

MarinTrust Standard V2

By-product Fishery Assessment Horse mackerel (Subarea 8 and Div. 2.a, 4.a, 5.b, 6.a, 7.a-c, and 7.e-k)

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Table 1 Application details and summary of the assessment outcome

	Species:	Horse mackerel Trachurus trachurus
	Geographical area:	FAO 27 Northeast Atlantic
Fishery Under Assessment	Country of origin of the product:	Norway
	Stock:	Subarea 8 and Div. 2.a, 4.a, 5.b, 6.a, 7.a-c, and 7.e-k
Date	February 2022	
Report Code	BP016	
Assessor	Conor Donnelly	
Country of origin of the product - PASS	NORWAY	
Country of origin of the product - FAIL		

Application details and	d summary of the asse	essment outcome	2
Company Name(s): Pe	elagia		
Country: Norway			
Email address:		Applicant Cod	le:
Certification Body Det	ails		
Name of Certification	Body:	Global Trust C	Certification
		Assessment	Initial/Surveillance/
Assessor	Peer Reviewer	Days	Re-approval
Conor Donnelly	Vito Romito	0.5	Re-approval
Assessment Period	2022		

Scope Details	
Main Species	Horse mackerel
Stock	Subarea 8 and Div. 2.a, 4.a, 5.b, 6.a, 7.a-c, and 7.e-k
Fishery Location	Northeast Atlantic
Management Authority	Norway Ell
(Country/ State)	Norway, EU
Gear Type(s)	Pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Approve
Recommendation	Approve

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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. Horse mackerel (*Trachurus trachurus*) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, it is eligible for approval for use as Marin Trust by-product raw material.

ICES is not aware of any agreed management plan for Northeast Atlantic horse mackerel. An EU TAC is set and 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 just above the limit reference point, it PASSES Clause C1.2.

Therefore, horse mackerel in the Northeast Atlantic is **APPROVED** for the production of fishmeal and fish oil under the current Marin Trust v 2.0 Standard for by-products.

Fishery Assessment Peer Review Comments

Horse mackerel is correctly assessed under category C. The species in question is assessed by ICES using a length and age-based analytical assessment with commercial catch and survey inputs. The current stock level (SSB₂₀₂₁) is very low at 836 074 tonnes, and is estimated to be just above the B_{lim} value of 834 480 tonnes (SSB₂₀₂₁/B_{lim} = 100.2%). Accordingly, horse mackerel in the Northeast Atlantic shall be APPROVED for the production of fishmeal and fish oil under the current Marin Trust v 2.0 Standard for by-products.

Notes for On-site Auditor

None



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
Horse mackerel	Trachurus trachurus	Subarea 8 and Div. 2.a, 4.a, 5.b, 6.a, 7.a-c, and 7.e-k	Norway & EU CFP	С	VU	Not listed

¹ <u>https://www.iucnredlist.org/</u>

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

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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.

Spe	ecies	Name	Horse mackerel	
C1	Catego	or <mark>y C Stock St</mark> a	atus - Minimum Requirements	
CI	C1.1	Fishery remo	vals of the species in the fishery under assessment are included in the stock assessment	Yes
		process, OR	are considered by scientific authorities to be negligible.	
	C1.2	reference po	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	Yes
			Clause outcome:	PASS
	-		ne species in the fishery under assessment are included in the stock assessment proces horities to be negligible.	ss, OR are

The stock assessment is undertaken by ICES, the latest available is September 2021. It is a length and age-based analytical assessment (Stock Synthesis 3; NOAA Toolbox) which use commercial catch data (international catches, length and age data from catch sampling). It also uses three survey indices: Triennial egg survey index (I4189, 1992–2019); a combined recruitment index (2003–2020) derived from EVHOE (G9527), IGFS (G7212), SCOWCGFS (G4748 and G4815), and SWC-IBTS (G1179 and G4299); and the PELACUS acoustic biomass index (A2548, 1992–2019). Consequently, fishery removals of the species are included in the stock assessment process. **C1.1. is passed**.

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.



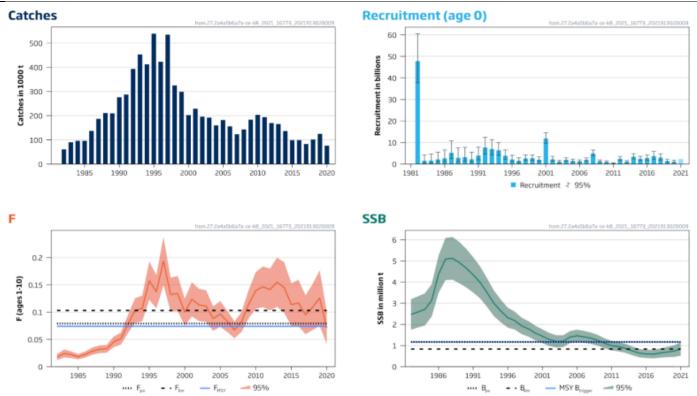


FIGURE 1. HORSE MACKEREL IN SUBAREA 8 AND DIVISIONS 2.A, 4.A, 5.B, 6.A, 7.A-C, AND 7.E-K. SUMMARY OF THE STOCK ASSESSMENT. THE ASSUMED RECRUITMENT VALUE FOR 2021 IS SHADED IN A PALER COLOUR (SOURCE: ICES, 2021).

The latest stock assessment information is shown in the figure above. A limit reference point is defined, B_{lim}, at 834 480 tonnes. The current stock level (SSB₂₀₂₁) is very low but at 836 074 tonnes is estimated to be just above B_{lim} (SSB₂₀₂₁/B_{lim} = 100.2%). 95% confidence interval values have been identified for the stock with a lower range of 520 294 tonnes and upper range of 1 151 854 tonnes. The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point, **C1.2 is passed.**

References

ICES. 2021. Horse mackerel (*Trachurus trachurus*) in Subarea 8 and divisions 2.a, 4.a, 5.b, 6.a, 7.a-c,e-k (the Northeast Atlantic). In Report of the ICES Advisory Committee, 2021. ICES Advice 2021, hom.27.2a4a5b6a7a-ce-k8. <u>https://doi.org/10.17895/ices.advice.7777</u>

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.

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	Scor
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 re	elevant)	
For susceptibility attributes, please provide a brief ration uncertainty affecting your decision	nale for scoring of parameters where t	there may i
nces		



Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	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 at	tribu	ites	High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
			Score 3	Score 2	Score 1
Availability 1	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 or<br="" size="">>5 m length</mesh>
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.

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D3	D3		Average Susceptibility Score		
		1 - 1.75	1.76 - 2.24	2.25 - 3	
Average Productivity	1 - 1.75	PASS	PASS	PASS	
Score	1.76 - 2.24	PASS	PASS	TABLE D4	
	2.25 - 3	PASS	TABLE D4	TABLE D4	

D4	Spe	cies Name		
	Impac	ts On Species Categorise	d as Vulnerable by D1-D3 - Minimum Requirements	
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.	
	D4.2	There is no substantia species.	I evidence that the fishery has a significant negative impact on the	
		·	Outcome:	
	The pot		shery on this species are considered during the management proces	s, and
D4.1: reasor	The pot nable me	easures are taken to mir		ss, and
D4.1: reasor	The pot nable me here is r	easures are taken to mir	imise these impacts.	ss, and
D4.1: reasor D4.2 T	The pot nable me here is r	easures are taken to mir	imise these impacts.	ss, and
D4.1: reasor D4.2 T Refere Links	The pot nable me There is r	easures are taken to mir	imise these impacts.	ss, and
D4.1: reasor D4.2 T Refere Links	The pot nable me here is r ences Trust Sta	easures are taken to min	imise these impacts. that the fishery has a significant negative impact on the species.	os, and

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