

Tusk (*Brosme brosme*) in Subarea 12, excluding Division 12.b (Southern Mid-Atlantic Ridge)

ICES stock advice

ICES advises that when the precautionary approach is applied, there should be zero catches in each of the years from 2020 to 2024.

Stock development over time

The only available information is landing statistics, with sporadic very low catches showing no trend. There have been no reported catches for this stock since 2012.

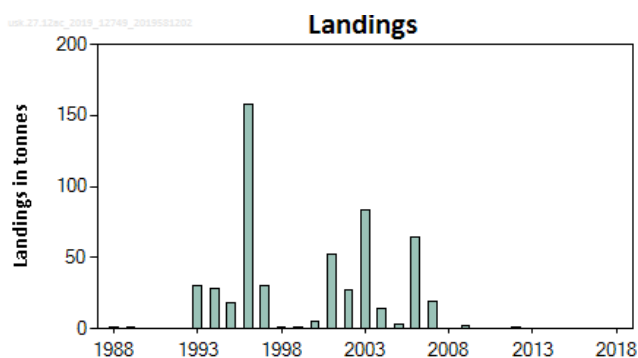


Figure 1 Tusk in Subarea 12, excluding Division 12.b. Landings in Subdivision 12.a.1. Data from 2018 (0 tonnes) are preliminary.

Stock and exploitation status

ICES cannot assess the stock and exploitation status relative to MSY and PA reference points because the reference points are undefined.

Table 1 Tusk in Subarea 12, excluding Division 12.b. State of the stock and fishery relative to reference points.

		Fishing pressure			Stock size					
		2016	2017	2018	2016	2017	2018			
Maximum sustainable yield	F_{MSY}	?	?	?	Unknown	$MSY B_{trigger}$?	?	?	Unknown
Precautionary approach	F_{pa}, F_{lim}	?	?	?	Unknown	B_{pa}, B_{lim}	?	?	?	Unknown
Management plan	F_{MGT}	—	—	—	Not applicable	B_{MGT}	—	—	—	Not applicable
Qualitative evaluation	-	?	?	?	Unknown	-	?	?	?	Unknown

Catch scenarios

The ICES framework for category 6 stocks was applied (ICES, 2012). For this stock, current catches are zero and available new data do not change the perception of this stock. Therefore, ICES advises that when the precautionary approach is applied, catches should not be increased unless there is evidence that this is sustainable.

Because of the low exploitation level, the advice is given for five years.

Basis of the advice

Table 2 Tusk in Subarea 12, excluding Division 12.b. The basis of the advice.

The basis for the advice	Precautionary approach.
Management plan	ICES is not aware of any agreed management plan for this stock in this area.

Quality of the assessment

Catches from this area have been small. There is no data available to conduct a scientific assessment of the stock.

Issues relevant for the advice †

This stock is classified as Category 2 in the [NEAFC categorization of deep-sea species/stocks](#) which implies that NEAFC requires measures stipulating that directed fisheries are not authorised and that bycatches should be minimised.

The advice is for zero catches because of missing or non-representative data.

Based on the review of stock distribution (ICES, 2007), tusk in Subdivision 14.b.1 are considered to be part of the same stock as tusk in Subarea 12, excluding Division 12.b.

Reference points

No reference points are defined for this stock.

Basis of the assessment

Table 3 Tusk in Subarea 12, excluding Division 12.b. The basis of the assessment and advice.

ICES stock data category	6 (ICES, 2018).
Assessment type	No assessment (ICES, 2019).
Input data	Commercial landings.
Discards and bycatch	Unknown.
Indicators	None.
Other information	None.
Working group	Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources (WGDEEP).

Information from stakeholders

There is no additional available information.

† Version 2: NEAFC categorisation of deep-sea stocks added to section.

History of advice, catch, and management

Table 4 Tusk in Subarea 12, excluding Division 12.b. History of ICES advice and ICES estimates of landings. Weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	ICES landings
2009	Fisheries should not be allowed to expand	-	2
2010	No new advice, same as for 2009	-	0
2011	Fisheries should not be allowed to expand and measures should be considered to limit occasional high levels of bycatch	-	0
2012	No new advice, same as 2011	-	1
2013	No increase in catches, and measures should be taken to limit occasional high levels of bycatch	-	0
2014	No new advice, same as 2013	-	0
2015	No new advice, same as 2013	-	0
2016	No increase in catches, and measures should be taken to limit occasional high levels of bycatch	-	0
2017	Same advice as in 2016	-	0
2018	Precautionary approach	0	0
2019	Precautionary approach (Same catch advice as in 2018)	0	
2020	Precautionary approach	0	
2021	Precautionary approach (Same catch advice as in 2020)	0	
2022	Precautionary approach (Same catch advice as in 2020)	0	
2023	Precautionary approach (Same catch advice as in 2020)	0	
2024	Precautionary approach (Same catch advice as in 2020)	0	

History of catch and landings

Table 5 Tusk in Subarea 12, excluding Division 12.b. Catch distribution by fleet in 2018 as estimated by ICES.

Total catch	Commercial landings	Commercial discards
Unknown	0 tonnes	Unknown

Table 6 Tusk in Subarea 12, excluding Division 12.b. History of official landings by country in tonnes.

Year	Faroese	France	Iceland	Norway	Scotland	Russia	Total
1988		1					1
1989		1					1
1990		0					0
1991							0
1992							0
1993	29	1	+				30
1994	27	1	+				28
1995	12	-	10				18
1996	7	-	9	142			158
1997	11	-	+	19			30
1998				-			1
1999				+	1		1
2000				5	+		5
2001		1		51	+		52
2002				27			27
2003				83			83
2004		2		7		5	14
2005	2	1					3

Year	Faroes	France	Iceland	Norway	Scotland	Russia	Total
2006						64	64
2007						19	19
2008						0	0
2009						2	2
2010							0
2011							0
2012	1						1
2013							0
2014							0
2015							0
2016							0
2017							0
2018*							0

* Preliminary.

Summary of the assessment

There is no assessment for the species in this area.

Sources and references

ICES. 2007. Report of the Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources (WGDEEP), 8–15 May 2007, ICES Headquarters, Copenhagen, Denmark. ICES CM 2007/ACFM:20. 478 pp.

ICES. 2012. ICES Implementation of Advice for Data-limited Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM:68. 42 pp.

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ICES. 2019. Working Group on the Biology and Assessment of Deep-sea Fisheries Resources (WGDEEP). ICES Scientific Reports. 1:21. 988 pp. <http://doi.org/10.17895/ices.pub.5262>

Recommended citation: ICES. 2019. Tusk (*Brosme brosme*) in Subarea 12, excluding Division 12.b (southern Mid-Atlantic Ridge). In Report of the ICES Advisory Committee, 2019. ICES Advice 2019, usk.27.12ac, <https://doi.org/10.17895/ices.advice.4822>