MarinTrust Standard V2

By-product Fishery Assessment

Ling (Molva molva) in FAO Area 27 Northeast Atlantic, ICES Subareas 1 and 2 (Northeast Arctic)

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Ling (*Molva molva*)
	Geographical area:	FAO Area 27 Northeast Atlantic
	Country of origin of the product:	France
	Stock:	Ling in ICES Subareas 1 and 2 (Northeast Artic)
Date	27 July 2023	
Report Code	FRA12	
Assessor	Matthew Jew	
Country of origin of the product - PASS	France	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Bioceval SAS - Concarneau			
Country: France			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Matthew Jew	Ivan Mateo	0.5	Surveillance 2
Assessment Period	Up to July 2023		

Scope Details	
Main Species	Ling (*Molva molva*)
Stock	Ling in ICES Subareas 1 and 2 (Northeast Artic)
Fishery Location	FAO Area 27 Northeast Atlantic
Management Authority (Country/ State)	European Union (Common Fisheries Policy)
Gear Type(s)	2022 Estimates: Gillnets (49%), Longlines (44%), Other (7%)
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's assessment
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
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. Ling (*Molva molva*) does not appear as Endangered or Critically Endangered on IUCN's Red List, and does not appear in CITES appendices; therefore, *Molva molva* is eligible for approval for use as Marin trust by-product raw material. One stock is part of this assessment: 1) *Molva molva* in FAO 27 ICES Subareas 1 and 2 (Northeast Artic). ICES cannot assess the stock and exploitation status relative to MSY and precautionary approach (PA) reference points because information to define reference points is not available. Therefore, following MarinTrust criteria, the species is assessed as Category D. Table D1 (PSA) shows that the stock as an average productivity score of 1.71 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes. Therefore, Ling in FAO 27 Subareas 1 and 2 (Northeast Artic) is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products standard.
Fishery Assessment Peer Review Comments
The assessor correctly classified the Ling in FAO 27 Subareas 1 and 2 (Northeast Artic) as category D, because information to define reference points is not available. Thus, this stock is not subject to a species-specific management regime. PSA analysis was correctly conducted. Table D1 (PSA) shows that the stock has an average productivity score of 1.71 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes. Therefore, I agree with the assessor that the Ling in FAO 27 Subareas 1 and 2 (Northeast Artic) should be APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.
Notes for On-site Auditor
N/A

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]
Ling	*Molva molva*	Ling in ICES Subareas 1 and 2 (Northeast Arctic)	European Union (Common Fisheries Policy)	D	LC	No

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[1] https://www.iucnredlist.org/
[2] https://cites.org/eng/app/appendices.php

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		Ling (*Molva molva*)	
	Productivity Attribute		**Value**	**Score**
	Average age at maturity (years)		4.2	1
	Average maximum age (years)		20.6	2
	Fecundity (eggs/spawning)		60,000,000+	1
	Average maximum size (cm)		141	2
	Average size at maturity (cm)		71.1	2
	Reproductive strategy		Pelagic Spawn (Broadcast spawner)	1
	Mean trophic level		4.4	3
		Average Productivity Score		**1.71**
	Susceptibility Attribute		**Value**	**Score**
	Availability (area overlap)		>30%	3
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		High risk	3
	Selectivity of gear type		High risk	3
	Post-capture mortality		Retained	3
		Average Susceptibility Score		**3**
		PSA Risk Rating (From Table D3)		**Pass**
		Compliance rating		

Further justification for susceptibility scoring (where relevant)

1. *Availability: The submitted stock is ICES subareas 1 & 2. This area is greater than 30% of the overall species geographic area.*

This map was computer-generated and has not yet been reviewed.
Molva molva   AquaMaps   Data sources: GBIF OBIS

2. *Encounterability: This stock is fished using gillnet, and longline. Ling is a demersal species and has high overlap with the given gear types.*
3. *Selectivity of gear type: The client did not provide any indication on gear used in the application. Gears identified previously were taken from ICES 2023 advice. As no gear was identified by the client and it cannot be further determined the level of selectivity of the gear, this attribute is scored as a 3 out of precaution.*
4. *Post-capture mortality: Retained species is scored as a 3.*

References

Fishbase. 2023. *Molva molva*. https://www.fishbase.se/summary/Molva-molva.html. Accessed 20 July 2023.

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