



MarinTrust Standard V2

By-product Fishery Assessment, FRA36 Sole, ICES Subarea 4

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Table 1 Application details and summary of the assessment outcome

	Species:	Sole, Solea solea	
	Geographical area:	FAO 27, ICES Subarea 4	
Fishery Under Assessment	Country of origin of the product:	France	
	Stock:	Sole in the North Sea	
Date	November 2023		
Report Code	FRA36		
Assessor	Sam Peacock		
Country of origin of the product - PASS	France		
Country of origin of the product - FAIL	n/a		

Application details and summary of the assessment outcome						
Company Name(s): Bl	Company Name(s): BIOCEVAL SAS Concarneau					
Country:						
Email address:		Applicant Code	2:			
Certification Body Deta	Certification Body Details					
Name of Certification Body:		LRQA				
		Assessment	Initial/Surveillance/			
Assessor Peer Reviewer		Days	Re-approval			
Sam Peacock Jose Peiro Crespo		0.2 Surveillance 2				
Assessment Period	November 2023 – October 2024					

Scope Details	
Main Species	Sole, Solea solea
Stock	Sole in the North Sea
Fishery Location	FAO 27, ICES Subarea 4
Management Authority	EU
(Country/ State)	EU
Gear Type(s)	Bottom trawl
Outcome of Assessment	
Peer Review Evaluation	Approve
Recommendation	Approve byproduct

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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. Biomass is currently estimated to be slightly above the limit reference point level and future MT assessments of the byproduct should ensure it has not fallen below.

The byproduct currently 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 is the Dover sole (*Solea solea*) bottom trawl fishery in ICES Subarea 4 (North Sea) (FAO area 27). The species is classified as Data deficient (DD) by the IUCN. The species is managed relative to biomass-based reference points, and it is therefore assessed under category C.

In the most recent stock assessment for the species, it is considered that biomass is slightly above the limit reference point and therefore, it passes category C.

Therefore, the peer review supports the auditor's recommendation to pass the Dover sole caught with trawls in ICES Subarea 4 (North Sea) 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>

² https:/	/cites org/	/eng/	ann/	appendices.php	
nups./	/ CILES. OI g/	CIIS/	app	appendices.php	

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

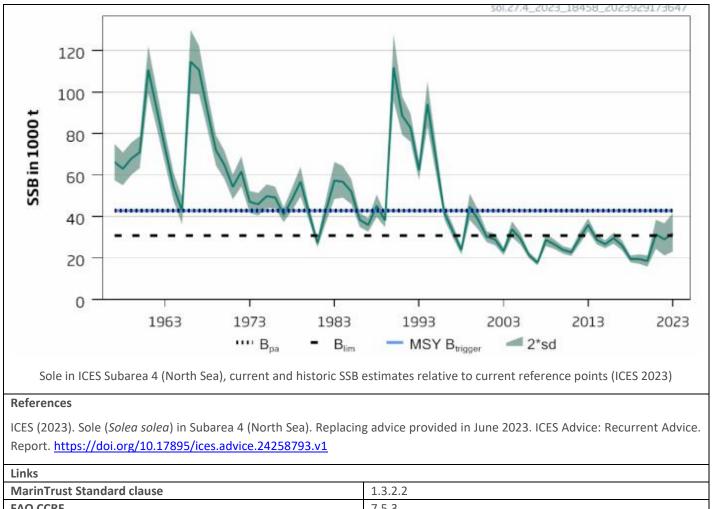
C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible.

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 2023, and subsequently updated in October 2023. The stock assessment conducted was an age-based analytical assessment which explicitly incorporates catches in the model and the forecast (ICES 2023). Commercial catches plus age frequencies from catch sampling were included in the model. Discards, estimated to represent 9.5% of the total catch in 2022, have been included in the assessment 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 2023 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 2023 stock assessment produced a short-term projection for SSB in 2024 of 24,939t, below the limit reference point. However, the catch advice states "spawning-stock size is below MSY B_{trigger} and between B_{pa} and B_{lim}". The recommended TAC for 2024 is substantially smaller than in 2023. As the stock is currently estimated to have a biomass above the limit reference point, C1.2 is met.





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	е	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	te	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				
		P	SA Risk Rating (From Table D3)				
	Compliance rating						
	Further justification for susceptibility	• •	-				
	For susceptibility attributes, please pro	ovide a brief rationa	lle for scoring of parameters whe	re 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)		Medium susceptibility (medium risk, score = 2)		High susceptibility (high risk, score = 3)	
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap		10	10-30% overlap		>30% 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	Low overlap with fishing gear (low encounterability).		Medium overlap with fishing gear.		High overlap with fishing gear (high encounterability). Default score for target 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	Evidence of majority eleased post-capture and survival.		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	D4 Species Name n/a								
	Impacts On Species Categorised 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	process, and reasonable measures are taken to minimise these impacts.						
	D4.2	There is no substantia	There is no substantial evidence that the fishery has a significant negative impact on the						
		species.							
			Outcome:						
Evider	nce								
		o substantial evidence	that the fishery has a significant negative impact on the species.						
Refere	ences								
Links									
	Trust Sta		1.3.2.2, 4.1.4						
	005	ndard clause							
FAO C GSSI	CRF	indard clause	7.5.1 D.5.01						

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