MarinTrust Standard V2

By-product Fishery Assessment Report Template

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Anglerfish (*Lophius budegassa, Lophius piscatorius*)
	Geographical area:	FAO Major Fishing Area 27
	Country of origin of the product:	U.K. & Ireland
	Stock:	Anglerfish (*Lophius budegassa, Lophius piscatorius*) in subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat)
Date	28 April 2021	
Report Code	BP53	
Assessor	Vito Romito	
Country of origin of the product - PASS	PASS	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: U.K. & Ireland		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
Vito Romito	Virginia Polonio	0.5	Re-approval
Assessment Period	To April 2021		

Scope Details	
Main Species	Monkfish/anglerfish
Stock	Anglerfish (*Lophius budegassa, Lophius piscatorius*) in subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat)
Fishery Location	ICES Subareas 4 and 6, Division 3.a
Management Authority (Country/ State)	EU Common Fisheries Policy Framework and UK Fisheries Act 2020
Gear Type(s)	Bottom trawls
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
Recommendation	APPROVE

Table 2. Assessment Determination

Assessment Determination
Monkfish (*Lophius budegassa, Lophius piscatorius*) is not is categorised as Endangered or Critically Endangered on the IUCN Red list nor is listed in Appendix 1 of CITES. The EU multiannual plan (MAP) for stocks in Western Waters and adjacent waters (EU, 2019) applies to this stock complex in Eu waters. The MAP stipulates that when the FMSY ranges are not available, fishing opportunities should be based on the best available scientific advice. The ICES framework for category 3 stocks was applied (ICES, 2012) for this tock. The Scottish–Irish Anglerfish and Megrim Industry–Science Survey in Subarea 6 and Division 4.a (SIAMISS-Q2) was used as the index of stock development. This survey was cancelled in 2020 because of COVID-19. The advice is based on the ratio of the mean of the last two index values (Index A, with 2020 treated as missing) and the mean of the three preceding values (Index B), multiplied by the recent advised catch. This is equivalent to assuming that the 2020 value is equal to the 2019 biomass index. The stock size indicator increased from 2011 to a high value in 2017, and has been decreasing since then. The harvest rate has increased since 2015. The index is estimated to have decreased by more than 20% from its high in 2017 and thus the uncertainty cap was applied. The precautionary buffer was last applied in 2019 and its application has, therefore, not been considered again. The discard rate in 2019 was 2.3% of the total catch. ICES cannot assess the stock and exploitation status relative to the maximum sustainable yield (MSY) and precautionary approach (PA) reference points, because the reference points are undefined. Therefore, the species has been categorised as Category C. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach has been taken. In order to approve the species must pass table D1. *L. budegassa* with an average productivity of 2.14 and susceptibility of 2 has passed table D1. *L. piscatorius* with an average of 2 in both indicators has also passed table D1. Therefore, Anglerfish (*Lophius budegassa, Lophius piscatorius*) in subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat) and therefore is APPROVED by the assessor for the production of fishmeal and fish oil under the current Marin Trust v.2.0 by-product Standard
Fishery Assessment Peer Review Comments

The species has been correctly categorised under category D and both species have been passed the table D1 and therefore is APPROVED by the assessor for the production of fishmeal and fish oil under the current Marin Trust v.2.0 by-product Standard. The PR agrees with assessor's determination.
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[1]	CITES Appendix 1[2]
Monkfish/anglerfish	*Lophius budegassa and Lophius piscatorius*	Anglerfish (Lophius budegassa, Lophius piscatorius) in ICES subareas 4 and 6 and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat)	EU Common Fisheries Policy Framework and UK Fisheries Act 2020	D	*Lophius budegassa:* DD *Lophius piscatorius:* LC	Not listed

[1] https://www.iucnredlist.org/
[2] 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.

D1	Species Name	*Lophius budegassa*	
	Productivity Attribute	**Value**	**Score**
	Average age at maturity (years)	7.7. years	3
	Average maximum age (years)	21 years	2
	Fecundity (eggs/spawning)	46K to 400K	1
	Average maximum size (cm)	100 cm	2
	Average size at maturity (cm)	53.2	2
	Reproductive strategy	Demersal spawner	2
	Mean trophic level	4.4	3
		Average Productivity Score	**2.14**
	Susceptibility Attribute	**Value**	**Score**
	Overlap of adult species range with fishery	Not known /NA	
	Distribution	It's distributed all across European waters (as shown in the figure below)	1
	Habitat	Bathydemersal, rocky bottoms	2
	Depth range	100 - 500 m	1
	Selectivity	Species more than 2 times the mesh size	3
	Post-capture mortality	The species is retained and therefore PCM is considered high.	3
		Average Susceptibility Score	**2**
		PSA Risk Rating (From Table D3)	**PASS**
		Compliance rating	**PASS**

References

Figure 1. Lophius budegassa distribution in European waters. This map was computer-generated and has not yet been reviewed. Data sources: GBIF OBIS, Fishbase.

ICES. 2020. Anglerfish (Lophius budegassa, Lophius piscatorius) in subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat). In Report of the ICES Advisory Committee, 2020. ICES Advice 2020, anf.27.3a46. https://doi.org/10.17895/ices.advice.5926.

Fishbase. 2021. Lophius budegassa, Spinola 1807, Blackbellied angler. Accessed on 28/04/2021. Available at https://www.fishbase.se/summary/5094 Fishbase. 2021. Life History Data on Lophius budegassa Blackbellied angler. Accessed on 28/04/2021. Available at: https://www.fishbase.se/popdyn/KeyfactsSummary_1.php?ID=5094&GenusName=Lophius&SpeciesName=budegassa&vStockCode=5329&fc=190
Standard clauses 1.3.2.2

D1	Species Name	*Lophius piscatorius*	
	Productivity Attribute	**Value**	**Score**
	Average age at maturity (years)	3.4 years	2
	Average maximum age (years)	16 years	2
	Fecundity (eggs/spawning)	1,000,000	1
	Average maximum size (cm)	200 cm	3
	Average size at maturity (cm)	55 cm	1
	Reproductive strategy	Demersal spawner	2
	Mean trophic level	4.5	3
		Average Productivity Score	**2**
	Susceptibility Attribute	**Value**	**Score**
	Overlap of adult species range with fishery	Not known /NA	
	Distribution	It's distributed all across European waters (as shown in the figure below)	1
	Habitat	Marine; bathydemersal	2
	Depth range	depth range 20 - 1000 m	1
	Selectivity	Species more than 2 times the mesh size	3
	Post-capture mortality	The species is retained and therefore PCM is considered high.	3
		Average Susceptibility Score	**2**
		PSA Risk Rating (From Table D3)	**PASS**
		Compliance rating	**PASS**

References

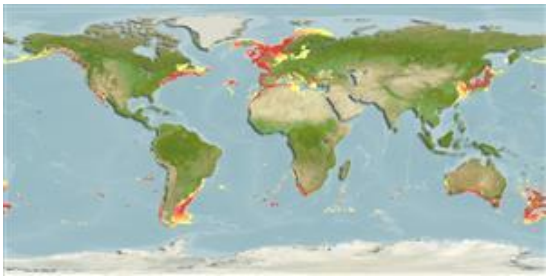

Figure 2. *Lophius piscatorius* global distribution. This map was computer-generated and has not yet been reviewed. Data sources: GBIF OBIS, Fishbase.

ICES. 2020. Anglerfish (*Lophius budegassa*, *Lophius piscatorius*) in subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat). *In* Report of the ICES Advisory Committee, 2020. ICES Advice 2020, anf.27.3a46. https://doi.org/10.17895/ices.advice.5926.

Fishbase. 2021. Lophius piscatorius, Linnaeus 1758, Angler. Accessed on 28/04/2021. Available at https://www.fishbase.se/summary/lophius-piscatorius.html

Fishbase. 2021. Life History Data on Lophius piscatorius Angler. Accessed on 28/04/2021. Available at https://www.fishbase.se/popdyn/KeyfactsSummary_1.php?ID=716&GenusName=Lophius&SpeciesName=piscatorius&vStockCode=732&fc=190
Standard clauses 1.3.2.2

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.

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