

Norway lobster (Nephrops norvegicus) in Subarea 4, outside the functional units (North Sea)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, landings should be no more than 301 tonnes in each of the years 2021 and 2022. ICES cannot quantify the corresponding total catches.

Note: This advice sheet is abbreviated due to the Covid-19 disruption. The previous advice issued for 2018, 2019, and 2020 is attached as Annex 1.

Stock development over time

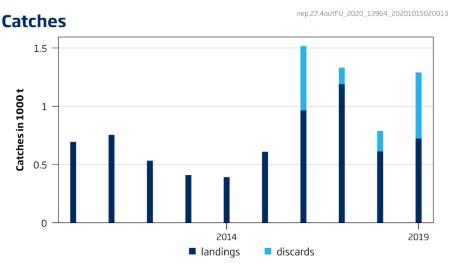


Figure 1 Norway lobster in Subarea 4, outside the functional units. ICES estimated landings and discards (tonnes). Discards are considered minimum estimates, as discard data are not available for all fleets.

Stock and exploitation status

Table 1 Norway lobster in Subarea 4, outside the functional units. 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}	3	?	3	Unknown	MSY B _{trigger}	3	8	3	Unknown
Precautionary approach	F_{pa} , F_{lim}	?	?	3	Unknown	B _{pa} ,B _{lim}	3	?	3	Unknown
Management plan	F _{MGT}	-	-	_	Not applicable	B _{MGT}	-	-	_	Not applicable

Catch scenarios

The ICES framework for category 5 stocks was applied (ICES, 2012). For stocks without information on abundance or exploitation, ICES considers that a precautionary reduction of catches should be implemented, unless ancillary information clearly indicates that the current level of exploitation is appropriate for the stock. The precautionary buffer has never been applied before and was therefore applied to the advice this year.

Table 2 Norway lobster in Subarea 4, outside the functional units. The basis for the catch scenarios.

Advised landings for 2018–2020		376 tonnes
Discard rate		Unknown
Precautionary buffer	Applied	0.8
Landings advice		301 tonnes
% advice change **		-20%

^{*} Advice value for 2021–2022 relative to the advice value for 2018–2020.

The change in advice (-20% compared to last year's advice) is due to the application of the precautionary buffer.

History of the advice, catch, and management

 Table 3
 Norway lobster in Subarea 4, outside the functional units. ICES advice and official landings. All weights are in tonnes.

Year ICES advice corresponding to advice corresponding to advice ICES landings ICES discards (BMS) landing 2010 < 1500 * 695 695 2011 < 1900 * 755 695 2012 ** 533 695 2013 < 820 409 600 600 2014 < 608 392 1 2015 < 409 610 1 Precautionary approach (decrease landings by 20% with respect to the 2012– 2014 average) ≤ 376 *** 966 553 < 2017 (same value of wanted catch as advised for 2016) ≤ 376 *** 1190 142 142 2018 (same value of wanted catch as advised for 2016) ≤ 376 *** 612 176 612 176 2019 (same value of wanted catch as advised for 2016) ≤ 376 *** 724 567 567 2019 (same value of wanted catch as advised for 2016) ≤ 376 *** 724 567	Table 3	Table 5 Not way lobster in Subarea 4, outside the functional units. ICES advice and official landings. All weights are in tollies.								
advice advice advice (BMS) landing	Year	ICES advice			ICES landings		Reported below minimum size			
2011			advice	advice		^	(BMS) landings			
2012	2010		< 1500 *		695					
2013	2011		< 1900 *		755					
2014	2012		**		533					
2015	2013		<820		409					
Precautionary approach (decrease landings by 20% with respect to the 2012— 2014 average) Precautionary approach (same value of wanted catch as advised for 2016) Precautionary approach 2018 (same value of wanted ≤ 376 *** 2019 (same value of wanted ≤ 376 *** 2019 (same value of wanted catch as advised for 2016) Precautionary approach (same value of wanted ≤ 376 *** 2019 (same value of wanted catch as advised for 2016) Precautionary approach (same value of wanted ≤ 376 *** 2019 (same value of wanted catch as advised for 2016) Precautionary approach 2019 (same value of wanted ≤ 376 *** 2019 (same value of wanted ≤ 376 ***	2014		<608		392	1				
2016 (decrease landings by 20% with respect to the 2012— 2014 average)	2015		<409		610	1				
2017 (same value of wanted catch as advised for 2016) ≤ 376*** 1190 142 Precautionary approach (same value of wanted catch as advised for 2016) Precautionary approach (same value of wanted catch as advised for 2016) ≤ 376 *** 612 176 2019 (same value of wanted catch as advised for 2016) ≤ 376 *** 724 567 Precautionary approach Precautionary approach 567 567	2016	(decrease landings by 20% with respect to the 2012–	≤ 376 ***		966	553	<< 1			
2018 (same value of wanted catch as advised for 2016) ≤ 376 *** 612 176 Precautionary approach (same value of wanted catch as advised for 2016) ≤ 376 *** 724 567 Precautionary approach Precautionary approach 724 567	2017	(same value of wanted	≤ 376***		1190	142	0			
2019 (same value of wanted catch as advised for 2016) ≤ 376 *** 724 567 Precautionary approach 724 567	2018	(same value of wanted	≤ 376 ***		612	176	0			
	2019	(same value of wanted	≤ 376 ***		724	567	0			
catch as advised for 2016)	2020	(same value of wanted	≤ 376 ***							
2021 Precautionary approach ≤ 301	2021	Precautionary approach	≤ 301							
2022 Precautionary approach ≤ 301	2022	Precautionary approach	≤ 301							

^{*} Including Devil's Hole (FU 34).

Summary of the assessment

There is no assessment for Norway lobster in this area.

^{**} No increase in catches.

^{***} Advised value refers to wanted catch.

[^] Discards are considered minimum estimates as discard data are not available for all fleets.

Sources and references

ICES. 2012. ICES Implementation of Advice for Data-limited Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM:68. 42 pp. https://doi.org/10.17895/ices.pub.5322.

ICES. 2020. Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK). ICES Scientific Reports, 2:61. 1140 pp. http://doi.org/10.17895/ices.pub.6092.

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Norway lobster (Nephrops norvegicus) in Subarea 4, outside the functional units (North Sea)

ICES stock advice

ICES advises that when the precautionary approach is applied, wanted catch should be no more than 376 onnes in each of the years 2018, 2019, and 2020. ICES can not quantify the corresponding total catches.

Stock development over time

The state of Nephrops outside the functional units is unknown. Landings have been increasing since 1014.

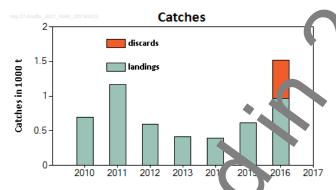


Figure 1 Norway lobster in Subarea 4, outside the functional units (15) e-uniated landings (tonnes).

Stock and exploitation status

Table 1 Norway lobster in Subarea 4, outside the functional units state of the stock and fishery relative to reference points.

	Fishing	pressure				Stock size	9			
		2015	2016	2017			2015	2016	2017	
Maximum sustainable yield	F_{MSY}	?	?	3	on the d	B _{trigger}	?	?	?	Undefined
Precautionary approach	F _{pa} , F _{lim}	?	?	?	Un efined	B _{pa} , B _{lim}	?	?	?	Undefined
Management plan	F_{MGT}	-	_		Not applicable	SSB_{MGT}	-	-		Not applicable
Qualitative evaluation	-	?	?	3	Unknown	-	?	?	?	Unknown

Catch options

The ICES framework for category 5 stocks was applied (ICES, 2012). For stocks without information on abundance or exploitation, ICES consider 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. The precautionary buffer was applied in 2015 and was applied again.

Table 2 Norway L bster in Subarea 4, outside the functional units. The basis for the catch options.

Advised wanted atch for 2006 and 2017	376 tonnes
Discard rate	Unknown
Precautionary b ffer	Not applied -
Wanter catch advice	376 tonnes

^{*} Advise war ____tch for 2016 and 2017.

Basis of the advice

Table 3 Norway lobster in Subarea 4, outside the functional units. The basis of the advice.

Advice basis	Precautionary approach.
Management plan	ICES is not aware of any agreed precautionary management plan for Norway lobster in the area.

Quality of the assessment

Only landings are available in a consistent manner. Prior to 2016, the few discard data that are available show highly variable rates between métiers and years (20%–40%). Discard data were provided by Scotlar and Netherlands in 2016. The discard biomass presented shows only reported discarding and is not raised to total landings accause of the large-scale variability in discarding rates between those countries that have supplied data. As a configure to the advice.

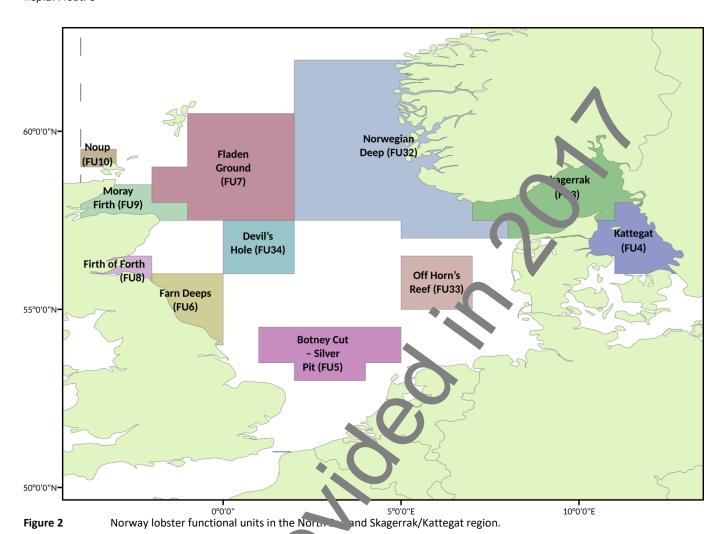
Issues relevant for the advice

Norway lobster outside the FUs are not considered to constitute separate stocks out poresent small patches of Norway lobster outside the identified stock units (FUs). The level of self-recruitment to less parches is unknown, although it is likely that there is some recruit spill-over from the major stock units.

There is a single TAC for all of ICES Subarea 4. Management should ensure that fishing opportunities are in line with the scale of the resource in each of the stocks.

From 2016 the EU landing obligation was applied to traps and trayings irs (80–99 mm mesh) fishing for Norway lobster in ICES Subarea 4. A *de minimis* exemption was made for animals blow the 25 mm minimum conservation size (MCS), up to a maximum of 6% of total landings. Other gears and mesh sizes are not under the landing obligation.

Results from a North Sea mixed-fisheries analysis are posented in ICES (2017a). For 2018, assuming a strictly implemented discard ban (corresponding to the "Minimum" scenario), whiting would be the most limiting stock, being estimated to constrain 24 out of 42 fleet segments. Had lock is the second most limiting stock, constraining eight fleet segments. Additionally, if Norway lobster was mand, to by separate TACs for the individual functional units (FUs), Norway lobster in FU 6 would be considered and most limiting stock for ten fleet segments. Conversely, in the "Maximum" scenario, saithe and Eastern Chainel place would be the least limiting for 20 and 11 fleet segments, respectively. Finally, if Norway lobster was nand by separate TACs, Norway lobster in FUs 7, 5, 33, and 4.non-FU would be the least limiting for nine, two, one and two fleet segments, respectively. For those demersal fish stocks for which the FMSY range is available, a "range scenario is presented that minimizes the potential for TAC mismatches in 2018 within the FMSY range. This scenario returns a fishing mortality by stock which, if used for setting single-stock fishing opportunities for 2018, may reduce the gangetween the most and the least restrictive TACs, thus reducing the potential for quota over- and undershoot. This "range" scenario suggests that the potential for mixed-fisheries mismatch would be lowered with a 2018 TAC in the lower part of the FMSY range for eastern English Channel place and saithe, and in the upper part of the range for cod a Nor th Sea plaice. Norway lobster was not included in the 'range' scenario.



Reference points

No reference points are defined for this stock.

Basis of the assessment

Table 4 Norway lobster in Subarea 4, outside the functional units. Basis of the assessment and advice.

ICES stock data category	5 (ICES <u>201</u> 1.
Assessment type	No asset whent
Input data	International landings.
Discards, BMS, and	Ir tomple e international discards. Below minimum size (BMS) landings, where recorded, are included.
Indicators	No.
Other information	N 1e.
Working group	Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK)

Information from takeholders

There is no additional available information.

ICES Advice 2017 3

History of the advice, catch, and management

 Table 5
 Norway lobster in Subarea 4, outside the functional units. ICES advice and official landings. All weights are in tonnes

Table 5	Norway lobster iii	Subarea 4, outside t	ne functional units.	ICES auvi	ce and official is	anungs. An wei	giits are iii toillies.
Year	ICES advice	Predicted landings corresponding to advice	Predicted catch corresponding to advice	TAC	ICES landings	ICES discards	Reported BMS landings
2010		< 1500 *			695		
2011		< 1900 *			1166		
2012		**			590		
2013		<820			409		
2014		<608			393		
2015		<409			6 5		
2016	Precautionary approach (decrease landings by 20% with respect to the 2012– 2014 average)	< 376 ***			966	552	<< 1
2017	Precautionary approach (same value of wanted catch as advised for 2016)	< 376***		•			
2018	Precautionary approach (advised wanted catch for 2016 and 2017)	≤ 376 ***		>			
2019	Precautionary approach (same value of wanted catch as advised for 2018)	≤ 376 ***			5		
2020	Precautionary approach (same value of wanted catch as advised for 2018)	≤ 376 ***					

^{*} Including Devil's Hole (FU 34).

History of the catch and landings

Table 6 Norway lobster in Subarea 4, ou side be functional units. Catch distribution by fleet in 2016 as estimated by ICES.

Catch (2016)	andings	Unwanted catch	BMS
1518 tonnes	QTL 100%	552 tonnes*	0.001 +
	9 6 tonnes	552 tonnes	0.001 tonnes

^{*}Reported discarding is not raised to fleet lev

Table 7 Norway lobster in the rea 4, outside the functional units. History of commercial landings, ICES estimated values are presented by country. All weights are in tonnes.

		,	- 0					
Year	Belgium	Denma	Germany	Netherlands	Sweden	UK (ENG)	UK (SCO)	Total
2011	411	53	208	137	0	36	322	1166
2012	57	27	132	128	0	44	202	590
2013	31	8	84	152	0	57	78	409
2014	51	31	115	69	0	28	98	393
2015	1.	25	105	155	0	36	117	610
2016	217	23	219	290	0	53	164	966

Summary of the sec sement

There is passessment for Norway lobster in this area.

ICES Advice 2017 4

^{**} No increase in catches.

^{***} Advised value refers to wanted catch.

Sources and references

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

ICES. 2016. Advice basis. In Report of the ICES Advisory Committee, 2016. ICES Advice 2016, Book 1, Se vio 1.2.

ICES. 2017a. Report of the Working Group on Mixed-Fisheries Advice (WGMIXFISH-ADVICE), 22–26 Ma, 2017, ICES Headquarters, Copenhagen, Denmark. ICES CM 2017/ACOM:18. In preparation.

ICES. 2017b. Report of the Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK), 26 April–5 May 2017, ICES Headquarters, Copenhagen, Denmark. ICES CM 2017, ICON. 1. In preparation.

ICES Advice 2017 5