



MarinTrust Standard V2

By-product Fishery Assessment, MAR005

Atlantic Chub Mackerel (Scomber colias), FAO 34

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Table 1 Application details and summary of the assessment outcome

	Species:	Atlantic chub mackerel (Scomber colias)
	Geographical area:	FAO 34, Atlantic, Eastern Central
Fishery Under Assessment	Country of origin of the product:	Morocco
	Stock:	FAO 34, Atlantic, Eastern Central
Date	October 2023	
Report Code	MAR005	
Assessor	Blanca Gonzalez	
Country of origin of the product - PASS	Morocco	
Country of origin of the product - FAIL	None	

Application details and	l summary of the assess	sment outcome	
Company Name(s): Cl	BEL I, CIBEL II, Copelit S	ARL, KB Fish , N	ouvelle Ougala, Pescasud SARLAU,
Protein and Oil Industr	y, Sovapec, TANTASAR		
Country: Morocco			
Email address:		Applicant Cod	e:
Certification Body Deta	ails		
Name of Certification I	Body:	LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Blanca Gonzalez	Jose Peiro Crespo	0.5	Re-approval
Assessment Period	October 2023 – Octob	er 2024	

Scope Details	
Main Species	Atlantic chub mackerel (Scomber colias)
Stock	FAO 34, Atlantic, Eastern Central
Fishery Location	FAO 34, Atlantic, Eastern Central
Management Authority	European Commission (EC), Morocco Ministry of Agriculture and
(Country/ State)	Marine Fisheries (MAMF)
Gear Type(s)	Purse seine
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Approve

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Table 2. Assessment Determination

Assessment Determination

Atlantic chub mackerel (*Scomber colias*) stock was assessed as a category C species considering that it is a Least Concern species by the IUCN, it is not in included in any CITES Appendixes, and the FAO Working Group on the Assessment of Small Pelagic Fish off Northwest Africa meets annually to update stock assessments and provide advice for management for the main small pelagic species and stocks in the region.

The last stock assessment for this species was carried out in 2022 and results indicates that the stock is fully exploited, which means that the fishery operates within the limits of sustainability, and current fishing pressure seems sustainable and can be maintained. Catches have been recorded since 1990 and this data is included in the stock assessment. Since no specific information about the stock biomass in reference to the BMSY was included in the available summary report of the results of the work of the CECAF Working Group on the Assessment of Small Pelagic Fish off Northwest Africa, and considering that the stock is fully exploited, the chub mackerel was assessed also as category D species.

In the Productivity-Susceptibility Analysis (PSA) the Atlantic chub mackerel was awarded an average productivity score of 1.29 and an average susceptibility score of 2.5, and it passed against Table D3.

The Atlantic chub mackerel Byproduct meets the Marin Trust requirements and it should remain approved for use as a raw material.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment is the Atlantic chub mackerel (*Scomber colias*) purse seine fishery in FAO 34 – Atlantic, Eastern Central. The species is classified as LC by the IUCN. The stock is managed using biomass reference points. Therefore, it is assessed under category C.

The most recent assessment conducted by the CECAF working group subgroup North indicates that the stock is below the target reference point ($B_{0.1}$). However, no information is given about the status of the stock in regard to the limit reference point (B_{MSY}). Therefore, a precautionary approach is taken, the assessor considers that it fails category C, and it is then assessed under category D.

In the Productivity-Susceptibility Analysis (PSA) the Atlantic chub mackerel awards an average productivity score of 1.29 and an average susceptibility score of 2.5, and there it passed category D.

The peer review supports the auditor's recommendation to pass the Atlantic chub mackerel purse seine fishery in the Atlantic, Eastern Central (FAO area 34) under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

Notes for On-site Auditor

There are no concerns that requires attention from the on-site assessor.



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
Atlantic chub	Scomber	FAO 34,	Yes	С	Least Concern ³	No
mackerel	colias	Atlantic,				
		Eastern Central				

¹ <u>https://www.iucnredlist.org/</u>

² https://	/cites.org/	eng/	/app/	appendices.php	
11(1)3.//	cites.org/	Clig/	app	appendices.php	

³ https://www.iucnredlist.org/species/170357/6767497

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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.



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Since no specific information about the Atlantic chub mackerel stock biomass in reference to the BMSY was included in the available summary report of the results of the work of the CECAF Working Group on the Assessment of Small Pelagic Fish off Northwest Africa, and considering that the stock is fully exploited, a precautionary approach is considered and it is assessed under category D.

References

FAO 2022. Fishery Committee for the Eastern Central Atlantic. Small pelagic fish Working Group North. <u>https://www.fao.org/3/cc3286b/cc3286b.pdf</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	Atlantic chub mackerel (Scomber colid	as)
Productivity Attribut	te Value	Score
Average age at maturity (years)	1.9 ¹	1
Average maximum age (years)	7.7 ¹	1
Fecundity (eggs/spawning)	41,325 – 494,500 ¹	1
Average maximum size (cm)	55 ¹	1
Average size at maturity (cm)	22.9 ¹	1
Reproductive strategy	Broadcast spawners ¹	1
Mean trophic level	3.9 ¹	3
	Average Productivity Score	1.29
Susceptibility Attribu	te Value	Scor
Availability (area overlap)	<10% overlap ¹⁻³	1
Encounterability (the position of the s within the water column relative to the		3
Selectivity of gear type	Individuals < size at maturity are frequently caught ²	3
Post-capture mortality	Retained ²	3
	Average Susceptibility Score	2.5
	PSA Risk Rating (From Table D3)	PASS
	Compliance rating	PASS
Further justification for susceptibility For susceptibility attributes, please pr uncertainty affecting your decision	i scoring (where relevant) ovide a brief rationale for scoring of parameters where t	there may
	ovide a brief rationale for scoring of parameters where t	h

2 FAO 2022. Fishery Committee for the Eastern Central Atlantic. Small pelagic fish Working Group North. https://www.fao.org/3/cc3286b/cc3286b.pdf

3 https://www.fao.org/fishery/en/area/34/en

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		ow susceptibility .ow risk, score = 1)		edium susceptibility nedium risk, score = 2)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap	10	-30% overlap		0% 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	fis	w overlap with hing gear (low counterability).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high counterability). efault score for rget species
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught
Potential of the gear to retain species	ь	Individuals < size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity can escape or avoid gear.	ь	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	re	vidence of majority leased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.

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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	ss, 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.	ss, and