



MarinTrust Standard V2

By-product Fishery Assessment Frigate tuna in FAO Area 71

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:	Frigate tuna (Auxis thazard)
	Geographical area:	FAO Area 71, Pacific, Western Central
Fishery Under Assessment	Country of origin of the product:	Thailand
	Stock:	Western and Central Pacific Ocean
Date		January 2023
Report Code		THA01
Assessor		Sam Peacock
Country of origin of the product - PASS		Thailand
Country of origin of the product - FAIL		None

Application details and	d summary of the asses	sment outcome	2
Company Name(s): So	uth East Asian Packagir	ng and Canning I	Ltd
Country: Thailand			
Email address:		Applicant Cod	e:
Certification Body Det	ails		
Name of Certification	Body:		LRQA
		According	Initial/Surveillance/
Assessor Peer Reviewer		Assessment Days	Re-approval
Sam Peacock	Kate Morris	0.2	Re-approval
Assessment Period		January 2023	– January 2024

Scope Details			
Main Species	Frigate tuna (Auxis thazard)		
Stock	Western and Central Pacific Ocean		
Fishery Location	FAO Area 71, Pacific, Western Central		
Management Authority	Western and Central Pacific Fisheries Commission (WCPFC)		
(Country/ State)			
Gear Type(s)	Purse seine, pole and line, longline		
Outcome of Assessment			
Peer Review Evaluation	PASS		
Recommendation	PASS		

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Table 2. Assessment Determination

Assessment Determination

Frigate tuna has been categorised by the IUCN Red List as a species of Least Concern and does not appear in the CITES appendices. The stock in the Western and Central Pacific Ocean falls within the geographical jurisdiction of the Western and Central Pacific Fisheries Commission (WCPFC) but is not a stock of interest. There is no evidence of any stock assessment or reference points for the stock. For this reason, it was assessed under Category D.

Frigate tuna was awarded a Productivity score of 1.29 and a Susceptibility score of 2.75, leading to an outcome of Pass on Table D3. For this reason, the by-product should be re-approved for use as a raw material in MT-certified marine ingredients.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment here is the Frigate tuna (*Auxis thazrd*) fishery, pursued by fishing vessels in FAO fishing area 71. Frigate tuna is not managed by to species-specific reference points, so for this assessment, frigate tuna is assessed as a category D species. Frigate tuna PASS the requirements detailed in D1. All species scoring tables have been completed by the auditor with sufficient evidence presented to support their final determination.

The peer review supports the auditor's recommendation to PASS the FAO 72, Frigate tuna stock under the Marin Trust IFFO RS v2.0 by-fishery standard to produce fishmeal and fish oil.

Notes for On-site Auditor



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	Western and Central Pacific	No	D	Least Concern ³	No

¹ <u>https://www.iucnredlist.org/</u>

² https://	/cites org/	/eng/	/ann/	appendices.php	
nups.//	cites.org/	Clig/	app	appendices.php	

³ https://www.iucnredlist.org/species/170344/6757270

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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.

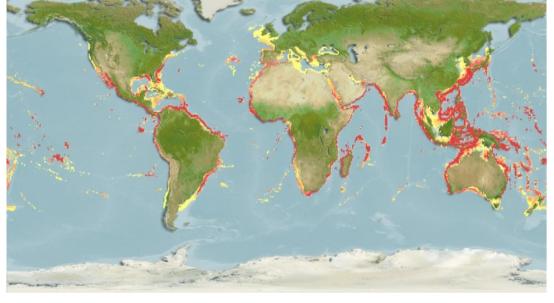
Spe	ecies	Name	n/a	
C1	Catego	or <mark>y C Stock S</mark> ta	atus - Minimum Requirements	
CI	C1.1		vals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	
	C1.2	reference po	s considered, in its most recent stock 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:	
	-		ne species in the fishery under assessment are included in the stock assessment proces horities to be negligible.	s, OR are
C1.2	dered by The spec ı), OR rei	y scientific aut cies is conside		-
C1.2	dered by The spec I), OR rei	y scientific aut cies is conside	horities 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 I), OR rei	y scientific aut cies is conside	horities to be negligible. ered, 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 I), OR rep ences	y scientific aut cies is conside movals by the	horities to be negligible. ered, 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	Frigate tuna	
Productivity Attribute	e Value	Score
Average age at maturity (years)	0.7 years	1
Average maximum age (years)	3 years	1
Fecundity (eggs/spawning)	460,435	1
Average maximum size (cm)	65cm	1
Average size at maturity (cm)	27.5cm	1
Reproductive strategy	Open water / substratum egg scatterers	1
Mean trophic level	4.4	3
	Average Productivity Score	1.29
Susceptibility Attribut	e Value	Score
Availability (area overlap)	10-30% overlap	2
Encounterability (the position of the st within the water column relative to the		3
Selectivity of gear type	Targeted	3
Post-capture mortality	Retained	3
	Average Susceptibility Score	2.75
	PSA Risk Rating (From Table D3)	PASS
	Compliance rating	PASS
Further justification for susceptibility For susceptibility attributes, please pro- uncertainty affecting your decision	vide a brief rationale for scoring of parameters where	there may be



Frigate tuna global distribution, computer generated. From Fishbase, https://www.fishbase.se/summary/94

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References

Fishbase, Frigate tuna. https://www.fishbase.se/summary/94

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		0% overlap	10	-30% overlap	>3	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 counterability).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high icounterability). 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	s On Species Categorise	d 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 reasonab	le measures are taken to minimise these impacts.
	D4.2	There is no substantia	I evidence that the fishery has a significant negative impact on the
		species.	
			Outcome:
	able me	asures are taken to mir	shery on this species are considered during the management process, an
reasor D4.2 T	here is r	asures are taken to mir o substantial evidence	
reasor D4.2 T Refere	here is r		imise these impacts.
reasor D4.2 T Refere Links	here is r ences	o substantial evidence	imise these impacts. that the fishery has a significant negative impact on the species.
reasor D4.2 T Refere Links	Trust Sta		imise these impacts.