



MarinTrust Standard V2

By-product Fishery Assessment Yellowfin tuna (*Thunnus albacares*) in FAO 61 & 71

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Yellowfin tuna (<i>Thunnus albacares</i>)
	Geographical area:	FAO 61 & 71 Western Central Pacific
	Country of origin of the product:	Thailand (flag state(s): Taiwan, China, South Korea, Kiribati, Vanuatu, Pakistan)
	Stock:	Yellowfin tuna in the western Pacific Ocean
Date	18 April 2023	
Report Code	THA33	
Assessor	Matthew Jew	
Country of origin of the product - PASS	Thailand (flag state(s): Taiwan, China, South Korea, Kiribati, Vanuatu, Pakistan)	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Asian Alliance International Co. Ltd, Golden Prize Canning Co Ltd, Chotiwat Manufacturing Public Co.,Ltd, Sirisaengarumpee Co. Ltd., SPA International Food Group Co. Ltd, TC Union Agrotech Co. Ltd, Thai Union Ingredients Co. Ltd, TCF Co. Ltd.			
Country: Thailand			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Matthew Jew	Léa Lebechnech	0.5	Surveillance 2
Assessment Period	Up to April 2023		

Scope Details	
Main Species	Yellowfin tuna (<i>Thunnus albacares</i>)
Stock	Yellowfin tuna in the western Pacific Ocean
Fishery Location	FAO 61 & 71 Western Central Pacific
Management Authority (Country/ State)	Western and Central Pacific Fisheries Commission (WCPFC)
Gear Type(s)	Longline, pole & line, and purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's determination
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>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. Yellowfin tuna (<i>Thunnus albacares</i>) is not assessed on IUCN’s Red List, and does not appear in CITES appendices; therefore, <i>Thunnus albacares</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>Yellowfin tuna in the western central Pacific Ocean (WCPO) is considered to comprise a single stock for assessment and management purposes; therefore, this assessment covers that stock when fished in FAO Area 61 & 71. The last assessment of WCPO Yellowfin tuna has been made in 2020 and the next one is planned for 2023.</p> <p>Fishery removals of the stock are considered in the WCPFC stock assessment process and the latest assessment of stock status considers the stock being above the limit reference points, so the stock PASSES Clauses C1.1 and C1.2.</p> <p>Therefore, Yellowfin tuna in the western Pacific Ocean is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The internal peer reviewer agrees with the assessor’s determination, who correctly classified and approved the stock of yellowfin tuna in the western central Pacific Ocean (WCPO). Fishery removals are included in the stock assessment and the stock is considered, in its most recent stock assessment, to have biomass above the limit reference points, so it PASSES Clauses C1.1 and C1.2.</p> <p>Therefore yellowfin tuna in the western central Pacific Ocean (WCPO) is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standards.</p>
Notes for On-site Auditor
N/A

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 a 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
Yellowfin Tuna	<i>Thunnus albacares</i>	Yellowfin tuna in the western Pacific Ocean	WCPFC	C	LC	No

¹ <https://www.iucnredlist.org/>

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

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		Yellowfin Tuna (Thunnus albacares)	
C1	Category C Stock Status - Minimum Requirements		
	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.	Yes
	C1.2	The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.	Yes

Clause outcome: PASS

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.

Western Central Pacific Yellowfin Tuna Fishery removals of the species in the fishery under assessment are included in the stock assessment process via Western and Central Pacific Fisheries Commission (WCPFC) processes. The stock was last assessed in 2020 but only data up to 2018 were used. Catches can be seen in the figure below.

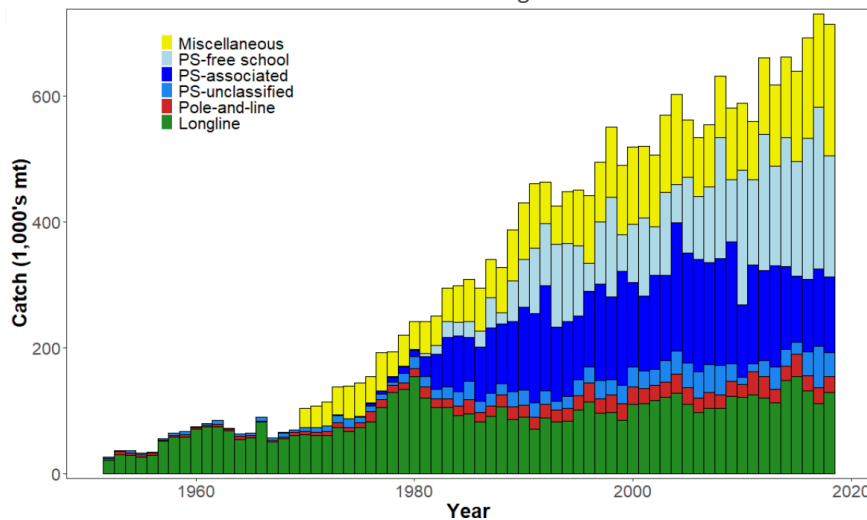


Figure 1. Time series of total annual catch (1000's mt) by fishing gear over the full assessment region and time period. The different colours denote longline (l) (green), pole-and-line (p) (red), purse seine (s) (blue), purse seine-associated (s) (dark blue), purse seine-unassociated (s) (light blue), miscellaneous (yellow).

Source: WCPFC 2020

Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process and therefore the stock PASSES clause C1.1.

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

The most recent stock assessment for WCPO yellowfin was carried out in 2020 (Vincent et al. 2020). Estimates of stock status, reference points, and trends in abundance were more optimistic compared to the previous assessment. The terminal depletion

estimated for all models was above the 20%SB_{F=0} (which is the LRP adopted for this stock by the WCPFC), with the range of the grid of SB_{recent}/SB_{F=0} between 0.51 and 0.64.

Stock status was evaluated by estimating SB_{recent}/SB_{F=0} and SB_{latest}/SB_{F=0}, where SB_{latest} and SB_{recent} are the estimated spawning potential in 2018 and the mean over 2015-2018, respectively.

Kobe Plots presented below shows that the status of WCPO Yellowfin Tuna is not being overfished and overfishing is not occurring.

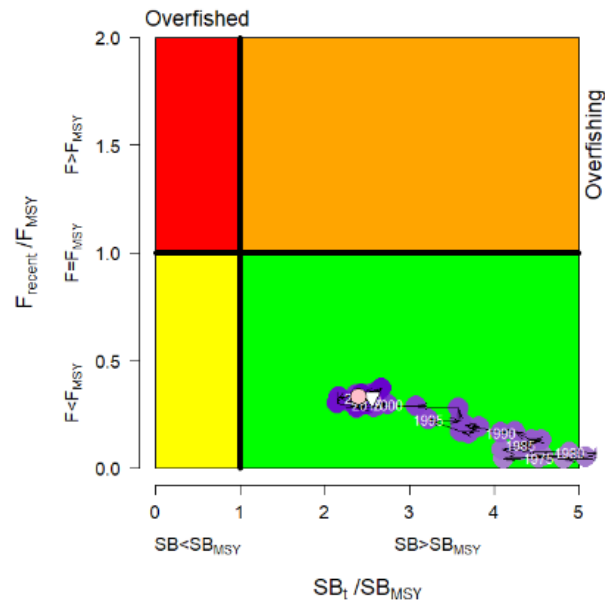


Figure 2. Dynamic Kobe plot for the diagnostic mode. The pink circle is SB_{latest}/SB_{F=0} and the white triangle is SB_{recent}/SB_{F=0}. Source: WCPFC 2020

The stock at the start of the assessment period was estimated to be close to an SB/SB_{F=0} of one and an F/F_{MSY} approaching zero, but it progressively tracked toward the overfishing and overfished definitions over the remaining period. The diagnostic case model never reaches a point close to 20%SB_{F=0} or an F/F_{MSY} of 1, and the status of the stock improves slightly in recent years.

Therefore, the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point and it PASSES clause C1.2.

References

Peer review of the 2020 Yellowfin tuna assessment, SPC Noumea, September 2022. WCPFC-SC17-2021-SA-WP-06: <https://meetings.wcpfc.int/file/9331/download>

Vincent M, N, Ducharme-Barth, P. Hamer, J. Hampton, P. Williams, G. Pilling 2020 Stock assessment of Yellowfin Tuna in the western and central Pacific Ocean WCPFC-SC16-2020/SA-WP-04 (Rev.3): <https://meetings.wcpfc.int/node/11694>

Links

MarinTrust Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01