

Roundnose grenadier (*Coryphaenoides rupestris*) in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2 (Northeast Atlantic and Arctic Ocean)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, landings should be no more than 131 tonnes in each of the years from 2020 to 2023. ICES cannot quantify the corresponding catches.

Stock development over time

Landings for this widely-distributed stock are small, with no trend in the last ten years.

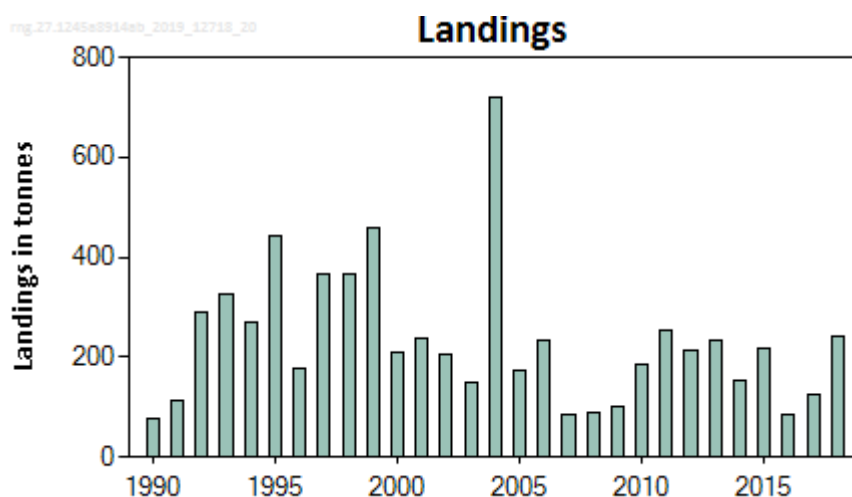


Figure 1 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. Total landings (updated with landings from Greenland).

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 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. 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). Previous advice was based on landings that did not include those from Greenland; consequently, the basis for the advice was revised based on average updated landings from the last five years. For stocks without information on abundance or exploitation, ICES considers that a precautionary

reduction of catches should be implemented unless there is ancillary information clearly indicating that the current level of exploitation is appropriate for the stock. Consequently, the precautionary buffer was applied.

Since no change in the fisheries is expected in the coming years, advice is given for four years.

Table 2 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. The basis for the catch scenarios.

Average landings (2014–2018)		164 tonnes
Discard rate		Unknown
Precautionary buffer	Applied	0.8
Landings advice *		131 tonnes
% Advice change **		+102%

* [Average landings] x [precautionary buffer].

** Advice value for 2020 relative to advice value for 2019.

The catch advice increased because landings data have been revised and the advice is based on recent average landings this year.

Basis of the advice

Table 3 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. The basis of the advice.

Advice basis	Precautionary approach.
Management plan	ICES is not aware of any agreed precautionary management plan for roundnose grenadier in this area.

Quality of the assessment

The available information is inadequate to evaluate stock status or trends. Historical landings by Greenland were revised in 2019.

Landings data may be overreported due to species misidentification (potential confusion in logbooks between roughhead and roundnose grenadier in Division 14.b).

Issues relevant for the advice †

This stock is classified as Category 4 in the [NEAFC categorization of deep-sea species/stocks](#) which implies that fisheries are primarily restricted to Coastal State exclusive economic zones (EEZs) and therefore management measures are not taken by NEAFC unless complementary to coastal state conservation and management measures.

As this is a bycatch fishery, trends in landings may reflect changes in activity in other fisheries rather than in stock abundance.

Most landings since 2000 are from divisions 5.a.2 and 14.b.2, and have been mostly stable. Landings from other areas have been minor in recent years.

Reference points

No reference points are defined for this stock.

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

Basis of the assessment

Table 4 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. Basis of the assessment and advice.

ICES stock data category	6 (ICES, 2018).
Assessment type	No assessment (ICES, 2019).
Input data	Landings data.
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.

History of the advice, catch, and management

Table 5 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. ICES advice, TACs ^{^^}, and official landings. All weights are in tonnes (t).

Year	ICES advice	Catch corresponding to advice	TAC EU Subareas 1, 2, and 4	TAC EU Subareas 8, 9, 10, 12, and 14	ICES landings * for the stock **
2003	Fishery not allowed to expand, unless proven to be sustainable	-	20 ^{^^}	-	151
2004	Biennial	-	20 ^{^^}	-	719
2005	Fishery not allowed to expand, unless proven to be sustainable	-	20 ^{^^}	7190	173
2006	Biennial	-	20 ^{^^}	7190	233
2007	Fishery not allowed to expand, unless proven to be sustainable	-	20 ^{^^}	6114	84
2008	Biennial	-	20 ^{^^}	6114	90
2009	Fishery not allowed to expand, unless proven to be sustainable	-	17 ^{^^}	5197	102
2010	Biennial	-	17 ^{^^}	5197	186
2011	Fishery should not be allowed to expand, and a reduction in catches should be considered	-	15	4573	253
2012	No new advice, same as 2011	-	13	3979	213
2013	Fishery not allowed to expand from 120 t, unless proven to be sustainable	< 120	13	3581	232
2014	No new advice, same as 2013	< 120	13	3223	154
2015	No new advice, same as 2013	< 120	13	3644	216
2016	Precautionary approach with application of PA buffer	65	13	3279	84
2017	Biennial	65	10	2623 [^]	125
2018	Precautionary approach (same value as advised catches for 2016–2017)	≤ 65	10	2099 [^]	240
2019	Precautionary approach (same value as advised catches for 2016–2017)	≤ 65	-	2281 [^]	
2020	Precautionary approach	≤ 131	-	2281 [^]	
2021	Precautionary approach	≤ 131			
2022	Precautionary approach	≤ 131			
2023	Precautionary approach	≤ 131			

* Revised. Earlier French landings that reached 562 t were assigned to this species; however, a recent revision of the data indicates that previous landings in Subarea 4 are more likely to correspond to roughhead grenadier. Historical landings from Greenland updated in 2019.

** In Subareas 1, 2, 4, 8, and 9, Division 14.a, and Subdivisions 5.a.2 and 14.b.2.

[^] Bycatch of roughhead grenadier are counted against the quota of roundnose grenadier and may not exceed 1%.

^{^^} Includes international waters of Division 5.a.

^{^^^} There is a TAC for all species of macrourids (grenadiers) combined in east Greenland waters (since 2010 it has been 1000 t).

History of the catch and landings

There are no reported catches in the NEAFC regulatory area.

Table 6 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. Landings distribution by fleet in 2018 as estimated by ICES.

Catch (2018)	Landings		Discards
	80% trawl	20% longline	
Unknown	240 tonnes		Unknown

Table 7 Roundnose grenadier in subareas 1, 2, 4, 8, and 9, Division 14.a, and in subdivisions 14.b.2 and 5.a.2. History of commercial landings as estimated by ICES, presented by area for each country. All weights are in tonnes.

Year	Subareas 1 and 2							Subarea 4					Subdivision 5.a.2				Subareas 8 and 9			Subdivision 14.b.2								14.a	Unallocated	Total			
	Faroës	Denmark	Germany	Norway	Russia/USSR	Germany	UK (E+W)	Total	France	Germany	Norway	UK (Scot)	Denmark	Total	Faroës	Iceland**	Norway	Total	France	Spain	Total	Faroës	Germany	Greenland	Iceland	Norway	UK (E+ W)	UK (Scot)			Russia	Total	Total
1990			2		12	3		17		2				2		7		7	5		5		45	1			1			47	0		78
1991			3	28				31		4				4		48		48	1		1		23	4			2			29	0		113
1992		1		29				30				4	1	5		210		210	12		12		19	1	4	6		1		31	0		288
1993				2				2		4				4		276		276	18		18		4	18	4				26	0		326	
1994			12					12		2			25	27		210		210	5		5		10	5					15	0		269	
1995								0		1				16		398		398			0		13	14					27	0		441	
1996								0				5	7	12	1	139		140	1		1		6	19					25	0		178	
1997	1			100				101				10		10		198		198			0	6	34	10		7			57	0		366	
1998				87	13			100						0		120		120	1	19	20	1	116	3		6			126	0		366	
1999				44	2			46			5			5		129		129	9	7	16		105	138		19			262	0		458	
2000								0						0		54		54	4		4		41	107		5			153	0		211	
2001							2	2					17	17		40		40	7		7		11	80		7	2	72	172	0	208	238	
2002				11	1			12			1	26		27		60		60	3		3		25	61		15	1	1	103	0	504	205	
2003				4				4			1	11		12		57		57	2		2			70		5	1		76	0	952	151	
2004				27				27				1	371	372		181		181	2		2		27	110					137	0		719	
2005				12				12			2			2		76		76	7		7			69		6	1		76	0		173	
2006				6	2			8			4			4		62		62	27	1	28		35	79		17			131	0		233	
2007				11	1			12			1			1	1	13	2	16	10		10	1		43		1			45	0		84	
2008				10				10						0		29		29	8		8			31					12	43	0		90
2009				8				8						0		46		46	1		1			45		1	1		47	0		102	
2010				17	6			23			2			2		59		59	1		1		33	61		7			101	0		186	
2011				16				16			0	0		0		62		62	1		1		32	138		4			174	0		253	
2012				5				5			1			1	0	80		80	0		0			126		1			127	0		213	
2013				17				17						0		84		84			0			129		2			131	0		232	
2014				4				4	3					3		36		36			0			104		7			111	0		154	
2015				11				11	1		1			2		22		22	1		1			141		38			179	0		216	
2016				2				2	1					1							0			79					79	2		84	
2017				4				4						0		2		2			0			119					119	0		125	
2018*				21				21																217					217	2		240	

* Preliminary.

** Includes other grenadier species from 1990 to 1996.

Summary of the assessment

There is no assessment for roundnose grenadier in this area.

Sources and references

- ICES. 2012. ICES Implementation of Advice for Data-limited Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM:68. 42 pp.
- ICES. 2018. Advice basis. *In* Report of the ICES Advisory Committee, 2018. ICES Advice 2018, Book 1, Section 1.2. <https://doi.org/10.17895/ices.pub.4503>.
- 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>

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