

# Europe non EU Stocks

## v4.61 (Apr-02-2023)

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-6a]	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 [Saithe Faroe Plateau]	TB SSB	ER F	TB SSB	ER F	
25. POLLIEG [Saithe Iceland Grounds]	TB SSB	ER F	TB SSB	ER F	
26. POLLNEAR [Saithe 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	

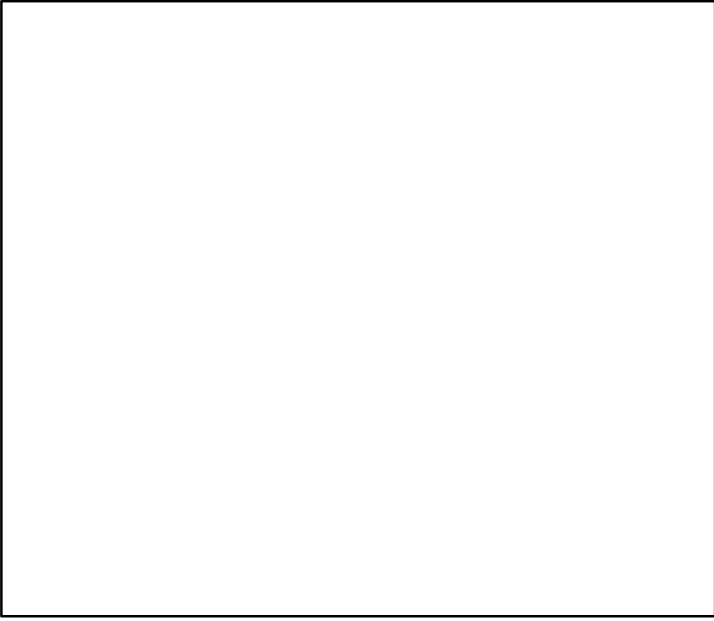
## Blue ling ICES 5a-14 [BLINGVa-XIV]

Metadata	
<b>Scientific Name</b>	Molva dypterygia
<b>Current Assess ID</b>	WGDEEP-BLINGVa-XIV-1973-2020-ICESIMP2021-2
<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>	2018, 2020, 2016, 2016, 2017

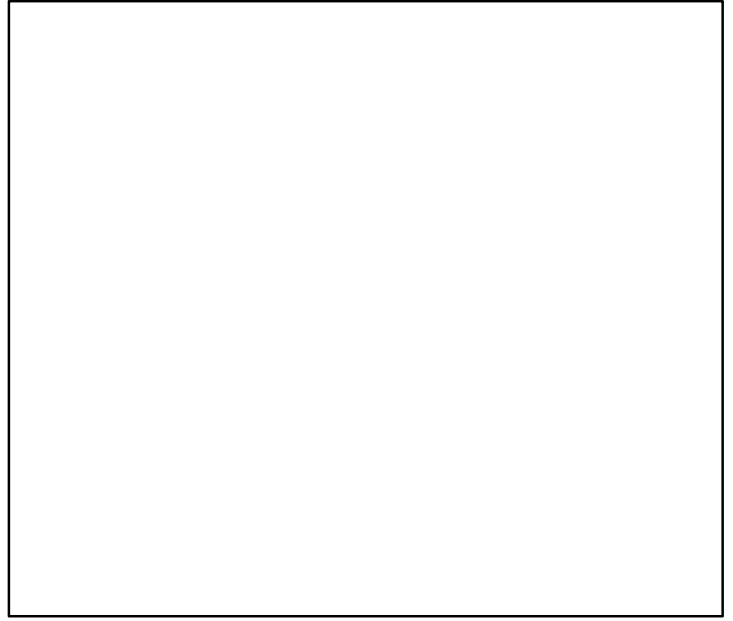
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-MT	2020	717	-	-
TN	-	-	-	-	-
R	R-E00	2020	28	-	-
F	F-1/yr	2016	0.834	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	376		
TL	TL-MT	2016	1810		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

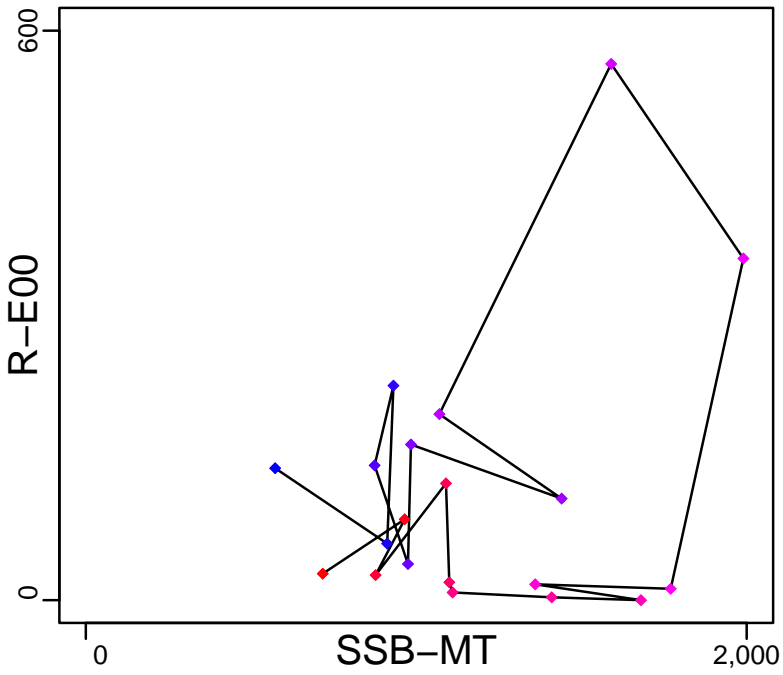
**Kobe MSY\***



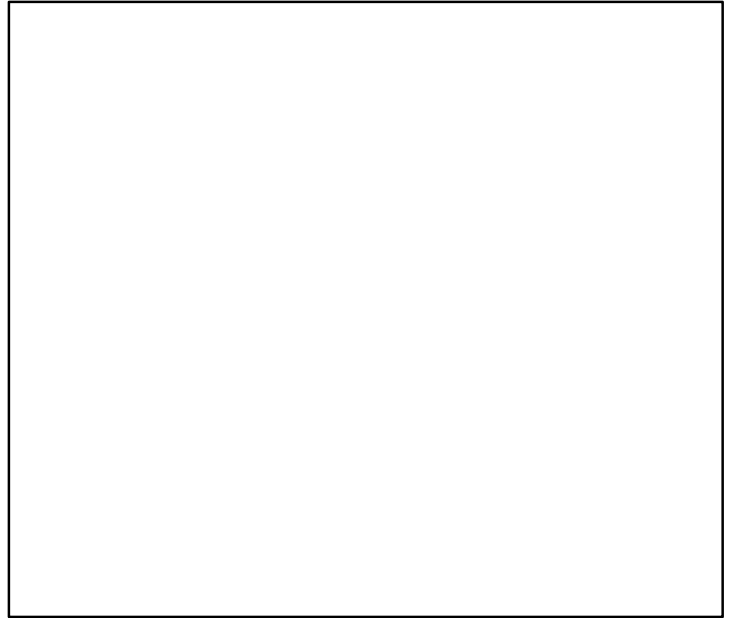
**Kobe MGT\***



**Spawner Recruit** (1973–2020–ICESIMP2021–2)



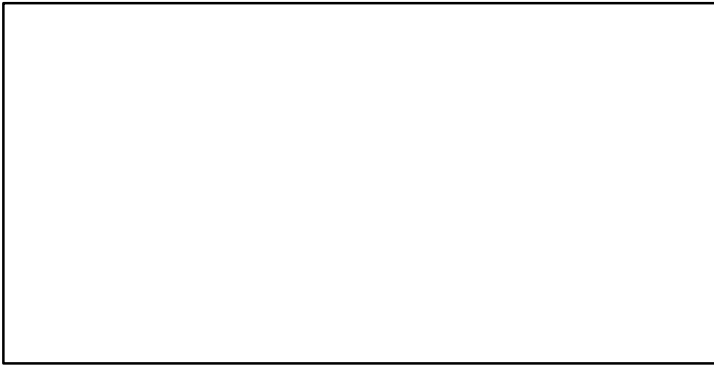
**Production\***



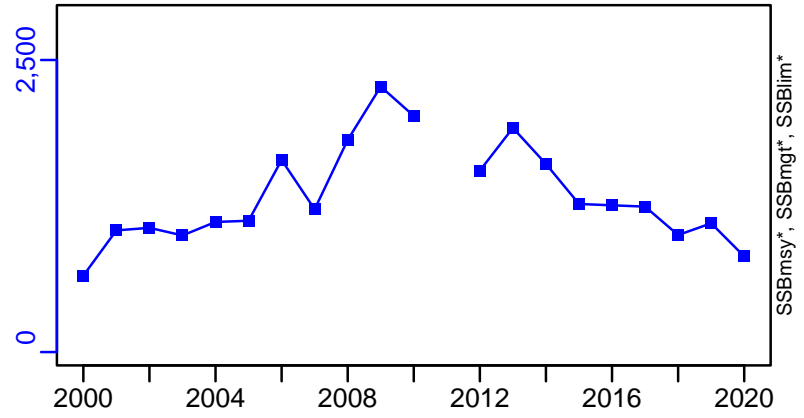
◆ Start Year ◆ End Year \* No Data

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

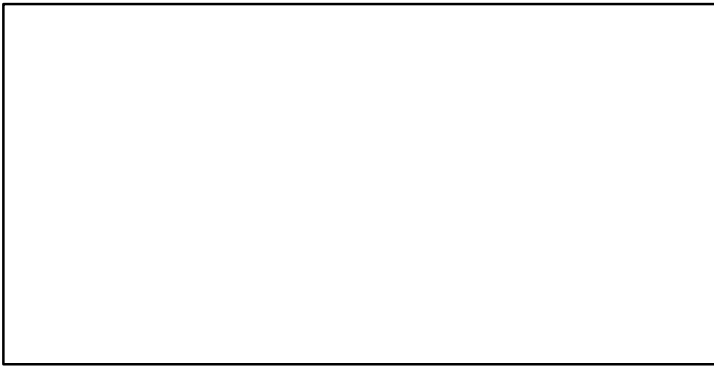
TB\*



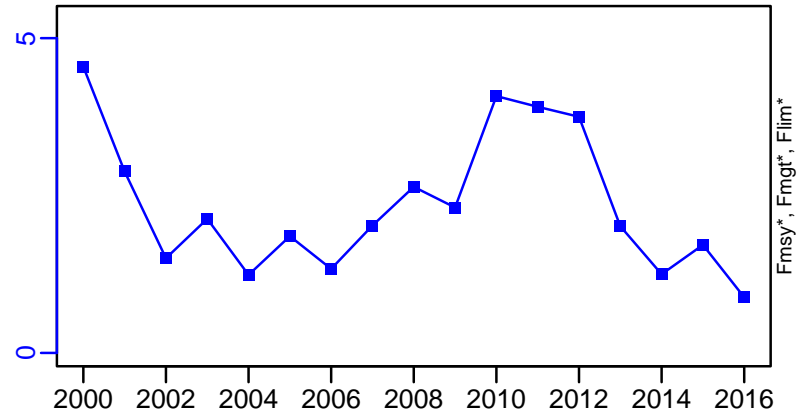
SSB-MT (1973-2020-ICESIMP2021-2)



TN \*



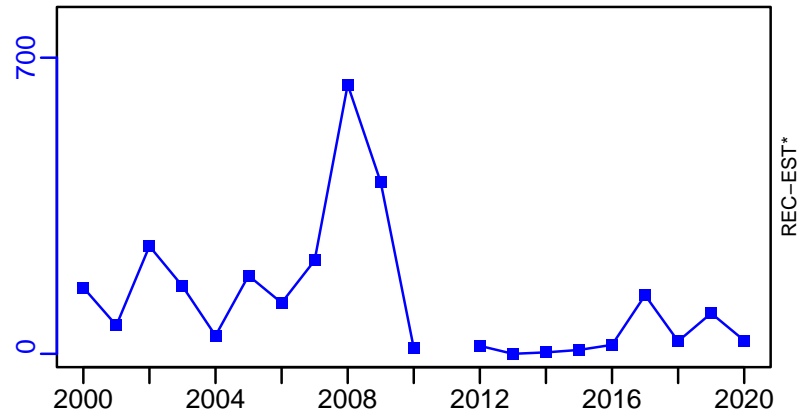
F-1/yr (2000-2016-ICESIMP2018)



ER\*

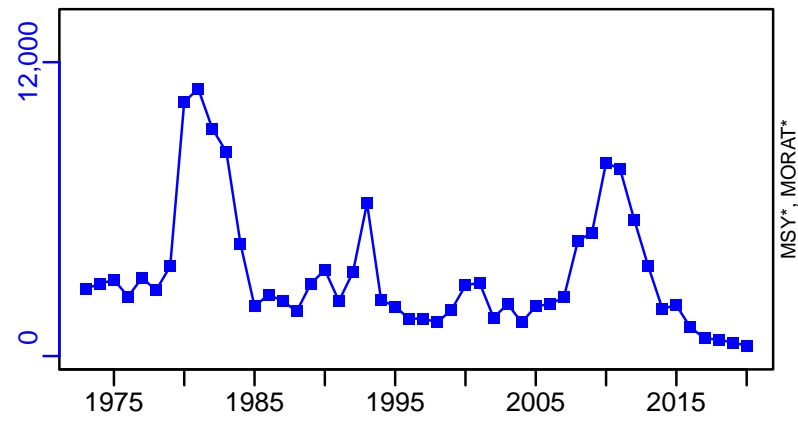


R-E00 (1973-2020-ICESIMP2021-2)



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

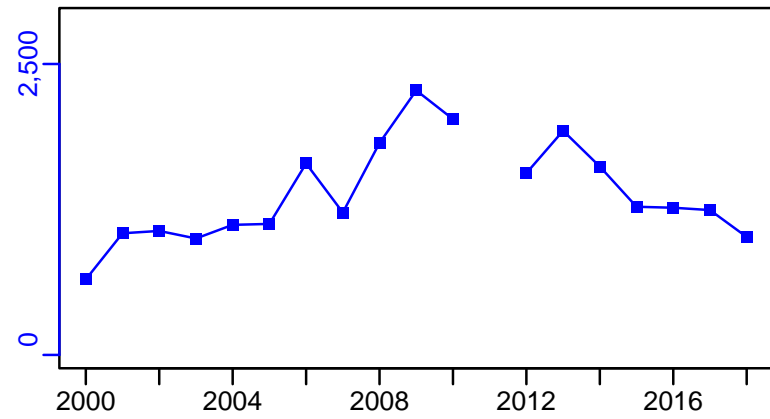
TC-MT, TL\*, RecC\* (1973-2020-ICESIMP2021-2)



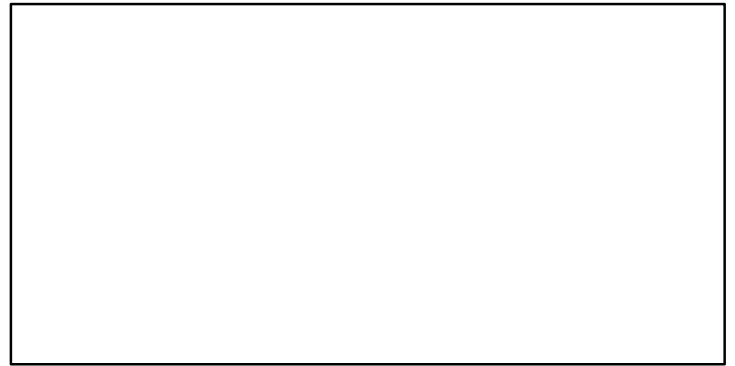
TAC\*, Cpair\*, Cadv\*



survB-MT (1973-2018-ICESIMP2021)



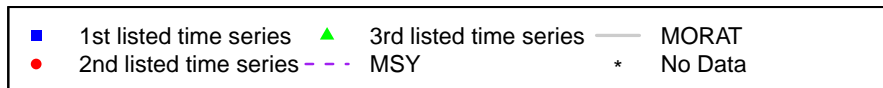
CPUE\*



EFFORT\*



CdivMSY\*

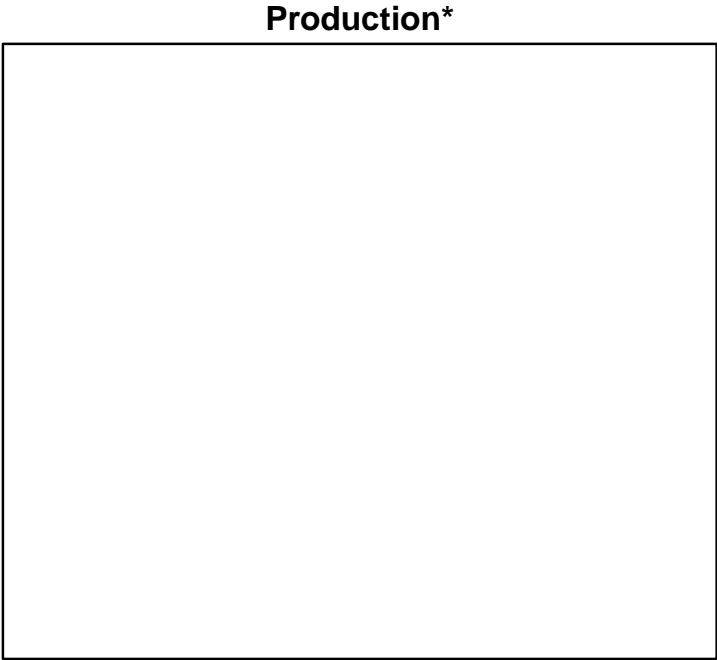
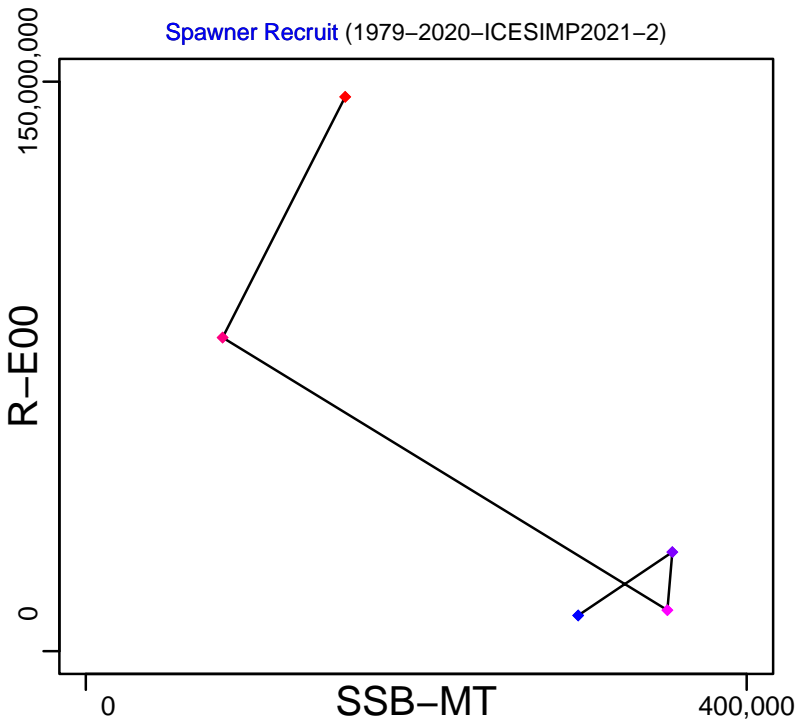
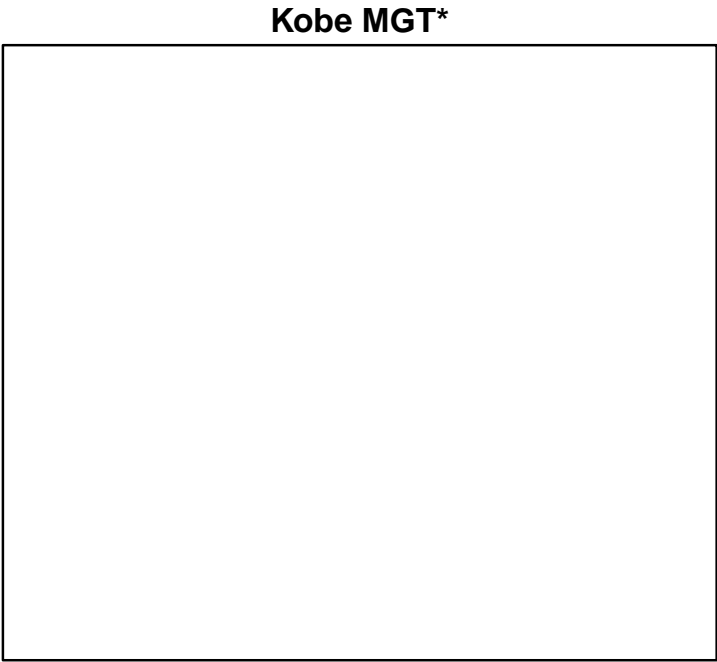
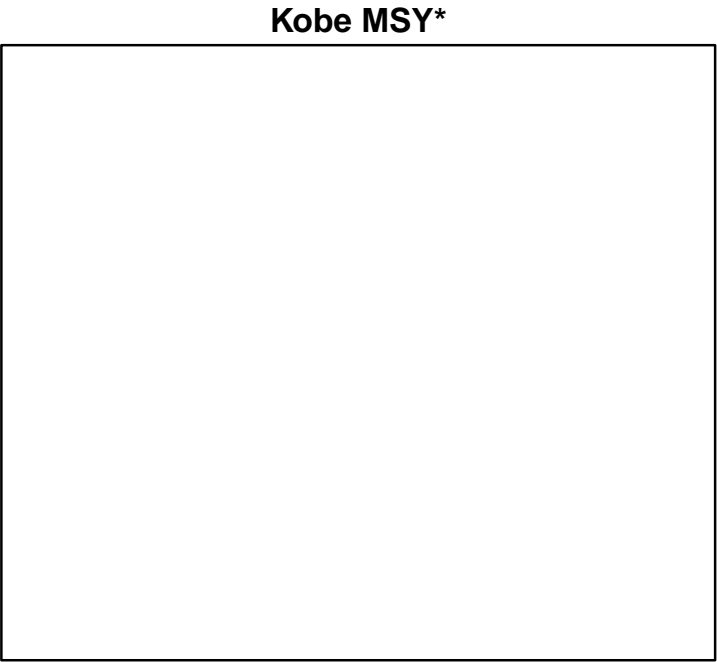


## Capelin ICES 2a-5-14 [CAPEIIa-V-XIV]

Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	NWWG-CAPEIIa-V-XIV-1979-2020-ICESIMP2021-2
<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, 2019, 2020

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	2020	150,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2020	150,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2020	157,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2020	$1.46 \times 10^8$	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-ratio	2010	0.016	-	-
<b>TC</b>	TC-MT	2020	0		
<b>TL</b>	TL-MT	2020	0		
<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	2020	1.047		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		



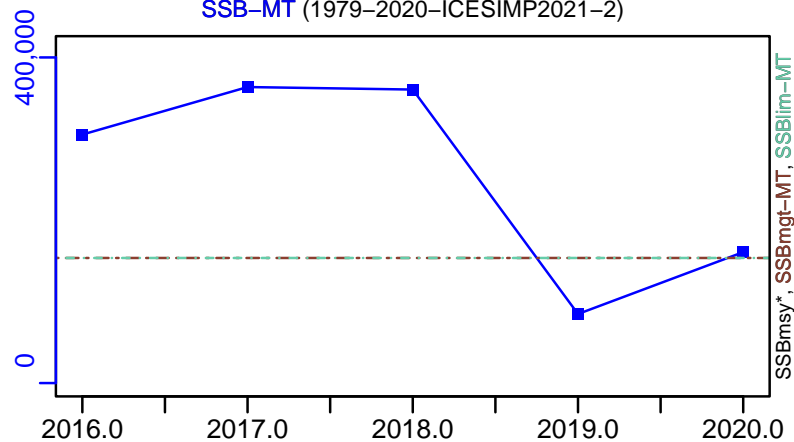
◆ Start Year ◆ End Year \* No Data

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

TB\*



SSB-MT (1979-2020-ICESIMP2021-2)



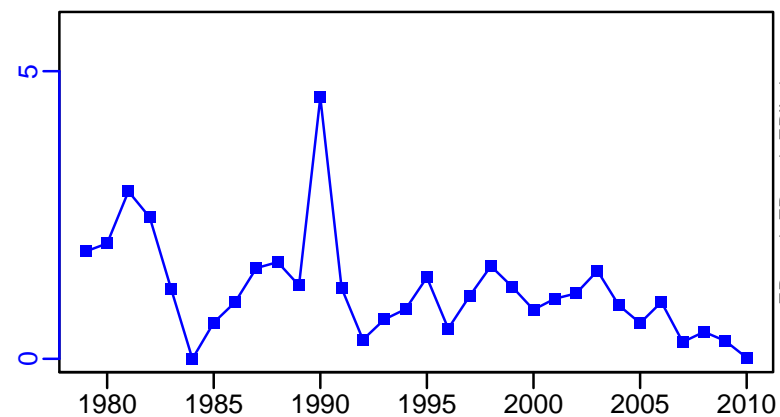
TN \*



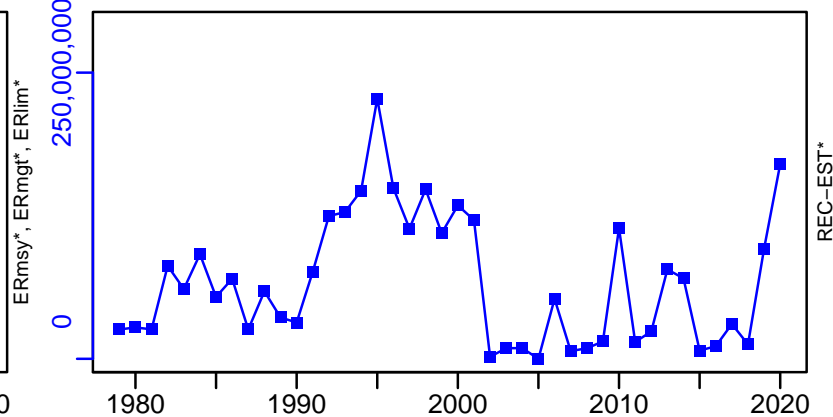
F\*



ER-ratio (1977-2010-NEUBAUER)



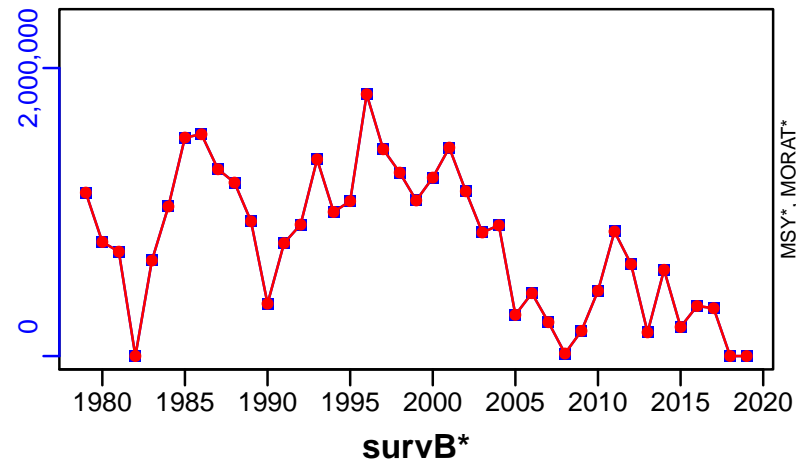
R-E00 (1979-2020-ICESIMP2021-2)



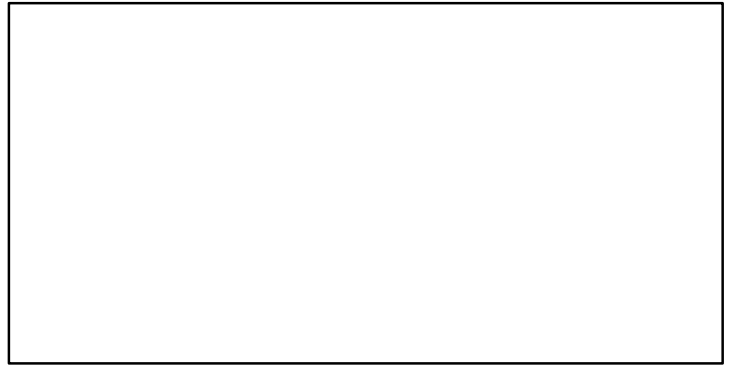


Capelin ICES 2a-5-14 [CAPElla-V-XIV]

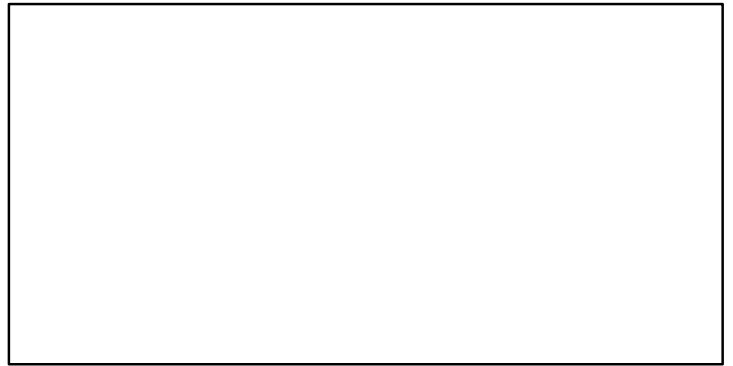
TC-MT, TL-MT, RecC\* (1979-2020-ICESIMP2021-2)



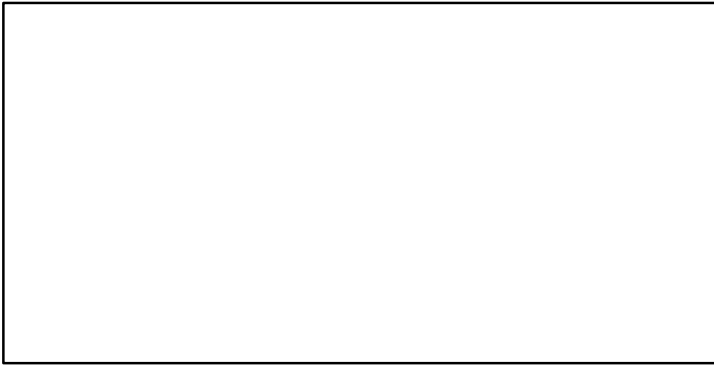
TAC\*, Cpair\*, Cadv\*



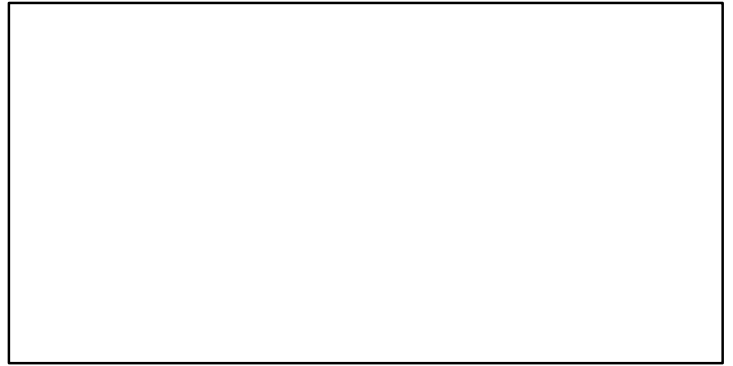
CPUE\*



EFFORT\*



CdivMSY\*



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

## Capelin Barents Sea [CAPENOR]

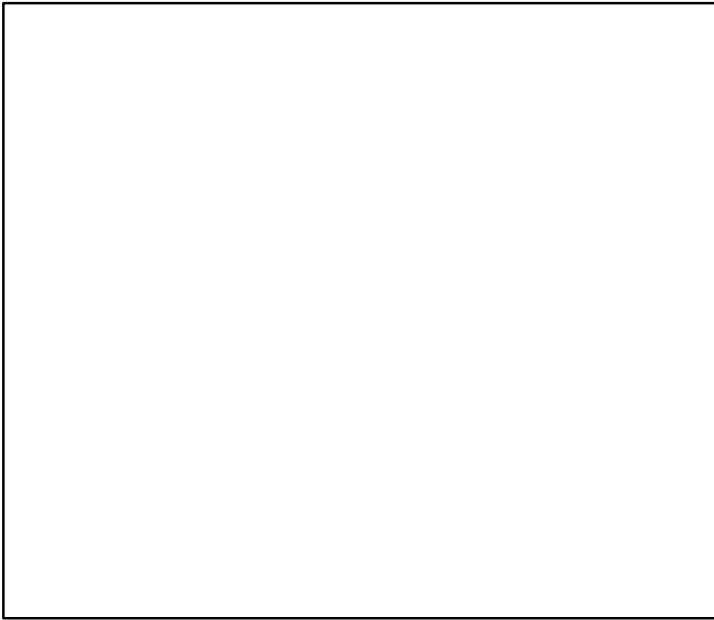
Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	AFWG-CAPENOR-1972-2021-ICESIMP2021-2
<b>Area</b>	Barents Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2007, 2016, 2017, 2018, 2019, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	$2 \times 10^5$
Flim	-	-	-
ERlim	-	-	-

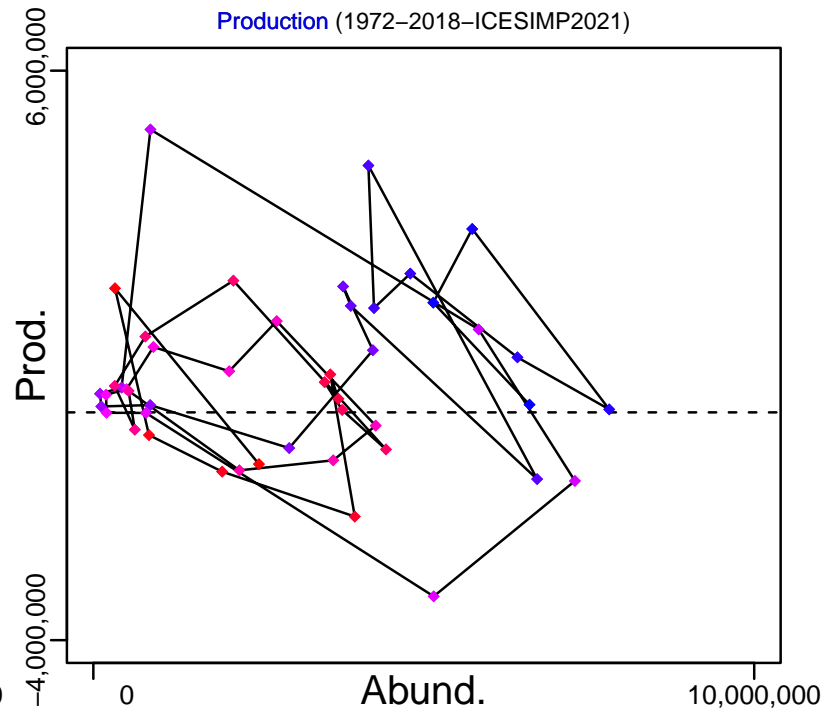
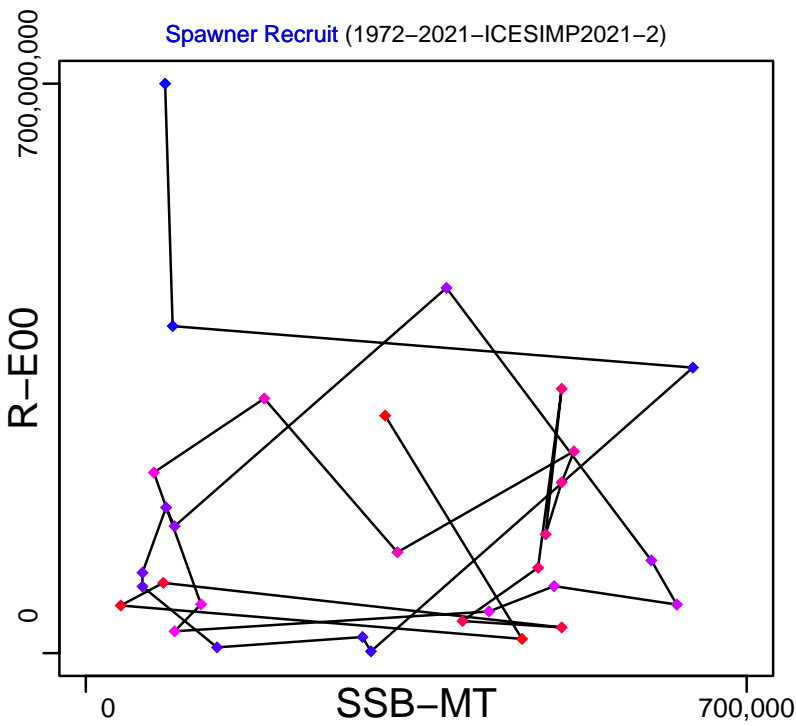
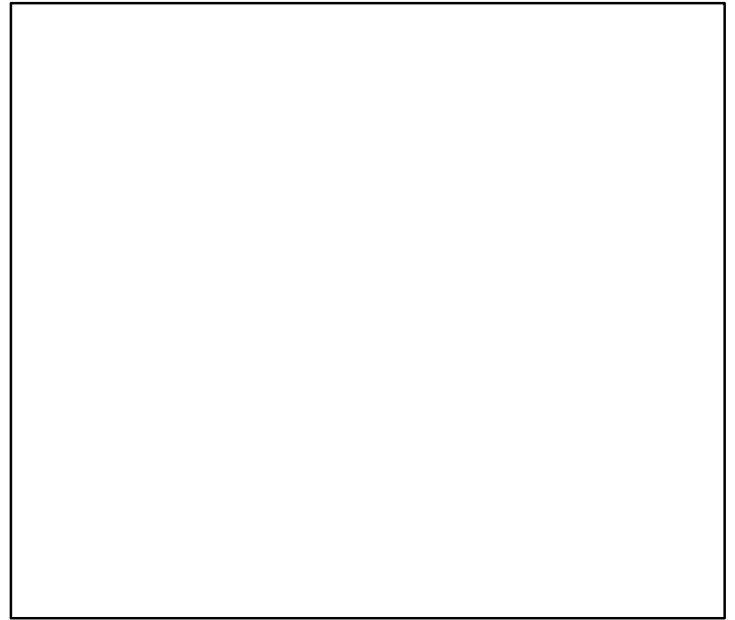
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2018	1,597,000	-	-
SSB	SSB-MT	2021	156,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	$2.92 \times 10^8$	-	1
F	-	-	-	-	-
ER	ER-calc-ratio	2018	0.122	-	-
TC	TC-MT	2021	31		
TL	TL-MT	2019	0		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Capelin Barents Sea [CAPENOR]

Kobe MSY\*



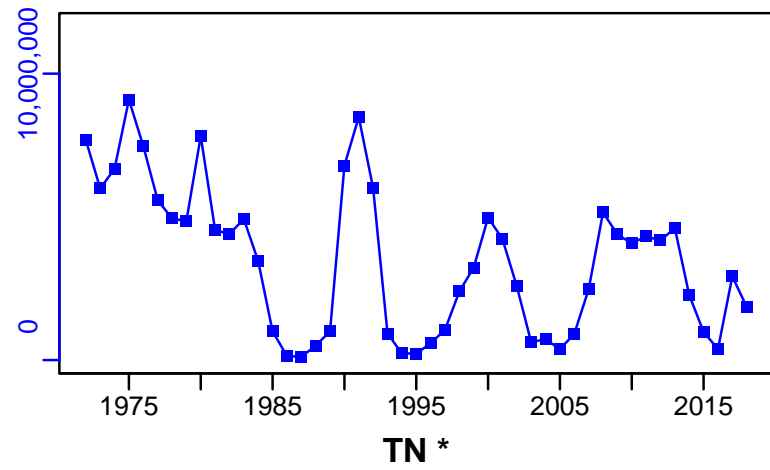
Kobe MGT\*



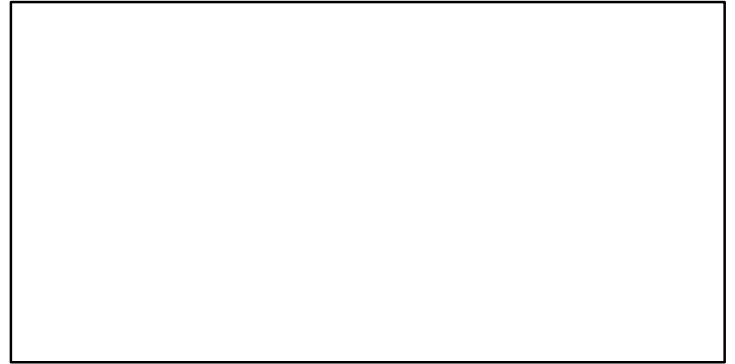
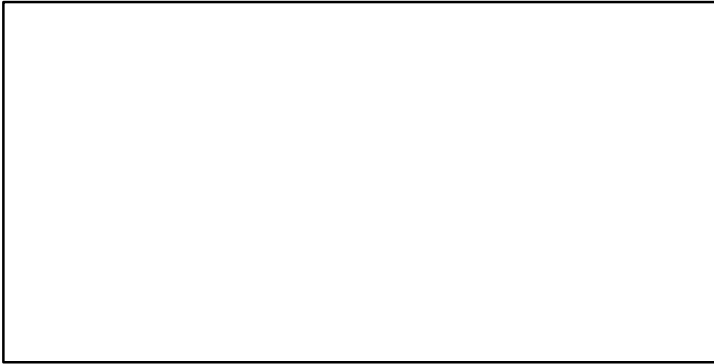
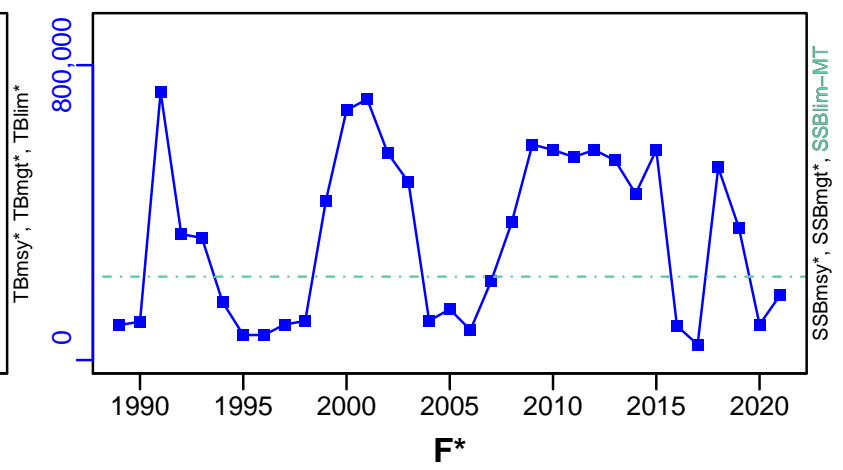
◆ Start Year ◆ End Year \* No Data

# Capelin Barents Sea [CAPENOR]

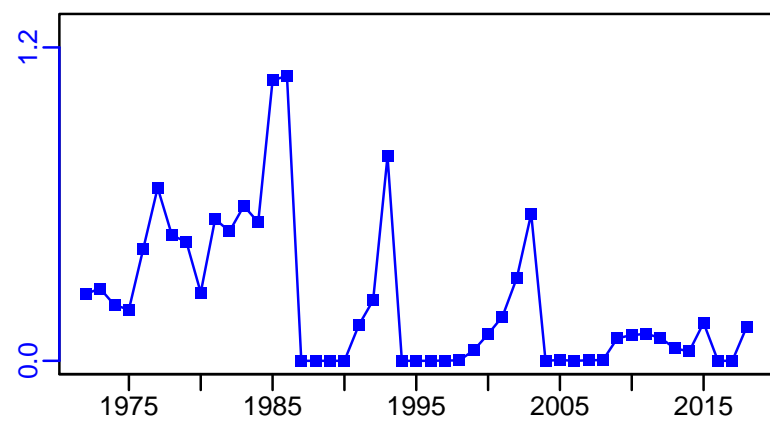
TB-MT (1972–2018–ICESIMP2021)



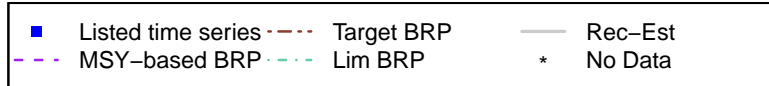
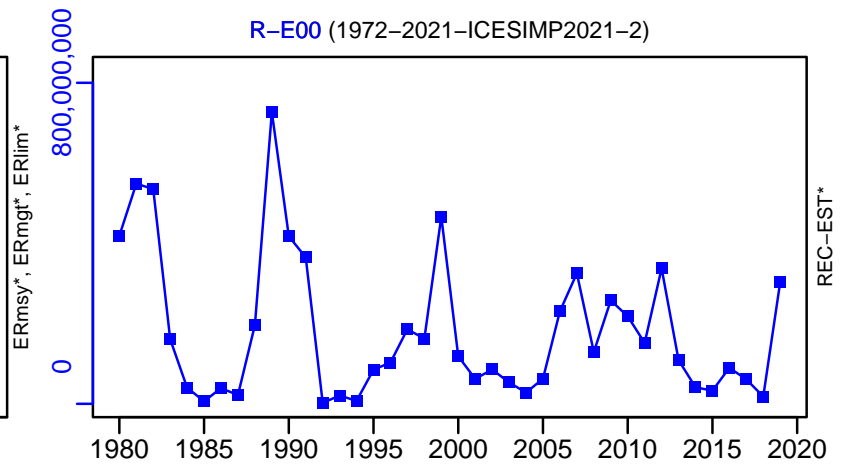
SSB-MT (1972–2021–ICESIMP2021–2)



ER-calc-ratio (1972–2018–ICESIMP2021)

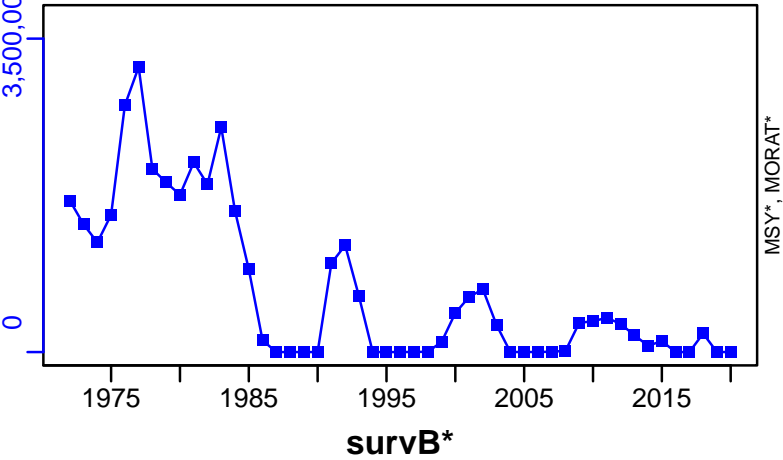


R-E00 (1972–2021–ICESIMP2021–2)

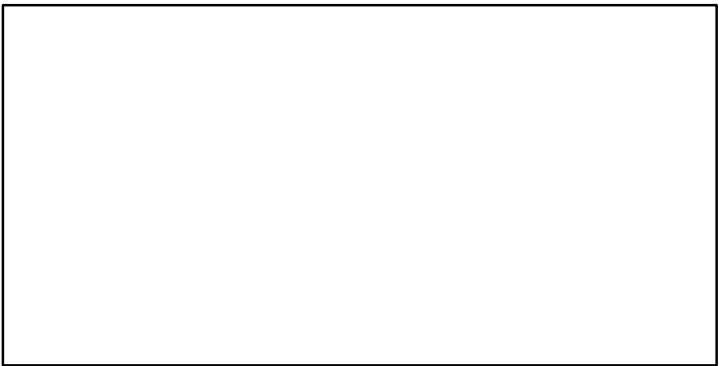


Capelin Barents Sea [CAPENOR]

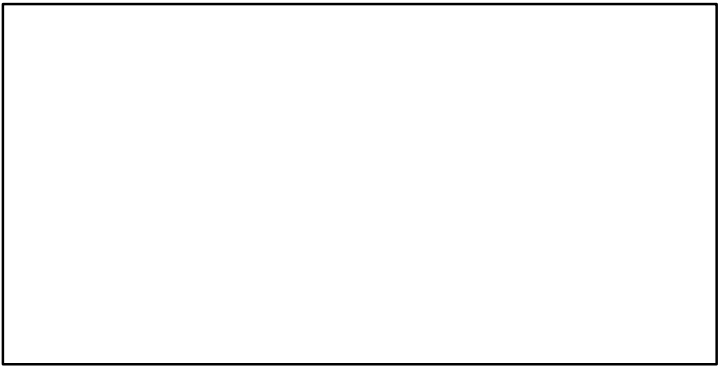
TC-MT, TL\*, RecC\* (1972-2021-ICESIMP2021-2)



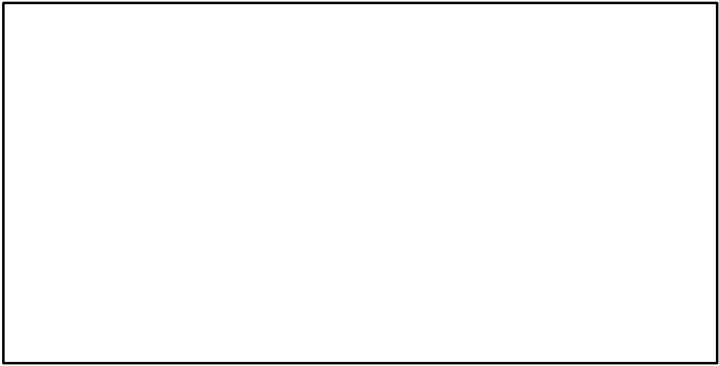
TAC\*, Cpair\*, Cadv\*



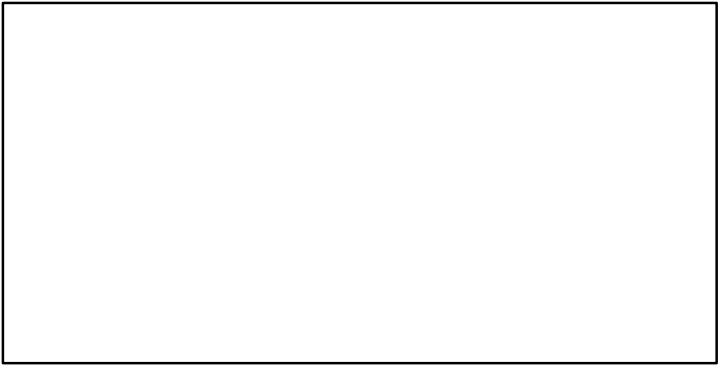
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

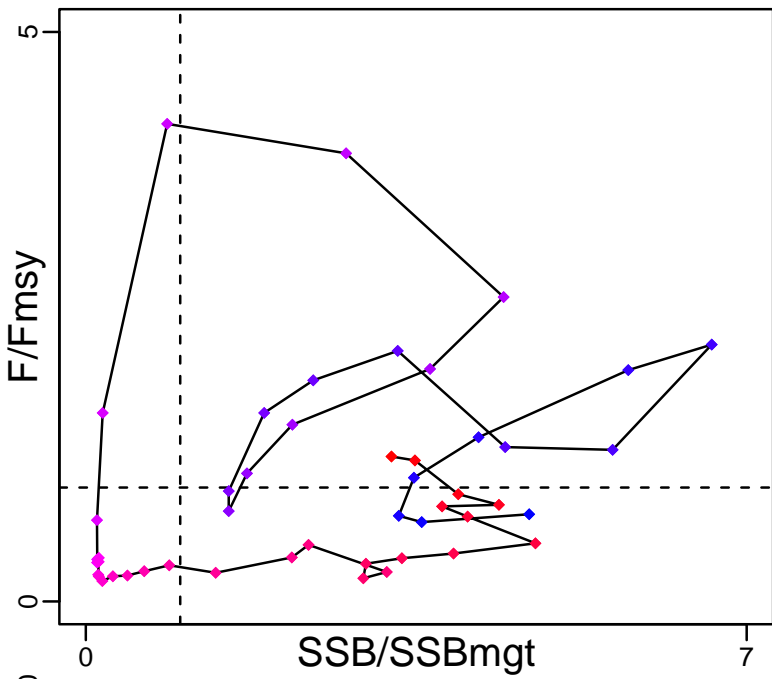
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-COD1F-XIV-1973-2021-ICESIMP2021-2
<b>Area</b>	NAFO 1F and ICES 14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.29
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	18,100
<b>Fmgt</b>	Fmgt-1/yr	2021	0.29
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	11,700
<b>Flim</b>	Flim-1/yr	2021	1.98
<b>ERlim</b>	-	-	-

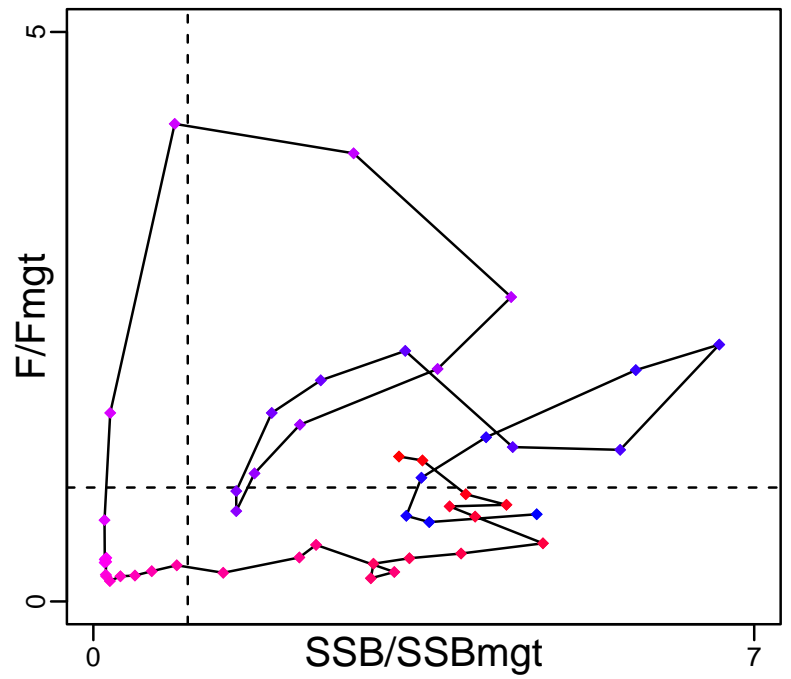
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	62,429	-	-
<b>SSB</b>	SSB-MT	2021	65,800	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	6,930,000	-	1
<b>F</b>	F-1/yr	2021	0.369	-	-
<b>ER</b>	ER-calc-ratio	2019	0.241	-	-
<b>TC</b>	TC-MT	2021	15,900		
<b>TL</b>	TL-MT	2020	18,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	1.272		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	3.635		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	1.272		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

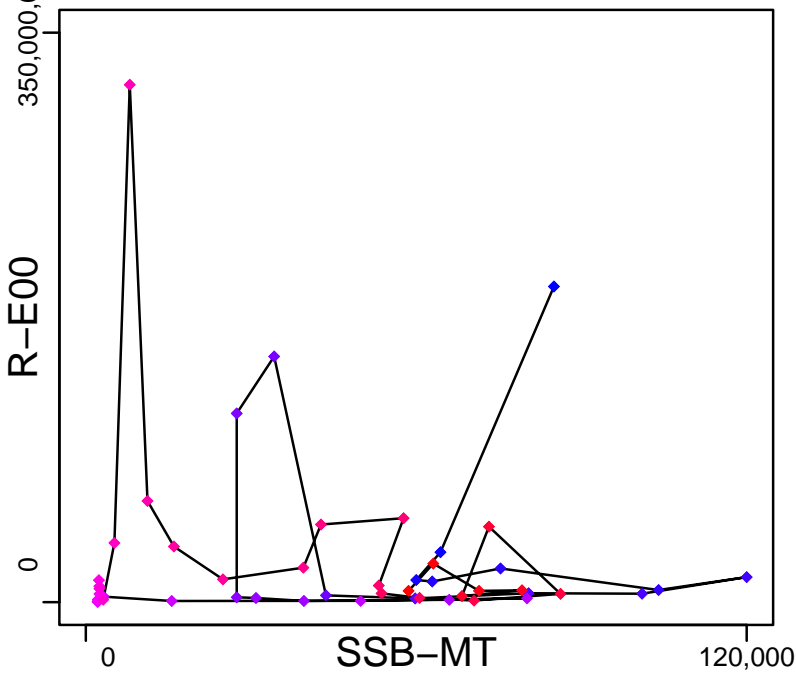
Kobe MSYpref (1973–2021–ICESIMP2021–2)



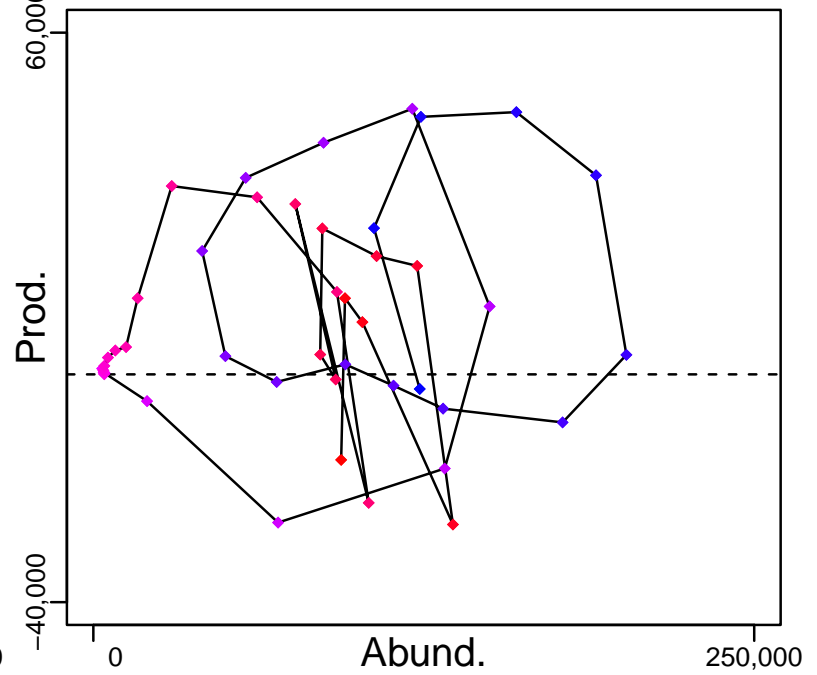
Kobe MGTpref (1973–2021–ICESIMP2021–2)



Spawner Recruit (1973–2021–ICESIMP2021–2)



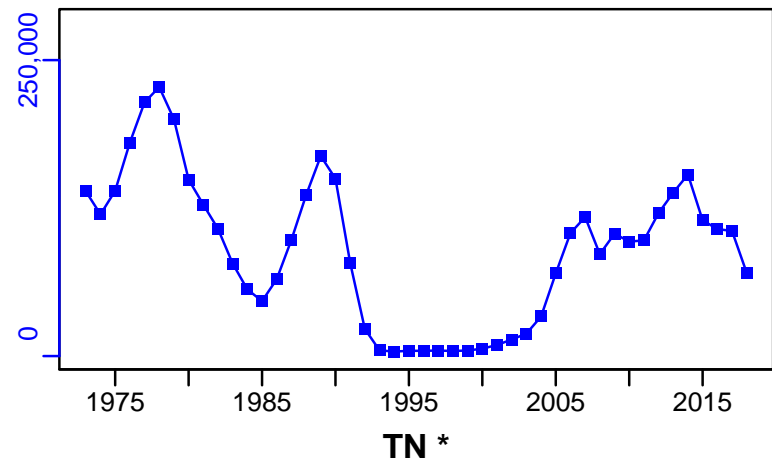
Production (1972–2019–ICESIMP2021)



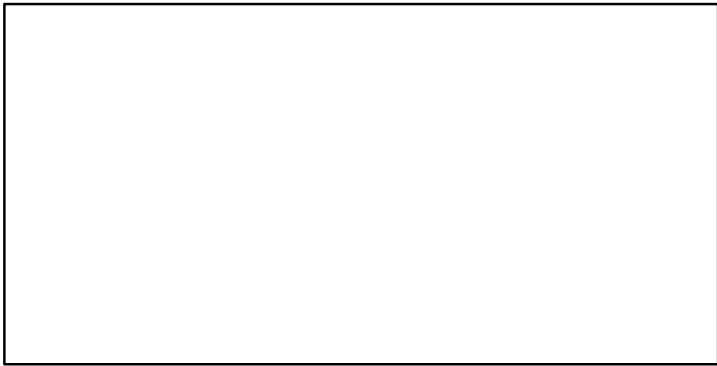
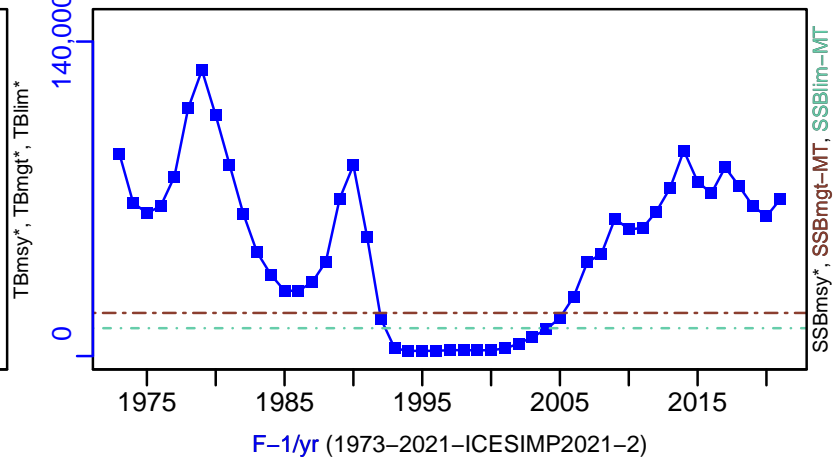
◆ Start Year ◆ End Year \* No Data

# Atlantic cod NAFO 1F and ICES 14 [COD1F-XIV]

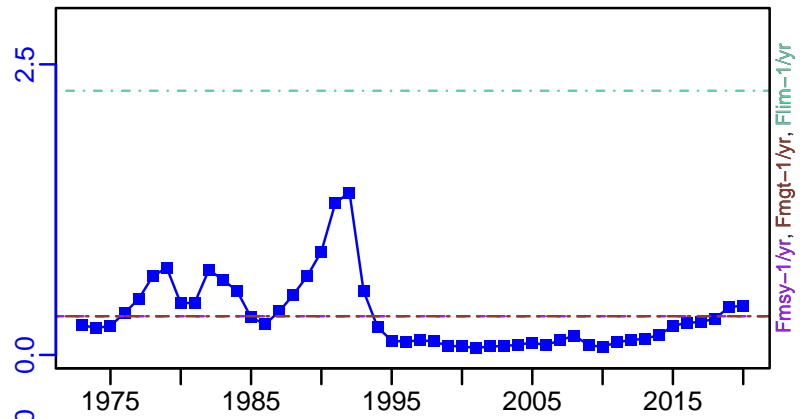
TB-MT (1972-2019-ICESIMP2021)



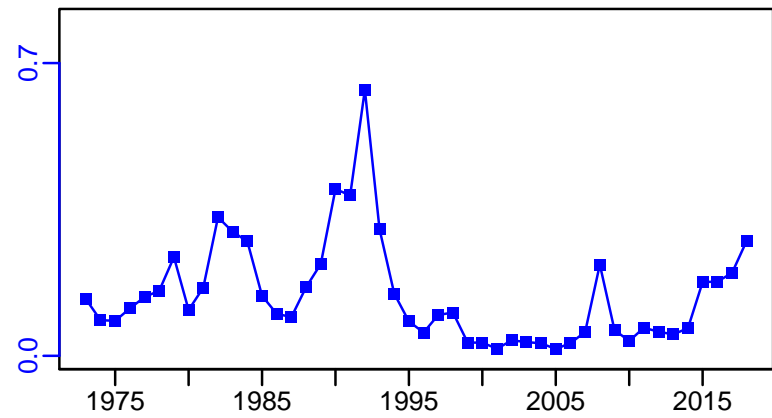
SSB-MT (1973-2021-ICESIMP2021-2)



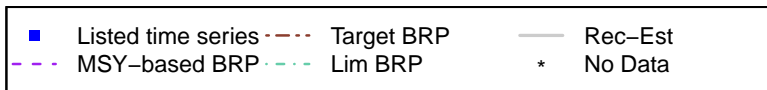
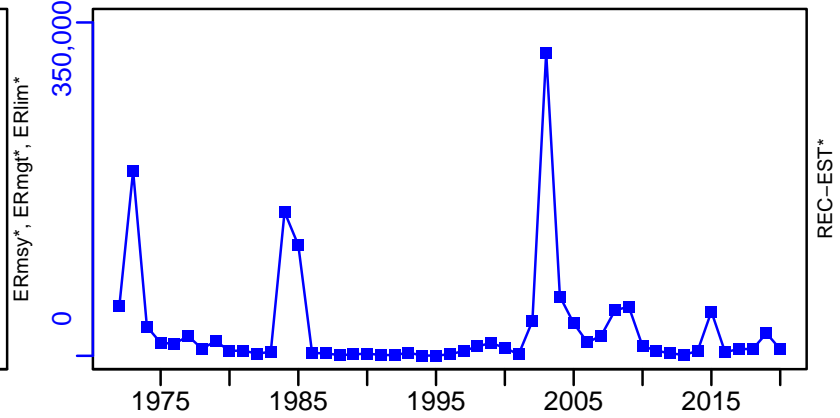
F-1/yr (1973-2021-ICESIMP2021-2)



ER-calc-ratio (1972-2019-ICESIMP2021)



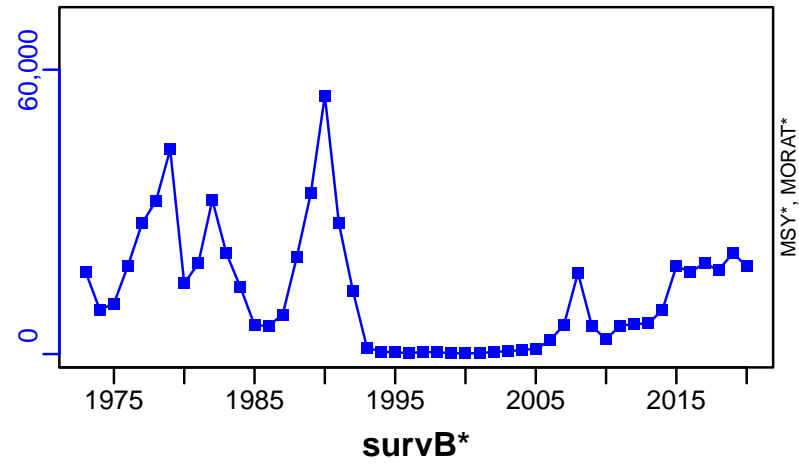
R-E00 (1973-2021-ICESIMP2021-2)





# Atlantic cod NAFO 1F and ICES 14 [COD1F–XIV]

TC–MT, TL\*, RecC\* (1973–2021–ICESIMP2021–2)



TAC\*, Cpair\*, Cadv\*



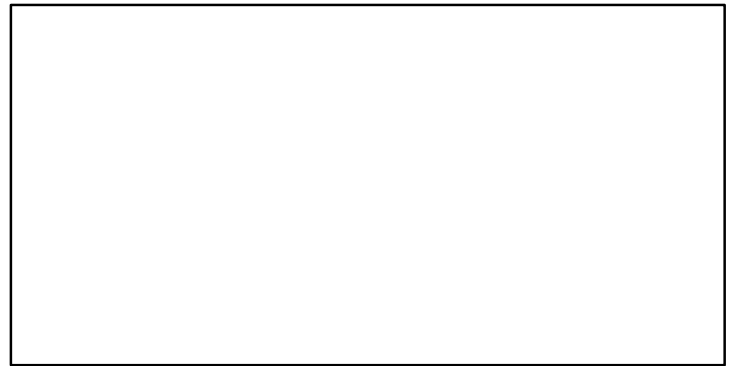
CPUE\*



EFFORT\*



CdivMSY\*



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

## Atlantic cod Faroe Bank [CODFABNK]

Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODFABNK-1965-2018-ICESIMP2021
<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, 2018

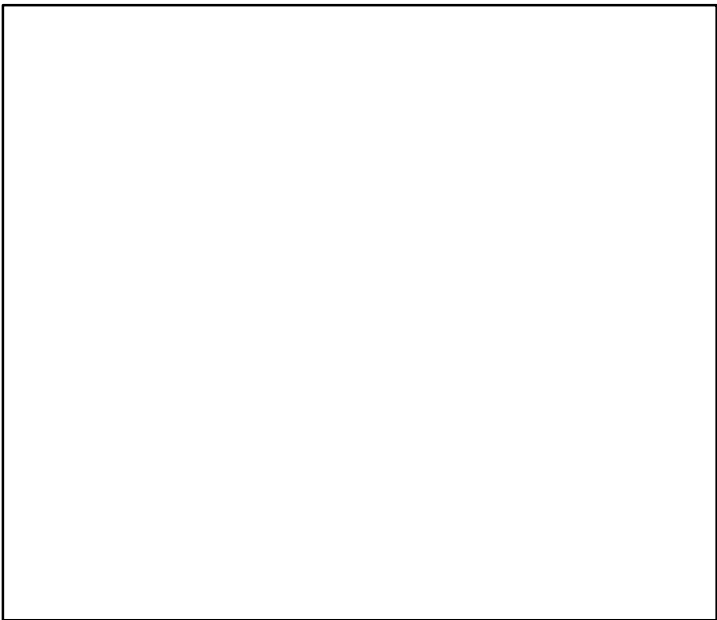
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	31		
TL	TL-MT	2018	31		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

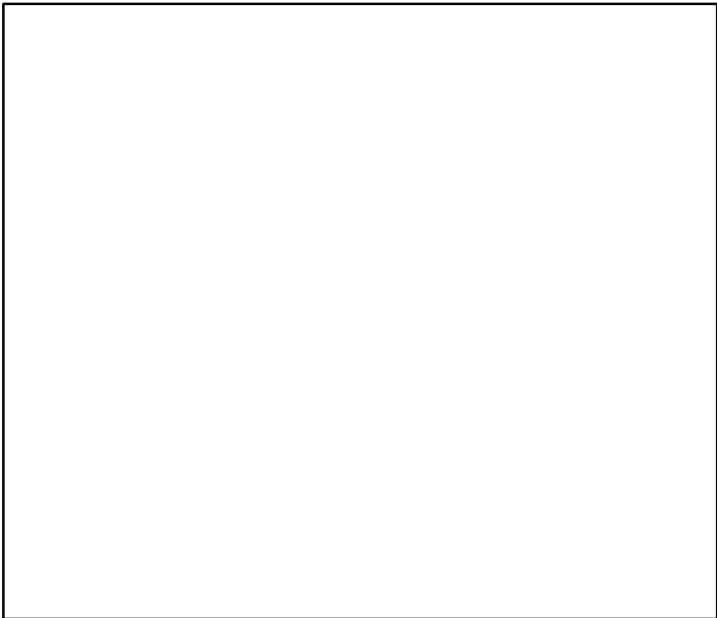
Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



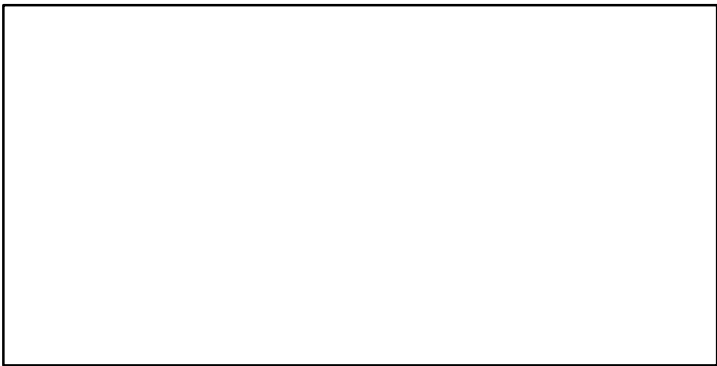
Production\*



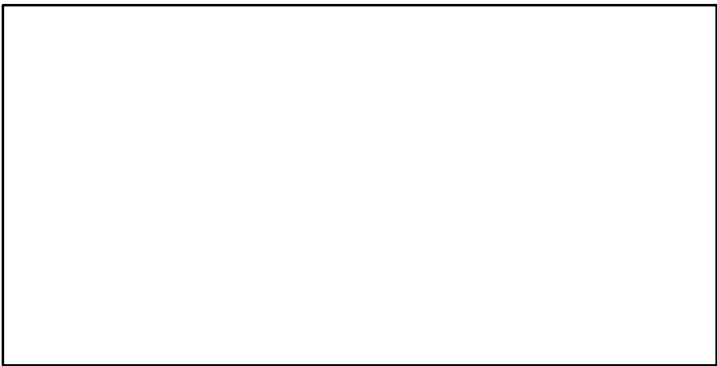
◆ Start Year   ◆ End Year   \* No Data

Atlantic cod Faroe Bank [CODFABNK]

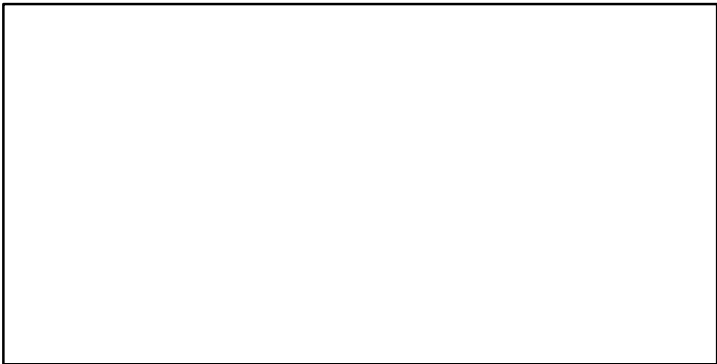
TB\*



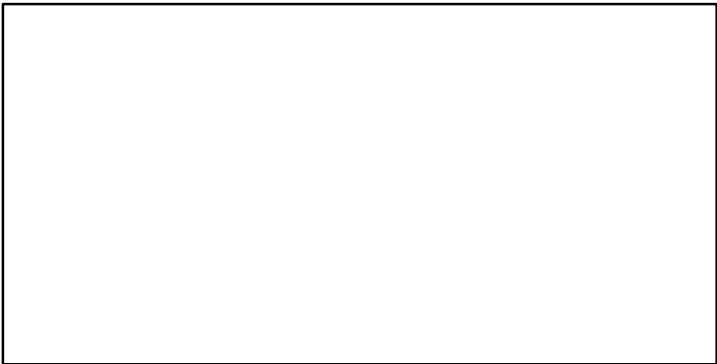
SSB\*



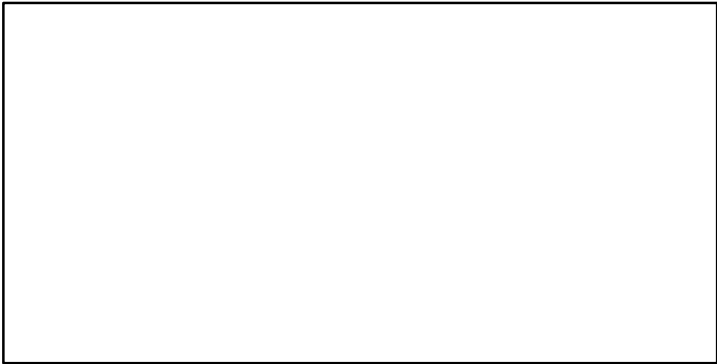
TN \*



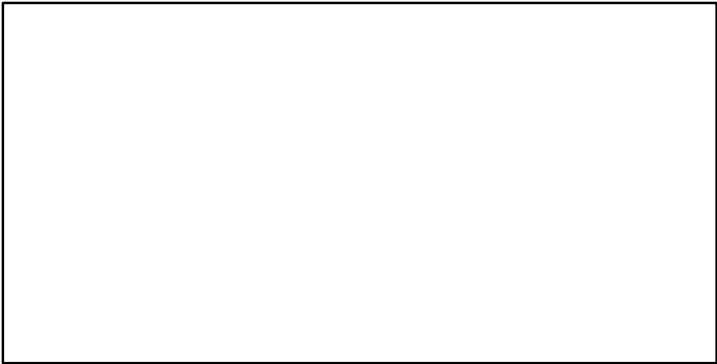
F\*



ER\*



Recruits\*



■ Listed time series

- - - MSY-based BRP

- - - Target BRP

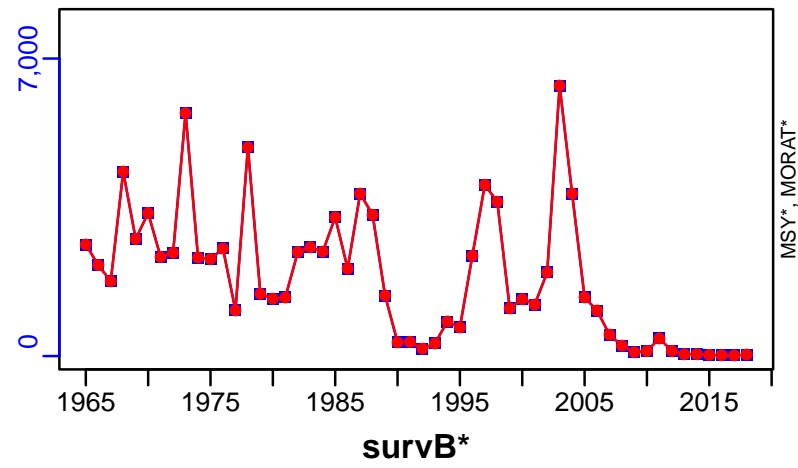
- · - · - Lim BRP

— Rec-Est

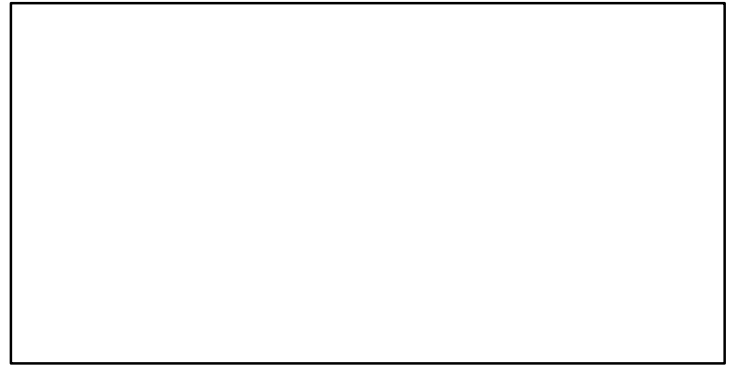
\* No Data

# Atlantic cod Faroe Bank [CODFABNK]

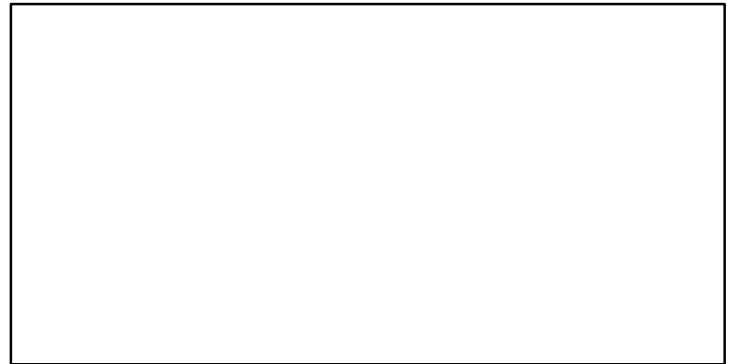
TC-MT, TL-MT, RecC\* (1965–2018–ICESIMP2021)



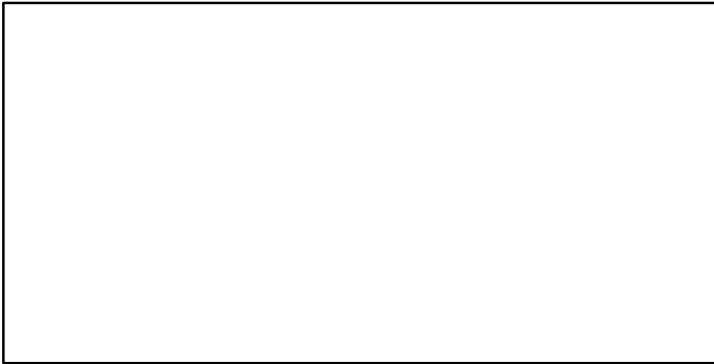
TAC\*, Cpair\*, Cadv\*



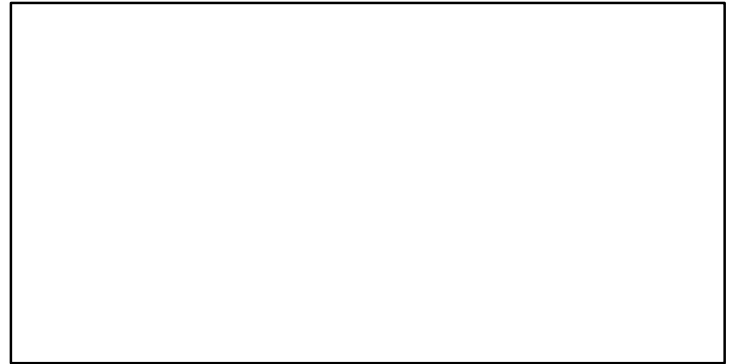
CPUE\*



EFFORT\*



CdivMSY\*



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

## Atlantic cod Faroe Plateau [CODFAPL]

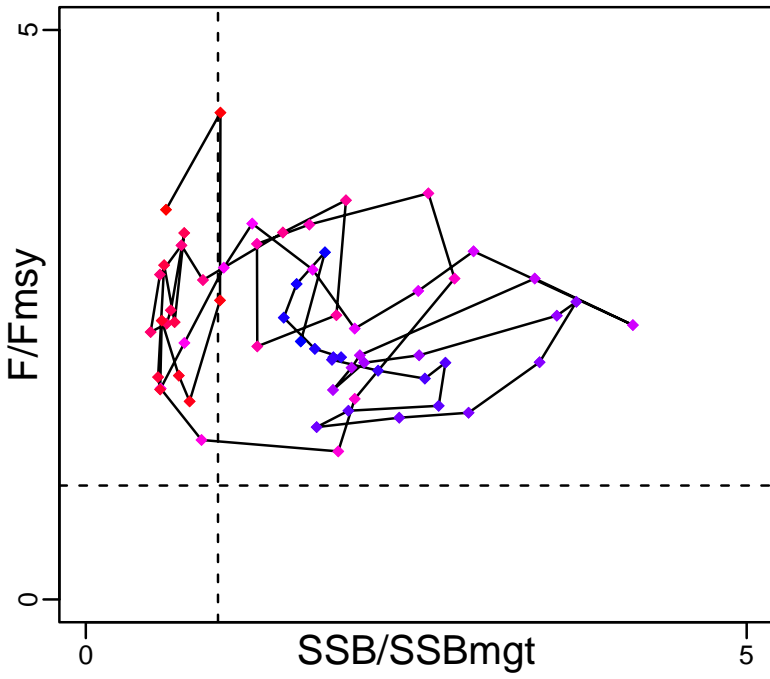
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODFAPL-1958-2021-ICESIMP2022
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2017, 2018, 2019, 2021, 2012, 2013, 2014, 2020

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.23
<b>ERmsy</b>	ERmsy-ratio	2019	0.23
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	29,226
<b>Fmgt</b>	Fmgt-1/yr	2021	0.23
<b>ERmgt</b>	ERmgt-ratio	2019	0.23
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	21,000
<b>Flim</b>	Flim-1/yr	2021	0.9
<b>ERlim</b>	-	-	-

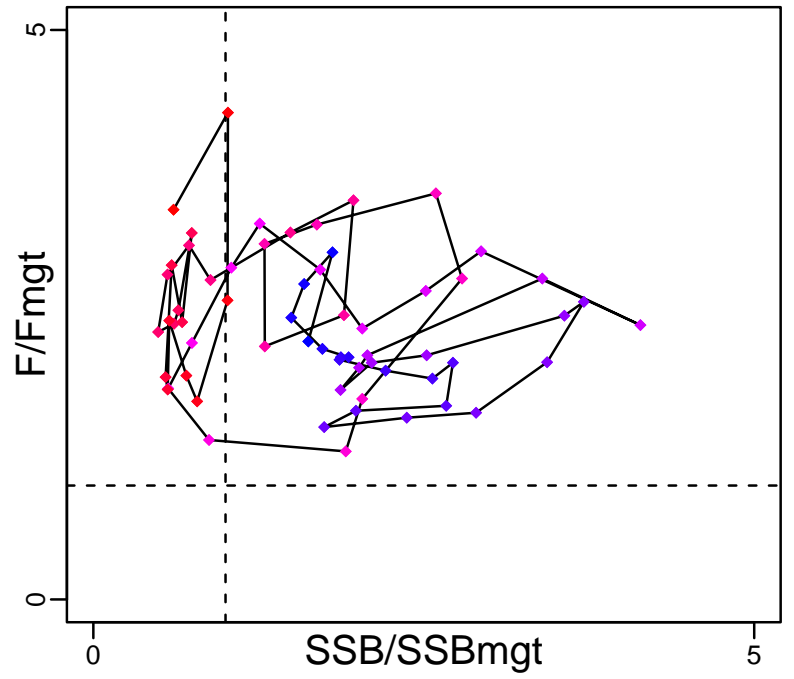
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2021	19,466	-	-
<b>SSB</b>	SSB-MT	2021	15,240	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	6,562,000	-	1
<b>F</b>	F-1/yr	2021	0.787	-	3 to 7
<b>ER</b>	ER-calc-ratio	2021	0.411	-	-
<b>TC</b>	TC-MT	2021	10,431		
<b>TL</b>	TL-MT	2021	10,431		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	3.422		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2019	1.857		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	0.521		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	3.422		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Faroe Plateau [CODFAPL]

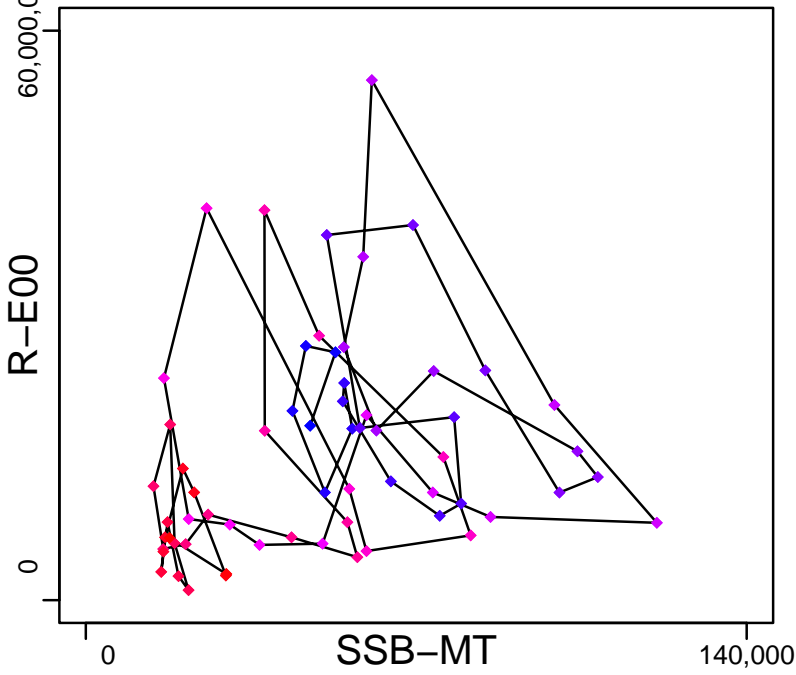
Kobe MSYpref (1958–2021–ICESIMP2022)



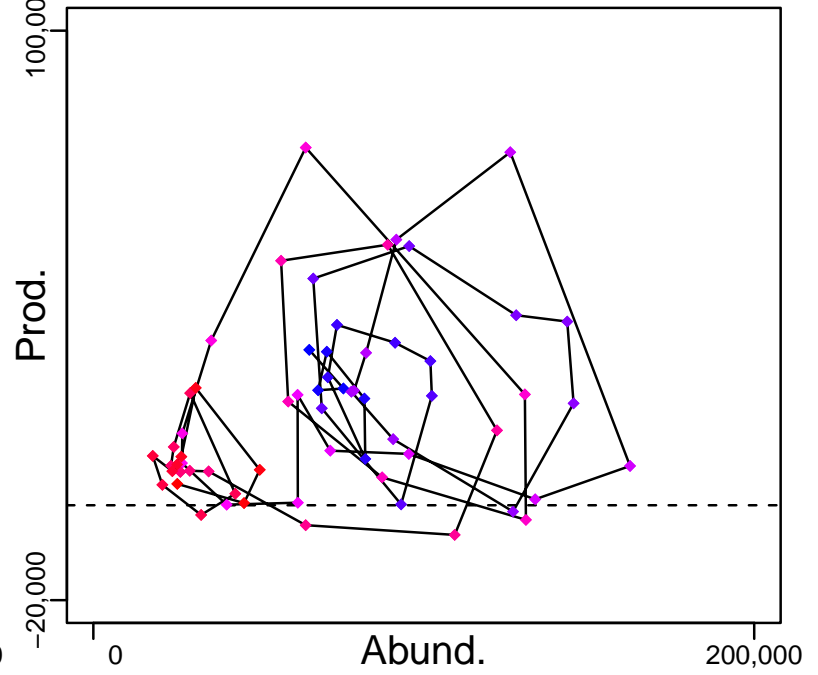
Kobe MGTpref (1958–2021–ICESIMP2022)



Spawner Recruit (1958–2021–ICESIMP2022)



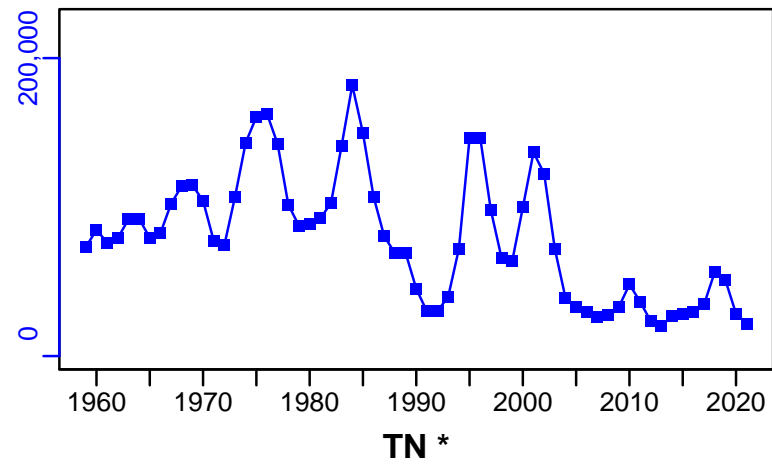
Production (1958–2021–ICESIMP2022)



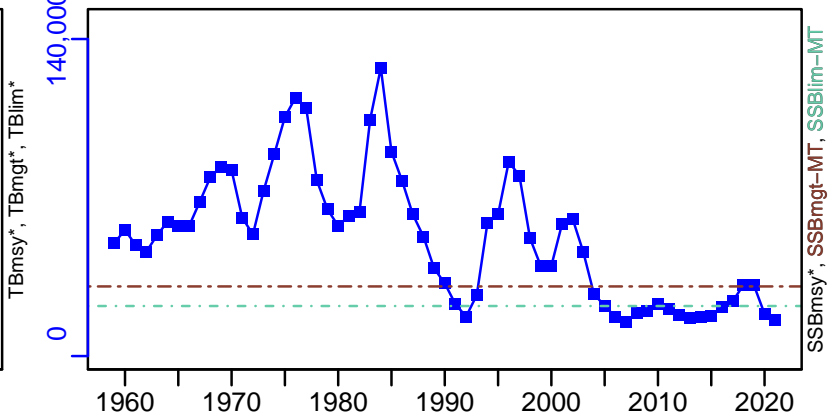
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Faroe Plateau [CODFAPL]

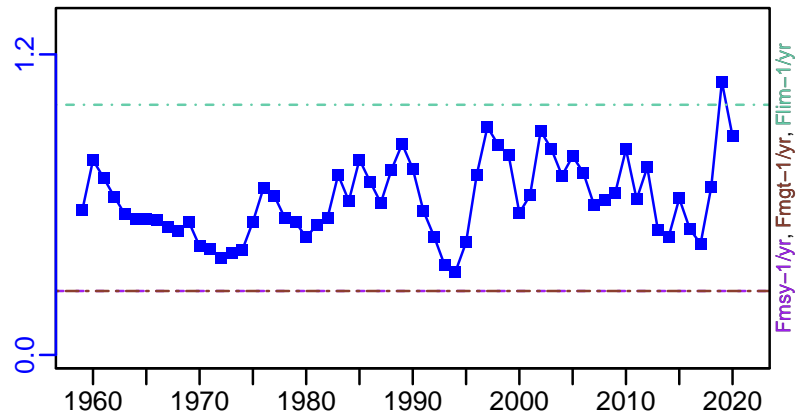
TB-MT (1958–2021–ICESIMP2022)



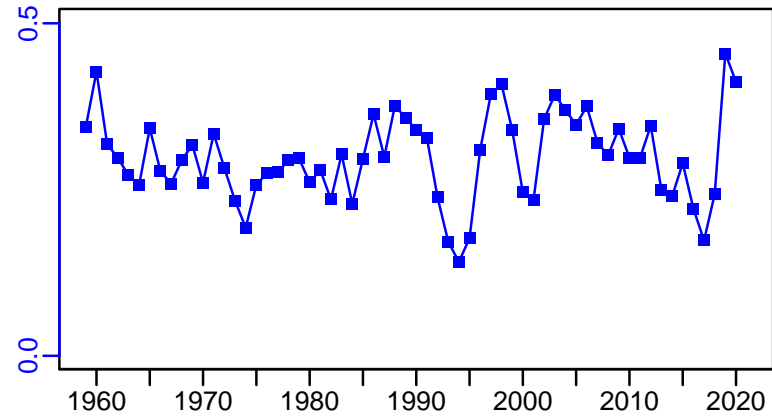
SSB-MT (1958–2021–ICESIMP2022)



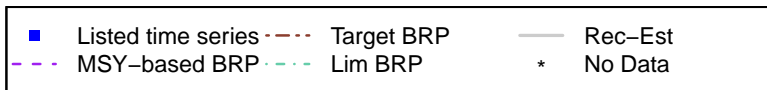
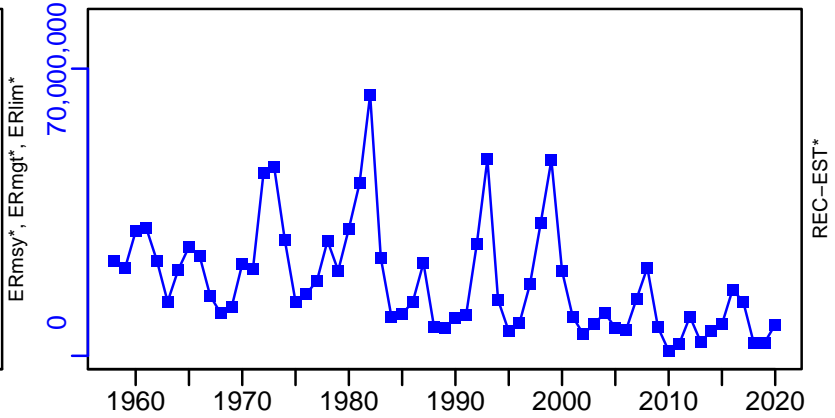
F-1/yr (1958–2021–ICESIMP2022)



ER-calc-ratio (1958–2021–ICESIMP2022)



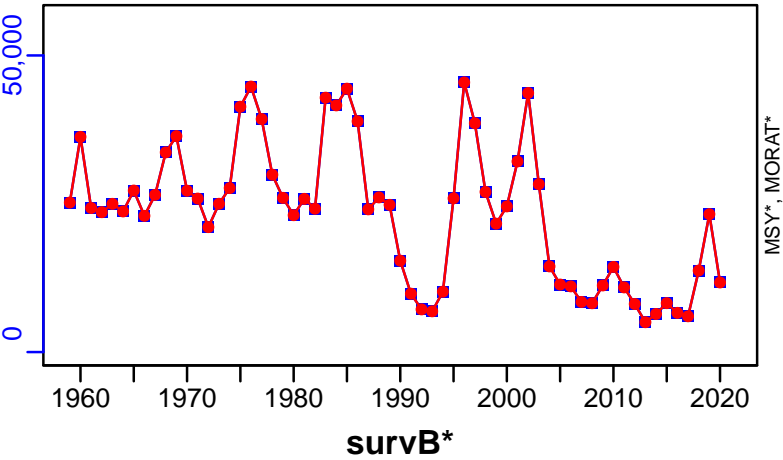
R-E00 (1958–2021–ICESIMP2022)



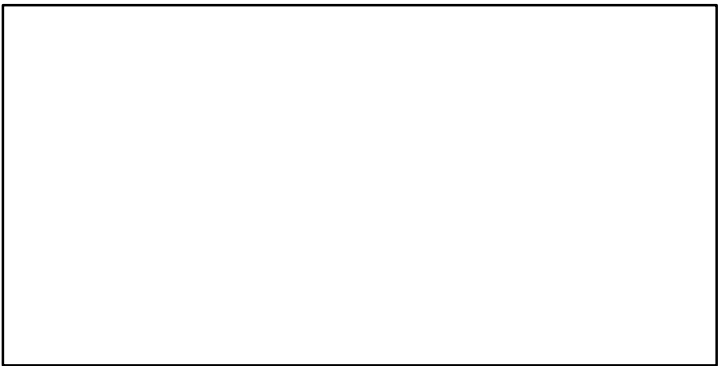


Atlantic cod Faroe Plateau [CODFAPL]

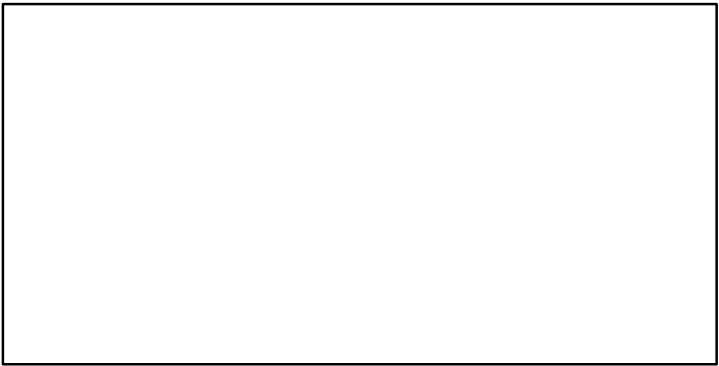
TC-MT, TL-MT, RecC\* (1958-2021-ICESIMP2022)



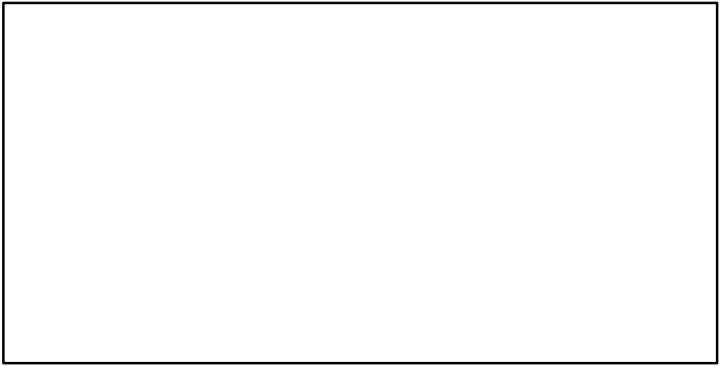
TAC\*, Cpair\*, Cadv\*



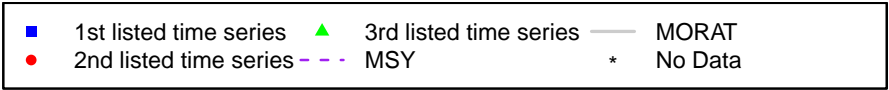
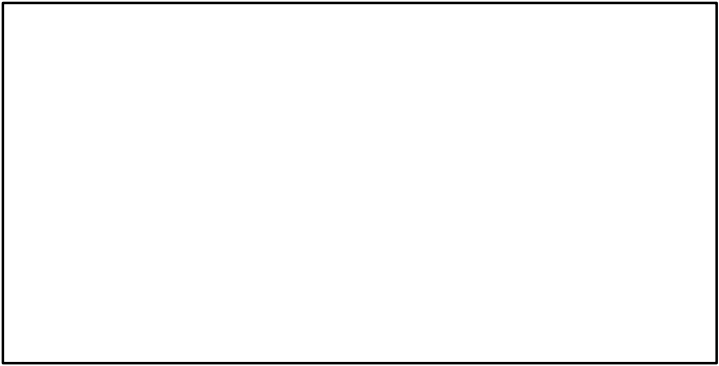
CPUE\*



EFFORT\*



CdivMSY\*



## Atlantic cod Iceland Grounds [CODICE]

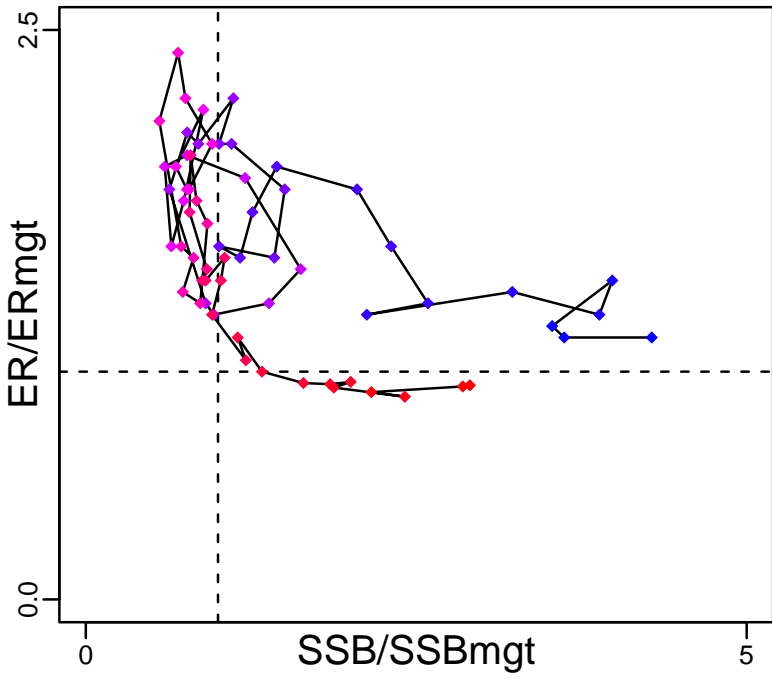
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODICE-1955-2023-ICESIMP2021-2
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2023

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2018	0.2
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2023	265,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2019	0.2
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2023	125,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	-	-	-

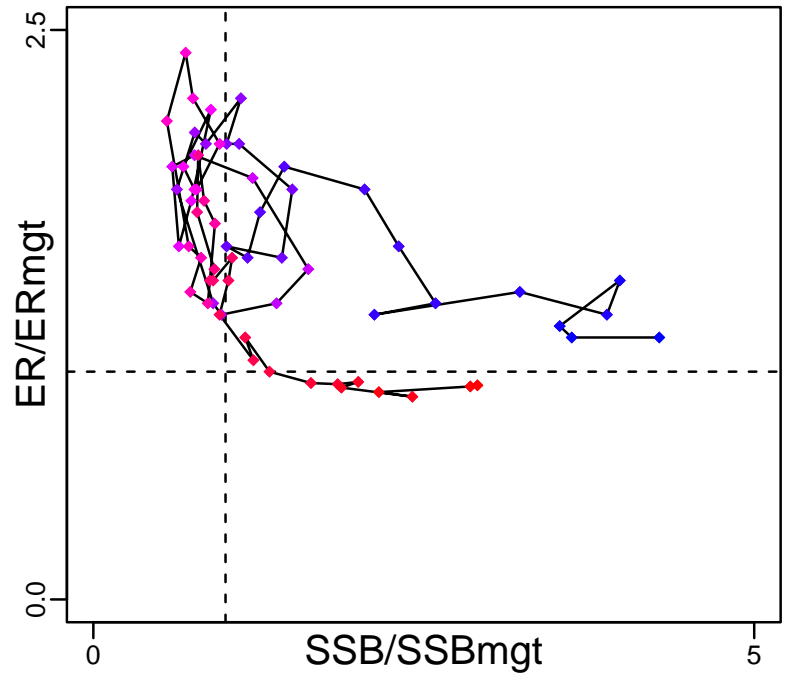
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	1,160,000	Both	-
<b>SSB</b>	SSB-MT	2023	361,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2023	163,000	-	3
<b>F</b>	F-1/yr	2019	0.27	-	5 to 10
<b>ER</b>	ER-ratio	2023	0.259	-	-
<b>TC</b>	TC-MT	2023	270,000		
<b>TL</b>	TL-MT	2023	270,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2018	0.91		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2023	1.362		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Iceland Grounds [CODICE]

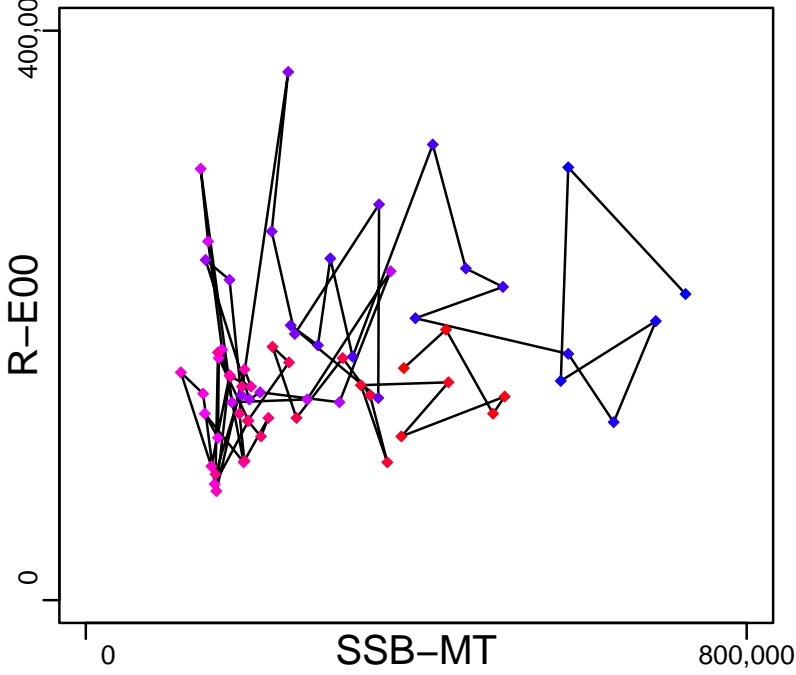
Kobe MSYpref (1952–2019–ICESIMP2021)



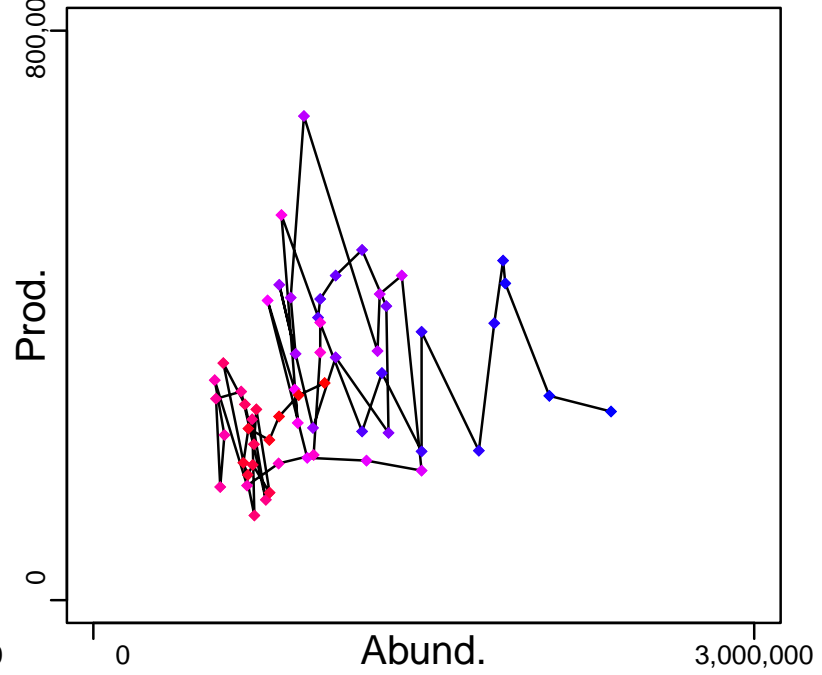
Kobe MGTpref (1952–2019–ICESIMP2021)



Spawner Recruit (1955–2023–ICESIMP2021–2)



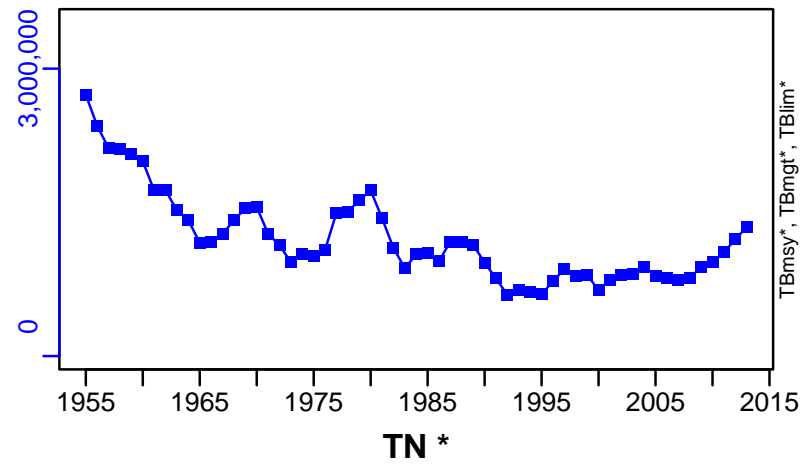
Production (1952–2014–ICESIMP2016)



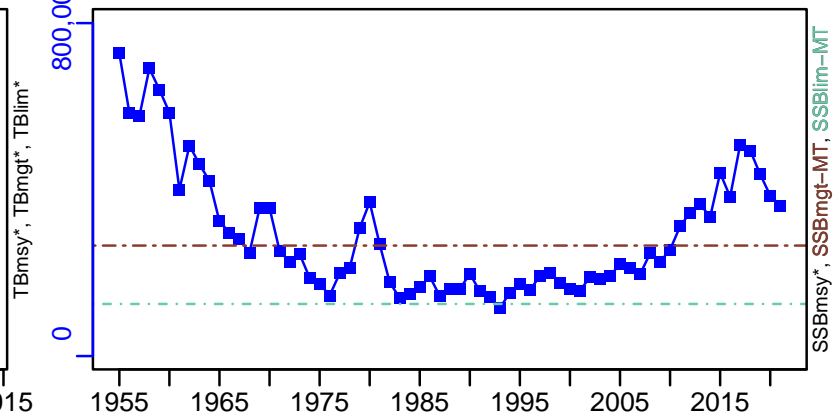
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Iceland Grounds [CODICE]

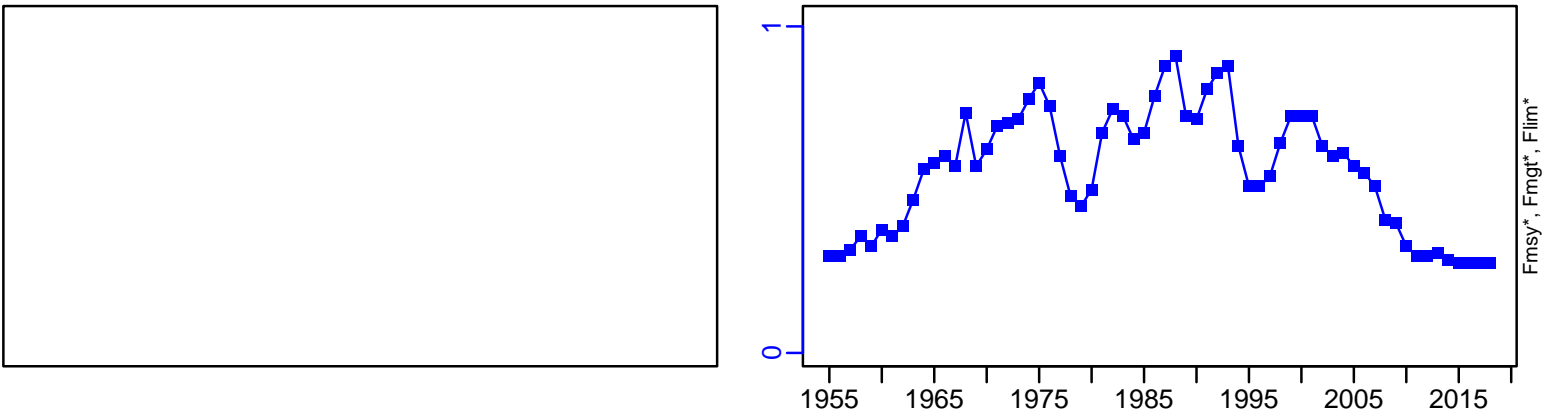
TB-MT (1952–2014–ICESIMP2016)



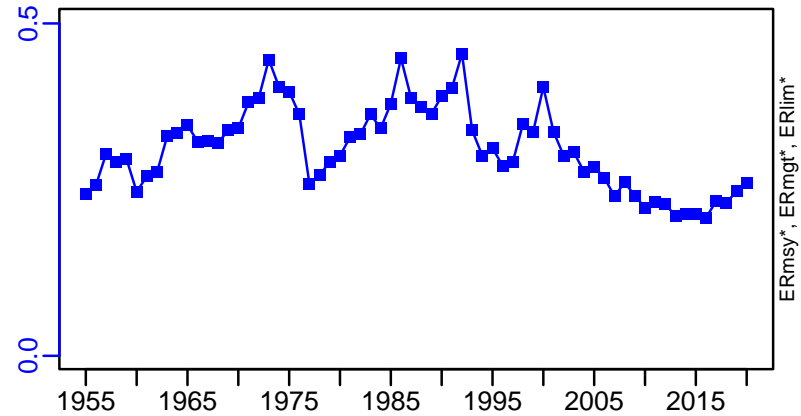
SSB-MT (1955–2023–ICESIMP2021–2)



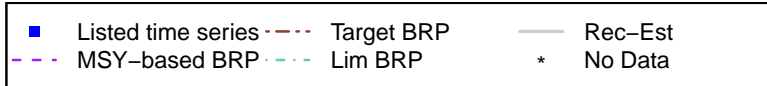
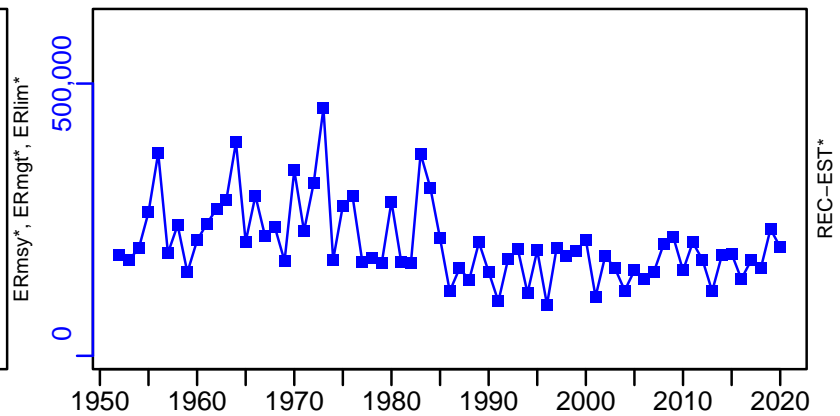
F-1/yr (1952–2019–ICESIMP2021)



ER-ratio (1955–2023–ICESIMP2021–2)



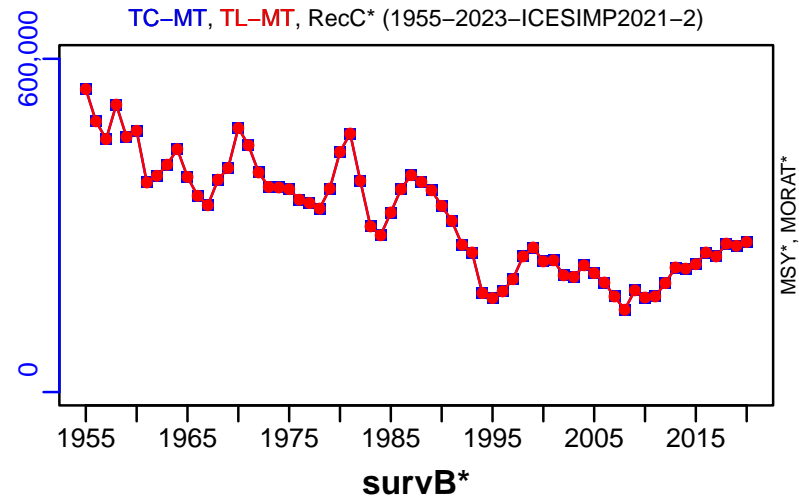
R-E00 (1955–2023–ICESIMP2021–2)



# Atlantic cod Iceland Grounds [CODICE]

TC-MT, TL-MT, RecC\* (1955–2023–ICESIMP2021–2)

TAC\*, Cpair\*, Cadv\*



MSY\*, MORAT\*

CPUE\*

EFFORT\*

CdivMSY\*

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

## Atlantic cod North-East Arctic [CODNEAR]

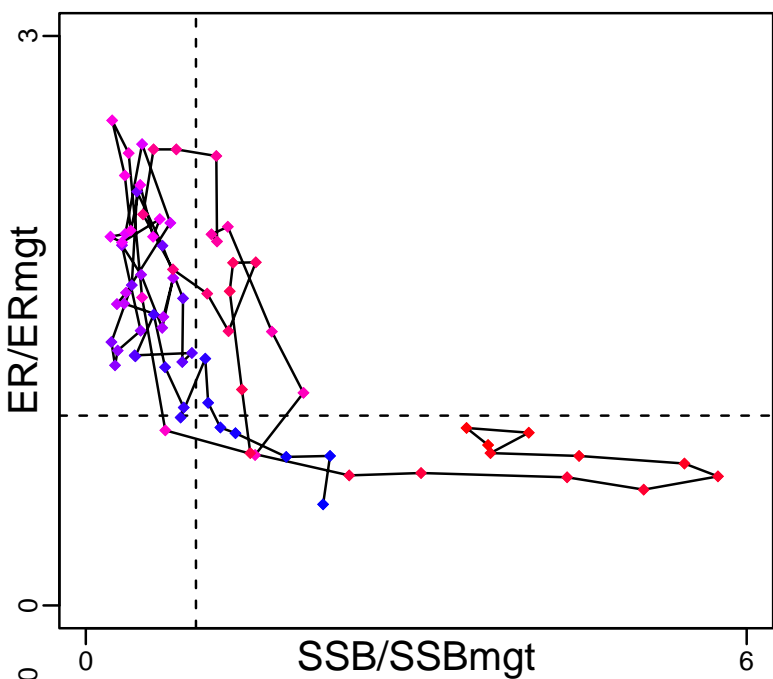
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEAR-1946-2020-ICESIMP2021-2
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011, 2020

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	2020	460,000
<b>Fmgt</b>	Fmgt-1/yr	2019	0.4
<b>ERmgt</b>	ERmgt-ratio	2020	0.4
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2020	220,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	ERlim-ratio	2020	0.74

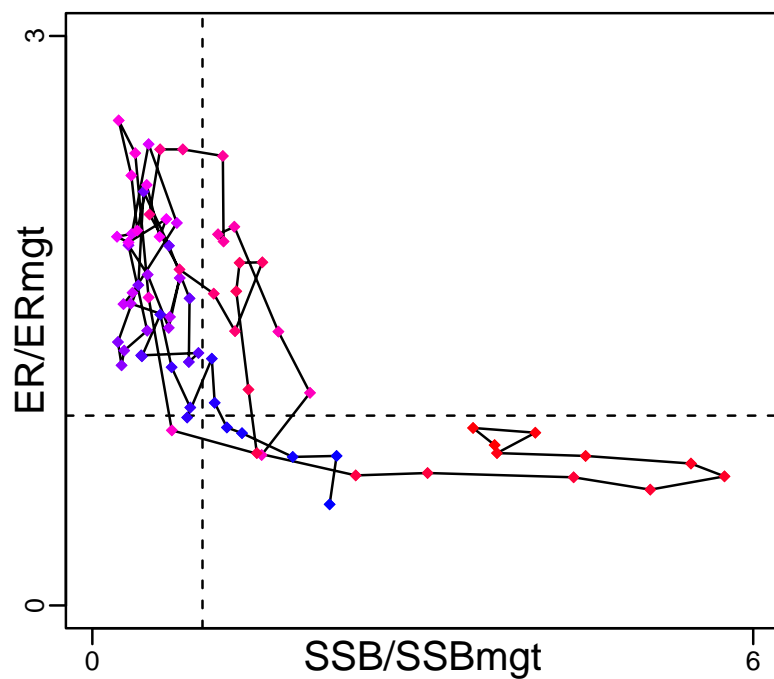
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	2,612,690	-	-
<b>SSB</b>	SSB-MT	2020	1,370,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2020	$5.83 \times 10^8$	-	3
<b>F</b>	F-1/yr	2019	0.422	-	5 to 10
<b>ER</b>	ER-ratio	2020	0.338	-	-
<b>TC</b>	TC-MT	2020	693,000		
<b>TL</b>	TL-MT	2020	693,000		
<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	2020	2.978		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.055		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod North-East Arctic [CODNEAR]

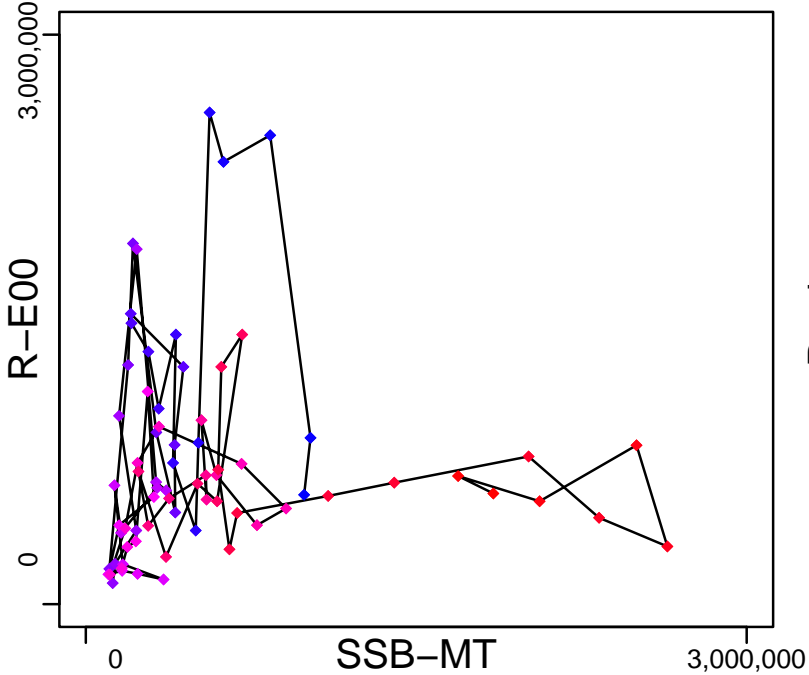
Kobe MSYpref (1946–2020–ICESIMP2021–2)



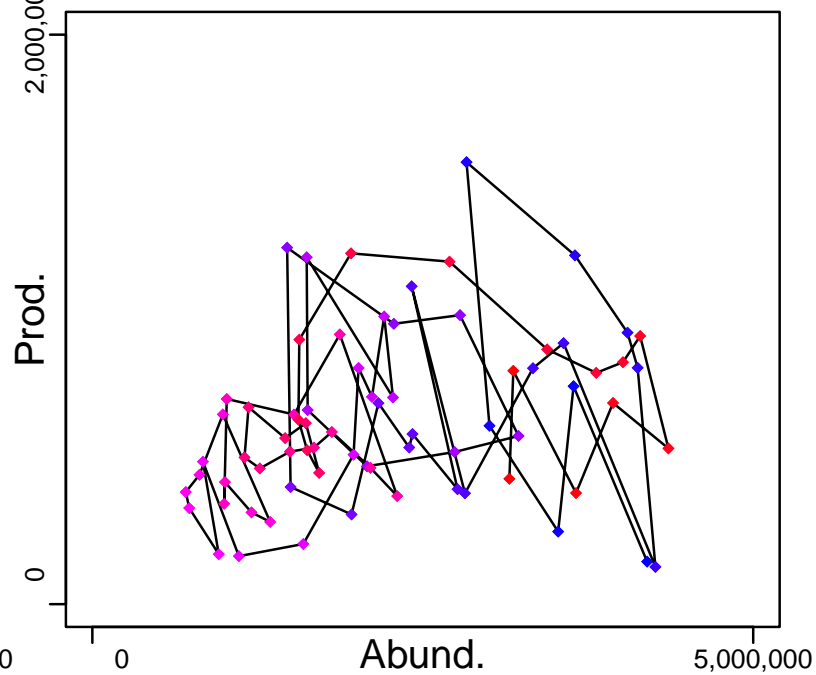
Kobe MGTpref (1946–2020–ICESIMP2021–2)



Spawner Recruit (1946–2020–ICESIMP2021–2)

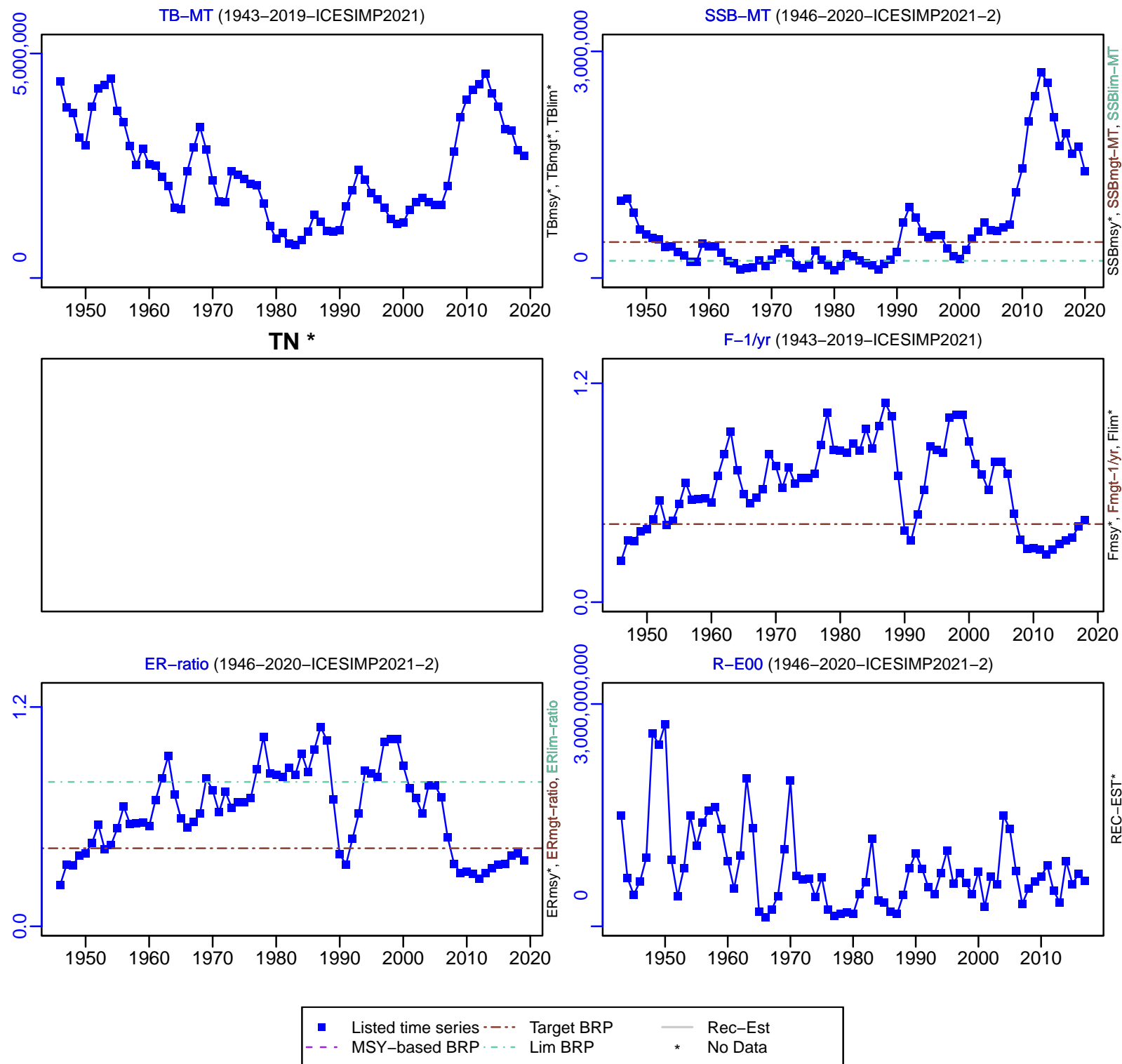


Production (1943–2019–ICESIMP2021)



◆ Start Year ◆ End Year \* No Data

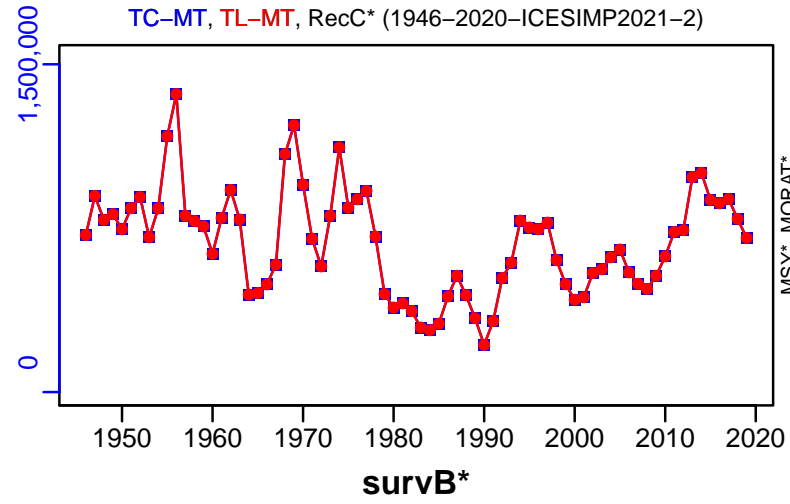
# Atlantic cod North-East Arctic [CODNEAR]



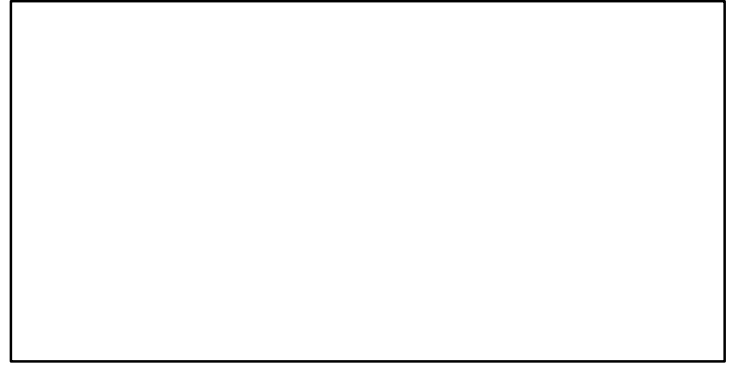


# Atlantic cod North-East Arctic [CODNEAR]

TC-MT, TL-MT, RecC\* (1946–2020–ICESIMP2021–2)



TAC\*, Cpair\*, Cadv\*



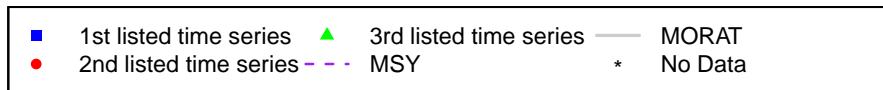
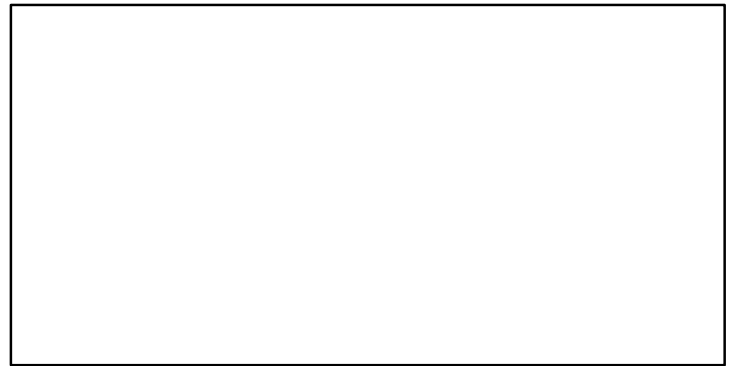
CPUE\*



EFFORT\*



CdivMSY\*



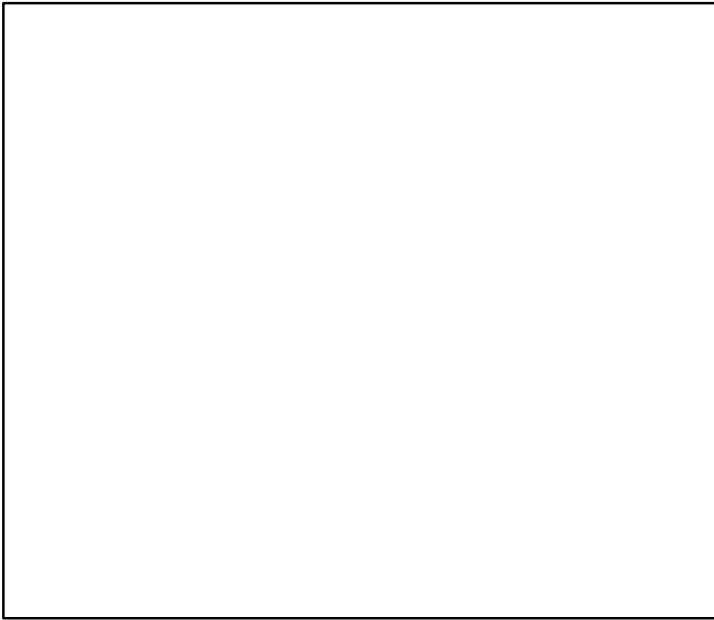
## Atlantic cod North-East Arctic (Norwegian coastal waters) [CODNEARNCW]

Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEARNCW-1984-2019-ICESIMP2021-2
<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, 2018, 2016, 2017, 2019

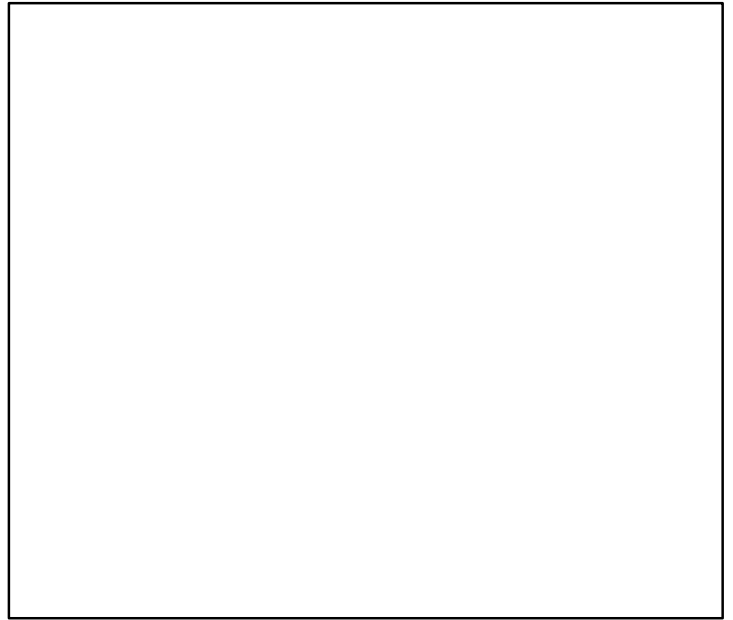
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2016	60,000
Fmgt	Fmgt-1/yr	2016	0.1
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2019	22,600,000	-	2
F	F-1/yr	2019	0.2	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	52,900		
TL	TL-MT	2019	40,100		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	F-1/yr/Fmgt-1/yr	2016	3.31		
ER/ERmgt	-	-	-		

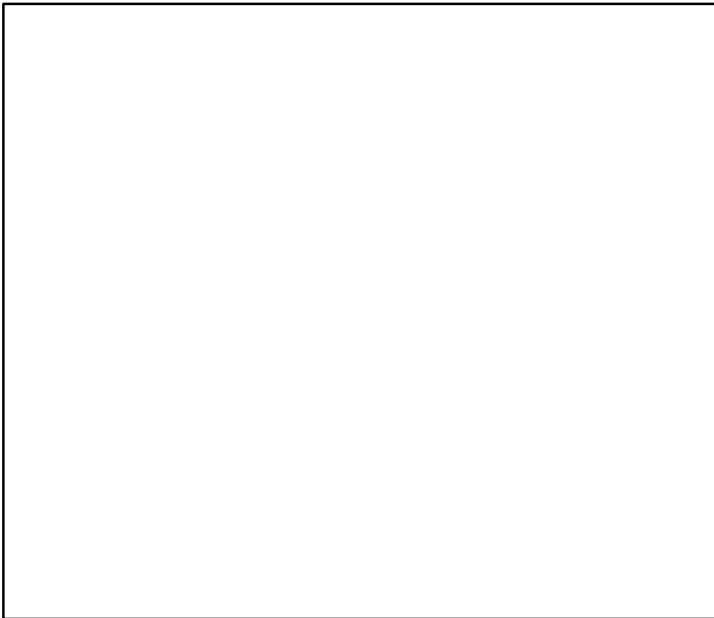
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

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

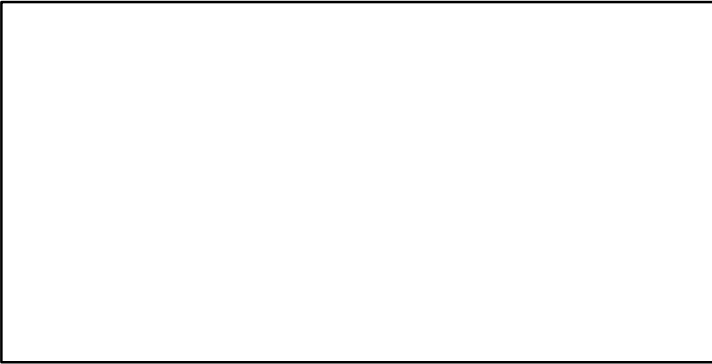
TB\*



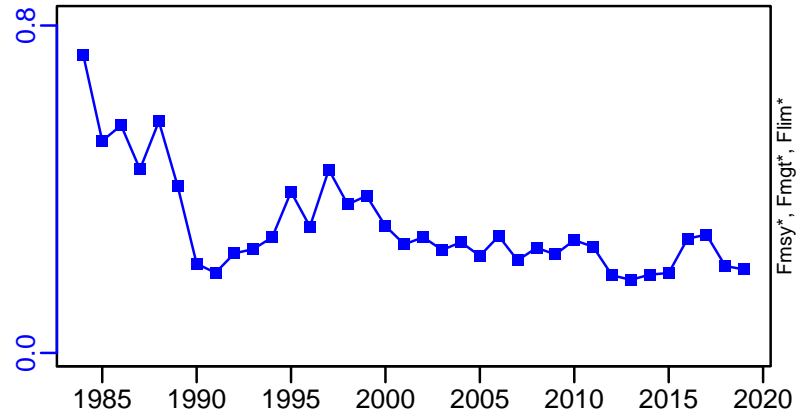
SSB\*



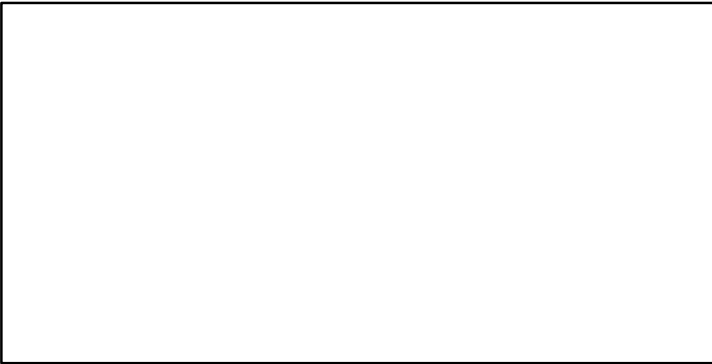
TN \*



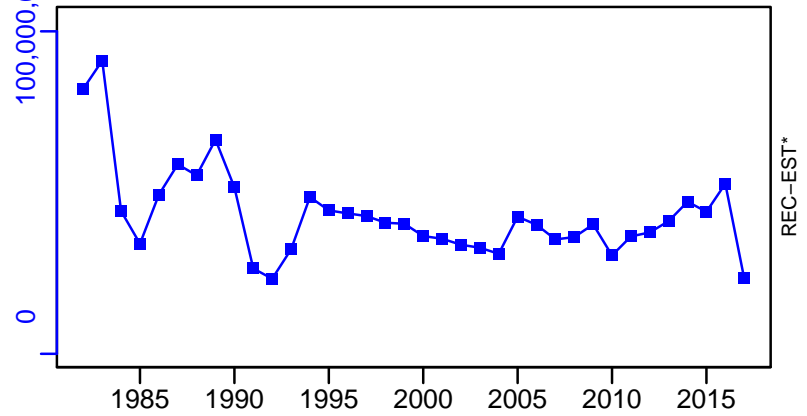
F-1/yr (1984-2019-ICESIMP2021-2)



ER\*

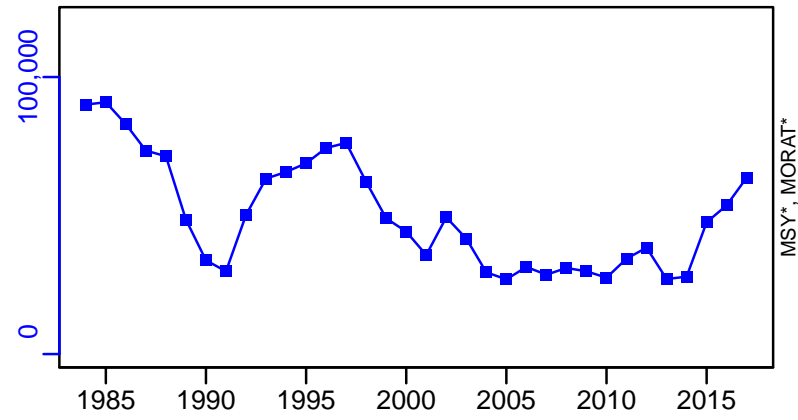


R-E00 (1984-2019-ICESIMP2021-2)



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

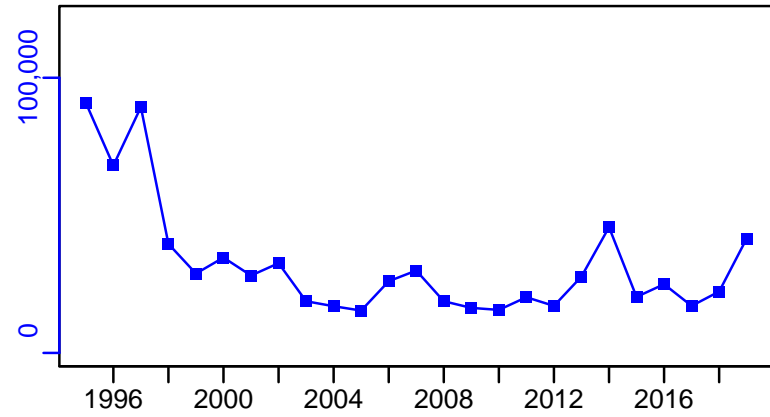
TC-MT, TL\*, RecC\* (1984–2017–ICESIMP2018)



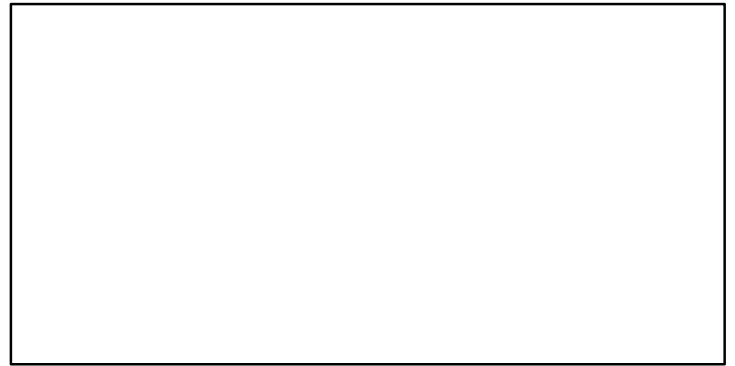
TAC\*, Cpair\*, Cadv\*



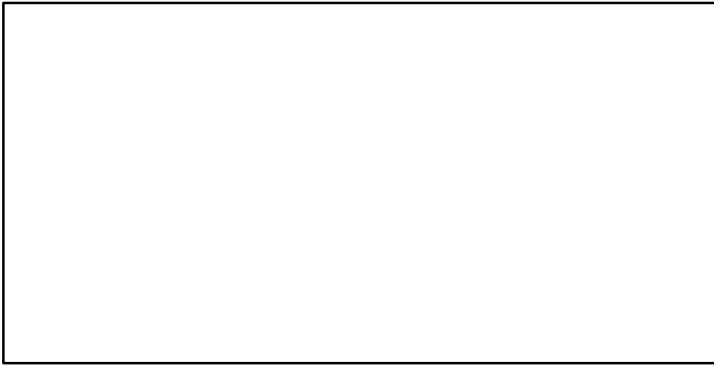
survB-MT (1984–2019–ICESIMP2021–2)



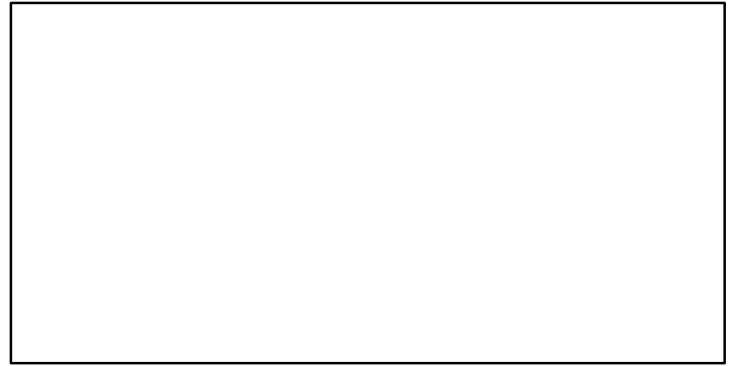
CPUE\*



EFFORT\*



CdivMSY\*



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

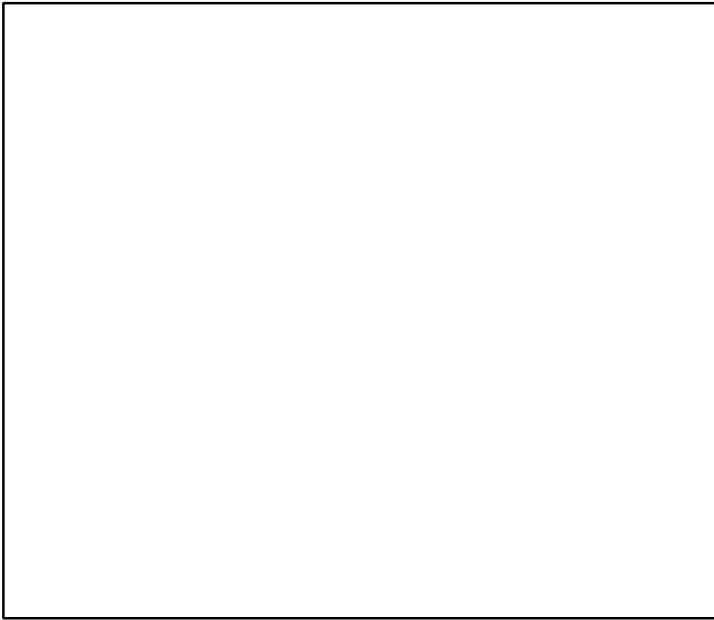
## Tusk North-East Arctic [CUSKI-II]

Metadata	
<b>Scientific Name</b>	Brosme brosme
<b>Current Assess ID</b>	WGDEEP-CUSKI-II-1988-2020-ICESIMP2021-2
<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, 2018, 2020

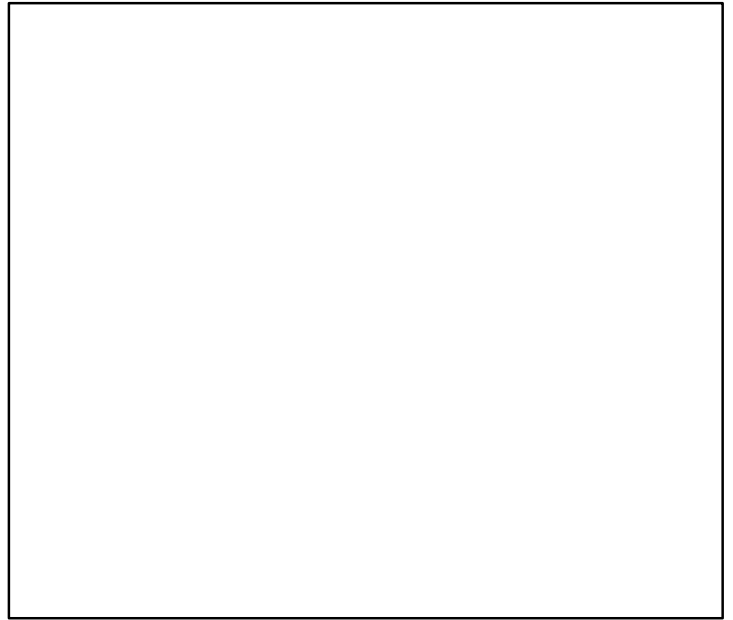
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	2020	9120		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

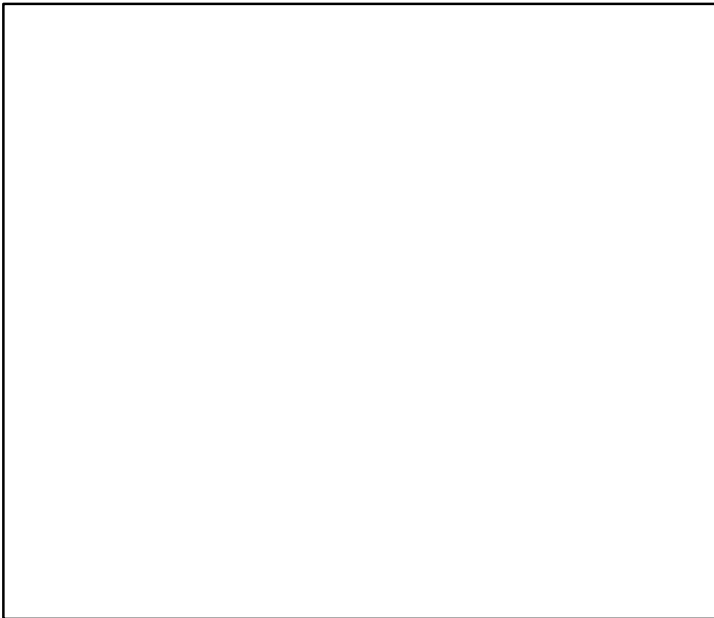
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



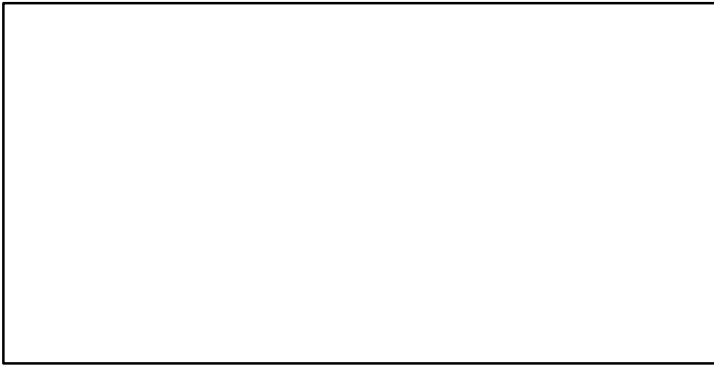
**Production\***



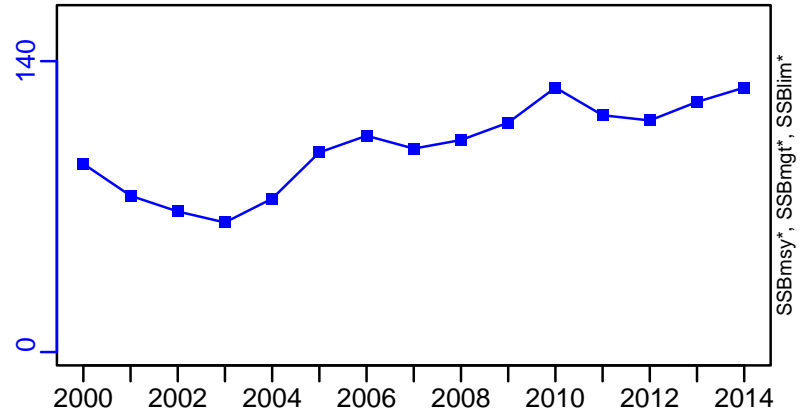
◆ Start Year   ◆ End Year   \* No Data

# Tusk North–East Arctic [CUSKI–II]

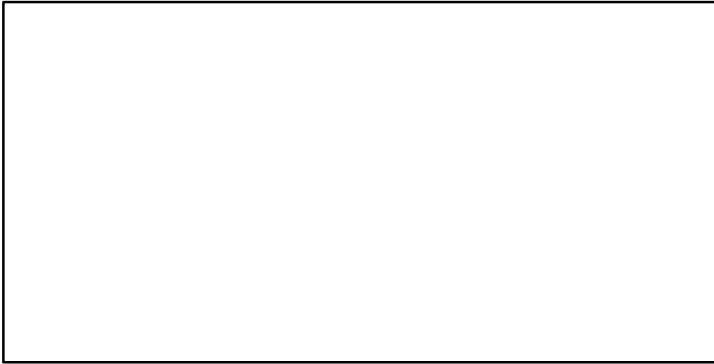
TB\*



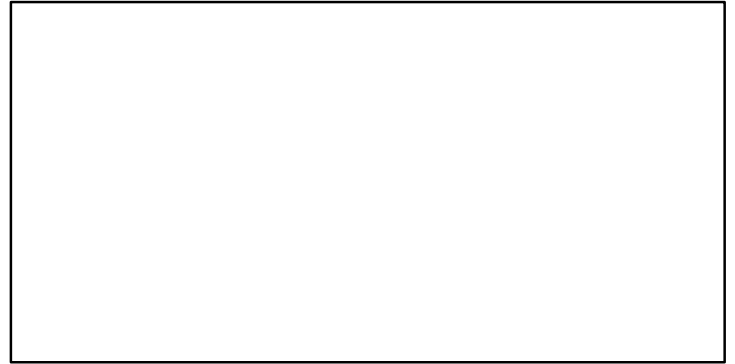
SSB–index (1988–2014–ICESIMP2018)



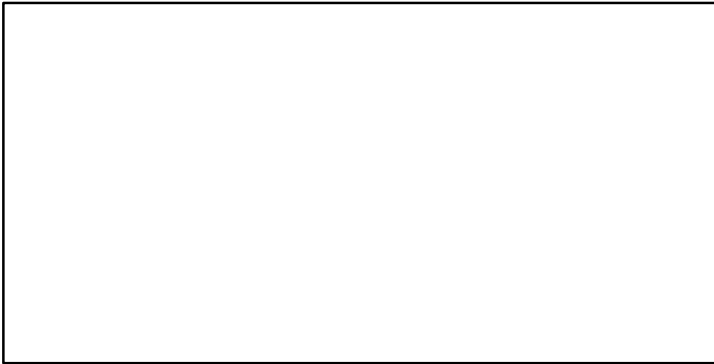
TN \*



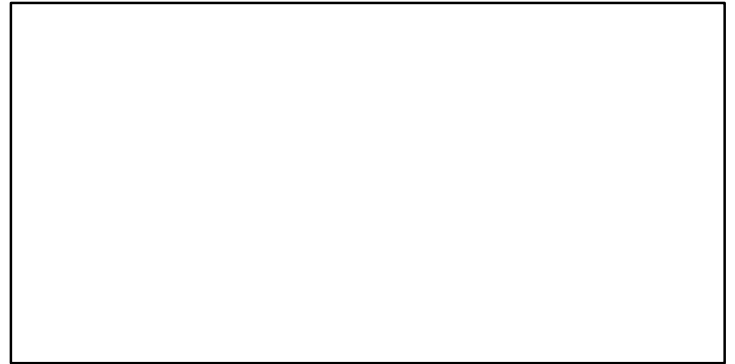
F\*



ER\*



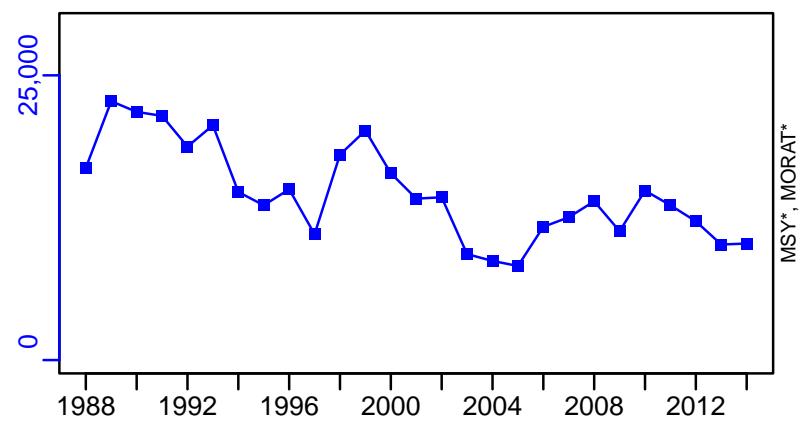
Recruits\*





# Tusk North-East Arctic [CUSKI-II]

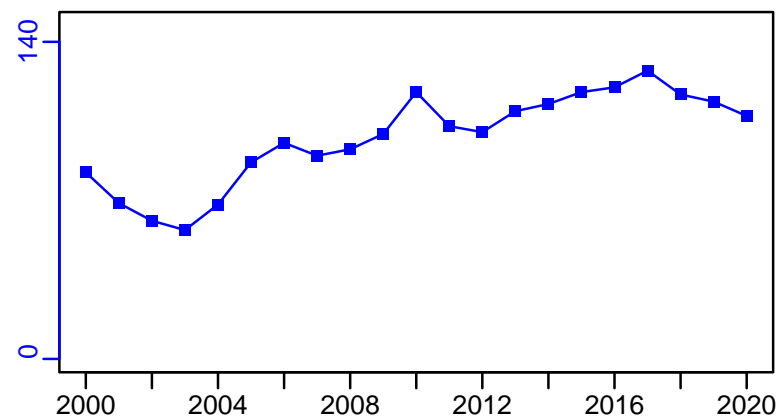
TC-MT, TL\*, RecC\* (1988–2014–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



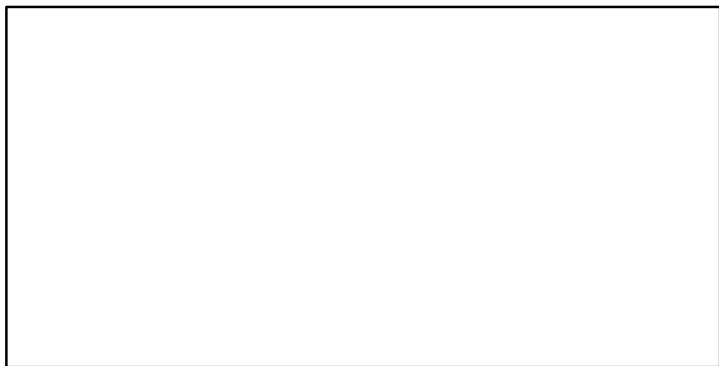
survB-index (1988–2020–ICESIMP2021–2)



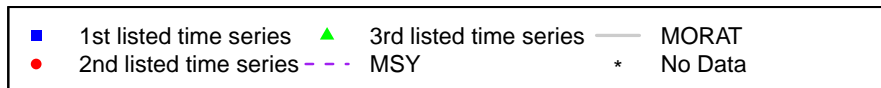
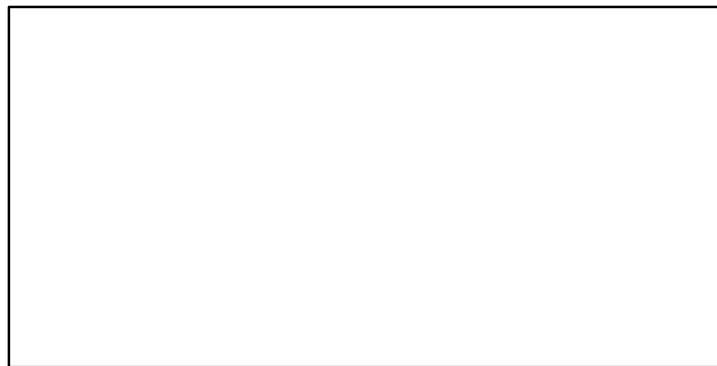
CPUE\*



EFFORT\*



CdivMSY\*

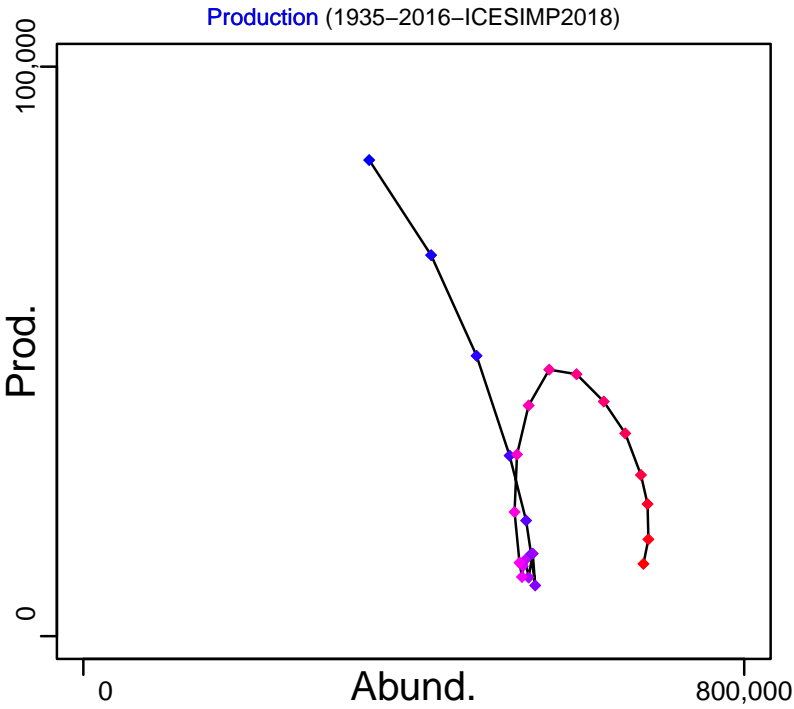
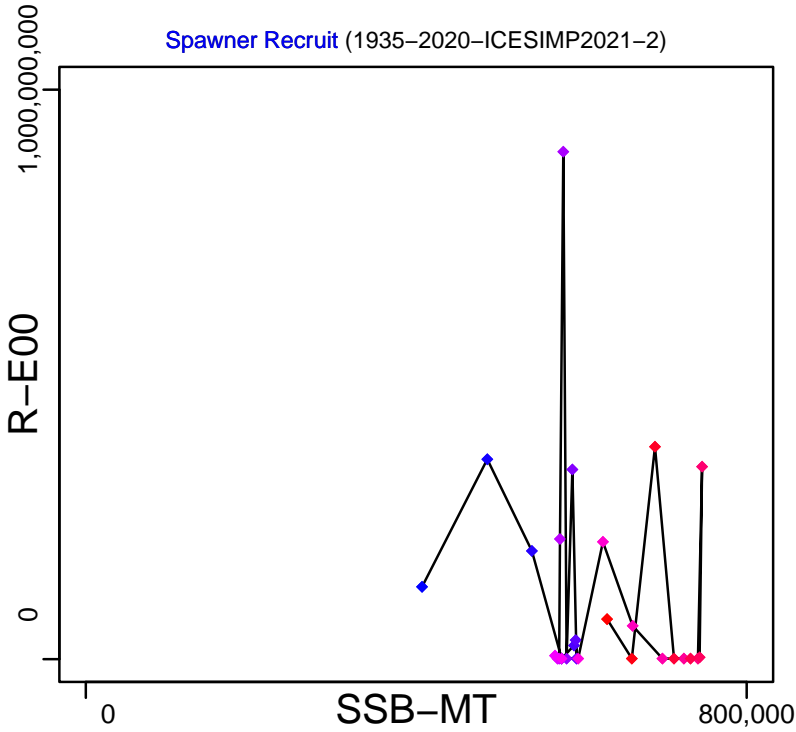
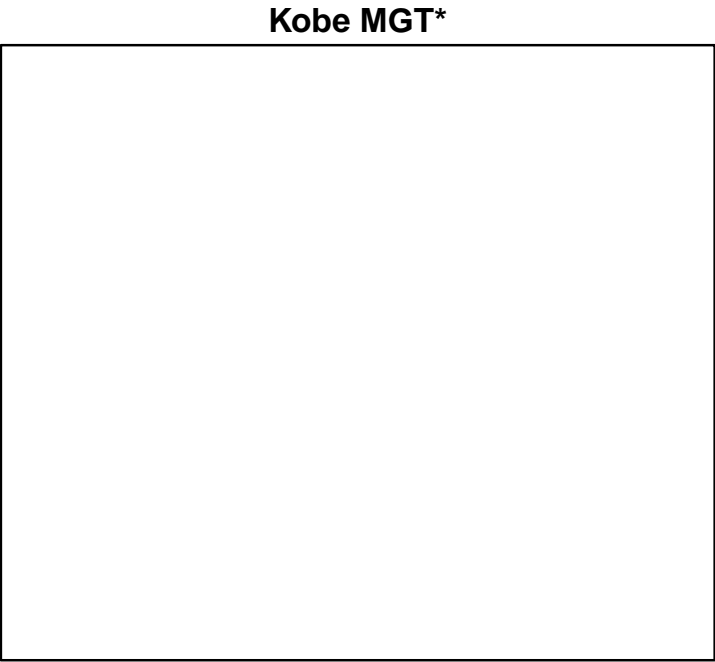
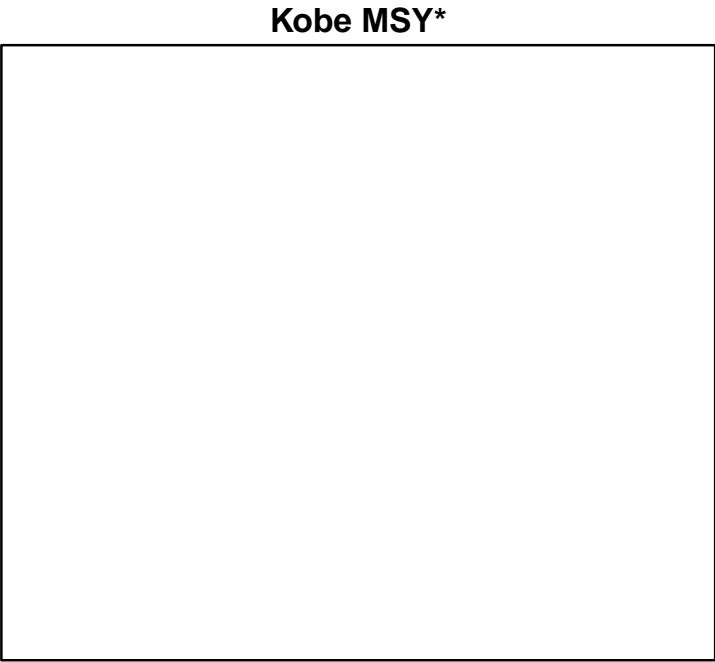


## Greenland halibut North-East Arctic [GHALNEAR]

Metadata	
<b>Scientific Name</b>	Reinhardtius hippoglossoides
<b>Current Assess ID</b>	AFWG-GHALNEAR-1935-2020-ICESIMP2021-2
<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, 2019, 2020, 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	-	-	-

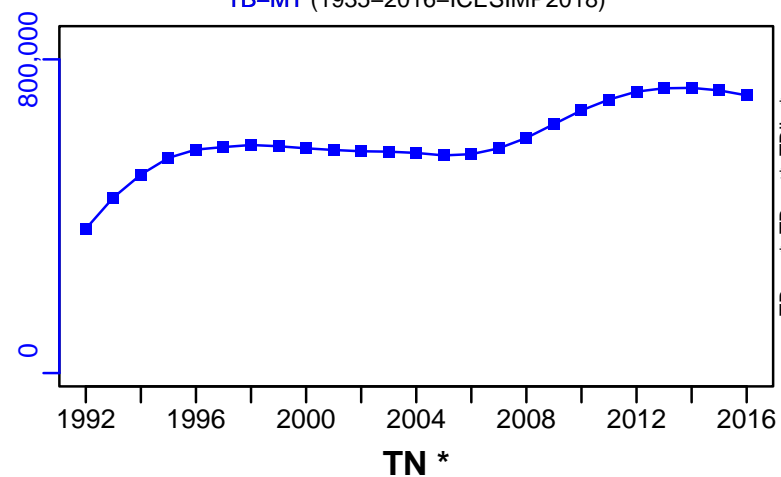
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2016	666,000	Both	-
SSB	SSB-MT	2020	601,000	-	-
TN	-	-	-	-	-
R	R-E00	2020	70,300,000	-	1
F	F-relative	2020	0.048	-	-
ER	ER-ratio	2019	0.039	-	-
TC	TC-MT	2019	28,544		
TL	TL-MT	2020	28,700		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		



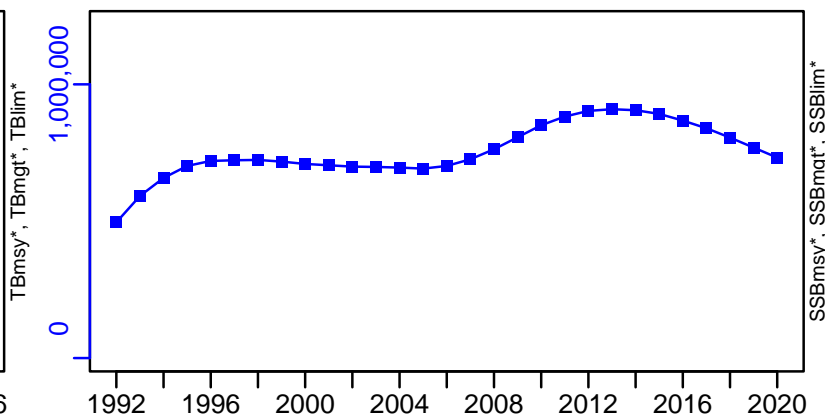
◆ Start Year ◆ End Year \* No Data

# Greenland halibut North-East Arctic [GHALNEAR]

TB-MT (1935–2016–ICESIMP2018)

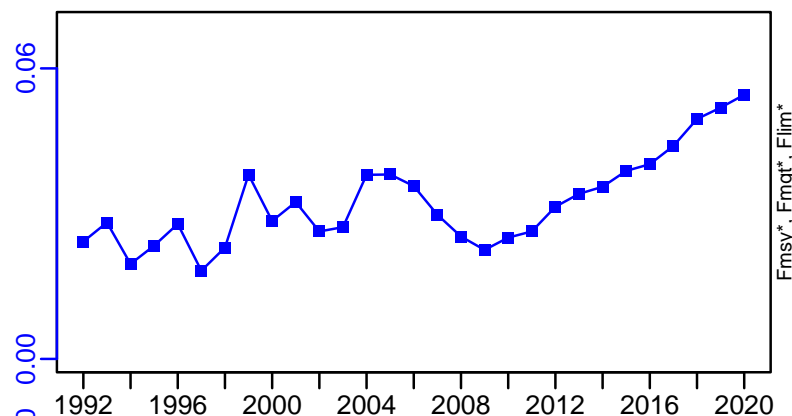
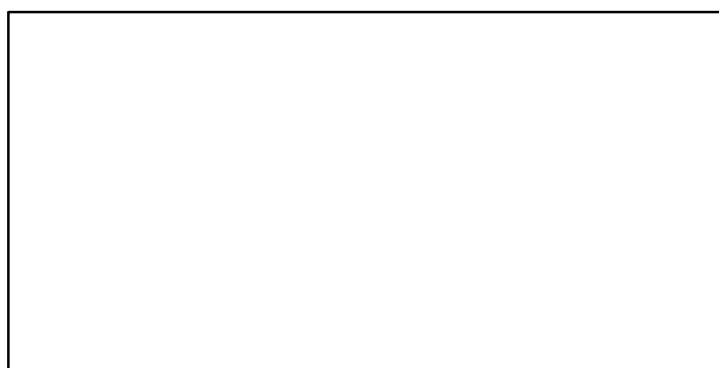


SSB-MT (1935–2020–ICESIMP2021–2)

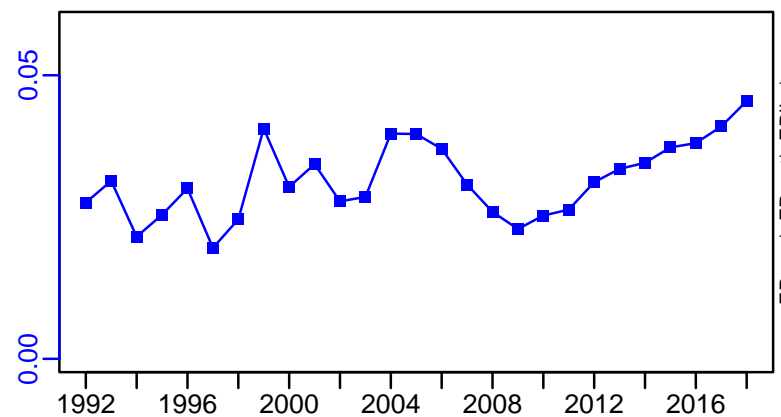


TN \*

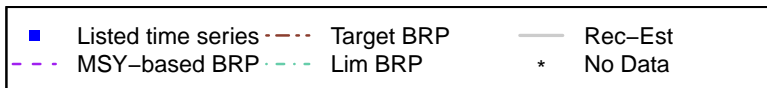
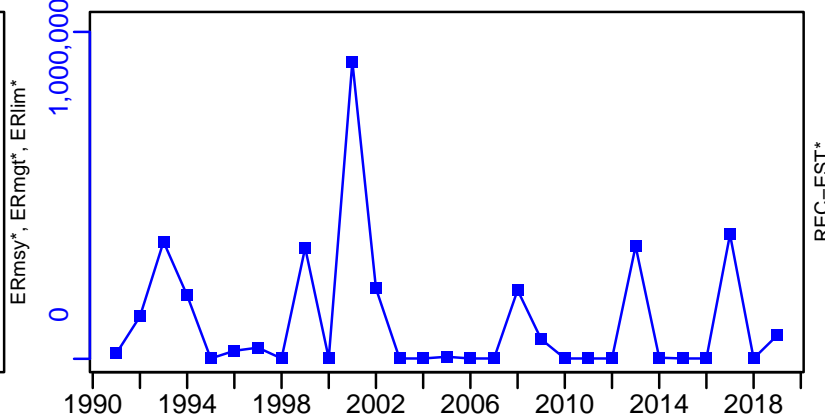
F-relative (1935–2020–ICESIMP2021–2)



ER-ratio (1935–2019–ICESIMP2021)

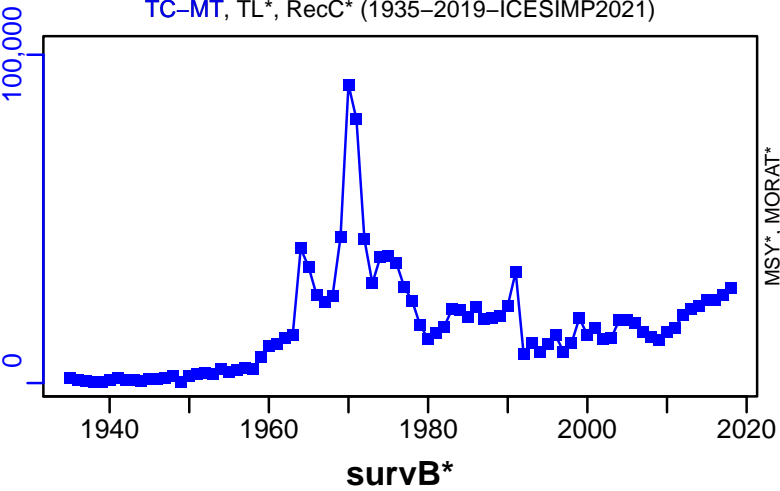


R-E00 (1935–2020–ICESIMP2021–2)

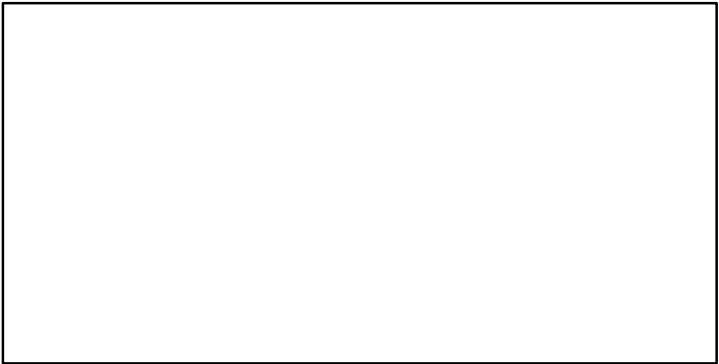


Greenland halibut North-East Arctic [GHALNEAR]

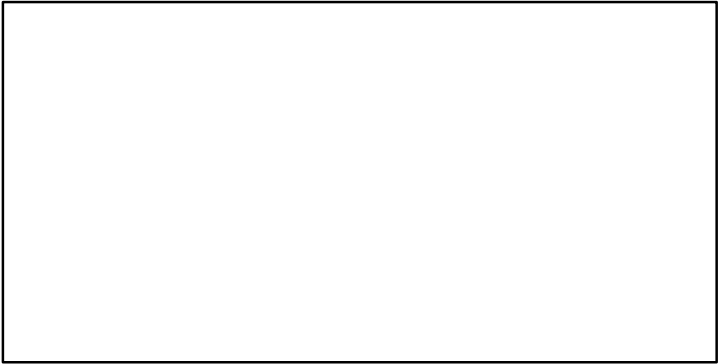
TC-MT, TL\*, RecC\* (1935-2019-ICESIMP2021)



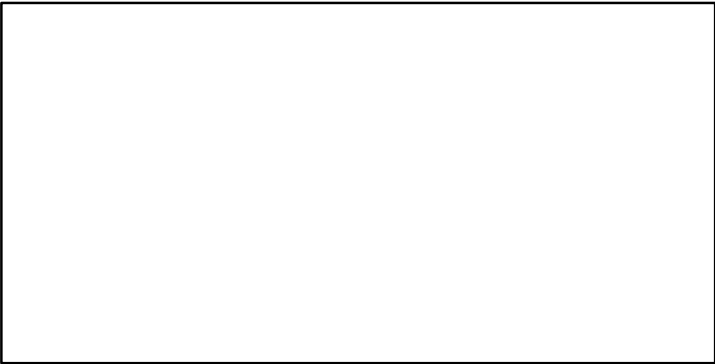
TAC\*, Cpair\*, Cadv\*



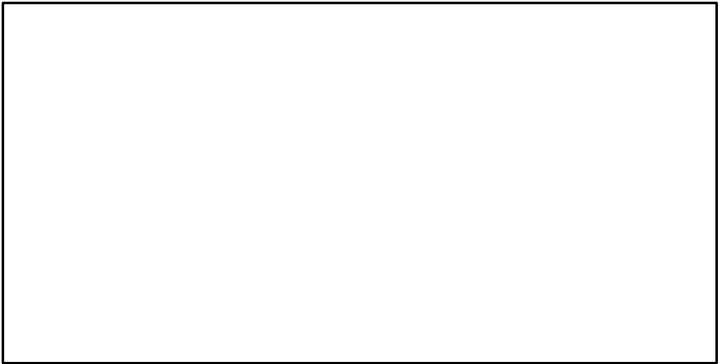
CPUE\*



EFFORT\*



CdivMSY\*



## Golden redfish North-East Arctic [GOLDREDNEAR]

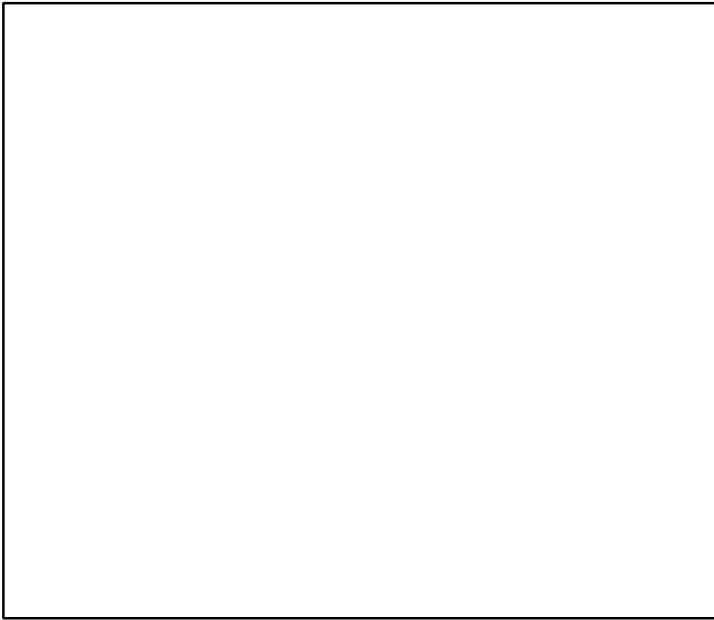
Metadata	
<b>Scientific Name</b>	Sebastes norvegicus
<b>Current Assess ID</b>	AFWG-GOLDREDNEAR-1986-2019-ICESIMP2021-2
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2010, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2019	0.052
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	Fmgt-1/yr	2019	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	2019	49,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

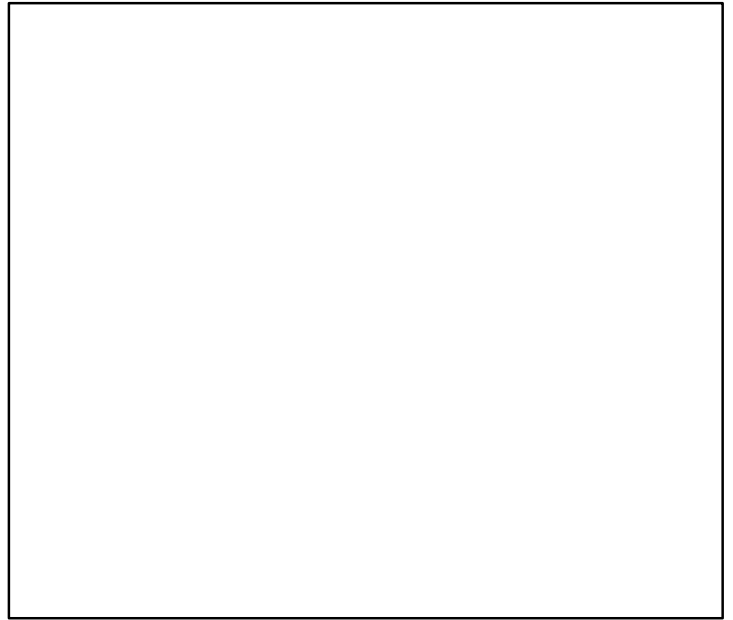
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	34,400	Both	-
<b>SSB</b>	SSB-MT	2019	23,900	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	2680	-	3
<b>F</b>	F-1/yr	2019	0.462	-	-
<b>ER</b>	ER-calc-ratio	2017	0.155	-	-
<b>TC</b>	TC-MT	2019	8280		
<b>TL</b>	TL-MT	2019	8280		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	8.805		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	8.805		
<b>ER/ERMgt</b>	-	-	-		

Golden redfish North-East Arctic [GOLDREDNEAR]

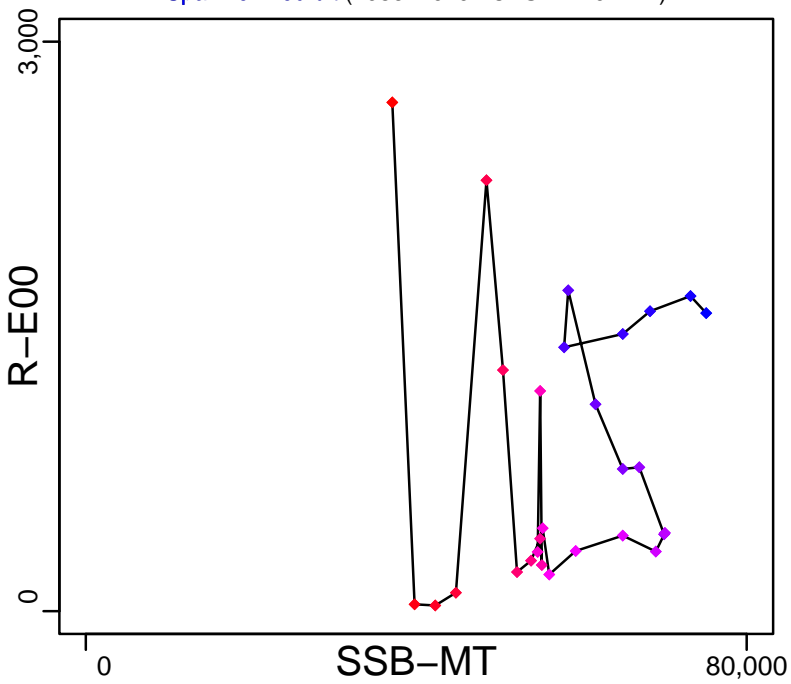
Kobe MSY\*



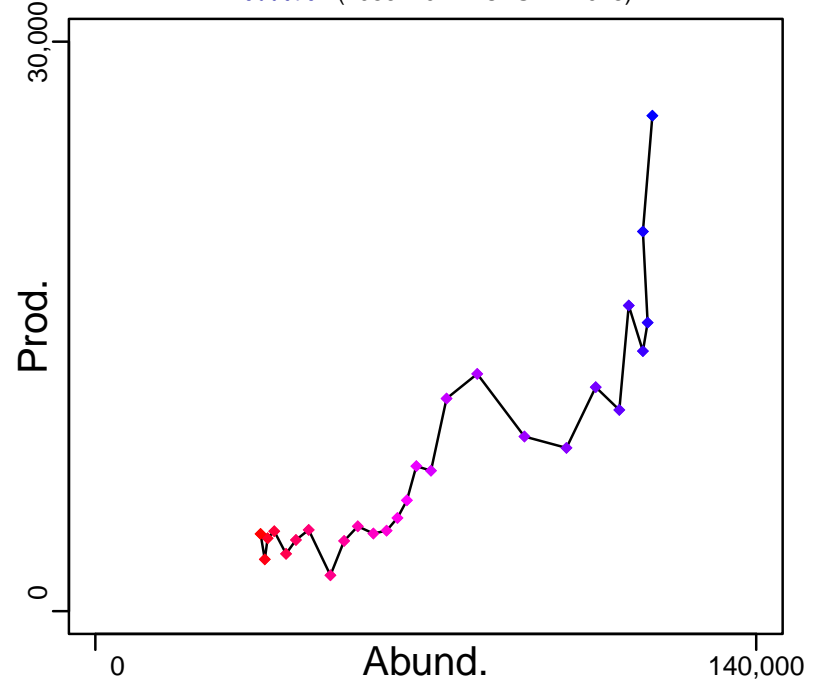
Kobe MGT\*



Spawner Recruit (1986–2019–ICESIMP2021–2)



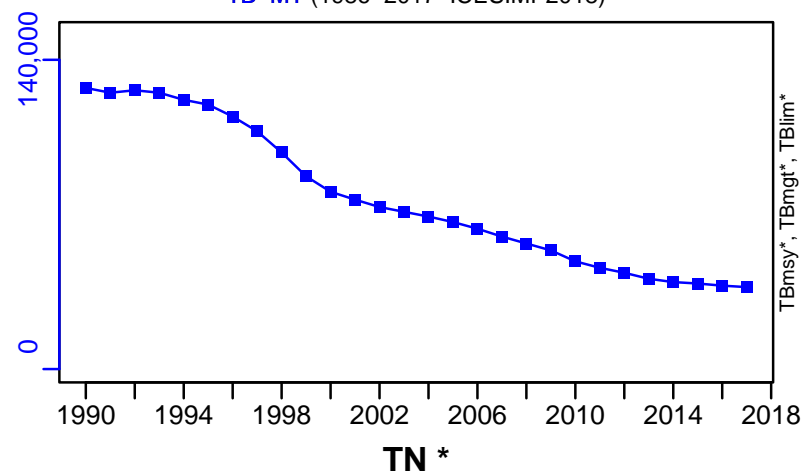
Production (1986–2017–ICESIMP2018)



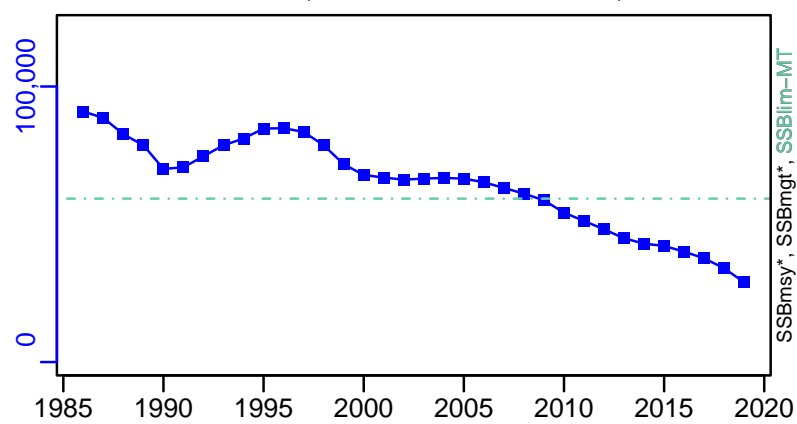
◆ Start Year ◆ End Year \* No Data

# Golden redfish North-East Arctic [GOLDREDNEAR]

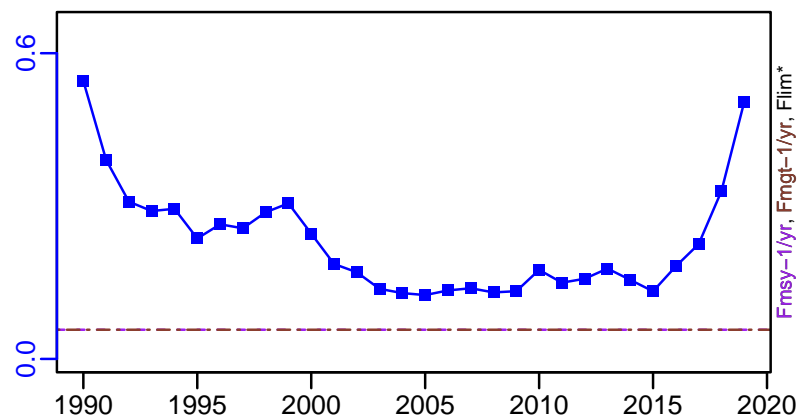
TB-MT (1986–2017–ICESIMP2018)



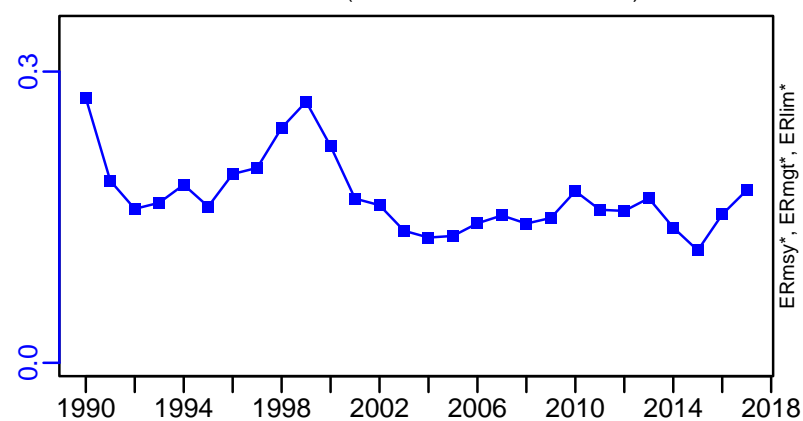
SSB-MT (1986–2019–ICESIMP2021–2)



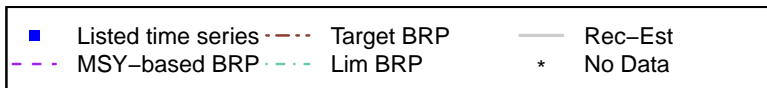
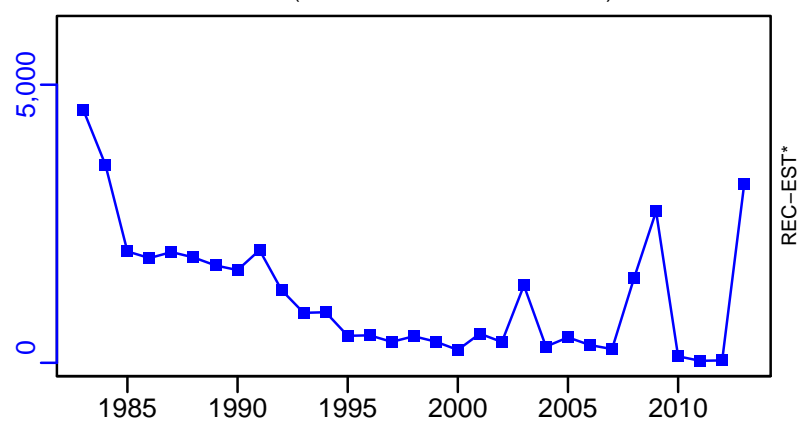
F-1/yr (1986–2019–ICESIMP2021–2)



ER-calc-ratio (1986–2017–ICESIMP2018)



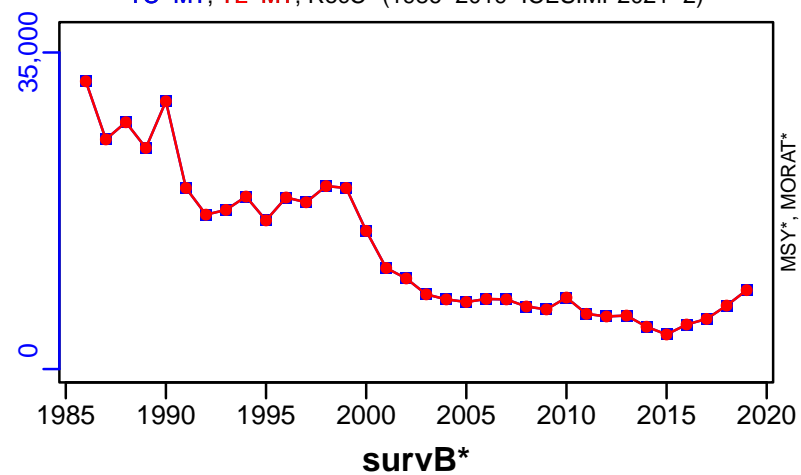
R-E00 (1986–2019–ICESIMP2021–2)





# Golden redfish North-East Arctic [GOLDREDNEAR]

TC-MT, TL-MT, RecC\* (1986–2019–ICESIMP2021–2)



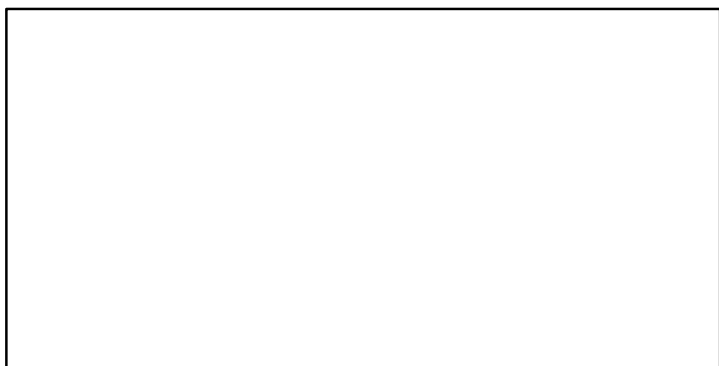
TAC\*, Cpair\*, Cadv\*



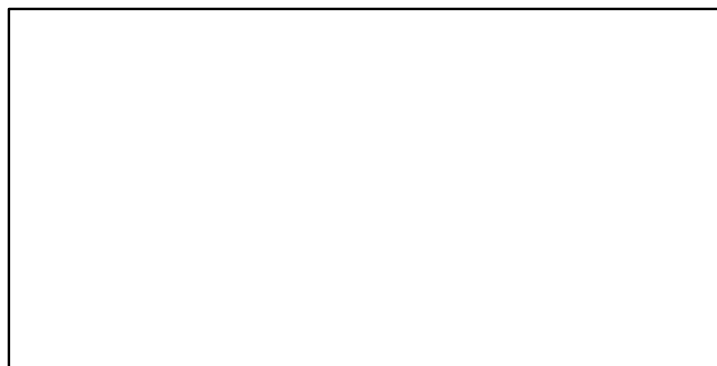
CPUE\*



EFFORT\*



CdivMSY\*



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

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

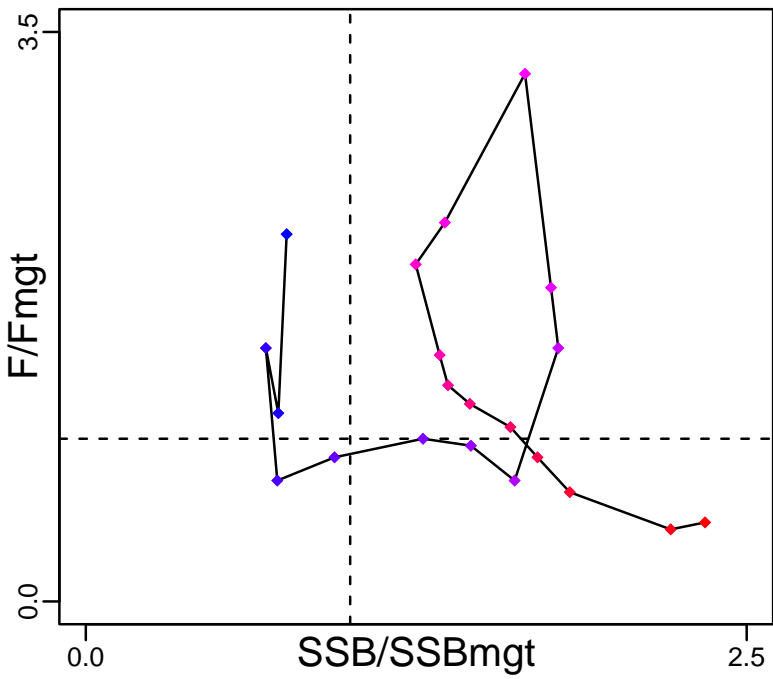
Metadata	
<b>Scientific Name</b>	Argentina silus
<b>Current Assess ID</b>	WGDEEP-GSSMELTVa-XIV-2000-2021-ICESIMP2021-2
<b>Area</b>	ICES 5a-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2016, 2016, 2017, 2018, 2020, 2021

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	2021	25,400
<b>Fmgt</b>	Fmgt-1/yr	2021	0.07
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	18,300
<b>Flim</b>	Flim-1/yr	2021	0.24
<b>ERlim</b>	-	-	-

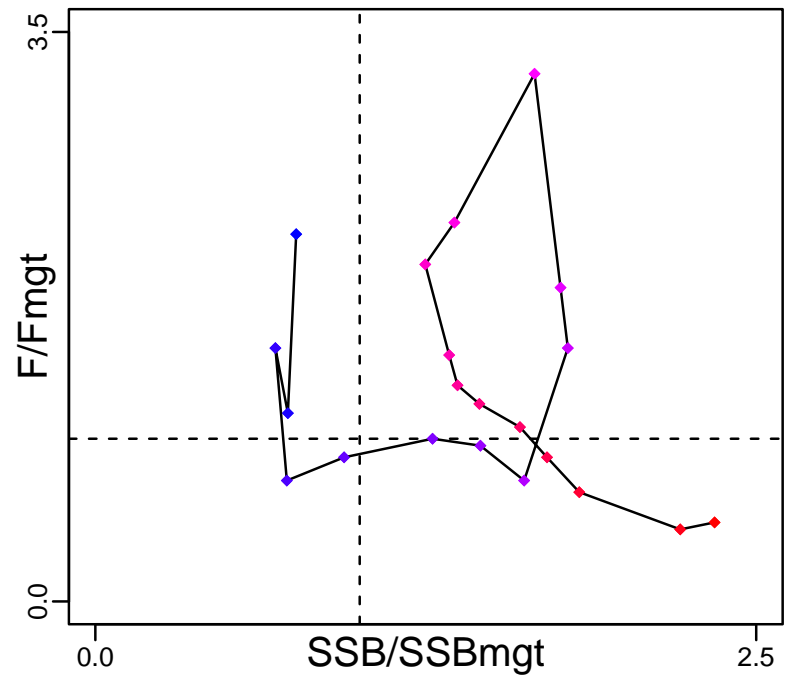
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2021	56,400	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	81,700	-	5
<b>F</b>	F-1/yr	2021	0.034	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2021	3780		
<b>TL</b>	TL-MT	2021	3780		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	2.22		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.486		
<b>ER/ERmgt</b>	-	-	-		

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

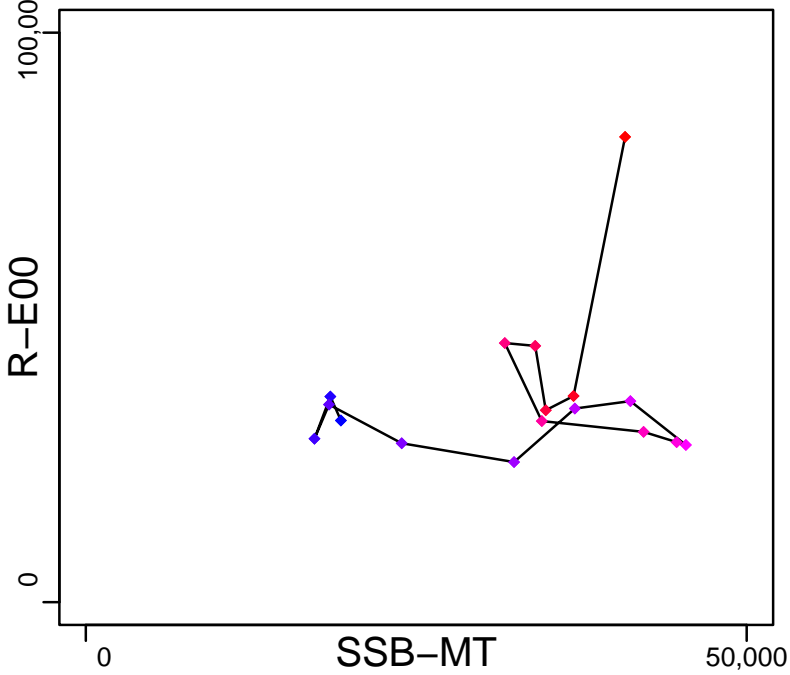
Kobe MSYpref (2000-2021-ICESIMP2021-2)



Kobe MGTpref (2000-2021-ICESIMP2021-2)



Spawner Recruit (2000-2021-ICESIMP2021-2)



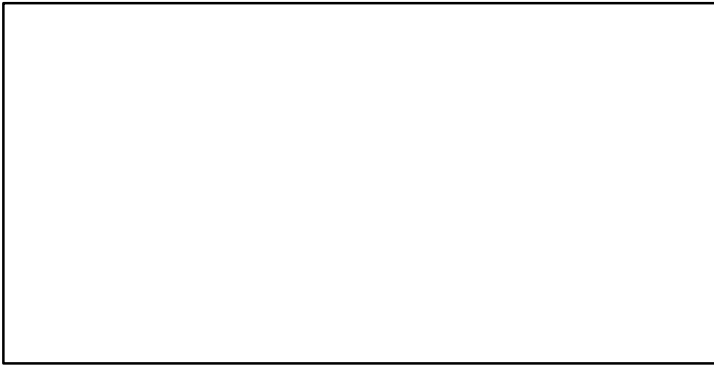
Production\*



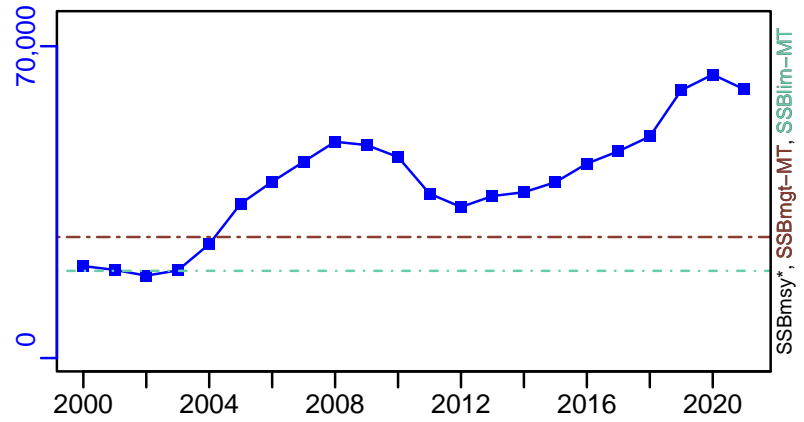
◆ Start Year ◆ End Year \* No Data

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

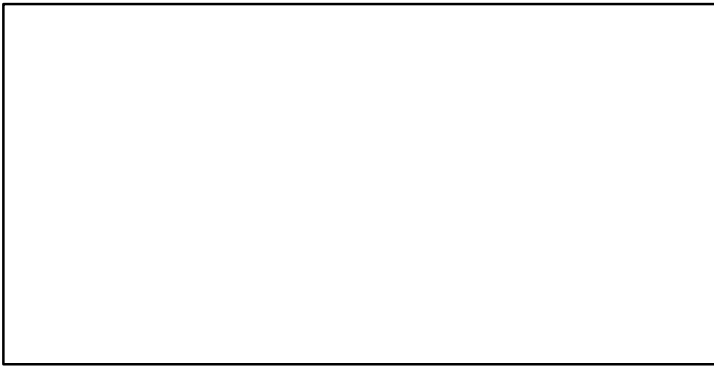
TB\*



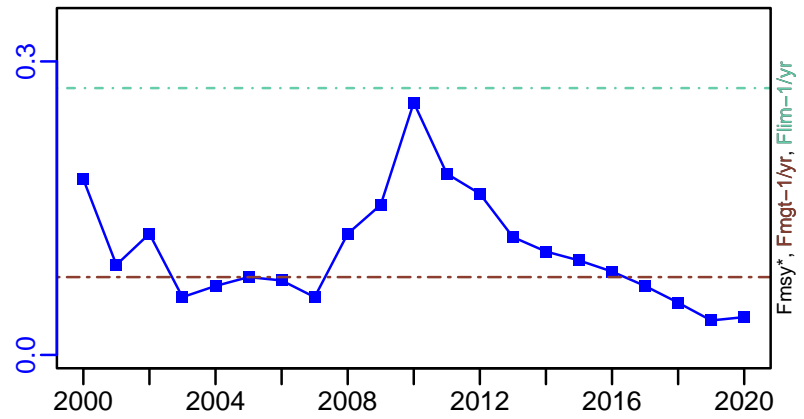
SSB-MT (2000-2021-ICESIMP2021-2)



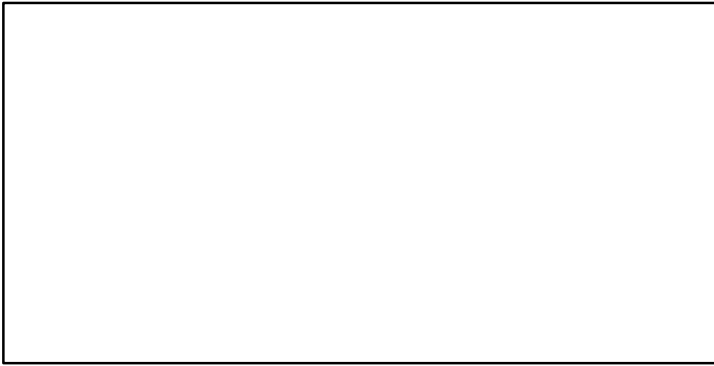
TN \*



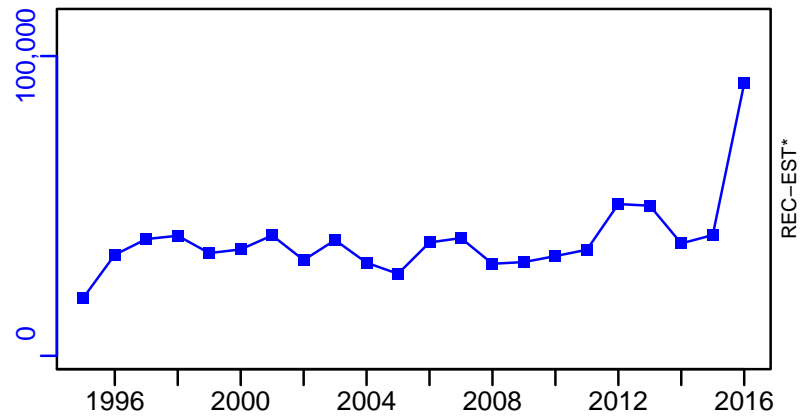
F-1/yr (2000-2021-ICESIMP2021-2)



ER\*

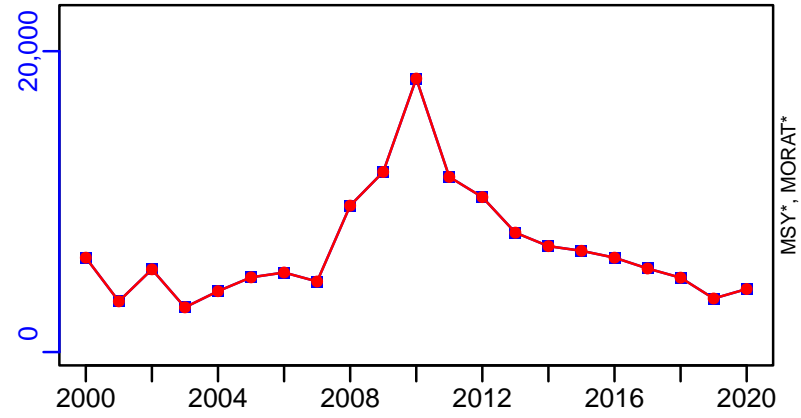


R-E00 (2000-2021-ICESIMP2021-2)



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

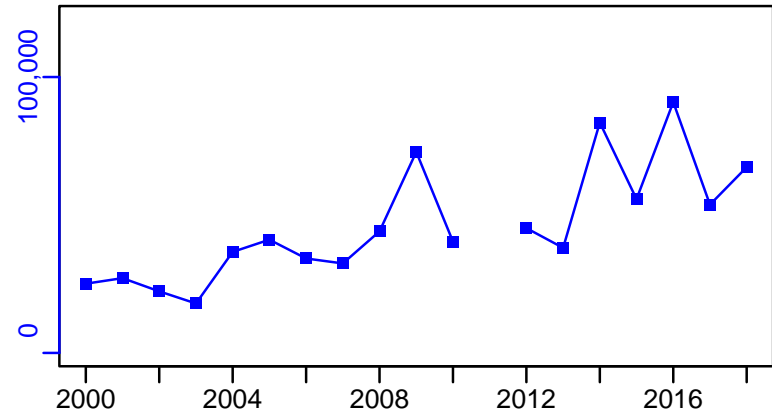
TC-MT, TL-MT, RecC\* (2000-2021-ICESIMP2021-2)



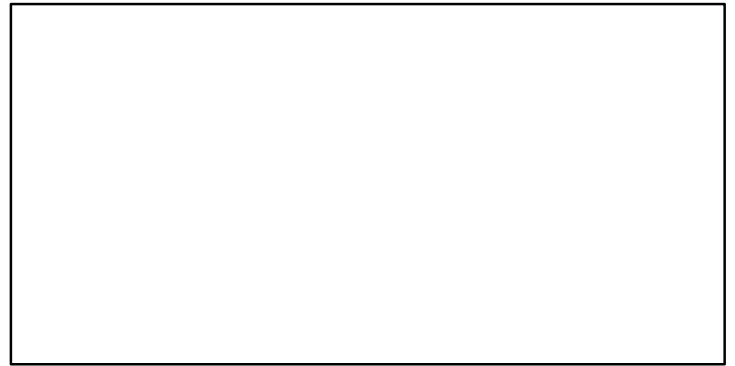
TAC\*, Cpair\*, Cadv\*



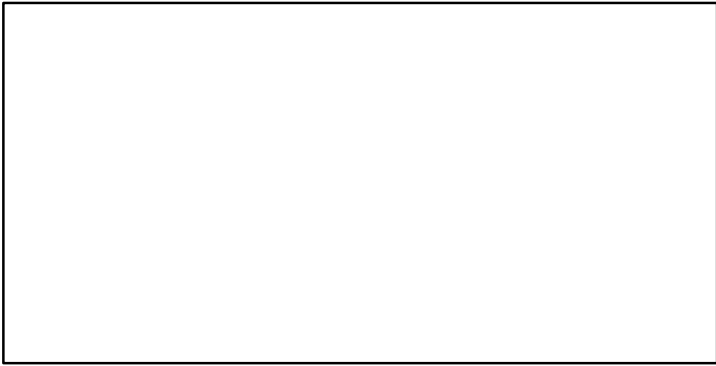
survB-MT (2000-2018-ICESIMP2021)



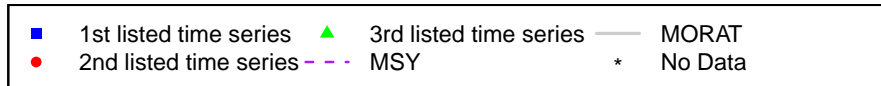
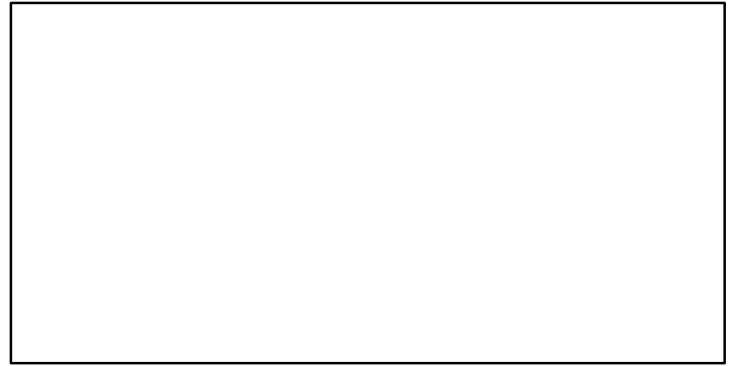
CPUE\*



EFFORT\*



CdivMSY\*



## Greater silver smelt ICES 5b-6a [GSSMELTVb-VIa]

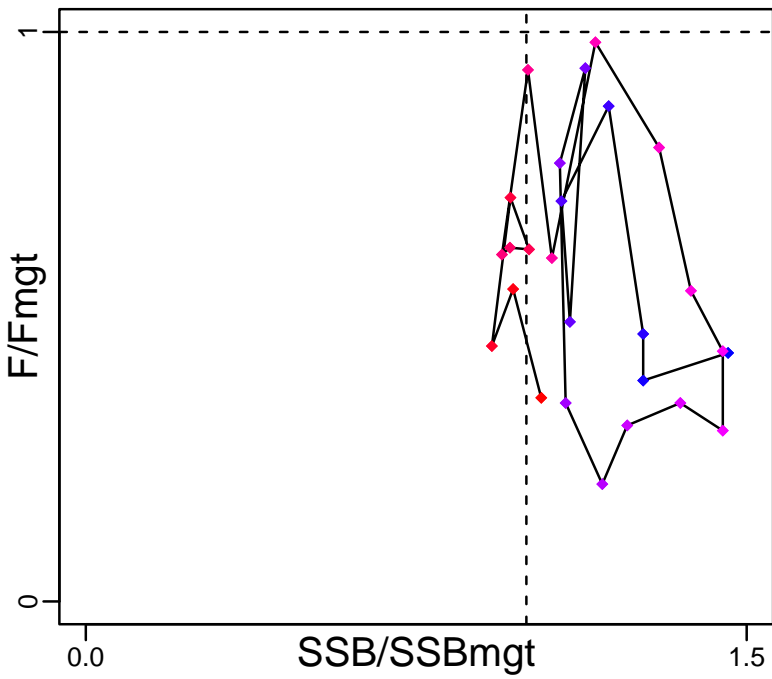
Metadata	
<b>Scientific Name</b>	Argentina silus
<b>Current Assess ID</b>	WGDEEP-GSSMELTVb-VIa-1988-2021-ICESIMP2021-2
<b>Area</b>	ICES 5b-6a
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 2016, 2018, 2021

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	2021	83,000
<b>Fmgt</b>	Fmgt-1/yr	2021	0.33
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	59,700
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

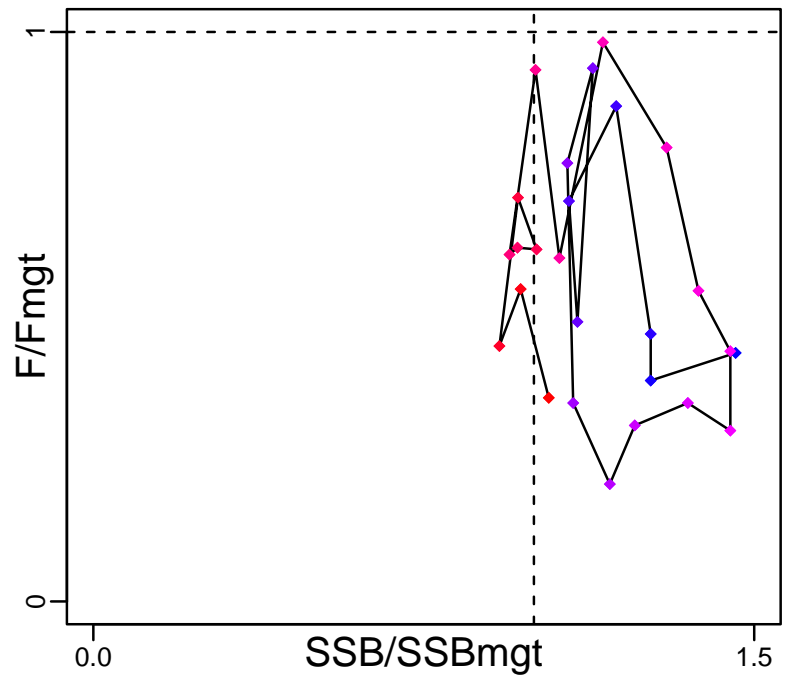
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2021	89,300	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	107,000	-	5
<b>F</b>	F-1/yr	2021	0.118	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2016	18,000		
<b>TL</b>	TL-MT	2021	17,000		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	1.076		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.358		
<b>ER/ERmgt</b>	-	-	-		

# Greater silver smelt ICES 5b-6a [GSSMELTVb-VIa]

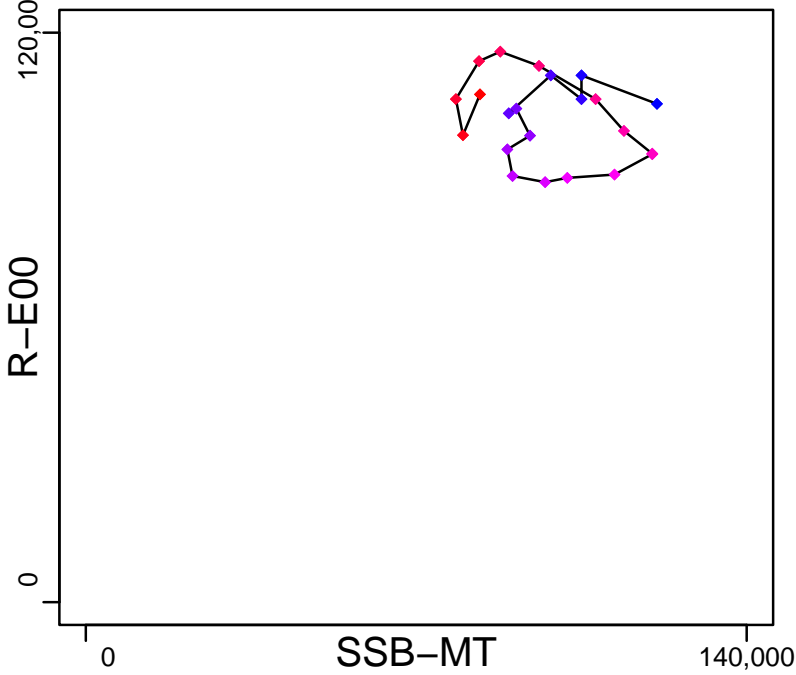
Kobe MSYpref (1988-2021-ICESIMP2021-2)



Kobe MGTpref (1988-2021-ICESIMP2021-2)



Spawner Recruit (1988-2021-ICESIMP2021-2)



Production\*



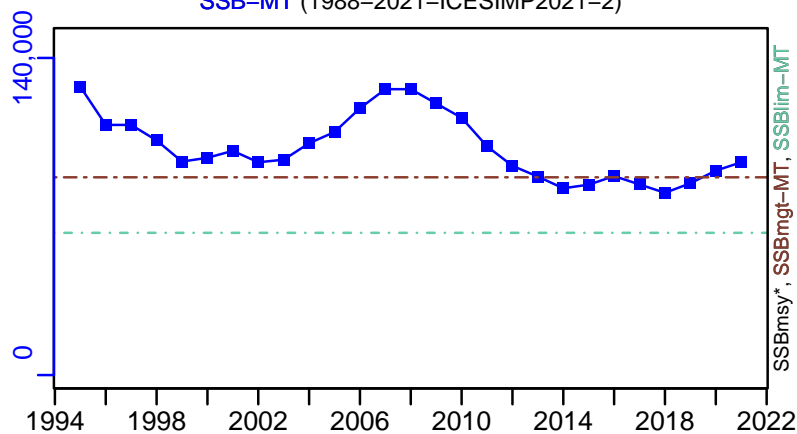
◆ Start Year ◆ End Year \* No Data

# Greater silver smelt ICES 5b-6a [GSSMELTVb-VIa]

TB\*



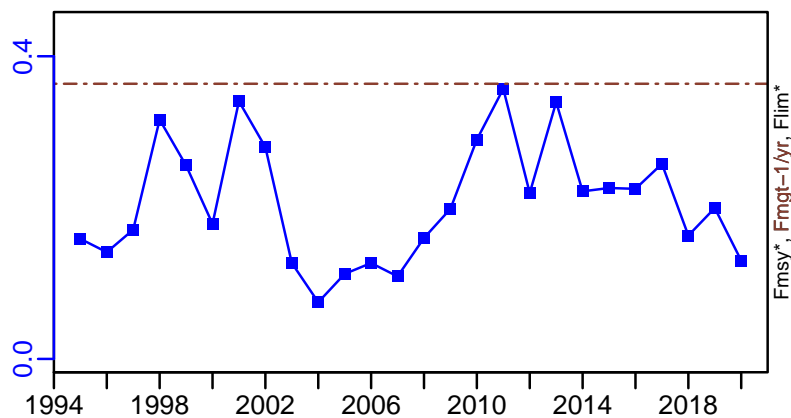
SSB-MT (1988-2021-ICESIMP2021-2)



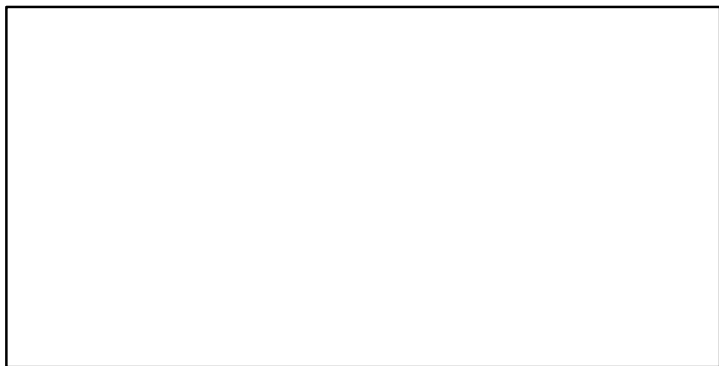
TN \*



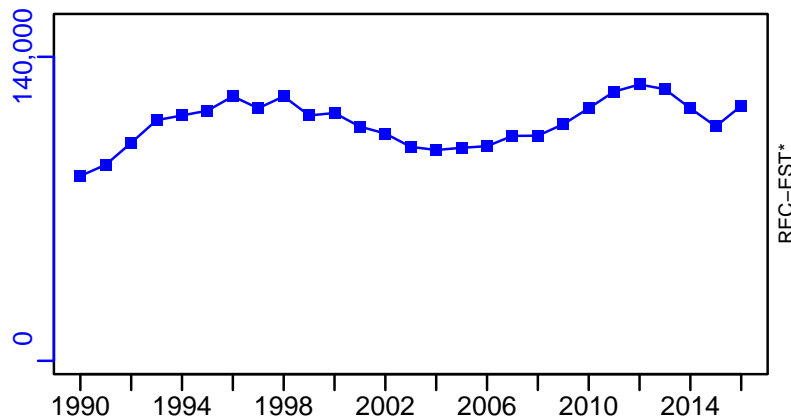
F-1/yr (1988-2021-ICESIMP2021-2)



ER\*



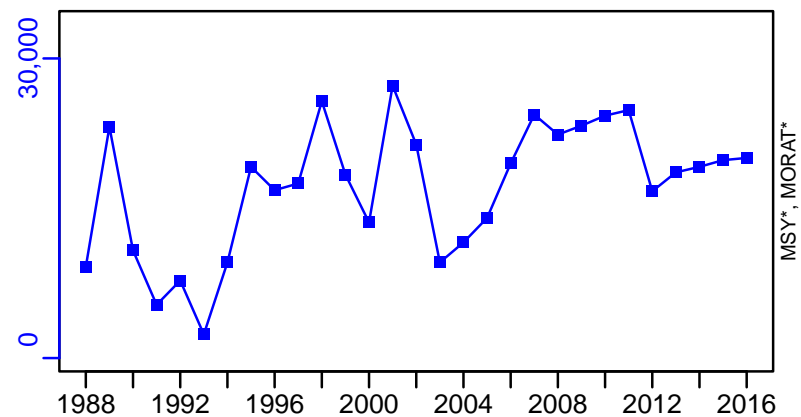
R-E00 (1988-2021-ICESIMP2021-2)





# Greater silver smelt ICES 5b-6a [GSSMELTVb-VIa]

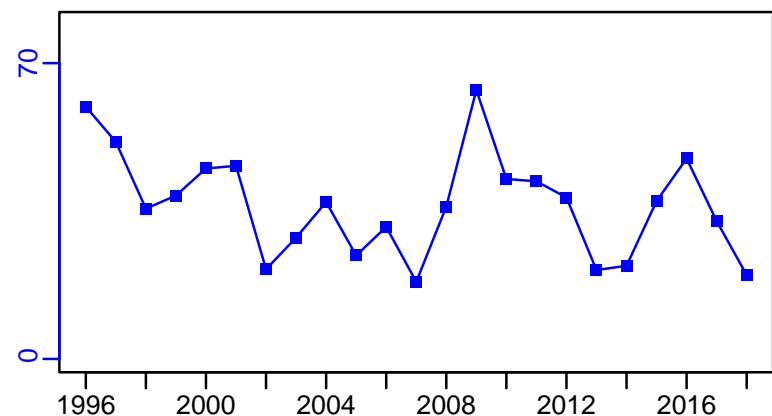
TC-MT, TL\*, RecC\* (1988-2016-ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



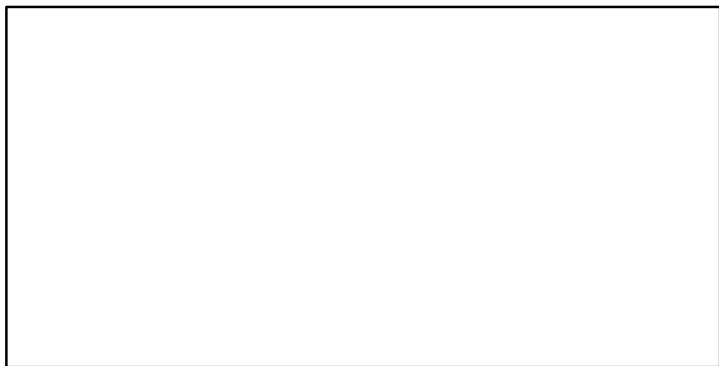
survB-index (1988-2018-ICESIMP2021)



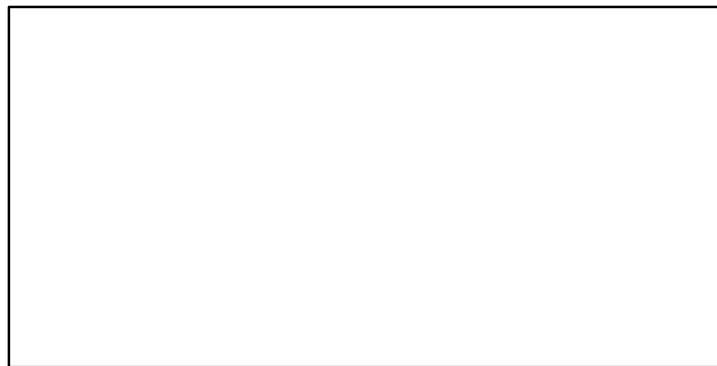
CPUE\*



EFFORT\*



CdivMSY\*



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

## Haddock Faroe Plateau [HADFAPL]

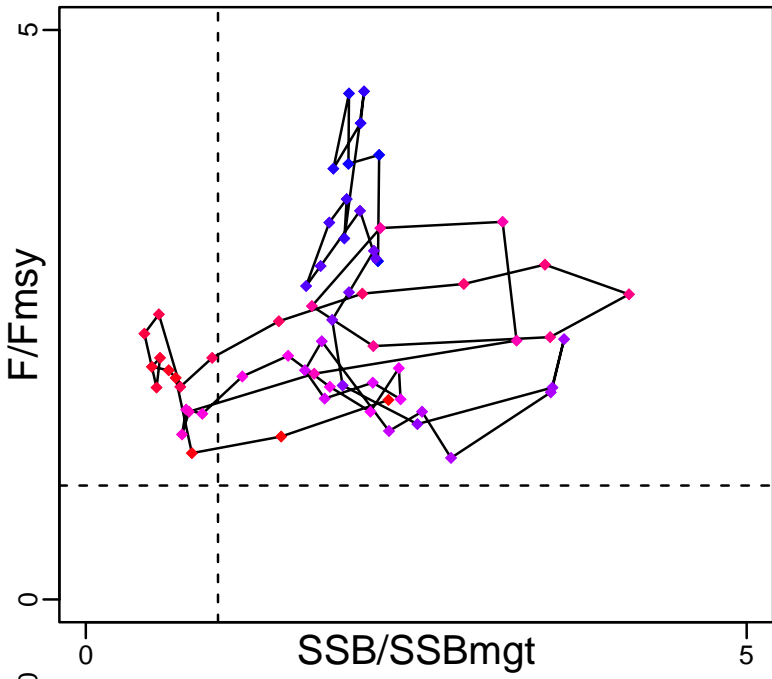
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADFAPL-1957-2020-ICESIMP2021-2
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2020	0.165
<b>ERmsy</b>	ERmsy-ratio	2019	0.165
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2020	22,800
<b>Fmgt</b>	Fmgt-1/yr	2020	0.165
<b>ERmgt</b>	ERmgt-ratio	2019	0.165
<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	2020	16,800
<b>Flim</b>	Flim-1/yr	2020	0.54
<b>ERlim</b>	-	-	-

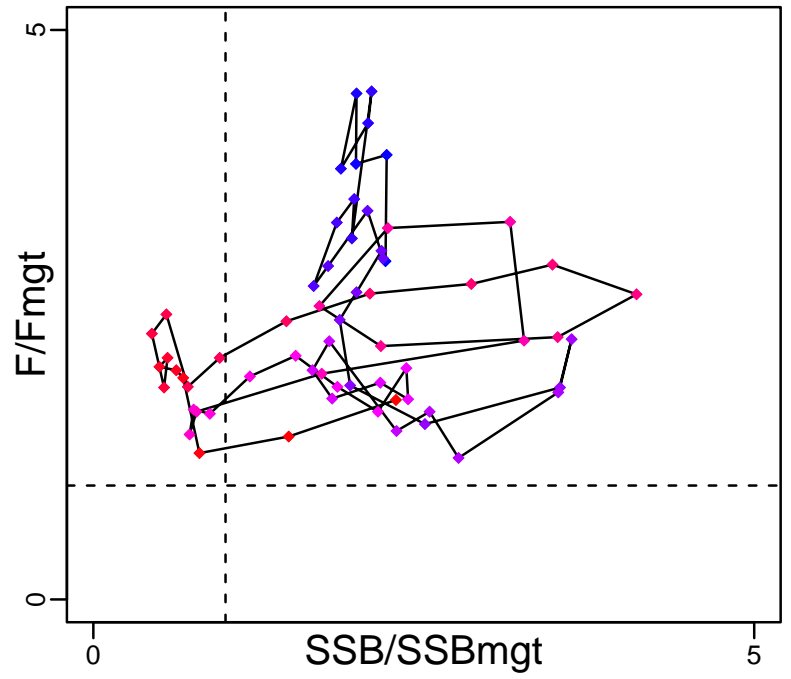
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	90,093	-	-
<b>SSB</b>	SSB-MT	2020	53,800	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2020	9,950,000	-	1
<b>F</b>	F-1/yr	2020	0.289	-	-
<b>ER</b>	ER-ratio	2019	0.163	-	3 to 7
<b>TC</b>	TC-MT	2020	9330		
<b>TL</b>	TL-MT	2020	9330		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2020	1.752		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2019	0.988		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2020	2.36		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2020	1.752		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Faroe Plateau [HADFAPL]

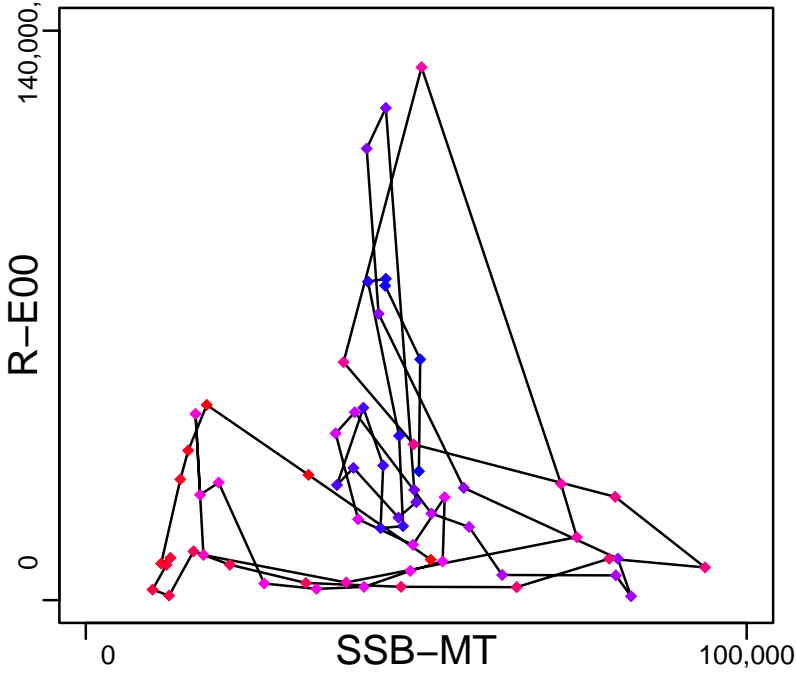
Kobe MSYpref (1957–2020–ICESIMP2021–2)



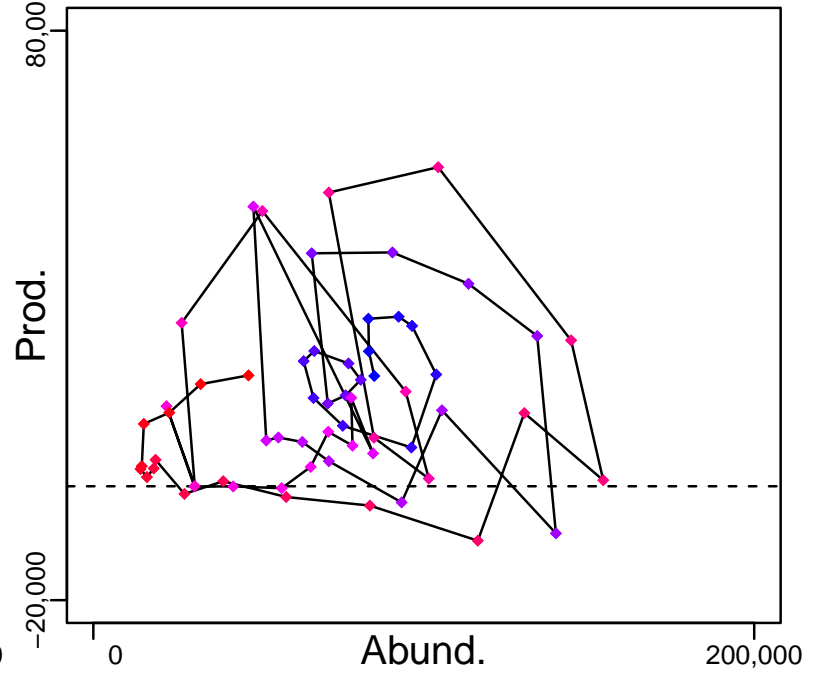
Kobe MGTpref (1957–2020–ICESIMP2021–2)



Spawner Recruit (1957–2020–ICESIMP2021–2)



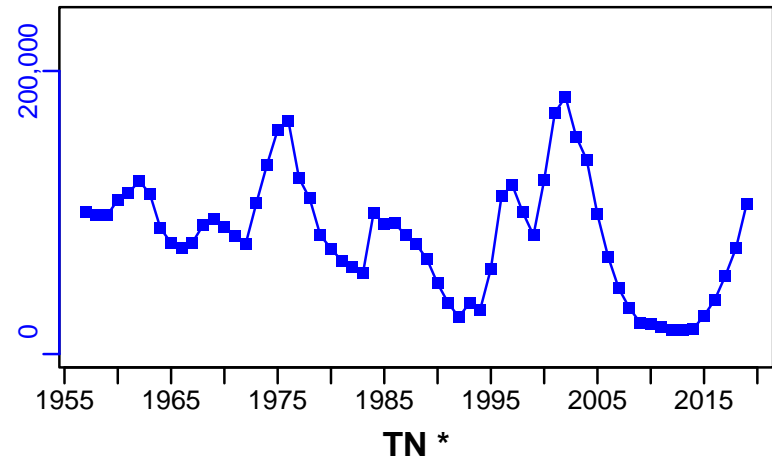
Production (1956–2019–ICESIMP2021)



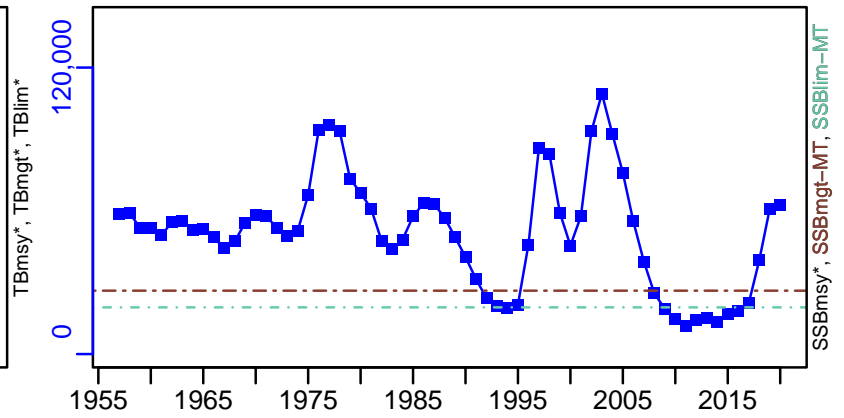
◆ Start Year ◆ End Year \* No Data

# Haddock Faroe Plateau [HADFAPL]

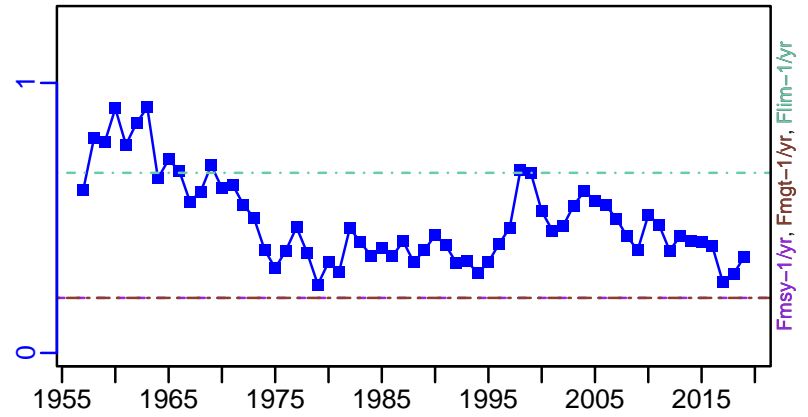
TB-MT (1956–2019–ICESIMP2021)



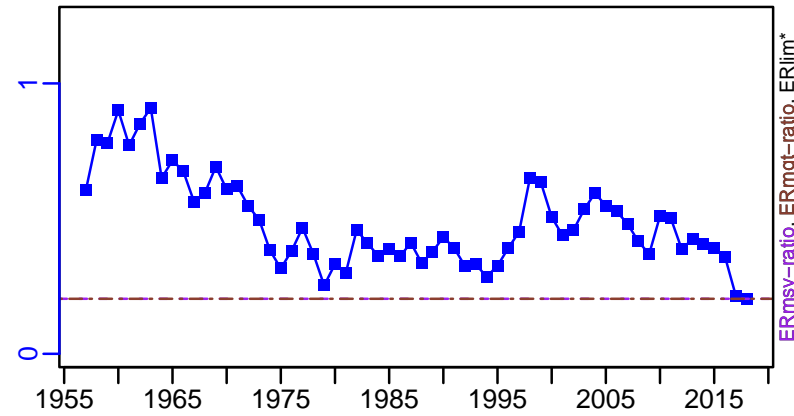
SSB-MT (1957–2020–ICESIMP2021–2)



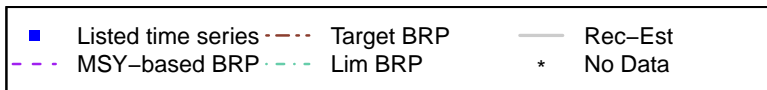
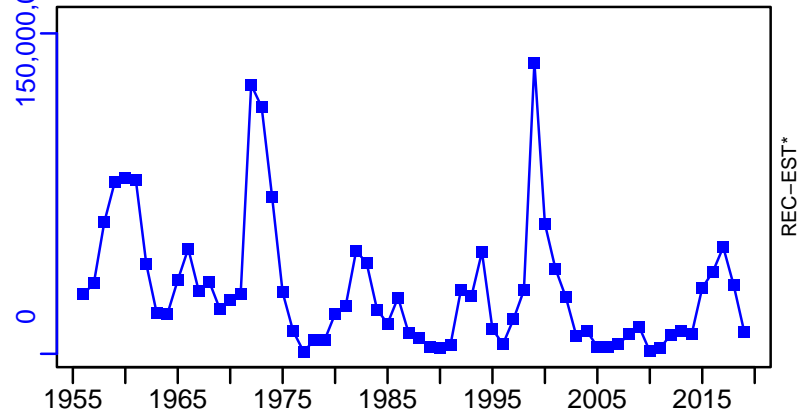
F-1/yr (1957–2020–ICESIMP2021–2)



ER-ratio (1956–2019–ICESIMP2021)



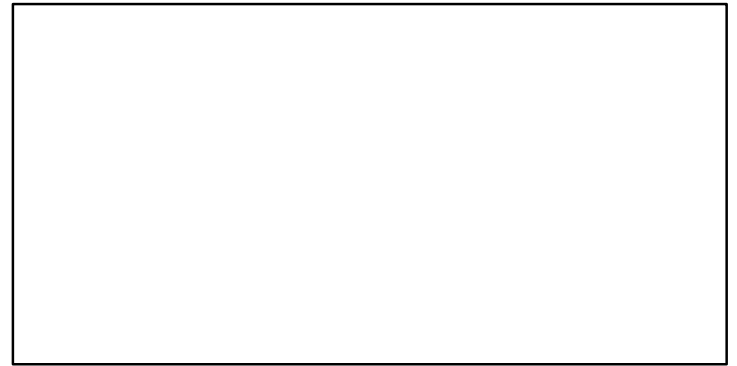
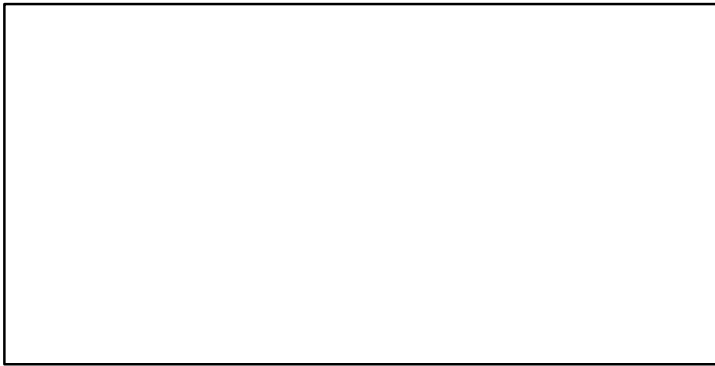
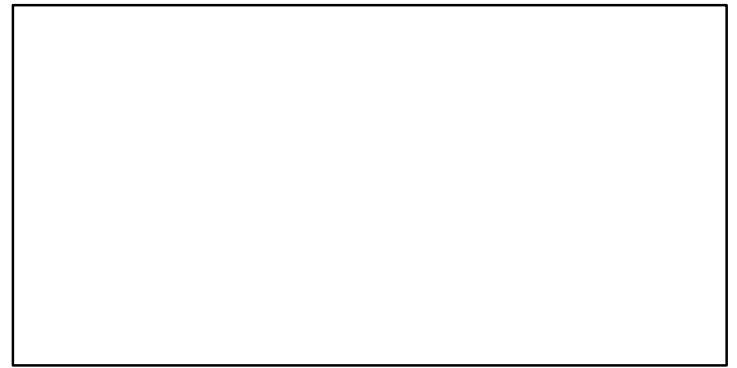
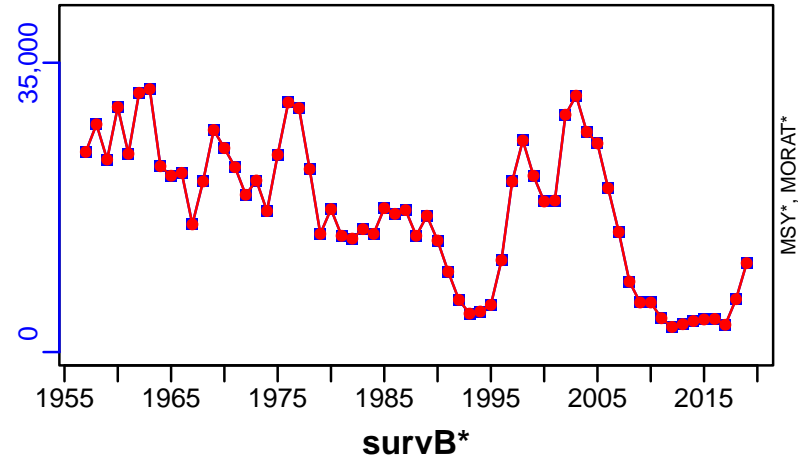
R-E00 (1957–2020–ICESIMP2021–2)



# Haddock Faroe Plateau [HADFAPL]

TC-MT, TL-MT, RecC\* (1957-2020-ICESIMP2021-2)

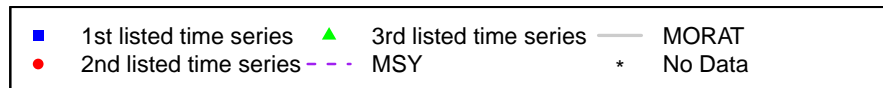
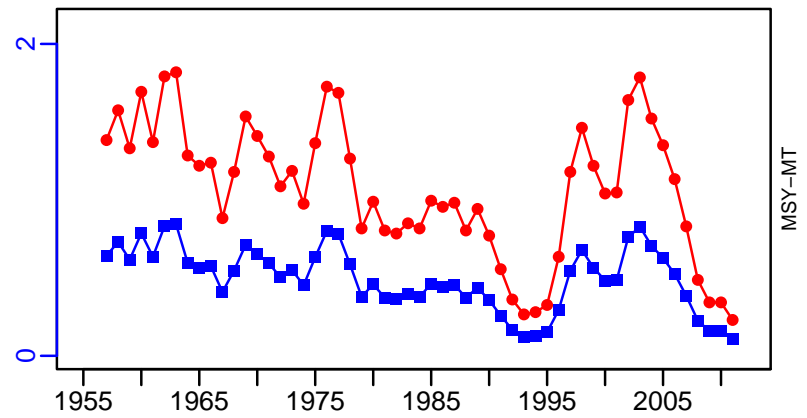
TAC\*, Cpair\*, Cadv\*



EFFORT\*



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



## Haddock Iceland Grounds [HADICE]

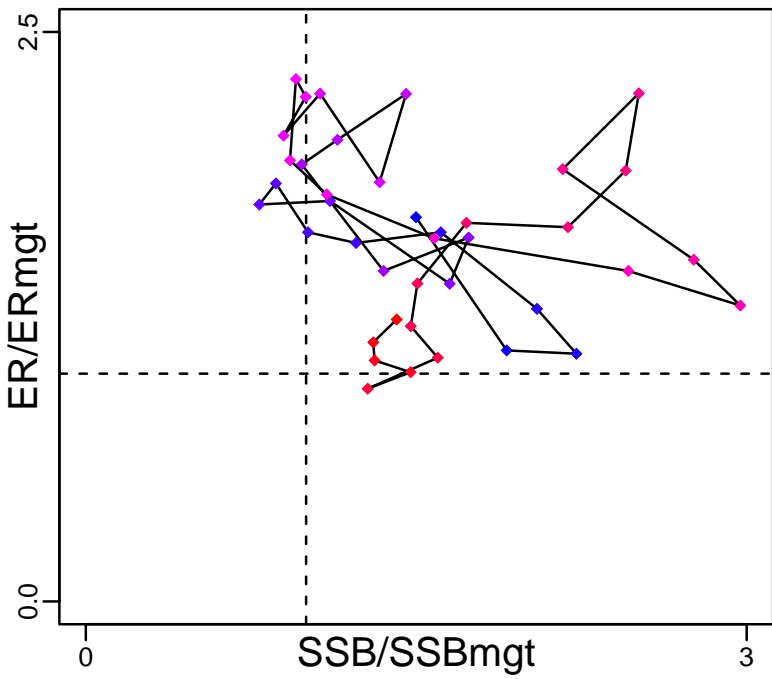
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADICE-1979-2021-ICESIMP2021-2
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

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	2019	49,400
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2019	0.35
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	35,500
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

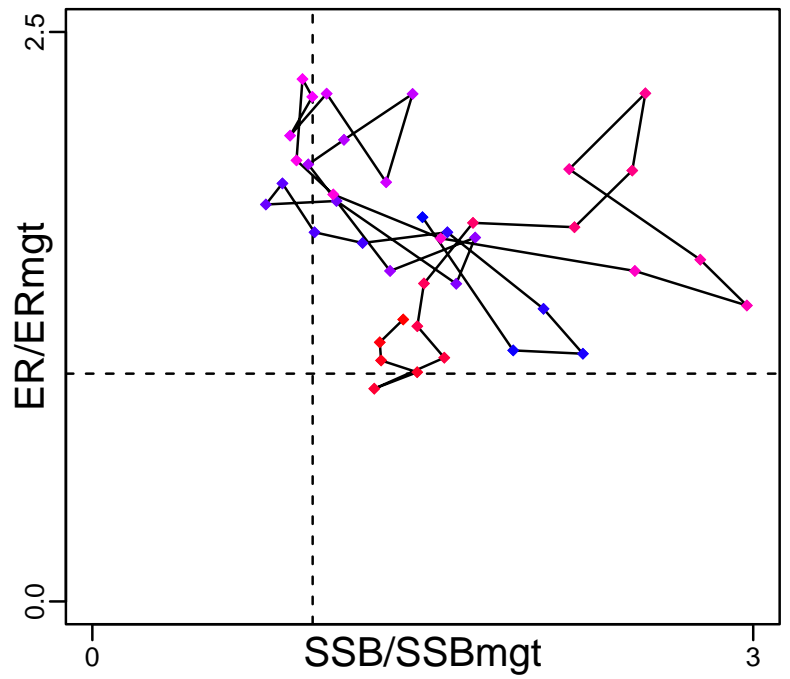
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	122,611	Both	-
<b>SSB</b>	SSB-MT	2021	79,600	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	167,000	-	2
<b>F</b>	F-1/yr	2018	0.368	-	4 to 7
<b>ER</b>	ER-ratio	2021	0.449	-	-
<b>TC</b>	TC-MT	2021	54,500		
<b>TL</b>	TL-MT	2021	54,500		
<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	2019	1.554		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Iceland Grounds [HADICE]

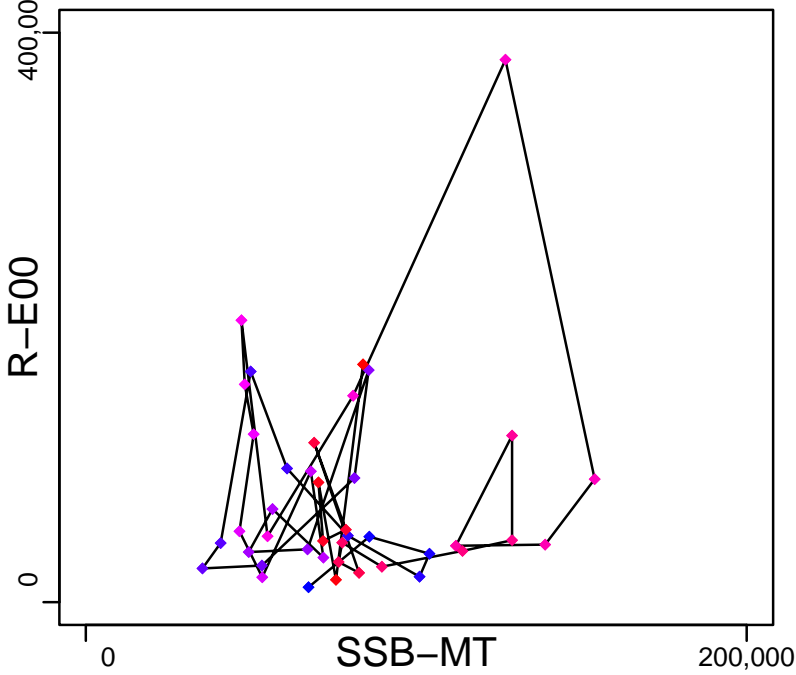
Kobe MSYpref (1977–2019–ICESIMP2021)



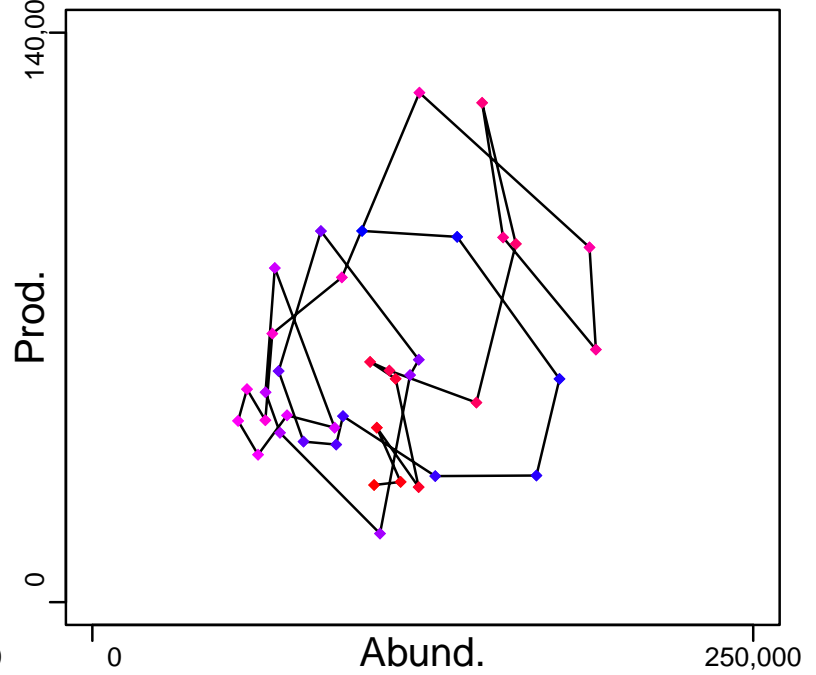
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1979–2021–ICESIMP2021–2)



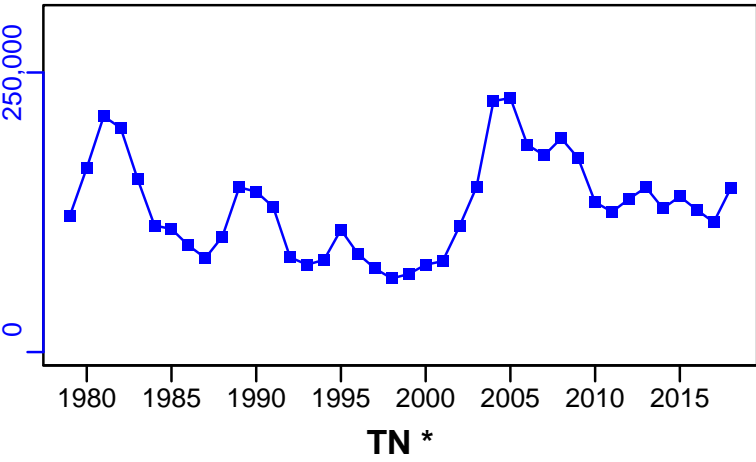
Production (1977–2018–ICESIMP2018)



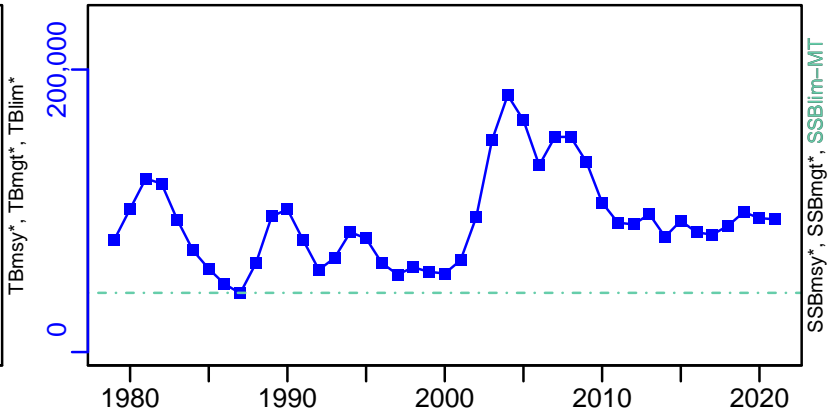
◆ Start Year ◆ End Year \* No Data

# Haddock Iceland Grounds [HADICE]

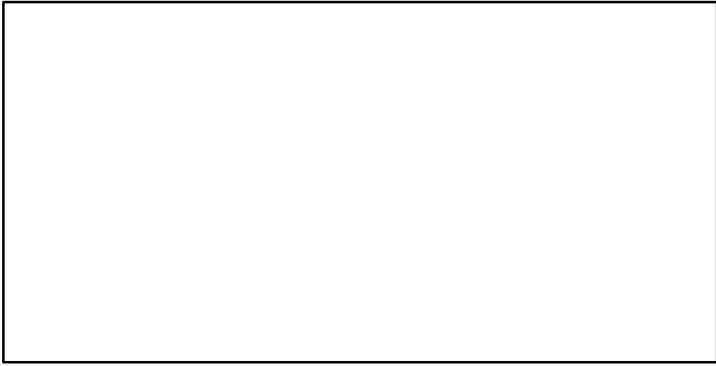
TB-MT (1977–2018–ICESIMP2018)



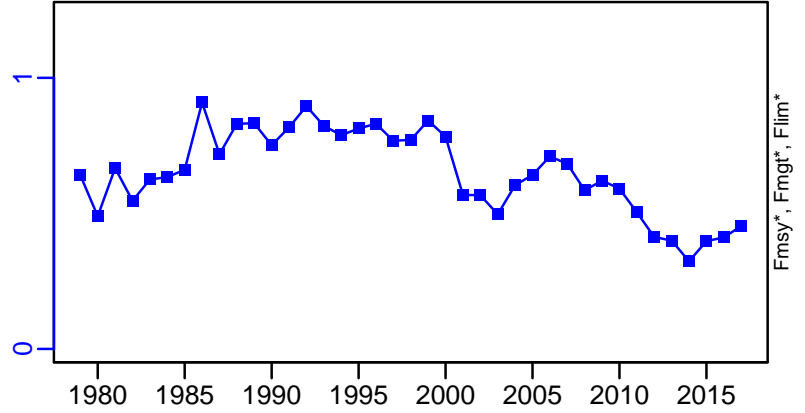
SSB-MT (1979–2021–ICESIMP2021–2)



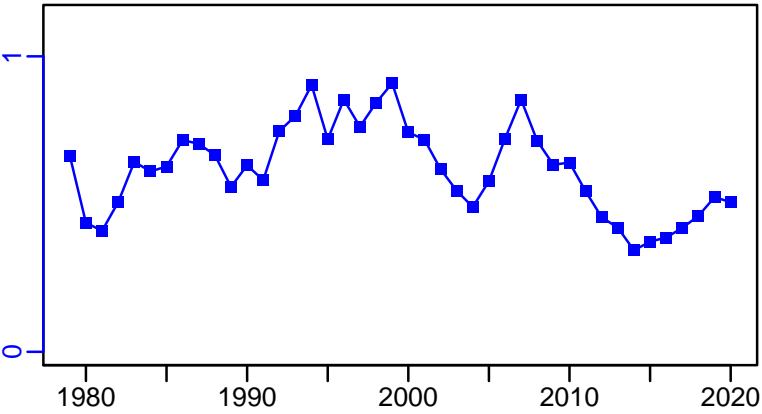
TN \*



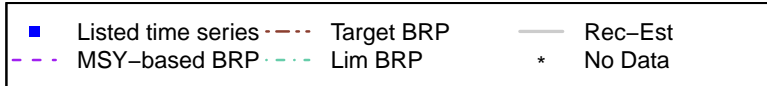
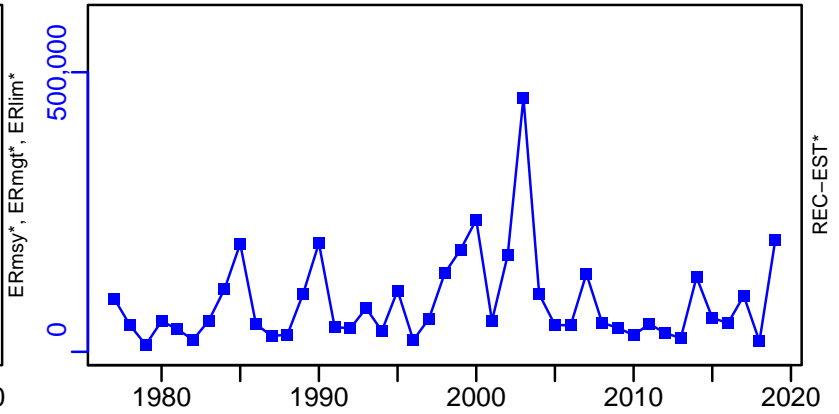
F-1/yr (1977–2018–ICESIMP2018)



ER-ratio (1979–2021–ICESIMP2021–2)



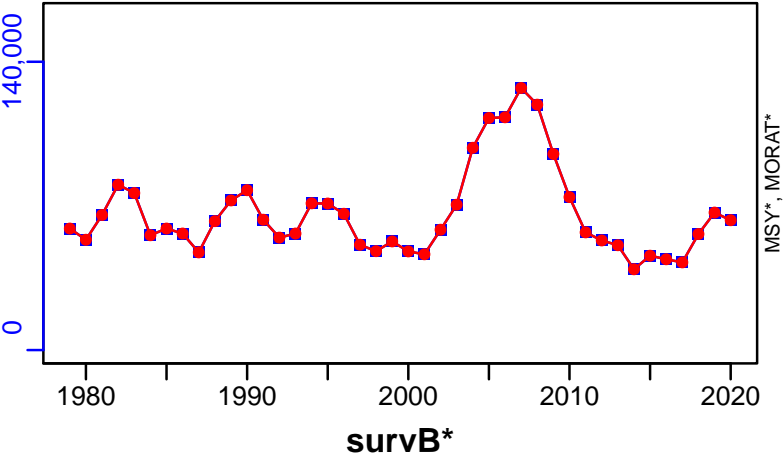
R-E00 (1979–2021–ICESIMP2021–2)



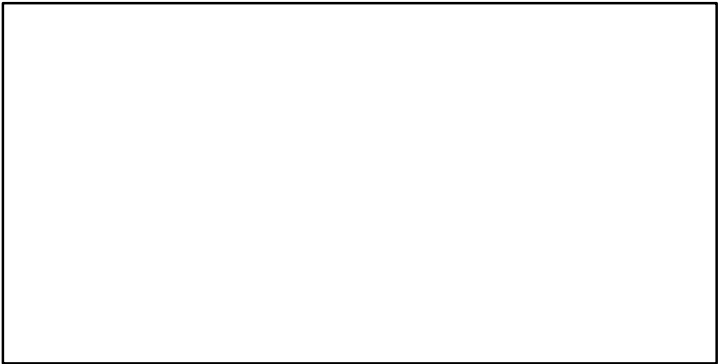


Haddock Iceland Grounds [HADICE]

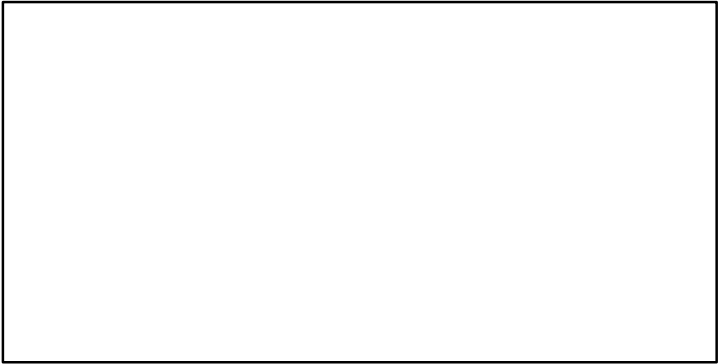
TC-MT, TL-MT, RecC\* (1979-2021-ICESIMP2021-2)



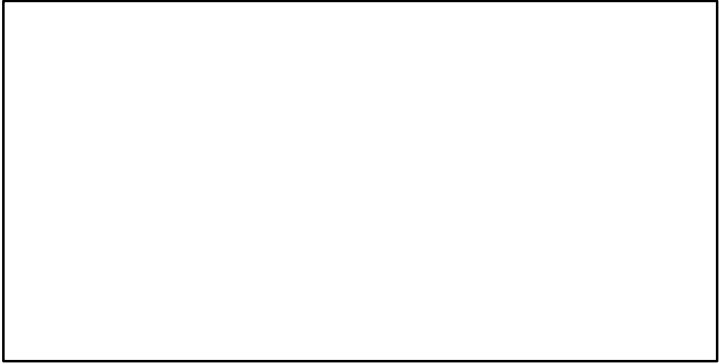
TAC\*, Cpair\*, Cadv\*



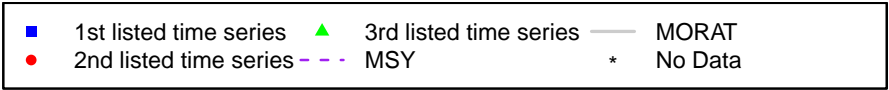
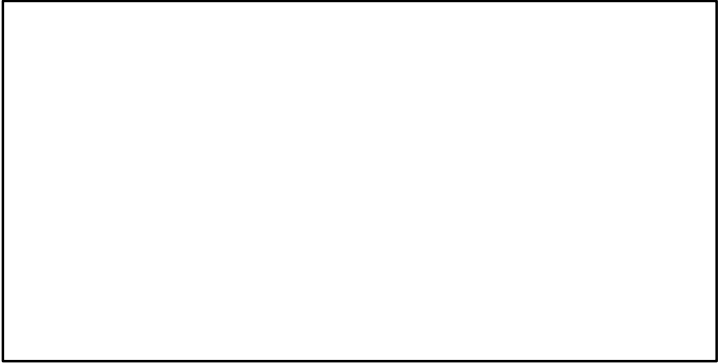
CPUE\*



EFFORT\*



CdivMSY\*



## Haddock North-East Arctic [HADNEAR]

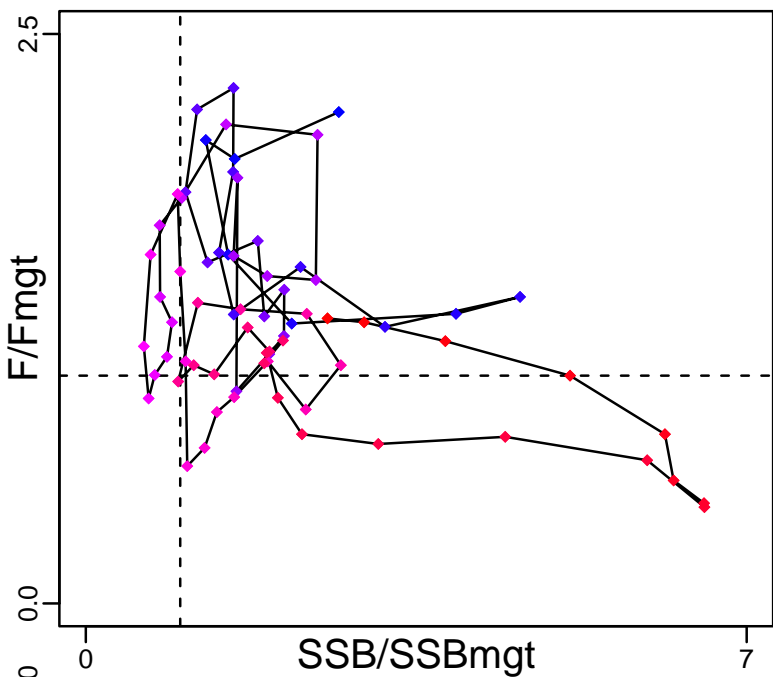
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	AFWG-HADNEAR-1947-2021-ICESIMP2022
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2019, 2021, 2020

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	2021	80,000
<b>Fmgt</b>	Fmgt-1/yr	2021	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	2021	50,000
<b>Flim</b>	Flim-1/yr	2021	0.77
<b>ERlim</b>	-	-	-

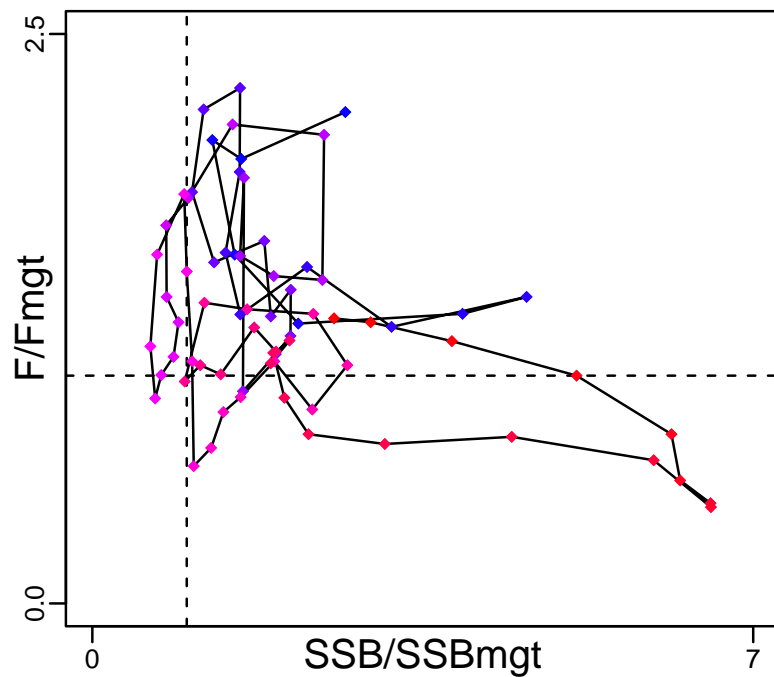
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2021	643,906	-	-
<b>SSB</b>	SSB-MT	2021	199,478	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	158,028,000	-	3
<b>F</b>	F-1/yr	2021	0.438	-	4 to 7
<b>ER</b>	ER-calc-ratio	2021	0.253	-	-
<b>TC</b>	TC-MT	2021	182,468		
<b>TL</b>	TL-MT	2021	182,468		
<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	2021	2.493		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	1.251		
<b>ER/ERmgt</b>	-	-	-		

# Haddock North-East Arctic [HADNEAR]

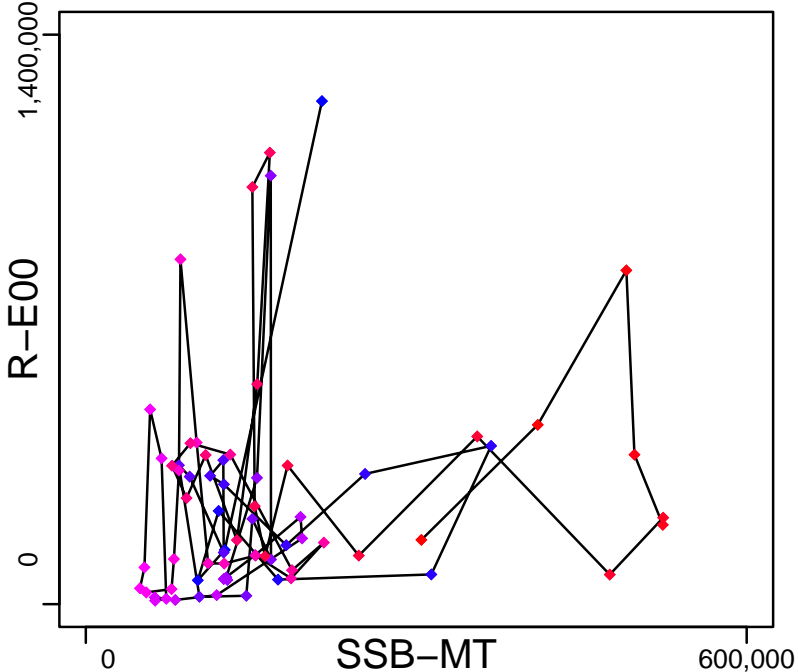
Kobe MSYpref (1947–2021–ICESIMP2022)



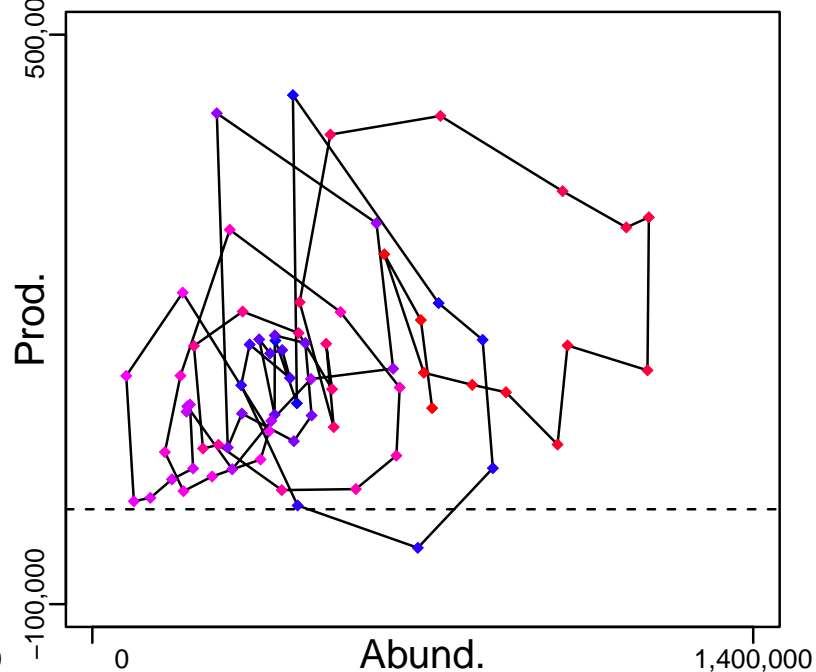
Kobe MGTpref (1947–2021–ICESIMP2022)



Spawner Recruit (1947–2021–ICESIMP2022)

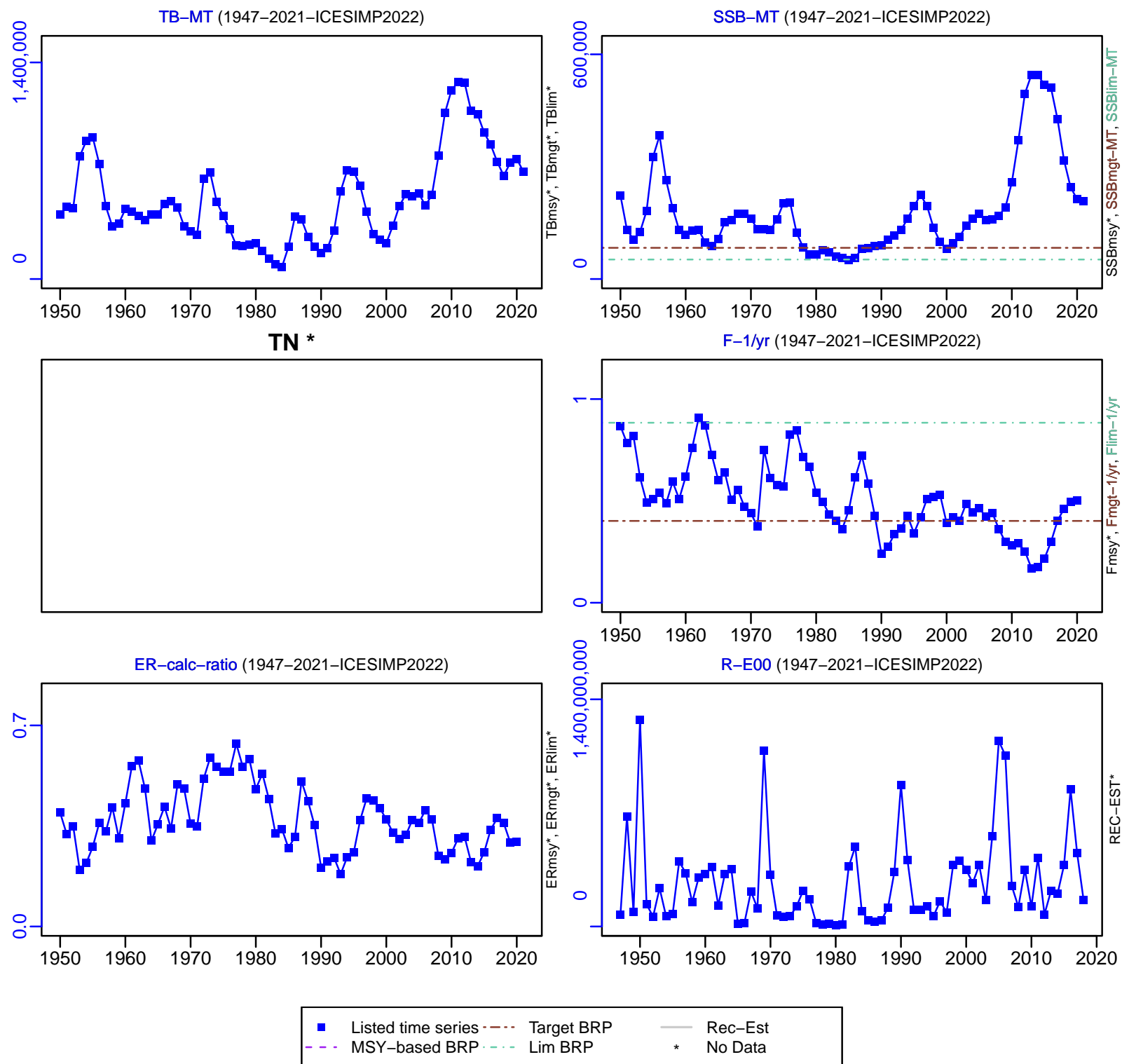


Production (1947–2021–ICESIMP2022)



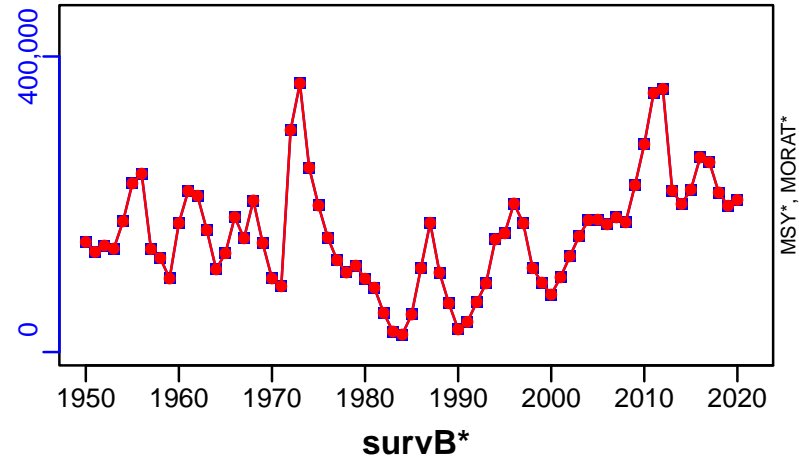
◆ Start Year ◆ End Year \* No Data

# Haddock North-East Arctic [HADNEAR]

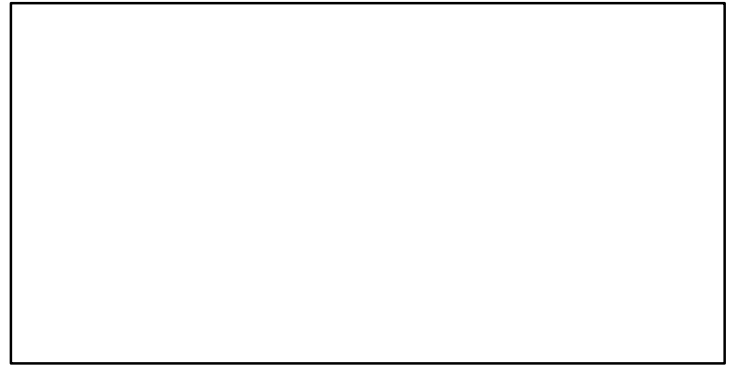


# Haddock North–East Arctic [HADNEAR]

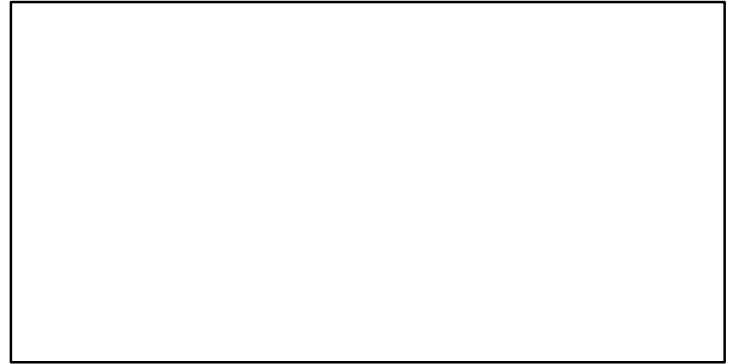
TC–MT, TL–MT, RecC\* (1947–2021–ICESIMP2022)



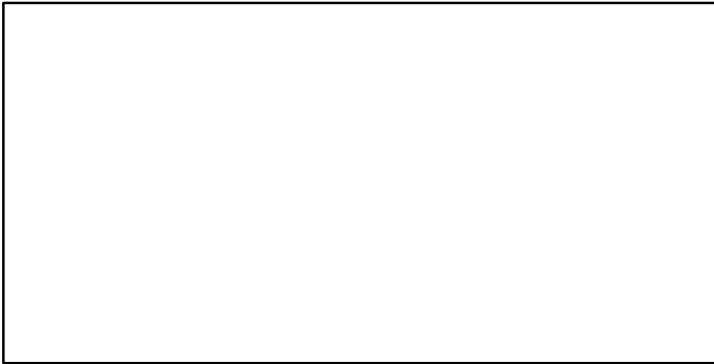
TAC\*, Cpair\*, Cadv\*



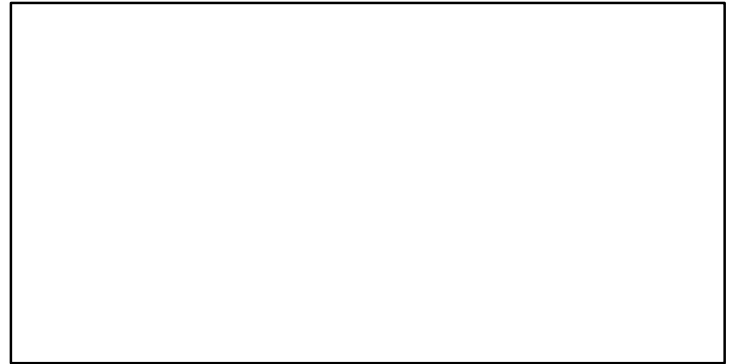
CPUE\*



EFFORT\*



CdivMSY\*



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

## Herring Iceland (Summer spawners) [HERRIsum]

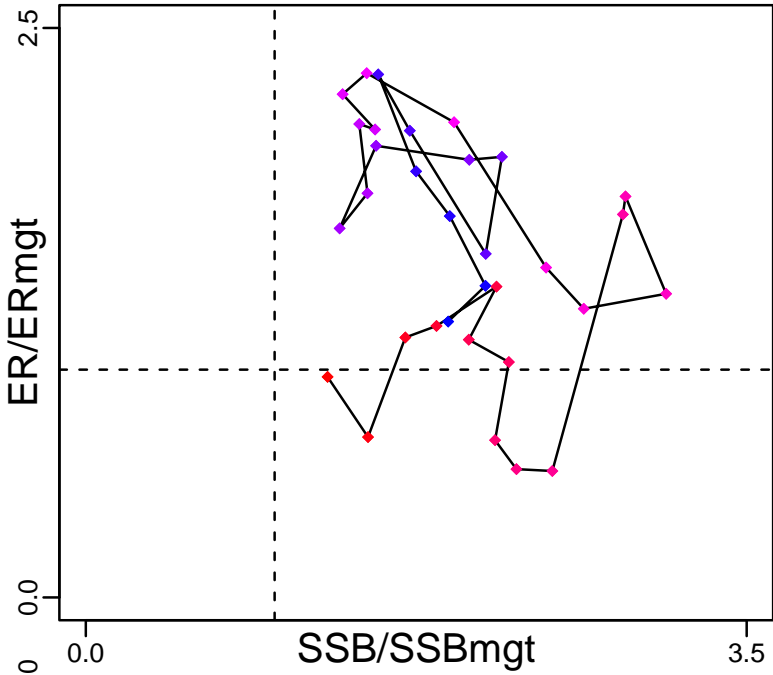
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	NWWG-HERRIsum-1987-2021-ICESIMP2021-2
<b>Area</b>	Iceland (Summer spawners)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2011, 2013, 2014, 2016, 2017, 2018, 2019, 2015, 2021

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.22
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	270,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.22
<b>ERmgt</b>	ERmgt-ratio	2019	0.15
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	$2 \times 10^5$
<b>Flim</b>	Flim-1/yr	2018	0.61
<b>ERlim</b>	-	-	-

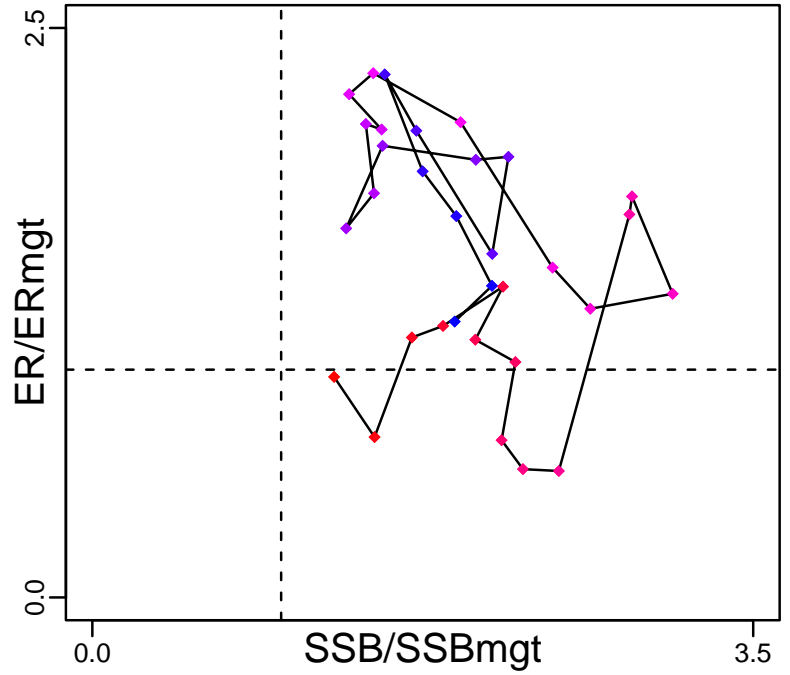
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	438,000	Both	3+
<b>SSB</b>	SSB-MT	2021	377,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	$5.72 \times 10^8$	-	3
<b>F</b>	F-1/yr	2019	0.175	-	5 to 10
<b>ER</b>	ER-ratio	2021	0.14	-	-
<b>TC</b>	TC-MT	2021	36,100		
<b>TL</b>	TL-MT	2021	36,100		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.995		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	1.396		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.995		
<b>ER/ERmgt</b>	-	-	-		

# Herring Iceland (Summer spawners) [HERRIsum]

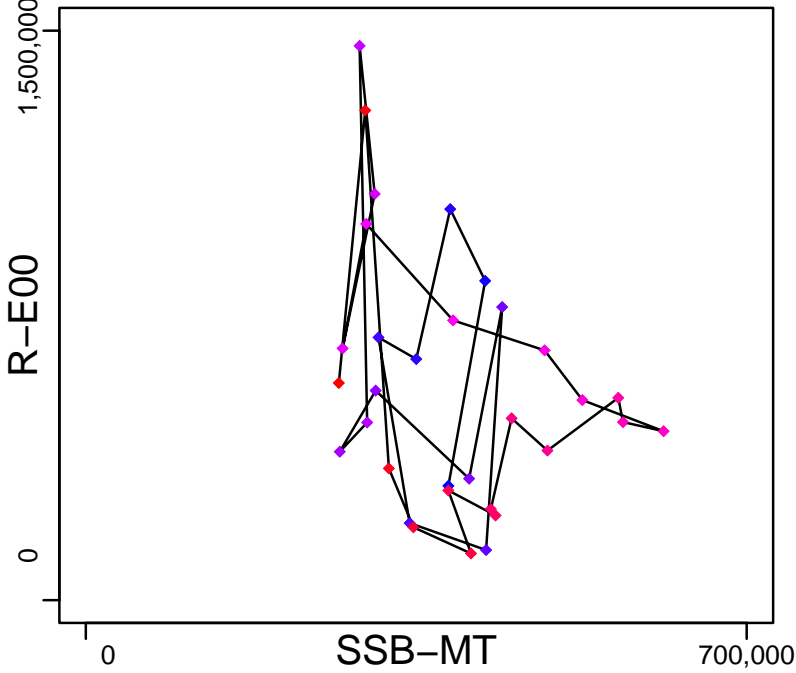
Kobe MSYpref (1984–2019–ICESIMP2021)



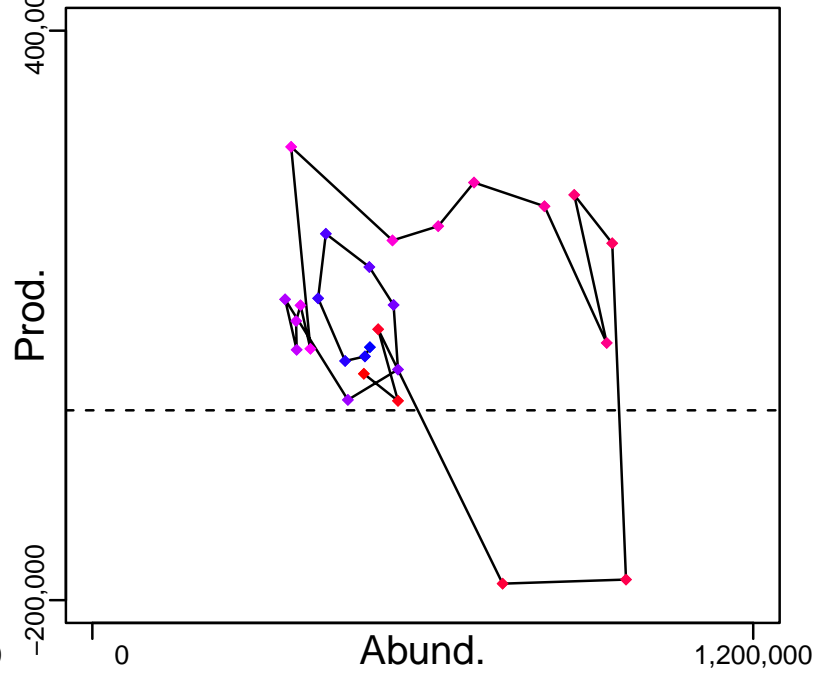
Kobe MGTpref (1984–2019–ICESIMP2021)



Spawner Recruit (1987–2021–ICESIMP2021–2)



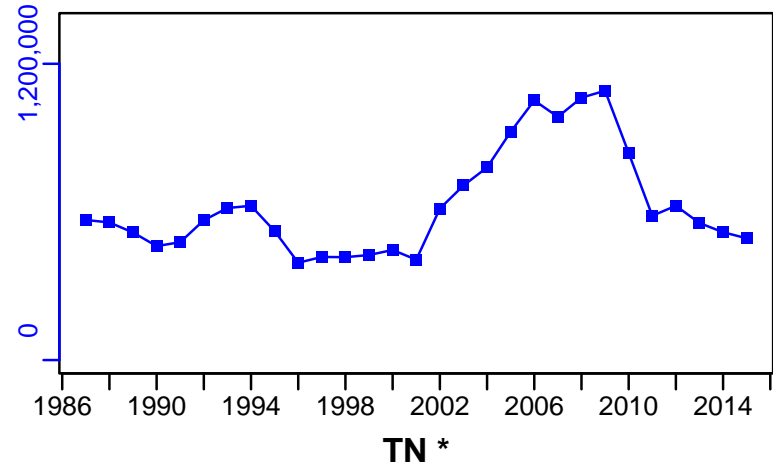
Production (1987–2015–ICESIMP2016)



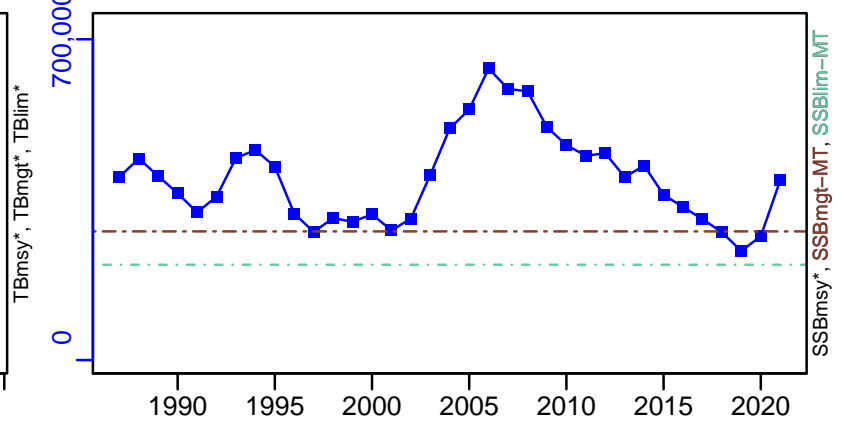
◆ Start Year ◆ End Year \* No Data

# Herring Iceland (Summer spawners) [HERRIsum]

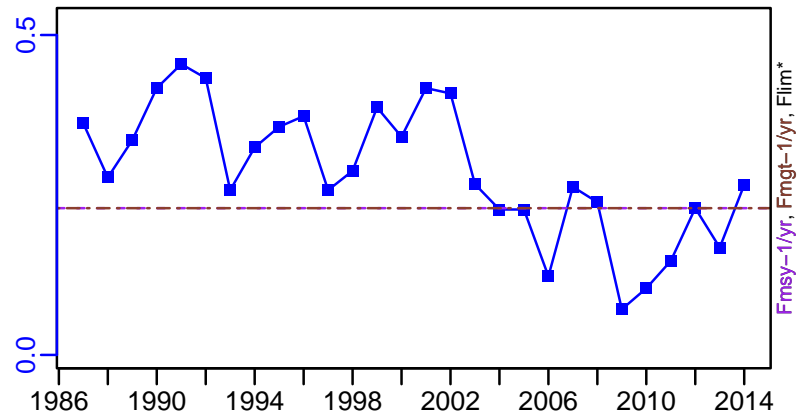
TB-MT (1987–2015–ICESIMP2016)



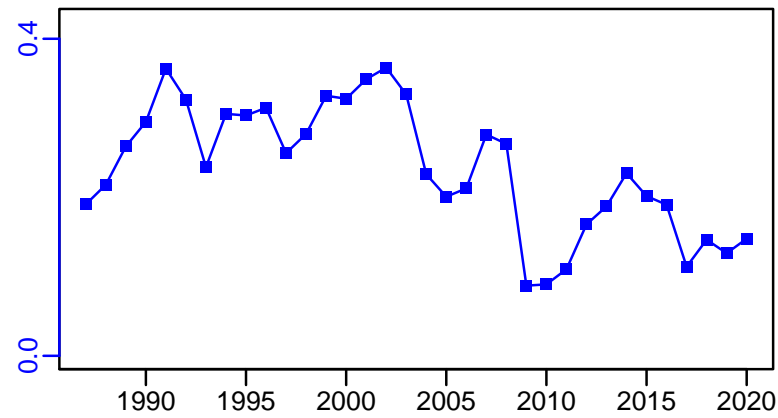
SSB-MT (1987–2021–ICESIMP2021-2)



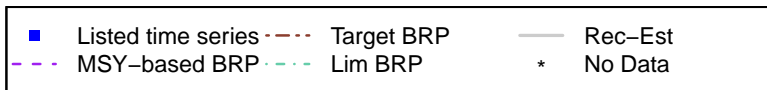
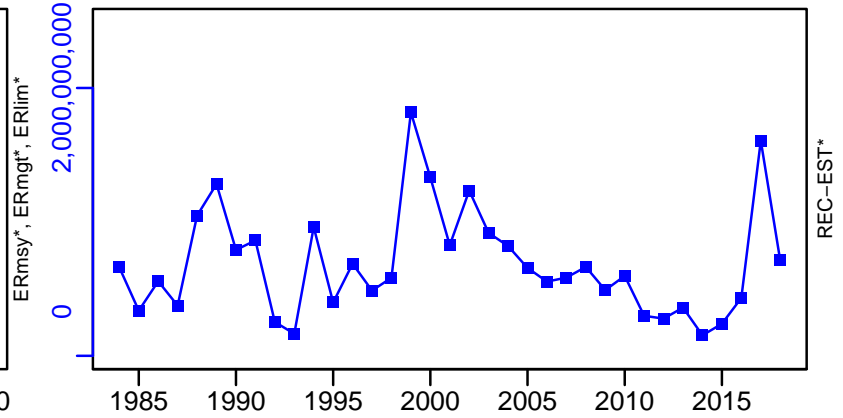
F-1/yr (1987–2015–ICESIMP2016)



ER-ratio (1987–2021–ICESIMP2021-2)



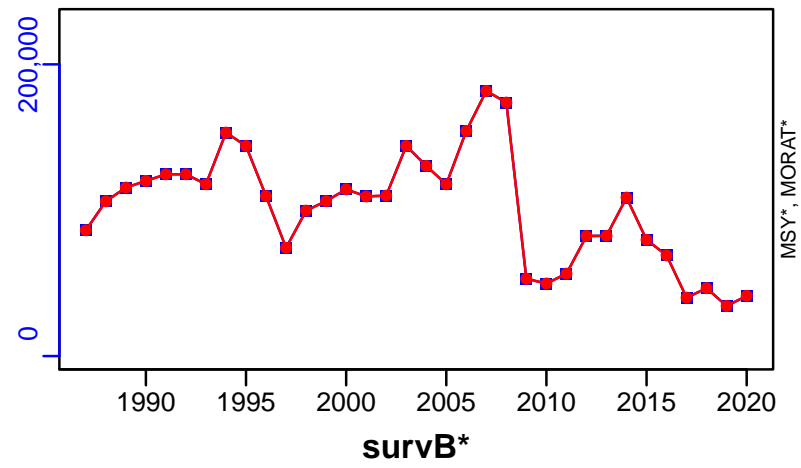
R-E00 (1987–2021–ICESIMP2021-2)



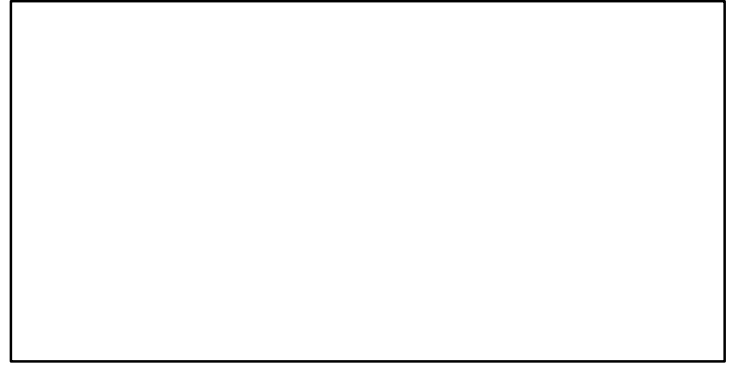


# Herring Iceland (Summer spawners) [HERRIsum]

TC-MT, TL-MT, RecC\* (1987–2021–ICESIMP2021–2)



TAC\*, Cpair\*, Cadv\*



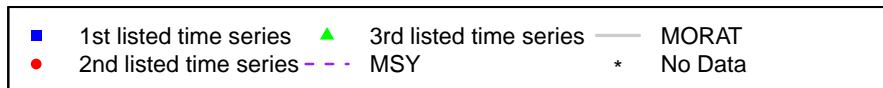
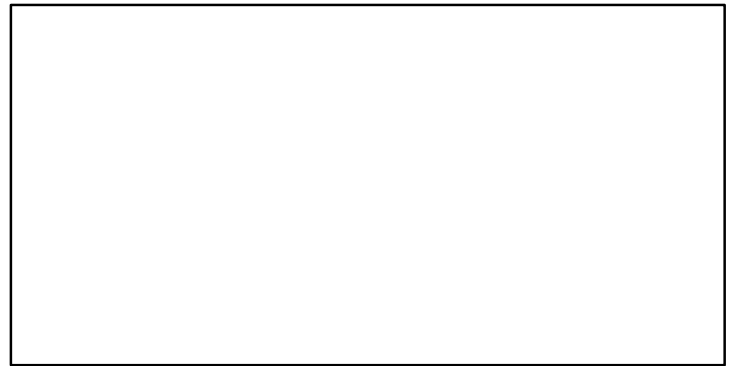
CPUE\*



EFFORT\*



CdivMSY\*



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

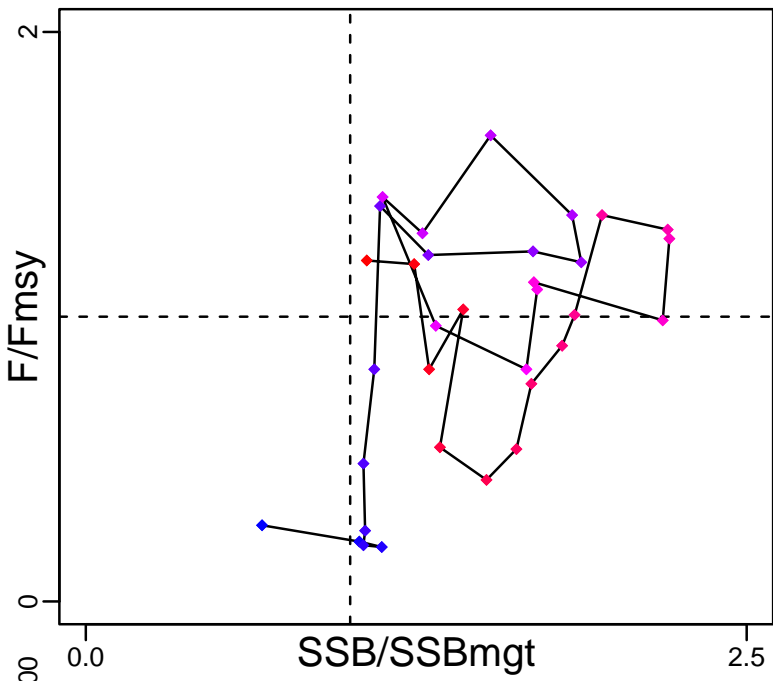
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGWIDE-HERRNORSS-1988-2021-ICESIMP2021-2
Area	ICES 1-2-4a-5-14a (Norwegian Spring Spawners)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 2016, 2017, 2019, 2013, 2015, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2021	0.157
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	3,180,000
Fmgt	Fmgt-1/yr	2021	0.157
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	2,500,000
Flim	Flim-1/yr	2021	0.291
ERlim	-	-	-

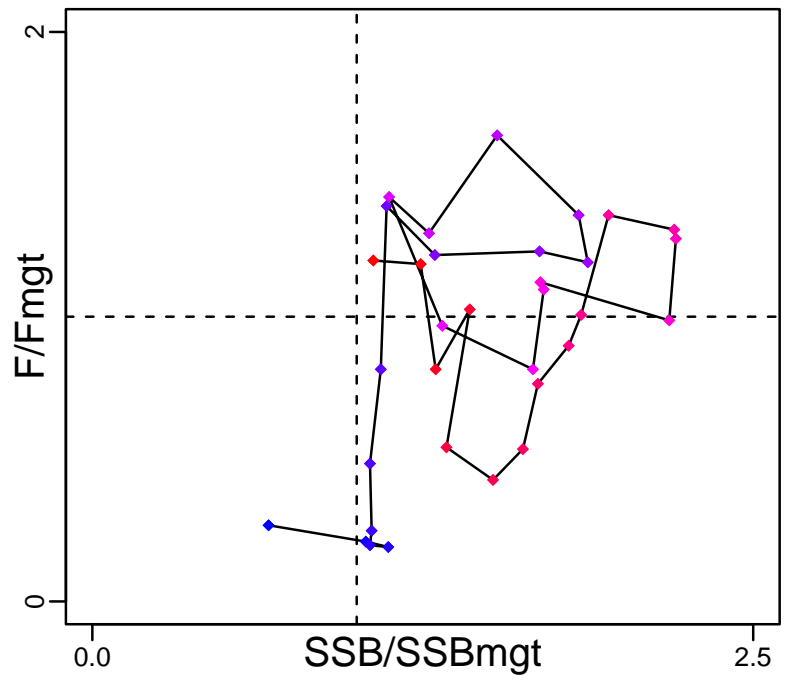
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5,317,000	-	-
SSB	SSB-MT	2021	3,770,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	$1.93 \times 10^9$	-	2
F	F-1/yr	2021	0.188	-	-
ER	ER-calc-ratio	2019	0.105	-	-
TC	TC-MT	2021	721,000		
TL	TL-MT	2021	721,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2021	1.197		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	1.186		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	1.197		
ER/ERmgt	-	-	-		

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

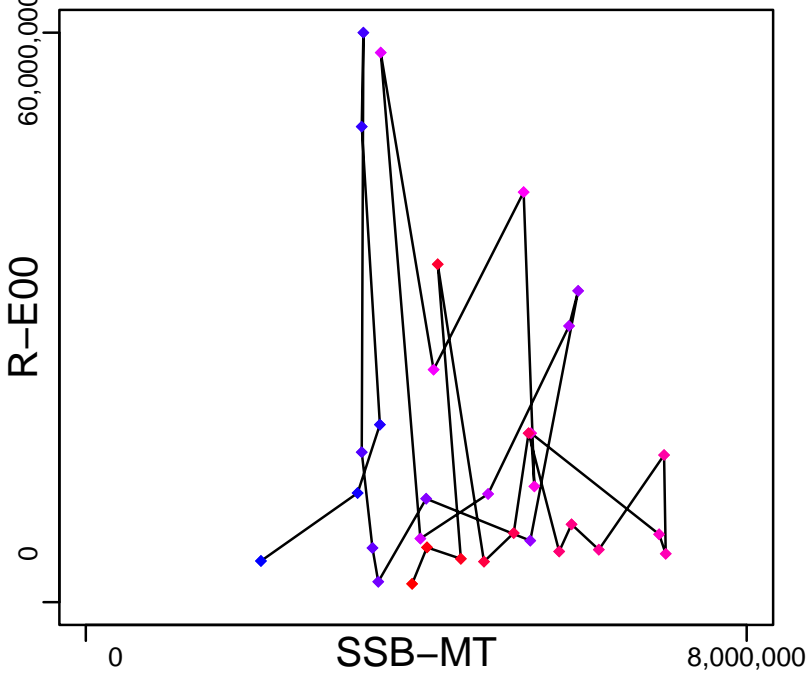
Kobe MSYpref (1988-2021-ICESIMP2021-2)



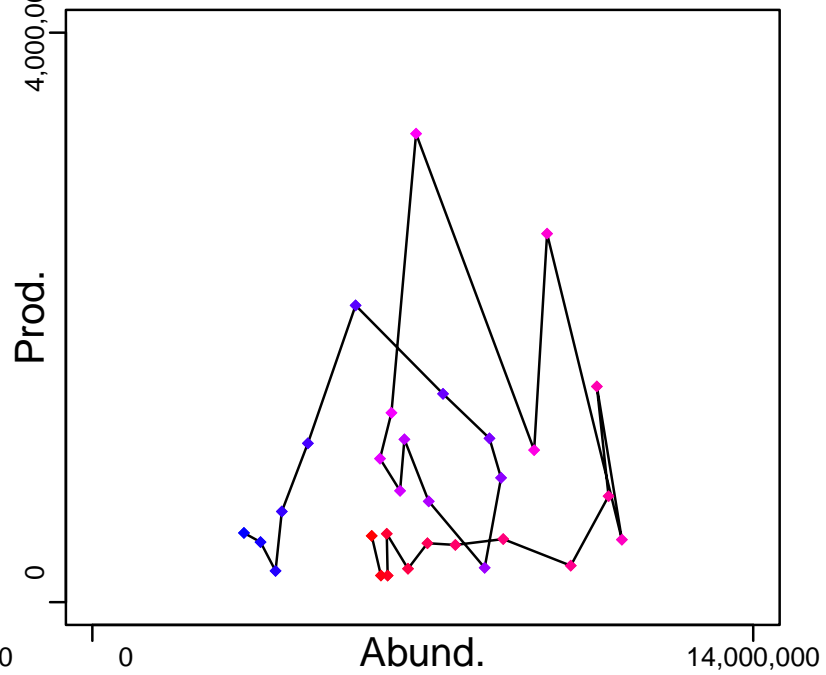
Kobe MGTpref (1988-2021-ICESIMP2021-2)



Spawner Recruit (1988-2021-ICESIMP2021-2)



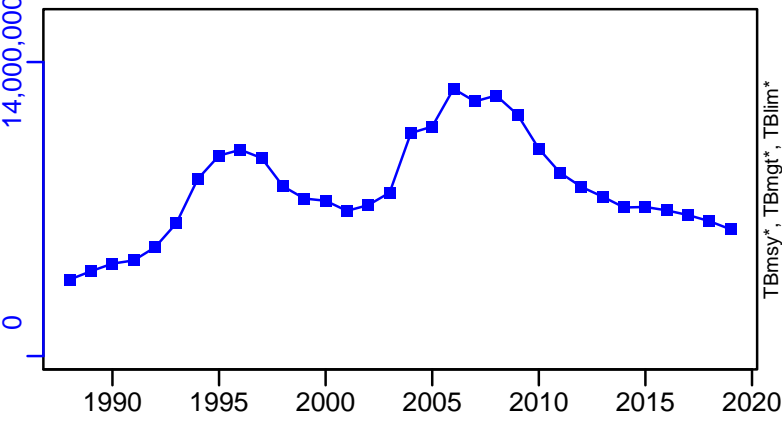
Production (1986-2019-ICESIMP2021)



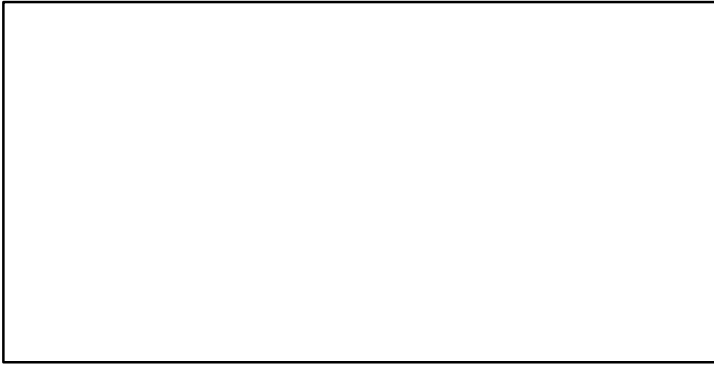
◆ Start Year ◆ End Year \* No Data

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

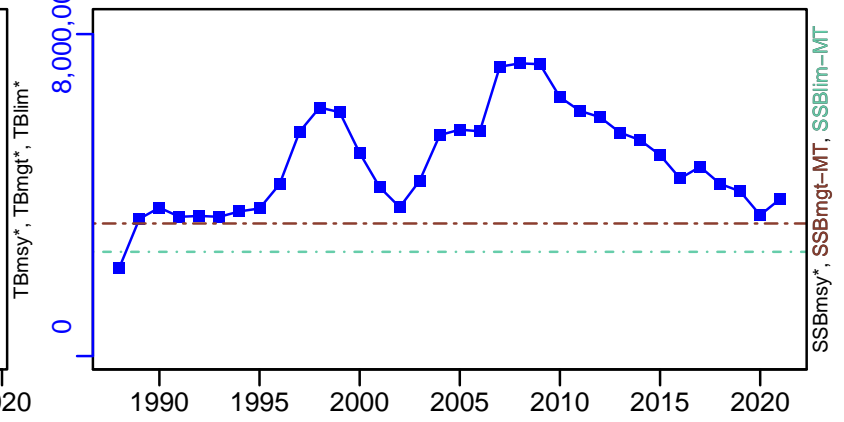
TB-MT (1986-2019-ICESIMP2021)



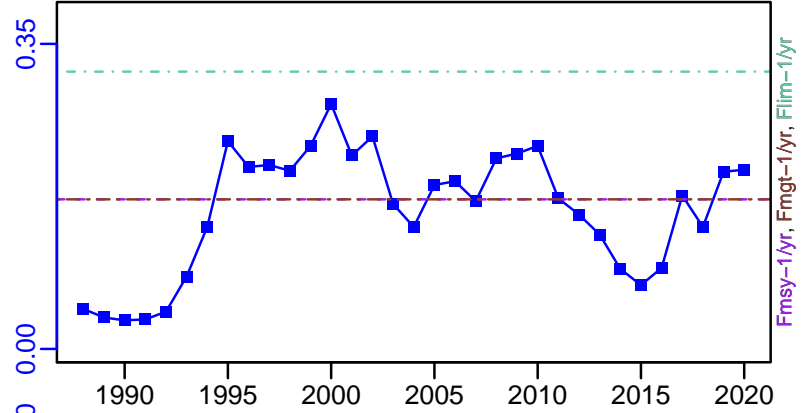
TN \*



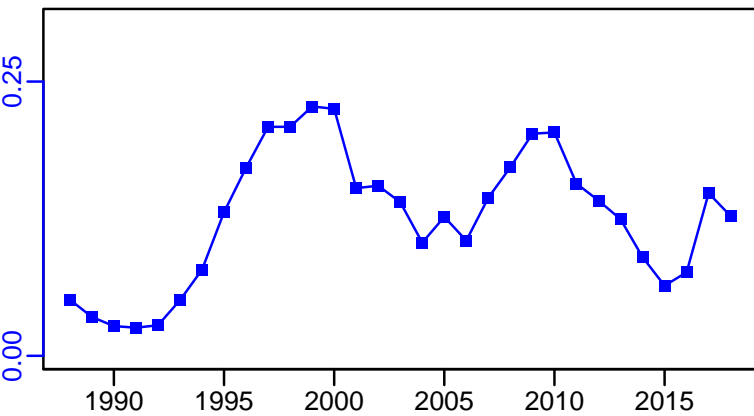
SSB-MT (1988-2021-ICESIMP2021-2)



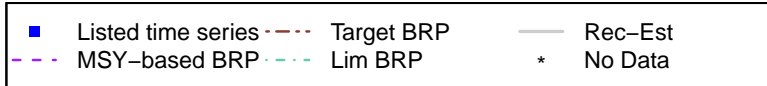
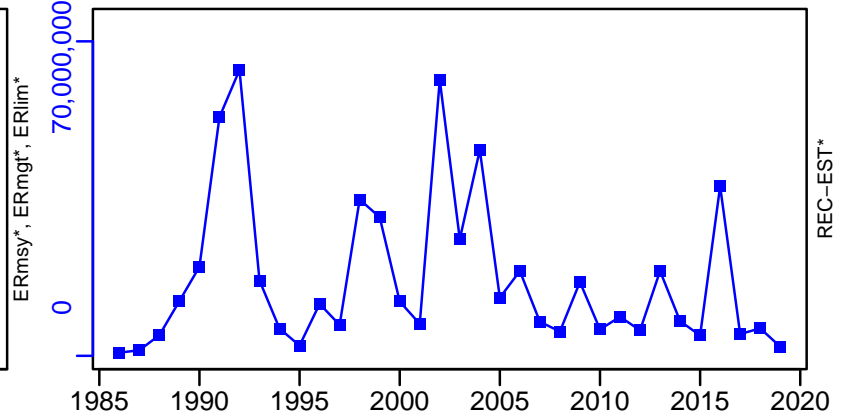
F-1/yr (1988-2021-ICESIMP2021-2)



ER-calc-ratio (1986-2019-ICESIMP2021)

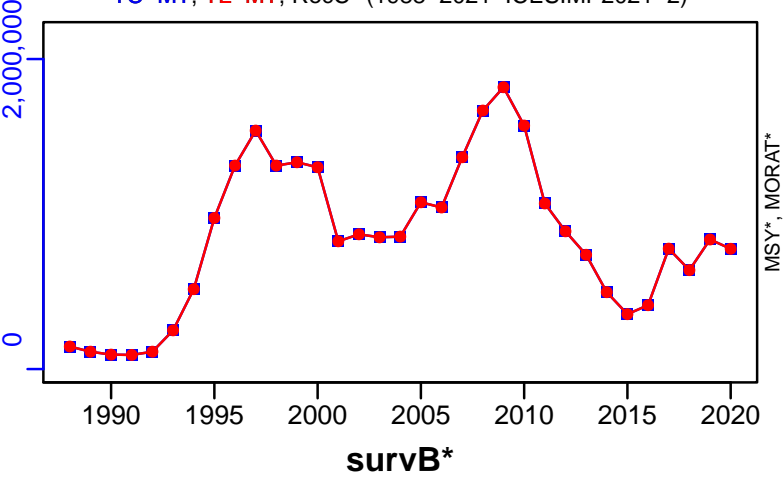


R-E00 (1988-2021-ICESIMP2021-2)

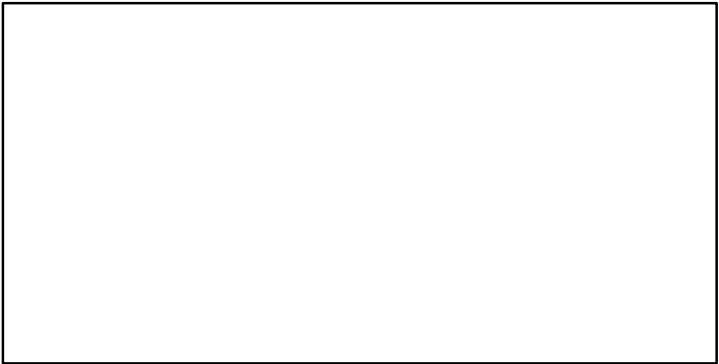


Herring ICES 1-2-4a-5-14a (Norwegian Spring Spawners) [HERRNORSS]

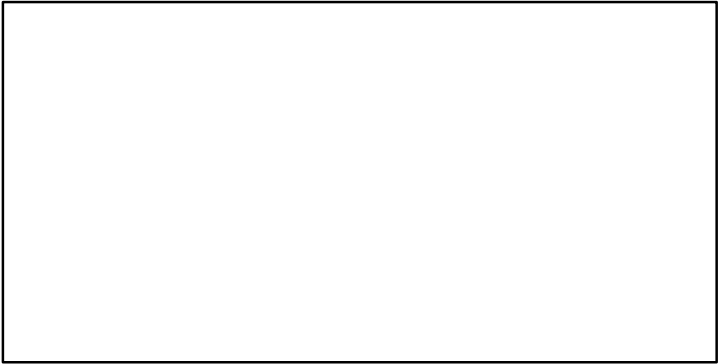
TC-MT, TL-MT, RecC\* (1988-2021-ICESIMP2021-2)



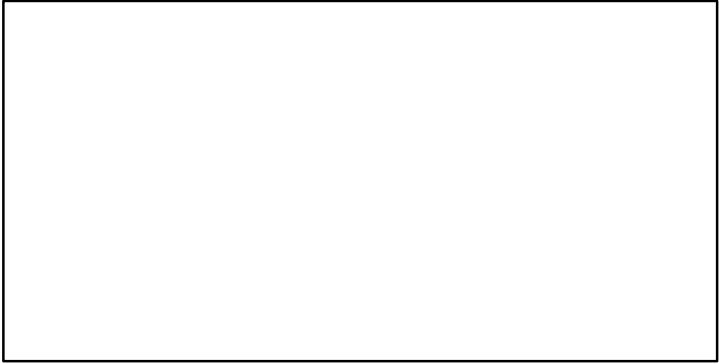
TAC\*, Cpair\*, Cadv\*



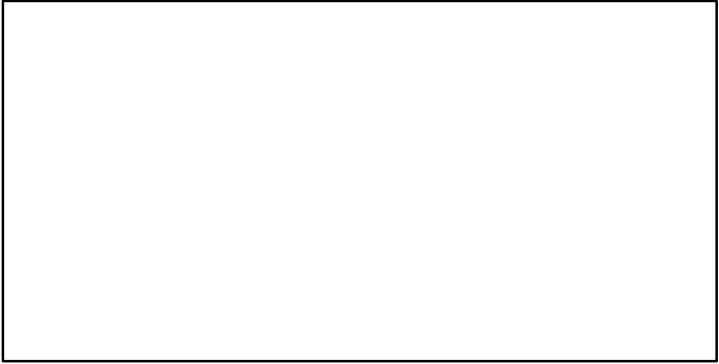
CPUE\*



EFFORT\*



CdivMSY\*



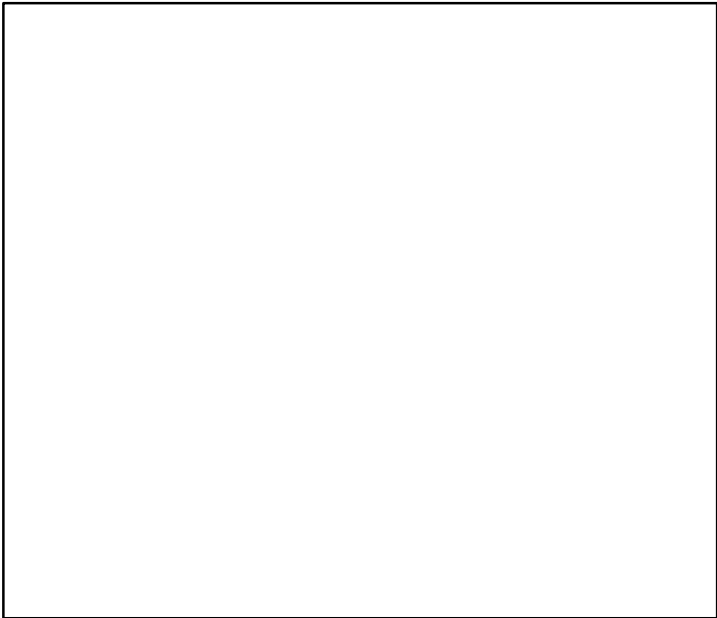
## Ling North-East Arctic [LINGI-II]

Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGI-II-1988-2020-ICESIMP2021-2
<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, 2018, 2020

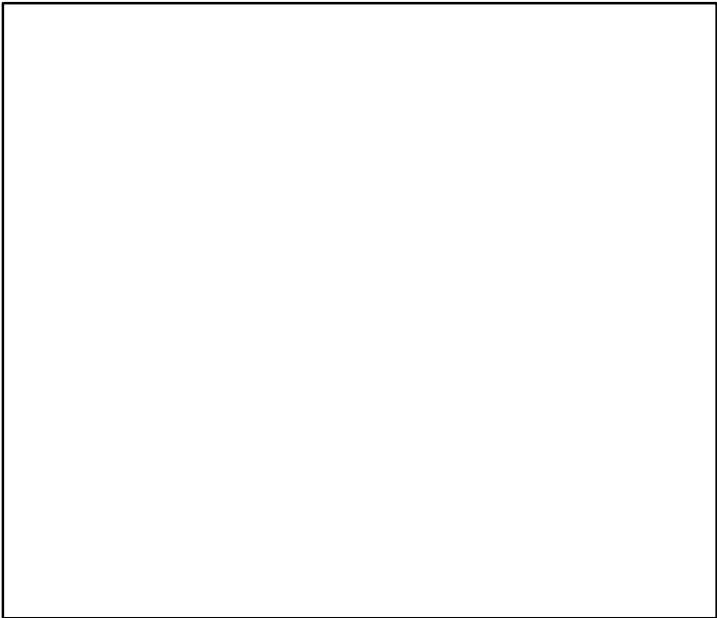
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	99	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	9560		
TL	TL-MT	2018	11,613		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

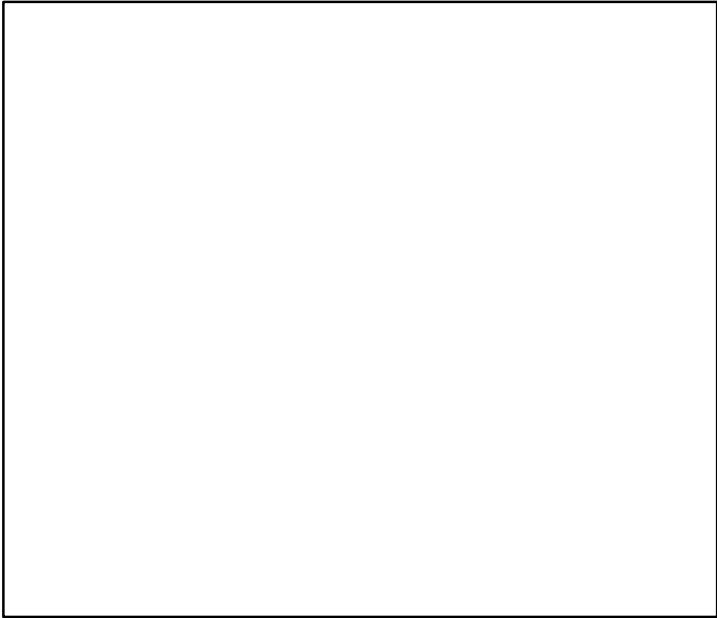
Kobe MSY\*



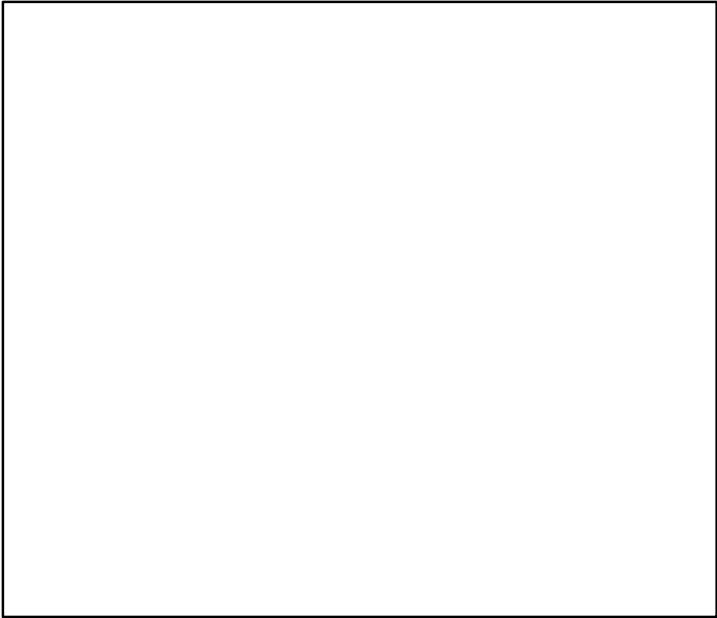
Kobe MGT\*



Spawner Recruit\*



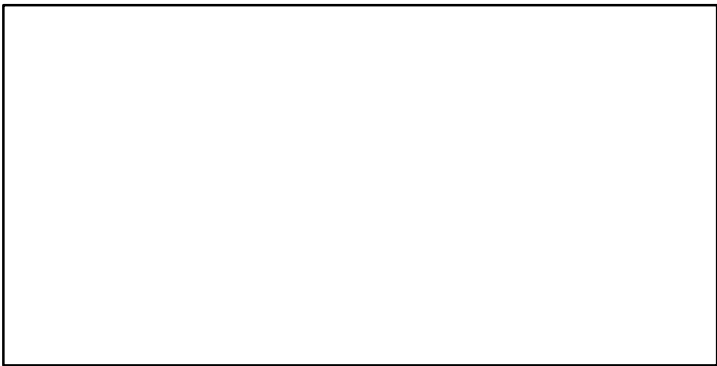
Production\*



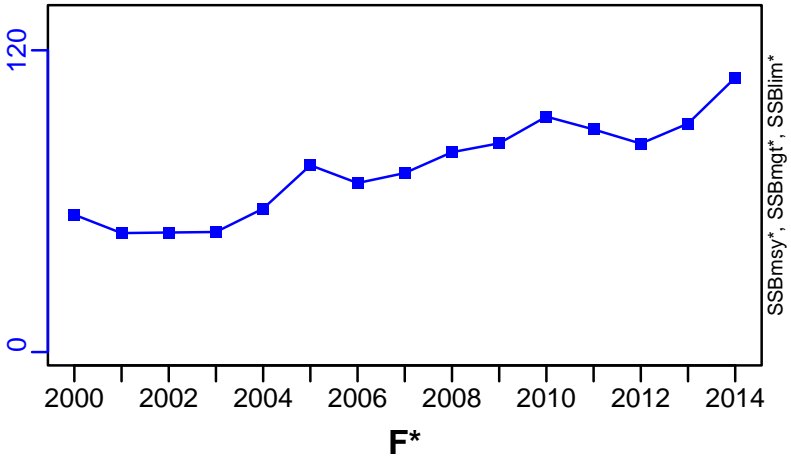
◆ Start Year   ◆ End Year   \* No Data

Ling North-East Arctic [LINGI-II]

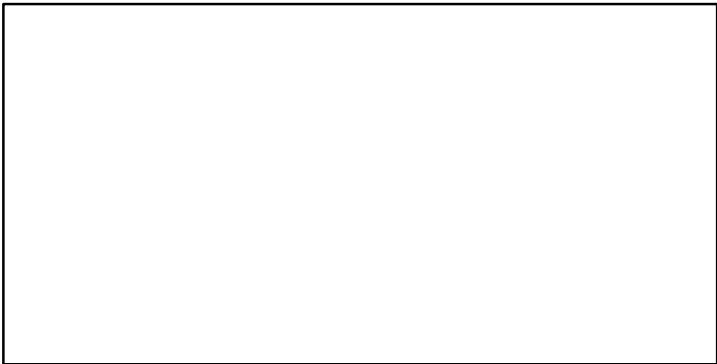
TB\*



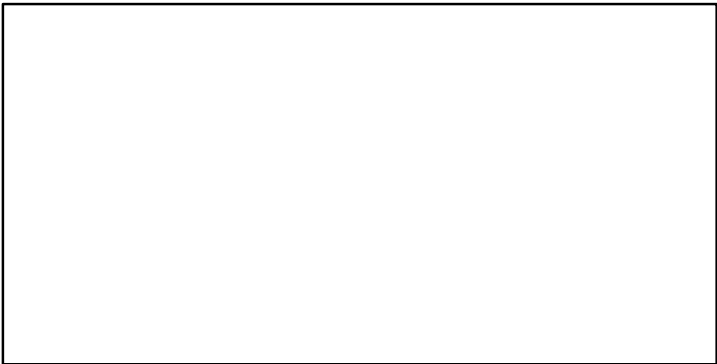
SSB-index (1988–2014–ICESIMP2018)



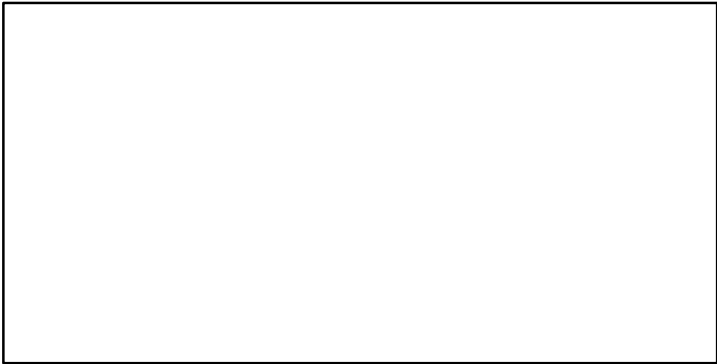
TN \*



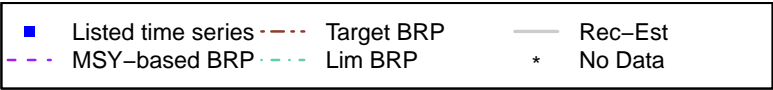
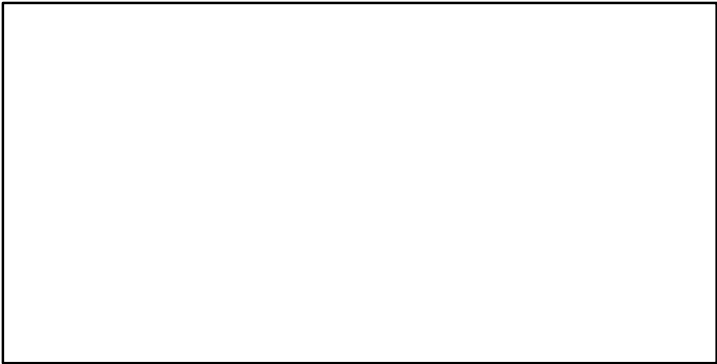
F\*



ER\*



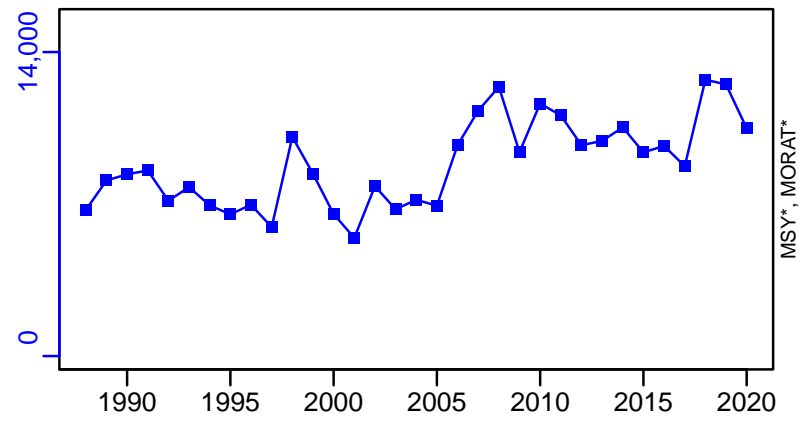
Recruits\*



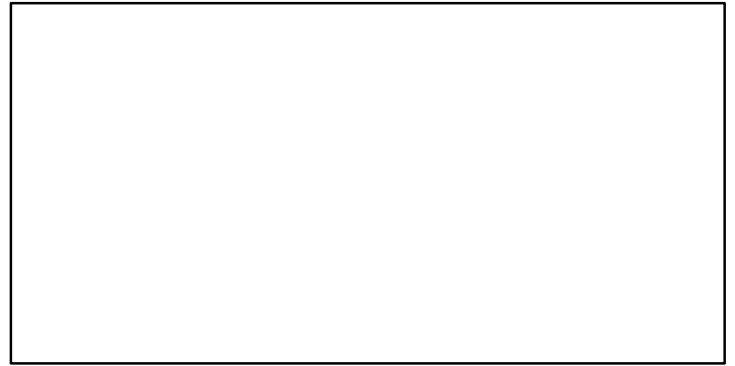


# Ling North-East Arctic [LINGI-II]

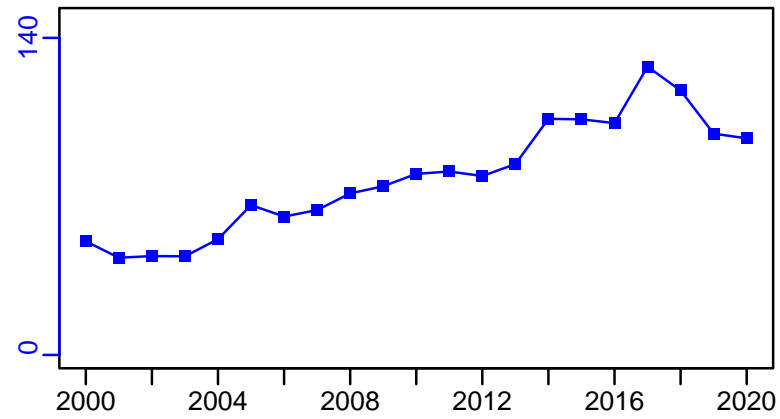
TC-MT, TL\*, RecC\* (1988-2020-ICESIMP2021-2)



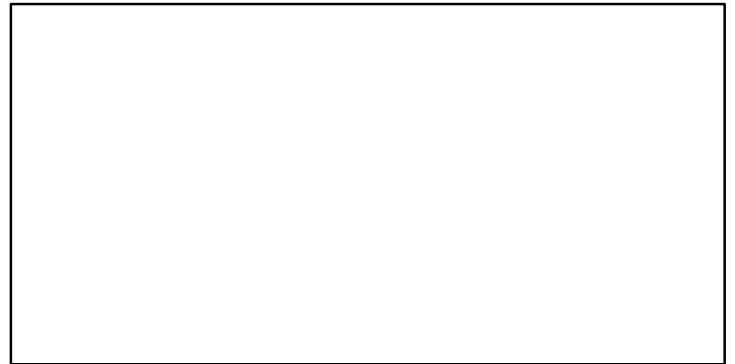
TAC\*, Cpair\*, Cadv\*



survB-index (1988-2020-ICESIMP2021-2)



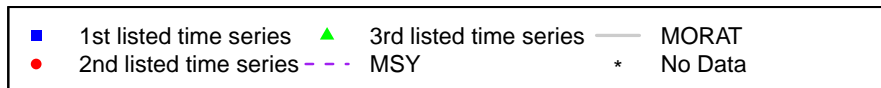
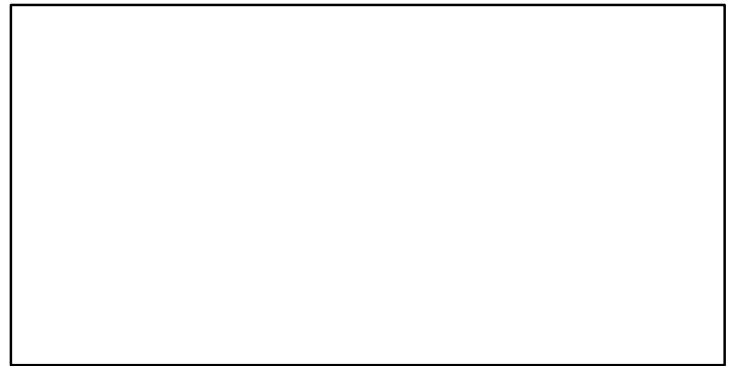
CPUE\*



EFFORT\*



CdivMSY\*



## Ling Iceland Grounds [LINGVa]

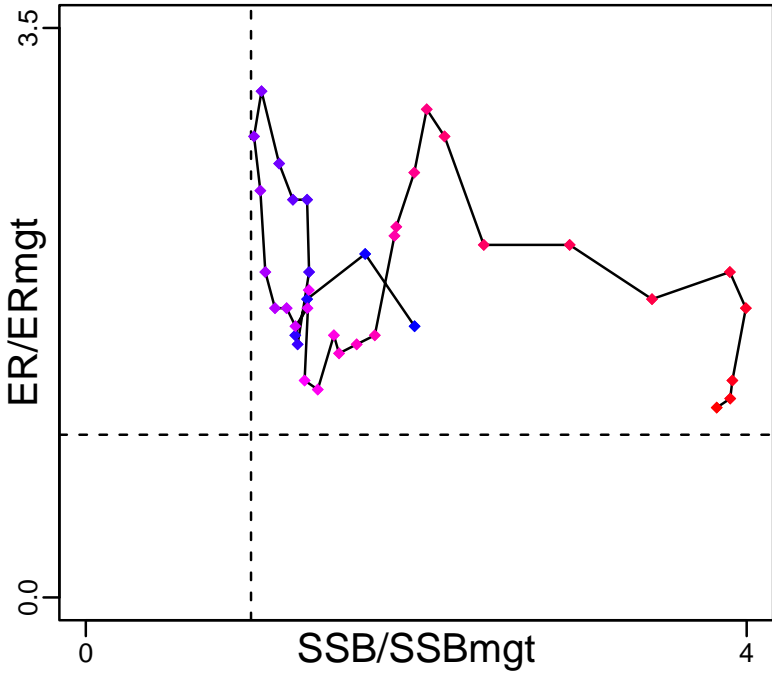
Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVa-1982-2021-ICESIMP2021-2
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 2017, 2018, 2019, 2015, 2016, 2020, 2021

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	2021	9930
<b>Fmgt</b>	Fmgt-1/yr	2016	0.24
<b>ERmgt</b>	ERmgt-ratio	2019	0.18
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	7090
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

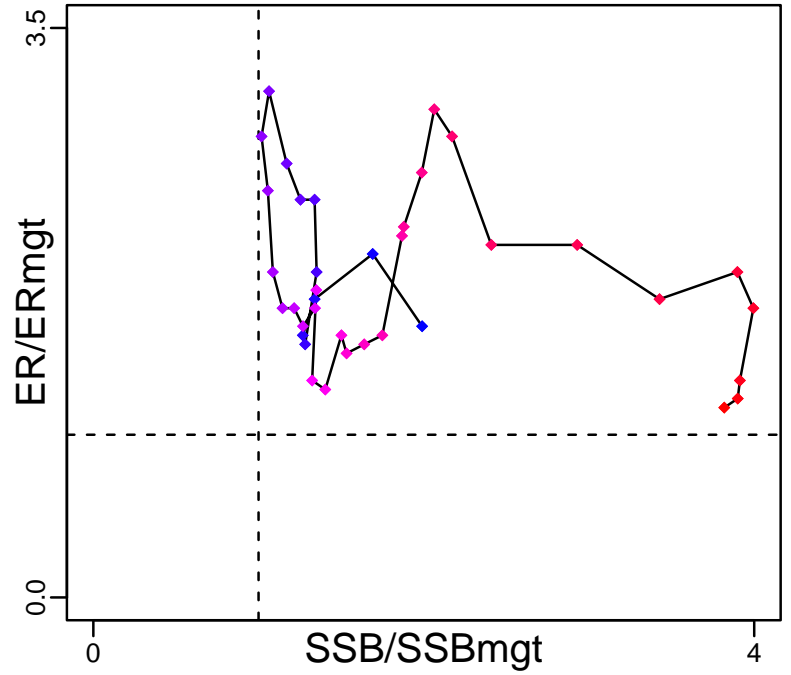
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	56,100	Both	-
<b>SSB</b>	SSB-MT	2021	25,700	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	3830	-	3
<b>F</b>	F-1/yr	2016	0.28	-	-
<b>ER</b>	ER-ratio	2021	0.264	-	-
<b>TC</b>	TC-MT	2021	7060		
<b>TL</b>	TL-MT	2021	7060		
<b>TB/TBmsy</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	2021	2.588		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.167		
<b>ER/ERmgt</b>	-	-	-		

# Ling Iceland Grounds [LINGVa]

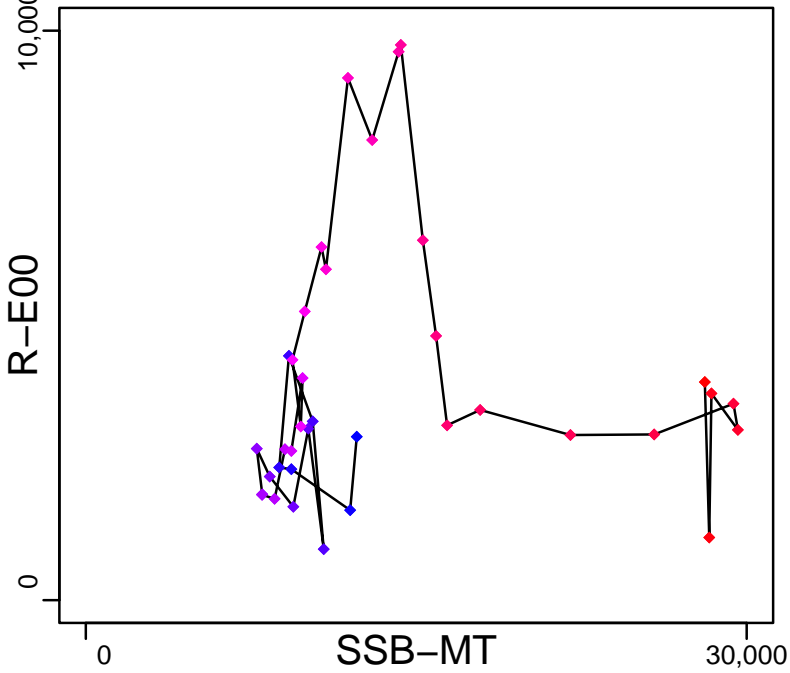
Kobe MSYpref (1979–2019–ICESIMP2021)



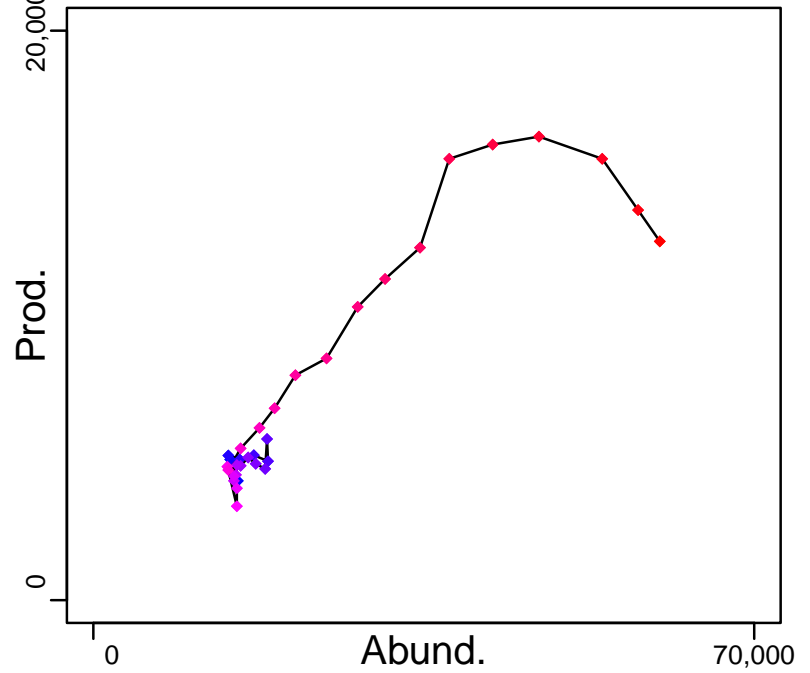
Kobe MGTpref (1979–2019–ICESIMP2021)



Spawner Recruit (1982–2021–ICESIMP2021–2)

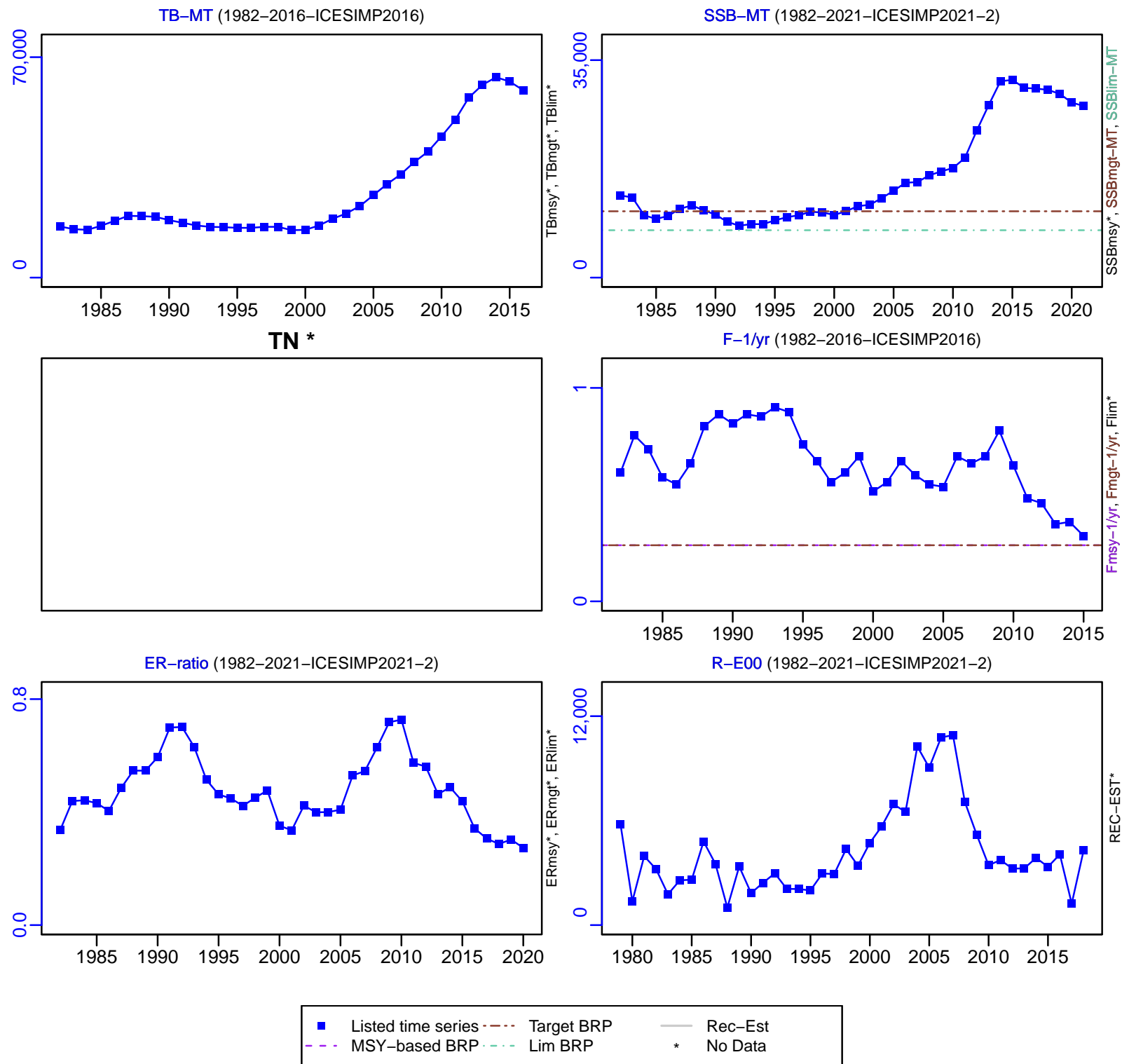


Production (1982–2016–ICESIMP2016)



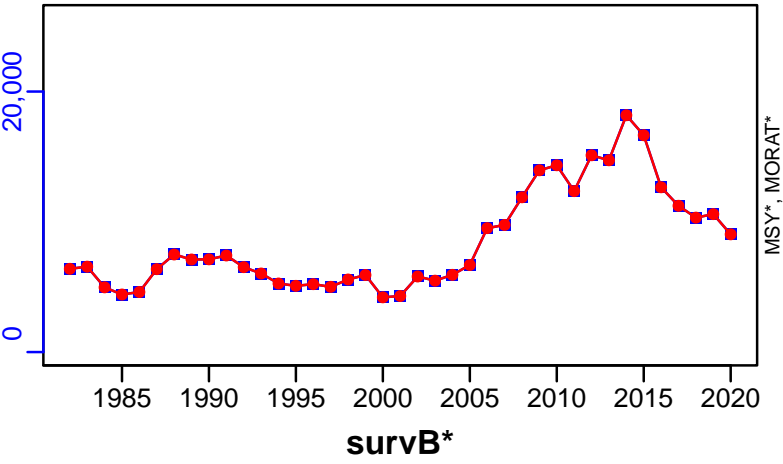
◆ Start Year ◆ End Year \* No Data

# Ling Iceland Grounds [LINGVa]



# Ling Iceland Grounds [LINGVa]

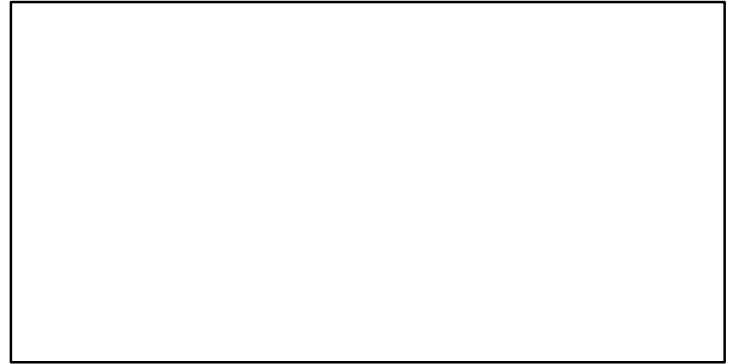
TC-MT, TL-MT, RecC\* (1982-2021-ICESIMP2021-2)



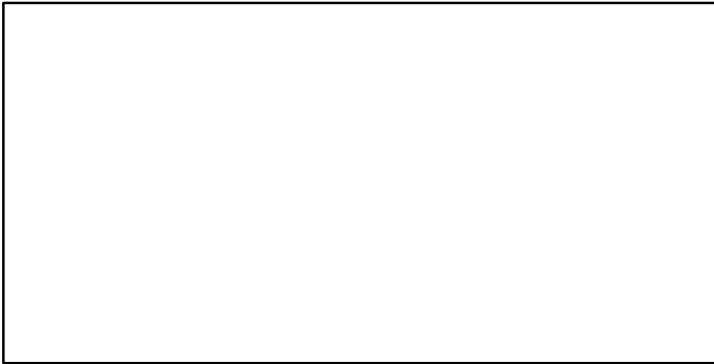
TAC\*, Cpair\*, Cadv\*



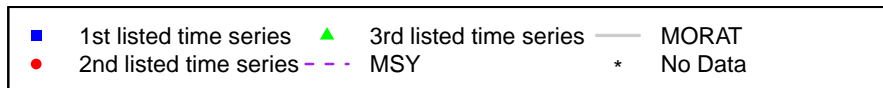
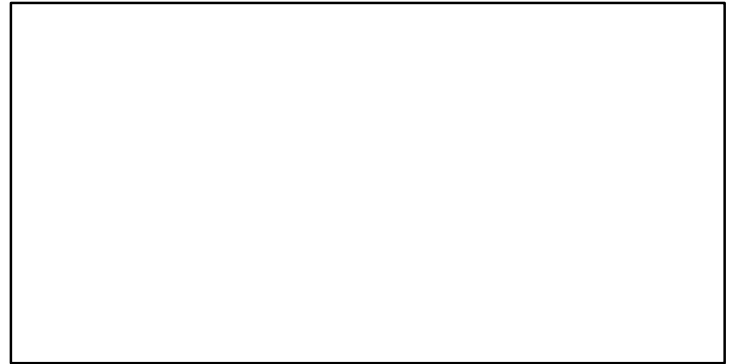
CPUE\*



EFFORT\*



CdivMSY\*



## Ling Faroe Grounds [LINGVb]

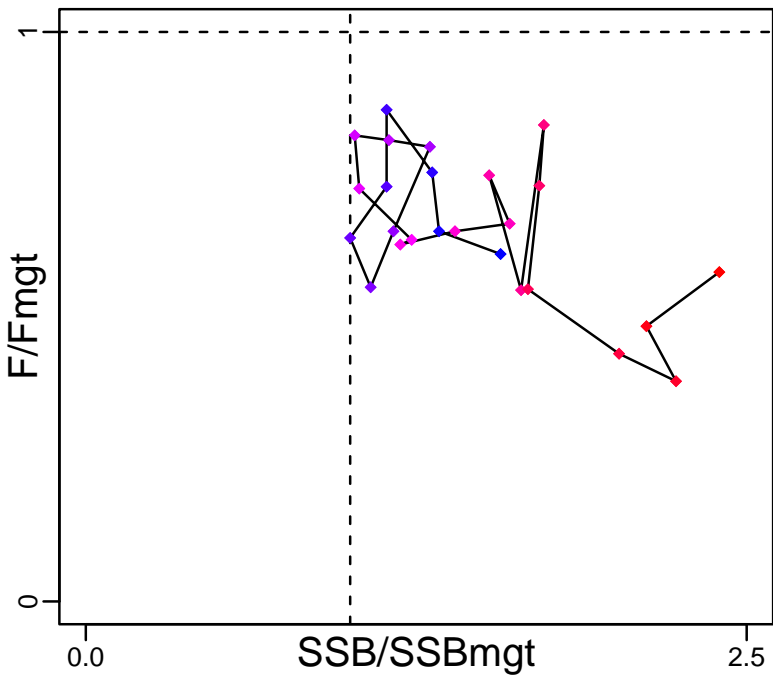
Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVb-1988-2021-ICESIMP2021-2
<b>Area</b>	Faroe Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 2016, 2018, 2021

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	2021	11,600
<b>Fmgt</b>	Fmgt-1/yr	2021	0.6
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2021	9340
<b>Flim</b>	Flim-1/yr	2021	0.85
<b>ERlim</b>	-	-	-

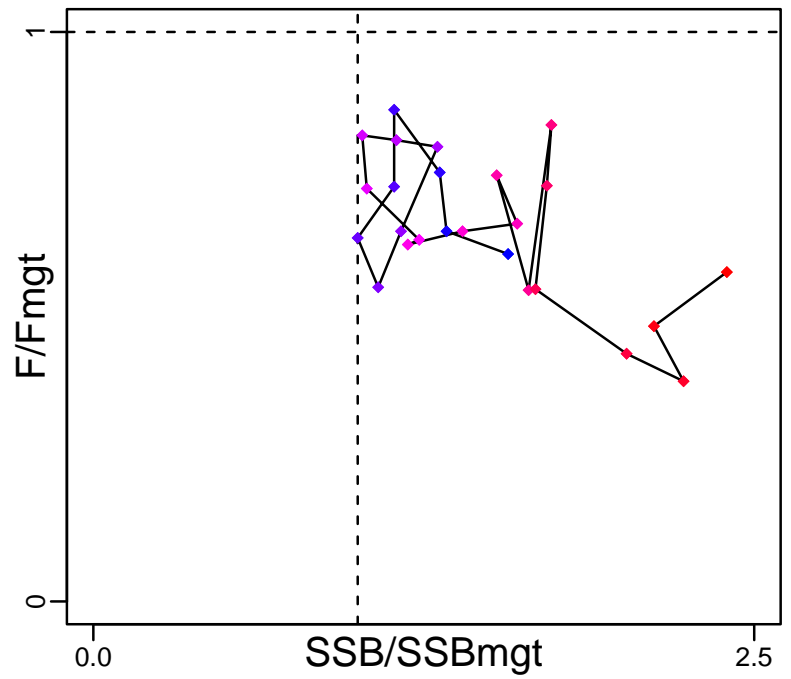
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2021	27,800	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	2940	-	3
<b>F</b>	F-1/yr	2021	0.347	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	-	-	-		
<b>TL</b>	TL-MT	2021	9430		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	2.397		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	0.578		
<b>ER/ERmgt</b>	-	-	-		

# Ling Faroe Grounds [LINGVb]

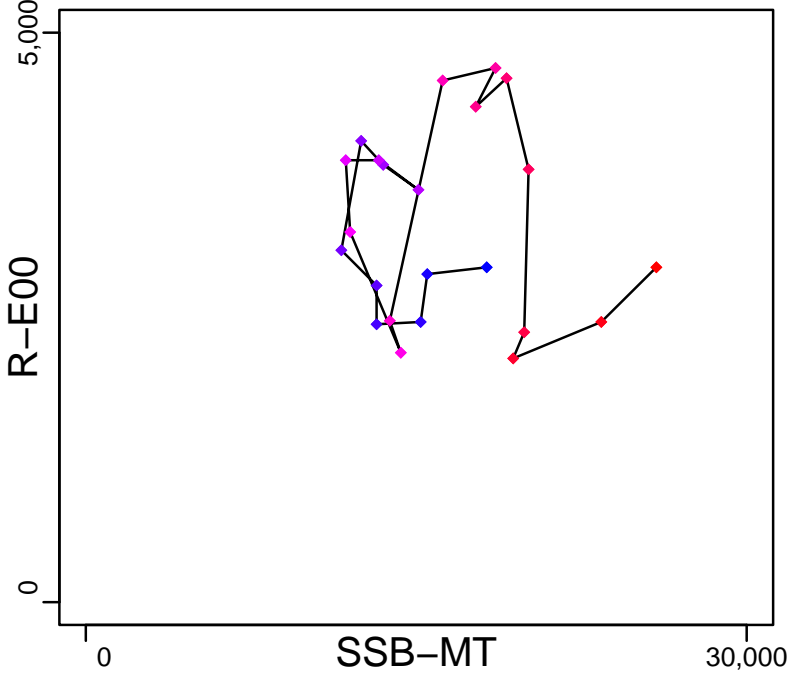
Kobe MSYpref (1988–2021–ICESIMP2021–2)



Kobe MGTpref (1988–2021–ICESIMP2021–2)



Spawner Recruit (1988–2021–ICESIMP2021–2)



Production\*



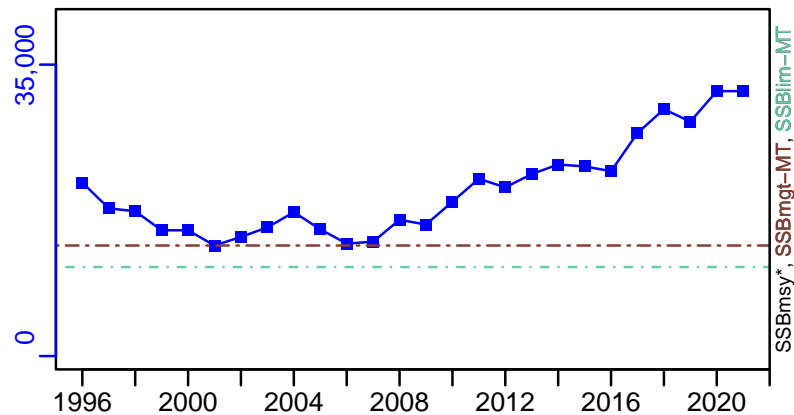
◆ Start Year ◆ End Year \* No Data

# Ling Faroe Grounds [LINGVb]

TB\*



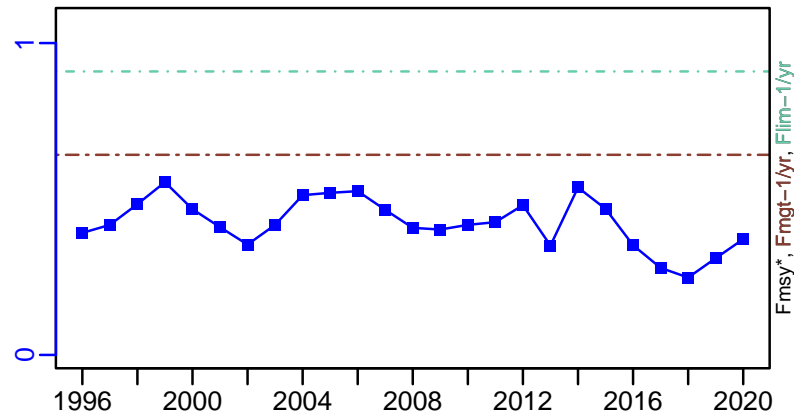
SSB-MT (1988-2021-ICESIMP2021-2)



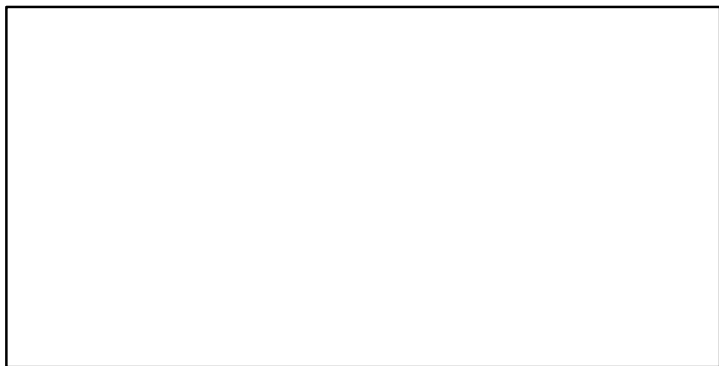
TN \*



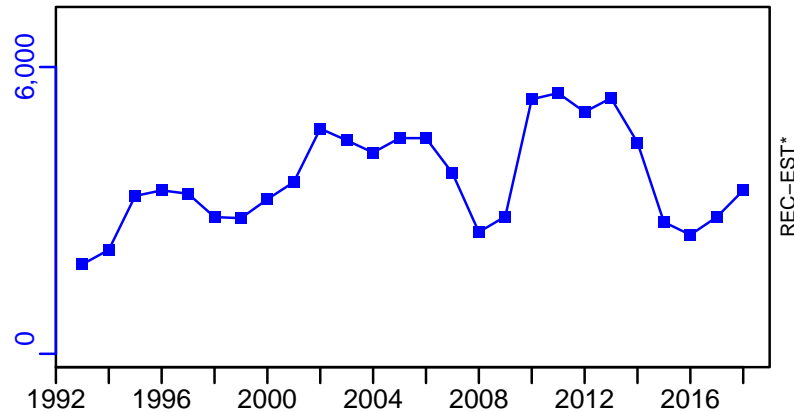
F-1/yr (1988-2021-ICESIMP2021-2)



ER\*



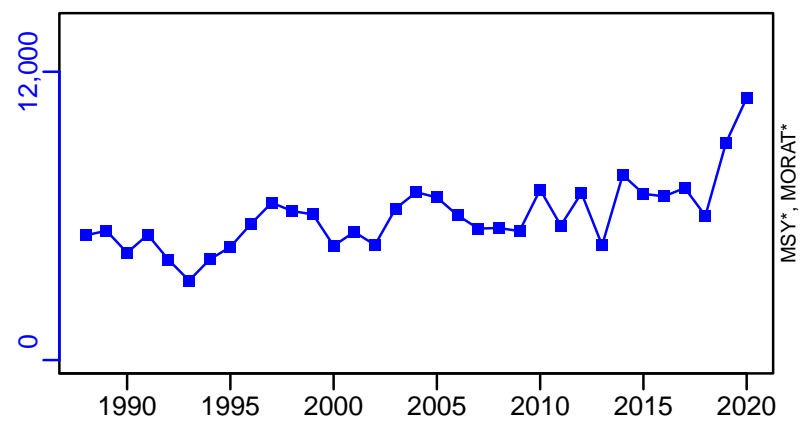
R-E00 (1988-2021-ICESIMP2021-2)



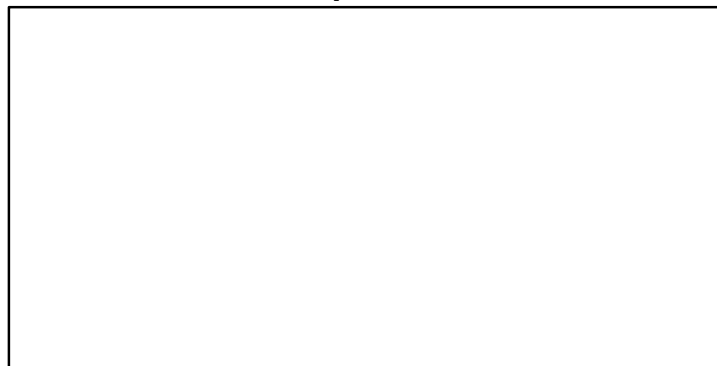


# Ling Faroe Grounds [LINGVb]

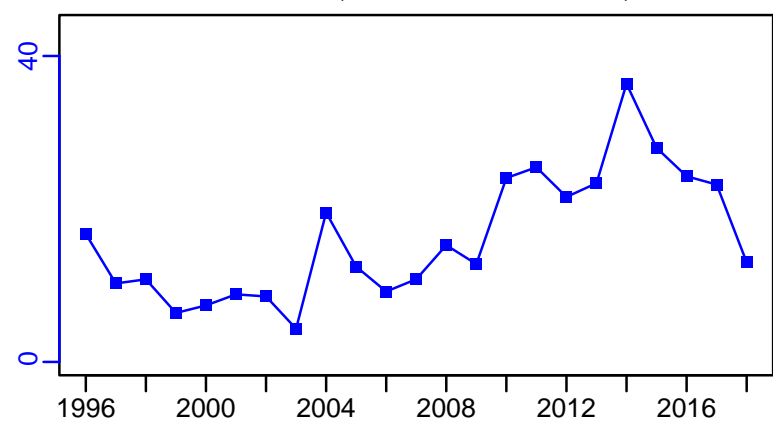
TL-MT, TC\*, RecC\* (1988-2021-ICESIMP2021-2)



TAC\*, Cpair\*, Cadv\*



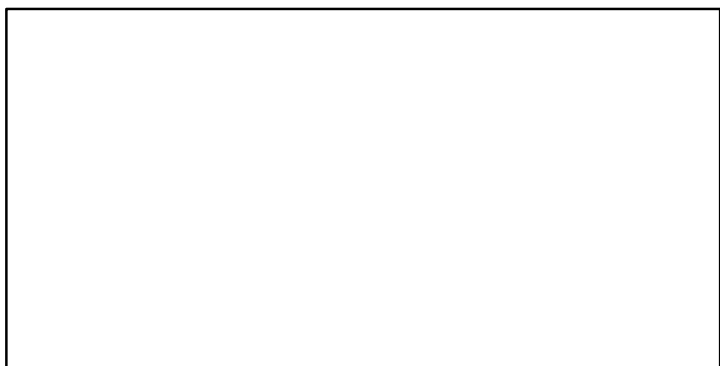
survB-index (1988-2018-ICESIMP2021)



CPUE\*



EFFORT\*



CdivMSY\*



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

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

Metadata	
<b>Scientific Name</b>	Pandalus borealis
<b>Current Assess ID</b>	NIPAG-PANDALI-II-1970-2020-ICESIMP2021-2
<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, 2019, 2020

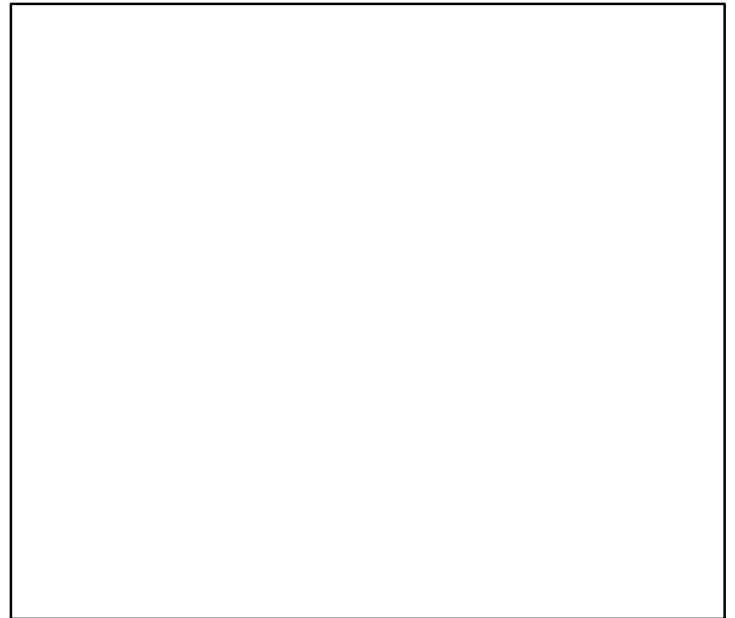
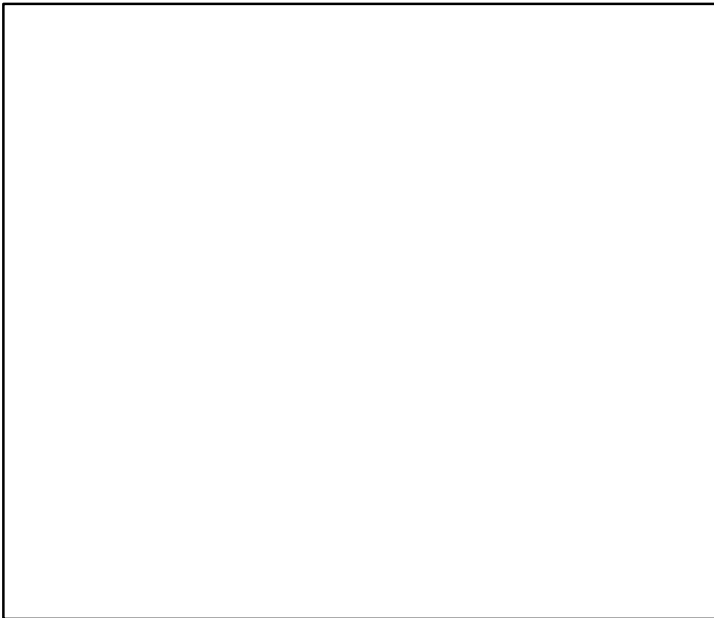
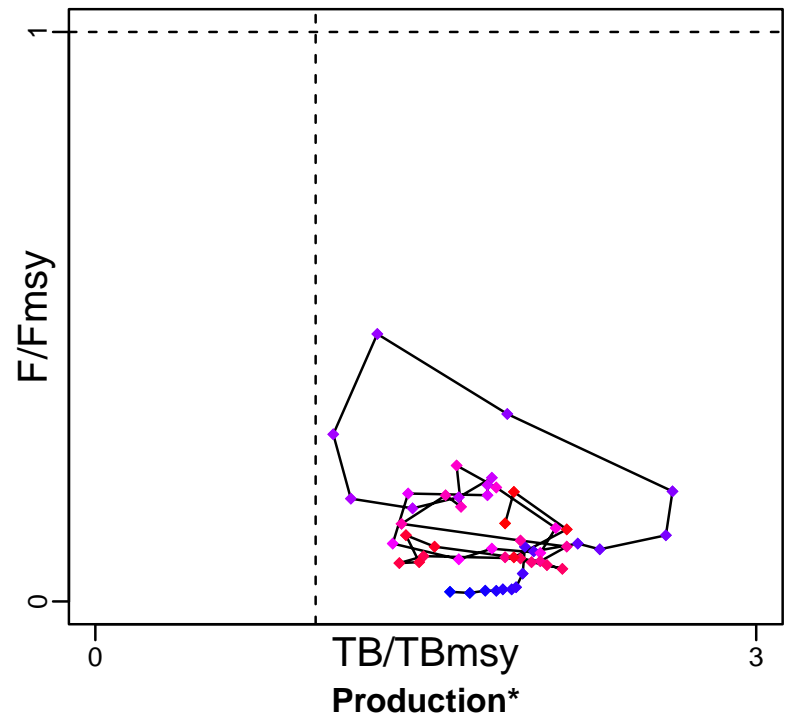
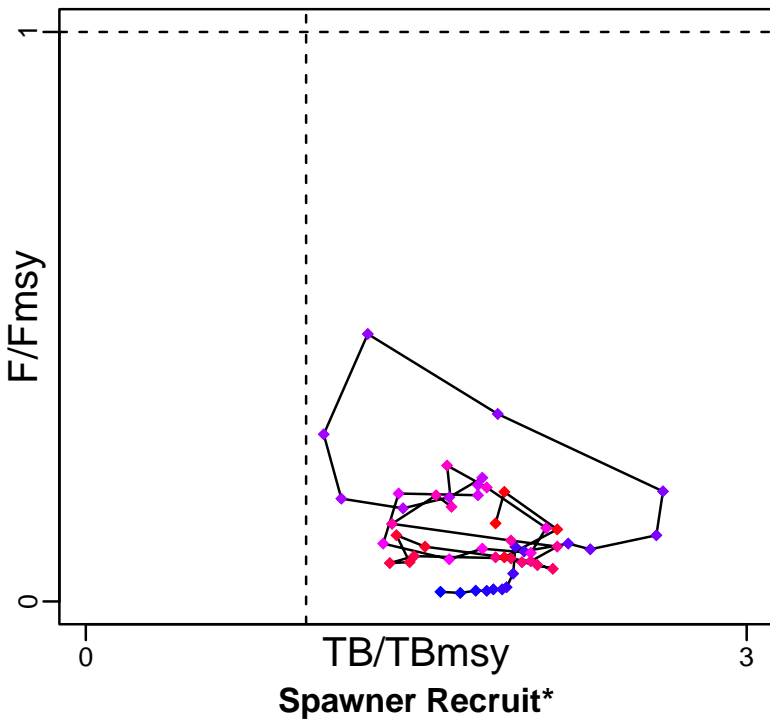
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	0	-	0
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2020	53,000		
TL	TL-MT	2019	78,000		
TB/TBmsy	TBdivTBmsy-dimensionless	2020	1.86		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	2.37		
F/Fmsy	FdivFmsy-dimensionless	2020	0.137		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1970–2020–ICESIMP2021–2)

Kobe MGTpref (1970–2020–ICESIMP2021–2)



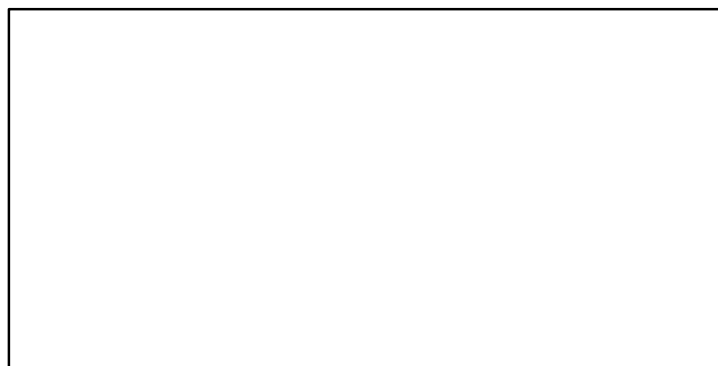
◆ Start Year ◆ End Year \* No Data

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

TB\*



SSB\*



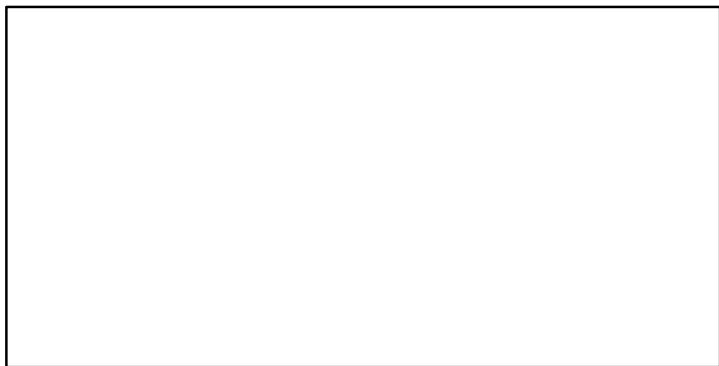
TN \*



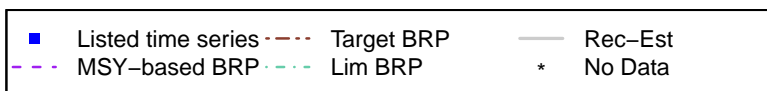
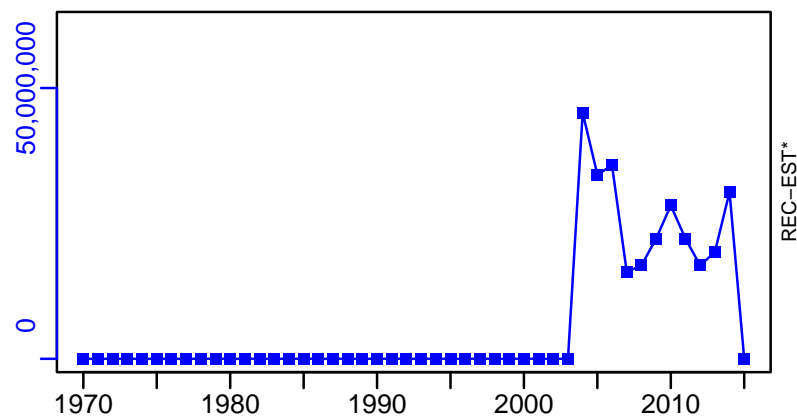
F\*



ER\*

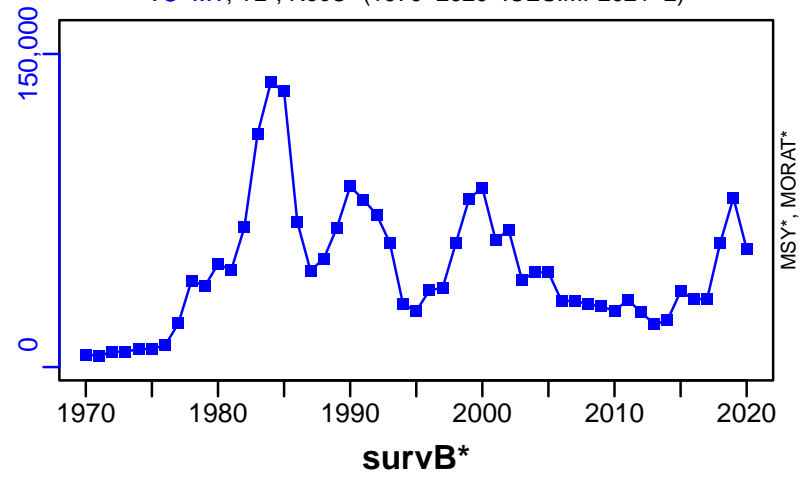


R-E00 (1970–2015–ICESIMP2018)

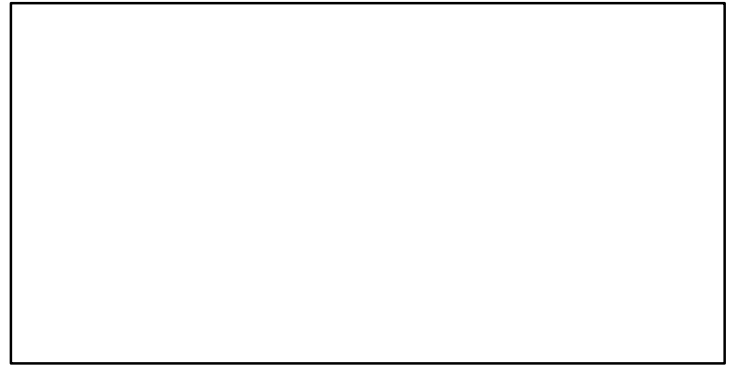


# Northern shrimp North-East Arctic [PANDALI-II]

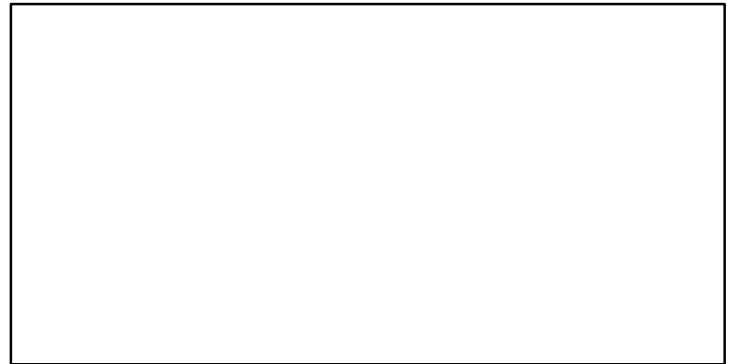
TC-MT, TL\*, RecC\* (1970-2020-ICESIMP2021-2)



TAC\*, Cpair\*, Cadv\*



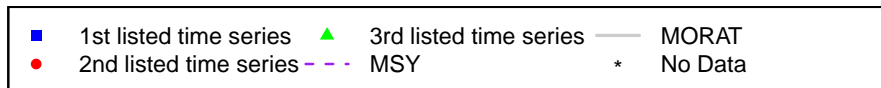
CPUE\*



EFFORT\*



CdivMSY\*



## Saithe Faroe Plateau [POLLFAPL]

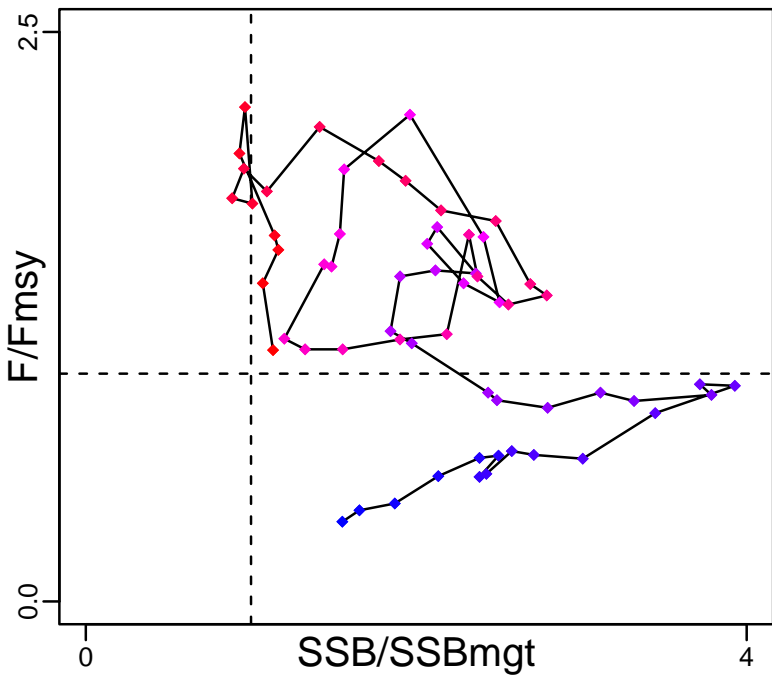
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLFAPL-1958-2021-ICESIMP2022
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2021, 2020

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2021	0.3
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2021	41,400
<b>Fmgt</b>	Fmgt-1/yr	2021	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	2021	29,571
<b>Flim</b>	Flim-1/yr	2021	0.7
<b>ERlim</b>	-	-	-

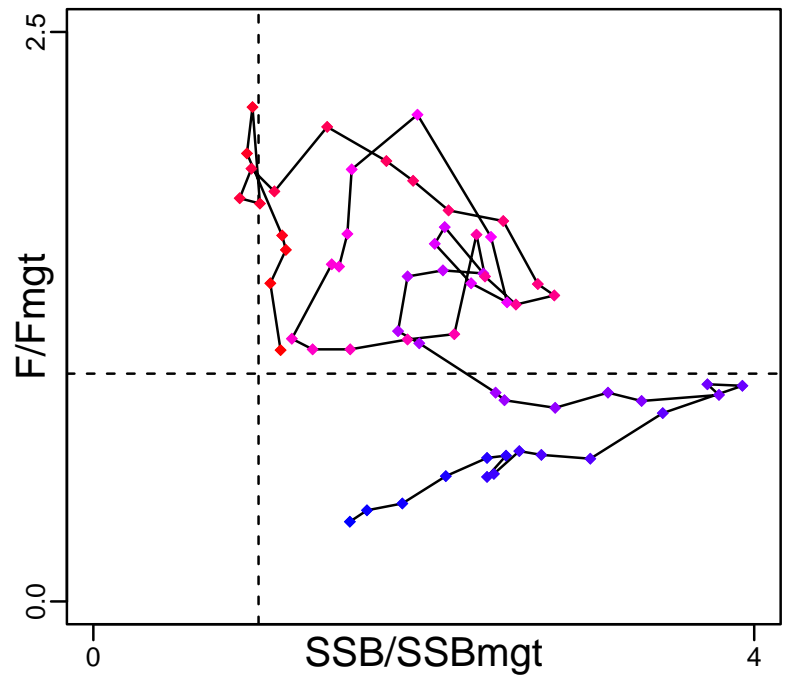
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2021	192,554	-	-
<b>SSB</b>	SSB-MT	2021	60,300	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	78,889,000	-	3
<b>F</b>	F-1/yr	2021	0.331	-	4 to 8
<b>ER</b>	ER-calc-ratio	2021	0.219	-	-
<b>TC</b>	TC-MT	2021	22,773		
<b>TL</b>	TL-MT	2021	22,773		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2021	1.103		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2021	1.457		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2021	1.103		
<b>ER/ERmgt</b>	-	-	-		

Saithe Faroe Plateau [POLLFAPL]

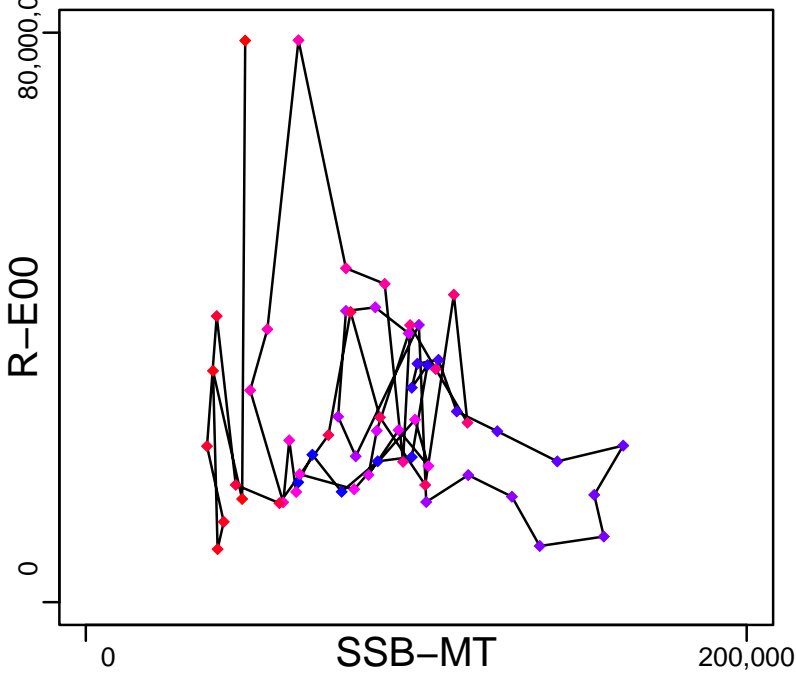
Kobe MSYpref (1958–2021–ICESIMP2022)



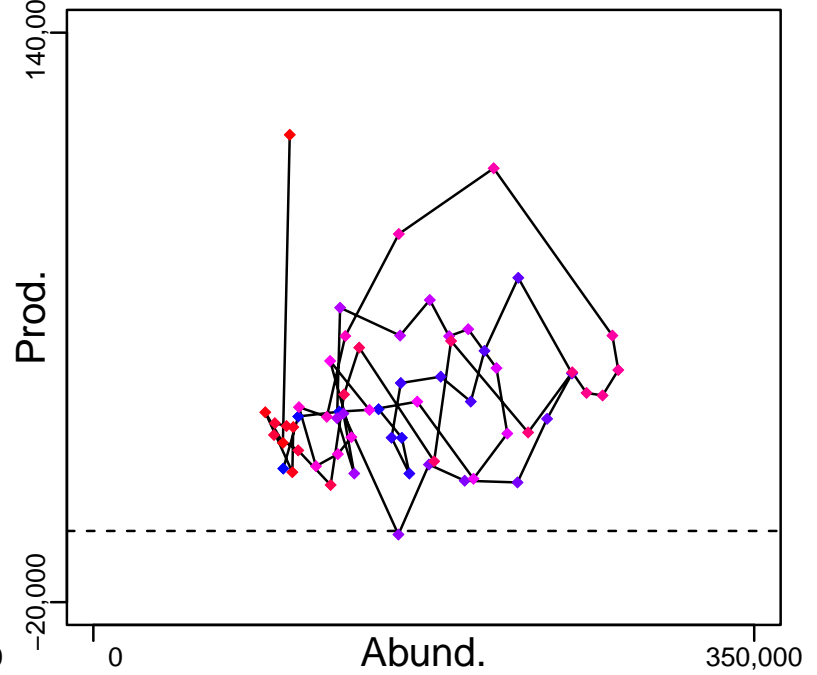
Kobe MGTpref (1958–2021–ICESIMP2022)



Spawner Recruit (1958–2021–ICESIMP2022)



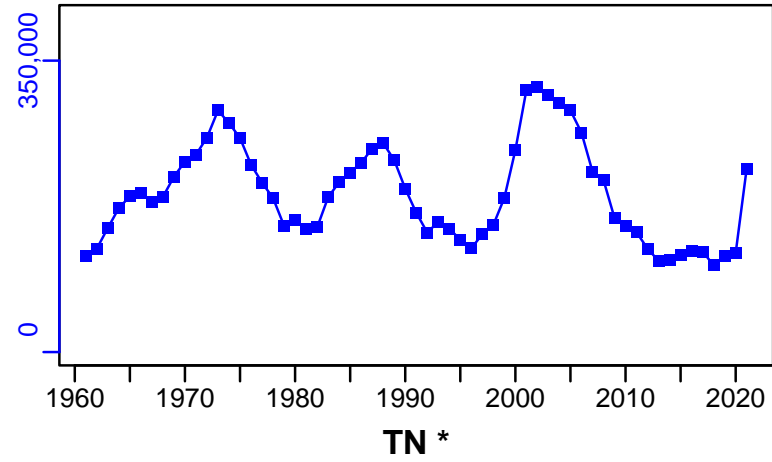
Production (1958–2021–ICESIMP2022)



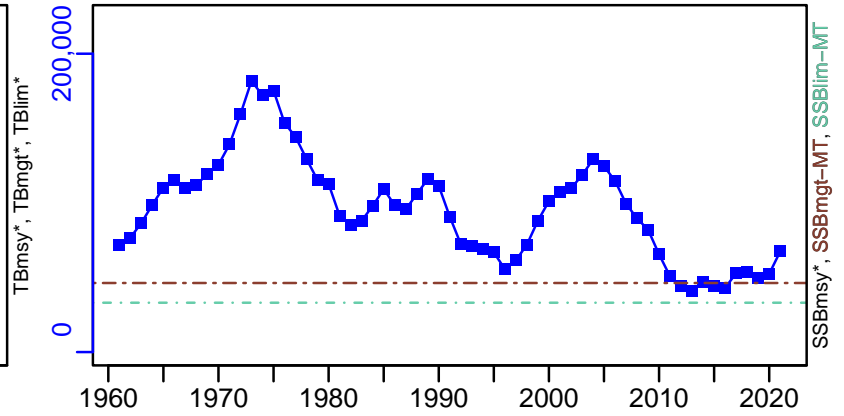
◆ Start Year ◆ End Year \* No Data

# Saithe Faroe Plateau [POLLFAPL]

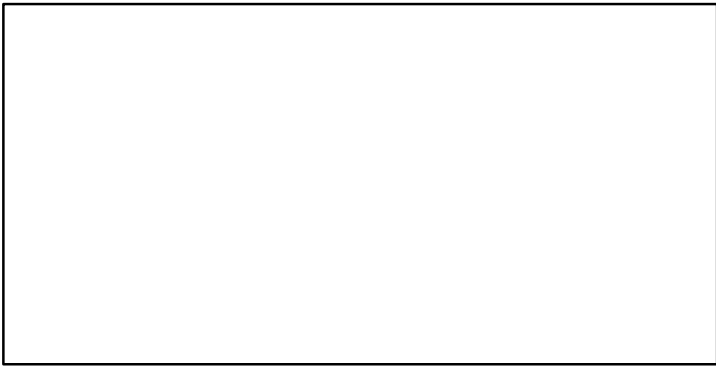
TB-MT (1958–2021–ICESIMP2022)



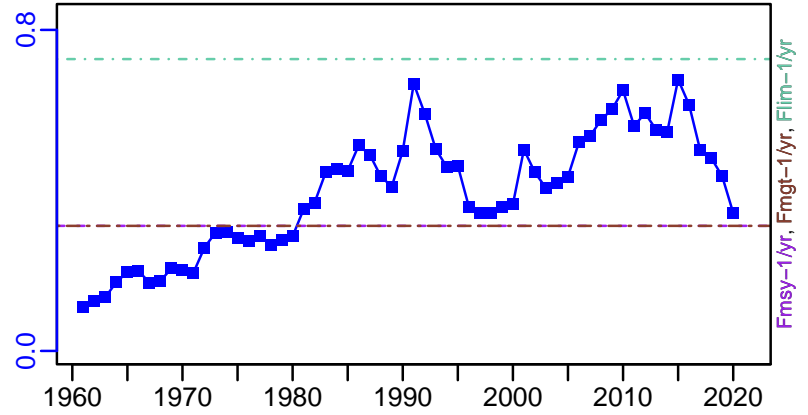
SSB-MT (1958–2021–ICESIMP2022)



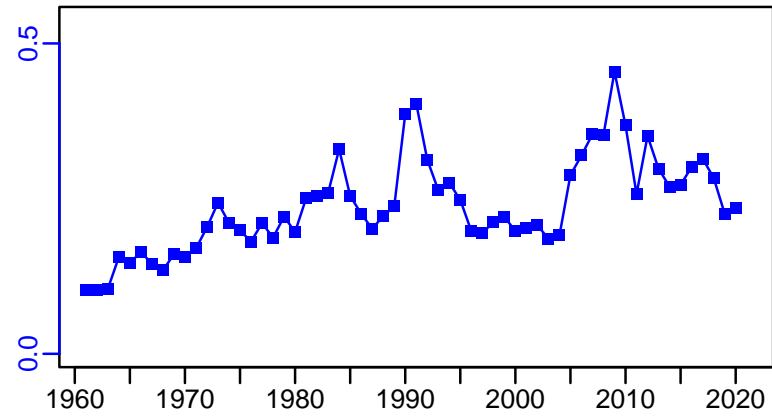
TN \*



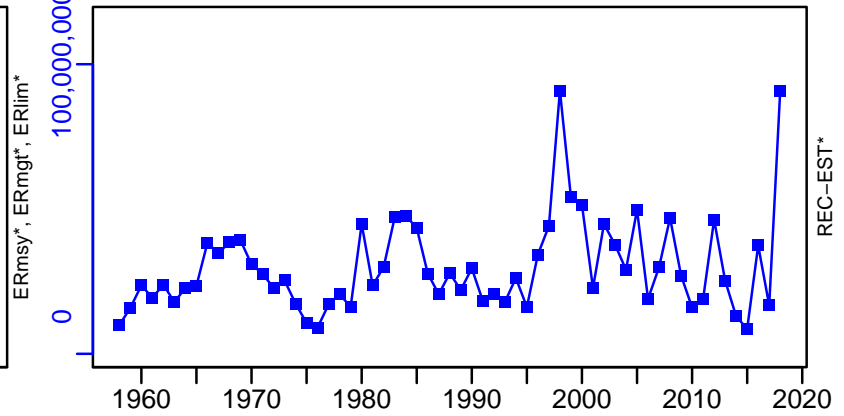
F-1/yr (1958–2021–ICESIMP2022)



ER-calc-ratio (1958–2021–ICESIMP2022)



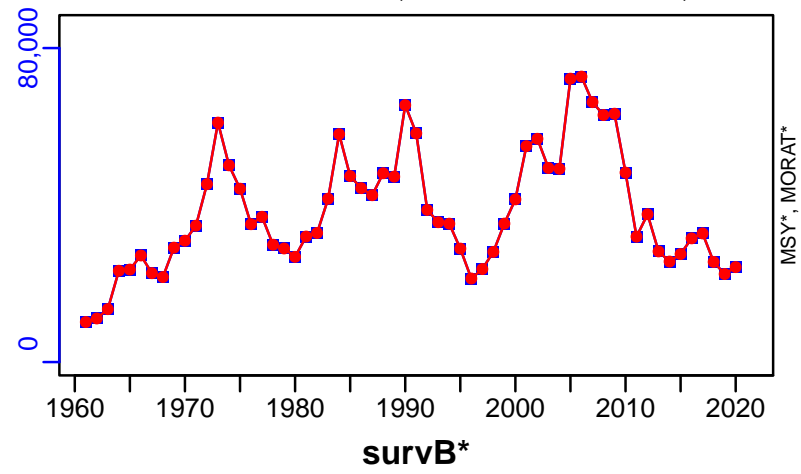
R-E00 (1958–2021–ICESIMP2022)



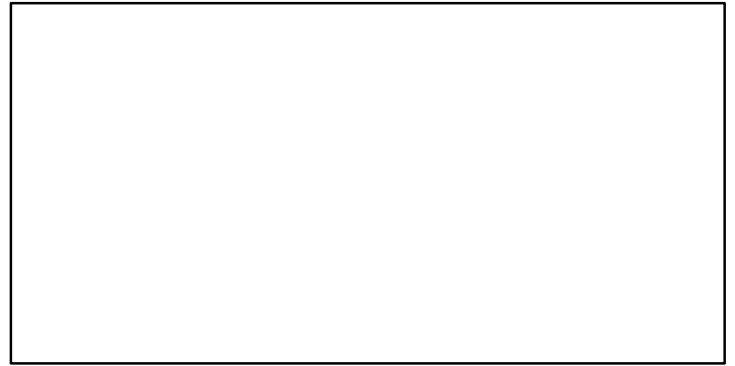


Saithe Faroe Plateau [POLLFAPL]

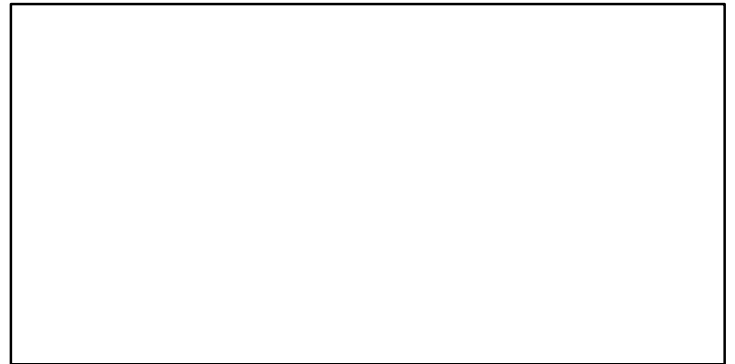
TC-MT, TL-MT, RecC\* (1958–2021–ICESIMP2022)



TAC\*, Cpair\*, Cadv\*



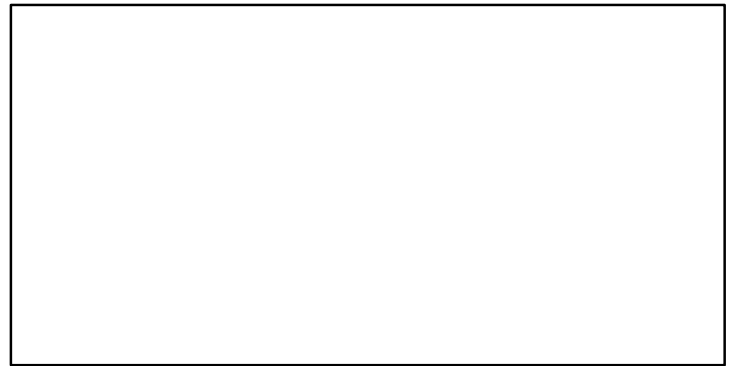
CPUE\*



EFFORT\*



CdivMSY\*



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

## Saithe Iceland Grounds [POLLIEG]

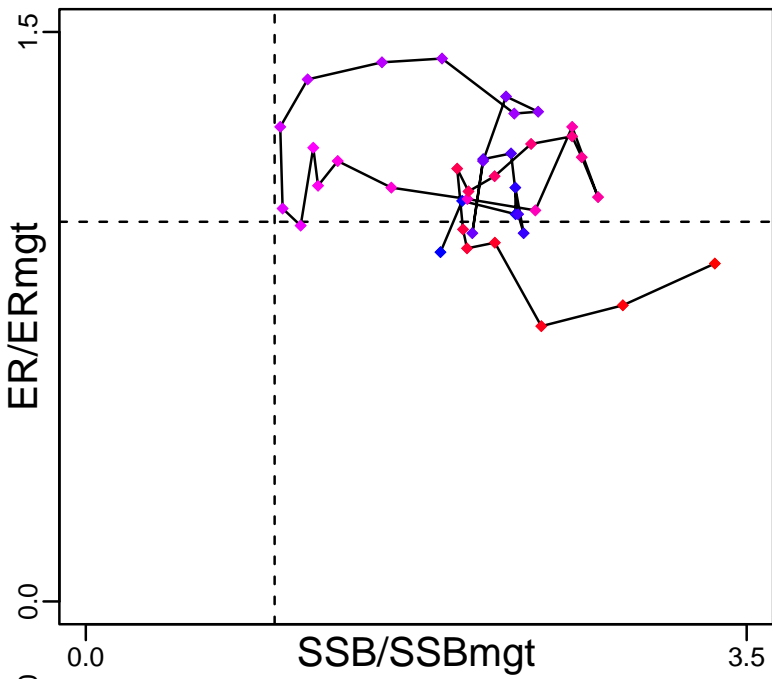
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLIEG-1980-2021-ICESIMP2021-2
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2012	0.28
<b>ERmsy</b>	ERmsy-ratio	2018	0.2
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	61,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2019	0.2
<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	2021	44,000
<b>Flim</b>	Flim-1/yr	2018	0.46
<b>ERlim</b>	-	-	-

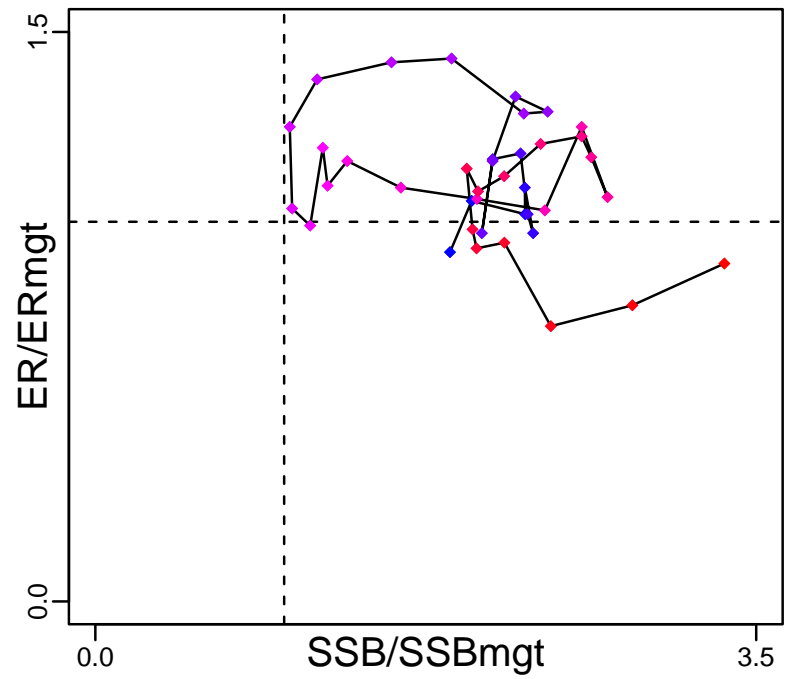
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	306,000	Both	-
<b>SSB</b>	SSB-MT	2021	221,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2021	42,900,000	-	3
<b>F</b>	F-1/yr	2019	0.17	-	4 to 9
<b>ER</b>	ER-ratio	2021	0.178	-	-
<b>TC</b>	TC-MT	2021	50,200		
<b>TL</b>	TL-MT	2021	50,200		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2012	0.929		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2018	0.605		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	3.687		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Saithe Iceland Grounds [POLLIEG]

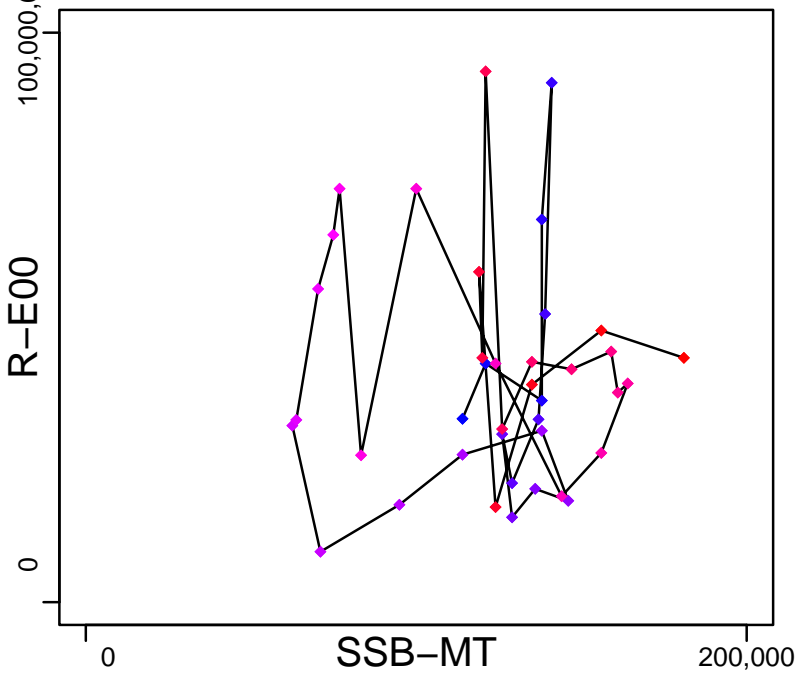
Kobe MSYpref (1977–2019–ICESIMP2021)



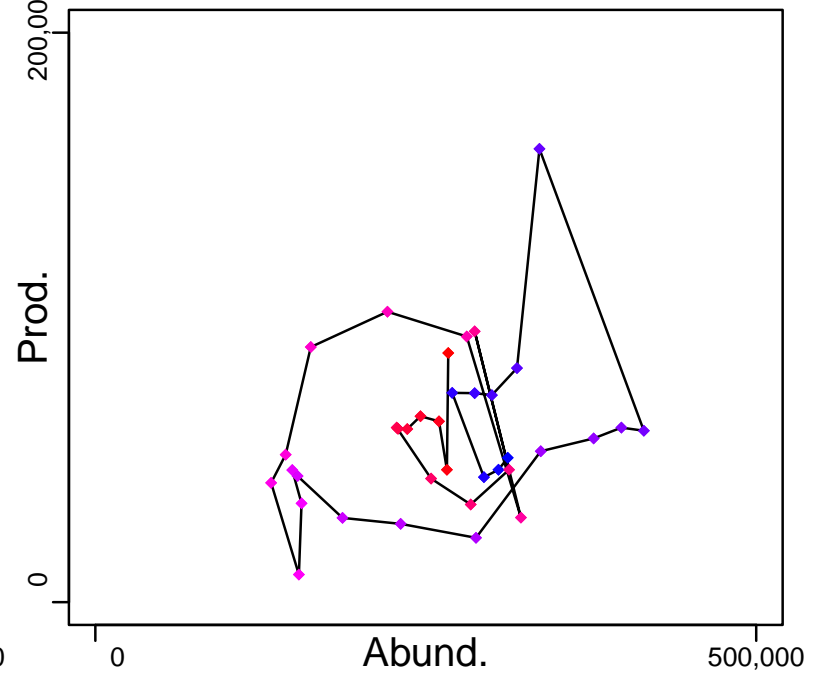
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1980–2021–ICESIMP2021–2)



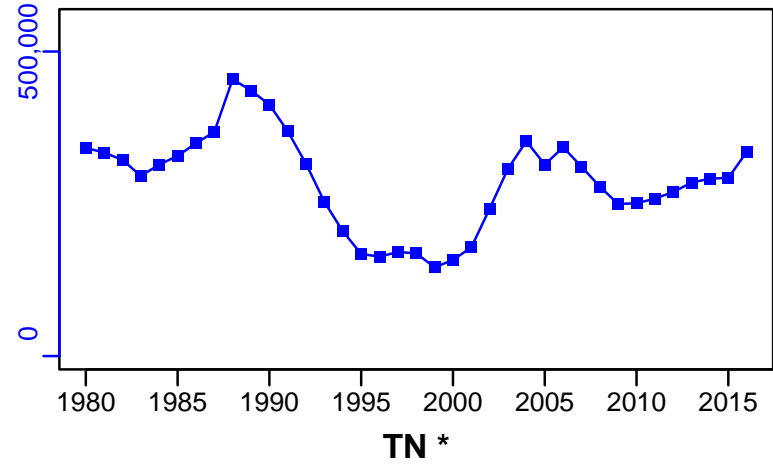
Production (1977–2017–ICESIMP2018)



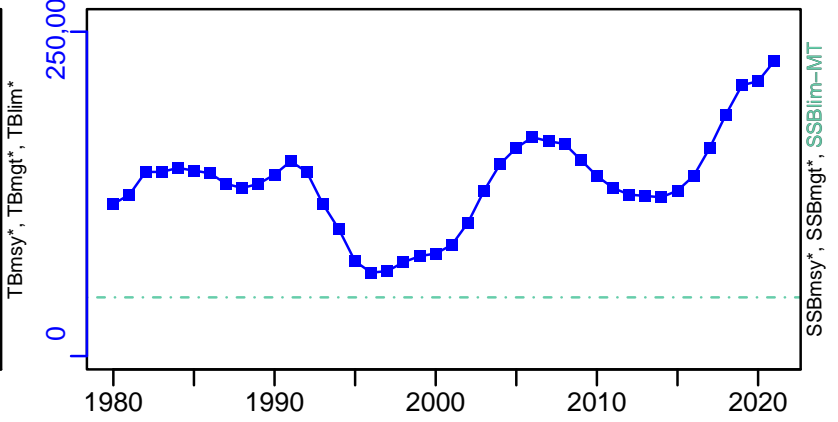
◆ Start Year ◆ End Year \* No Data

# Saithe Iceland Grounds [POLLIEG]

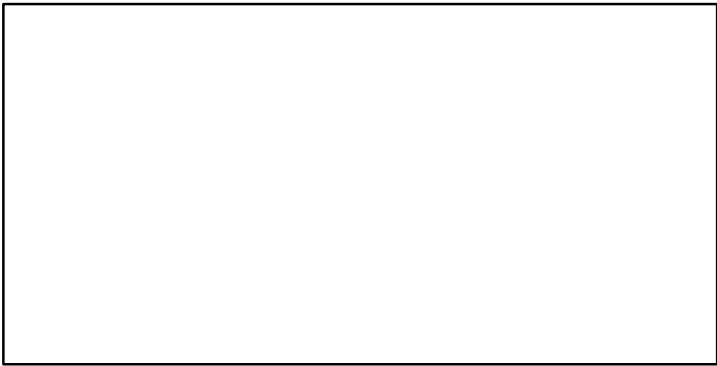
TB-MT (1977–2017–ICESIMP2018)



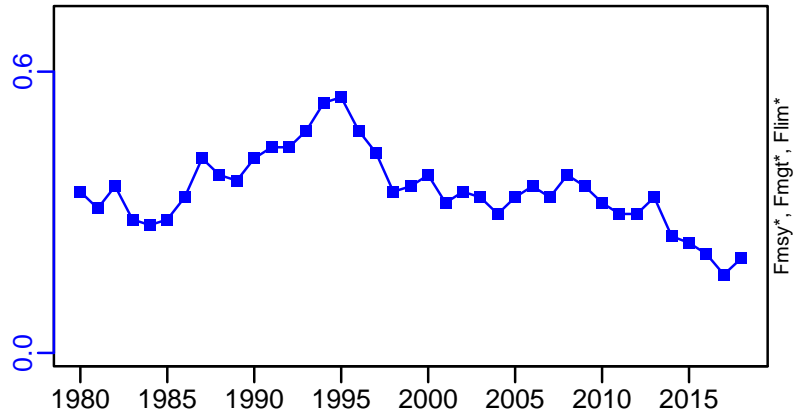
SSB-MT (1980–2021–ICESIMP2021–2)



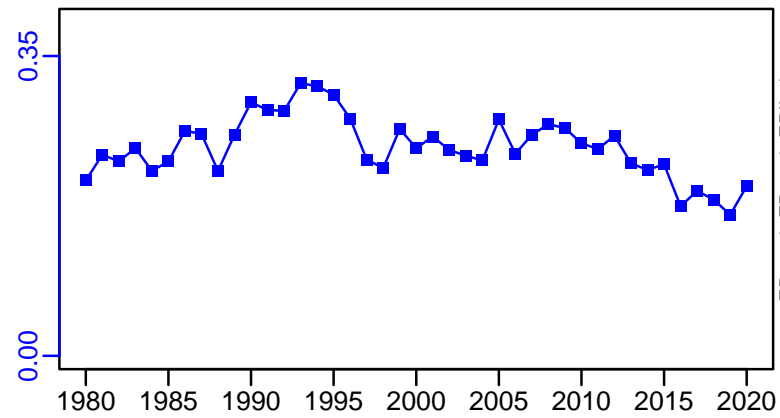
TN \*



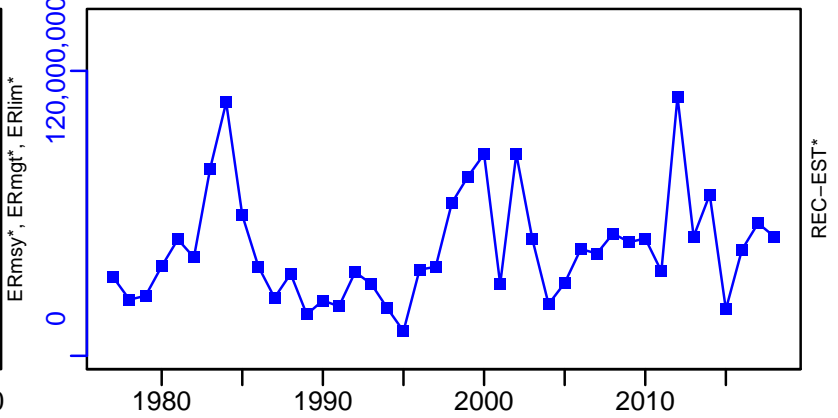
F-1/yr (1977–2019–ICESIMP2021)



ER-ratio (1980–2021–ICESIMP2021–2)

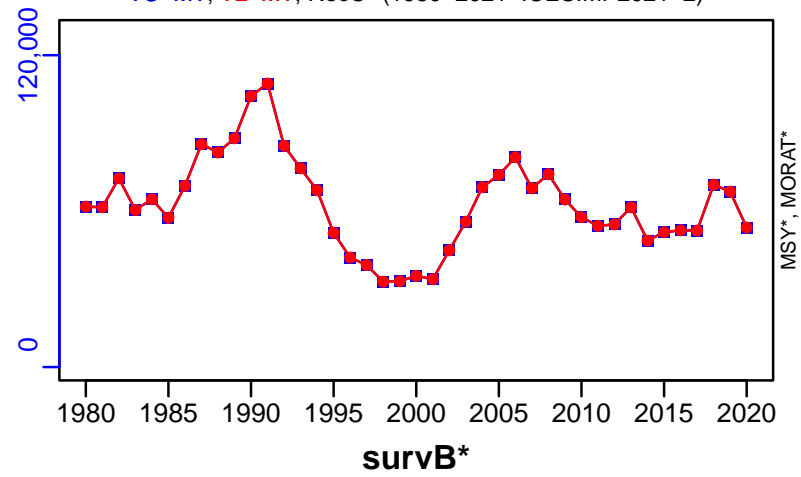


R-E00 (1980–2021–ICESIMP2021–2)



# Saithe Iceland Grounds [POLLIEG]

TC-MT, TL-MT, RecC\* (1980-2021-ICESIMP2021-2)



TAC\*, Cpair\*, Cadv\*



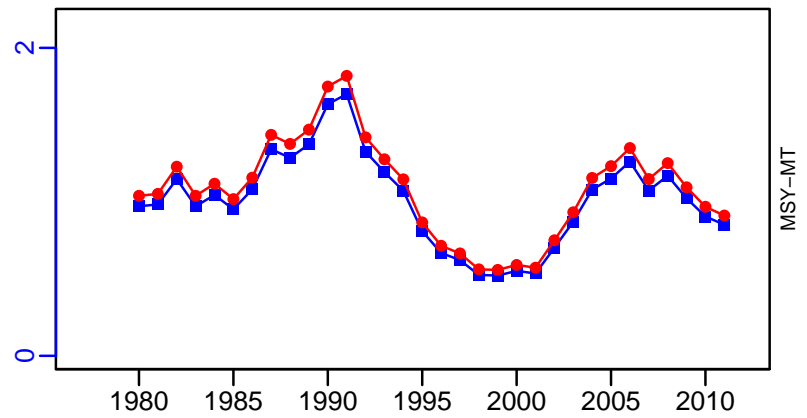
CPUE\*



EFFORT\*



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



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

## Saithe North-East Arctic [POLLNEAR]

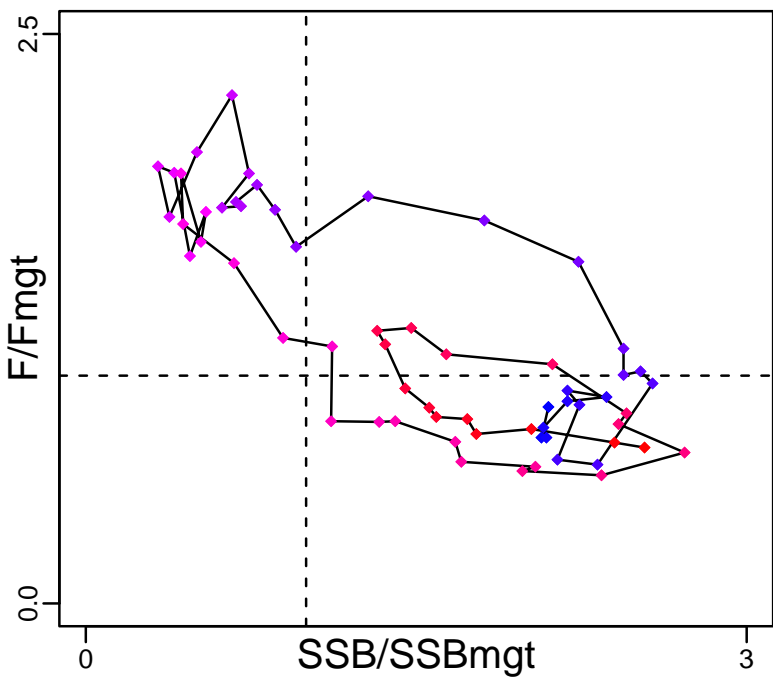
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	AFWG-POLLNEAR-1960-2021-ICESIMP2021-2
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2021	220,000
Fmgt	Fmgt-1/yr	2021	0.32
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2021	136,000
Flim	Flim-1/yr	2021	0.58
ERlim	-	-	-

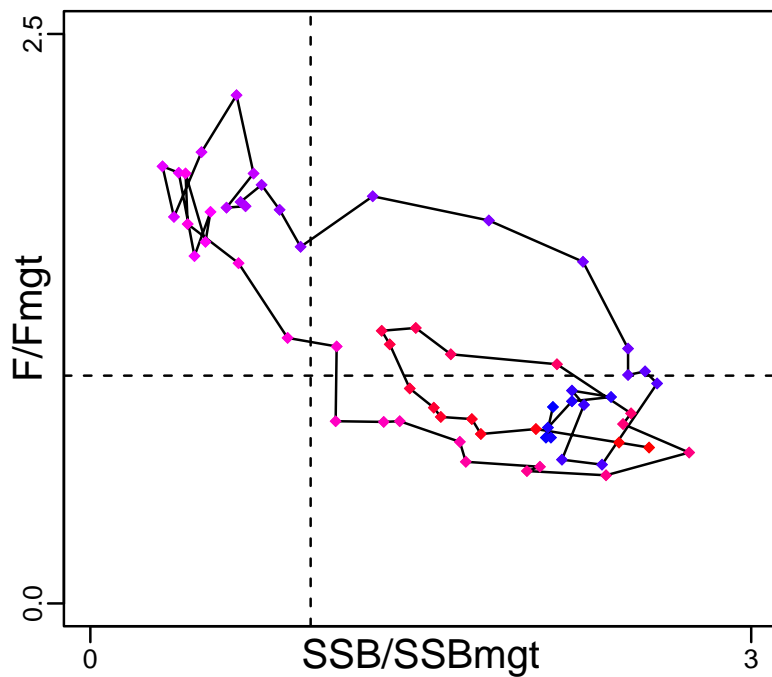
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	909,053	-	-
SSB	SSB-MT	2021	569,000	-	-
TN	-	-	-	-	-
R	R-E00	2021	$1.6 \times 10^8$	-	3
F	F-1/yr	2021	0.219	-	-
ER	ER-calc-ratio	2019	0.199	-	-
TC	TC-MT	2021	169,000		
TL	TL-MT	2021	169,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2021	2.586		
F/Fmgt	F-1/yr/Fmgt-1/yr	2021	0.684		
ER/ERmgt	-	-	-		

Saithe North-East Arctic [POLLNEAR]

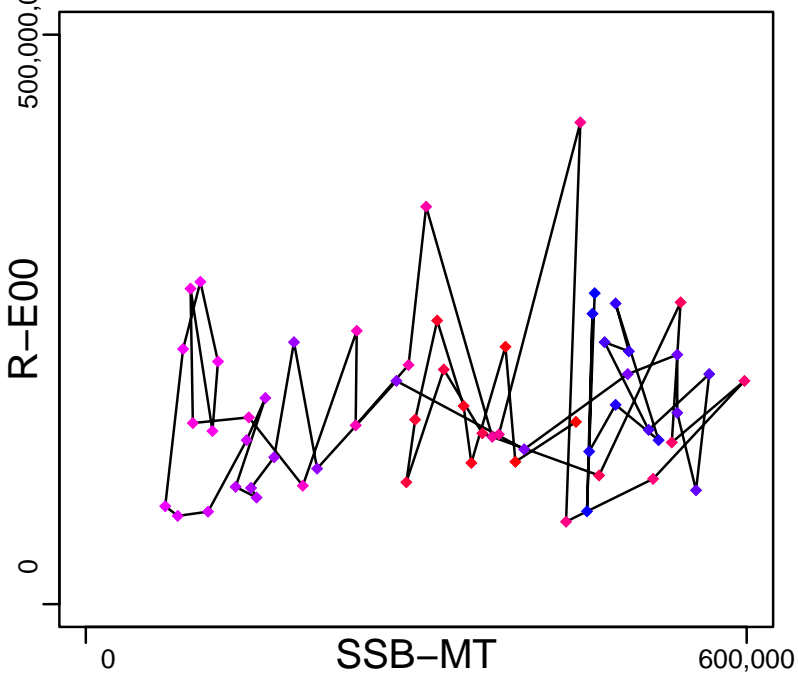
Kobe MSYpref (1960–2021–ICESIMP2021–2)



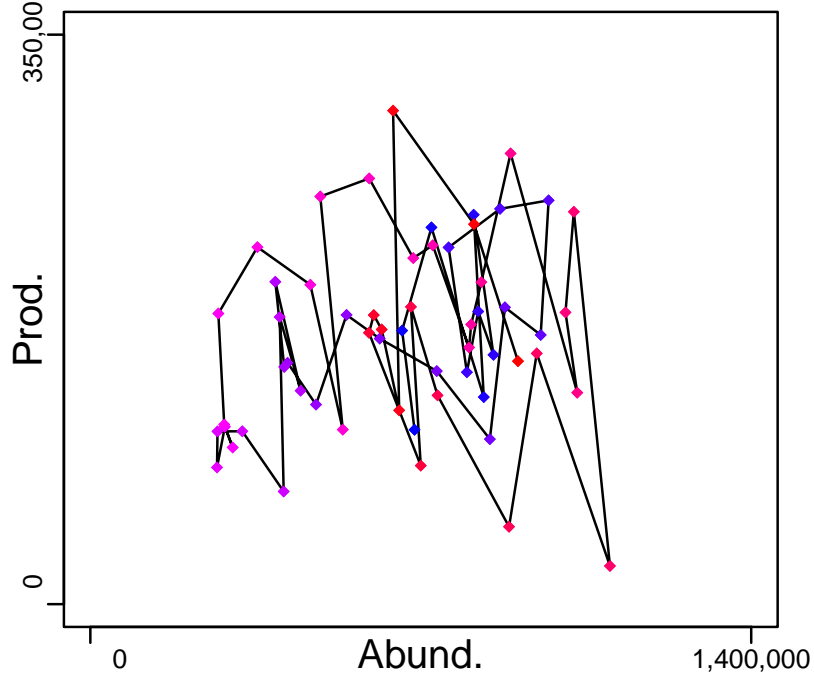
Kobe MGTpref (1960–2021–ICESIMP2021–2)



Spawner Recruit (1960–2021–ICESIMP2021–2)



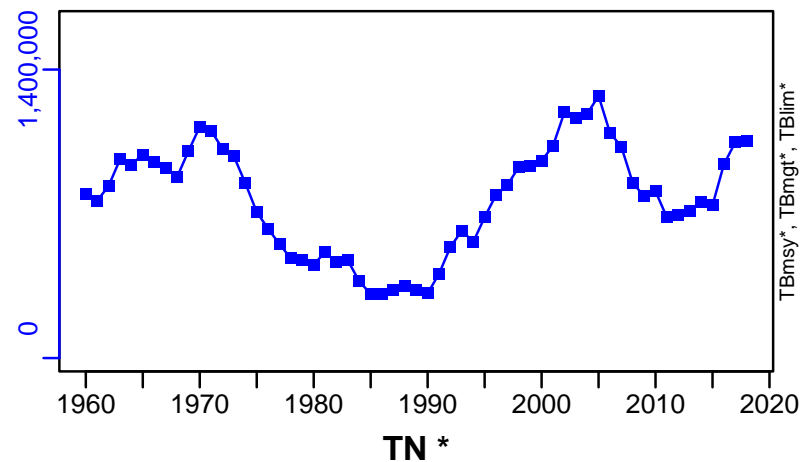
Production (1957–2019–ICESIMP2021)



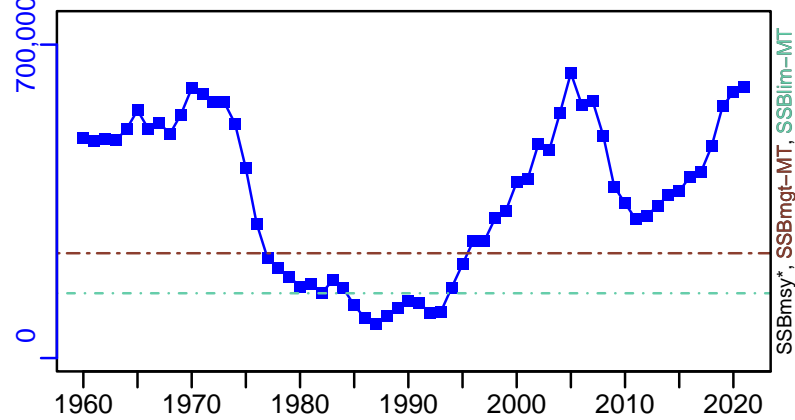
◆ Start Year ◆ End Year \* No Data

# Saithe North-East Arctic [POLLNEAR]

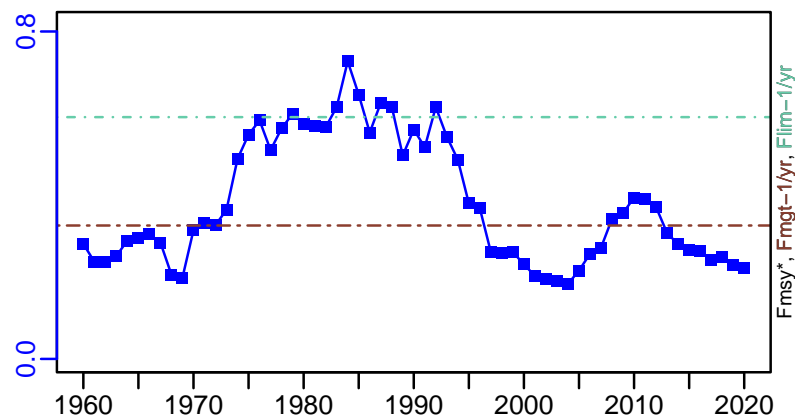
TB-MT (1957–2019–ICESIMP2021)



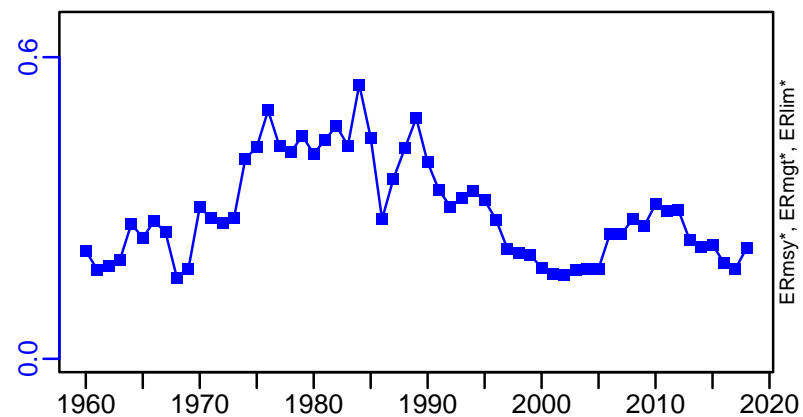
SSB-MT (1960–2021–ICESIMP2021–2)



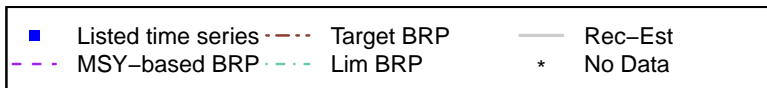
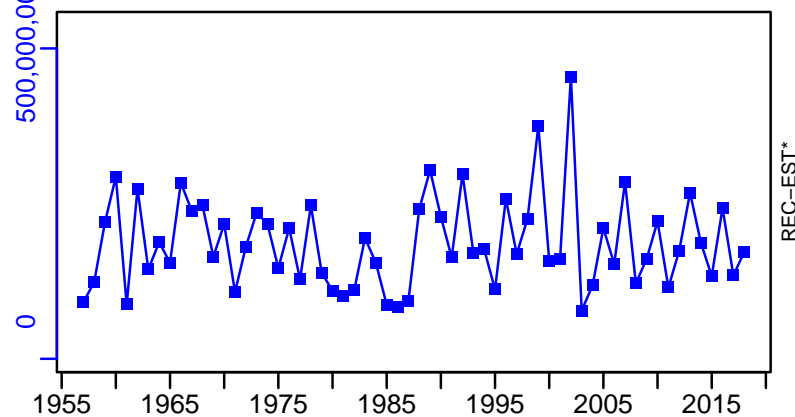
F-1/yr (1960–2021–ICESIMP2021–2)



ER-calc-ratio (1957–2019–ICESIMP2021)



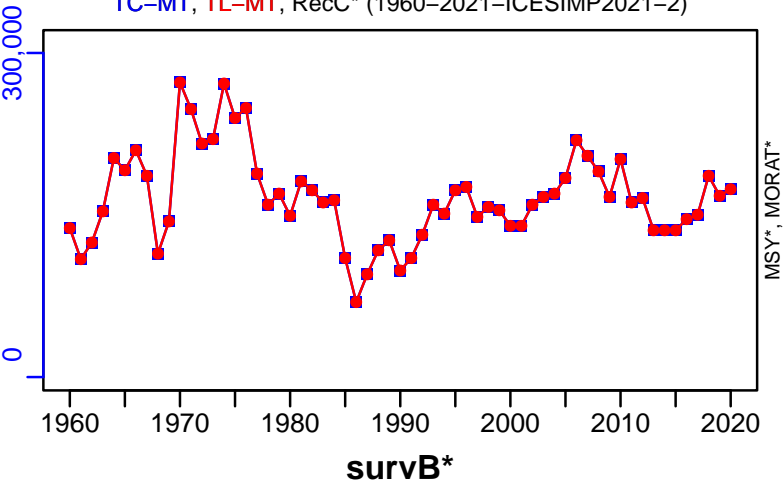
R-E00 (1960–2021–ICESIMP2021–2)



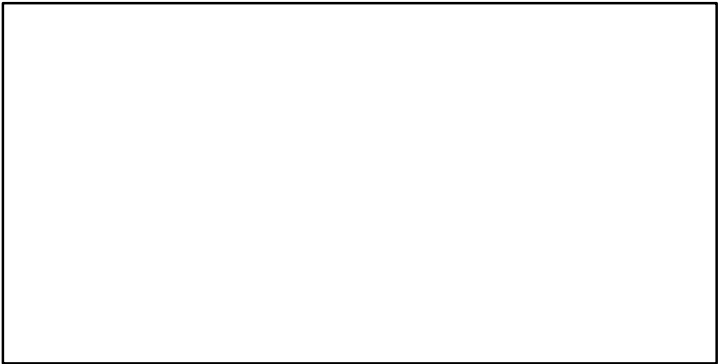


Saithe North-East Arctic [POLLNEAR]

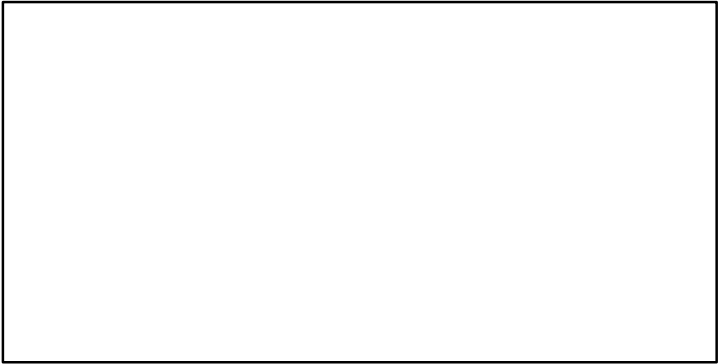
TC-MT, TL-MT, RecC\* (1960-2021-ICESIMP2021-2)



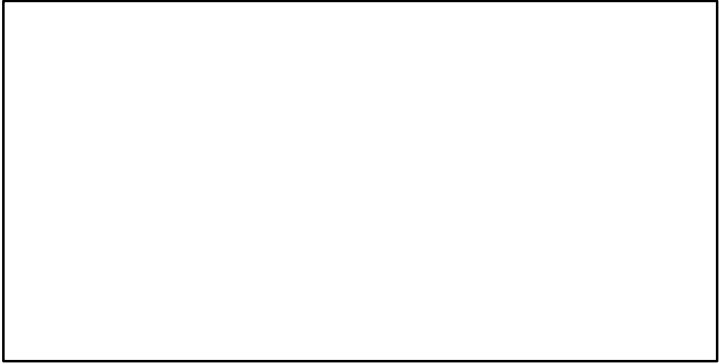
TAC\*, Cpair\*, Cadv\*



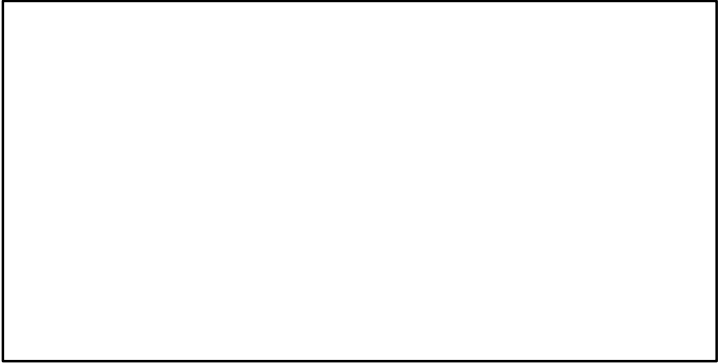
CPUE\*



EFFORT\*



CdivMSY\*



**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-1980-2019-ICESIMP2021
<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, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-relative	2019	0.131
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-relative	2019	1.263
<b>Fmgt</b>	Fmgt-relative	2019	0.131
<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	2019	0.321	-	-
<b>SSB</b>	SSB-relative	2019	0.282	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-relative	2019	0.885	-	5
<b>F</b>	F-relative	2019	1.593	-	-
<b>ER</b>	-	-	-	-	-
<b>TC</b>	TC-MT	2019	24,453		
<b>TL</b>	TL-MT	2019	24,453		
<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>	-	-	-		

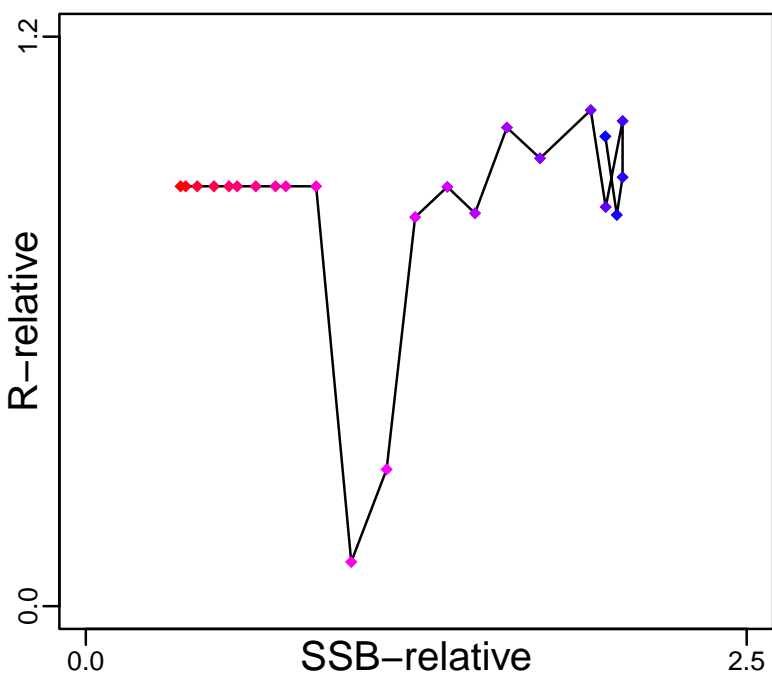
**Kobe MSY\***



**Kobe MGT\***



Spawner Recruit (1980–2019–ICESIMP2021)



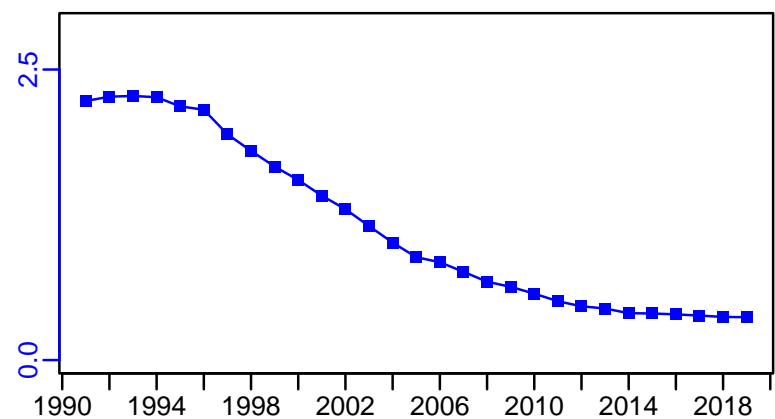
**Production\***



◆ Start Year ◆ End Year \* No Data

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

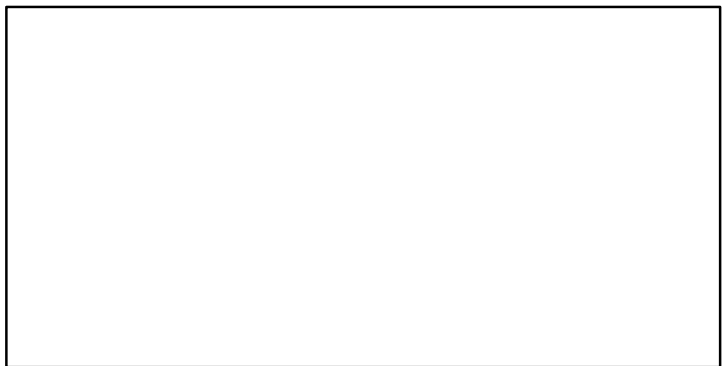
TB-relative (1980–2019–ICESIMP2021)



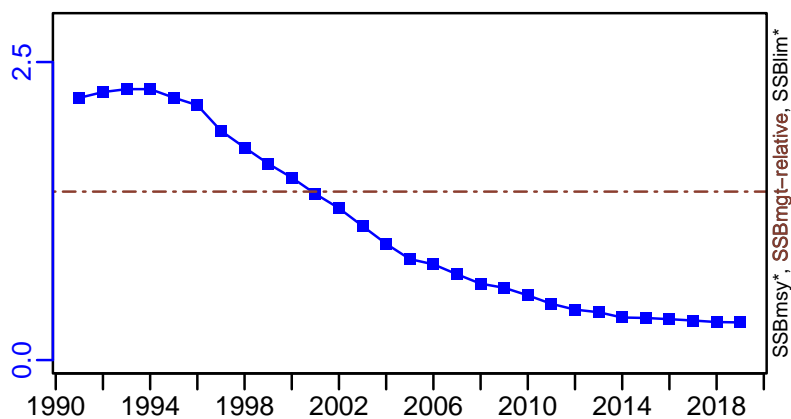
TN \*



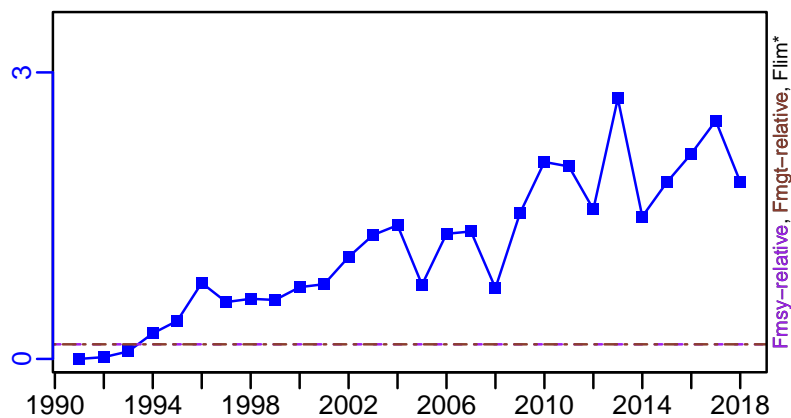
ER\*



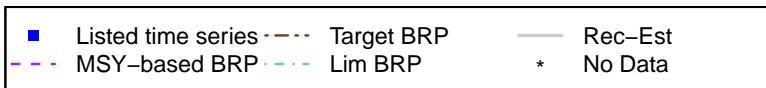
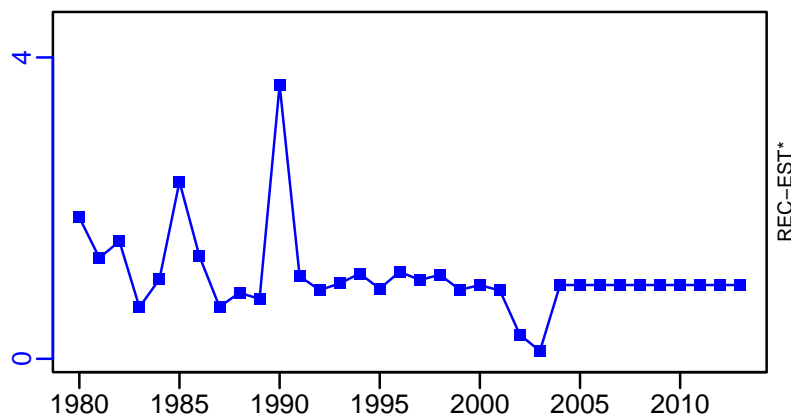
SSB-relative (1980–2019–ICESIMP2021)



F-relative (1980–2019–ICESIMP2021)

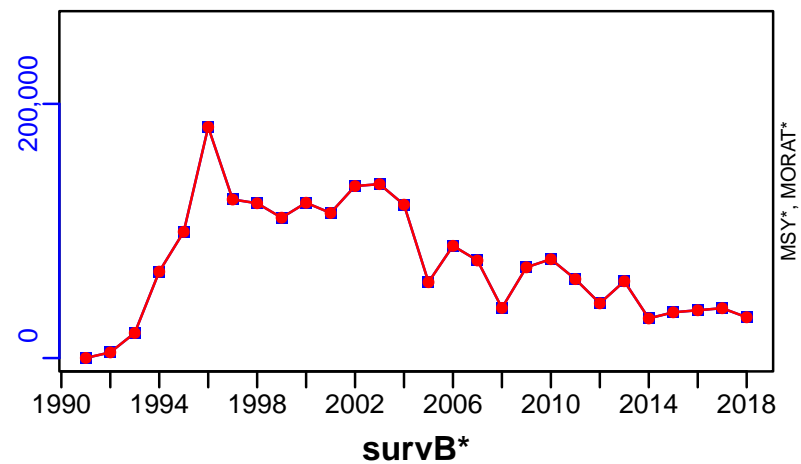


R-relative (1980–2019–ICESIMP2021)



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

TC–MT, TL–MT, RecC\* (1980–2019–ICESIMP2021)



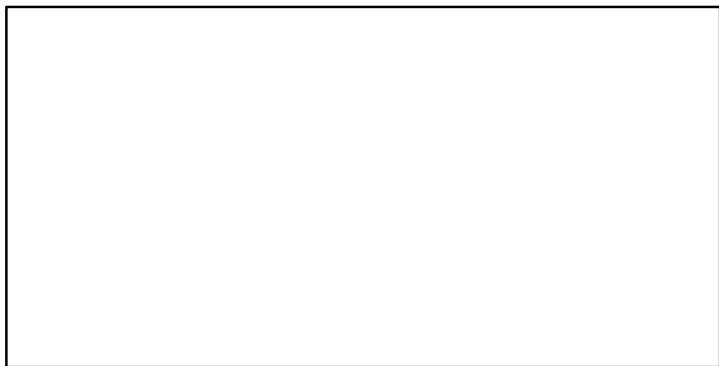
TAC\*, Cpair\*, Cadv\*



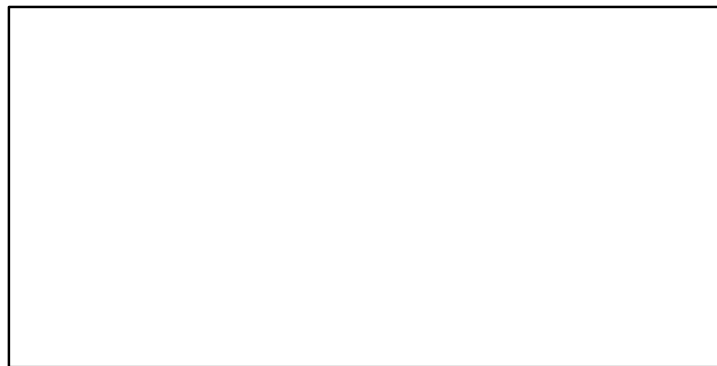
CPUE\*



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-1952-2020-ICESIMP2021-2
<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, 2018, 2020, 2014, 2016

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	2020	315,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2020	227,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1,260,000	Both	-
<b>SSB</b>	SSB-MT	2020	918,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2020	$2.65 \times 10^8$	-	2
<b>F</b>	F-1/yr	2018	0.039	-	19+
<b>ER</b>	ER-ratio	2020	0.045	-	-
<b>TC</b>	TC-MT	2020	46,000		
<b>TL</b>	TL-MT	2018	31,201		
<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	2020	2.914		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

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

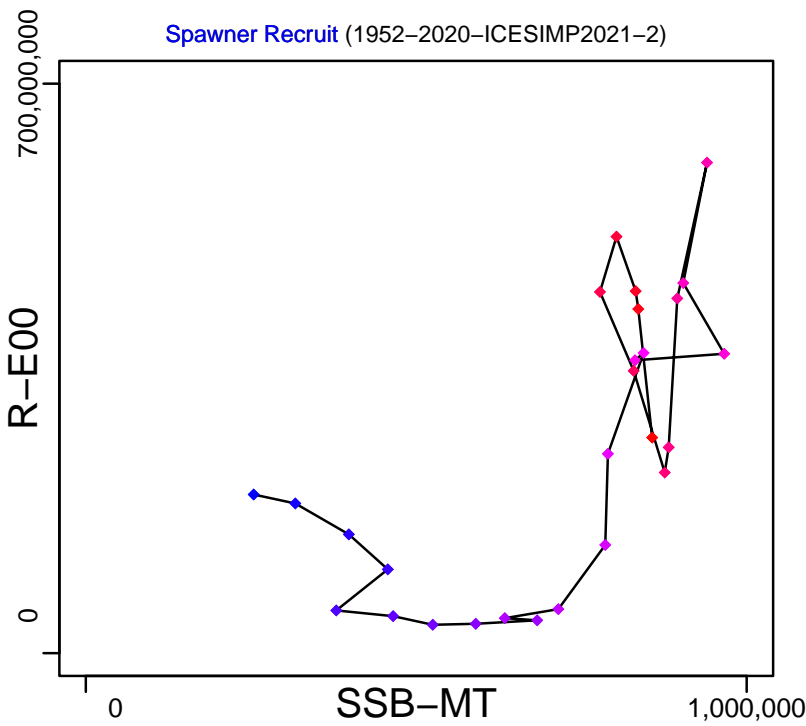
Kobe MSY\*



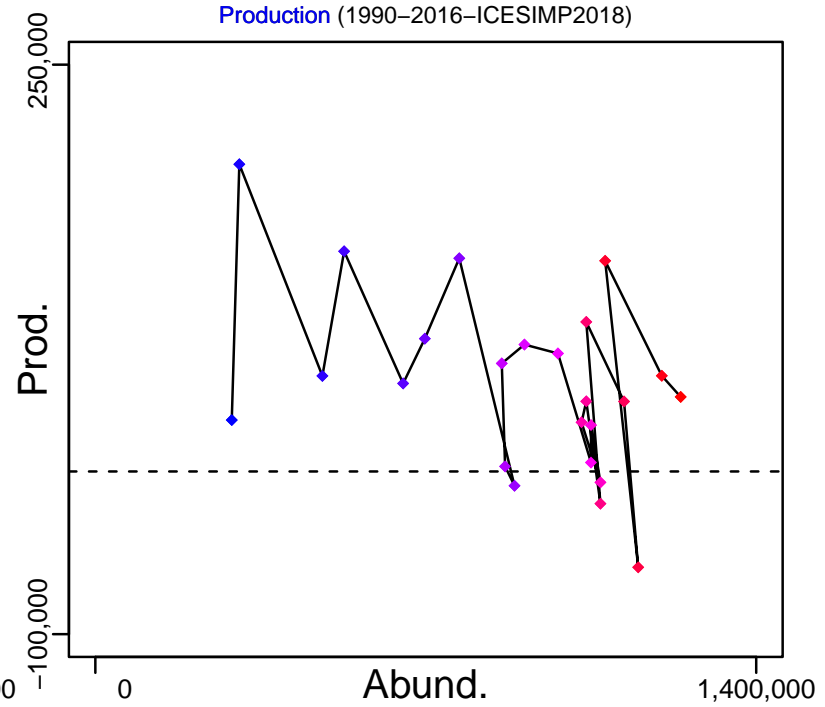
Kobe MGT\*



Spawner Recruit (1952–2020–ICESIMP2021–2)



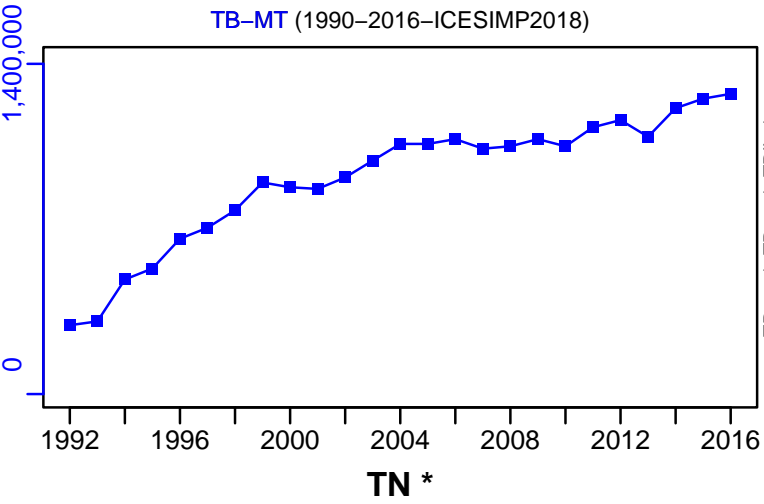
Production (1990–2016–ICESIMP2018)



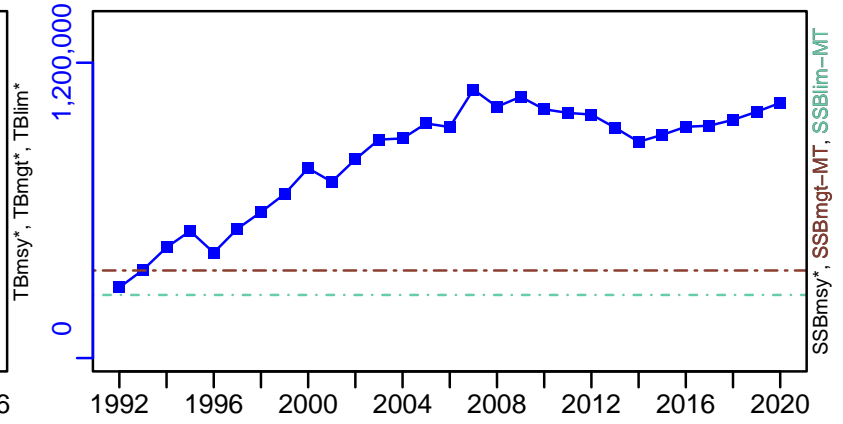
◆ Start Year ◆ End Year \* No Data

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

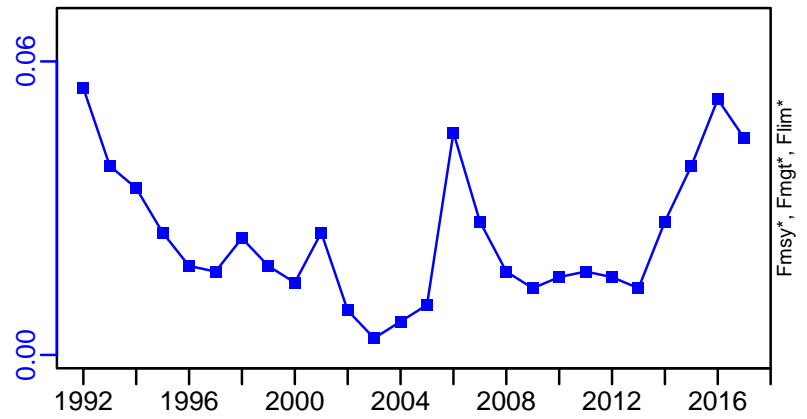
TB-MT (1990–2016–ICESIMP2018)



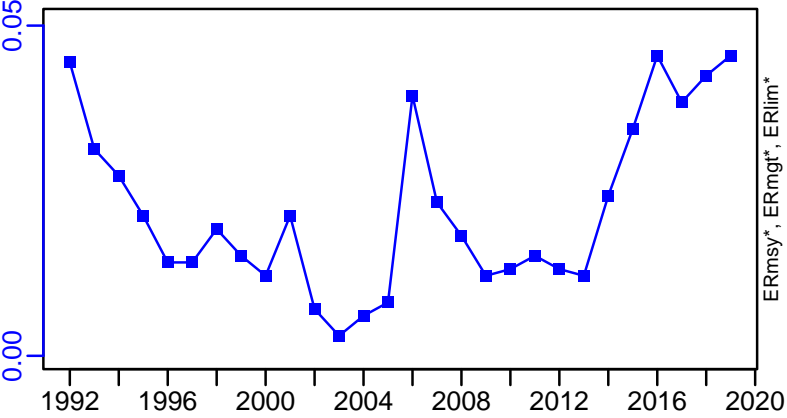
SSB-MT (1952–2020–ICESIMP2021–2)



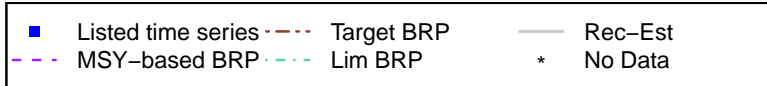
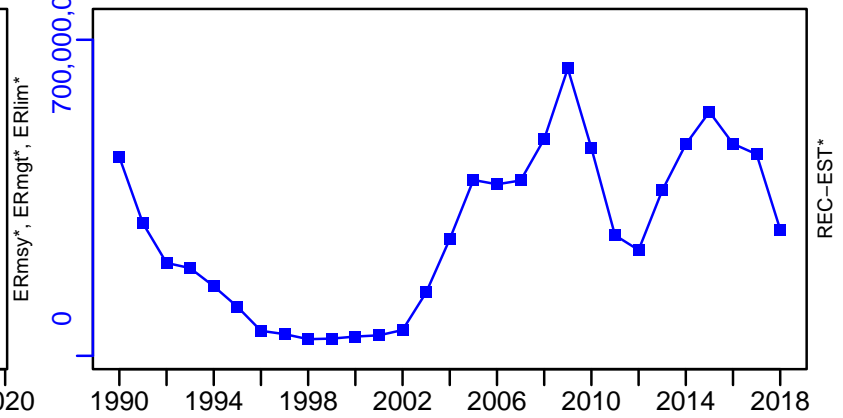
F-1/yr (1952–2018–ICESIMP2021)



ER-ratio (1952–2020–ICESIMP2021–2)



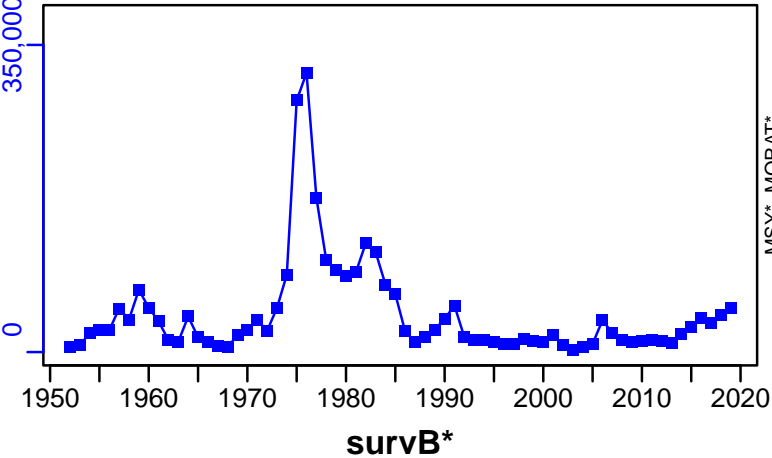
R-E00 (1952–2020–ICESIMP2021–2)





Deepwater redfish North-East Arctic [REDDEEPI-II]

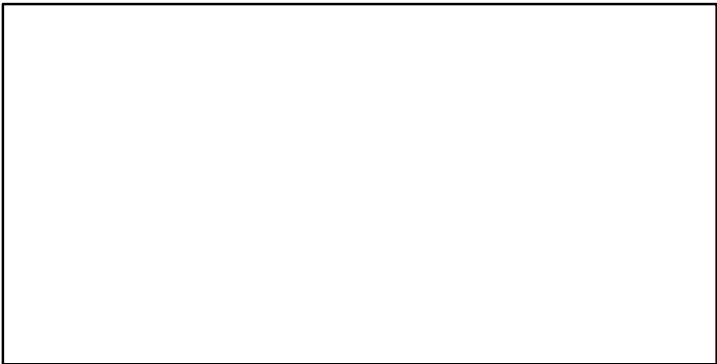
TC-MT, TL\*, RecC\* (1952-2020-ICESIMP2021-2)



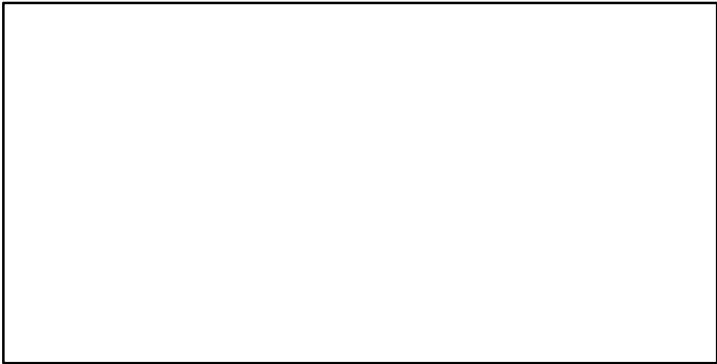
TAC\*, Cpair\*, Cadv\*



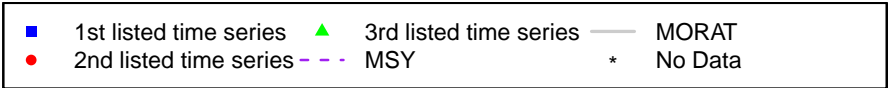
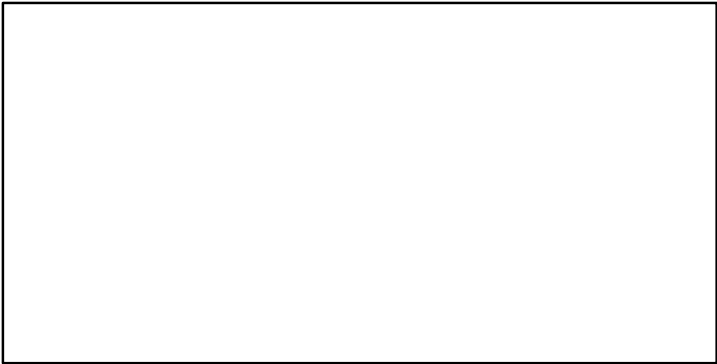
CPUE\*



EFFORT\*



CdivMSY\*



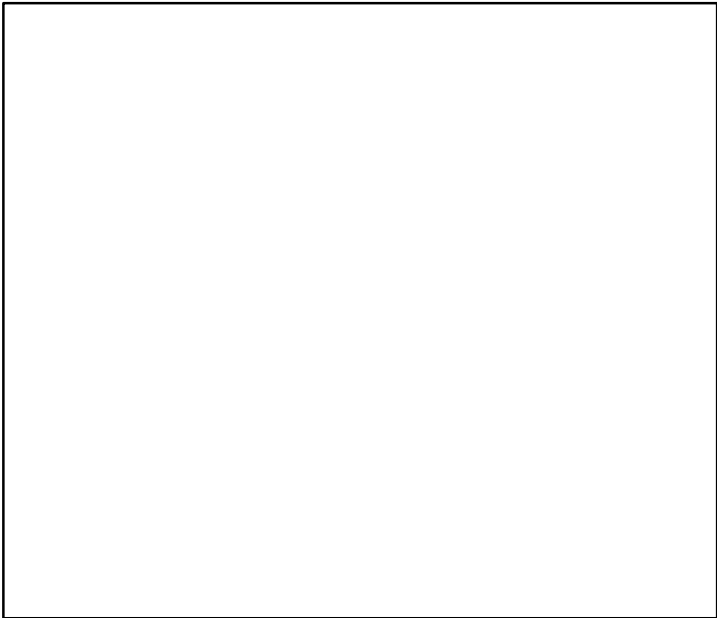
**Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (shallow)  
[REDDEEPSH1-2-V-XII-XIV]**

Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPSH1-2-V-XII-XIV-1982-2018-ICESIMP2021
<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, 2018

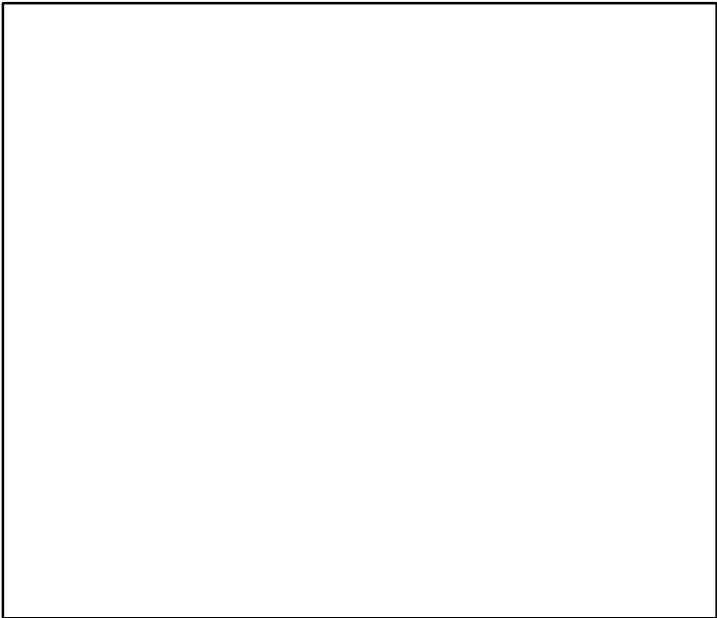
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	4599		
TL	TL-MT	2016	5600		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

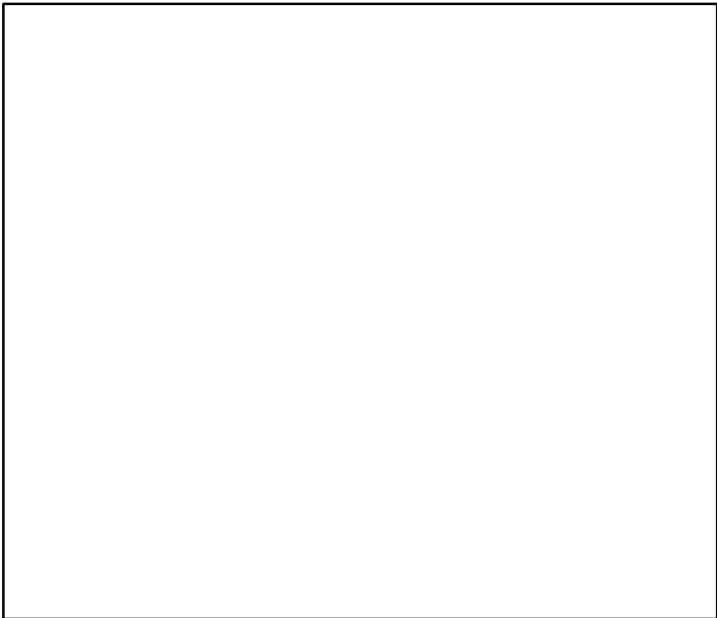
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***

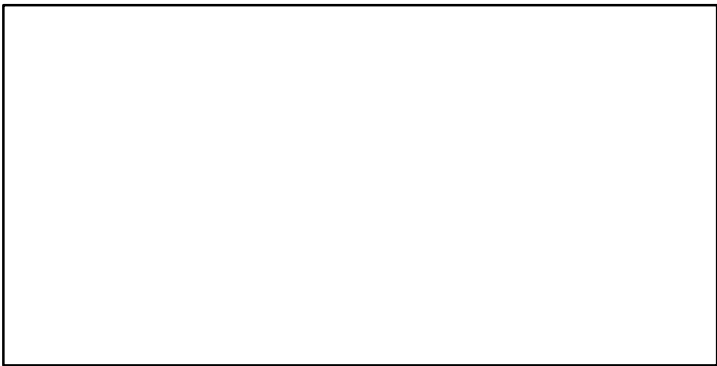


**Production\***



◆ Start Year    ◆ End Year    \* No Data

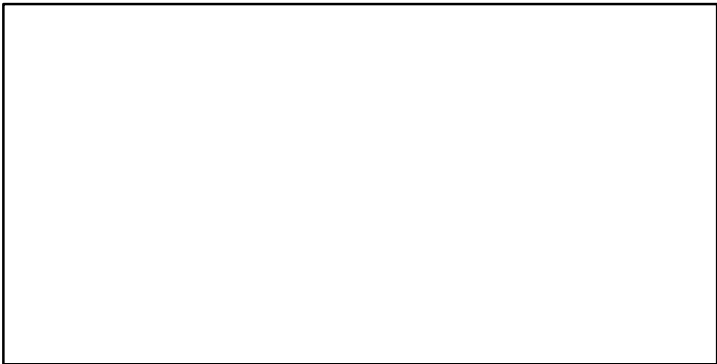
**TB\***



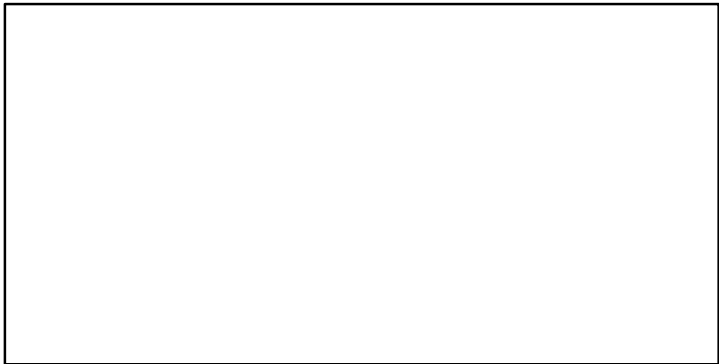
**SSB\***



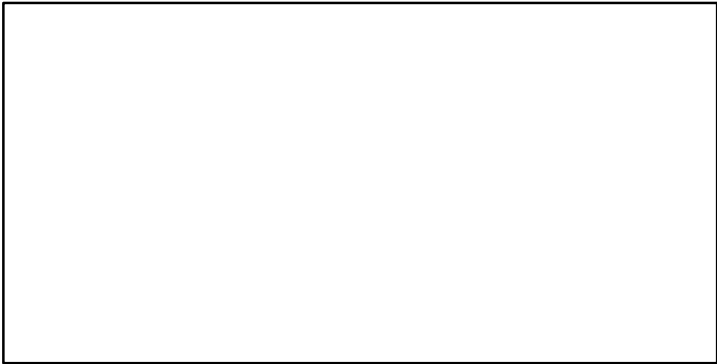
**TN \***



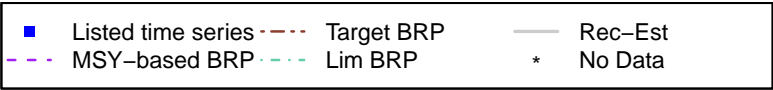
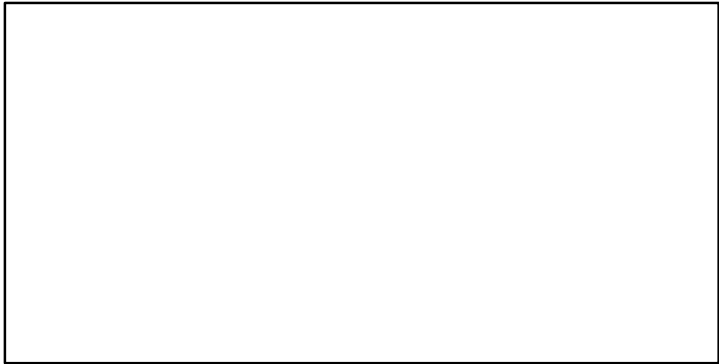
**F\***



**ER\***



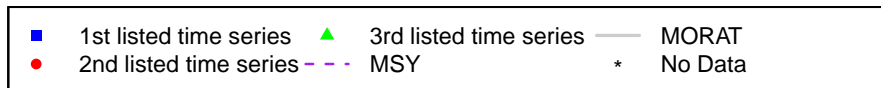
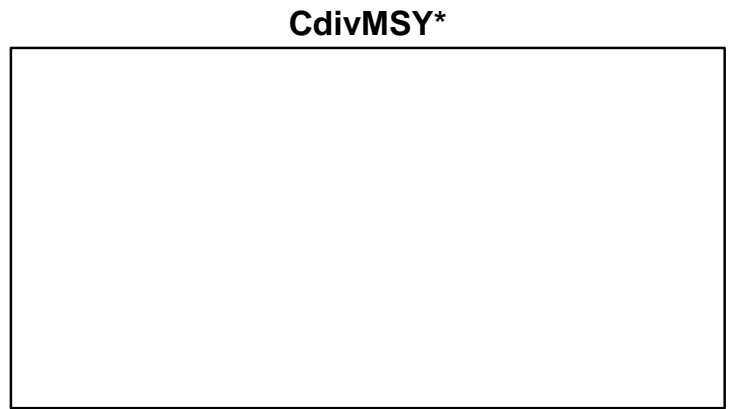
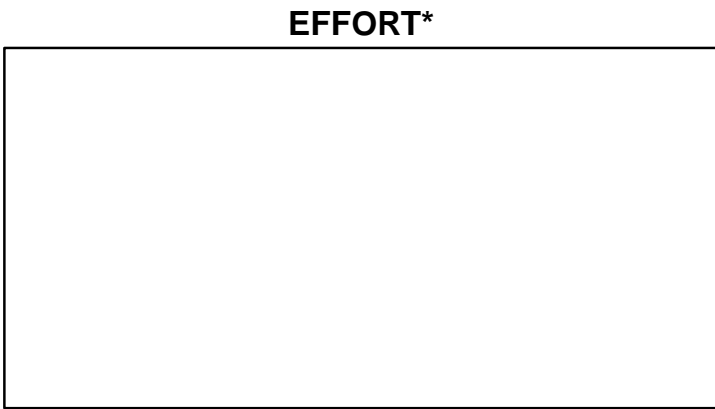
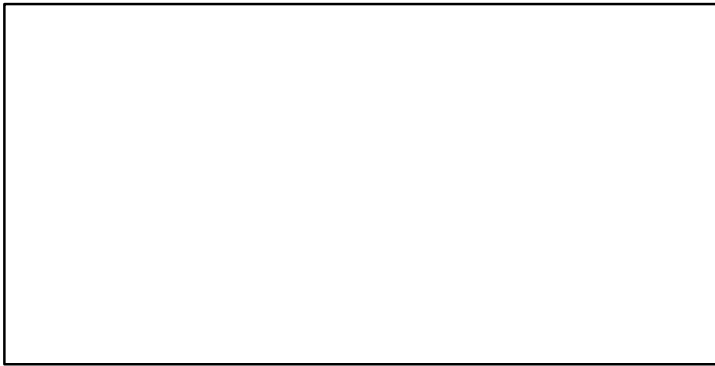
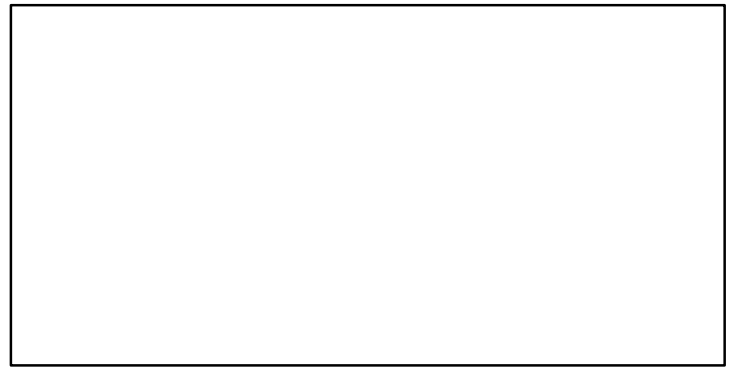
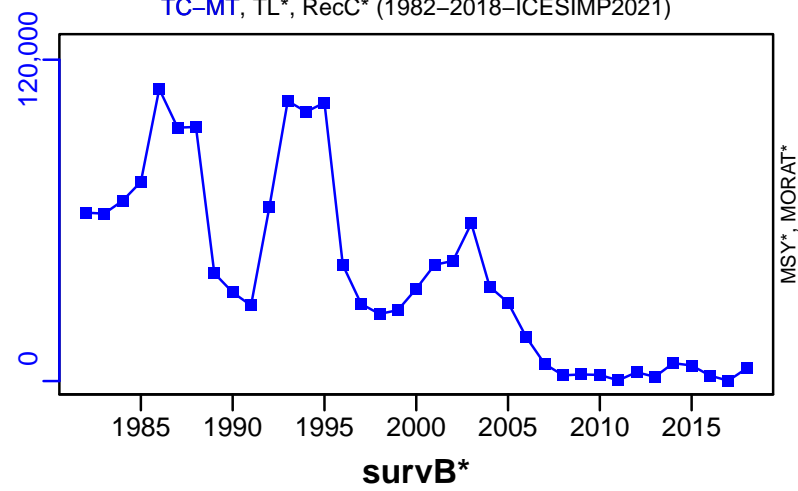
**Recruits\***



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

TC–MT, TL\*, RecC\* (1982–2018–ICESIMP2021)

TAC\*, Cpair\*, Cadv\*



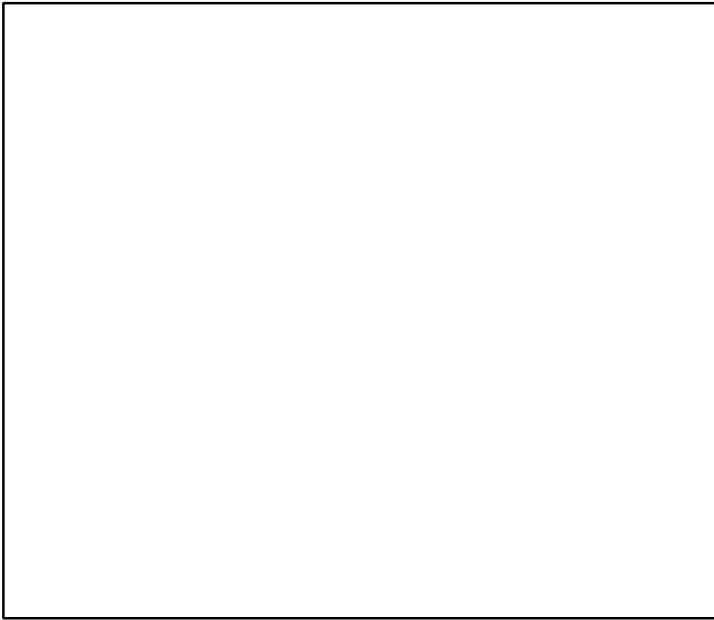
### Beaked redfish ICES 5a-14 [REDDEEPVa-XIV]

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

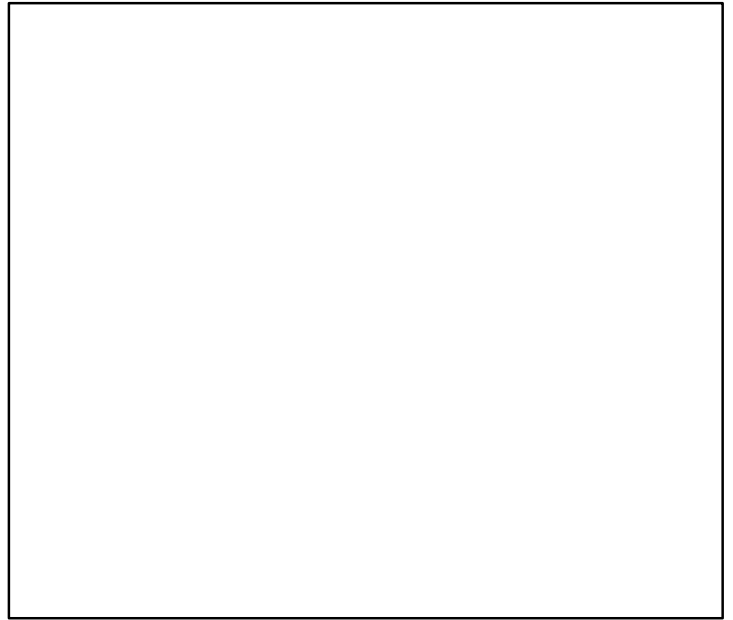
Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	-	-	-
ERmsy	-	-	-
TBmgt	-	-	-
SSBmgt	-	-	-
Fmgt	-	-	-
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	-	-	-
Flim	-	-	-
ERlim	-	-	-

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	-	-	-		

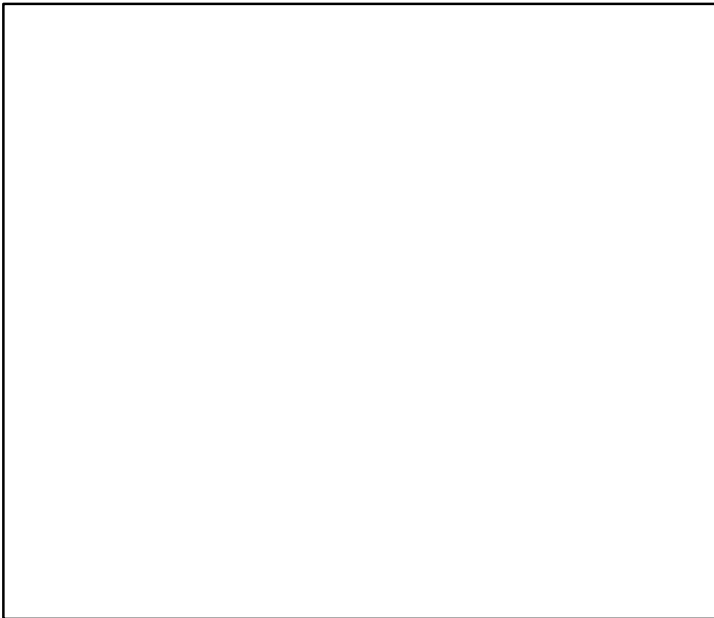
**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



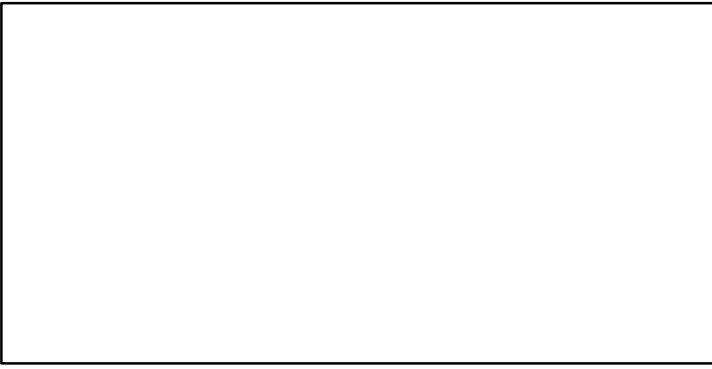
**Production\***



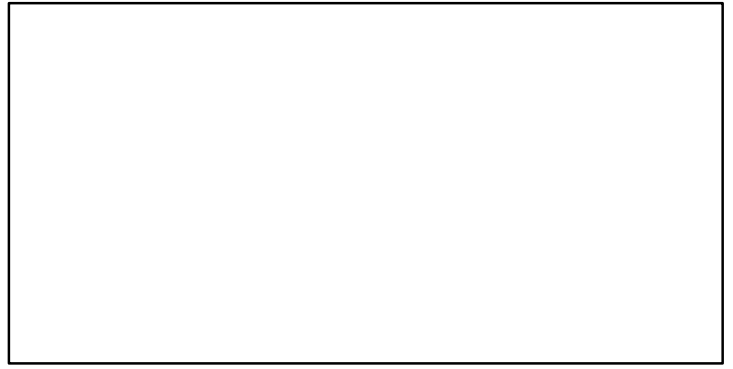
◆ Start Year ◆ End Year \* No Data

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

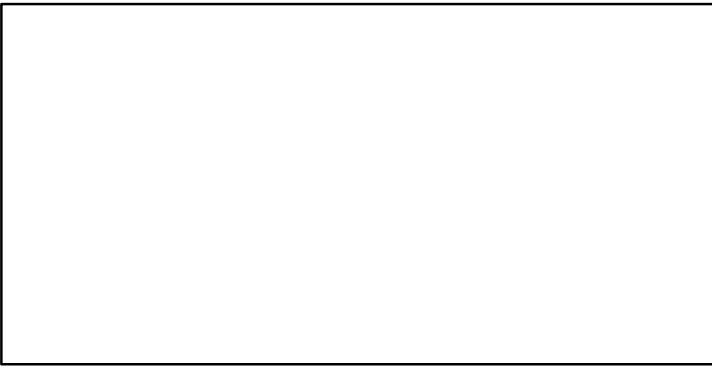
**TB\***



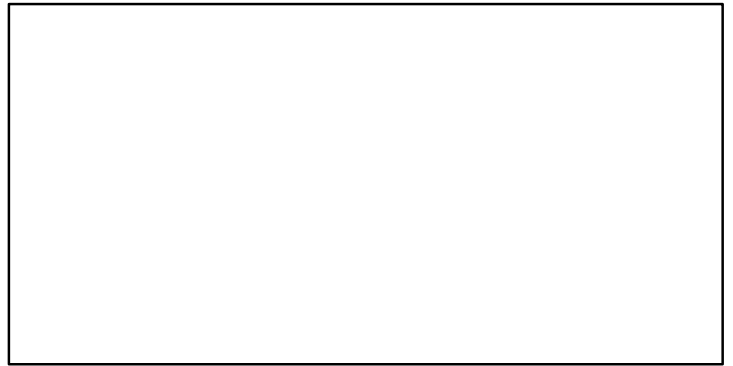
**SSB\***



**TN \***



**F\***



**ER\***



**Recruits\***

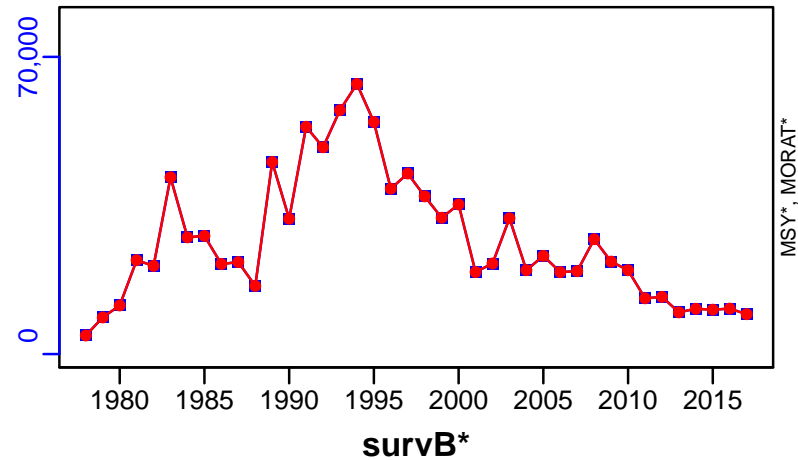




# Beaked redfish ICES 5a-14 [REDDEEPVa-XIV]

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

TAC\*, Cpair\*, Cadv\*



CPUE\*

EFFORT\*

CdivMSY\*

