



MarinTrust Standard V2

By-product Fishery Assessment Haddock (*Melanogrammus aeglefinus*), FAO 27, ICES 5.b (Faroes Grounds)

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 – Northeast Atlantic
	Country of origin of the product:	Denmark , Faroe Islands
	Stock:	ICES 5.b (Faroes grounds)
Date	May 2024	
Report Code	DNK14	
Assessor	Blanca Gonzalez	
Country of origin of the product - PASS	Denmark, Faroe Islands	
Country of origin of the product - FAIL	None	

Application details and summary of the assessment outcome			
Company Name(s): FF Skagen A/S, Thyborøn			
Country: Denmark			
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	Surveillance 2
Assessment Period	May 2024 – May 2025		

Scope Details	
Main Species	Haddock (<i>Melanogrammus aeglefinus</i>)
Stock	ICES 5.b (Faroe grounds)
Fishery Location	FAO 27 – Northeast Atlantic
Management Authority (Country/ State)	Faroe Islands
Gear Type(s)	Longline and trawl
Outcome of Assessment	
Peer Review Evaluation	Agree with assessment outcome
Recommendation	PASS

Table 2. Assessment Determination

Assessment Determination
<p>Haddock (<i>Melanogrammus aeglefinus</i>) was assessed as a category C species considering that it is a Least Concern species by the IUCN, it is not included in any CITES Appendixes, and the stock is managed using annual quotas relative to established reference points.</p> <p>Haddock in ICES Division 5.b (Faroe grounds) is subject to annual stock assessment by ICES Northwestern Working Group (NWWG).</p> <p>The last assessment was published in November 2023 using catches data in the model. Fishing pressure on the stock is below F_{MSY} and spawning-stock size is above $MSY B_{trigger}$, B_{pa}, and B_{lim}. Therefore, both clauses in the assessment were met.</p> <p>The haddock by-product meets the Marin Trust requirements and should remain approved for use as a raw material.</p>
Fishery Assessment Peer Review Comments
<p>The peer reviewer agrees that this species is eligible for assessment under the MarinTrust byproduct assessment methodology, and that the 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 this stock should be approved as a source of byproduct raw material for MarinTrust certified facilities.</p>
Notes for On-site Auditor
<p>None</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 5.b (Faroe grounds)	Yes	C	Least Concern ³	No

¹ <https://www.iucnredlist.org/>

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

³ <https://www.iucnredlist.org/species/13045/45097487>

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 (<i>Melanogrammus aeglefinus</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
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.			
The clause is met considering that:			
The haddock in the Faroe grounds (ICES Division 5.b) most recent assessment was published in November 2023 by The International Council for exploration of the Sea (ICES) Northwestern Working Group (NWWG). The assessment was carried out using an age-based stochastic analytical model (SAM) that uses catches data in the model and in the forecast., along with survey indices and annual maturity data. Thus, removals of the species are included in the stock assessment process (ICES 2023) (figure 1).			
<p>Catches</p> <p>Figure 1. Haddock catches in Division 5.b (Faroe grounds) since 1957. Catches in 2023 (light blue) are assumed and used in the assessment to produce an estimate of F in 2023 (ICES 2023).</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.

The Clause is met considering that:

The 2023 haddock assessment indicates that fishing pressure on the stock is below F_{MSY} (figure 1), and spawning-stock size is above $MSY B_{trigger}$, B_{pa} , and B_{lim} (figure 2). The catch advice is that when the MSY approach is applied, catches in 2024 should be no more than 12,145 tonnes. (ICES 2023).

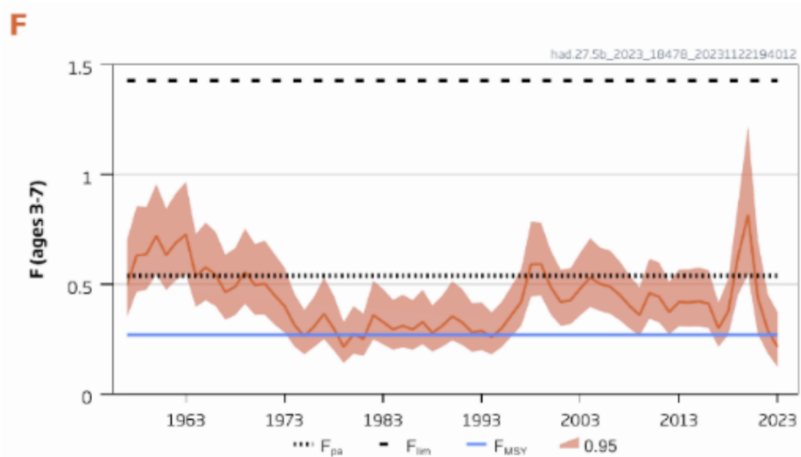


Figure 1. Haddock in Division 5.b (Faroe grounds) fishing pressure above F_{MSY} (ICES 2023).

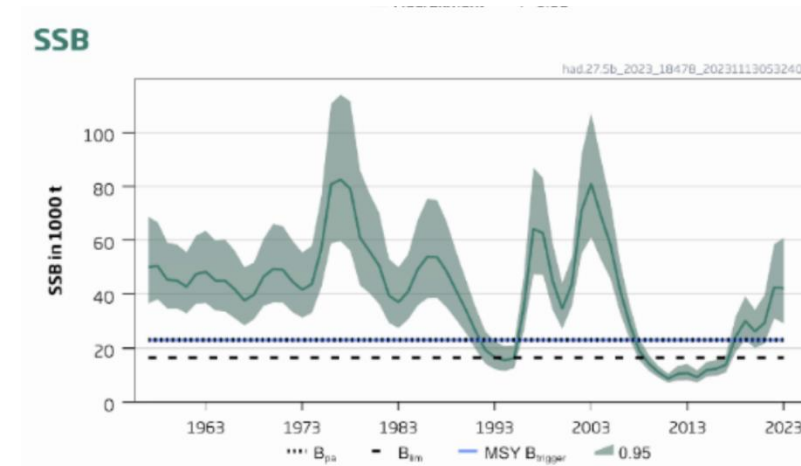


Figure 2. Spawning-stock size above $MSY B_{trigger}$, B_{pa} , and B_{lim} for haddock in Division 5.b (Faroe grounds) (ICES 2023)

References

ICES (2023). Haddock (*Melanogrammus aeglefinus*) in Division 5.b (Faroes grounds). ICES Advice: Recurrent Advice. Report. <https://doi.org/10.17895/ices.advice.21907938.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	NA	
	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	