

## MarinTrust Standard V2

## By-product Fishery Assessment Thailand Pacific Chub Mackerel in FAO 61 Pacific Northwest

MarinTrust Programme Unit C, Printworks 22 Amelia Street London SE17 3BZ E: <u>standards@marin-trust.com</u> T: +44 2039 780 819



# Table 1 Application details and summary of the assessment outcome

	Species:	Pacific Chub Mackerel (Scomber japonicus)
	Geographical area:	FA0 61 Pacific Northwest
Fishery Under Assessment	Country of origin of the product:	Thailand (Flag Country)
	Stock:	Pacific Northwest
Date	May 2022	
Report Code	THA12	
Assessor	Ivan Mateo	
Country of origin of the product - PASS	Thailand (Flag Country)	
Country of origin of the product - FAIL	NA	

Application details and	d summary of the asse	essment outcome	2
Company Name(s):			
Country: Thailand			
Email address:		Applicant Cod	le:
<b>Certification Body Det</b>	ails		
Name of Certification	Body:	Global Trust C	Certification
Assessor Peer Reviewer		Assessment	Initial/Surveillance/ Re-approval
		Days	
Ivan Mateo	Vito Romito	0.5	Surveillance 2
Assessment Period	To May 2022		

Scope Details	
Main Species	Pacific Chub Mackerel (Scomber japonicus)
Stock	Thailand/International waters
Fishery Location	FA0 61 Pacific Northwest
Management Authority	International
(Country/ State)	
Gear Type(s)	Pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Approve
Recommendation	Approve

Marine Ingredients Certifications Ltd (09357209) | Doc FISH1- Issued January 2022 – Version 2.2 | Approved by Libby Woodhatch Controlled Copy- No unauthorised copying or alteration permitted

### Table 2. Assessment Determination

#### **Assessment Determination**

If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in the CITES appendices, it cannot be approved for use as IFFO RS raw material. Pacific chub mackerel (*Scomber japonicus*) does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in the CITES appendices; and is therefore eligible for approval for use as IFFO-RS raw material.

Pacific chub mackerel in Thailand is not subject to a species-specific research and management regime sufficient to pass a Category C assessment.

The comparative lack of scientific information on the status of the Pacific chub mackerel population in the assessment area means that a risk-assessment style approach must be taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) as per IFFO-RS v 2.2 procedures for Category D species.

The species has passed this risk-based assessment (Table D3) and is **APPROVED** in the assessment area by the assessor for the production of fishmeal and fish oil under the IFFO-RS v 2.2 by-products standard.

#### Fishery Assessment Peer Review Comments

The assessor has correctly categorise the stock as Category D due to lack of stock specific stock assessment information and reference point. Accordingly, the fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) as per IFFO-RS v 2.2 procedures for Category D species, and passed.

Hence, Pacific chub mackerel (*Scomber japonicus*) shall be APPROVED for the production of fishmeal and fish oil under the IFFO-RS v 2.2 by-products standard.

#### **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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Pacific chub	Scomber	FA0 61 Pacific	International	D	LC	No
mackerel	japonicus	Northwest				

<sup>&</sup>lt;sup>1</sup> <u>https://www.iucnredlist.org/</u>

<sup>&</sup>lt;sup>2</sup> <u>https://cites.org/eng/app/appendices.php</u>

Marine Ingredients Certifications Ltd (09357209) | Doc FISH1- Issued January 2022 – Version 2.2 | Approved by Libby Woodhatch Controlled Copy- No unauthorised copying or alteration permitted

## **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	Pacific chub mackerel	
<b>C1</b>	Catego	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1		ovals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	No Pass
	C1.2	reference po	is considered, in its most recent stock assessment, to have a biomass above the limit pint (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	No Pass
			Clause outcome:	No Pass
Categ The c mean <b>C1.2</b>	ory C ass omparat to that a f <b>The spec</b>	sessment. The live lack of sc risk-assessme cies is conside	hailand is not subject to a species-specific research and management regime sufficient ere was no information on landings from Thailand. ientific information on the status of the Pacific chub mackerel population in the assessr nt style approach must be taken. ered, in its most recent stock assessment, to have a biomass above the limit reference e fishery under assessment are considered by scientific authorities to be negligible.	ment area
Pacifi Categ	c chub r sory C ass	nackerel in Tl sessment.	hailand is not subject to a species-specific research and management regime sufficient ientific information on the status of the Pacific chub mackerel population in the assessr	to pass a
	is that a i	risk-assessme	nt style approach must be taken. The stock was assessed as category D.	ment area
mean	s that a i	risk-assessme	nt style approach must be taken. The stock was assessed as category D.	ment area
mean	ences	risk-assessme	nt style approach must be taken. The stock was assessed as category D.	ment area
mean Refer Links	ences	risk-assessme		ment area
mean Refer Links	ences nTrust St			ment area



### 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	Pacific chub mackerel	
Productivity Attribute	Value	Score
Average age at maturity (years)	2 years	2
Average maximum age (years)	7.9 years	1
Fecundity (eggs/spawning)	135,962 eggs	1
Average maximum size (cm)	38.1	1
Average size at maturity (cm)	22 cm	1
Reproductive strategy	Open water egg scatterer	1
Mean trophic level	3.4	3
	Average Productivity Score	1.42
Susceptibility Attribute	Value	Score
Availability (area overlap)	30%. The stock occurs in a	
	large geographical area.	2
Encounterability (the position of the stock/ within the water column relative to the fish	large geographical area.	2
Encounterability (the position of the stock/	large geographical area.	
Encounterability (the position of the stock/ within the water column relative to the fish	large geographical area.	1
Encounterability (the position of the stock/ within the water column relative to the fish Selectivity of gear type	large geographical area.       'species       Pelagic       ning gear)       1 to 2 times mesh size	1
Encounterability (the position of the stock/ within the water column relative to the fish Selectivity of gear type	large geographical area.       'species       Pelagic       ing gear)       1 to 2 times mesh size       Mostly dead/retained.	1 2 3

uncertainty affecting your decision

#### References

Froese, R. and D. Pauly. Editors. 2022. FishBase. World Wide Web electronic publication www.fishbase.org, version (02/2022).

Standard clauses 1.3.2.2



## 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	tributes	High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk	
		Score 3	Score 2	Score 1	
Availability	<ol> <li>Overlap of adult species range with fishery</li> </ol>	>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="">&gt;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.

Marine Ingredients Certifications Ltd (09357209) | Doc FISH1- Issued January 2022 – Version 2.2 | Approved by Libby Woodhatch Controlled Copy- No unauthorised copying or alteration permitted



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

<b>D4</b>	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	
		<b>.</b> .	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		s, and
D4.1: reasor	The pot nable me here is r	easures are taken to mir	imise these impacts.	s, and
D4.1: reasor D4.2 T	The pot nable me here is r	easures are taken to mir	imise these impacts.	s, and
D4.1: reasor D4.2 T Refere Links	The pot nable me There is r	easures are taken to mir	imise these impacts.	s, 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.	s, and

Marine Ingredients Certifications Ltd (09357209) | Doc FISH1- Issued January 2022 – Version 2.2 | Approved by Libby Woodhatch Controlled Copy- No unauthorised copying or alteration permitted