MarinTrust Standard V2

By-product Fishery Assessment Report Template

Table 1 Application details and summary of the assessment outcome
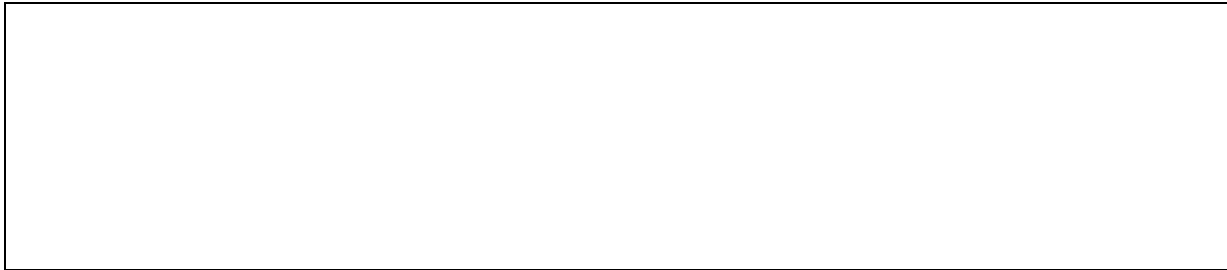
Fishery Under Assessment	Species:	Atlantic Chub Mackerel, *Scomber colias*
	Geographical area:	FAO Area 34 Atlantic, Eastern Central
	Country of origin of the product:	Morocco
	Stock:	North East Atlantic stock
Date	13/10/2021	
Report Code	BP204	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	Morocco	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: Morocco		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
Virginia Polonio	Geraldine Criquet	0.5	Surveillance 1
Assessment Period	To October 2021		

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Scope Details	
Main Species	Atlantic Chub Mackerel, *Scomber colias*
Stock	North East Atlantic stock
Fishery Location	FAO 34 Atlantic, Eastern Central, Morocco
Management Authority (Country/ State)	European Commission (EC), Morocco Ministère de l'Agriculture, de la Pêche Maritime, du Développement Rural et des Eaux et Forêts
Gear Type(s)	Purse seines
Peer Review Evaluation	Agree with the assessor's recommendation of 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 MarinTrust raw material. Atlantic chub mackerel (*Scombrus colias*), do not appear as Endangered or Critically Endangered on IUCN's Red List, nor do they appear in CITES appendices; therefore, of Atlantic chub mackerel (*Scombrus colias*) in FAO 34 is eligible for approval for use as MarinTrust by-product raw material. A unique stock in the North East Atlantic is defined. Despite the abundance and economic importance of Atlantic chub mackerel (*Scombrus colias*) throughout its habitat, knowledge about its biology and population dynamics is still scarce. There is no formal assessment and references points are not defined for this stock. Therefore, the stock has been assessed under category D. Hence, due to the lack of scientific information on the status of the stock, a risk-assessment style approach was taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) approach as per MarinTrust v 2.0 procedures for Category D species. Table D1 (PSA) has achieved a PASS therefore, the average for the PSA risk rating results in the species passing D1. Therefore, the North East Atlantic chub mackerel stock in FAO Area 34 is **APPROVED** by the assessors in the assessment area for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standard.
Fishery Assessment Peer Review Comments
The assessor correctly classified the North East Atlantic chub mackerel stock as category D, reference points are not defined to assess status of the stock relative to. With an average productivity score of 1.66 and an average susceptibility score of 2.25, the North East Atlantic chub mackerel PASSES Clause D1 in accordance with Table D3. Therefore, the North East Atlantic chub mackerel should be approved.
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]
Atlantic chub mackerel stock	*Scombrus colias*	North East Atlantic	European Commission (EC), Morocco Ministère de l'Agriculture, de la Pêche Maritime, du Développement Rural et des Eaux et Forêts	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 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

D1	Species Name	Atlantic Chub Mackerel (*Scomber colias*)	
	Productivity Attribute	**Value**	**Score**
	Average age at maturity (years)	2.9	2
	Average maximum age (years)	12.4	2
	Fecundity (eggs/spawning)	Unknown	-
	Average maximum size (cm)	35.1	1
	Average size at maturity (cm)	21.5	1
	Reproductive strategy	Non-guarders: open water/substratum egg scatterers	1
	Mean trophic level	3.9	3
		Average Productivity Score	**1.66**
	Susceptibility Attribute	**Value**	**Score**
	Overlap of adult species range with fishery	Not scored	Not scored
	Distribution	Throughout region	1
	Habitat	Pelagic	2
	Depth range	20-200m	3
	Selectivity	1 to 2 times mesh size	2
	Post-capture mortality	Most dead/retained	3
		Average Susceptibility Score	**2.25**
		PSA Risk Rating (From Table D3)	**PASS**
		Compliance rating	**PASS**

References

Collette, B., Amorim, A.F., Boustany, A., Carpenter, K.E., de Oliveira Leite Jr., N., Di Natale, A., Fox, W., Fredou, F.L., Graves, J., Viera Hazin, F.H., Juan Jorda, M., Kada, O., Minte Vera, C., Miyabe, N., Nelson, R., Oxenford, H., Teixeira Lessa, R.P. & Pires Ferreira Travassos, P.E. 2011. Scomber colias. The IUCN Red List of Threatened Species 2011: e.T170357A6767497. https://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170357A6767497.en

CITES http://checklist.cites.org/#/en https://www.fishbase.se/summary/54736
https://www.fishsource.org/stock_page/1823

Standard clauses 1.3.2.2

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

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.	

<table>
<tr><td colspan="3" align="center">Outcome:</td></tr>
</table>

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

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