MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme
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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Haddock (*Melanogrammus aeglefinus*)
	Geographical area:	FAO Area 27 North East Atlantic
	Country of origin of the product:	Denmark
	Stock:	Haddock in Subarea 4, Division 6.a and Subdivision 20 (North Sea, West of Scotland, Skagerrak)
Date		18 January 2022
Report Code		BP 005
Assessor		Geraldine Criquet
Country of origin of the product - PASS		Denmark
Country of origin of the product - FAIL		NA

Application details and summary of the assessment outcome			
Name: Skagen Triple Nine			
Address:			
Country: Denmark		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
Geraldine Criquet	Vito Romito	0.5	Surveillance 1
Assessment Period	To January 2022		

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Scope Details	
Main Species	Haddock (*Melanogrammus aeglefinus*)
Stock	Haddock in Subarea 4, Division 6.a and Subdivision 20 (North Sea, West of Scotland, Skagerrak)
Fishery Location	FAO Area 27 Northeast Atlantic Ocean
Management Authority (Country/ State)	European Union / Denmark management authority
Gear Type(s)	Demersal trawl and seine >100 mm, trawl 70-99 mm, and other
Peer Review Evaluation	Agree with approval
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. Haddock (*Melanogrammus aeglefinus*) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, haddock is eligible for approval for use as Marin Trust by-product raw material. An EU multiannual management plan (MAP) has been agreed by the EU for this stock. Reference points are defined for the stock, therefore it was assessed under category C. Fishery removals are included in the stock assessment process, it PASSES Clause C1.1. The stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point, it PASSES Clause C1.2. Therefore, haddock in Subarea 4, Division 6.a and Subdivision 20 (North Sea, West of Scotland, Skagerrak) is **APPROVED** for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.
Fishery Assessment Peer Review Comments
The stock is correctly assessed under category C. Catches are taken into account in the age-based stock assessment model and the most recent spawning-stock size index is above MSY Btrigger, Bpa and the limit reference point. Therefore, haddock in Subarea 4, Division 6.a and Subdivision 20 (North Sea, West of Scotland, Skagerrak) shall be approved for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.
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]
Haddock	*Melanogrammus aeglefinus*	Haddock in Subarea 4, Division 6.a and Subdivision 20 (North Sea, West of Scotland, Skagerrak)	European Union / Denmark	C	VU	No

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

CATEGORY C SPECIES

In a whole fish assessment, Category C species are those which make up less than 5% of landings, but which are subject to a species-specific management regime. In most cases this will be because they are a commercial target in a fishery other than the one under assessment.

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 (*Melanogrammus aeglefinus*)	
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.	Yes
	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.	Yes
	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 stock assessment type is an age-based analytical model (TSA) that uses catches in the model and the forecast. Input data include commercial catches (international landings, ages from catch sampling).
Catches are presented in Figure 1.
Therefore, fishery removals of the stock, including from the fishery under assessment, are included in the stock assessment process, **it PASSES Clause C1.1**

Figure 1. Haddock in Subarea 4, Division 6.a and Subdivision 20. Long-term trends in catches.

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 spawning-stock size is above MSY $B_{trigger}$, B_{pa} and B_{lim} (Figure 2).

Therefore, the stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point, **C1.2 is met.**
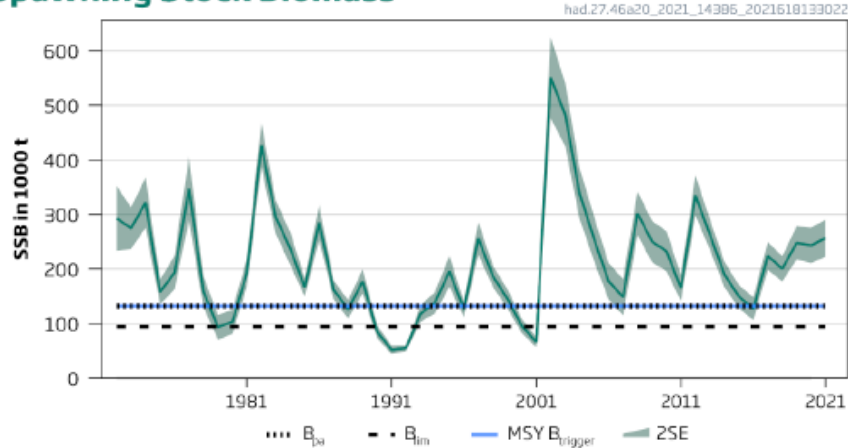

Figure 2. Haddock in Subarea 4, Division 6.a and Subdivision 20. Spawning stock biomass.

References

ICES. 2021. Haddock (*Melanogrammus aeglefinus*) in Subarea 4, Division 6.a, and Subdivision 20 (North Sea, West of Scotland, Skagerrak). *In* Report of the ICES Advisory Committee, 2021. ICES Advice 2021, had.27.46a20. https://doi.org/10.17895/ices.advice.7759.
https://www.ices.dk/sites/pub/Publication%20Reports/Advice/2021/2021/had.27.46a20.pdf

Sobel, J. 1996. *Melanogrammus aeglefinus*. *The IUCN Red List of Threatened Species* 1996: e.T13045A3406968. https://dx.doi.org/10.2305/IUCN.UK.1996.RLTS.T13045A3406968.en. Accessed on 19 January 2022.
https://www.iucnredlist.org/species/13045/3406968

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 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			
	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**
	Overlap of adult species range with fishery			
	Distribution			
	Habitat			
	Depth range			
	Selectivity			
	Post-capture mortality			
			Average Susceptibility Score	
			PSA Risk Rating (From Table D3)	
			Compliance rating	
Standard clauses 1.3.2.2				

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Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk — Score 3	Medium productivity/ Medium risk — Score 2	High productivity/ Low risk — 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 — Score 3	Medium susceptibility/ Medium risk — Score 2	Low susceptibility/ Low risk — 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

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