



MarinTrust Standard V2

By-product Fishery Assessment Sole, ICES Subarea 4

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Table 1 Application details and summary of the assessment outcome

	Species:	Sole, <i>Solea solea</i>
	Geographical area:	ICES Subarea 4
Fishery Under Assessment	Country of origin of the product:	France
	Stock:	Sole in the North Sea
Date		December 2022
Report Code		FRA36
Assessor		Sam Peacock
Country of origin of the product - PASS		France
Country of origin of the product - FAIL		None

Application details and	l summary of the assess	ment outcome		
Company Name(s): BI	OCEVAL SAS Concarnea	u		
Country: France				
Email address:		Applicant Code	e:	
Certification Body Deta	ails			
Name of Certification	Body:	LRQA		
Assessor	Peer Reviewer	Assessment	Initial/Surveillance/ Re-approval	
		Days		
Sam Peacock	Kate Morris	0.25	Surveillance	
Assessment Period	D	ecember 2022 ·	– December 2023	

Scope Details	
Main Species	Sole, <i>Solea solea</i>
Stock	Sole in the North Sea
Fishery Location	ICES Subarea 4
Management Authority	EU
(Country/ State)	EO
Gear Type(s)	Bottom trawl
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Approve for use as MT raw material

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Table 2. Assessment Determination

Assessment Determination

Sole has been categorised by the IUCN as Least Concern and does not appear in the CITES appendices. Sole in the North Sea is managed using a single TAC which is set based on the status of the stock relative to established reference points; it was therefore assessed under Category C.

All fishery removals including discards, which represent around 10% of total catch, are included in the annual stock assessment conducted by ICES. Stock spawning biomass was estimated by the most recent stock assessment to be below the target reference point but above the limit reference point. The byproduct therefore meets the MT requirements and should remain approved for use as a raw material.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment here is Sole (*Solea solea*) fishery, pursued by French fishing vessels in FAO fishing area 27, ICES subdivision 4. Sole is managed by the EU Common Fisheries Policy and the French government. For this Marin Trust assessment, the Sole stock is scored as a category C species as it's managed to species specific reference points.

The species scoring table has been completed by the auditor with sufficient evidence presented to support their final determination.

The peer review supports the auditor's recommendation to the ICES 27, Sub4, Sole stock pursued by the fishery under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

Notes for On-site Auditor



Species Categorisation

NB: If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MarinTrust raw material.

IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category ¹	CITES Appendix 1 ²
Sole	Solea solea	North Sea	Yes	С	Least Concern ³	No

¹ <u>https://www.iucnredlist.org/</u>

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² httns:/	/cites org/	engl	ann	appendices.php	
11(()))		CIIS/	upp/		

³ https://www.iucnredlist.org/species/198739/87698320

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CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

Spe	ecies	Name	Sole	
C1	Catego	or <mark>y C Stock St</mark> a	atus - Minimum Requirements	
CI	C1.1	-	ovals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	PASS
	C1.2	reference po	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	PASS
			Clause outcome:	PASS

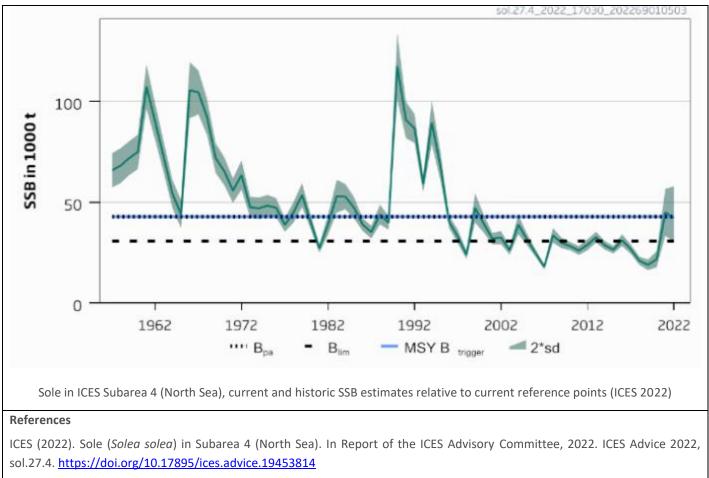
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

Sole in the North Sea is subjected to an annual assessment by the ICES Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK). The results of the most recent assessment, along with catch advice, were published in June 2022. The stock assessment conducted was an age-based analytical assessment which explicitly incorporates catches in the model and the forecast (ICES 2022). Commercial catches plus age frequencies from catch sampling were included in the model. Discards, estimated to represent around 10.5% of the total catch in 2021, have been included since 2002. The catch advice includes a section covering "issues relevant for the advice", and this section does not include any concerns regarding data completeness in the June 2022 advice. Fishery removals are considered in the assessment process and C1.1 is met.

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

The 2022 catch advice included an estimate of the current stock status relative to the established target and limit reference points. The target reference points MSY B_{trigger}, B_{pa} and MAP MSY B_{trigger} are set at 42,838t. The limit reference points B_{lim} and MAP B_{lim} are set at 30,828t. The 2022 stock assessment produced a short-term projection for SSB in 2023 of 38,776t, above the limit reference point but below the target. The catch advice states "spawning-stock size is below MSY B_{trigger} and between B_{pa} and B_{lim}". Therefore, the stock is currently estimated to have a biomass above the limit reference point and C1.2 is met.





Links	
MarinTrust Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01



CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

D1	Species Name	n/a	
	Productivity Attribut	e Value	Score
	Average age at maturity (years)		
	Average maximum age (years)		
	Fecundity (eggs/spawning)		
	Average maximum size (cm)		
	Average size at maturity (cm)		
	Reproductive strategy		
	Mean trophic level		
		Average Productivity Score	
	Susceptibility Attribut	e Value	Score
	Availability (area overlap)		
	Encounterability (the position of the s		
	within the water column relative to th	e fishing gear)	
	Selectivity of gear type		
	Post-capture mortality		
		Average Susceptibility Score	
		PSA Risk Rating (From Table D3)	
		Compliance rating	
	Further justification for susceptibility		
		ovide a brief rationale for scoring of parameters wh	ere there may be
	uncertainty affecting your decision		
Refere	nces		
Stando	ard clauses 1.3.2.2		
Standa			



Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility attributes		ow susceptibility .ow risk, score = 1)		edium susceptibility nedium risk, score = 2)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap	10	-30% overlap		0% overlap
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	fis	w overlap with hing gear (low counterability).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high counterability). efault score for rget species
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught
Potential of the gear to retain species	ь	Individuals < size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	re	vidence of majority leased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.

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D3		Average Susceptibility	Score	
		1 - 1.75	1.76 - 2.24	2.25 - 3
Average Productivity	1 - 1.75	PASS	PASS	PASS
Score	1.76 - 2.24	PASS	PASS	TABLE D4
	2.25 - 3	PASS	TABLE D4	TABLE D4

D4	Spe	cies Name	
	Impac	ts On Species Categorise	d as Vulnerable by D1-D3 - Minimum Requirements
	D4.1	The potential impacts	of the fishery on this species are considered during the management
		process, and reasonab	le measures are taken to minimise these impacts.
	D4.2	There is no substantia	I evidence that the fishery has a significant negative impact on the
		species.	
			Outcome:
		asures are taken to min	shery on this species are considered during the management process, and imise these impacts.
D4.2 T	here is r	o substantial evidence	hat the fishery has a significant negative impact on the species.
Refere		o substantial evidence	hat the fishery has a significant negative impact on the species.
Refere	ences		
Refere Links Marin	ences Trust Sta	no substantial evidence	1.3.2.2, 4.1.4
Refere	ences Trust Sta		