ICES Advice on fishing opportunities, catch, and effort
Celtic Seas and Greater North Sea ecoregions
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Brill (*Scophthalmus rhombus*) in Subarea 4 and divisions 3.a and 7.d–e (North Sea, Skagerrak and Kattegat, English Channel)

ICES advice on fishing opportunities

ICES advises that when the maximum sustainable yield (MSY) approach is applied, catches in 2026 should be no more than 3 086 tonnes.

ICES notes the existence of a precautionary management plan, developed and adopted by one of the relevant management authorities for this stock.

Non-fisheries conservation considerations

Conservation aspects and associated management measures may exist at a national or regional level but were not reviewed by ICES.

Stock development over time

Fishing pressure on the stock is below F_{MSY}, and the stock size is above MSY $B_{trigger}$.

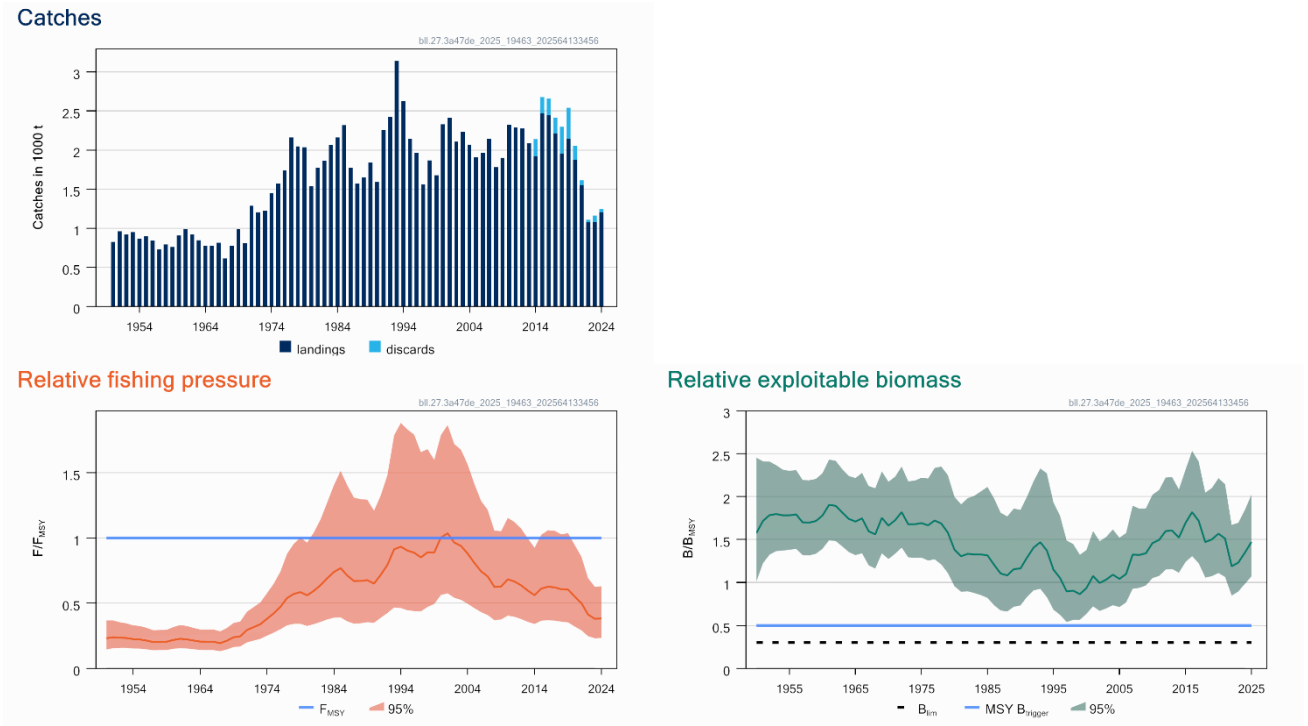

Figure 1 Brill in Subarea 4 and divisions 3.a and 7.d–e. Summary of the stock assessment. Discard data are available since 2014.

Catch scenarios

Table 1 Brill in Subarea 4 and divisions 3.a and 7.d–e. Values in the forecast and for the interim year. The figures in the table are rounded. Calculations were done with unrounded inputs, and computed values may not match exactly when calculated using the rounded figures in the table.

Variable	Value	Notes
F_{2025}/F_{MSY}	0.39	Status quo F/F_{MSY}: F_{2024}/F_{MSY}
B_{2026}/B_{MSY}	1.54	Short-term forecast (STF)
Projected landings (2025)	1286	STF of landings under F_{sq}; in tonnes
Discard rate (2025, 2026)	4.4	Average 2022—2024; percentage by weight of the total catch
Projected discards (2025)	59	Based on the average discard rate; in tonnes
Catch (2025)	1345	Based on the average discard rate; in tonnes

Table 2 Brill in Subarea 4 and divisions 3.a and 7.d–e. Annual catch scenarios. All weights are in tonnes.

Basis	Total catch (2026)*	Projected landings (2026)	Projected discards (2026)**	Fishing mortality F_{2026}/F_{MSY}	Stock size B_{2027}/B_{MSY}	% B/B_{MSY} change***	% total allowable catch (TAC) change^	% advice change^^
ICES advice basis								
Maximum sustainable yield (MSY) approach (35th percentile of predicted catch distribution under $F = F_{MSY}$)	3086	2950	136	0.92	1.36	−13.0	3.9	3.9
Other scenarios								
F_{MSY}	3314	3168	146	1.00	1.33	−15.5	11.6	11.6
$F = F_{2025}$	1390	1329	61	0.39	1.57	2.4	−53	−53
F = 0	0	0	0	0	1.74	12.0	−100	−100

* Based on the average discard rate.
** Including below minimum size (BMS) landings, assuming recent discard rate.
*** B/B_{MSY} 2027 relative to B/B_{MSY} 2026.
^ Total advised catch in 2026 relative to the EU–UK agreed catch limit approach for 2025 (2970 tonnes). This limit reflects the sum of the EU–UK agreed TACs in 2025 (2953 tonnes), divided by 0.9945 to account for a 0.55% deduction for third-country catches, following the method for projecting third-country catches (EU–UK Joint Committee, 2023).
^^ Advice value for 2026 relative to the advice value for 2025 (2970 tonnes).

The change in advice (+3.9%) is mainly because of an increase in the estimated biomass.

Basis of the advice

Table 3 Brill in Subarea 4 and divisions 3.a and 7.d–e. The basis of the advice.

Advice basis	Maximum sustainable yield (MSY) approach
Management plan	The EU multiannual plan (MAP) for stocks in the North Sea (EU, 2018) and adjacent waters applies to bycatches of this stock. Neither Norway nor UK has requested ICES to provide advice based on the EU MAP. The MAP stipulates that when the F_{MSY} ranges are not available, fishing opportunities should be based on the best available scientific advice.

Quality of the assessment

The assessment revises SSB in subsequent years without a clear trend, while fishing mortality estimates are consistent throughout the years.

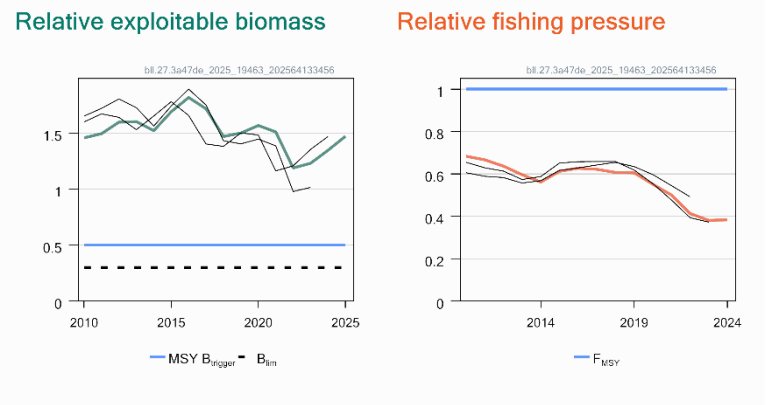

Figure 2 Brill in Subarea 4 and divisions 3.a and 7.d–e. Historical assessment results. The exploitable biomass is relative to B_{MSY}. Fishing pressure is relative to F_{MSY}.

Issues relevant for the advice

Brill is mainly a bycatch species in fisheries for plaice and sole. As such, fishing mortality for brill is influenced by the fishery management measures imposed for plaice and sole stocks.

Reference points

Table 4 Brill in Subarea 4 and divisions 3.a and 7.d–e. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	$\frac{B}{B_{MSY}} = 0.5$ *	Relative value from the SPiCT model. B_{MSY} is estimated directly from the SPiCT assessment model and changes when the assessment is updated.	ICES (2023a)
	F_{MSY}	$\frac{F}{F_{MSY}} = 1$ *	Relative value from the SPiCT model. F_{MSY} is estimated directly from the SPiCT assessment model and changes when the assessment is updated.	ICES (2023a)
Precautionary approach	B_{lim}	$\frac{B}{B_{MSY}} = 0.3$ *	Relative value from the SPiCT model	ICES (2023a)
	B_{PA}	Not defined		
	F_{PA}	Not defined		
Management plan	SSB_{mgt}	Not defined		
	F_{mgt}	Not defined		

* No reference points are defined for this stock in terms of absolute values. The SPiCT-estimated values of the ratios F/F_{MSY} and B/B_{MSY} are used to estimate stock status relative to the MSY reference points.

Basis of the assessment

Table 5 Brill in Subarea 4 and divisions 3.a and 7.d–e. Basis of assessment and advice.

ICES stock data category	2 (ICES, 2023b)
Assessment type	SPiCT assessment* (Pedersen and Berg, 2017; ICES, 2025)
Input data	Commercial landings (historical landings 1950–2013, ICES estimated landings 2014–present) and three exploitable biomass indices. The first two indices are modelled together, representing the first and second half of the year, based on data from the beam trawl surveys (BTS; Q1 [UK: B2732], Q3 [DE, NL, BE and UK: B2453] and Q4 [UK: B3738]), the Demersal Young Fish Surveys (DYFS; Q3-4 [BE, NL, DE: B7567]), the Dutch Sole Net Survey (SNS; Q3 [B3499]), the North Sea International Bottom Trawl Survey (NS-IBTS; Q1 [G1022] and Q3 [G2829]), the Baltic International Trawl Survey (BITS; Q1 [G2916] and Q4 [G8863]), and the French Groundfish Survey (FR-GFS; Q4 [G3425]) covering Subarea 4 and Divisions 3.a and 7.d–e since 1999. The third index is based on the NS-IBTS Q1 [G1022] between 1983 and 1998.
Discards and bycatch	Discards are not included in the assessment but are used to provide advice. Average discard rate 2022—2024 by weight of the total catch: 4.4%.
Indicators	None
Other information	Last benchmarked in 2023 (ICES, 2023a)
Working group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK)

* View assessment in Transparent Assessment Framework (TAF)

History of the advice, catch, and management

Table 6 Brill in Subarea 4 and divisions 3.a and 7.d–e. ICES advice, total allowable catches (TACs), official landings, and ICES catch estimates. All weights are in tonnes. Small differences between catch and the sum of landings and discards are due to rounding.

Year	ICES advice	Brill						Turbot and brill	
		Subarea 4 and divisions 3.a and 7.d-e						Subarea 4 and Division 2.a	
		Catch corresponding to advice	Agreed TAC*	Official landings	ICES estimates			Agreed TAC***	Official landings
					Landings^	Discards^^	Catches		
2000		-		2327				9000	5534
2001		-		2409				9000	5674
2002		-		2108				6750	5052
2003		-		2233				5738	4721
2004		-		2071				4877	4568
2005		-		1904				4550	4355
2006		-		1963				4323	4157
2007		-		2142				4323	4754
2008		-		1781				5263	4015
2009		-		1902				5263	4258
2010		-		2321				5263	4201
2011		-		2292				4642	4312
2012	No increase in catch	-		2276				4642	4529
2013	No new advice, same as for 2012	-		2088				4642	4480
2014	No more than 20% increase in recent average catch (2010–2012)	≤ 2727		1978	1920	217	2137	4642	4132
2015	No new advice, same as for 2014	≤ 2727		2537	2470	207	2677	4642	4677
2016	Precautionary approach (decrease catches by 6%)	≤ 2756		2415	2444	216	2660	4488	4953
2017	Precautionary approach (same advised catch value as given for 2016)	≤ 2756		2292	2207	210	2418	5924	5106
2018	Precautionary approach (increase catches by 15%)	≤ 3170		2027	1956	343	2299	7102	4422
2019	Precautionary approach (same advised catch value as given for 2018)	≤ 3170		2186	2147	392	2539	8122	4514
2020	Precautionary approach	≤ 2559		1903	1872	182	2055	6498	4389
2021	Precautionary approach	≤ 2047		1571	1553	62	1614	5848	3593

Year	ICES advice	Brill						Turbot and brill	
		Subarea 4 and divisions 3.a and 7.d-e						Subarea 4 and Division 2.a	
		Catch corresponding to advice	Agreed TAC*	Official landings	ICES estimates			Agreed TAC***	Official landings
					Landings^	Discards^^	Catches		
2022	Precautionary approach	≤ 1878		1078	1072	34	1106	5487	2200
2023	Maximum sustainable yield (MSY) approach	≤ 1315		1073**	1080	82	1162	3747	2154**
2024	MSY approach	≤ 2456	2443	1210**	1206	38	1244		
2025	MSY approach	≤ 2970	2953						
2026	MSY approach	≤ 3086							

* The total EU–UK agreed catch limit representing the sum of TACs for brill in: (1) UK and EU waters of Subarea 4 and UK and UK water of Division 2.a, (2) EU waters of Division 3.a, and (3) UK and EU waters of Divisions 7.d and 7.e. This total is then divided by 0.9945 to account for a 0.55% deduction for third-country catches, following the method for projecting third-country catches (EU–UK Joint Committee, 2023).
** Preliminary.
*** A combined TAC for brill and turbot in EU waters of Subarea 4 and Division 2.a up to 2020 and in UK and EU waters of 4; UK waters of 2.a thereafter. Since 2024 the TAC is given separately for brill.
^ Since 2020, landings include industrial bycatch (2 tonnes in 2020, 0.601 tonnes in 2021, 0.05 tonnes in 2022, 0.709 tonnes in 2023 and 1.32 tonnes in 2024).
^^ Since 2019, discards estimated by ICES include below minimum size (BMS) landings.

History of the catch and landings

Table 7 Brill in Subarea 4 and divisions 3.a and 7.d–e. Catch distribution by fleet in 2024 as estimated by ICES.

Catch	Landings				Discards*
1 244 tonnes	Beam trawls 48.1%	Otter trawls 34.3%	Trammel/gillnets 13.4%	Other gears 4.2%	38 tonnes
	1 206 tonnes				

* Discards include BMS landings from EU and UK fleets.

Table 8a Brill in Subarea 4 and divisions 3.a and 7.d–e. **Subarea 4.** History of commercial landings; the official landings and below minimum size (BMS) landings are presented by area for each country participating in the fishery. All weights are in tonnes.

Brill in Subarea 4										
Year	Belgium	Germany	Denmark	France	UK	Netherlands	Norway	Sweden	BMS landings	Total
1950	34	23	39	0	183	108	1	19		407
1951	23	19	53	0	322	93	1	19		530
1952	21	34	65	0	350	117	3	9		599
1953	23	41	49	0	376	130	0	11		630
1954	19	37	53	0	330	106	14	7		566
1955	23	42	51	0	357	137	3	0		613
1956	28	42	47	0	276	156	0	9		558
1957	32	31	27	0	247	154	0	8		499
1958	43	30	42	0	223	162	0	10		510
1959	41	26	30	0	219	125	0	9		450
1960	55	28	37	0	235	150	1	8		514
1961	102	34	40	0	264	166	0	9		615
1962	97	53	42	0	238	214	0	0		644
1963	79	52	59	0	307	175	0	0		672
1964	79	42	46	0	161	279	0	0		607
1965	71	31	56	0	127	281	0	0		566
1966	100	26	63	0	119	264	0	0		572
1967	138	27	29	0	105	137	0	0		436
1968	152	40	43	0	110	274	0	0		619
1969	145	38	47	0	102	364	0	0		696
1970	114	35	42	0	76	386	0	0		653
1971	187	45	72	0	94	720	0	0		1118
1972	213	15	65	0	51	665	0	0		1009
1973	185	13	55	0	39	710	0	0		1002
1974	135	15	68	0	44	905	0	0		1167
1975	164	20	76	13	44	925	0	0		1242
1976	148	15	65	10	45	940	0	0		1223
1977	166	37	88	17	60	1079	0	0		1447
1978	175	43	123	26	84	967	0	0		1418
1979	188	27	154	10	103	908	0	0		1393***
1980	129	21	104	8	45	747	0	0		1054
1981	148	8	66	5	42	957	0	0		1226
1982	182	6	53	11	41	1007	0	0		1300
1983	182	7	62	23	28	1153	0	0		1455
1984	190	11	73	30	29	1200	0	0		1533
1985	187	4	71	35	46	1370	0	0		1713
1986	131	5	76	4	46	950	0	0		1212
1987	140	5	50	17	48	715	0	0		975
1988	102	10	33	18	52	880	0	0		1095
1989	112	15	43	9	58	1080	0	0		1317
1990	168	30	139	24	82	480	0	0		923
1991	205	38	145	28	147	1111	8	0		1682

Brill in Subarea 4										
Year	Belgium	Germany	Denmark	France	UK	Netherlands	Norway	Sweden	BMS landings	Total
1992	203	59	77	34	218	1196	22	1		1810
1993	291	63	118	38	268	1647	14	0		2439
1994	208	90	109	28	235	1235	11	0		1916
1995	194	67	55	24	145	943	6	0		1434
1996	206	47	64	15	175	732	8	0		1247
1997	129	48	38	1	135	590	16	0		957
1998	160	58	58	11	172	808	16	0		1283
1999*	161	51	91	na	156	805	16	0		1280
2000	167	77	93	16	141	998	16	0		1508
2001	182	66	67	12	158	1075	13	0		1573
2002	145	58	52	10	120	907	10	0		1302
2003	145	70	57	9	119	934	12	0		1346
2004	140	66	77	7	168	772	19	0		1249
2005	120	62	89	7	138	716	28	0		1160
2006	105	55	75	9	154	765	12	0		1175
2007	110	47	52	12	156	854	9	0		1239
2008	117	42	86	5	93	650	11	0		1004
2009	109	54	96	8	105	786	4	0		1162
2010	104	75	97	12	136	1072	4	0		1499
2011	101	57	122	13	137	1061	6	0		1496
2012	110	71	126	12	122	1084	7	0		1532
2013	101	63	123	10	118	972	4	0		1390
2014	99	69	96	9	117	857	9	0		1255
2015	154	115	122	7	136	1159	1	0		1695
2016	175	90	131	8	156	965	1	0		1526
2017	138	76	121	7	116	1000	2	< 0.5		1460
2018	98	80	96	6	100	805	2	< 0.5	< 0.5	1188
2019	116	132	90	5	112	932	1	0	2	1387
2020	84	99	95	2	95	813	1	< 0.5	< 0.5	1189
2021	67	59	110	1	66	575	1	< 0.5	< 0.5	879
2022	31	26	88	1	48	295	1	< 0.5	< 0.5	490
2023**	43	44	77	< 0.5	63	268	2	< 0.5	< 0.5	497
2024**	62	59	84	< 0.5	92	349	2	< 0.5	< 0.5	649

* French landings of brill in 1999 were provided as a total for all ICES areas (373 t) and not by ICES area.
** Preliminary.
*** Includes 3 tonnes from Ireland.

Table 8b Brill in Subarea 4 and divisions 3.a and 7.d–e. **Division 3.a.** History of commercial landings; the official landings and below minimum size (BMS) landings are presented by area for each country participating in the fishery. All weights are in tonnes.

Brill in Division 3.a								
Year	Belgium	Germany	Denmark	Netherlands	Norway	Sweden	BMS landings	Total
1950	0	42	234	0	0	85		361
1951	0	18	260	0	4	73		355
1952	0	15	170	0	1	65		251
1953	0	9	175	0	0	71		255
1954	0	7	155	0	1	78		241
1955	0	10	150	0	0	62		222
1956	0	11	163	0	0	50		224
1957	0	10	110	0	0	38		158
1958	0	11	166	0	0	37		214
1959	0	16	175	0	0	58		249
1960	0	23	272	0	0	46		341
1961	0	20	255	0	0	50		325

Brill in Division 3.a								
Year	Belgium	Germany	Denmark	Netherlands	Norway	Sweden	BMS landings	Total
1962	0	15	207	0	0	0		222
1963	0	2	120	0	0	0		122
1964	0	3	106	0	0	0		109
1965	0	5	155	0	0	0		160
1966	0	1	187	0	0	0		188
1967	0	2	106	0	0	0		108
1968	0	1	100	0	0	0		101
1969	0	1	99	0	0	0		100
1970	0	1	97	0	0	0		98
1971	0	1	104	0	0	0		105
1972	0	1	120	0	0	0		121
1973	0	3	131	0	0	0		134
1974	0	2	200	0	0	0		202
1975	0	2	167	1	0	19		189
1976	1	3	185	26	0	12		227
1977	1	1	276	99	0	12		389
1978	0	2	178	27	0	11		218
1979	0	0	156	17	0	11		184
1980	2	0	69	1	0	10		82
1981	0	0	54	0	0	5		59
1982	1	0	64	1	0	8		74
1983	0	0	73	3	0	7		83
1984	0	0	89	0	0	8		97
1985	0	0	100	0	0	9		110
1986	0	0	94	0	0	12		107
1987	0	0	93	0	0	10		105
1988	0	0	91	0	0	10		101
1989	0	0	88	0	0	9		97
1990	1	0	116	0	0	11		128
1991	1	0	81	0	7	10		99
1992	1	0	123	0	7	15		146
1993	2	0	184	0	10	16		212
1994	0	0	191	0	12	17		222
1995	0	1	124	0	13	13		151
1996	0	0	94	0	12	5		112
1997	0	1	83	0	11	11		106
1998	0	1	108	0	10	13		132
1999	0	1	126	0	13	17		157
2000	0	2	112	0	12	16		142
2001	0	0	73	0	13	12		98
2002	0	0	66	0	12	11		90
2003	0	1	99	1	12	16		128
2004	0	1	119	4	15	17		156
2005	0	0	101	3	16	13		133
2006	0	1	105	3	16	14		140
2007	0	1	119	3	15	22		160
2008	0	2	138	1	13	28		181
2009	0	1	98	1	14	32		146
2010	0	1	95	1	9	16		122
2011	0	1	103	0	15	12		131
2012	0	0	89	0	16	15		120
2013	0	0	70	0	9	13		92
2014	0	0	59	0	8	11		79
2015	0	0	104	11	8	21		145

Brill in Division 3.a								
Year	Belgium	Germany	Denmark	Netherlands	Norway	Sweden	BMS landings	Total
2016	0	0	125	7	8	28		168
2017	0	0	131	4	8	27		170
2018	0	0	90	9	9	17	< 0.5	125
2019	0	1	93	26	3	15	< 0.5	139
2020	0	1	112	29	3	17	< 0.5	162
2021	0	2	102	20	3	16	< 0.5	143
2022	0	1	57	7	2	9	< 0.5	76
2023*	0	1	62	4	2	10	< 0.5	78
2024*	0	1	57	9	2	9	< 0.5	78

* Preliminary.

Table 8c Brill in Subarea 4 and divisions 3.a and 7.d–e. **Divisions 7.d–e.** History of commercial landings; the official landings and below minimum size (BMS) landings are presented by area for each country participating in the fishery. All weights are in tonnes.

Brill in divisions 7.d–e									
Year	Belgium	Germany	Denmark	France	UK***	Ireland	Netherlands	BMS landings	Total
1950	11	0	0	0	48	0	0		59
1951	8	0	0	0	70	0	0		78
1952	6	0	0	0	66	0	0		72
1953	2	0	0	0	60	0	0		62
1954	1	0	0	0	59	0	0		60
1955	4	0	0	0	57	0	0		61
1956	2	0	0	0	58	0	0		60
1957	4	0	0	0	66	0	0		70
1958	2	0	0	0	65	0	0		67
1959	1	0	0	0	58	0	0		59
1960	6	0	0	0	46	0	0		52
1961	1	0	0	0	46	0	0		47
1962	3	0	0	0	52	0	0		55
1963	1	0	0	0	50	0	0		51
1964	0	0	0	0	60	0	0		60
1965	2	0	0	0	46	0	0		48
1966	0	0	0	0	53	0	0		53
1967	1	0	0	0	66	0	0		67
1968	3	0	0	0	54	0	0		57
1969	2	0	0	121	67	0	0		190
1970	10	0	0	0	49	0	0		59
1971	18	0	0	0	48	0	0		66
1972	20	0	0	0	52	0	3		75
1973	20	0	0	0	70	0	0		90
1974	25	0	0	0	56	0	0		81
1975	24	0	0	55	58	0	0		137
1976	41	0	0	170	74	0	0		285
1977	45	0	0	197	81	0	0		323
1978	58	0	3	227	123	0	0		411
1979	55	0	0	262	142	0	0		459
1980	64	0	2	213	120	3	0		402
1981	83	0	0	271	136	0	0		490
1982	105	0	0	225	156	0	1		487
1983	107	0	0	234	184	0	1		526
1984	114	0	0	226	191	0	0		531
1985	94	0	0	213	187	0	0		494
1986	115	0	0	183	158	0	0		456
1987	126	0	0	216	151	0	0		493

Brill in divisions 7.d–e									
Year	Belgium	Germany	Denmark	France	UK***	Ireland	Netherlands	BMS landings	Total
1988	112	0	0	202	138	0	0		452
1989	89	0	0	213	123	0	0		425
1990	99	0	0	249	195	0	0		543
1991	81	0	0	249	140	0	0		470
1992	82	0	0	223	158	0	0		463
1993	78	0	0	256	156	0	0		490
1994	88	0	0	227	175	0	0		490
1995	91	0	0	248	218	1	0		558
1996	105	0	0	240	263	0	0		608
1997	107	0	0	185	208	1	0		501
1998	70	0	0	196	183	0	2		451
1999*	97	0	0	na	140	0	3		240
2000	164	0	0	260	249	1	4		678
2001	212	0	0	256	268	0	2		738
2002	204	0	0	268	243	0	1		716
2003	217	0	0	287	253	1	1		759
2004	165	0	0	259	238	1	3		666
2005	138	0	0	267	204	0	2		611
2006	180	0	0	281	184	< 0.5	3		648
2007	205	0	0	325	212	0	1		743
2008	155	0	0	224	215	0	2		595
2009	131	0	0	278	183	0	1		594
2010	145	0	0	340	213	0	1		700
2011	141	0	0	304	220	0	0		665
2012	120	0	0	263	240	0	1		624
2013	142	0	0	238	224	< 0.5	1		605
2014	166	0	0	245	233	< 0.5	1		645
2015	162	0	0	278	257	0	2		698
2016	143	0	0	286	290	< 0.5	1		721
2017	135	0	0	276	249	< 0.5	2		663
2018	128	0	0	280	303	1	2		714
2019	103	0	0	287	267	0	3	< 0.5	660
2020	91	0	0	209	249	0	2	< 0.5	551
2021	84	0	0	235	228	0	3	< 0.5	549
2022	76	< 0.5	0	230	203	0	2	< 0.5	512
2023**	69	< 0.5	0	209	218	< 0.5	2	< 0.5	497
2024**	64	< 0.5	0	204	213	0	2	< 0.5	484

* French landings of brill in 1999 were provided as a total for all ICES areas (373 t) and not by ICES area.
** Preliminary.
*** UK includes the Channel Islands.

Summary of the assessment

Table 9 Brill in Subarea 4 and divisions 3.a and 7.d–e. Assessment summary. All weights are in tonnes. "Low" and "High" refer to 95% confidence intervals.

Year	Relative exploitable biomass			Landings*	Discards**	Relative fishing pressure		
	Low	B/B_{MSY}	High			Low	F/F_{MSY}	High
1950	1.01	1.58	2.5	827		0.145	0.23	0.37
1951	1.23	1.72	2.4	963		0.155	0.24	0.37
1952	1.32	1.78	2.4	922		0.157	0.24	0.35
1953	1.36	1.80	2.4	947		0.157	0.23	0.35
1954	1.37	1.78	2.3	867		0.153	0.22	0.33
1955	1.38	1.78	2.3	896		0.151	0.22	0.33
1956	1.39	1.79	2.3	842		0.146	0.21	0.31
1957	1.32	1.70	2.2	727		0.139	0.20	0.29

Year	Relative exploitable biomass			Landings*	Discards**	Relative fishing pressure		
	Low	B/B_{MSY}	High			Low	F/F_{MSY}	High
1958	1.32	1.70	2.2	791		0.140	0.20	0.30
1959	1.33	1.71	2.2	758		0.141	0.20	0.30
1960	1.39	1.78	2.3	907		0.150	0.22	0.32
1961	1.49	1.90	2.4	987		0.155	0.23	0.33
1962	1.48	1.89	2.4	921		0.153	0.22	0.33
1963	1.42	1.81	2.3	845		0.147	0.21	0.31
1964	1.35	1.74	2.2	776		0.142	0.21	0.30
1965	1.32	1.71	2.2	774		0.141	0.20	0.30
1966	1.34	1.75	2.3	813		0.141	0.20	0.30
1967	1.20	1.60	2.1	611		0.132	0.193	0.28
1968	1.16	1.56	2.1	777		0.145	0.21	0.31
1969	1.34	1.75	2.3	986		0.163	0.24	0.35
1970	1.27	1.66	2.2	810		0.168	0.25	0.36
1971	1.33	1.72	2.2	1289		0.199	0.29	0.43
1972	1.41	1.82	2.4	1205		0.21	0.32	0.47
1973	1.29	1.68	2.2	1226		0.23	0.34	0.51
1974	1.29	1.68	2.2	1450		0.25	0.38	0.58
1975	1.29	1.69	2.2	1568		0.27	0.42	0.65
1976	1.26	1.67	2.2	1735		0.30	0.47	0.74
1977	1.27	1.72	2.3	2159		0.33	0.54	0.88
1978	1.21	1.69	2.4	2047		0.34	0.57	0.96
1979	1.11	1.58	2.3	2036		0.34	0.58	1.00
1980	0.96	1.38	2.0	1538		0.33	0.56	0.97
1981	0.89	1.30	1.91	1775		0.34	0.59	1.04
1982	0.90	1.33	1.98	1861		0.36	0.64	1.14
1983	0.88	1.33	2.0	2064		0.38	0.69	1.27
1984	0.85	1.33	2.1	2161		0.39	0.74	1.41
1985	0.82	1.32	2.1	2316		0.39	0.77	1.51
1986	0.73	1.21	1.98	1774		0.36	0.71	1.41
1987	0.67	1.10	1.81	1571		0.34	0.67	1.31
1988	0.66	1.08	1.77	1648		0.35	0.67	1.30
1989	0.72	1.16	1.86	1839		0.35	0.68	1.29
1990	0.73	1.16	1.84	1593		0.35	0.65	1.21
1991	0.83	1.29	2.0	2251		0.39	0.72	1.33
1992	0.91	1.41	2.2	2419		0.42	0.79	1.48
1993	0.93	1.47	2.3	3141		0.47	0.91	1.79
1994	0.83	1.37	2.3	2626		0.46	0.93	1.88
1995	0.68	1.15	1.93	2143		0.45	0.90	1.83
1996	0.62	1.05	1.78	1966		0.44	0.89	1.79
1997	0.54	0.90	1.49	1564		0.44	0.85	1.66
1998	0.57	0.90	1.45	1866		0.47	0.89	1.68
1999	0.56	0.86	1.32	1677		0.49	0.89	1.60
2000	0.63	0.94	1.38	2328		0.56	1.00	1.79
2001	0.72	1.07	1.60	2409		0.58	1.04	1.87
2002	0.67	0.99	1.48	2107		0.54	0.97	1.72
2003	0.70	1.03	1.53	2234		0.53	0.94	1.68
2004	0.74	1.09	1.62	2071		0.50	0.88	1.57
2005	0.71	1.04	1.52	1904		0.46	0.81	1.42
2006	0.77	1.10	1.58	1963		0.43	0.75	1.29
2007	0.93	1.32	1.89	2142		0.41	0.70	1.22
2008	0.94	1.32	1.86	1781		0.37	0.62	1.06
2009	0.96	1.34	1.86	1902		0.38	0.63	1.05
2010	1.05	1.46	2.0	2321		0.40	0.68	1.15
2011	1.08	1.49	2.1	2292		0.40	0.67	1.12
2012	1.15	1.60	2.2	2276		0.38	0.64	1.07
2013	1.16	1.60	2.2	2088		0.36	0.60	1.00

Year	Relative exploitable biomass			Landings*	Discards**	Relative fishing pressure		
	Low	B/B_{MSY}	High			Low	F/F_{MSY}	High
2014	1.11	1.52	2.1	1920	217	0.34	0.56	0.93
2015	1.24	1.69	2.3	2470	207	0.37	0.61	1.02
2016	1.31	1.82	2.5	2444	216	0.37	0.63	1.06
2017	1.22	1.72	2.4	2207	210	0.37	0.62	1.06
2018	1.06	1.47	2.0	1956	343	0.36	0.61	1.03
2019	1.07	1.50	2.1	2147	392	0.35	0.61	1.04
2020	1.11	1.57	2.2	1872	182	0.32	0.55	0.95
2021	1.06	1.51	2.1	1553	62	0.29	0.50	0.86
2022	0.85	1.19	1.67	1072	34	0.25	0.41	0.69
2023	0.89	1.23	1.69	1080	82	0.23	0.38	0.63
2024	0.98	1.35	1.85	1206	38	0.23	0.38	0.63
2025	1.07	1.47	2.0					

* Official landings statistics 1950–2013, ICES estimated landings since 2014.
** Since 2019, discards include estimated below minimum size (BMS) landings. However, discards are not used in the model.

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