MarinTrust Standard V2

By-product Fishery Assessment
ESP30
Pacific chub mackerel
(Scomber japonicus)
in FAO 87 (Pacific Southeast)

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Table 1 Application details and summary of the assessment outcome

	Species:	Pacific chub mackerel (*Scomber japonicus*)
Fishery Under Assessment	Geographical area:	FAO 87, Pacific Southeast
	Country of origin of the product:	Spain Flag countries: Spain and Portugal
	Stock:	Pacific chub mackerel in FAO 87, Pacific Southeast
Date		October 2024
Report Code		ESP30
Assessor		Ana Elisa Almeida Ayres
Country of origin of the product - PASS		Spain Flag countries: Spain and Portugal
Country of origin of the product - FAIL		N/A

Application details and summary of the assessment outcome			
Company Name(s): Arteixo			
Country: Spain Flag countries: Spain and Portugal			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		NSF / Global Trust Certification Ltd	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Ana Elisa Almeida Ayres	Léa Lebechnech	0.5	Re-approval
Assessment Period	October 2024 – October 2025		

Scope Details	
Main Species	Pacific chub mackerel (*Scomber japonicus*)
Stock	Pacific chub mackerel in FAO 87, Pacific Southeast
Fishery Location	FAO 87, Pacific Southeast
Management Authority (Country/ State)	South Pacific Regional Fisheries Management Organisation (SPRFMO)
Gear Type(s)	Pelagic trawl, purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	**APPROVED**

Table 2. Assessment Determination

Assessment Determination
If any species is categorised as Endangered or Critically Endangered on Union for Conservation of Nature's Red List of Threatened Species - IUCN's Red List, or if it appears in the Convention on International Trade in Endangered Species of Wild Fauna and Flora - CITES appendices, it cannot be approved for use as MarinTrust raw material. Pacific chub mackerel (*Scomber japonicus*) is not categorised as Endangered or Critically Endangered on IUCN's Red List and does not appear in CITES appendices; therefore, Pacific chub mackerel (*Scomber japonicus*) is eligible for approval for use as Marin Trust by-product raw material. The Scientific Committee of the South Pacific Regional Fisheries Management Organisation (SPRFMO) recommend that chub mackerel should be considered for future stock assessments even if data are limited The Scientific Committee of the South Pacific Regional Fisheries Management Organisation (SPRFMO) recommend that chub mackerel should be considered for future stock assessments even if data are limited.[1] The stock was awarded a Productivity score of 1.29 and a Susceptibility score of 2.0, leading to a "Pass" rating against Table D3 of the Productivity-Susceptibility Analysis – PSA. Therefore, Pacific chub mackerel (*Scomber japonicus*) in FAO 87, Pacific Southeast is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products standard.
Fishery Assessment Peer Review Comments
The assessor correctly classified Pacific chub mackerel (*Scomber japonicus*) in FAO 87, Pacific Southeast under category D, as there is no stock assessment neither reference points defined to assess the stock status against. The stock was awarded a Productivity score of 1.29 and a Susceptibility score of 2, leading to a "Pass" rating against Table D3. Therefore, Pacific chub mackerel in FAO 87, Pacific Southeast is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust V2.3 by-products standards.
Notes for On-site Auditor
N/A

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[1] SPRFMO (2023). 11th Scientific Committee meeting report 91 p. Wellington, New Zealand 2023. https://www.sprfmo.int/assets/Meetings/02-SC/11th-SC-2023/SPRFMO-SC11-Report_rev1-17-Oct.pdf

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[2]	CITES Appendix 1[3]
Pacific chub mackerel	*Scomber japonicus*	Pacific chub mackerel in FAO 87, Pacific Southeast	Yes	D	LC[4]	No

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[2] https://www.iucnredlist.org/
[3] https://cites.org/eng/app/appendices.php
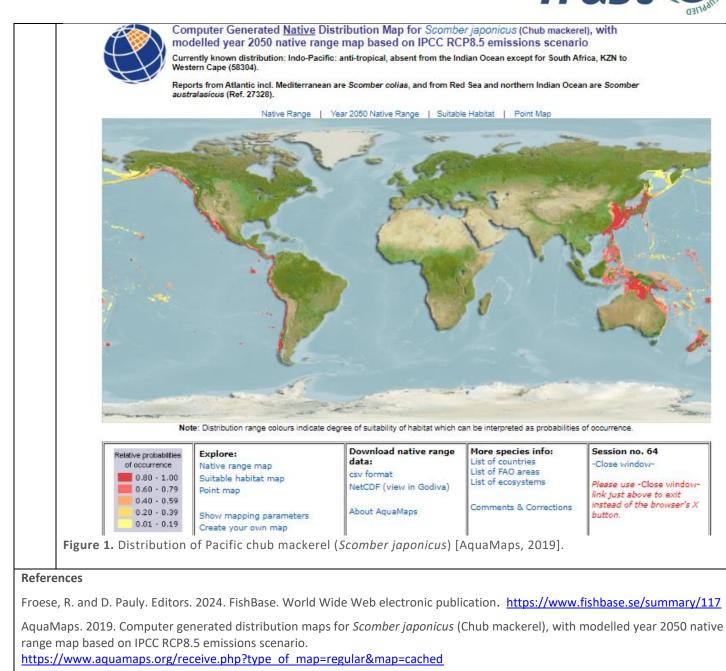[4] https://www.iucnredlist.org/species/170306/6737373

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	Pacific chub mackerel (*Scomber japonicus*)	
Productivity Attribute		**Value**	**Score**
Average age at maturity (years)		2	1
Average maximum age (years)		7.9	1
Fecundity (eggs/spawning)		135,962 [86,616-213,422]	1
Average maximum size (cm)		38.1	1
Average size at maturity (cm)		22	1
Reproductive strategy		Broadcast spawner	1
Mean trophic level		3.4	3
		Average Productivity Score	**1.29**
Susceptibility Attribute		**Value**	**Score**
Availability (area overlap)		<10 % overlap	1
Encounterability (the position of the stock/species within the water column relative to the fishing gear)		High	3
Selectivity of gear type		High	3
Post-capture mortality		Retained	3
		Average Susceptibility Score	**2.5**
		PSA Risk Rating (From Table D3)	**PASS**
		Compliance rating	**PASS**

Further justification for susceptibility scoring (where relevant)
For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision

Pacific chub mackerel (*Scomber japonicus*) is found in Indo-Pacific: anti-tropical, absent from the Indian Ocean except for South Africa, KZN to Western Cape (Froese and Pauly, 2024). The client did not provide details of the gear used to harvest the species, and the selectivity of the gear cannot be determined. Thus, it was awarded a score of 3 out of precaution.

Computer Generated Native Distribution Map for *Scomber japonicus* (Chub mackerel), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario

Currently known distribution: Indo-Pacific: anti-tropical, absent from the Indian Ocean except for South Africa, KZN to Western Cape (58304).

Reports from Atlantic incl. Mediterranean are *Scomber colias*, and from Red Sea and northern Indian Ocean are *Scomber australasicus* (Ref. 27328).

Native Range | Year 2050 Native Range | Suitable Habitat | Point Map

Note: Distribution range colours indicate degree of suitability of habitat which can be interpreted as probabilities of occurrence.

Relative probabilities of occurrence	Explore:	Download native range data:	More species info:	Session no. 64
0.80 - 1.00	Native range map	csv format	List of countries	-Close window-
0.60 - 0.79	Suitable habitat map	NetCDF (view in Godiva)	List of FAO areas	*Please use -Close window- link just above to exit instead of the browser's X button.*
0.40 - 0.59	Point map		List of ecosystems	
0.20 - 0.39	Show mapping parameters	About AquaMaps	Comments & Corrections	
0.01 - 0.19	Create your own map			

Figure 1. Distribution of Pacific chub mackerel (*Scomber japonicus*) [AquaMaps, 2019].

References

Froese, R. and D. Pauly. Editors. 2024. FishBase. World Wide Web electronic publication. https://www.fishbase.se/summary/117

AquaMaps. 2019. Computer generated distribution maps for *Scomber japonicus* (Chub mackerel), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario.
https://www.aquamaps.org/receive.php?type_of_map=regular&map=cached

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

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