



MarinTrust Standard V2

By-product Fishery Assessment Frigate tuna (Auxis thazard) FAO 57, western Indian Ocean

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Table 1 Application details and summary of the assessment outcome

	Species:	Frigate tuna (Auxis thazard)		
	Geographical area:	FAO 57, western Indian Ocean		
Fishery Under Assessment	Country of origin of the product:	Thailand		
	Stock:	Frigate tuna in western Indian Ocean		
Date	20 July 2023			
Report Code	THA53			
Assessor	Matthew Jew			
Country of origin of the product - PASS	Thailand			
Country of origin of the product - FAIL	NA			

Application details and	d summary of the asses	sment outcome	2				
Company Name(s): South East Asian Packaging and Canning Ltd							
Country: Thailand							
Email address:		Applicant Cod	Applicant Code:				
Certification Body Det	Certification Body Details						
Name of Certification	Name of Certification Body: Global Trust Certification						
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval				
Matthew Jew	Ivan Mateo	0.5 Initial					
Assessment Period Up to July 2023							

Scope Details	
Main Species	Frigate tuna (Auxis thazard)
Stock	Frigate tuna in western Indian Ocean
Fishery Location	FAO 57, western Indian Ocean
Management Authority (Country/ State)	ΙΟΤC
Gear Type(s)	Catches from 2017-2021: Gillnet (37.4%), line (32.8%), purse seine (15.3%), other (14.5%)
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's assessment
Recommendation	APPROVED

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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 Marin trust raw material. Frigate tuna (*Auxis thazard*) does not appear as Endangered or Critically Endangered on IUCN's Red List, and does not appear in CITES appendices; therefore, *Auxis thazard* is eligible for approval for use as Marin trust by-product raw material.

Frigate tuna is managed by the Indian Ocean Tuna Commission (IOTC), however there was not a new assessment conducted for this stock in 2022 and the 2021 assessment used data-limited techniques. The stock status in relation to B_{MSY} and F_{MSY} reference points remains unknown (and limit reference points). Thus, this stock is not subject to a species-specific management regime. Therefore, this stock cannot be assessed under category C and, instead, will be assessed as category D.

Table D1 (PSA) shows that the stock as an average productivity score of **1.29** and an average susceptibility score of 2.5. The PSA risk rating results (Table D3) determined that the species passes.

Therefore, frigate tuna in western Indian Ocean is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.

Fishery Assessment Peer Review Comments

The assessor correctly classified the Thailand Frigate Tuna as category D, because the stock status in relation to biological reference points remain unknown. Thus, this stock is not subject to a species-specific management regime. PSA analysis was correctly conducted

Table D1 (PSA) shows that the stock has an average productivity score of 1.29 and an average susceptibility score of 2.5. The PSA risk rating results (Table D3) determined that the species passes.

Therefore, I agree with the assessor that frigate tuna in western Indian Ocean should be APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.

Notes for On-site Auditor

Determine which flag state(s) the species is being sources from.



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
Frigate tuna	Auxis thazard	Frigate tuna in western Indian Ocean	IOTC	D	LC	No

¹ <u>https://www.iucnredlist.org/</u>

² <u>https://cites.org/eng/app/appendices.php</u>

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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.

Productivity Attribute	Value	Scor
Average age at maturity (years)	0.7	1
Average maximum age (years)	3	1
Fecundity (eggs/spawning)	460,435	1
Average maximum size (cm)	65	1
Average size at maturity (cm)	27.5	1
Reproductive strategy	Broadcast spawner	1
Mean trophic level	4.4	3
	Average Productivity Score	1.29
Susceptibility Attribute	Value	Scor
Availability (area overlap)	<10%	1
Encounterability (the position of the stock/spec	ies High risk	3
within the water column relative to the fishing \mathfrak{g}	gear)	5
Selectivity of gear type	High risk	3
Post-capture mortality	Retained	3
	Average Susceptibility Score	2.5
	PSA Risk Rating (From Table D3)	PAS
	— — — — — — — — — — — — — — — — — — —	
	Compliance rating where relevant) ies and the overall fishing effort has low over	PAS: lap. The ar
 overlap is <10%. 2. Encounterability: The client did not proknowing the specific harvest gear, it is nout of precaution. 3. Selectivity of gear type: The client did not proknowing the specific harvest gear. 	where relevant) ies and the overall fishing effort has low over wide any indication on gear used in the applica not possible to score Encounterability. Score of not provide any indication on gear used in the	lap. The ar ation. With f 3 was aw applicatio
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Fishbase. 2023. Frigate tuna, Auxis thazard (Lacepède, 1800). https://fishbase.mnhn.fr/summary/Auxis-thazard.html

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	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	w overlap with hing gear (low acounterability).	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		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 id survival.	Evidence of some released post-capture and 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		

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