

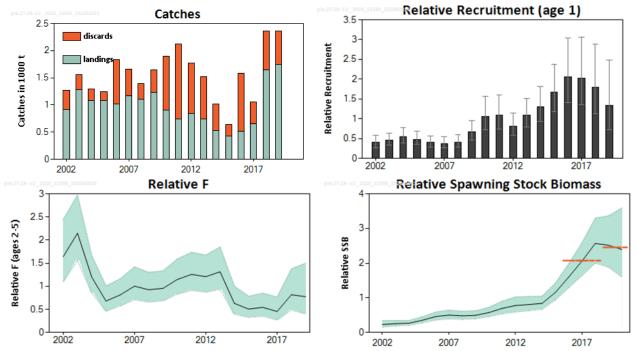
Plaice (Pleuronectes platessa) in subdivisions 24–32 (Baltic Sea, excluding the Sound and Belt Seas)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, catches in 2021 should be no more than 3297 tonnes.

Note: This advice is abbreviated due to the Covid-19 disruption. Last year's advice is attached as Annex 1.

Stock development over time



Plaice in subdivisions 24–32. Summary of stock assessment (catch weights in thousand tonnes). Recruitment, F, and SSB are relative to the mean of the time-series. The dashed lines in the SSB plot indicate the average values of the respective years. Relative recruitment, F, and SSB show confidence intervals (95%) in the plots.

Stock and exploitation status

Table 1 Plaice in subdivisions 24–32. State of the stock and the fishery relative to reference points.

	Fishing pressure					Stock size					
		2017	2018	2019				2018	2019	2020	
Maximum sustainable yield	F _{MSY}	•	•	•	Below proxy		MSY B _{trigger} proxy	•	•	•	Above proxy
Precautionary approach	F _{pa} , F _{lim}	lacksquare	lacksquare	•	Below possible reference points		B _{pa} , B _{lim}	•	•	•	Above possible reference points
Management plan	F _{MGT}	-	-	-	Not applicable		SSB_{MGT}	-	-	-	Not applicable

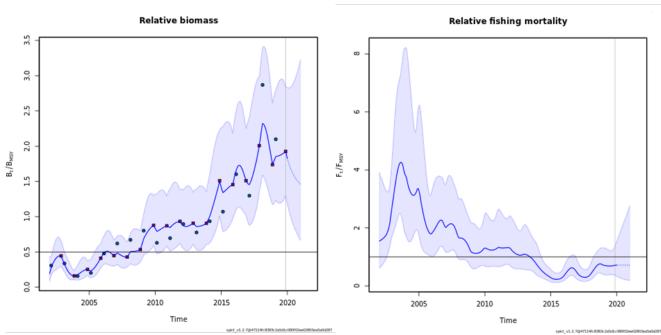


Figure 2 Plaice in subdivisions 24–32. SPiCT model results used for the evaluation of the stock and exploitation status (the proxy F_{MSY} and MSY $B_{trigger}$ are represented by horizontal lines in the right and left panels, respectively). The dots in the left panel represent Q1 and Q4 BITS indices.

Catch scenarios

The relative fishing mortality is below, and the relative stock size above, proxies of the MSY reference points; no additional precautionary buffer was, therefore, applied.

Table 2 Plaice in subdivisions 24–32. The catch scenarios table.*

Index A (2019, 2020)		2.45
Index B (2016, 2017, 2018)		2.10
Index ratio (A/B)		1.167
Uncertainty cap	not applied	-
Advised catch for 2020		2826 tonnes
Discard rate (average 2017–2019)		0.316
Precautionary buffer	not applied	-
Catch advice**		3297 tonnes
Projected landings corresponding to the advice		2255 tonnes
% change in advice ^		16.7%

^{*} The figures in the table are rounded. Calculations were carried out with unrounded inputs and computed values may not match exactly when calculated using the rounded figures in the table.

^{** [}Advised catch for 2020] × [index ratio].

[^] Advice 2021 relative to advice 2020.

Issues relevant for the advice

Table 3 Plaice in subdivisions 24–32. Catch and landings overview and calculation of catches by management area for plaice in subdivisions 21–23 and 24–32.

Basis	Catch 2019	Landings 2019	ICES stock advice 2021 (catch)		
Stock area-based	SDs 21–23	5388	4334	5176	
Stock area-based	SDs 24-32	2359	1741	3297	
Total advised catch, 2021 (SDs 21–32)				8473	
	SD 21	748	363		
Management area-based	SDs 22–23	4640	3971		
	SDs 22–32	6999	5712		
			Calculation		Result
Share of SD 21 of the total catch in SDs 21–2	12 in 2010	748 / 5388	0.130		
	23 111 2019	(catch in 2019 SI	0.139		
		5176 × 0.139			
Catch in 2021 for SD 21	(ICES stock advi	719			
Catch in 2021 for SDs 22–32	8473 – 719			7754	
Catch in 2021 101 305 22-32	(total advised ca	//54			
Chara of CD 21 of the total landings in CDs 2	363 / 4334	0.094			
Share of SD 21 of the total landings in SDs 2	1–23 III 2019	(landings in 2019	9 SD 21 / landings ir	2019 SDs 21-23)	0.084

History of the advice, catch, and management

 Table 4
 Plaice in subdivisions 24–32. ICES advice, TACs and ICES catch estimates. All weights are in tonnes.

	Tidice III Jabatvisions 2+ 32.	TOES davice, Tries	and rees caten estima	ces. 7 til Weights al	e iii toiiiies.	
Year	ICES advice	Landings corresp.	Catch corresponding	Agreed TAC**	Landings (ICES	Catches (ICES
icai	ICES advice	to advice*	to advice	Agreed TAC	estimates)	estimates)
2000	No advice	-		-	630	
2001	No advice	-		-	790	
2002	No advice	-		-	915	1270
2003	No advice	-		-	1281	1550
2004	No advice	-		-	1081	1300
2005	No advice	-		-	1081	1250
2006	No advice	-		-	1012	1830
2007	No advice	-		-	1167	1660
2008	No advice	-		-	1102	1400
2009	No advice	-		-	1226	1640
2010	No advice	-		-	903	1900
2011	No advice	-		3041	748	2130
2012	No increase in catches	-		2889	848	1770
2013	No more than 20% catch increase	≤ 900		3409	738	1520
2014	No more than 20% landings	< 1000		2400	F24	1020
2014	increase	≤ 1000		3409	534	1020
2015	No more than 20% wanted catches	≤ 886		3409	427	650
2015	increase	≥ 000		3409	427	630
2016	Precautionary approach		≤ 2156	4034	521	1580
2017	Precautionary approach		≤ 2587	7862	650	1058
2018	Precautionary approach		≤ 3104	7076	1644	2355
2019	Precautionary approach		≤ 3725	10122	1741	2359
2020	Precautionary approach		≤ 2826	6894		
2021	Precautionary approach	_	≤ 3297			

^{*}Prior to 2013 the advice was for subdivisions 22–32.

^{**}For subdivisions 22–32.

Summary of the assessment

Table 5 Plaice in subdivisions 24–32. Assessment summary. Weights are in tonnes. High and low refers to 95% confidence intervals.

	Rela	itive recruitme	ent	R	elative SSI	В			R	elative F	
Year	age 1	high	low	Relative SSB	high	low	Landings	Discards	ages 2–5	high	low
2002	0.40	0.58	0.27	0.23	0.35	0.151	915	353	1.64	2.4	1.10
2003	0.46	0.64	0.33	0.25	0.35	0.186	1281	271	2.1	3.0	1.55
2004	0.55	0.77	0.39	0.27	0.35	0.21	1081	214	1.20	1.67	0.86
2005	0.49	0.68	0.35	0.35	0.45	0.27	1081	166	0.68	1.01	0.46
2006	0.40	0.57	0.29	0.46	0.59	0.36	1012	818	0.81	1.16	0.57
2007	0.38	0.54	0.26	0.50	0.64	0.39	1167	491	1.00	1.42	0.71
2008	0.41	0.60	0.28	0.48	0.61	0.38	1102	294	0.92	1.30	0.66
2009	0.66	0.95	0.46	0.49	0.62	0.39	1226	418	0.95	1.33	0.68
2010	1.06	1.56	0.72	0.57	0.72	0.45	903	998	1.15	1.59	0.83
2011	1.09	1.61	0.75	0.70	0.90	0.54	748	1377	1.26	1.73	0.91
2012	0.81	1.14	0.58	0.78	1.02	0.59	848	917	1.21	1.68	0.87
2013	1.09	1.51	0.79	0.80	1.04	0.63	738	781	1.31	1.85	0.93
2014	1.30	1.82	0.93	0.84	1.04	0.67	534	481	0.63	1.00	0.40
2015	1.67	2.4	1.18	1.15	1.43	0.94	427	220	0.51	0.78	0.33
2016	2.1	3.0	1.40	1.60	1.98	1.29	521	1058	0.54	0.85	0.35
2017	2.0	3.1	1.35	2.1	2.6	1.64	650*	408	0.45	0.77	0.27
2018	1.80	2.9	1.13	2.6	3.3	2.00	1644*	711	0.82	1.38	0.48
2019	1.34	2.5	0.72	2.5	3.4	1.88	1741	617	0.77	1.50	0.40
2020				2.4	3.6	1.59					

^{*} Below minimum size (BMS) landings are included.

Sources and references

ICES. 2020. Baltic Fisheries Assessment Working Group (WGBFAS). ICES Scientific Reports, 2:45. http://doi.org/10.17895/ices.pub.6024.

Annex 1

ICES. 2019. Plaice (*Pleuronectes platessa*) in subdivisions 24–32 (Baltic Sea, excluding the Sound and Belt Seas). *In* Report of the ICES Advisory Committee, 2019. ICES Advice 2019, ple.27.24-32. https://doi.org/10.17895/ices.advice.4752.

Recommended citation: ICES. 2020. Plaice (*Pleuronectes platessa*) in subdivisions 24–32 (Baltic Sea, excluding the Sound and Belt Seas). *In* Report of the ICES Advisory Committee, 2020. ICES Advice 2020, ple.27.24-32. https://doi.org/10.17895/ices.advice.5871.

ICES Advice on fishing opportunities, catch, and effort Baltic Sea ecoregion Published 29 May 2019



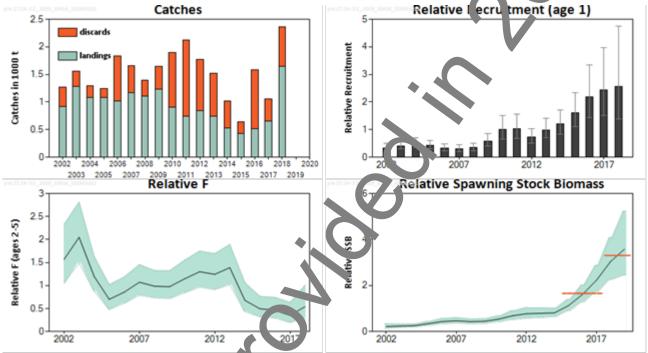
Plaice (Pleuronectes platessa) in subdivisions 24-32 (Baltic Sea, excluding the Sound and Belt Seas)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, catches in 2020 should be no more than 2826 nnes

Stock development over time

The assessment is indicative of trend only. The relative spawning-stock biomass (SSB) and relative recruitment have been increasing significantly since 2013. The relative fishing mortality has been declining in recer (years and relative F in 2018 is close to the lowest observed in the time-series.



Plaice in subdivisions 24–32. Sun, mary of stock assessment (catch weights in thousand tonnes). Recruitment, F, and SSB are relative to the mean of the me-series. The dashed lines in the SSB plot indicate the average values of the respective years. Relative peruiting ent, F, and SSB have confidence intervals (95%) in the plots.

Stock and exploitation status

ICES assesses the relative fishilar res are on the stock to be below $F_{MSY\ proxy}$ and the relative spawning stock size to be above MSY $B_{trigger\ proxy}$ (Figure 2).

Table 1 Plaice in subclisions 24–32. State of the stock and fishery relative to reference points.

Table 1	III UDU	13 2	+-32.3	tate o	the stock and hishery re	iati	ve to rere	rence p	onits.			
Fishing pressure							Stock size					
		2016	2017		2018			2017	2018		2019	
Maximum sustair auto- yield	F _{MSY}	•	•	0	Below proxy		MSY B _{trigger}	•	•	0	Above proxy	
Precau onary approach	F _{pa} ,F _{lim}	•	•	②	Below possible reference points		B _{pa} ,B _{lim}	•	•	0	Above possible reference points	
Management	F _{MGT}	-	_	_	Not applicable		SSB_{MGT}	-	-	_	Not applicable	

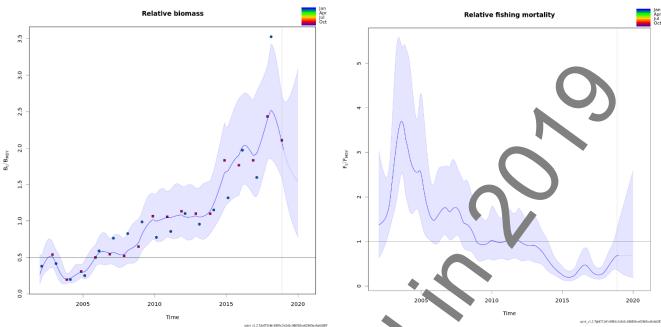


Figure 2 Plaice in subdivisions 24-32. SPiCT model results used for the e tion of the stock and exploitation status (the proxy FMSY and MSY Btrigger are represented by horizontal lines in the right and left panels, respectively). The dots in the left panel represent Q1 and Q4 BITS indices.

Catch scenarios

The ICES framework for category 3 stocks was applied (I ES, 202). The trends in relative SSB from the exploratory assessment were used as the index of stock development. It and vice is based on a comparison of the two latest index values (index A) with the three preceding values (index B), It altiplied by the recent advised catch (in this case catches in 2018 were used instead of the 3 year average because the stock has increased in recent years and higher catches than those in 2018 would be sustainable). The index is estimated o have increased by more than 20%, thus the uncertainty cap was applied to calculate the catch advice.

The relative fishing mortality is below, and the real ive stock size above, proxies of the MSY reference points; no additional precautionary buffer was, therefore, applied.

Plaice in subdivisions 24-22. The atch scenarios table.* Table 2

Index A (2018, 2019)		3.3
Index B (2015, 2016, 2017)		1.64
Index ratio (A/B)	•	2.012
Uncertainty cap	Applied	1.2
Total catch 2018		2355 tonnes
Discard rate (2018)		0.305
Precautionary buffer •	Not applied	-
Catch advice**		2826 tonnes
% change in advice ^		-24%

^{*} The figures in the table are rounded. Calculations were done with unrounded inputs and computed values may not match exactly when calculated using the bounded figures in the table.

The addice to mean is for a 20% increase in catch. This is numerically a decrease from last years advice; this is, however, due to the dex ratio being applied to the catch in 2018 rather than the advice for 2018.

ICES Advice 2019 2

^{**} Catch in 2015 × inc. ratio.

^ Advice 2020 r ative t advice 2019.

Basis of the advice

Table 3 Plaice in subdivisions 24–32. The basis of the advice.

Advice basis	Precautionary approach.
Management plan	The EU Multiannual Plan for the Baltic Sea (EU, 2016) takes bycatch of this species into unt.

Quality of the assessment

The trend in SSB from the the qualitative assessment is consistent over time, and considered a reasonable basis for advice.

Issues relevant for the advice

In recent years, catches have been well below the advice. The stock index is responding to that level of catch and exploitation. This is the rationale for applying the response in the index to recent catch, and not to the previous advised catches which were not taken. This is also why, while the advice this year is lower than last year, it represents a 20% increase on 2018 catches.

The management areas for plaice in the Baltic Sea (i.e. subdivisions (SDs) 21 and 1.2–32) are different from the stock areas (i.e. SDs 21–23 and 24–32). As for the plaice stock in SDs 21–23 (ICES, 2019a), the section provides an option for calculating TACs by management area, based on the catch distribution observed in 2018. The article ratio between SDs 21 and 22–23 in 2018 was used to calculate a split of the advised catches for the stock. SDs 21–23 for 2020. The advised catch for the stock in SDs 24–32 was added to the calculated catch for SDs 22–23; in this way plaice catches by management area were obtained that would be consistent with the ICES advice for the two stocks. The details of this calculation are presented in Table 4. This results in catches of no more than 3010 tonnes in SDs 21, and of 10 452 tonnes in SDs 22–32.

Landings of fish below the minimum conservation reference size (LuCRS) are very low (8.6 tonnes below minimum conservation reference size [BMS] reported in 2018), and discarding still takes place despite the fact that the landing obligation has been in place since 2017. The estimated discard arount of 720 tonnes in 2018 (approximately 30.5%) is based on observer data. ICES understands that this is not in scordance with the current regulations.

Table 4 Plaice in subdivisions (SDs) 24–32. Catch and andings overview and calculation of catches by management area for plaice in subdivisions 21–23 and 24–32

Bas	Basis		Landings 2018 (t)	ICES stock advice 2020 (catch)		
Stock area based	Stock area-based SDs 21–23		3459	10 636		
Stock area-based	SDs 24-32	2355	1644	2 826		
Total advised catch,	, 2020 (SDs 21-32)			13 462		
Managamant	SD 21	72	534			
Management	SDs 22-23	347-	2925			
area-based	SDs 22-32	5829	4569			
		Calculation	Results			
Share of SD 21 of	the total cate in	.372 t / 4846 t		0.283		
SDs 21–23 in 2018		(catch in 2018 SD 2	- 0.283			
C-+- - ! 2020 f CF		10 636 t * 0.283			2010	
Catch in 2020 for SI) Al	(ICES stock advice	3010			
Catab in 2020 for CE	20.21.22	13 462 t – 3010 t		10.150		
Catch in 2020 for SDs 22 32		(total advised catcl	tch SD 21)	10 452		
Share of SD 21 fth	he was andings in	534 t / 3459 t		0.454		
SDs 21–23 in 2′ 10		(landings in 2018 S	D 21 / landings in 2018 S	Ds 21–23)	0.154	

ICES Advice 2019 3

Reference points

Table 5Plaice in subdivisions 24–32. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
MSY approach			Relative value (B/B _{MSY}) from the SPiCT assessment mode	
	MSY B _{trigger proxy}	0.5*B _{MSY}	B _{MSY} is estimated directly from the SPiCT model and changes	l 📑 (2019b)
			when the assessment is updated.	
			Relative value (F/F_{MSY}) from the SPiCT assessment podel.	
	F _{MSY proxy}	1*F _{MSY}	F _{MSY} is estimated directly from the SPiCT model and clanges	ICES (2019b)
			when the assessment is updated.	
Precautionary	B _{lim}	Not defined		
approach	B _{pa}	Not defined		
	F _{lim}	Not defined		
	F _{pa}	Not defined		
Management	SSB _{mgt}	Not defined		
plan	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 6
 Plaice in subdivisions 24–32. Basis of the assessment and advice

ICES stock data category	3 (<u>ICES, 2018</u>).
Assessment type	Age-based analytical assessment, SAM, considere indica ive of trends only (ICES, 2019b).
Input data	Commercial catches; two survey indices (2002 _ 19 bits = Q1 and 2002 = 2018 BITS = Q4); averaged maturity
iliput uata	data (2008–2018 BITS-Q1); natural mortali es / e ked and assumed to be 0.2 (age 1) and 0.1 (age 2+).
Discards and bycatch	Used to provide advice. Discard estimates from the main fleets are included in the assessment from 2002
Discards and bycatch	onwards; however, the estimations of mean's years (2002–2005) are considered uncertain.
Indicators	SPiCT assessment.
Other information	This stock was last benchmarked it 2015 (1015, 2015).
Working group	Baltic Fisheries Assessment Working G. up (WGBFAS)

Information from stakeholders

There is no additional available information.



History of the advice, catch, and management

 Table 7
 Plaice in subdivisions 24–32. ICES advice, TACs and ICES catch estimates. All weights are in tonnes.

Plaice III subulvisions	24-32. ICES auvice	, TACS and ICES cal	ich estimates. An we	eignis are in torines) .
ICES advice	Landings corresp. to advice*	Catch corresponding to advice	Agreed TAC**	Landings (ICES estimates)	Catches (ICES timates)
No advice	-		-	630	
No advice	-		-	100	
No advice	-		-	20	1270
No advice	-		-	1280	1550
No advice	-		-	1 40	1300
No advice	-		-	108	1250
No advice	-		-	101	1830
No advice	-		-	1170	1660
No advice	-		-	1100	1400
No advice	-		-	1230	1640
No advice	-			900	1900
No advice	-		3 /41	750	2130
No increase in catches	-		286	850	1770
No more than 20% catch increase	≤ 900		3409	740	1520
No more than 20% landings increase	≤ 1000	C	3409	530	1020
No more than 20% wanted catches increase	≤ 886	٠,٥	3409	430	650
Precautionary approach		_ 3156	4034	530	1580
Precautionary approach		≤ 2587	7862	650	1058
Precautionary approach		≤ 3104	7076	1644	2355
Precautionary approach		≤ 3725	10 122		
Precautionary approach		≤ 2826			
	ICES advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No advice No increase in catches No more than 20% catch increase No more than 20% landings increase No more than 20% wanted catches increase Precautionary approach Precautionary approach Precautionary approach Precautionary approach Precautionary approach Precautionary	ICES advice Corresp. to advice* No advice - No increase in catches No more than 20% catch increase No more than 20% landings increase No more than 20% wanted catches increase Precautionary approach Precautionary	ICES advice	ICES advice	ICES advice

^{*}Prior to 2013 the advice was for subdivisions 22 32.

History of the catch and landing

 Table 8
 Plaic in sul livision 24–32. Catch distribution by fleet in 2018 as estimated by ICES.

Catch (2018)	Landings / wa	inted catch	Discards					
22FF tonnos	Active gears 76%	Passive gears 24%	Active gears 65%	Passive gears 35%				
2355 tonnes	1644 tor	nnes*	711 tonn	ies				

^{*}Includes 9 tonne BMS laneings

ICES Advice 2019 5

^{**}For subdivisions 22–32.

Plaice in subdivisions 24–32. History of commercial catch and landings; both the official and ICES estimated vilues are included. Landings are shown by area for each country participating in the fishery. All weights are in tonnes.

country participating in the fishery. All weights are in tonnes.													1						
Year/SD	De	Denmark Germ. Dem. Rep* Germany, FRG Poland Swede **					*				Finlan	d	Discards	BMS landings					
rear/3D	24 (+25)^	25	26+27	24	24 (+25)^	25	25 (+24)^^	26	24	. 5	<u> 1</u> 6	27	28	29	24	25	26		
1970	494	-			16	-			141										
1971	314	-			2	-			107										
1972	290	-			2	-			78										
1973	203	-		44	1	-	174	30											
1974	126	-		10	2	-	114	86	60										
1975	184	-		67	1	-	158	142	45										
1976	178	-		82	3	-	164	76	44										
1977	221	-		36	2	-	265	26	41										
1978	681	-		1198	3	-	633	. 90	32										
1979	2027	-		1604	7	-	555	224	113										
1980	1652	-		303	5	-	373	3	113										
1981	937	-		52	31	-	27.9	27	118										
1982	393	-		25	6	-	* 3	64	40	6		7	1						
1983	297	-		12	14	-		12	133	20		24	2						
1984	166	-		2	8	-	106		23	3		4	1						
1985	771	-		593	40	-	119	49	25	4		5	1						
1986	1019	-		372	7		171	59	48	7		9	1						
1987	794	-		142	16		188	5	68	10		12	1						
1988	323	-		16	1		9	1	49	7		9	1						
1989	149	-		5		1	10		34	5		6	1						
1990	100	-		1	1	<u></u>	6		50										
1991	112	-		-	9	-	2	1	5	2		2							
1992	74	-		-	74	-	6		3	1		1							
1993	66	-		-	5	-	4		4										
1994	159	-			1	-	43	4	4	7									
1995	343	-		7-	91	-	233	2	13	10	1								
1996	263	-		- 1	77	-	183	5	28	23	10	1							
1997	201	-		1	56	-	308	3	7	8		1							
1998	278	-		7	41	-	101	14	6	17		1							
1999	183	-		() -	46	-	145	1	5	10									
2000	161	-			37	-	408	3	9	12									
2001	173	-		-	43	-	549	3	9	13									
2002	153	159	0	-	137	7	429	3	10	15								353	
2003	326	299	2	-	68	25	480	10	16	51		0	0					271	
2004	167	239		-	50	13	292	8	6	37								214	
		_									_			_		_			

ICES Advice 2019

Year/SD	Denmark			Germ. Dem. Rep*	Germany	, FRG	Poland		Swea n**						Finland			Discards	BMS landings
	24 (+25)^	25	26+27	24	24 (+25)^	25	25 (+24)^^	26	24	25	2t	27	28	29	24	25	26		
2005	164	241		-	90	17	511	11	16	28		0	0					166	
2006	82	632		=	173	11	52	3	17	. 1			0					818	
2007	408	490	0		151	12			41	61		0	0					491	
2008	450	339		-	150	10	29	0	45	69			0					294	
2009***	581	359	< 1		96	21	42	0	43	9	0	< 1	0	0	3	< 1	0	418	
2010	345	295	1	-	66	13	93	8	4	61	1	0	0	0	2	< 1	0	998	
2011	291	233	< 1	-	109	6	37	1	33	36	< 1	0	0	0	1	1	0	1377	
2012	477	148	< 1		86	4	62	2	23	43	1	0	0	0	2	< 1	< 1	917	
2013	382	196	< 1	-	46	1	45	5	29	33	< 1	0	0	0	1	0	0	781	
2014	231	118	0	-	57	< 1	80	1	21	19	< 1	< 1	0	0	< 1	0	0	481	
2015	145	69	0	-	44	1	140	5	12	12	0	0	0	0	0	0	0	220	
2016	187	60	1	-	93	2	151	3	15	10	< 1	< 1	0	0	0	0	0	1060	
2017	124	68	< 1	-	142	1	2.0	3	5	11	< 1	0	0	0	0	0	0	408	7
2018	435	158	2		353	3	6.1	1	13	11	0	0	0	0	0	0	0	711	9

^{*} From October to December 1990 landings from Fed. Rep. of Germany are included.

ICES Advice 2019

^{**} For the years 1970–1981 and 1990 the Swedish catches from subdivisions 25–28 are included in Subdivision 24.

^{***} From 2009 onwards landings below 0.5 tonnes are given as < 1, landings ≥ 0.5 tonnes are given as 1. Zeros (0) represent true zero landings. Before 2009, a distinction between "true zero landings" and rounded zero landings (< 0.5 tonnes) is not possible.

[^] Values correspond to landings from subdivisions 24 and 25 combined until 2001 and cally from subdivision 24 afterwards.

^{^^} Values represent mainly landings from subdivision 25, but may also contain and landings from subdivision 24.



Summary of the assessment

Table 10 Plaice in subdivisions 24–32. Assessment summary. Weights are in tonnes. High and low refers to 95% confidence intervals.

	interv										
Year	Relative Recruitment (Age 1)	Relative Recruitment High	Relative Recruitment Low	Relative SSB	Relative SSB High	Relative SSB Low	Landings	Discards	Relative F (Ages 2-5)	Relau F Hi h	Relative F Low
2002	0.34	0.50	0.23	0.22	0.34	0.137	915	353	57	22	1.05
2003	0.41	0.57	0.29	0.24	0.32	0.172	1281	271	2.0	2.8	1.49
2004	0.50	0.72	0.35	0.25	0.33	0.195	1081	214	1.20	1.63	0.88
2005	0.42	0.60	0.30	0.34	0.44	0.26	1081	166	2.70	1.02	0.48
2006	0.34	0.48	0.24	0.44	0.57	0.34	1012	81	۰.٠ -	1.19	0.62
2007	0.31	0.44	0.21	0.47	0.60	0.36	1167	491	1.07	1.46	0.79
2008	0.35	0.50	0.24	0.43	0.55	0.34	1102	25	3	1.32	0.73
2009	0.59	0.86	0.41	0.44	0.56	0.35	1226	418	0.97	1.32	0.72
2010	1.00	1.50	0.66	0.54	0.68	0.42	903	998	1.14	1.55	0.84
2011	1.04	1.57	0.69	0.68	0.90	0.52	748	1377	1.30	1.75	0.97
2012	0.72	1.03	0.50	0.77	1.03	0.58	848	917	1.24	1.69	0.91
2013	0.99	1.40	0.70	0.79	1.03	0.61	7?	781	1.39	1.89	1.02
2014	1.20	1.71	0.84	0.81	1.02	0.65	4.	¥81	0.68	1.06	0.43
2015	1.62	2.3	1.12	1.12	1.40	0.91	427	220	0.49	0.76	0.32
2016	2.2	3.3	1.44	1.61	2.0	1.29	3 1	1058	0.47	0.74	0.29
2017*	2.4	4.0	1.50	2.2	2.9	1/73	650	498	0.35	0.63	0.196
2018*	2.6	4.8	1.38	3.0	4.1	2.3	1644	711	0.54	1.01	0.29
2019*				3.6	5.2	1.4					

^{*} From 2017 onwards BMS landings are included.

Sources and references

EU. 2016. Regulation (EU) 2016/1139 of the European P rliams at and of the Council of 6 July 2016 establishing a multiannual plan for the stocks of cod, herring and sprat the Baltic Sea and the fisheries exploiting those stocks, amending Council Regulation (EC) No 2187/2005 and ropesing Council Regulation (EC) No 1098/2007. Official Journal of the European Union, L 191. 15 pp. https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32016R1139

ICES. 2012. ICES Implementation of Advice for Data-limite. Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM:68. 42 pp.

ICES. 2015. Report of the Benchmark Worksh p on Plaice (WKPLE), 23–27 February 2015, ICES Headquarters, Copenhagen, Denmark. ICES CM 2015\ACOM:33. 200 pp.

ICES. 2018. Advice basis. In Report of the CES Advisory Committee, 2019. ICES Advice 2019, Book 1, Section 1.2. https://doi.org/10.17895/ices.pub.4503

ICES. 2019a. Plaice (*Pleuronectes platessa*) in s. bdivisions 21–23 (Kattegat, Belt Seas, and the Sound). *In* Report of the ICES Advisory Committee, 2019. ICES Adv. ce 2019, ple.27.21-23. https://doi.org/10.17895/ices.advice.4751

ICES. 2019b. Report of the Paltic Fisheries Assessment Working Group (WGBFAS). ICES Scientific Reports. 1:20. 651 pp. http://doi.org/10.17895/ic.es.puk/5256

Recommended citation: ICES. 2019. Plaice (*Pleuronectes platessa*) in subdivisions 24-32 (Baltic Sea, excluding the Sound and Belt Seas). *In* Report of the ICES Advisory Committee, 2019, ple.27.24-32. https://doi.org/10.17895/ices.advice.4752

ICES Advice 2019 8