



MarinTrust Standard V2

By-product Fishery Assessment GBR12 - Anglerfish in FAO Area 27 ICES 4, 6 and 3a

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Anglerfish (<i>Lophius budegassa</i> and <i>Lophius piscatorius</i>)
	Geographical area:	FAO Area 27 Northeast Atlantic
	Country of origin of the product:	UK, Ireland
	Stock:	Anglerfish in Subareas 4 and 6, and Division 3.a (North Sea, Rockall and West of Scotland, and Skagerrak and Kattegat)
Date	June, 2024	
Report Code	GBR12	
Assessor	Jose Peiro Crespo	
Country of origin of the product - PASS	UK, Ireland	
Country of origin of the product - FAIL	None	

Application details and summary of the assessment outcome			
Company Name(s): Killybegs (Pelagia), Aberdeen (Pelagia), Grimsby (Pelagia)			
Country: UK, Ireland			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Jose Peiro Crespo	Sam Peacock	0.5	Surveillance 2
Assessment Period	June 2024 - June 2025		

Scope Details	
Main Species	Anglerfish (<i>Lophius budegassa</i> and <i>Lophius piscatorius</i>)
Stock	Anglerfish in Subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat)
Fishery Location	FAO Area 27 Northeast Atlantic
Management Authority (Country/ State)	National Authorities of United Kingdom and Republic of Ireland, and the European Union
Gear Type(s)	Primarily bottom (demersal) trawl
Outcome of Assessment	
Peer Review Evaluation	Agree with assessment outcome
Recommendation	Pass

Table 2. Assessment Determination

Assessment Determination
<p>Black-bellied anglerfish (<i>L. budegassa</i>) and white anglerfish (<i>L. piscatorius</i>) meets the eligibility criteria for approval as Marin Trust by-product raw material, as it is not categorized as Endangered or Critically Endangered on the Union for Conservation of Nature's Red List (IUCN) (Least Concern in the IUCN Red List) and they do not appear in CITES Appendix 1. Both stocks are managed relative to established (proxy) reference points and they have been assessed under Category C.</p> <p>Anglerfish (both species) is assessed under ICES framework for category 3 stocks (a Biomass index trigger value (Itrigger) is used to assess the status of the stock). The stock assessment processes take into account fishery removals from the stock. Therefore, it passes against Clause C1.1. The most recent stock assessment published in 2022 indicated that the biomass of the stock biomass is above Itrigger (proxy for the target reference point), thus the stock pass against C1.2.</p> <p>Consequently, Anglerfish in Subareas 4 and 6, and in Division 3.a (North Sea, Rockall and West of Scotland, Skagerrak and Kattegat) has been granted approval for the production of fishmeal and fish oil, adhering to the existing MarinTrust v2.3 by-products standard.</p>
Fishery Assessment Peer Review Comments
<p>The peer reviewer agrees that both anglerfish species are eligible for assessment under the MarinTrust byproduct assessment methodology, and that the combined stock falls into Category C. The most recent stock assessment was adequate to meet the requirements of C1.1, and biomass is currently estimated to be above the target reference point level, meeting the requirements of C1.2. Overall, the peer reviewer agrees that the combined anglerfish stock should be approved as a source of byproduct raw material for MarinTrust certified facilities.</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 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
Black-bellied anglerfish	<i>L. budegassa</i>	ICES S.a 4 and 6, Division 3a	Yes	C	Least concern ³	No
White anglerfish	<i>L. piscatorius</i>	ICES S.a 4 and 6, Division 3a	Yes	C	Least Concern ⁴	No

¹ <https://www.iucnredlist.org/>

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

³ <https://www.iucnredlist.org/species/198609/45128934>

⁴ <https://www.iucnredlist.org/species/198610/45128985>

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.

Species Name		Anglerfish (<i>Lophius budegassa</i> and <i>Lophius piscatorius</i>)	
C1	Category C Stock Status - Minimum Requirements		
	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.	Pass
	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.	Pass
Clause outcome:			Pass
<p>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.</p> <p>ICES framework for category 3 stocks is applied to the stock. A survey biomass index was used as an indicator of stock development. The advice is based on the recent advised catches (2022), multiplied by the ratio of the mean of the last two index values (index A) and the mean of the three preceding values (index B), a ratio of observed mean length in the catch relative to the target mean length, a biomass safeguard, and a precautionary multiplier. Official landings in 2021 were 20,006 tonnes. The discard rate (average 2007–2021) was 2.9%.</p> <p>Fishery removals of the species in the fishery under assessment are included in the stock assessment process. Therefore, the C1.1 is met.</p> <p>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.</p> <p>The most relevant reference point for this indicator is an MSY Btrigger proxy of 46,554 metric tons, referred to as Itrigger, which is defined as 1.4 times the lowest observed historical biomass index value in the period 2005-2022 (Iloss). According to the latest assessment, I2022 is greater than Itrigger, meaning that the stock complex can be considered above relevant limits for the purpose of assessing its status against the requirements of this indicator.</p> <p>The current advice has decreased by 30% compared to last year's advice because of a change in the advice method and a declining trend in the recent stock biomass.</p>			

Stock size indicator

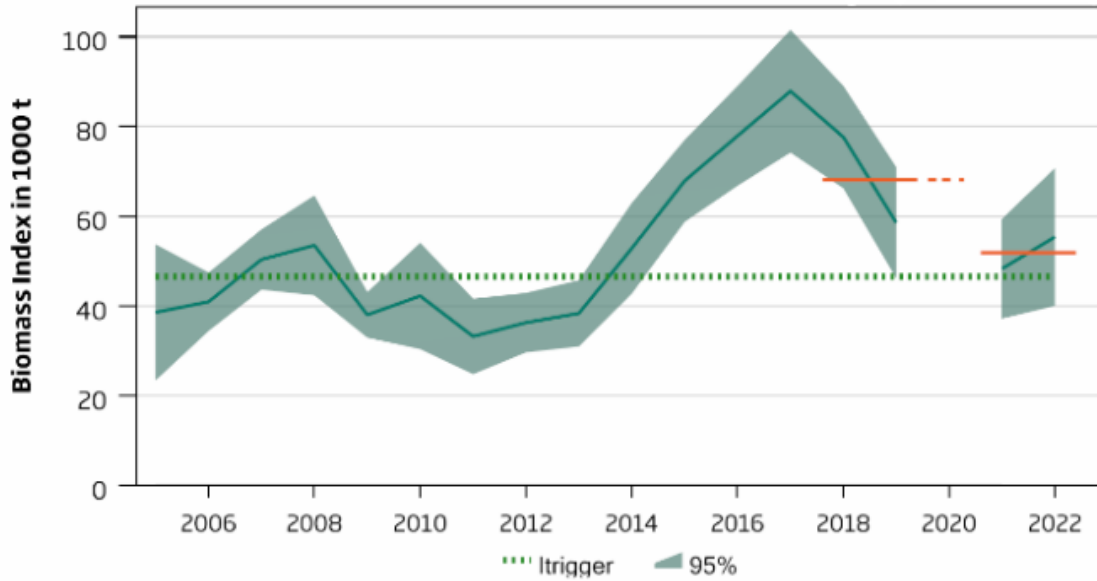


FIGURE 1 ANGLERFISH IN SUBAREAS 4 AND 6, AND IN DIVISION 3.A. STOCK BIOMASS FROM THE SIAMISS-Q2 SURVEY (*HORIZONTAL ORANGE LINES INDICATE THE AVERAGE OF THE MOST RECENT TWO YEARS, AND THE PREVIOUS THREE YEARS (WITH 2020 NOT AVAILABLE AND THEREFORE EXCLUDED FROM THE AVERAGE) (ICES 2022)

The biomass of the stock is above the limit reference point (or proxy). Therefore, the **C1.2 is met**.

References

ICES (2022). 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). ICES Advice: Recurrent Advice. Report. <https://doi.org/10.17895/ices.advice.19772359.v2>

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 Attribute	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 Attribute	Value	Score
	Availability (area overlap)		
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		
	Selectivity of gear type		
	Post-capture mortality		
	Average Susceptibility Score		
	PSA Risk Rating (From Table D3)		
	Compliance rating		
	Further justification for susceptibility scoring (where relevant) <i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i>		
	References		
Standard clauses 1.3.2.2			

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	Low susceptibility (Low 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	10-30% 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 Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	b Individuals < size at maturity can escape or avoid gear.	b Individuals < half the size at maturity can escape or avoid gear.	b 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	Evidence of majority released post-capture and survival.	Evidence of some released post-capture and survival.	Retained species or majority dead when released.

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

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 reasonable measures are taken to minimise these impacts.		
D4.2	There is no substantial evidence that the fishery has a significant negative impact on the species.		
			Outcome:
Evidence			
D4.1: The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.			
D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.			
References			
Links			
MarinTrust Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	