

US East Coast Stocks

v4.495 (Apr-21-2021)

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. LOBSTERGB [American lobster Georges Bank]	TB SSB	ER F	TB SSB	ER F	
19. LOBSTERGOM [American lobster Gulf of Maine]	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. MACK5YCHATT [Atlantic mackerel Gulf of Maine / Cape Hatteras]	TB SSB	ER F	TB SSB	ER F	
23. MENATLAN [Atlantic menhaden Atlantic]	TB SSB	ER F	TB SSB	ER F	
24. MONKGOMNGB [Monkfish Gulf of Maine / Northern Georges Bank]	TB SSB	ER F	TB SSB	ER F	
25. MONKSGBMATL [Monkfish Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F	
26. OPOUTNWATLC [Ocean pout Northwestern Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
27. PANDALGOM [Northern shrimp Gulf of Maine]	TB SSB	ER F	TB SSB	ER F	
28. POLL5YZ [Pollock Gulf of Maine / Georges Bank]	TB SSB	ER F	TB SSB	ER F	
29. QUAHATLC [Ocean quahog Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
30. RDEEPCRABNWATL [Red deepsea crab Northwestern Atlantic]	TB SSB	ER F	TB SSB	ER F	
31. RHAKEGOMNGB [Red hake Gulf of Maine / Northern Georges Bank]	TB SSB	ER F	TB SSB	ER F	
32. RHAKESGBMATL [Red hake Southern Georges Bank / Mid-Atlantic]	TB SSB	ER F	TB SSB	ER F	
33. RSKATMATLC [Rosette skate Mid-Atlantic Coast]	TB SSB	ER F	TB SSB	ER F	
34. SCALL5ZMAB [Sea scallop Georges Bank and Mid-Atlantic Bight]	TB SSB	ER F	TB SSB	ER F	
35. SCHHEADATL [Scalloped hammerhead Atlantic]	TB SSB	ER F	TB SSB	ER F	

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

Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

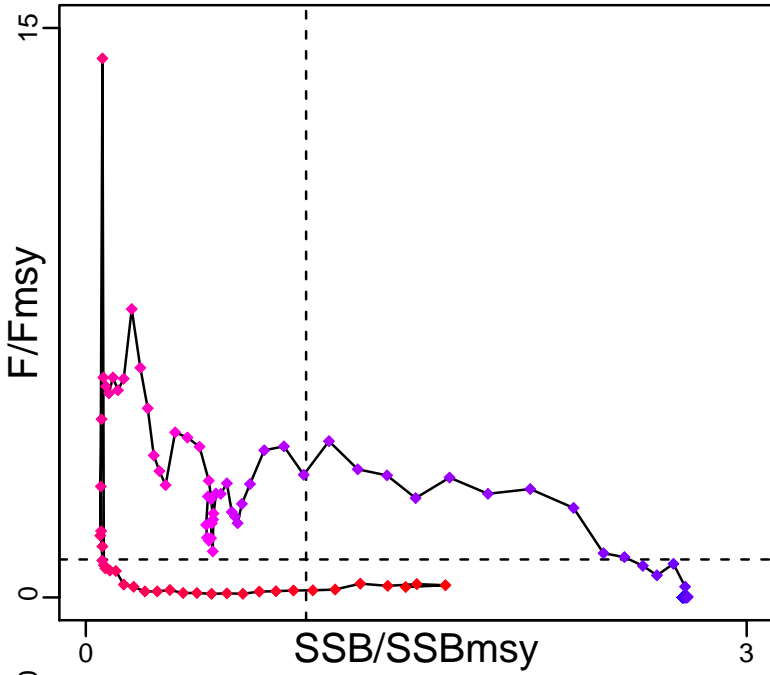
Metadata	
Scientific Name	Sebastes fasciatus
Current Assess ID	NEFSC-ACADREDGOMGB-1912-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2007, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	247,918
Fmsy	Fmsy-1/yr	2016	0.04
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	9318
M	M-1/yr	2007	0.05
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	123,959
Flim	Flim-1/yr	2016	0.04
ERlim	-	-	-

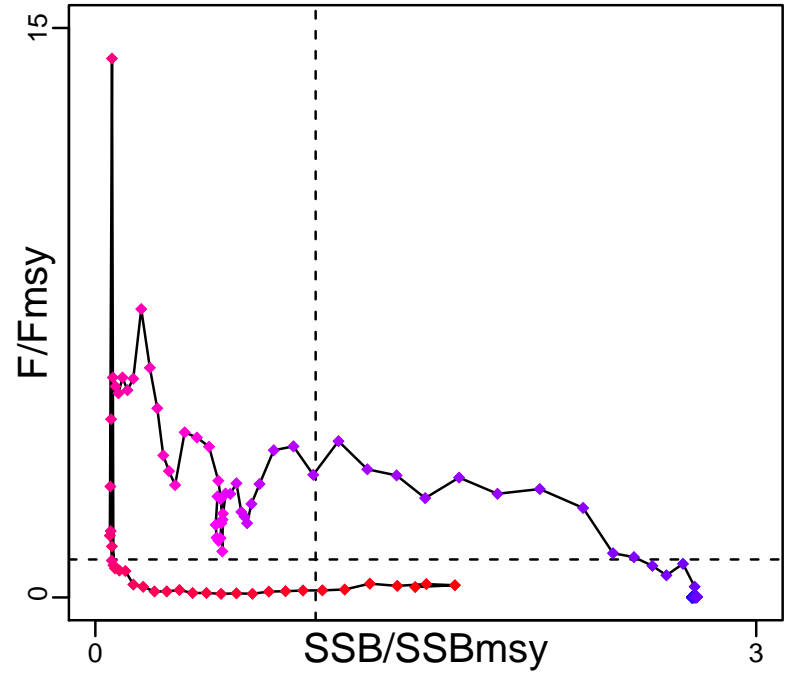
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	359,970	-	-
TN	-	-	-	-	-
R	R-E00	2016	79,711,000	-	1
F	F-1/yr	2016	0.011	-	-
ER	ER-ratio	2007	0.002	-	-
TC	TC-MT	2016	3,925,000		
TL	TL-MT	2007	787		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	1.452		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.275		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

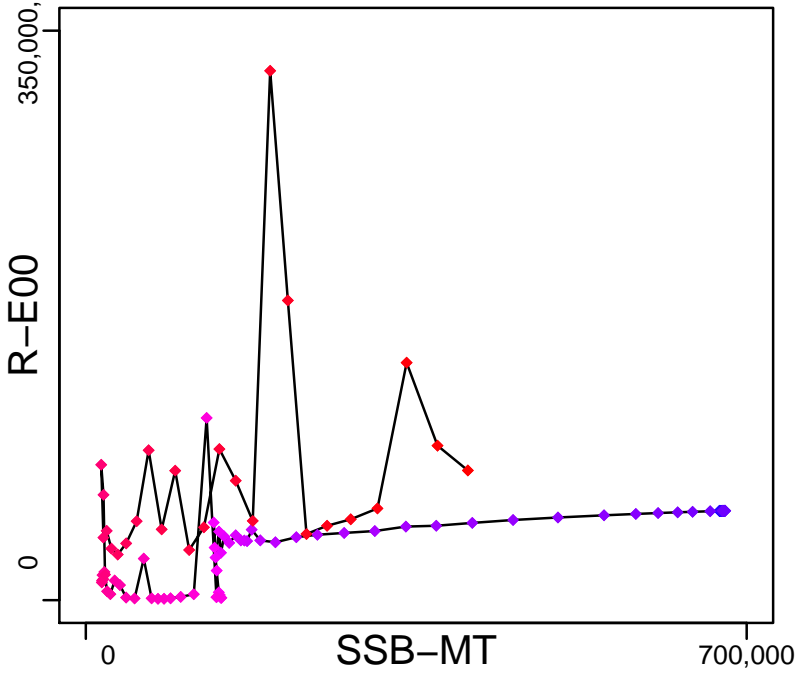
Kobe MSYpref (1912–2016–SISIMP2021)



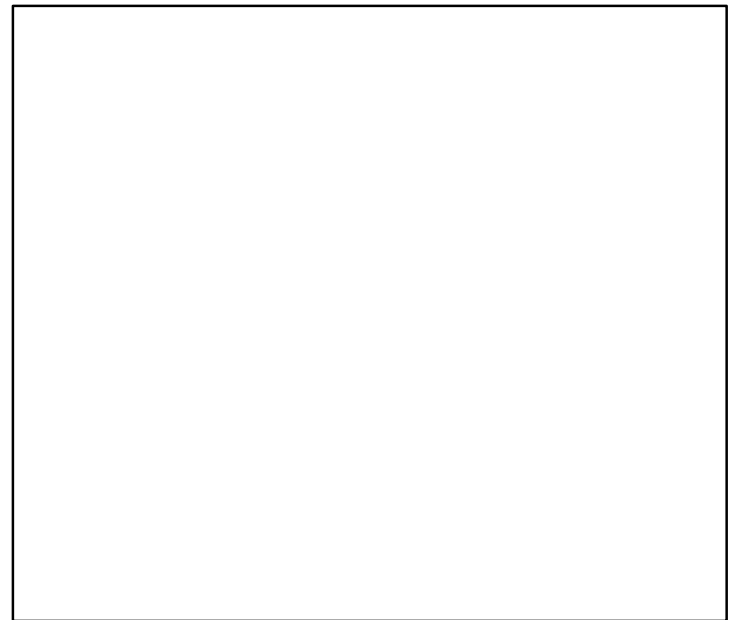
Kobe MGTpref (1912–2016–SISIMP2021)



Spawner Recruit (1912–2016–SISIMP2021)



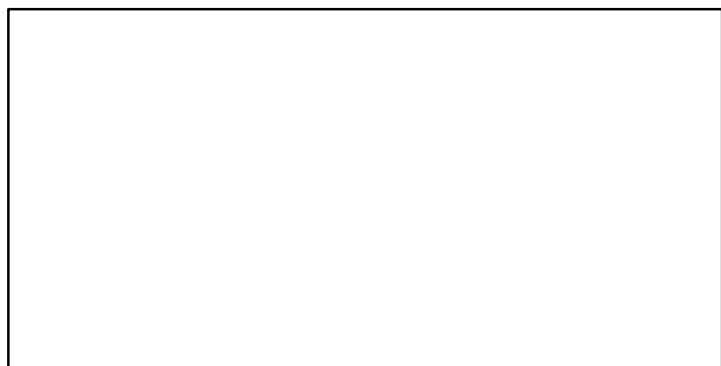
Production*



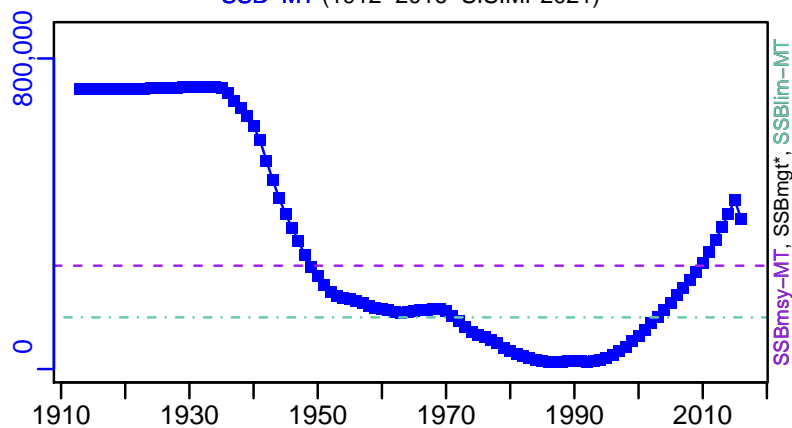
◆ Start Year ◆ End Year * No Data

Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

TB*



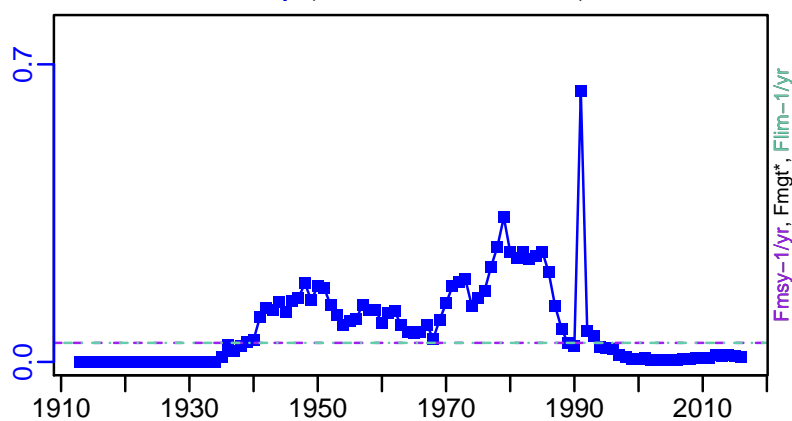
SSB-MT (1912-2016-SISIMP2021)



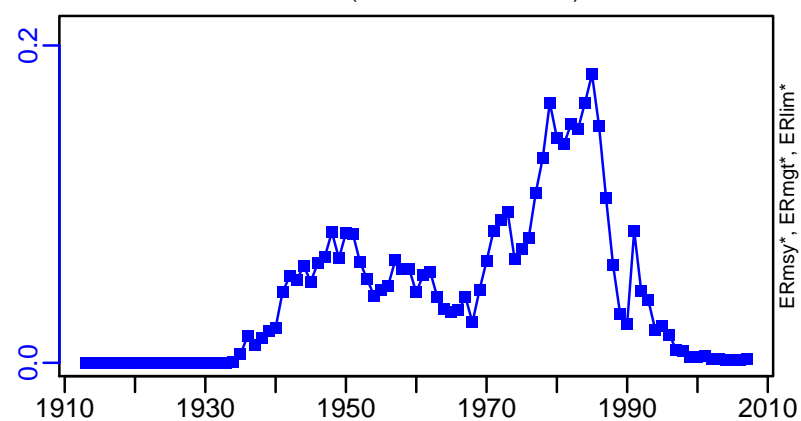
TN *



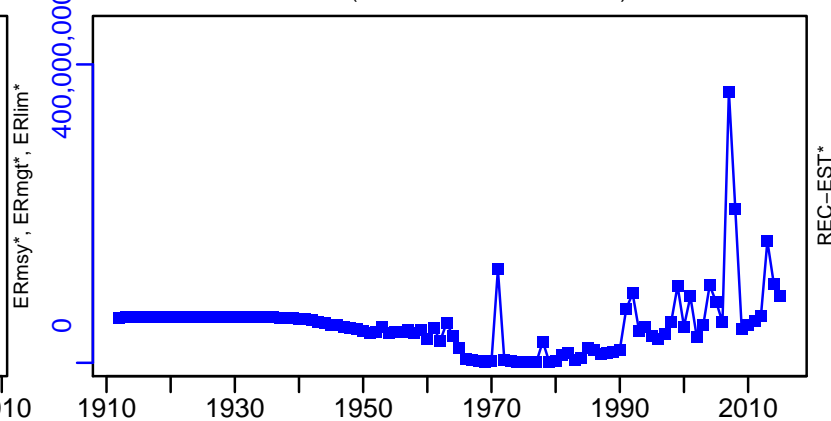
F-1/yr (1912-2016-SISIMP2021)



ER-ratio (1913-2007-MILLER)



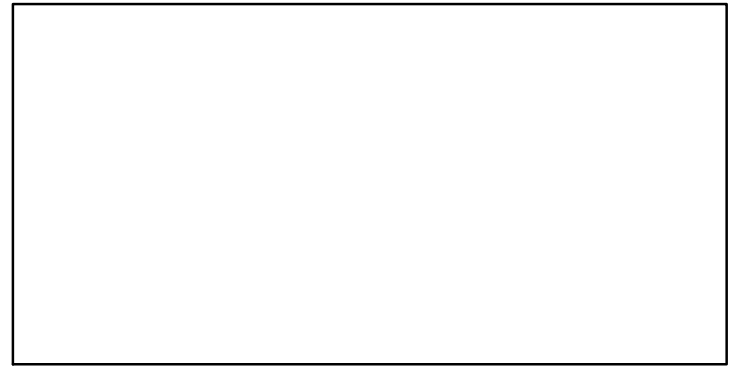
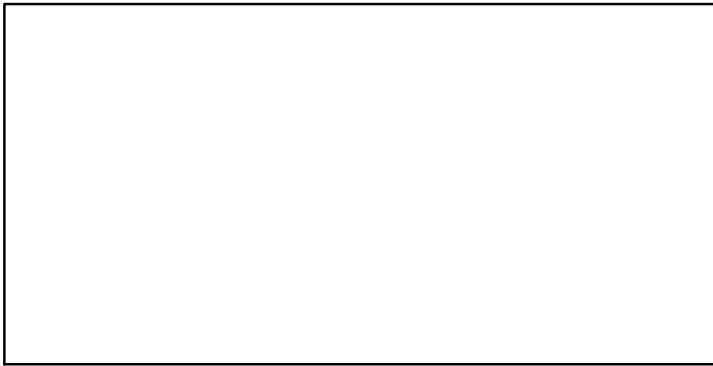
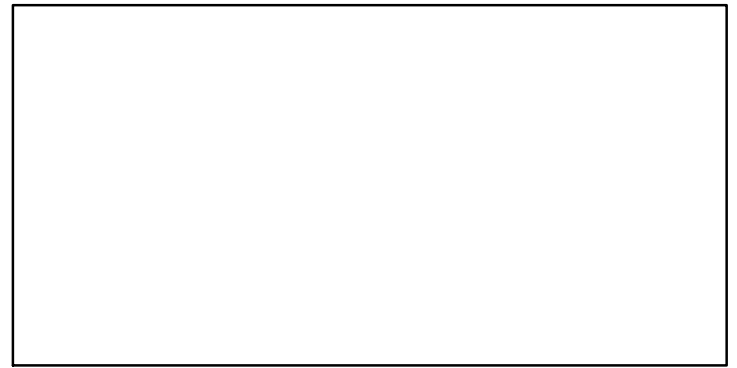
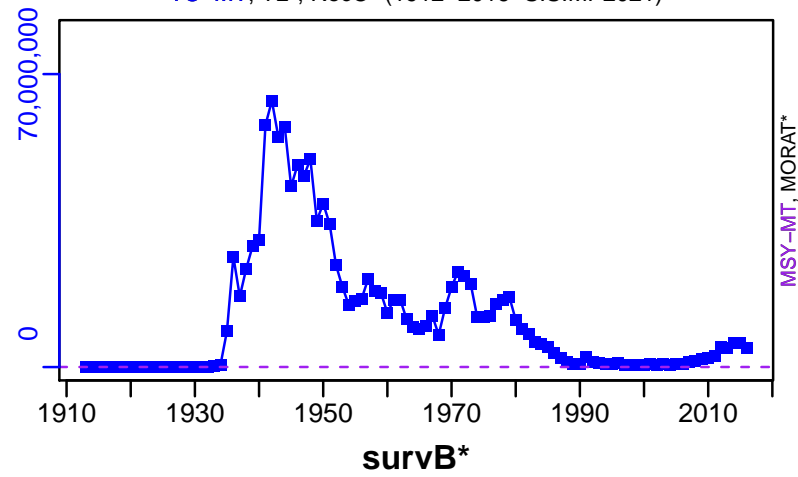
R-E00 (1912-2016-SISIMP2021)



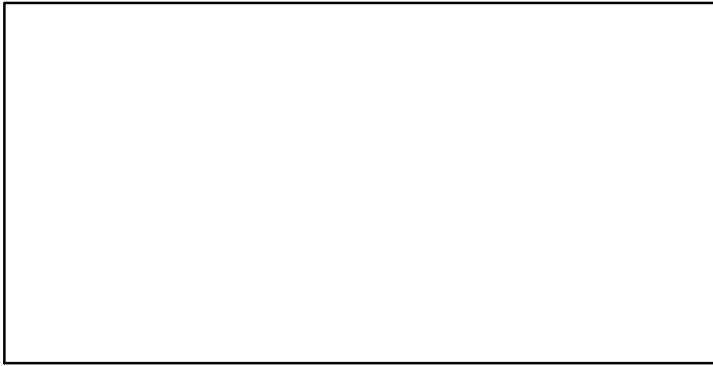
Acadian redfish Gulf of Maine / Georges Bank [ACADREDGOMGB]

TC-MT, TL*, RecC* (1912-2016-SISIMP2021)

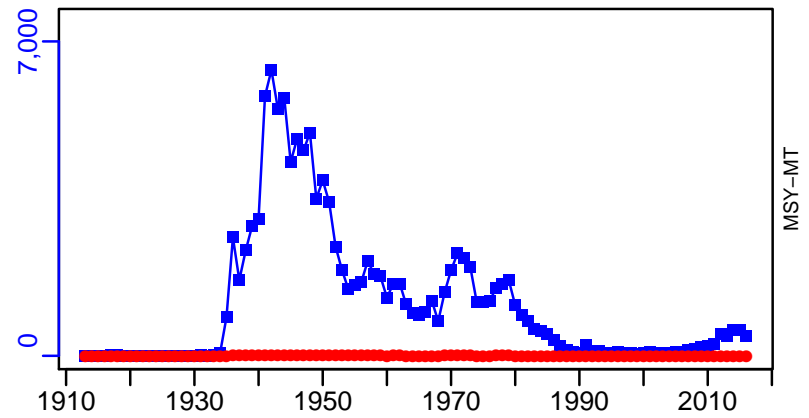
TAC*, Cpair*, Cadv*



EFFORT*



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



American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

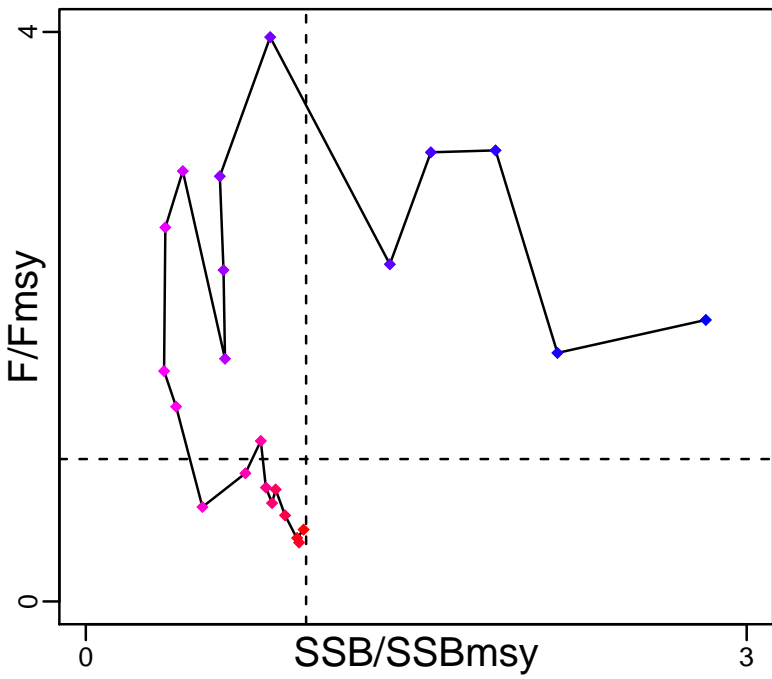
Metadata	
Scientific Name	Hippoglossoides platessoides
Current Assess ID	NEFSC-AMPL5YZ-1979-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	13,503
Fmsy	Fmsy-1/yr	2016	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	2924
M	M-1/yr	2010	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	6751
Flim	Flim-1/yr	2016	0.22
ERlim	-	-	-

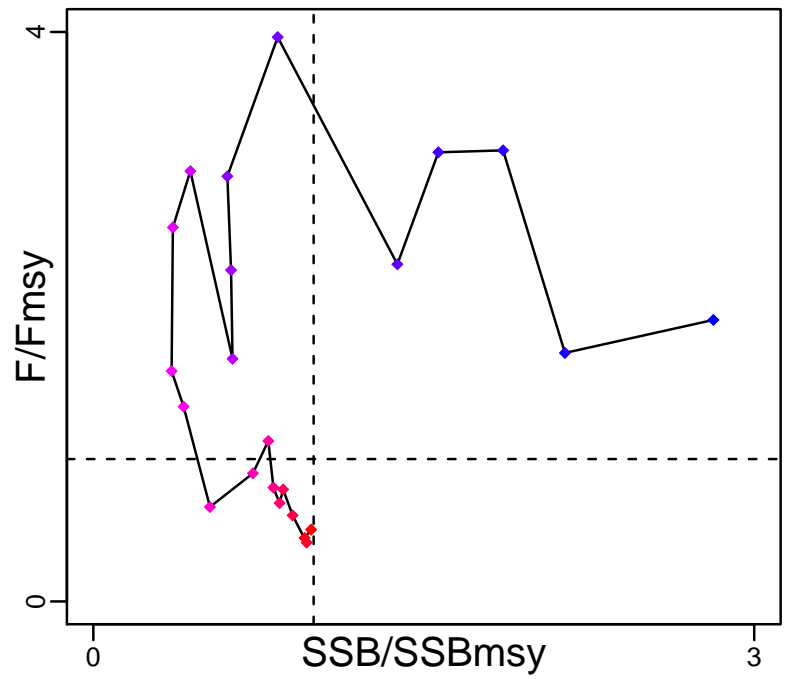
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	13,351	-	-
TN	-	-	-	-	-
R	R-E00	2016	9,201,000	-	1
F	F-1/yr	2016	0.111	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	1109		
TL	TL-MT	2010	1400		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.989		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.505		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

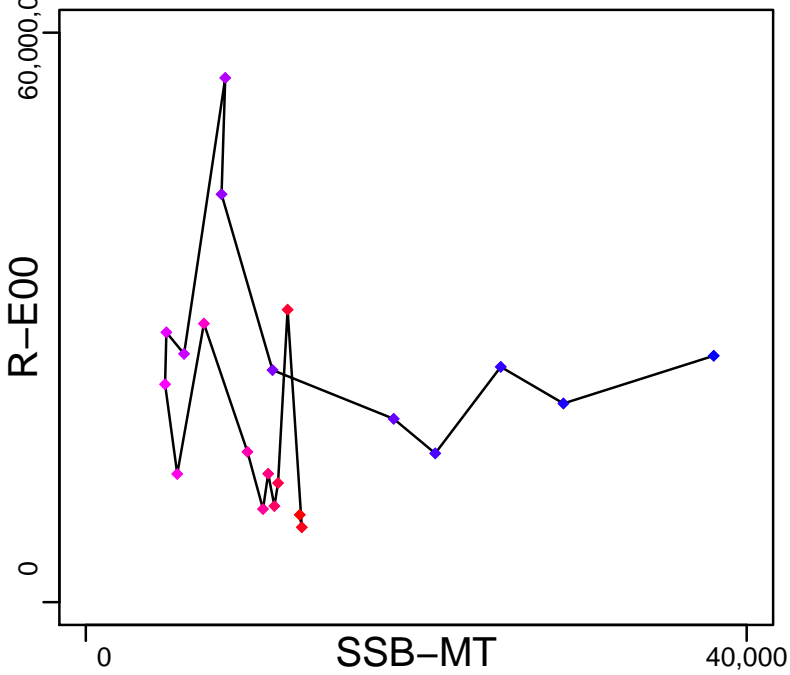
Kobe MSYpref (1979–2016–SISIMP2021)



Kobe MGTpref (1979–2016–SISIMP2021)



Spawner Recruit (1979–2016–SISIMP2021)



Production*



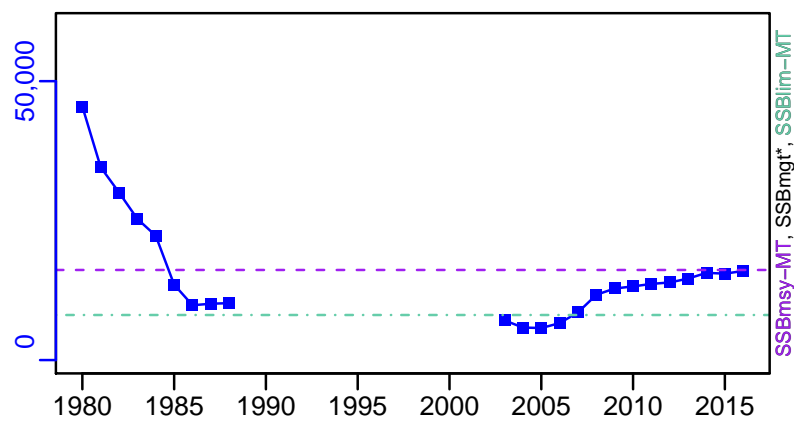
◆ Start Year ◆ End Year * No Data

American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

TB*



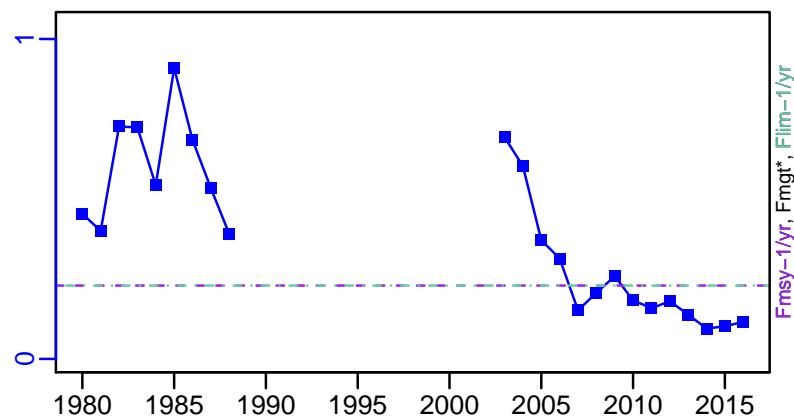
SSB-MT (1979–2016–SISIMP2021)



TN *



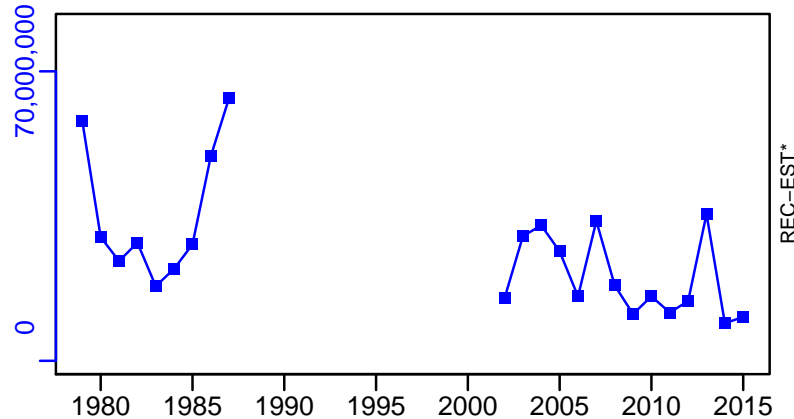
F-1/yr (1979–2016–SISIMP2021)



ER*



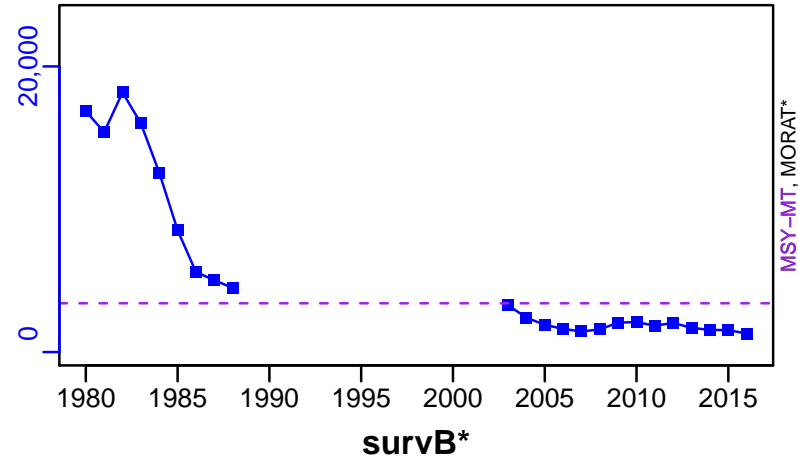
R-E00 (1979–2016–SISIMP2021)



American plaice Gulf of Maine / Georges Bank [AMPL5YZ]

TC-MT, TL*, RecC* (1979-2016-SISIMP2021)

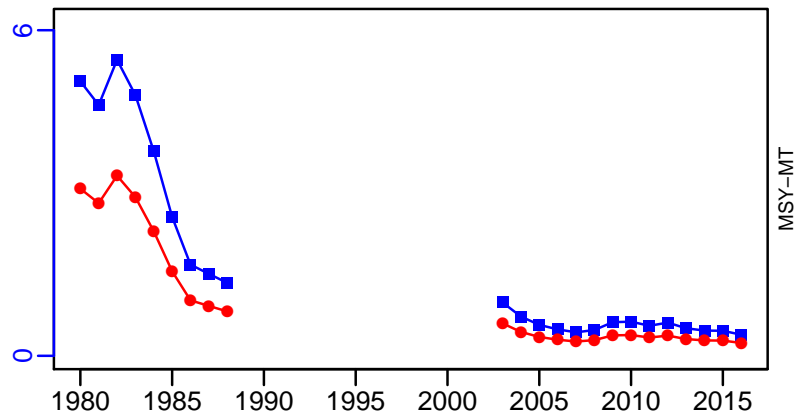
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1979-2016-SISIMP2021)



Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

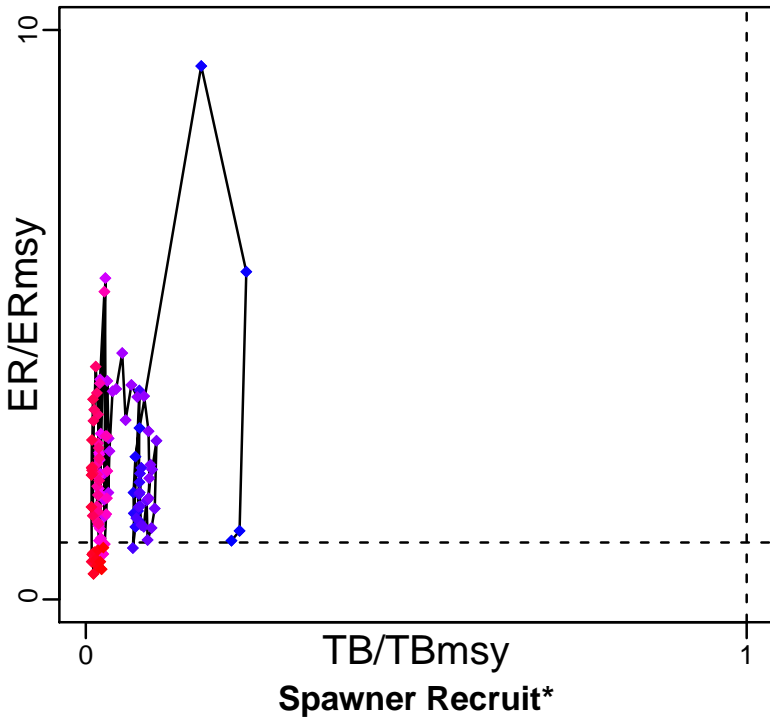
Metadata	
Scientific Name	Hippoglossus hippoglossus
Current Assess ID	NEFSC-ATHAL5YZ-1994-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016

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	-	-	-

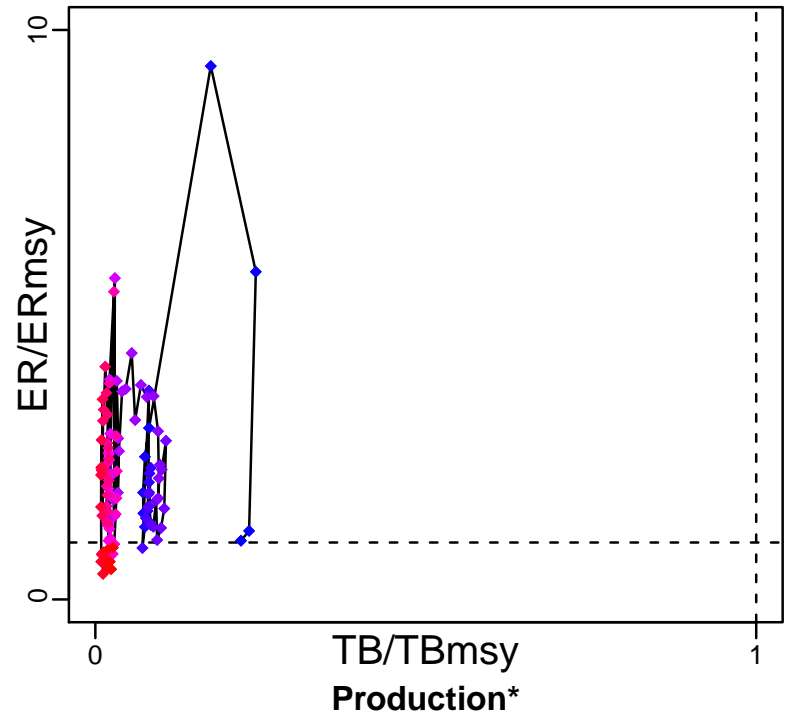
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2007	1300	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2007	0.065	-	-
ER	ER-ratio	2007	0.065	-	-
TC	TC-MT	2016	116		
TL	TL-MT	2007	52		
TB/TBmsy	TB-MT/TBmsy-MT	2007	0.027		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2007	0.89		
ER/ERmsy	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)

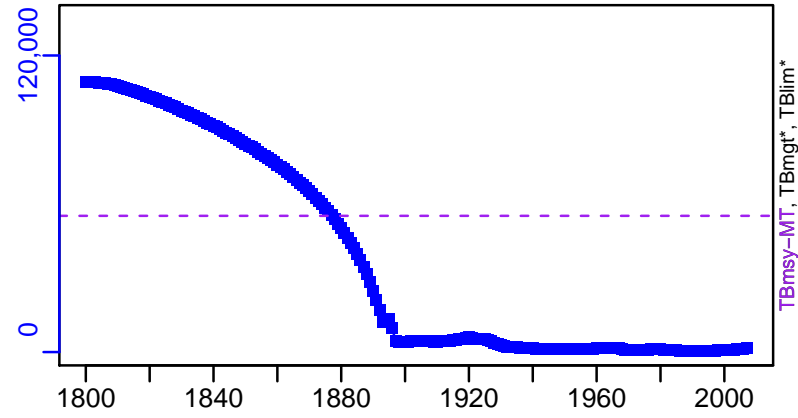


◆ Start Year ◆ End Year * No Data

Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

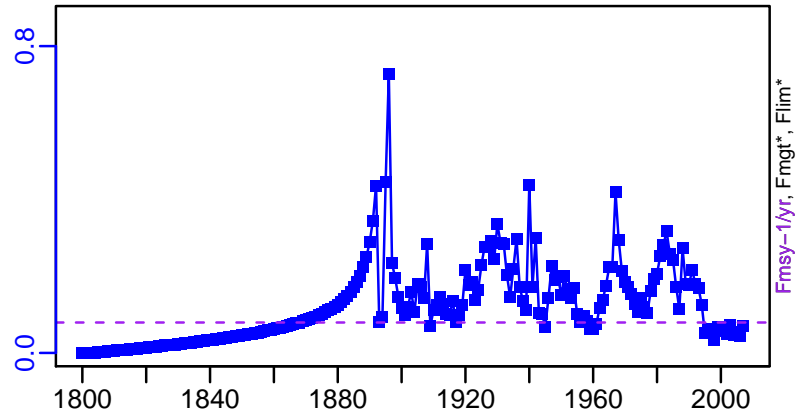
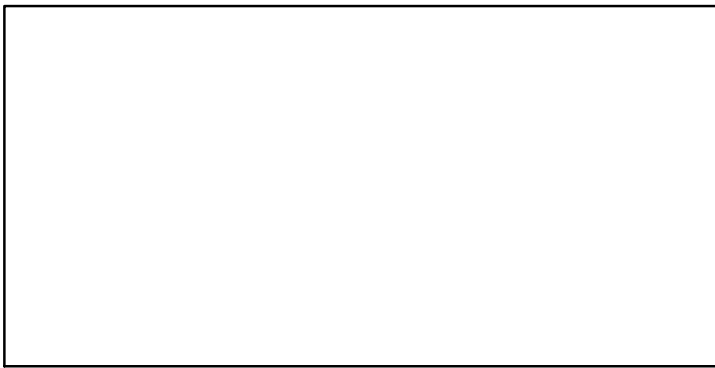
TB-MT (1800–2007–COL)

SSB*



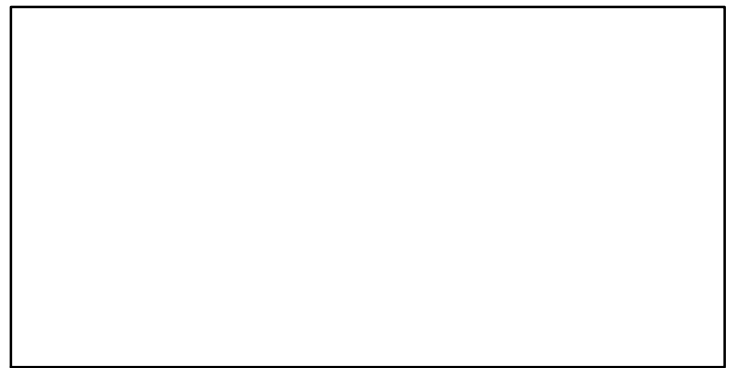
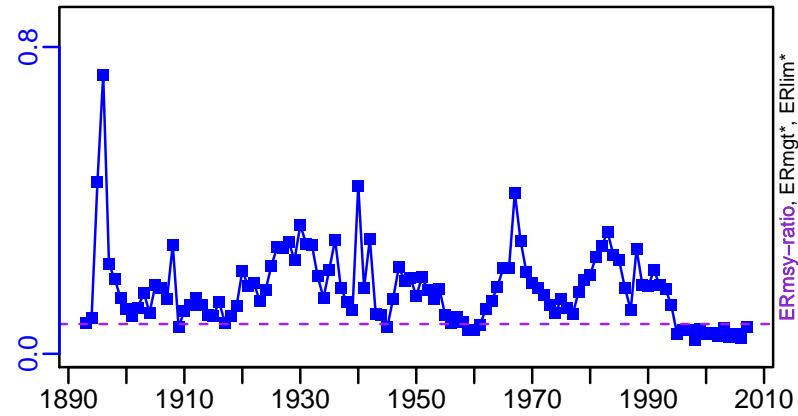
TN *

F-1/yr (1800–2007–COL)



ER-ratio (1800–2007–COL)

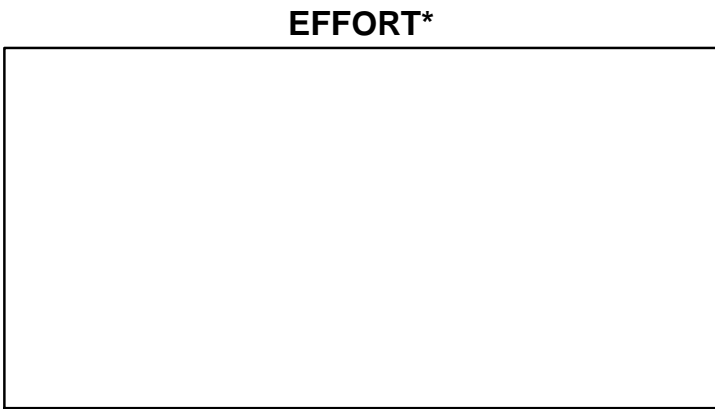
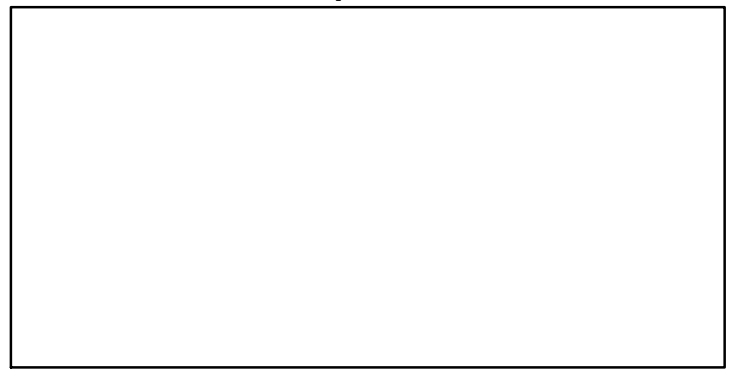
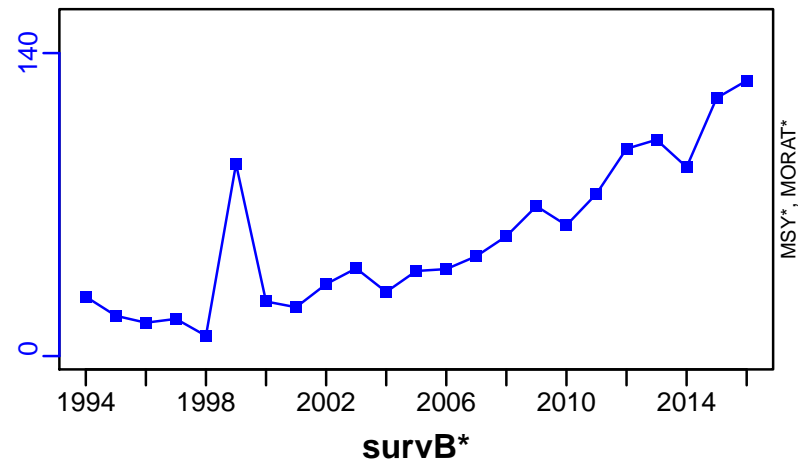
Recruits*



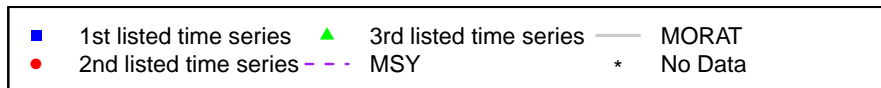
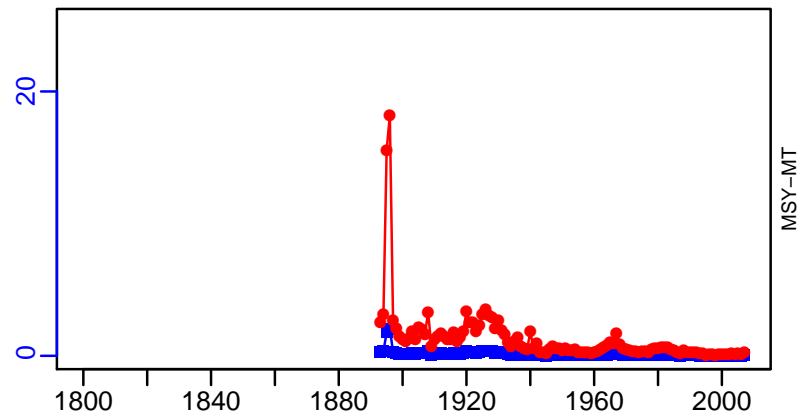
Atlantic halibut Gulf of Maine / Georges Bank [ATHAL5YZ]

TC-MT, TL*, RecC* (1994–2016–SISIMP2021)

TAC*, Cpair*, Cadv*



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



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

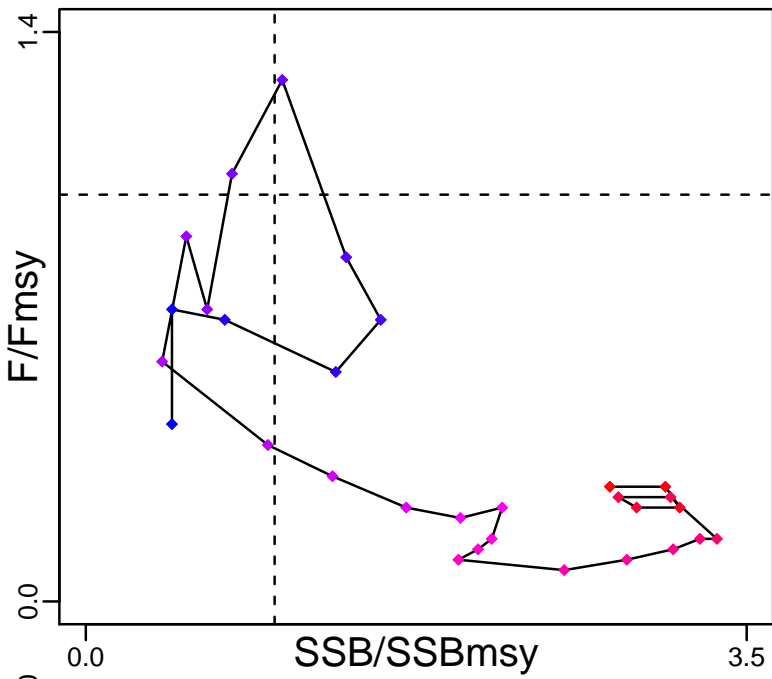
Metadata	
Scientific Name	Micropogonias undulatus
Current Assess ID	ASMFC-ATLCROAKMATLC-1973-2002-STANTON
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2002

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2002	28,932
Fmsy	Fmsy-1/yr	2002	0.39
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2002	0.3
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

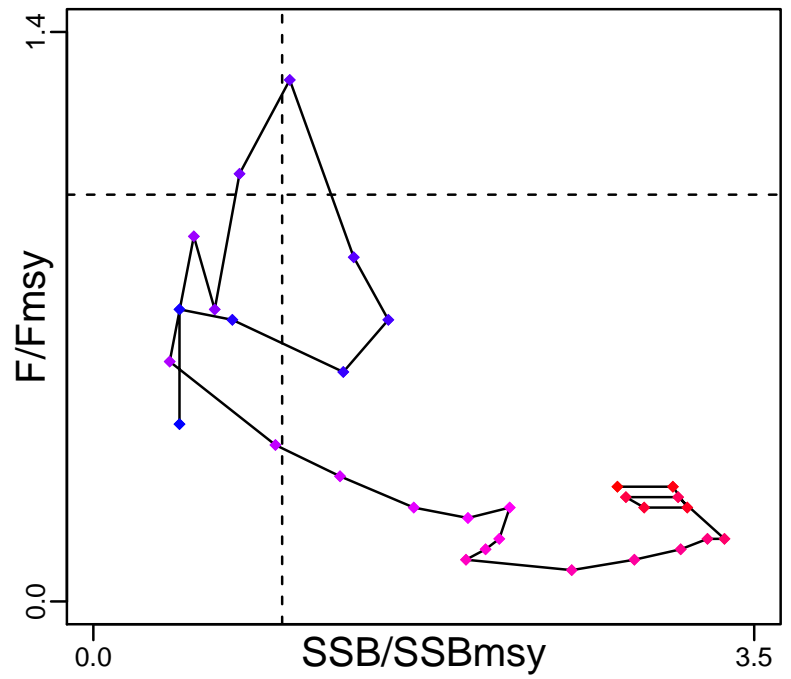
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2002	80,300	Females	1+
TN	-	-	-	-	-
R	R-E00	2002	3.39×10^8	-	0
F	F-1/yr	2002	0.11	-	1 to 10
ER	ER-ratio	2002	0.088	-	-
TC	-	-	-		
TL	TL-MT	2002	16,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2002	2.775		
F/Fmsy	F-1/yr/Fmsy-1/yr	2002	0.282		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

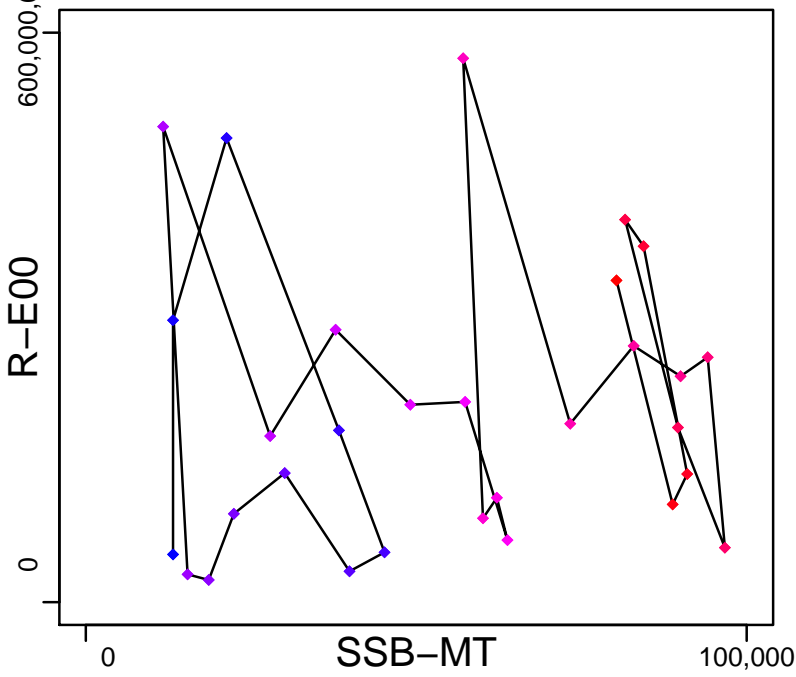
Kobe MSYpref (1973–2002–STANTON)



Kobe MGTpref (1973–2002–STANTON)



Spawner Recruit (1973–2002–STANTON)



Production*



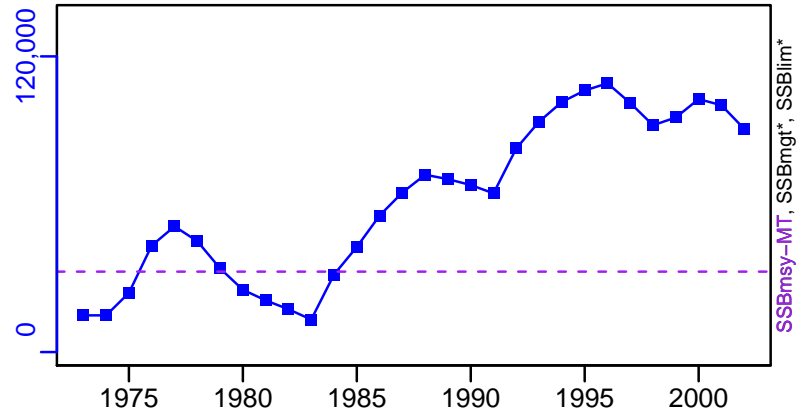
◆ Start Year ◆ End Year * No Data

Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

TB*



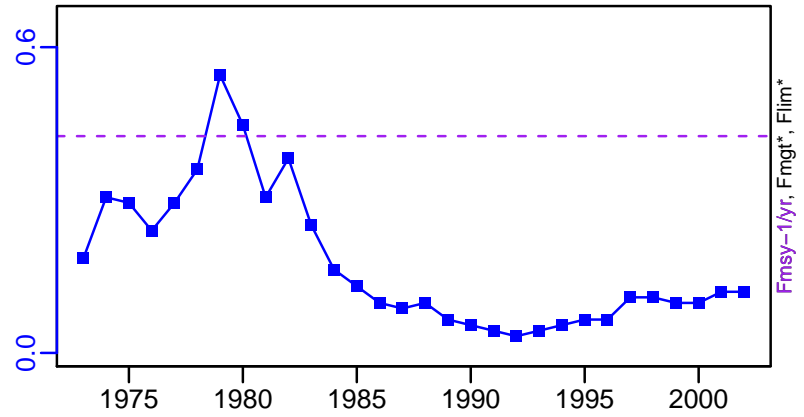
SSB-MT (1973-2002-STANTON)



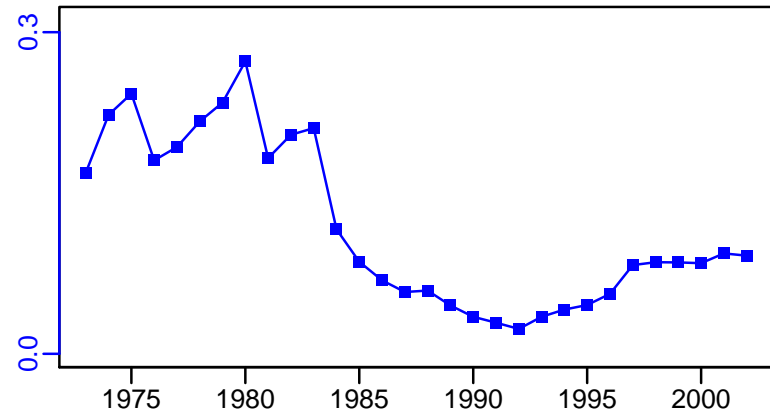
TN *



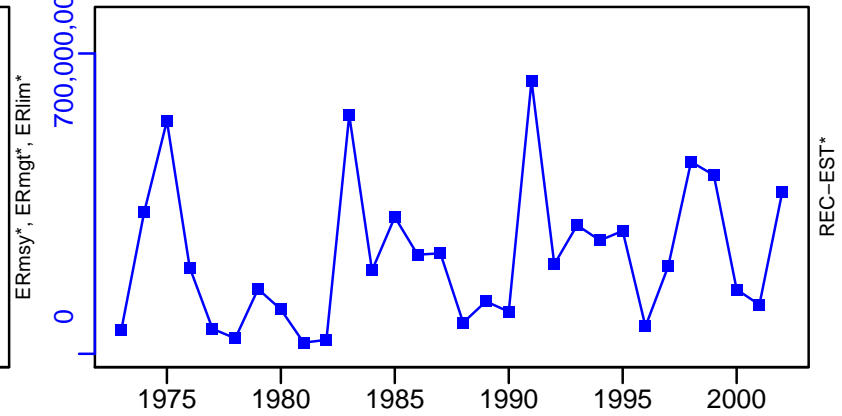
F-1/yr (1973-2002-STANTON)



ER-ratio (1973-2002-STANTON)

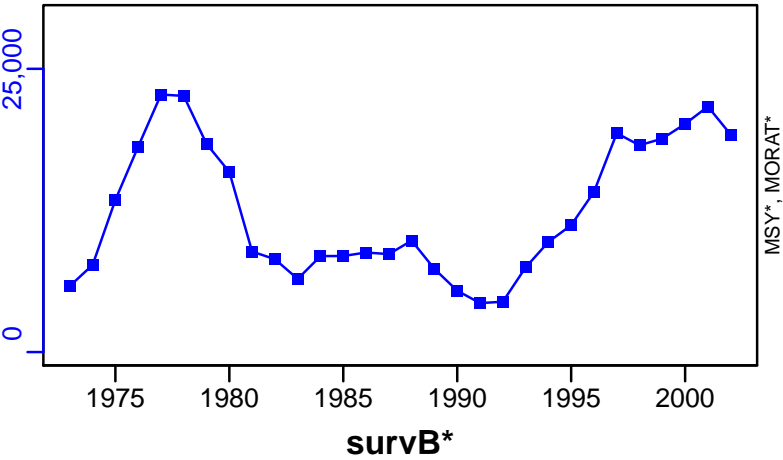


R-E00 (1973-2002-STANTON)



Atlantic croaker Mid-Atlantic Coast [ATLCROAKMATLC]

TL-MT, TC*, RecC* (1973-2002-STANTON)



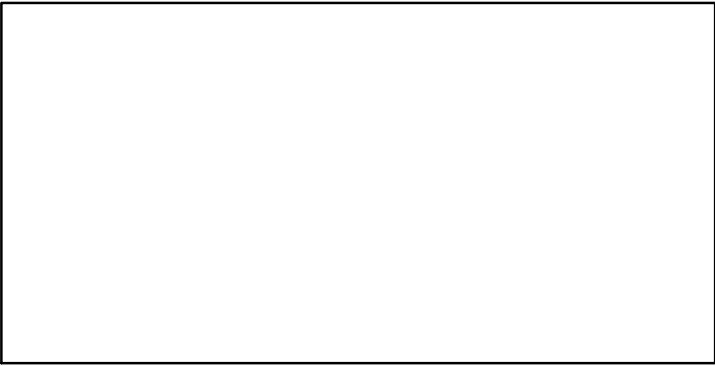
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

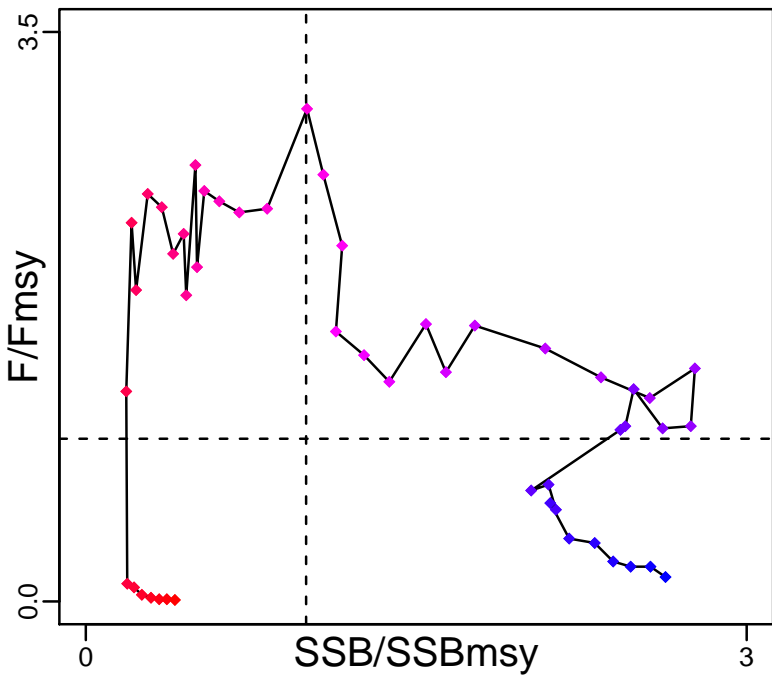
Metadata	
Scientific Name	Anarhichas lupus
Current Assess ID	NEFSC-AWOLF5YZ-1967-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	1612
Fmsy	Fmsy-1/yr	2016	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	232
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	806
Flim	Flim-1/yr	2016	0.22
ERlim	-	-	-

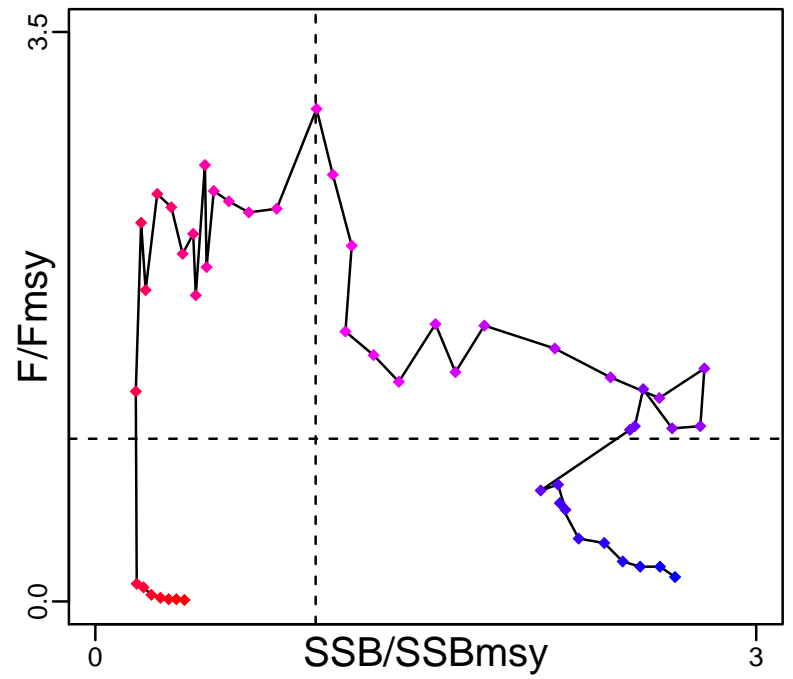
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	652	-	-
TN	-	-	-	-	-
R	R-MT	2016	289	-	1
F	F-1/yr	2016	0.002	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	0.9		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.404		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.009		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

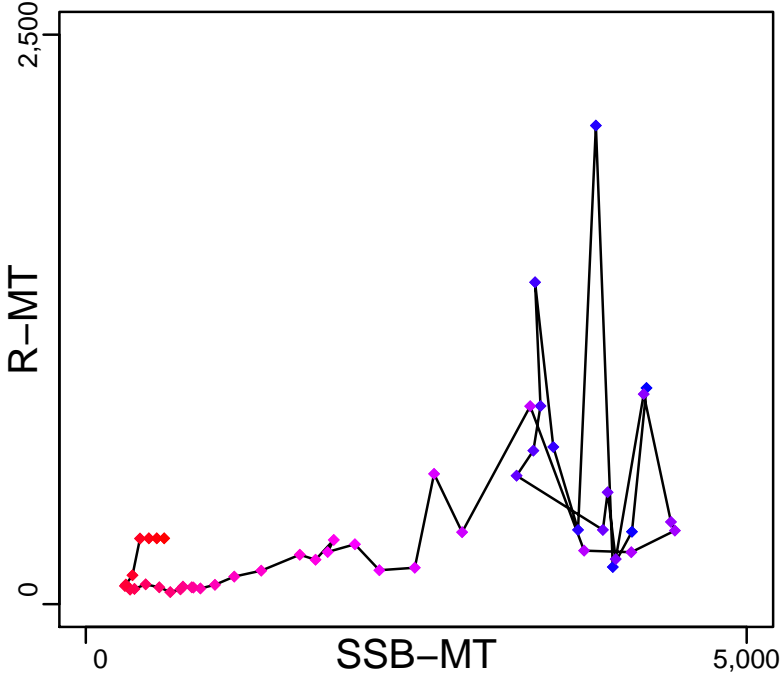
Kobe MSY_{pref} (1967–2016–SISIMP2021)



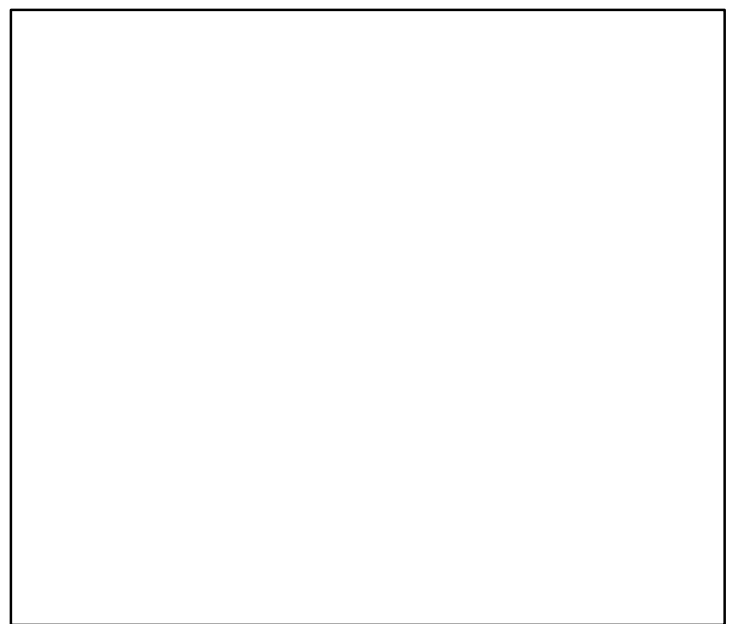
Kobe MGT_{pref} (1967–2016–SISIMP2021)



Spawner Recruit (1967–2016–SISIMP2021)



Production*



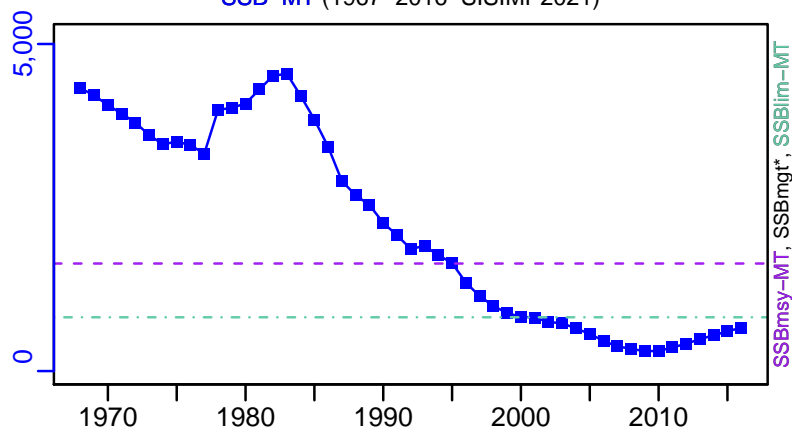
◆ Start Year ◆ End Year * No Data

Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

TB*



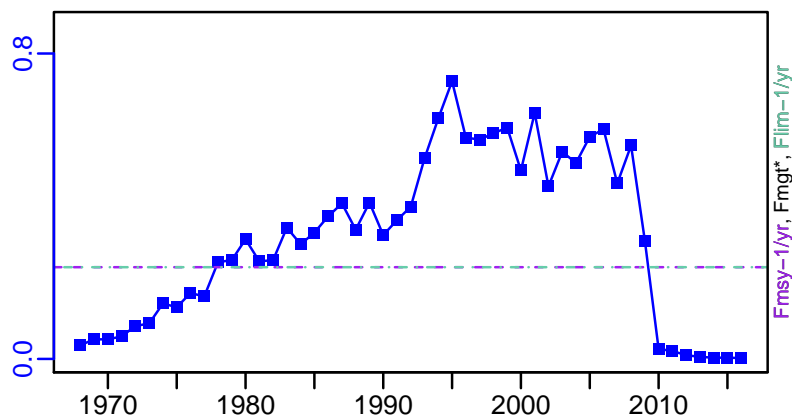
SSB-MT (1967–2016–SISIMP2021)



TN *



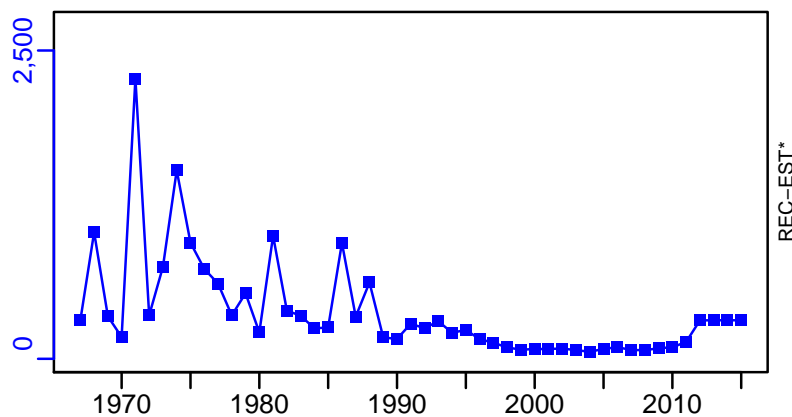
F-1/yr (1967–2016–SISIMP2021)



ER*

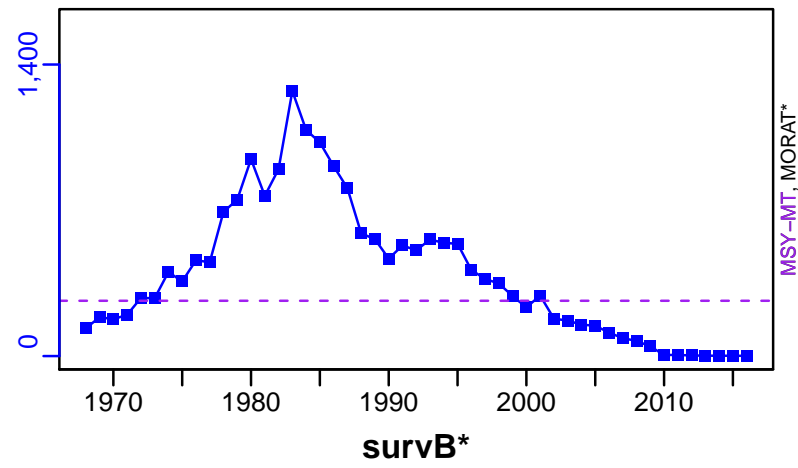


R-MT (1967–2016–SISIMP2021)



Atlantic wolffish Gulf of Maine / Georges Bank [AWOLF5YZ]

TC-MT, TL*, RecC* (1967–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



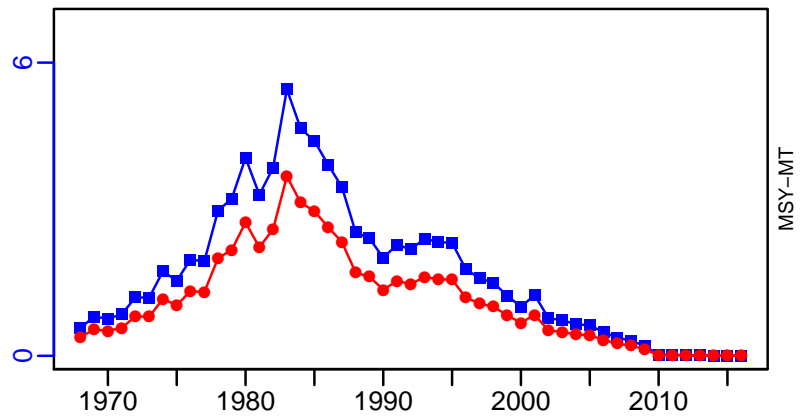
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1967–2016–SISIMP2021)



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

Blue crab Chesapeake Bay [BCRABCHESB]

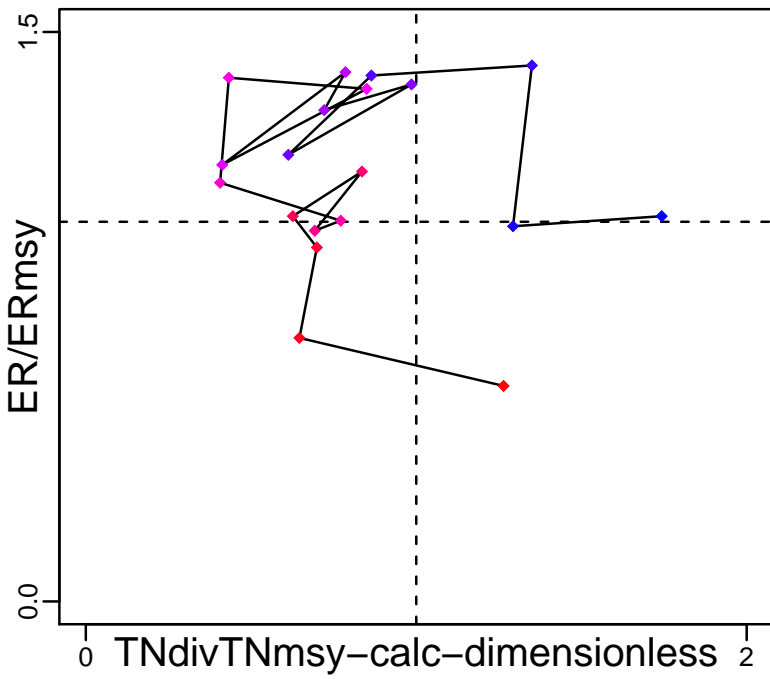
Metadata	
Scientific Name	Callinectes sapidus
Current Assess ID	CBP-BCRABCHESB-1990-2010-HIVELY
Area	Chesapeake Bay
Management Authority	State of Maryland
Assessor	Chesapeake Bay Program
Asmts in RAM	2010

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	-	-	-		

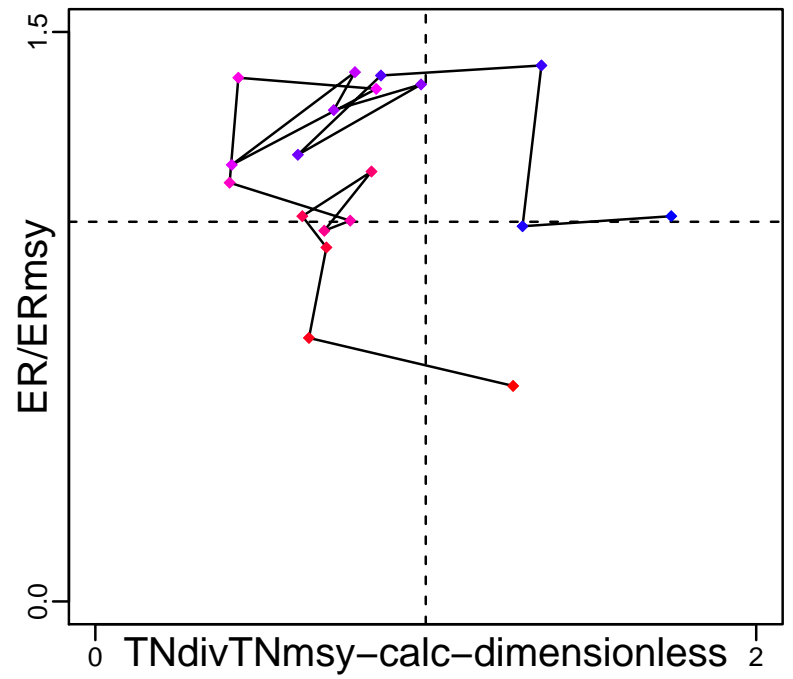
Blue crab Chesapeake Bay [BCRABCHESB]

Kobe MSYpref (1990–2010–HIVELY)



Spawner Recruit*

Kobe MGTpref (1990–2010–HIVELY)



Production*

◆ Start Year ◆ End Year * No Data

Blue crab Chesapeake Bay [BCRABCHESB]

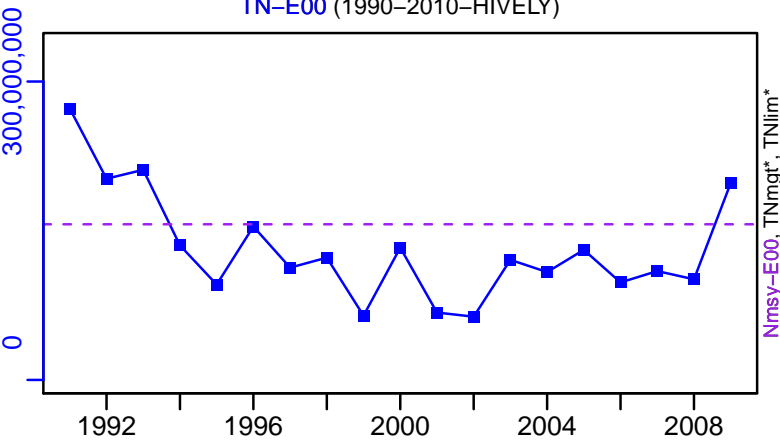
TB*



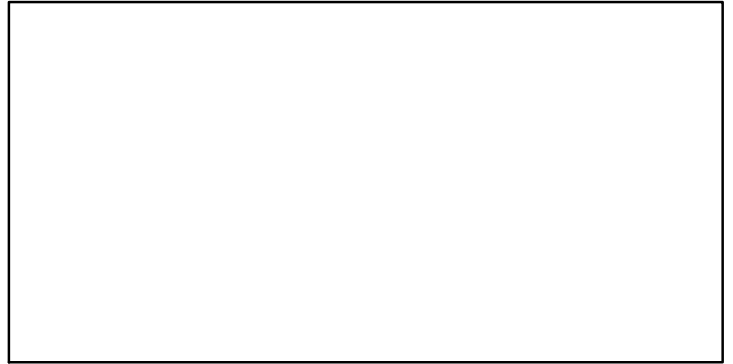
SSB*



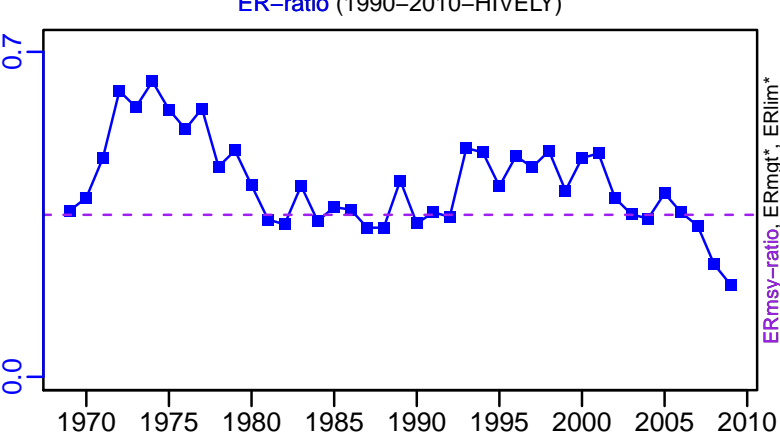
TN-E00 (1990–2010–HIVELY)



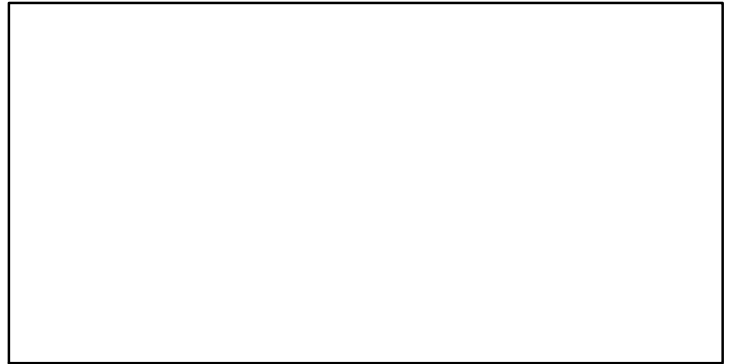
F*



ER-ratio (1990–2010–HIVELY)



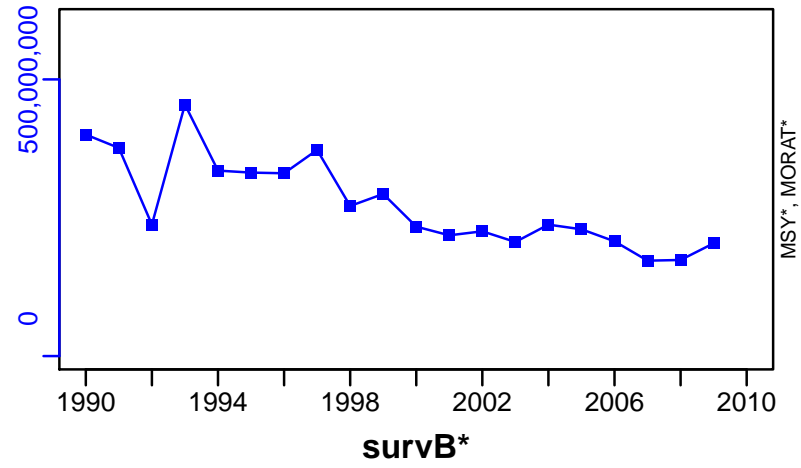
Recruits*



Blue crab Chesapeake Bay [BCRABCHESB]

TC-E00, TL*, RecC* (1990–2010–HIVELY)

TAC*, Cpair*, Cadv*



Bluefish Atlantic Coast [BLUEFISHATLC]

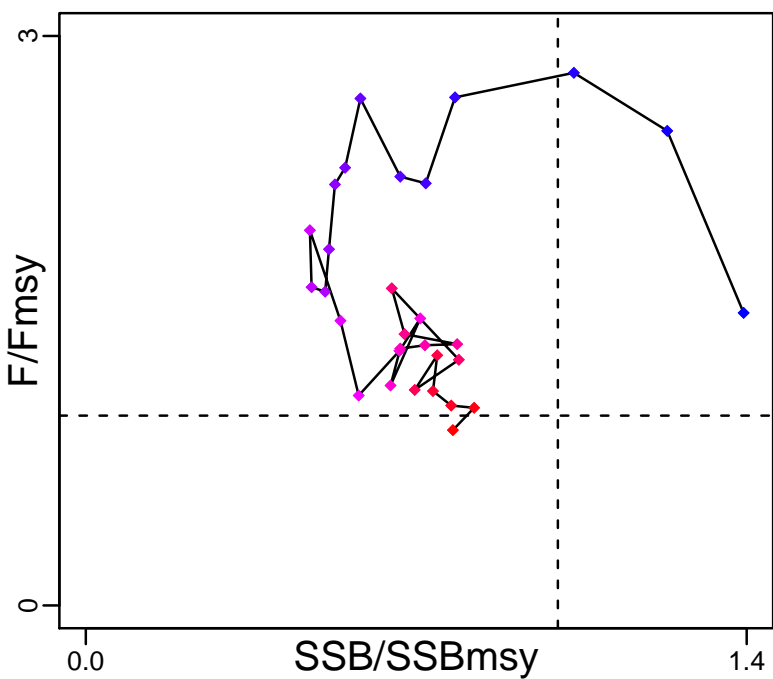
Metadata	
Scientific Name	Pomatomus saltatrix
Current Assess ID	NEFSC-BLUEFISHATLC-1985-2014-SISIMP2016
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2007	147,052
SSBmsy	SSBmsy-MT	2014	111,228
Fmsy	Fmsy-1/yr	2014	0.17
ERmsy	ERmsy-ratio	2007	0.106
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	13,967
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	55,614
Flim	Flim-1/yr	2014	0.17
ERlim	-	-	-

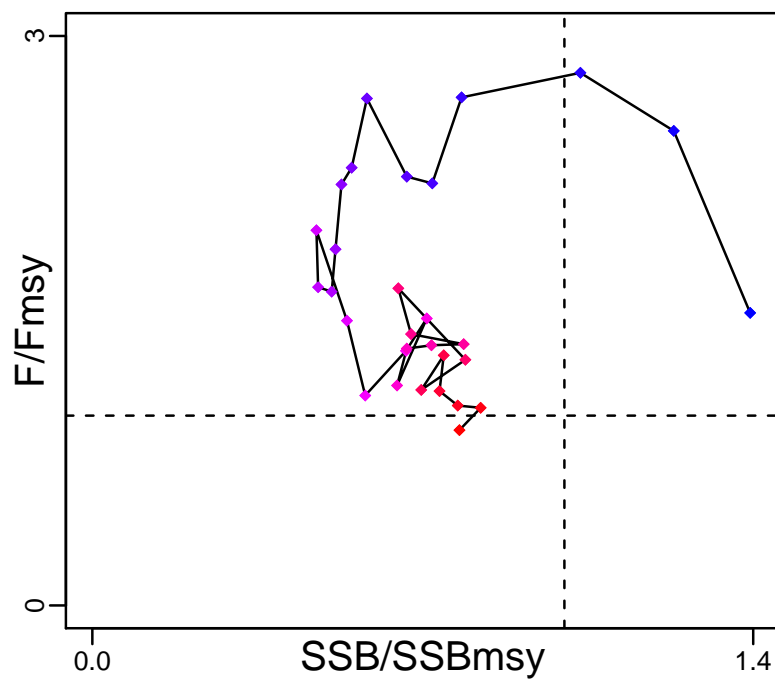
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2014	94,300	-	-
SSB	SSB-MT	2014	86,500	-	-
TN	-	-	-	-	-
R	R-E00	2014	29,600,000	-	0
F	F-1/yr	2014	0.157	-	-
ER	ER-calc-ratio	2014	0.104	-	-
TC	TC-MT	2014	9820		
TL	-	-	-		
TB/TBmsy	TB-MT/TBmsy-MT	2007	1.047		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.778		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	0.924		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	0.954		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Bluefish Atlantic Coast [BLUEFISHATLC]

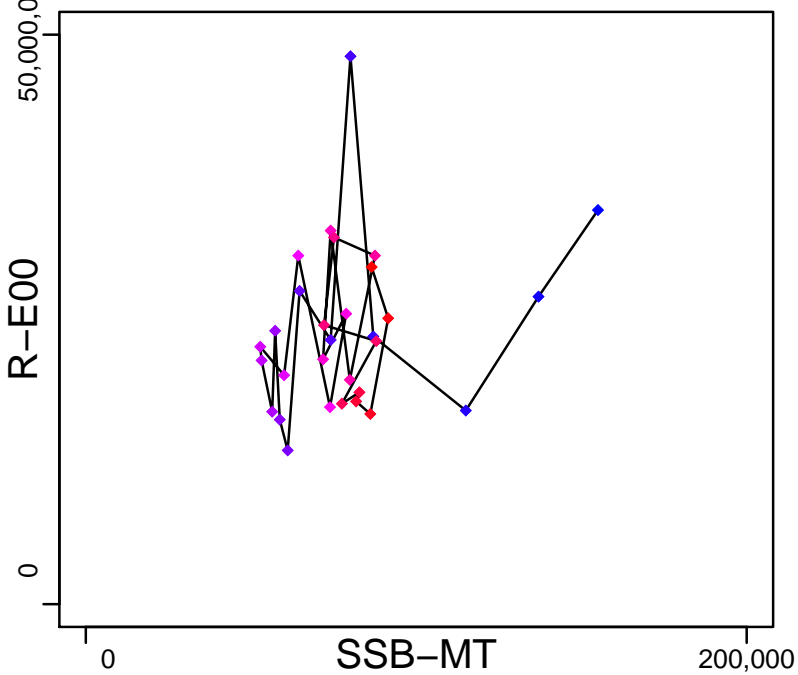
Kobe MSY_{pref} (1985–2014–SISIMP2016)



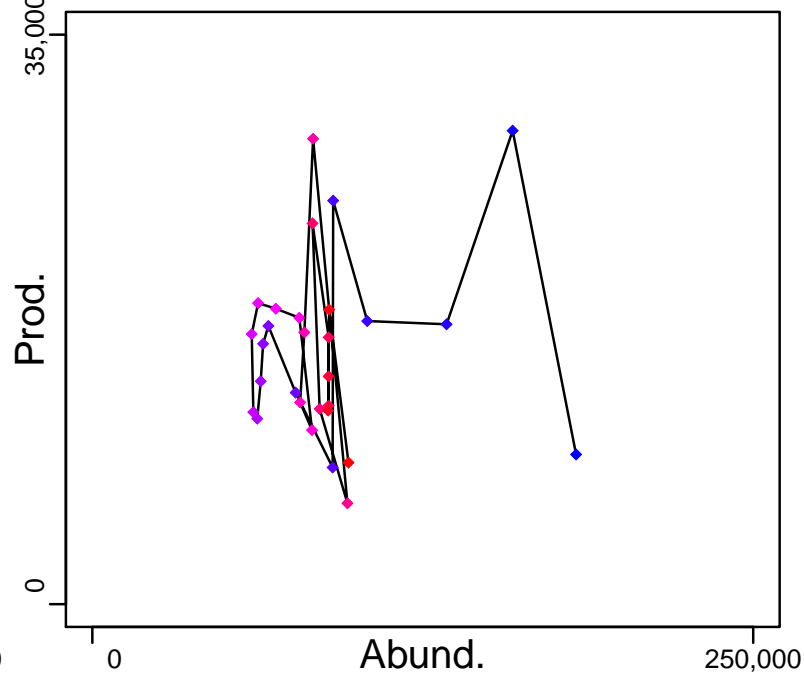
Kobe MGT_{pref} (1985–2014–SISIMP2016)



Spawner Recruit (1985–2014–SISIMP2016)



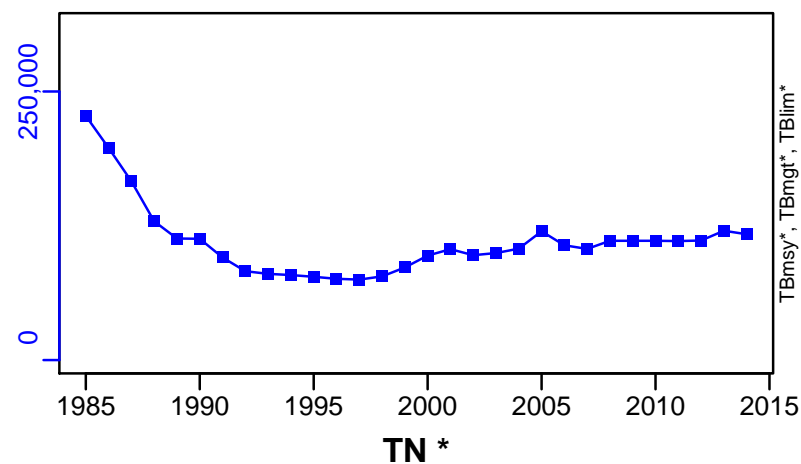
Production (1985–2014–SISIMP2016)



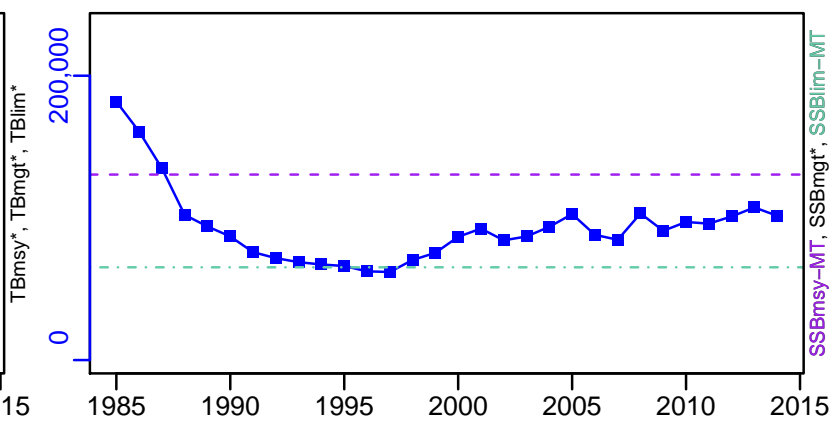
◆ Start Year ◆ End Year * No Data

Bluefish Atlantic Coast [BLUEFISHATLC]

TB-MT (1985–2014–SISIMP2016)



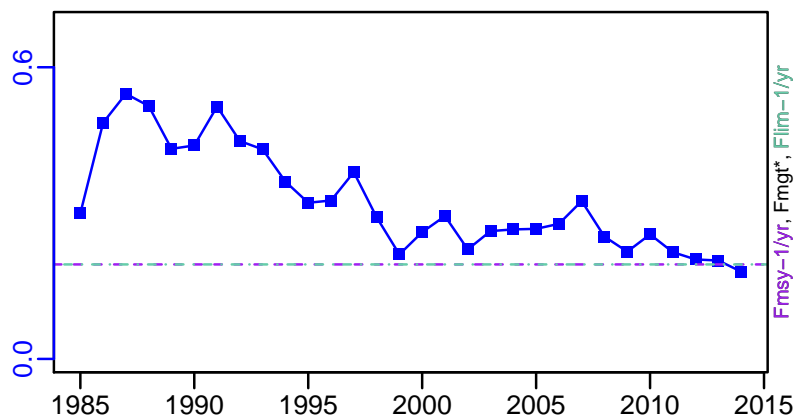
SSB-MT (1985–2014–SISIMP2016)



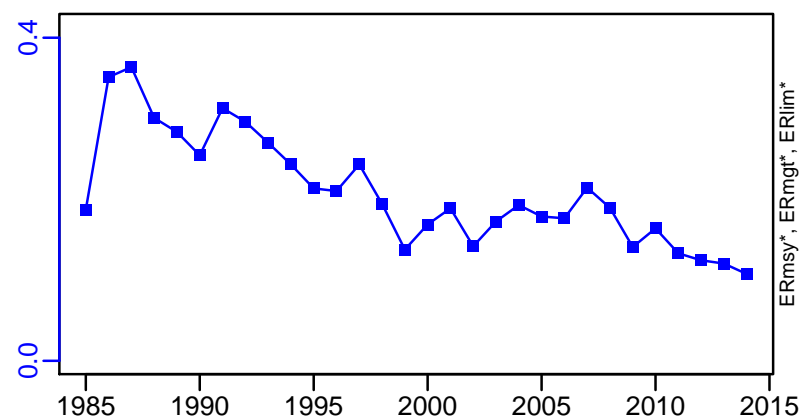
TN *



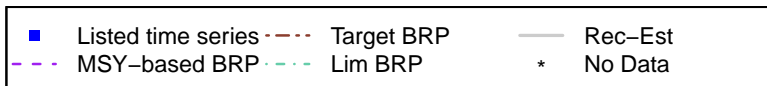
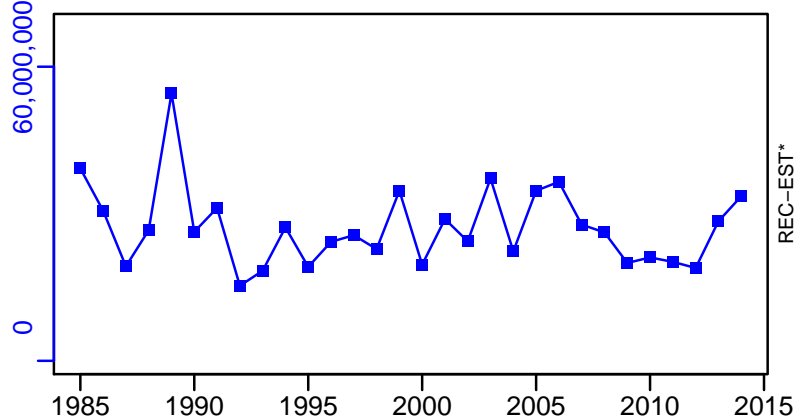
F-1/yr (1985–2014–SISIMP2016)



ER-calc-ratio (1985–2014–SISIMP2016)



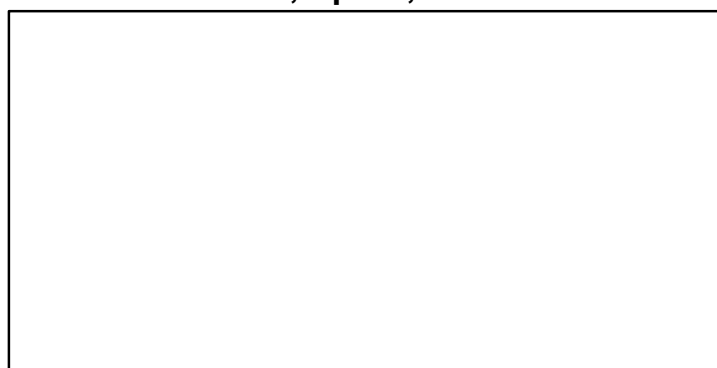
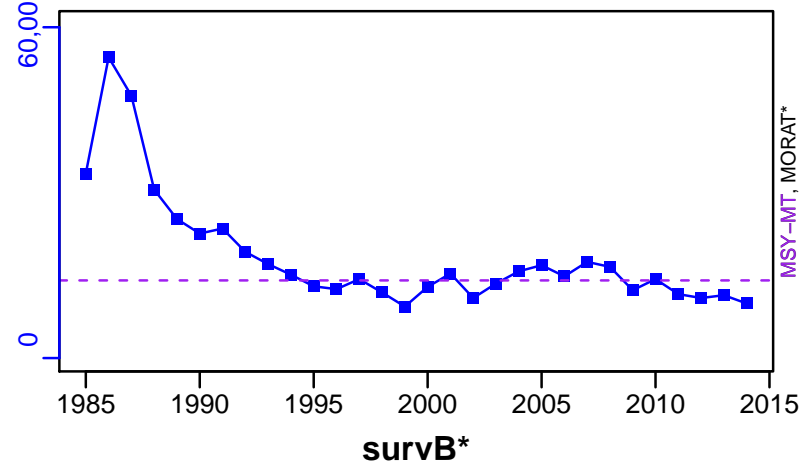
R-E00 (1985–2014–SISIMP2016)



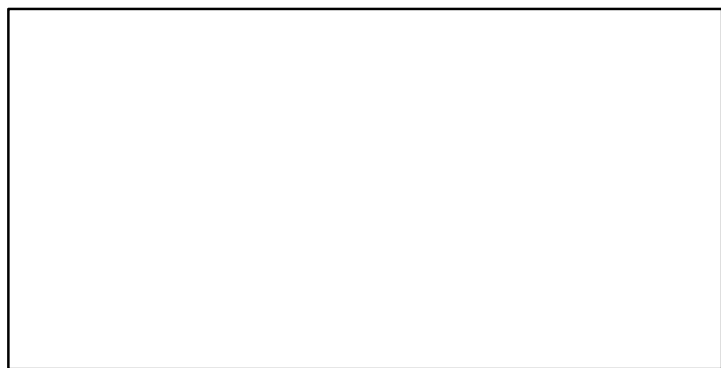
Bluefish Atlantic Coast [BLUEFISHATLC]

TC-MT, TL*, RecC* (1985–2014–SISIMP2016)

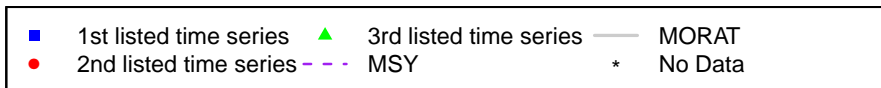
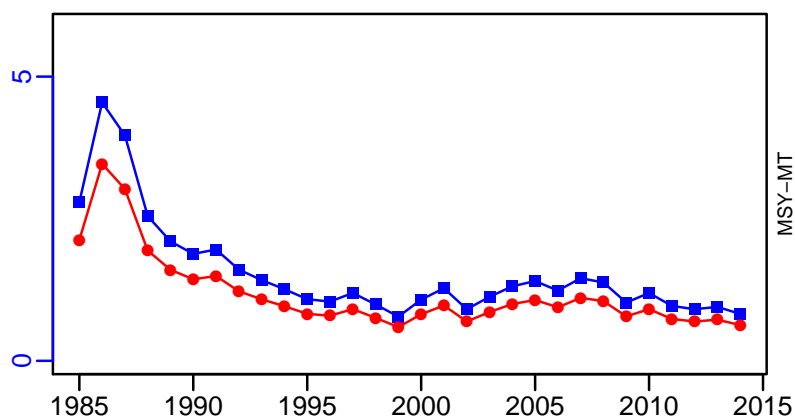
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1985–2014–SISIMP2016)



Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

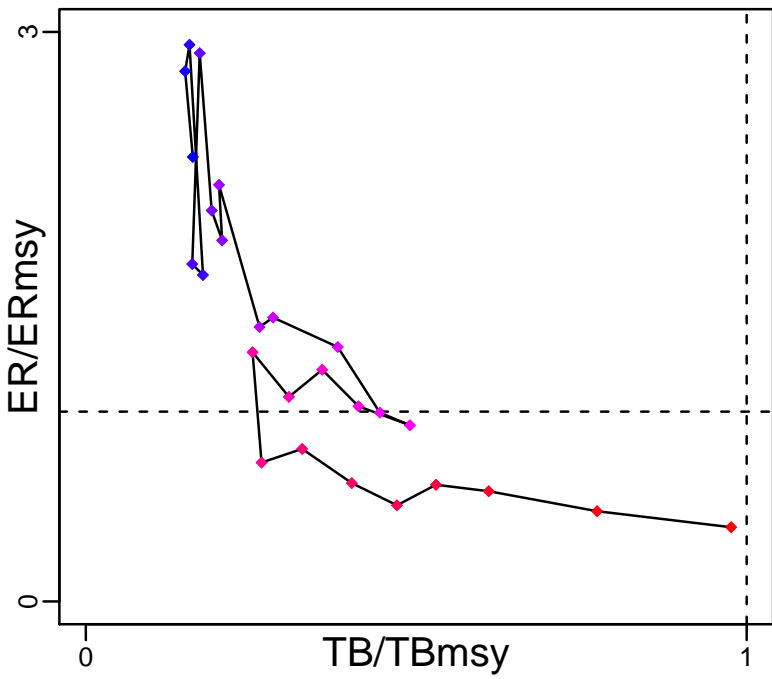
Metadata	
Scientific Name	Centropristis striata
Current Assess ID	NEFSC-BSBASSMATLC-1939-2015-ASHBROOK
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2015, 2007, 2011

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2015	17,256
SSBmsy	SSBmsy-MT	2011	10,880
Fmsy	Fmsy-pr-1/yr	2015	0.36
ERmsy	ERmsy-calc-ratio	2015	0.179
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2015	3097
M	M-1/yr	2015	0.4
TBlim	-	-	-
SSBlim	SSBlim-MT	2011	5440
Flim	Flim-1/yr	2011	0.44
ERlim	-	-	-

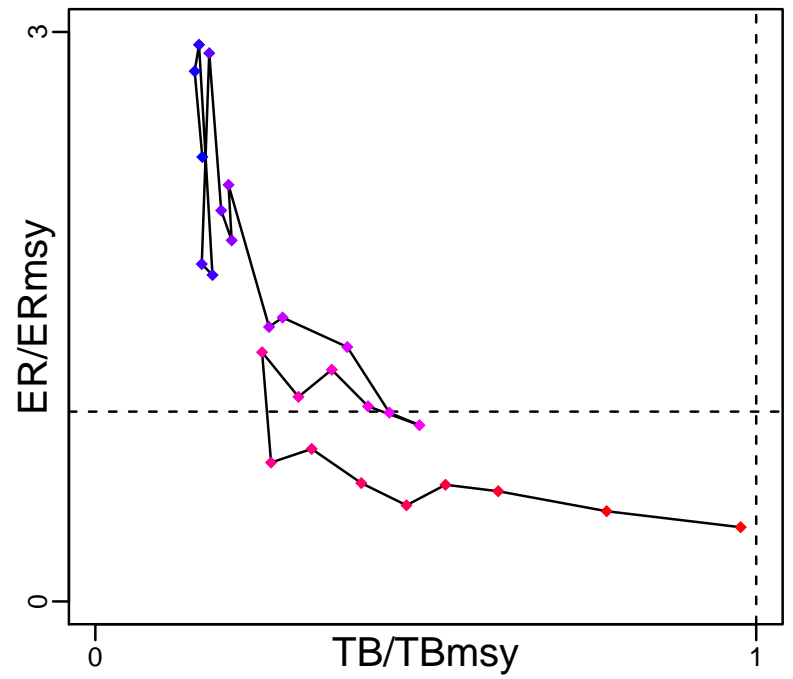
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2015	16,850	Both	-
SSB	SSB-MT	2011	11,100	-	-
TN	TN-E00	2015	70,334,820	Both	-
R	R-E00	2011	2.1×10^7	-	0
F	F-1/yr	2015	0.238	Both	-
ER	ER-calc-ratio	2015	0.07	-	-
TC	TC-MT	2011	1550		
TL	TL-MT	2015	1183		
TB/TBmsy	TB-MT/TBmsy-MT	2015	0.976		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	1.02		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2015	0.661		
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]

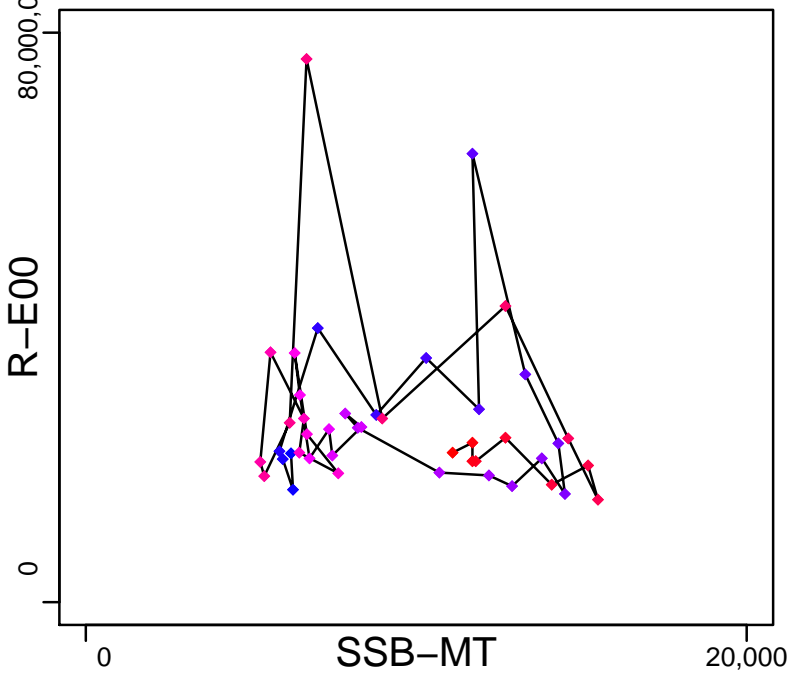
Kobe MSY_{pref} (1939–2015–ASHBROOK)



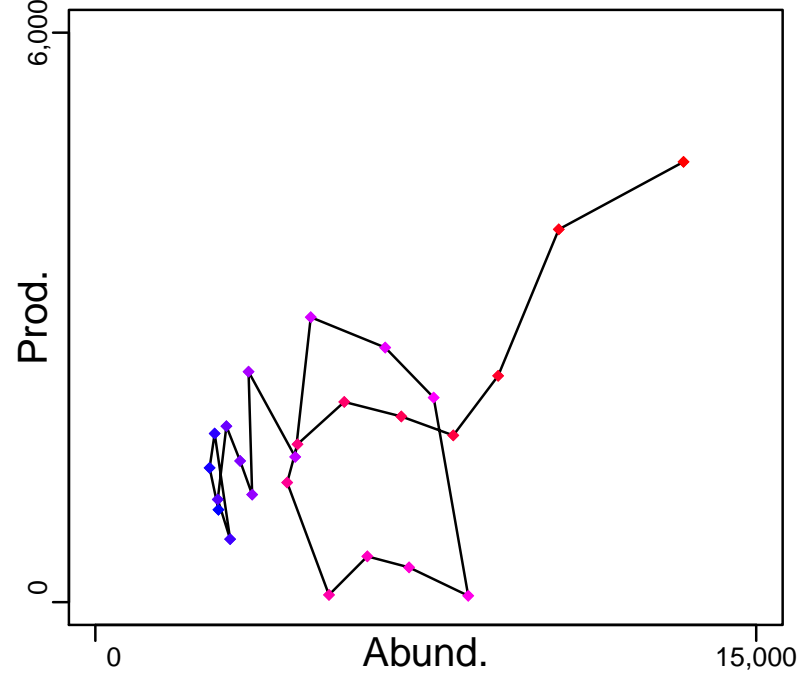
Kobe MGT_{pref} (1939–2015–ASHBROOK)



Spawner Recruit (1968–2011–SISIMP2016)



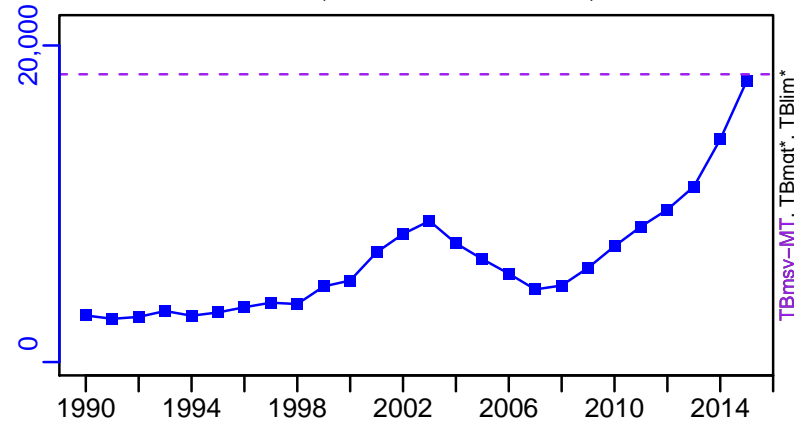
Production (1939–2015–ASHBROOK)



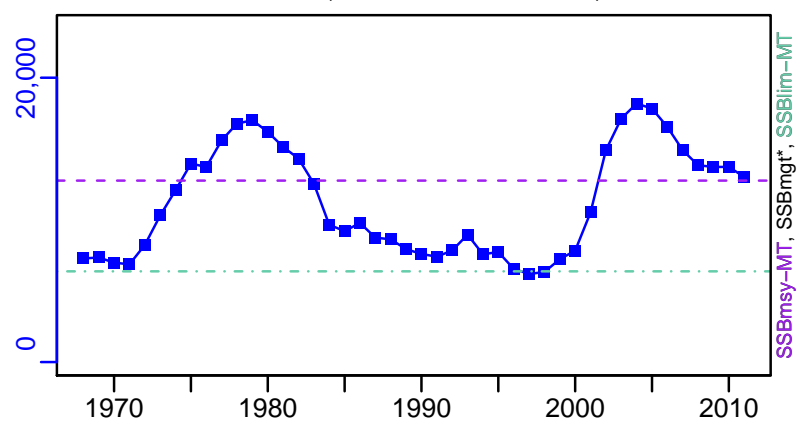
◆ Start Year ◆ End Year * No Data

Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

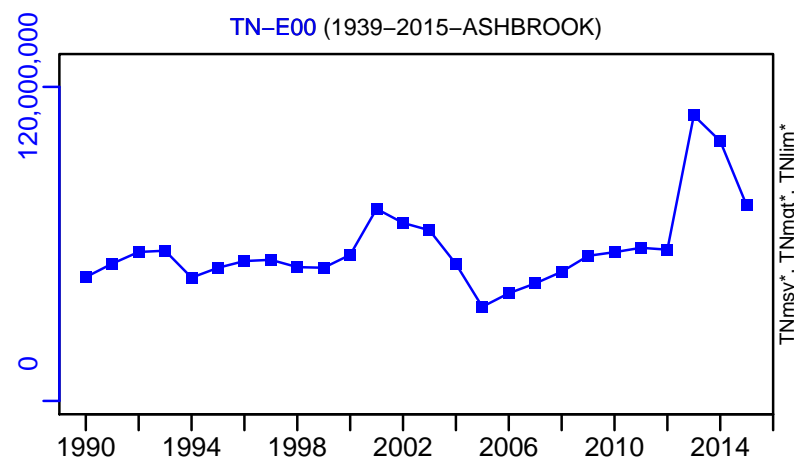
TB-MT (1939–2015–ASHBROOK)



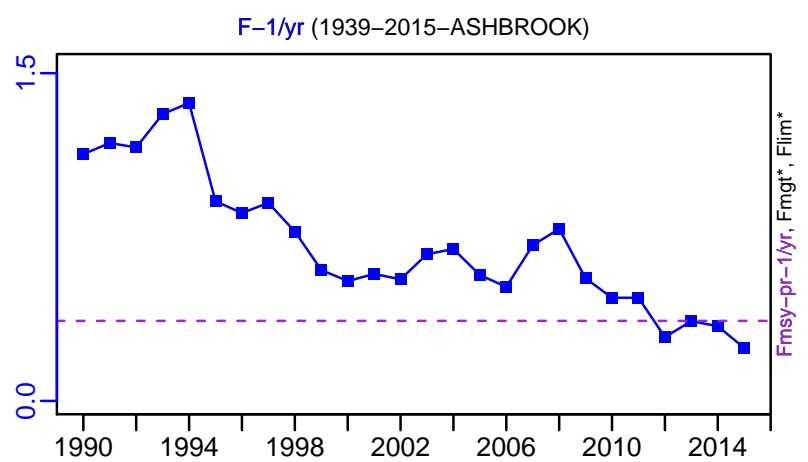
SSB-MT (1968–2011–SISIMP2016)



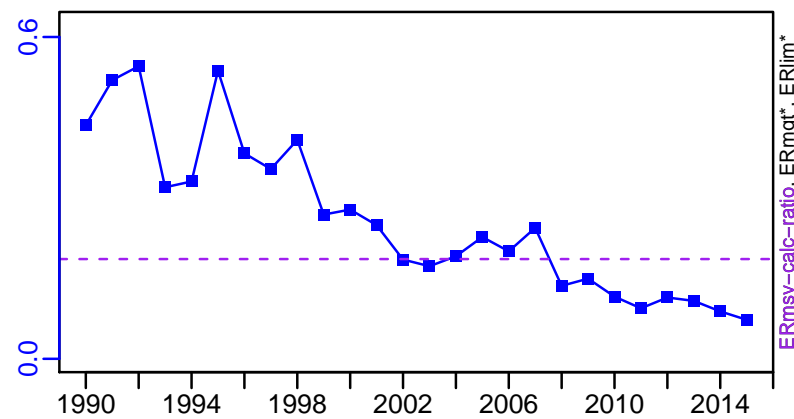
TN-E00 (1939–2015–ASHBROOK)



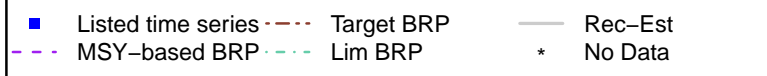
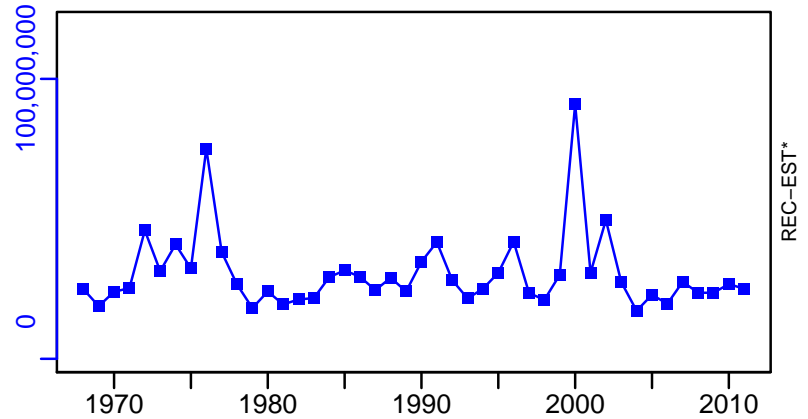
F-1/yr (1939–2015–ASHBROOK)



ER-calc-ratio (1939–2015–ASHBROOK)

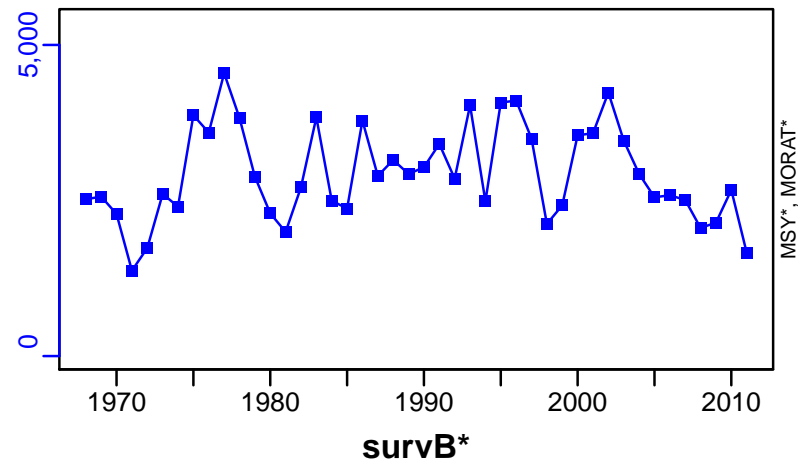


R-E00 (1968–2011–SISIMP2016)



Black sea bass Mid-Atlantic Coast [BSBASSMATLC]

TC-MT, TL*, RecC* (1968-2011-SISIMP2016)



TAC*, Cpair*, Cadv*



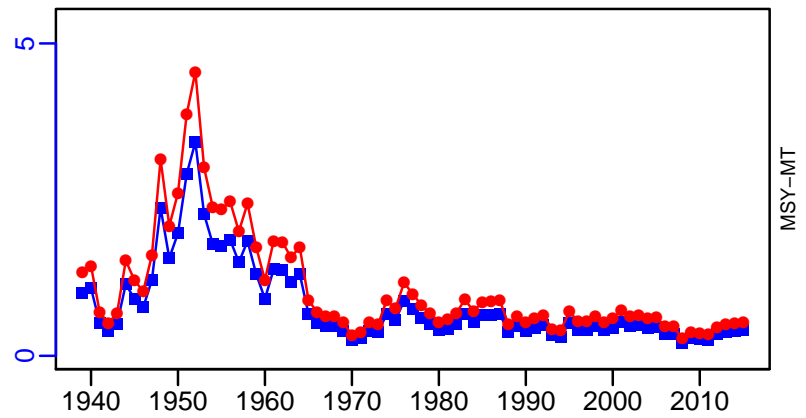
CPUE*



EFFORT*



TL-MT/MSY-MT, CdivMEANC-ratio, (1939-2015-ASHBROOK)



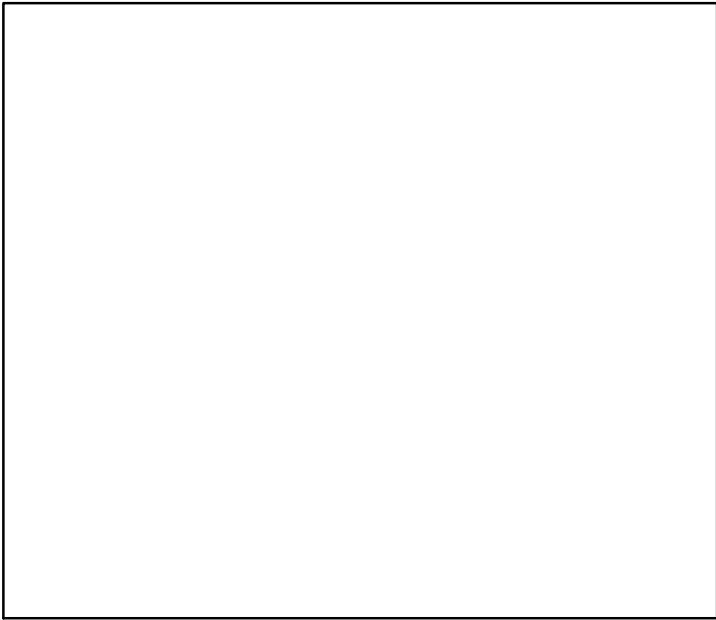
**Barndoor skate Gulf of Maine / Georges Bank-Southern New England
[BSKAT5YZSNE]**

Metadata	
Scientific Name	Dipturus laevis
Current Assess ID	NEFSC-BSKAT5YZSNE-1963-2005-SOSEBEE
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

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

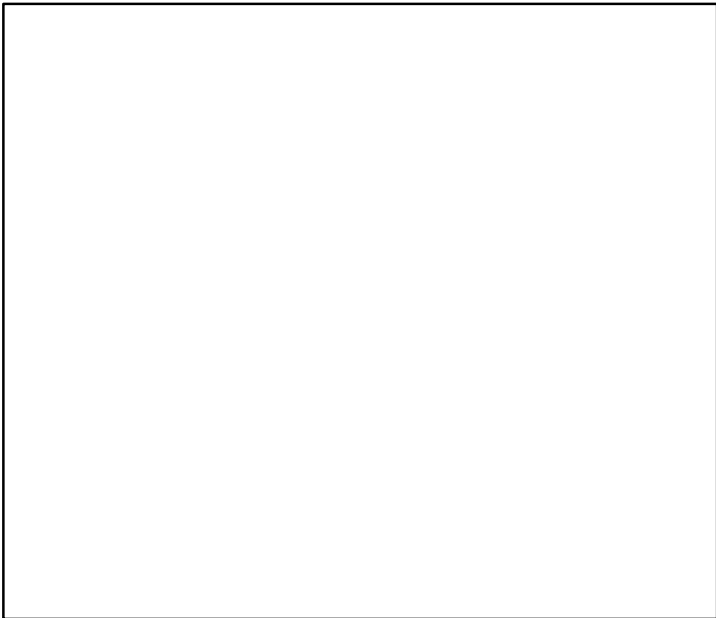
Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



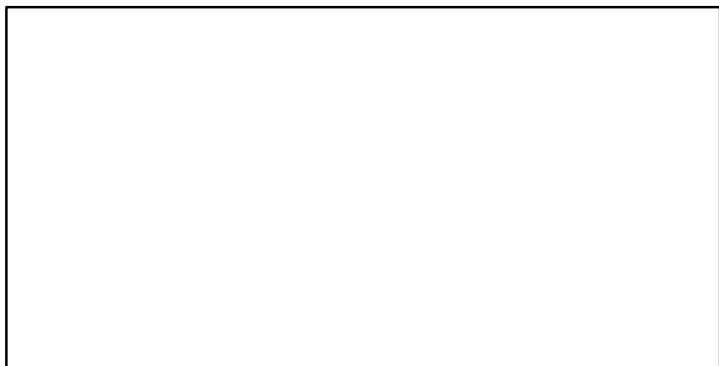
ER*



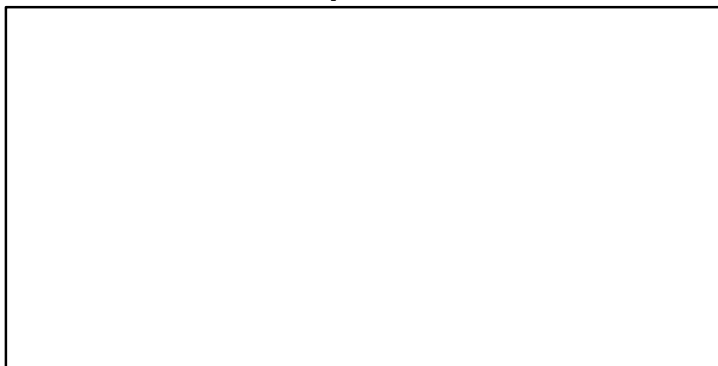
Recruits*



TC*, TL*, RecC*



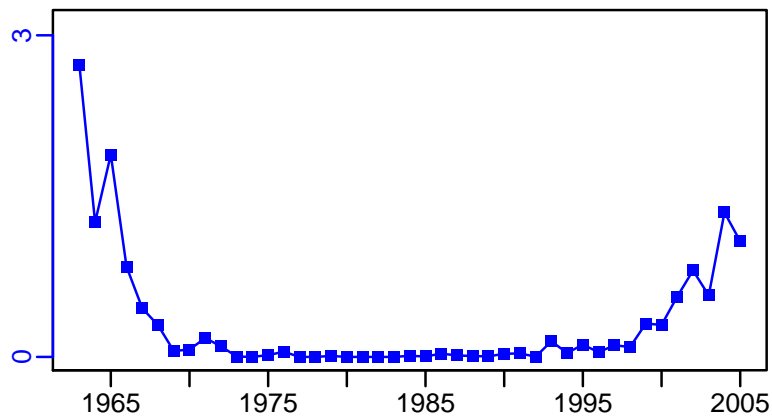
TAC*, Cpair*, Cadv*



survB*



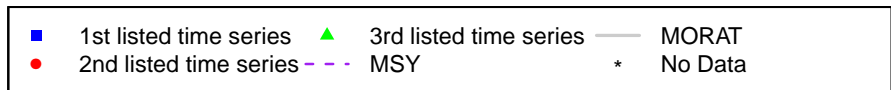
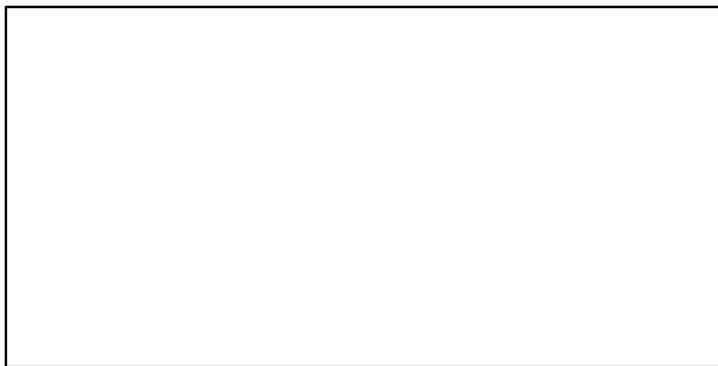
CPUE–kgpertow (1963–2005–SOSEBEE)



EFFORT*



CdivMSY*



Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

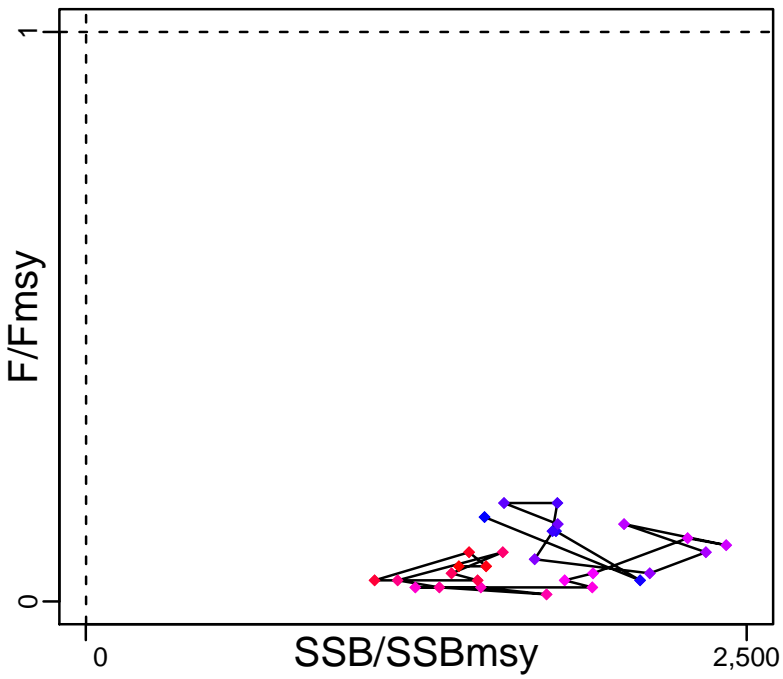
Metadata	
Scientific Name	<i>Peprilus triacanthus</i>
Current Assess ID	NEFSC-BUTTERGOMCHATT-1989-2016-SISIMP2021
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	45,616
Fmsy	Fmsy-1/yr	2016	0.81
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	36,199
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	22,808
Flim	Flim-1/yr	2016	0.81
ERlim	-	-	-

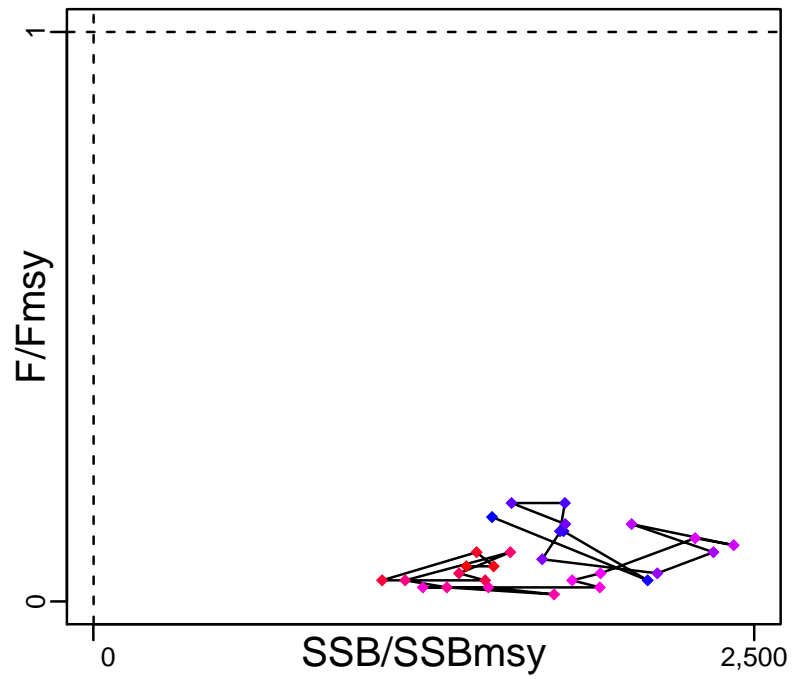
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	64,376,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,893,000	-	0
F	F-1/yr	2016	0.05	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	2944		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	1411		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.062		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

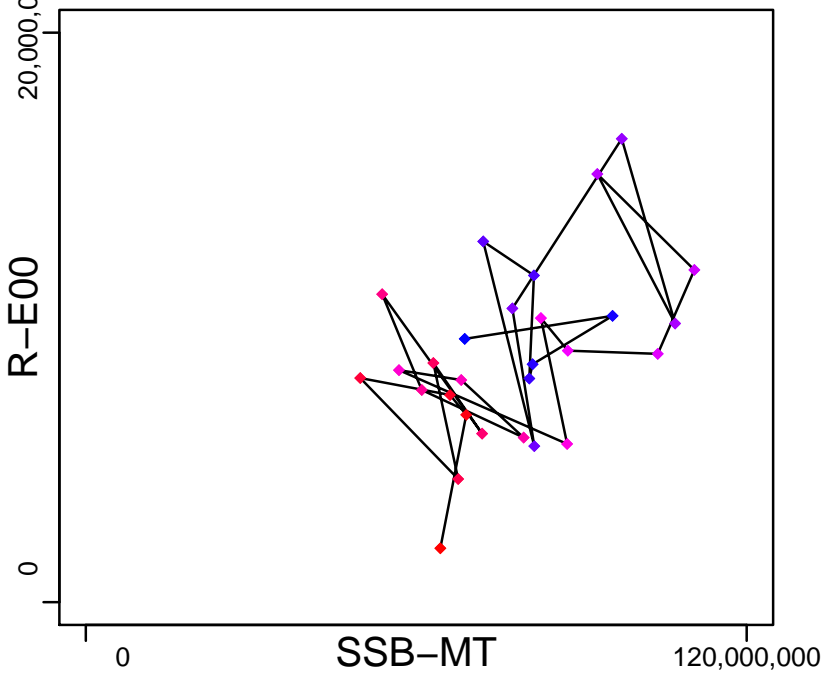
Kobe MSYpref (1989–2016–SISIMP2021)



Kobe MGTpref (1989–2016–SISIMP2021)



Spawner Recruit (1989–2016–SISIMP2021)



Production*



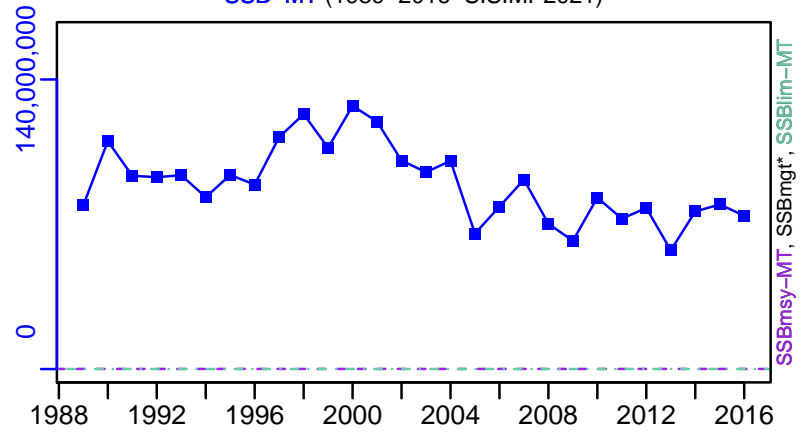
◆ Start Year ◆ End Year * No Data

Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

TB*



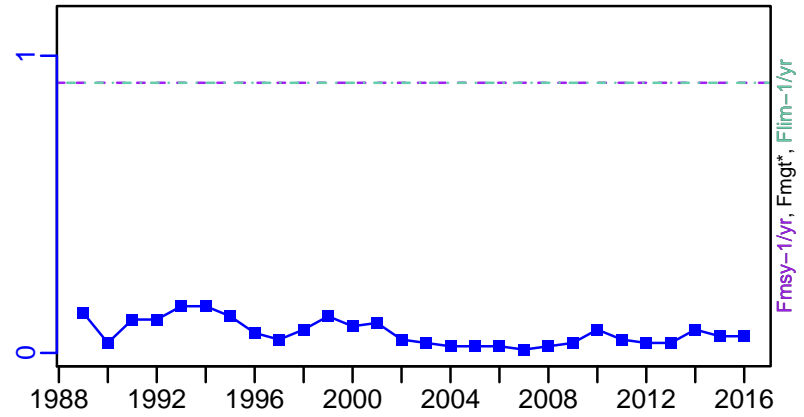
SSB-MT (1989–2016–SISIMP2021)



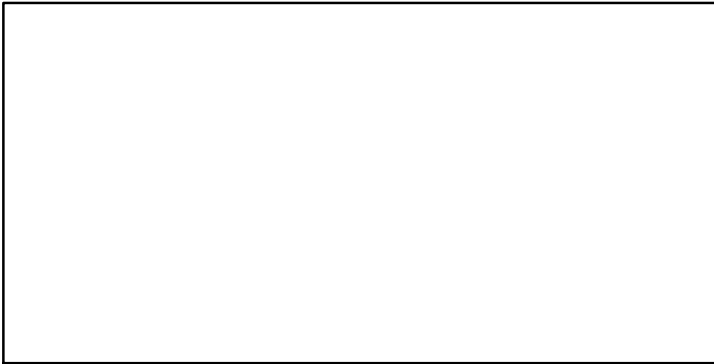
TN *



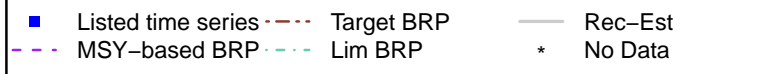
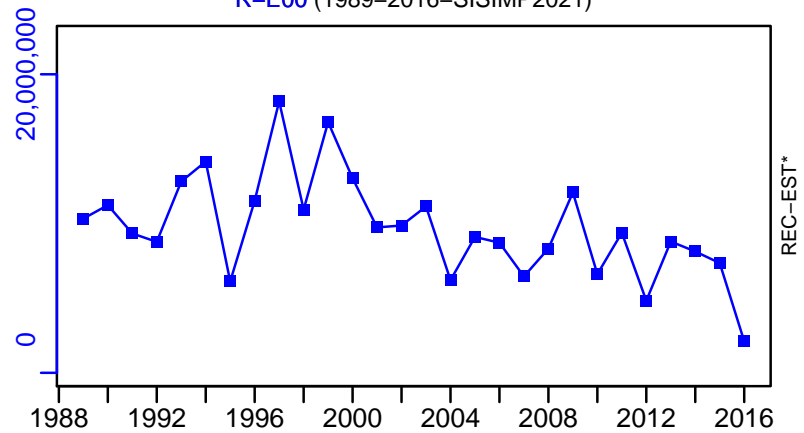
F-1/yr (1989–2016–SISIMP2021)



ER*

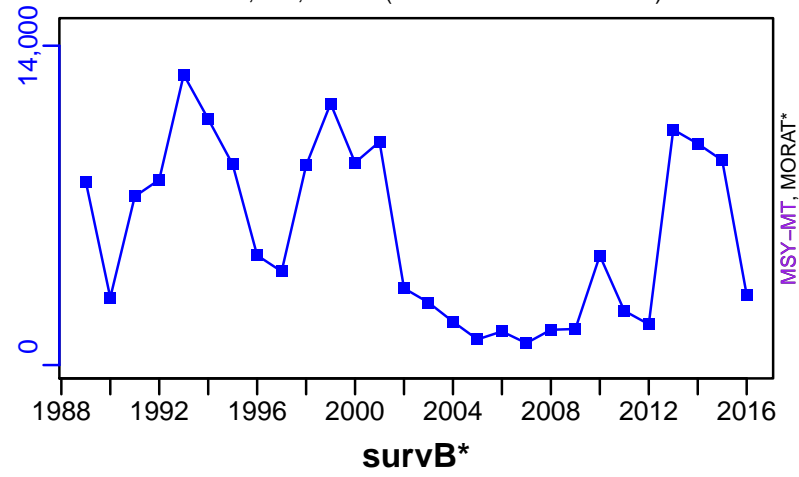


R-E00 (1989–2016–SISIMP2021)



Atlantic butterfish Gulf of Maine / Cape Hatteras [BUTTERGOMCHATT]

TC-MT, TL*, RecC* (1989–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



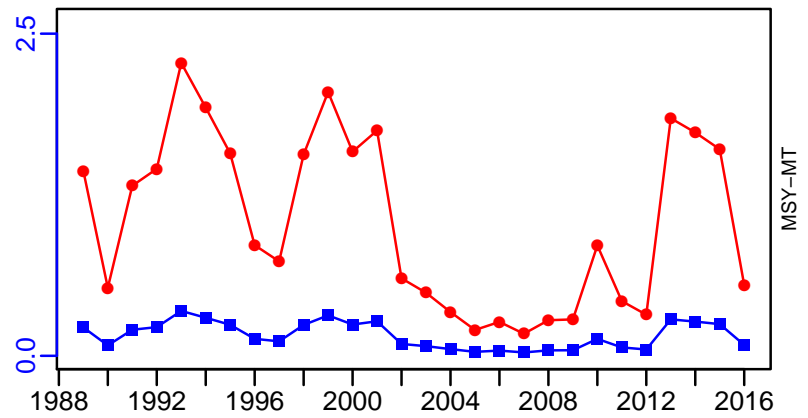
CPUE*



EFFORT*



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



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

Atlantic cod Georges Bank [CODGB]

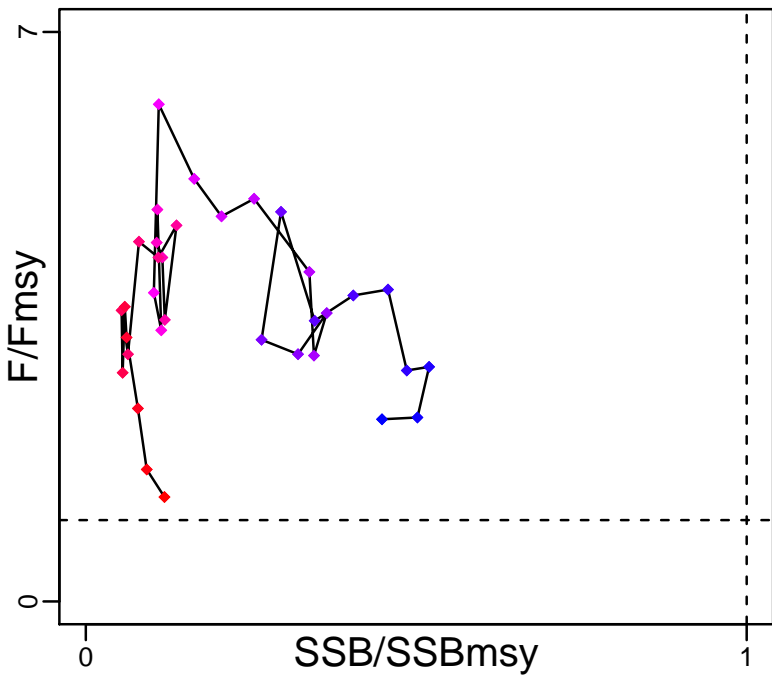
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGB-2007-2016-SISIMP2021
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016

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	-	-	-

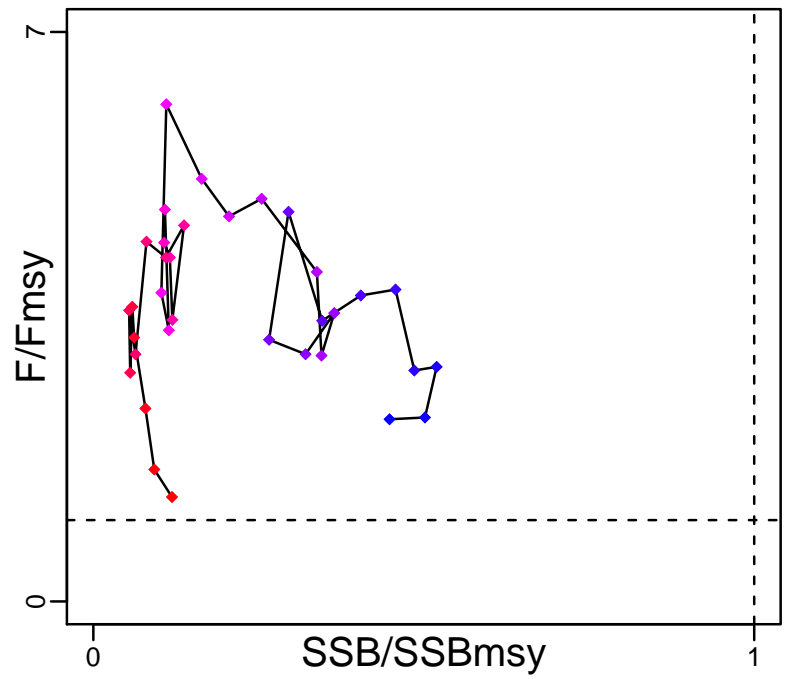
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2011	22,200	-	2.4+
TN	-	-	-	-	-
R	R-E00	2011	7,930,000	-	-
F	F-1/yr	2011	0.231	-	-
ER	ER-ratio	2016	0.174	-	-
TC	TC-MT	2016	1109		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2011	0.119		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	1.283		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Atlantic cod Georges Bank [CODGB]

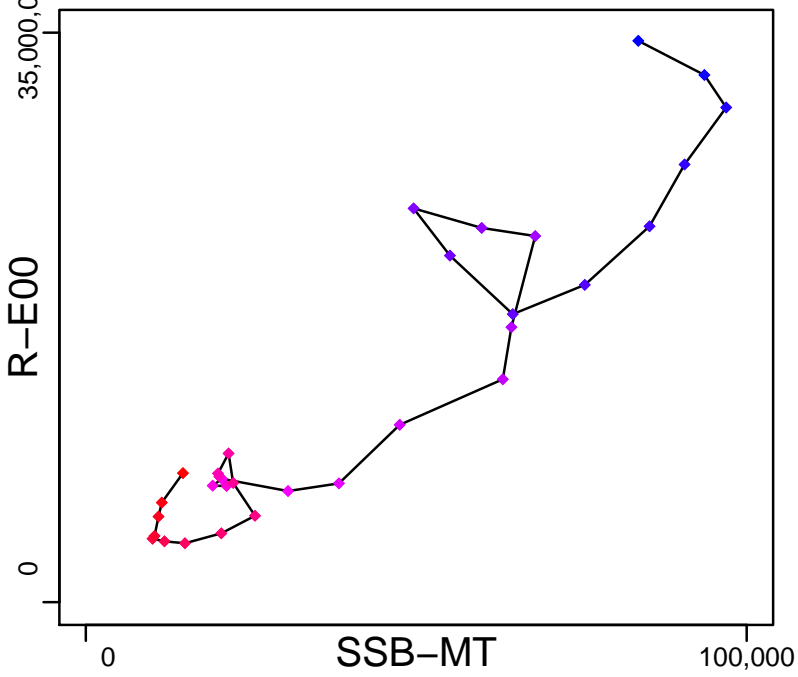
Kobe MSYpref (1976–2011–CHING)



Kobe MGTpref (1976–2011–CHING)



Spawner Recruit (1976–2011–CHING)



Production*



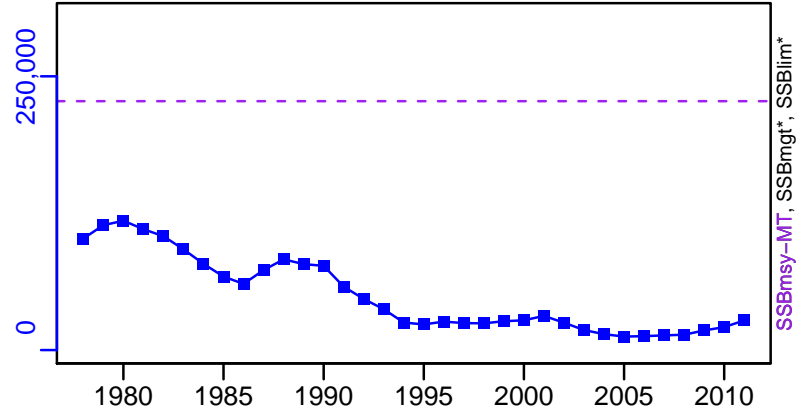
◆ Start Year ◆ End Year * No Data

Atlantic cod Georges Bank [CODGB]

TB*



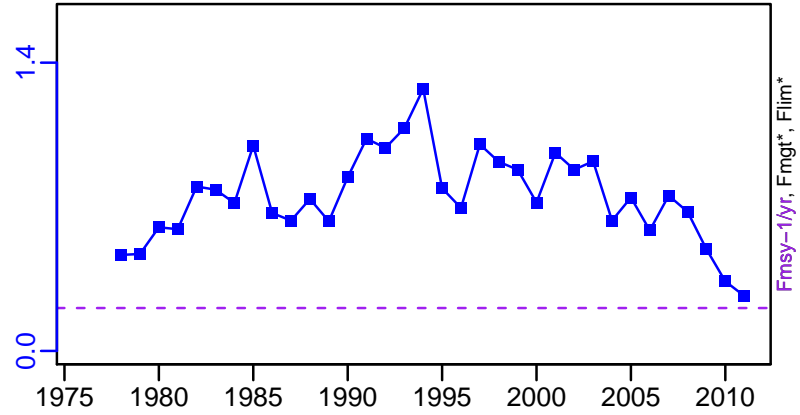
SSB-MT (1976–2011–CHING)



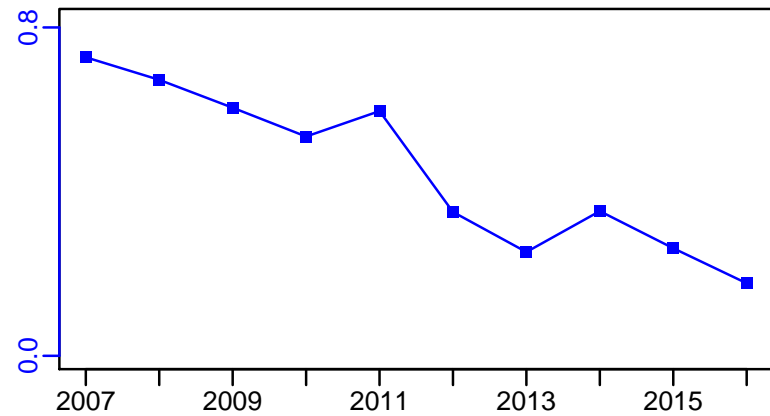
TN *



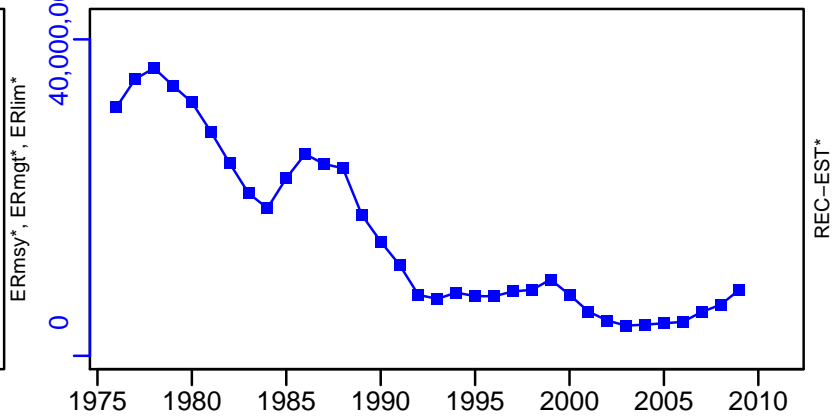
F-1/yr (1976–2011–CHING)



ER-ratio (2007–2016–SISIMP2021)

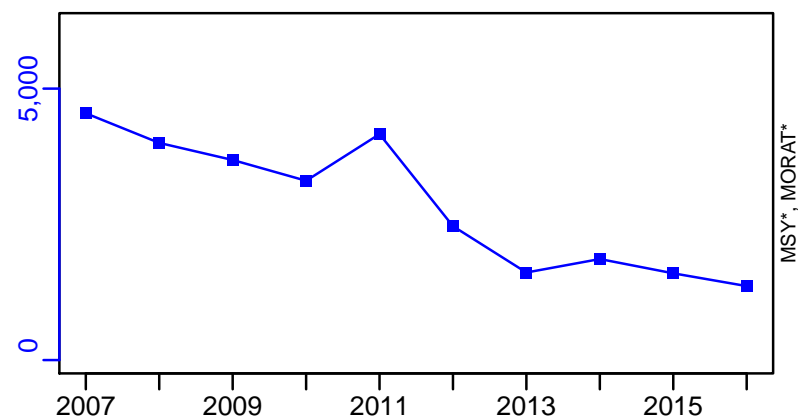


R-E00 (1976–2011–CHING)



Atlantic cod Georges Bank [CODGB]

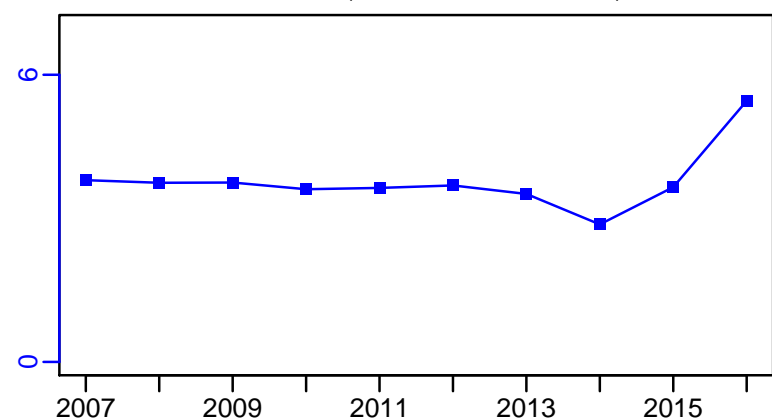
TC-MT, TL*, RecC* (2007-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



survB-index (2007-2016-SISIMP2021)



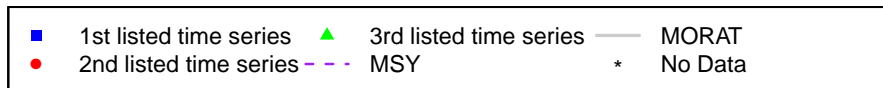
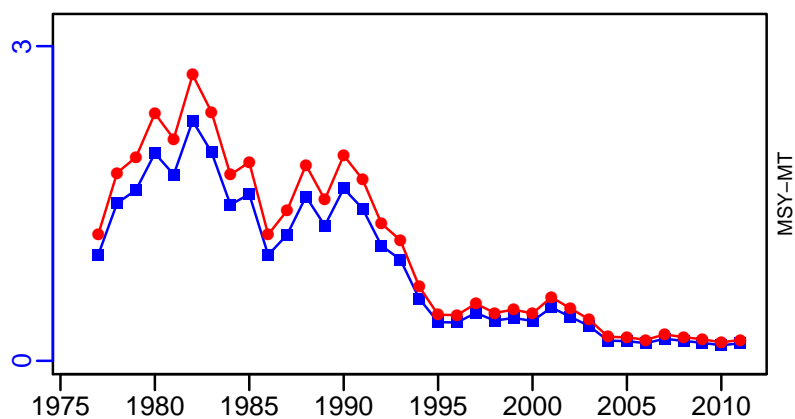
CPUE*



EFFORT*



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



Atlantic cod Gulf of Maine [CODGOM]

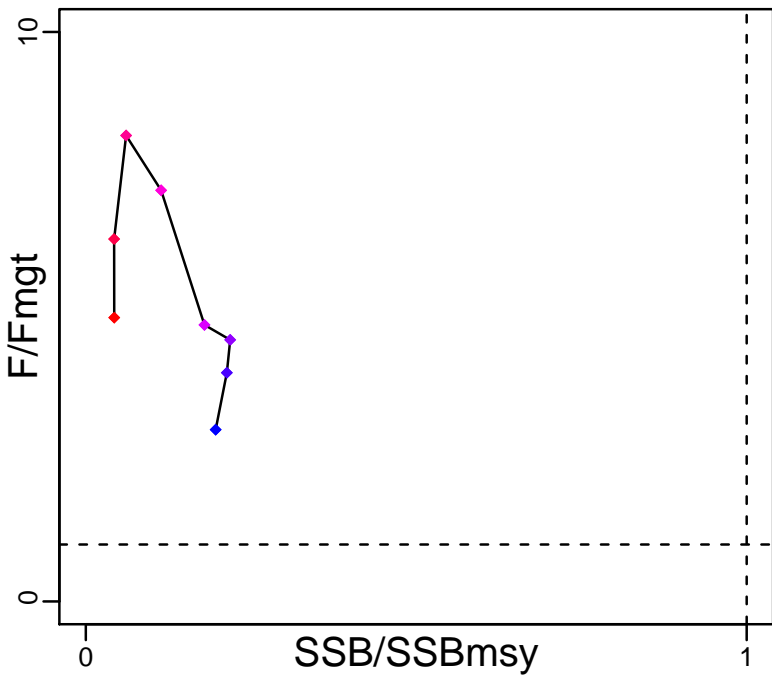
Metadata	
Scientific Name	Gadus morhua
Current Assess ID	NEFSC-CODGOM-1982-2016-SISIMP2021
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014

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	-	-	-

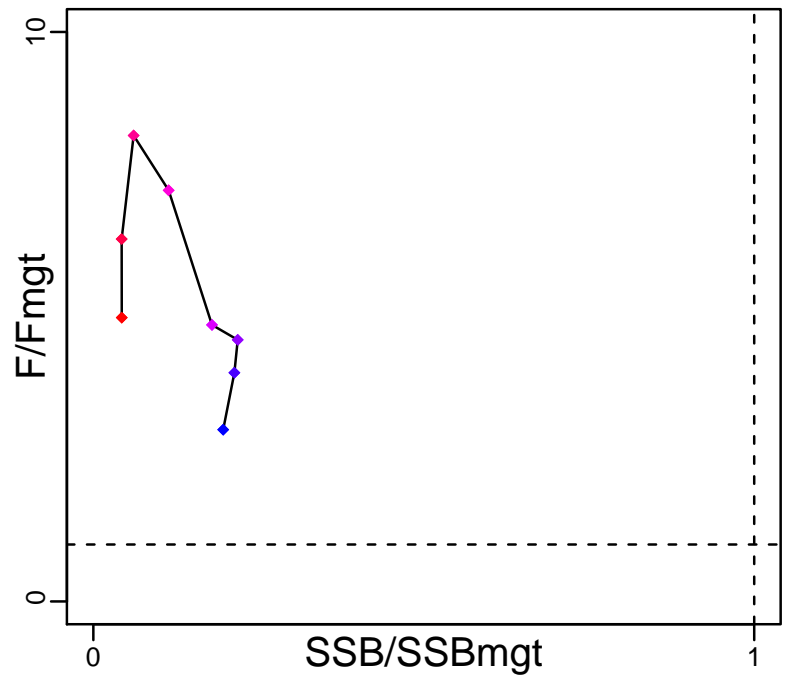
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2540	-	-
TN	-	-	-	-	-
R	R-E00	2014	3,210,000	-	1
F	F-1/yr	2014	0.932	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	599		
TL	TL-MT	2014	832		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.043		
F/Fmsy	F-1/yr/Fmsy-1/yr	2011	4.878		
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]

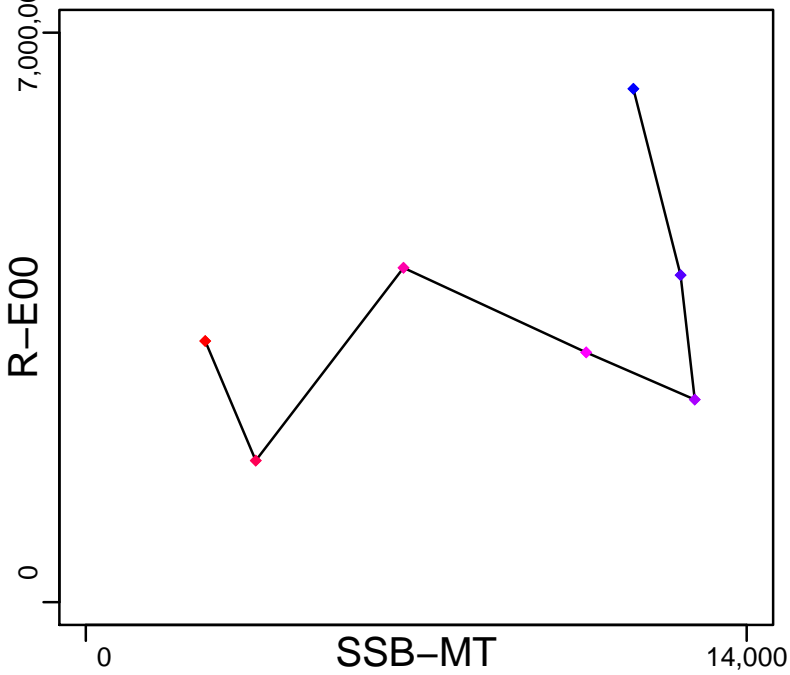
Kobe MSYpref (2006–2014–ASHBROOK)



Kobe MGTpref (2006–2014–ASHBROOK)



Spawner Recruit (2006–2014–ASHBROOK)



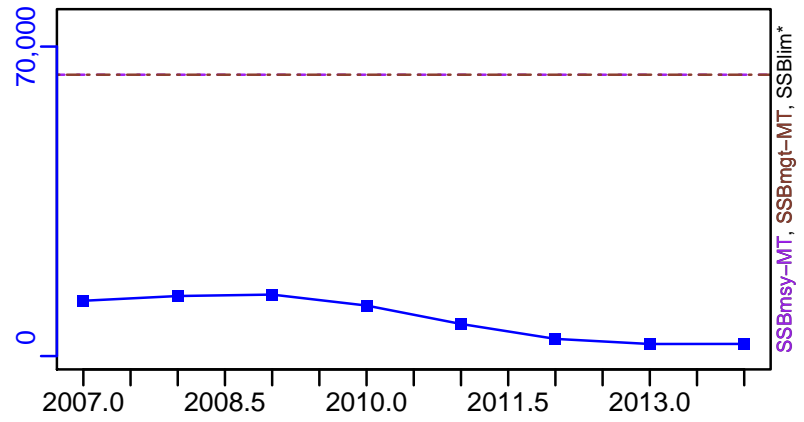
◆ Start Year ◆ End Year * No Data

Atlantic cod Gulf of Maine [CODGOM]

TB*



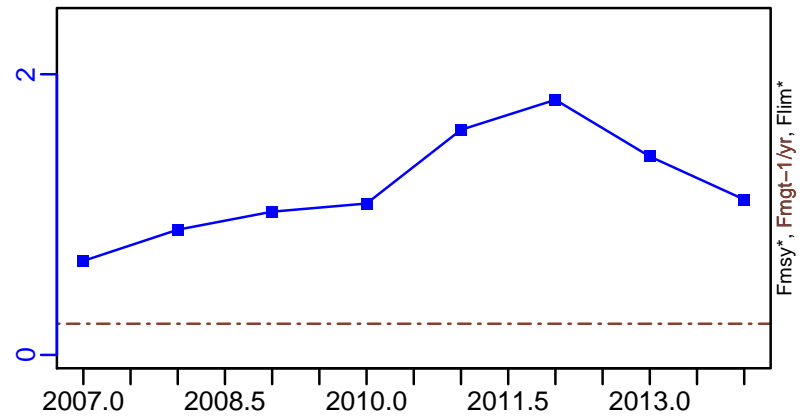
SSB-MT (2006–2014–ASHBROOK)



TN *



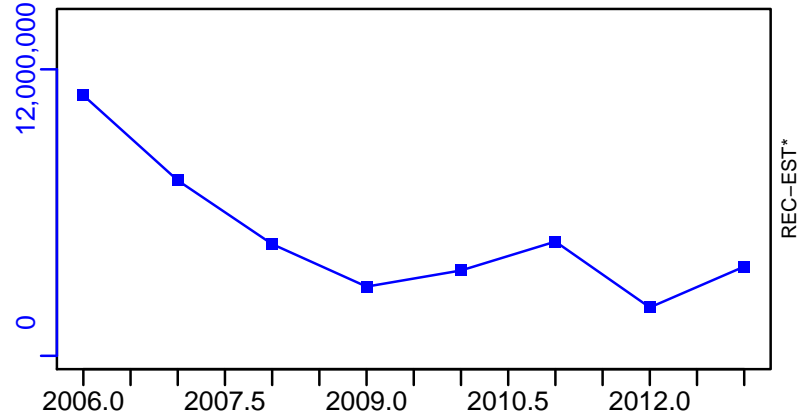
F-1/yr (2006–2014–ASHBROOK)



ER*

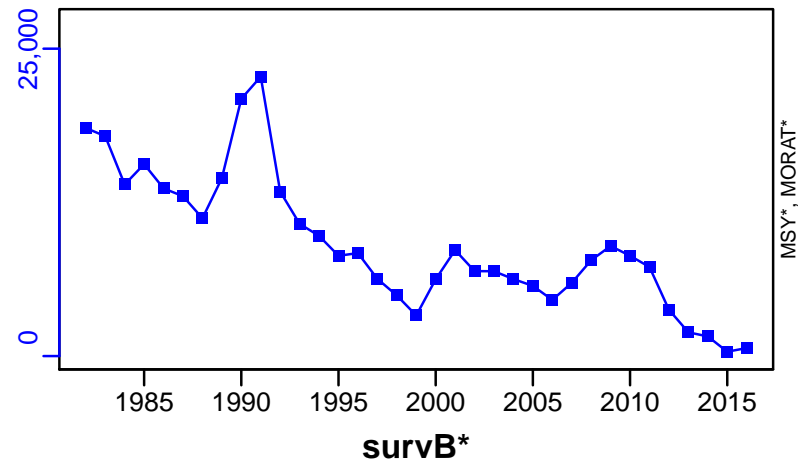


R-E00 (2006–2014–ASHBROOK)



Atlantic cod Gulf of Maine [CODGOM]

TC-MT, TL*, RecC* (1982-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



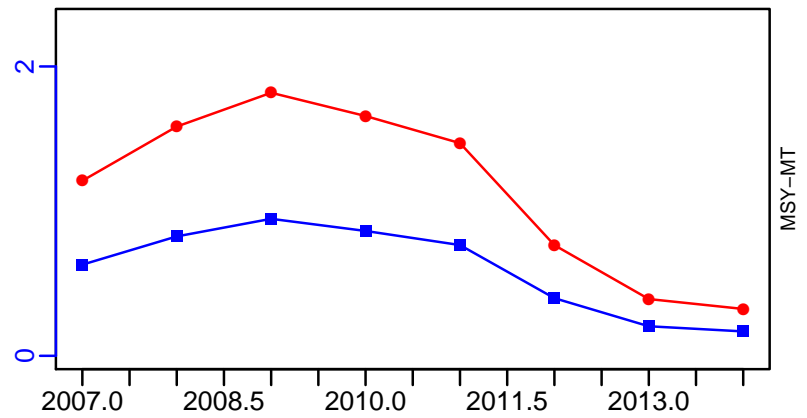
CPUE*



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-1975-2005-SOSEBEE
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005

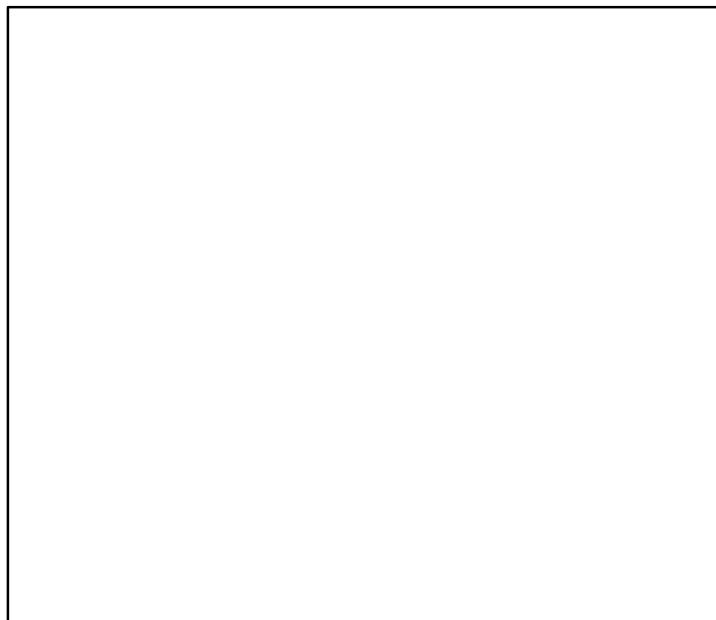
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2005	32		
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 *



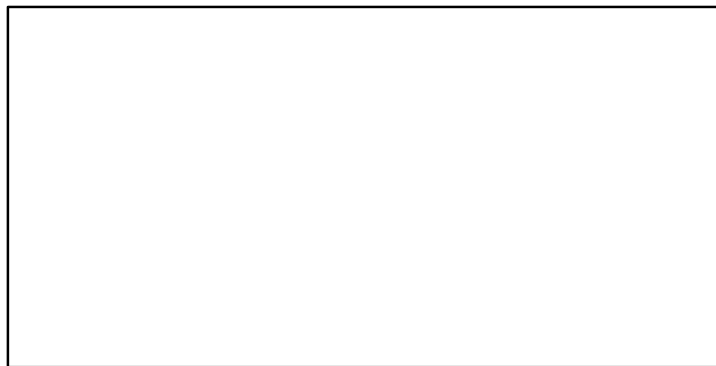
F*



ER*

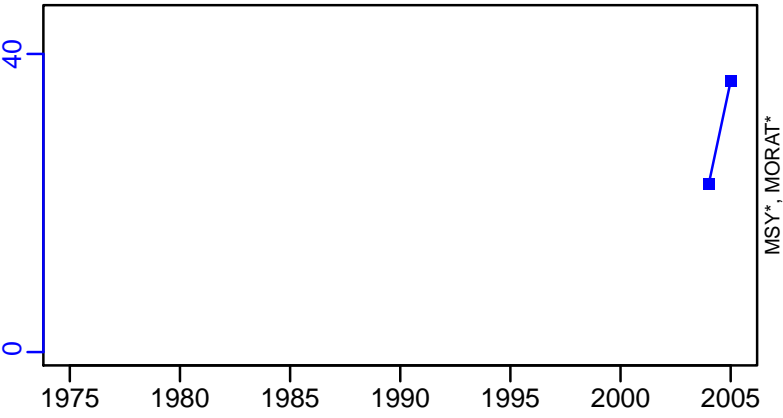


Recruits*



Clearnose skate Mid-Atlantic Coast [CSKATMATLC]

TC-MT, TL*, RecC* (1975-2005-SOSEBEE)



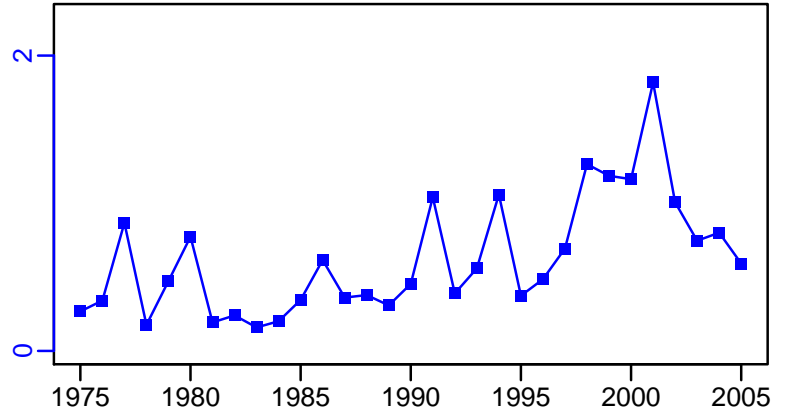
TAC*, Cpair*, Cadv*



survB*



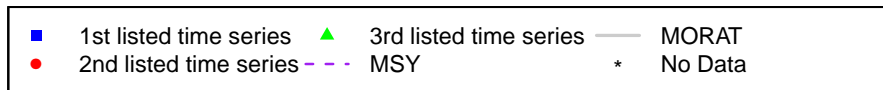
CPUE-kgpertow (1975-2005-SOSEBEE)



EFFORT*



CdivMSY*



Haddock Gulf of Maine [HAD5Y]

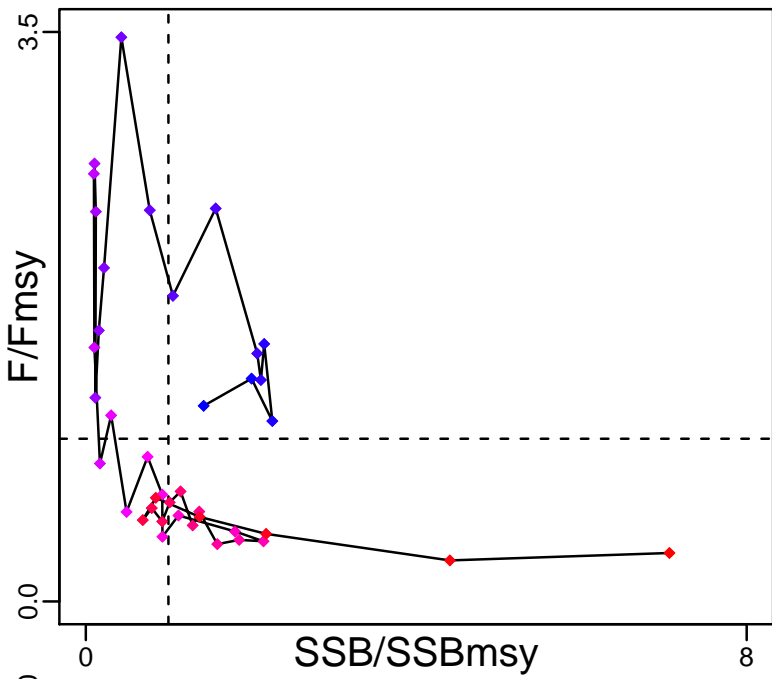
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HAD5Y-1976-2016-SISIMP2021
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	6769
Fmsy	Fmsy-1/yr	2016	0.46
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	1547
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	3384
Flim	Flim-1/yr	2016	0.46
ERlim	-	-	-

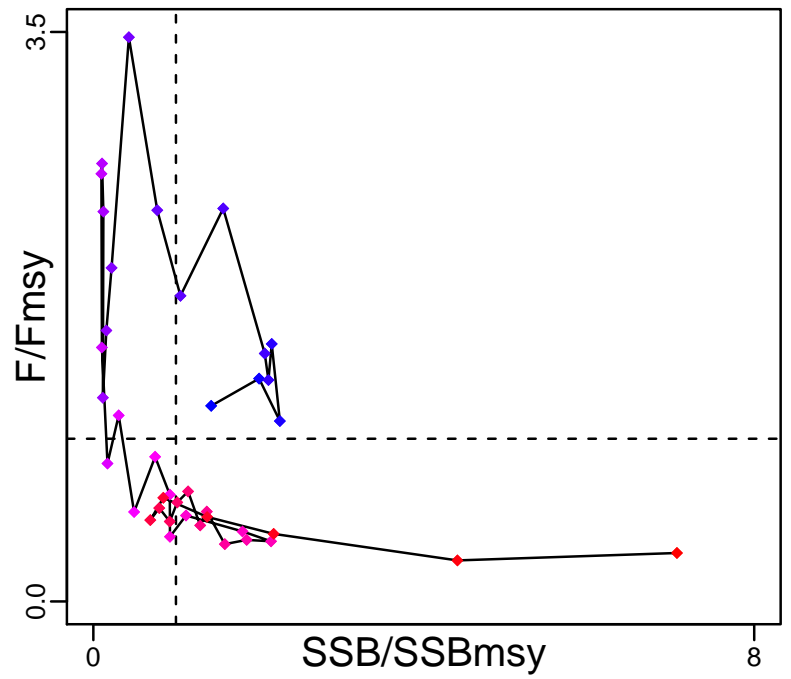
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	2580	-	-
SSB	SSB-MT	2016	47,821	-	-
TN	-	-	-	-	-
R	R-E00	2016	3,638,000	-	1
F	F-1/yr	2016	0.137	-	-
ER	ER-ratio	2011	0.359	-	-
TC	TC-MT	2016	2313		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	7.065		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.298		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Gulf of Maine [HAD5Y]

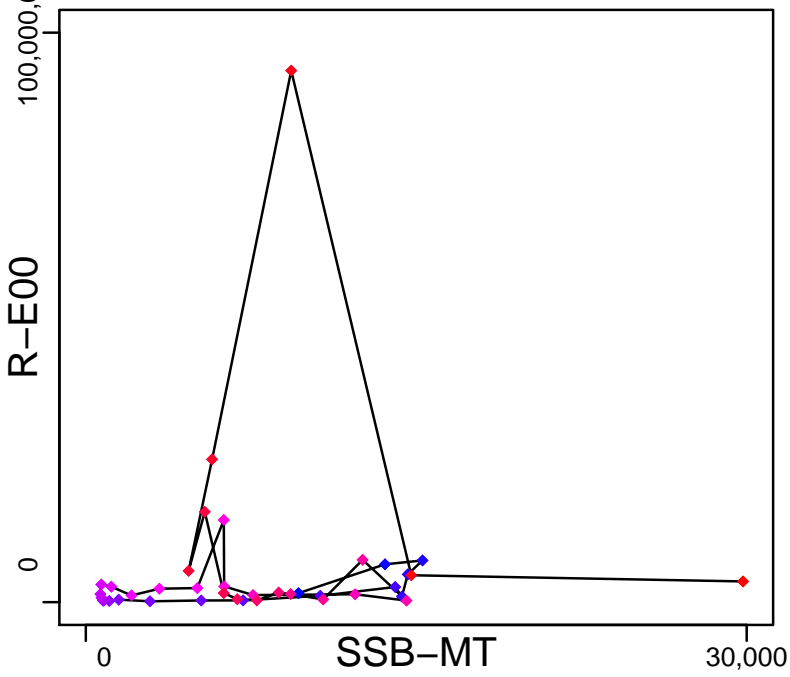
Kobe MSYpref (1976–2016–SISIMP2021)



Kobe MGTpref (1976–2016–SISIMP2021)



Spawner Recruit (1976–2016–SISIMP2021)



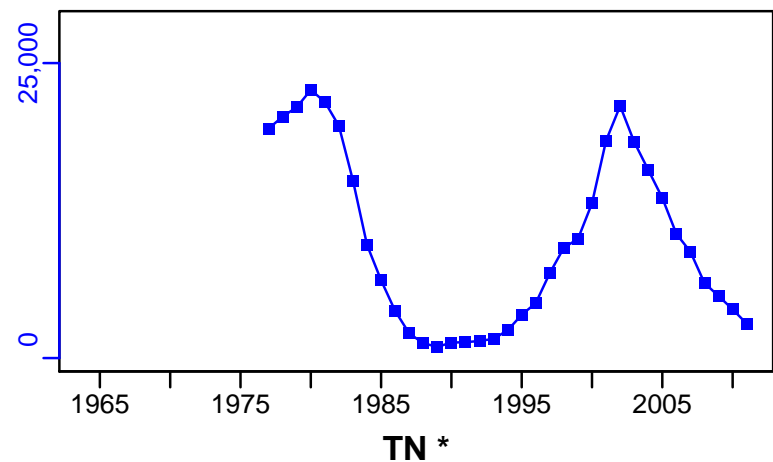
Production*



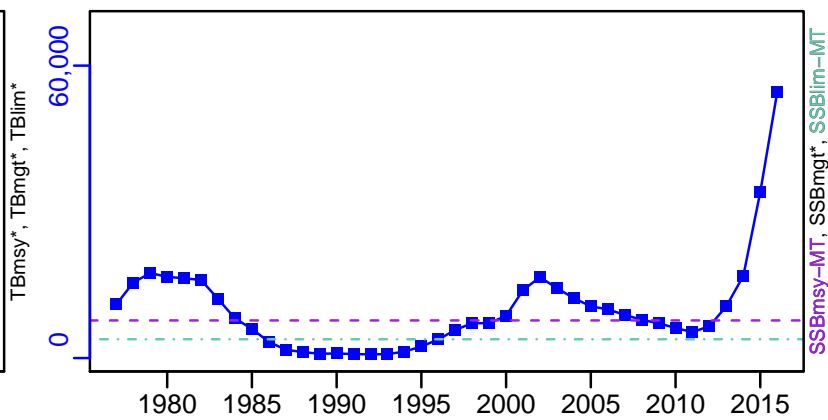
◆ Start Year ◆ End Year * No Data

Haddock Gulf of Maine [HAD5Y]

TB-MT (1964–2011–CHING)



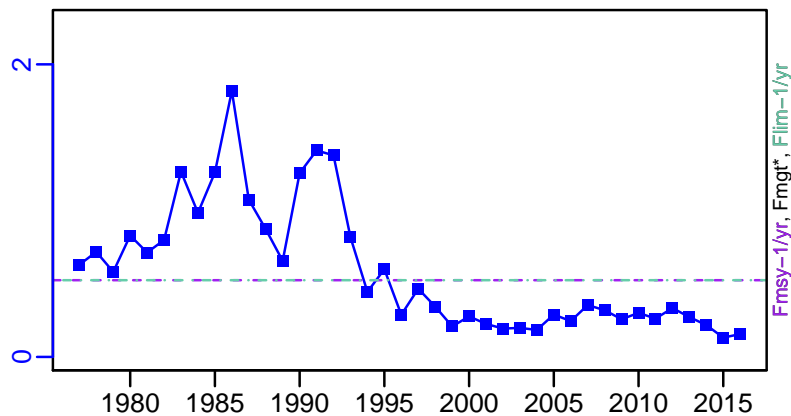
SSB-MT (1976–2016–SISIMP2021)



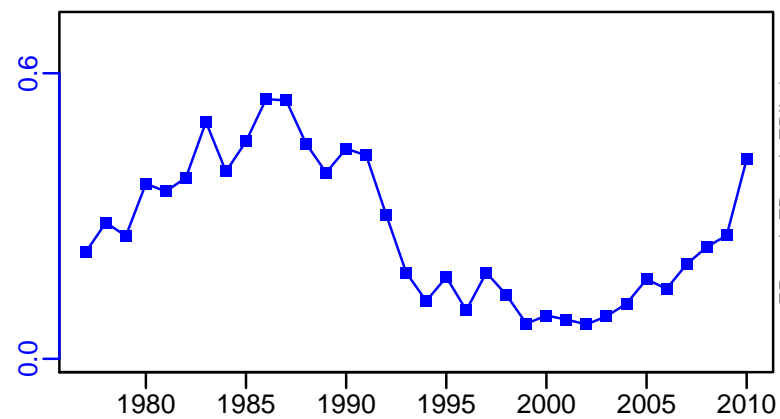
TN *



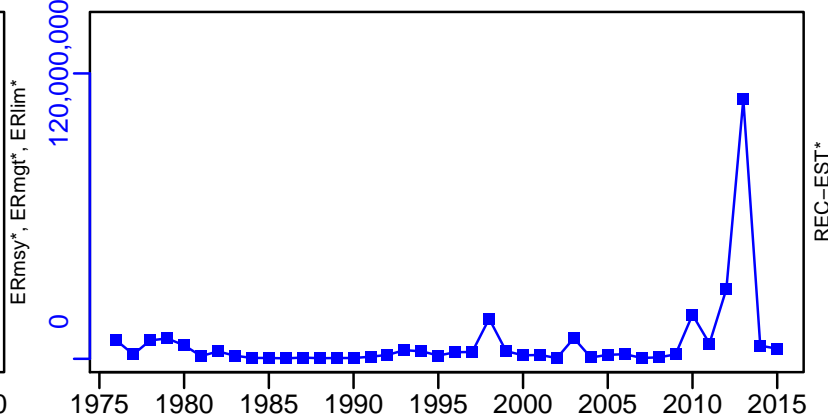
F-1/yr (1976–2016–SISIMP2021)



ER-ratio (1964–2011–CHING)

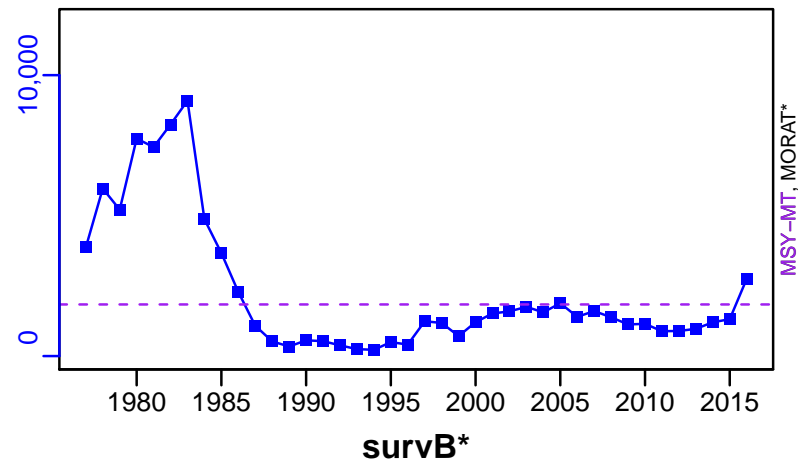


R-E00 (1976–2016–SISIMP2021)



Haddock Gulf of Maine [HAD5Y]

TC-MT, TL*, RecC* (1976-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



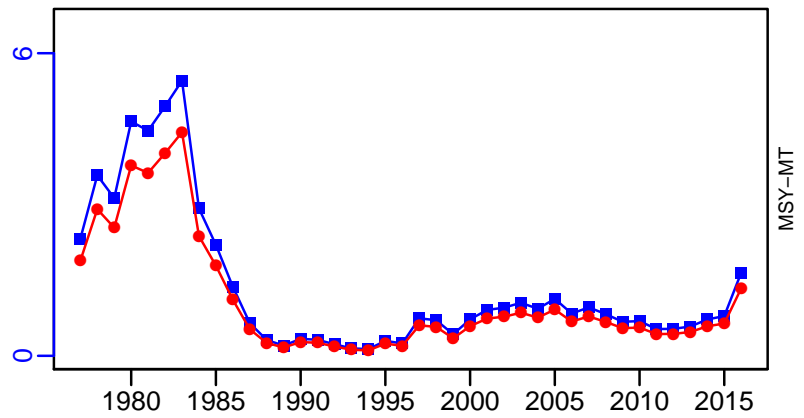
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1976-2016-SISIMP2021)



Haddock Georges Bank [HADGB]

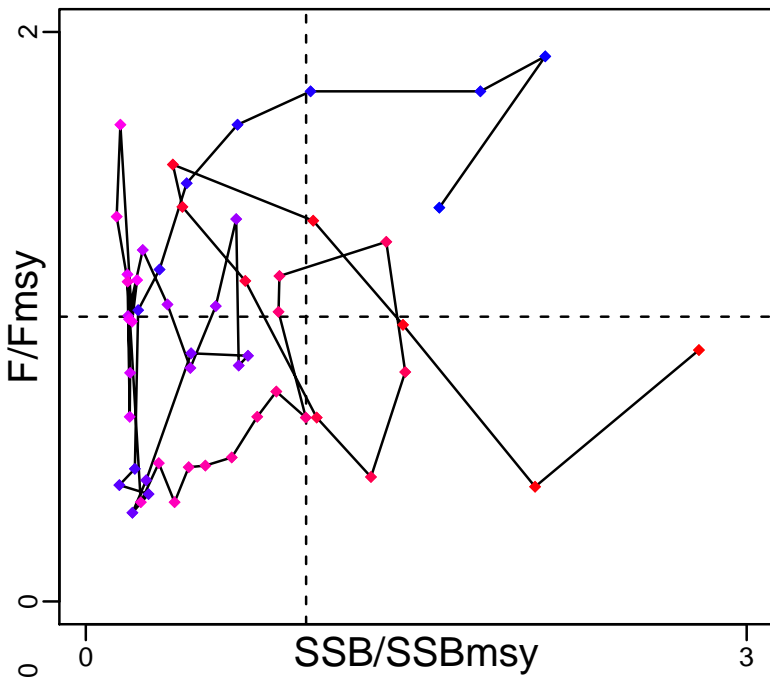
Metadata	
Scientific Name	Melanogrammus aeglefinus
Current Assess ID	NEFSC-HADGB-1963-2016-SISIMP2021
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	104,312
Fmsy	Fmsy-1/yr	2016	0.35
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	24,372
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	52,156
Flim	Flim-1/yr	2016	0.35
ERlim	-	-	-

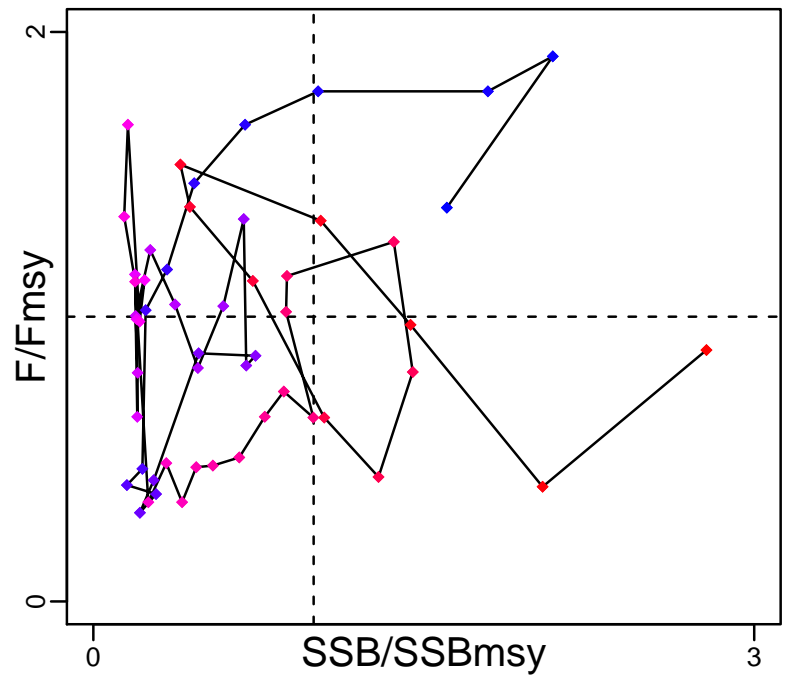
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	290,324	-	-
TN	-	-	-	-	-
R	R-E00	2016	88,436,000	-	1
F	F-1/yr	2016	0.309	-	-
ER	ER-ratio	2010	0.074	-	-
TC	TC-MT	2016	17,274		
TL	TL-MT	2010	21,500		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.783		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.883		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Haddock Georges Bank [HADGB]

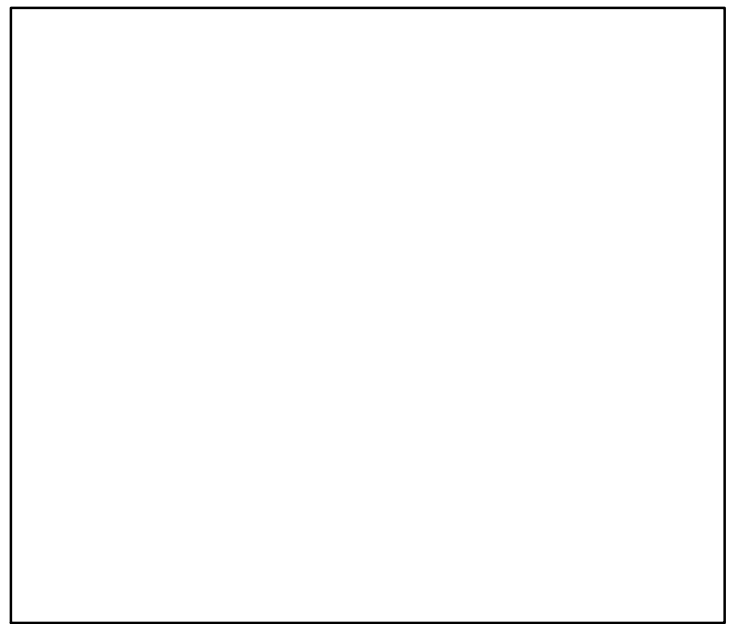
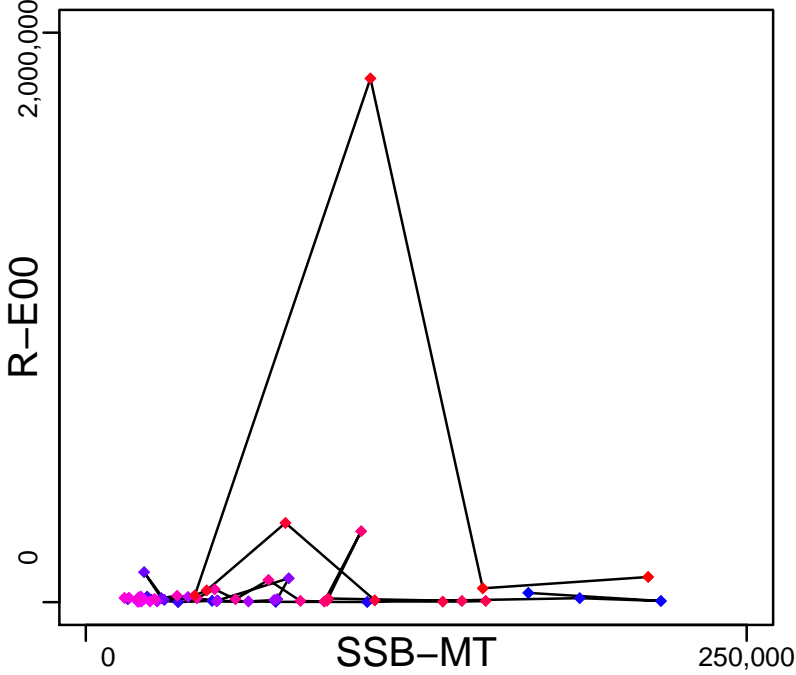
Kobe MSYpref (1963–2016–SISIMP2021)



Kobe MGTpref (1963–2016–SISIMP2021)



Spawner Recruit (1963–2016–SISIMP2021)



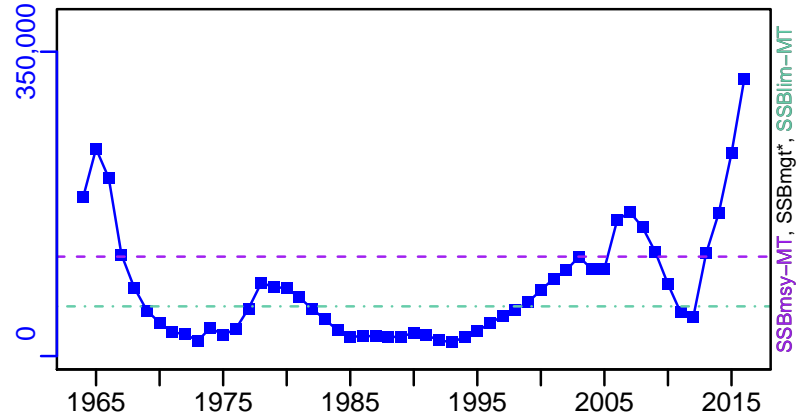
◆ Start Year ◆ End Year * No Data

Haddock Georges Bank [HADGB]

TB*



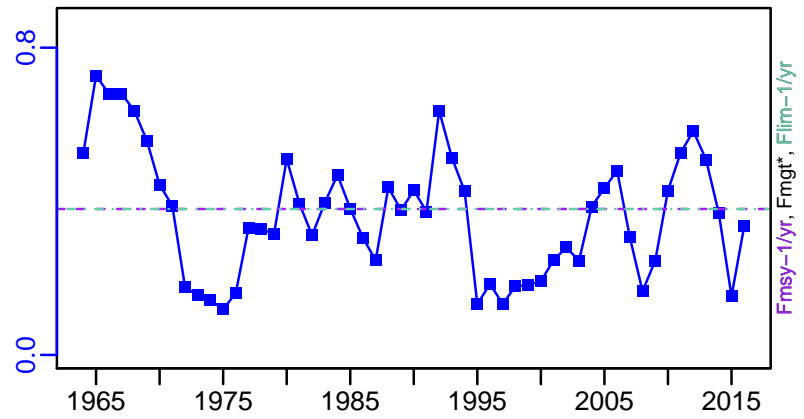
SSB-MT (1963–2016–SISIMP2021)



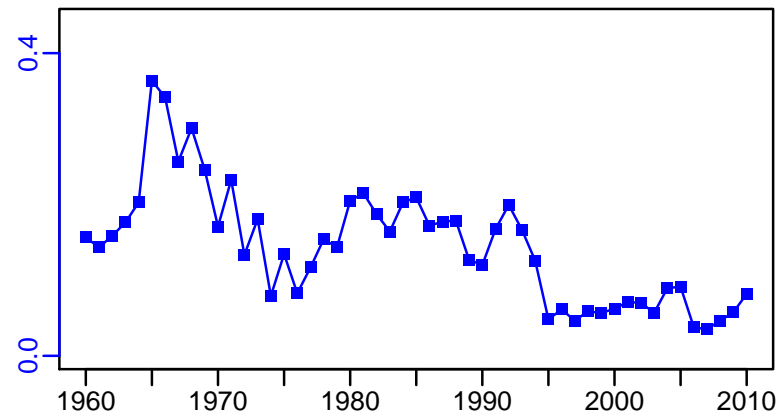
TN *



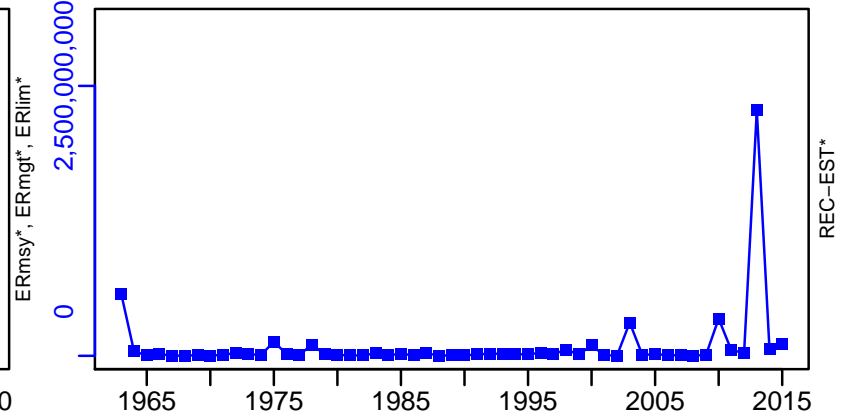
F-1/yr (1963–2016–SISIMP2021)



ER-ratio (1931–2010–CHING)

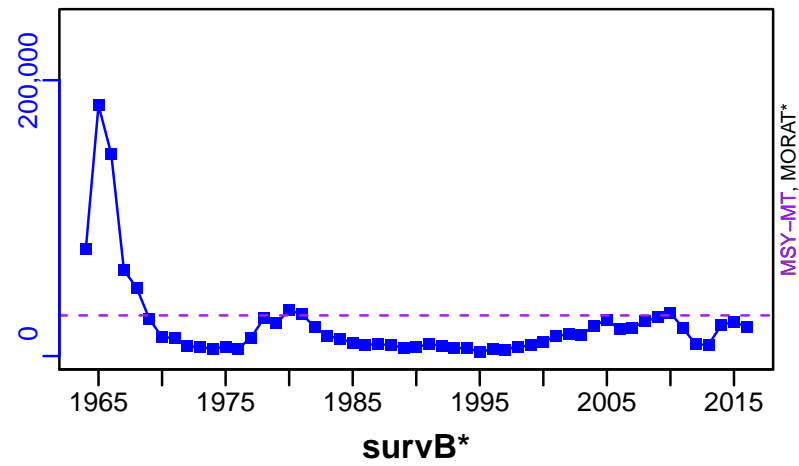


R-E00 (1963–2016–SISIMP2021)



Haddock Georges Bank [HADGB]

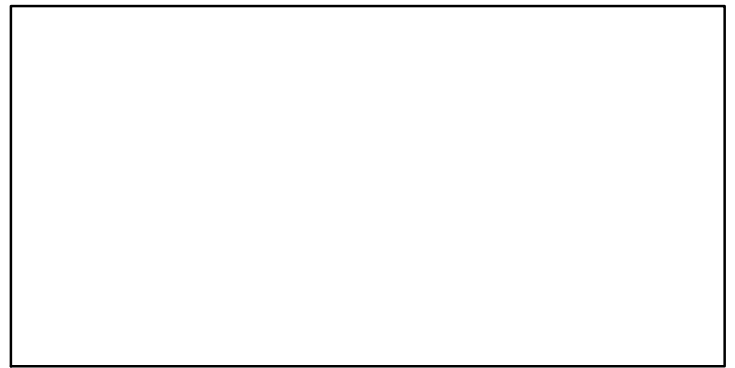
TC-MT, TL*, RecC* (1963–2016–SISIMP2021)



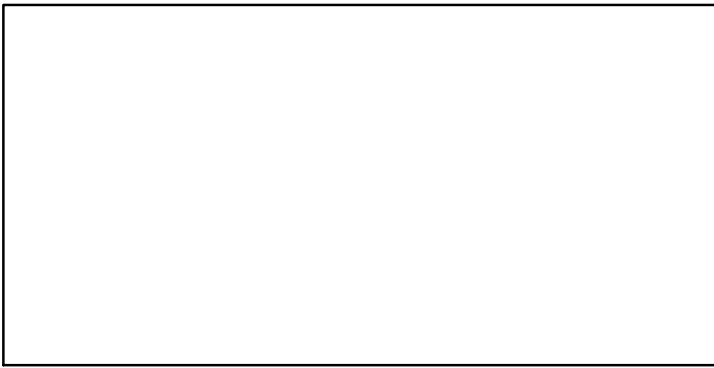
TAC*, Cpair*, Cadv*



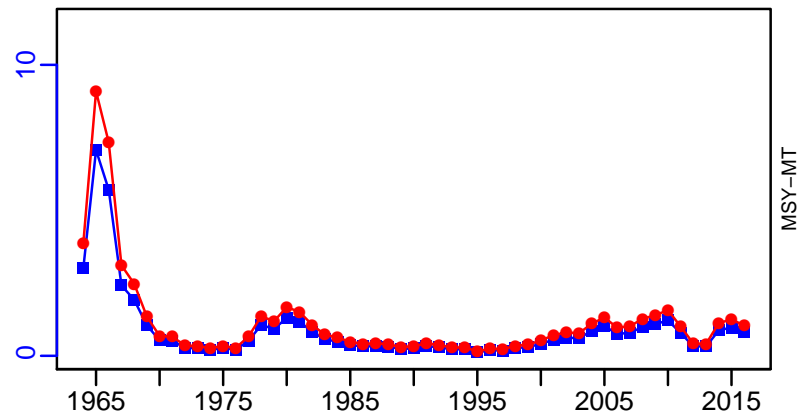
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1963–2016–SISIMP2021)



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

Herring Northwestern Atlantic Coast [HERRNWATLC]

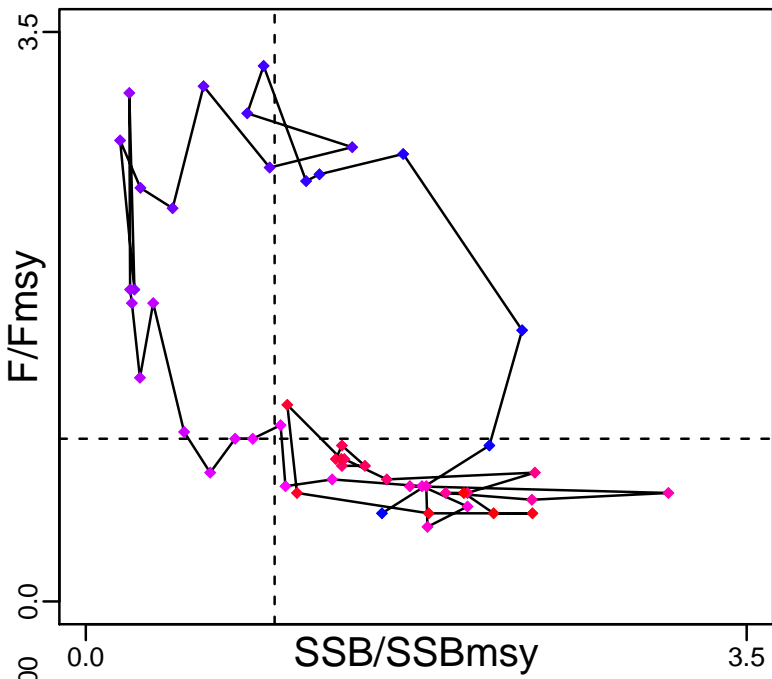
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	NEFSC-HERRNWATLC-1964-2017-SISIMP2021
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2017, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2014	311,145
Fmsy	Fmsy-1/yr	2014	0.24
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2017	112,000
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2014	155,572
Flim	Flim-1/yr	2014	0.24
ERlim	-	-	-

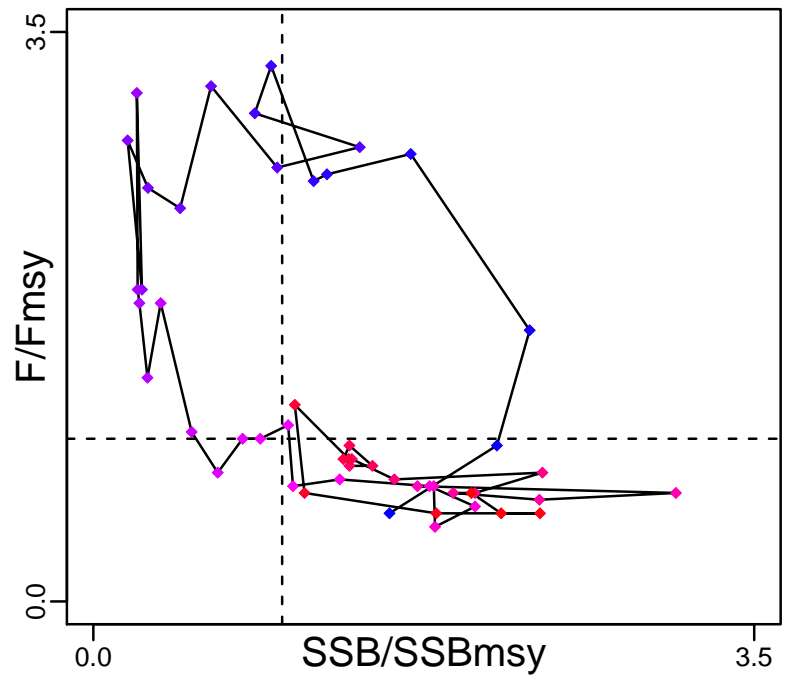
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	1,320,000	-	-
SSB	SSB-MT	2014	623,000	-	-
TN	-	-	-	-	-
R	R-MT	2017	239,472,000	-	1
F	F-1/yr	2014	0.16	-	5
ER	ER-calc-ratio	2011	0.064	-	-
TC	TC-MT	2017	50,250		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	2.002		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	0.667		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Herring Northwestern Atlantic Coast [HERRNWATLC]

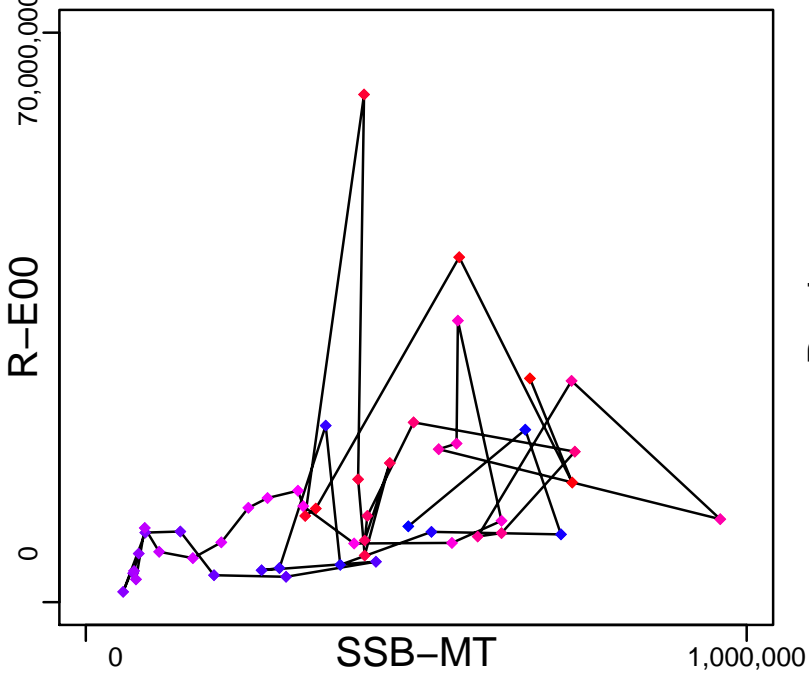
Kobe MSYpref (1965–2014–SISIMP2016)



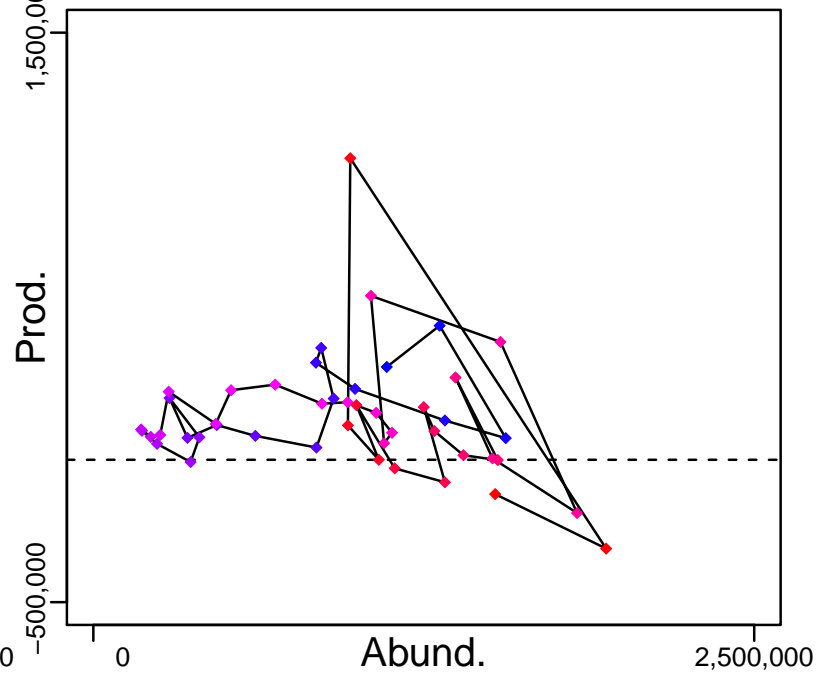
Kobe MGTpref (1965–2014–SISIMP2016)



Spawner Recruit (1965–2014–SISIMP2016)



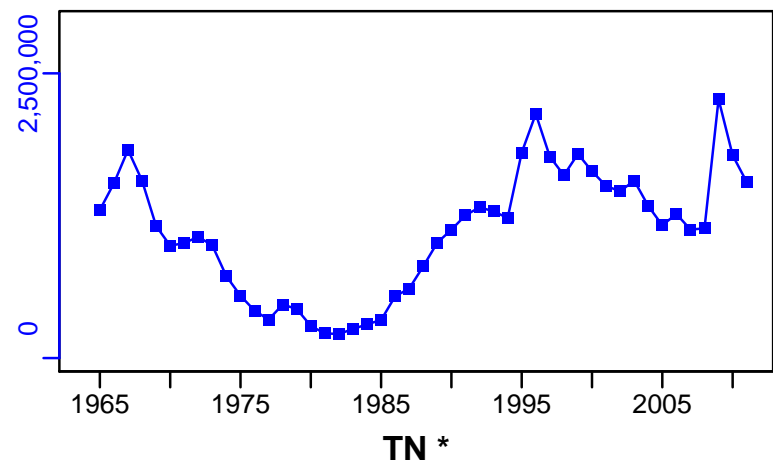
Production (1964–2011–HIVELY)



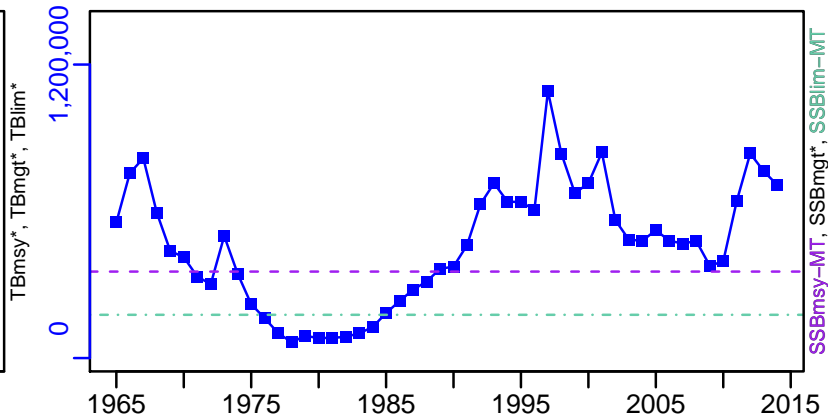
◆ Start Year ◆ End Year * No Data

Herring Northwestern Atlantic Coast [HERRNWATLC]

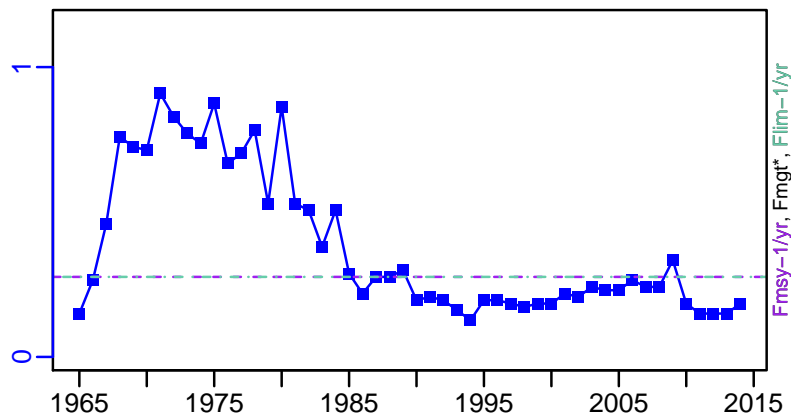
TB-MT (1964–2011–HIVELY)



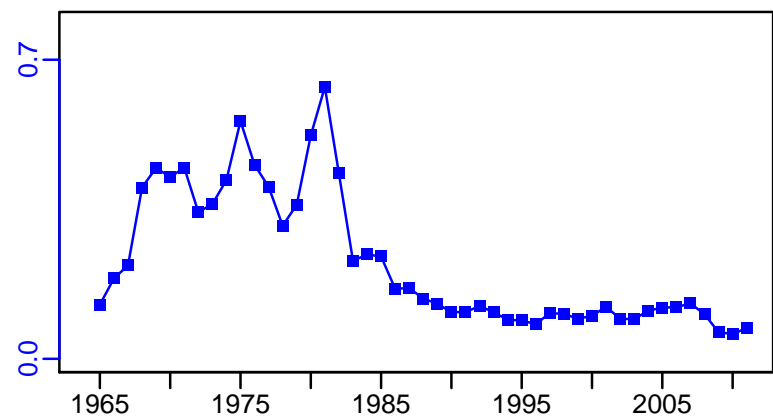
SSB-MT (1965–2014–SISIMP2016)



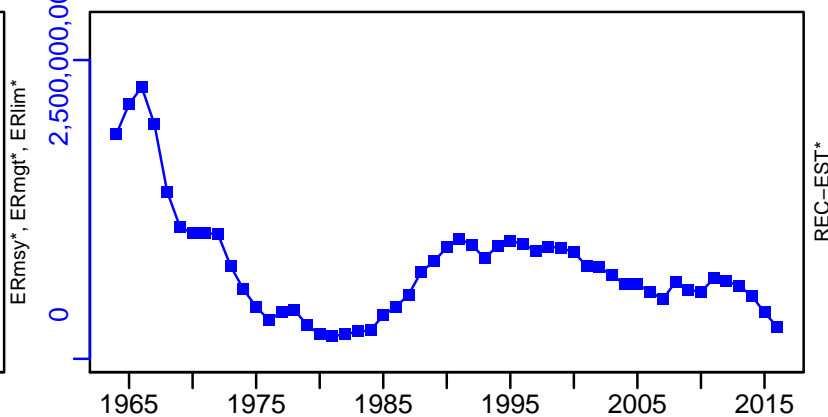
F-1/yr (1965–2014–SISIMP2016)



ER-calc-ratio (1964–2011–HIVELY)



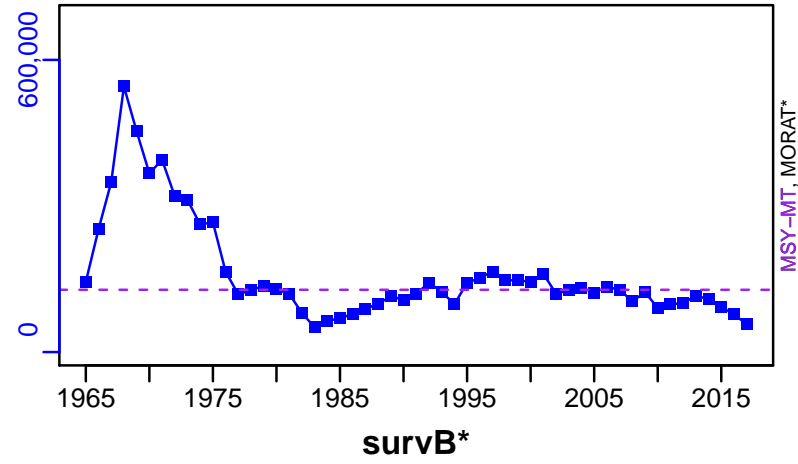
R-MT (1964–2017–SISIMP2021)



Herring Northwestern Atlantic Coast [HERRNWATLC]

TC-MT, TL*, RecC* (1964–2017–SISIMP2021)

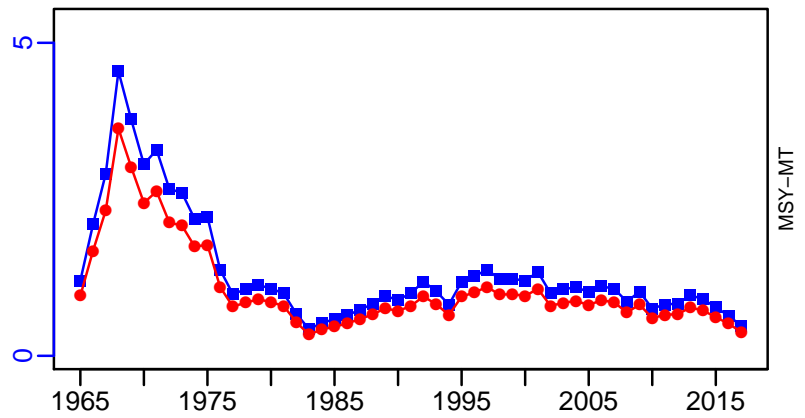
TAC*, Cpair*, Cadv*



EFFORT*



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



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*

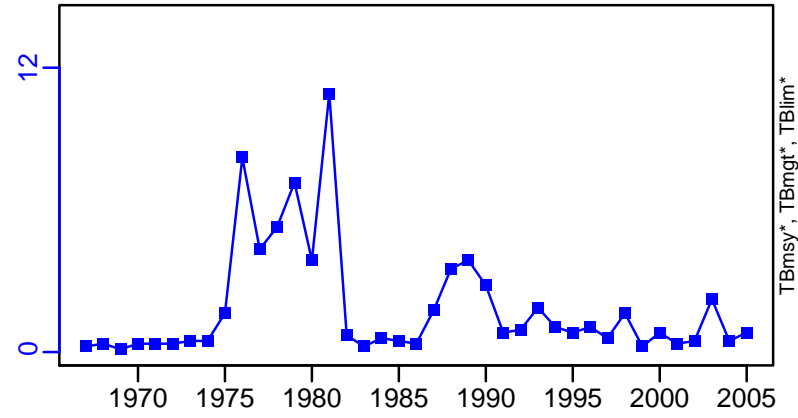


◆ Start Year ◆ End Year * No Data

Northern shortfin squid Northwestern Atlantic Coast [ILLEXNWATLC]

TB-relative (1967–2005–HENDRICKSON)

SSB*

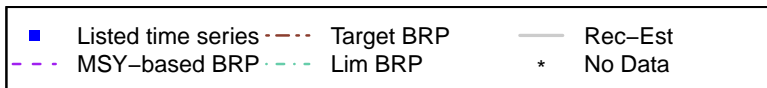


TN *

F*

ER*

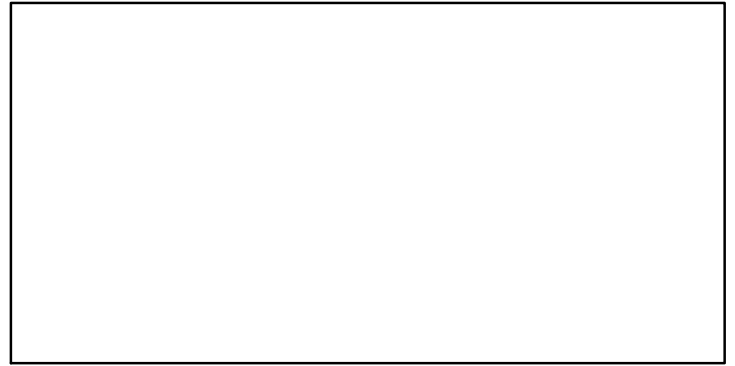
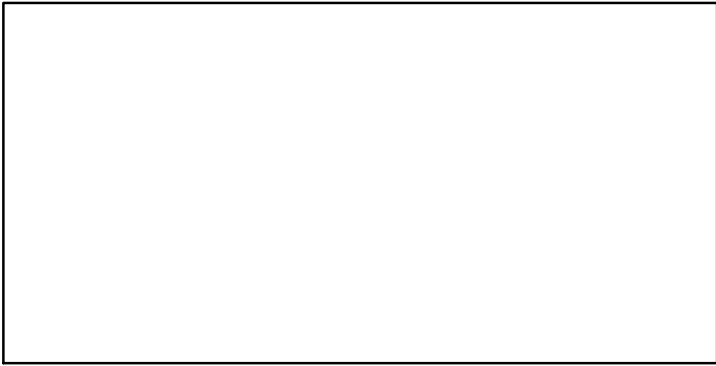
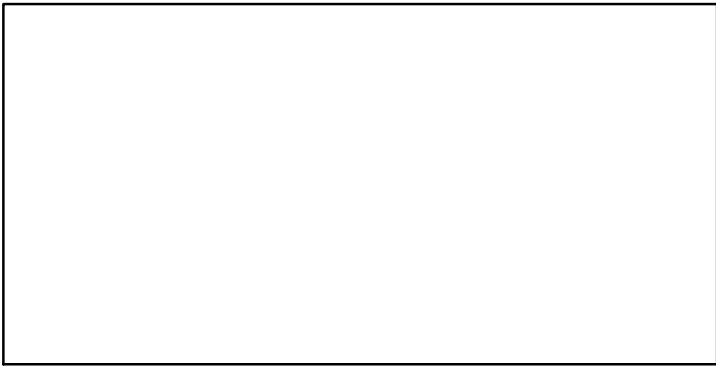
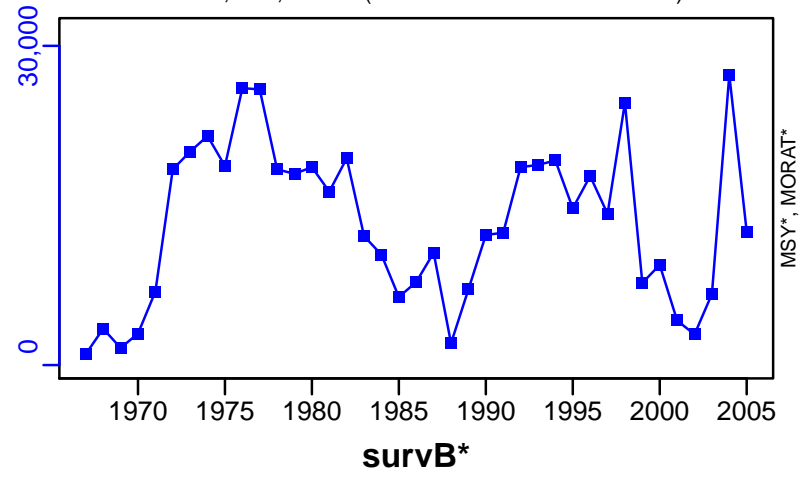
Recruits*



Northern shortfin squid Northwest Atlantic Coast [ILLEXNWATLC]

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

TAC*, Cpair*, Cadv*

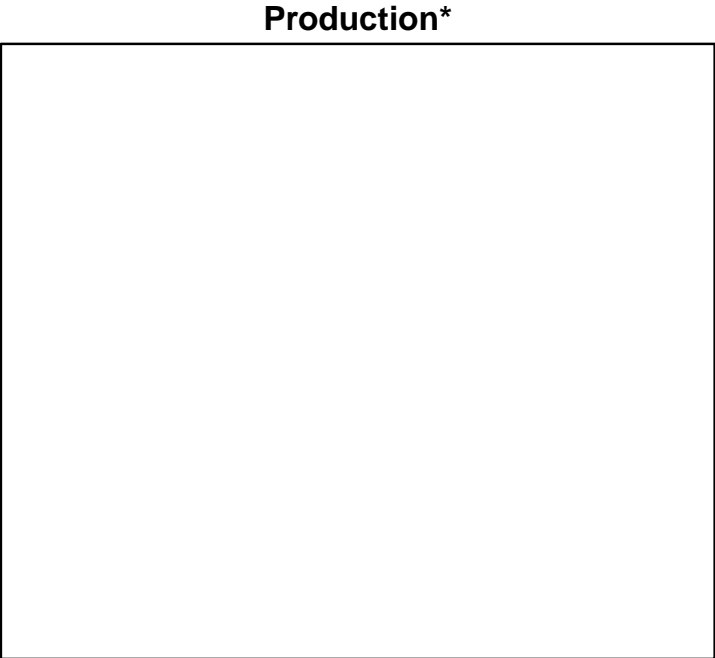
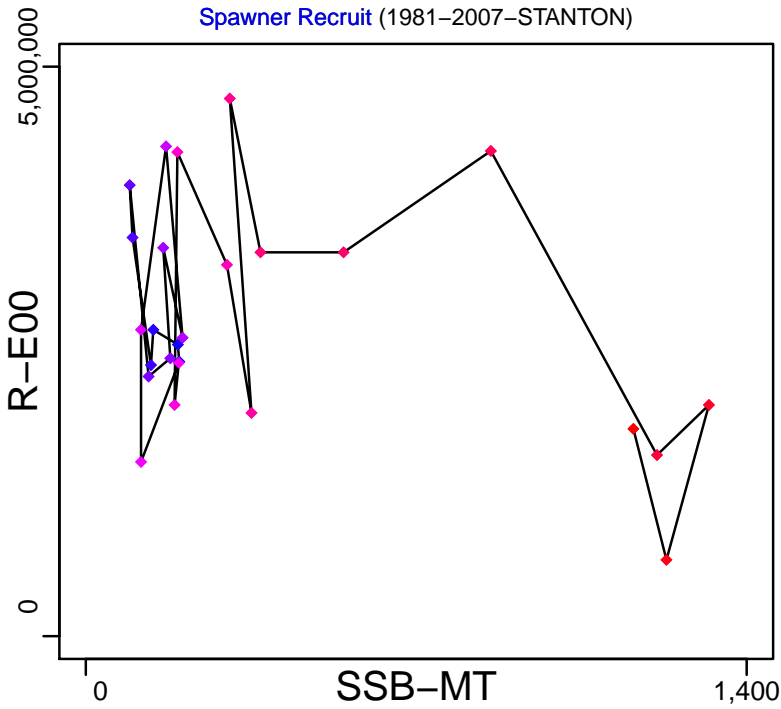
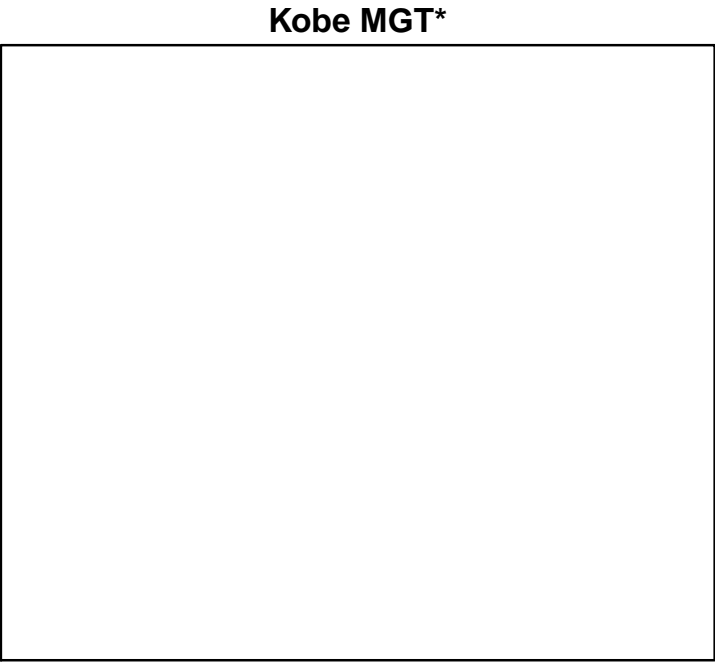


American lobster Georges Bank [LOBSTERGB]

Metadata	
Scientific Name	Homarus americanus
Current Assess ID	ASMFC-LOBSTERGB-1981-2007-STANTON
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2007	1160	Females	-
TN	-	-	-	-	-
R	R-E00	2007	1,820,000	-	-
F	F-1/yr	2007	0.35	-	-
ER	ER-ratio	2007	0.777	-	-
TC	-	-	-		
TL	TL-MT	2007	2060		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



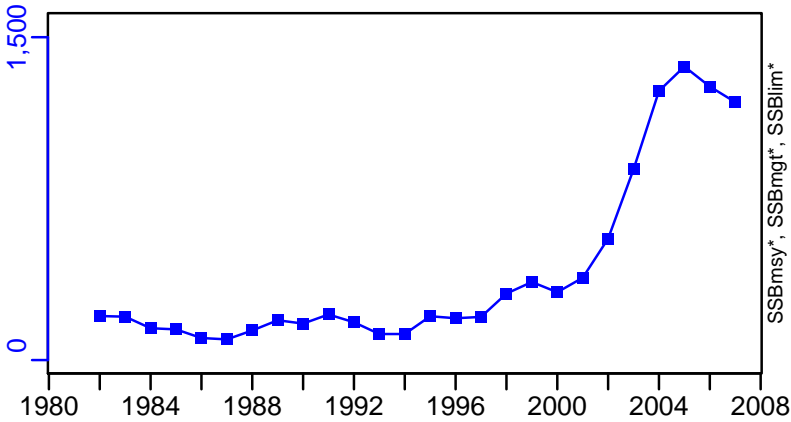
◆ Start Year ◆ End Year * No Data

American lobster Georges Bank [LOBSTERGB]

TB*



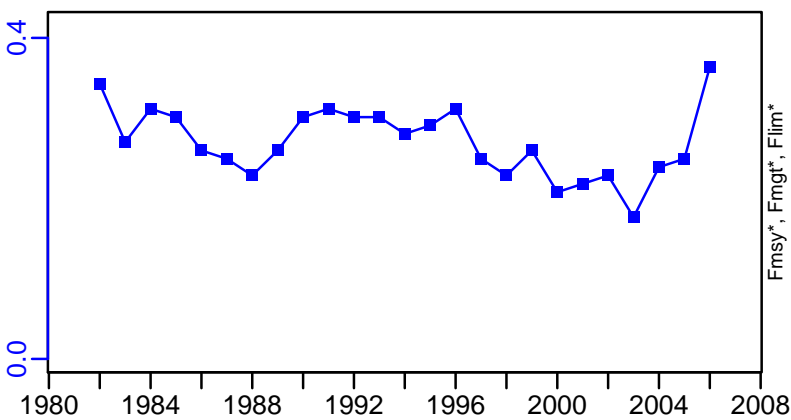
SSB-MT (1981-2007-STANTON)



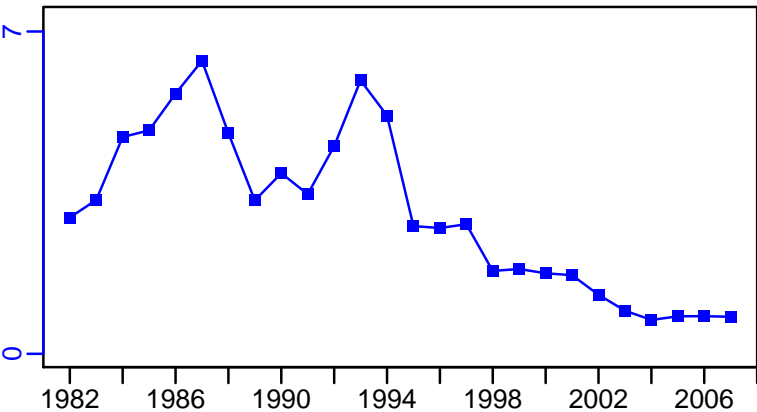
TN *



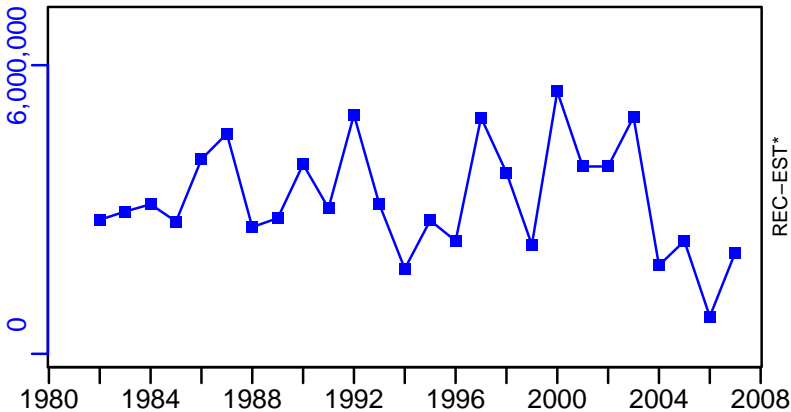
F-1/yr (1981-2007-STANTON)



ER-ratio (1981-2007-STANTON)

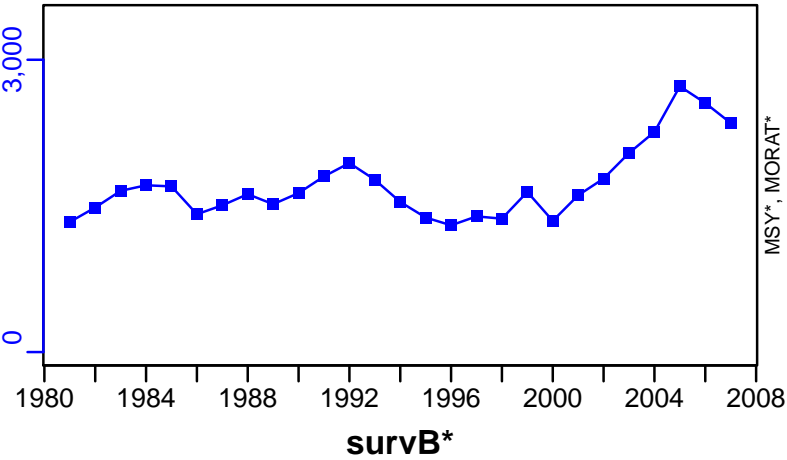


R-E00 (1981-2007-STANTON)



American lobster Georges Bank [LOBSTERGB]

TL-MT, TC*, RecC* (1981-2007-STANTON)



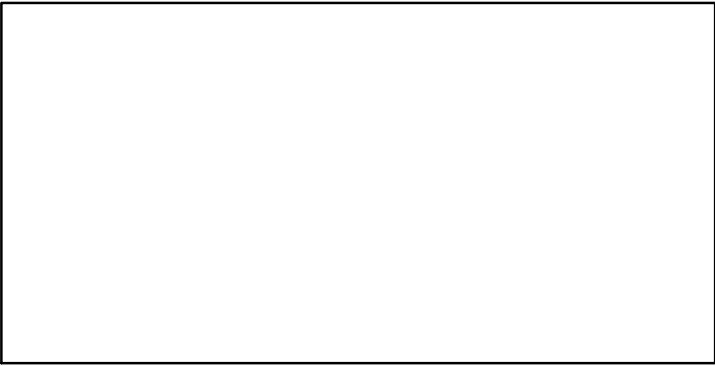
TAC*, Cpair*, Cadv*



CPUE*



EFFORT*



CdivMSY*



American lobster Gulf of Maine [LOBSTERGOM]

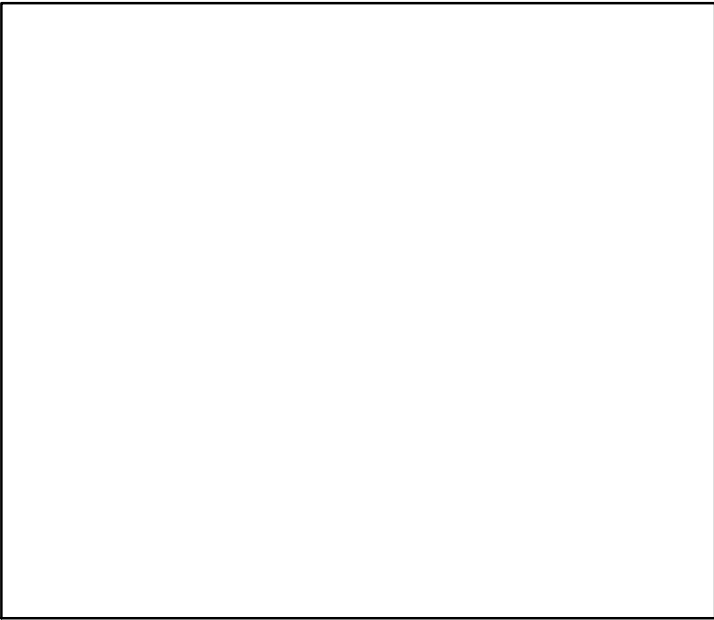
Metadata	
Scientific Name	Homarus americanus
Current Assess ID	ASMFC-LOBSTERGOM-1981-2007-STANTON
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2007	15,000
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2007	8710	Females	-
TN	-	-	-	-	-
R	R-E00	2007	22,600,000	-	-
F	F-1/yr	2007	1.25	-	-
ER	ER-ratio	2007	1.63	-	-
TC	-	-	-		
TL	TL-MT	2007	32,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2007	0.581		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

American lobster Gulf of Maine [LOBSTERGOM]

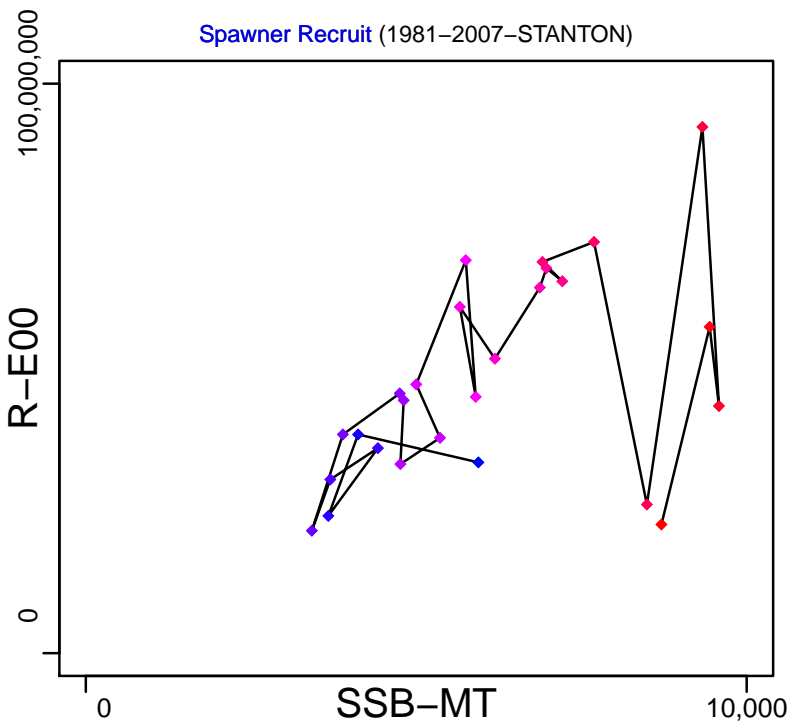
Kobe MSY*



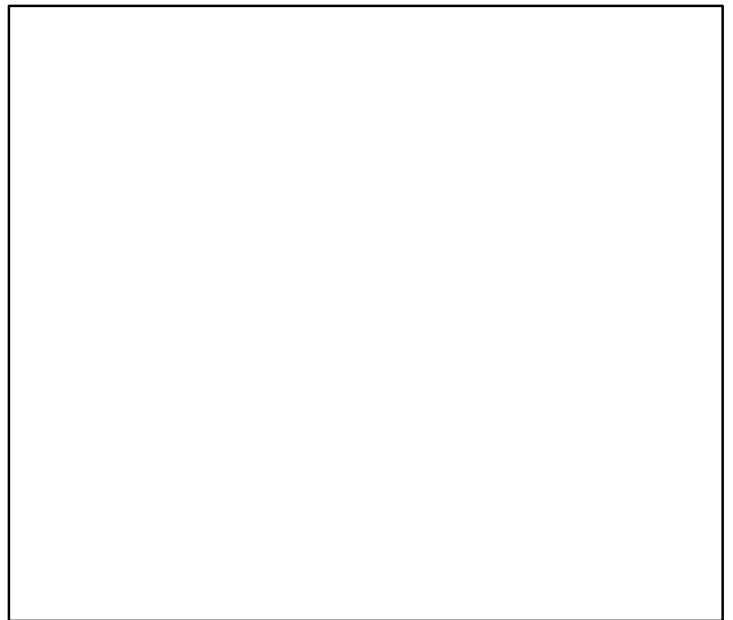
Kobe MGT*



Spawner Recruit (1981–2007–STANTON)



Production*



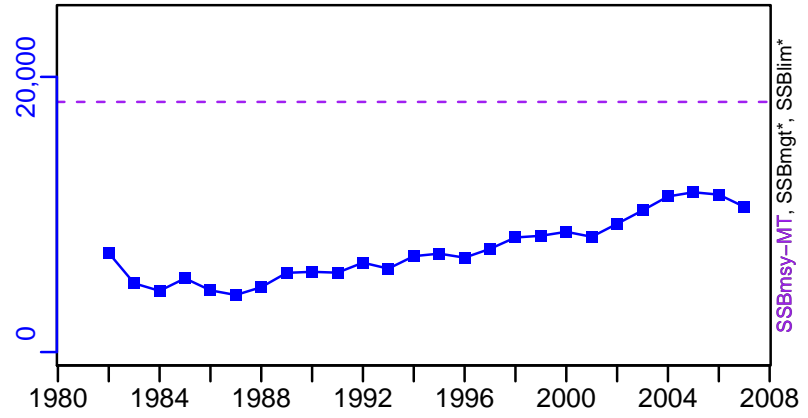
◆ Start Year ◆ End Year * No Data

American lobster Gulf of Maine [LOBSTERGOM]

TB*



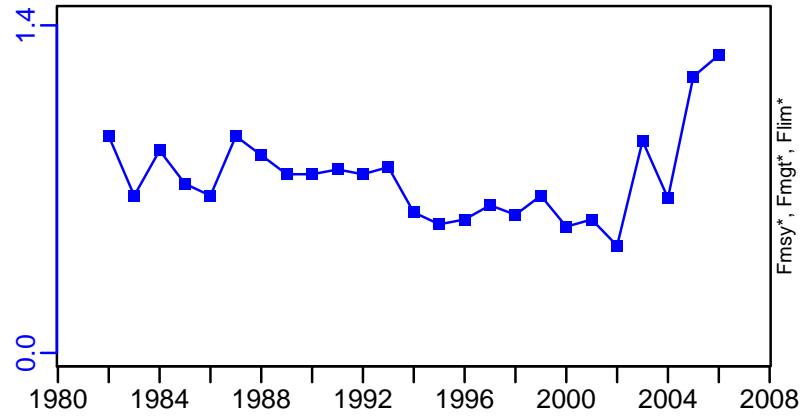
SSB-MT (1981-2007-STANTON)



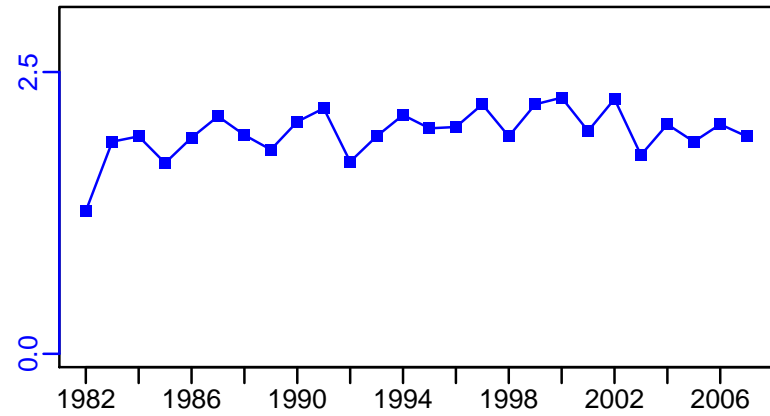
TN *



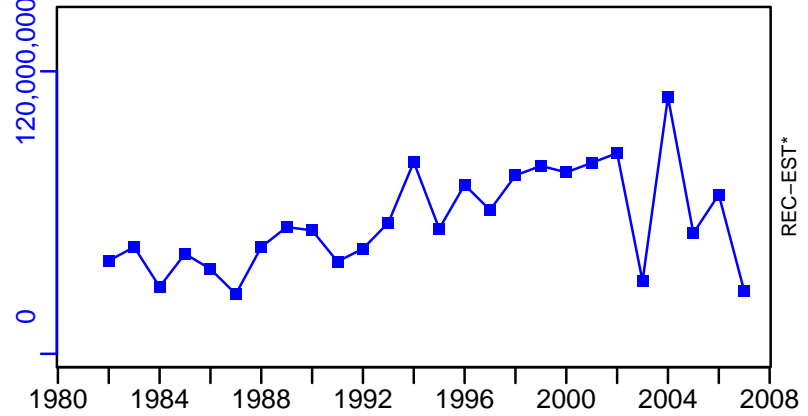
F-1/yr (1981-2007-STANTON)



ER-ratio (1981-2007-STANTON)



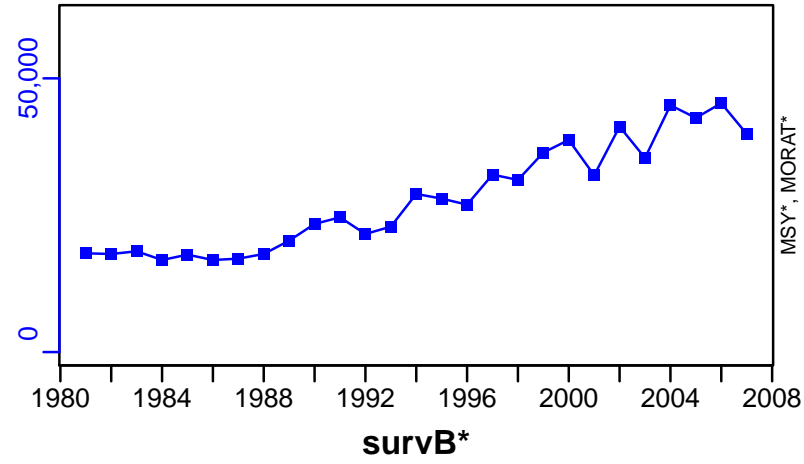
R-E00 (1981-2007-STANTON)



American lobster Gulf of Maine [LOBSTERGOM]

TL-MT, TC*, RecC* (1981-2007-STANTON)

TAC*, Cpair*, Cadv*



American lobster Southern New England [LOBSTERSNE]

Metadata	
Scientific Name	Homarus americanus
Current Assess ID	ASMFC-LOBSTERSNE-1981-2007-STANTON
Area	Southern New England
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2007

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2007	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2007	3740	Females	-
TN	-	-	-	-	-
R	R-E00	2007	4,440,000	-	-
F	F-1/yr	2007	1.04	-	-
ER	ER-ratio	2007	0.283	-	-
TC	-	-	-		
TL	TL-MT	2007	2440		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

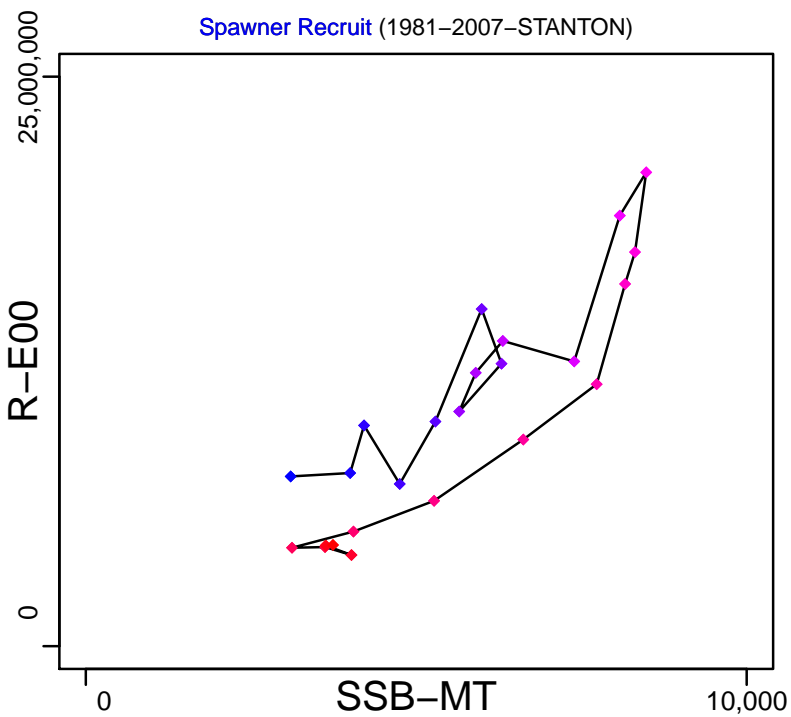
Kobe MSY*



Kobe MGT*



Spawner Recruit (1981–2007–STANTON)



Production*



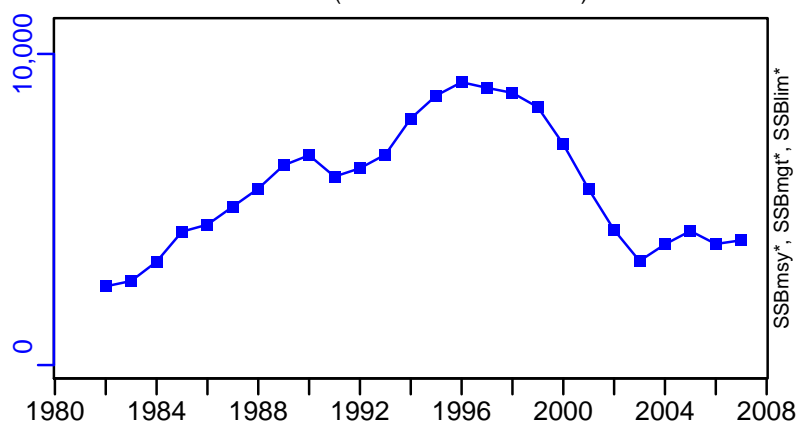
◆ Start Year ◆ End Year * No Data

American lobster Southern New England [LOBSTERSNE]

TB*



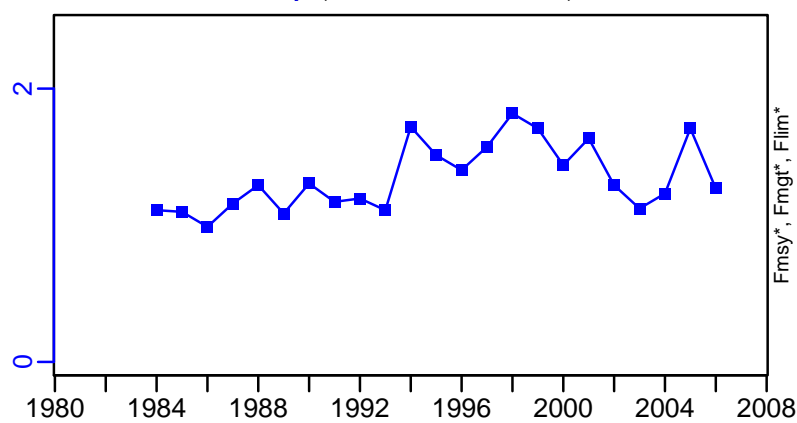
SSB-MT (1981-2007-STANTON)



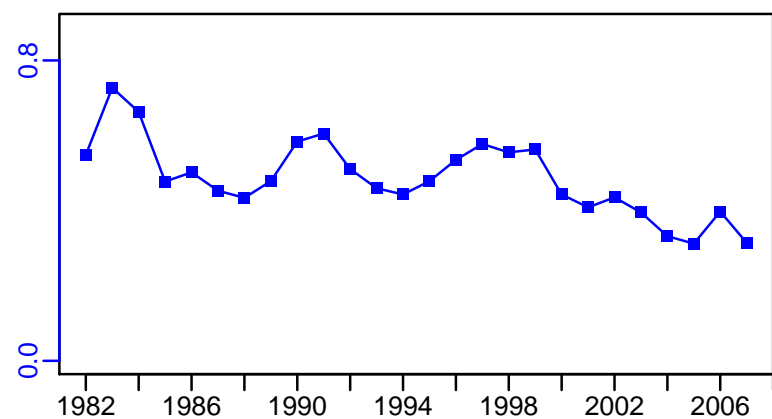
TN *



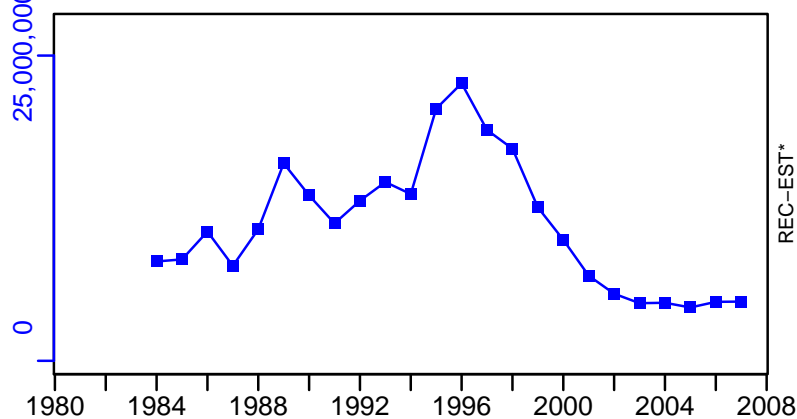
F-1/yr (1981-2007-STANTON)



ER-ratio (1981-2007-STANTON)



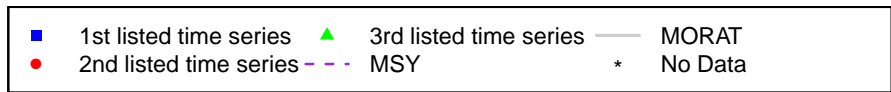
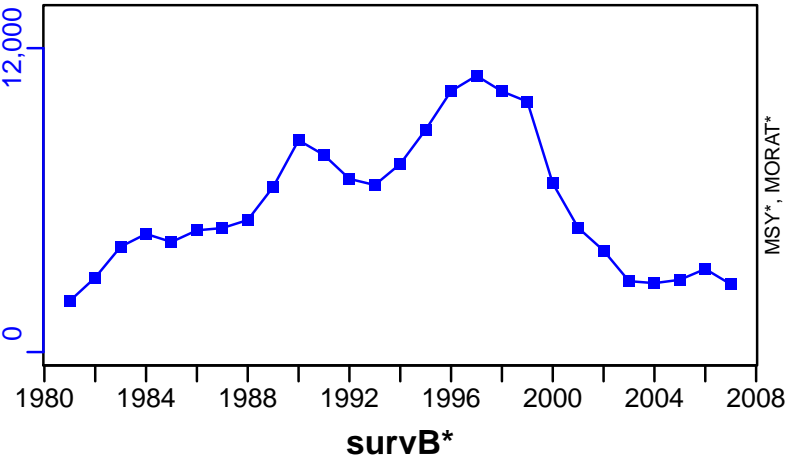
R-E00 (1981-2007-STANTON)



American lobster Southern New England [LOBSTERSNE]

TL-MT, TC*, RecC* (1981-2007-STANTON)

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*

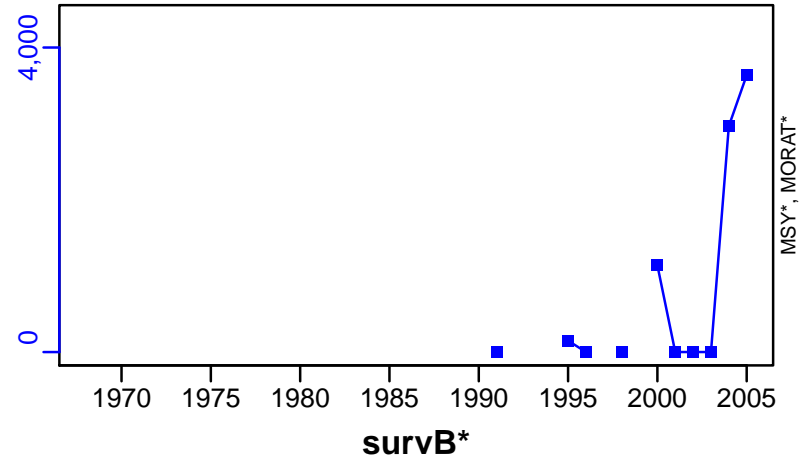


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

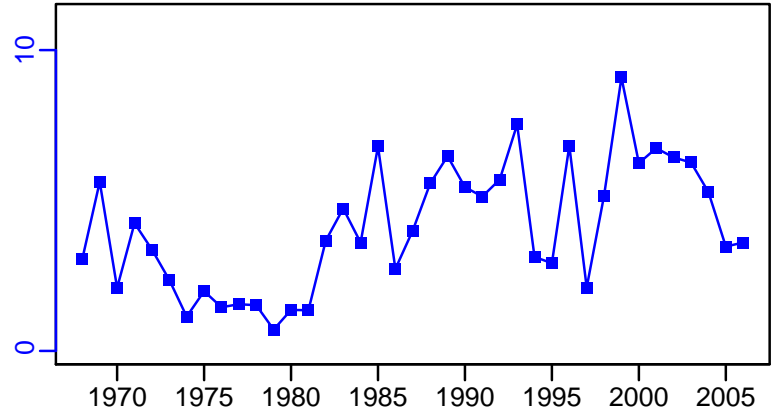
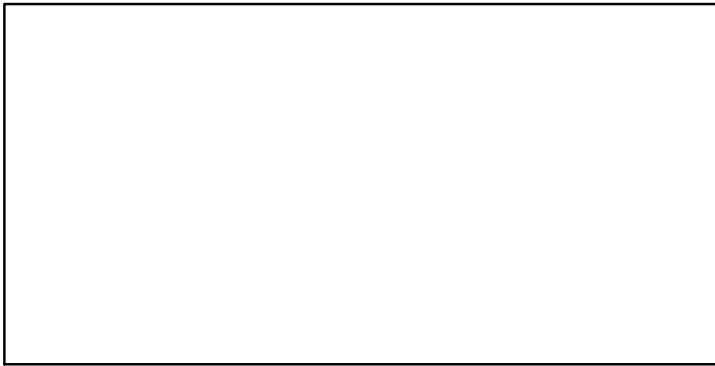
Little skate Gulf of Maine / Cape Hatteras [LSKAT5YCHATT]

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

TAC*, Cpair*, Cadv*



CPUE-kgpertow (1968-2006-SOSEBEE)



EFFORT*



CdivMSY*



Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

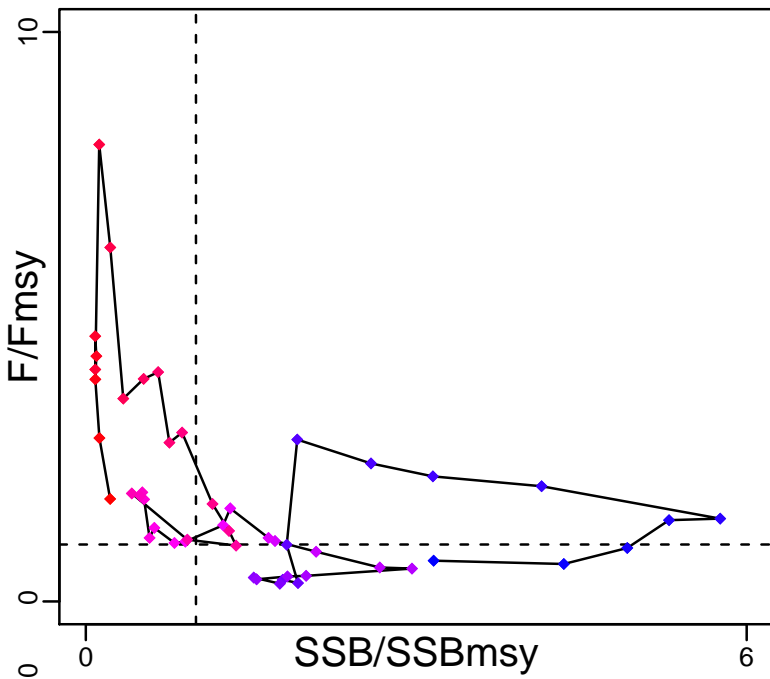
Metadata	
Scientific Name	Scomber scombrus
Current Assess ID	NEFSC-MACK5YCHATT-1960-2016-SISIMP2021
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	196,894
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERMgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	98,447
Flim	-	-	-
ERlim	-	-	-

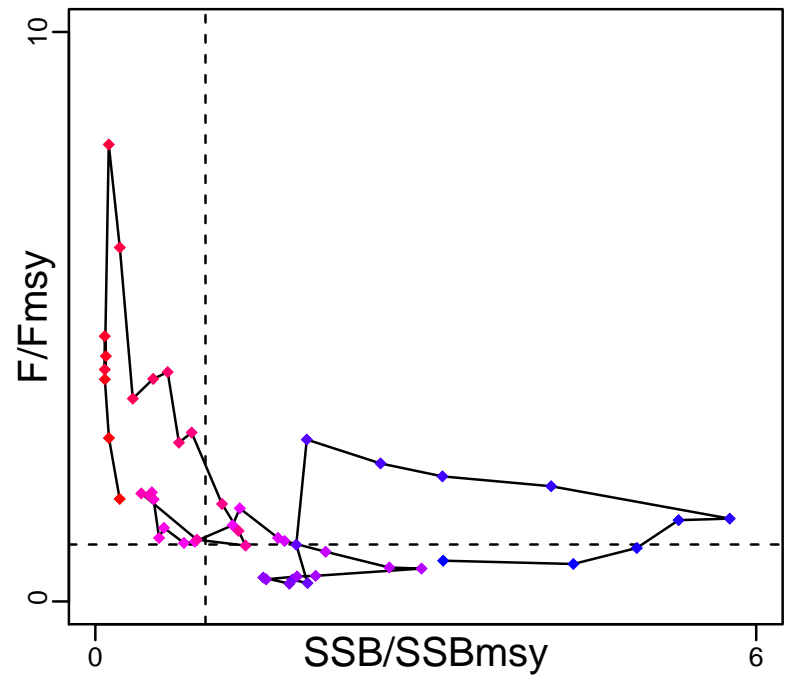
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	43,519	-	-
TN	-	-	-	-	-
R	R-E00	2016	455,430,000	-	1
F	F-1/yr	2016	0.468	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	15,316		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.221		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.8		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERMgt	-	-	-		

Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

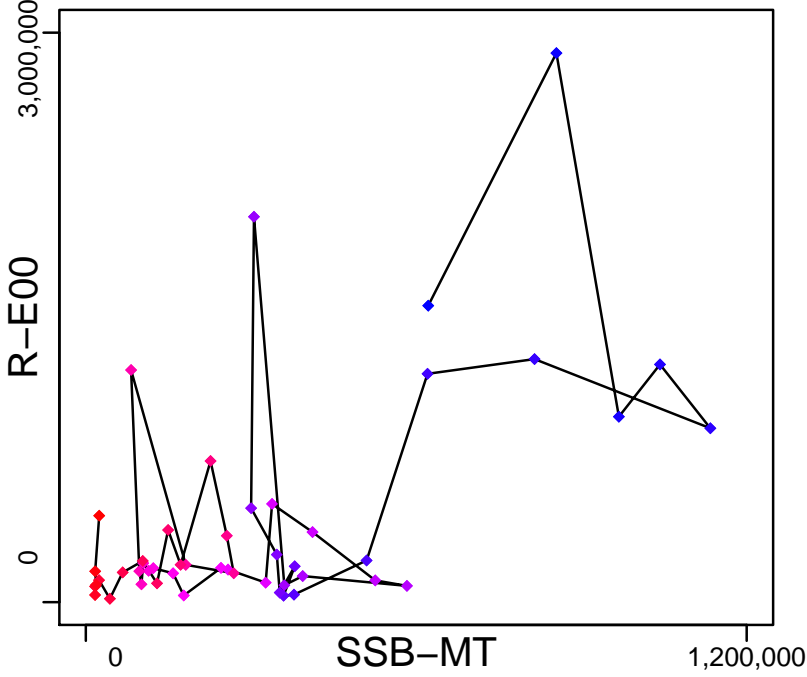
Kobe MSYpref (1960–2016–SISIMP2021)



Kobe MGTpref (1960–2016–SISIMP2021)



Spawner Recruit (1960–2016–SISIMP2021)



Production*



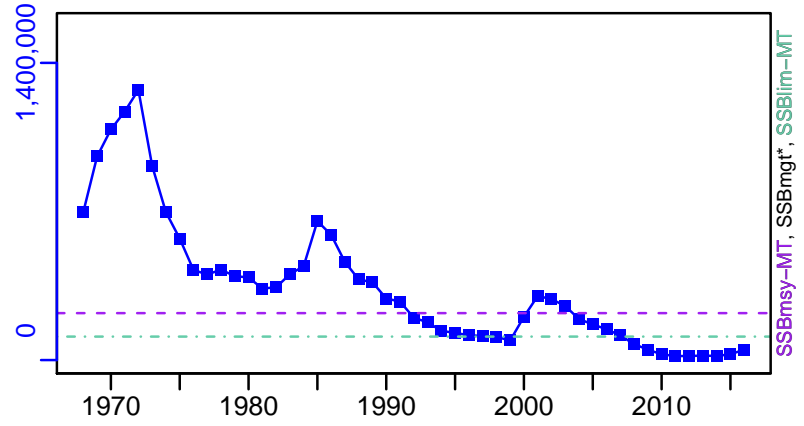
◆ Start Year ◆ End Year * No Data

Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

TB*



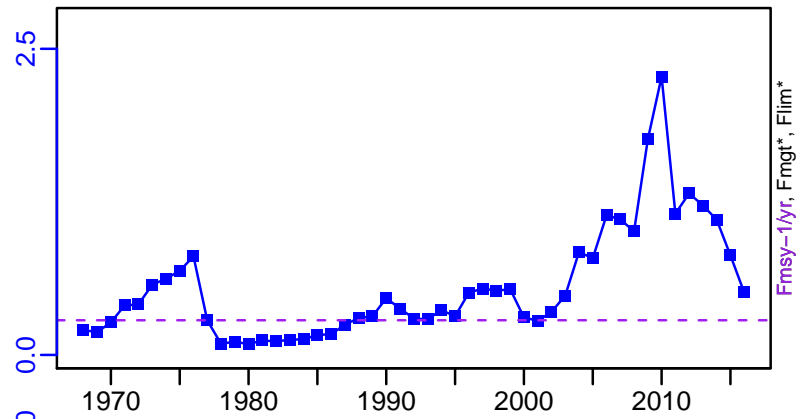
SSB-MT (1960-2016-SISIMP2021)



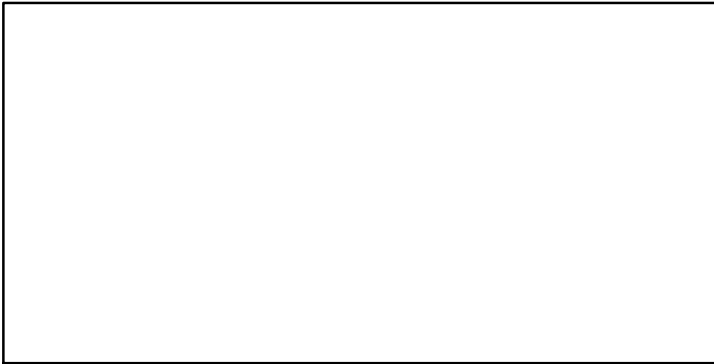
TN *



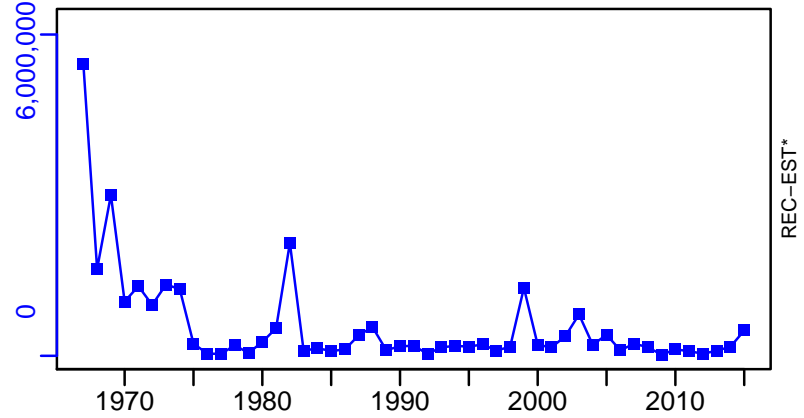
F-1/yr (1960-2016-SISIMP2021)



ER*

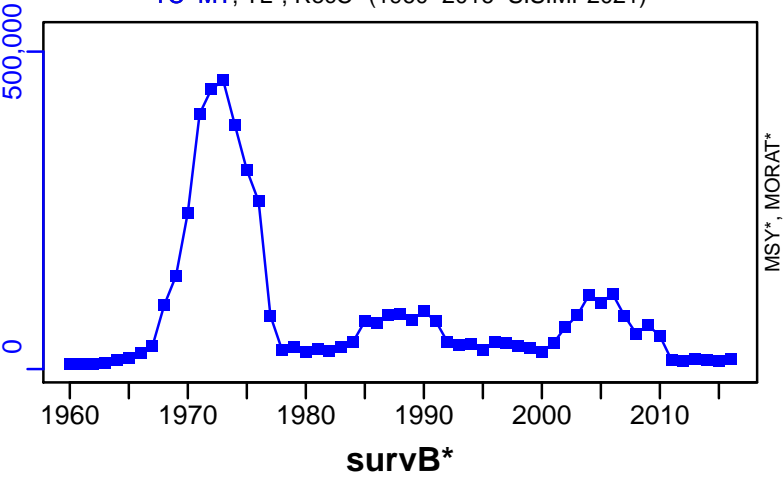


R-E00 (1960-2016-SISIMP2021)

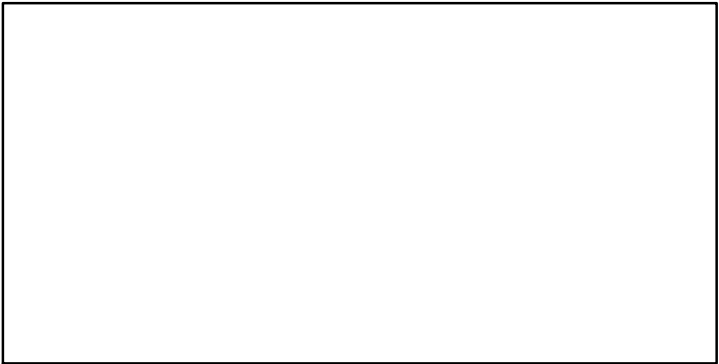


Atlantic mackerel Gulf of Maine / Cape Hatteras [MACK5YCHATT]

TC-MT, TL*, RecC* (1960-2016-SISIMP2021)



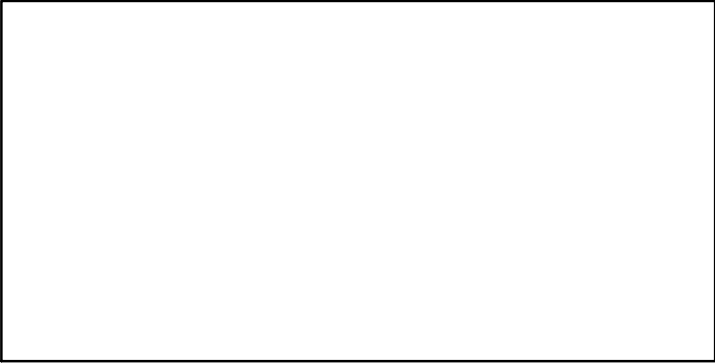
TAC*, Cpair*, Cadv*



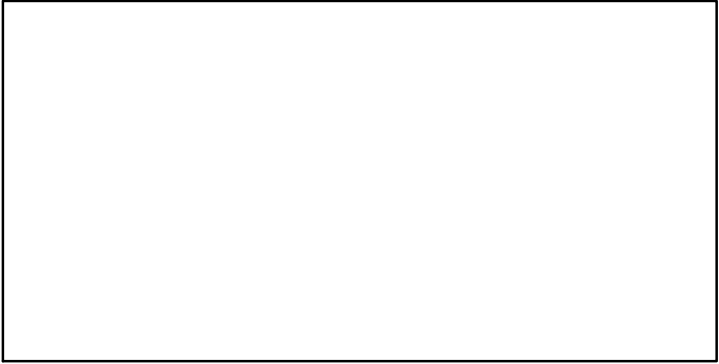
CPUE*



EFFORT*



CdivMSY*



Atlantic menhaden Atlantic [MENATLAN]

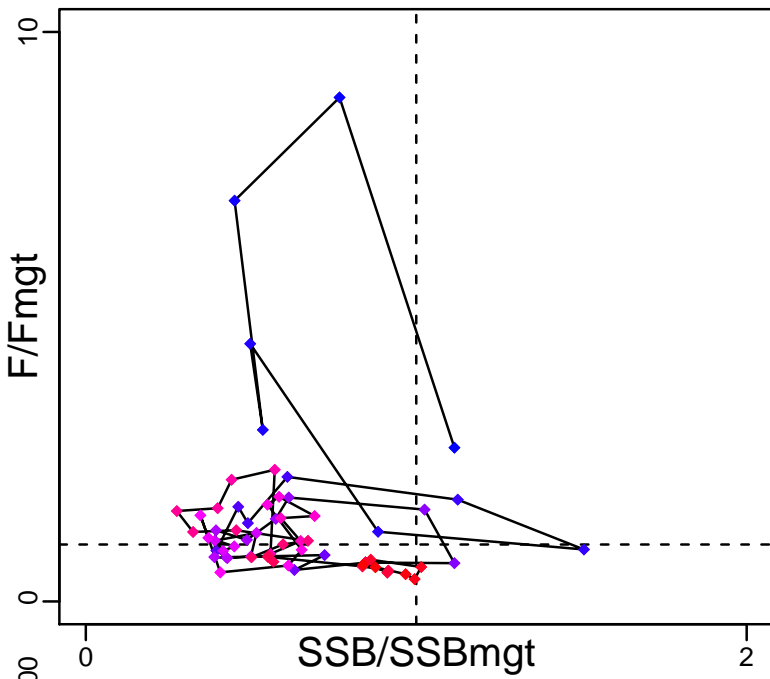
Metadata	
Scientific Name	Brevoortia tyrannus
Current Assess ID	ASMFC-MENATLAN-1940-2017-ASHBROOK
Area	Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2017, 2005

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-E00eggs	2017	9.95×10^{13}
Fmgt	Fmgt-1/yr	2017	0.8
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2005	0.5
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

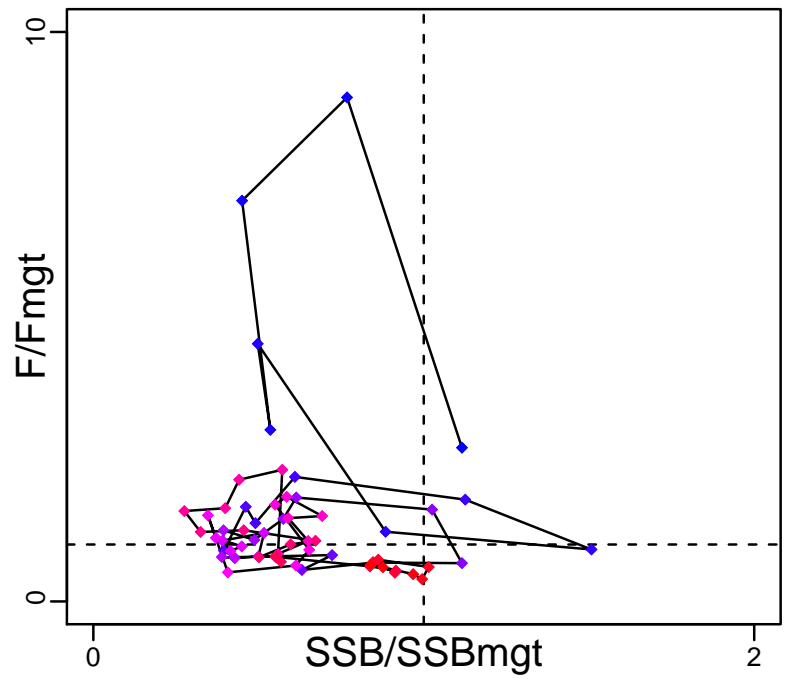
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	1,210,000	-	0-6+
SSB	SSB-E00eggs	2017	8.35×10^{13}	-	-
TN	TN-E00	2017	1.84×10^{10}	-	0-6+
R	R-E00	2017	8.65×10^9	-	0
F	F-1/yr	2017	0.515	-	2 to 4
ER	ER-calc-ratio	2017	0.113	-	-
TC	-	-	-		
TL	TL-MT	2017	137,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-E00eggs/SSBmgt-E00eggs	2017	0.839		
F/Fmgt	F-1/yr/Fmgt-1/yr	2017	0.644		
ER/ERmgt	-	-	-		

Atlantic menhaden Atlantic [MENATLAN]

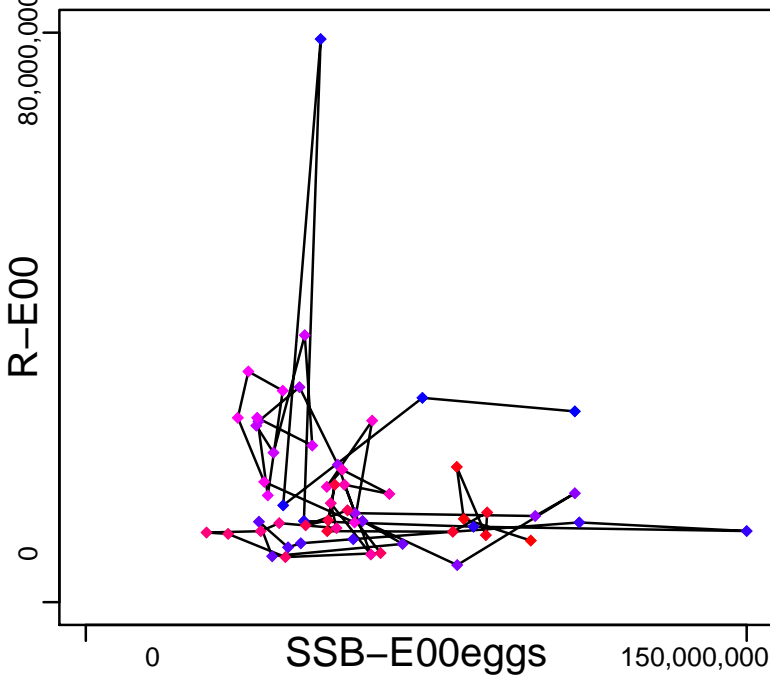
Kobe MSYpref (1940–2017–ASHBROOK)



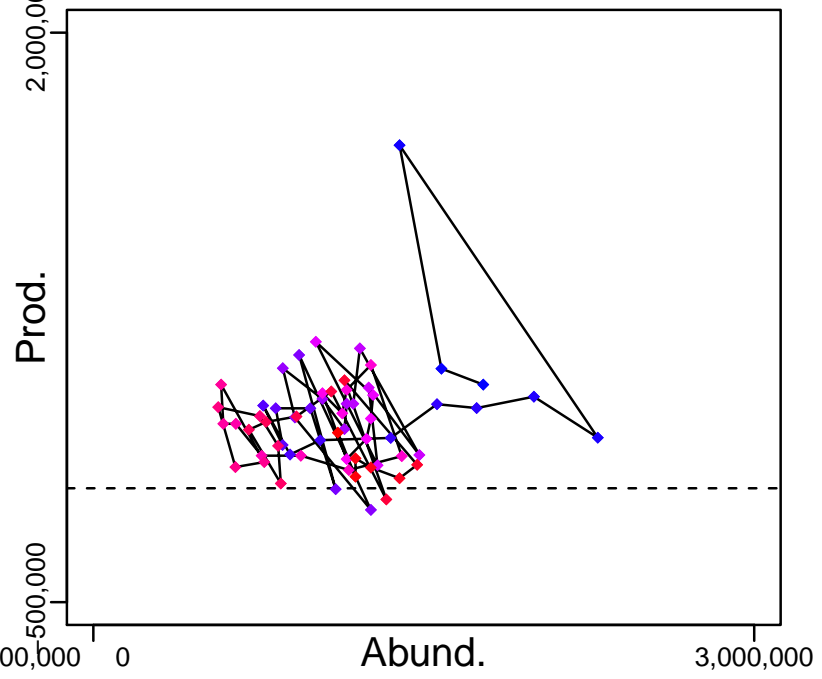
Kobe MGTpref (1940–2017–ASHBROOK)



Spawner Recruit (1940–2017–ASHBROOK)

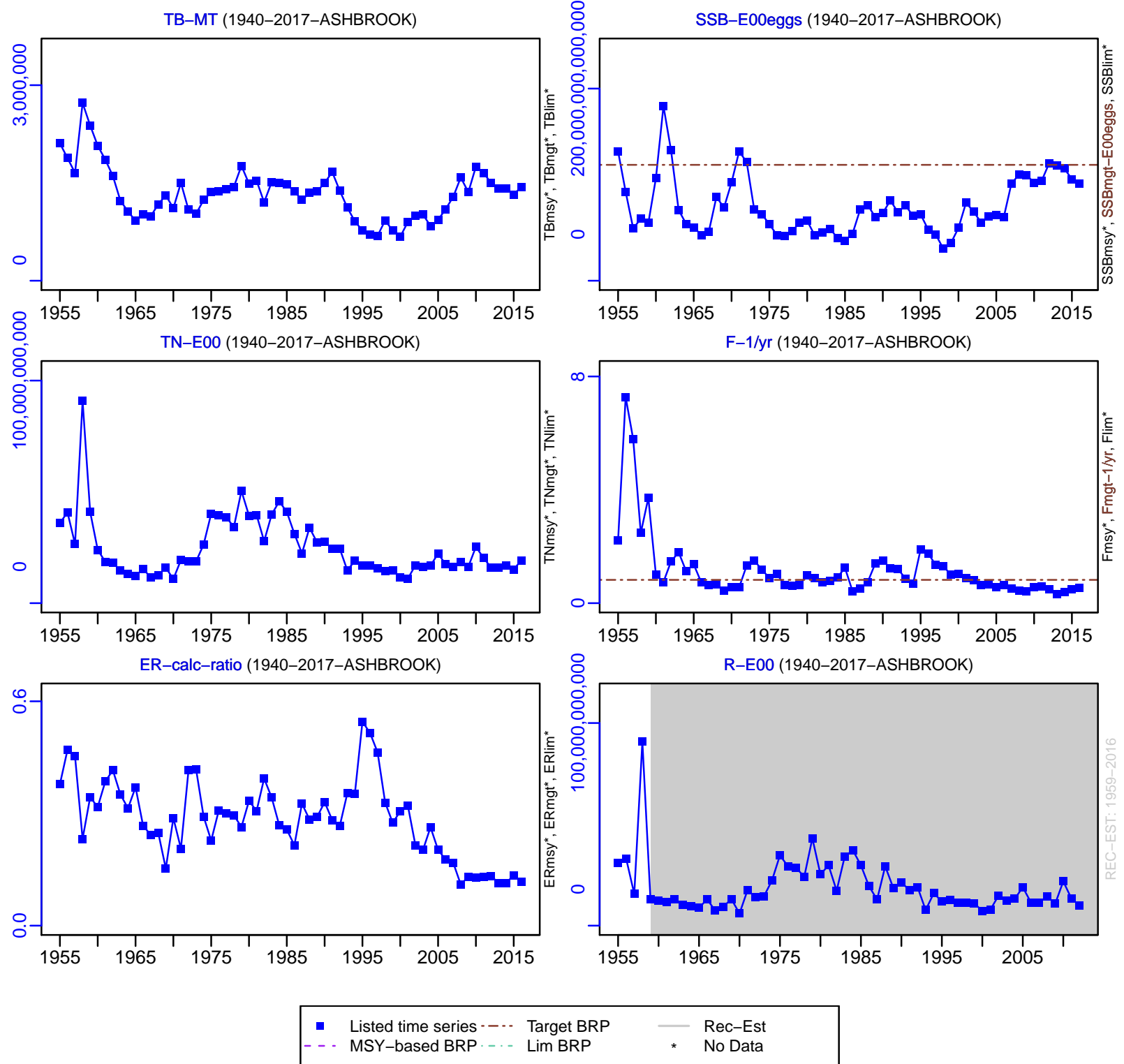


Production (1940–2017–ASHBROOK)



◆ Start Year ◆ End Year * No Data

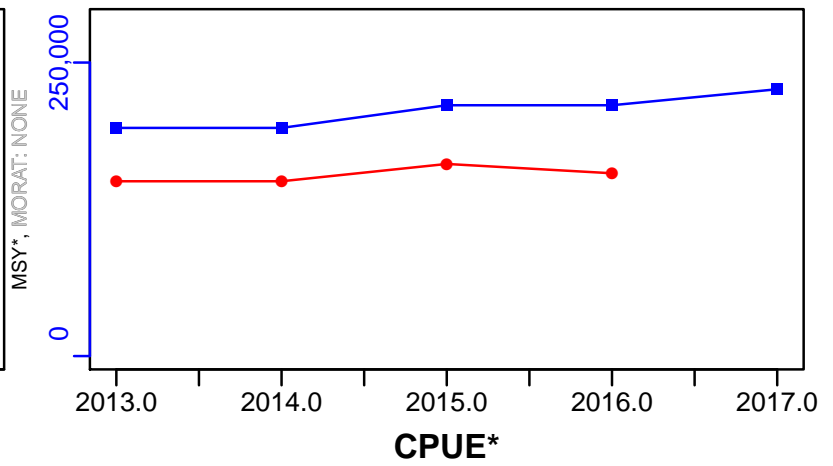
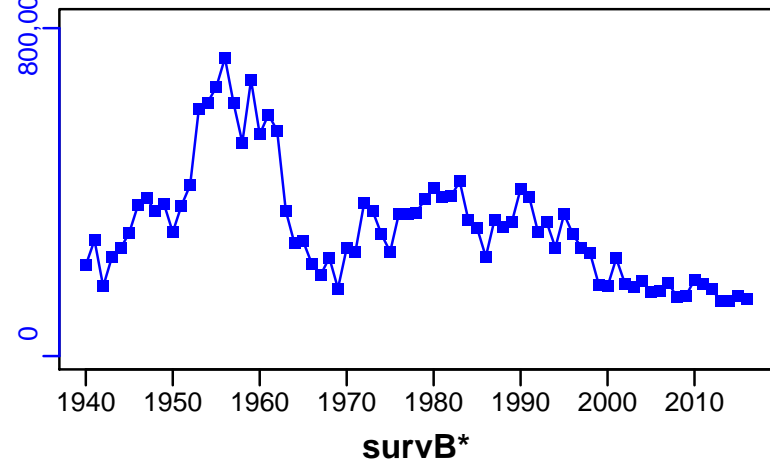
Atlantic menhaden Atlantic [MENATLAN]



Atlantic menhaden Atlantic [MENATLAN]

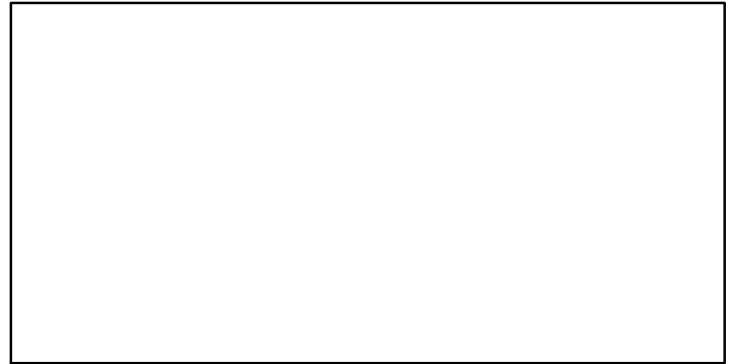
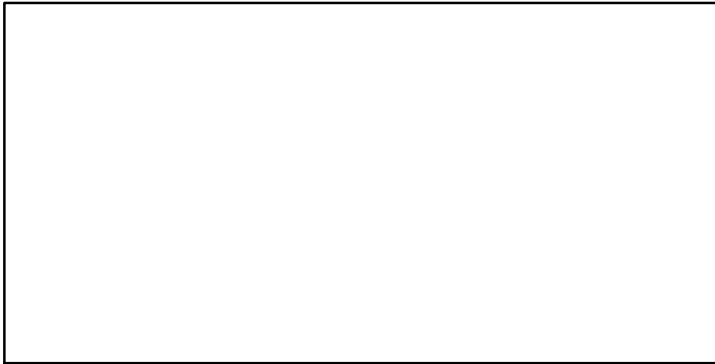
TL-MT, TC*, RecC* (1940-2017-ASHBROOK)

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



EFFORT*

CdivMSY*



Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

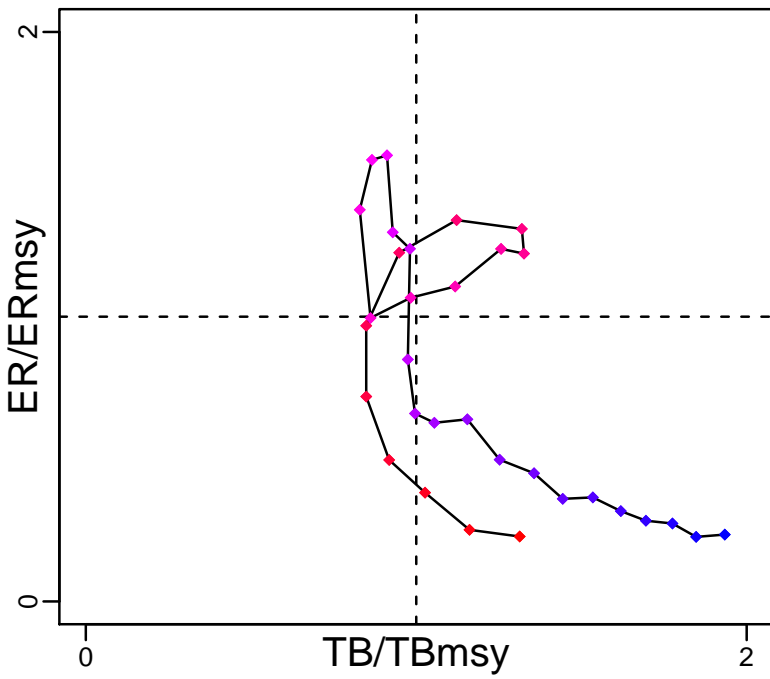
Metadata	
Scientific Name	Lophius americanus
Current Assess ID	NEFSC-MONKGOMNGB-1979-2010-SISIMP2016
Area	Gulf of Maine / Northern Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2009

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	-	-	-

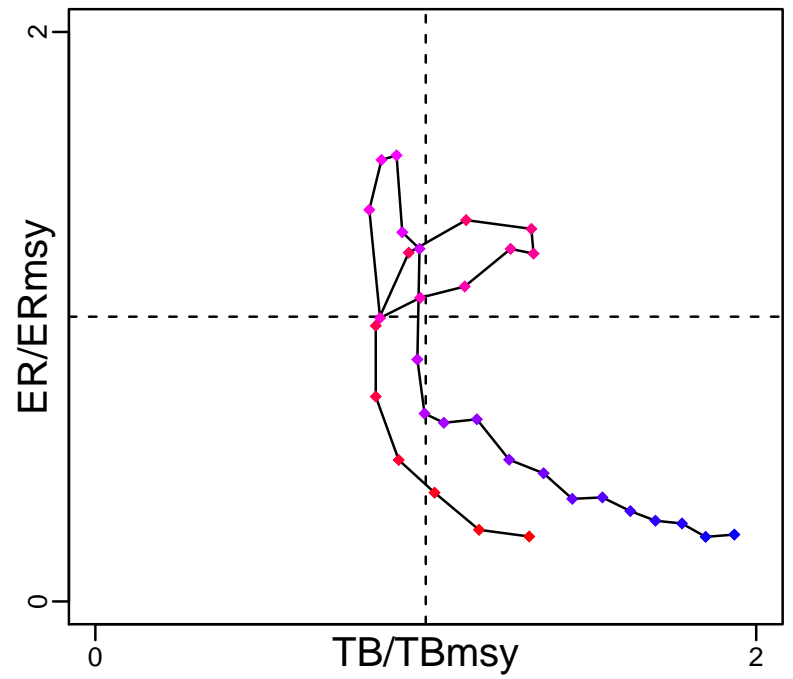
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	60,500	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2010	11,700,000	-	1
F	F-1/yr	2010	0.08	-	-
ER	ER-calc-ratio	2010	0.046	-	-
TC	TC-MT	2010	2810		
TL	TL-MT	2009	3260		
TB/TBmsy	TB-MT/TBmsy-MT	2010	1.313		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	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 MSY_{pref} (1979–2010–SISIMP2016)



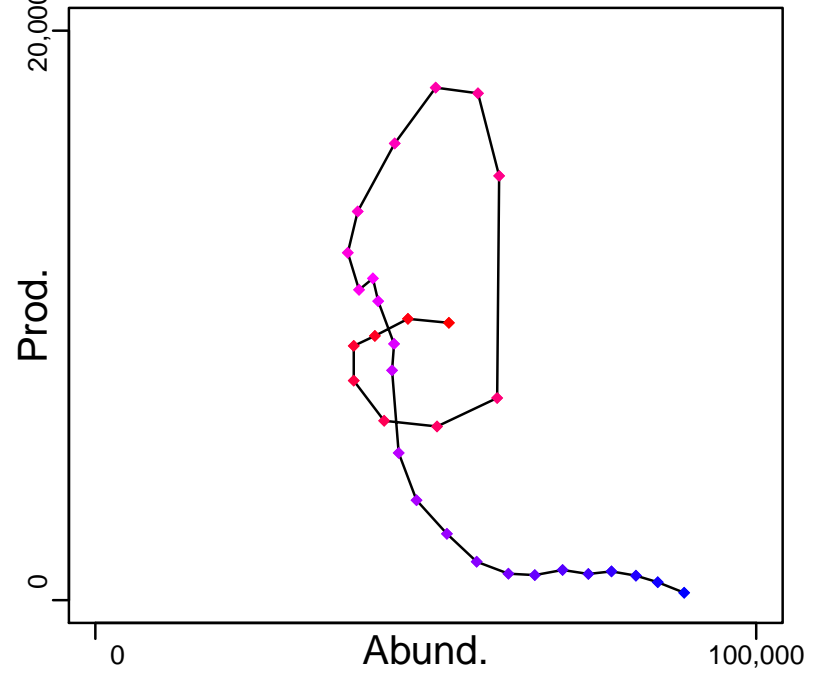
Kobe MGT_{pref} (1979–2010–SISIMP2016)



Spawner Recruit*



Production (1979–2010–SISIMP2016)

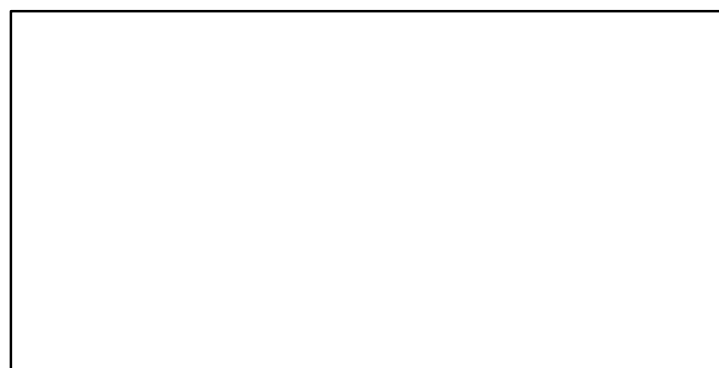
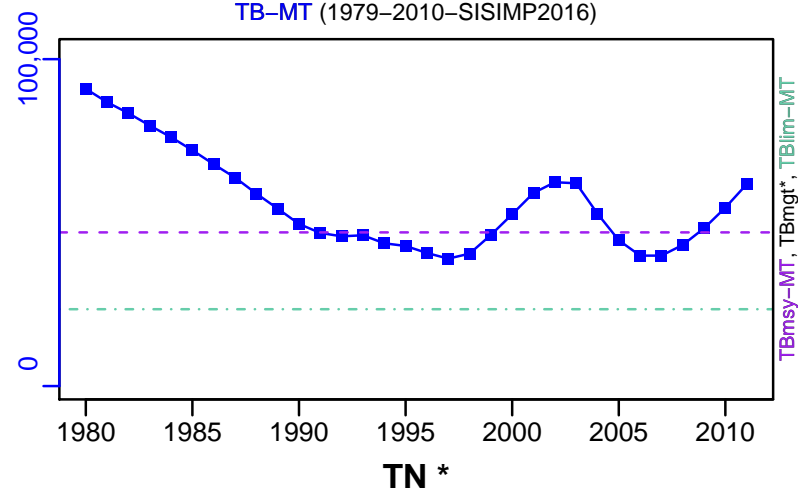


◆ Start Year ◆ End Year * No Data

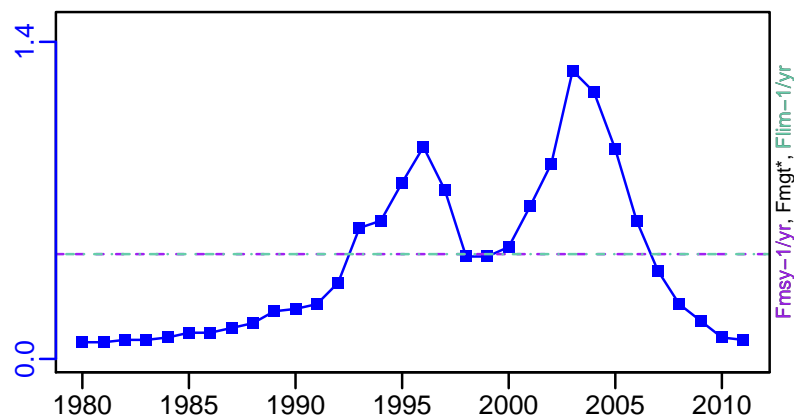
Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

TB-MT (1979–2010–SISIMP2016)

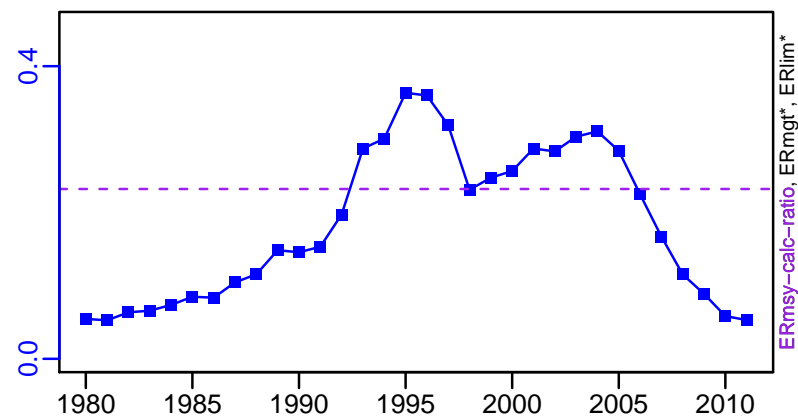
SSB*



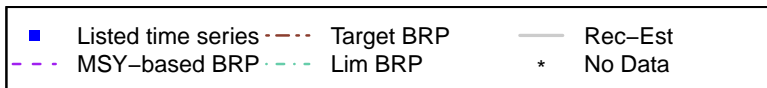
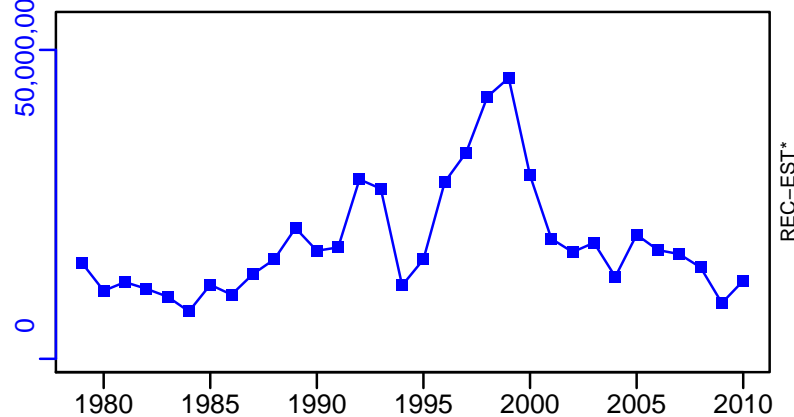
F-1/yr (1979–2010–SISIMP2016)



ER-calc-ratio (1979–2010–SISIMP2016)

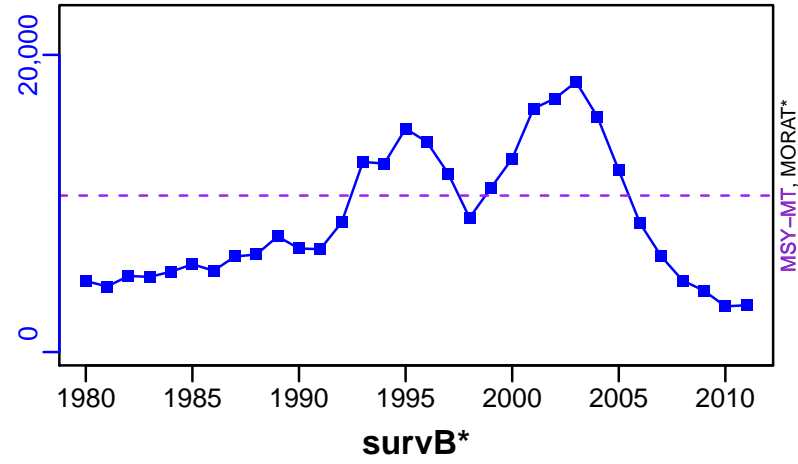


R-E00 (1979–2010–SISIMP2016)



Monkfish Gulf of Maine / Northern Georges Bank [MONKGOMNGB]

TC-MT, TL*, RecC* (1979-2010-SISIMP2016)



TAC*, Cpair*, Cadv*



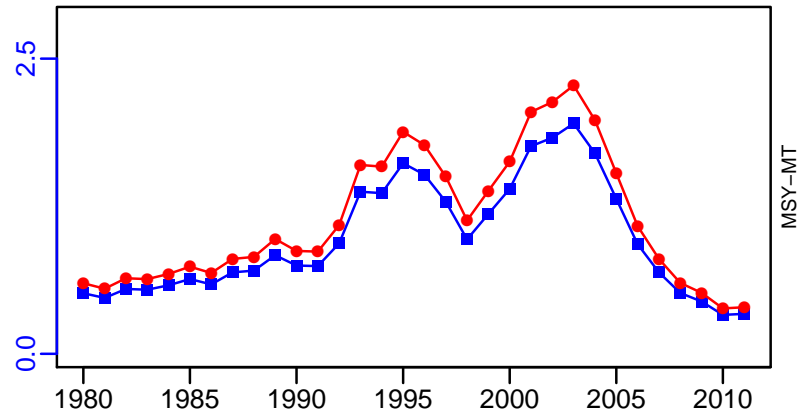
CPUE*



EFFORT*



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



Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

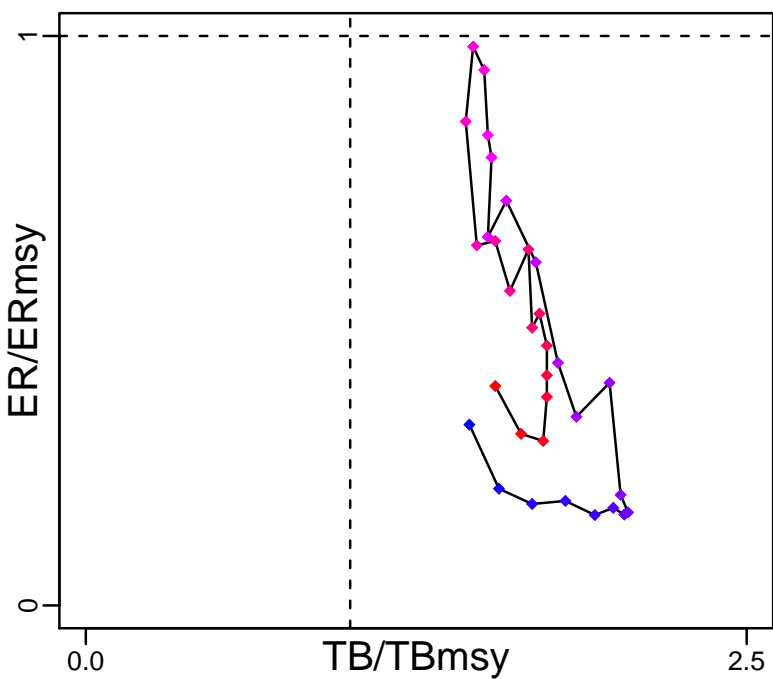
Metadata	
Scientific Name	Lophius americanus
Current Assess ID	NEFSC-MONKSGBMATL-1979-2010-SISIMP2016
Area	Southern Georges Bank / Mid-Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2009

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	-	-	-

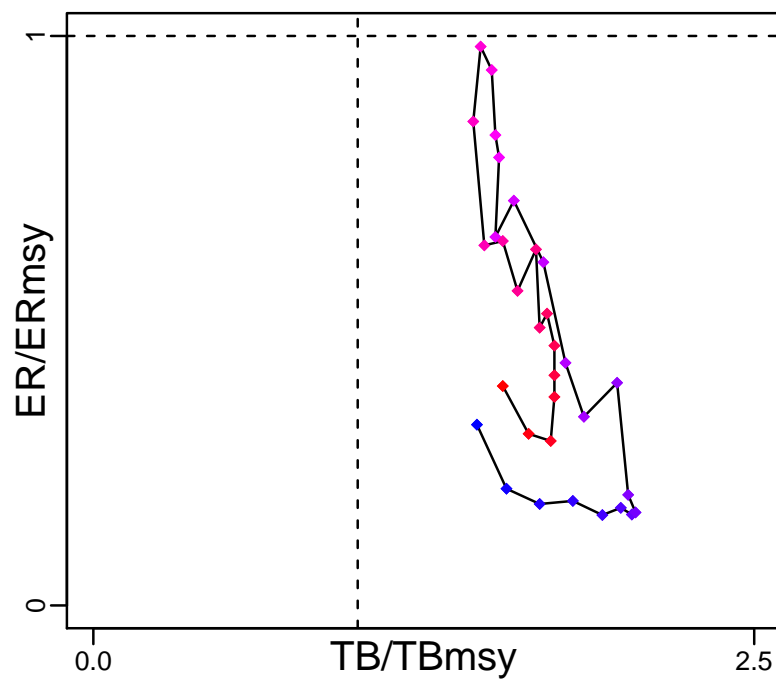
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2010	111,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2010	23,300,000	-	1
F	F-1/yr	2010	0.11	-	-
ER	ER-calc-ratio	2010	0.077	-	-
TC	TC-MT	2010	8550		
TL	TL-MT	2009	5300		
TB/TBmsy	TB-MT/TBmsy-MT	2010	1.549		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	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)



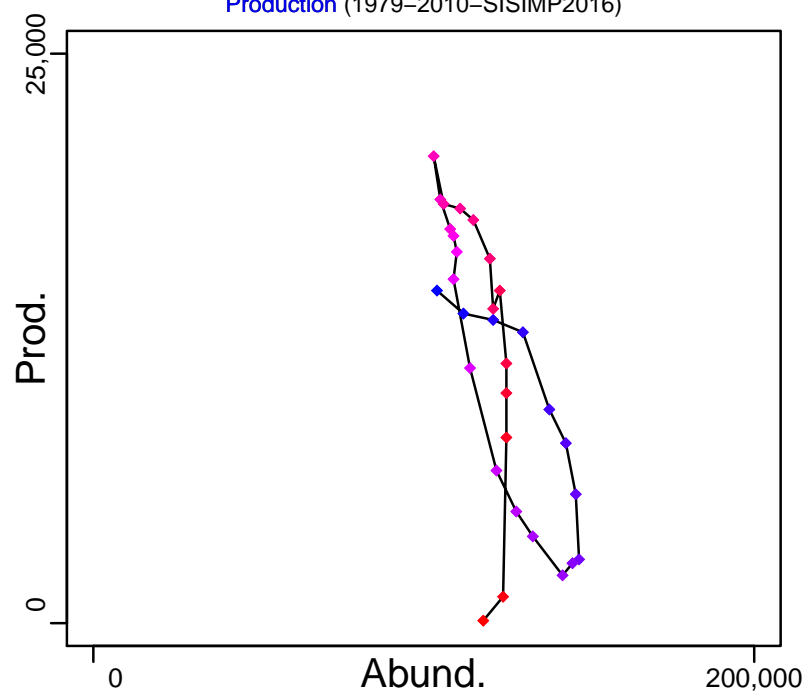
Kobe MGT_{pref} (1979–2010–SISIMP2016)



Spawner Recruit*



Production (1979–2010–SISIMP2016)

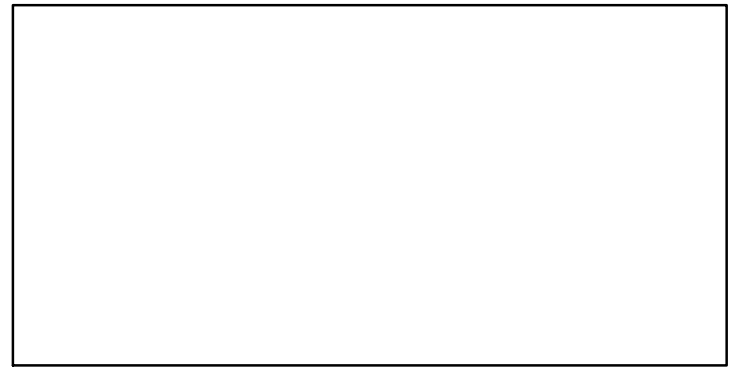
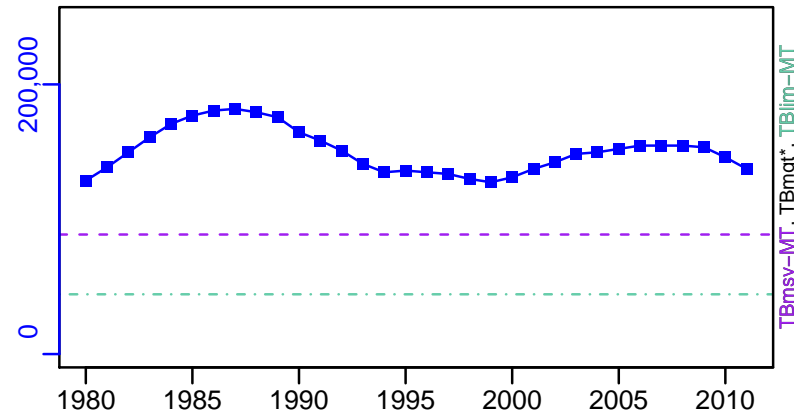


◆ Start Year ◆ End Year * No Data

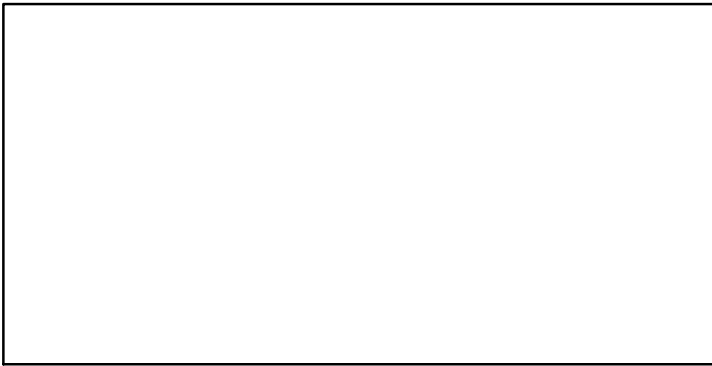
Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

TB-MT (1979–2010–SISIMP2016)

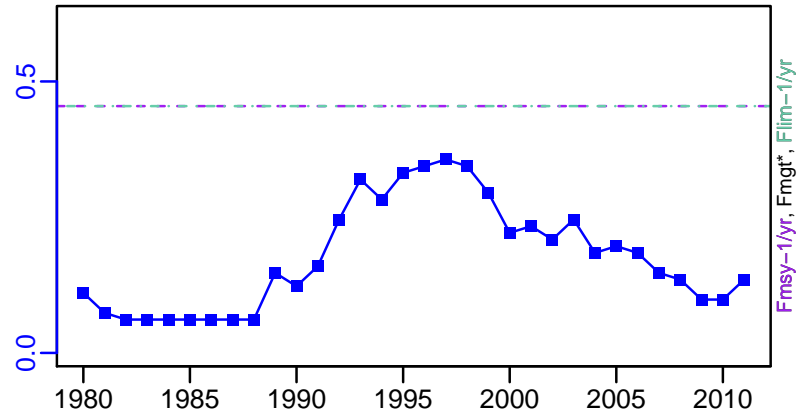
SSB*



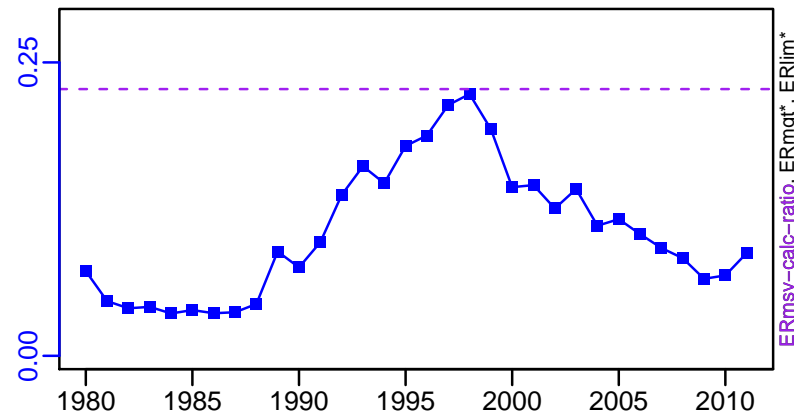
TN *



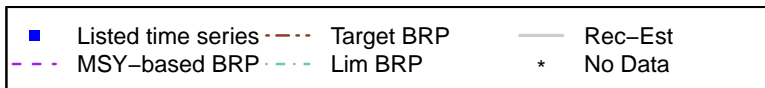
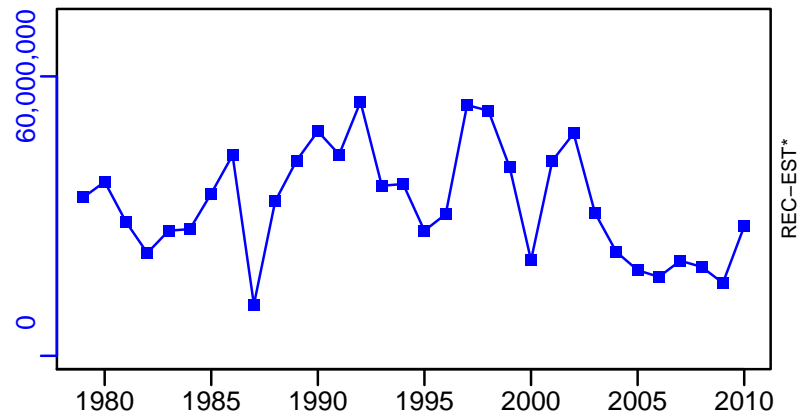
F-1/yr (1979–2010–SISIMP2016)



ER-calc-ratio (1979–2010–SISIMP2016)

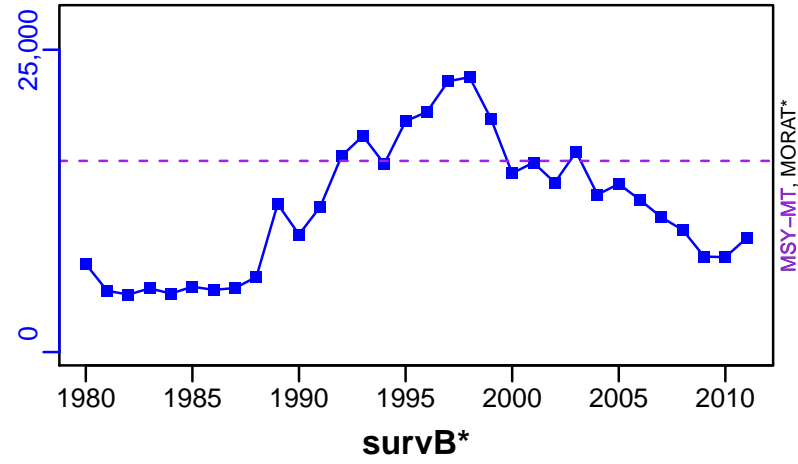


R-E00 (1979–2010–SISIMP2016)



Monkfish Southern Georges Bank / Mid-Atlantic [MONKSGBMATL]

TC-MT, TL*, RecC* (1979-2010-SISIMP2016)



TAC*, Cpair*, Cadv*



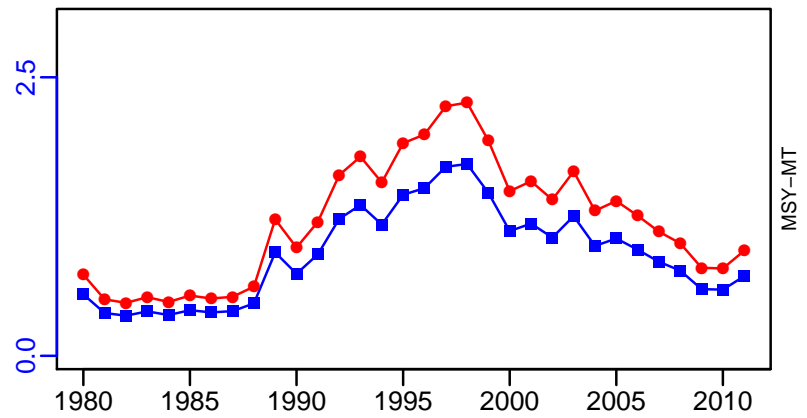
CPUE*



EFFORT*



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



Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

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

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-kgpertow	2008	4.94
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2008	0.76
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	3754
M	M-1/yr	2008	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2008	0.375	-	-
TC	TC-MT	2016	50		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

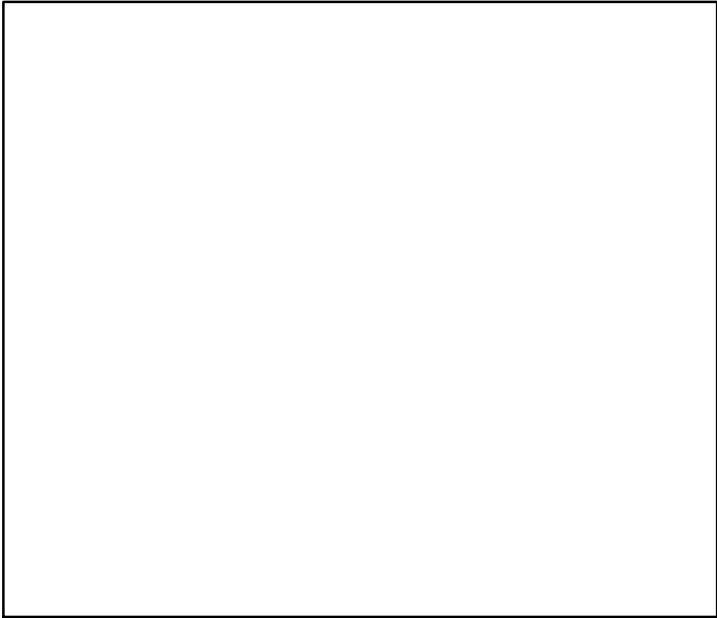
Kobe MSY*



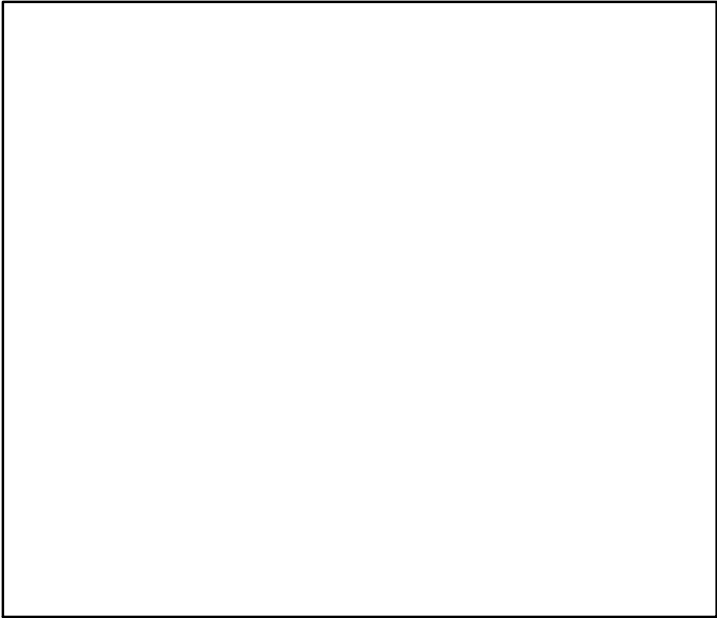
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

TB*



SSB*



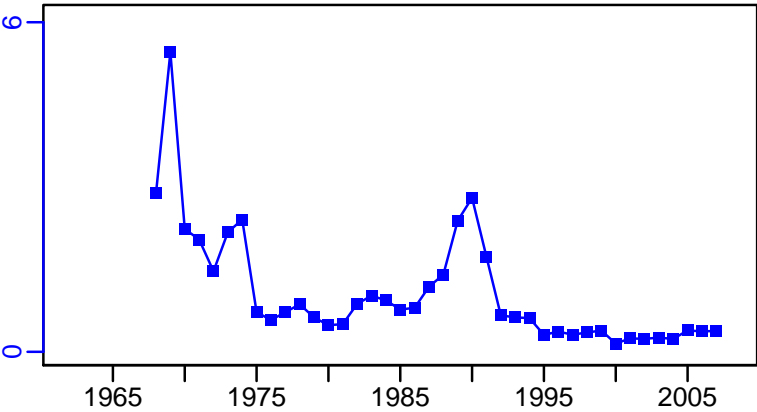
TN *



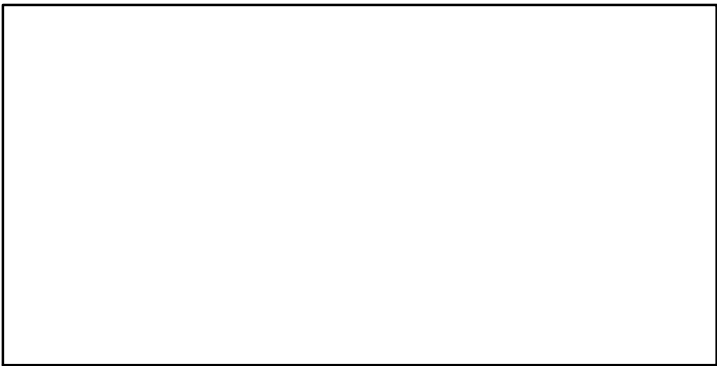
F*



ER-ratio (1962–2008–WIGLEY)



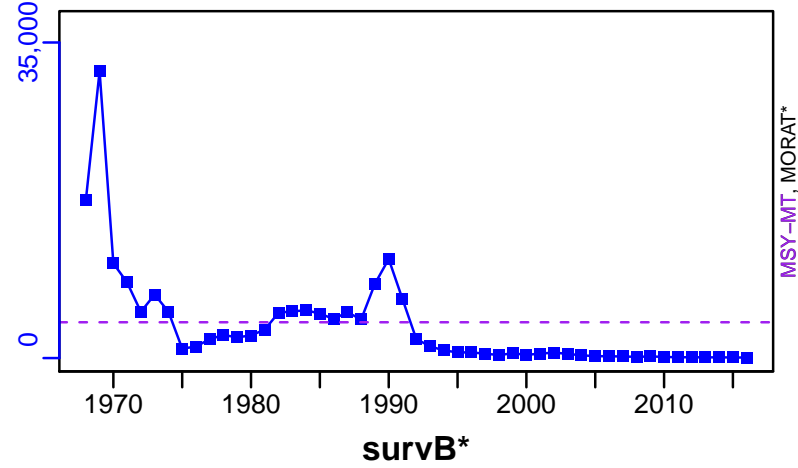
Recruits*



Ocean pout Northwestern Atlantic Coast [OPOUTNWATLC]

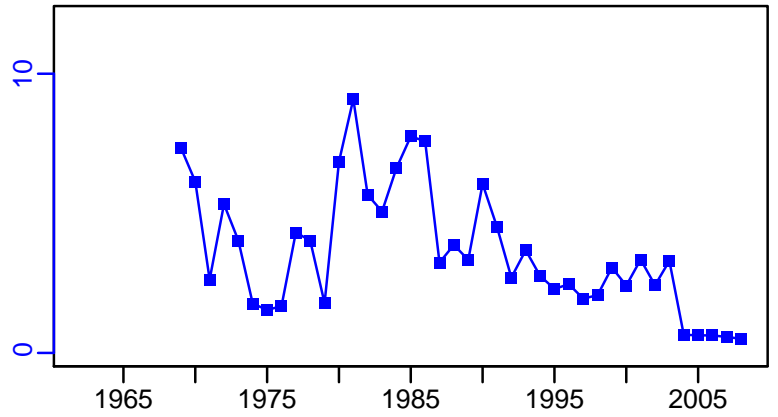
TC-MT, TL*, RecC* (1968–2016–SISIMP2021)

TAC*, Cpair*, Cadv*

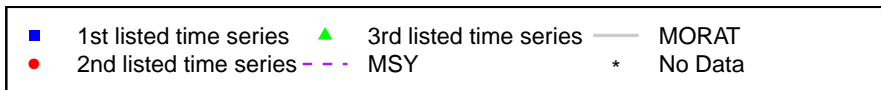
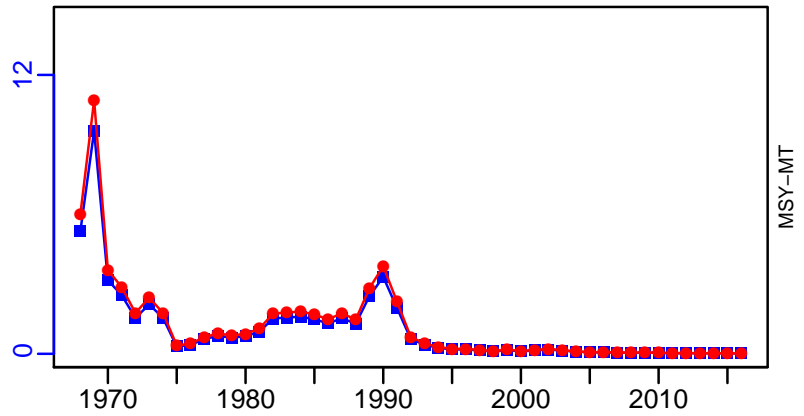


EFFORT*

CPUE-kgpertow (1962–2008–WIGLEY)



TC-MT/MSY-MT, CdivMEANC-ratio, (1968–2016–SISIMP2021)



Northern shrimp Gulf of Maine [PANDALGOM]

Metadata	
Scientific Name	Pandalus borealis
Current Assess ID	ASMFC-PANDALGOM-1960-2009-IDOINE
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Atlantic States Marine Fisheries Commission
Asmts in RAM	2009

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	2009	27,900	-	1.5+
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2009	0.18	Both	1.5 to 6
ER	ER-ratio	2009	0.17	-	-
TC	-	-	-		
TL	TL-MT	2009	4780		
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*



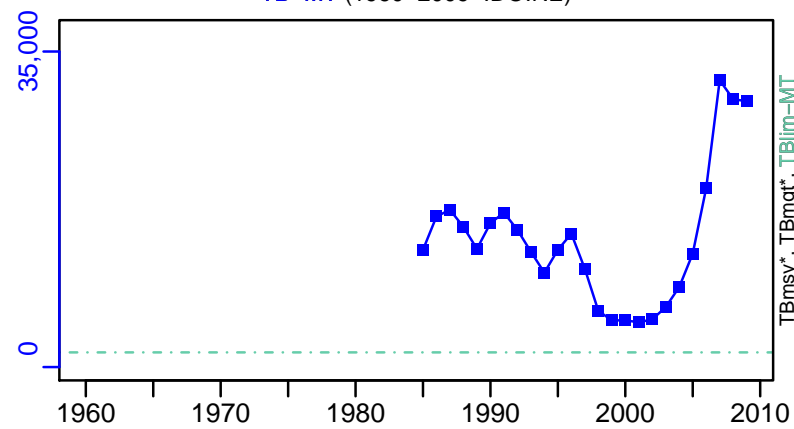
Production*



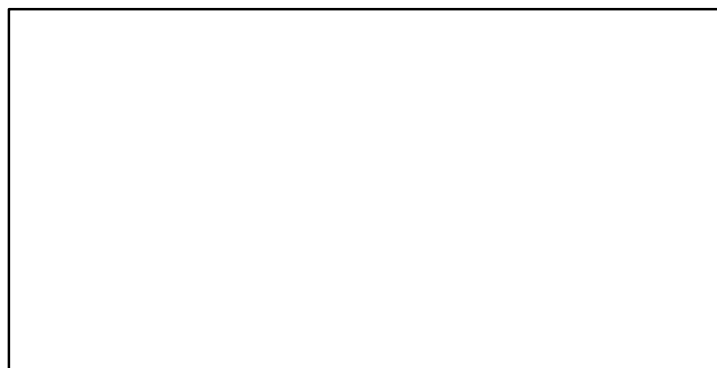
◆ Start Year ◆ End Year * No Data

Northern shrimp Gulf of Maine [PANDALGOM]

TB-MT (1960-2009-IDOINE)



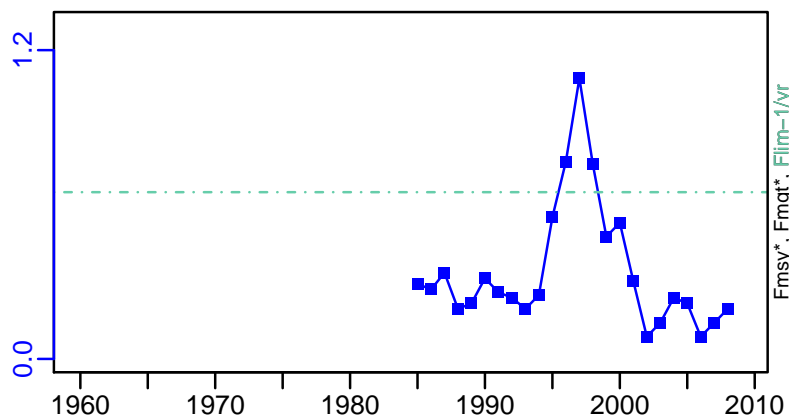
SSB*



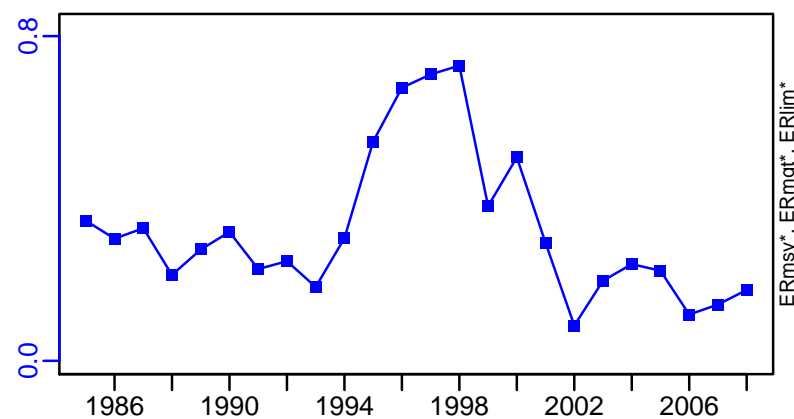
TN *



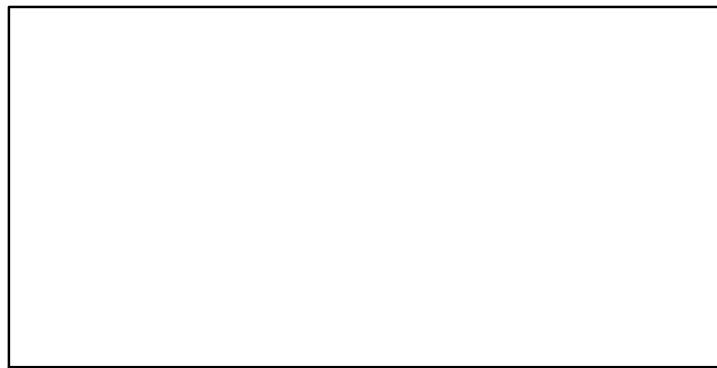
F-1/yr (1960-2009-IDOINE)



ER-ratio (1960-2009-IDOINE)



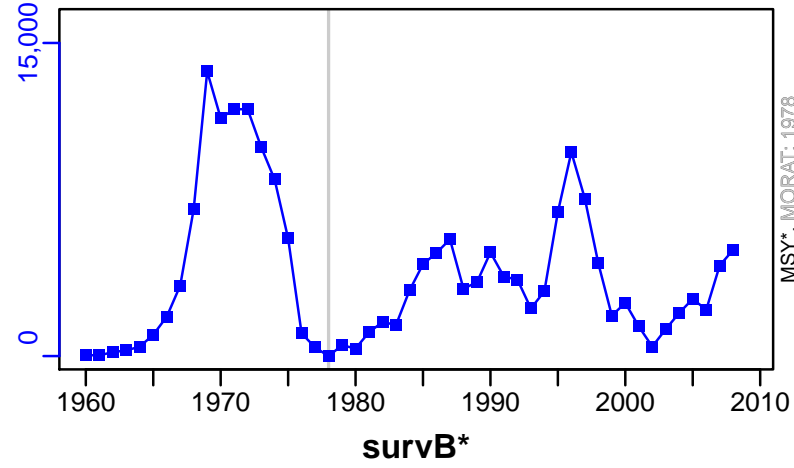
Recruits*



Northern shrimp Gulf of Maine [PANDALGOM]

TL-MT, TC*, RecC* (1960–2009–IDOINE)

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]

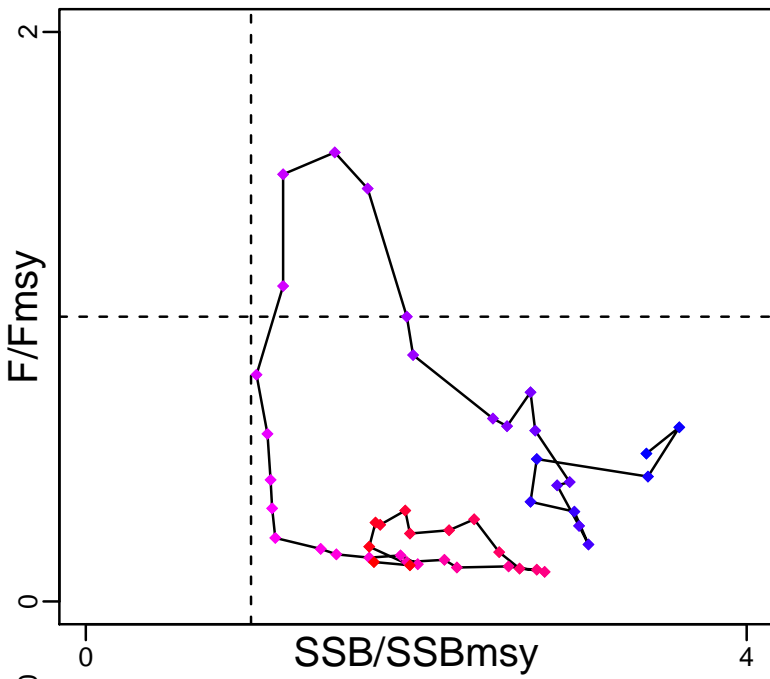
Metadata	
Scientific Name	Pollachius virens
Current Assess ID	NEFSC-POLL5YZ-1969-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2009, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	105,510
Fmsy	Fmsy-1/yr	2016	0.26
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	19,678
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	52,755
Flim	Flim-1/yr	2016	0.26
ERlim	-	-	-

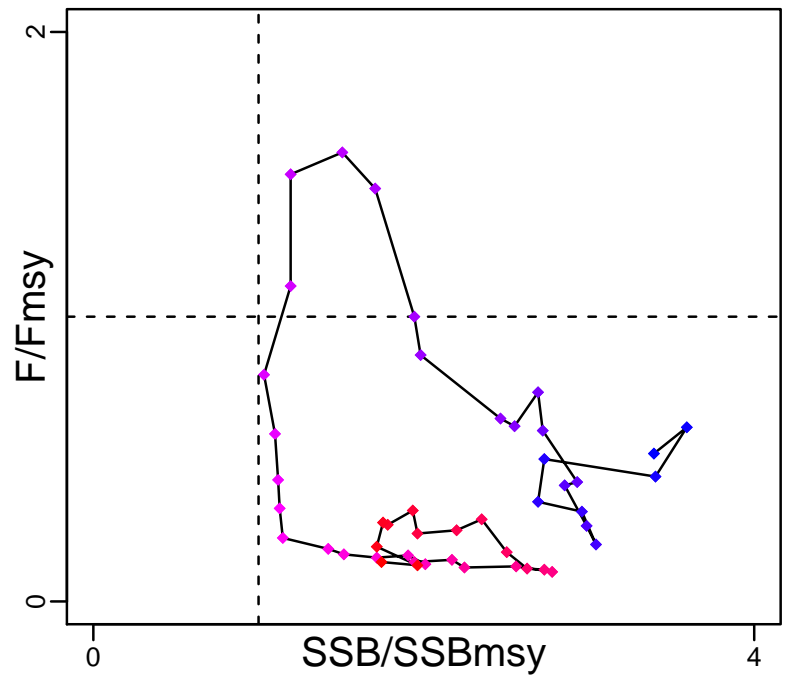
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2009	210,000	-	-
SSB	SSB-MT	2016	184,000	-	-
TN	-	-	-	-	-
R	R-E00	2016	20,100,000	-	1
F	F-1/yr	2016	0.036	-	-
ER	ER-calc-ratio	2009	0.042	-	-
TC	TC-MT	2016	3676		
TL	TL-MT	2009	7950		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	1.744		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.138		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

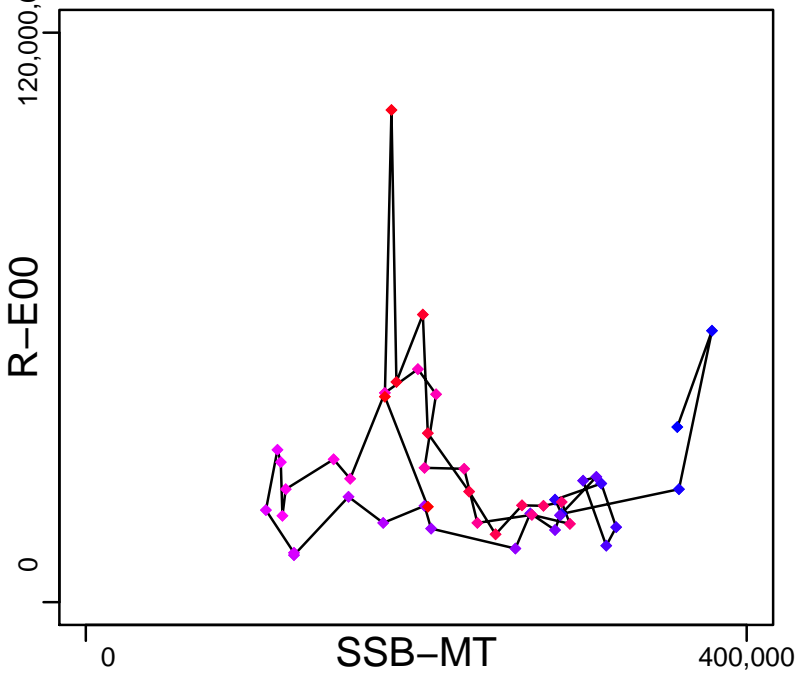
Kobe MSYpref (1969–2016–SISIMP2021)



Kobe MGTpref (1969–2016–SISIMP2021)



Spawner Recruit (1969–2016–SISIMP2021)



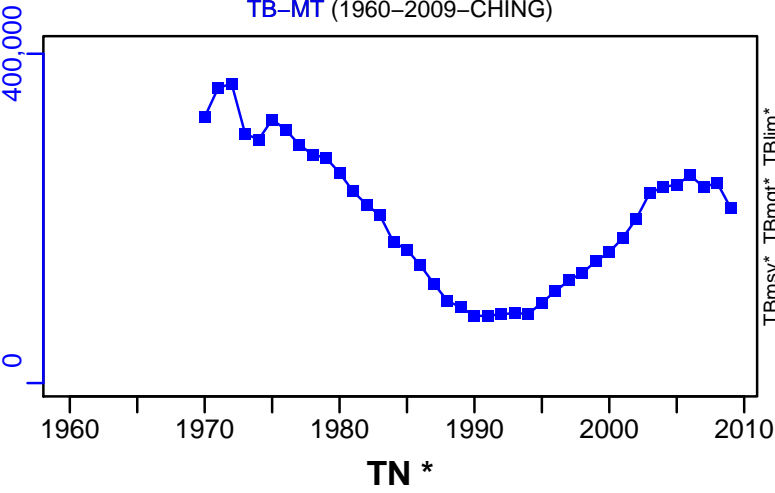
Production*



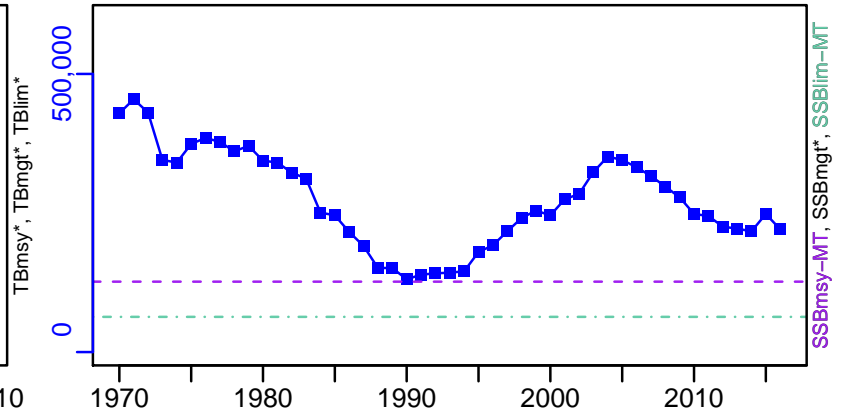
◆ Start Year ◆ End Year * No Data

Pollock Gulf of Maine / Georges Bank [POLL5YZ]

TB-MT (1960–2009–CHING)



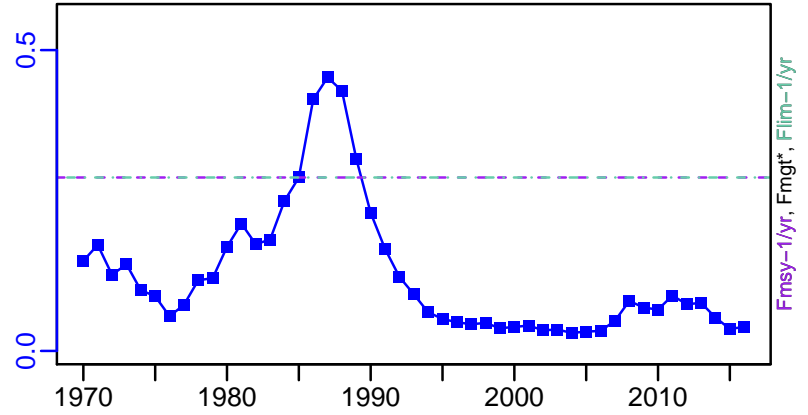
SSB-MT (1969–2016–SISIMP2021)



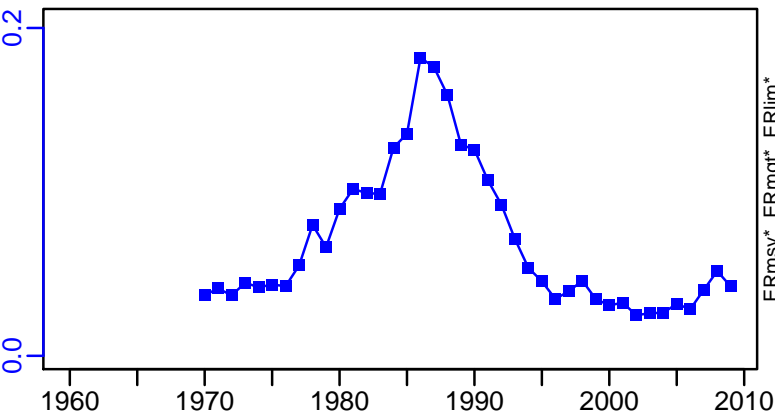
TN *



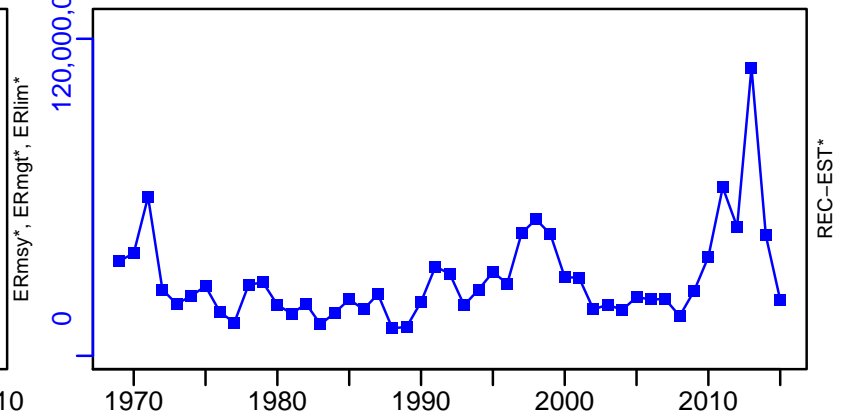
F-1/yr (1969–2016–SISIMP2021)



ER-calc-ratio (1960–2009–CHING)

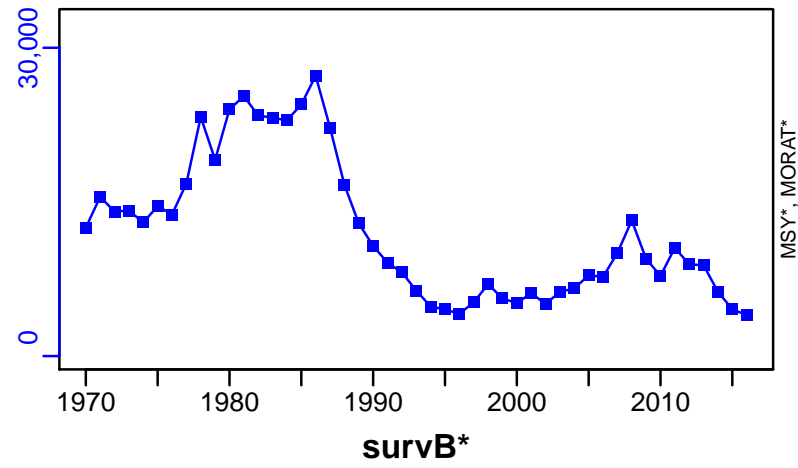


R-E00 (1969–2016–SISIMP2021)



Pollock Gulf of Maine / Georges Bank [POLL5YZ]

TC-MT, TL*, RecC* (1969–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



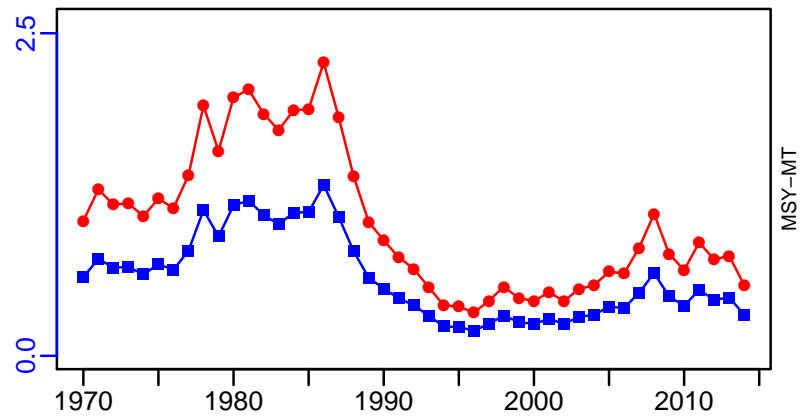
CPUE*



EFFORT*



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



Ocean quahog Atlantic Coast [QUAHATLC]

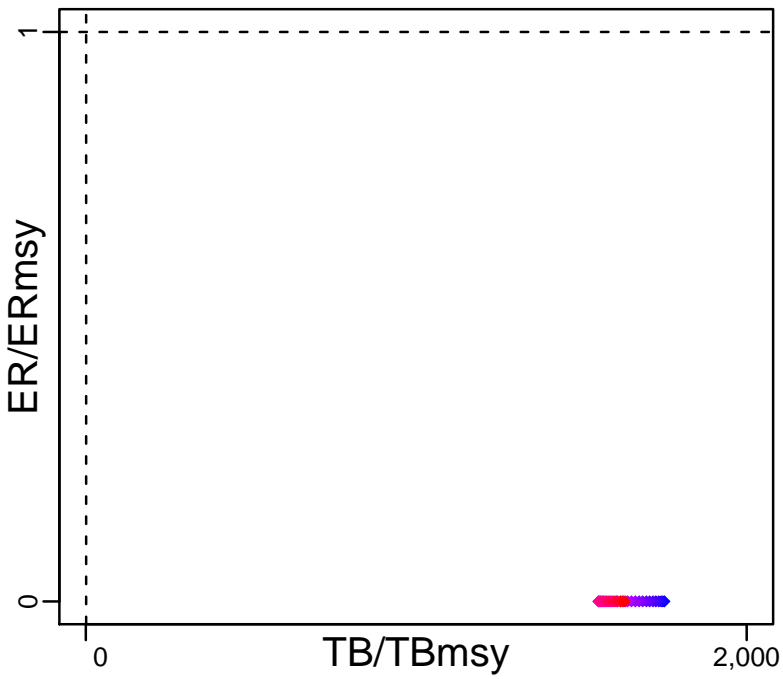
Metadata	
Scientific Name	Arctica islandica
Current Assess ID	NEFSC-QUAHATLC-1980-2016-SISIMP2021
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2011, 2016

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	-	-	-

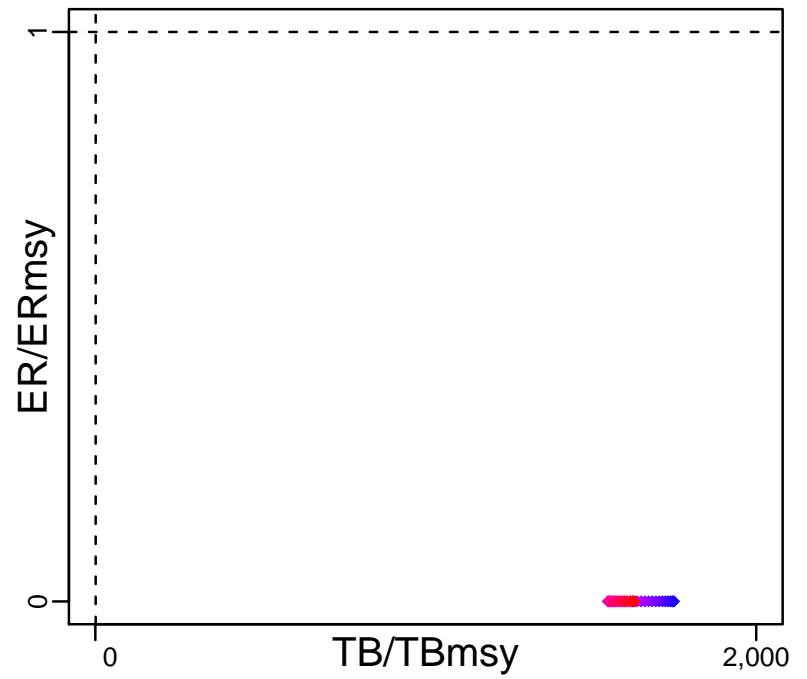
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	3,287,300,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.005	-	-
ER	ER-calc-ratio	2016	0	-	-
TC	TC-MT	2016	9542		
TL	TL-MT	2008	15,500		
TB/TBmsy	TB-MT/TBmsy-MT	2016	1633		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.263		
ER/ERmsy	ER-calc-ratio/ERmsy-calc-ratio	2016	0		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Ocean quahog Atlantic Coast [QUAHATLC]

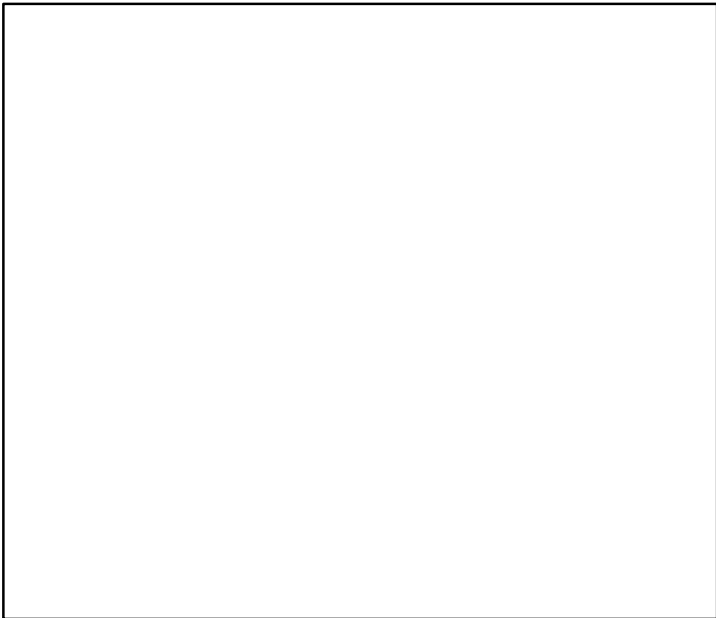
Kobe MSY_{pref} (1980–2016–SISIMP2021)



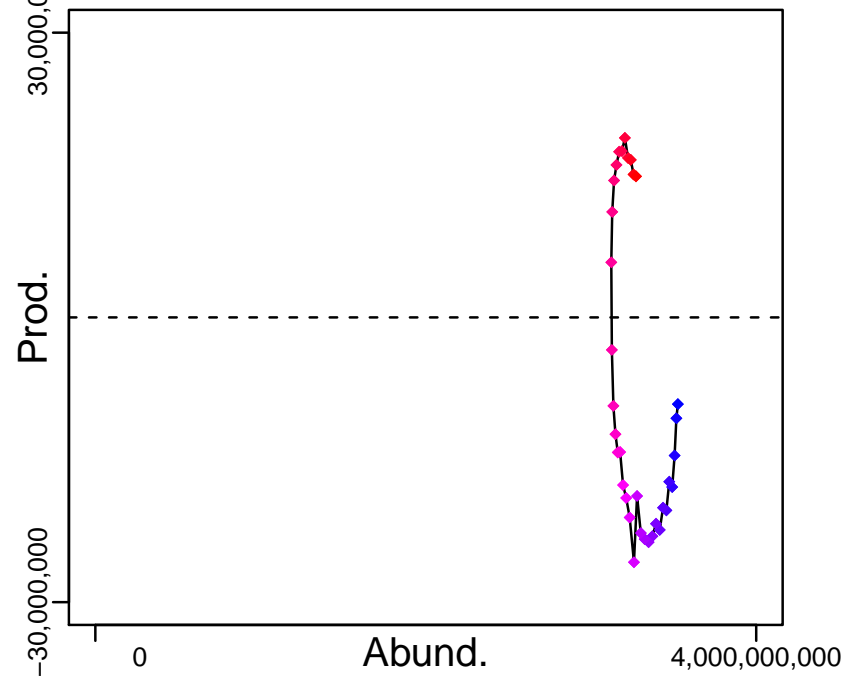
Kobe MGT_{pref} (1980–2016–SISIMP2021)



Spawner Recruit*



Production (1980–2016–SISIMP2021)

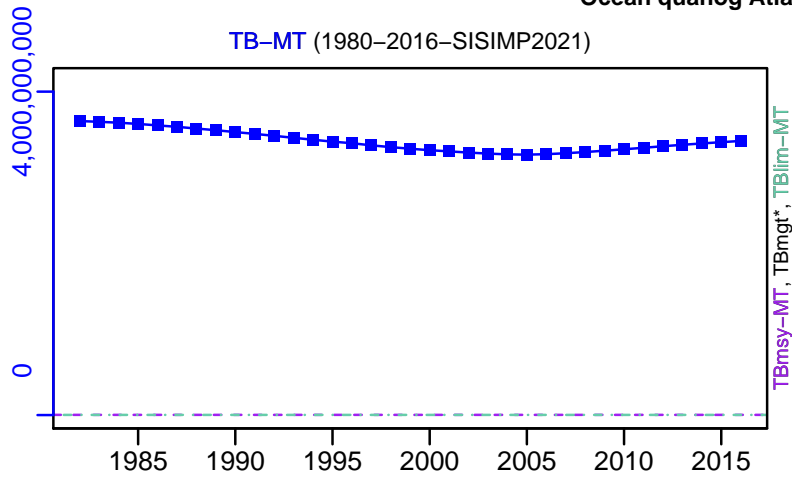


◆ Start Year ◆ End Year * No Data

Ocean quahog Atlantic Coast [QUAHATLC]

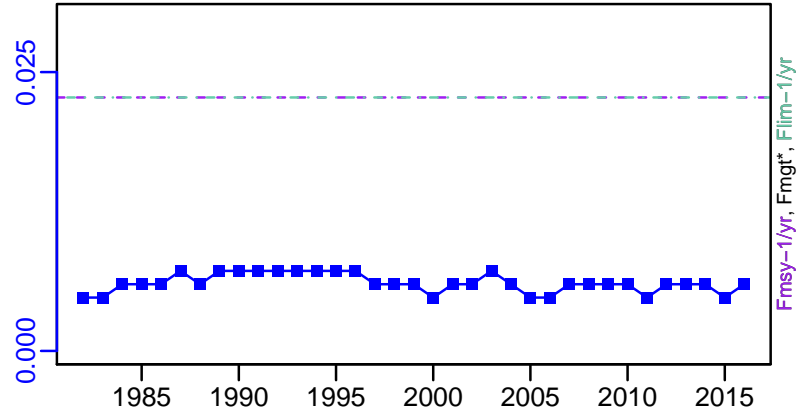
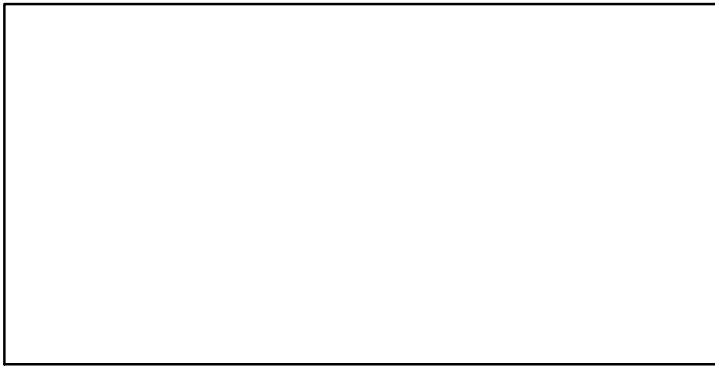
TB-MT (1980-2016-SISIMP2021)

SSB*



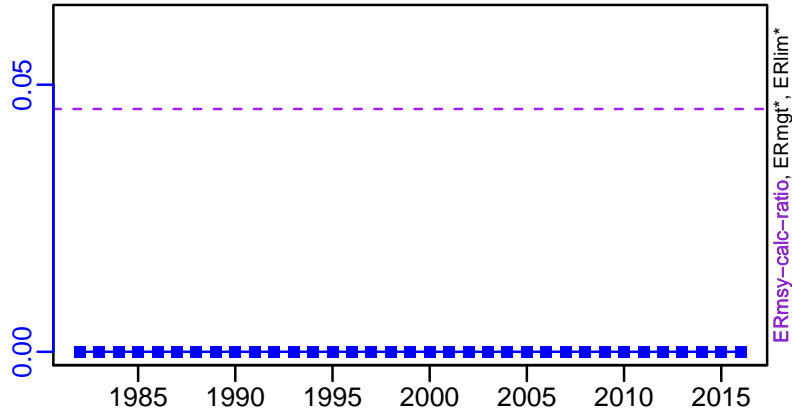
TN *

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



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

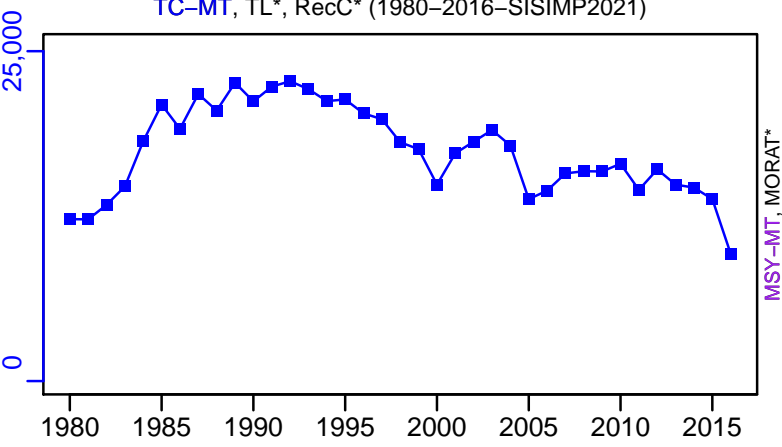
Recruits*



Ocean quahog Atlantic Coast [QUAHATLC]

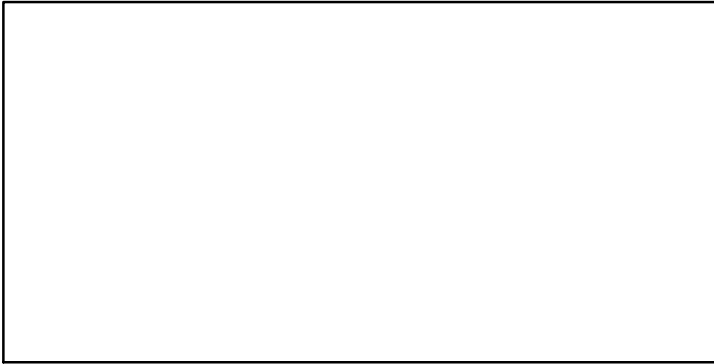
TC-MT, TL*, RecC* (1980-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



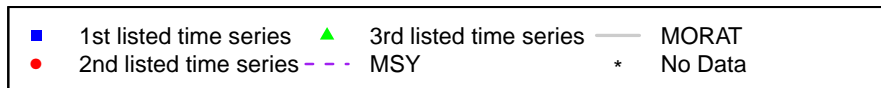
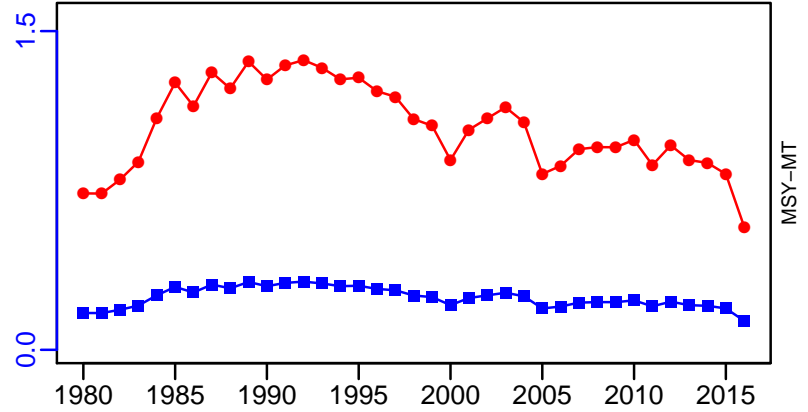
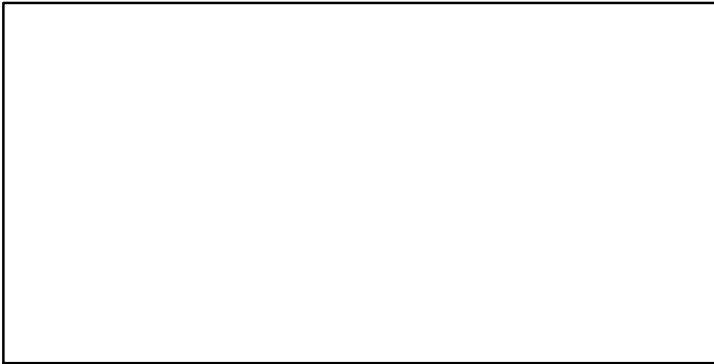
survB*

CPUE*



EFFORT*

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



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

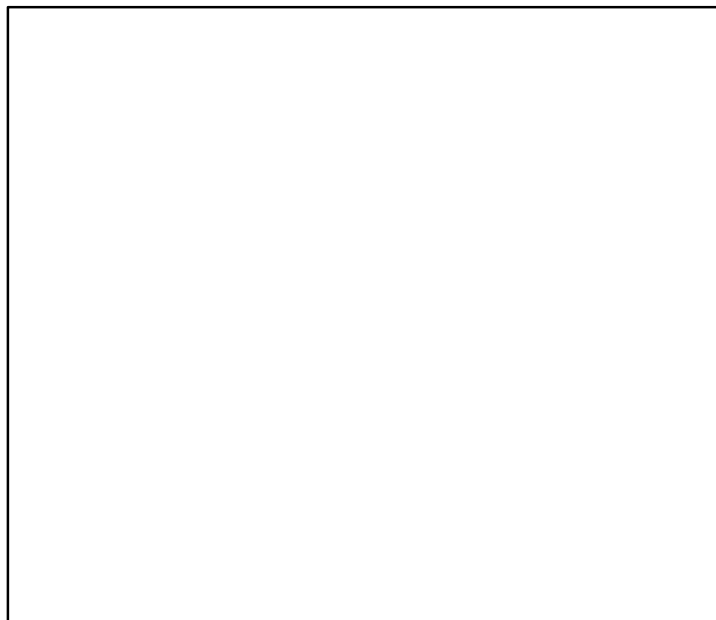
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

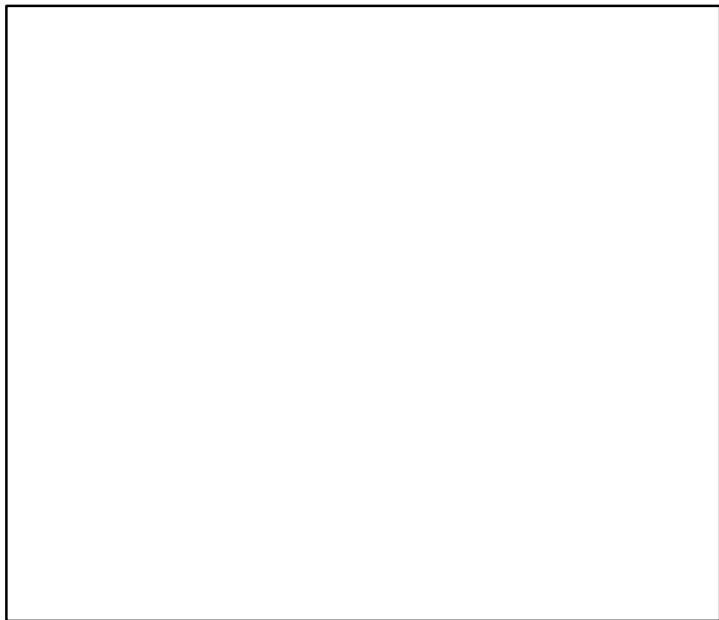
Kobe MSY*



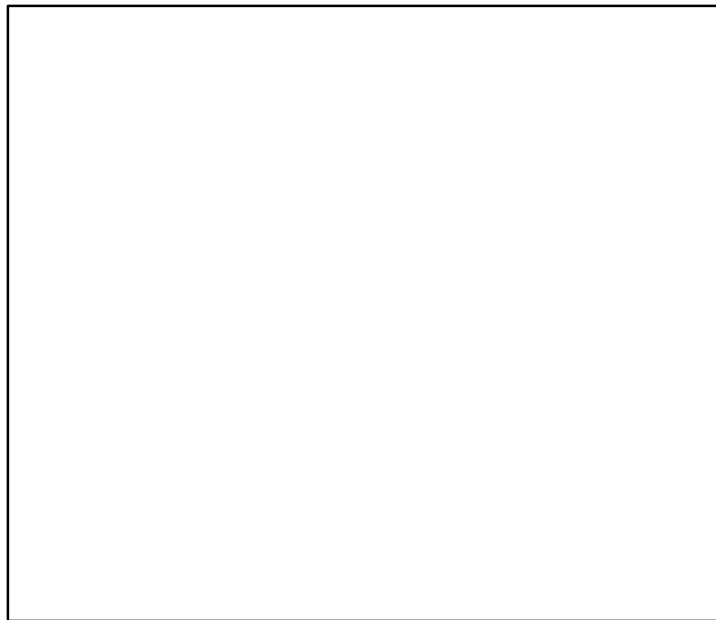
Kobe MGT*



Spawner Recruit*



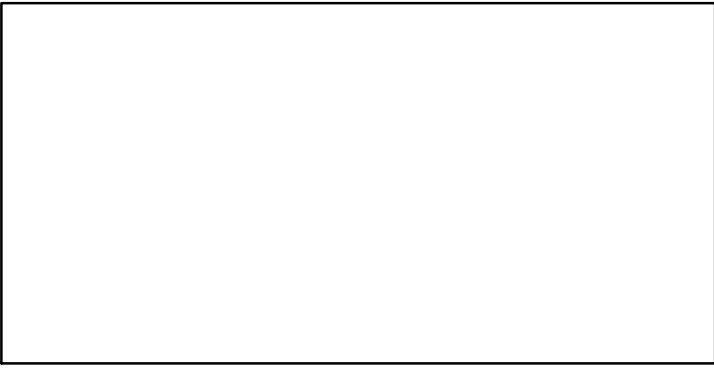
Production*



◆ Start Year ◆ End Year * No Data

Red deepsea crab Northwestern Atlantic [RDEEPCRABNWATL]

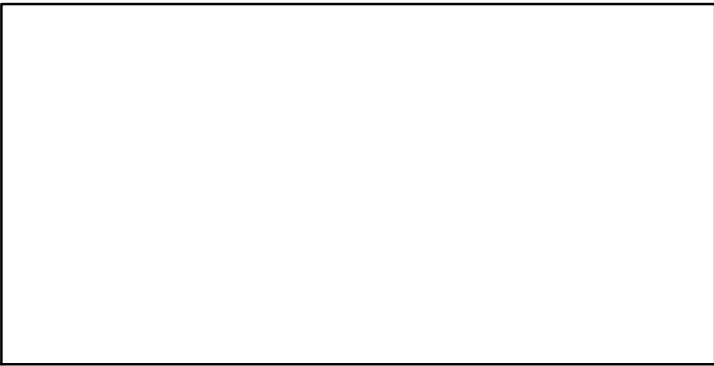
TB*



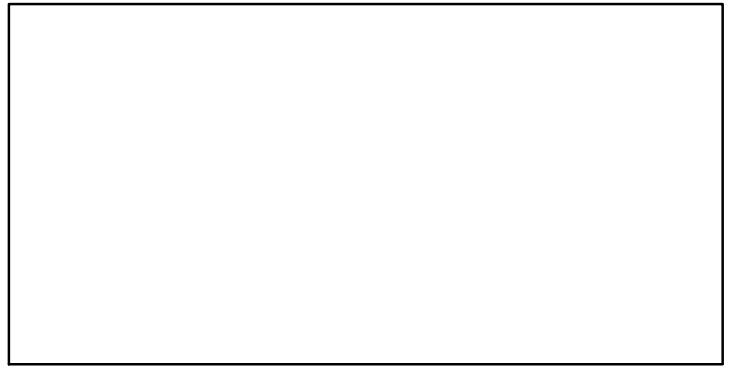
SSB*



TN *



F*



ER*



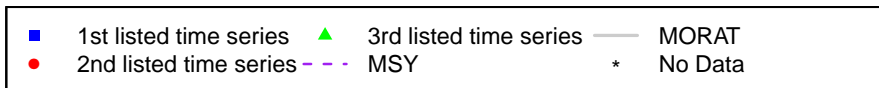
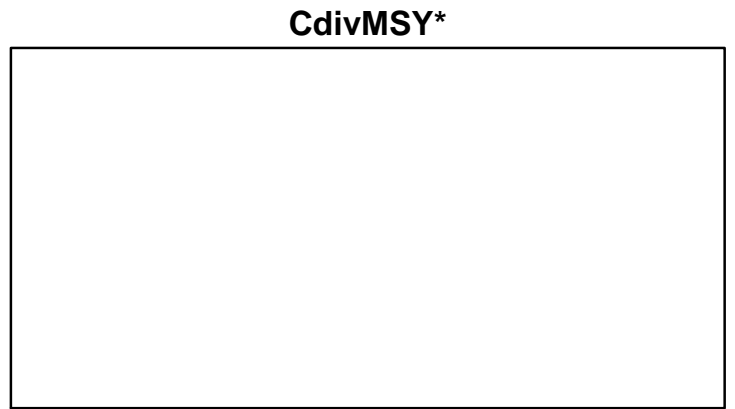
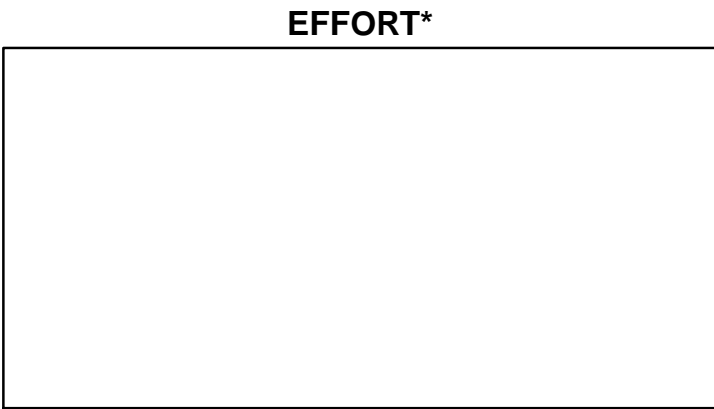
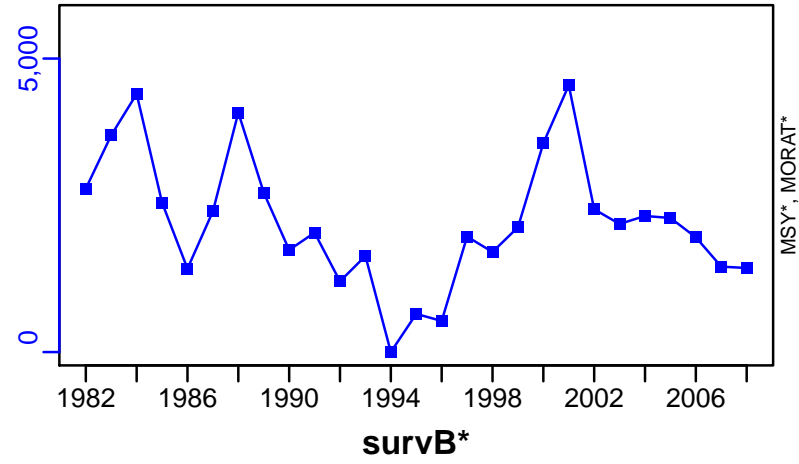
Recruits*



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-1968-2016-SISIMP2021
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

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	2016	403		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*

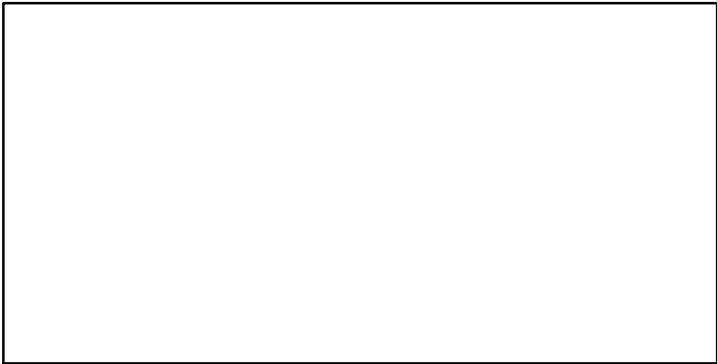


Production*

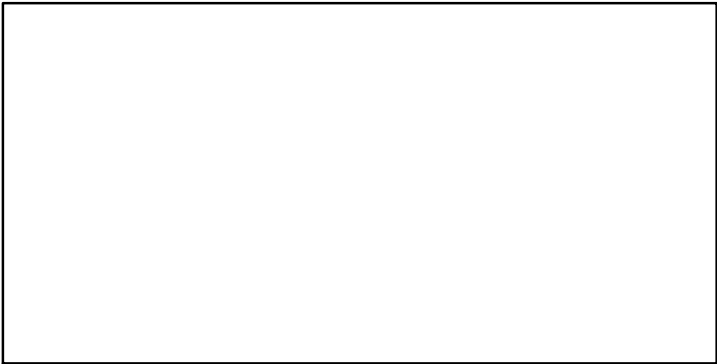


◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



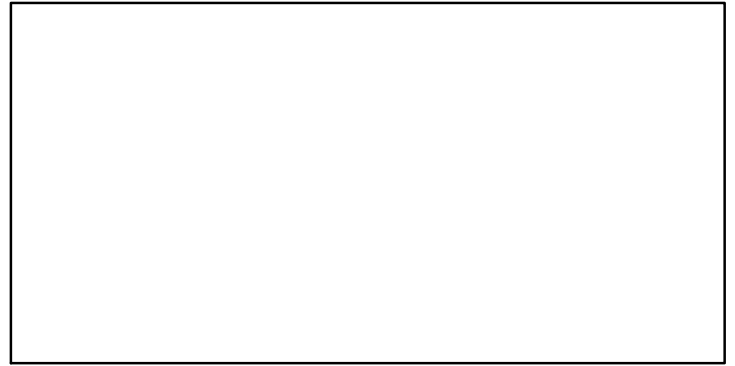
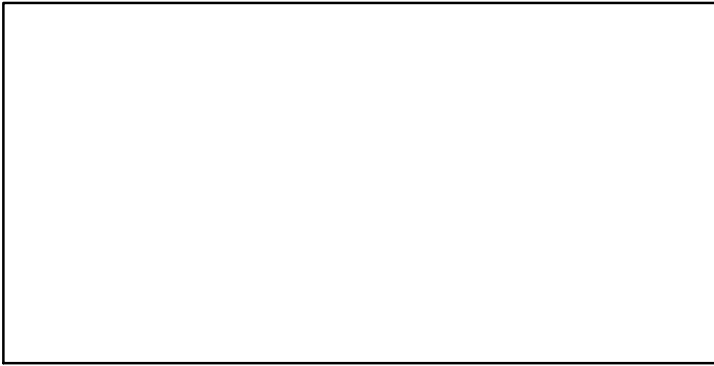
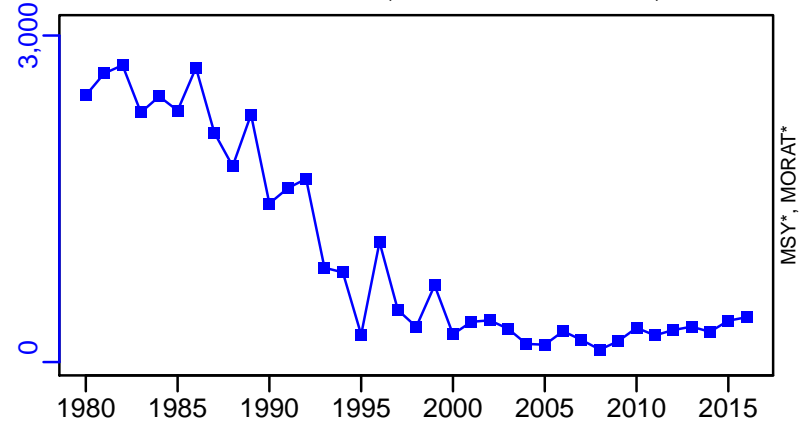
Recruits*



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

TC-MT, TL*, RecC* (1968-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



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

Metadata	
Scientific Name	Urophycis chuss
Current Assess ID	NEFSC-RHAKESGBMATL-1962-2016-SISIMP2021
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

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	2016	1282		
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*

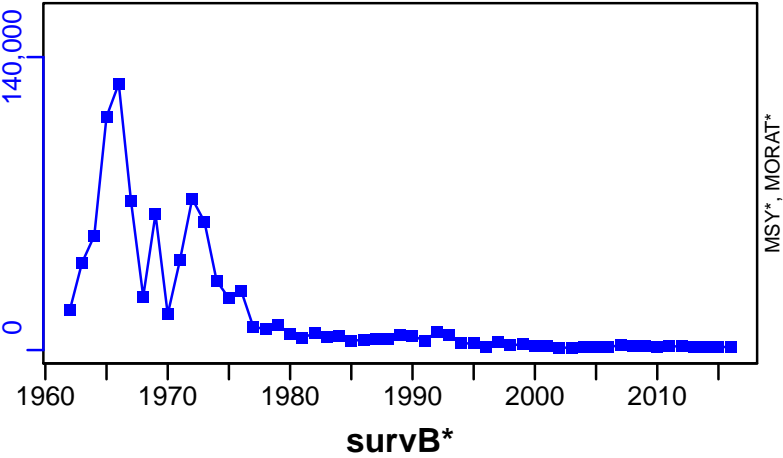


Recruits*

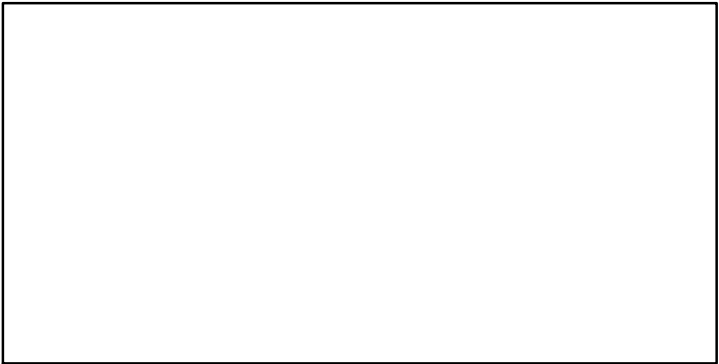


Red hake Southern Georges Bank / Mid-Atlantic [RHAKESGBMATL]

TC-MT, TL*, RecC* (1962-2016-SISIMP2021)



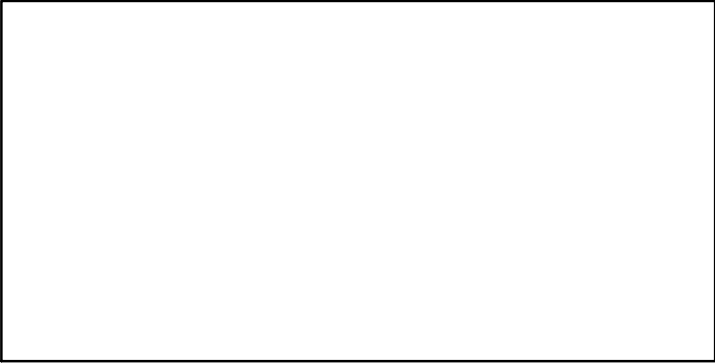
TAC*, Cpair*, Cadv*



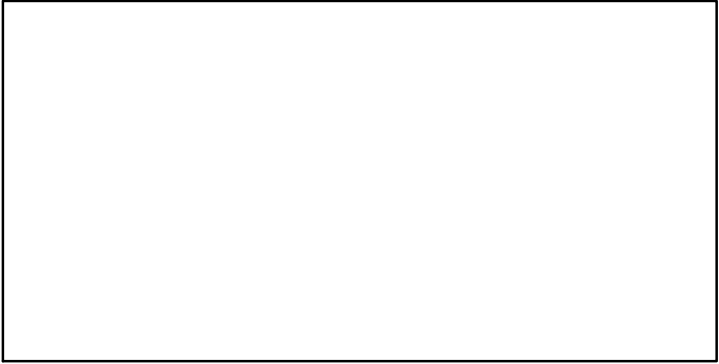
CPUE*



EFFORT*



CdivMSY*



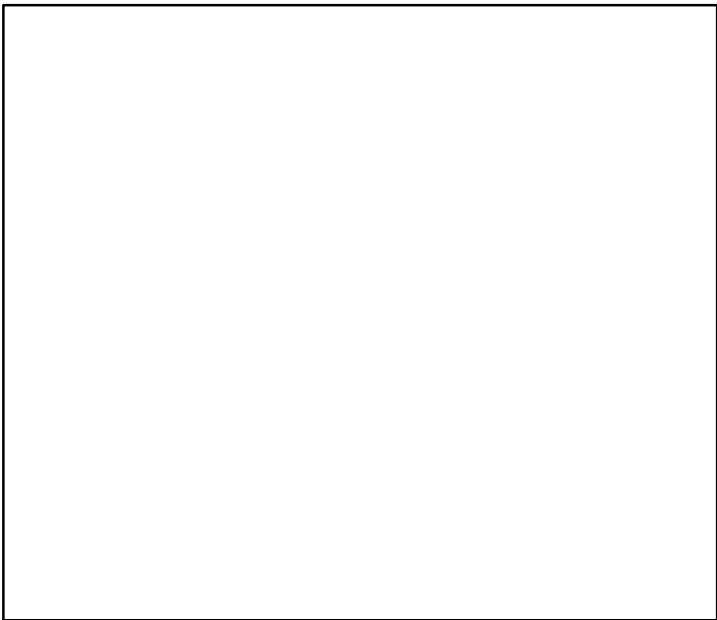
Rosette skate Mid-Atlantic Coast [RSKATMATLC]

Metadata	
Scientific Name	Leucoraja garmani
Current Assess ID	NEFSC-RSKATMATLC-1967-2005-SOSEBEE
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2005

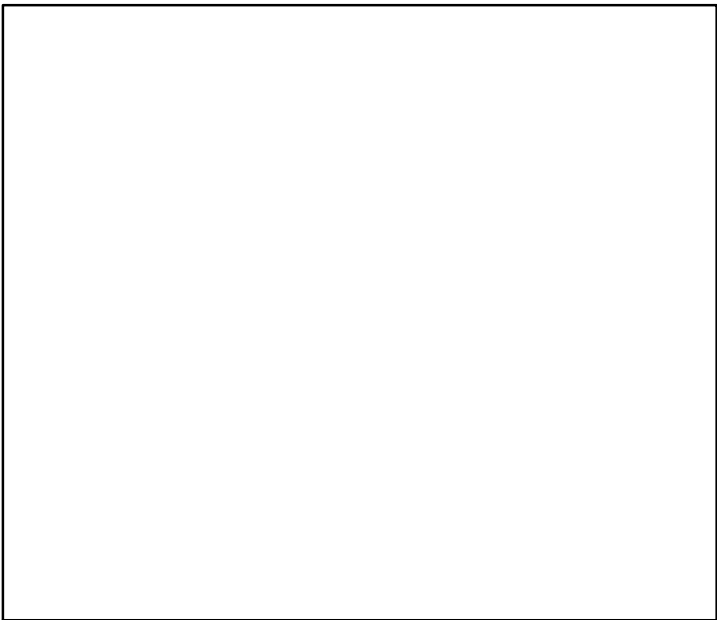
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2005	22		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

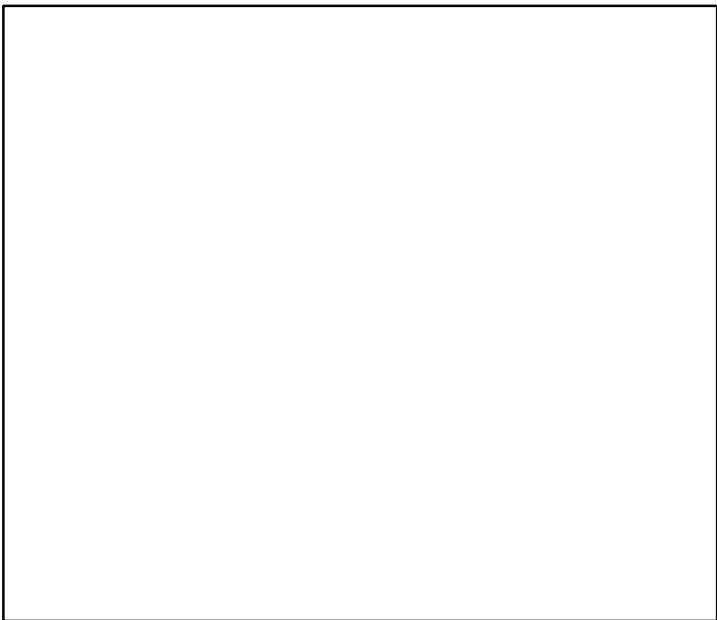
Kobe MSY*



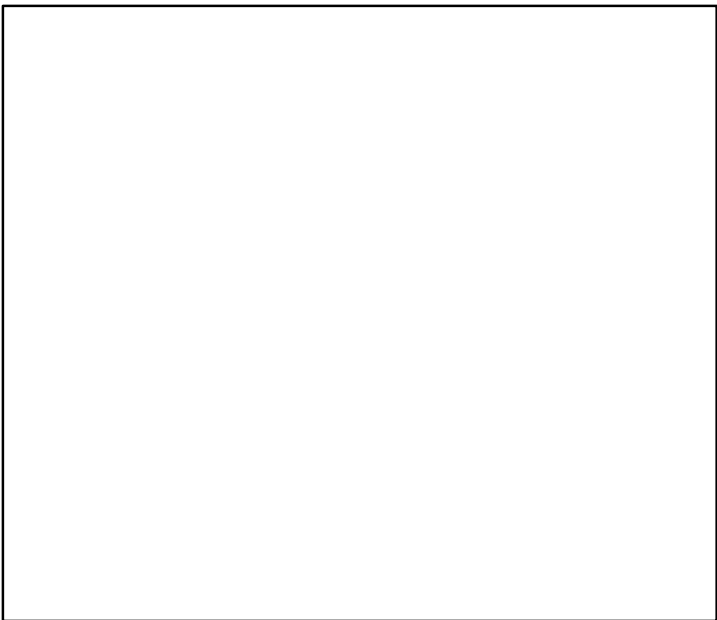
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

Rosette skate Mid-Atlantic Coast [RSKATMATLC]

TB*



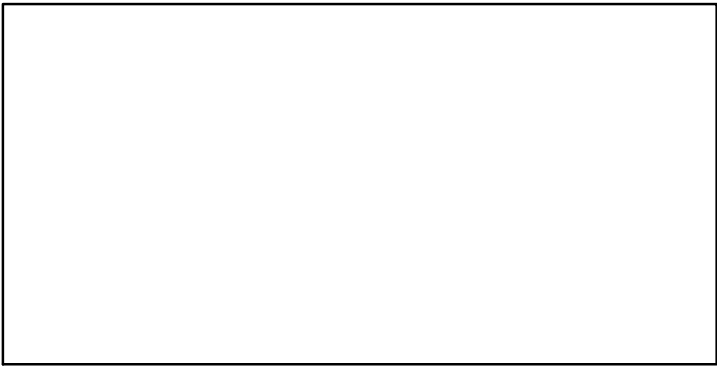
SSB*



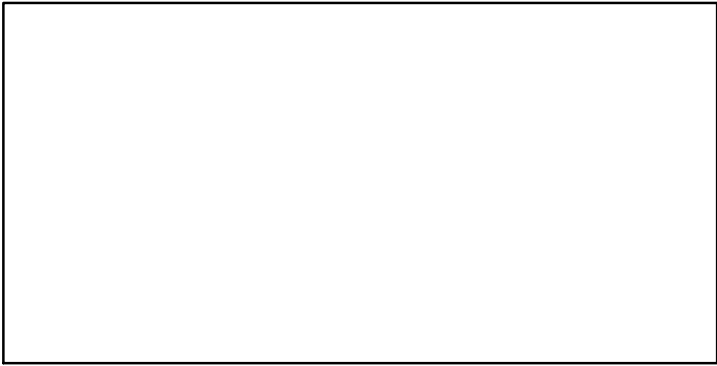
TN *



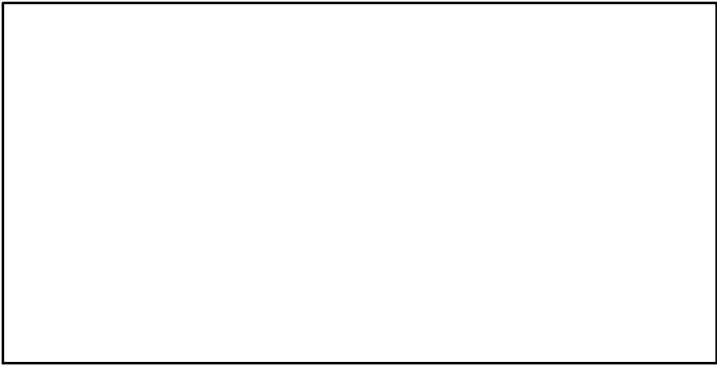
F*



ER*



Recruits*

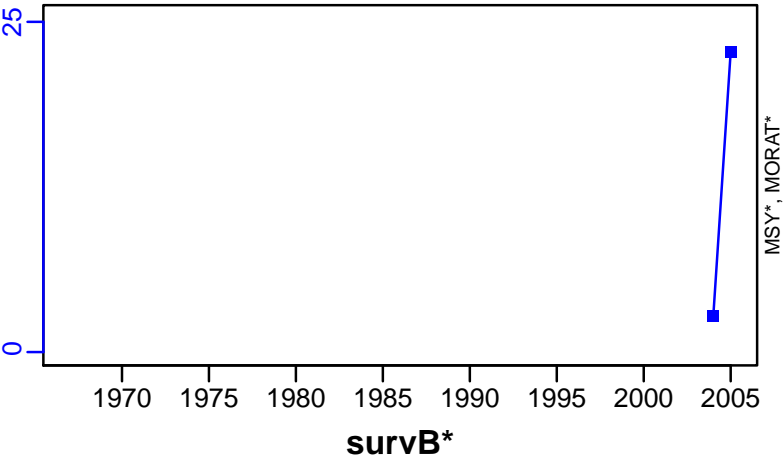


■ Listed time series	- - - Target BRP	— Rec-Est
- - - MSY-based BRP	· · · Lim BRP	* No Data

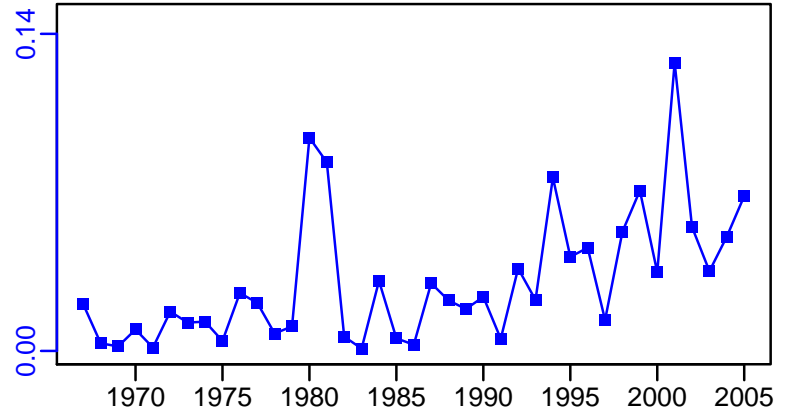
Rosette skate Mid-Atlantic Coast [RSKATMATLC]

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

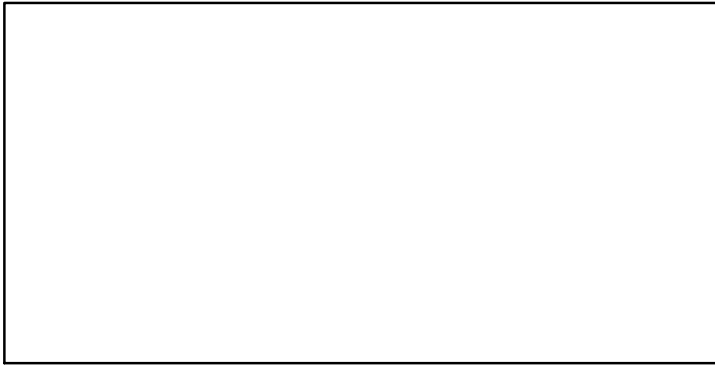
TAC*, Cpair*, Cadv*



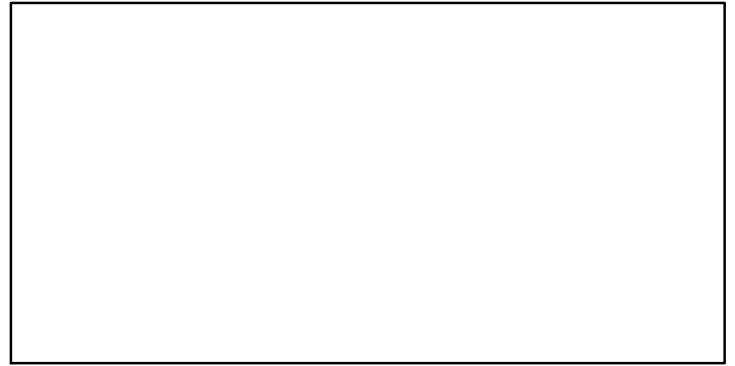
CPUE-kgpertow (1967-2005-SOSEBEE)



EFFORT*



CdivMSY*



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

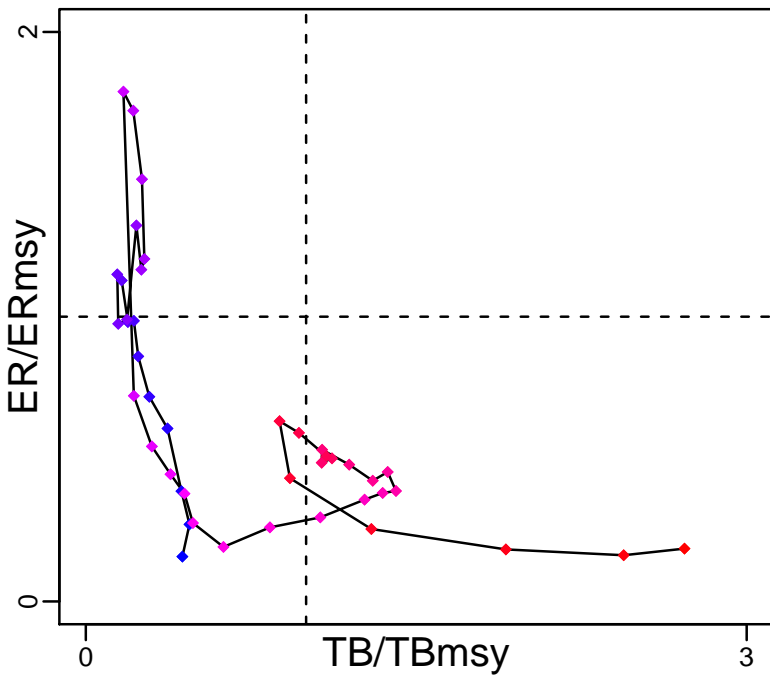
Metadata	
Scientific Name	Placopecten magellanicus
Current Assess ID	NEFSC-SCALL5ZMAB-1964-2017-SISIMP2021
Area	Georges Bank and Mid-Atlantic Bight
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2013, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	TBmsy-MT	2017	116,766
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.64
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	2017	58,383
SSBlim	-	-	-
Flim	Flim-1/yr	2017	0.64
ERlim	-	-	-

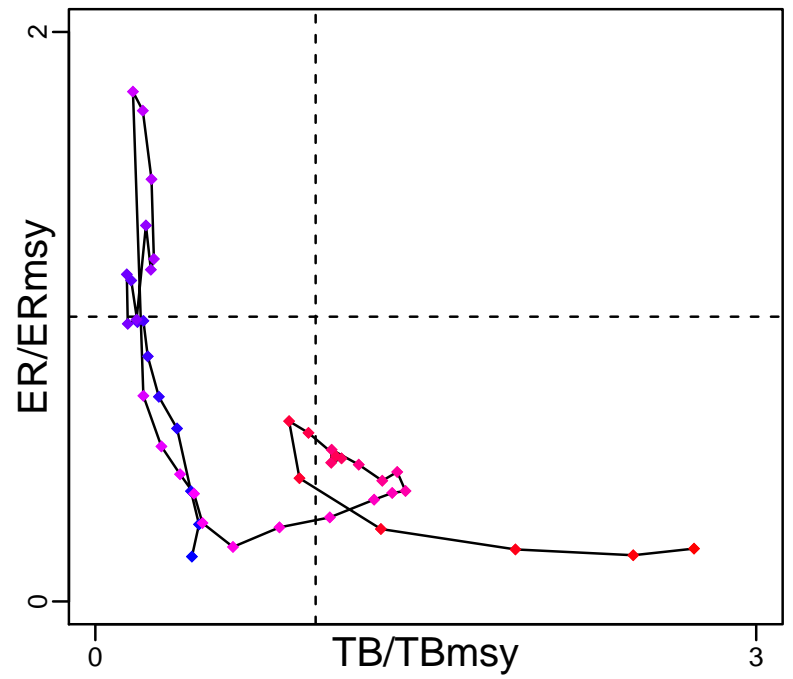
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	317,334	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2017	0.12	-	-
ER	ER-calc-ratio	2017	0.074	-	-
TC	TC-MT	2017	23,458		
TL	TL-MT	2013	18,700		
TB/TBmsy	TB-MT/TBmsy-MT	2017	2.718		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.188		
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]

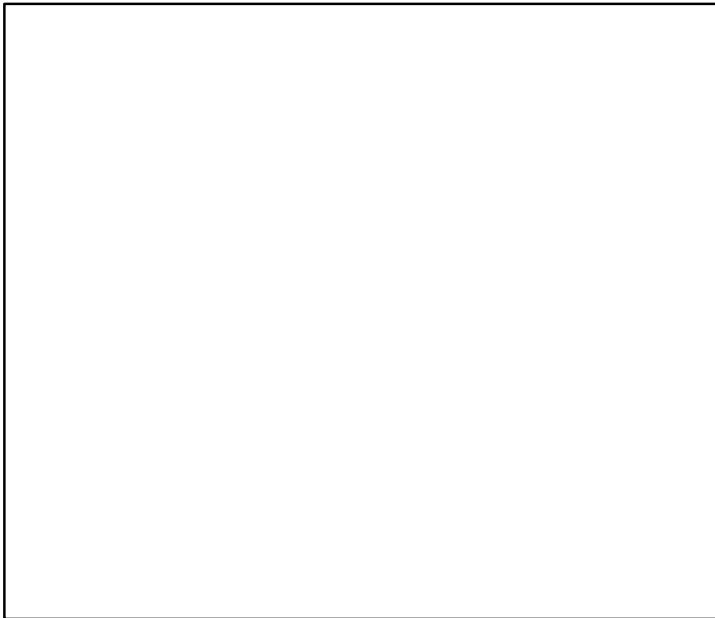
Kobe MSY_{pref} (1964–2017–SISIMP2021)



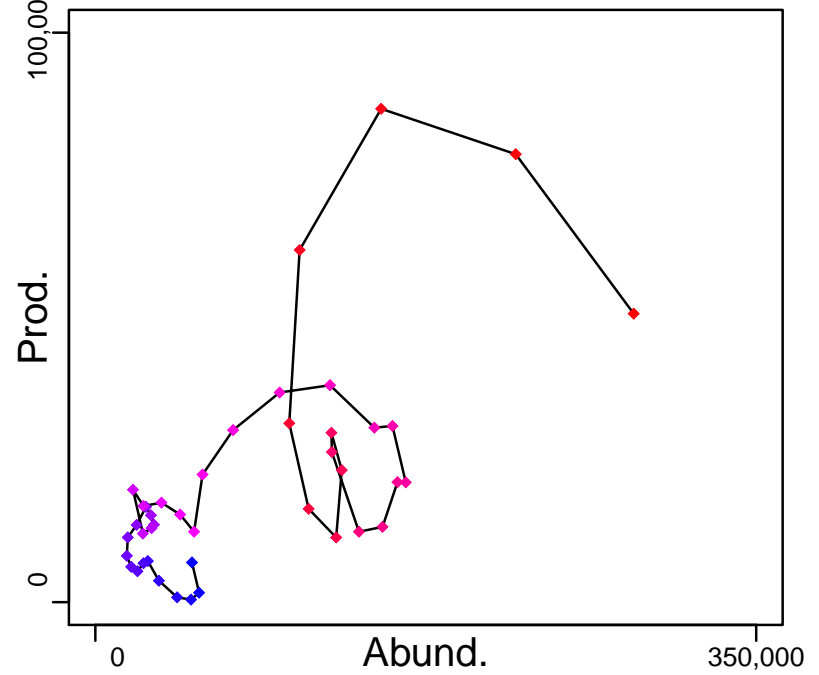
Kobe MGT_{pref} (1964–2017–SISIMP2021)



Spawner Recruit*



Production (1964–2017–SISIMP2021)

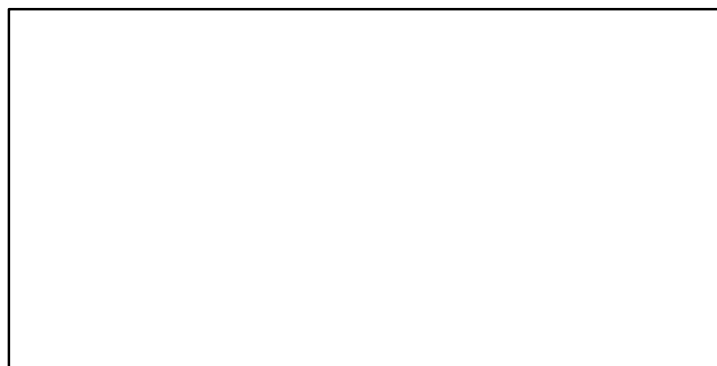
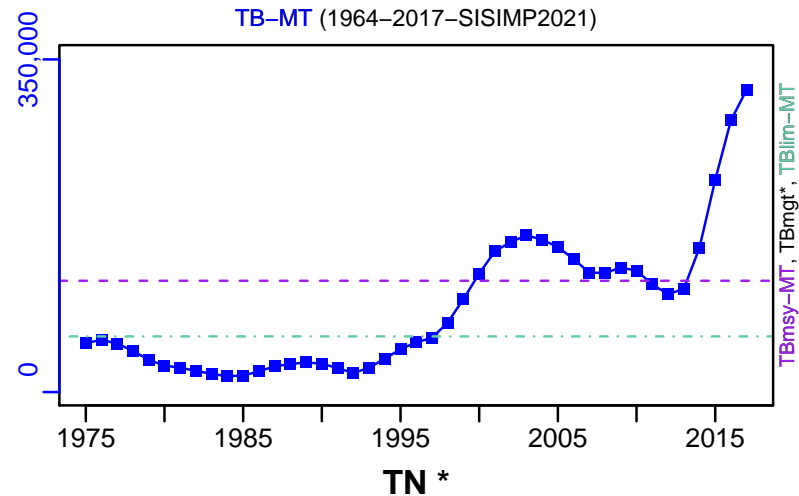


◆ Start Year ◆ End Year * No Data

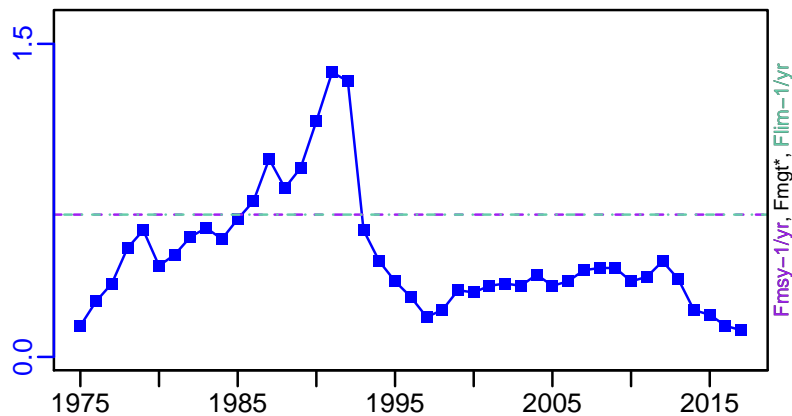
Sea scallop Georges Bank and Mid-Atlantic Bight [SCALL5ZMAB]

TB-MT (1964–2017–SISIMP2021)

SSB*

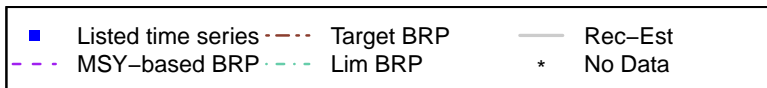
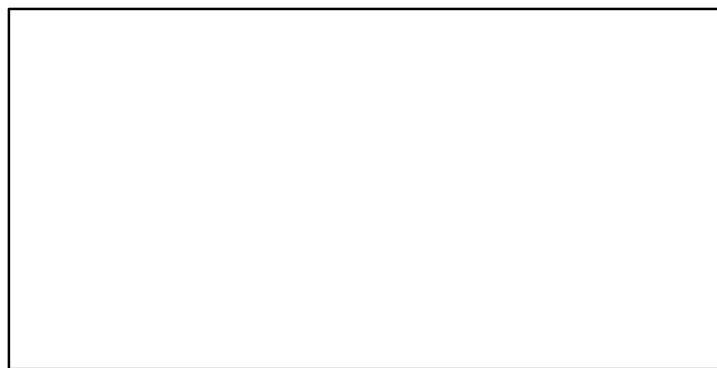
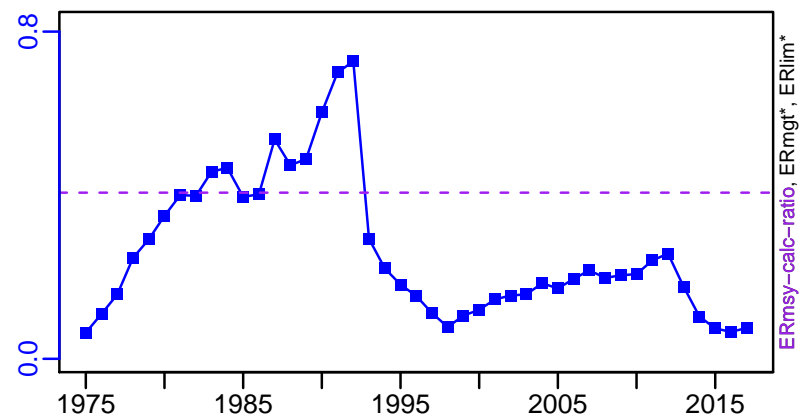


F-1/yr (1964–2017–SISIMP2021)



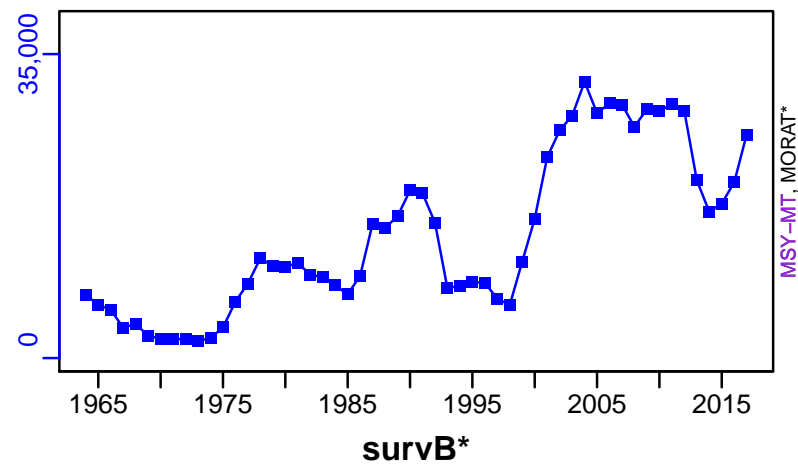
ER-calc-ratio (1964–2017–SISIMP2021)

Recruits*



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

TC-MT, TL*, RecC* (1964–2017–SISIMP2021)



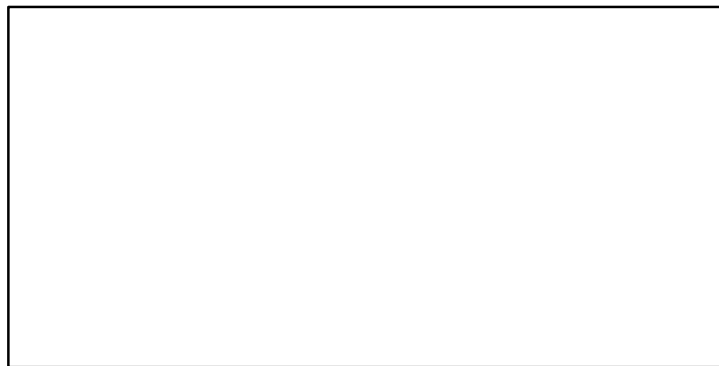
TAC*, Cpair*, Cadv*



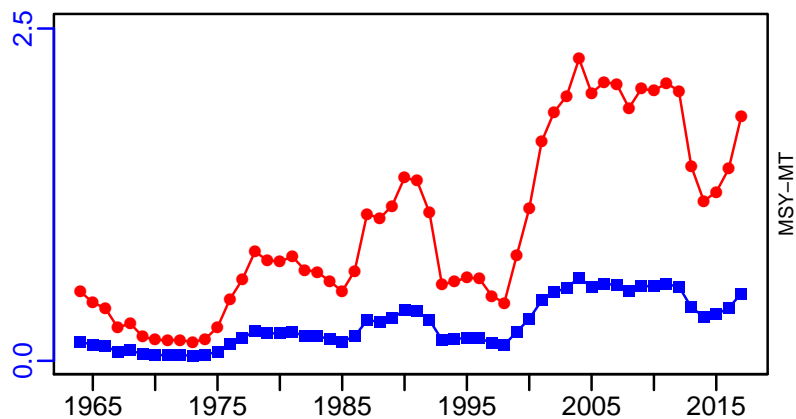
CPUE*



EFFORT*



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



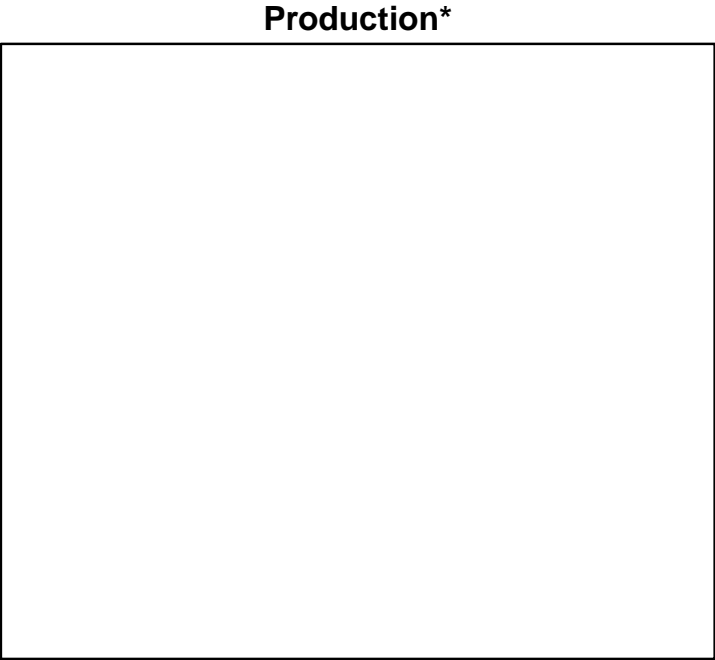
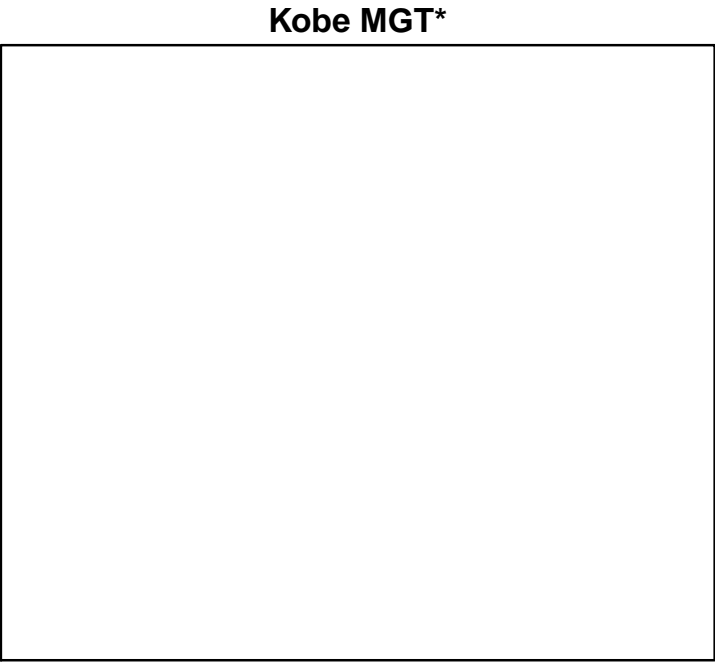
■ 1st listed time series ▲ 3rd listed time series — MORAT
 ● 2nd listed time series - - - MSY * No Data

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*



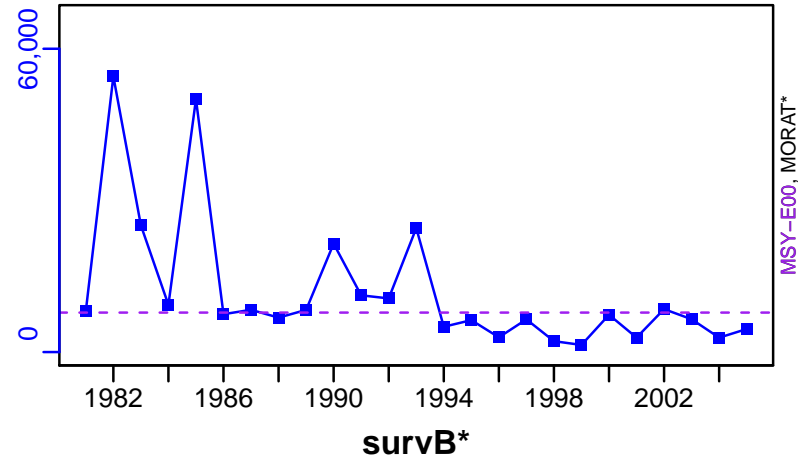
Recruits*



Scalloped hammerhead Atlantic [SCHHEADATL]

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

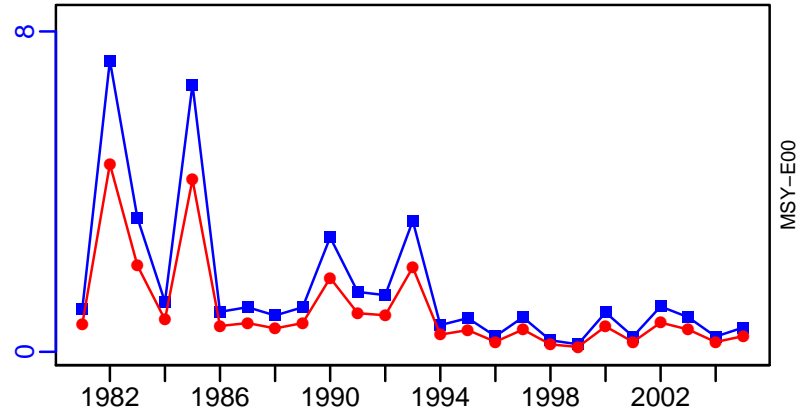
TAC*, Cpair*, Cadv*



EFFORT*



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



Scup Northwestern Atlantic Coast [SCUPNWATLC]

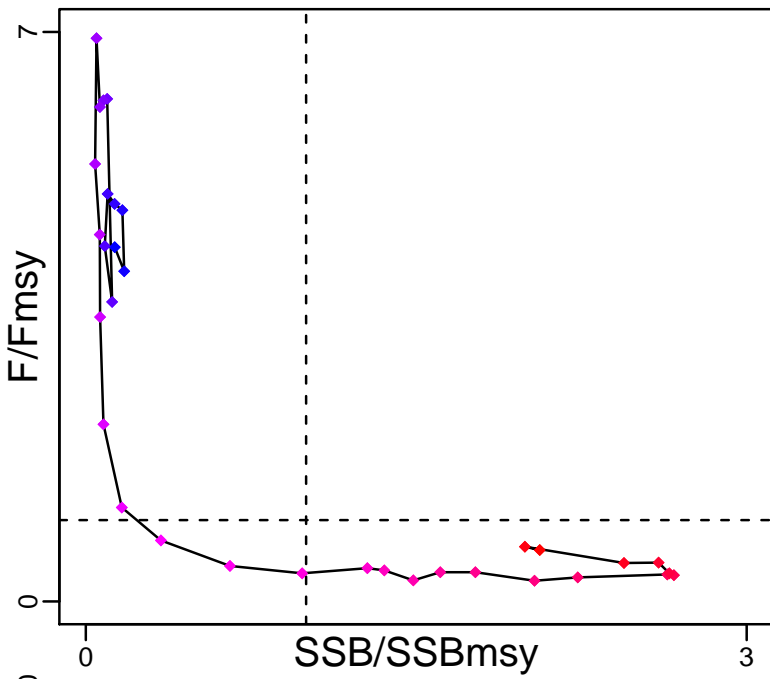
Metadata	
Scientific Name	Stenotomus chrysops
Current Assess ID	NEFSC-SCUPNWATLC-1981-2016-SISIMP2021
Area	Northwestern Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	87,302
Fmsy	Fmsy-1/yr	2016	0.22
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	11,752
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	43,651
Flim	Flim-1/yr	2016	0.22
ERlim	-	-	-

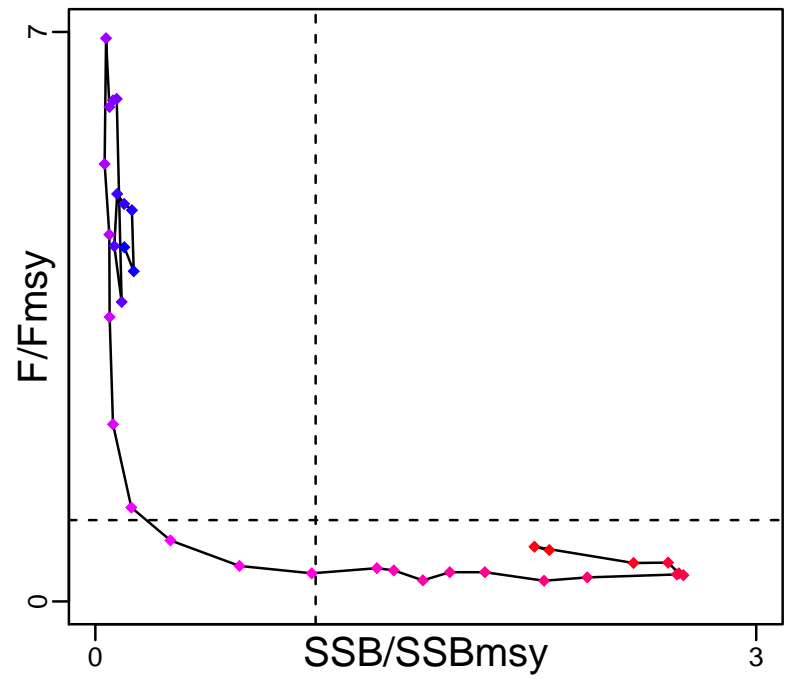
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	179,898	-	-
TN	-	-	-	-	-
R	R-E00	2016	6.5×10^7	-	0
F	F-1/yr	2016	0.139	-	-
ER	ER-ratio	2007	0.029	-	-
TC	TC-MT	2016	12,205		
TL	TL-MT	2007	4200		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	2.061		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.632		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Scup Northwestern Atlantic Coast [SCUPNWATLC]

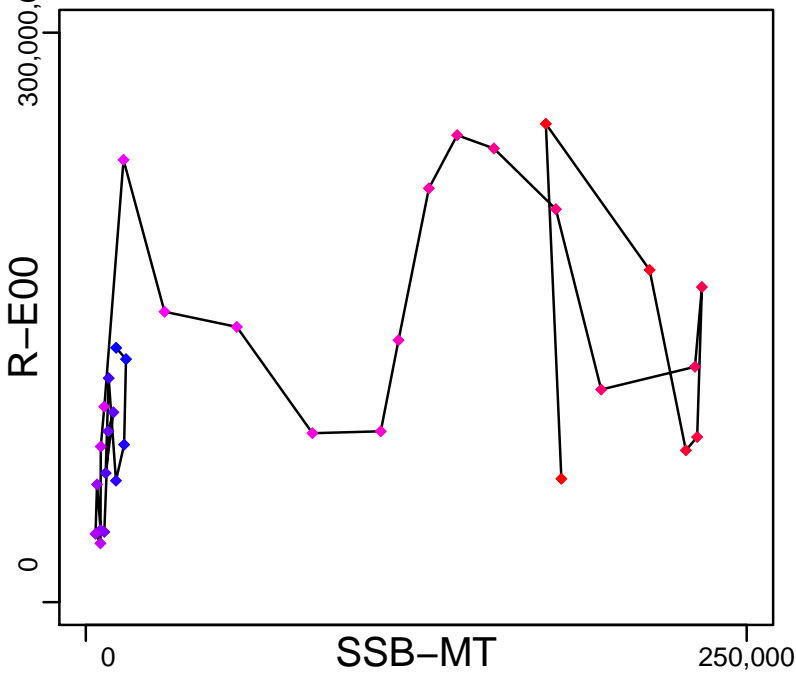
Kobe MSY_{pref} (1981–2016–SISIMP2021)



Kobe MGT_{pref} (1981–2016–SISIMP2021)



Spawner Recruit (1981–2016–SISIMP2021)



Production*



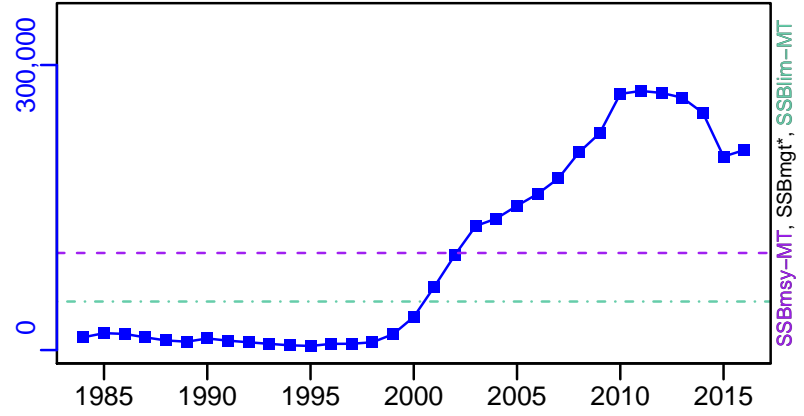
◆ Start Year ◆ End Year * No Data

Scup Northwestern Atlantic Coast [SCUPNWATLC]

TB*



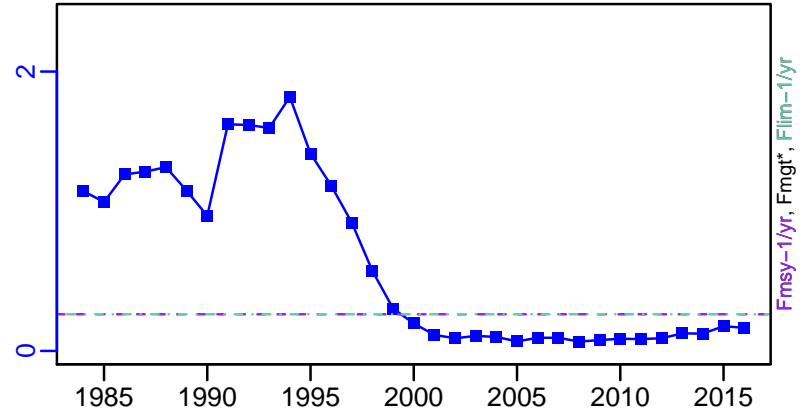
SSB-MT (1981–2016–SISIMP2021)



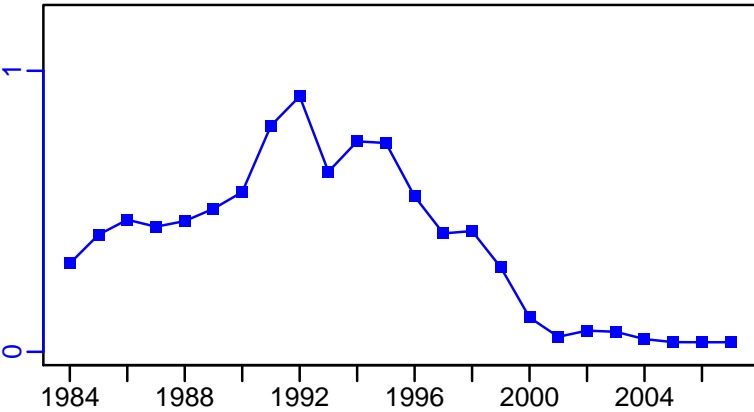
TN *



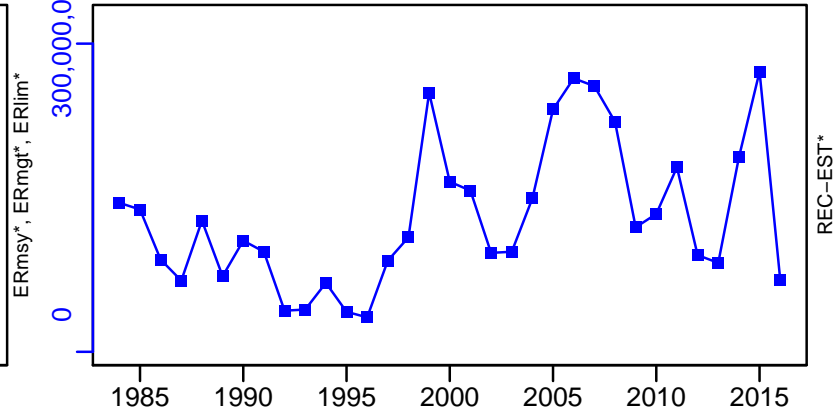
F-1/yr (1981–2016–SISIMP2021)



ER-ratio (1960–2007–TERCEIRO)

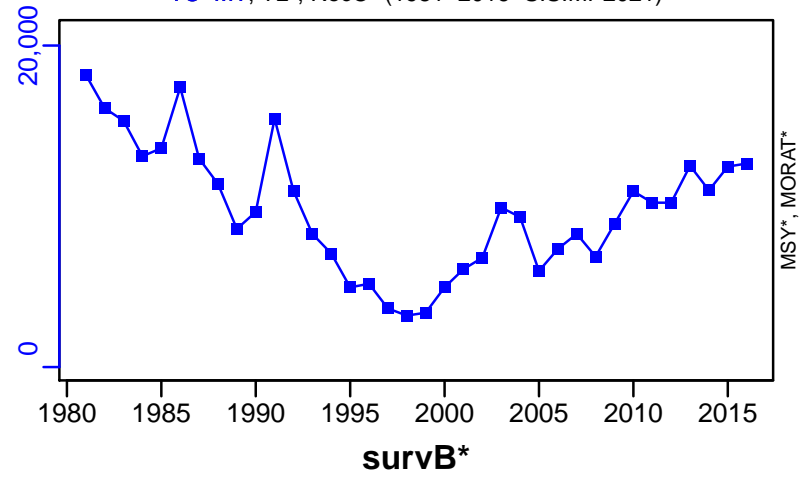


R-E00 (1981–2016–SISIMP2021)



Scup Northwestern Atlantic Coast [SCUPNWATLC]

TC-MT, TL*, RecC* (1981-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



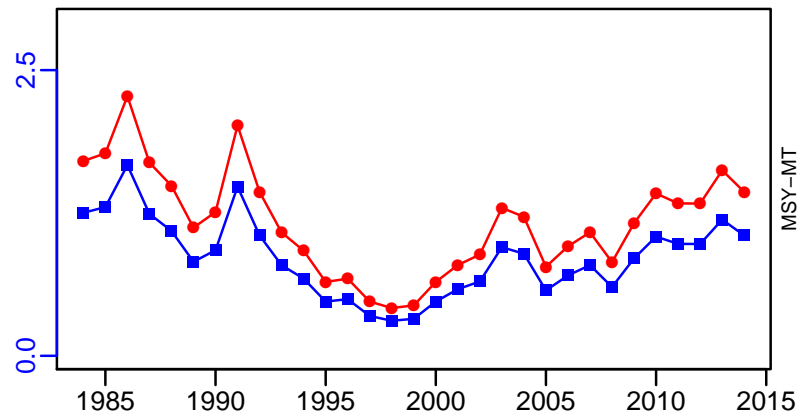
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1984-2014-SISIMP2016)



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

Spiny dogfish Atlantic Coast [SDOGATLC]

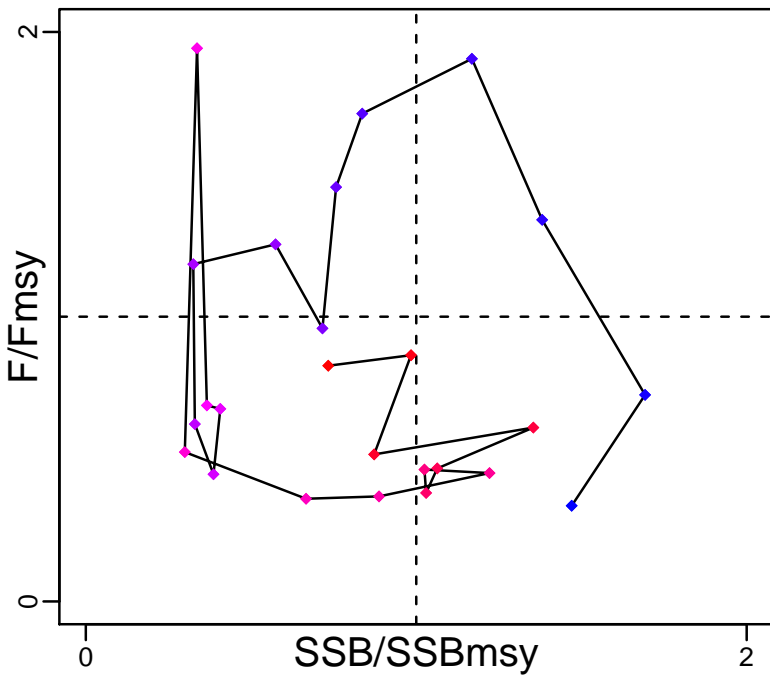
Metadata	
Scientific Name	Squalus acanthias
Current Assess ID	NEFSC-SDOGATLC-1968-2018-SISIMP2021
Area	Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2006, 2018, 2015

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	-	-	-

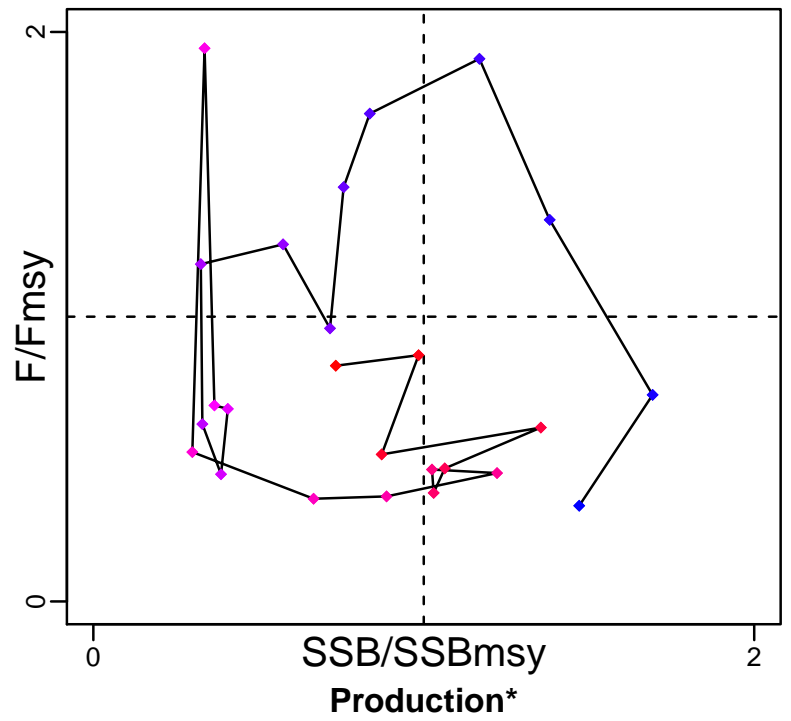
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2006	454,000	-	-
SSB	SSB-MT	2018	106,753	-	-
TN	-	-	-	-	-
R	R-MT	2018	1510	-	-
F	F-1/yr	2018	0.202	-	-
ER	ER-ratio	2006	0.017	-	-
TC	TC-MT	2018	14,326		
TL	TL-MT	2006	3020		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2018	0.67		
F/Fmsy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

Spiny dogfish Atlantic Coast [SDOGATLC]

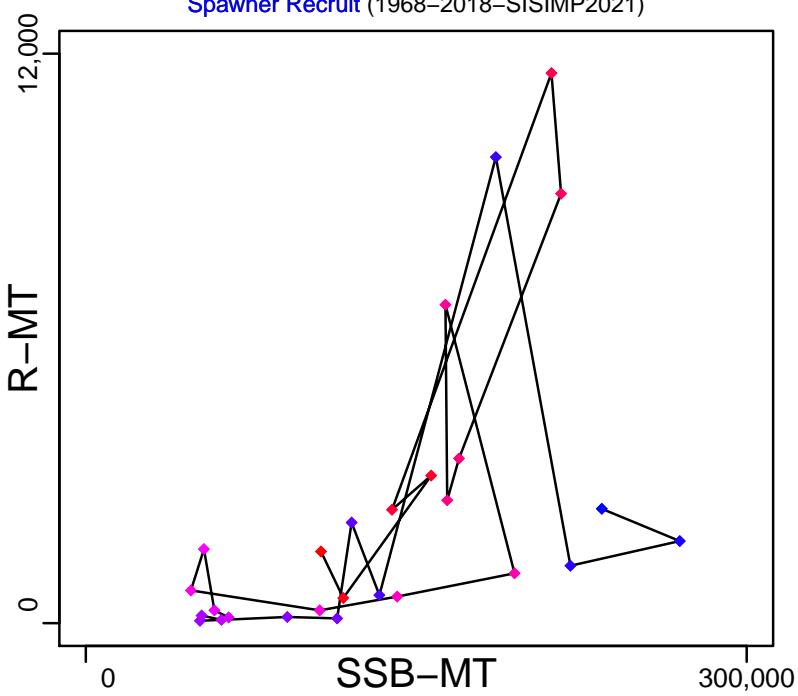
Kobe MSY_{pref} (1968–2018–SISIMP2021)



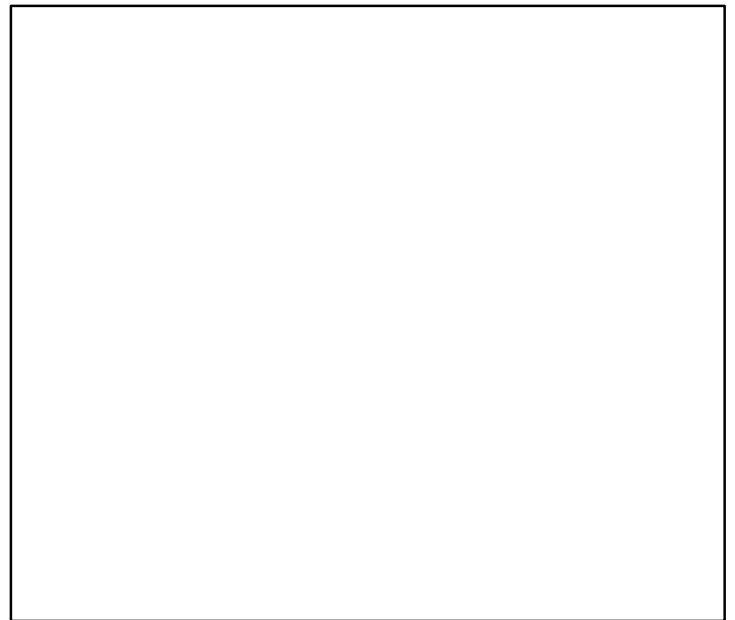
Kobe MGT_{pref} (1968–2018–SISIMP2021)



Spawner Recruit (1968–2018–SISIMP2021)



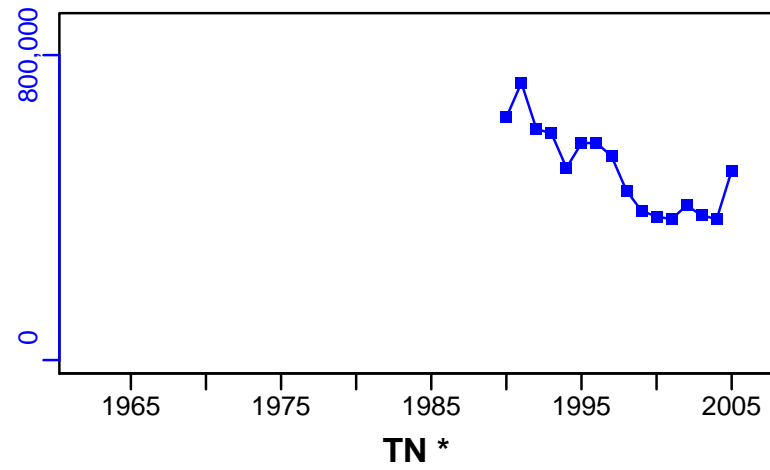
Production*



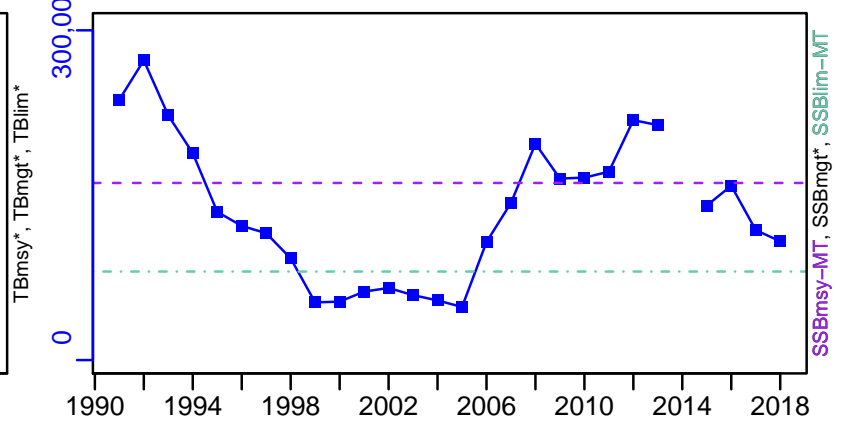
◆ Start Year ◆ End Year * No Data

Spiny dogfish Atlantic Coast [SDOGATLC]

TB-MT (1962–2006–SOSEBEE)



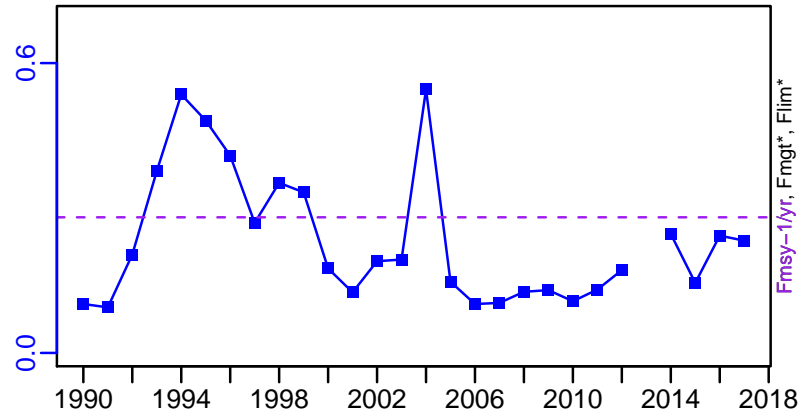
SSB-MT (1968–2018–SISIMP2021)



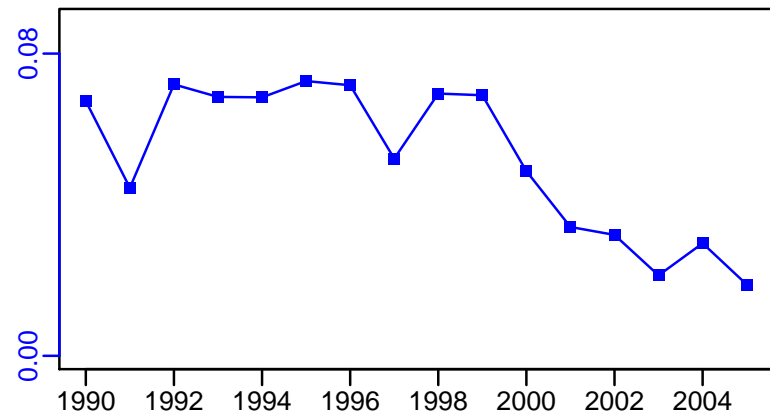
TN *



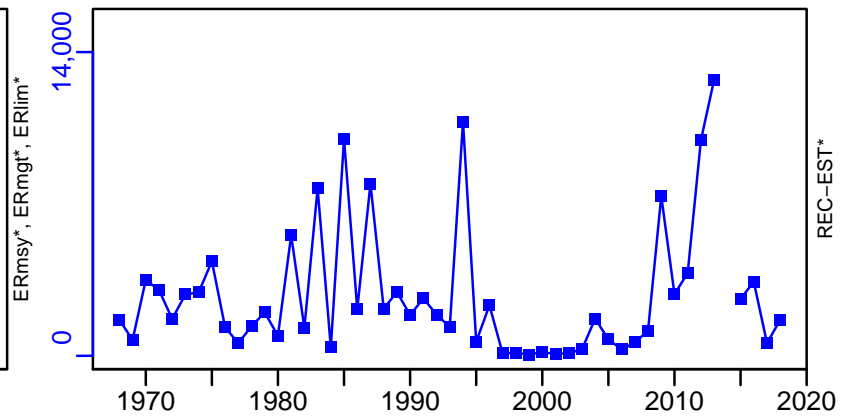
F-1/yr (1968–2018–SISIMP2021)



ER-ratio (1962–2006–SOSEBEE)



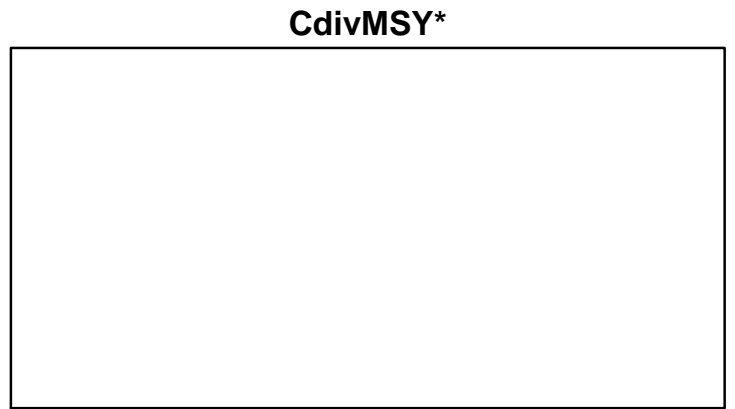
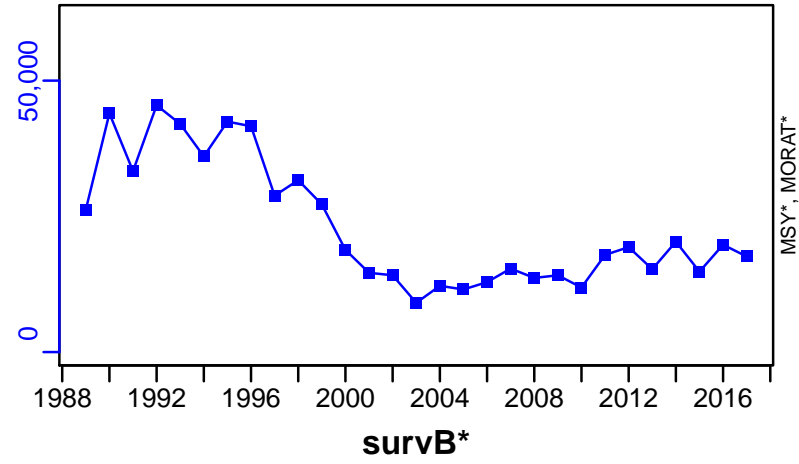
R-MT (1968–2018–SISIMP2021)



Spiny dogfish Atlantic Coast [SDOGATLC]

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

TAC*, Cpair*, Cadv*



Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

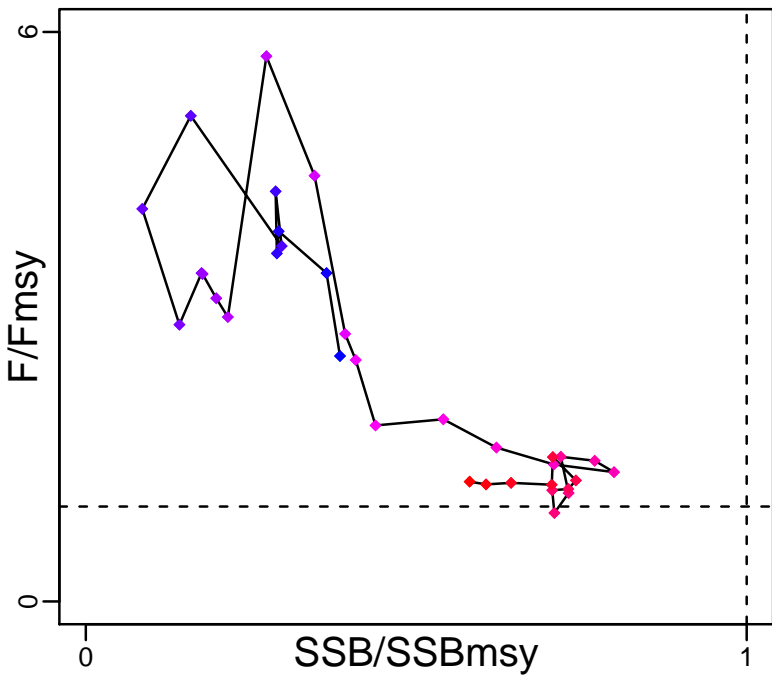
Metadata	
Scientific Name	Paralichthys dentatus
Current Assess ID	NEFSC-SFLOUNMATLC-1982-2015-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2014, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2015	62,394
Fmsy	Fmsy-1/yr	2015	0.309
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2014	12,945
M	M-1/yr	2012	0.25
TBlim	-	-	-
SSBlim	SSBlim-MT	2015	31,197
Flim	Flim-1/yr	2015	0.309
ERlim	-	-	-

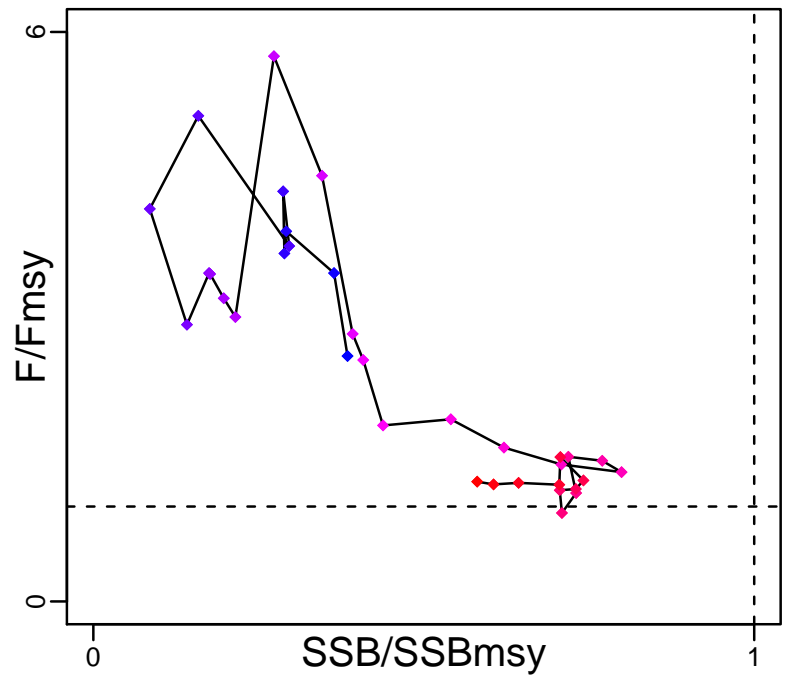
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2015	36,240	-	-
TN	TN-E00	2012	1.17×10^8	-	-
R	R-E00	2015	22,973,000	-	0
F	F-1/yr	2015	0.39	-	-
ER	-	-	-	-	-
TC	TC-MT	2015	8285		
TL	TL-MT	2012	6050		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2015	0.581		
F/Fmsy	F-1/yr/Fmsy-1/yr	2015	1.262		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

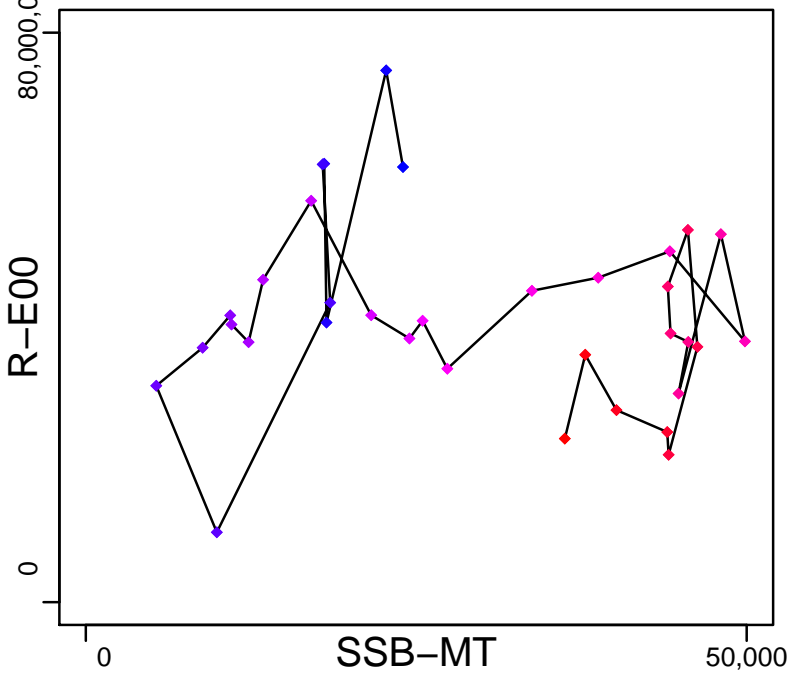
Kobe MSYpref (1982–2015–SISIMP2021)



Kobe MGTpref (1982–2015–SISIMP2021)



Spawner Recruit (1982–2015–SISIMP2021)



Production*



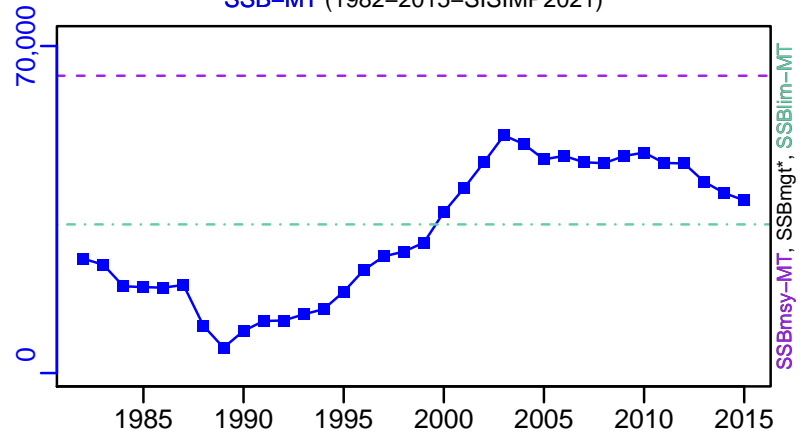
◆ Start Year ◆ End Year * No Data

Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

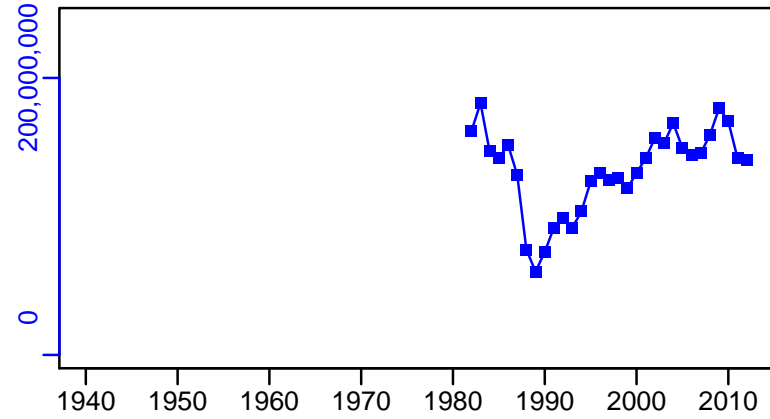
TB*



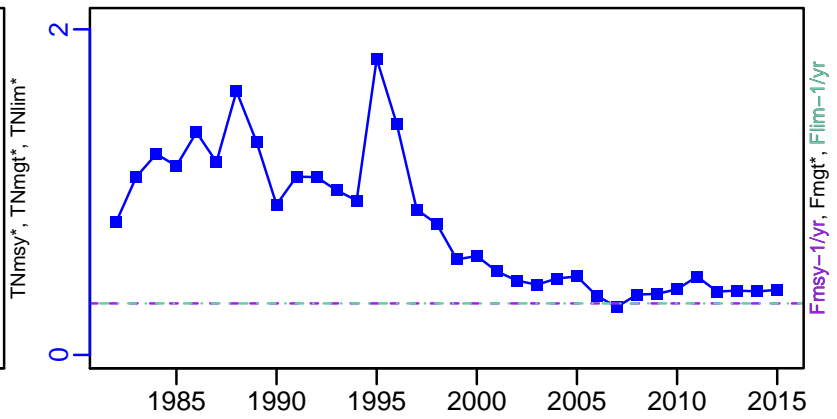
SSB-MT (1982-2015-SISIMP2021)



TN-E00 (1940-2012-HIVELY)



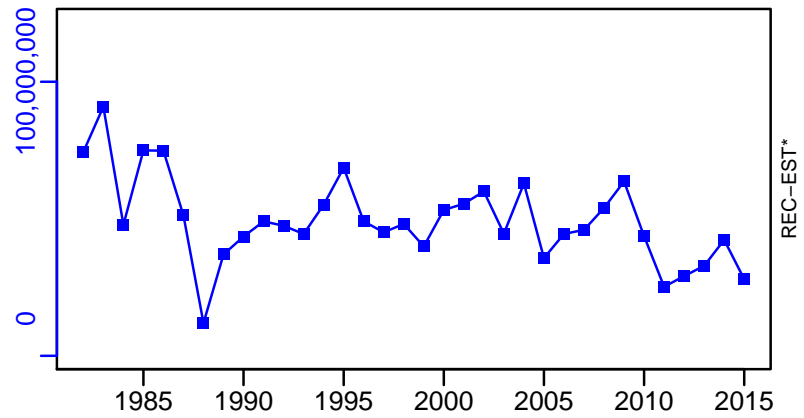
F-1/yr (1982-2015-SISIMP2021)



ER*

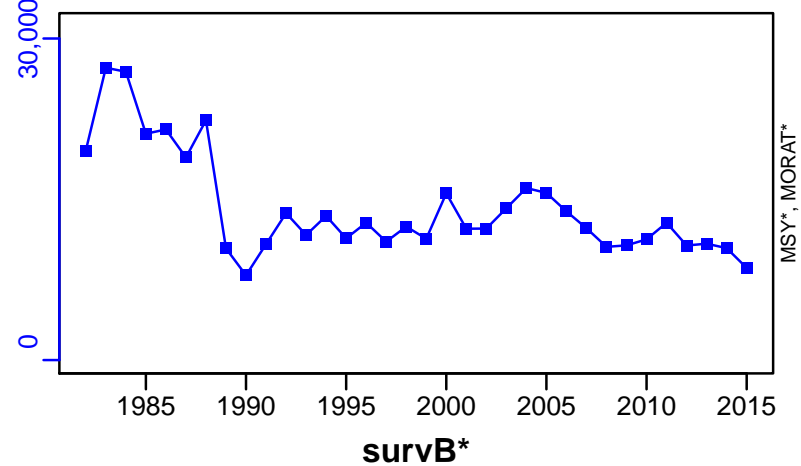


R-E00 (1982-2015-SISIMP2021)



Summer flounder Mid-Atlantic Coast [SFLOUNMATLC]

TC-MT, TL*, RecC* (1982-2015-SISIMP2021)



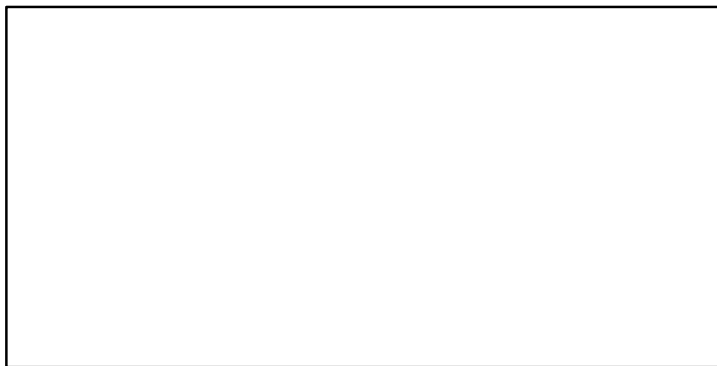
TAC*, Cpair*, Cadv*



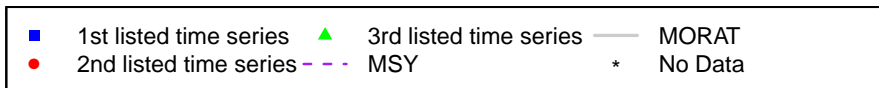
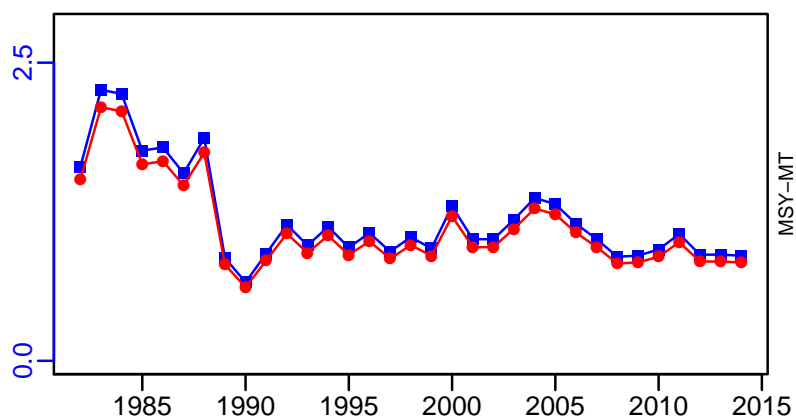
CPUE*



EFFORT*



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



Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKEGOMNGB-1963-2016-SISIMP2021
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

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	TN-E00	2009	14,300,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3380		
TL	TL-MT	2009	972		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



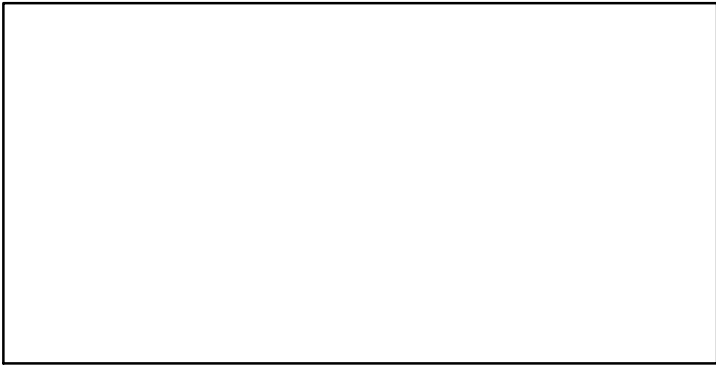
Production*



◆ Start Year ◆ End Year * No Data

Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

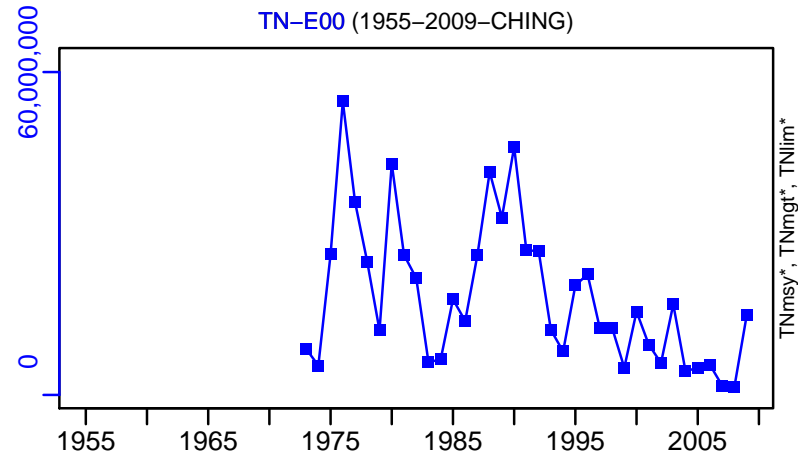
TB*



SSB*



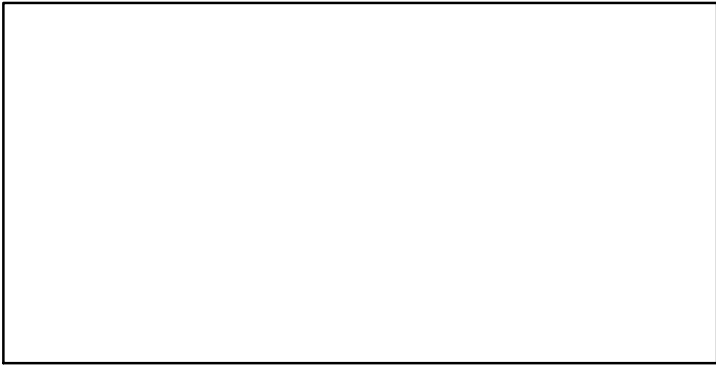
TN-E00 (1955–2009–CHING)



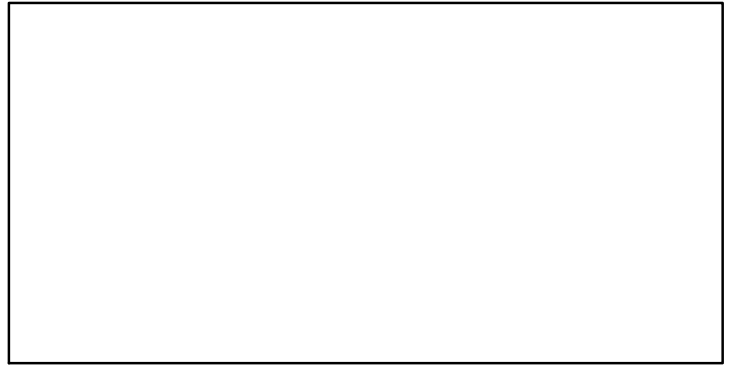
F*



ER*



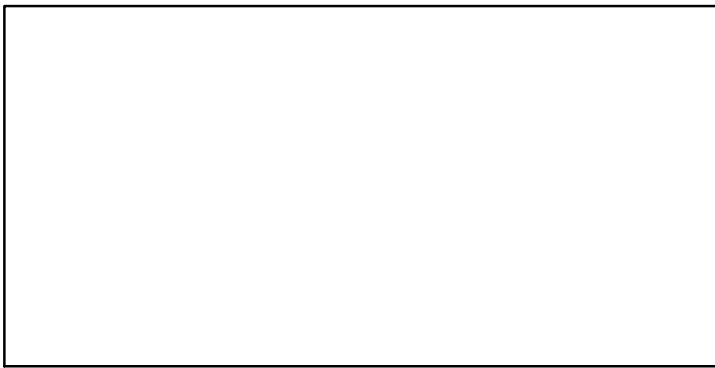
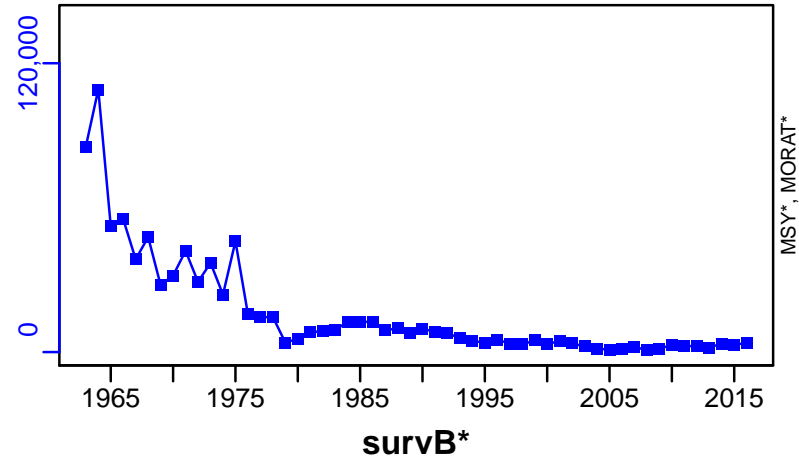
Recruits*



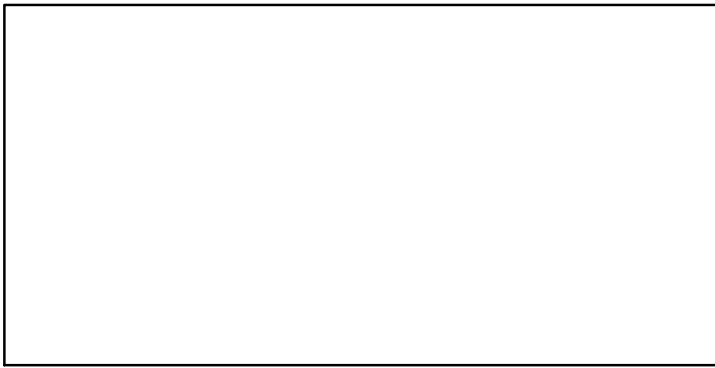
Silver hake Gulf of Maine / Georges Bank [SHAKEGOMNGB]

TC-MT, TL*, RecC* (1963-2016-SISIMP2021)

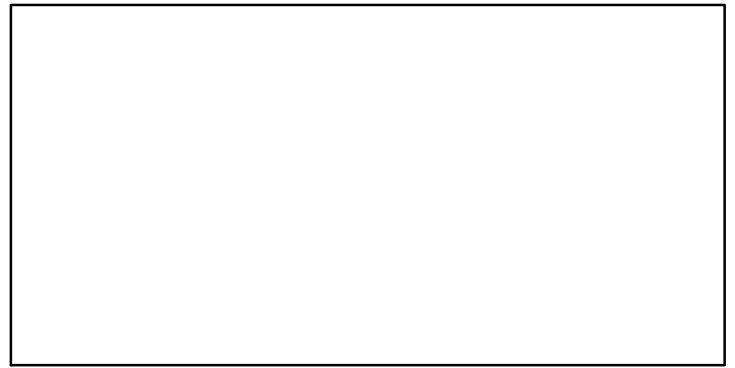
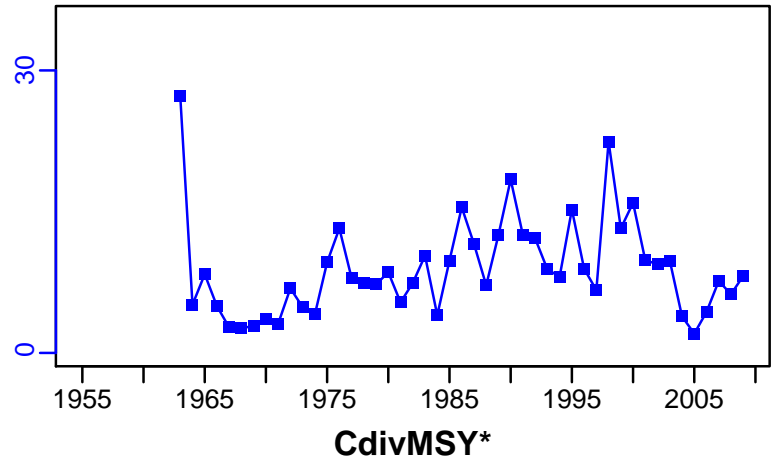
TAC*, Cpair*, Cadv*



EFFORT*



CPUE-kgpertow (1955-2009-CHING)



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

Metadata	
Scientific Name	Merluccius bilinearis
Current Assess ID	NEFSC-SHAKESGBMATL-1963-2016-SISIMP2021
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

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	TN-E00	2009	1,690,000	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	3830		
TL	TL-MT	2009	6640		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY*



Kobe MGT*



Spawner Recruit*



Production*



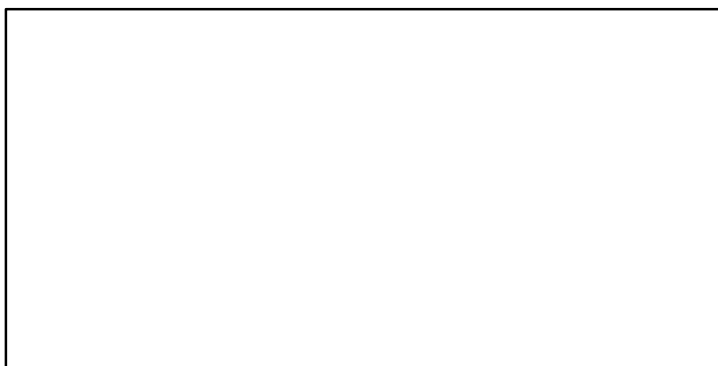
◆ Start Year ◆ End Year * No Data

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

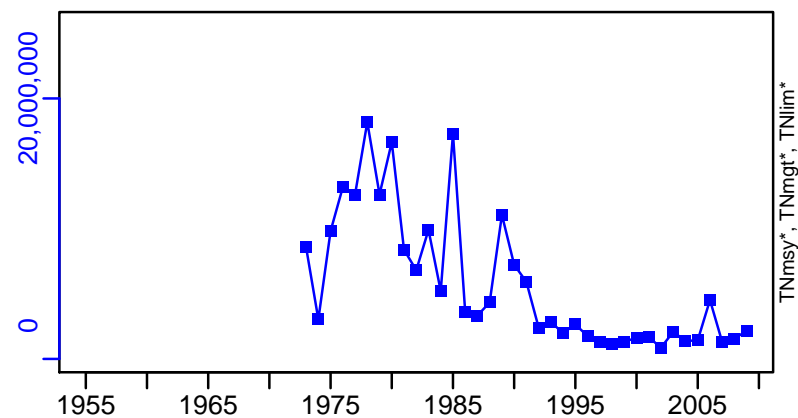
TB*



SSB*



TN-E00 (1955–2009–CHING)



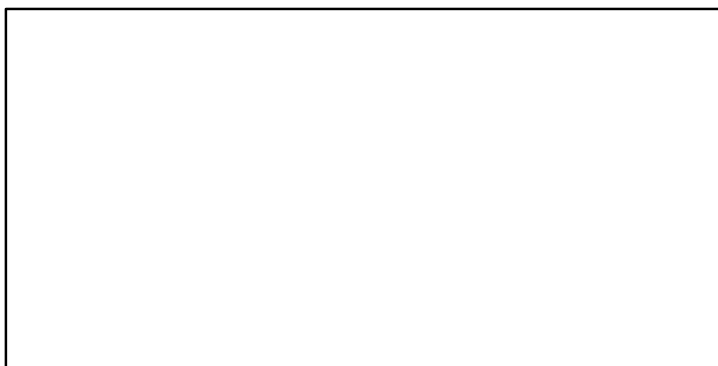
F*



ER*



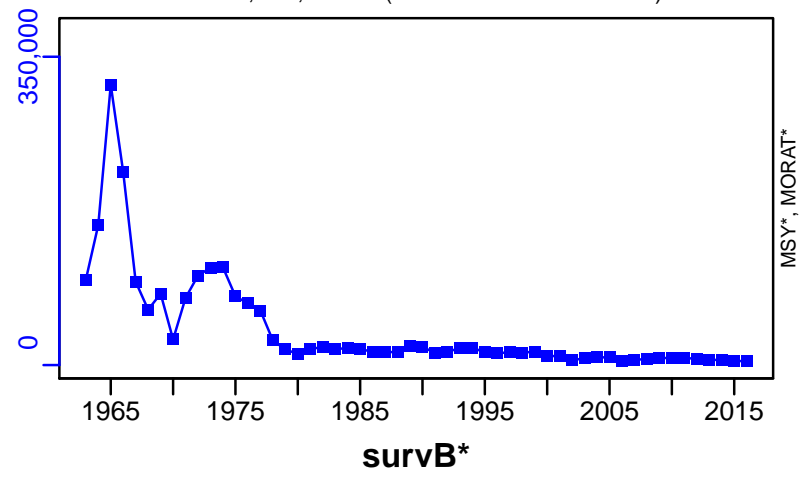
Recruits*



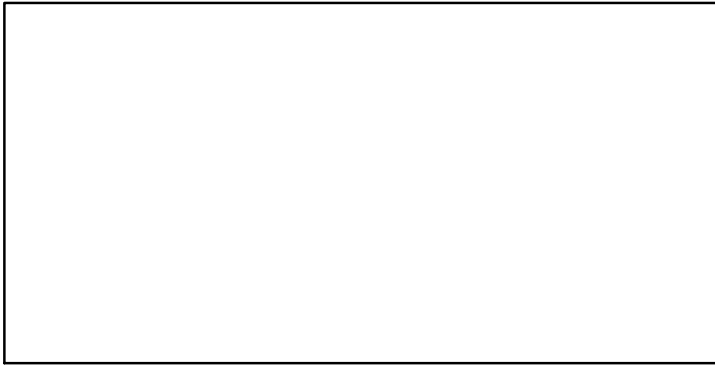
Silver hake Southern Georges Bank / Mid-Atlantic [SHAKESGBMATL]

TC-MT, TL*, RecC* (1963–2016–SISIMP2021)

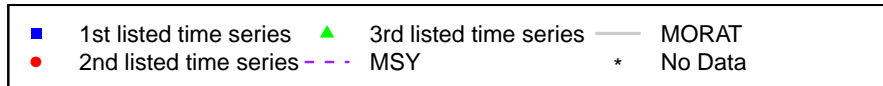
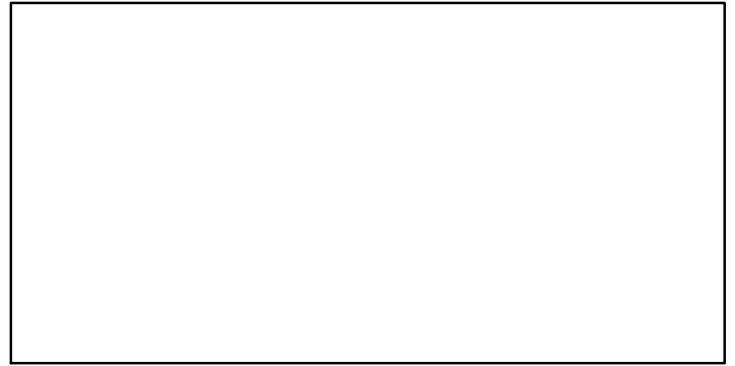
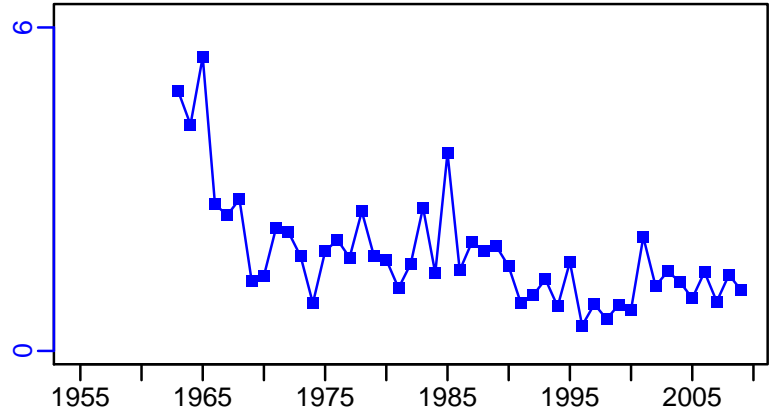
TAC*, Cpair*, Cadv*



EFFORT*



CPUE-kgpertow (1955–2009–CHING)

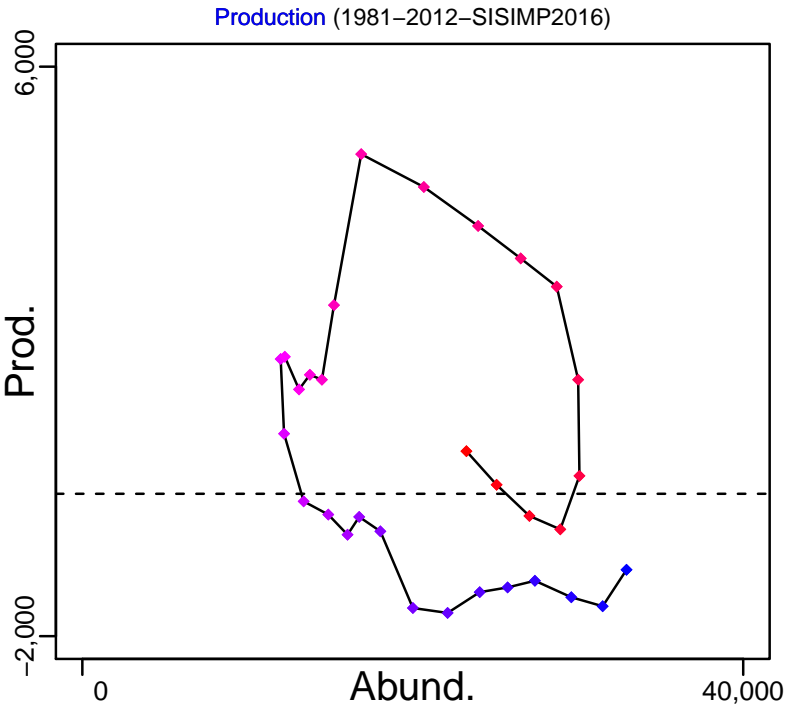
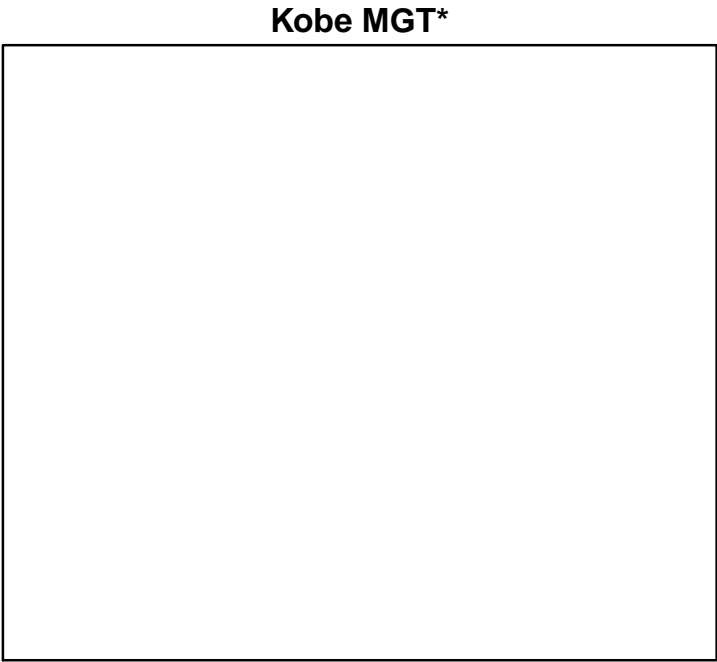


Smooth dogfish Atlantic [SMDOGATL]

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

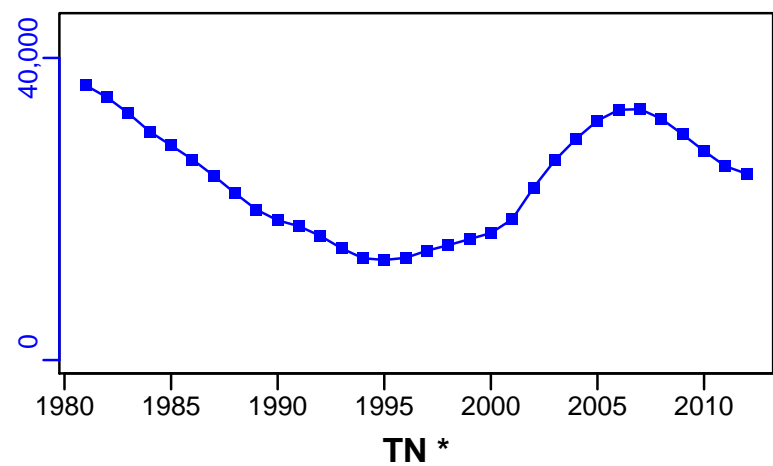
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2012	22,340	-	-
SSB	SSB-E00pups	2012	10,800,000	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2012	0.102	-	-
TC	TC-MT	2012	1451		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2012	0.791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



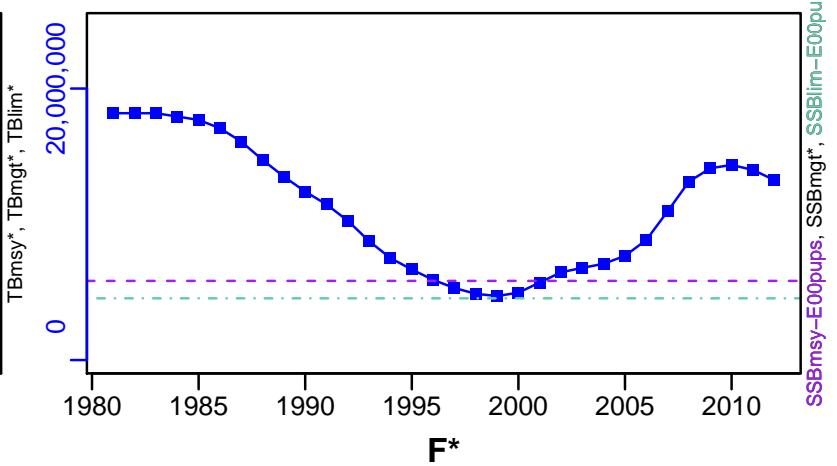
◆ Start Year ◆ End Year * No Data

Smooth dogfish Atlantic [SMDOGATL]

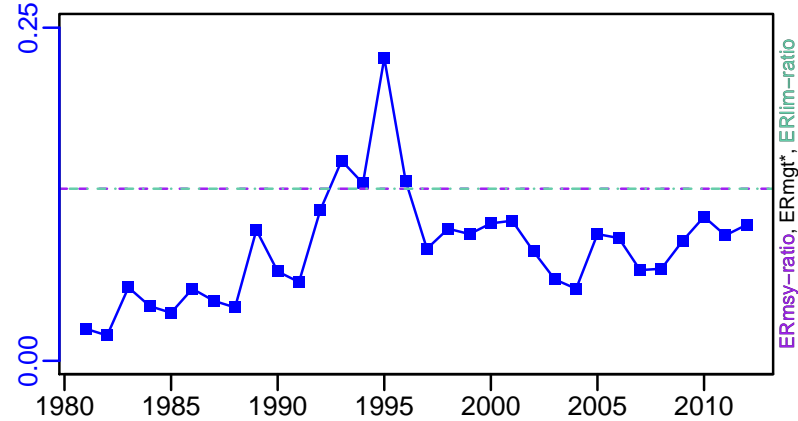
TB-MT (1981–2012–SISIMP2016)



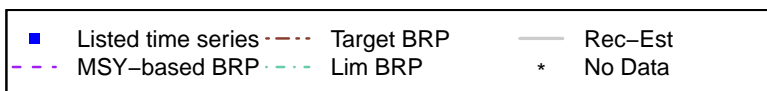
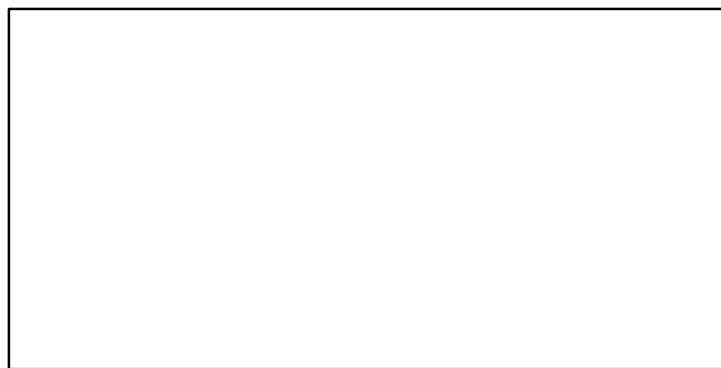
SSB-E00pups (1981–2012–SISIMP2016)



ER-ratio (1981–2012–SISIMP2016)



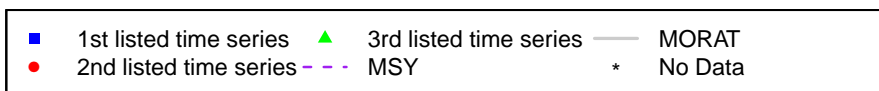
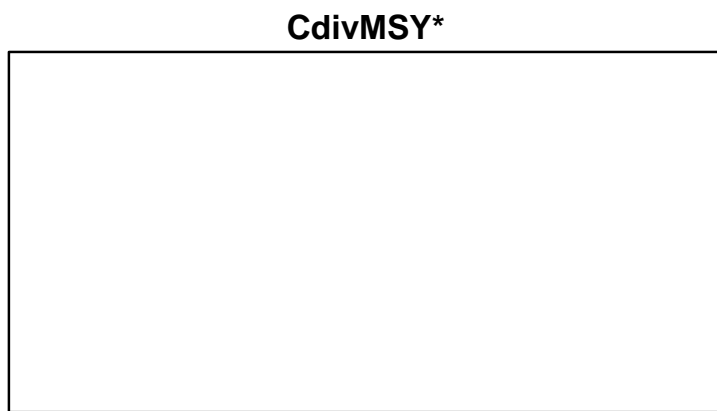
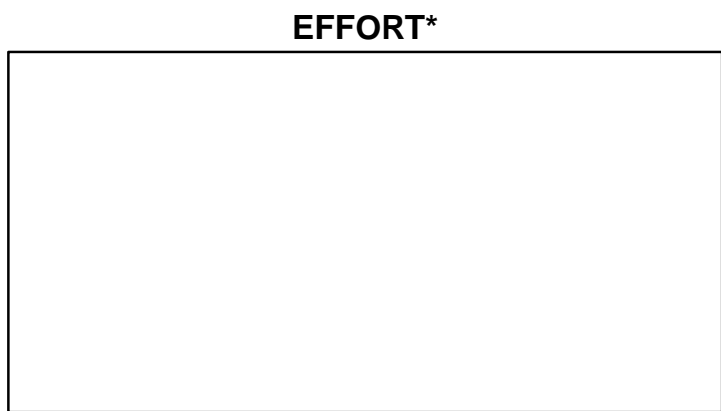
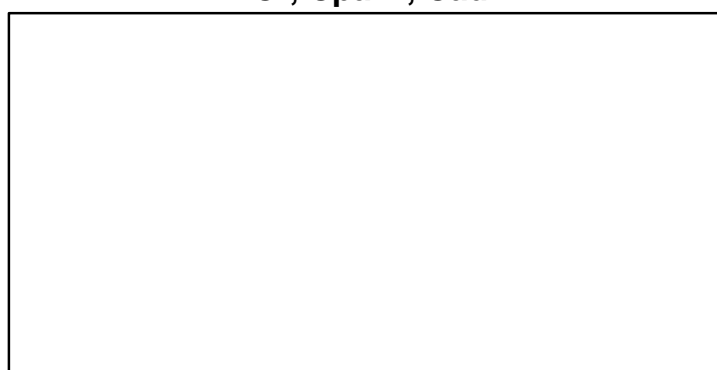
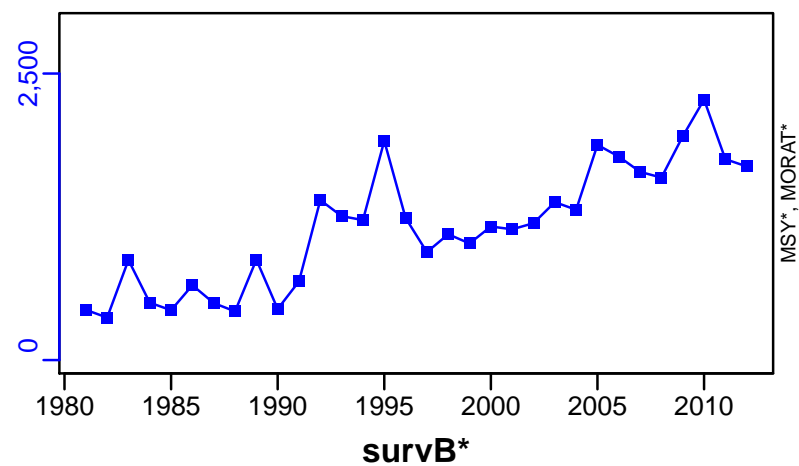
Recruits*



Smooth dogfish Atlantic [SMDOGATL]

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

TAC*, Cpair*, Cadv*



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

Metadata	
Scientific Name	Malacoraja senta
Current Assess ID	NEFSC-SSKAT5YZSNE-1963-2005-SOSEBEE
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

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	1.6		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

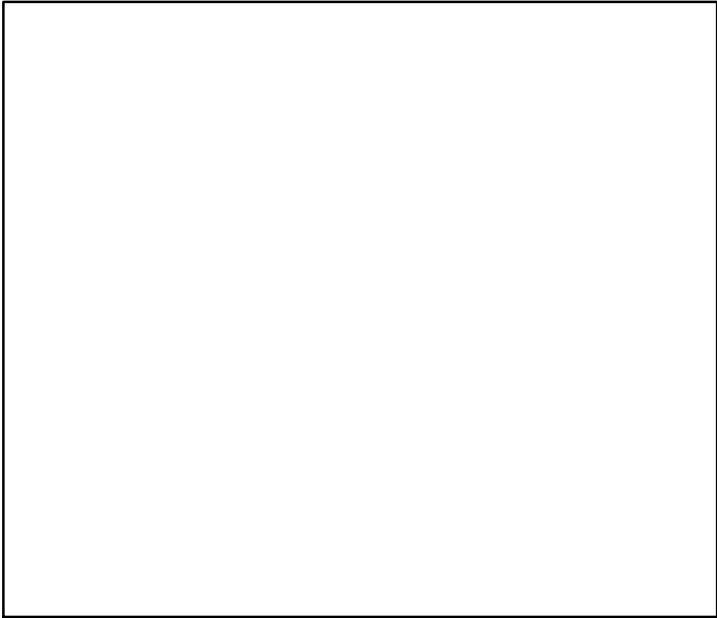
Kobe MSY*



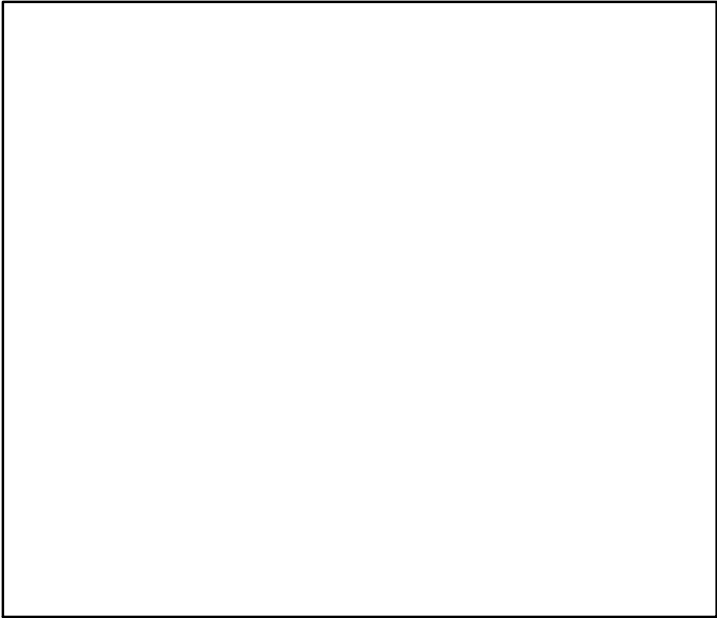
Kobe MGT*



Spawner Recruit*



Production*



◆ Start Year ◆ End Year * No Data

TB*



SSB*



TN *



F*



ER*



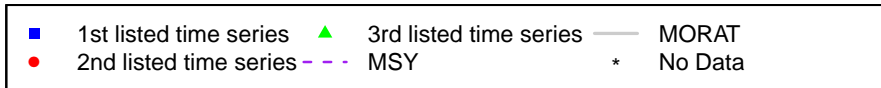
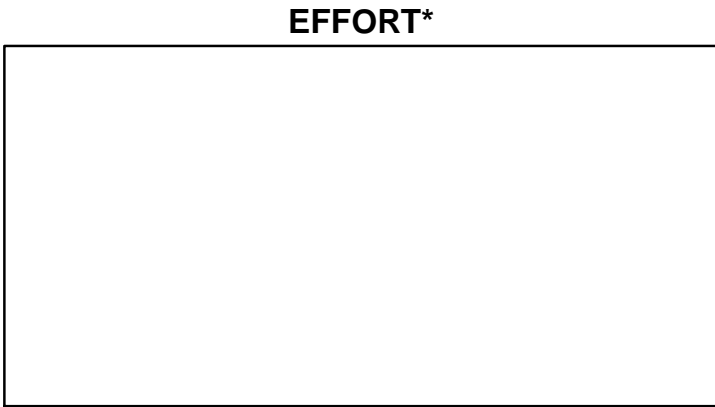
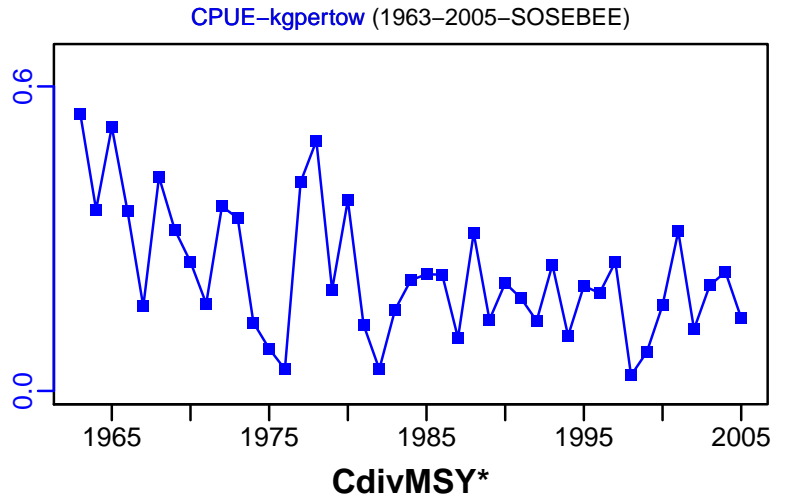
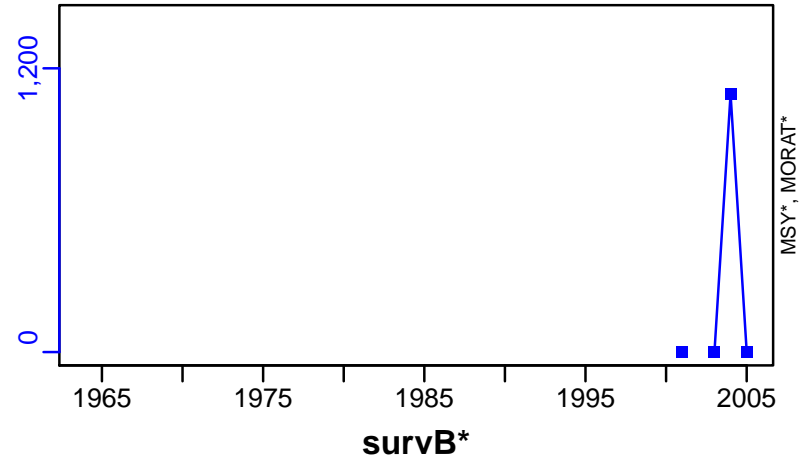
Recruits*



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

TC–MT, TL*, RecC* (1963–2005–SOSEBEE)

TAC*, Cpair*, Cadv*



Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

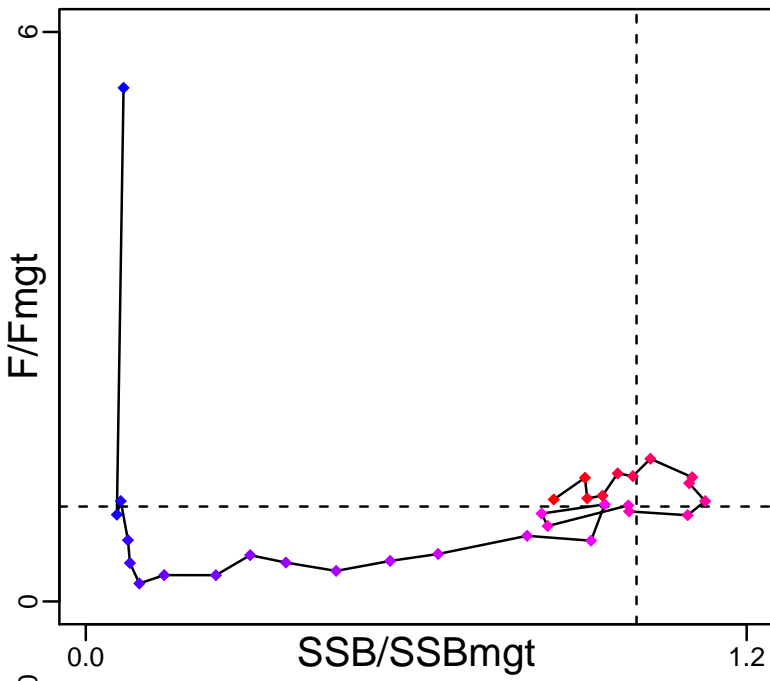
Metadata	
Scientific Name	Morone saxatilis
Current Assess ID	NEFSC-STRIPEDBASSGOMCHATT-1981-2012-HIVELY
Area	Gulf of Maine / Cape Hatteras
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012

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	-	-	-

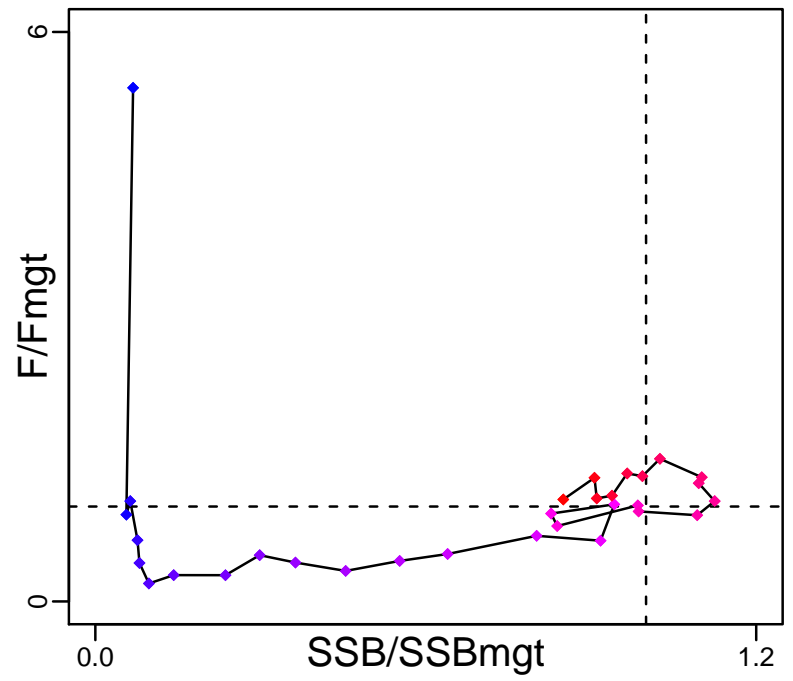
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2012	61,500	Females	4+
TN	TN-E00	2012	2.15×10^8	-	-
R	R-E00	2012	1.44×10^8	-	1
F	F-1/yr	2012	0.188	-	-
ER	ER-calc-ratio	2012	0.017	-	-
TC	TC-E00	2012	3,600,000		
TL	TL-MT	2012	3080		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy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

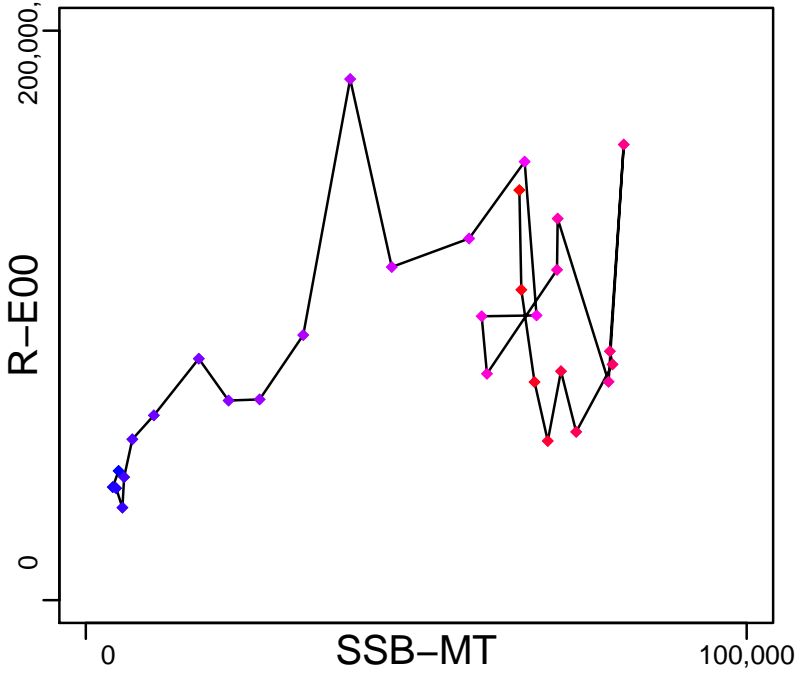
Kobe MSYpref (1981–2012–HIVELY)



Kobe MGTpref (1981–2012–HIVELY)



Spawner Recruit (1981–2012–HIVELY)



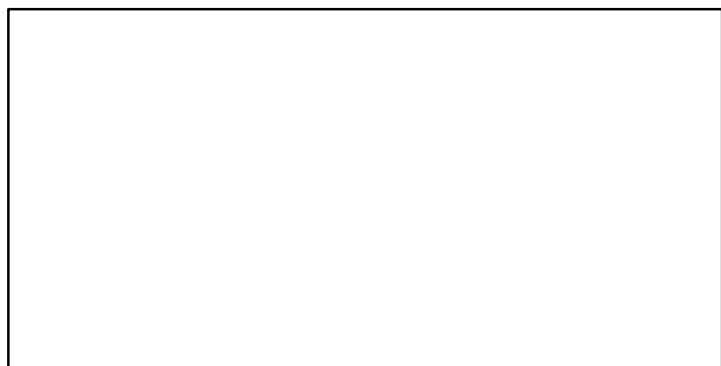
Production*



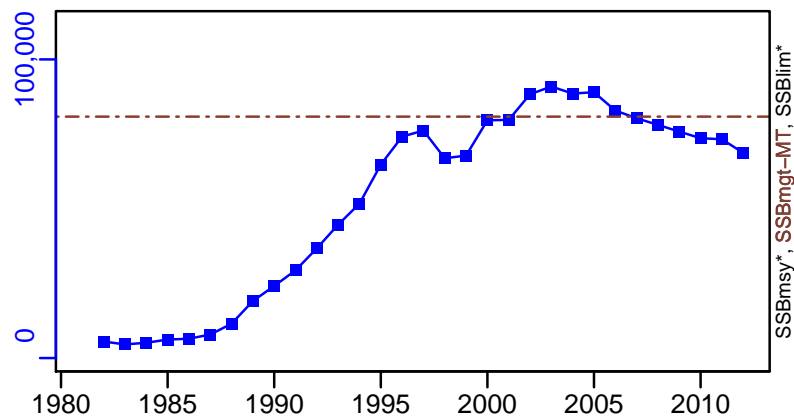
◆ Start Year ◆ End Year * No Data

Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

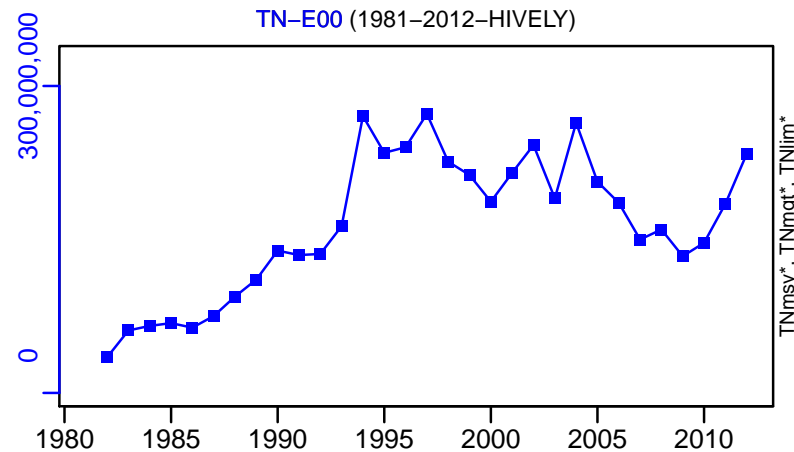
TB*



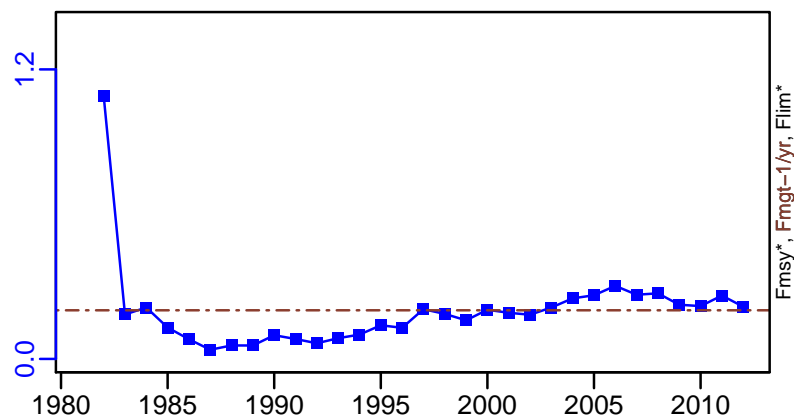
SSB-MT (1981-2012-HIVELY)



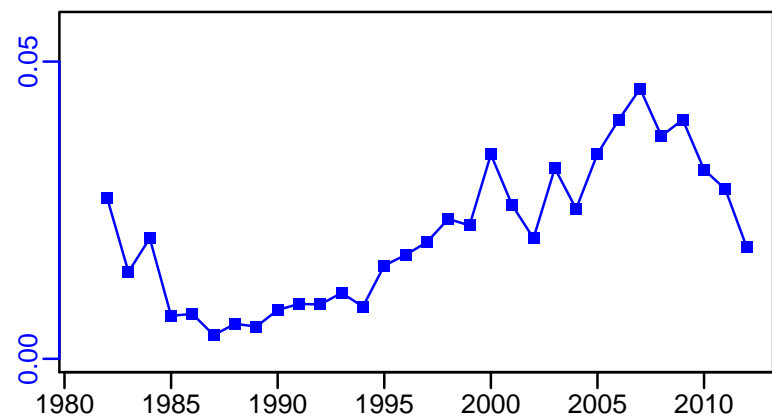
TN-E00 (1981-2012-HIVELY)



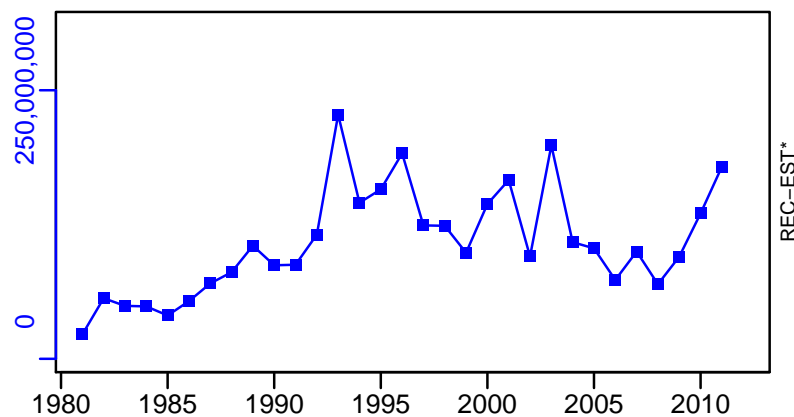
F-1/yr (1981-2012-HIVELY)



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



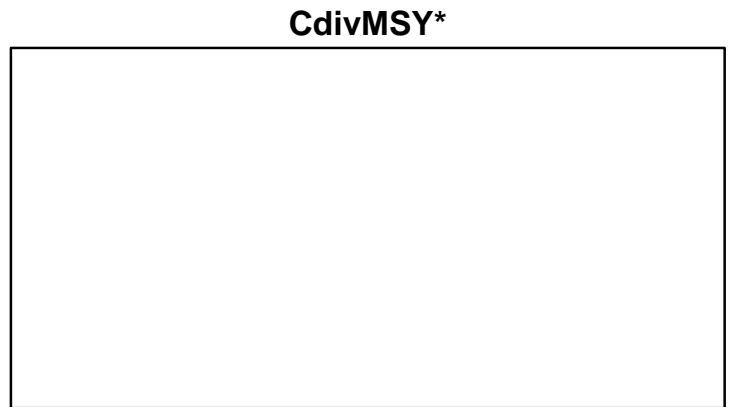
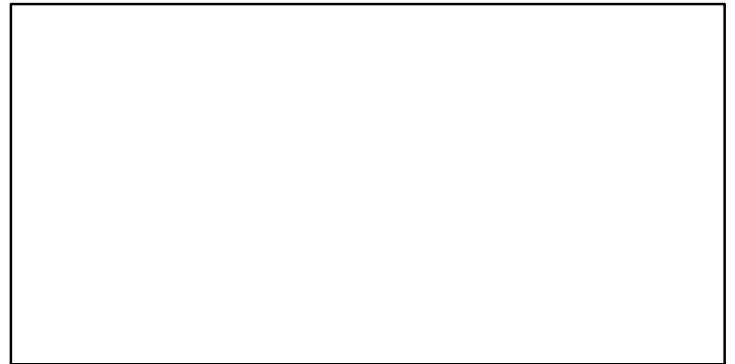
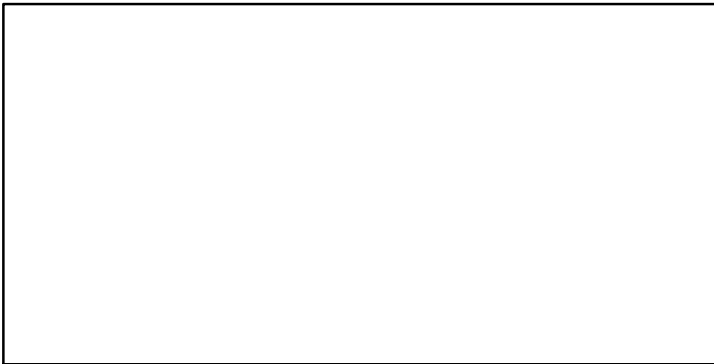
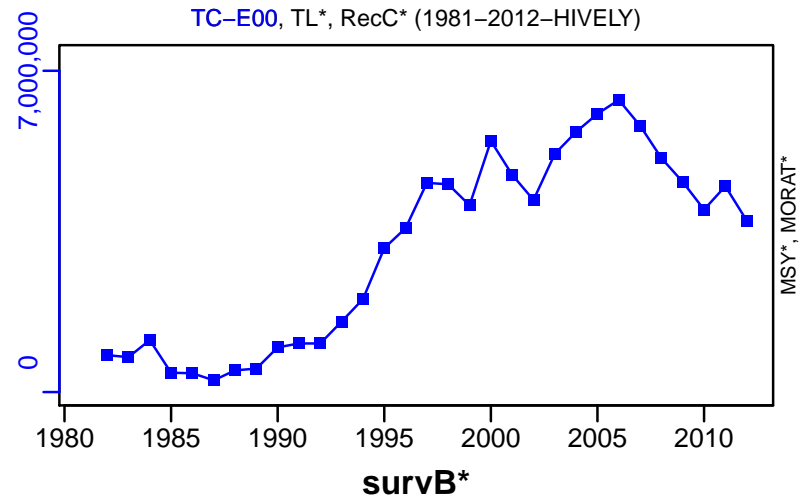
R-E00 (1981-2012-HIVELY)



Striped bass Gulf of Maine / Cape Hatteras [STRIPEDBASSGOMCHATT]

TC-E00, TL*, RecC* (1981–2012–HIVELY)

TAC*, Cpair*, Cadv*



Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

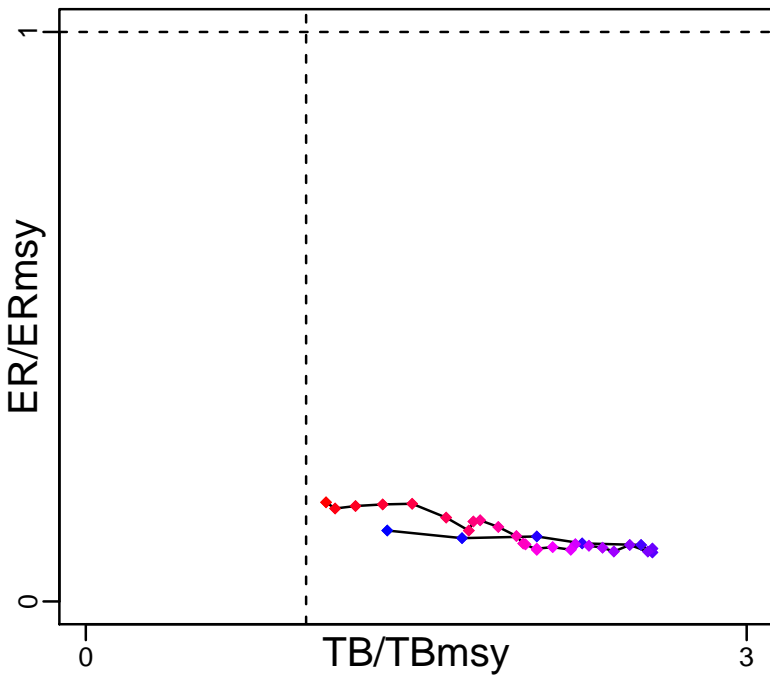
Metadata	
Scientific Name	Spisula solidissima
Current Assess ID	NEFSC-SURFMATLC-1965-2015-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2015, 2011

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	-	-	-

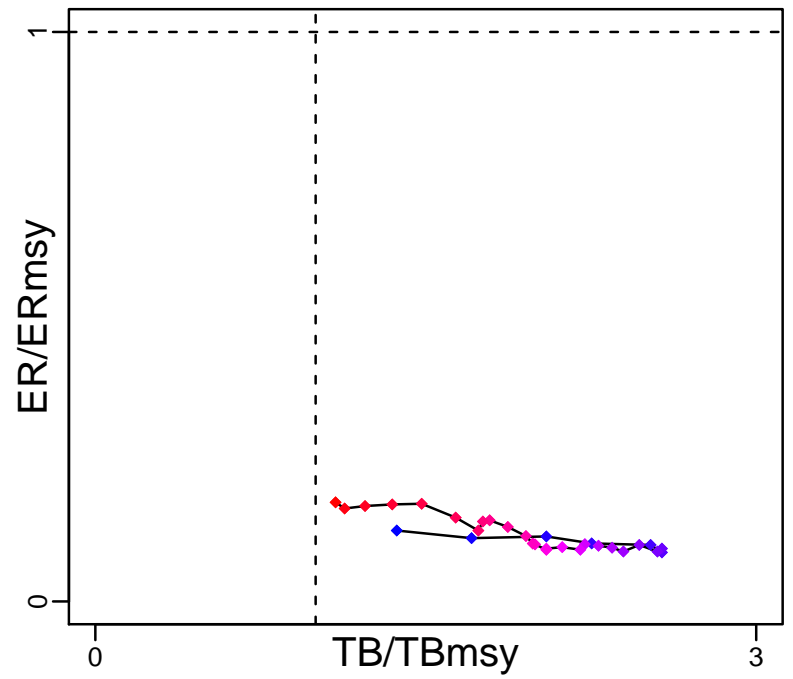
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	1,060,000	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-MT	2011	2,090,000	-	-
F	F-1/yr	2011	0.027	-	-
ER	ER-calc-ratio	2011	0.018	-	-
TC	TC-MT	2015	18,284		
TL	TL-MT	2008	22,500		
TB/TBmsy	TB-MT/TBmsy-MT	2011	1.091		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr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

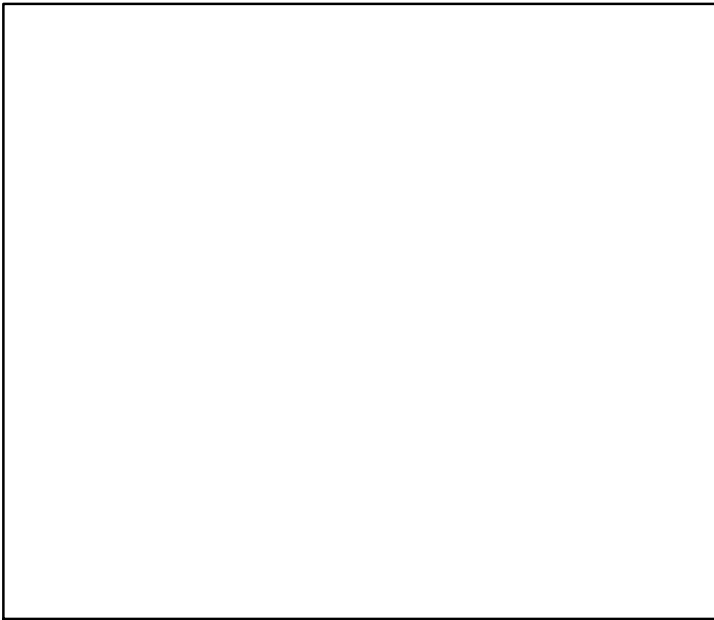
Kobe MSY_{pref} (1982–2011–SISIMP2016)



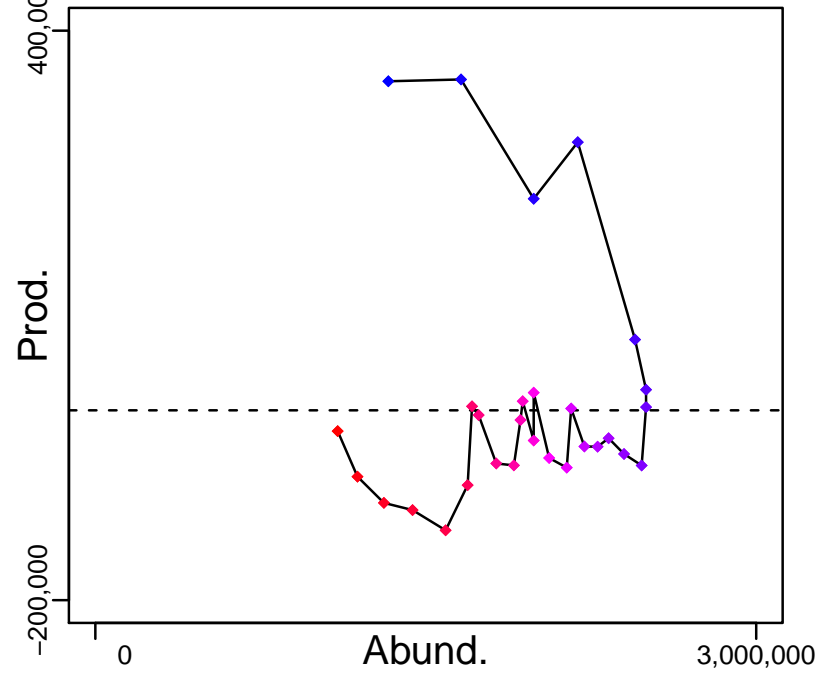
Kobe MGT_{pref} (1982–2011–SISIMP2016)



Spawner Recruit*



Production (1982–2011–SISIMP2016)

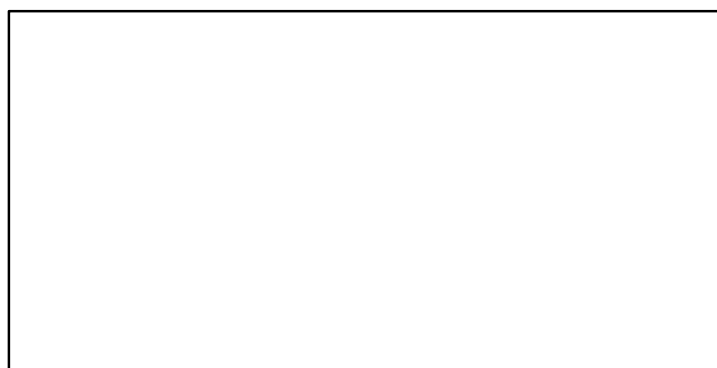
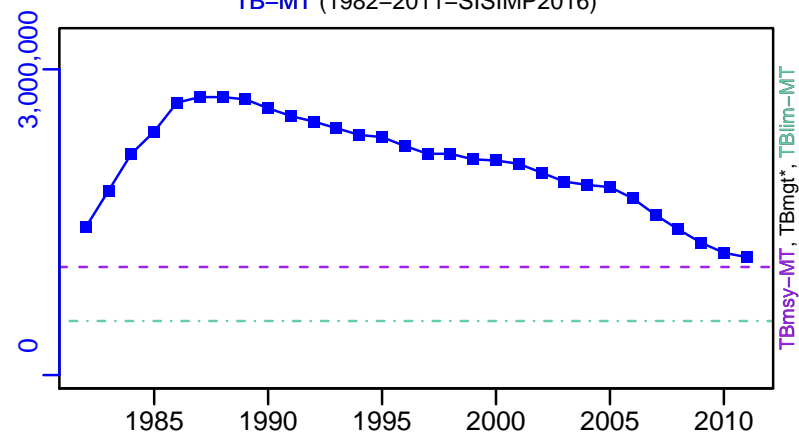


◆ Start Year ◆ End Year * No Data

Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

TB-MT (1982-2011-SISIMP2016)

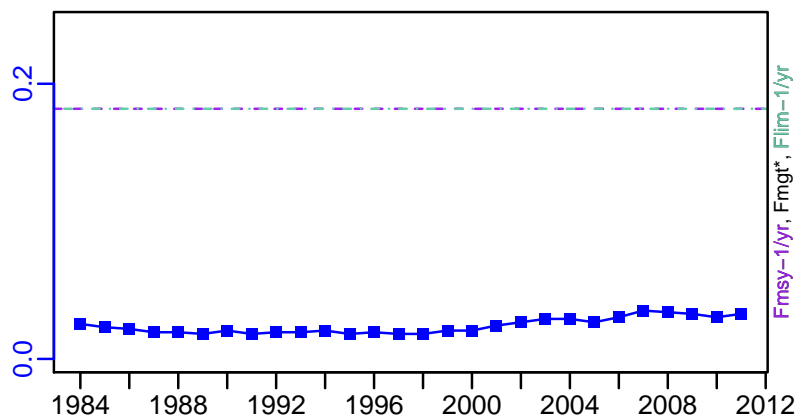
SSB*



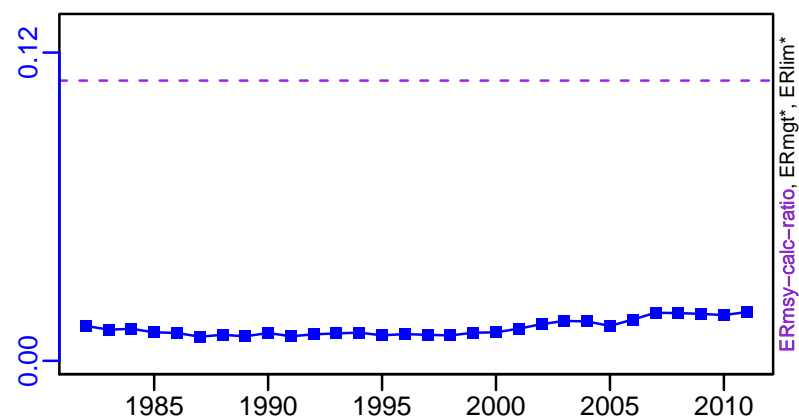
TN *



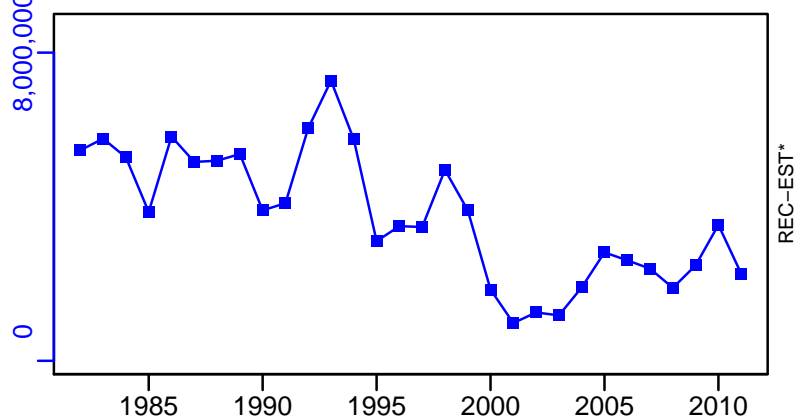
F-1/yr (1982-2011-SISIMP2016)



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

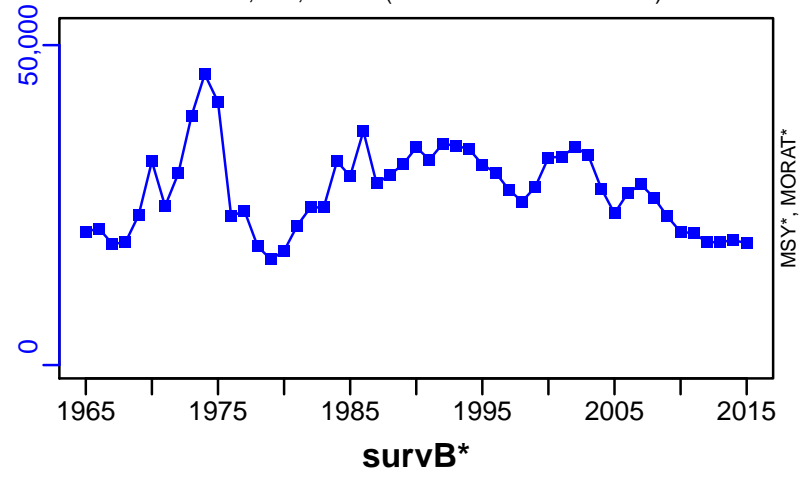


R-MT (1982-2011-SISIMP2016)



Atlantic surfclam Mid-Atlantic Coast [SURFMATLC]

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



TAC*, Cpair*, Cadv*



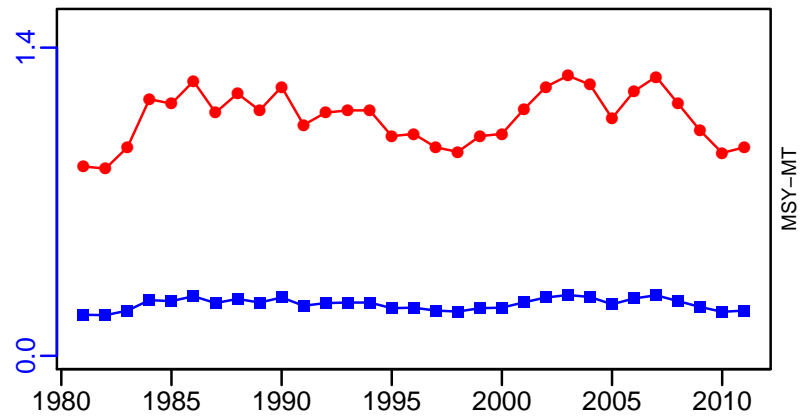
CPUE*



EFFORT*



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



Tilefish Mid-Atlantic Coast [TILEMATLC]

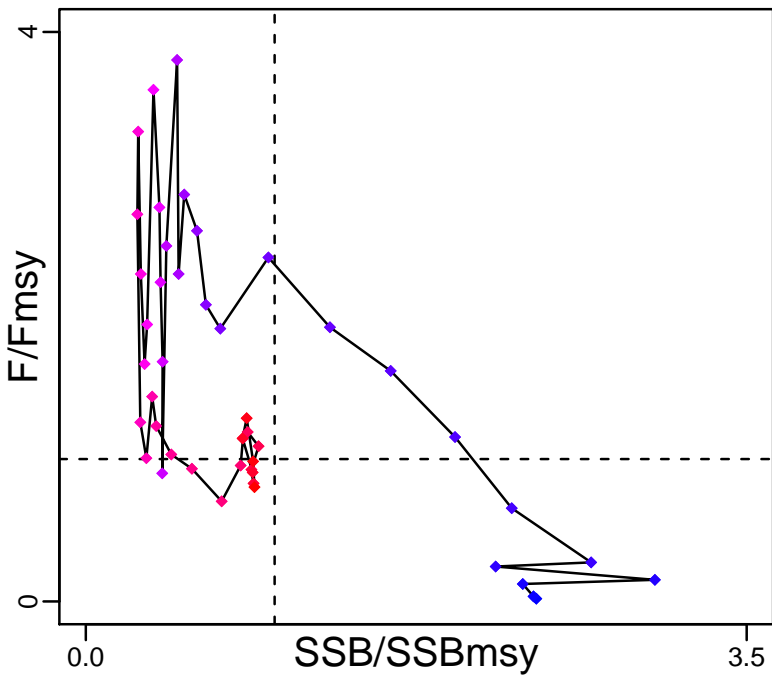
Metadata	
Scientific Name	Lopholatilus chamaeleonticeps
Current Assess ID	NEFSC-TILEMATLC-1970-2016-SISIMP2021
Area	Mid-Atlantic Coast
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2012, 2016

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	-	-	-

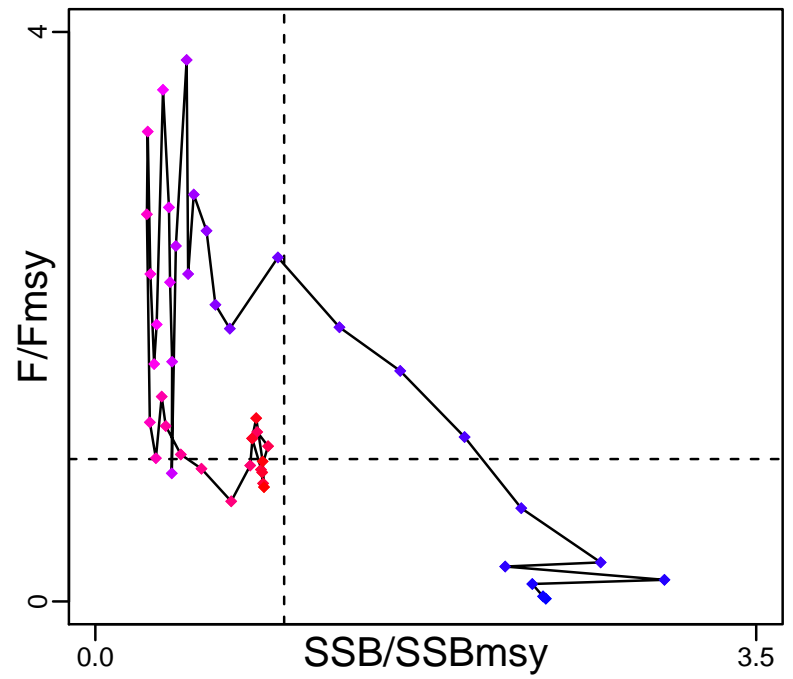
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	8479	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,184,000	-	1
F	F-1/yr	2016	0.249	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	502		
TL	TL-MT	2012	834		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.893		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.803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

Tilefish Mid-Atlantic Coast [TILEMATLC]

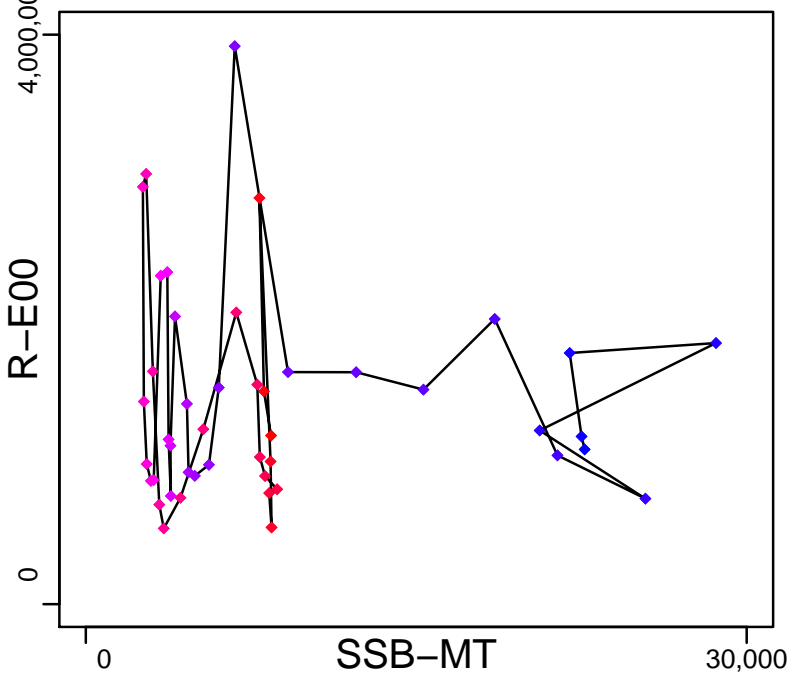
Kobe MSYpref (1970–2016–SISIMP2021)



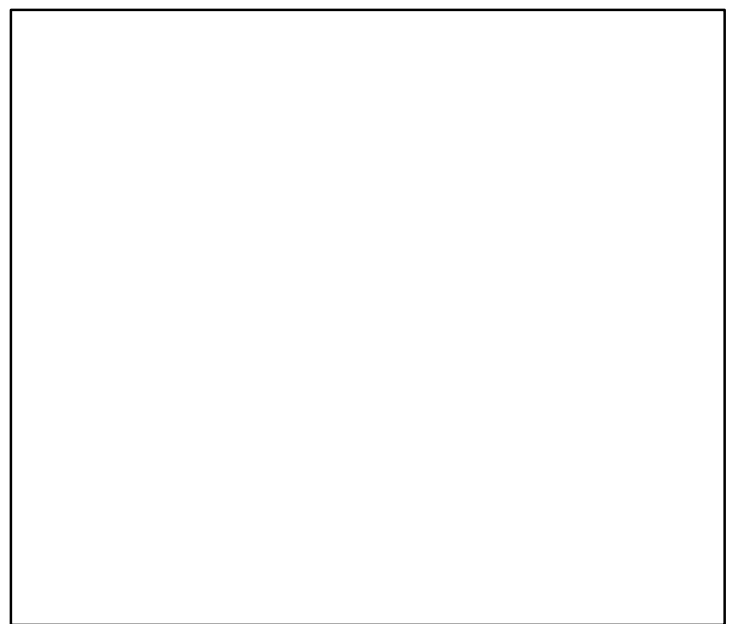
Kobe MGTpref (1970–2016–SISIMP2021)



Spawner Recruit (1970–2016–SISIMP2021)



Production*



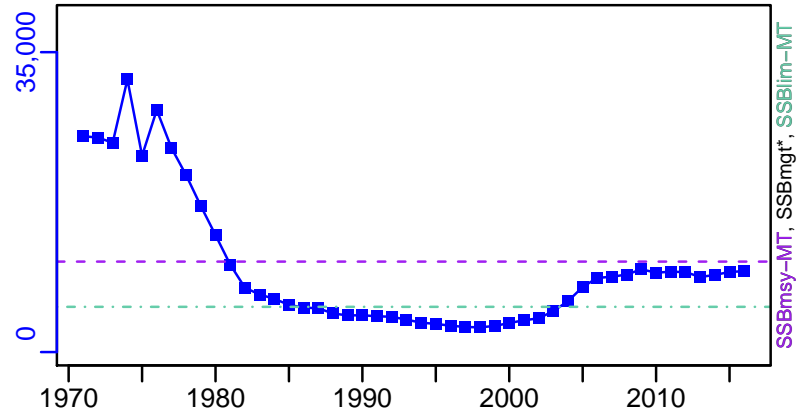
◆ Start Year ◆ End Year * No Data

Tilefish Mid-Atlantic Coast [TILEMATLC]

TB*



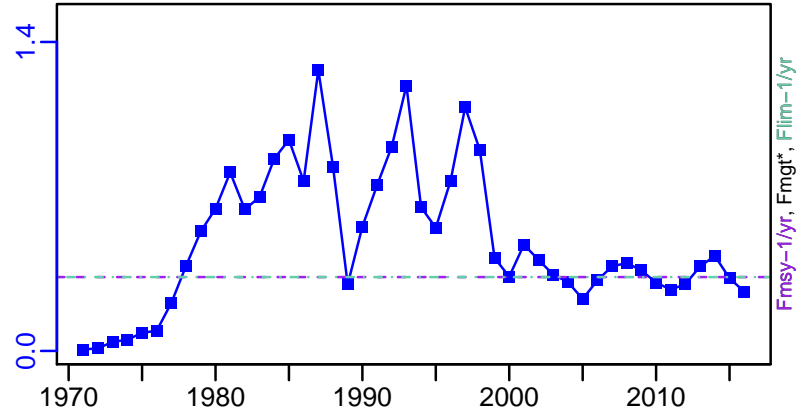
SSB-MT (1970-2016-SISIMP2021)



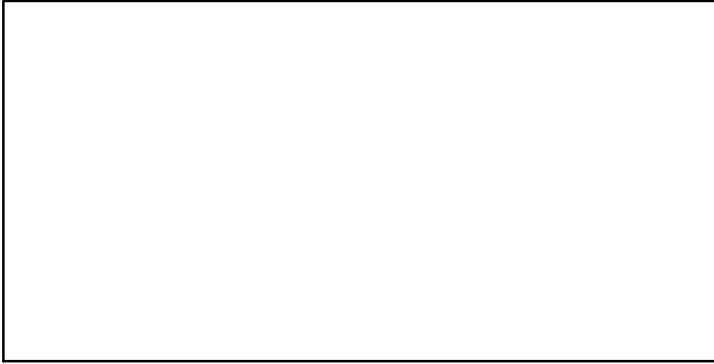
TN *



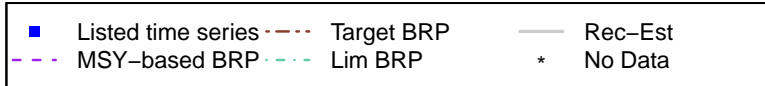
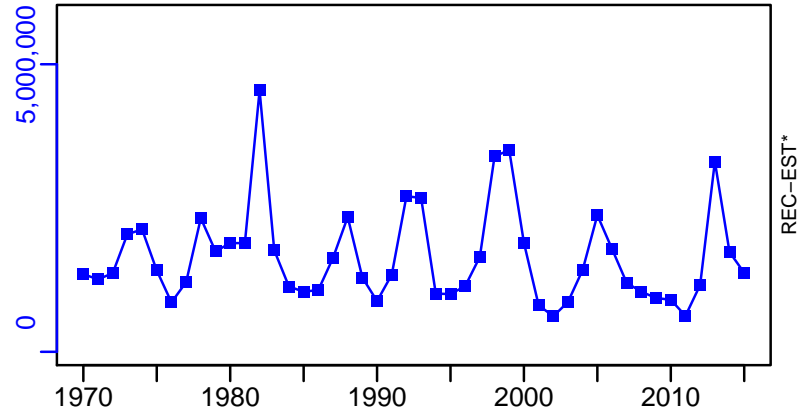
F-1/yr (1970-2016-SISIMP2021)



ER*

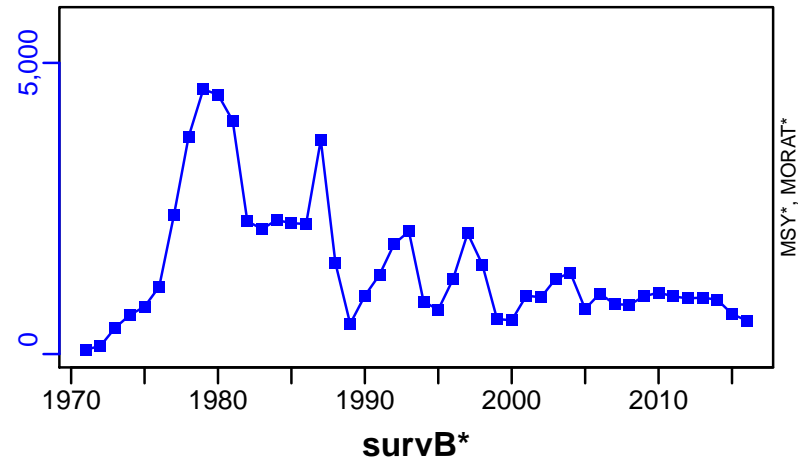


R-E00 (1970-2016-SISIMP2021)



Tilefish Mid-Atlantic Coast [TILEMATLC]

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



TAC*, Cpair*, Cadv*



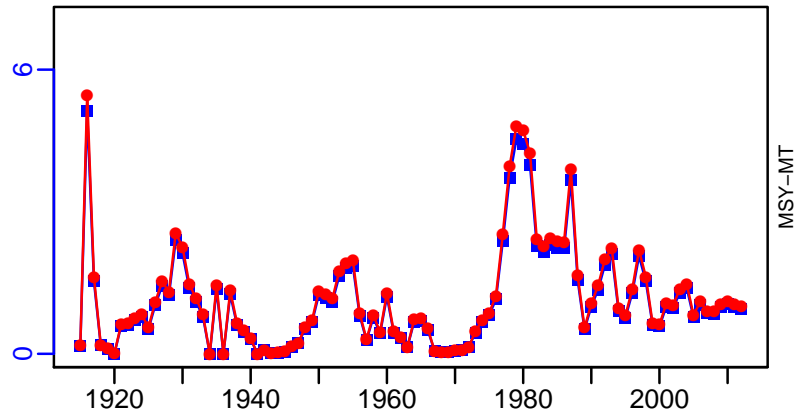
CPUE*



EFFORT*



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



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

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

Metadata	
Scientific Name	Amblyraja radiata
Current Assess ID	NEFSC-TSKAT5YZSNE-1963-2005-SOSEBEE
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

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	128		
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*



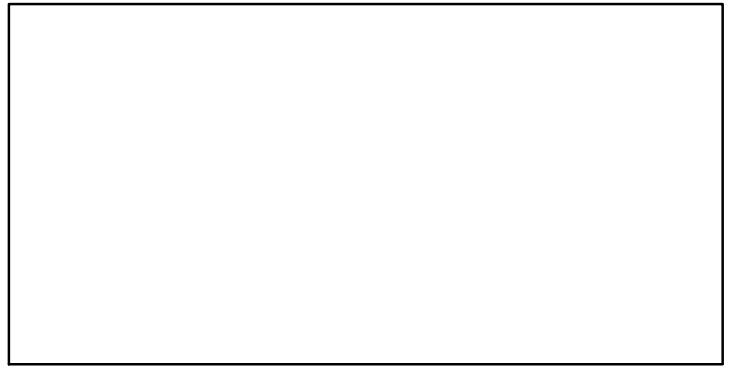
SSB*



TN *



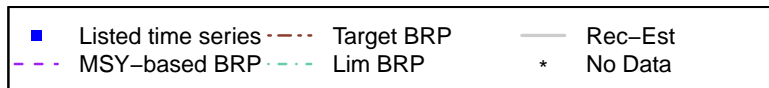
F*



ER*



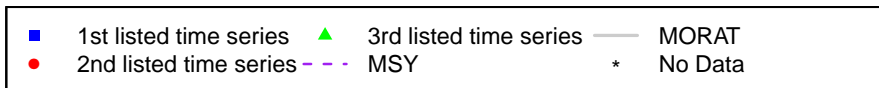
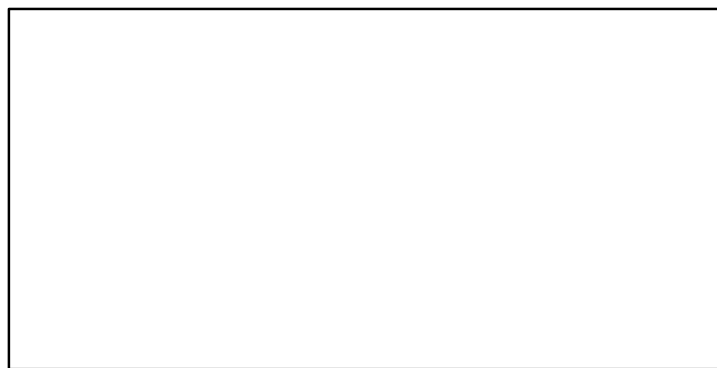
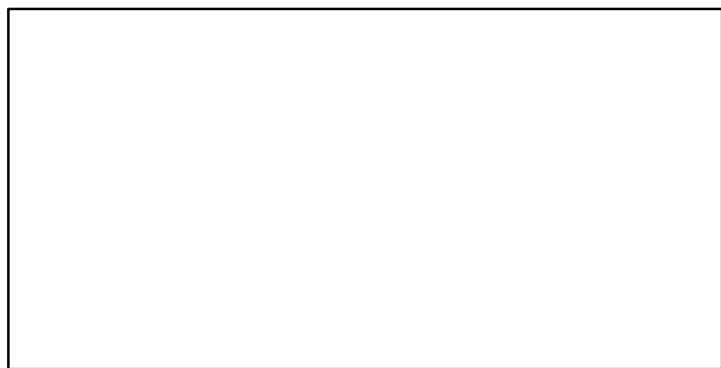
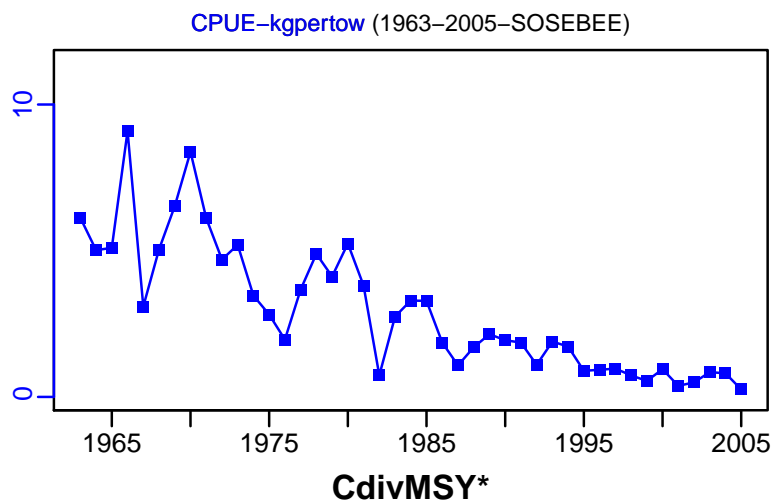
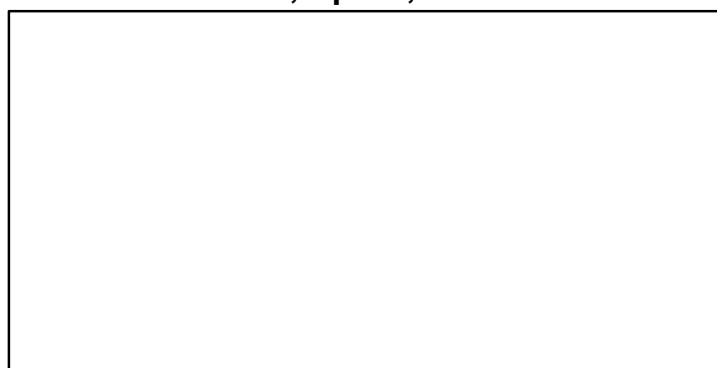
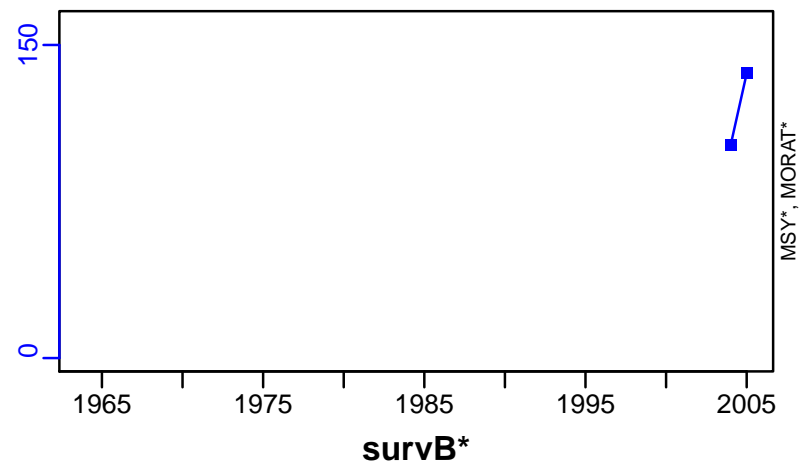
Recruits*



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

TC–MT, TL*, RecC* (1963–2005–SOSEBEE)

TAC*, Cpair*, Cadv*



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*



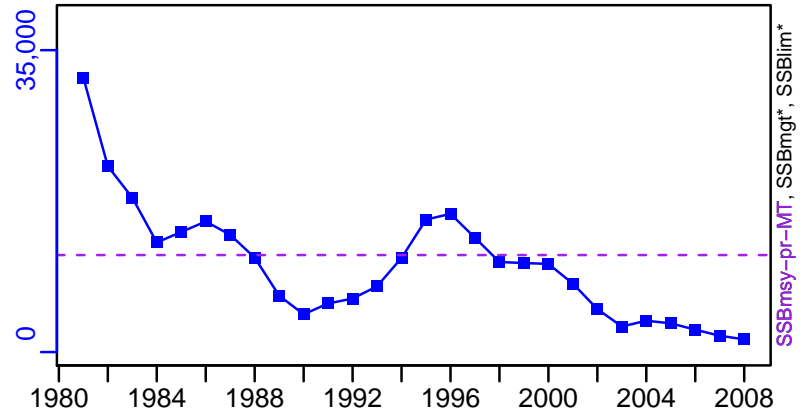
◆ Start Year ◆ End Year * No Data

Weakfish Atlantic Coast [WEAKFISHATLC]

TB*



SSB-MT (1981-2008-STANTON)



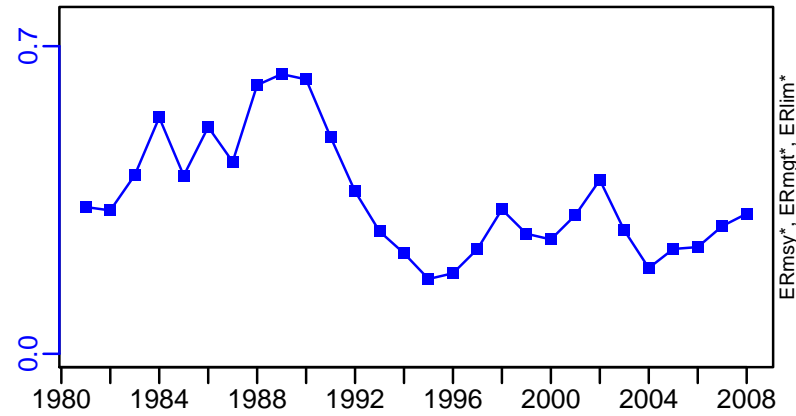
TN *



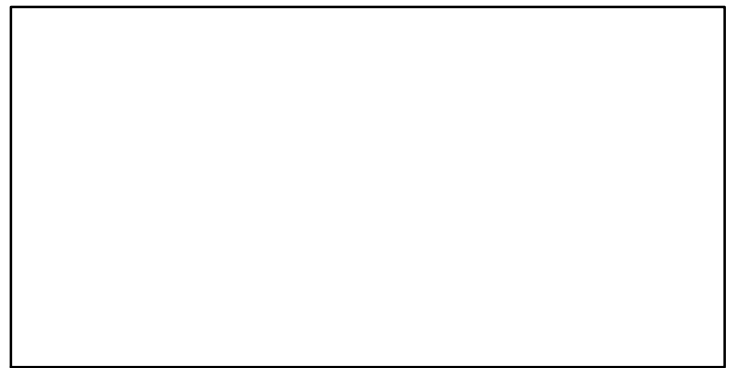
F*



ER-ratio (1981-2008-STANTON)



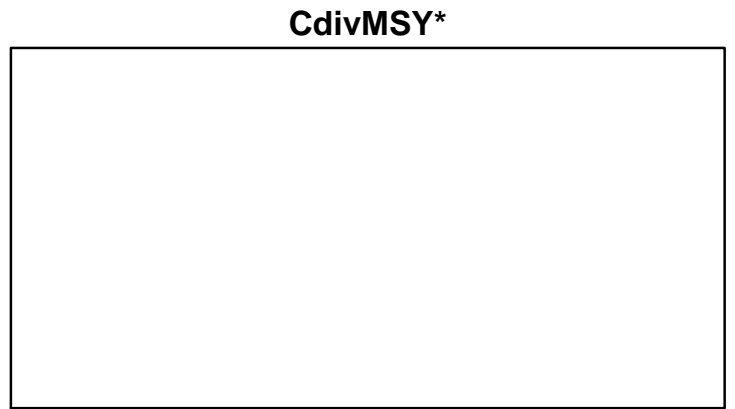
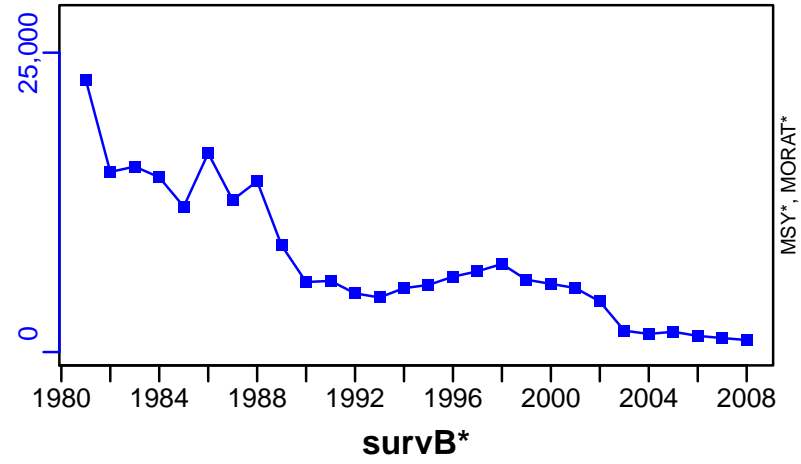
Recruits*



Weakfish Atlantic Coast [WEAKFISHATLC]

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

TAC*, Cpair*, Cadv*



White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

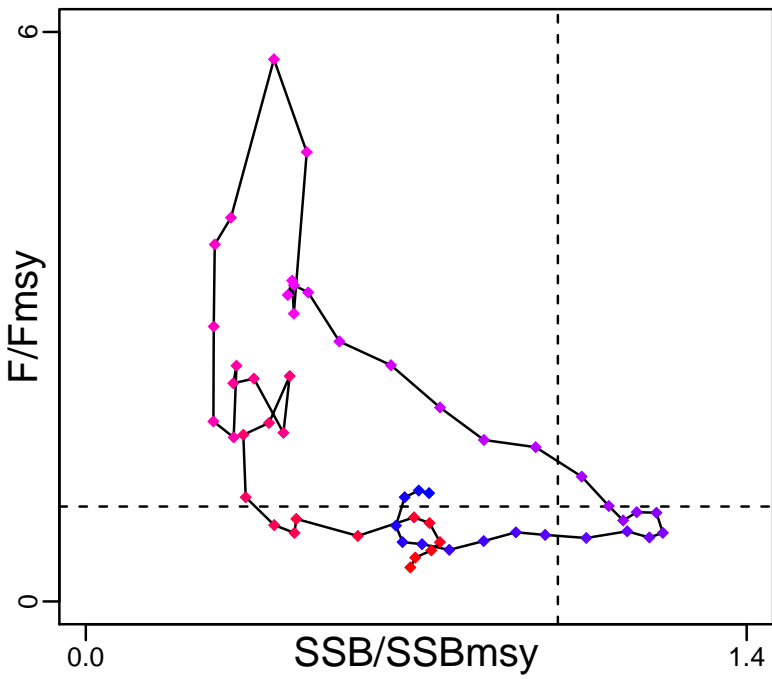
Metadata	
Scientific Name	Urophycis tenuis
Current Assess ID	NEFSC-WHAKEGBGOM-1962-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	30,948
Fmsy	Fmsy-1/yr	2016	0.184
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	4867
M	M-1/yr	2011	0.2
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	15,474
Flim	Flim-1/yr	2016	0.184
ERlim	-	-	-

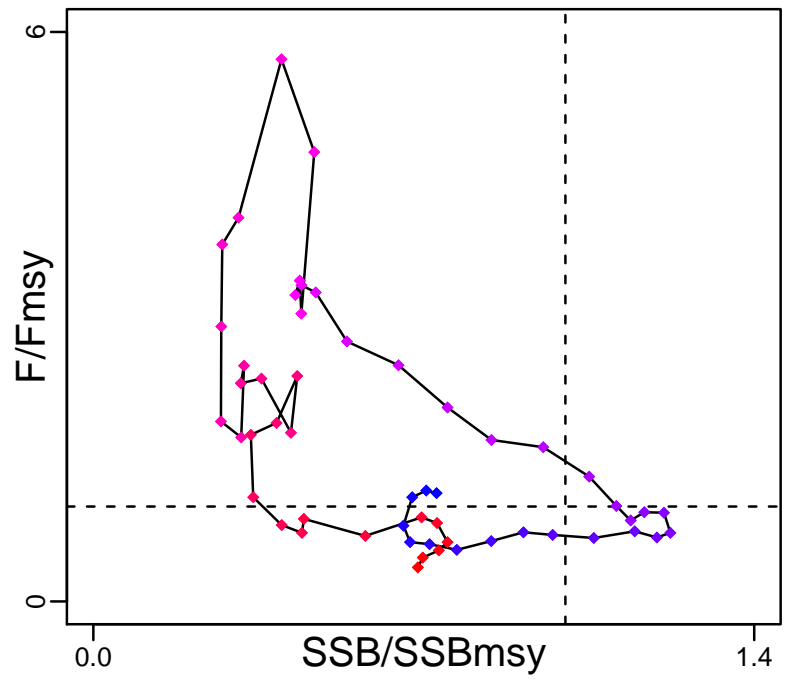
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	31,200	-	-
SSB	SSB-MT	2016	21,276	-	-
TN	-	-	-	-	-
R	R-E00	2016	4,925,000	-	1
F	F-1/yr	2016	0.066	-	-
ER	ER-calc-ratio	2011	0.093	-	-
TC	TC-MT	2016	1396		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.687		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.359		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

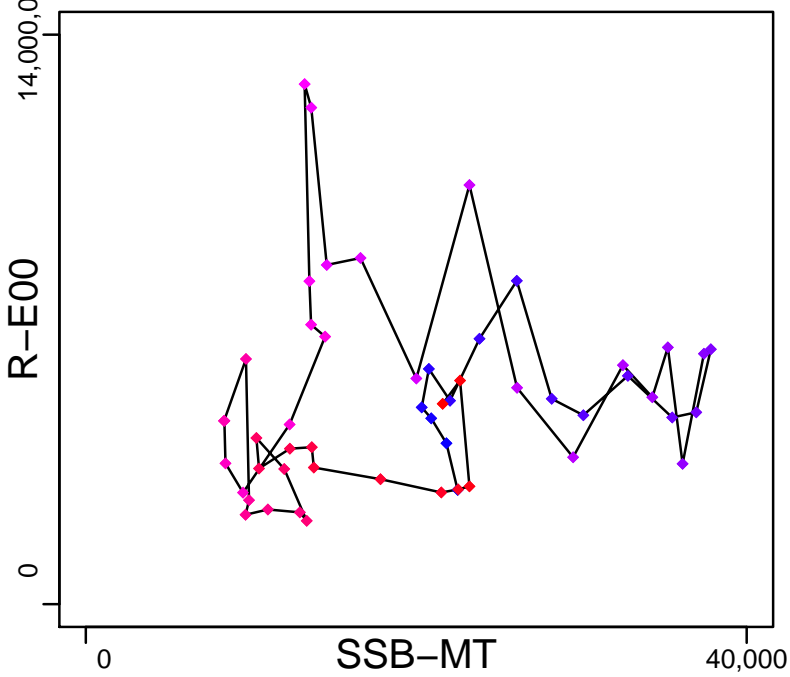
Kobe MSYpref (1962–2016–SISIMP2021)



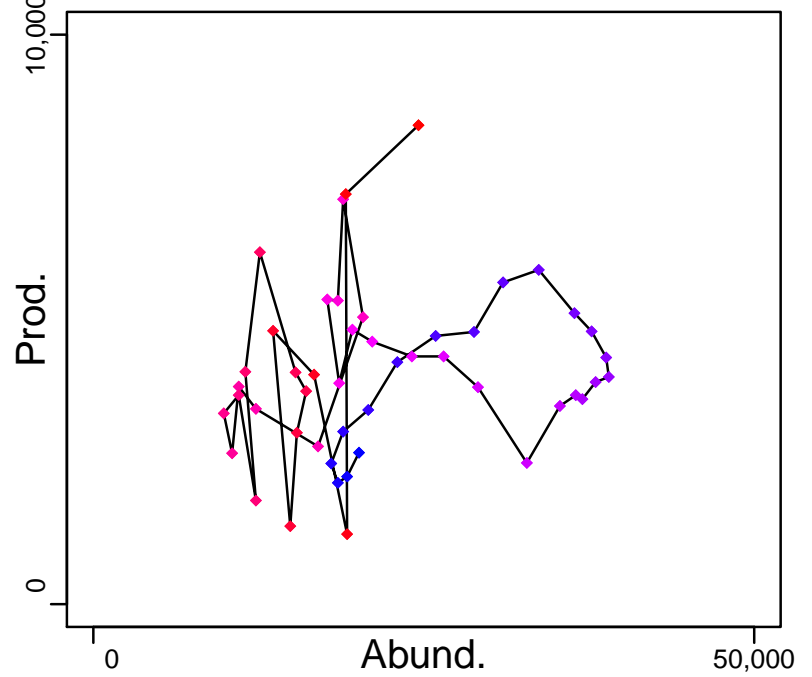
Kobe MGTpref (1962–2016–SISIMP2021)



Spawner Recruit (1962–2016–SISIMP2021)



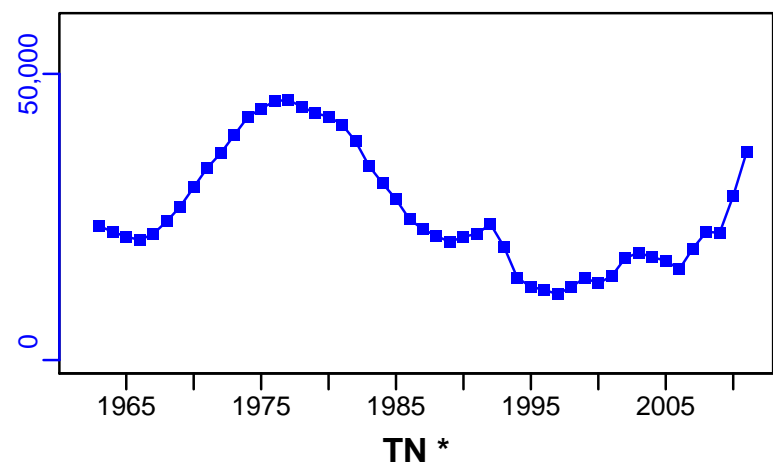
Production (1962–2011–HIVELY)



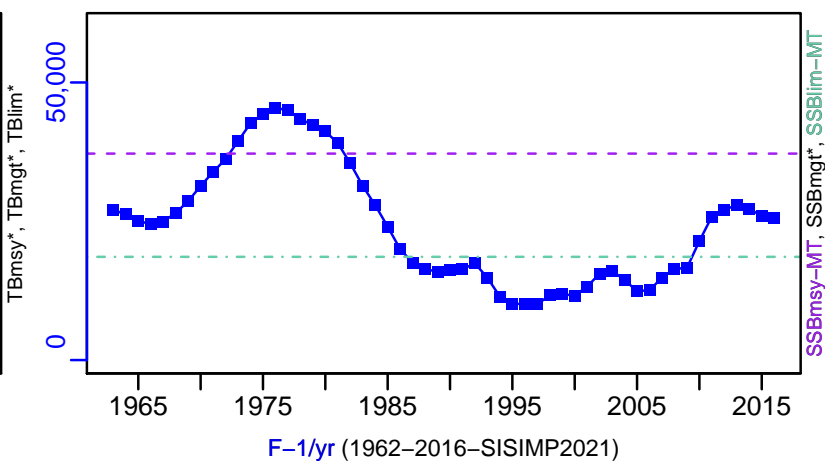
◆ Start Year ◆ End Year * No Data

White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

TB-MT (1962–2011–HIVELY)



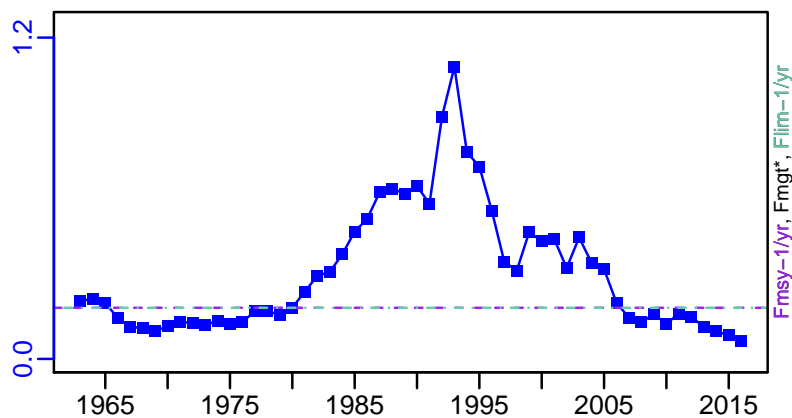
SSB-MT (1962–2016–SISIMP2021)



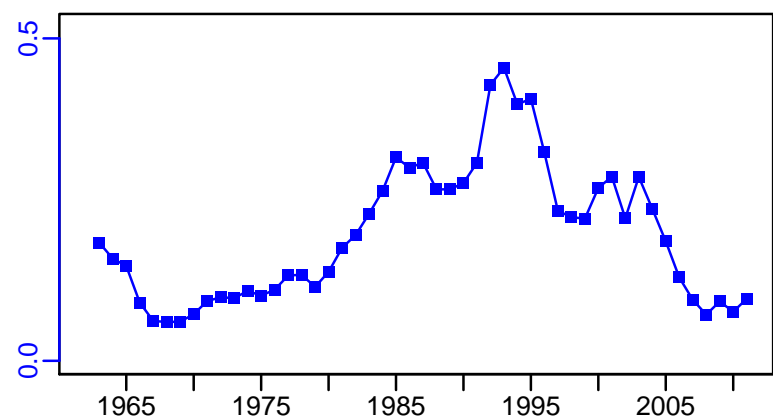
TN *



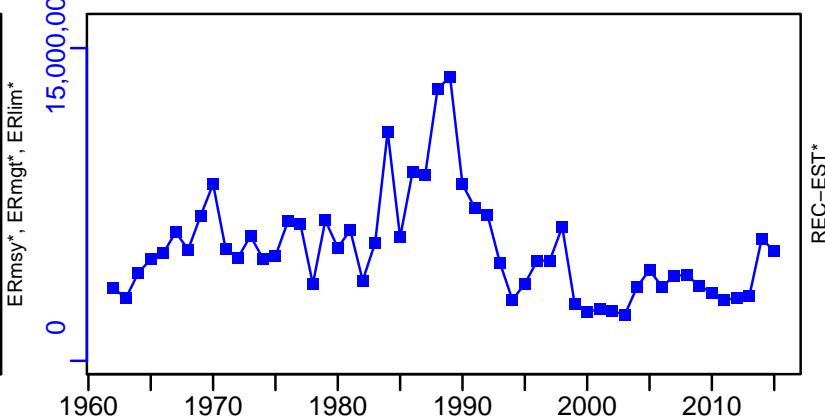
F-1/yr (1962–2016–SISIMP2021)



ER-calc-ratio (1962–2011–HIVELY)

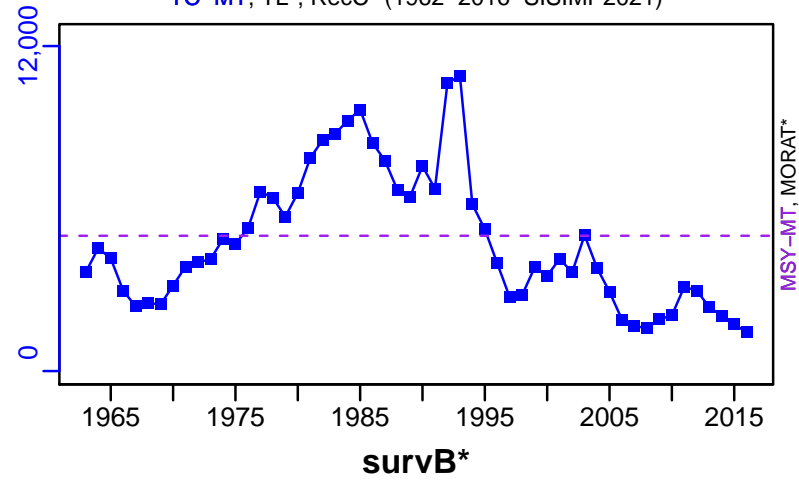


R-E00 (1962–2016–SISIMP2021)



White hake Gulf of Maine / Georges Bank [WHAKEGBGOM]

TC-MT, TL*, RecC* (1962-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



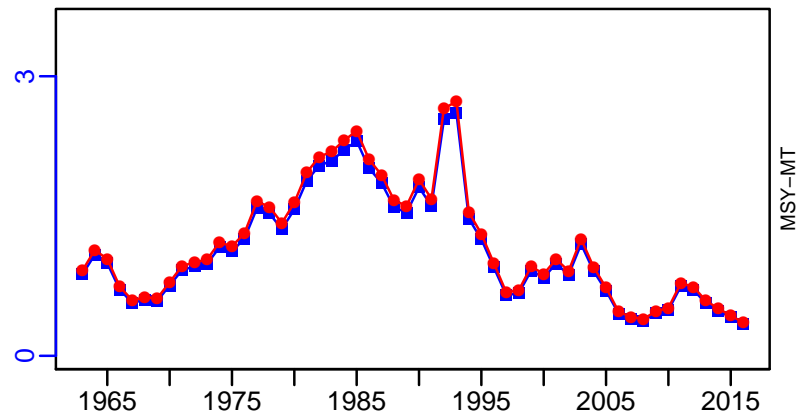
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1962-2016-SISIMP2021)



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

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

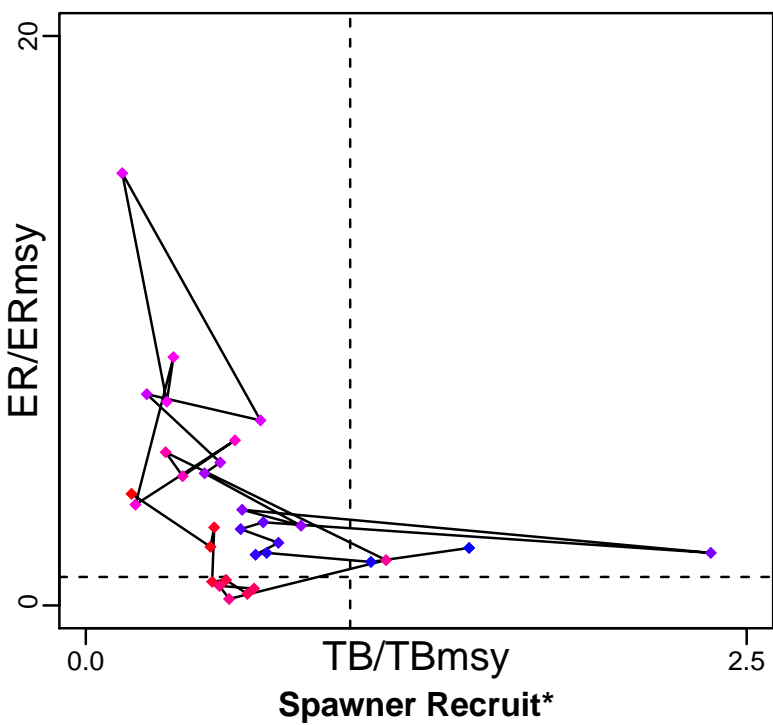
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWGOMGB-1975-2016-SISIMP2021
Area	Gulf of Maine / Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016

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	2016	700
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

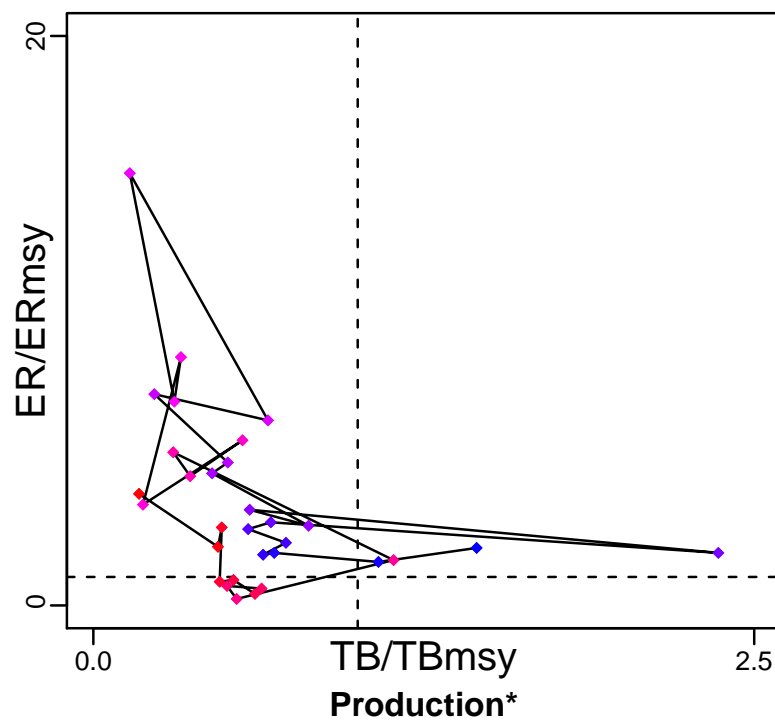
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.242	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.96	-	-
TC	TC-MT	2016	85		
TL	TL-MT	2007	119		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.173		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	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)

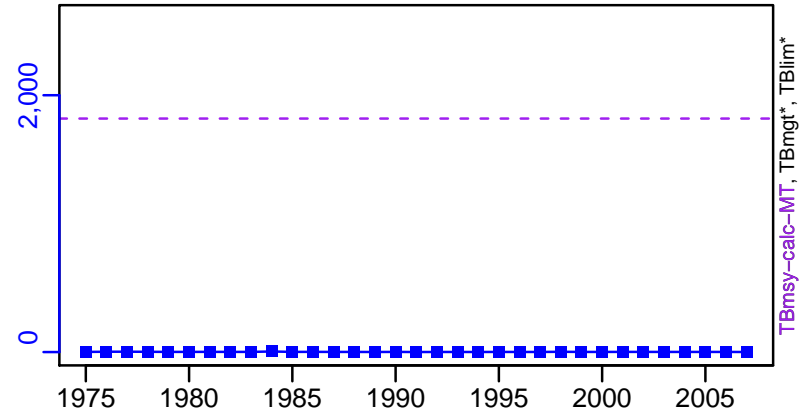


◆ Start Year ◆ End Year * No Data

Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

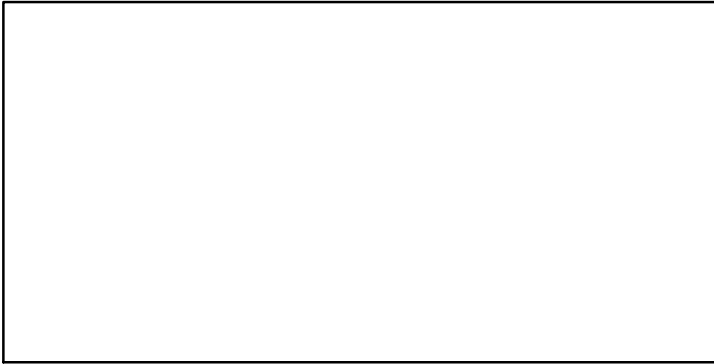
TB-relative (1975–2007–HENDRICKSON)

SSB*



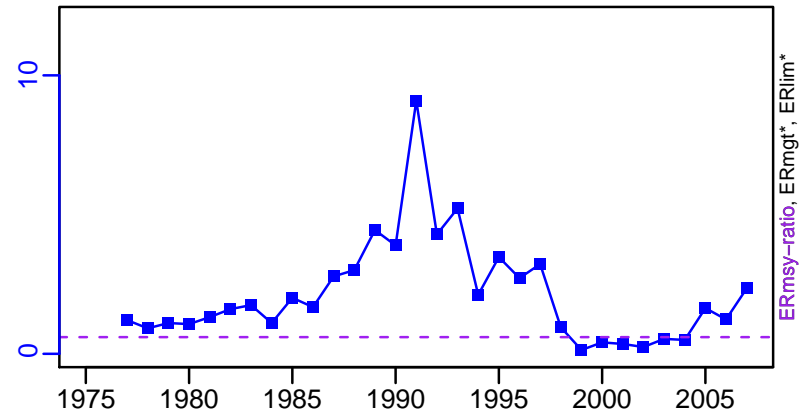
TN *

F*



ER-ratio (1975–2007–HENDRICKSON)

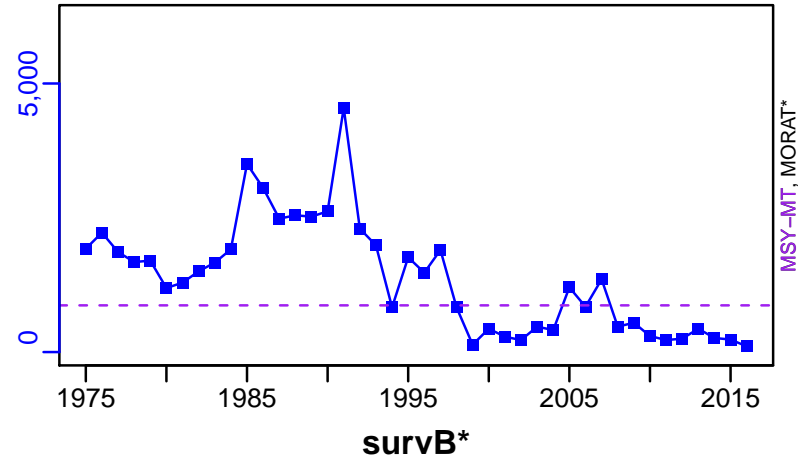
Recruits*



Windowpane flounder Gulf of Maine / Georges Bank [WINDOWGOMGB]

TC-MT, TL*, RecC* (1975–2016–SISIMP2021)

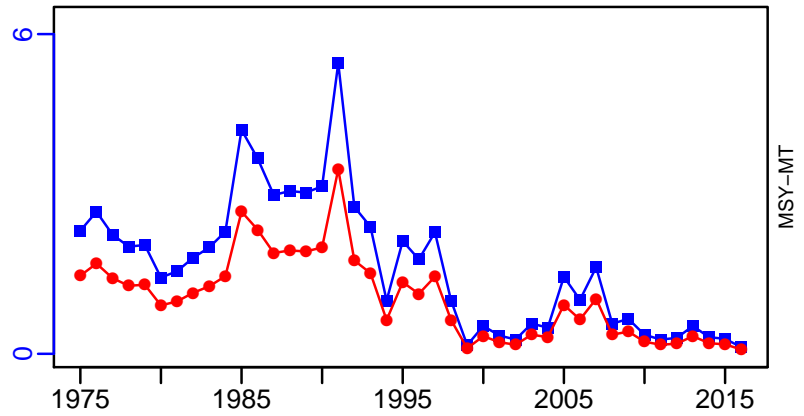
TAC*, Cpair*, Cadv*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975–2016–SISIMP2021)



Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

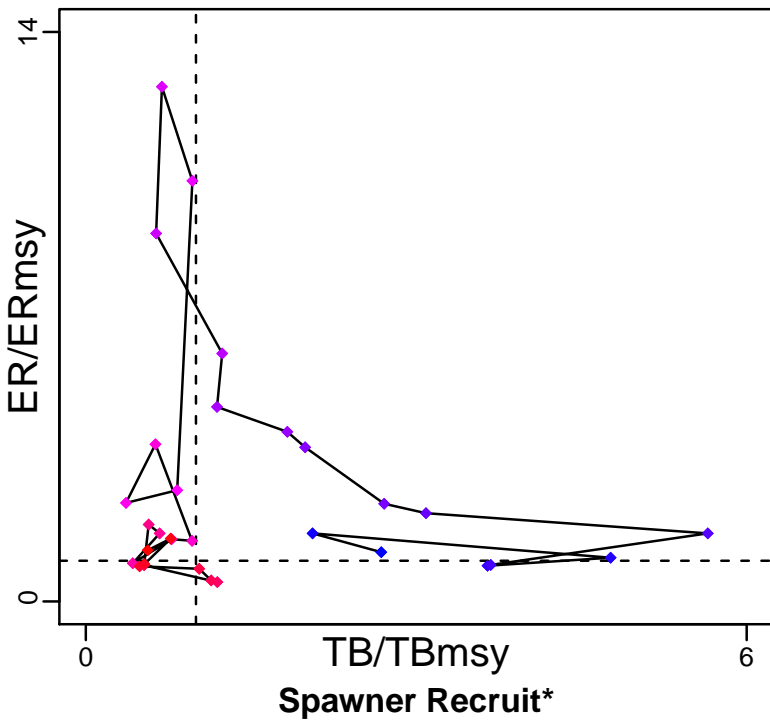
Metadata	
Scientific Name	Scophthalmus aquosus
Current Assess ID	NEFSC-WINDOWSNEMATL-1975-2016-SISIMP2021
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2007, 2014, 2016

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	2016	500
M	M-1/yr	2007	0.2
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

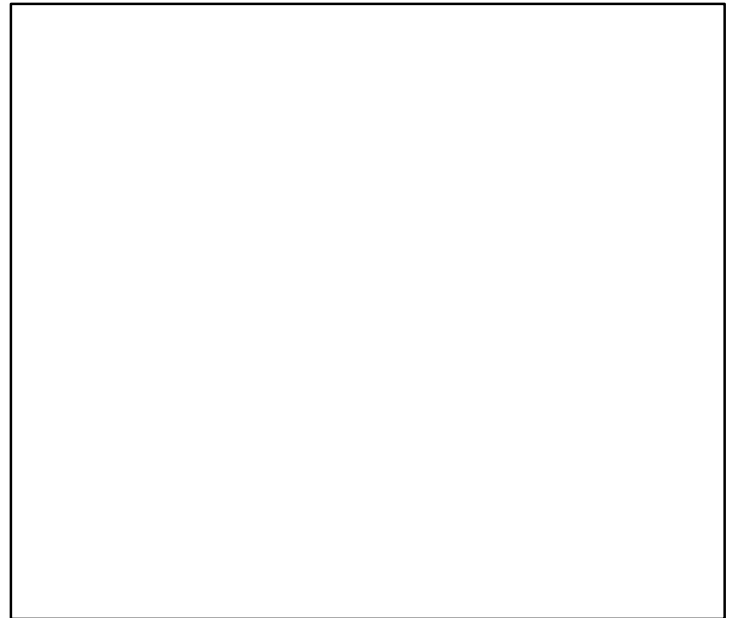
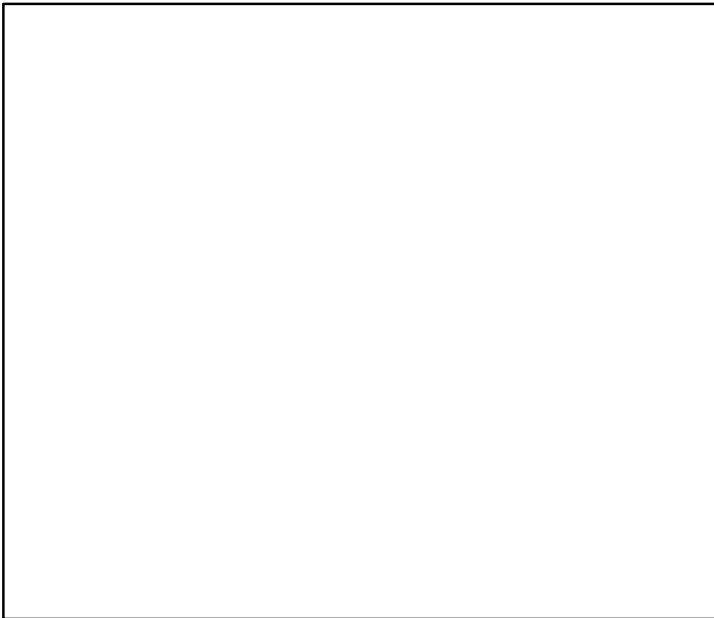
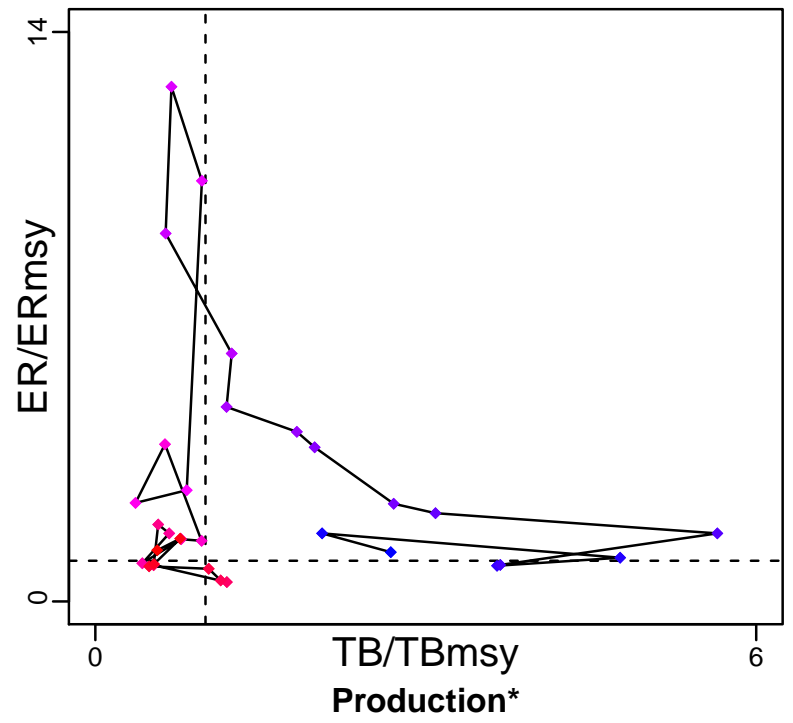
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-relative	2007	0.191	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	ER-ratio	2007	1.85	-	-
TC	TC-MT	2016	571		
TL	TL-MT	2007	81		
TB/TBmsy	TB-relative/TBmsy-relative	2007	0.562		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	ER-ratio/ERmsy-ratio	2007	1.259		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

Kobe MSYpref (1975–2007–HENDRICKSON)



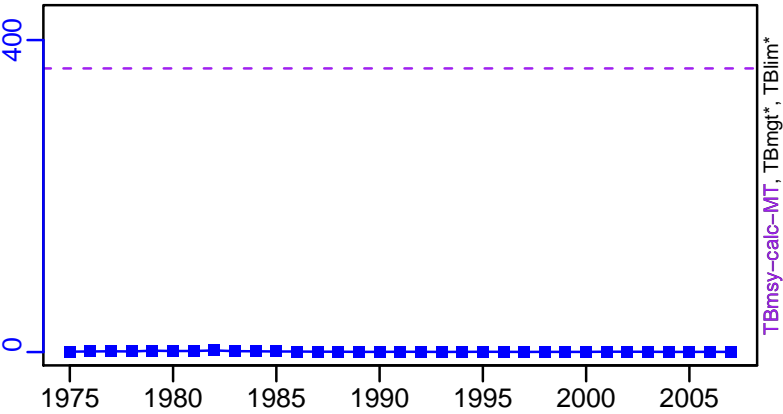
Kobe MGTpref (1975–2007–HENDRICKSON)



◆ Start Year ◆ End Year * No Data

Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

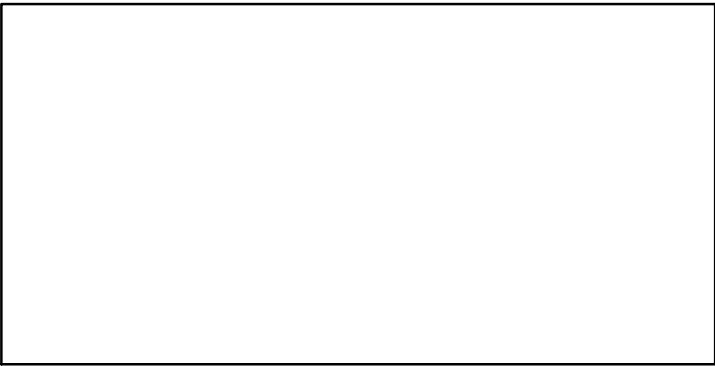
TB-relative (1975–2007–HENDRICKSON)



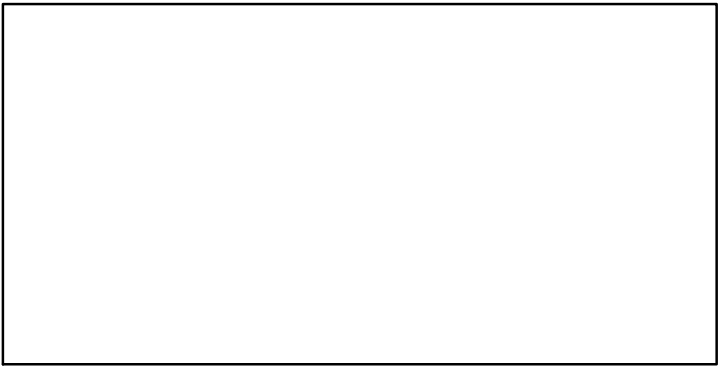
SSB*



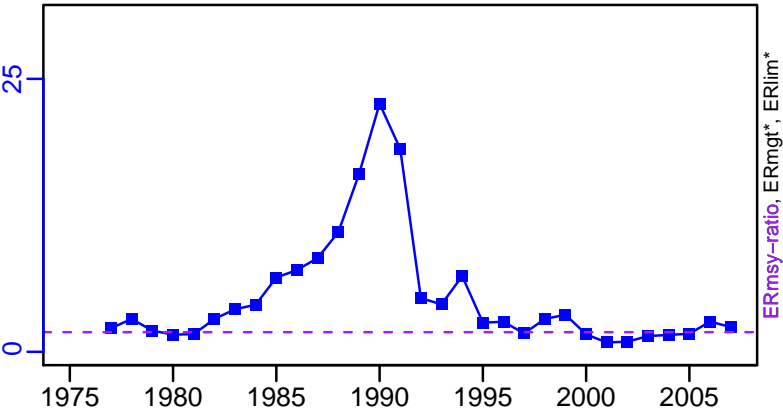
TN *



F*



ER-ratio (1975–2007–HENDRICKSON)



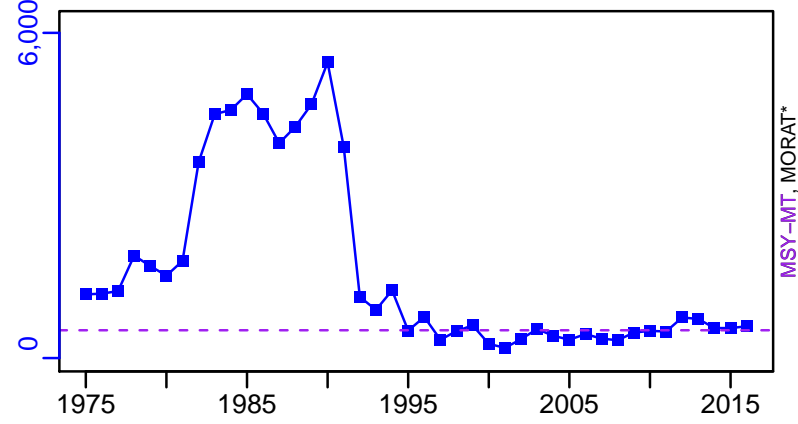
Recruits*



Windowpane flounder Southern New England /Mid Atlantic [WINDOWSNEMATL]

TC-MT, TL*, RecC* (1975–2016–SISIMP2021)

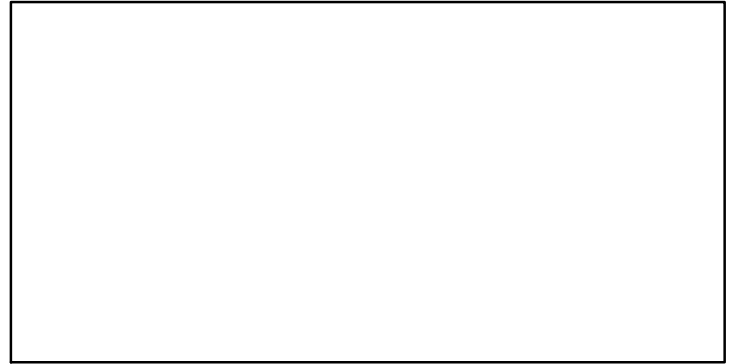
TAC*, Cpair*, Cadv*



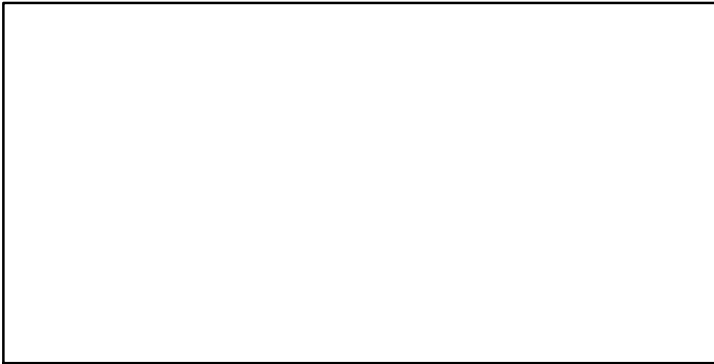
survB*



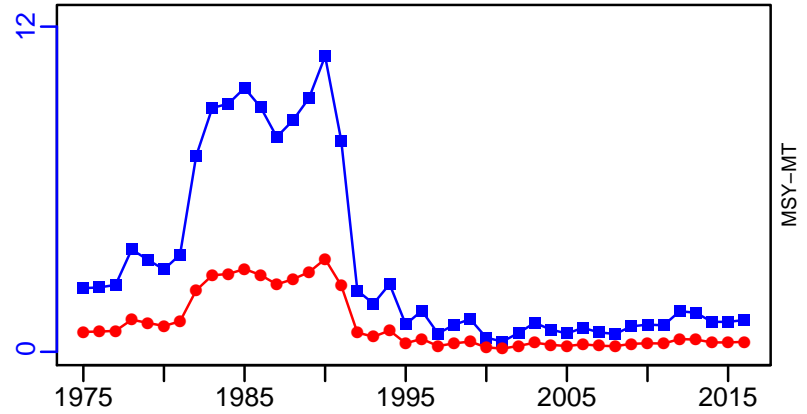
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1975–2016–SISIMP2021)



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

Winter flounder Georges Bank [WINFLOUN5Z]

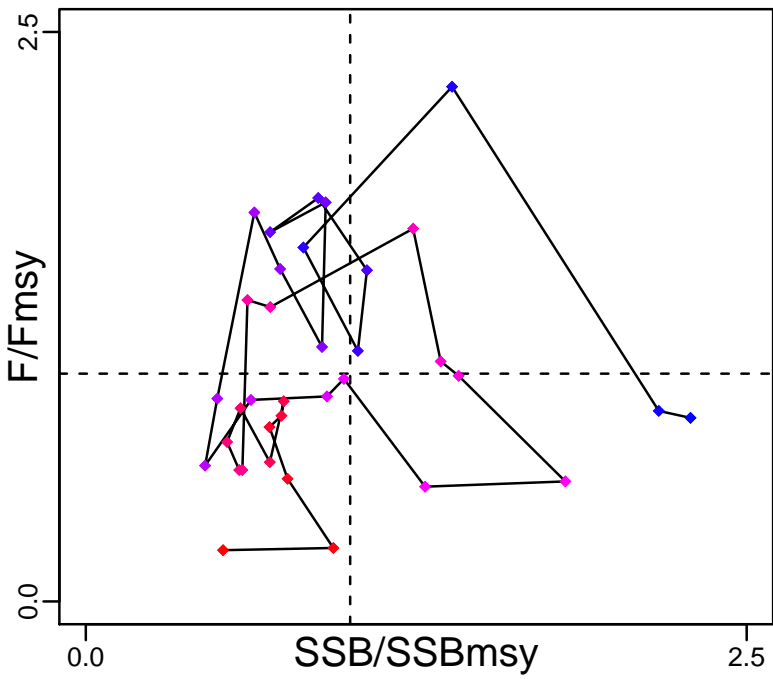
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUN5Z-1981-2016-SISIMP2021
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	7600
Fmsy	Fmsy-1/yr	2016	0.52
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2011	11,800
Fmgt	Fmgt-1/yr	2011	0.315
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	3500
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	3800
Flim	Flim-1/yr	2016	0.52
ERlim	-	-	-

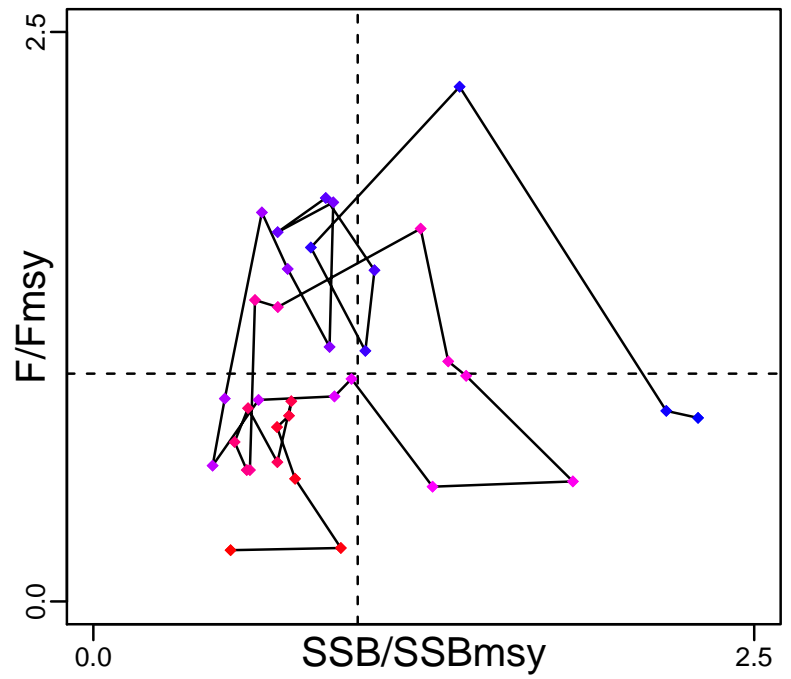
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	3946	-	-
TN	TN-E00	2011	38,600,000	-	-
R	R-E00	2016	2,556,000	-	1
F	F-1/yr	2016	0.117	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	493		
TL	TL-MT	2011	1300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.519		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.225		
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]

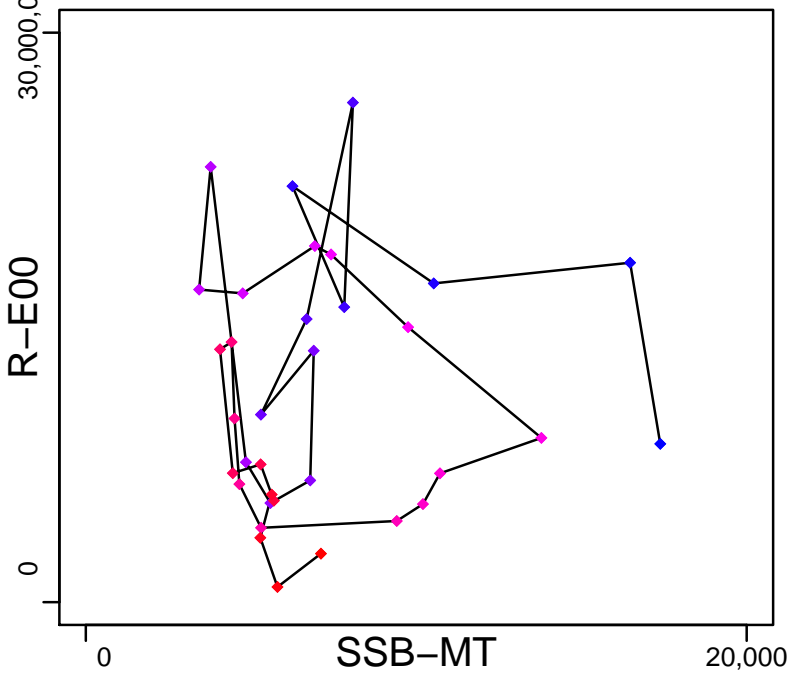
Kobe MSYpref (1981–2016–SISIMP2021)



Kobe MGTpref (1981–2016–SISIMP2021)



Spawner Recruit (1981–2016–SISIMP2021)



Production*



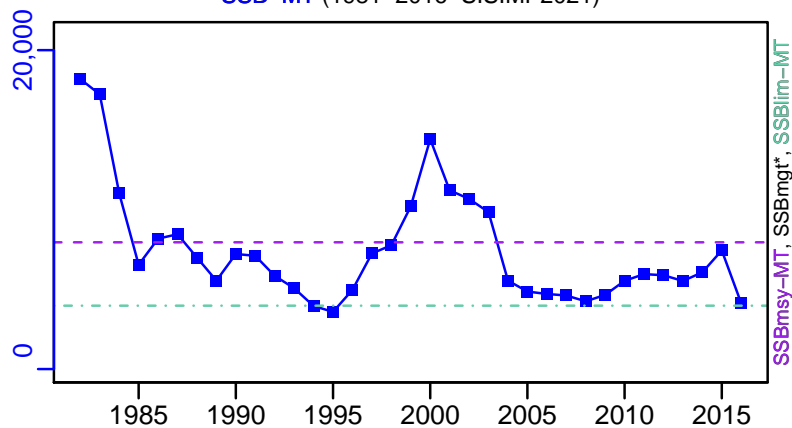
◆ Start Year ◆ End Year * No Data

Winter flounder Georges Bank [WINFLOUN5Z]

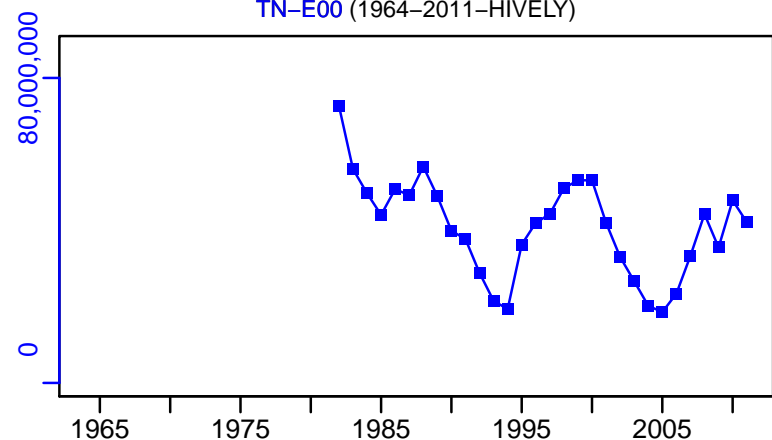
TB*



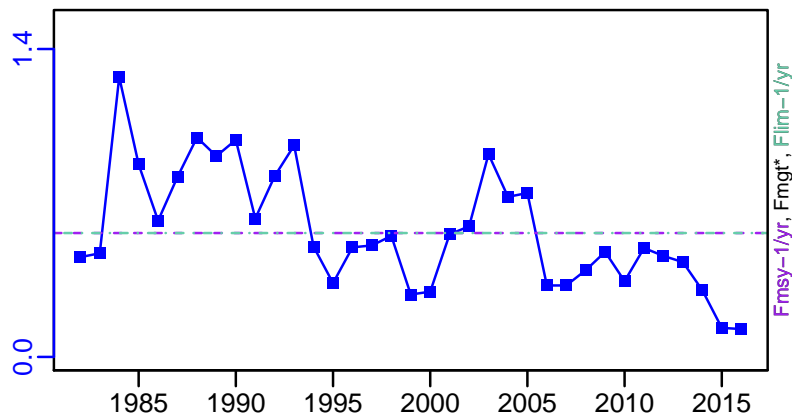
SSB-MT (1981–2016–SISIMP2021)



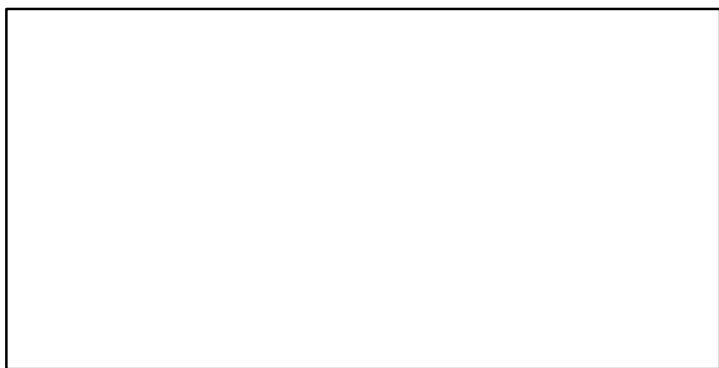
TN-E00 (1964–2011–HIVELY)



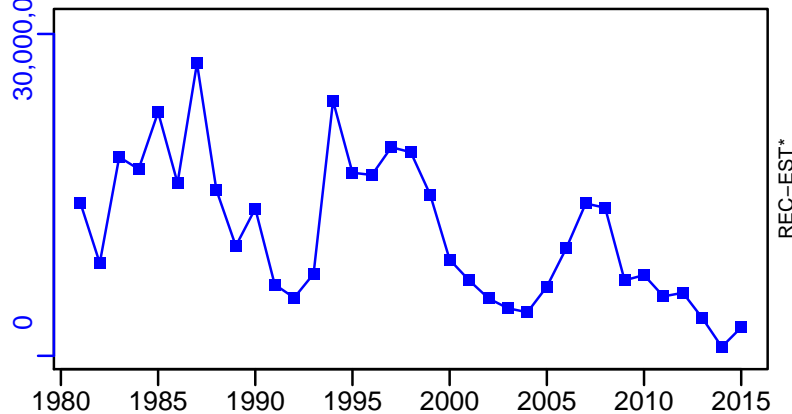
F-1/yr (1981–2016–SISIMP2021)



ER*

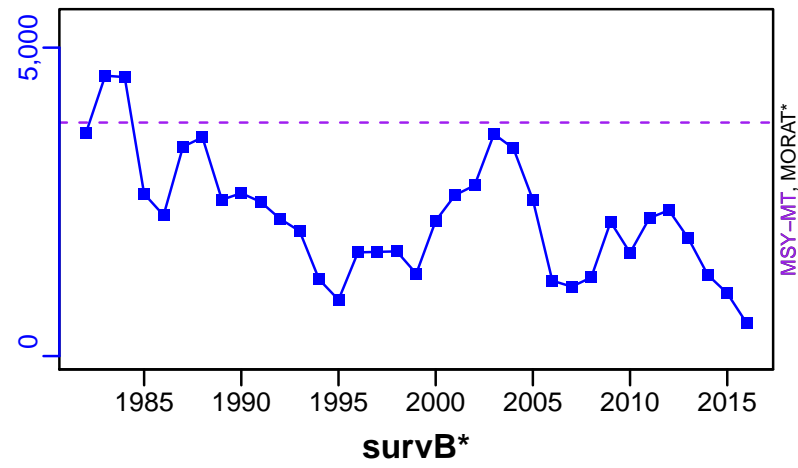


R-E00 (1981–2016–SISIMP2021)



Winter flounder Georges Bank [WINFLOUN5Z]

TC-MT, TL*, RecC* (1981-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



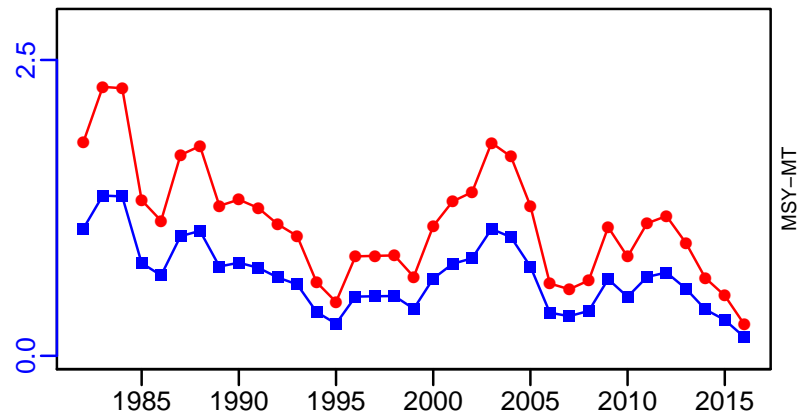
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1981-2016-SISIMP2021)



■ 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-2009-2016-SISIMP2021
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 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	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	221		
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*



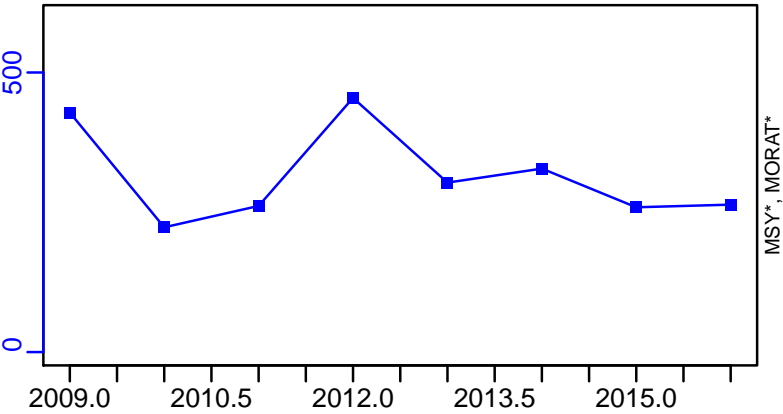
Recruits*



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

Winter flounder Gulf of Maine [WINFLOUND5Y]

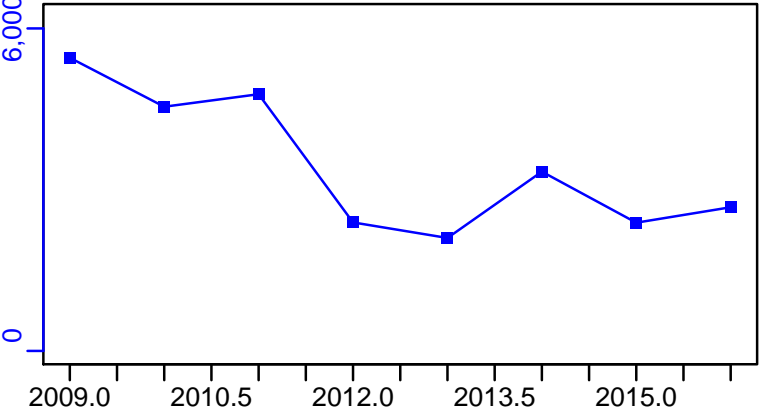
TC-MT, TL*, RecC* (2009-2016-SISIMP2021)



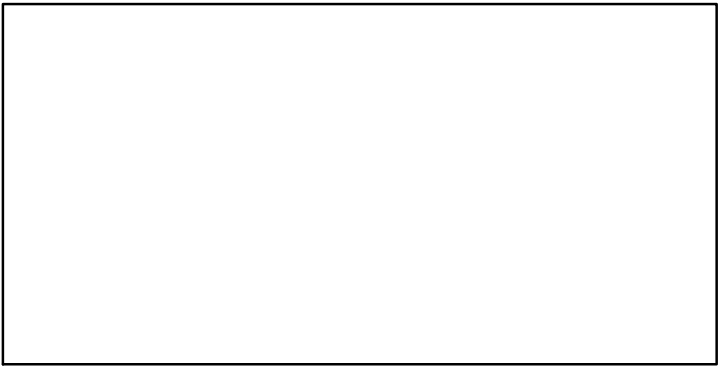
TAC*, Cpair*, Cadv*



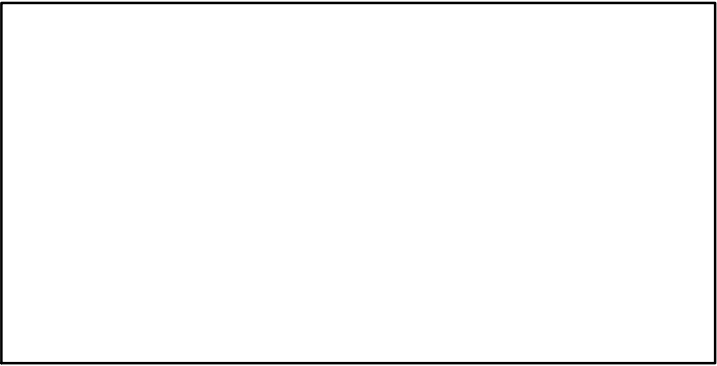
survB-MT (2009-2016-SISIMP2021)



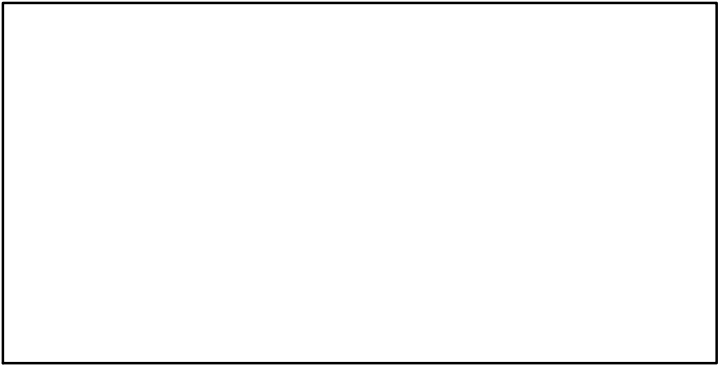
CPUE*



EFFORT*



CdivMSY*



Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

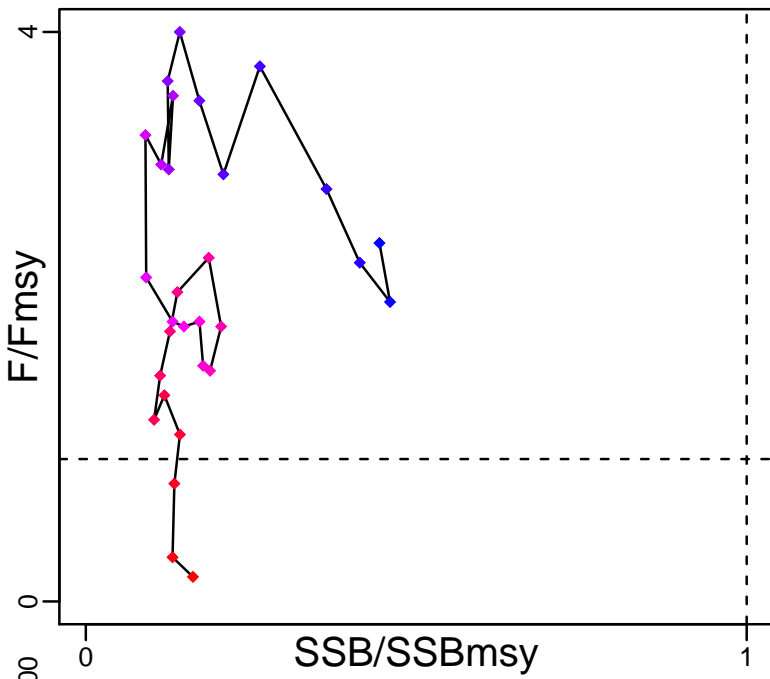
Metadata	
Scientific Name	Pseudopleuronectes americanus
Current Assess ID	NEFSC-WINFLOUNSNEMATL-1980-2016-SISIMP2021
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2010, 2013, 2016

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	24,687
Fmsy	Fmsy-1/yr	2016	0.34
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2010	43,661
Fmgt	Fmgt-1/yr	2010	0.22
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	7532
M	M-1/yr	2010	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	13,843
Flim	Flim-1/yr	2016	0.34
ERlim	-	-	-

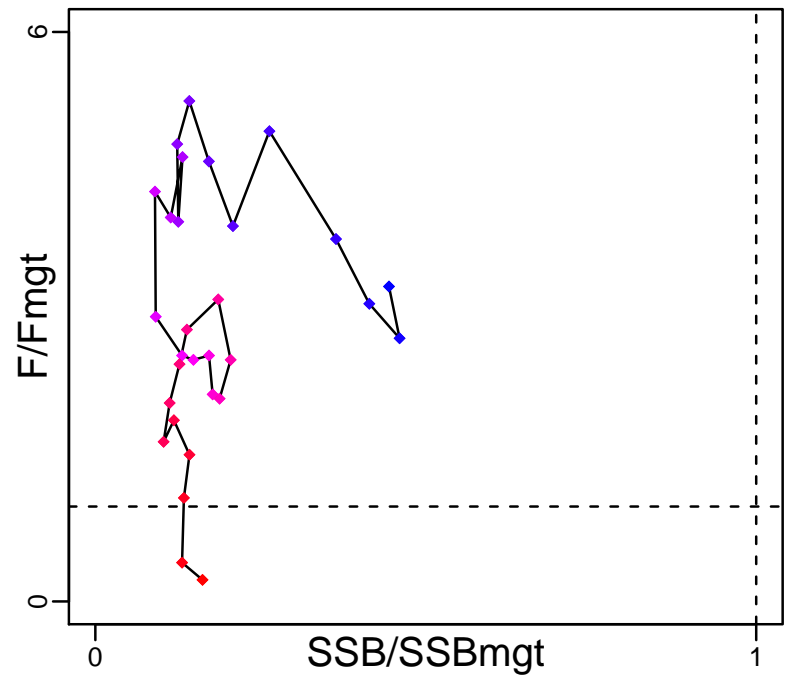
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2010	7080	-	3+
TN	-	-	-	-	-
R	R-E00	2016	7,549,000	-	1
F	F-1/yr	2016	0.21	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	678		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2010	0.162		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	0.618		
ER/ERmsy	-	-	-		
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]

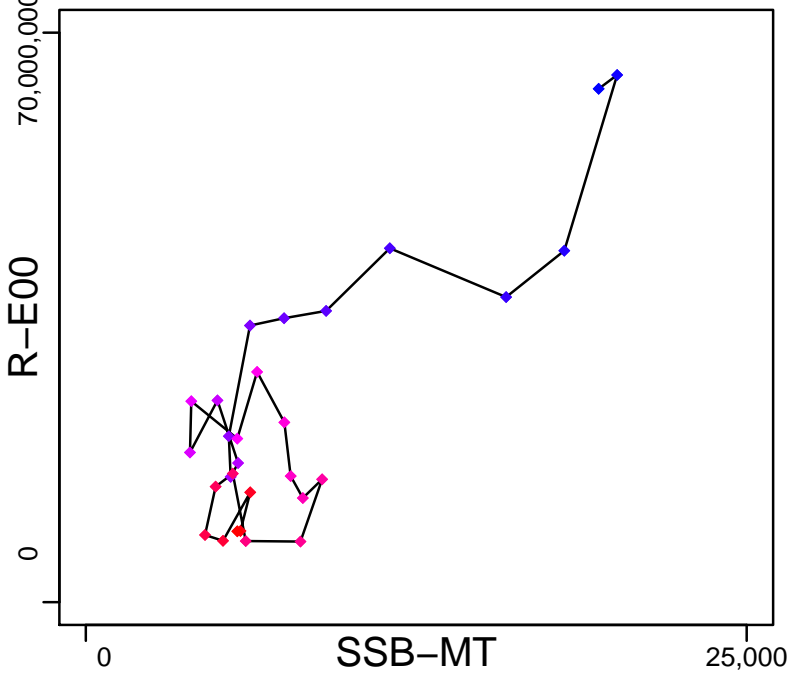
Kobe MSYpref (1980–2010–HIVELY)



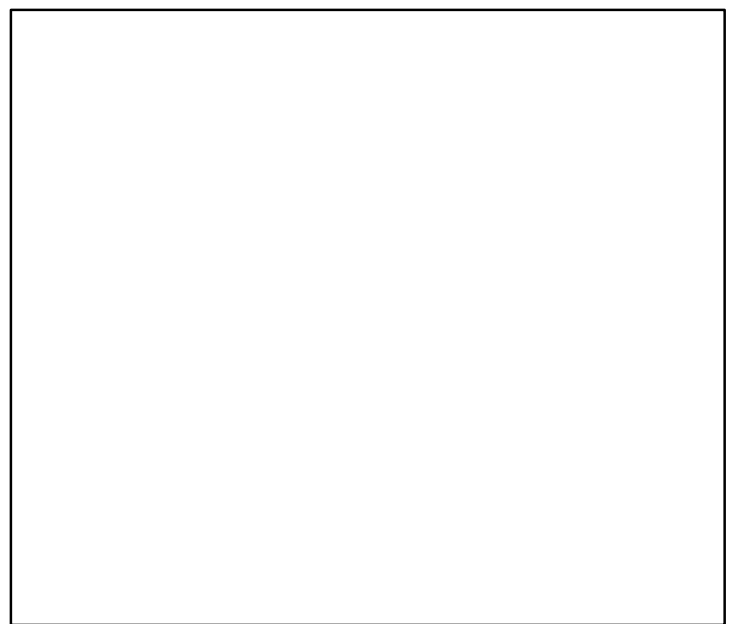
Kobe MGTpref (1980–2010–HIVELY)



Spawner Recruit (1980–2010–HIVELY)



Production*



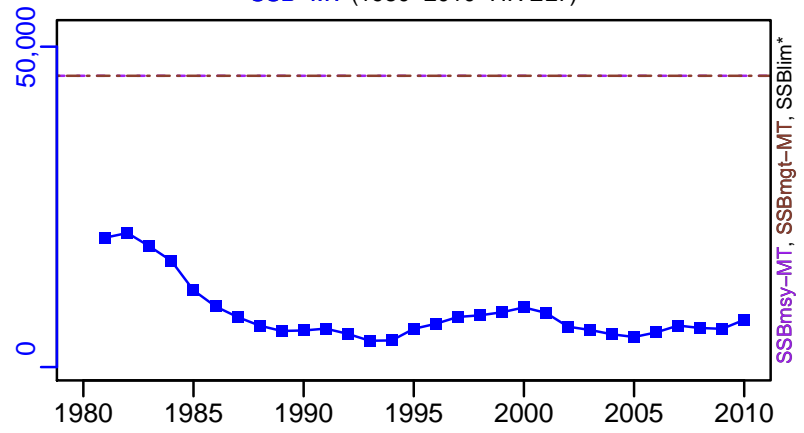
◆ Start Year ◆ End Year * No Data

Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

TB*



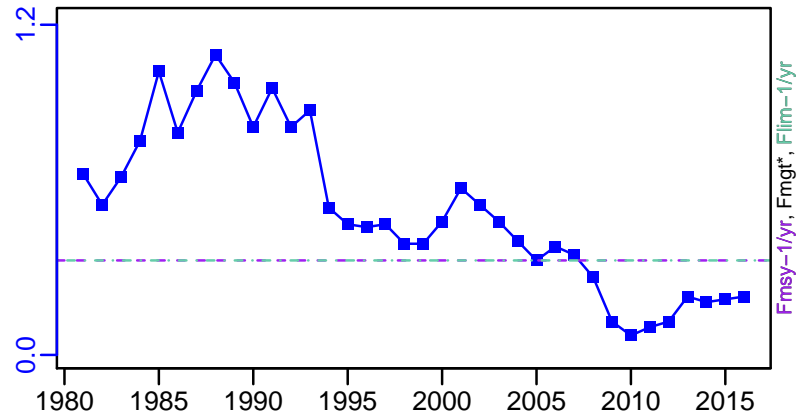
SSB-MT (1980-2010-HIVELY)



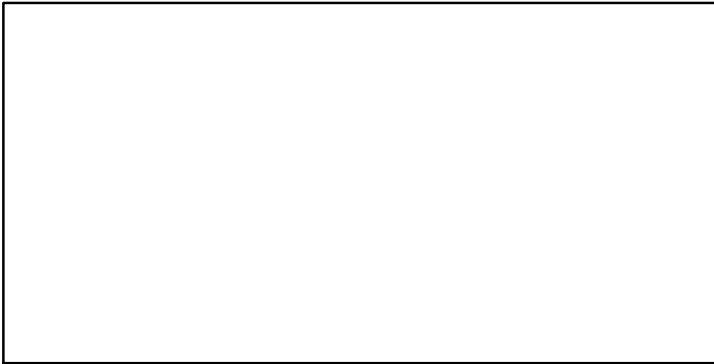
TN *



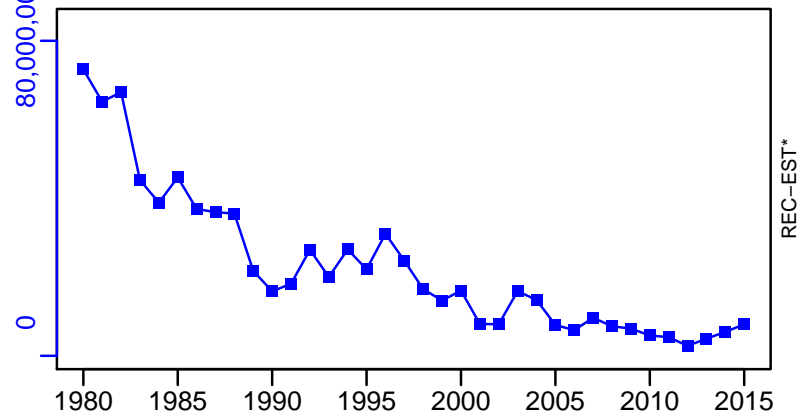
F-1/yr (1980-2016-SISIMP2021)



ER*

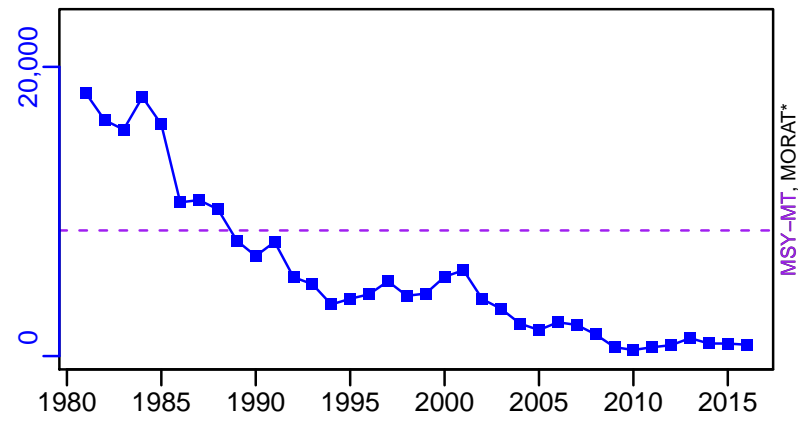


R-E00 (1980-2016-SISIMP2021)



Winter flounder Southern New England /Mid Atlantic [WINFLOUNSNEMATL]

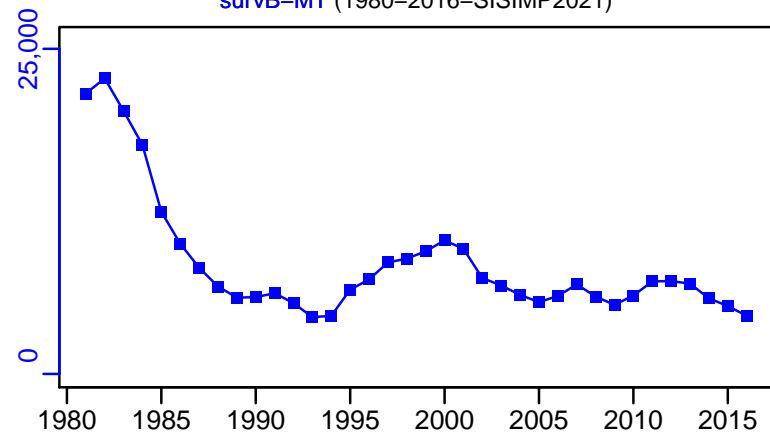
TC-MT, TL*, RecC* (1980-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



survB-MT (1980-2016-SISIMP2021)



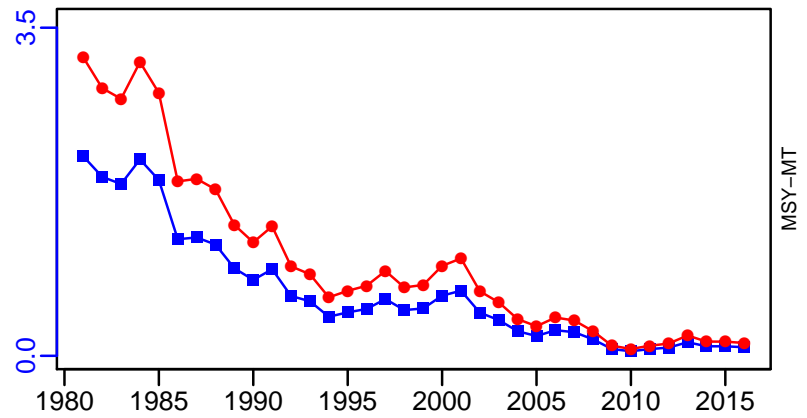
CPUE*



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

Witch flounder Gulf of Maine [WITFLOUN5Y]

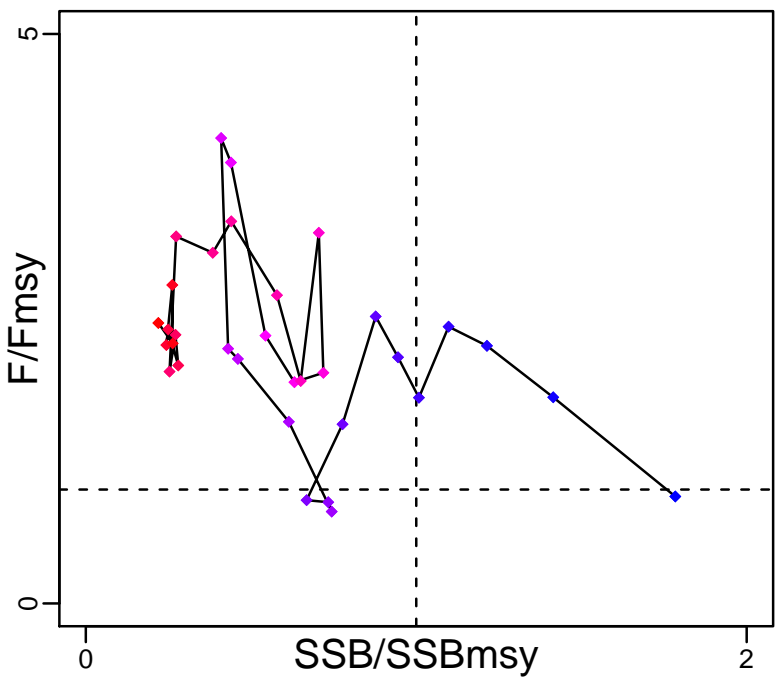
Metadata	
Scientific Name	Glyptocephalus cynoglossus
Current Assess ID	NEFSC-WITFLOUN5Y-1982-2016-SISIMP2021
Area	Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2014, 2016

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	-	-	-

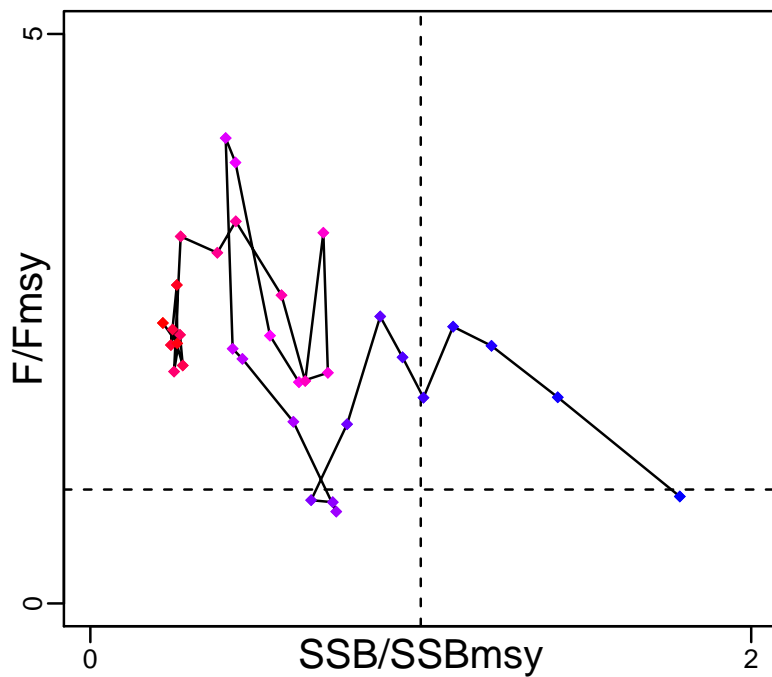
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2014	2080	-	-
TN	-	-	-	-	-
R	R-E00	2014	10,200,000	-	3
F	F-1/yr	2014	0.687	-	-
ER	ER-ratio	2016	0.035	-	-
TC	TC-MT	2016	512		
TL	TL-MT	2008	1070		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2014	0.22		
F/Fmsy	F-1/yr/Fmsy-1/yr	2014	2.462		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Witch flounder Gulf of Maine [WITFLOUN5Y]

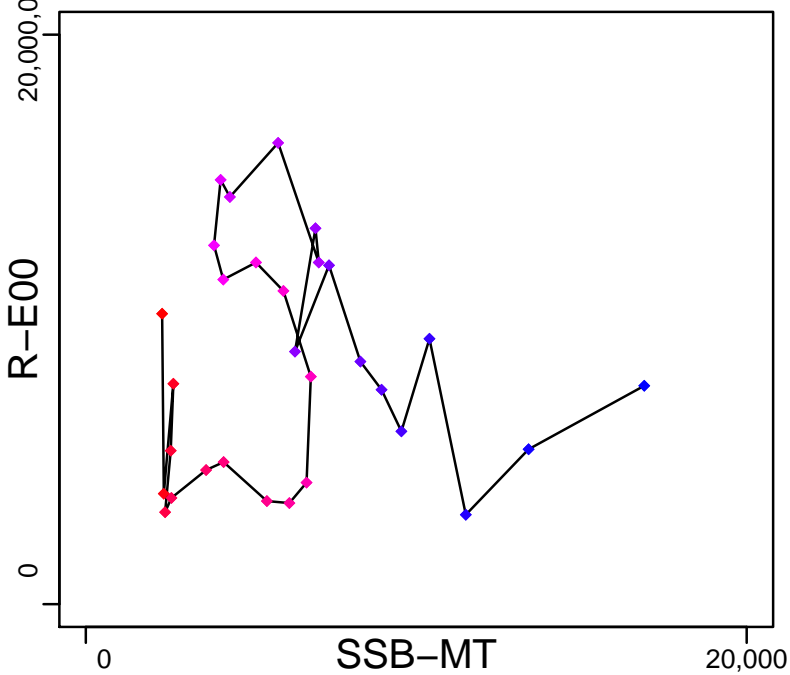
Kobe MSYpref (1982–2014–SISIMP2016)



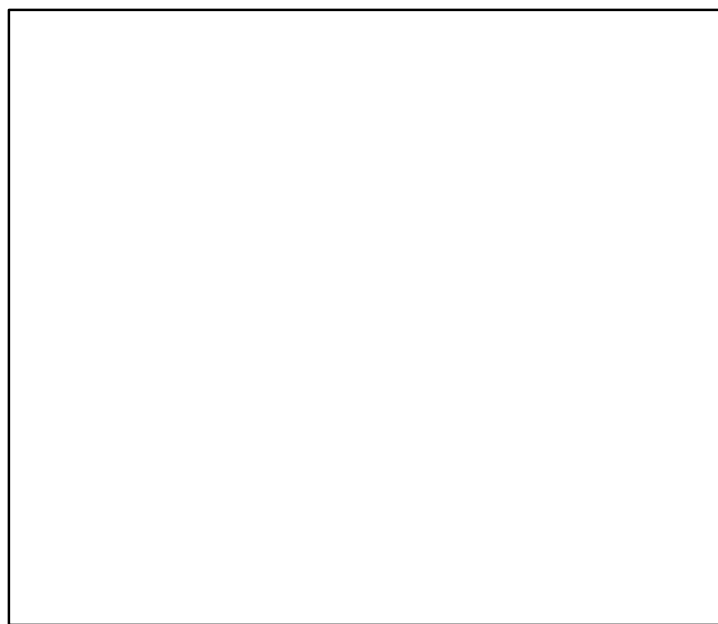
Kobe MGTpref (1982–2014–SISIMP2016)



Spawner Recruit (1982–2014–SISIMP2016)



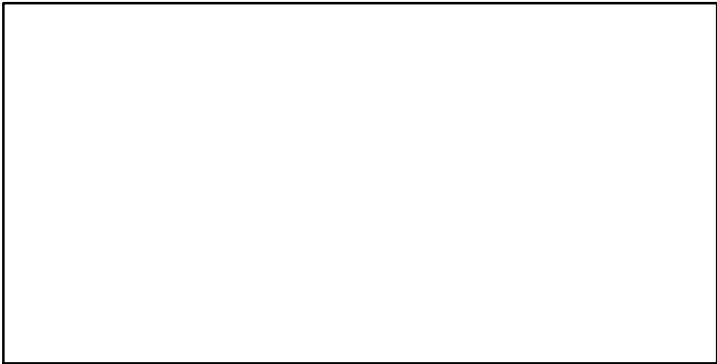
Production*



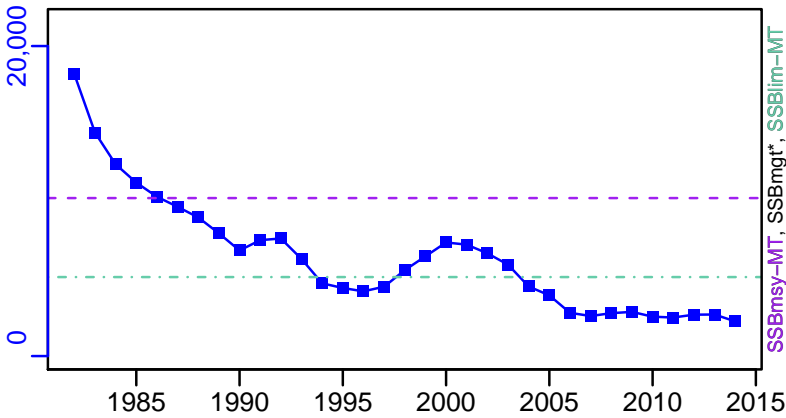
◆ Start Year ◆ End Year * No Data

Witch flounder Gulf of Maine [WITFLOUN5Y]

TB*



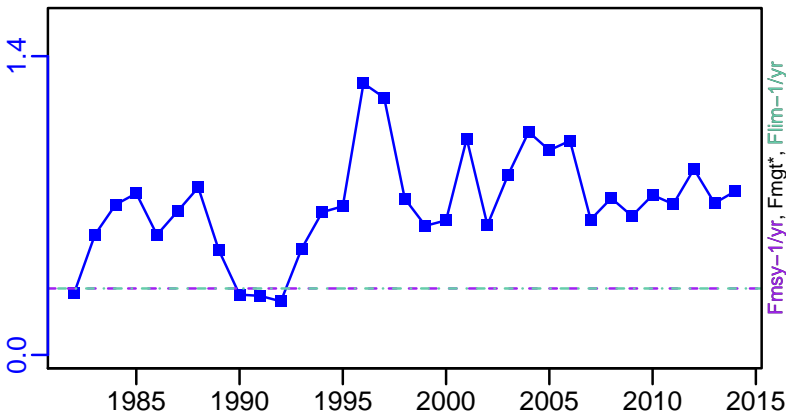
SSB-MT (1982–2014–SISIMP2016)



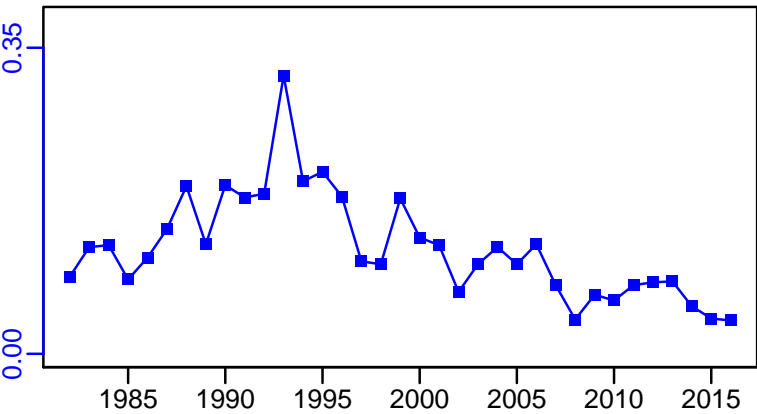
TN *



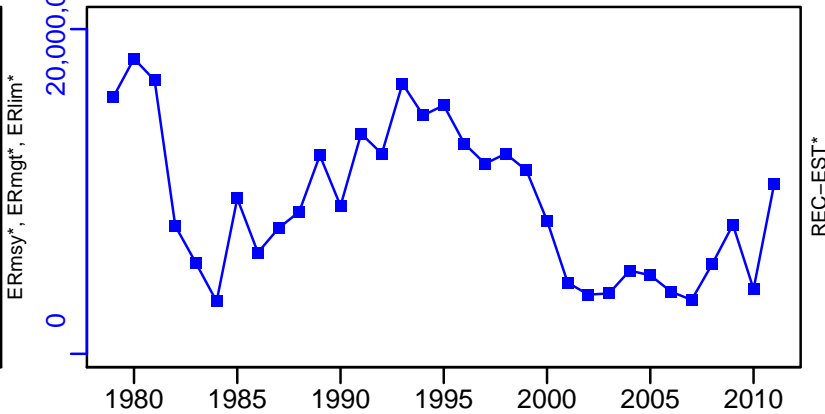
F-1/yr (1982–2014–SISIMP2016)



ER-ratio (1982–2016–SISIMP2021)

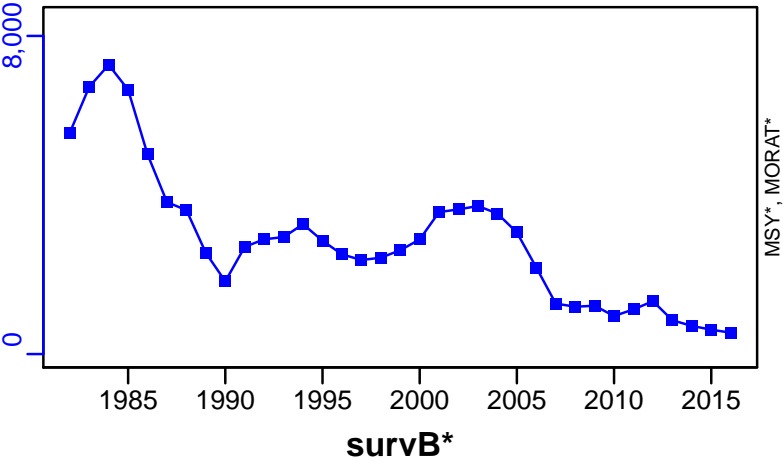


R-E00 (1982–2014–SISIMP2016)



Witch flounder Gulf of Maine [WITFLOUN5Y]

TC-MT, TL*, RecC* (1982-2016-SISIMP2021)



TAC*, Cpair*, Cadv*



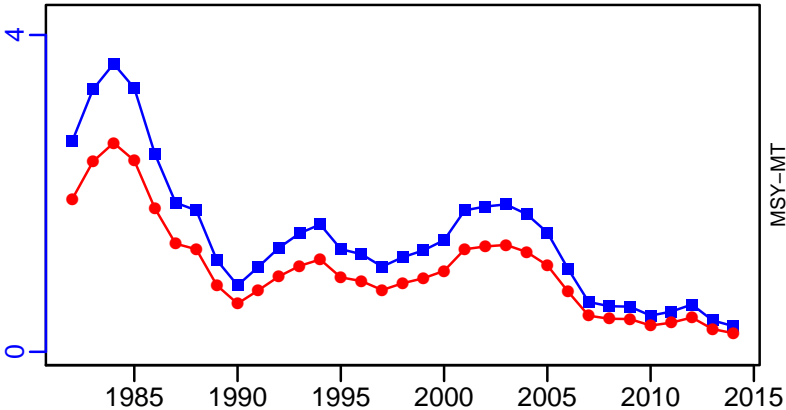
CPUE*



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

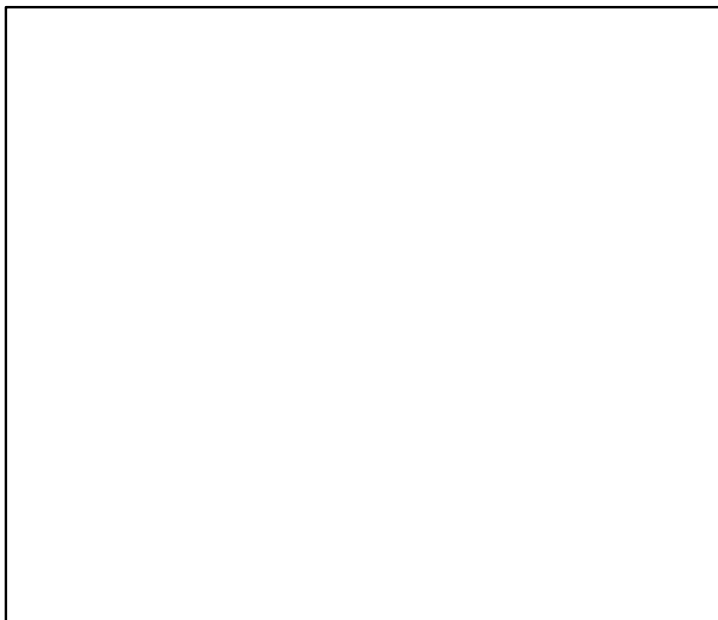
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

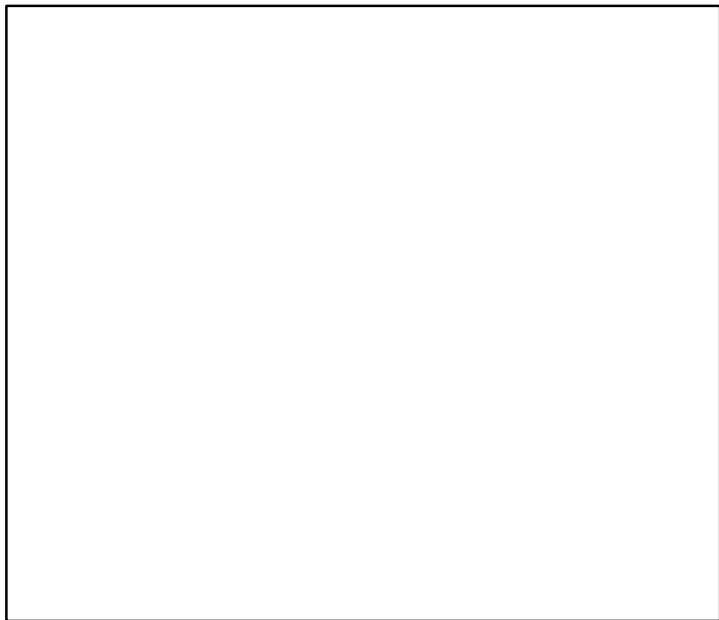
Kobe MSY*



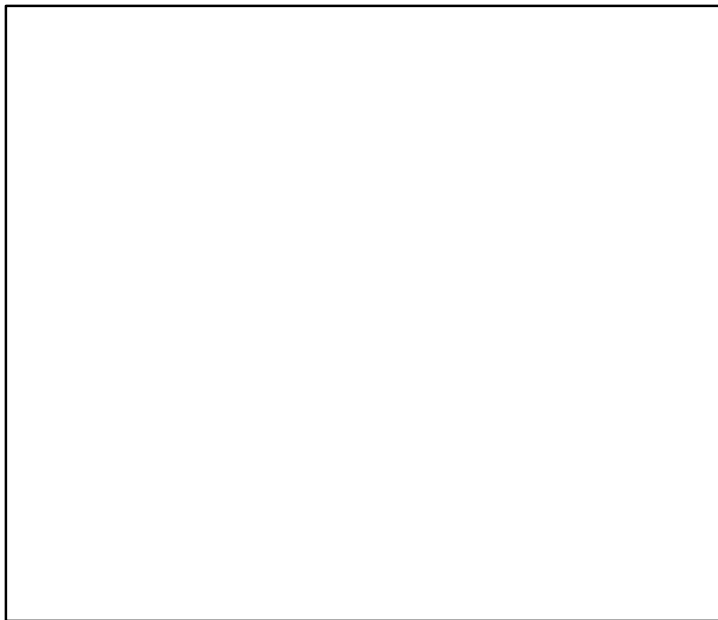
Kobe MGT*



Spawner Recruit*



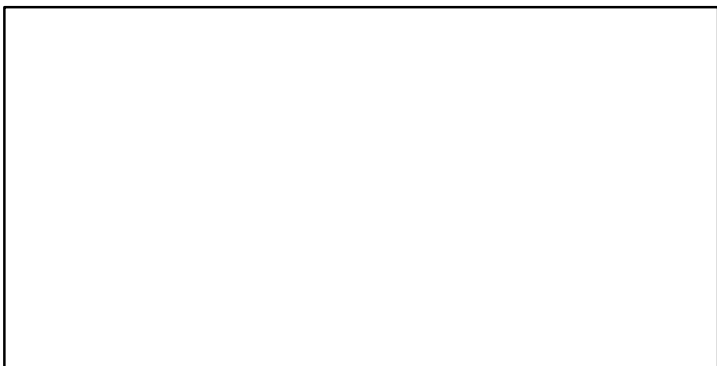
Production*



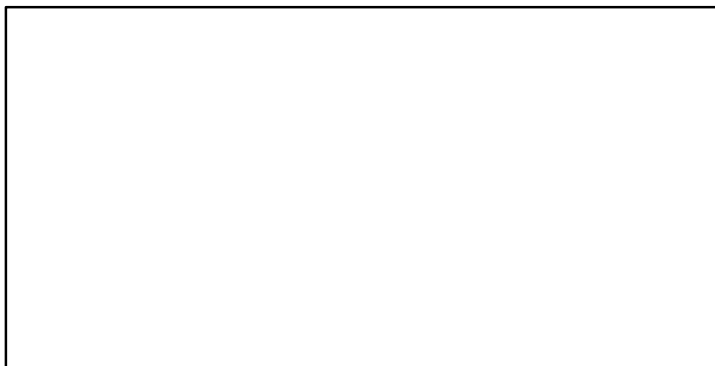
◆ Start Year ◆ End Year * No Data

Winter skate Gulf of Maine / Cape Hatteras [WSKAT5YCHATT]

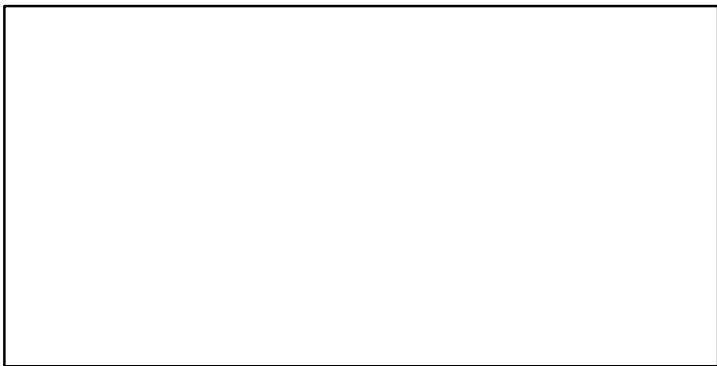
TB*



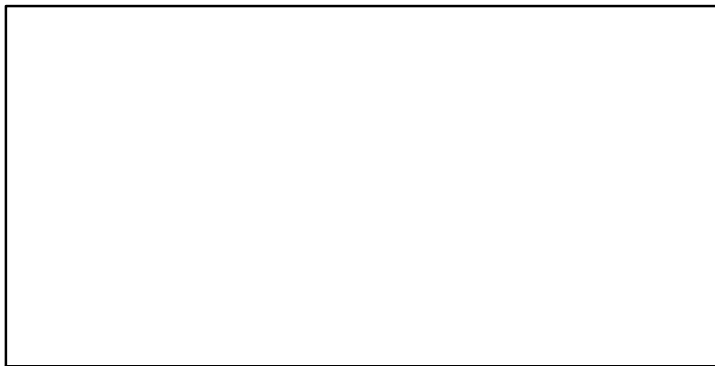
SSB*



TN *



F*



ER*



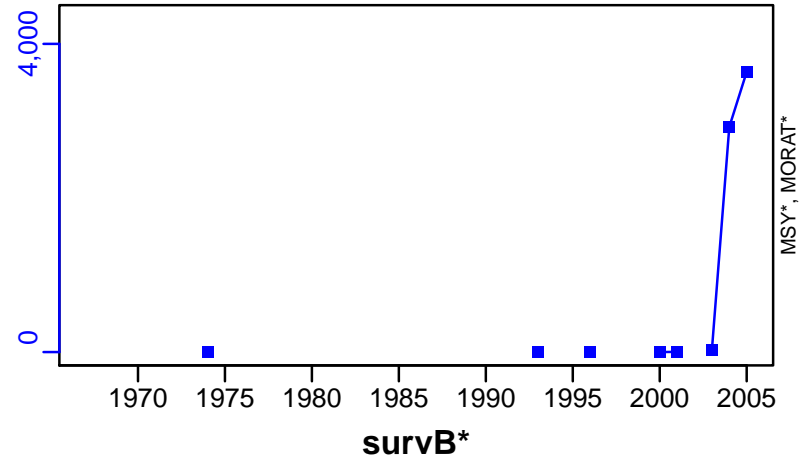
Recruits*



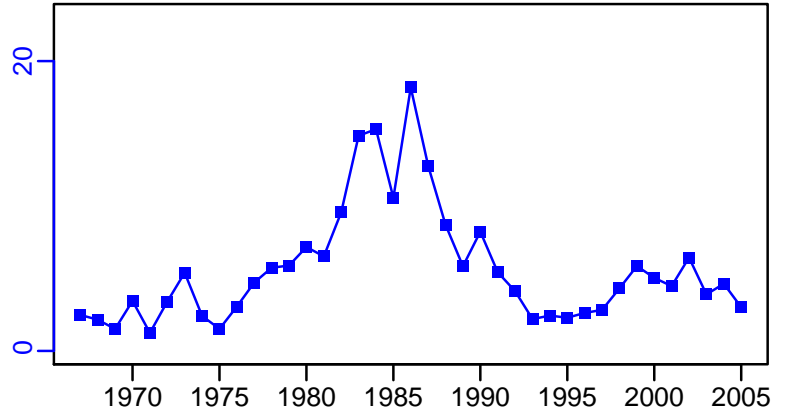
Winter skate Gulf of Maine / Cape Hatteras [WSKAT5YCHATT]

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

TAC*, Cpair*, Cadv*

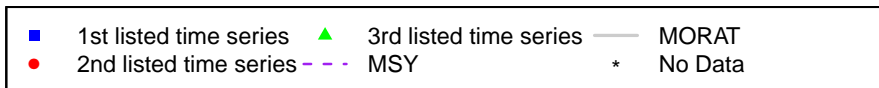


CPUE-kgpertow (1967-2005-SOSEBEE)



EFFORT*

CdivMSY*



Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

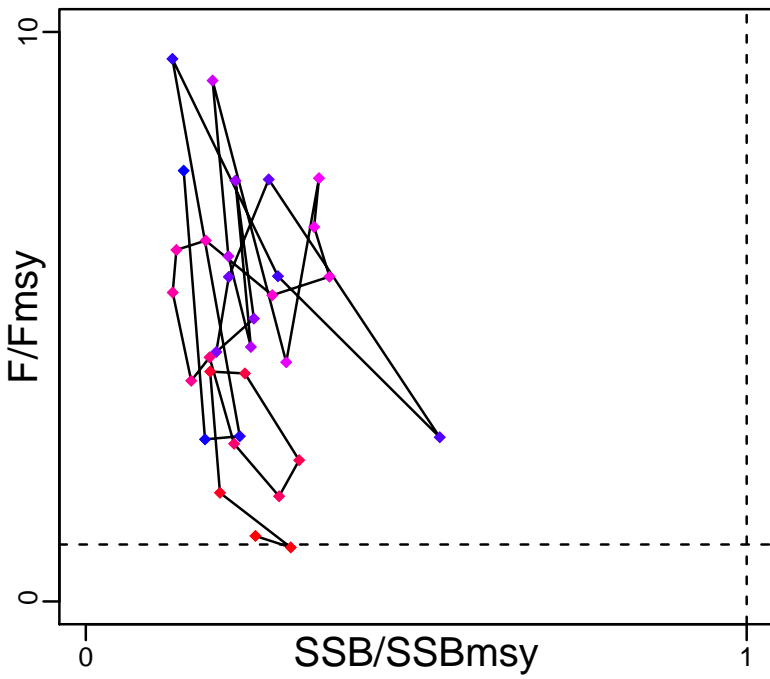
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLCCODGOM-1984-2016-SISIMP2021
Area	Cape Cod / Gulf of Maine
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	4640
Fmsy	Fmsy-1/yr	2016	0.273
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	1154
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	2320
Flim	Flim-1/yr	2016	0.273
ERlim	-	-	-

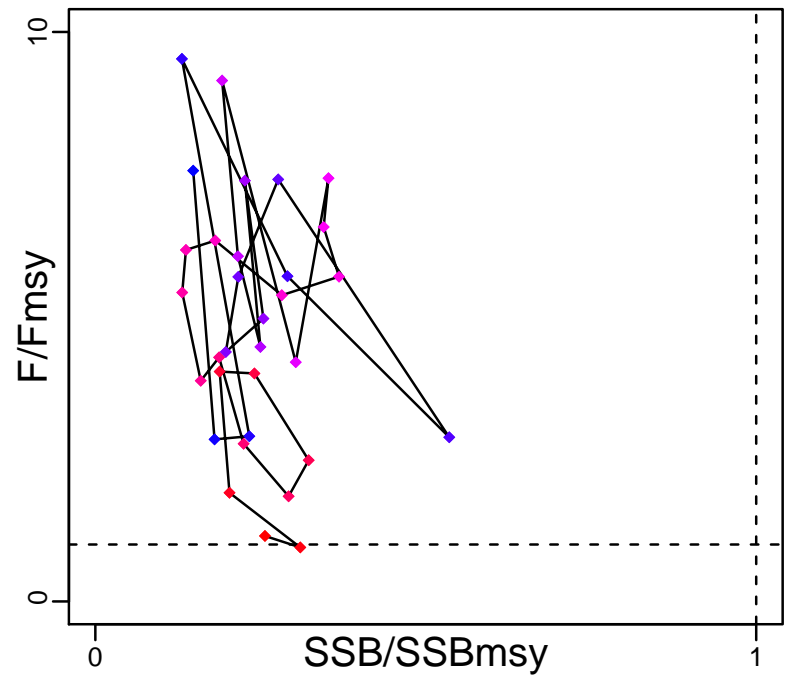
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	1191	-	-
TN	TN-E00	2008	16,900,000	-	-
R	R-E00	2016	10,165,000	-	1
F	F-1/yr	2016	0.314	-	-
ER	ER-ratio	2008	0.142	-	-
TC	TC-MT	2016	370		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.257		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	1.15		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

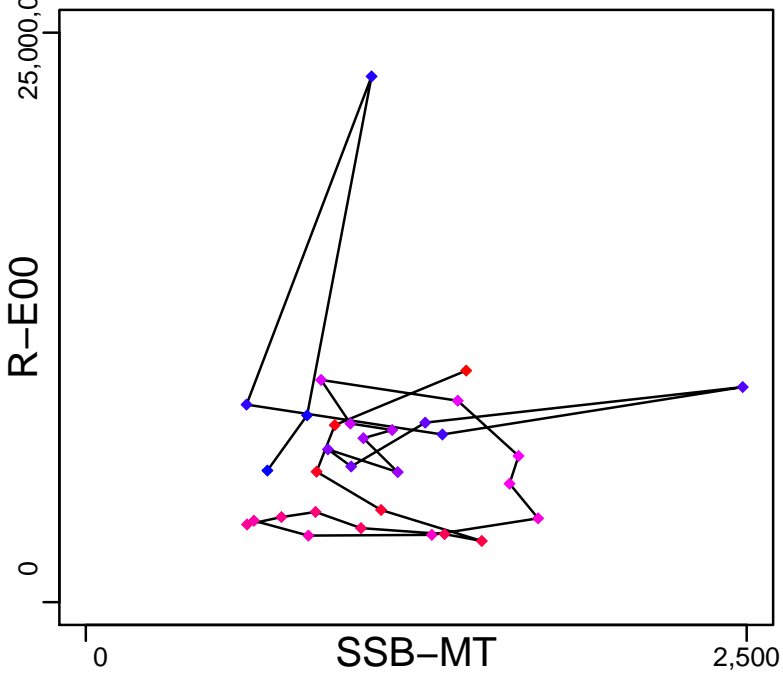
Kobe MSYpref (1984–2016–SISIMP2021)



Kobe MGTpref (1984–2016–SISIMP2021)



Spawner Recruit (1984–2016–SISIMP2021)



Production*

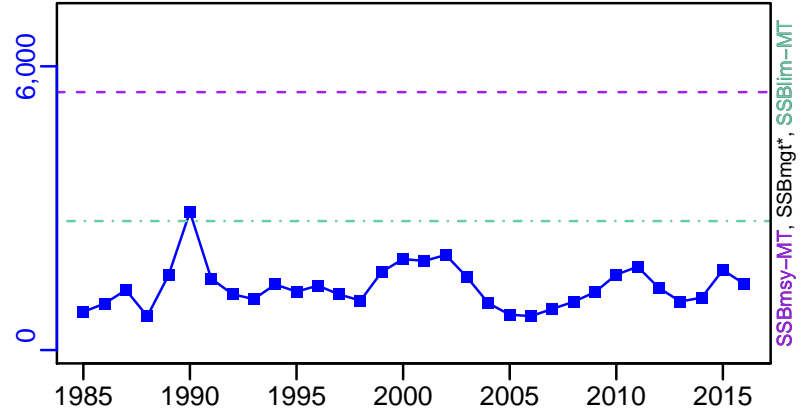
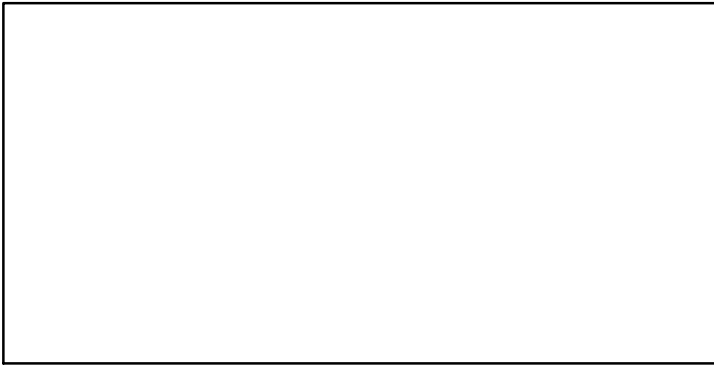


◆ Start Year ◆ End Year * No Data

Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

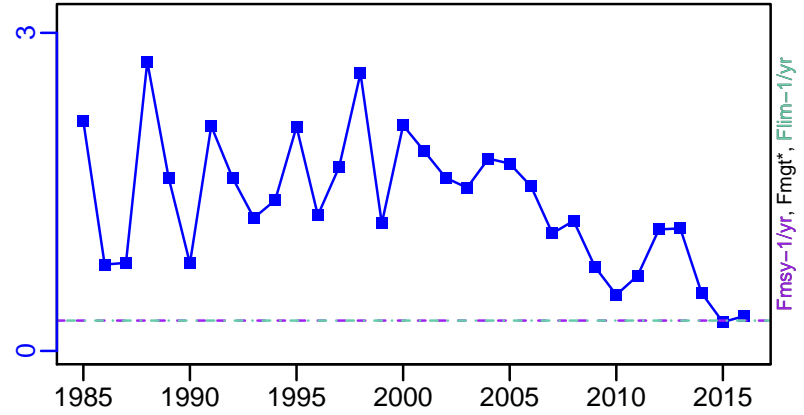
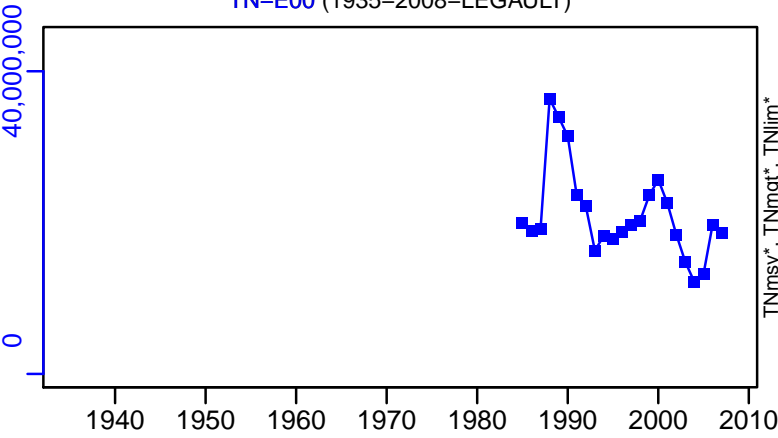
TB*

SSB-MT (1984–2016–SISIMP2021)



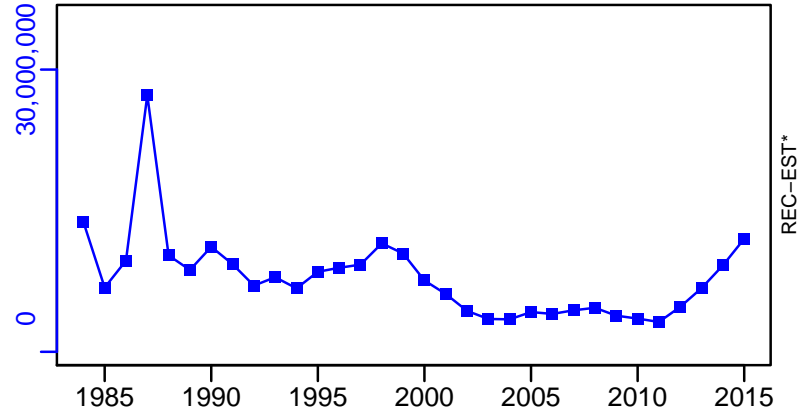
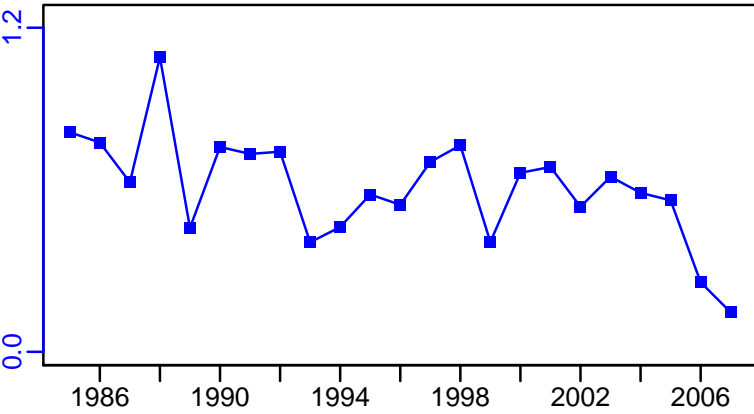
TN-E00 (1935–2008–LEGAULT)

F-1/yr (1984–2016–SISIMP2021)



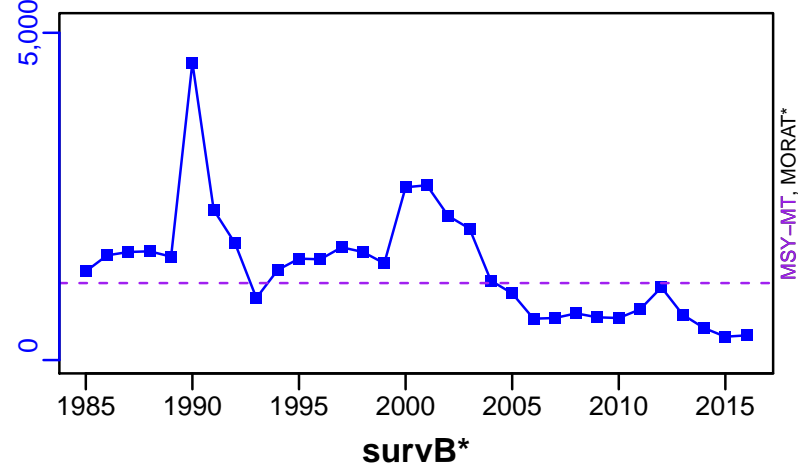
ER-ratio (1935–2008–LEGAULT)

R-E00 (1984–2016–SISIMP2021)



Yellowtail flounder Cape Cod / Gulf of Maine [YELLCCODGOM]

TC-MT, TL*, RecC* (1984–2016–SISIMP2021)



TAC*, Cpair*, Cadv*



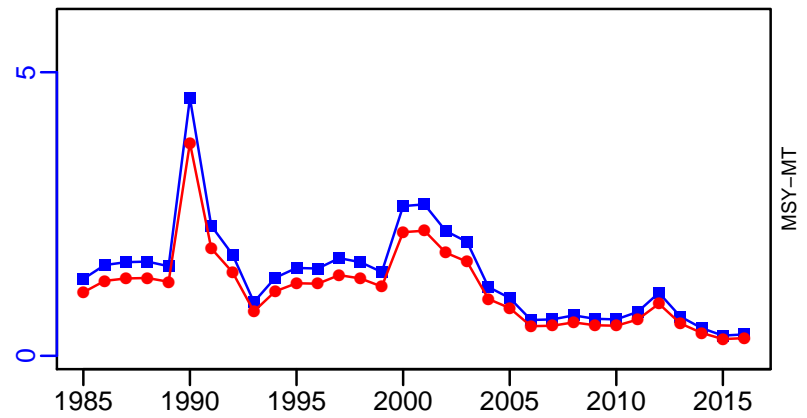
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1984–2016–SISIMP2021)



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

Yellowtail flounder Georges Bank [YELLGB]

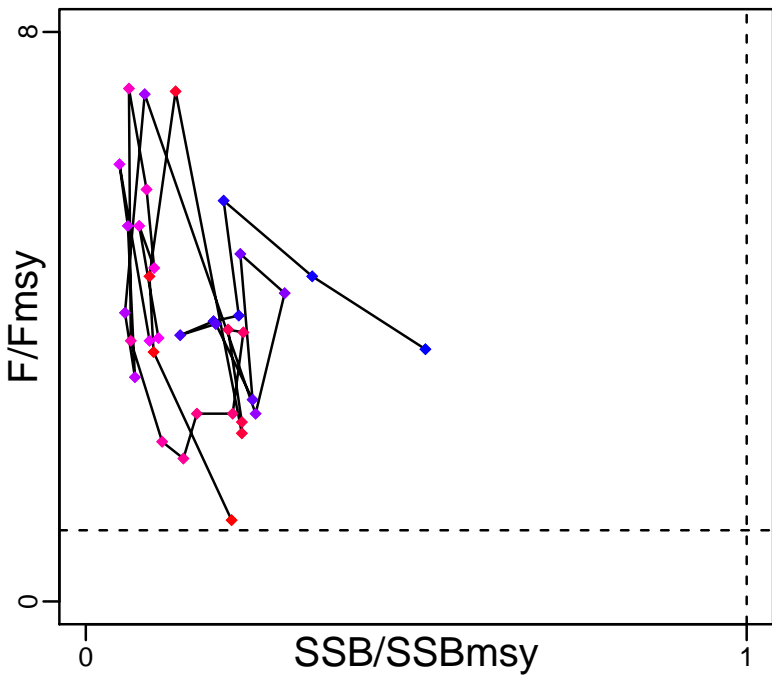
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLGB-1935-2017-SISIMP2021
Area	Georges Bank
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2008, 2015, 2016, 2017

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	-	-	-

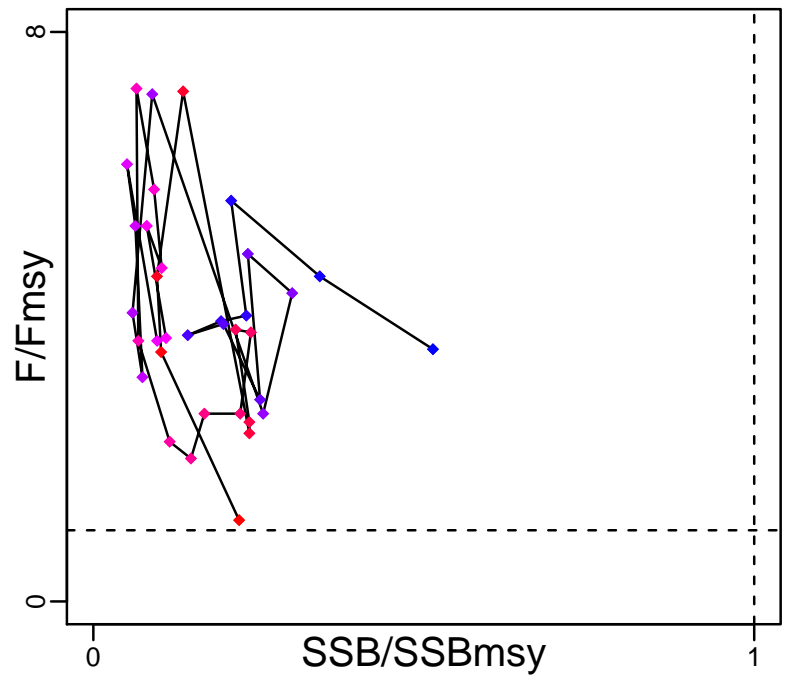
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2008	20,800	-	-
SSB	SSB-MT	2008	9530	-	2+
TN	-	-	-	-	-
R	R-E00	2008	19,100,000	-	1
F	F-1/yr	2008	0.29	-	4+
ER	ER-ratio	2008	0.118	-	-
TC	TC-MT	2017	95		
TL	TL-MT	2015	71		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2008	0.221		
F/Fmsy	F-1/yr/Fmsy-pr-1/yr	2008	1.142		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Georges Bank [YELLGB]

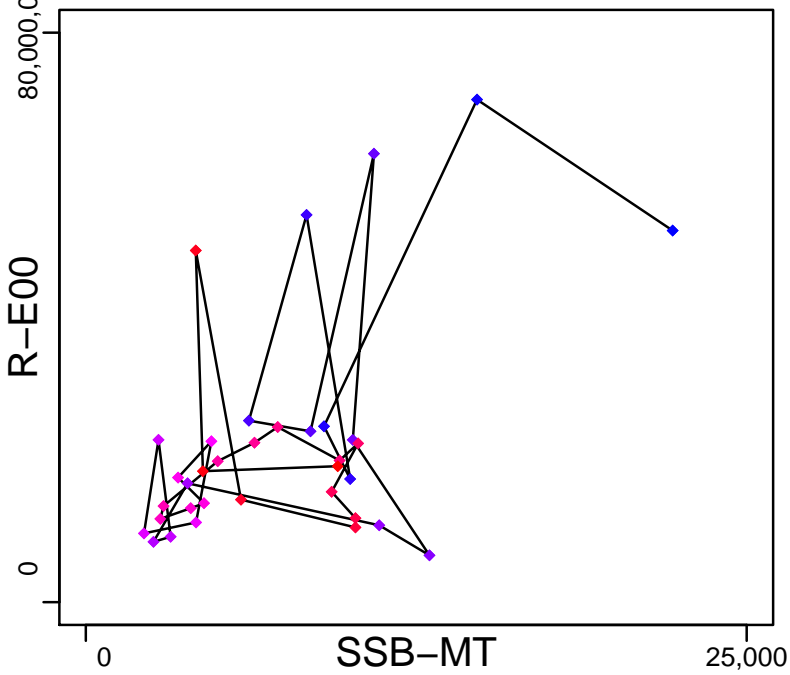
Kobe MSYpref (1935–2008–BAUM)



Kobe MGTpref (1935–2008–BAUM)



Spawner Recruit (1935–2008–BAUM)



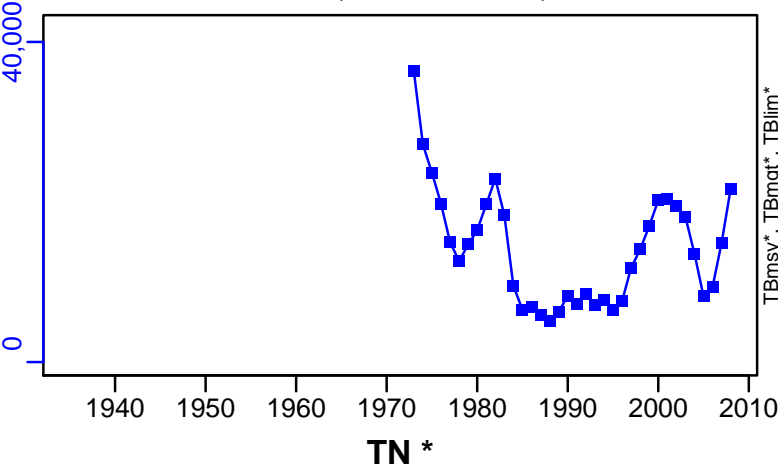
Production*



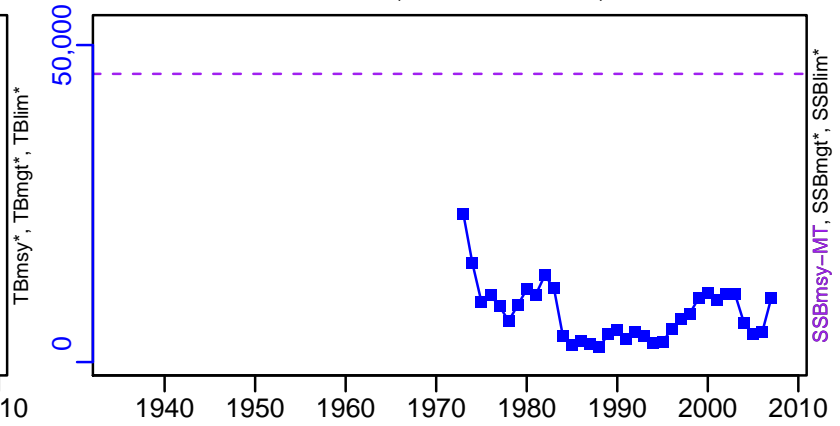
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Georges Bank [YELLGB]

TB-MT (1935–2008–BAUM)



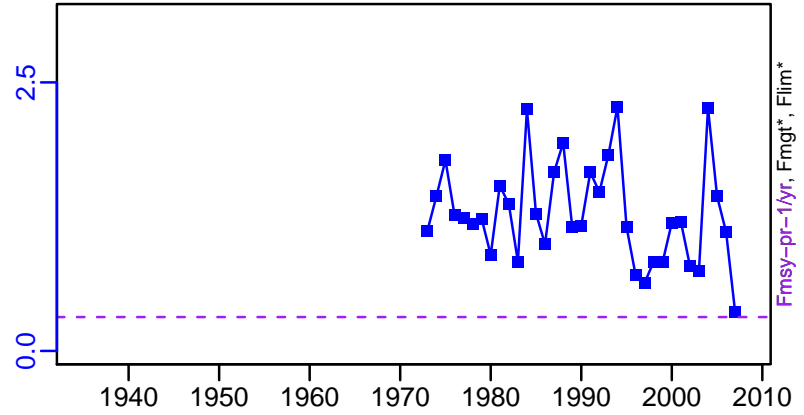
SSB-MT (1935–2008–BAUM)



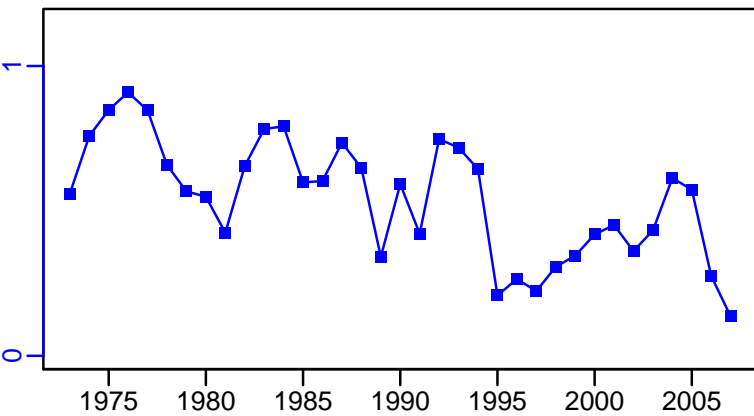
TN *



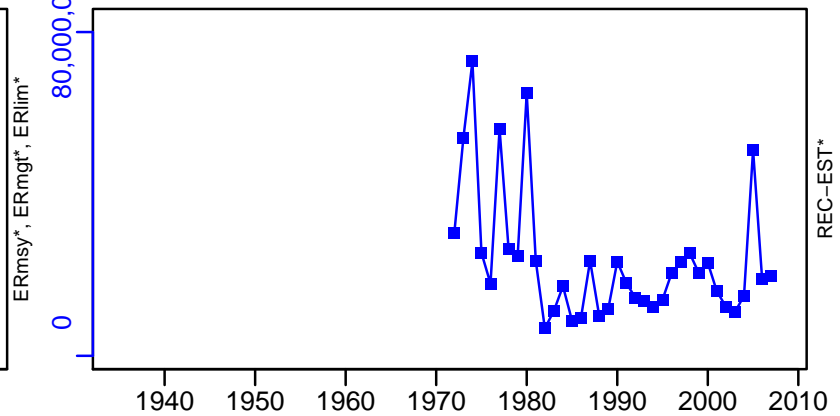
F-1/yr (1935–2008–BAUM)



ER-ratio (1935–2008–BAUM)



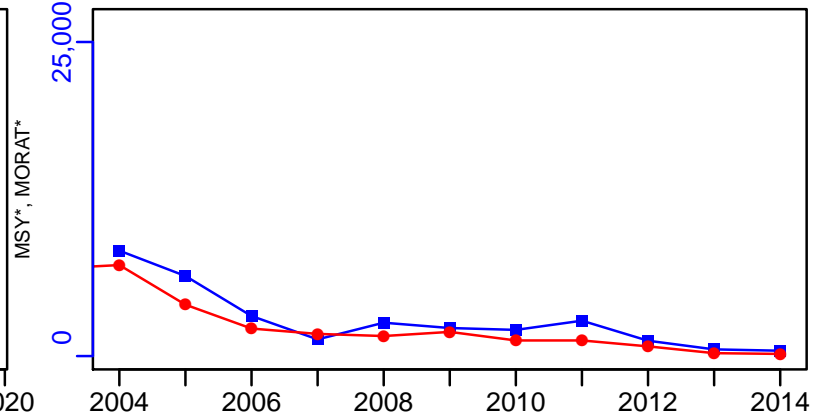
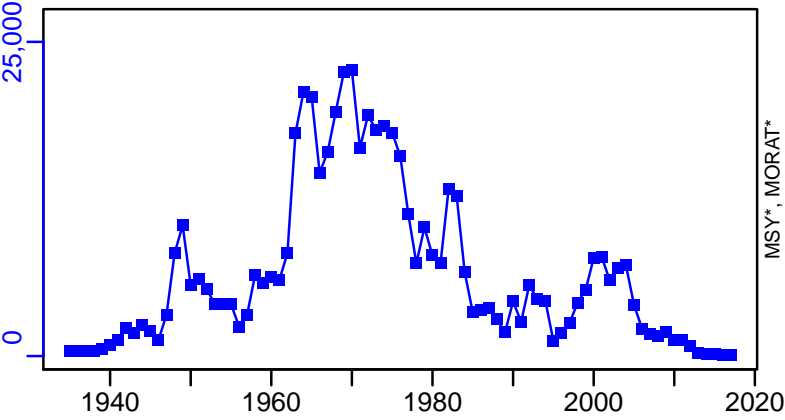
R-E00 (1935–2008–BAUM)



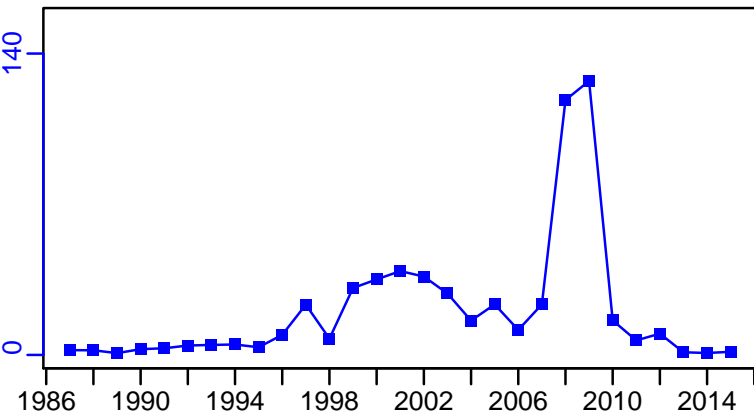
Yellowtail flounder Georges Bank [YELLGB]

TC-MT, TL*, RecC* (1935-2017-SISIMP2021)

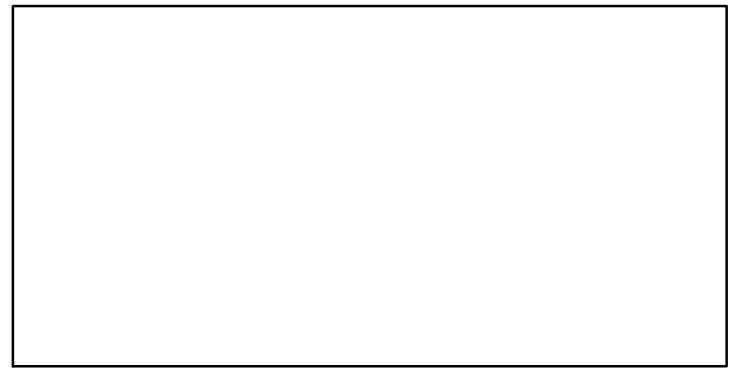
TAC-MT, Cpair-MT, Cadv* (1935-2015-WATSON)



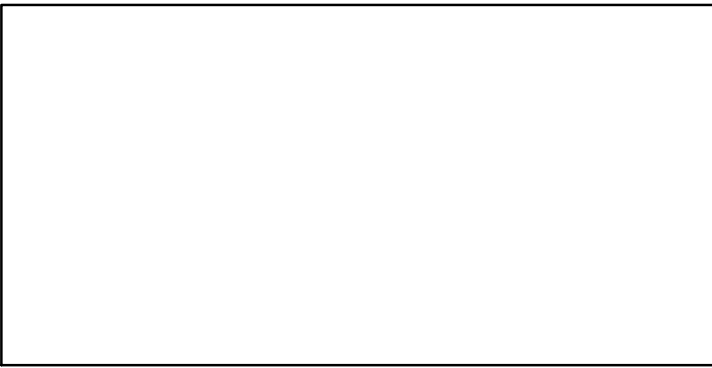
survB-kg/tow (1935-2015-WATSON)



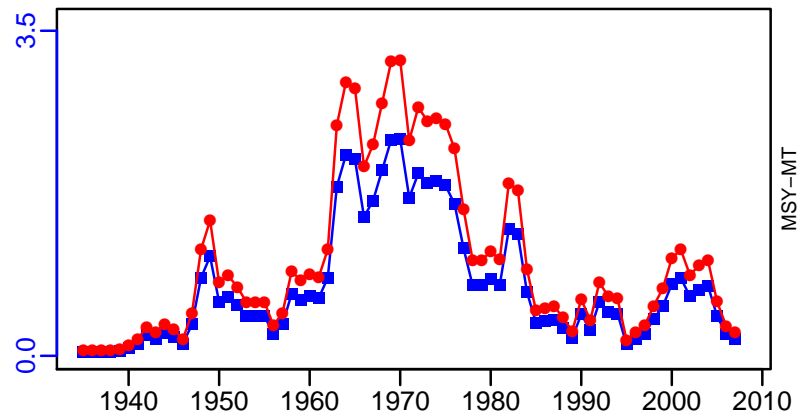
CPUE*



EFFORT*



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]

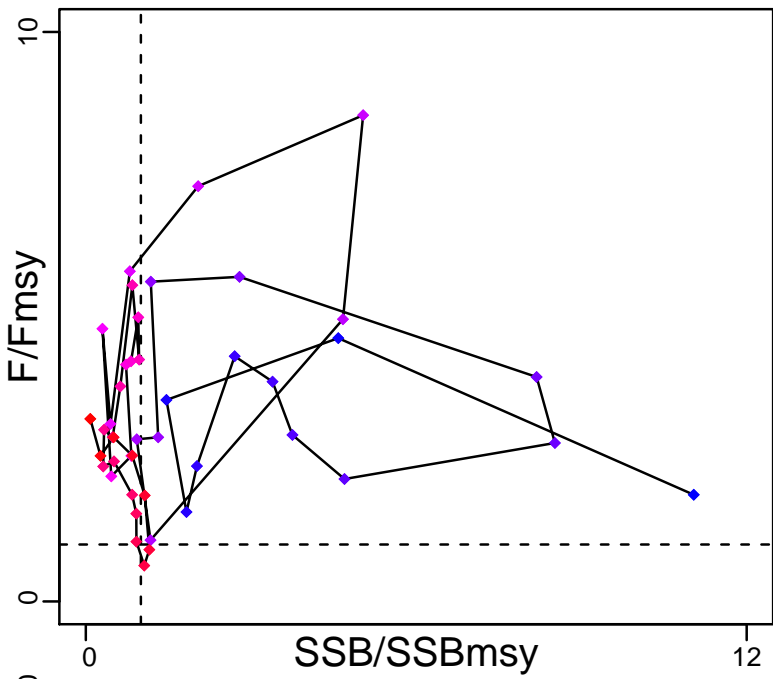
Metadata	
Scientific Name	Limanda ferruginea
Current Assess ID	NEFSC-YELLSNEMATL-1972-2016-SISIMP2021
Area	Southern New England /Mid Atlantic
Management Authority	National Marine Fisheries Service, US national management
Assessor	Northeast Fisheries Science Center
Asmts in RAM	2011, 2016, 2014

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	SSBmsy-MT	2016	1860
Fmsy	Fmsy-1/yr	2016	0.34
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	MSY-MT	2016	541
M	M-1/yr	2011	0.3
TBlim	-	-	-
SSBlim	SSBlim-MT	2016	930
Flim	Flim-1/yr	2016	0.34
ERlim	-	-	-

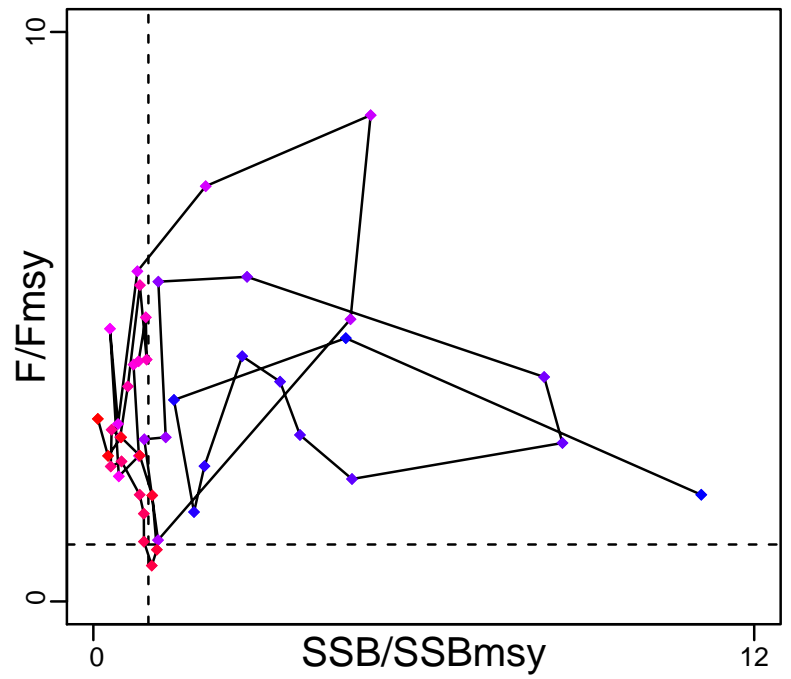
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2011	5310	-	-
SSB	SSB-MT	2016	152	-	-
TN	-	-	-	-	-
R	R-E00	2016	1,393,210	-	1
F	F-1/yr	2016	1.09	-	-
ER	ER-calc-ratio	2011	0.073	-	-
TC	TC-MT	2016	152		
TL	-	-	-		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSB-MT/SSBmsy-MT	2016	0.082		
F/Fmsy	F-1/yr/Fmsy-1/yr	2016	3.206		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

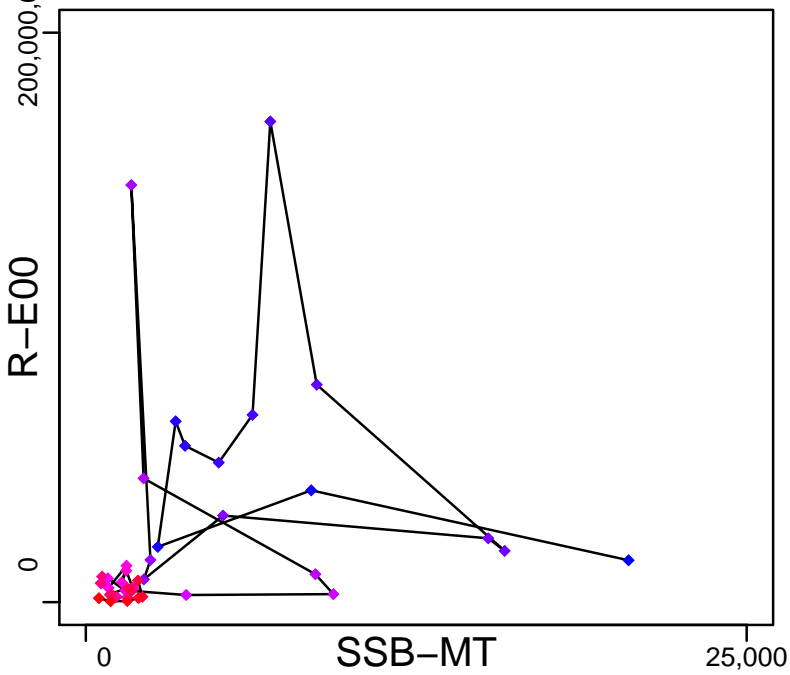
Kobe MSYpref (1972–2016–SISIMP2021)



Kobe MGTpref (1972–2016–SISIMP2021)



Spawner Recruit (1972–2016–SISIMP2021)



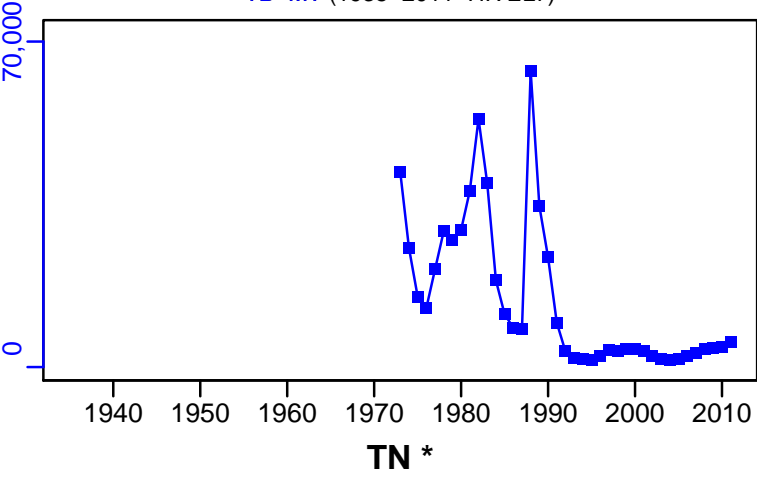
Production*



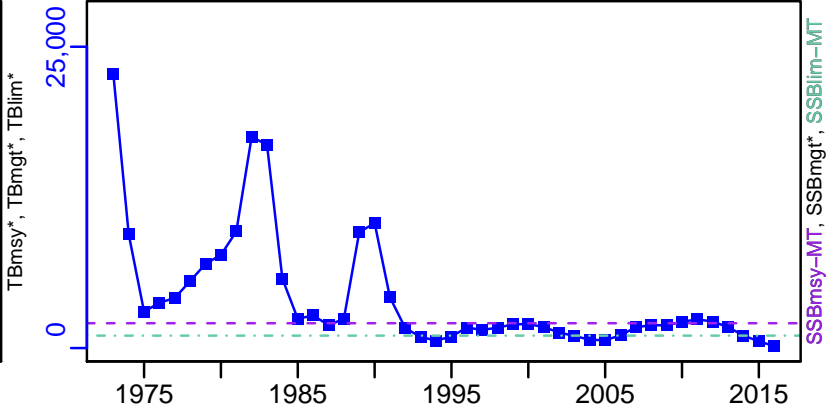
◆ Start Year ◆ End Year * No Data

Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

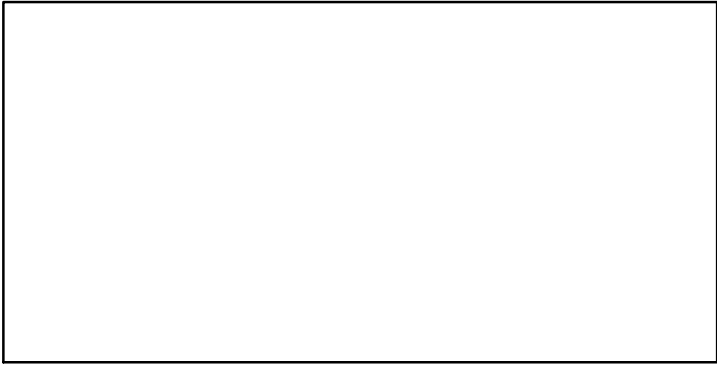
TB-MT (1935-2011-HIVELY)



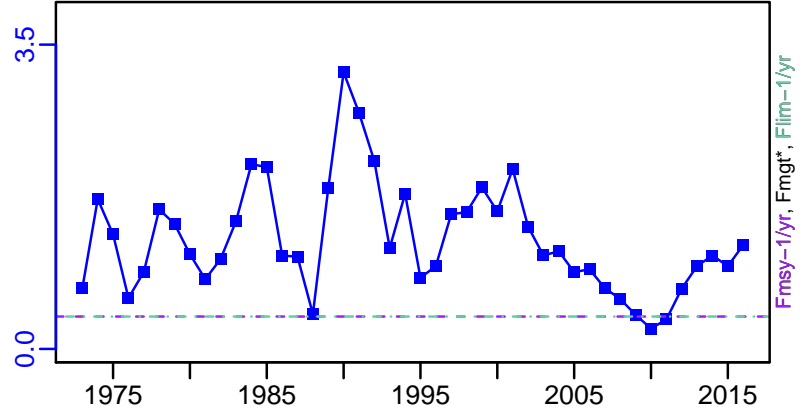
SSB-MT (1972-2016-SISIMP2021)



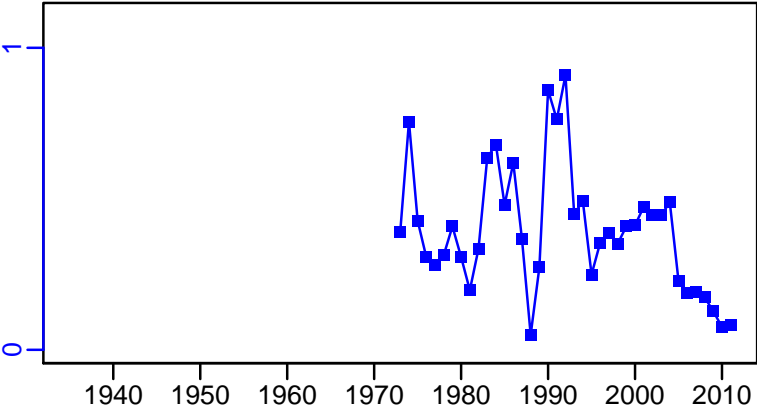
TN *



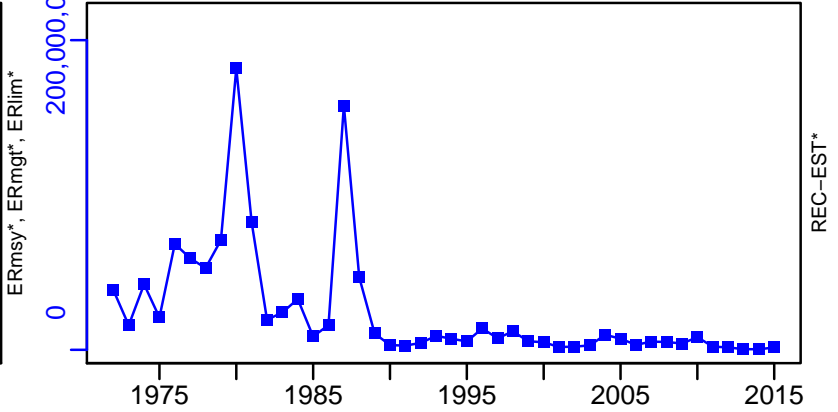
F-1/yr (1972-2016-SISIMP2021)



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



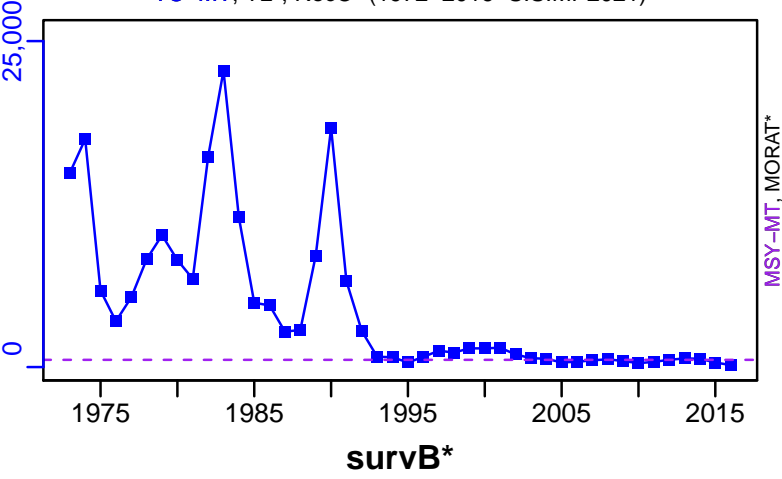
R-E00 (1972-2016-SISIMP2021)



Yellowtail flounder Southern New England /Mid Atlantic [YELLSNEMATL]

TC-MT, TL*, RecC* (1972-2016-SISIMP2021)

TAC*, Cpair*, Cadv*



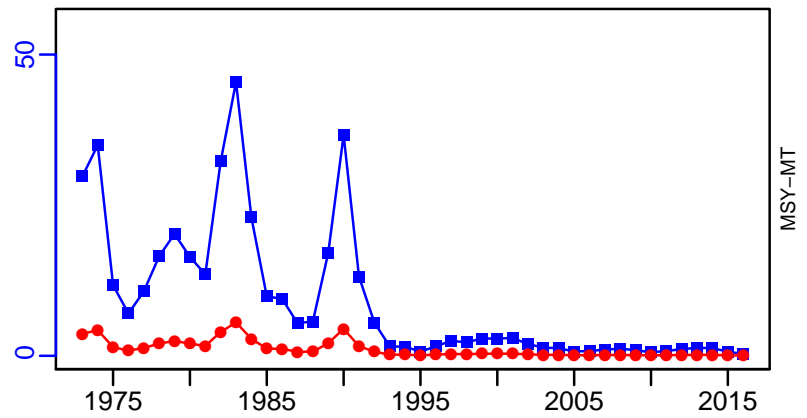
CPUE*



EFFORT*



TC-MT/MSY-MT, CdivMEANC-ratio, (1972-2016-SISIMP2021)



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