Sea bass (*Dicentrarchus labrax*) in divisions 4.b–c, 7.a, and 7.d–h (central and southern North Sea, Irish Sea, English Channel, Bristol Channel, and Celtic Sea).

ICES advice on fishing opportunities

ICES advises that when the maximum sustainable yield (MSY) approach is applied, total removals in 2027 should be no more than 5 576 tonnes. This applies to the sum of the commercial and recreational catches (accounting for survival of released fish).

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

A proportion of the catch of the neighbouring Bay of Biscay sea bass stock is caught in divisions 4.b–c and 7.a.d–h. This should be taken into account when defining management actions to avoid exceeding the advice for either of the stocks.

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 spawning-stock size is above MSY $B_{trigger}$, B_{PA}, and B_{lim}.

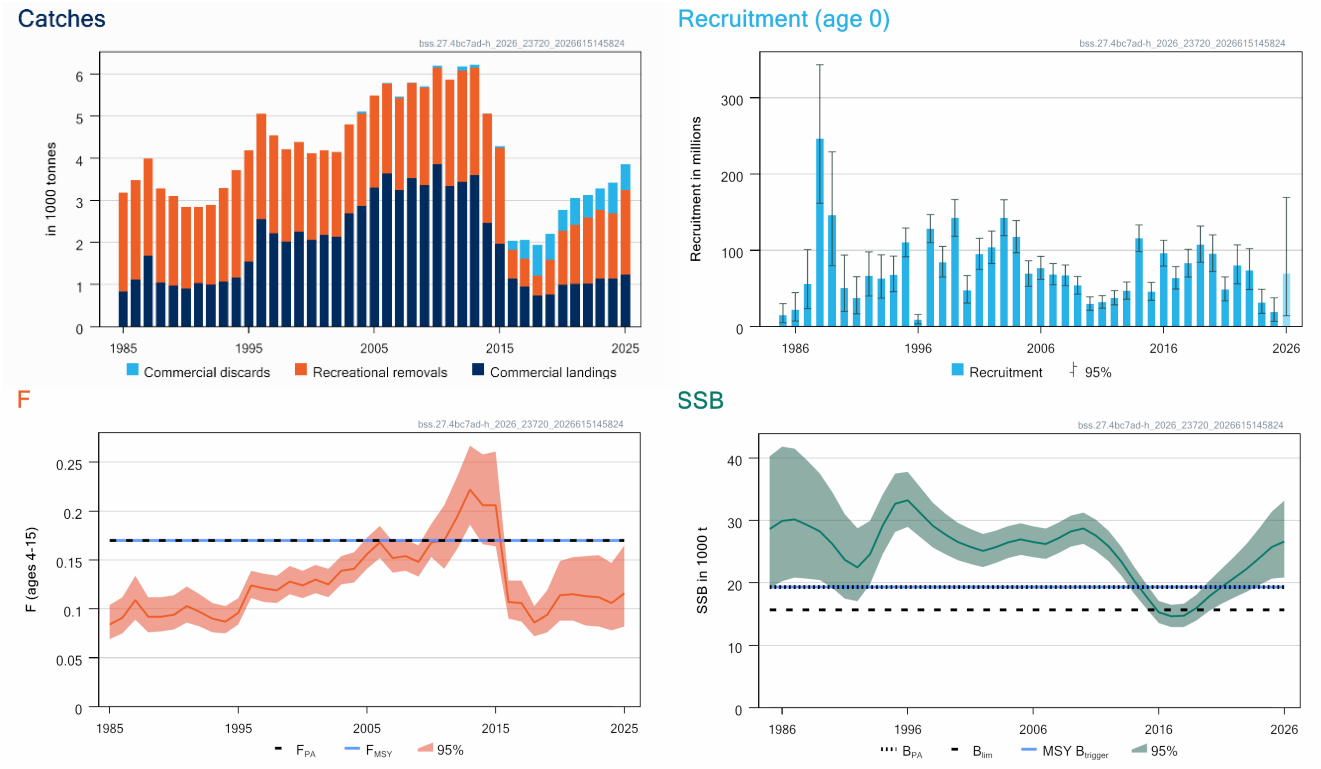

Figure 1 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Summary of the stock assessment. Recreational removals are model estimates, derived from survey estimates since 2010. Discard estimates are available since 2000. Fishing mortality (F) is shown for the combined commercial and recreational fisheries. The assumed recruitment value for 2026 is shaded in a lighter colour.

Catch scenarios

Table 1 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Assumptions made for the interim year and in the forecast.

Variable	Value	Notes
$F_{ages\ 4–15}$ (2026)	0.112	Average exploitation pattern (2023–2025), scaled to average $F_{ages\ 4–15}$ in 2023–2025.
Spawning-stock biomass (SSB; 2027)	26842	Short-term forecast; in tonnes
$R_{age\ 0}$ (2026)	69602	Median (log normal recruitment deviations are used in the stochastic forecast) of model estimates based on a stock-recruit relationship; in thousands
$R_{age\ 0}$ (2027)	69638	Median (log normal recruitment deviations are used in the stochastic forecast) of model estimates based on a stock-recruit relationship; in thousands
Total removals (2026)	3797	Short-term forecast fishing at F = 0.112; in tonnes
Total landings (2026)	1328	Assuming average F split 2023-2025; in tonnes
Discards (2026)	565	Assuming average F split 2023-2025; in tonnes
Recreational removals (2026)	1904	Assuming average F split 2023-2025; in tonnes
Recreational retained (2026)	1739	Assuming average F split 2023-2025; in tonnes
Recreational dead released (2026)	165	Assuming average F split 2023-2025; in tonnes

Table 2 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Annual catch scenarios. Weights are in tonnes.

Basis	Bss.27.4bc7ad-h sea bass stock													All sea bass caught in bss.27.4bc7ad-h stock area##						
	Total removals (2027)*	Commercial landings** (2027)	Recreational retained** (2027)	Commercial discards** (2027)	Recreational dead released** (2027)	Recreational survival released** (2027)	$F_{ages\ 4–15}$ total removals (2027)*	$F_{ages\ 4–15}$ commercial catch (2027)	$F_{ages\ 4–15}$ recreational removals (2027)	Spawning-stock biomass (SSB; 2028)	% SSB change^	% advice change^^	% Probability SSB < B_{lim} in 2028	Total removals (2027) *	Commercial landings (2027)	Recreational retained (2027)	Commercial discards (2027)	Recreational dead released (2027)	Recrational survival released (2027)	% advice change^^^
ICES advice basis																				
Maximum sustainable yield (MSY) approach: $F = F_{MSY}$	5576	1941	2593	796	246	4675	0.170	0.091	0.079	25041	-6.7	7.6	0	6841	2484	3288	796	273	5190	3.8
Other scenarios																				
F = 0###	0	0	0	0	0	0	0	0	0	29748	10.8	-100	0							
EU MAP#: F_{MSY}	5576	1941	2593	796	246	4675	0.170	0.091	0.079	25041	-6.7	7.6	0	6841	2484	3288	796	273	5190	3.8
EU MAP#: $F_{MSY\ lower}$	4814	1677	2240	685	212	4037	0.145	0.079	0.067	25680	-4.3	-7.1	0	6079	2220	2935	685	239	4552	-7.8
EU MAP#: $F_{MSY\ upper}$	5576	1941	2593	796	246	4675	0.170	0.091	0.079	25041	-6.7	7.6	0	6841	2484	3288	796	273	5190	3.8
$F = F_{PA}$	5576	1941	2593	796	246	4675	0.170	0.091	0.079	25041	-6.7	7.6	0	6841	2484	3288	796	273	5190	3.8
$SSB_{2028} = B_{lim}$	17042	5859	7850	2587	745	14152	0.65	0.35	0.3	15666	-42	230	53	18307	6402	8545	2587	772	14667	178
$SSB_{2028} = MSY\ B_{trigger} = B_{pa}$	12481	4316	5773	1844	548	10408	0.43	0.23	0.198	19339	-28	141	7.4	13746	4859	6468	1844	575	10923	109
$SSB_{2028} = SSB_{2027}$	3431	1197	1597	485	152	2880	0.101	0.054	0.046	26842	0	-34	0	4696	1740	2292	485	179	3395	-29
$F = F_{2026}$	3756	1310	1749	532	166	3153	0.112	0.061	0.051	26569	-1.02	-27	0	5021	1853	2444	532	193	3668	-24
Total removals advice (2027) = total removals advice (2026)	5180	1804	2409	738	229	4344	0.157	0.085	0.072	25373	-5.5	0	0	6445	2347	3104	738	256	4859	-2.2

* Includes commercial landings, recreational kept, commercial discards, and recreational dead released computed assuming 5% post-release mortality.

** Assumed projections based on recent proportions (2023–2025) of partial F of commercial and recreational removals.

^ SSB 2028 relative to SSB 2027.

^^ Advice value for 2027 relative to the advice value for 2026 for sea bass in divisions 4.b–c, 7.a, and 7.d–h stock (5 180 tonnes).

^^^ Advice value for 2027 relative to the advice value for 2026 for for all sea bass caught in 4.b–c, 7.a, and 7.d–h (6 590 tonnes).

EU multiannual plan (MAP ; EU, 2019).

All catch options for sea bass caught in divisions 4.b–c, 7.a, and 7.d–h assume that total removals for sea bass in divisions 8.a–b follow the MSY approach.

ICES cannot advise on measures to achieve non-zero catches for seabass caught in the stock area with F = 0.

Basis of the advice

Table 3 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. The basis of the advice.

Advice basis	Maximum sustainable yield (MSY) approach
Management plan	ICES is aware of the multiannual management plan (MAP) that has been adopted by the EU for this stock (EU, 2019) and that ICES considers to be precautionary. There is no agreed shared management plan between the EU and the UK for this stock, and ICES provides advice according to ICES MSY approach. Catch scenarios consistent with the MAP F_{MSY} ranges are provided.

Quality of the assessment

Recreational removals are a substantial component of total removals for this stock, are uncertain, and are re-estimated on an annual basis. The benchmark explored several scenarios with various levels and historical trends in the recreational removals and found that the stock status relative to the reference points was robust to these scenarios (ICES, 2025a).

Coinciding with the prohibition of the directed sea bass fishery since 2015, discard levels have increased. Discard estimates are not available for all fleets. This adds uncertainty to estimates of total removals.

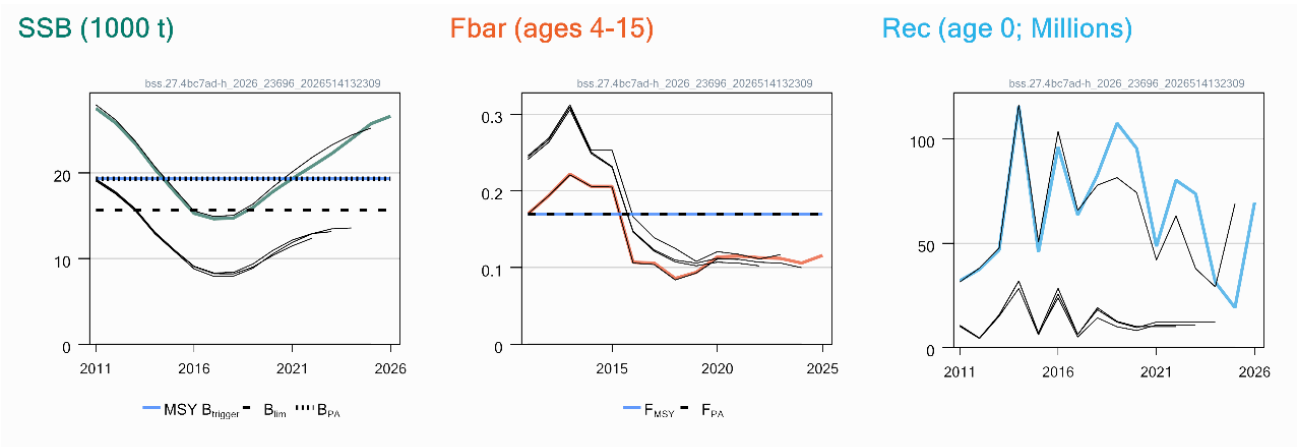

Figure 2 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Historical assessment results (recruitment assumptions and final-year spawning-stock biomass [SSB] estimate are included in each line). The reference points were revised in 2025 following a benchmark, and only assessment results from the last two years should be compared to the reference points indicated.

Issues relevant to the advice

Larger individuals from the neighbouring stock in divisions 8.a–b migrate to divisions 4.b–c and 7.a.d–h during the summer, where they mix with the 4.b–c and 7.a.d–h stock before returning to spawn in divisions 8.a–b in the winter. Thus, a proportion of catch of the Bay of Biscay sea bass stock is taken in divisions 4.b–c and 7.a.d–h. Of the sea bass caught in divisions 4.b–c and 7.a.d–h, it is assumed that 17.1% (average ratio calculated over the years 2023–2025) originate from the Bay of Biscay (ICES, 2026a).

For the bss.27.8ab and bss.27.4bc7ad–h stocks, the catch advice is given at stock level, but the catch corresponding to each area is provided in the catch scenario table in ICES (2026b). All catch scenarios for the divisions 4.b–c, 7.a and 7.d–h assume that fishing opportunities for the bss.27.8ab stock in 2027 correspond to the "ICES advice basis" scenario (EU MAP : F_{MSY}, 1265 tonnes). If fishing effort in divisions 4.b–c, 7.a and 7.d–h changes, catches of the bss.27.8ab stock may be higher or lower than this level.

Despite the inclusion of migration in the assessment the stock structure remains an issue, and connectivity with adjacent stocks is a source of uncertainty (ICES, 2025a).

Because of migration, management measures taken in divisions 4.b–c, 7.a, and 7.d–h will impact the stock in divisions 8.a–b.

There is no total allowable catch (TAC) for sea bass. The fishery is regulated by technical measures and national catch limits.

Reference points

Table 4 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Reference points, values, and their technical basis.

Framework	Reference point	Value	Technical basis	Source
Maximum sustainable yield (MSY) approach	MSY $B_{trigger}$	19 339	B_{PA}; in tonnes	ICES (2025b)
	F_{MSY}	0.170	F_{PA}; Stochastic simulations (EqSim)	ICES (2025b)
Precautionary approach	B_{lim}	15 666	Average of the lowest three values of spawning-stock biomass (SSB) in the time-series that have above median recruitment as estimated by ICES Working Group for the Celtic Seas Ecoregion (WGCSE) 2025 assessment; in tonnes	ICES (2025b)
	B_{PA}	19 339	$B_{lim} \times \exp(1.645 \times \sigma)$ with $\sigma \approx 0.128$, based on the σ from the terminal assessment year	ICES (2025b)
	F_{PA}	0.170	F_{P05}; the F that leads to SSB ≥ B_{lim} with 95% probability	ICES (2025b)
Management plan*	MAP MSY $B_{trigger}$	19 339	MSY $B_{trigger}$; in tonnes	EU (2019)
	MAP B_{lim}	15 666	B_{lim}; in tonnes	EU (2019)
	MAP F_{MSY}	0.170	F_{MSY}	EU (2019)
	MAP range F_{lower}	0.145	Consistent with ranges provided by ICES (2019), resulting in no more than 5% reduction in long-term yield compared with MSY	ICES (2025b), EU (2019)
	MAP range F_{upper}	0.170	Consistent with ranges provided by ICES (2019), resulting in no more than 5% reduction in long-term yield compared with MSY	ICES (2025b), EU (2019)

* EU multiannual plan (MAP) for the Western Waters and adjacent waters (EU, 2019).

Basis of the assessment

Table 5 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Basis of the assessment and advice.

ICES stock data category	1 (ICES, 2025b)
Assessment type	Age and length based analytical model SS3 used in the assessment and in the forecast (ICES, 2026b)
Input data	Commercial landings (international landings, ages, and length frequencies from catch sampling); commercial discards (bottom trawls and seines); recreational removals; four recruit surveys (UK Solent autumn survey [G9863], 1986–present, excluding 2010 and 2012; Fal and Hel [N6638], 2006-present; Nourdem Seine [G2035], 2017-present; Nourdem Douarnenez [G9735], 2018 and 2021-present); one bottom trawl survey split into two periods (Channel Groundfish Survey [G3425], 1988–2014 and 2015-present); one commercial tuning fleet (2001–present, excluding 2008); growth and maturity data from sampling of commercial catches and surveys; natural mortality (inferred from Bay of Biscay Lorenzen estimates for ages 0–4 then fixed at 0.24)
Discards and bycatch	Discards are included for some of the fleets in the model and forecast
Recreational	Used in the model and in the forecast
Indicators	None
Other information	Benchmarked in 2025 (ICES, 2025a)
Working group	Working Group for the Celtic Seas Ecoregion WGCSE

History of the advice, catch, and management

Table 6 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. ICES advice, official landings and ICES estimates of commercial landings, discards and recreational removals. Weights are in tonnes.

Year	ICES advice	Catch corresponding to advice*	Official commercial landings	ICES commercial landings in 4bc7ad-h	ICES commercial discards in 4bc7ad-h^	ICES recreational removals in 4bc7ad-h
2000	-	-	2124	2355	0	
2001	-	-	2236	2531	0	
2002	No increase in effort or F	-	2377	2587	0	
2003	No increase in effort or F	-	2891	3288	3	
2004	No increase in effort or F	-	3010	3398	50	
2005	-	-	3203	3863	1	
2006	-	-	3396	4153	9	
2007	-	-	3521	3879	34	
2008	-	-	3027	4216	10	
2009	-	-	4288	3951	26	
2010	-	-	4952	4455	51	1620
2011	-	-	4183	3839	7	
2012	No increase in catch	-	3982	3949	99	1720
2013	20% reduction in catches (average of the last three years)	< 6000**	4243	4054	68	
2014	36% reduction in commercial landings (20% reduction, followed by 20% precautionary reduction)	< 2707**	2816	2927	13	1625
2015	Maximum sustainable yield (MSY) approach	< 115***	2081	2271	35	
2016	MSY approach	≤ 541***	1300	1451	230	823
2017	Precautionary approach	0	1027	1161	445	809
2018	MSY approach	≤ 880^^^	931	948	728	583
2019	MSY approach	≤ 1806^^^	970	997	623	1004
2020	Management plan	1634–1946^^^	1175	1269	497	1557
2021	Management plan	2000 (range 1680–2000) ^^^	1261	1294	627	1605
2022	MSY approach	≤ 2216^^^	1278	1301	526	1699
2023	MSY approach	≤ 2542^^^	1478	1458	513	1774
2024	MSY approach	≤ 2432^^^	1418^^	1416	728	1725
2025	MSY approach	≤ 2620^^^	1513^^	1517	629	2362
2026	MSY approach	≤ 5180^^^				
2027	MSY approach	≤ 5576^^^				

* Advice prior to 2014 was provided for sea bass in the Northeast Atlantic.
** Commercial landings.
*** Total landings (commercial and recreational landings).
^ Incomplete for some fleets 2000–2008. Source for 2000–2015 is Intercatch. Discard rates for 2016–2025 based on French logbooks.
^^ Preliminary.
^^^ Includes commercial catch and recreational removals (taking mortality of released fish into account, estimated at approximately 5%).

History of the catch and landings

Table 7 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Commercial catch distribution by fleet in 2025 as estimated by ICES and estimated recreational removals of all sea bass caught in the bss.27.4bc7ad-h stock area.

Total removals	Commercial landings					Commercial discards	Recreational removals
4 508 tonnes	Lines	Bottom trawlers	Other gears	Fixed/drift nets	Danish seines	629 tonnes	2 362 tonnes
	39%	29%	9%	16%	7%		
	1 517 tonnes						

Table 8 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. History of the official commercial landings by country and ICES estimates of commercial landings. Weights are in tonnes.

Year	Belgium	Denmark	Germany	France	UK	Netherlands	Channel Is.	Total official	ICES landings in 4bc7ad-h
1985	0	0	0	620	105	0	18	743	994
1986	0	0	0	841	124	0	15	980	1319
1987	0	0	0	1226	123	0	14	1363	1980
1988	0	18	0	714	173	8	12	925	1239
1989	0	2	0	675	192	2	48	919	1161
1990	0	0	0	609	189	0	25	824	1063
1991	0	0	0	726	239	0	16	982	1227
1992	0	0	0	721	148	0	36	906	1186
1993	0	1	0	718	230	0	45	994	1255
1994	0	1	0	593	535	0	49	1178	1371
1995	0	1	0	801	708	0	69	1579	1835
1996	0	1	0	1703	563	8	56	2331	3022
1997	0	1	0	1429	561	1	74	2066	2620
1998	0	2	0	1363	488	48	79	1980	2390
1999	0	1	0	-	685	32	108	826	2670
2000	0	5	0	1522	407	60	130	2124	2355
2001	0	2	0	1619	458	77	80	2236	2531
2002	0	1	0	1580	627	96	73	2377	2587
2003	154	1	0	1903	586	163	84	2891	3288
2004	159	1	0	1883	617	191	159	3010	3398
2005	206	1	0	1937	512	327	220	3203	3863
2006	211	2	0	2116	574	308	185	3396	4153
2007	178	1	0	2075	713	376	178	3521	3879
2008	187	0	0	1506	791	380	163	3027	4216
2009	174	0	0	2904	698	395	118	4288	3951
2010	216	4	0	3441	735	399	158	4952	4455
2011	152	2	0	2688	791	395	154	4183	3839
2012	154	3	0	2492	891	376	67	3982	3949
2013	146	4	2	2868	803	370	50	4243	4054
2014	148	1	1	1322	1039	253	52	2816	2927
2015	40	0	0	1113	682	218	27	2081	2271
2016	23	0	1	545	551	156	24	1300	1451
2017	22	0	0	423	438	132	12	1027	1161
2018	18	0	0	297	432	172	11	931	948
2019	19	0	0	309	411	209	22	970	997
2020	24	0	0	387	526	223	15	1175	1269
2021	19	0	1	393	613	235	1	1261	1294
2022	24	1	0	404	619	229	1	1278	1301
2023	32	2	1	443	757	235	8	1478	1458
2024*	27	1	4	494	672	220	<1	1418	1416
2025*	36	0	2	510	740	225	0	1513	1517

* Preliminary official landings.

Table 9 Sea bass in divisions 4.b–c, 7.a, and 7.d–h . History of the ICES landings, discards and recreational removals attributed to the 4bc7ad and 8ab stocks. Weights are in tonnes.

Year	Total landings 4bc7ad-h (official)	ICES landings in 4bc7ad-h area	ICES discards in 4bc7ad-h	Total recreational removals in 4bc7ad-h*	ICES landings in 4bc7ad-h attributed to the 8ab stock	ICES discards in 4bc7ad-h attributed to the 8ab stock	Total recreational removals in 4bc7ad-h attributed to the 8ab stock*	ICES landings of the 4bc7ad-h stock	ICES discards of the 4bc7ad-h stock	ICES recreational removals of the 4bc7ad-h stock
1985	743	994			155			838		
1986	980	1319			205			1113		
1987	1363	1980			308			1671		
1988	925	1239			193			1045		
1989	919	1161			181			980		
1990	824	1063			166			898		
1991	982	1227			191			1035		
1992	906	1186			185			1002		
1993	994	1255			195			1060		
1994	1178	1371			214			1157		
1995	1579	1835			286			1549		
1996	2331	3022			471			2551		
1997	2066	2620			408			2211		
1998	1980	2390			372			2018		
1999	826	2670			416			2254		
2000	2124	2355			307	0		2048		
2001	2236	2531	0		364	0		2166	0	
2002	2377	2587	0		465	0		2123	0	
2003	2891	3288	3		596	0		2692	2	
2004	3010	3398	50		524	0		2874	50	
2005	3203	3863	1		562	0		3301	1	
2006	3396	4153	9		525	0		3628	8	
2007	3521	3879	34		632	0		3246	34	
2008	3027	4216	10		691	0		3525	10	
2009	4288	3951	26		586	0		3364	26	
2010	4952	4455	51	3388	592	0	687	3862	51	2701
2011	4183	3839	7	3445	507	0	708	3332	7	2737
2012	3982	3949	99	3595	506	0	729	3442	99	2866
2013	4243	4054	68	3446	467	0	708	3586	68	2738
2014	2816	2927	13	3396	470	0	689	2457	13	2707
2015	2081	2271	35	2718	310	0	566	1961	34	2152
2016	1300	1451	230	823	312	0	168	1139	229	655
2017	1027	1161	445	809	220	0	165	941	446	644
2018	931	948	728	583	210	0	120	737	728	463

Year	Total landings 4bc7ad-h (official)	ICES landings in 4bc7ad-h area	ICES discards in 4bc7ad-h	Total recreational removals in 4bc7ad-h*	ICES landings in 4bc7ad-h attributed to the 8ab stock	ICES discards in 4bc7ad-h attributed to the 8ab stock	Total recreational removals in 4bc7ad-h attributed to the 8ab stock*	ICES landings of the 4bc7ad-h stock	ICES discards of the 4bc7ad-h stock	ICES recreational removals of the 4bc7ad-h stock
2019	970	997	623	1004	231	0	204	766	623	800
2020	1175	1269	497	1557	285	0	317	984	497	1240
2021	1261	1294	627	1605	281	0	326	1013	626	1279
2022	1278	1301	526	1699	281	0	346	1021	526	1353
2023	1478	1458	513	1774	316	0	361	1142	513	1413
2024	1418	1416	728	1725	275	0	351	1140	728	1374
2025	1513	1517	629	2362	285	0	480	1232	629	1882

* Based on recreational surveys

Summary of the assessment

Table 10 Sea bass in divisions 4.b–c, 7.a, and 7.d–h. Assessment summary. Weights are in tonnes and recruitment in thousands. Landings and discards are ICES estimates, which are used as assessment inputs. All other columns are assessment model estimates. "High" and "low" refer to 95% confidence intervals.

Year	Recruitment age 0			Spawning-stock biomass (SSB)			Total $F_{ages\ 4–15}$			$F_{ages\ 4–15}$ commercial catch	$F_{ages\ 4–15}$ recreational removals	Commercial landings (with migration reallocation)	Commercial discards*	Recreational removals**
	Low	Value	High	Low	Value	High	Low	Value	High					
1985	5011	14921	30061	19173	28609	40289	0.069	0.084	0.104	0.025	0.059	838	0	2345
1986	7160	21847	44485	20260	29928	41831	0.075	0.091	0.112	0.033	0.058	1113	0	2374
1987	23551	55855	101058	20846	30164	41507	0.089	0.109	0.134	0.049	0.060	1671	0	2322
1988	161697	246317	343285	20670	29264	39601	0.076	0.092	0.112	0.032	0.060	1045	0	2237
1989	79839	146155	229110	20445	28256	37526	0.077	0.092	0.112	0.034	0.058	980	0	2113
1990	19816	50132	93666	19186	26226	34530	0.079	0.094	0.114	0.037	0.057	898	0	1937
1991	16701	37303	65425	17450	23677	30992	0.086	0.103	0.123	0.045	0.058	1035	0	1807
1992	40073	66394	97816	17060	22481	28747	0.082	0.097	0.115	0.039	0.058	1002	0	1894
1993	37250	62987	94011	19780	24582	29948	0.076	0.090	0.106	0.031	0.059	1060	0	2229
1994	45612	67583	92413	24556	29142	34130	0.075	0.087	0.103	0.029	0.058	1157	0	2552
1995	91469	110186	129165	28162	32673	37515	0.084	0.096	0.111	0.038	0.058	1549	0	2636
1996	3524	8636	15886	28966	33237	37792	0.111	0.124	0.139	0.067	0.057	2551	0	2504
1997	109952	128397	146784	27322	31204	35331	0.107	0.121	0.136	0.064	0.057	2211	0	2322
1998	64940	84463	105094	25670	29156	32851	0.106	0.119	0.134	0.062	0.057	2018	0	2198
1999	118389	142316	166552	24582	27749	31093	0.115	0.128	0.144	0.071	0.057	2254	0	2128
2000	30811	47545	66843	23619	26540	29615	0.111	0.124	0.139	0.067	0.057	2048	0	2072
2001	74946	94930	115751	23024	25763	28639	0.116	0.130	0.145	0.074	0.056	2166	0	2010
2002	82635	103511	125133	22526	25122	27843	0.112	0.125	0.141	0.070	0.055	2123	0	2026
2003	119121	142564	166251	23177	25713	28362	0.125	0.139	0.154	0.083	0.056	2692	2	2115
2004	96672	117620	138978	23973	26485	29102	0.127	0.141	0.158	0.083	0.056	2874	50	2187
2005	52837	69064	86256	24483	26967	29552	0.141	0.156	0.173	0.100	0.056	3301	1	2181
2006	61881	76767	92105	24110	26540	29067	0.152	0.168	0.185	0.111	0.057	3628	8	2150
2007	54743	68451	82636	23834	26225	28709	0.137	0.152	0.169	0.094	0.056	3246	34	2185
2008	53573	66924	80732	24752	27152	29641	0.139	0.154	0.171	0.098	0.056	3525	10	2261
2009	42507	53854	65679	25810	28249	30777	0.133	0.148	0.165	0.092	0.056	3364	26	2316
2010	21313	29749	38998	26245	28711	31266	0.153	0.168	0.187	0.109	0.057	3862	51	2290
2011	24100	32085	40627	25076	27546	30112	0.141	0.170	0.206	0.102	0.068	3332	7	2525

Year	Recruitment age 0			Spawning-stock biomass (SSB)			Total $F_{ages\ 4–15}$			$F_{ages\ 4–15}$ commercial catch	$F_{ages\ 4–15}$ recreational removals	Commercial landings (with migration reallocation)	Commercial discards*	Recreational removals**
	Low	Value	High	Low	Value	High	Low	Value	High					
2012	28444	37497	47132	23461	25857	28350	0.161	0.194	0.235	0.113	0.076	3442	99	2640
2013	35823	46769	58359	21178	23449	25820	0.186	0.222	0.267	0.134	0.083	3586	68	2565
2014	98398	115817	133258	18351	20470	22691	0.166	0.206	0.258	0.109	0.097	2457	13	2591
2015	34329	45717	57903	15905	17826	19846	0.164	0.206	0.261	0.103	0.099	1961	34	2290
2016	79350	96067	113066	13552	15283	17109	0.090	0.107	0.129	0.057	0.028	1139	229	675
2017	49236	63512	78532	12908	14648	16492	0.087	0.106	0.129	0.046	0.027	941	446	668
2018	64942	82715	101289	12921	14740	16673	0.072	0.086	0.103	0.032	0.017	737	728	469
2019	84297	107550	131872	13967	15982	18126	0.076	0.094	0.119	0.034	0.030	766	623	814
2020	72228	95440	120174	15480	17810	20300	0.088	0.114	0.149	0.041	0.049	984	497	1294
2021	33704	48538	65064	16645	19346	22247	0.088	0.115	0.153	0.038	0.049	1013	626	1408
2022	56071	80239	107077	17640	20783	24187	0.083	0.113	0.154	0.037	0.053	1021	526	1571
2023	48657	73676	102260	18583	22259	26279	0.082	0.112	0.155	0.040	0.052	1142	513	1626
2024	17256	31345	48906	19638	23971	28763	0.078	0.106	0.147	0.035	0.045	1140	728	1550
2025	6765	19145	37707	20671	25743	31418	0.082	0.116	0.165	0.036	0.056	1232	629	2001
2026	14088^	69602^	169326^	20855	26630	33184								

* Incomplete for some fleets 2002–2008.

** Recreational removals are model estimates.

^ Estimated from stock–recruitment relationship.

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