

Grey gurnard (*Eutrigla gurnardus*) in Subarea 4 and divisions 7.d and 3.a (North Sea, eastern English Channel, Skagerrak and Kattegat)

ICES advice on fishing opportunities

ICES has not been requested to provide advice on fishing opportunities for this stock for 2021 and 2022.

Note: This advice sheet is abbreviated due to the COVID-19 disruption. The previous advice issued for 2019 and 2020 is attached as Annex 1.

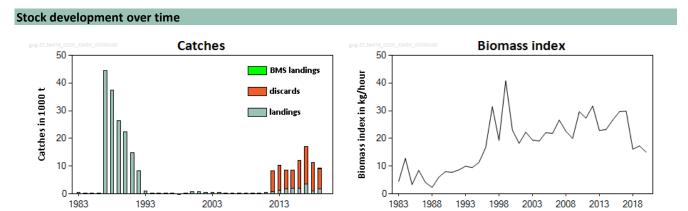


Figure 1 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Summary of the stock assessment. Before 2012 only official landings data were available. Landings below minimum conservation reference size (BMS) are those officially reported.

Stock and exploitation status

Table 1 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. State of the stock and the fishery relative to reference points.

, 5			Fis	hing p	ressure		•	Stock si	ze
		2017	2018		2019		2018	2019	2020
Maximum sustainable yield	F _{MSY} proxy	•	•	0	Below proxy	MSY B _{trigger}	?	?	? Undefined
Precautionary approach	F _{pa} ,F _{lim}	•	•	0	Below possible reference points	B _{pa} ,B _{lim}	3	?	? Undefined
Management plan	F _{MGT}	-	-	–	Not applicable	B _{MGT}	-	-	 Not applicable
Qualitative evaluation	-	_	_	_		-	(A)	②	Decreasing

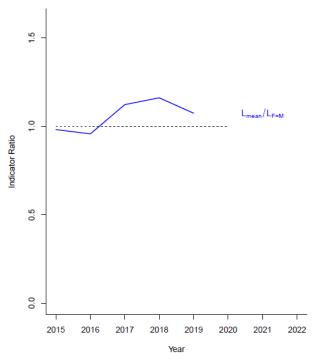


Figure 2 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. The indicator ratio $L_{mean}/L_{F=M}$ from the length-based indicator (LBI; ICES, 2020) method is used for the evaluation of the exploitation status. The exploitation status is below the F_{MSY} proxy when the ratio value is higher than 1.

Catch scenarios

ICES has not been requested to provide advice on fishing opportunities for this stock.

History of the advice, catch, and management

Table 2 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. ICES advice, official landings, and ICES catch estimates. Official landings statistics are not considered reliable for this species due to problems with species identification. All weights are in tonnes.

		Catch	Official landings in			
Year	ICES advice	corresponding	Subarea 4 and	ICES landings	ICES discards	ICES catch
		to advice	divisions 3.a and 7.d			
2009		ı	285			
2010			390			
2011		-	442			
2012	No increase in catch	-	658	689	7656	8345
2013	No increase in catch	-	528	1180	9050	10230
2014	No new advice, same as for 2013	1	500	1892	6704	8596
2015	No new advice, same as for 2013	-	2028	2141	6310	8451
2016	No new advice, same as for 2013	-	1831	2156	9973	12129

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		Catch	Official landings in			
Year	ICES advice	corresponding	Subarea 4 and	ICES landings	ICES discards	ICES catch
		to advice	divisions 3.a and 7.d			
2017	Precautionary approach	8813**	3203	3451	13670	17121
2018	Precautionary approach	8813**	1600*	1137	10281	11418
2019	No catch advice requested	-	1621*	1709	7586	9295
2020	No catch advice requested	-				
2021	No catch advice requested	-				
2022	No catch advice requested	-				

^{*} Preliminary.

Summary of the assessment

Table 3 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Assessment summary. All weights are in tonnes.

Table 3 Gre	ey gurnard in Subarea 4 a	nd divisions 7.d and 3.a	. Assessment summa		nnes.
Year	Biomass index	Landings*	Discards	Official BMS	Indicator ratio
	kg × hour⁻¹	Larranigs	Discards	landings	$(L_{mean}/L_{F=M})**$
1983	4.48	589			
1984	12.85	265			
1985	3.38	301			
1986	8.49	326			
1987	4.15	44422			
1988	2.35	37445			
1989	6.03	26470			
1990	8.07	22303			
1991	7.80	14741			
1992	8.67	8365			
1993	10.01	1060			
1994	9.51	254			
1995	11.38	211			
1996	16.68	301			
1997	31.44	253			
1998	19.31	145			
1999	40.80	254			
2000	23.04	661			
2001	18.26	690			
2002	22.29	499			
2003	19.44	525			
2004	19.08	452			
2005	22.13	378			
2006	21.87	267			
2007	26.62	278			
2008	22.58	273			
2009	20.04	285			
2010	29.67	390			
2011	27.33	442			

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^{**} Advice based on ICES catches.

Year	Biomass index kg × hour ⁻¹	Landings*	Discards	Official BMS landings	Indicator ratio (L _{mean} /L _{F = M})**
2012	31.70	689	7656		
2013	22.88	1180	9050		
2014	23.20	1892	6704		
2015	26.68	2141	6310		0.98
2016	29.69	2156	9973		0.96
2017	29.84	3451	13670		1.12
2018	16.14	1137	10281		1.16
2019	17.32	1709	7573***	13	1.07
2020	15.07				

^{*} Landings data are not reliable before 2012, e.g. some countries did not report grey gurnard and often gurnards were only reported as a mixture of several gurnard species.

Sources and references

ICES. 2020. ICES Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK).ICES Scientific Reports. 2:61. http://doi.org/10.17895/ices.pub.6092

Recommended citation: ICES. 2020. Grey gurnard (*Eutrigla gurnardus*) in Subarea 4 and divisions 7.d and 3.a (North Sea, eastern English Channel, Skagerrak and Kattegat). *In* Report of the ICES Advisory Committee, 2020. ICES Advice 2020, gug.27.3a47d. https://doi.org/10.17895/ices.advice.5822.

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^{**} The exploitation status is below the $F_{\mbox{\scriptsize MSY}}$ proxy when the ratio values is higher than 1.

^{***} Since 2019, discards minus BMS landings from EU fleets officially reported in logbooks.



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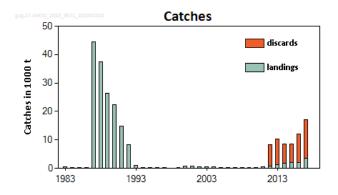
Grey gurnard (Eutrigla gurnardus) in Subarea 4 and divisions 7.d and 3.a (North Sea, eastern English Channel, Skagerrak and Kattegat)

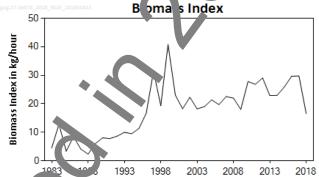
ICES advice on fishing opportunities

ICES has not been requested to provide advice on fishing opportunities for this stock.

Stock development over time

The time-series of mature biomass index of grey gurnard from the International Bottom Tra VI Sur. v quarter 1 (IBTS-Q1) shows a strong increase from the beginning of 1990s and has since fluctuated at a high level.



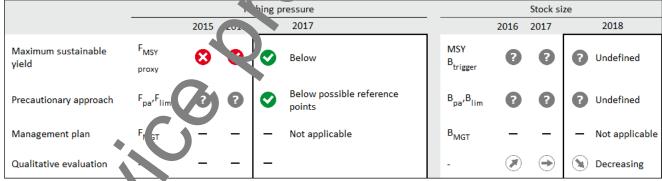


Grey gurnard in Subarea 4 and divisions 7.d and 2 a. Subar ary if stock assessment. Before 2012 only official landings data were available which are not reliable, e.g. the Netherlands did not report grey gurnard before 2000 and often gurnards were reported as a gurnard mix only. Since 202 Nandings and discards are based on InterCatch data.

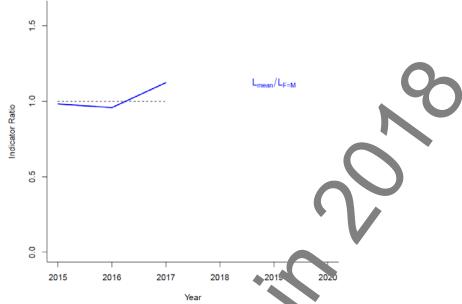
Stock and exploitation status

ICES assesses that fishing pressure on the stock is per use; no reference points for stock size have been defined for this stock.

Table 1 Grey gurnard in Subarea 4 and chisters 7 and 3.a. State of the stock and fishery relative to reference points.



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Grey gurnard in Subarea 4 and divisions 7.d and 3.a. The index ratio L_{mean/VF=M} from the length-based indicator (LBI; ICES, 2017b) method is used for the evaluation of the exploitation status. The exploitation status is below the F_{MSY} proxy when the ratio value is higher than 1.

Catch scenarios

ICES has not been requested to provide advice on fishing opportunity. for ice cock

Basis of the advice

ICES has not been requested to provide advice on fishing opportunities for this stock.

Table 2 Grey gurnard in Subarea 4 and divisions and 3.a. The basis of the advice.

Advice basis	ICES has not been requ	ested to	provide advice on fishing opportunities for this stock
Management plan	ICES is not aware of an	Tre	precautionary management plan for grey gurnard in this area

Quality of the assessment

Species misidentification and reporting of urnard groups continues to be a problem in estimating the landings and discards of grey gurnard. Discard estimates are only available to ICES since 2012. In addition, discarding is estimated to be high. Sampling under the Data Collection Framework (DCF) regulation is the main source of information for estimating the total catch of grey gurnary the 017 length data are considered to be more representative of catches than the preceding two years because of a more complete data submission, and therefore the exploitation status in 2017 is likely to be more robust.

Issues relevant for the actice

There is no total llowable catch (TAC) for this species.

Grey gurnard is main / discarded in the bottom trawl fishery for roundfish and flatfish and taken as bycatch species in the industrial. Schery for sandeel and sprat.

Reference points

Table 3 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
	MSY B _{trigger_{proxy}}	Not defined		
MSY approach		22.0 cm	Expected mean length of catch above L _c when	SES (2018)
	F _{MSY} _{proxy}	(2015-2017)	F = M, assuming M/K = 1.5	E3 2016)
	B_{lim}	Not defined		
Precautionary	B_pa	Not defined		
approach	F _{lim}	Not defined		
	F _{pa}	Not defined		
Managament plan	SSB_{mgt}	Not defined		
Management plan	F_{mgt}	Not defined		

Basis of the assessment

Table 4 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Basis of assessment and advise.

ICES stock data category	3 (<u>ICES, 2016</u>)
Assessment type	Trends-based assessment (ICES, 2018); Length based indicates
Input data	Length distribution of the catches; One survey into x (IBTS-Q1), with maturity and length-weight relationship
Discards and bycatch	Discards only occur in the human consumption fit peries, d have been quantified for the period 2012–2017. Discards ranged between 75% and 92% of the total catch. In 2017 discard information was provided for 15% of the total landings.
Indicators	None
Other information	None
Working group	Working Group on the Assessment of Deme. at Stocks in the North Sea and Skagerrak (WGNSSK)

Information from stakeholders

There is no additional available information.

History of the advice, catch, and management

Table 5 Grey gurnard in Subarea 4 and visions 7.d and 3.a. ICES advice, official landings, and ICES catch estimates. Official landings statistics are not concluded the reliable for this species due to problems with species identification. All weights in tonnes.

Year	ICES advice	Catch co. esponding to advice	Official landings in 4, 3.a, and 7.d	ICES landings	ICES discards	ICES catch
2009		-	285			
2010		-	390			
2011	•	-	442			
2012	No increase in c +ch	-	658	689	7656	8345
2013	No increase in catci.	-	528	1180	9050	10230
2014	No new advice, ame as for 2013	-	500	1892	6704	8596
2015	No ne radvice, some as for 2013	1	2028	2141	6310	8451
2016	No ew au ice, same as for 2013	-	682*	2156	9973	12129
2017	Prec utionally approach	8813**	3203*	3451	13670	17121
201	Precautionary approach	8813**				
2019	N casal advice requested	-				
2020	o catch advice requested	-				

^{*} Preliminar,

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^{**} Advice based on ICES catches

History of the catch and landings

 Table 6
 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Catch distribution by fleet in 2017 as estimated by ICES.

Catch (2017)		Discards		
17101+	67% Industrial bycatch	32% demersal trawl and seines	1% others	3670 t
17121 t		3451 t		3670 t

Grey gurnard in Subarea 4 and divisions 7.d and 3.a. History of commercial official landings present they area for each country participating in the fishery. All weights in tonnes. Official landings are inc mp, ite, estimated ICES landings are presented in Table 9.

	idildilg5 d	re presented in		y gurnard in Sub	parea 4			
Year	Belgium	Denmark	France	Netherlands	Norway	Sweden	U U	Total
1980	0	0	43	0	0		0	43
1981	0	0	0	0	0		. 0	0
1982	0	0	100	0	0	C	0	100
1983	0	0	64	0	0	0	0	64
1984	0	0	71	0	0	0	0	71
1985	88	0	85	0	0	0	0	173
1986	0	27	66	0	• 0 1	0	0	93
1987	63	44205	56	0	6	0	0	44324
1988	72	36887	43	0	0	0	22	37024
1989	73	26230	45	0	0	0	0	26348
1990	85	22041	42	0	S	0	0	22168
1991	70	14514	28	0		0	0	14612
1992	98	8113	21	0	0	0	10	8242
1993	106	822	27	0	0	0	24	979
1994	63	87	21	0	0	0	22	193
1995	43	63	26	C	0	0	21	153
1996	108	52	18	0	0	0	54	232
1997	49	23	22		0	0	57	151
1998	33	29	13	0	0	0	0	75
1999	35	63	0	0	0	127	0	225
2000	28	63	5	452	0	0	0	548
2001	22	258		277	0	1	33	611
2002	23	45	10	285	0	1	29	393
2003	16	60		307	0	6	26	420
2004	21	59	6	264	0	3	23	376
2005	16	52	ŏ	213	0	8	22	316
2006	10	46 <	2	133	2	0	7	200
2007	11	16	3	155	5	0	14	204
2008	8	24	2	104	5	3	12	158
2009	15		2	154	1	1	22	201
2010	14	8	10	218	2	0	14	266
2011	26		7	263	1	0	31	334
2012	49	3	4	467	2	0	77	602
2013	30	5	2	268	33	1	131	470
2014	15	4	3	252	56	0	128	478
2015	22	1220	2	229	172	5	354	2004
2016	21	7	6	232	83	5	297	661
2017	24	2067	4	320	172	8	314	2909

		Gre	ey gurnard in Divisio	on 3.a		
Year	Belgium	Denmark	Netherlands	Norway	Sweden	Total
1980	0	0	0	0	36	36
1981	0	0	0	0	46	46
1982	0	86	0	0	43	129
1983	0	29	0	0	7	36
1984	0	62	0	0	6	68
1985	0	3	0	0	9	12
1986	0	6	0	0	16	16
1987	1	13	0	0	6	20
1988	0	59	0	0	2	61
1989	0	19	0	0		23
1990	0	34	0	0		37
1991	0	25	0	0	5	30
1992	0	22	0	0	10	32
1993	0	18	0	0	9	27
1994	0	12	0	0	12	24
1995	0	10	0	0	5	15
1996	0	18	0	0	3	21
1997	0	13	0	U	5	18
1998	0	27	0	3	8	35
1999	0	23	0	0	5	28
2000	0	32	0	0	5	37
2001	0	30	0	0	3	33
2002	0	18	0	0	1	19
2003	0	32	1	0	1	33
2004	0	24		0	2	28
2005	0	21		0	1	26
2006	0	19	0	0	2	21
2007	0	21		0	3	25
2008	0	24	0	0	5	29
2009	0	15	0	0	3	18
2010	0	10	1	0	2	13
2011	0		0	0	1	6
2012	0		0	0	1	6
2013	0	5	0	0	1	6
2014	0	3	0	0	1	4
2015	0	10	1	1	2	14
2016	0	9	1	0	2	12
2017	0	256	6	4	3	269

Grey gurnard in Division 7.d					
Year	Belgium	France	Netherlands	UK	Total
1980		950	0	0	950
1981	0	0	0	0	0
1982	0	380	0	0	380
1983	0	489	0	0	489
1984	0	126	0	0	126
1985	14	102	0	0	116
1986	0	217	0	0	217
1987	12	66	0	0	78
1988	14	346	0	0	360
. 90×	9	90	0	0	99
19 0	6	92	0	0	98
1991	5	94	0	0	99
1992	6	85	0	0	91
1993	7	47	0	0	54
1994	4	33	0	0	37
1995	7	36	0	0	43

Grey gurnard in Division 7.d					
Year	Belgium	France	Netherlands	UK	Total
1996	4	44	0	0	48
1997	3	81	0	0	84
1998	1	34	0	0	35
1999	1	0	0	0	1
2000	9	67	0	0	76
2001	6	40	0		46
2002	32	54	1	C	87
2003	18	42	12	0	72
2004	14	3	31		48
2005	13	2	21	0	36
2006	8	2	22	1	46
2007	3	1	9	36	49
2008	1	3	16	6ر	86
2009	1	1	3	61	66
2010	6	2	39	64	111
2011	11	5	53	33	102
2012	11	5	41	23	50
2013	23	4	11	14	52
2014	7	5	4	2	18
2015	2	6	2	0	10
2016	1	6		00	9
2017	1	8	4)	12	25

Summary of the assessment

Table 8 Grey gurnard in Subarea 4 and divisions 7.d and 3.a. Assessments immary (weights in tonnes).

Year	Biomass Index kg / hour	Lai lings tonne	Discards tonnes	L _{mean} /L _{F=M} **
1983	4	589		
1984	13	265		
1985	3	301		
1986	8	326		
1987	4	44422		
1988	2 .	37445		
1989	6	26470		
1990	8	22303		
1991	8	14741		
1992	9	8365		
1993	10	1060		
1994	10	254		
1995	11	211		
1996	17	301		
1997	31	253		
1998	19	145		
1999	41	254		
2000	23	661		
2001	18	690		
2002	22	499		
2003	18	525		
2004	19	452		
2705	21	378		
20 5	20	267		
200)	23	279		
2008	22	273		
2009	18	285		
2010	28	388		

Year	Biomass Index kg / hour	Landings* tonnes	Discards tonnes	L _{mean} /L _{F=M} **
2011	27	442		
2012	29	689	7656	
2013	23	1180	9050	
2014	23	1892	6704	
2015	26	2141	6310	0.98
2016	30	2156	9973	0.96
2017	30	3451	13670	1.12

^{*} Landings data are not reliable before 2012, e.g. Netherlands did not report grey gurnard before 2000 and often gurnards were only reported as a gurnard mix including several gurnard species.

Sources and references

ICES. 2016. Advice basis. *In* Report of the ICES Advisory Committee, 2016. ICES Advice 2016, E. ok 1, Section 1.2. http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2016/2016/Introduction_to_advice_2016.pdf

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ICES Advice 2018

^{**} The exploitation status is below the F_{MSY} proxy when the ratio values is higher than 1.