



MarinTrust Standard V2

By-product Fishery Assessment Skipjack tuna in FAO Areas 51 (Indian Ocean, Western) and 57 (Indian Ocean, Eastern)

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Table 1 Application details and summary of the assessment outcome

	Species:	Skipjack tuna (Katsuwonus pelamis)				
	Geographical area:	FAO 51, 57 Indian Ocean				
Fishery Under Assessment	Country of origin of the product:	Indonesia				
	Stock:	Skipjack tuna (<i>Katsuwonus pelamis</i>) in FAO 51, 57				
Date	27 July 2023					
Report Code	IND01					
Assessor	Ana Elisa Almeida Ayres					
Country of origin of the product - PASS	Indonesia					
Country of origin of the product - FAIL	NA					

Application details and summary of the assessment outcome							
Company Name(s): PT Pahala Bahari Nusantara							
Country: Indonesia							
Email address:		Applicant Code:					
Certification Body Details							
Name of Certification I	Body:	NSF					
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval				
Ana Elisa Almeida Ayres Matthew Jew		0.5	Initial				
Assessment Period	Up to July 2023						

Scope Details	
Main Species	Skipjack tuna (Katsuwonus pelamis)
Stock	Skipjack tuna (<i>Katsuwonus pelamis</i>) in FAO 51, 57
Fishery Location	FAO 51, 57 – Indian Ocean
Management Authority	Ministry of Marine Affairs and Fisheries (Indonesia), Indian Ocean
(Country/ State)	Tuna Commission (IOTC)
Gear Type(s)	Purse seine, baitboat, gillnet and pole-and-line
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's recommendation
Recommendation	APPROVED

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

For assessment and management purposes, one discrete stock of skipjack tuna is recognised in the Indian Ocean; therefore, this assessment covers one stock (i.e. Skipjack tuna in the Indian Ocean) when fished within Food and Agriculture Organization of the United Nations - FAO fishing areas 51 and 57.

Indonesia is a member of the Indian Ocean Tuna Commission (IOTC). Fishery removals from the stock are considered in the IOTC stock assessment processes such that the stock achieves a PASS against Clause C1.1.

In addition, in most recent stock assessment published in 2022 and over the history of the fishery, biomass has been well above the adopted limit reference, thus the stock PASS against C1.2.

Therefore, skipjack tuna (*Katsuwonus pelamis*) in FAO 51, 57 - Indonesia 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 the skipjack tuna in the Indian Ocean under category C, as the stock is managed and reference points are defined to assess the stock status against.

Fishery removals from the stock are considered in the stock assessment process, and the most recent stock assessment shows that the stock is considered to have a biomass well above the limit reference point: the fishery passes both clauses C1.1 and C1.2.

Therefore, the skipjack tuna in the Indian Ocean tuna is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust V2.3 by-products standards.

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
Skipjack tuna	Katuswonus pelamis	<i>Katuswonus pelamis</i> - Skipjack tuna in FAO 51, 57	IOTC, Ministry of Marine Affairs and Fisheries (Indonesia)	С	LC	No

¹ <u>https://www.iucnredlist.org/</u>

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

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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	ocies	Name	Skipjack tuna (Katsuwonus pelamis)				
	Category C Stock Status - Minimum Requirements						
C1 C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process. OR are considered by scientific authorities to be negligible.							
	C1.2	C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit Yes reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.					
Clause outcome: Pass							
C1.1	Fishery	removals of tl	ne species in the fishery under assessment are included in the stock assessment proce	ss, OR are			
consid	dered by	y scientific aut	horities to be negligible.				
Accor No. 1 Fisher	ding to 7 Year 1 ries Mai	United Nation 1985, highly m nagement Org	Convention of the Law of the Sea - UNCLOS (1982) which has been ratified by Indonesia the igratory species are managed by international or regional agreement, in this case is tun canization (tRFMO). The development of harvest strategies for Skipjack tuna is consi	hrough Act a Regional istent with			
Indon catche	Indonesia's rights and obligations as a member of the Indian Ocean Tuna Commission (IOTC). The majority of skipjack tuna catches in Indian Ocean during 2017-2021 period are attributed to vessels flagged to Indonesia (18.4%) followed by EU (Spain)						

(17.8%) and Maldives (17.2%) in Indian Ocean (IOTC, 2022).

The stock assessment conducted by IOTC takes all fishery removals into account. The most recent assessment was conducted in 2022, using Stock Synthesis with data up to 2019 (IOTC, 2022). The catch limit calculated applying the HCR specified in Resolution 16/02 was 513,572 t for the period 2021-2023. The catch in 2021 (650,331t) exceeded the 2020 level by 17%. IOTC (2022) pointed that this was likely due favourable environmental conditions and highlighted the need of ensuring that catches of skipjack tuna do not exceed the agreed limit and impact associated tuna stocks (bigeye and yellowfin tuna).



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Fig. 4. Yellowfin tuna: SS3 Indian Ocean assessment Kobe plot: (left): current (2020) stock status, relative to SB_{MSY} (x-axis) and F_{MSY} (y-axis) reference points for the final model options. Coloured symbols represent Maximum posterior density (MPD) estimates from individual models: square and Triangles and represents LL CPUE catchability options q1 and q2 respectively; green, blue, black, and orange represents growth and natural mortality option combination Gbase_Mbase, GDortel_Mbase, Gbase_Mlow, and GDortel_Mlow respectively; 1,2, represents spatial structure option io and sp respectively. The purple dot represents the base model. Grey dots represent uncertainty from individual models. The dashed lines represent limit reference points for IO yellowfin tuna (SBlim = 0.4 SB_{MSY} and Flim = 1.4 F_{MSY}); (right) stock trajectory from the base model

The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), C1.2 is met.

Referenc	.85								
IOTC.	2022.	Indian	Ocean	Yellowfin	Tuna	Stock	Status:	Executive	Summary.
https://io	otc.org/sites	s/default/file	s/content/St	ock status/202	2/Yellowfin2	2022E.pdf			

ISSF. 2023. Status of the World Fisheries for Tuna: March 2023. ISSF Technical Report 2023-01. International Seafood
Sustainability Foundation, Pittsburgh, PA, USA. <a href="https://www.iss-foundation.org/research-advocacy-recommendations/our-
scientific-program/scientific-reports/download-info/issf-2023-01-status-of-the-world-fisheries-for-tuna-march-2023/Links1.3.2.2FAO CCRF7.5.3GSSID.3.04, D5.01

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