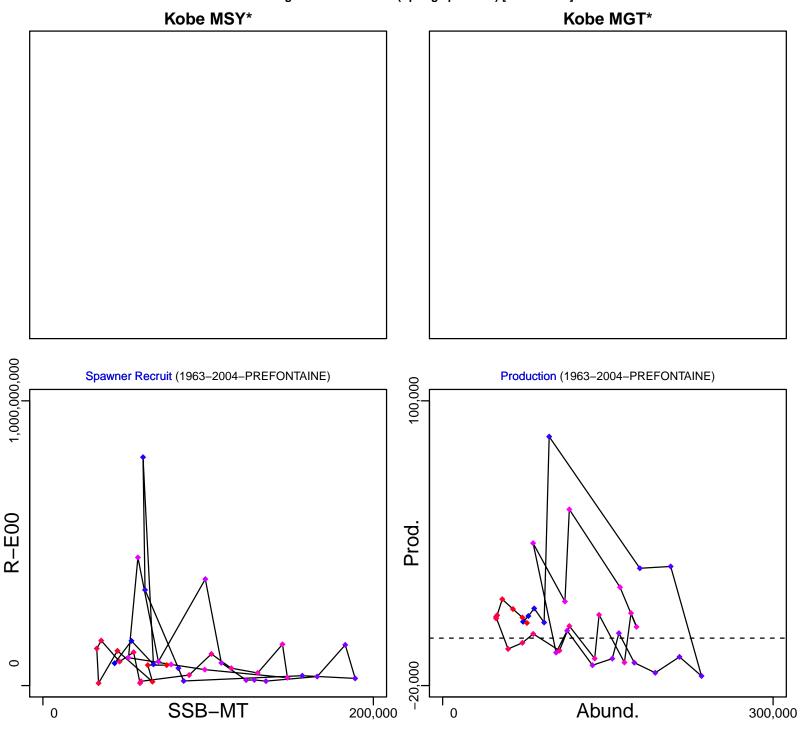


Herring NAFO division 4R (Spring spawners) [HERR4RSP]

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

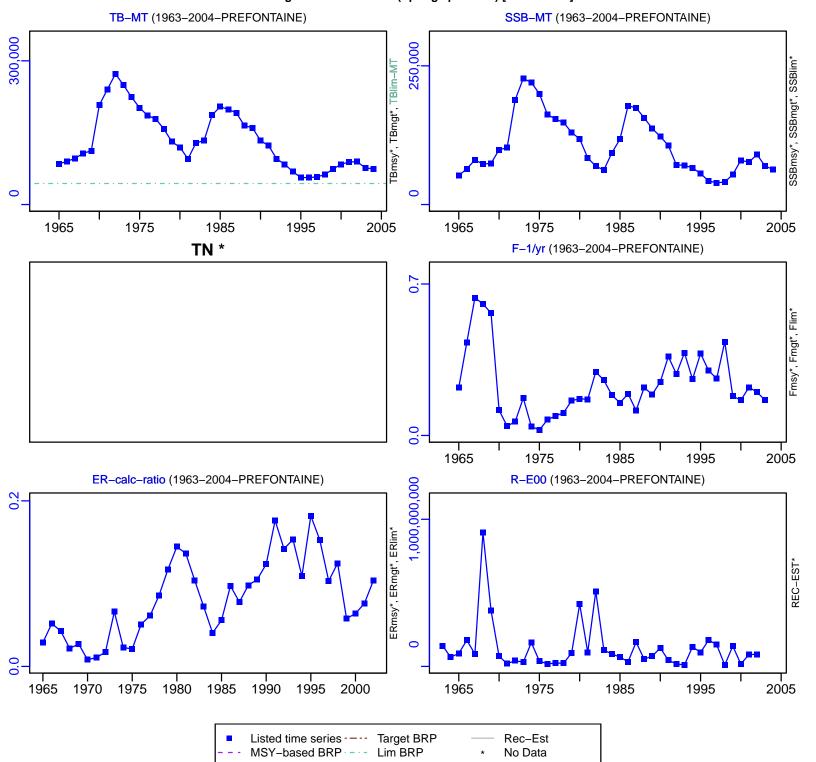
Reference Points					
Туре	ID	Value			
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	M-1/yr	2004	0.2		
TBlim	TBlim-MT	2004	37,831		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	0.148	-	4+
ER	ER-calc-ratio	2004	0.103	-	-
TC	TC-E00	2004	22,700,000		
TL	TL-MT	2004	7926]	
TB/TBmsy	-	-	-]	
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

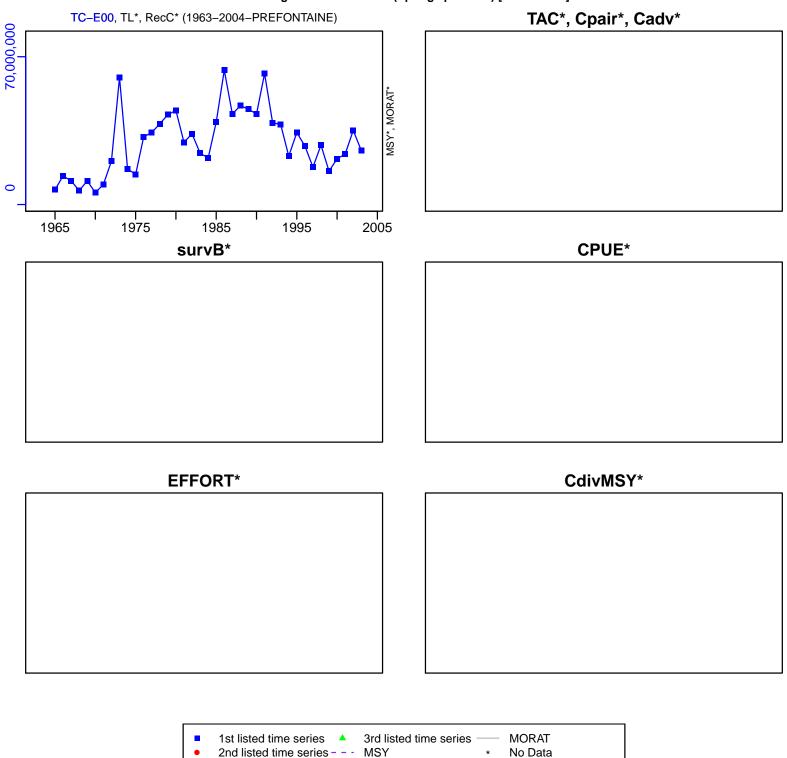


Start Year • End Year • No Data

Herring NAFO division 4R (Spring spawners) [HERR4RSP]



Herring NAFO division 4R (Spring spawners) [HERR4RSP]



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		

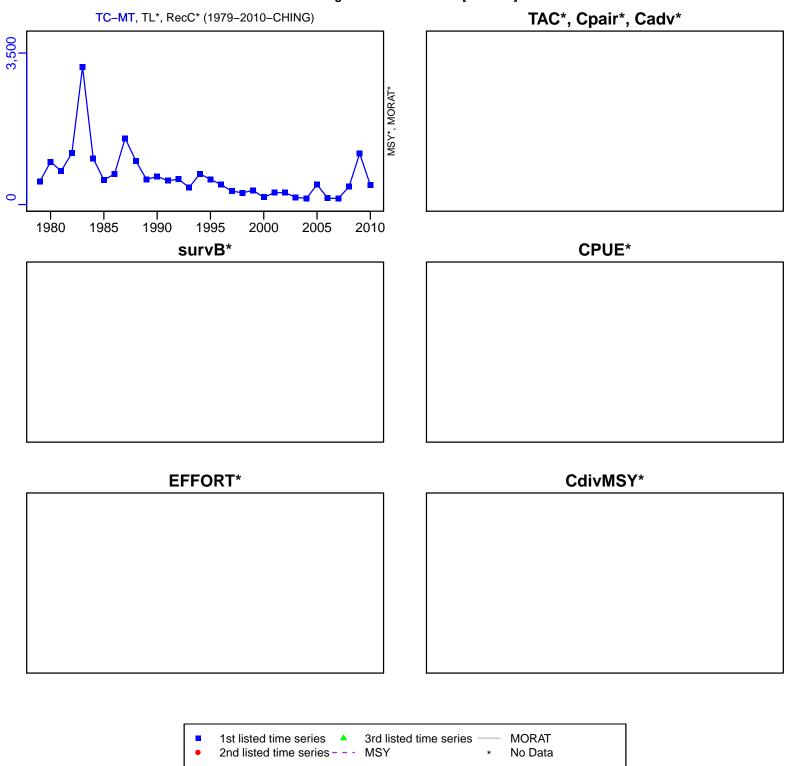
F	Reference Points				
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	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*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

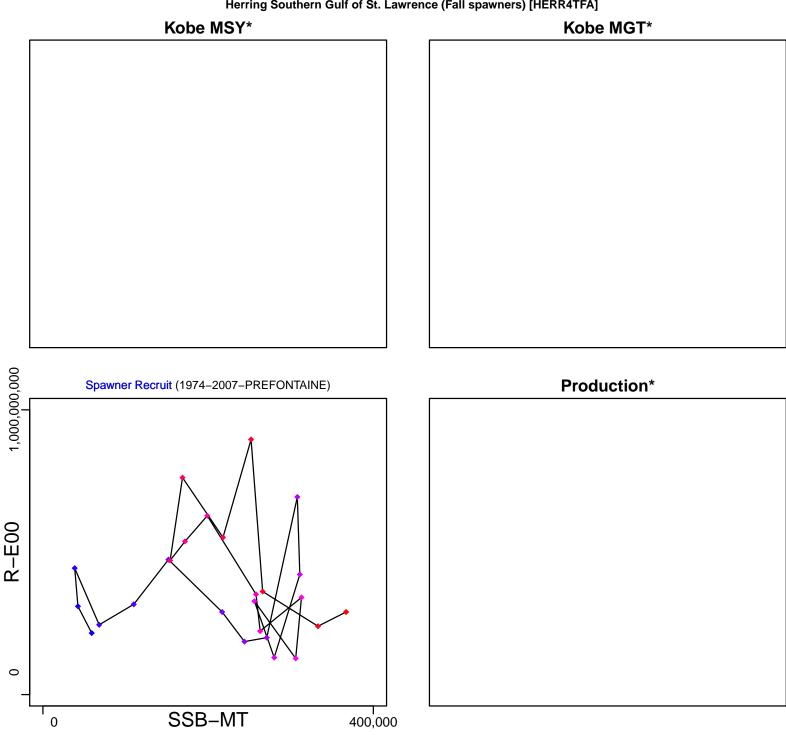


Herring Southern Gulf of St. Lawrence (Fall spawners) [HERR4TFA]

Metadata		
Scientific Name	Clupea harengus	
Current Assess ID	DFO-HERR4TFA-1978-2014-WATSON	
Area Southern Gulf of St. Lawrence (Fall spawners)		
Management 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	51,000	
Flim	-	-	-	
ERlim	-	-	-	

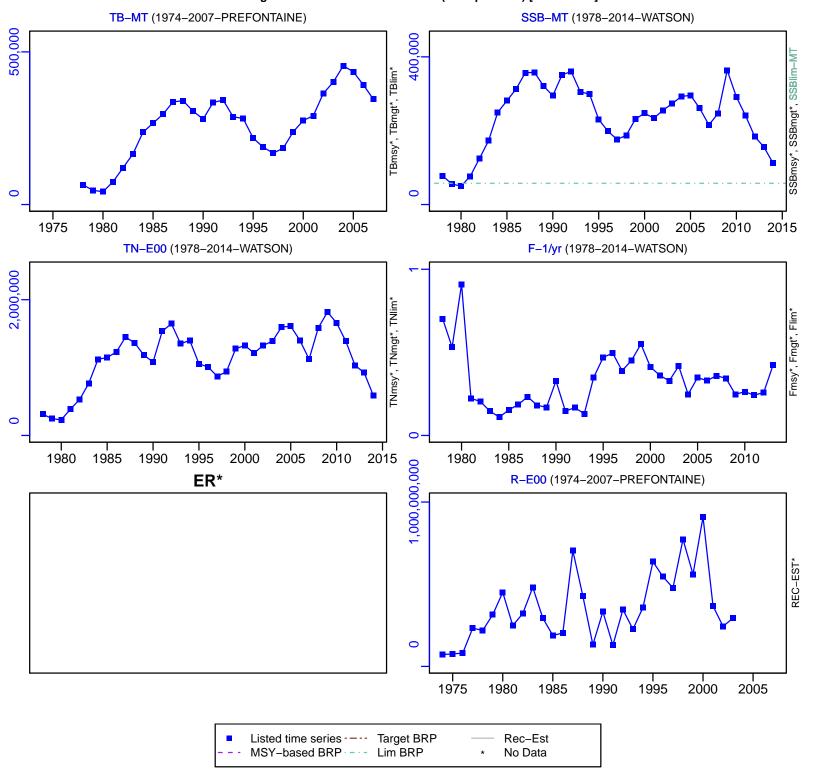
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2007	316,000	-	4+
SSB	SSB-MT	2014	99,000	Both	4 to 11
TN	TN-E00	2014	479,000	Both	4 to 11
R	R-E00	2007	2.9×10^{8}	-	4
F	F-1/yr	2014	0.423	Both	5 to 10
ER	-	-	-	-	-
TC	TC-MT	2014	34,400		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



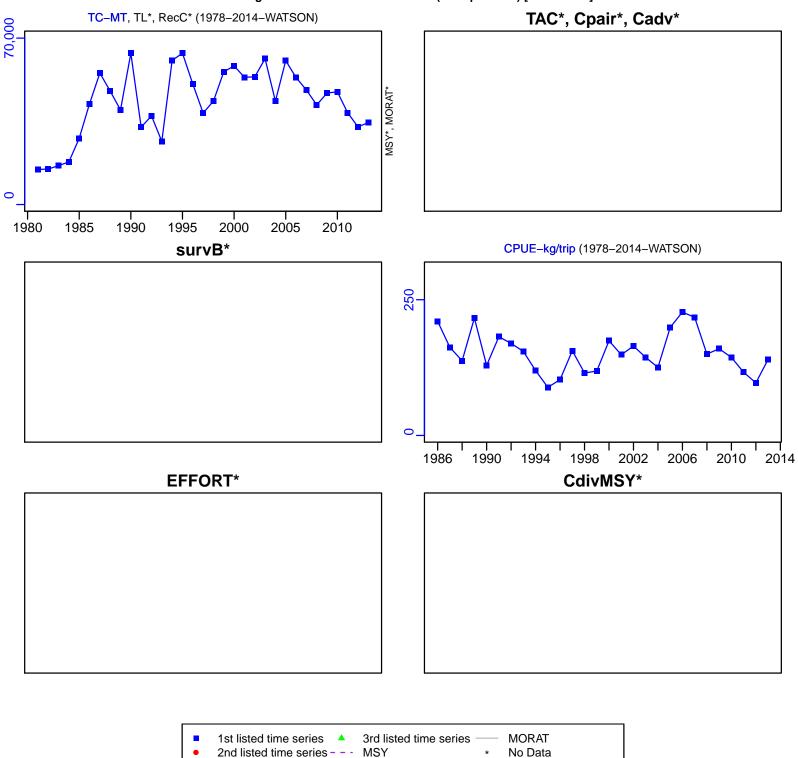
Start Year • End Year * No Data

0

Herring Southern Gulf of St. Lawrence (Fall spawners) [HERR4TFA]



Herring Southern Gulf of St. Lawrence (Fall spawners) [HERR4TFA]

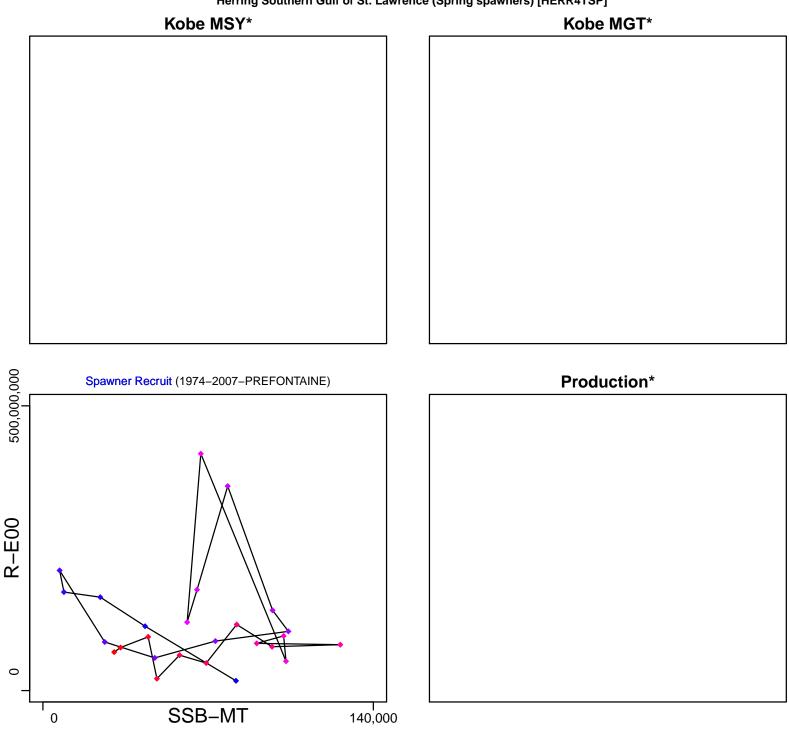


Herring Southern Gulf of St. Lawrence (Spring spawners) [HERR4TSP]

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

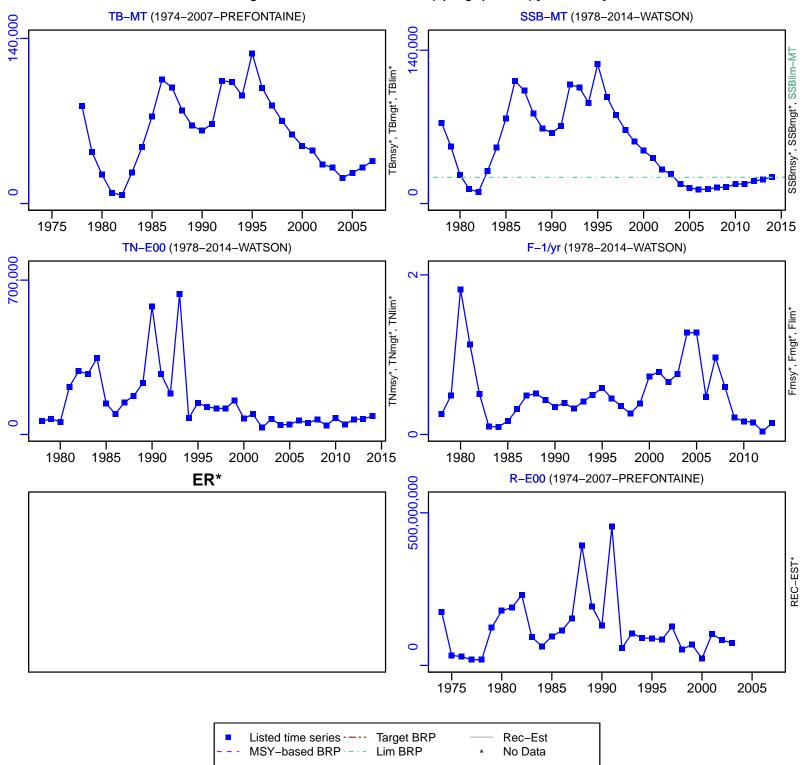
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	M-1/yr	2014	0.2	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2014	22,000	
Flim	-	-	-	
ERlim	-	-	-	

	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	0.137	Both	5 to 10
ER	-	-	-	-	-
TC	TC-MT	2014	1700		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

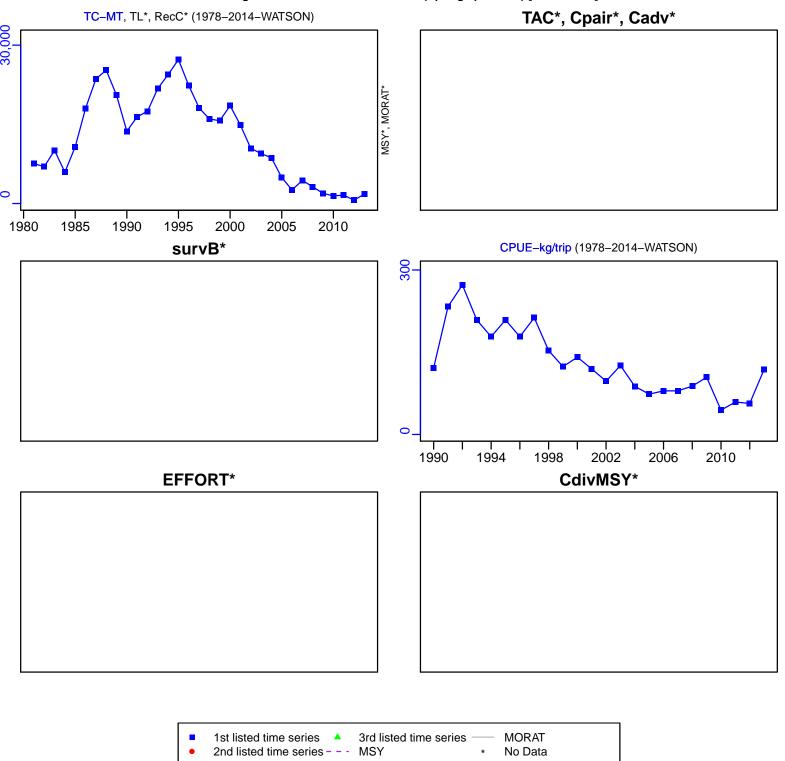


Start Year ◆ End Year * No Data

Herring Southern Gulf of St. Lawrence (Spring spawners) [HERR4TSP]



Herring Southern Gulf of St. Lawrence (Spring spawners) [HERR4TSP]

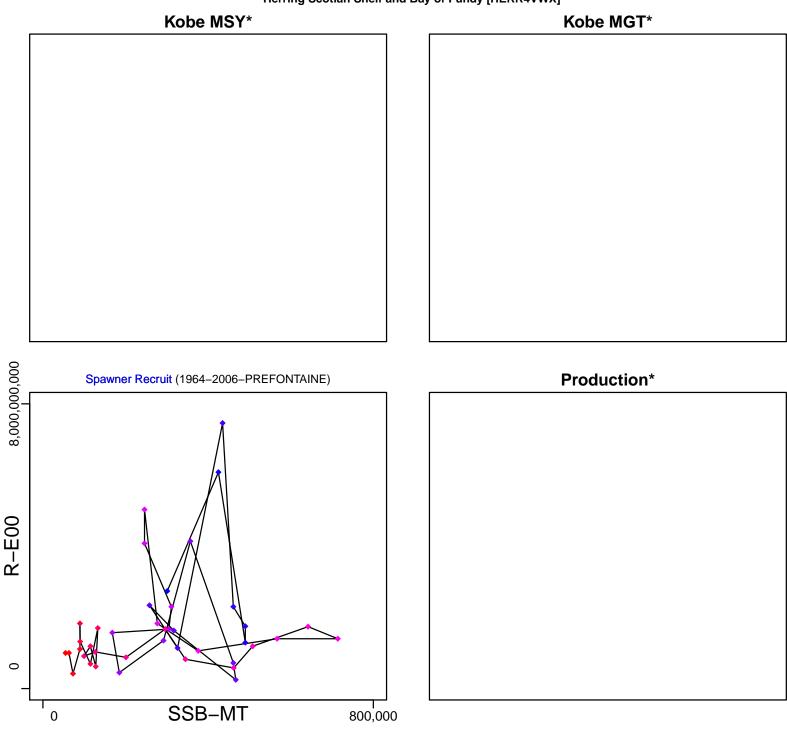


Herring Scotian Shelf and Bay of Fundy [HERR4VWX]

Metadata		
Scientific Name	Clupea harengus	
Current Assess ID	DFO-HERR4VWX-1963-2012-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	2012, 2006	

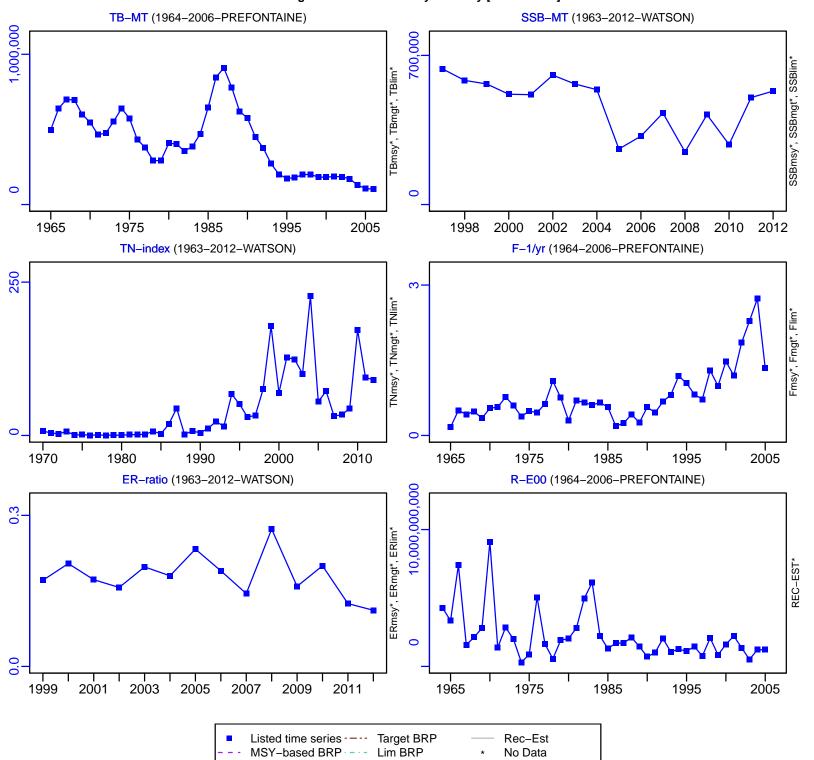
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2006	0.2		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2006	91,700	-	-
SSB	SSB-MT	2012	476,000	-	-
TN	TN-index	2012	83	-	-
R	R-E00	2006	1×10^9	-	1
F	F-1/yr	2006	1.21	-	5 to 8
ER	ER-ratio	2012	0.101	Both	-
TC	-	-	-		
TL	TL-MT	2012	47,600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

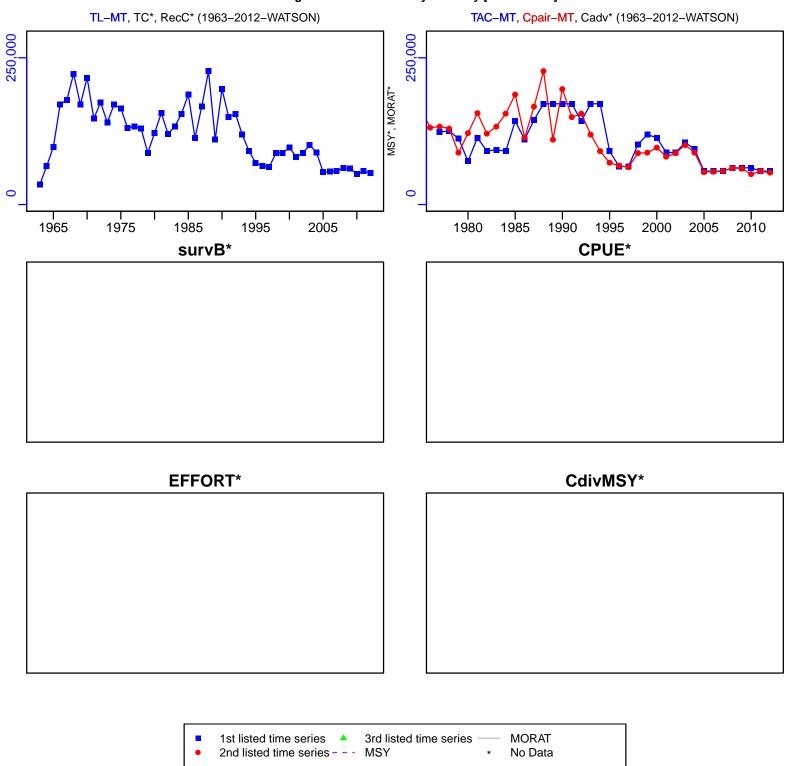


Start Year • End Year • No Data

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		

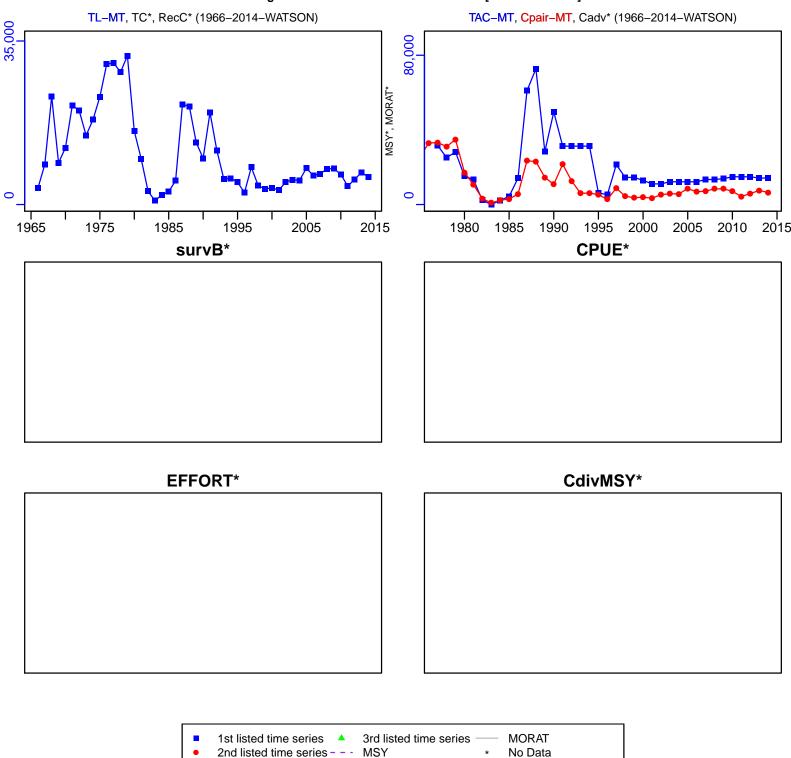
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F *
ED*	Doow.ito*
ER*	Recruits*
Listed time series T	proof PPD —— Poc. Ect
Listed time series Ta	arget BRP — Rec-Est m 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	-	-	-		

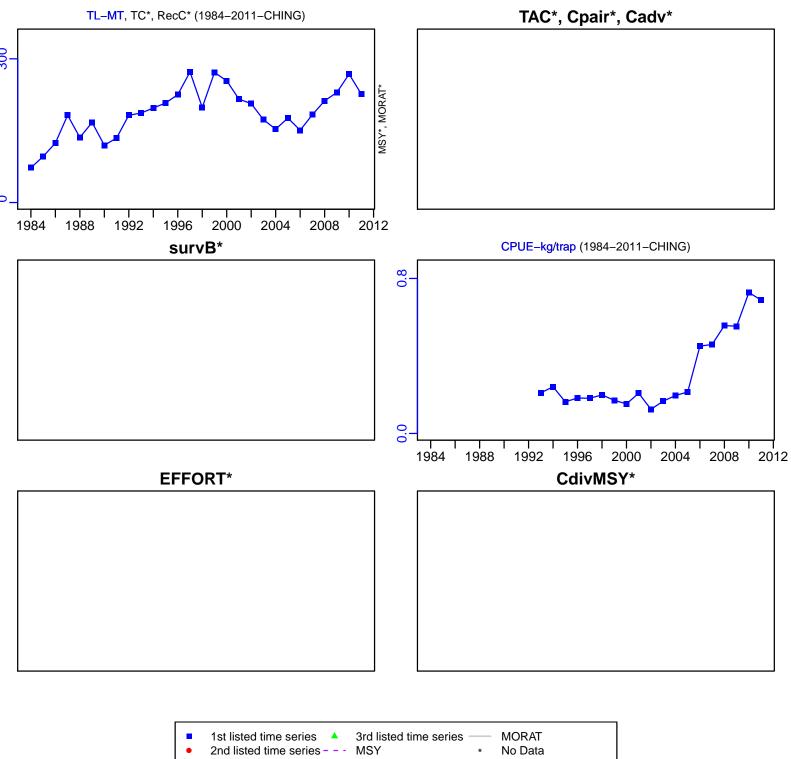
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	ı
F	-	-	-	-	ı
ER	-	-	-	-	ı
TC	-	-	-		
TL	TL-MT	2011	195		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

◆ Start Year ◆ End Year ∗ No Data

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		

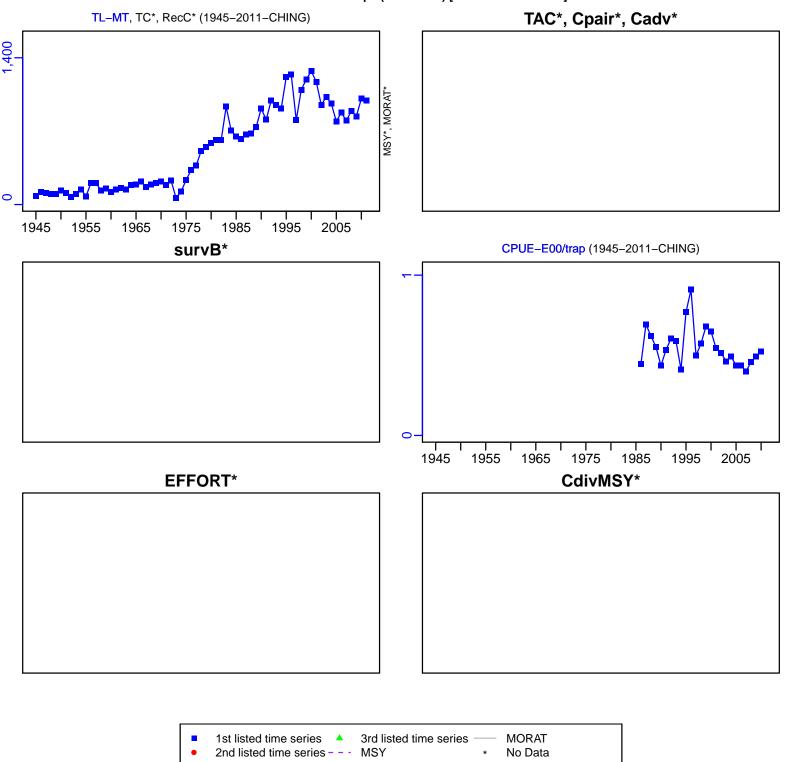
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*

◆ Start Year ◆ End Year * No Data

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



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			

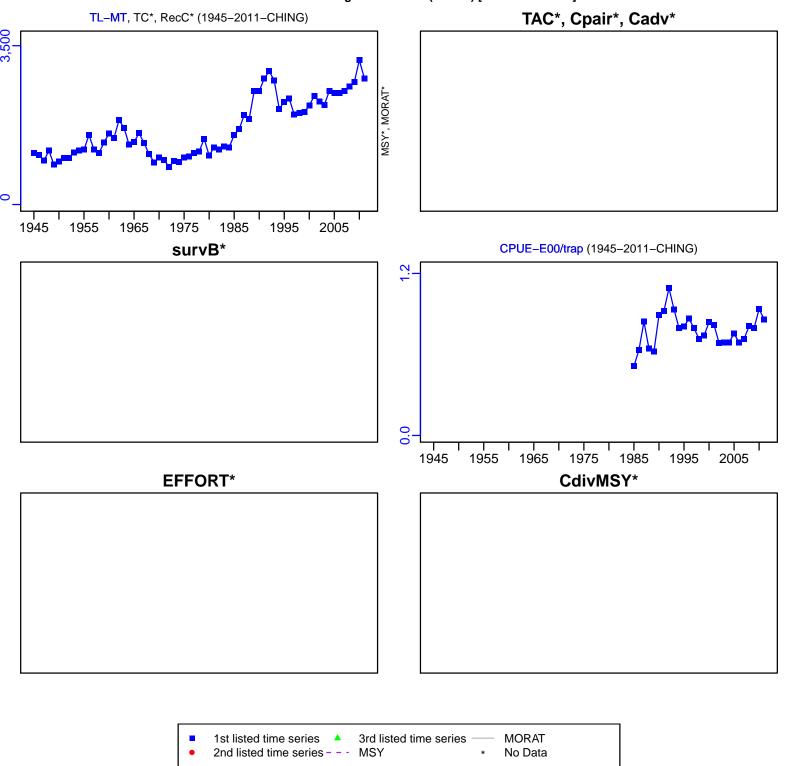
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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*
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*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	m BRP * No Data



American lobster Southern Gulf of St. Lawrence [LOBSTERLFA23-26AB]

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	-	-	-		

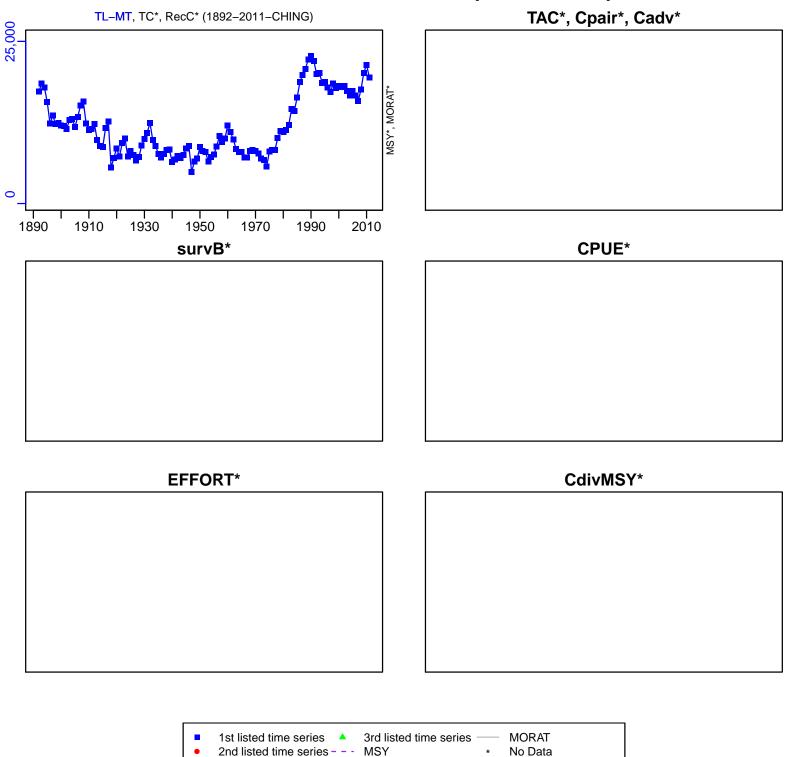
American lobster Southern Gulf of St. Lawrence [LOBSTERLFA23-26AB]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

American lobster Southern Gulf of St. Lawrence [LOBSTERLFA23-26AB]

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

American lobster Southern Gulf of St. Lawrence [LOBSTERLFA23-26AB]



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	

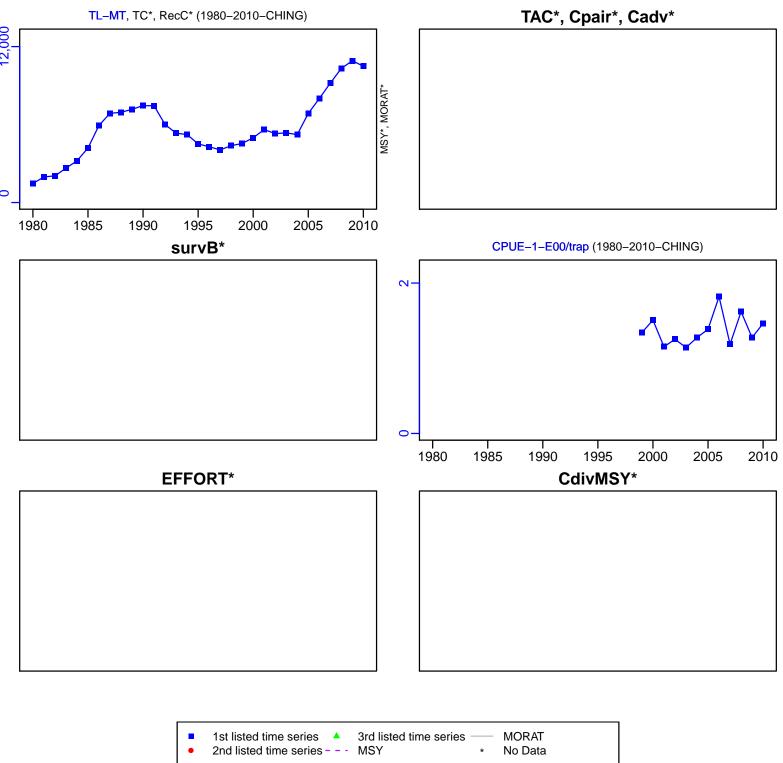
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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*
	l
Spawner Recruit*	Production*

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

TB*	SSB*
TN *	F*
ED*	Pooruito*
ER*	Recruits*
Linted time povice T	protect PPD ——————————————————————————————————
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data



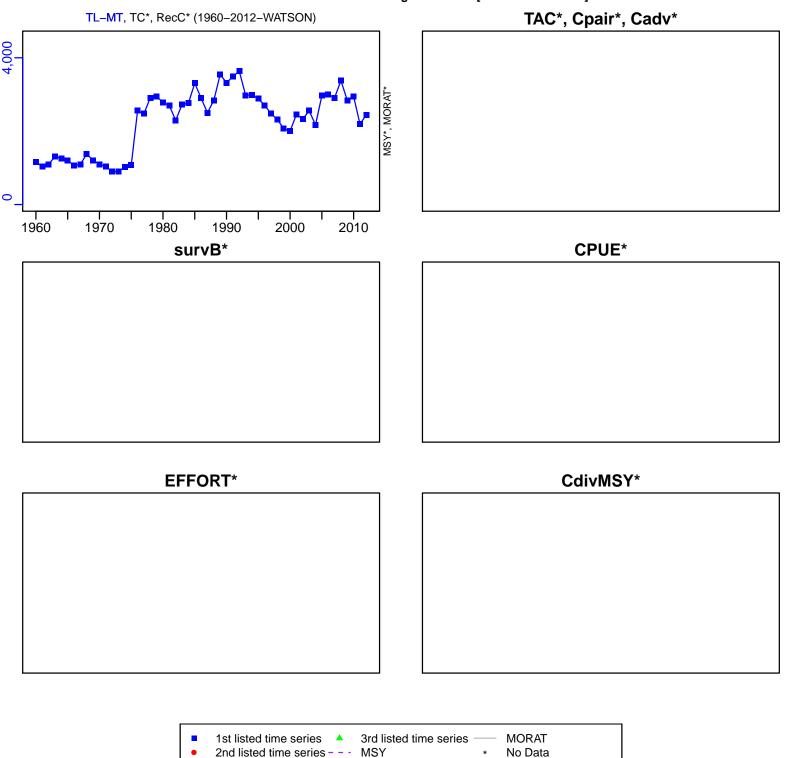
Metadata		
Scientific Name	Homarus americanus	
Current Assess ID	DFO-LOBSTERLFA3-14-1960-2012-WATSON	
Area	Lobster Fishing Areas 3-14	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2012	

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 MGT*
Production*

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



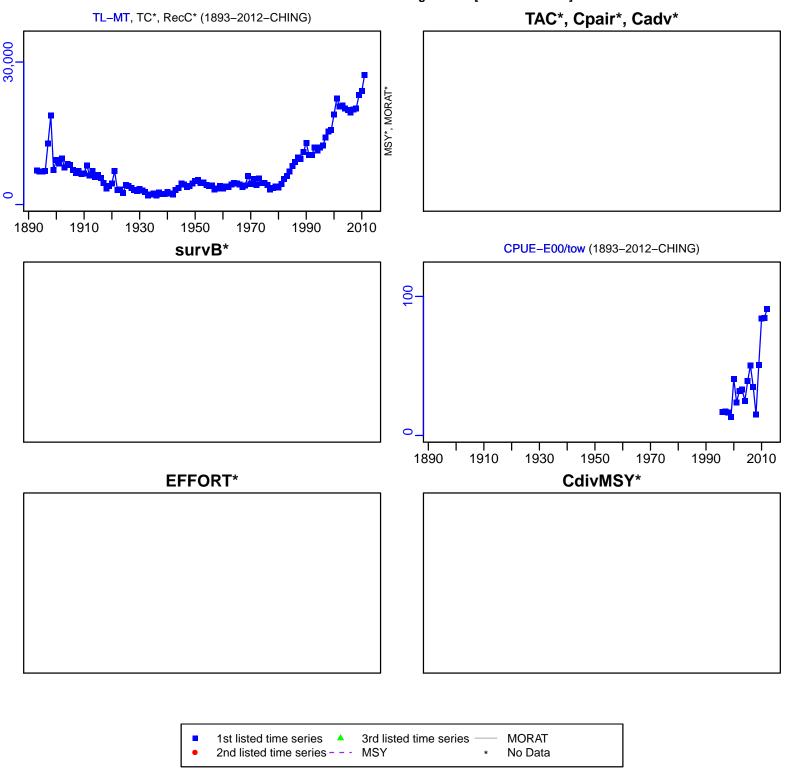
Metadata			
Scientific Name Homarus americanus			
Current Assess ID DFO-MAR-LOBSTERLFA34-1893-2012-CHING			
Area Lobster Fishing Area 34			
Management Authority Department of Fisheries and Oceans, Canada national manager			
Assessor Department of Fisheries and Oceans - Maritimes Region			
Asmts in RAM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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
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	23,300		
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*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data



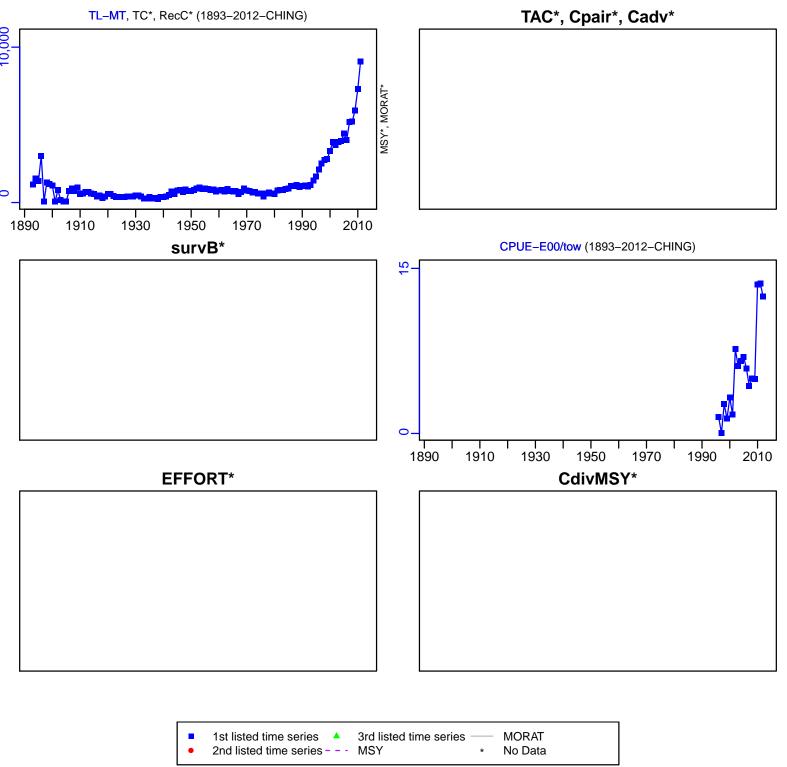
Metadata			
Scientific Name	Homarus americanus		
Current Assess ID DFO-MAR-LOBSTERLFA35-38-1893-2012-CHING			
Area Lobster Fishing Areas 35-38			
Management Authority Department of Fisheries and Oceans, Canada national managem			
Assessor	Department of Fisheries and Oceans - Maritimes Region		
Asmts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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
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	8470		
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*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data



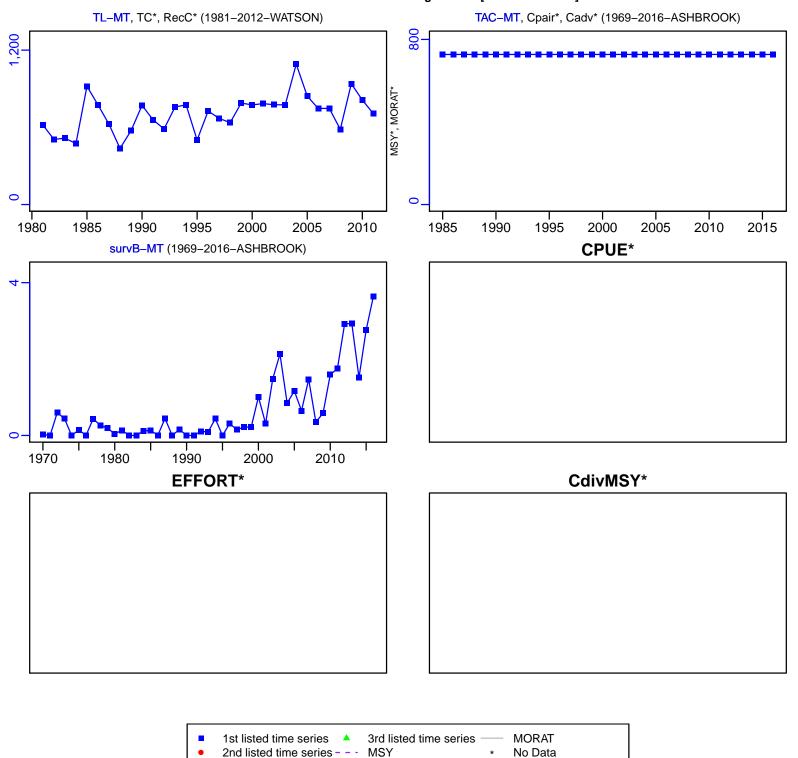
Metadata			
Scientific Name Homarus americanus			
Current Assess ID DFO-MAR-LOBSTERLFA41-1969-2016-ASHBROOK			
Area Lobster Fishing Area 41			
Management Authority Department of Fisheries and Oceans, Canada national manager			
Assessor Department of Fisheries and Oceans - Maritimes Region			
Asmts in RAM	2012, 2016		

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
TB	-	-	-	-	-
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*
Snawner Recruit*	Production*
Spawner Recruit*	
Opawner Recitate	
Opawner Recitate	
Opawner Recruit	
Opawner receruit	
Opawner receruit	

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

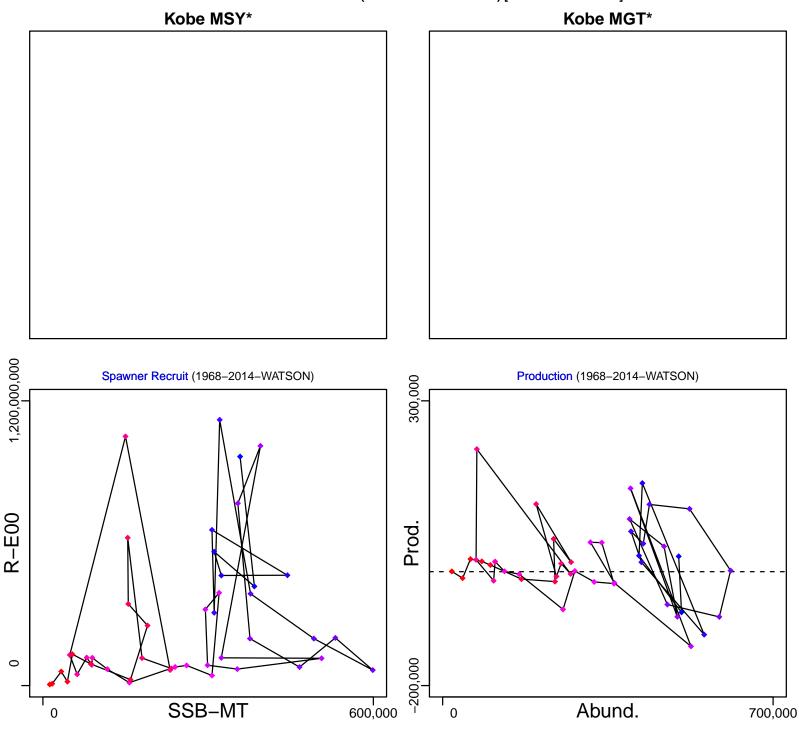


Mackerel Northwest Atlantic (NAFO Subareas 3 and 4) [MACKNWATLSA3-4]

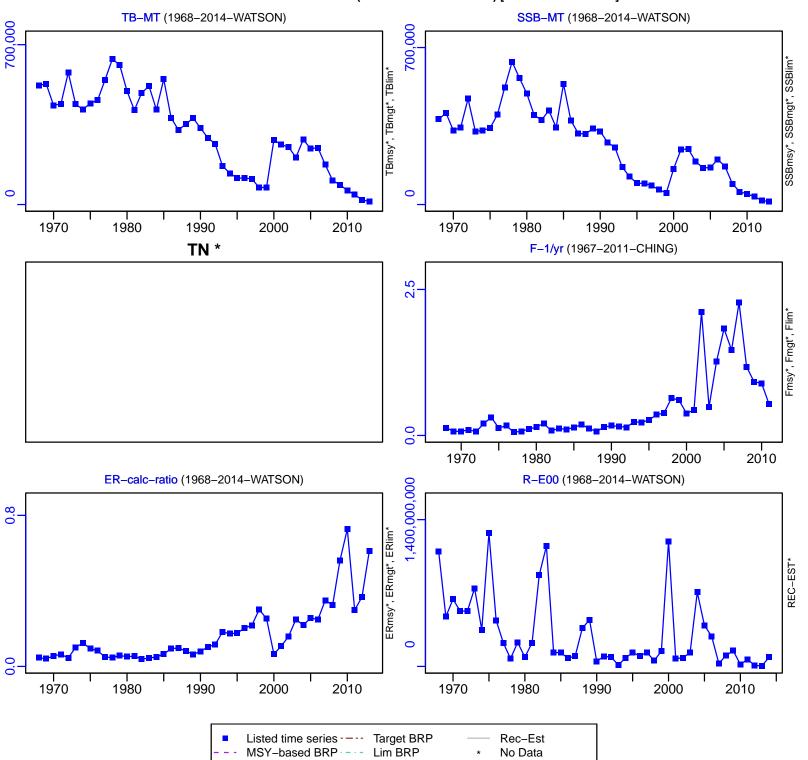
Metadata		
Scientific Name	Scomber scombrus	
Current Assess ID	DFO-MACKNWATLSA3-4-1968-2014-WATSON	
Area	Northwest Atlantic (NAFO Subareas 3 and 4)	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014, 2011	

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

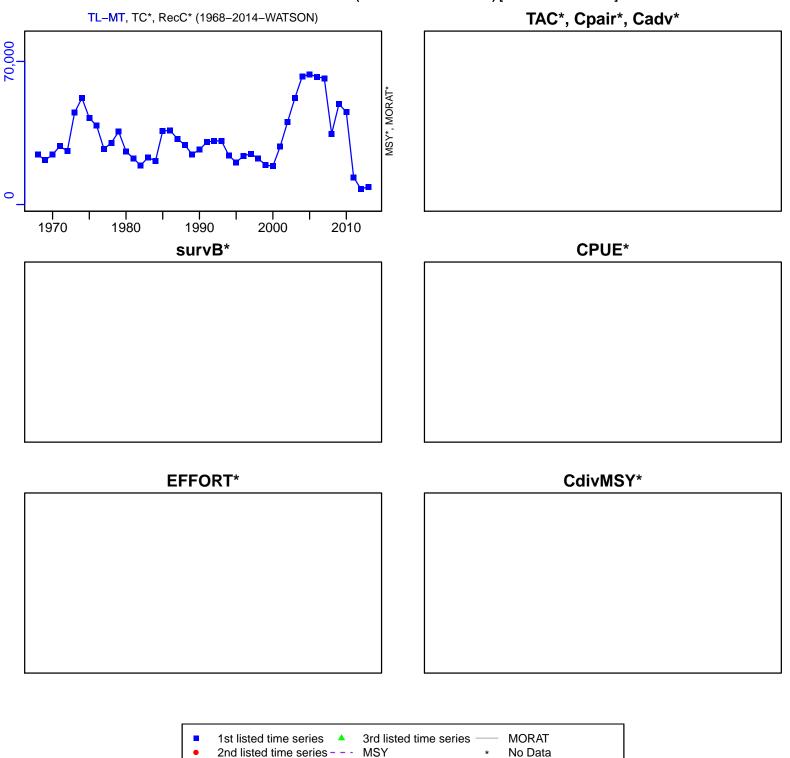
	Time Series				
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2014	13,400	-	-
SSB	SSB-MT	2014	12,500	-	1.37
TN	-	-	-	-	-
R	R-E00	2014	77,100,000	-	-
F	F-1/yr	2011	0.468	-	8+
ER	ER-calc-ratio	2014	0.554	-	-
TC	-	-	-		
TL	TL-MT	2014	7430		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



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



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



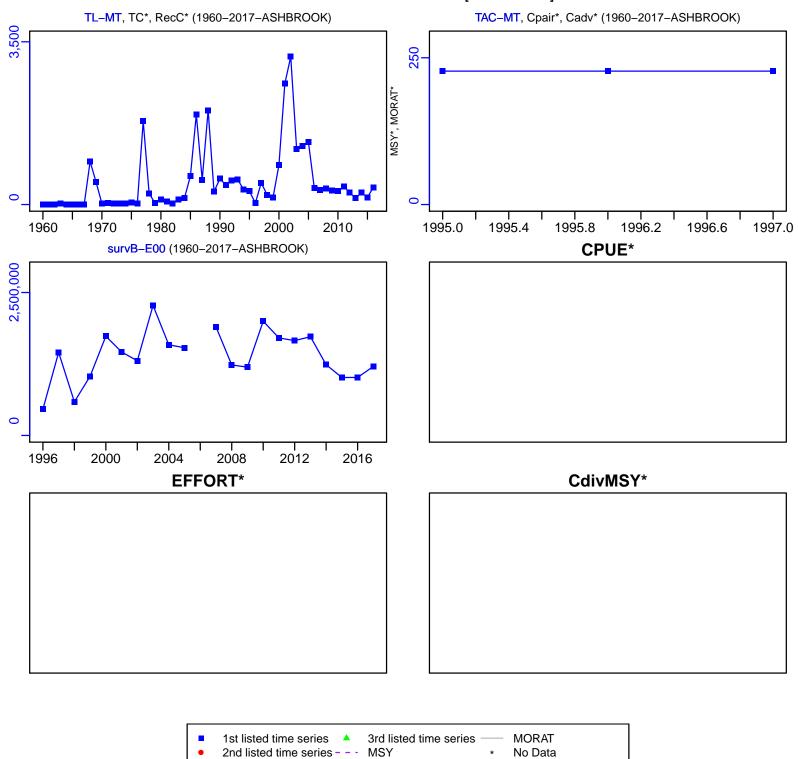
Metadata		
Scientific Name	Lophius americanus	
Current Assess ID	DFO-NFLD-MONK3LNOPs-1960-2017-ASHBROOK	
Area	NAFO Divisions 3LNOPs	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Newfoundland Region	
Asmts in RAM	2017	

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

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	360		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MGT*
Production*

TB*	SSB*
TN *	F*
ED*	Pooruito*
ER*	Recruits*
Linted time povice T	protect PPD ——————————————————————————————————
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data

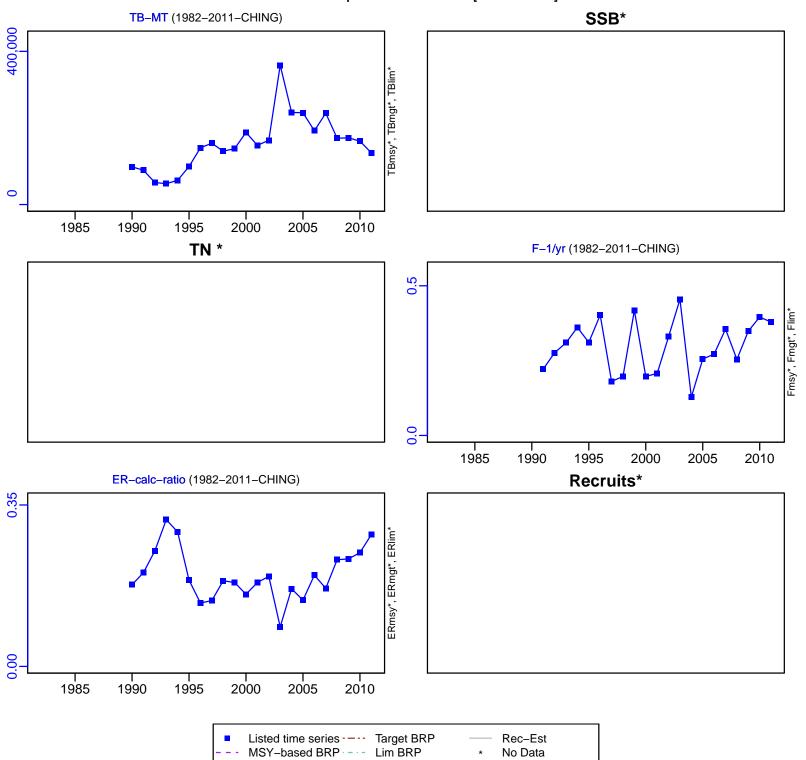


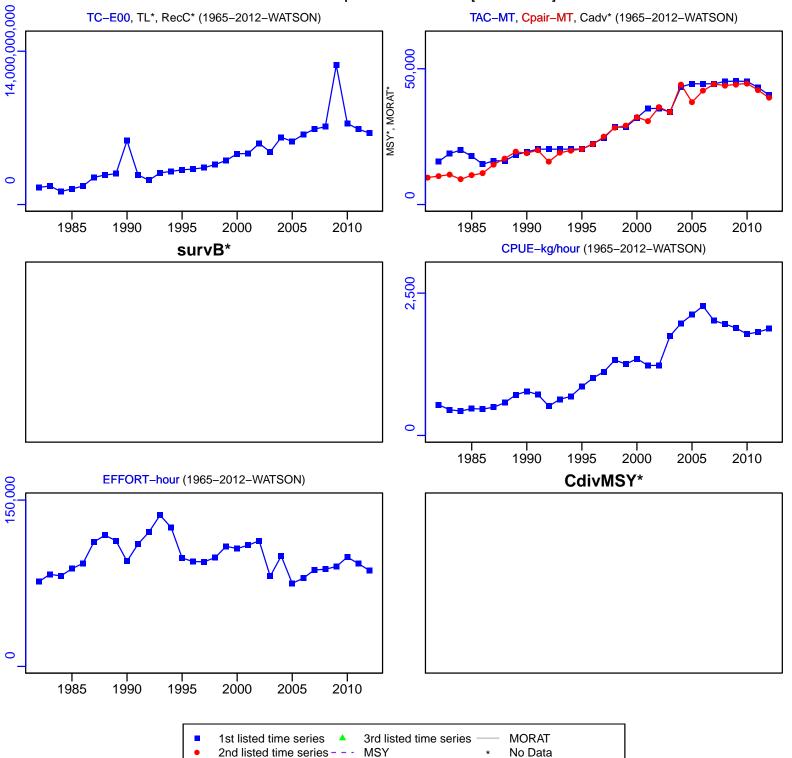
Metadata		
Scientific Name	Pandalus borealis	
Current Assess ID	DFO-PANDAL4RST-1965-2012-WATSON	
Area	Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2012, 2011	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
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	0.277	-	-
TC	TC-E00	2012	6.01×10^{9}		
TL	TL-MT	2012	32,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*



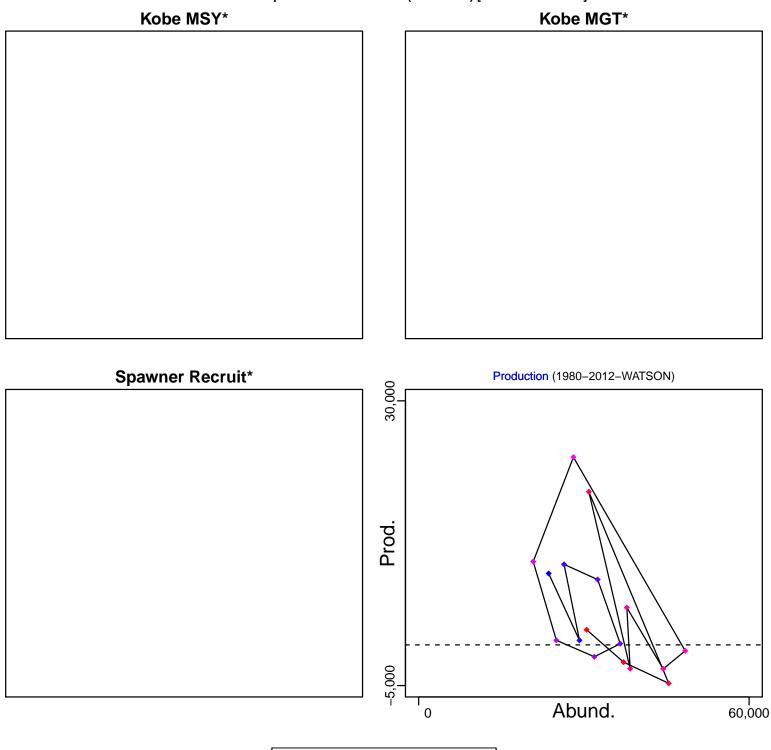


Northern shrimp Eastern Scotian Shelf (SFA 13-15) [PANDALSFA13-15]

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		

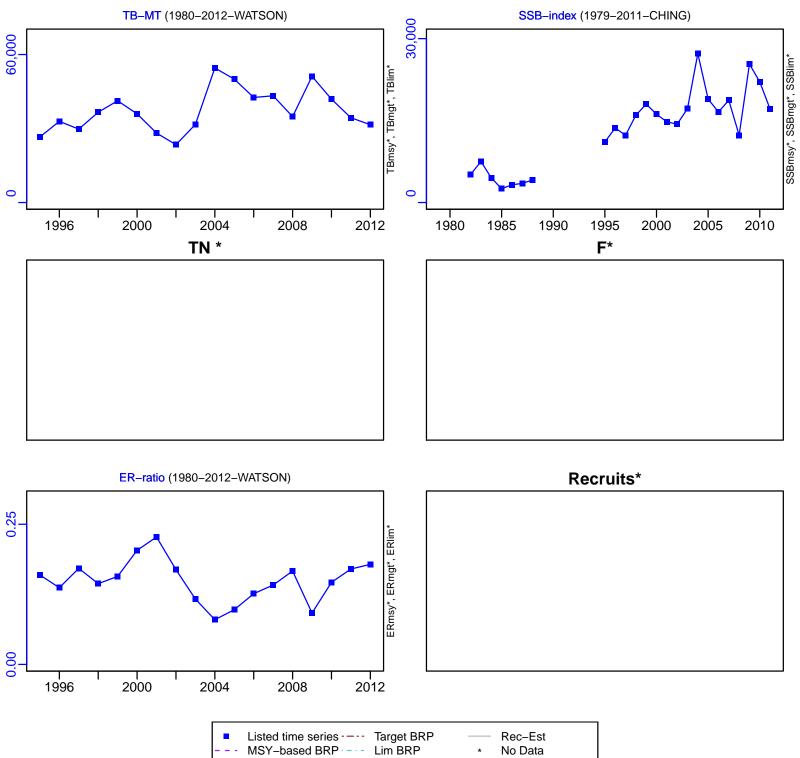
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	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	-	-	-		



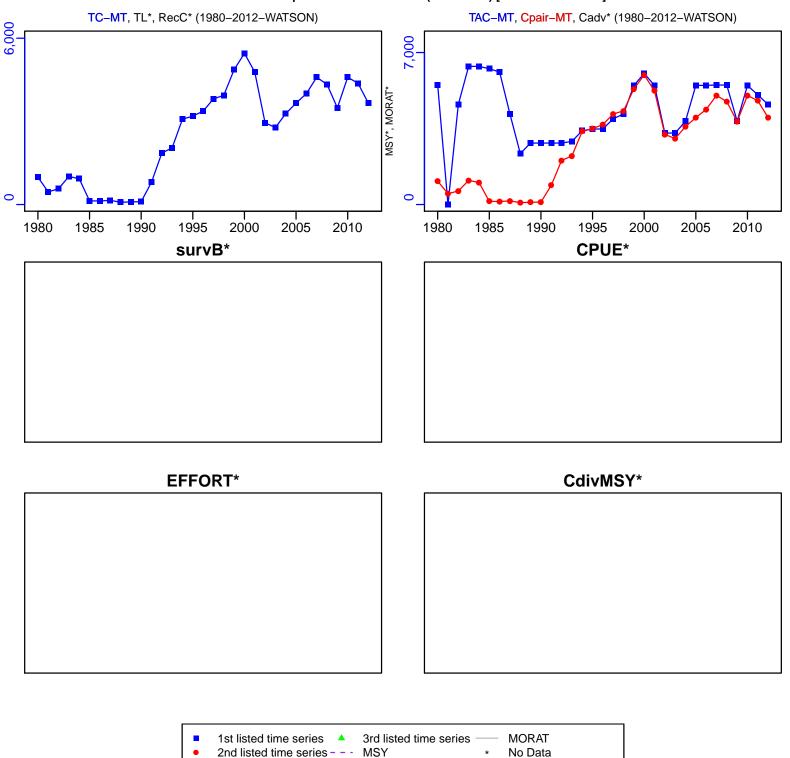
Start Year ◆ End Year * No Data

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



No Data

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

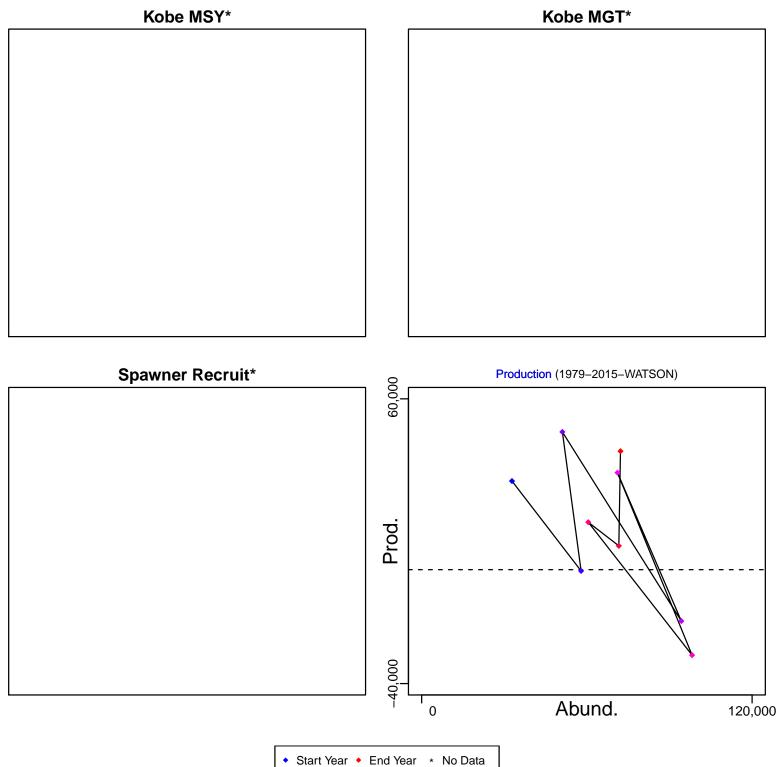


Northern shrimp Shrimp Fishing Areas 2-3 [PANDALSFA2-3]

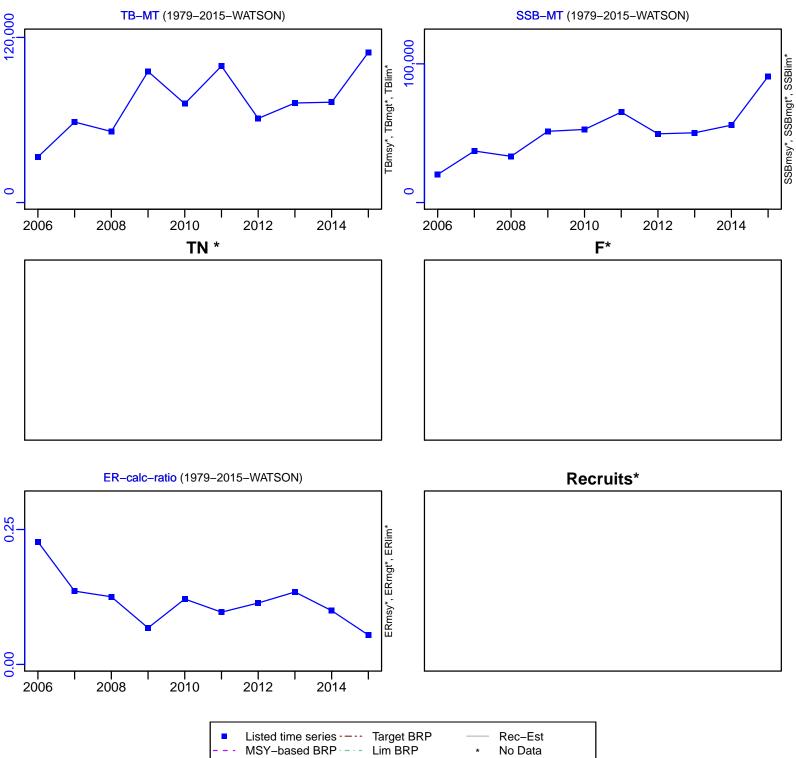
Metadata			
Scientific Name	Pandalus borealis		
Current Assess ID	DFO-ARCTIC-PANDALSFA2-3-1979-2015-WATSON		
Area Shrimp Fishing Areas 2-3			
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans - Arctic Region		
Asmts in RAM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

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
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	0.044	-	-
TC	TC-MT	2015	4760		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

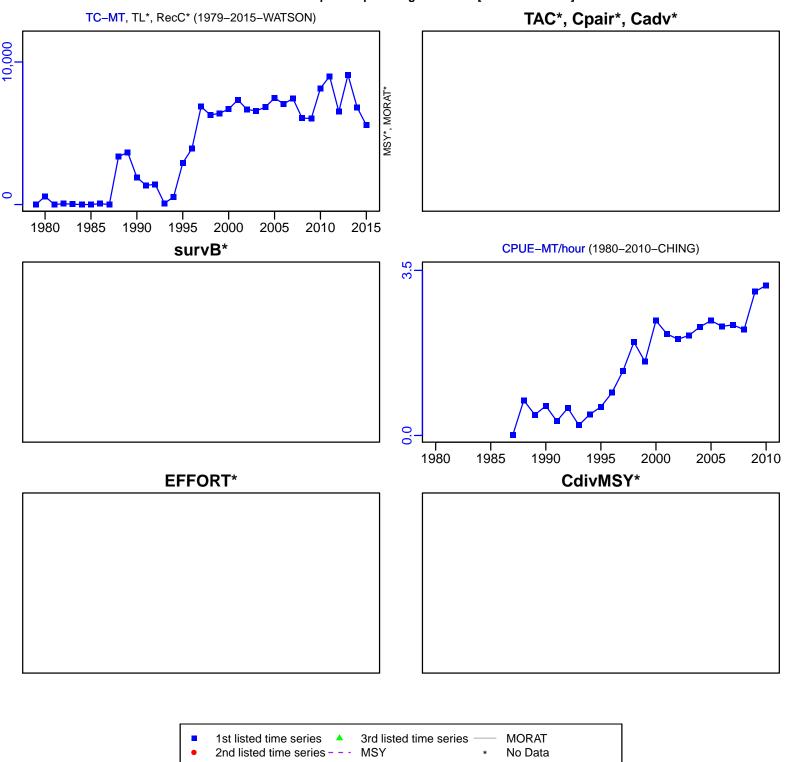


Northern shrimp Shrimp Fishing Areas 2-3 [PANDALSFA2-3]



No Data

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

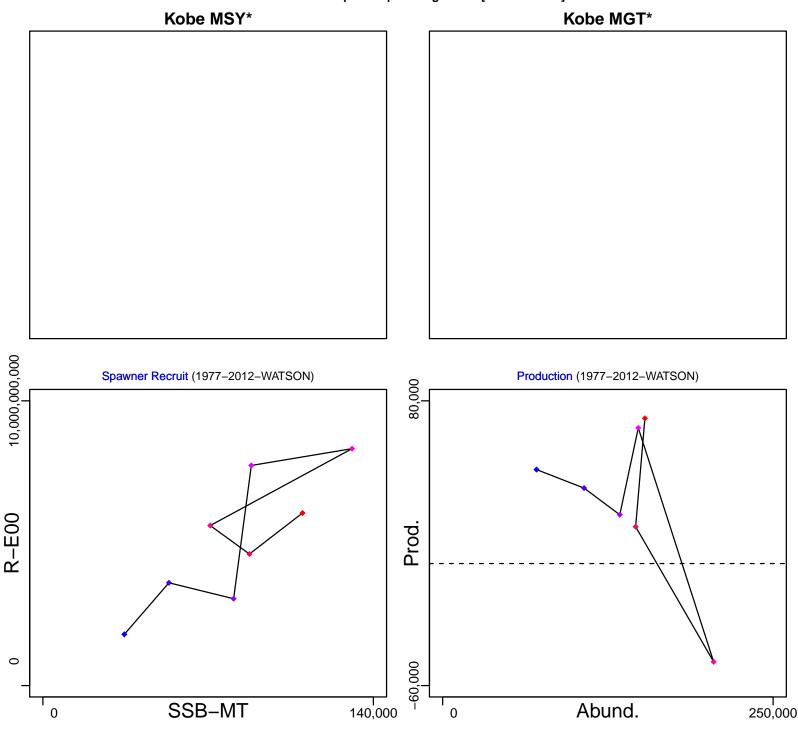


Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

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		

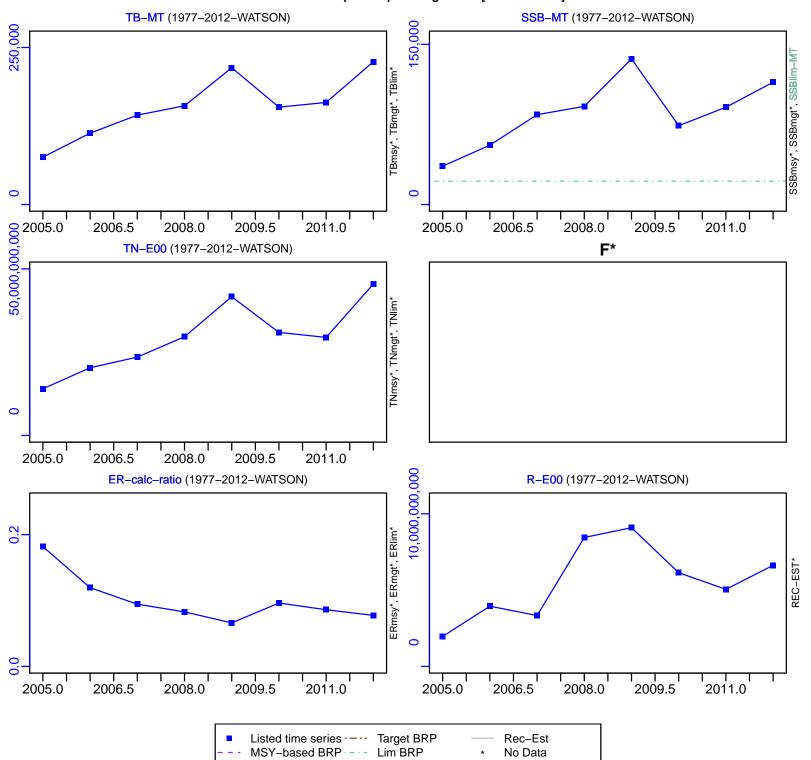
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2012	21,000	
Flim	-	-	-	
ERlim	-	-	-	

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	4.54×10^{10}	-	-
R	R-E00	2012	6.06×10^{9}	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.061	-	-
TC	TC-MT	2012	13,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	1	-	-		
F/Fmsy	1	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

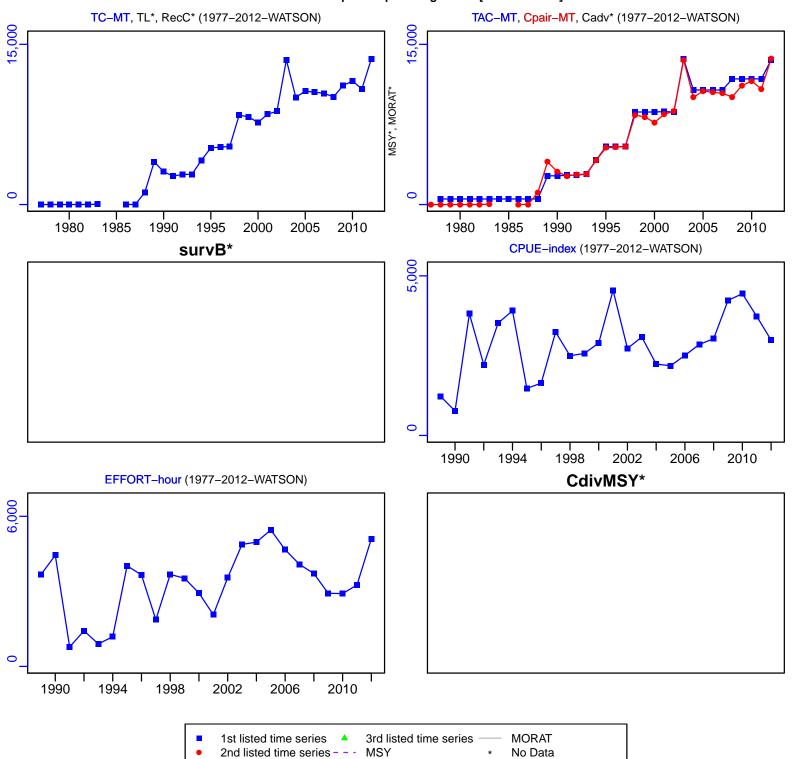


Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]



Northern shrimp Shrimp Fishing Area 4 [PANDALSFA4]

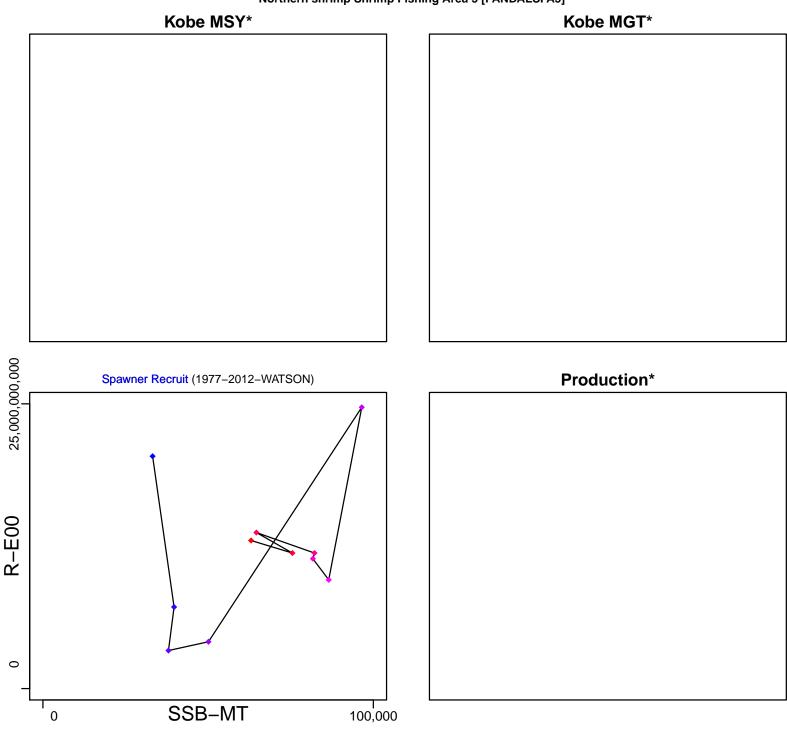


Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

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 manageme			
Assessor Department of Fisheries and Oceans			
Asmts in RAM	2012		

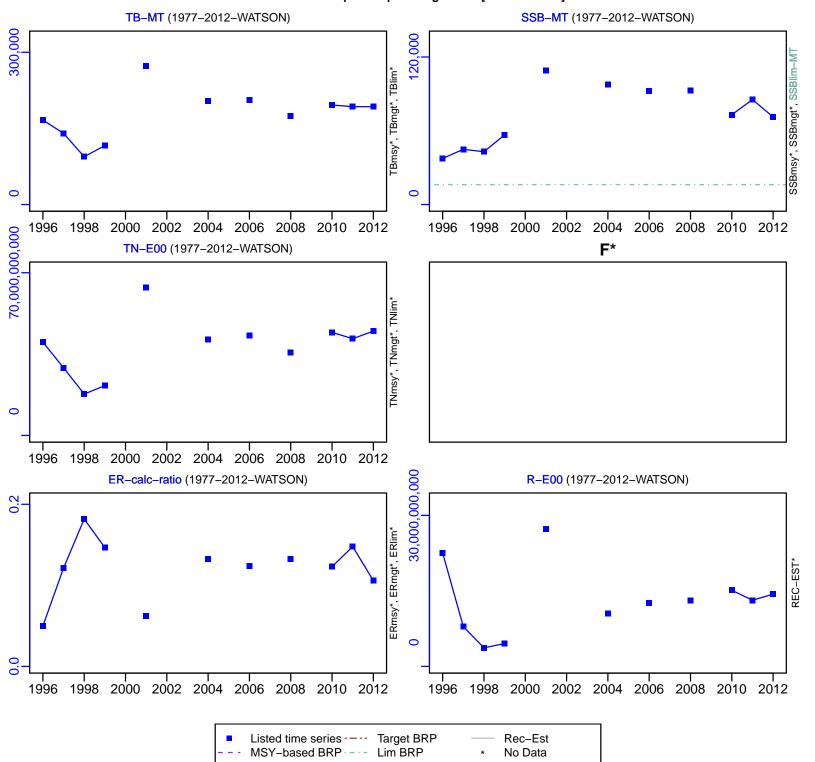
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	SSBlim-MT	2012	14,300	
Flim	-	-	-	
ERlim	-	-	-	

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	4.38×10^{10}	-	-
R	R-E00	2012	1.3×10^{10}	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.103	-	-
TC	TC-MT	2012	18,100		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

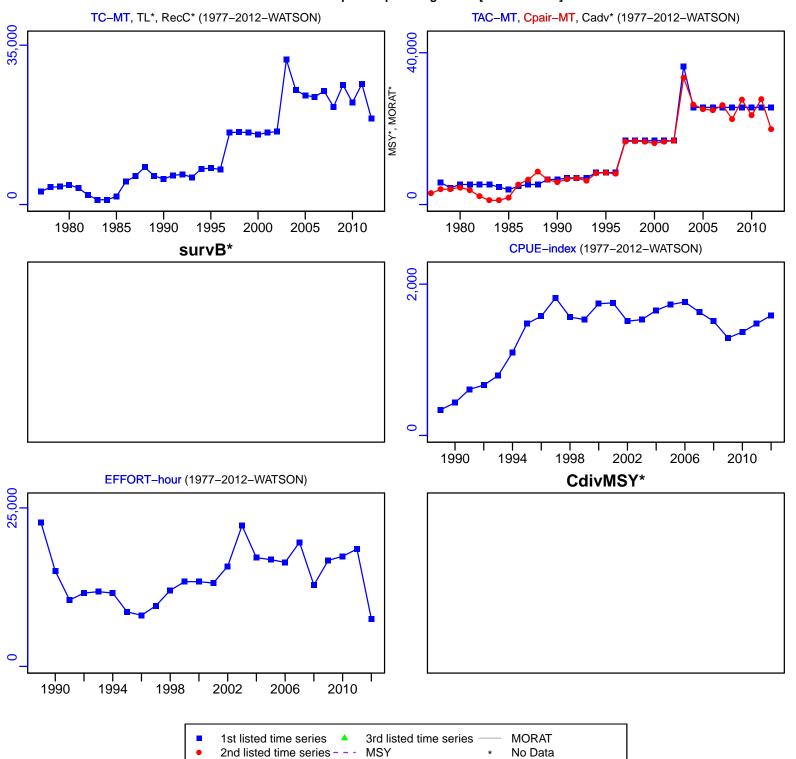


Start Year • End Year * No Data

Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]



Northern shrimp Shrimp Fishing Area 5 [PANDALSFA5]

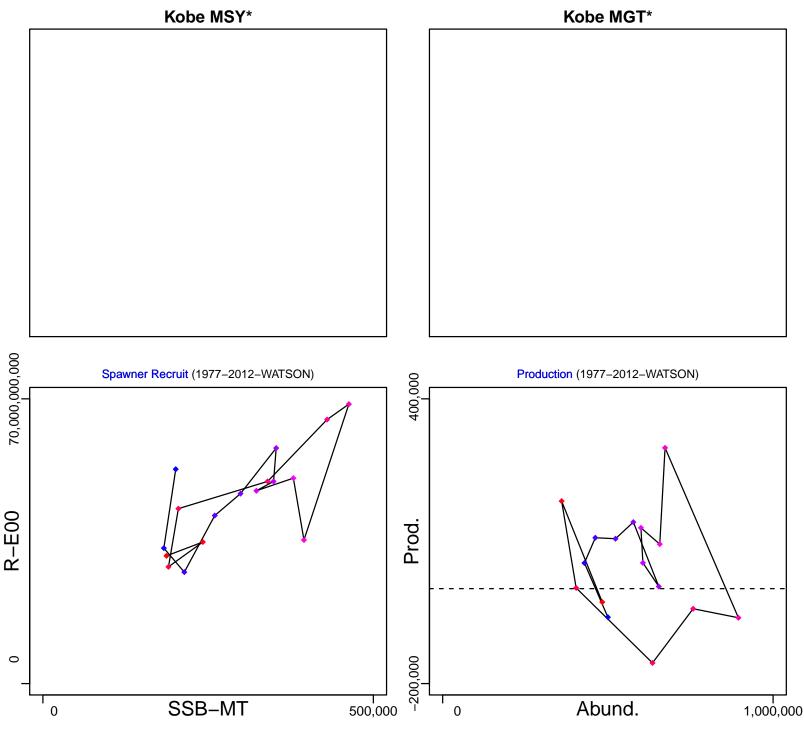


Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]

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		

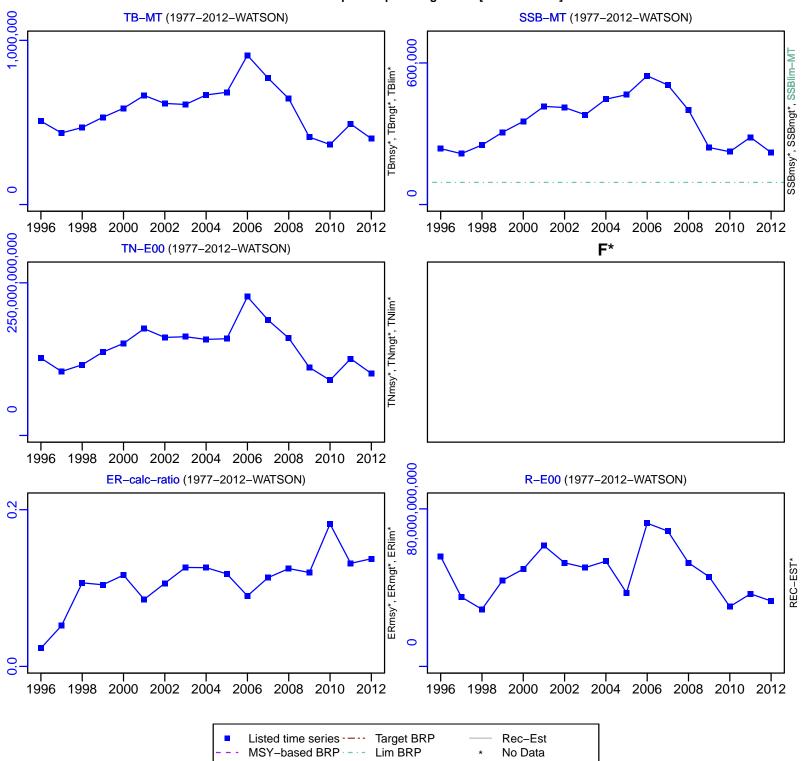
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	SSBlim-MT	2012	79,600		
Flim	-	-	-		
ERlim	-	-	-		

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	9.29×10^{10}	-	-
R	R-E00	2012	3.14×10^{10}	-	-
F	-	-	-	-	-
ER	ER-calc-ratio	2012	0.129	-	-
TC	TC-MT	2012	51,000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	1	-	-		
F/Fmsy	1	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

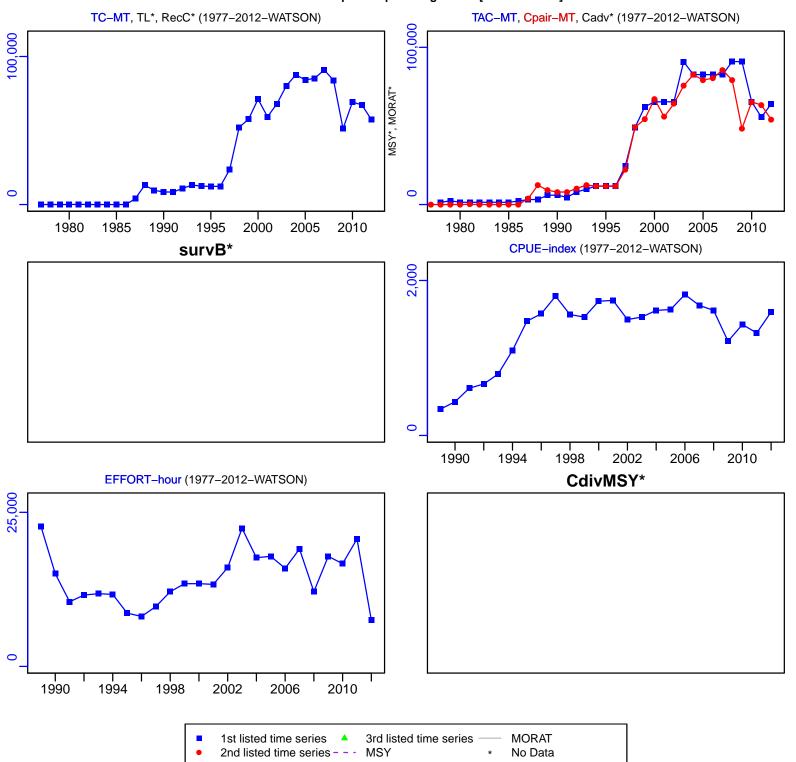


Start Year ◆ End Year * No Data

Northern shrimp Shrimp Fishing Area 6 [PANDALSFA6]



Northern shrimp Shrimp Fishing Area 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	

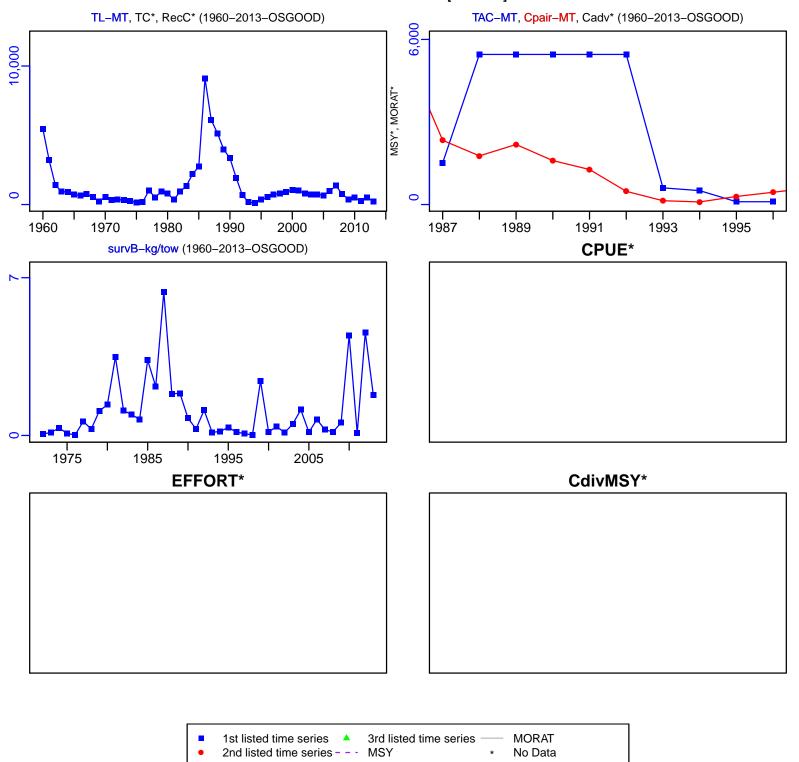
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	184		
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*
EK	Recruits
■ Listed time series Ta MSY-based BRP Li	arget BRP — Rec-Est
MSY-based BRP Li	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 management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	2011	

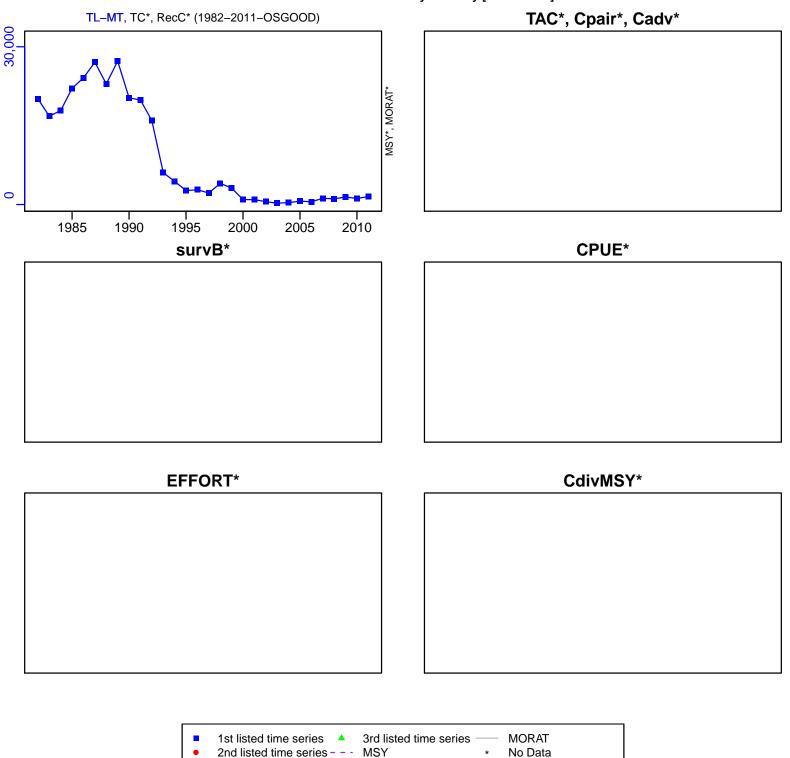
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
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*
TN *	F*
FD.	D
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
	im BRP * No Data

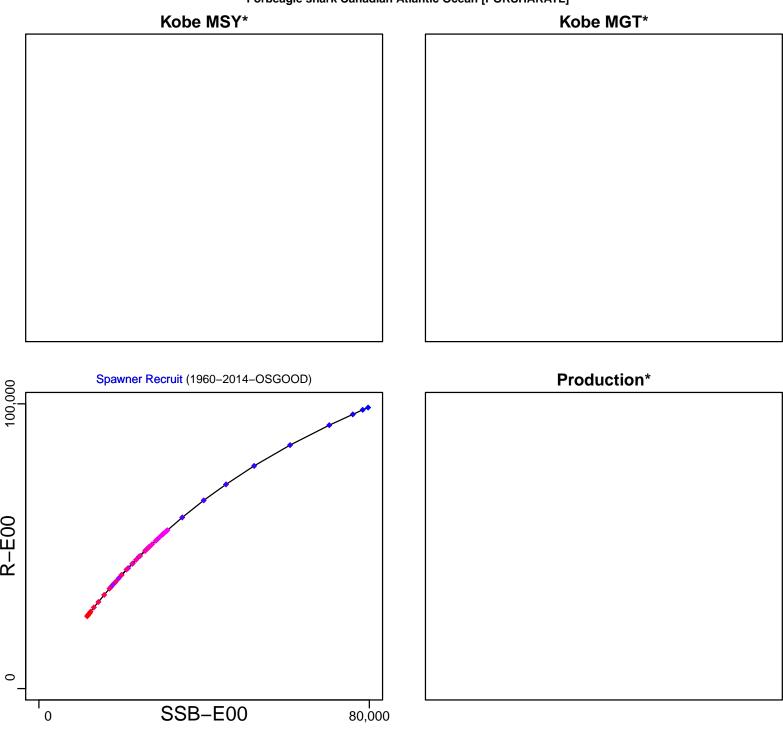


Porbeagle shark Canadian Atlantic Ocean [PORSHARATL]

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 management	
Assessor	Department of Fisheries and Oceans	
Asmts in RAM	2014	

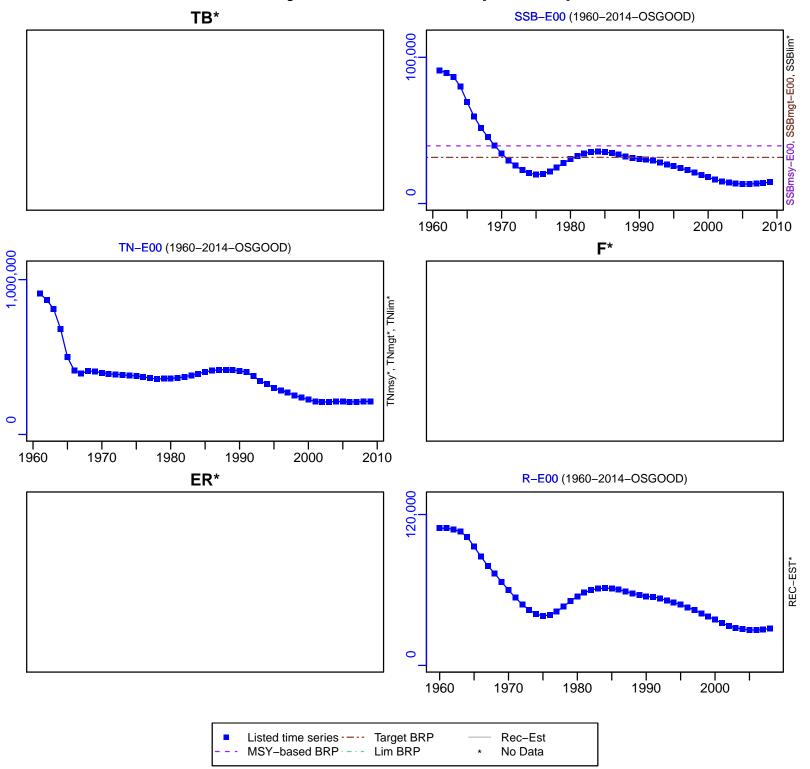
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	SSBmsy-E00	2014	34,573	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	SSBmgt-E00	2014	27,658	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2014	0.2	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.373		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00/SSBmgt-E00	2014	0.466		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

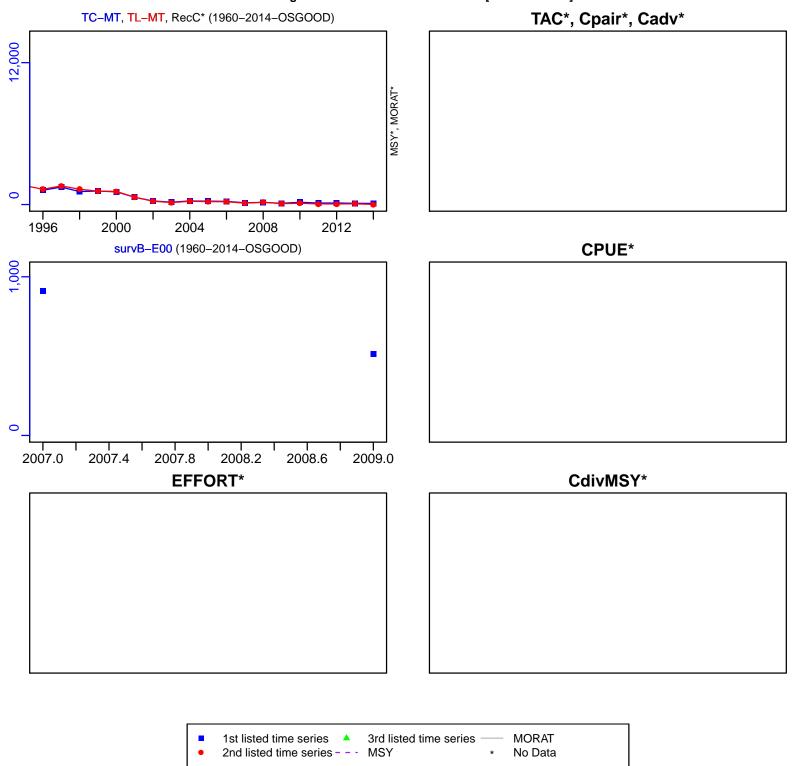


Start Year • End Year * No Data

Porbeagle shark Canadian Atlantic Ocean [PORSHARATL]



Porbeagle shark Canadian Atlantic Ocean [PORSHARATL]

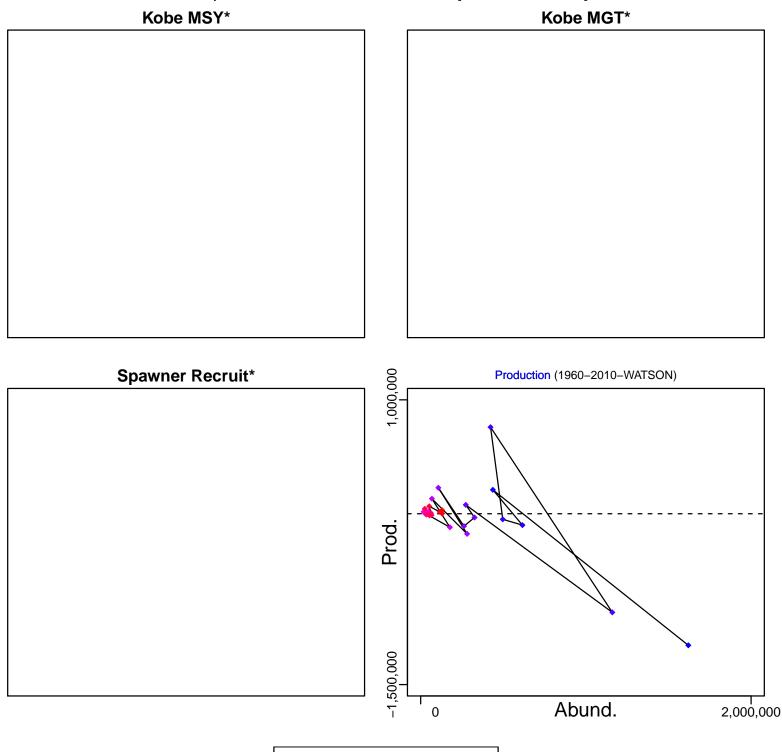


Deepwater redfish NAFO Divisions 2J3K-3LNO [REDDEEP2J3K-3LNO]

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 managem				
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2010			

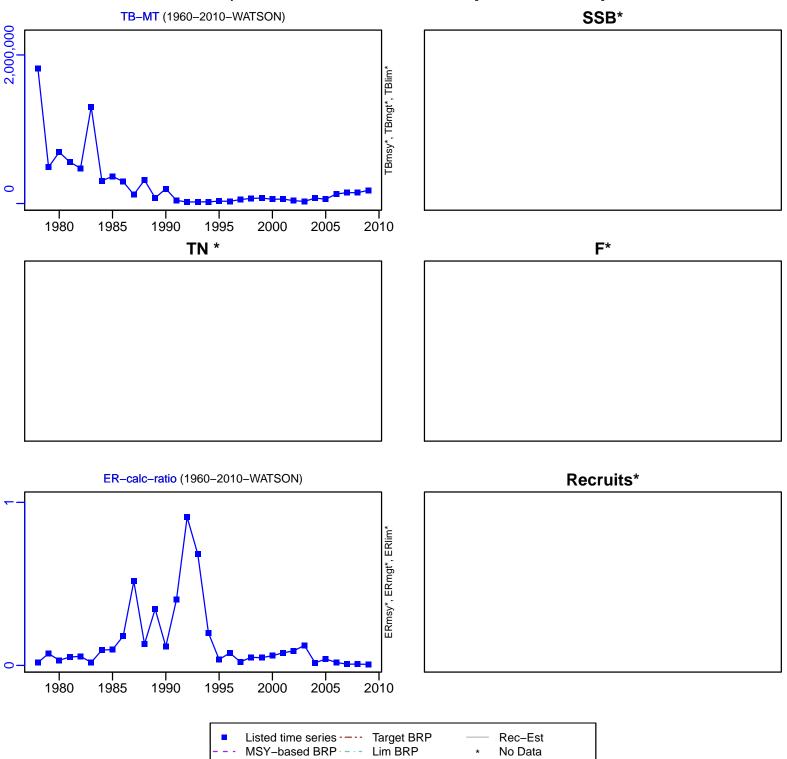
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	22,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.006	-	-
TC	TC-MT	2010	1000		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



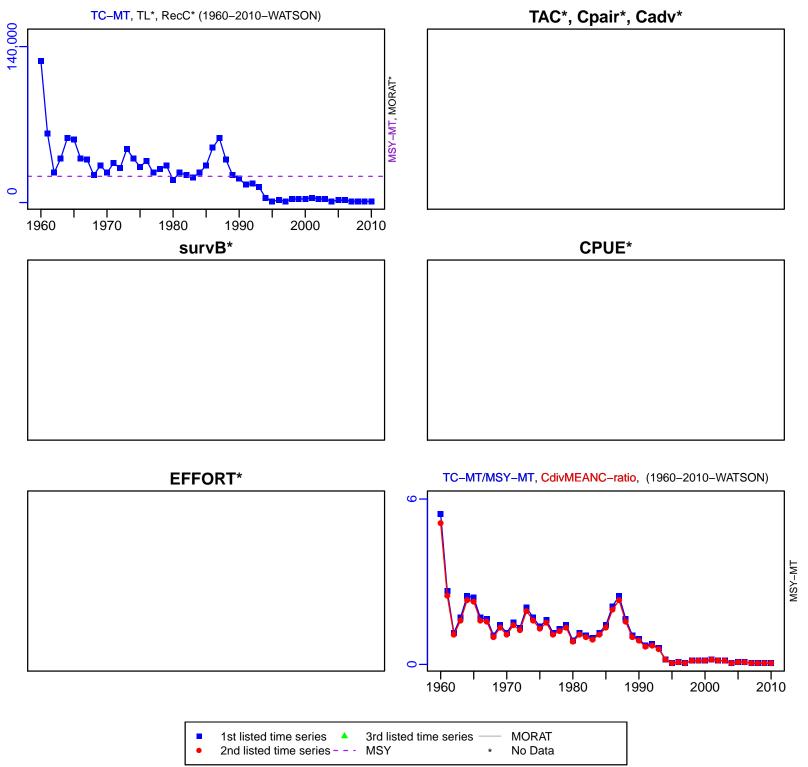
Start Year • End Year * No Data

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



No Data

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

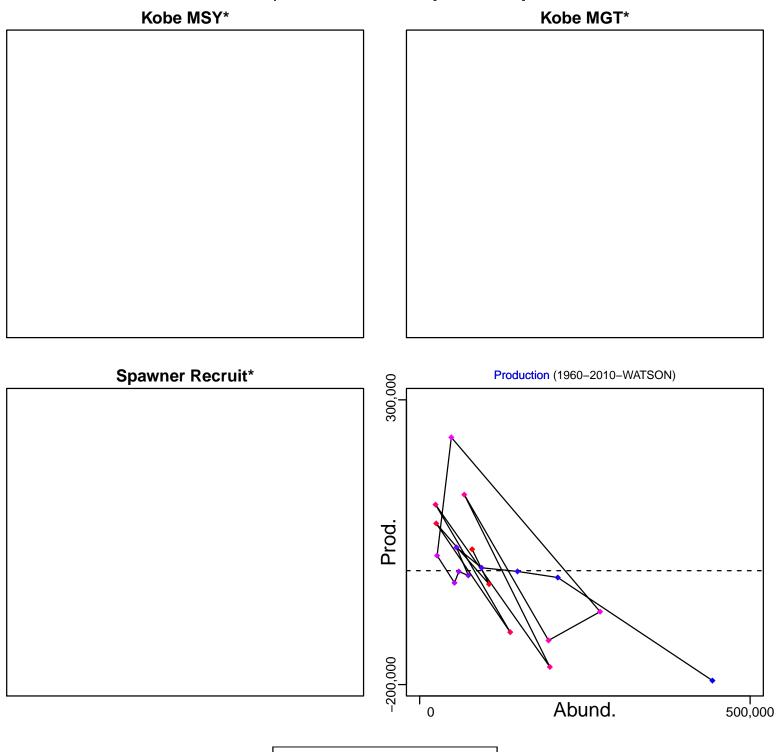


Deepwater redfish Units 1 and 2 [REDDEEPUT12]

Metadata					
Scientific Name	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				

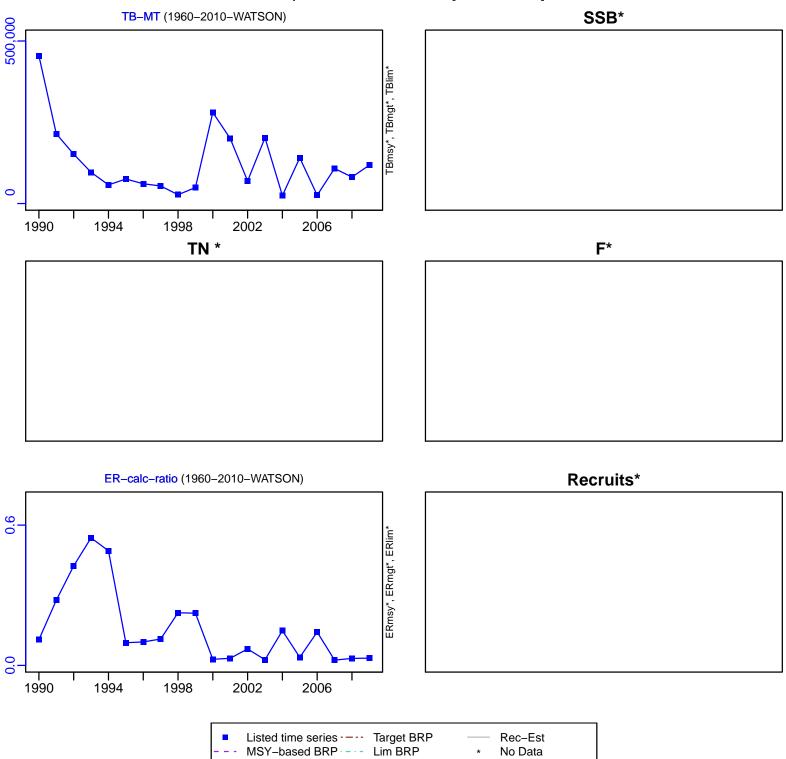
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	21,000	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.026	-	-
TC	TC-MT	2010	3000		
TL	-	-	-]	
TB/TBmsy	-	-	-		
SSB/SSBmsy	1	-	-		
F/Fmsy	1	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



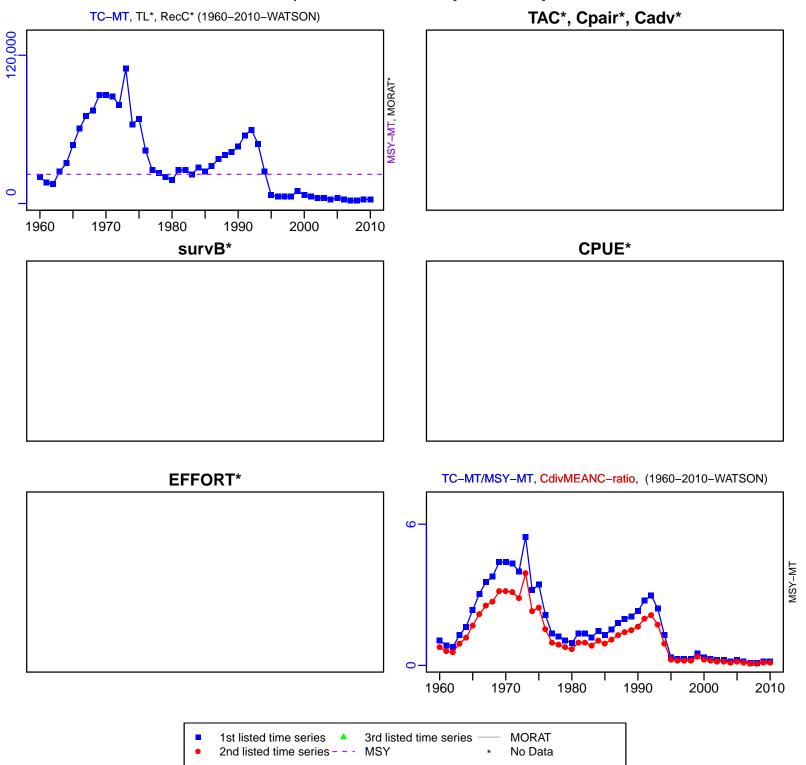
Start Year • End Year * No Data

Deepwater redfish Units 1 and 2 [REDDEEPUT12]



No Data

Deepwater redfish Units 1 and 2 [REDDEEPUT12]



Metadata		
Scientific Name	Sebastes spp	
Current Assess ID	NAFO-SC-REDFISHSPP1-1965-2004-PREFONTAINE	
Area	West Greenland	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2004	

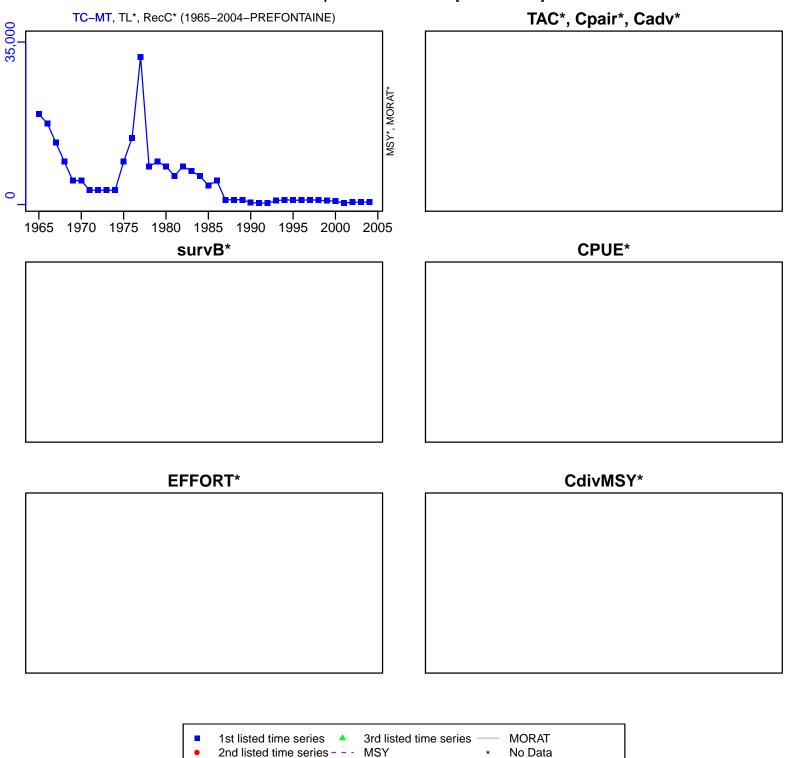
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2004	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

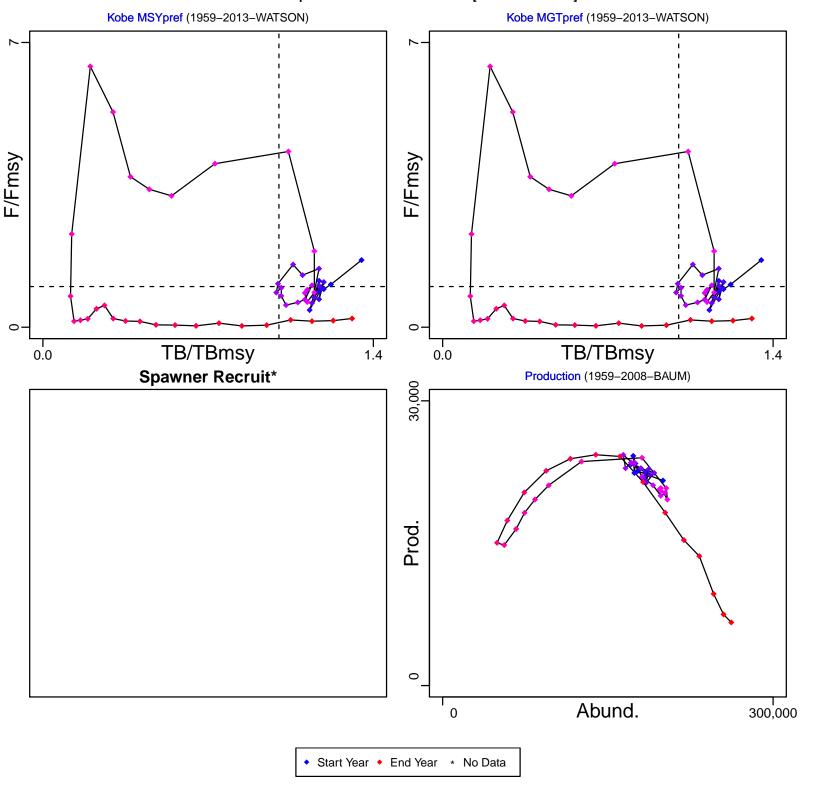
TB*	SSB*
TN *	F *
ER*	Recruits*
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta MSY-based BRP Li	im BRP * No Data

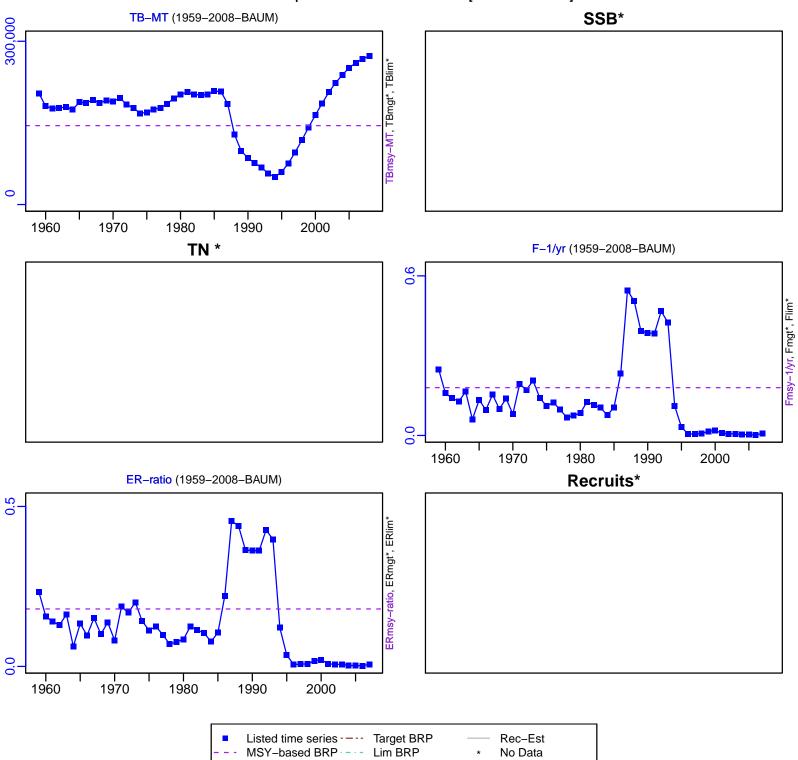


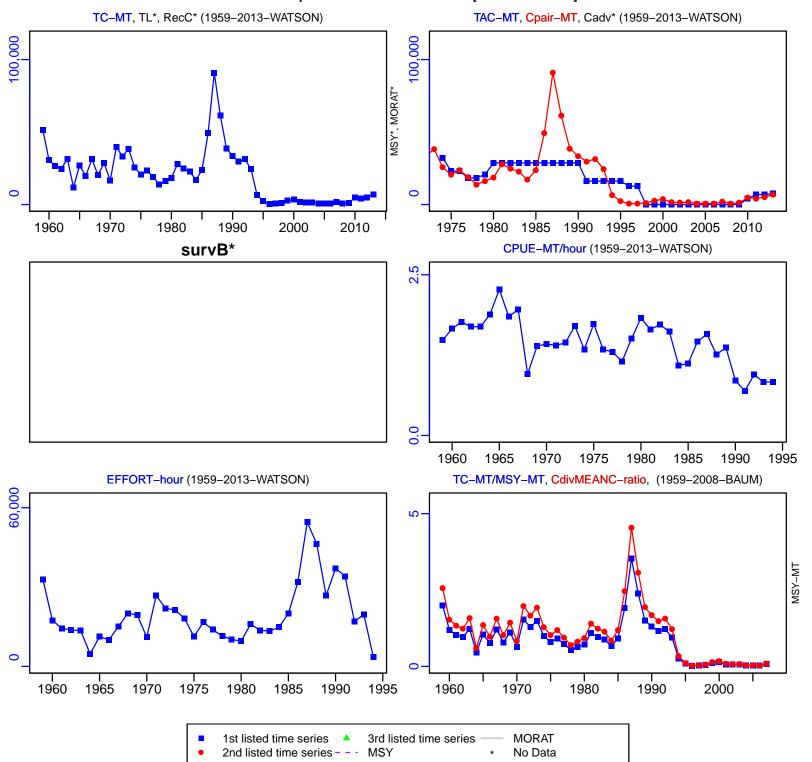
Metadata		
Scientific Name	Sebastes spp	
Current Assess ID	NAFO-SC-REDFISHSPP3LN-1959-2013-WATSON	
Area	N and SW Grand Banks	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2008, 2013	

Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-MT	2008	141,900	
SSBmsy	-	-	-	
Fmsy	Fmsy-1/yr	2008	0.172	
ERmsy	ERmsy-ratio	2008	0.172	
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	0.007	Both	-
ER	ER-ratio	2008	0.006	-	-
TC	TC-MT	2013	6000		
TL	-	-	-		
TB/TBmsy	TBdivTBmsy-dimensionless	2013	1.31		
SSB/SSBmsy	-	-	-		
F/Fmsy	FdivFmsy-dimensionless	2013	0.214		
ER/ERmsy	ER-ratio/ERmsy-ratio	2008	0.037		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		





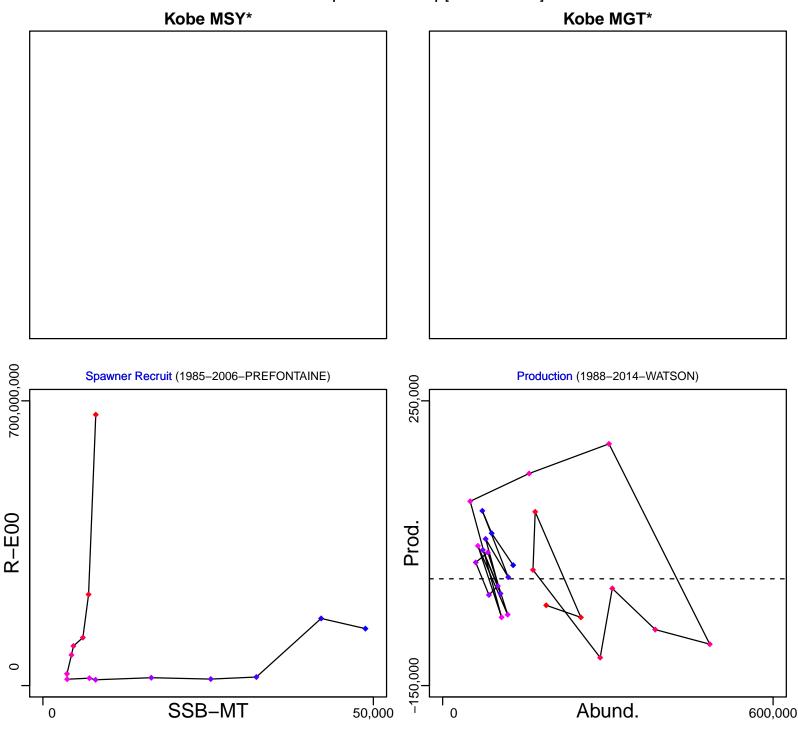


Redfish species Flemish Cap [REDFISHSPP3M]

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

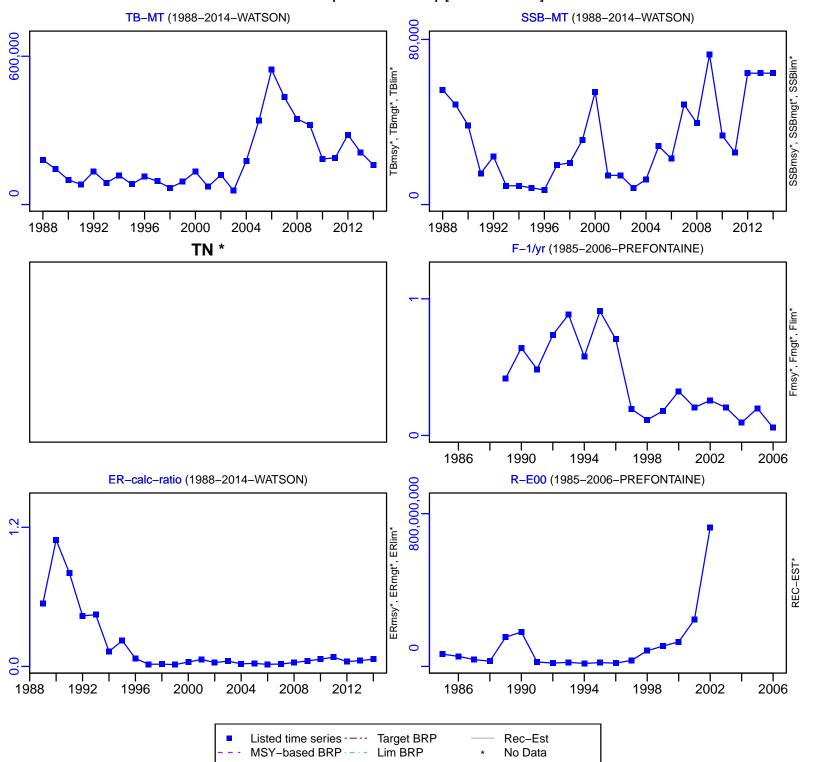
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2006	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
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	6.66×10^{8}	-	4
F	F-1/yr	2006	0.046	-	6 to 16
ER	ER-calc-ratio	2014	0.052	-	-
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	-	-	-		

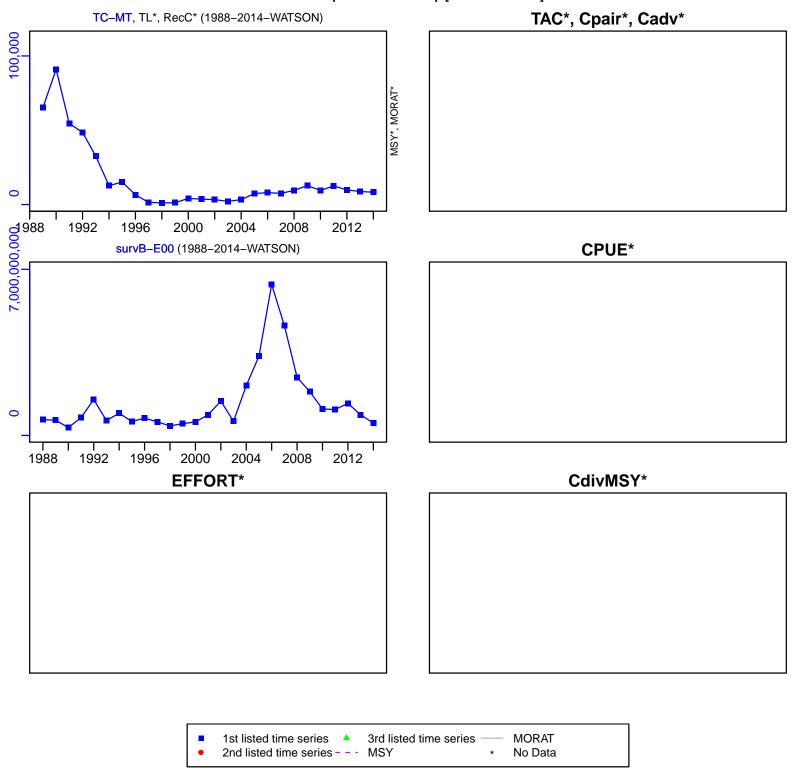


Start Year • End Year • No Data

Redfish species Flemish Cap [REDFISHSPP3M]



Redfish species Flemish Cap [REDFISHSPP3M]



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	

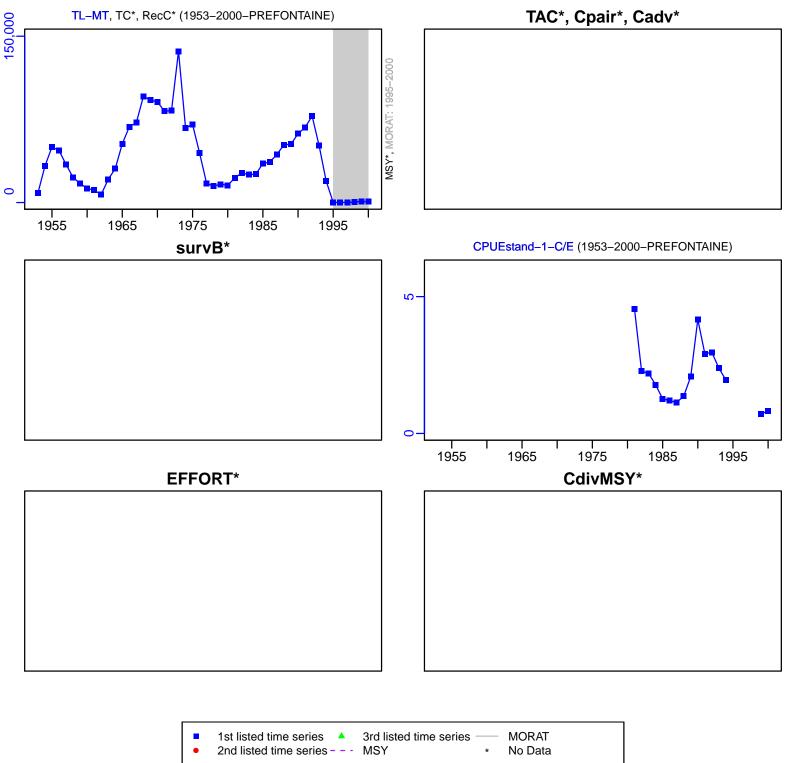
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
M	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2000	764		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*
Spawner Necruit	
Spawner Necruit	Troduction
Spawner Recruit	

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F *
ER*	Recruits*
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Listed time series T MSY-based BRP L	iarget BRP — Rec–Est im 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	-	-	-			

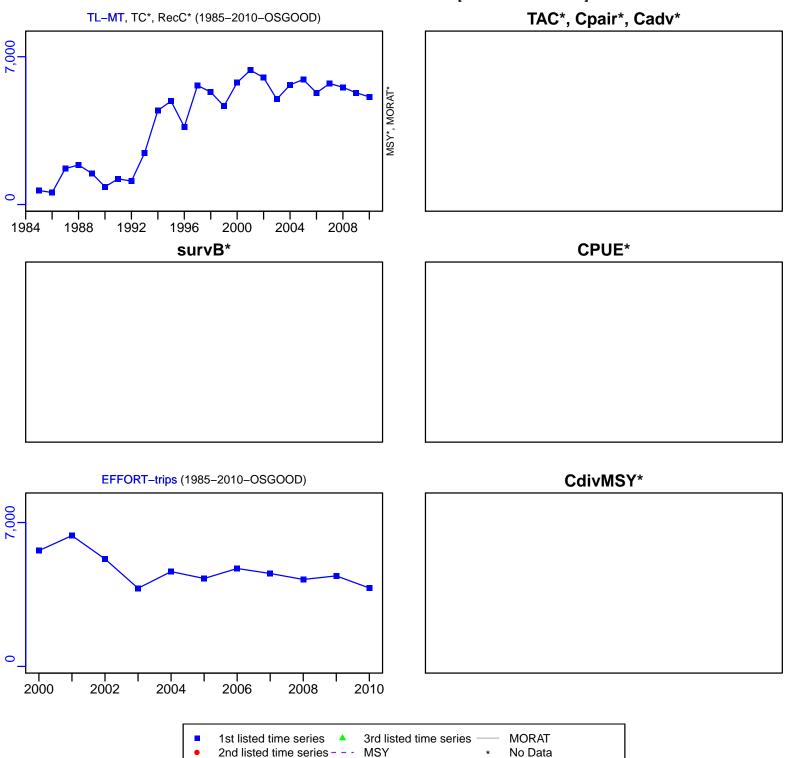
Rock crab Southern Gulf of St. Lawrence [ROCKCRABLFA23-26]

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

◆ Start Year ◆ End Year * No Data

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

TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im 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			

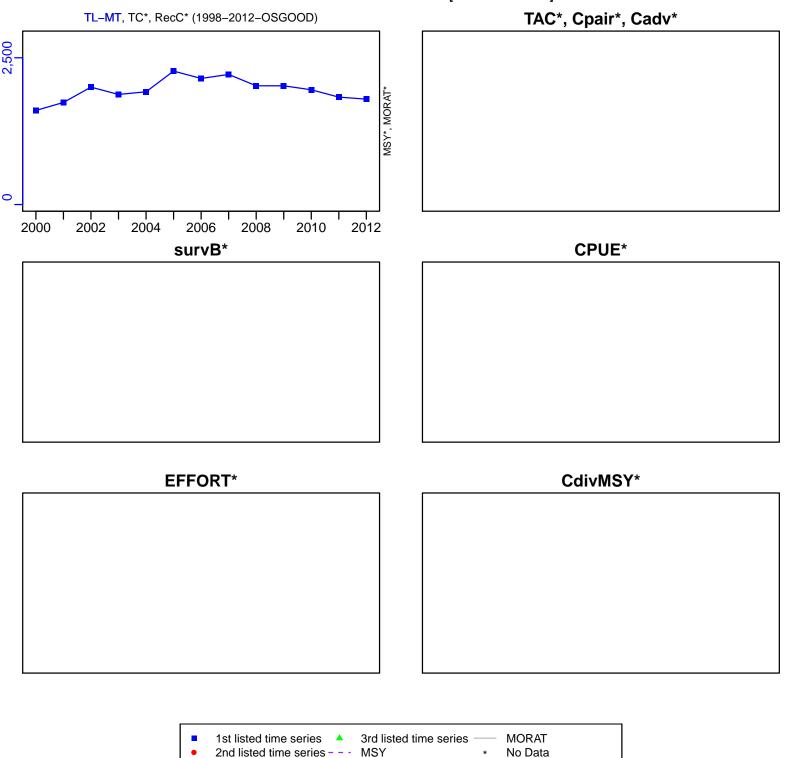
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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 MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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



Metadata		
Scientific Name	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	

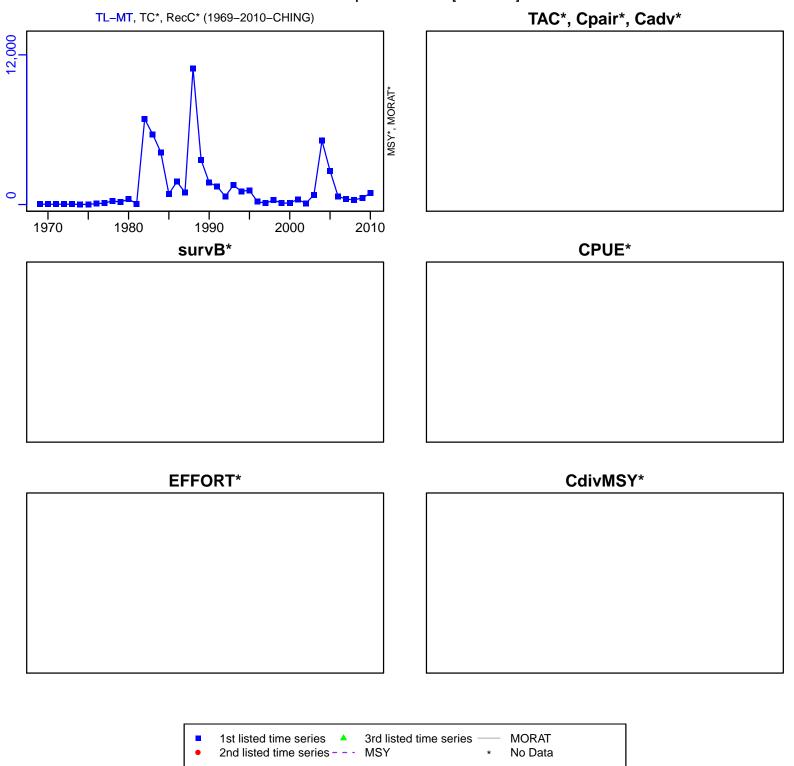
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	813		
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*
Listed time series Ta	arget BRP — Rec-Est m BRP * No Data



Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

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	-	-	-
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	91		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

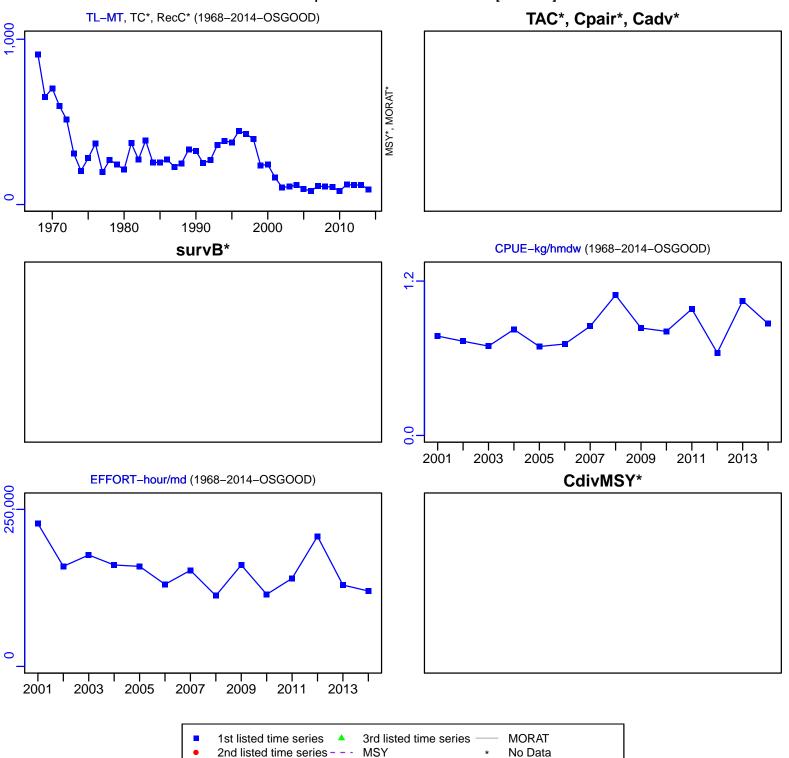
Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Sea scallop Southern Gulf of St. Lawrence [SCALL4T]

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

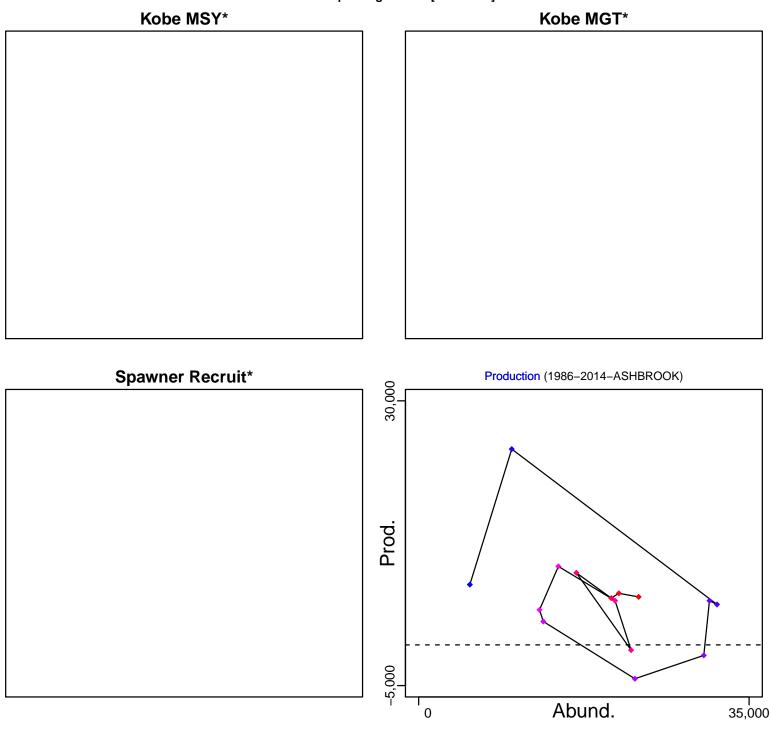


Sea scallop Georges Bank [SCALLGB]

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 managemen			
Assessor	Department of Fisheries and Oceans			
Asmts in RAM	2012, 2007, 2014			

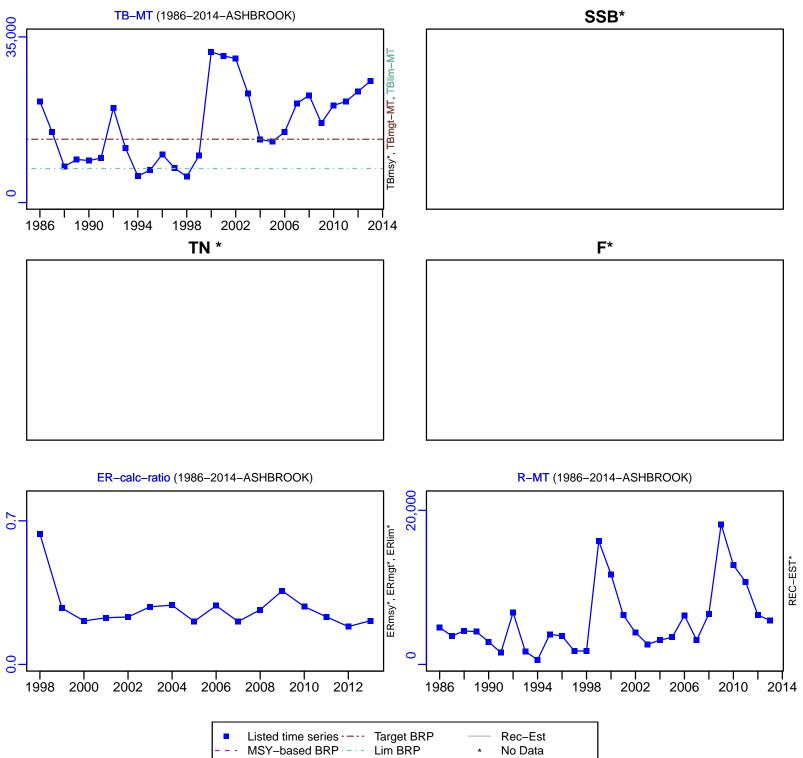
Reference Points						
Туре	ID	Asmt Year	Value			
TBmsy	-	-	-			
SSBmsy	-	-	-			
Fmsy	-	-	-			
ERmsy	-	-	-			
TBmgt	TBmgt-MT	2014	13,284			
SSBmgt	-	-	-			
Fmgt	-	-	-			
ERmgt	-	-	-			
TB0	-	-	-			
SSB0	-	-	-			
MSY	-	-	-			
M	M-1/yr	2014	0.159			
TBlim	TBlim-MT	2014	7137			
SSBlim	-	-	-			
Flim	-	-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

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

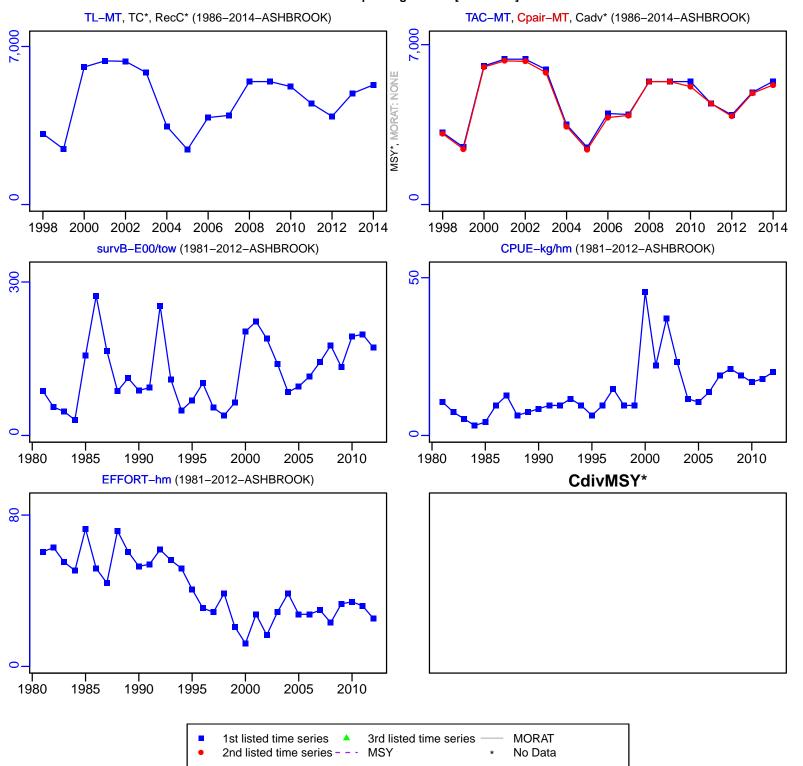


Start Year → End Year → No Data

Sea scallop Georges Bank [SCALLGB]



Sea scallop Georges Bank [SCALLGB]



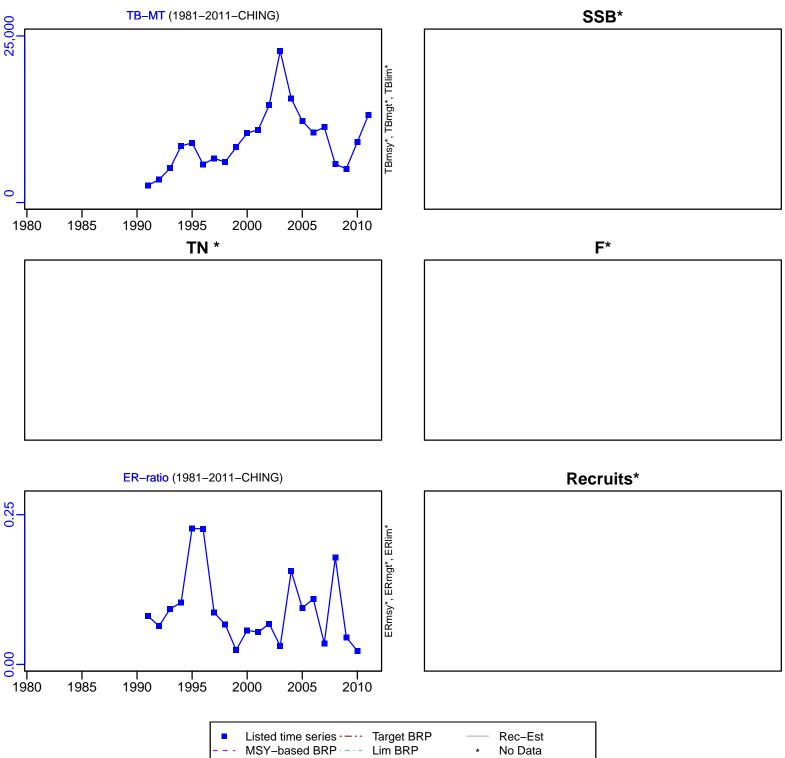
Metadata				
Scientific Name	Placopecten magellanicus			
Current Assess ID	DFO-MAR-SCALLNBB-1981-2011-CHING			
Area	North Brown Bank			
Management Authority	Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans - Maritimes Region			
Asmts in RAM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

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

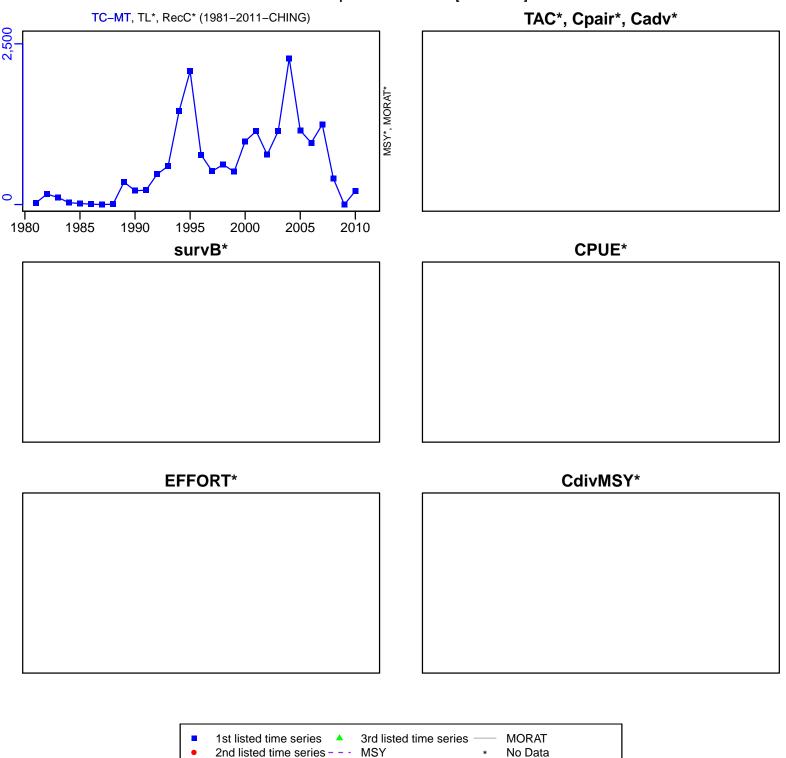
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2011	13,100	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2011	0.02	-	-
TC	TC-MT	2011	201		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	•	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



No Data



Sea scallop Scallop Fishing Areas 16-20 [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	-	-	-		
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	69		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

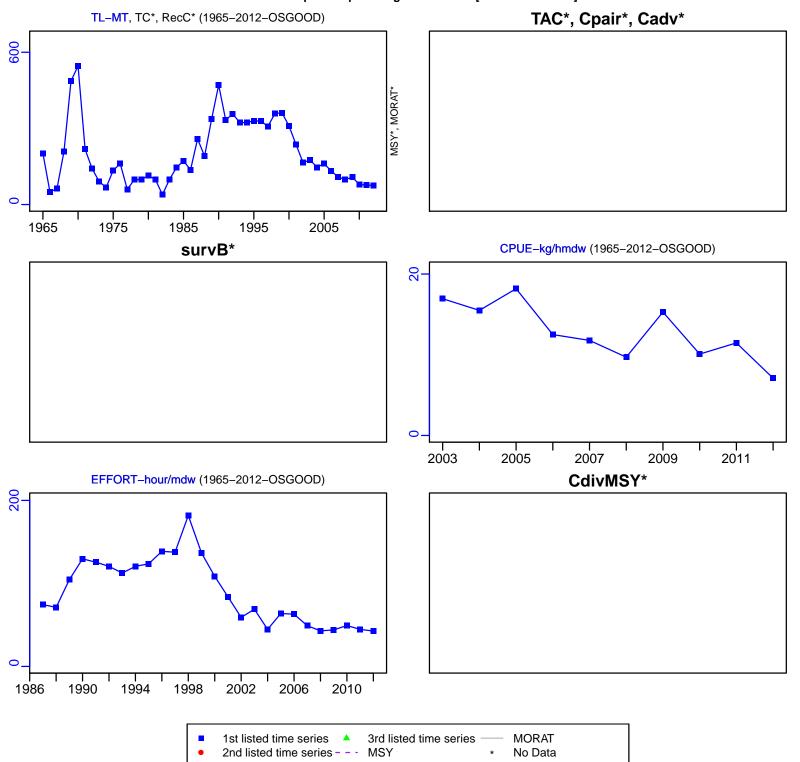
Sea scallop Scallop Fishing Areas 16–20 [SCALLSFA16–20]

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

Lim BRP

No Data

MSY-based BRP - - - -



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

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

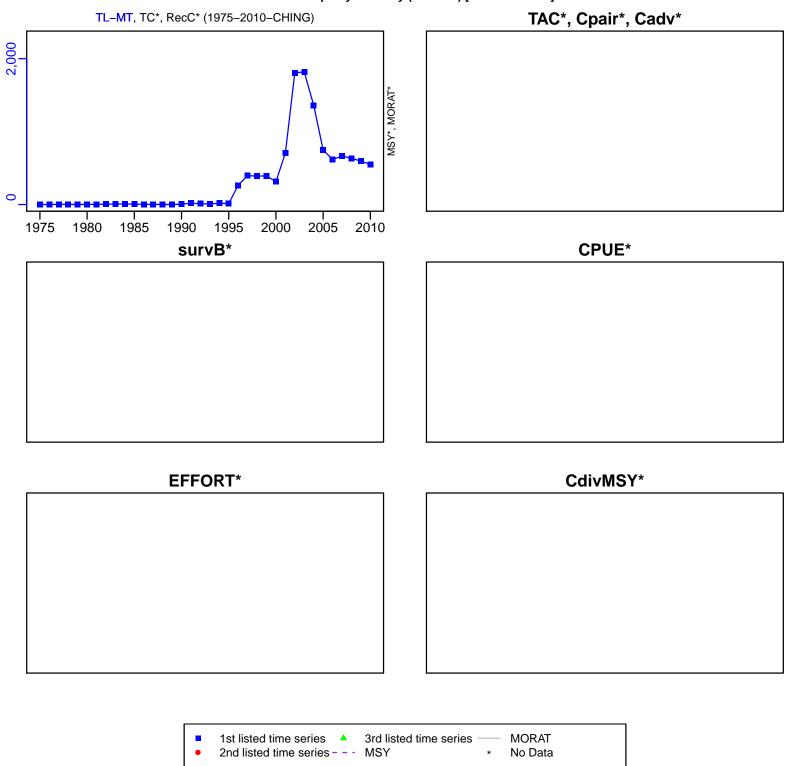
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2010	481		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
III	<u> </u>
ER*	Recruits*
■ Listed time series Ta	erget BRP — Rec-Est
Listed time series Ta	m BRP * No Data

MSY-based BRP - - - -



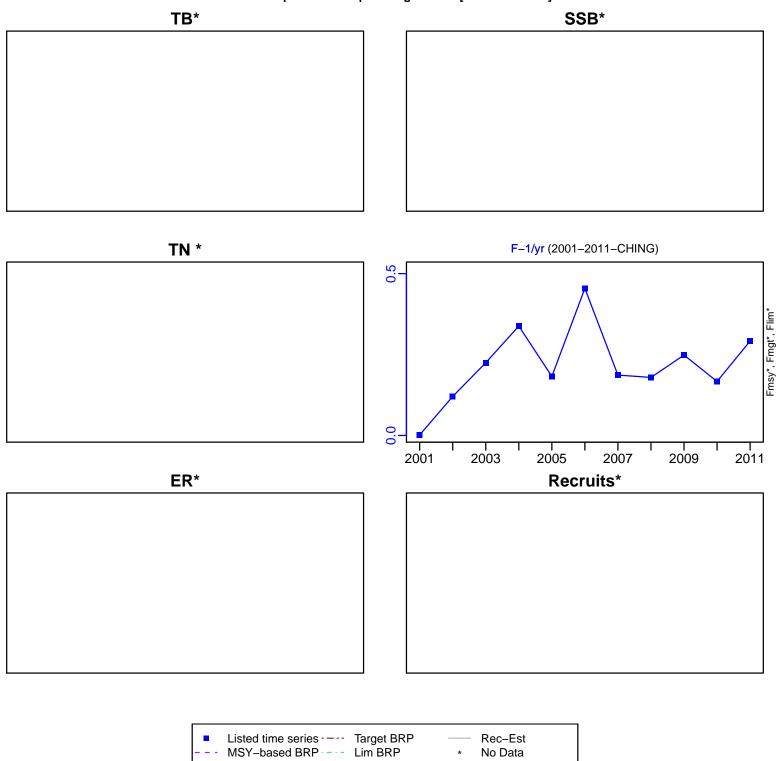
Metadata		
Scientific Name	Placopecten magellanicus	
Current Assess ID	DFO-MAR-SCALLWSFA29-2001-2011-CHING	
Area	West Scallop Fishing Area 29	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in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

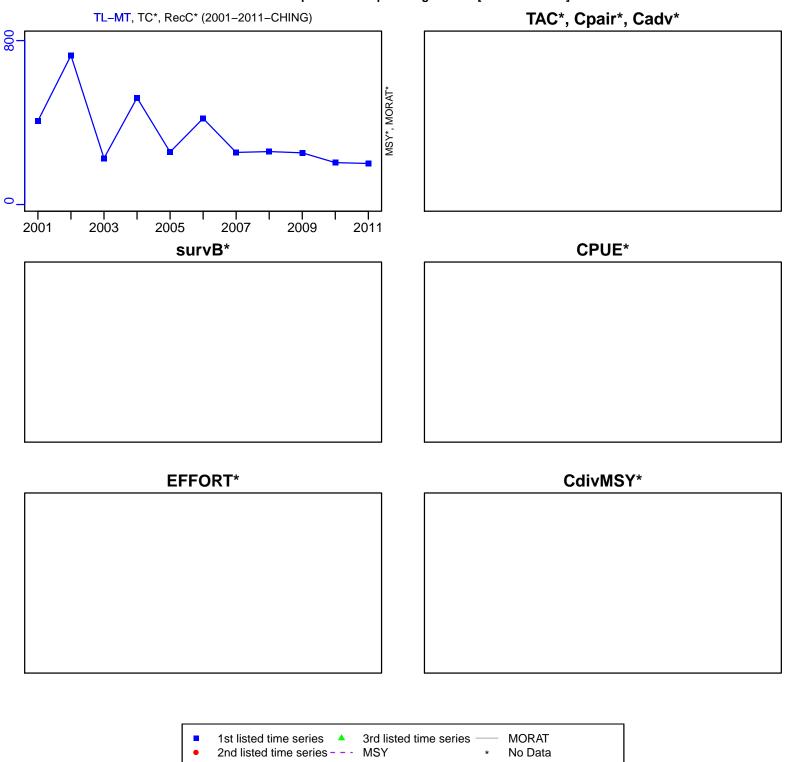
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ 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	

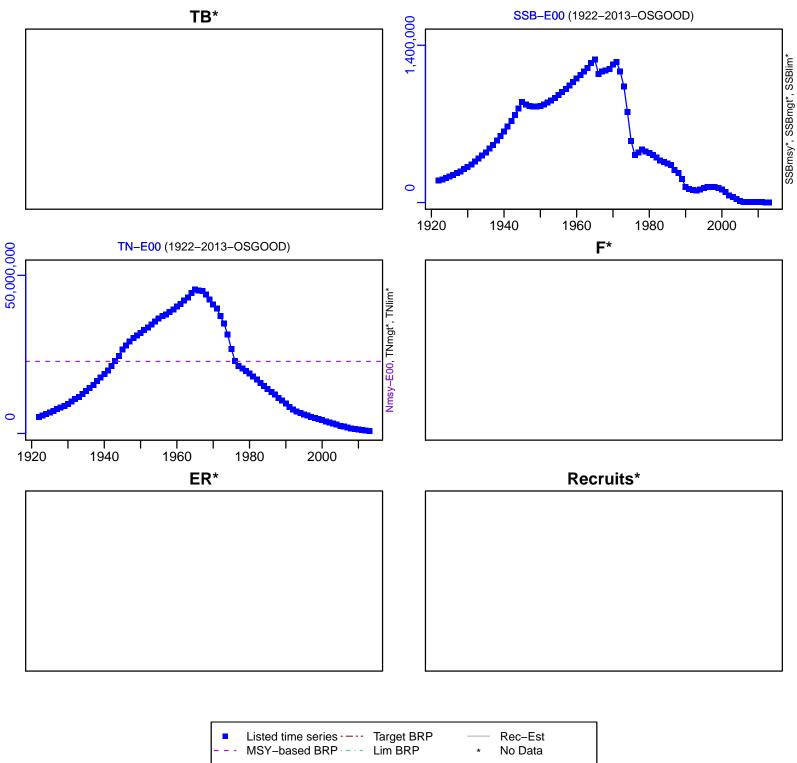
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2013	742	
М	M-1/yr	2013	0.1	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	-	-	-		

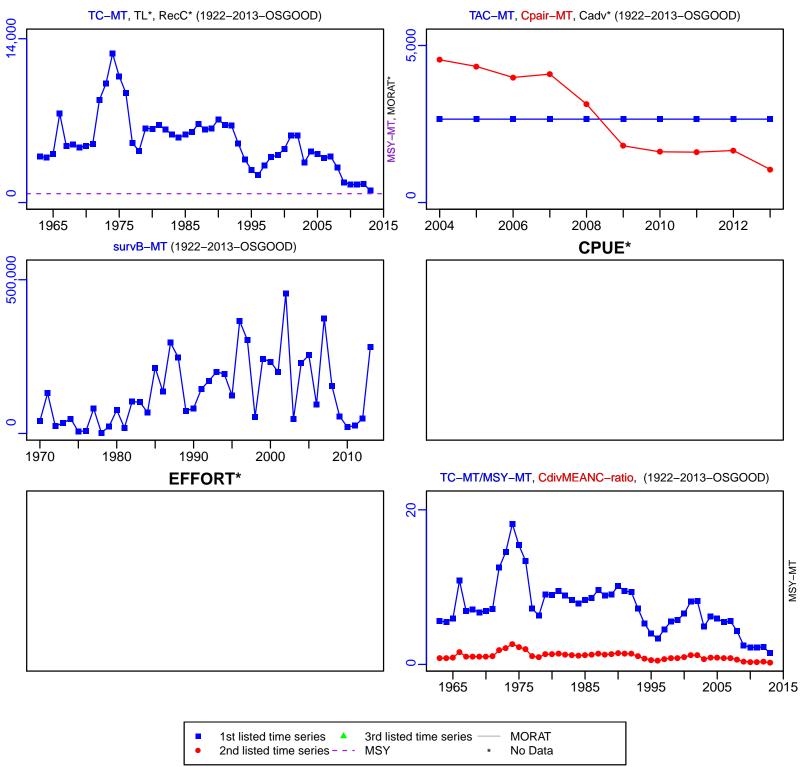
Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]

Kobe MSY*	Kobe MGT*
	— • • • • • • • • • • • • • • • • • • •
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



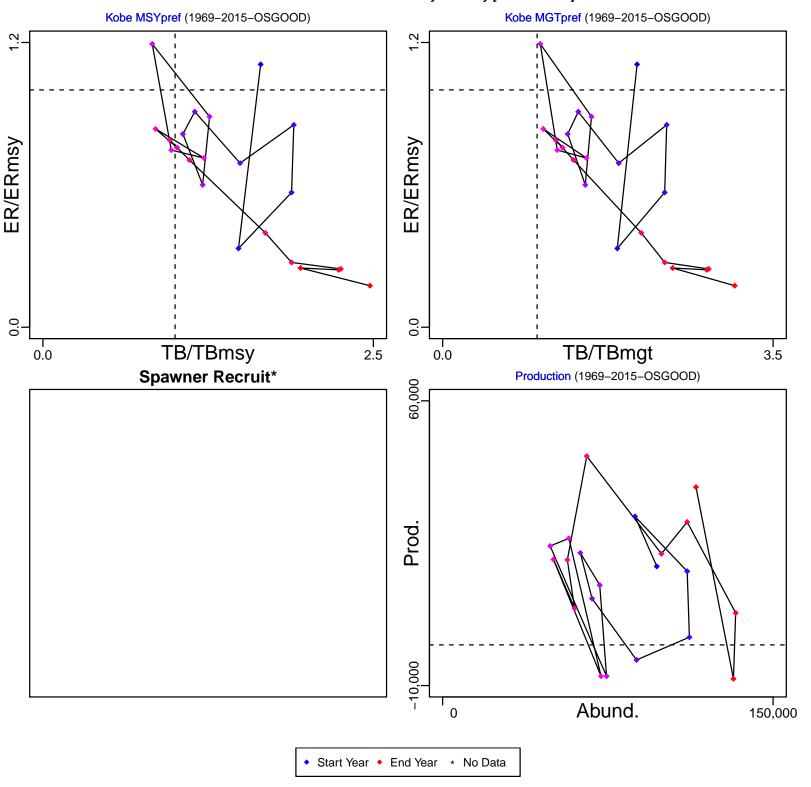
Spiny dogfish Scotian Shelf, Bay of Fundy and Georges Bank [SDOG4VWX5]

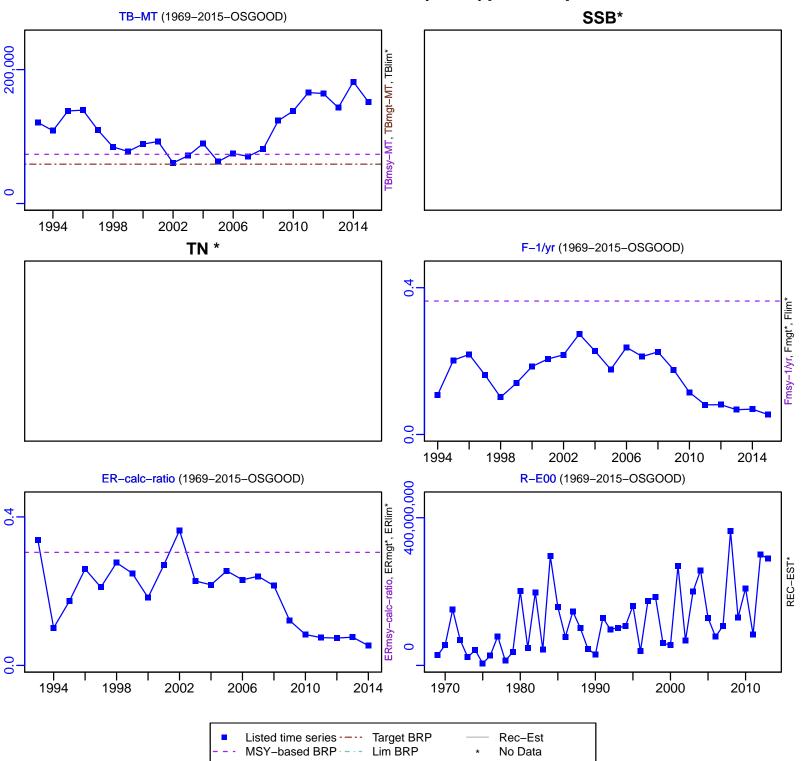


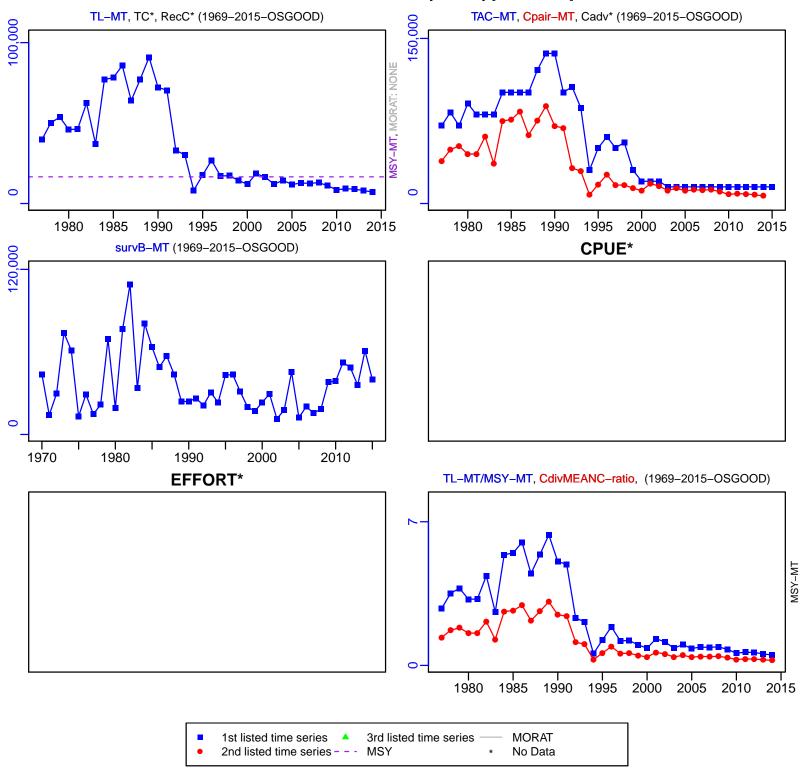
Metadata		
Scientific Name	Merluccius bilinearis	
Current Assess ID	DFO-MAR-SHAKE4VWX-1969-2015-OSGOOD	
Area	Scotian Shelf and Bay of Fundy	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Maritimes Region	
Asmts in RAM	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	0.271
TBmgt	TBmgt-MT	2015	47,200
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	16,000
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2015	122,000	Both	0+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	2.56×10^{8}	Both	-
F	F-1/yr	2015	0.048	-	-
ER	ER-calc-ratio	2015	0.047	-	-
TC	-	-	-		
TL	TL-MT	2015	6930		
TB/TBmsy	TB-MT/TBmsy-MT	2015	2.068		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	0.149		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.175		
TB/TBmgt	TB-MT/TBmgt-MT	2015	2.585		
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	

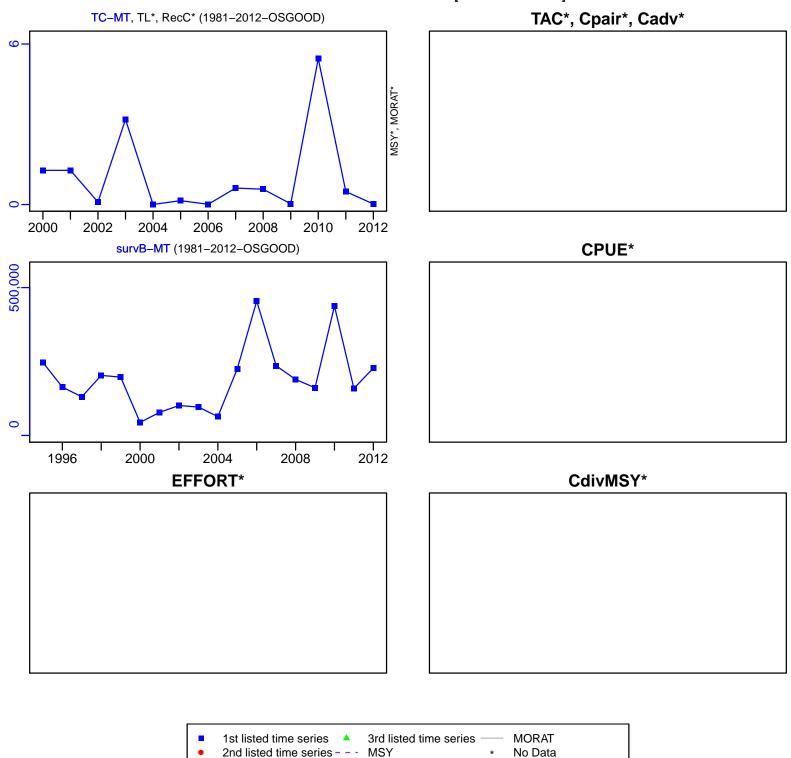
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2012	0.021		
TL	-	-	-		
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

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

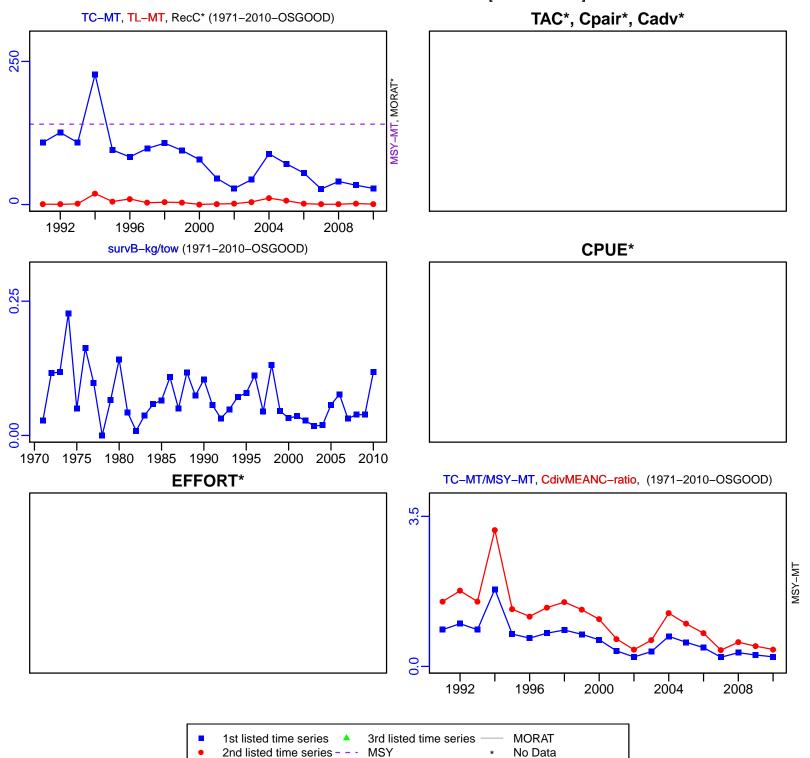
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2010	120	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2010	24		
TL	TL-MT	2010	0.56		
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



Snow crab Division 2HJ [SNOWCRAB2HJ]

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	

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

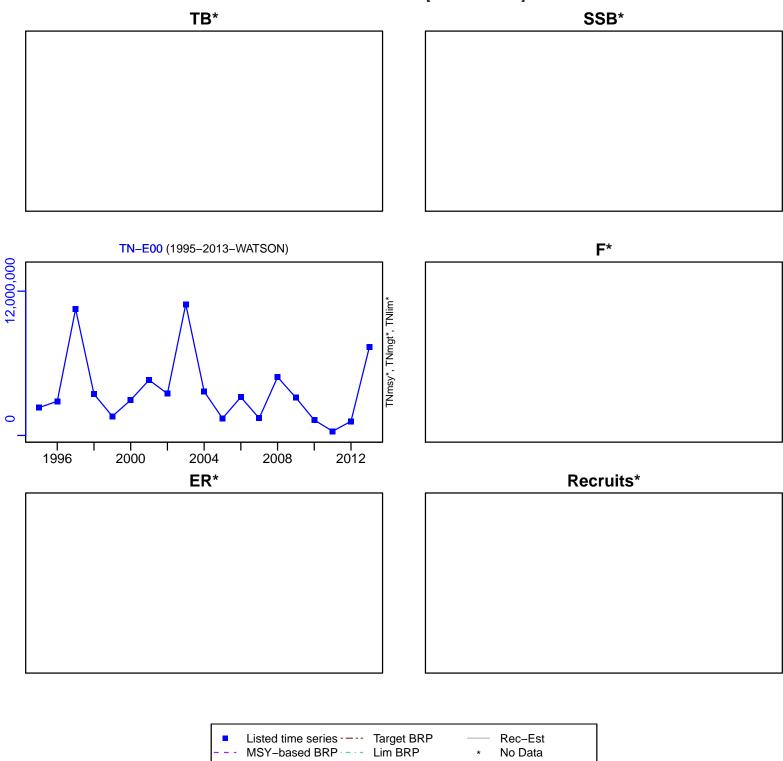
Time Series								
Туре	ID	Asmt Year	Curr Value	Sex	Age			
ТВ	-	-	-	-	-			
SSB	-	-	-	-	-			
TN	TN-E00	2013	6,350,000	-	-			
R	-	-	-	-	-			
F	-	-	-	-	-			
ER	-	-	-	-	-			
TC	-	-	-					
TL	TL-MT	2013	1380					
TB/TBmsy	-	-	-					
SSB/SSBmsy	-	-	-					
F/Fmsy	-	-	-					
ER/ERmsy	-	-	-					
TB/TBmgt	-	-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

Snow crab Division 2HJ [SNOWCRAB2HJ]

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

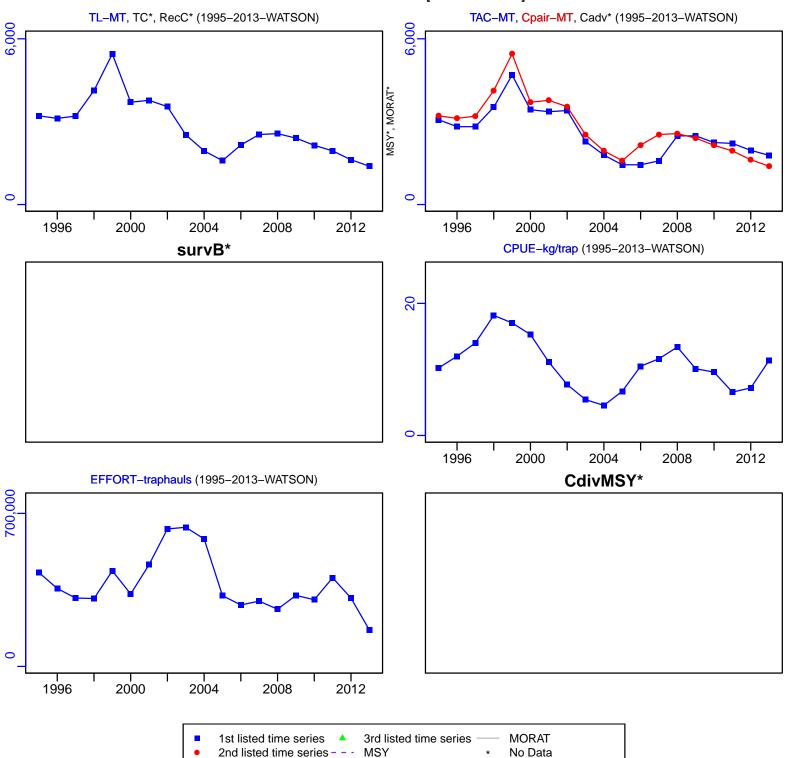
◆ Start Year ◆ End Year * No Data

Snow crab Division 2HJ [SNOWCRAB2HJ]



No Data

Snow crab Division 2HJ [SNOWCRAB2HJ]

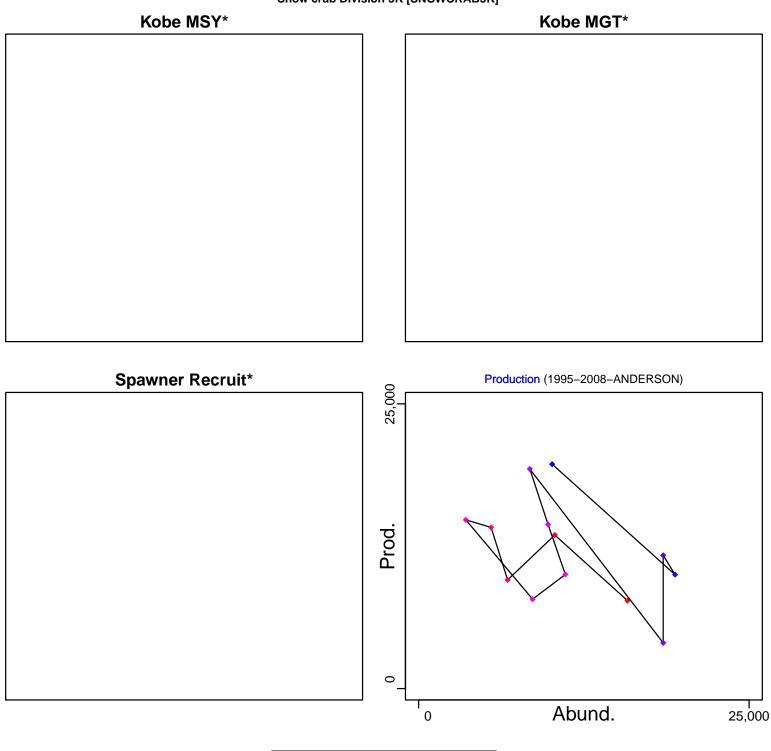


Snow crab Division 3K [SNOWCRAB3K]

	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

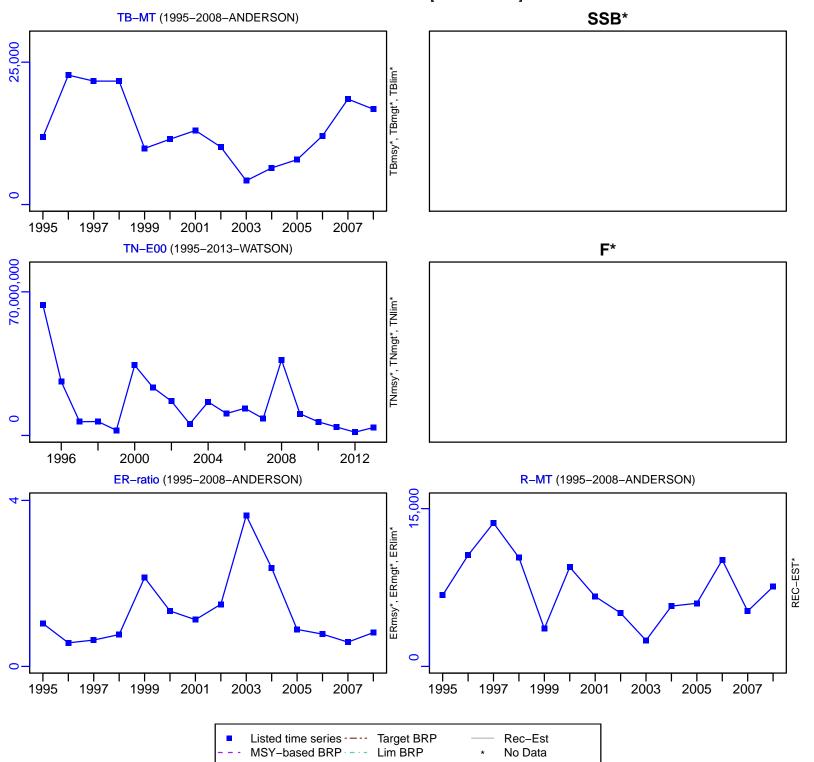
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	TB-MT	2008	14,300	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	3,310,000	-	-
R	R-MT	2008	7170	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0.811	-	-
TC	-	-	-		1
TL	TL-MT	2013	8520		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

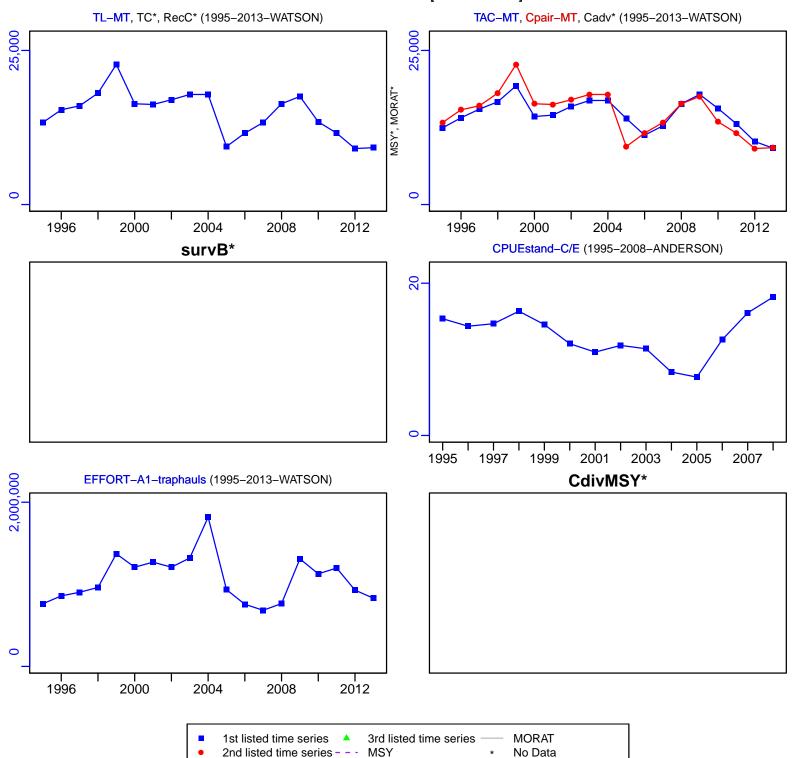


Start Year ◆ End Year * No Data

Snow crab Division 3K [SNOWCRAB3K]



Snow crab Division 3K [SNOWCRAB3K]



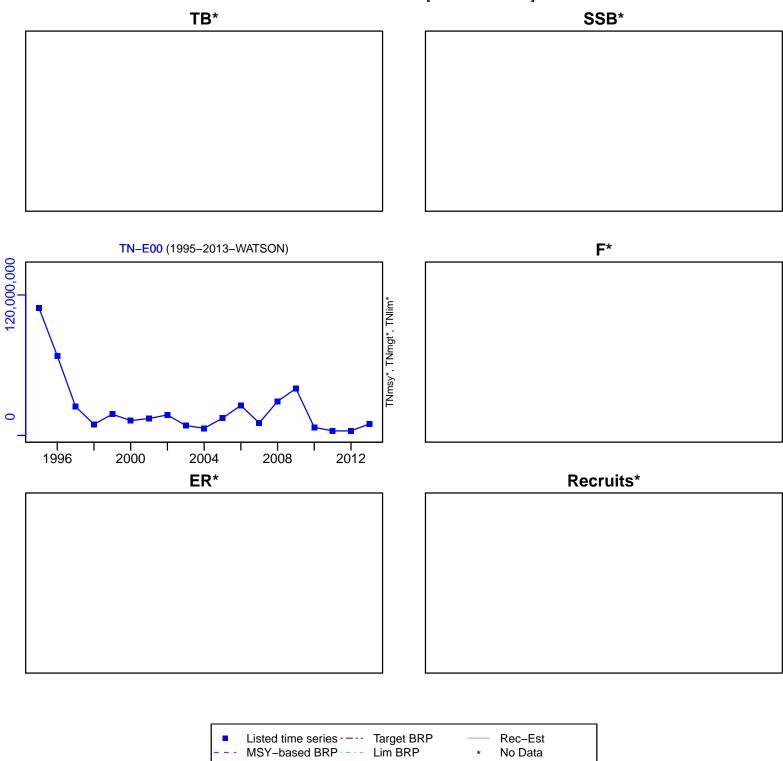
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	DFO-SNOWCRAB3LNO-1995-2013-WATSON
Area	Division 3LNO
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2013

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

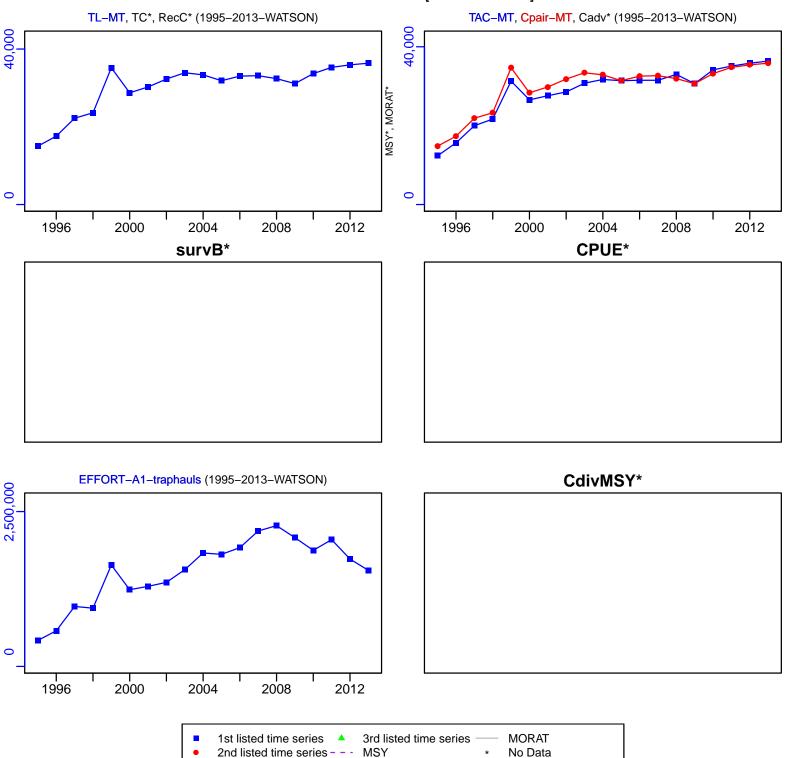
		Time Series			
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	8,270,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	33,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data



No Data



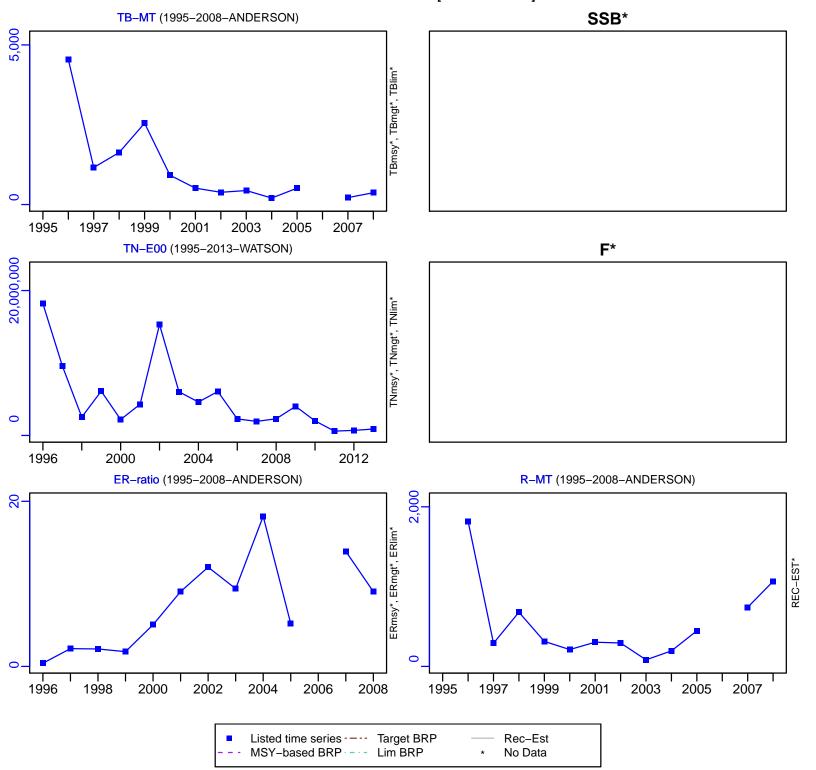
	Metadata
Scientific Name	Chionoecetes opilio
Current Assess ID	DFO-SNOWCRAB3Ps-1995-2013-WATSON
Area	St. Pierre Bank
Management Authority	Department of Fisheries and Oceans, Canada national management
Assessor	Department of Fisheries and Oceans
Asmts in RAM	2008, 2013

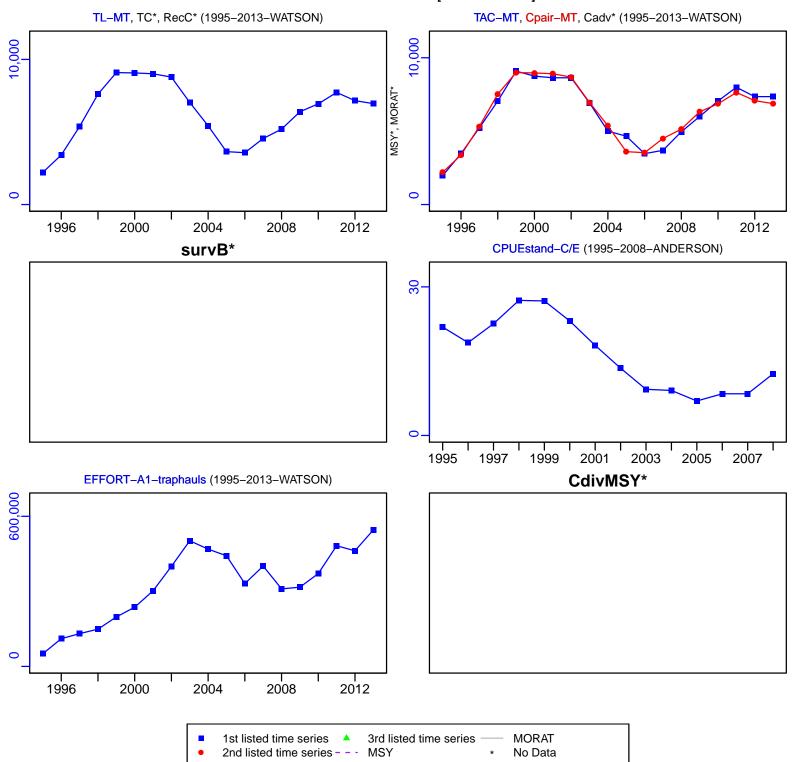
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

		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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data





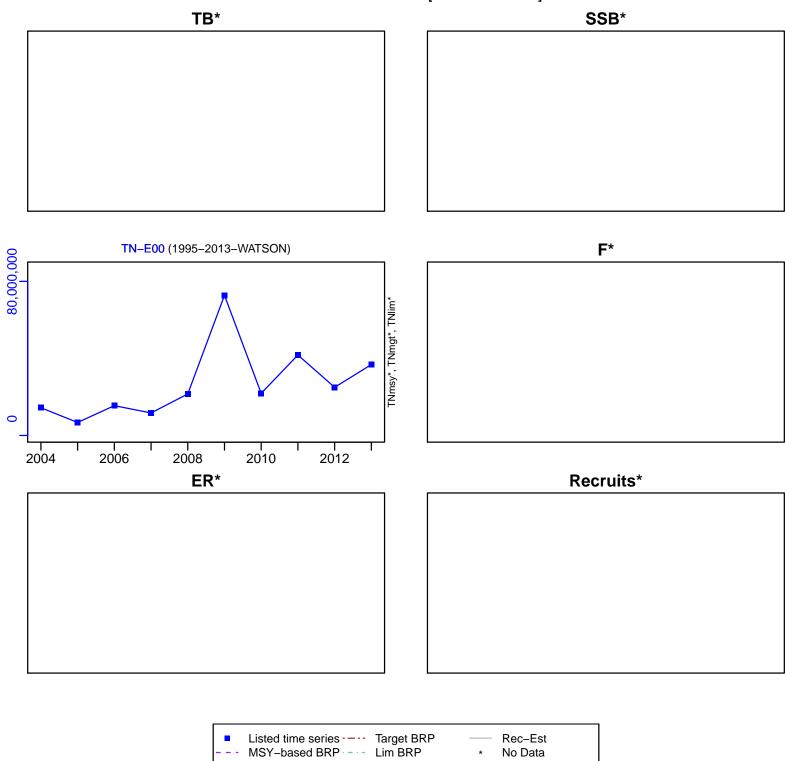
Metadata			
Scientific Name	Chionoecetes opilio		
Current Assess ID	DFO-SNOWCRAB4R3Pn-1995-2013-WATSON		
Area	Division 4R3Pn		
Management Authority	Department of Fisheries and Oceans, Canada national management		
Assessor	Department of Fisheries and Oceans		
Asmts in RAM	2013		

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

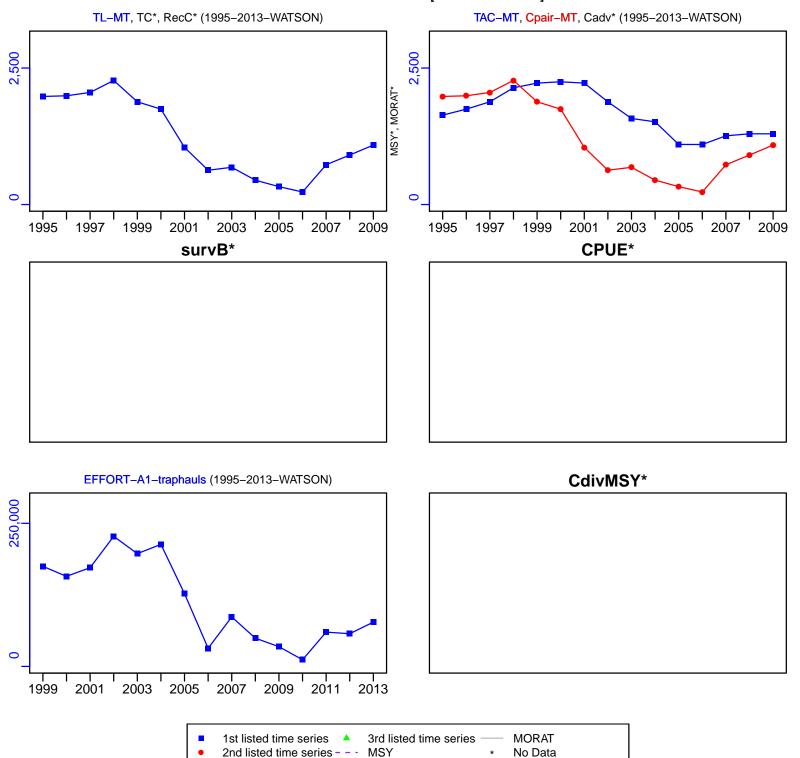
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2013	3.4×10^{7}	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2013	891		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt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

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

◆ Start Year ◆ End Year * No Data



No Data



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		

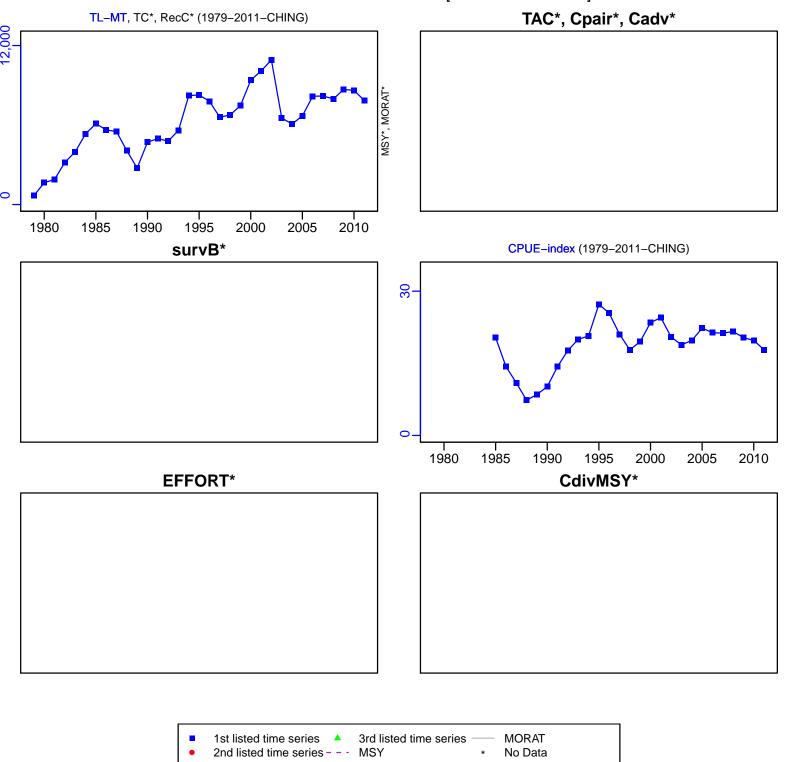
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	-	-	-		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	-	-	-		

Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

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

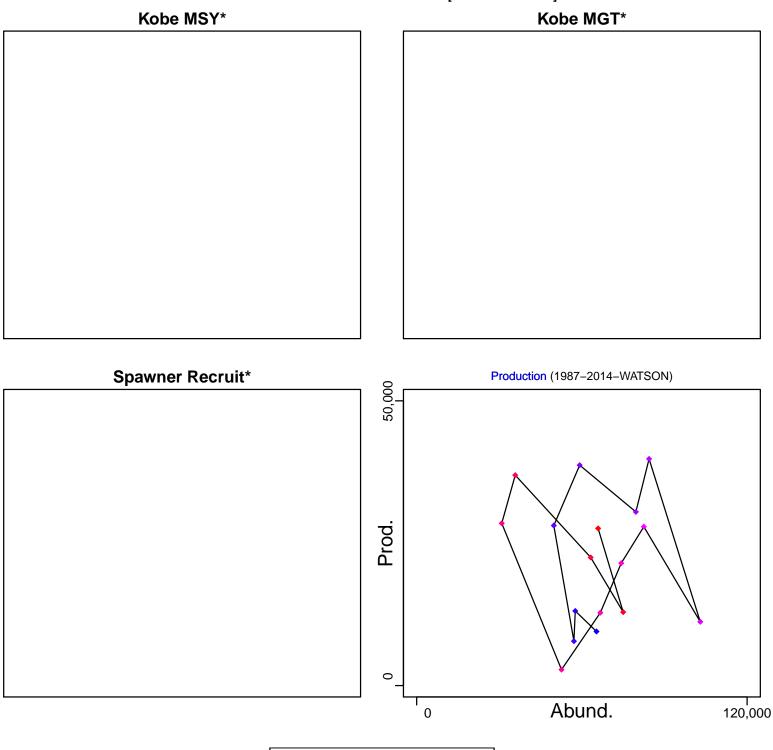


Snow crab Southern Gulf of St. Lawrence [SNOWCRABSGSL]

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		

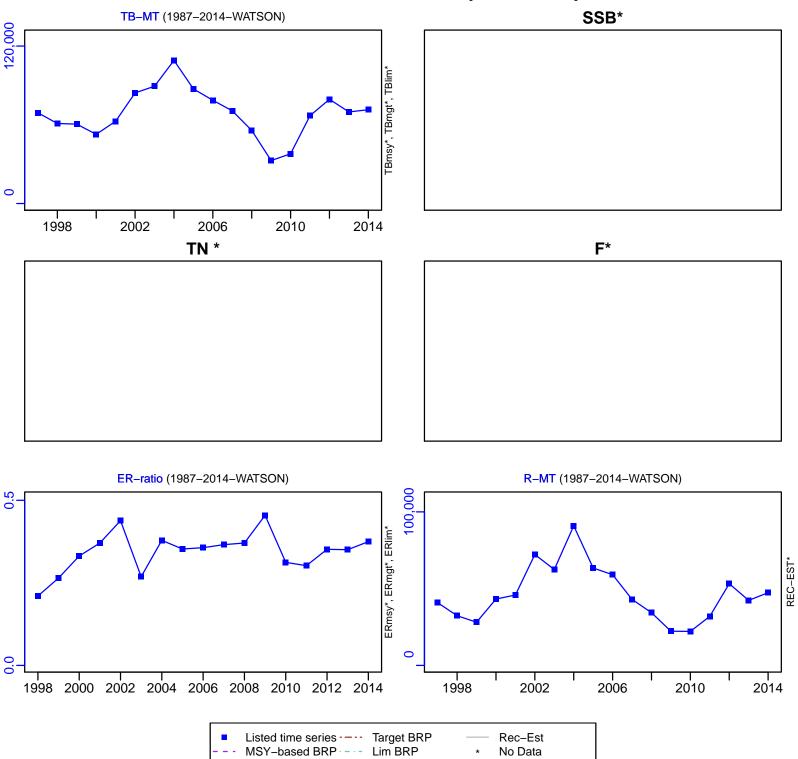
Reference Points					
Туре	ID	Asmt Year	Value		
TBmsy	-	-	-		
SSBmsy	-	-	-		
Fmsy	-	-	-		
ERmsy	-	-	-		
TBmgt	-	-	-		
SSBmgt	-	-	-		
Fmgt	-	-	-		
ERmgt	-	-	-		
TB0	-	-	-		
SSB0	-	-	-		
MSY	-	-	-		
М	M-1/yr	2007	0.38		
TBlim	-	-	-		
SSBlim	-	-	-		
Flim	-	-	-		
ERlim	-	-	-		

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	0.371	-	-
TC	-	-	-		
TL	TL-MT	2014	24,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



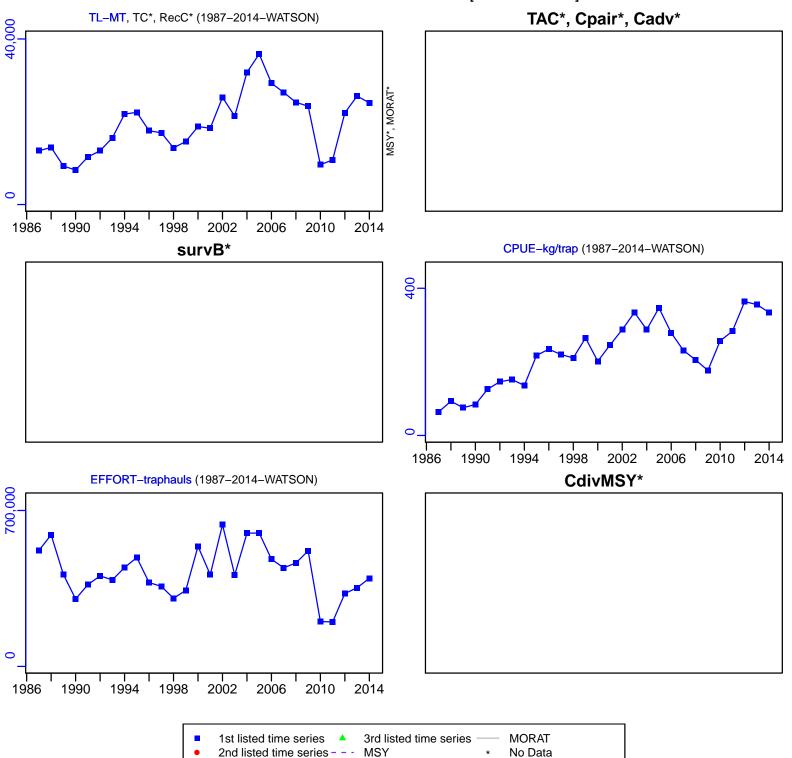
Start Year → End Year → No Data

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	

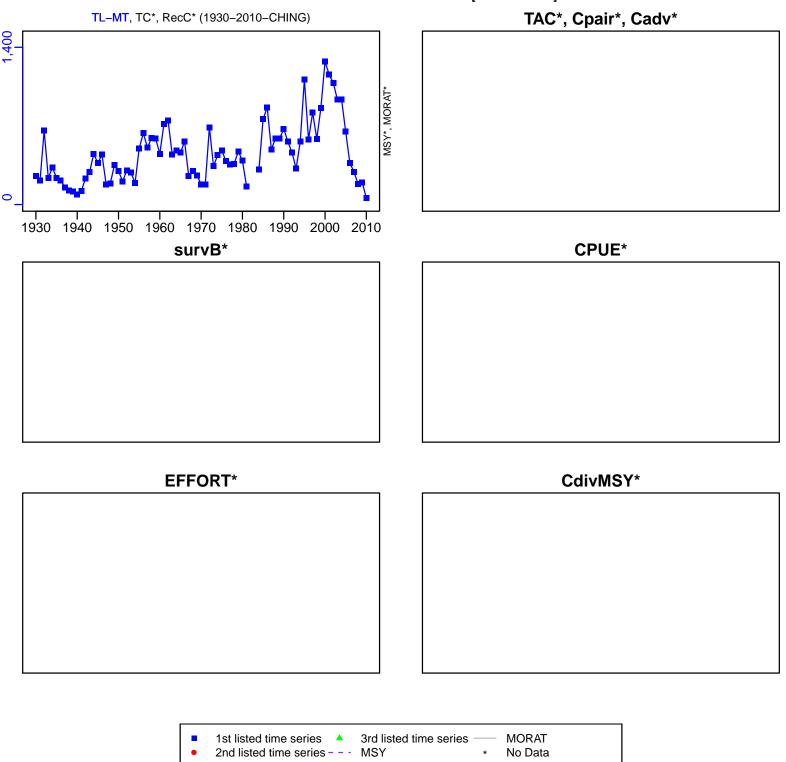
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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*

◆ Start Year ◆ End Year * No Data

TB*	SSB*
TN *	F*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec-Est
MSY-based BRP Li	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]

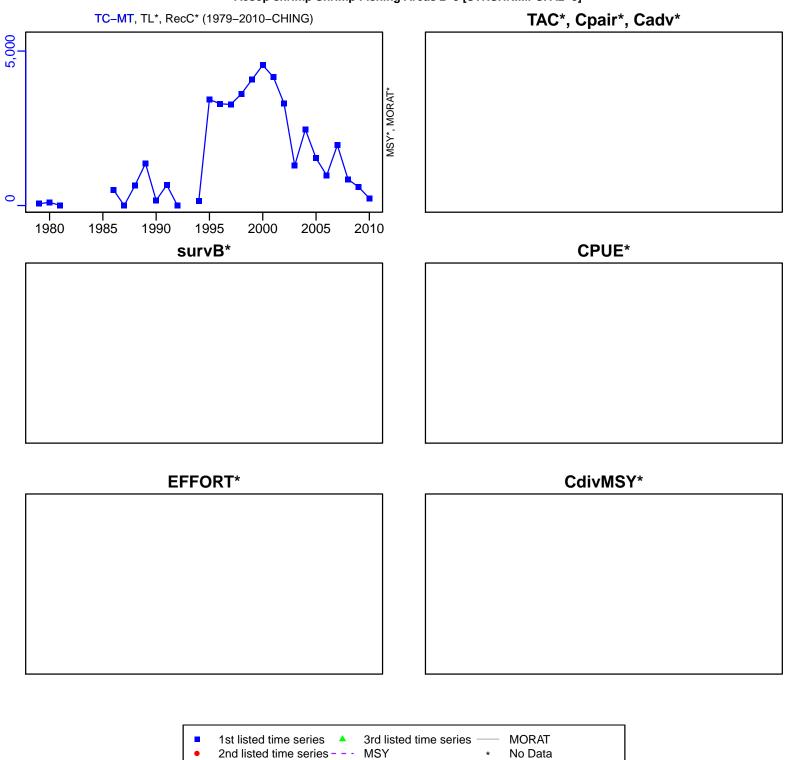
Kobe MGT*
Production*

◆ Start Year ◆ End Year * No Data

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

TB*	SSB*
TN *	F*
ED*	D. a. w.ita*
ER*	Recruits*
Listed time series Ta	arget BRP — Rec–Est m BRP * No Data
	III DINI " NO Dala

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



Thorny skate Grand Bank and St Pierre Bank [TSKA3LNOPs]

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	-	-	-	

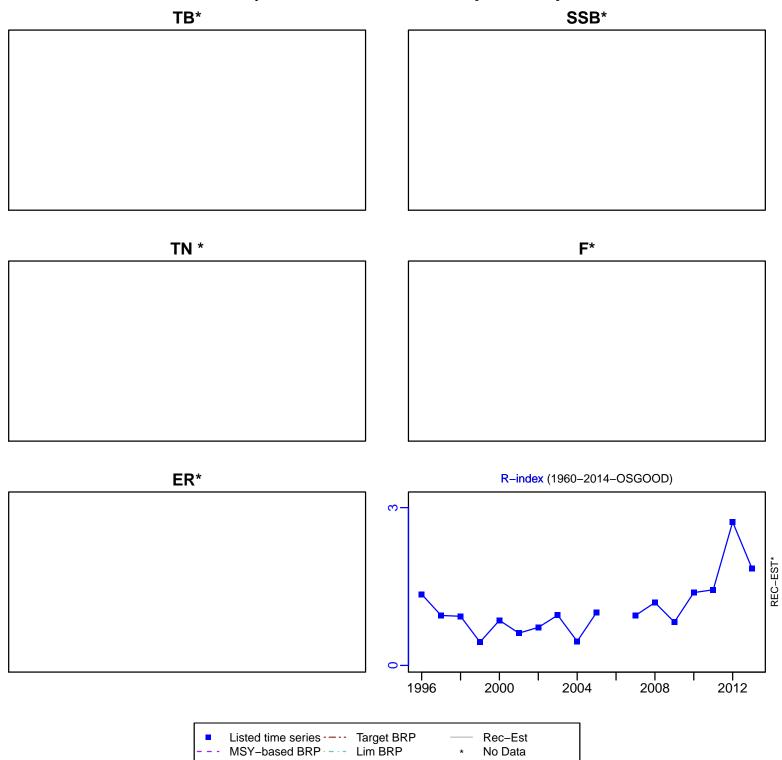
Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-index	2014	1.74	Both	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	4640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Thorny skate Grand Bank and St Pierre Bank [TSKA3LNOPs]

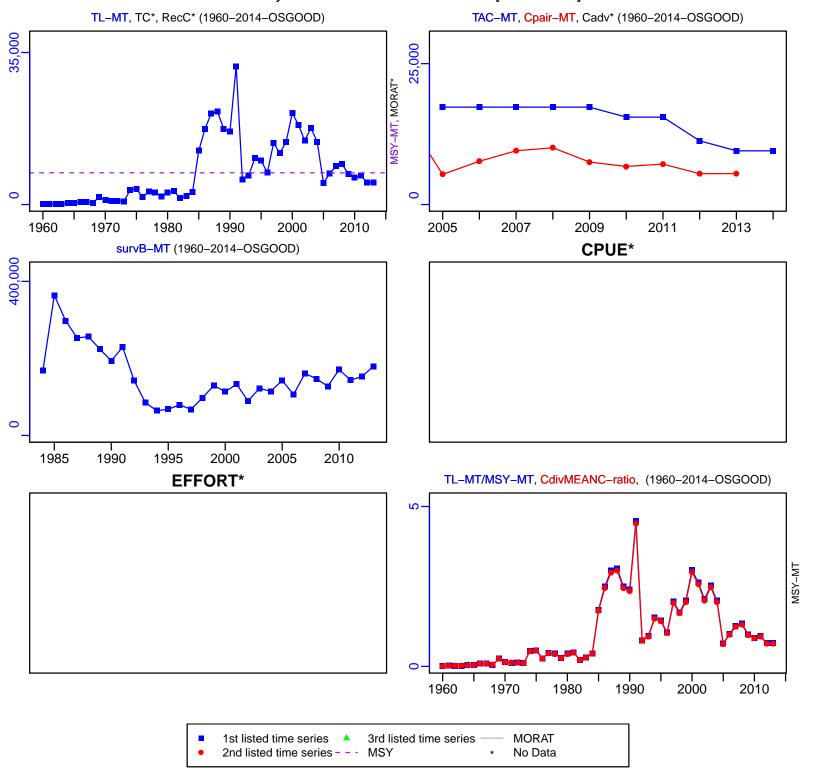
Kobe MSY*	Kobe MGT*
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

Thorny skate Grand Bank and St Pierre Bank [TSKA3LNOPs]



Thorny skate Grand Bank and St Pierre Bank [TSKA3LNOPs]



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	-	-	-
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	42		
TL	TL-MT	2010	1.22		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

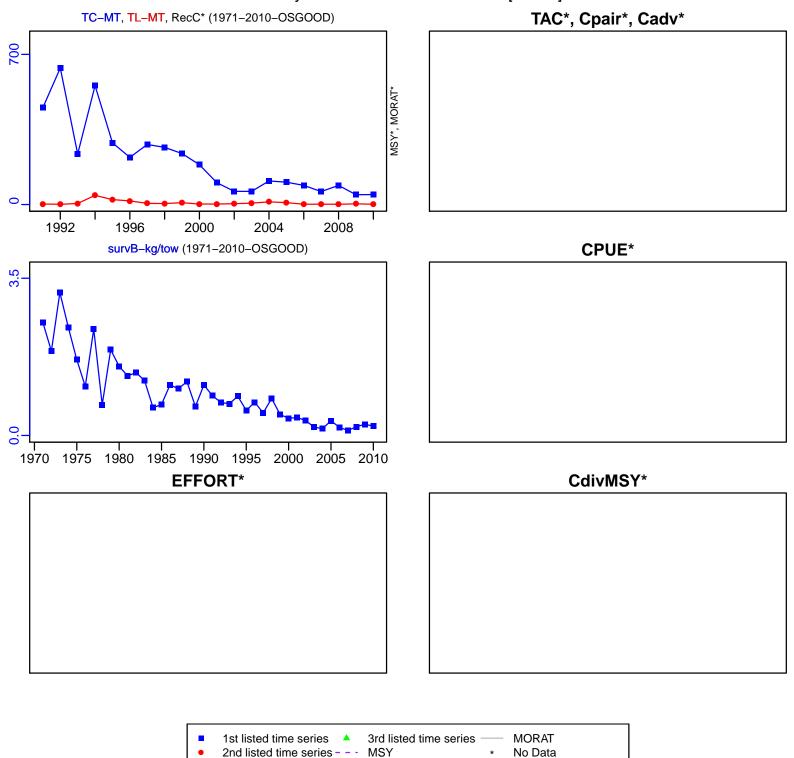
Thorny skate Southern Gulf of St. Lawrence [TSKA4T]

Kobe MGT*
Production*

◆ Start Year ◆ End Year * No Data

Thorny skate Southern Gulf of St. Lawrence [TSKA4T]

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



Metadata		
Scientific Name	Urophycis tenuis	
Current Assess ID	NAFO-SC-WHAKE3Ps-1960-2017-ASHBROOK	
Area	St. Pierre Bank	
Management Authority	Northwest Atlantic Fisheries Organization	
Assessor	NAFO Scientific Council	
Asmts in RAM	2017	

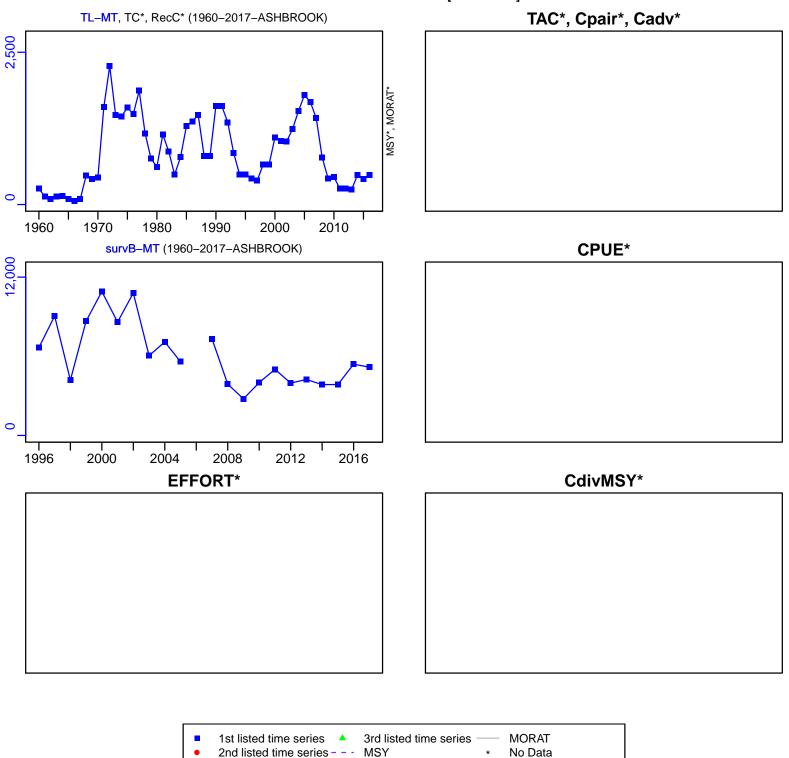
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2017	445		
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 m BRP * No Data



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

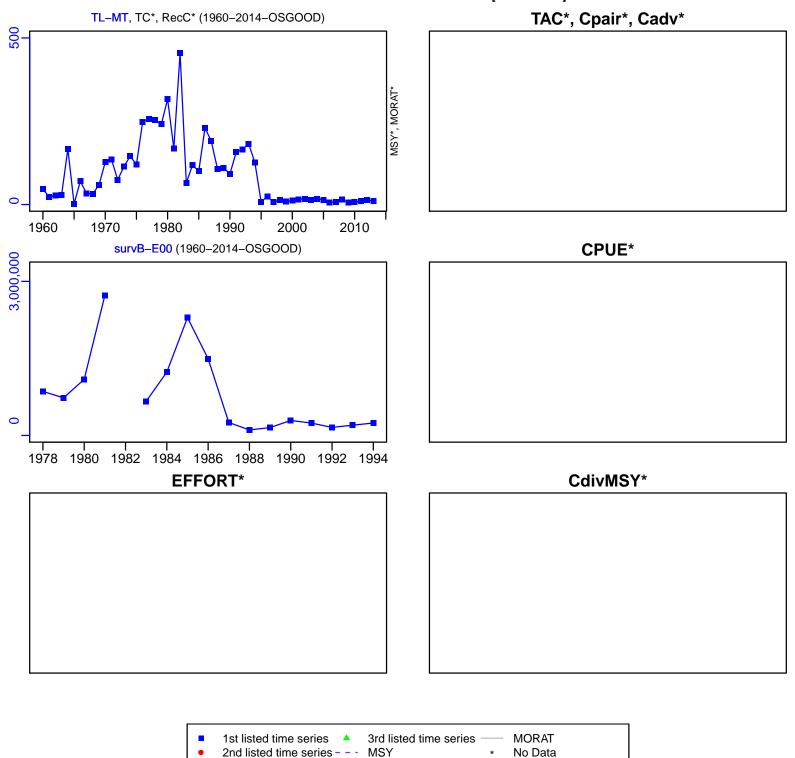
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2014	10		
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

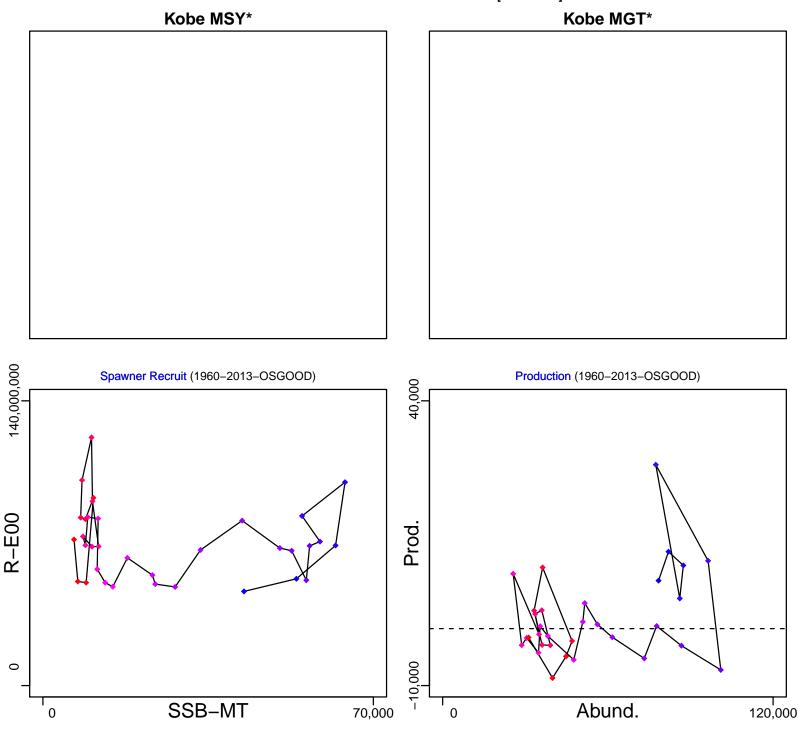
TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data



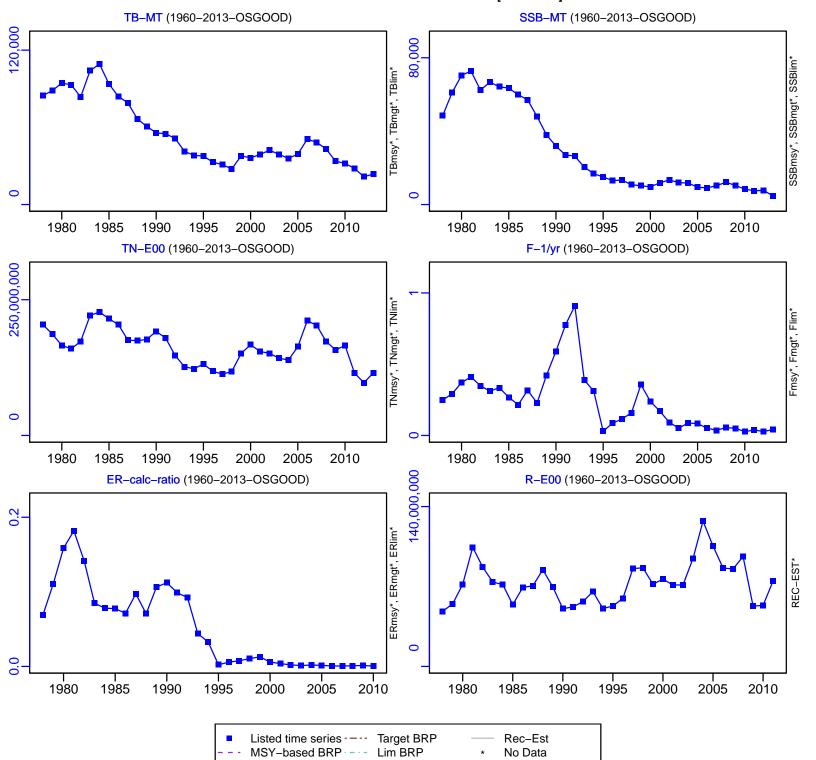
Metadata			
Scientific Name Urophycis tenuis			
Current Assess ID	Current Assess ID DFO-SG-WHAKE4T-1960-2013-OSGOOD		
Area Southern Gulf of St. Lawrence			
Management Authority Department of Fisheries and Oceans, Canada national management			
Assessor	Department of Fisheries and Oceans - Southern Gulf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

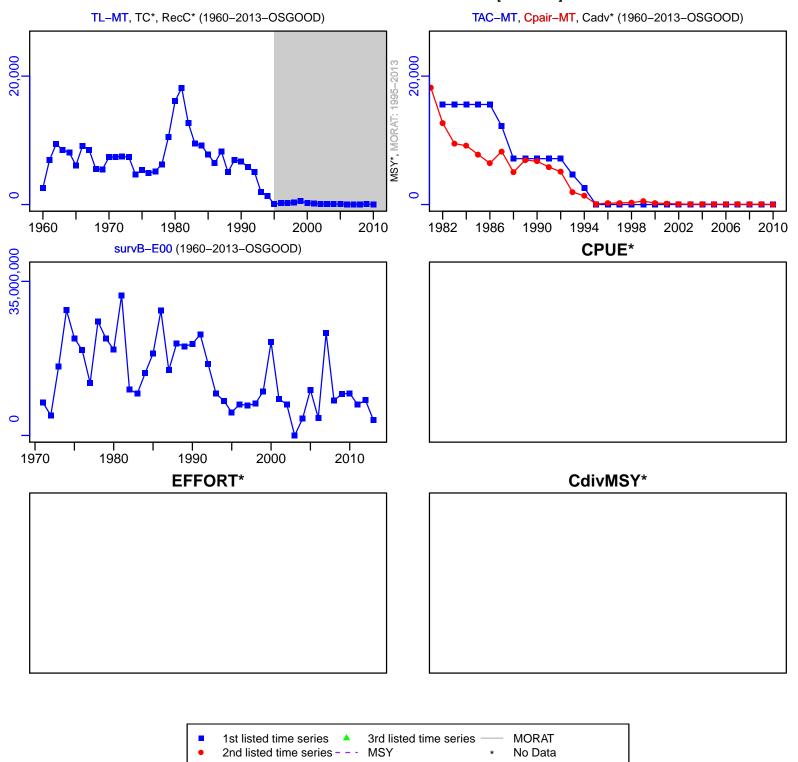
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2013	1.078	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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	0.035	Both	6+
ER	ER-calc-ratio	2013	0.001	-	-
TC	-	-	-		
TL	TL-MT	2013	15		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	1	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year → End Year → No Data





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	

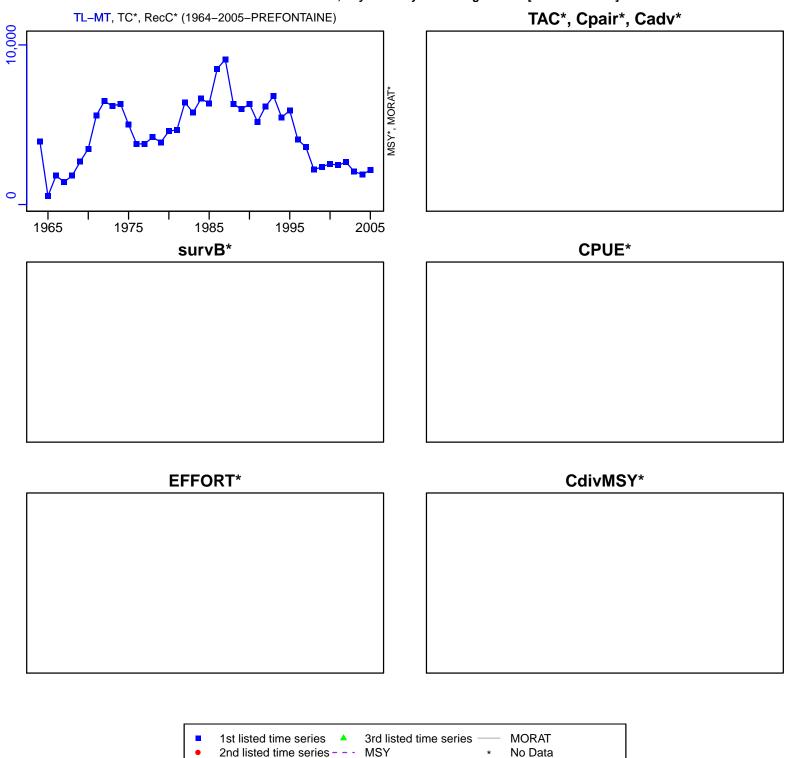
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2005	2060		
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
MSY-based BRP Li	im BRP * No Data

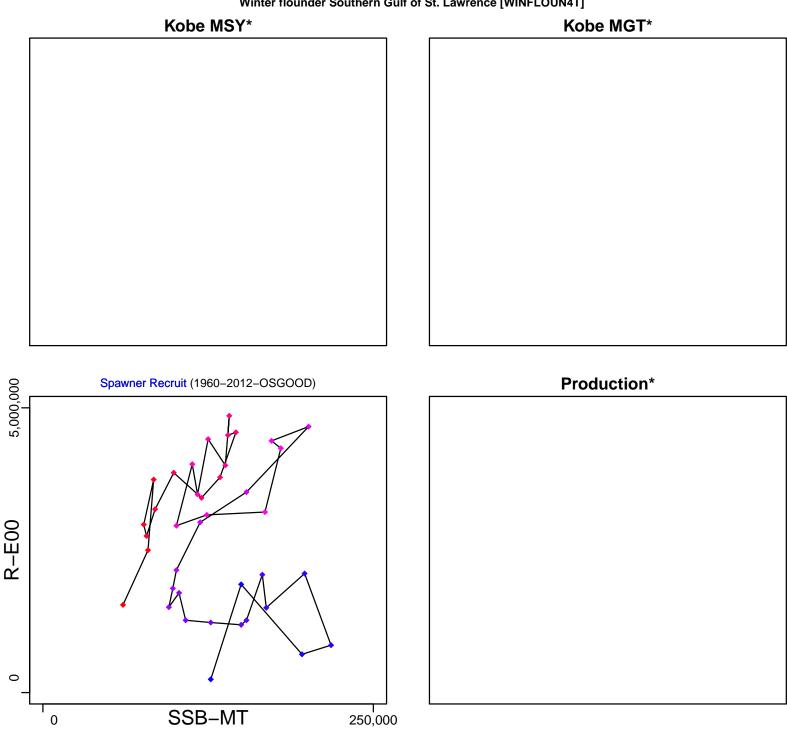


Winter flounder Southern Gulf of St. Lawrence [WINFLOUN4T]

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	

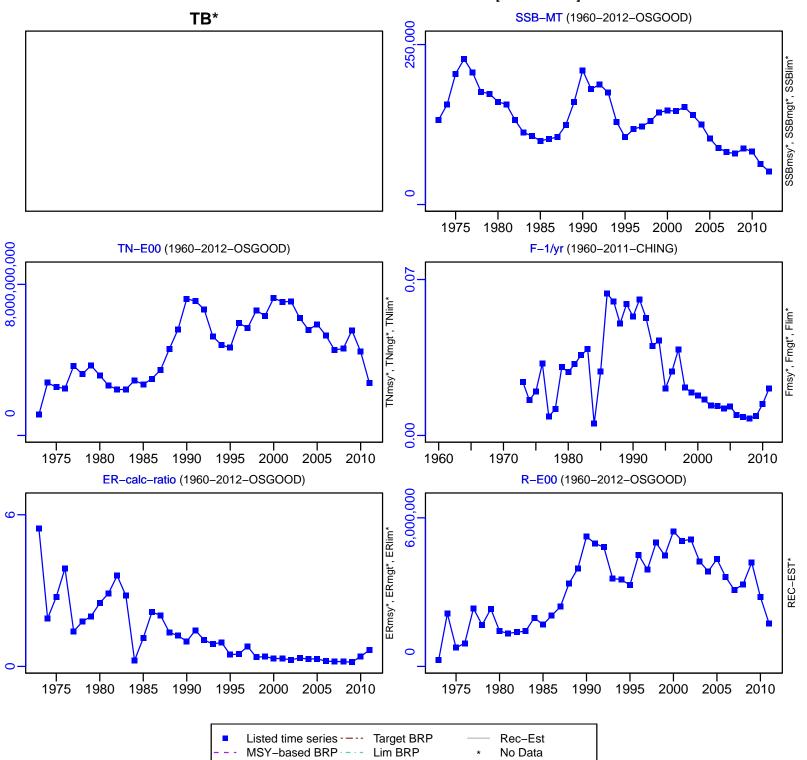
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
М	M-1/yr	2012	0.835	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

Time Series					
Туре	ID	Asmt Year	Curr Value	Sex	Age
ТВ	-	-	-	-	-
SSB	SSB-MT	2012	49,500	Both	3+
TN	TN-E00	2012	2.52×10^{9}	Both	3+
R	R-E00	2012	1,540,000	Both	-
F	F-1/yr	2011	0.02	-	6+
ER	ER-calc-ratio	2012	0.583	-	-
TC	TC-E00	2012	1.47×10^{9}		,
TL	TL-MT	2012	302		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

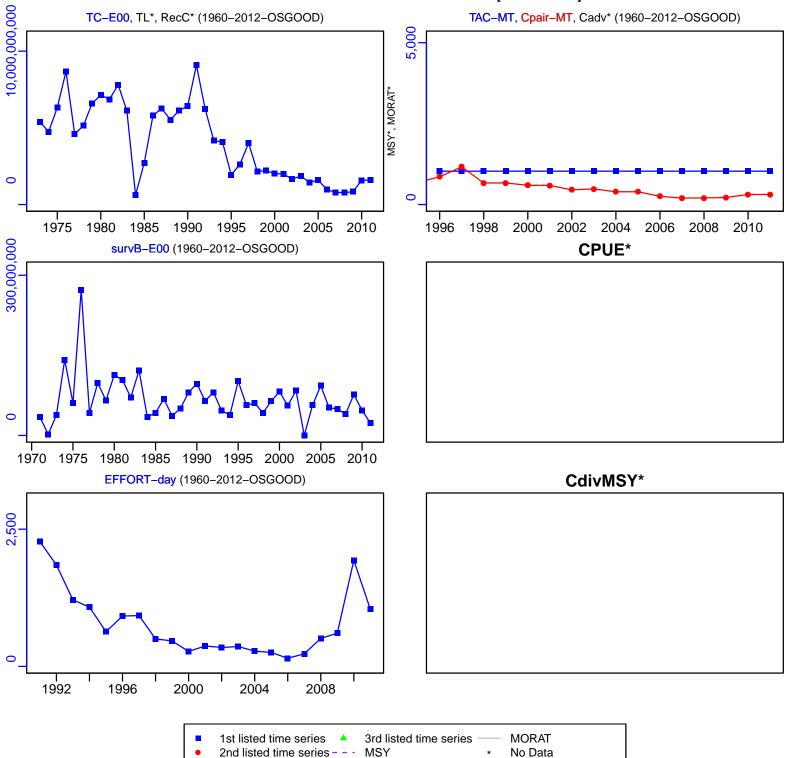


Start Year • End Year * No Data

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	

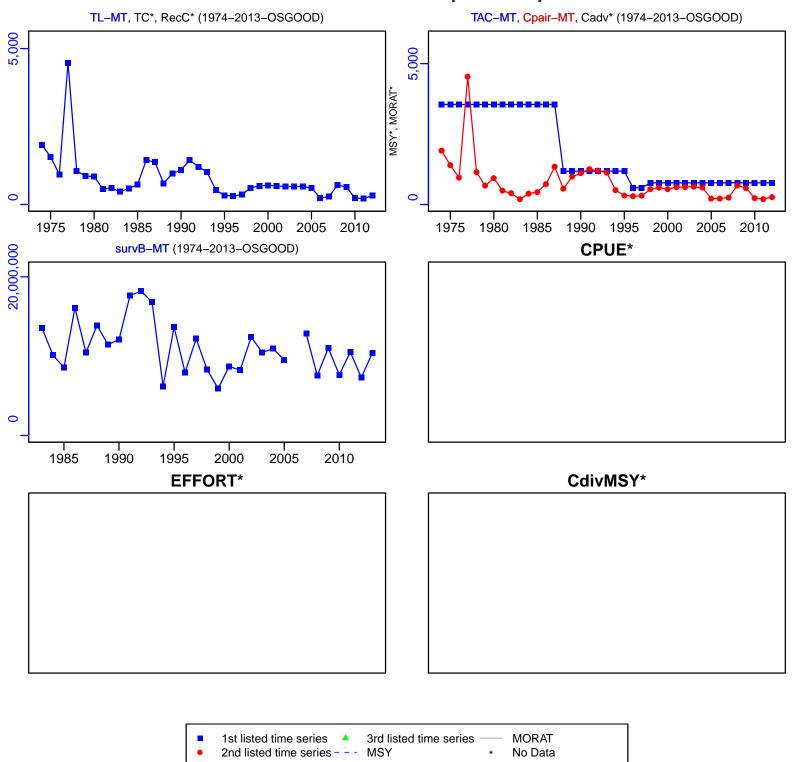
Reference Points			
Туре	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
М	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Туре	ID	Asmt Year	Curr Value	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*
	l
Spawner Recruit*	Production*

◆ Start Year ◆ End Year * No Data

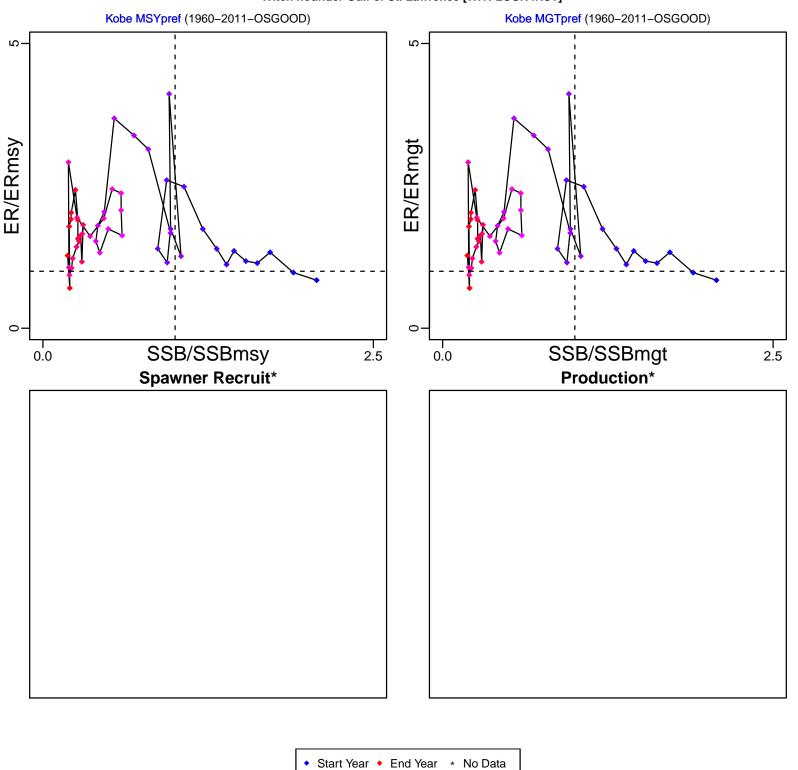
TB*	SSB*
TN *	F*
ER*	Recruits*
	Des Est
Listed time series Ta	arget BRP — Rec–Est im BRP * No Data

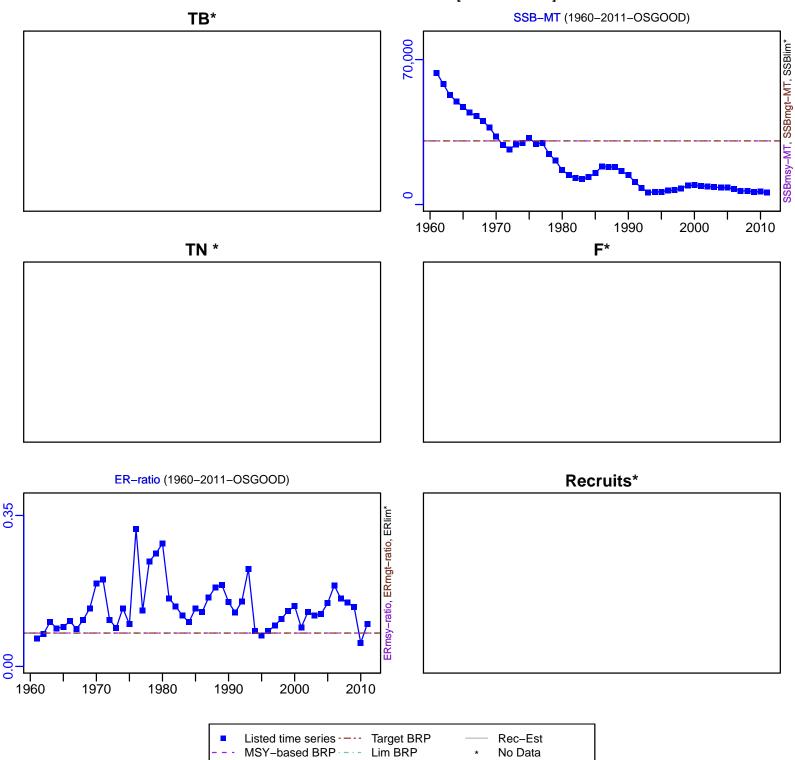


Metadata		
Scientific Name	Glyptocephalus cynoglossus	
Current Assess ID	DFO-SG-WITFLOUN4RST-1960-2011-OSGOOD	
Area	Gulf of St. Lawrence	
Management Authority	Department of Fisheries and Oceans, Canada national management	
Assessor	Department of Fisheries and Oceans - Southern Gulf Region	
Asmts in RAM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

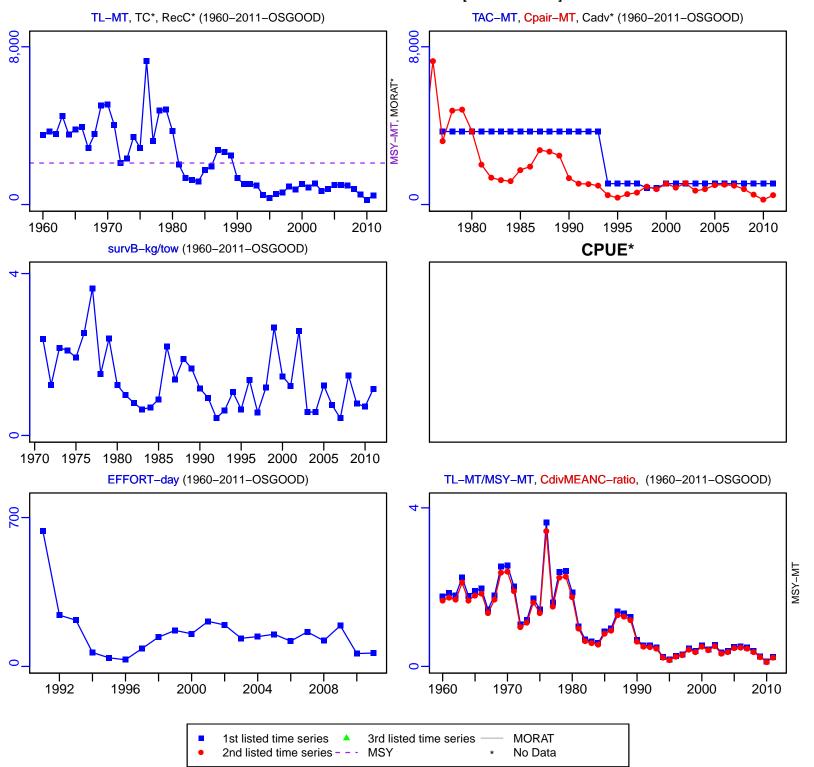
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	TBmsy-calc-MT	2011	28,429	
SSBmsy	SSBmsy-MT	2011	26,700	
Fmsy	-	-	-	
ERmsy	ERmsy-ratio	2011	0.07	
TBmgt	-	-	-	
SSBmgt	SSBmgt-MT	2011	26,700	
Fmgt	-	-	-	
ERmgt	ERmgt-ratio	2011	0.07	
TB0	-	-	-	
SSB0	-	-	-	
MSY	MSY-MT	2011	1990	
М	-	-	-	
TBlim	-	-	-	
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	0.089	Both	-
TC	-	-	-		
TL	TL-MT	2011	442		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.187		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2011	1.276		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.187		
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	

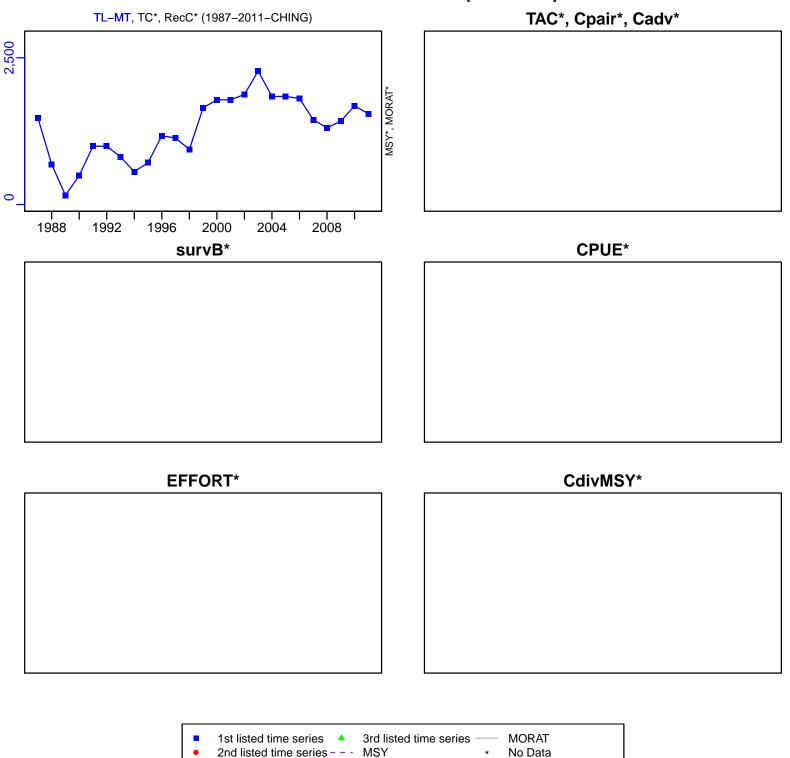
Reference Points				
Туре	ID	Asmt Year	Value	
TBmsy	-	-	-	
SSBmsy	-	-	-	
Fmsy	-	-	-	
ERmsy	-	-	-	
TBmgt	-	-	-	
SSBmgt	-	-	-	
Fmgt	-	-	-	
ERmgt	-	-	-	
TB0	-	-	-	
SSB0	-	-	-	
MSY	-	-	-	
M	-	-	-	
TBlim	-	-	-	
SSBlim	-	-	-	
Flim	-	-	-	
ERlim	-	-	-	

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

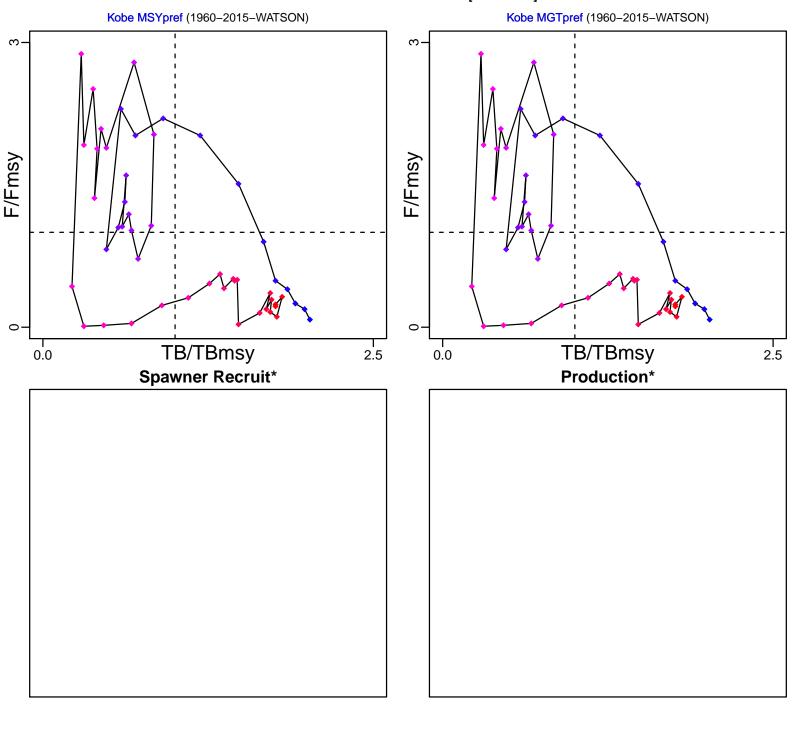
TB*	SSB*
TN *	F*
ED*	Doowito*
ER*	Recruits*
	J
■ Listed time series Ta	arget BRP — Rec-Est
Listed time series Ta	im BRP * No Data



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	0.256	
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	0.126	-	-
ER	ER-ratio	2009	0.039	-	-
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	0.151		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



Start Year • End Year * No Data

