



MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

Unit C, Printworks

22 Amelia Street

London

SE17 3BZ

E: standards@marin-trust.com

T: +44 2039 780 819

Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Albacore tuna (<i>Thunnus alalunga</i>)
	Geographical area:	1. FAO 51 Indian Ocean, Western 2. FAO 57 Indian Ocean, Eastern
	Country of origin of the product:	Thailand
	Stock:	Indian Ocean albacore tuna
Date	12 July 2021	
Report Code	BP129	
Assessor	Sam Dignan	
Country of origin of the product - PASS	Thailand	
Country of origin of the product - FAIL	Not applicable	

Application details and summary of the assessment outcome			
Name:			
1. Golden Prize Canning Co Ltd			
2. Sirisaengarumpee Co. Ltd.			
3. South East Asian Packaging and Canning Ltd			
4. T.C. Union Agrotech Co, Ltd			
5. Thai Union Ingredients Co Ltd			
Address:			
Country: Thailand		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification Limited	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Re-approval
Sam Dignan	Géraldine Criquet	0.5	Re-approval
Assessment Period	To July 2021		

Scope Details	
Main Species	Albacore tuna (<i>Thunnus alalunga</i>)
Stock	Indian Ocean albacore tuna
Fishery Location	1. FAO 51 Indian Ocean, Western 2. FAO 57 Indian Ocean, Eastern
Management Authority (Country/ State)	Indian Ocean Tuna Commission (IOTC)
Gear Type(s)	Longline, pole and line, purse seine, troll
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's recommendation of approval.
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>If a 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 MarinTrust RS raw material.</p> <p>Albacore Tuna (<i>Thunnus alalunga</i>) is listed on the IUCN Red List as globally Near Threatened (NT) and Least Concern (LC) in Europe and is not listed in CITES; therefore, byproducts derived for this stock are eligible for approval for use as MarinTrust RS by-product raw material.</p> <p>On the basis of currently available information, only one albacore stock is assumed to exist in the Indian Ocean; therefore, it is this stock that is relevant to this assessment.</p> <p>Fishery removals of the stock are considered in the stock assessment processes so the stock PASSES Clause C1.1.</p> <p>As of the latest assessment, the biomass of the stock is considered to be above the corresponding limit reference point such that the stock PASSES Clause C1.2.</p> <p>As the stock passes both Clause C1.1 and C1.2, the by-product covered by this report is recommended for APPROVAL for the production of fishmeal and fish oil under the current MarinTrust RS v 2.0 by-product standard.</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly classified the Indian Ocean albacore tuna stock as category C, reference points are defined to assess status of the stock relative to.</p> <p>Fishery removals are included in the stock assessment process so the stock PASSES Clause C1.1. The Indian Ocean albacore tuna stock is considered, in its most recent stock assessment, to have a biomass below the limit reference point. Therefore, it does PASS Clause C1.2.</p> <p>Therefore, the Indian Ocean albacore albacore tuna stock is APPROVED.</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 Redlist 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
Albacore tuna	<i>Thunnus alalonga</i>	Indian Ocean albacore tuna	IOTC	C	Globally: Near Threatened (NT) Europe: Least Concern (LC)	No

¹ <https://www.iucnredlist.org/>

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

CATEGORY C SPECIES

In a whole fish assessment, Category C species are those which make up less than 5% of landings, but which are subject to a species-specific management regime. In most cases this will be because they are a commercial target in a fishery other than the one under assessment.

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 may be assessed as a Category D species instead, EXCEPT if there is evidence that it is currently below the limit reference point.

Species Name		
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. PASS
	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. PASS
		Clause outcome: PASS
<p>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.</p> <p>Fishery removals of Indian Ocean albacore are included in the stock assessment process such that the fishery PASSES clause C1.1</p> <p>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.</p> <p>A new stock assessment was carried out for Indian Ocean albacore in 2019 to update the previous 2016 assessment. The management defined limit reference is $0.4 \cdot SB_{MSY}$ where $SB_{MSY} = 23,200$ mt. Current spawning biomass is considered to be above the target reference point of SB_{MSY}, and therefore above the limit reference point of $0.4 \cdot SB_{MSY}$. Overall, the current estimate of SB is $SB_{2017}/SB_{MSY} = 1.281$ (95% CI = (0.574 – 2.071)); therefore, the stock is considered, in its most recent stock assessment, to have a biomass above its limit reference point (or proxy) such that the fishery PASSES clause C1.2.</p>		
<p>References</p> <p>IOTC–2020–SC23–ES01 DRAFT RESOURCE STOCK STATUS SUMMARY ALBACORE TUNA (ALB: <i>Thunnus alalunga</i>): https://www.iotc.org/sites/default/files/documents/2020/11/IOTC-2020-SC23-ES01_Albacore.pdf</p>		
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 make up less than 5% of landings and 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.

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
	Overlap of adult species range with fishery		
	Distribution		
	Habitat		
	Depth range		
	Selectivity		
	Post-capture mortality		
	Average Susceptibility Score		
	PSA Risk Rating (From Table D3)		
	Compliance rating		
References			
<i>Standard clauses 1.3.2.2</i>			

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5–3.25	<2.5

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
		Score 3	Score 2	Score 1
Availability	1) Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished
	2) Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution
Encounterability	1) Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)
	2) Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)
Selectivity		Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh size or >5 m length
Post capture mortality		Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours

Note: Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

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.		
			Clause 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	