

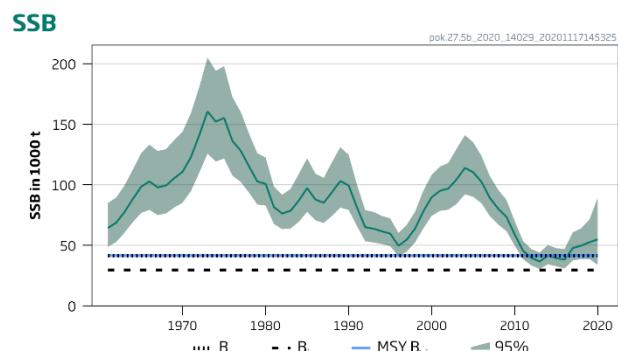
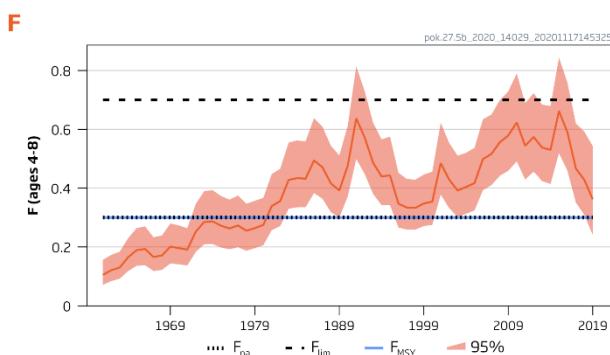
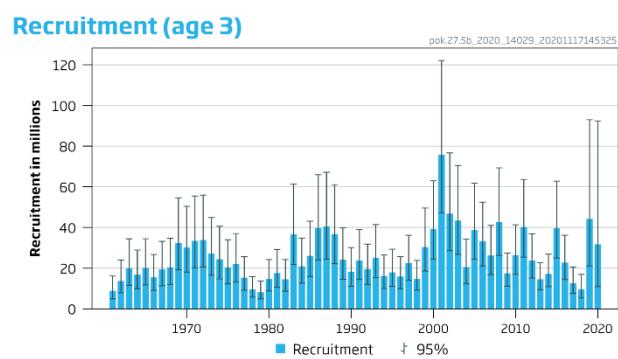
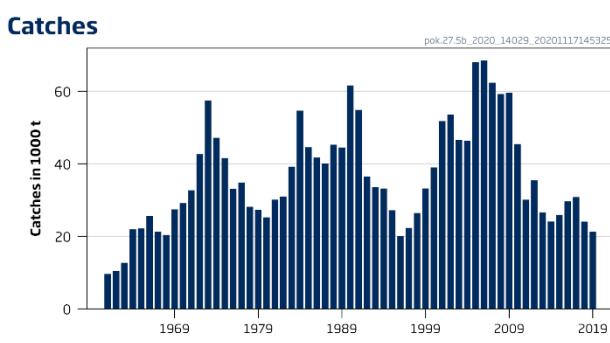
## Saithe (*Pollachius virens*) in Division 5.b (Faroes grounds)

### ICES advice on fishing opportunities

ICES advises that when the MSY approach is applied, catches in 2021 should be no more than 27 368 tonnes. ICES is not in a position to advise on the corresponding level of fishing effort.

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

### Stock development over time



**Figure 1** Saithe in Division 5.b (Faroes grounds). Summary of the stock assessment with 95% confidence intervals. Catches, recruitment (R), fishing mortality (F), and spawning-stock biomass (SSB).

### Stock and exploitation status

**Table 1** Saithe in Division 5.b (Faroes grounds). State of the stock and fishery relative to reference points.

		Fishing pressure			Stock size		
		2017	2018	2019	2018	2019	2020
Maximum sustainable yield	$F_{MSY}$	✗	✗	✗ Above	✓	✓	✓ Above trigger
Precautionary approach	$F_{pa}, F_{lim}$	○	○	○ Increased risk	✓	✓	✓ Full reproductive capacity
Management plan	$F_{MGT}$	—	—	— Not applicable	—	—	— Not applicable

## Catch scenarios

**Table 2** Saithe in Division 5.b (Faroes grounds). Assumptions made for the interim year and in the forecast. All weights are in tonnes.

Variable	Value	Notes
$F_{\text{ages } 4-8}$ (2020)	0.34	Based on catch estimate of 23659 tonnes in 2020.
$\text{SSB}_{2021}$	73012	Based on catch estimate of 23659 tonnes in 2020 and corresponding $F = 0.34$ ; in tonnes.
$R_{\text{age } 3}$ (2021 and 2022)	32527	Median of resampled estimates 2015–2019; in thousands.
Landings (2020)	23659	Catch estimate for 2020 based on catch statistics to the end of September adjusted for the entire year; in tonnes.
Discards (2020)	0	Discarding is considered negligible; in tonnes.

**Table 3** Saithe in Division 5.b (Faroes grounds). Annual catch scenarios. All weights are in tonnes.

Basis	Total catch (2021)	$F_{\text{total}}$ (2021)	$\text{SSB}_{2022}$	% SSB change *	% Advice change **
ICES advice basis					
MSY approach: $F_{\text{MSY}} = 0.30$	27368	0.30	89455	+23	-23
Other scenarios					
$F = 0$	0	0	113919	+56	-100
$F = F_{2020}$	30693	0.34	86258	+18	-14
$F = F_{\text{pa}}$	27368	0.3	89455	+23	-23
$F = F_{\text{lim}}$	54343	0.7	65354	-10	+52

\*  $\text{SSB}_{2022}$  relative to  $\text{SSB}_{2021}$  (73 012 tonnes).

\*\* Advice value for 2021 relative to the advice value for 2020 (35 636 tonnes).

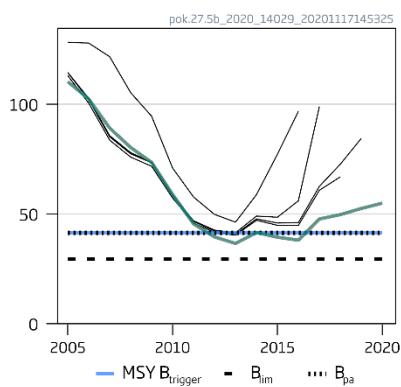
The catch advice for 2021 is lower compared to the advice for 2020 due to a downwards revision in biomass.

## Quality of the assessment

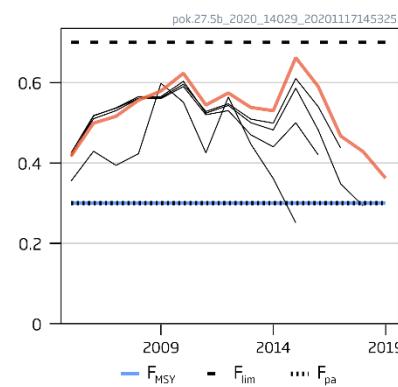
The stock was benchmarked in 2017 and the assessment model and input data were changed (ICES, 2018). As a result, the historical stock perception has changed markedly, with lower estimates of spawning-stock biomass (SSB) and higher estimates of F. Some minor additional changes to the model configuration were made in 2020 (ICES, 2020).

The assessment has a tendency to overestimate SSB.

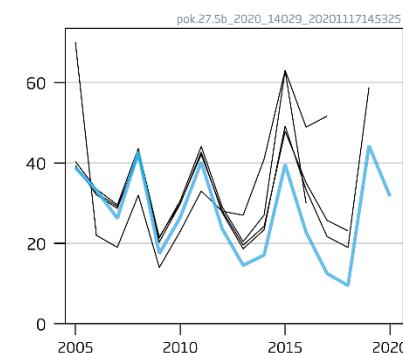
**SSB (1000 t)**



**F (ages 4-8)**



**Rec (age 3; Millions)**



**Figure 2** Saithe in Division 5.b (Faroes grounds). Historical assessment results. Results of the last five assessments are plotted, with the solid coloured line representing the current assessment.

## Reference points

**Table 4** Saithe in Division 5.b (Faroes grounds). Reference points, values, and their technical basis. All weights are in tonnes.

Framework	Reference point	Value	Technical basis	Source
MSY approach	MSY $B_{trigger}$	41400	$B_{loss}$ (SSB in 2013).	ICES (2017)
	$F_{MSY}$	0.30	Stochastic simulations.	ICES (2017)
Precautionary approach	$B_{lim}$	29571	$B_{pa}/1.4$ .	ICES (2017)
	$B_{pa}$	41400	$B_{loss}$	ICES (2017)
	$F_{lim}$	0.70	Stochastic simulations; the F that gives a 50% probability of SSB > $B_{lim}$ .	ICES (2017)
Management plan	$F_{pa}$	0.30	$F_{pos}, P(SSB < B_{lim}) < 5\%$ .	ICES (2017) *
	$SSB_{mgt}$	Not applicable		
$F_{mgt}$	Not applicable			

\* In 2020 both the technical basis and the value of  $F_{pa}$  were revised.

## History of the advice, catch, and management

**Table 5** Saithe in Division 5.b (Faroes grounds). ICES advice, TACs, and catch. All weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	Agreed TAC *	ICES catch
1987	No increase in F	< 32000		40020
1988	No increase in F	< 32000		45285
1989	Reduction in F	< 40000		44477
1990	Reduction in F	< 41000		61628
1991	TAC	< 30000		54858
1992	Reduction in F	< 27000		36487
1993	Reduction in F	< 37000		33543
1994	TAC	< 26000	42000 **	33182
1995	TAC	< 22000	39000 **	27209
1996	TAC	< 39000	-	20029
1997	20% reduction in F from 1995 level	< 21000	-	22306
1998	30% reduction in effort from 1996/1997 level	-	-	26421
1999	F below $F_{pa}$ (0.28)	< 14000		33207
2000	F below than $F_{pa}$ (0.28)	< 15000		39020
2001	Reduce fishing effort to generate F well below $F_{pa}$ (0.28)	< 17000		51786
2002	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 28000		53546
2003	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 47000		46555
2004	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 48000		46355
2005	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 32000		67967
2006	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 24000		68465
2007	Average catch considerations	40000		62351
2008	Do not increase effort	-		57044
2009	Reduce fishing effort by around 20%	-		59558
2010	Reduce fishing effort by around 20%	-		45441
2011	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 38000		30084
2012	Reduce fishing effort to generate F below $F_{MSY}$ (0.28)	< 40000		35448
2013	$F < 0.28$	< 29100		26539
2014	Reduce fishing effort to generate F below $F_{MSY}$ (0.30)	< 29000		24103
2015	Reduce fishing effort to generate F below $F_{MSY}$ (0.30)	< 26000		25900
2016	Reduce fishing effort to generate F below $F_{MSY}$ (0.30)	< 36000		29671

Year	ICES advice	Catch corresponding to advice	Agreed TAC *	ICES catch
2017	MSY approach ( $F \leq 0.30$ )	$\leq 46000$		30853
2018	MSY approach ( $F \leq 0.30$ )	$\leq 35003$		24019
2019	MSY approach	$\leq 23967$		21303
2020	MSY approach	$\leq 35636$		
2021	MSY approach	$\leq 27368$		

\* Not applicable since 1997.

\*\* 1 September in the quota year to 31 August the following year.

## Summary of the assessment

**Table 6** Saithe in Division 5.b (Faroes grounds). Assessment summary. Weights are in tonnes, recruitment in thousands.

Year	Recruitment			SSB			Catch	F			
	Age 3	97.5 percentile	2.5 percentile	SSB	97.5 percentile	2.5 percentile		Mean $F_{\text{ages } 4-8}$	97.5 percentile	2.5 percentile	
		Thousands			Tonnes				Tonnes		
1961	8835	16148	4834	64301	84831	48739	9592	0.105	0.156	0.071	
1962	13699	23864	7864	68616	89433	52644	10454	0.121	0.173	0.084	
1963	19920	34436	11522	77390	99365	60275	12693	0.130	0.184	0.092	
1964	16844	28871	9827	88083	112339	69064	21893	0.165	0.23	0.118	
1965	20120	34468	11744	98242	125977	76614	22181	0.189	0.26	0.136	
1966	15521	26680	9029	102777	133142	79338	25563	0.193	0.27	0.138	
1967	19396	33186	11336	97862	127925	74864	21319	0.166	0.23	0.118	
1968	20374	34608	11994	99365	129383	76312	20387	0.171	0.24	0.122	
1969	32318	54549	19147	105424	136945	81159	27437	0.20	0.28	0.144	
1970	30150	50390	18039	110665	143811	85159	29110	0.196	0.27	0.141	
1971	33405	55438	20129	122720	159072	94676	32706	0.191	0.26	0.137	
1972	33840	55891	20489	140769	180495	109787	42663	0.25	0.35	0.183	
1973	27203	44894	16483	160538	205119	125646	57431	0.28	0.39	0.21	
1974	24406	40603	14670	152133	194177	119192	47188	0.29	0.39	0.21	
1975	20371	33966	12217	155171	197953	121635	41576	0.27	0.37	0.198	
1976	22069	37002	13162	136245	172556	107575	33065	0.26	0.36	0.192	
1977	15284	25535	9149	128119	160356	102363	34835	0.27	0.38	0.199	
1978	9502	15839	5700	115300	142315	93413	28138	0.26	0.35	0.187	
1979	8189	13677	4903	102726	126070	83704	27246	0.26	0.36	0.196	
1980	14598	24220	8798	100700	122515	82769	25230	0.28	0.37	0.21	
1981	17521	29169	10524	81549	98434	67560	30103	0.34	0.45	0.26	
1982	14501	24184	8695	76219	91764	63308	30964	0.36	0.47	0.27	
1983	36575	61375	21796	78468	96527	63787	39176	0.43	0.56	0.33	
1984	20904	34718	12586	86928	108983	69336	54665	0.43	0.56	0.34	
1985	26083	43069	15796	97256	121903	77592	44605	0.43	0.56	0.34	
1986	39692	65953	23888	87798	109154	70621	41716	0.49	0.64	0.38	
1987	40480	67134	24408	85056	105702	68442	40020	0.47	0.61	0.36	
1988	36785	61072	22156	93952	118814	74293	45285	0.42	0.54	0.32	
1989	24065	39817	14545	103090	131031	81108	44477	0.39	0.51	0.30	
1990	18199	30058	11018	99365	124789	79121	61628	0.48	0.61	0.37	
1991	23775	39013	14489	81293	100203	65951	54858	0.64	0.81	0.50	
1992	19402	31807	11836	64907	79014	53319	36487	0.57	0.73	0.45	
1993	25158	41402	15288	63679	77588	52263	33543	0.49	0.62	0.38	
1994	16229	26394	9979	61523	74262	50969	33182	0.44	0.57	0.34	
1995	17919	29270	10970	59656	72261	49250	27209	0.44	0.57	0.34	
1996	15880	25648	9832	49601	60229	40849	20029	0.35	0.45	0.27	

Year	Recruitment			SSB			Catch	F		
	Age 3	97.5 percentile	2.5 percentile	SSB	97.5 percentile	2.5 percentile		Mean $F_{\text{ages } 4-8}$	97.5 percentile	2.5 percentile
	Thousands			Tonnes				Tonnes		
1997	22480	36185	13966	54640	66832	44672	22306	0.33	0.43	0.26
1998	14746	23770	9147	63804	77751	52360	26421	0.33	0.43	0.26
1999	30330	49550	18565	78026	95089	64025	33207	0.35	0.45	0.27
2000	39256	62918	24492	89687	108203	74339	39020	0.35	0.46	0.28
2001	75782	122112	47029	94969	114971	78447	51786	0.49	0.62	0.38
2002	46810	76686	28573	96825	118081	79395	53546	0.43	0.55	0.33
2003	43422	70487	26749	104437	129677	84109	46555	0.39	0.51	0.30
2004	20545	34355	12286	113943	141007	92074	46355	0.40	0.52	0.31
2005	38781	61824	24327	110285	135097	90030	67967	0.42	0.54	0.32
2006	33201	52436	21022	102379	123848	84631	68465	0.50	0.63	0.39
2007	26211	41035	16742	89128	107193	74108	62351	0.52	0.65	0.41
2008	42656	69304	26254	80286	95919	67200	59243	0.56	0.70	0.44
2009	17425	27455	11060	73512	87551	61724	59558	0.58	0.73	0.46
2010	26465	41297	16960	58912	69986	49589	45441	0.62	0.79	0.49
2011	40208	63602	25418	45490	53562	38634	30084	0.54	0.69	0.43
2012	23629	36895	15133	39546	46884	33357	35448	0.57	0.72	0.46
2013	14525	22704	9292	36567	44023	30374	26539	0.54	0.68	0.42
2014	17089	26830	10884	41505	50203	34314	24103	0.53	0.68	0.41
2015	39611	62802	24984	39406	47563	32648	25900	0.66	0.84	0.52
2016	22766	36179	14325	38055	46975	30829	29671	0.59	0.76	0.46
2017	12494	20577	7586	47709	60735	37476	30853	0.47	0.62	0.35
2018	9500	16932	5330	49701	63954	38625	24019	0.43	0.59	0.31
2019	44243	93005	21047	52506	71290	38671	21303*	0.36	0.54	0.24
2020	31734	92374	10902	54921	89291	33781				

\* Preliminary.

### Sources and references

ICES. 2017. Report of the North-Western Working Group (NWWG), 27 April–4 May, 2017, ICES Headquarters, Copenhagen. ICES CM 2017/ACOM:08. 642 pp. <https://doi.org/10.17895/ices.pub.5686>.

ICES. 2018. Report of the Benchmark Workshop on Faroese Stocks (WKFAROE 2017), 13–17 February 2017, Copenhagen, Denmark. ICES CM 2017/ACOM:33. 239 pp. <https://doi.org/10.17895/ices.pub.5687>.

ICES. 2020. North-Western Working Group (NWWG). ICES Scientific Reports, 2:51. 431 pp. <http://doi.org/10.17895/ices.pub.6051>.

*Recommended citation:* ICES. 2020. Saithe (*Pollachius virens*) in Division 5.b (Faroës grounds). In Report of the ICES Advisory Committee, 2020. ICES Advice 2020, pok.27.5b. <https://doi.org/10.17895/ices.advice.5932>.

# Annex 1

ICES Advice on fishing opportunities, catch, and effort  
Faroes ecoregion  
Published 29 November 2019

## Saithe (*Pollachius virens*) in Division 5.b (Faroes grounds)

### ICES advice on fishing opportunities

ICES advises that when the MSY approach is applied, catches in 2020 should be no more than 35 636 tonnes. ICES is not in a position to advise on the corresponding level of fishing effort.

### Stock development over time

The spawning-stock biomass (SSB) is estimated to have been above MSY  $B_{trigger}$  since 2014. Recruitment has fluctuated without trend since 2000; in 2019 recruitment is estimated to be above the historical average. Fishing mortality (F) is estimated to be just below  $F_{MSY}$  in 2018.



Figure 1 Saithe in Division 5.b (Faroes grounds). Summary of the stock assessment with 95% confidence intervals.

### Stock and exploitation status

ICES assesses that fishing pressure on the stock is below  $F_{MSY}$ ,  $F_{pa}$ , and  $F_{lim}$ , while spawning stock size is above MSY  $B_{trigger}$ ,  $B_{pa}$ , and  $B_{lim}$ .

Table 1 Saithe in Division 5.b (Faroes grounds). State of the stock and fishery relative to reference points.

	Fishing pressure			Stock size		
	2016	2017	2018	2017	2018	2019
Maximum sustainable yield	$F_{MSY}$	✗	✗	✓	Below	$MSY$ $B_{trigger}$
Precautionary approach	$F_{pa}, F_{lim}$	✓	✓	✓	Harvested sustainably	$B_{pa}, B_{lim}$
Management plan	$F_{MGT}$	—	—	—	Not applicable	$B_{MGT}$

## Catch scenarios

**Table 2** Saithe in Division 5.b (Faroes grounds). Assumptions made for the interim year and in the forecast. All weights are in tonnes.

Variable	Value	Notes
$F_{\text{ages } 4-8}$ (2019)	0.304	$F_{2016-2018}$ ; average of the last three years rescaled to 2018
SSB (2020)	102878	Based on $F = 0.304$ .
$R_{\text{age } 3}$ (2020)	23387	Median of resampled estimates from 2014 to 2018 (in thousands).
$R_{\text{age } 3}$ (2021)	23387	Median of resampled estimates from 2014 to 2018 (in thousands).
Total catch (2019)	28866	Based on $F = 0.304$ .

**Table 3** Saithe in Division 5.b (Faroes grounds). Annual catch scenarios. All weights are in tonnes.

Basis	Total catch (2020)	$F_{\text{total}}$ (2020)	SSB (2021)	% SSB change	% Advice change **
ICES advice basis					
MSY approach: $F_{\text{MSY}} = 0.30$	35636	0.3	117947	15	49
Other scenarios					
$F = 0$	0	0	151377	47	0
$F = F_{2019}$	36029	0.304	117586	14	50
$F = F_{\text{pa}}$	56390	0.52	93968	-4	135
$F = F_{\text{lim}}$	70597	0.7	86381	-16	195

\* SSB 2021 relative to SSB 2020 (102 878 t).

\*\* Advice value for 2020 relative to the advice value for 2019 (23 967 t).

The catch advice for 2020 has increased compared to the advice for 2019, this is due to the increase in biomass resulting from lower fishing mortality in recent years.

## Basis of the advice

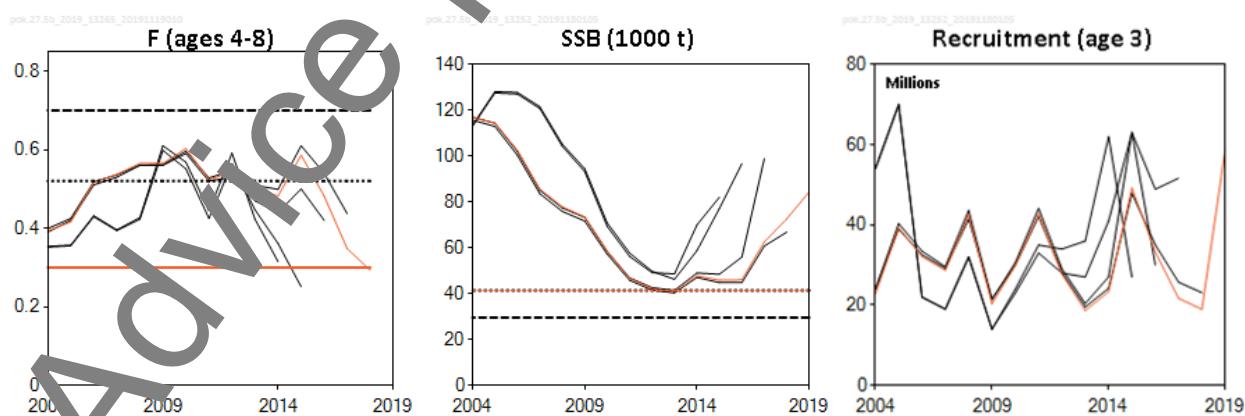
**Table 4** Saithe in Division 5.b (Faroes grounds). The basis of the advice.

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

## Quality of the assessment

The stock was benchmarked in 2017 and the assessment model and input data were changed. As a result, the historical stock perception has changed markedly. SSB and F are more consistently estimated in the 2018 and 2019 assessments.

Fishing mortality in 2017 has been revised downwards substantially in the 2019 assessment.



**Figure 2** Saithe in Division 5.b (Faroes grounds). Historical assessment results.

## Issues relevant for the advice

An effort management system has been in place since 1996. ICES is currently not in a position to quantify the relationship between effort and F for this stock.

## Reference points

**Table 5** Saithe in Division 5.b (Faroes grounds). Reference points, values, and their technical basis. All weights are in tonnes.

Framework	Reference point	Value	Technical basis	Source
MSY approach	MSY $B_{trigger}$	41400	$B_{loss}$ (SSB in 2013).	ICES (2017)
	$F_{MSY}$	0.30	Stochastic simulations.	ICES (2017)
Precautionary approach	$B_{lim}$	29571	$B_{pa}/1.4$ .	ICES (2017)
	$B_{pa}$	41400	$B_{loss}$ .	ICES (2017)
	$F_{lim}$	0.70	Stochastic simulations; the F that gives a 50% probability of SSB > $B_{lim}$ .	ICES (2017)
Management plan	$F_{pa}$	0.52	$F_{lim} \times \exp(-1.645 \times \sigma)$ , where $\sigma = 0.18$ .	ICES (2017)
	$SSB_{mgt}$	Not applicable		
	$F_{mgt}$	Not applicable		

## Basis of the assessment

**Table 6** Saithe in Division 5.b (Faroes grounds). Basis of the assessment and advice.

ICES stock data category	1 ( <a href="#">ICES, 2018a</a> ).
Assessment type	State-space model (SAM) using catches in the model and in the forecast (ICES, 2019).
Input data	Commercial catches (mainly Faroese catches, ages and length frequencies from catch sampling); Faroese bottom-trawl surveys FO-GFS-Q1 and FO-GFS-Q2; annual maturity data from FO-GFS-Q1; natural mortality set at M = 0.2.
Discards and bycatch	Discarding is considered negligible.
Indicators	None.
Other information	A benchmark assessment was performed in 2017 (WKFAROE; ICES, 2018b).
Working group	North-Western Working Group ( <a href="#">NWG</a> )

## Information from stakeholders

There is no additional available information.

## History of the advice, catch, and management

**Table 7** Saithe in Division 5.b (Faroes grounds). ICES advice, TACs and catch. All weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	Agreed TAC *	ICES catch
1987	No increase in F	< 32000		40020
1988	No increase in F	< 32000		45285
1989	Reduction in F	< 40000		44477
1990	Reduction in F	< 41000		61628
1991	TAC	< 30000		54858
1992	Reduction in F	< 27000		36487
1993	Reduction in F	< 37000		33543
1994	TAC	< 26000	42000**	33182
1995	TAC	< 22000	39000**	27209
1996	TAC	< 39000	-	20029
1997	25% reduction in F from 1995 level	< 21000	-	22306
1998	30% reduction in effort from 1996/1997 level	-	-	26421
1999	F below $F_{pa}$ (0.28)	< 14000		33207
2000	F below than $F_{pa}$ (0.28)	< 15000		39020
2001	Reduce fishing effort to generate F well below $F_{pa}$ (0.28)	< 17000		51786
2002	Reduce fishing effort to generate F below $F_{pa}$ (0.28)	< 28000		53546

Year	ICES advice	Catch corresponding to advice	Agreed TAC *	ICES catch
2003	Reduce fishing effort to generate $F$ below $F_{pa}$ (0.28)	< 47000		46555
2004	Reduce fishing effort to generate $F$ below $F_{pa}$ (0.28)	< 48000		46355
2005	Reduce fishing effort to generate $F$ below $F_{pa}$ (0.28)	< 32000		67967
2006	Reduce fishing effort to generate $F$ below $F_{pa}$ (0.28)	< 24000		68465
2007	Average catch considerations	40000		62351
2008	Do not increase effort	-		57044
2009	Reduce fishing effort by around 20%	-		59558
2010	Reduce fishing effort by around 20%	-		45441
2011	Reduce fishing effort to generate $F$ below $F_{pa}$ (0.28)	< 38000		30084
2012	Reduce fishing effort to generate $F$ below $F_{MSY}$ (0.28)	< 40000		35448
2013	$F < 0.28$	< 29100		26539
2014	Reduce fishing effort to generate $F$ below $F_{MSY}$ (0.30)	< 29000		24103
2015	Reduce fishing effort to generate $F$ below $F_{MSY}$ (0.30)	< 26000		25900
2016	Reduce fishing effort to generate $F$ below $F_{MSY}$ (0.30)	< 36000		29671
2017	MSY approach ( $F \leq 0.30$ )	$\leq 4600$		30853
2018	MSY approach ( $F \leq 0.30$ )	$\leq 35003$		24119
2019	MSY approach	$\leq 2396$		
2020	MSY approach	$\leq 35026$		

\* Not applicable since 1997.

\*\* In the quota year 1 September–31 August the following year.

### History of the catch and landings

**Table 8** Saithe in Division 5.b (Faroes grounds). Catch distribution by fleet in 2018 as estimated by ICES. All weights are in tonnes.

Catch (2018)	Landings		Discards
	97% pair trawls	3% other gears	
24119		24119	Negligible

**Table 9** Saithe in Division 5.b. History of commercial catch and landings; official catches by country and ICES estimated catches are presented. All weights are in tonnes.

Country	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Denmark		2													
Estonia															
Faroe Islands	43624	59821	53321	35979	32719	32406	26918	19267	21721	21995	32439	*	49676	55165	47933
France	**	**	**	120	75	19	10	12	9	17		273	934	607	370
Germany			32	5	2	1	41	3	5		100	230	667	422	281
German Dem. Rep.	9														125
German Fed. Rep.	20	15												5	
Greenland															
Ireland											0	0	0	0	0
Netherlands	22	67	65								160	72	60	77	62
Norway	51	46	103	85	32	156	1	16	67	53					
Portugal												20	1	10	32
UK (Eng. & W.)			5	74	279	151	21	53		19	67	32	80	58	89
UK (Scotland)	9	33	79	98	425	432	200	580	460	337	441	534	708	540	610
USSR/Russian Fed. ***		30		12				18	28						
Total	43735	60014	53605	36373	33532	33171	27200	19949	22306	26065	33207	1161	52131	57004	49377
ICES estimate ^.^	44477	61628	54858	36487	33543	33182	27209	20029	22306	26421	33207	39020	51786	53546	46555

Country	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018##
Denmark			34												
Estonia															
Faroe Islands^	48222	71496	72169	66319	63424	63339	48279	32357	38278	38655	25655	27496	30849	32966	25823
France	147	123	315	108	97	68	46	135	40	31	28	122	336	40	0
Germany	186	1	49	3	3	0									
Greenland			73	239	0	1									1
Ireland															
Iceland						148									
Netherlands	0	0	0	3	0	0	0						1		
Norway	82	82	35	81	38	23	28				4	40	198	27	15
Portugal	5														
Russian Federation	71	210	104	160	38	44				1					
UK (E/W/NI)	85	32	88	4											
UK (Scotland)	748	4322	1011	408	400	685									
United Kingdom							706	19		1	340	304	601	292	217
Total	49546	76266	73878	67325	64000	64308	49062	32511	38319	28688	26027	27962	31985	33325	26056
ICES estimate ^^^^#	46355	67967	68465	62351	59243	50558	45441	30084	35448	26539	24103	25900	29671	30853	24119

\* No official catches reported.

\*\* Quantity unknown 1989–1991.

\*\*\* Catches up to 1990 are from USSR and from the Russian Federation since 1991.

^ The 2001–2008 catches from Faroe Islands, as stated from the Faroese coast guard, have been corrected to be consistent with procedures used in previous years.

^^ Includes catches from Subdivision 5.b.2 and Division 2.a in Faroese waters.

^^^ Includes French, Greenlandic, and Russian catches from Division 5.b. as reported to the Faroese coast guard.

# Includes Faroese, French, and Greenlandic catches from Division 5.b. as reported to the Faroese coast guard.

## Preliminary.



Year	Recruitment			SSB			Catch	F		
	Age 3 thousands	97.5 percentile	2.5 percentile	SSB	97.5 percentile	2.5 percentile		Mean F ages 4–8	97.5 percentile	2.5 percentile
2005	39368	62324	24868	114476	141025	92925	67967	0.42	0.54	0.32
2006	32091	50272	20485	102644	124432	84670	68465	0.52	0.66	0.41
2007	28677	44530	18468	85640	102896	71278	62351	0.54	0.68	0.43
2008	42519	69352	26068	77946	93393	65053	59243	0.56	0.71	0.45
2009	20319	32216	12815	73501	87384	61825	59558	0.56	0.71	0.45
2010	29832	46618	19091	58570	69122	49629	45441	0.60	0.77	0.47
2011	42701	68214	26730	46612	54722	39704	30084	0.52	0.67	0.41
2012	27634	43212	17672	42205	49807	35764	35441	0.54	0.69	0.43
2013	18632	29221	11881	40744	49056	33839	26539	0.55	0.64	0.39
2014	23387	36962	14798	47746	57578	39593	24103	0.48	0.63	0.37
2015	49183	78984	30626	45870	55205	38113	33000	0.59	0.77	0.45
2016	33329	53464	20777	46079	56952	37282	29671	0.48	0.64	0.37
2017	21685	36423	12910	62573	79185	49446	30553	0.35	0.48	0.25
2018	18968	35330	10184	72686	95127	55538	41119	0.29	0.42	0.21
2019	58814	167673	20630	84441	119343	9746				

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