

US East Coast Stocks

v4.61 (Apr-02-2023)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types			
		U/Umsy	B/Bmgt	U/Umgt	
1. ACADREDGOMGB [Acadian redfish Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
2. AMPL5YZ [American plaice Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
3. ATHAL5YZ [Atlantic halibut Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
4. ATLCROAKMATLC [Atlantic croaker Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
5. AWOLF5YZ [Atlantic wolffish Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
6. BCRABCHESB [Blue crab Chesapeake Bay]	TB SSB	ER F	TB SSB	ER F	
7. BLUEFISHATLC [Bluefish Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
8. BSBASSMATLC [Black sea bass Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
9. BSKAT5YZSNE [Barndoor skate Gulf of Maine / Georges Bank-Southern New England]	TB SSB	ER F	TB SSB	ER F	
10. BUTTERGOMCHATT [Atlantic butterfish Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F	
11. CODGB [Atlantic cod Georges Bank]	TB SSB	ER F	TB SSB	ER F	
12. CODGOM [Atlantic cod Gulf of Maine]	TB SSB	ER F	TB SSB	ER F	
13. CSKATMATLC [Clearnose skate Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
14. HAD5Y [Haddock Gulf of Maine]	TB SSB	ER F	TB SSB	ER F	
15. HADGB [Haddock Georges Bank]	TB SSB	ER F	TB SSB	ER F	
16. HERRNWATLC [Herring Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
17. ILLEXNWATLC [Northern shortfin squid Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
18. LISQUIDATLC [Longfin inshore squid Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
19. LOBSTERGOMGB [American lobster Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
20. LOBSTERSNE [American lobster Southern New England]	TB SSB	ER F	TB SSB	ER F	
21. LSKAT5YCHATT [Little skate Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F	
22. LSKAT5ZSNE [Little skate Georges Bank-Southern New England]	TB SSB	ER F	TB SSB	ER F	
23. MACK5YCHATT [Atlantic mackerel Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F	
24. MENATLAN [Atlantic menhaden Atlantic]	TB SSB	ER F	TB SSB	ER F	
25. MONKGOMNGB [Monkfish Gulf of Maine / Northern Georges Bank]	TB SSB	ER F	TB SSB	ER F	
26. MONKSGBMATL [Monkfish Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F	
27. OPOUTNWATLC [Ocean pout Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
28. PANDALGOM [Northern shrimp Gulf of Maine]	TB SSB	ER F	TB SSB	ER F	
29. POLL5YZ [Pollock Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
30. QUAHATLC [Ocean quahog Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
31. RDEEPCRABNWATL [Red deepsea crab Northwestern Atlantic]	TB SSB	ER F	TB SSB	ER F	
32. RHAKEGOMNGB [Red hake Gulf of Maine / Northern Georges Bank]	TB SSB	ER F	TB SSB	ER F	
33. RHAKESGBMATL [Red hake Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F	
34. RSKATMATLC [Rosette skate Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
35. SCALL5ZMAB [Sea scallop Georges Bank and Mid-Atlantic Bight]	TB SSB	ER F	TB SSB	ER F	

36. SCHHEADATL [Scalloped hammerhead Atlantic]	TB SSB	ER F	TB SSB	ER F
37. SCUPNWATLC [Scup Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
38. SDOGATLC [Spiny dogfish Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
39. SFLOUNMATLC [Summer flounder Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
40. SHAKEGOMNGB [Silver hake Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
41. SHAKESGBMATL [Silver hake Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F
42. SMDOGATL [Smooth dogfish Atlantic]	TB SSB	ER F	TB SSB	ER F
43. SSKAT5YZSNE [Smooth skate Gulf of Maine / Georges Bank-Southern New England]	TB SSB	ER F	TB SSB	ER F
44. STRIPEDBASSGOMCHATT [Striped bass Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F
45. SURFMATLC [Atlantic surfclam Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
46. TILEMATLC [Tilefish Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
47. TSKAT5YZSNE [Thorny skate Gulf of Maine / Georges Bank-Southern New England]	TB SSB	ER F	TB SSB	ER F
48. WEAKEFISHATLC [Weakfish Atlantic Coast]	TB SSB	ER F	TB SSB	ER F
49. WHAKEGBGOM [White hake Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
50. WINDOWGOMGB [Windowpane flounder Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F
51. WINDOWSNEMATL [Windowpane flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F
52. WINFLOUN5Z [Winter flounder Georges Bank]	TB SSB	ER F	TB SSB	ER F
53. WINFLOUND5Y [Winter flounder Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
54. WINFLOUNSNEMATL [Winter flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F
55. WITFLOUN5Y [Witch flounder Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
56. WSKAT5YCHATT [Winter skate Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F
57. WSKAT5ZSNE [Winter skate Georges Bank-Southern New England]	TB SSB	ER F	TB SSB	ER F
58. YELLCCODGOM [Yellowtail flounder Cape Cod / Gulf of Maine]	TB SSB	ER F	TB SSB	ER F
59. YELLGB [Yellowtail flounder Georges Bank]	TB SSB	ER F	TB SSB	ER F
60. YELLSNEMATL [Yellowtail flounder Southern New England /Mid Atlantic]	TB SSB	ER F	TB SSB	ER F

Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

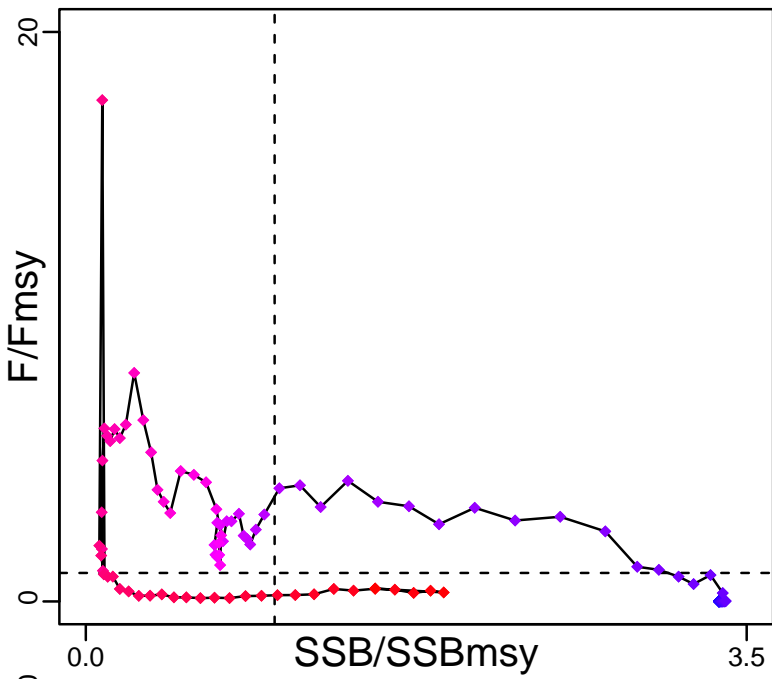
Metadata	
Scientific Name	Sebastes fasciatus
Current Assess ID	NEFSC-ACADREDGOMGB-1913-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2007, 2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	201,000
Fmsy	Fmsy-1/yr	2019	0.038
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	9318
M	M-1/yr	2007	0.05
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	1×10^5
Flim	Flim-1/yr	2019	0.038
ERlim	-	-	-

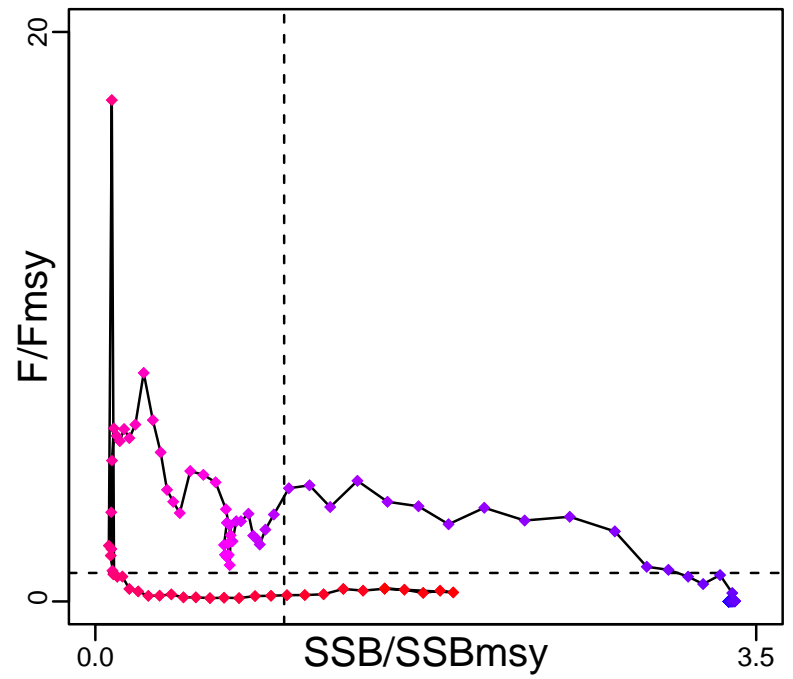
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	308,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	97,800,000	-	1
F	F-1/yr	2019	0.017	-	-
ER	ER-ratio	2007	0.002	-	-
TC	TC-MT	2019	5380		
TL	TL-MT	2007	787		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.532		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.453		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

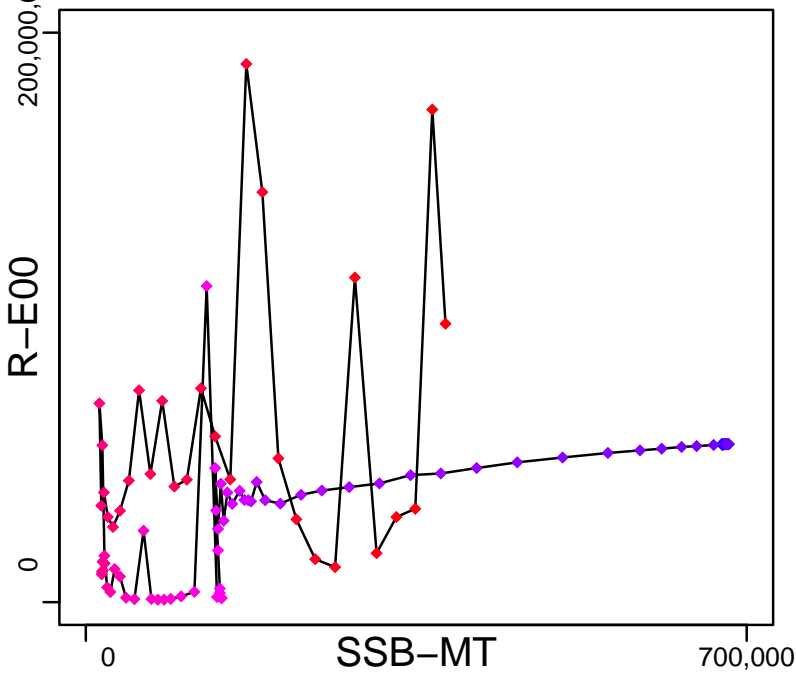
Kobe MSYpref (1913–2019–SISIMP2021–2)



Kobe MGTpref (1913–2019–SISIMP2021–2)



Spawner Recruit (1913–2019–SISIMP2021–2)



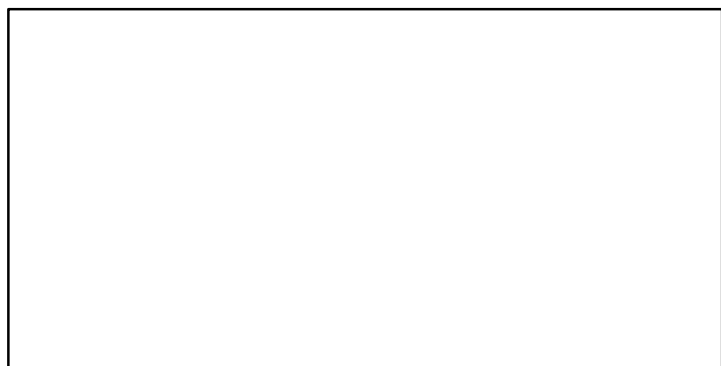
Production*



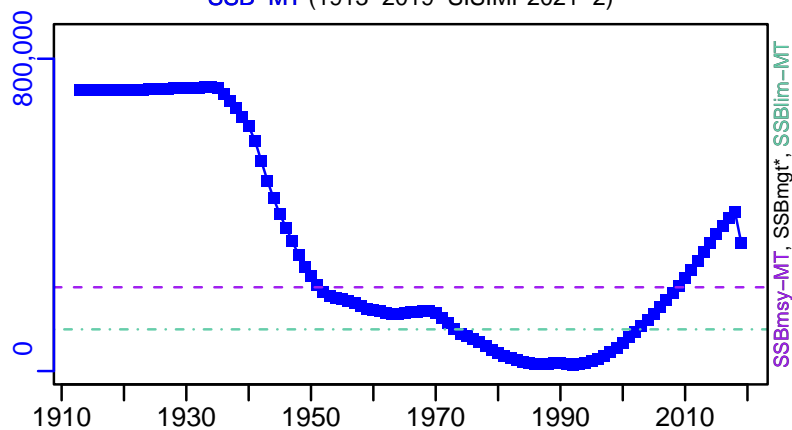
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Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

TB*



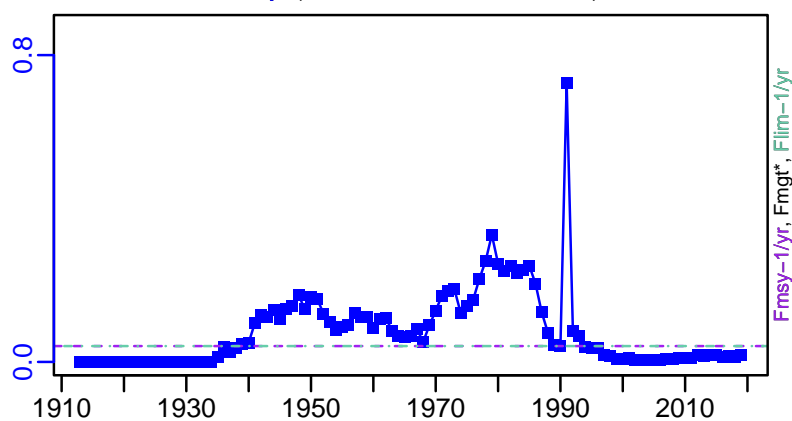
SSB-MT (1913-2019-SISIMP2021-2)



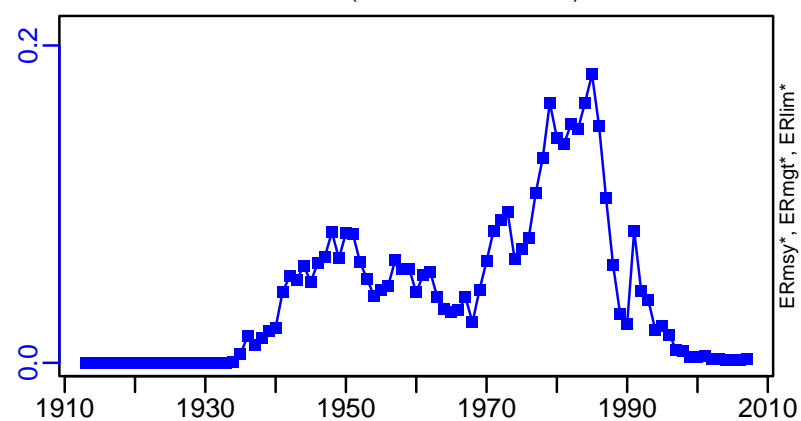
TN *



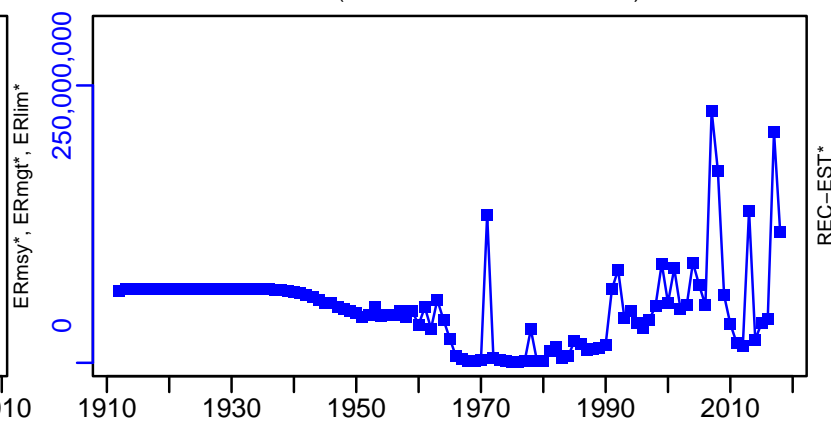
F-1/yr (1913-2019-SISIMP2021-2)



ER-ratio (1913-2007-MILLER)



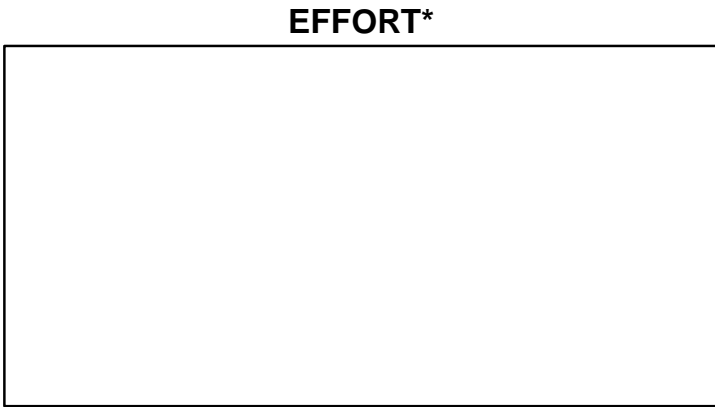
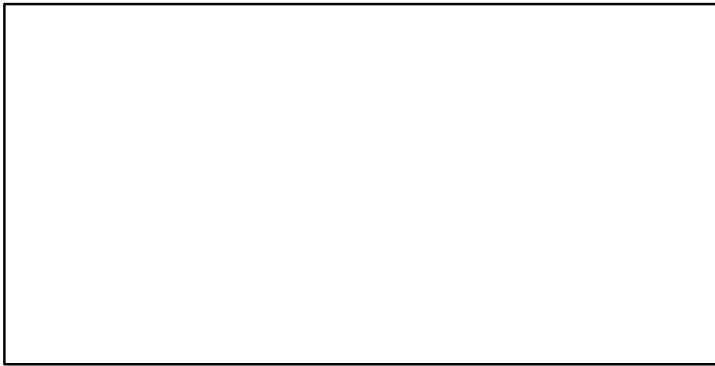
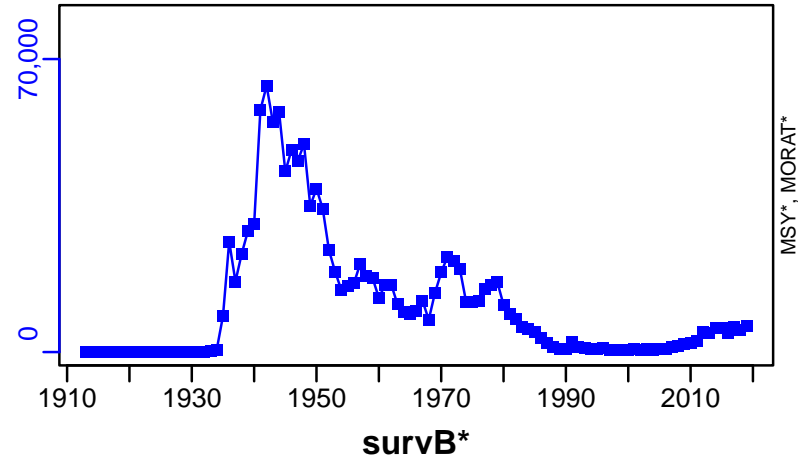
R-E00 (1913-2019-SISIMP2021-2)



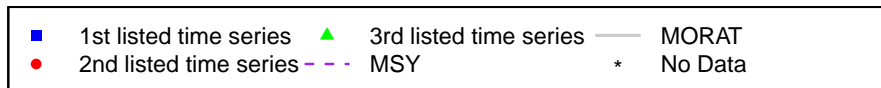
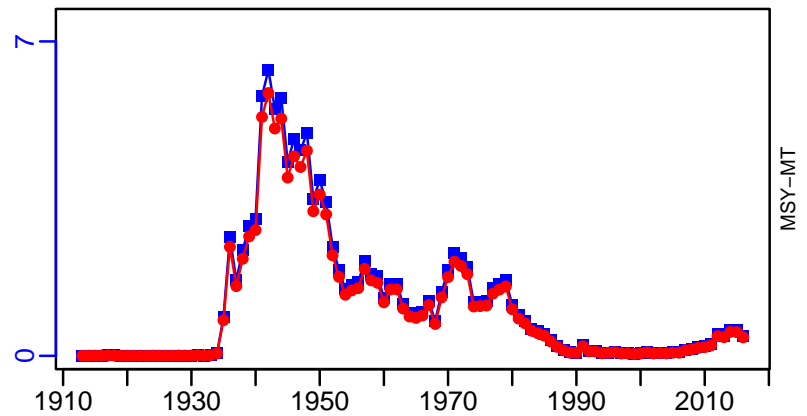
Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

TC-MT, TL*, RecC* (1913-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



TC-MT/MSY-MT, CdivMEANC-ratio, (1912-2016-SISIMP2021)



American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

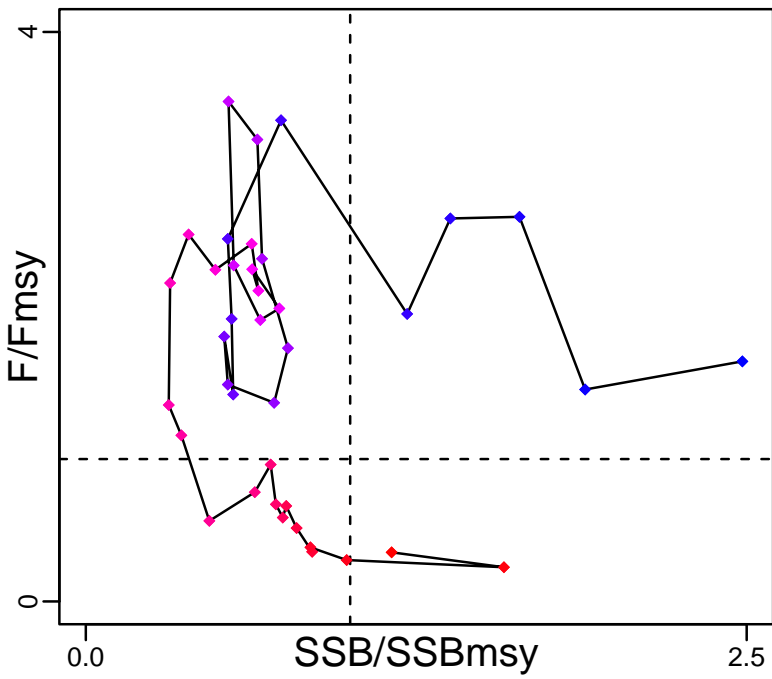
Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	NEFSC-AMPL5YZ-1960-2018-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2018, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	15,300
Fmsy	Fmsy-1/yr	2018	0.258
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	3300
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	7650
Flim	Flim-1/yr	2018	0.258
ERlim	-	-	-

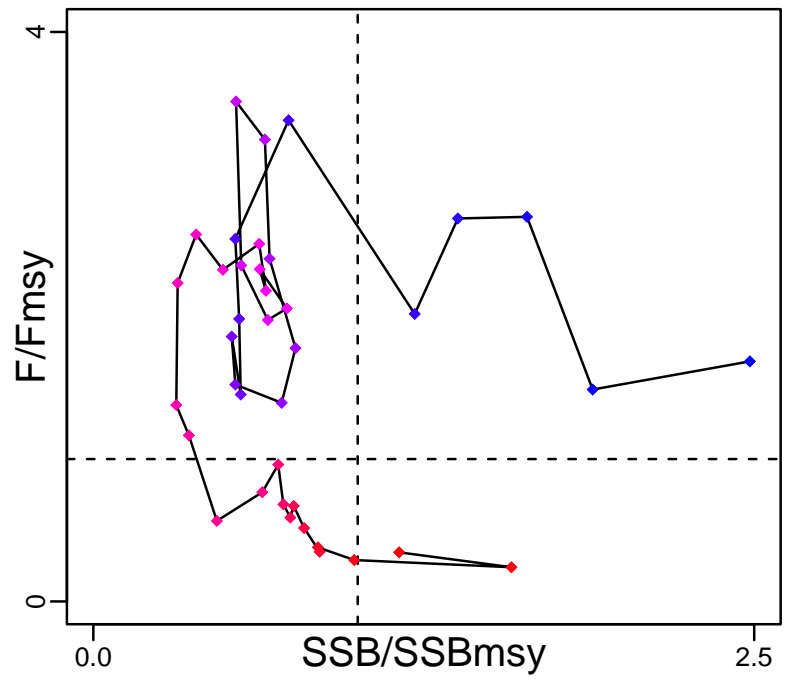
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	17,700	-	-
TN	-	-	-	-	-
R	R-E00	2018	37,800,000	-	1
F	F-1/yr	2018	0.089	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	1090		
TL	TL-MT	2010	1400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.157		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.345		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

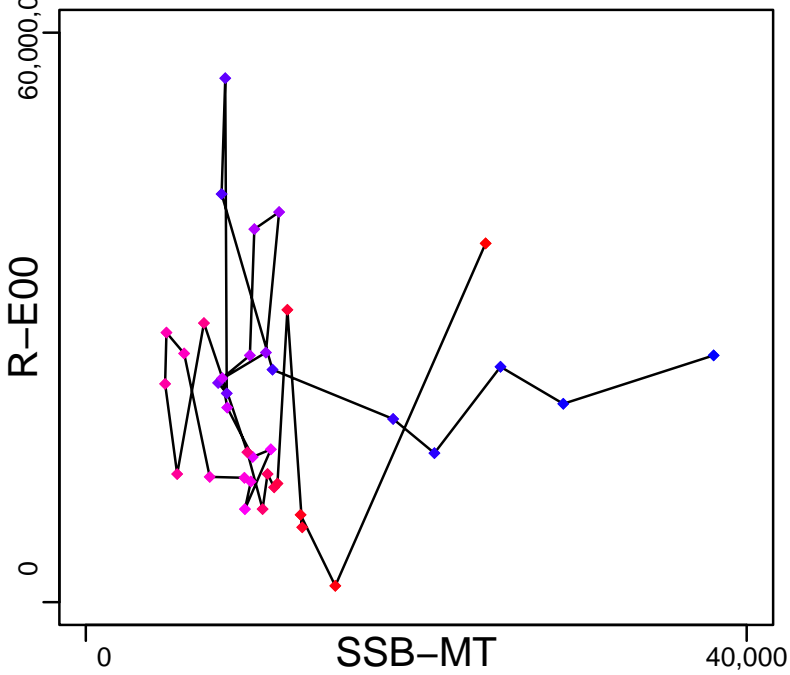
Kobe MSYpref (1960–2018–SISIMP2021–2)



Kobe MGTpref (1960–2018–SISIMP2021–2)



Spawner Recruit (1960–2018–SISIMP2021–2)



Production*



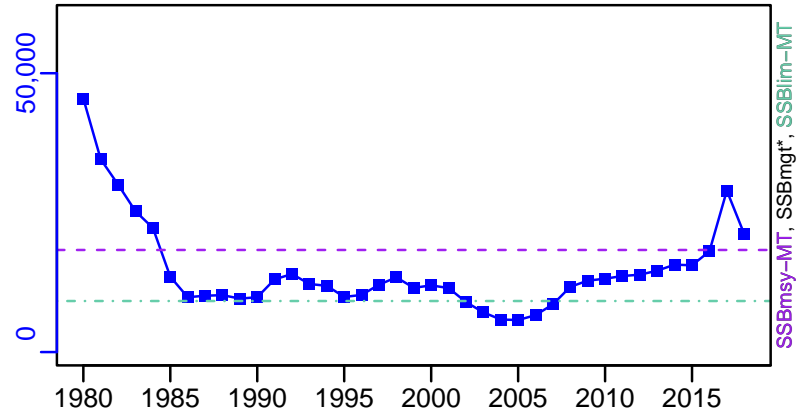
◆ Start Year ◆ End Year * No Data

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

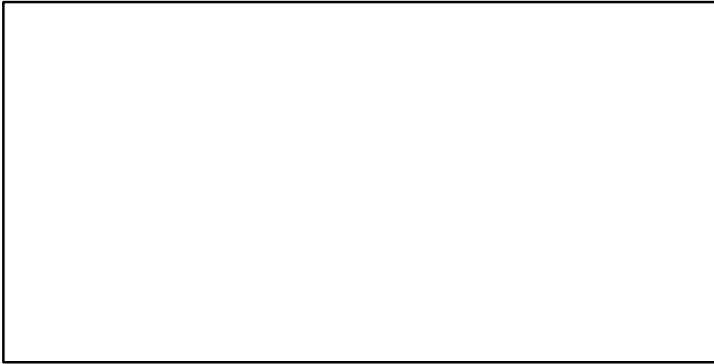
TB*



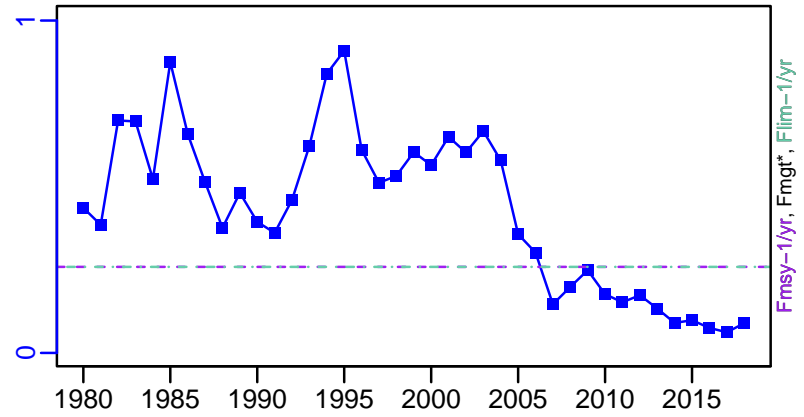
SSB-MT (1960–2018–SISIMP2021–2)



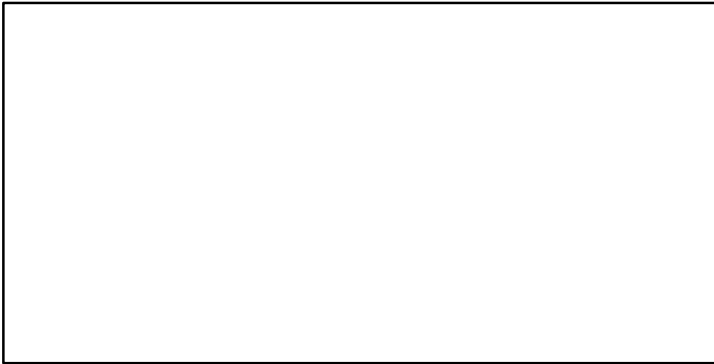
TN *



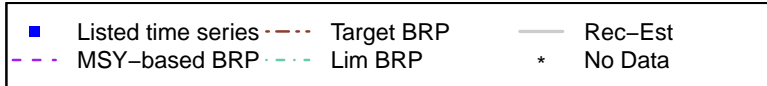
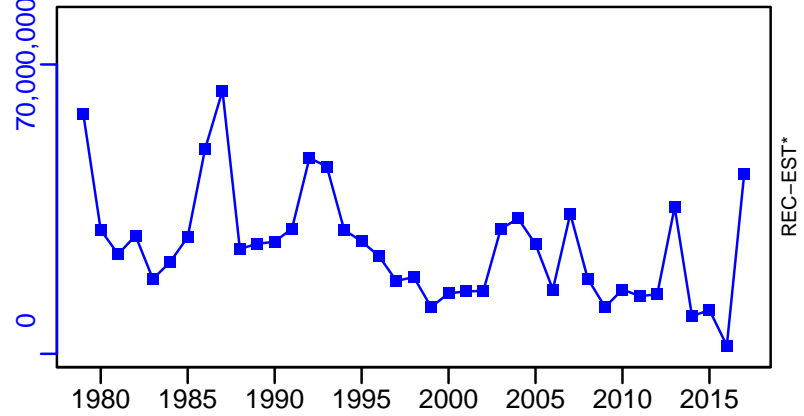
F-1/yr (1960–2018–SISIMP2021–2)



ER*



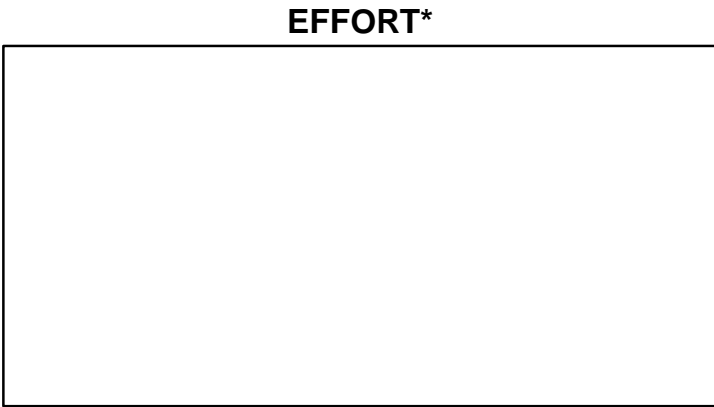
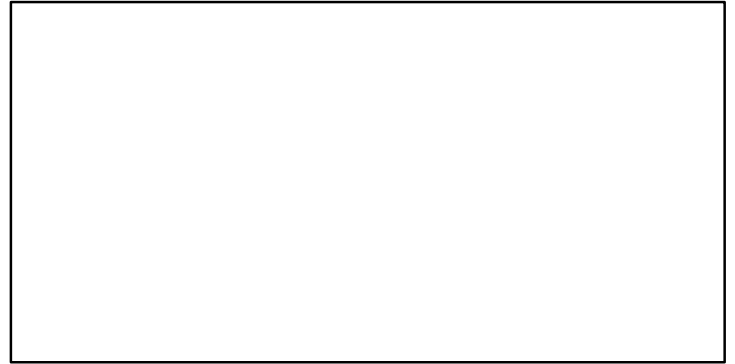
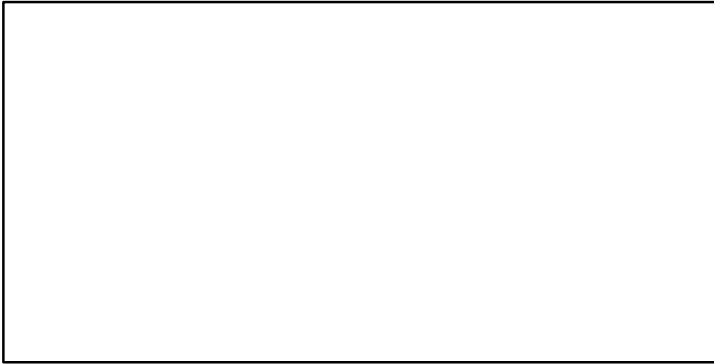
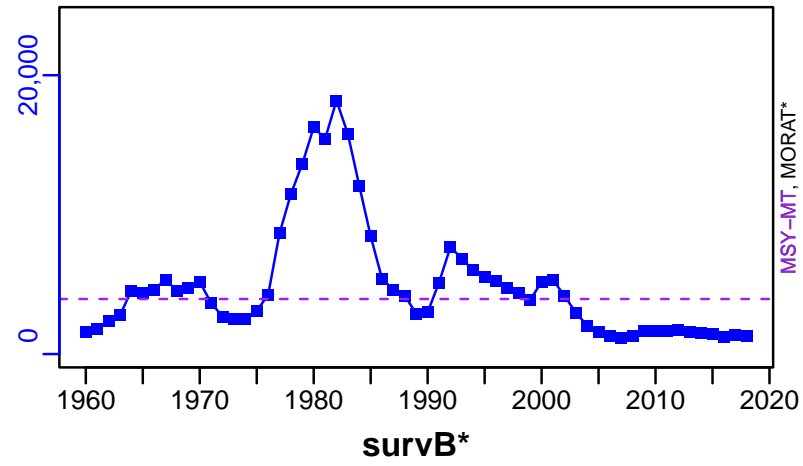
R-E00 (1960–2018–SISIMP2021–2)



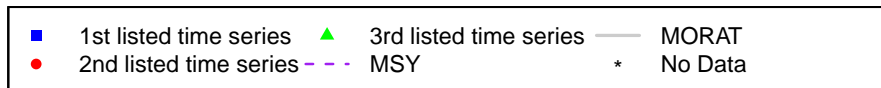
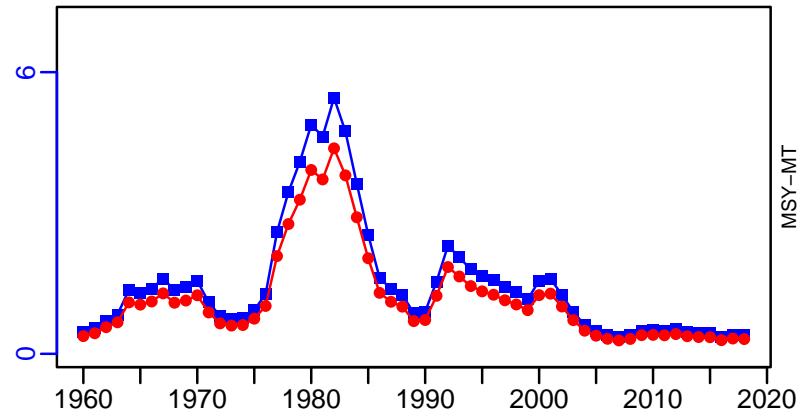
American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

TC-MT, TL*, RecC* (1960-2018-SISIMP2021-2)

TAC*, Cpair*, Cadv*



TC-MT/MSY-MT, CdivMEANC-ratio, (1960-2018-SISIMP2021-2)



Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

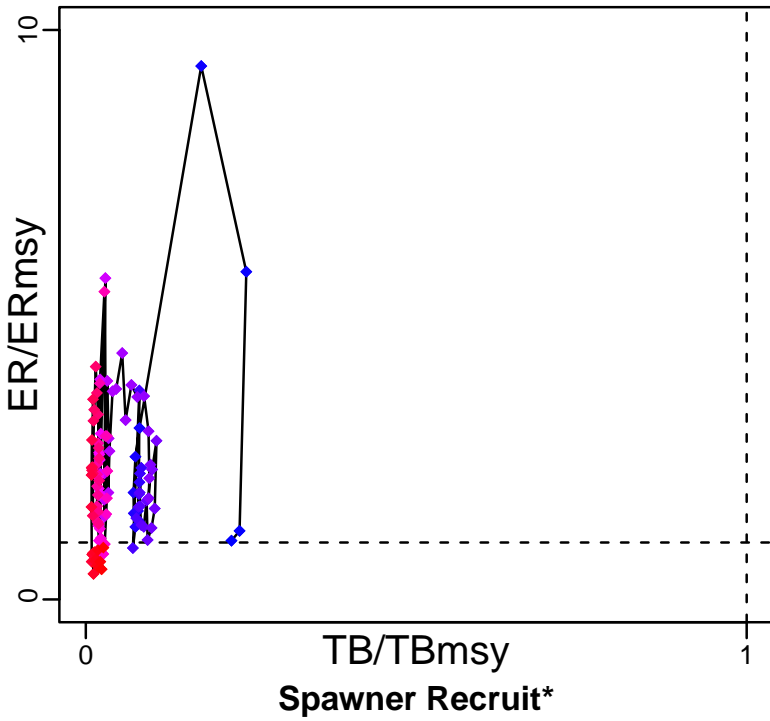
Metadata	
Scientific Name	Hippoglossus hippoglossus
Current Assess ID	NEFSC-ATHAL5YZ-2002-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	49,000
SSBmsy	SSBmsy-MT	2007	49,000
Fmsy	Fmsy-1/yr	2007	0.073
ERmsy	ERmsy-ratio	2007	0.071
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2007	3500
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

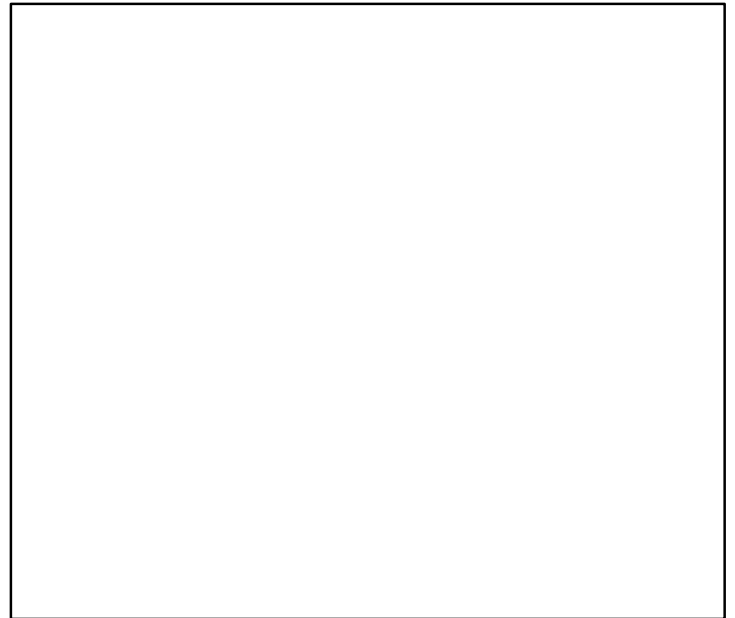
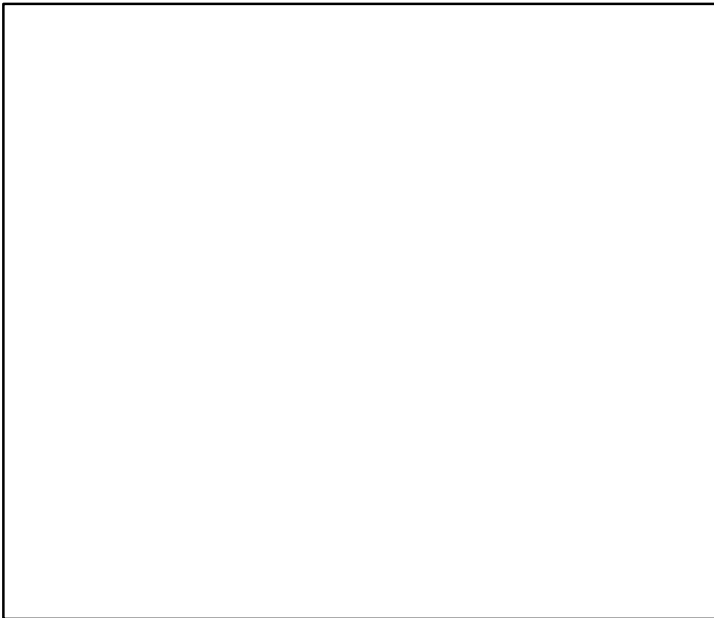
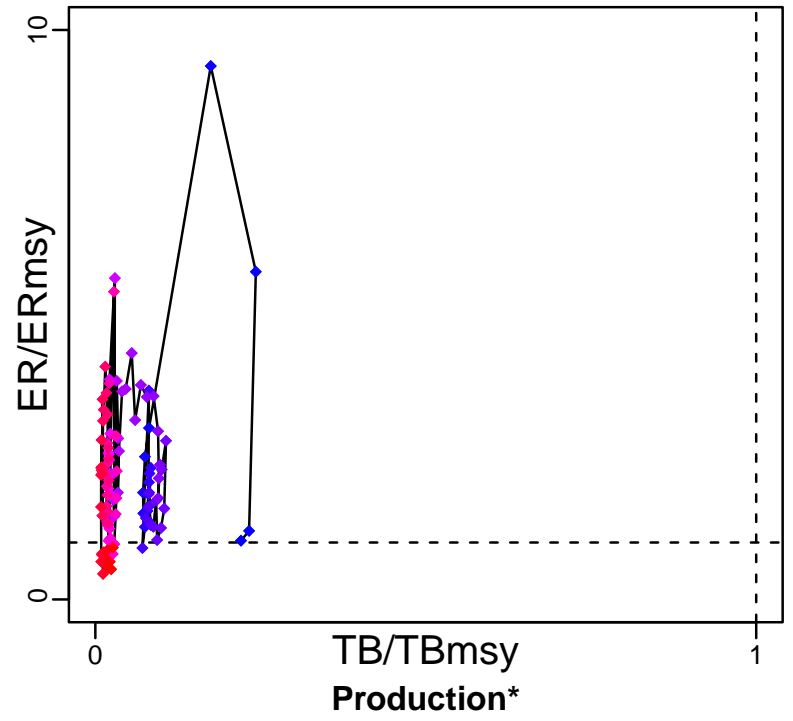
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	1300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2007	0.065	-	-
ER	ER-ratio	2007	0.065	-	-
TC	TC-MT	2019	134		
TL	TL-MT	2007	52		
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.027		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.89		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.91		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

Kobe MSYpref (1800–2007–COL)



Kobe MGTpref (1800–2007–COL)

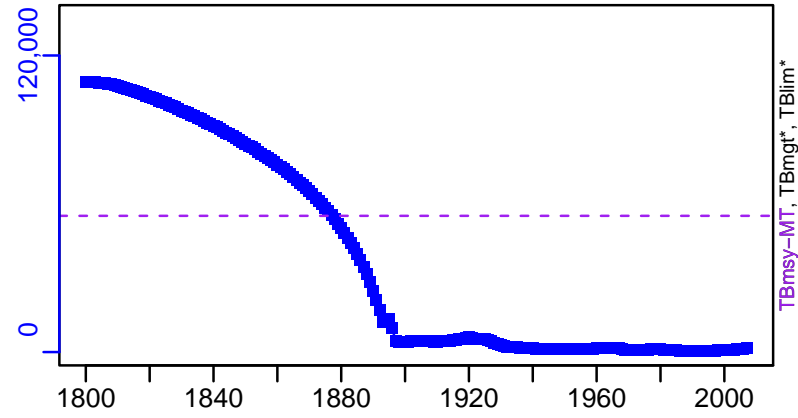


◆ Start Year ◆ End Year * No Data

Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

TB-MT (1800–2007–COL)

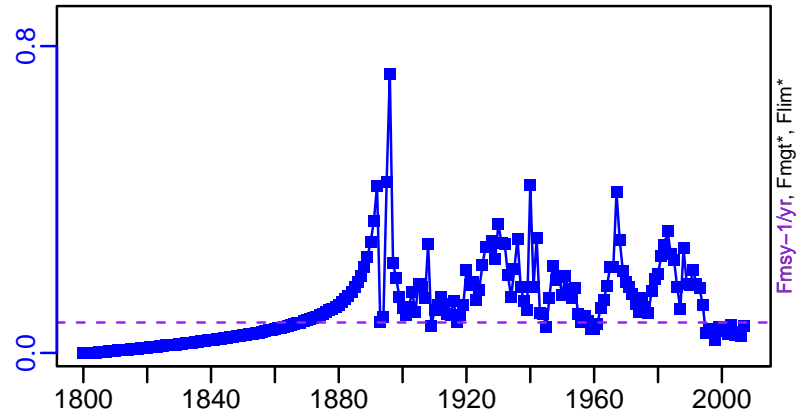
SSB*



TN *

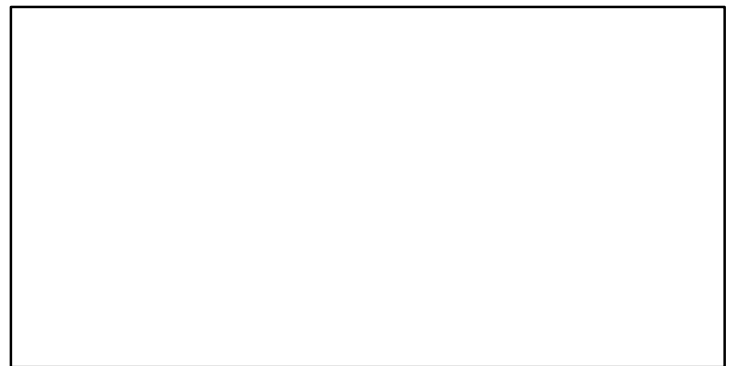
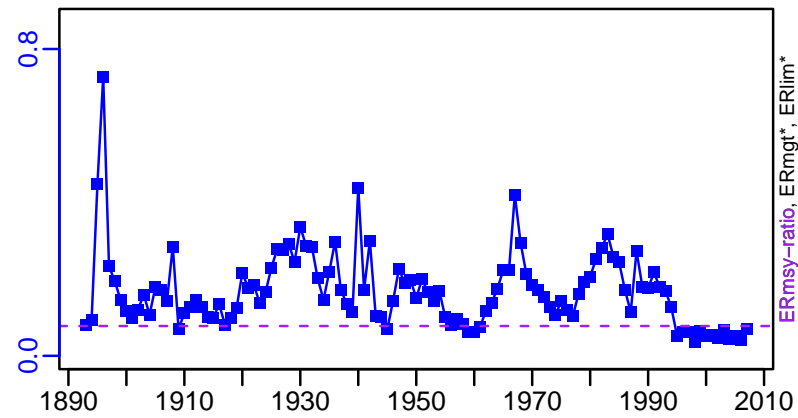


F-1/yr (1800–2007–COL)



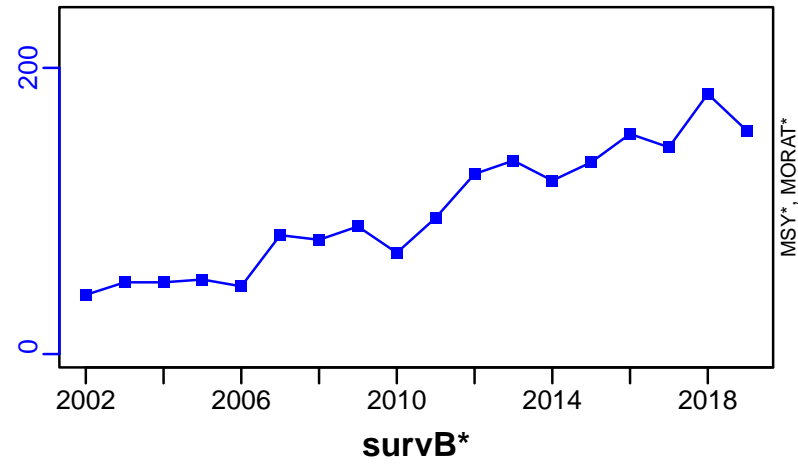
ER-ratio (1800–2007–COL)

Recruits*



Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

TC-MT, TL*, RecC* (2002-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



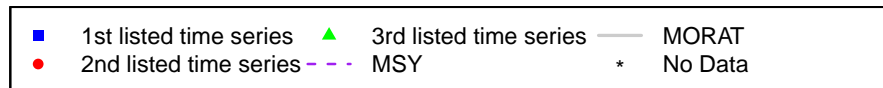
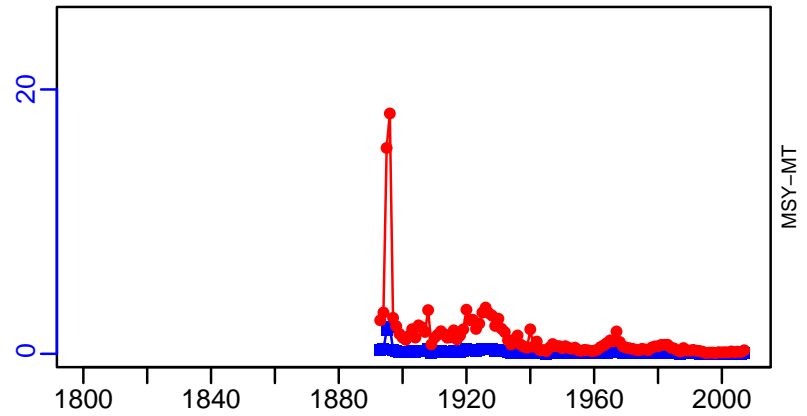
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1800-2007-COL)



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

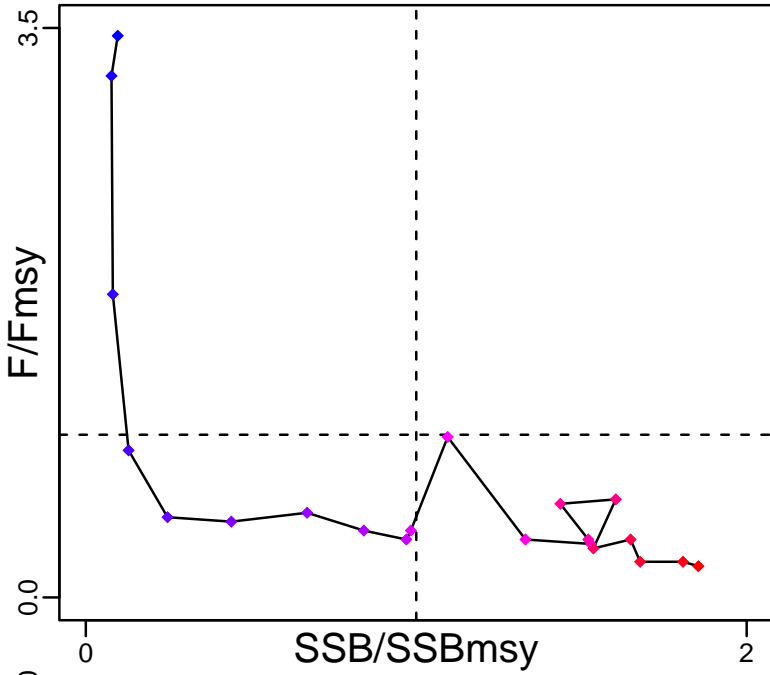
Metadata	
Scientific Name	Micropogonias undulatus
Current Assess ID	ASMFC-ATLCROAKMATLC-1981-2008-HIVELY
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2002, 2008

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	72,362
Fmsy	Fmsy-1/yr	2008	0.365
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2002	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

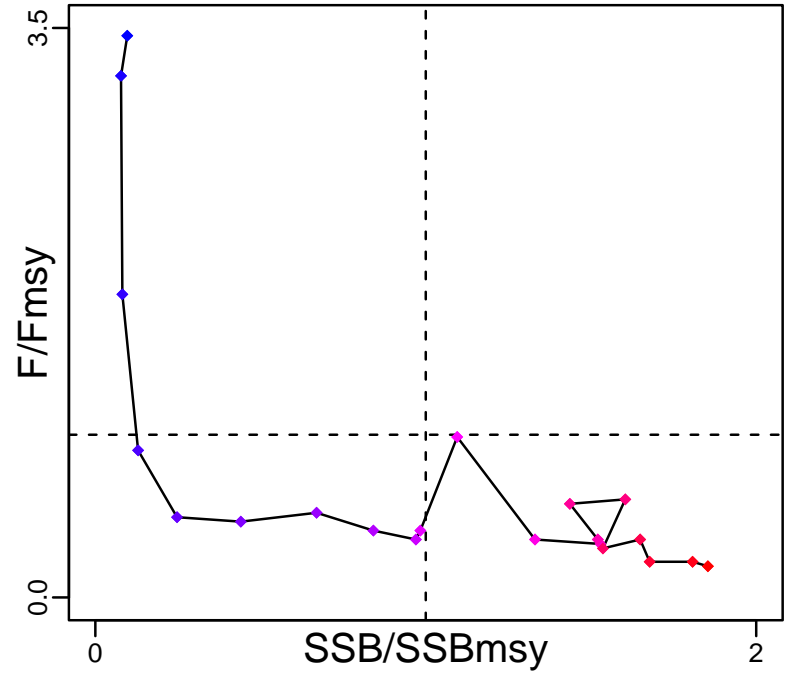
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	134,143	Females	-
TN	-	-	-	-	-
R	R-E00	2008	643,964,000	-	0
F	F-1/yr	2008	0.07	-	-
ER	ER-ratio	2002	0.088	-	-
TC	-	-	-		
TL	TL-MT	2008	12,647		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	1.854		
F/Fmsy	F-1/yr/Fmsy-1/yr	2008	0.192		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

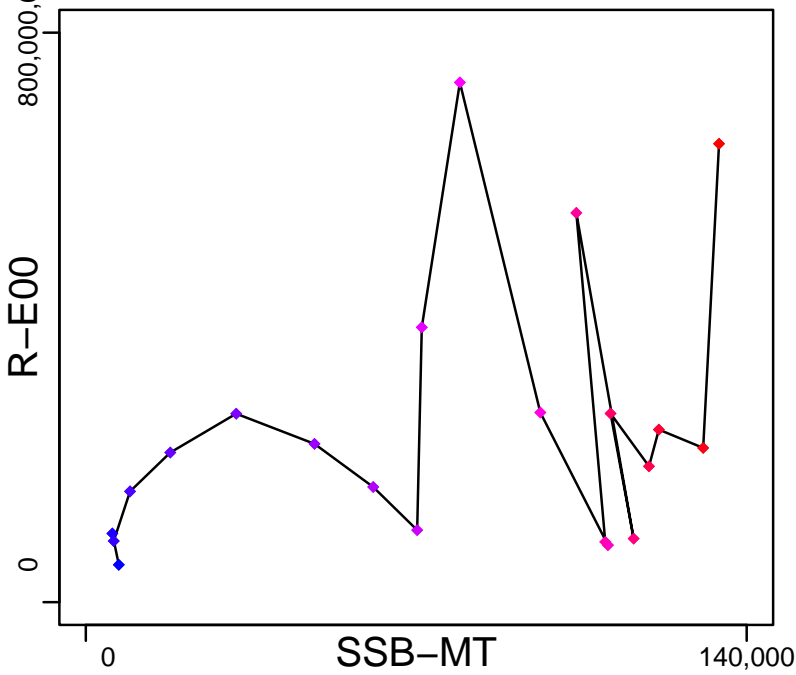
Kobe MSYpref (1981–2008–HIVELY)



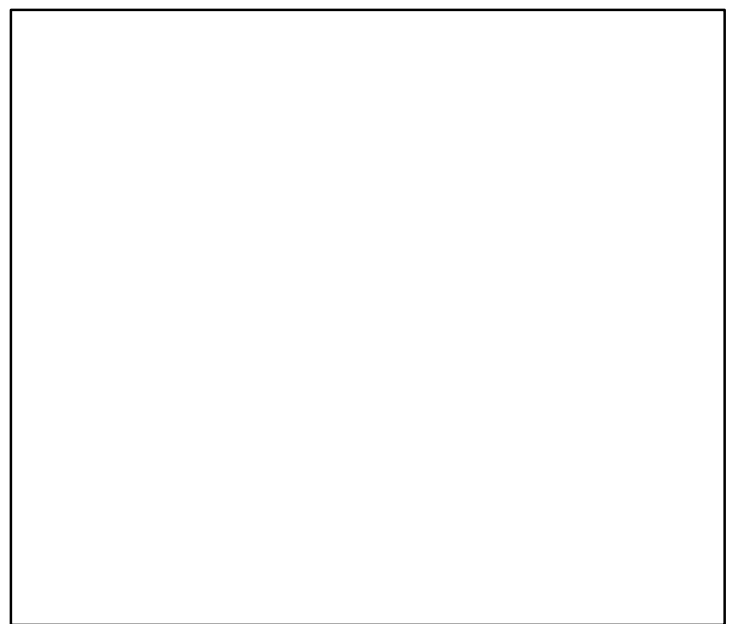
Kobe MGTpref (1981–2008–HIVELY)



Spawner Recruit (1981–2008–HIVELY)



Production*



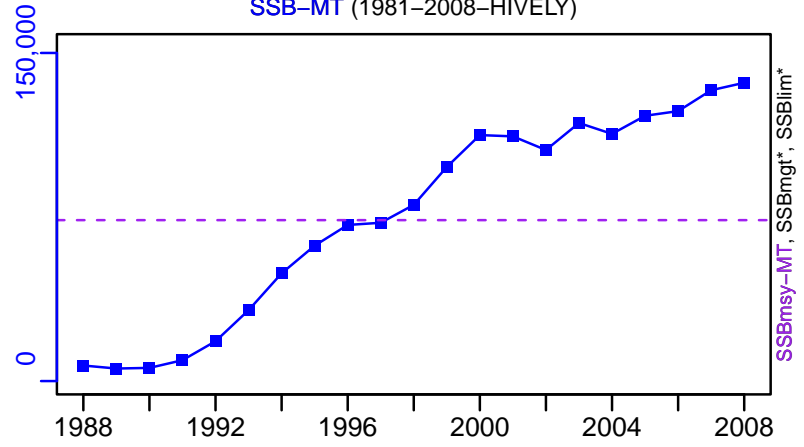
◆ Start Year ◆ End Year * No Data

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

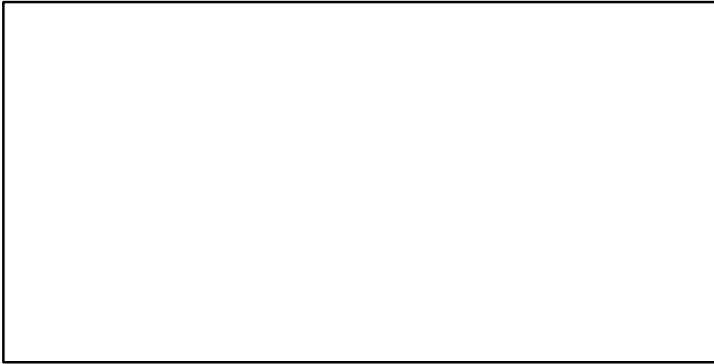
TB*



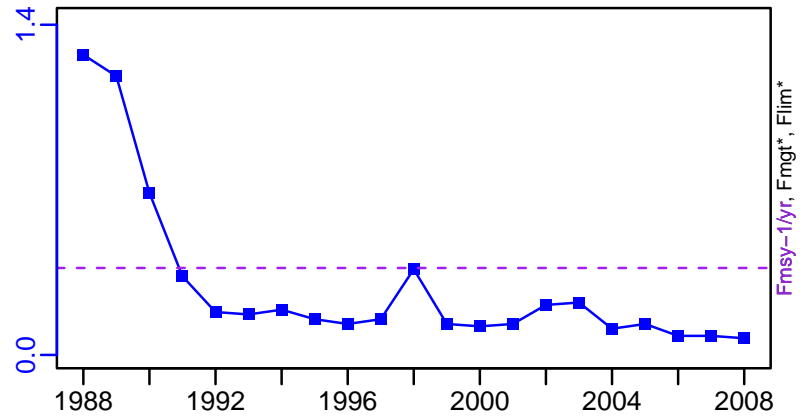
SSB-MT (1981-2008-HIVELY)



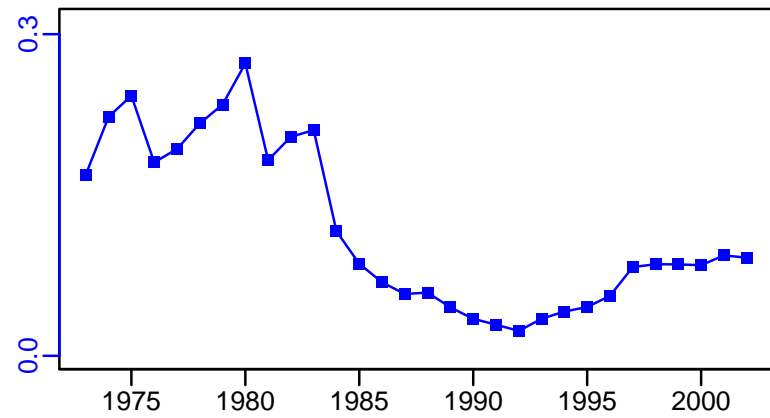
TN *



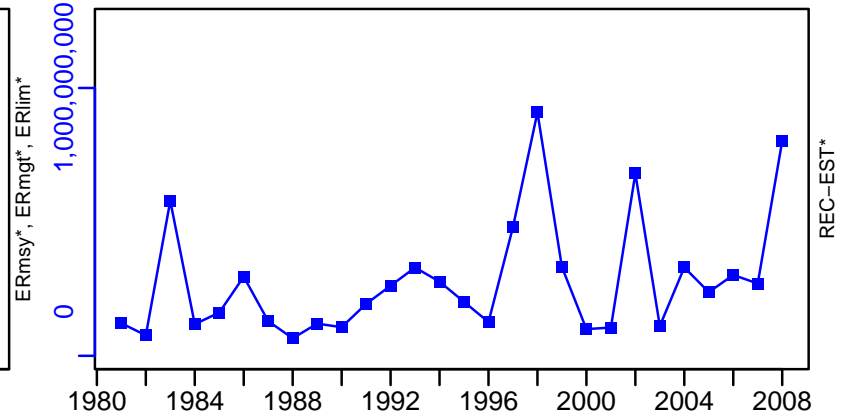
F-1/yr (1981-2008-HIVELY)



ER-ratio (1973-2002-STANTON)

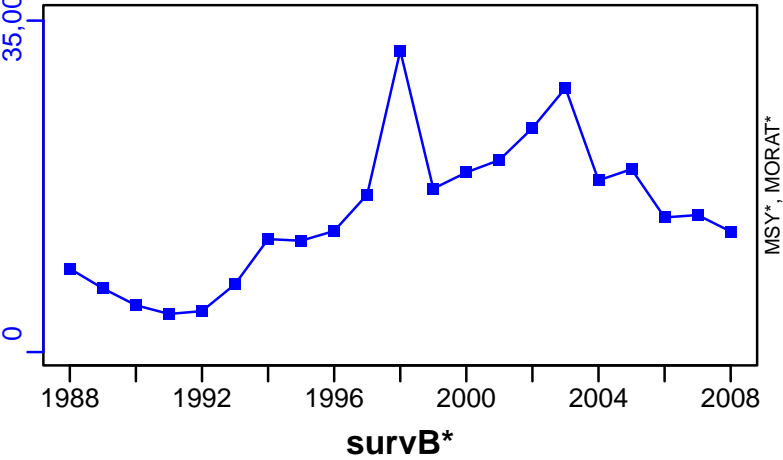


R-E00 (1981-2008-HIVELY)



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

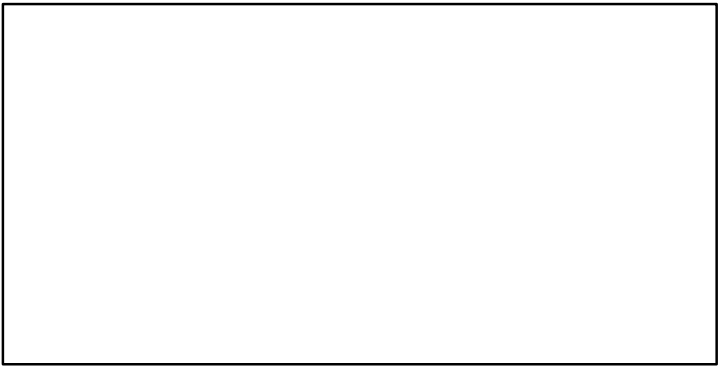
TL-MT, TC*, RecC* (1981-2008-HIVELY)



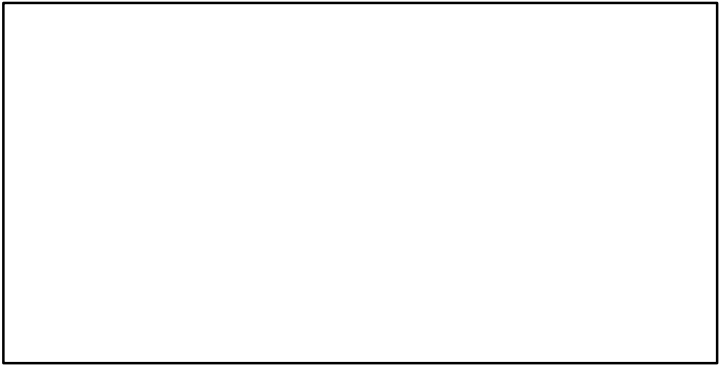
TAC*, Cpair*, Cadv*



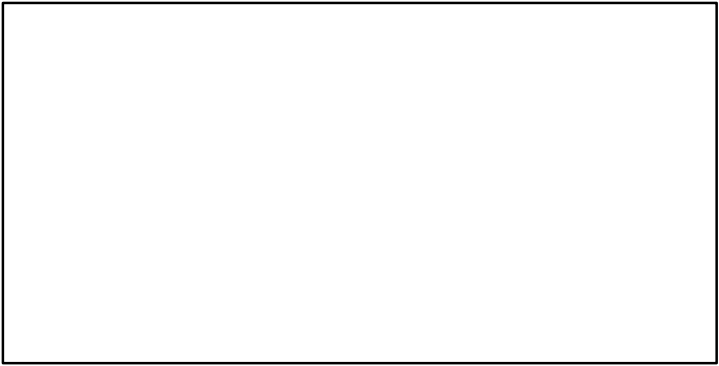
CPUE*



EFFORT*



CdivMSY*



Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

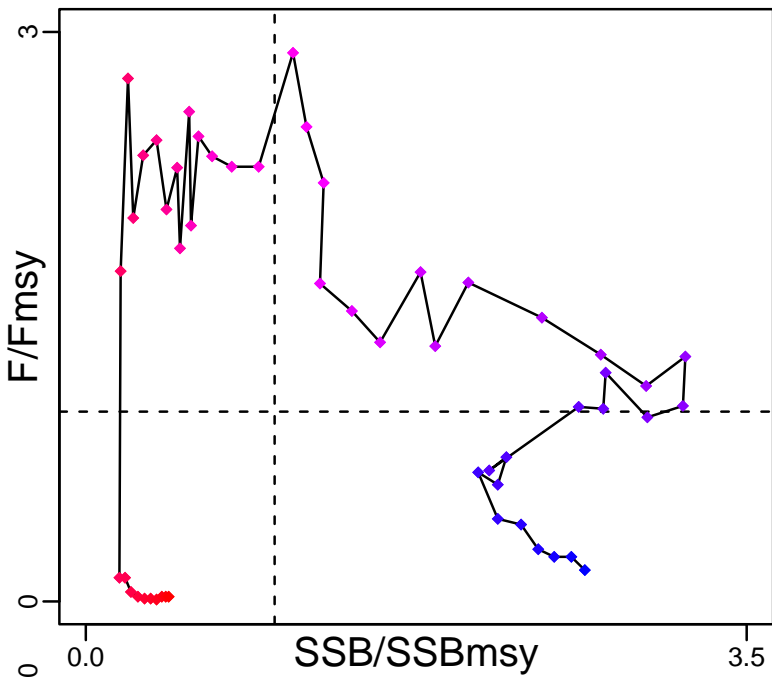
Metadata	
Scientific Name	Anarhichas lupus
Current Assess ID	NEFSC-AWOLF5YZ-1968-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	1540
Fmsy	Fmsy-1/yr	2019	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	218
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	772
Flim	Flim-1/yr	2019	0.2
ERlim	-	-	-

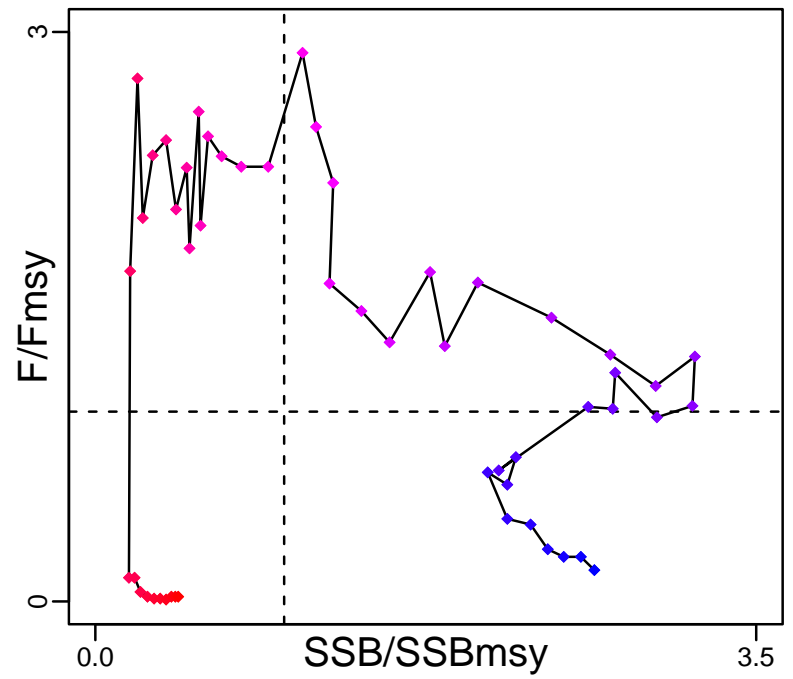
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	676	-	-
TN	-	-	-	-	-
R	R-E00	2019	2.8×10^8	-	0
F	F-1/yr	2019	0.005	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	2.76		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.439		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.025		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

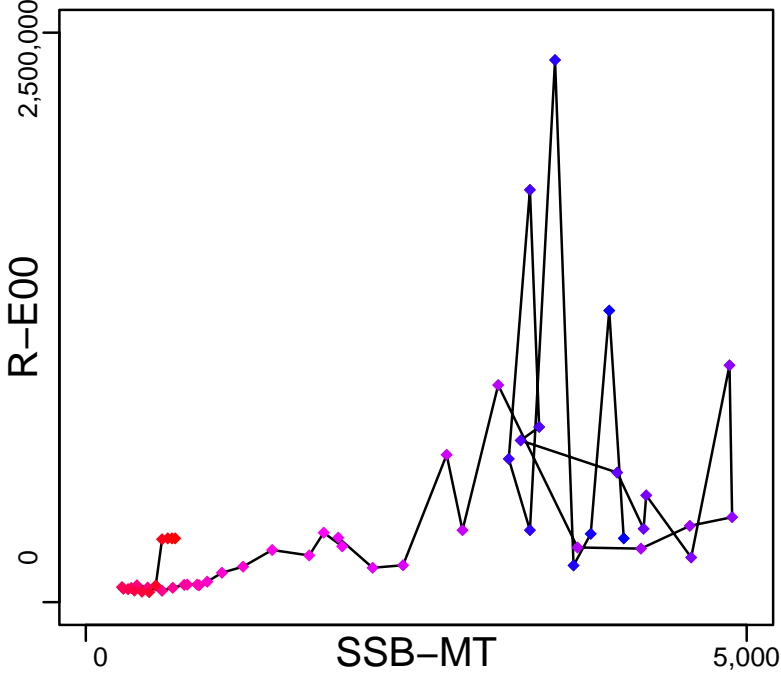
Kobe MSYpref (1968–2019–SISIMP2021–2)



Kobe MGTpref (1968–2019–SISIMP2021–2)



Spawner Recruit (1968–2019–SISIMP2021–2)



Production*



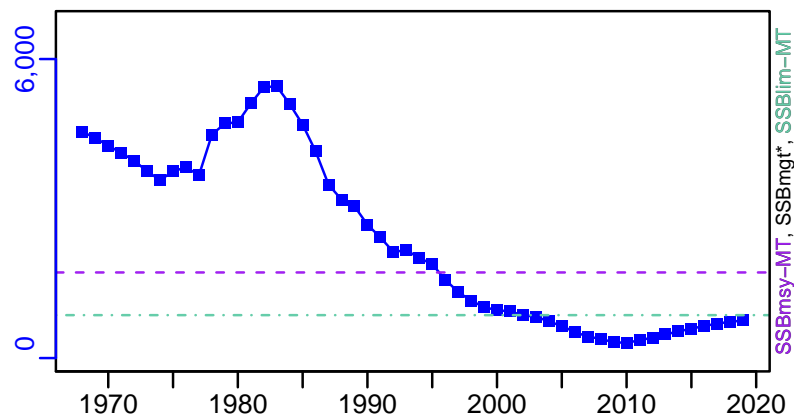
◆ Start Year ◆ End Year * No Data

Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

TB*



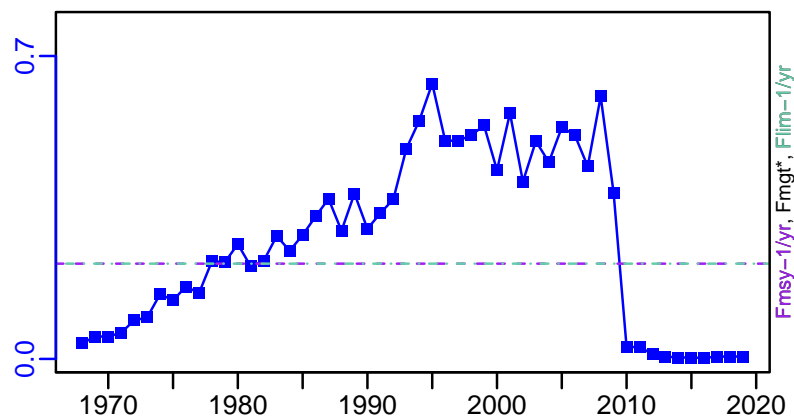
SSB-MT (1968–2019–SISIMP2021–2)



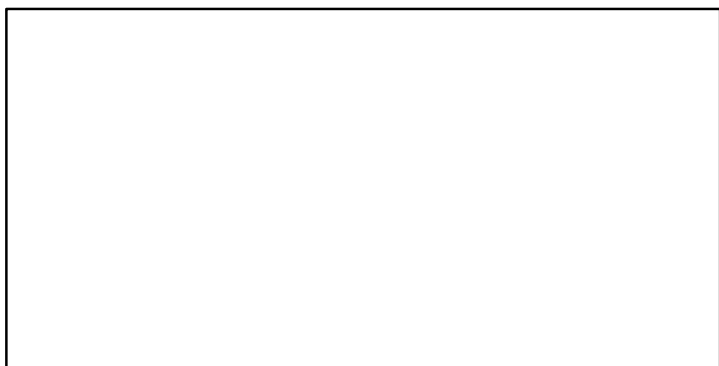
TN *



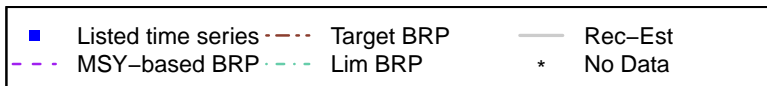
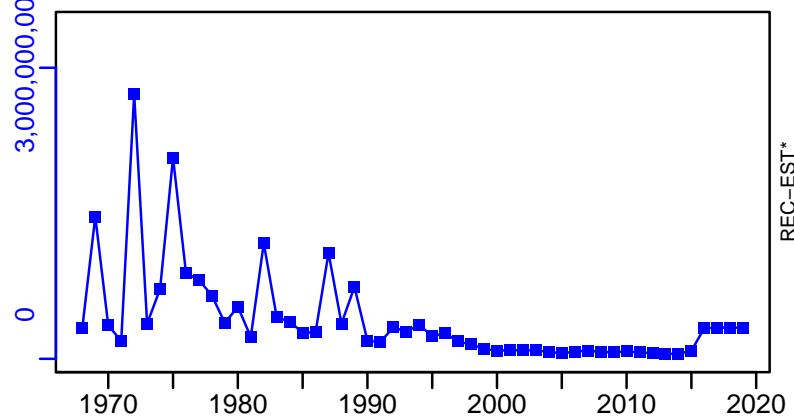
F-1/yr (1968–2019–SISIMP2021–2)



ER*



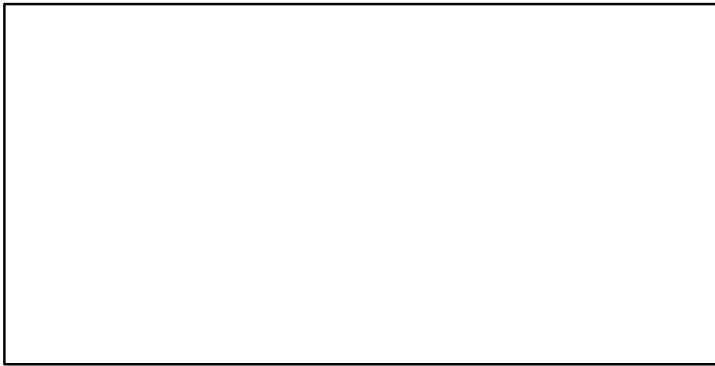
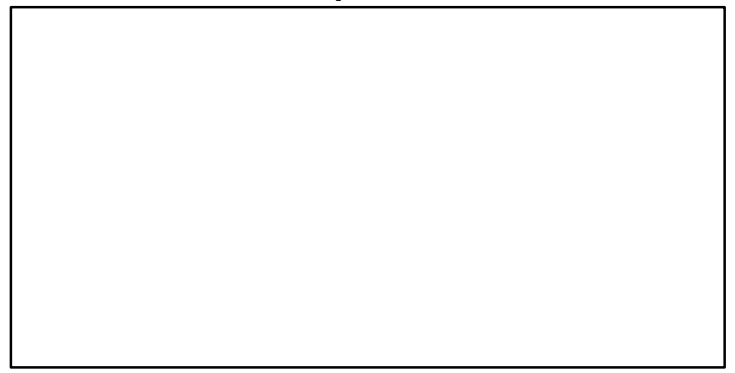
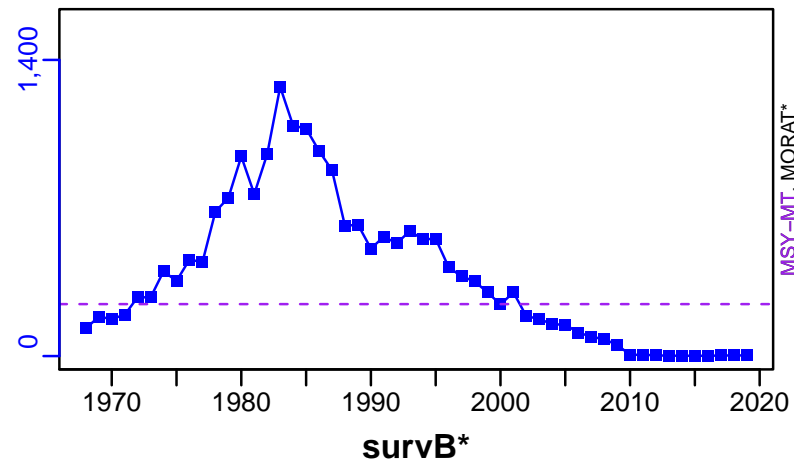
R-E00 (1968–2019–SISIMP2021–2)



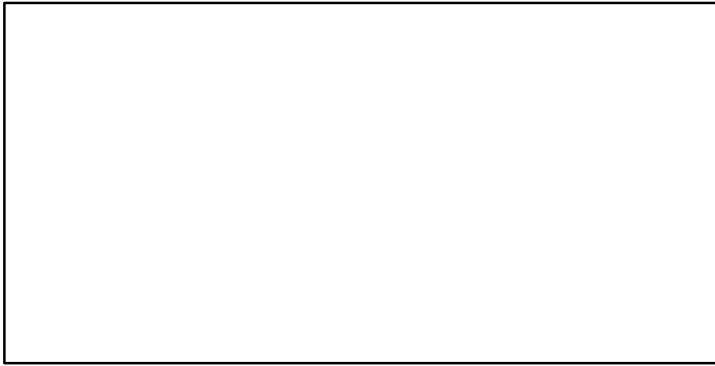
Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

TC-MT, TL*, RecC* (1968-2019-SISIMP2021-2)

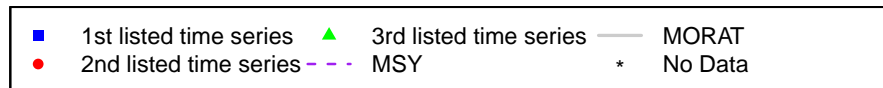
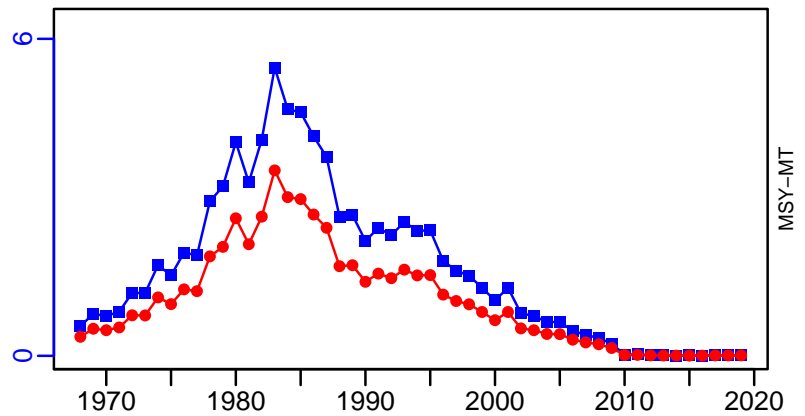
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1968-2019-SISIMP2021-2)



Blue crab Chesapeake Bay [BCRABCHESB]

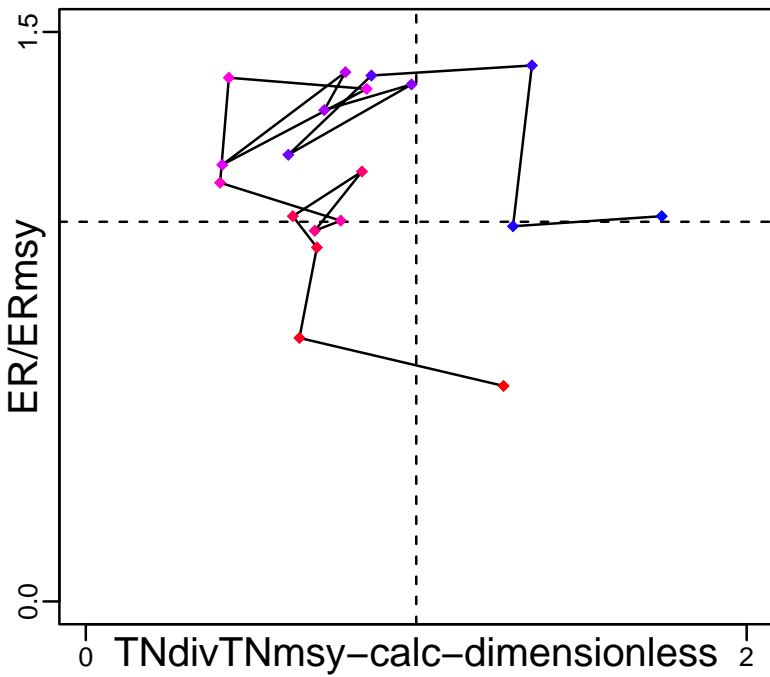
Metadata	
Scientific Name	Callinectes sapidus
Current Assess ID	CBP-BCRABCHESB-1990-2010-HIVELY
Area	Chesapeake Bay
Management Authority	State of Maryland
Assessor	Chesapeake Bay Program
Asmts in RAM	2010

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2010	0.34
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2010	1.77×10^8	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2010	0.193	-	-
TC	TC-E00	2010	1.69×10^8		
TL	TL-MT	2010	24,400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2010	0.568		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

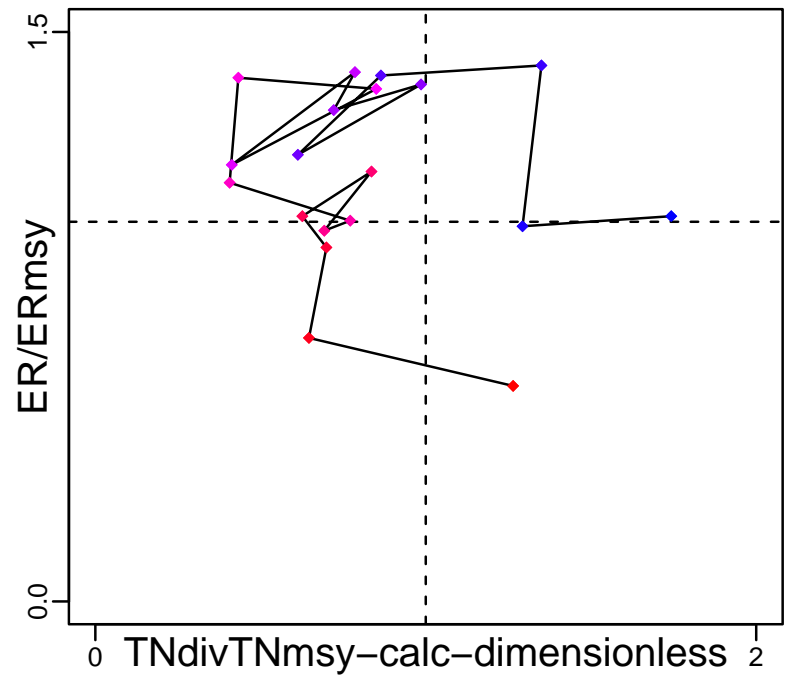
Blue crab Chesapeake Bay [BCRABCHESB]

Kobe MSYpref (1990–2010–HIVELY)



Spawner Recruit*

Kobe MGTpref (1990–2010–HIVELY)



Production*

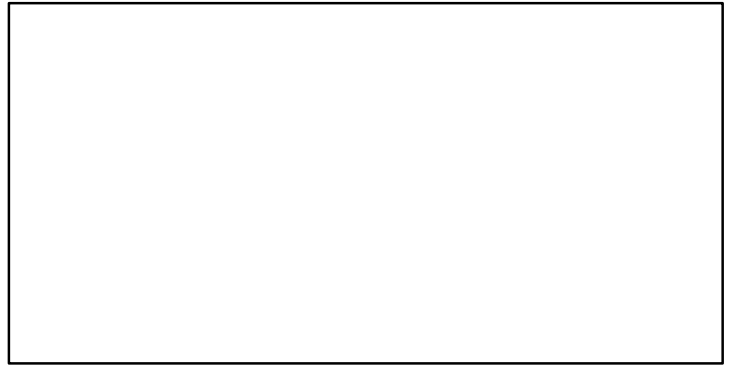
◆ Start Year ◆ End Year * No Data

Blue crab Chesapeake Bay [BCRABCHESB]

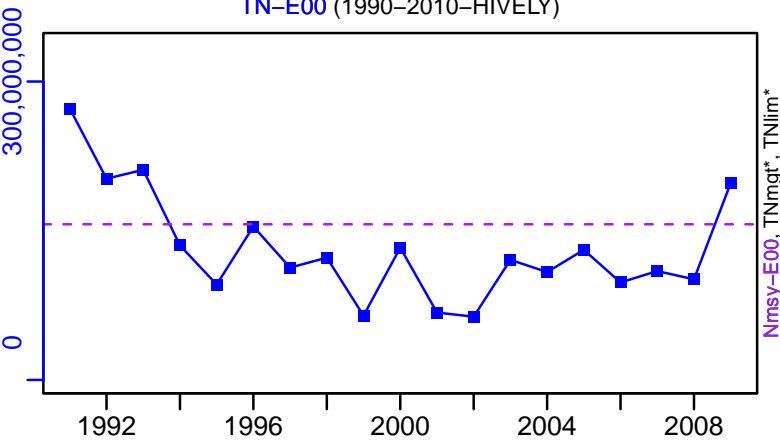
TB*



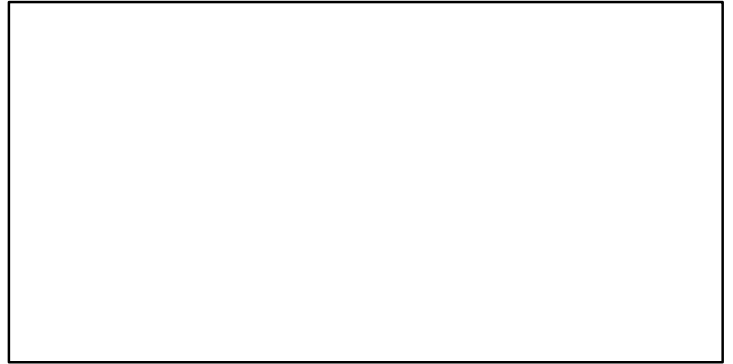
SSB*



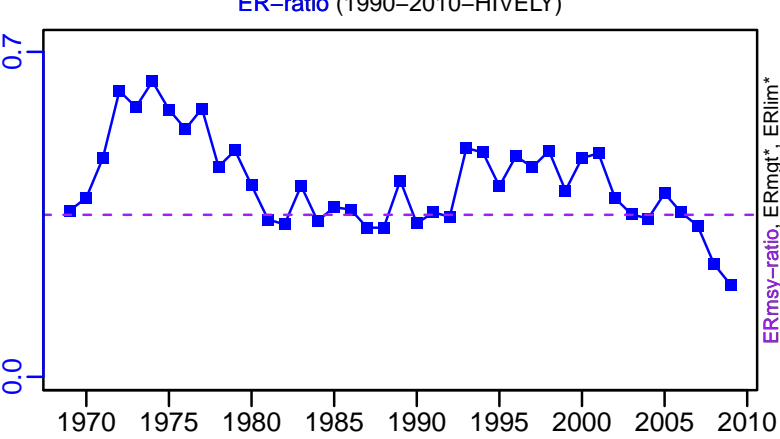
TN-E00 (1990-2010-HIVELY)



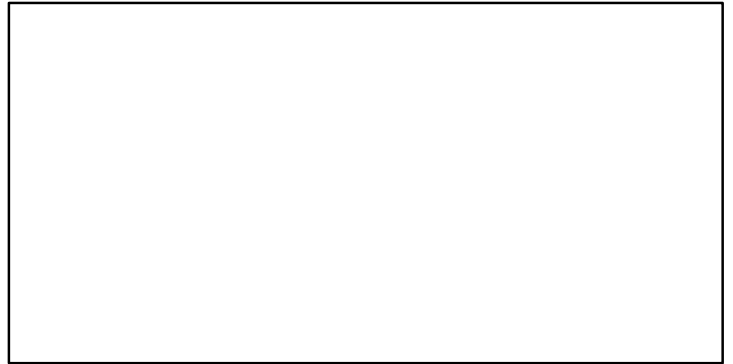
F*



ER-ratio (1990-2010-HIVELY)



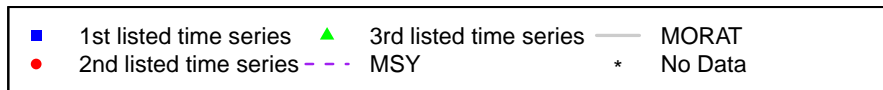
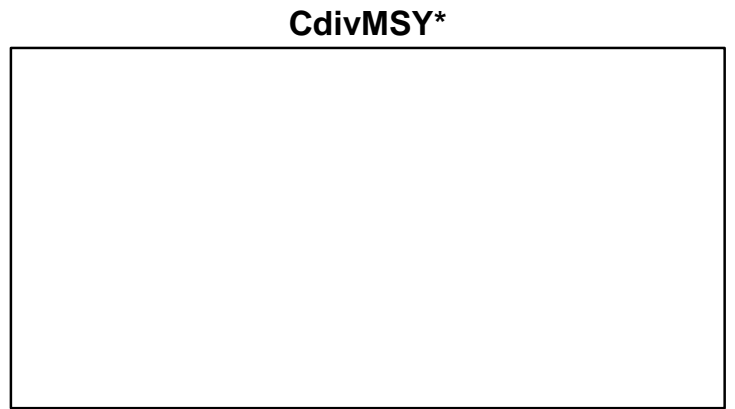
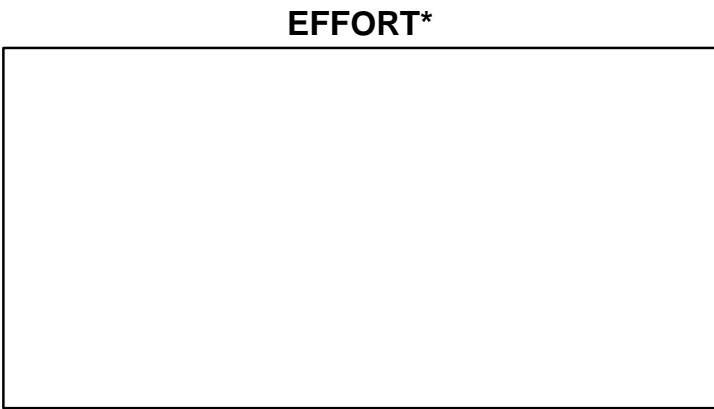
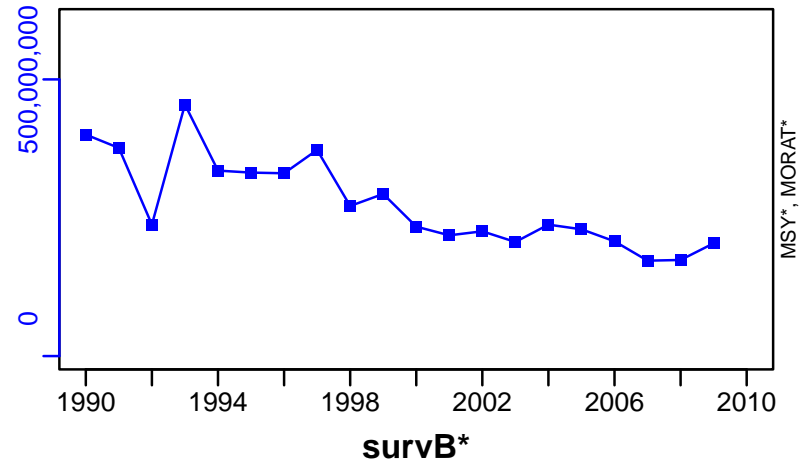
Recruits*



Blue crab Chesapeake Bay [BCRABCHESB]

TC-E00, TL*, RecC* (1990-2010-HIVELY)

TAC*, Cpair*, Cadv*



Bluefish Atlantic Coast [BLUEFISHATLC]

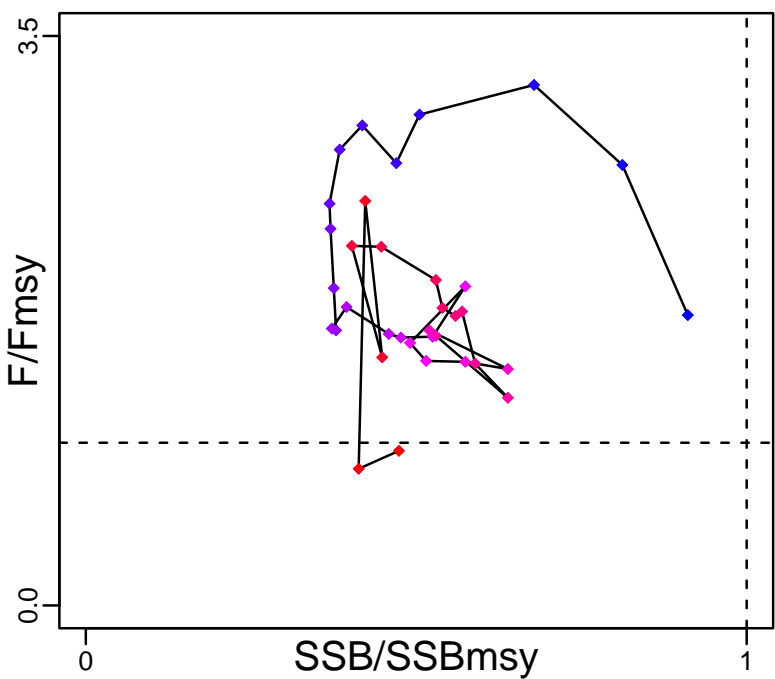
Metadata	
Scientific Name	Pomatomus saltatrix
Current Assess ID	NEFSC-BLUEFISHATLC-1985-2019-SISIMP2021-2
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	147,052
SSBmsy	SSBmsy-MT	2019	202,000
Fmsy	Fmsy-1/yr	2019	0.181
ERmsy	ERmsy-ratio	2007	0.106
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	25,500
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	101,000
Flim	Flim-1/yr	2019	0.181
ERlim	-	-	-

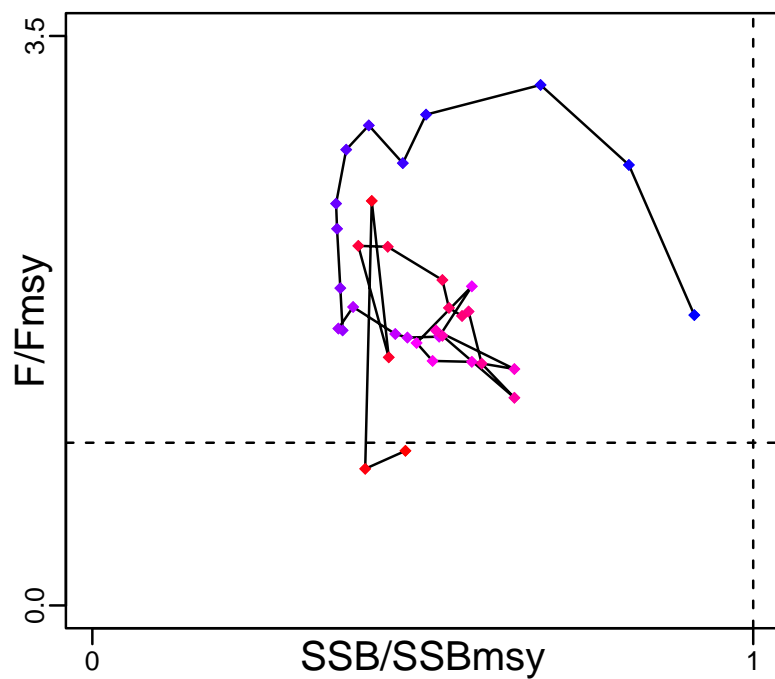
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	94,300	-	-
SSB	SSB-MT	2019	95,700	-	-
TN	-	-	-	-	-
R	R-E00	2019	27,900,000	-	0
F	F-1/yr	2019	0.172	-	-
ER	ER-calc-ratio	2014	0.104	-	-
TC	TC-MT	2019	15,000		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2007	1.047		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.474		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.95		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.954		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Bluefish Atlantic Coast [BLUEFISHATLC]

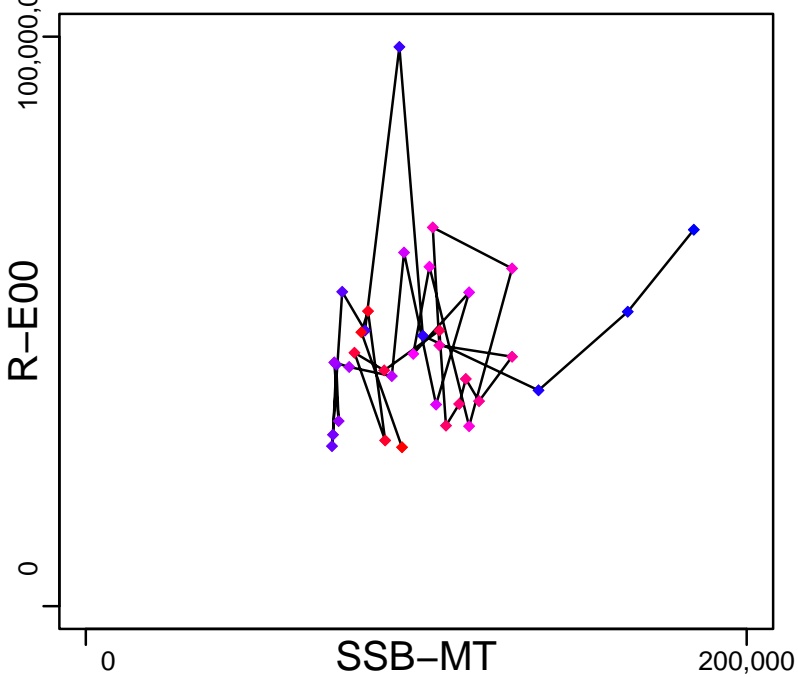
Kobe MSYpref (1985–2019–SISIMP2021–2)



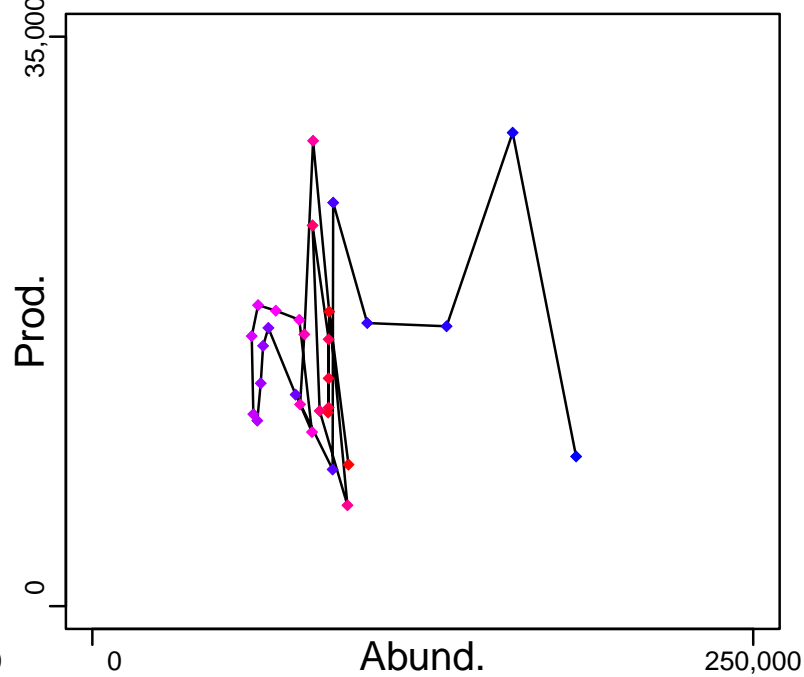
Kobe MGTpref (1985–2019–SISIMP2021–2)



Spawner Recruit (1985–2019–SISIMP2021–2)



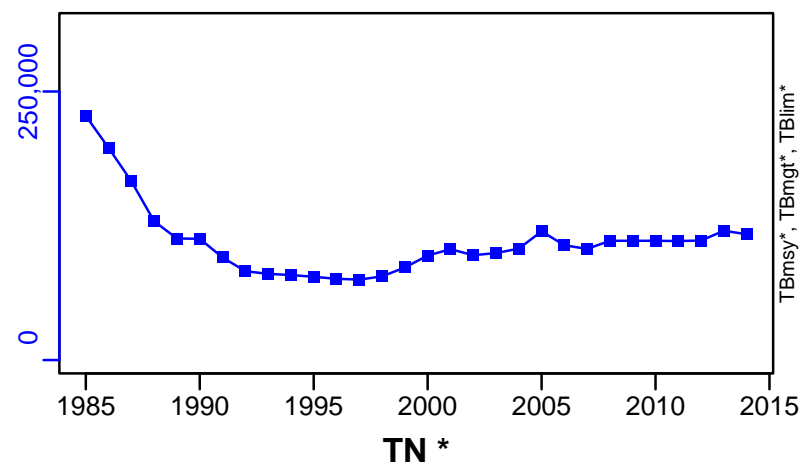
Production (1985–2014–SISIMP2016)



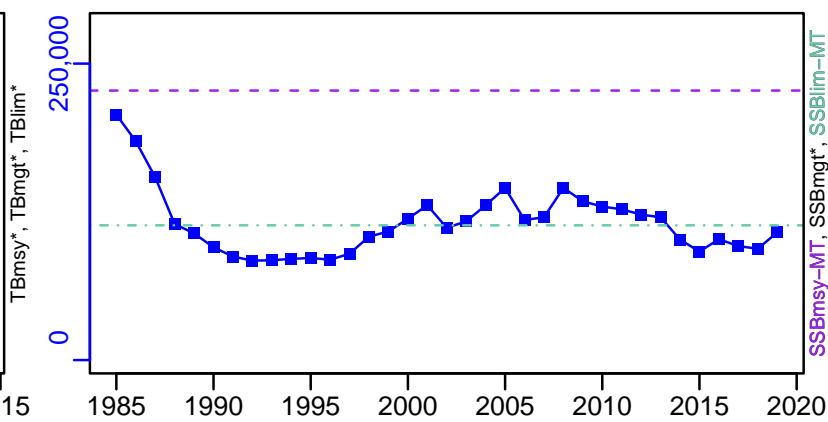
◆ Start Year ◆ End Year * No Data

Bluefish Atlantic Coast [BLUEFISHATLC]

TB-MT (1985–2014–SISIMP2016)



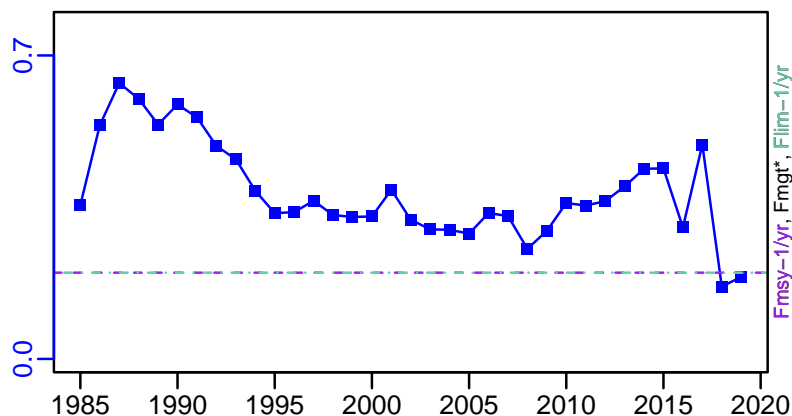
SSB-MT (1985–2019–SISIMP2021–2)



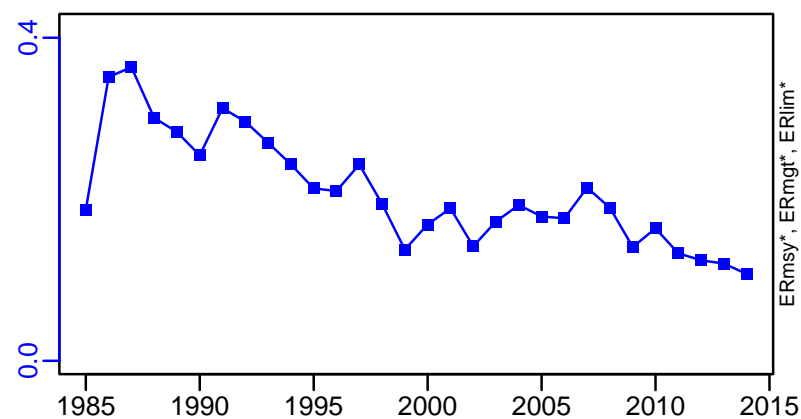
TN *



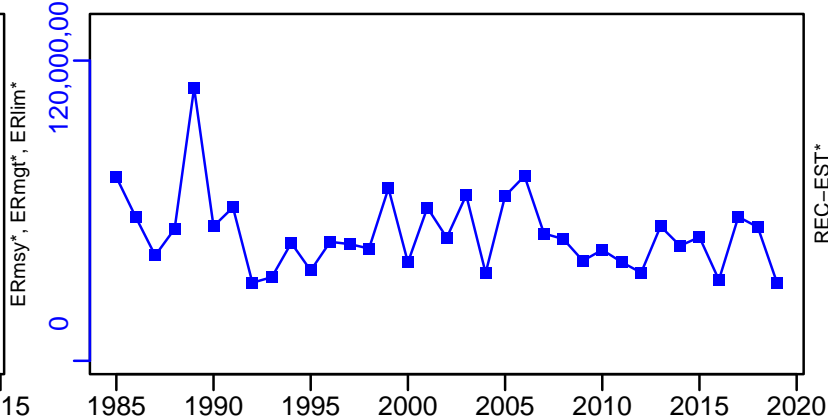
F-1/yr (1985–2019–SISIMP2021–2)



ER-calc-ratio (1985–2014–SISIMP2016)

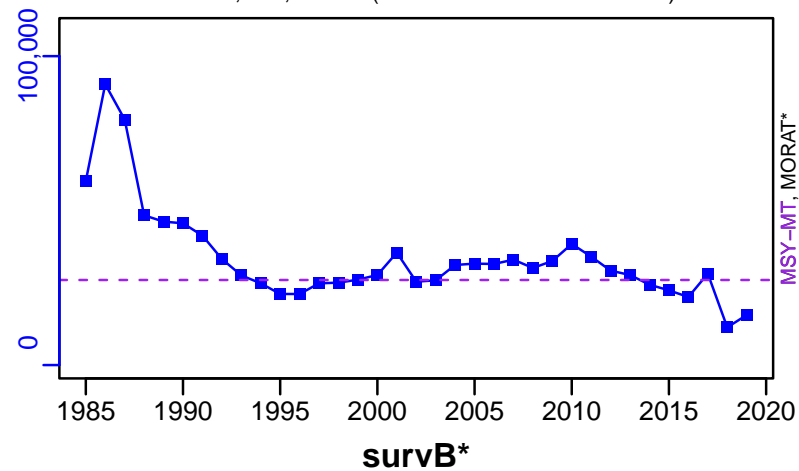


R-E00 (1985–2019–SISIMP2021–2)



Bluefish Atlantic Coast [BLUEFISHATLC]

TC-MT, TL*, RecC* (1985-2019-SISIMP2021-2)



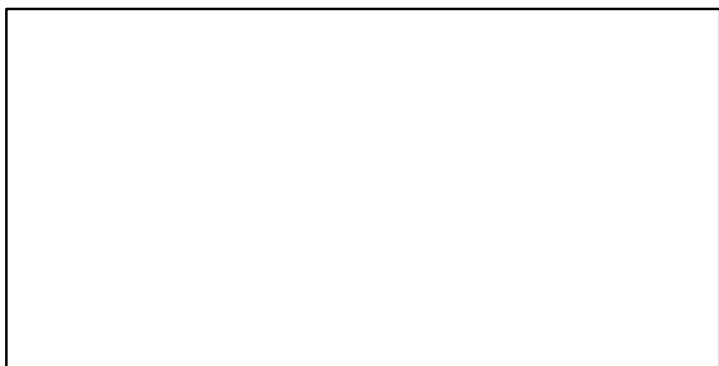
TAC*, Cpair*, Cadv*



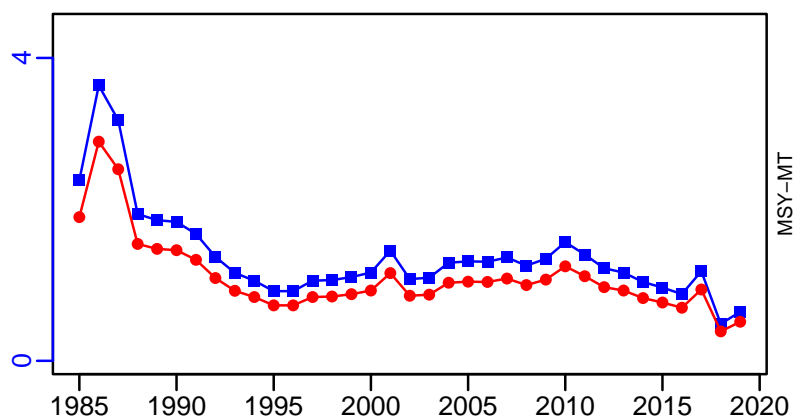
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985-2019-SISIMP2021-2)



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

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

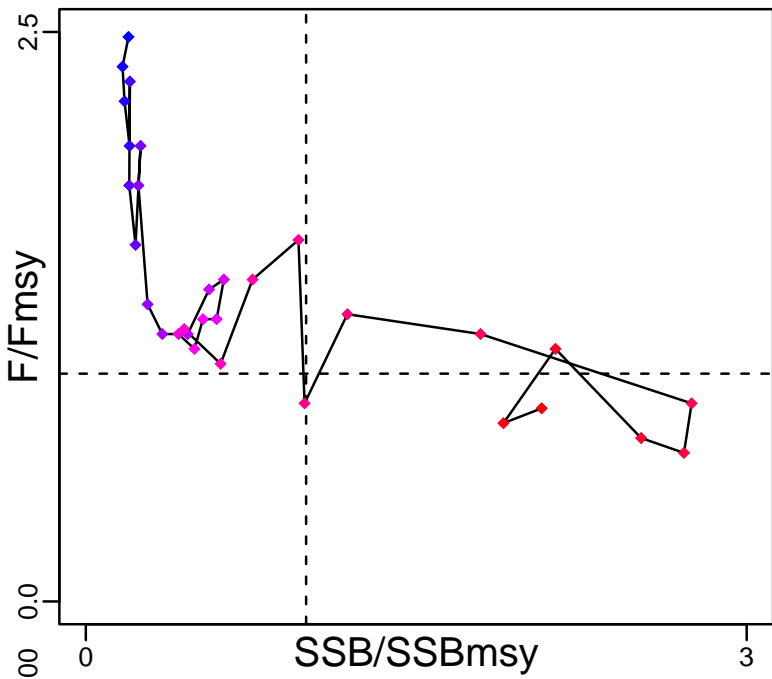
Metadata	
Scientific Name	Centropristis striata
Current Assess ID	NEFSC-BSBASSMATLC-1989-2019-SISIMP2021-2
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2015, 2007, 2011, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	17,256
SSBmsy	SSBmsy-MT	2019	14,400
Fmsy	Fmsy-1/yr	2019	0.46
ERmsy	ERmsy-calc-ratio	2015	0.179
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	5330
M	M-1/yr	2015	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	7220
Flim	Flim-1/yr	2019	0.46
ERlim	-	-	-

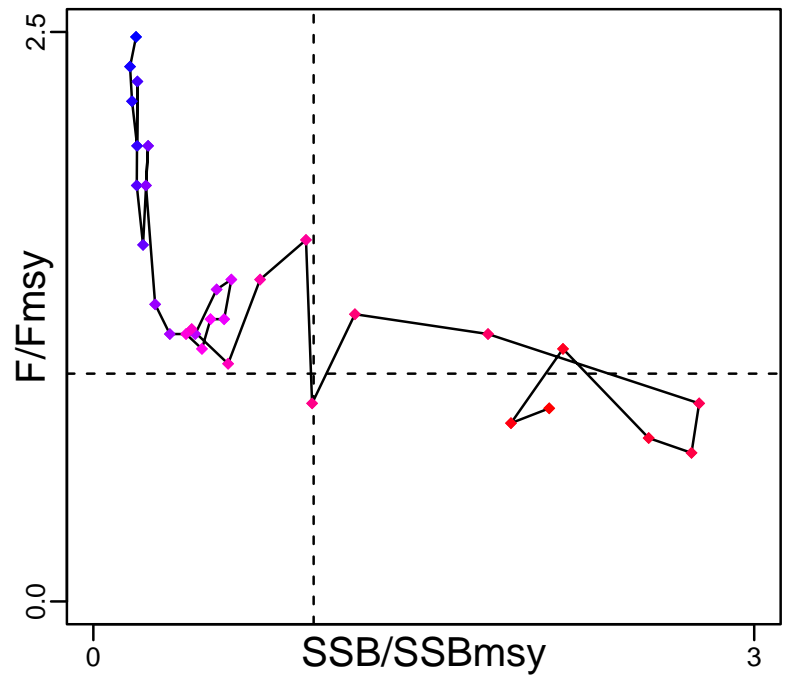
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	16,850	Both	-
SSB	SSB-MT	2019	29,800	-	-
TN	TN-E00	2015	70,334,820	Both	-
R	R-E00	2019	4.62×10^{10}	-	1
F	F-1/yr	2019	0.39	-	-
ER	ER-calc-ratio	2015	0.07	-	-
TC	TC-MT	2019	7990		
TL	TL-MT	2015	1183		
TB/TBmsy	TB-MT/TBmsy-MT	2015	0.976		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	2.069		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.848		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2015	0.391		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

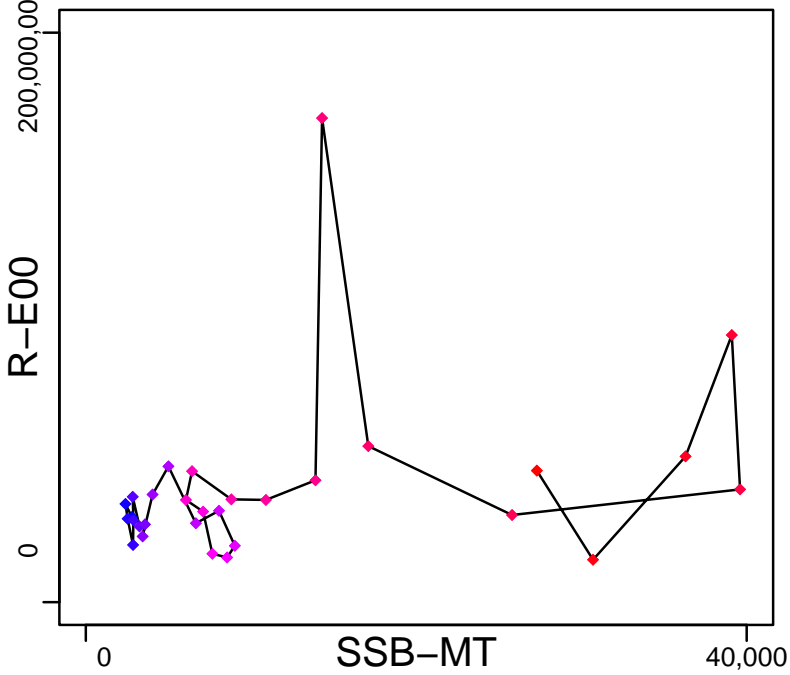
Kobe MSYpref (1989–2019–SISIMP2021–2)



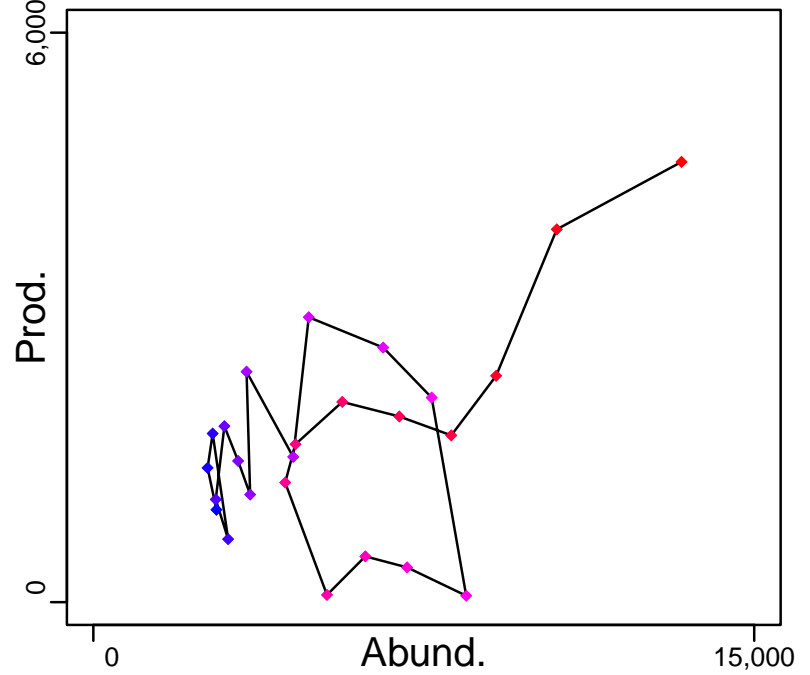
Kobe MGTpref (1989–2019–SISIMP2021–2)



Spawner Recruit (1989–2019–SISIMP2021–2)



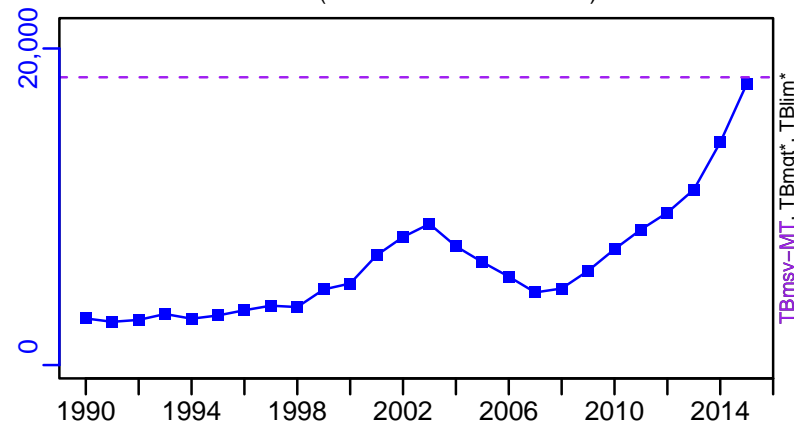
Production (1939–2015–ASHBROOK)



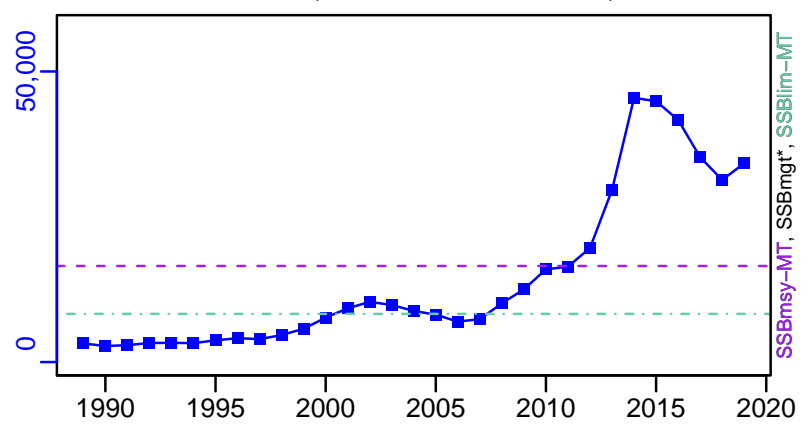
◆ Start Year ◆ End Year * No Data

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

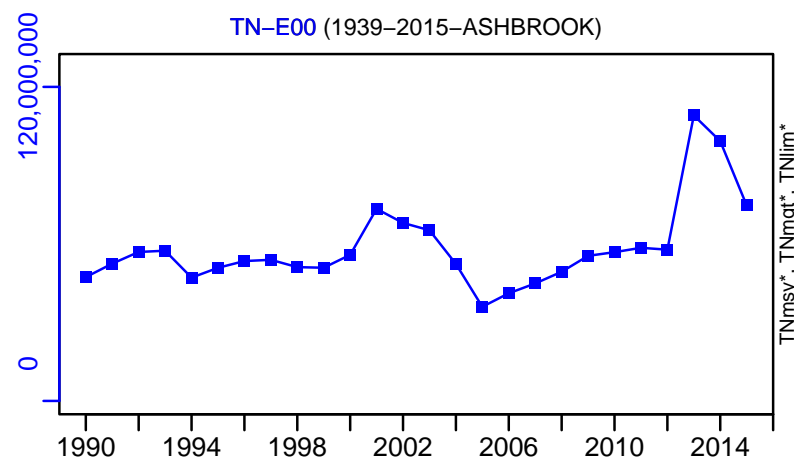
TB-MT (1939–2015–ASHBROOK)



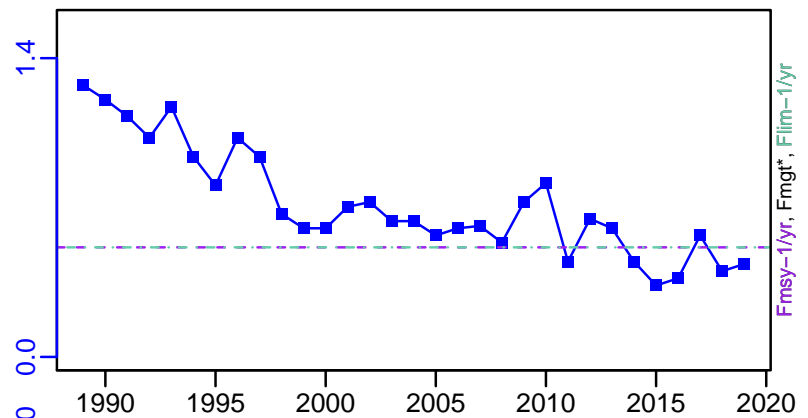
SSB-MT (1989–2019–SISIMP2021–2)



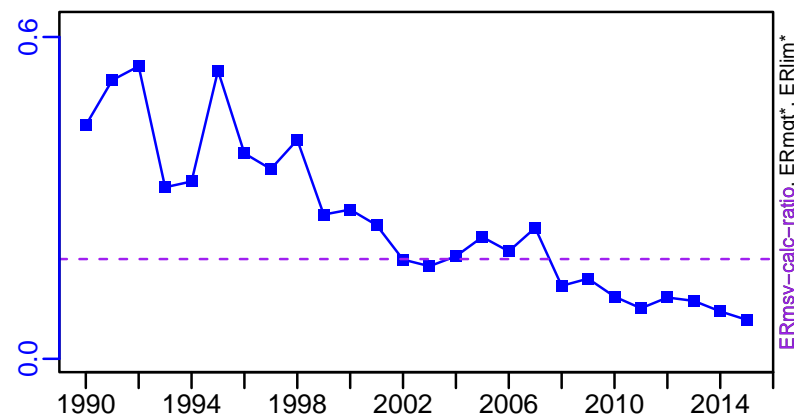
TN-E00 (1939–2015–ASHBROOK)



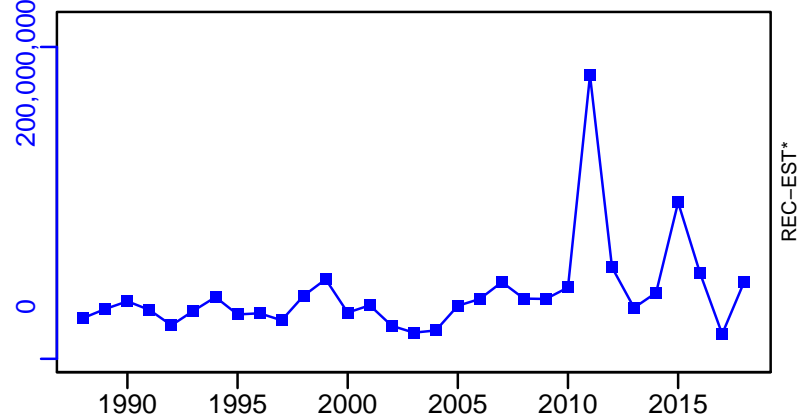
F-1/yr (1989–2019–SISIMP2021–2)



ER-calc-ratio (1939–2015–ASHBROOK)



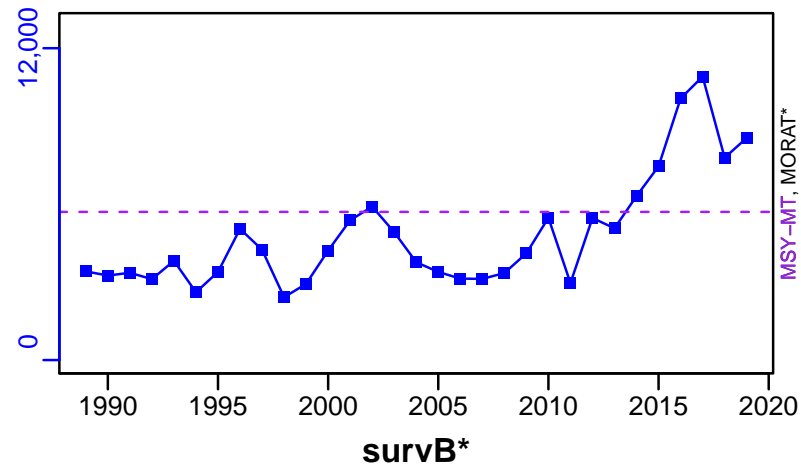
R-E00 (1989–2019–SISIMP2021–2)



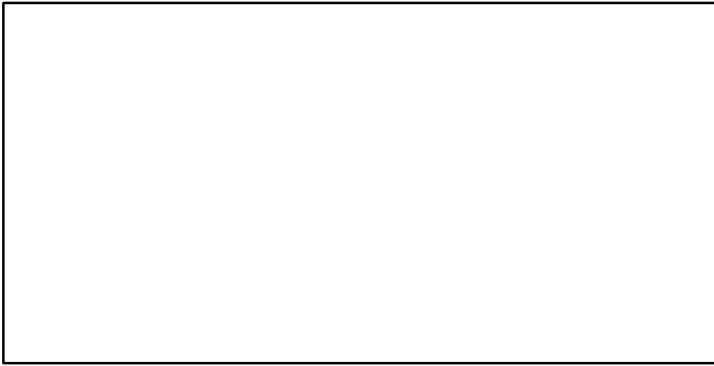
Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

TC-MT, TL*, RecC* (1989-2019-SISIMP2021-2)

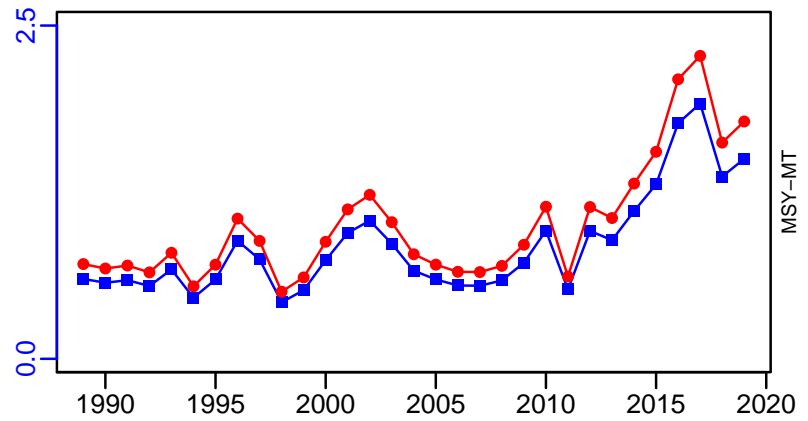
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1989-2019-SISIMP2021-2)



**Barndoor skate Gulf of Maine / Georges Bank-Southern New England
[BSKAT5YZSNE]**

Metadata	
Scientific Name	Dipturus laevis
Current Assess ID	NEFSC-BSKAT5YZSNE-1965-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank-Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005, 2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	1350		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

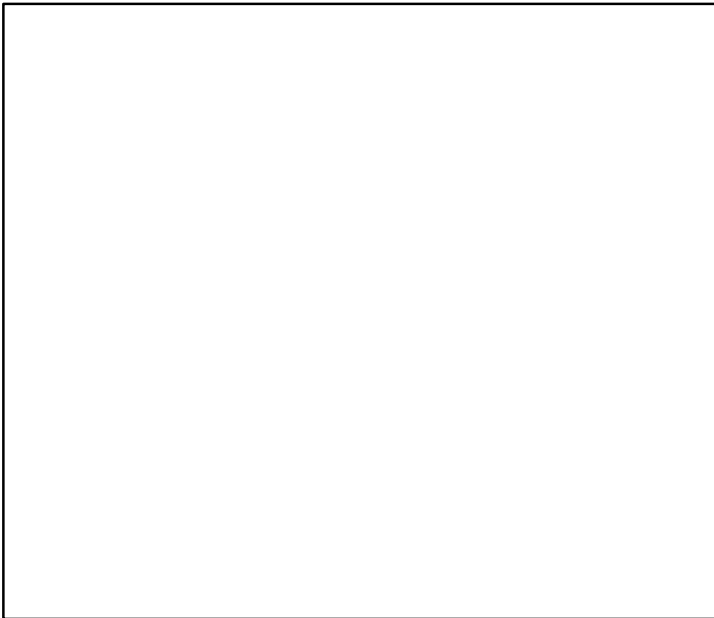
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

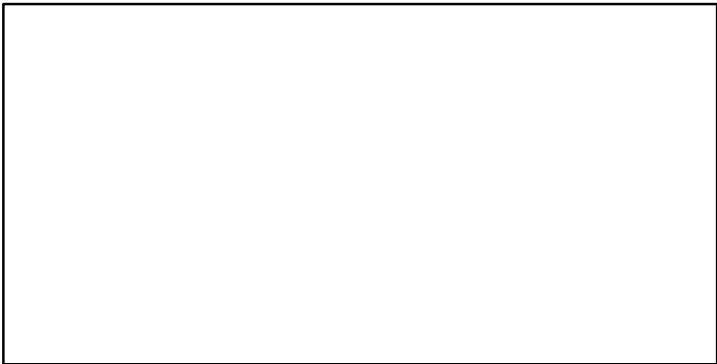
TB*



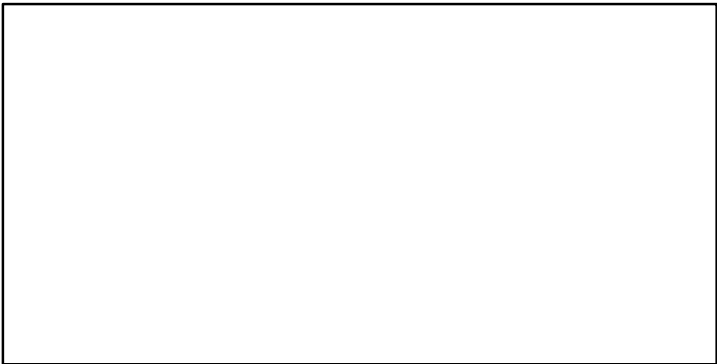
SSB*



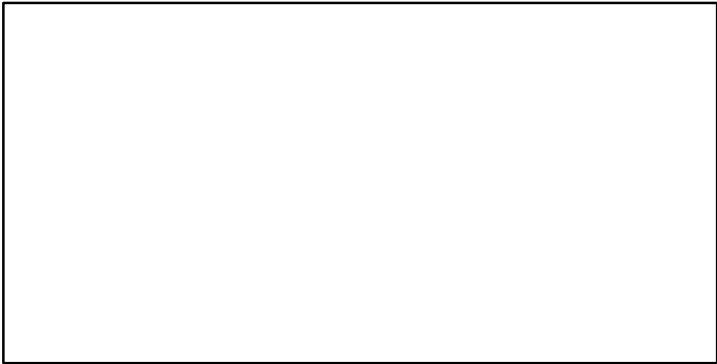
TN *



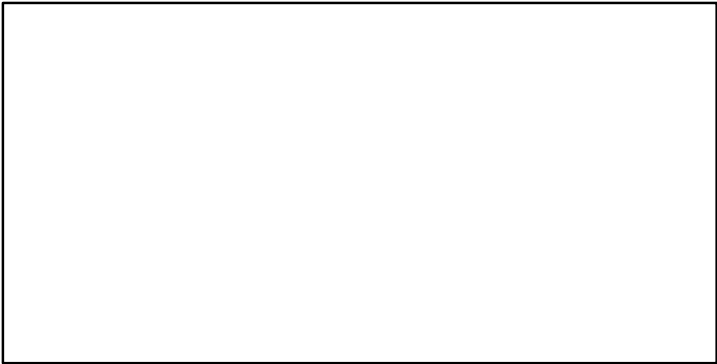
F*



ER*



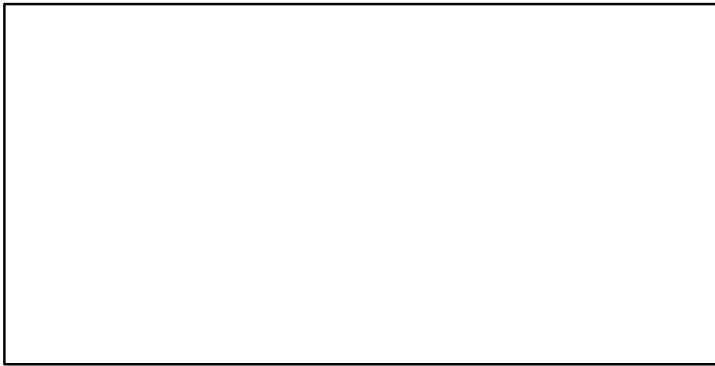
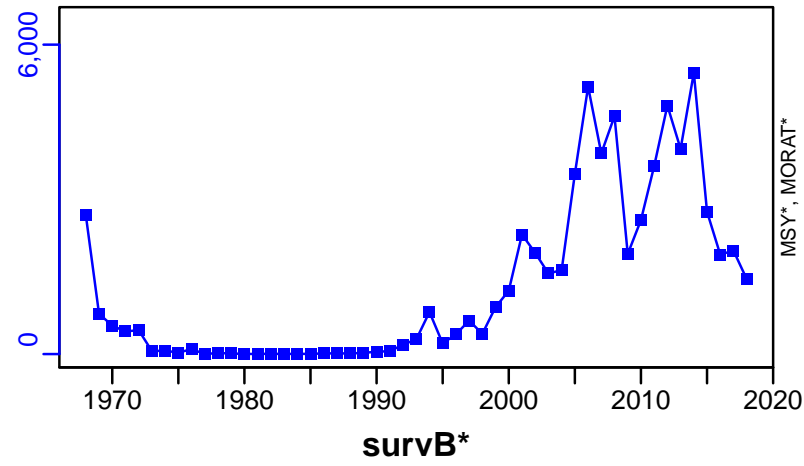
Recruits*



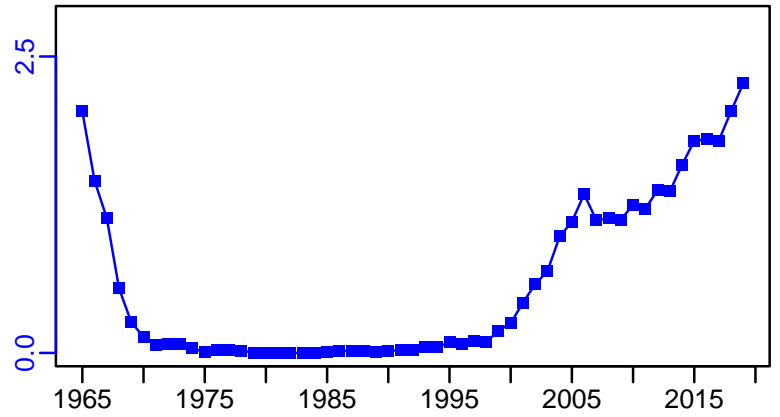
Barndoor skate Gulf of Maine / Georges Bank–Southern New England [BSKAT5YZSNE]

TC–MT, TL*, RecC* (1965–2019–SISIMP2021–2)

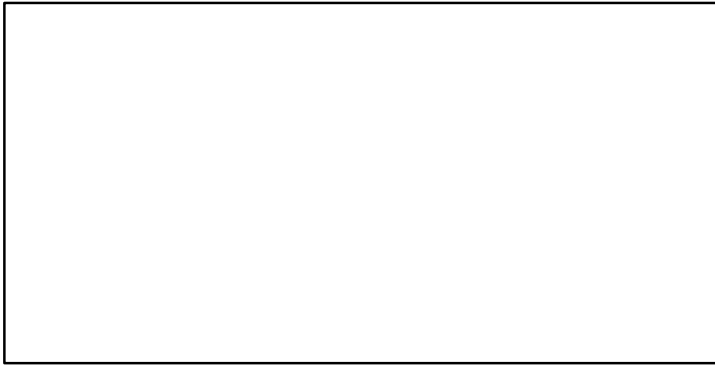
TAC*, Cpair*, Cadv*



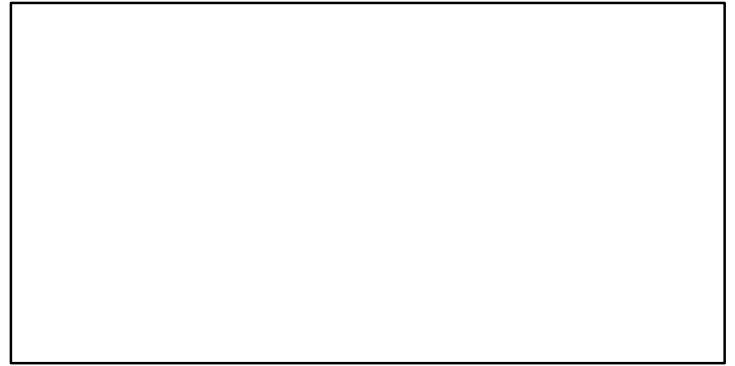
CPUE–index (1965–2019–SISIMP2021–2)



EFFORT*



CdivMSY*



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

Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

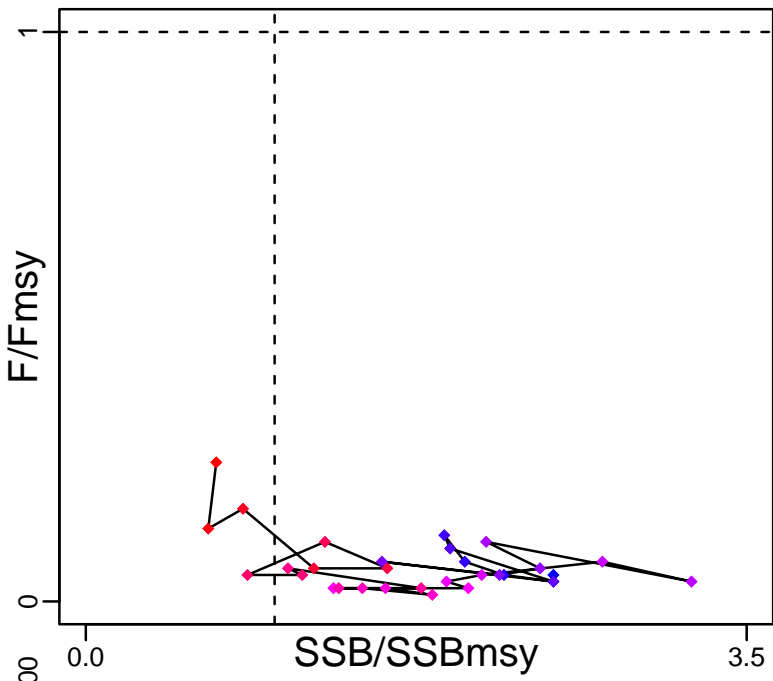
Metadata	
Scientific Name	<i>Peprilus triacanthus</i>
Current Assess ID	NEFSC-BUTTERGOMCHATT-1989-2019-SISIMP2021-2
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	42,400
Fmsy	Fmsy-1/yr	2019	0.86
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	36,199
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	21,200
Flim	Flim-1/yr	2019	0.86
ERlim	-	-	-

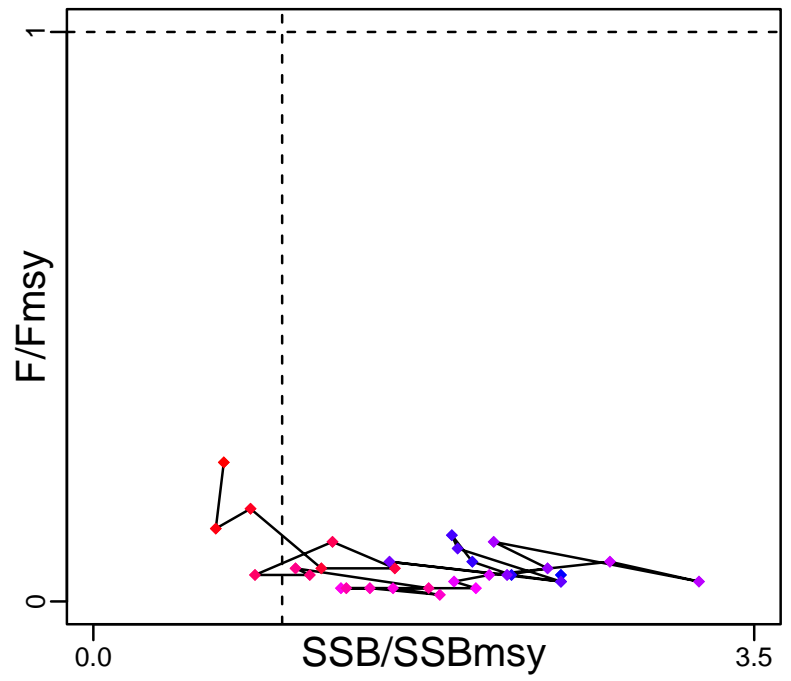
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	29,300	-	-
TN	-	-	-	-	-
R	R-E00	2019	2.93×10^9	-	0
F	F-1/yr	2019	0.21	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	5080		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.691		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.244		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

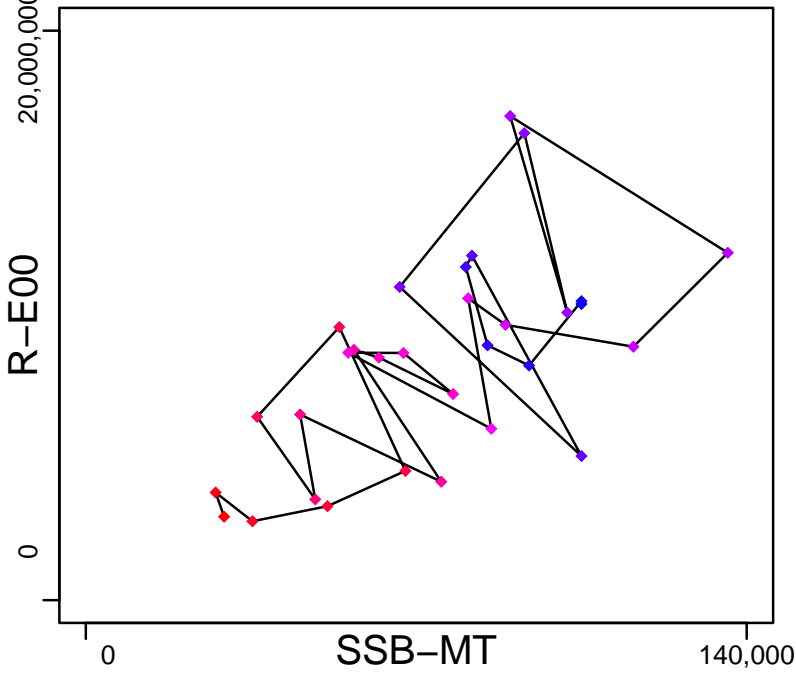
Kobe MSYpref (1989–2019–SISIMP2021–2)



Kobe MGTpref (1989–2019–SISIMP2021–2)



Spawner Recruit (1989–2019–SISIMP2021–2)



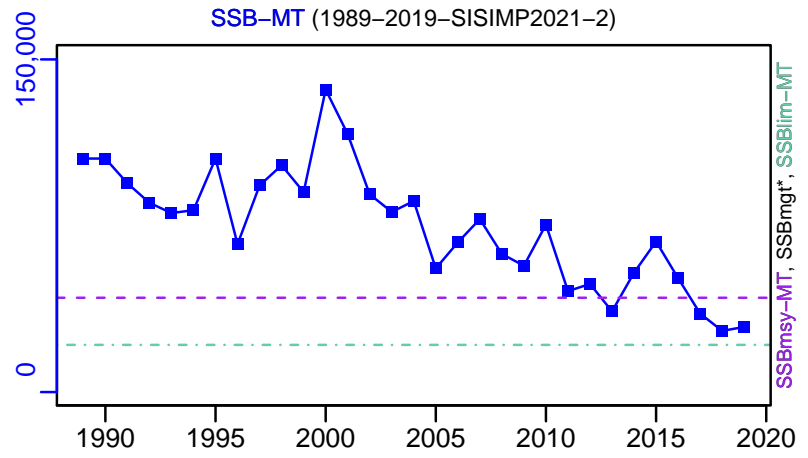
Production*



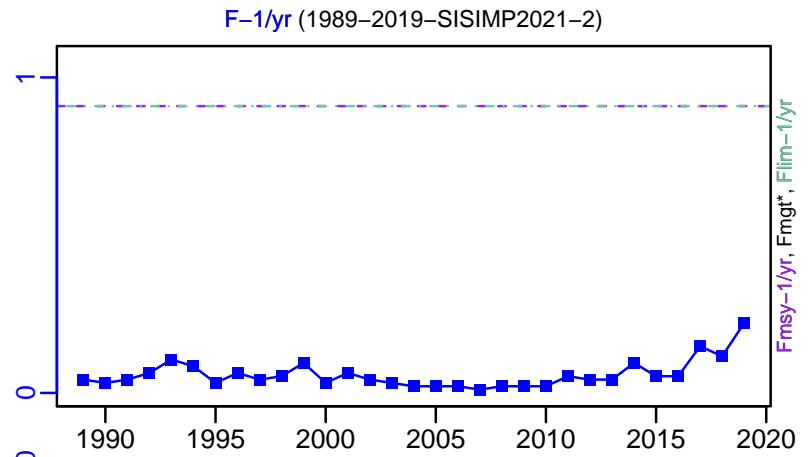
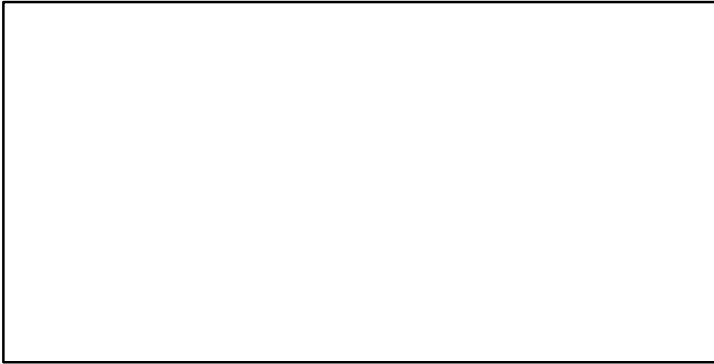
◆ Start Year ◆ End Year * No Data

Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

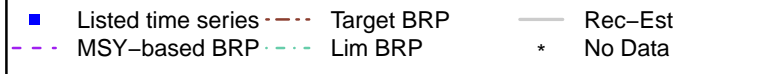
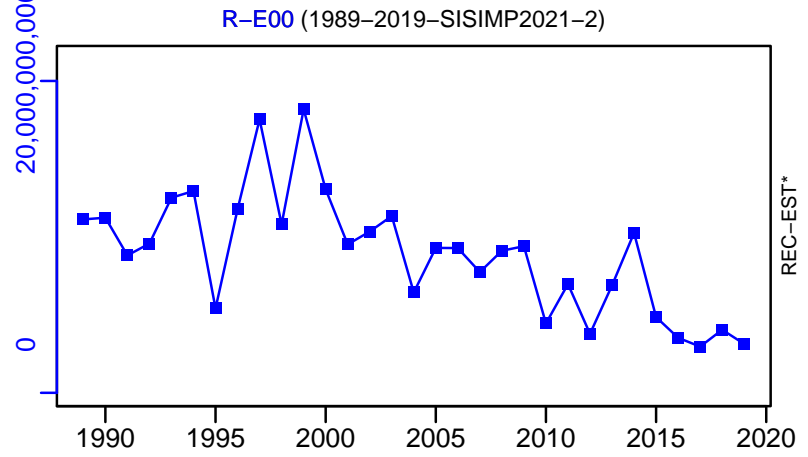
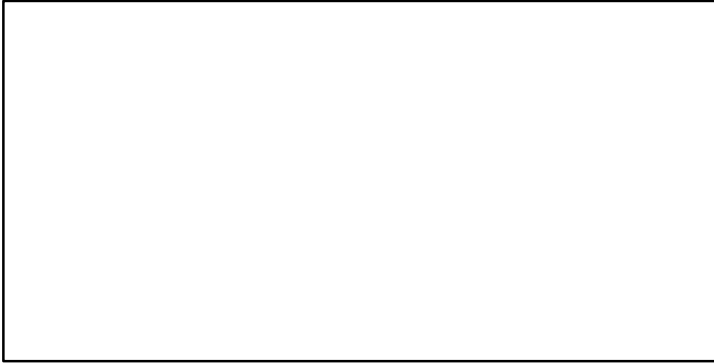
TB*



TN *

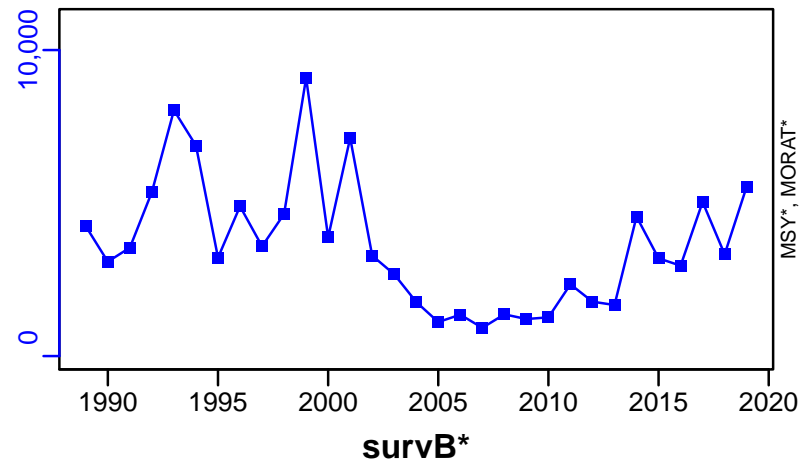


ER*



Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

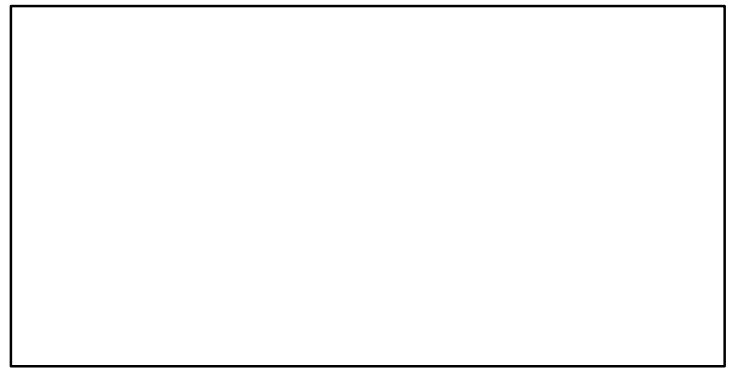
TC-MT, TL*, RecC* (1989-2019-SISIMP2021-2)



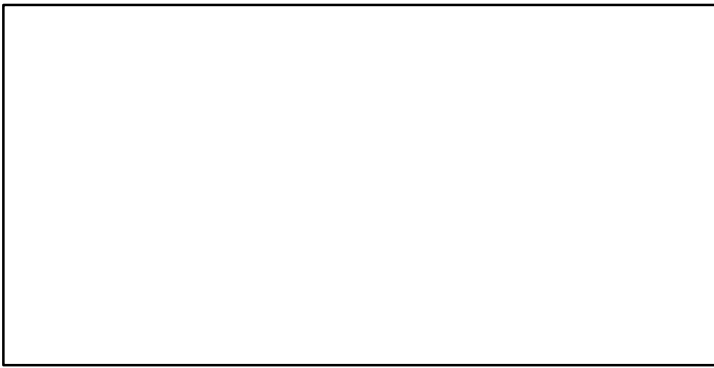
TAC*, Cpair*, Cadv*



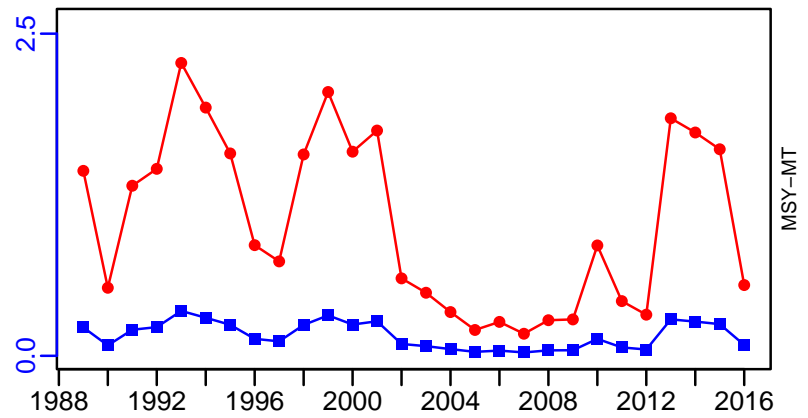
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1989-2016-SISIMP2021)



Atlantic cod Georges Bank [CODGB]

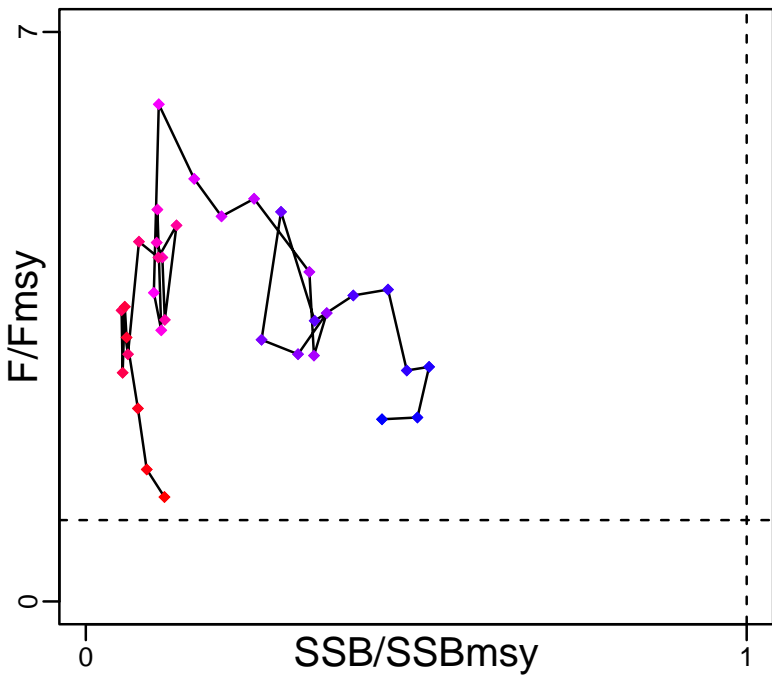
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGB-1981-2019-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2019, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2011	186,535
Fmsy	Fmsy-1/yr	2011	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2011	28,774
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

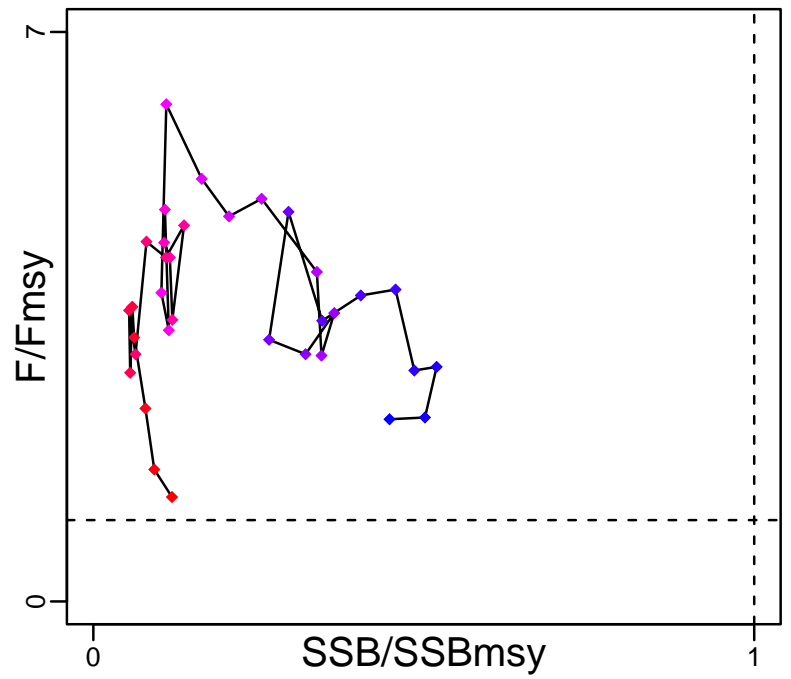
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	22,200	-	2.4+
TN	-	-	-	-	-
R	R-E00	2011	7,930,000	-	-
F	F-1/yr	2011	0.231	-	-
ER	ER-ratio	2019	0.119	-	-
TC	TC-MT	2019	1180		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.119		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	1.283		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Georges Bank [CODGB]

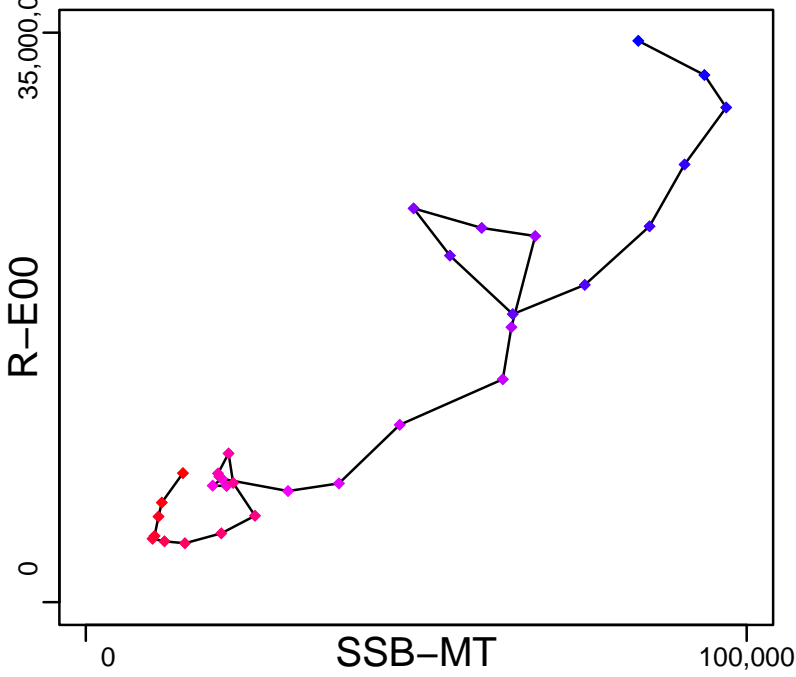
Kobe MSYpref (1976–2011–CHING)



Kobe MGTpref (1976–2011–CHING)



Spawner Recruit (1976–2011–CHING)



Production*



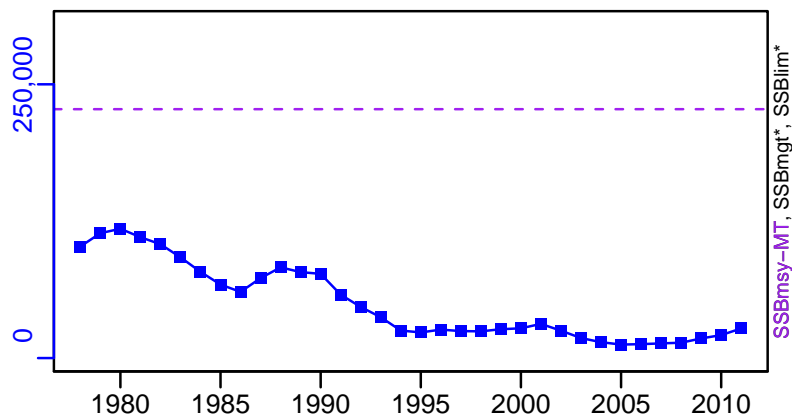
◆ Start Year ◆ End Year * No Data

Atlantic cod Georges Bank [CODGB]

TB*



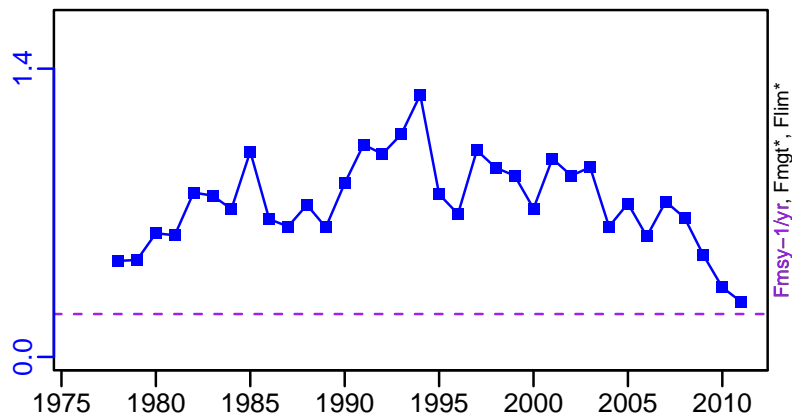
SSB-MT (1976–2011–CHING)



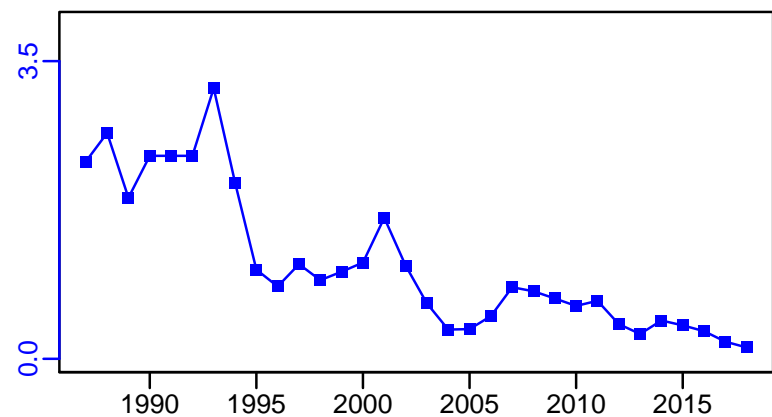
TN *



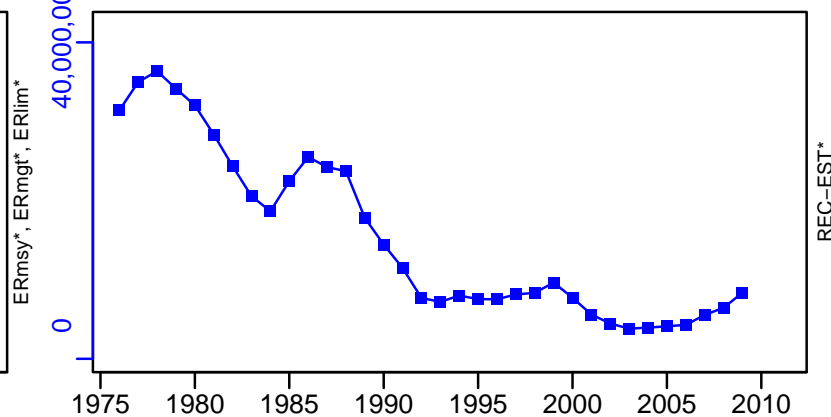
F-1/yr (1976–2011–CHING)



ER-ratio (1981–2019–SISIMP2021–2)



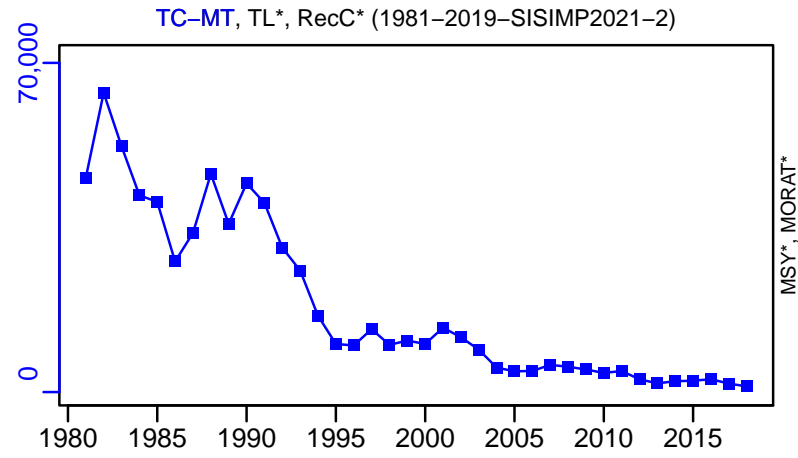
R-E00 (1976–2011–CHING)



Atlantic cod Georges Bank [CODGB]

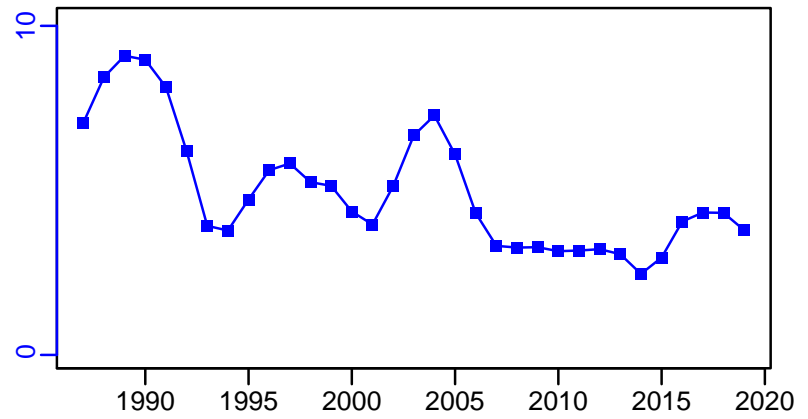
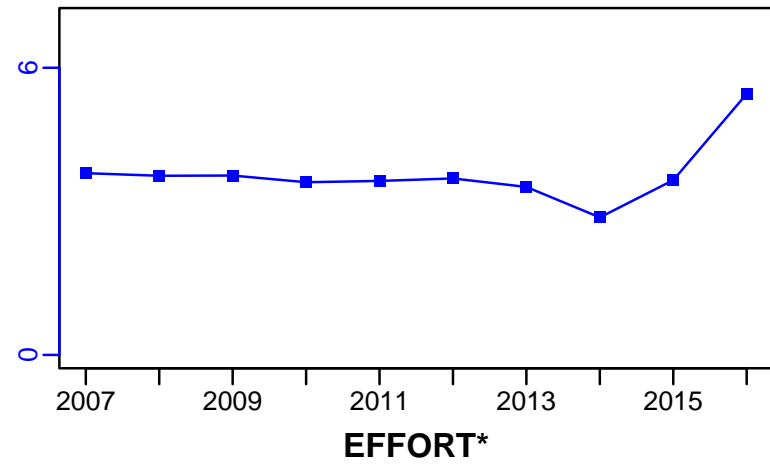
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

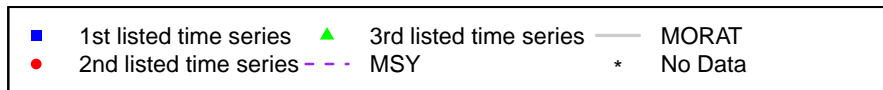
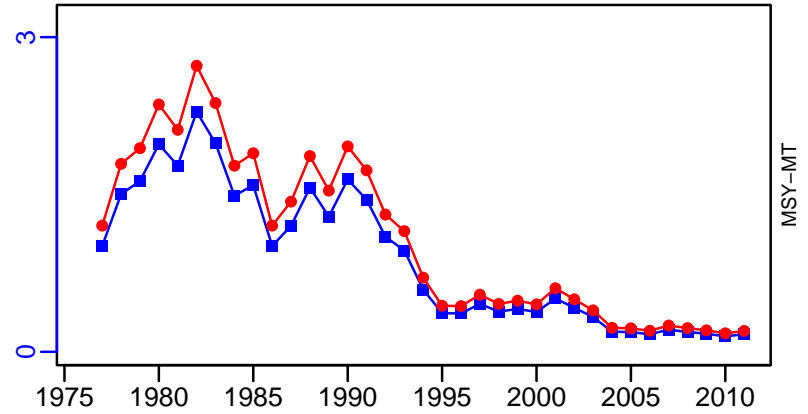
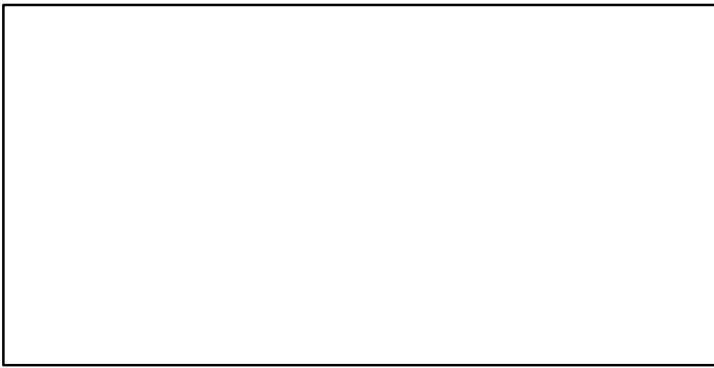


survB-index (2007-2016-SISIMP2021)

CPUE-index (1981-2019-SISIMP2021-2)



TC-MT/MSY-MT, CdivMEANC-ratio, (1976-2011-CHING)



Atlantic cod Gulf of Maine [CODGOM]

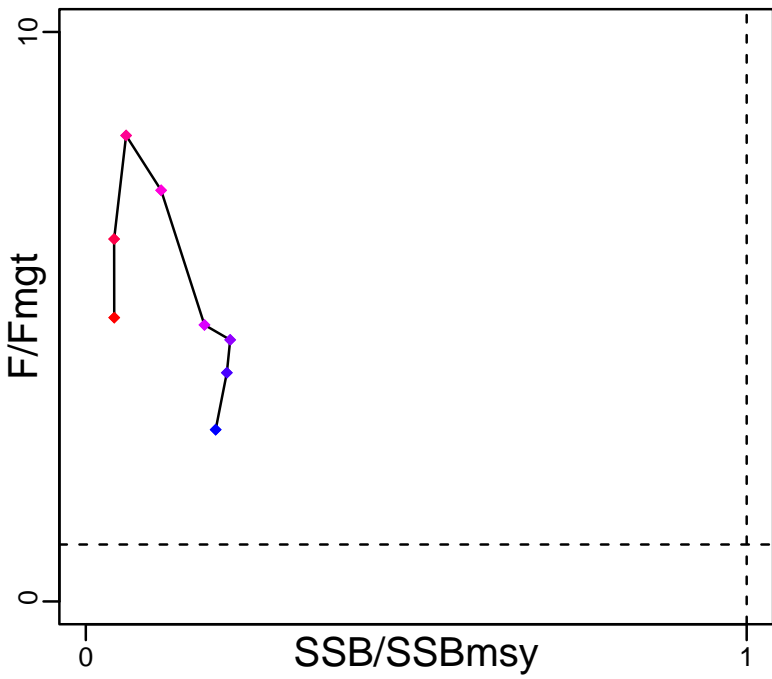
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGOM-1982-2018-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2018, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	59,045
Fmsy	Fmsy-1/yr	2011	0.18
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2014	59,045
Fmgt	Fmgt-1/yr	2014	0.187
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	10,043
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

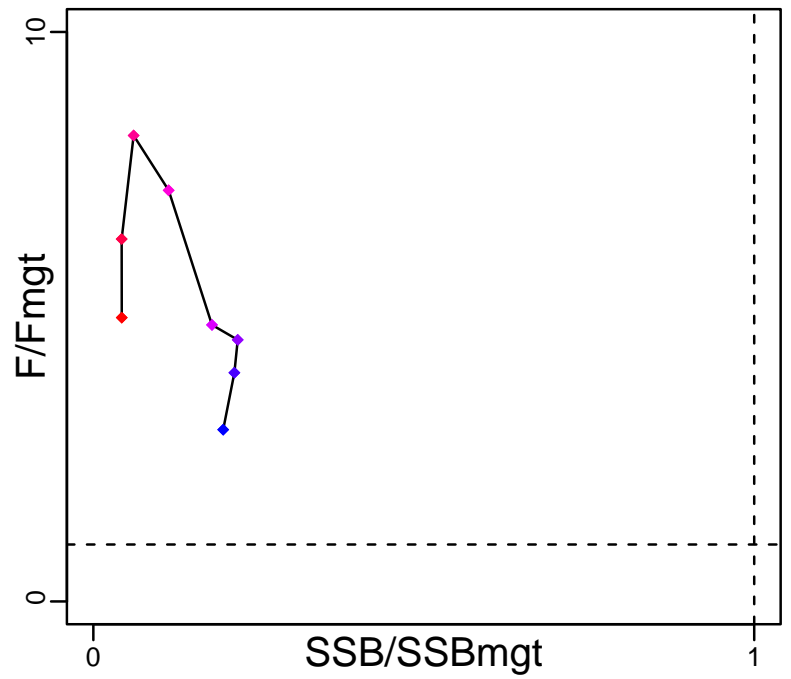
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2540	-	-
TN	-	-	-	-	-
R	R-E00	2014	3,210,000	-	1
F	F-1/yr	2014	0.932	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	753		
TL	TL-MT	2014	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.043		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	4.878		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2014	0.043		
F/Fmgt	F-1/yr/Fmgt-1/yr	2014	4.984		
ER/ERmgt	-	-	-		

Atlantic cod Gulf of Maine [CODGOM]

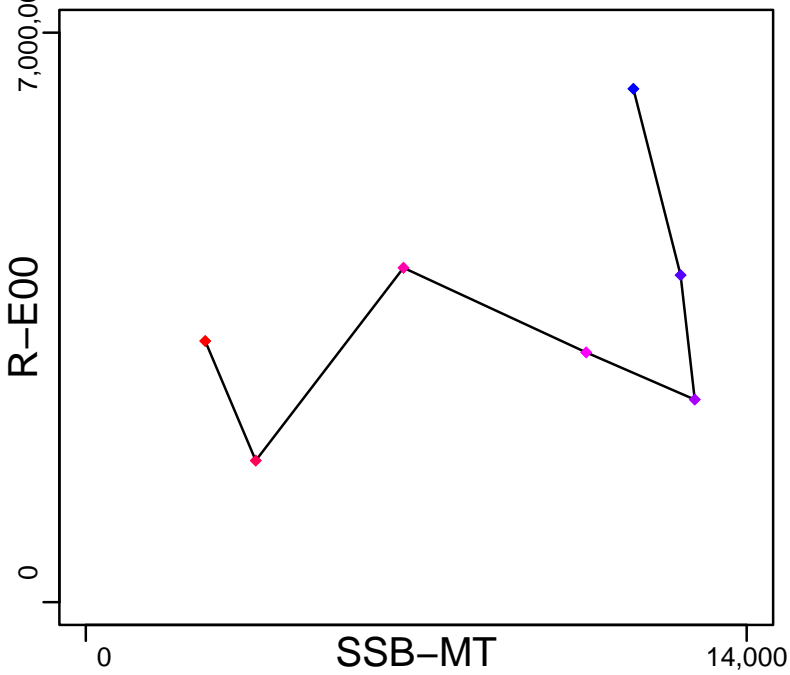
Kobe MSYpref (2006–2014–ASHBROOK)



Kobe MGTpref (2006–2014–ASHBROOK)



Spawner Recruit (2006–2014–ASHBROOK)



Production*



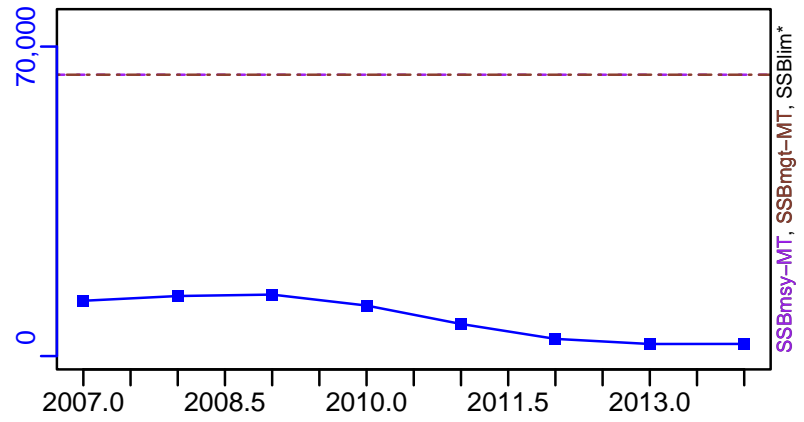
◆ Start Year ◆ End Year * No Data

Atlantic cod Gulf of Maine [CODGOM]

TB*



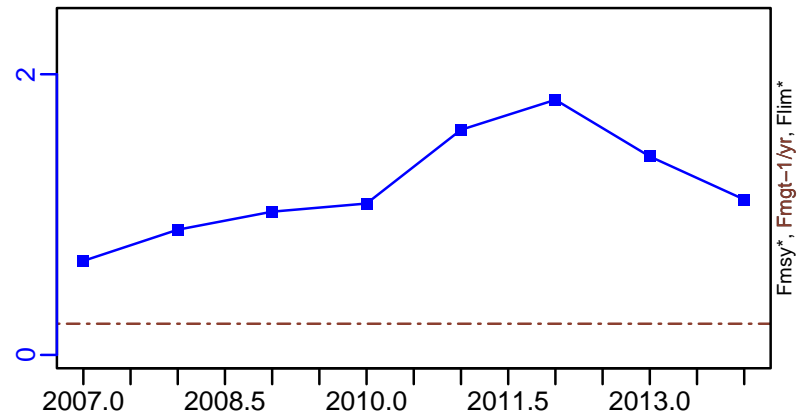
SSB-MT (2006–2014–ASHBROOK)



TN *



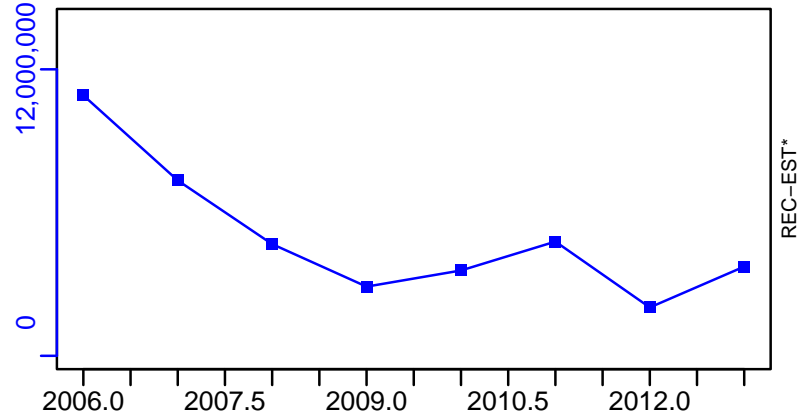
F-1/yr (2006–2014–ASHBROOK)



ER*

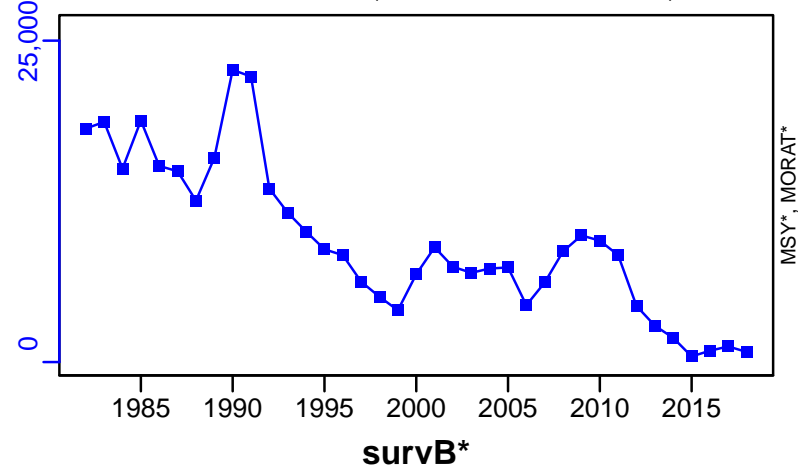


R-E00 (2006–2014–ASHBROOK)



Atlantic cod Gulf of Maine [CODGOM]

TC-MT, TL*, RecC* (1982-2018-SISIMP2021-2)



TAC*, Cpair*, Cadv*



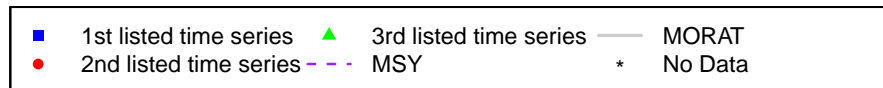
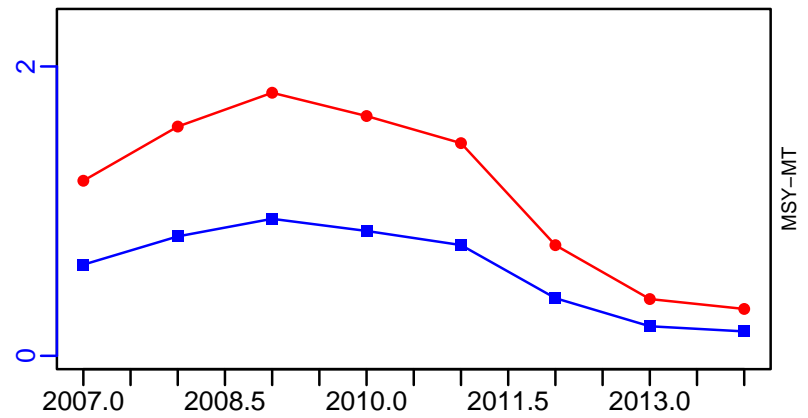
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (2006-2014-ASHBROOK)



Clearnose skate Mid-Atlantic Coast [CSKATMATLC]

Metadata	
Scientific Name	Raja eglanteria
Current Assess ID	NEFSC-CSKATMATLC-1968-2019-SISIMP2021-2
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2018, 2019, 2005

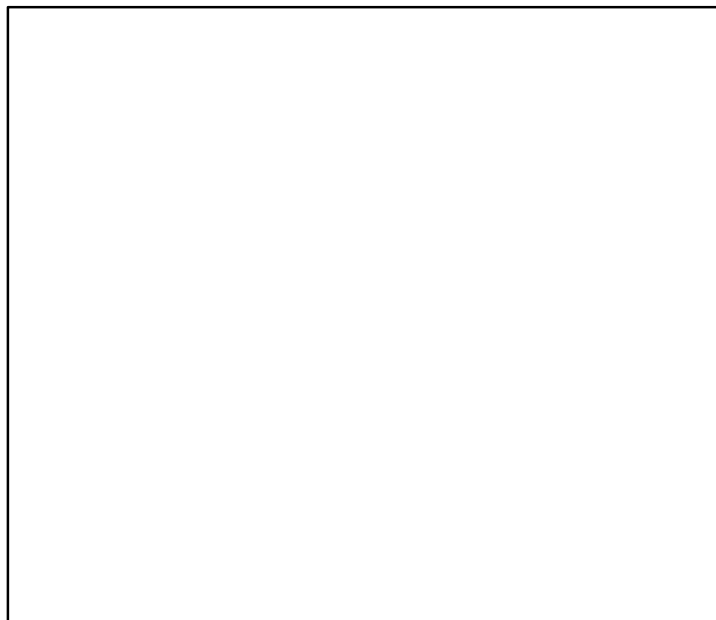
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	945		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



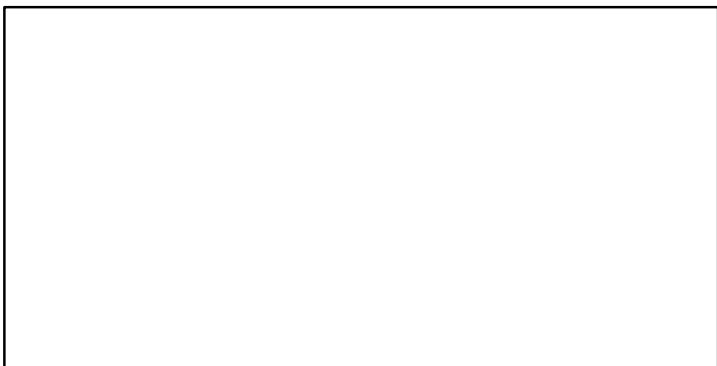
Production*



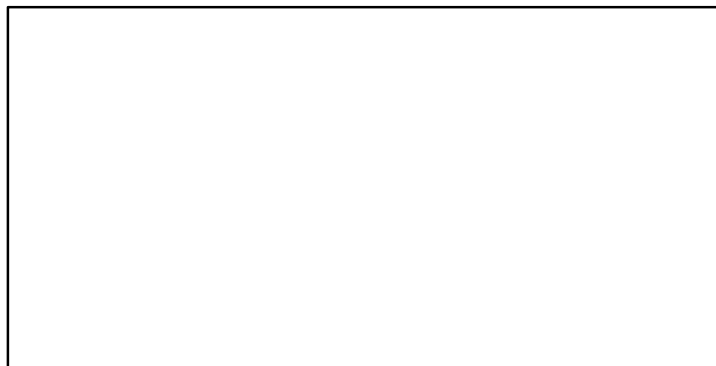
◆ Start Year ◆ End Year * No Data

Clearnose skate Mid-Atlantic Coast [CSKATMATLC]

TB*



SSB*



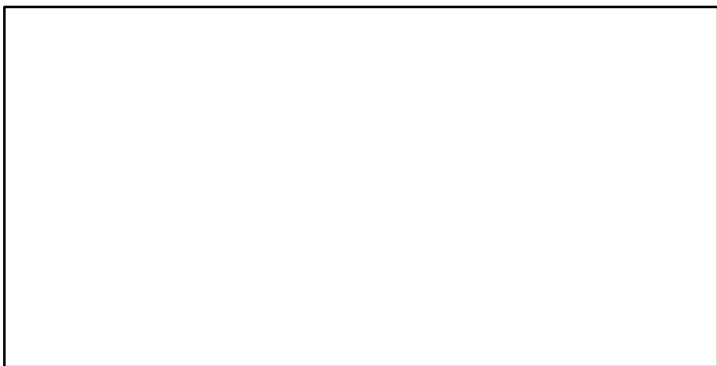
TN *



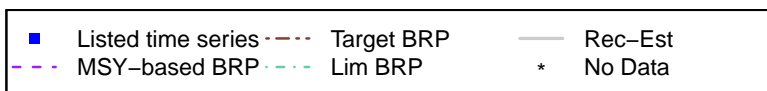
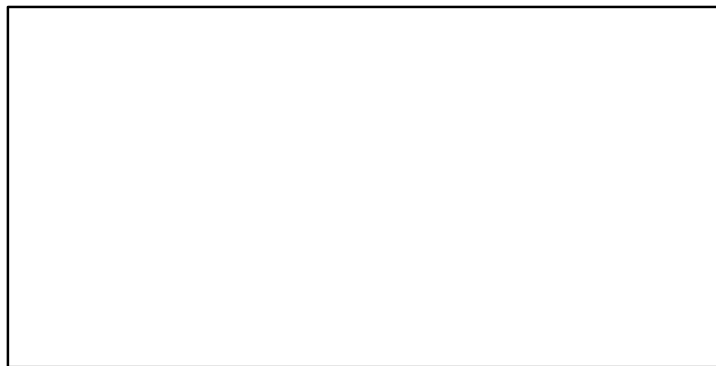
F*



ER*

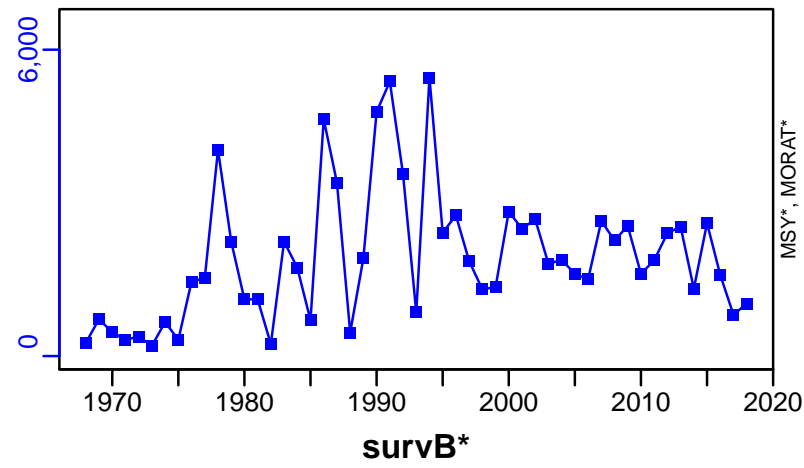


Recruits*

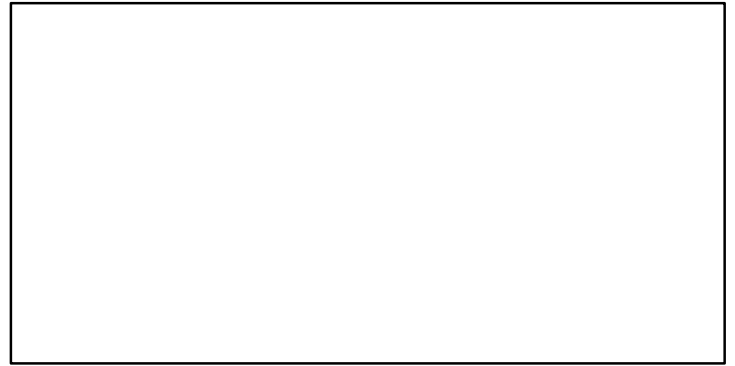


Clearnose skate Mid-Atlantic Coast [CSKATMATLC]

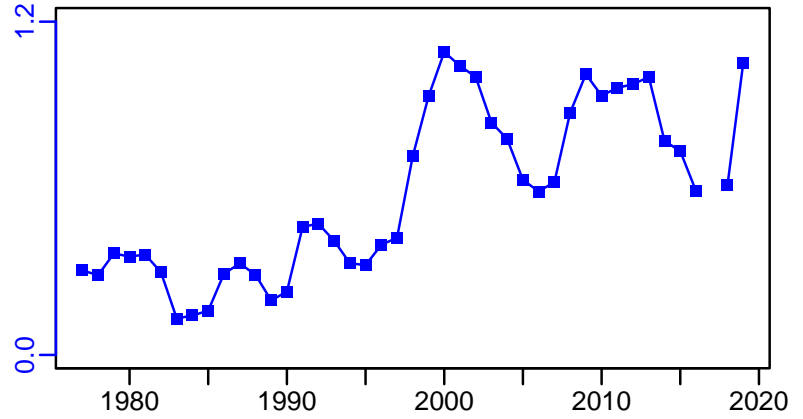
TC-MT, TL*, RecC* (1968-2019-SISIMP2021-2)



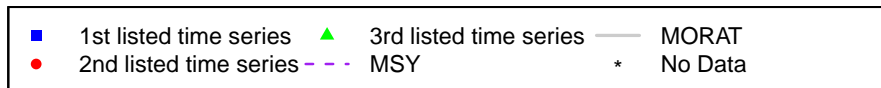
TAC*, Cpair*, Cadv*



CPUE-index (1968-2019-SISIMP2021-2)



EFFORT*



Haddock Gulf of Maine [HAD5Y]

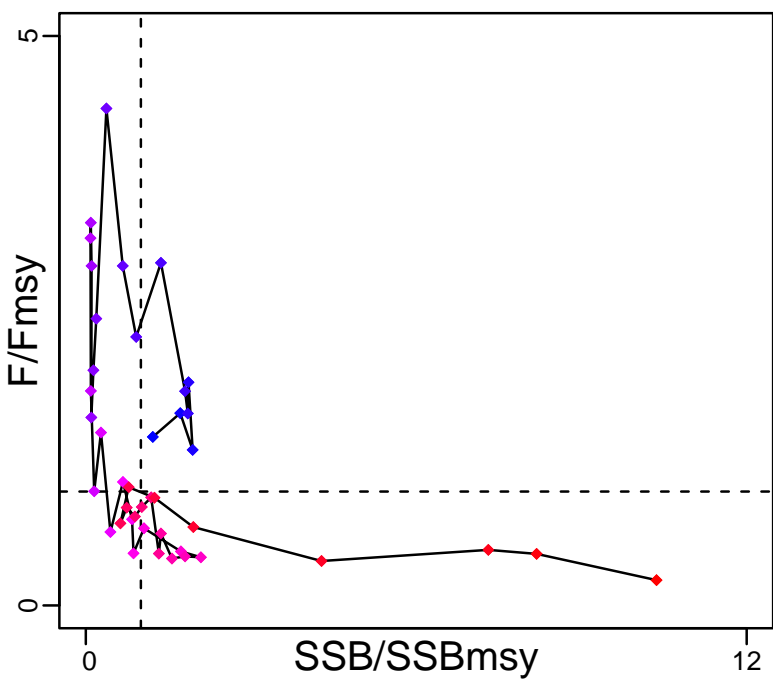
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HAD5Y-1977-2018-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	7990
Fmsy	Fmsy-1/yr	2018	0.369
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	1600
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	4000
Flim	Flim-1/yr	2018	0.369
ERlim	-	-	-

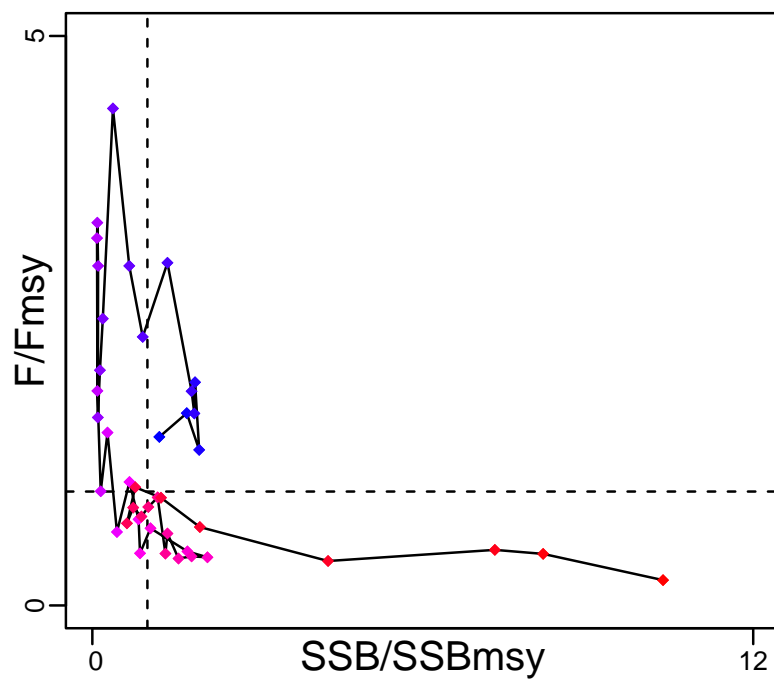
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	2580	-	-
SSB	SSB-MT	2018	82,800	-	-
TN	-	-	-	-	-
R	R-E00	2018	3,250,000	-	1
F	F-1/yr	2018	0.082	-	-
ER	ER-ratio	2011	0.359	-	-
TC	TC-MT	2018	3730		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	10.363		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.222		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Gulf of Maine [HAD5Y]

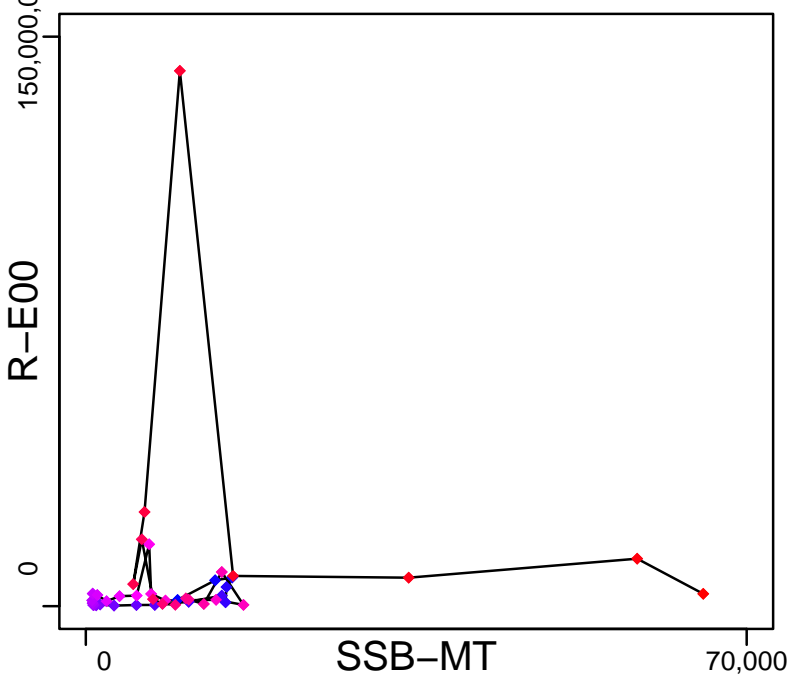
Kobe MSYpref (1977–2018–SISIMP2021–2)



Kobe MGTpref (1977–2018–SISIMP2021–2)



Spawner Recruit (1977–2018–SISIMP2021–2)



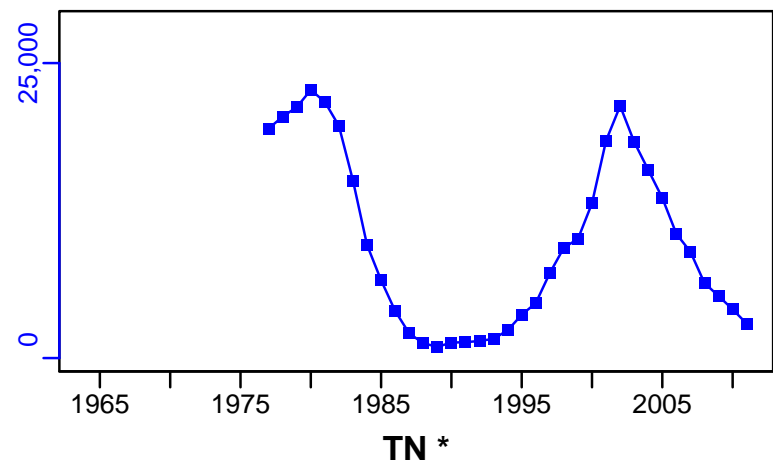
Production*



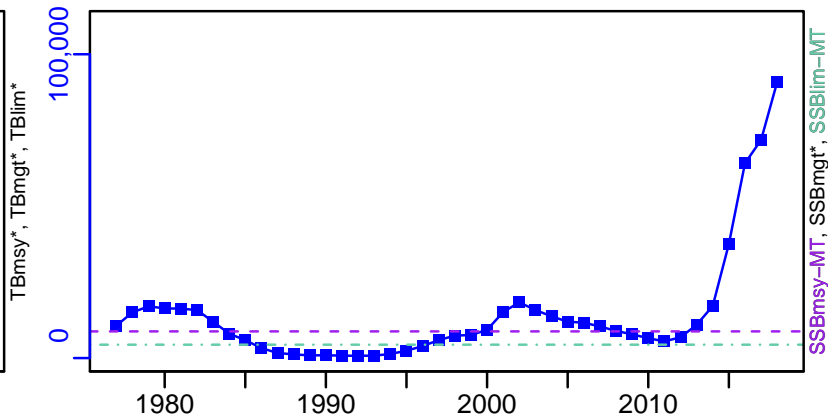
◆ Start Year ◆ End Year * No Data

Haddock Gulf of Maine [HAD5Y]

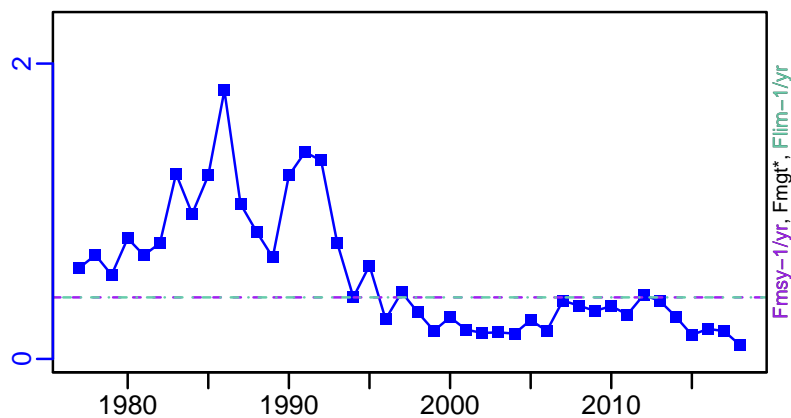
TB-MT (1964–2011–CHING)



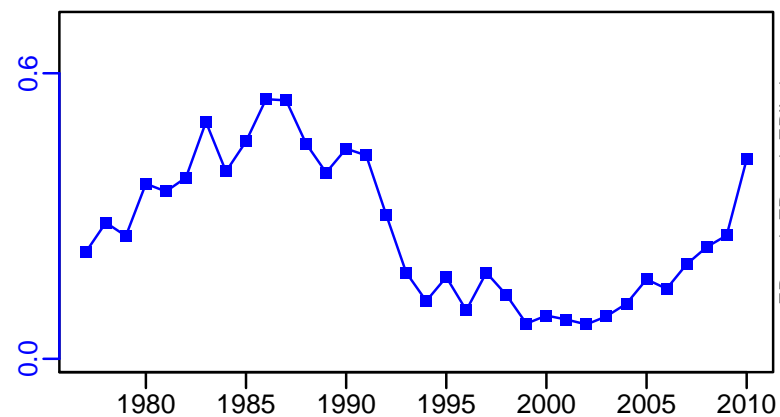
SSB-MT (1977–2018–SISIMP2021–2)



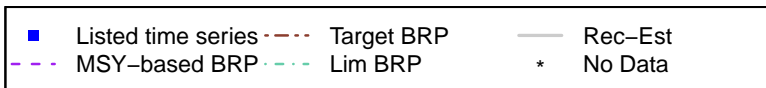
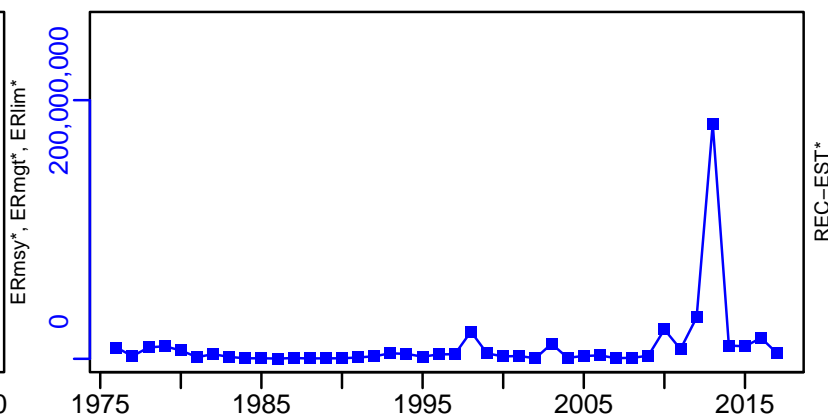
F-1/yr (1977–2018–SISIMP2021–2)



ER-ratio (1964–2011–CHING)

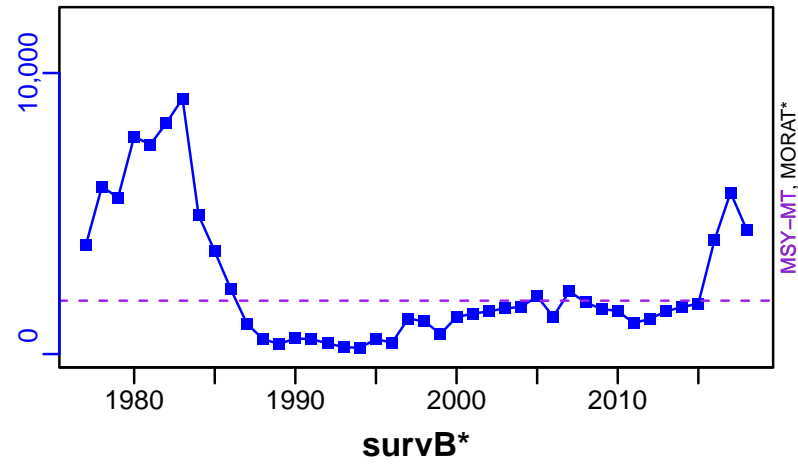


R-E00 (1977–2018–SISIMP2021–2)

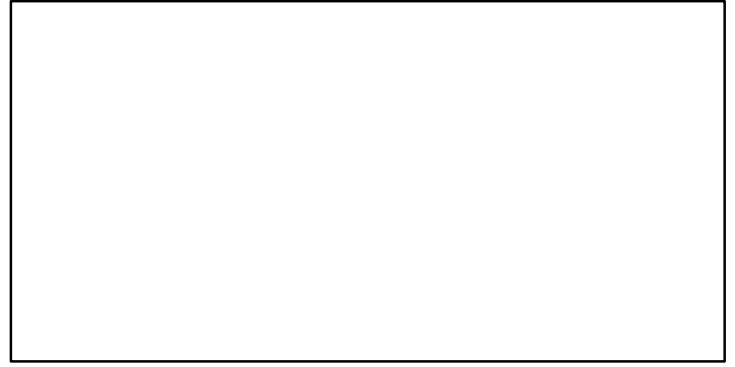


Haddock Gulf of Maine [HAD5Y]

TC-MT, TL*, RecC* (1977-2018-SISIMP2021-2)



TAC*, Cpair*, Cadv*



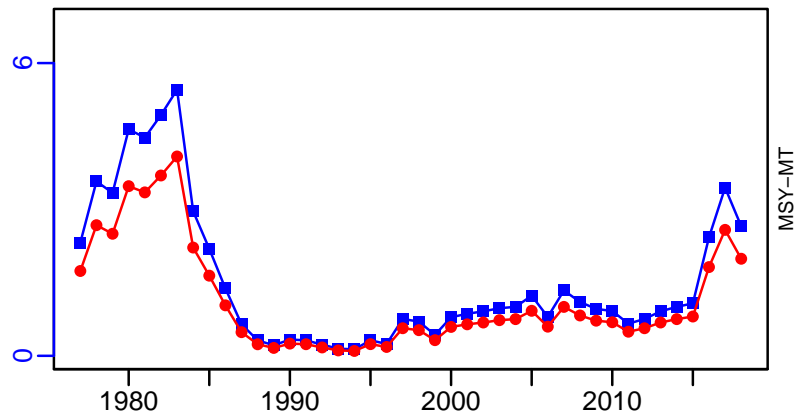
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1977-2018-SISIMP2021-2)



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

Haddock Georges Bank [HADGB]

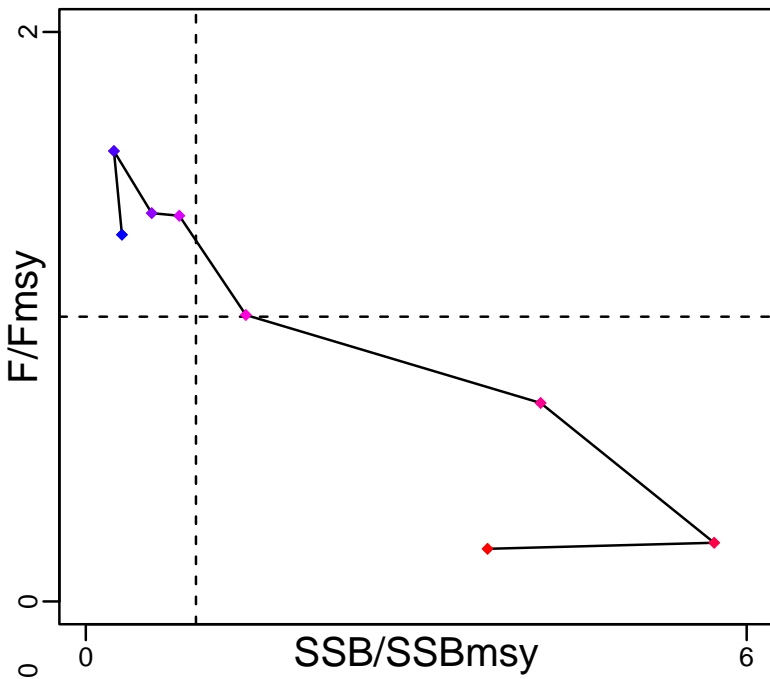
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HADGB-2011-2018-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2014, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	139,000
Fmsy	Fmsy-1/yr	2018	0.33
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	30,500
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	67,500
Flim	Flim-1/yr	2018	0.33
ERlim	-	-	-

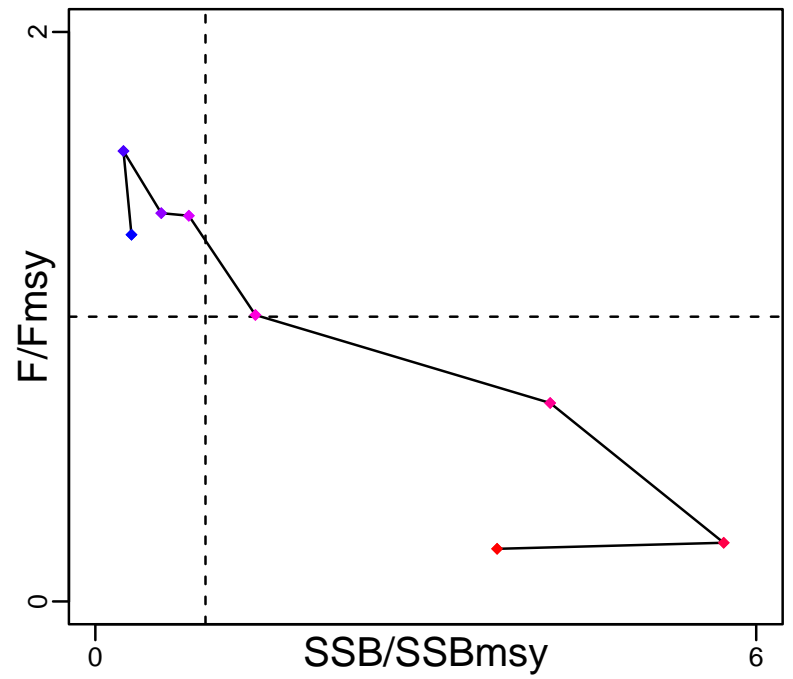
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	507,000	-	-
TN	-	-	-	-	-
R	R-E00	2018	8×10^7	-	1
F	F-1/yr	2018	0.061	-	-
ER	ER-ratio	2010	0.074	-	-
TC	TC-MT	2018	16,600		
TL	TL-MT	2010	21,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	3.647		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.185		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Georges Bank [HADGB]

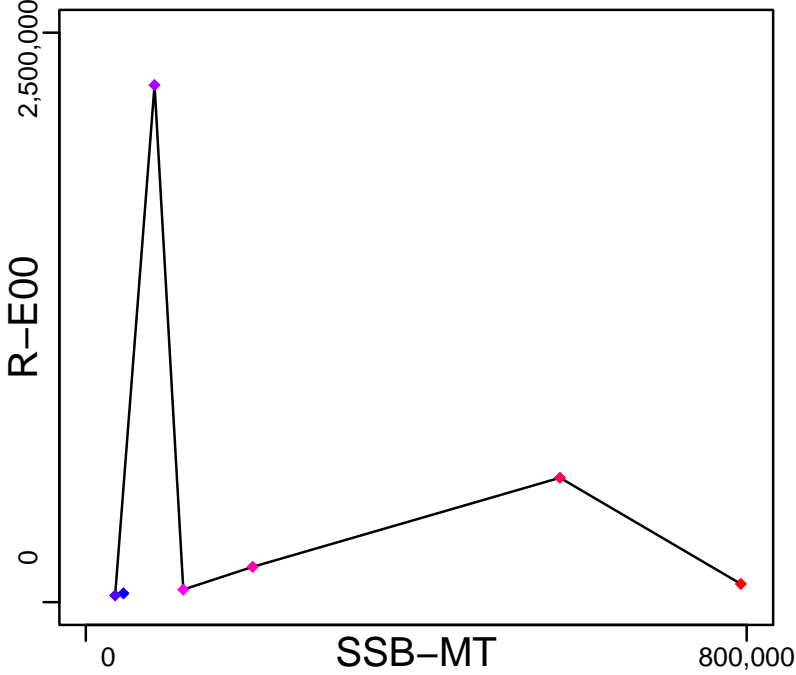
Kobe MSYpref (2011–2018–SISIMP2021–2)



Kobe MGTpref (2011–2018–SISIMP2021–2)



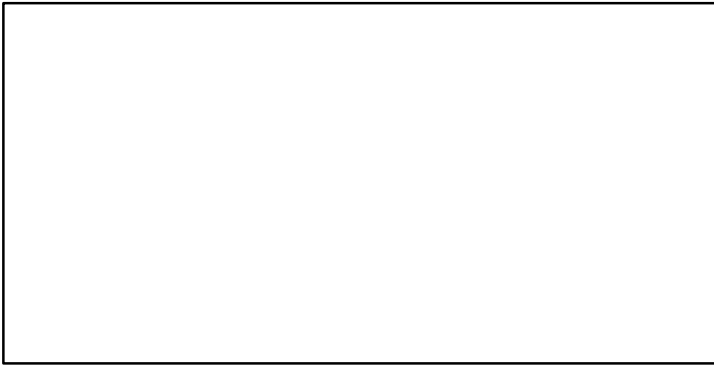
Spawner Recruit (2011–2018–SISIMP2021–2)



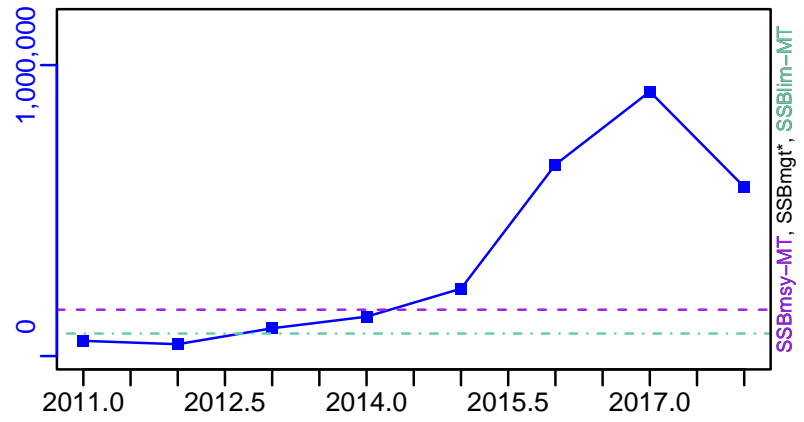
◆ Start Year ◆ End Year * No Data

Haddock Georges Bank [HADGB]

TB*



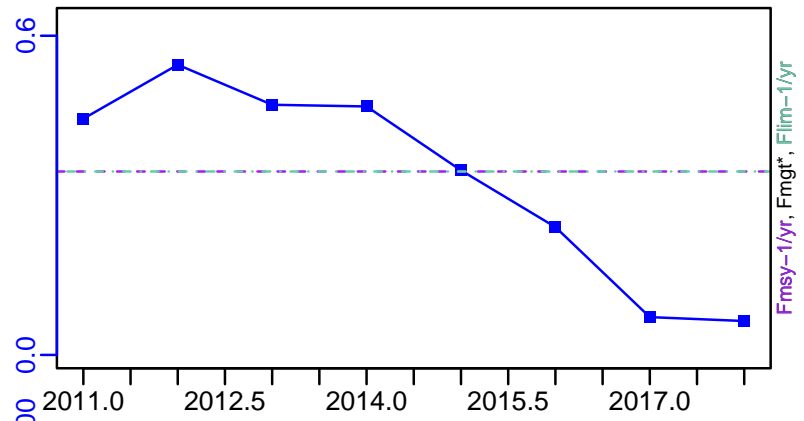
SSB-MT (2011–2018–SISIMP2021–2)



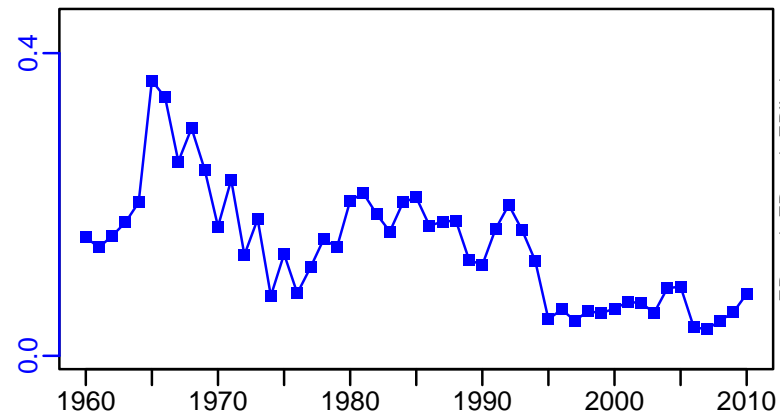
TN *



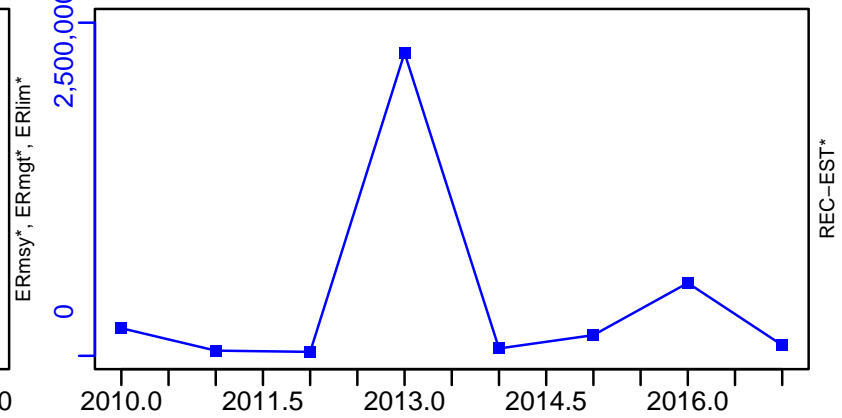
F-1/yr (2011–2018–SISIMP2021–2)



ER-ratio (1931–2010–CHING)

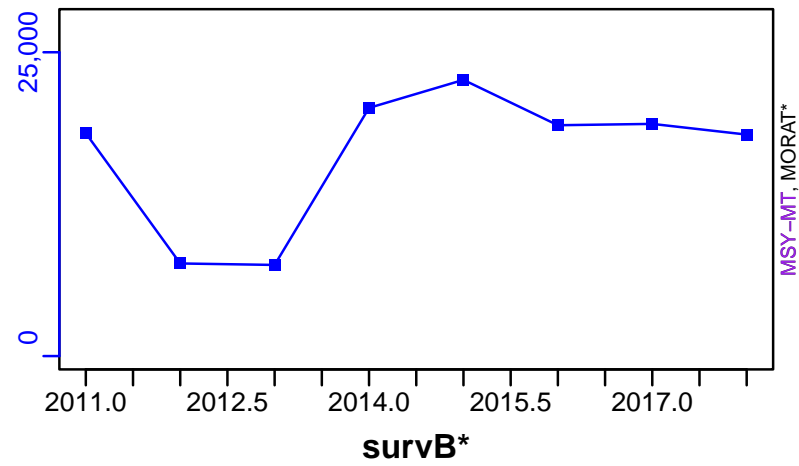


R-E00 (2011–2018–SISIMP2021–2)



Haddock Georges Bank [HADGB]

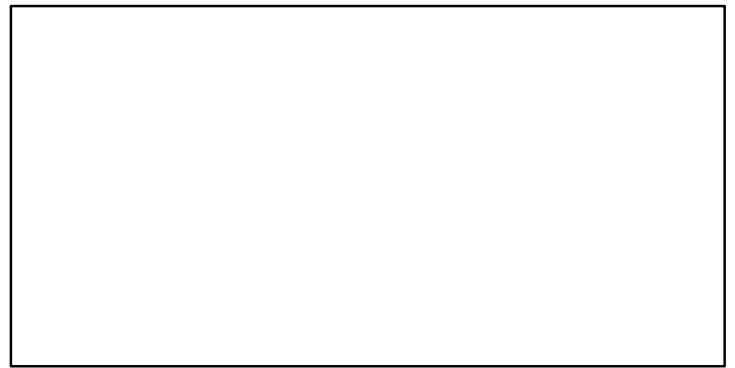
TC-MT, TL*, RecC* (2011-2018-SISIMP2021-2)



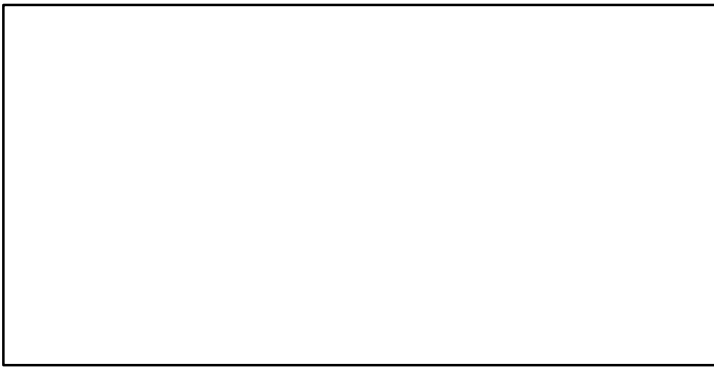
TAC*, Cpair*, Cadv*



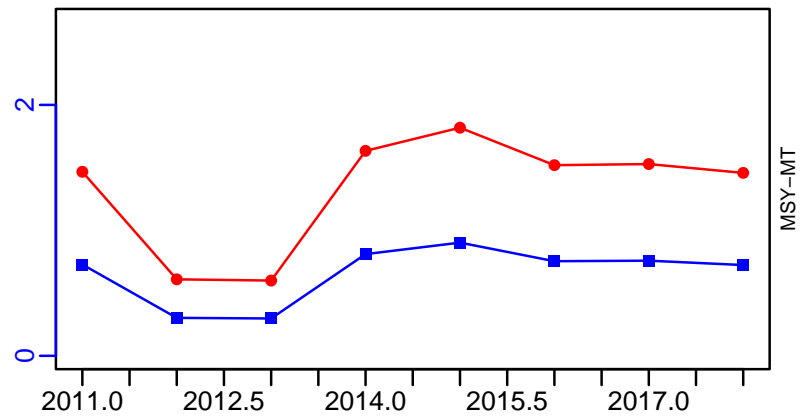
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (2011-2018-SISIMP2021-2)



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

Herring Northwestern Atlantic Coast [HERRNWATLC]

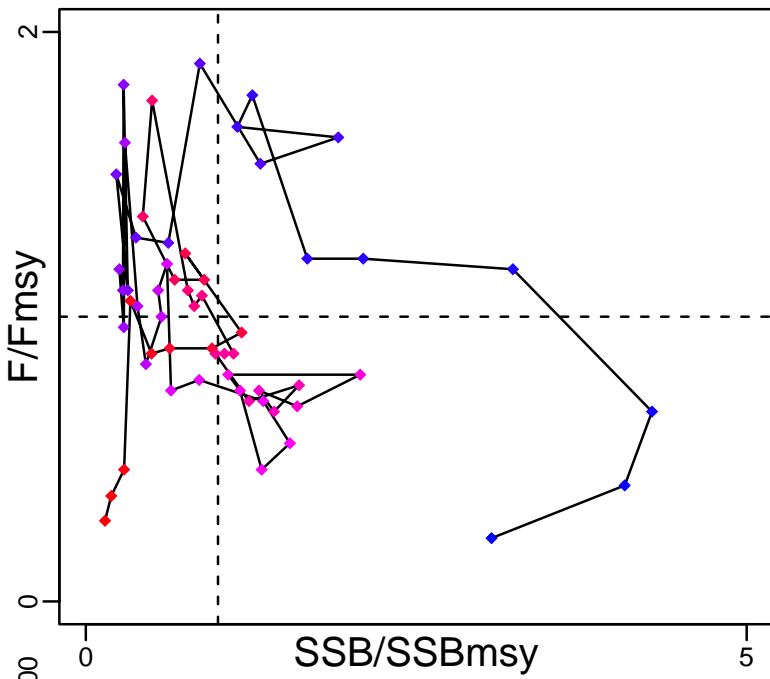
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	NEFSC-HERRNWATLC-1964-2022-SISIMP2022
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2017, 2022, 2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	269,000
Fmsy	Fmsy-1/yr	2022	0.54
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	99,400
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	135,000
Flim	Flim-1/yr	2019	0.54
ERlim	-	-	-

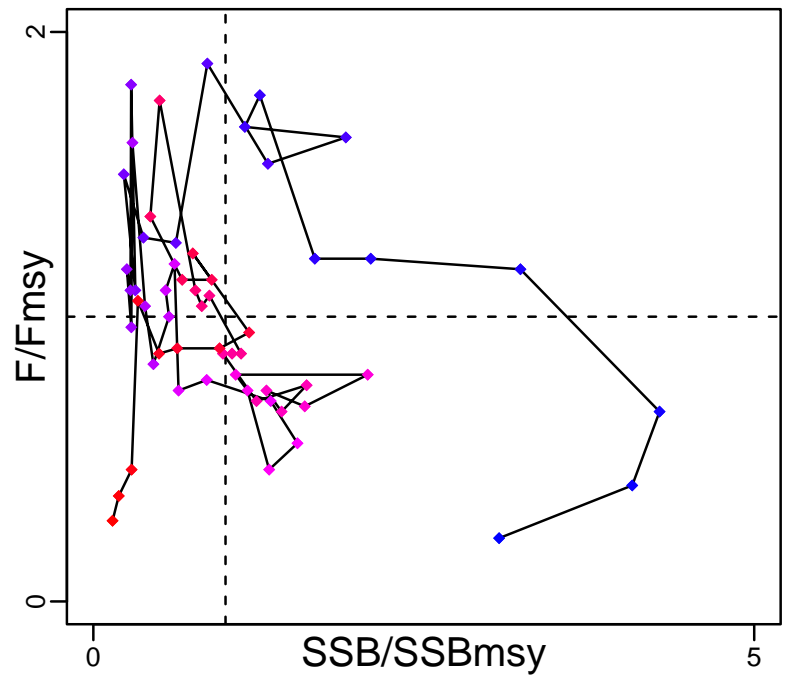
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	1,320,000	-	-
SSB	SSB-MT	2022	61,645	-	-
TN	-	-	-	-	-
R	R-E00	2022	2,144,500,000	-	1
F	F-1/yr	2022	0.153	-	-
ER	ER-calc-ratio	2011	0.064	-	-
TC	TC-MT	2022	7865		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.229		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.283		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Herring Northwestern Atlantic Coast [HERRNWATLC]

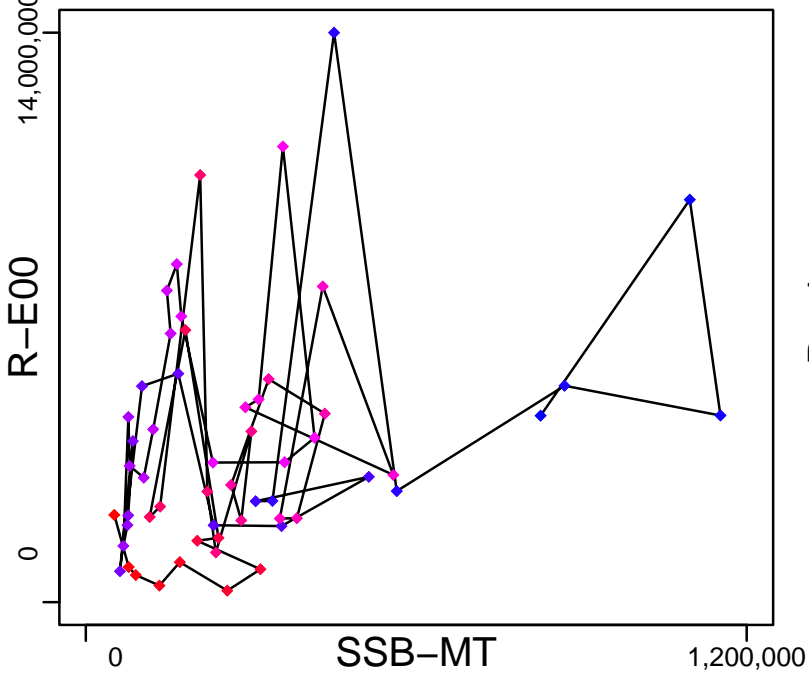
Kobe MSYpref (1964–2022–SISIMP2022)



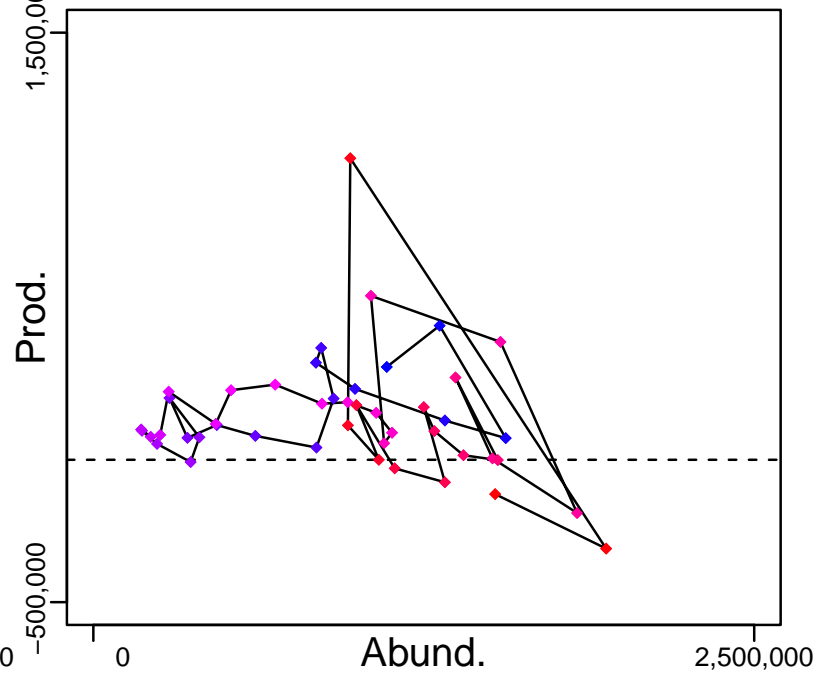
Kobe MGTpref (1964–2022–SISIMP2022)



Spawner Recruit (1964–2022–SISIMP2022)



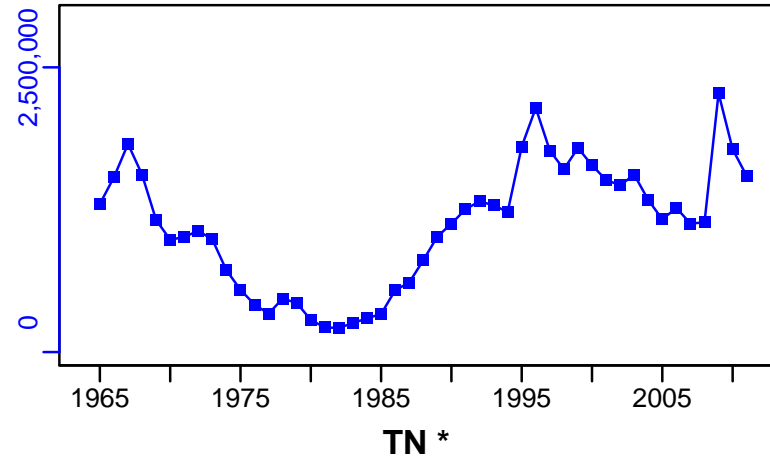
Production (1964–2011–HIVELY)



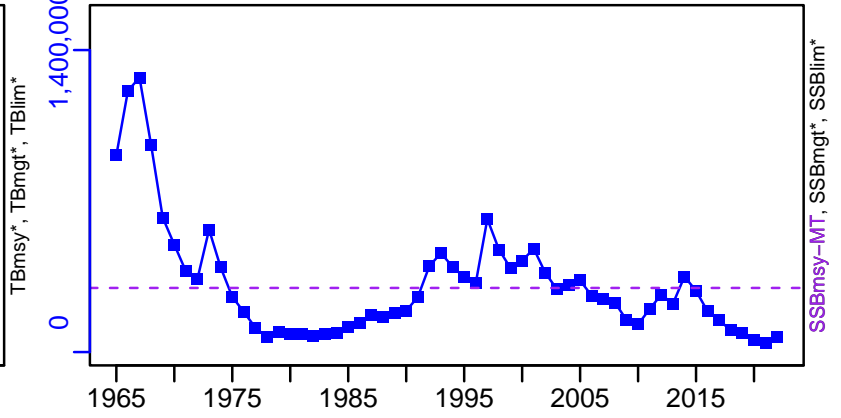
◆ Start Year ◆ End Year * No Data

Herring Northwestern Atlantic Coast [HERRNWATLC]

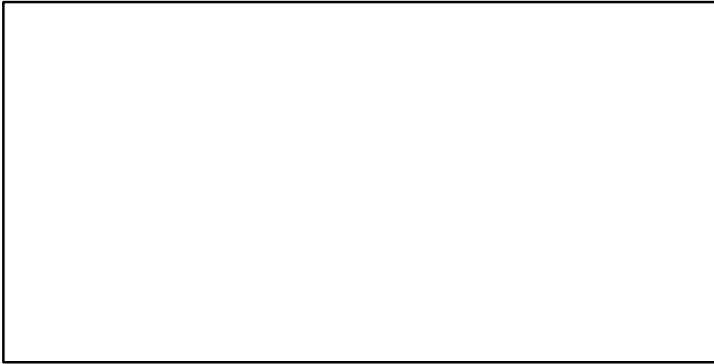
TB-MT (1964–2011–HIVELY)



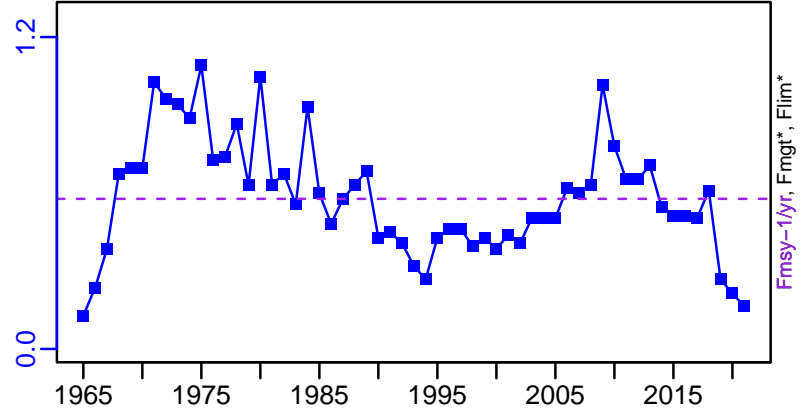
SSB-MT (1964–2022–SISIMP2022)



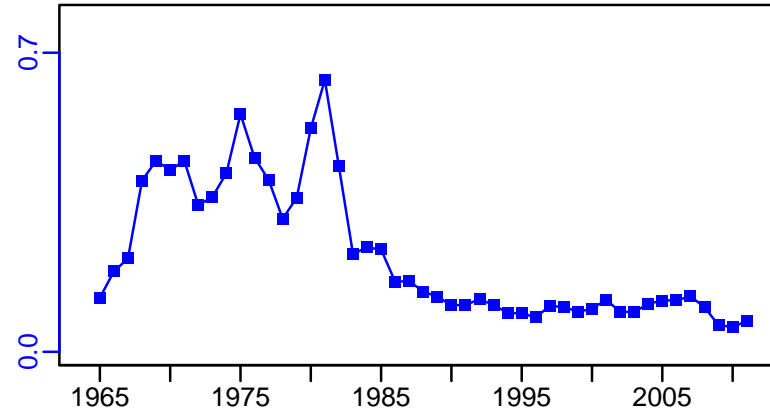
TN *



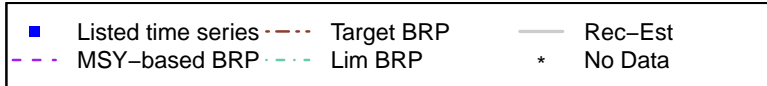
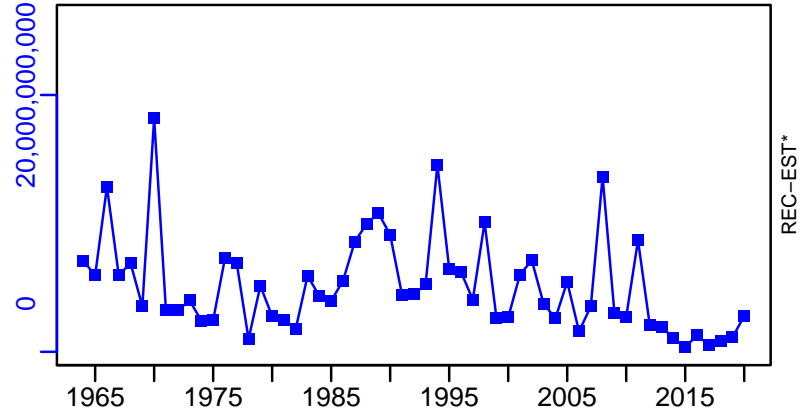
F-1/yr (1964–2022–SISIMP2022)



ER-calc-ratio (1964–2011–HIVELY)

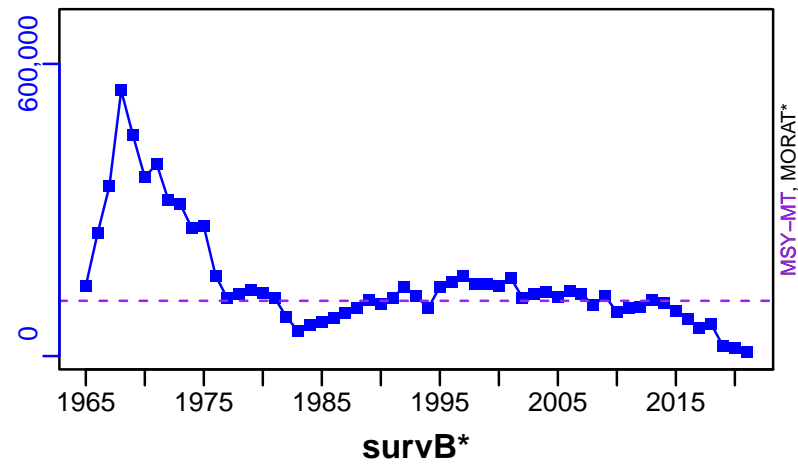


R-E00 (1964–2022–SISIMP2022)



Herring Northwestern Atlantic Coast [HERRNWATLC]

TC-MT, TL*, RecC* (1964–2022–SISIMP2022)



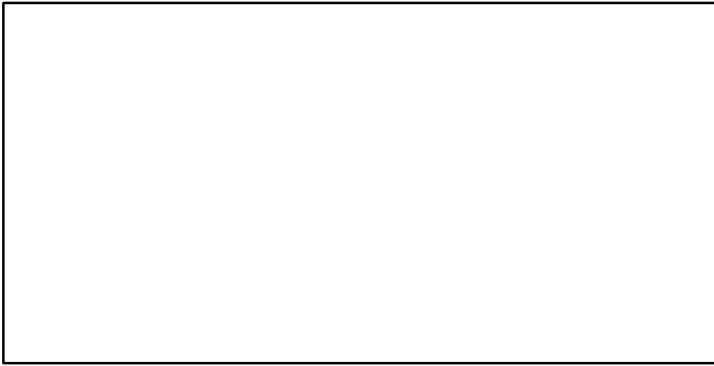
TAC*, Cpair*, Cadv*



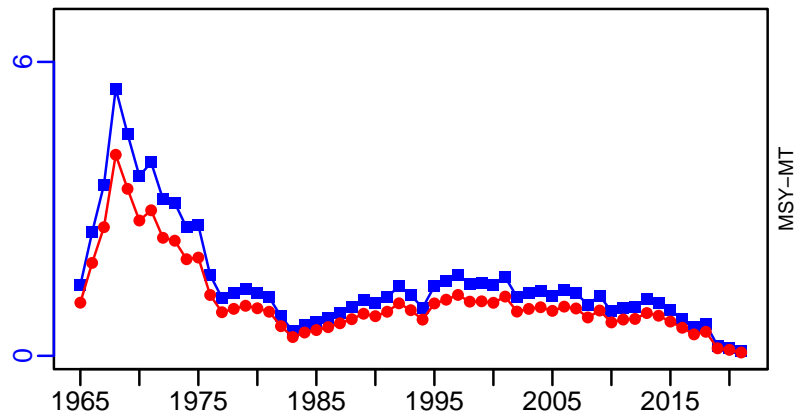
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1964–2022–SISIMP2022)



Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

Metadata	
Scientific Name	Illex illecebrosus
Current Assess ID	NEFSC-ILLEXNWATLC-1967-2005-HENDRICKSON
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2005	0.7	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2005	12,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

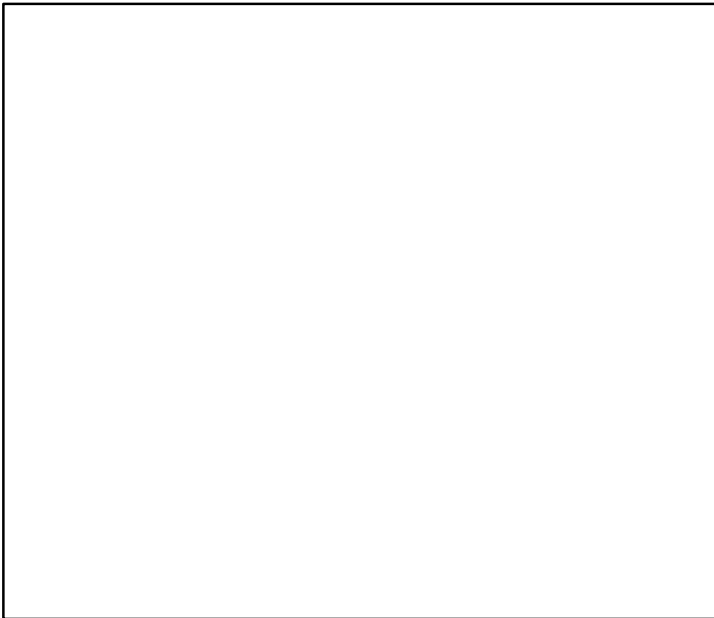
Kobe MSY*



Kobe MGT*



Spawner Recruit*



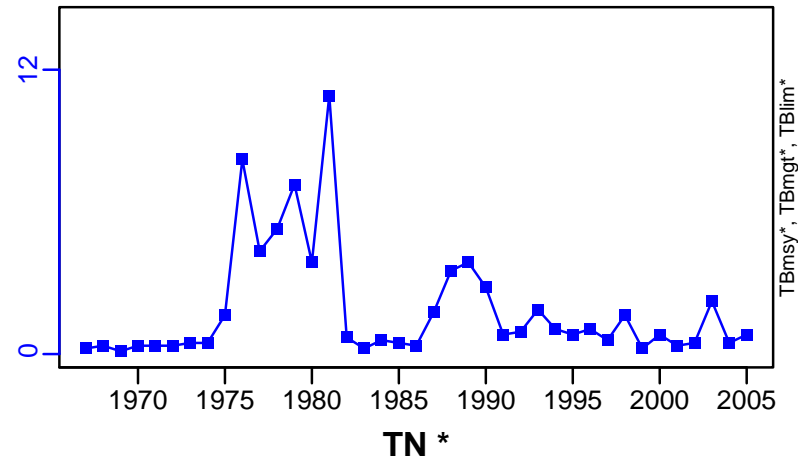
Production*



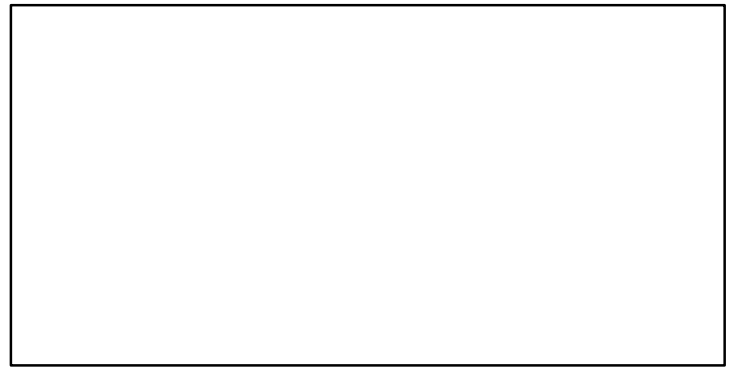
◆ Start Year ◆ End Year * No Data

Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

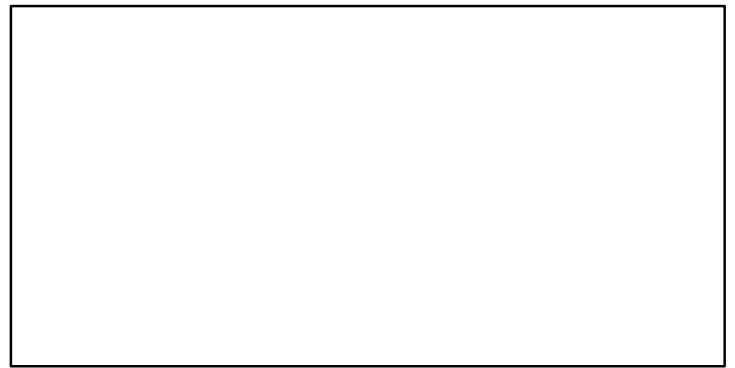
TB-relative (1967–2005–HENDRICKSON)



SSB*



F*



ER*

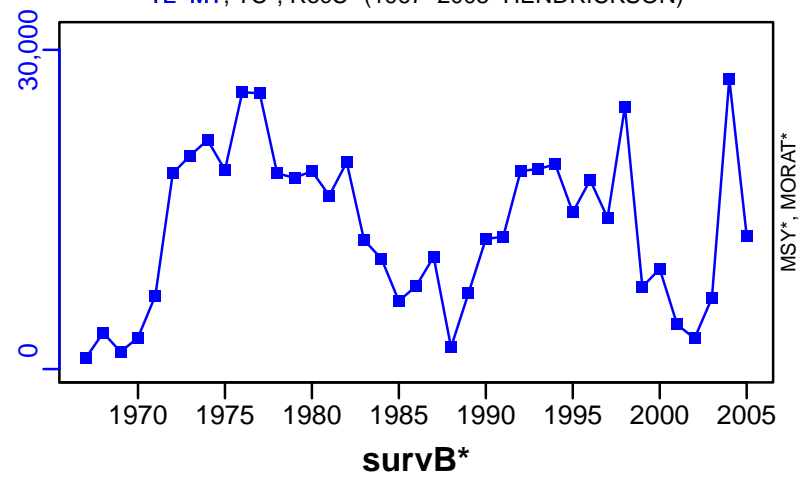


Recruits*

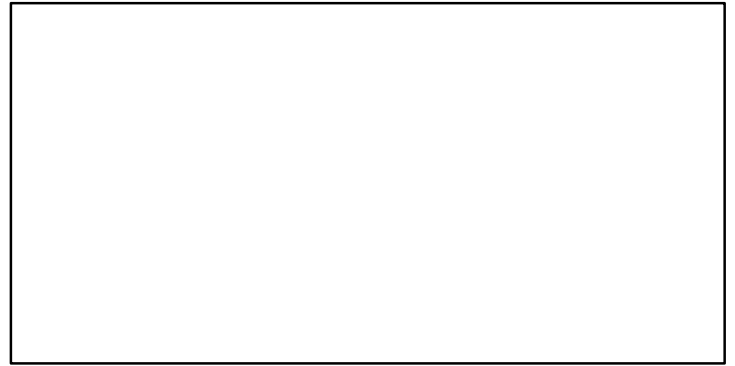


Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

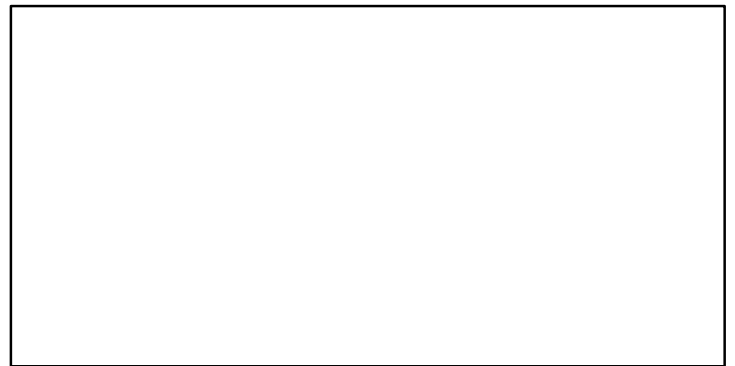
TL-MT, TC*, RecC* (1967-2005-HENDRICKSON)



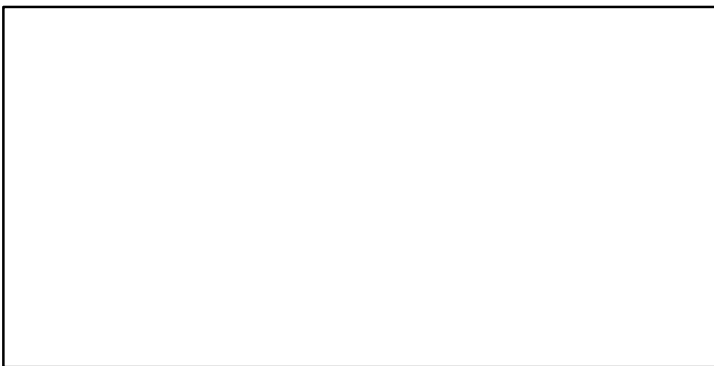
TAC*, Cpair*, Cadv*



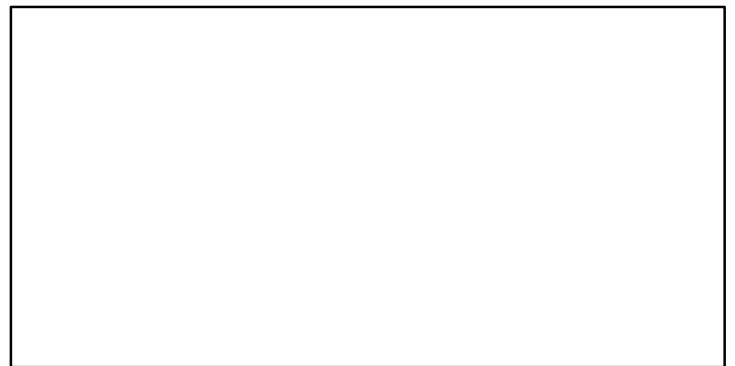
CPUE*



EFFORT*



CdivMSY*



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

Metadata	
Scientific Name	Loligo pealeii
Current Assess ID	SEFSC-LISQUIDATLC-1963-2019-SISIMP2021-2
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2009, 2016, 2019

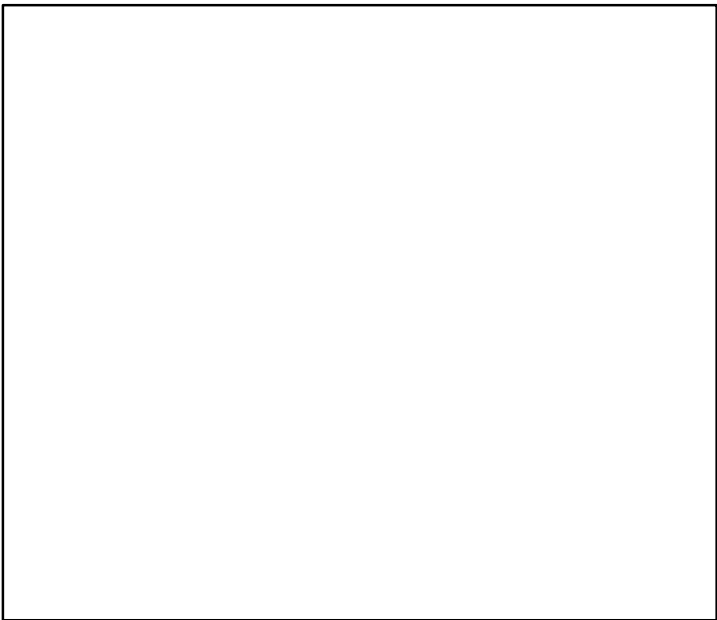
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2009	42,405
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	39,800	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.24	-	-
ER	ER-ratio	2019	0.202	-	-
TC	TC-MT	2019	12,800		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2009	0.939		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

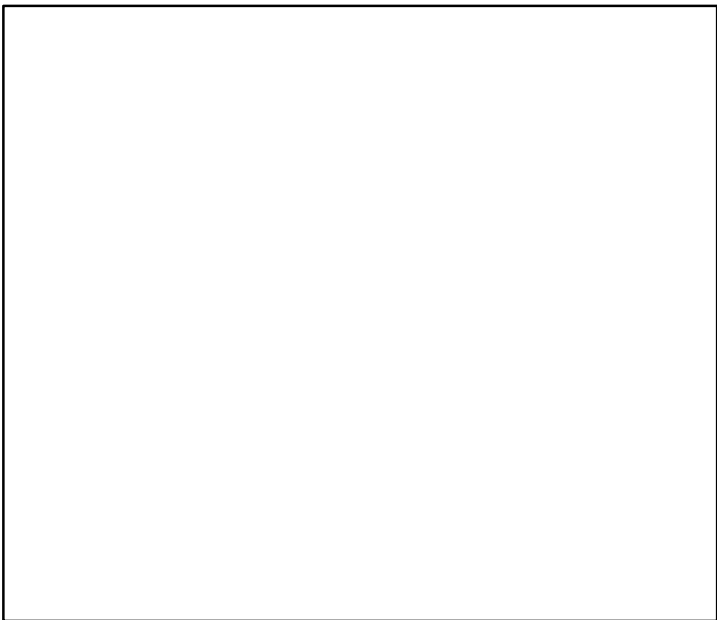
Kobe MSY*



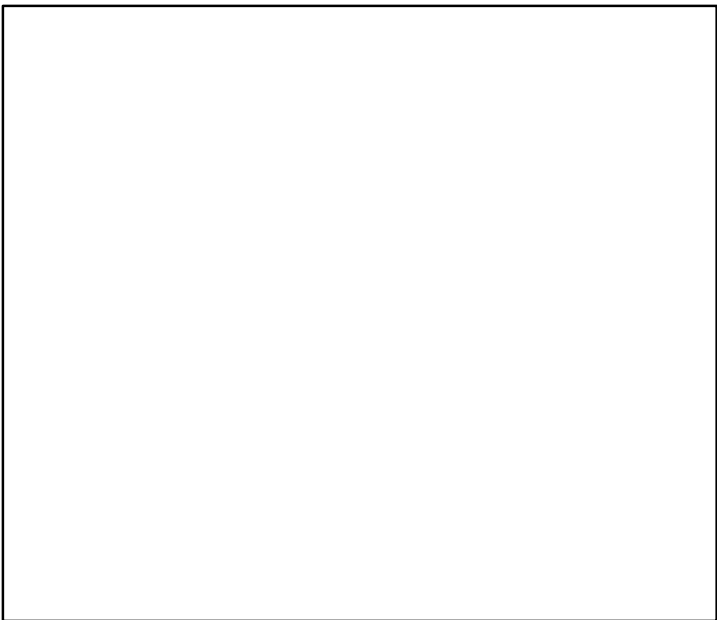
Kobe MGT*



Spawner Recruit*



Production*

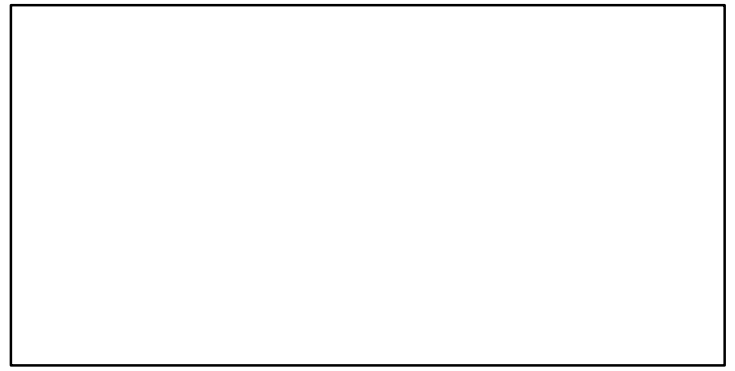
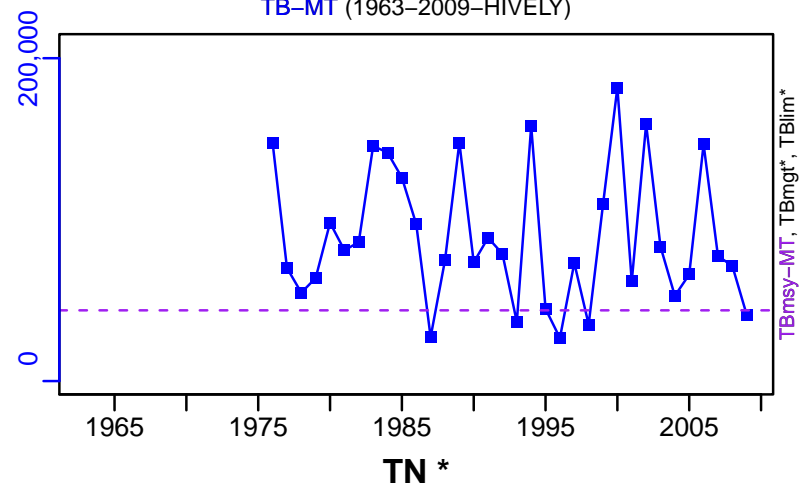


◆ Start Year ◆ End Year * No Data

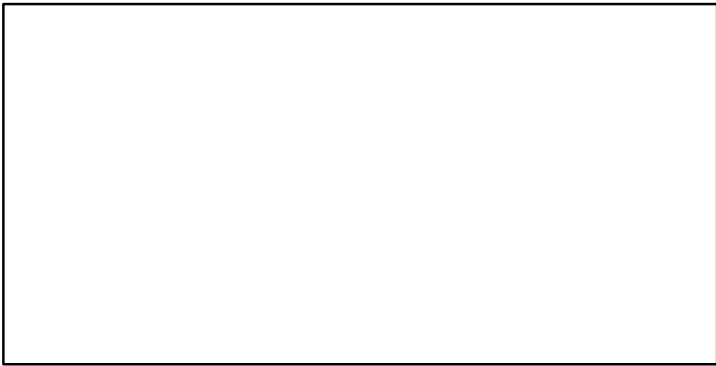
Longfin inshore squid Atlantic Coast [LISQUIDATLC]

TB-MT (1963–2009–HIVELY)

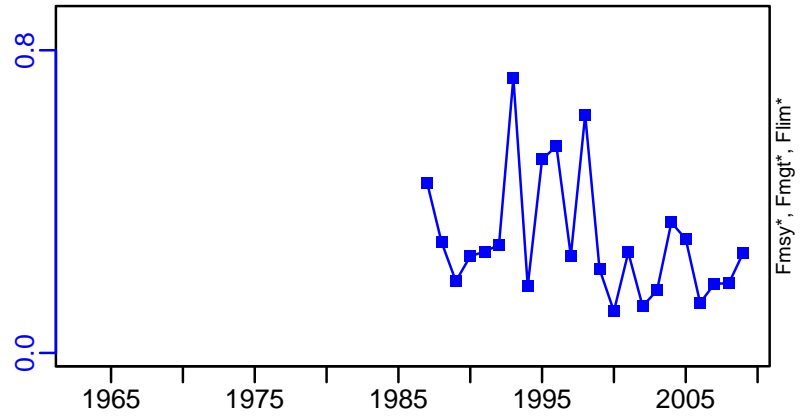
SSB*



TN *

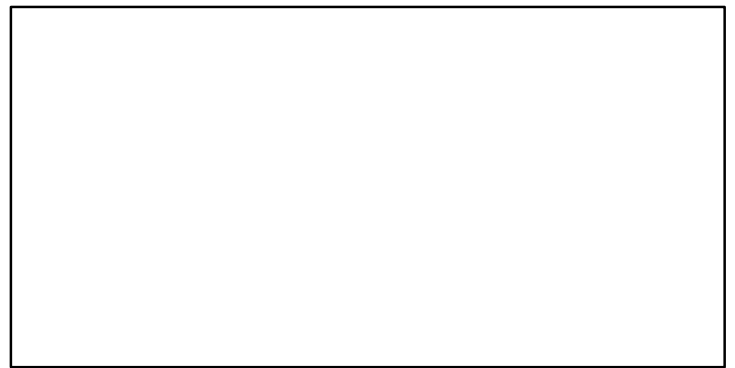
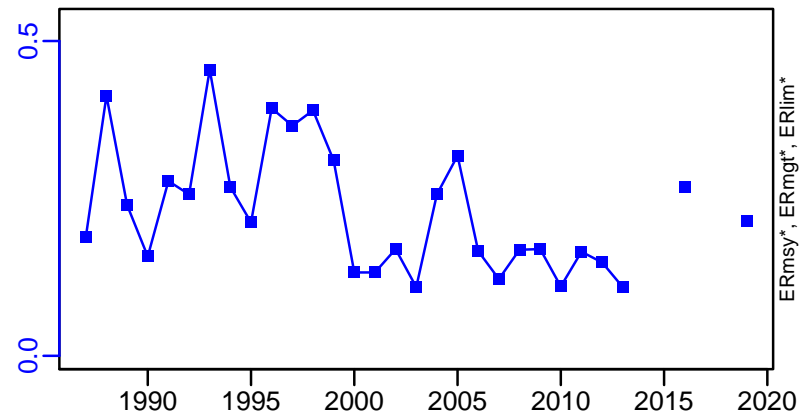


F-1/yr (1963–2009–HIVELY)



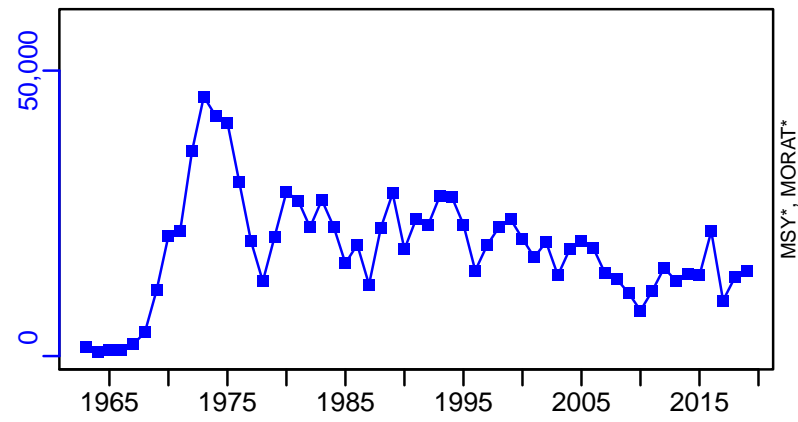
ER-ratio (1963–2019–SISIMP2021–2)

Recruits*



Longfin inshore squid Atlantic Coast [LISQUIDATLC]

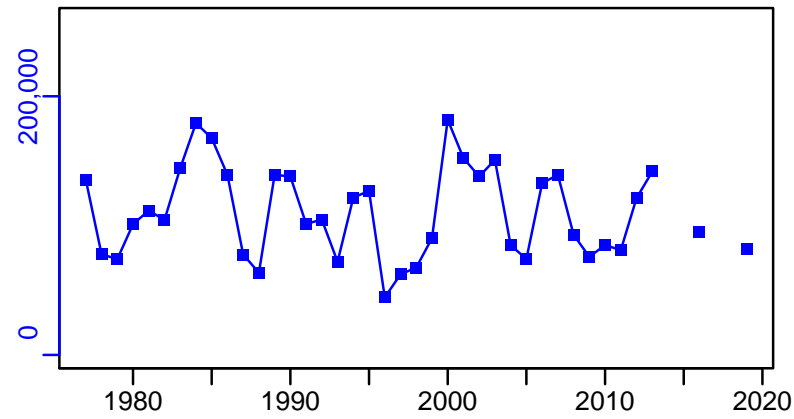
TC-MT, TL*, RecC* (1963-2019-SISIMP2021-2)



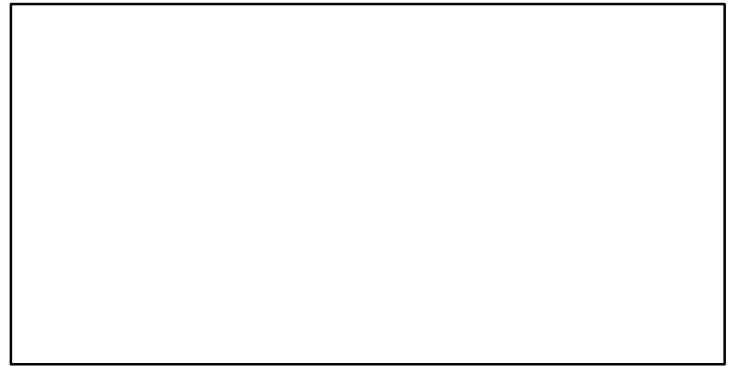
TAC*, Cpair*, Cadv*



survB-MT (1963-2019-SISIMP2021-2)



CPUE*



EFFORT*



CdivMSY*



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

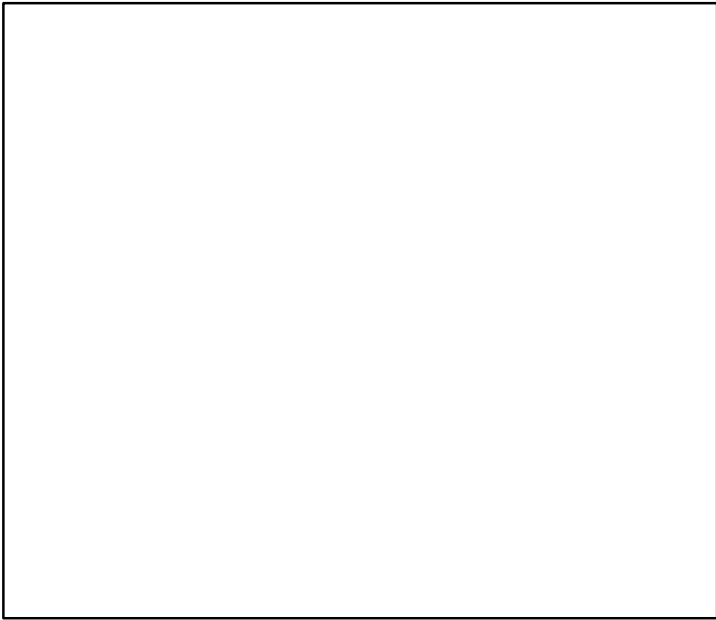
American lobster Gulf of Maine / Georges Bank [LOBSTERGOMGB]

Metadata	
Scientific Name	Homarus americanus
Current Assess ID	ASMFC-LOBSTERGOMGB-1979-2018-HIVELY
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2018	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	39,445	Females	-
TN	TN-E00	2018	2.67×10^8	Both	-
R	R-E00	2018	3.73×10^8	Both	-
F	-	-	-	-	-
ER	ER-ratio	2018	0.44	Both	-
TC	-	-	-		
TL	TL-MT	2018	64,447		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

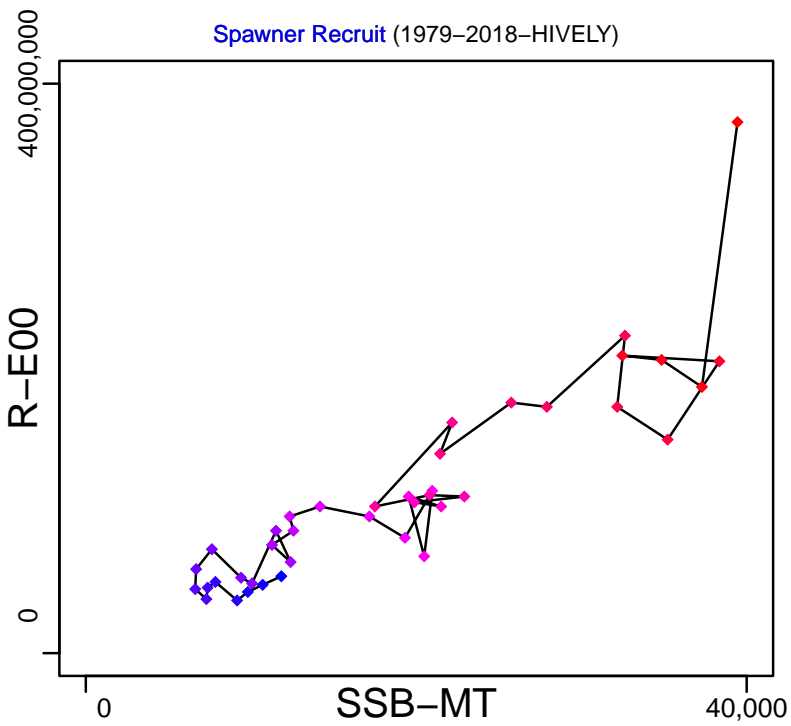
Kobe MSY*



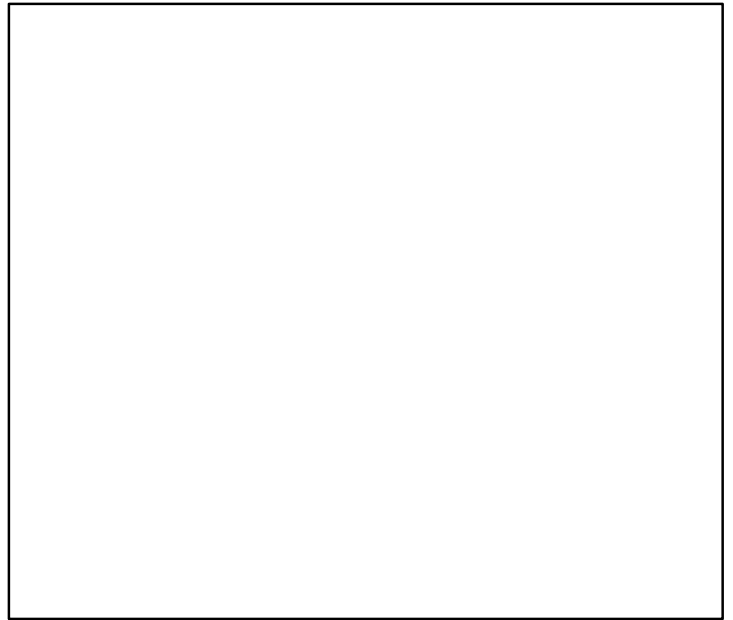
Kobe MGT*



Spawner Recruit (1979–2018–HIVELY)



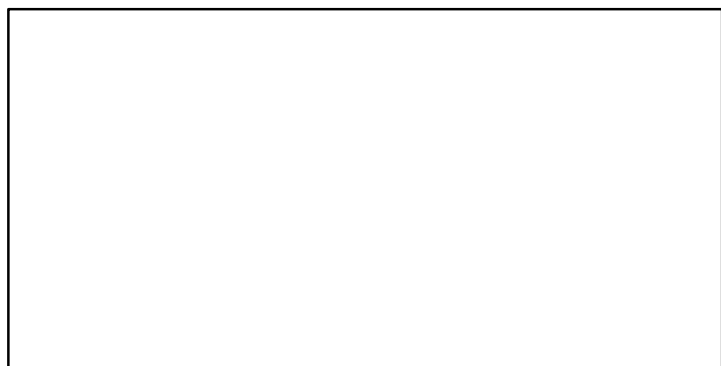
Production*



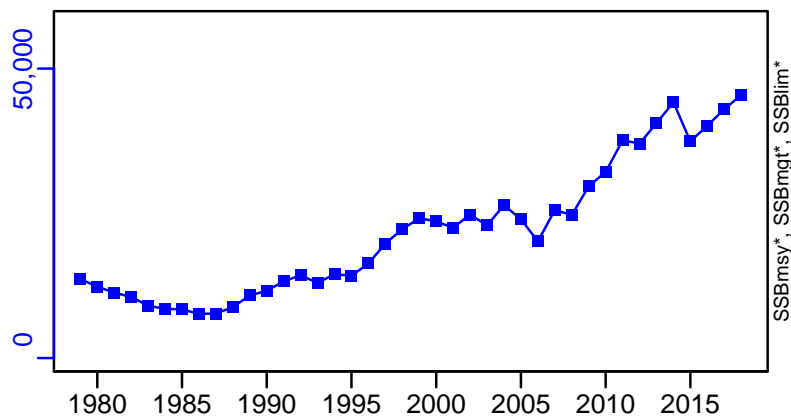
◆ Start Year ◆ End Year * No Data

American lobster Gulf of Maine / Georges Bank [LOBSTERGOMGB]

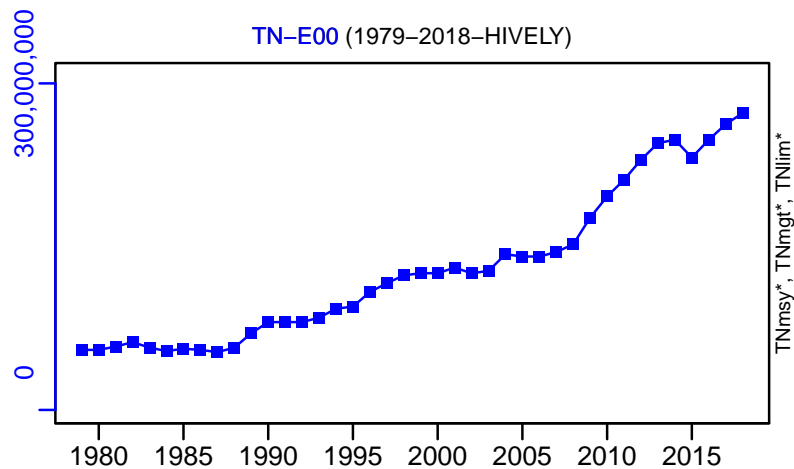
TB*



SSB-MT (1979–2018–HIVELY)



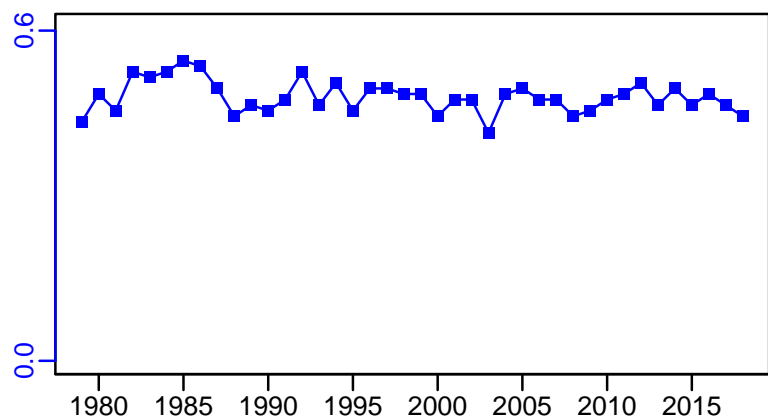
TN-E00 (1979–2018–HIVELY)



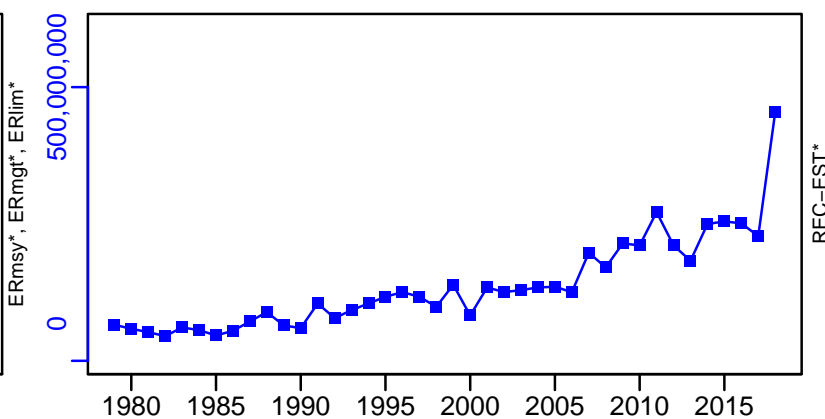
F*



ER-ratio (1979–2018–HIVELY)

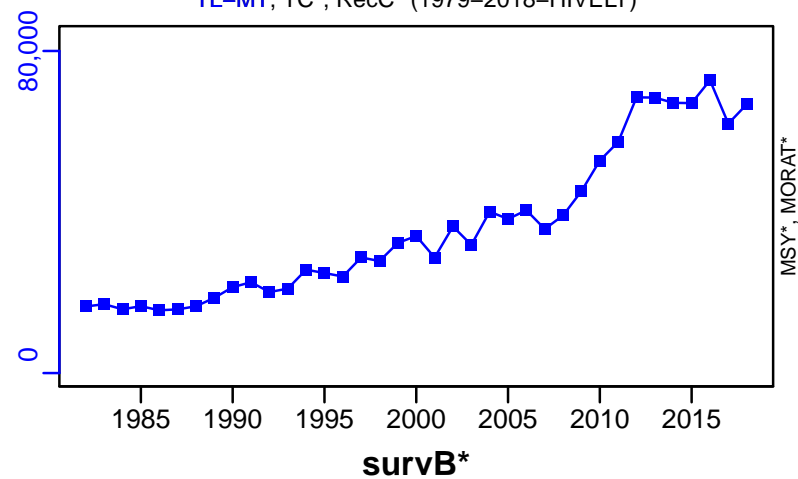


R-E00 (1979–2018–HIVELY)

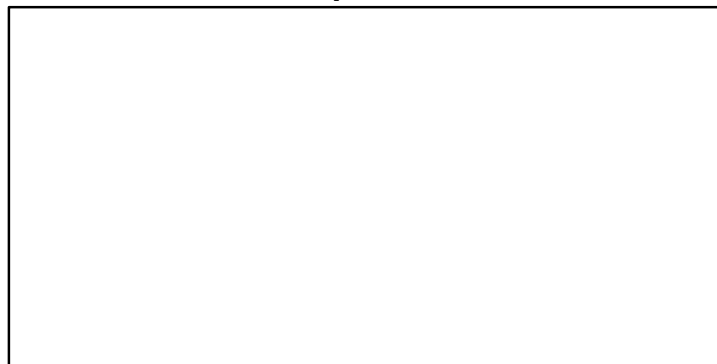


American lobster Gulf of Maine / Georges Bank [LOBSTERGOMGB]

TL-MT, TC*, RecC* (1979-2018-HIVELY)



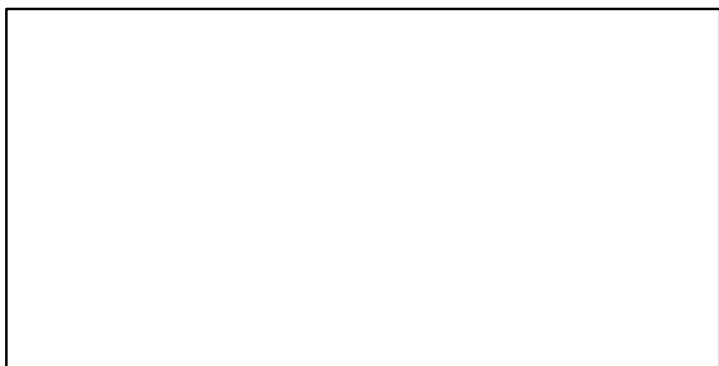
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



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

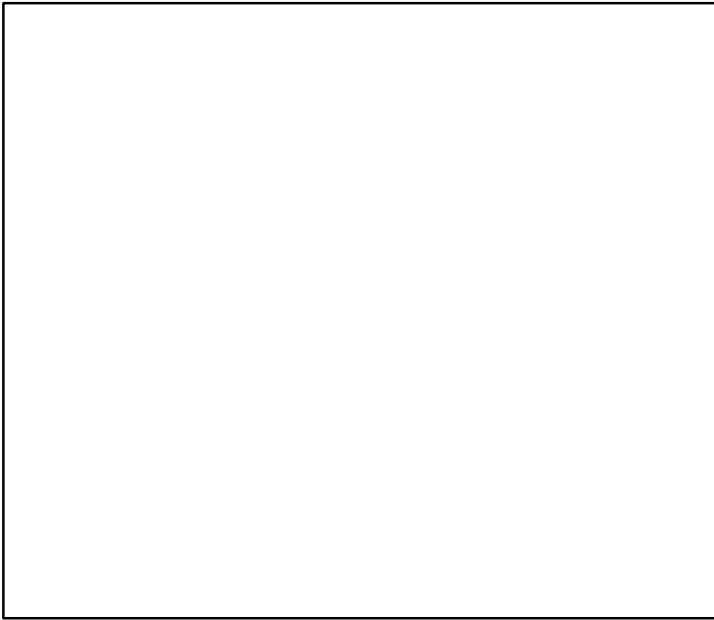
American lobster Southern New England [LOBSTERSNE]

Metadata	
Scientific Name	Homarus americanus
Current Assess ID	ASMFC-LOBSTERSNE-1979-2018-HIVELY
Area	Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2018, 2007

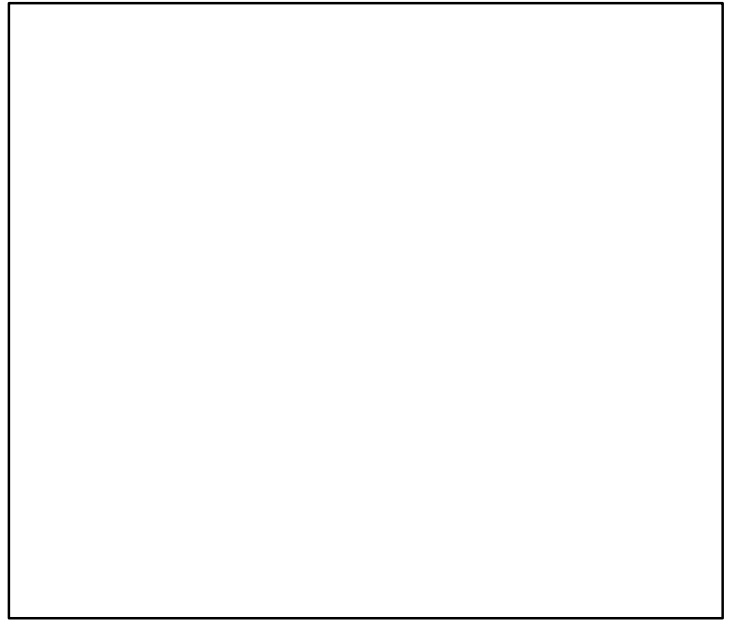
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2018	0.285
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2018	966	Females	-
TN	TN-E00	2018	6×10^6	Both	-
R	R-E00	2018	2×10^6	Both	-
F	F-1/yr	2007	1.04	-	-
ER	ER-ratio	2018	0.27	Both	-
TC	-	-	-		
TL	TL-MT	2018	1243		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

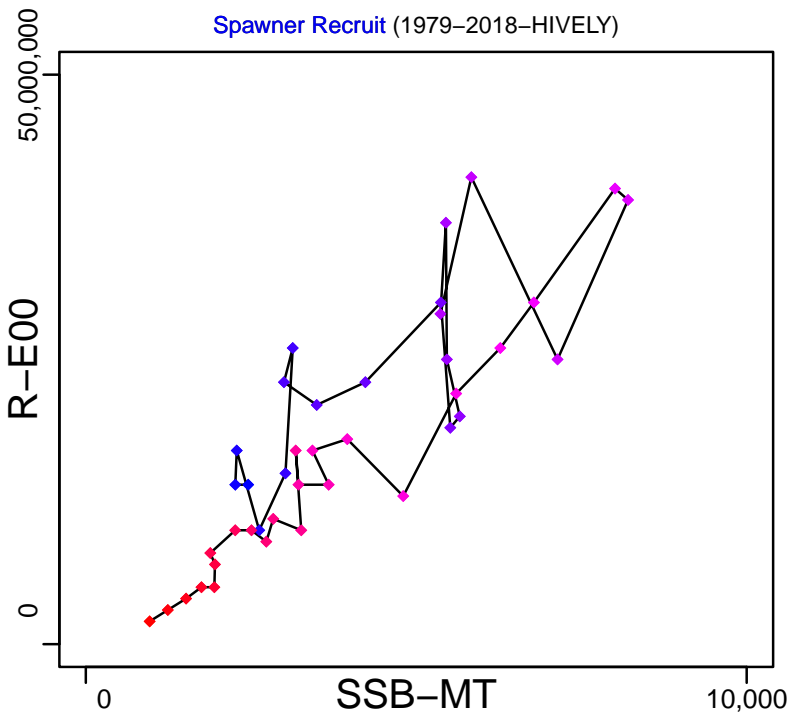
Kobe MSY*



Kobe MGT*



Spawner Recruit (1979–2018–HIVELY)



Production*



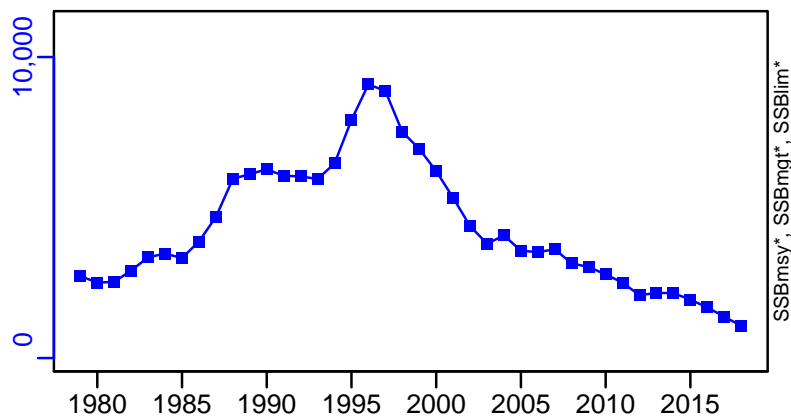
◆ Start Year ◆ End Year * No Data

American lobster Southern New England [LOBSTERSNE]

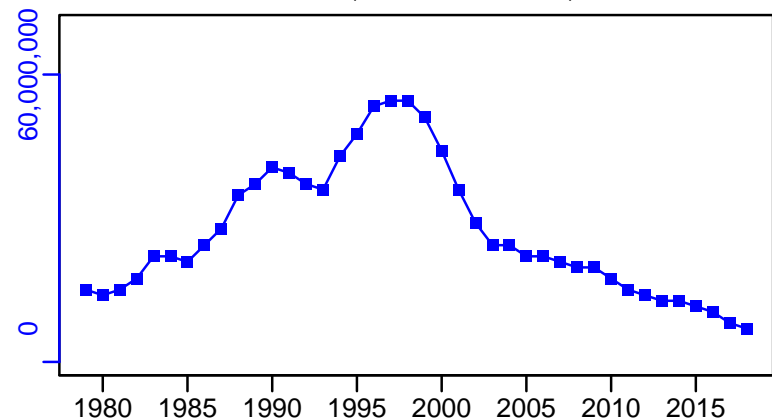
TB*



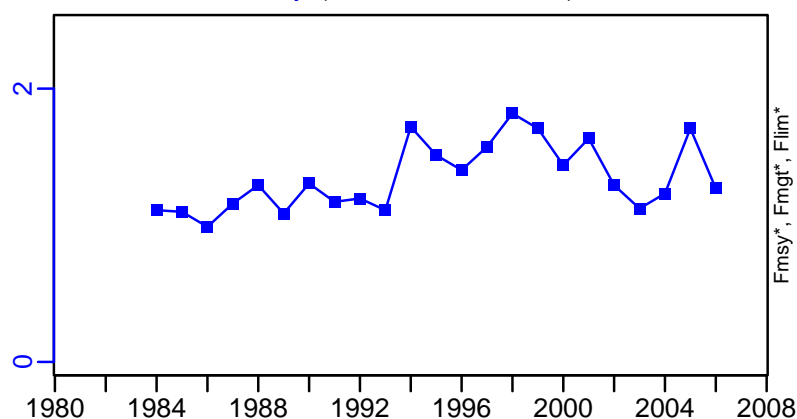
SSB-MT (1979–2018–HIVELY)



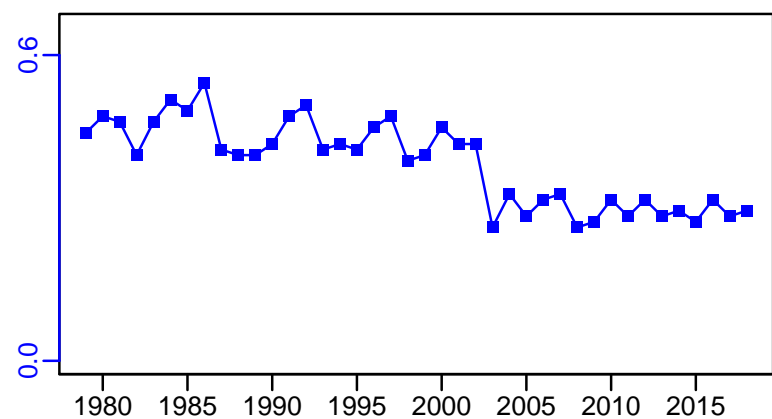
TN-E00 (1979–2018–HIVELY)



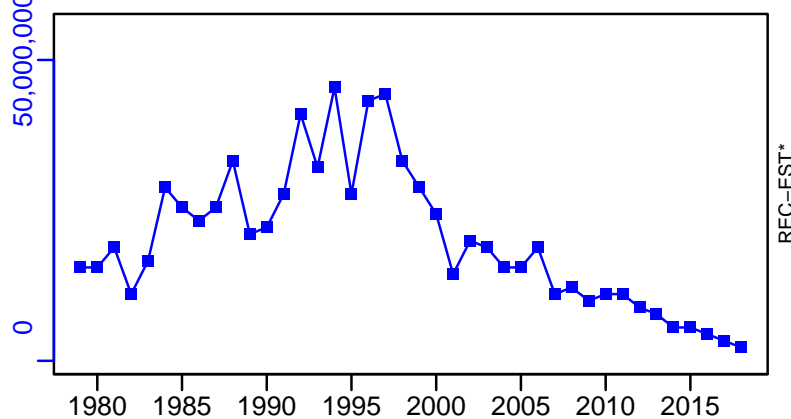
F-1/yr (1981–2007–STANTON)



ER-ratio (1979–2018–HIVELY)



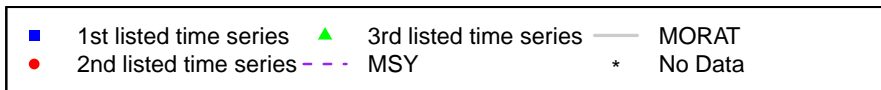
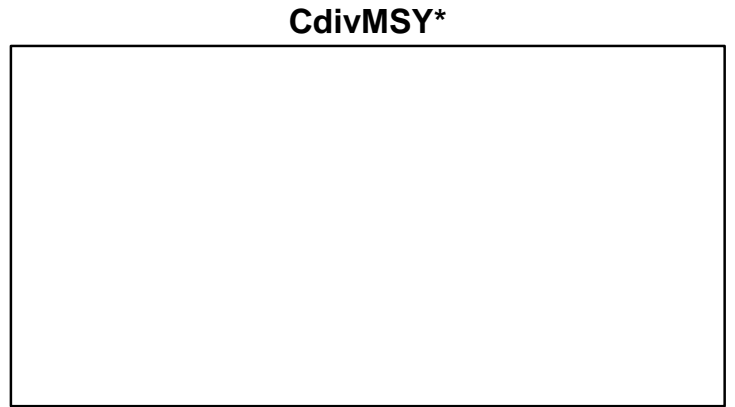
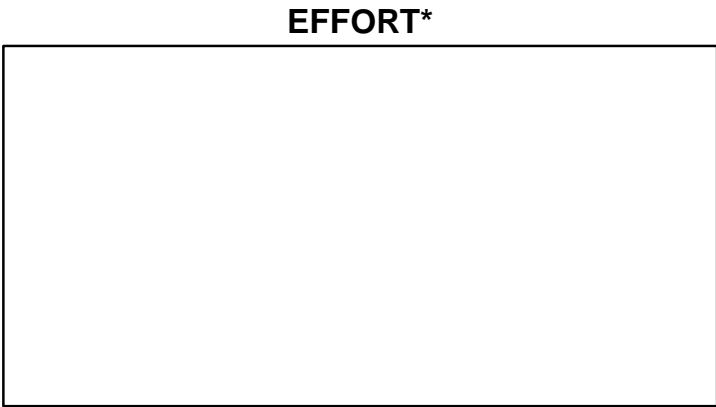
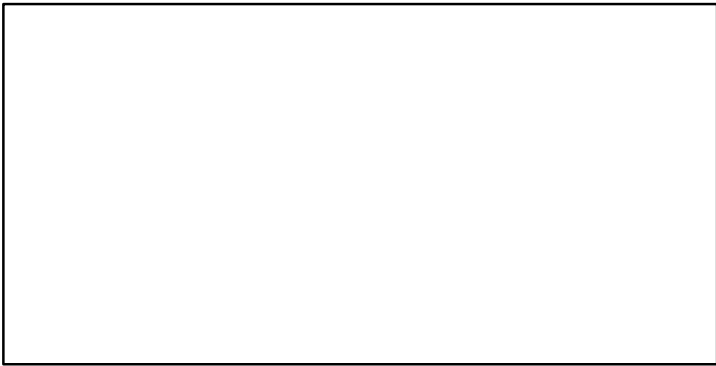
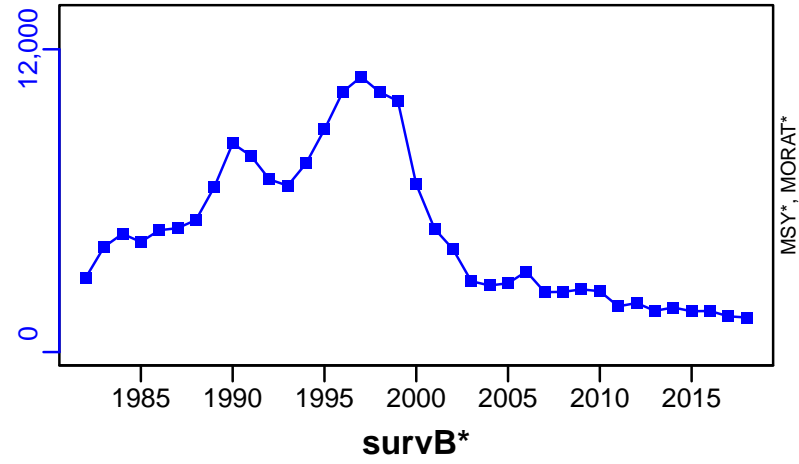
R-E00 (1979–2018–HIVELY)



American lobster Southern New England [LOBSTERSNE]

TL-MT, TC*, RecC* (1979-2018-HIVELY)

TAC*, Cpair*, Cadv*



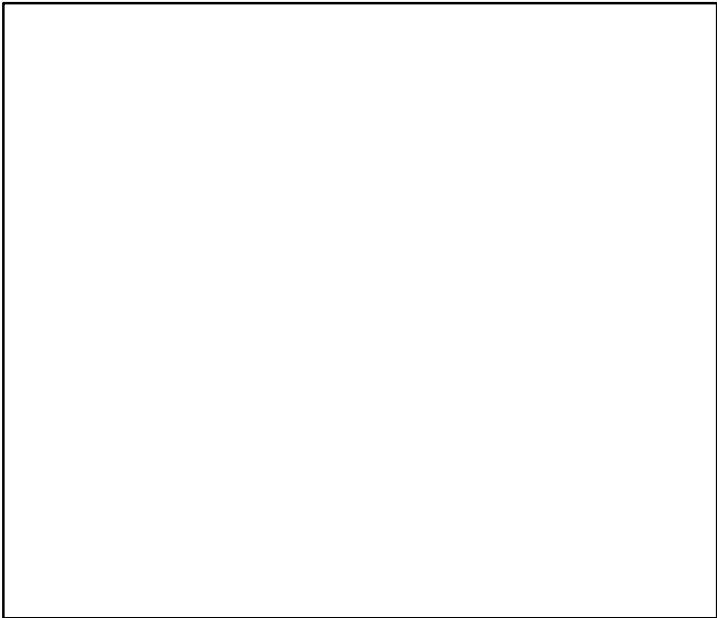
Little skate Gulf of Maine / Cape Hatteras [LSKAT5YCHATT]

Metadata	
Scientific Name	Leucoraja erinacea
Current Assess ID	NEFSC-LSKAT5YCHATT-1968-2006-SOSEBEE
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2006

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2006	3320		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

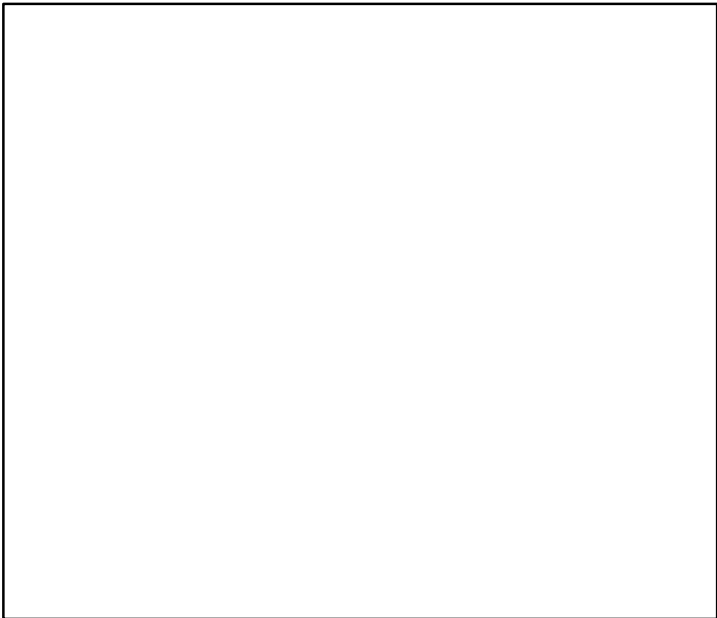
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

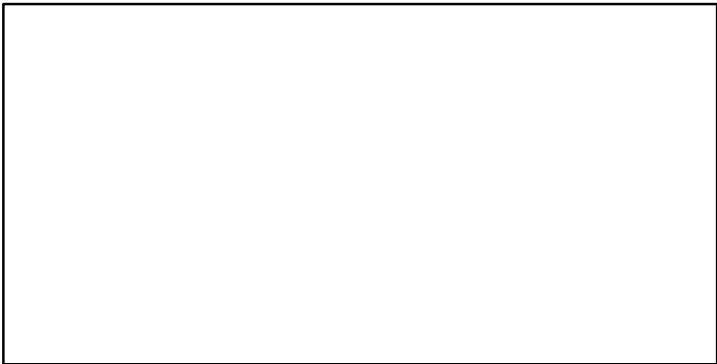
TB*



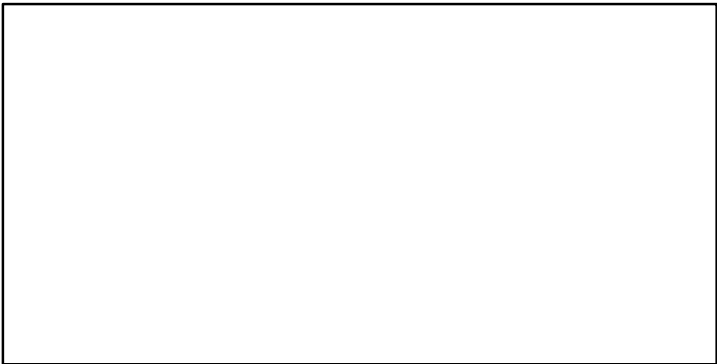
SSB*



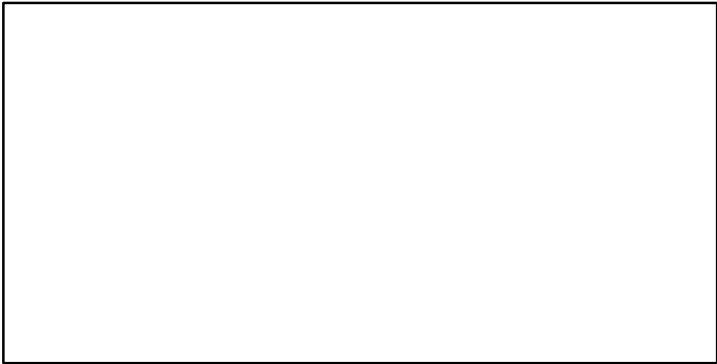
TN *



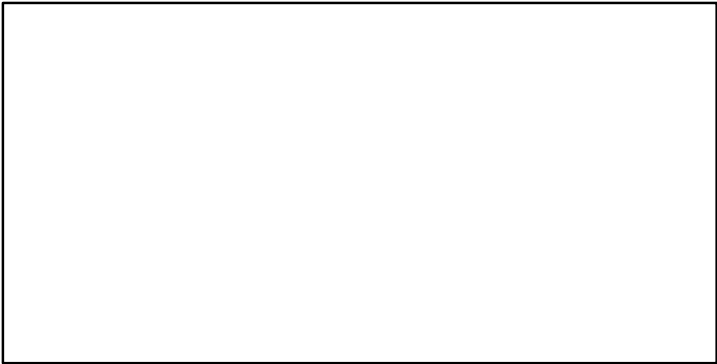
F*



ER*



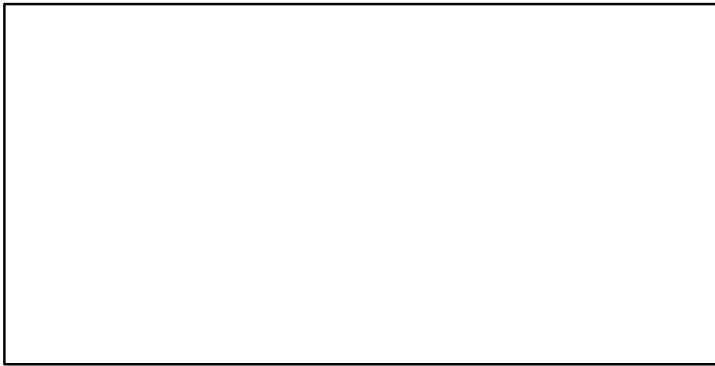
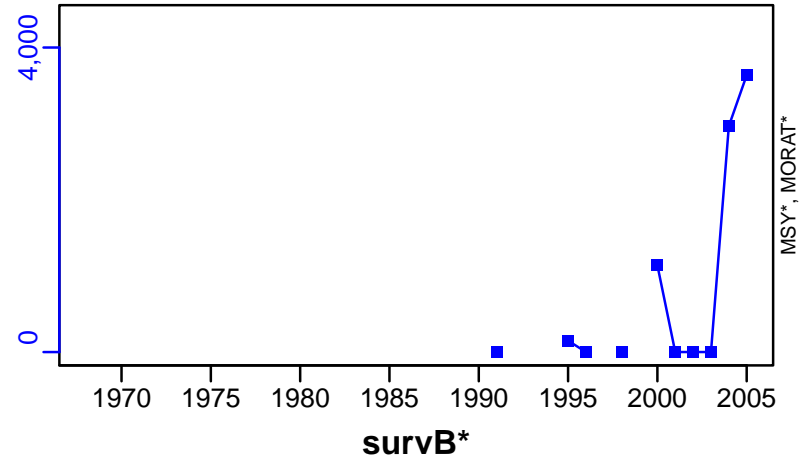
Recruits*



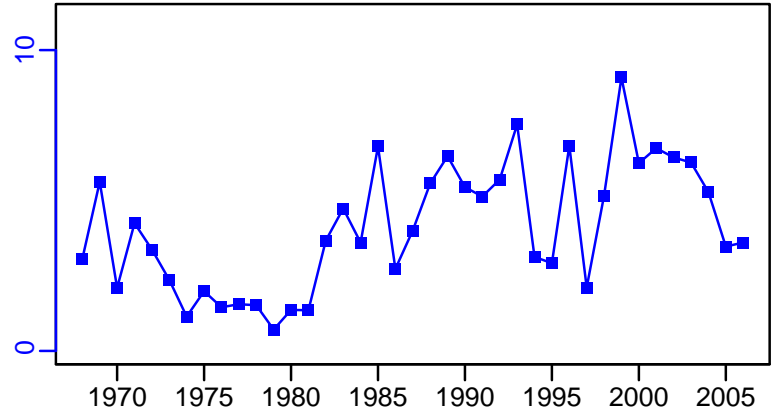
Little skate Gulf of Maine / Cape Hatteras [LSKAT5YCHATT]

TC-MT, TL*, RecC* (1968-2006-SOSEBEE)

TAC*, Cpair*, Cadv*



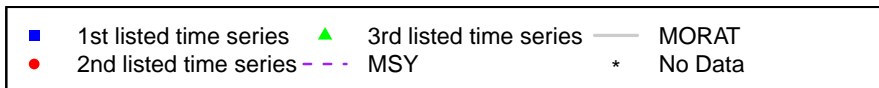
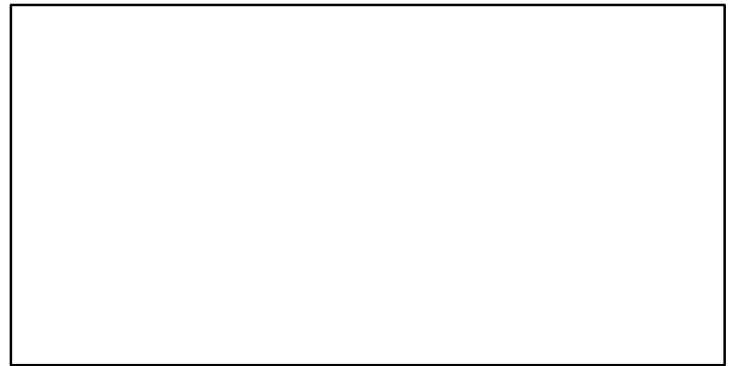
CPUE-kgpertow (1968-2006-SOSEBEE)



EFFORT*



CdivMSY*



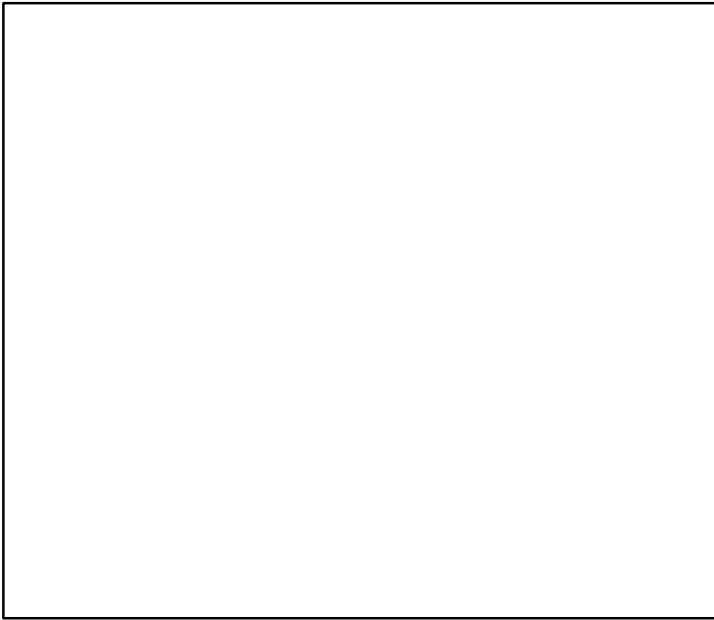
Little skate Georges Bank-Southern New England [LSKAT5ZSNE]

Metadata	
Scientific Name	Leucoraja erinacea
Current Assess ID	NEFSC-LSKAT5ZSNE-1968-2019-SISIMP2021-2
Area	Georges Bank-Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2019

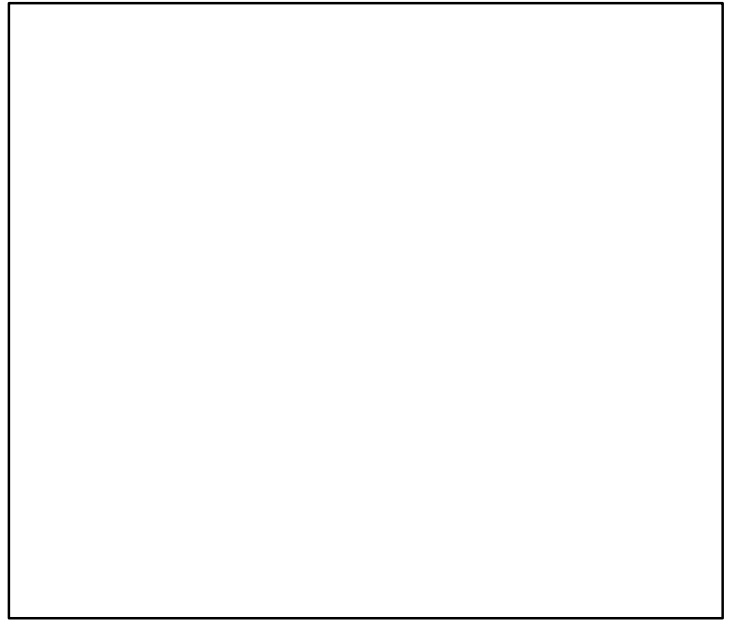
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	8840		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

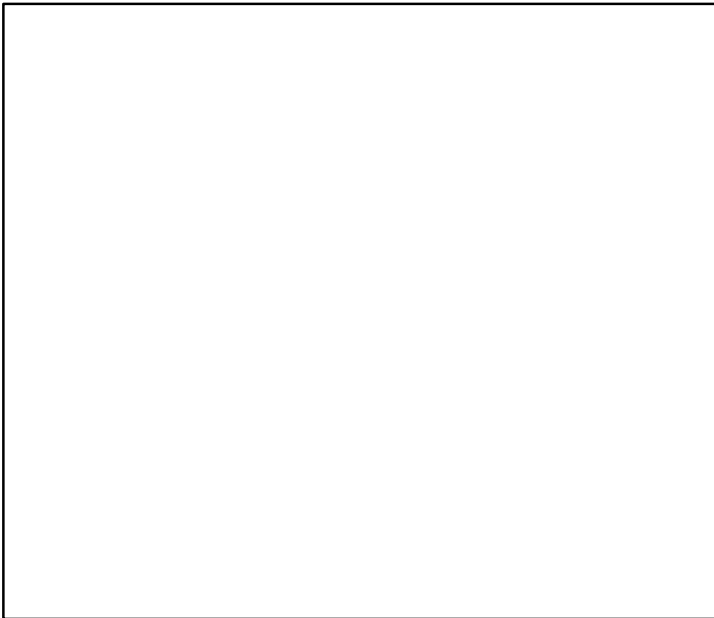
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



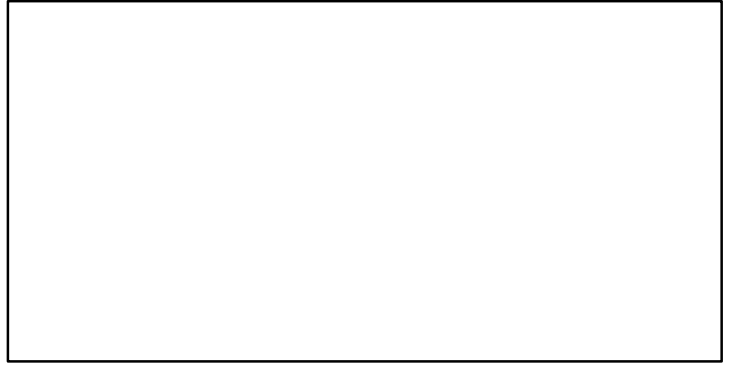
◆ Start Year ◆ End Year * No Data

Little skate Georges Bank–Southern New England [LSKAT5ZSNE]

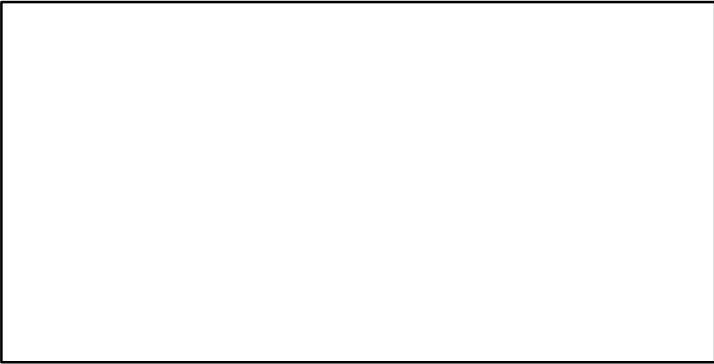
TB*



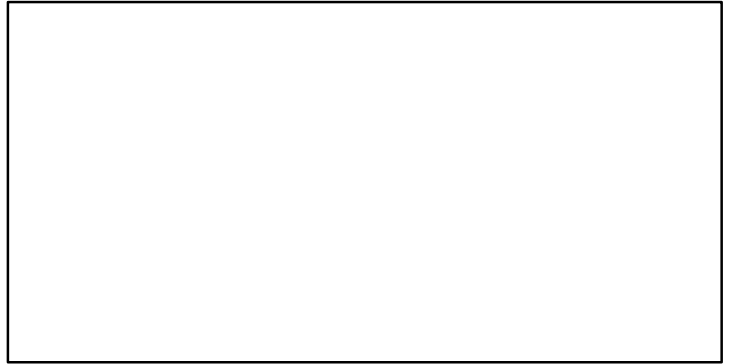
SSB*



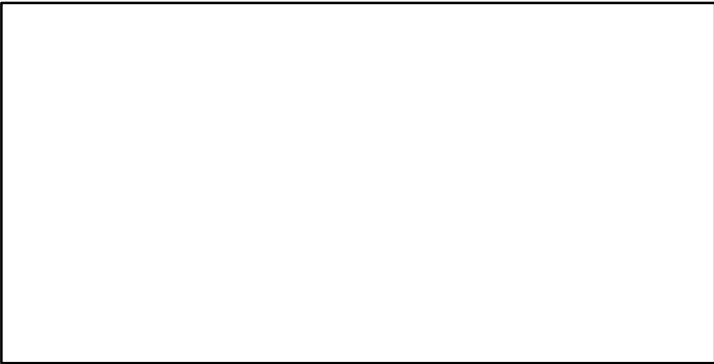
TN *



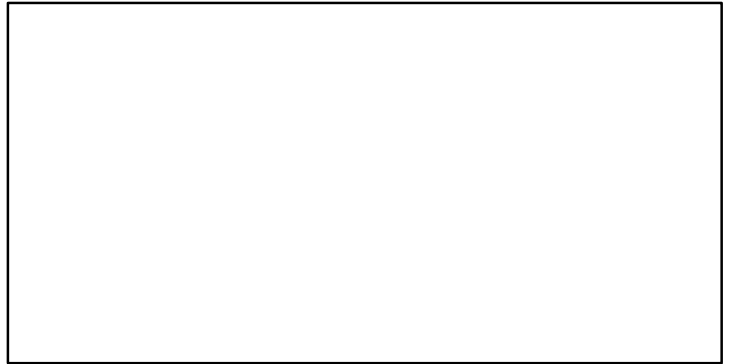
F*



ER*

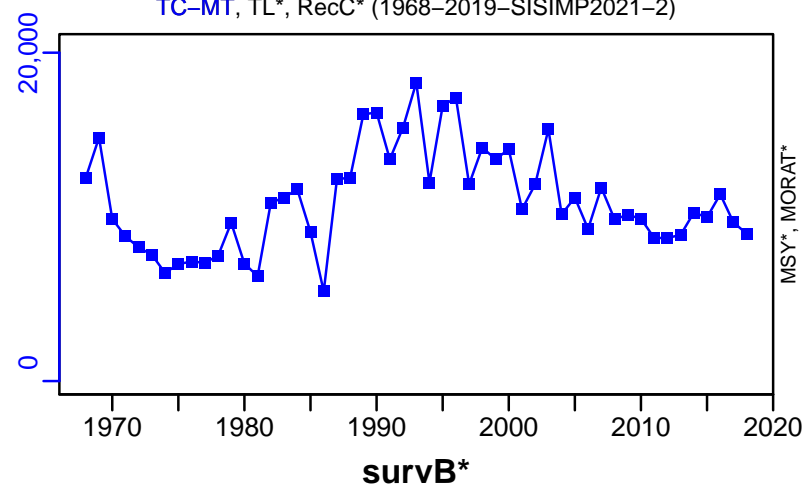


Recruits*

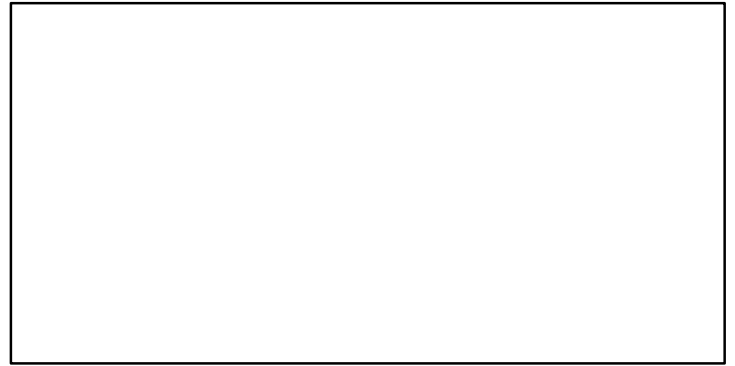


Little skate Georges Bank–Southern New England [LSKAT5ZSNE]

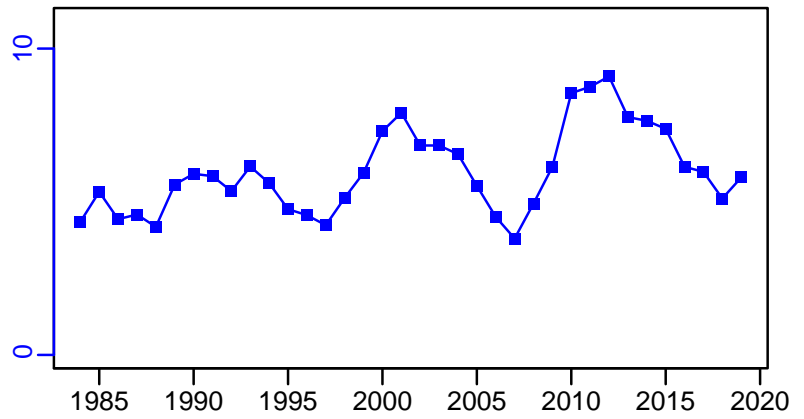
TC–MT, TL*, RecC* (1968–2019–SISIMP2021–2)



TAC*, Cpair*, Cadv*



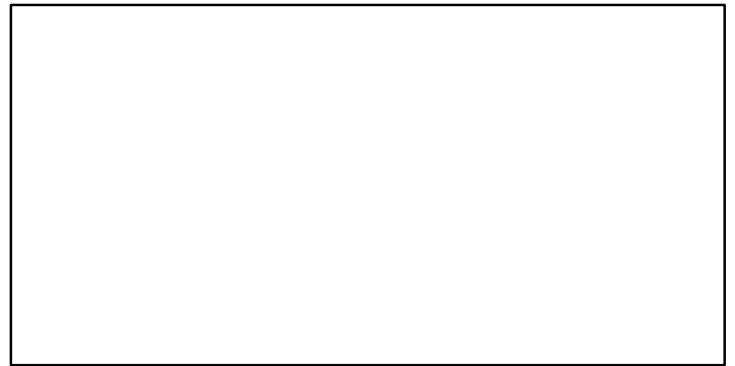
CPUE–index (1968–2019–SISIMP2021–2)



EFFORT*



CdivMSY*



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

Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

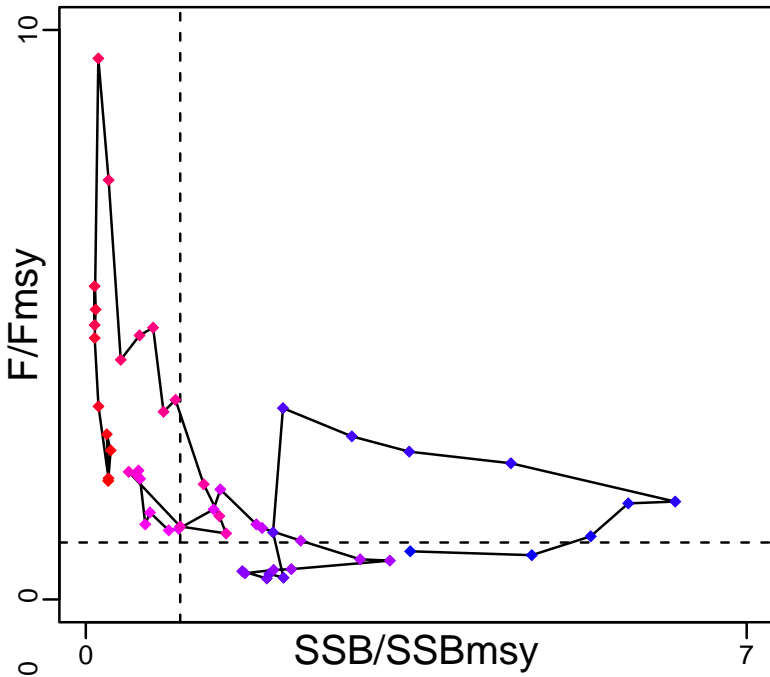
Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	NEFSC-MACK5YCHATT-1960-2019-SISIMP2021-2
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	181,000
Fmsy	Fmsy-1/yr	2019	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	90,500
Flim	-	-	-
ERlim	-	-	-

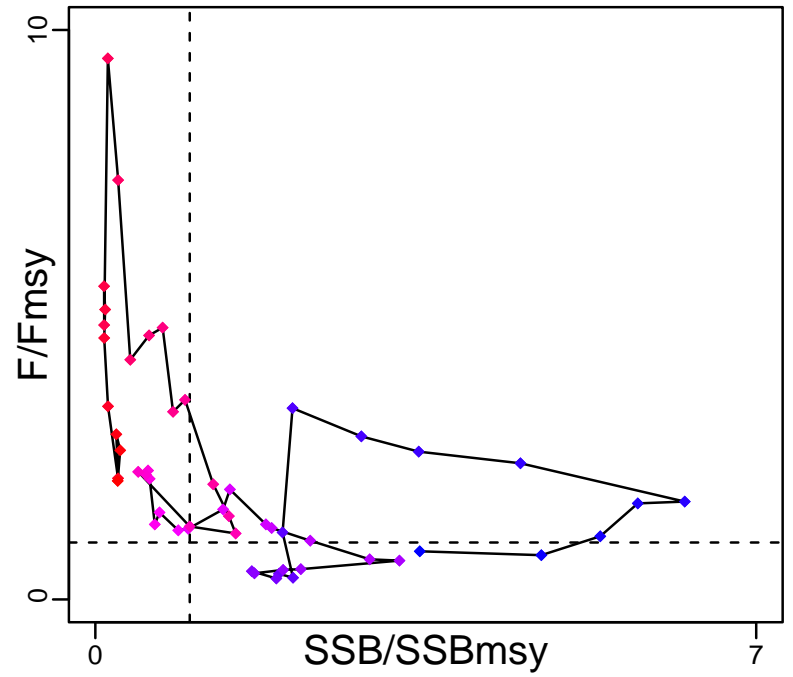
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	42,900	-	-
TN	-	-	-	-	-
R	R-E00	2019	1.36×10^8	-	1
F	F-1/yr	2019	0.458	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	16,300		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.237		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	2.082		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

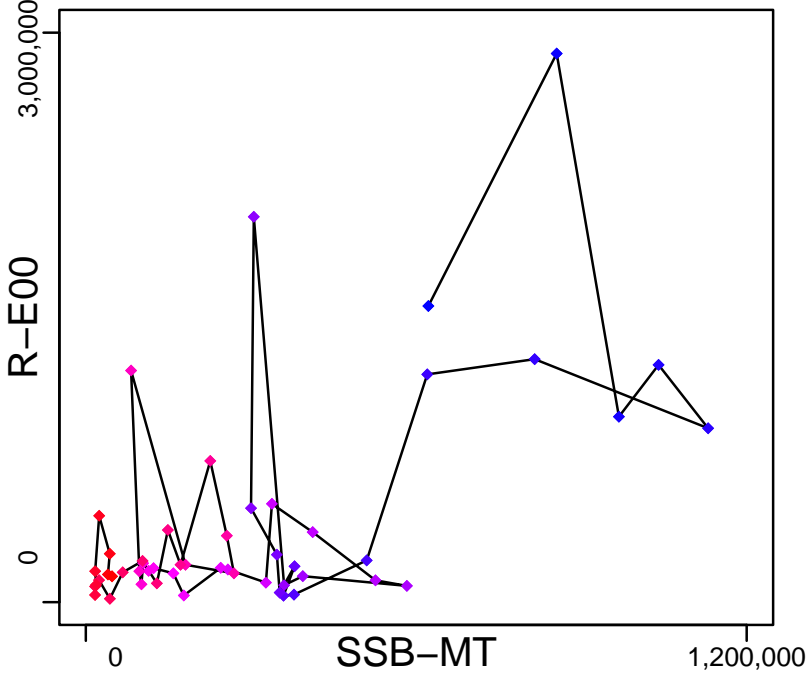
Kobe MSYpref (1960–2019–SISIMP2021–2)



Kobe MGTpref (1960–2019–SISIMP2021–2)



Spawner Recruit (1960–2019–SISIMP2021–2)



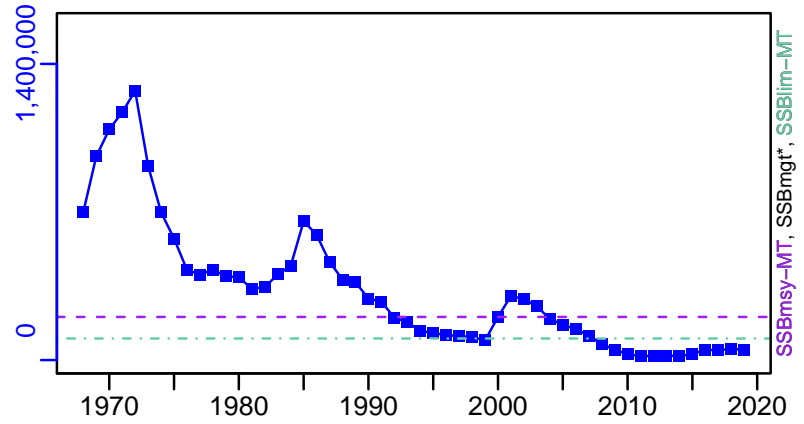
◆ Start Year ◆ End Year * No Data

Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

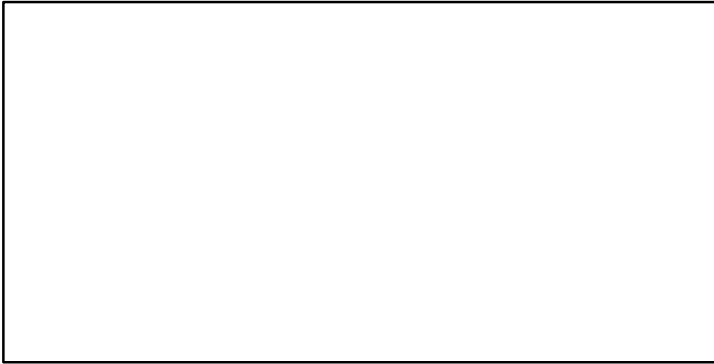
TB*



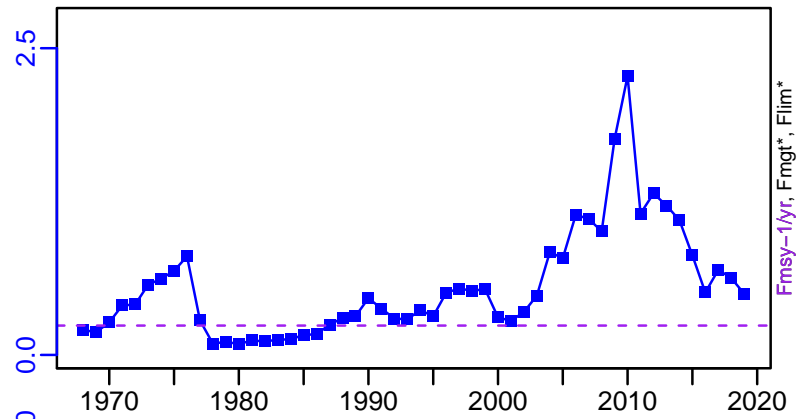
SSB-MT (1960–2019–SISIMP2021–2)



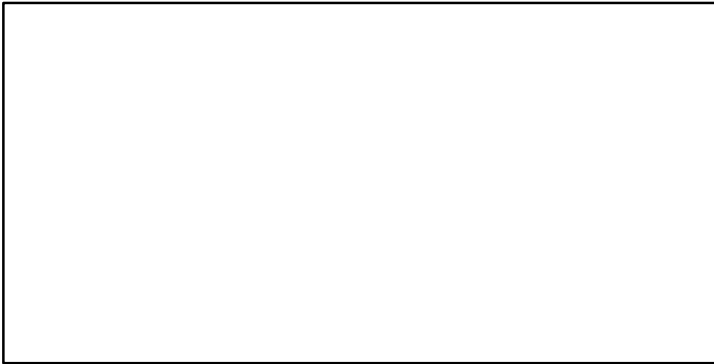
TN *



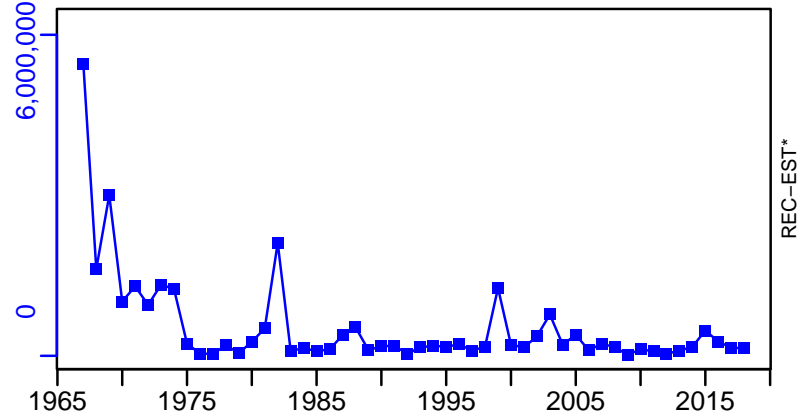
F-1/yr (1960–2019–SISIMP2021–2)



ER*



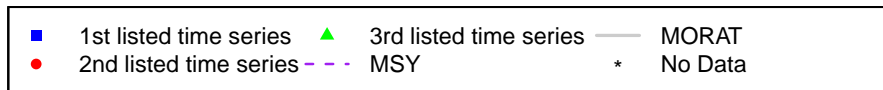
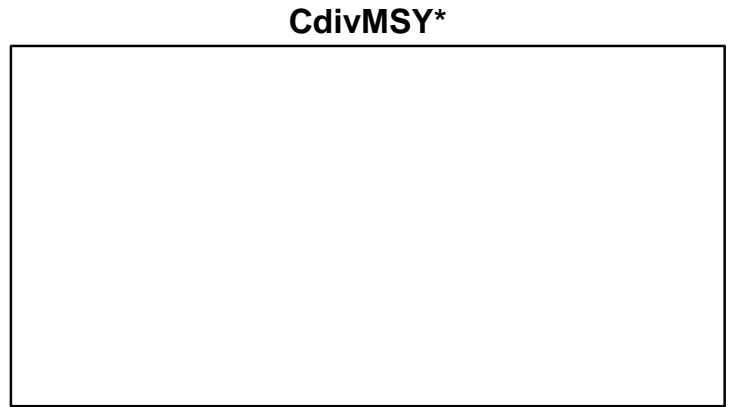
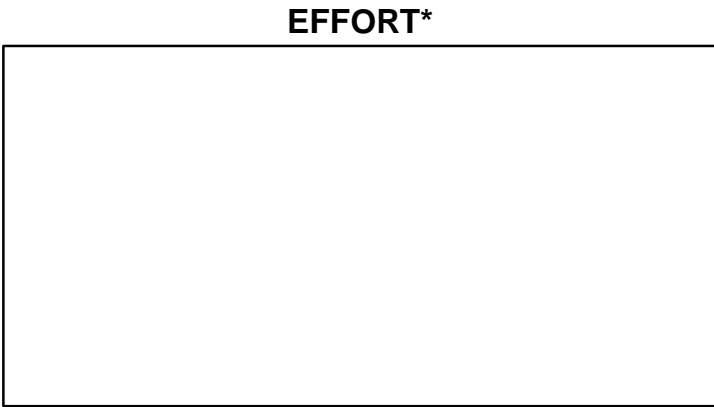
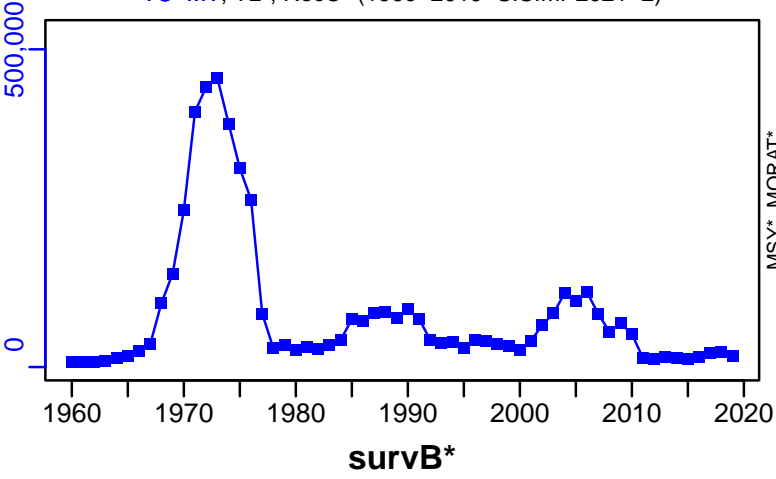
R-E00 (1960–2019–SISIMP2021–2)



Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

TC-MT, TL*, RecC* (1960-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



Atlantic menhaden Atlantic [MENATLAN]

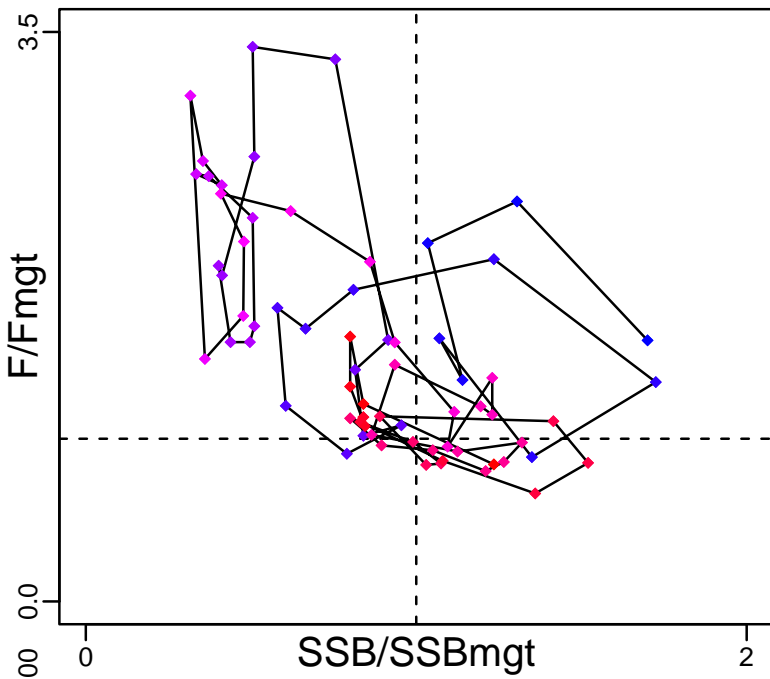
Metadata	
Scientific Name	Brevoortia tyrannus
Current Assess ID	ASMFC-MENATLAN-1955-2021-HIVELY
Area	Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2017, 2021, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-E00eggs	2021	2×10^{15}
Fmgt	Fmgt-1/yr	2021	0.19
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2005	0.5
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

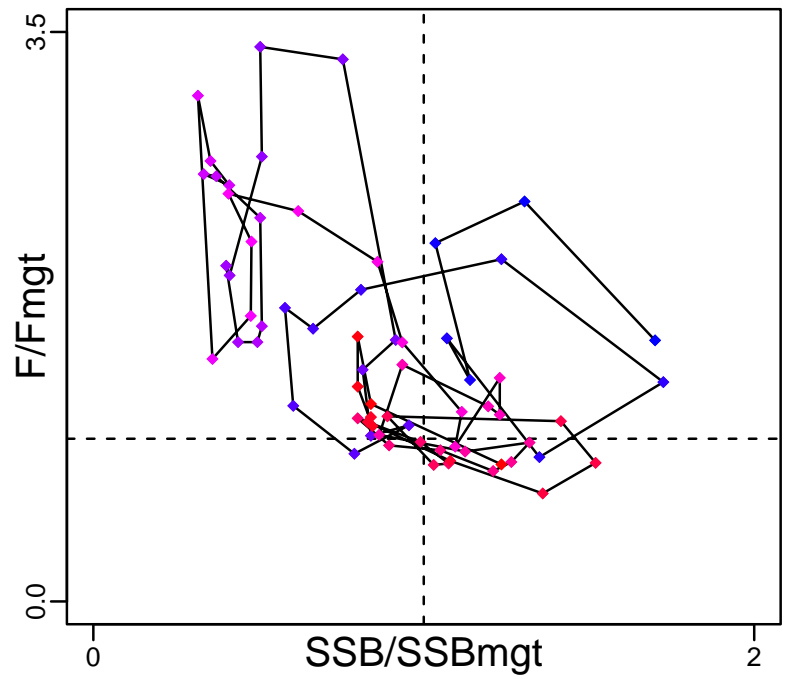
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2021	4,551,064	-	1+
SSB	SSB-E00eggs	2021	2.47×10^{15}	-	-
TN	TN-E00	2017	1.84×10^{10}	-	0-6+
R	R-E00	2021	1.01×10^{11}	-	-
F	F-1/yr	2021	0.16	-	2 to 4
ER	ER-calc-ratio	2021	0.043	-	-
TC	-	-	-		
TL	TL-MT	2021	197,650		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00eggs/SSBmgt-E00eggs	2021	1.235		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.842		
ER/ERmgt	-	-	-		

Atlantic menhaden Atlantic [MENATLAN]

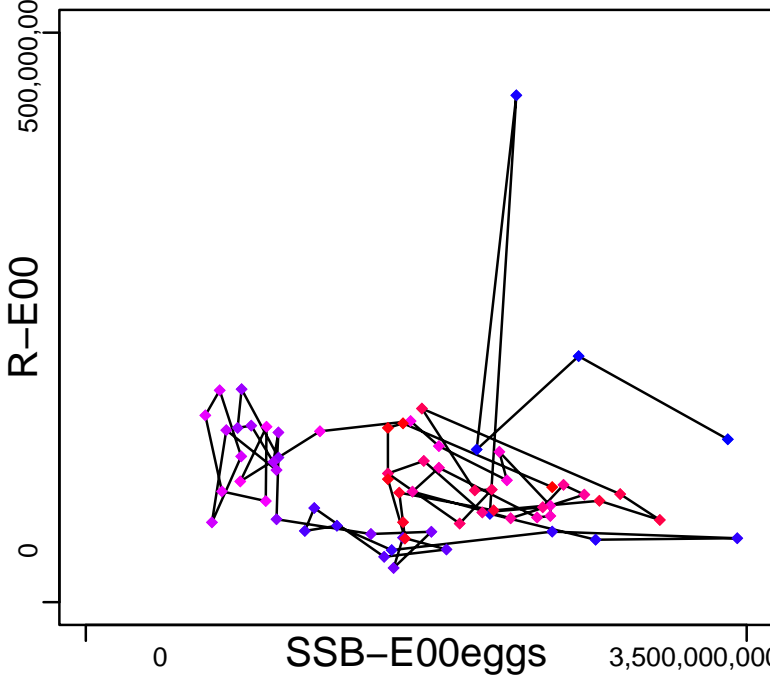
Kobe MSYpref (1955–2021–HIVELY)



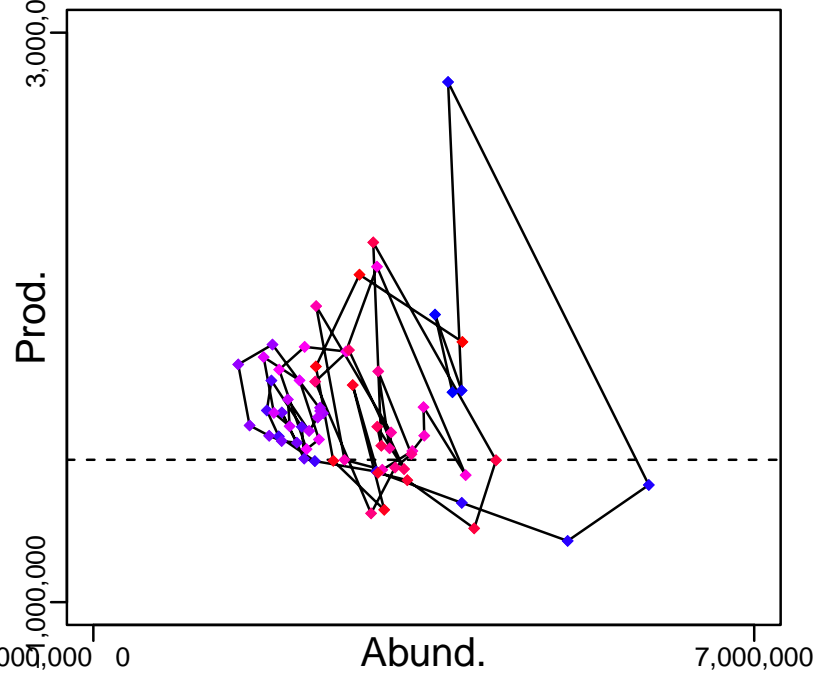
Kobe MGTpref (1955–2021–HIVELY)



Spawner Recruit (1955–2021–HIVELY)

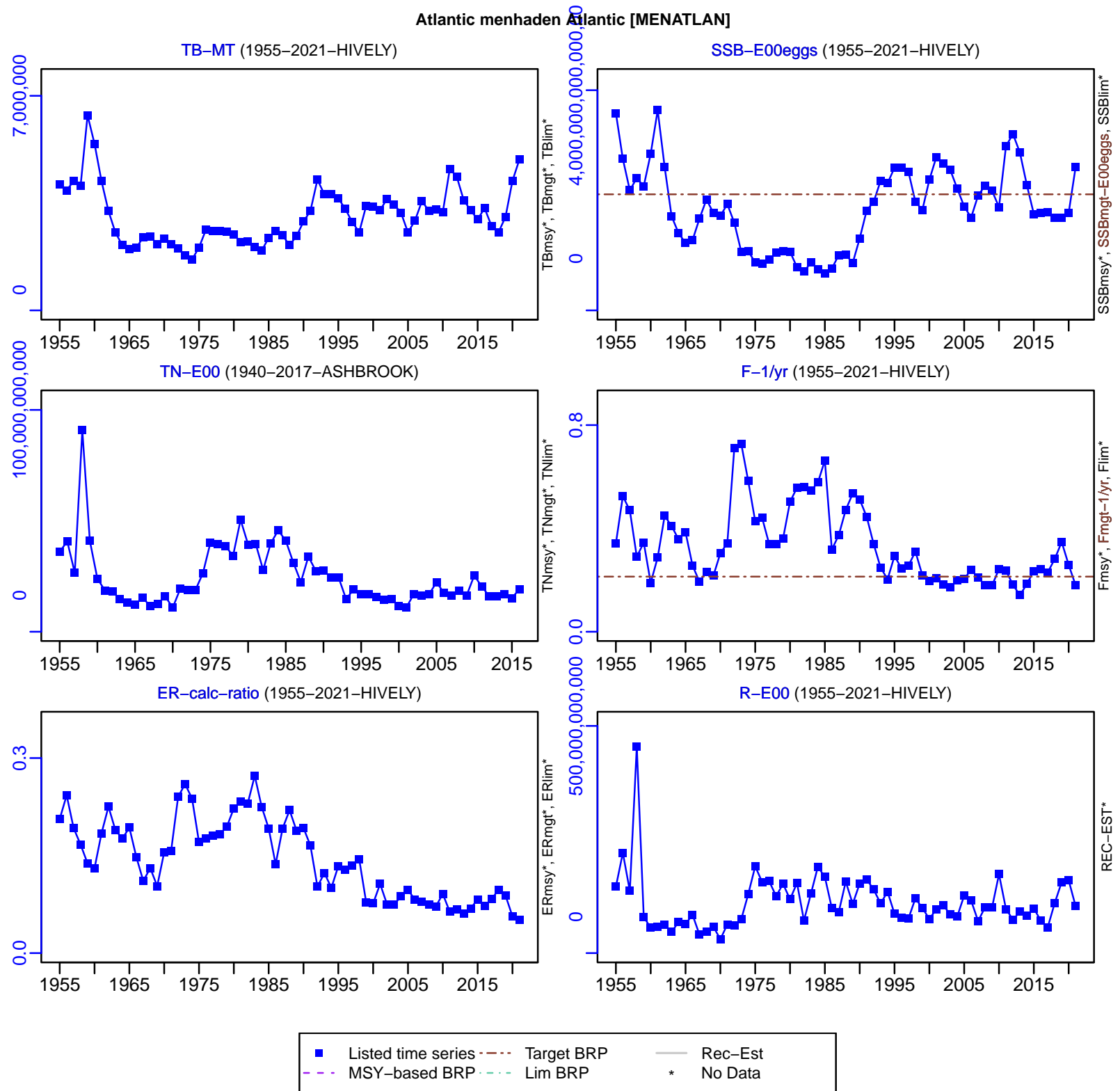


Production (1955–2021–HIVELY)



◆ Start Year ◆ End Year * No Data

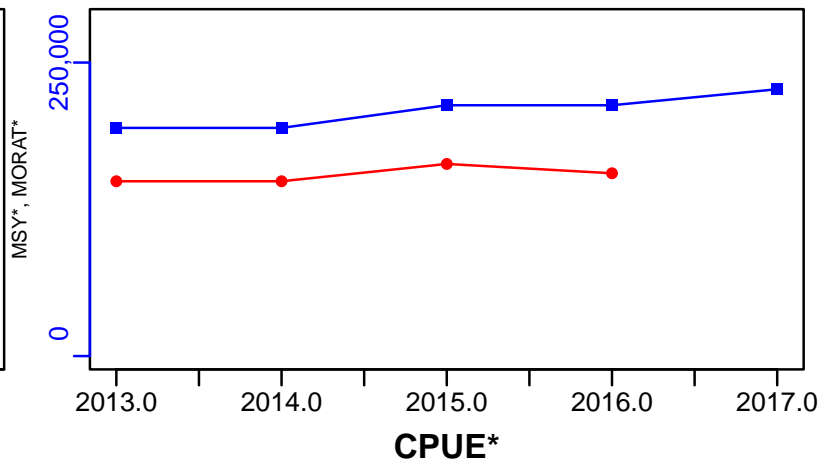
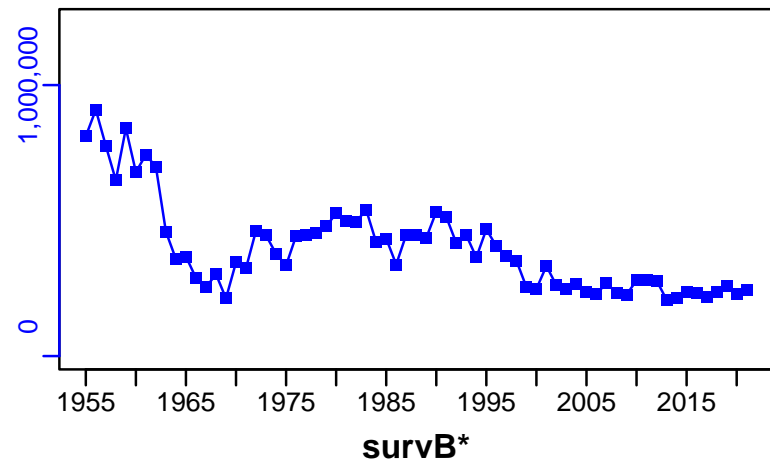
Atlantic menhaden Atlantic [MENATLAN]



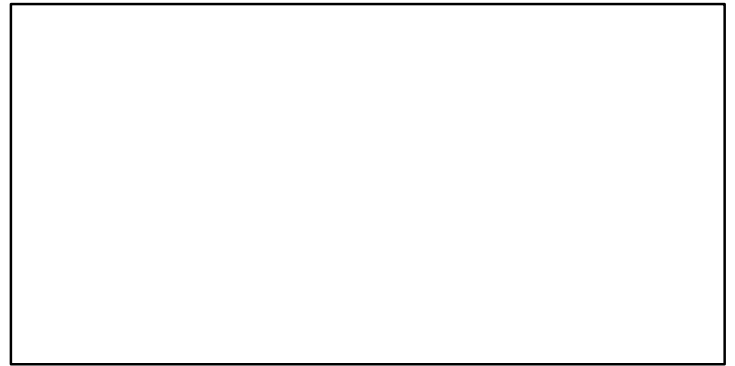
Atlantic menhaden Atlantic [MENATLAN]

TL-MT, TC*, RecC* (1955–2021–HIVELY)

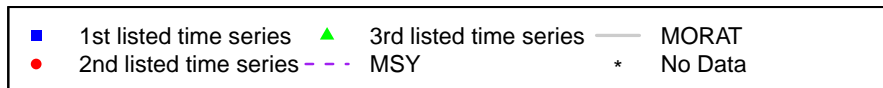
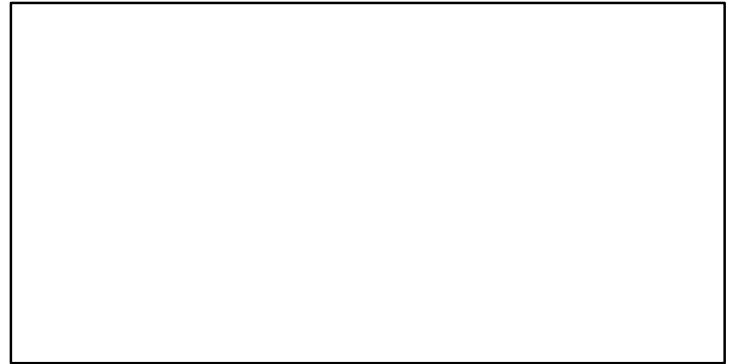
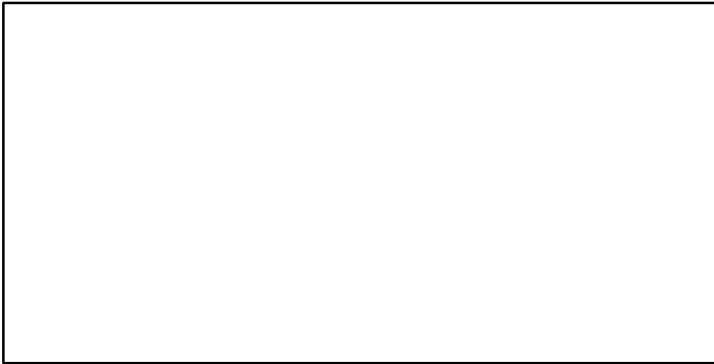
TAC-MT, Cpair-MT, Cadv* (1940–2017–ASHBROOK)



EFFORT*



CdivMSY*



Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

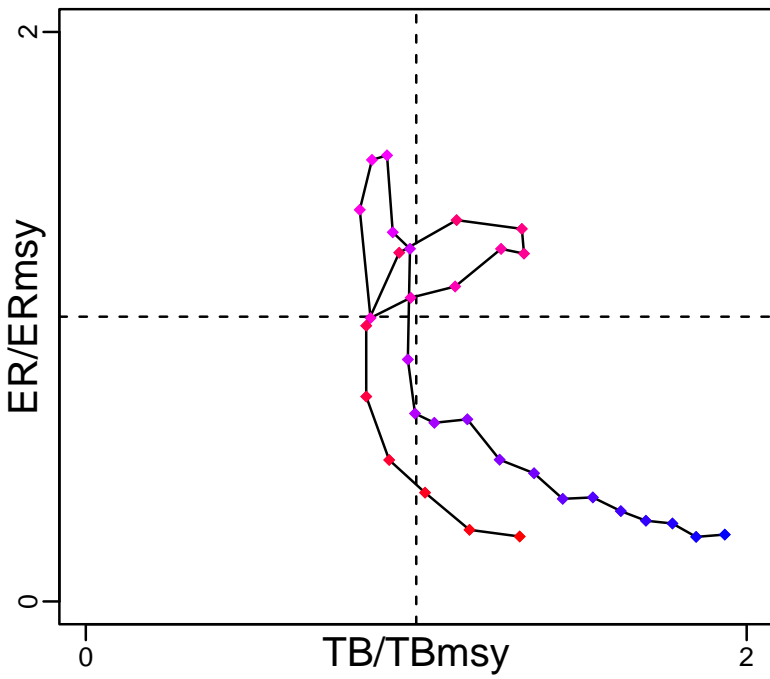
Metadata	
Scientific Name	Lophius americanus
Current Assess ID	NEFSC-MONKGOMNGB-1980-2018-SISIMP2021-2
Area	Gulf of Maine / Northern Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2009, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2010	46,074
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2010	0.44
ERmsy	ERmsy-calc-ratio	2010	0.204
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	9383
M	M-1/yr	2009	0.3
TBlim	TBlim-MT	2010	23,037
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.44
ERlim	-	-	-

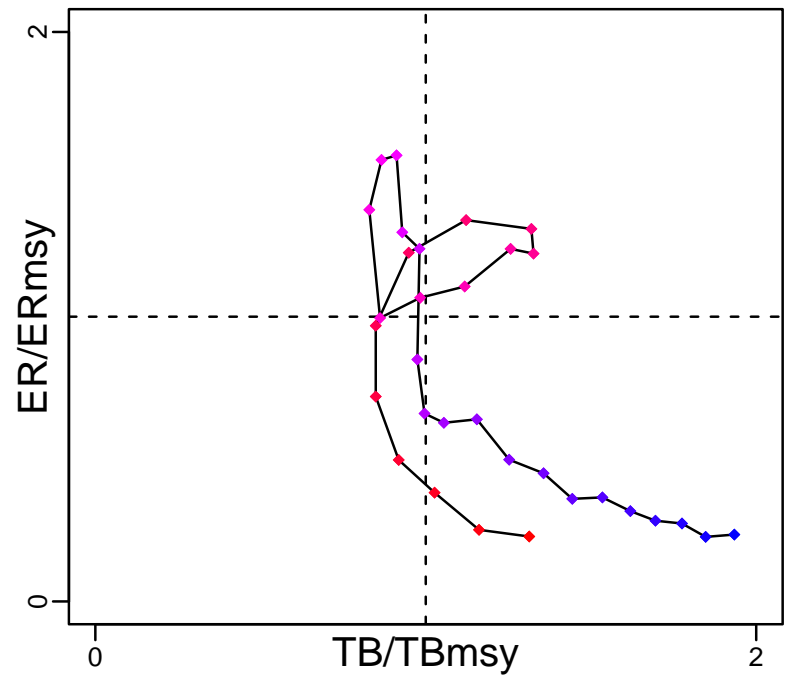
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	60,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2010	11,700,000	-	1
F	F-1/yr	2010	0.08	-	-
ER	ER-calc-ratio	2010	0.046	-	-
TC	TC-MT	2018	8120		
TL	TL-MT	2009	3260		
TB/TBmsy	TB-MT/TBmsy-MT	2010	1.313		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.182		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2010	0.228		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

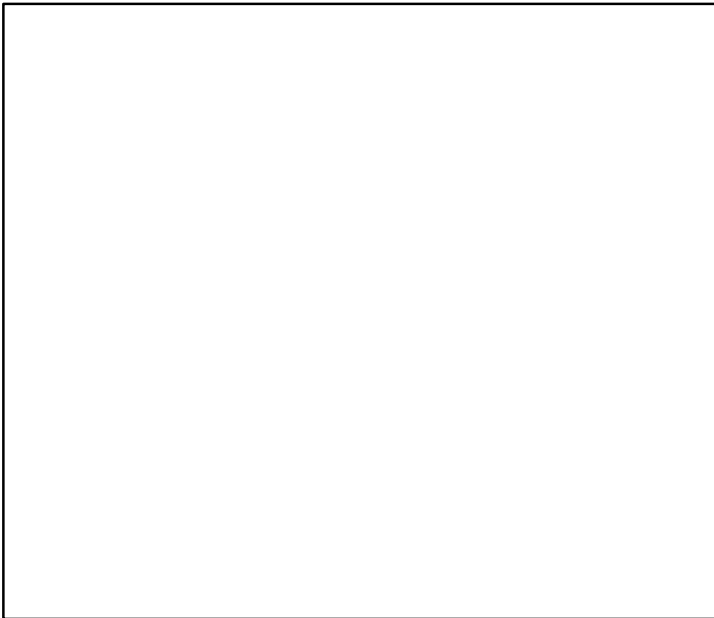
Kobe MSYpref (1979–2010–SISIMP2016)



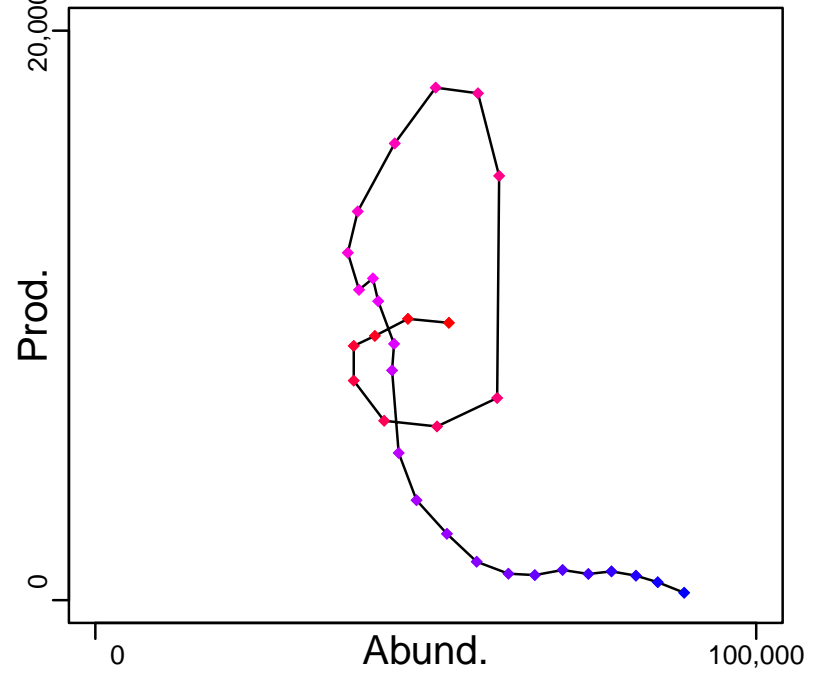
Kobe MGTpref (1979–2010–SISIMP2016)



Spawner Recruit*



Production (1979–2010–SISIMP2016)

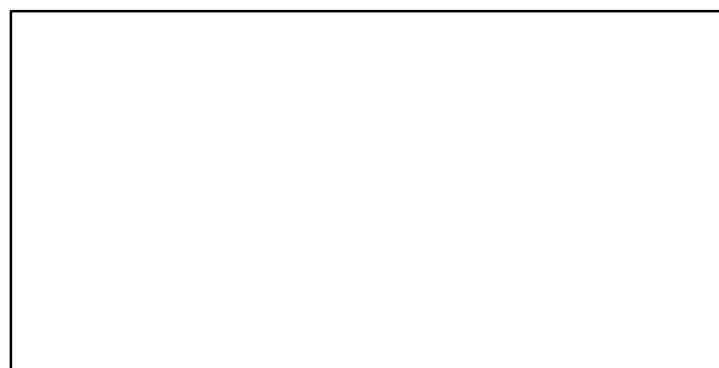
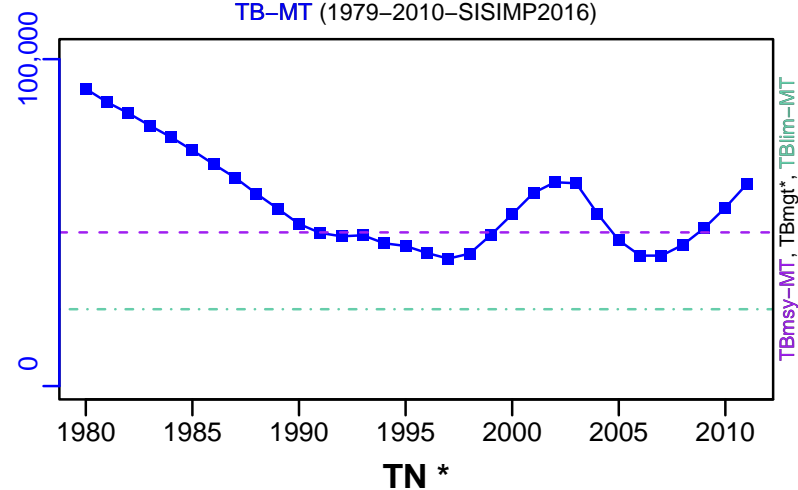


◆ Start Year ◆ End Year * No Data

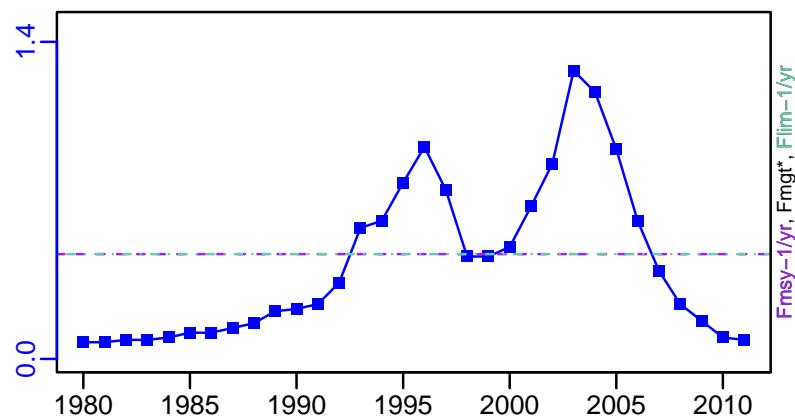
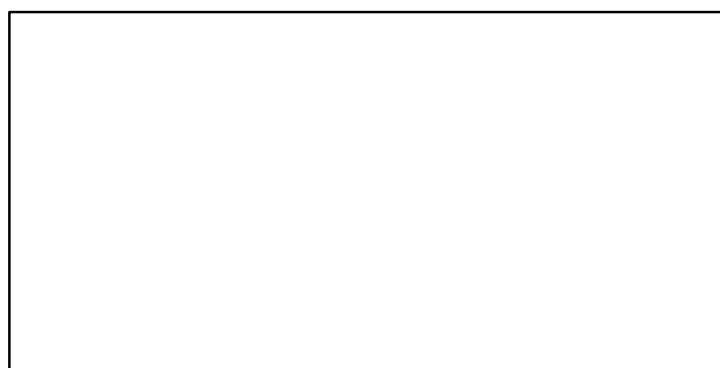
Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

TB-MT (1979–2010–SISIMP2016)

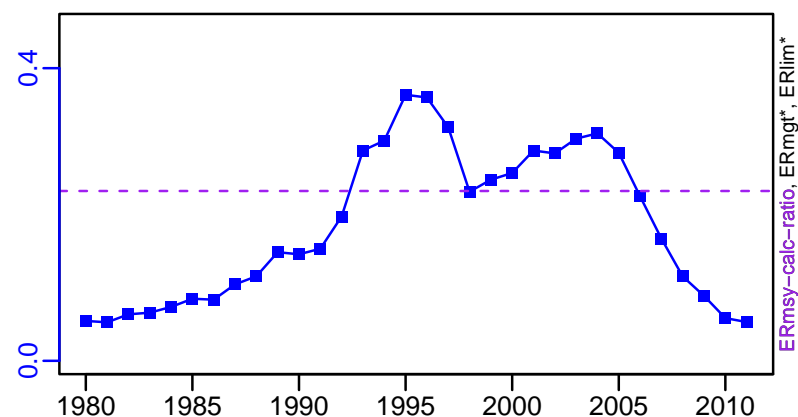
SSB*



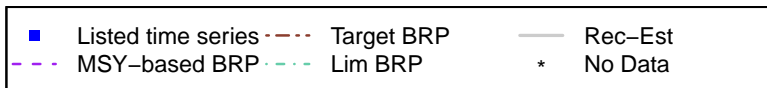
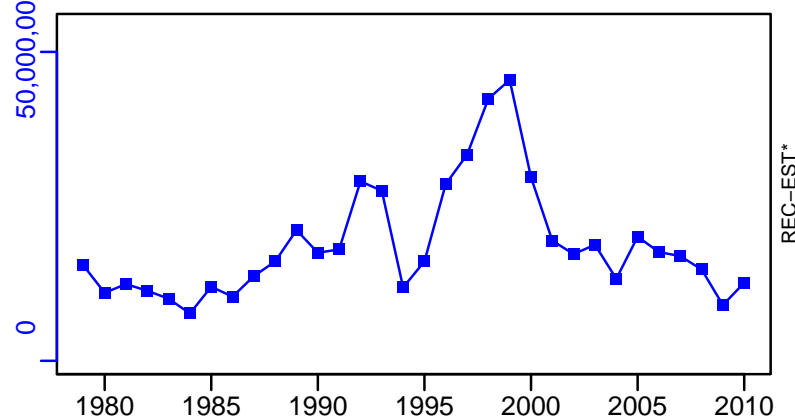
F-1/yr (1979–2010–SISIMP2016)



ER-calc-ratio (1979–2010–SISIMP2016)

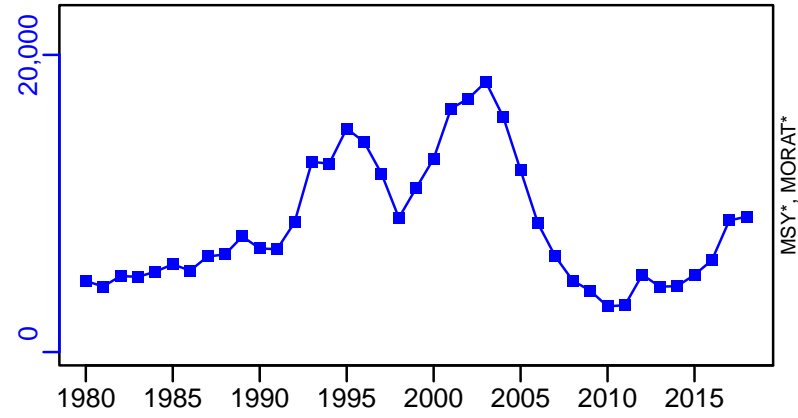


R-E00 (1979–2010–SISIMP2016)



Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

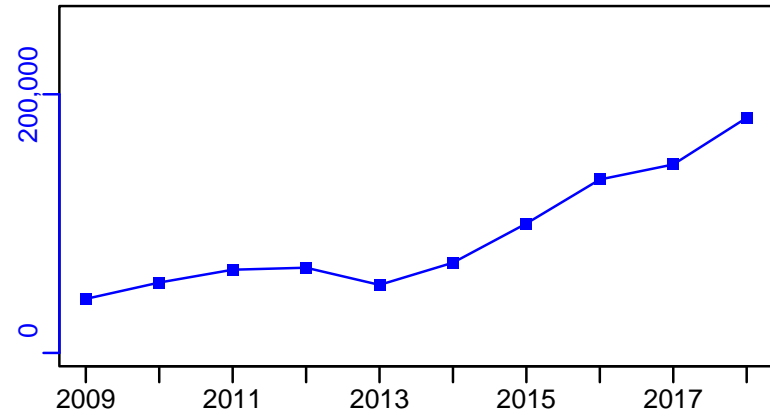
TC-MT, TL*, RecC* (1980-2018-SISIMP2021-2)



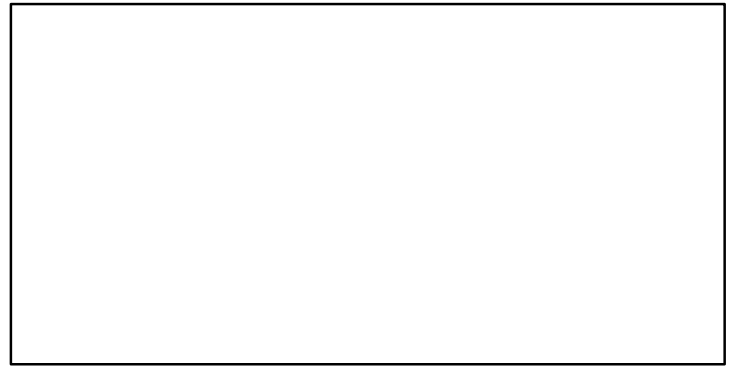
TAC*, Cpair*, Cadv*



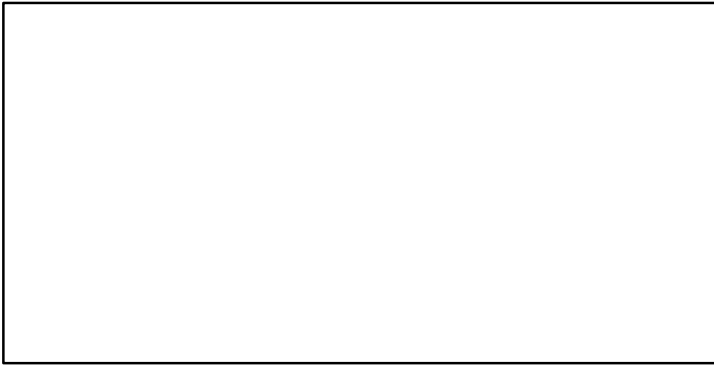
survB-MT (1980-2018-SISIMP2021-2)



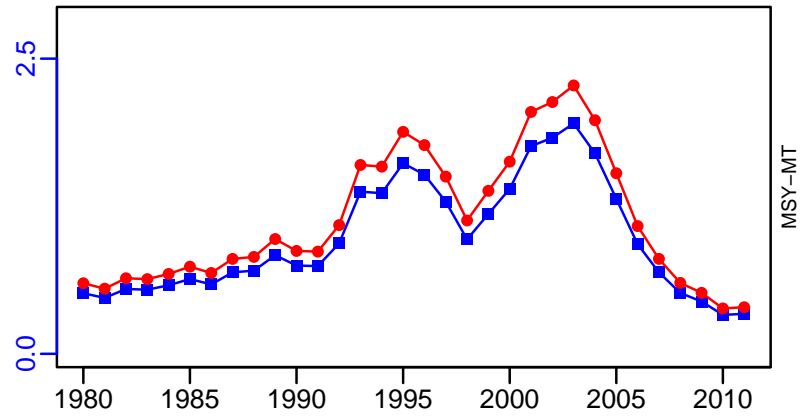
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1979-2010-SISIMP2016)



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

Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

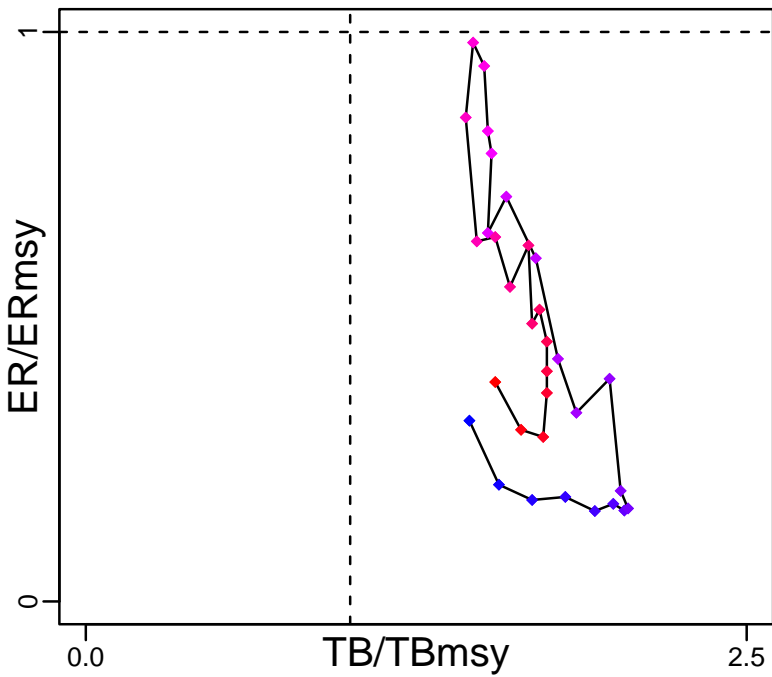
Metadata	
Scientific Name	Lophius americanus
Current Assess ID	NEFSC-MONKSGBMATL-1980-2018-SISIMP2021-2
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2009, 2018

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2010	71,667
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2010	0.37
ERmsy	ERmsy-calc-ratio	2010	0.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2010	14,328
M	M-1/yr	2009	0.3
TBlim	TBlim-MT	2010	35,834
SSBlim	-	-	-
Flim	Flim-1/yr	2010	0.37
ERlim	-	-	-

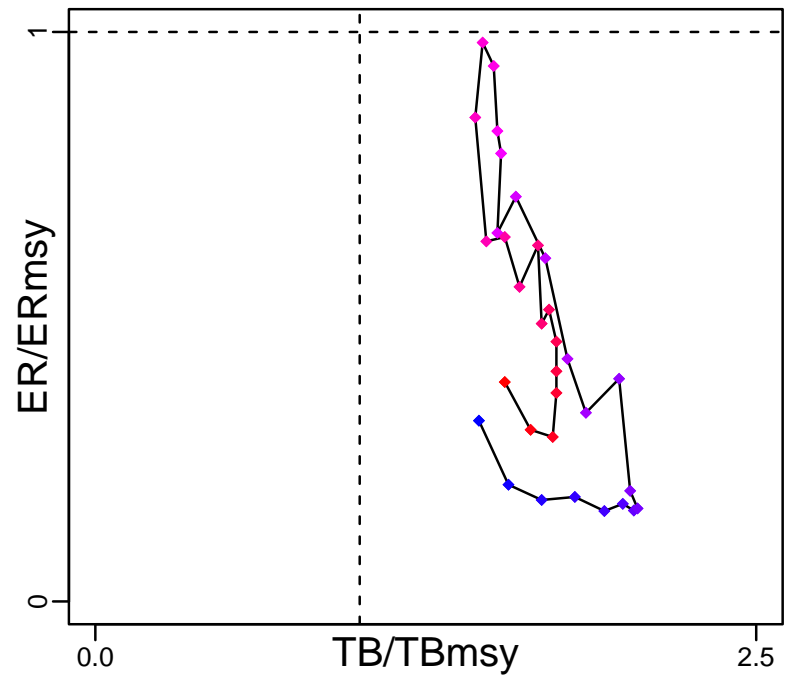
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	111,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2010	23,300,000	-	1
F	F-1/yr	2010	0.11	-	-
ER	ER-calc-ratio	2010	0.077	-	-
TC	TC-MT	2018	9620		
TL	TL-MT	2009	5300		
TB/TBmsy	TB-MT/TBmsy-MT	2010	1.549		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2010	0.297		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2010	0.385		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

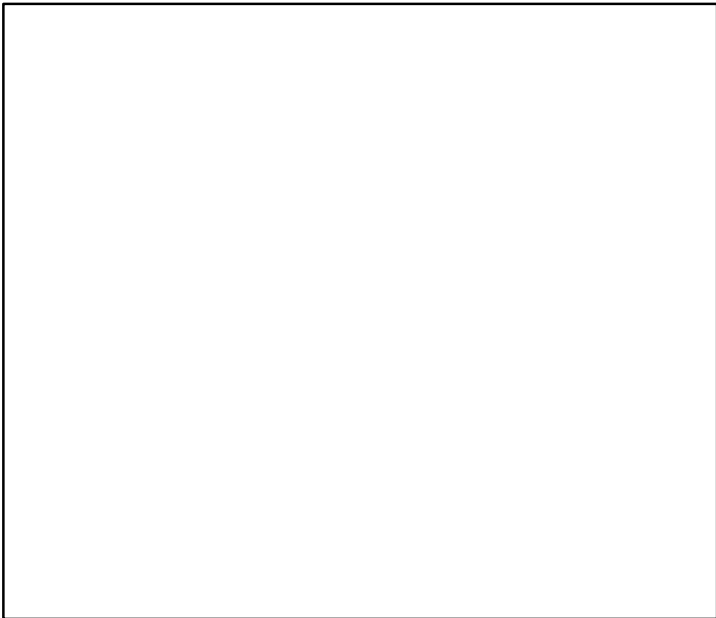
Kobe MSY_{pref} (1979–2010–SISIMP2016)



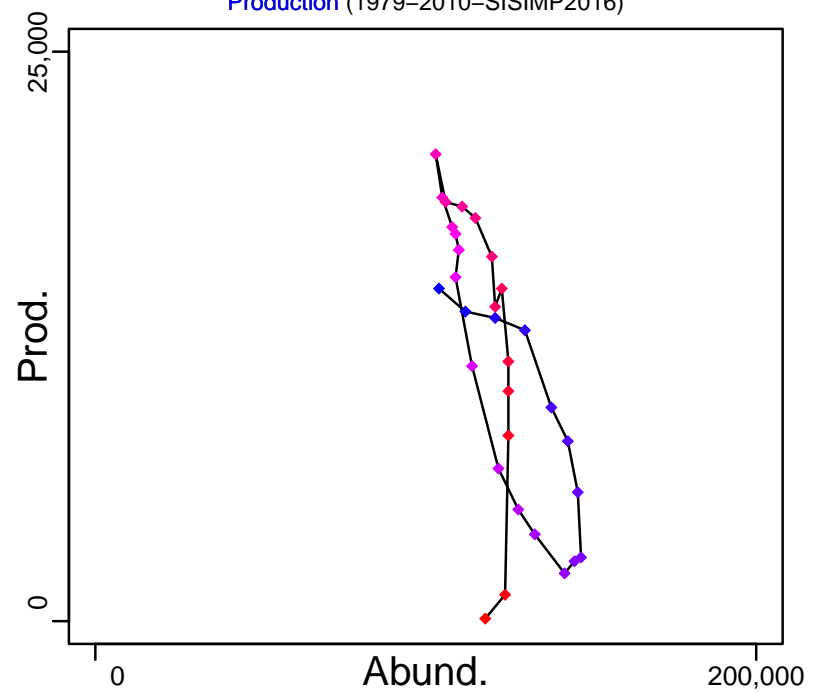
Kobe MGT_{pref} (1979–2010–SISIMP2016)



Spawner Recruit*



Production (1979–2010–SISIMP2016)

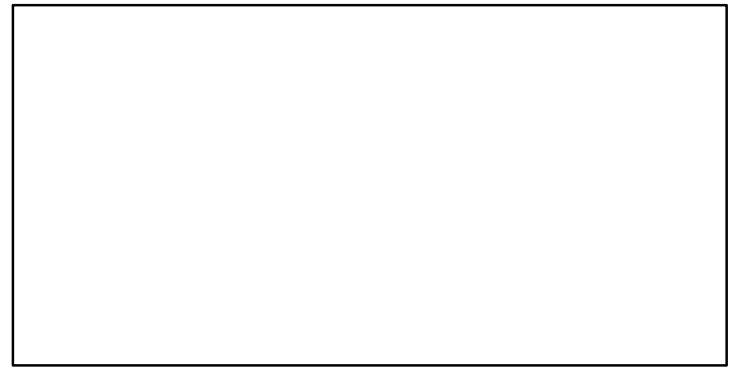
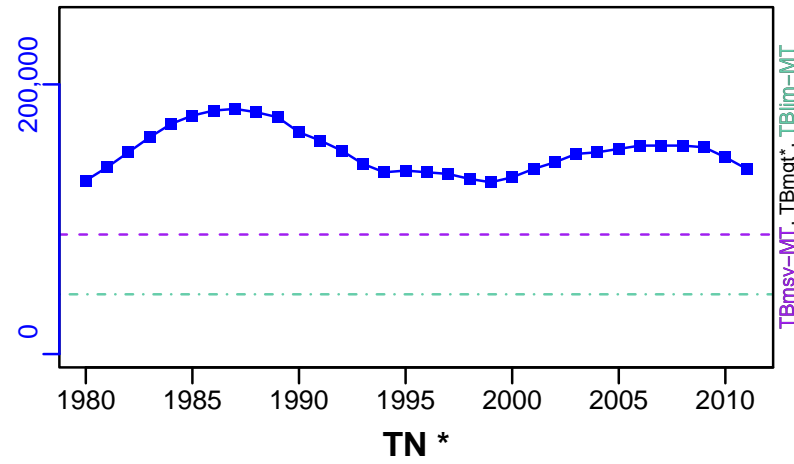


◆ Start Year ◆ End Year * No Data

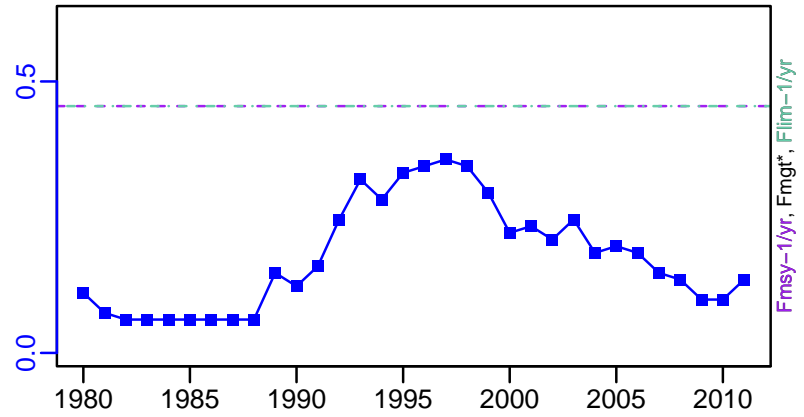
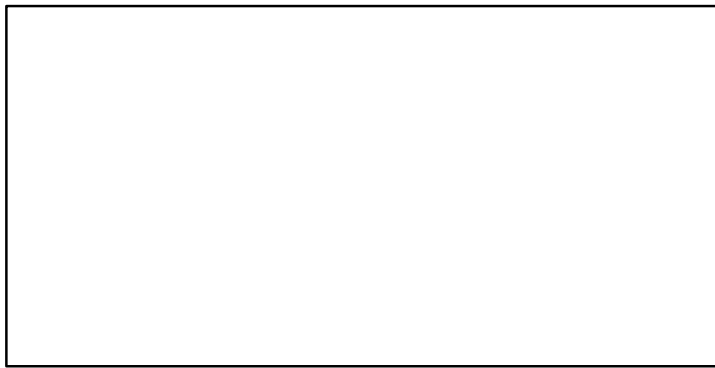
Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

TB-MT (1979-2010-SISIMP2016)

SSB*

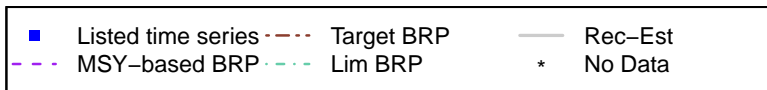
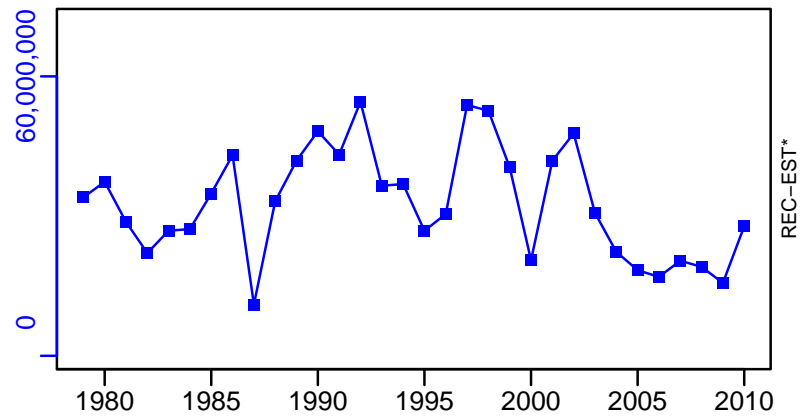
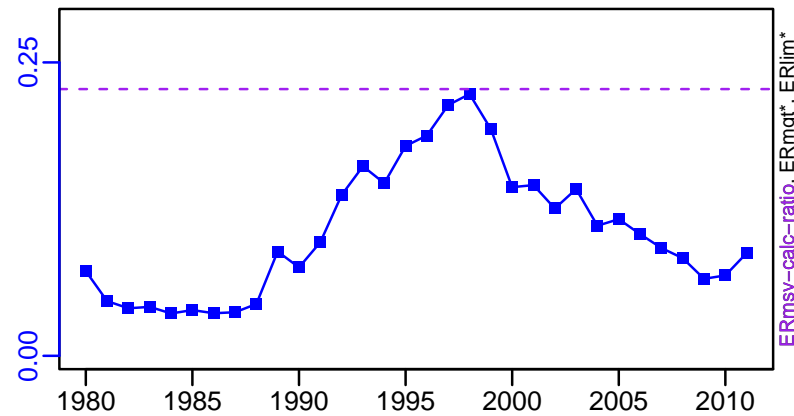


F-1/yr (1979-2010-SISIMP2016)



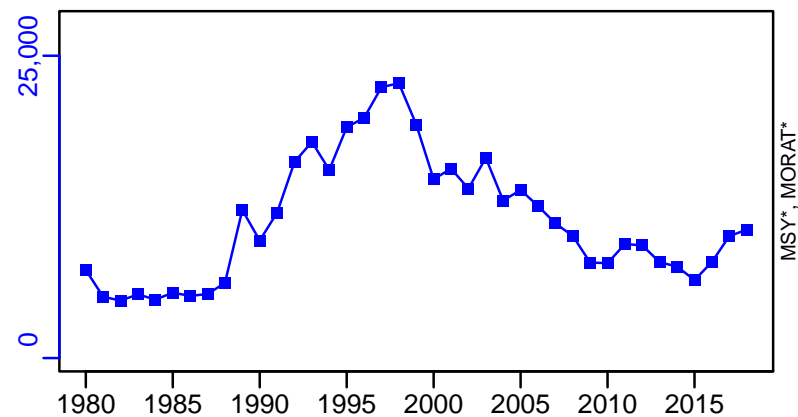
ER-calc-ratio (1979-2010-SISIMP2016)

R-E00 (1979-2010-SISIMP2016)



Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

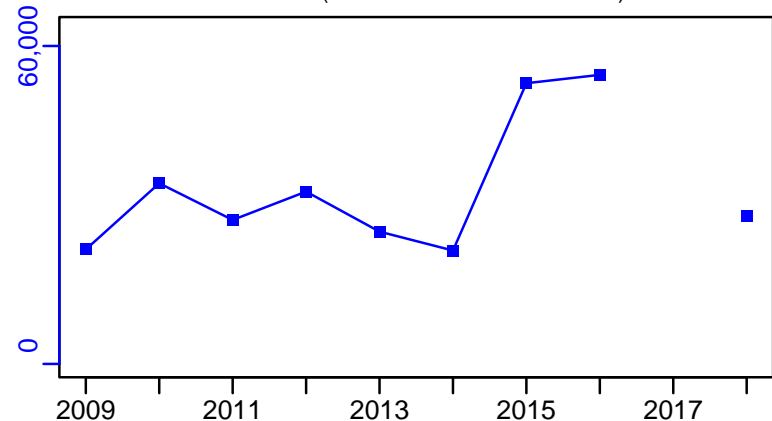
TC-MT, TL*, RecC* (1980-2018-SISIMP2021-2)



TAC*, Cpair*, Cadv*



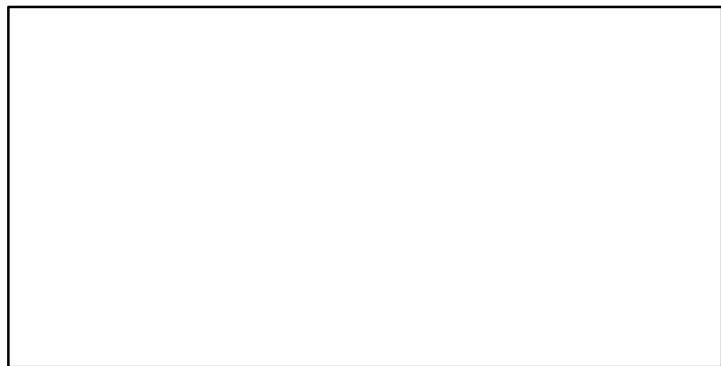
survB-MT (1980-2018-SISIMP2021-2)



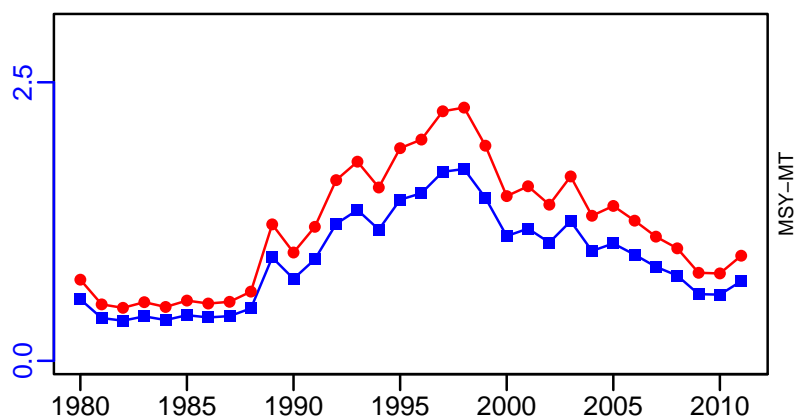
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1979-2010-SISIMP2016)



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

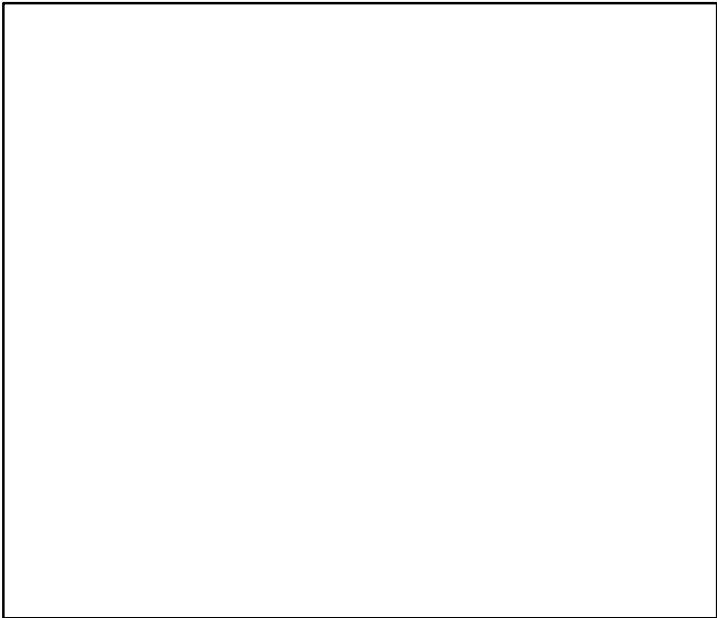
Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

Metadata	
Scientific Name	Zoarces americanus
Current Assess ID	NEFSC-OPOUTNWATLC-1968-2019-SISIMP2021-2
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2014, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	4934
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2008	0.76
ERmsy	ERmsy-ratio	2019	0.76
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	3750
M	M-1/yr	2008	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	0.76

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.485	-	-
TC	TC-MT	2019	79		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.638		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

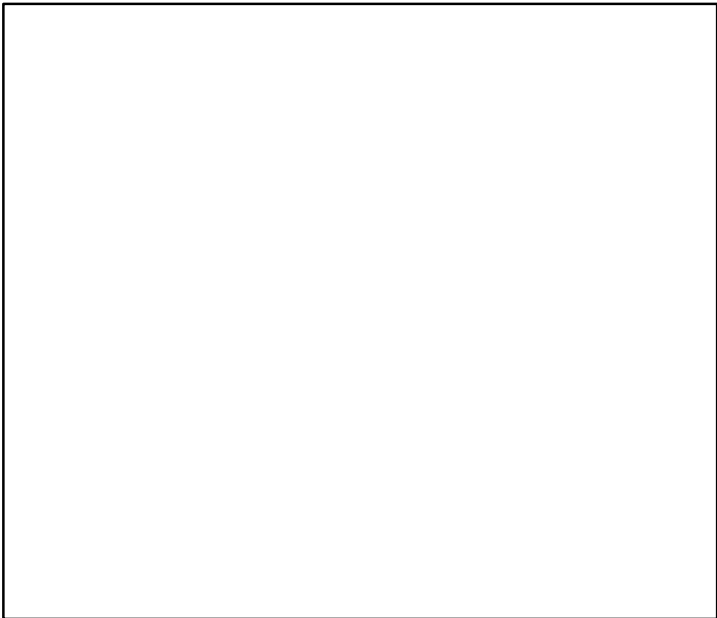
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

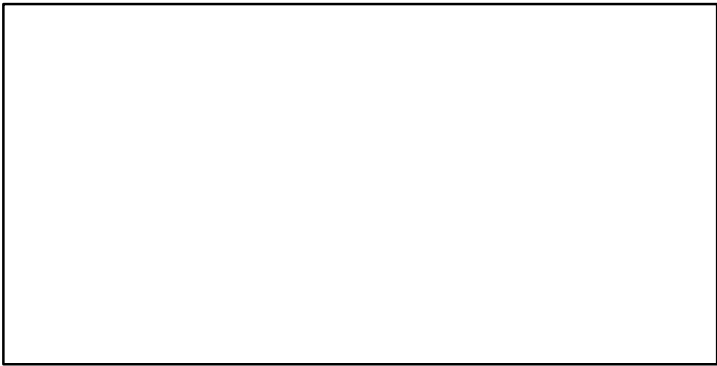
TB*



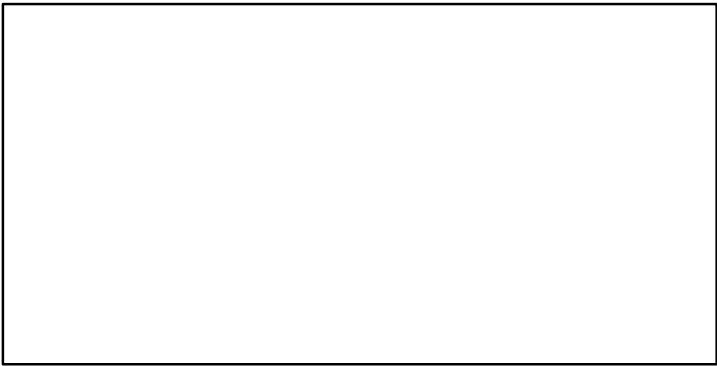
SSB*



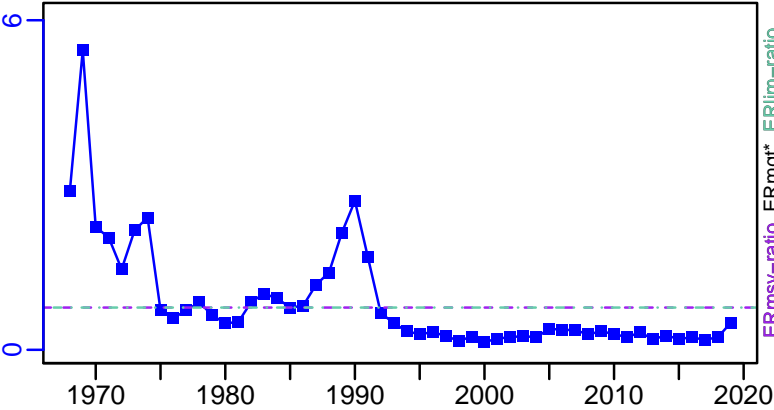
TN *



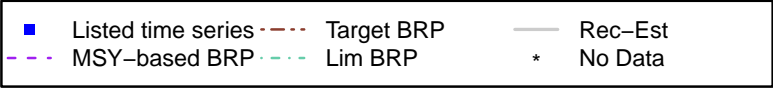
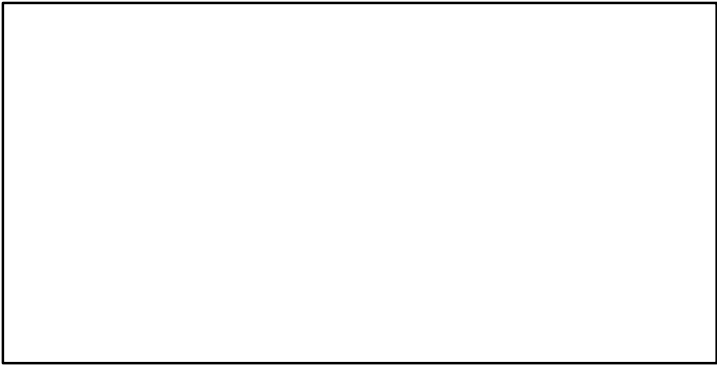
F*



ER-ratio (1968–2019–SISIMP2021–2)



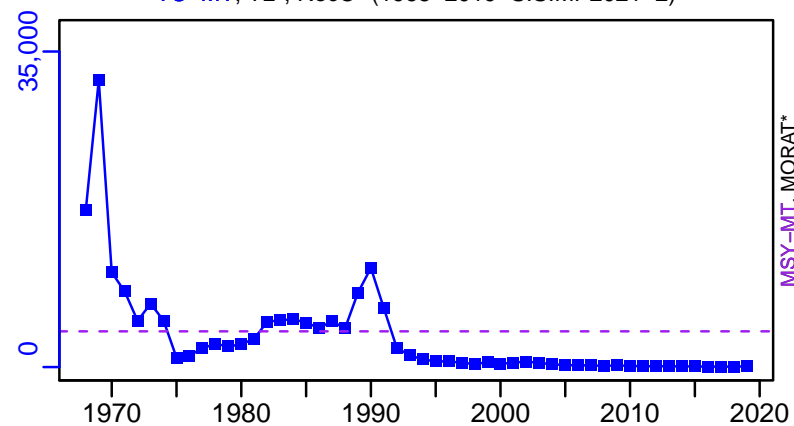
Recruits*



Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

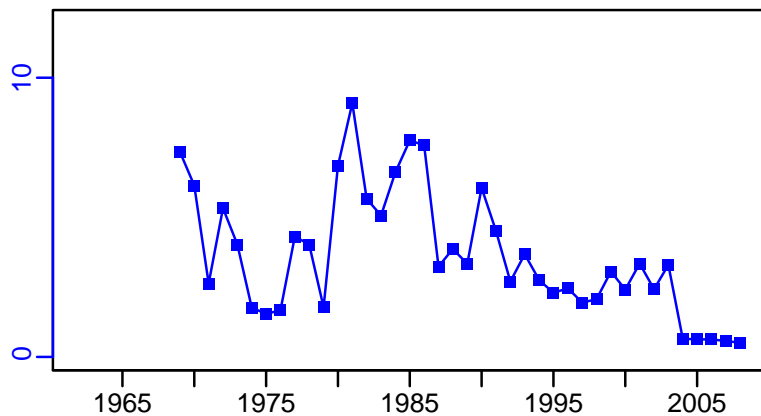
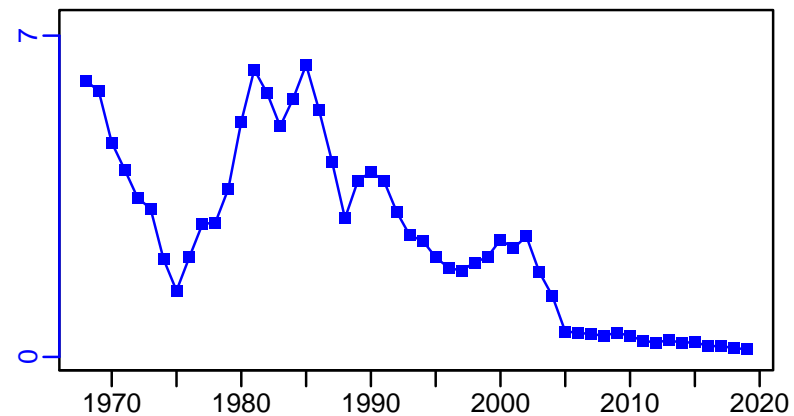
TC-MT, TL*, RecC* (1968-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



survB-index (1968-2019-SISIMP2021-2)

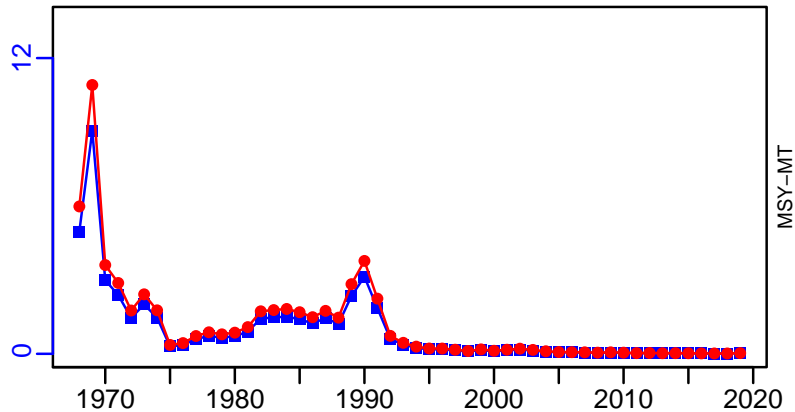
CPUE-kgpertow (1962-2008-WIGLEY)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1968-2019-SISIMP2021-2)



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

Northern shrimp Gulf of Maine [PANDALGOM]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	ASMFC-PANDALGOM-1984-2020-HIVELY
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2009, 2020

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2009	0.25
TBlim	TBlim-MT	2009	1540
SSBlim	-	-	-
Flim	Flim-1/yr	2009	0.6
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2020	2728	-	-
SSB	SSB-MT	2020	707	-	-
TN	TN-E00	2020	1.5×10^9	-	-
R	R-E00	2020	1.2×10^9	-	-
F	F-1/yr	2020	0.002	-	-
ER	ER-calc-ratio	2020	0	-	-
TC	-	-	-		
TL	TL-MT	2020	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Northern shrimp Gulf of Maine [PANDALGOM]

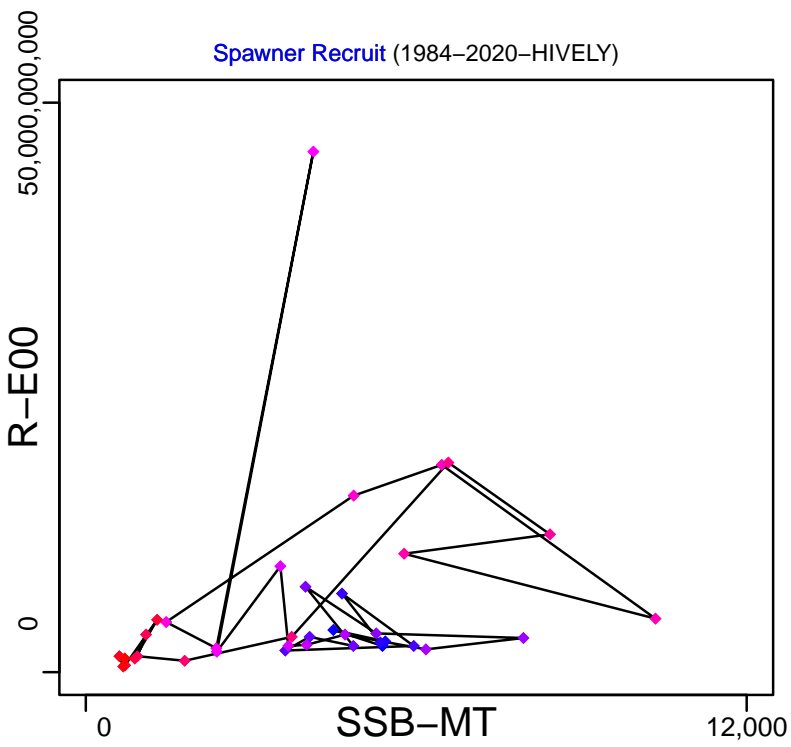
Kobe MSY*



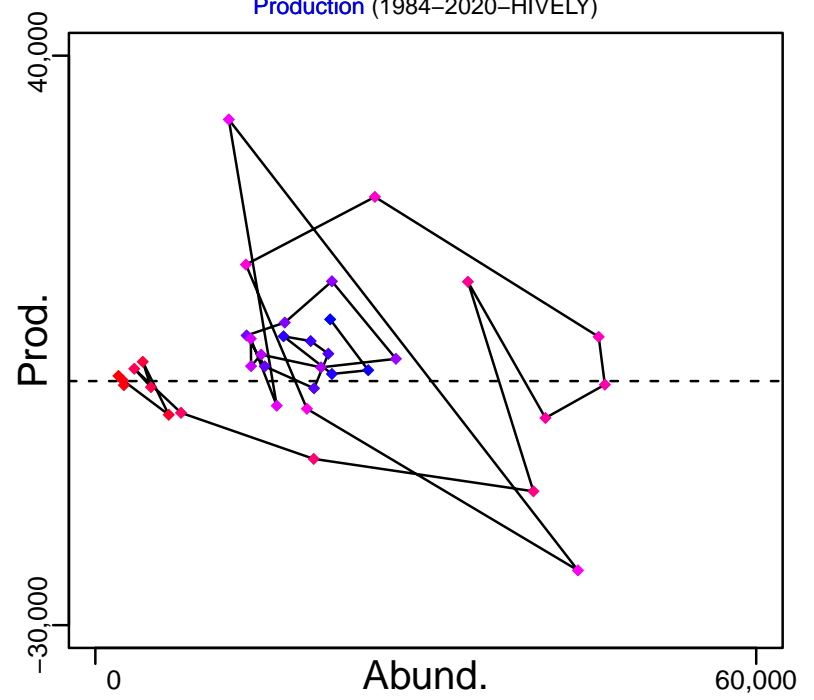
Kobe MGT*



Spawner Recruit (1984–2020–HIVELY)



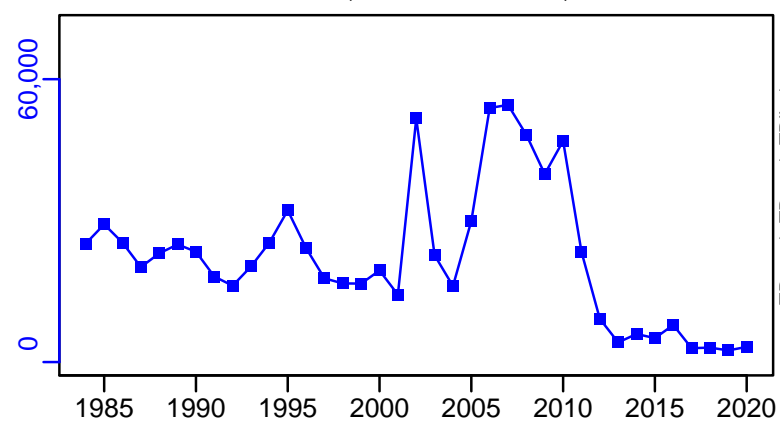
Production (1984–2020–HIVELY)



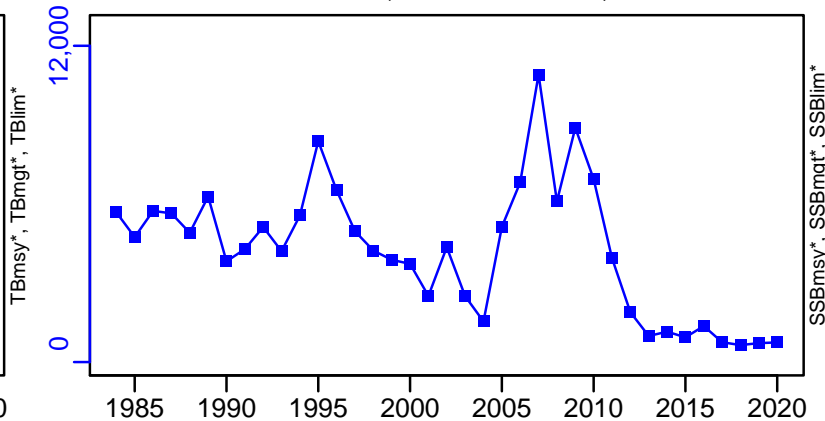
◆ Start Year ◆ End Year * No Data

Northern shrimp Gulf of Maine [PANDALGOM]

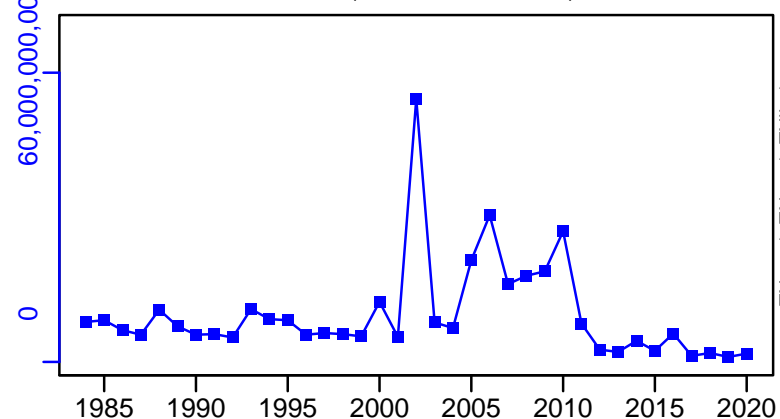
TB-MT (1984–2020–HIVELY)



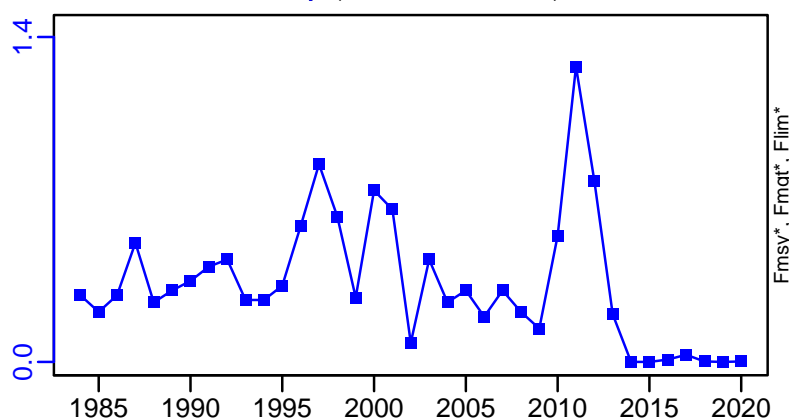
SSB-MT (1984–2020–HIVELY)



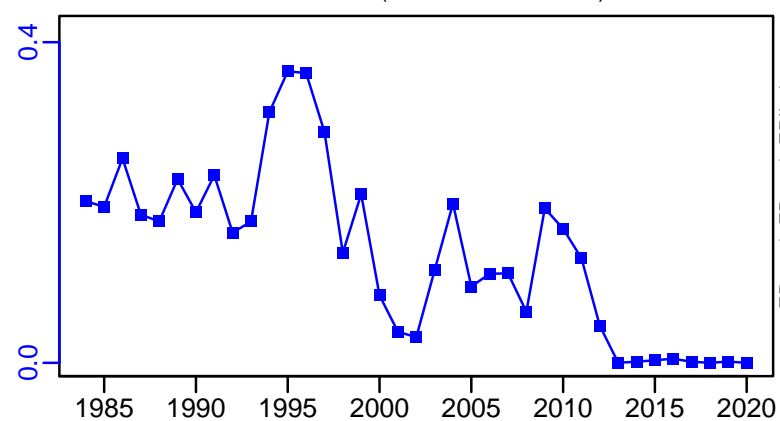
TN-E00 (1984–2020–HIVELY)



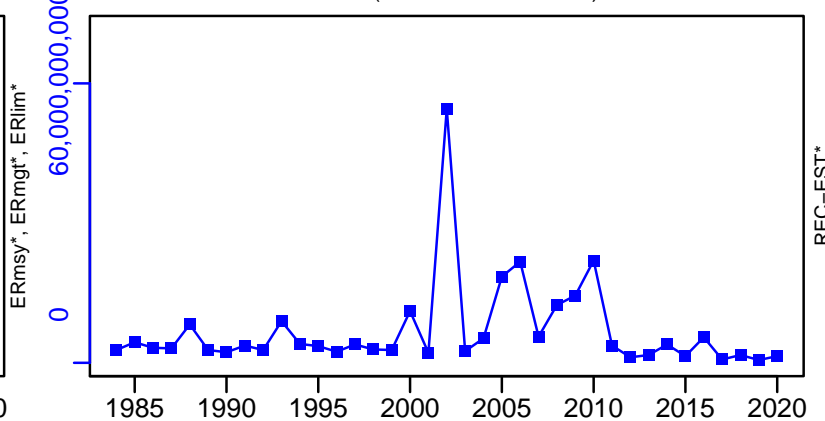
F-1/yr (1984–2020–HIVELY)



ER-calc-ratio (1984–2020–HIVELY)

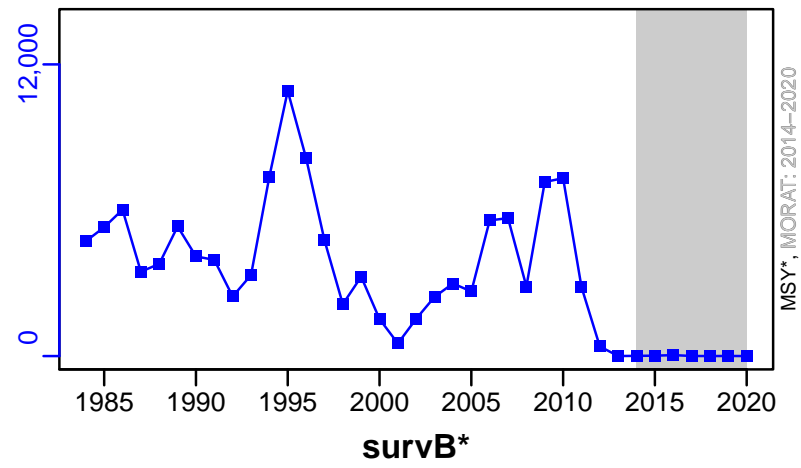


R-E00 (1984–2020–HIVELY)

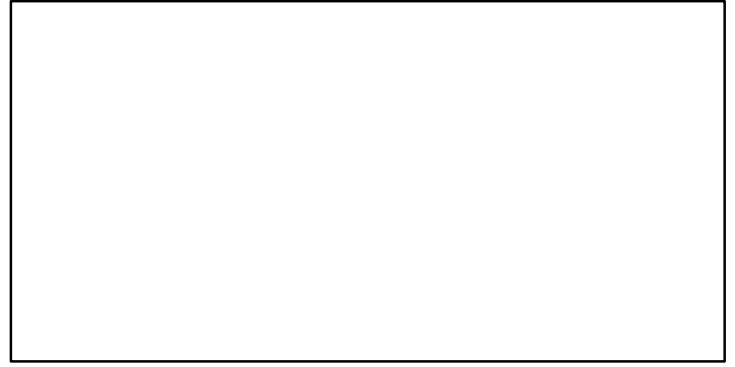


Northern shrimp Gulf of Maine [PANDALGOM]

TL-MT, TC*, RecC* (1984-2020-HIVELY)



TAC*, Cpair*, Cadv*



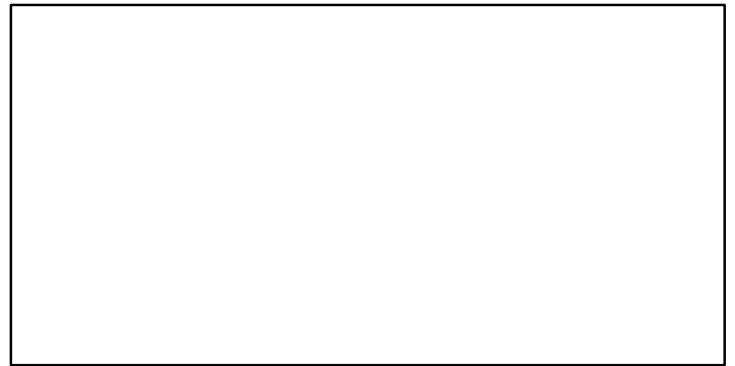
CPUE*



EFFORT*



CdivMSY*



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

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

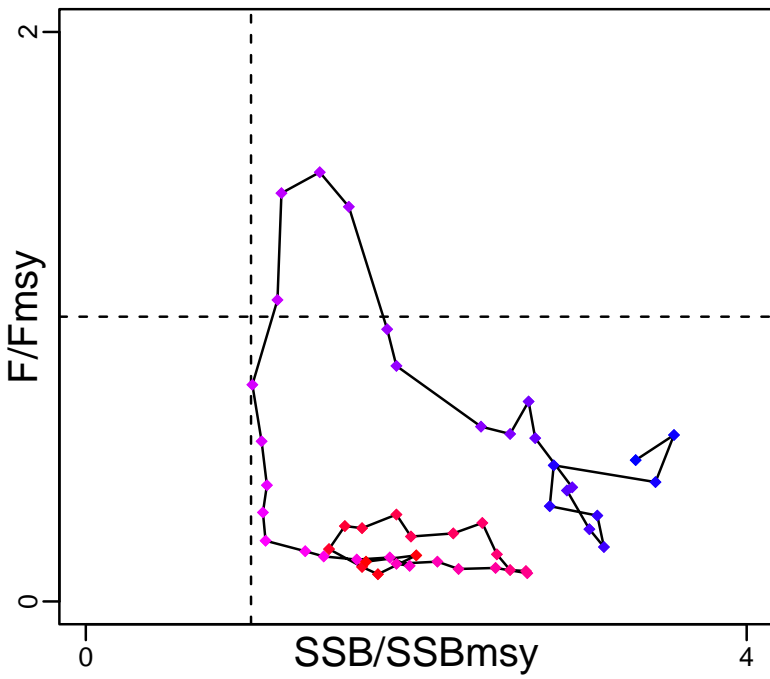
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	NEFSC-POLL5YZ-1960-2018-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2018, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	125,000
Fmsy	Fmsy-1/yr	2018	0.272
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	19,678
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	62,300
Flim	Flim-1/yr	2018	0.272
ERlim	-	-	-

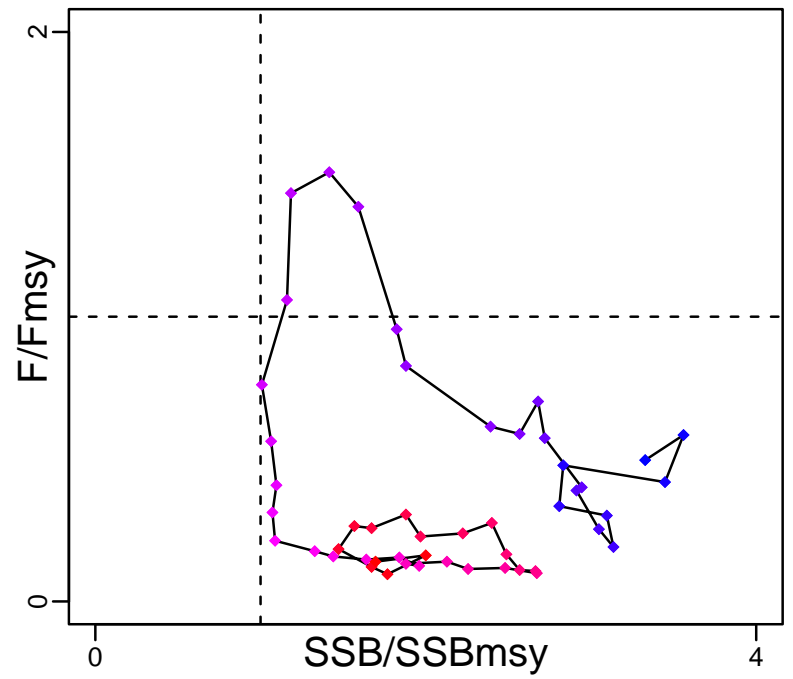
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	210,000	-	-
SSB	SSB-MT	2018	212,000	-	-
TN	-	-	-	-	-
R	R-E00	2018	24,200,000	-	1
F	F-1/yr	2018	0.038	-	-
ER	ER-calc-ratio	2009	0.042	-	-
TC	TC-MT	2018	4780		
TL	TL-MT	2009	7950		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	1.696		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.14		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

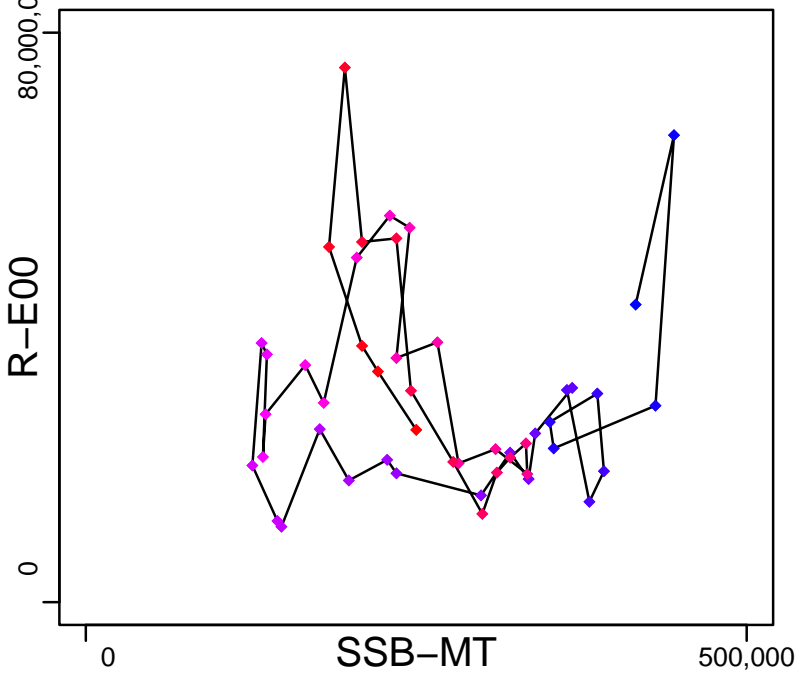
Kobe MSYpref (1960–2018–SISIMP2021–2)



Kobe MGTpref (1960–2018–SISIMP2021–2)

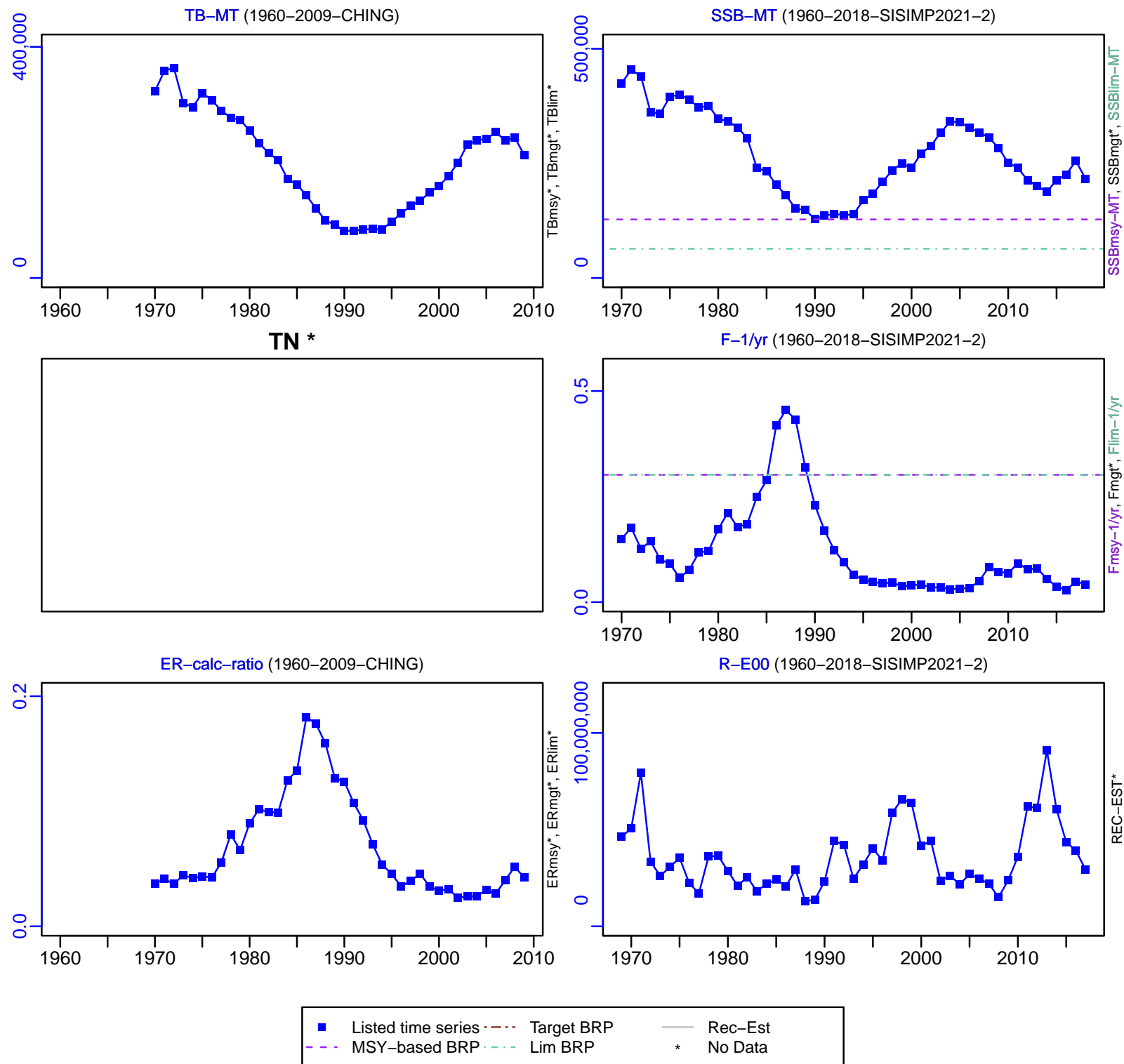


Spawner Recruit (1960–2018–SISIMP2021–2)



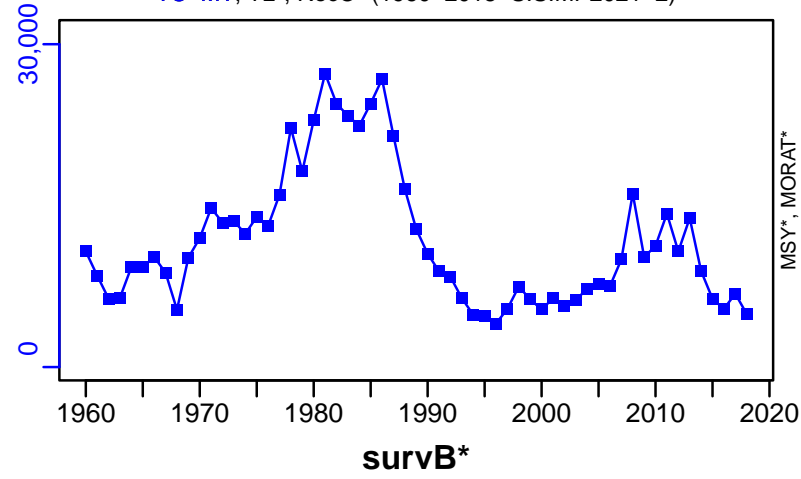
◆ Start Year ◆ End Year * No Data

Pollock Gulf of Maine / Georges Bank [POLL5YZ]



Pollock Gulf of Maine / Georges Bank [POLL5YZ]

TC-MT, TL*, RecC* (1960–2018–SISIMP2021–2)



TAC*, Cpair*, Cadv*



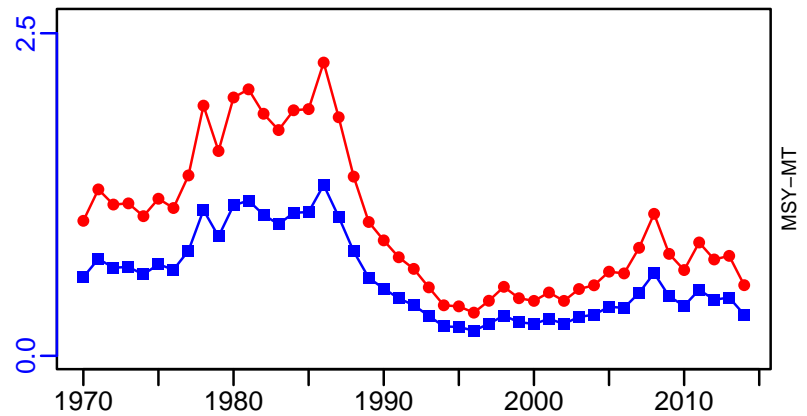
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1970–2014–SISIMP2016)



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

Ocean quahog Atlantic Coast [QUAHATLC]

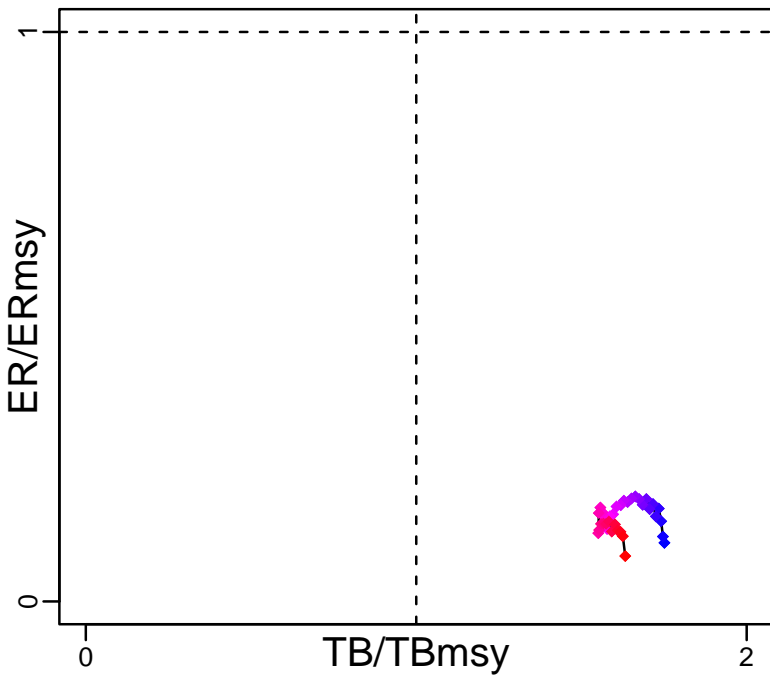
Metadata	
Scientific Name	Arctica islandica
Current Assess ID	NEFSC-QUAHATLC-1980-2016-SISIMP2021
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2011, 2016

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

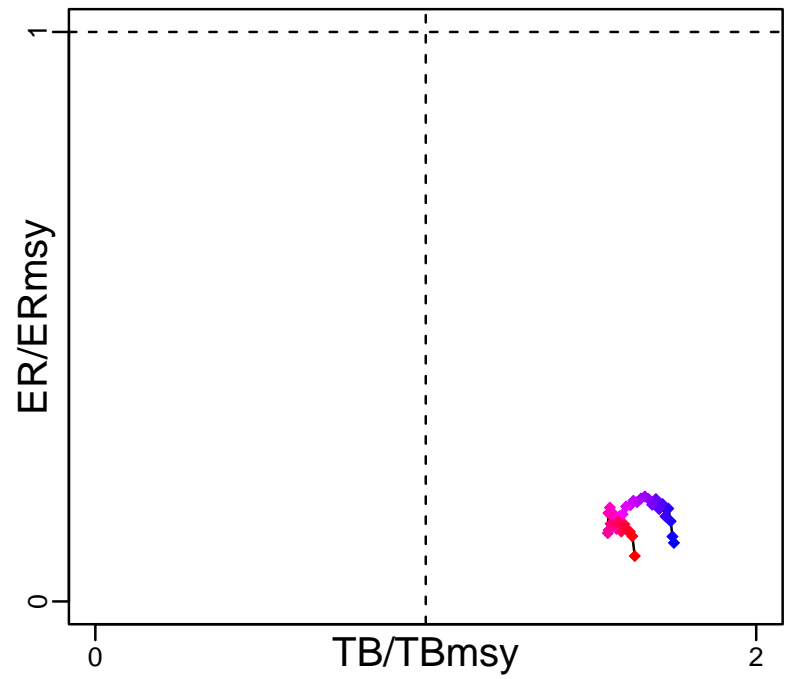
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	3,287,300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.005	-	-
ER	ER-calc-ratio	2016	0.003	-	-
TC	TC-MT	2016	9542		
TL	TL-MT	2008	15,500		
TB/TBmsy	TB-MT/TBmsy-MT	2016	1.633		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Ocean quahog Atlantic Coast [QUAHATLC]

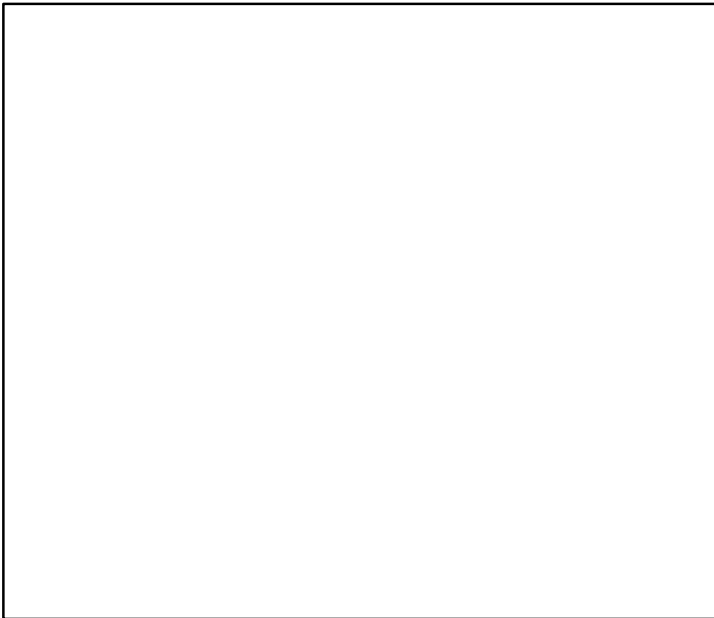
Kobe MSY_{pref} (1980–2016–SISIMP2021)



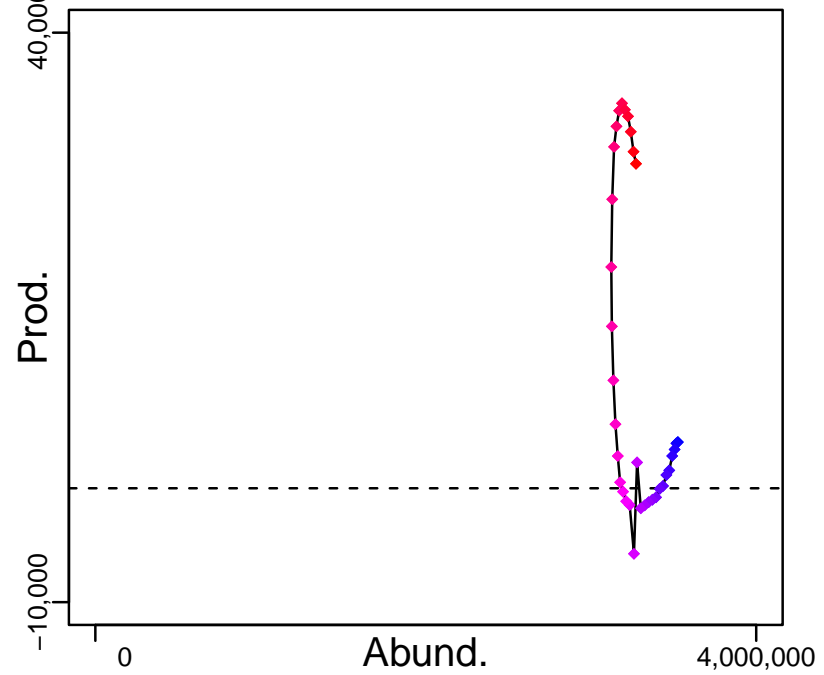
Kobe MGT_{pref} (1980–2016–SISIMP2021)



Spawner Recruit*



Production (1980–2016–SISIMP2021)

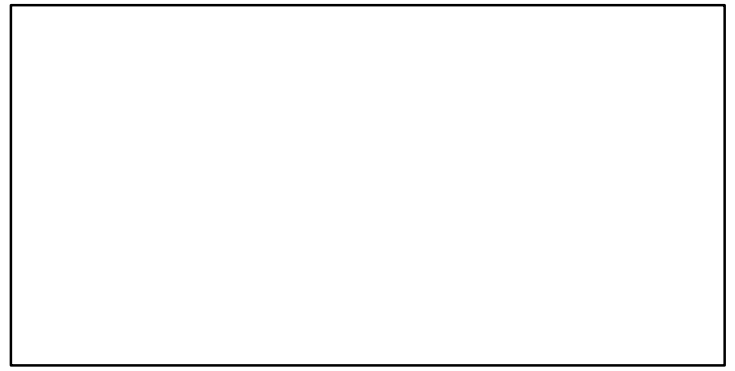
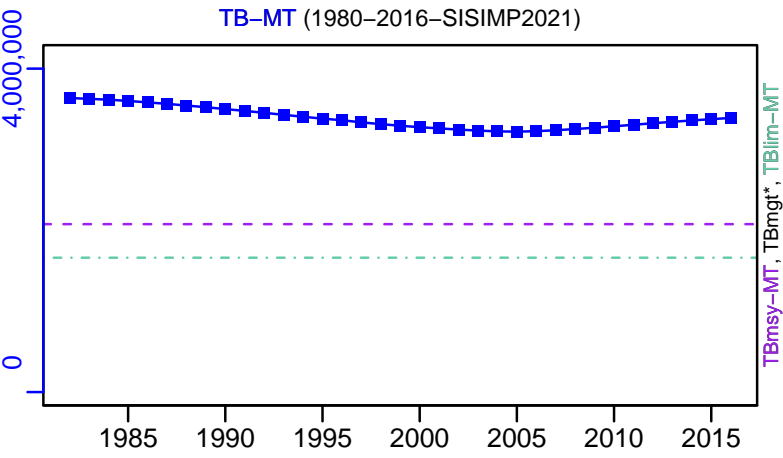


◆ Start Year ◆ End Year * No Data

Ocean quahog Atlantic Coast [QUAHATLC]

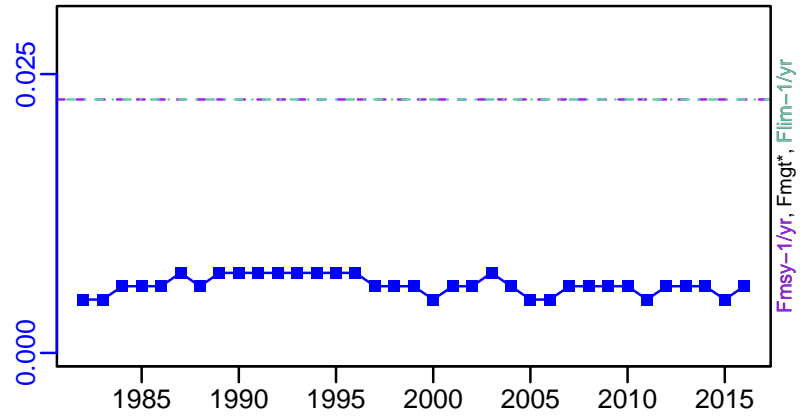
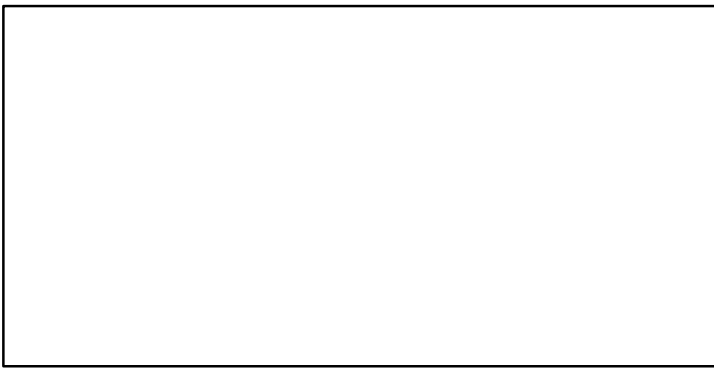
TB-MT (1980-2016-SISIMP2021)

SSB*



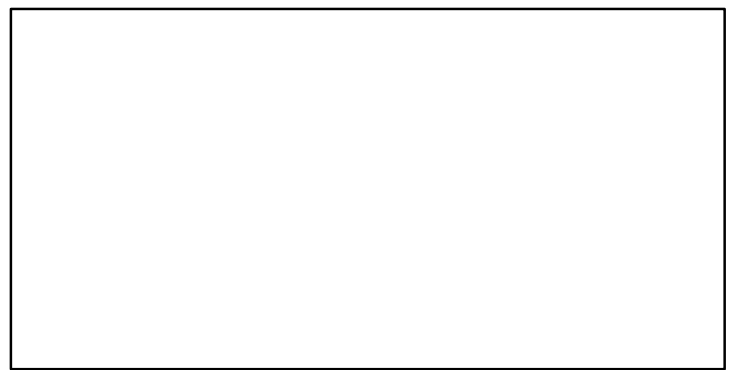
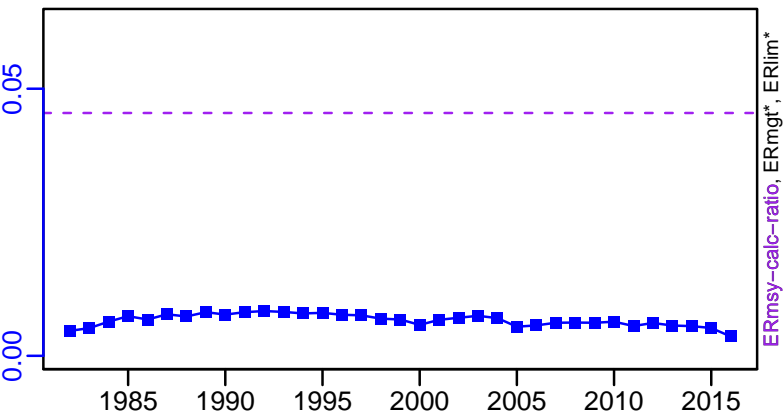
TN *

F-1/yr (1980-2016-SISIMP2021)



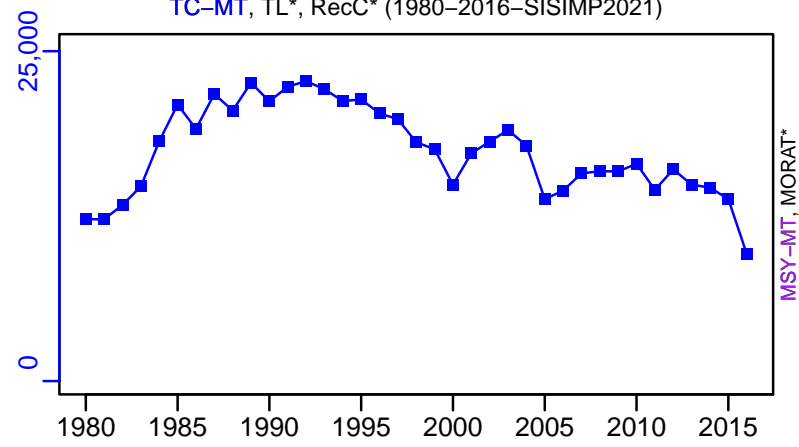
ER-calc-ratio (1980-2016-SISIMP2021)

Recruits*



Ocean quahog Atlantic Coast [QUAHATLC]

TC-MT, TL*, RecC* (1980-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



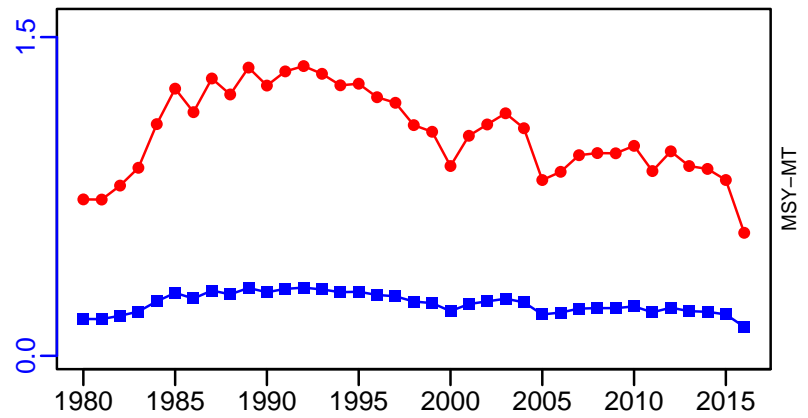
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1980-2016-SISIMP2021)



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

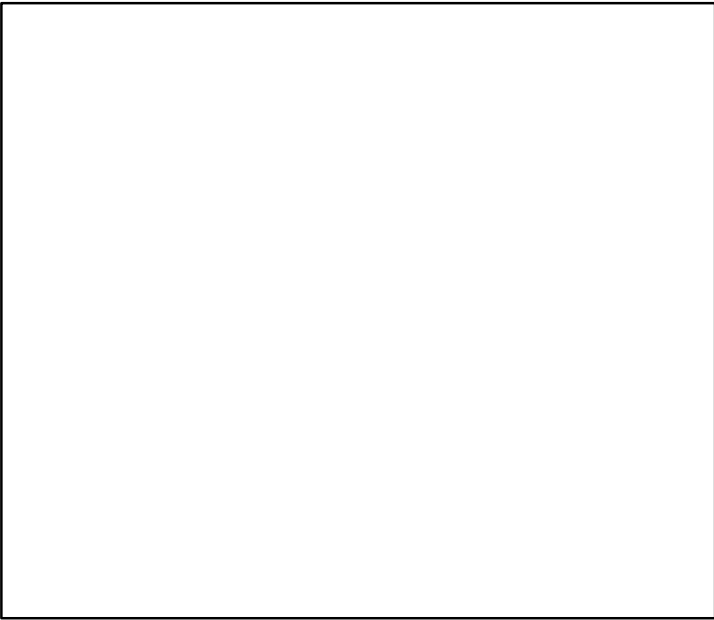
Red deepsea crab Northwestern Atlantic [RDEEPCRABNWATL]

Metadata	
Scientific Name	Chaceon quinque-dens
Current Assess ID	NEFSC-RDEEPCRABNWATL-1982-2008-CHUTE
Area	Northwestern Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008

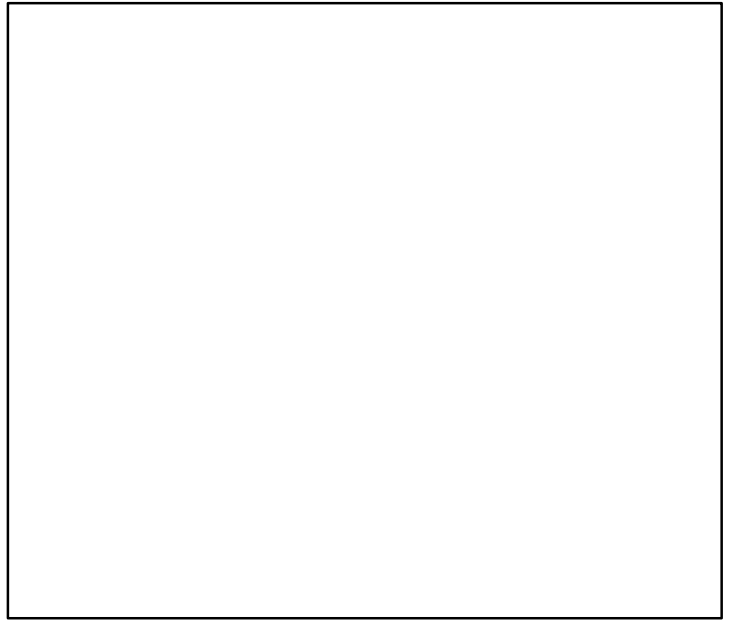
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2008	1260		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

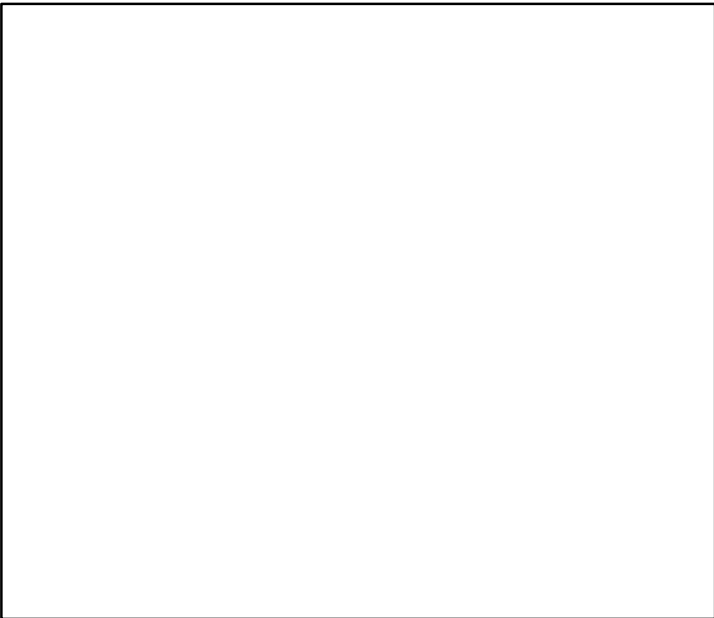
Kobe MSY*



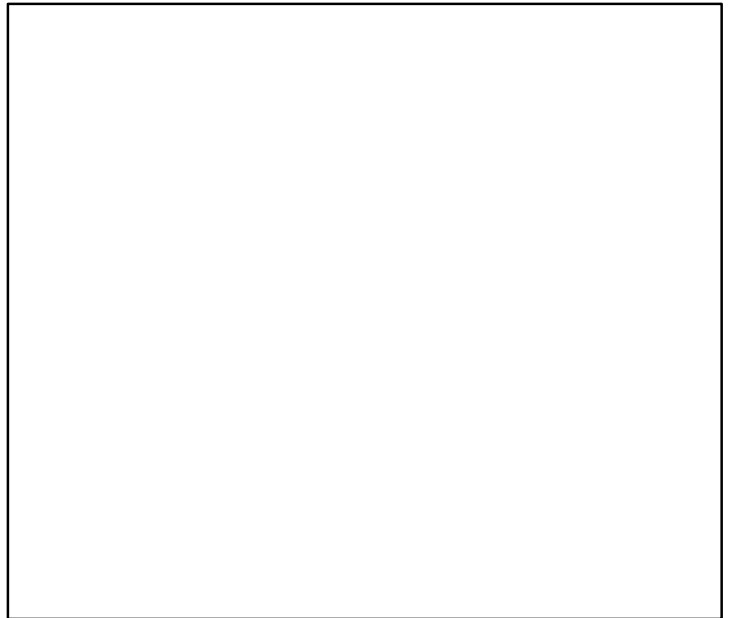
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Red deepsea crab Northwestern Atlantic [RDEEPCRABNWATL]

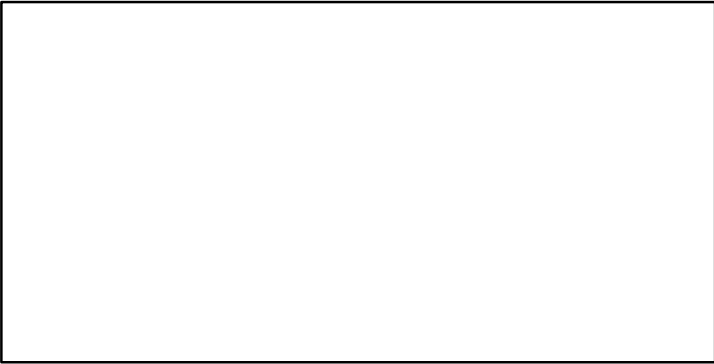
TB*



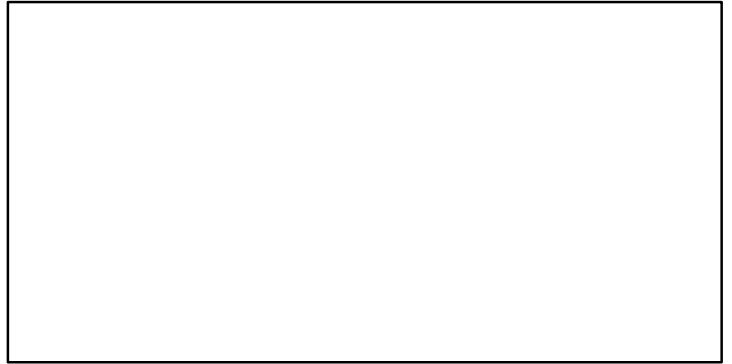
SSB*



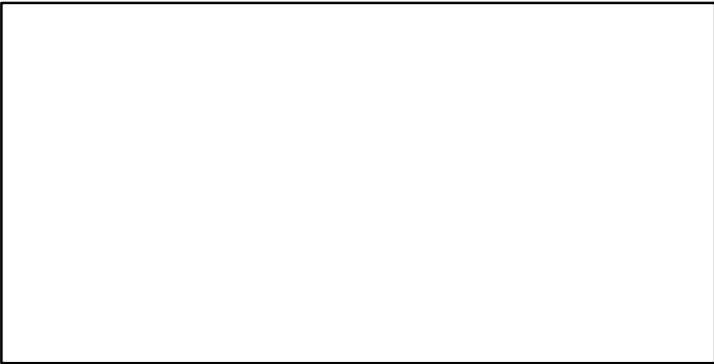
TN *



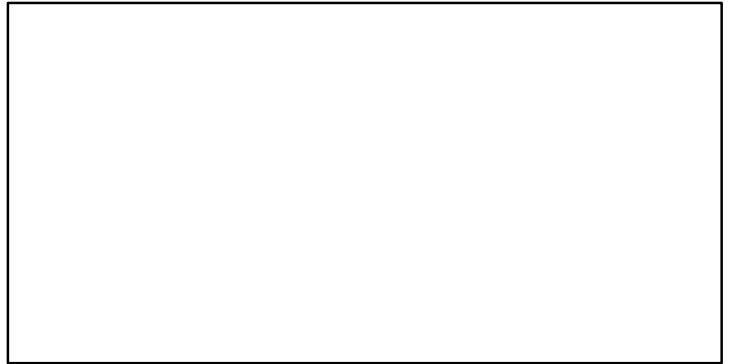
F*



ER*



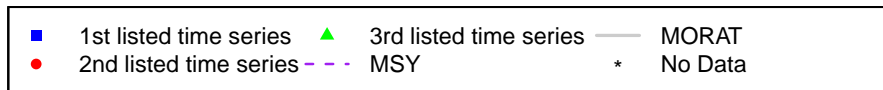
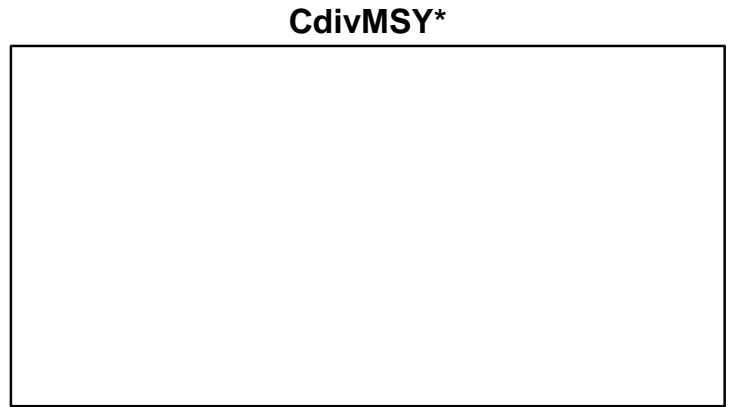
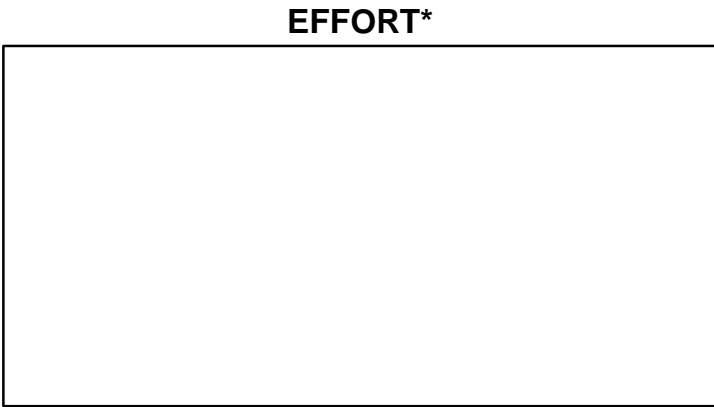
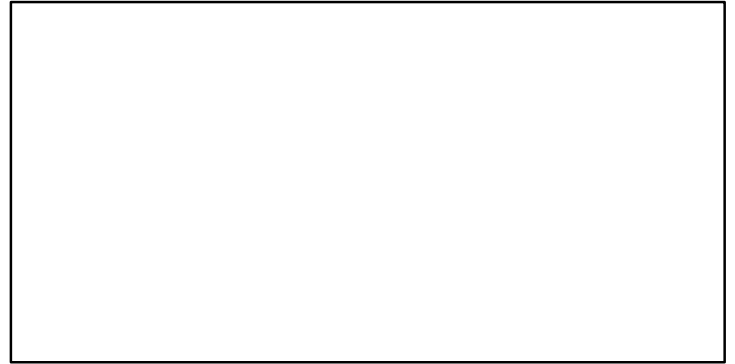
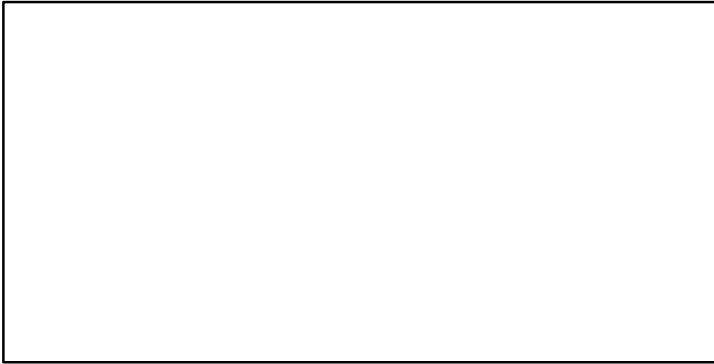
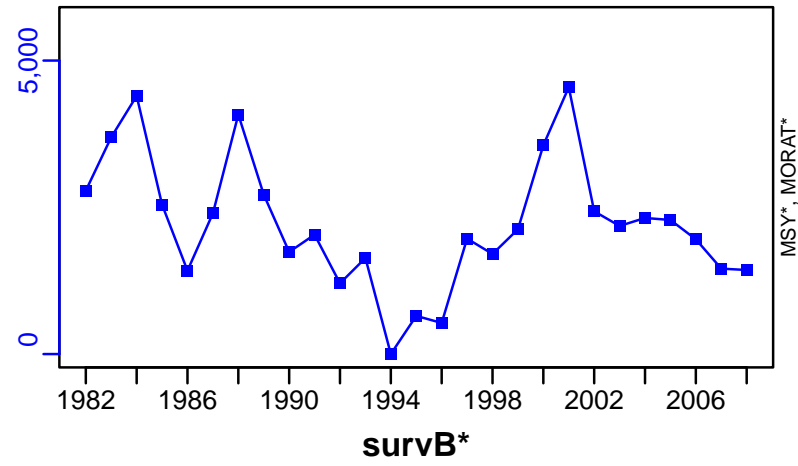
Recruits*



Red deepsea crab Northwestern Atlantic [RDEEPCRABNWATL]

TL-MT, TC*, RecC* (1982-2008-CHUTE)

TAC*, Cpair*, Cadv*



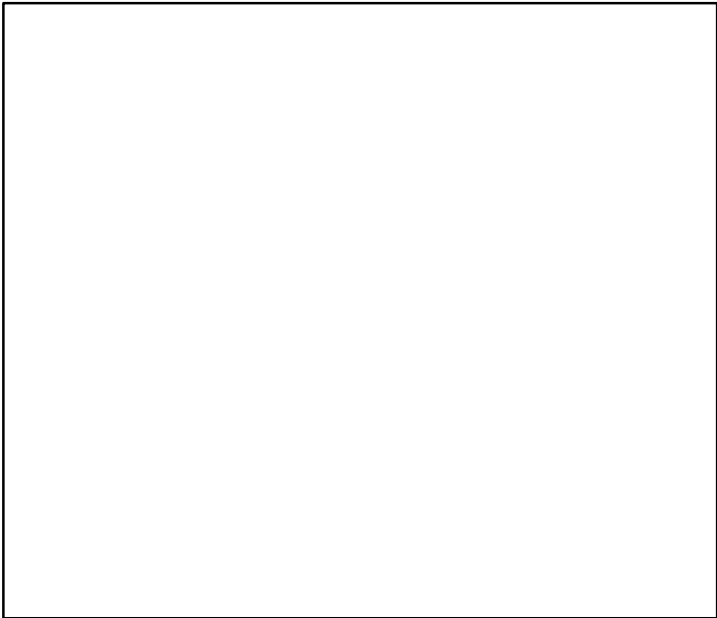
Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

Metadata	
Scientific Name	Urophycis chuss
Current Assess ID	NEFSC-RHAKEGOMNGB-1981-2019-SISIMP2021-2
Area	Gulf of Maine / Northern Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014, 2019

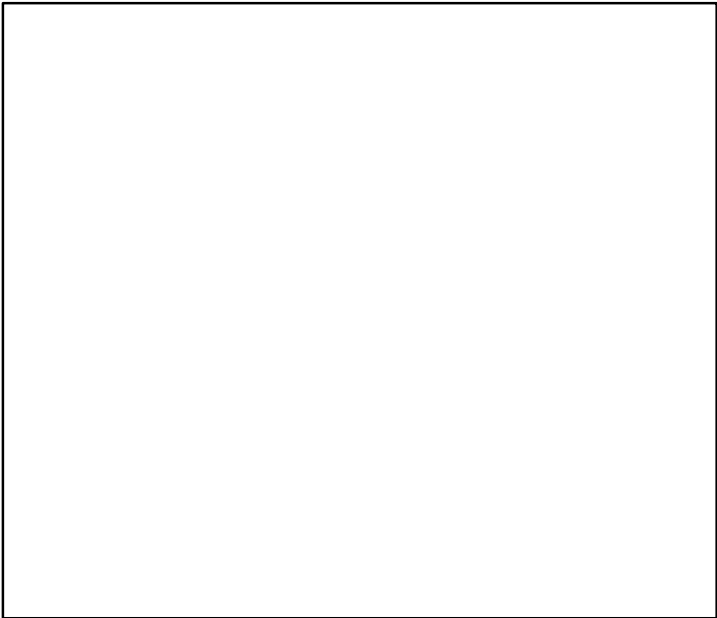
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.12	-	-
TC	TC-MT	2019	236		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

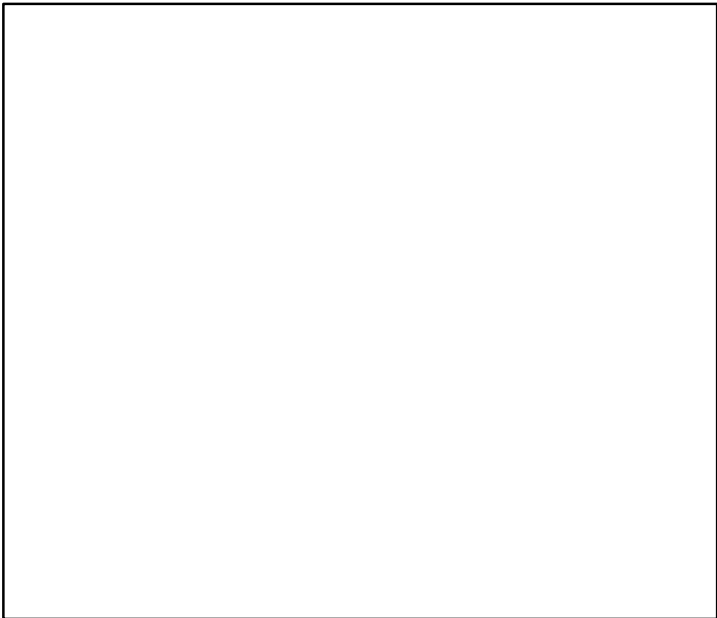
Kobe MSY*



Kobe MGT*



Spawner Recruit*



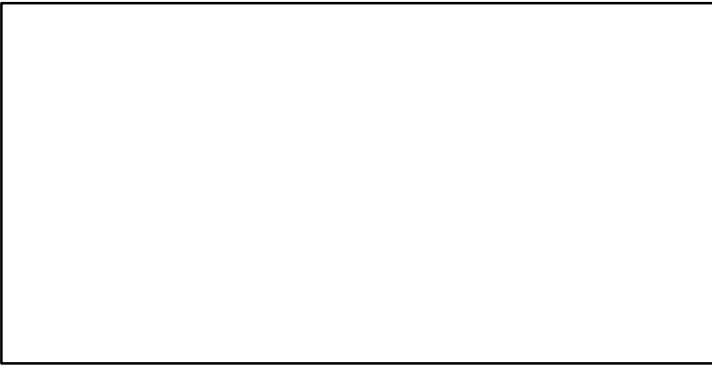
Production*



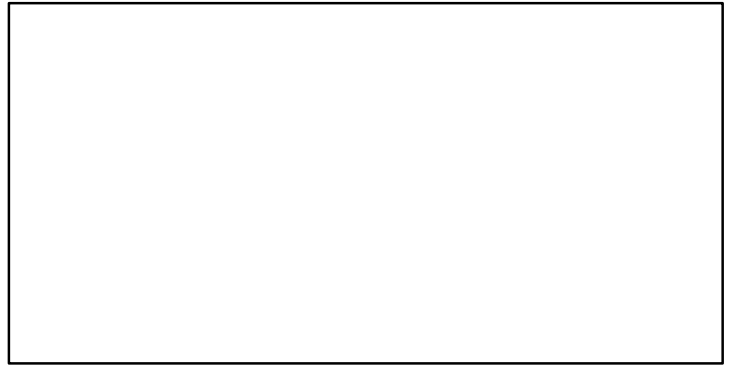
◆ Start Year ◆ End Year * No Data

Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

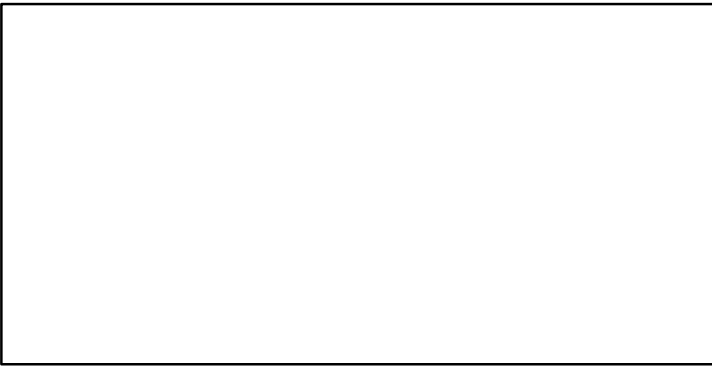
TB*



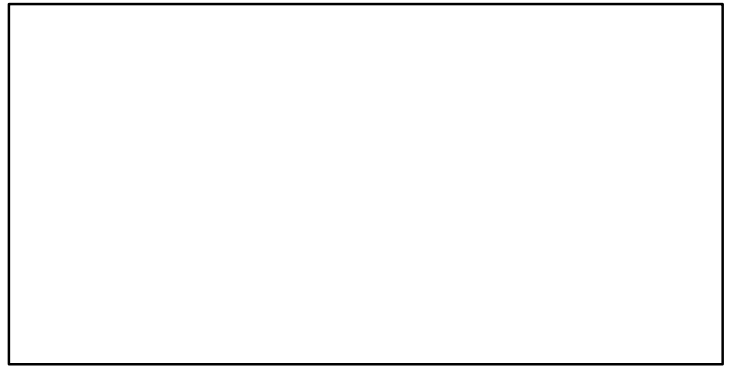
SSB*



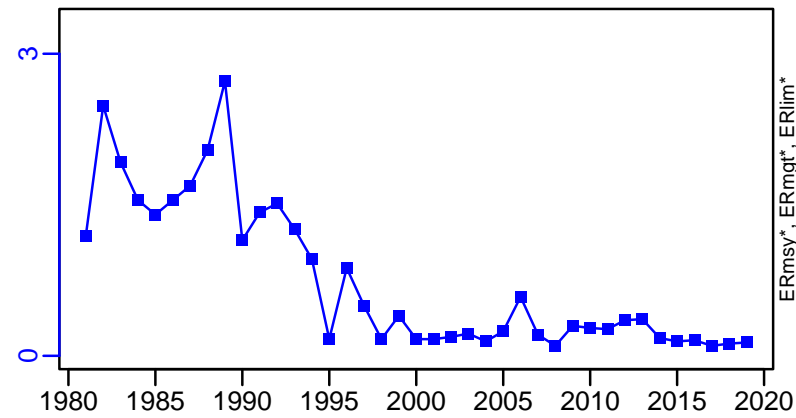
TN *



F*



ER-ratio (1981–2019–SISIMP2021–2)

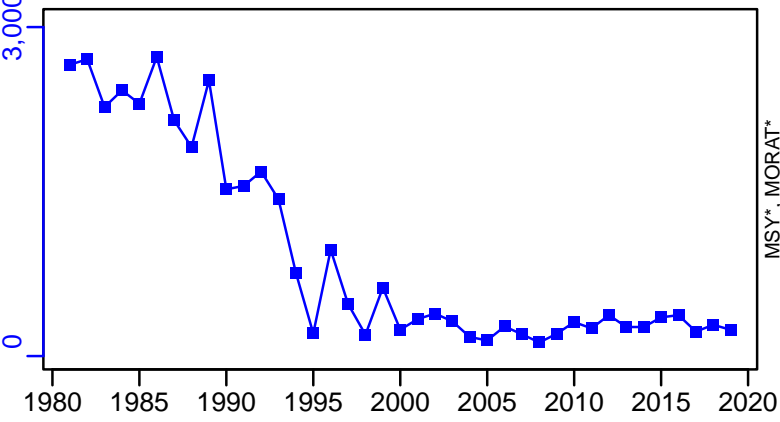


Recruits*

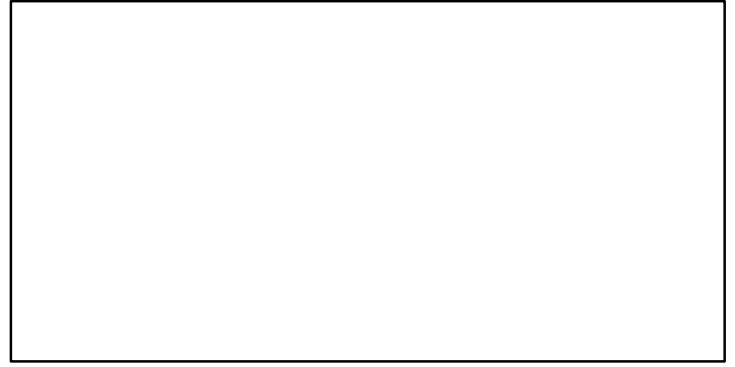


Red hake Gulf of Maine / Northern Georges Bank [RHAKEGOMNGB]

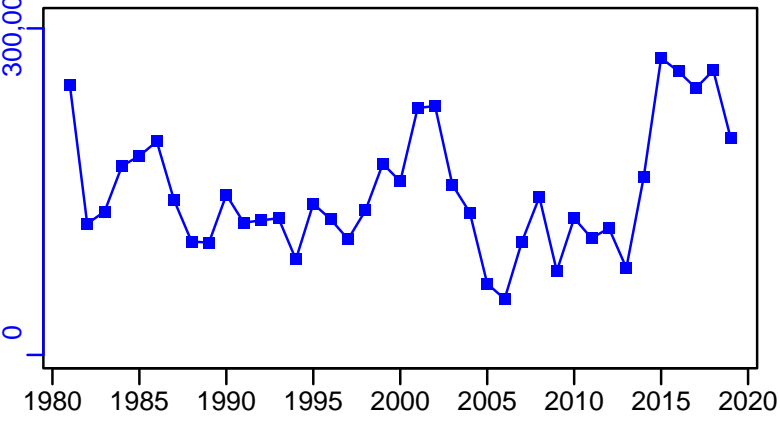
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)



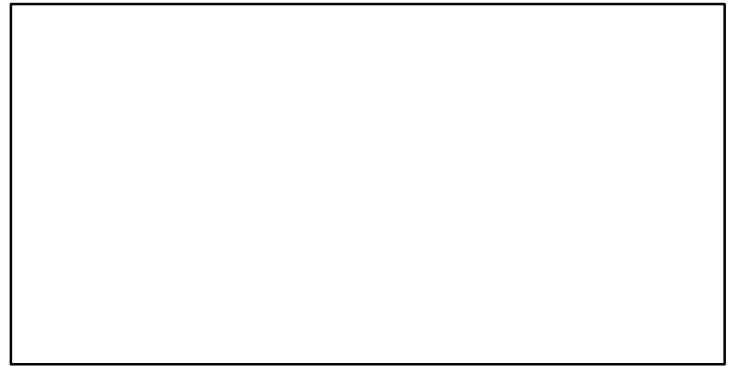
TAC*, Cpair*, Cadv*



survB-MT (1981-2019-SISIMP2021-2)



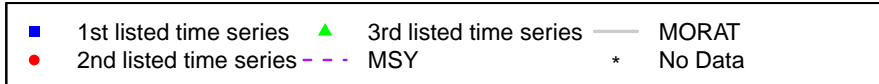
CPUE*



EFFORT*



CdivMSY*



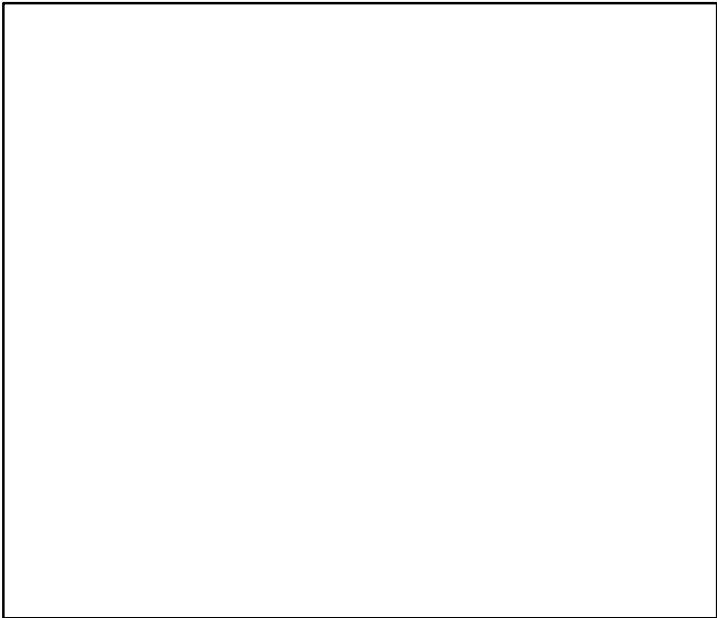
Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

Metadata	
Scientific Name	Urophycis chuss
Current Assess ID	NEFSC-RHAKESGBMATL-1981-2019-SISIMP2021-2
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	2.53	-	-
TC	TC-MT	2019	1890		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

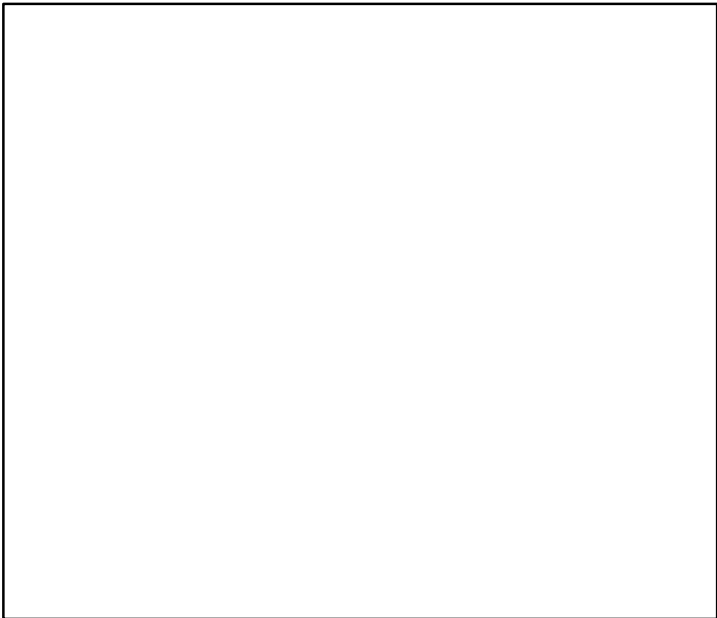
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



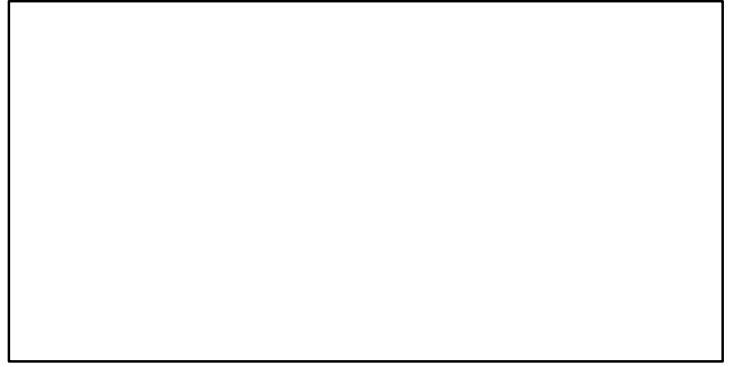
◆ Start Year ◆ End Year * No Data

Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

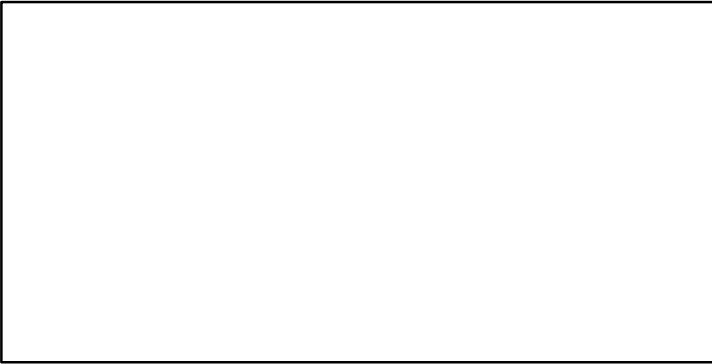
TB*



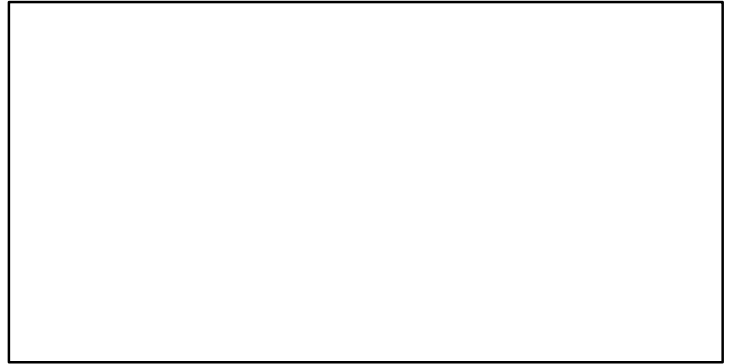
SSB*



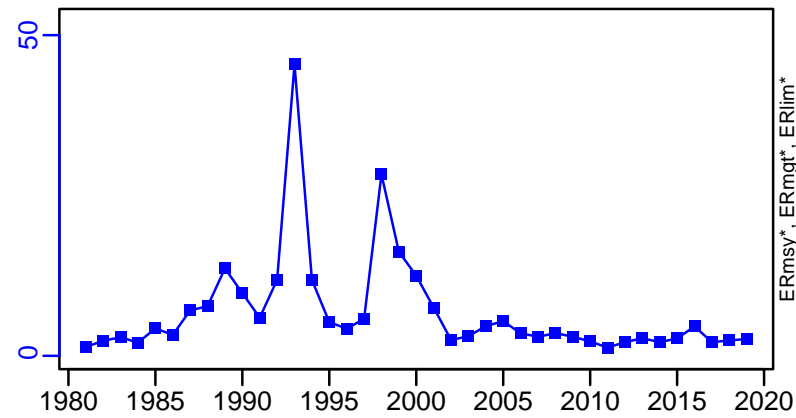
TN *



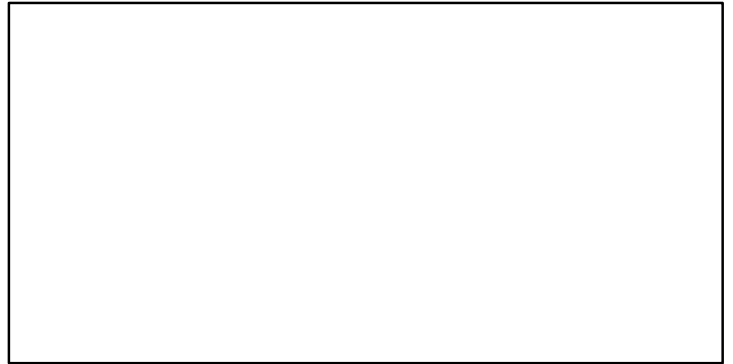
F*



ER-ratio (1981–2019–SISIMP2021–2)

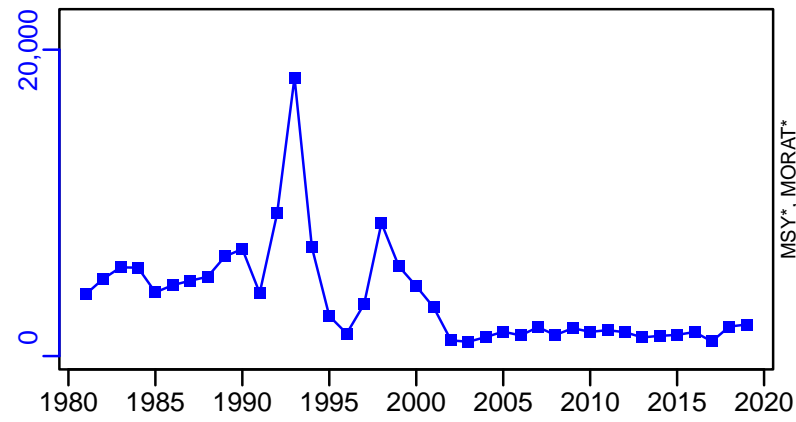


Recruits*



Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

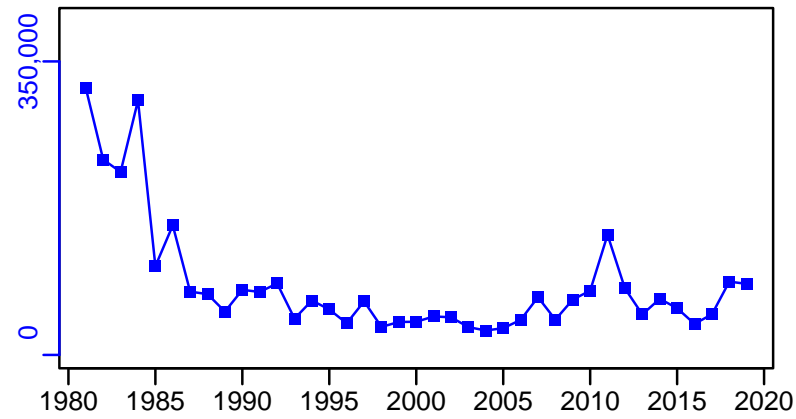
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)



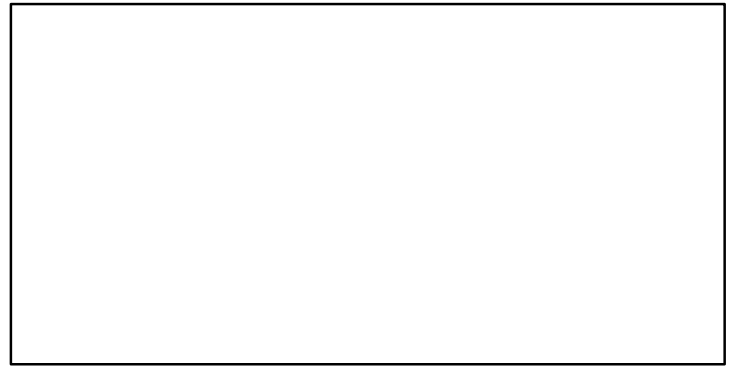
TAC*, Cpair*, Cadv*



survB-MT (1981-2019-SISIMP2021-2)



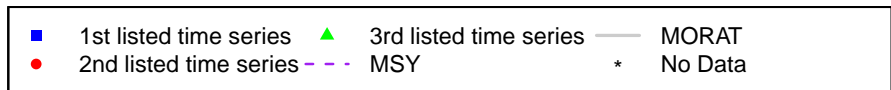
CPUE*



EFFORT*



CdivMSY*



Rosette skate Mid-Atlantic Coast [RSKATMATLC]

Metadata	
Scientific Name	Leucoraja garmani
Current Assess ID	NEFSC-RSKATMATLC-1968-2019-SISIMP2021-2
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005, 2018, 2019

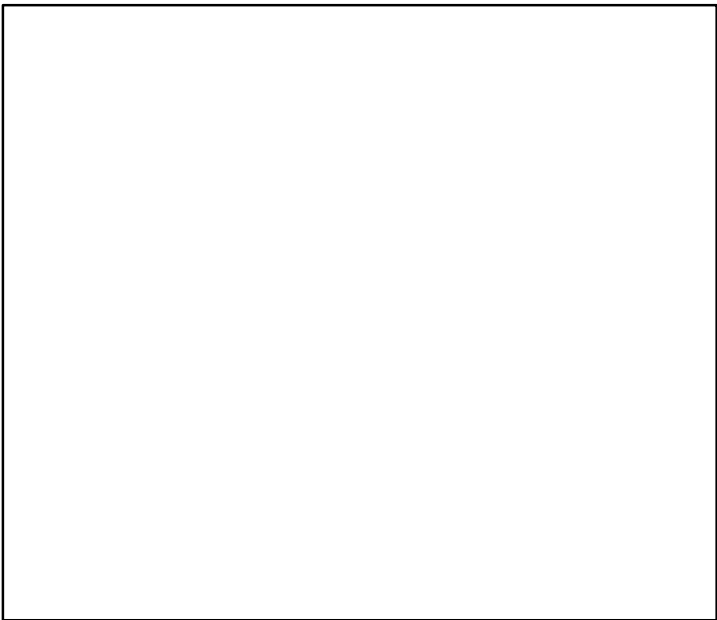
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	48		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

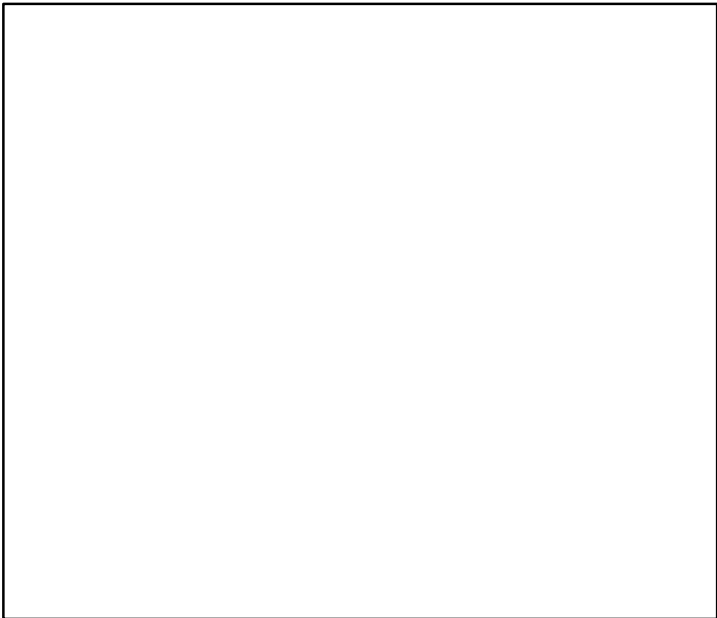
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Rosette skate Mid-Atlantic Coast [RSKATMATLC]

TB*



SSB*



TN *



F*



ER*



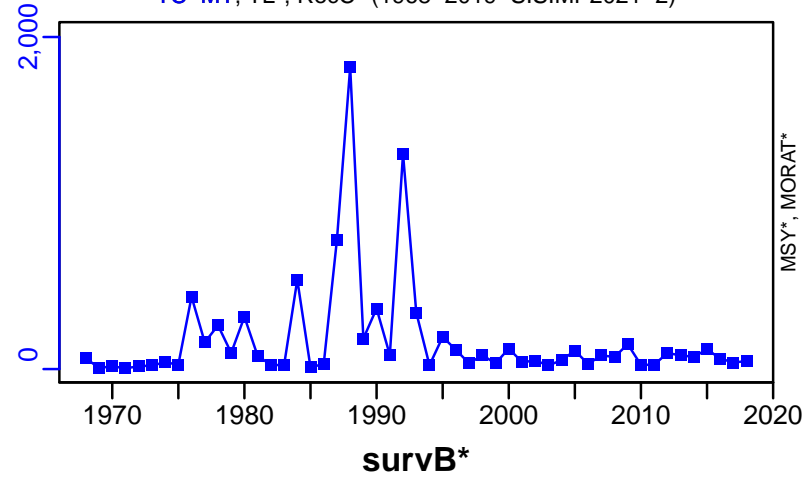
Recruits*



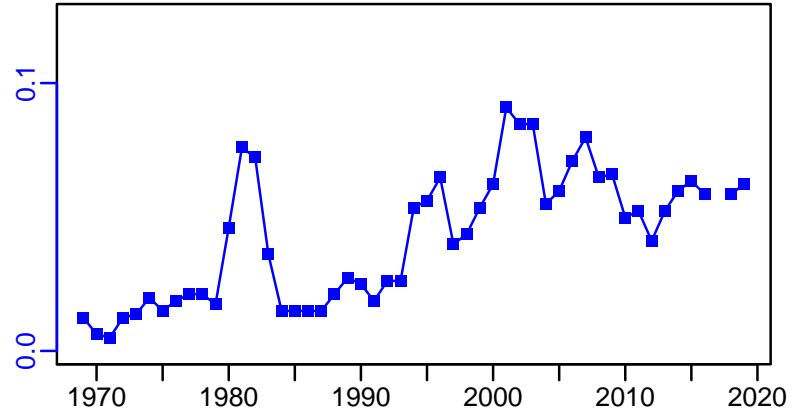
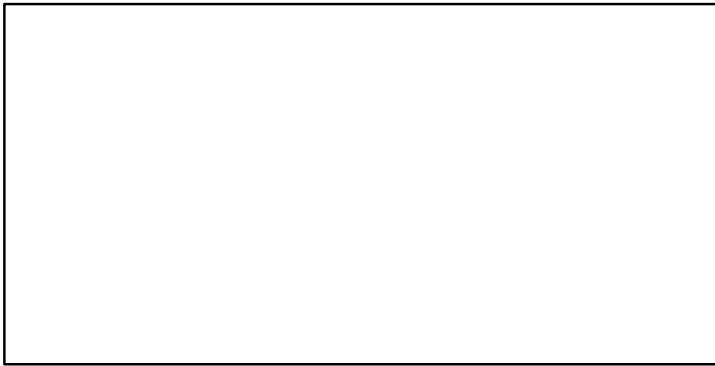
Rosette skate Mid-Atlantic Coast [RSKATMATLC]

TC-MT, TL*, RecC* (1968-2019-SISIMP2021-2)

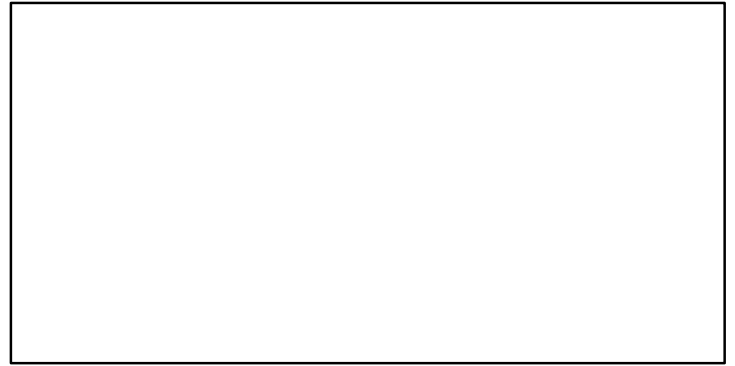
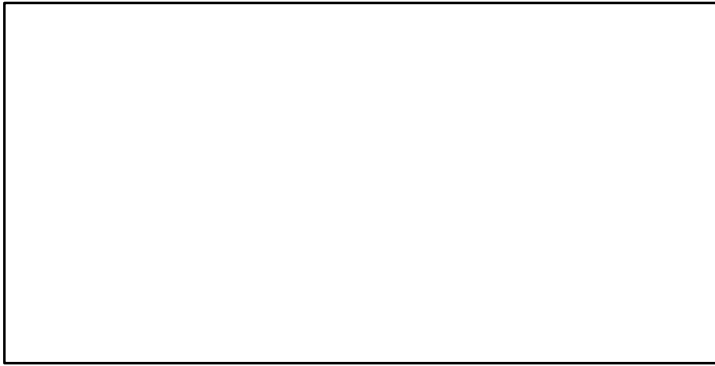
TAC*, Cpair*, Cadv*



CPUE-index (1968-2019-SISIMP2021-2)



EFFORT*



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

Sea scallop Georges Bank and Mid-Atlantic Bight [SCALL5ZMAB]

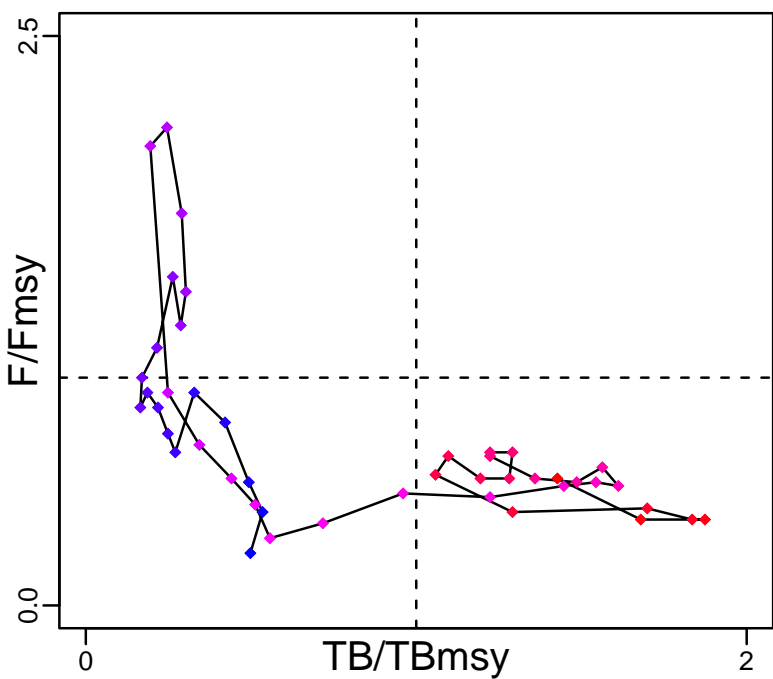
Metadata	
Scientific Name	Placopecten magellanicus
Current Assess ID	NEFSC-SCALL5ZMAB-1964-2019-SISIMP2021-2
Area	Georges Bank and Mid-Atlantic Bight
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2013, 2017, 2019

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

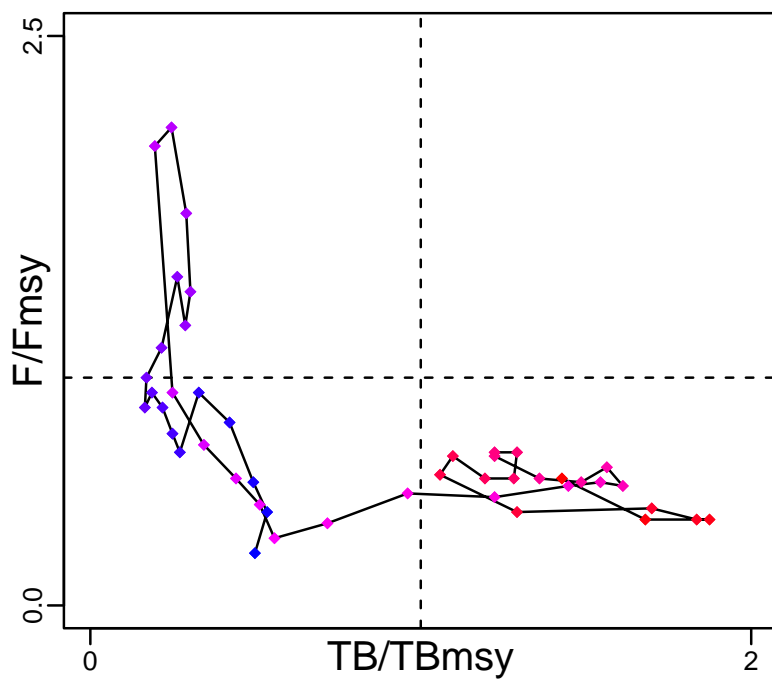
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	147,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2019	0.34	-	-
ER	ER-calc-ratio	2019	0.188	-	-
TC	TC-MT	2019	27,600		
TL	TL-MT	2013	18,700		
TB/TBmsy	TB-MT/TBmsy-MT	2019	1.427		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019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

Sea scallop Georges Bank and Mid-Atlantic Bight [SCALL5ZMAB]

Kobe MSYpref (1964–2019–SISIMP2021–2)



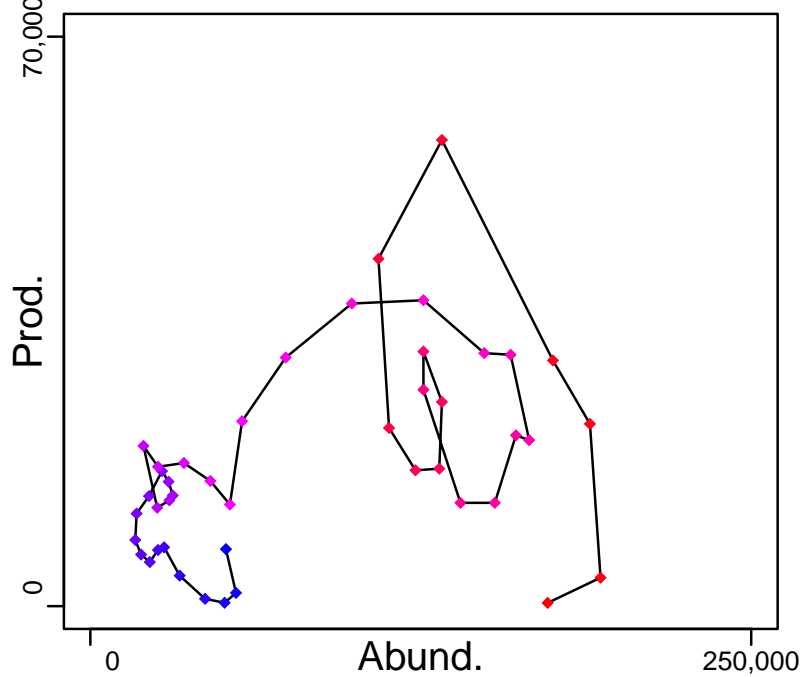
Kobe MGTpref (1964–2019–SISIMP2021–2)



Spawner Recruit*



Production (1964–2019–SISIMP2021–2)

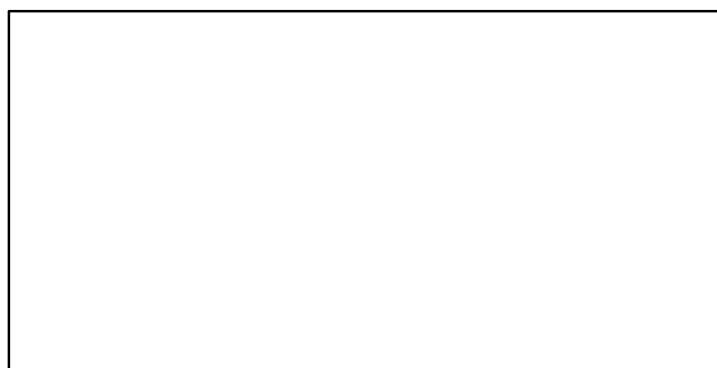
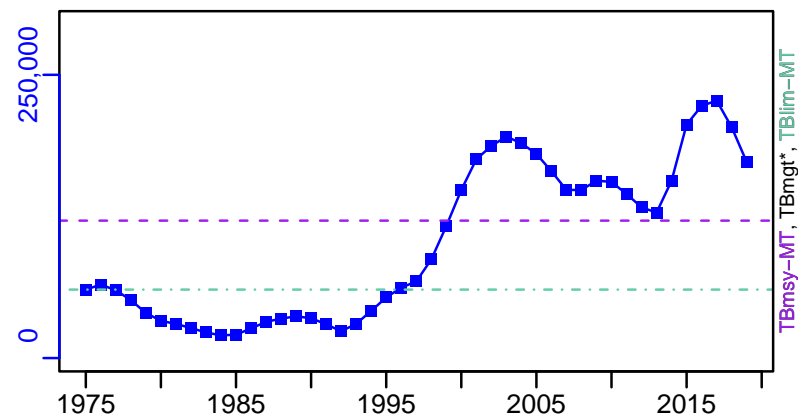


◆ Start Year ◆ End Year * No Data

Sea scallop Georges Bank and Mid-Atlantic Bight [SCALL5ZMAB]

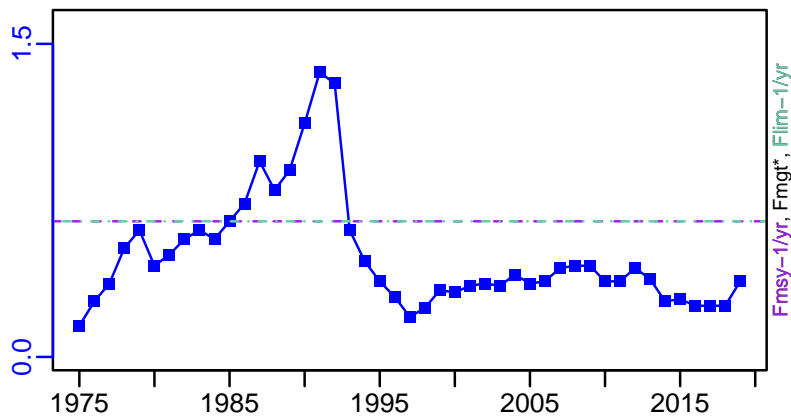
TB-MT (1964-2019-SISIMP2021-2)

SSB*



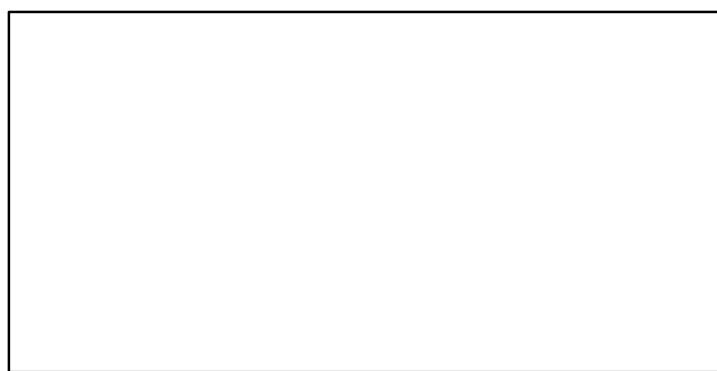
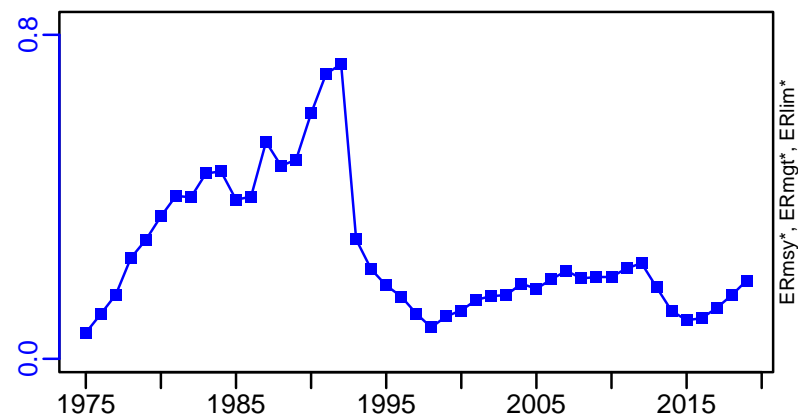
TN *

F-1/yr (1964-2019-SISIMP2021-2)



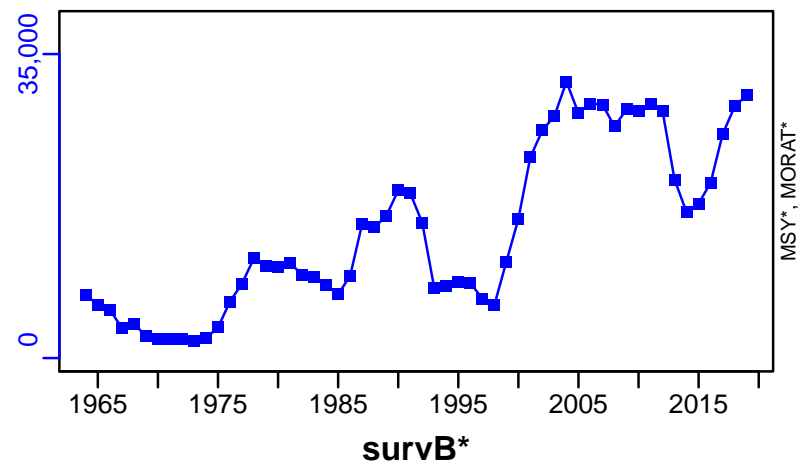
ER-calc-ratio (1964-2019-SISIMP2021-2)

Recruits*



Sea scallop Georges Bank and Mid-Atlantic Bight [SCALL5ZMAB]

TC-MT, TL*, RecC* (1964–2019–SISIMP2021–2)



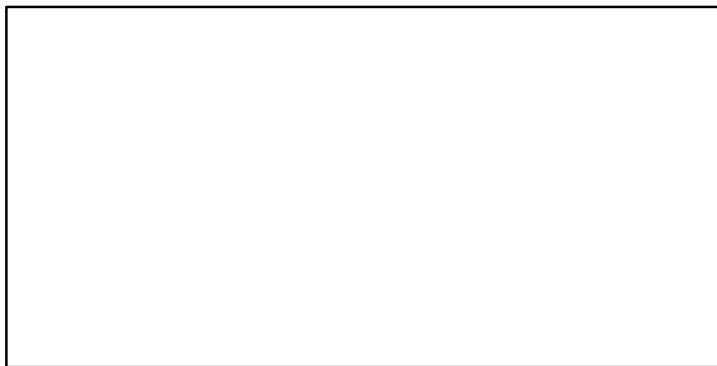
TAC*, Cpair*, Cadv*



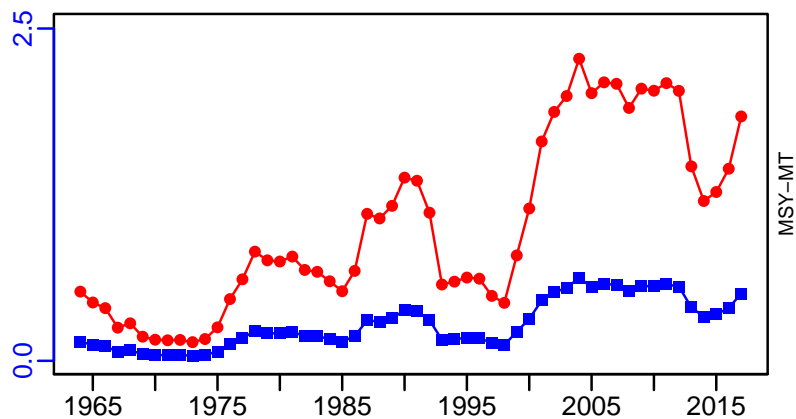
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1964–2017–SISIMP2021)



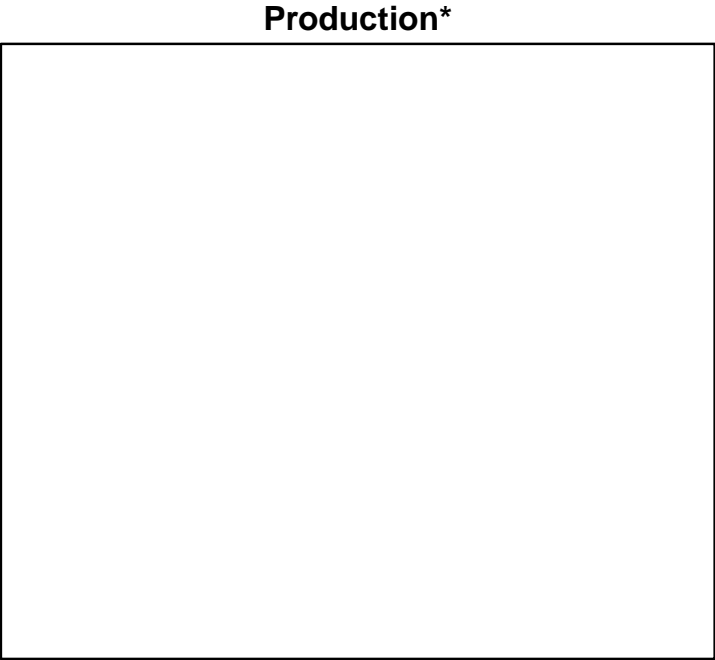
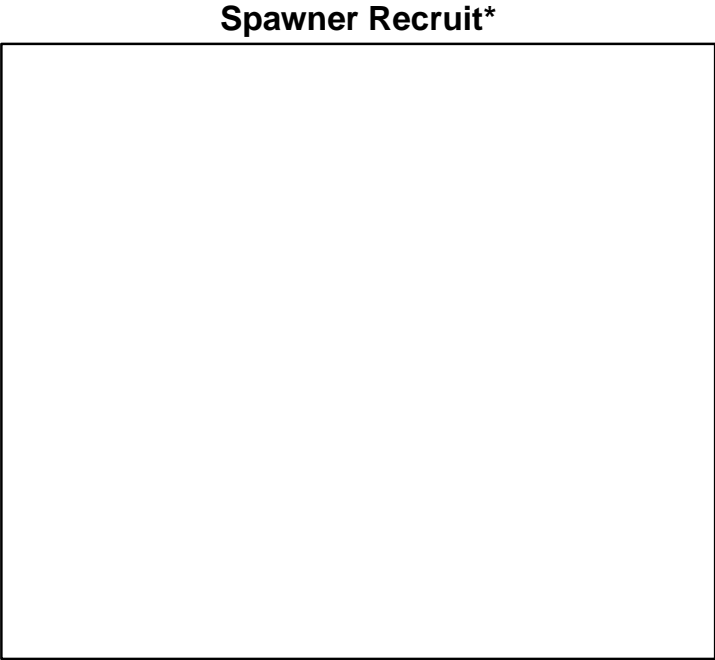
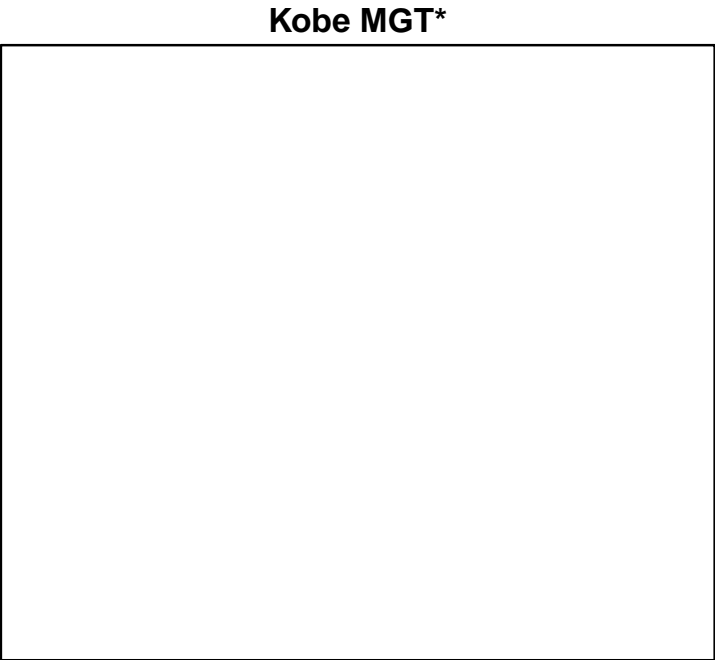
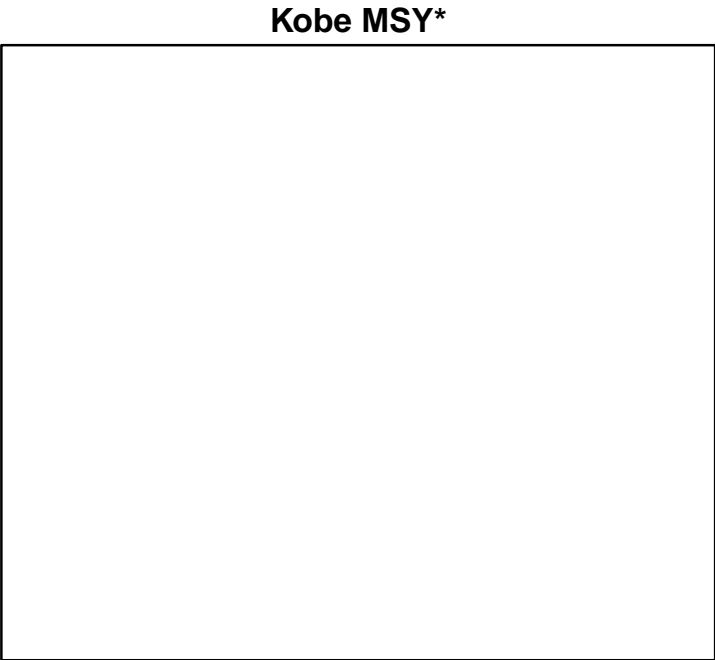
■ 1st listed time series ▲ 3rd listed time series — MORAT
● 2nd listed time series - - - MSY * No Data

Scalloped hammerhead Atlantic [SCHHEADATL]

Metadata	
Scientific Name	Sphyrna lewini
Current Assess ID	SEFSC-SCHHEADATL-1981-2005-SISIMP2016
Area	Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-E00	2005	7100
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-E00	2005	4140		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



◆ Start Year ♦ End Year * No Data

Scalloped hammerhead Atlantic [SCHHEADATL]

TB*



SSB*



TN *



F*



ER*



Recruits*



■ Listed time series

--- MSY-based BRP

--- Target BRP

--- Lim BRP

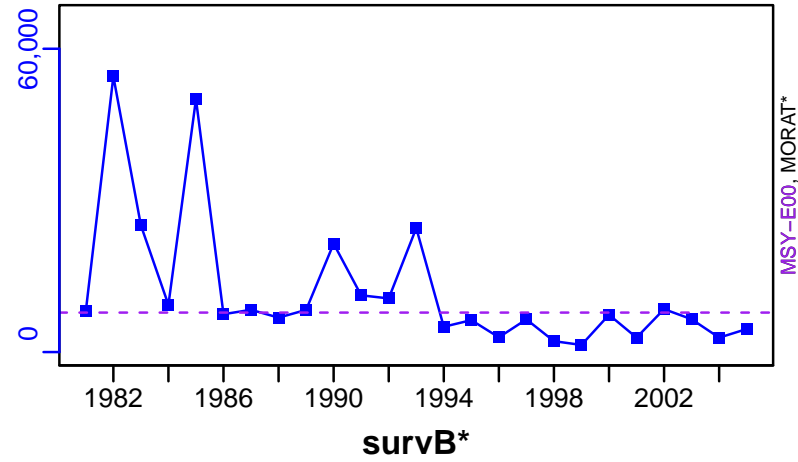
— Rec-Est

* No Data

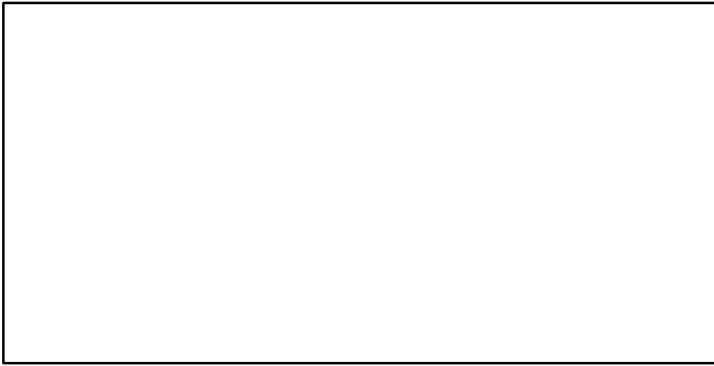
Scalloped hammerhead Atlantic [SCHHEADATL]

TL-E00, TC*, RecC* (1981-2005-SISIMP2016)

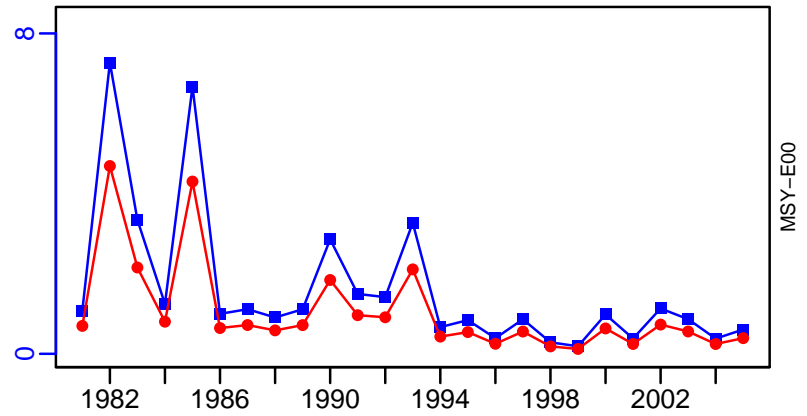
TAC*, Cpair*, Cadv*



EFFORT*



TL-E00/MSY-E00, CdivMEANC-ratio, (1981-2005-SISIMP2016)



Scup Northwestern Atlantic Coast [SCUPNWATLC]

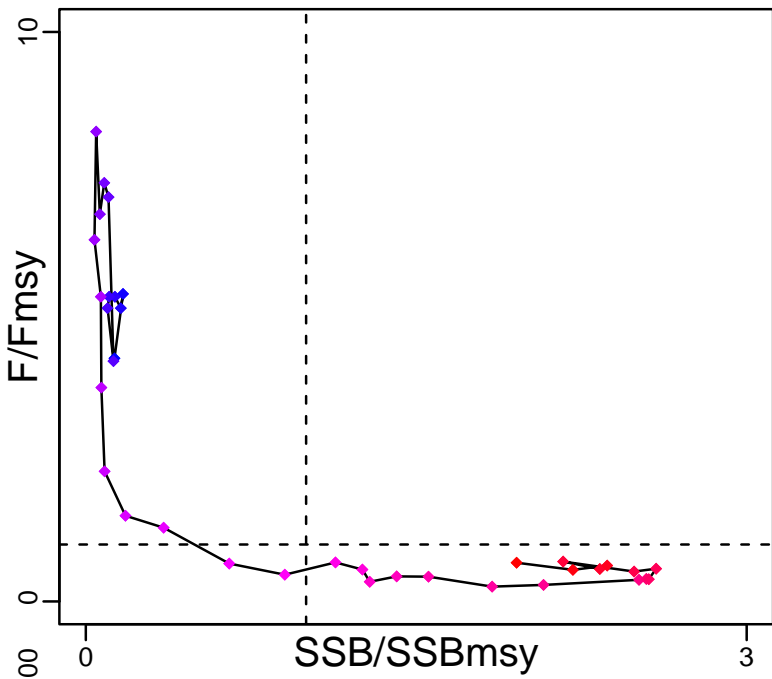
Metadata	
Scientific Name	Stenotomus chrysops
Current Assess ID	NEFSC-SCUPNWATLC-1981-2019-SISIMP2021-2
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016, 2018, 2019, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	90,000
Fmsy	Fmsy-1/yr	2019	0.2
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	12,700
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	45,000
Flim	Flim-1/yr	2019	0.2
ERlim	-	-	-

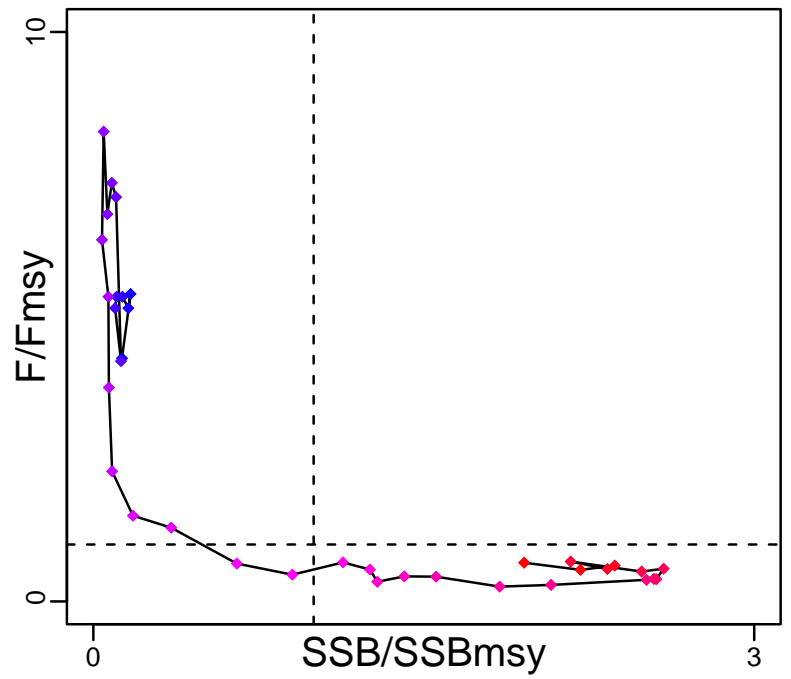
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	176,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	3.41×10^{10}	-	0
F	F-1/yr	2019	0.136	-	-
ER	ER-ratio	2007	0.029	-	-
TC	TC-MT	2019	16,000		
TL	TL-MT	2007	4200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	1.956		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.68		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Scup Northwestern Atlantic Coast [SCUPNWATLC]

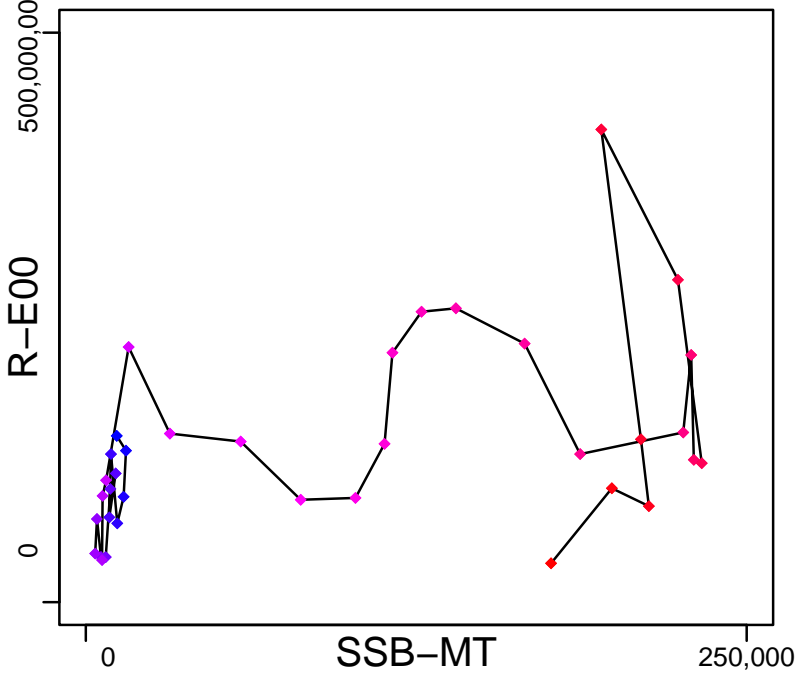
Kobe MSYpref (1981–2019–SISIMP2021–2)



Kobe MGTpref (1981–2019–SISIMP2021–2)



Spawner Recruit (1981–2019–SISIMP2021–2)



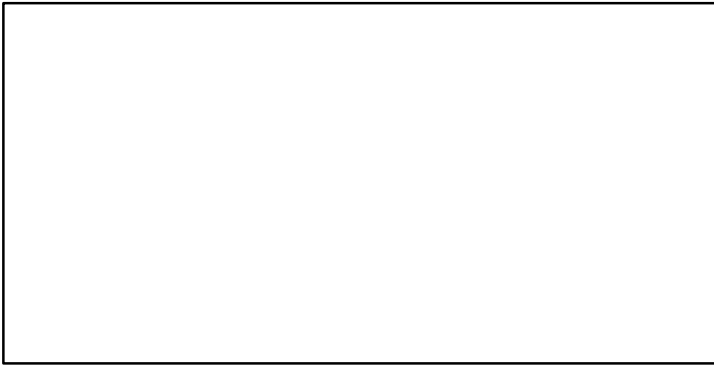
Production*



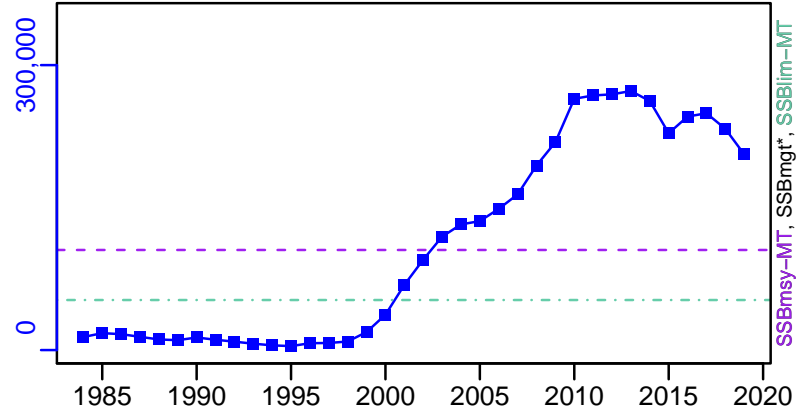
◆ Start Year ◆ End Year * No Data

Scup Northwestern Atlantic Coast [SCUPNWATLC]

TB*



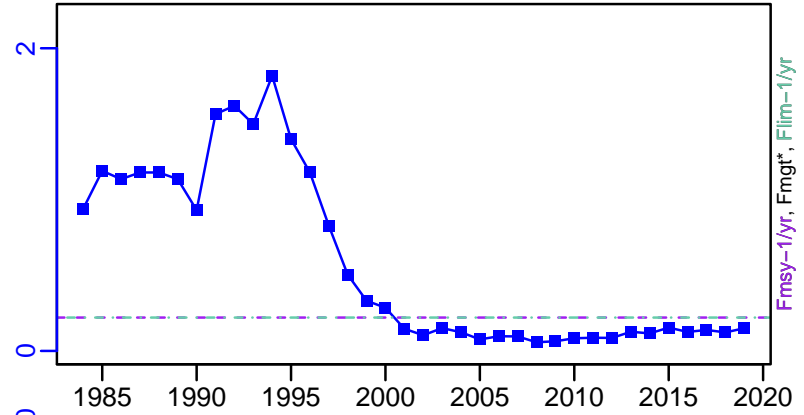
SSB-MT (1981–2019–SISIMP2021–2)



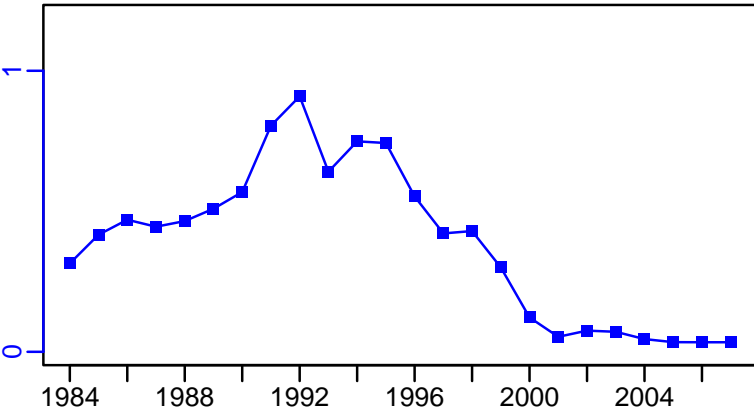
TN *



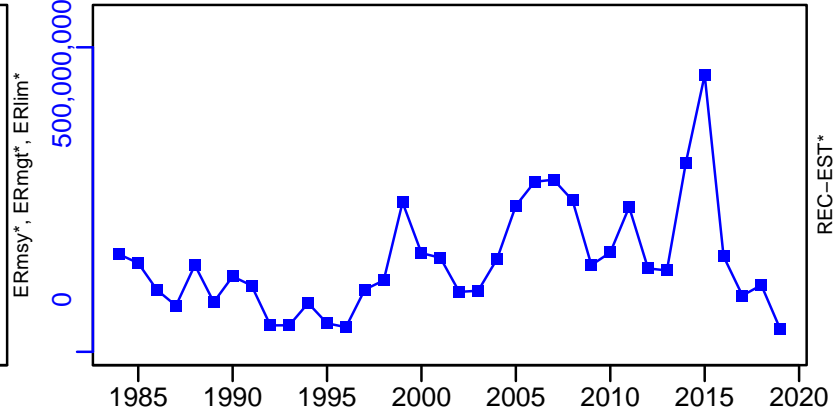
F-1/yr (1981–2019–SISIMP2021–2)



ER-ratio (1960–2007–TERCEIRO)

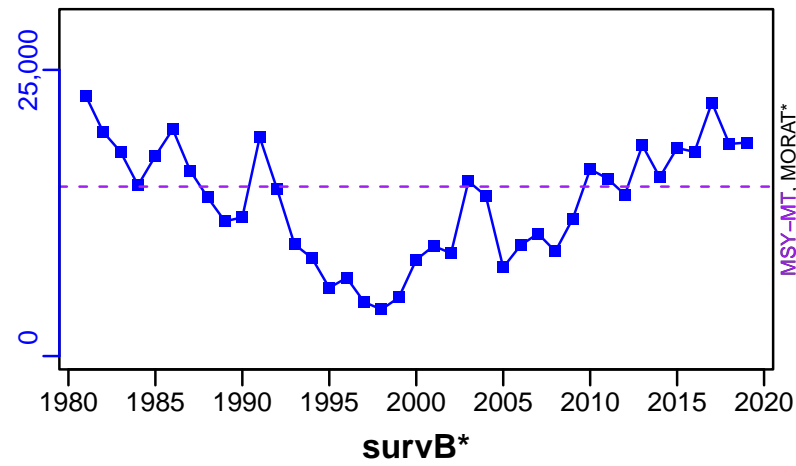


R-E00 (1981–2019–SISIMP2021–2)



Scup Northwestern Atlantic Coast [SCUPNWATLC]

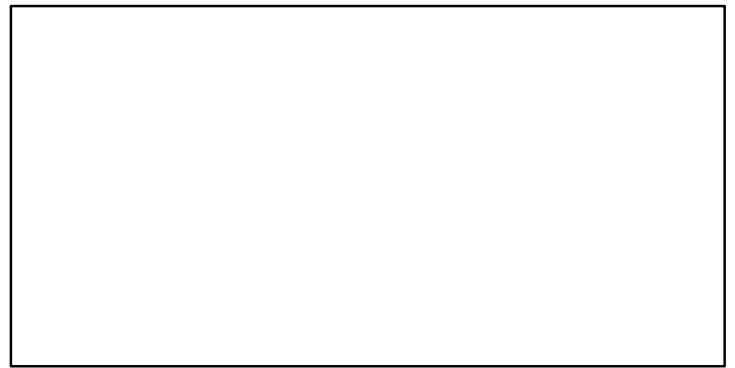
TC-MT, TL*, RecC* (1981-2019-SISIMP2021-2)



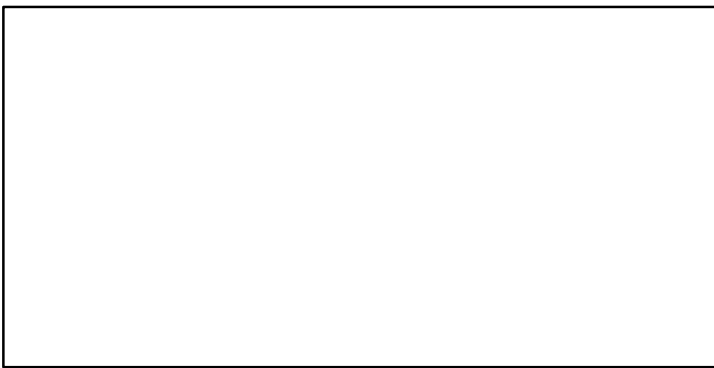
TAC*, Cpair*, Cadv*



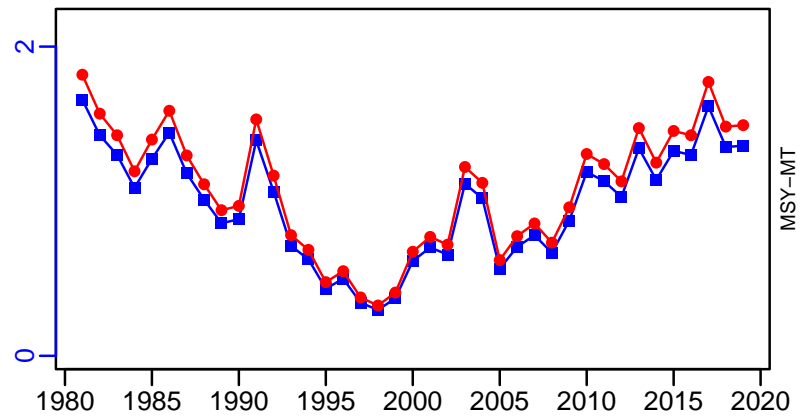
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2019-SISIMP2021-2)



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

Spiny dogfish Atlantic Coast [SDOGATLC]

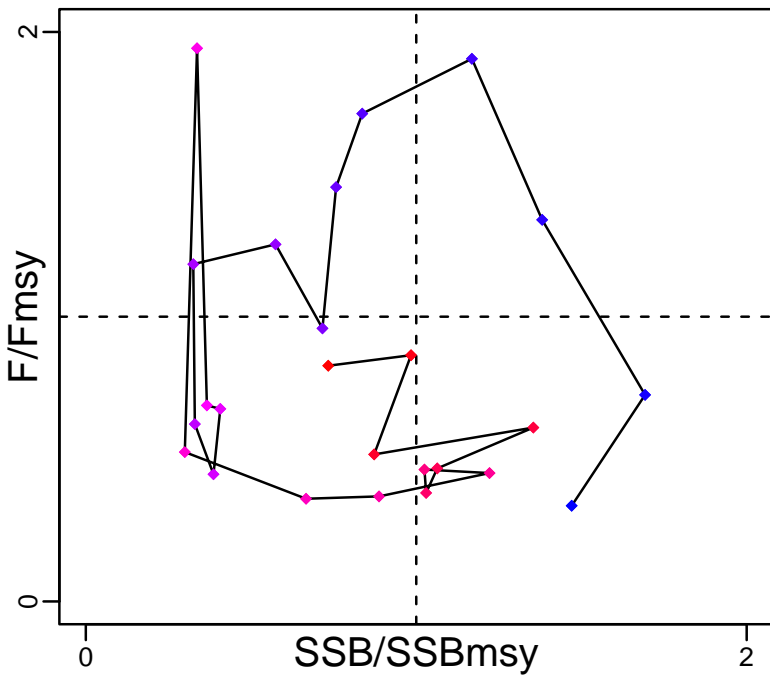
Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	NEFSC-SDOGATLC-1968-2018-SISIMP2021
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2006, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	159,300
Fmsy	Fmsy-1/yr	2018	0.244
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	79,600
Flim	Flim-1/yr	2015	0.244
ERlim	-	-	-

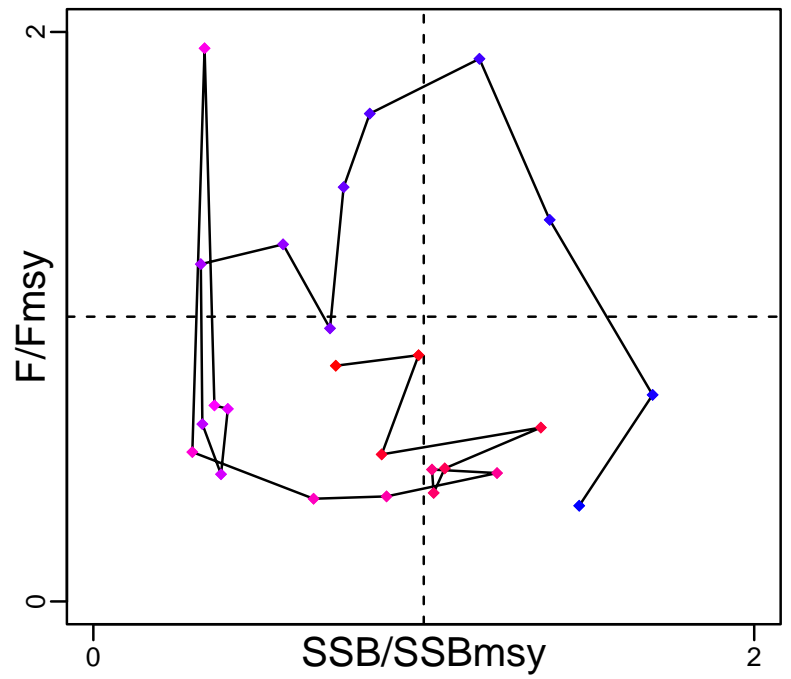
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	454,000	-	-
SSB	SSB-MT	2018	106,753	-	-
TN	-	-	-	-	-
R	R-MT	2018	1510	-	-
F	F-1/yr	2018	0.202	-	-
ER	ER-ratio	2006	0.017	-	-
TC	TC-MT	2018	14,326		
TL	TL-MT	2006	3020		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.67		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.828		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Spiny dogfish Atlantic Coast [SDOGATLC]

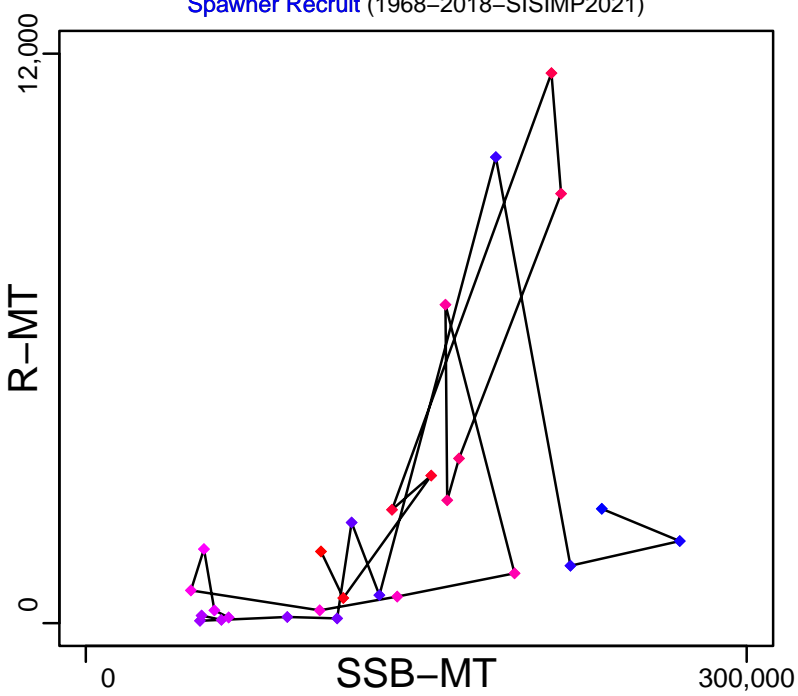
Kobe MSYpref (1968–2018–SISIMP2021)



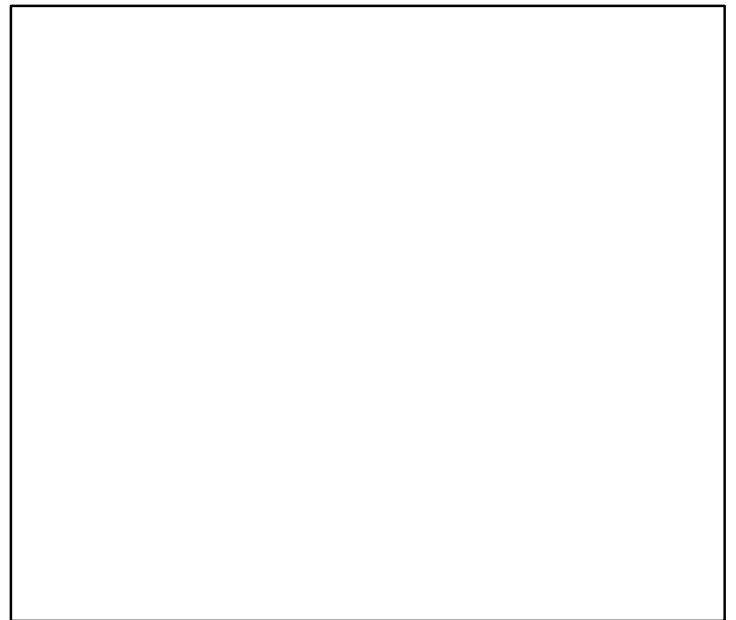
Kobe MGTpref (1968–2018–SISIMP2021)



Spawner Recruit (1968–2018–SISIMP2021)



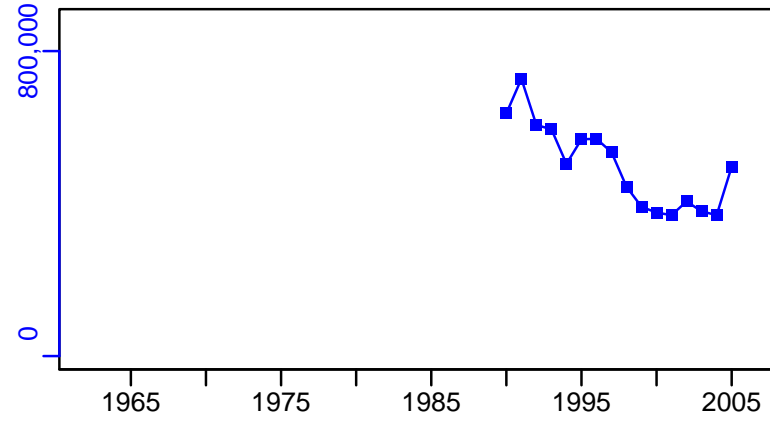
Production*



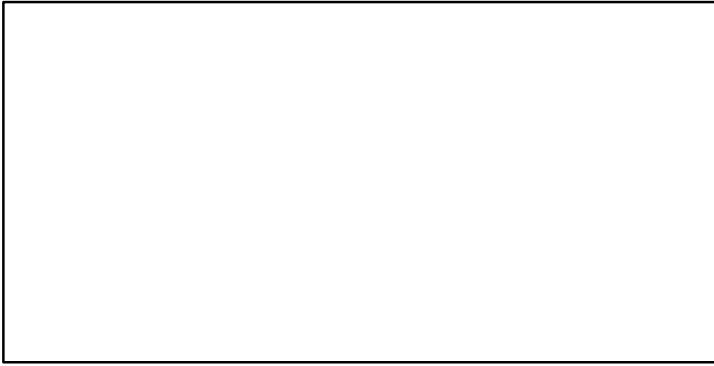
◆ Start Year ◆ End Year * No Data

Spiny dogfish Atlantic Coast [SDOGATLC]

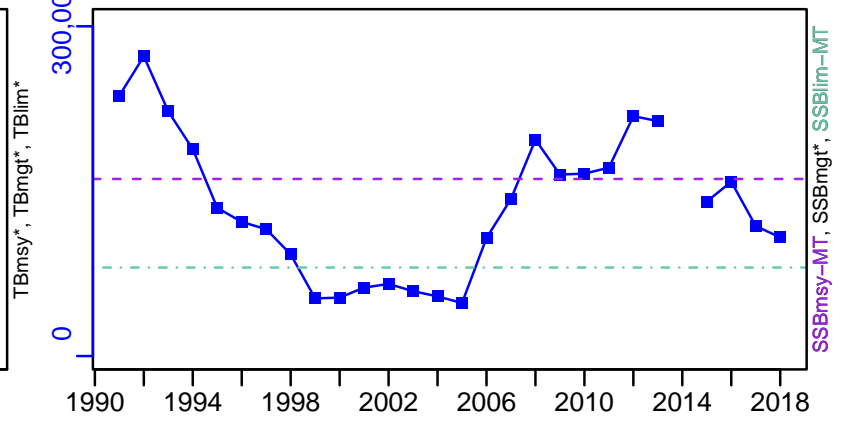
TB-MT (1962–2006–SOSEBEE)



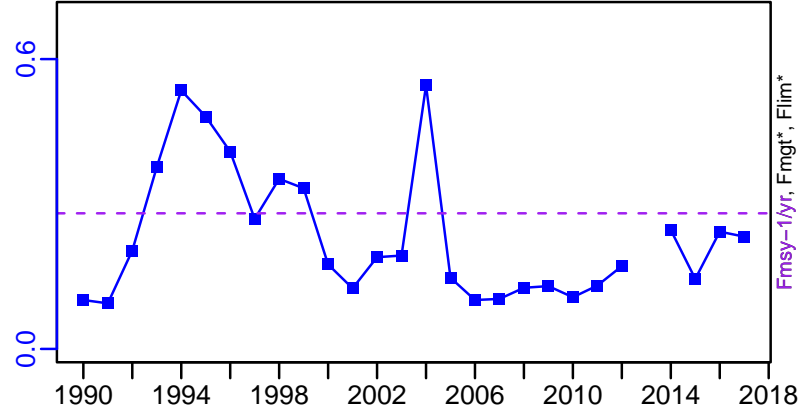
TN *



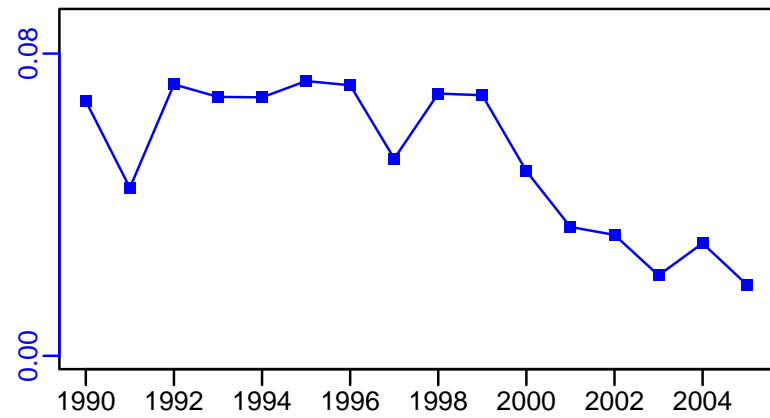
SSB-MT (1968–2018–SISIMP2021)



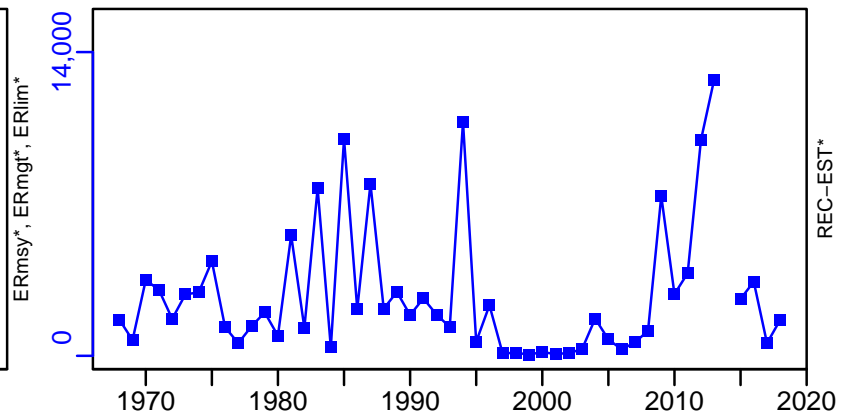
F-1/yr (1968–2018–SISIMP2021)



ER-ratio (1962–2006–SOSEBEE)



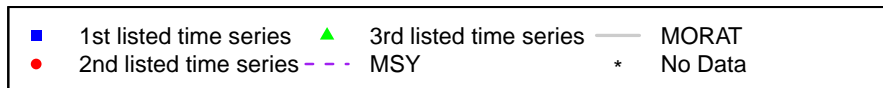
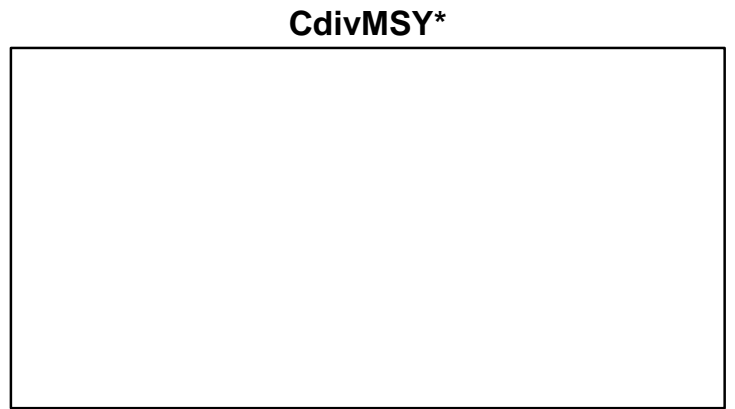
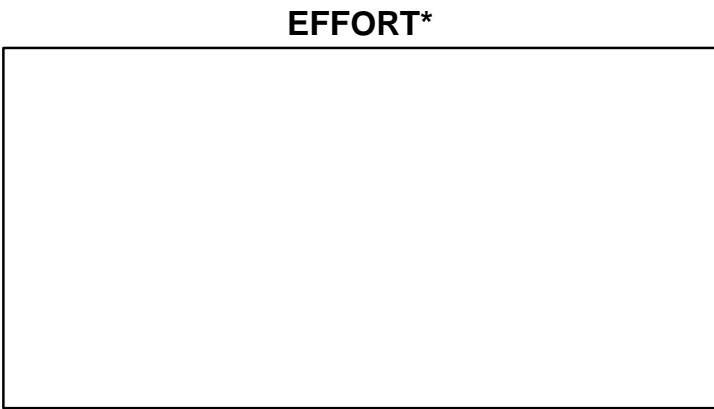
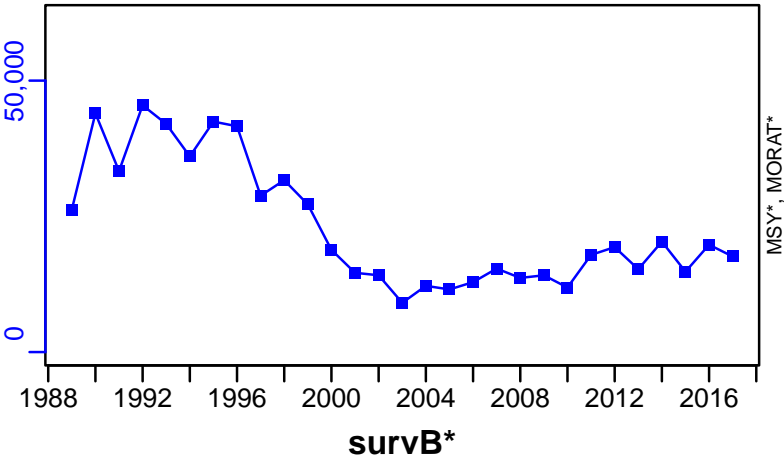
R-MT (1968–2018–SISIMP2021)



Spiny dogfish Atlantic Coast [SDOGATLC]

TC-MT, TL*, RecC* (1968-2018-SISIMP2021)

TAC*, Cpair*, Cadv*



Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

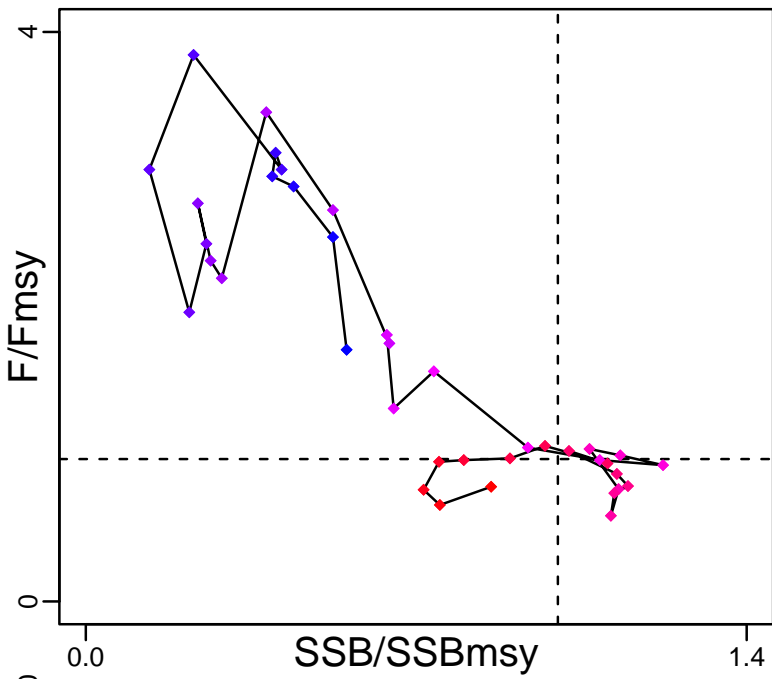
Metadata	
Scientific Name	Paralichthys dentatus
Current Assess ID	NEFSC-SFLOUNMATLC-1982-2019-SISIMP2021-2
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2014, 2015, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	55,200
Fmsy	Fmsy-1/yr	2019	0.422
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	15,900
M	M-1/yr	2012	0.25
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	27,600
Flim	Flim-1/yr	2019	0.422
ERlim	-	-	-

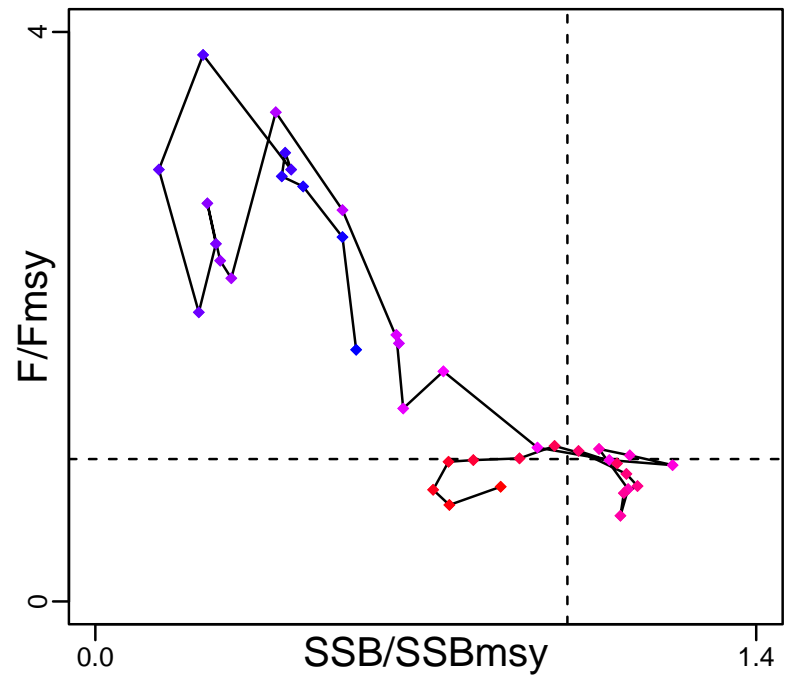
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	47,400	-	-
TN	TN-E00	2012	1.17×10^8	-	-
R	R-E00	2019	48,700,000	-	0
F	F-1/yr	2019	0.34	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	9810		
TL	TL-MT	2012	6050		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.859		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.806		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

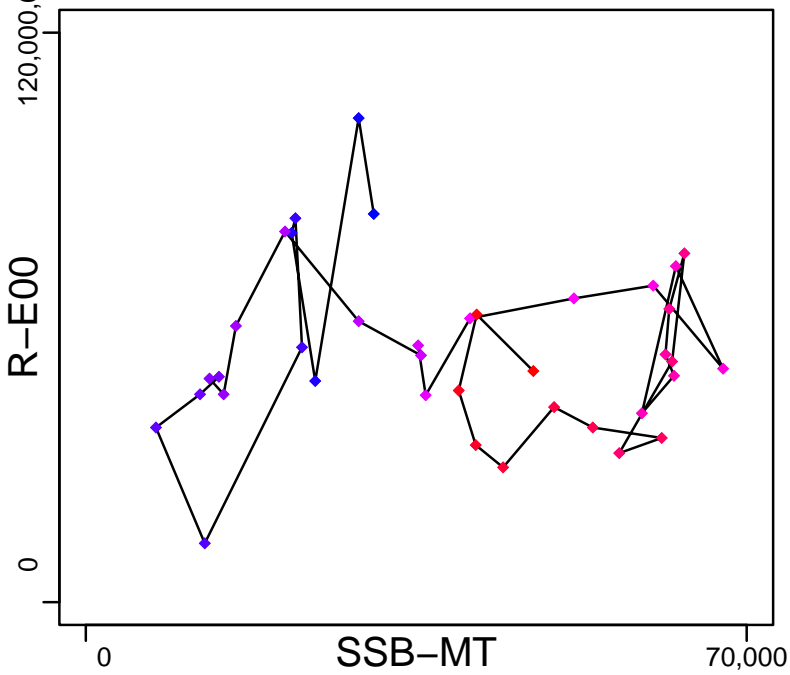
Kobe MSYpref (1982–2019–SISIMP2021–2)



Kobe MGTpref (1982–2019–SISIMP2021–2)



Spawner Recruit (1982–2019–SISIMP2021–2)



Production*



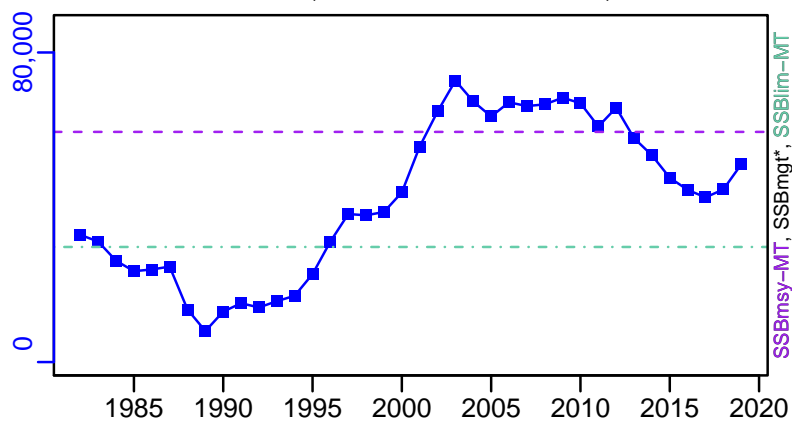
◆ Start Year ◆ End Year * No Data

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

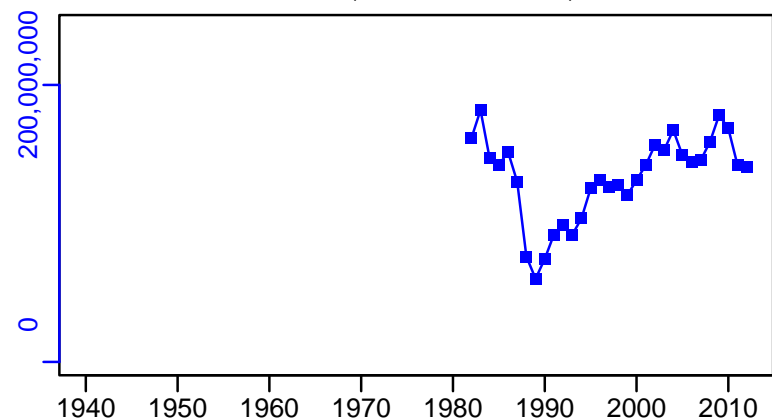
TB*



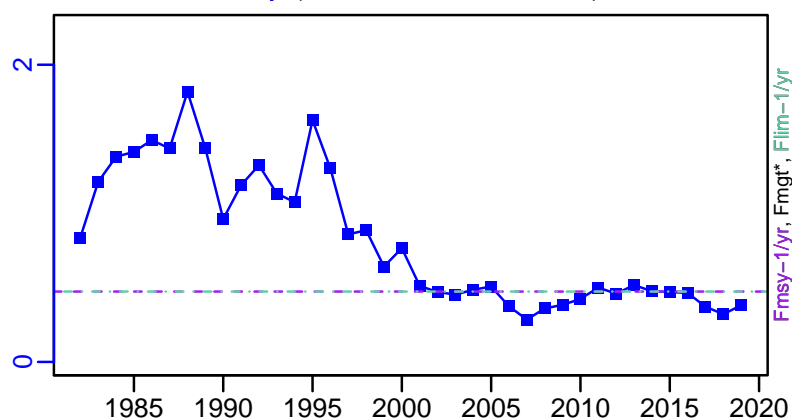
SSB-MT (1982-2019-SISIMP2021-2)



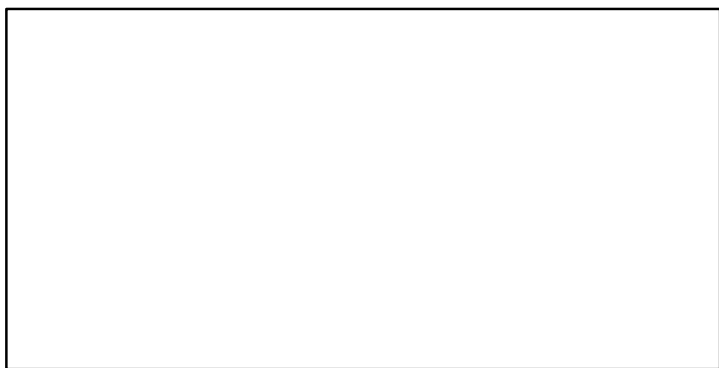
TN-E00 (1940-2012-HIVELY)



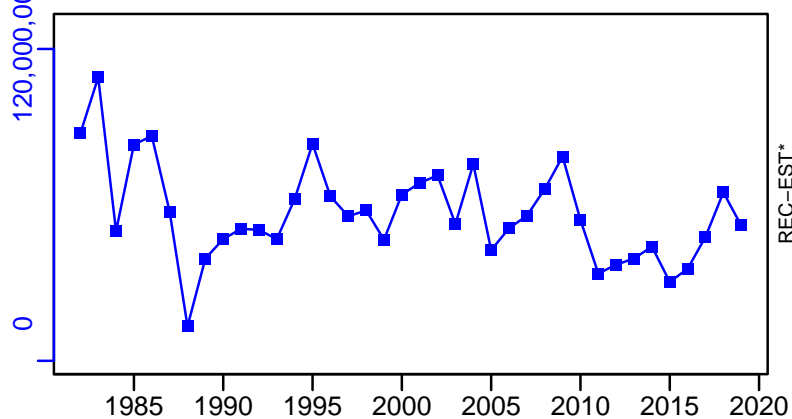
F-1/yr (1982-2019-SISIMP2021-2)



ER*

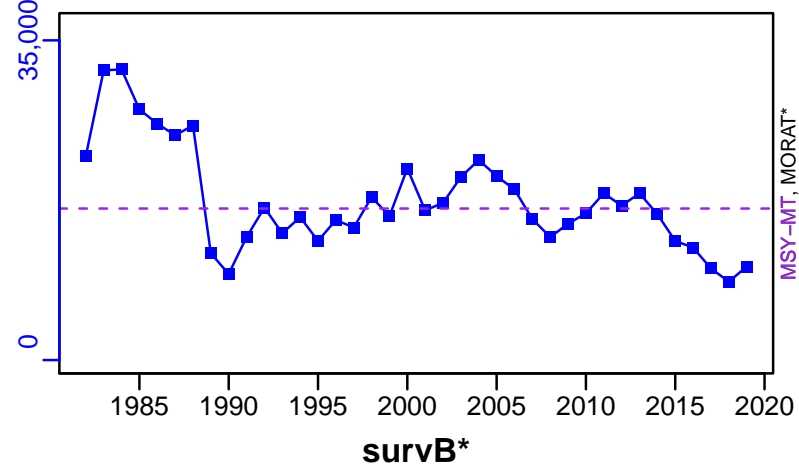


R-E00 (1982-2019-SISIMP2021-2)



Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

TC-MT, TL*, RecC* (1982-2019-SISIMP2021-2)



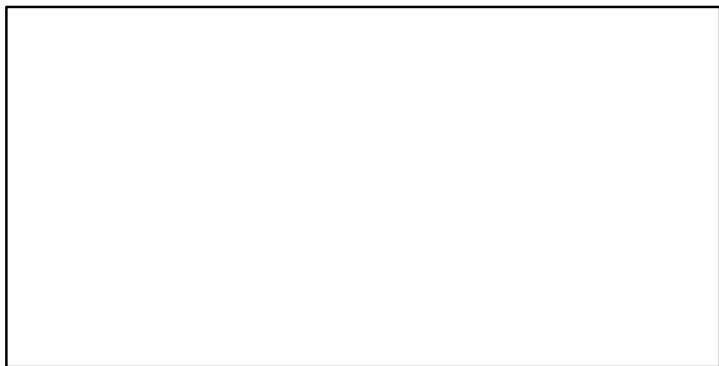
TAC*, Cpair*, Cadv*



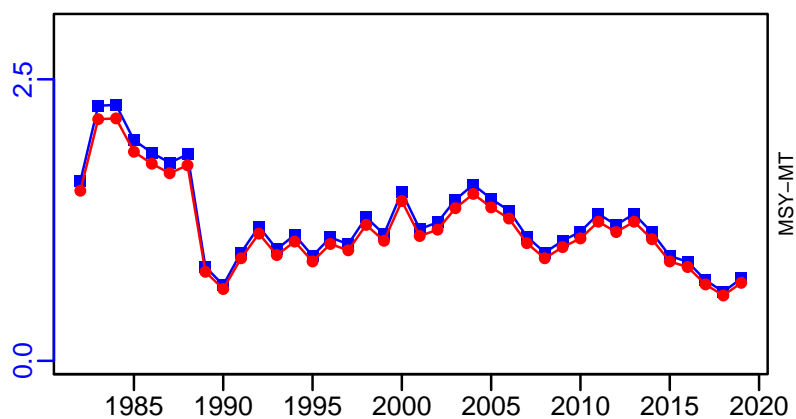
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2019-SISIMP2021-2)



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

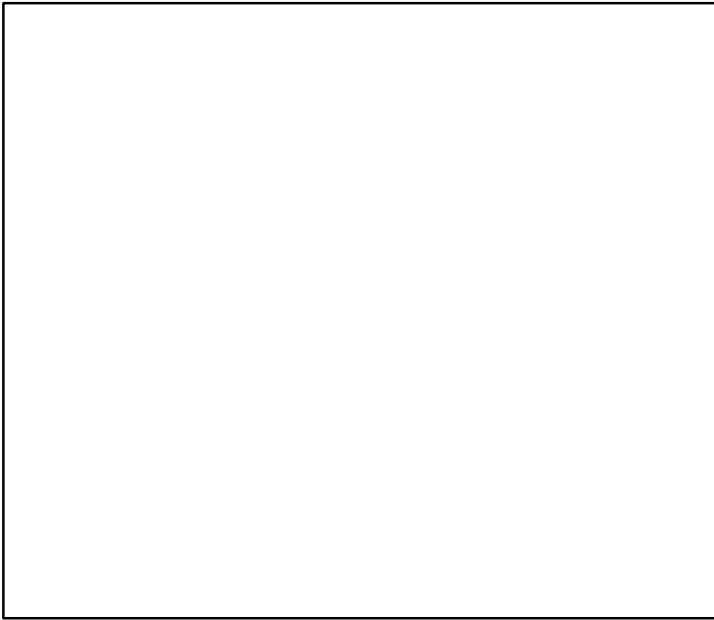
Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKEGOMNGB-1973-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2013, 2016, 2019

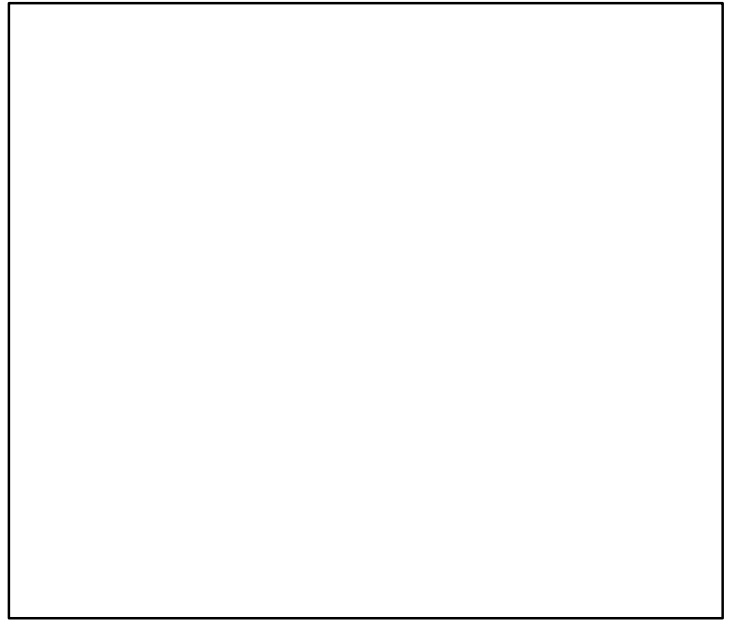
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	3213
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	2.77
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	8900
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	2.77

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2009	14,300,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.15	-	-
TC	TC-MT	2019	1300		
TL	TL-MT	2009	972		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.054		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

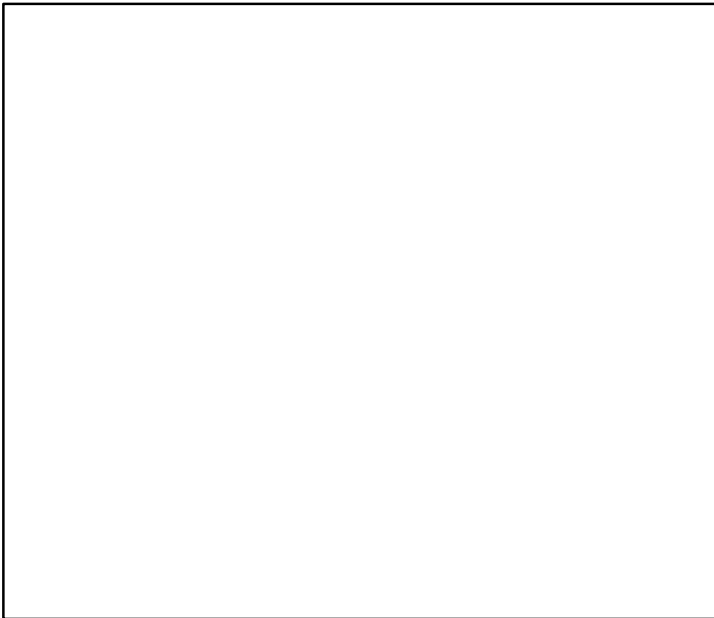
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



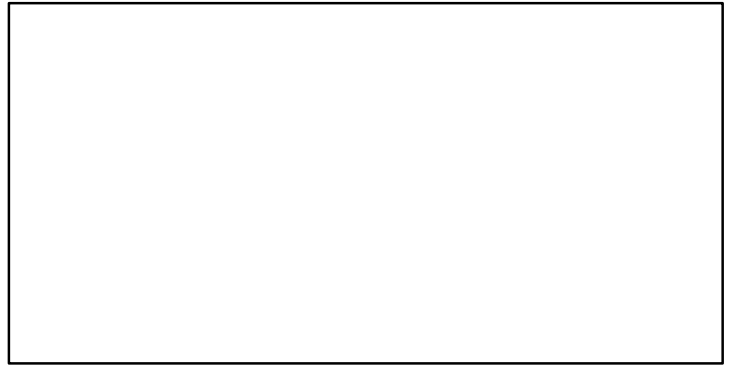
◆ Start Year ◆ End Year * No Data

Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

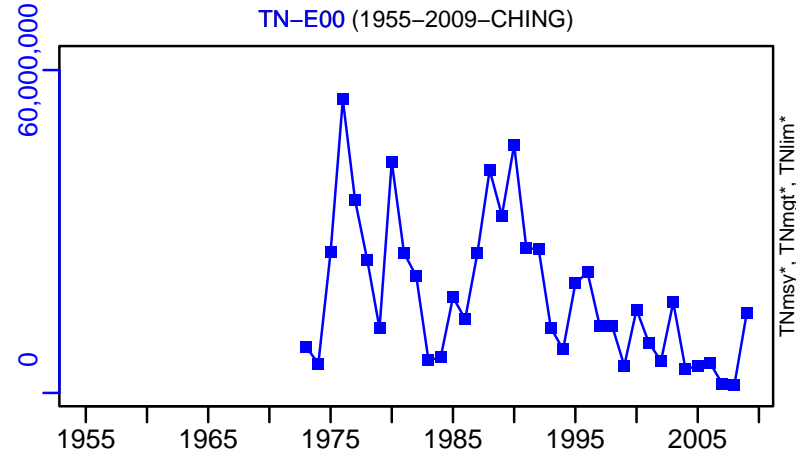
TB*



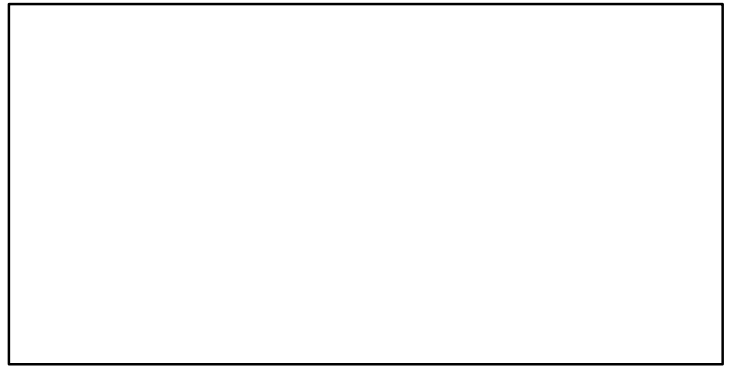
SSB*



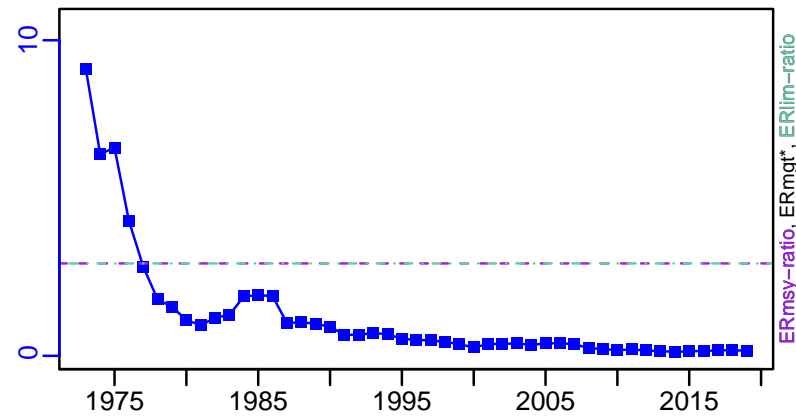
TN-E00 (1955–2009–CHING)



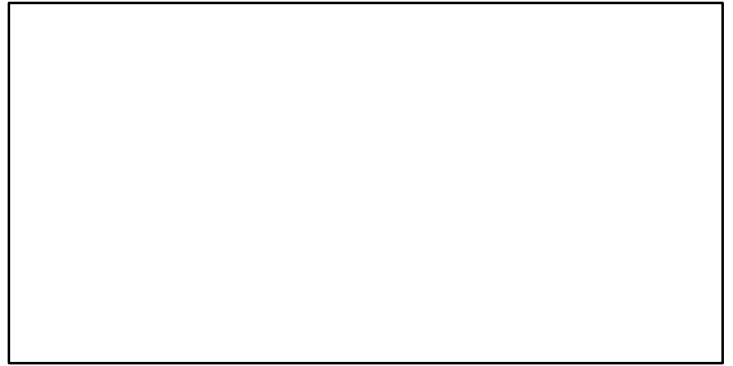
F*



ER-ratio (1973–2019–SISIMP2021–2)



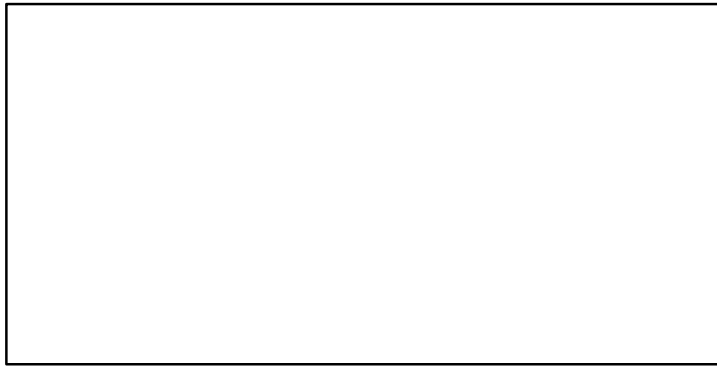
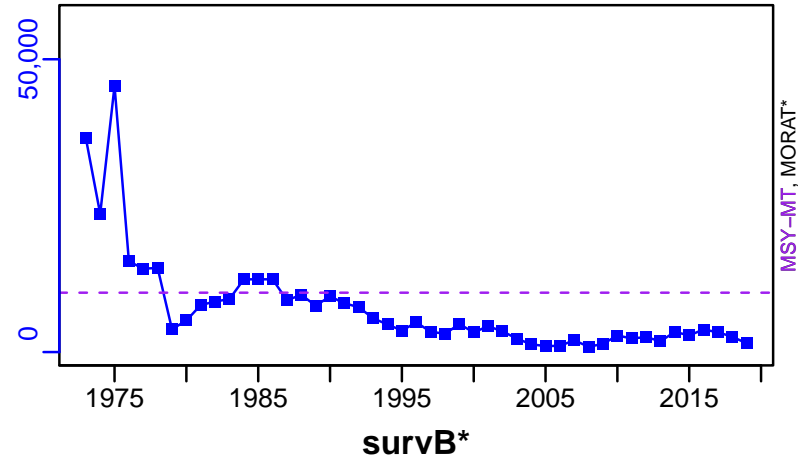
Recruits*



Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

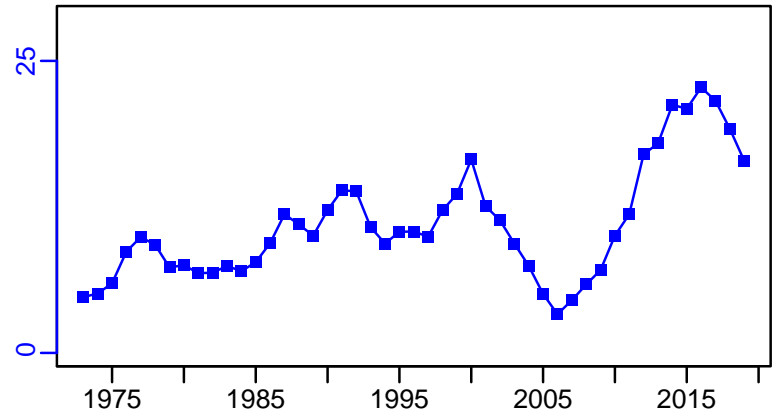
TC-MT, TL*, RecC* (1973-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

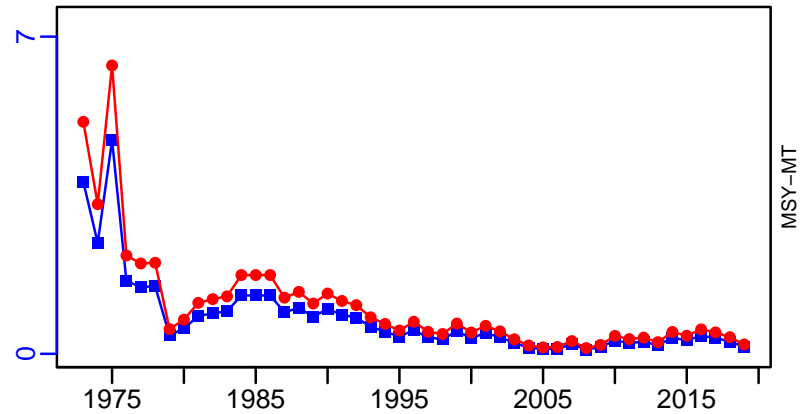


EFFORT*

CPUE-index (1973-2019-SISIMP2021-2)



TC-MT/MSY-MT, CdivMEANC-ratio, (1973-2019-SISIMP2021-2)



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

Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKESGBMATL-1973-2019-SISIMP2021-2
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2013, 2016, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2019	825
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2019	34.2
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	28,200
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	34.2

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	TN-E00	2009	1,690,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	1.91	-	-
TC	TC-MT	2019	5400		
TL	TL-MT	2009	6640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2019	0.056		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

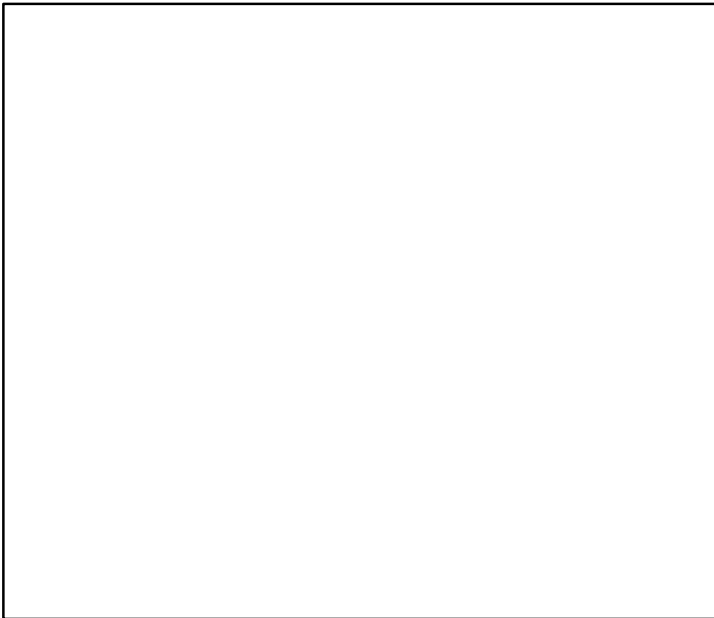
Kobe MSY*



Kobe MGT*



Spawner Recruit*



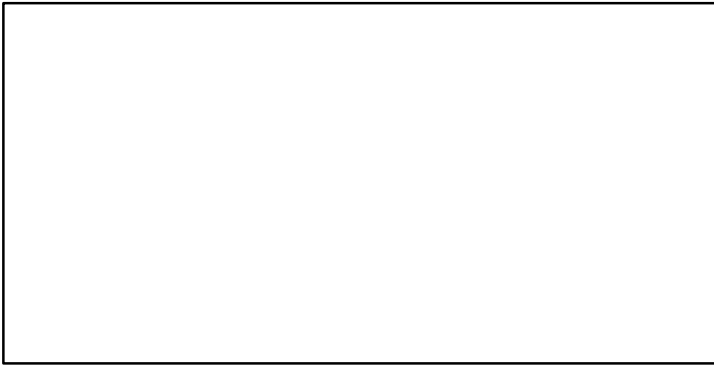
Production*



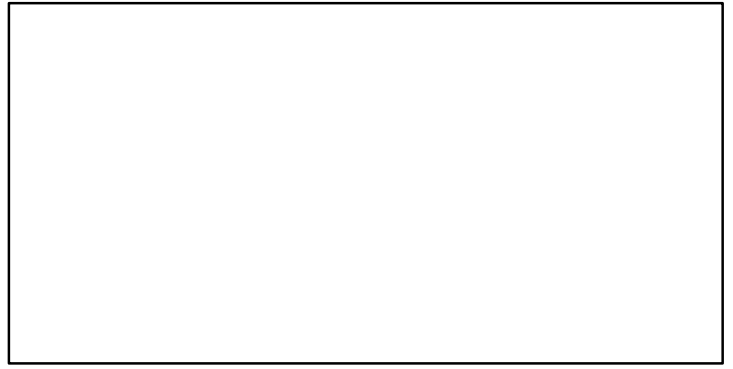
◆ Start Year ◆ End Year * No Data

Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

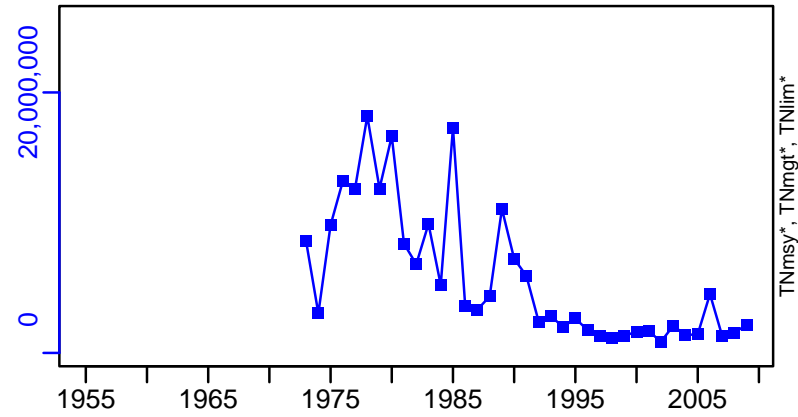
TB*



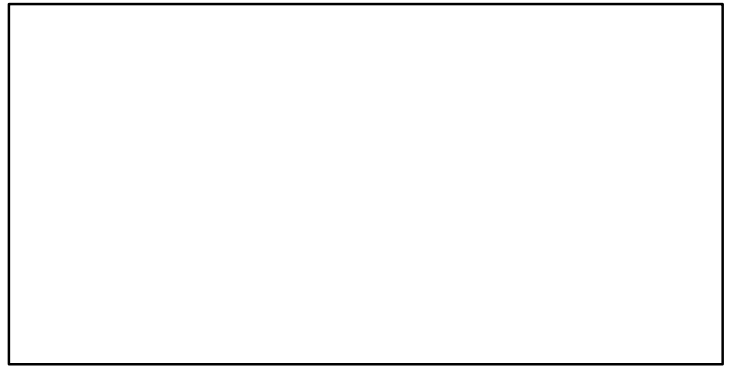
SSB*



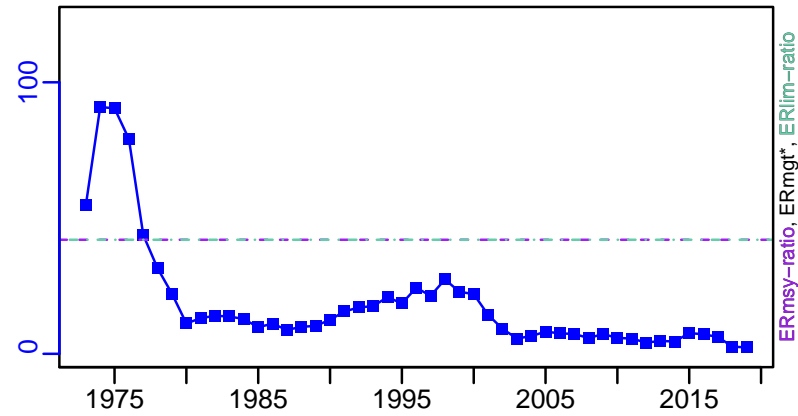
TN-E00 (1955–2009–CHING)



F*



ER-ratio (1973–2019–SISIMP2021–2)



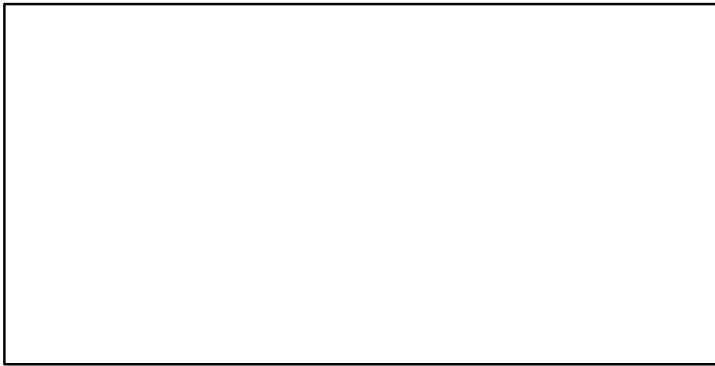
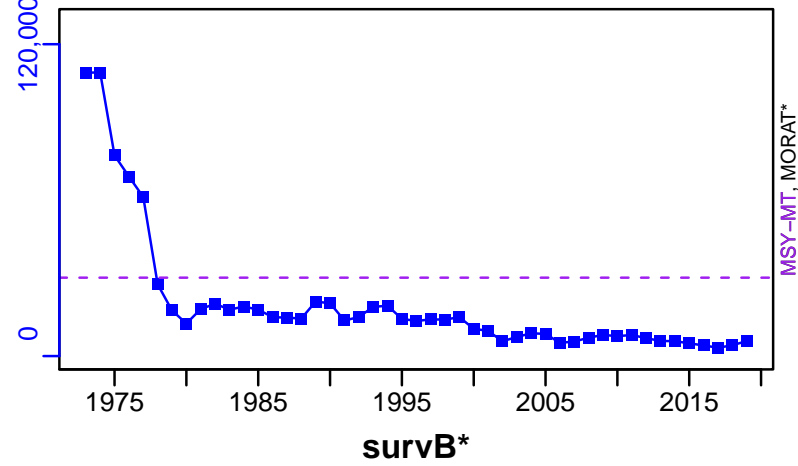
Recruits*



Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

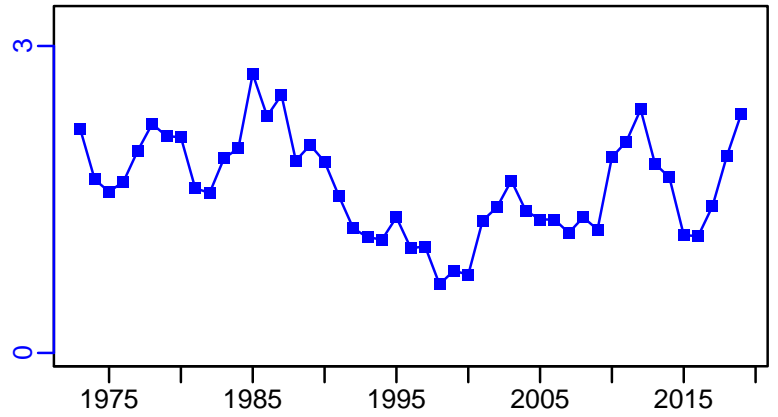
TC-MT, TL*, RecC* (1973-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*

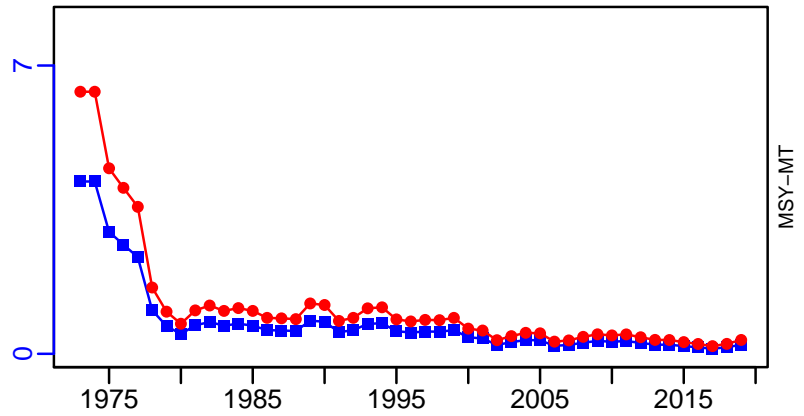


EFFORT*

CPUE-index (1973-2019-SISIMP2021-2)



TC-MT/MSY-MT, CdivMEANC-ratio, (1973-2019-SISIMP2021-2)

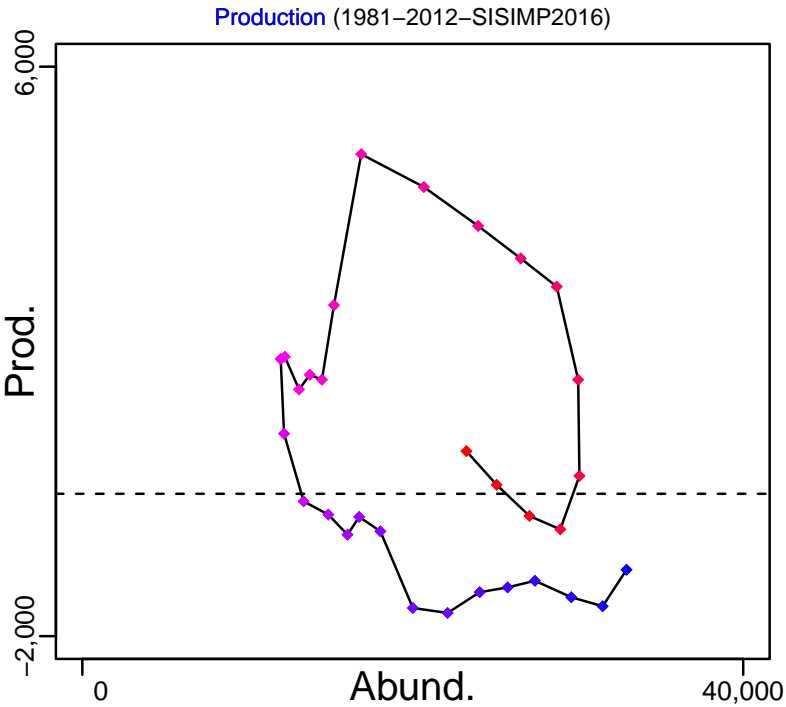
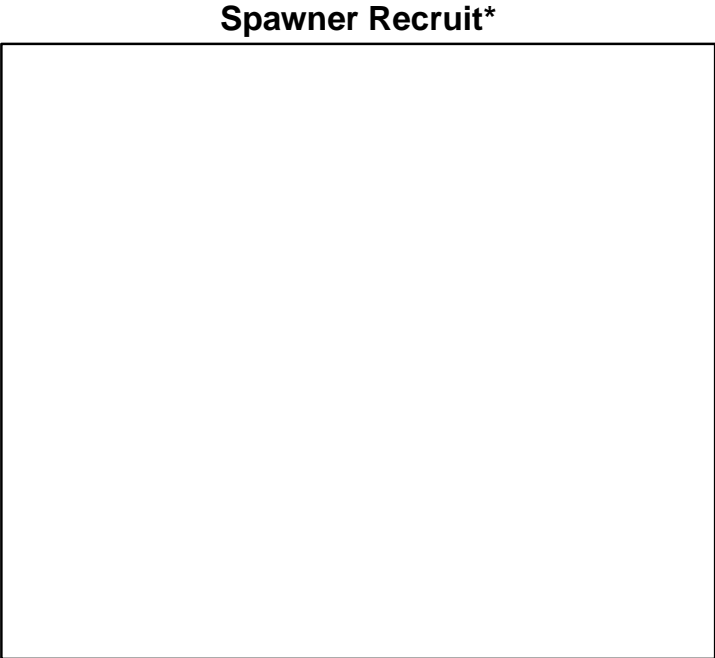
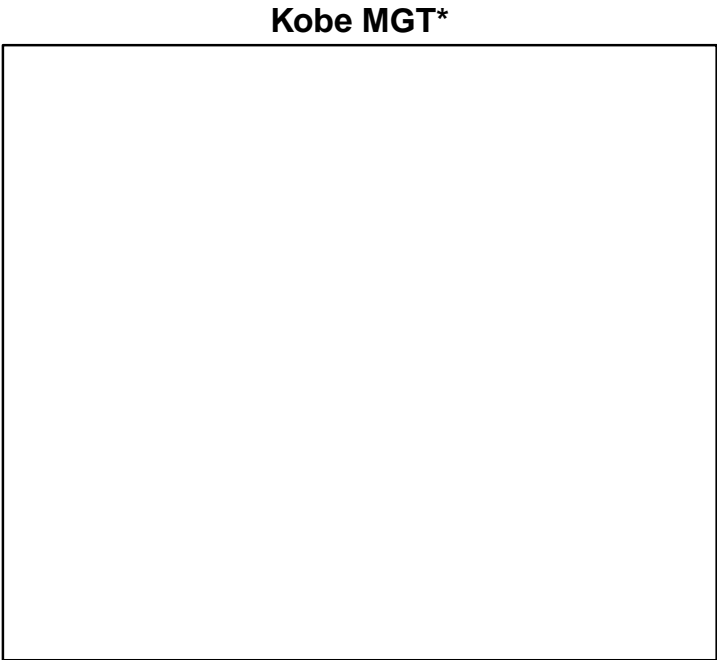
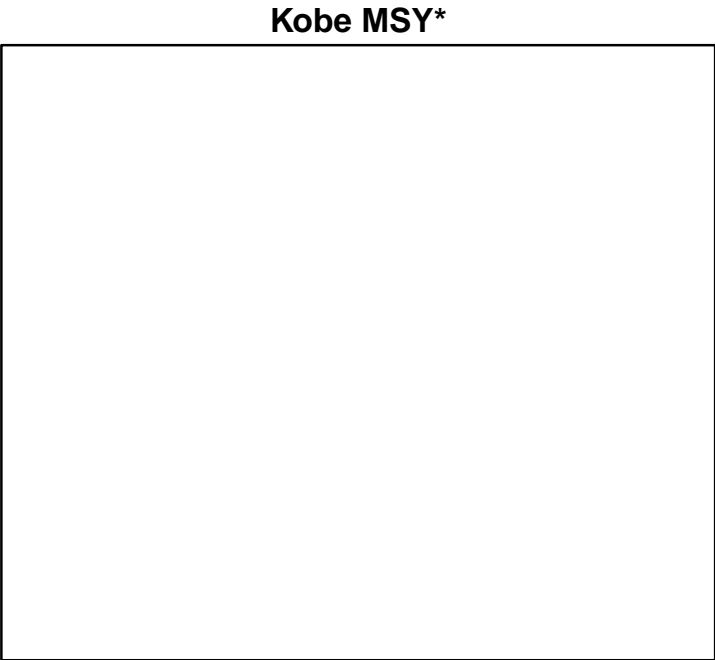


Smooth dogfish Atlantic [SMDOGATL]

Metadata	
Scientific Name	Mustelus canis
Current Assess ID	SEFSC-SMDOGATL-1981-2012-SISIMP2016
Area	Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Southeast Fisheries Science Center
Asmts in RAM	2012

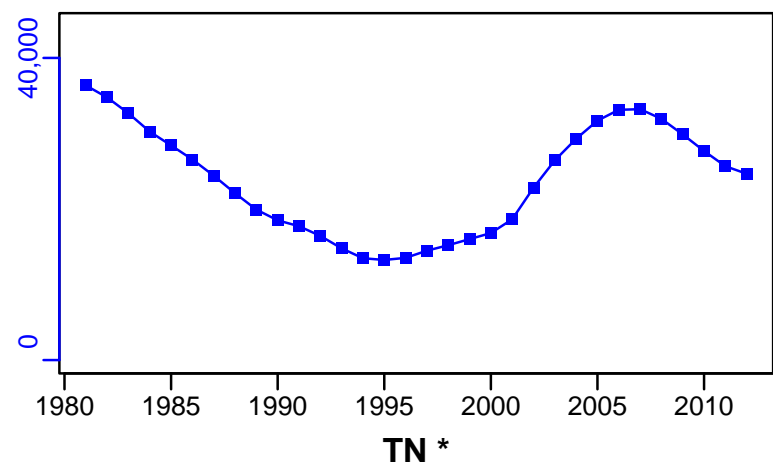
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-E00pups	2012	4,746,000
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2012	0.129
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-E00pups	2012	3,701,000
Flim	-	-	-
ERlim	ERlim-ratio	2012	0.129

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	22,340	-	-
SSB	SSB-E00pups	2012	10,800,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.102	-	-
TC	TC-MT	2012	1451		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.791		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

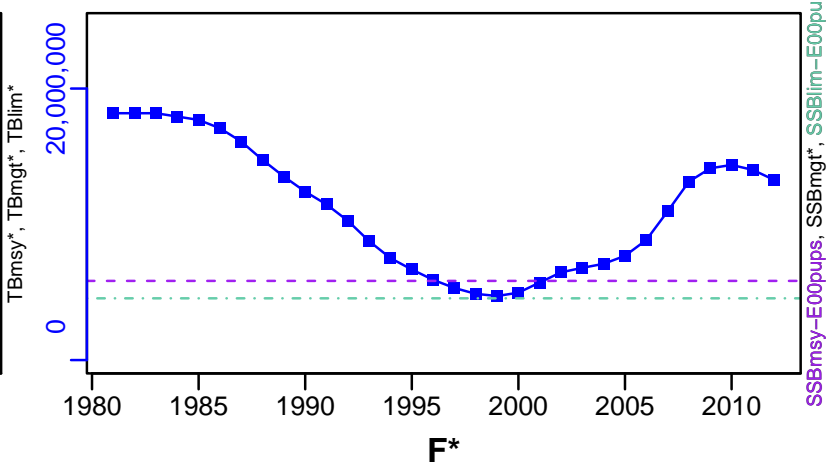


Smooth dogfish Atlantic [SMDOGATL]

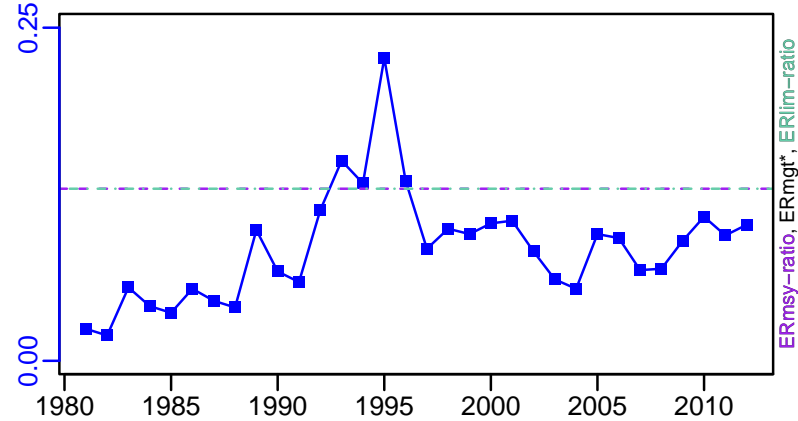
TB-MT (1981–2012–SISIMP2016)



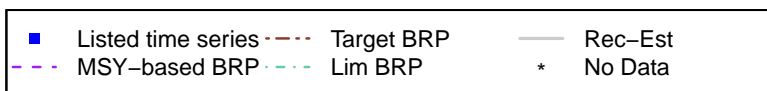
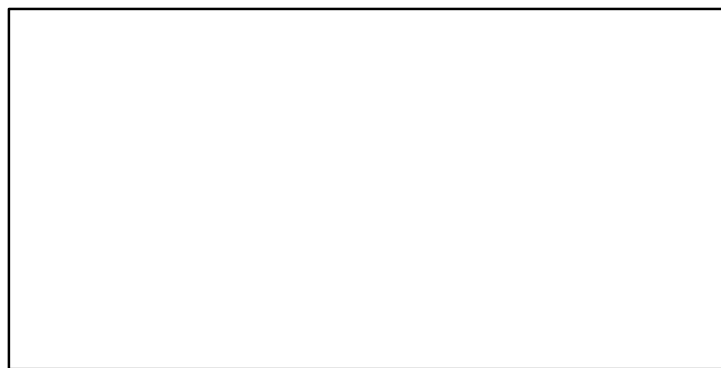
SSB-E00pups (1981–2012–SISIMP2016)



ER-ratio (1981–2012–SISIMP2016)

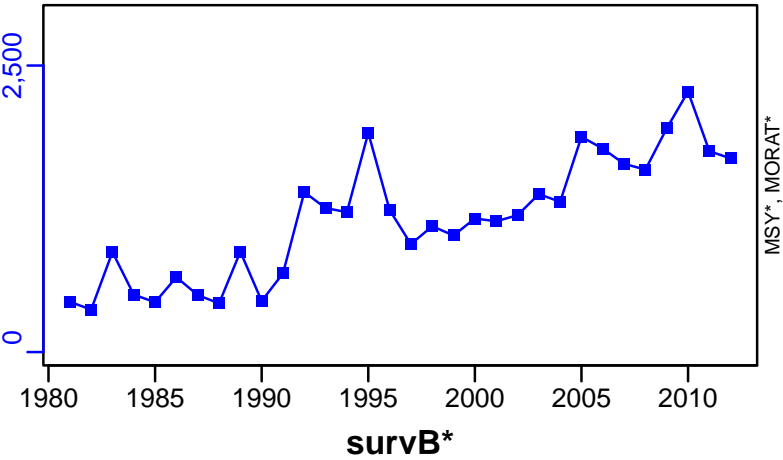


Recruits*



Smooth dogfish Atlantic [SMDOGATL]

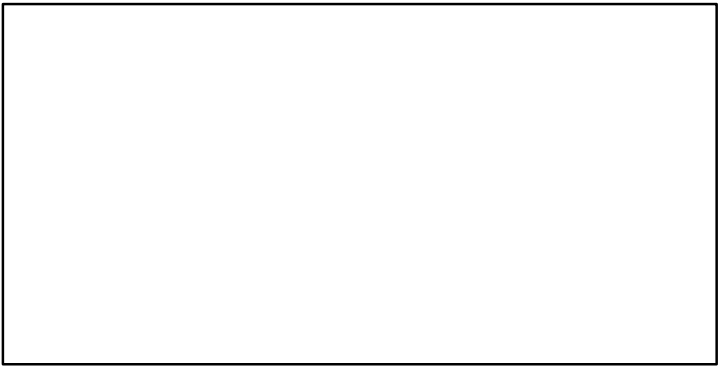
TC-MT, TL*, RecC* (1981-2012-SISIMP2016)



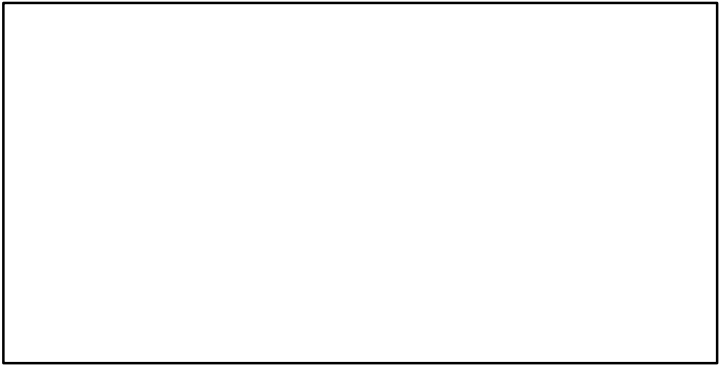
TAC*, Cpair*, Cadv*



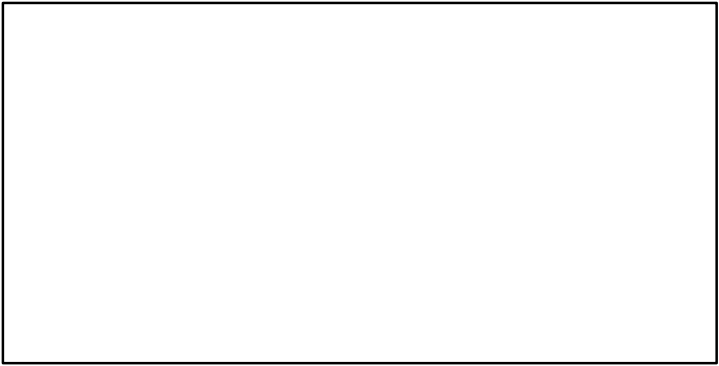
CPUE*



EFFORT*



CdivMSY*



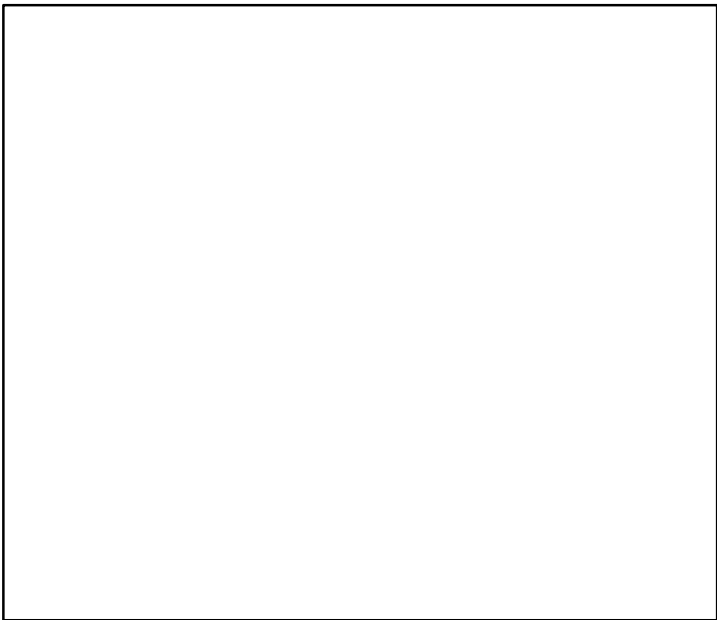
**Smooth skate Gulf of Maine / Georges Bank-Southern New England
[SSKAT5YZSNE]**

Metadata	
Scientific Name	Malacoraja senta
Current Assess ID	NEFSC-SSKAT5YZSNE-1965-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank-Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005, 2018, 2019

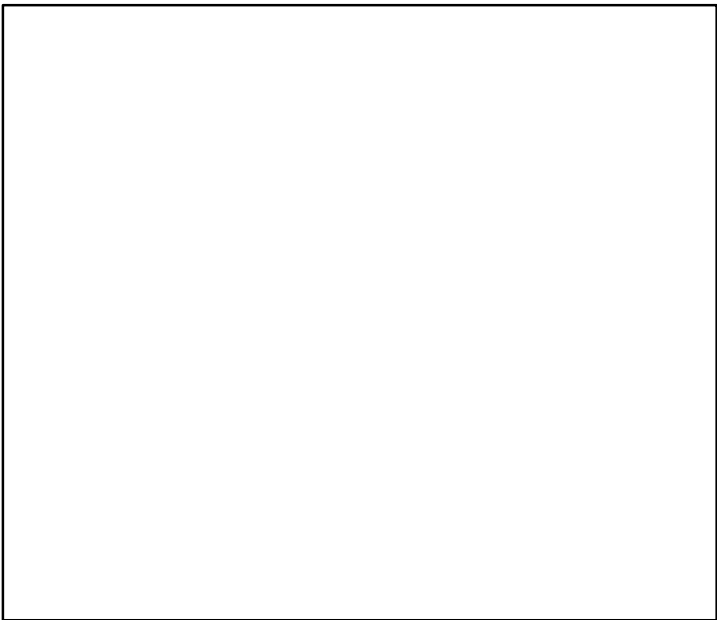
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	339		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

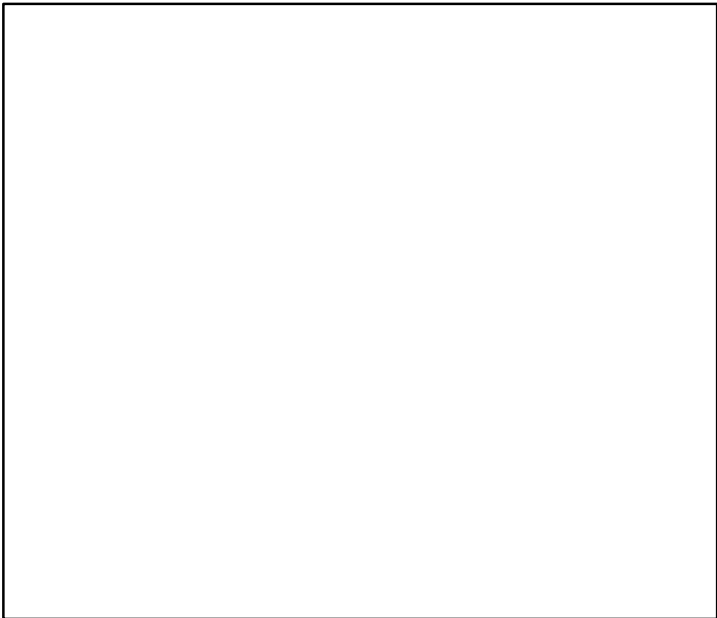
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

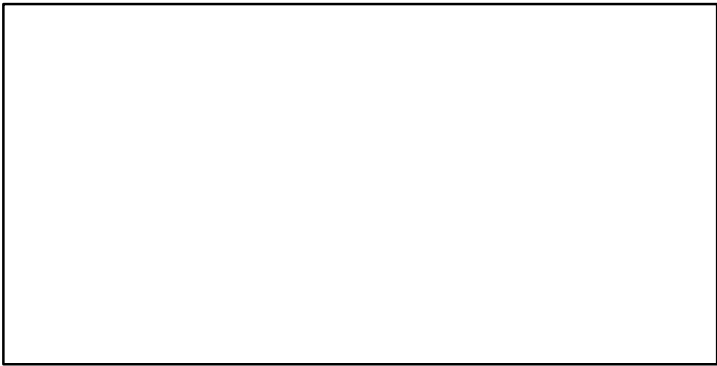
TB*



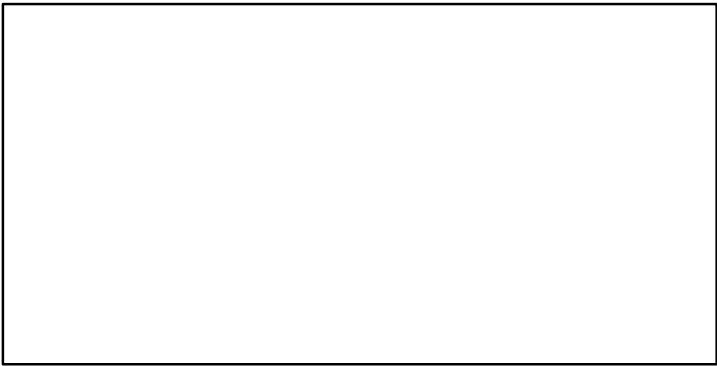
SSB*



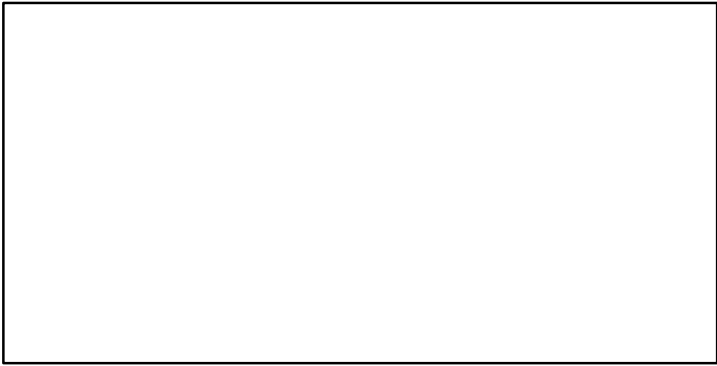
TN *



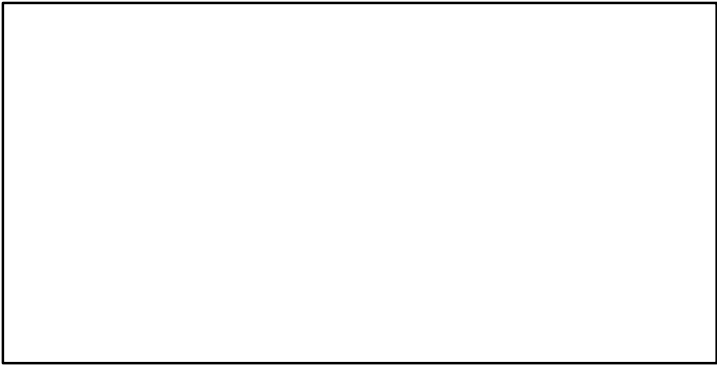
F*



ER*



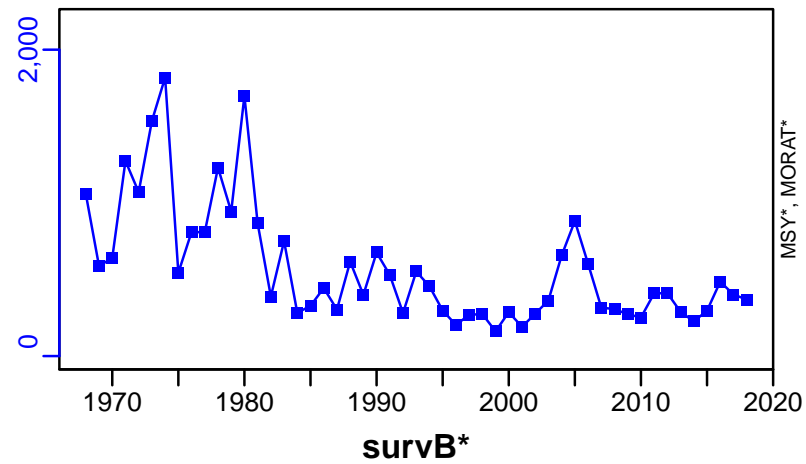
Recruits*



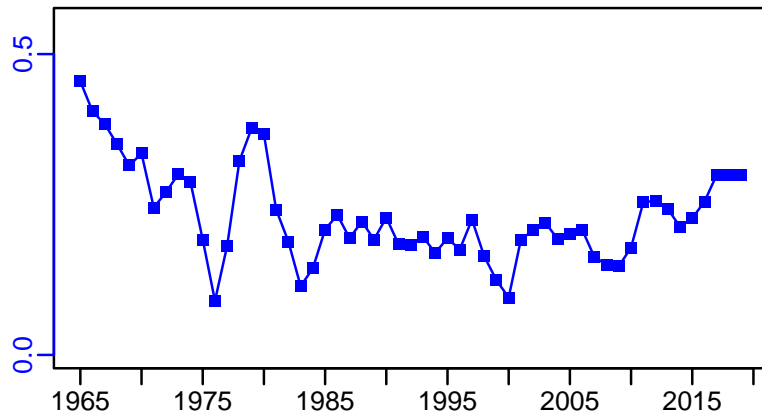
Smooth skate Gulf of Maine / Georges Bank–Southern New England [SSKAT5YZSNE]

TC–MT, TL*, RecC* (1965–2019–SISIMP2021–2)

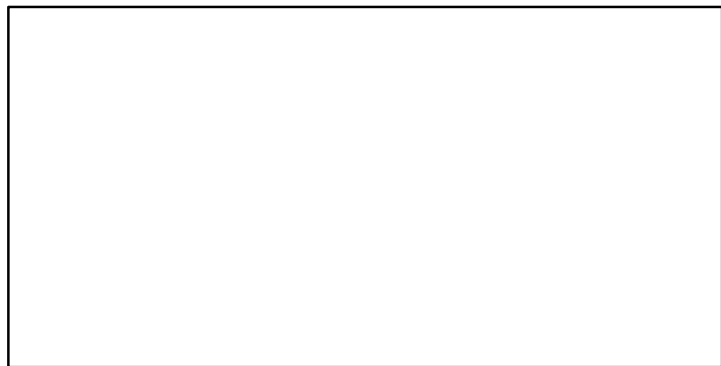
TAC*, Cpair*, Cadv*



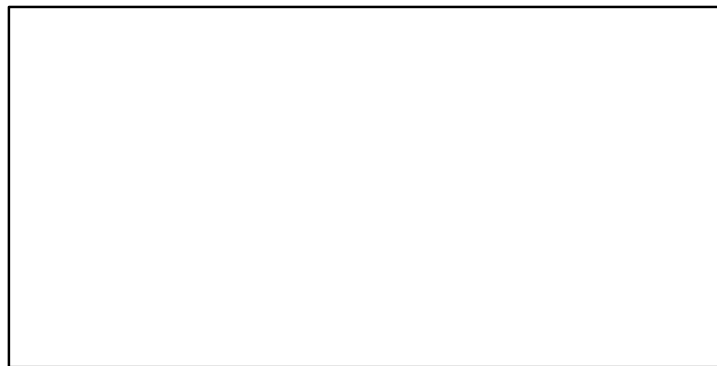
CPUE–index (1965–2019–SISIMP2021–2)



EFFORT*



CdivMSY*



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

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

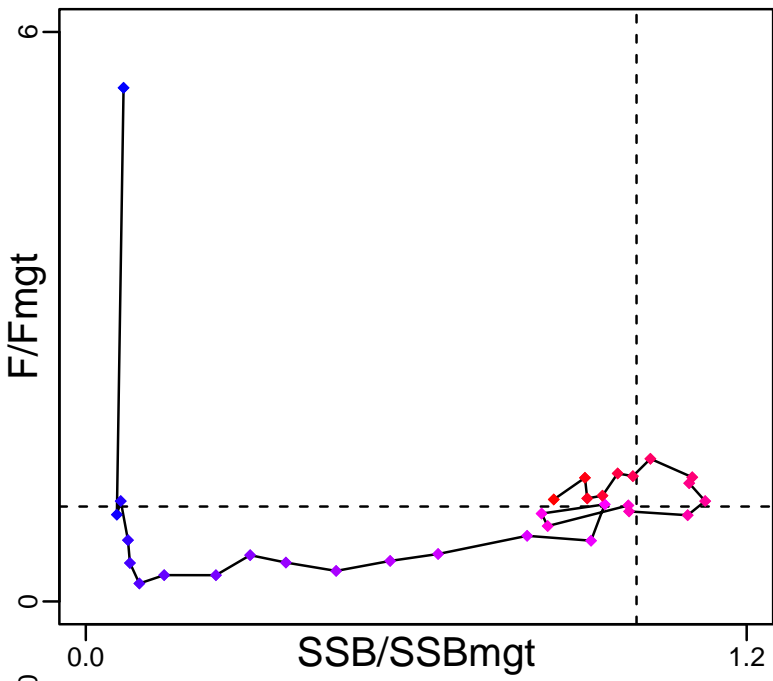
Metadata	
Scientific Name	Morone saxatilis
Current Assess ID	NEFSC-STRIPEDBASSGOMCHATT-1981-2012-HIVELY
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2012	72,380
Fmgt	Fmgt-1/yr	2012	0.175
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

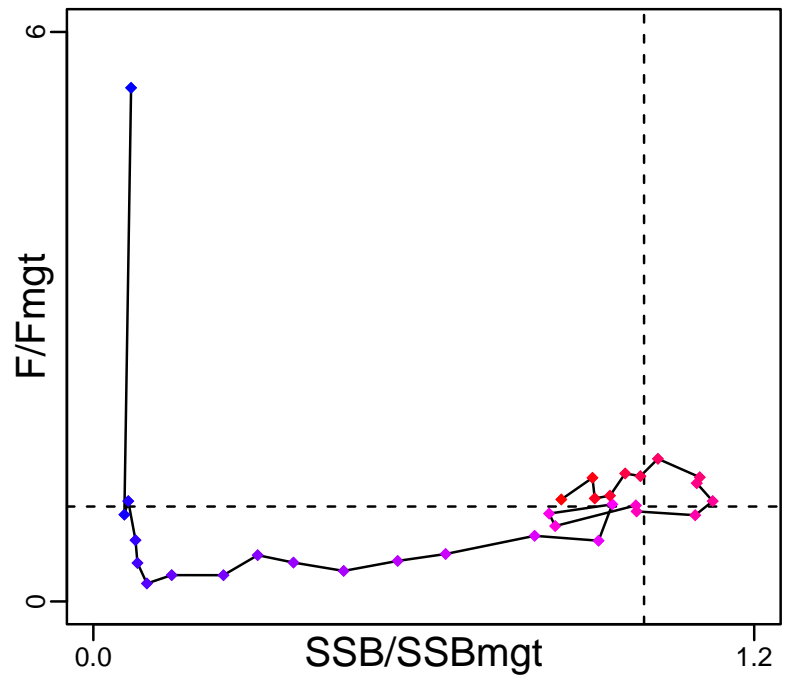
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	61,500	Females	4+
TN	TN-E00	2012	2.15×10^8	-	-
R	R-E00	2012	1.44×10^8	-	1
F	F-1/yr	2012	0.188	-	-
ER	ER-calc-ratio	2012	0.017	-	-
TC	TC-E00	2012	3,600,000		
TL	TL-MT	2012	3080		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2012	0.85		
F/Fmgt	F-1/yr/Fmgt-1/yr	2012	1.074		
ER/ERmgt	-	-	-		

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

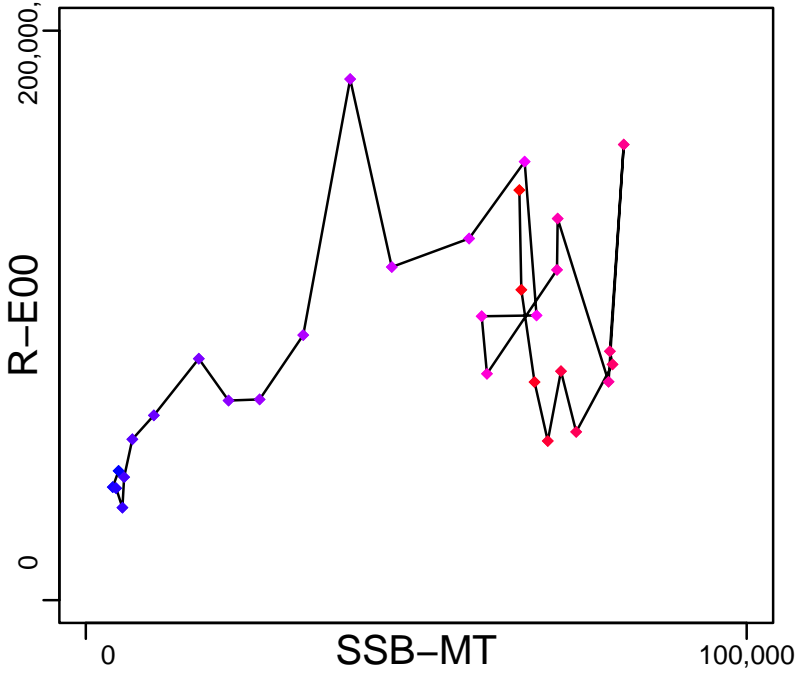
Kobe MSYpref (1981–2012–HIVELY)



Kobe MGTpref (1981–2012–HIVELY)



Spawner Recruit (1981–2012–HIVELY)



Production*



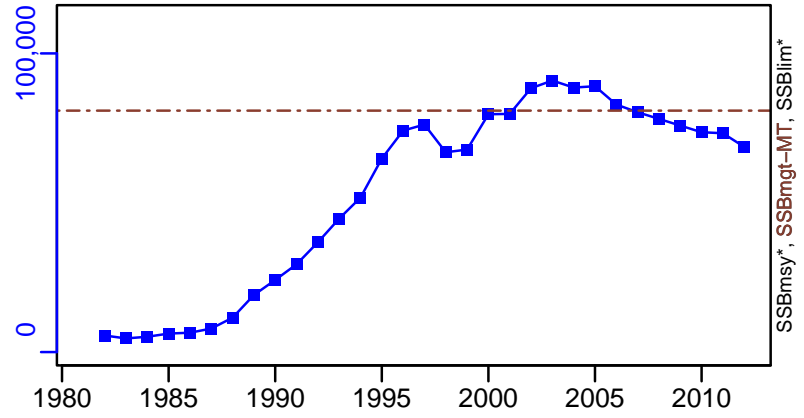
◆ Start Year ◆ End Year * No Data

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

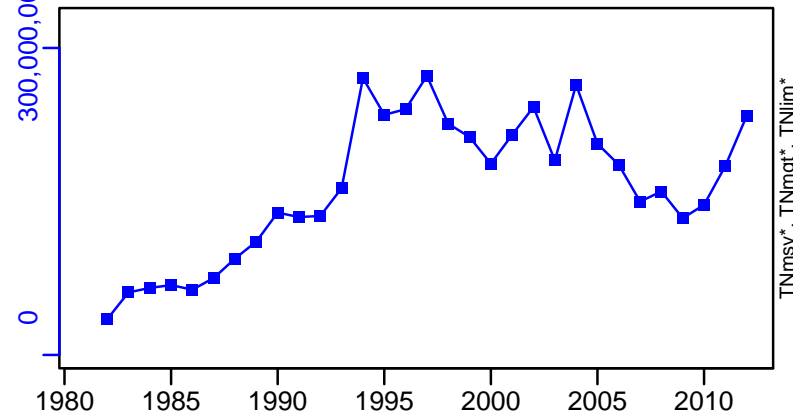
TB*



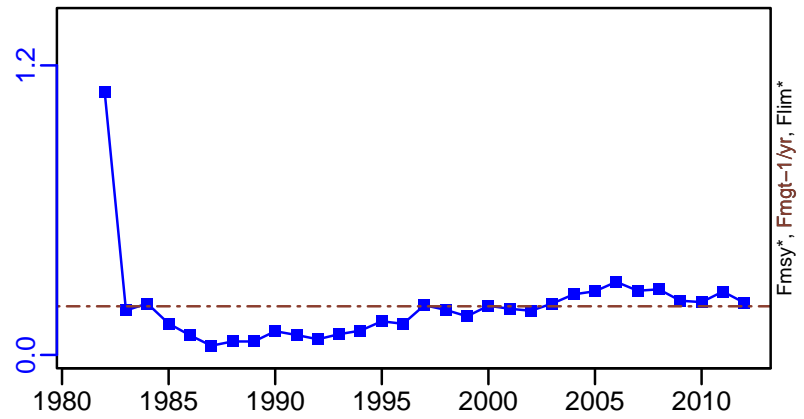
SSB-MT (1981-2012-HIVELY)



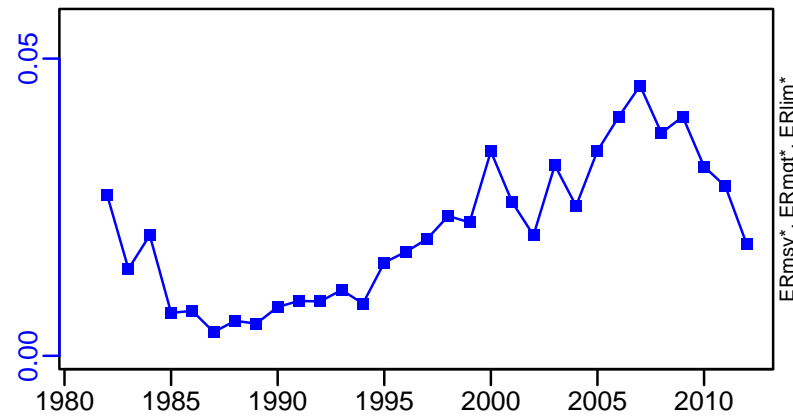
TN-E00 (1981-2012-HIVELY)



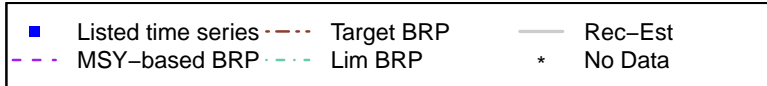
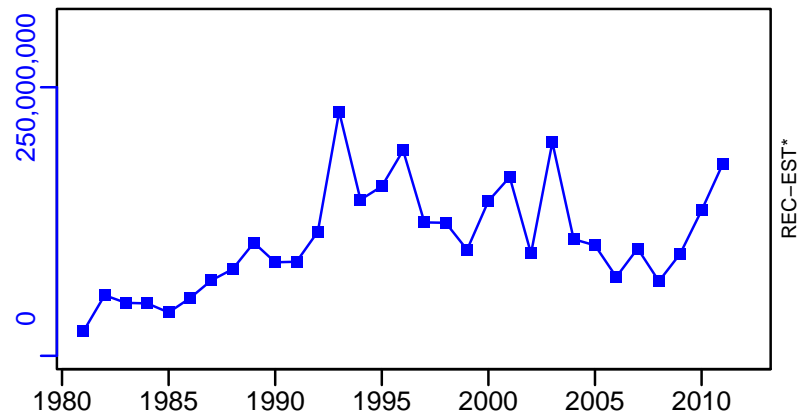
F-1/yr (1981-2012-HIVELY)



ER-calc-ratio (1981-2012-HIVELY)



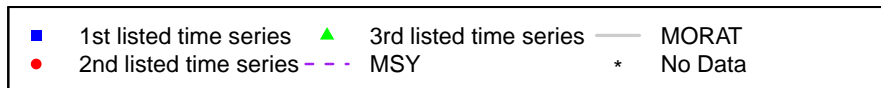
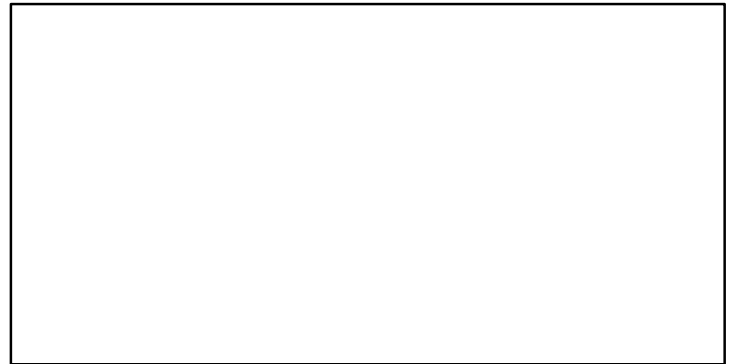
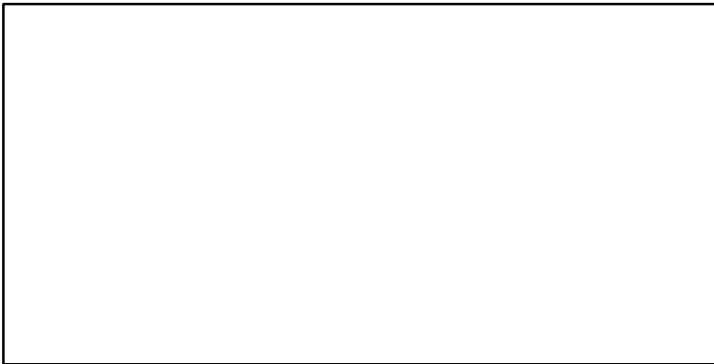
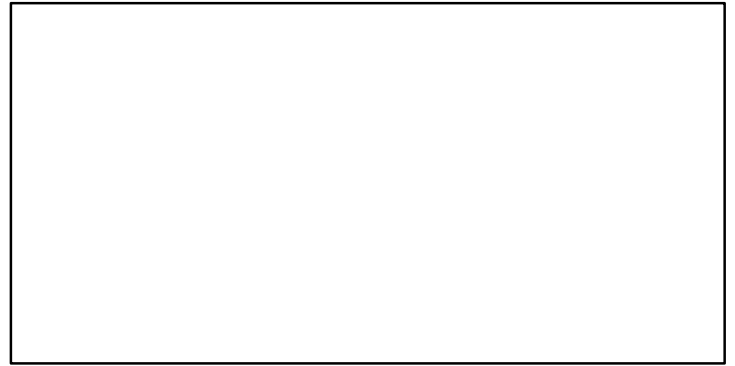
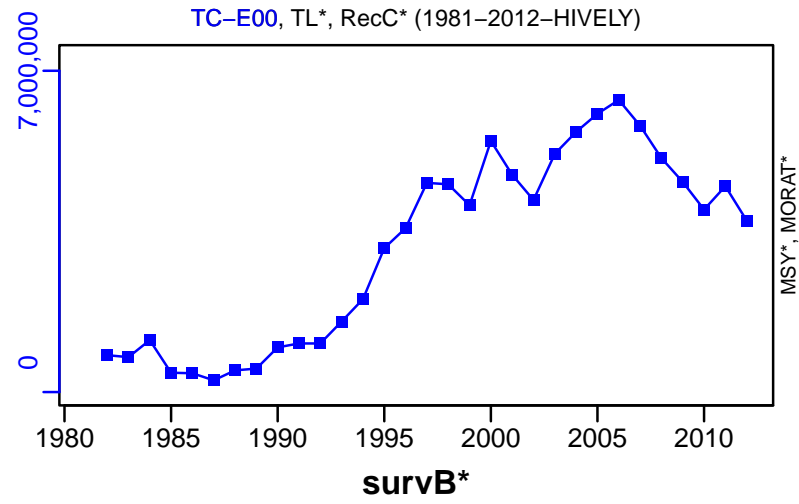
R-E00 (1981-2012-HIVELY)



Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

TC-E00, TL*, RecC* (1981–2012–HIVELY)

TAC*, Cpair*, Cadv*



Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

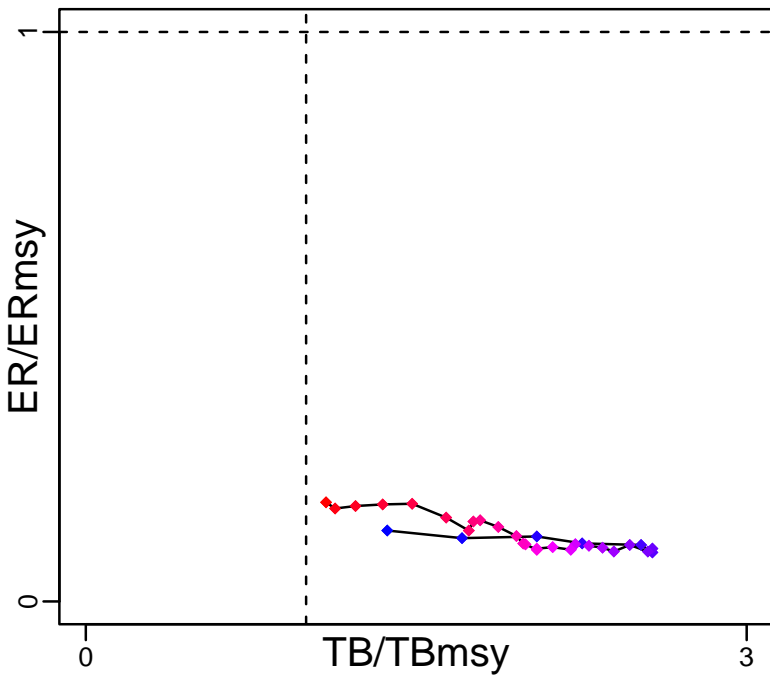
Metadata	
Scientific Name	Spisula solidissima
Current Assess ID	NEFSC-SURFMATLC-1965-2015-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2015, 2011

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

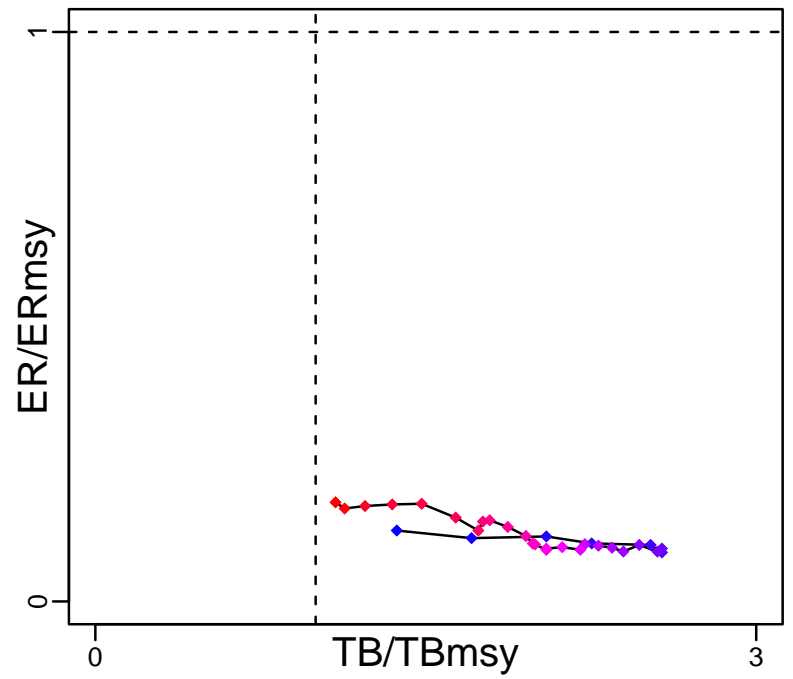
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	1,060,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2011	2,090,000	-	-
F	F-1/yr	2011	0.027	-	-
ER	ER-calc-ratio	2011	0.018	-	-
TC	TC-MT	2015	18,284		
TL	TL-MT	2008	22,500		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.091		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

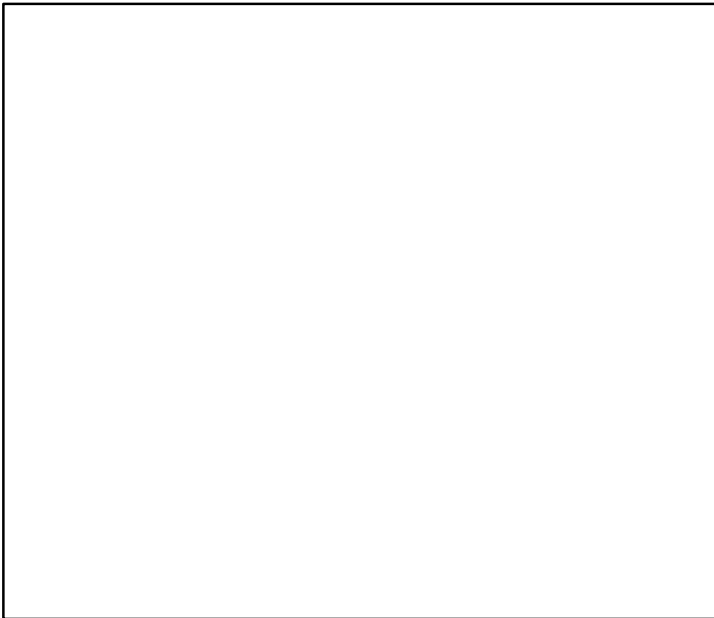
Kobe MSY_{pref} (1982–2011–SISIMP2016)



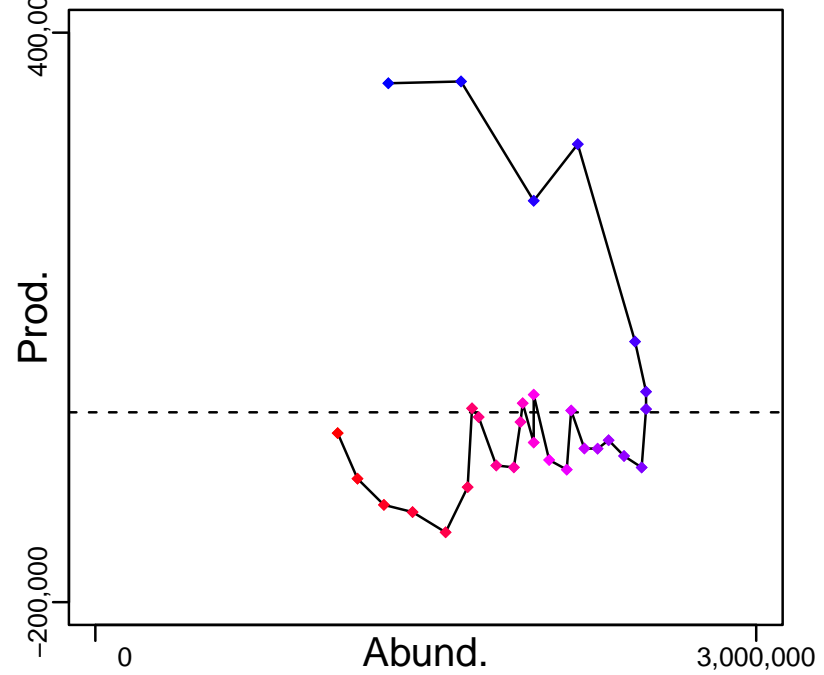
Kobe MGT_{pref} (1982–2011–SISIMP2016)



Spawner Recruit*



Production (1982–2011–SISIMP2016)

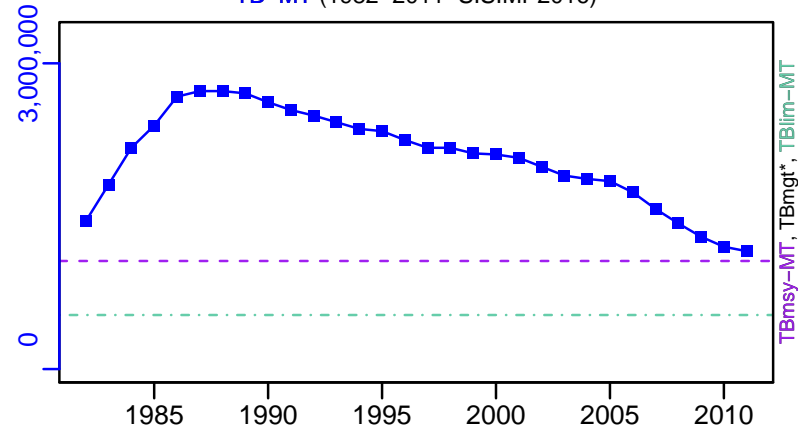


◆ Start Year ◆ End Year * No Data

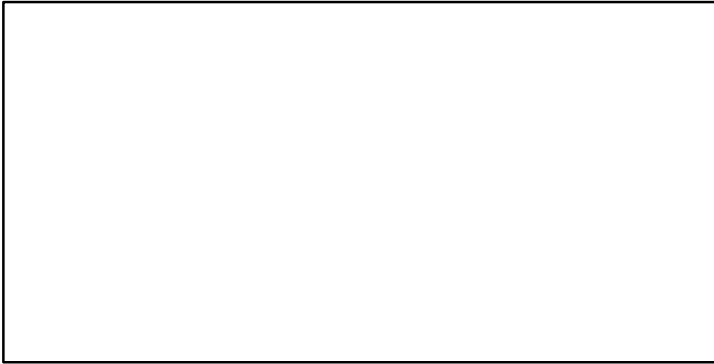
Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

TB-MT (1982-2011-SISIMP2016)

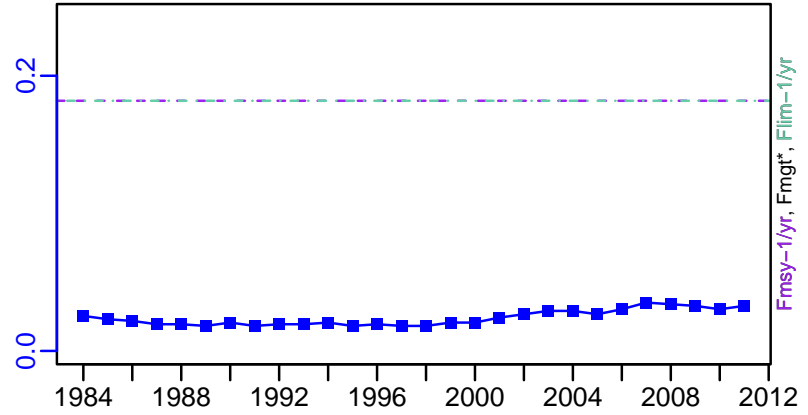
SSB*



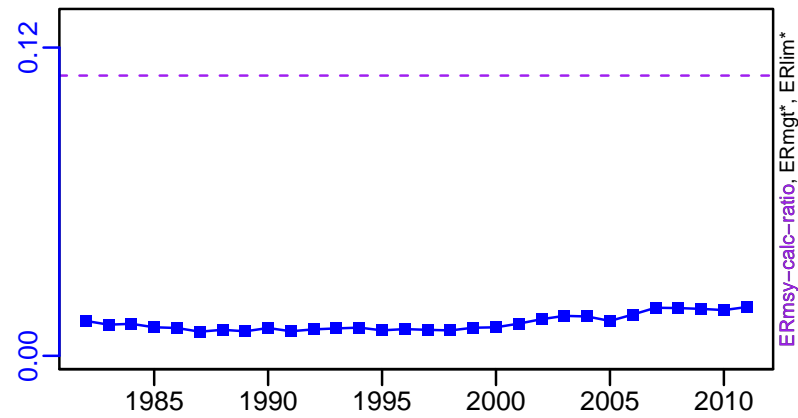
TN *



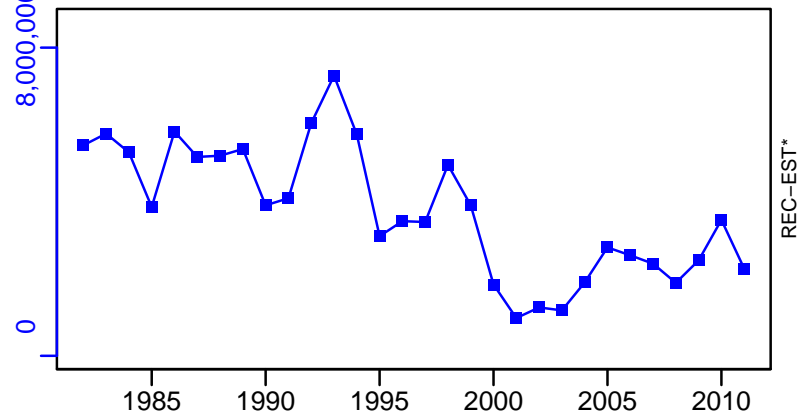
F-1/yr (1982-2011-SISIMP2016)



ER-calc-ratio (1982-2011-SISIMP2016)

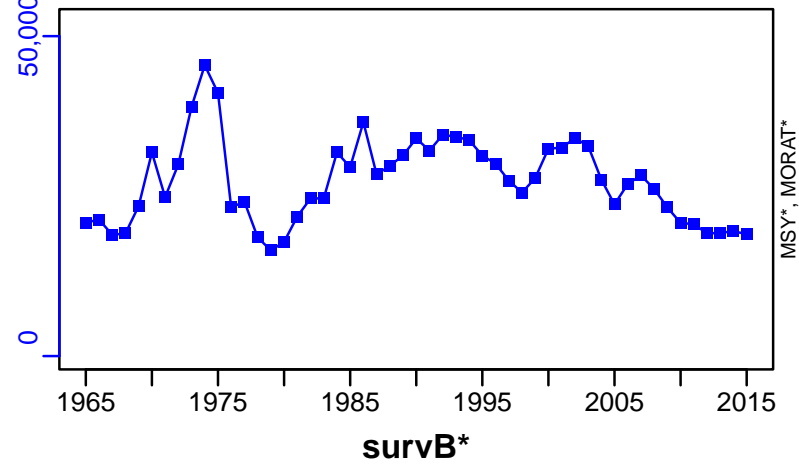


R-MT (1982-2011-SISIMP2016)



Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

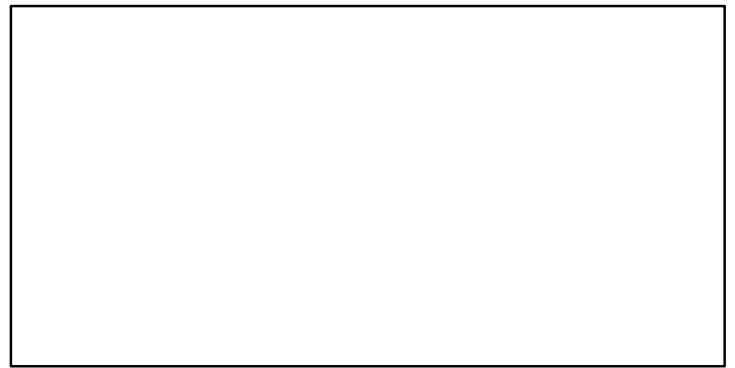
TC-MT, TL*, RecC* (1965-2015-SISIMP2021)



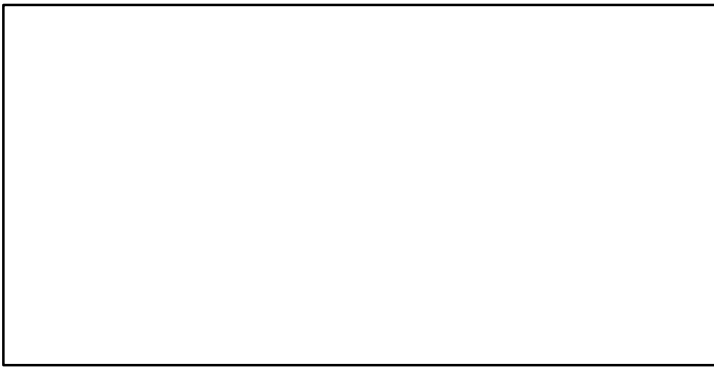
TAC*, Cpair*, Cadv*



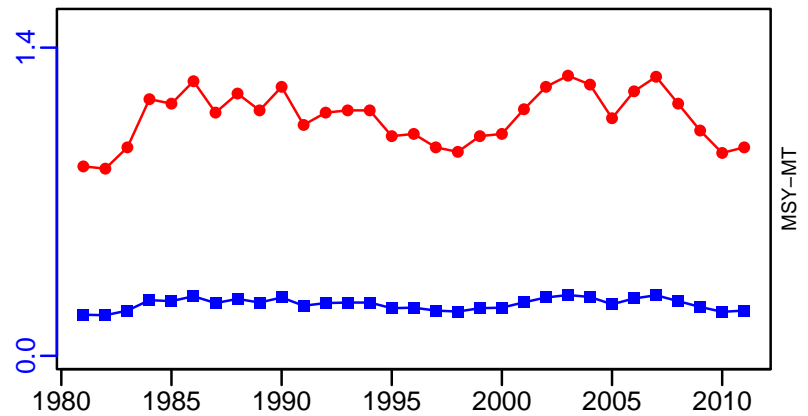
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2011-SISIMP2016)



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

Tilefish Mid-Atlantic Coast [TILEMATLC]

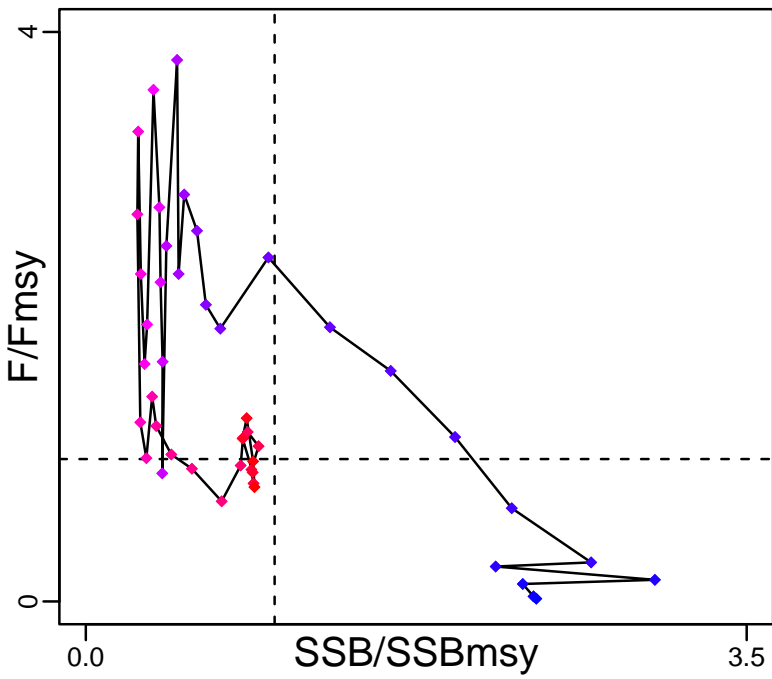
Metadata	
Scientific Name	Lopholatilus chamaeleonticeps
Current Assess ID	NEFSC-TILEMATLC-1970-2016-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	9492
Fmsy	Fmsy-1/yr	2016	0.31
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2012	1029
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	4746
Flim	Flim-1/yr	2016	0.31
ERlim	-	-	-

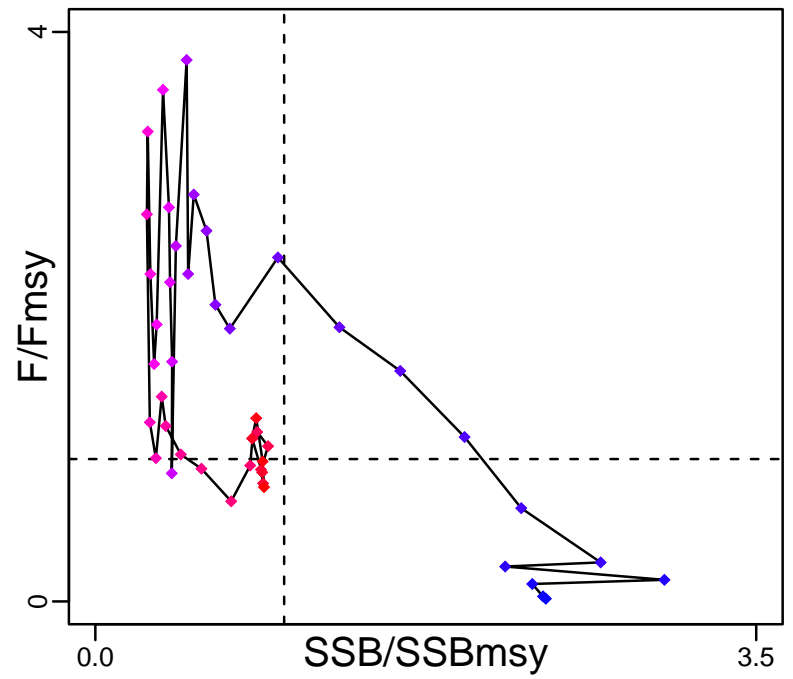
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	8479	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,184,000	-	1
F	F-1/yr	2016	0.249	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	502		
TL	TL-MT	2012	834		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.893		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.803		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Tilefish Mid-Atlantic Coast [TILEMATLC]

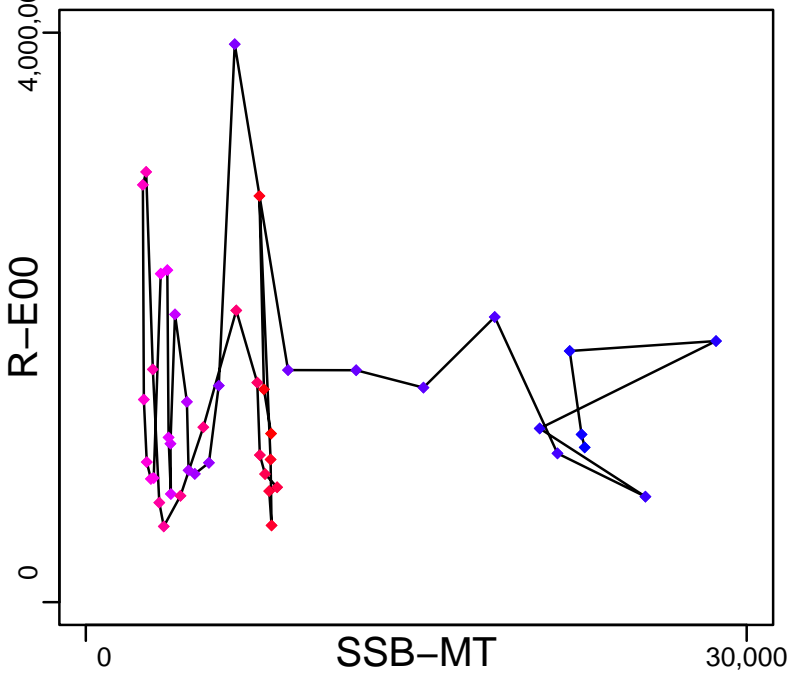
Kobe MSYpref (1970–2016–SISIMP2021)



Kobe MGTpref (1970–2016–SISIMP2021)



Spawner Recruit (1970–2016–SISIMP2021)



Production*



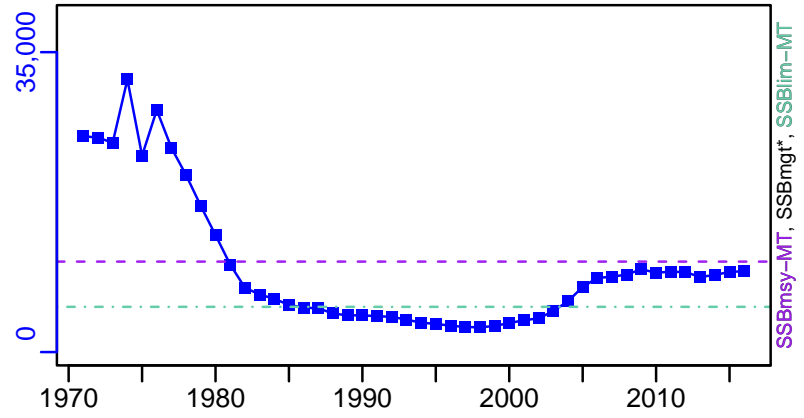
◆ Start Year ◆ End Year * No Data

Tilefish Mid-Atlantic Coast [TILEMATLC]

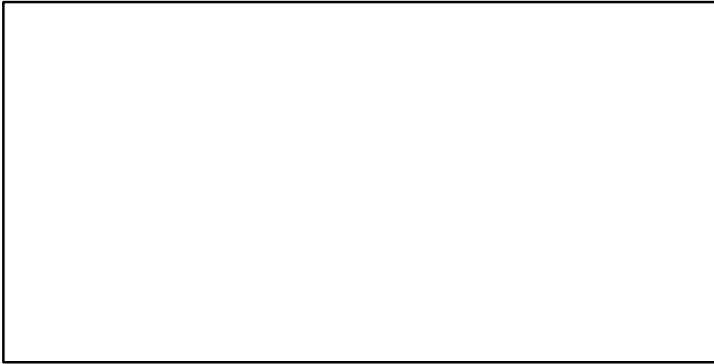
TB*



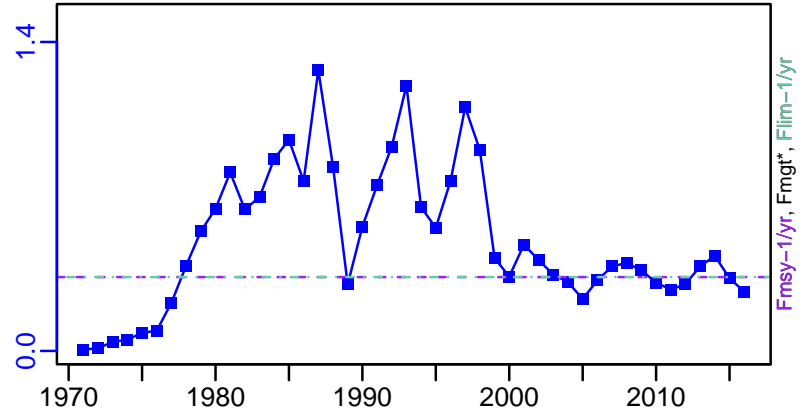
SSB-MT (1970-2016-SISIMP2021)



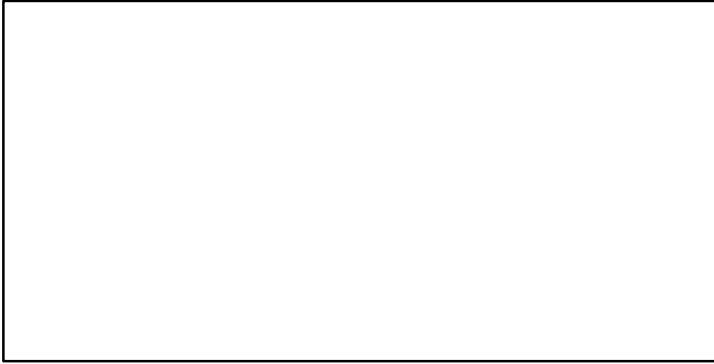
TN *



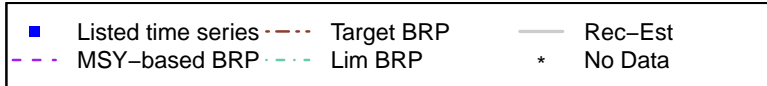
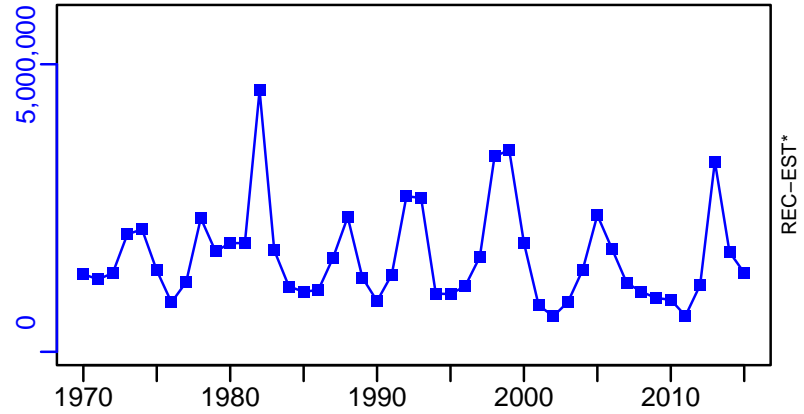
F-1/yr (1970-2016-SISIMP2021)



ER*



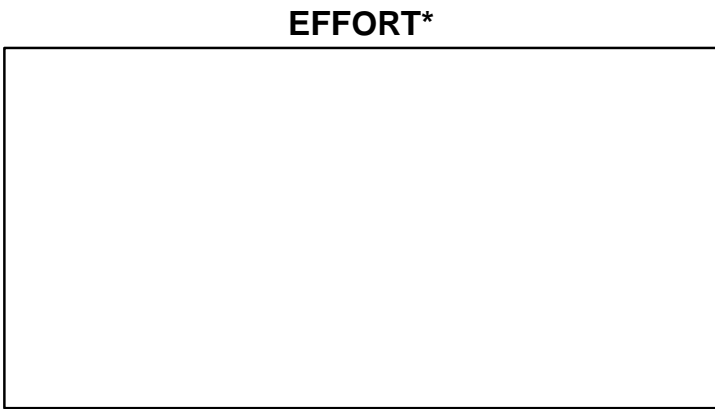
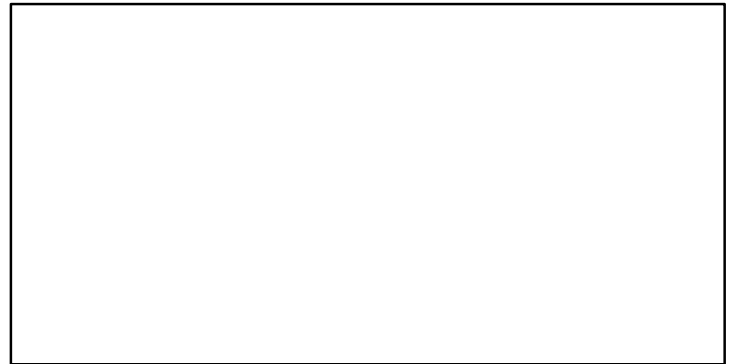
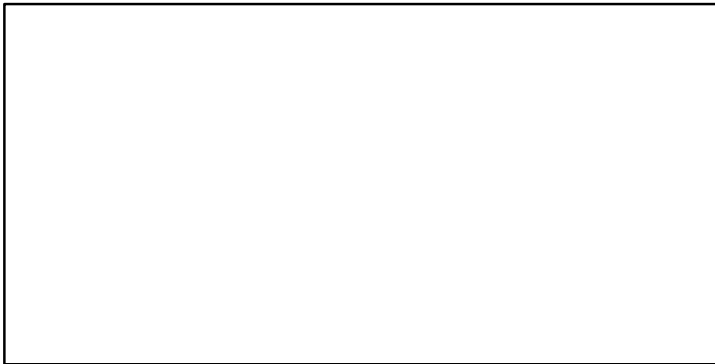
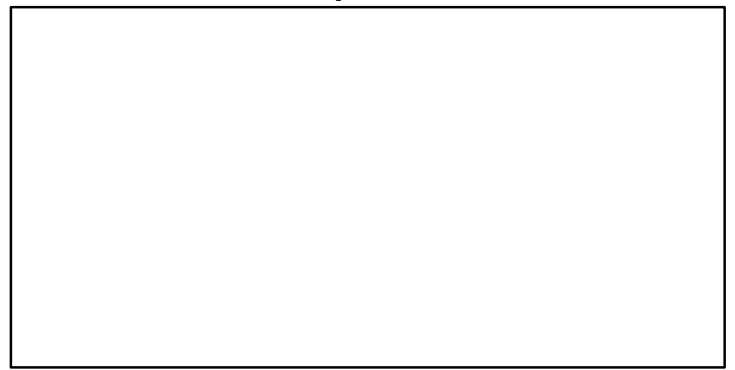
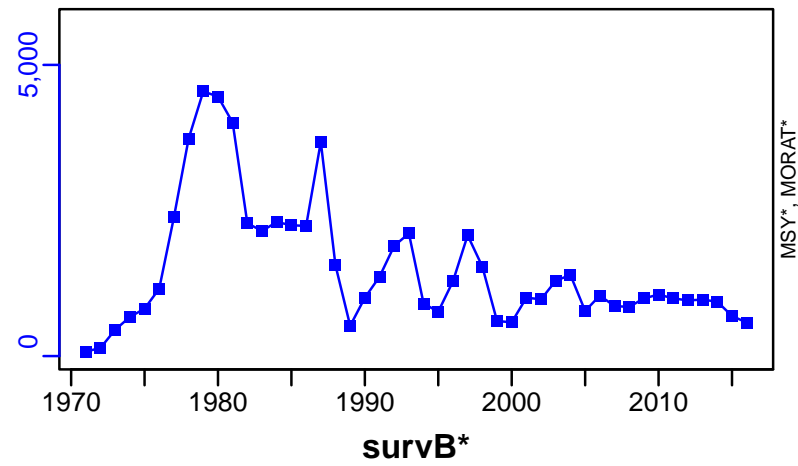
R-E00 (1970-2016-SISIMP2021)



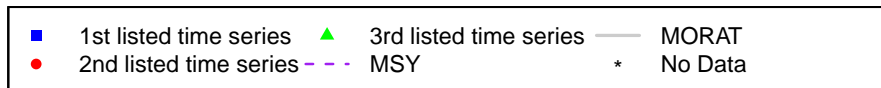
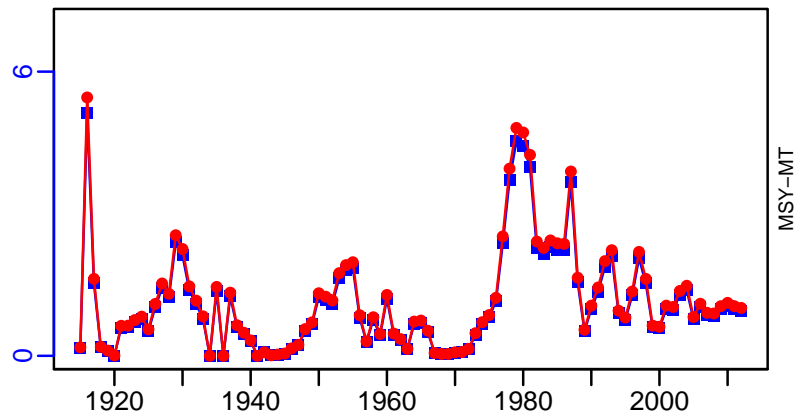
Tilefish Mid-Atlantic Coast [TILEMATLC]

TC-MT, TL*, RecC* (1970-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



TL-MT/MSY-MT, CdivMEANC-ratio, (1915-2012-HIVELY)



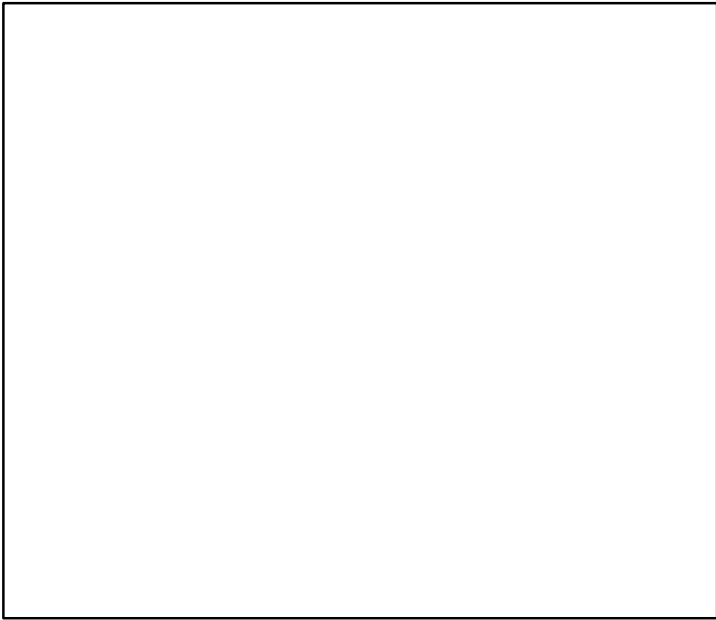
**Thorny skate Gulf of Maine / Georges Bank-Southern New England
[TSKAT5YZSNE]**

Metadata	
Scientific Name	Amblyraja radiata
Current Assess ID	NEFSC-TSKAT5YZSNE-1965-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank-Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005, 2018, 2019

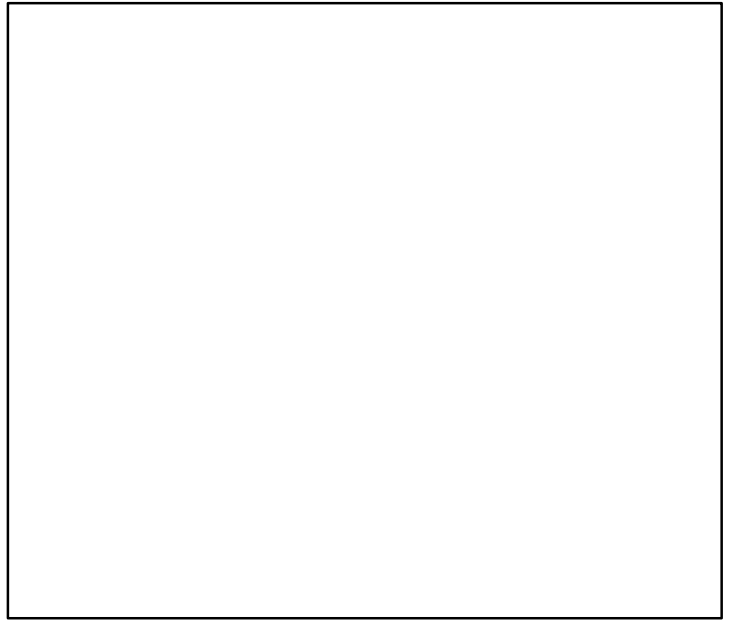
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	167		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

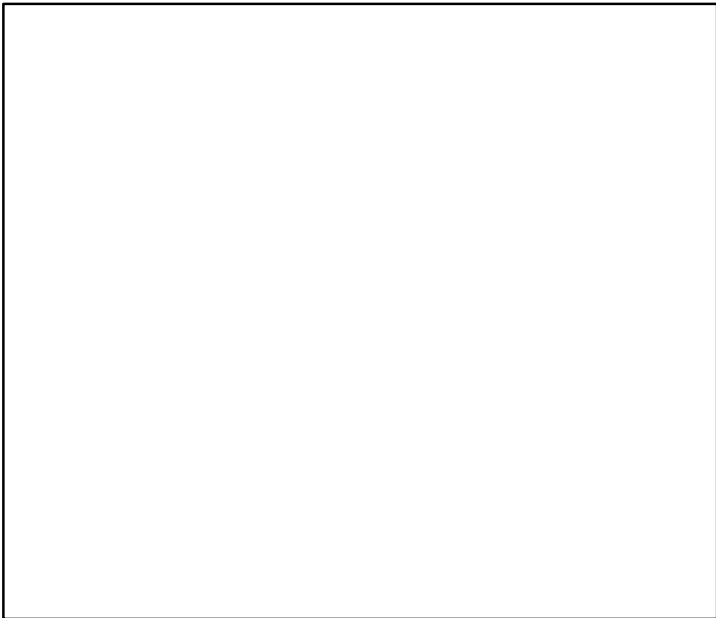
Kobe MSY*



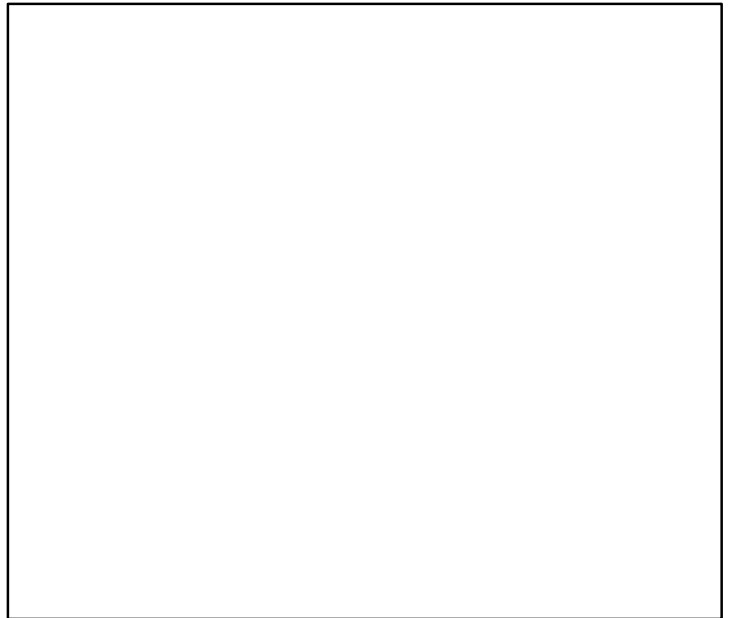
Kobe MGT*



Spawner Recruit*



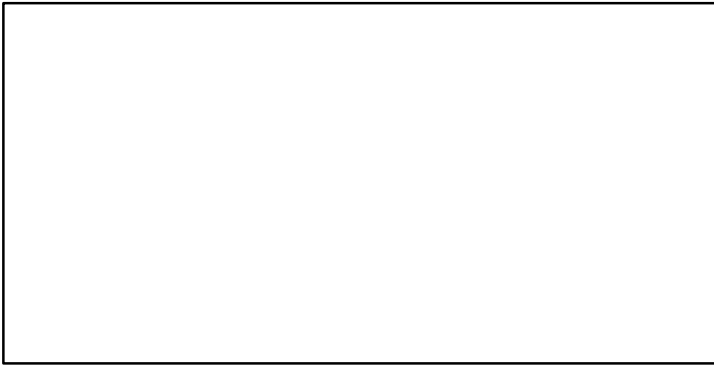
Production*



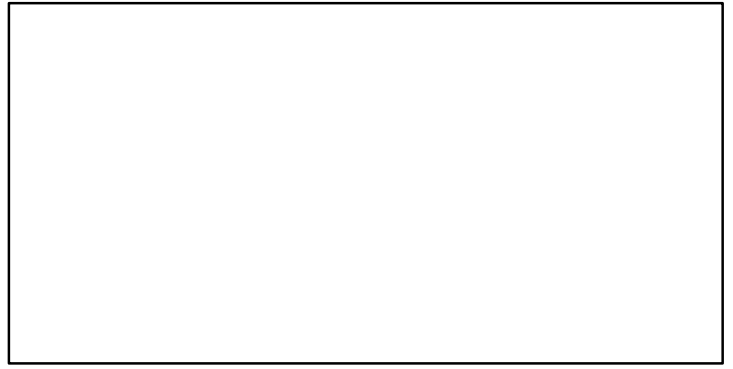
◆ Start Year ◆ End Year * No Data

Thorny skate Gulf of Maine / Georges Bank–Southern New England [TSKAT5YZSNE]

TB*



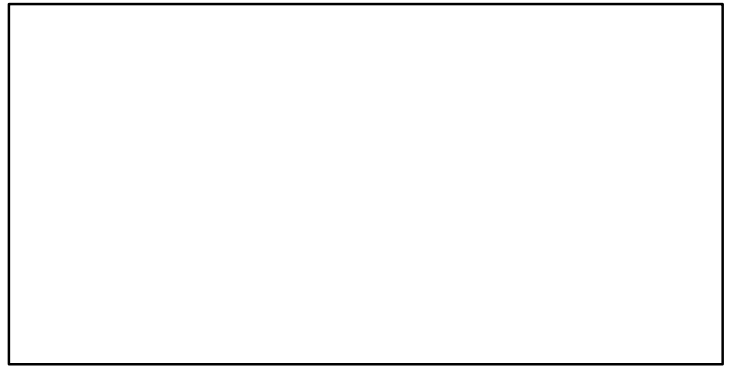
SSB*



TN *



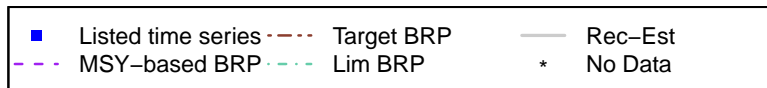
F*



ER*



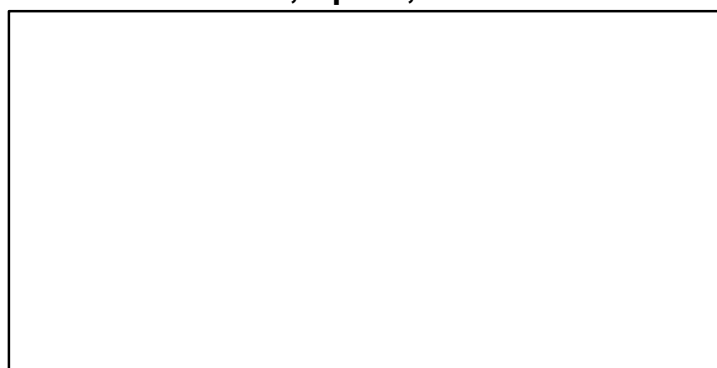
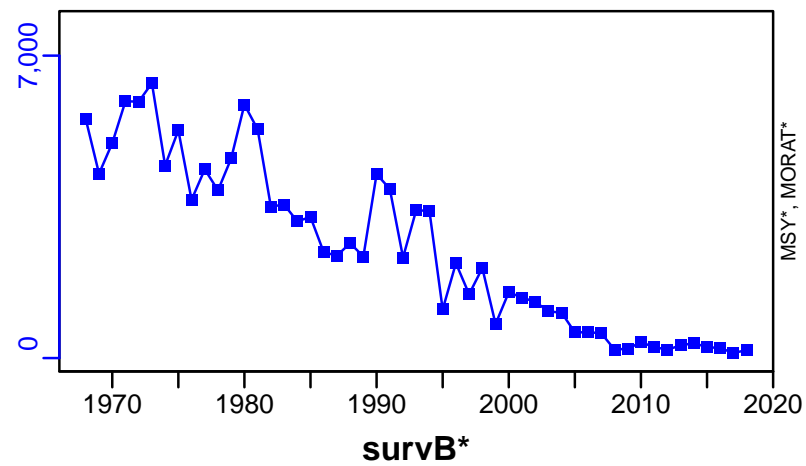
Recruits*



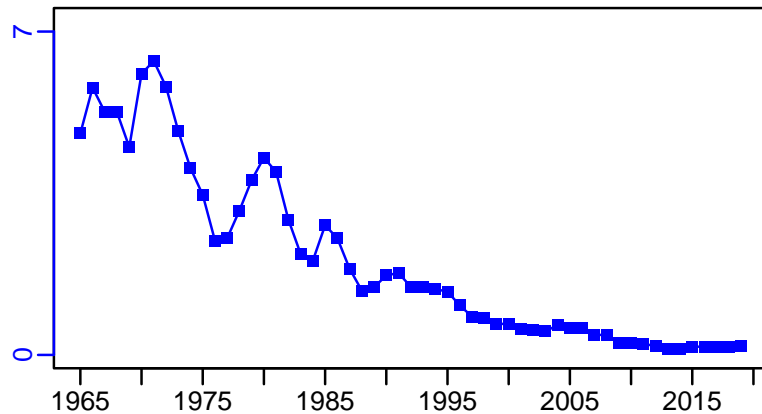
Thorny skate Gulf of Maine / Georges Bank–Southern New England [TSKAT5YZSNE]

TC–MT, TL*, RecC* (1965–2019–SISIMP2021–2)

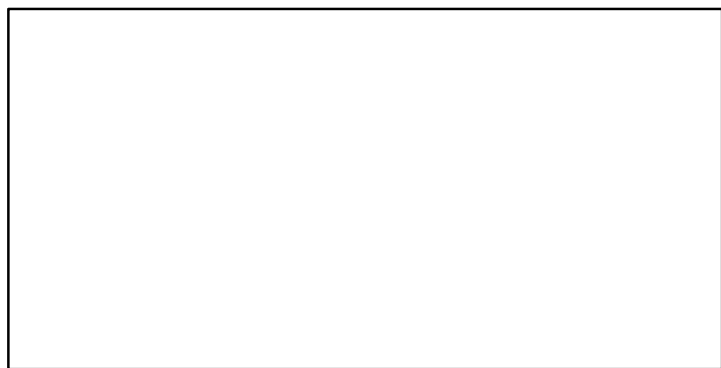
TAC*, Cpair*, Cadv*



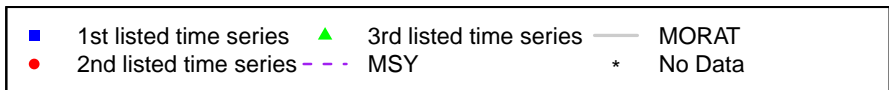
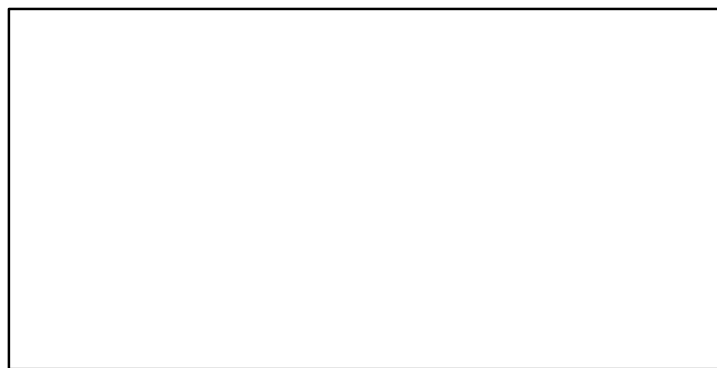
CPUE–index (1965–2019–SISIMP2021–2)



EFFORT*



CdivMSY*



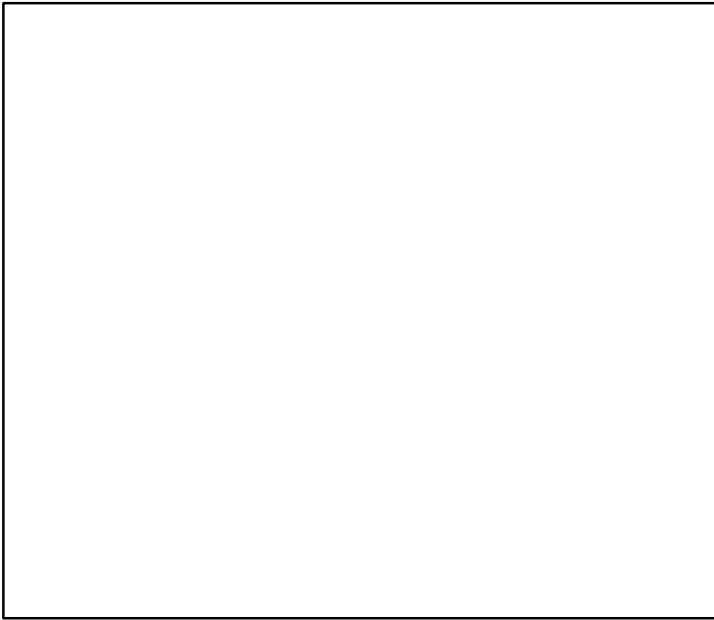
Weakfish Atlantic Coast [WEAKFISHATLC]

Metadata	
Scientific Name	Cynoscion regalis
Current Assess ID	NEFSC-WEAKFISHATLC-1981-2008-STANTON
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008

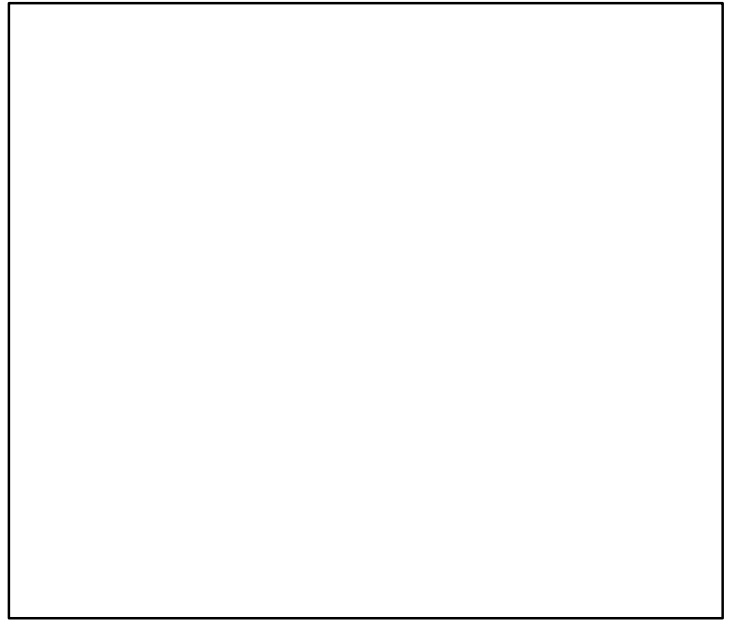
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-pr-MT	2008	10,179
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2008	0.25
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2008	1330	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0.294	-	-
TC	TC-MT	2008	899		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-pr-MT	2008	0.131		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

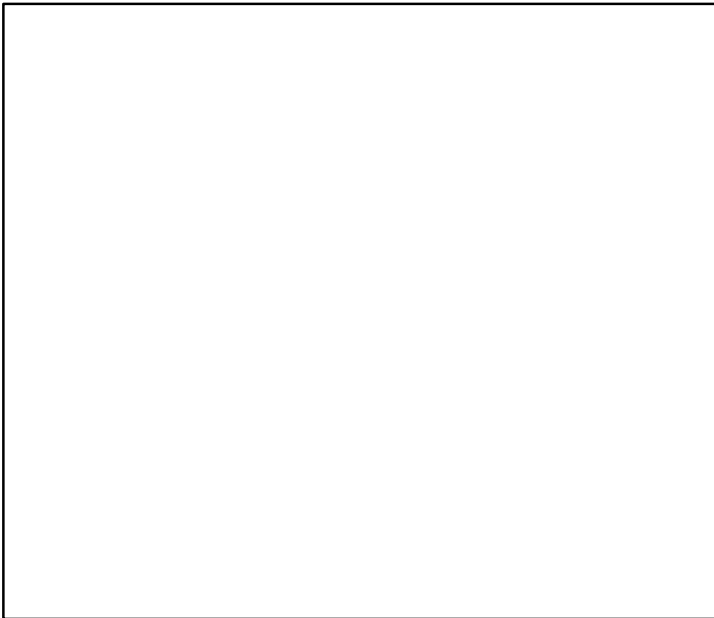
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



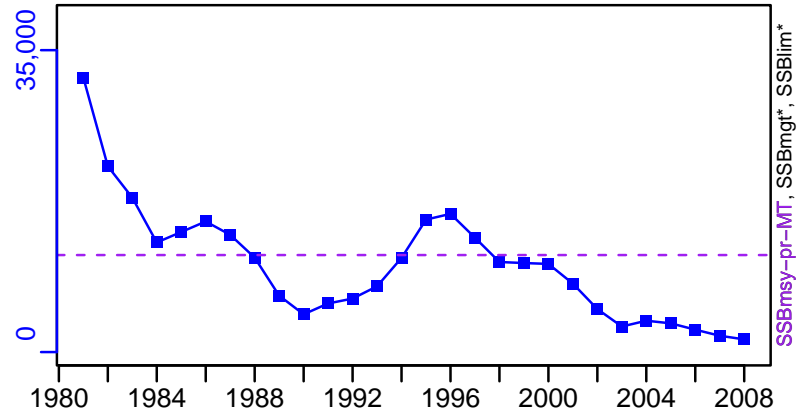
◆ Start Year ◆ End Year * No Data

Weakfish Atlantic Coast [WEAKFISHATLC]

TB*



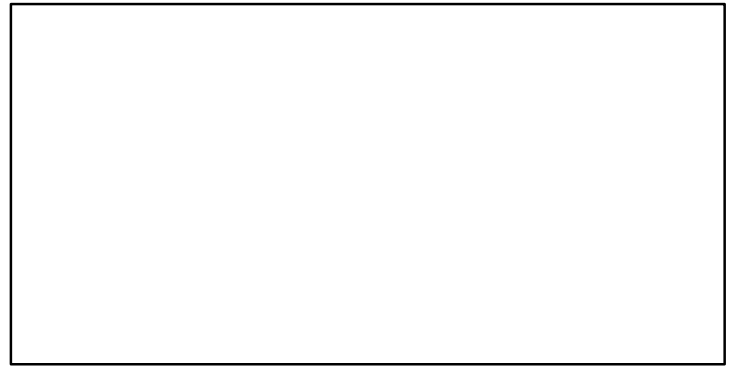
SSB-MT (1981-2008-STANTON)



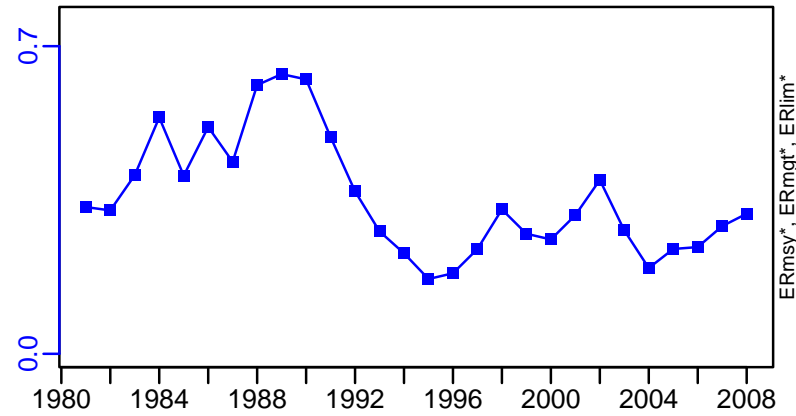
TN *



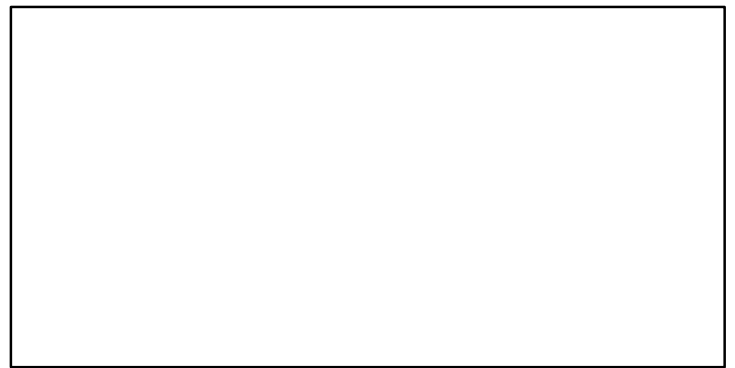
F*



ER-ratio (1981-2008-STANTON)



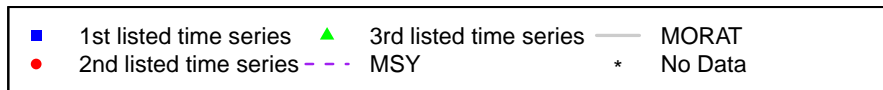
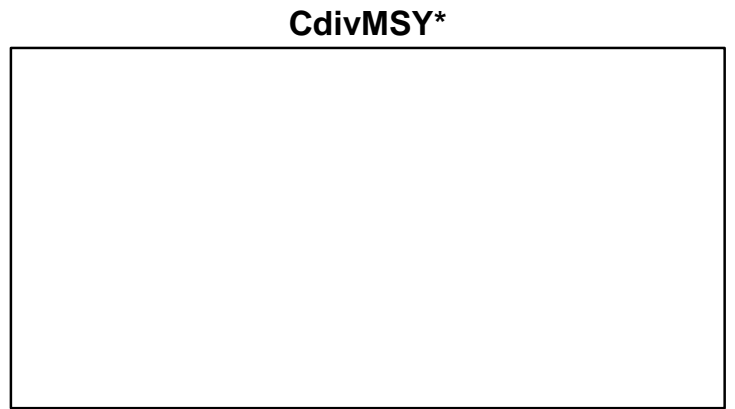
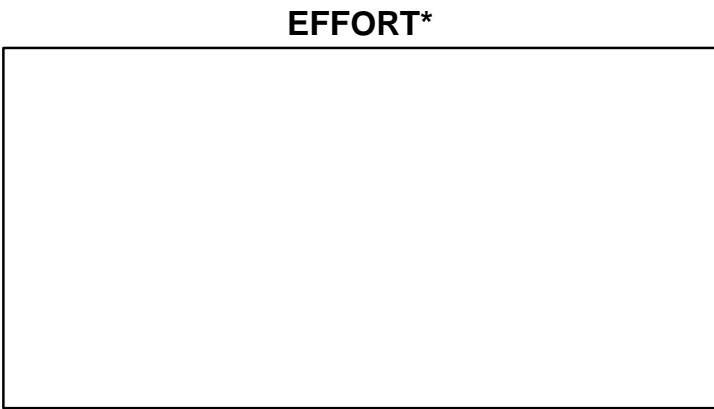
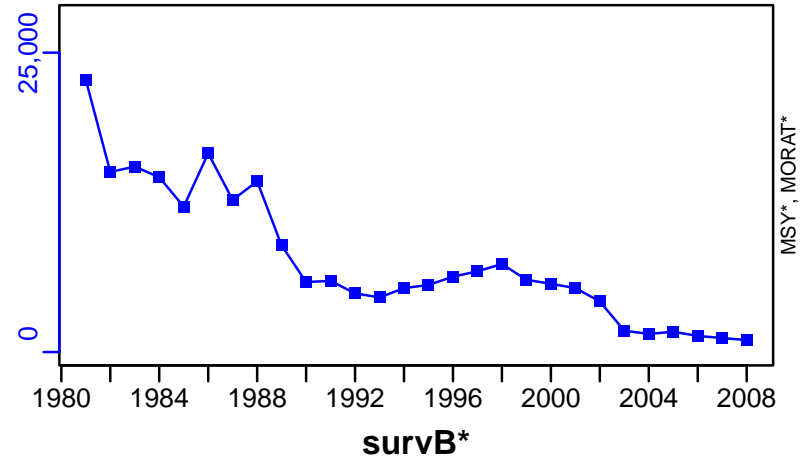
Recruits*



Weakfish Atlantic Coast [WEAKFISHATLC]

TC-MT, TL*, RecC* (1981-2008-STANTON)

TAC*, Cpair*, Cadv*



White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

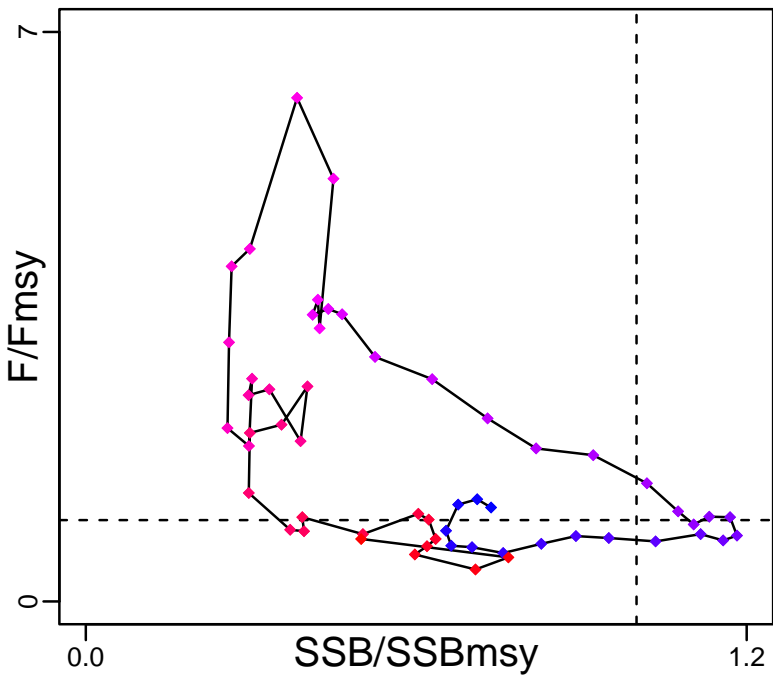
Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	NEFSC-WHAKEGBGOM-1962-2018-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2018, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	31,800
Fmsy	Fmsy-1/yr	2018	0.168
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	4600
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	15,900
Flim	Flim-1/yr	2018	0.168
ERlim	-	-	-

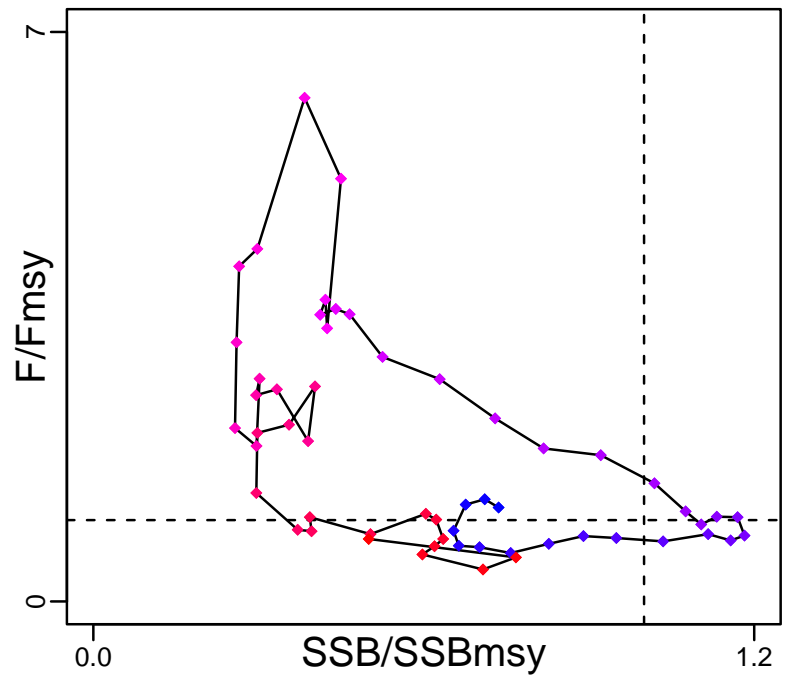
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	31,200	-	-
SSB	SSB-MT	2018	15,900	-	-
TN	-	-	-	-	-
R	R-E00	2018	4,040,000	-	1
F	F-1/yr	2018	0.129	-	-
ER	ER-calc-ratio	2011	0.093	-	-
TC	TC-MT	2018	2010		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.5		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.768		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

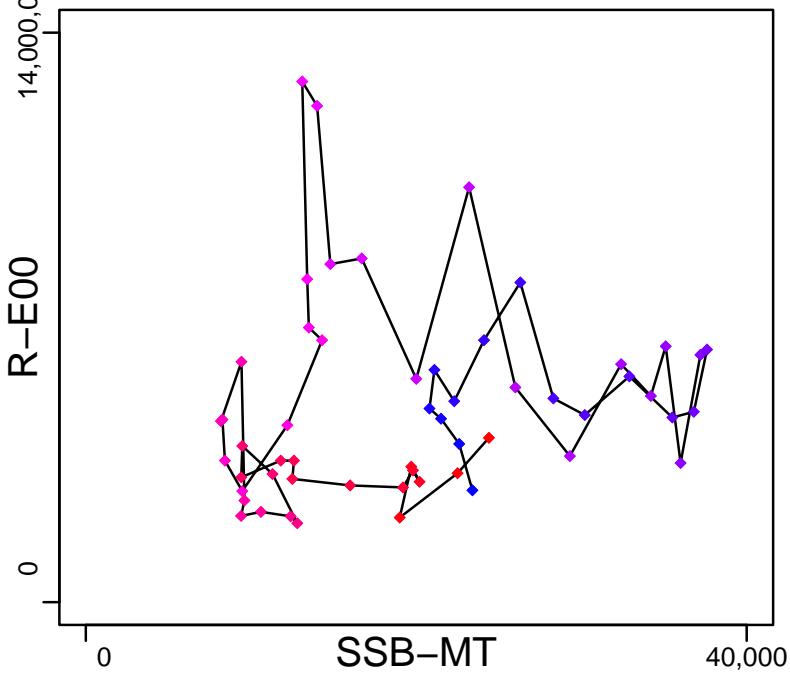
Kobe MSYpref (1962–2018–SISIMP2021–2)



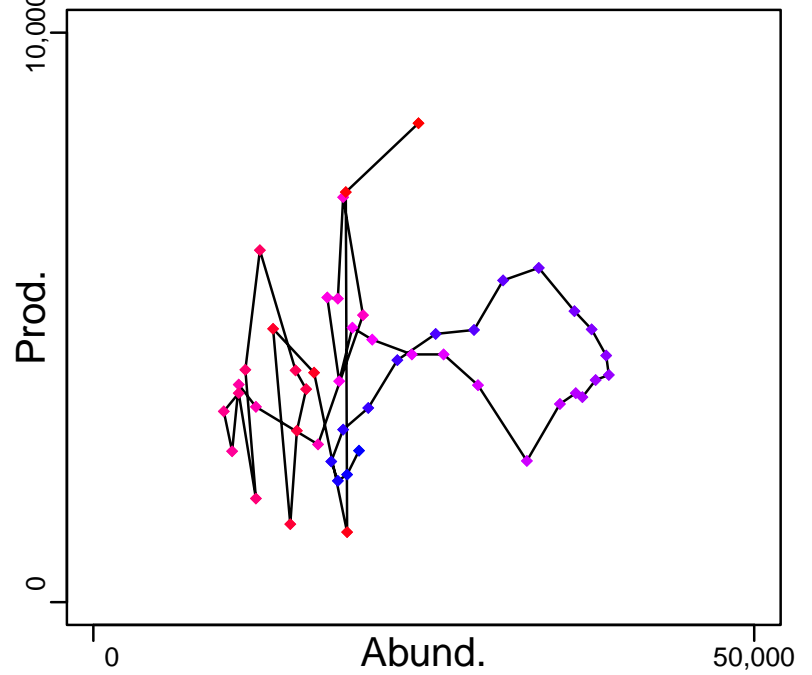
Kobe MGTpref (1962–2018–SISIMP2021–2)



Spawner Recruit (1962–2018–SISIMP2021–2)



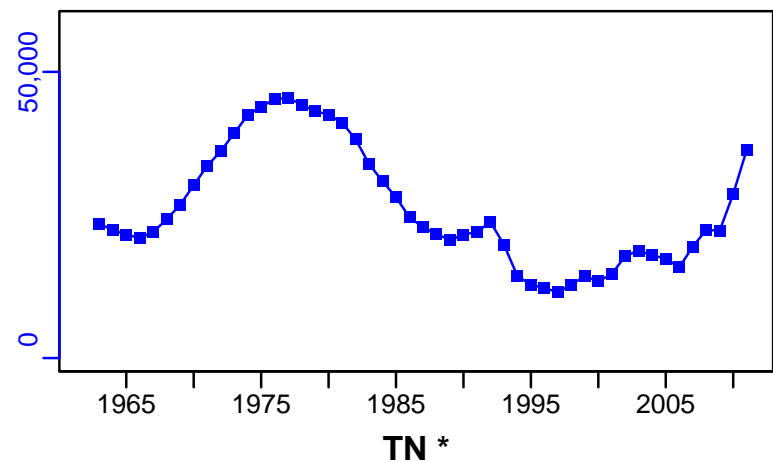
Production (1962–2011–HIVELY)



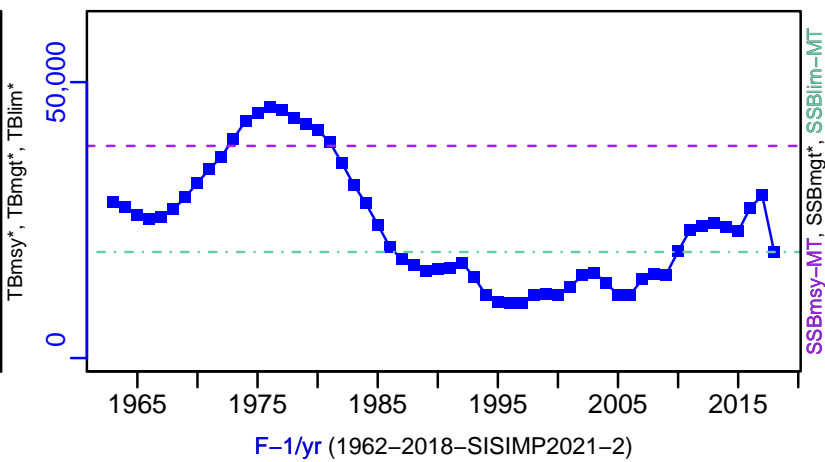
◆ Start Year ◆ End Year * No Data

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

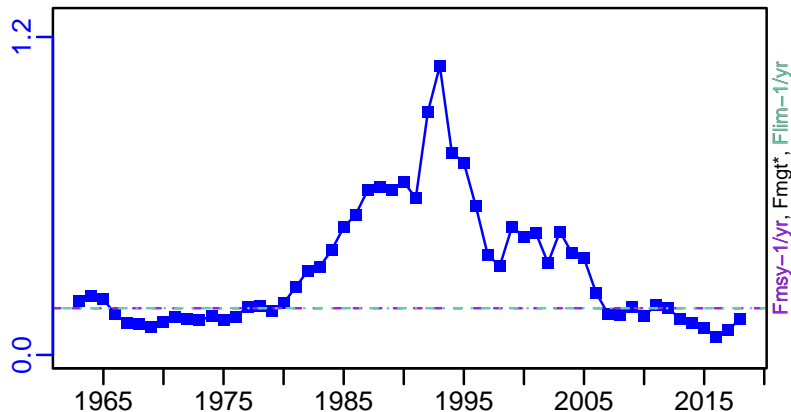
TB-MT (1962–2011–HIVELY)



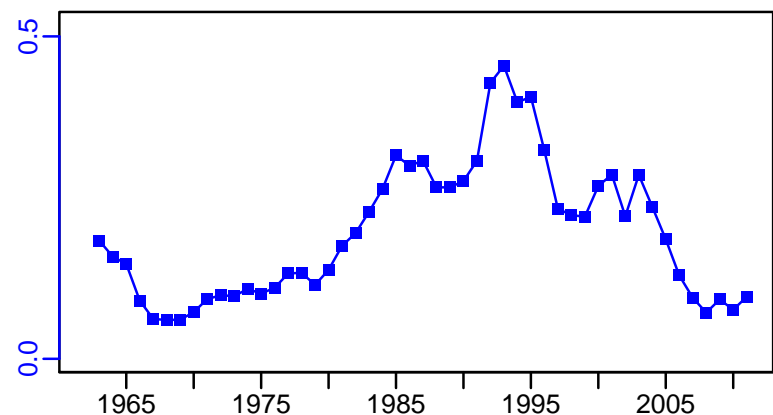
SSB-MT (1962–2018–SISIMP2021–2)



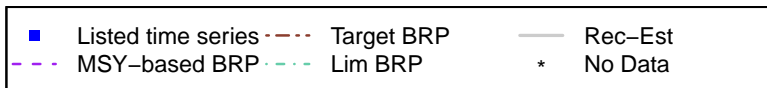
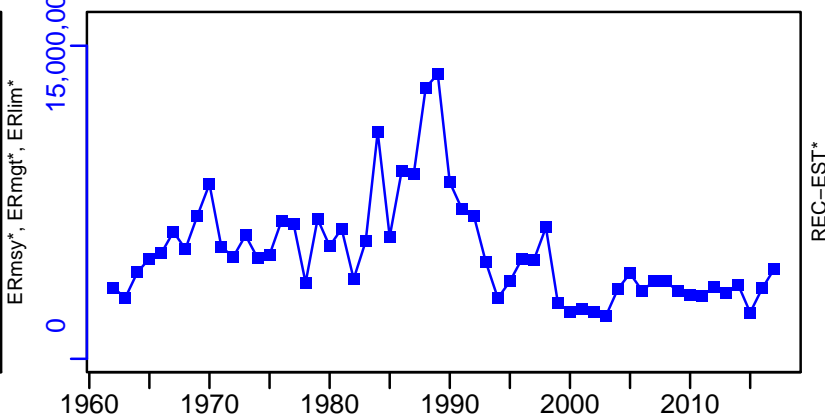
F-1/yr (1962–2018–SISIMP2021–2)



ER-calc-ratio (1962–2011–HIVELY)



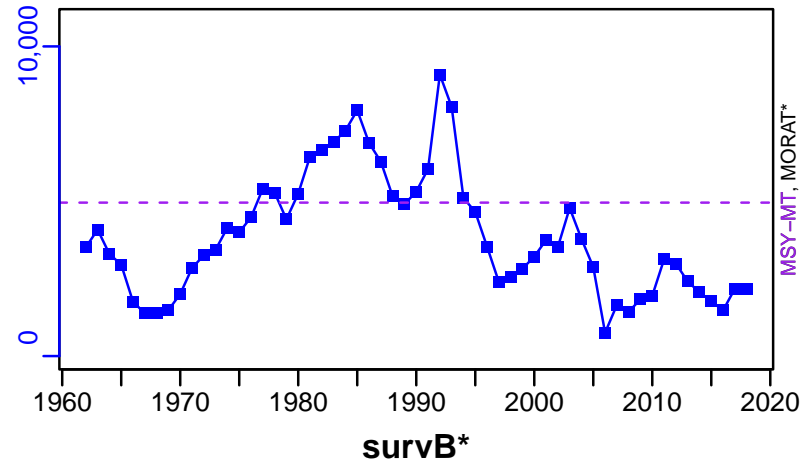
R-E00 (1962–2018–SISIMP2021–2)



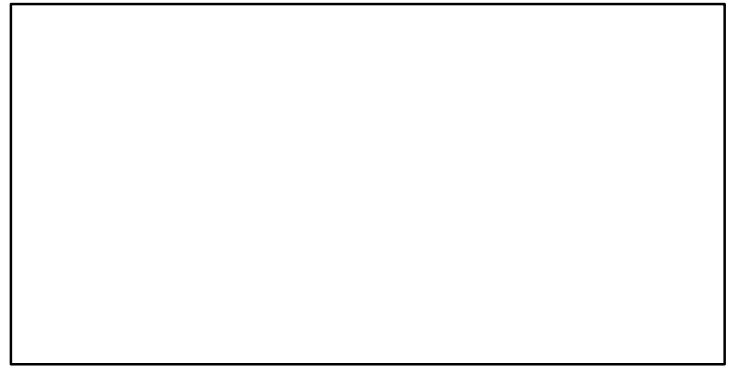
White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

TC-MT, TL*, RecC* (1962-2018-SISIMP2021-2)

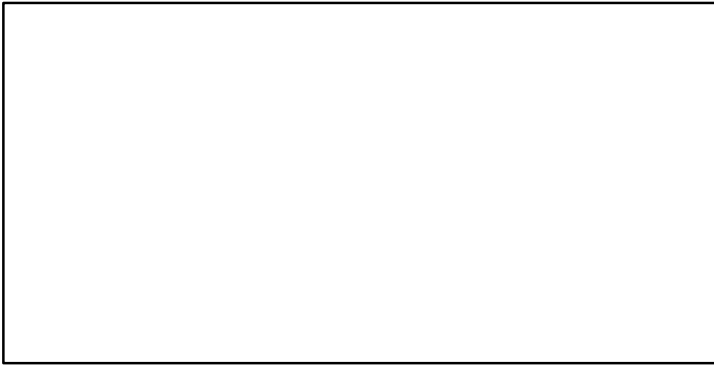
TAC*, Cpair*, Cadv*



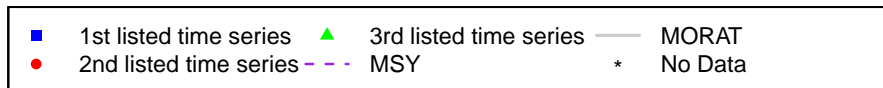
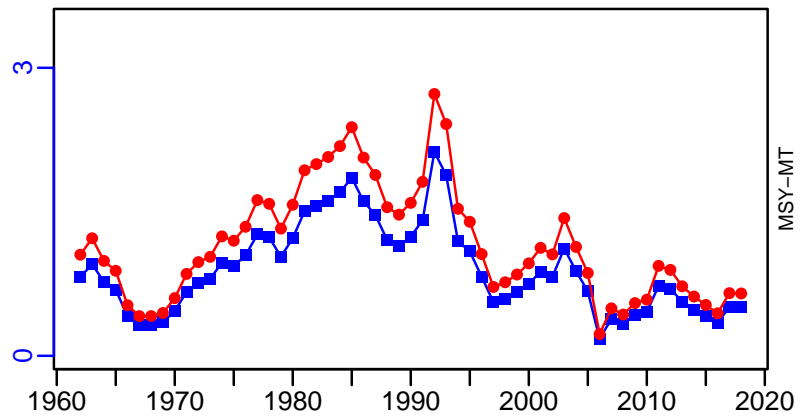
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962-2018-SISIMP2021-2)



Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

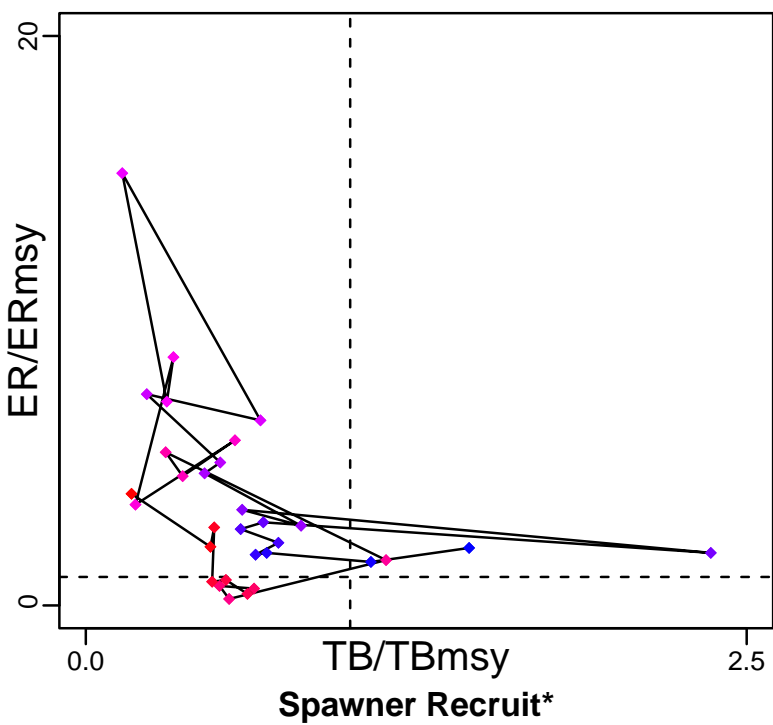
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWGOMGB-1975-2019-SISIMP2021-2
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	1400
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	0.5
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	700
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

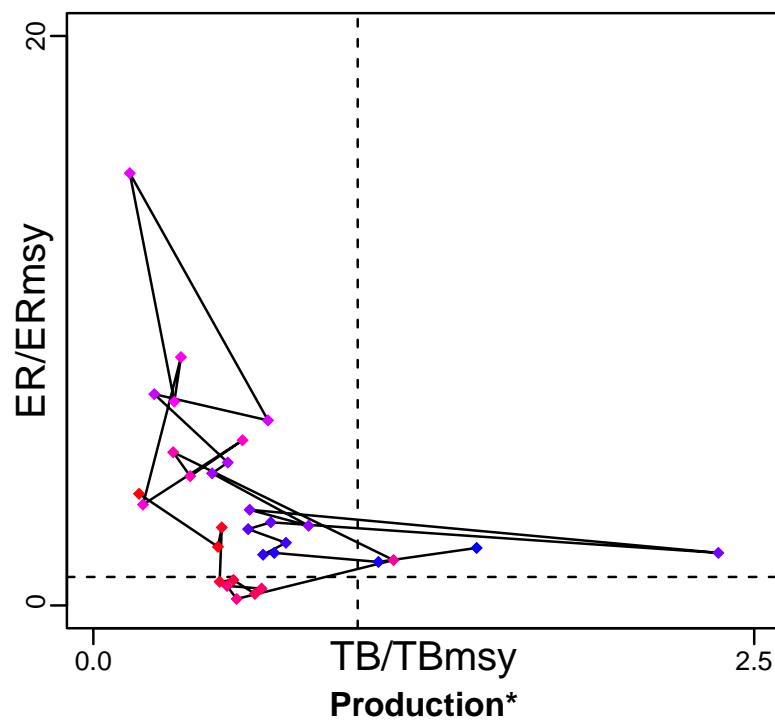
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.242	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.96	-	-
TC	TC-MT	2019	43		
TL	TL-MT	2007	119		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.173		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	3.92		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

Kobe MSYpref (1975–2007–HENDRICKSON)



Kobe MGTpref (1975–2007–HENDRICKSON)

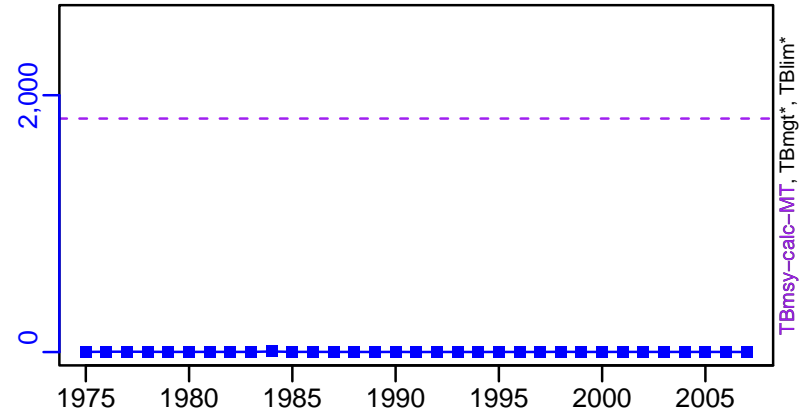


◆ Start Year ◆ End Year * No Data

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

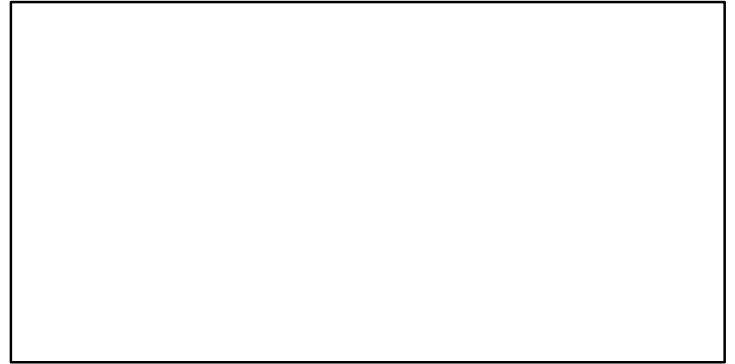
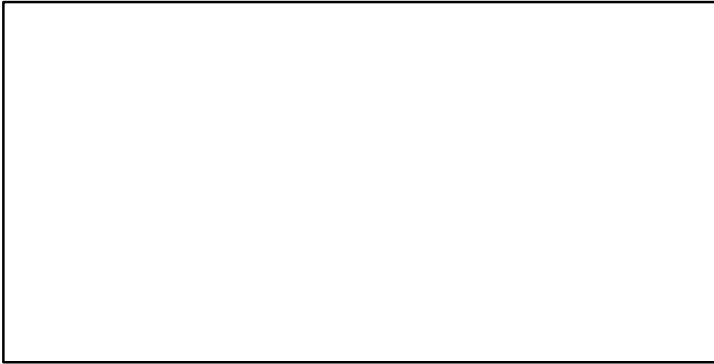
TB-relative (1975–2007–HENDRICKSON)

SSB*



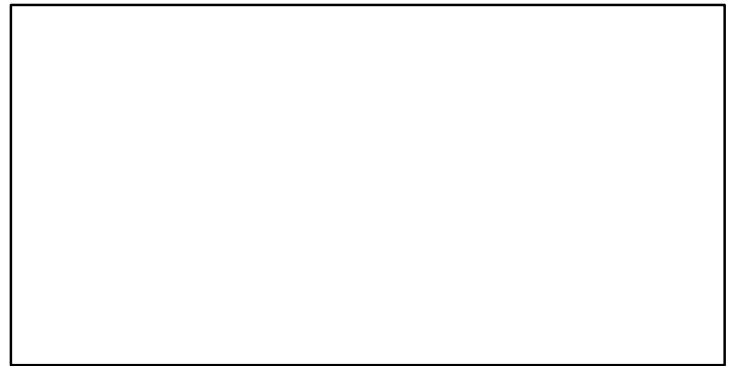
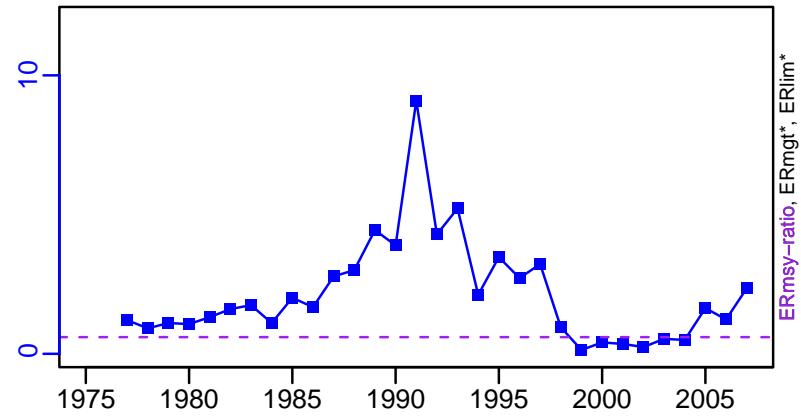
TN *

F*



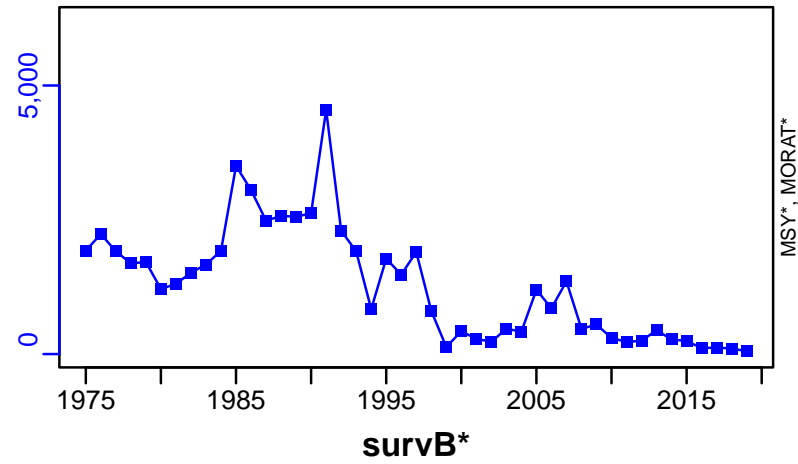
ER-ratio (1975–2007–HENDRICKSON)

Recruits*



Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

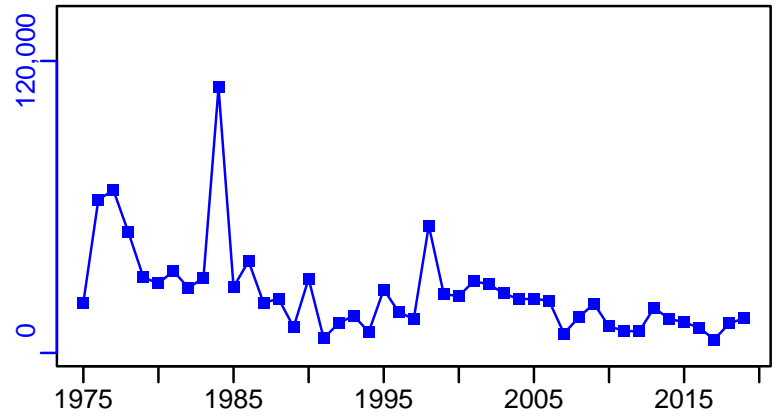
TC-MT, TL*, RecC* (1975-2019-SISIMP2021-2)



TAC*, Cpair*, Cadv*



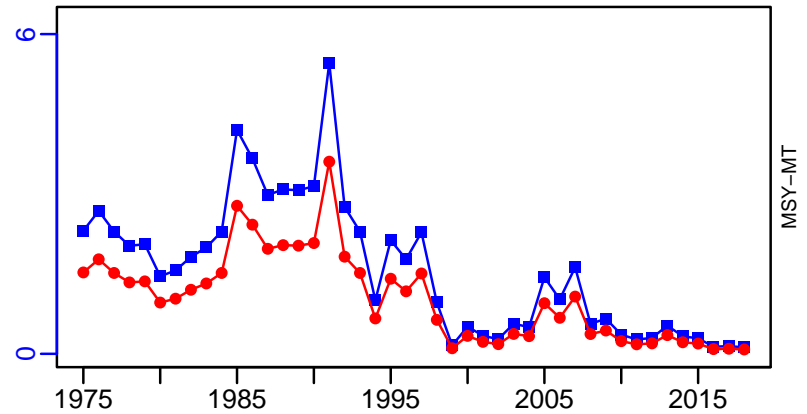
CPUE-index (1975-2019-SISIMP2021-2)



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2018-SISIMP2021-2)



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

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

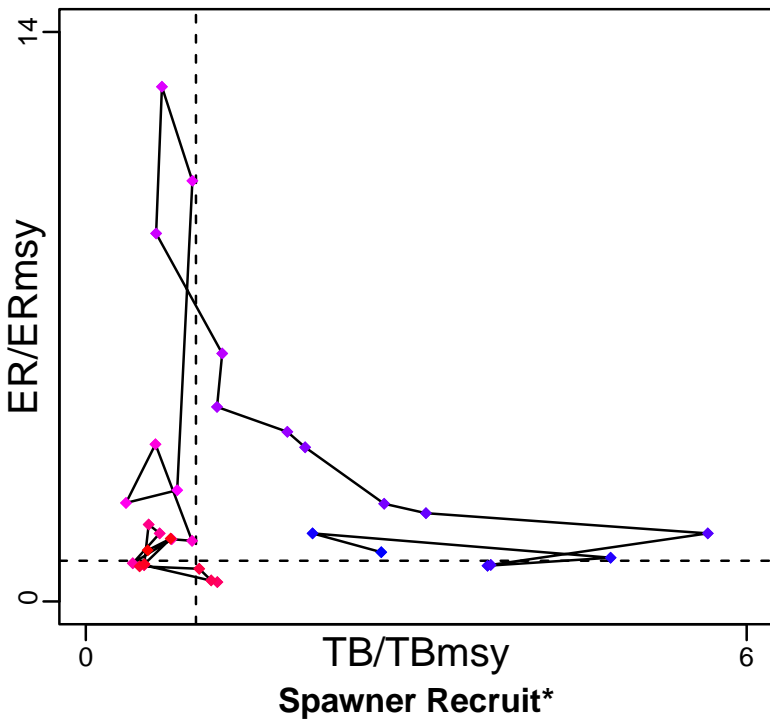
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWSNEMATL-1975-2019-SISIMP2021-2
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-calc-MT	2007	340
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	ERmsy-ratio	2007	1.47
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	333
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

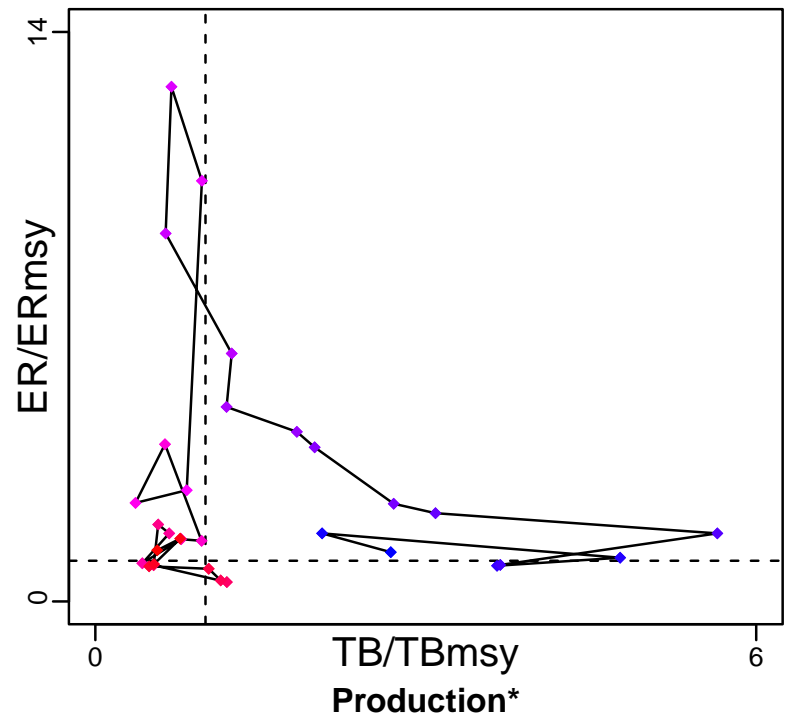
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.191	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.85	-	-
TC	TC-MT	2019	374		
TL	TL-MT	2007	81		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.562		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	1.259		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

Kobe MSYpref (1975–2007–HENDRICKSON)



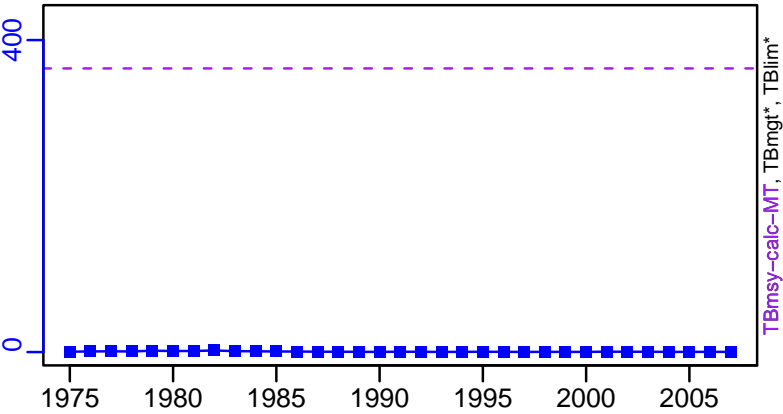
Kobe MGTpref (1975–2007–HENDRICKSON)



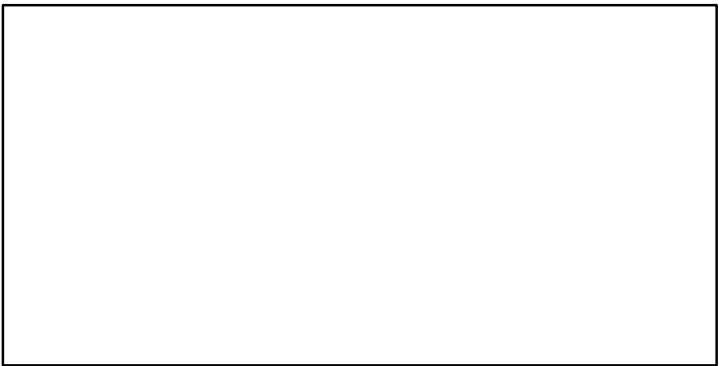
◆ Start Year ◆ End Year * No Data

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

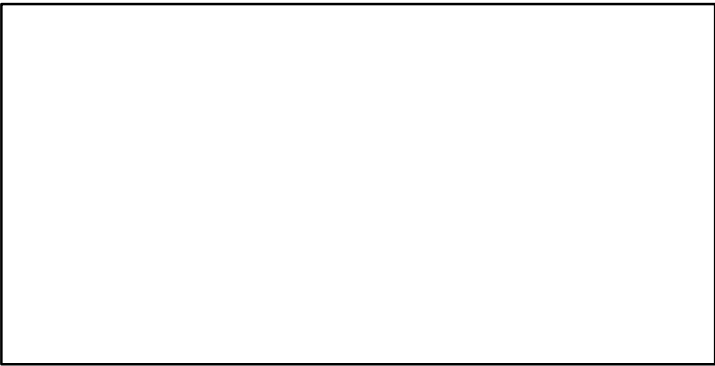
TB-relative (1975–2007–HENDRICKSON)



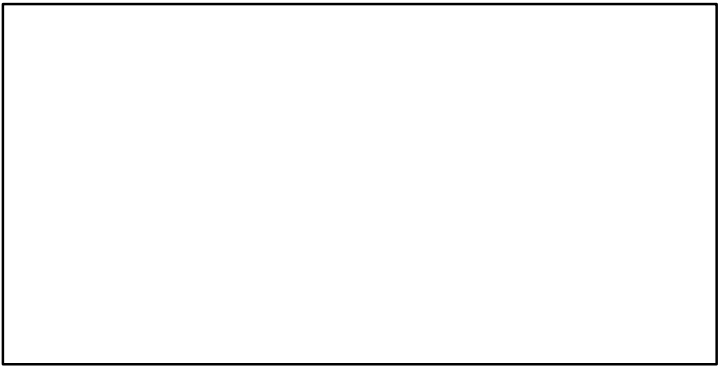
SSB*



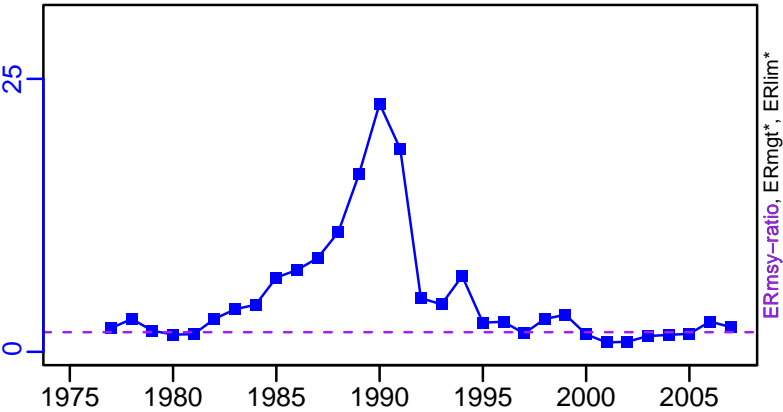
TN *



F*



ER-ratio (1975–2007–HENDRICKSON)



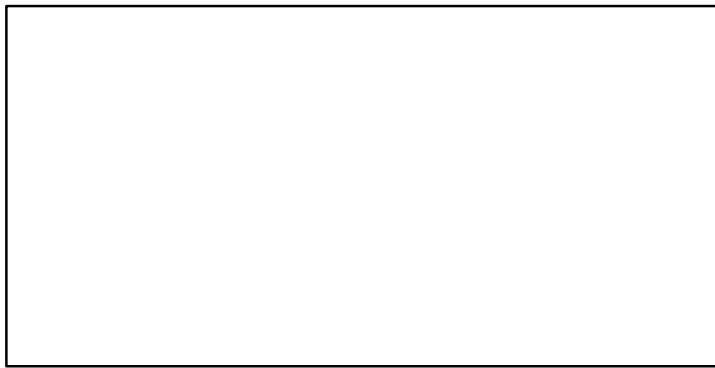
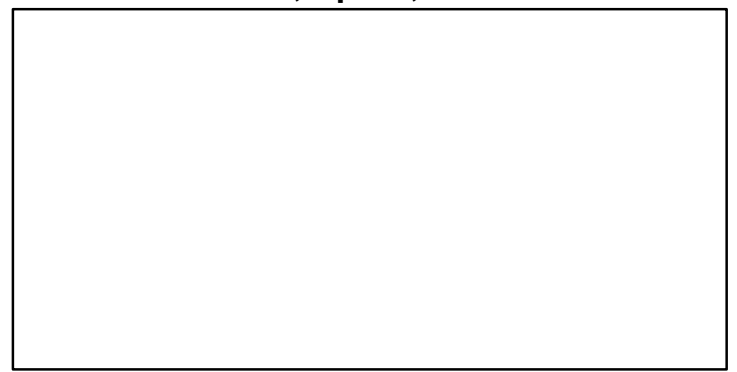
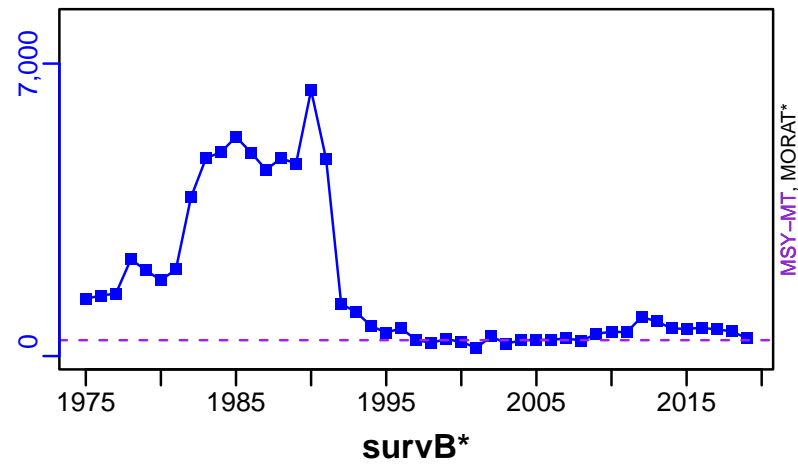
Recruits*



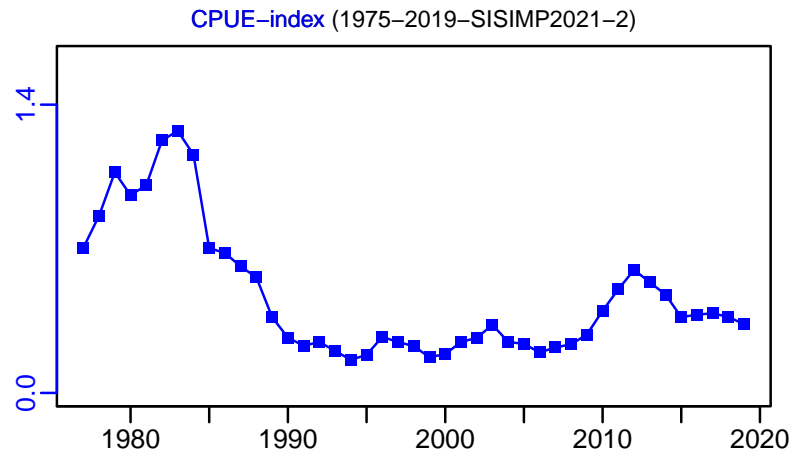
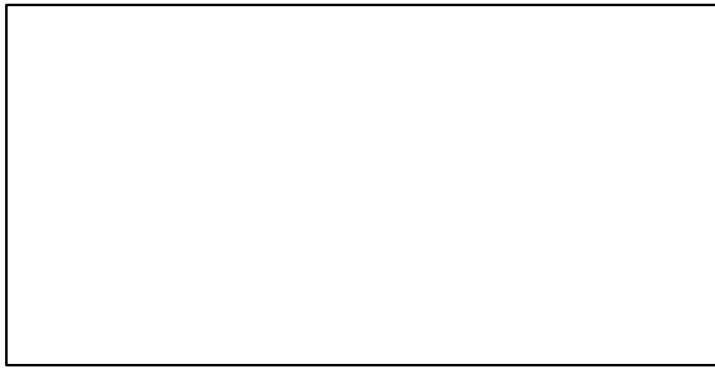
Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

TC-MT, TL*, RecC* (1975-2019-SISIMP2021-2)

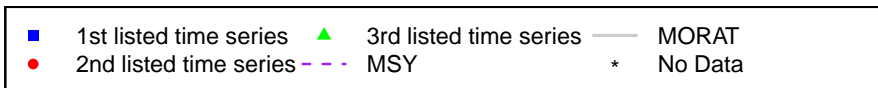
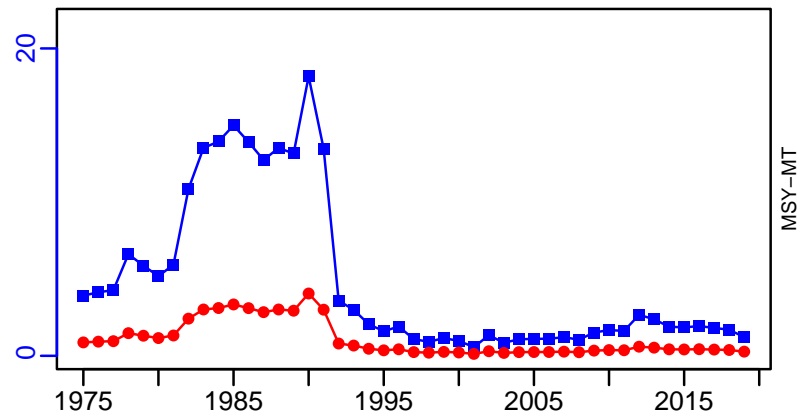
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975-2019-SISIMP2021-2)



Winter flounder Georges Bank [WINFLOUN5Z]

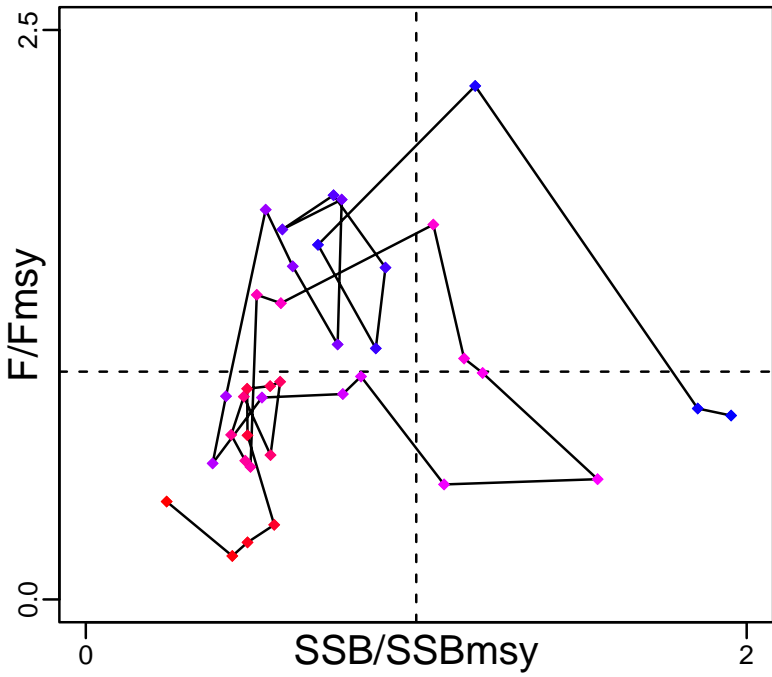
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUN5Z-1982-2019-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2019, 2016, 2014, 2019

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	8910
Fmsy	Fmsy-1/yr	2019	0.519
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2011	11,800
Fmgt	Fmgt-1/yr	2011	0.315
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	2570
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	4460
Flim	Flim-1/yr	2019	0.519
ERlim	-	-	-

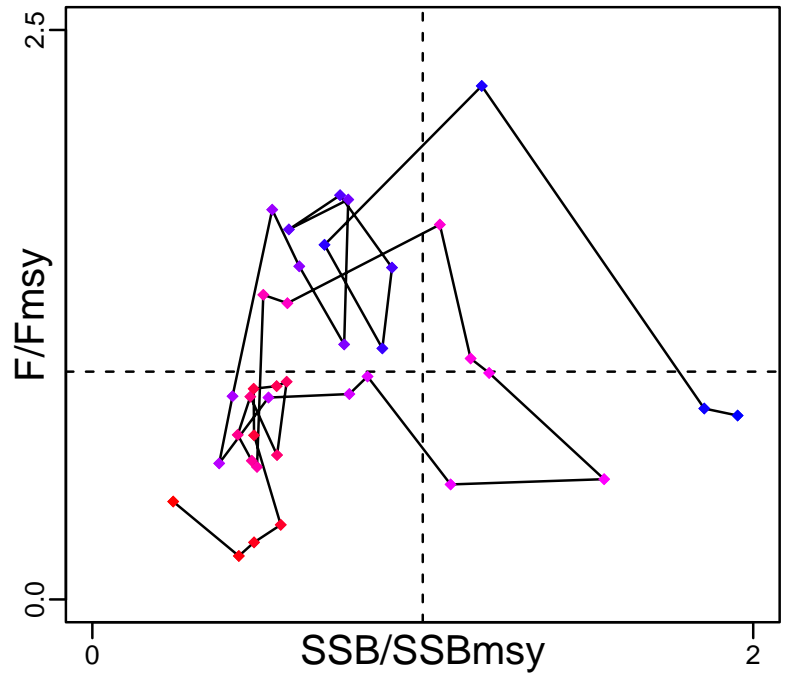
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	2180	-	-
TN	TN-E00	2011	38,600,000	-	-
R	R-E00	2019	3,270,000	-	1
F	F-1/yr	2019	0.223	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	490		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.245		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.43		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2011	0.822		
F/Fmgt	F-1/yr/Fmgt-1/yr	2011	0.489		
ER/ERmgt	-	-	-		

Winter flounder Georges Bank [WINFLOUN5Z]

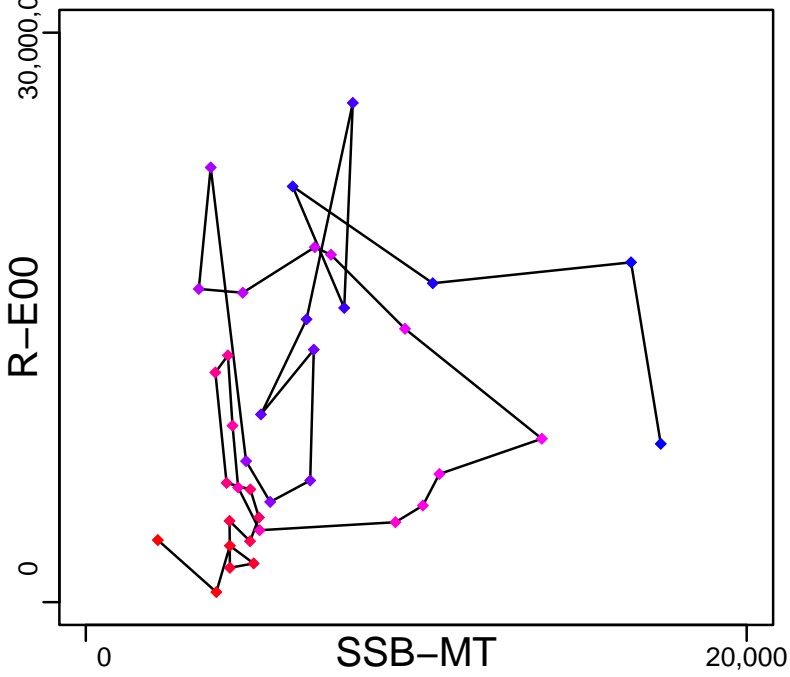
Kobe MSYpref (1964–2019–SISIMP2021–2)



Kobe MGTpref (1964–2019–SISIMP2021–2)



Spawner Recruit (1964–2019–SISIMP2021–2)



Production*



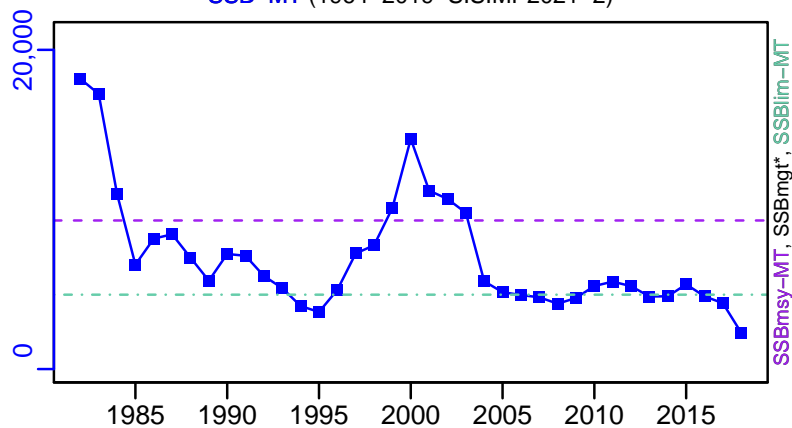
◆ Start Year ◆ End Year * No Data

Winter flounder Georges Bank [WINFLOUN5Z]

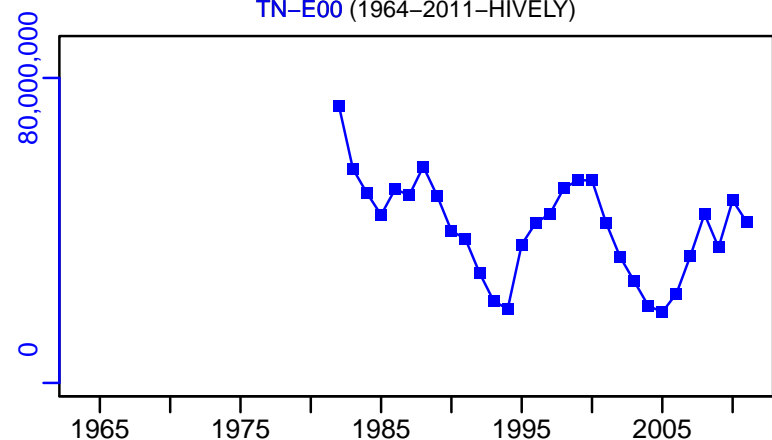
TB*



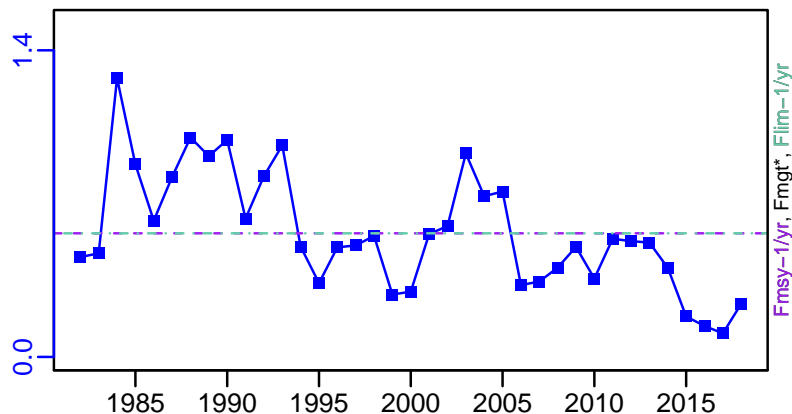
SSB-MT (1964–2019–SISIMP2021–2)



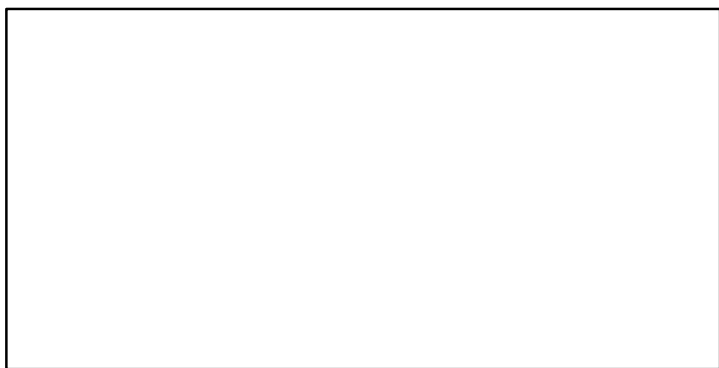
TN-E00 (1964–2011–HIVELY)



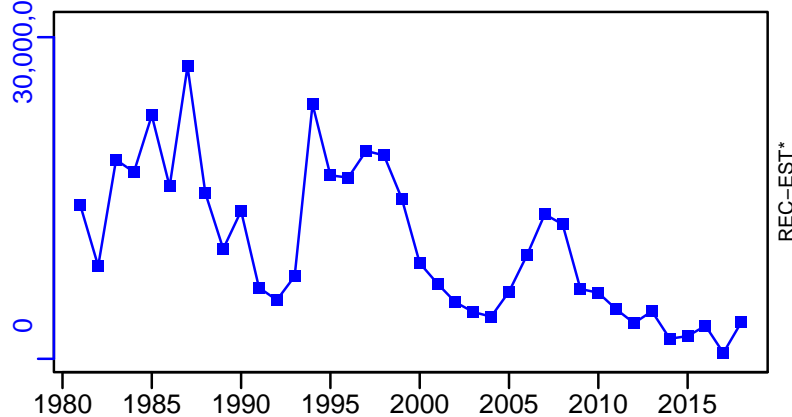
F-1/yr (1964–2019–SISIMP2021–2)



ER*

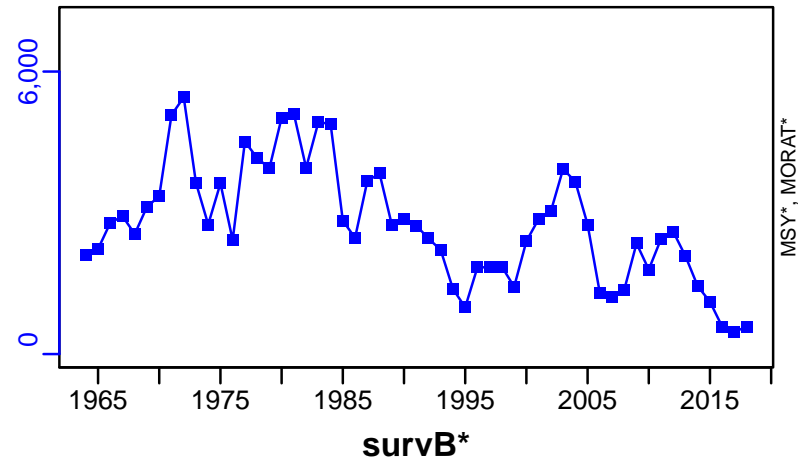


R-E00 (1964–2019–SISIMP2021–2)



Winter flounder Georges Bank [WINFLOUN5Z]

TC-MT, TL*, RecC* (1964-2019-SISIMP2021-2)



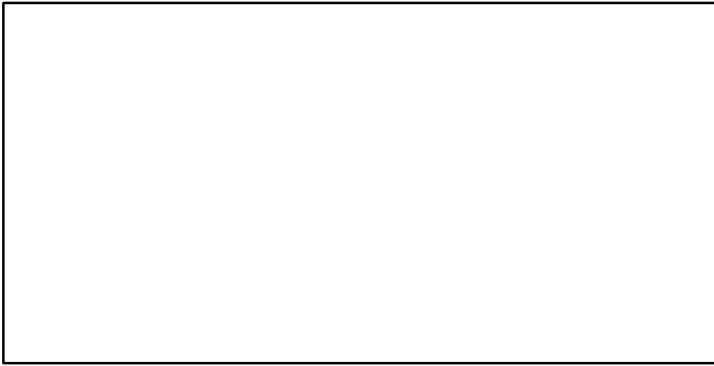
TAC*, Cpair*, Cadv*



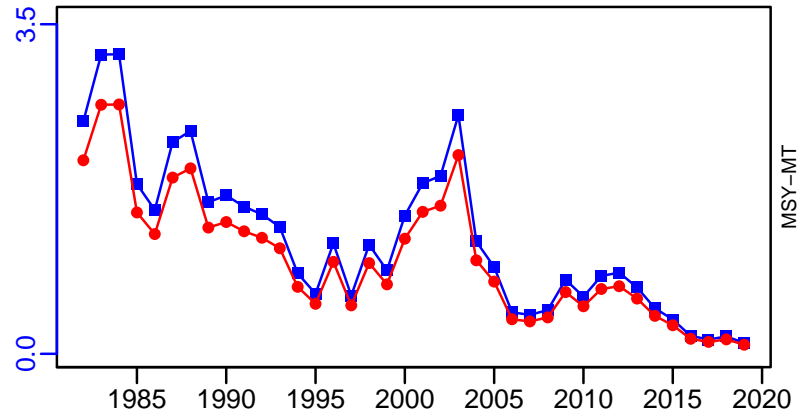
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2019-SISIMP2021-2)



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

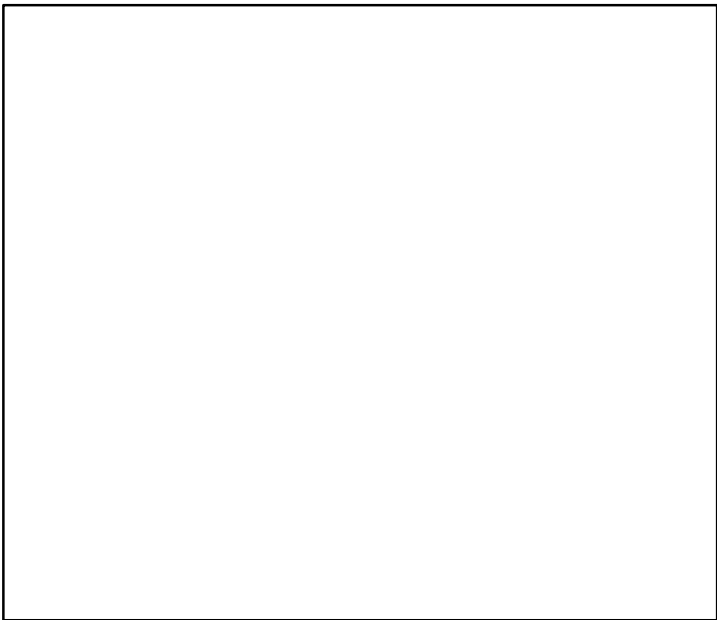
Winter flounder Gulf of Maine [WINFLOUND5Y]

Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUND5Y-1982-2019-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2019, 2014, 2016

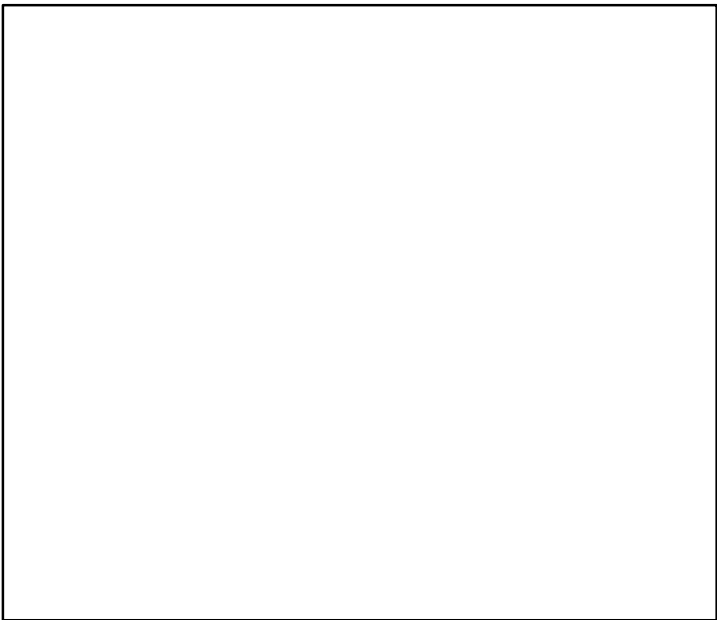
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2008	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	ERlim-ratio	2019	0.23

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2019	0.052	-	-
TC	TC-MT	2019	150		
TL	TL-MT	2008	260		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

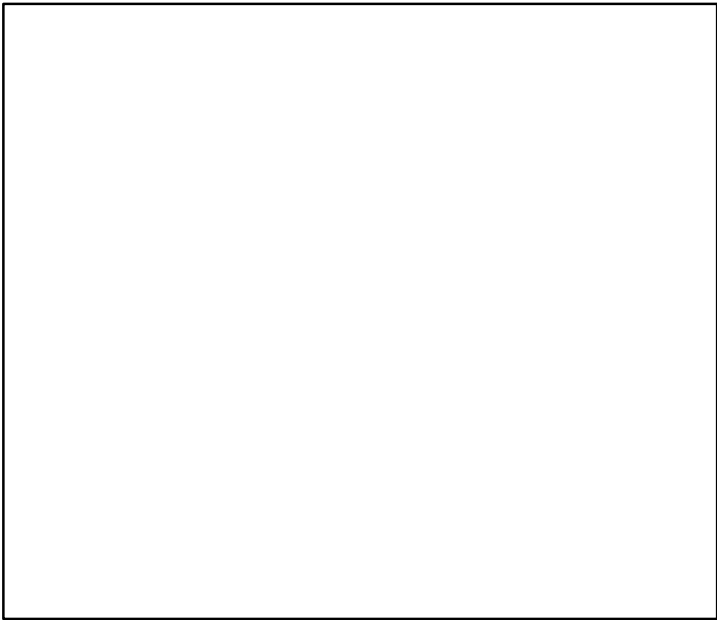
Kobe MSY*



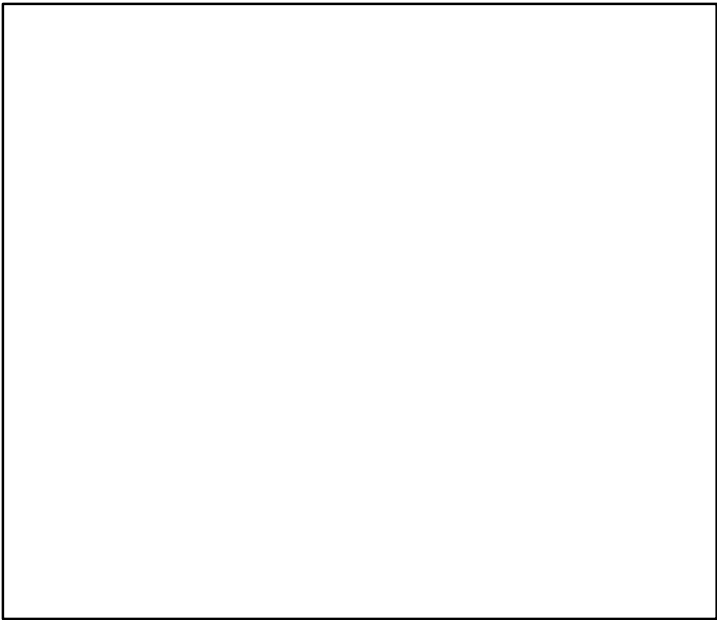
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Winter flounder Gulf of Maine [WINFLOUND5Y]

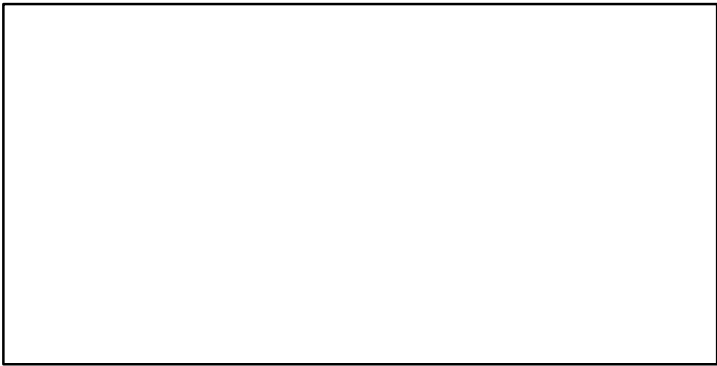
TB*



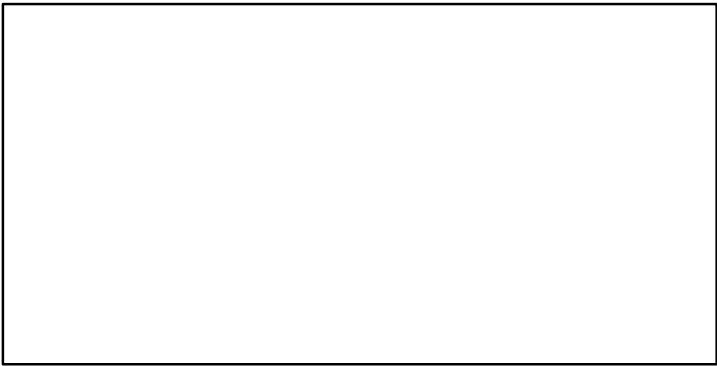
SSB*



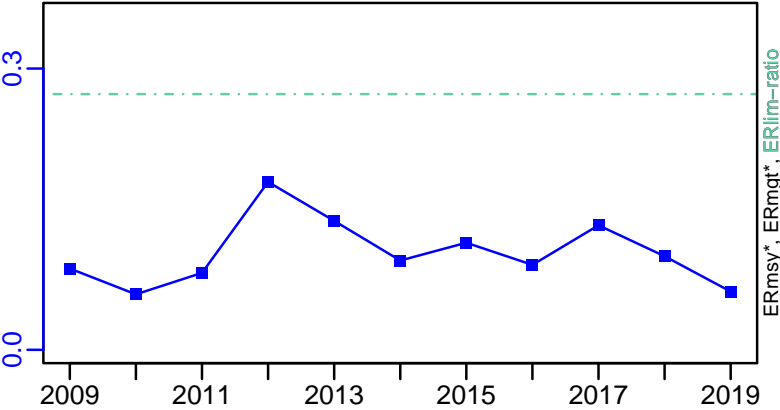
TN *



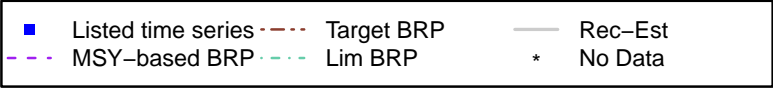
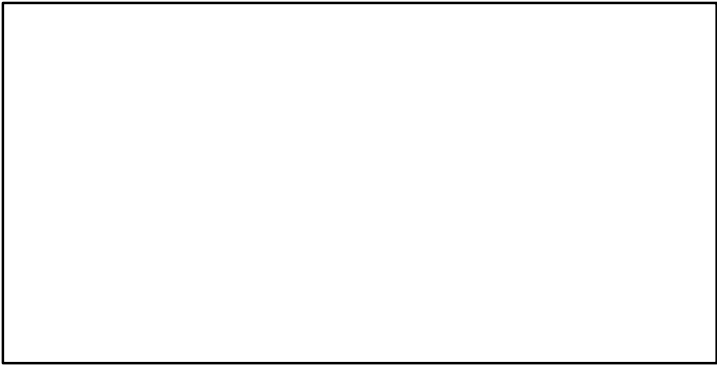
F*



ER-ratio (1982–2019–SISIMP2021–2)

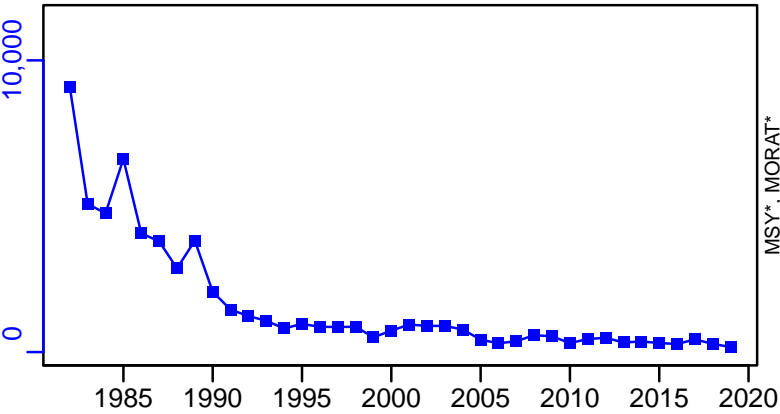


Recruits*



Winter flounder Gulf of Maine [WINFLOUND5Y]

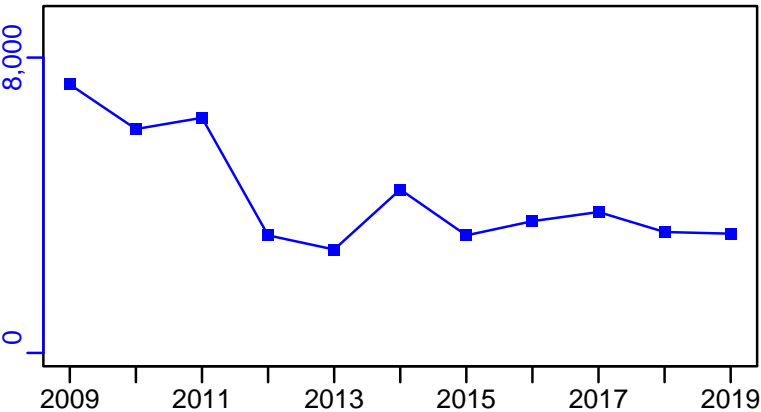
TC-MT, TL*, RecC* (1982-2019-SISIMP2021-2)



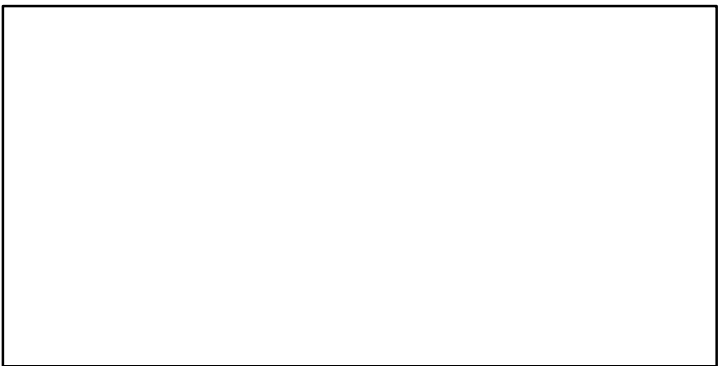
TAC*, Cpair*, Cadv*



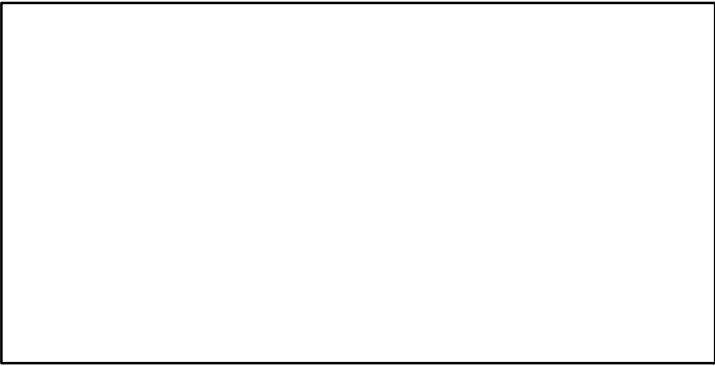
survB-MT (1982-2019-SISIMP2021-2)



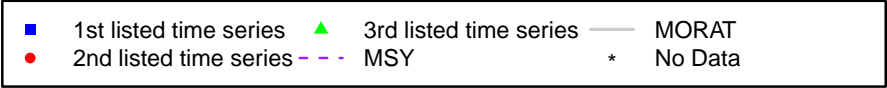
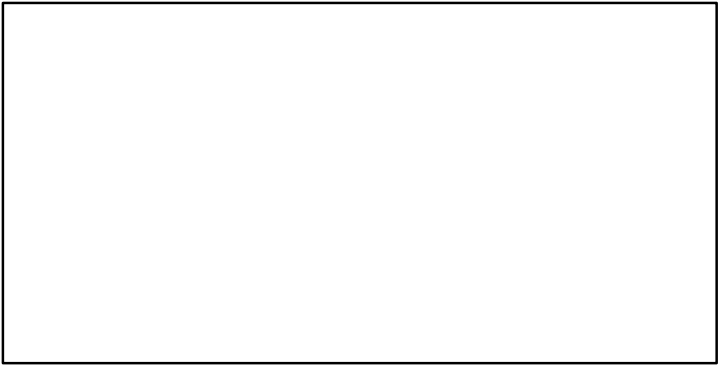
CPUE*



EFFORT*



CdivMSY*



Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

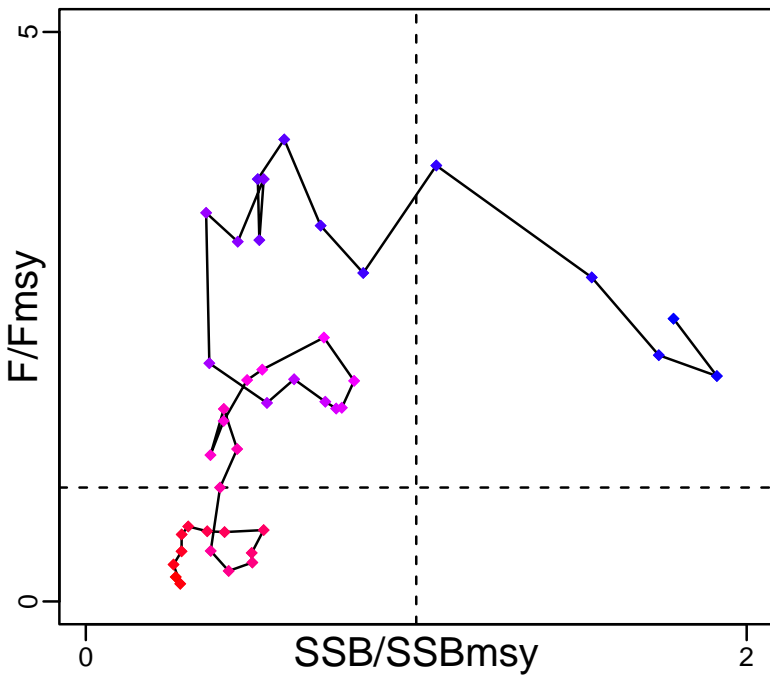
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUNSNEMATL-1981-2022-SISIMP2022
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2013, 2016, 2019, 2022

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2022	12,322
Fmsy	Fmsy-1/yr	2022	0.284
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2010	43,661
Fmgt	Fmgt-1/yr	2010	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2022	3906
M	M-1/yr	2010	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	6160
Flim	Flim-1/yr	2019	0.284
ERlim	-	-	-

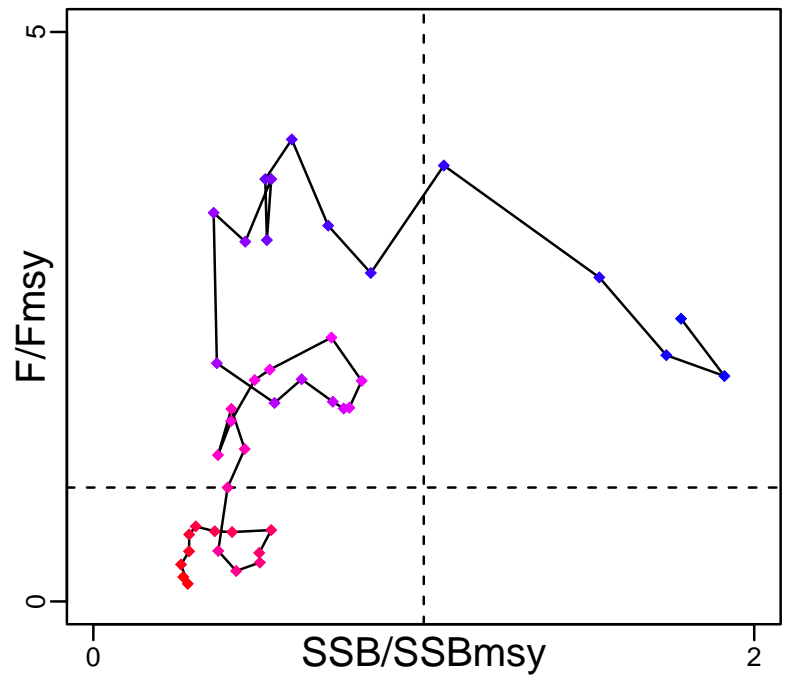
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2022	3472	-	-
TN	-	-	-	-	-
R	R-E00	2022	4,364,000	-	0
F	F-1/yr	2022	0.061	-	4 to 5
ER	-	-	-	-	-
TC	TC-MT	2022	216		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2022	0.282		
F/Fmsy	F-1/yr/Fmsy-1/yr	2022	0.215		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2010	0.162		
F/Fmgt	F-1/yr/Fmgt-1/yr	2010	0.227		
ER/ERmgt	-	-	-		

Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

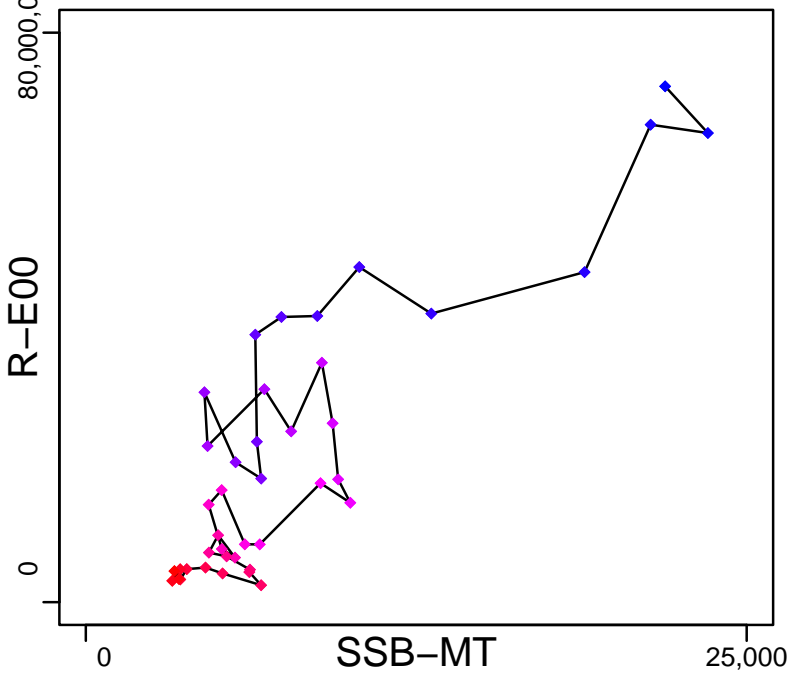
Kobe MSYpref (1981–2022–SISIMP2022)



Kobe MGTpref (1981–2022–SISIMP2022)



Spawner Recruit (1981–2022–SISIMP2022)



Production*



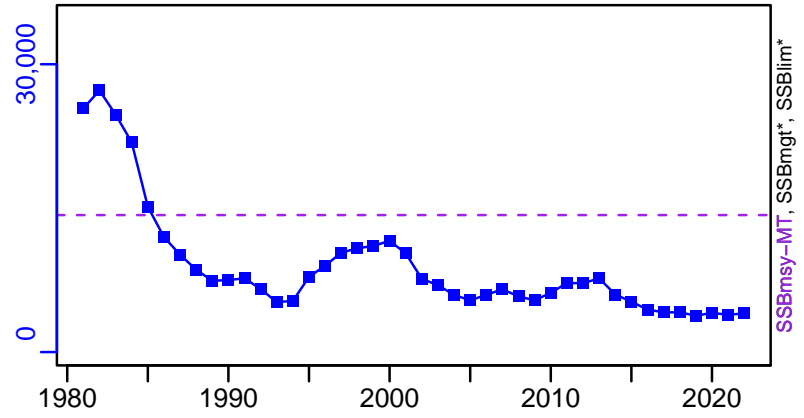
◆ Start Year ◆ End Year * No Data

Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

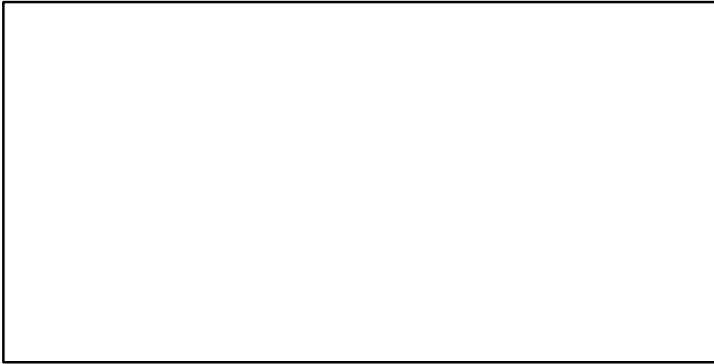
TB*



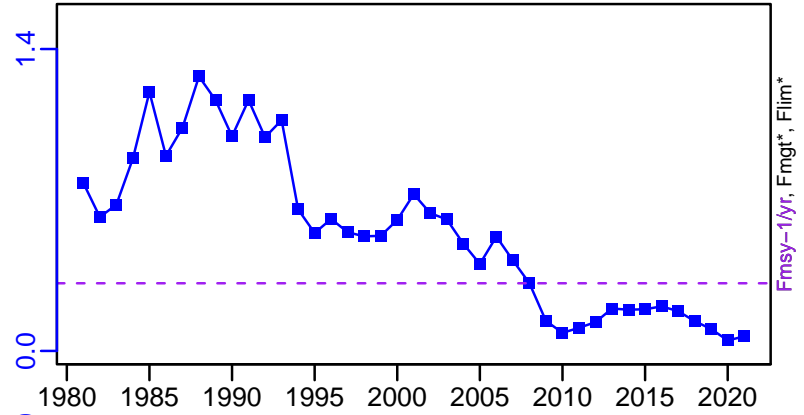
SSB-MT (1981-2022-SISIMP2022)



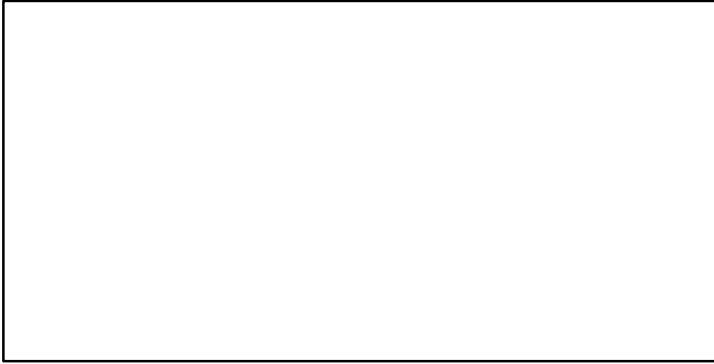
TN *



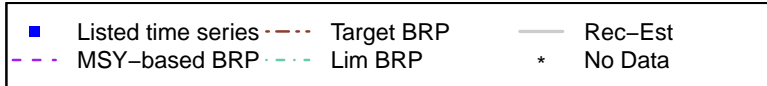
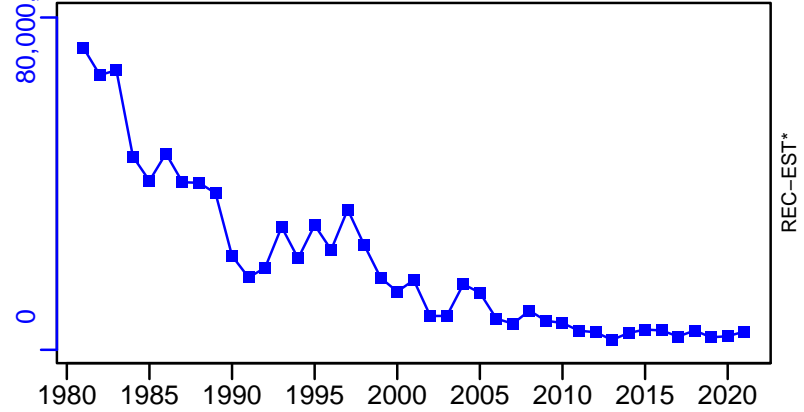
F-1/yr (1981-2022-SISIMP2022)



ER*



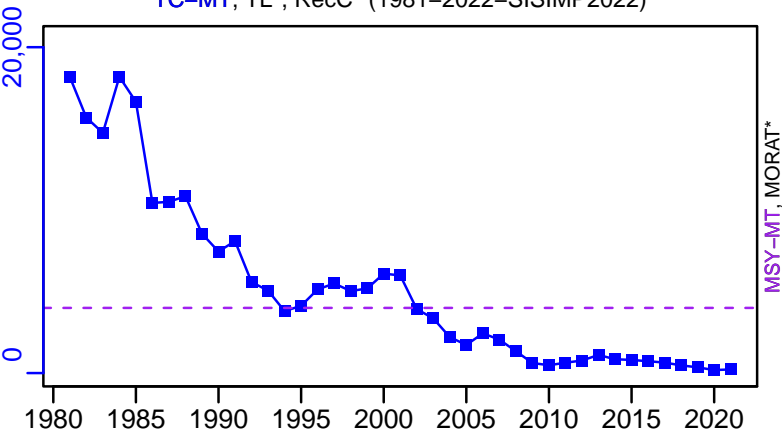
R-E00 (1981-2022-SISIMP2022)



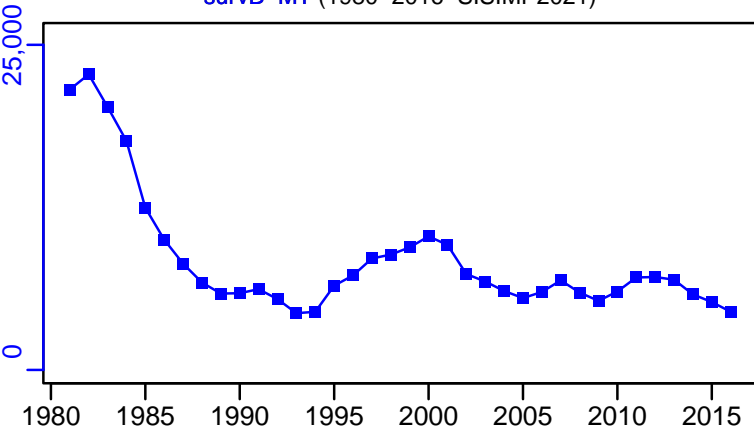
Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

TC-MT, TL*, RecC* (1981-2022-SISIMP2022)

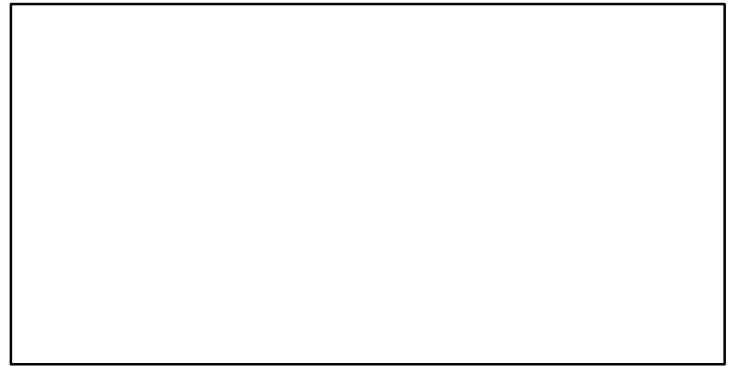
TAC*, Cpair*, Cadv*



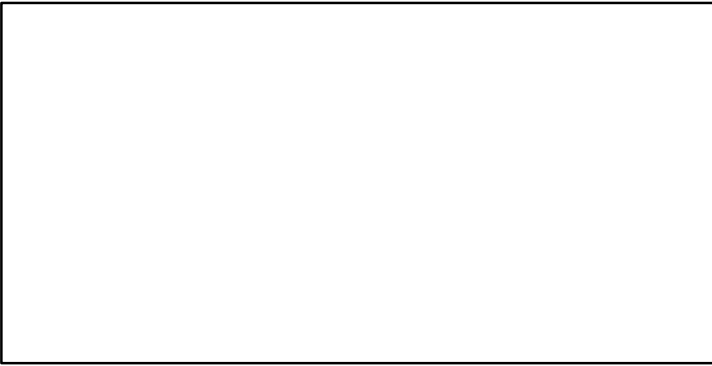
survB-MT (1980-2016-SISIMP2021)



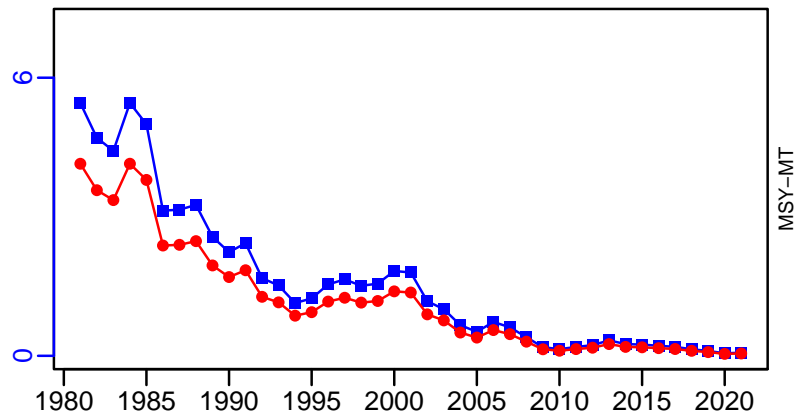
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2022-SISIMP2022)



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

Witch flounder Gulf of Maine [WITFLOUN5Y]

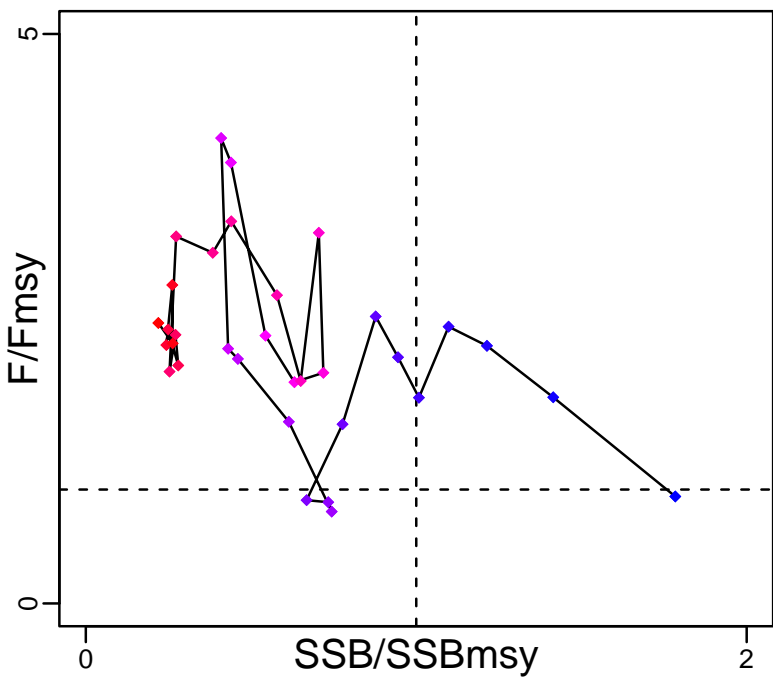
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	NEFSC-WITFLOUN5Y-1937-2019-SISIMP2021-2
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2019, 2008, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	9473
Fmsy	Fmsy-1/yr	2014	0.279
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	1957
M	M-1/yr	2008	0.15
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	4736
Flim	Flim-1/yr	2014	0.279
ERlim	-	-	-

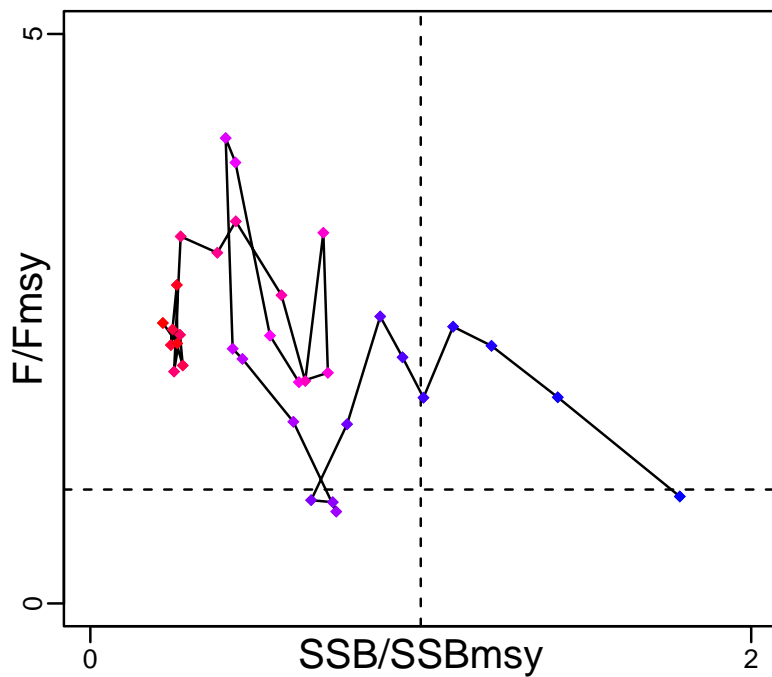
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	30,400	-	-
TN	-	-	-	-	-
R	R-E00	2014	10,200,000	-	3
F	F-1/yr	2014	0.687	-	-
ER	ER-ratio	2019	0.02	-	-
TC	TC-MT	2019	722		
TL	TL-MT	2008	1070		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.22		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	2.462		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Witch flounder Gulf of Maine [WITFLOUN5Y]

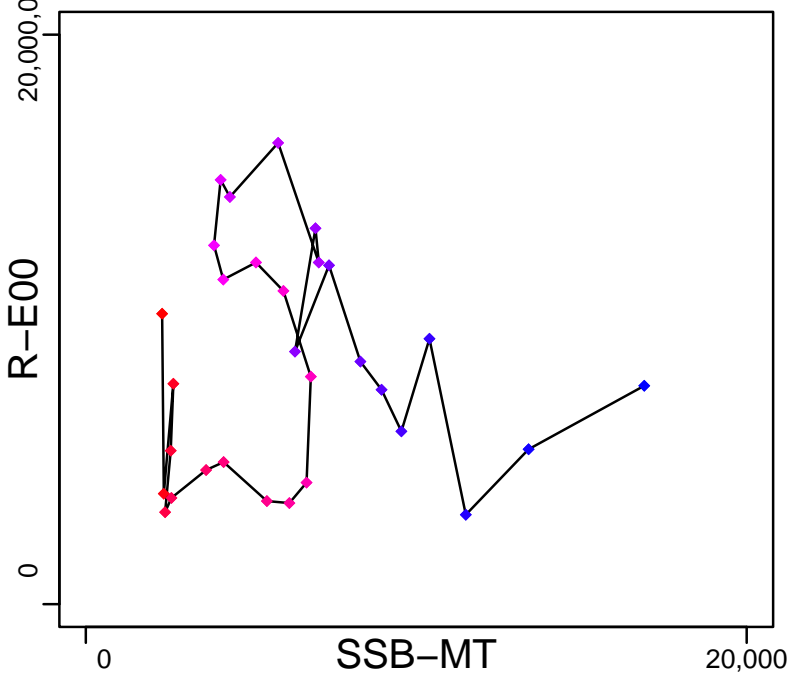
Kobe MSY_{pref} (1982–2014–SISIMP2016)



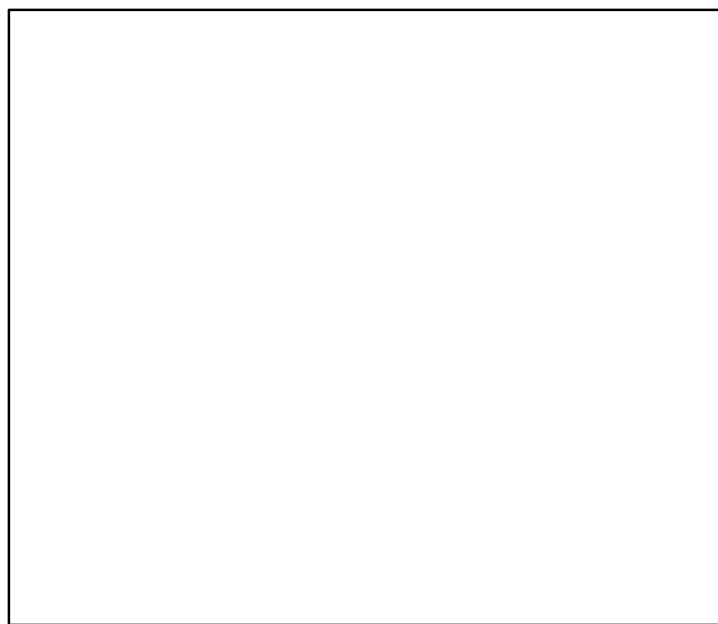
Kobe MGT_{pref} (1982–2014–SISIMP2016)



Spawner Recruit (1982–2014–SISIMP2016)



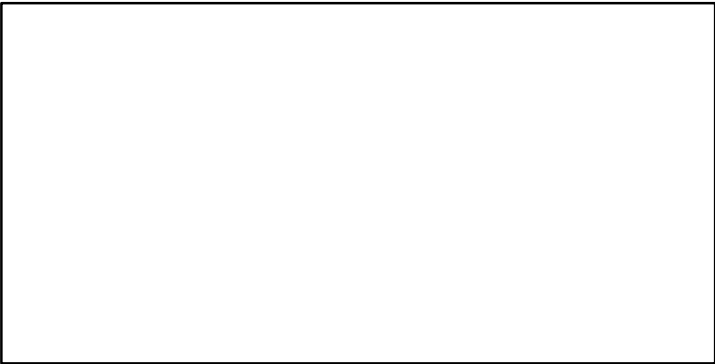
Production*



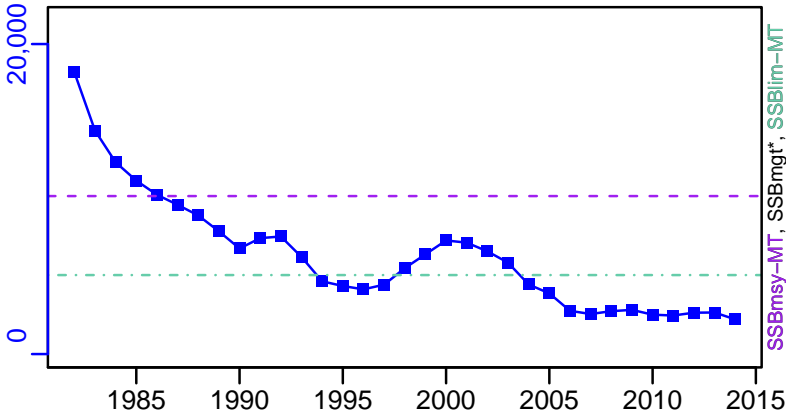
◆ Start Year ◆ End Year * No Data

Witch flounder Gulf of Maine [WITFLOUN5Y]

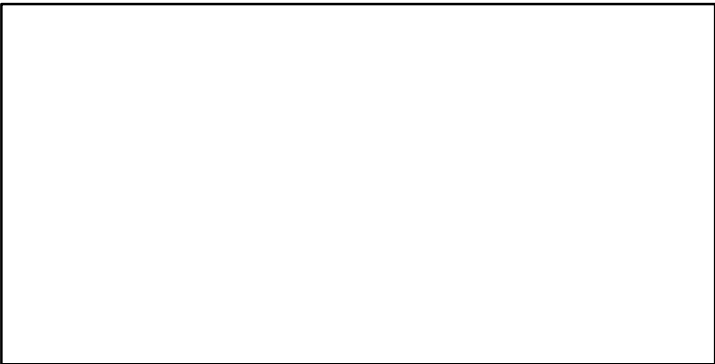
TB*



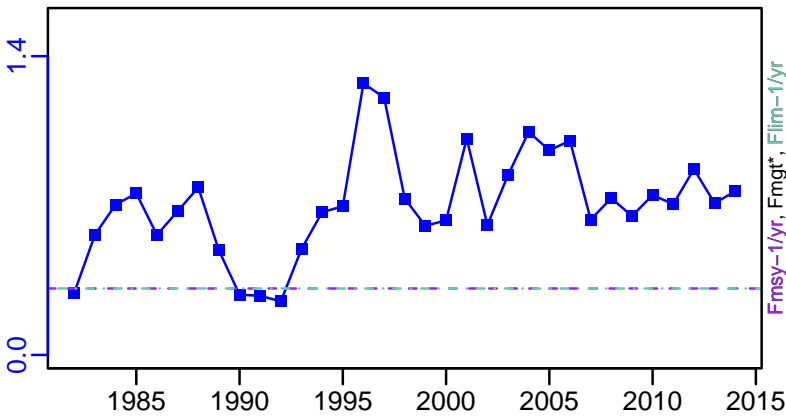
SSB-MT (1982–2014–SISIMP2016)



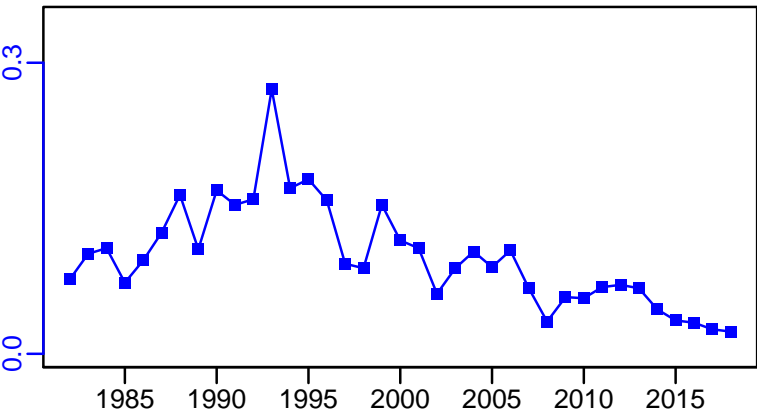
TN *



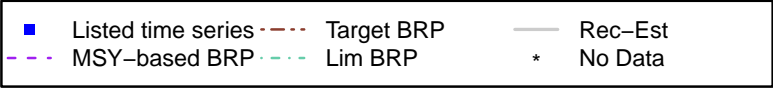
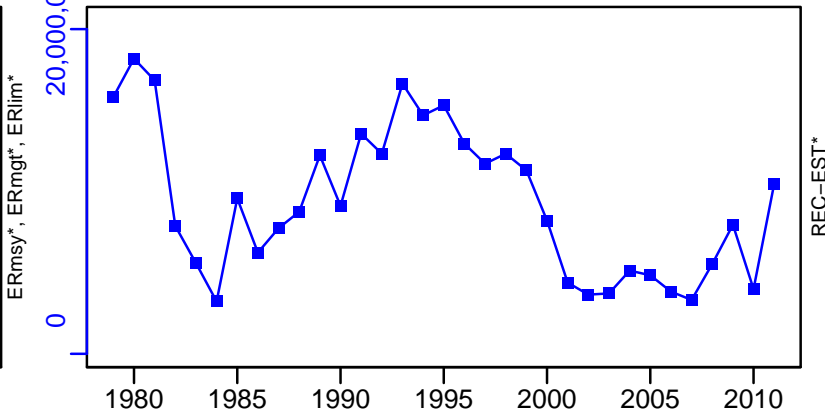
F-1/yr (1982–2014–SISIMP2016)



ER-ratio (1937–2019–SISIMP2021–2)

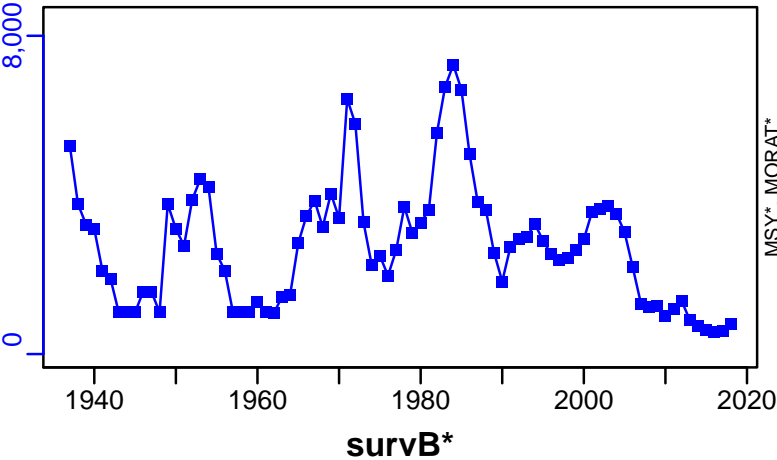


R-E00 (1982–2014–SISIMP2016)

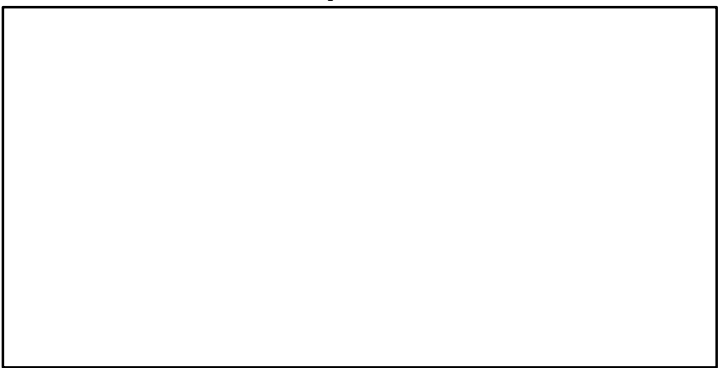


Witch flounder Gulf of Maine [WITFLOUN5Y]

TC-MT, TL*, RecC* (1937-2019-SISIMP2021-2)



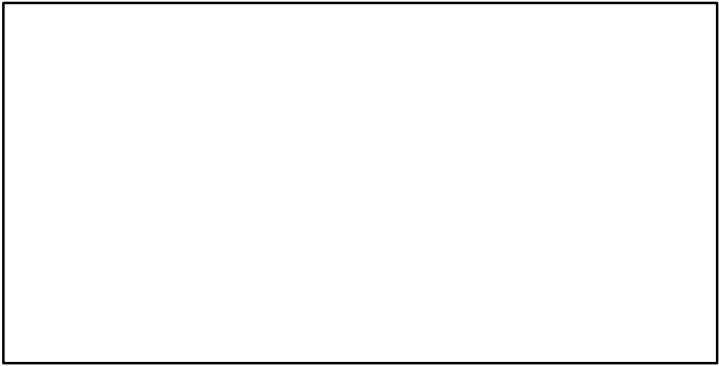
TAC*, Cpair*, Cadv*



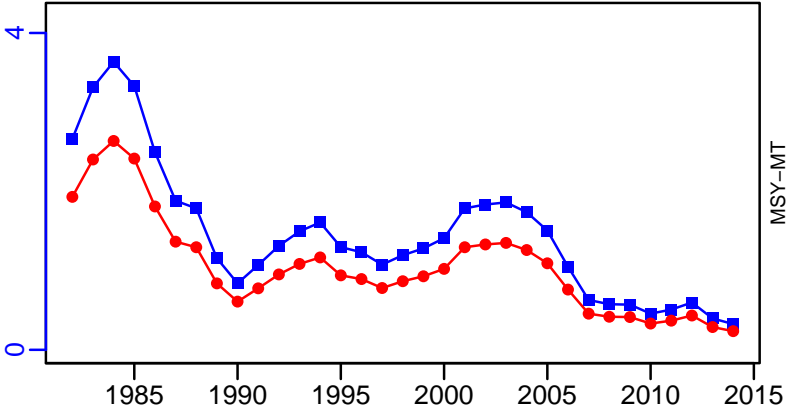
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1982-2014-SISIMP2016)



Winter skate Gulf of Maine / Cape Hatteras [WSKAT5YCHATT]

Metadata	
Scientific Name	Leucoraja ocellata
Current Assess ID	NEFSC-WSKAT5YCHATT-1967-2005-SOSEBEE
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005

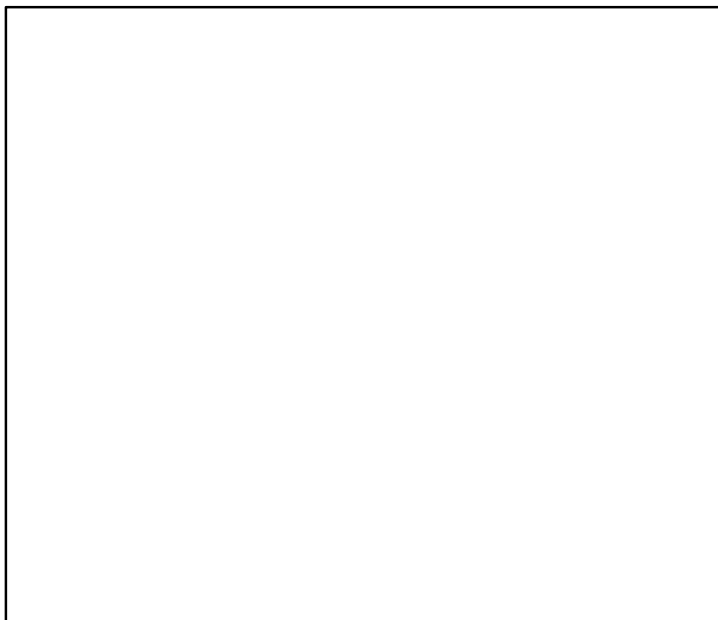
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2005	3360		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

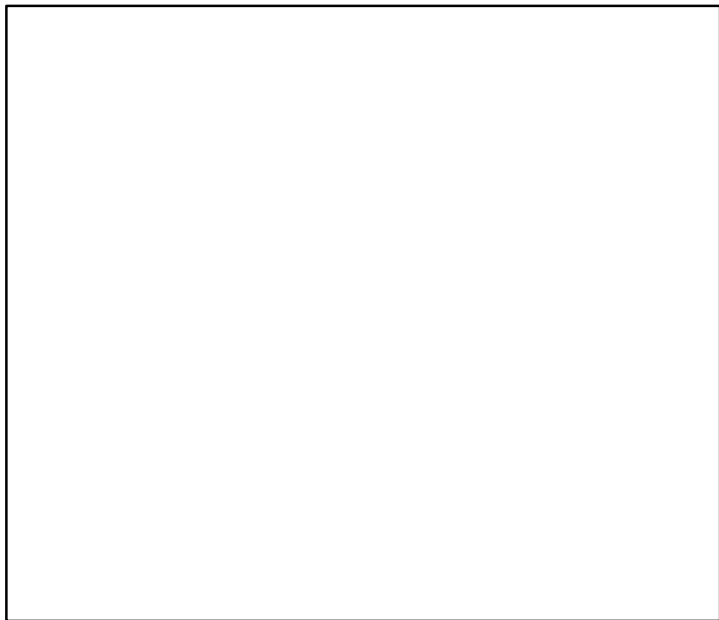
Kobe MSY*



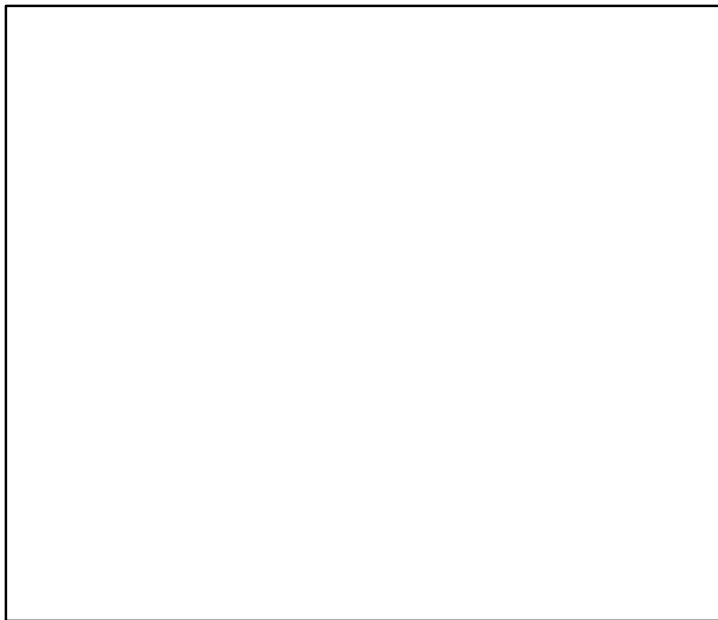
Kobe MGT*



Spawner Recruit*



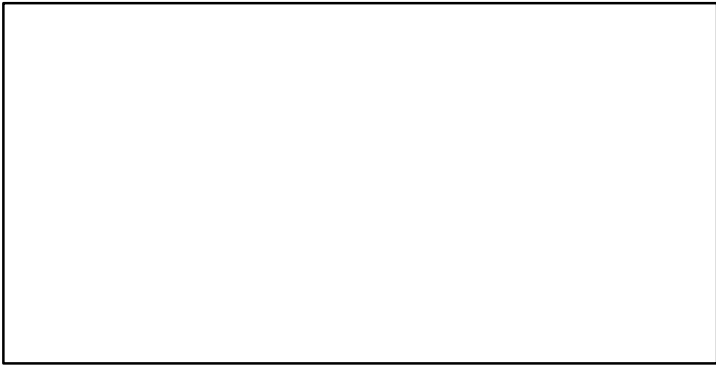
Production*



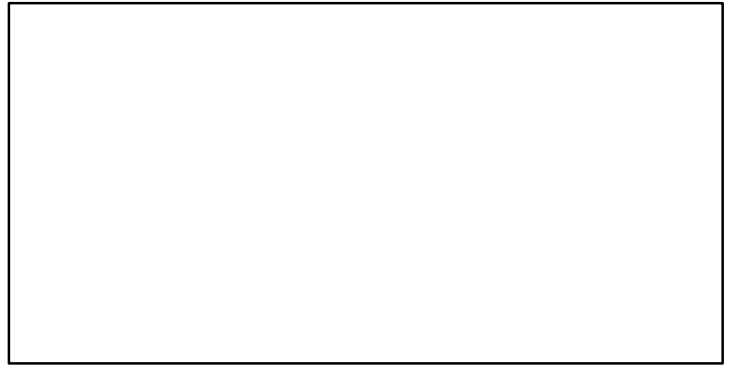
◆ Start Year ◆ End Year * No Data

Winter skate Gulf of Maine / Cape Hatteras [WSKAT5YCHATT]

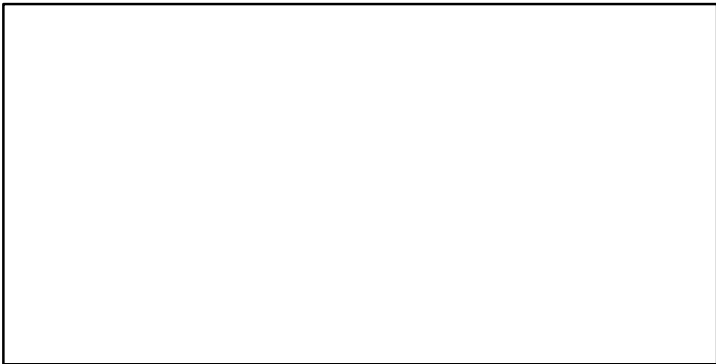
TB*



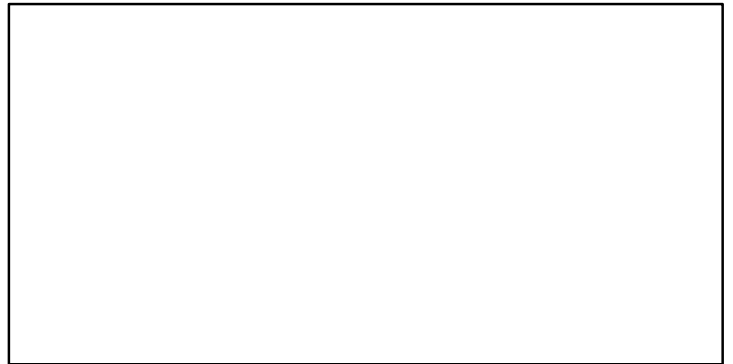
SSB*



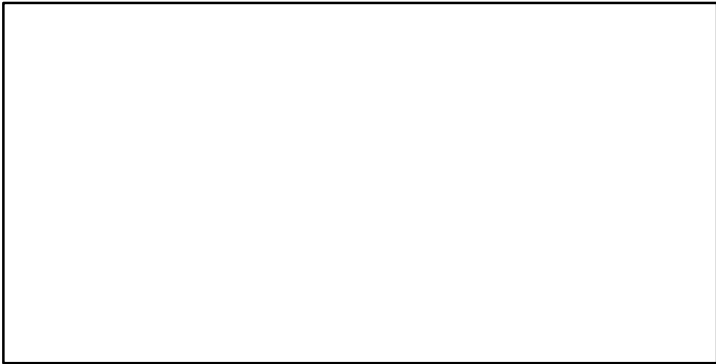
TN *



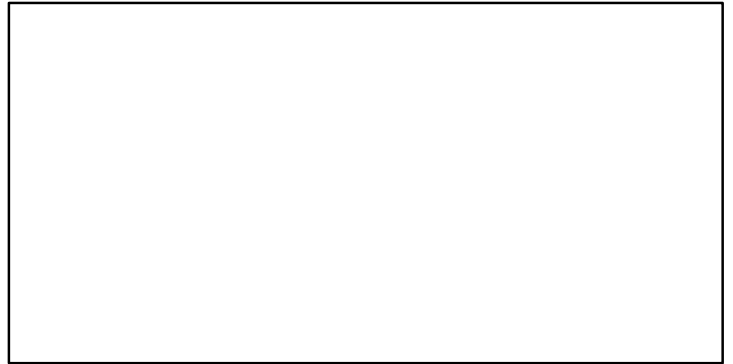
F*



ER*

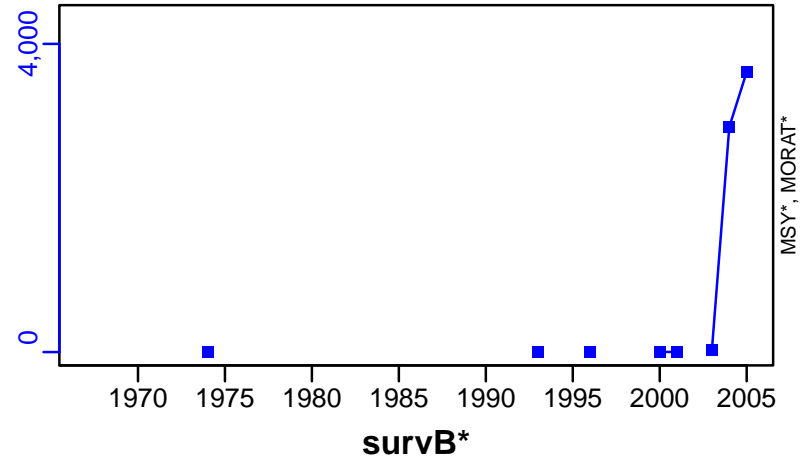


Recruits*



Winter skate Gulf of Maine / Cape Hatteras [WSKAT5YCHATT]

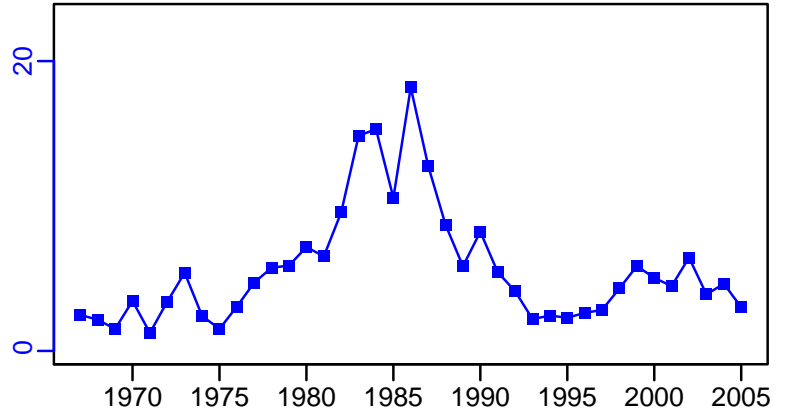
TC-MT, TL*, RecC* (1967-2005-SOSEBEE)



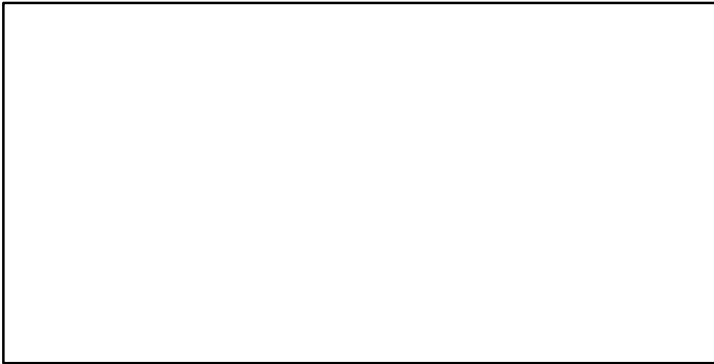
TAC*, Cpair*, Cadv*



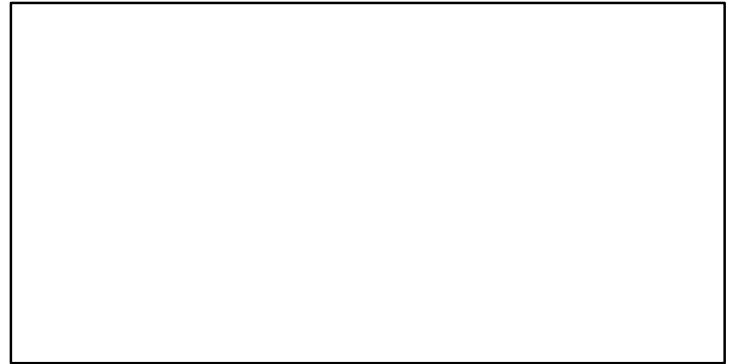
CPUE-kgpertow (1967-2005-SOSEBEE)



EFFORT*



CdivMSY*



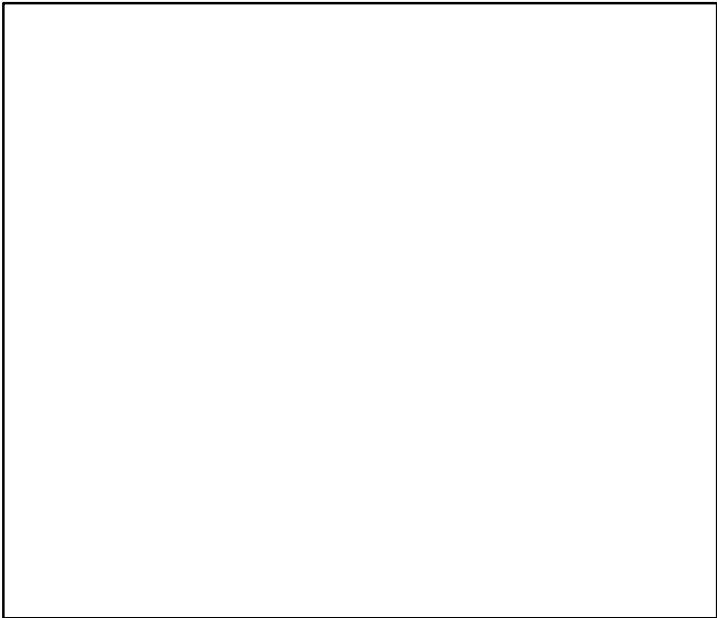
Winter skate Georges Bank-Southern New England [WSKAT5ZSNE]

Metadata	
Scientific Name	Leucoraja ocellata
Current Assess ID	NEFSC-WSKAT5ZSNE-1968-2019-SISIMP2021-2
Area	Georges Bank-Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2018, 2019

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2019	10,200		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

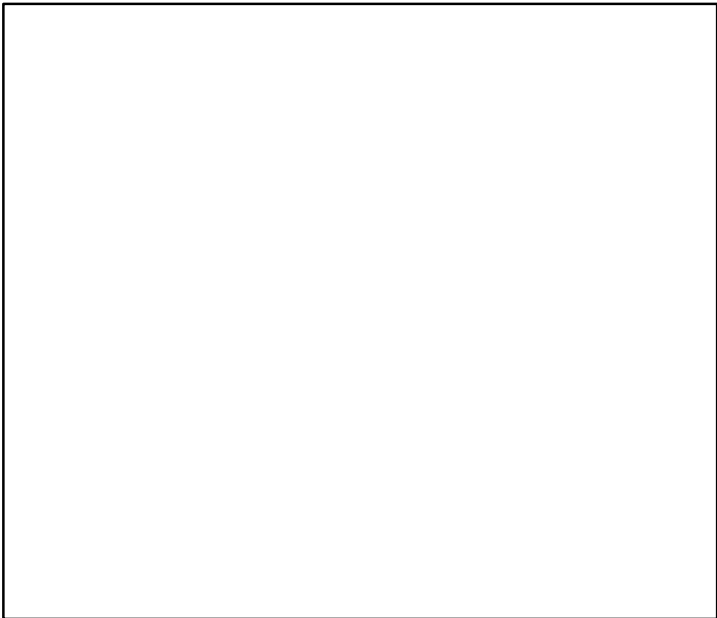
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year	◆ End Year	* No Data
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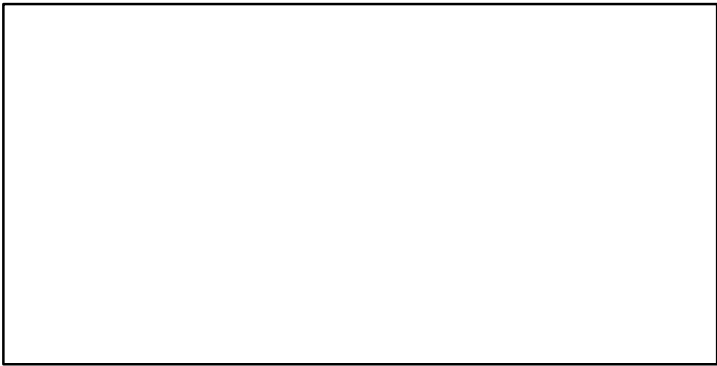
TB*



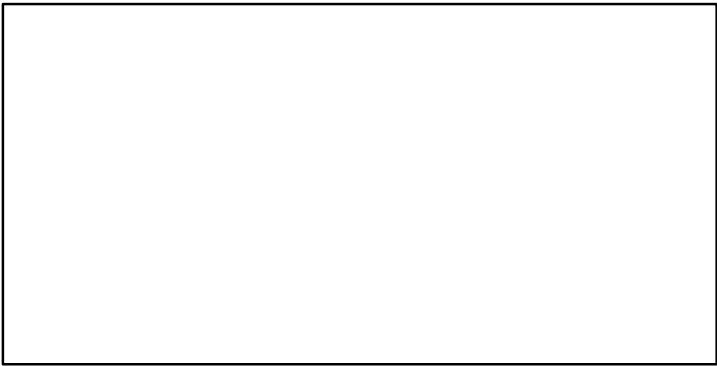
SSB*



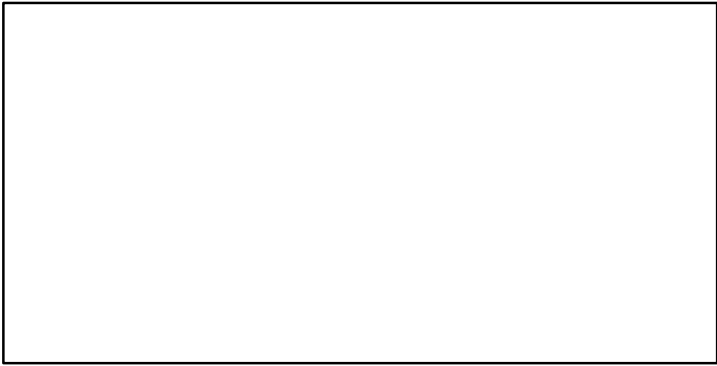
TN *



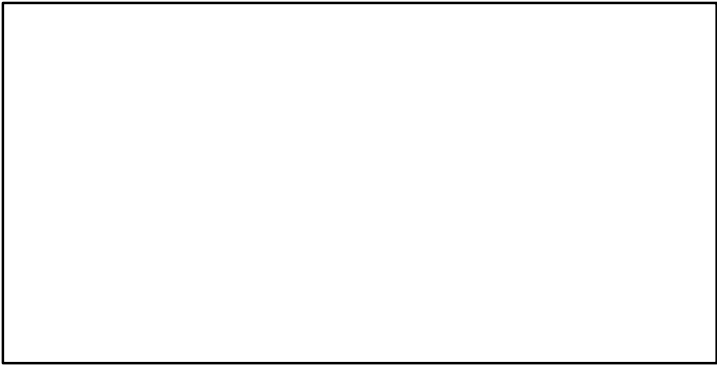
F*



ER*



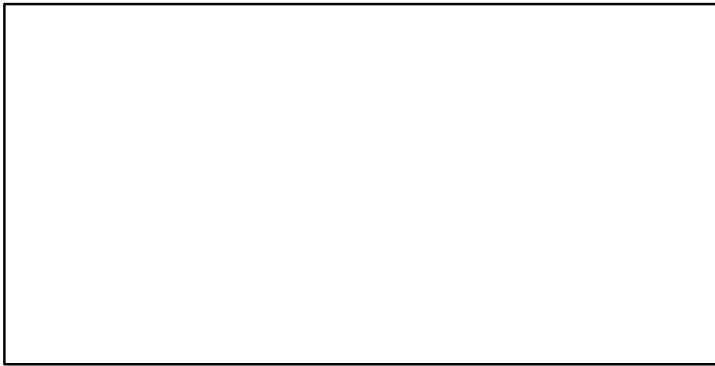
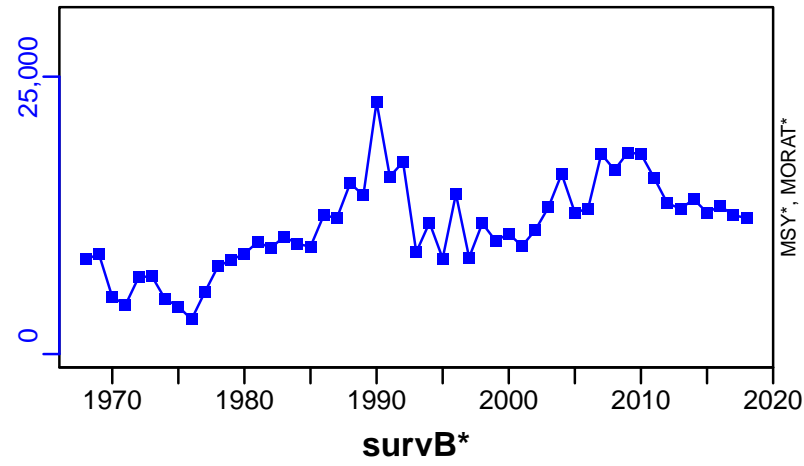
Recruits*



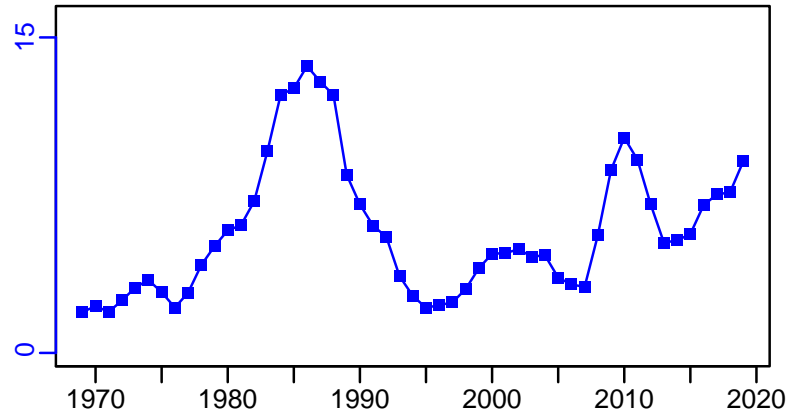
Winter skate Georges Bank–Southern New England [WSKAT5ZSNE]

TC–MT, TL*, RecC* (1968–2019–SISIMP2021–2)

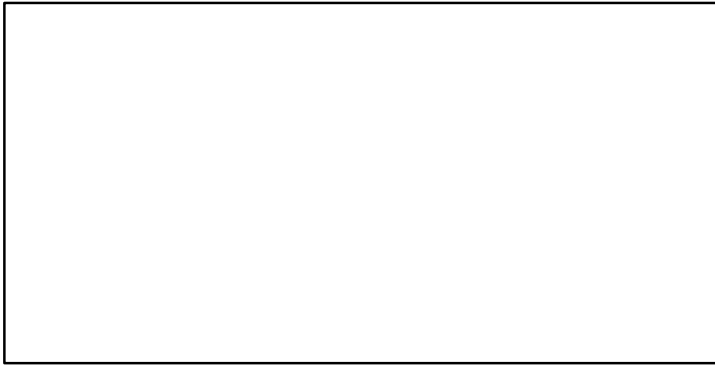
TAC*, Cpair*, Cadv*



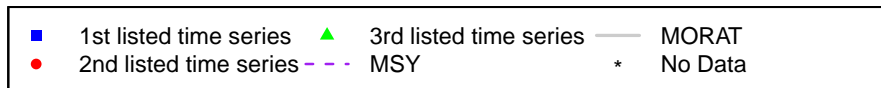
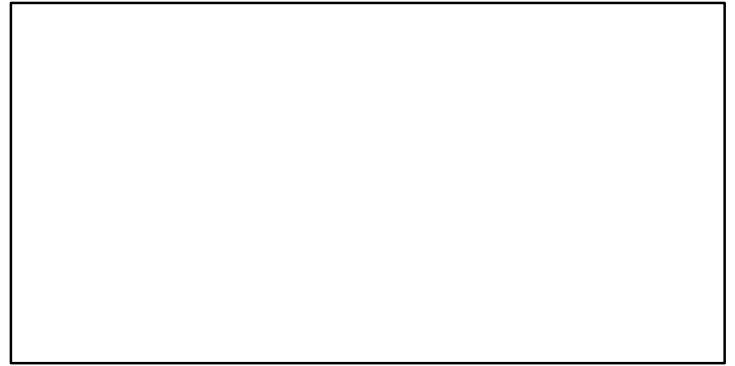
CPUE–index (1968–2019–SISIMP2021–2)



EFFORT*



CdivMSY*



Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

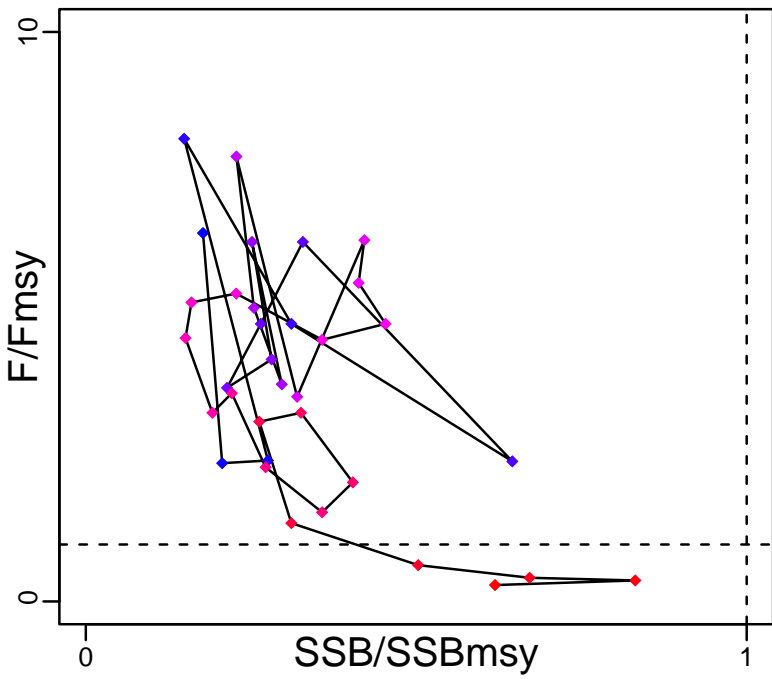
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLCCODGOM-1935-2019-SISIMP2021-2
Area	Cape Cod / Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2019, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2019	3440
Fmsy	Fmsy-1/yr	2019	0.32
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2019	1140
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2019	1720
Flim	Flim-1/yr	2019	0.32
ERlim	-	-	-

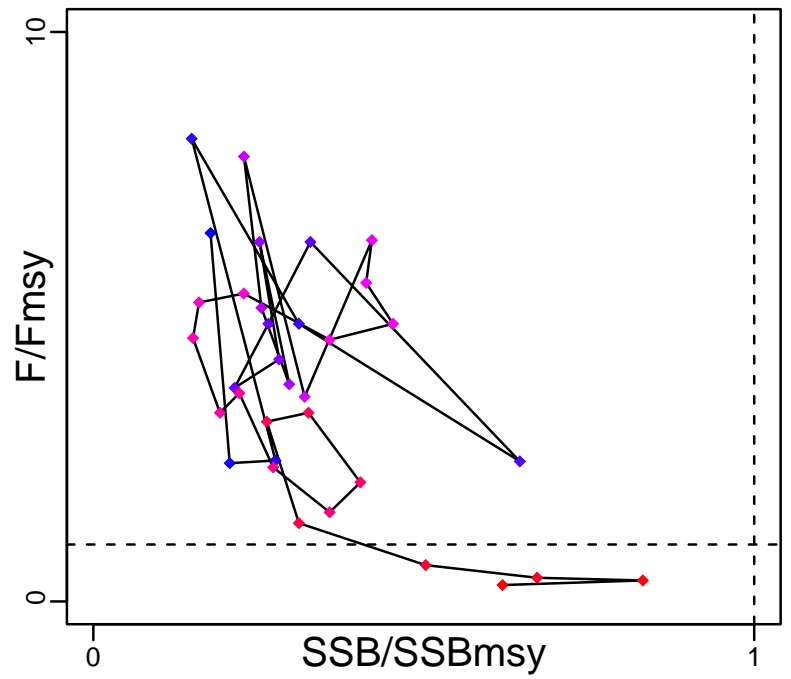
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2019	2130	-	-
TN	TN-E00	2008	16,900,000	-	-
R	R-E00	2019	5,830,000	-	1
F	F-1/yr	2019	0.092	-	-
ER	ER-ratio	2008	0.142	-	-
TC	TC-MT	2019	271		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2019	0.619		
F/Fmsy	F-1/yr/Fmsy-1/yr	2019	0.288		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

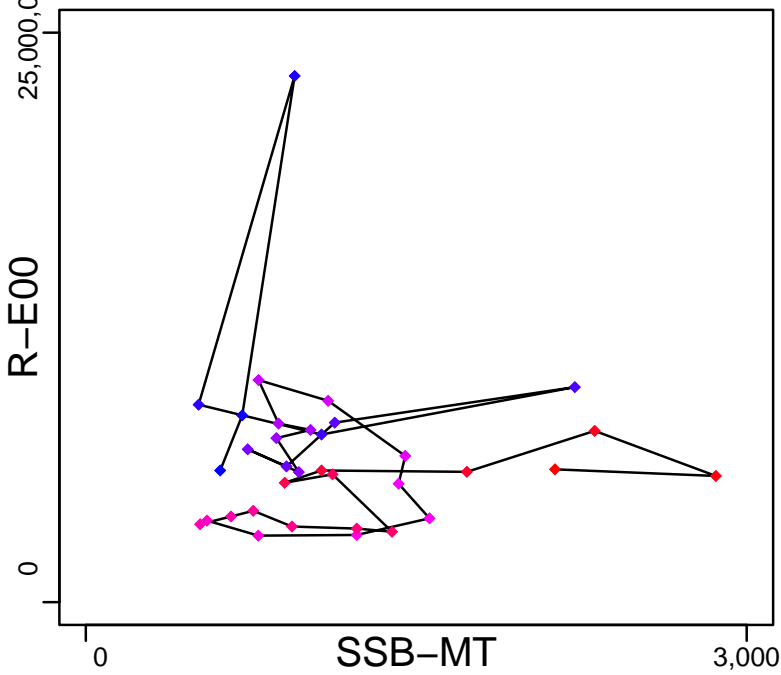
Kobe MSYpref (1935–2019–SISIMP2021–2)



Kobe MGTpref (1935–2019–SISIMP2021–2)



Spawner Recruit (1935–2019–SISIMP2021–2)



Production*



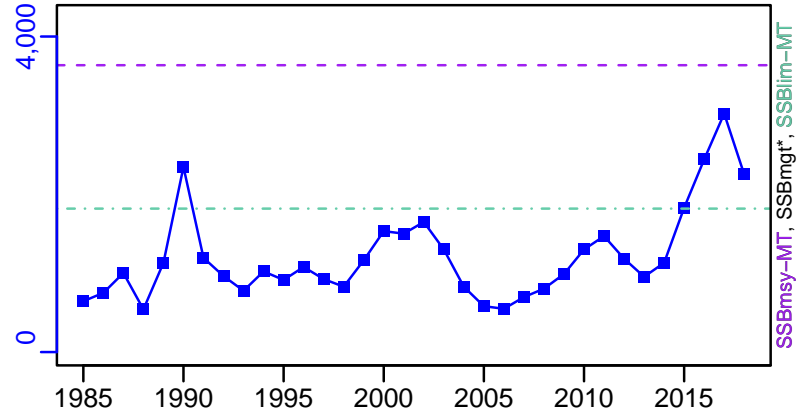
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

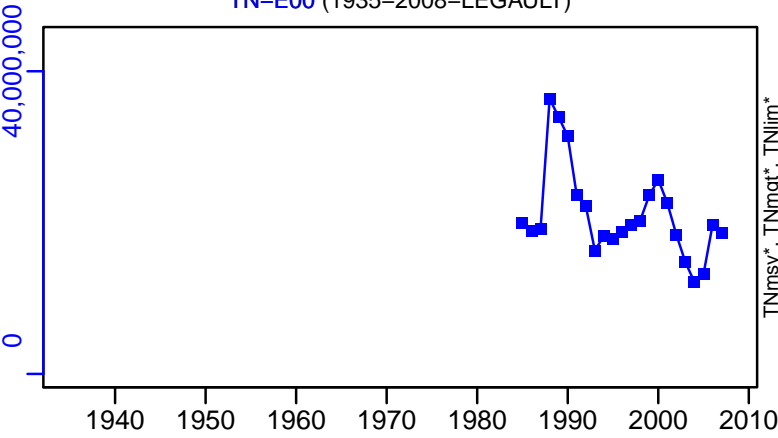
TB*



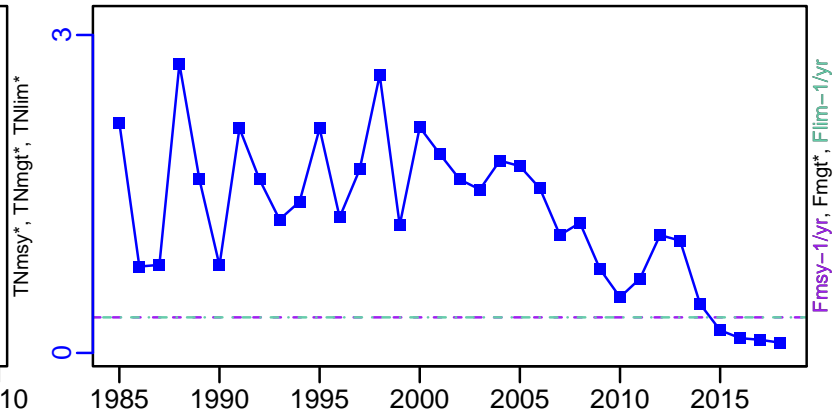
SSB-MT (1935–2019–SISIMP2021–2)



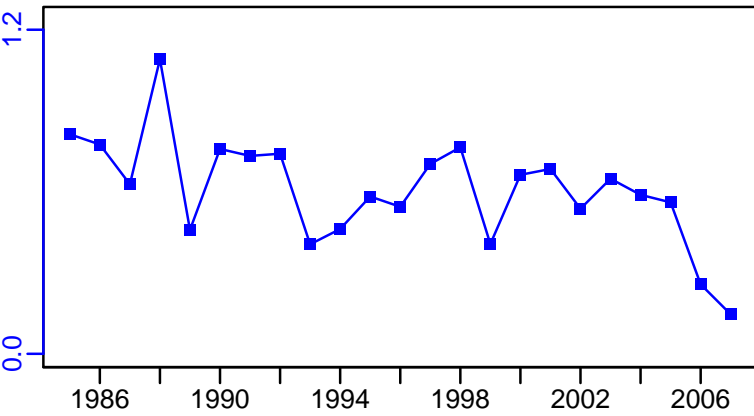
TN-E00 (1935–2008–LEGAULT)



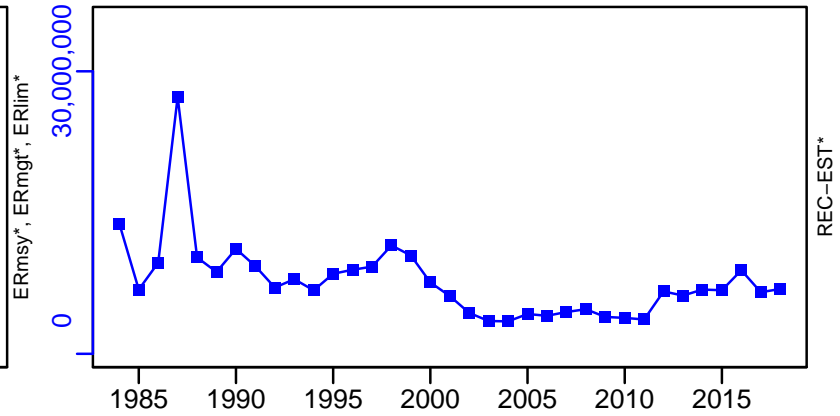
F-1/yr (1935–2019–SISIMP2021–2)



ER-ratio (1935–2008–LEGAULT)



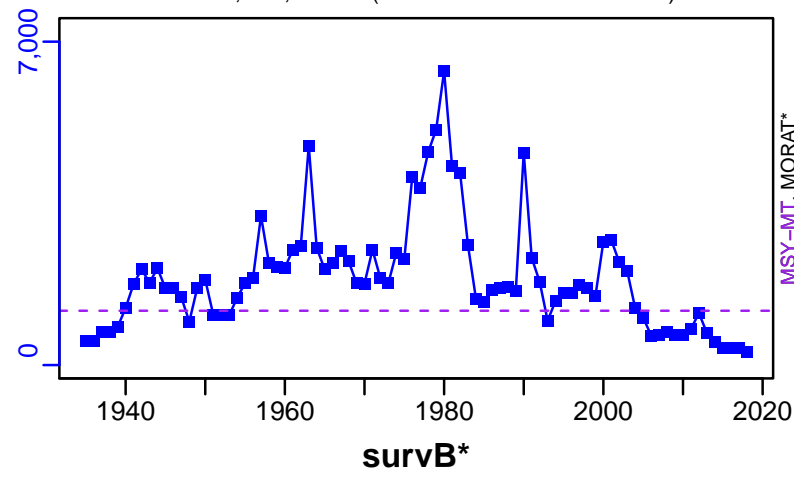
R-E00 (1935–2019–SISIMP2021–2)



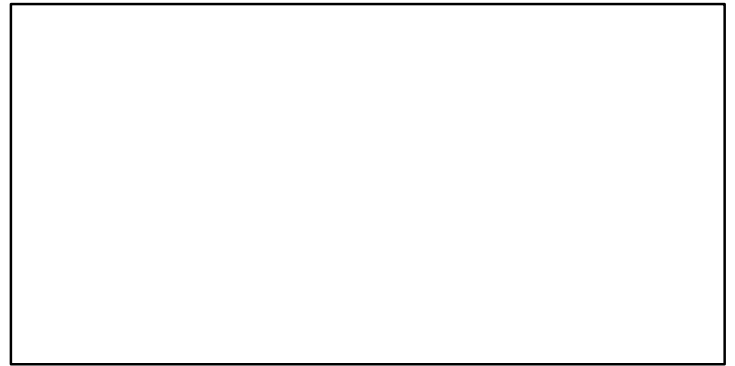
Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

TC-MT, TL*, RecC* (1935-2019-SISIMP2021-2)

TAC*, Cpair*, Cadv*



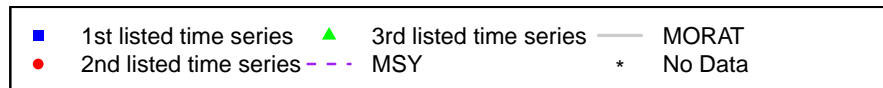
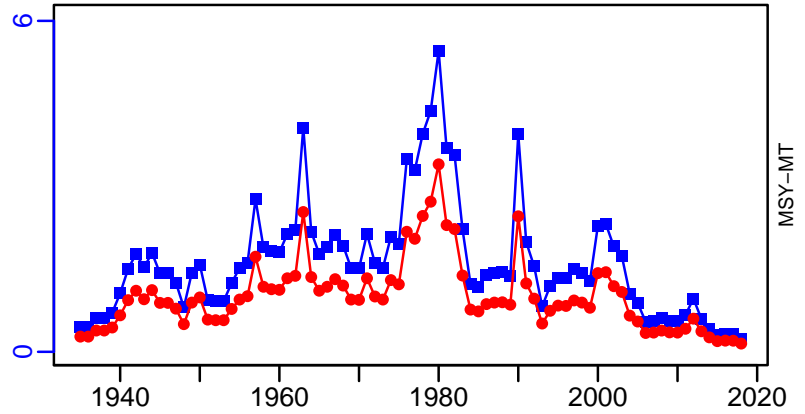
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1935-2019-SISIMP2021-2)



Yellowtail flounder Georges Bank [YELLGB]

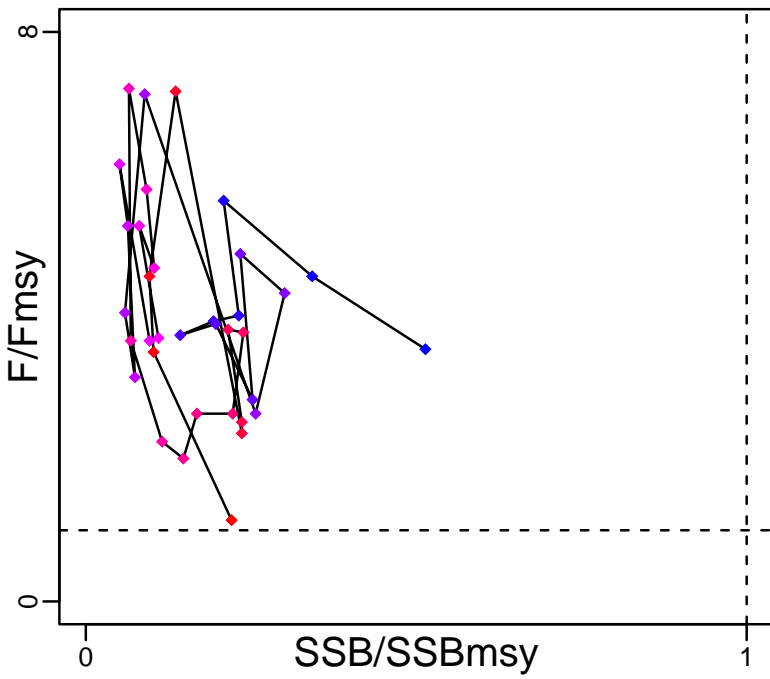
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLGB-1935-2021-SISIMP2021-2
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2015, 2016, 2017, 2017, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2008	43,200
Fmsy	Fmsy-pr-1/yr	2008	0.254
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2008	9400
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

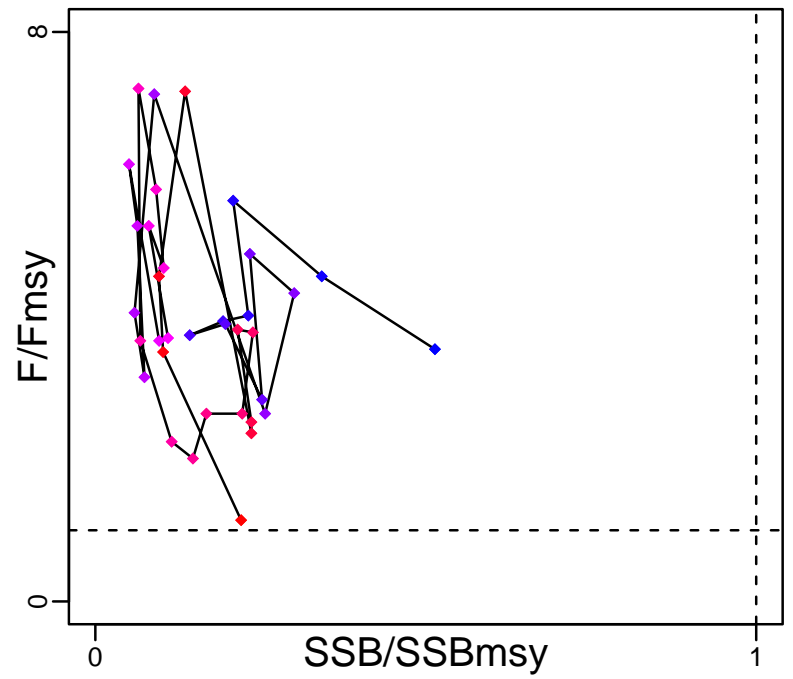
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	20,800	-	-
SSB	SSB-MT	2008	9530	-	2+
TN	-	-	-	-	-
R	R-E00	2008	19,100,000	-	1
F	F-1/yr	2008	0.29	-	4+
ER	ER-ratio	2008	0.118	-	-
TC	TC-MT	2021	14		
TL	TL-MT	2015	71		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.221		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2008	1.142		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Georges Bank [YELLGB]

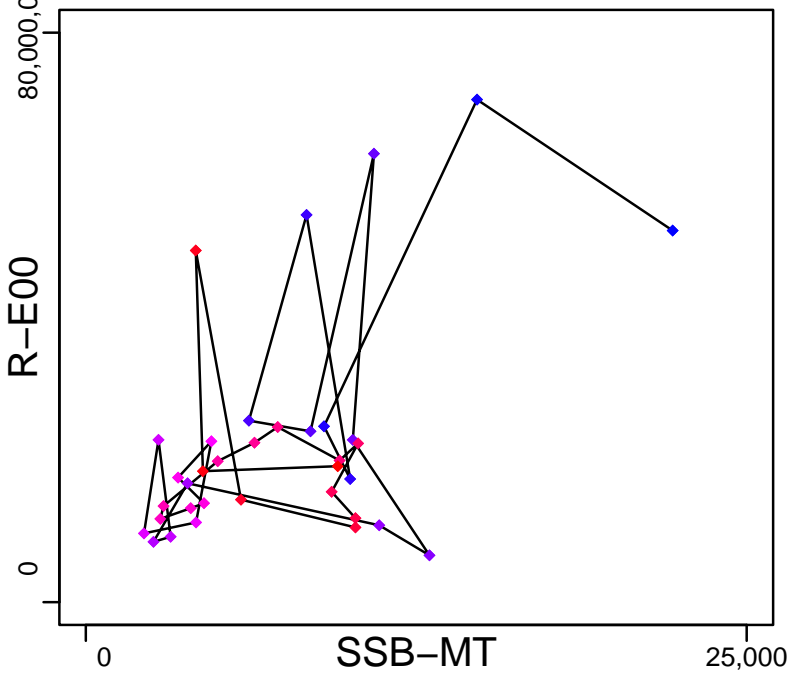
Kobe MSYpref (1935–2008–BAUM)



Kobe MGTpref (1935–2008–BAUM)



Spawner Recruit (1935–2008–BAUM)



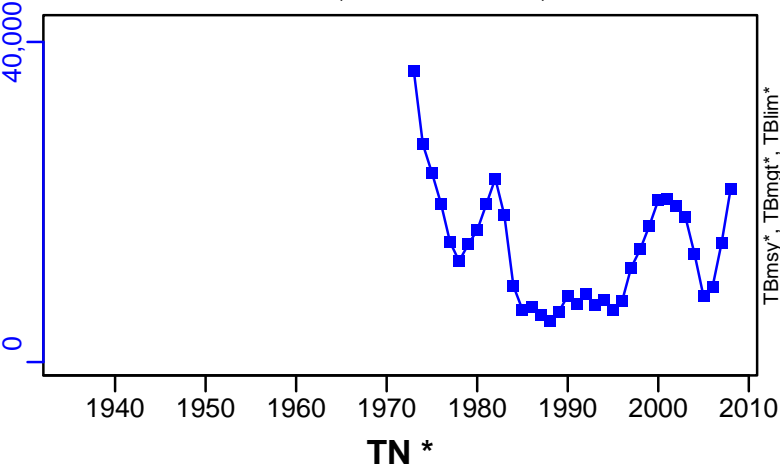
Production*



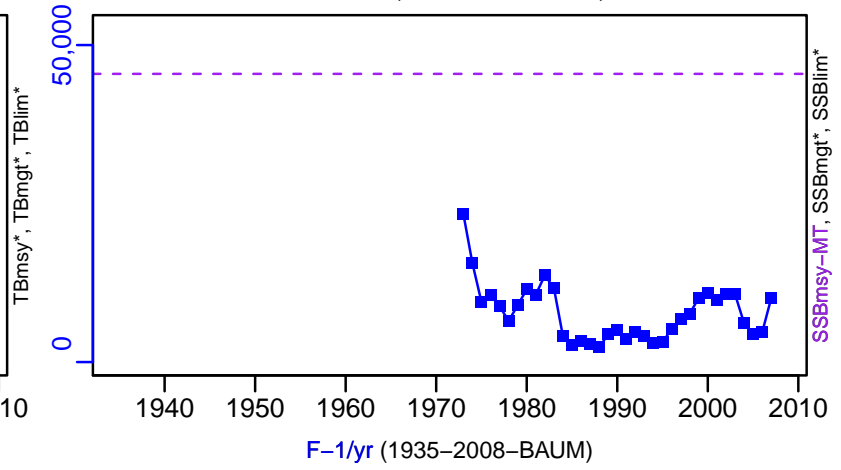
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Georges Bank [YELLGB]

TB-MT (1935-2008-BAUM)



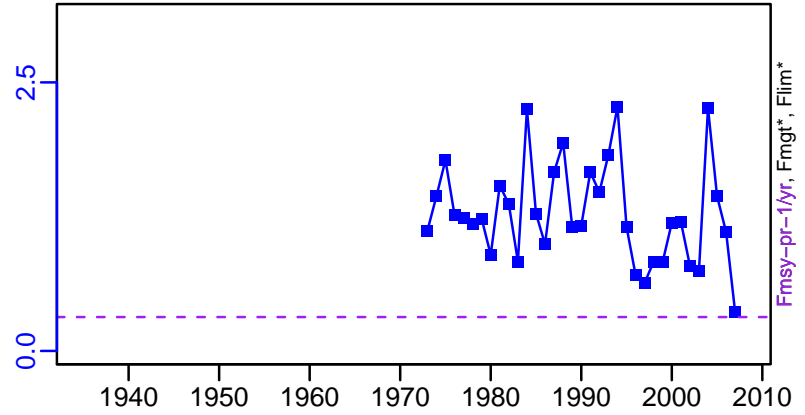
SSB-MT (1935-2008-BAUM)



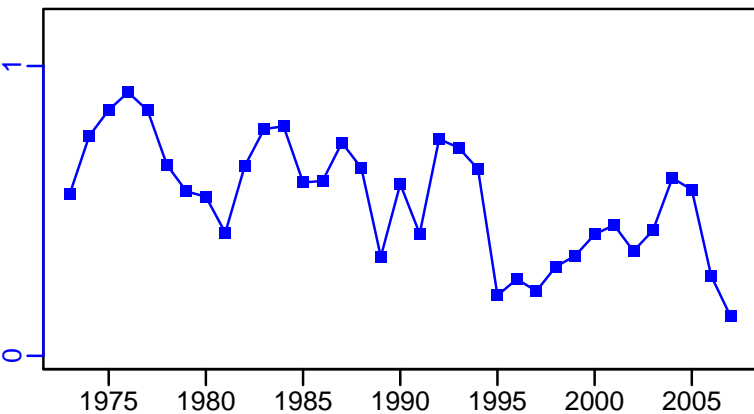
TN *



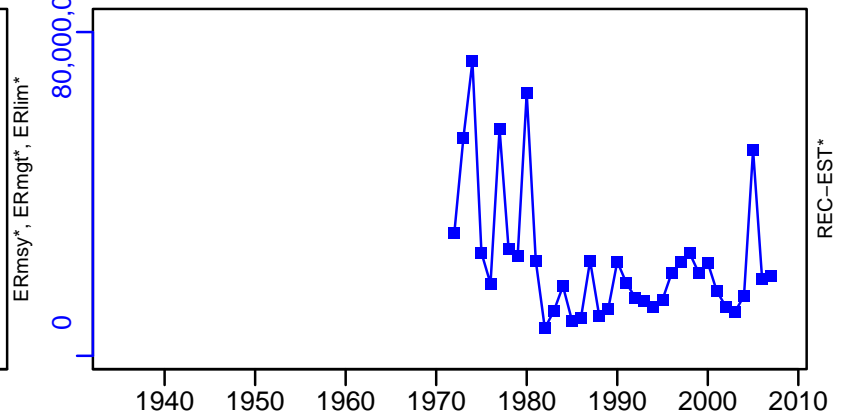
F-1/yr (1935-2008-BAUM)



ER-ratio (1935-2008-BAUM)

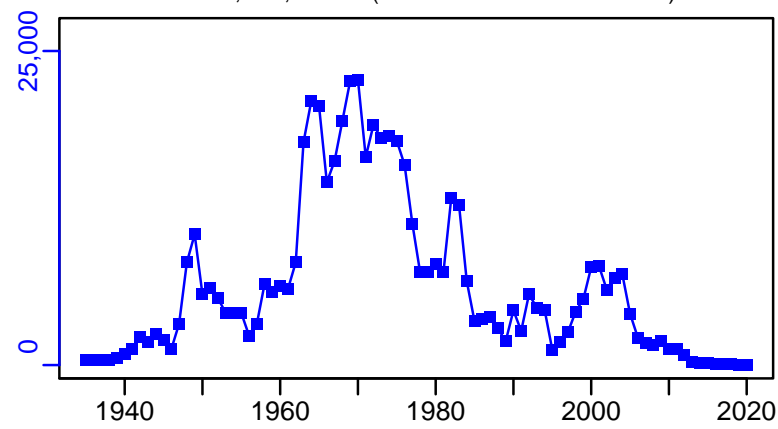


R-E00 (1935-2008-BAUM)

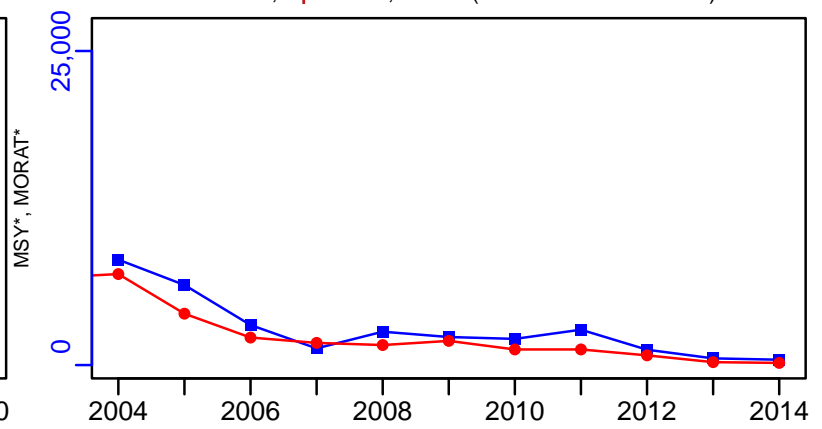


Yellowtail flounder Georges Bank [YELLGB]

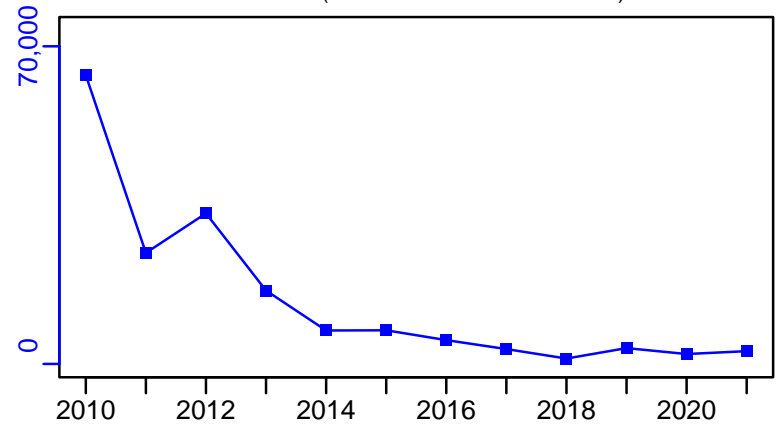
TC-MT, TL*, RecC* (1935-2021-SISIMP2021-2)



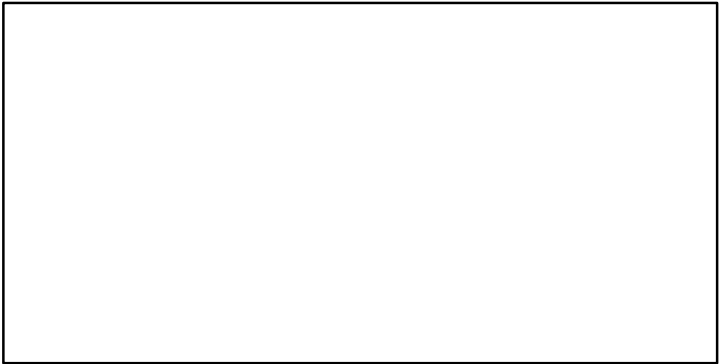
TAC-MT, Cpair-MT, Cadv* (1935-2015-WATSON)



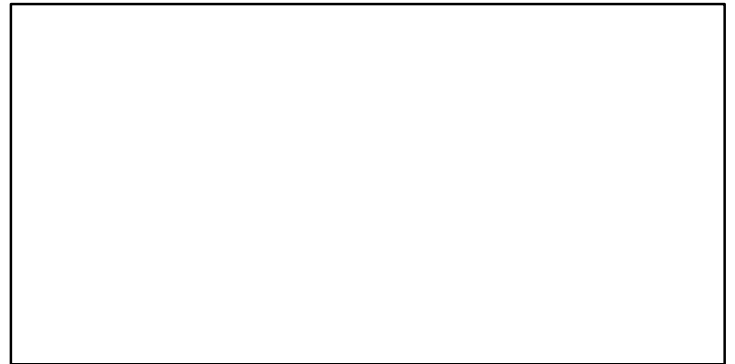
survB-MT (1935-2021-SISIMP2021-2)



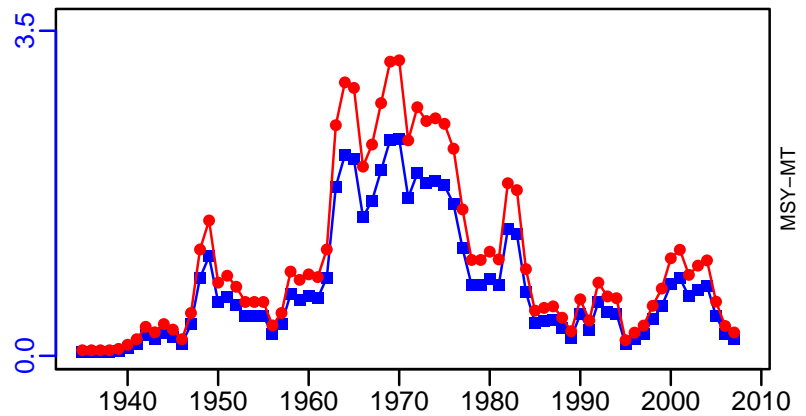
EFFORT*



CPUE*



TC-MT/MSY-MT, CdivMEANC-ratio, (1935-2008-BAUM)



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

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

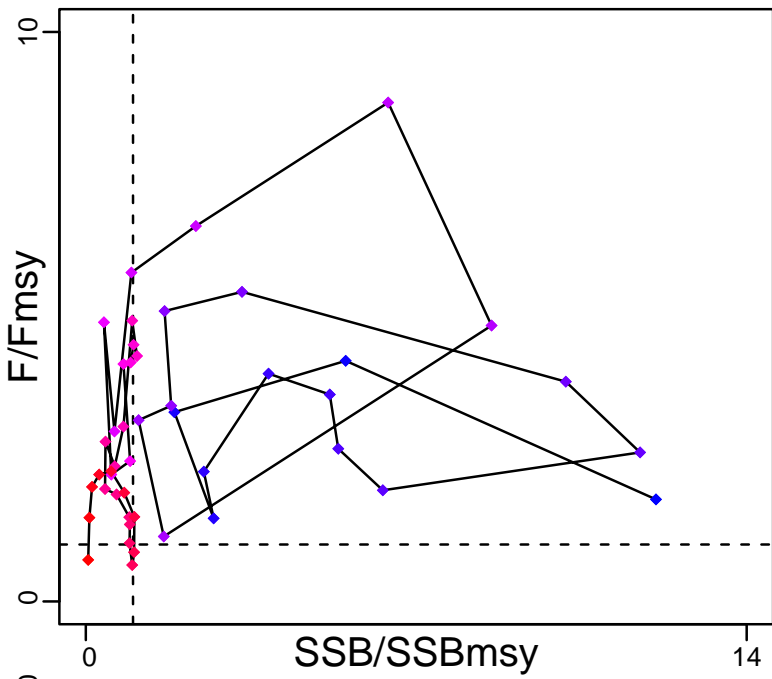
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLSNEMATL-1935-2018-SISIMP2021-2
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2018, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2018	1780
Fmsy	Fmsy-1/yr	2018	0.355
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2018	492
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2018	890
Flim	Flim-1/yr	2018	0.355
ERlim	-	-	-

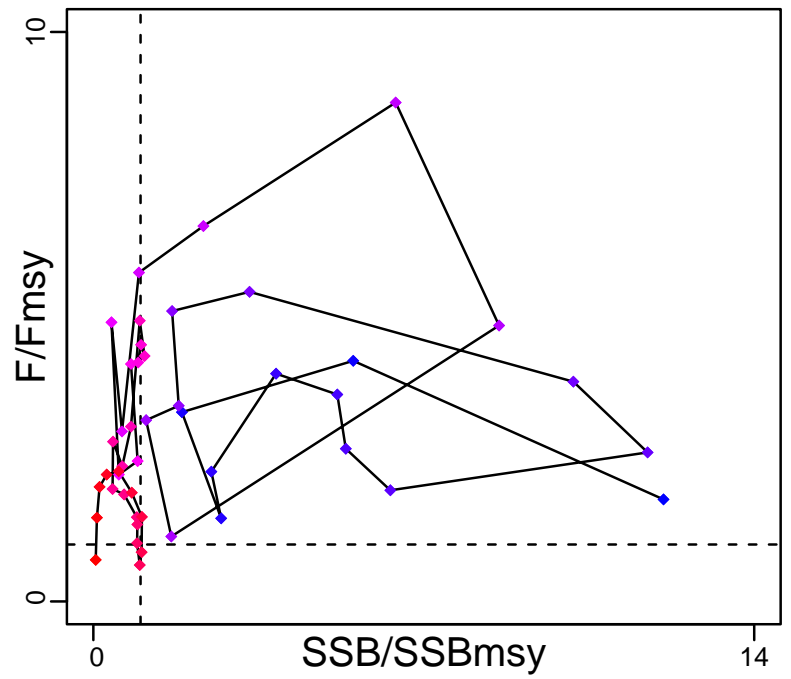
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	5310	-	-
SSB	SSB-MT	2018	90	-	-
TN	-	-	-	-	-
R	R-E00	2018	905,000	-	1
F	F-1/yr	2018	0.259	-	-
ER	ER-calc-ratio	2011	0.073	-	-
TC	TC-MT	2018	19		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.051		
F/Fmsy	F-1/yr/Fmsy-1/yr	2018	0.73		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

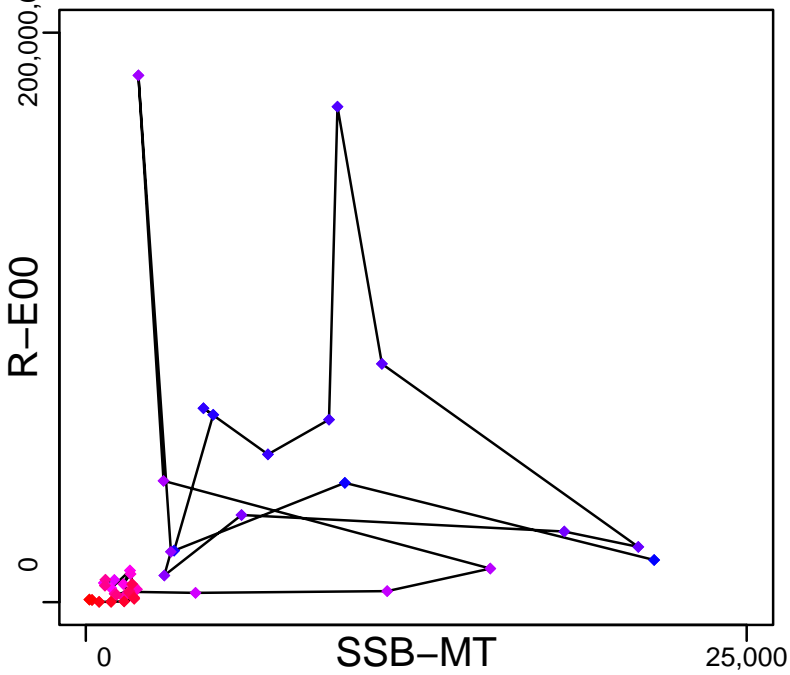
Kobe MSYpref (1935–2018–SISIMP2021–2)



Kobe MGTpref (1935–2018–SISIMP2021–2)



Spawner Recruit (1935–2018–SISIMP2021–2)



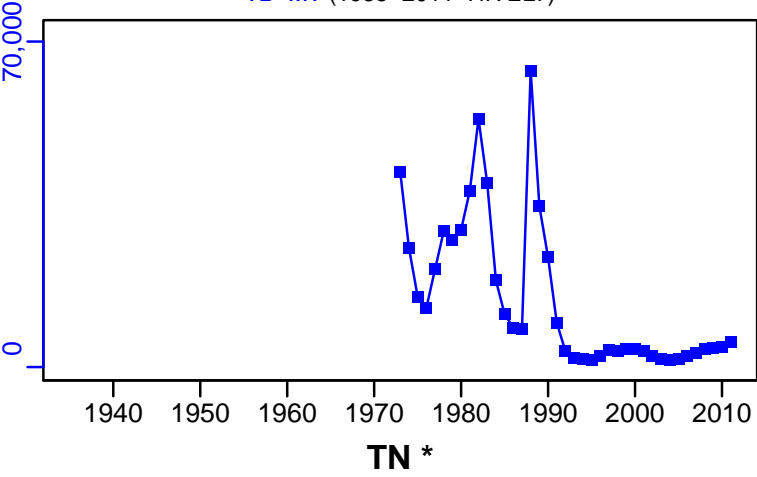
Production*



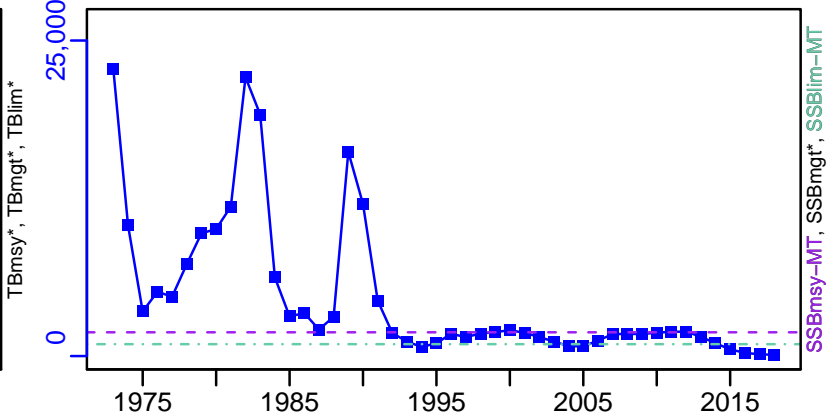
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

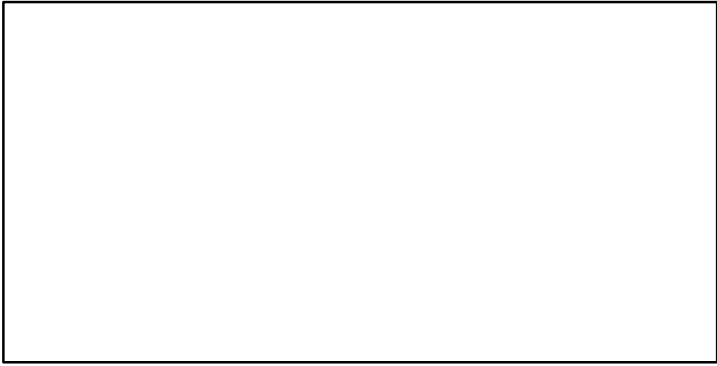
TB-MT (1935-2011-HIVELY)



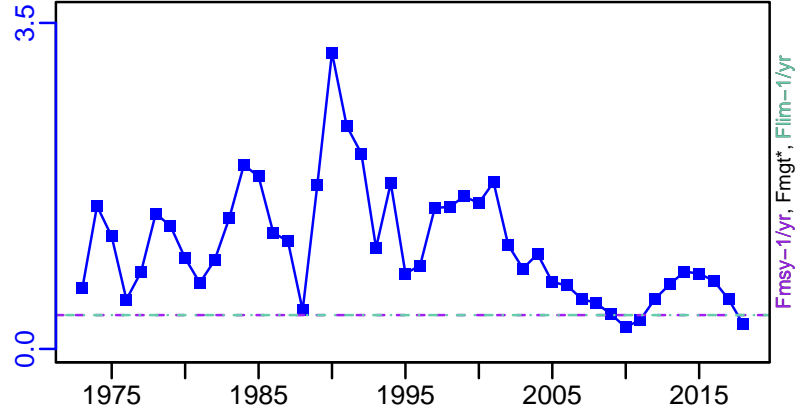
SSB-MT (1935-2018-SISIMP2021-2)



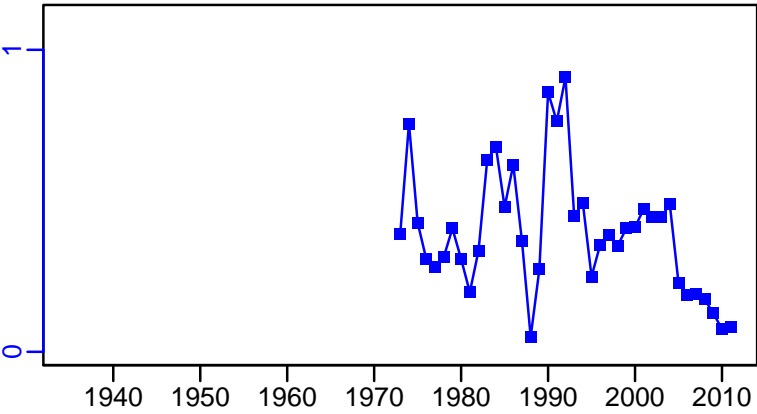
TN *



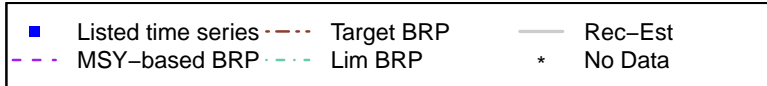
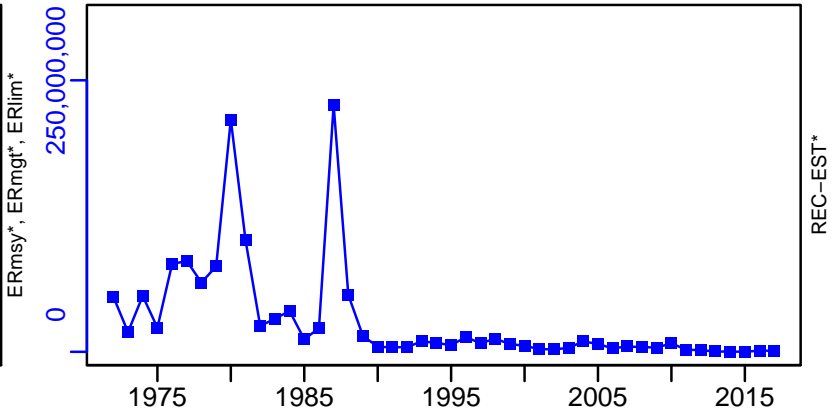
F-1/yr (1935-2018-SISIMP2021-2)



ER-calc-ratio (1935-2011-HIVELY)



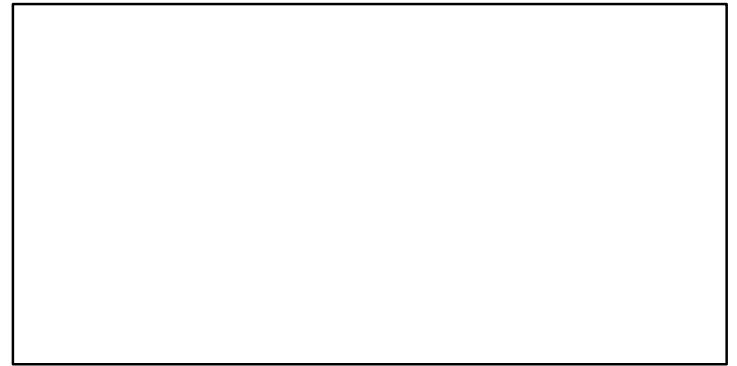
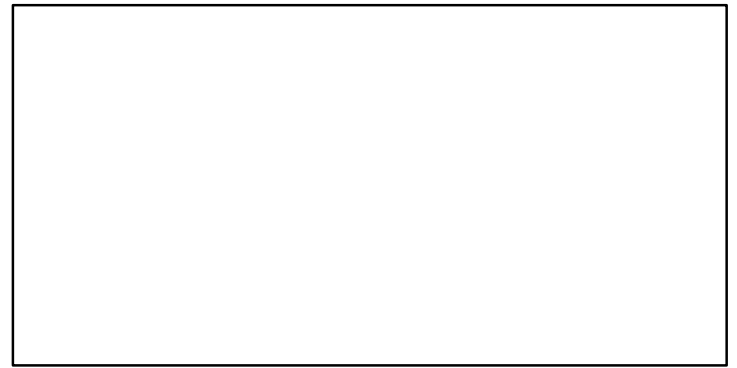
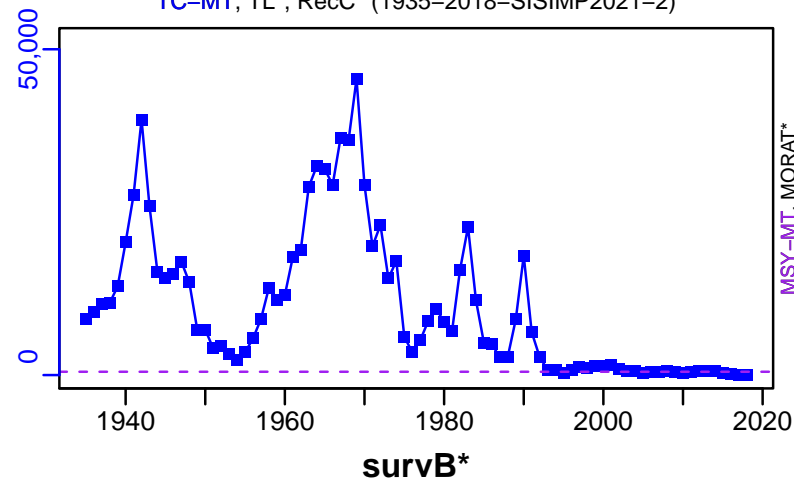
R-E00 (1935-2018-SISIMP2021-2)



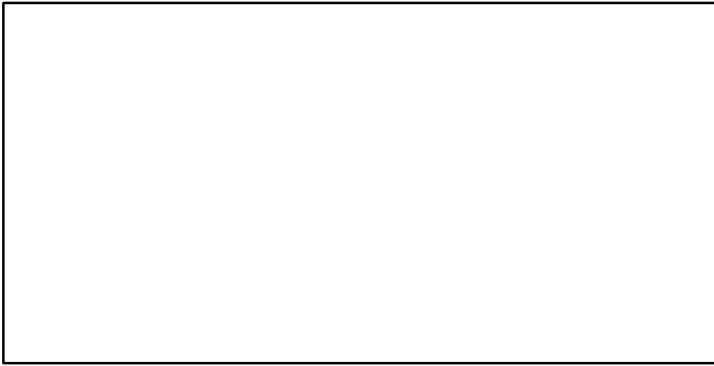
Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

TC-MT, TL*, RecC* (1935-2018-SISIMP2021-2)

TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1935-2018-SISIMP2021-2)

