

ECOREGION **Widely distributed and migratory stocks**
STOCK **Roundnose grenadier (*Coryphaenoides rupestris*) in Subareas VI and VII,
and Divisions Vb and XIIb**

Advice Summary for 2011

Catches should be less than 6000 t and a further reduction in catches from recent levels should be considered in order to be consistent with MSY (see section [1.2.4 of ICES Advisory Report](#)).

Stock status

Fishing mortality	2007	2008	2009
F_{MSY}	Unknown	Unknown	Unknown
F_{PA}/F_{lim}	Unknown	Unknown	Unknown
Spawning Stock Biomass (SSB)	2008	2009	2010
$MSY B_{trigger}$	Unknown	Unknown	Unknown
B_{PA}/B_{lim}	Unknown	Unknown	Unknown

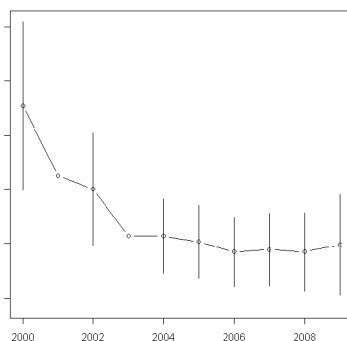
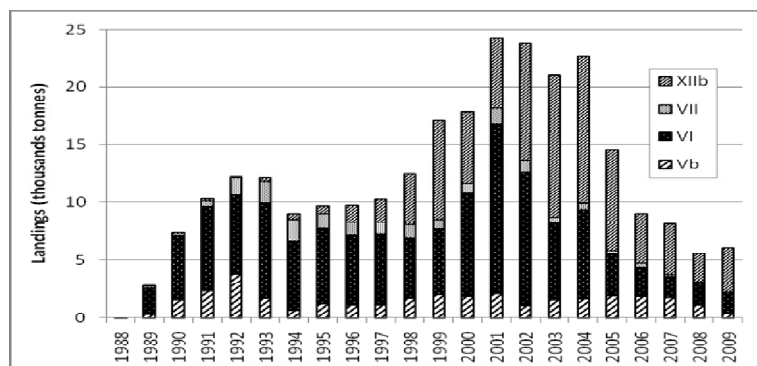


Figure 9.4.15.2.1 Roundnose grenadier in Subareas VI and VII, and Divisions Vb and XIIb. Landings, and abundance indices: Left: cpue of the French reference fleet (landings for fishing trips where roundnose grenadier comprises 10% of total landings vs corresponding effort. Right: based on tally-book data (abundance was predicted for the mean length of all tows carried out in every rectangle of the 5 small areas and averaged across rectangles).

Management plans

No specific management objectives are known to ICES.

In the light of the EU policy paper on fisheries management (17 May 2010, [COM\(2010\) 241](#)) this assessment unit is classified under category 6. The assessment unit area and management area are different.

Biology

Age analyses suggest that roundnose grenadier may have a longevity of around 70 years and a slow growth. This species shows low productivity, which can only sustain low rates of exploitation.

The fisheries

Roundnose grenadier is caught in a mixed fishery catching also deep-water sharks, black scabbardfish and blue ling. The period before the expansion of the fishery corresponds to the years 1990–1996. Landings in recent years have been below TACs both in Vb, VI, VII and XIIb. Length distributions of French and Spanish landings indicate a change towards smaller fish. Discards account for about 30% of catch in weight and 50% in number for the French fleets. Discards for the Spanish fleets are 10-18% of the landings in weight.

Effects of the fisheries on the ecosystem

Deepwater bottom trawls impact ocean floor which includes potential damage to deepwater coral communities. As this fishery is part of mixed fisheries, any effort on roundnose grenadier also impacts other commercial and non commercial deepwater species.

Quality considerations

There are no abundance indices for Hatton Bank (Subarea XIIb and VIb1).

Scientific basis

Assessment type	Landing and cpue trends based assessment
Input data	Landings (1988-current year), LPUEs (2000-current year)
Discards and by-catch	Available for recent years
Indicators	-
Other information	This assessment unit was benchmarked in 2010 (WKDEEP2010)
Working group report	WGDEEP

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Reference points

No reference points have been defined for this assessment unit.

Outlook for 2011

No reliable assessment can be presented for this assessment unit and fishing possibilities cannot be projected.

The 2008-2009 data (landings and cpue) do not change the perception of the stock. Therefore, the advice for the fishery given in 2008 is still appropriate: “*Due to its low productivity, roundnose grenadier can only sustain low rates of exploitation. Cpue in the areas has been at a reduced level. ICES recommends that catches should be constrained to 6000 t (50% of the level before the expansion of the fishery, 1990–1996)*”. A further reduction in catches from recent levels should be considered in order to be consistent with MSY (see section [1.2.4 of ICES Advisory Report](#))

Additional considerations

Abundance indices suggest this stock has been stable at low levels in recent years (2003-2009) after a prior period (1988-2003) of strong decline in biomass. Landings are currently well below the agreed TACs for Vb, VI, VII and XIIb. This situation might change from 2010 with the enforcement of EU council regulation 1288/2009 which constrains fishing vessels to land their discards.

There is a partnership between IFREMER and two French fishing organizations, PMA and Euronor to refine lpue series from tally-books data containing details of 29 000 hauls since 1992. That data are currently used for the assessment of this stock.

Assessment and management area

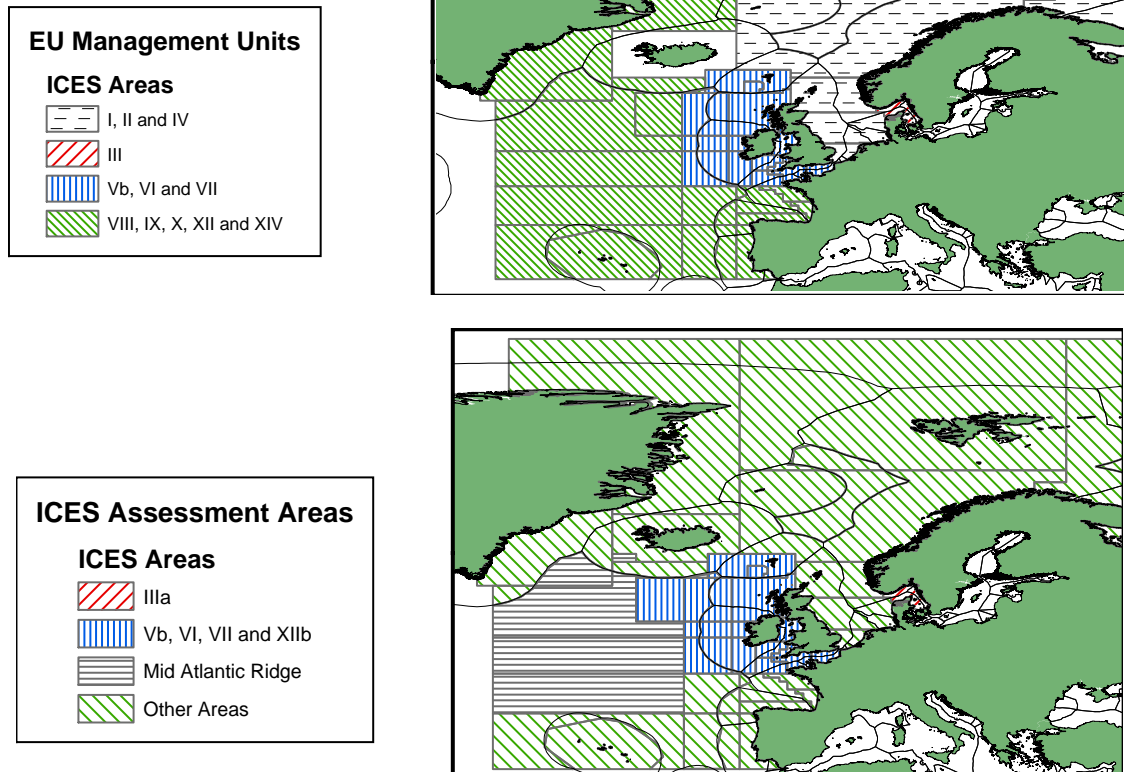


Figure 9.4.15.2.2 Roundnose grenadier in Subareas VI and VII, and Divisions Vb and XIIb. EU TAC Regulation area (top) and ICES assessment areas (bottom).

Sources

ICES. 2010. Report of the Working Group on the Biology and Assessment of Deep-Sea Fisheries Resources, 7–13 April 2010, ICES Headquarters, Copenhagen. ICES CM 2010/ACOM:17

Table 9.4.15.2.1 Roundnose grenadier in Subareas VI and VII, and Divisions Vb and XIIb. Advice, management, and landings.

Year	ICES Advice	Predicted catch corresp. to advice	TAC EU Division Vb, and Subareas VI, VII	TAC EU Division VII, IX, X, XII, XIV	ICES landings Subareas VI and VII, and Divisions Vb and XIIb a
2003	Significant reduction in effort	-	5.106		21.0
2004	Biennial	-	5.106		22.7
2005	50 % reduction in effort in relation to 2000-2002 levels	-	5.253	7.190	14.6
2006	Biennial	-	5.253	7.190	9.0
2007	Constrain catches to 50% level before the expansion period, 1990-1996	6	4.6	6.114	8.0
2008	Biennial	6	4.6	6.114	5.5
2009	Constrain catches to 50% level before the expansion period, 1990-1996	6	3.91	5.197	6.0
2010	Biennial	6	3.324	5.197	
2011	Less than 6 000 t and a further reduction in catches from recent levels should be considered				

Weights in '000 t.

Table 9.4.15.2.4a Roundnose grenadier in Subareas VI and VII, and Divisions Vb and XIIb. Working group estimates of landings (tonnes) by country and Subarea.

Year	Vb								VI												VII						
	Faroes	France	Norway	Germany	Russia/USSR	UK (E+W)	UK (Scot)	Total	Estonia	Faroes	France	Germany	Ireland	Lithuania	Norway	Poland	Russia	Spain	UK (E+W)	UK (Scot)	Total	Faroes	France	Ireland	Spain	UK (Scot)	Total
1988				1				1		27		4							1		32						0
1989	20	181		5	52			258		2	2211	3								2	2218		222				222
1990	75	1470		4				1549		29	5484	2									5515		215				215
1991	22	2281	7	1				2311			7297	7									7304		489				489
1992	551	3259	1	6				3817		99	6422	142			5				2	112	6782		1556				1556
1993	339	1328		14				1681		263	7940	1								1	8205		1916				1916
1994	286	381		1				668			5898	15	14							11	5938		1922				1922
1995	405	818						1223			6329	2	59							82	6472		1295				1295
1996	93	983		2				1078			5888									156	6044		1051				1051
1997	53	1059						1112		15	5795		4							218	6032		1033		5		1038
1998	50	1617						1667		13	5170				21			3			5207		1146		11		1157
1999	104	1861	2			29		1996			5637	3	1					1			5642		892		4		896
2000	48	1699		1		43		1791			7478		41		1			1002	1	433	8956		859				859
2001	84	1932						2016	680	11	5897	6	31	137	32	58	3	6942	21	955	14773		938	416			1354
2002	176	774				81		1031	821		7209		12	1817		932			6	741	11538	1	449	605		3	1058
2003	490	1032				10		1532	52	32	4924		11	939		452	3			185	6598		373	213		1	587
2004	508	985	0	0	6	0	76	1575	26	12	4574	0	8	961	0	13	72	1991	0	72	7729	0	248	320	0	0	568
2005	903	884	1	0	1	0	48	1837	80	24	2897	0	17	92	1	0	71	467	0	44	3694	0	191	55	0	0	246
2006	900	875	0	0	0	0	0	1775	34	25	1931	0	5	112	0	0	0	393	0	15	2515		248	138	0	0	386
2007	838	862	0	0	0	0	0	1700	0	10	1552	0	2	31	0	0	0	252	0	4	1851		207	20	0	0	227
2008	665	447	0	0	0	0	0	1112	0	5.96	1433	0	0	11	0	0	16	458	0	27	1951		27				27
2009*	322	44	0	0	0	0	2	368	0	6	998	0	0	0	0	0	0	752	0	15	1771		28				28

*Preliminary

Table 9.4.15.2.4a Roundnose grenadier in Subareas VI and VII, and Divisions Vb and XIIb. Working group estimates of landings (tonnes) by country and Subarea.

Year	XIIb													TOTAL
	Estonia	Faroes	France**	Germany	Iceland	Ireland	Lithuania	Spain	USSR/Russia	UK (E+W)	UK (Scotl.)	Norway	Total	
1988													0	33
1989			0						52				52	2750
1990			0										0	7279
1991			14						158				172	10276
1992			13										13	12168
1993		263	26	39									328	12130
1994		457	20	9									486	9014
1995		359	285										644	9634
1996		136	179		77			1136					1528	9701
1997		138	111					1800					2049	10231
1998		19	116					4262					4397	12428
1999		29	287					8251	6				8573	17107
2000		6	374	9				5791		9	6		6195	17801
2001		2	159			3		5922			7	1	6094	24237
2002			14				18	10045		1	2		10080	23707
2003			539			1	31	11663			1		12235	20952
2004		8	1 693				120	10880	91		4		12796	22668
2005	20	5	508				13	7804	81		350		8782	14559
2006	27	1	85				6	4242					4361	9037
2007	140	2	0				8	4108					4258	8036
2008		0	0				3	2416	13				2432	5522
2009*			0					3860					3860	6027

*Preliminary; ** French landings reported in former ICES Subarea XII allocated to Division XIIb.