

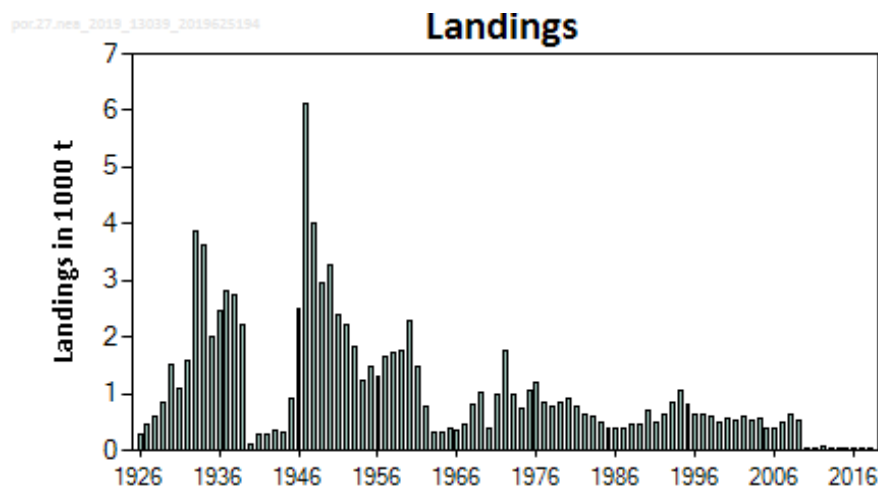
## Porbeagle (*Lamna nasus*) in subareas 1–10, 12, and 14 (the Northeast Atlantic and adjacent waters)

### ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, there should be zero catch in each of the years 2020–2023.

### Stock development over time

Landings have declined since the late-1940s and were relatively stable from the mid-1960s until 2010. Since 2010, landings by EU vessels have not been allowed.



**Figure 1** Porbeagle in the Northeast Atlantic. Available landings data (tonnes).

### Stock and exploitation status

ICES cannot assess the stock and exploitation status relative to maximum sustainable yield (MSY) and precautionary (PA) reference points, because the reference points are undefined.

**Table 1** Porbeagle in the Northeast Atlantic. State of the stock and fishery relative to reference points.

		Fishing pressure			Stock size					
		2016	2017	2018	2016	2017	2018			
Maximum sustainable yield	$F_{MSY}$	?	?	?	Unknown	$MSY B_{trigger}$	?	?	?	Unknown
Precautionary approach	$F_{pa}, F_{lim}$	?	?	?	Unknown	$B_{pa}, B_{lim}$	?	?	?	Unknown
Management plan	$F_{MGT}$	—	—	—	Not applicable	$B_{MGT}$	—	—	—	Not applicable
Qualitative evaluation	-	?	?	?	Unknown	-	?	?	?	Unknown

### Catch scenarios

The ICES framework for category 6 was applied (ICES, 2012). For stocks without information on abundance or exploitation, ICES considers that a precautionary reduction of catches should be implemented unless there is ancillary information clearly indicating that the current level of exploitation is appropriate for the stock.

Discarding is known to take place, but ICES cannot quantify the corresponding catch. Discard survival, which may occur in some métiers, has also not been estimated.

**Table 2** Porbeagle in the Northeast Atlantic. Basis for the catch options.

Recent advised catch for 2016–2019 (issued in 2015)	0 tonnes	
Discard rate	Unknown	
Precautionary buffer	Not applied (not applicable)	-
Catch advice	0 tonnes	
% Advice change *	0%	

\* Advice value 2020–2023 relative to the advice value for 2016.

The advice for 2020–2023 has not changed from the previous advice.

### Basis of the advice

**Table 3** Porbeagle in the Northeast Atlantic. The basis of the advice.

Advice basis	Precautionary approach.
Management plan	ICES is not aware of any agreed precautionary management plan for porbeagle in this area.

### Quality of the assessment

There is no assessment for this stock.

### Issues relevant for the advice

In 2010, the total allowable catch (TAC) was reduced to zero, and EU vessels were prohibited from landing porbeagle from international waters. It has been prohibited for EU vessels to land porbeagle from all waters since 2015 (EU, 2019). This species has been listed in Appendix II of CMS since 2008, and in Appendix II of CITES since 2014.

The low productivity and aggregating nature of this species makes it particularly vulnerable to overexploitation.

Recently initiated industry–scientific surveys are developing time-series aimed at providing stock indices in the future.

This species is taken by recreational fishers, but catches and post-release survival are unquantified. This species was formerly targeted in longline fisheries and it is also a bycatch species in gillnet and pelagic trawl fisheries.

Discarding is known to occur but has not been fully quantified. Discard survival has not been estimated but it is likely to be low for netters and trawlers. The inclusion of porbeagle in the EU prohibited species has increased the discards at sea.

### Reference points

No reference points have been defined for this stock.

### Basis of the assessment

**Table 4** Porbeagle in the Northeast Atlantic. The basis of the assessment.

ICES stock data category	6 ( <a href="#">ICES, 2018</a> ).
Assessment type	No assessment (ICES, 2019).
Input data	Landings.
Discards and bycatch	Unquantified, but likely to be high (ICES, 2019).
Indicators	None.
Other information	Tagging data; CPUE for the French target longline fishery; French industry–science longline survey in 2018 and 2019.
Working group	Working Group on Elasmobranch Fishes ( <a href="#">WGEF</a> ).

### Information from stakeholders

There is no additional available information.

### History of advice, catch, and management

**Table 5** Porbeagle in the Northeast Atlantic. History of ICES advice, the agreed TAC, and ICES estimates of landings. Weights are in tonnes.

Year	ICES advice	Catch corresp. to advice	Agreed TAC	ICES landings
2005	No fishery			343
2006	No new advice, same as for 2005	0		289
2007	No target fishery, prevent bycatch	0		431
2008	No new advice, same as for 2007	0	581	313
2009	No target fishery, prevent bycatch	0	436	333
2010	No new advice, same as for 2009	0	0	20
2011	Catch = 0	0	0	17
2012	No new advice, same as for 2011	0	0	48
2013	Catch = 0	0	0	22
2014	No new advice, same as for 2013	0	0	7
2015	No new advice, same as for 2014	0		19
2016	Precautionary approach, fishing mortality minimized and no targeted fisheries	0		14
2017	Quadrennial advice	0		10
2018	Quadrennial advice	0		7
2019	Quadrennial advice	0		
2020	Precautionary approach	0		
2021	Same advice as for 2020	0		
2022	Same advice as for 2020	0		
2023	Same advice as for 2020	0		

### History of catch and landings

The distribution of this stock extends into the NEAFC Regulatory Area, but the proportional split of catches cannot be determined.

**Table 6** Porbeagle in the Northeast Atlantic. Catch distribution by fleet in 2018 as estimated by ICES.

Catch (2018)	Commercial landings	Commercial discards *			Recreational catches
Unknown	Trawls and nets	Bottom trawl 65%	Nets 30%	Pelagic trawls 5%	Unknown
	7 tonnes	88 tonnes			

\* Based on French data.

**Table 7** Porbeagle in the Northeast Atlantic. History of commercial landings (ICES estimates) is presented by country participating in the fishery. All weights are in tonnes.

Year	Denmark	Norway	Spain	UK (Scot)	Total
1926		279			279
1927		457			457
1928		611			611
1929		832			832
1930		1505			1505
1931		1106			1106
1932		1603			1603
1933		3884			3884
1934		3626			3626
1935		1993			1993
1936		2459			2459
1937		2805			2805
1938		2733			2733
1939		2213			2213
1940		104			104
1941		283			283
1942		288			288
1943		351			351
1944		321			321
1945		927			927
1946	1400	1088			2488
1947	3300	2824			6124
1948	2100	1914			4014
1949	1700	1251			2951
1950	1900	1358	4		3262
1951	1600	778	3		2381
1952	1600	606	3		2209
1953	1100	712	4		1816
1954	651	594	1		1246
1955	578	897	2		1477
1956	446	871	1		1318
1957	561	1097	3		1661
1958	653	1080	3	7	1743
1959	562	1183	3	9	1757
1960	362	1929	2	10	2303
1961	425	1053	5	9	1492
1962	304	444	7	20	775
1963	173	121	3	17	314
1964	216	89	6	5	316
1965	165	204	4	8	381
1966	131	218	9	6	364
1967	144	305	8	7	464
1968	111	677	11	7	806
1969	100	909	11	3	1023
1970	124	269	10	5	408

**Table 7 (cont.)** Porbeagle in the Northeast Atlantic. History of commercial landings (ICES estimates) is presented by country participating in the fishery.

Year	Denmark	Faroe Islands	France	Germany	Iceland	Ireland	Netherlands	Norway	Portugal	Spain	Sweden	UK (E,W, NI)	UK (Scot)	Japan	Discards *	Total
1971	311	1	550					111		11			7			991
1972	523		910					293		10		4	15			1755
1973	158	5	545	6	2			230		12		14	13			985
1974	170		380	3	2			165		9		15				744
1975	265		455	4	4			304		12	3	16				1063
1976	233	1	655		3			259		9		25				1185
1977	289	5	450		3			77		10						834
1978	112	9	550					76		11	5					763
1979	72	25	650		1			106		8	1	1				864
1980	176	8	640		1			84		12	8	3				932
1981	158	6	500		1			93		12	5	2				777
1982	84	17	480		1			33		14	6	1				636
1983	45	12	490		1			33		28	5	2				616
1984	38	14	300		1			97		20	9	5				484
1985	72	12	196		1			80		23	10	12		NA		406
1986	114	12	208		1			24		26	8	6		NA		399
1987	56	33	233		1			25	3	30	5	3		NA		389
1988	33	14	341		1			12	3	61	3	3		NA		471
1989	33	14	327		1			27	2	40	3	15		NA		462
1990	46	14	546					45	2	26	2	9		NA		690
1991	85	7	306					35	1	46	2			NA		482
1992	80	20	466		1			43	0	15	4			NA		629
1993	91	76	642	1	3			24	1	21	3			NA		862
1994	93	48	824		4			26	1	49	2			NA		1047
1995	86	44	644		5			28	1	17	2	0		NA		827
1996	72	8	450		3			31	1	59	1			3		628
1997	69	9	495		2			19	1	35	1			2		633
1998	85	7	435	2	3			28	1	49	1	1		NA		612
1999	107	10	273	0	3	8		34	0	56	1	6		NA		498
2000	73	13	361	17	2	2	0	23	15	49	1	7		NA		563
2001	76	8	339	1	4	6		17	4	68	1	10	1	NA		535
2002	42	10	439	3	2	3		14	11	65		7		NA		596
2003	21	14	394	5	0	11	0	19	4	44		25		NA		537
2004	20	5	374	6	1	18		24	57	19	5	24		NA		553
2005	4	19	246	5	0	3	0	11	10	21	0	24		NA		343
2006	3	21	185	0	1	4		27	6	31		11		NA		289
2007	2	13	347		0	8	0	10	2	22	1	26		NA		431
2008	2	11	221	0	1	7	0	12	0	45	0	12	1	NA		313
2009	4	4	299	0	1	0	0	10	0	3	0	10	0	NA		333
2010	0	0	7	0	1	0	0	12	0	0	0	0	0	NA		20
2011	2	0	2	0	1	0	0	10	0	2	0	0	0	NA		17
2012	3	0	27	0	2	0	0	17	0	0	0	0	0	0		48
2013	0	0	13	0	1	0	0	8	0	0	0	0	0	0		22
2014	0	0	2	0	0	0	0	5	0	0	0	0	0	0		7
2015	0	11	3	0	<1	0	<1	4	0	0	0	0		NA		19
2016	<1	5	<1	0	2	0	0	6	0	0	0	0		NA		14
2017		2	1	0	1	0	0	6	0	0	0	0		NA		10
2018	0	0	1	0	1	0	0	3	0	2	0	0		NA	88	7

\*Based on French data.

## Summary of the assessment

There is no assessment for this stock.

## Sources and references

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