



## MarinTrust Standard V2

# By-product Fishery Assessment Report Template

**MarinTrust Programme**

Unit C, Printworks

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**Table 1 Application details and summary of the assessment outcome**

Fishery Under Assessment	Species:	Black scabbardfish, <i>Aphanopus carbo</i>
	Geographical area:	FAO Area 27 North East Atlantic
	Country of origin of the product:	France
	Stock:	Black scabbardfish in subareas 1,2 4-8, 10 and 14 and divisions 3.a, 9.a, and 12b (Northeast Atlantic and Arctic Ocean)
Date	11 October 2021	
Report Code	BP 209	
Assessor	Geraldine Criquet	
Country of origin of the product - PASS	France	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name: Copalis			
Address:			
Country: France		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Geraldine Criquet	Virginia Polonio	0.5	Surveillance 1
Assessment Period	To October 2021		

Scope Details	
Main Species	Black scabbardfish, <i>Aphanopus carbo</i>
Stock	Black scabbardfish in subareas 1,2 4-8, 10 and 14 and divisions 3.a, 9.a, and 12b (Northeast Atlantic and Arctic Ocean)
Fishery Location	FAO Area 27 Northeast Atlantic Ocean
Management Authority (Country/ State)	European Union / France Direction des Pêches Maritimes et de l'Aquaculture
Gear Type(s)	Trawl, longline
Peer Review Evaluation	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	<b>APPROVED</b>

## Table 2. Assessment Determination

Assessment Determination
<p>If any species is categorised as Endangered or Critically Endangered on IUCN's Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marin Trust raw material. Black scabbardfish (<i>Aphanopus carbo</i>) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, black scabbardfish is eligible for approval for use as Marin Trust by-product raw material.</p> <p>Northeast Atlantic and Arctic Ocean black scabbardfish is TAC-managed. ICES is not aware of any precautionary management plan for this stock. Reference points are not defined for the stock, therefore it was assessed under category D.</p> <p>With an average productivity score of 2.17 and an average susceptibility score of 2, the black scabbardfish PASSES Clause D1 in accordance with Table D3.</p> <p>Therefore, black scabbardfish in subareas 1,2 4-8, 10 and 14 and divisions 3.a, 9.a, and 12b (Northeast Atlantic and Arctic Ocean) is <b>APPROVED</b> for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The Peer review agrees with the assessor's determination as the species has been correctly classified under category D as no reference points are defined, and it passes the PSA. Consequently, black scabbardfish in subareas 1,2 4-8, 10 and 14 and divisions 3.a, 9.a, and 12b (Northeast Atlantic and Arctic Ocean) is recommended for approval for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.</p>
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 Redlist 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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Black scabbardfish	<i>Aphanopus carbo</i>	Black scabbardfish in subareas 1,2 4-8, 10 and 14 and divisions 3.a, 9.a, and 12b (Northeast Atlantic and Arctic Ocean)	European Union / France Direction des Pêches Maritimes et de l'Aquaculture	D	LC	No

<sup>1</sup> <https://www.iucnredlist.org/>

<sup>2</sup> <https://cites.org/eng/app/appendices.php>

## CATEGORY D SPECIES

Category D species are those which make up less than 5% of landings and 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.

<b>D1</b>	<b>Species Name</b>	Black scabbardfish, <i>Aphanopus carbo</i>	
	<b>Productivity Attribute</b>	<b>Value</b>	<b>Score</b>
	Average age at maturity (years)	3 years	2
	Average maximum age (years)	10 – 30 years	2
	Fecundity (eggs/spawning)	Information not available	Not scored
	Average maximum size (cm)	151 cm	3
	Average size at maturity (cm)	111.6 – 117.5 cm	2
	Reproductive strategy	Nonguarders Open water/substratum egg scatterers	1
	Mean trophic level	4.5	3
	<b>Average Productivity Score</b>		<b>2.17</b>
	<b>Susceptibility Attribute</b>	<b>Value</b>	<b>Score</b>
	Overlap of adult species range with fishery	Information not available	Not scored
	Distribution	Throughout the northeast Atlantic and the Arctic Ocean	1
	Habitat	Benthopelagic, meso-pelagic	1
	Depth range	700 - 1300 m	1
	Selectivity	Species >2 times mesh or up to 4 m	3
	Post-capture mortality	Most dead or retained	3
	<b>Average Susceptibility Score</b>		<b>2</b>
	<b>PSA Risk Rating (From Table D3)</b>		<b>PASS</b>
	<b>Compliance rating</b>		<b>PASS</b>
<b>References</b>			
Fish Base – black scabbardfish, <i>Aphanopus carbo</i> <a href="https://www.fishbase.de/summary/Aphanopus-carbo.html">https://www.fishbase.de/summary/Aphanopus-carbo.html</a>			
Smith-Vaniz, W.F., Collette, B., Heessen, H. & Herrera, J. 2015. <i>Aphanopus carbo</i> . <i>The IUCN Red List of Threatened Species</i> 2015: e.T18179793A45900190. Downloaded on 11 October 2021.			
<i>Standard clauses 1.3.2.2</i>			

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5–3.25	<2.5

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
		Score 3	Score 2	Score 1
Availability	1) Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished
	2) Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution
Encounterability	1) Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)
	2) Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)
Selectivity		Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh size or >5 m length
Post capture mortality		Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours

**Note:** Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

<b>D3</b>		<b>Average Susceptibility Score</b>		
		<b>1 - 1.75</b>	<b>1.76 - 2.24</b>	<b>2.25 - 3</b>
<b>Average Productivity Score</b>	<b>1 - 1.75</b>	PASS	PASS	PASS
	<b>1.76 - 2.24</b>	PASS	PASS	TABLE D4
	<b>2.25 - 3</b>	PASS	TABLE D4	TABLE D4