

# Europe non EU Stocks

## v4.495 (Apr-17-2021)

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 [Pollock Faroe Plateau]	TB SSB	ER F	TB SSB	ER F	
25. POLLIEG [Pollock Iceland Grounds]	TB SSB	ER F	TB SSB	ER F	
26. POLLNEAR [Pollock North-East Arctic]	TB SSB	ER F	TB SSB	ER F	
27. REDDEEPDP-1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep)]	TB SSB	ER F	TB SSB	ER F	
28. REDDEEPI-II [Deepwater redfish North-East Arctic]	TB SSB	ER F	TB SSB	ER F	
29. REDDEEPSH1-2-V-XII-XIV [Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (shallow)]	TB SSB	ER F	TB SSB	ER F	
30. REDDEEPPVa-XIV [Beaked redfish ICES 5a-14]	TB SSB	ER F	TB SSB	ER F	

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

Metadata	
<b>Scientific Name</b>	Molva dypterygia
<b>Current Assess ID</b>	WGDEEP-BLINGVa-XIV-1973-2018-ICESIMP2021
<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, 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	R-E00	2018	26,400	-	-
F	F-1/yr	2016	0.834	-	-
ER	-	-	-	-	-
TC	TC-MT	2018	592		
TL	TL-MT	2016	1810		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



◆ Start Year ◆ End Year \* No Data

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

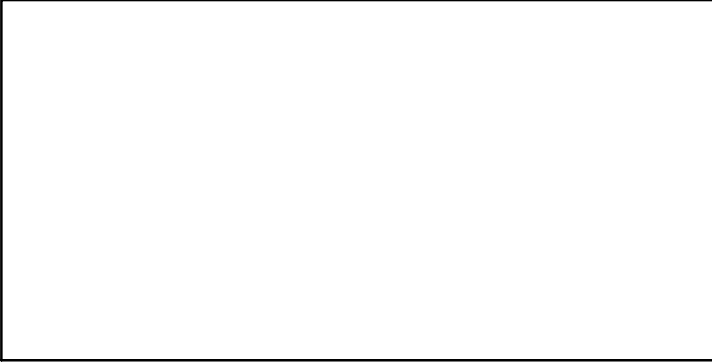
TB\*



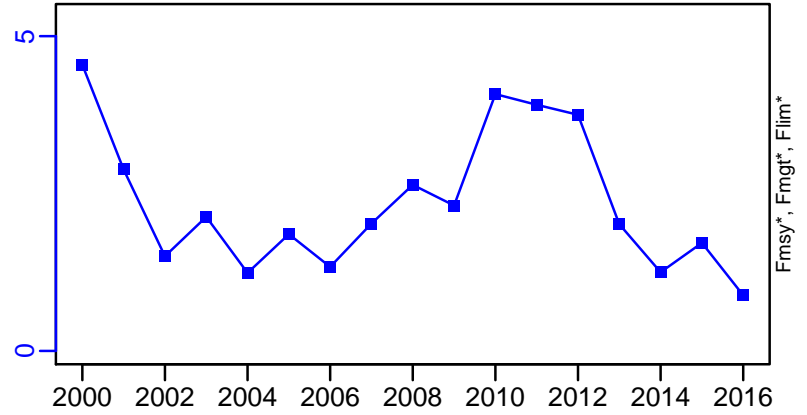
SSB\*



TN \*



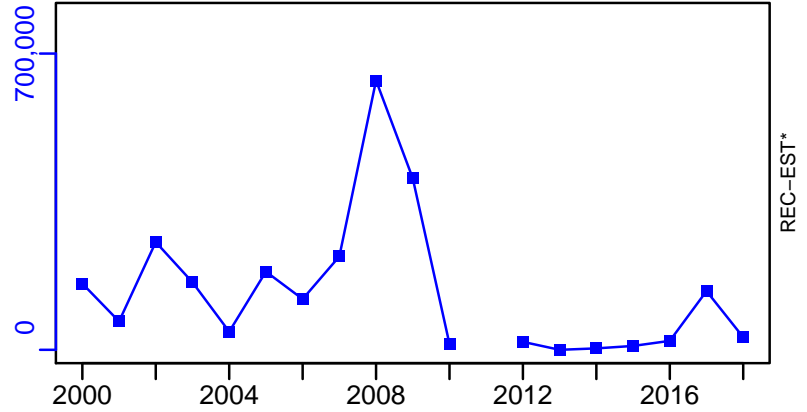
F-1/yr (2000-2016-ICESIMP2018)



ER\*

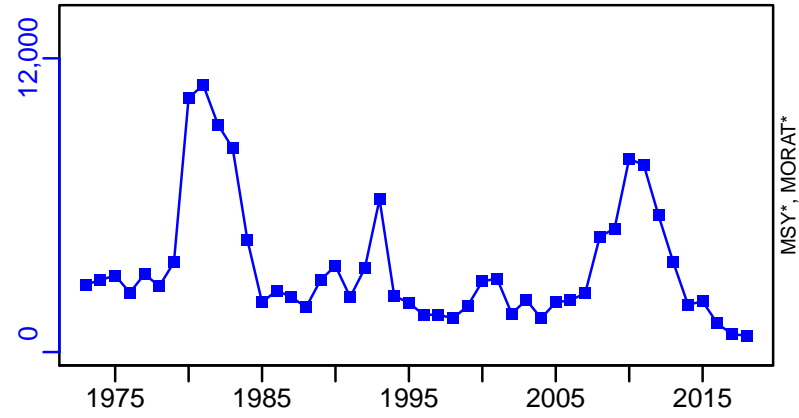


R-E00 (1973-2018-ICESIMP2021)



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

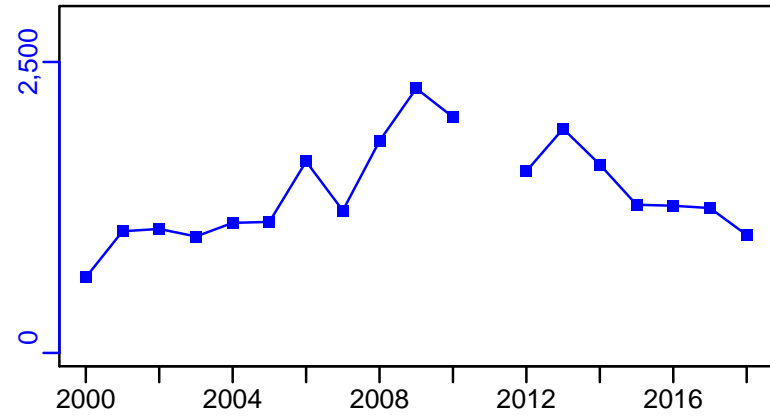
TC-MT, TL\*, RecC\* (1973-2018-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



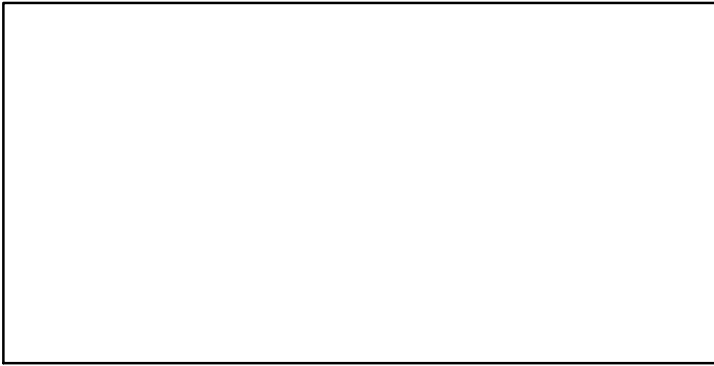
survB-MT (1973-2018-ICESIMP2021)



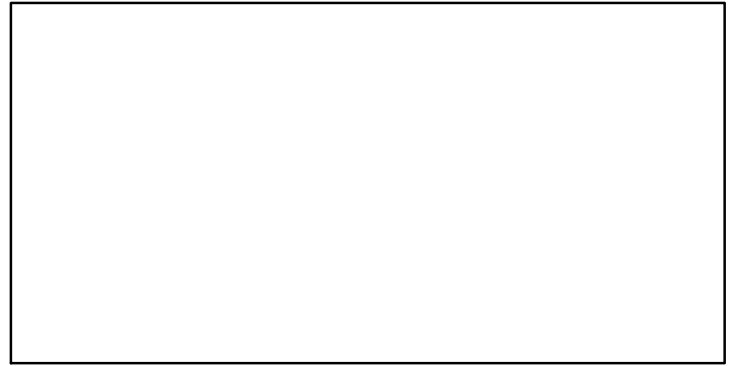
CPUE\*



EFFORT\*



CdivMSY\*



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

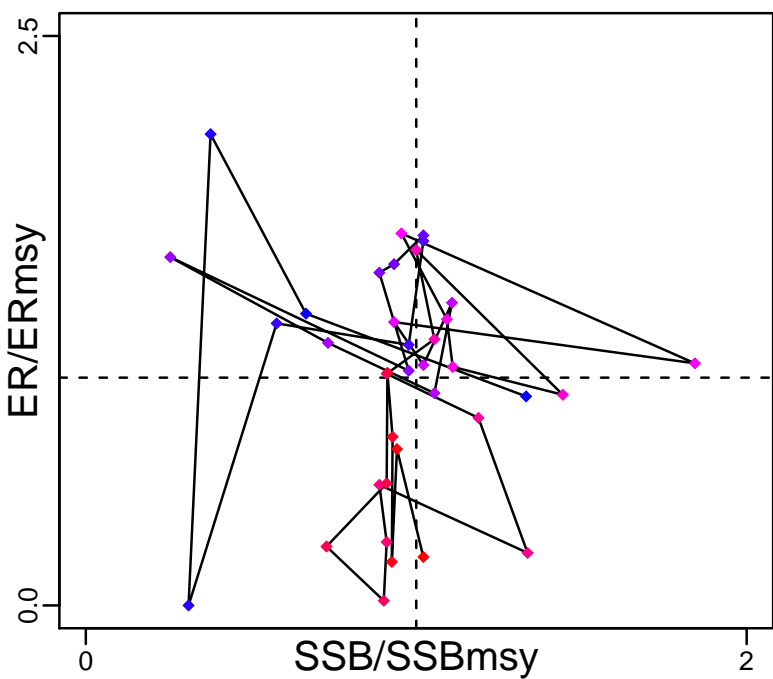
Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	NWWG-CAPElla-V-XIV-1979-2019-ICESIMP2021
<b>Area</b>	ICES 2a-5-14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2010, 2014, 2016, 2015, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	SSBmsy-est-MT	2016	450,271
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2016	0.743
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	150,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2016	801,421
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	150,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

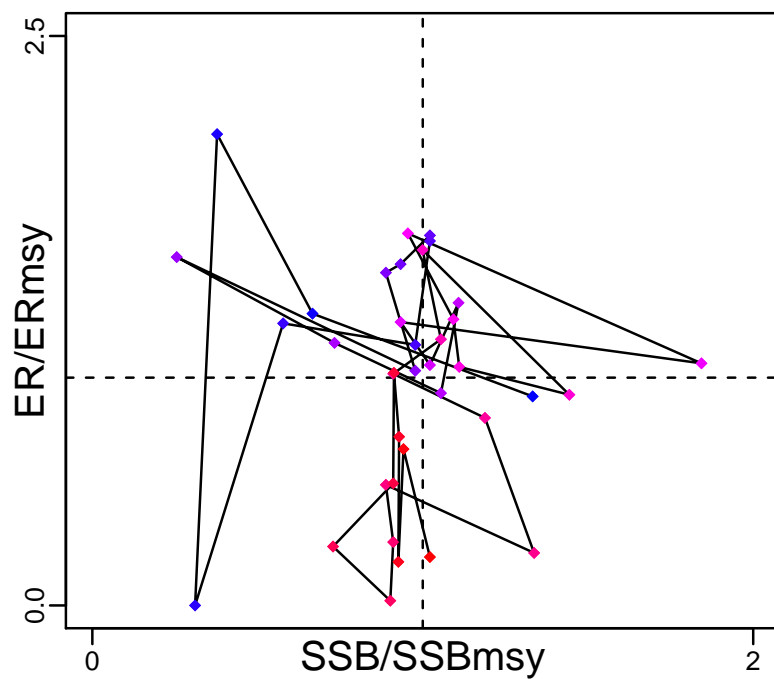
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2019	82,790	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-index	2019	82,600,000	-	0
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2019	0	-	-
<b>TC</b>	TC-MT	2019	0		
<b>TL</b>	TL-MT	2019	0		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2016	0.675		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2016	0.213		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	0.552		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

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

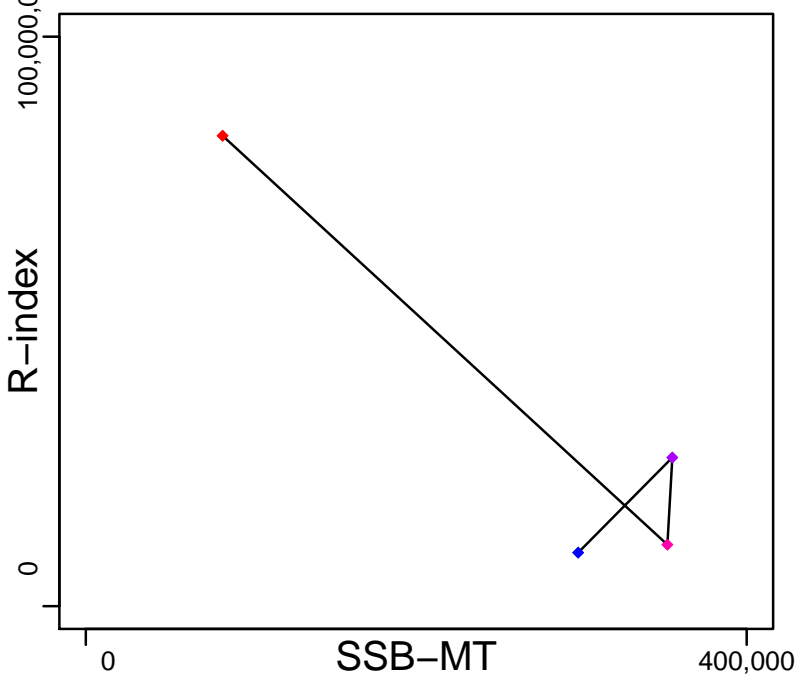
Kobe MSYpref (1978-2016-ICESIMP2016)



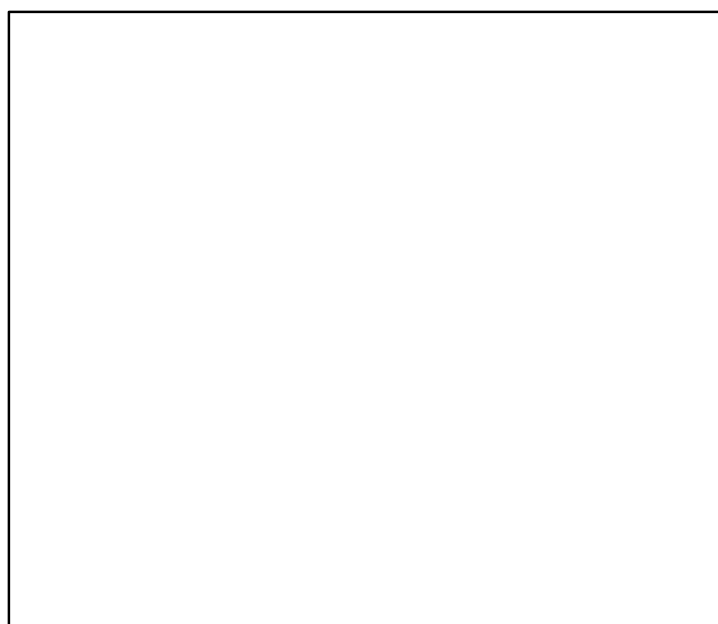
Kobe MGTpref (1978-2016-ICESIMP2016)



Spawner Recruit (1979-2019-ICESIMP2021)



Production\*



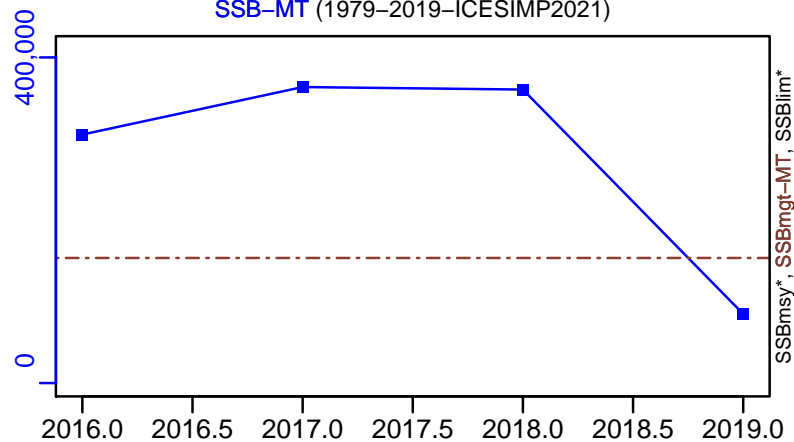
◆ Start Year ◆ End Year \* No Data

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

TB\*



SSB-MT (1979-2019-ICESIMP2021)



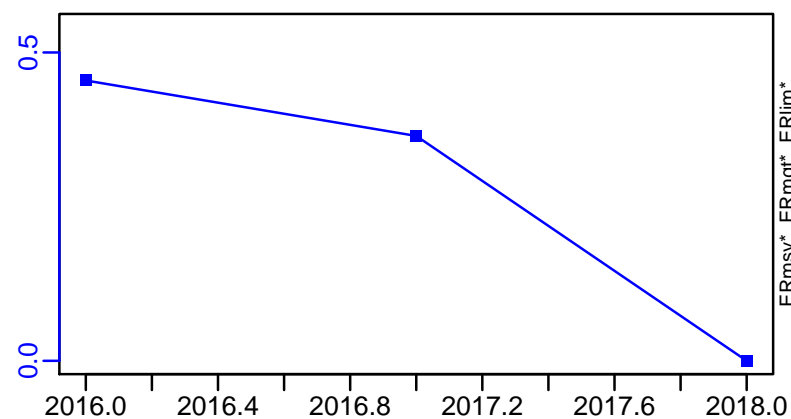
TN \*



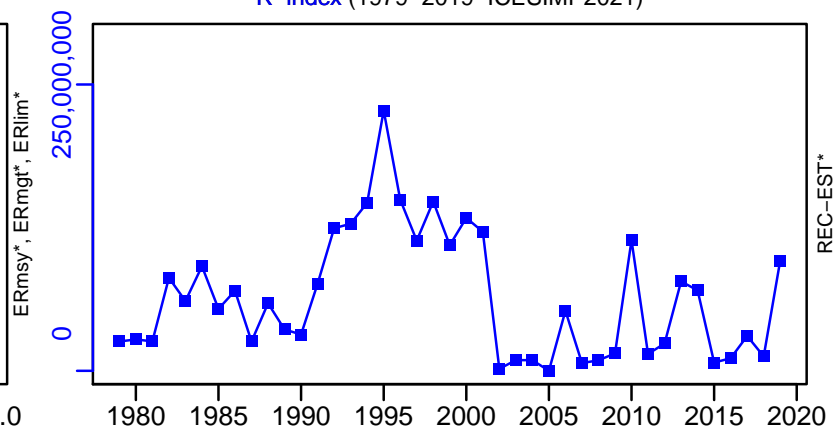
F\*



ER-calc-ratio (1979-2019-ICESIMP2021)



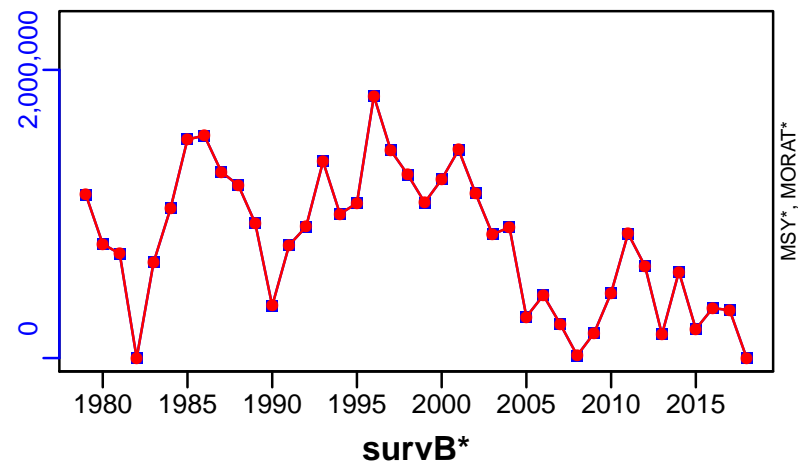
R-index (1979-2019-ICESIMP2021)





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

TC-MT, TL-MT, RecC\* (1979-2019-ICESIMP2021)



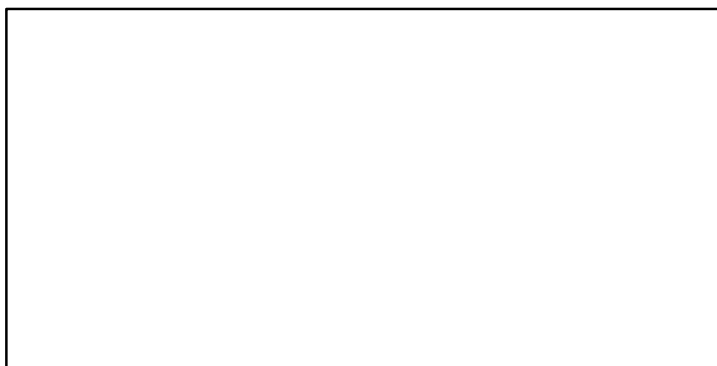
TAC\*, Cpair\*, Cadv\*



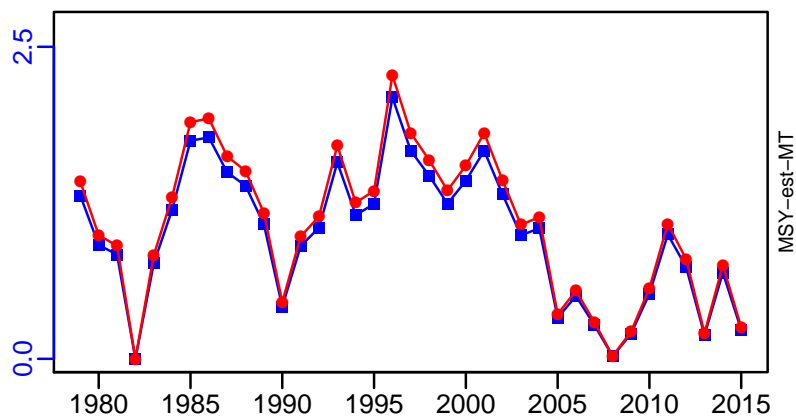
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1978-2016-ICESIMP2016)



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

## Capelin Barents Sea [CAPENOR]

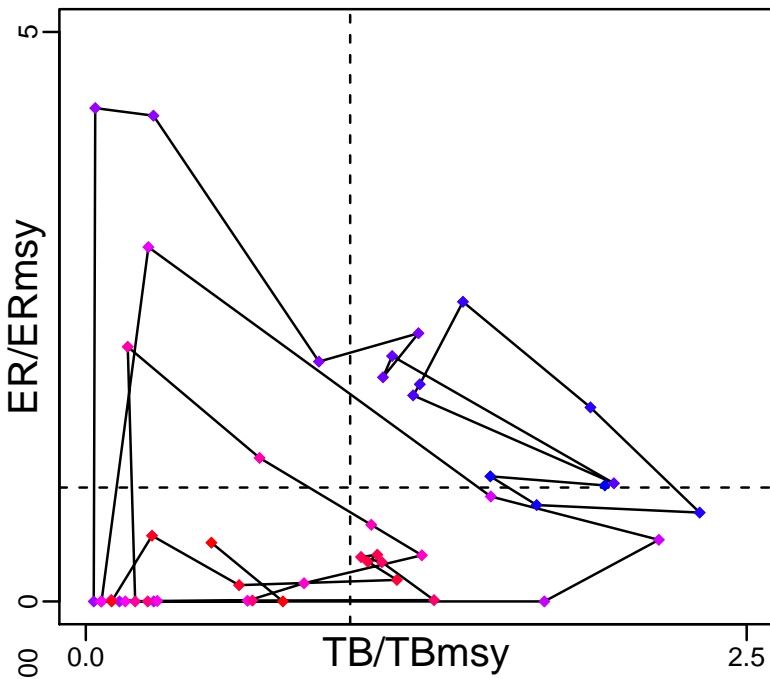
Metadata	
<b>Scientific Name</b>	Mallotus villosus
<b>Current Assess ID</b>	AFWG-CAPENOR-1972-2018-ICESIMP2021
<b>Area</b>	Barents Sea
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2007, 2016, 2017,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

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2018	3,361,471
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2018	0.237
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2018	795,468
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	$2 \times 10^5$
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

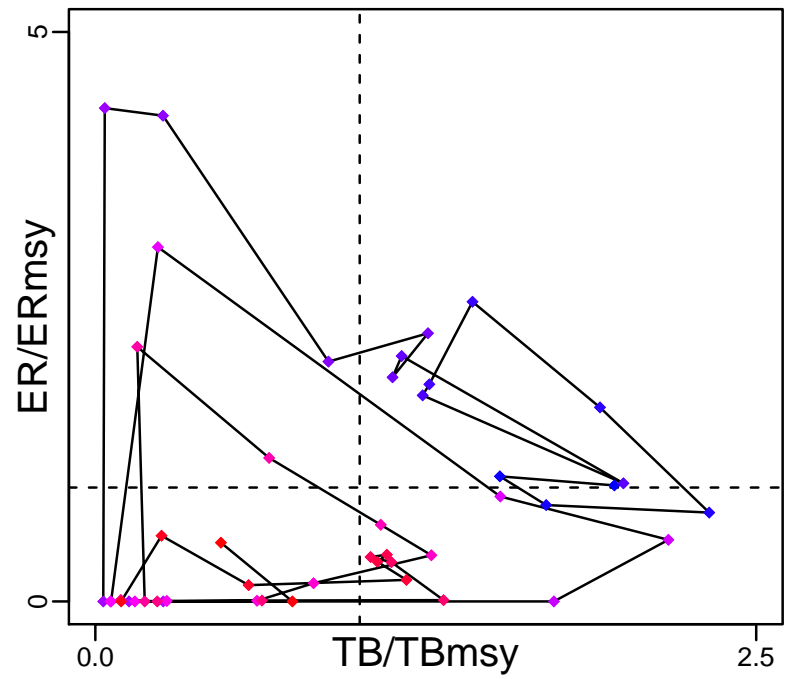
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2018	1,597,000	-	-
<b>SSB</b>	SSB-MT	2018	1,056,000	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	$5.86 \times 10^{10}$	-	1
<b>F</b>	-	-	-	-	-
<b>ER</b>	ER-calc-ratio	2018	0.122	-	-
<b>TC</b>	TC-MT	2018	195,000		
<b>TL</b>	TL-MT	2018	195,000		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2018	0.475		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2018	0.516		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Capelin Barents Sea [CAPENOR]

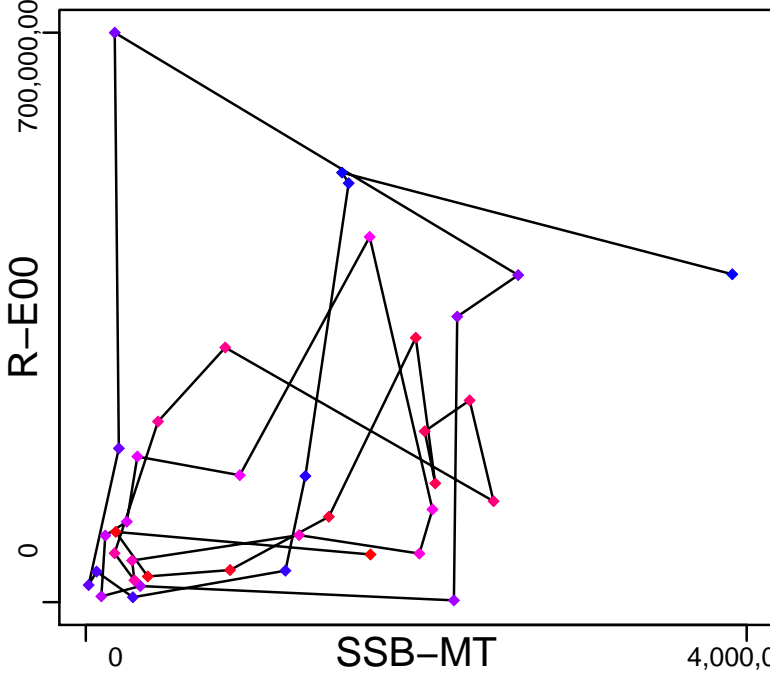
Kobe MSYpref (1972–2018–ICESIMP2021)



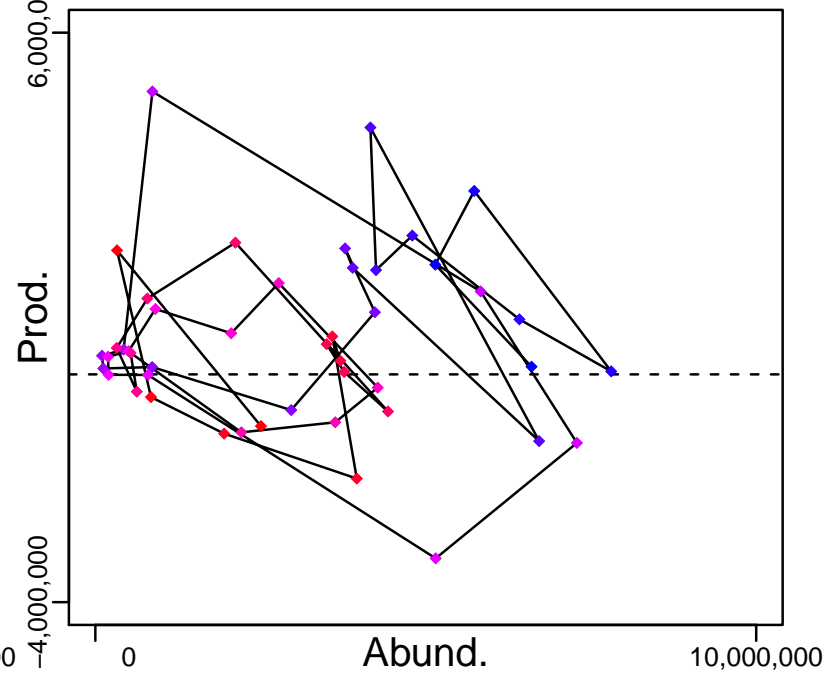
Kobe MGTpref (1972–2018–ICESIMP2021)



Spawner Recruit (1972–2018–ICESIMP2021)



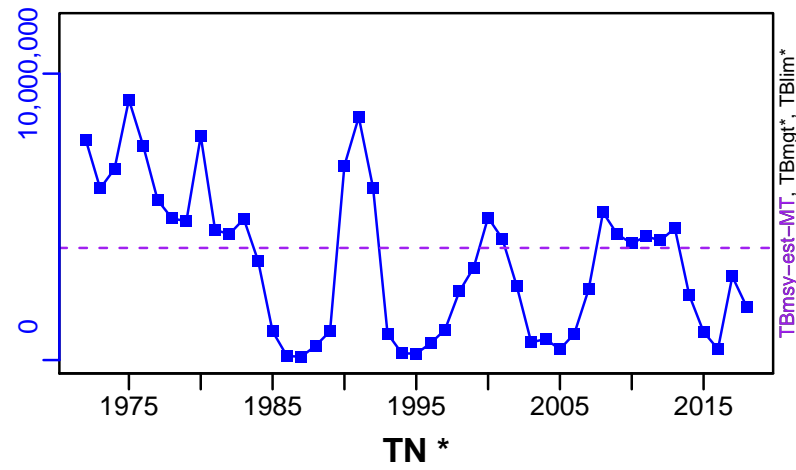
Production (1972–2018–ICESIMP2021)



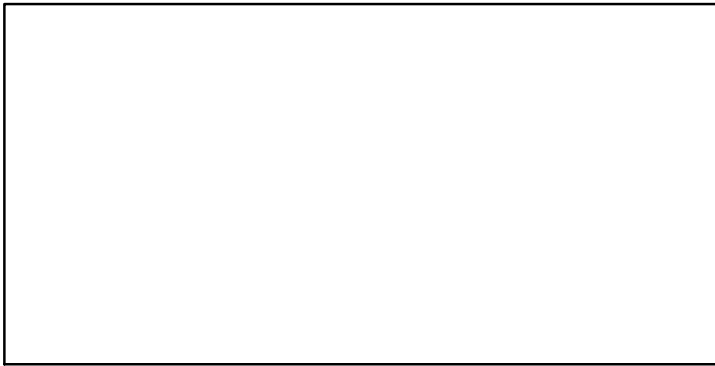
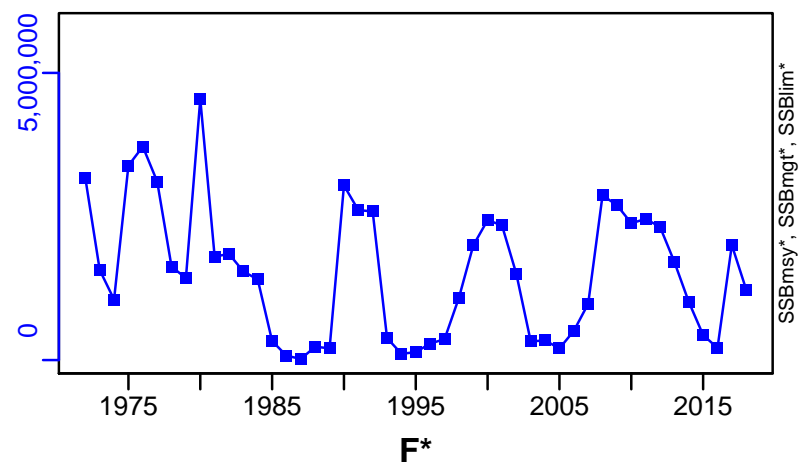
◆ Start Year ◆ End Year \* No Data

# Capelin Barents Sea [CAPENOR]

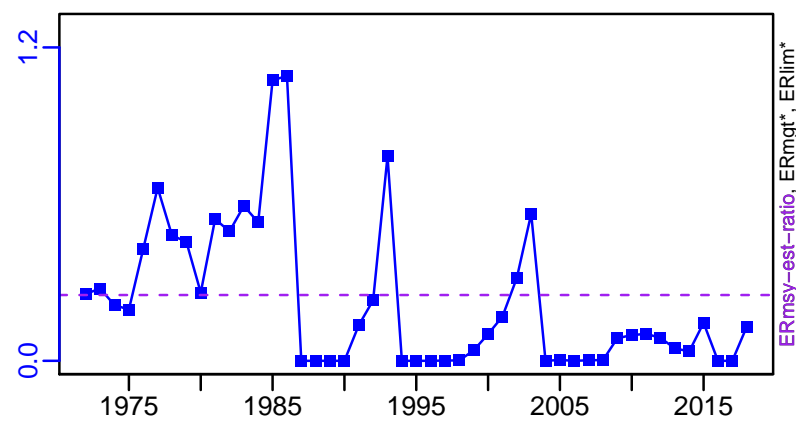
TB-MT (1972–2018–ICESIMP2021)



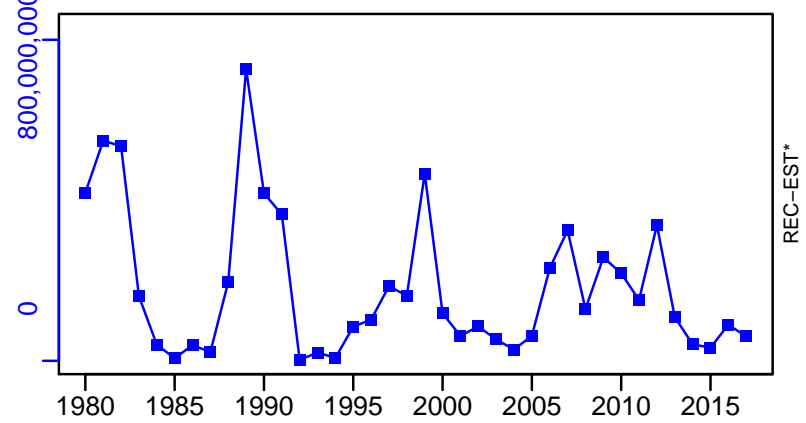
SSB-MT (1972–2018–ICESIMP2021)



ER-calc-ratio (1972–2018–ICESIMP2021)

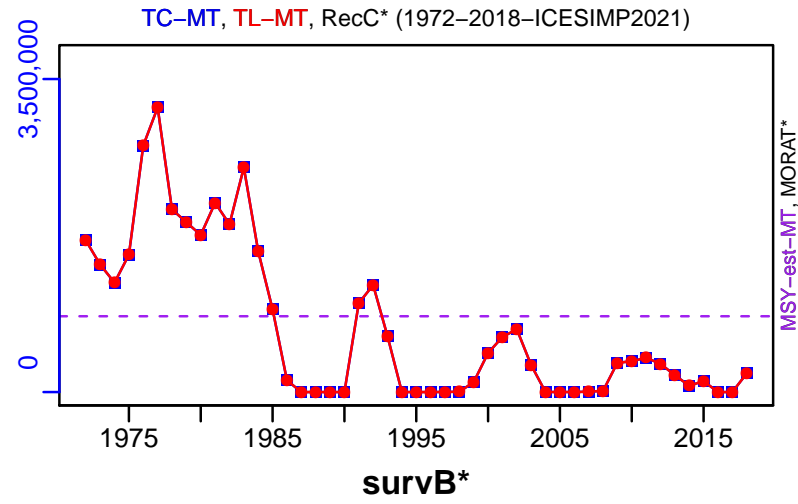


R-E00 (1972–2018–ICESIMP2021)



# Capelin Barents Sea [CAPENOR]

TC-MT, TL-MT, RecC\* (1972–2018–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



survB\*



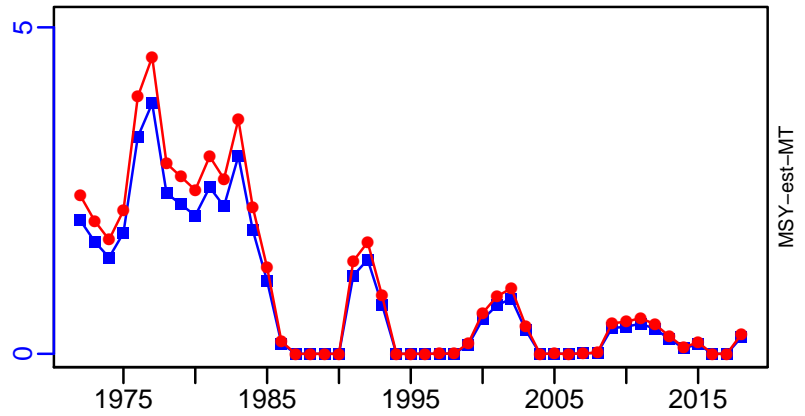
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1972–2018–ICESIMP2021)



- 1st listed time series (blue square)
- 2nd listed time series (red circle)
- 3rd listed time series (green triangle)
- MSY (purple dashed line)
- MORAT (grey line)
- No Data (\*)

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

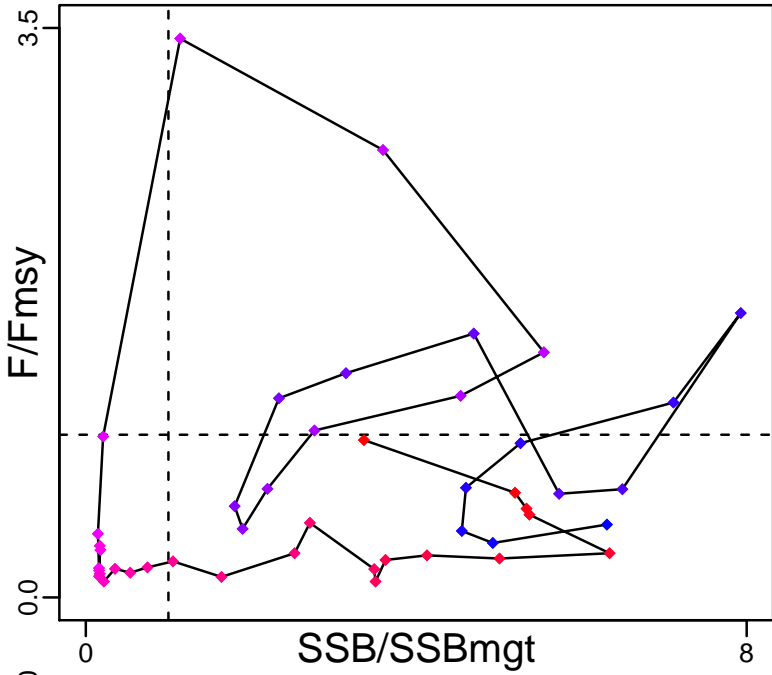
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-COD1F-XIV-1972-2019-ICESIMP2021
<b>Area</b>	NAFO 1F and ICES 14
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2019	0.46
<b>ERmsy</b>	-	-	-
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	14,803
<b>Fmgt</b>	Fmgt-1/yr	2019	0.46
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	10,354
<b>Flim</b>	Flim-1/yr	2018	2.34
<b>ERlim</b>	-	-	-

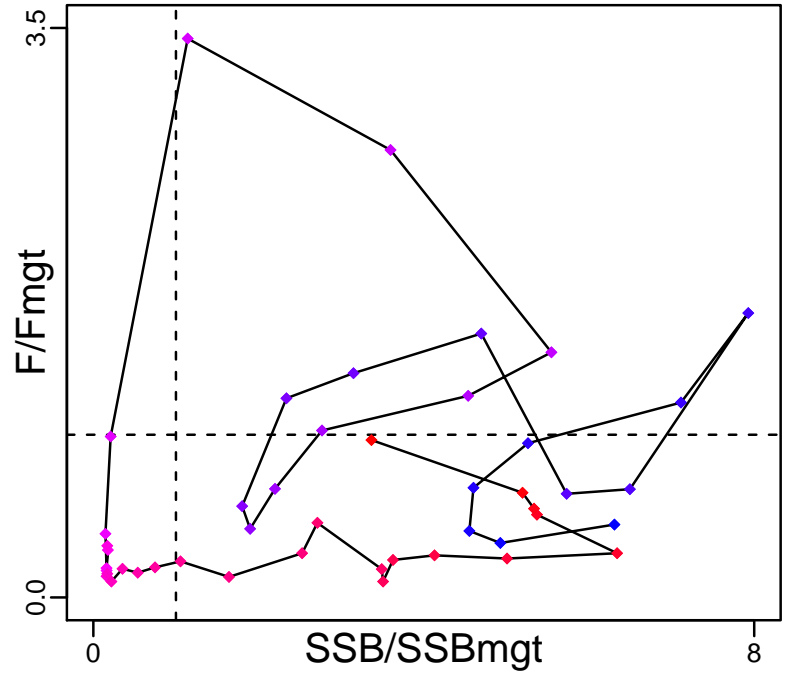
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	62,429	-	-
<b>SSB</b>	SSB-MT	2019	27,985	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	5,382,000	-	1
<b>F</b>	F-1/yr	2019	0.445	-	5 to 10
<b>ER</b>	ER-calc-ratio	2019	0.241	-	-
<b>TC</b>	TC-MT	2016	14,800		
<b>TL</b>	TL-MT	2019	15,068		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	0.967		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	1.89		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	0.967		
<b>ER/ERmgt</b>	-	-	-		

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

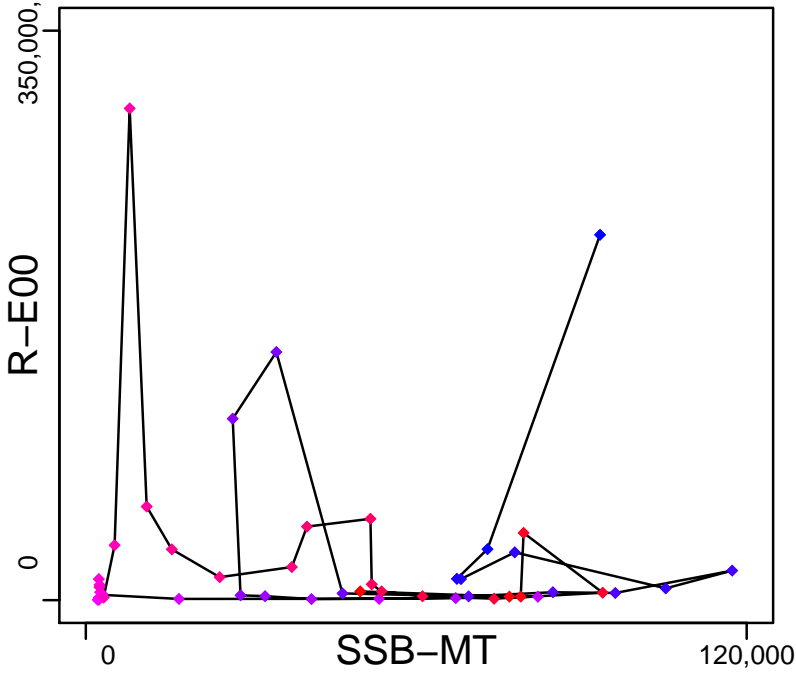
Kobe MSYpref (1972–2019–ICESIMP2021)



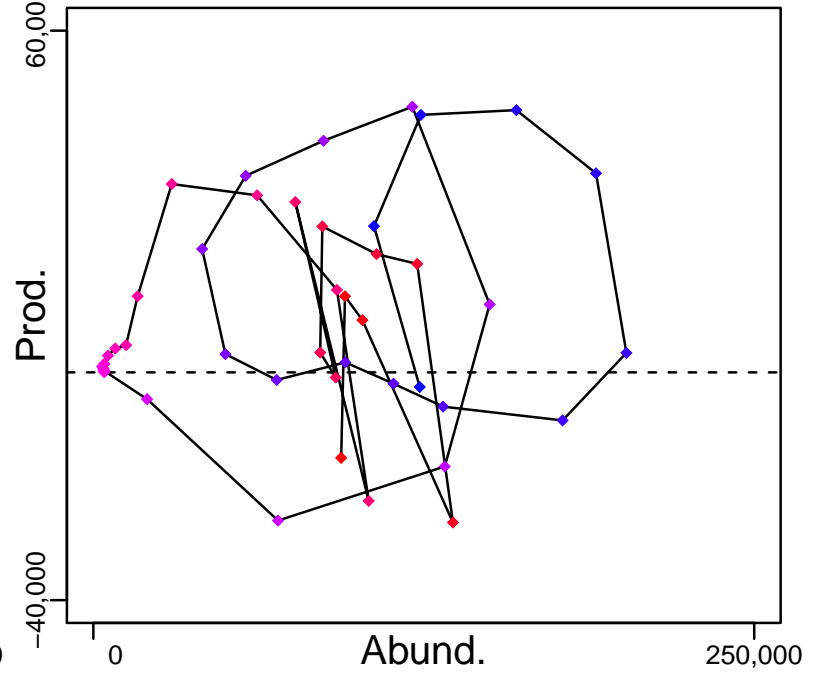
Kobe MGTpref (1972–2019–ICESIMP2021)



Spawner Recruit (1972–2019–ICESIMP2021)



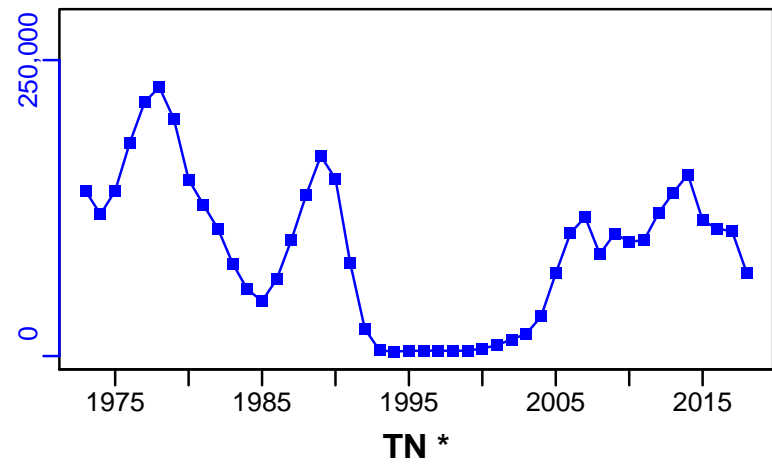
Production (1972–2019–ICESIMP2021)



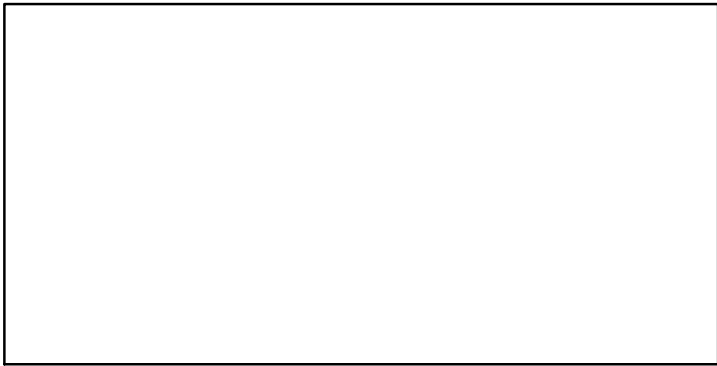
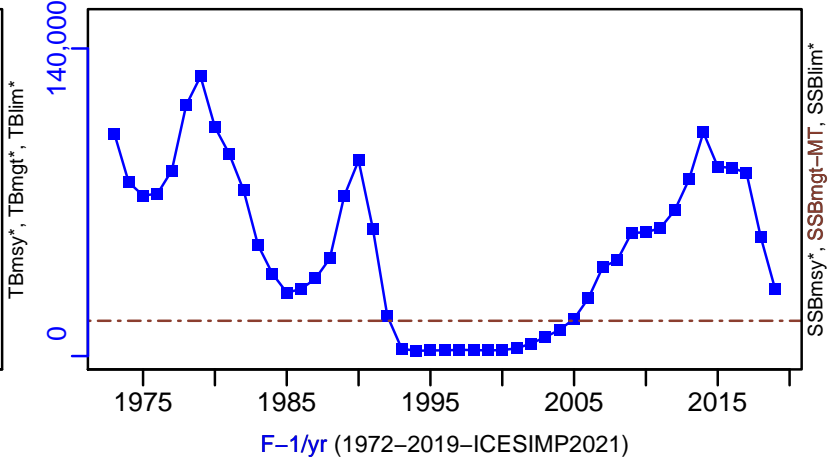
◆ Start Year ◆ End Year \* No Data

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

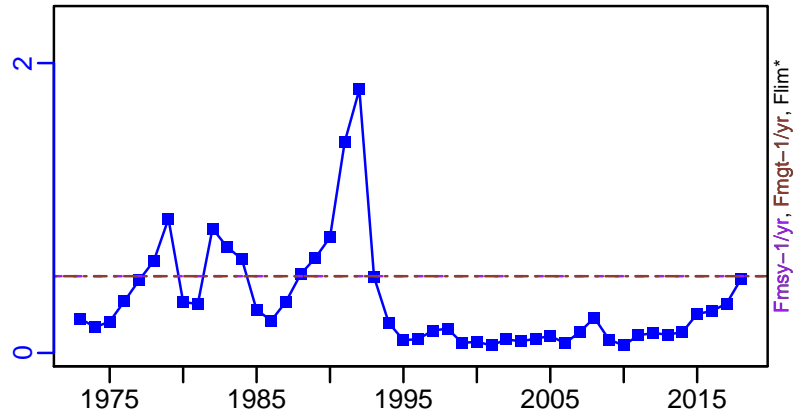
TB-MT (1972–2019–ICESIMP2021)



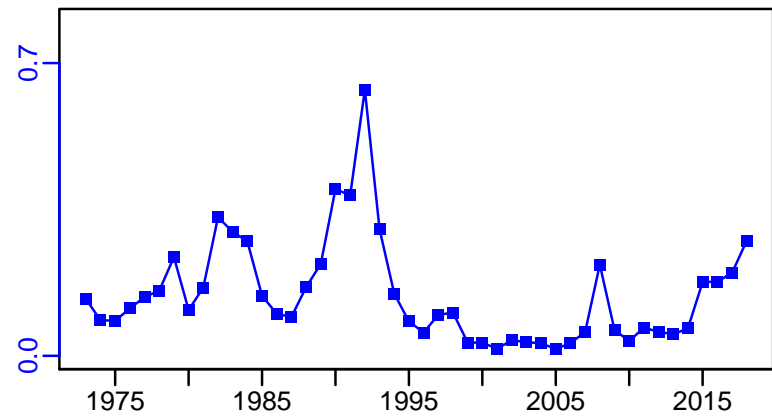
SSB-MT (1972–2019–ICESIMP2021)



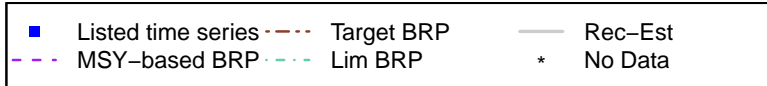
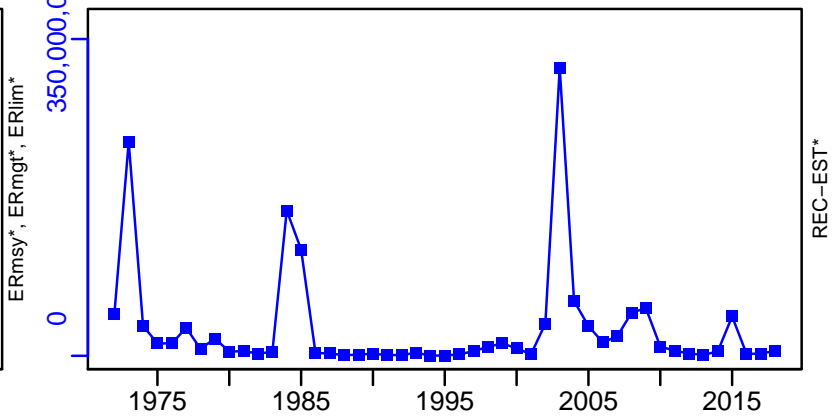
F-1/yr (1972–2019–ICESIMP2021)



ER-calc-ratio (1972–2019–ICESIMP2021)



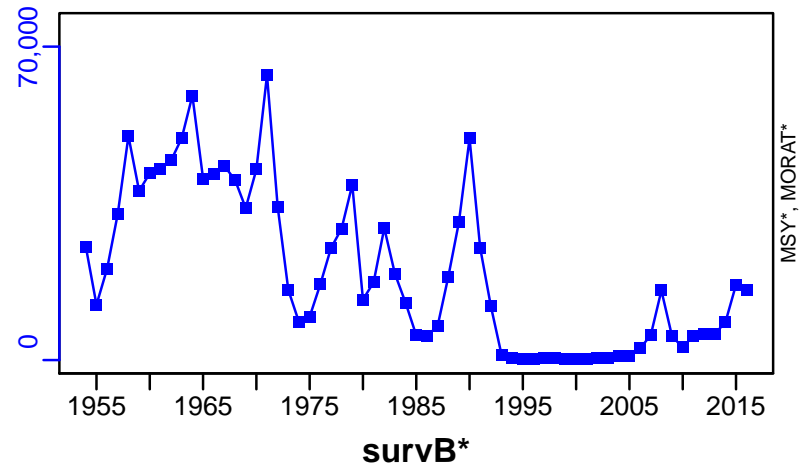
R-E00 (1972–2019–ICESIMP2021)





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

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



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	-	-	-		

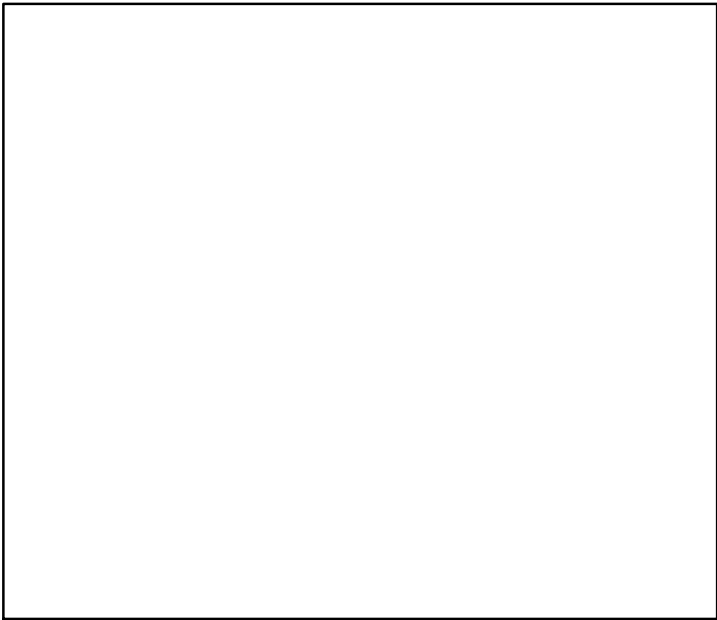
Kobe MSY\*



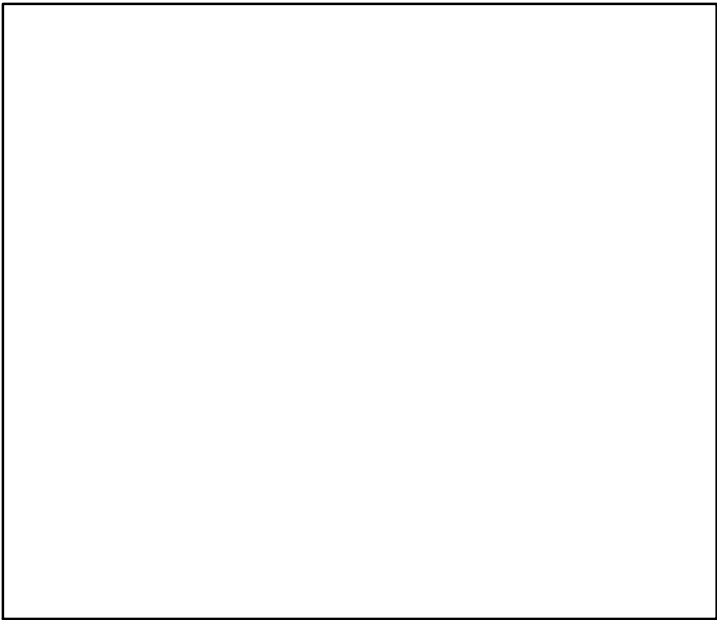
Kobe MGT\*



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

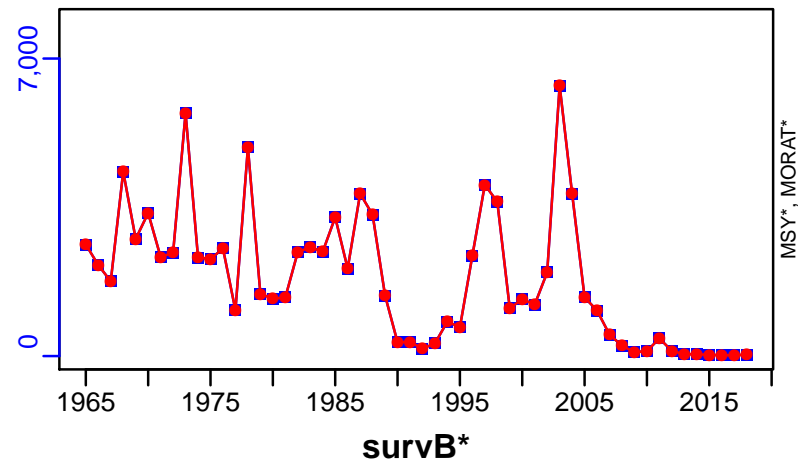
--- Lim BRP

— Rec-Est

\* No Data

# Atlantic cod Faroe Bank [CODFABNK]

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



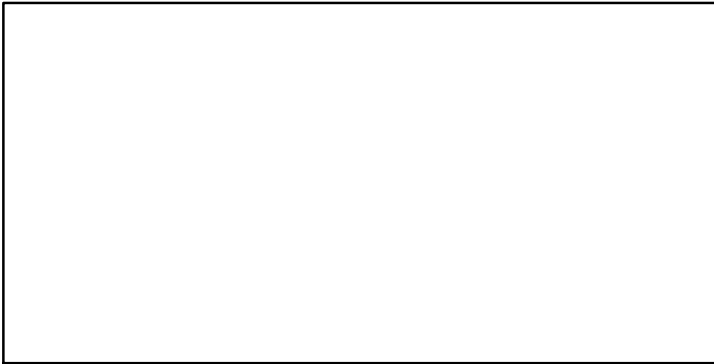
TAC\*, Cpair\*, Cadv\*



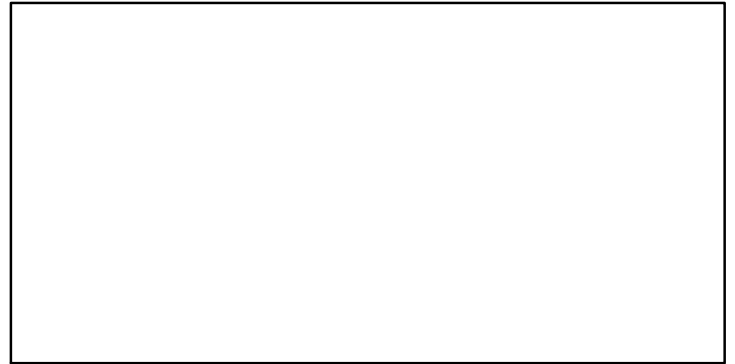
CPUE\*



EFFORT\*



CdivMSY\*



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

## Atlantic cod Faroe Plateau [CODFAPL]

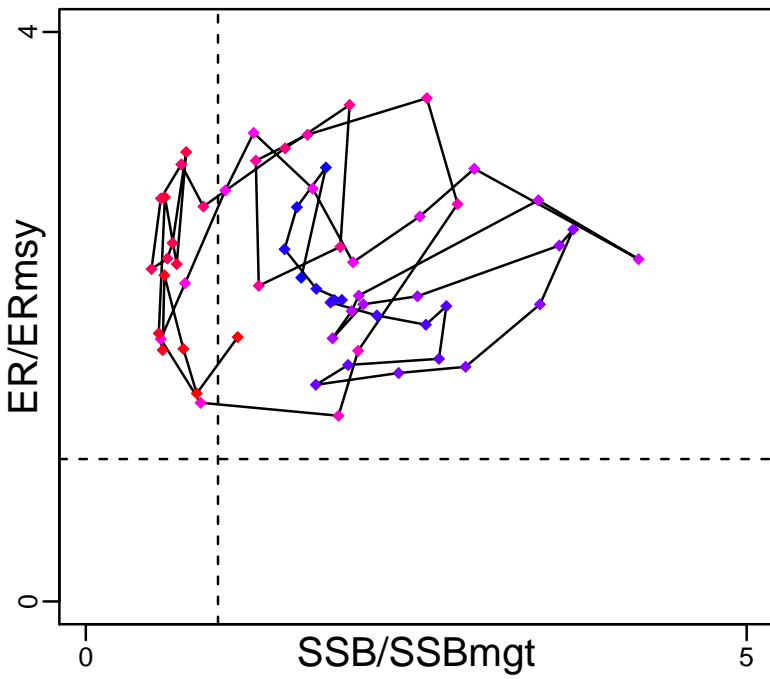
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODFAPL-1958-2019-ICESIMP2021
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2015, 2016, 2017, 2018, 2019, 2012, 2013, 2014

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	100,596
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.23
<b>ERmsy</b>	ERmsy-ratio	2019	0.23
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	29,226
<b>Fmgt</b>	Fmgt-1/yr	2018	0.23
<b>ERmgt</b>	ERmgt-ratio	2019	0.23
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	26,004
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	21,000
<b>Flim</b>	Flim-1/yr	2018	0.9
<b>ERlim</b>	-	-	-

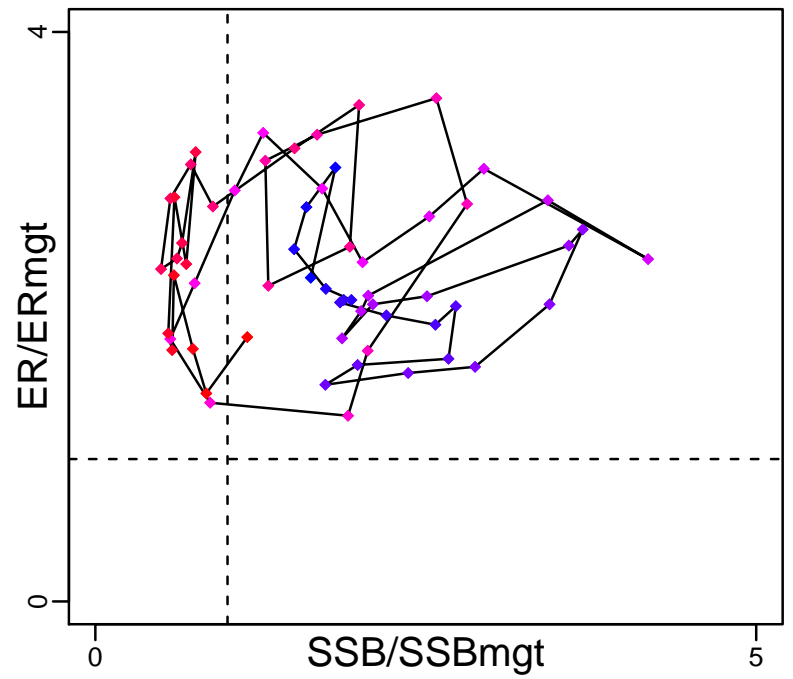
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	80,599	-	-
<b>SSB</b>	SSB-MT	2019	40,370	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	37,889,000	-	1
<b>F</b>	F-1/yr	2017	0.44	-	3 to 7
<b>ER</b>	ER-ratio	2019	0.427	-	3 to 7
<b>TC</b>	TC-MT	2019	12,311		
<b>TL</b>	TL-MT	2019	12,311		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.366		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	1.913		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2019	1.857		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	1.381		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2017	1.913		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Faroe Plateau [CODFAPL]

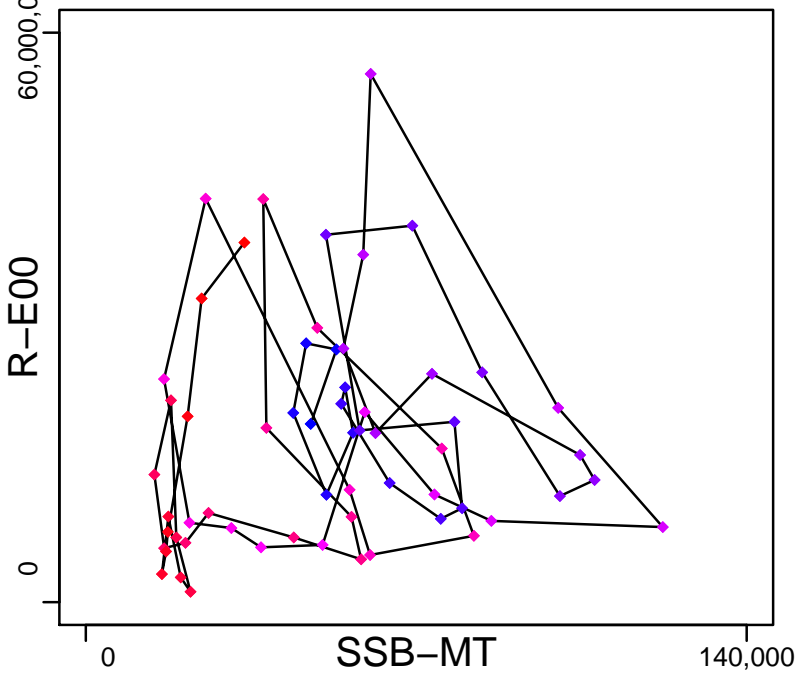
Kobe MSYpref (1958–2019–ICESIMP2021)



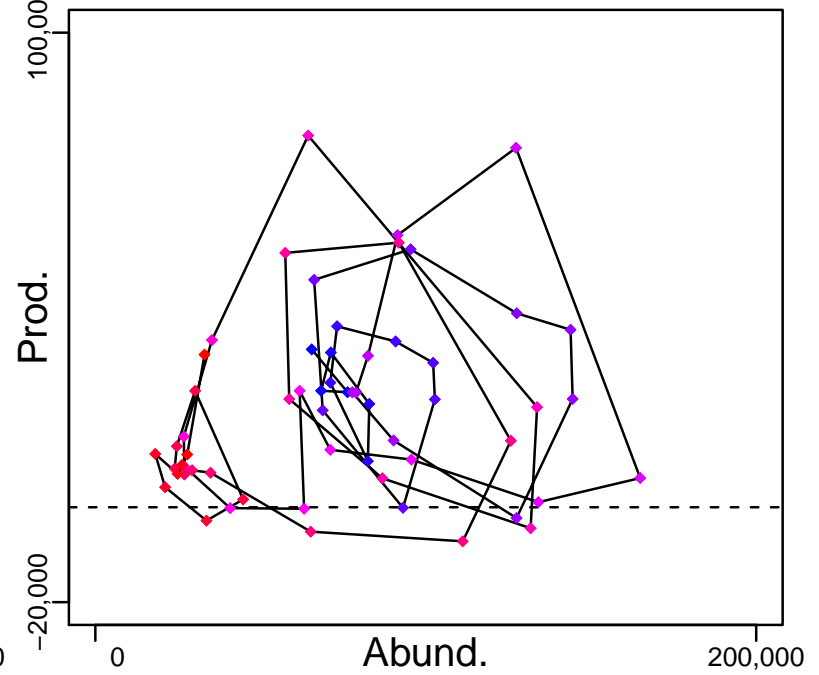
Kobe MGTpref (1958–2019–ICESIMP2021)



Spawner Recruit (1958–2019–ICESIMP2021)



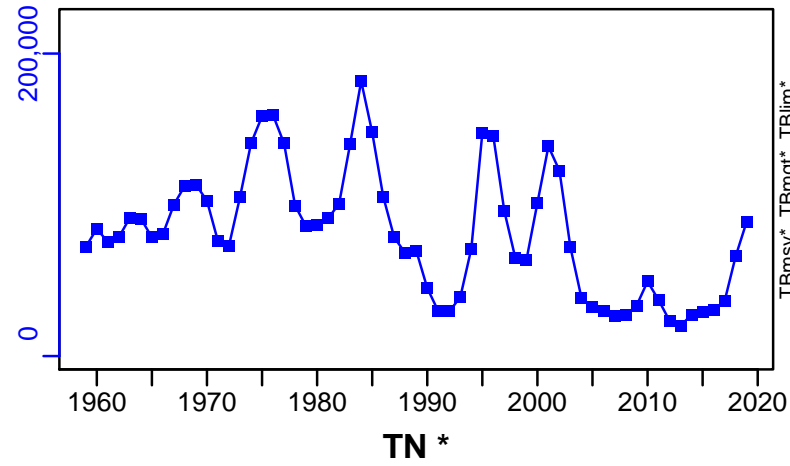
Production (1958–2019–ICESIMP2021)



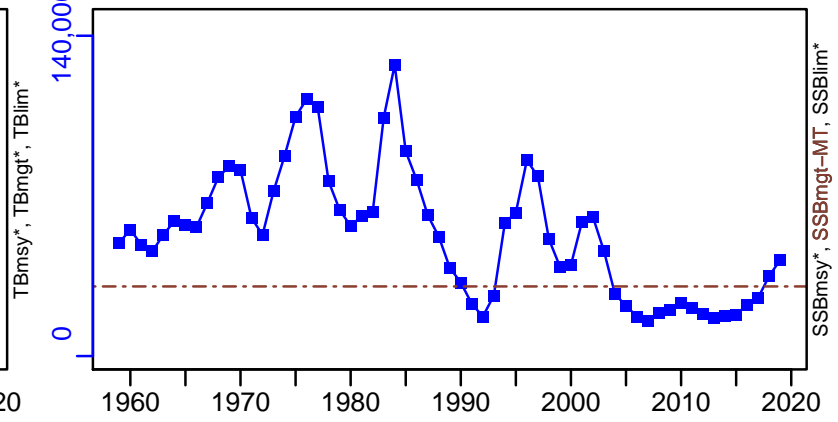
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Faroe Plateau [CODFAPL]

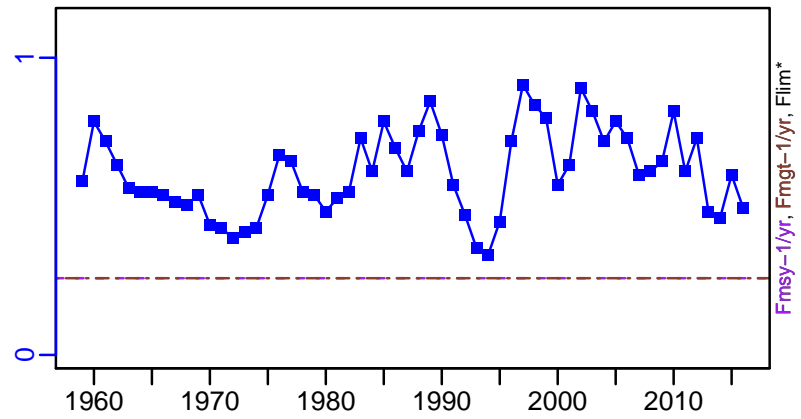
TB-MT (1958–2019–ICESIMP2021)



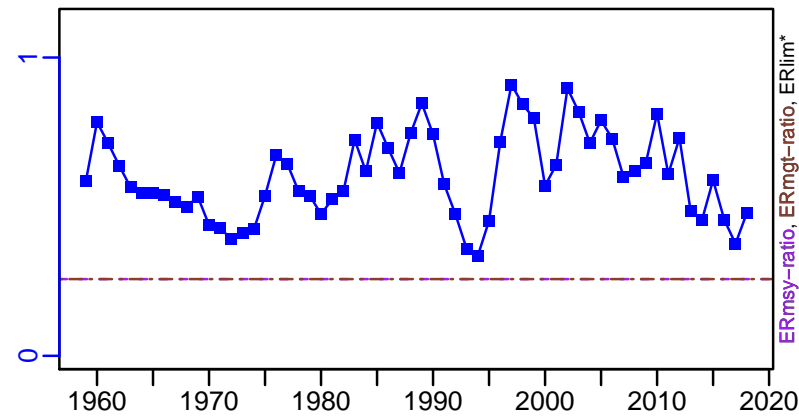
SSB-MT (1958–2019–ICESIMP2021)



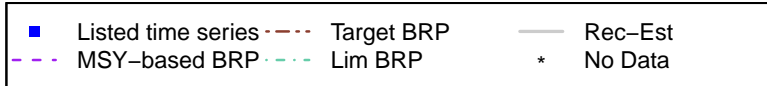
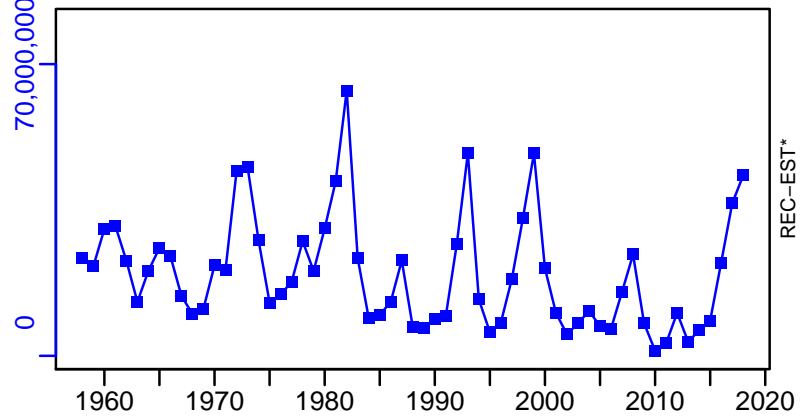
F-1/yr (1958–2017–ICESIMP2018)



ER-ratio (1958–2019–ICESIMP2021)



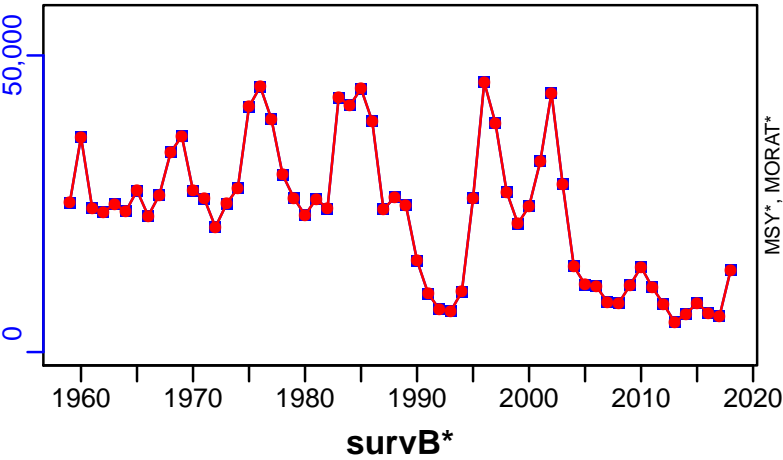
R-E00 (1958–2019–ICESIMP2021)





Atlantic cod Faroe Plateau [CODFAPL]

TC-MT, TL-MT, RecC\* (1958–2019–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



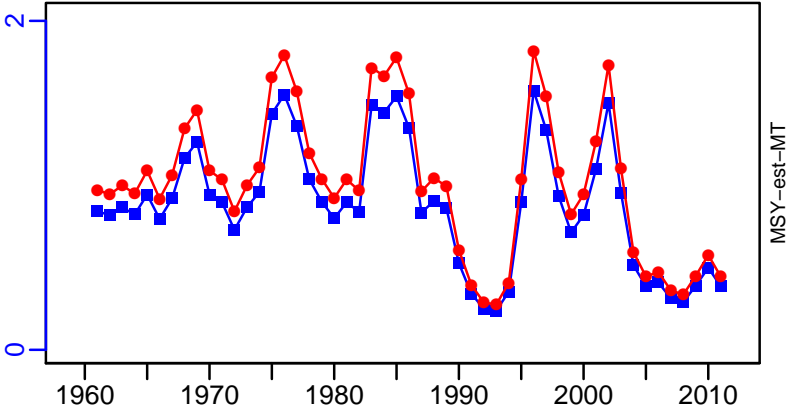
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1959–2012–CHING)



## Atlantic cod Iceland Grounds [CODICE]

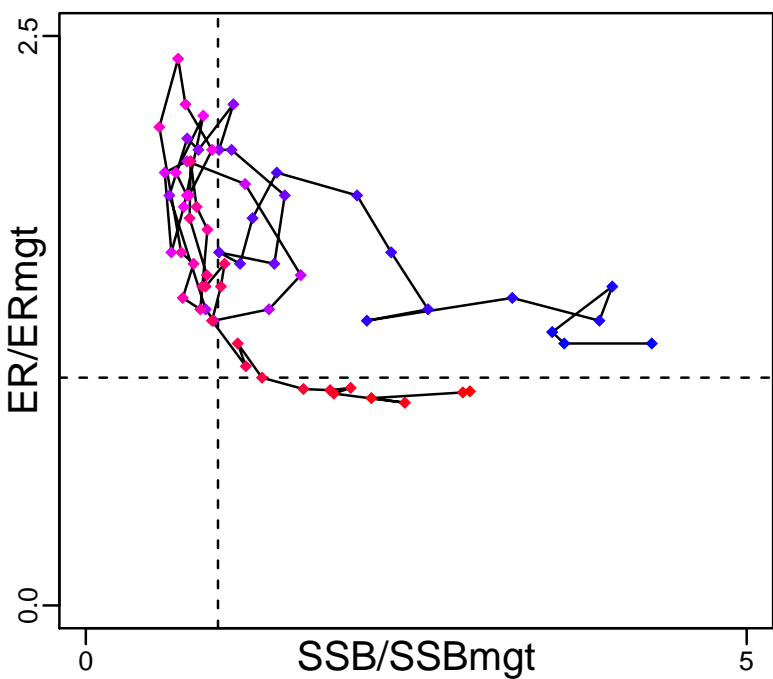
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	NWWG-CODICE-1952-2019-ICESIMP2021
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	1,529,811
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-ratio	2018	0.2
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	220,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	ERmgt-ratio	2019	0.2
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	359,258
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2012	125,000
<b>SSBlim</b>	SSBlim-MT	2018	125,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	-	-	-

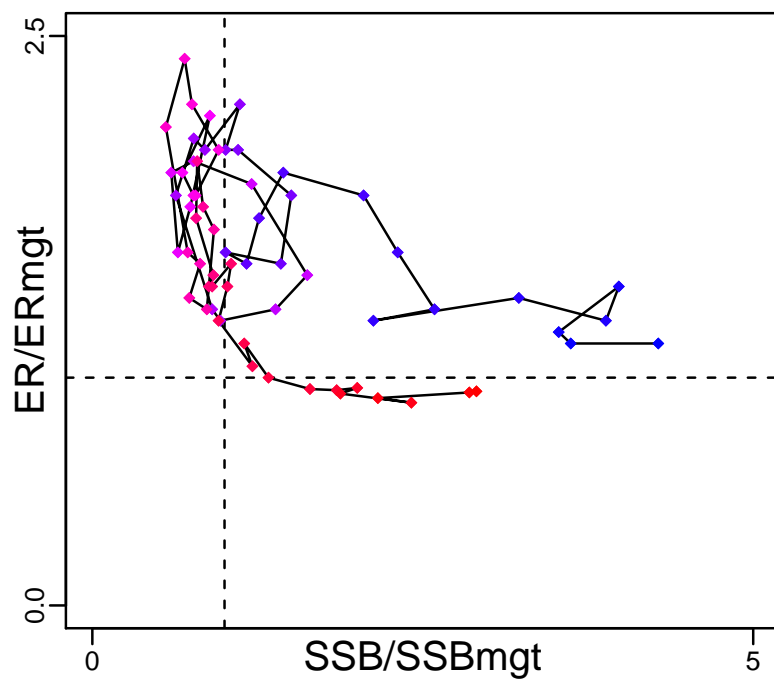
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2014	1,160,000	Both	-
<b>SSB</b>	SSB-MT	2019	617,019	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	139,117,000	-	3
<b>F</b>	F-1/yr	2019	0.27	-	5 to 10
<b>ER</b>	ER-ratio	2019	0.188	-	-
<b>TC</b>	TC-MT	2019	264,992		
<b>TL</b>	TL-MT	2019	264,992		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.699		
<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	2019	2.805		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod Iceland Grounds [CODICE]

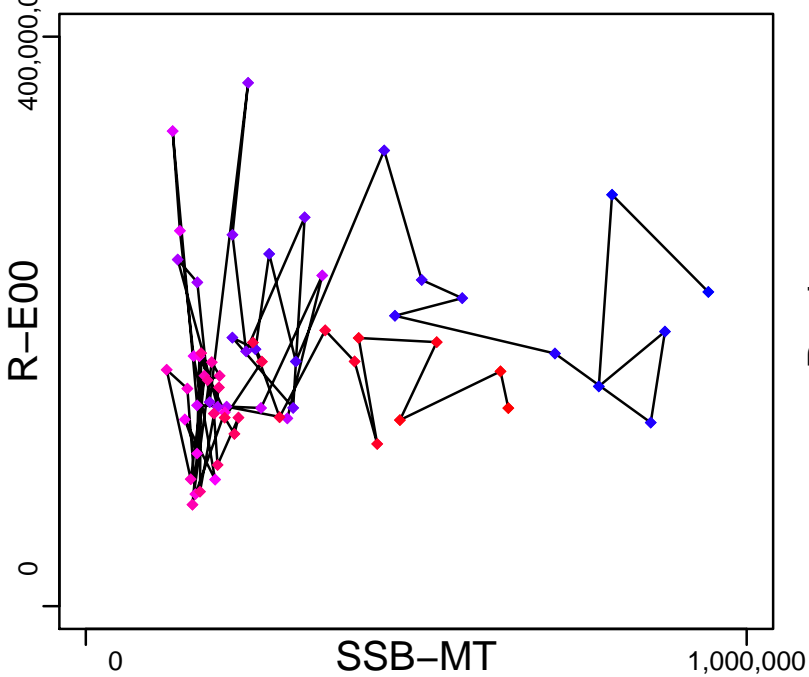
Kobe MSYpref (1952–2019–ICESIMP2021)



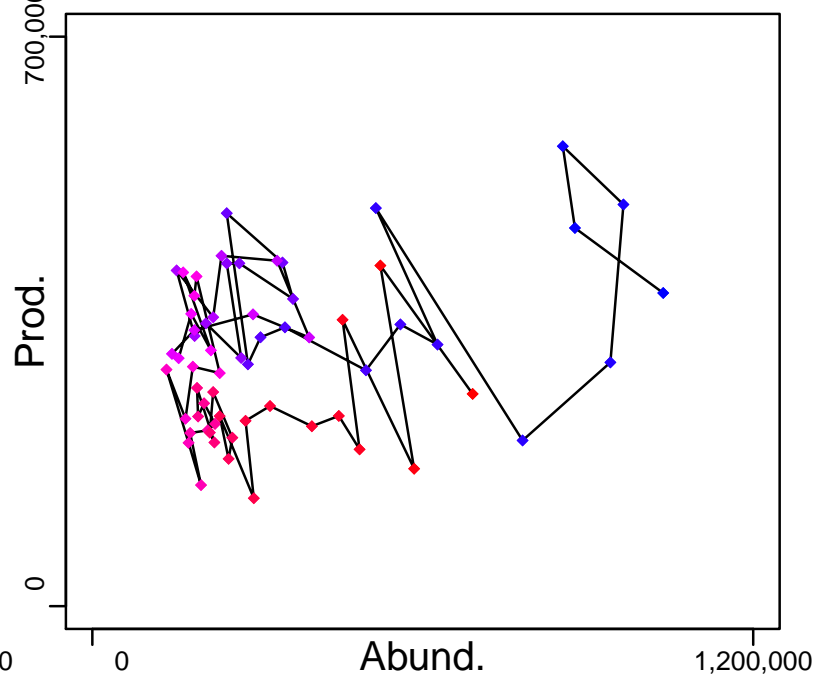
Kobe MGTpref (1952–2019–ICESIMP2021)



Spawner Recruit (1952–2019–ICESIMP2021)



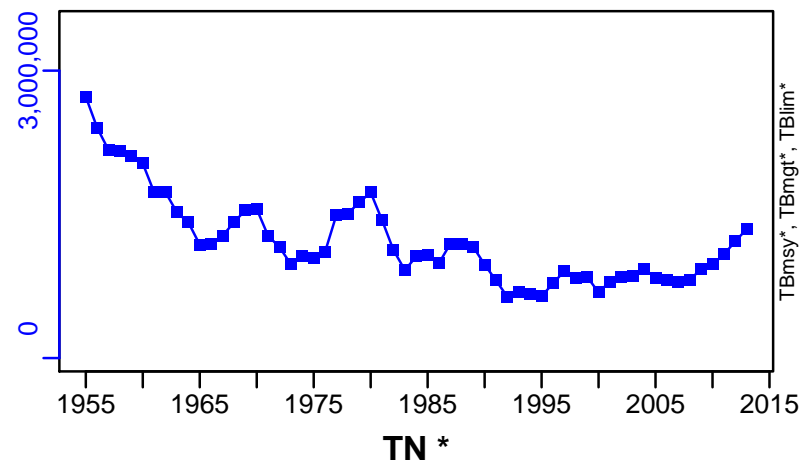
Production (1952–2019–ICESIMP2021)



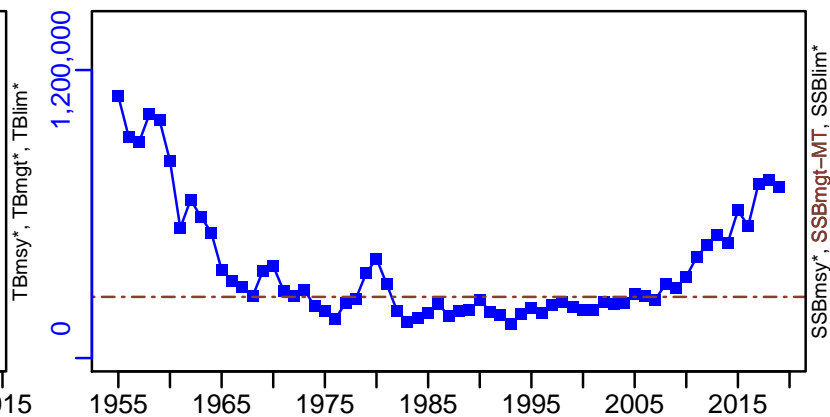
◆ Start Year ◆ End Year \* No Data

# Atlantic cod Iceland Grounds [CODICE]

TB-MT (1952–2014–ICESIMP2016)



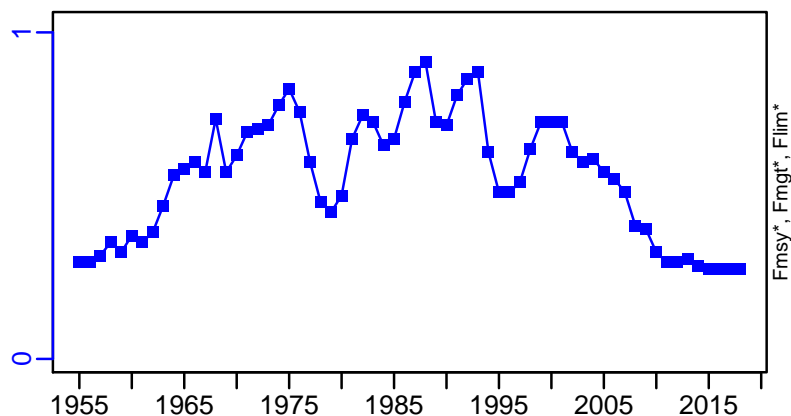
SSB-MT (1952–2019–ICESIMP2021)



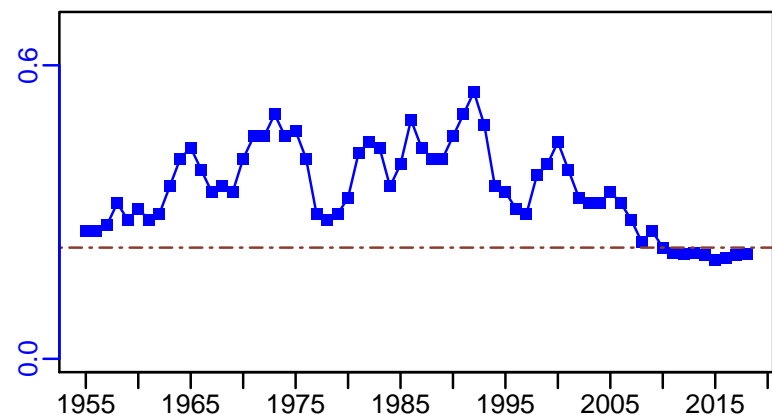
TN \*



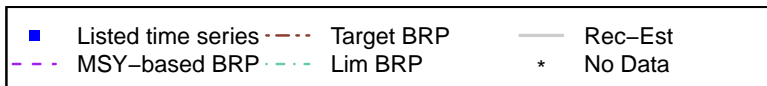
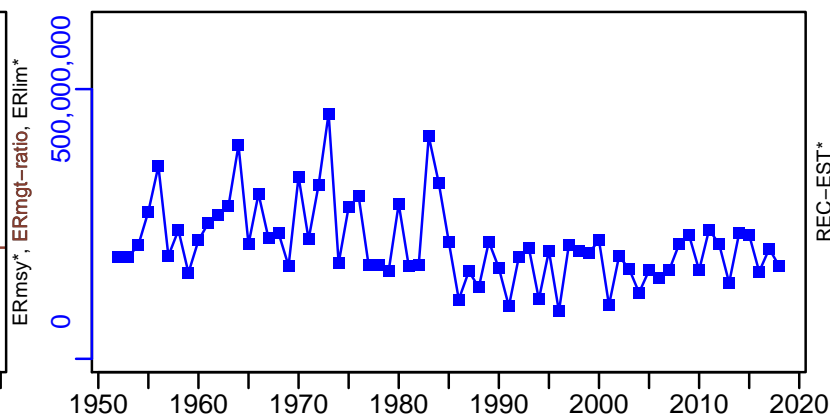
F-1/yr (1952–2019–ICESIMP2021)



ER-ratio (1952–2019–ICESIMP2021)



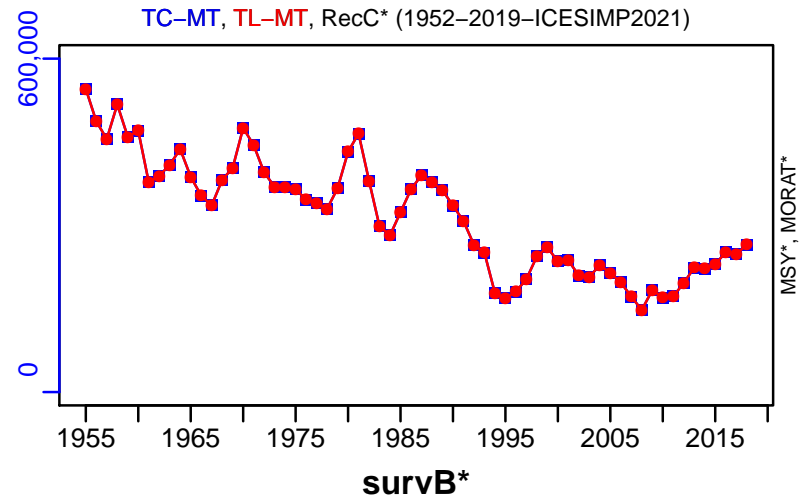
R-E00 (1952–2019–ICESIMP2021)



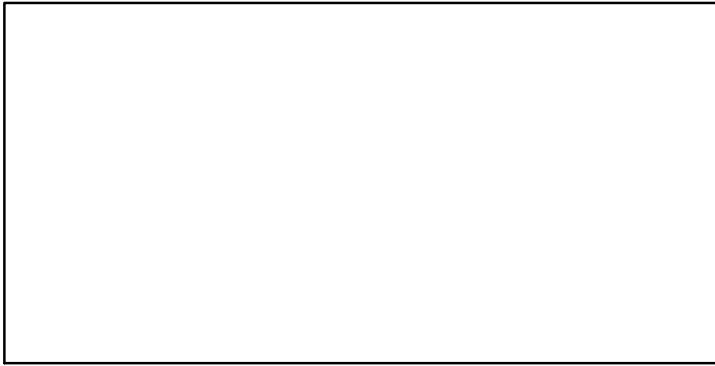
# Atlantic cod Iceland Grounds [CODICE]

TC-MT, TL-MT, RecC\* (1952–2019–ICESIMP2021)

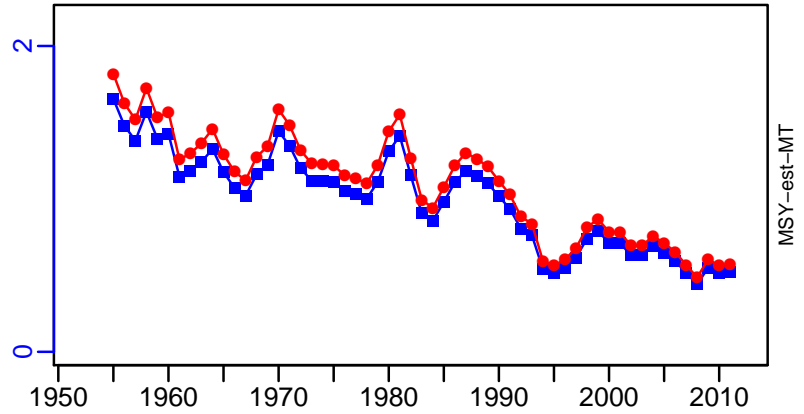
TAC\*, Cpair\*, Cadv\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1952–2012–CHING)



## Atlantic cod North-East Arctic [CODNEAR]

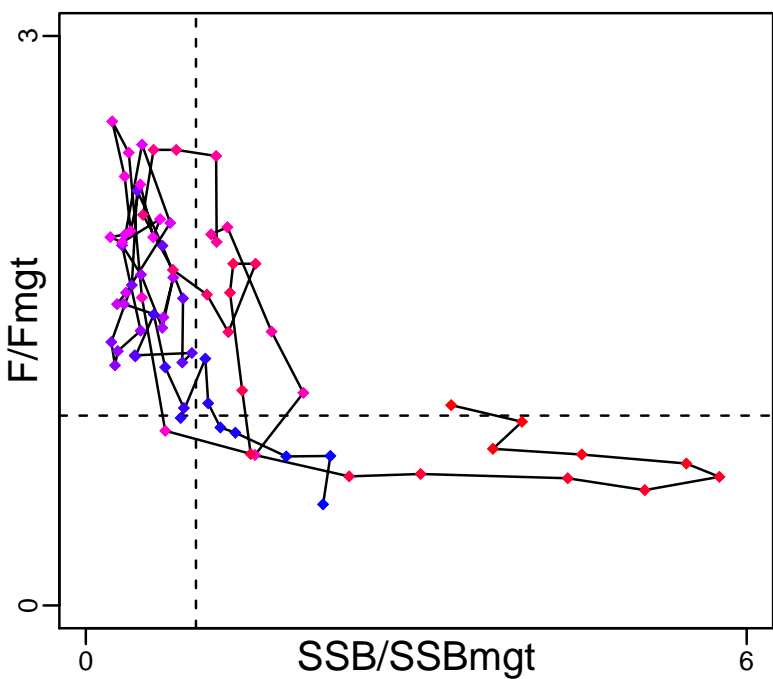
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEAR-1943-2019-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2011

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2011	2,576,475
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.4
<b>ERmsy</b>	ERmsy-est-ratio	2011	0.295
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	460,000
<b>Fmgt</b>	Fmgt-1/yr	2019	0.4
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2011	758,785
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	220,000
<b>Flim</b>	Flim-1/yr	2018	0.74
<b>ERlim</b>	-	-	-

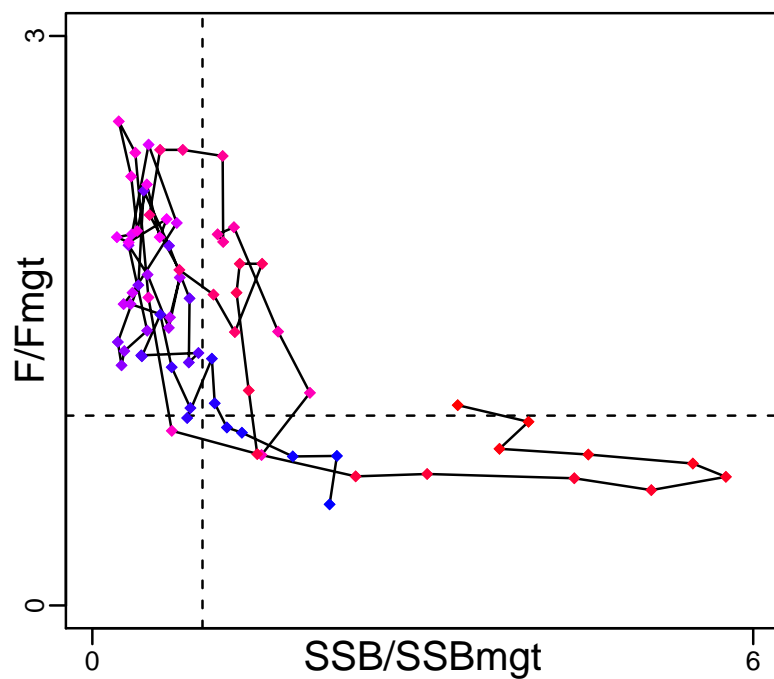
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	2,612,690	-	-
<b>SSB</b>	SSB-MT	2019	1,495,633	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	660,000	-	3
<b>F</b>	F-1/yr	2019	0.422	-	5 to 10
<b>ER</b>	ER-calc-ratio	2019	0.286	-	-
<b>TC</b>	TC-MT	2019	778,627		
<b>TL</b>	TL-MT	2019	778,627		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2011	1.413		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.002		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-est-ratio	2011	0.672		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	3.251		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.055		
<b>ER/ERmgt</b>	-	-	-		

# Atlantic cod North-East Arctic [CODNEAR]

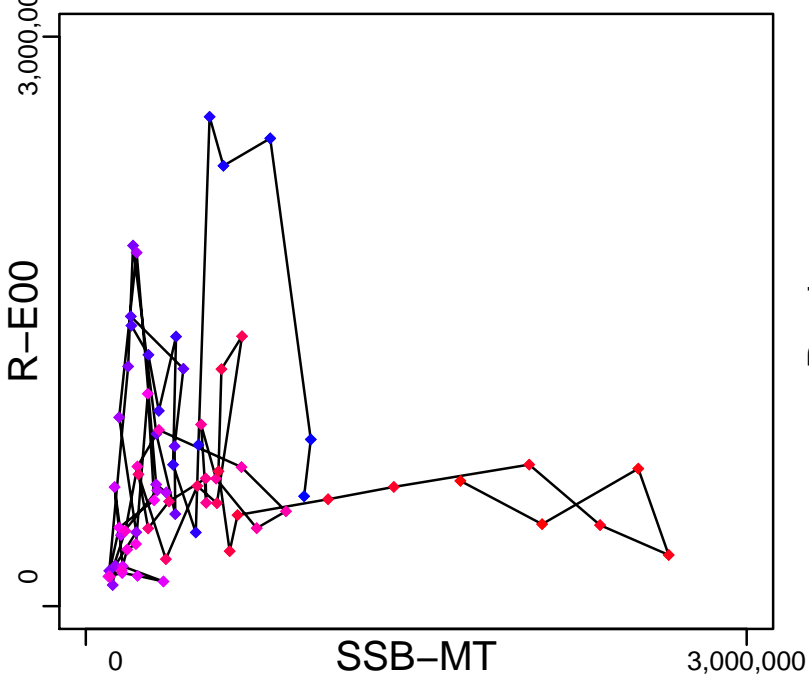
Kobe MSYpref (1943–2019–ICESIMP2021)



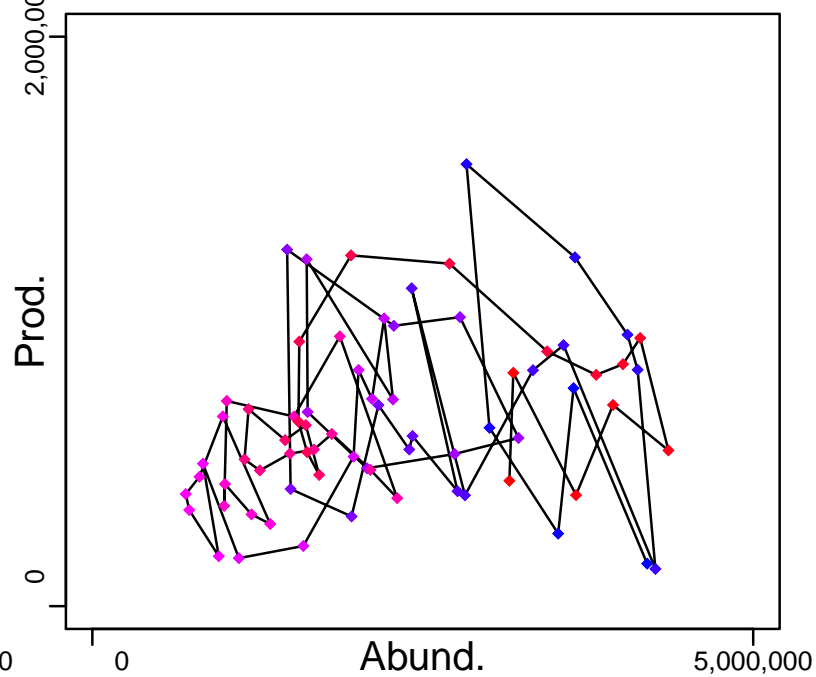
Kobe MGTpref (1943–2019–ICESIMP2021)



Spawner Recruit (1943–2019–ICESIMP2021)

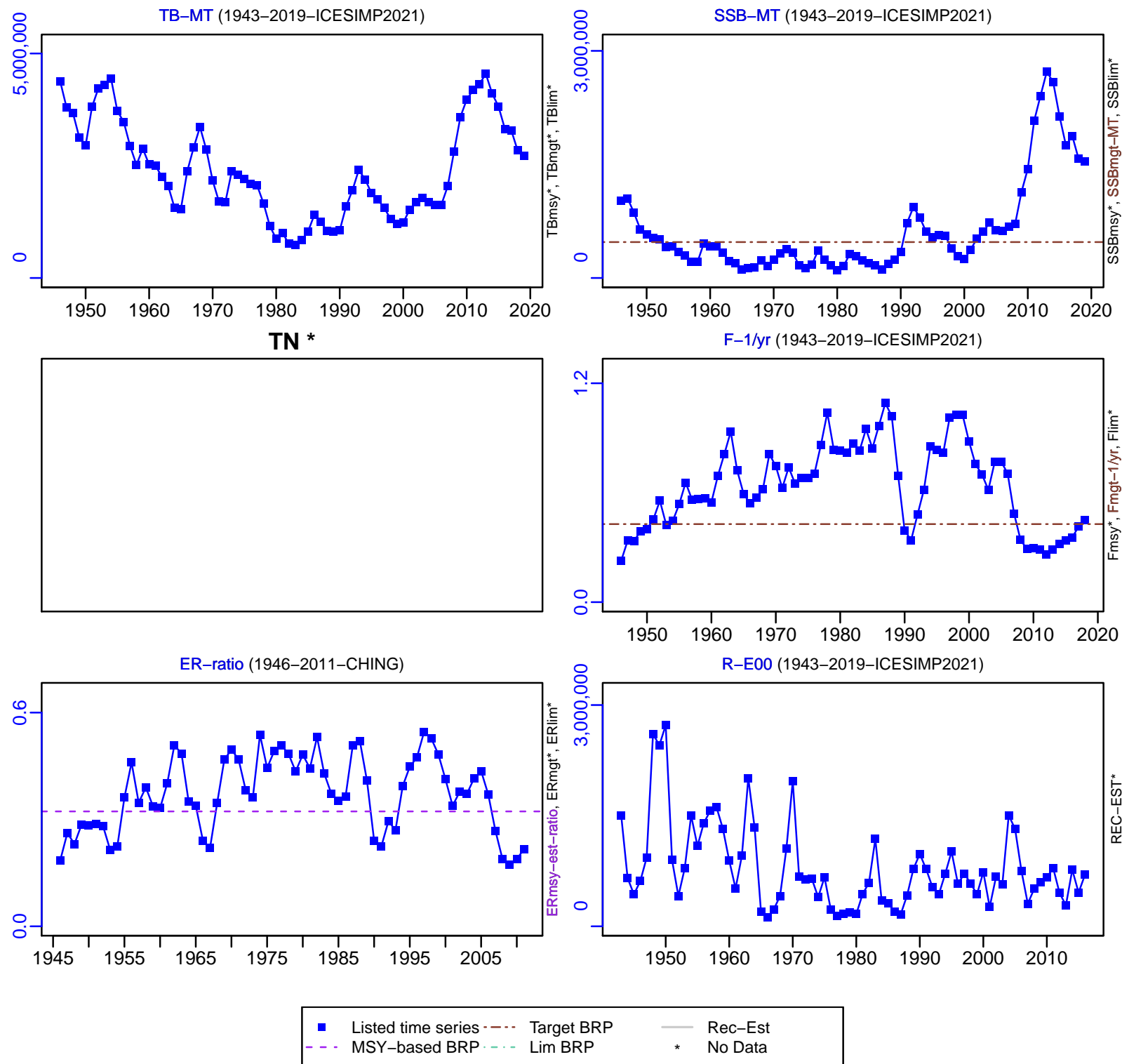


Production (1943–2019–ICESIMP2021)



◆ Start Year ◆ End Year \* No Data

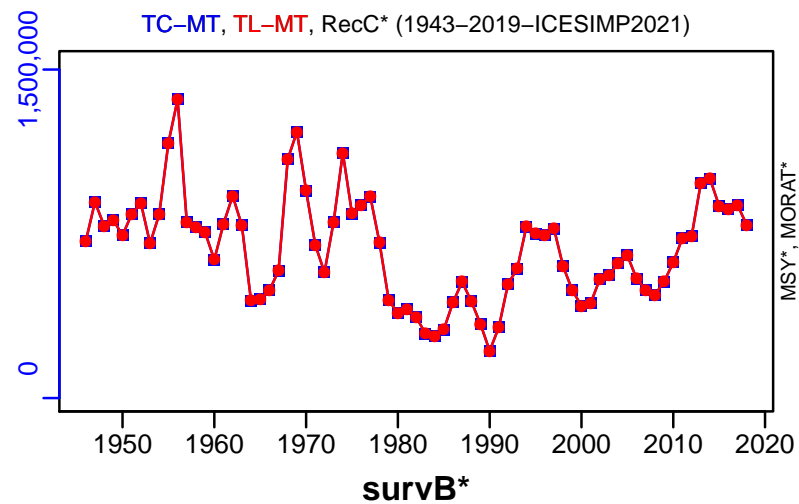
# Atlantic cod North-East Arctic [CODNEAR]





# Atlantic cod North-East Arctic [CODNEAR]

TC-MT, TL-MT, RecC\* (1943–2019–ICESIMP2021)



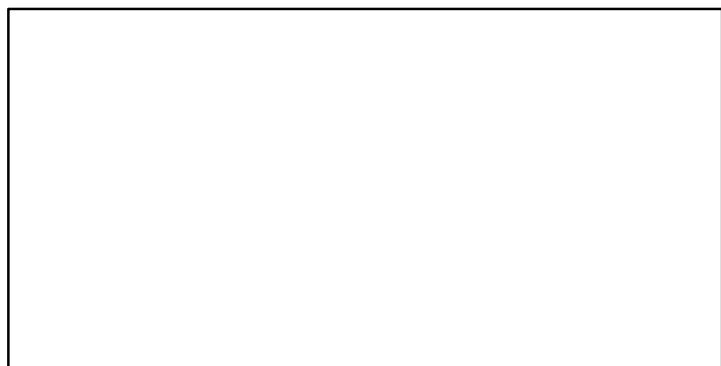
TAC\*, Cpair\*, Cadv\*



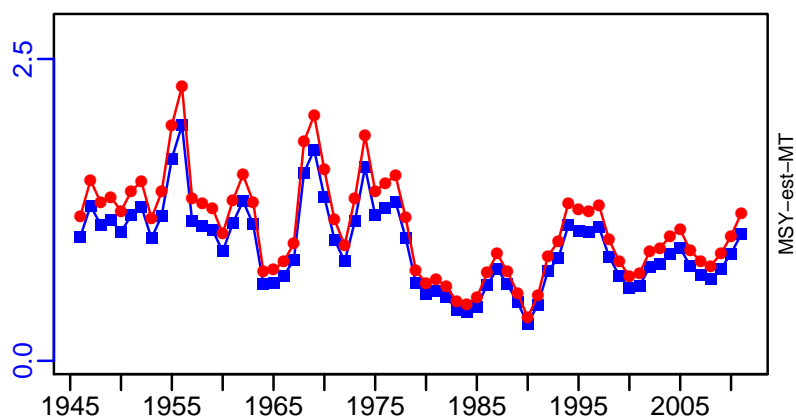
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1946–2011–CHING)



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

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

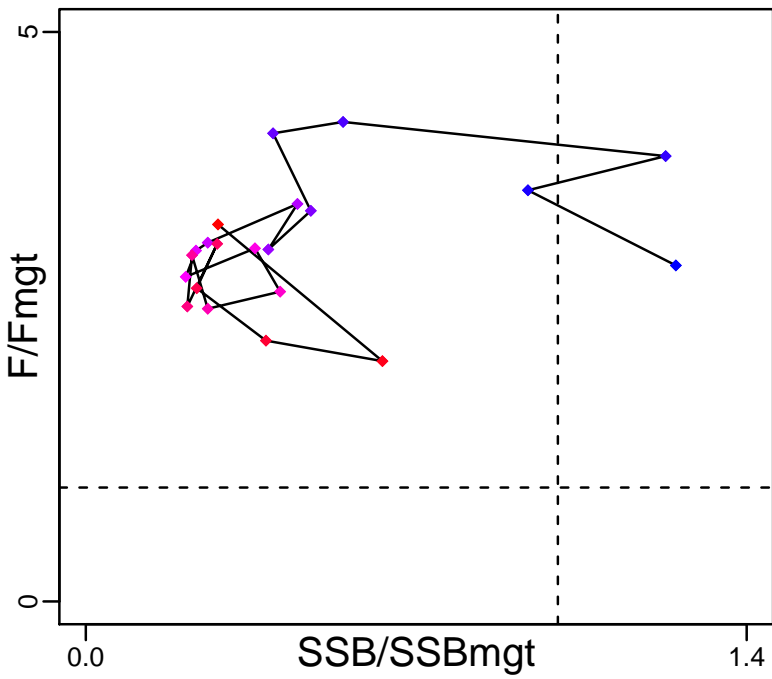
Metadata	
<b>Scientific Name</b>	Gadus morhua
<b>Current Assess ID</b>	AFWG-CODNEARNCW-1982-2018-ICESIMP2021
<b>Area</b>	North-East Arctic (Norwegian coastal waters)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2018, 2016, 2017

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	-	-	-
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2016	0.441
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2016	60,000
<b>Fmgt</b>	Fmgt-1/yr	2016	0.1
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	-	-	-
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

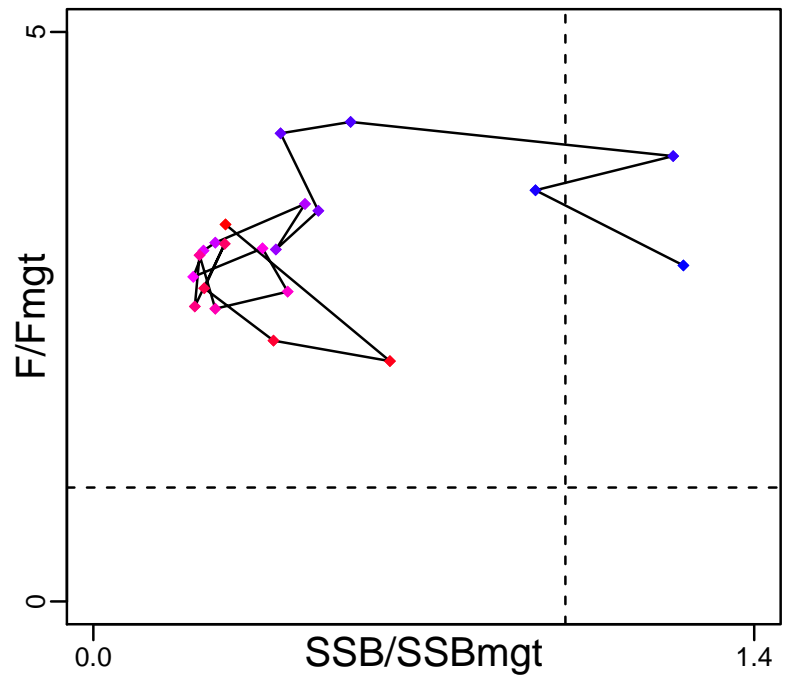
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	-	-	-	-	-
<b>SSB</b>	SSB-MT	2016	16,800	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	23,998,000	-	2
<b>F</b>	F-1/yr	2018	0.268	-	-
<b>ER</b>	ER-calc-ratio	2016	1.668	-	-
<b>TC</b>	TC-MT	2017	52,900		
<b>TL</b>	TL-MT	2018	36,375		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2016	3.785		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2016	0.28		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	3.31		
<b>ER/ERmgt</b>	-	-	-		

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

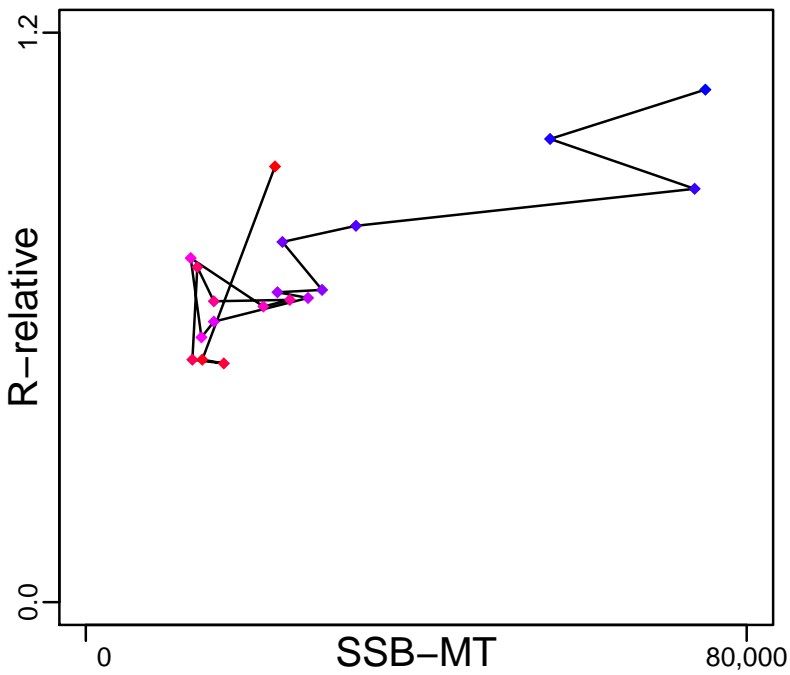
Kobe MSYpref (1982–2016–ICESIMP2016)



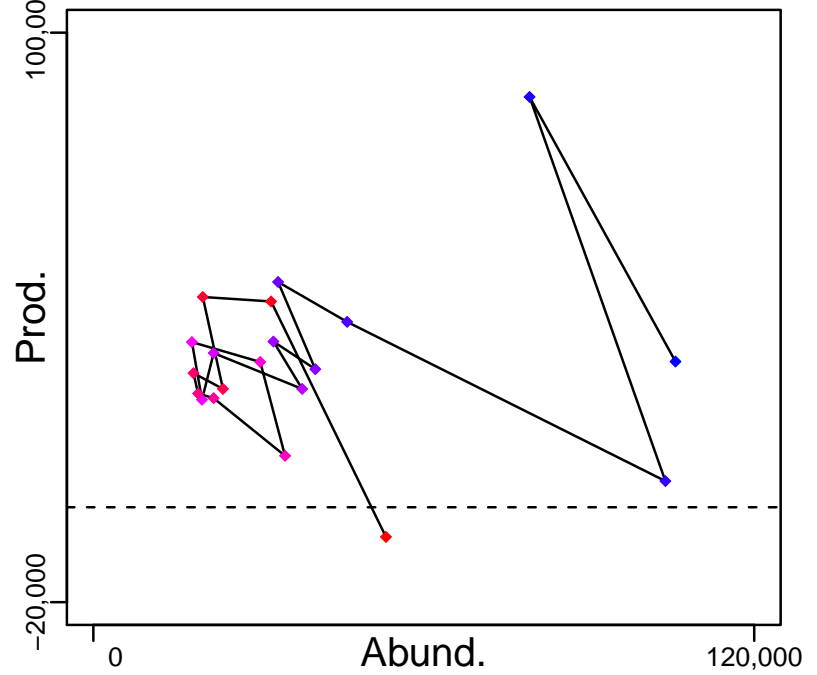
Kobe MGTpref (1982–2016–ICESIMP2016)



Spawner Recruit (1982–2016–ICESIMP2016)



Production (1982–2016–ICESIMP2016)



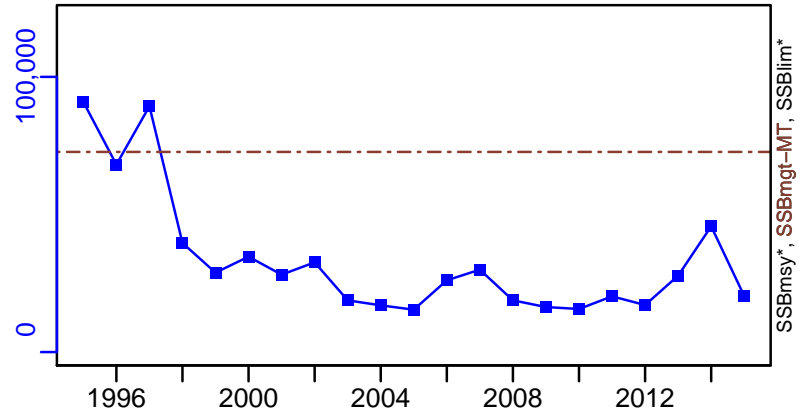
◆ Start Year ◆ End Year \* No Data

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

TB\*



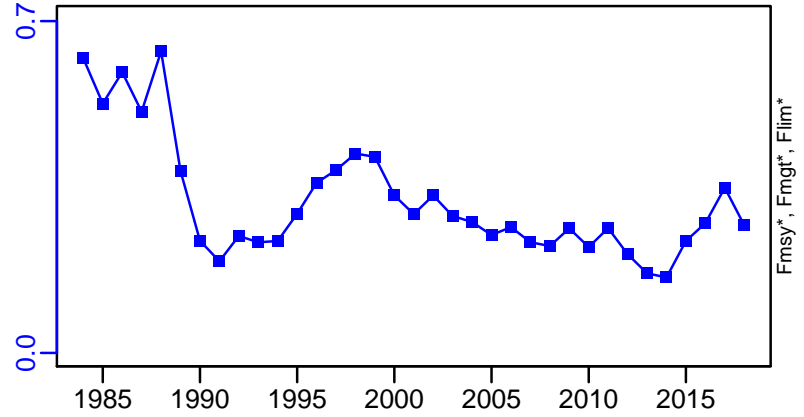
SSB-MT (1982–2016–ICESIMP2016)



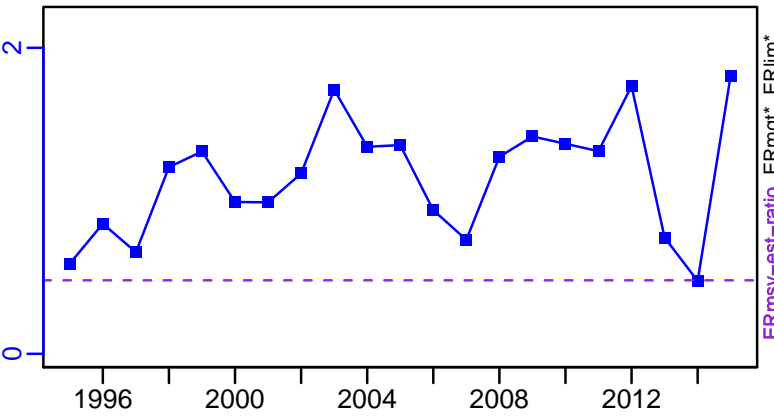
TN \*



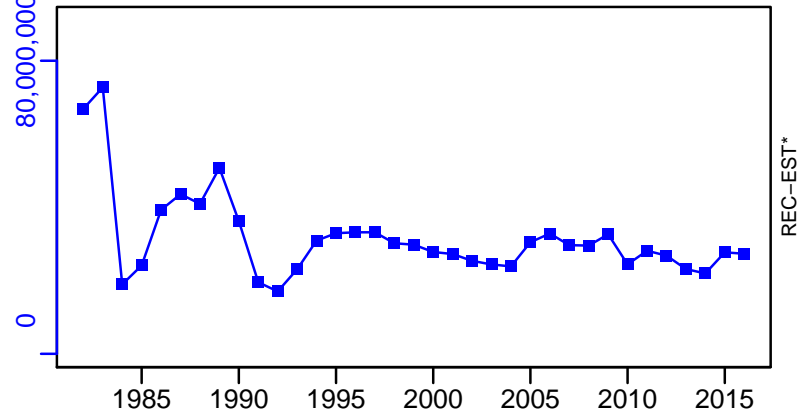
F-1/yr (1982–2018–ICESIMP2021)



ER-calc-ratio (1982–2016–ICESIMP2016)

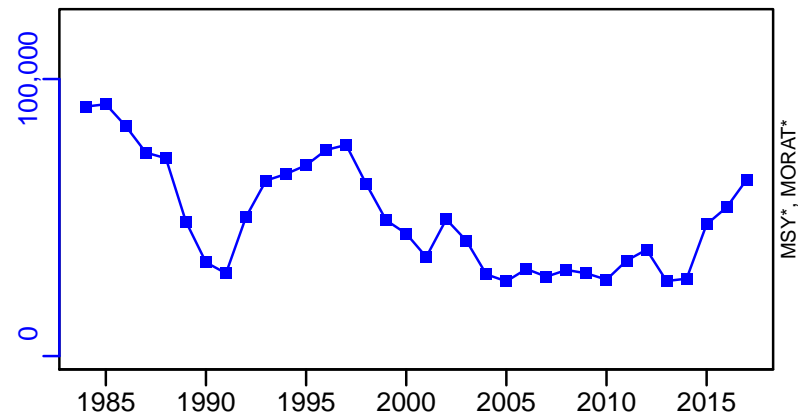


R-E00 (1982–2018–ICESIMP2021)



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

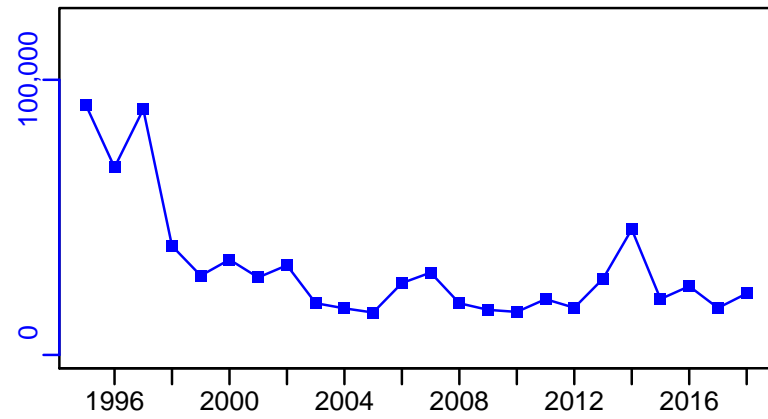
TC-MT, TL\*, RecC\* (1984–2017–ICESIMP2018)



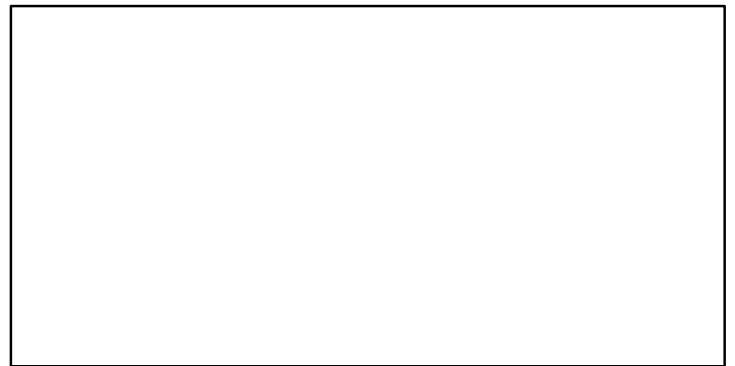
TAC\*, Cpair\*, Cadv\*



survB-MT (1982–2018–ICESIMP2021)



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-1988-2018-ICESIMP2021
<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

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	2018	10,487		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



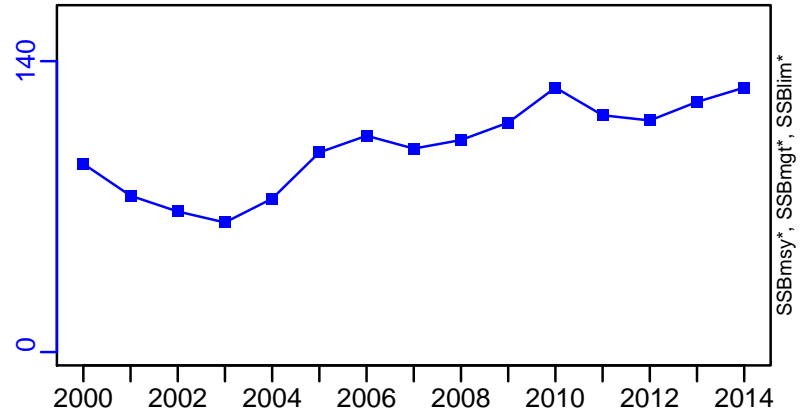
◆ Start Year   ◆ End Year   \* No Data

# Tusk North-East Arctic [CUSKI-II]

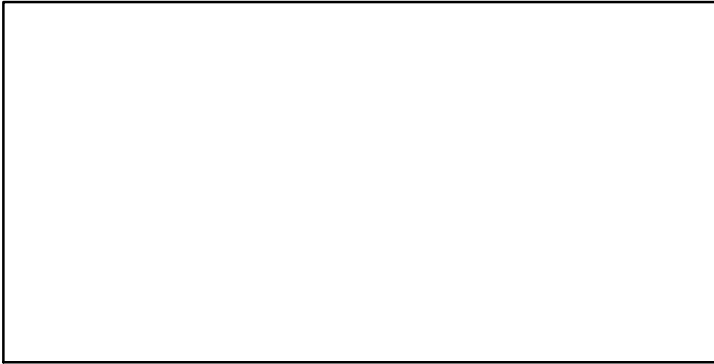
TB\*



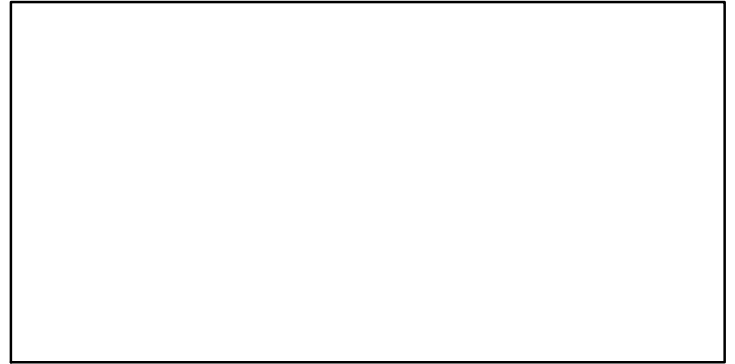
SSB-index (1988–2014–ICESIMP2018)



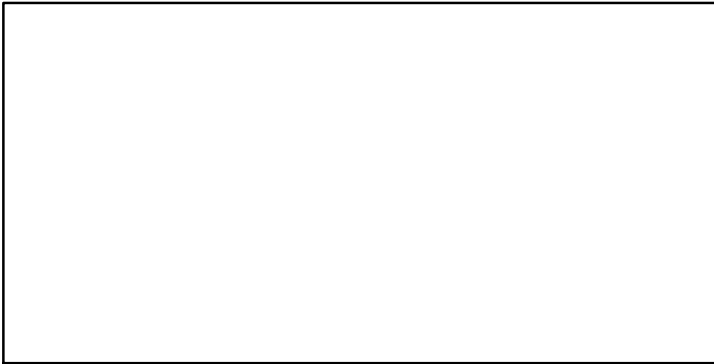
TN \*



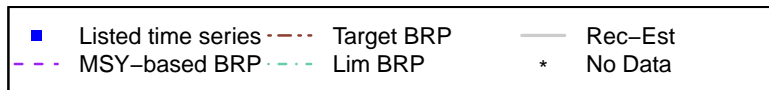
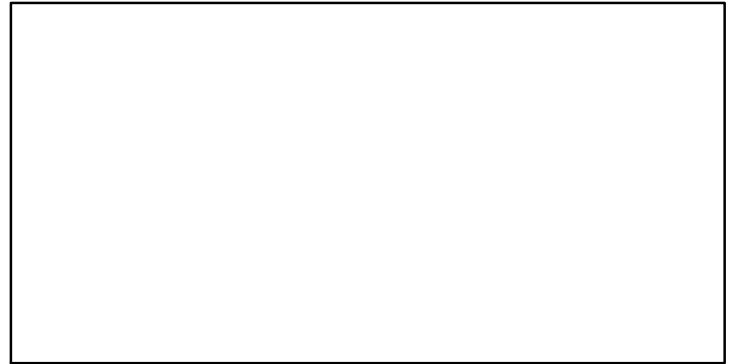
F\*



ER\*



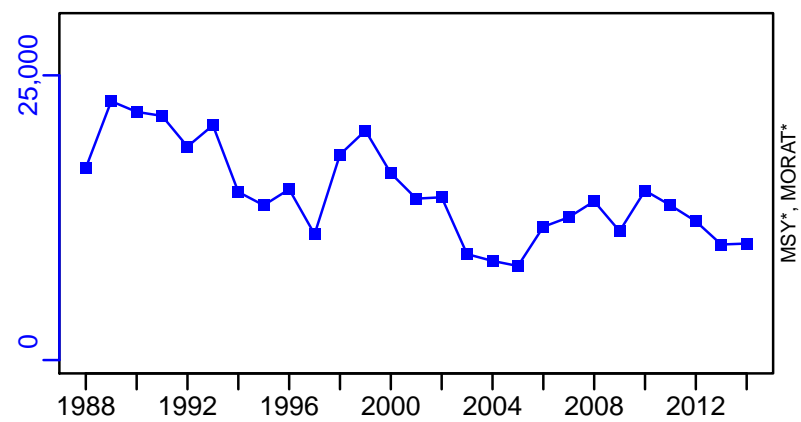
Recruits\*





# Tusk North-East Arctic [CUSKI-II]

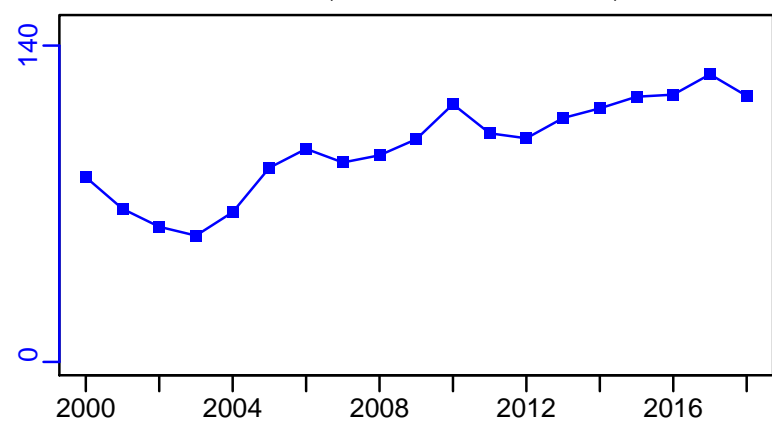
TC-MT, TL\*, RecC\* (1988–2014–ICESIMP2018)



TAC\*, Cpair\*, Cadv\*



survB-MT (1988–2018–ICESIMP2021)



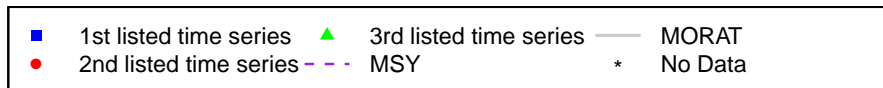
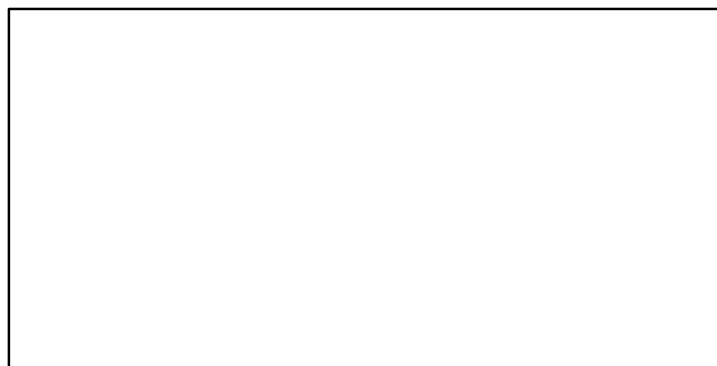
CPUE\*



EFFORT\*



CdivMSY\*



## Greenland halibut North-East Arctic [GHALNEAR]

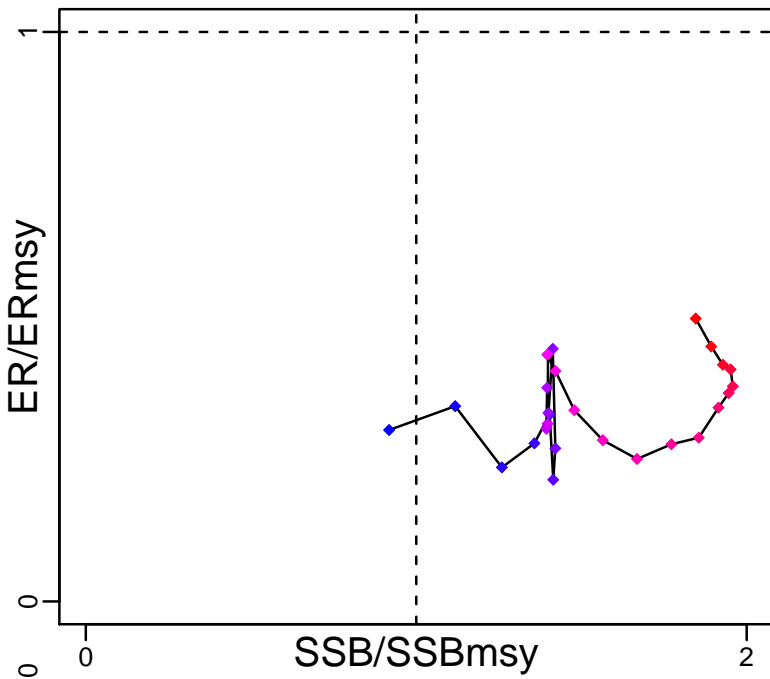
Metadata	
<b>Scientific Name</b>	Reinhardtius hippoglossoides
<b>Current Assess ID</b>	AFWG-GHALNEAR-1935-2019-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2016, 2019, 2010, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2016	368,238
<b>SSBmsy</b>	SSBmsy-est-MT	2019	400,172
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2019	0.078
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	-	-	-
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2019	65,002
<b>M</b>	M-1/yr	2010	0.15
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

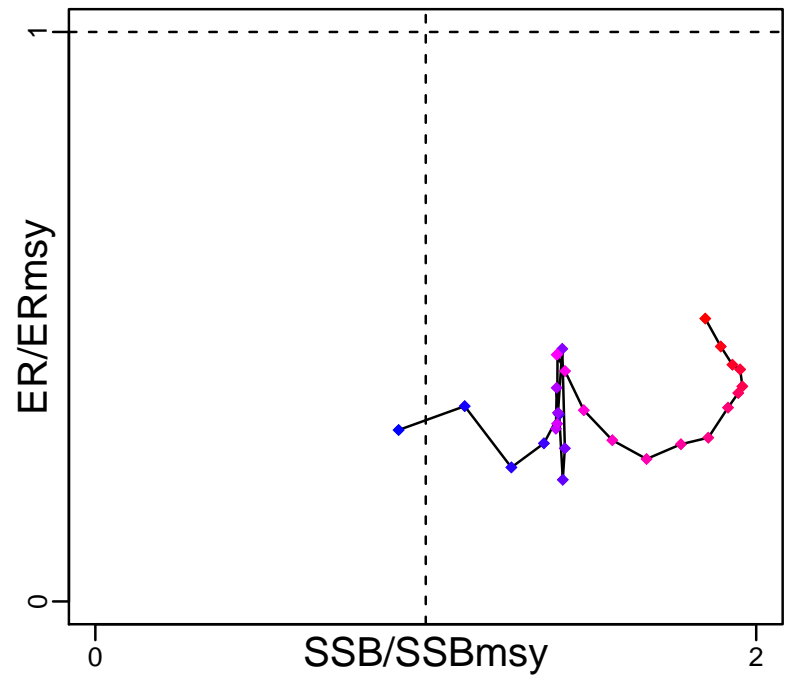
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	666,000	Both	-
<b>SSB</b>	SSB-MT	2019	715,671	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	$1 \times 10^6$	-	1
<b>F</b>	F-1/yr	2010	0.061	-	6 to 10
<b>ER</b>	ER-ratio	2019	0.039	-	-
<b>TC</b>	TC-MT	2019	28,544		
<b>TL</b>	TL-MT	2019	28,544		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2016	1.809		
<b>SSB/SSBmsy</b>	SSB-MT/SSBmsy-est-MT	2019	1.788		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-est-ratio	2019	0.497		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	-	-	-		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

# Greenland halibut North-East Arctic [GHALNEAR]

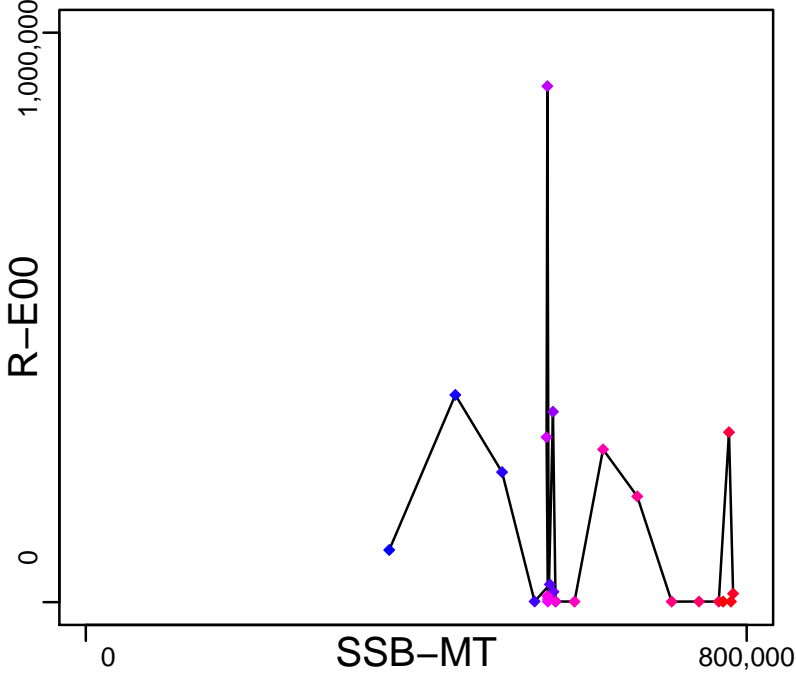
Kobe MSYpref (1935–2019–ICESIMP2021)



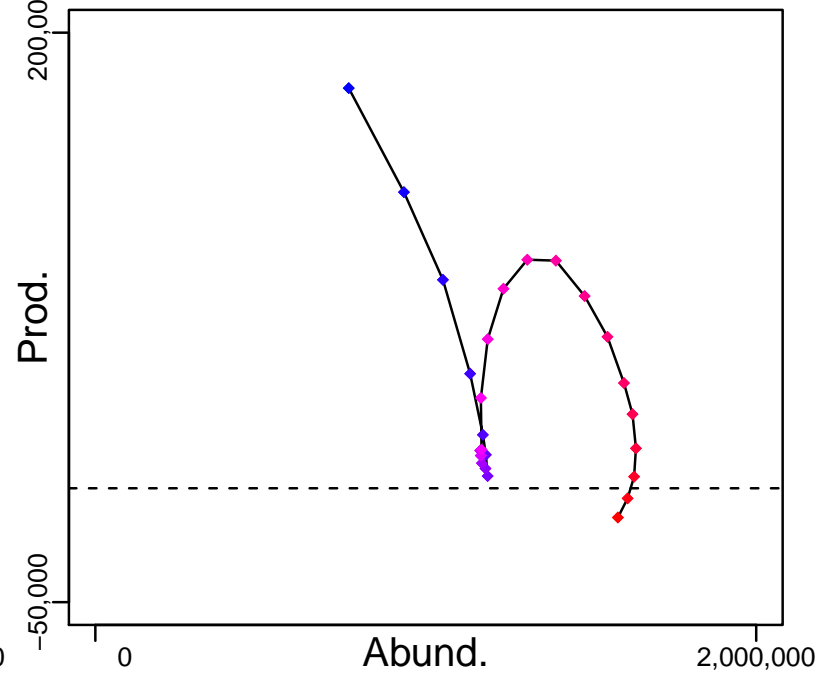
Kobe MGTpref (1935–2019–ICESIMP2021)



Spawner Recruit (1935–2019–ICESIMP2021)



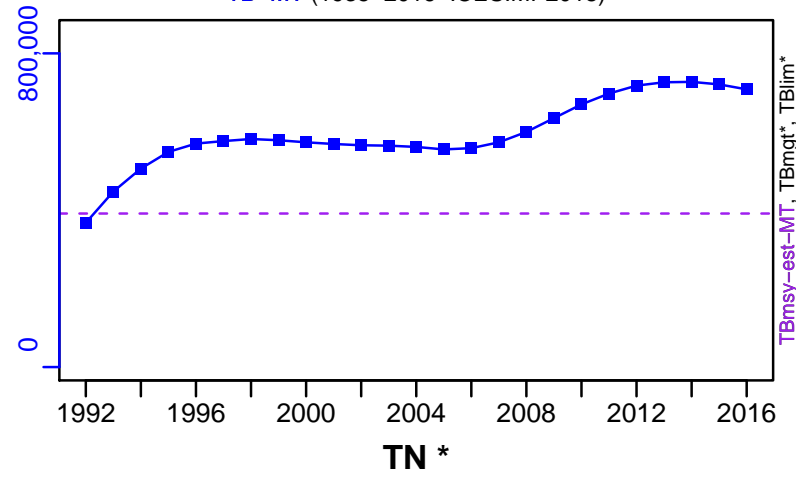
Production (1935–2019–ICESIMP2021)



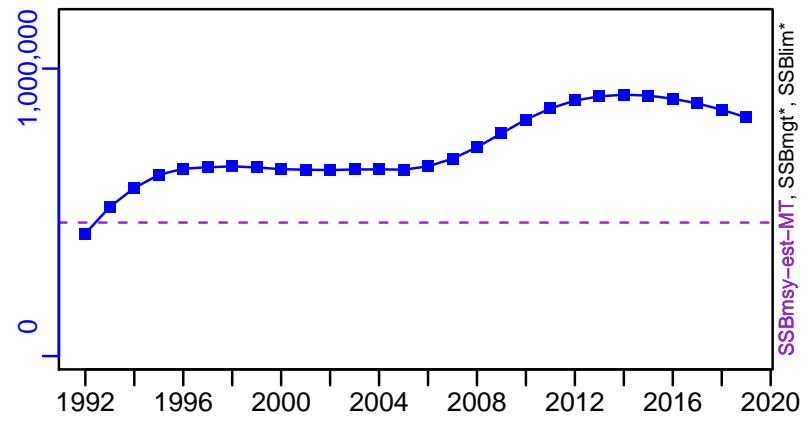
◆ Start Year ◆ End Year \* No Data

# Greenland halibut North-East Arctic [GHALNEAR]

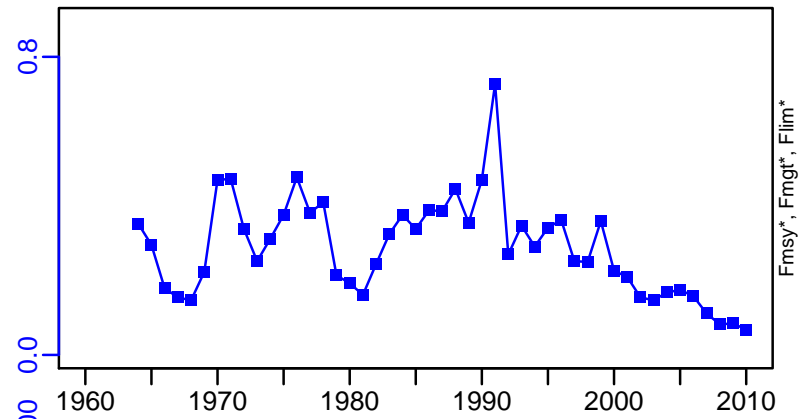
TB-MT (1935–2016–ICESIMP2018)



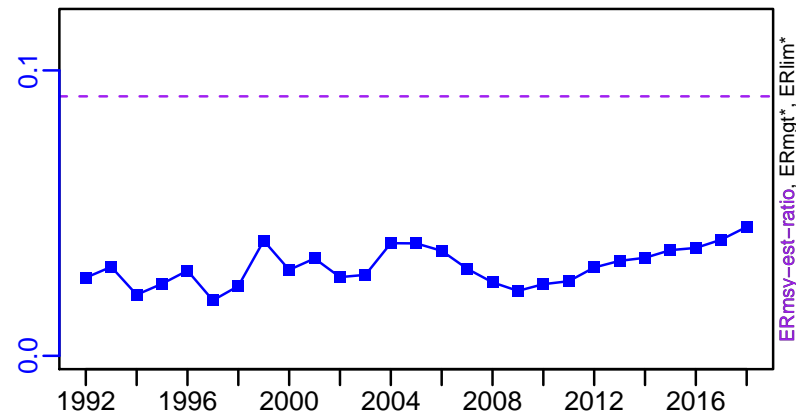
SSB-MT (1935–2019–ICESIMP2021)



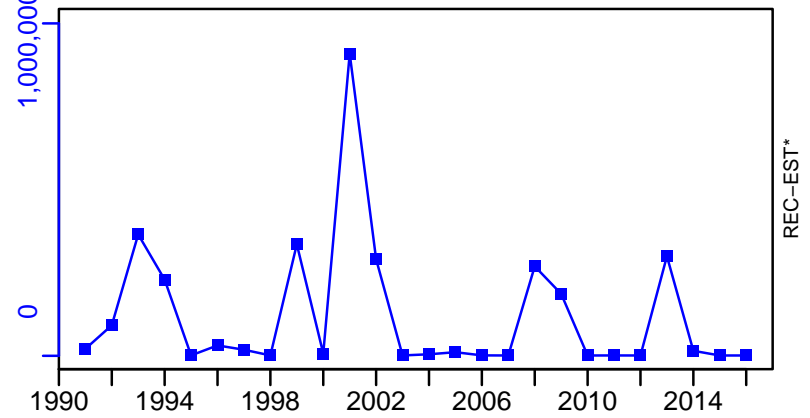
F-1/yr (1960–2010–NEUBAUER)



ER-ratio (1935–2019–ICESIMP2021)

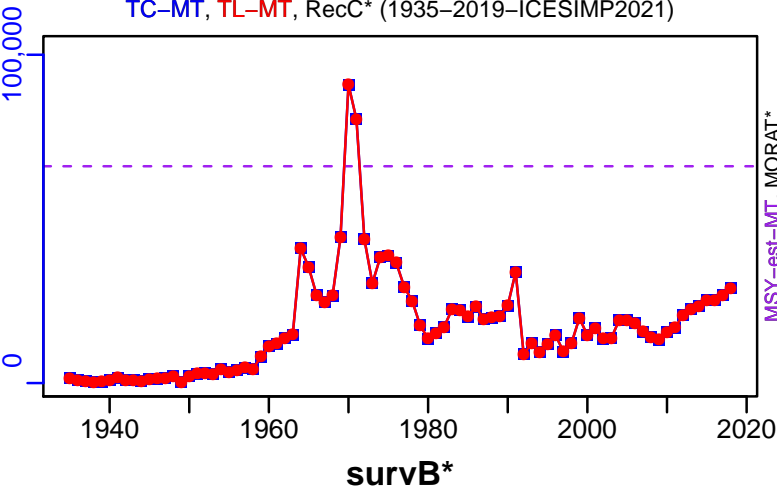


R-E00 (1935–2019–ICESIMP2021)



Greenland halibut North-East Arctic [GHALNEAR]

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



TAC\*, Cpair\*, Cadv\*



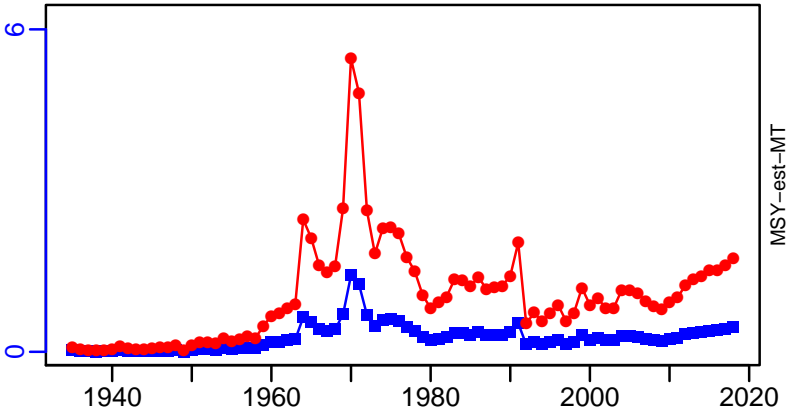
CPUE\*



EFFORT\*



TC-MT/MSY-est-MT, CdivMEANC-ratio, (1935–2019–ICESIMP2021)



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

## Golden redfish North-East Arctic [GOLDREDNEAR]

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

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

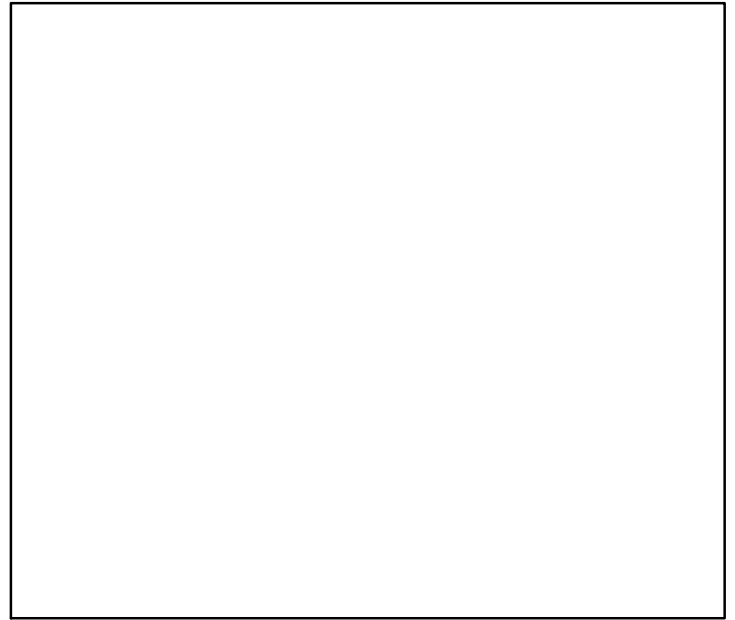
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	34,400	Both	-
<b>SSB</b>	SSB-MT	2017	22,000	Both	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2017	30,000	-	3
<b>F</b>	F-1/yr	2017	0.305	-	15+
<b>ER</b>	ER-calc-ratio	2017	0.155	-	-
<b>TC</b>	TC-MT	2017	5340		
<b>TL</b>	TL-MT	2017	5340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

Golden redfish North-East Arctic [GOLDREDNEAR]

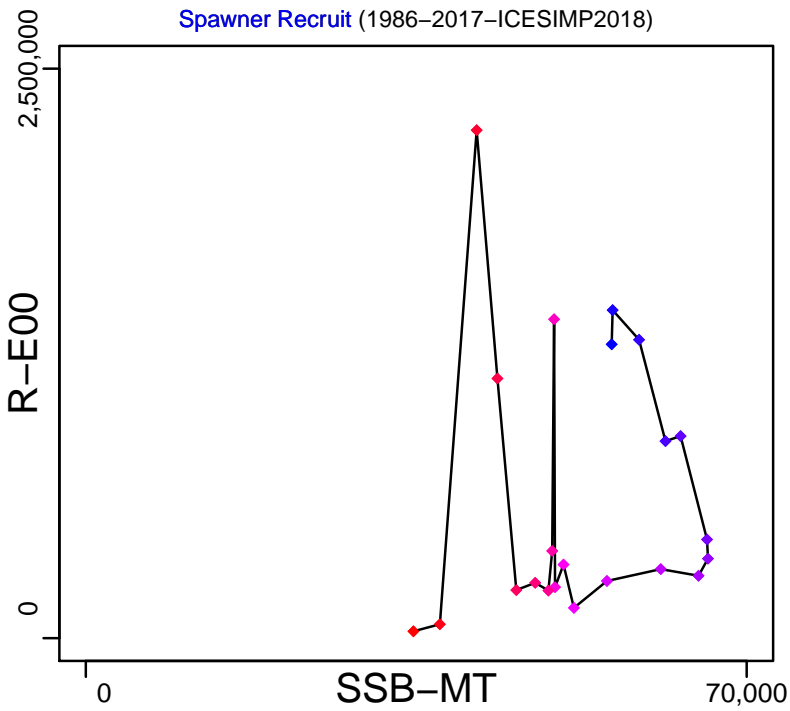
Kobe MSY\*



Kobe MGT\*

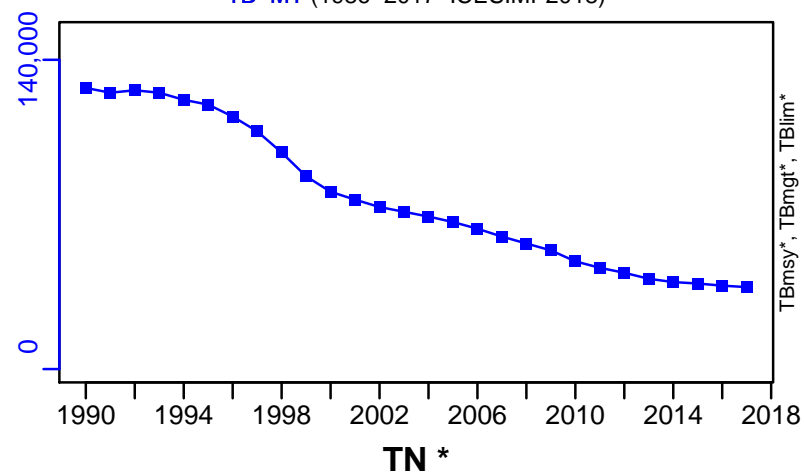


Spawner Recruit (1986–2017–ICESIMP2018)

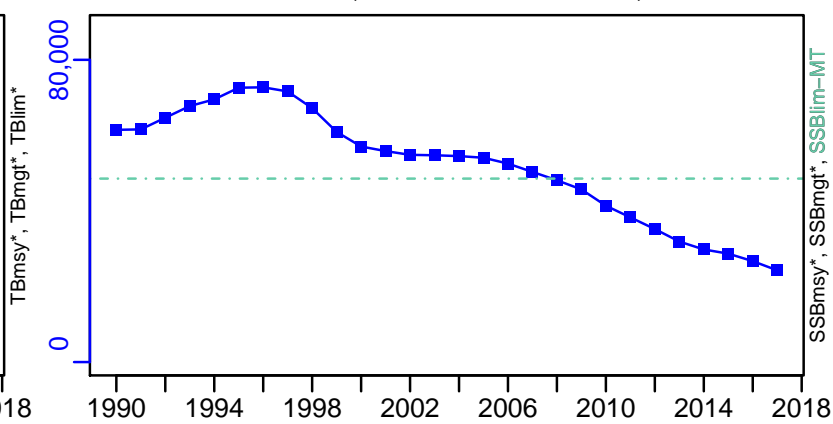


# Golden redfish North-East Arctic [GOLDREDNEAR]

TB-MT (1986–2017–ICESIMP2018)



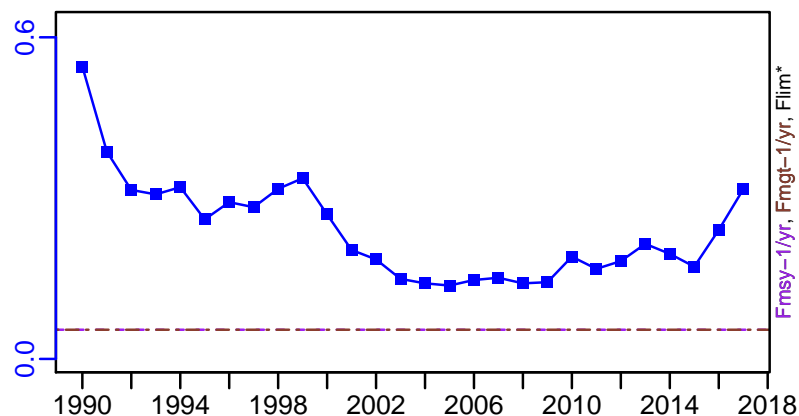
SSB-MT (1986–2017–ICESIMP2018)



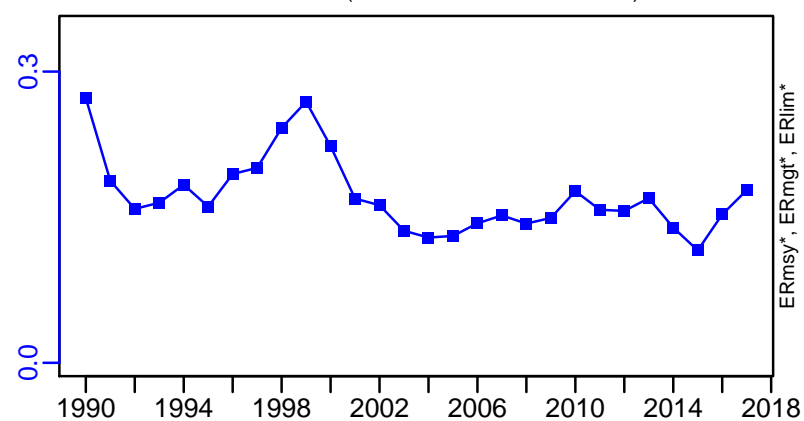
TN \*



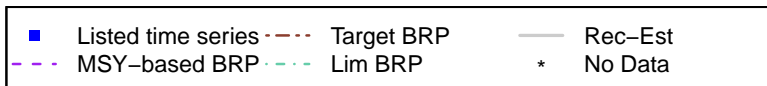
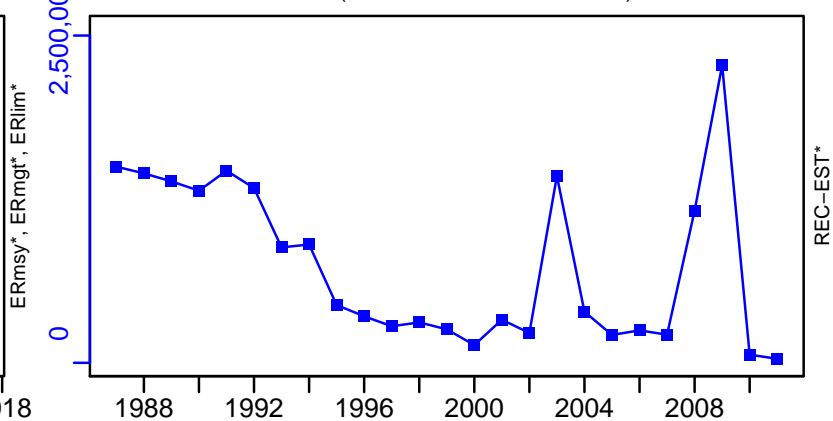
F-1/yr (1986–2017–ICESIMP2018)



ER-calc-ratio (1986–2017–ICESIMP2018)



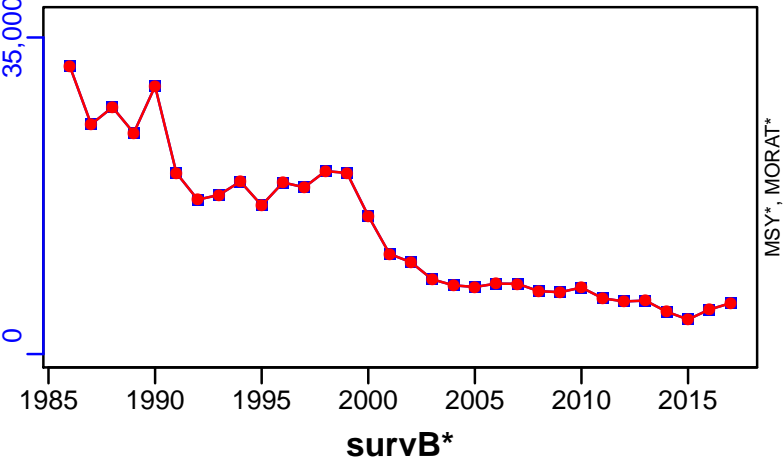
R-E00 (1986–2017–ICESIMP2018)





Golden redfish North-East Arctic [GOLDREDNEAR]

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



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



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

Metadata	
<b>Scientific Name</b>	Argentina silus
<b>Current Assess ID</b>	WGDEEP-GSSMELTVa-XIV-2000-2018-ICESIMP2021
<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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	F-1/yr	2018	0.08	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	6060		
TL	TL-MT	2018	4460		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*



Production\*



◆ Start Year   ◆ End Year   \* No Data

TB\*



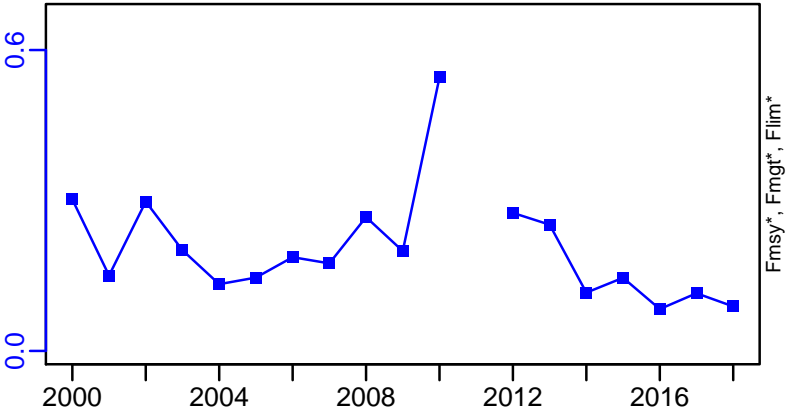
SSB\*



TN \*



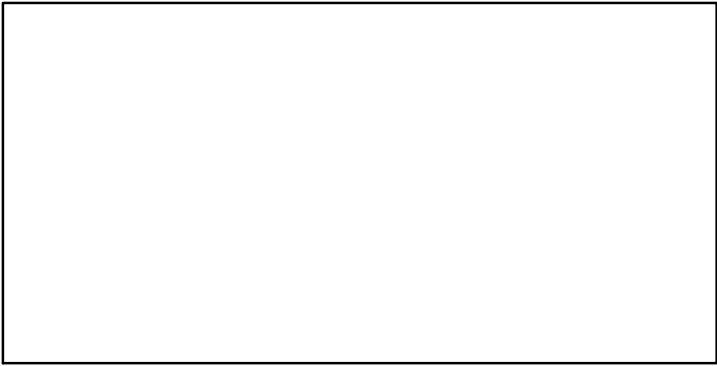
F-1/yr (2000-2018-ICESIMP2021)



ER\*

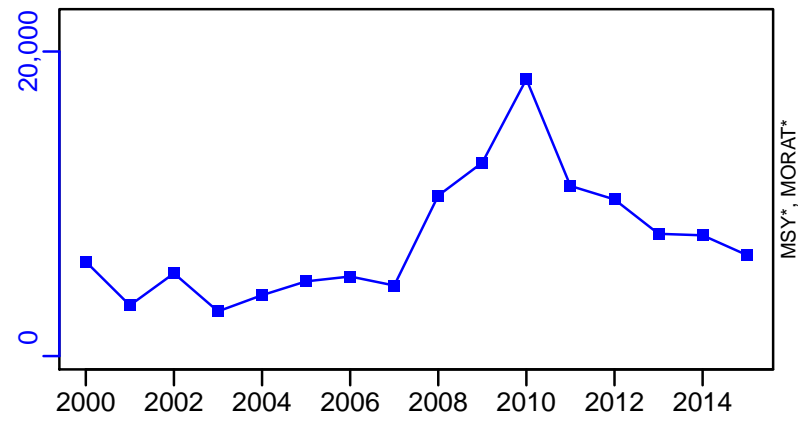


Recruits\*



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

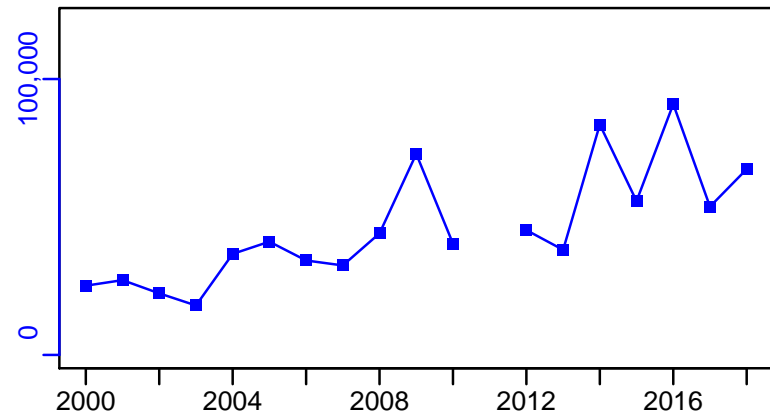
TC-MT, TL\*, RecC\* (2000-2016-ICESIMP2016)



TAC\*, Cpair\*, Cadv\*



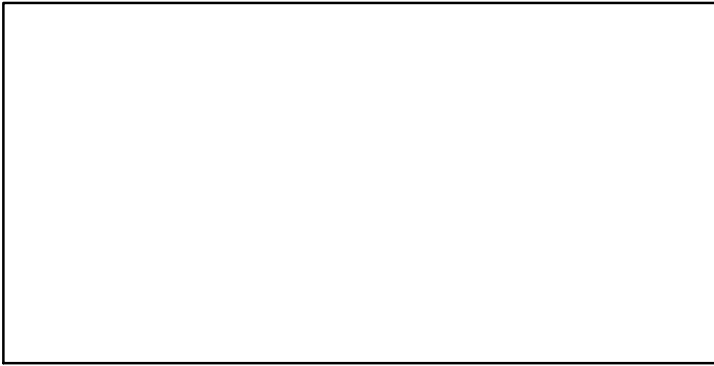
survB-MT (2000-2018-ICESIMP2021)



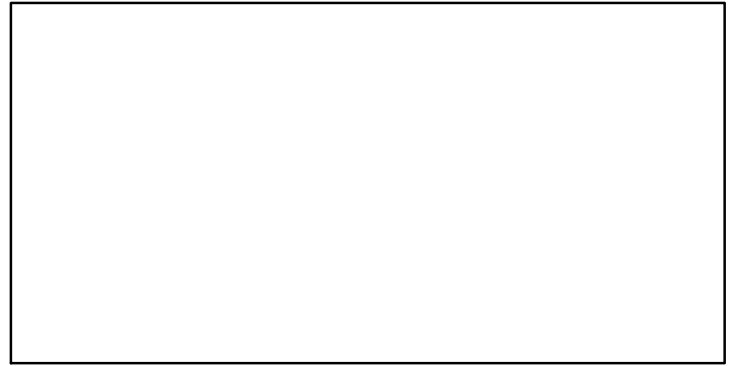
CPUE\*



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-1988-2018-ICESIMP2021
<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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	20	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2016	18,000		
TL	TL-MT	2018	16,033		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

Kobe MSY\*



Kobe MGT\*



Spawner Recruit\*

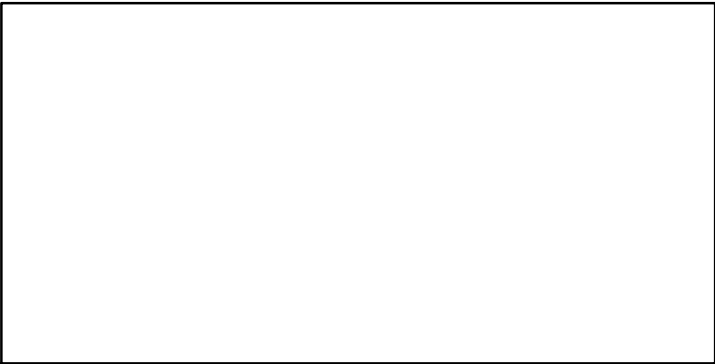


Production\*

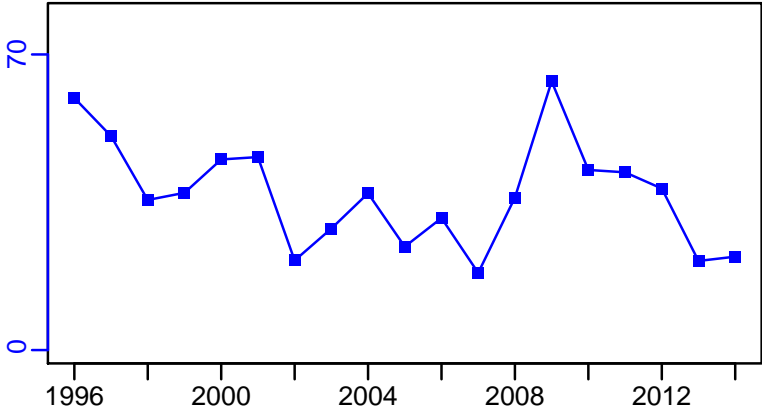


◆ Start Year   ◆ End Year   \* No Data

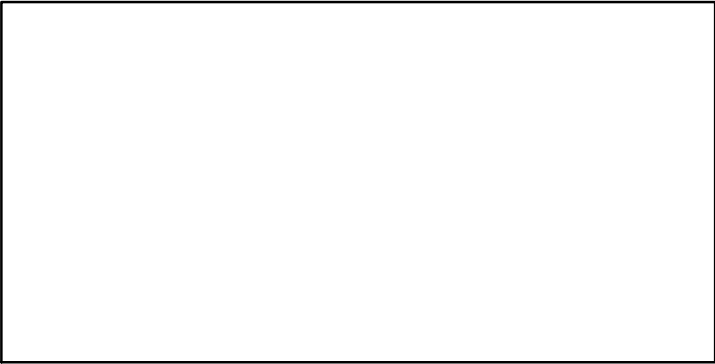
TB\*



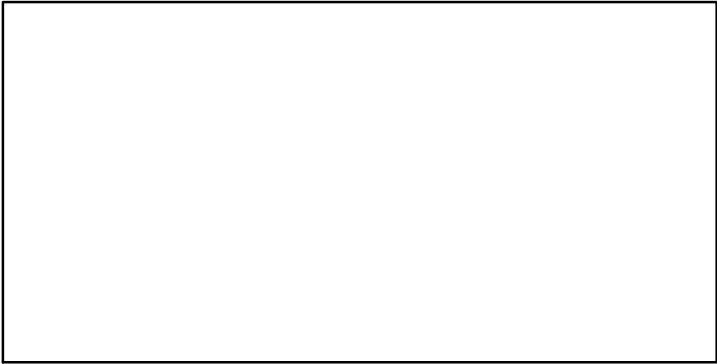
SSB-index (1988-2014-ICESIMP2018)



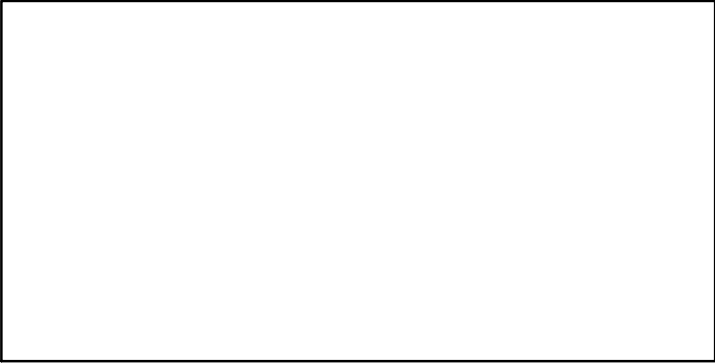
TN \*



F\*



ER\*



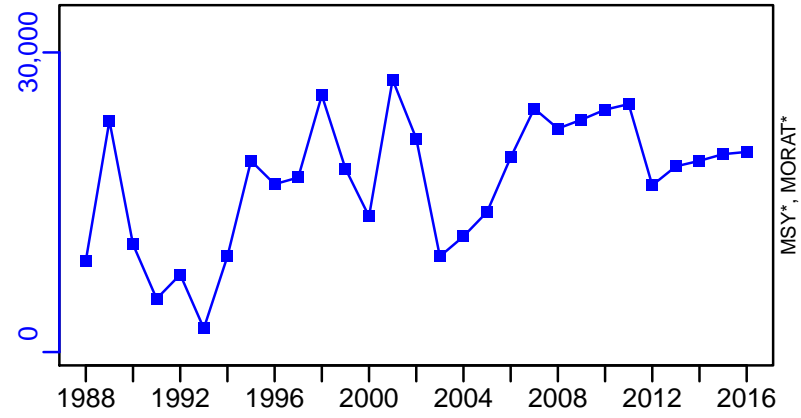
Recruits\*





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

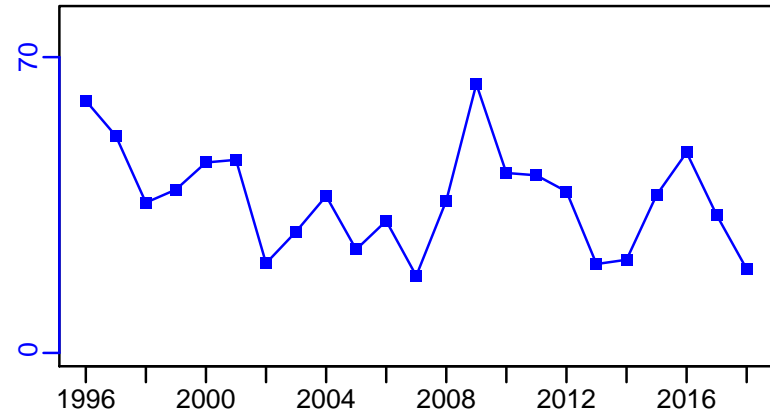
TC-MT, TL\*, RecC\* (1988-2016-ICESIMP2018)



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]

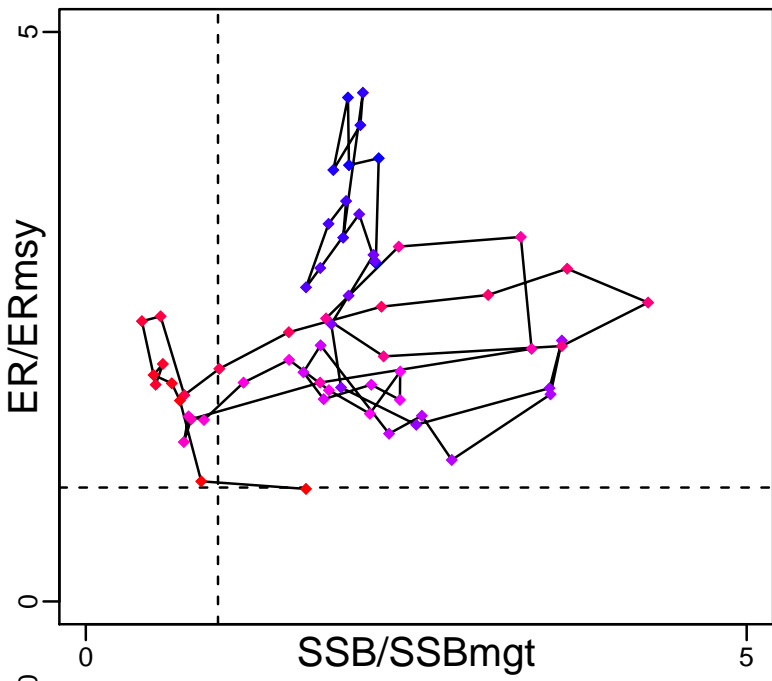
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADFAPL-1956-2019-ICESIMP2021
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	97,712
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2018	0.165
<b>ERmsy</b>	ERmsy-ratio	2019	0.165
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	22,843
<b>Fmgt</b>	Fmgt-1/yr	2018	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	2018	16,780
<b>Flim</b>	Flim-1/yr	2018	0.54
<b>ERlim</b>	-	-	-

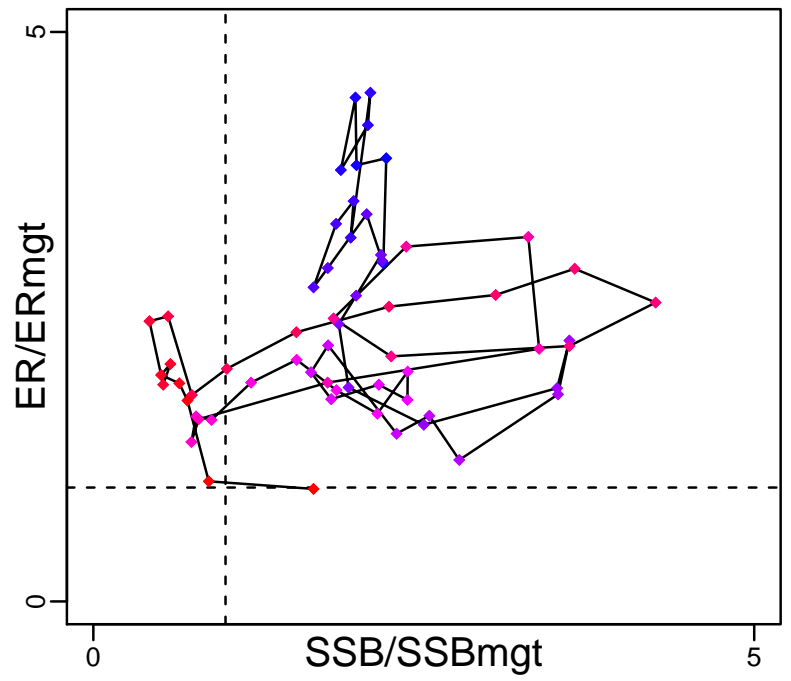
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	90,093	-	-
<b>SSB</b>	SSB-MT	2019	51,198	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	34,187,000	-	1
<b>F</b>	F-1/yr	2018	0.228	-	3 to 7
<b>ER</b>	ER-ratio	2019	0.163	-	3 to 7
<b>TC</b>	TC-MT	2019	5588		
<b>TL</b>	TL-MT	2019	5588		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.231		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2018	1.382		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-ratio	2019	0.988		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	2.241		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2018	1.382		
<b>ER/ERmgt</b>	-	-	-		

# Haddock Faroe Plateau [HADFAPL]

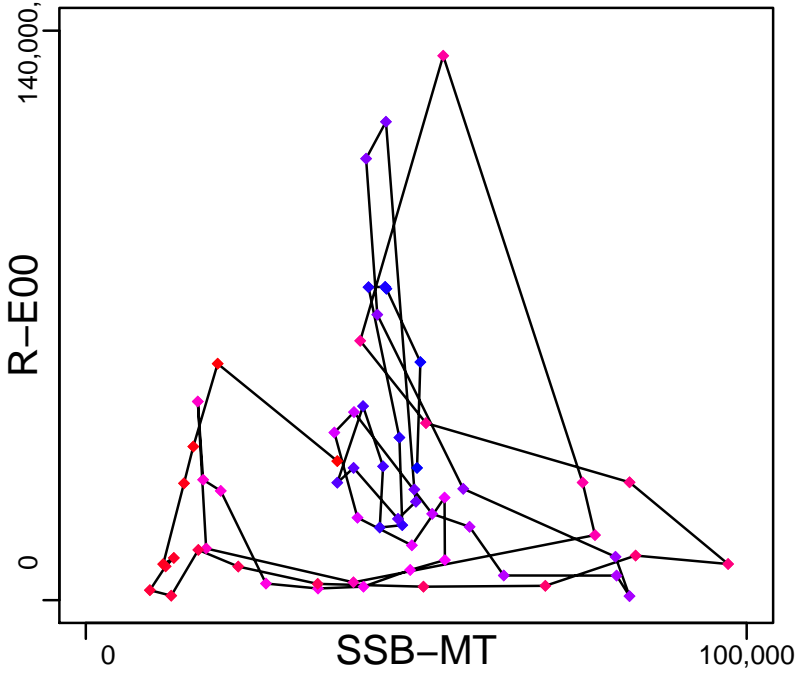
Kobe MSYpref (1956–2019–ICESIMP2021)



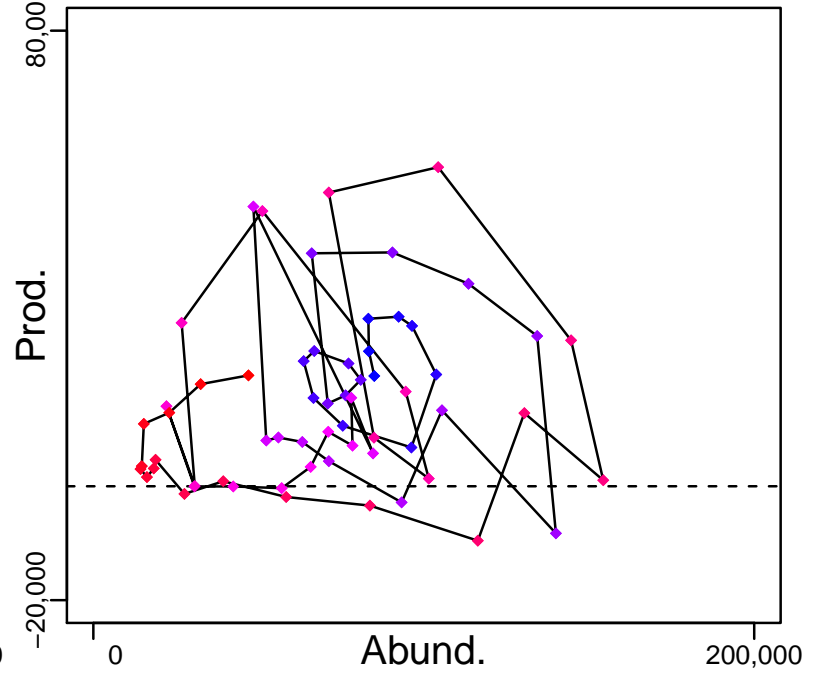
Kobe MGTpref (1956–2019–ICESIMP2021)



Spawner Recruit (1956–2019–ICESIMP2021)



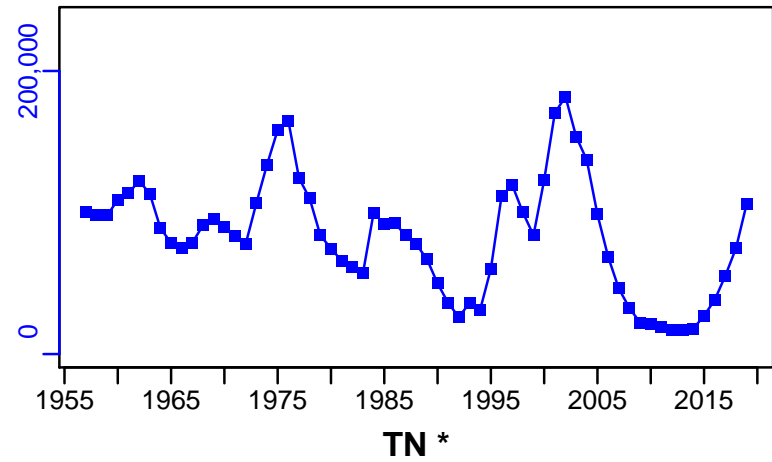
Production (1956–2019–ICESIMP2021)



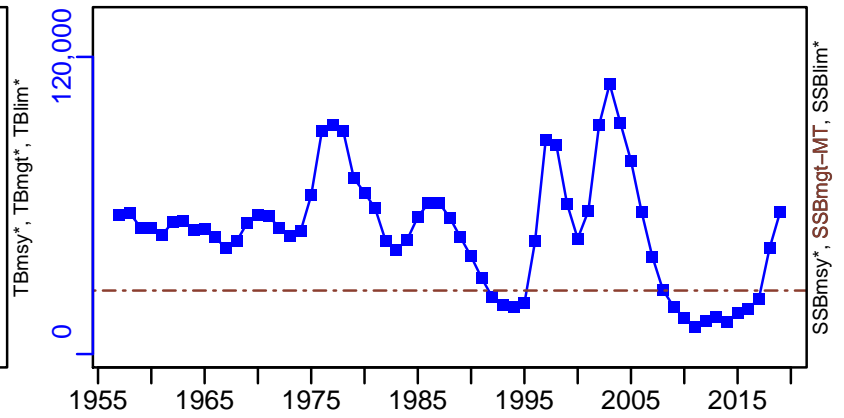
◆ Start Year ◆ End Year \* No Data

# Haddock Faroe Plateau [HADFAPL]

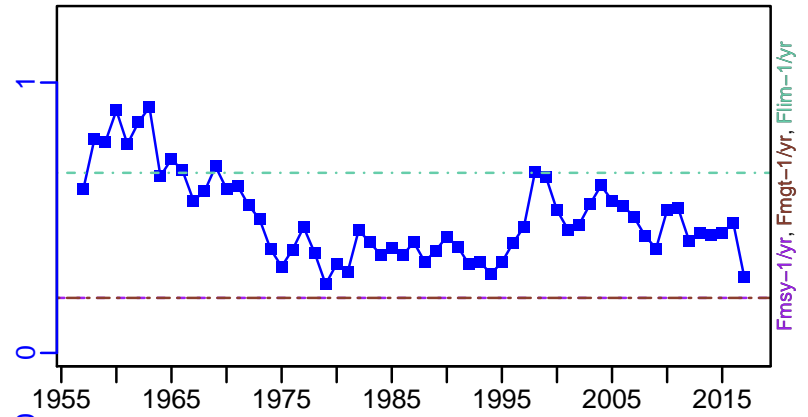
TB-MT (1956–2019–ICESIMP2021)



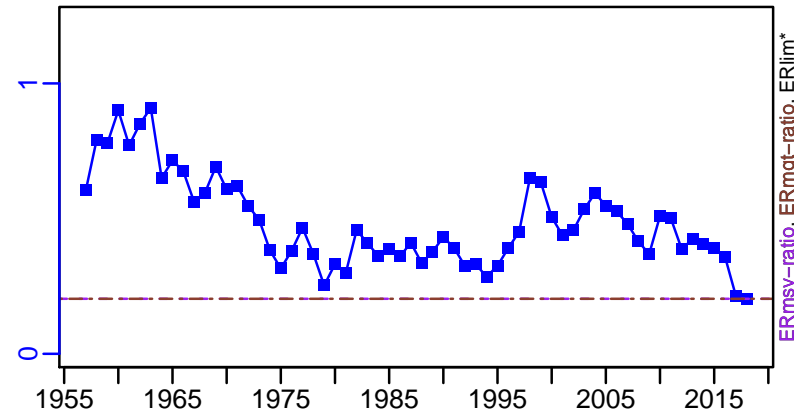
SSB-MT (1956–2019–ICESIMP2021)



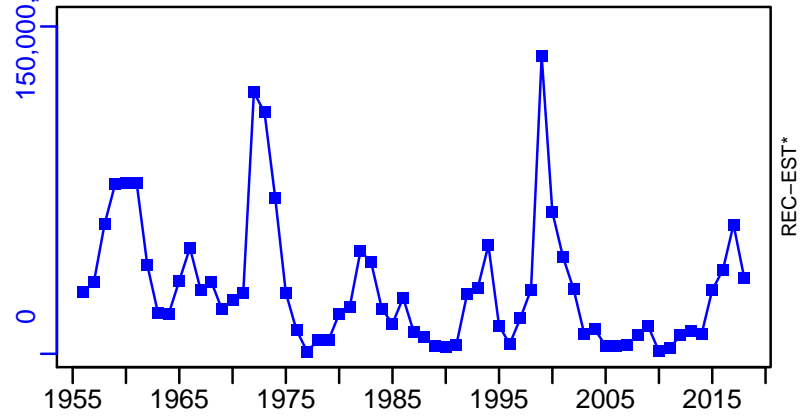
F-1/yr (1956–2018–ICESIMP2018)



ER-ratio (1956–2019–ICESIMP2021)

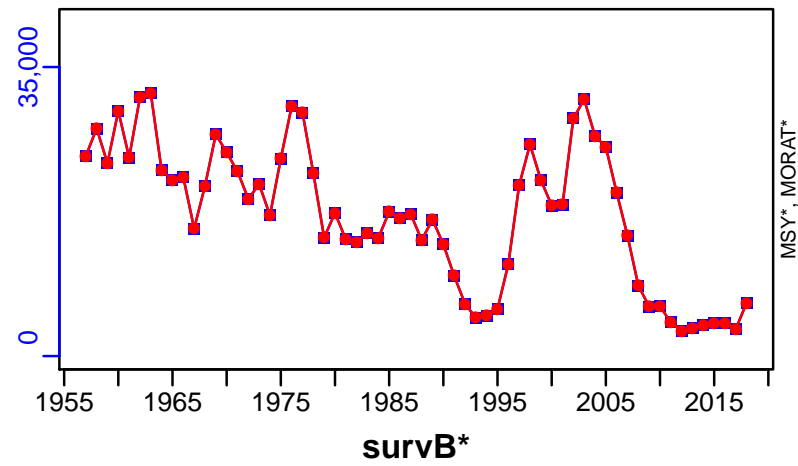


R-E00 (1956–2019–ICESIMP2021)



# Haddock Faroe Plateau [HADFAPL]

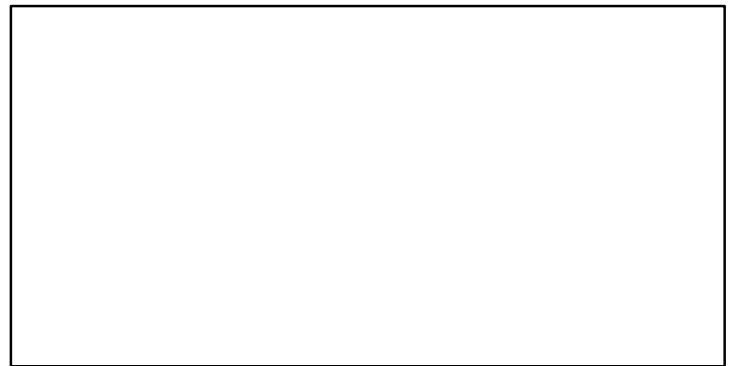
TC-MT, TL-MT, RecC\* (1956–2019–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



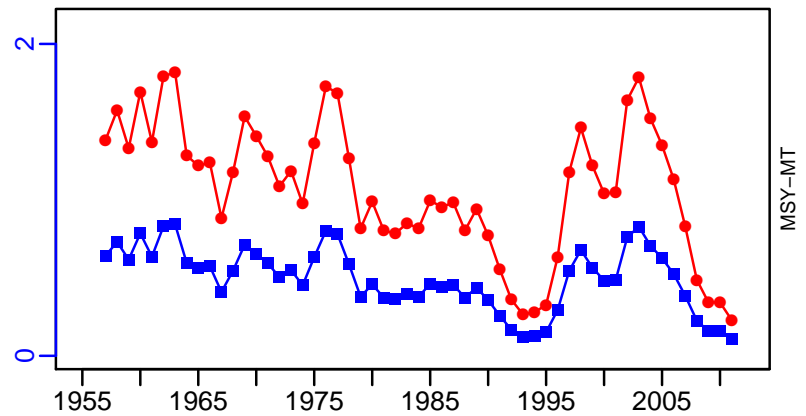
CPUE\*



EFFORT\*



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



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

## Haddock Iceland Grounds [HADICE]

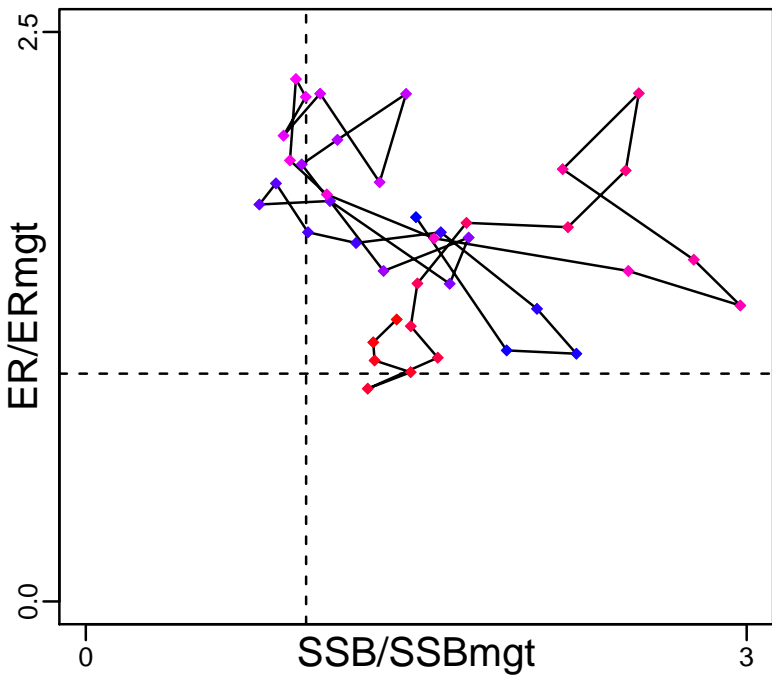
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	NWWG-HADICE-1977-2019-ICESIMP2021
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2013	172,421
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.252
<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>	MSY-est-MT	2012	81,728
<b>M</b>	-	-	-
<b>TBlim</b>	TBlim-MT	2012	45,000
<b>SSBlim</b>	SSBlim-MT	2017	45,000
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

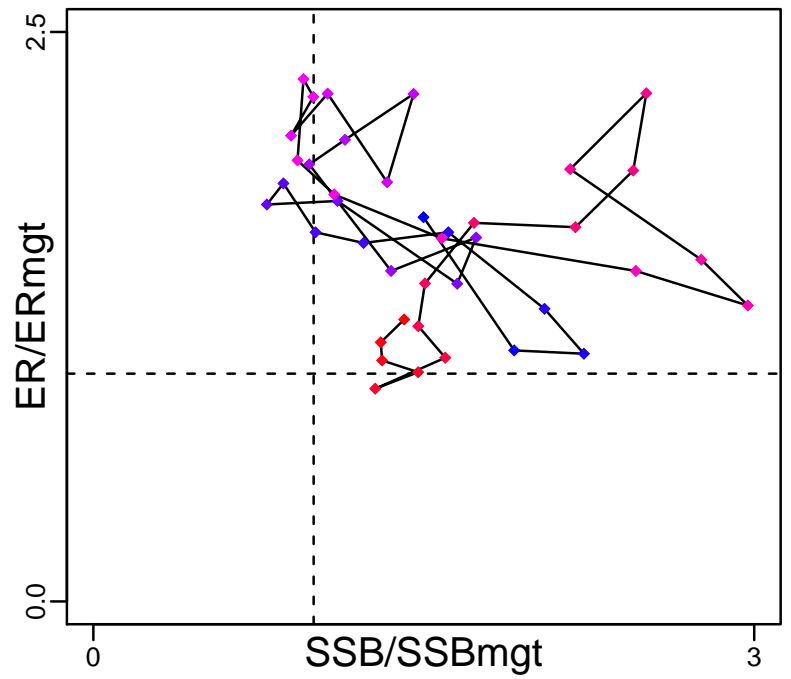
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	194	-	-
<b>SSB</b>	SSB-MT	2019	76,758	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	81,247	-	2
<b>F</b>	F-1/yr	2018	0.368	-	4 to 7
<b>ER</b>	ER-ratio	2019	0.433	-	-
<b>TC</b>	TC-MT	2019	48,860		
<b>TL</b>	TL-MT	2019	48,860		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2013	0.696		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-est-ratio	2012	1.419		
<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]

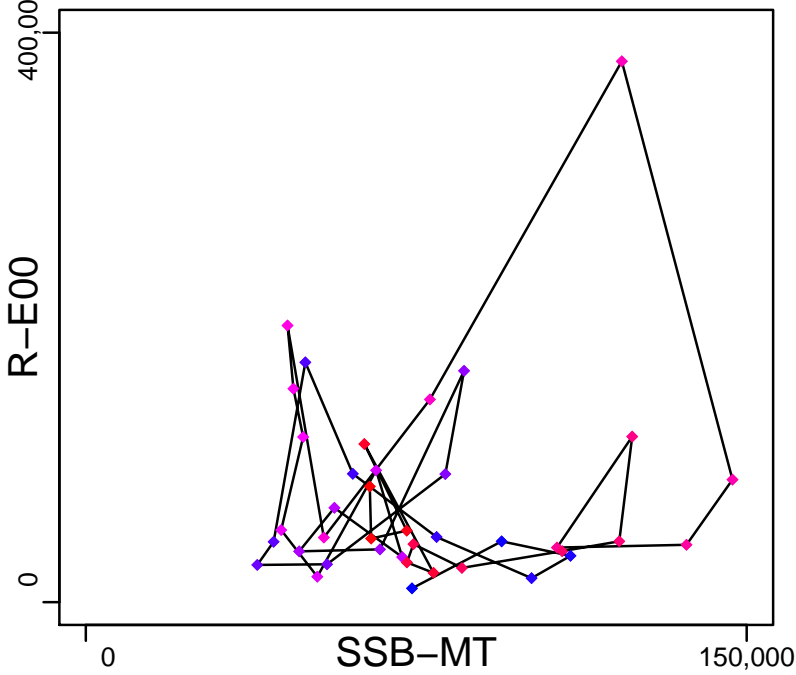
Kobe MSYpref (1977–2019–ICESIMP2021)



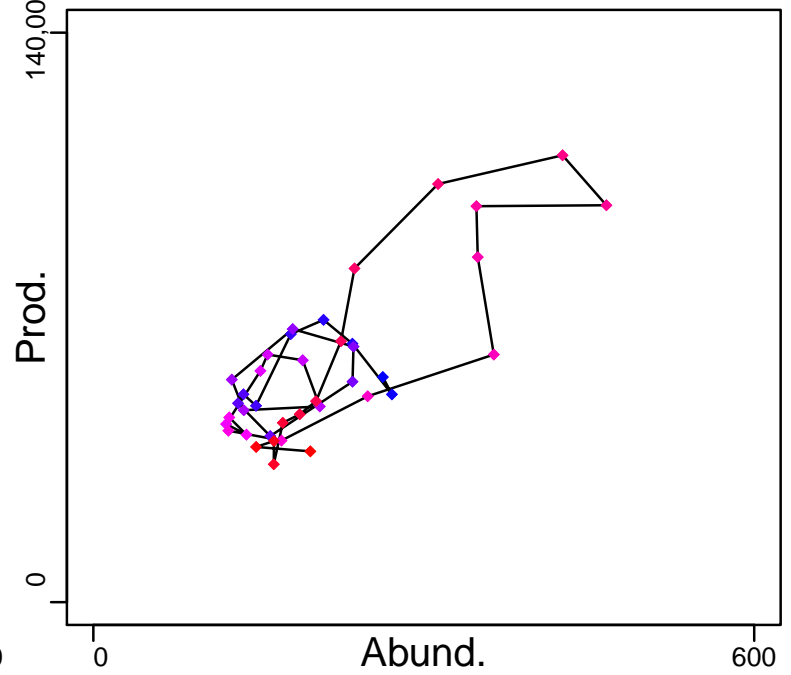
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1977–2019–ICESIMP2021)



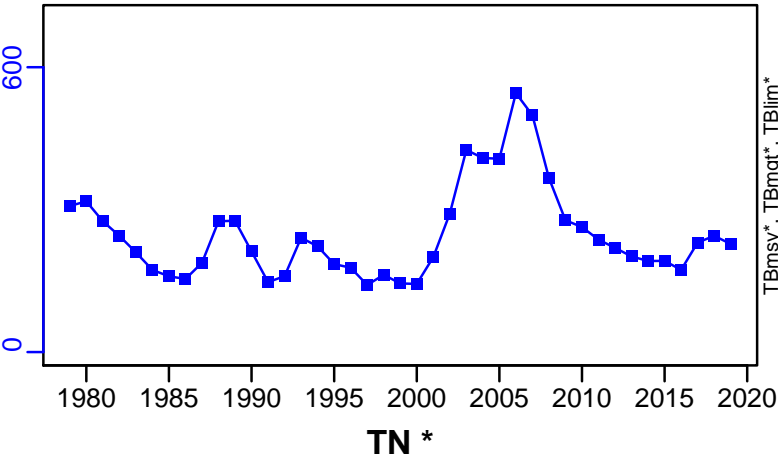
Production (1977–2019–ICESIMP2021)



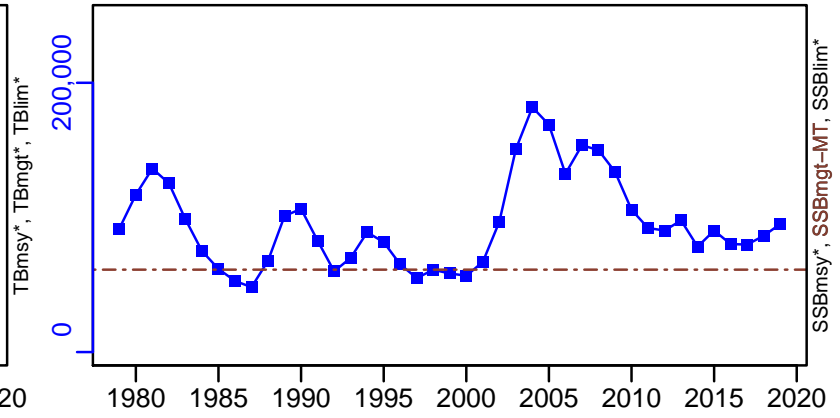
◆ Start Year ◆ End Year \* No Data

# Haddock Iceland Grounds [HADICE]

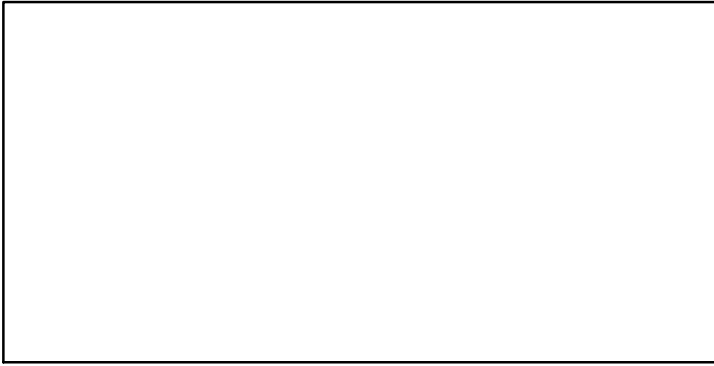
TB-MT (1977–2019–ICESIMP2021)



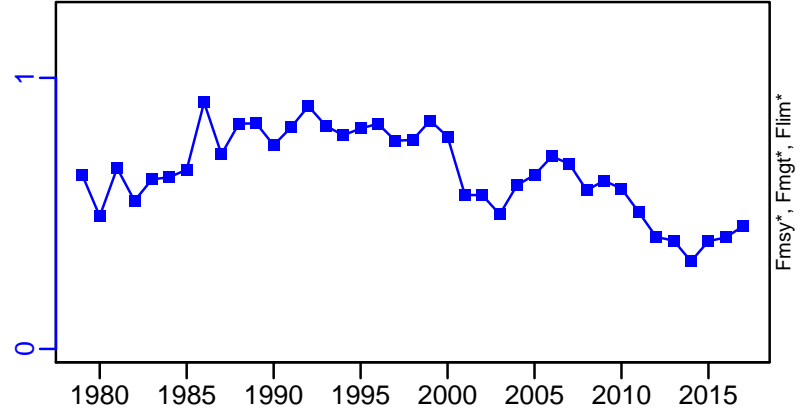
SSB-MT (1977–2019–ICESIMP2021)



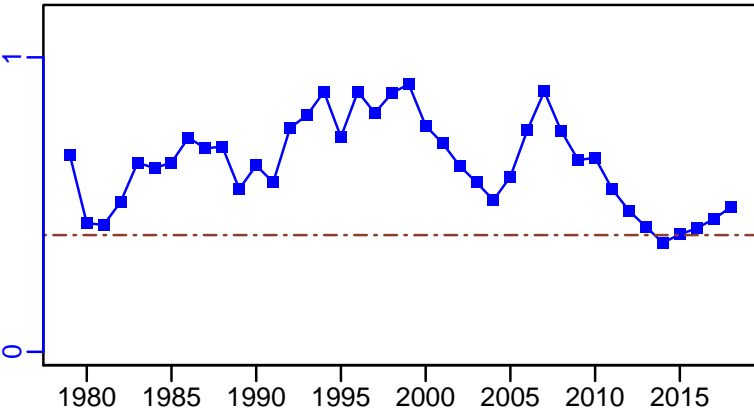
TN \*



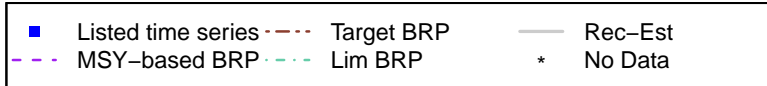
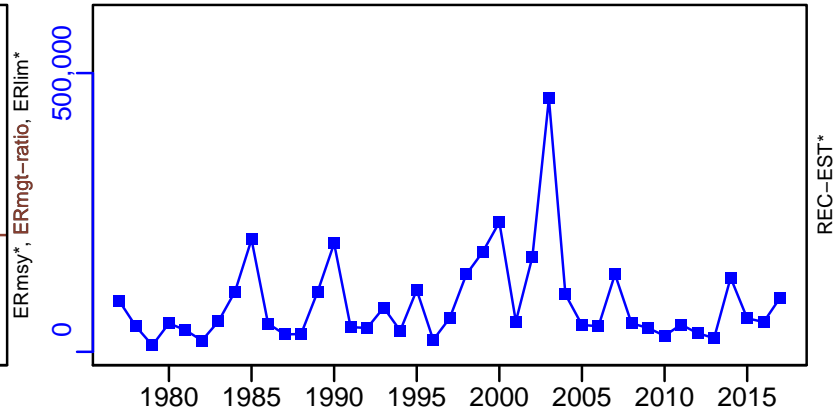
F-1/yr (1977–2018–ICESIMP2018)



ER-ratio (1977–2019–ICESIMP2021)



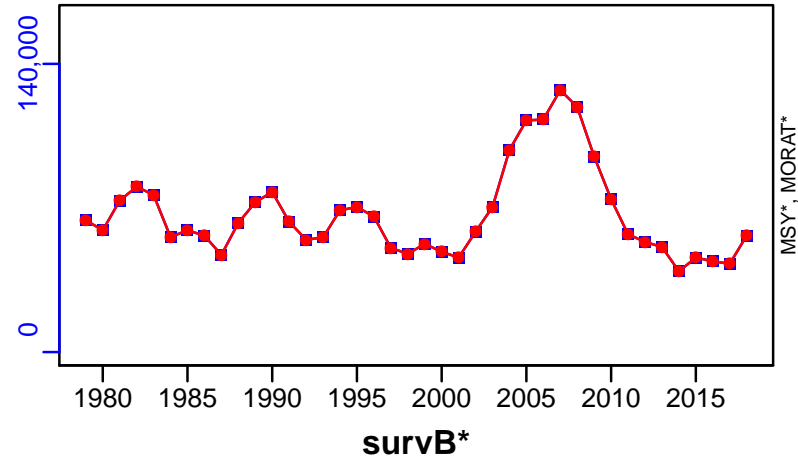
R-E00 (1977–2019–ICESIMP2021)





# Haddock Iceland Grounds [HADICE]

TC-MT, TL-MT, RecC\* (1977-2019-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



survB\*



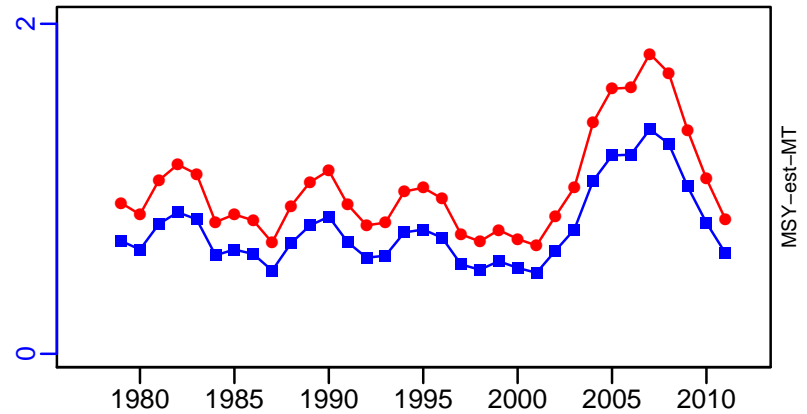
CPUE\*



EFFORT\*



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



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

## Haddock North-East Arctic [HADNEAR]

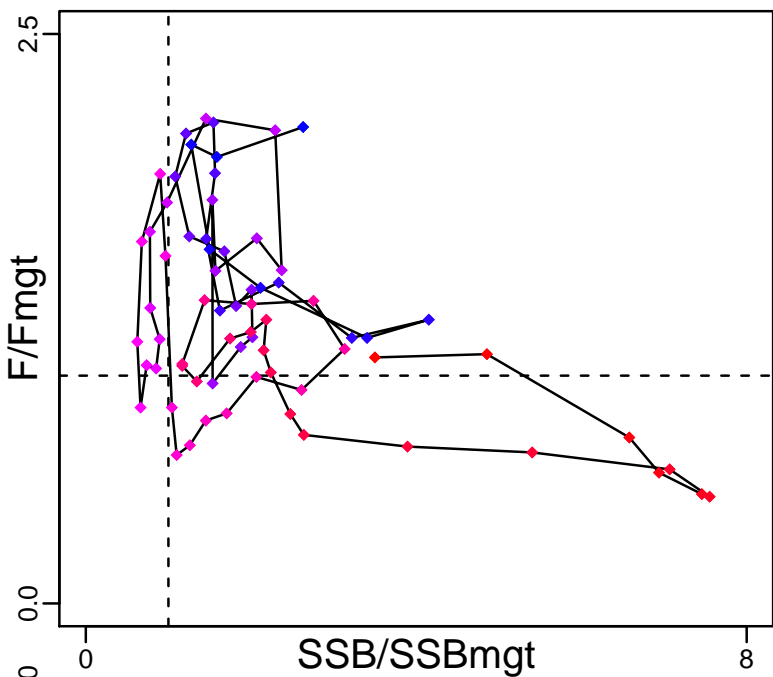
Metadata	
<b>Scientific Name</b>	Melanogrammus aeglefinus
<b>Current Assess ID</b>	AFWG-HADNEAR-1947-2019-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	905,047
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2017	0.35
<b>ERmsy</b>	ERmsy-est-ratio	2012	0.238
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	80,000
<b>Fmgt</b>	Fmgt-1/yr	2019	0.35
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	215,806
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2017	80,000
<b>Flim</b>	Flim-1/yr	2017	0.77
<b>ERlim</b>	-	-	-

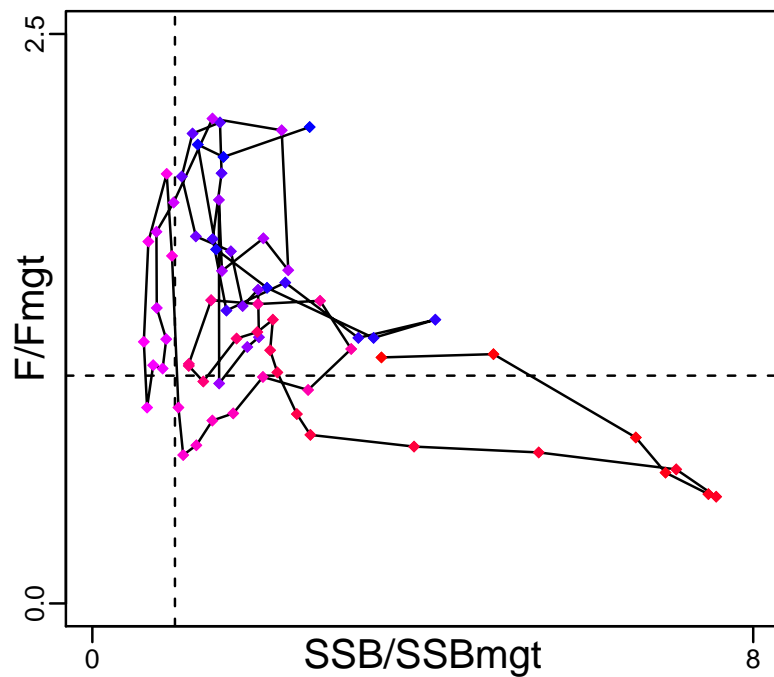
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	524,486	-	-
<b>SSB</b>	SSB-MT	2019	220,245	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	930,100,000	-	3
<b>F</b>	F-1/yr	2019	0.378	-	4 to 7
<b>ER</b>	ER-calc-ratio	2019	0.35	-	-
<b>TC</b>	TC-MT	2019	191,276		
<b>TL</b>	TL-MT	2019	191,276		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	1.16		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2017	0.571		
<b>ER/ERmsy</b>	ER-ratio/ERmsy-est-ratio	2012	1.237		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	2.753		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	1.08		
<b>ER/ERmgt</b>	-	-	-		

# Haddock North-East Arctic [HADNEAR]

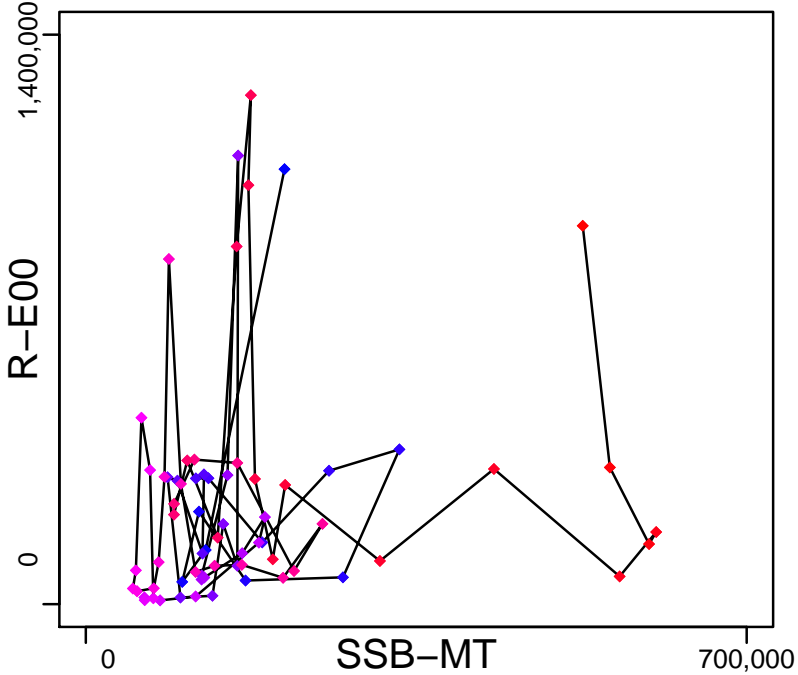
Kobe MSYpref (1947–2019–ICESIMP2021)



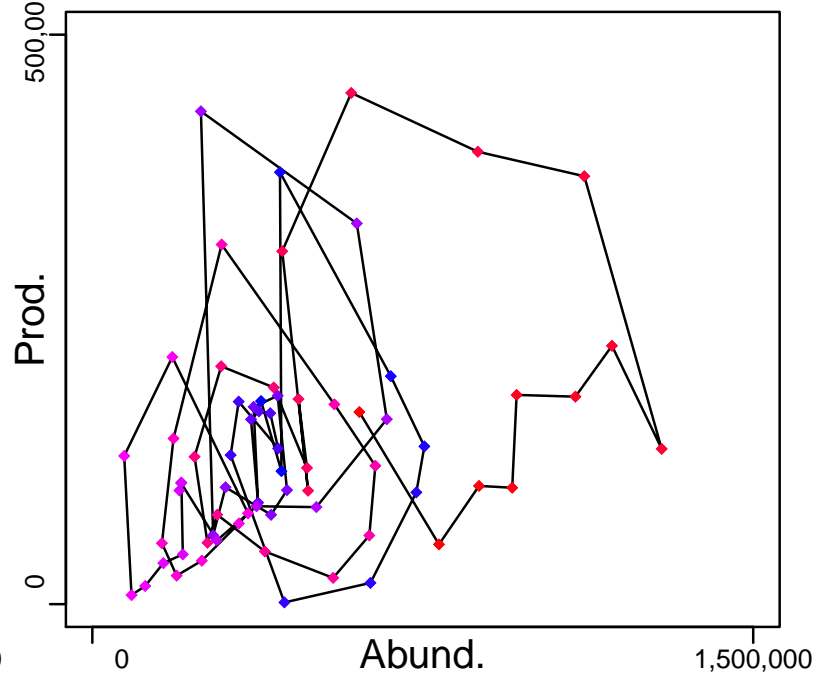
Kobe MGTpref (1947–2019–ICESIMP2021)



Spawner Recruit (1947–2019–ICESIMP2021)

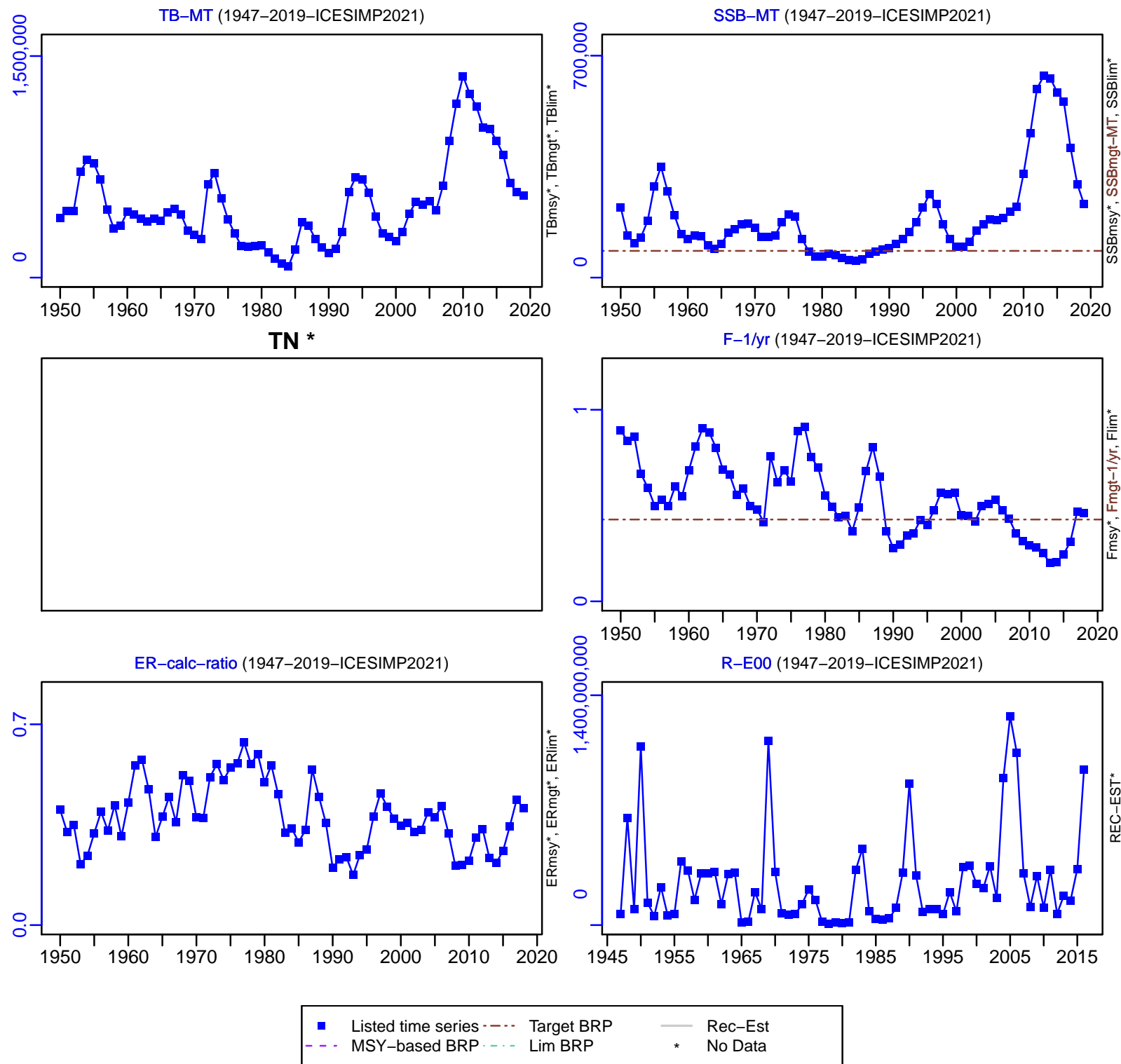


Production (1947–2019–ICESIMP2021)



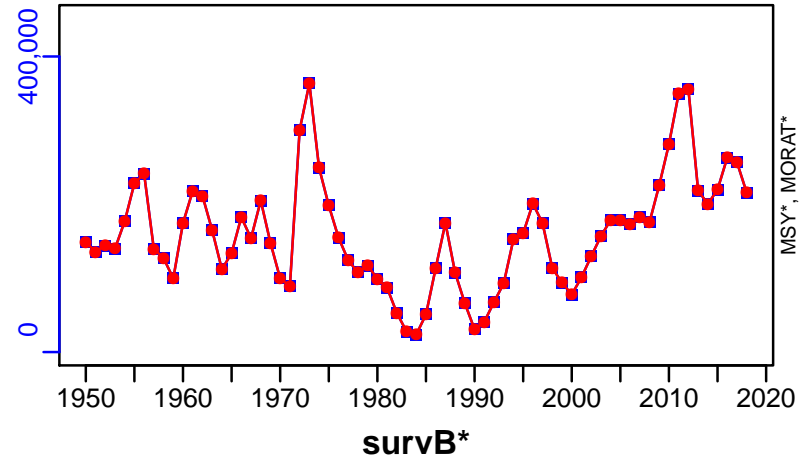
◆ Start Year ◆ End Year \* No Data

# Haddock North-East Arctic [HADNEAR]



# Haddock North-East Arctic [HADNEAR]

TC-MT, TL-MT, RecC\* (1947-2019-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



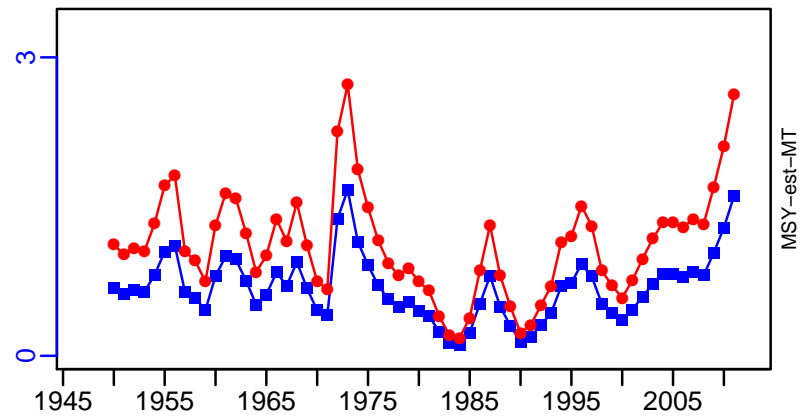
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1947-2012-CHING)



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

## Herring Iceland (Summer spawners) [HERRIsum]

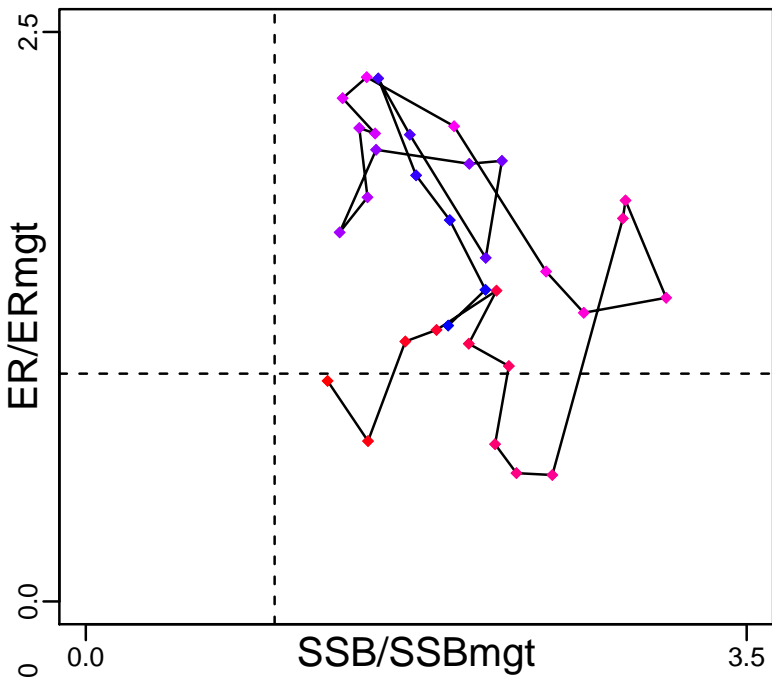
Metadata	
<b>Scientific Name</b>	Clupea harengus
<b>Current Assess ID</b>	NWWG-HERRIsum-1984-2019-ICESIMP2021
<b>Area</b>	Iceland (Summer spawners)
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2011, 2013, 2014, 2016, 2017, 2018, 2019, 2015

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2011	542,264
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2016	0.22
<b>ERmsy</b>	ERmsy-est-ratio	2016	0.234
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	$2 \times 10^5$
<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>	MSY-est-MT	2011	118,698
<b>M</b>	M-1/yr	2011	0.1
<b>TBlim</b>	TBlim-MT	2011	$2 \times 10^5$
<b>SSBlim</b>	SSBlim-MT	2018	$2 \times 10^5$
<b>Flim</b>	Flim-1/yr	2018	0.61
<b>ERlim</b>	-	-	-

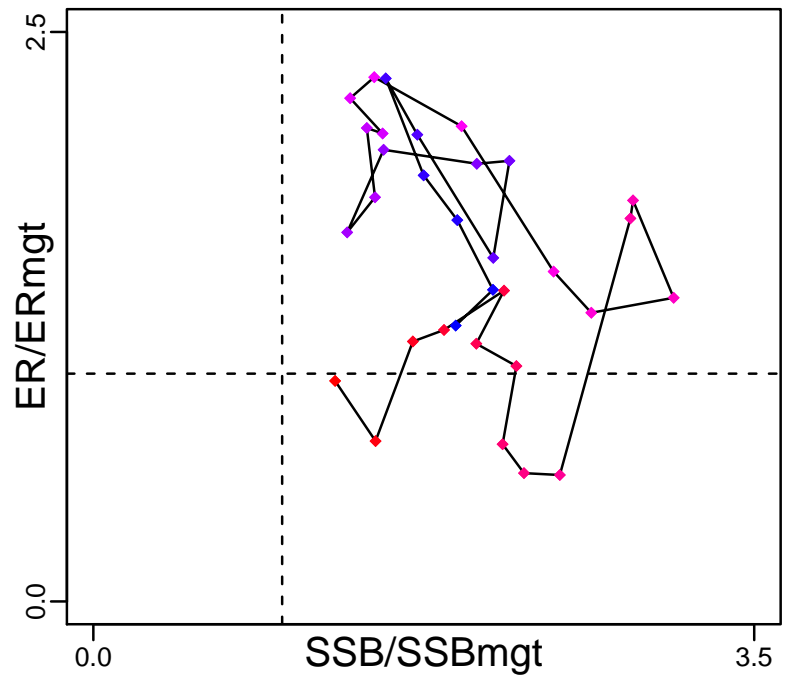
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2015	438,000	Both	3+
<b>SSB</b>	SSB-MT	2019	212,481	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	$3.6 \times 10^8$	-	3
<b>F</b>	F-1/yr	2019	0.175	-	5 to 10
<b>ER</b>	ER-ratio	2019	0.145	-	-
<b>TC</b>	TC-MT	2019	40,683		
<b>TL</b>	TL-MT	2019	40,683		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2011	1.108		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	0.995		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2016	0.725		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	1.062		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	0.995		
<b>ER/ERmgt</b>	-	-	-		

# Herring Iceland (Summer spawners) [HERRIsum]

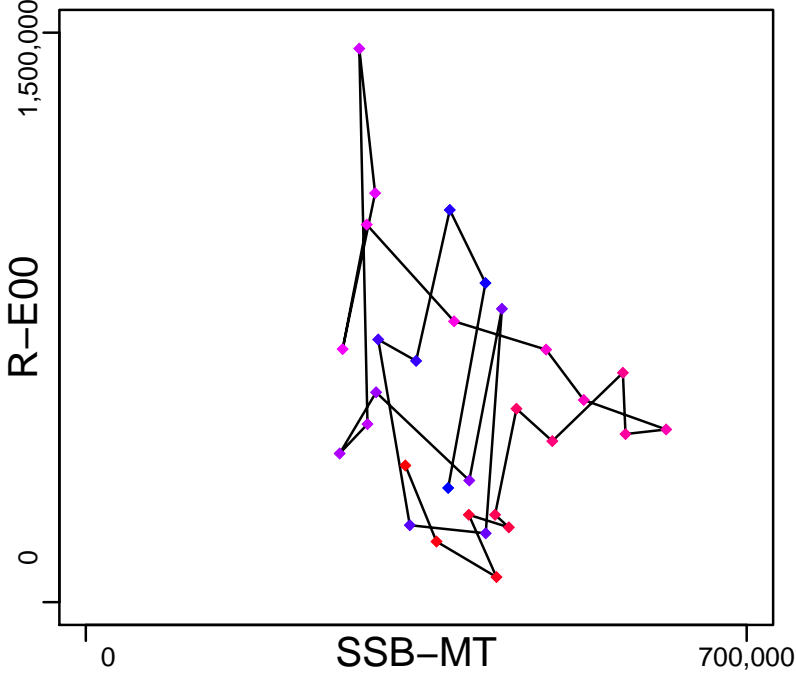
Kobe MSYpref (1984–2019–ICESIMP2021)



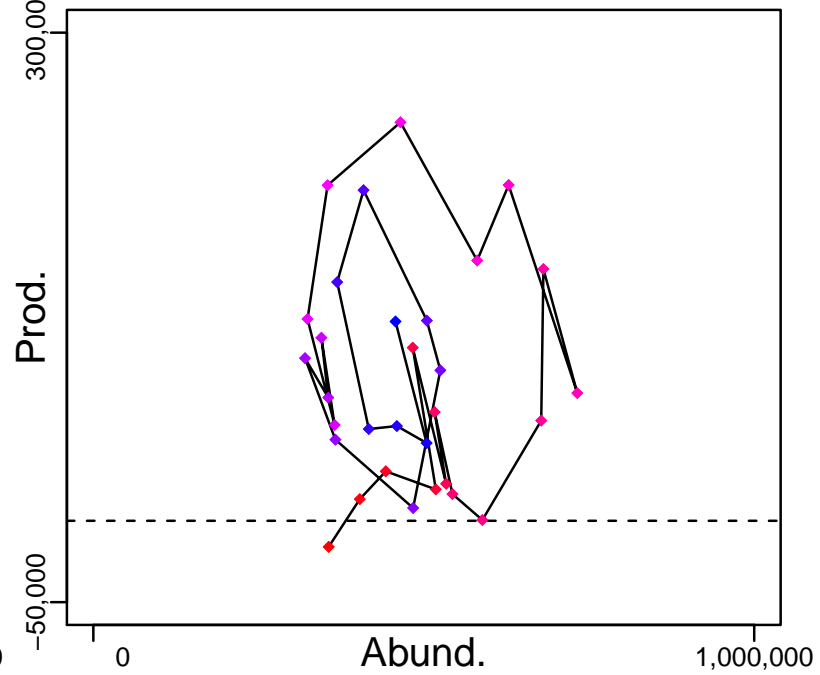
Kobe MGTpref (1984–2019–ICESIMP2021)



Spawner Recruit (1984–2019–ICESIMP2021)



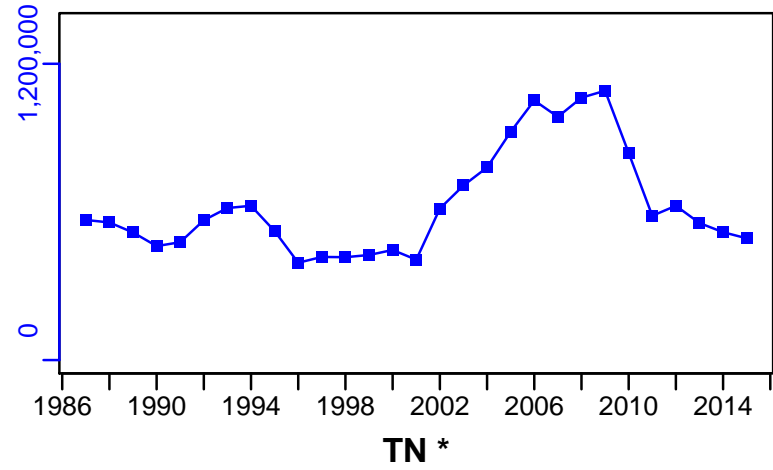
Production (1984–2019–ICESIMP2021)



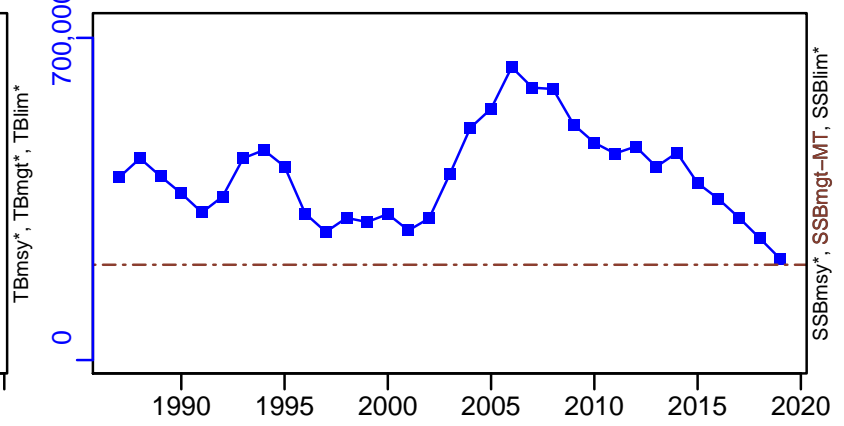
◆ Start Year ◆ End Year \* No Data

# Herring Iceland (Summer spawners) [HERRIsum]

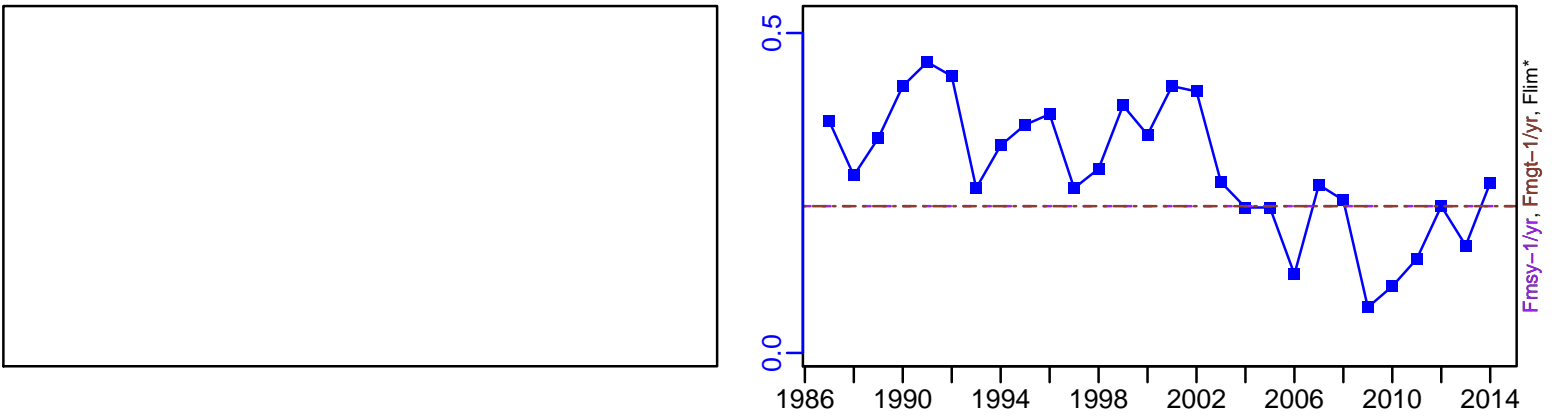
TB-MT (1987–2015–ICESIMP2016)



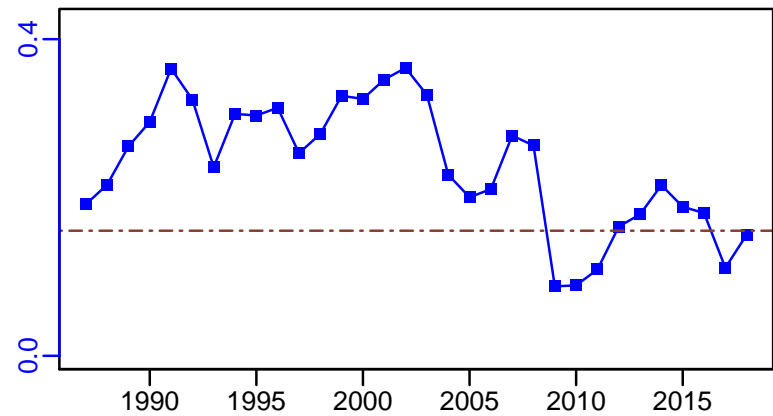
SSB-MT (1984–2019–ICESIMP2021)



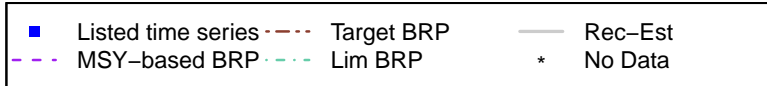
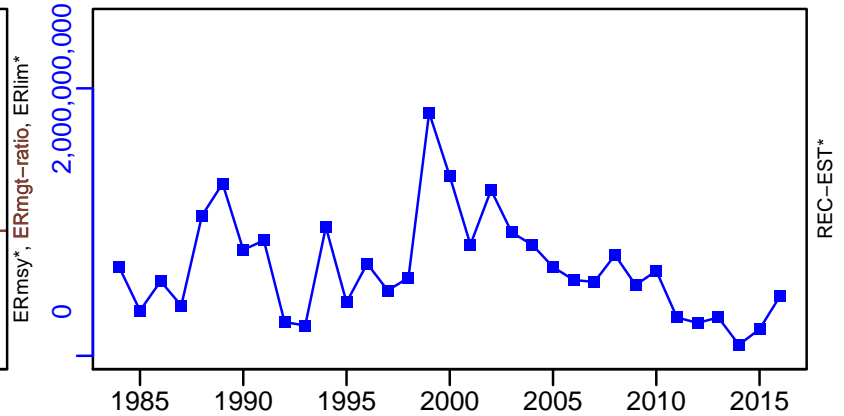
F-1/yr (1987–2015–ICESIMP2016)



ER-ratio (1984–2019–ICESIMP2021)



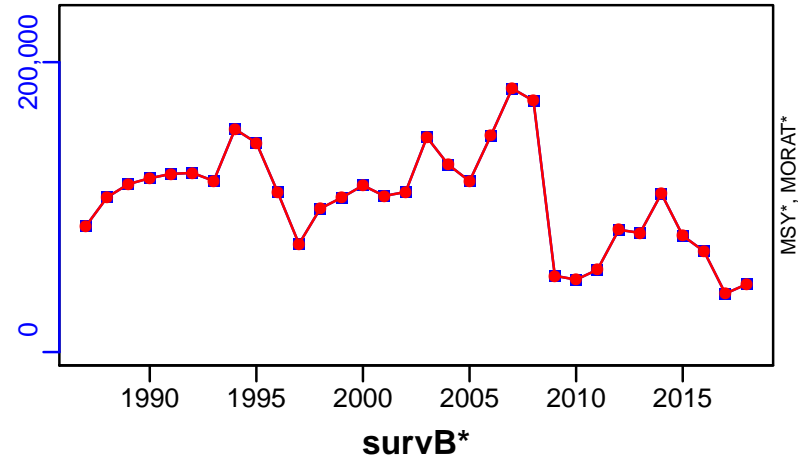
R-E00 (1984–2019–ICESIMP2021)





# Herring Iceland (Summer spawners) [HERRIsum]

TC-MT, TL-MT, RecC\* (1984–2019–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



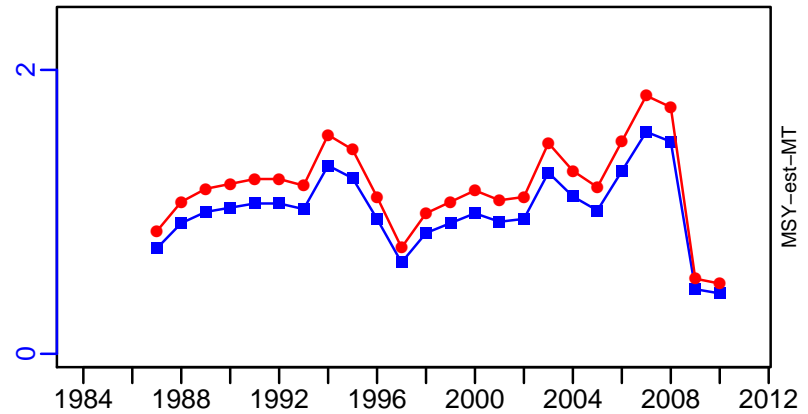
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1984–2011–NEUBAUER)



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

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

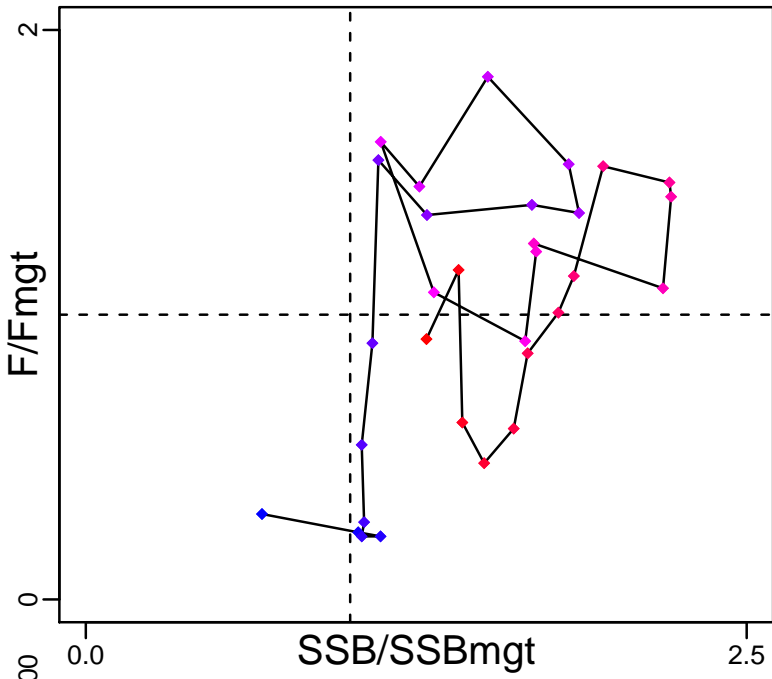
Metadata	
Scientific Name	Clupea harengus
Current Assess ID	WGWIDE-HERRNORSS-1986-2019-ICESIMP2021
Area	ICES 1-2-4a-5-14a (Norwegian Spring Spawners)
Management Authority	International Council for the Exploration of the Sea
Assessor	Working Group on Widely Distributed Stocks
Asmts in RAM	2014, 2016, 2017, 2019, 2013, 2015

Reference Points			
Type	ID	Asmt Year	Value
TBmsy	-	-	-
SSBmsy	-	-	-
Fmsy	Fmsy-1/yr	2017	0.15
ERmsy	ERmsy-est-ratio	2019	0.124
TBmgt	-	-	-
SSBmgt	SSBmgt-MT	2019	3,184,000
Fmgt	Fmgt-1/yr	2019	0.14
ERmgt	-	-	-
TB0	-	-	-
SSB0	-	-	-
MSY	-	-	-
M	-	-	-
TBlim	-	-	-
SSBlim	SSBlim-MT	2017	2,500,000
Flim	-	-	-
ERlim	-	-	-

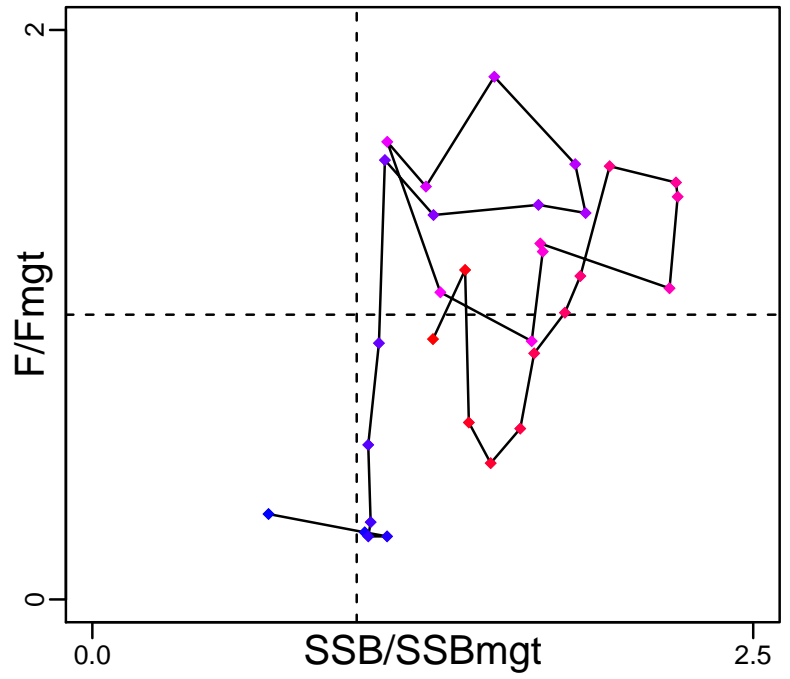
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	TB-MT	2019	5,317,000	-	-
SSB	SSB-MT	2019	3,965,000	-	-
TN	-	-	-	-	-
R	R-E00	2019	$8.11 \times 10^9$	-	2
F	F-1/yr	2019	0.128	-	5 to 12+
ER	ER-calc-ratio	2019	0.105	-	-
TC	TC-MT	2019	592,899		
TL	TL-MT	2019	592,899		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	F-1/yr/Fmsy-1/yr	2017	0.56		
ER/ERmsy	ER-calc-ratio/ERmsy-est-ratio	2019	0.843		
TB/TBmgt	-	-	-		
SSB/SSBmgt	SSB-MT/SSBmgt-MT	2019	1.245		
F/Fmgt	F-1/yr/Fmgt-1/yr	2019	0.914		
ER/ERmgt	-	-	-		

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

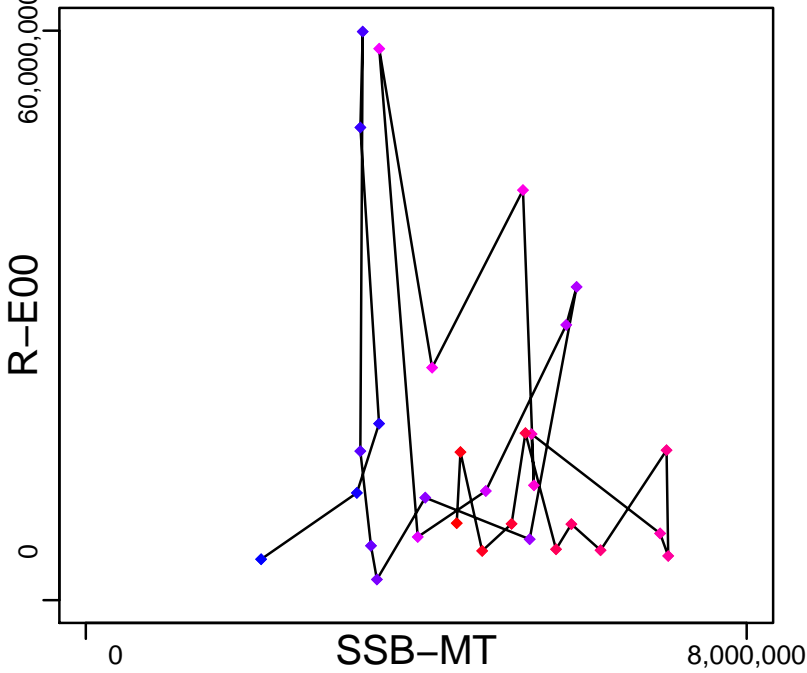
Kobe MSYpref (1986-2019-ICESIMP2021)



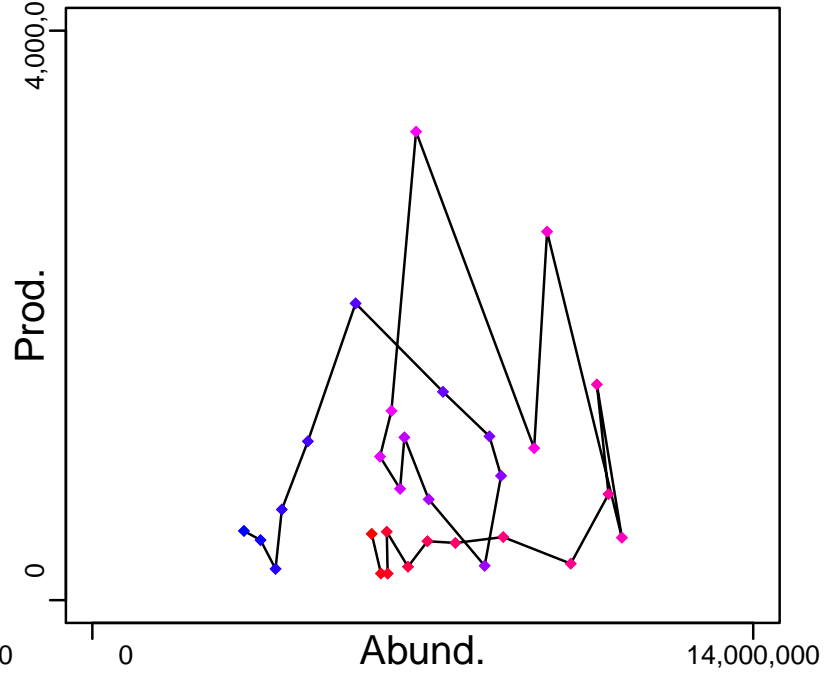
Kobe MGTpref (1986-2019-ICESIMP2021)



Spawner Recruit (1986-2019-ICESIMP2021)



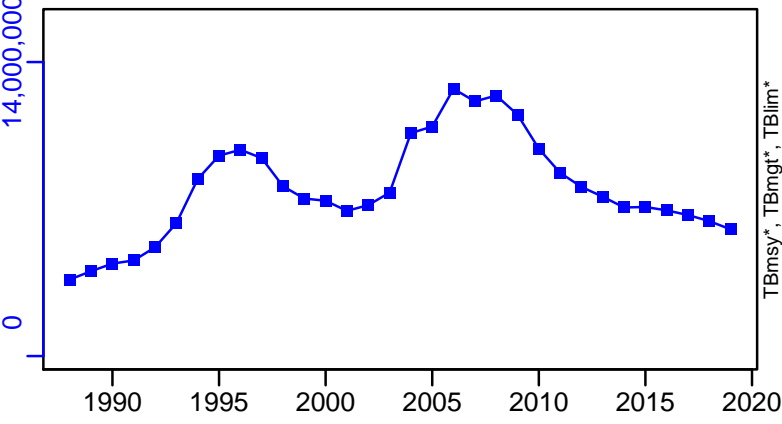
Production (1986-2019-ICESIMP2021)



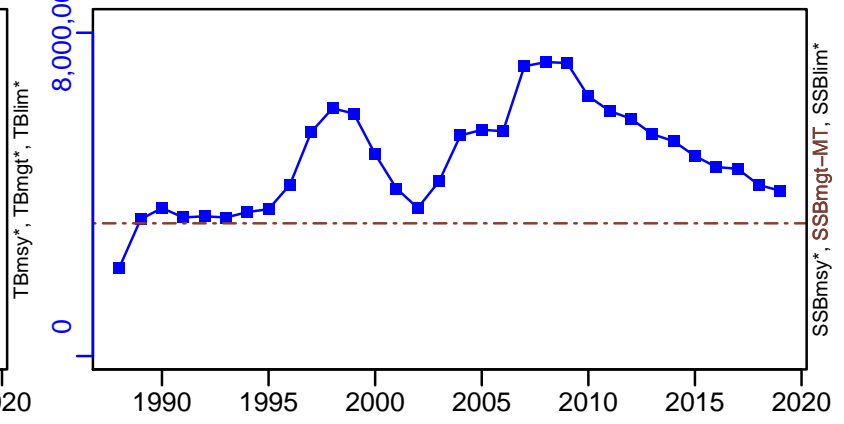
◆ Start Year ◆ End Year \* No Data

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

TB-MT (1986-2019-ICESIMP2021)



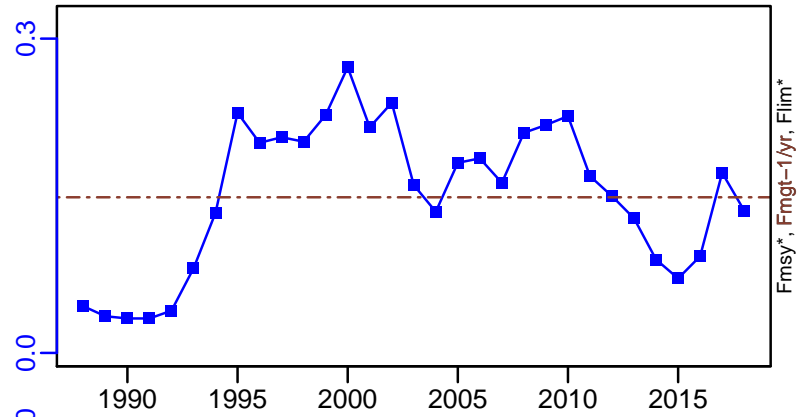
SSB-MT (1986-2019-ICESIMP2021)



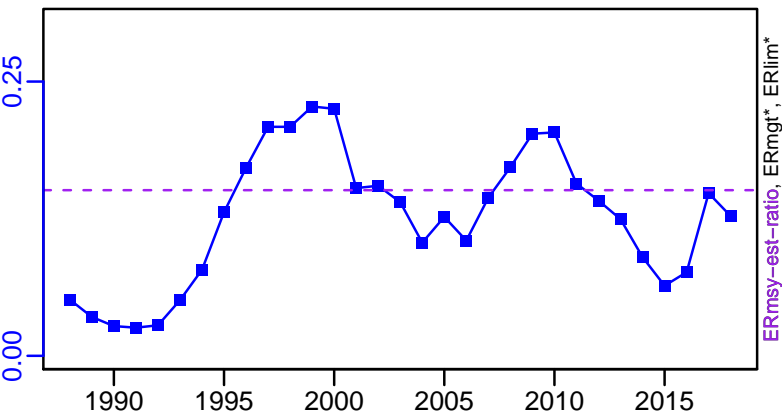
TN \*



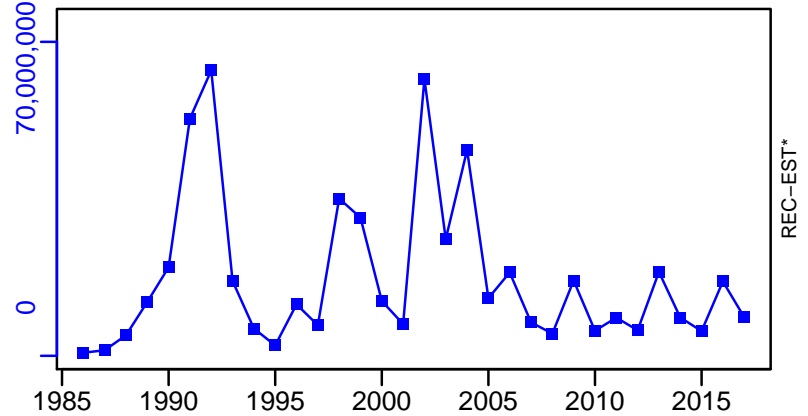
F-1/yr (1986-2019-ICESIMP2021)



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

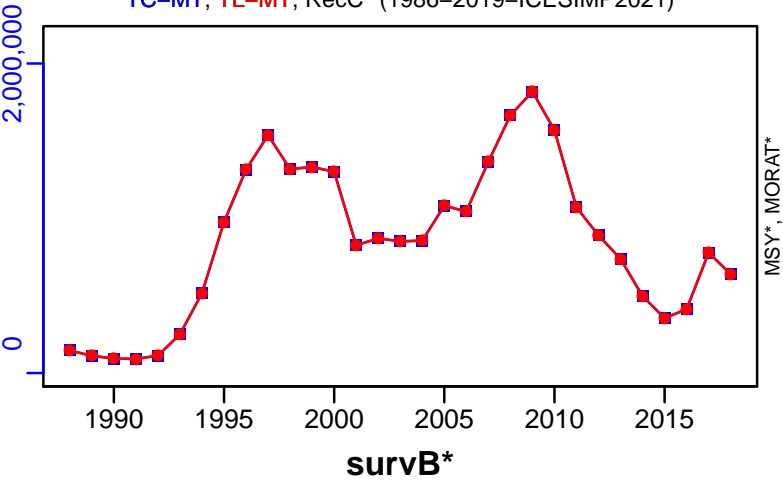


R-E00 (1986-2019-ICESIMP2021)



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

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



TAC\*, Cpair\*, Cadv\*



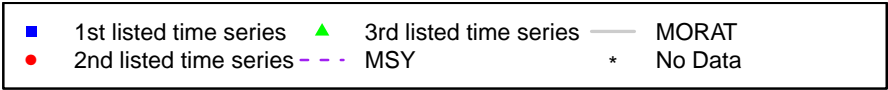
CPUE\*



EFFORT\*



CdivMSY\*



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

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

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	2018	11,613		
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\*



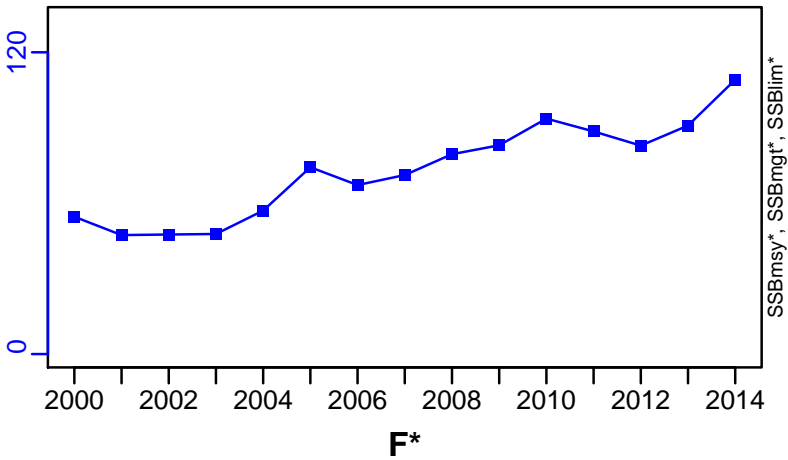
◆ Start Year   ◆ End Year   \* No Data

Ling North-East Arctic [LINGI-II]

TB\*



SSB-index (1988–2014–ICESIMP2018)



TN \*



F\*



ER\*



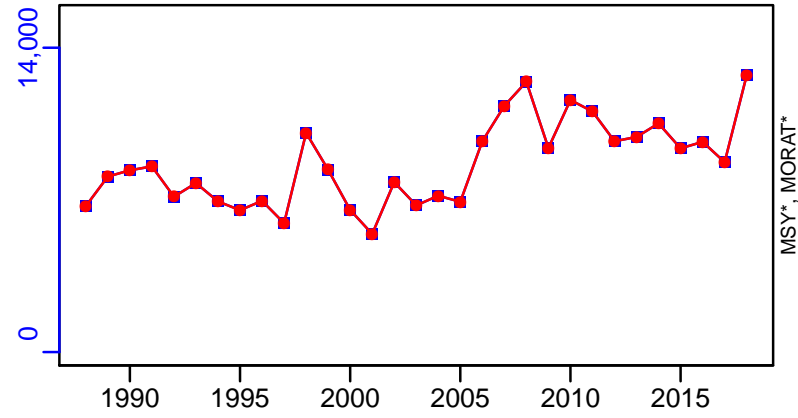
Recruits\*





# Ling North-East Arctic [LINGI-II]

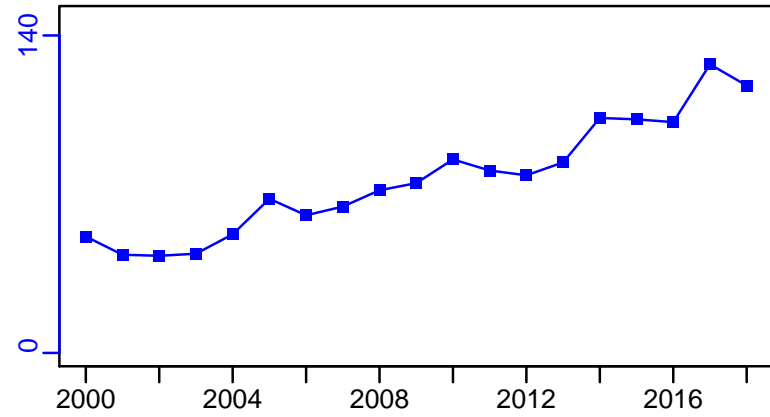
TC-MT, TL-MT, RecC\* (1988-2018-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



survB-MT (1988-2018-ICESIMP2021)



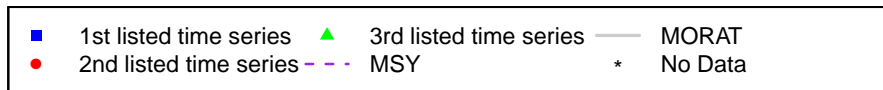
CPUE\*



EFFORT\*



CdivMSY\*



## Ling Iceland Grounds [LINGVa]

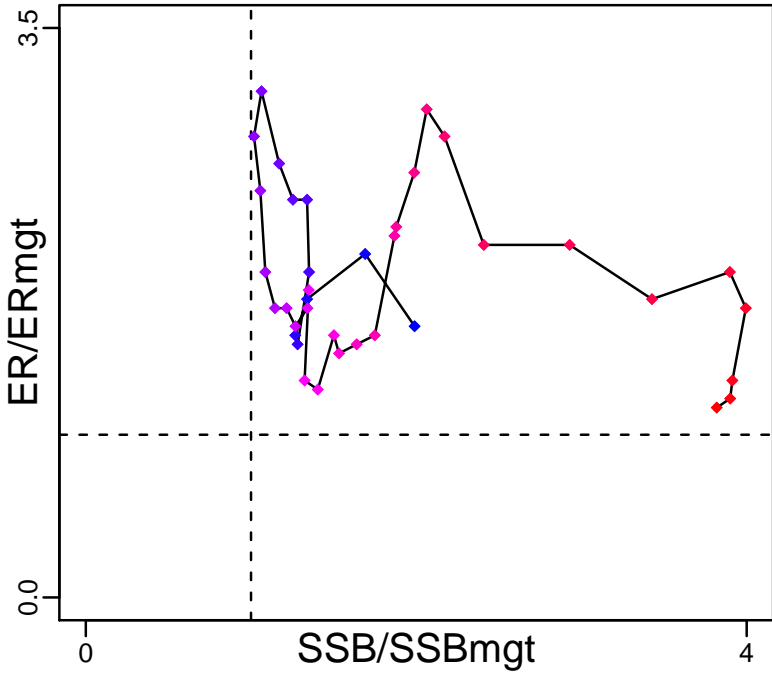
Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVa-1979-2019-ICESIMP2021
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources
<b>Asmts in RAM</b>	2014, 2017, 2018, 2019, 2015, 2016

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	2019	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	2018	7090
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

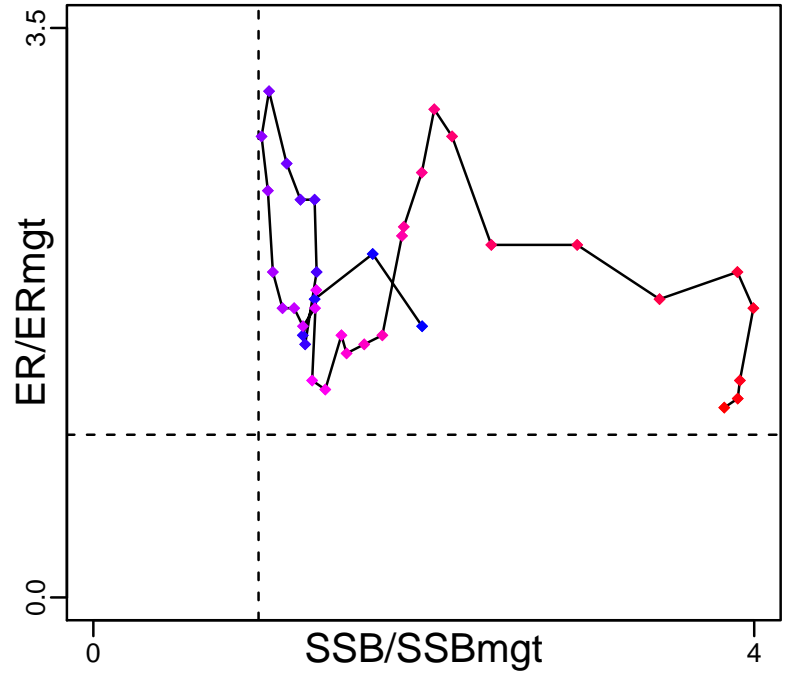
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	56,100	Both	-
<b>SSB</b>	SSB-MT	2019	36,450	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	3,180,000	-	3
<b>F</b>	F-1/yr	2016	0.28	-	-
<b>ER</b>	ER-ratio	2019	0.21	-	-
<b>TC</b>	TC-MT	2019	8060		
<b>TL</b>	TL-MT	2014	11,700		
<b>TB/TBmsy</b>	-	-	-		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2016	1.167		
<b>ER/ERmsy</b>	-	-	-		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	3.671		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2016	1.167		
<b>ER/ERmgt</b>	-	-	-		

# Ling Iceland Grounds [LINGVa]

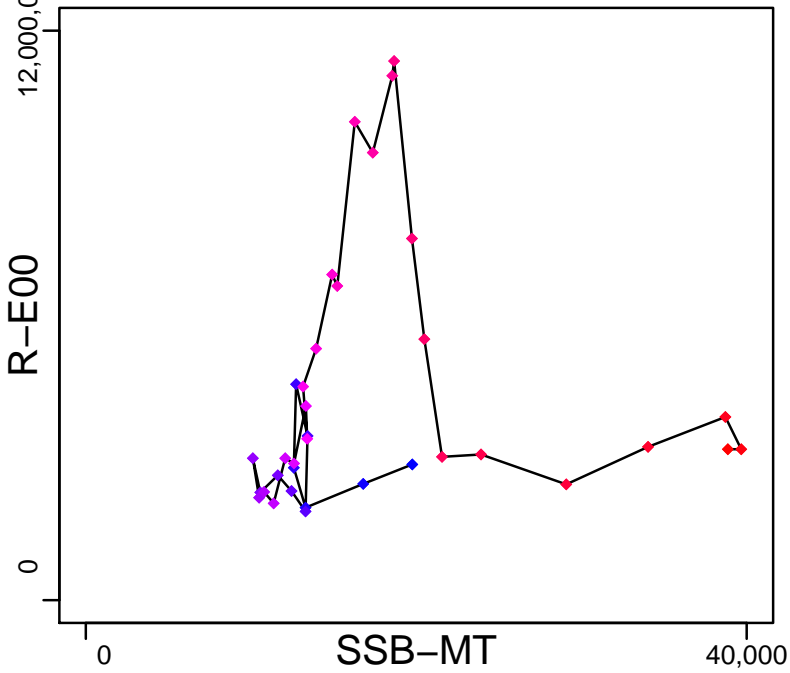
Kobe MSYpref (1979–2019–ICESIMP2021)



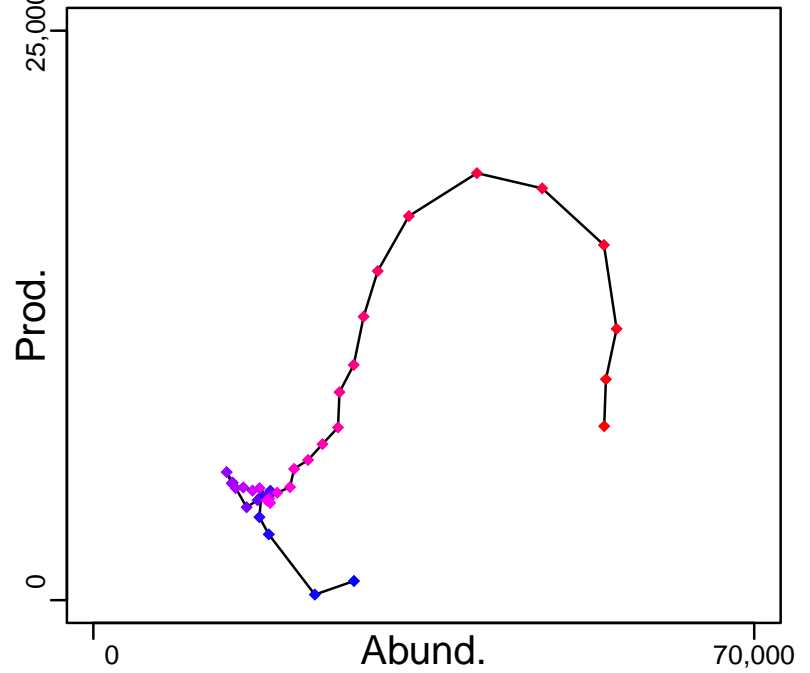
Kobe MGTpref (1979–2019–ICESIMP2021)



Spawner Recruit (1979–2019–ICESIMP2021)



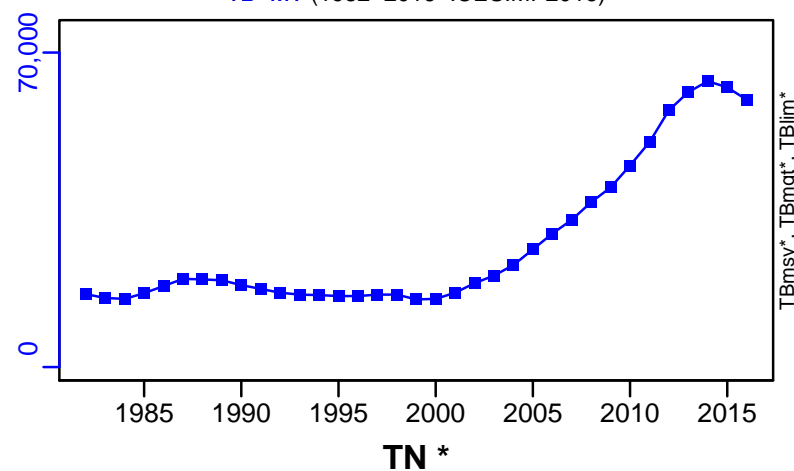
Production (1979–2019–ICESIMP2021)



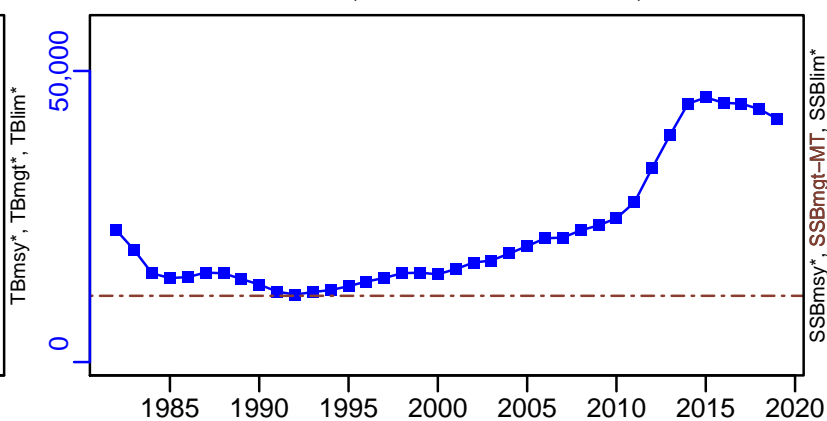
◆ Start Year ◆ End Year \* No Data

# Ling Iceland Grounds [LINGVa]

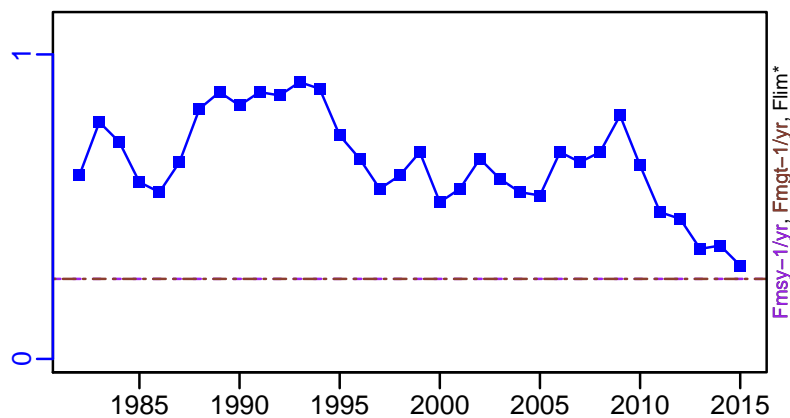
TB-MT (1982–2016–ICESIMP2016)



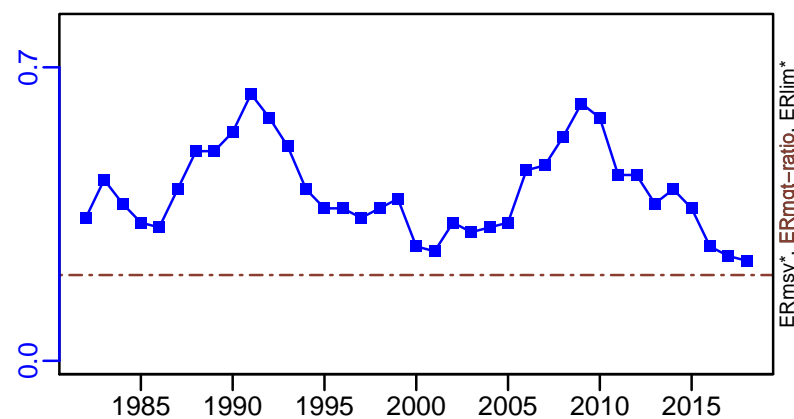
SSB-MT (1979–2019–ICESIMP2021)



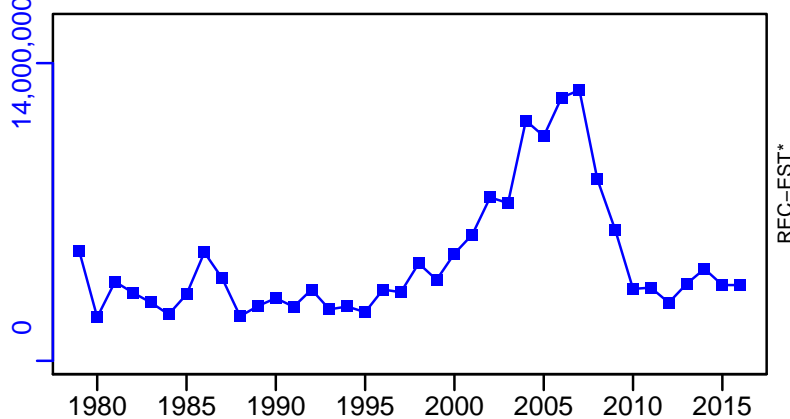
F-1/yr (1982–2016–ICESIMP2016)



ER-ratio (1979–2019–ICESIMP2021)

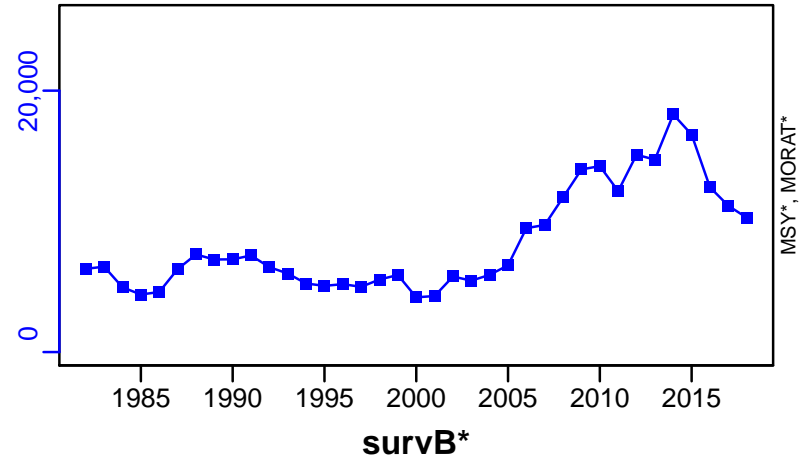


R-E00 (1979–2019–ICESIMP2021)



# Ling Iceland Grounds [LINGVa]

TC-MT, TL\*, RecC\* (1979-2019-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*



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

## Ling Faroe Grounds [LINGVb]

Metadata	
<b>Scientific Name</b>	Molva molva
<b>Current Assess ID</b>	WGDEEP-LINGVb-1988-2018-ICESIMP2021
<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

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

Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	SSB-index	2014	33	Both	-
TN	-	-	-	-	-
R	-	-	-	-	-
F	-	-	-	-	-
ER	-	-	-	-	-
TC	-	-	-		
TL	TL-MT	2018	5185		
TB/TBmsy	-	-	-		
SSB/SSBmsy	-	-	-		
F/Fmsy	-	-	-		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

**Kobe MSY\***



**Kobe MGT\***



**Spawner Recruit\***



**Production\***



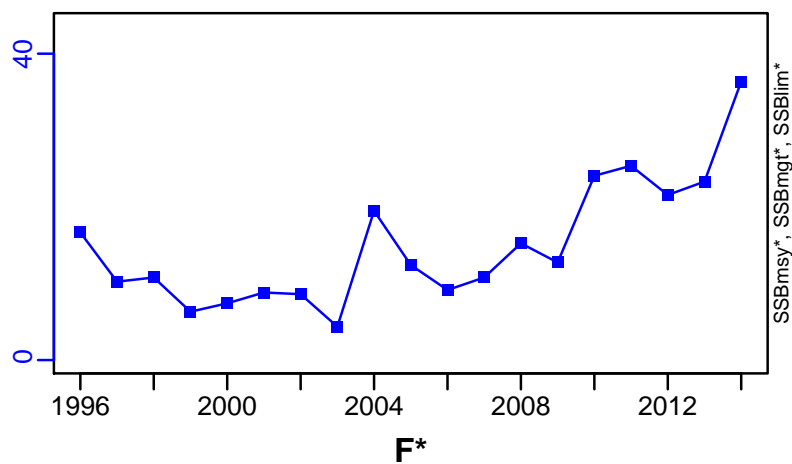
◆ Start Year ◆ End Year \* No Data

# Ling Faroe Grounds [LINGVb]

TB\*



SSB-index (1965–2014–ICESIMP2018)



TN \*



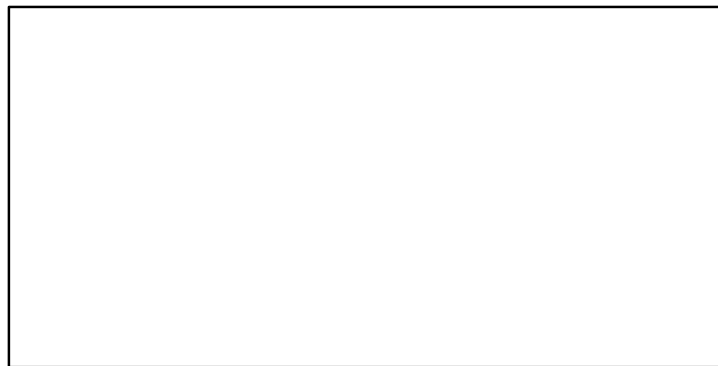
F\*



ER\*



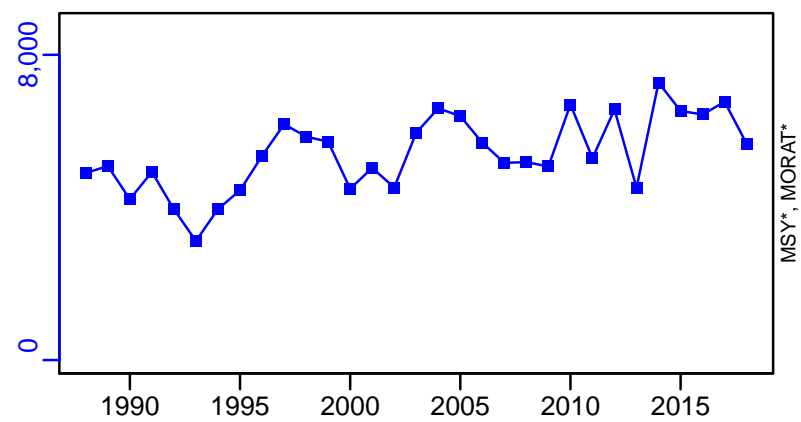
Recruits\*



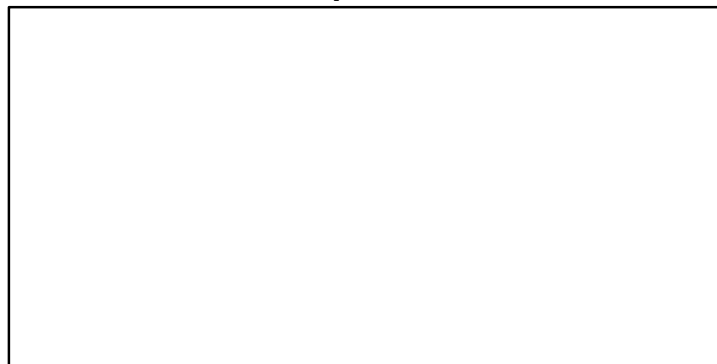


# Ling Faroe Grounds [LINGVb]

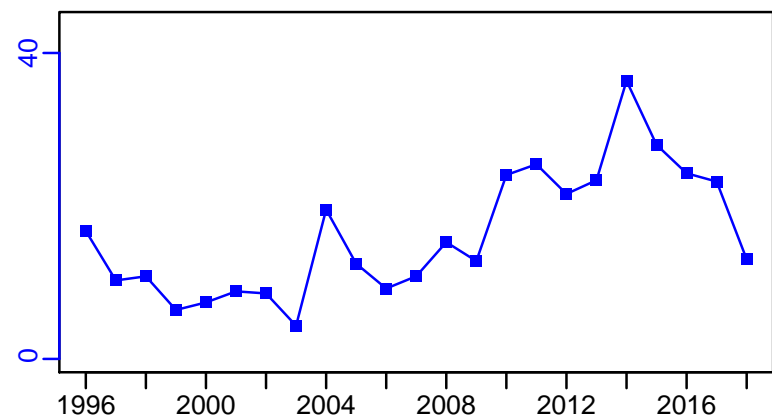
TL-MT, TC\*, RecC\* (1988–2018–ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



survB-index (1988–2018–ICESIMP2021)



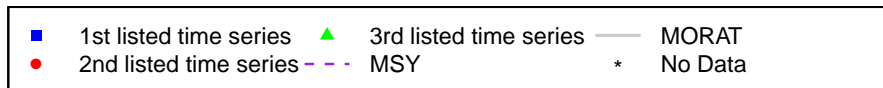
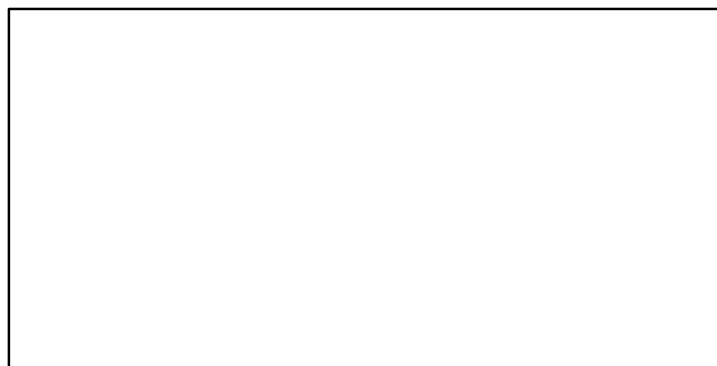
CPUE\*



EFFORT\*



CdivMSY\*



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

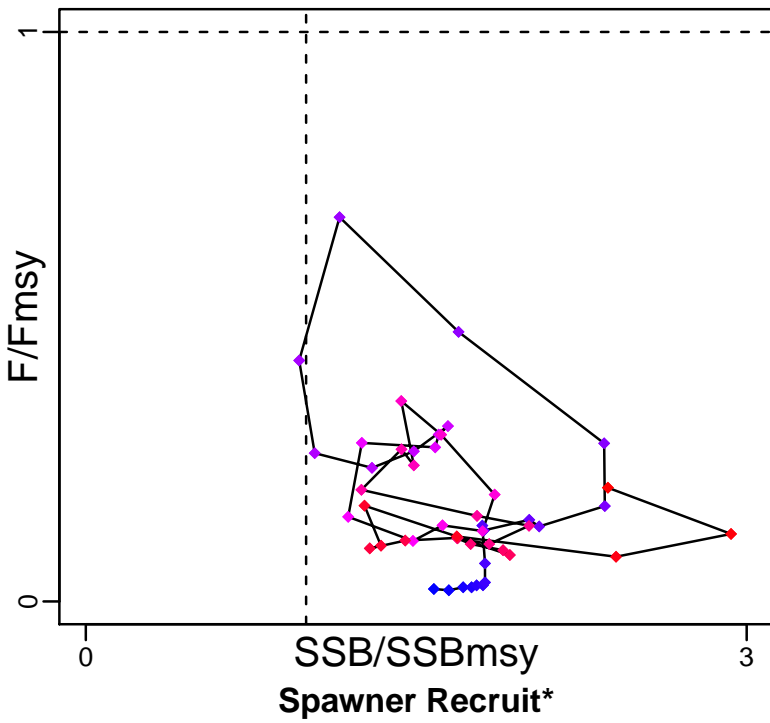
Metadata	
<b>Scientific Name</b>	Pandalus borealis
<b>Current Assess ID</b>	NIPAG-PANDALI-II-1970-2019-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Joint NAFO and ICES Pandalus Assessment Working Group
<b>Asmts in RAM</b>	2014, 2015, 2016, 2017, 2019

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

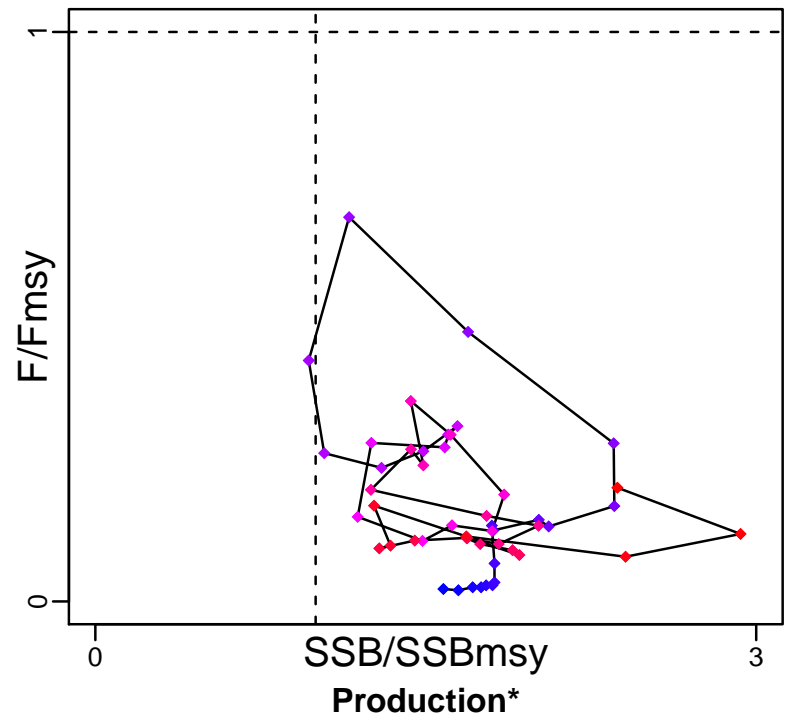
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
TB	-	-	-	-	-
SSB	-	-	-	-	-
TN	-	-	-	-	-
R	R-E00	2015	0	-	0
F	-	-	-	-	-
ER	-	-	-	-	-
TC	TC-MT	2017	28,000		
TL	TL-MT	2019	78,000		
TB/TBmsy	-	-	-		
SSB/SSBmsy	SSBdivSSBmsy-dimensionless	2019	2.37		
F/Fmsy	FdivFmsy-dimensionless	2019	0.2		
ER/ERmsy	-	-	-		
TB/TBmgt	-	-	-		
SSB/SSBmgt	-	-	-		
F/Fmgt	-	-	-		
ER/ERmgt	-	-	-		

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

Kobe MSYpref (1970–2019–ICESIMP2021)



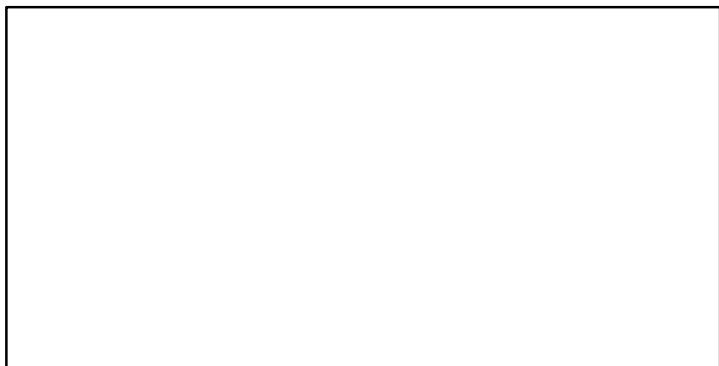
Kobe MGTpref (1970–2019–ICESIMP2021)



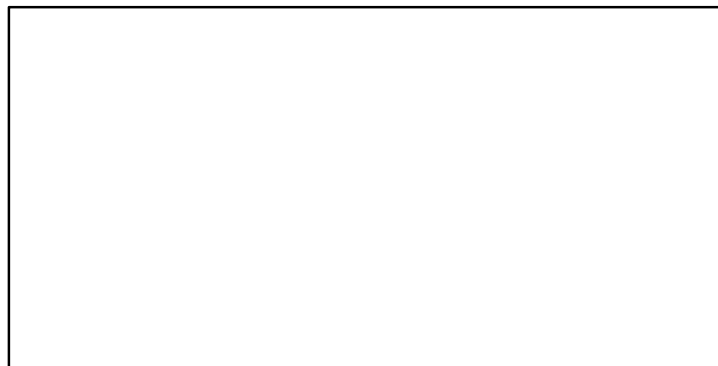
◆ Start Year ◆ End Year \* No Data

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

TB\*



SSB\*



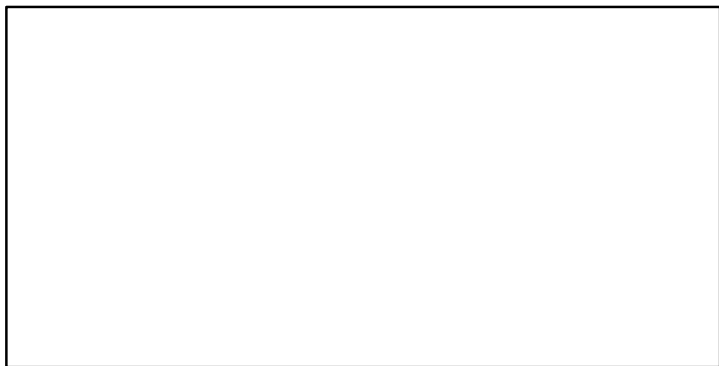
TN \*



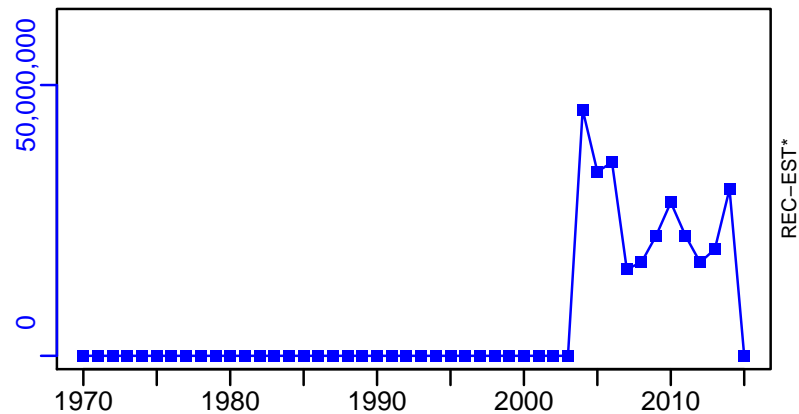
F\*



ER\*



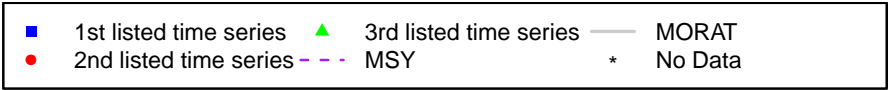
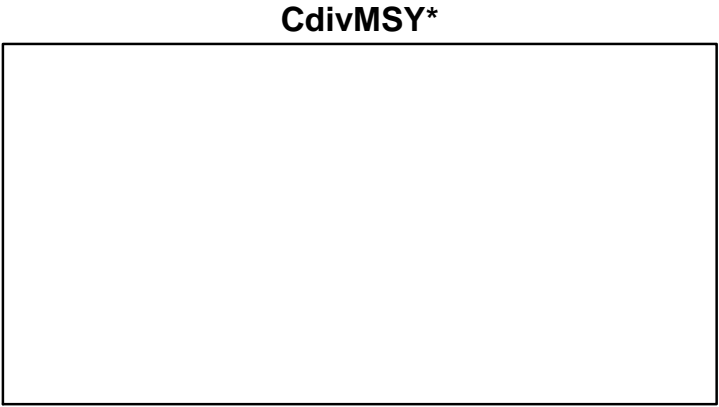
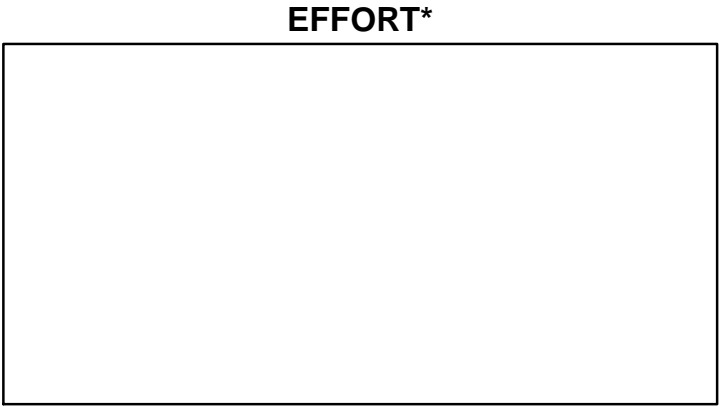
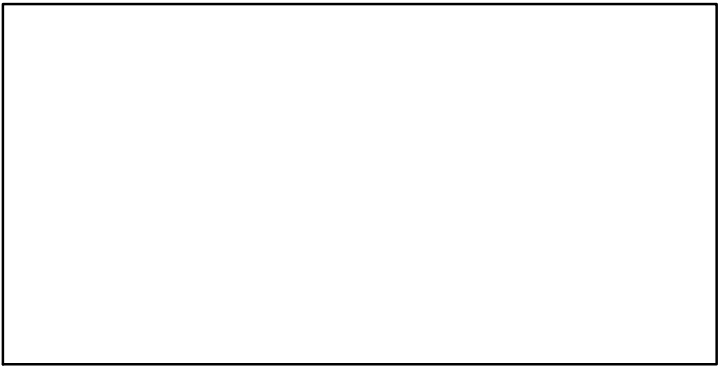
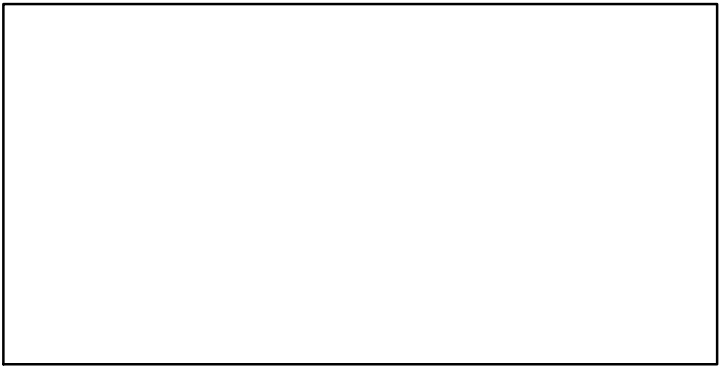
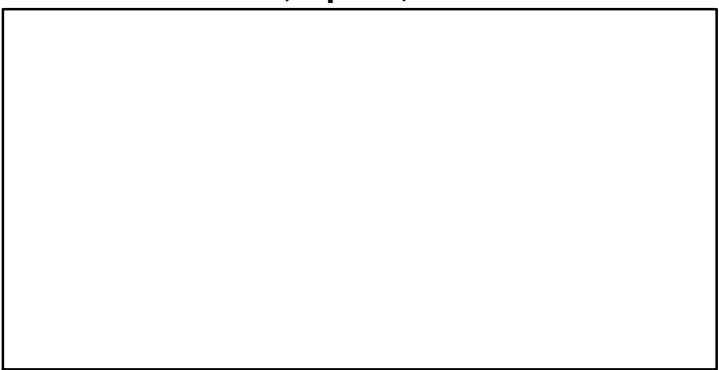
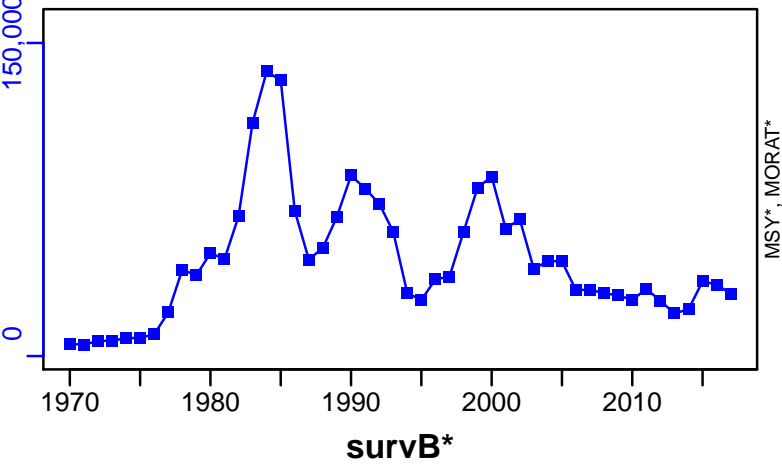
R-E00 (1970–2015–ICESIMP2018)



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

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

TAC\*, Cpair\*, Cadv\*



## Pollock Faroe Plateau [POLLFAPL]

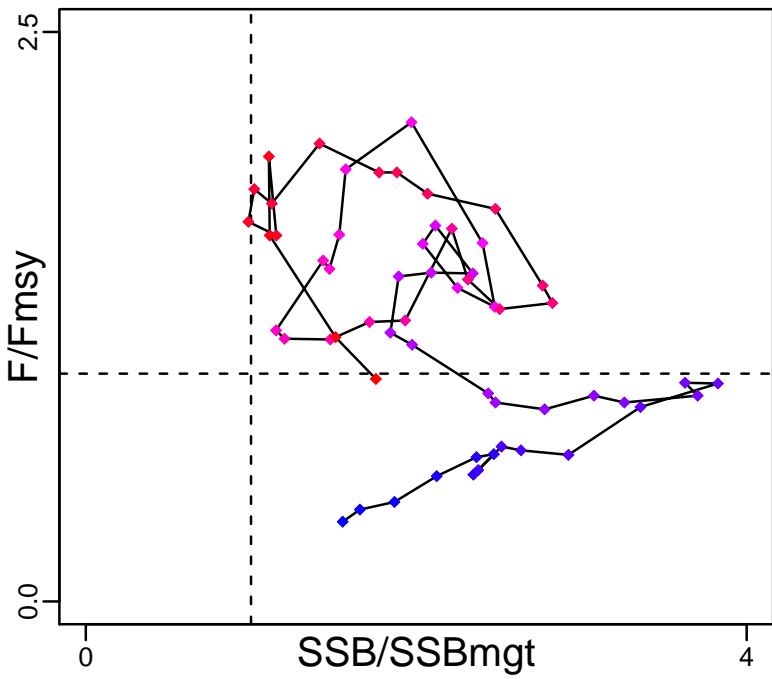
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLFAPL-1958-2019-ICESIMP2021
<b>Area</b>	Faroe Plateau
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	250,124
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	Fmsy-1/yr	2019	0.3
<b>ERmsy</b>	ERmsy-est-ratio	2019	0.057
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	41,400
<b>Fmgt</b>	Fmgt-1/yr	2019	0.3
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	43,140
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	29,571
<b>Flim</b>	Flim-1/yr	2018	0.7
<b>ERlim</b>	-	-	-

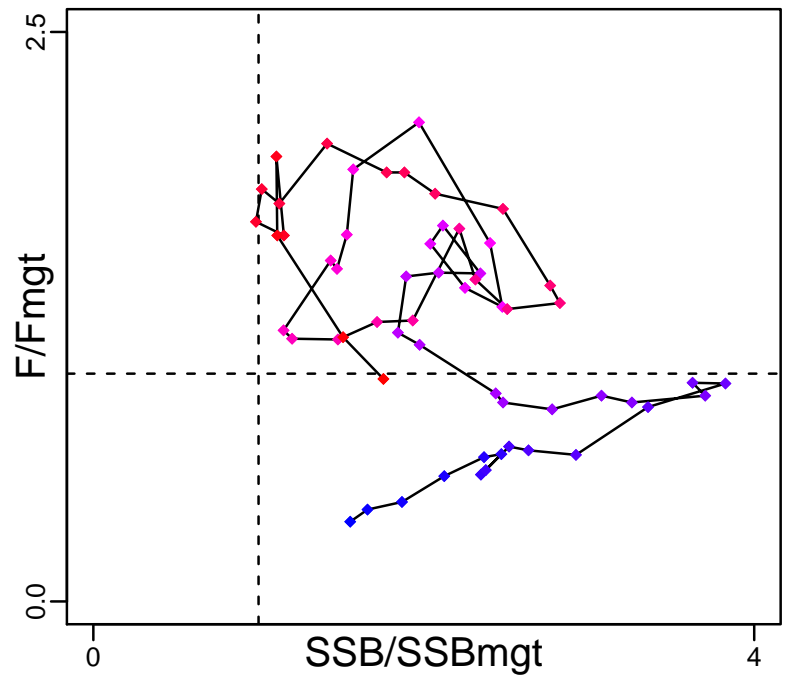
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	194,602	-	-
<b>SSB</b>	SSB-MT	2019	84,441	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	58,814	-	3
<b>F</b>	F-1/yr	2019	0.293	-	4 to 8
<b>ER</b>	ER-calc-ratio	2019	0.159	-	-
<b>TC</b>	TC-MT	2019	24,119		
<b>TL</b>	TL-MT	2019	24,119		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.756		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	F-1/yr/Fmsy-1/yr	2019	0.977		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2019	2.778		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	2.04		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	0.977		
<b>ER/ERmgt</b>	-	-	-		

# Pollock Faroe Plateau [POLLFAPL]

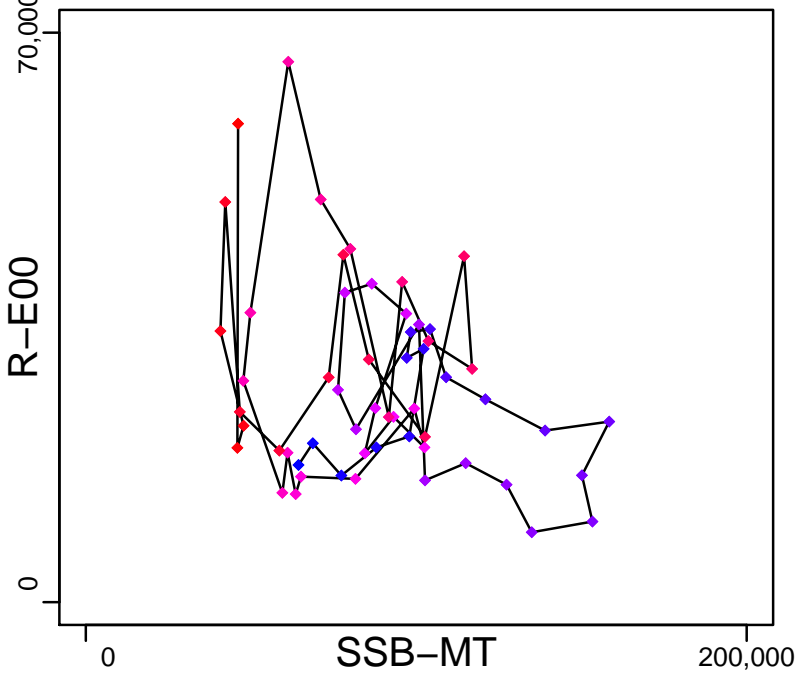
Kobe MSYpref (1958–2019–ICESIMP2021)



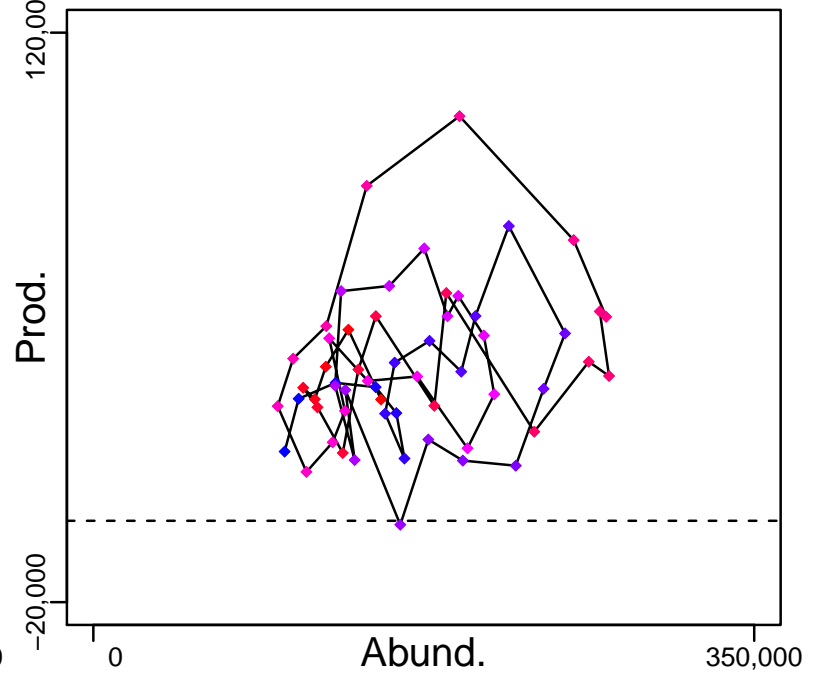
Kobe MGTpref (1958–2019–ICESIMP2021)



Spawner Recruit (1958–2019–ICESIMP2021)



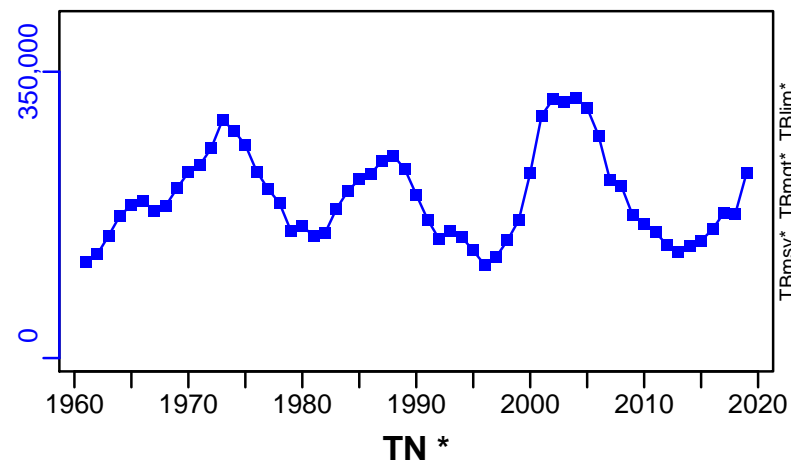
Production (1958–2019–ICESIMP2021)



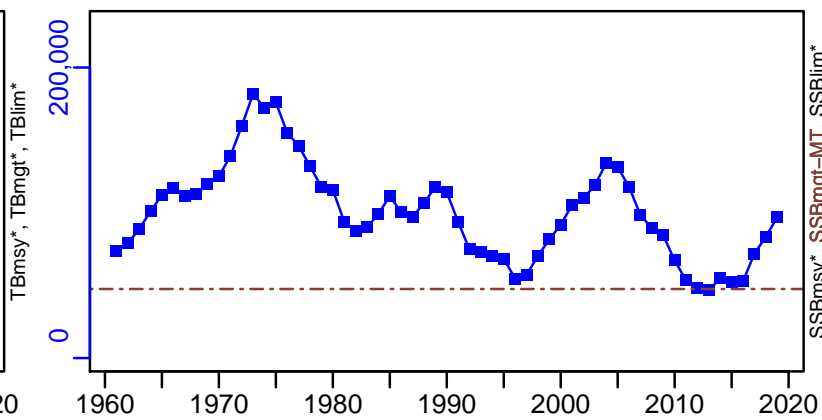
◆ Start Year ◆ End Year \* No Data

# Pollock Faroe Plateau [POLLFAPL]

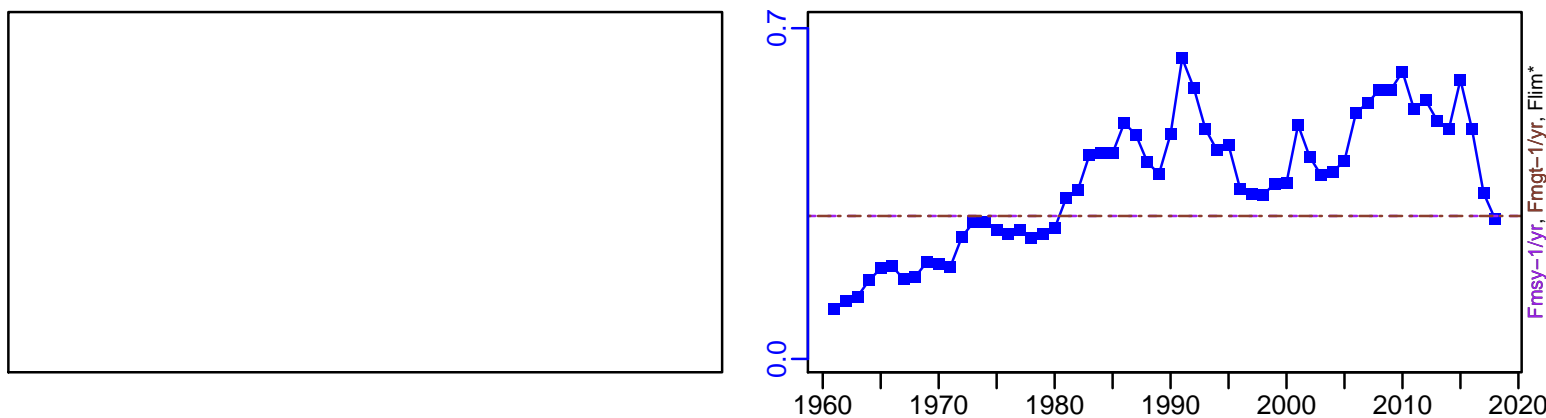
TB-MT (1958–2019–ICESIMP2021)



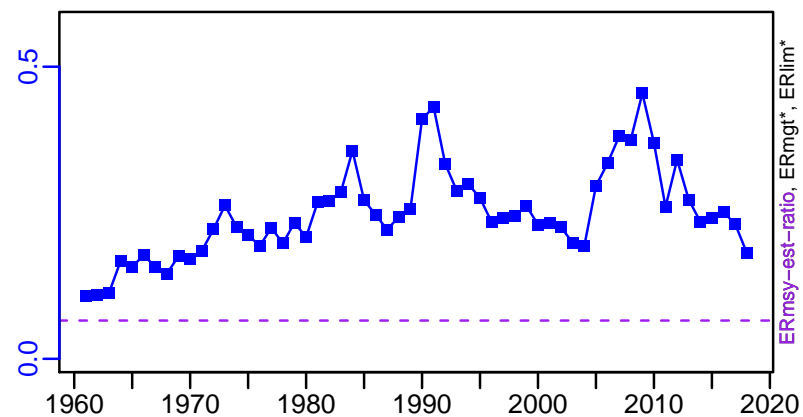
SSB-MT (1958–2019–ICESIMP2021)



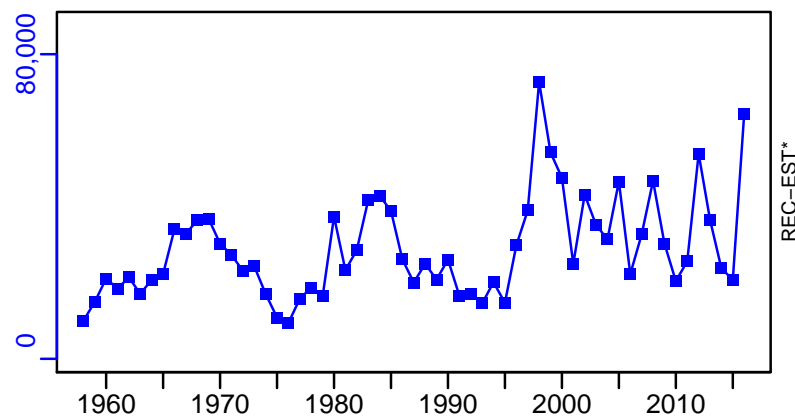
F-1/yr (1958–2019–ICESIMP2021)



ER-calc-ratio (1958–2019–ICESIMP2021)



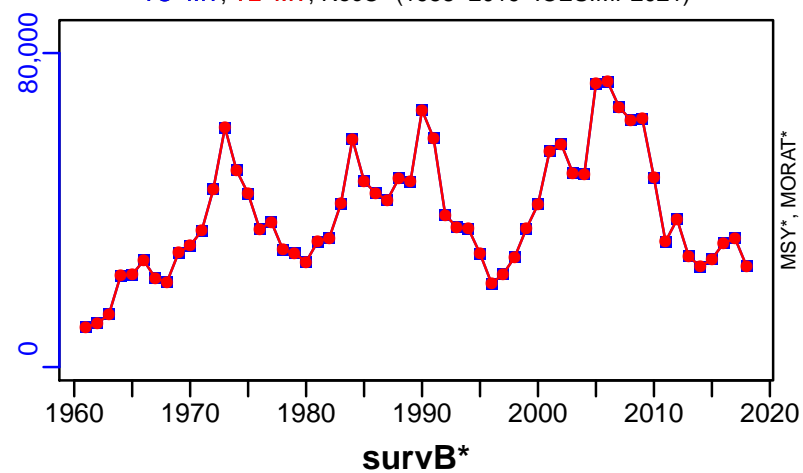
R-E00 (1958–2019–ICESIMP2021)





# Pollock Faroe Plateau [POLLFAPL]

TC-MT, TL-MT, RecC\* (1958–2019–ICESIMP2021)



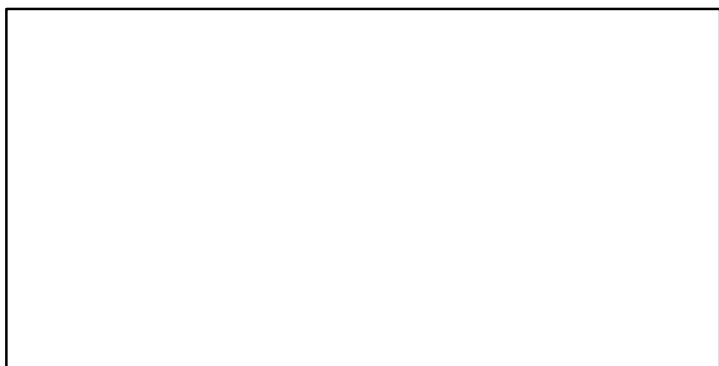
TAC\*, Cpair\*, Cadv\*



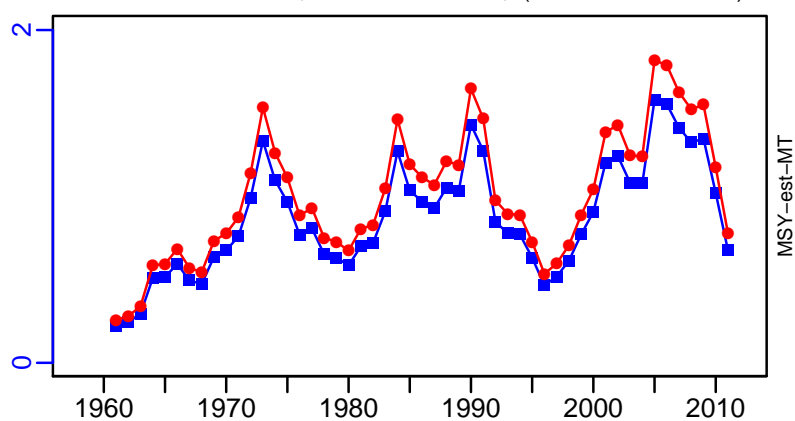
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1958–2012–CHING)



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

## Pollock Iceland Grounds [POLLIEG]

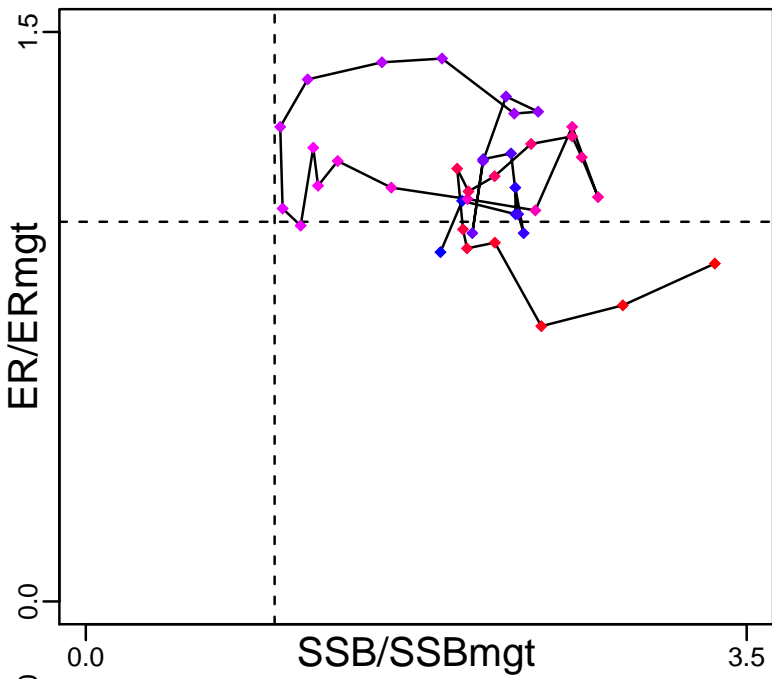
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	NWWG-POLLIEG-1977-2019-ICESIMP2021
<b>Area</b>	Iceland Grounds
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	346,307
<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	2018	44,000
<b>Flim</b>	Flim-1/yr	2018	0.46
<b>ERlim</b>	-	-	-

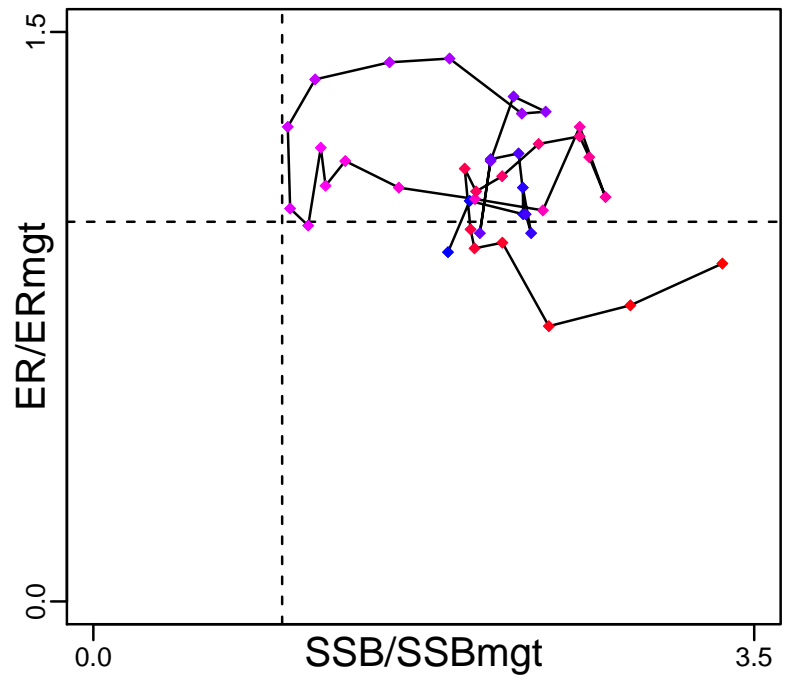
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2017	306,000	Both	-
<b>SSB</b>	SSB-MT	2019	224,932	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	65,713,000	-	3
<b>F</b>	F-1/yr	2019	0.17	-	4 to 9
<b>ER</b>	ER-ratio	2019	0.178	-	-
<b>TC</b>	TC-MT	2019	65,360		
<b>TL</b>	TL-MT	2019	65,360		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	0.765		
<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>	-	-	-		

# Pollock Iceland Grounds [POLLIEG]

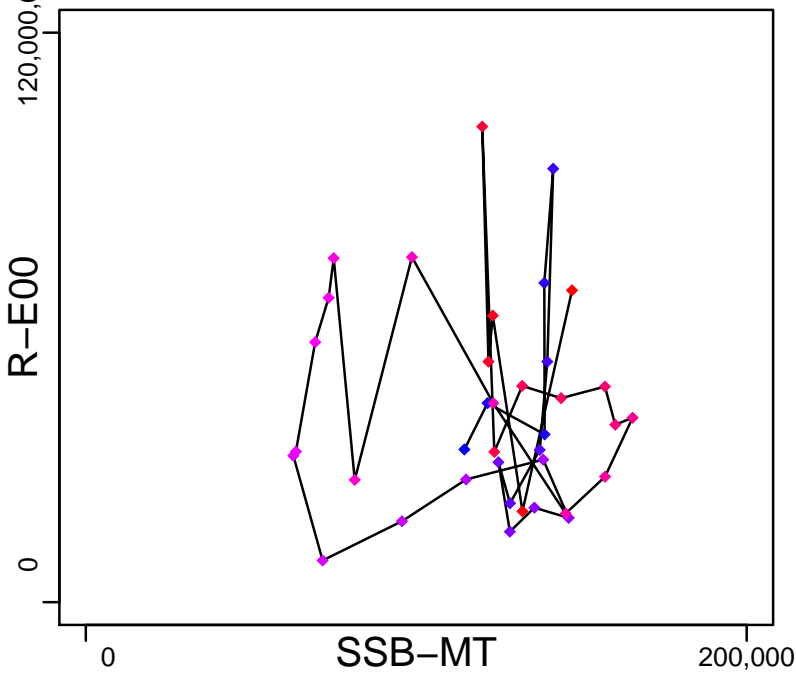
Kobe MSYpref (1977–2019–ICESIMP2021)



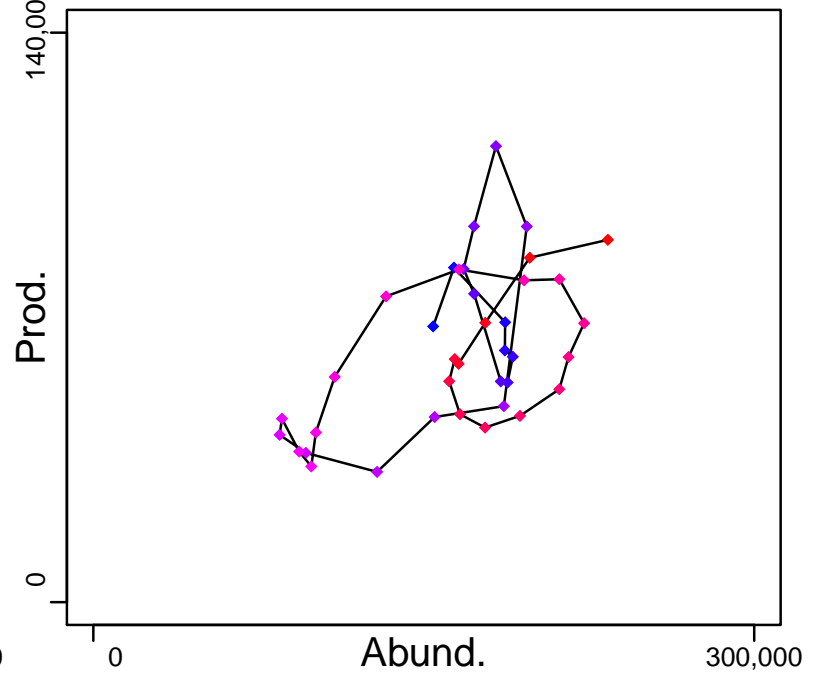
Kobe MGTpref (1977–2019–ICESIMP2021)



Spawner Recruit (1977–2019–ICESIMP2021)



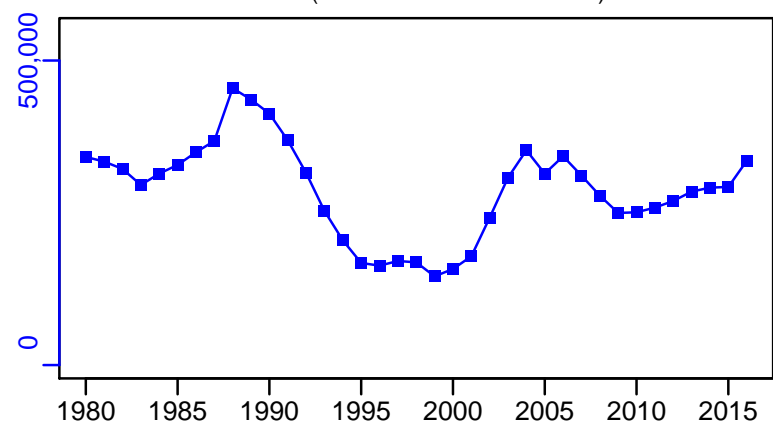
Production (1977–2019–ICESIMP2021)



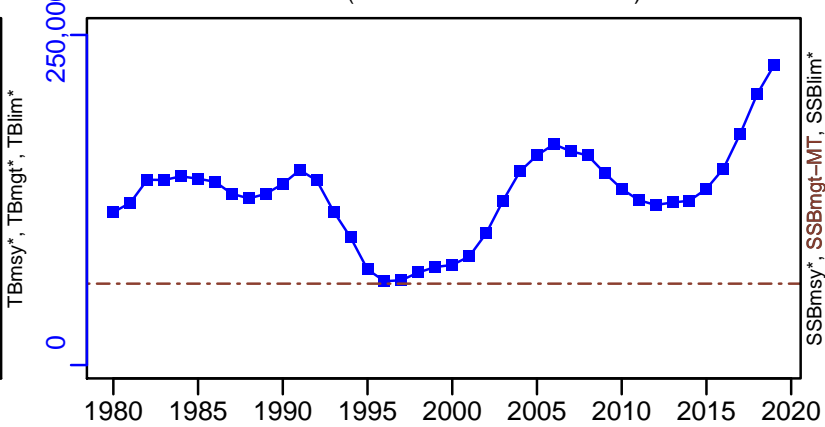
◆ Start Year ◆ End Year \* No Data

# Pollock Iceland Grounds [POLLIEG]

TB-MT (1977-2017-ICESIMP2018)



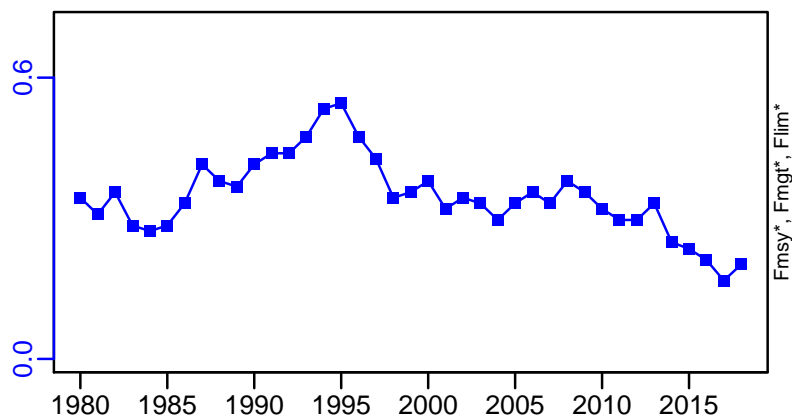
SSB-MT (1977-2019-ICESIMP2021)



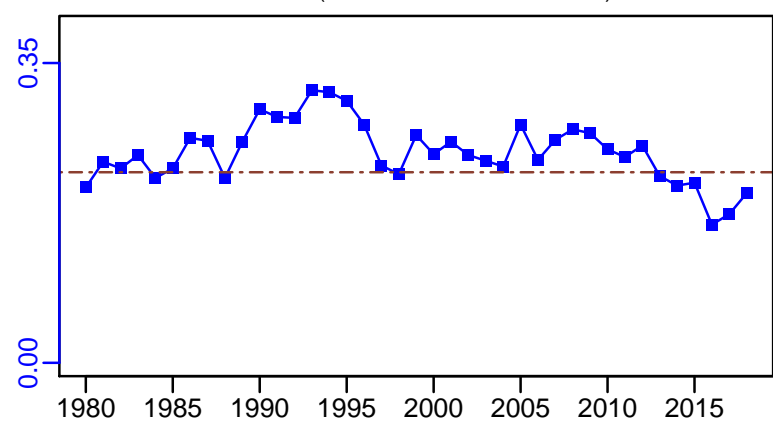
TN \*



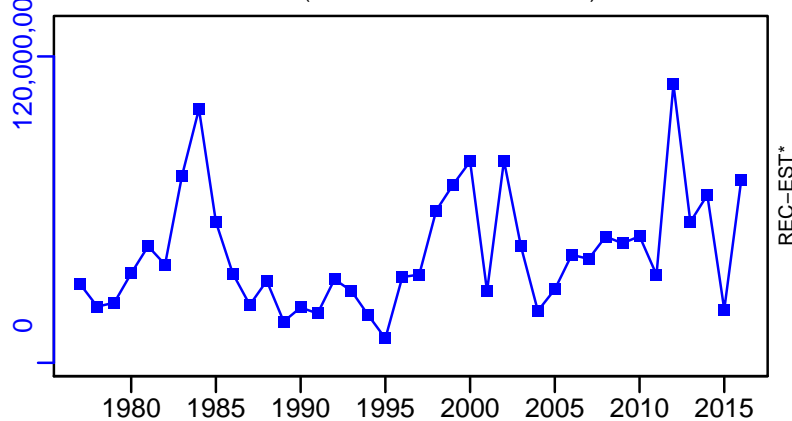
F-1/yr (1977-2019-ICESIMP2021)



ER-ratio (1977-2019-ICESIMP2021)

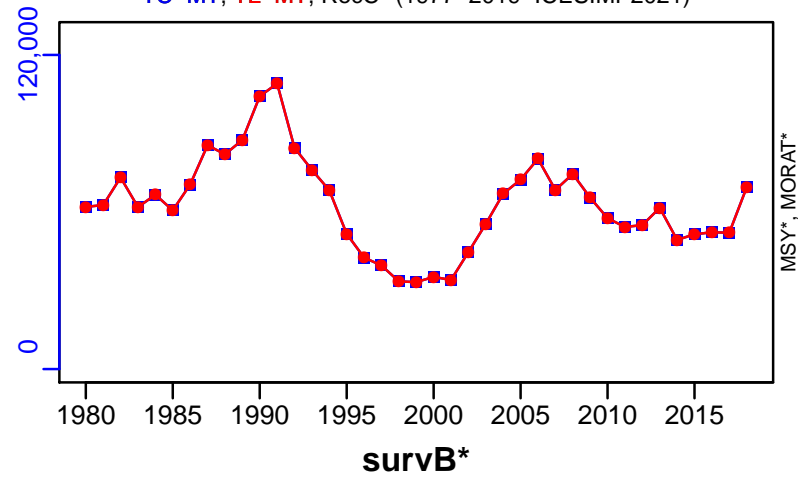


R-E00 (1977-2019-ICESIMP2021)



# Pollock Iceland Grounds [POLLIEG]

TC-MT, TL-MT, RecC\* (1977-2019-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



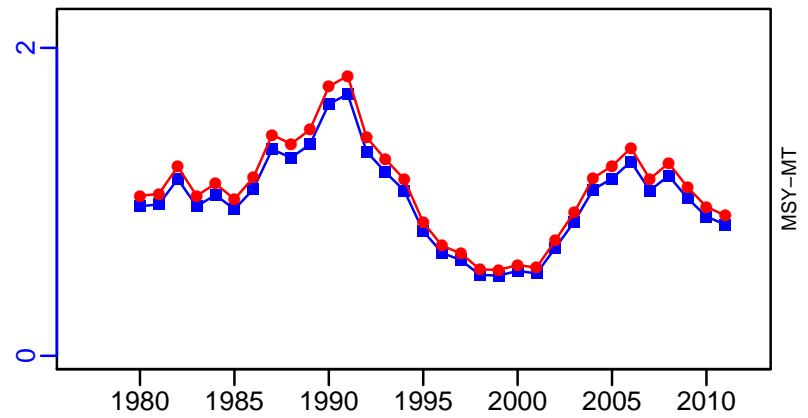
CPUE\*



EFFORT\*



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



## Pollock North-East Arctic [POLLNEAR]

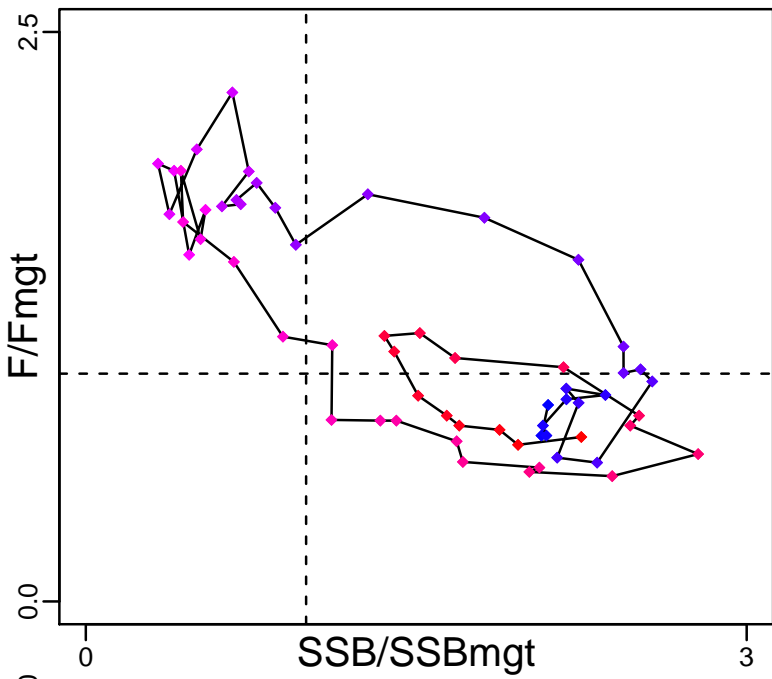
Metadata	
<b>Scientific Name</b>	Pollachius virens
<b>Current Assess ID</b>	AFWG-POLLNEAR-1957-2019-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	Arctic Fisheries Working Group
<b>Asmts in RAM</b>	2012, 2014, 2015, 2016, 2017, 2018, 2019

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2012	736,557
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2019	0.728
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2019	220,000
<b>Fmgt</b>	Fmgt-1/yr	2019	0.32
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2012	178,424
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	SSBlim-MT	2018	136,000
<b>Flim</b>	Flim-1/yr	2018	0.58
<b>ERlim</b>	-	-	-

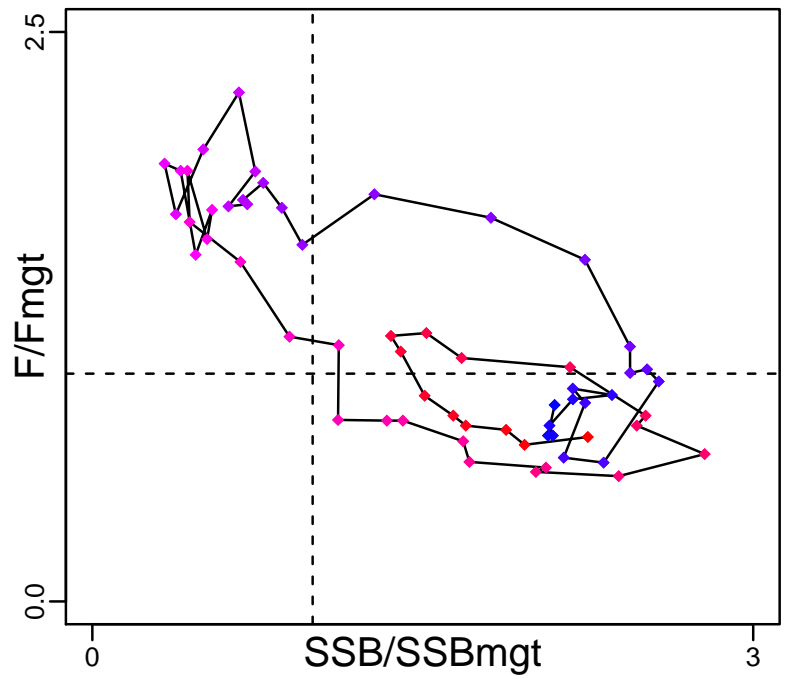
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2019	909,053	-	-
<b>SSB</b>	SSB-MT	2019	555,377	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2019	159,108,000	-	3
<b>F</b>	F-1/yr	2019	0.231	-	4 to 7
<b>ER</b>	ER-calc-ratio	2019	0.199	-	-
<b>TC</b>	TC-MT	2019	181,283		
<b>TL</b>	TL-MT	2019	181,283		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2012	1.011		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2019	0.274		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2019	2.524		
<b>F/Fmgt</b>	F-1/yr/Fmgt-1/yr	2019	0.722		
<b>ER/ERmgt</b>	-	-	-		

# Pollock North-East Arctic [POLLNEAR]

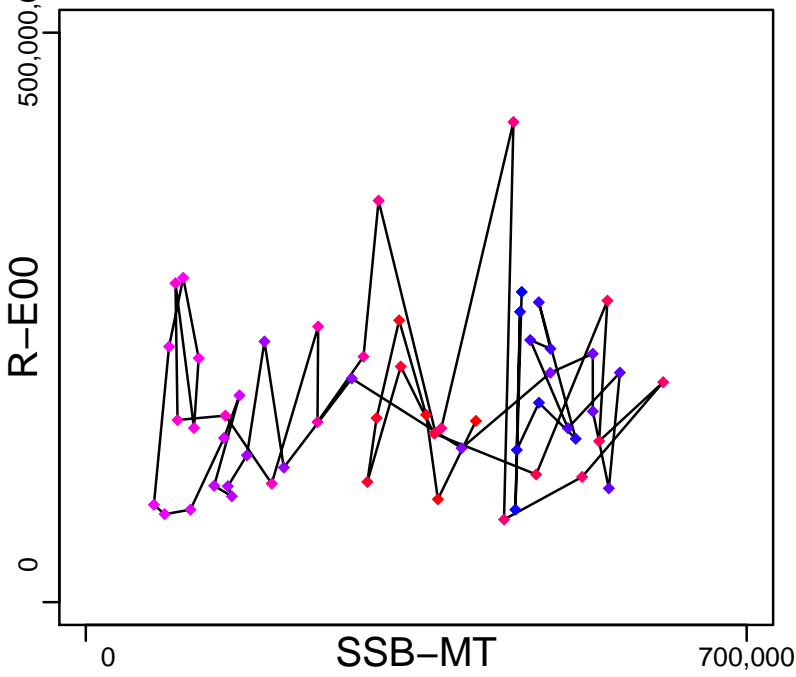
Kobe MSYpref (1957–2019–ICESIMP2021)



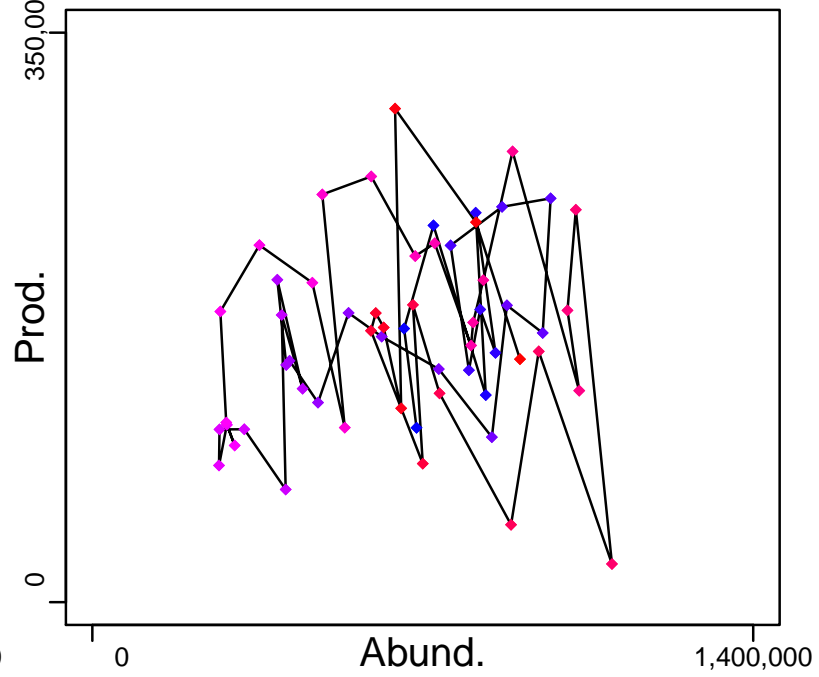
Kobe MGTpref (1957–2019–ICESIMP2021)



Spawner Recruit (1957–2019–ICESIMP2021)



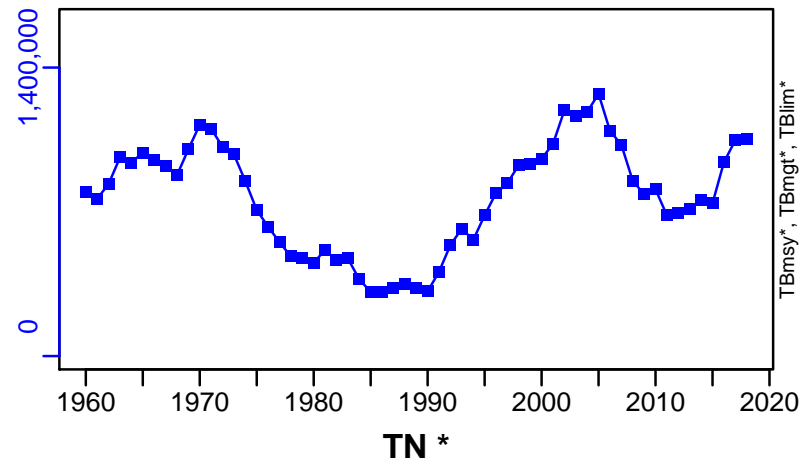
Production (1957–2019–ICESIMP2021)



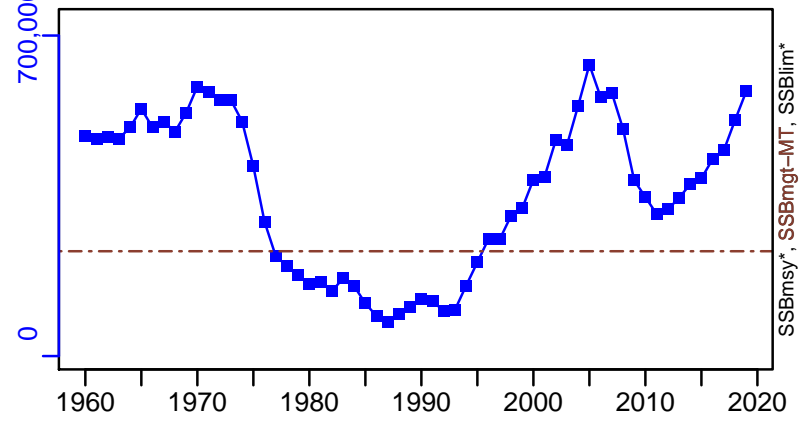
◆ Start Year ◆ End Year \* No Data

# Pollock North-East Arctic [POLLNEAR]

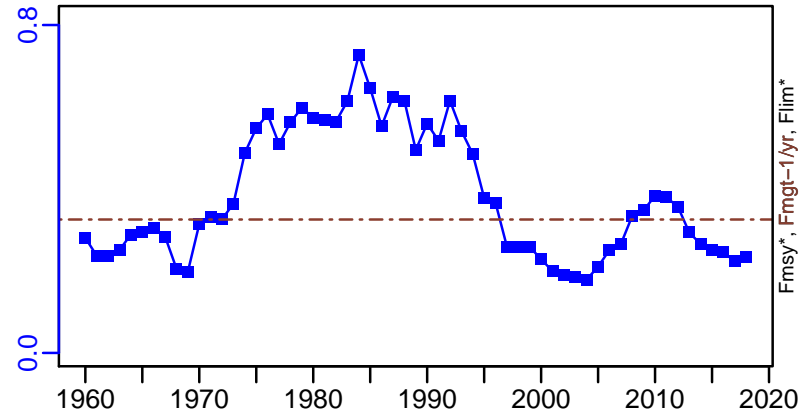
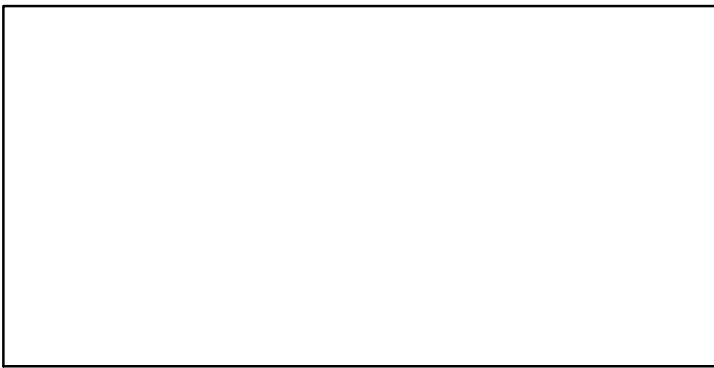
TB-MT (1957–2019–ICESIMP2021)



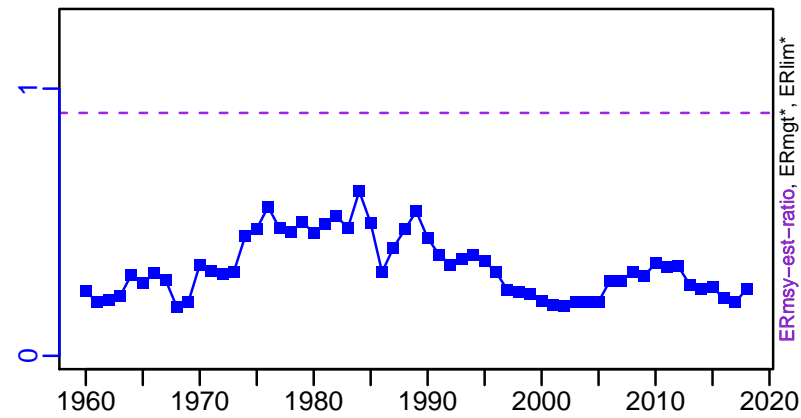
SSB-MT (1957–2019–ICESIMP2021)



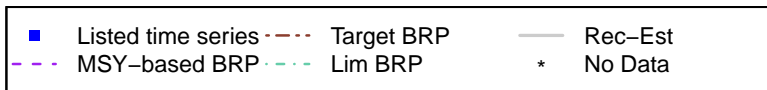
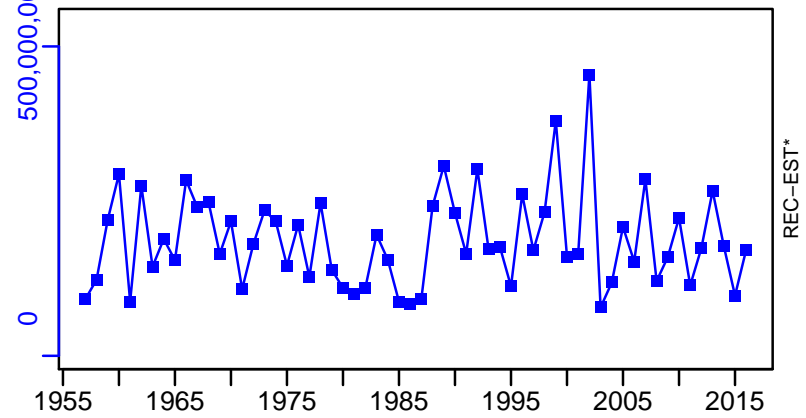
F-1/yr (1957–2019–ICESIMP2021)



ER-calc-ratio (1957–2019–ICESIMP2021)



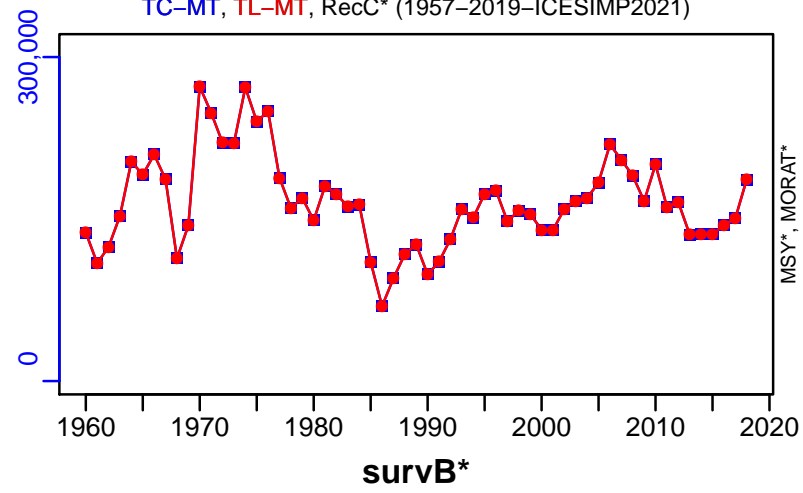
R-E00 (1957–2019–ICESIMP2021)





# Pollock North-East Arctic [POLLNEAR]

TC-MT, TL-MT, RecC\* (1957-2019-ICESIMP2021)



TAC\*, Cpair\*, Cadv\*



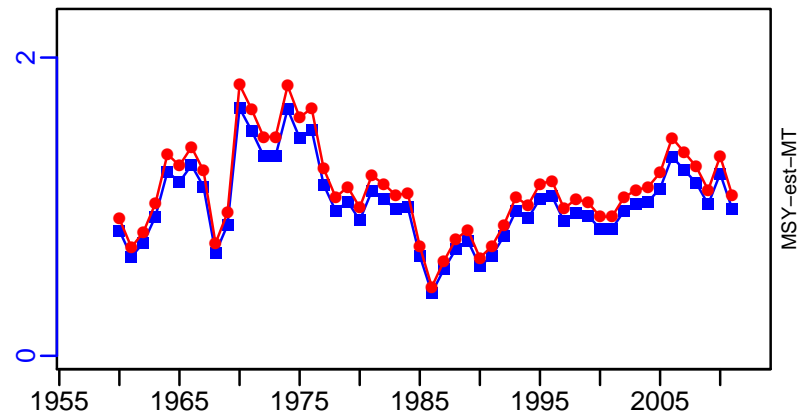
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1957-2012-CHING)



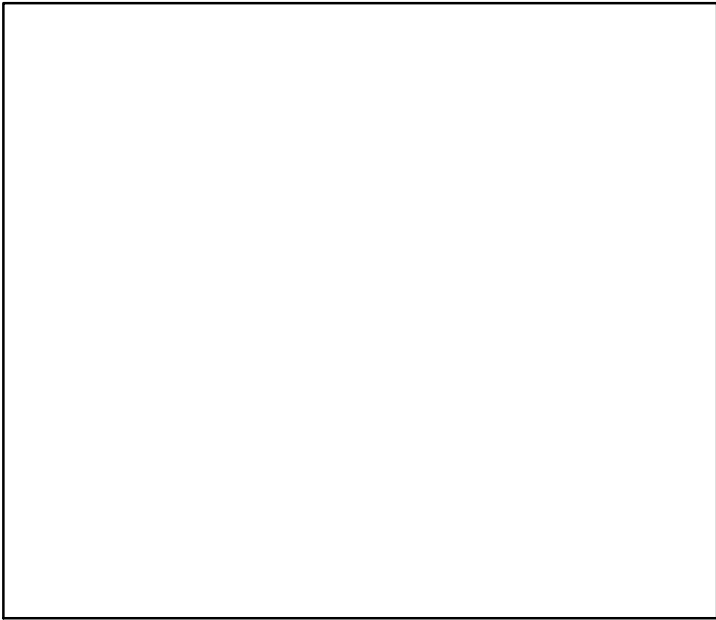
**Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (deep)**  
**[REDDEEPDP-1-2-V-XII-XIV]**

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>	-	-	-		

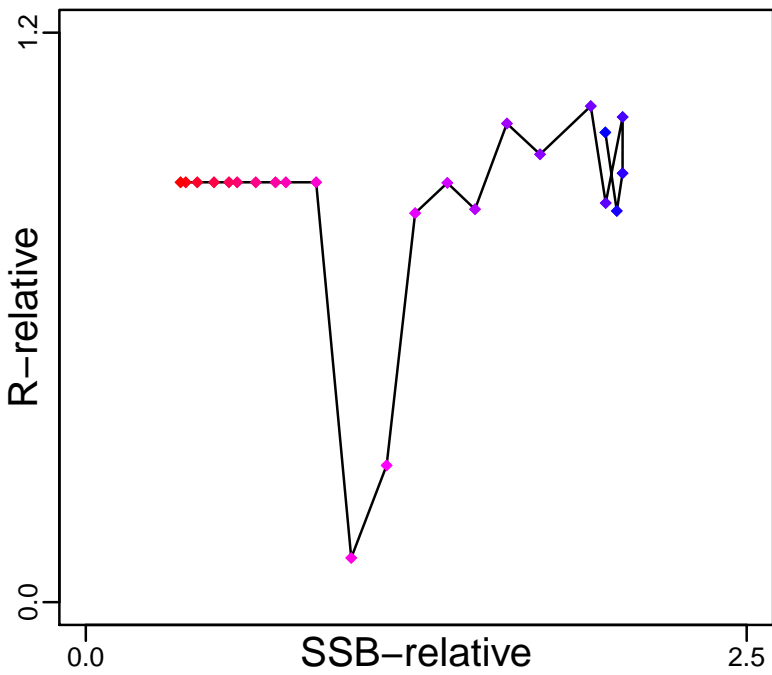
**Kobe MSY\***



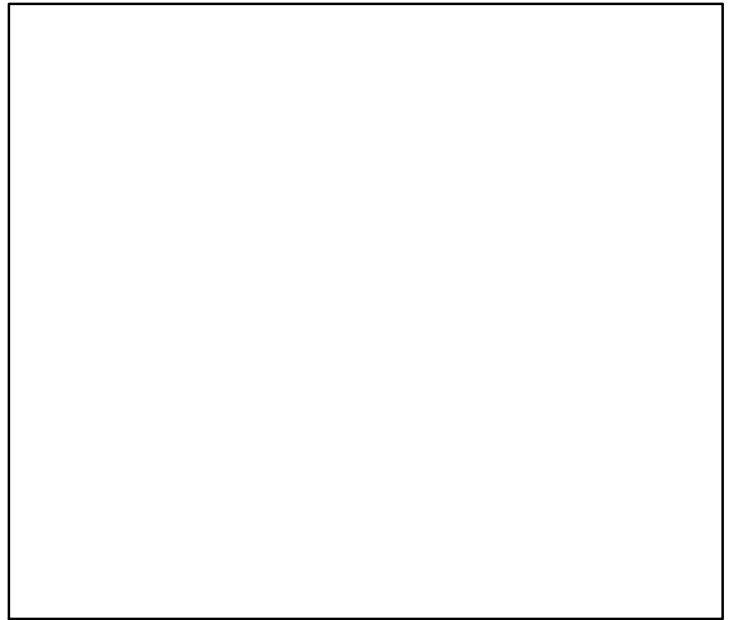
**Kobe MGT\***



Spawner Recruit (1980–2019–ICESIMP2021)



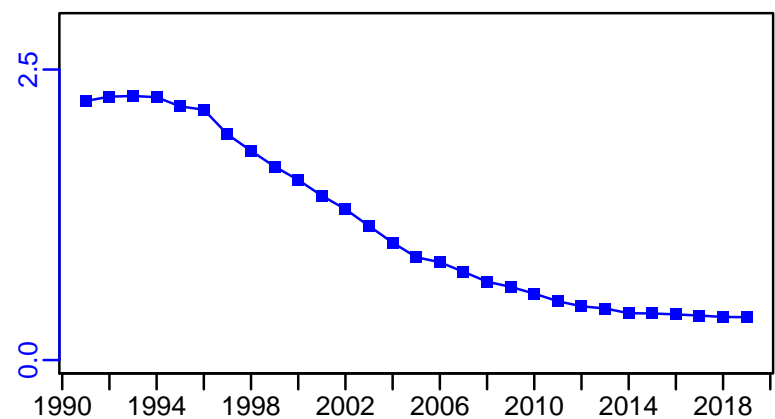
**Production\***



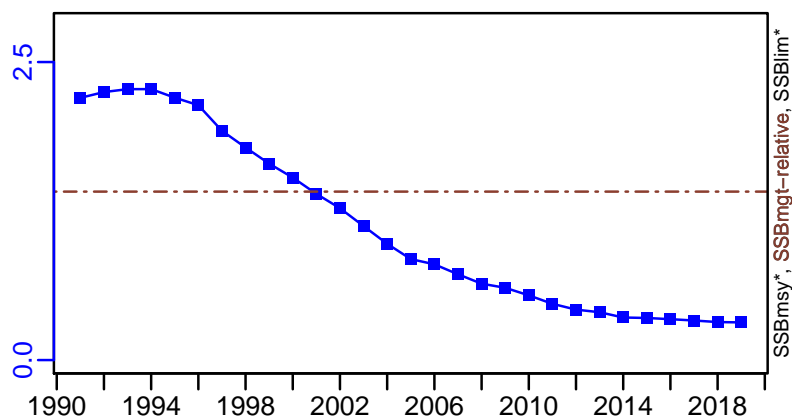
◆ Start Year ◆ End Year \* No Data

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

TB-relative (1980–2019–ICESIMP2021)



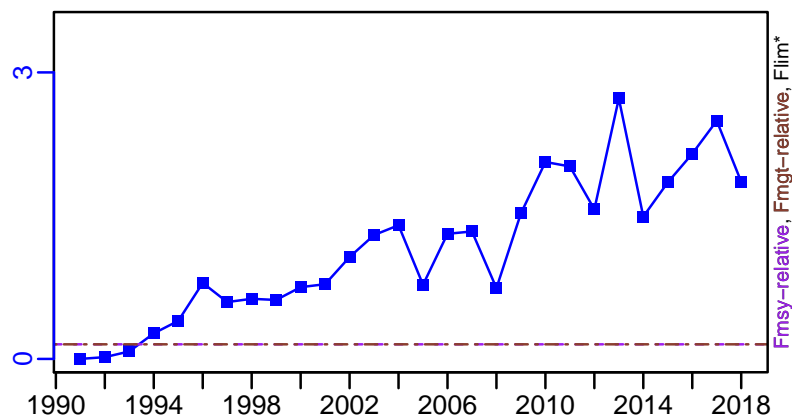
SSB-relative (1980–2019–ICESIMP2021)



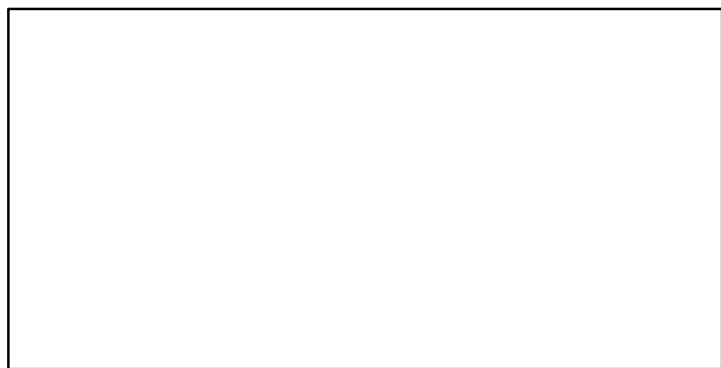
TN \*



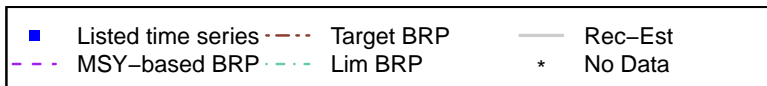
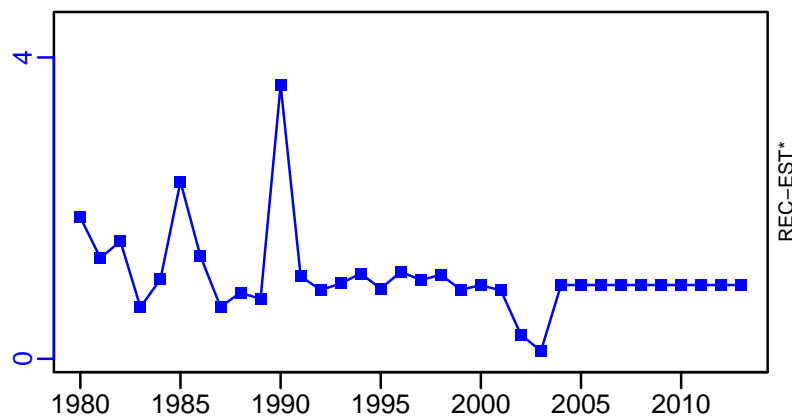
F-relative (1980–2019–ICESIMP2021)



ER\*

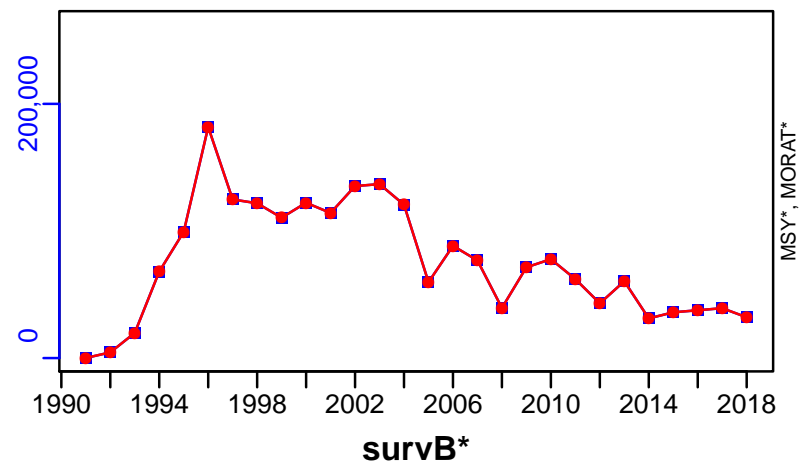


R-relative (1980–2019–ICESIMP2021)



# 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)



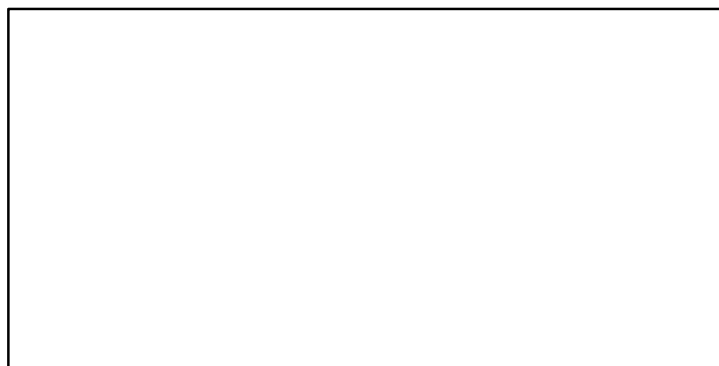
TAC\*, Cpair\*, Cadv\*



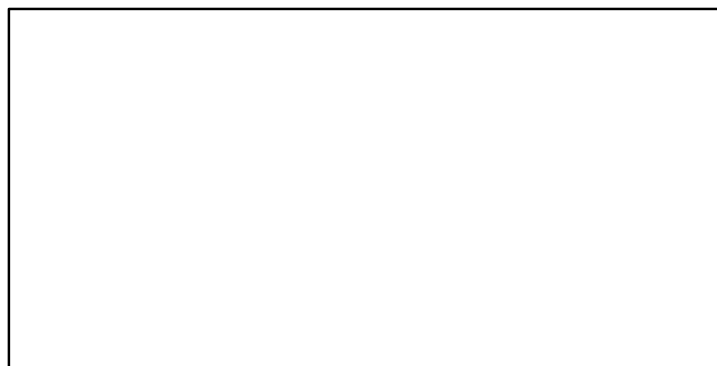
CPUE\*



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]

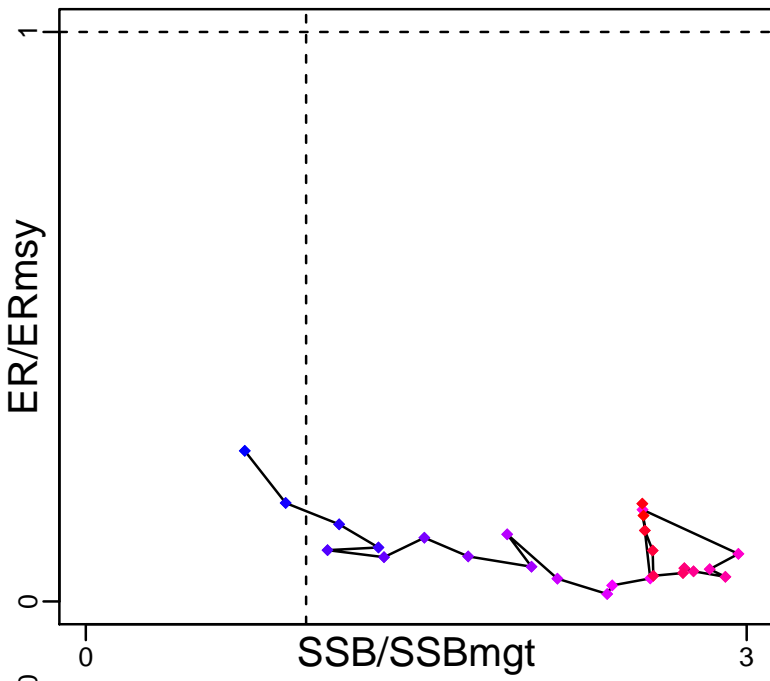
Metadata	
<b>Scientific Name</b>	Sebastes mentella
<b>Current Assess ID</b>	NWWG-REDDEEPI-II-1952-2018-ICESIMP2021
<b>Area</b>	North-East Arctic
<b>Management Authority</b>	International Council for the Exploration of the Sea
<b>Assessor</b>	North-Western Working Group
<b>Asmts in RAM</b>	2006, 2018, 2014, 2016

Reference Points			
Type	ID	Asmt Year	Value
<b>TBmsy</b>	TBmsy-est-MT	2016	581,298
<b>SSBmsy</b>	-	-	-
<b>Fmsy</b>	-	-	-
<b>ERmsy</b>	ERmsy-est-ratio	2018	0.166
<b>TBmgt</b>	-	-	-
<b>SSBmgt</b>	SSBmgt-MT	2018	315,000
<b>Fmgt</b>	-	-	-
<b>ERmgt</b>	-	-	-
<b>TB0</b>	-	-	-
<b>SSB0</b>	-	-	-
<b>MSY</b>	MSY-est-MT	2016	86,385
<b>M</b>	-	-	-
<b>TBlim</b>	-	-	-
<b>SSBlim</b>	-	-	-
<b>Flim</b>	-	-	-
<b>ERlim</b>	-	-	-

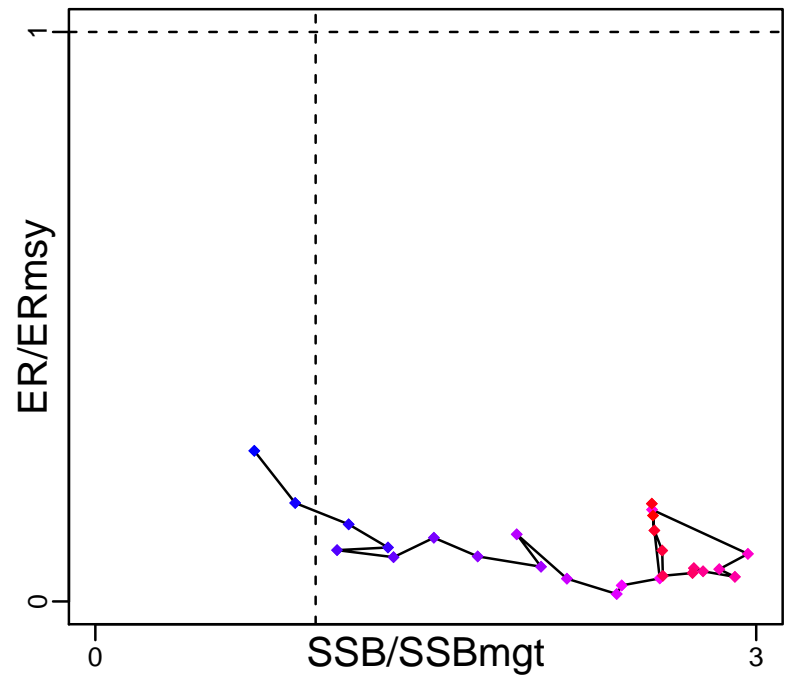
Time Series					
Type	ID	Asmt Year	Curr Value	Sex	Age
<b>TB</b>	TB-MT	2016	1,260,000	Both	-
<b>SSB</b>	SSB-MT	2018	814,285	-	-
<b>TN</b>	-	-	-	-	-
<b>R</b>	R-E00	2018	266,341,000	-	2
<b>F</b>	F-1/yr	2018	0.039	-	19+
<b>ER</b>	ER-calc-ratio	2018	0.025	-	-
<b>TC</b>	TC-MT	2018	31,201		
<b>TL</b>	TL-MT	2018	31,201		
<b>TB/TBmsy</b>	TB-MT/TBmsy-est-MT	2016	2.168		
<b>SSB/SSBmsy</b>	-	-	-		
<b>F/Fmsy</b>	-	-	-		
<b>ER/ERmsy</b>	ER-calc-ratio/ERmsy-est-ratio	2018	0.151		
<b>TB/TBmgt</b>	-	-	-		
<b>SSB/SSBmgt</b>	SSB-MT/SSBmgt-MT	2018	2.585		
<b>F/Fmgt</b>	-	-	-		
<b>ER/ERmgt</b>	-	-	-		

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

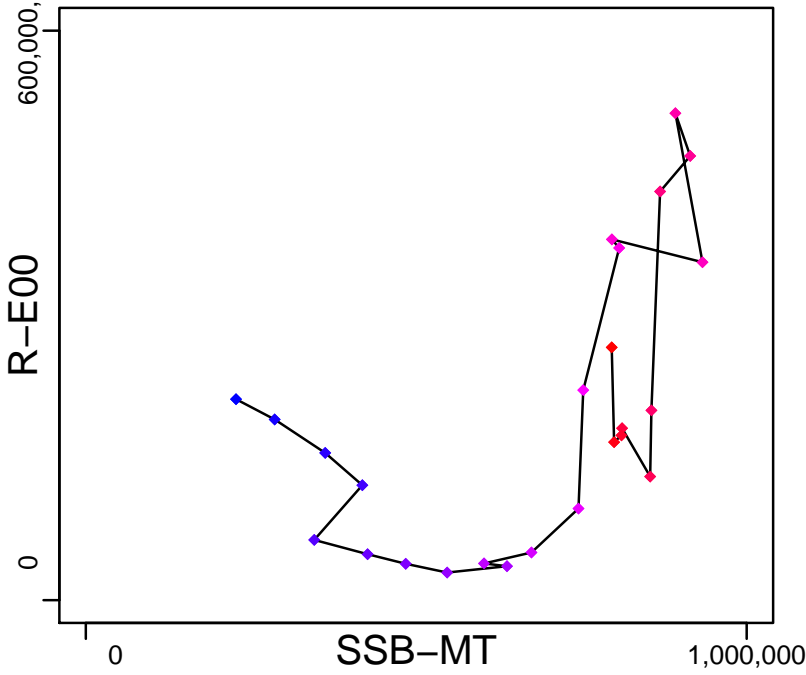
Kobe MSYpref (1952–2018–ICESIMP2021)



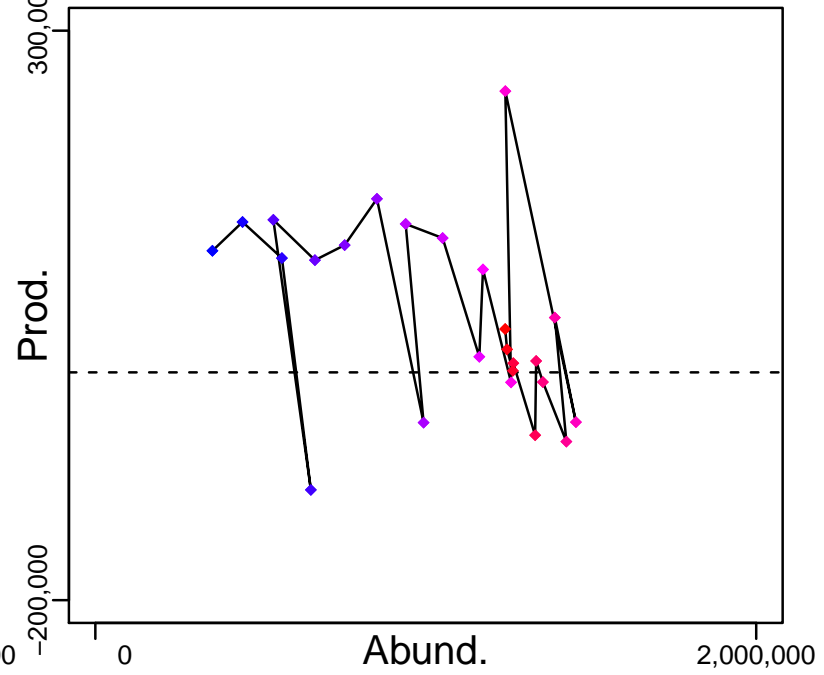
Kobe MGTpref (1952–2018–ICESIMP2021)



Spawner Recruit (1952–2018–ICESIMP2021)



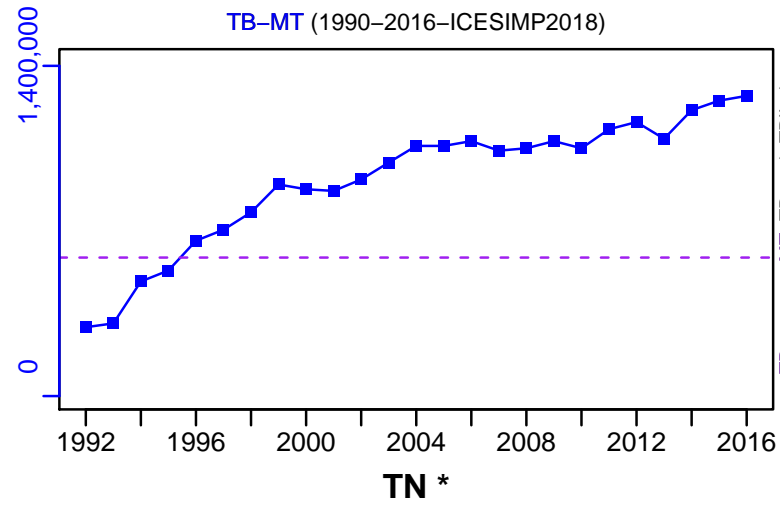
Production (1952–2018–ICESIMP2021)



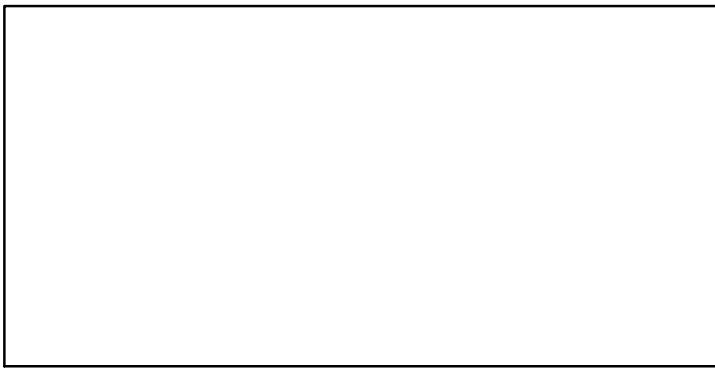
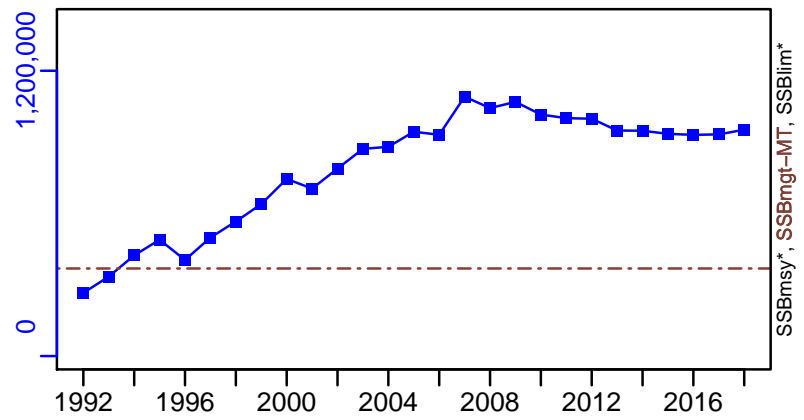
◆ Start Year ◆ End Year \* No Data

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

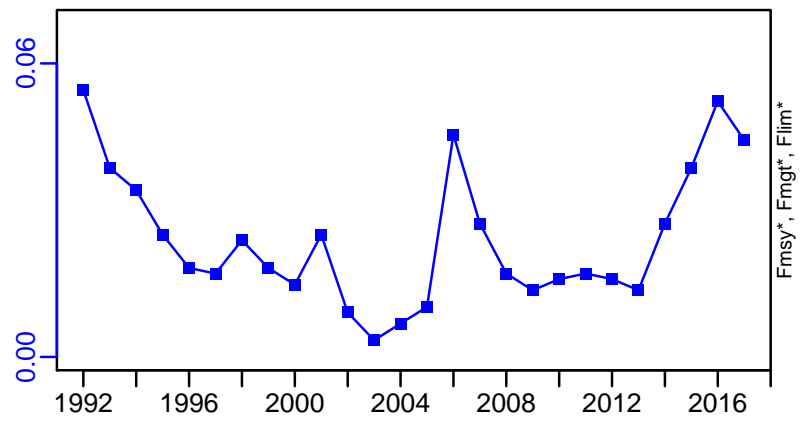
TB-MT (1990–2016–ICESIMP2018)



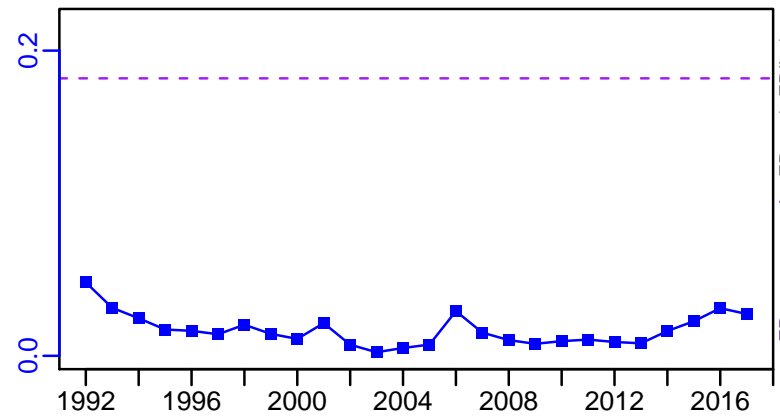
SSB-MT (1952–2018–ICESIMP2021)



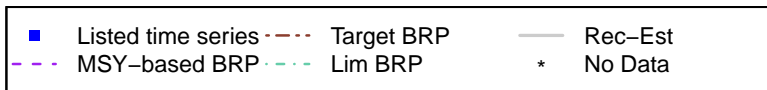
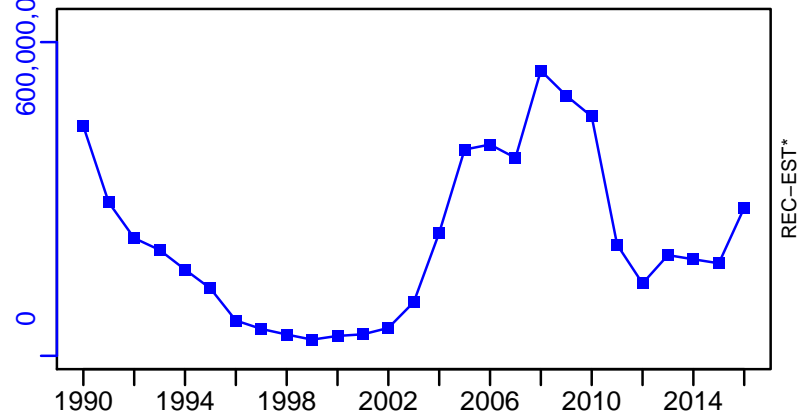
F-1/yr (1952–2018–ICESIMP2021)



ER-calc-ratio (1952–2018–ICESIMP2021)



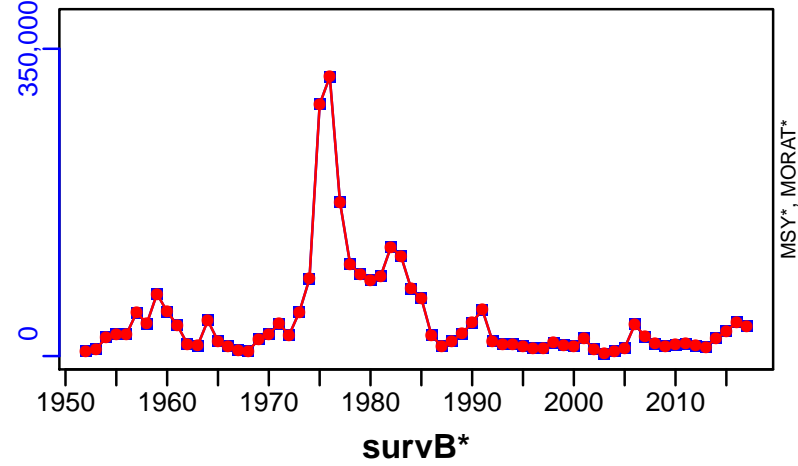
R-E00 (1952–2018–ICESIMP2021)





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

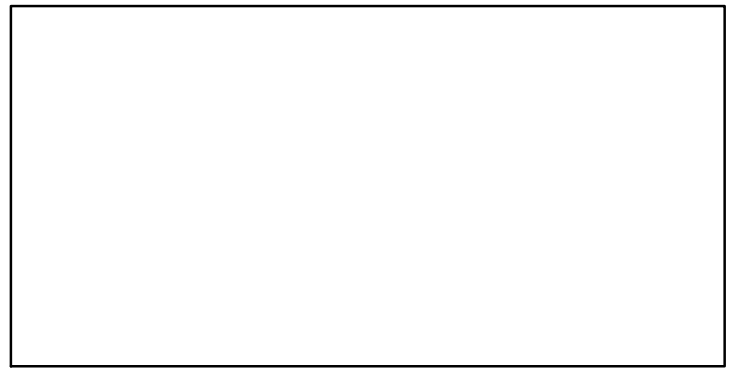
TC-MT, TL-MT, RecC\* (1952-2018-ICESIMP2021)



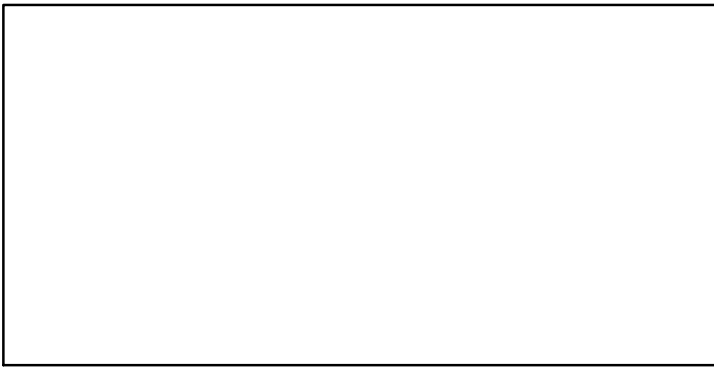
TAC\*, Cpair\*, Cadv\*



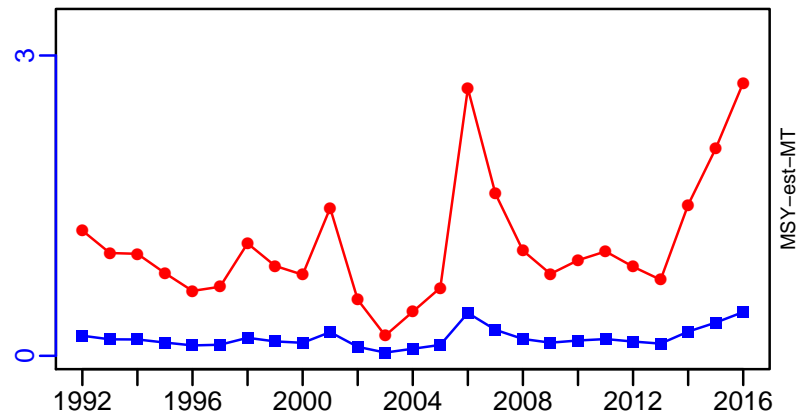
CPUE\*



EFFORT\*



TL-MT/MSY-est-MT, CdivMEANC-ratio, (1990-2016-ICESIMP2018)



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

**Beaked redfish ICES 5-12-14 and NAFO Subareas 1-2 (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\***

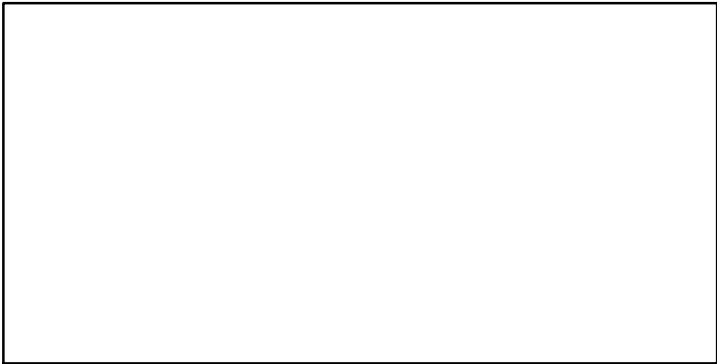


**Production\***

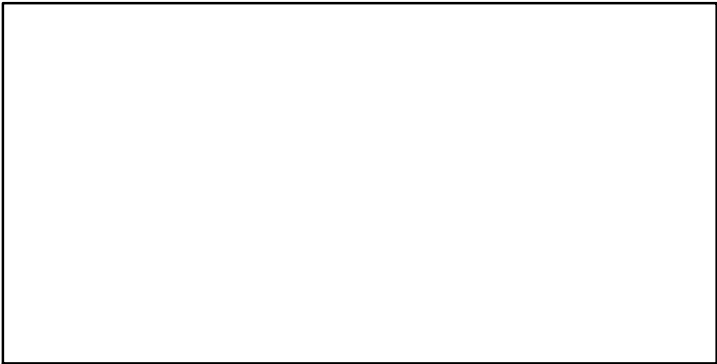


◆ Start Year   ◆ End Year   \* No Data

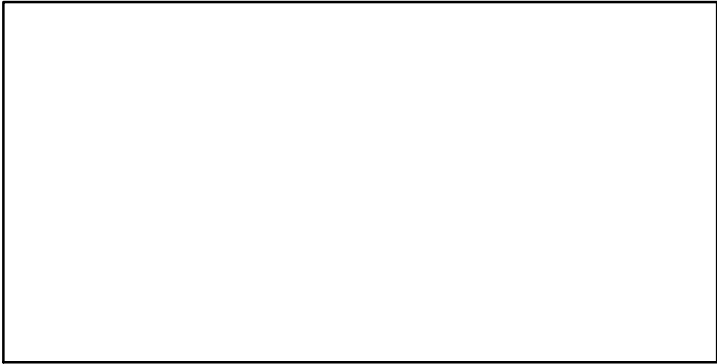
**TB\***



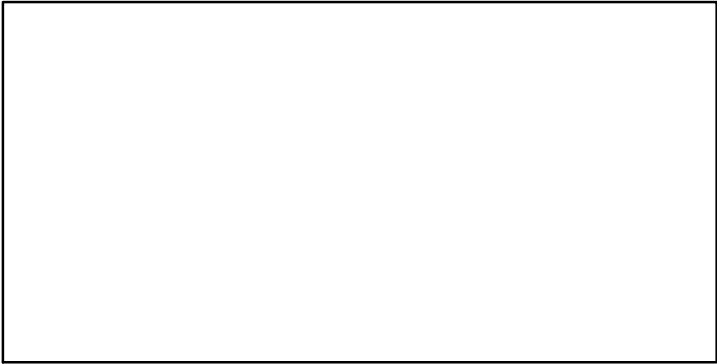
**SSB\***



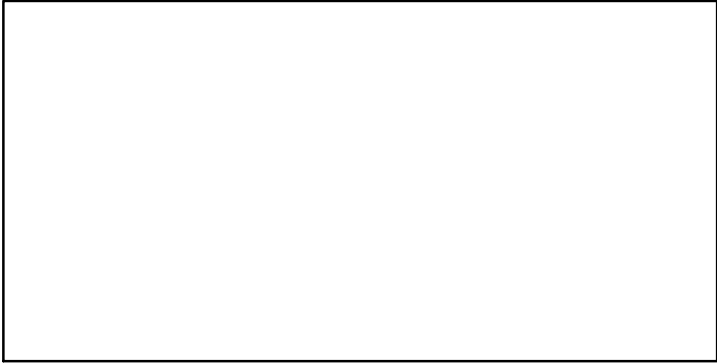
**TN \***



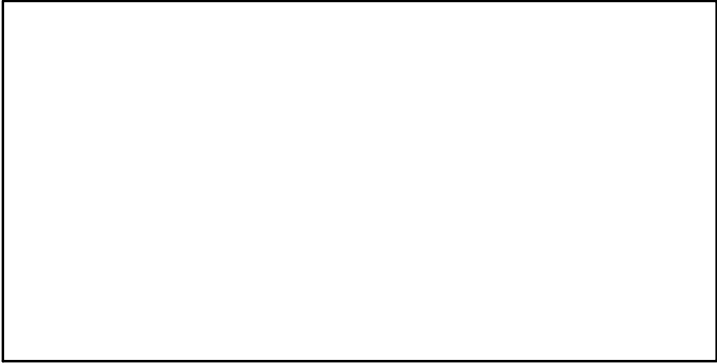
**F\***



**ER\***

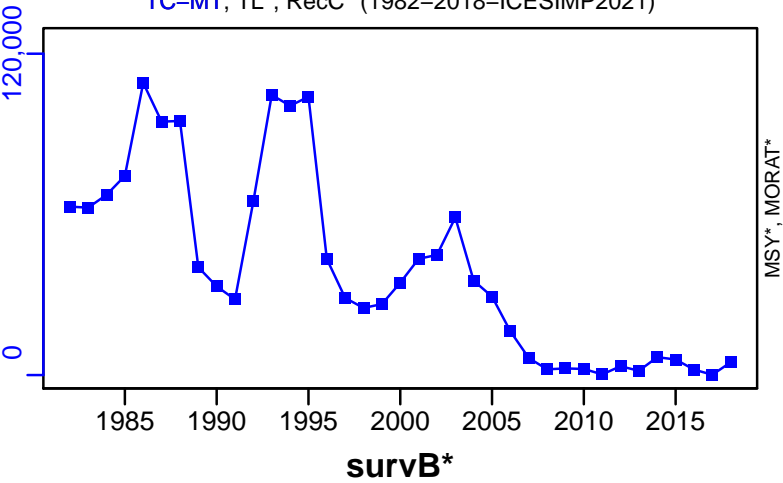


**Recruits\***



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\*



CPUE\*



EFFORT\*



CdivMSY\*



### 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\***



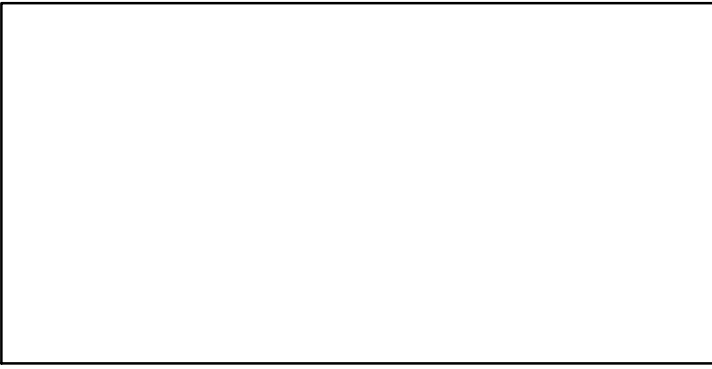
**Production\***



◆ Start Year   ◆ End Year   \* No Data

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

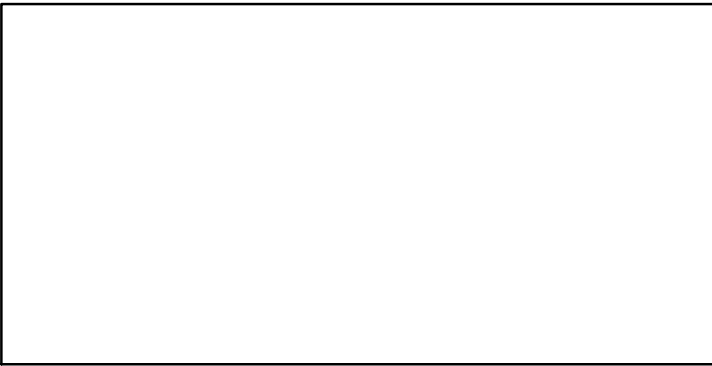
**TB\***



**SSB\***



**TN \***



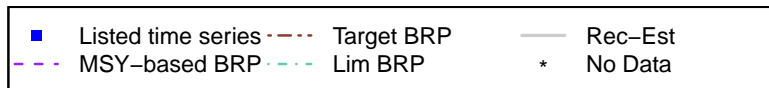
**F\***



**ER\***



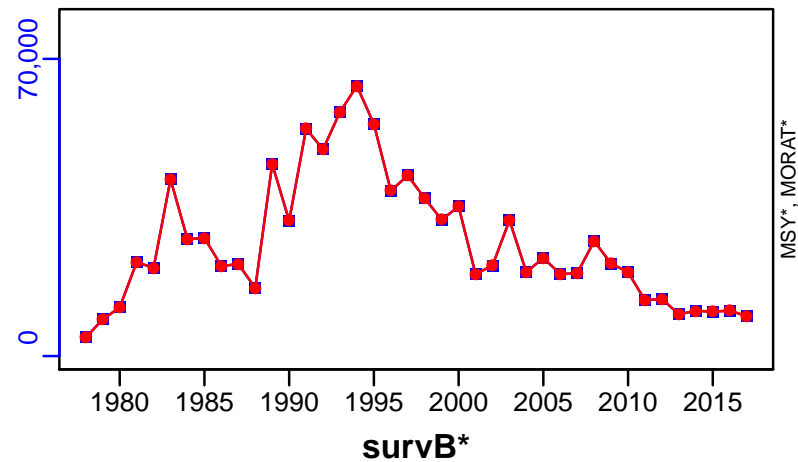
**Recruits\***





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

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



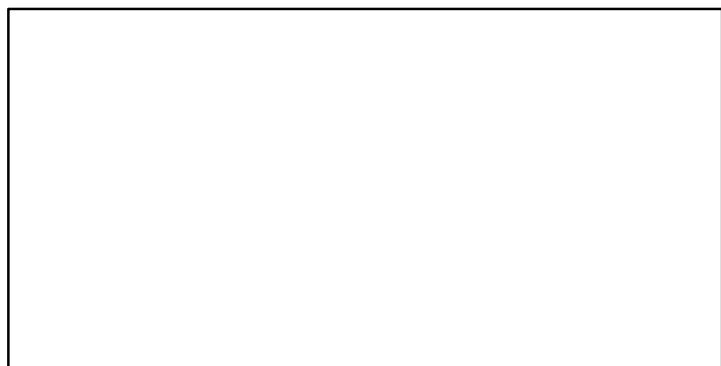
TAC\*, Cpair\*, Cadv\*



CPUE\*



EFFORT\*



CdivMSY\*

