

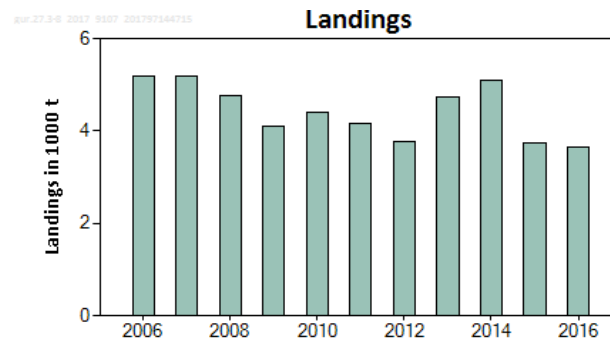
## Red gurnard (*Chelidonichthys cuculus*) in subareas 3–8 (Northeast Atlantic)

### ICES stock advice

ICES advises that when the precautionary approach is applied, landings should be no more than 3618 tonnes in each of the years 2018 and 2019. ICES cannot quantify the corresponding catches.

### Stock development over time

There is limited information to evaluate stock trends. Landings information is of limited usefulness due to several countries reporting landings of “mixed gurnards”. Reporting at a species level has improved since 2006, and landings have been between 3600 t and 5100 t.



**Figure 1** Red gurnard in subareas 3–8. Summary of the stock assessment. Official landings in subareas 3–8.

### Stock and exploitation status

**Table 1** Red gurnard in subareas 3–8. State of the stock and fishery relative to reference points.

		Fishing pressure			Stock size					
		2014	2015	2016	2014	2015	2016			
Maximum sustainable yield	$F_{MSY}$	?	?	?	Undefined	$MSY B_{trigger}$	?	?	?	Undefined
Precautionary approach	$F_{pa}, F_{lim}$	?	?	?	Undefined	$B_{pa}, B_{lim}$	?	?	?	Undefined
Management plan	$F_{MGT}$	—	—	—	Not applicable	$B_{MGT}$	—	—	—	Not applicable
Qualitative evaluation	-	?	?	?	Unknown	-	?	?	?	Unknown

### Catch options

The ICES framework for category 6 stocks was applied (ICES, 2012). For stocks with no indication of the fishing mortality in relation to proxies and with no marked positive trends shown in stock indicators, ICES considers that a precautionary reduction of catches should be implemented. The precautionary buffer was last applied in 2015; therefore, it is not applied this year. For stocks in ICES data categories 3–6, only one catch option is provided.

Discarding is known to take place, but could not be fully quantified.

**Table 2** Red gurnard in subareas 3–8. The basis for the catch options.

Recent advised landings			3618 tonnes
Discard rate			Unknown
Precautionary buffer	Not applied	-	
Landings advice*			3618 tonnes

\* Advice for 2018–2019.

### Basis of the advice

**Table 3** Red gurnard in subareas 3–8. The basis of the advice.

Advice basis	Precautionary approach.
Management plan	ICES is not aware of a management plan for red gurnard in this area.

### Quality of the assessment

Species misidentification continues to be a major problem in estimating the landings of all gurnards and, hence, also red gurnard. Sampling under the Data Collection Framework (DCF) regulation is the main source of information to estimate the total landings of red gurnard.

A number of surveys reporting red gurnard have been examined. Each of these surveys only covers a specific area of red gurnard distribution and the surveys are not presently used to assess stock status.

### Issues relevant for the advice

Discarding is estimated to be high in some fisheries catching this stock. Reported discard rates range from 14% to 94% of the catch. The (incomplete) estimate of discards in 2016 (3125 t) is close to the landings (3646 t).

The catch advice is given for the whole distribution of red gurnard in the northeast Atlantic. Catches by area can be seen in Table 8.

### Reference points

No reference points are defined for this stock.

### Basis of the assessment

**Table 4** Red gurnard in subareas 3–8. Basis of the assessment and advice.

ICES stock data category	6 ( <a href="#">ICES, 2016</a> ).
Assessment type	No assessment (ICES, 2017).
Input data	Commercial landings.
Discards and bycatch	Discarding is known to take place, but discards cannot be fully quantified.
Indicators	-
Other information	None.
Working group	Working Group on Widely Distributed Stocks (WGWIDE).

### Information from stakeholders

No information available.

### History of the advice, catch, and management

**Table 5** Red gurnard in subareas 3–8. ICES advice and official landings. All weights are in tonnes.

Year	ICES advice	Predicted landings corresp. to advice	Agreed TAC	Official landings
2006		-	None	5171
2007		-	None	5171
2008		-	None	4768
2009		-	None	4107
2010		-	None	4395
2011		-	None	4165
2012	No increase in catch	-	None	3765
2013	20% reduction in catches	-	None	4746
2014	Same catch value as advised for 2013	-	None	5098
2015	Same catch value as advised for 2013	-	None	3753
2016	Precautionary approach (decrease catches by at least 20%)	≤ 3618	None	3646*
2017	Precautionary approach (same advised catch value as given for 2016)	≤ 3618	None	
2018	Precautionary approach	≤ 3618		
2019	Precautionary approach (same advised catch value as given for 2018)	≤ 3618		

\* Preliminary.

### History of the catch and landings

**Table 6** Red gurnard in subareas 3–8. Catch distribution by fleet in 2016 as estimated by ICES.

Catch (2016)	Landings	Discards
Unknown	100% undefined gears	Unknown
	3 646 tonnes	

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**Table 7** Red gurnard in subareas 3–8. History of commercial landings; both the official and ICES estimated values (2016) are presented for each country participating in the fishery. All weights are in tonnes.

Year	Belgium	Spain	France	Jersey	Guernsey	Ireland	Isle of Man	Netherlands	Portugal (Div. 9.a)	UK	Total	Intercatch
2006	313	0	4551		10	0	0	57	125	115	5171	
2007	327	0	4495		0	0	0	66	127	156	5171	
2008	353	0	4045		0	0	0	92	112	166	4768	
2009	227	0	3307		0	0	1	160	150	262	4107	
2010	238	0	3426		2	0	0	251	115	363	4395	
2011	306	0	3169		3	0	1	295	135	256	4165	
2012	305	0	2697		4	25	0	329	148	257	3765	
2013	287	576	3152		6	15	2	267	112	329	4746**	
2014	262	400	3787		5	0	5	241	112	285	5097**	
2015	187	82	2922		3	0	0	213	1	342	3750**	
2016*	237	85	2598	3	1	9	1	224	110	378	3646	3547

\* Preliminary.

\*\* Differences in totals between table 7 and 8 to be clarified

**Table 8** Red gurnard in subareas 3–8. History of commercial landings; official values are presented by area. All weights are in tonnes.

Year	ICES divisions																								Total	
	4a	4b	4c	5b	6a	6b	7a	7b	7c	7d	7e	7f	7g	7h	7j	7nk	8a	8b	8c	8d	9a	9nk	10a	10nk		14a
2006	13	83	64	0	32	1	10	9	12	1102	2803	230	16	446	5	1	153	60	1	5	9	115	0	1	0	5171
2007	12	120	55	2	21	0	7	7	15	1229	2670	247	15	437	4	0	139	59	3	2	125	0	0	2	0	5171
2008	34	63	55	0	28	3	5	7	16	1236	2443	249	9	408	5	0	66	25	3	1	109	0	3	0	0	4768
2009	58	58	92	0	95	2	4	7	6	1292	1550	112	23	510	7	0	98	40	1	3	148	0	1	0	0	4107
2010	79	63	86	0	101	46	14	8	10	1531	1609	132	23	433	9	0	100	34	0	2	114	0	0	1	0	4395
2011	66	29	52	0	69	54	13	5	6	1295	1753	124	20	372	9	0	112	46	2	3	133	0	1	0	1	4165
2012	83	71	79	0	51	7	7	2	5	1245	1438	145	53	293	2	0	83	50	8	1	136	4	1	0	1	3765
2013	88	108	60	0	47	0	9	2	6	1193	1690	169	58	477	2	0	79	72	532	1	154	0	2	0	0	4749**
2014	102	51	69	0	47	3	8	1	2	1294	1639	115	19	1069	1		82	75	363	3	132		2		0	5077**
2015	133	102	53	0	58	1	4	3	1	790	1553	87	6	703	1		95	69	81	2	128		2			3872**
2016*	111	82	117	0	75	1	10	3	1	905	1270	114	16	608	1		87	63	54	1	125		1			3645

\* Preliminary.

\*\* Differences in totals between table 7 and 8 to be clarified

## Summary of the assessment

There is no assessment for red gurnard 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. 2016. Advice basis. *In* Report of the ICES Advisory Committee, 2016. ICES Advice 2016, Book 1, Section 1.2.
- ICES. 2017. Report of the Working Group on Widely Distributed Stocks (WGWIDE), 30 August–5 September 2017, ICES HQ, Copenhagen, Denmark. ICES CM 2017/ACOM:23. In prep.