



MarinTrust Standard V2

By-product Fishery Assessment, FRA29- *Haddock (Melanogrammus aeglefinus)*, FAO 27, ICES Subarea 4, Division 6a and *Subdivision 20.*

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Haddock (<i>Melanogrammus aeglefinus</i>)
	Geographical area:	FAO 27 – North Sea, West of Scotland and Skagerrak
	Country of origin of the product:	Denmark
	Stock:	ICES Subarea 4, Division 6a and Subdivision 20
Date	September 2023	
Report Code	FRA29	
Assessor	Blanca Gonzalez	
Country of origin of the product - PASS	Denmark	
Country of origin of the product - FAIL	None	

Application details and summary of the assessment outcome			
Company Name(s): Copalis Industrie			
Country: France			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Blanca Gonzalez	Sam Peacock	0.5	Re-approval
Assessment Period	September 2023 – September 2024		

Scope Details	
Main Species	Haddock (<i>Melanogrammus aeglefinus</i>)
Stock	ICES Subarea 4, Division 6a and Subdivision 20
Fishery Location	North Sea, West of Scotland and Skagerrak
Management Authority (Country/ State)	EU and UK
Gear Type(s)	Demersal trawls and seine
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	Approve

Table 2. Assessment Determination

Assessment Determination
<p>Haddock (<i>Melanogrammus aeglefinus</i>) was assessed as a category C species considering that it is a Vulnerable species by the IUCN, it is not included in any CITES Appendixes, and is managed relative to established reference points.</p> <p>The International Council for the Exploration of the Sea (ICES) uses commercial catches data for stock assessment. The last assessment for haddock in Subarea 4, Division 6a and Subdivision 20 was published in June 2023, and results indicates that spawning-stock size is above MSY $B_{trigger}$, B_{pa}, and B_{lim}.</p> <p>The haddock by-product meets the Marin Trust requirements; therefore, it should remain approved for use as a raw material.</p>
Fishery Assessment Peer Review Comments
<p>The peer reviewer agrees with the decision to assess this byproduct under Category C. The assessor has provided adequate evidence that the stock is subject to regular stock assessments, and that the most recent of these concluded that stock biomass is considerably higher than the limit reference point. PR agrees that the byproduct should remain approved for use as a raw material.</p>
Notes for On-site Auditor
<p>There are no concerns that requires attention from the on-site assessor.</p>

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 a 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
Haddock	<i>Melanogrammus aeglefinus</i>	ICES Subarea 4, Division 6a and Subdivision 20	Yes	C	Vulnerable ³	No

¹ <https://www.iucnredlist.org/>

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

³ <https://www.iucnredlist.org/species/13045/3406968>

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		Haddock	
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

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.

Clause is met, considering that:

The International Council for exploration of the Sea (ICES) working group on the Assessment of Demersal Stocks in the North Sea and Skagerrak (WGNSSK) carried out the most recent stock assessments for haddock in the North Sea, West of Scotland and Skagerrak in 2023. Assessment was published in June 2023 using an Age-based analytical assessment that uses catches and surveys in the model and in the forecast t (ICES 2023) (Figure 1).

Catches

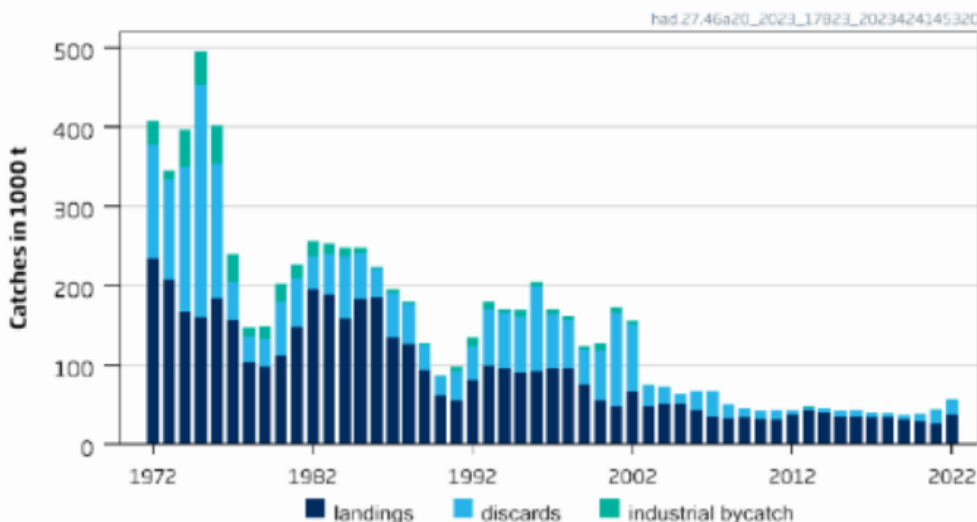


Figure 1. Haddock catches in Subarea 4, Division 6a and Subdivision 20 (ICES 2023).

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.

Clause is met, considering that:

The most recent stock assessment indicates that spawning-stock size is above $MSY B_{trigger}$, B_{pa} , and B_{lim} , where $MSY B_{trigger}$ and B_{pa} value is 189,734, and B_{lim} is 136,541. (ICES 2023) (Figure 2).

Spawning Stock Biomass

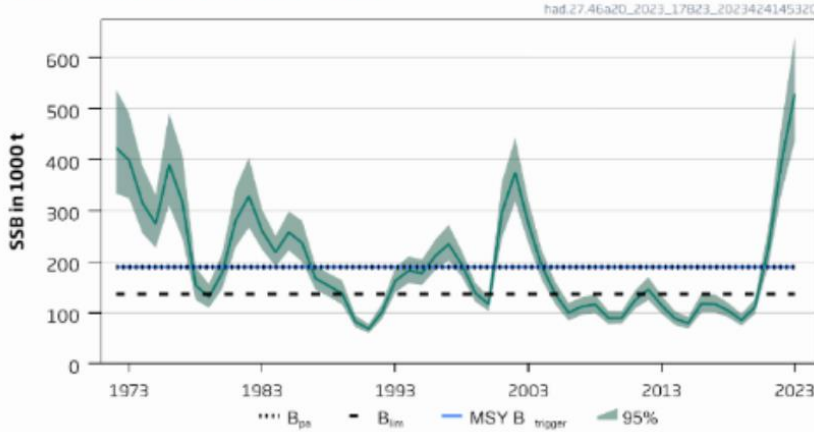


Figure 2. Haddock spawning biomass in Subarea 4, Division 6a and Subdivision 20 (ICES 2023).

References

ICES 2023. Haddock (*Melanogrammus aeglefinus*) in Subarea 4, Division 6.a, and Subdivision 20 (North Sea, West of Scotland, Skagerrak). ICES Advice: Recurrent Advice. Report. <https://doi.org/10.17895/ices.advice.21840795.v1>

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		
	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			
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	