

# Europe non EU Stocks

## v4.491 (Dec-21-2019)

Not present Present Preferred

Stock	B/Bmsy	Time Series Types		
		U/Umsy	B/Bmgt	U/Umgt
1. BLINGVa-XIV [Blue ling ICES 5a-14]	TB SSB	ER F	TB SSB	ER F
2. CAPEIIa-V-XIV [Capelin ICES 2a-5-14]	TB SSB	ER F	TB SSB	ER F
3. CAPENOR [Capelin Barents Sea]	TB SSB	ER F	TB SSB	ER F
4. COD1f-XIV [Atlantic cod NAFO 1f and ICES 14]	TB SSB	ER F	TB SSB	ER F
5. CODFABNK [Atlantic cod Faroe Bank]	TB SSB	ER F	TB SSB	ER F
6. CODFAPL [Atlantic cod Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
7. CODICE [Atlantic cod Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
8. CODNEAR [Atlantic cod North-East Arctic]	TB SSB	ER F	TB SSB	ER F
9. CODNEARNCW [Atlantic cod North-East Arctic (Norwegian coastal waters)]	TB SSB	ER F	TB SSB	ER F
10. CUSKI-II [Tusk North-East Arctic]	TB SSB	ER F	TB SSB	ER F
11. GHALNEAR [Greenland halibut North-East Arctic]	TB SSB	ER F	TB SSB	ER F
12. GOLDREDNEAR [Golden redfish North-East Arctic]	TB SSB	ER F	TB SSB	ER F
13. GSSMELTVa-XIV [Greater silver smelt ICES 5a-14]	TB SSB	ER F	TB SSB	ER F
14. GSSMELTVb-VIa [Greater silver smelt ICES 5b-4a]	TB SSB	ER F	TB SSB	ER F
15. HADFAPL [Haddock Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
16. HADICE [Haddock Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
17. HADNEAR [Haddock North-East Arctic]	TB SSB	ER F	TB SSB	ER F
18. HERRIsum [Herring Iceland (Summer spawners)]	TB SSB	ER F	TB SSB	ER F
19. HERRNORSS [Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners)]	TB SSB	ER F	TB SSB	ER F
20. LINGI-II [Ling North-East Arctic]	TB SSB	ER F	TB SSB	ER F
21. LINGVa [Ling Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
22. LINGVb [Ling Faroe Grounds]	TB SSB	ER F	TB SSB	ER F
23. PANDALI-II [Northern shrimp North-East Arctic]	TB SSB	ER F	TB SSB	ER F
24. POLLFAPL [Pollock Faroe Plateau]	TB SSB	ER F	TB SSB	ER F
25. POLLIEG [Pollock Iceland Grounds]	TB SSB	ER F	TB SSB	ER F
26. POLLNEAR [Pollock North-East Arctic]	TB SSB	ER F	TB SSB	ER F
27. REDDEEPDP-1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep)]	TB SSB	ER F	TB SSB	ER F
28. REDDEEPI-II [Deepwater redfish North-East Arctic]	TB SSB	ER F	TB SSB	ER F
29. REDDEEPSH1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (shallow)]	TB SSB	ER F	TB SSB	ER F
30. REDDEEPPVa-XIV [Beaked redfish ICES 5a-14]	TB SSB	ER F	TB SSB	ER F

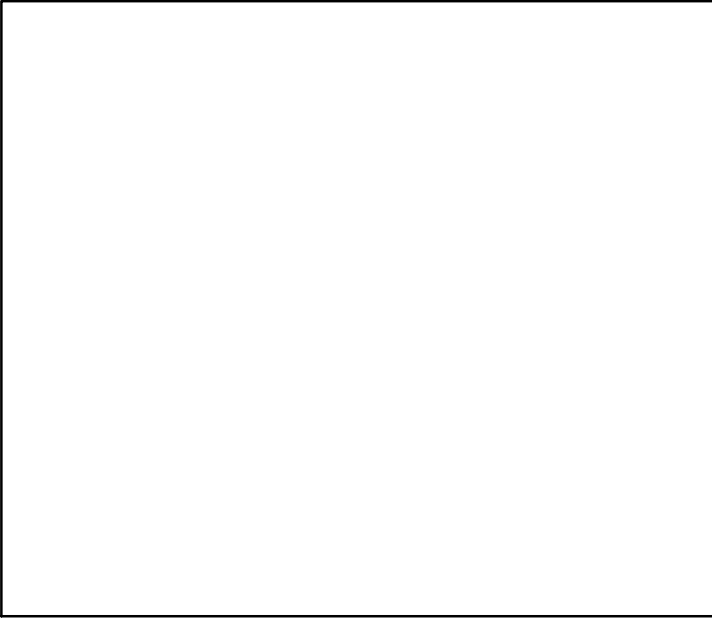
## Blue ling ICES 5a-14 [BLINGVa-XIV]

Metadata	
<b>Scientific Name</b>	Molva dypterygia
<b>Current Assess ID</b>	WGDEEP-BLINGVa-XIV-2000-2017-ICESIMP2018
<b>Area</b>	ICES 5a-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2016, 2017

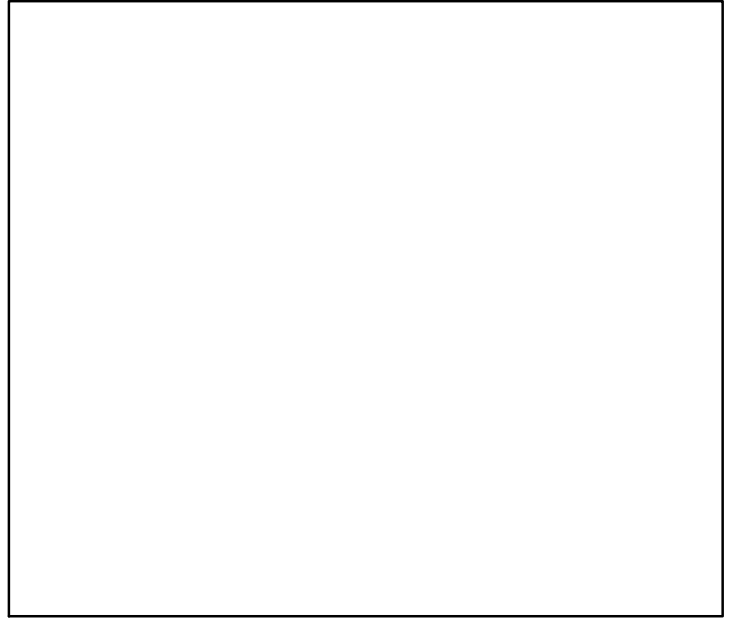
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2016	0.834	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	636		
TL	TL-MT	2016	1810		
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

Blue ling ICES 5a-14 [BLINGVa-XIV]

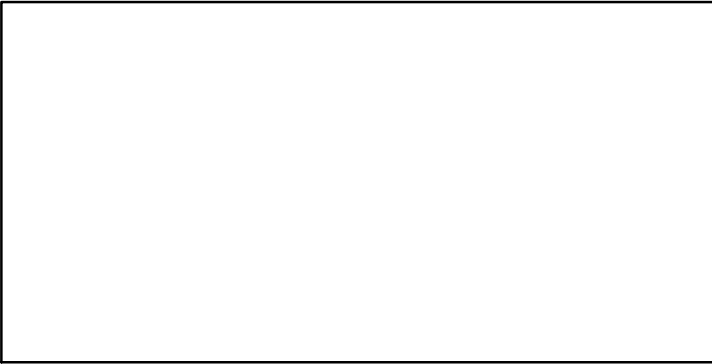
TB\*



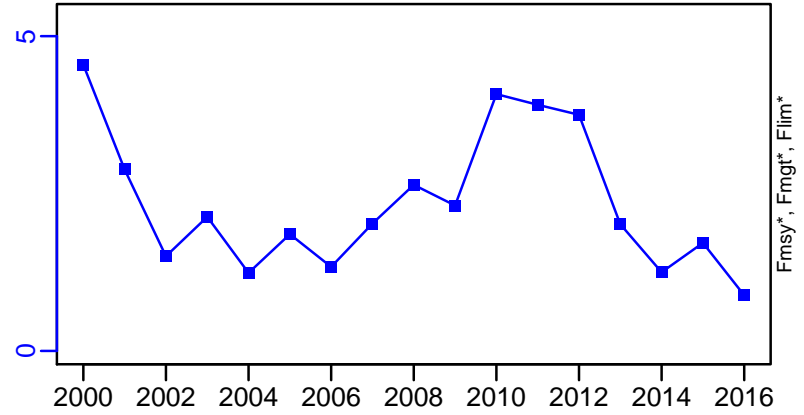
SSB\*



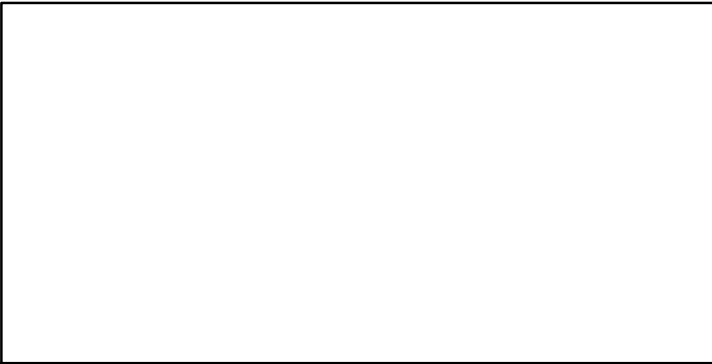
TN \*



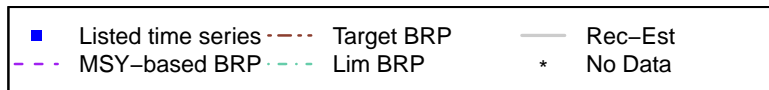
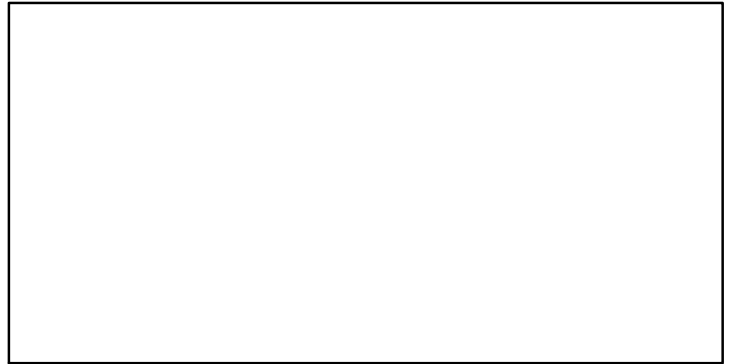
F-1/yr (2000-2016-ICESIMP2018)



ER\*



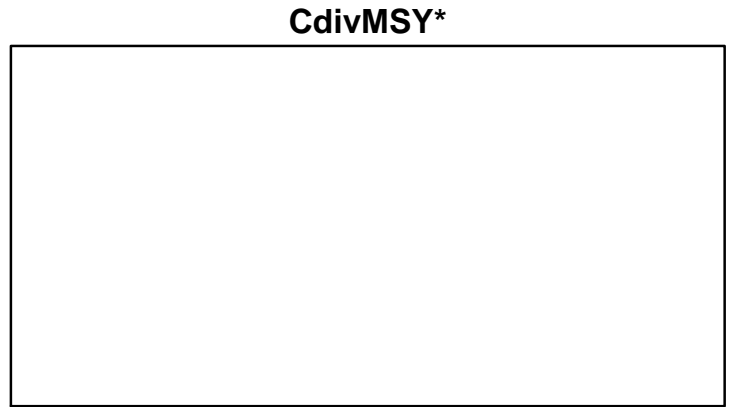
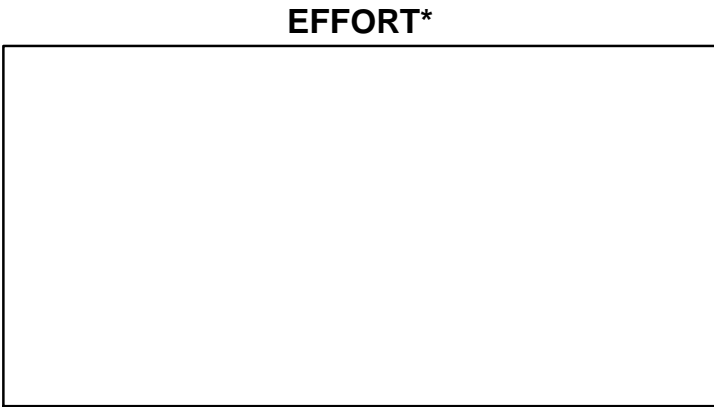
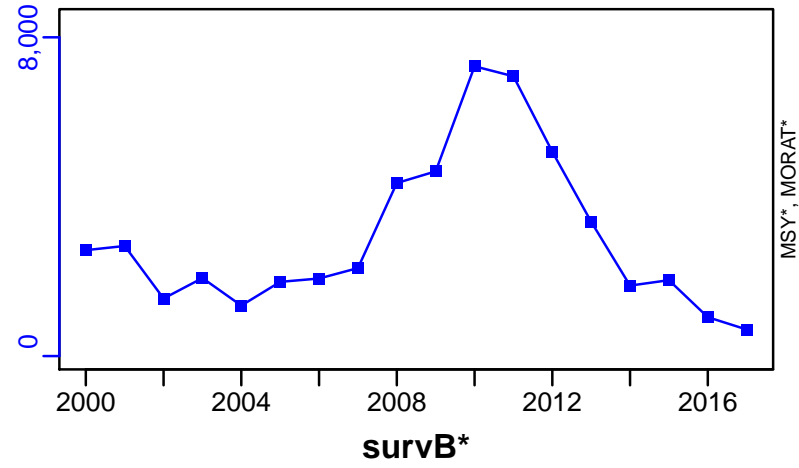
Recruits\*



# Blue ling ICES 5a-14 [BLINGVa-XIV]

TC-MT, TL\*, RecC\* (2000-2017-ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



## Capelin ICES 2a-5-14 [CAPEIIa-V-XIV]

Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	NWWG-CAPEIIa-V-XIV-1979-2017-ICESIMP2018
<b>Area</b>	ICES 2a-5-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2010, 2014, 2016, 2015, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2017	150,000
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	150,000
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2017	355,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$5.4 \times 10^9$	-	1
F	-	-	-	-	-
ER	ER-ratio	2010	0.016	-	-
TC	TC-MT	2017	$3 \times 10^5$		
TL	TL-MT	2017	$3 \times 10^5$		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2017	2.367		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

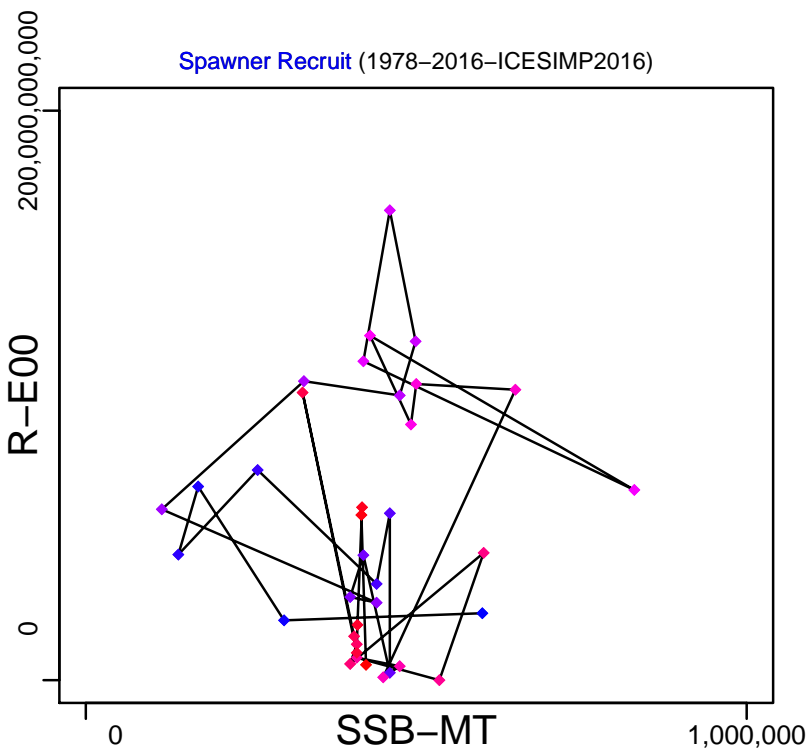
**Kobe MSY\***



**Kobe MGT\***



Spawner Recruit (1978-2016-ICESIMP2016)



**Production\***



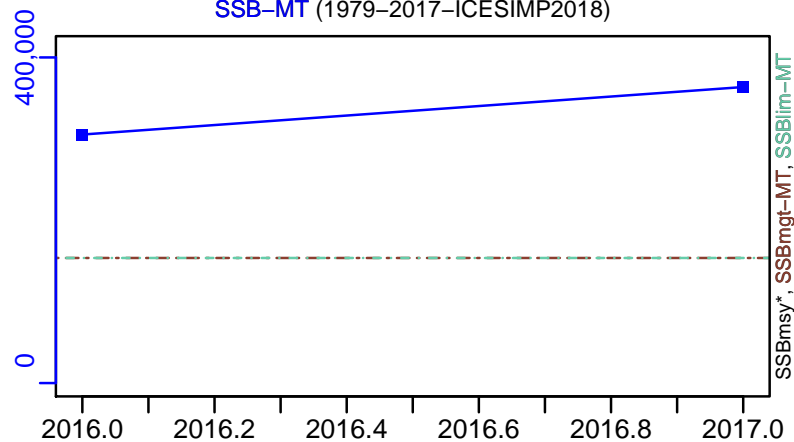
◆ Start Year ◆ End Year \* No Data

# Capelin ICES 2a-5-14 [CAPElla-V-XIV]

TB\*



SSB-MT (1979-2017-ICESIMP2018)



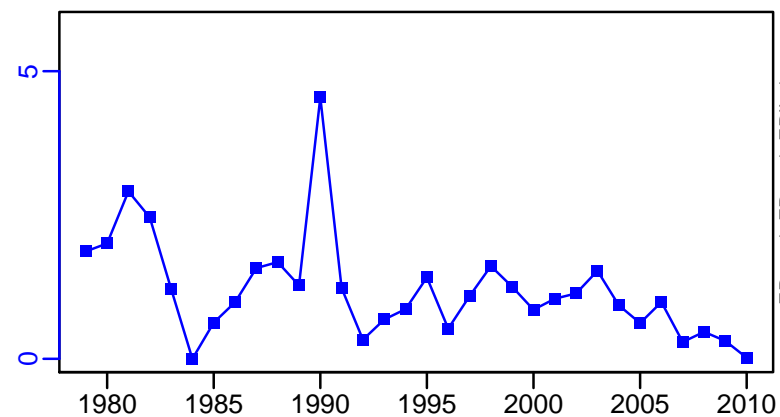
TN \*



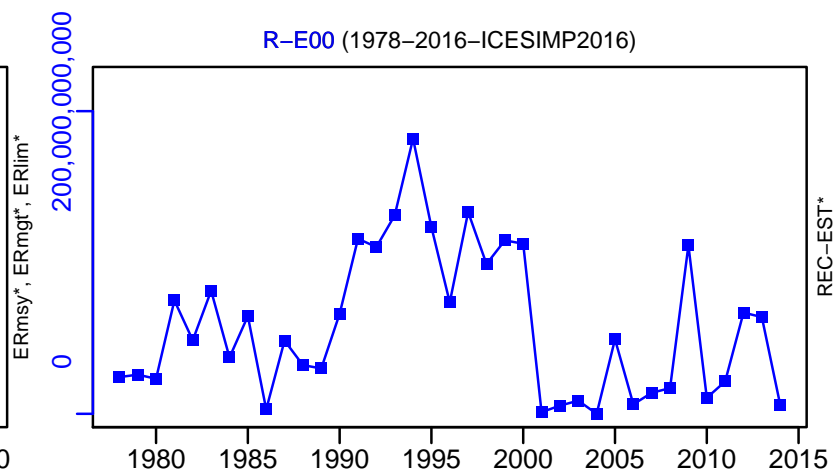
F\*



ER-ratio (1977-2010-NEUBAUER)



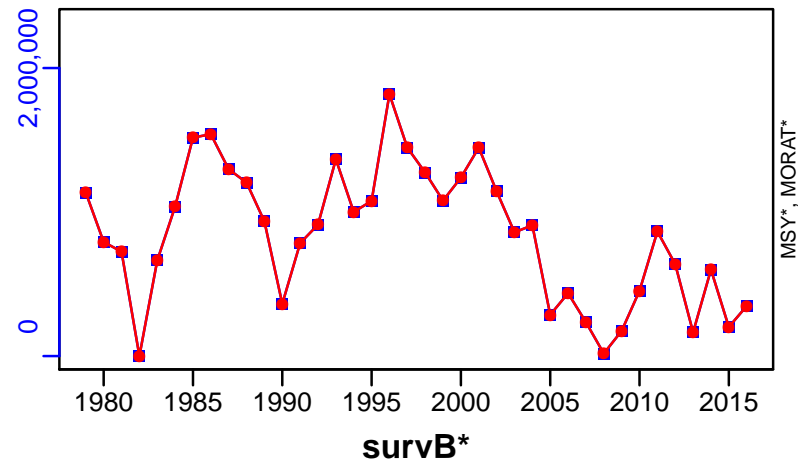
R-E00 (1978-2016-ICESIMP2016)





Capelin ICES 2a-5-14 [CAPElla-V-XIV]

TC-MT, TL-MT, RecC\* (1979-2017-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



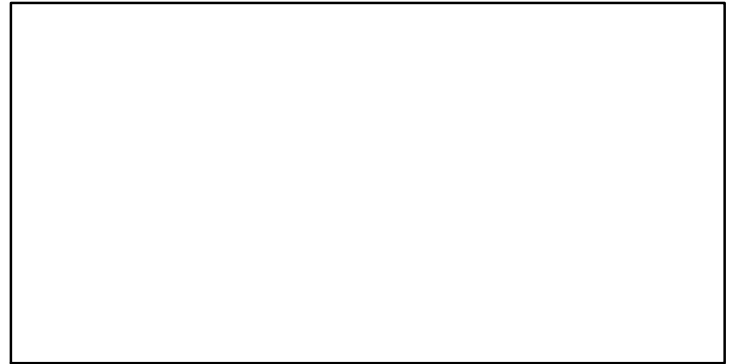
CPUE\*



EFFORT\*



CdivMSY\*



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

## Capelin Barents Sea [CAPENOR]

Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	AFWG-CAPENOR-1972-2017-ICESIMP2018
<b>Area</b>	Barents Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2007, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	$2 \times 10^5$
Flim	-	-	-
ERlim	-	-	-

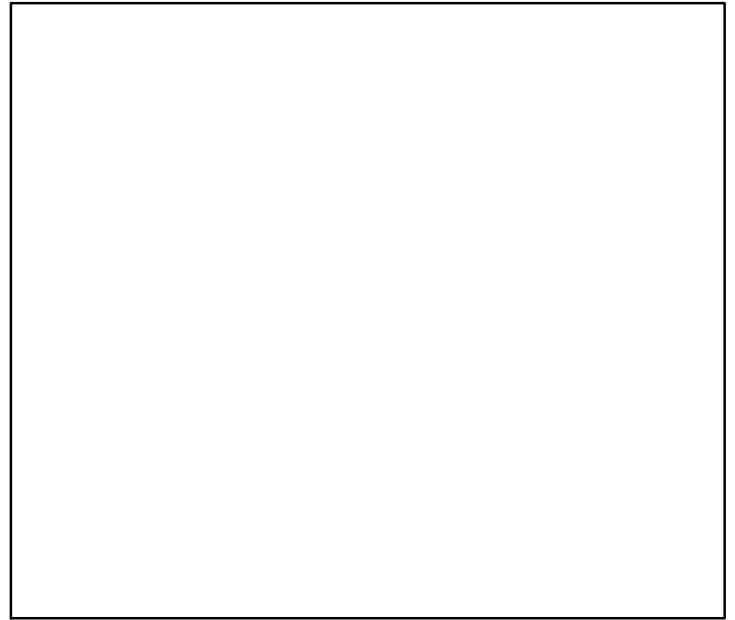
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2017	2,510,000	Both	-
SSB	SSB-MT	2017	1,720,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$3.2 \times 10^{10}$	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2017	0	-	-
TC	-	-	-		
TL	TL-MT	2017	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Capelin Barents Sea [CAPENOR]

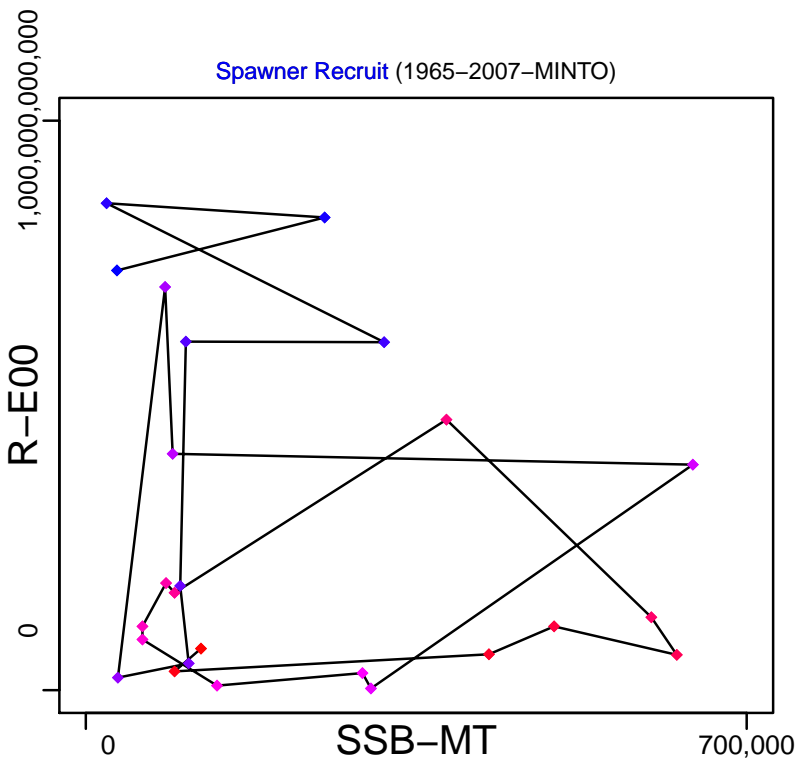
Kobe MSY\*



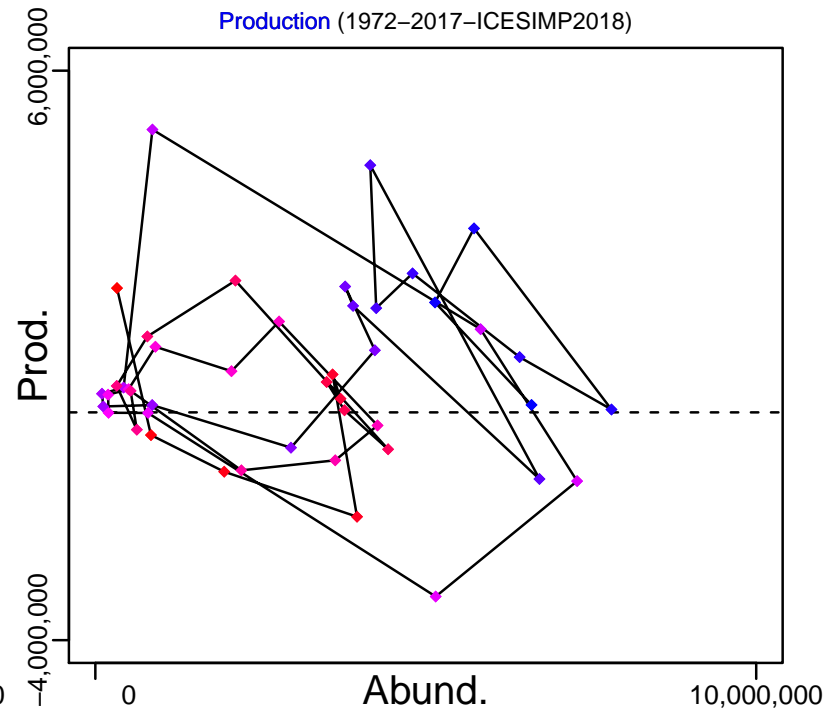
Kobe MGT\*



Spawner Recruit (1965–2007–MINTO)



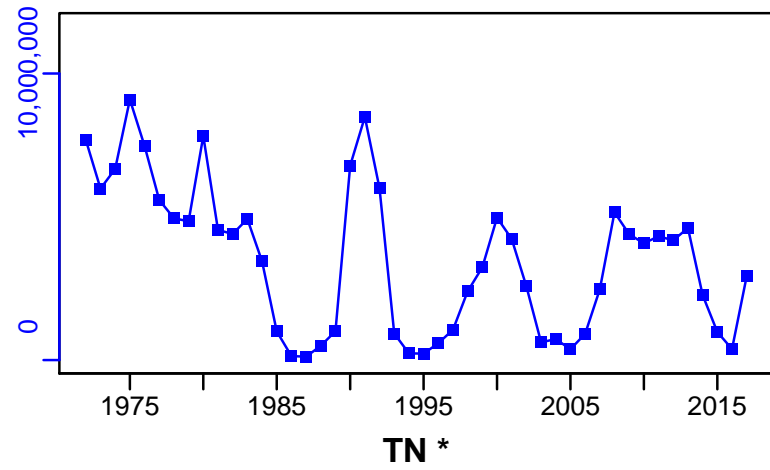
Production (1972–2017–ICESIMP2018)



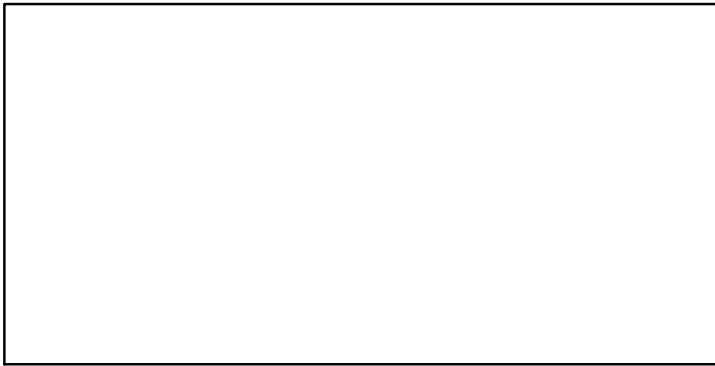
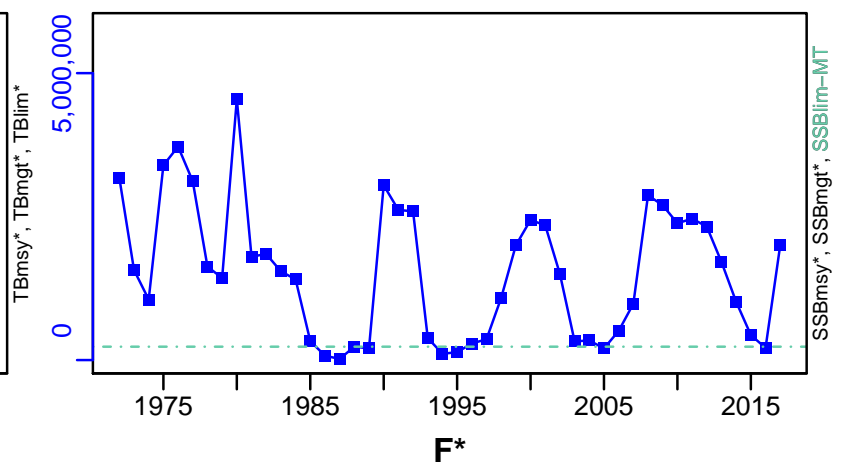
◆ Start Year ◆ End Year \* No Data

# Capelin Barents Sea [CAPENOR]

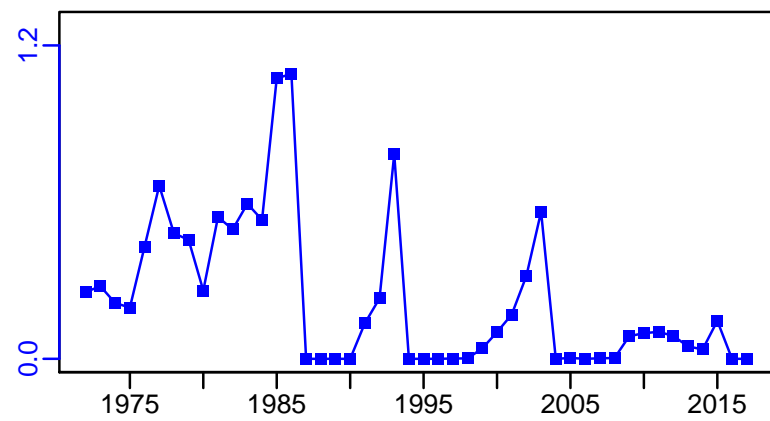
TB-MT (1972–2017–ICESIMP2018)



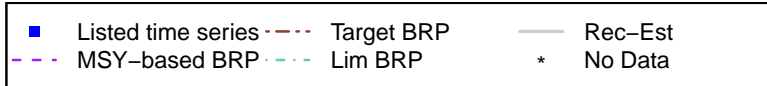
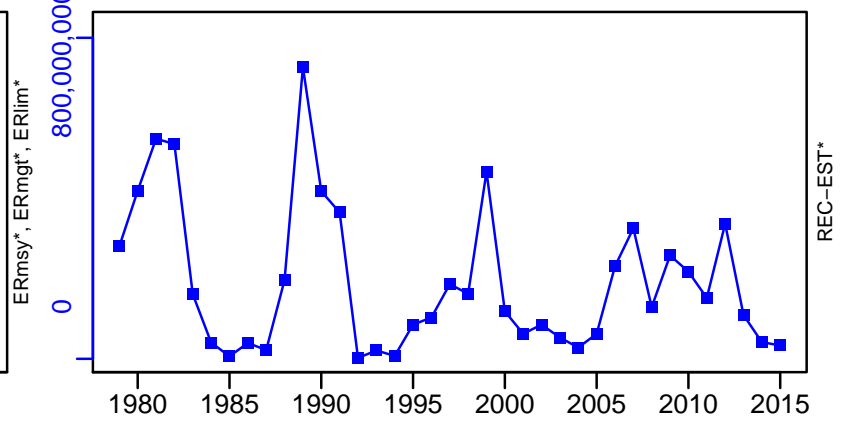
SSB-MT (1972–2017–ICESIMP2018)



ER-calc-ratio (1972–2017–ICESIMP2018)

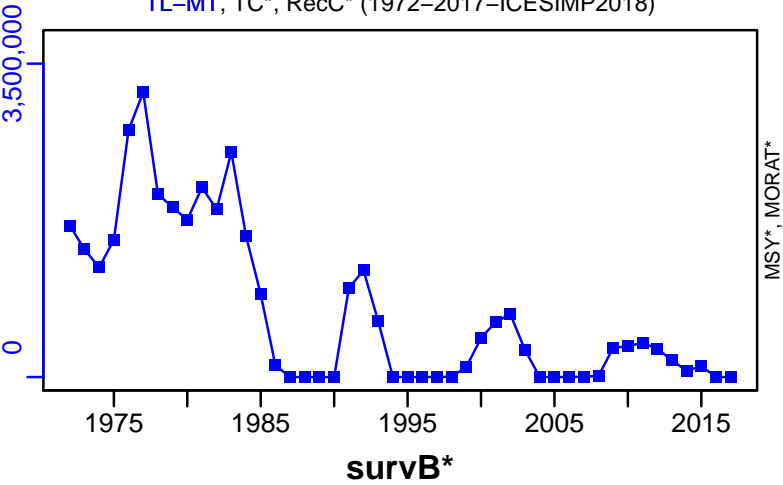


R-E00 (1972–2016–ICESIMP2018)



Capelin Barents Sea [CAPENOR]

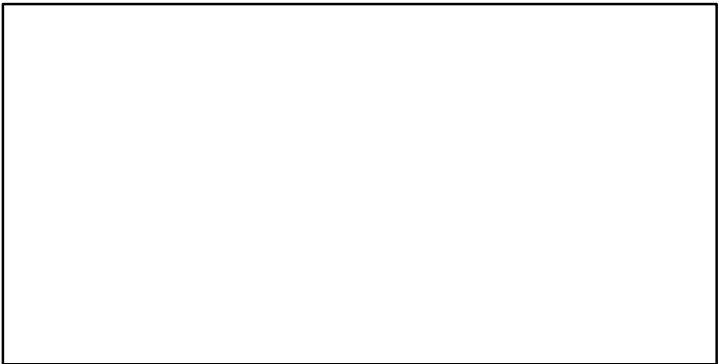
TL-MT, TC\*, RecC\* (1972-2017-ICESIMP2018)



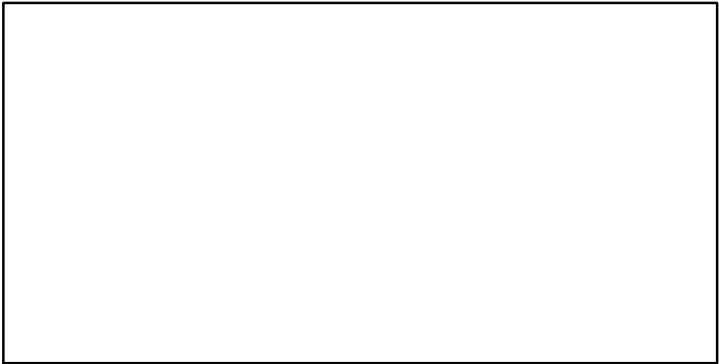
TAC\*, Cpair\*, Cadv\*



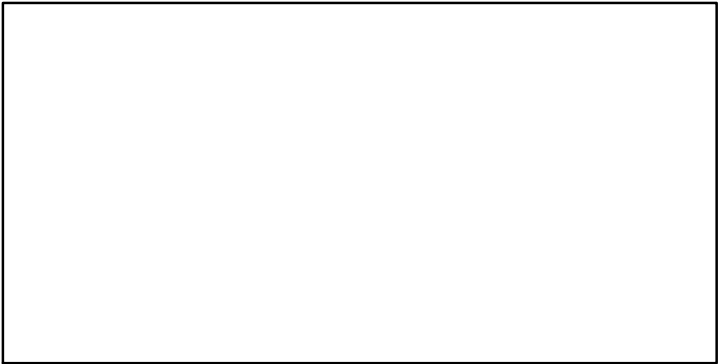
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod NAFO 1f and ICES 14 [COD1f-XIV]

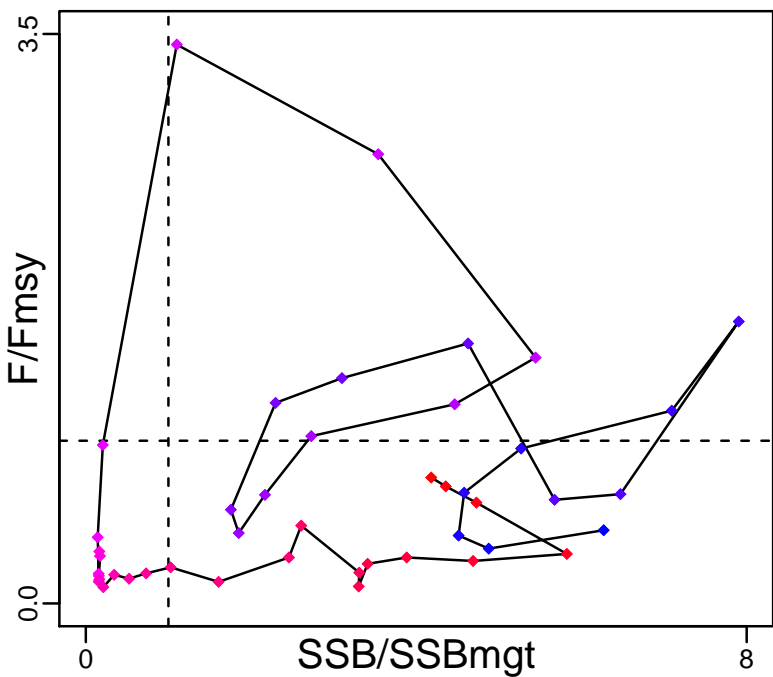
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-COD1f-XIV-1972-2018-ICESIMP2018
<b>Area</b>	NAFO 1f and ICES 14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.46
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	14,803
<b>Fmgt</b>	Fmgt-1/yr	2018	1.33
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	10,354
<b>Flim</b>	Flim-1/yr	2018	2.34
<b>ERlim</b>	-	-	-

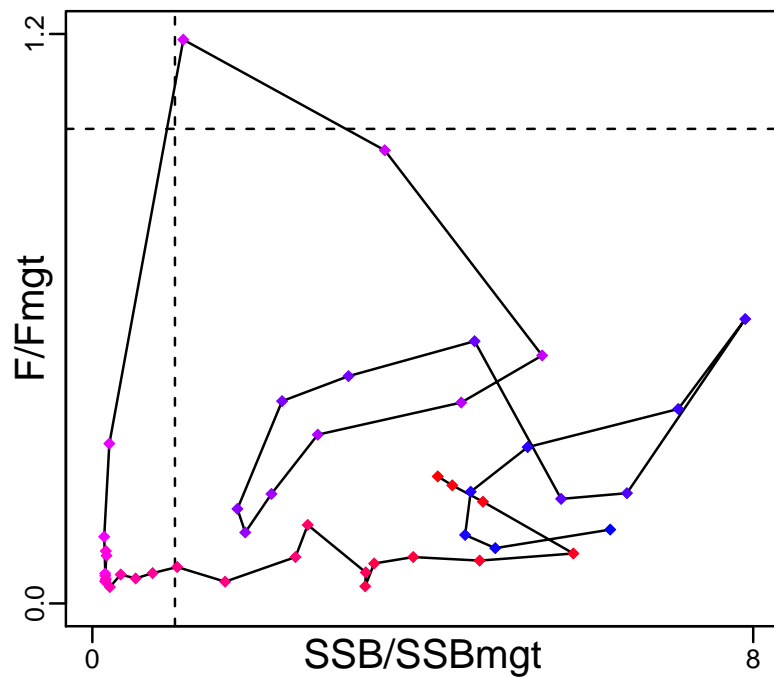
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	81,200	Both	-
<b>SSB</b>	SSB-MT	2018	40,600	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	3,480,000	-	1
<b>F</b>	F-1/yr	2018	0.356	-	5 to 10
<b>ER</b>	ER-calc-ratio	2018	0.201	-	-
<b>TC</b>	TC-MT	2016	14,800		
<b>TL</b>	TL-MT	2018	16,300		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	0.774		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	2.743		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	0.268		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod NAFO 1f and ICES 14 [COD1f-XIV]

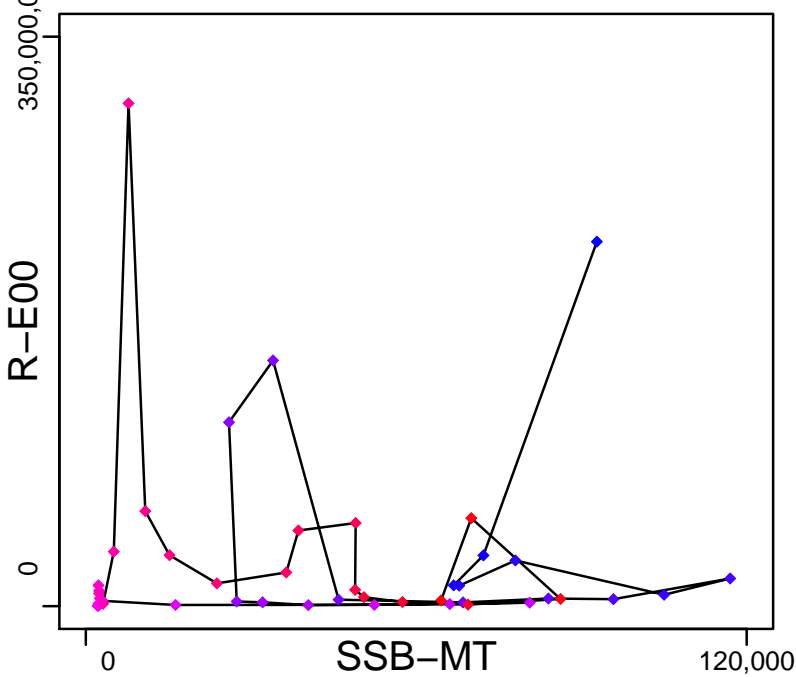
Kobe MSYpref (1972–2018–ICESIMP2018)



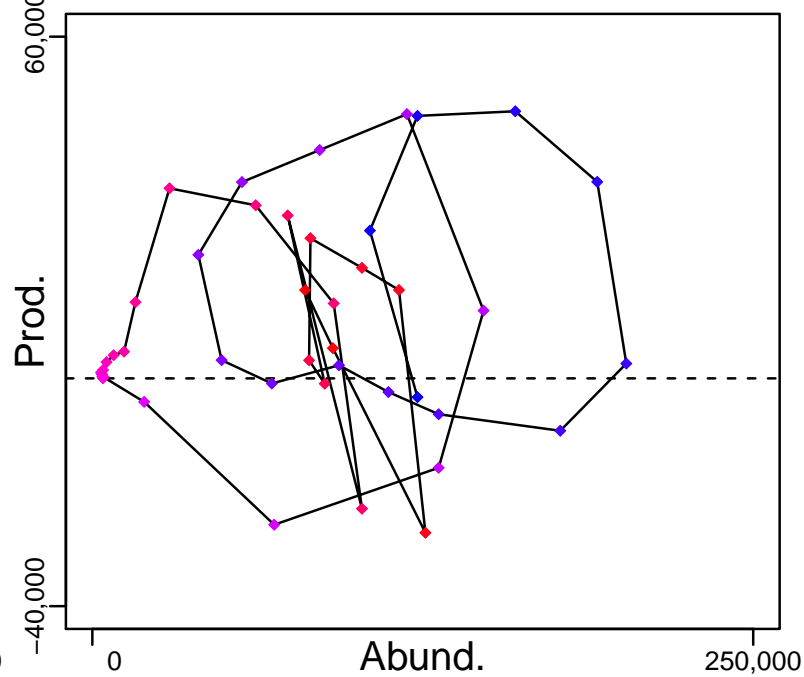
Kobe MGTpref (1972–2018–ICESIMP2018)



Spawner Recruit (1972–2018–ICESIMP2018)



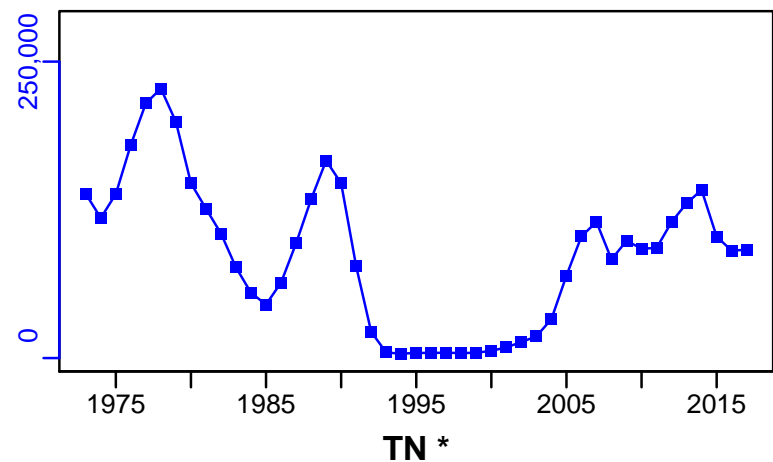
Production (1972–2018–ICESIMP2018)



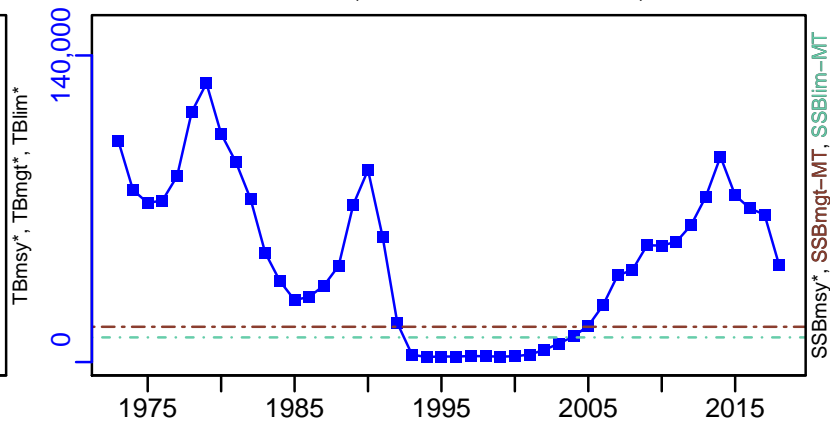
◆ Start Year ◆ End Year \* No Data

# Atlantic cod NAFO 1f and ICES 14 [COD1f-XIV]

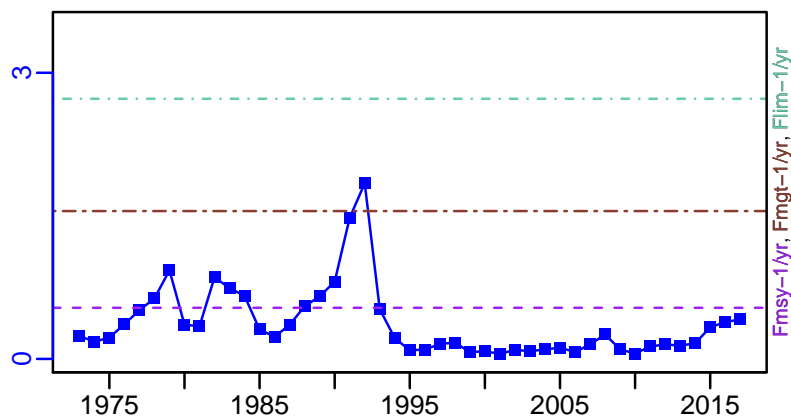
TB-MT (1972-2018-ICESIMP2018)



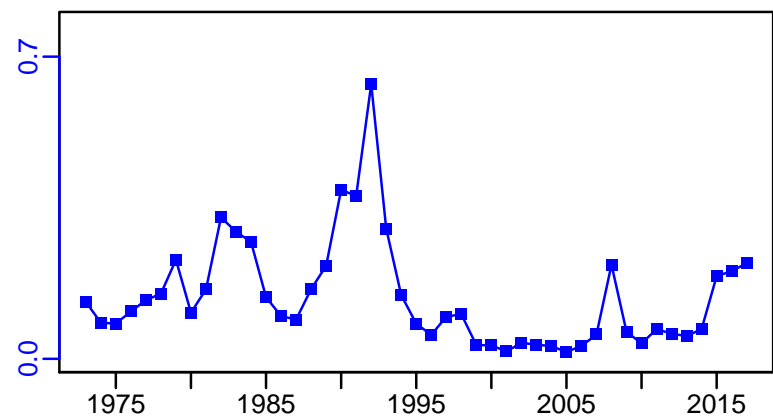
SSB-MT (1972-2018-ICESIMP2018)



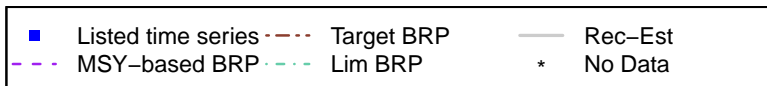
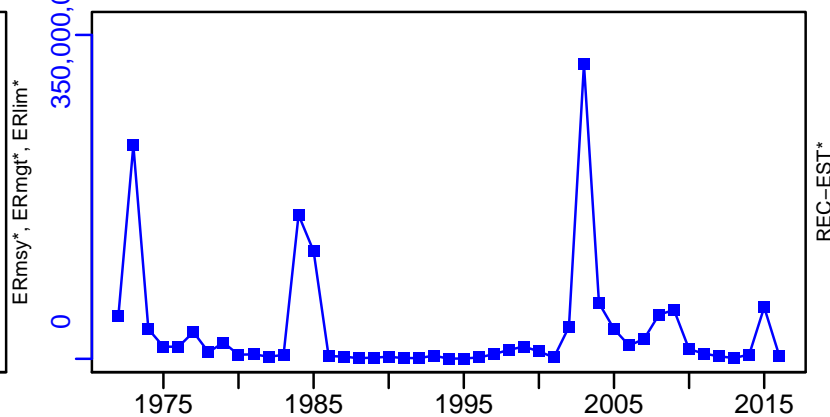
F-1/yr (1972-2018-ICESIMP2018)



ER-calc-ratio (1972-2018-ICESIMP2018)



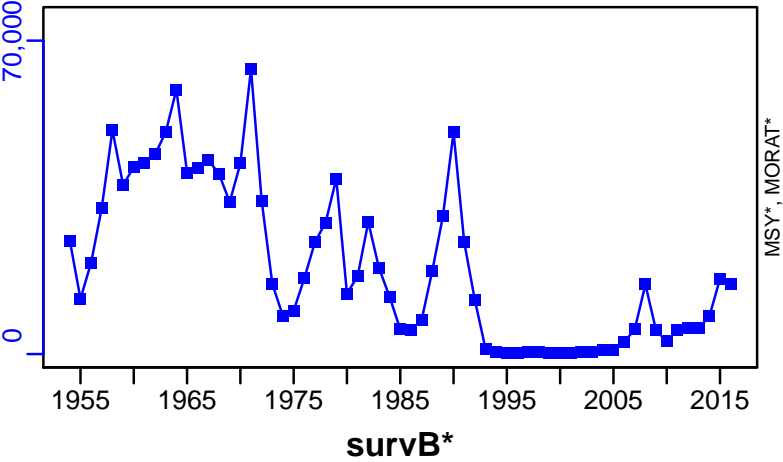
R-E00 (1972-2018-ICESIMP2018)





Atlantic cod NAFO 1f and ICES 14 [COD1f–XIV]

TC–MT, TL\*, RecC\* (1954–2016–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



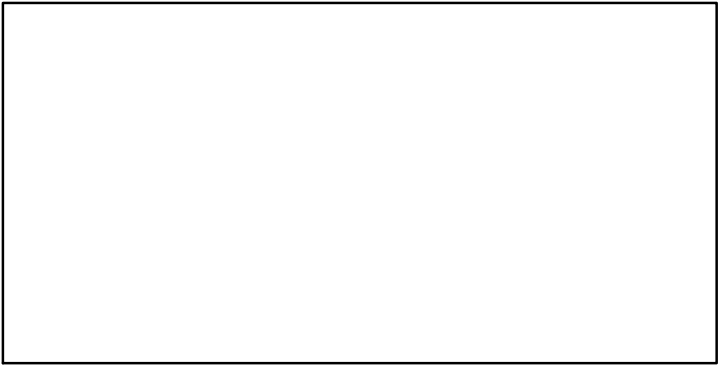
CPUE\*



EFFORT\*



CdivMSY\*



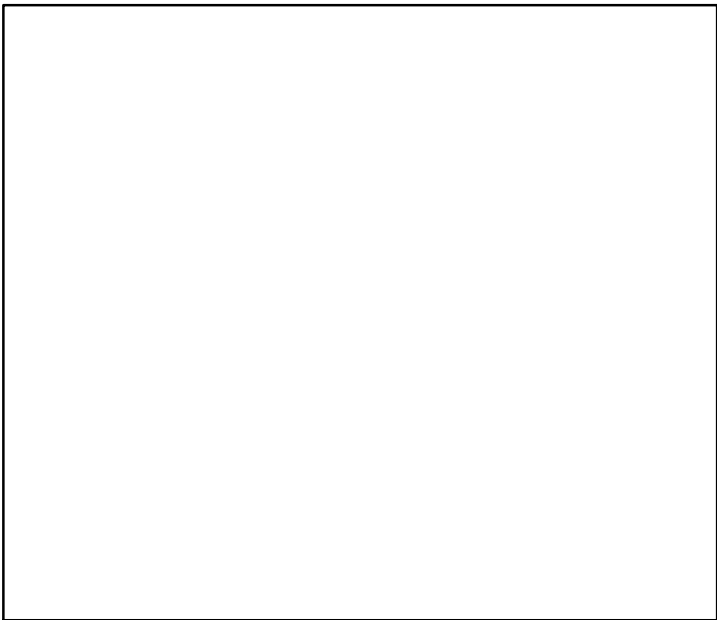
## Atlantic cod Faroe Bank [CODFABNK]

Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODFABNK-1965-2016-ICESIMP2016
<b>Area</b>	Faroe Bank
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	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	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	17		
TL	TL-MT	2016	17		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

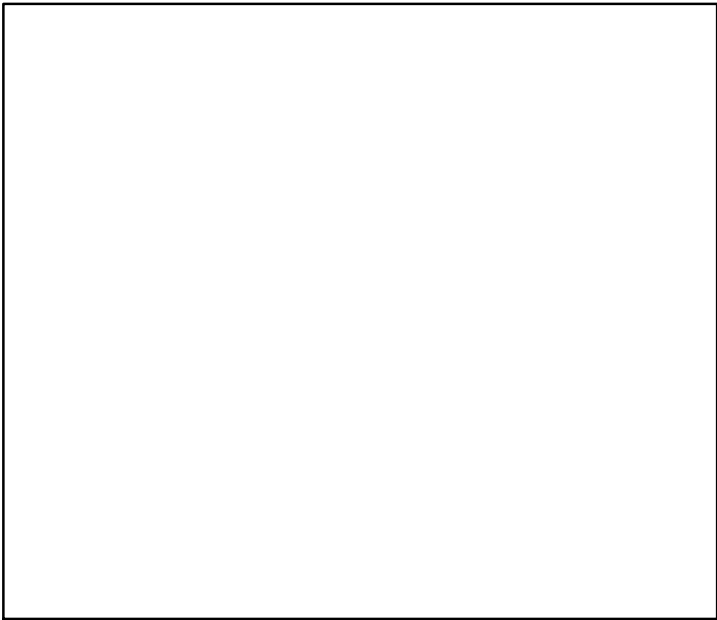
Kobe MSY\*



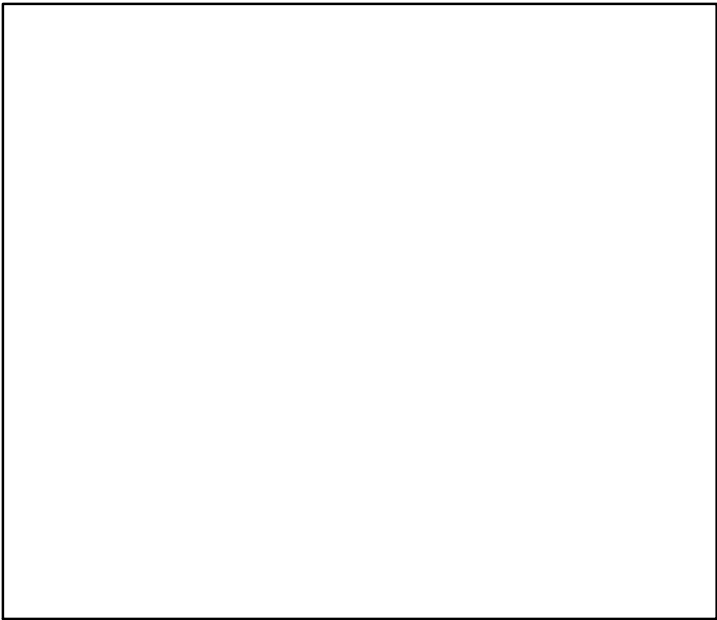
Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

Atlantic cod Faroe Bank [CODFABNK]

TB\*



SSB\*



TN \*



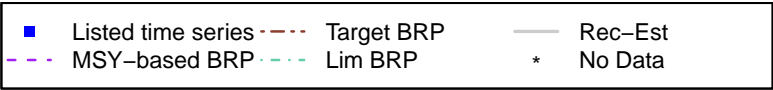
F\*



ER\*

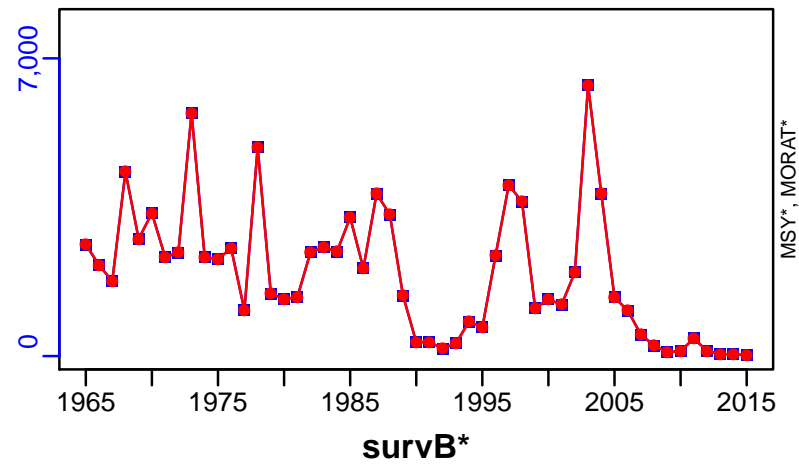


Recruits\*



# Atlantic cod Faroe Bank [CODFABNK]

TC-MT, TL-MT, RecC\* (1965–2016–ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



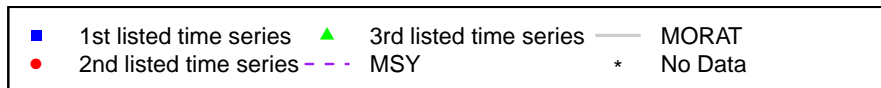
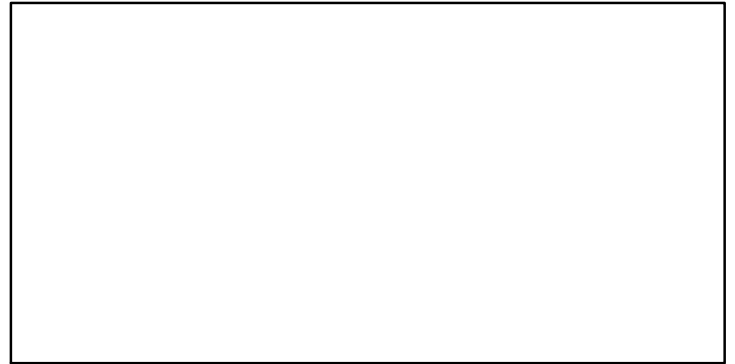
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod Faroe Plateau [CODFAPL]

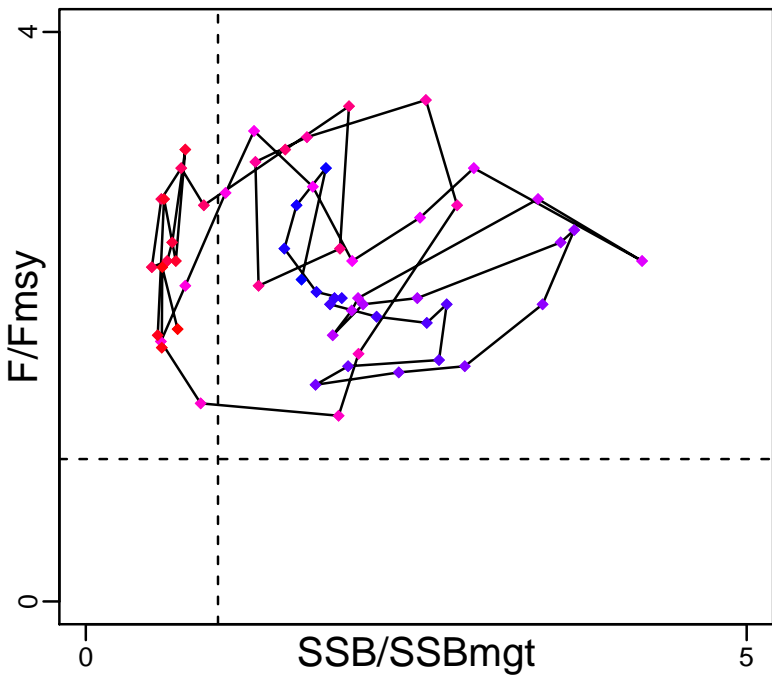
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODFAPL-1958-2018-ICESIMP2018
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2017, 2018, 2012, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2017	0.23
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	29,226
<b>Fmgt</b>	Fmgt-1/yr	2017	0.23
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	21,000
<b>Flim</b>	Flim-1/yr	2017	0.9
<b>ERlim</b>	-	-	-

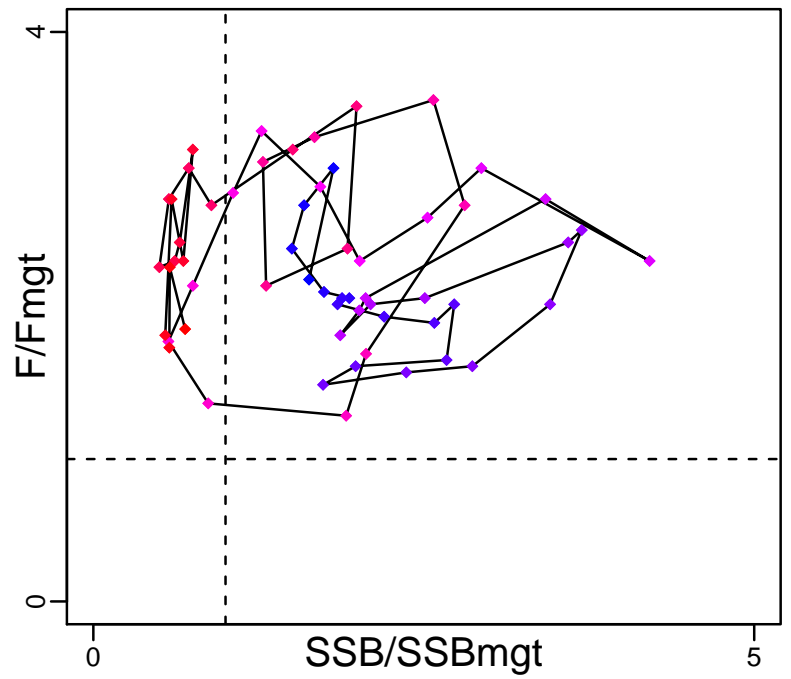
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	64,500	Both	-
<b>SSB</b>	SSB-MT	2018	35,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	32,700,000	-	1
<b>F</b>	F-1/yr	2017	0.44	-	3 to 7
<b>ER</b>	ER-calc-ratio	2018	0.143	-	-
<b>TC</b>	TC-MT	2018	5370		
<b>TL</b>	TL-MT	2018	5370		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	1.913		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	1.198		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	1.913		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Faroe Plateau [CODFAPL]

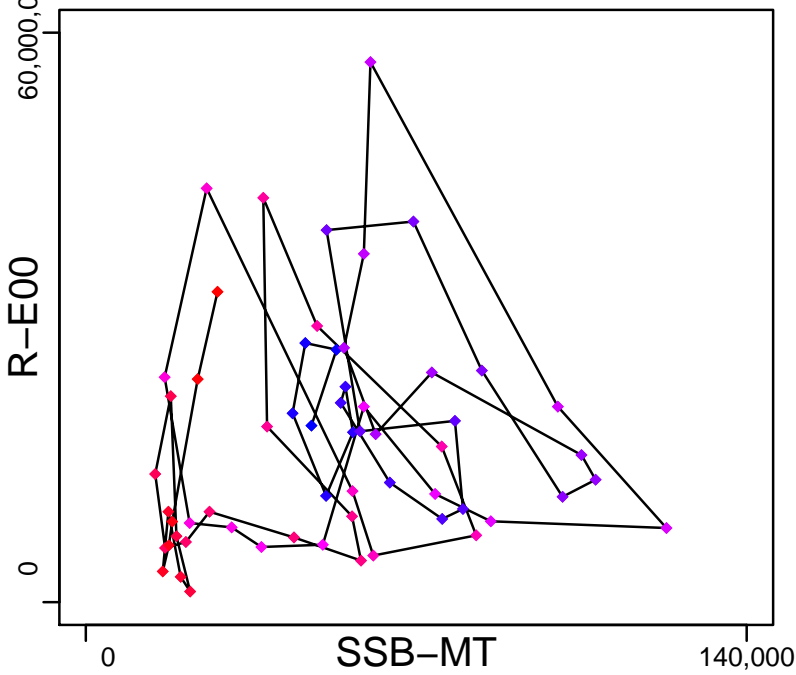
Kobe MSYpref (1958–2017–ICESIMP2018)



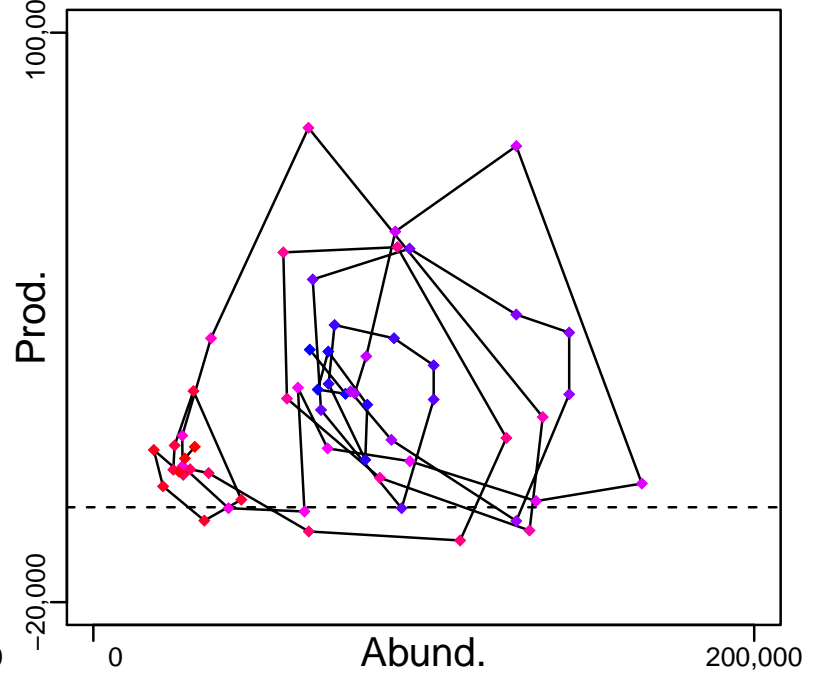
Kobe MGTpref (1958–2017–ICESIMP2018)



Spawner Recruit (1958–2018–ICESIMP2018)



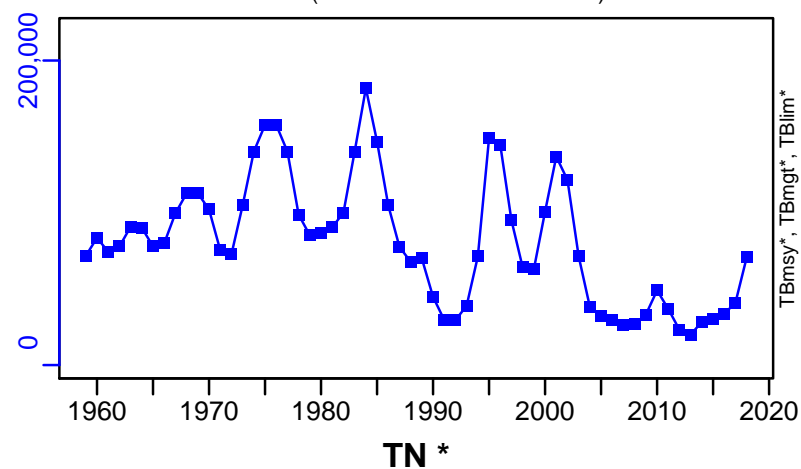
Production (1958–2018–ICESIMP2018)



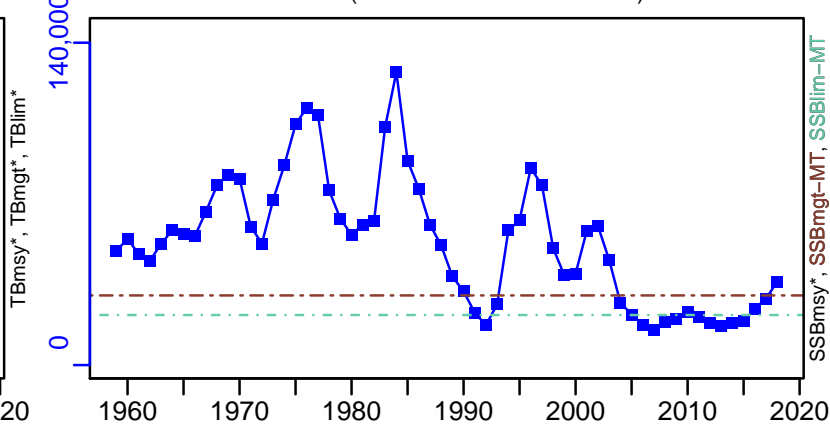
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Faroe Plateau [CODFAPL]

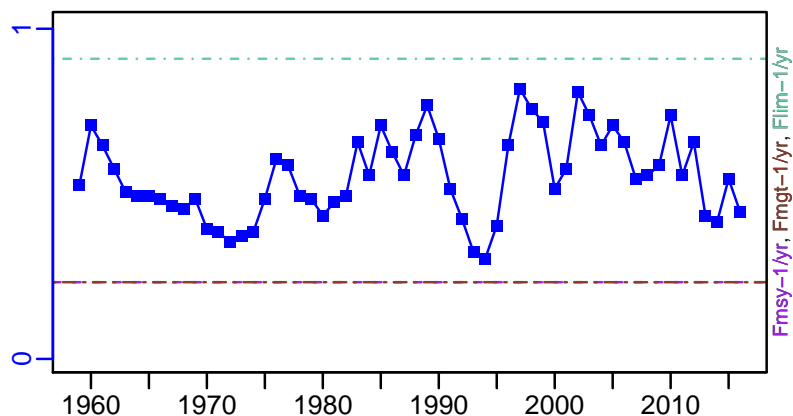
TB-MT (1958–2018–ICESIMP2018)



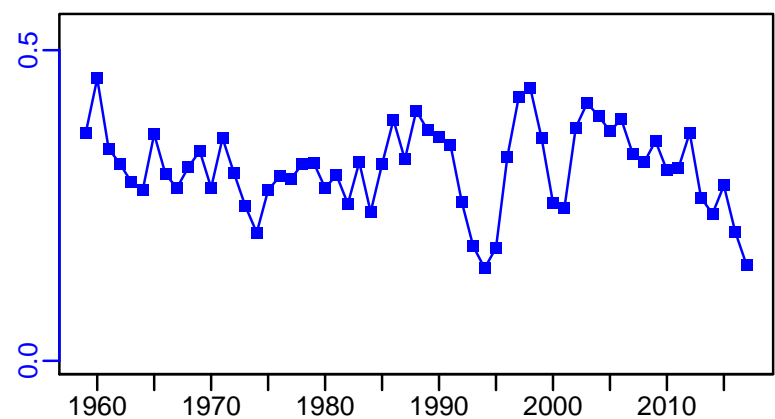
SSB-MT (1958–2018–ICESIMP2018)



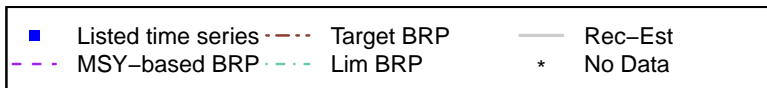
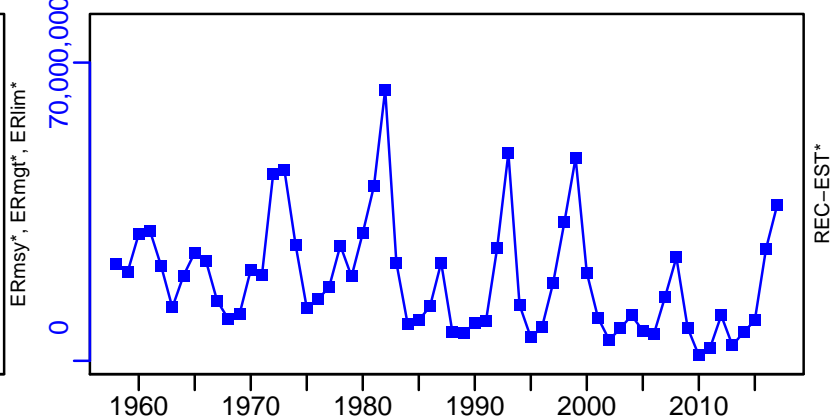
F-1/yr (1958–2017–ICESIMP2018)



ER-calc-ratio (1958–2018–ICESIMP2018)



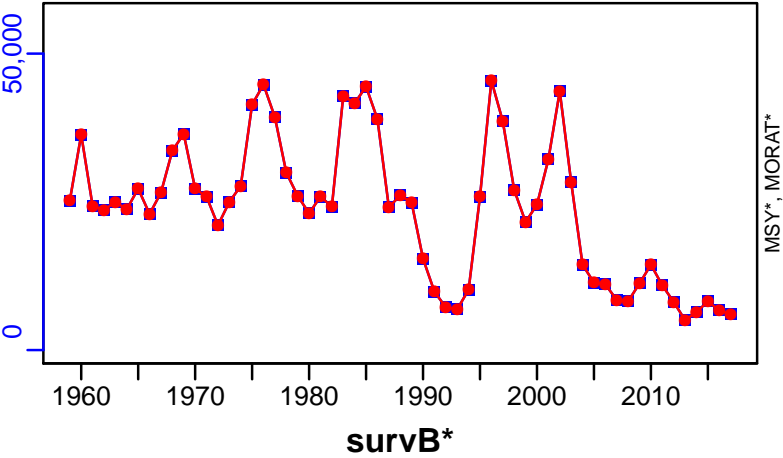
R-E00 (1958–2018–ICESIMP2018)



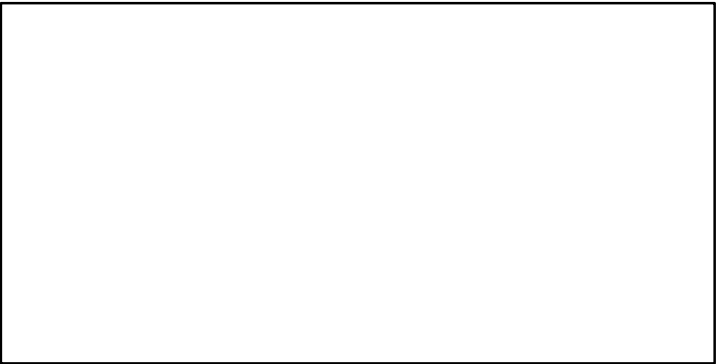


Atlantic cod Faroe Plateau [CODFAPL]

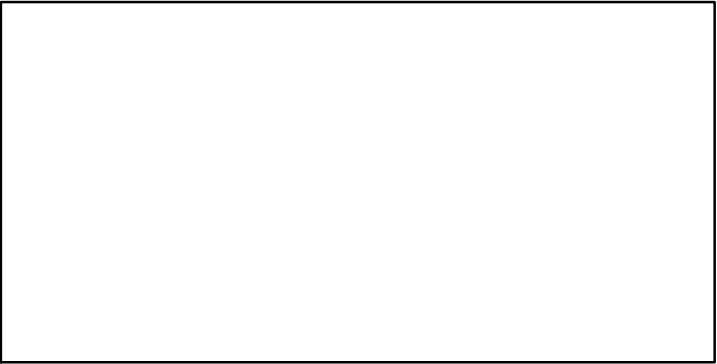
TC-MT, TL-MT, RecC\* (1958–2018–ICESIMP2018)



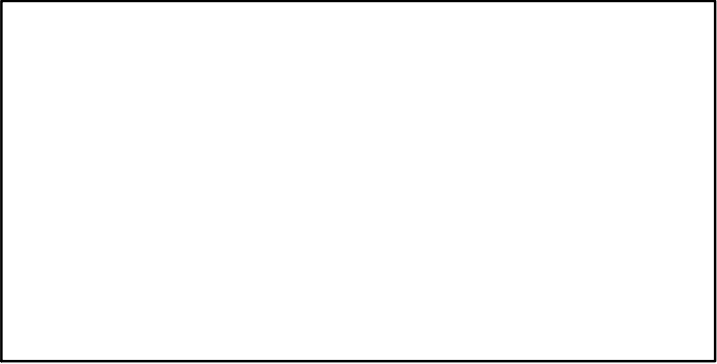
TAC\*, Cpair\*, Cadv\*



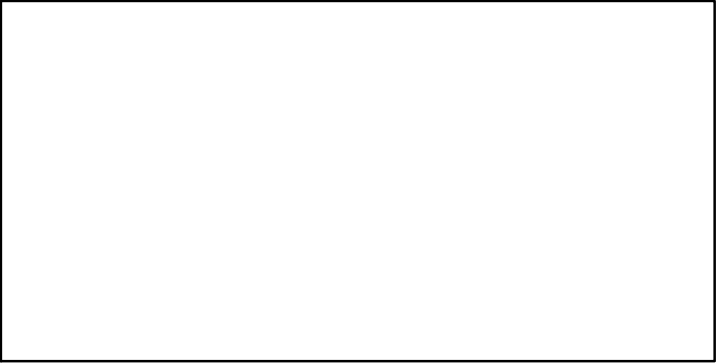
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod Iceland Grounds [CODICE]

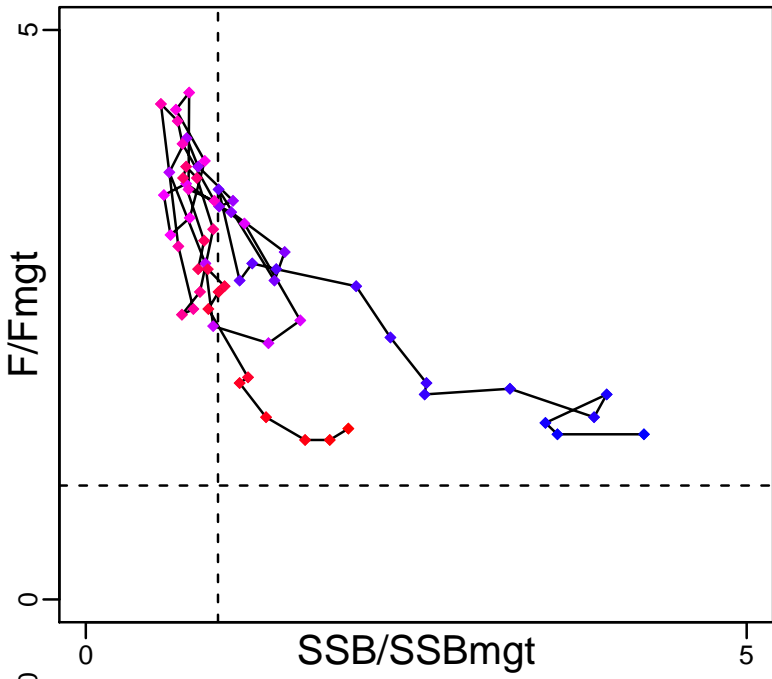
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODICE-1952-2018-ICESIMP2018
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	220,000
<b>Fmgt</b>	Fmgt-1/yr	2014	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2012	125,000
<b>SSBlim</b>	SSBlim-MT	2018	125,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	-	-	-

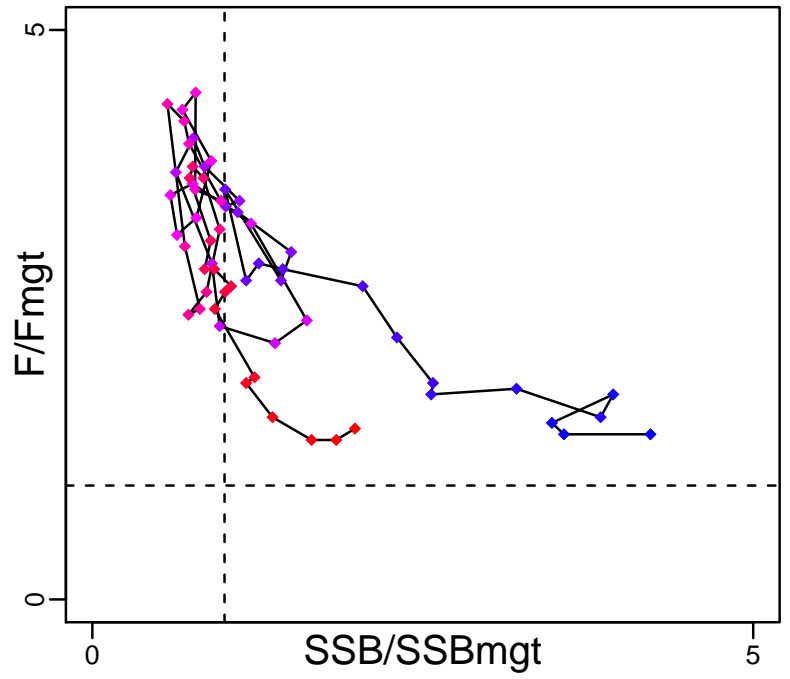
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	1,160,000	Both	-
<b>SSB</b>	SSB-MT	2018	652,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$1.58 \times 10^8$	-	3
<b>F</b>	F-1/yr	2018	0.26	-	-
<b>ER</b>	ER-calc-ratio	2014	0.193	-	-
<b>TC</b>	TC-MT	2018	244,000		
<b>TL</b>	TL-MT	2018	244,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	2.964		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2014	1.5		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Iceland Grounds [CODICE]

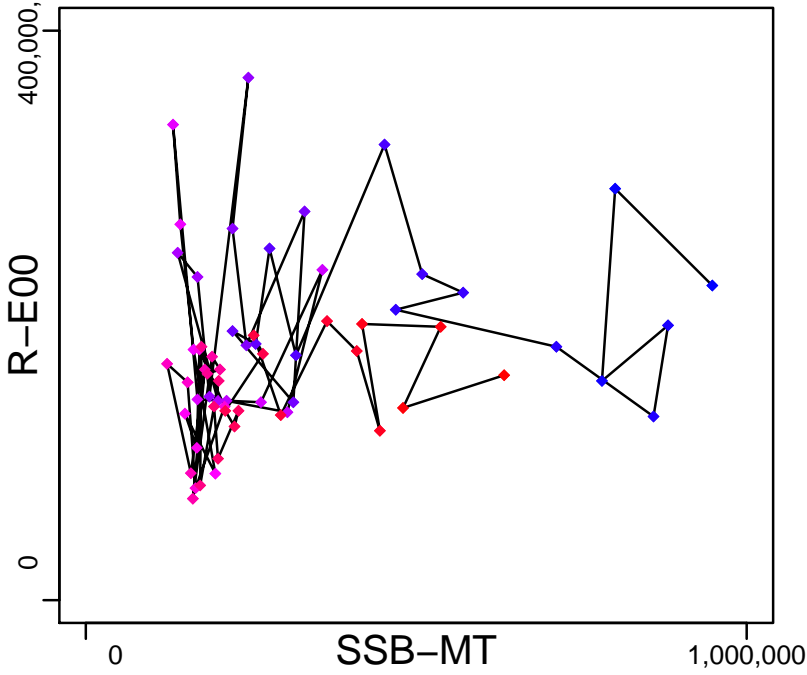
Kobe MSYpref (1952–2014–ICESIMP2016)



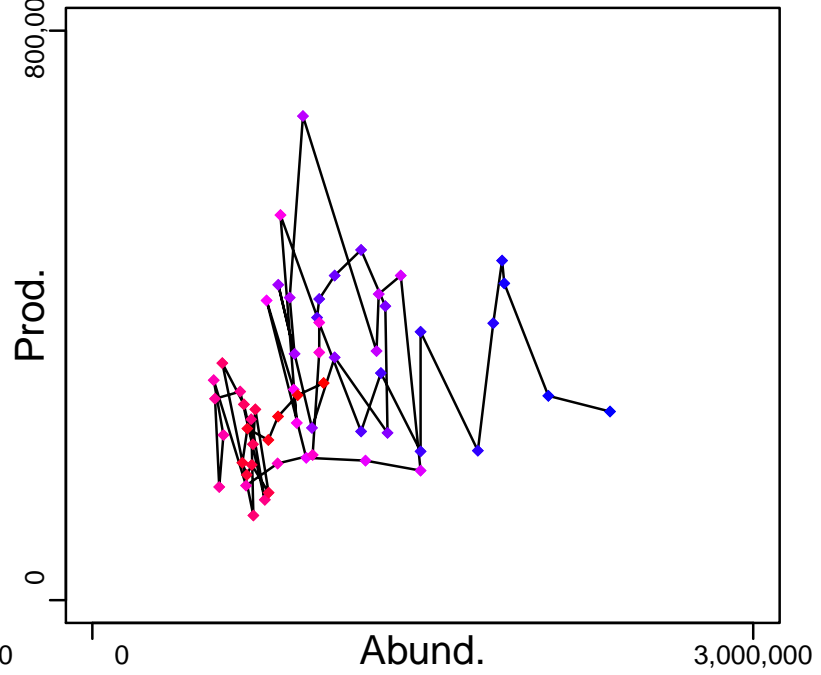
Kobe MGTpref (1952–2014–ICESIMP2016)



Spawner Recruit (1952–2018–ICESIMP2018)



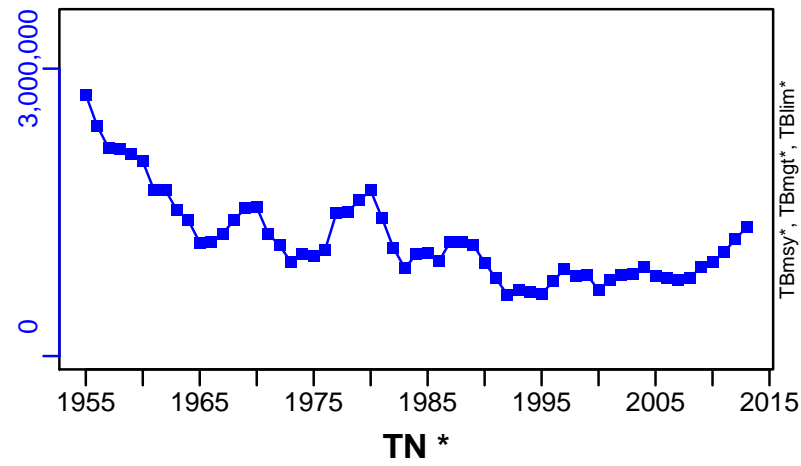
Production (1952–2014–ICESIMP2016)



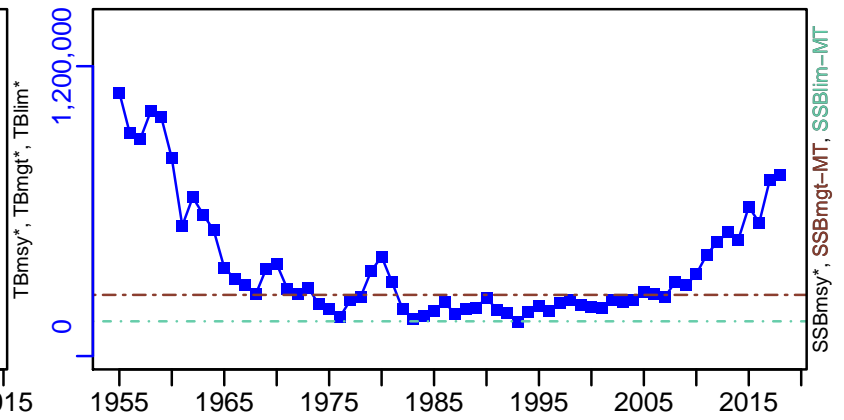
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Iceland Grounds [CODICE]

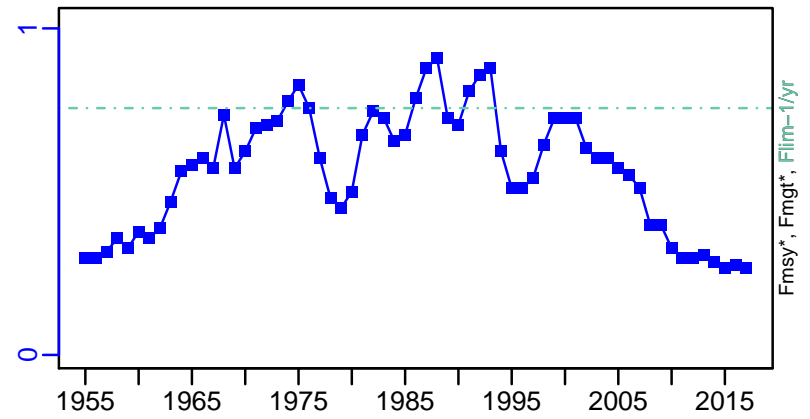
TB-MT (1952–2014–ICESIMP2016)



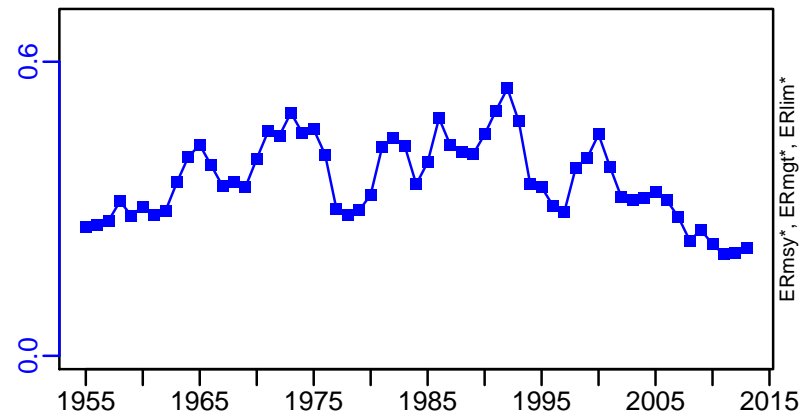
SSB-MT (1952–2018–ICESIMP2018)



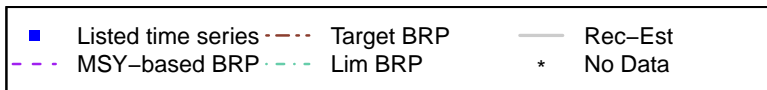
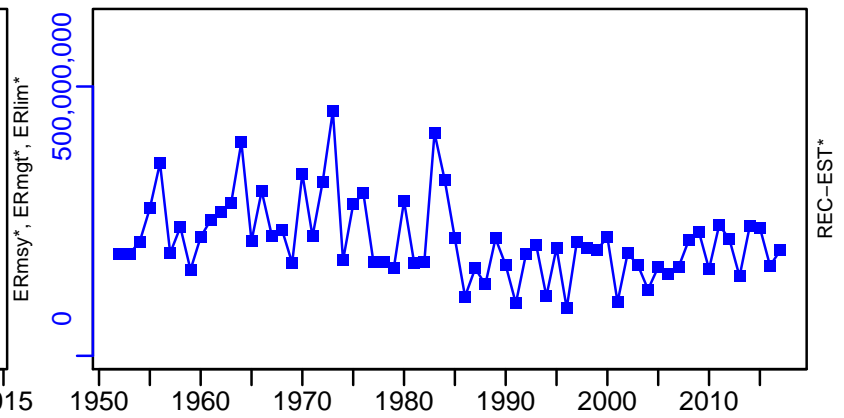
F-1/yr (1952–2018–ICESIMP2018)



ER-calc-ratio (1952–2014–ICESIMP2016)



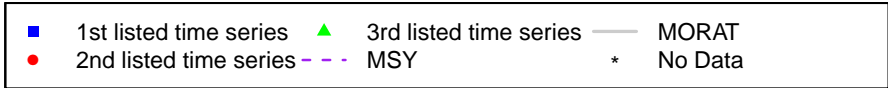
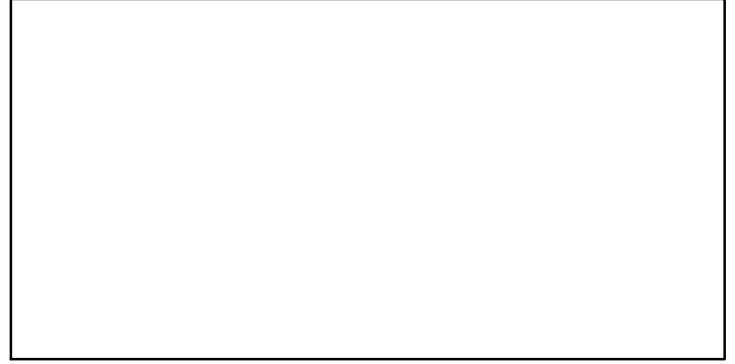
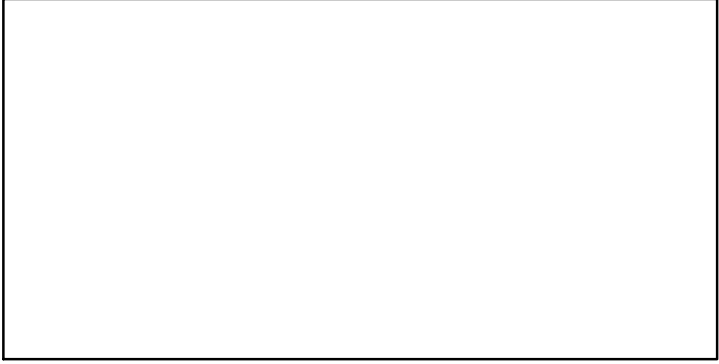
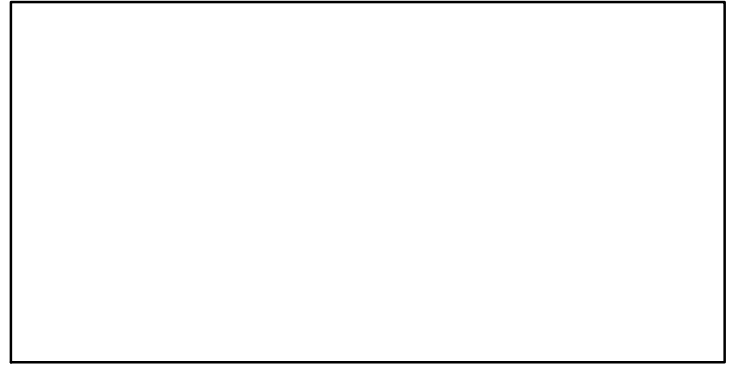
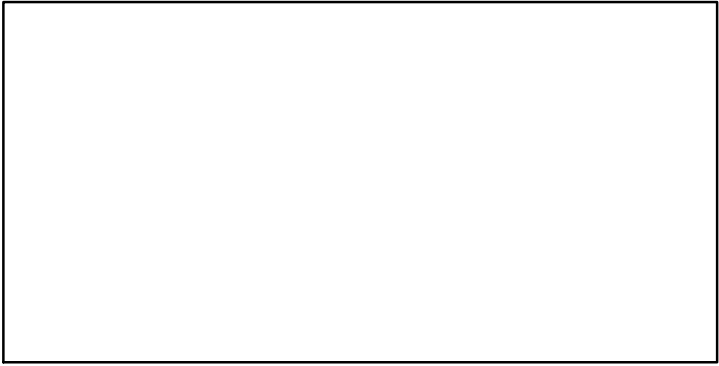
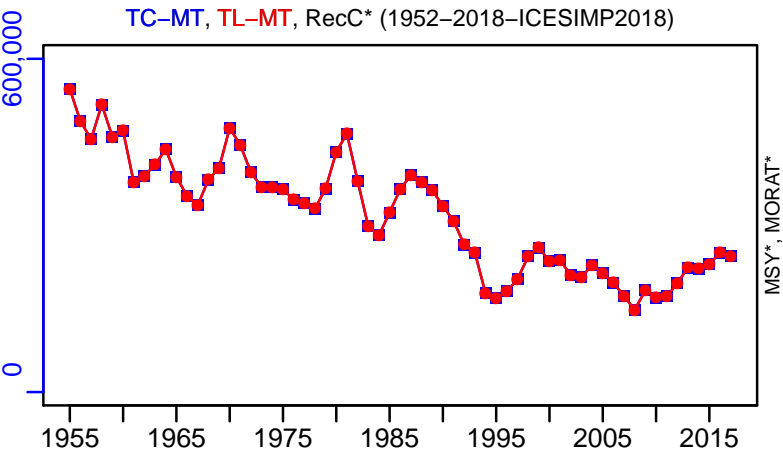
R-E00 (1952–2018–ICESIMP2018)



# Atlantic cod Iceland Grounds [CODICE]

TC-MT, TL-MT, RecC\* (1952-2018-ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



## Atlantic cod North-East Arctic [CODNEAR]

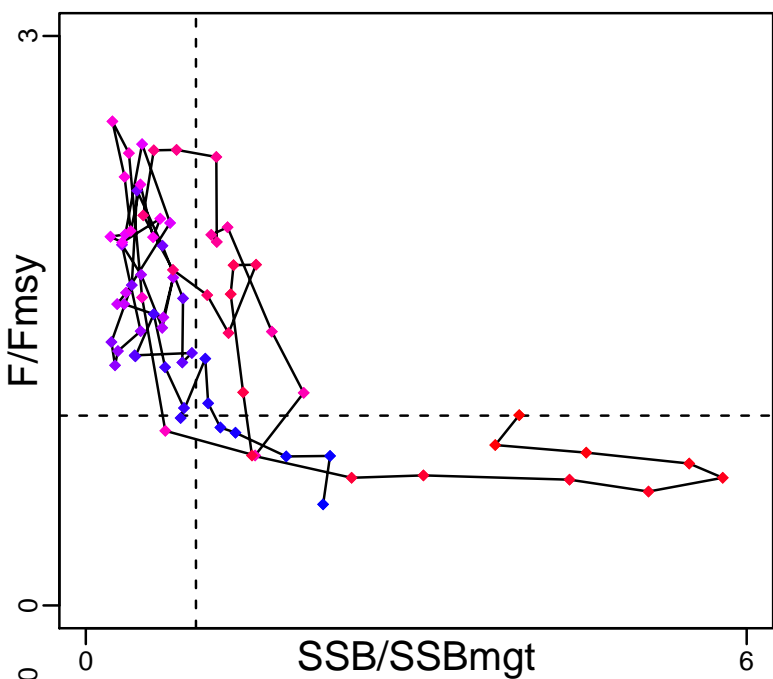
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEAR-1943-2018-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2013, 2014, 2015, 2016, 2017, 2018, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.4
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	460,000
<b>Fmgt</b>	Fmgt-1/yr	2018	0.4
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	220,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	-	-	-

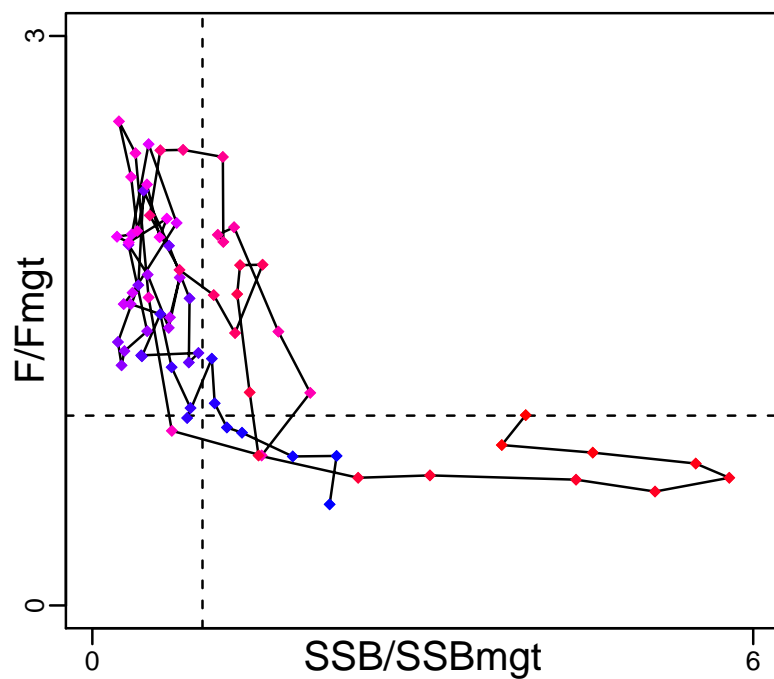
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	2,620,000	Both	-
<b>SSB</b>	SSB-MT	2018	1,490,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$6.91 \times 10^8$	-	3
<b>F</b>	F-1/yr	2018	0.401	-	5 to 10
<b>ER</b>	ER-calc-ratio	2018	0.286	-	-
<b>TC</b>	TC-MT	2018	868,000		
<b>TL</b>	TL-MT	2018	868,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.002		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	3.239		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	1.002		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod North-East Arctic [CODNEAR]

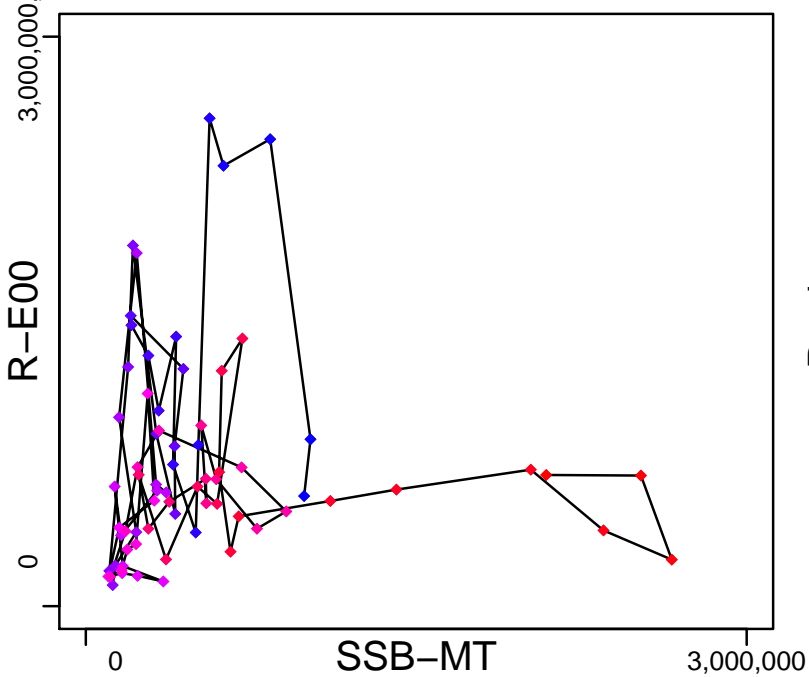
Kobe MSYpref (1943–2018–ICESIMP2018)



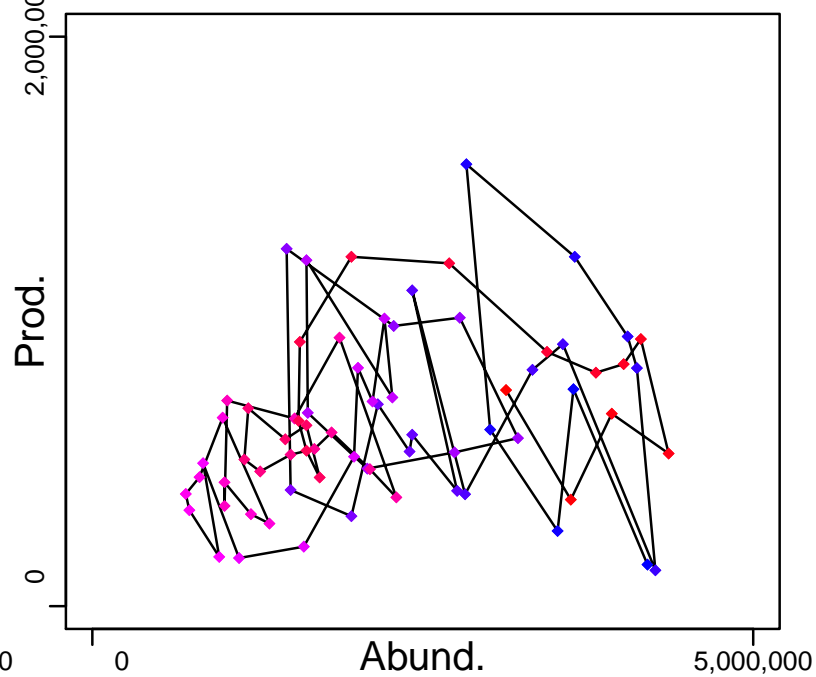
Kobe MGTpref (1943–2018–ICESIMP2018)



Spawner Recruit (1943–2018–ICESIMP2018)

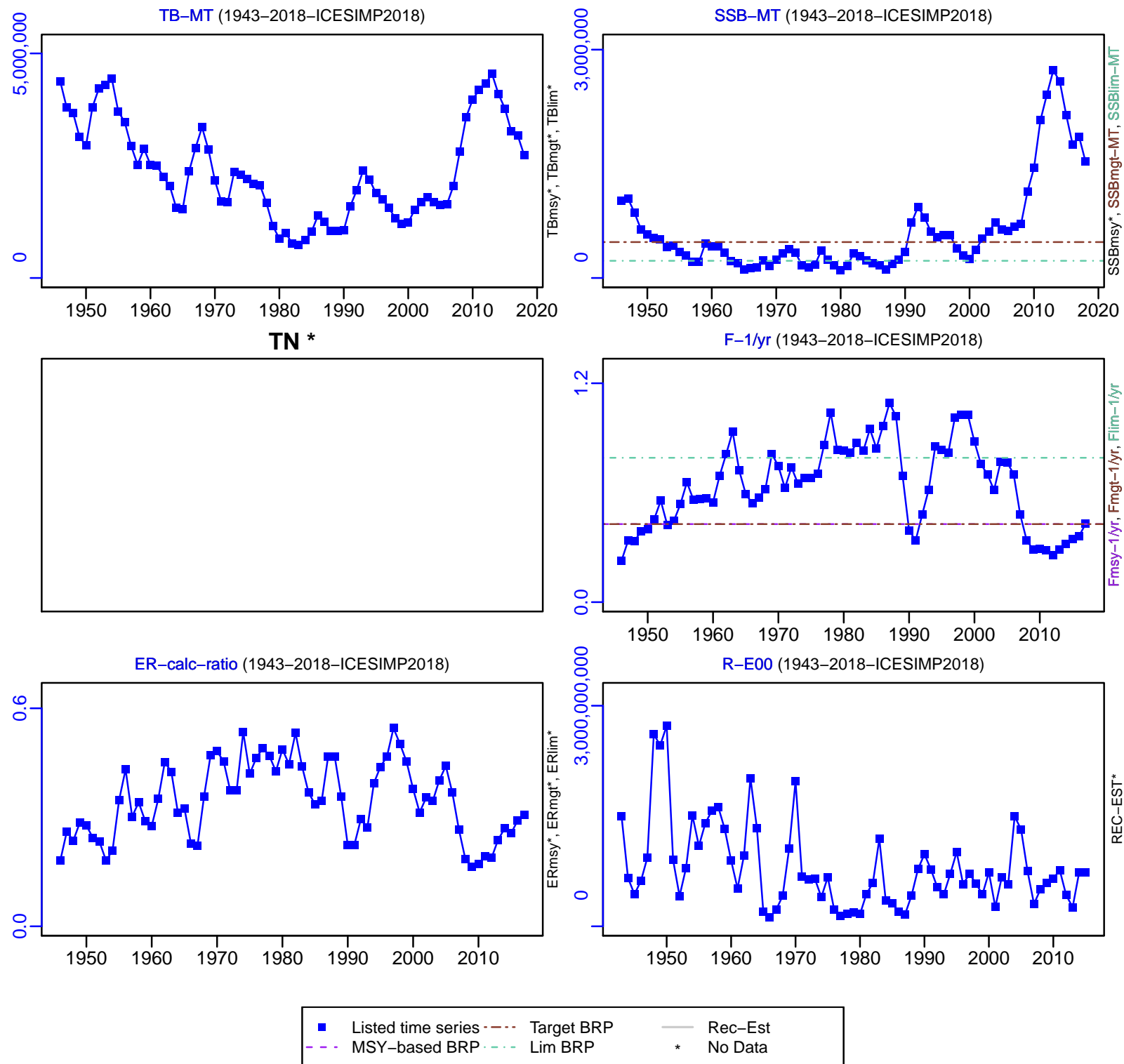


Production (1943–2018–ICESIMP2018)



◆ Start Year ◆ End Year \* No Data

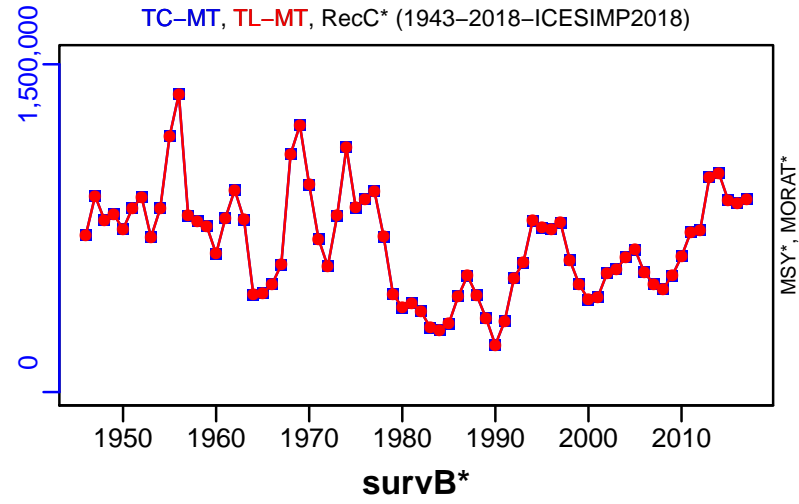
# Atlantic cod North-East Arctic [CODNEAR]





# Atlantic cod North-East Arctic [CODNEAR]

TC-MT, TL-MT, RecC\* (1943–2018–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



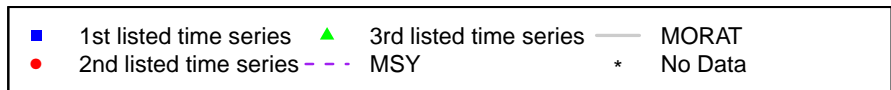
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

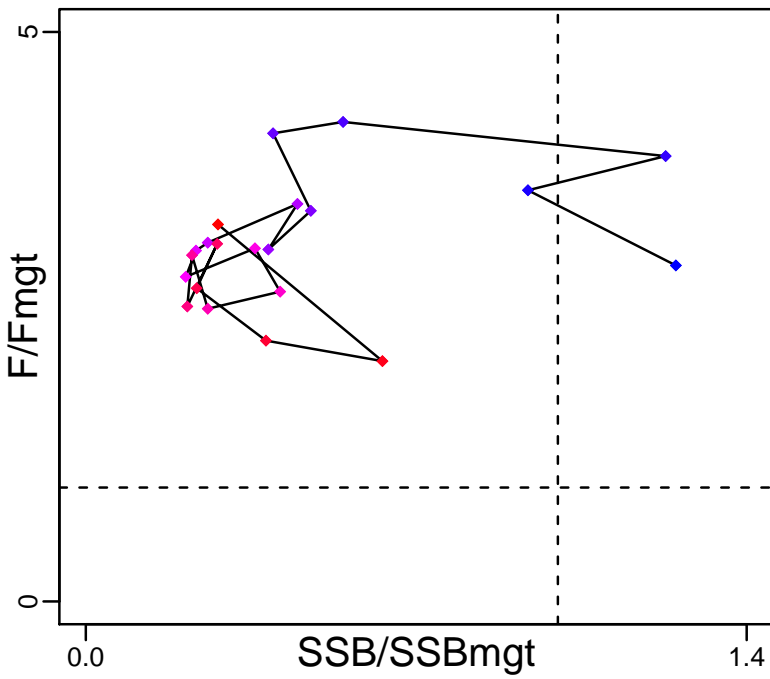
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEARNCW-1984-2017-ICESIMP2018
<b>Area</b>	North-East Arctic (Norwegian coastal waters)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	60,000
Fmgt	Fmgt-1/yr	2016	0.1
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

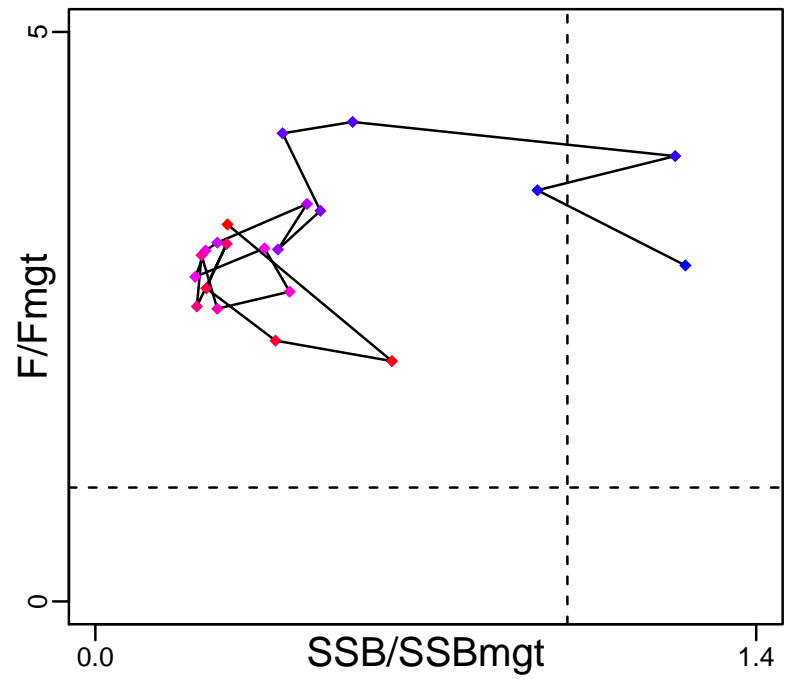
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2016	16,800	Both	-
TN	-	-	-	-	-
R	R-relative	2016	0.918	-	2
F	F-1/yr	2017	0.331	-	4 to 7
ER	-	-	-	-	-
TC	TC-MT	2017	52,900		
TL	TL-MT	2017	52,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2016	0.28		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.31		
ER/ERmgt	-	-	-		

# Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

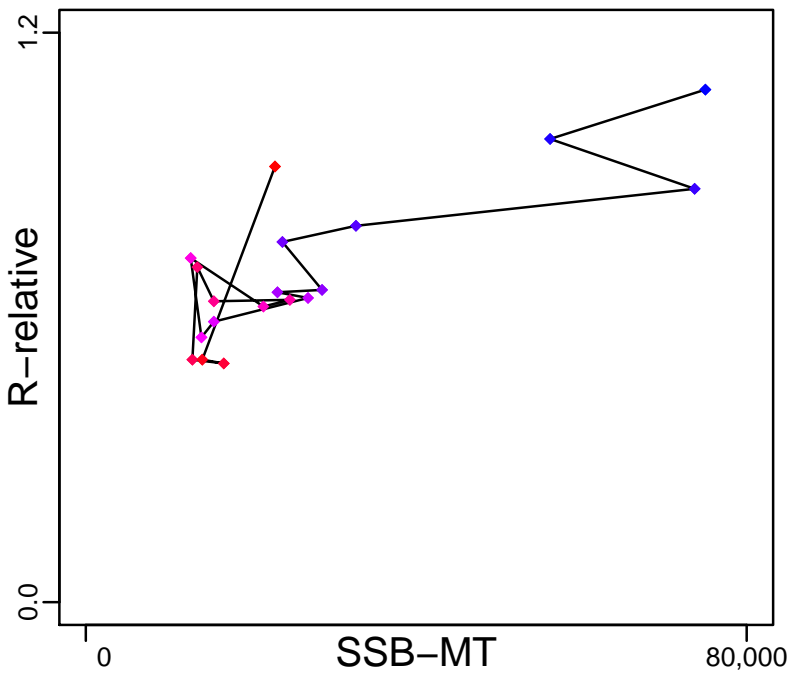
Kobe MSYpref (1982–2016–ICESIMP2016)



Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



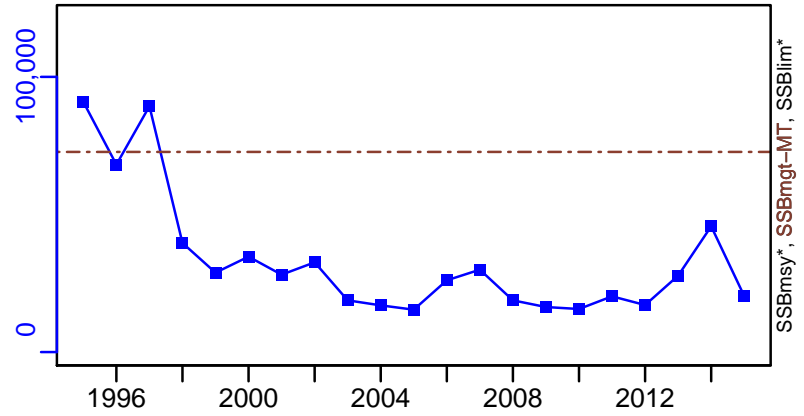
◆ Start Year ◆ End Year \* No Data

# Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

TB\*



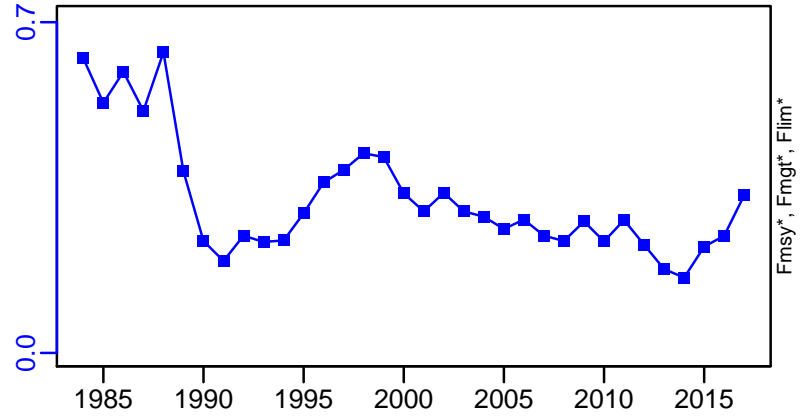
SSB-MT (1982–2016–ICESIMP2016)



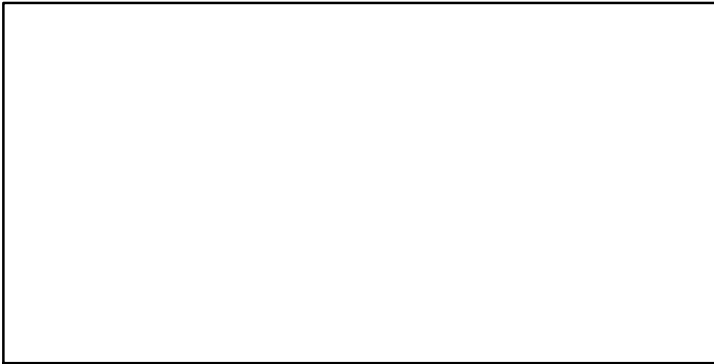
TN \*



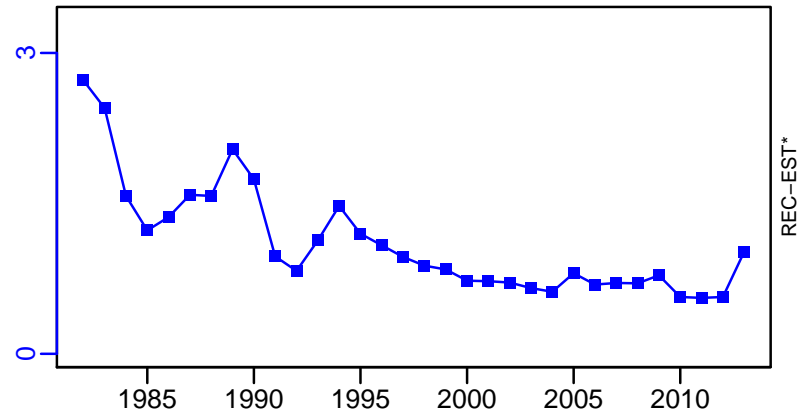
F-1/yr (1984–2017–ICESIMP2018)



ER\*



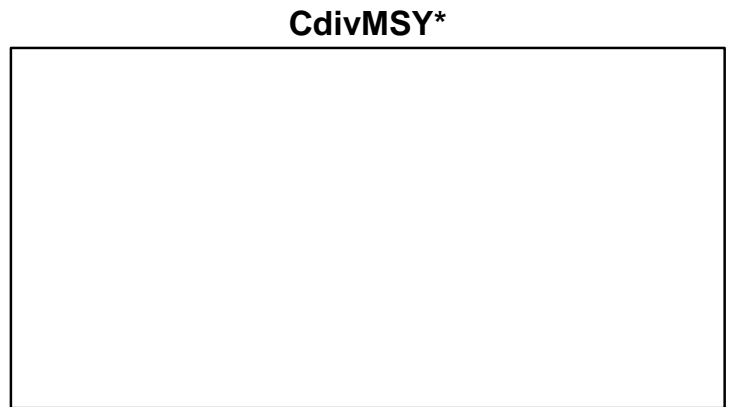
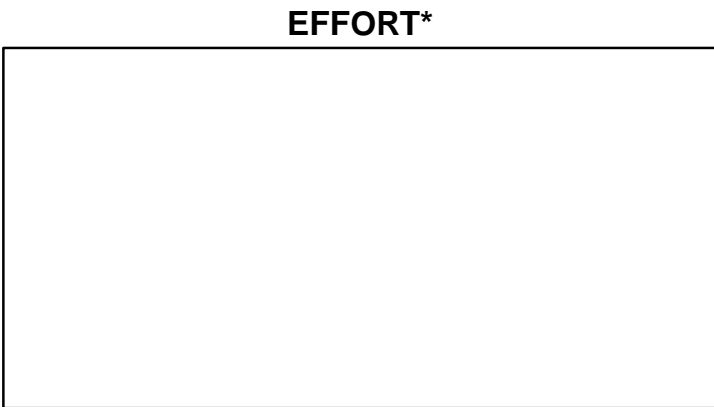
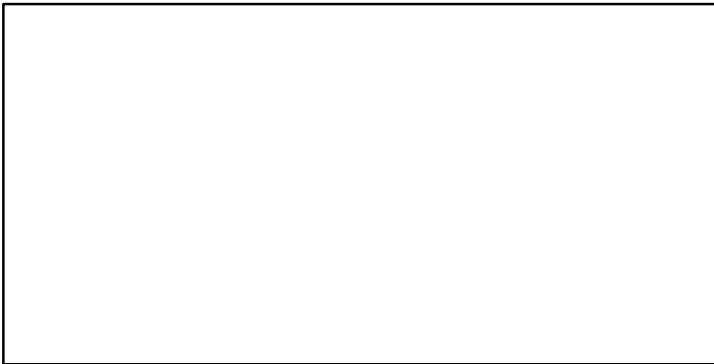
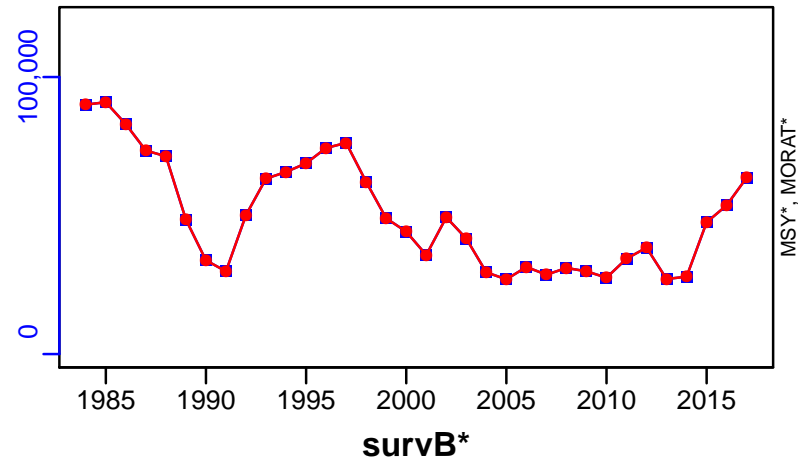
R-relative (1982–2016–ICESIMP2016)



# Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

TC-MT, TL-MT, RecC\* (1984–2017–ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



## Tusk North-East Arctic [CUSKI-II]

Metadata	
<b>Scientific Name</b>	Brosme brosme
<b>Current Assess ID</b>	WGDEEP-CUSKI-II-1988-2016-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 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	SSB-index	2014	111	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2014	8730		
TL	TL-MT	2016	11,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



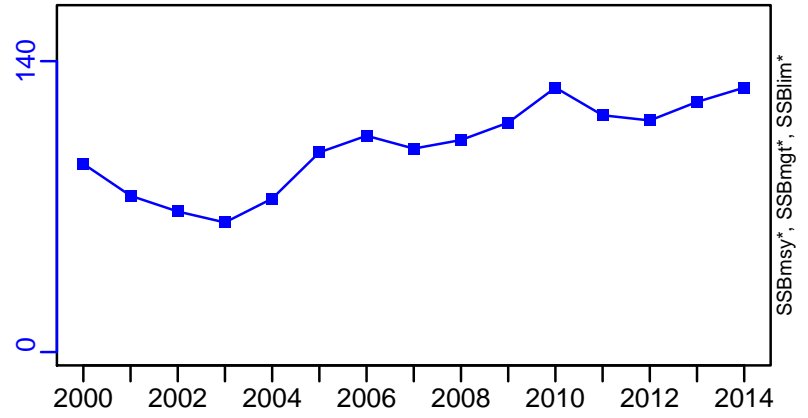
◆ Start Year ◆ End Year \* No Data

# Tusk North–East Arctic [CUSKI–II]

TB\*



SSB–index (1988–2014–ICESIMP2018)



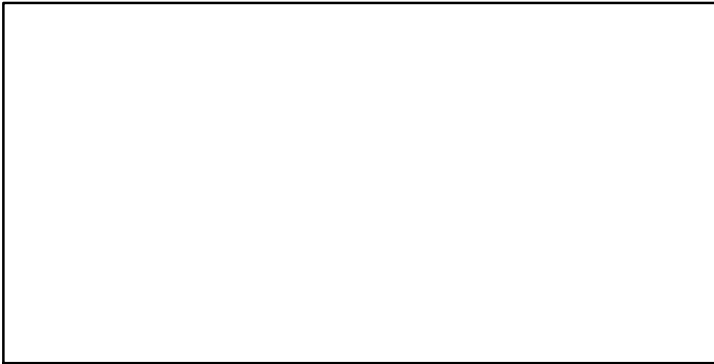
TN \*



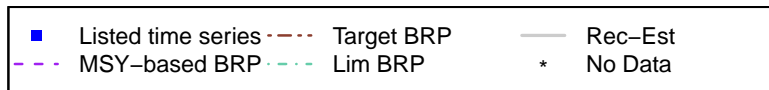
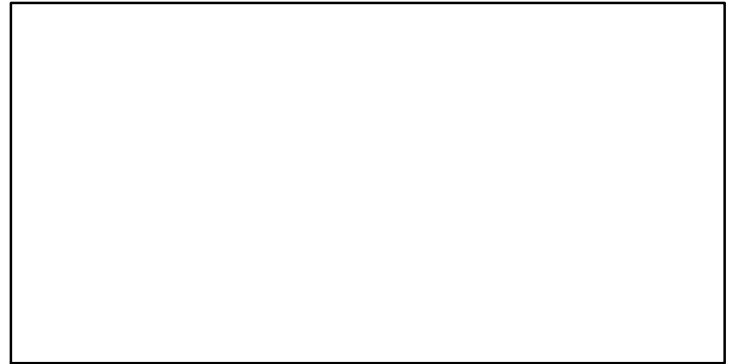
F\*



ER\*



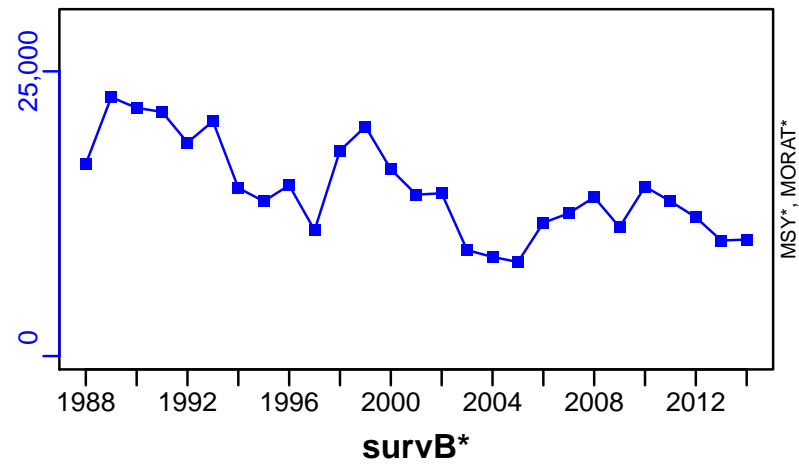
Recruits\*





Tusk North–East Arctic [CUSKI–II]

TC–MT, TL\*, RecC\* (1988–2014–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



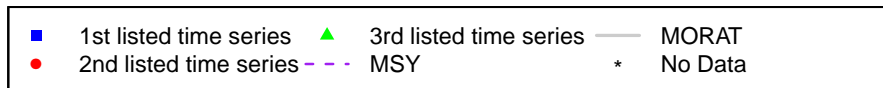
CPUE\*



EFFORT\*



CdivMSY\*



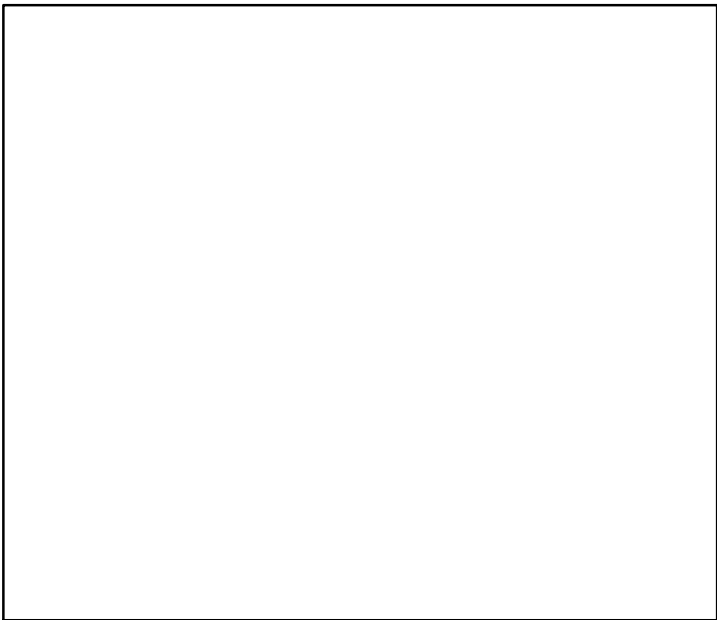
## Greenland halibut North-East Arctic [GHALNEAR]

Metadata	
<b>Scientific Name</b>	Reinhardtius hippoglossoides
<b>Current Assess ID</b>	AFWG-GHALNEAR-1935-2016-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	M-1/yr	2010	0.15
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	666,000	Both	-
SSB	SSB-MT	2015	734,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	1,020,000	-	-
F	F-1/yr	2010	0.061	-	6 to 10
ER	ER-ratio	2016	0.037	-	-
TC	TC-MT	2015	22,200		
TL	TL-MT	2016	24,900		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

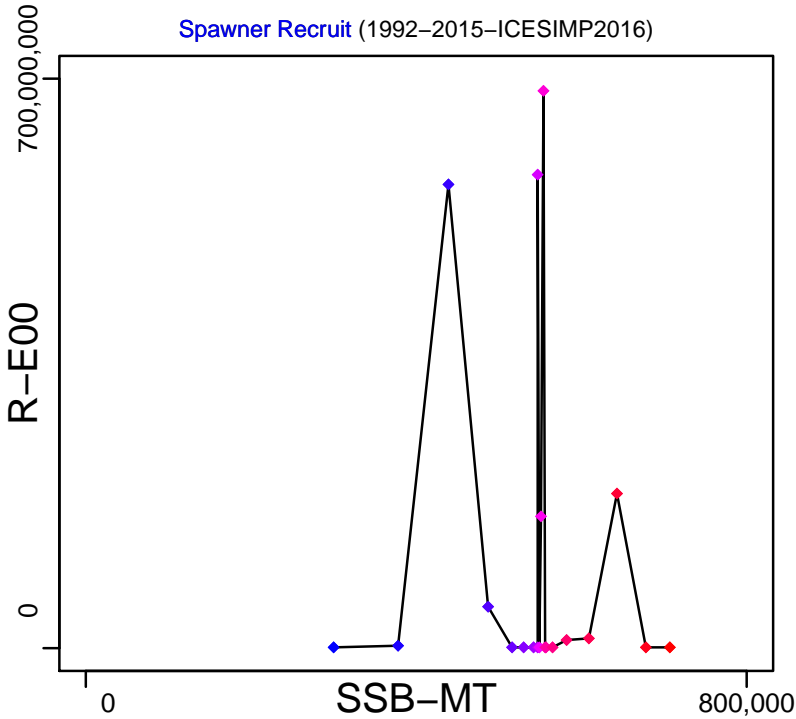
Kobe MSY\*



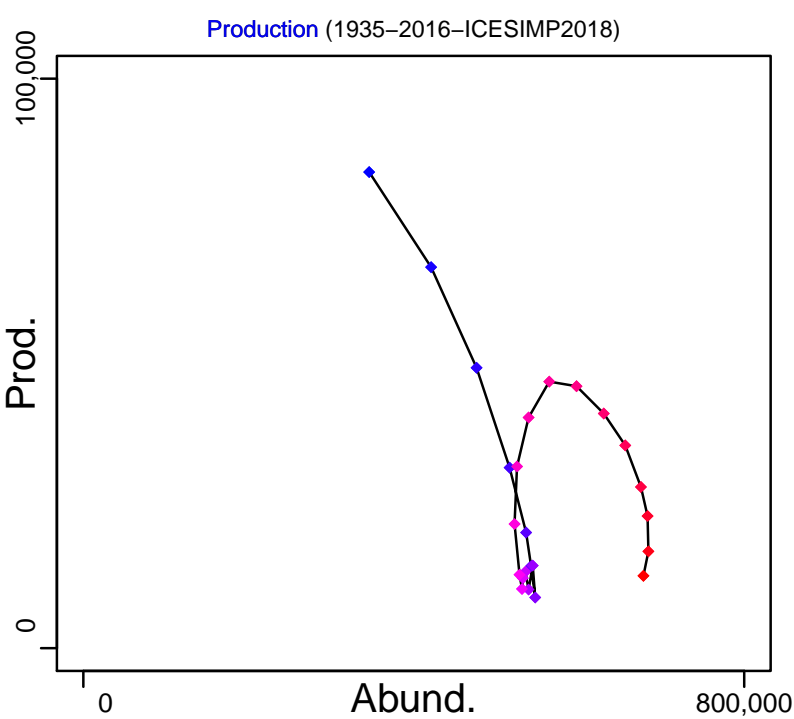
Kobe MGT\*



Spawner Recruit (1992–2015–ICESIMP2016)



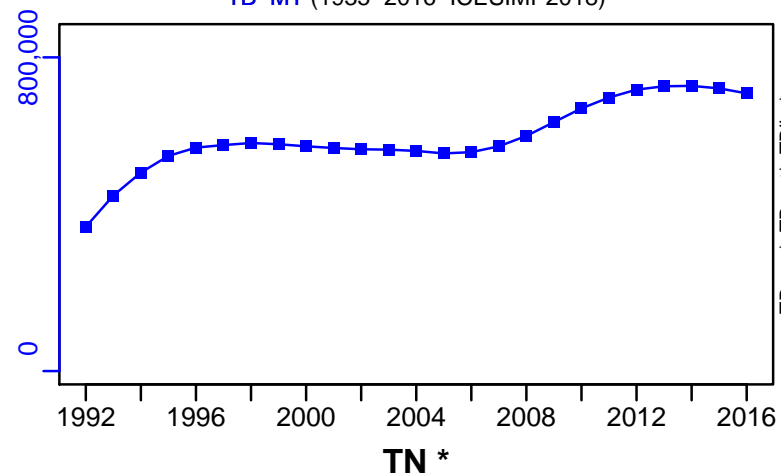
Production (1935–2016–ICESIMP2018)



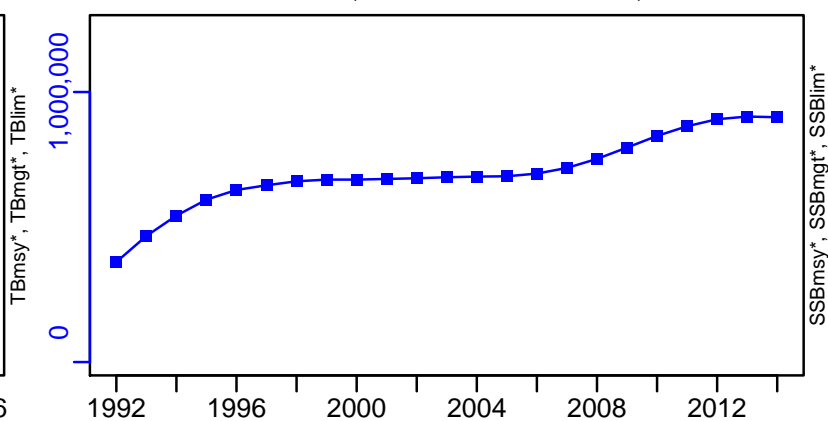
◆ Start Year ◆ End Year \* No Data

# Greenland halibut North-East Arctic [GHALNEAR]

TB-MT (1935–2016–ICESIMP2018)

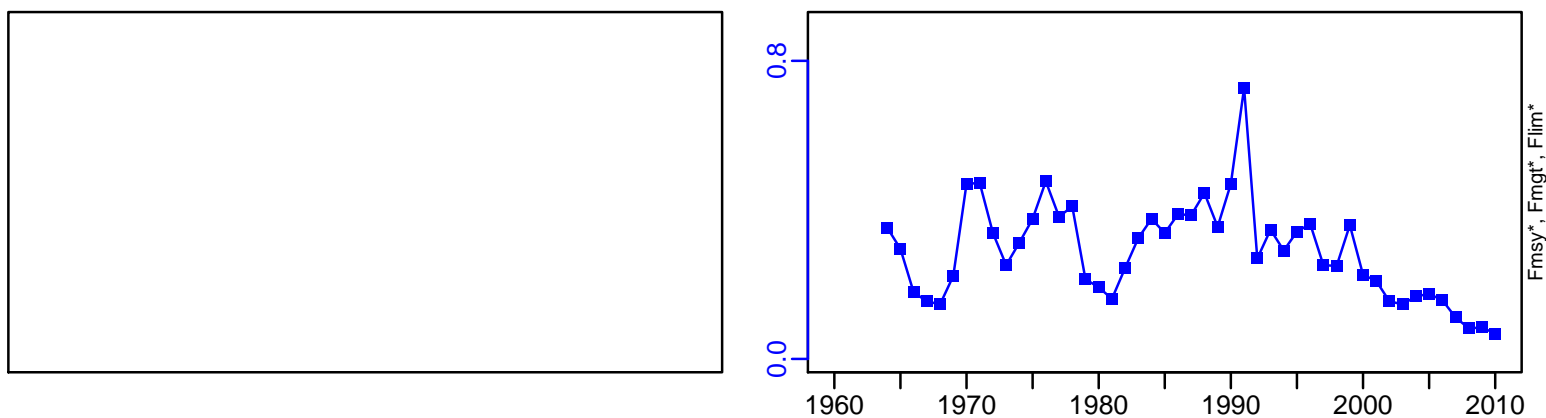


SSB-MT (1992–2015–ICESIMP2016)

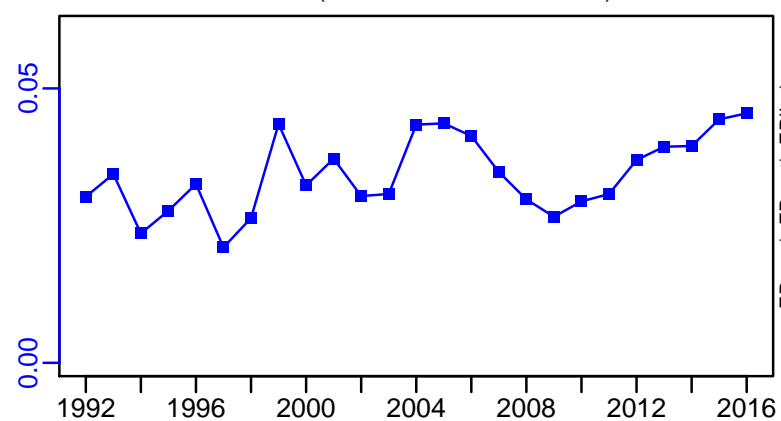


TN \*

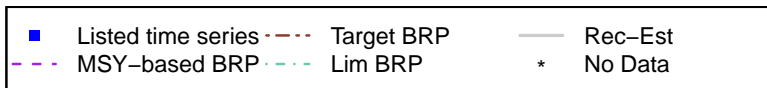
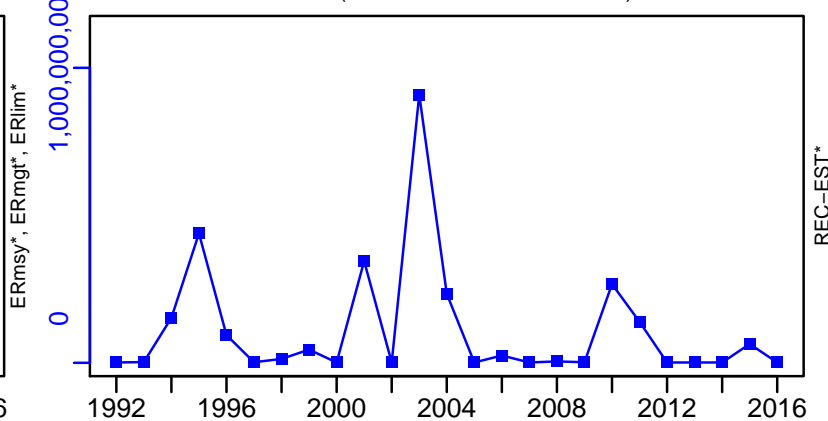
F-1/yr (1960–2010–NEUBAUER)



ER-ratio (1935–2016–ICESIMP2018)

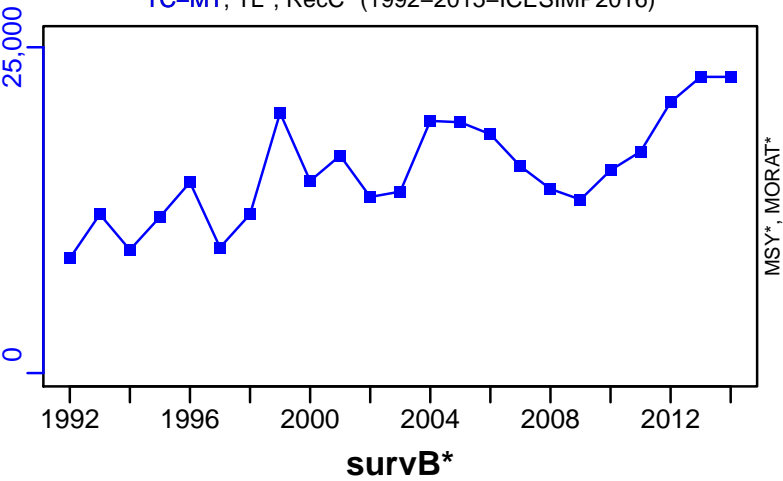


R-E00 (1935–2016–ICESIMP2018)



Greenland halibut North-East Arctic [GHALNEAR]

TC-MT, TL\*, RecC\* (1992-2015-ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



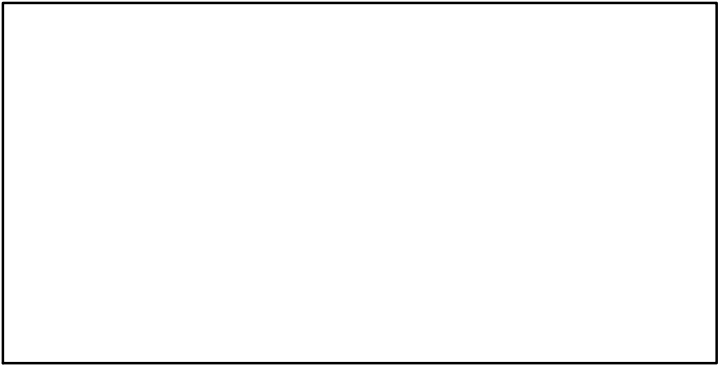
CPUE\*



EFFORT\*



CdivMSY\*



## Golden redfish North-East Arctic [GOLDREDNEAR]

Metadata	
<b>Scientific Name</b>	Sebastes norvegicus
<b>Current Assess ID</b>	AFWG-GOLDREDNEAR-1986-2017-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2010, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2017	0.052
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2017	0.052
<b>ERMgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2010	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	44,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

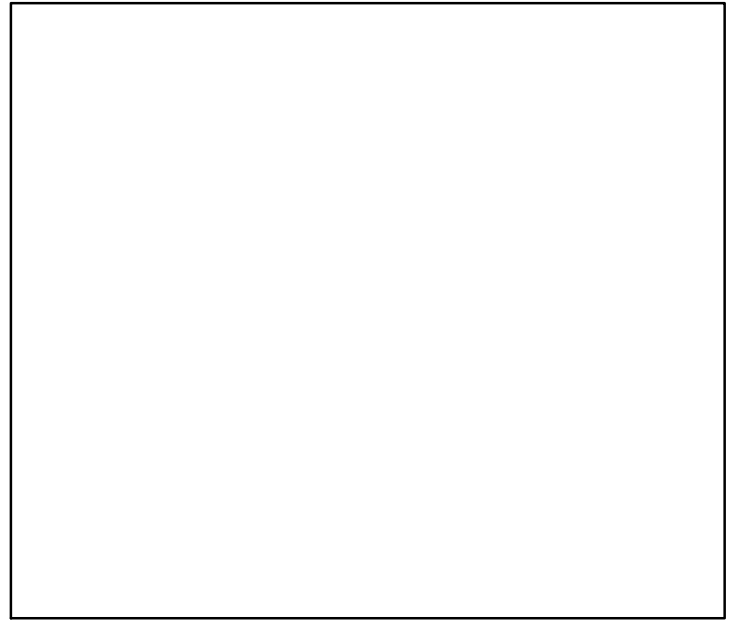
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	34,400	Both	-
<b>SSB</b>	SSB-MT	2017	22,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	30,000	-	3
<b>F</b>	F-1/yr	2017	0.305	-	15+
<b>ER</b>	ER-calc-ratio	2017	0.155	-	-
<b>TC</b>	TC-MT	2017	5340		
<b>TL</b>	TL-MT	2017	5340		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	5.81		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	5.81		
<b>ER/ERMgt</b>	-	-	-		

Golden redfish North-East Arctic [GOLDREDNEAR]

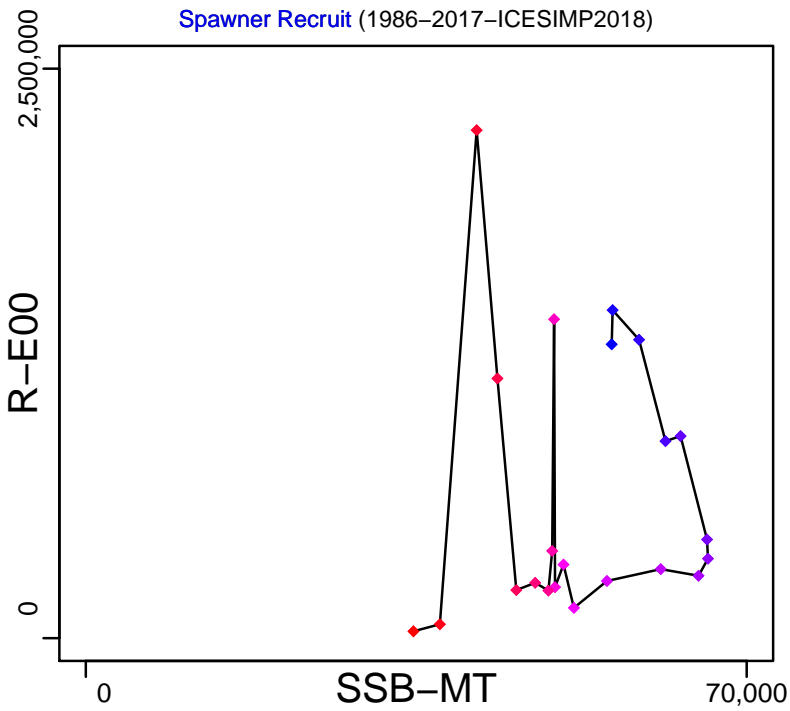
Kobe MSY\*



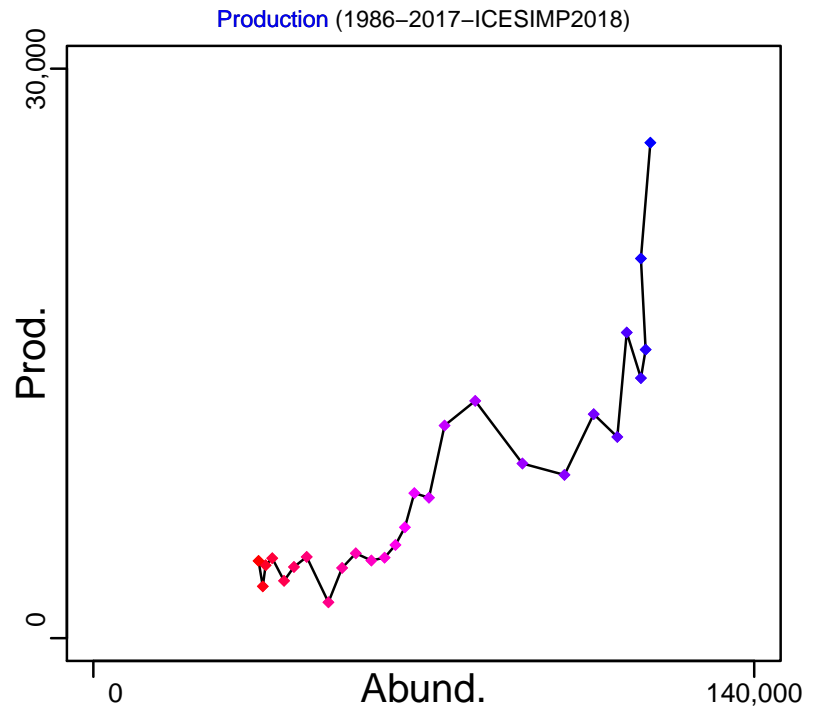
Kobe MGT\*



Spawner Recruit (1986–2017–ICESIMP2018)



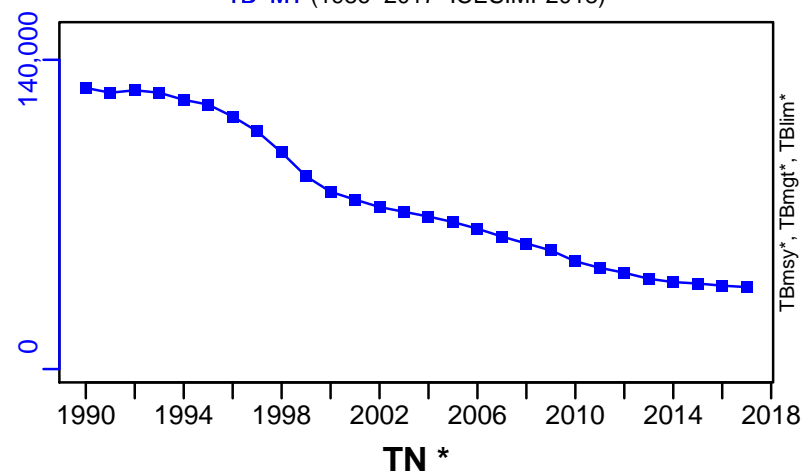
Production (1986–2017–ICESIMP2018)



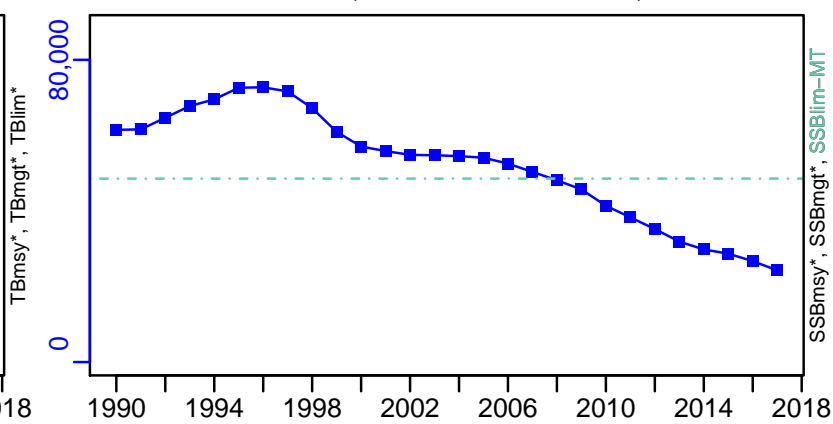
◆ Start Year ◆ End Year \* No Data

# Golden redfish North-East Arctic [GOLDREDNEAR]

TB-MT (1986–2017–ICESIMP2018)



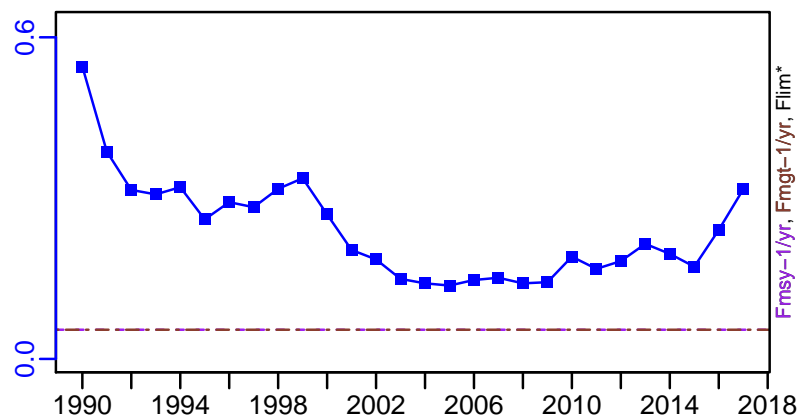
SSB-MT (1986–2017–ICESIMP2018)



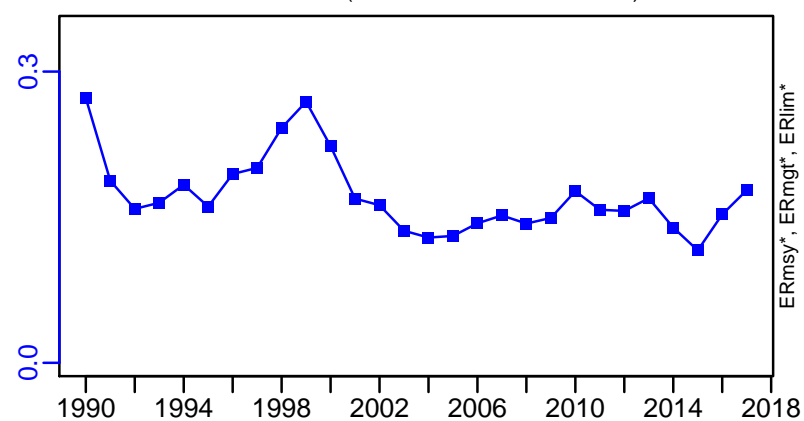
TN \*



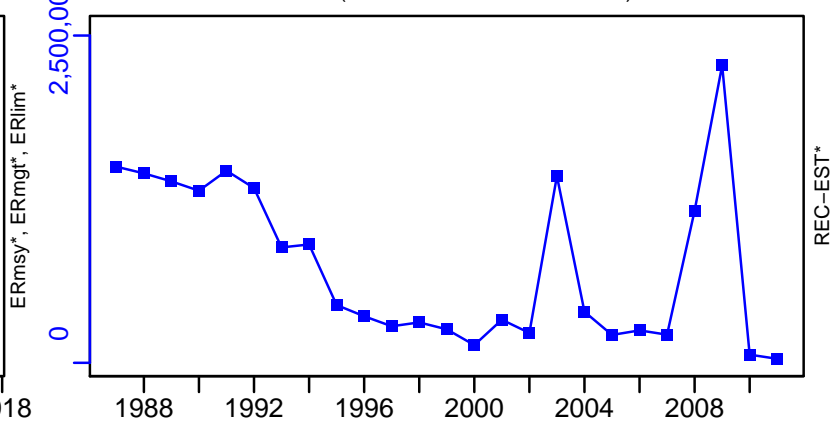
F-1/yr (1986–2017–ICESIMP2018)



ER-calc-ratio (1986–2017–ICESIMP2018)



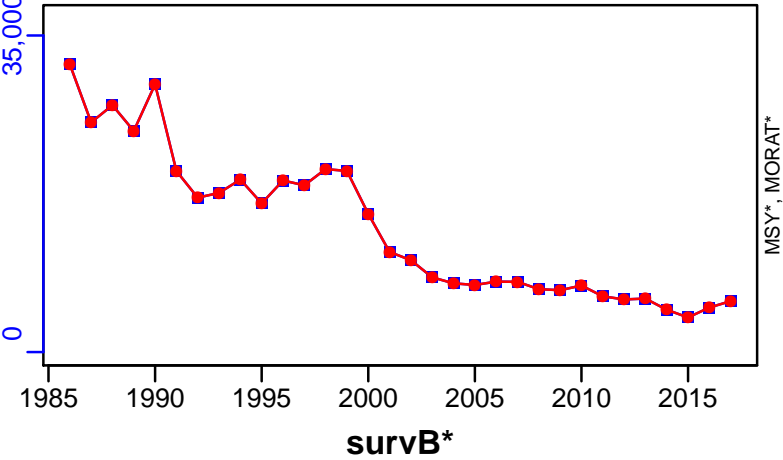
R-E00 (1986–2017–ICESIMP2018)





Golden redfish North-East Arctic [GOLDREDNEAR]

TC-MT, TL-MT, RecC\* (1986-2017-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



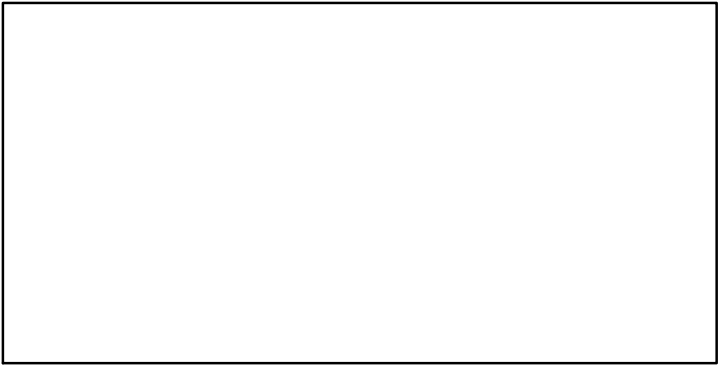
CPUE\*



EFFORT\*



CdivMSY\*



## Greater silver smelt ICES 5a-14 [GSSMELTVa-XIV]

Metadata	
<b>Scientific Name</b>	Argentina silus
<b>Current Assess ID</b>	WGDEEP-GSSMELTVa-XIV-2000-2017-ICESIMP2018
<b>Area</b>	ICES 5a-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2016, 2017

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	F-1/yr	2016	0.075	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	6060		
TL	TL-MT	2017	3950		
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

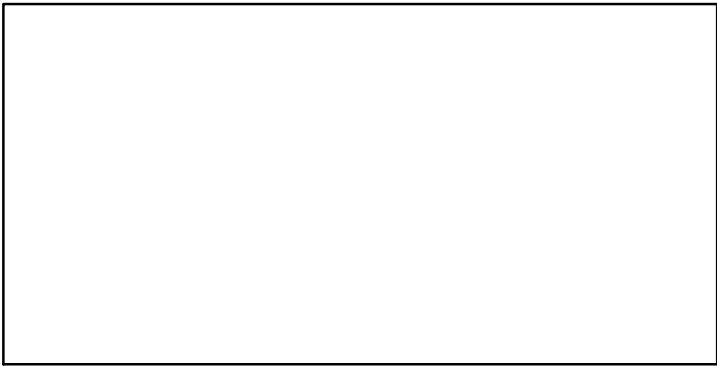
TB\*



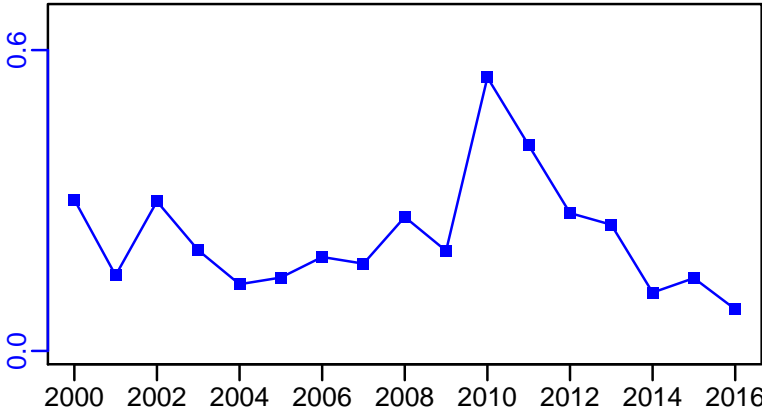
SSB\*



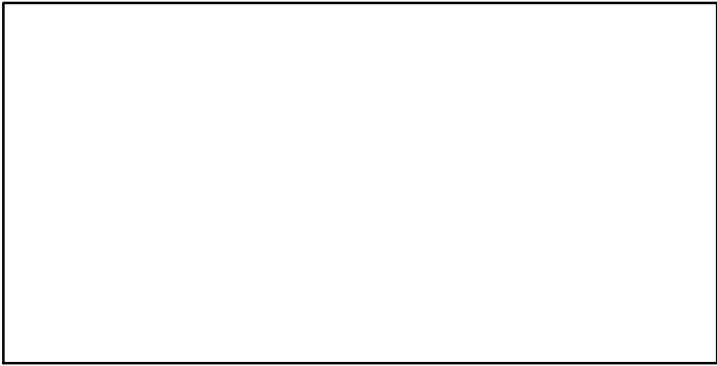
TN \*



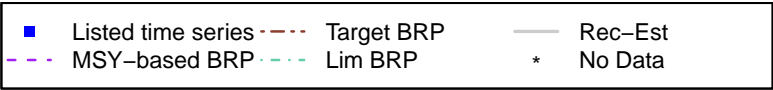
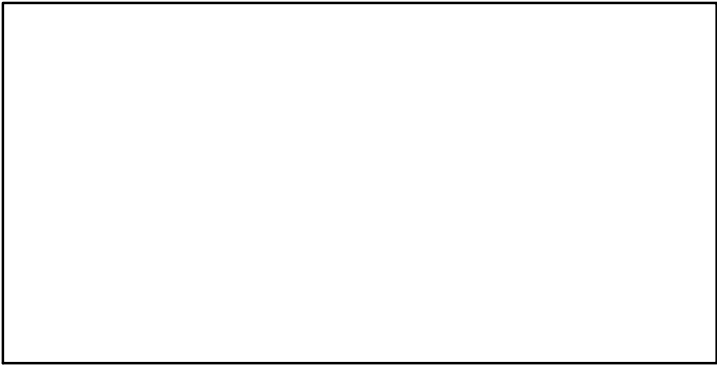
F-1/yr (2000-2016-ICESIMP2018)



ER\*

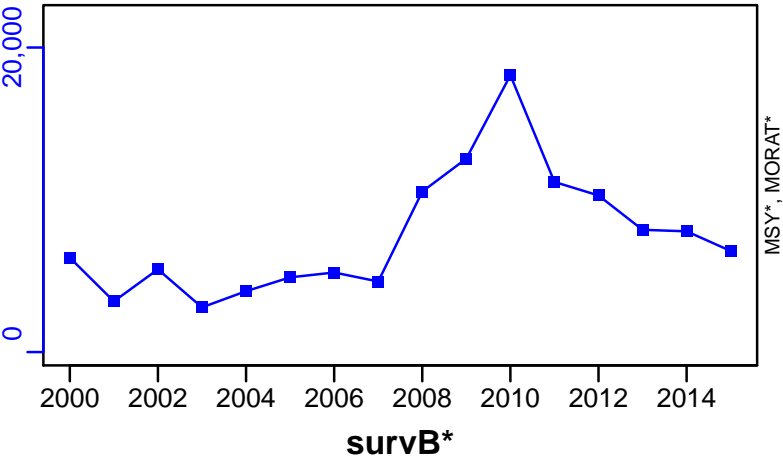


Recruits\*



Greater silver smelt ICES 5a-14 [GSSMELTVa-XIV]

TC-MT, TL\*, RecC\* (2000-2016-ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



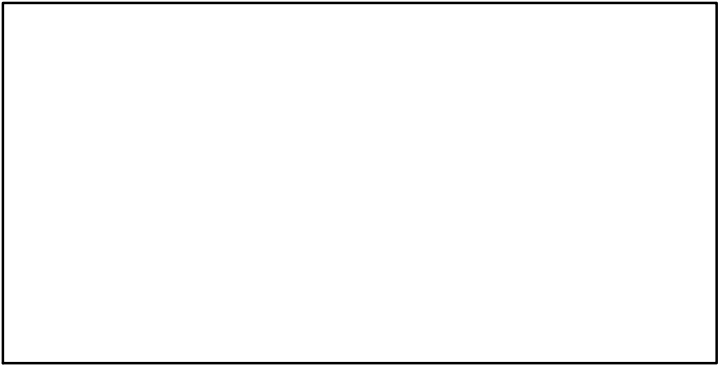
CPUE\*



EFFORT\*



CdivMSY\*



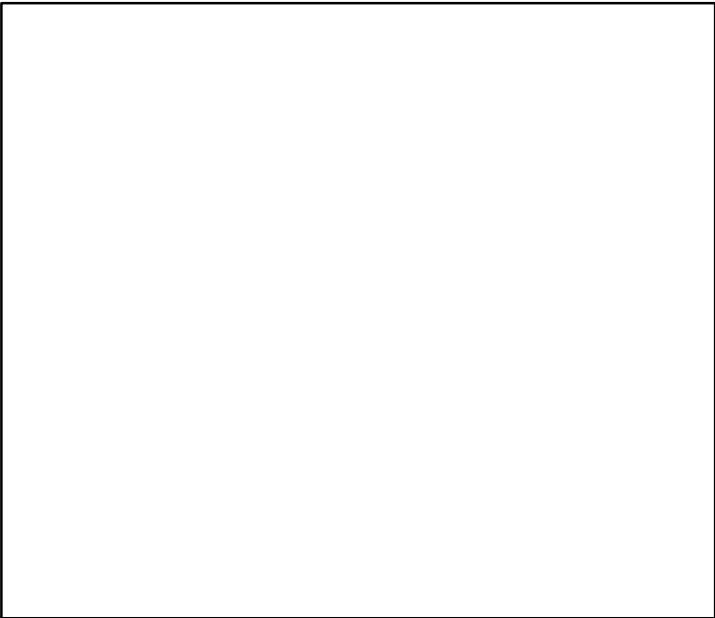
## Greater silver smelt ICES 5b-4a [GSSMELTVb-VIa]

Metadata	
<b>Scientific Name</b>	Argentina silus
<b>Current Assess ID</b>	WGDEEP-GSSMELTVb-VIa-1988-2016-ICESIMP2018
<b>Area</b>	ICES 5b-4a
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 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	SSB-index	2014	20	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	18,000		
TL	TL-MT	2016	16,300		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

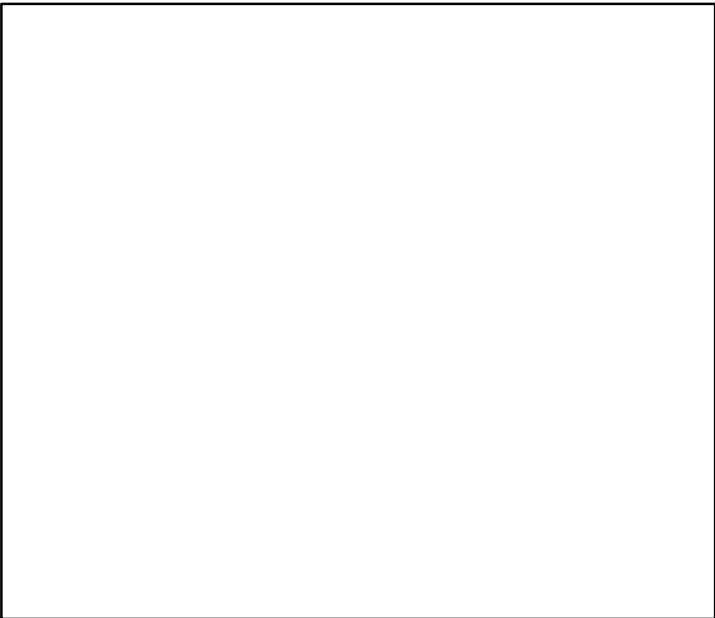
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



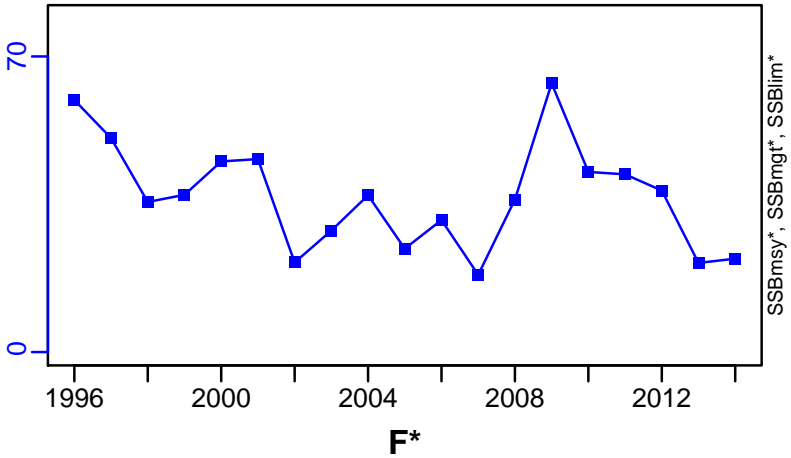
◆ Start Year   ◆ End Year   \* No Data

Greater silver smelt ICES 5b-4a [GSSMELTVb-VIa]

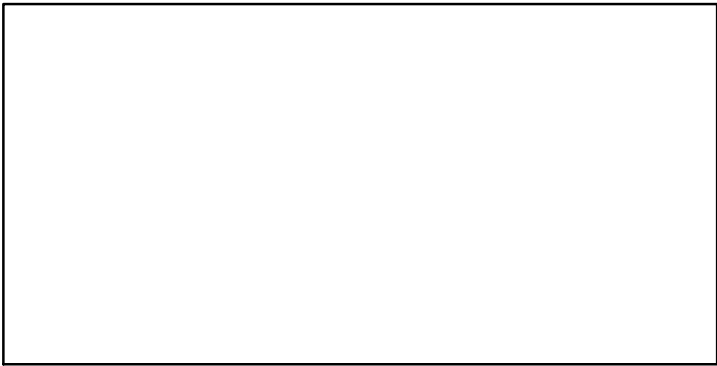
TB\*



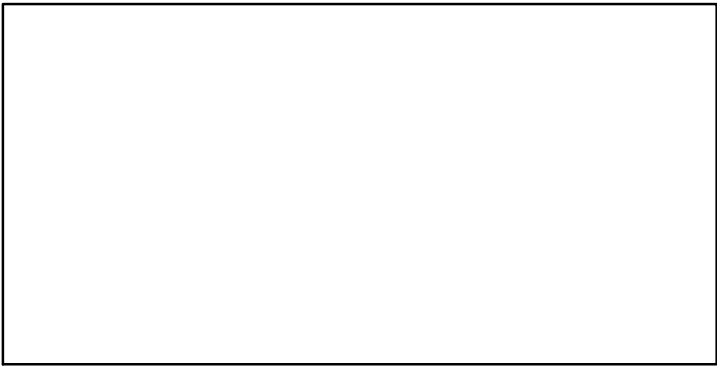
SSB-index (1988-2014-ICESIMP2018)



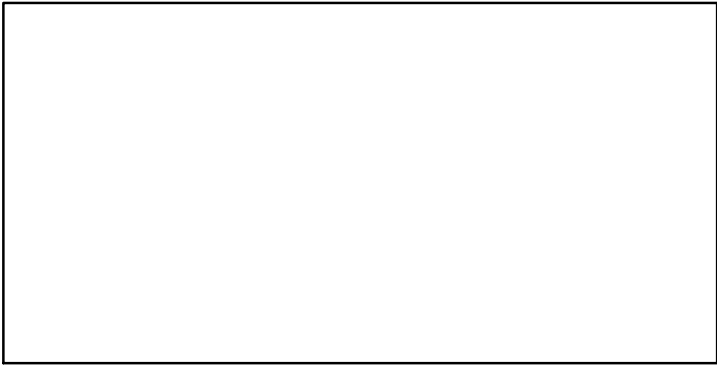
TN \*



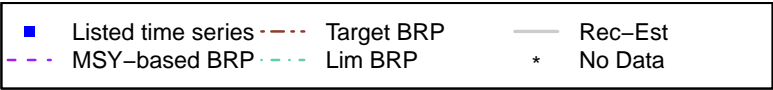
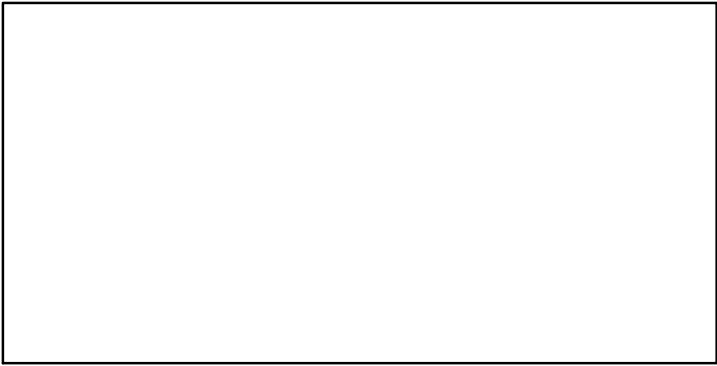
F\*



ER\*



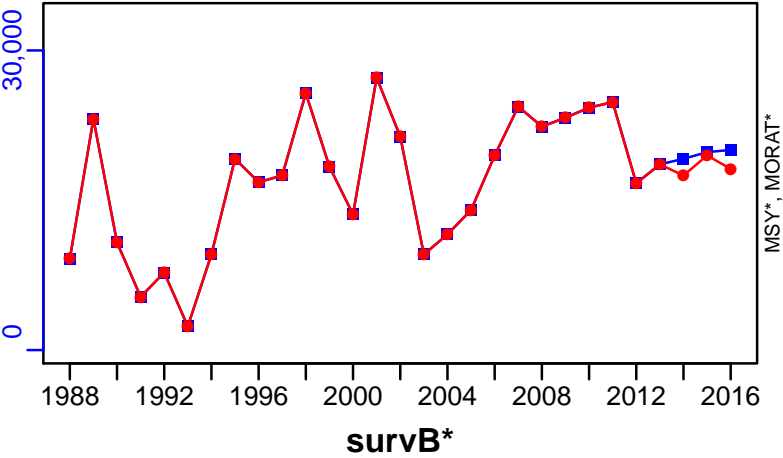
Recruits\*





Greater silver smelt ICES 5b-4a [GSSMELTVb-VIa]

TC-MT, TL-MT, RecC\* (1988-2016-ICESIMP2018)



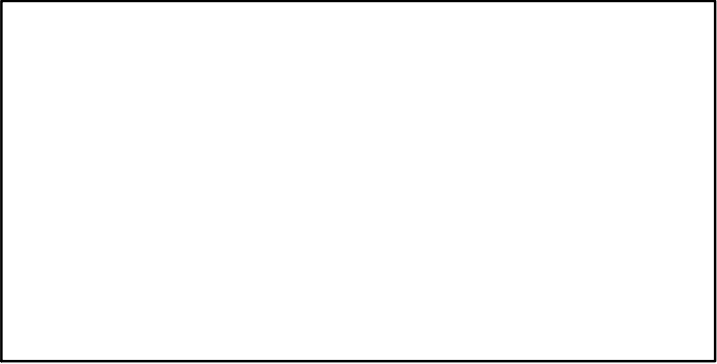
TAC\*, Cpair\*, Cadv\*



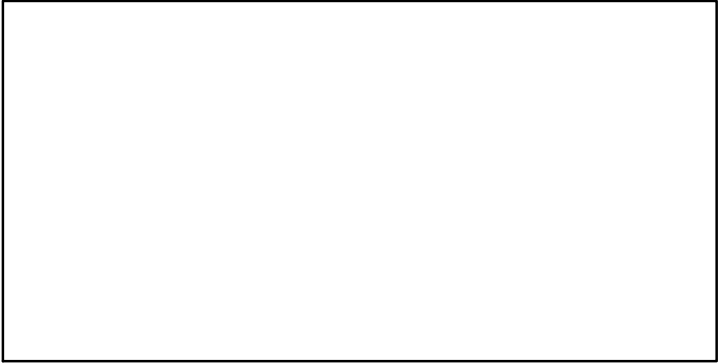
CPUE\*



EFFORT\*



CdivMSY\*



## Haddock Faroe Plateau [HADFAPL]

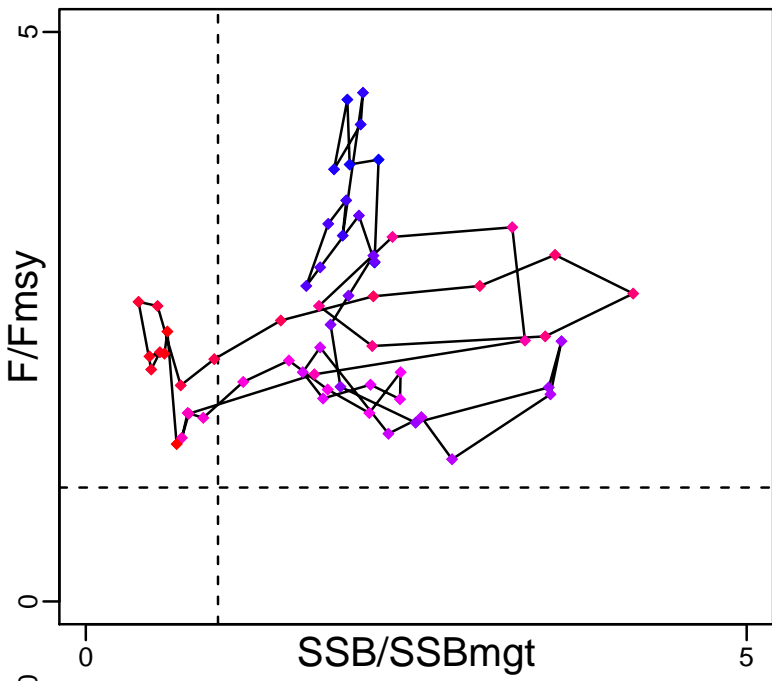
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADFAPL-1956-2018-ICESIMP2018
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.165
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	22,843
<b>Fmgt</b>	Fmgt-1/yr	2018	0.165
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	35,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	16,780
<b>Flim</b>	Flim-1/yr	2018	0.54
<b>ERlim</b>	-	-	-

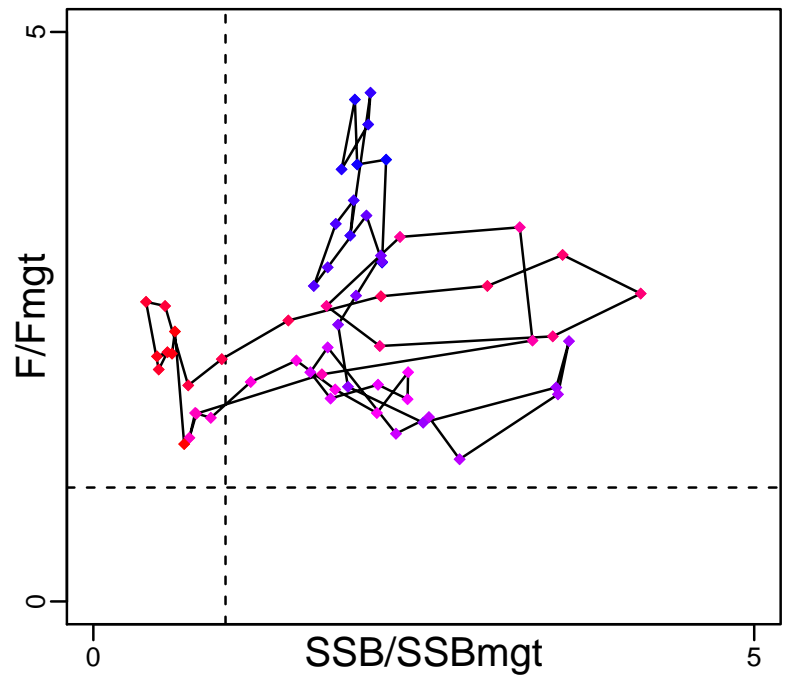
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	87,500	Both	-
<b>SSB</b>	SSB-MT	2018	25,300	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$1.11 \times 10^8$	-	1
<b>F</b>	F-1/yr	2018	0.228	-	3 to 7
<b>ER</b>	ER-calc-ratio	2018	0.074	-	-
<b>TC</b>	TC-MT	2018	2850		
<b>TL</b>	TL-MT	2018	2850		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.382		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	1.108		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	1.382		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Faroe Plateau [HADFAPL]

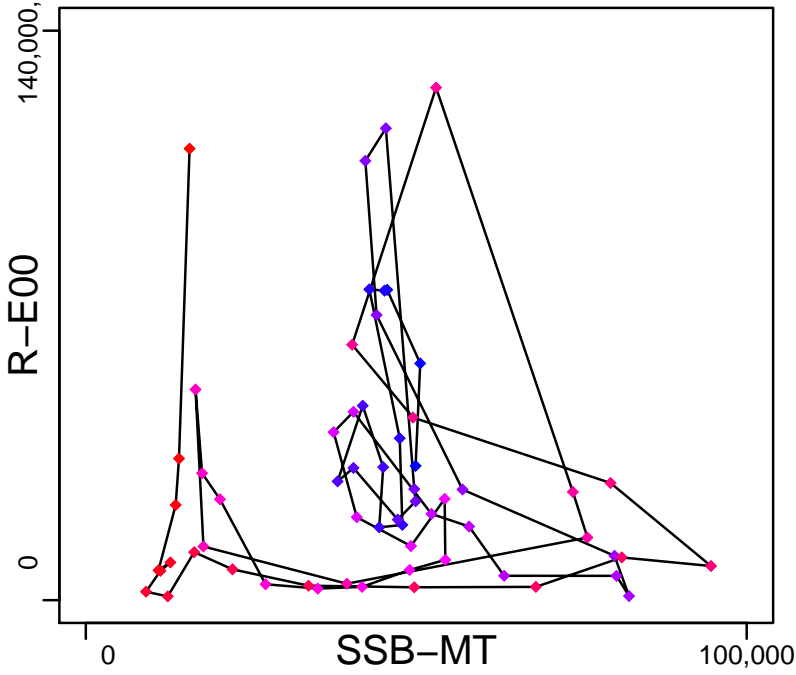
Kobe MSYpref (1956–2018–ICESIMP2018)



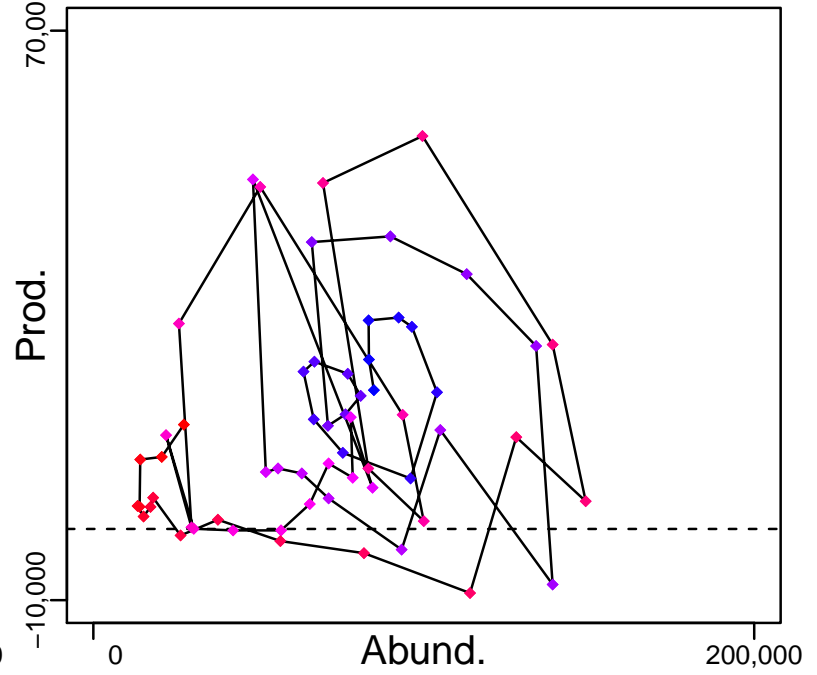
Kobe MGTpref (1956–2018–ICESIMP2018)



Spawner Recruit (1956–2018–ICESIMP2018)



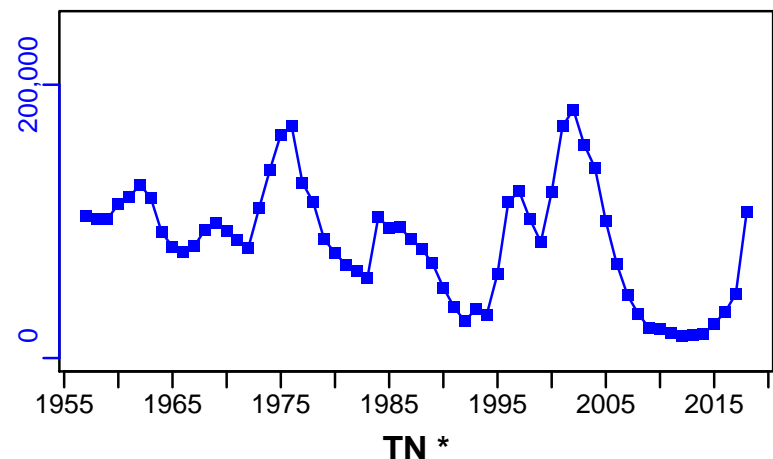
Production (1956–2018–ICESIMP2018)



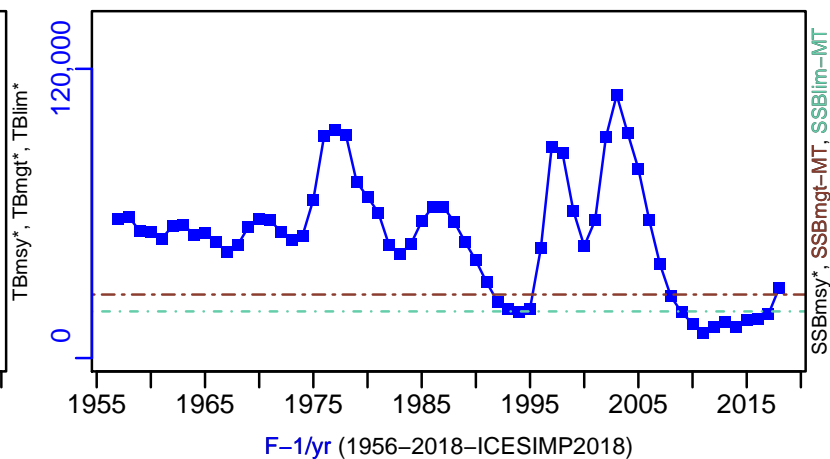
◆ Start Year ◆ End Year \* No Data

# Haddock Faroe Plateau [HADFAPL]

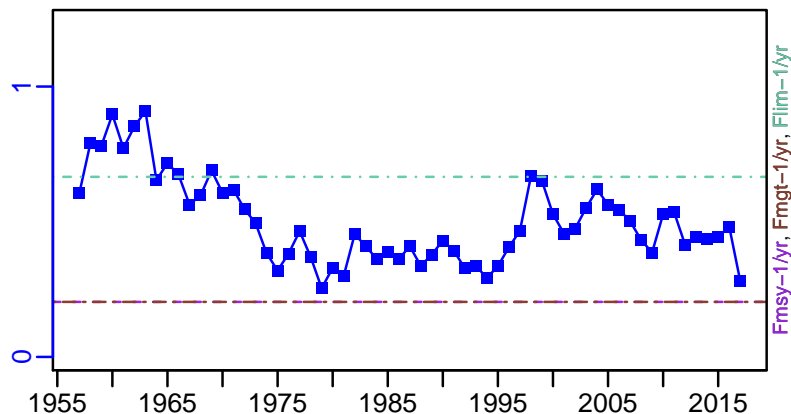
TB-MT (1956–2018–ICESIMP2018)



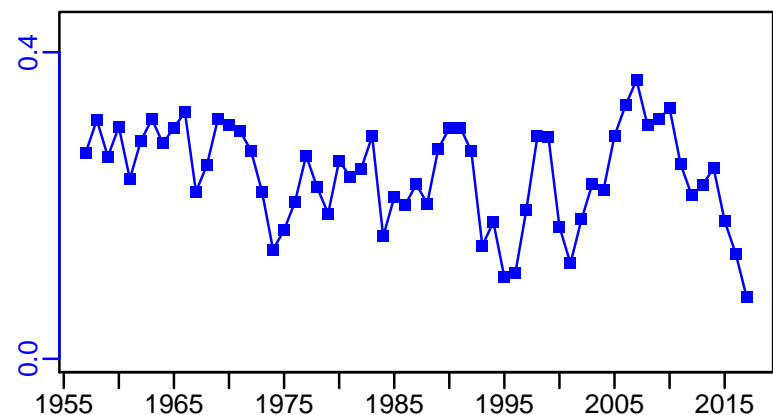
SSB-MT (1956–2018–ICESIMP2018)



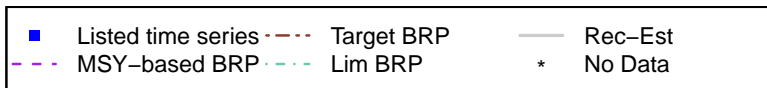
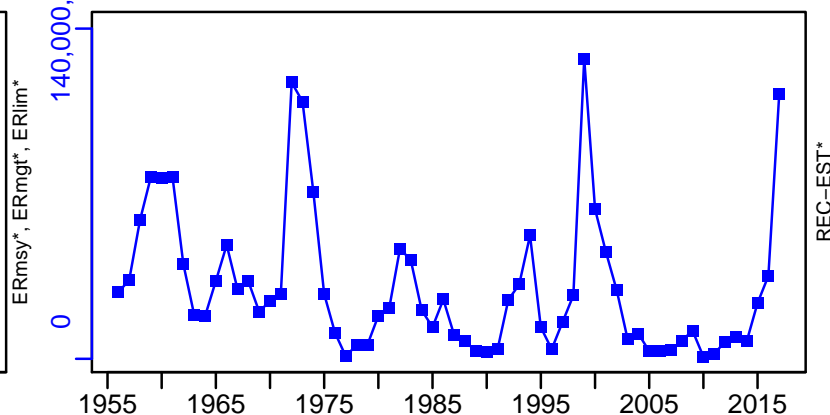
F-1/yr (1956–2018–ICESIMP2018)



ER-calc-ratio (1956–2018–ICESIMP2018)

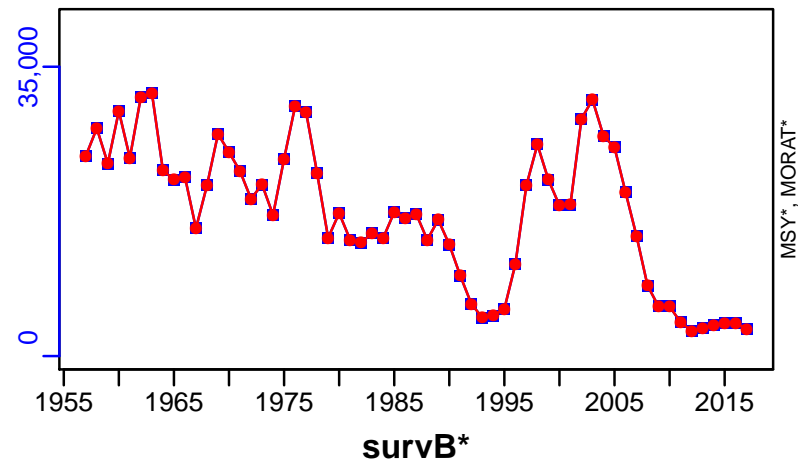


R-E00 (1956–2018–ICESIMP2018)



# Haddock Faroe Plateau [HADFAPL]

TC-MT, TL-MT, RecC\* (1956–2018–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



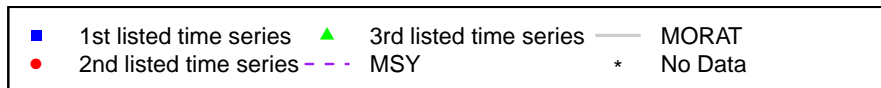
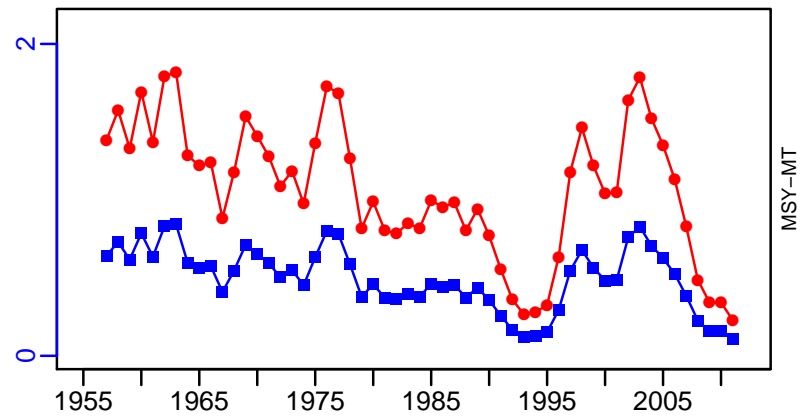
CPUE\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1955–2012–CHING)



## Haddock Iceland Grounds [HADICE]

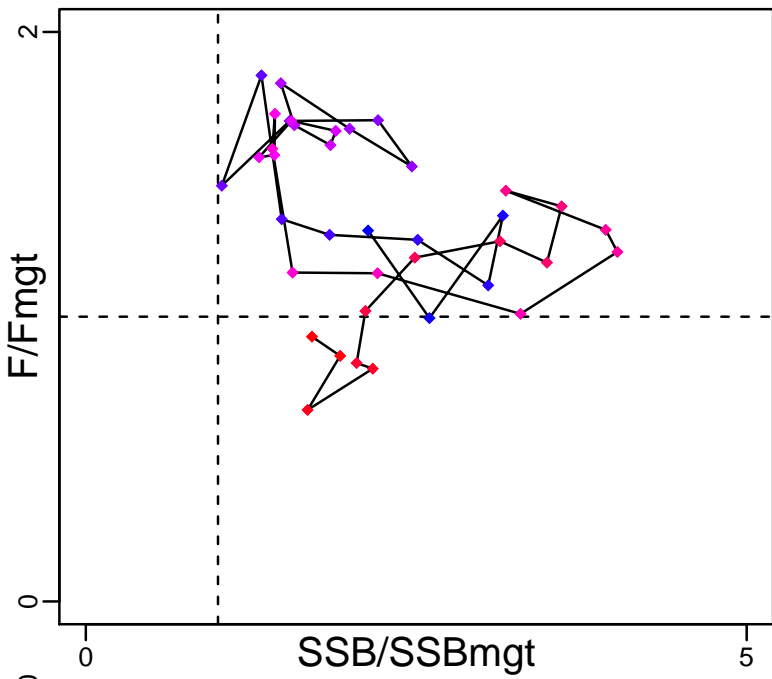
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADICE-1979-2018-ICESIMP2018
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2017	45,000
<b>Fmgt</b>	Fmgt-1/yr	2017	0.4
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2012	45,000
<b>SSBlim</b>	SSBlim-MT	2017	45,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

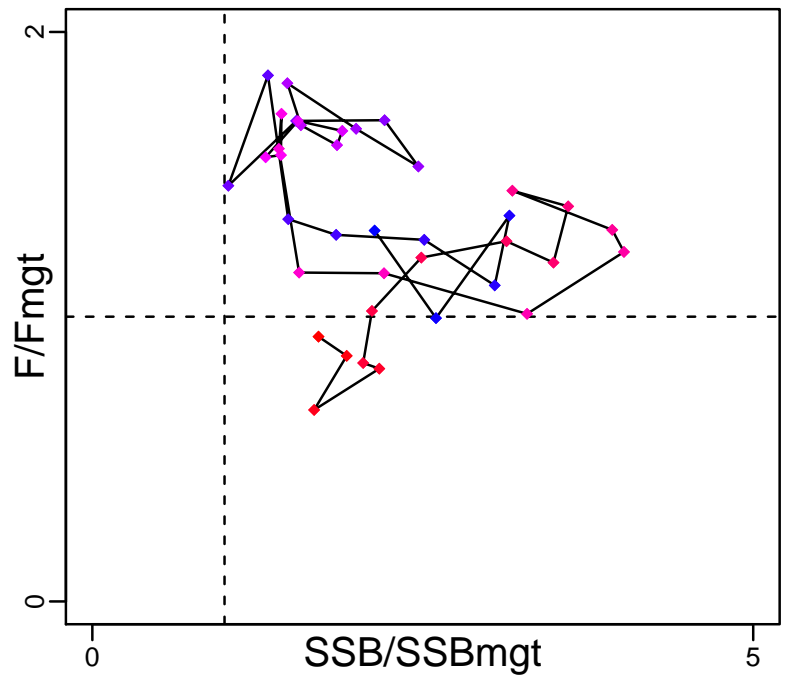
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	158,000	Both	-
<b>SSB</b>	SSB-MT	2017	76,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	52,200,000	-	2
<b>F</b>	F-1/yr	2017	0.372	-	4 to 7
<b>ER</b>	ER-calc-ratio	2018	0.275	-	-
<b>TC</b>	TC-MT	2018	37,100		
<b>TL</b>	TL-MT	2018	37,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2017	1.689		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	0.93		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Iceland Grounds [HADICE]

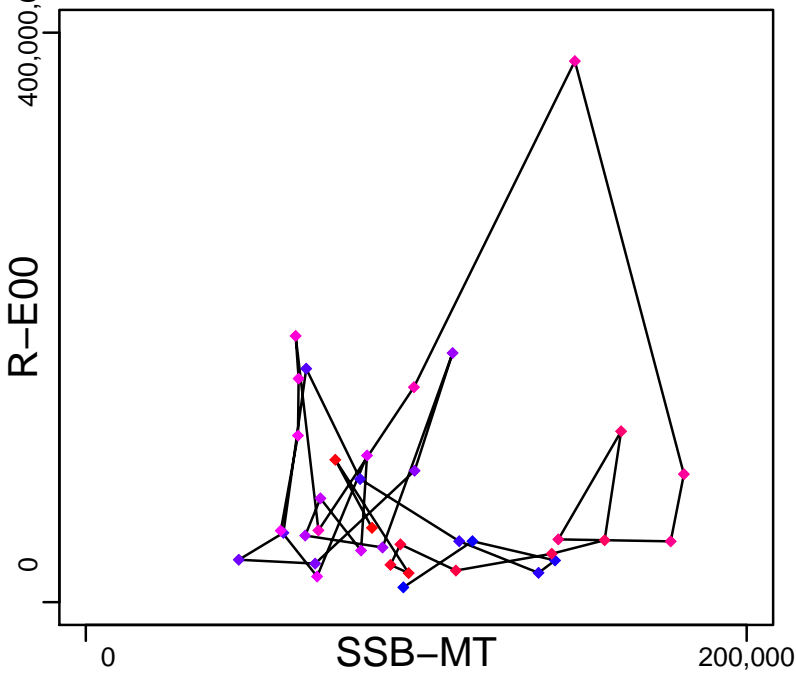
Kobe MSYpref (1977–2017–ICESIMP2018)



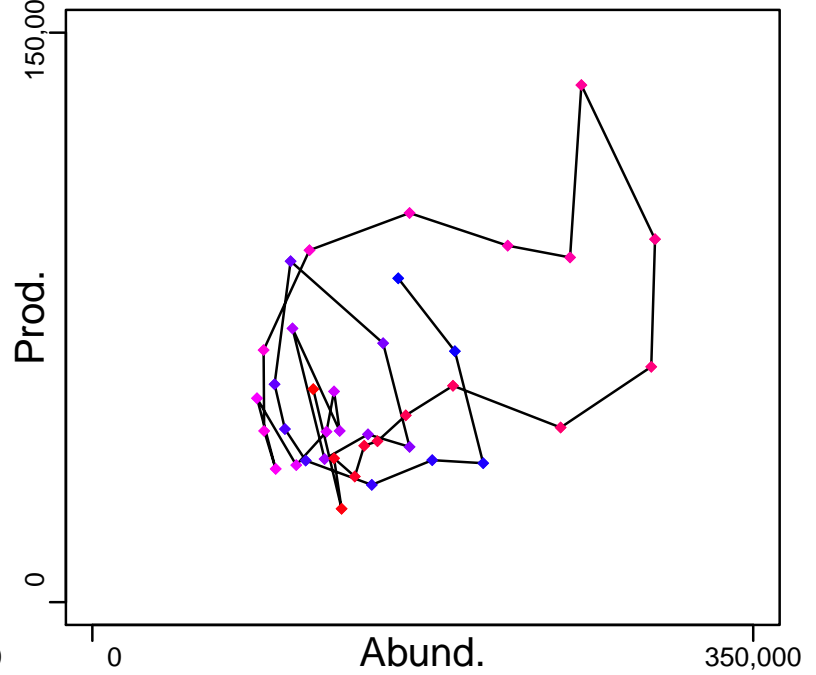
Kobe MGTpref (1977–2017–ICESIMP2018)



Spawner Recruit (1977–2017–ICESIMP2018)



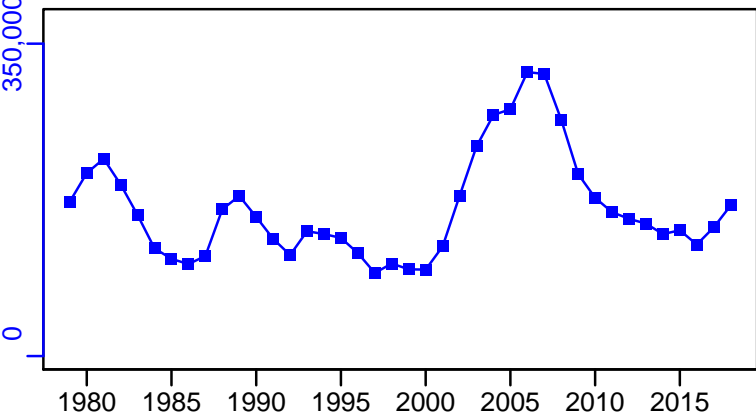
Production (1979–2018–ICESIMP2018)



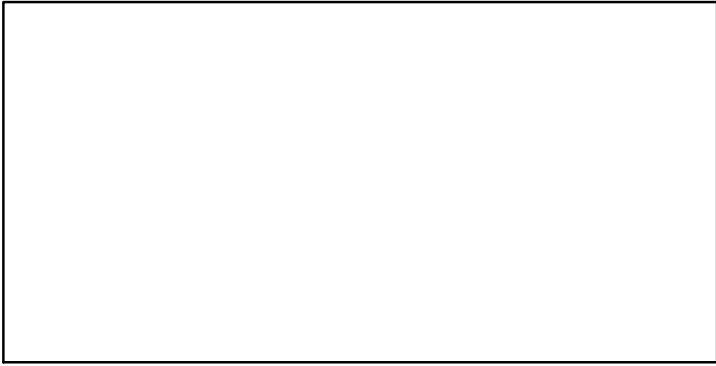
◆ Start Year ◆ End Year \* No Data

# Haddock Iceland Grounds [HADICE]

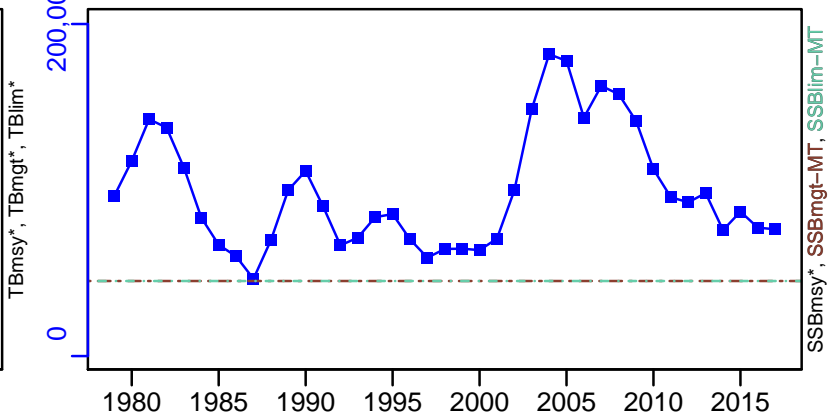
TB-MT (1979–2018–ICESIMP2018)



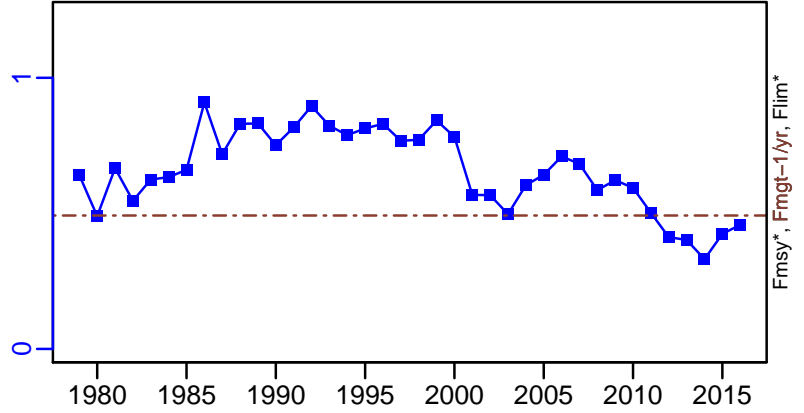
TN \*



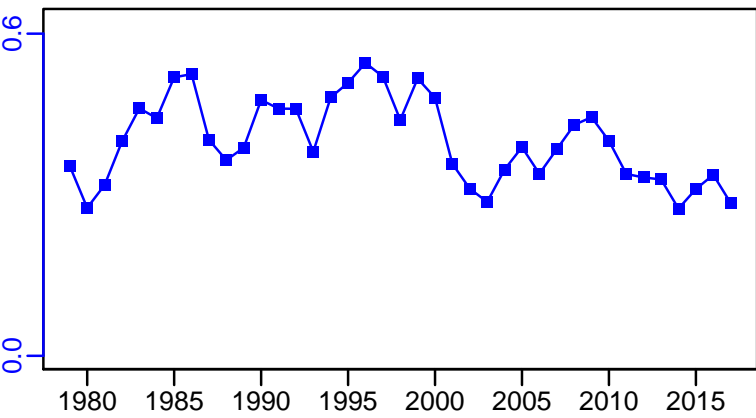
SSB-MT (1977–2017–ICESIMP2018)



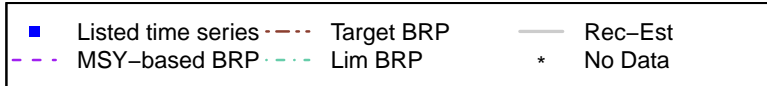
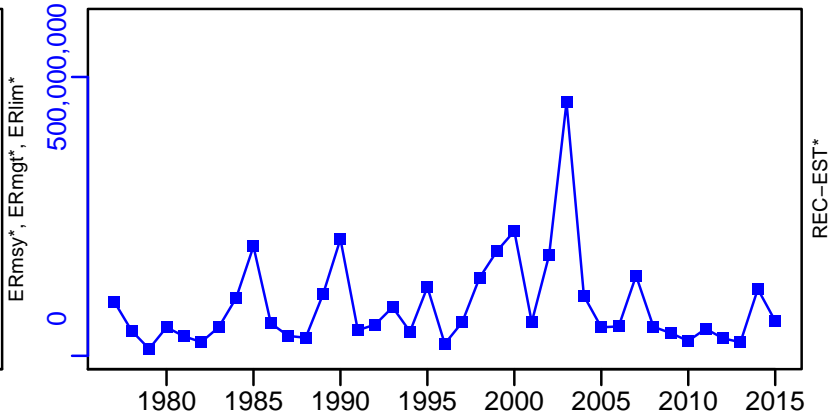
F-1/yr (1977–2017–ICESIMP2018)



ER-calc-ratio (1979–2018–ICESIMP2018)



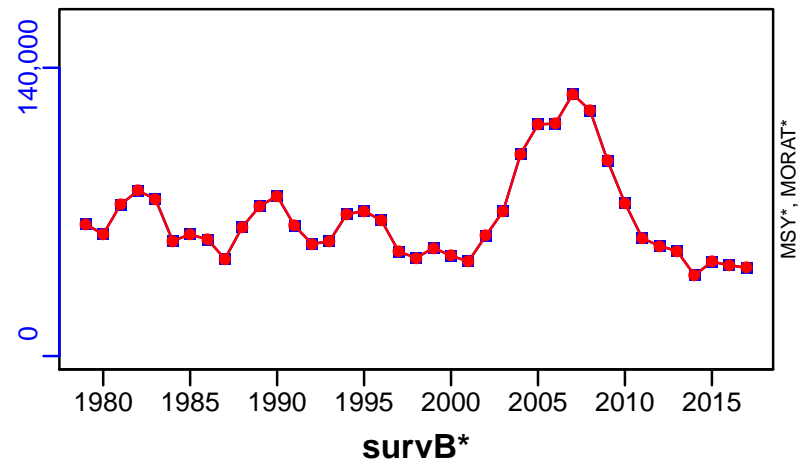
R-E00 (1977–2017–ICESIMP2018)





# Haddock Iceland Grounds [HADICE]

TC-MT, TL-MT, RecC\* (1979-2018-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



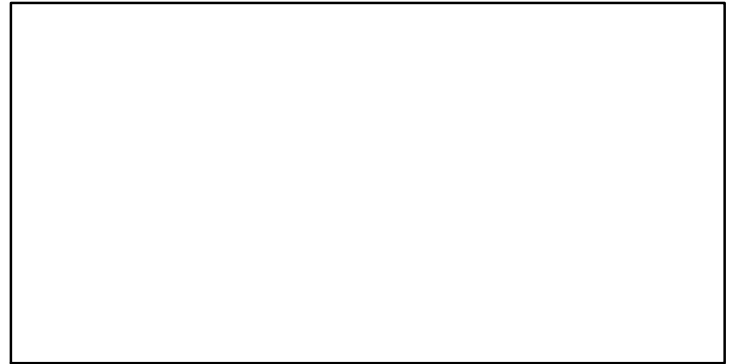
CPUE\*



EFFORT\*



CdivMSY\*



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

## Haddock North-East Arctic [HADNEAR]

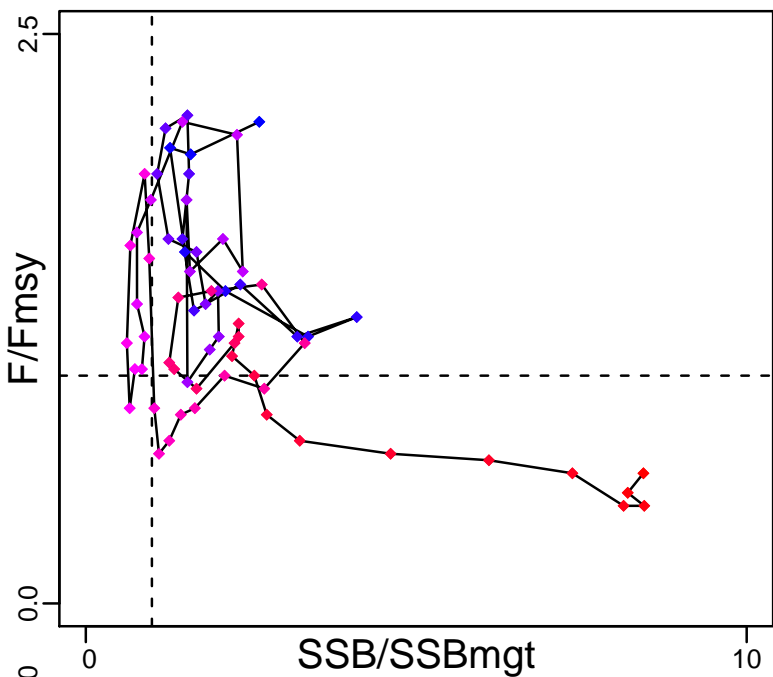
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	AFWG-HADNEAR-1947-2017-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2017	0.35
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2017	80,000
<b>Fmgt</b>	Fmgt-1/yr	2017	0.35
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	80,000
<b>Flim</b>	Flim-1/yr	2017	0.77
<b>ERlim</b>	-	-	-

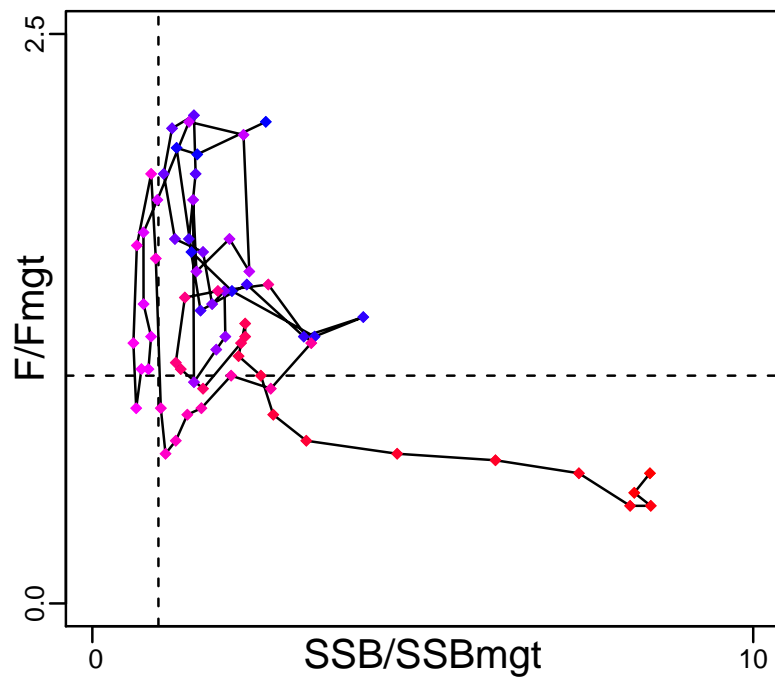
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	743,000	Both	-
<b>SSB</b>	SSB-MT	2017	538,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	$1.89 \times 10^8$	-	3
<b>F</b>	F-1/yr	2017	0.2	-	4 to 7
<b>ER</b>	ER-calc-ratio	2017	0.256	-	-
<b>TC</b>	TC-MT	2017	233,000		
<b>TL</b>	TL-MT	2017	233,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.571		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2017	6.725		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	0.571		
<b>ER/ERmgt</b>	-	-	-		

# Haddock North-East Arctic [HADNEAR]

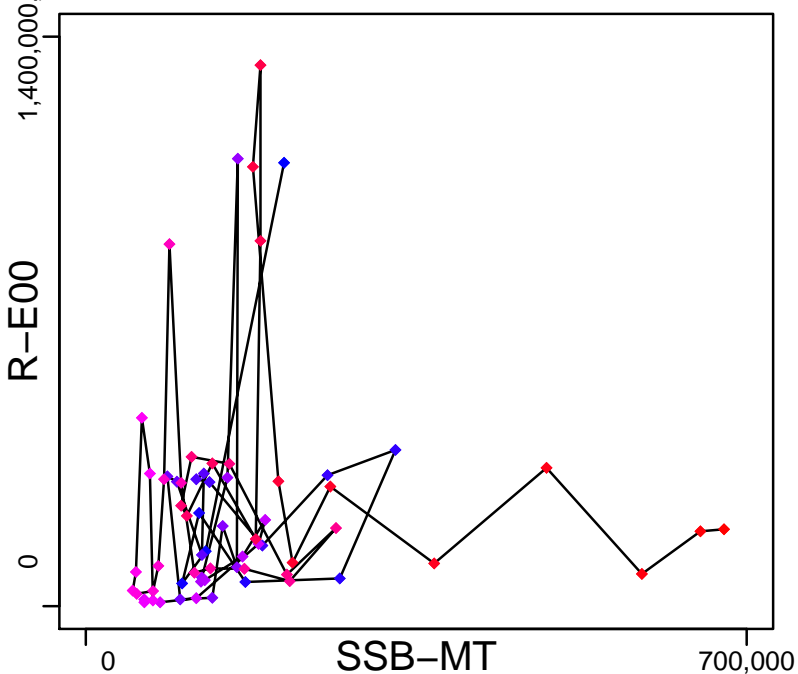
Kobe MSYpref (1947–2017–ICESIMP2018)



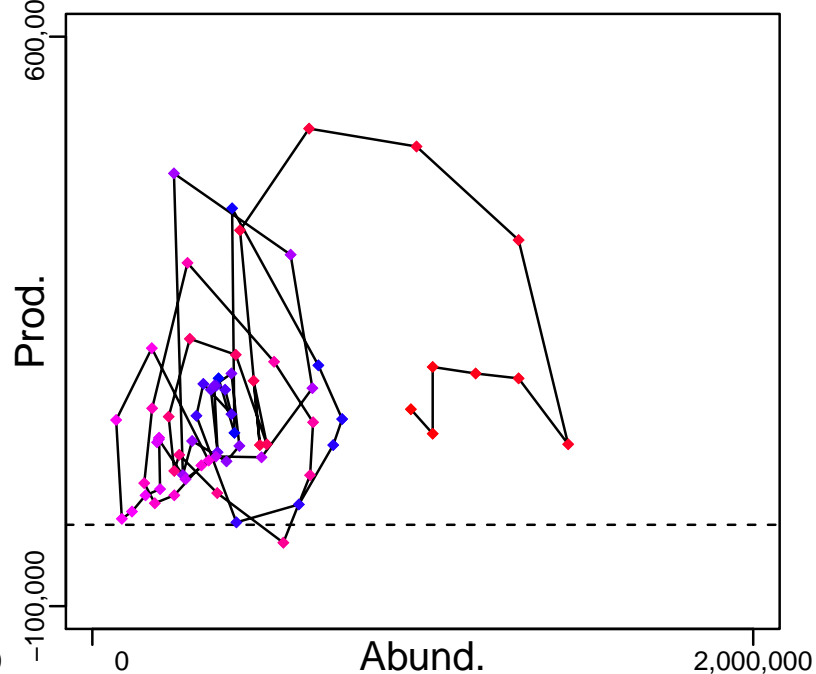
Kobe MGTpref (1947–2017–ICESIMP2018)



Spawner Recruit (1947–2017–ICESIMP2018)



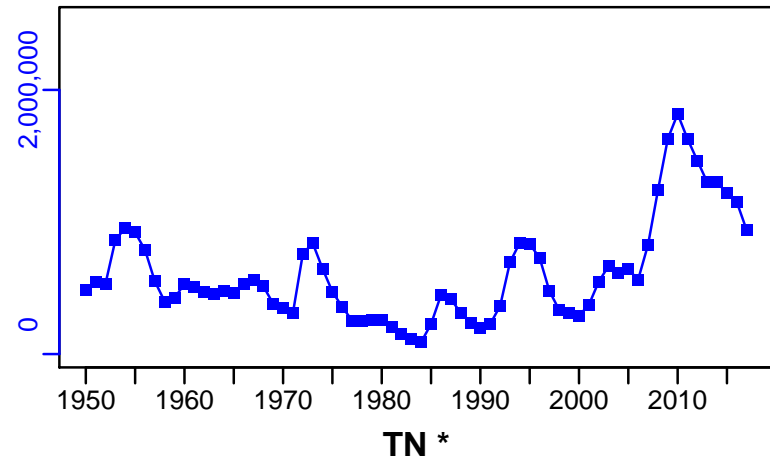
Production (1947–2017–ICESIMP2018)



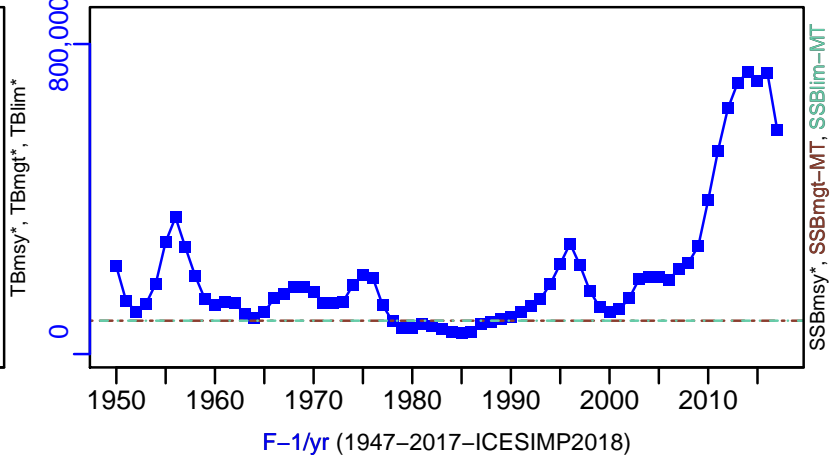
◆ Start Year ◆ End Year \* No Data

# Haddock North-East Arctic [HADNEAR]

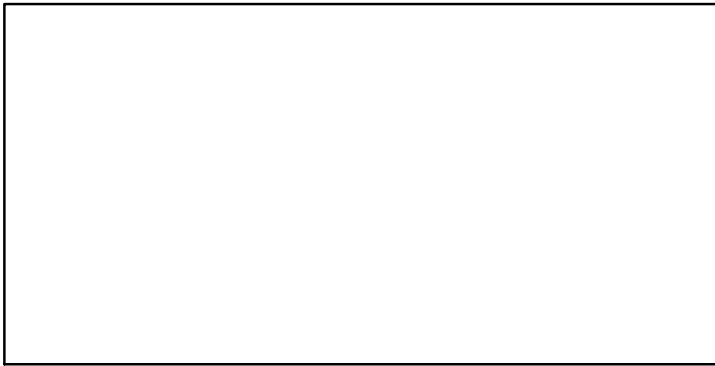
TB-MT (1947–2017–ICESIMP2018)



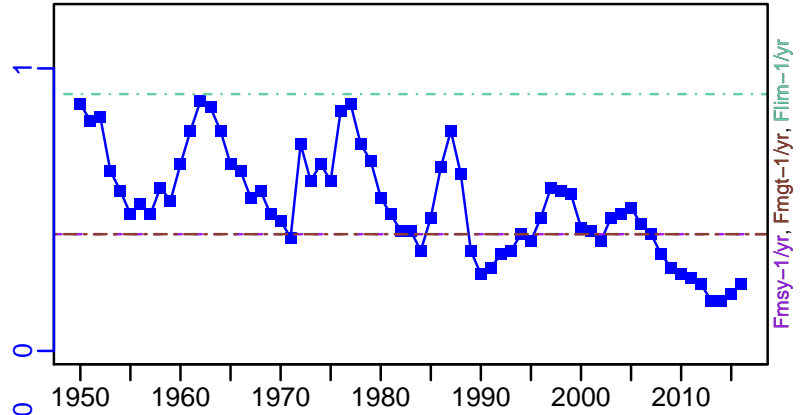
SSB-MT (1947–2017–ICESIMP2018)



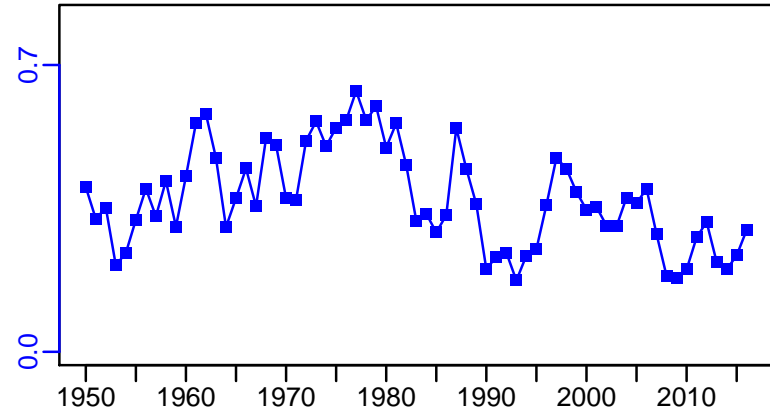
TN \*



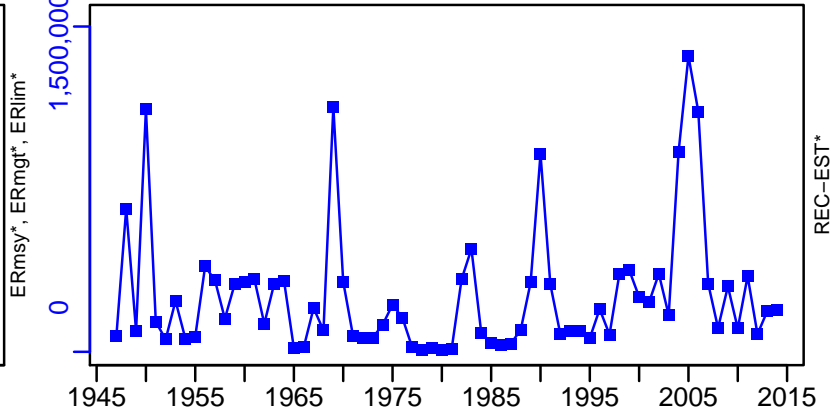
F-1/yr (1947–2017–ICESIMP2018)



ER-calc-ratio (1947–2017–ICESIMP2018)

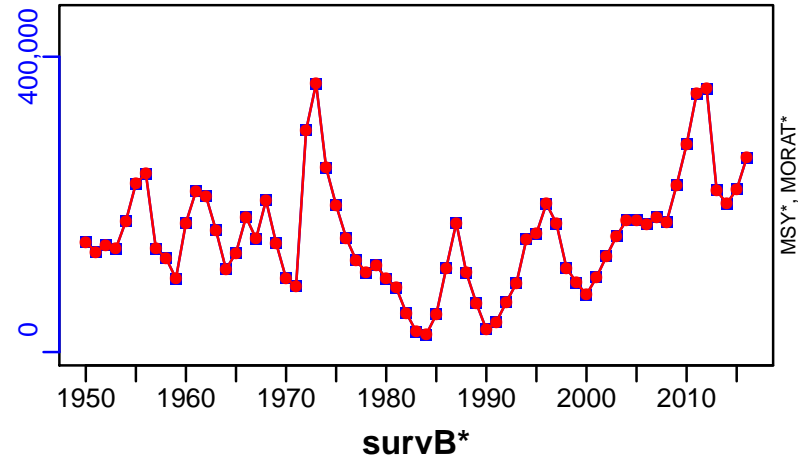


R-E00 (1947–2017–ICESIMP2018)



# Haddock North-East Arctic [HADNEAR]

TC-MT, TL-MT, RecC\* (1947-2017-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



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

## Herring Iceland (Summer spawners) [HERRIsum]

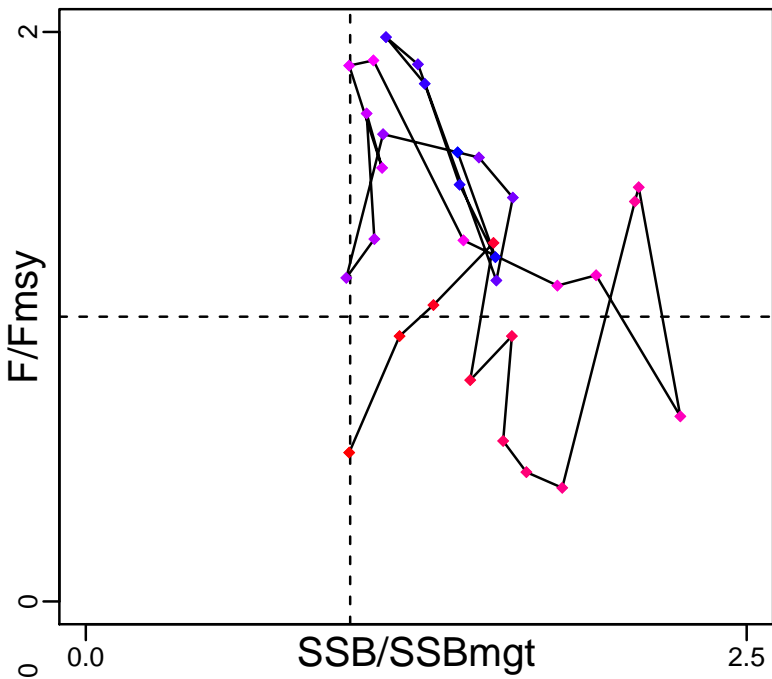
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	NWWG-HERRIsum-1984-2018-ICESIMP2018
<b>Area</b>	Iceland (Summer spawners)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2011, 2013, 2014, 2016, 2017, 2018, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.22
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	273,000
<b>Fmgt</b>	Fmgt-1/yr	2018	0.22
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	TBlim-MT	2011	$2 \times 10^5$
<b>SSBlim</b>	SSBlim-MT	2018	$2 \times 10^5$
<b>Flim</b>	Flim-1/yr	2018	0.61
<b>ERlim</b>	-	-	-

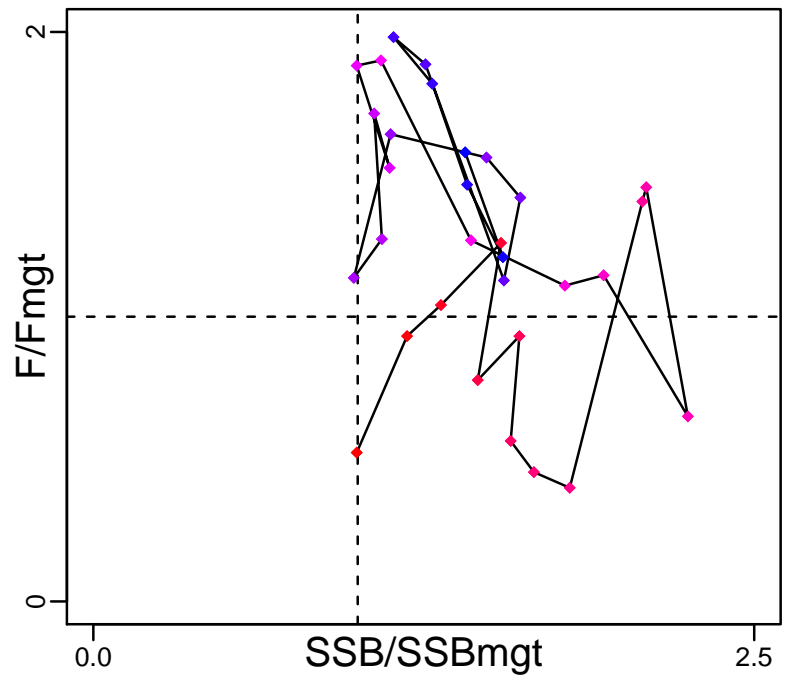
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	438,000	Both	3+
<b>SSB</b>	SSB-MT	2018	222,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$4.96 \times 10^8$	-	3
<b>F</b>	F-1/yr	2018	0.115	-	-
<b>ER</b>	ER-calc-ratio	2015	0.207	-	-
<b>TC</b>	TC-MT	2018	35,000		
<b>TL</b>	TL-MT	2018	35,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	0.523		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	0.813		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	0.523		
<b>ER/ERmgt</b>	-	-	-		

# Herring Iceland (Summer spawners) [HERRIsum]

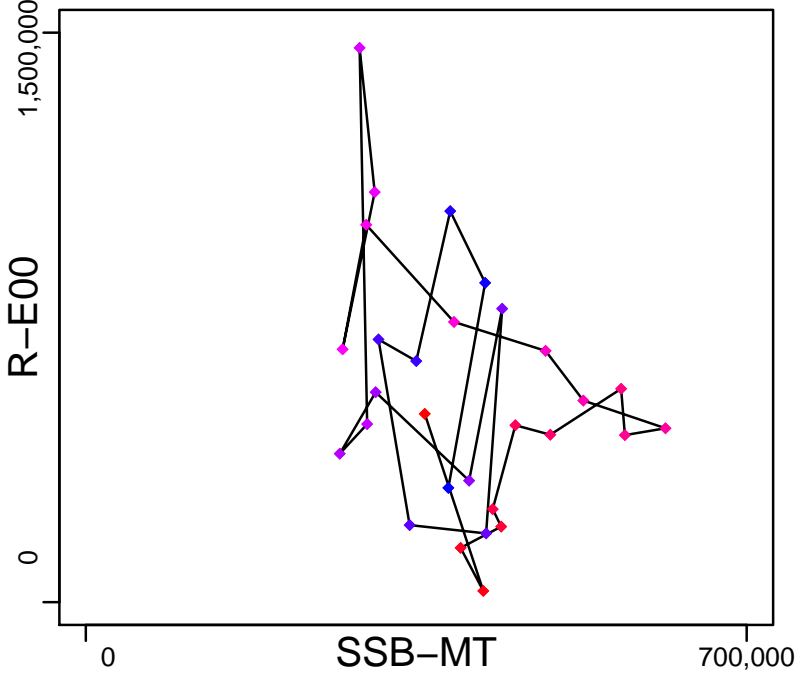
Kobe MSYpref (1984–2018–ICESIMP2018)



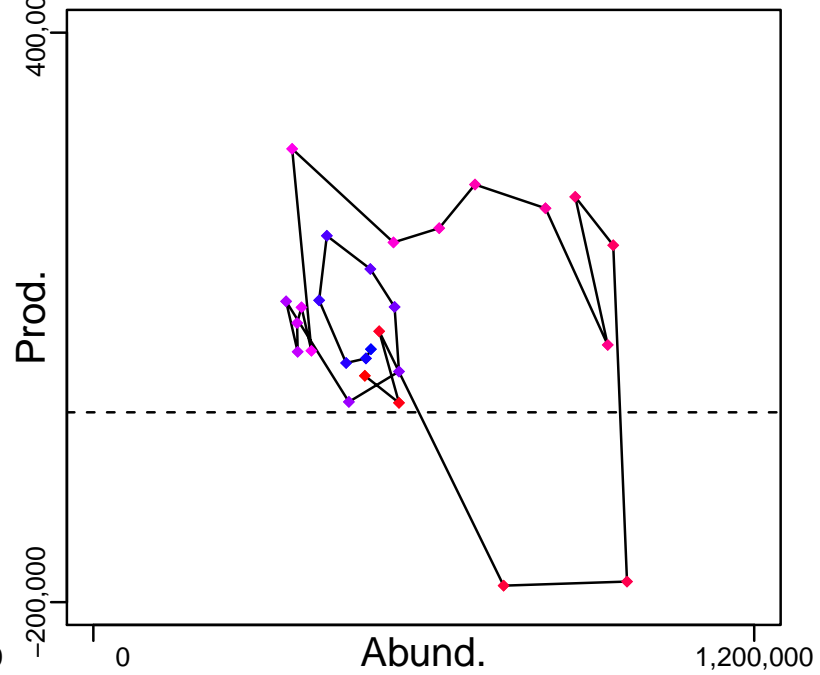
Kobe MGTpref (1984–2018–ICESIMP2018)



Spawner Recruit (1984–2018–ICESIMP2018)



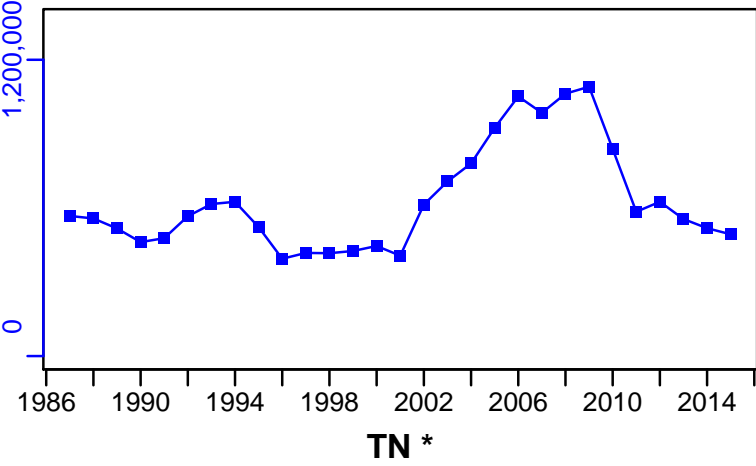
Production (1987–2015–ICESIMP2016)



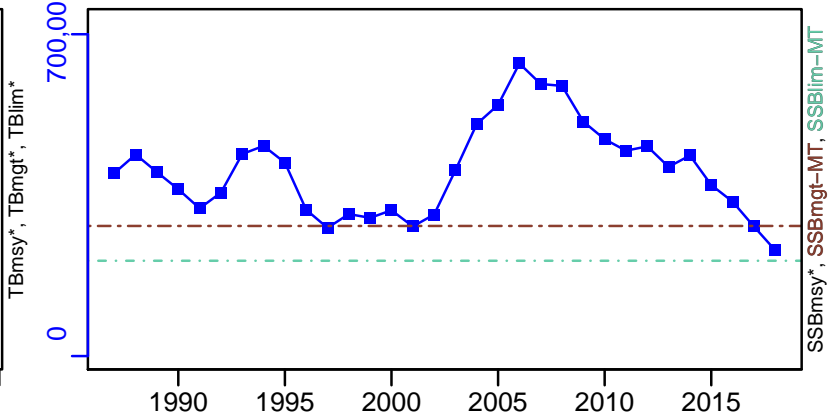
◆ Start Year ◆ End Year \* No Data

# Herring Iceland (Summer spawners) [HERRIsum]

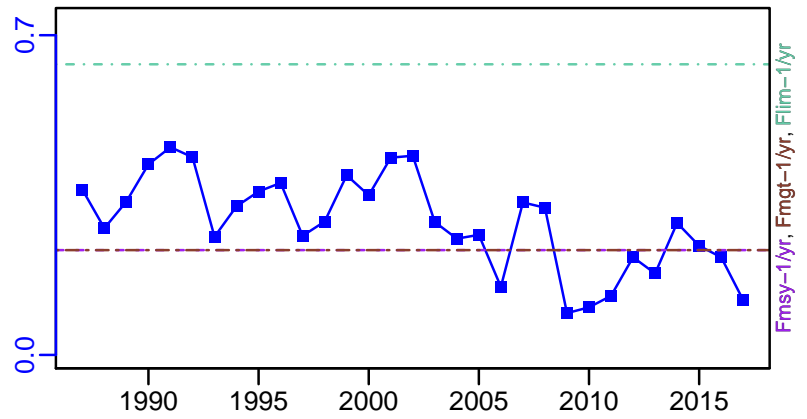
TB-MT (1987–2015–ICESIMP2016)



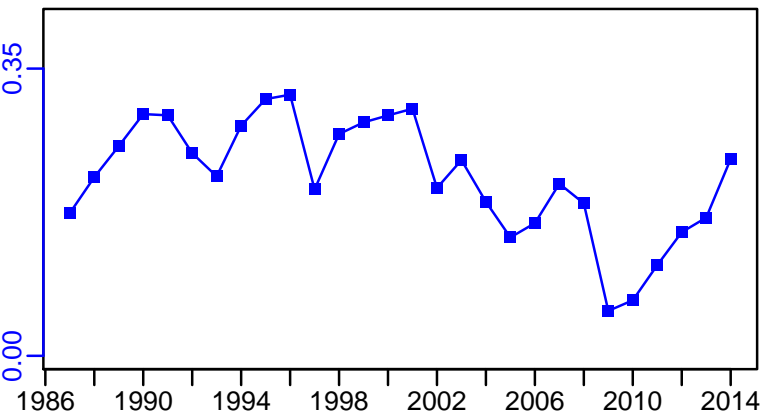
SSB-MT (1984–2018–ICESIMP2018)



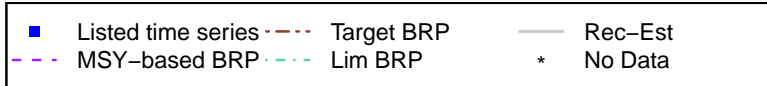
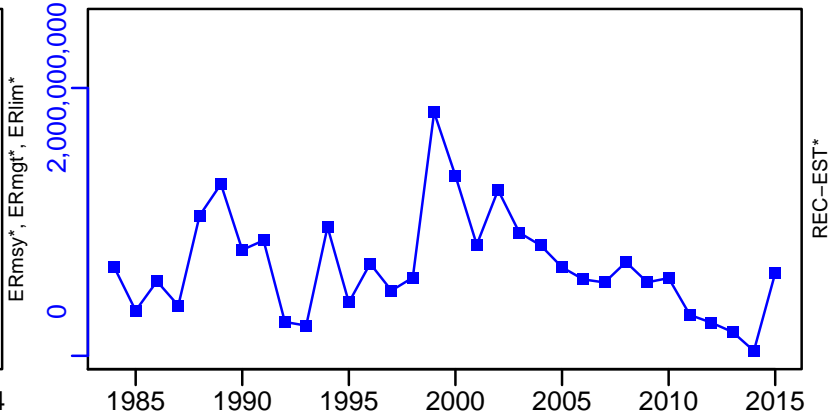
F-1/yr (1984–2018–ICESIMP2018)



ER-calc-ratio (1987–2015–ICESIMP2016)



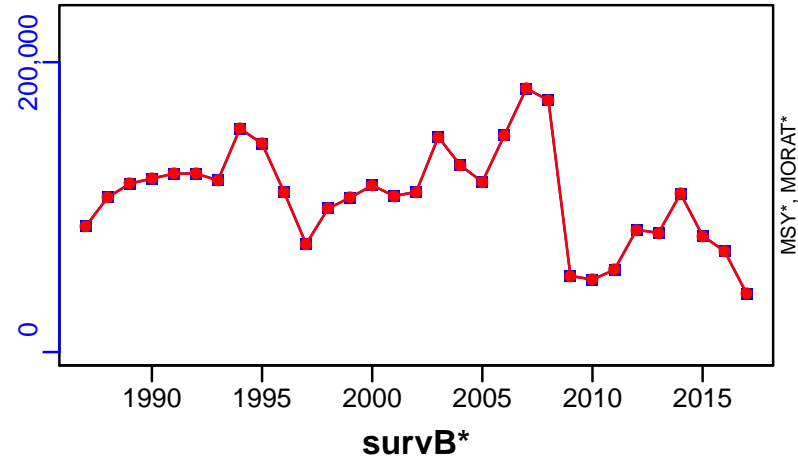
R-E00 (1984–2018–ICESIMP2018)





# Herring Iceland (Summer spawners) [HERRIsum]

TC-MT, TL-MT, RecC\* (1984–2018–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



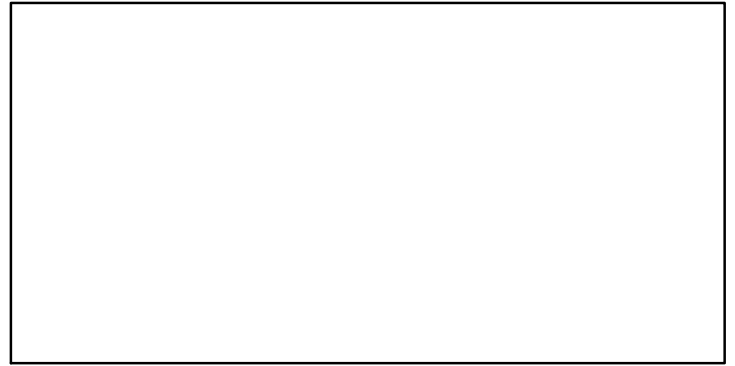
CPUE\*



EFFORT\*



CdivMSY\*



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

## Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners) [HERRNORSS]

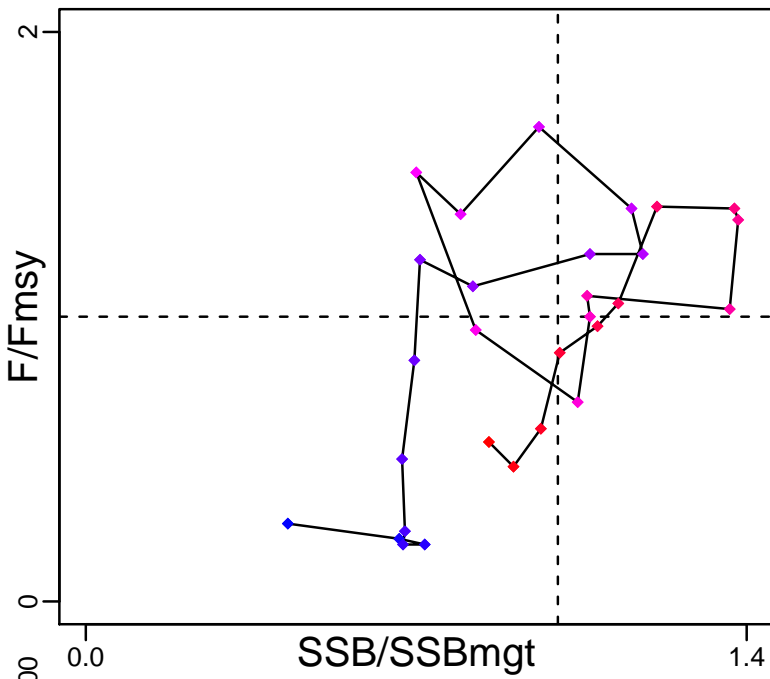
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	WGWIDE-HERRNORSS-1986-2017-ICESIMP2018
<b>Area</b>	ICES 1-2-4a-5-14a (Norwegian Spring Spawners)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on Widely Distributed Stocks
<b>Asmts in RAM</b>	2014, 2016, 2017, 2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2017	0.15
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2017	$5 \times 10^6$
<b>Fmgt</b>	Fmgt-1/yr	2017	0.125
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	2,500,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

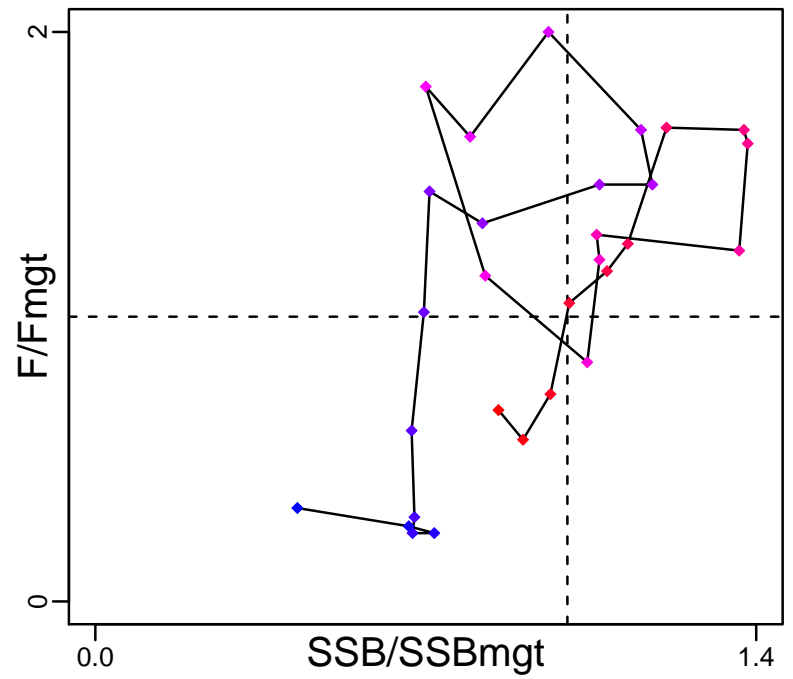
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	5,470,000	Both	-
<b>SSB</b>	SSB-MT	2017	4,130,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	$9.51 \times 10^9$	-	2
<b>F</b>	F-1/yr	2017	0.084	-	5 to 11
<b>ER</b>	ER-calc-ratio	2017	0.07	-	-
<b>TC</b>	TC-MT	2017	383,000		
<b>TL</b>	TL-MT	2017	383,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.56		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2017	0.826		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	0.672		
<b>ER/ERmgt</b>	-	-	-		

# Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners) [HERRNORSS]

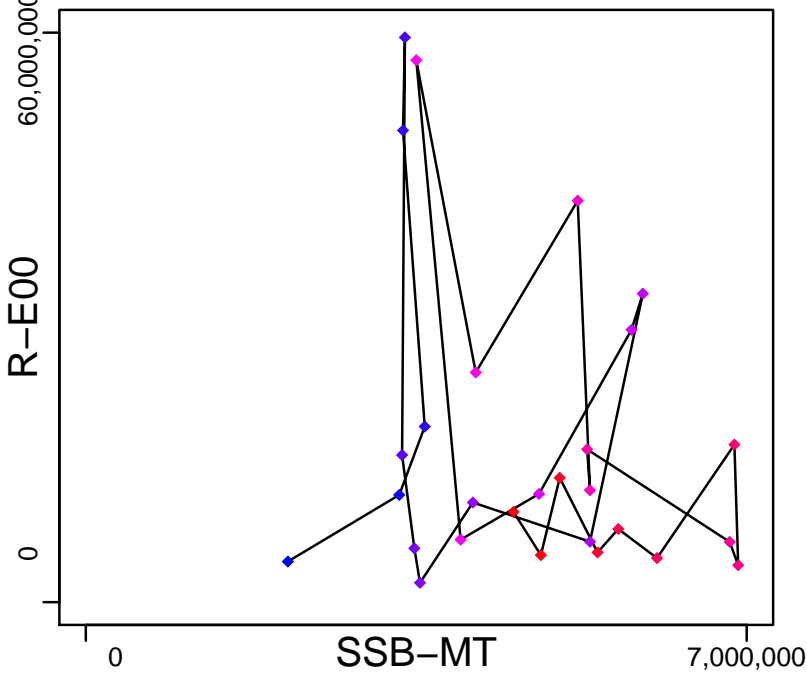
Kobe MSYpref (1986-2017-ICESIMP2018)



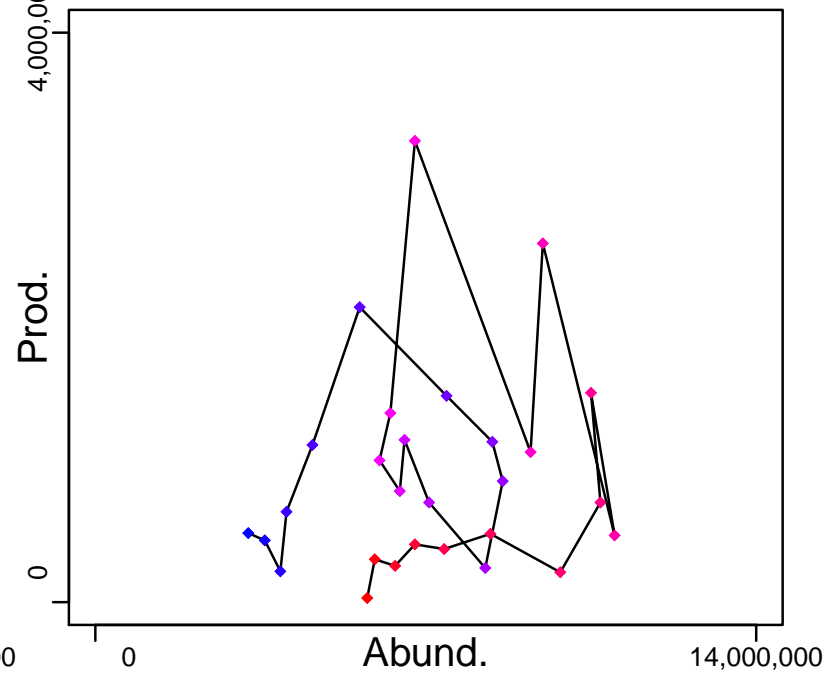
Kobe MGTpref (1986-2017-ICESIMP2018)



Spawner Recruit (1986-2017-ICESIMP2018)



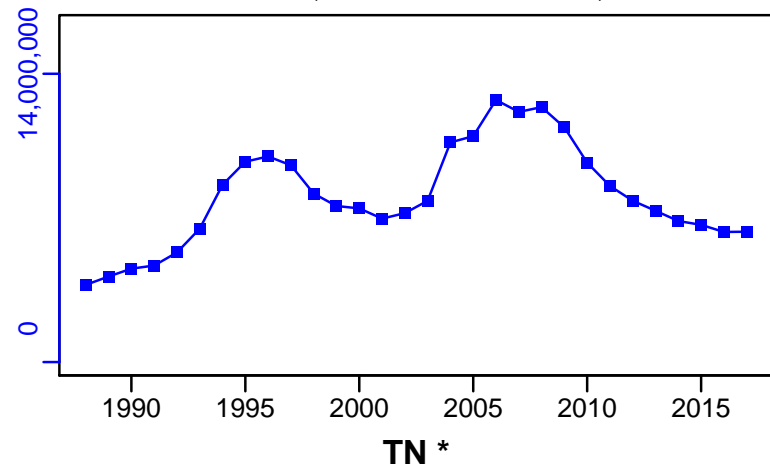
Production (1986-2017-ICESIMP2018)



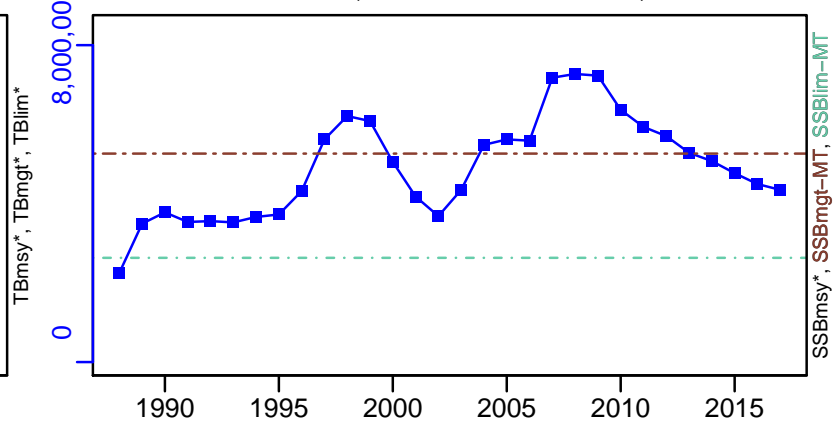
◆ Start Year ◆ End Year \* No Data

# Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners) [HERRNORSS]

TB-MT (1986-2017-ICESIMP2018)



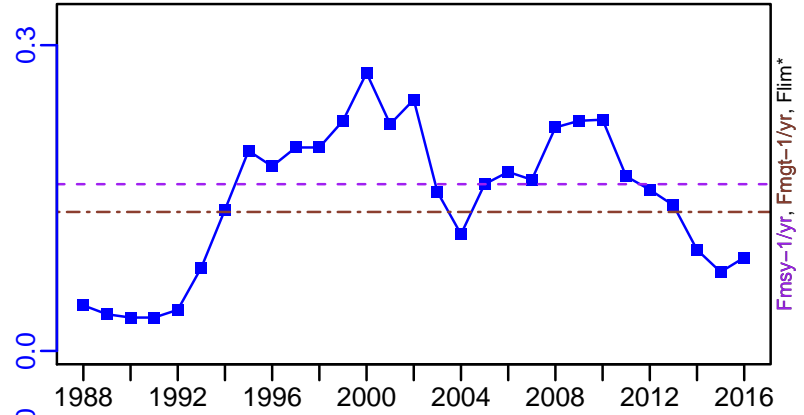
SSB-MT (1986-2017-ICESIMP2018)



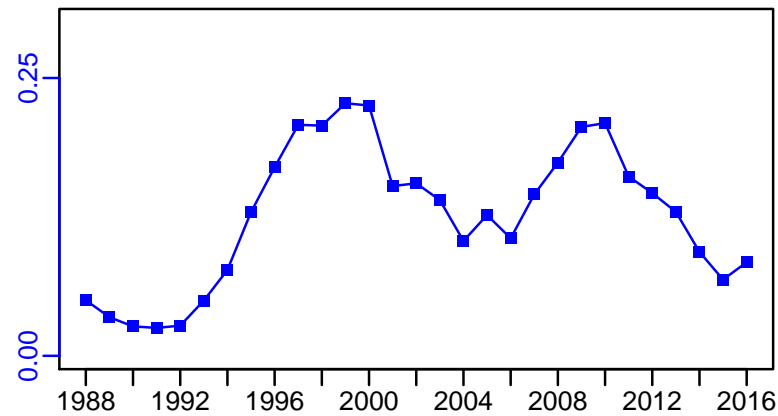
TN \*



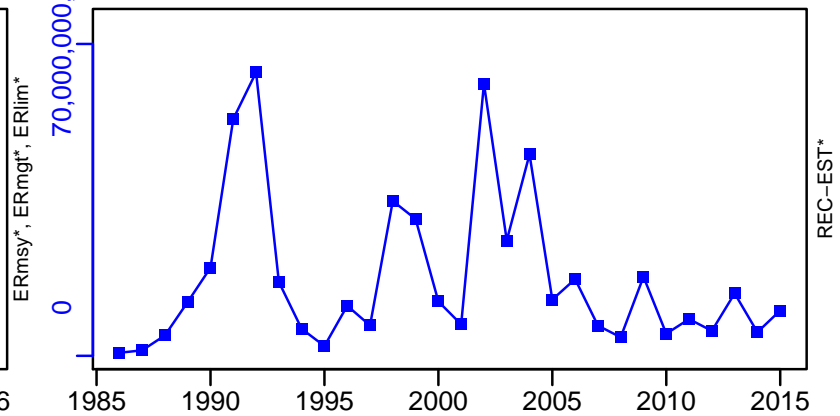
F-1/yr (1986-2017-ICESIMP2018)



ER-calc-ratio (1986-2017-ICESIMP2018)

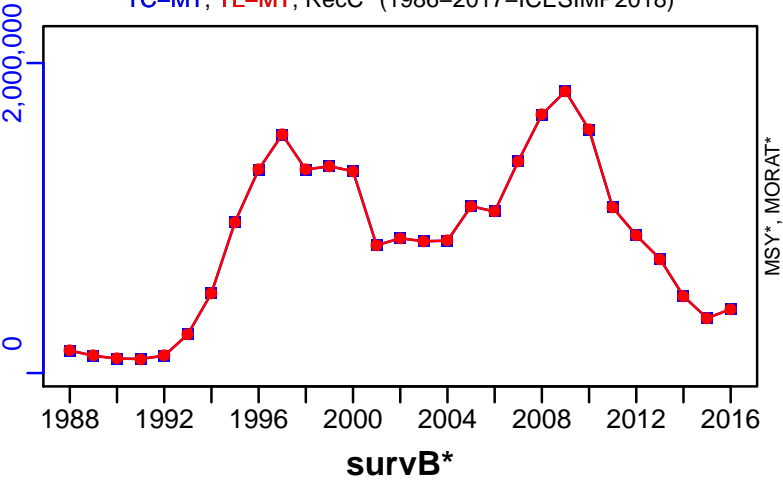


R-E00 (1986-2017-ICESIMP2018)



Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners) [HERRNORSS]

TC-MT, TL-MT, RecC\* (1986-2017-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



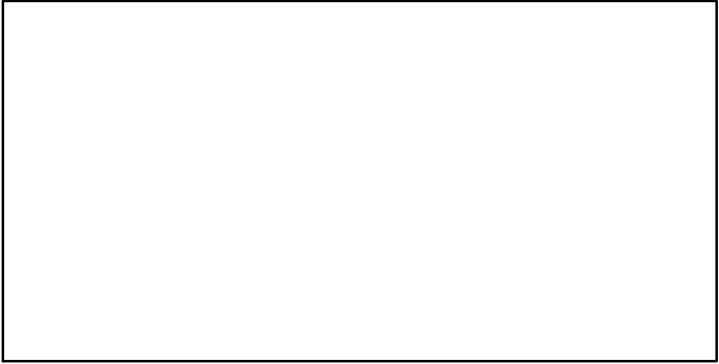
CPUE\*



EFFORT\*



CdivMSY\*



## Ling North-East Arctic [LINGI-II]

Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGI-II-1988-2016-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 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	SSB-index	2014	99	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	8820		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



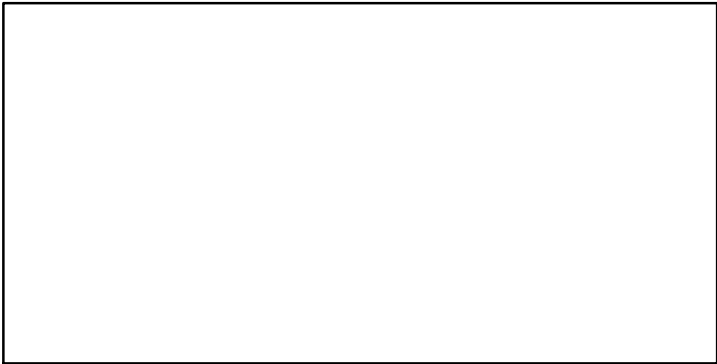
Production\*



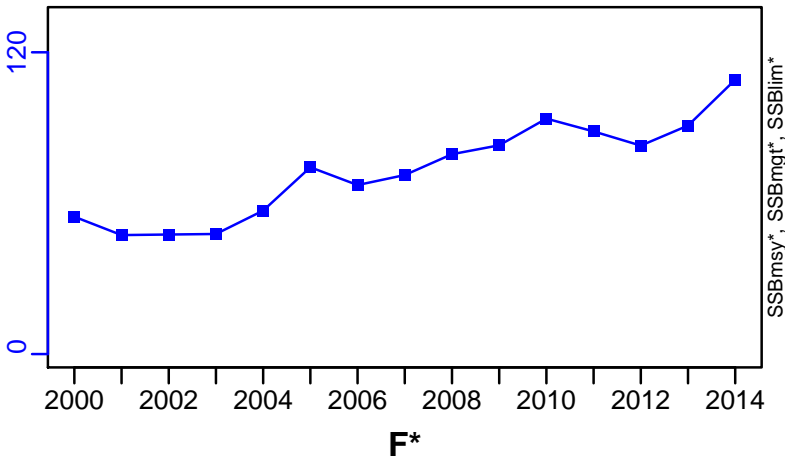
◆ Start Year   ◆ End Year   \* No Data

Ling North-East Arctic [LINGI-II]

TB\*



SSB-index (1988–2014–ICESIMP2018)



TN \*



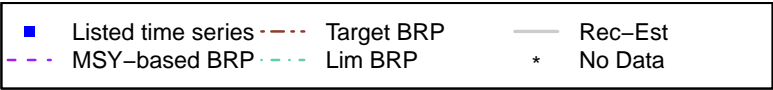
F\*



ER\*



Recruits\*

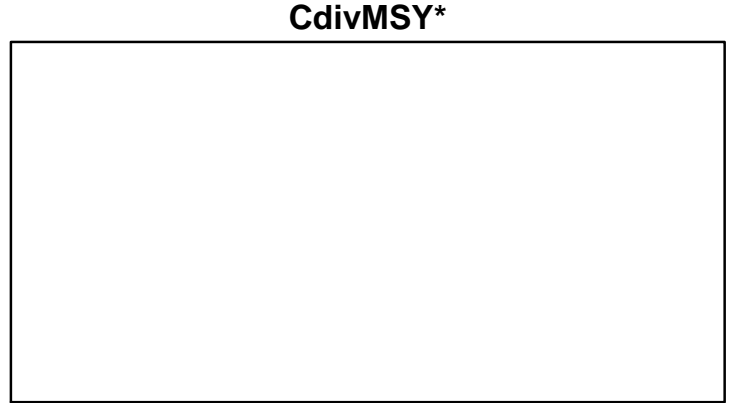
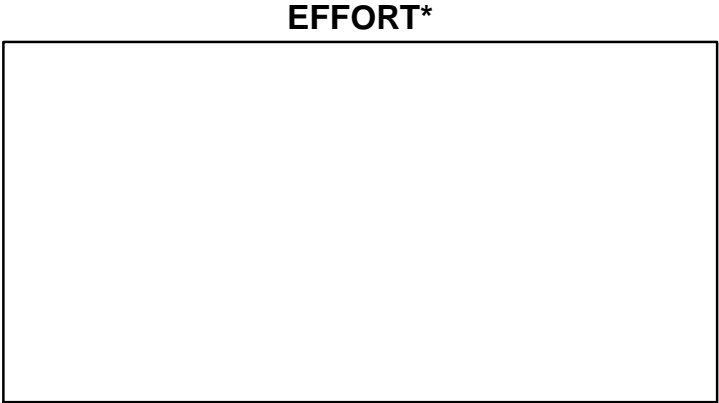
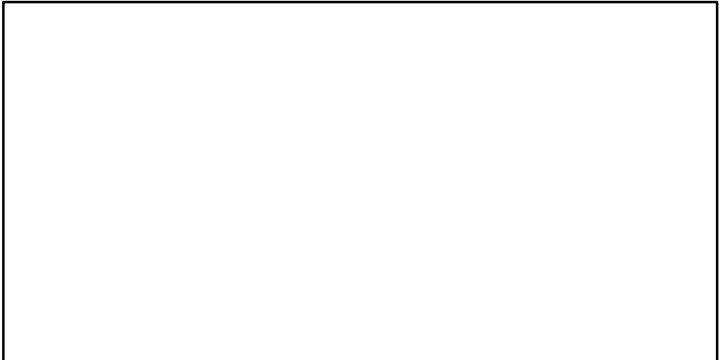
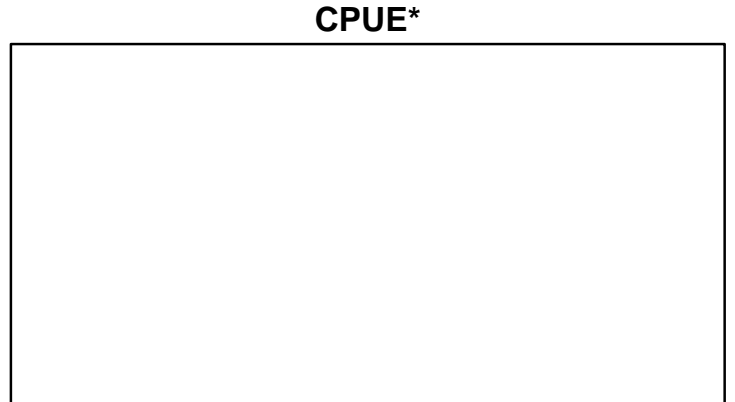
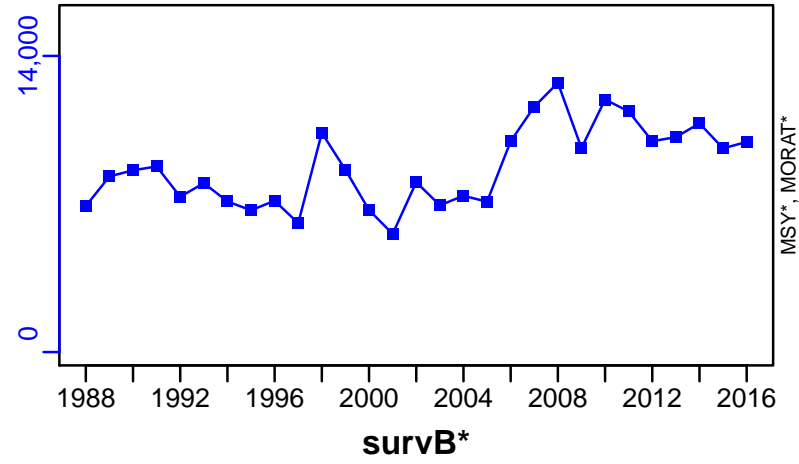




# Ling North-East Arctic [LINGI-II]

TL-MT, TC\*, RecC\* (1988–2016–ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



## Ling Iceland Grounds [LINGVa]

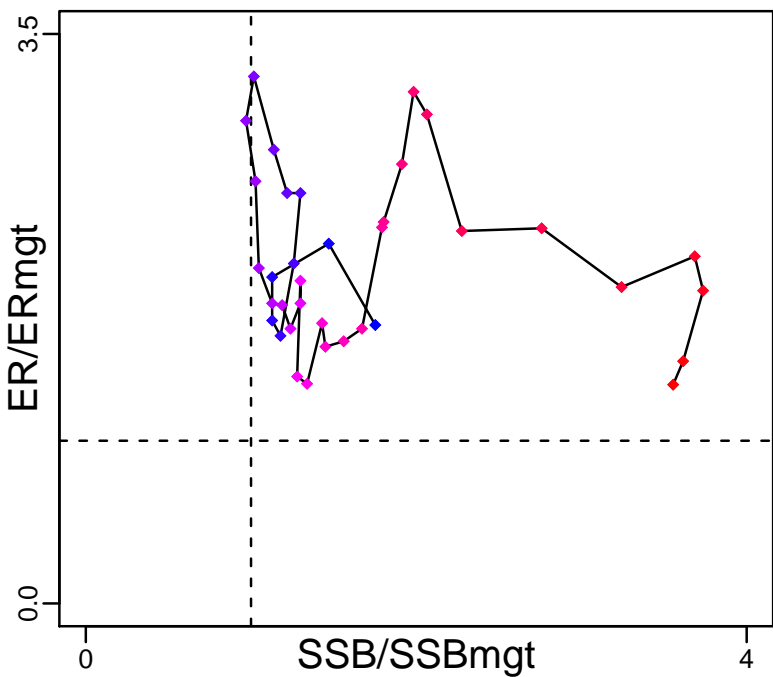
Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVa-1979-2018-ICESIMP2018
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 2017, 2018, 2015, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.24
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	9930
<b>Fmgt</b>	Fmgt-1/yr	2016	0.24
<b>ERmgt</b>	ERmgt-ratio	2018	0.18
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	7090
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

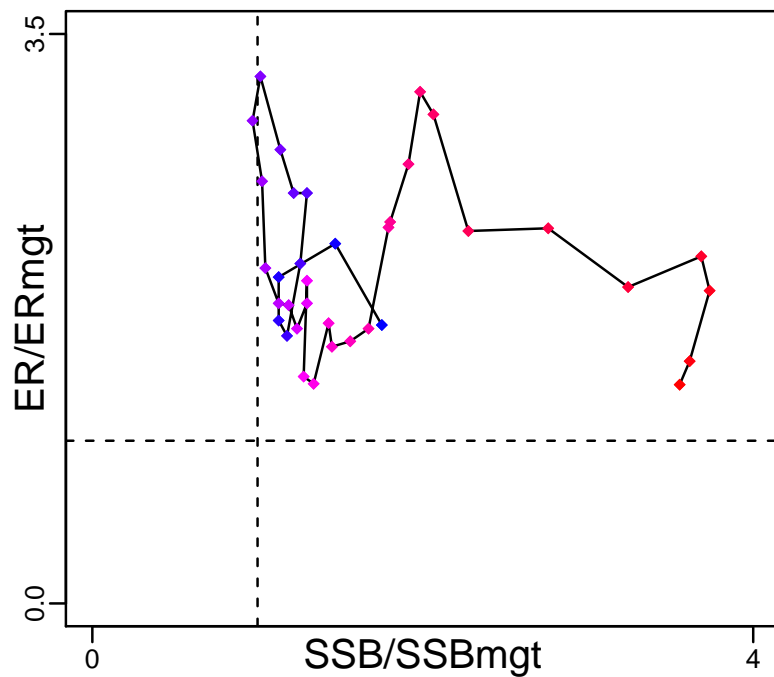
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	56,100	Both	-
<b>SSB</b>	SSB-MT	2018	34,200	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	5,440,000	-	3
<b>F</b>	F-1/yr	2016	0.28	-	-
<b>ER</b>	ER-ratio	2018	0.242	-	-
<b>TC</b>	TC-MT	2018	8770		
<b>TL</b>	TL-MT	2014	11,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.167		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	3.444		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.167		
<b>ER/ERmgt</b>	-	-	-		

# Ling Iceland Grounds [LINGVa]

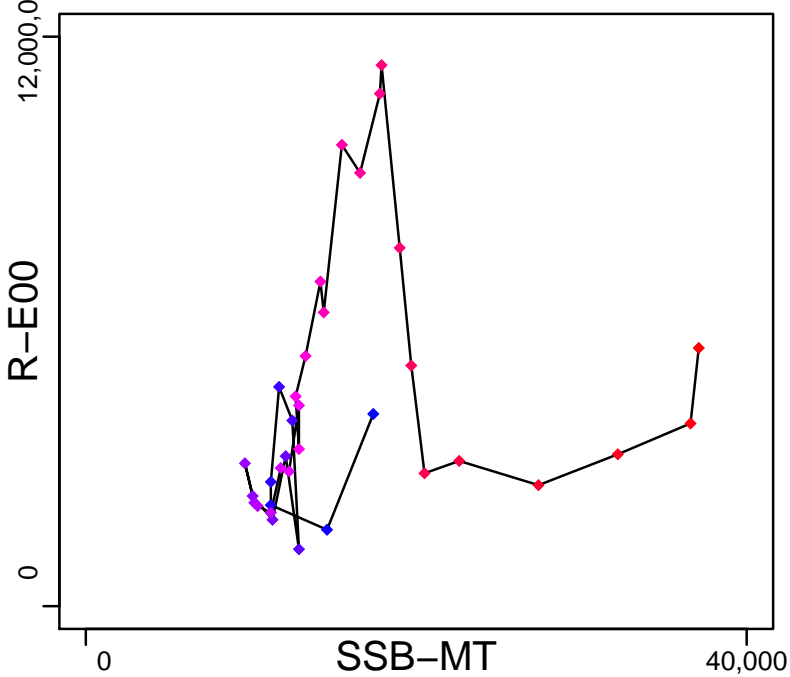
Kobe MSYpref (1979–2018–ICESIMP2018)



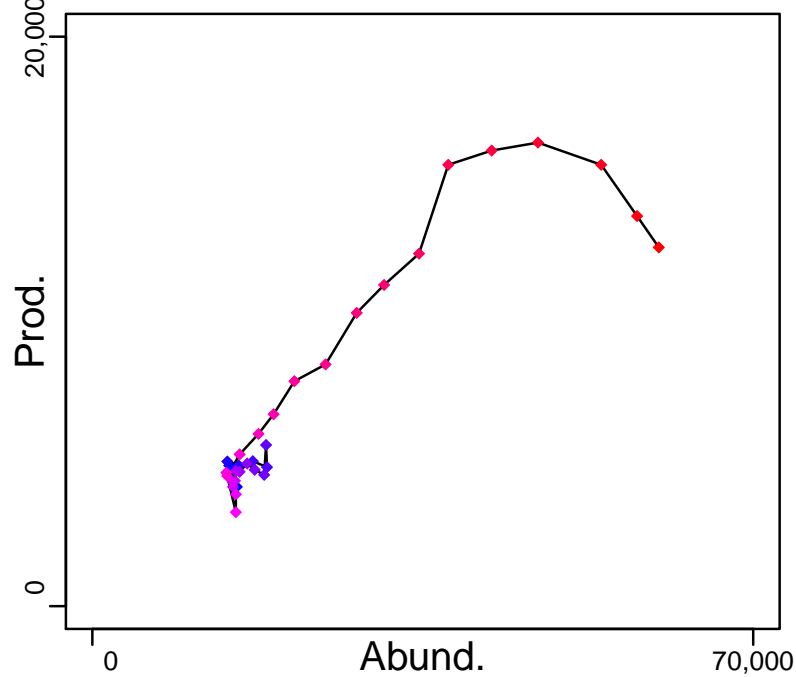
Kobe MGTpref (1979–2018–ICESIMP2018)



Spawner Recruit (1979–2018–ICESIMP2018)



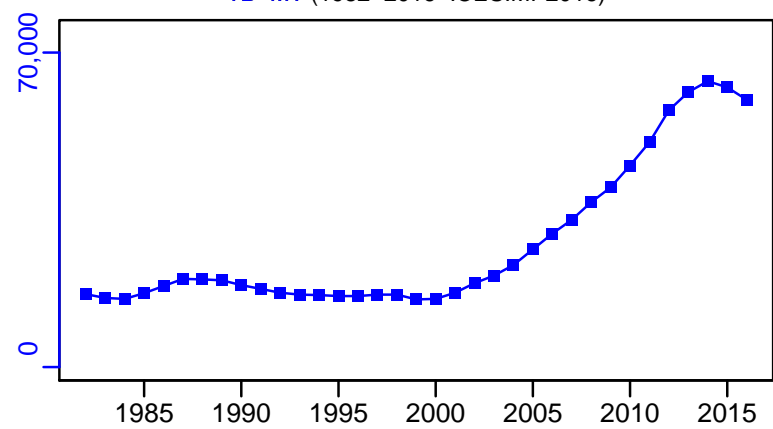
Production (1982–2016–ICESIMP2016)



◆ Start Year ◆ End Year \* No Data

# Ling Iceland Grounds [LINGVa]

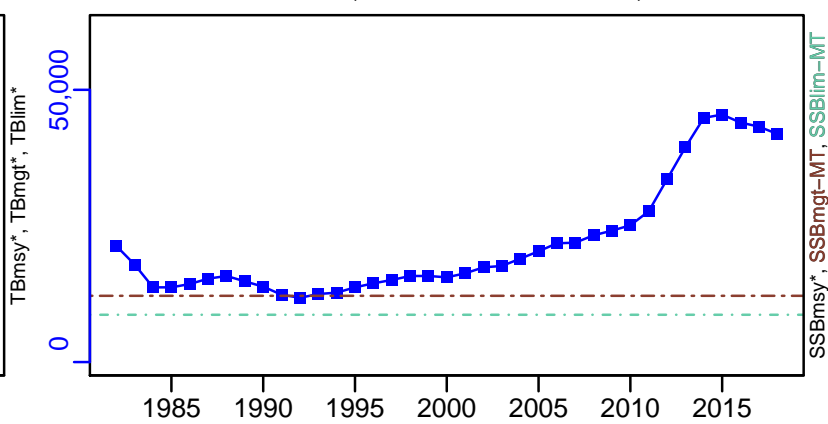
TB-MT (1982–2016–ICESIMP2016)



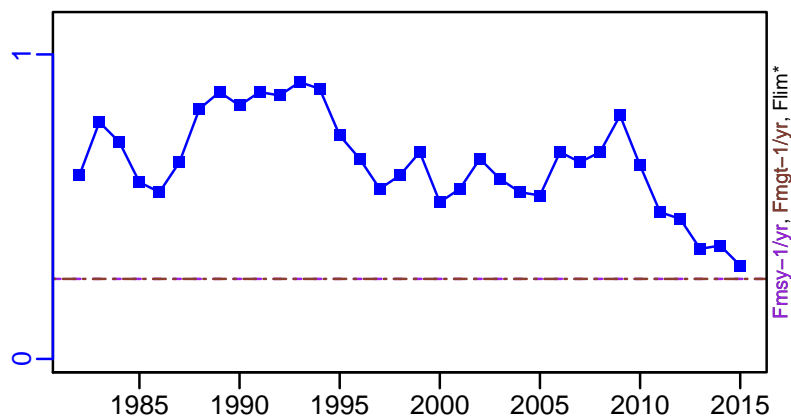
TN \*



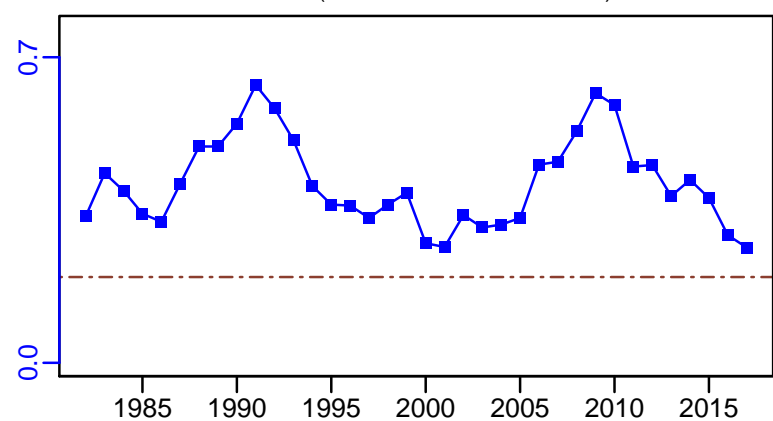
SSB-MT (1979–2018–ICESIMP2018)



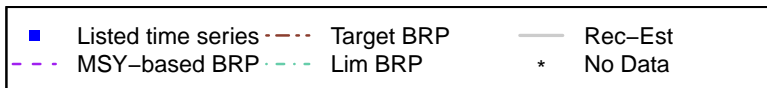
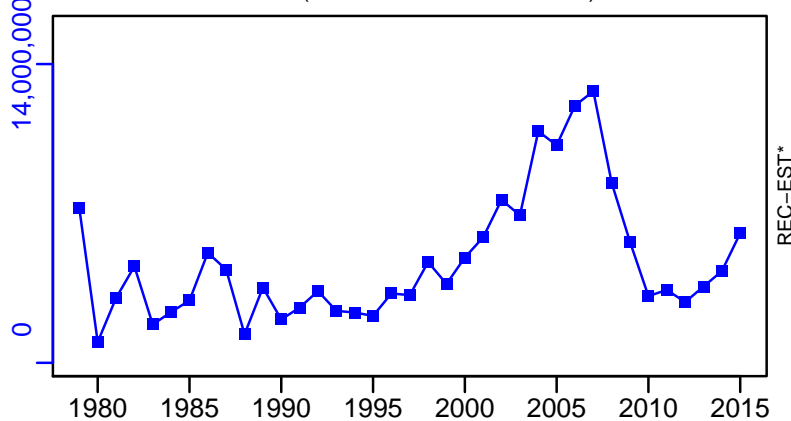
F-1/yr (1982–2016–ICESIMP2016)



ER-ratio (1979–2018–ICESIMP2018)

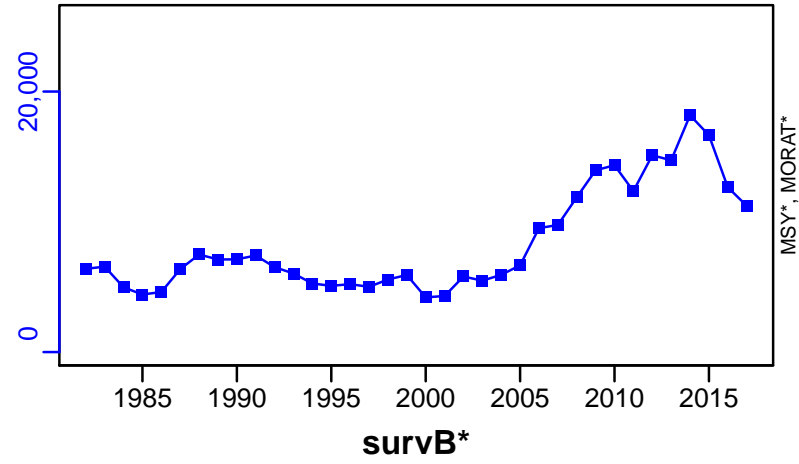


R-E00 (1979–2018–ICESIMP2018)



# Ling Iceland Grounds [LINGVa]

TC-MT, TL\*, RecC\* (1979-2018-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



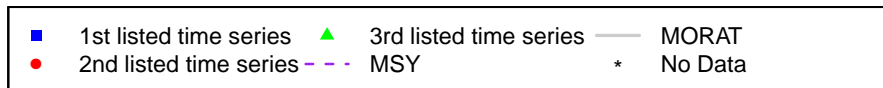
CPUE\*



EFFORT\*



CdivMSY\*



## Ling Faroe Grounds [LINGVb]

Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVb-1988-2016-ICESIMP2018
<b>Area</b>	Faroe Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 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	SSB-index	2014	33	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2016	5890		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



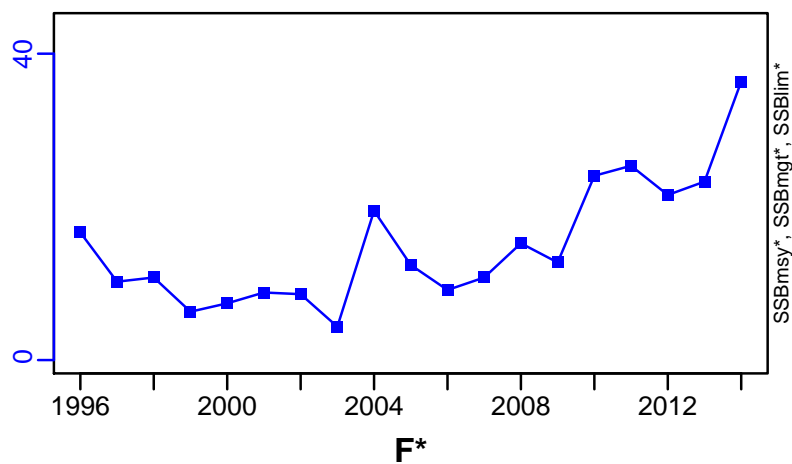
◆ Start Year ◆ End Year \* No Data

# Ling Faroe Grounds [LINGVb]

TB\*



SSB-index (1965–2014–ICESIMP2018)



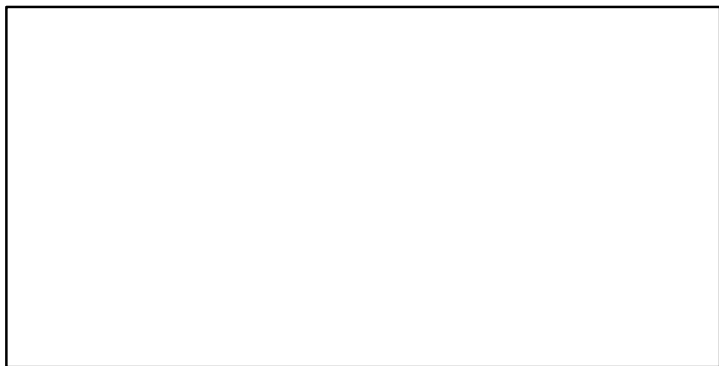
TN \*



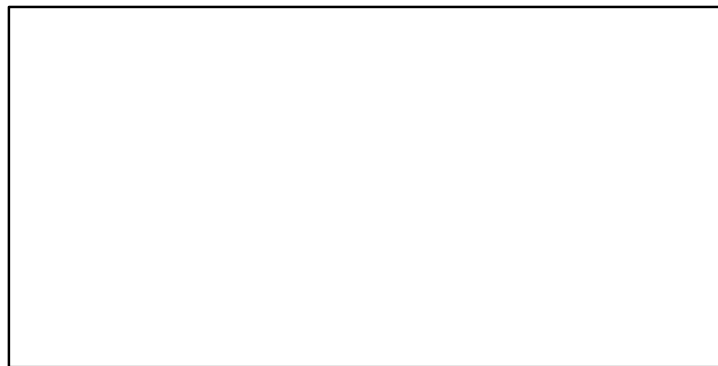
F\*



ER\*



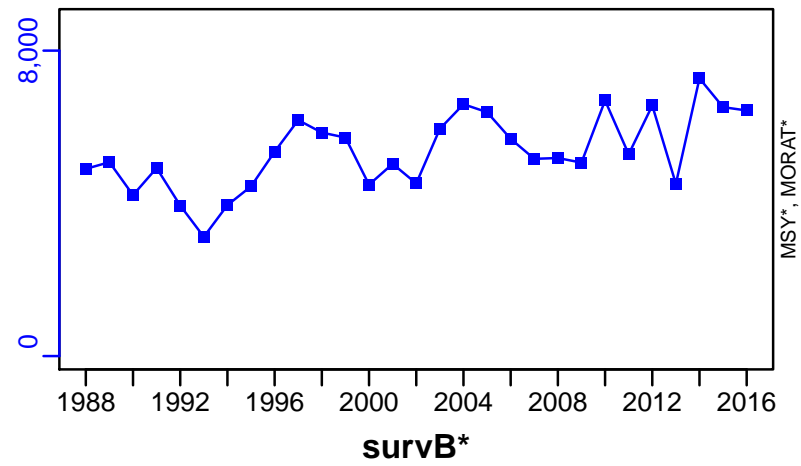
Recruits\*





# Ling Faroe Grounds [LINGVb]

TL-MT, TC\*, RecC\* (1988–2016–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



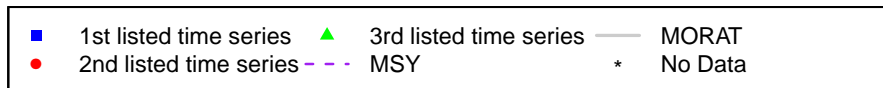
CPUE\*



EFFORT\*



CdivMSY\*



## Northern shrimp North-East Arctic [PANDALI-II]

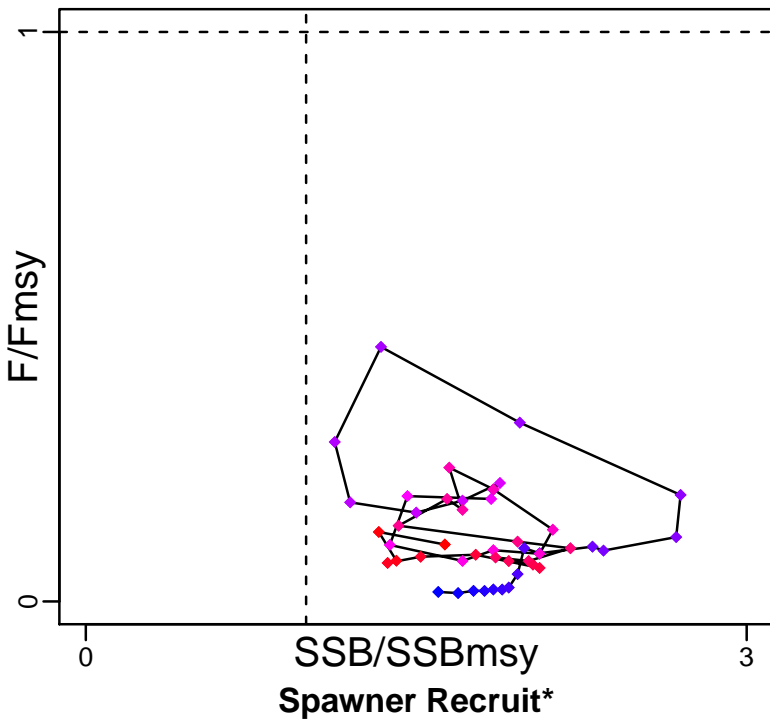
Metadata	
<b>Scientific Name</b>	Pandalus borealis
<b>Current Assess ID</b>	NIPAG-PANDALI-II-1970-2017-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Joint NAFO and ICES Pandalus Assessment Working Group
<b>Asmts in RAM</b>	2014, 2015, 2016, 2017

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

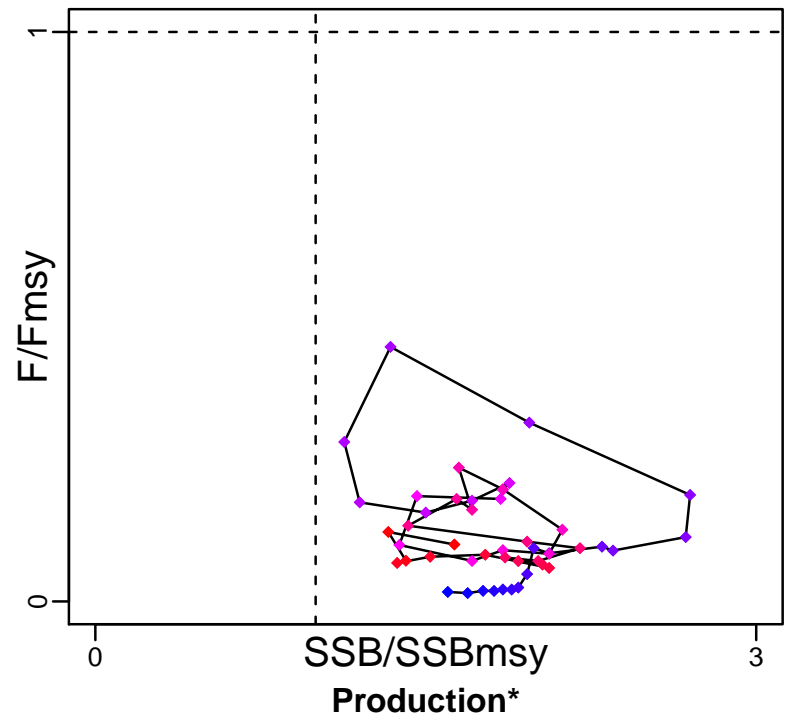
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	0	-	0
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	28,000		
TL	TL-MT	2017	28,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2017	1.68		
F/Fmsy	FdivFmsy-dimensionless	2017	0.1		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Northern shrimp North-East Arctic [PANDALI-II]

Kobe MSYpref (1970–2017–ICESIMP2018)



Kobe MGTpref (1970–2017–ICESIMP2018)



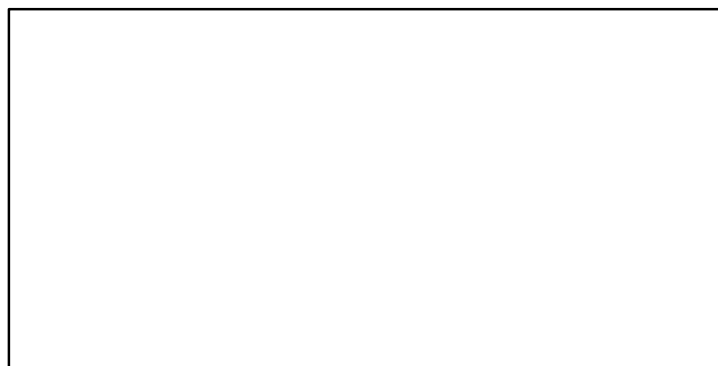
◆ Start Year ◆ End Year \* No Data

# Northern shrimp North-East Arctic [PANDALI-II]

TB\*



SSB\*



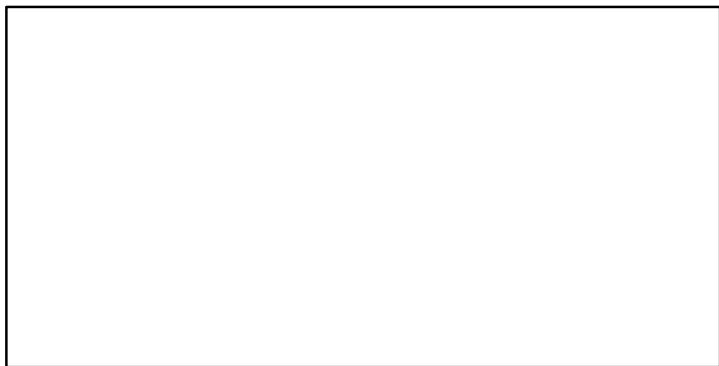
TN \*



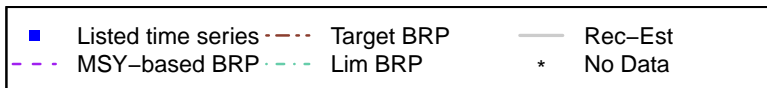
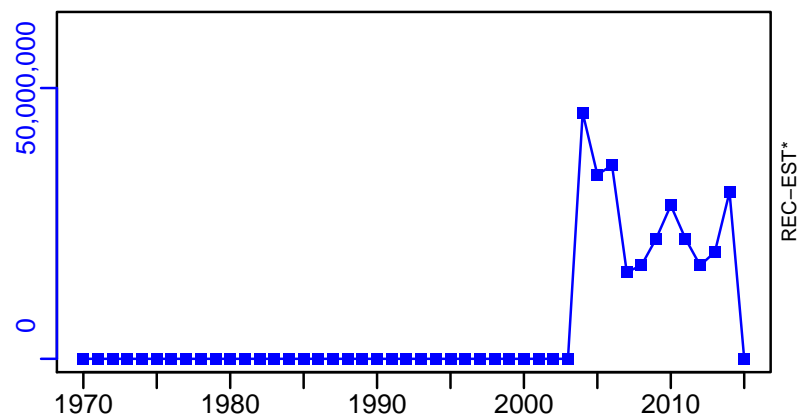
F\*



ER\*

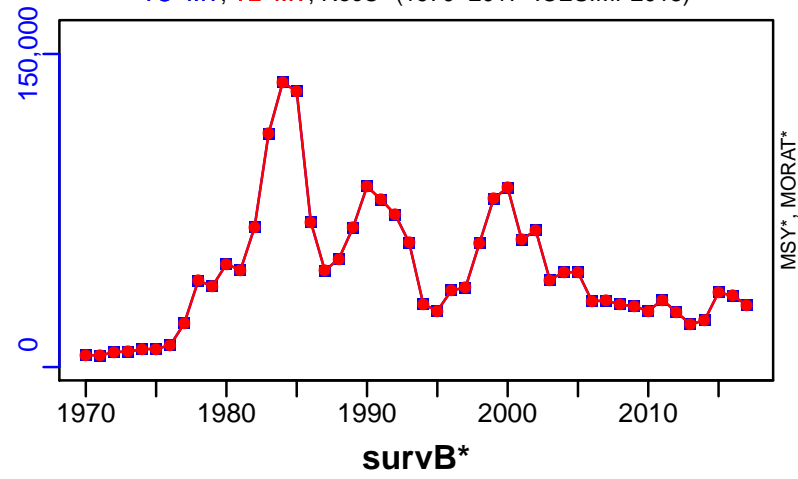


R-E00 (1970–2015–ICESIMP2018)



# Northern shrimp North-East Arctic [PANDALI-II]

TC-MT, TL-MT, RecC\* (1970-2017-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



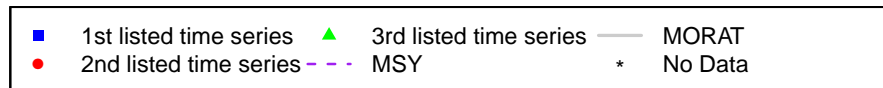
CPUE\*



EFFORT\*



CdivMSY\*



## Pollock Faroe Plateau [POLLFAPL]

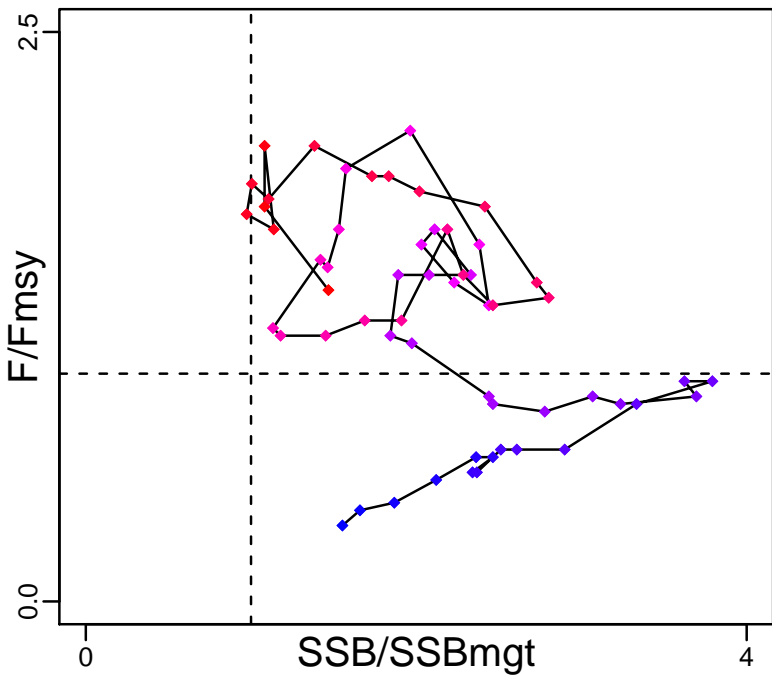
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLFAPL-1958-2018-ICESIMP2018
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.3
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	41,400
<b>Fmgt</b>	Fmgt-1/yr	2018	0.3
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	29,571
<b>Flim</b>	Flim-1/yr	2018	0.7
<b>ERlim</b>	-	-	-

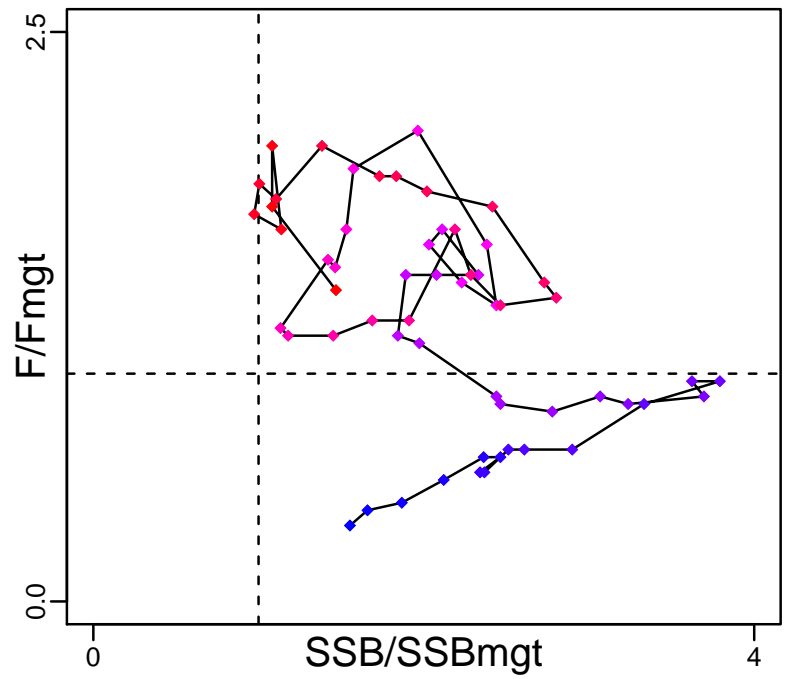
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	142,000	Both	-
<b>SSB</b>	SSB-MT	2018	66,900	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	23,100,000	-	3
<b>F</b>	F-1/yr	2018	0.41	-	4 to 8
<b>ER</b>	ER-calc-ratio	2018	0.195	-	-
<b>TC</b>	TC-MT	2018	30,600		
<b>TL</b>	TL-MT	2018	30,600		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.367		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	1.616		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	1.367		
<b>ER/ERmgt</b>	-	-	-		

# Pollock Faroe Plateau [POLLFAPL]

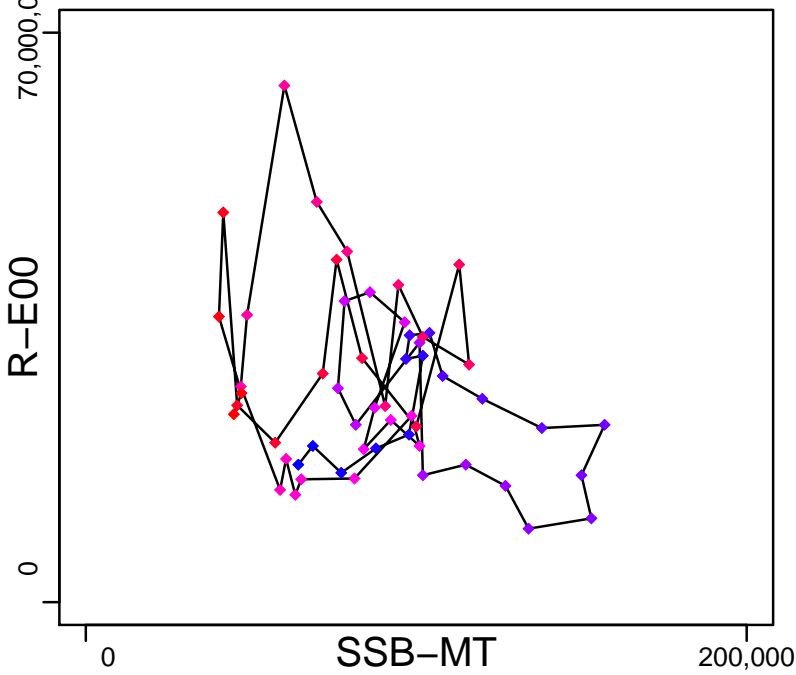
Kobe MSYpref (1958–2018–ICESIMP2018)



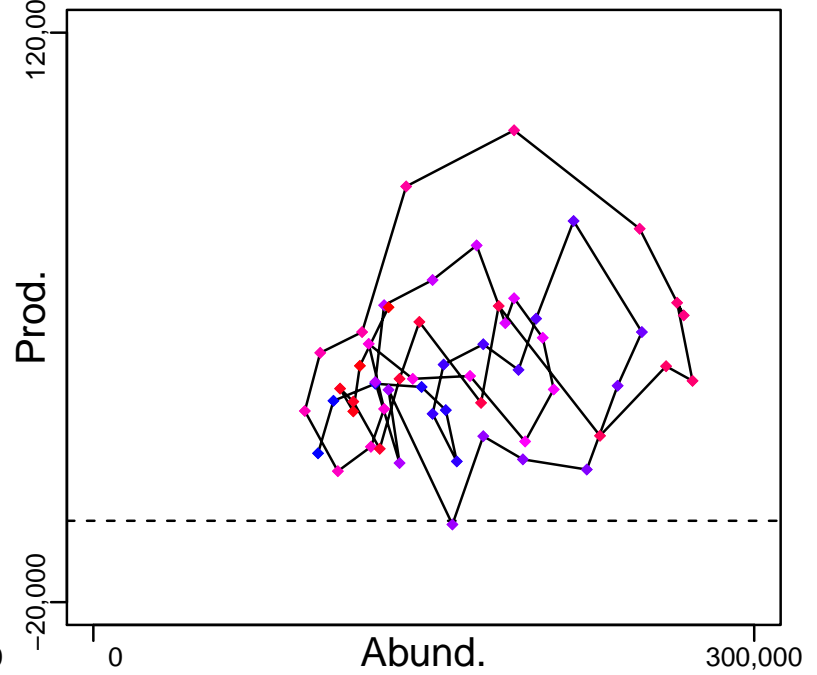
Kobe MGTpref (1958–2018–ICESIMP2018)



Spawner Recruit (1958–2018–ICESIMP2018)

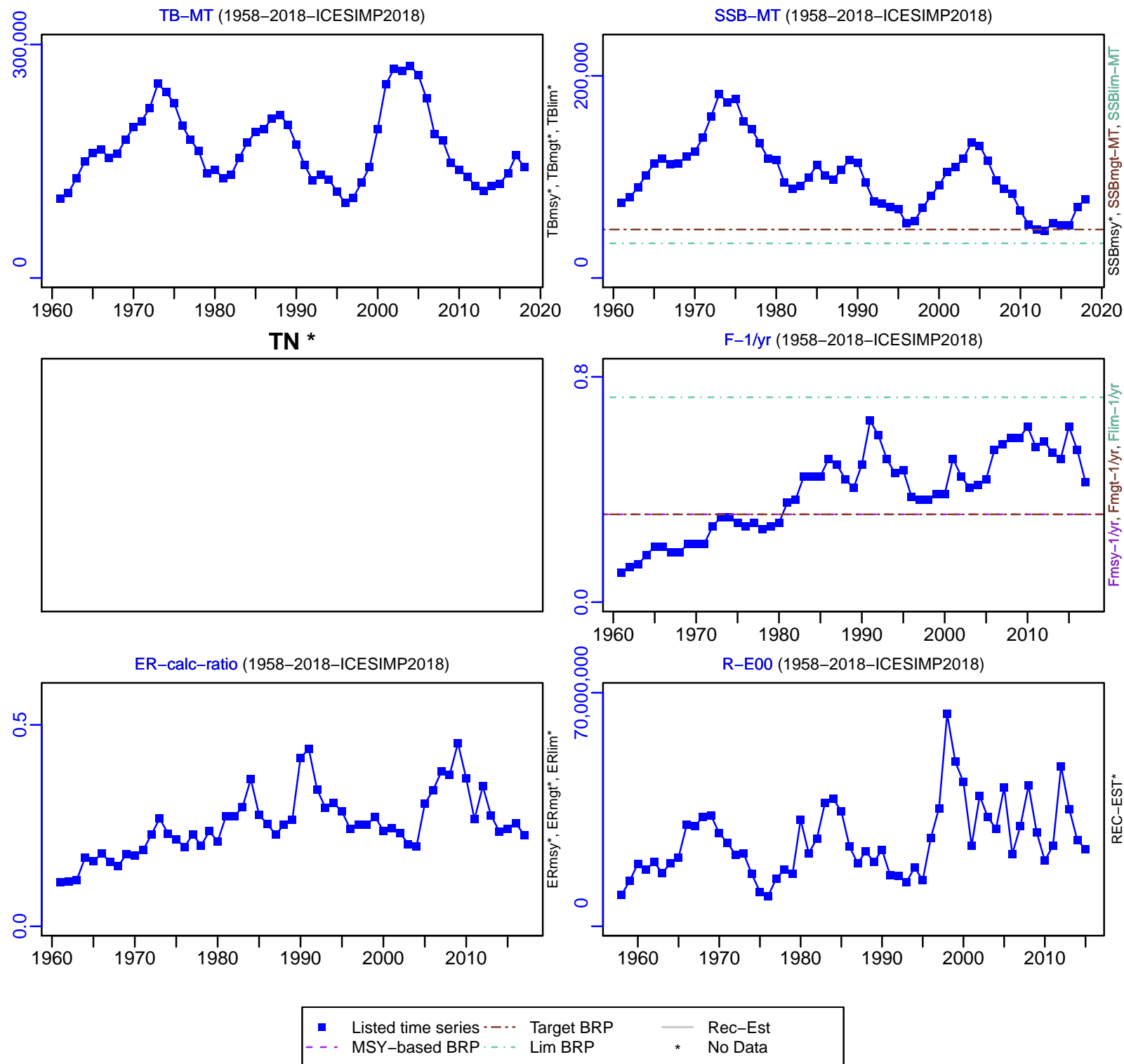


Production (1958–2018–ICESIMP2018)



◆ Start Year ◆ End Year \* No Data

# Pollock Faroe Plateau [POLLFAPL]

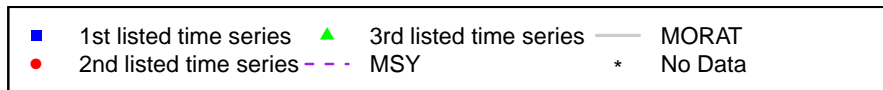
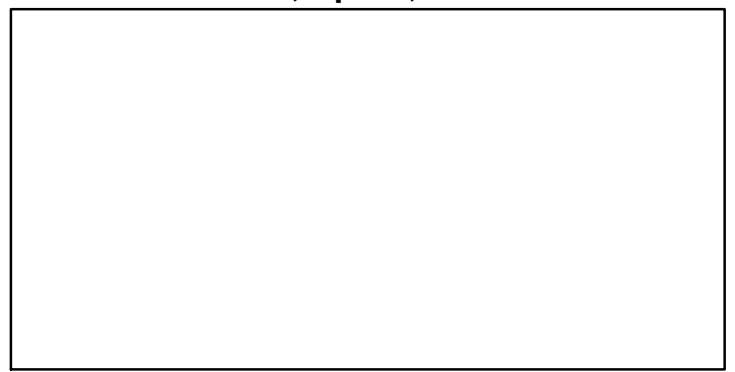
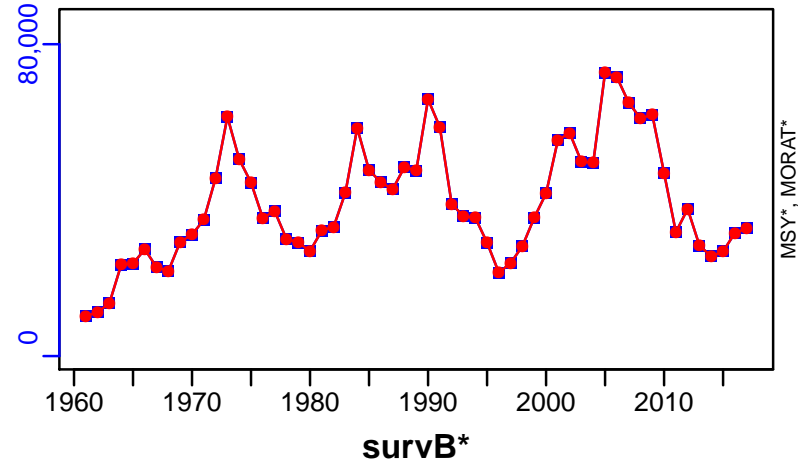




# Pollock Faroe Plateau [POLLFAPL]

TC-MT, TL-MT, RecC\* (1958-2018-ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



## Pollock Iceland Grounds [POLLIEG]

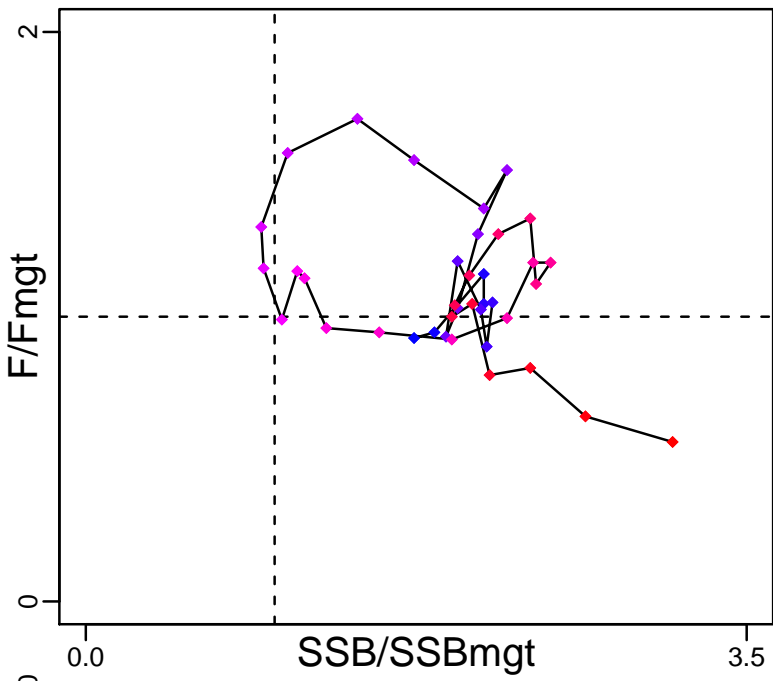
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLIEG-1977-2018-ICESIMP2018
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2018, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2013	0.28
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	65,000
<b>Fmgt</b>	Fmgt-1/yr	2018	0.2
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-MT	2012	65,000
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	44,000
<b>Flim</b>	Flim-1/yr	2018	0.46
<b>ERlim</b>	-	-	-

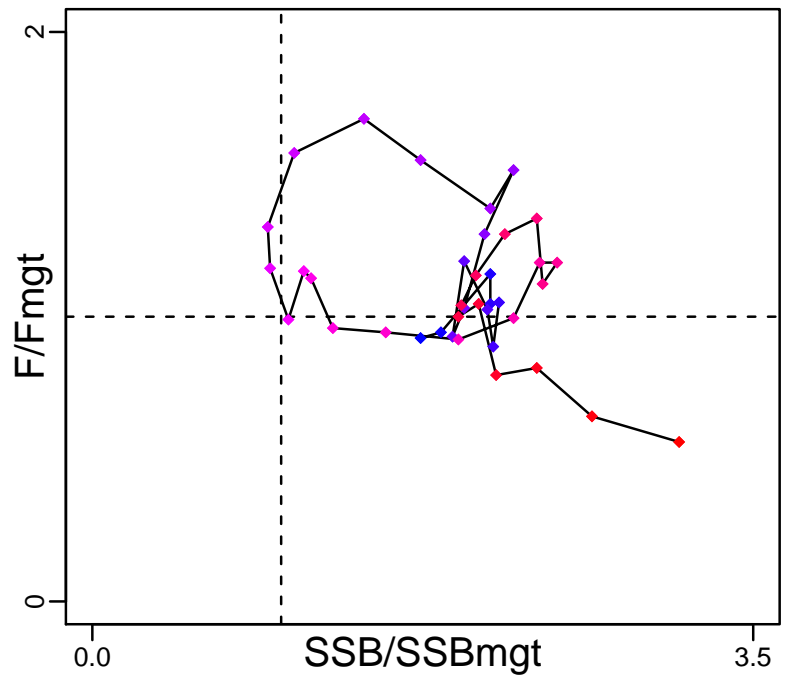
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	306,000	Both	-
<b>SSB</b>	SSB-MT	2018	233,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	15,300,000	-	3
<b>F</b>	F-1/yr	2018	0.112	-	4 to 9
<b>ER</b>	ER-calc-ratio	2017	0.161	-	-
<b>TC</b>	TC-MT	2018	49,100		
<b>TL</b>	TL-MT	2017	49,200		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2013	0.679		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	3.585		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	0.56		
<b>ER/ERmgt</b>	-	-	-		

# Pollock Iceland Grounds [POLLIEG]

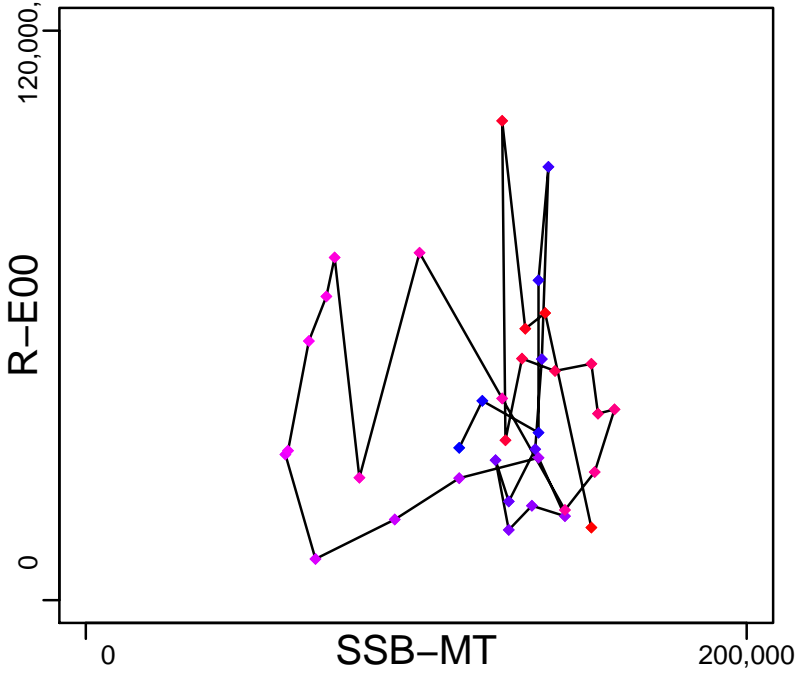
Kobe MSYpref (1977–2018–ICESIMP2018)



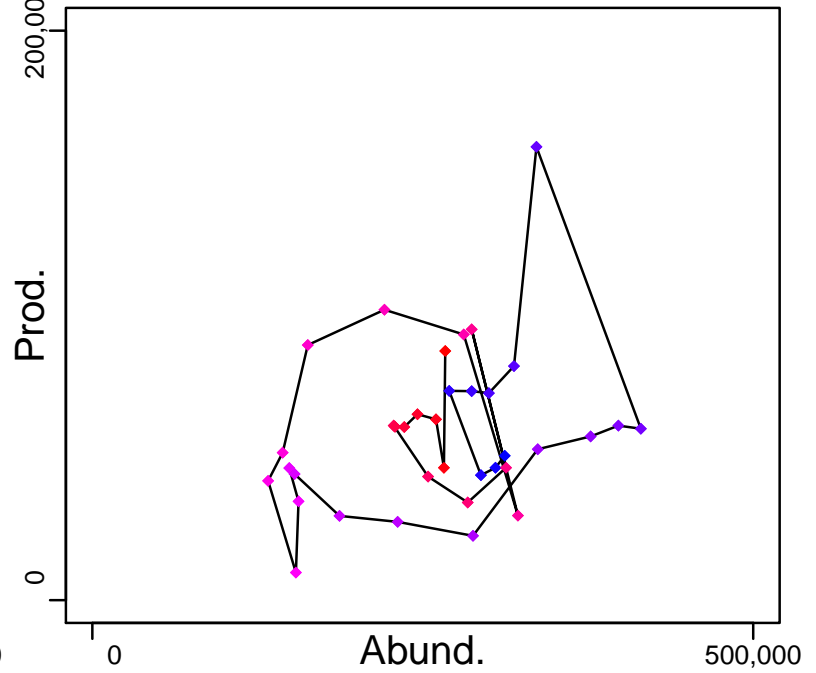
Kobe MGTpref (1977–2018–ICESIMP2018)



Spawner Recruit (1977–2018–ICESIMP2018)



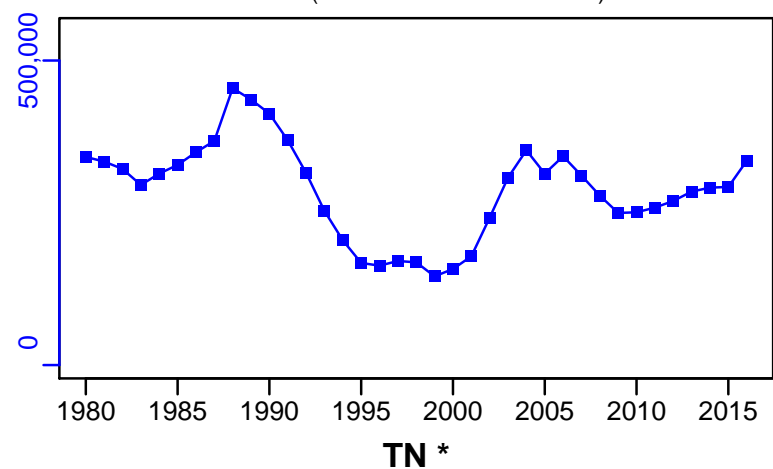
Production (1980–2017–ICESIMP2018)



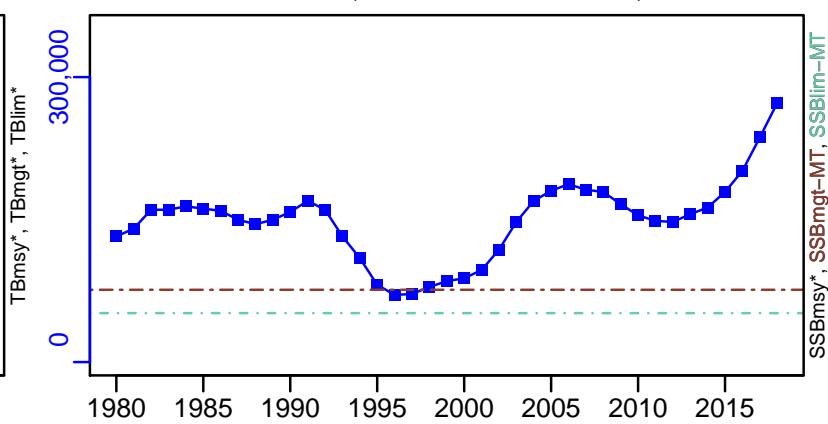
◆ Start Year ◆ End Year \* No Data

# Pollock Iceland Grounds [POLLIEG]

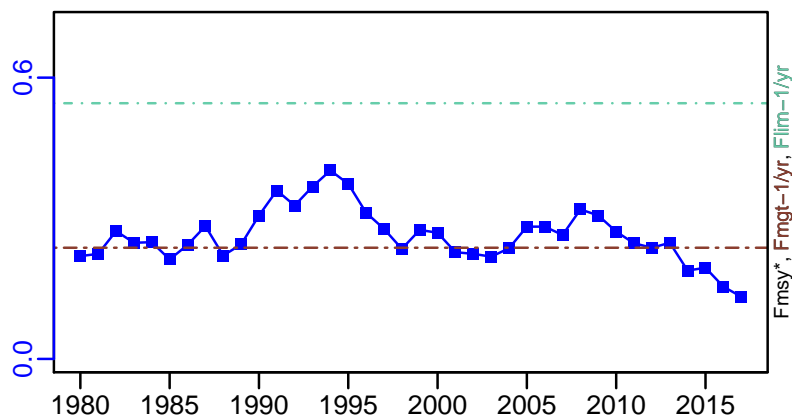
TB-MT (1980–2017–ICESIMP2018)



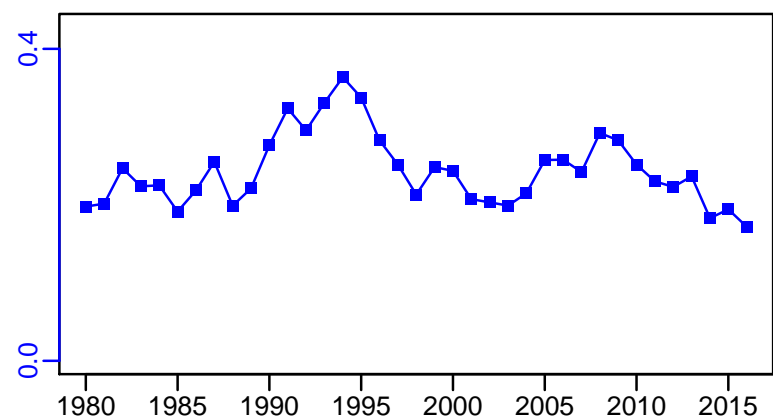
SSB-MT (1977–2018–ICESIMP2018)



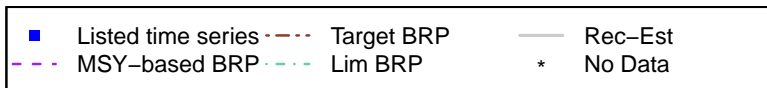
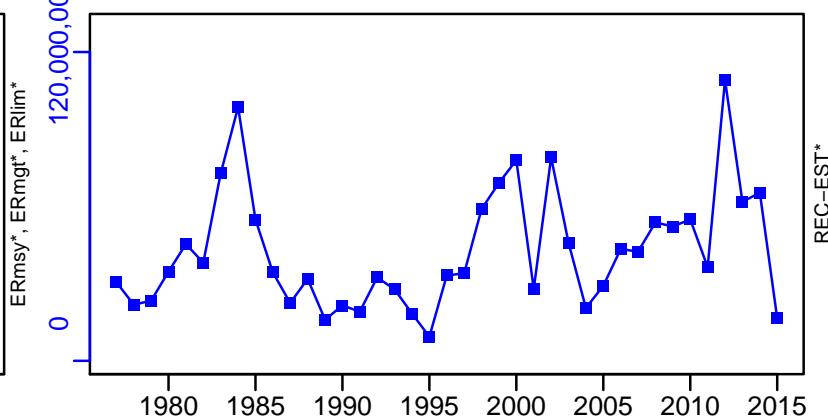
F-1/yr (1977–2018–ICESIMP2018)



ER-calc-ratio (1980–2017–ICESIMP2018)

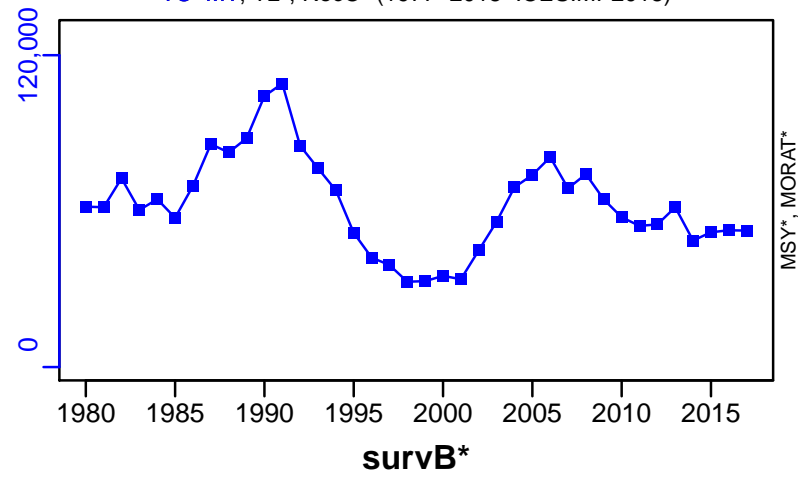


R-E00 (1977–2018–ICESIMP2018)



# Pollock Iceland Grounds [POLLIEG]

TC-MT, TL\*, RecC\* (1977-2018-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



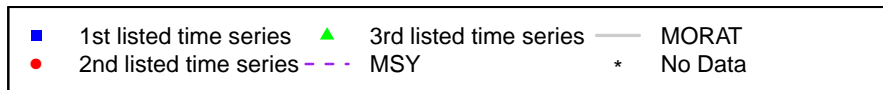
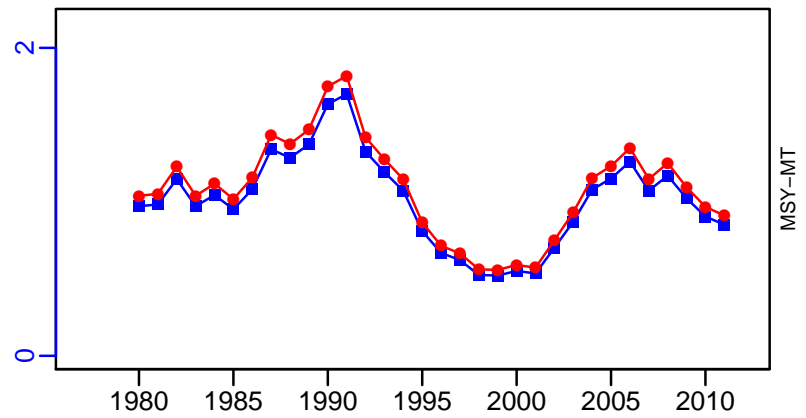
CPUE\*



EFFORT\*



TL-MT/MSY-MT, CdivMEANC-ratio, (1977-2012-CHING)



## Pollock North-East Arctic [POLLNEAR]

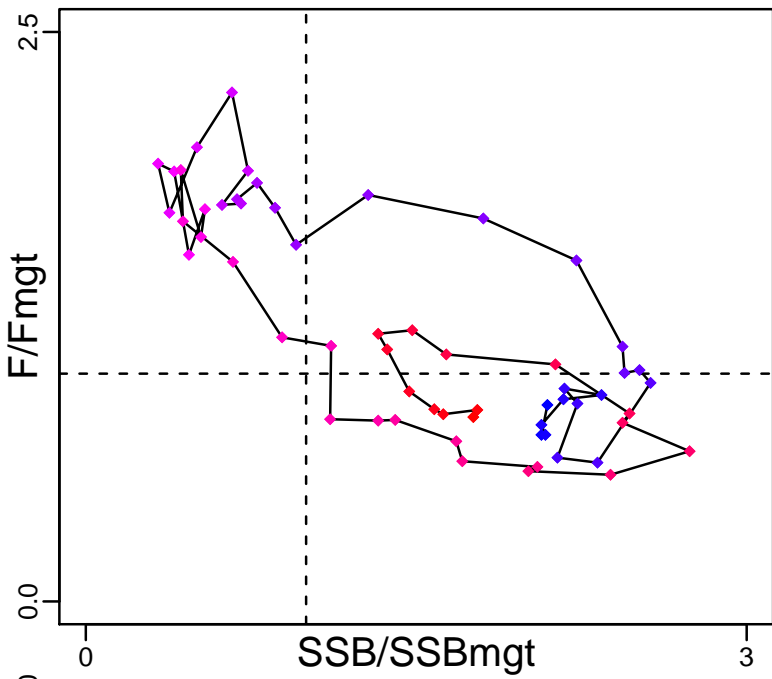
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	AFWG-POLLNEAR-1957-2018-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2014, 2015, 2016, 2017, 2018

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	220,000
<b>Fmgt</b>	Fmgt-1/yr	2018	0.32
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	136,000
<b>Flim</b>	Flim-1/yr	2018	0.58
<b>ERlim</b>	-	-	-

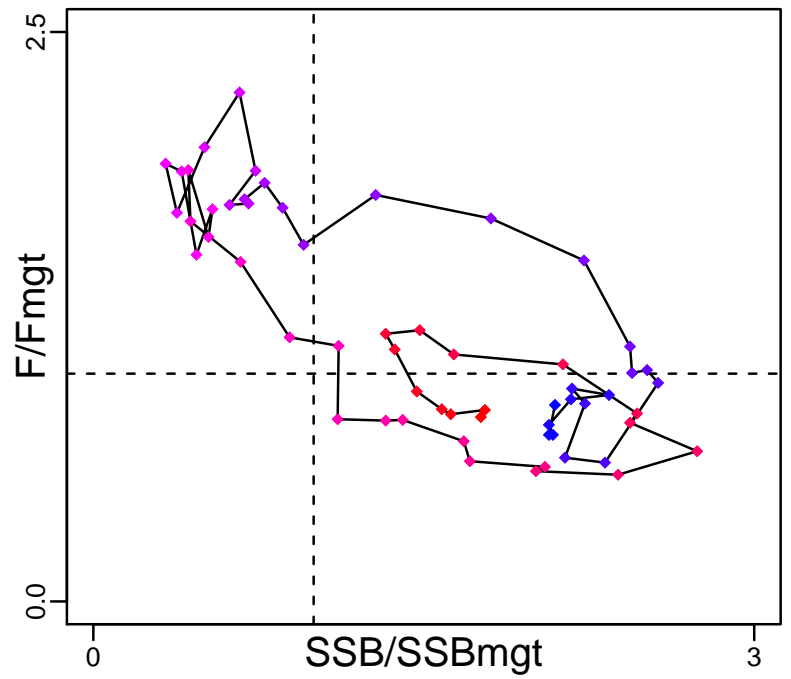
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	714,000	Both	-
<b>SSB</b>	SSB-MT	2018	383,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$1.58 \times 10^8$	-	3
<b>F</b>	F-1/yr	2018	0.259	-	4 to 7
<b>ER</b>	ER-calc-ratio	2018	0.191	-	-
<b>TC</b>	TC-MT	2018	146,000		
<b>TL</b>	TL-MT	2018	146,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	1.741		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	0.809		
<b>ER/ERmgt</b>	-	-	-		

Pollock North-East Arctic [POLLNEAR]

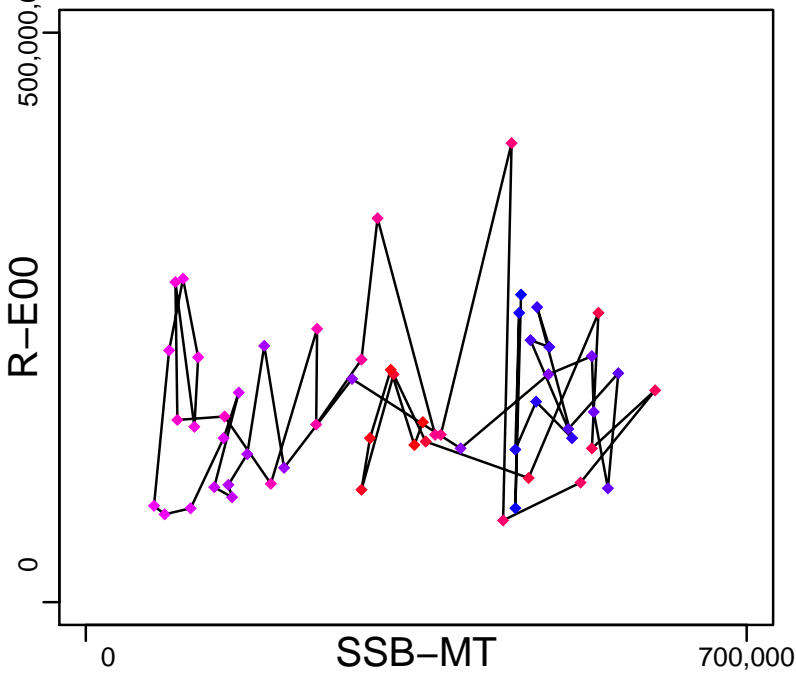
Kobe MSYpref (1957–2018–ICESIMP2018)



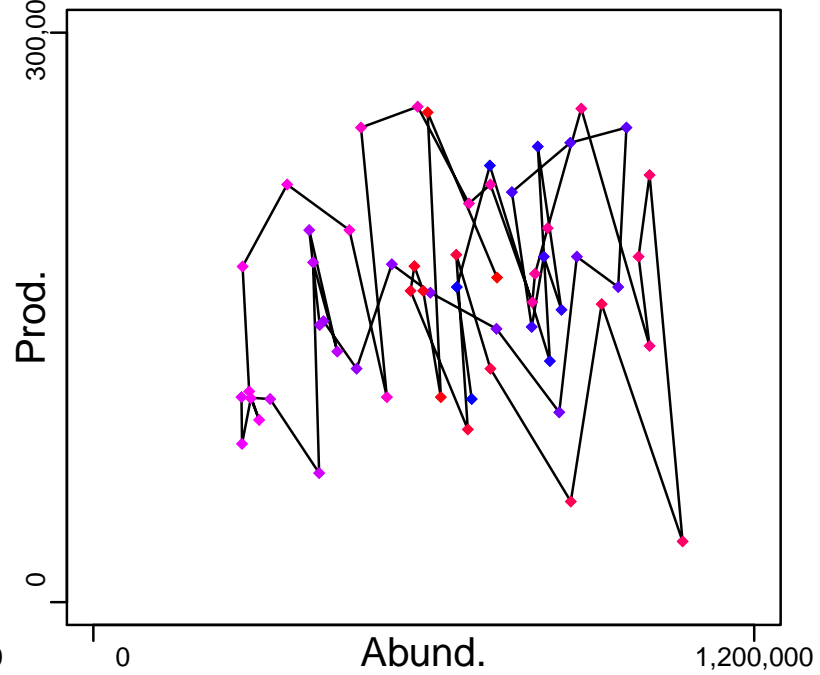
Kobe MGTpref (1957–2018–ICESIMP2018)



Spawner Recruit (1957–2018–ICESIMP2018)



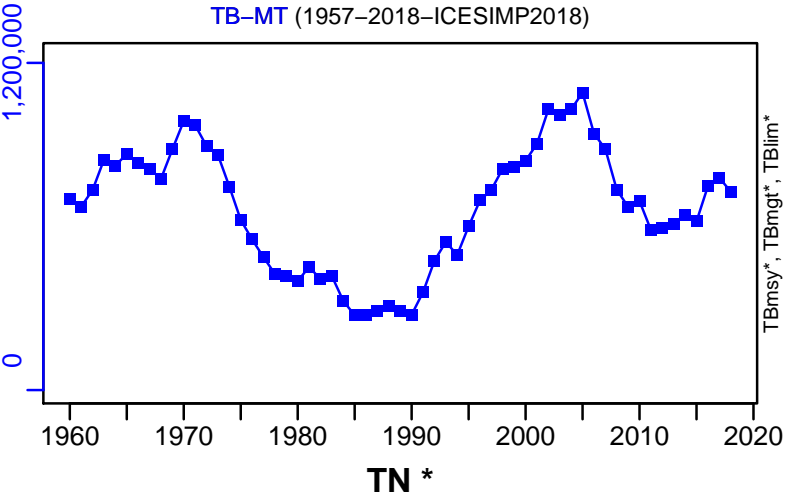
Production (1957–2018–ICESIMP2018)



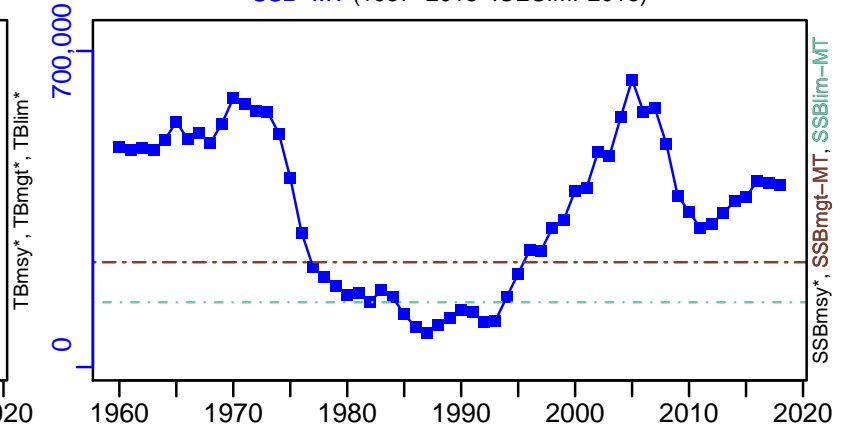
◆ Start Year ◆ End Year \* No Data

# Pollock North-East Arctic [POLLNEAR]

TB-MT (1957–2018–ICESIMP2018)



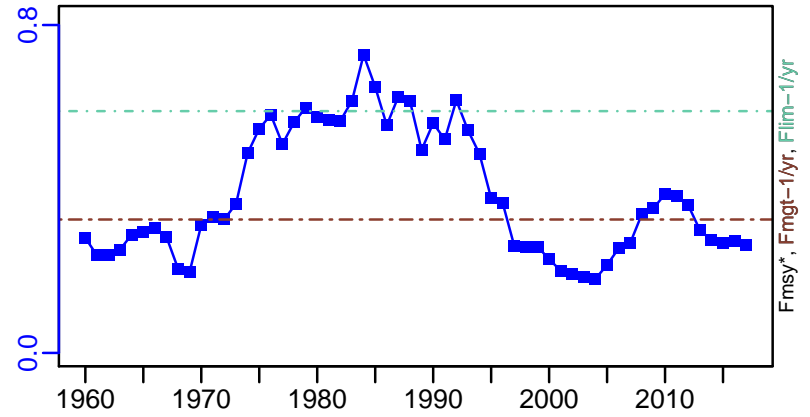
SSB-MT (1957–2018–ICESIMP2018)



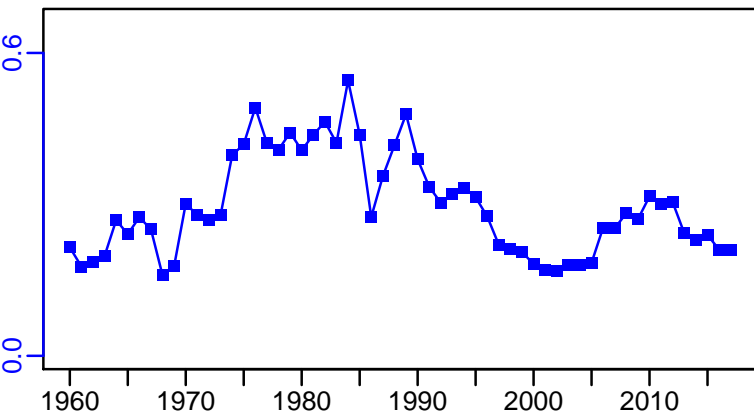
TN \*



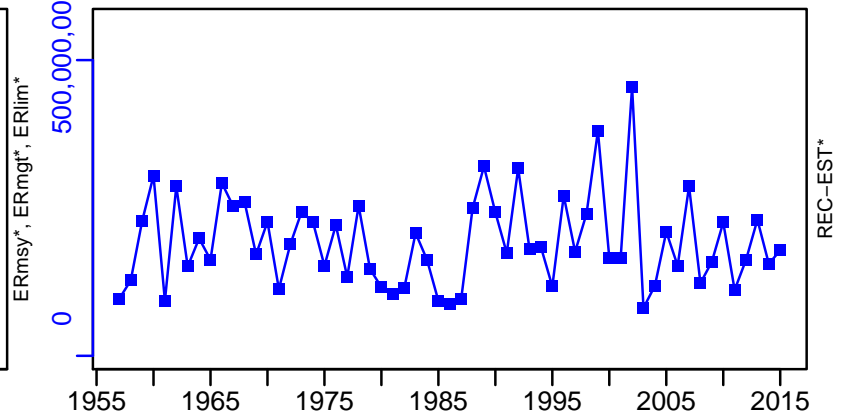
F-1/yr (1957–2018–ICESIMP2018)



ER-calc-ratio (1957–2018–ICESIMP2018)



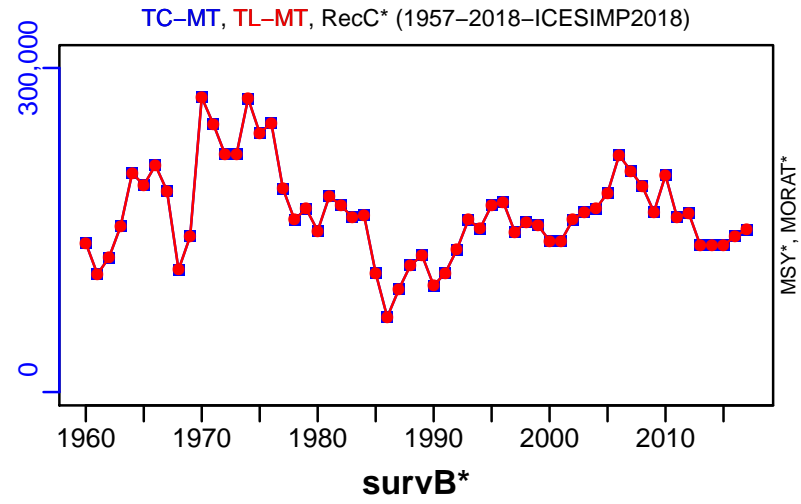
R-E00 (1957–2018–ICESIMP2018)





Pollock North-East Arctic [POLLNEAR]

TC-MT, TL-MT, RecC\* (1957-2018-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



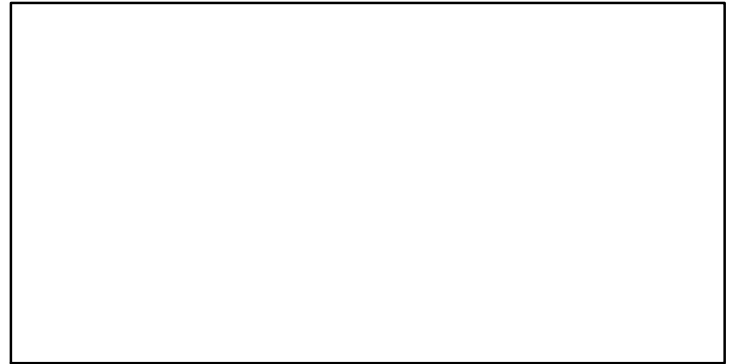
CPUE\*



EFFORT\*



CdivMSY\*



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

**Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep)  
[REDDEEPDP-1-2-V-XII-XIV]**

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPDP-1-2-V-XII-XIV-1980-2016-ICESIMP2018
<b>Area</b>	ICES 5-12-14 and NAFO Subareas 1-2 (deep)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-relative	2016	0.17
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-relative	2016	1.09
<b>Fmgt</b>	Fmgt-relative	2016	0.17
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-relative	2016	0.779
<b>Flim</b>	Flim-relative	2016	0.24
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-relative	2016	0.53	Both	-
<b>SSB</b>	SSB-relative	2016	0.48	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2016	940,000	-	5
<b>F</b>	F-relative	2016	1.11	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2016	27,400		
<b>TL</b>	TL-MT	2016	27,400		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

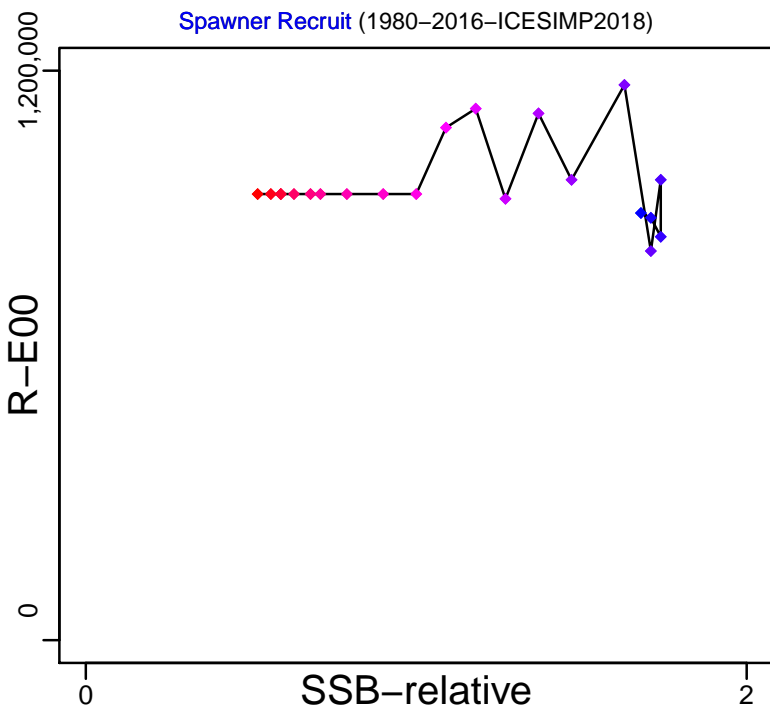
**Kobe MSY\***



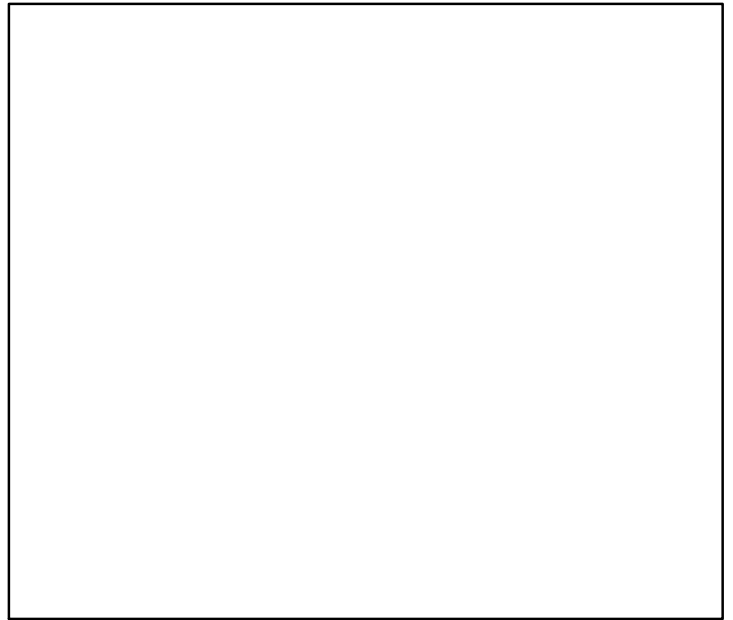
**Kobe MGT\***



Spawner Recruit (1980–2016–ICESIMP2018)



**Production\***

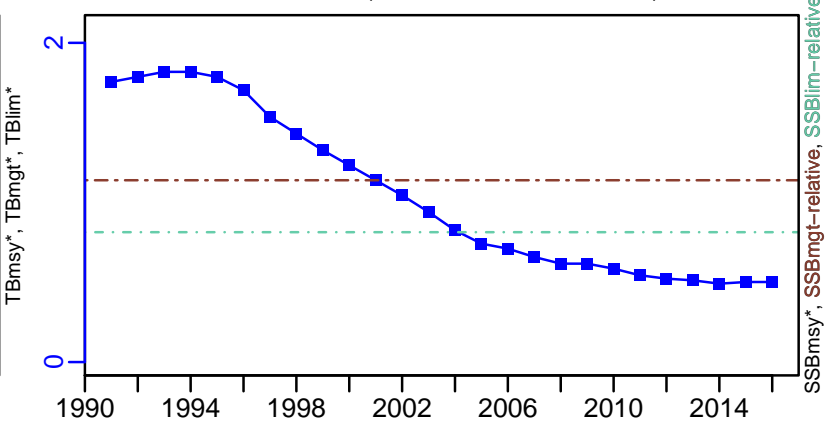
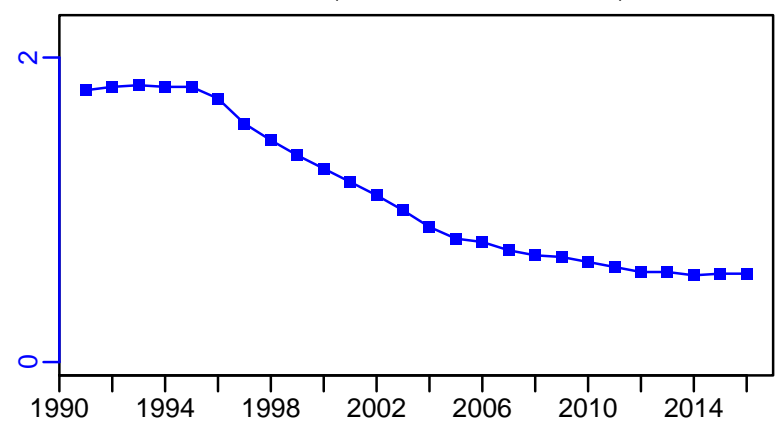


◆ Start Year ◆ End Year \* No Data

# Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep) [REDDEEPDP-1-2-V-XII-XIV]

TB-relative (1980-2016-ICESIMP2018)

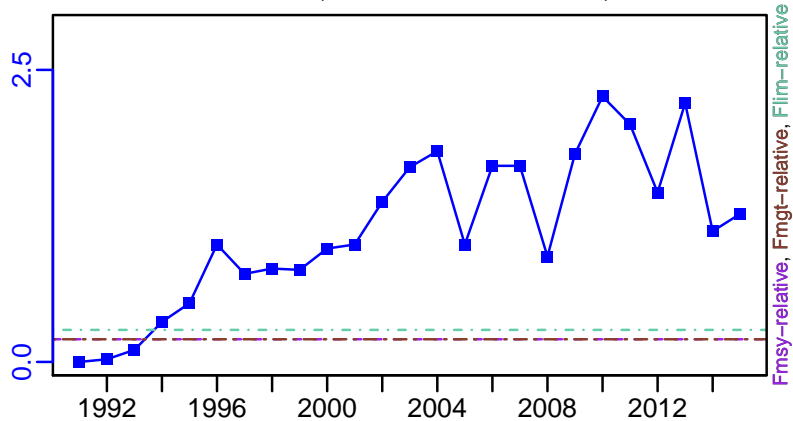
SSB-relative (1980-2016-ICESIMP2018)



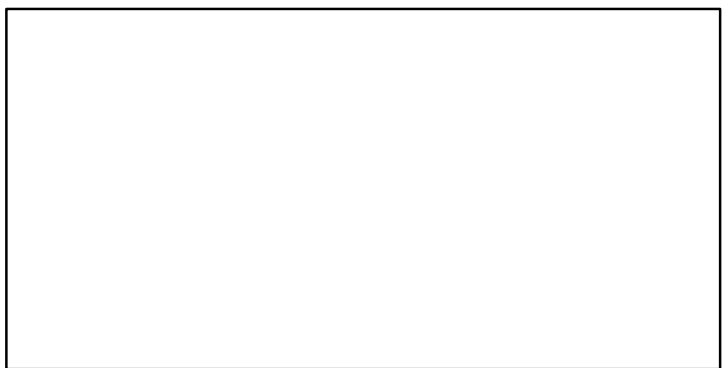
TN \*



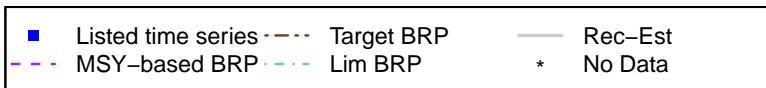
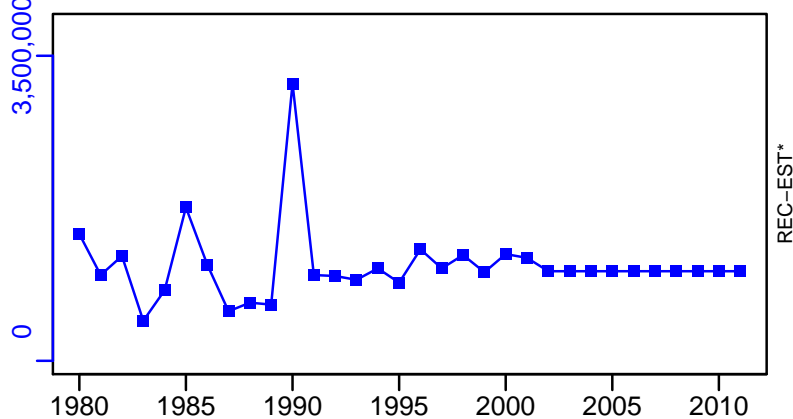
F-relative (1980-2016-ICESIMP2018)



ER\*

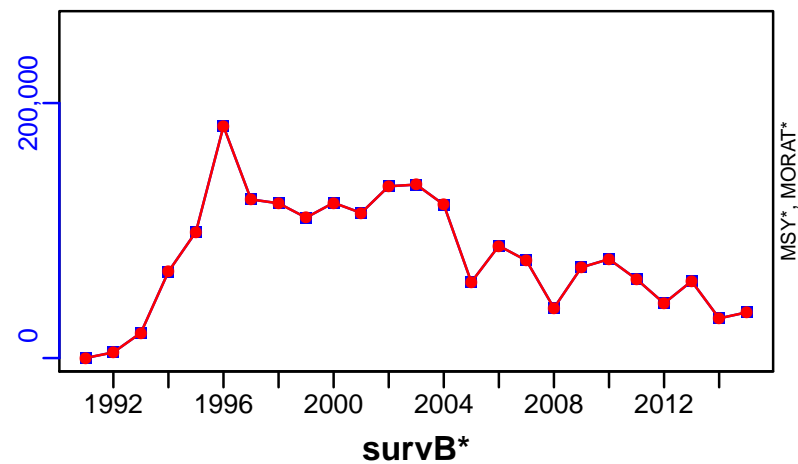


R-E00 (1980-2016-ICESIMP2018)



# Beaked redfish ICES 5–12–14 and NAFO Subareas 1–2 (deep) [REDDEEPDP–1–2–V–XII–XIV]

TC–MT, TL–MT, RecC\* (1980–2016–ICESIMP2018)



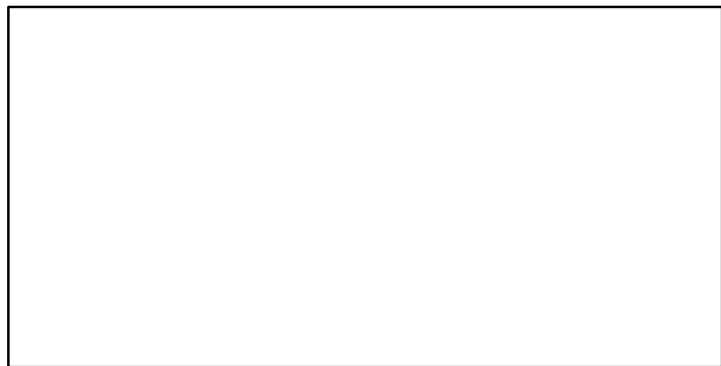
TAC\*, Cpair\*, Cadv\*



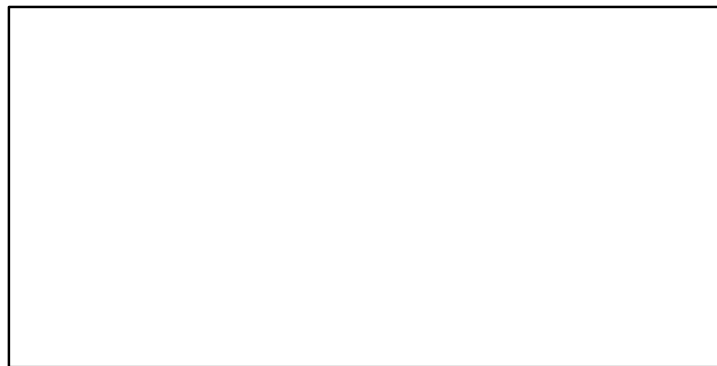
CPUE\*



EFFORT\*



CdivMSY\*



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

## Deepwater redfish North-East Arctic [REDDEEPI-II]

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPI-II-1990-2016-ICESIMP2018
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2006, 2014, 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	TB-MT	2016	1,260,000	Both	-
SSB	SSB-MT	2016	857,000	Both	-
TN	-	-	-	-	-
R	R-E00	2016	$1.78 \times 10^8$	-	2
F	F-1/yr	2016	0.03	-	12 to 18
ER	ER-calc-ratio	2016	0.027	-	-
TC	-	-	-		
TL	TL-MT	2016	34,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

# Deepwater redfish North-East Arctic [REDDEEPI-II]

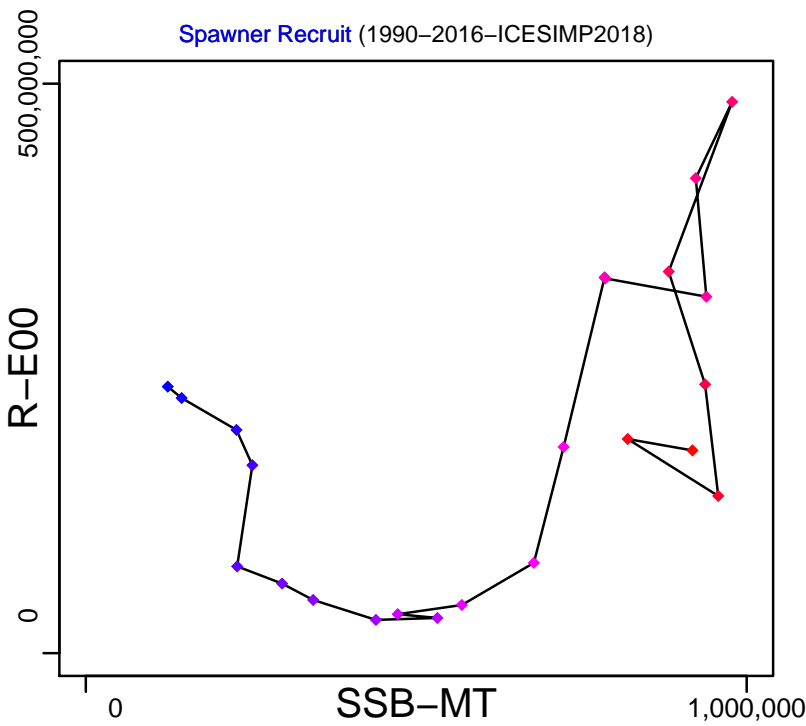
Kobe MSY\*



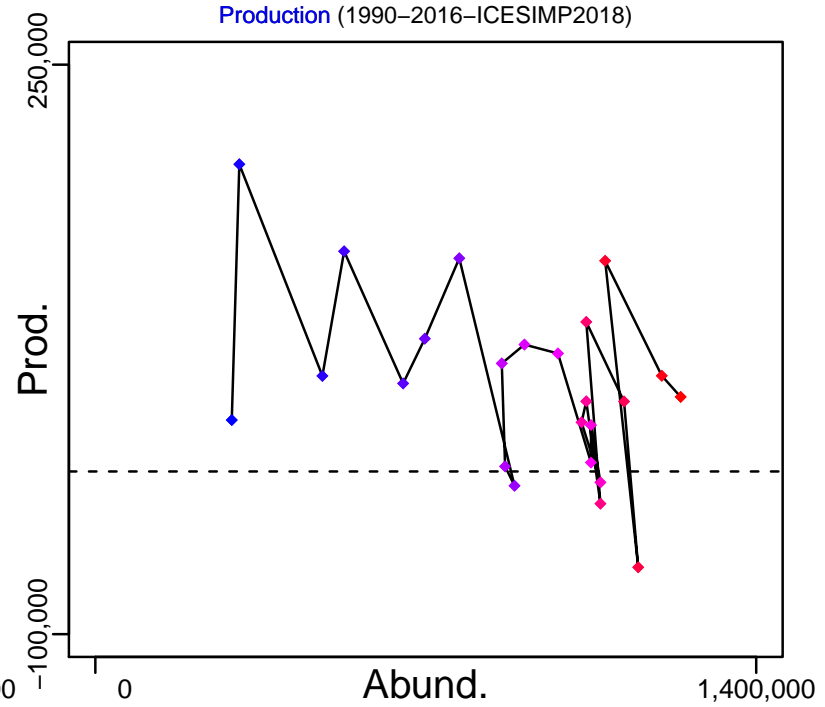
Kobe MGT\*



Spawner Recruit (1990–2016–ICESIMP2018)

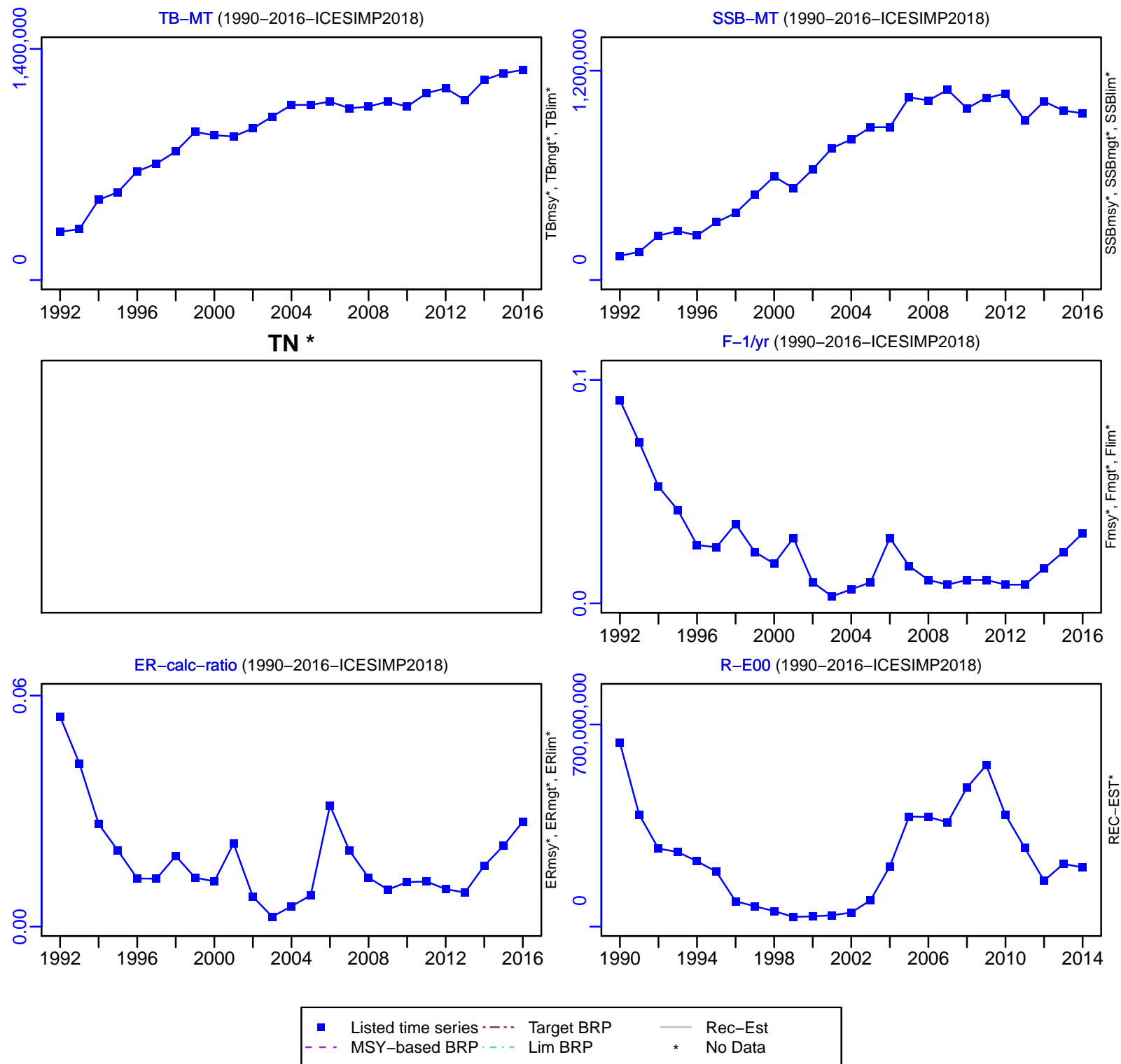


Production (1990–2016–ICESIMP2018)



◆ Start Year ◆ End Year \* No Data

# Deepwater redfish North-East Arctic [REDDEEPI-II]

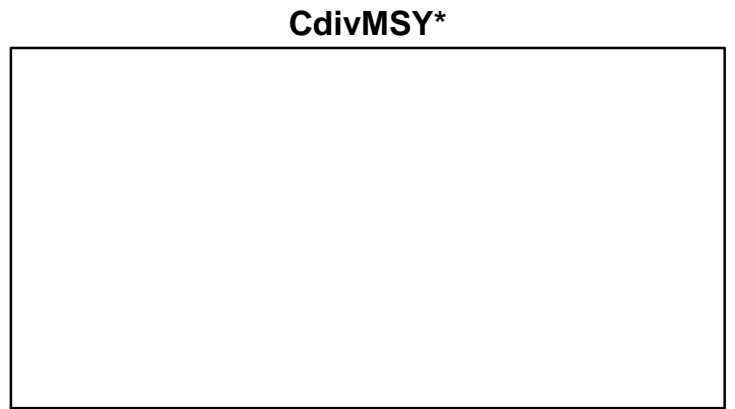
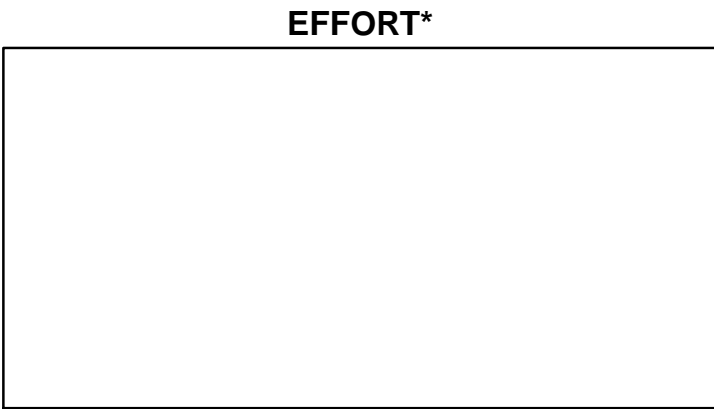
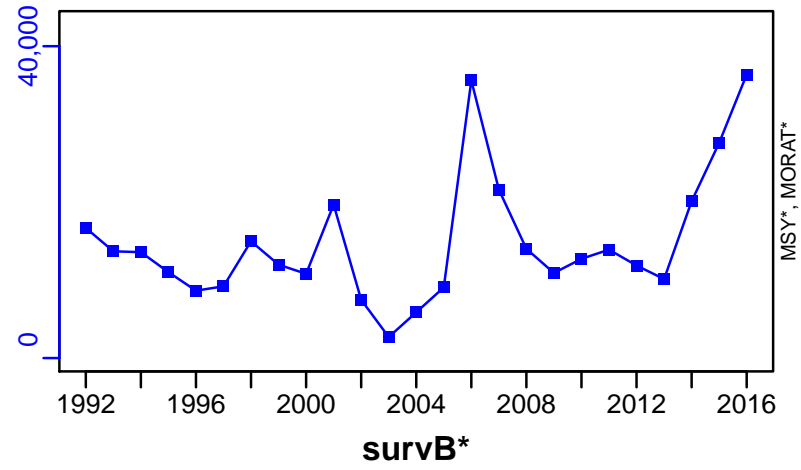




# Deepwater redfish North-East Arctic [REDDEEPI-II]

TL-MT, TC\*, RecC\* (1990-2016-ICESIMP2018)

TAC\*, Cpair\*, Cadv\*



**Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (shallow)  
[REDDEEPSH1-2-V-XII-XIV]**

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPSH1-2-V-XII-XIV-1982-2016-ICESIMP2016
<b>Area</b>	ICES 5-12-14 and NAFO Subareas 1-2 (shallow)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	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	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	5600		
TL	TL-MT	2016	5600		
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

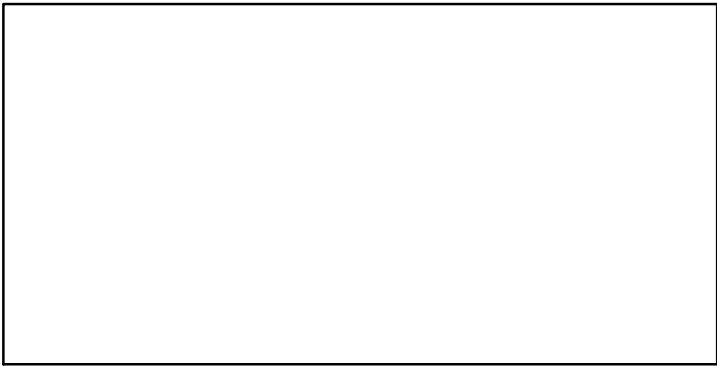
**TB\***



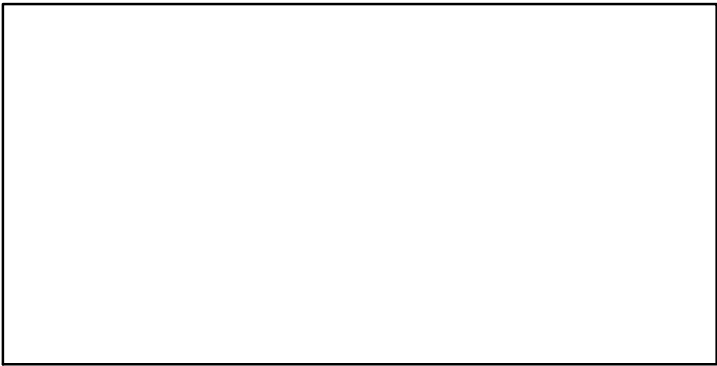
**SSB\***



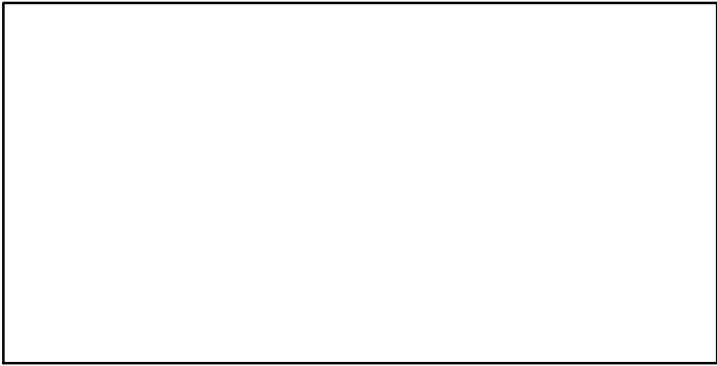
**TN \***



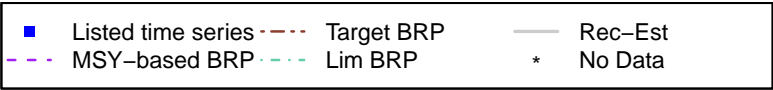
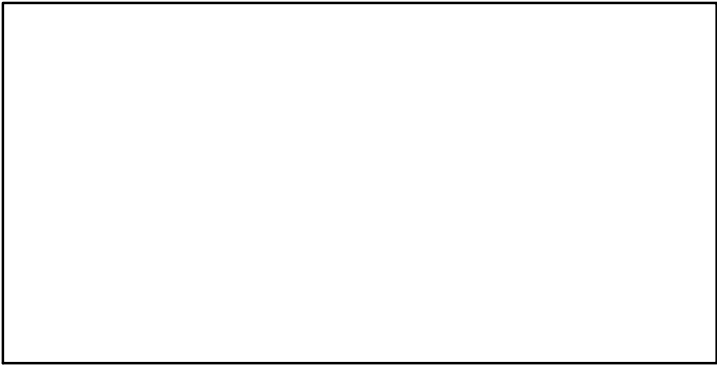
**F\***



**ER\***

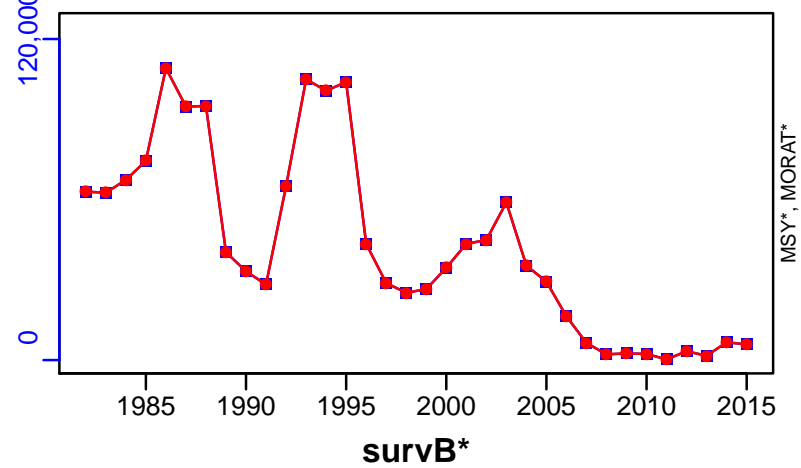


**Recruits\***



Beaked redfish ICES 5–12–14 and NAFO Subareas 1–2 (shallow) [REDDEEPSH1–2–V–XII–XIV]

TC–MT, TL–MT, RecC\* (1982–2016–ICESIMP2016)



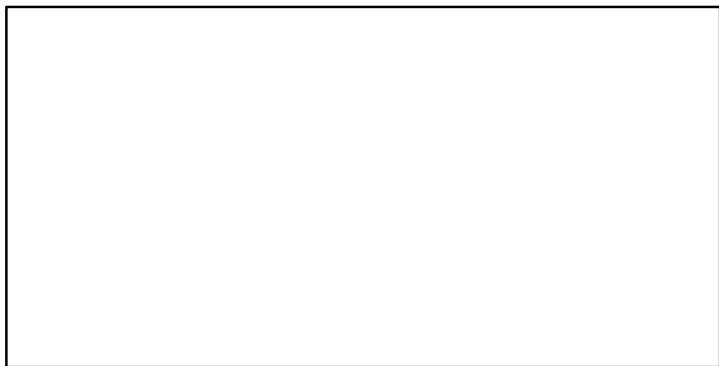
TAC\*, Cpair\*, Cadv\*



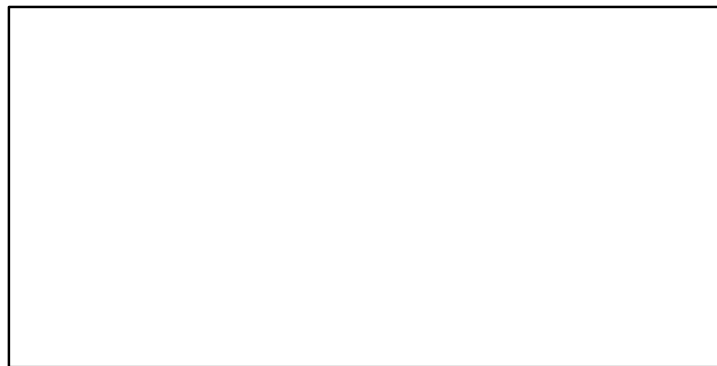
CPUE\*



EFFORT\*



CdivMSY\*



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

### Beaked redfish ICES 5a-14 [REDDEEPVa-XIV]

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPVa-XIV-1978-2017-ICESIMP2018
<b>Area</b>	ICES 5a-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2016, 2016, 2017

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	2017	8370		
TL	TL-MT	2017	8370		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



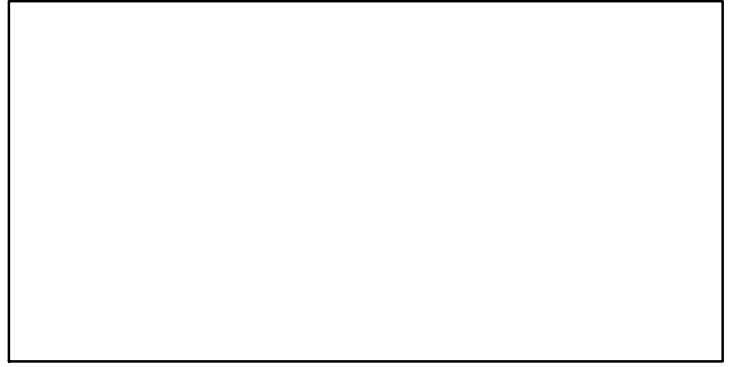
◆ Start Year ◆ End Year \* No Data

Beaked redfish ICES 5a–14 [REDDEEPVa–XIV]

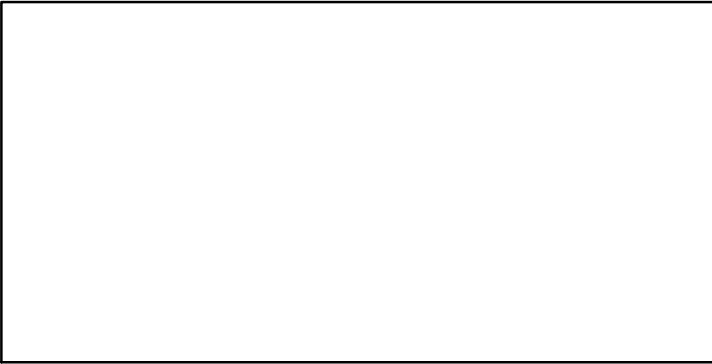
**TB\***



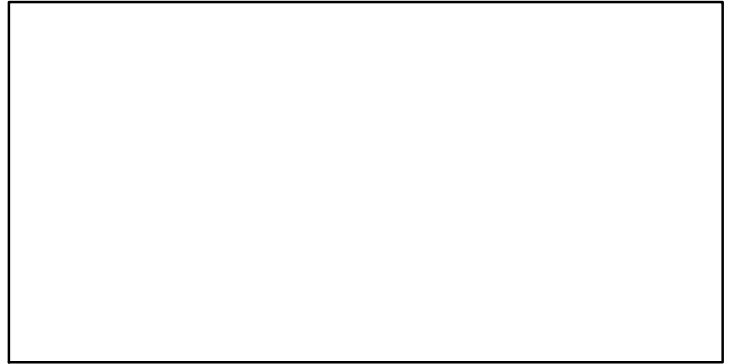
**SSB\***



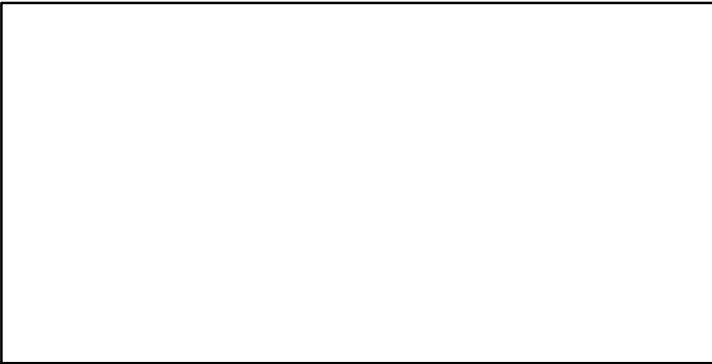
**TN \***



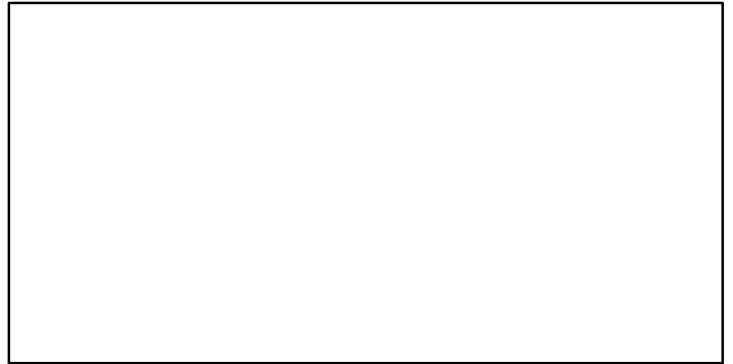
**F\***



**ER\***



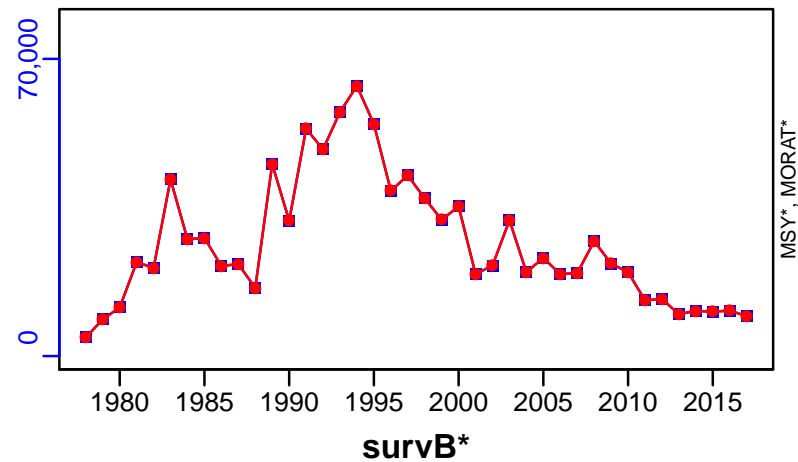
**Recruits\***





# Beaked redfish ICES 5a-14 [REDDEEPVa-XIV]

TC-MT, TL-MT, RecC\* (1978-2017-ICESIMP2018)



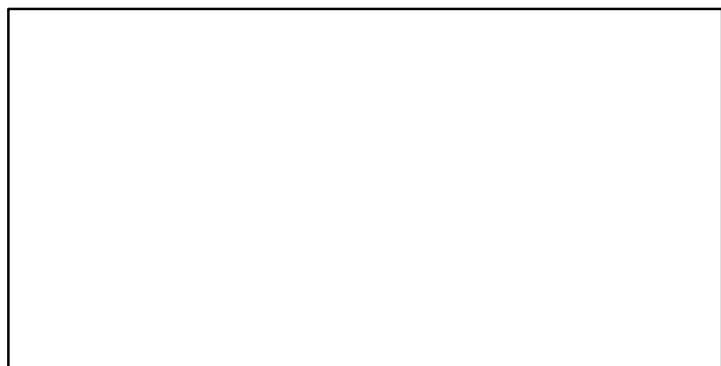
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*

