

MarinTrust Standard V2

By-product Fishery Assessment Pacific Chub Mackerel (*Scomber japonicus*), FAO 61 (Northwest Pacific)

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Pacific chub mackerel (Scomber japonicus)		
	Geographical area:	FAO 61 – Northwest Pacific		
Fishery Under Assessment	Country of origin of the product:	Thailand, China, Japan		
	Stock:	FAO 61 – Northwest Pacific		
Date	May 2024			
Report Code	THA12			
Assessor	Blanca Gonzalez			
Country of origin of the product - PASS	Thailand, China, Japan None			
Country of origin of the product - FAIL				

Application details and	d summary of the asses	sment outcome					
Company Name(s): Piy	o Bhokabhan Co. Ltd, C	Golden Prize Ca	nning, South East Asian Packaging and				
Canning Ltd, TC Union Agrotech Co. Ltd, Asian Alliance International Public Company Limited							
Country: Thailand							
Email address:		Applicant Cod	e:				
Certification Body Det	ails						
Name of Certification	Body:	LRQA					
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval				
Blanca Gonzalez Sam Peacock 0.5 Surveillance 1							
Assessment Period	May 2024 – May 2025)					

Scope Details	
Main Species	Pacific chub mackerel (Scomber japonicus)
Stock	FAO 61 – Northwest Pacific
Fishery Location	FAO 61 – Northwest Pacific
Management Authority (Country/ State)	North Pacific Fisheries Commission (NPFC) / International
Gear Type(s)	Pelagic trawl
Outcome of Assessment	
Peer Review Evaluation	Agree with assessment outcome
Recommendation	PASS



Table 2. Assessment Determination

Assessment Determination

Pacific chub mackerel (*Scomber japonicus*) is categorised by the IUCN as Least Concern, do not appear in the CITES appendices, and no stock assessment has been conducted by the North Pacific Fisheries Commission for the convention area so far (NPFC 2023). Therefore, it was assessed under Category D.

The Technical Working Group on Chub mackerel Stock Assessment (TWG CMSA) started working in January 2024 in conducting the first stock assessment of Chub mackerel; the process is still in progress. (NPFC 2024)

In the Productivity-Susceptibility Analysis (PSA) the plaice awarded an average productivity score of 1.29 and an average susceptibility score of 2.75 passing against Table D3, indicating that the stock is not vulnerable to the fisheries in the Northwest Pacific.

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

NPFC (2023). North Pacific Fisheries Commission. 8th Scientific Committee Meeting Report. https://www.npfc.int/sites/default/files/2024-03/SC08%20Report.pdf

NPFC (2024). North Pacific Fisheries Commission. 8th Meeting of the Technical Working Group on Chub Mackerel

Stock Assessment. https://www.npfc.int/sites/default/files/2024-03/TWG%20CMSA08%20Report.pdf

Fishery Assessment Peer Review Comments

The peer reviewer agrees that this species is eligible for assessment under the MarinTrust byproduct assessment methodology, and that due to a lack of stock-specific management or stock assessment, the stock falls into Category D. The PSA has been conducted correctly and the peer reviewer agrees with the Pass outcome for this byproduct material.

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
Pacific chub	Scomber	FAO 61 (Pacific	No	D	Least Concern ³	No
mackerel	japonicus	Northwest)				

¹ https://www.iucnredlist.org/

² https://cites.org/eng/app/appendices.php

³ https://www.iucnredlist.org/species/170306/170083106



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.

Species Name			NA						
C1	Catego	ory C Stock Sta	atus - Minimum Requirements						
CI	C1.1	Fishery remo	ovals of the species in the fishery under assessment are included in the stock assessment						
		process, OR a	process, OR are considered by scientific authorities to be negligible.						
	C1.2	The species is 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.						
			Clause outcome:						
consid	dered by The spec	y scientific aut cies is conside	ne species in the fishery under assessment are included in the stock assessment proces chorities to be negligible. Pered, in its most recent stock assessment, to have a biomass above the limit reference of fishery under assessment are considered by scientific authorities to be negligible.						
C1.2 Tproxy	dered by The spec), OR re	y scientific aut cies is conside	chorities to be negligible.						
consid	dered by The spec), OR re	y scientific aut cies is conside	chorities to be negligible. ered, in its most recent stock assessment, to have a biomass above the limit reference						
consideration C1.2 To proxy	dered by The spec), OR re	y scientific aut cies is conside	chorities to be negligible. ered, in its most recent stock assessment, to have a biomass above the limit reference						
C1.2 proxy Refer	dered by The spec), OR re ences	y scientific aut cies is conside	chorities to be negligible. Pered, in its most recent stock assessment, to have a biomass above the limit reference fishery under assessment are considered by scientific authorities to be negligible.						
C1.2 proxy Refer	dered by The spec), OR rel ences	y scientific aut cies is conside movals by the	chorities to be negligible. Pered, in its most recent stock assessment, to have a biomass above the limit reference fishery under assessment are considered by scientific authorities to be negligible.						



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 (Scomber jo	ponicus)	
Productivity Attribute	. Value	Score	
Average age at maturity (years)	2 ¹	1	
Average maximum age (years)	7.9 ¹	1	
Fecundity (eggs/spawning)	135,962 ¹	1	
Average maximum size (cm)	64 ¹	1	
Average size at maturity (cm)	22 ¹	1	
Reproductive strategy	Broadcast spawner 1	1	
Mean trophic level	3.4 ¹	3	
	Average Productivity Score	1.29	
Susceptibility Attribut	e Value	Score	
Availability (area overlap)	10-30% ^{2,3}	2	
Encounterability (the position of the st within the water column relative to the		3	
Selectivity of gear type	Individuals < size at maturity are frequently caught. 4	3	
Post-capture mortality	Retained ⁵	3	
	Average Susceptibility Score	2.75	
	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

Availability:

The Pacific chub mackerel has a worldwide distribution, is anti-tropical and absent from the Indian Ocean except for South Africa, KZN to Western Cape ², and the FAO 61 only overlaps with less than 10% of the species distribution ³. (figure 1)

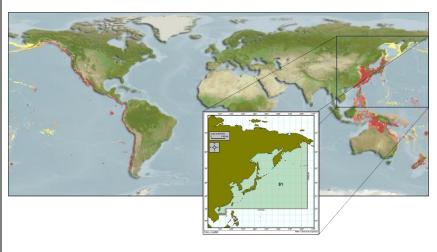


Figure 1: Distribution of Pacific chub mackerel ², and location of FAO 61³.



Encounterability: pacific chub mackerel is a target species⁴.

References

- 1 https://www.fishbase.se/summary/Scomber-japonicus.html
- 2 AquaMaps (2019, October). Computer generated distribution maps for Scomber japonicus (Chub mackerel), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. Retrieved from https://www.aquamaps.org.
- 3 https://www.fao.org/fishery/docs/maps/fig_h4_61_0.gif
- 4 NPFC (2024). North Pacific Fisheries Commission. 8th Meeting of the Technical Working Group on Chub Mackerel Stock Assessment. https://www.npfc.int/sites/default/files/2024-03/TWG%20CMSA08%20Report.pdf

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)		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	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	fis	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	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	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	rel	ridence of majority leased post-capture d survival.	rel	ridence of some eased post-capture d survival.	m	etained species or ajority dead when leased.	



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	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.									
Outco	me:								
Eviden	ice								
reasor	nable me	tential impacts of the fishery on this species are considered during the management process, easures are taken to minimise these impacts. no substantial evidence that the fishery has a significant negative impact on the species.	and						
Refere	ences								
Links									
Marin [*]	Trust Sta	andard clause 1.3.2.2, 4.1.4							
FAO C	CRF	7.5.1	•						
GSSI		D.5.01							