



MarinTrust Standard V2

By-product Fishery Assessment, USA02- *Yellowfin tuna (Thunnus albacares)*

FAO 21, 27, 31, 34, 41, 47

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 areas 21, 27, 31, 34, 41, 47
	Country of origin of the product:	Ghana (flag state(s): Ghana, Belize, Spain, France, Italy)
	Stock:	Atlantic Ocean yellowfin tuna
Date	23/08/2024	
Report Code	USA02	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	Ghana (flag state(s): Ghana, Belize, Spain, France, Italy)	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Cosmo Seafoods, Pioneer Food Cannery Limited			
Country: Ghana			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LQRA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Virginia Polonio	Sam Peacock	0.5	Re-approval
Assessment Period	August 2024 - August 2025		

Scope Details	
Main Species	Yellowfin tuna (<i>Thunnus albacares</i>)
Stock	Atlantic Ocean yellowfin tuna
Fishery Location	FAO areas 21,27, 31, 34, 41, 47 (Atlantic Ocean)
Management Authority (Country/ State)	ICCAT
Gear Type(s)	Longline, baitboat, and purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor
Recommendation	APPROVE

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>) does not appear as Endangered or Critically Endangered 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>Tunas and other highly migratory species are managed by ICCAT in the Atlantic Ocean. There is a single stock of yellowfin tuna and it is assessed relative to a target reference point (BMSY). This stock is also MSC certified for several fisheries.</p> <p>As the Atlantic Ocean stock of yellowfin tuna is subject to a management regime, it is assessed under category C. Fishery removals are included in the stock assessment and it PASSES Clause C1.1. T</p> <p>The ratio of spawning biomass SSB2018/SSBMSY is estimated at 1.17 (range 0.75-1.62). This indicates that the stock in 2018 was not overfished. The SCRS cautioned that the differences between the 2016 and 2019 assessment results were not due to stock recovery as the 2019 models indicate that the stock biomass declined between 2014 and 2018. The perceived improvement is more likely due to changes in key data inputs and the assessment models applied in its most recent stock assessment, to have biomass above the limit reference point, therefore, it PASSES Clause C1.2.</p> <p>Therefore, Atlantic ocean yellowfin tuna (<i>Thunnus albacares</i>) is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The peer reviewer agrees that this stock is eligible for MarinTrust approval, and that it should be assessed under Category C. The assessor has demonstrated, with references, that the stock is subject to a regular stock assessment which incorporates fishery removals, and that stock biomass is currently above the limit reference point level. For these reasons, the peer reviewer agrees that this byproduct should be re-approved for use as a raw material.</p>
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
Yellowfin tuna	<i>Thunnus albacares</i>	Atlantic Ocean yellowfin tuna	ICCAT	C	Least concern ³	No

¹ [https://www.iucnredlist.org/Thunnus albacares \(Yellowfin Tuna\) \(iucnredlist.org\)](https://www.iucnredlist.org/Thunnus%20albacares%20(Yellowfin%20Tuna)(iucnredlist.org))

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

³ Collette, B.B., Boustany, A., Fox, W., Graves, J., Juan Jorda, M. & Restrepo, V. 2021. *Thunnus albacares*. *The IUCN Red List of Threatened Species* 2021: e.T21857A46624561. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T21857A46624561.en>. Accessed on 05 September 2024.

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.

In 2018, the ratio of F_{2018}/F_{MSY} was estimated at 0.96 (range 0.56-1.50), indicating that overfishing was not occurring. Additionally, the ratio of spawning biomass SSB_{2018}/SSB_{MSY} was estimated at 1.17 (range 0.75-1.62), suggesting that the stock in 2018 was not overfished. However, the SCRS cautioned that the differences between the 2016 and 2019 assessment results were not due to stock recovery, as the 2019 models indicated a decline in stock biomass between 2014 and 2018. The perceived improvement was more likely due to changes in key data inputs and the assessment models applied. The estimate of MSY was 121,300 tonnes (range 90,400-267,400), which was lower than in previous decades due to a shift in overall fishery selectivity towards smaller yellowfin, mainly through fishing on FADs. Despite this, the current catch of 148,200 tonnes was above both the MSY and the adopted catch limit of 110,000 tonnes.

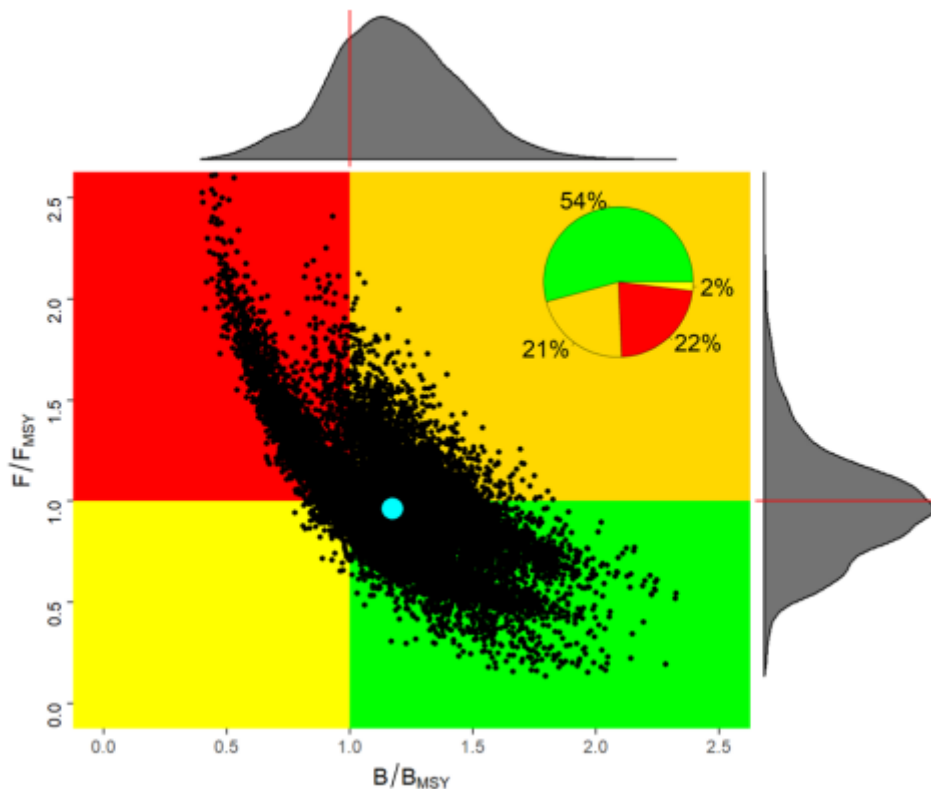


Figure 2. Kobe plot estimated from the combination of Stock Synthesis, JABBA and MPB model runs chosen to develop the management advice. Note that source and the trajectory of individual runs are shown in the detailed report of ICCAT 2022-2023

Therefore clause C1.2 is met.

References

ICCAT2019-2024 Yellowfin Tuna. *Thunnus albacares* Summary of Stock Synthesis (V3.30.13.09), JABBA (v1.5 Beta) and mpb (FLR). [2646-19 ENG.pdf \(iccat.int\)](#)
[ICCAT-CICTA-CICAA](#)
 ISSF Technical Report – 2024-02 [Status of the Stocks - International Seafood Sustainability Foundation \(iss-foundation.org\)](#)

Links

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

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

D1	Species Name		
	Productivity Attribute	Value	Score
	Average age at maturity (years)		
	Average maximum age (years)		
	Fecundity (eggs/spawning)		
	Average maximum size (cm)		
	Average size at maturity (cm)		
	Reproductive strategy		
	Mean trophic level		
	Average Productivity Score		
	Susceptibility Attribute	Value	Score
	Availability (area overlap)		
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)		
	Selectivity of gear type		
	Post-capture mortality		
	Average Susceptibility Score		
	PSA Risk Rating (From Table D3)		
	Compliance rating		
	Further justification for susceptibility scoring (where relevant) <i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i>		
	References		
<i>Standard clauses 1.3.2.2</i> taken.			

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	10-30% 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	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 Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	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	Evidence of majority released post-capture and survival.	Evidence of some released post-capture and survival.	Retained species or majority dead when released.

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	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.	
			Outcome:
Evidence 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.			
References			
Links			
MarinTrust Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	