

MarinTrust Standard V2

By-product Fishery Assessment Report Template (Skipjack tuna, Katsuwonus pelamis in FAO Area 34)

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

	Species:	Skipjack tuna (Katsuwonus pelamis)	
	Geographical area:	FAO Areas 34 Atlantic Eastern Central	
Fishery Under Assessment	Country of origin of the product:	Thailand	
	Stock:	East Atlantic skipjack tuna stock	
Date	10 February 2022		
Report Code	BP029		
Assessor	Geraldine Criquet		
Country of origin of the product - PASS	Inalland		
Country of origin of the product - FAIL			

Application details and summary of the assessment outcome						
Company Name(s): Ch	notiwat Manufacturing	Public Co.				
Country: Thailand						
Email address:		Applicant Code	e:			
Certification Body Deta	Certification Body Details					
Name of Certification Body: Global Trust Certification						
	Assessment		Initial/Surveillance/			
Assessor	Peer Reviewer	Days	Re-approval			
Geraldine Criquet Conor Donnelly 0.5 Initial						
Assessment Period To February 2022						

Scope Details	
Main Species	Skipjack tuna (Katsuwonus pelamis)
Stock	East Atlantic skipjack tuna stock
Fishery Location	FAO Areas 34 Atlantic Eastern Central
Management Authority (Country/ State)	International Commission for the Conservation of Atlantic Tunas (ICCAT)/ Thailand
Gear Type(s)	Purse seine, longline and pole & line
Outcome of Assessment	
Peer Review Evaluation	Agree with recommendation
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination

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. Skipjack tuna (*Katsuwonus pelamis*) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, skipjack is eligible for approval for use as Marin Trust by-product raw material.

There are two stocks of skipjack tuna in the Atlantic Ocean. This assessment covers the East Atlantic skipjack tuna stock. This stock is managed at the international level by the International Commission for the Conservation of Atlantic Tunas (ICCAT). ICCAT conducts stock assessments; reference points are defined for the East Atlantic skipjack tuna stock. The stock is classified as Category C.

Fishery removals of the stock are considered in the stock assessment processes so the stock **PASSES** Clause C1.1.

In the most recent stock assessment, the stock is considered to have a biomass above the limit reference point, the stocks **PASSES** Clause C1.2.

Therefore, East Atlantic skipjack tuna stock is **APPROVED** for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.

Fishery Assessment Peer Review Comments

Given the existence of a species-specific management regime, the stock is correctly defined as a Category C species. Evidence is presented that catches are considered in the stock assessment process and the stock biomass is above its limit reference point. Therefore, the stock should be approved for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.

Notes for On-site Auditor	
NA	



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	Katsuwonus pelamis	East Atlantic skipjack tuna	International Commission for the Conservation of Atlantic Tunas (ICCAT) / Thailand	С	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.

Spe	Species Name Skipjack tuna (Katsuwonus pelamis)					
C 1	Category C Stock Status - Minimum Requirements					
				Yes		
	process, OR are considered by scientific authorities to be negligible.					
	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.					
			Clause outcome:	DACC		

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.

The stock assessment is conducted by ICCAT using catch data. Skipjack catches in the Eastern Atlantic by gear for the 1950-2018 period are shown in Figure 1.

Therefore, the stock **PASSES** Clause C1.1.

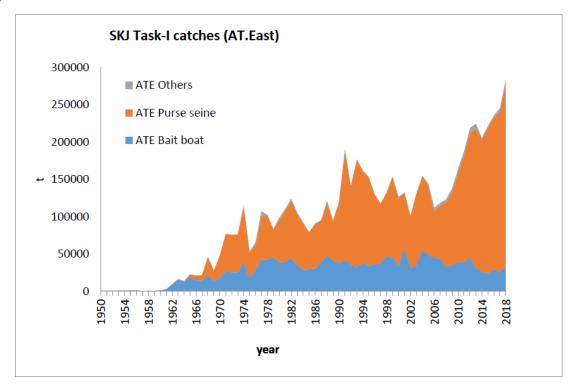


Figure 1. Skipjack catches in the eastern Atlantic, by gear (1950-2018), after correction of Ghana's data by species (1996-2014).

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.



A stock assessment was conducted by ICCAT in 2014 using catch data available to 2013. The most recent stock assessment report is an update of that of 2018 covering the most recent information on the stock status. Three models were used: two surplus biomass production models and a model based only on catch and mortality estimation based on the average sizes of fish caught. Regardless of the model used, it was not possible to provide a reliable estimate of MSY. However, there is no evidence of a fall in yield or in the average weight of fish caught. ICCAT concludes that there is no evidence that the stock is overfished and that overfishing is occurring (Table 1). B₂₀₁₃ is likely to be above B_{MSY}.

Therefore, the assessor determines that, the stock is considered to have a biomass above the limit reference point, it **PASSES** Clause C1.2.

T--4 A41--4!-

Table 1. East Atlantic skipjack tuna stock status summary.

	East Atlantic
Maximum Sustainable Yield (MSY)	
Current yield (2018¹)	282,427 t
Current Replacement Yield	Unknown
Relative Biomass (B ₂₀₁₃ /B _{MSY})	Likely >1
Mortality due to fishing (F_{2013}/F_{MSY})	Likely <1
Stock Status	
Overfished:	Not likely
Overfishing:	Not likely
Management measures in force	Rec. 16-01

¹Reports of catches for 2018 should be considered provisional.

References

ICCAT Stock Assessment and Executive Summary – Skipjack tuna https://www.iccat.int/en/assess.html

Collette, B.B. & Abad-Uribarren, A. 2015. *Katsuwonus pelamis. The IUCN Red List of Threatened Species* 2015: e.T170310A76614837. Accessed on 10 February 2022.

https://www.iucnredlist.org/species/170310/76614837

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 taken.

D1	Species Name			
	Productivity Attribute	e 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 Attribut	te Value	Score	
	Overlap of adult species range with fisher	ry		
	Distribution			
	Habitat			
	Depth range			
	Selectivity			
	Post-capture mortality			
		Average Susceptibility Score		
		PSA Risk Rating (From Table D3)		
		Compliance rating		
Refere	nces			
Standa	rd clauses 1.3.2.2			



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	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 or<br="" size="">>5 m length</mesh>	
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	1 - 1.75	PASS	PASS	PASS
Score	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			
			of the fishery on this species are considered during the management e measures are taken to minimise these impacts.	
	D4.2	There is no substantia species.	evidence that the fishery has a significant negative impact on the	
	•		Outcome:	
	-	ential impacts of the fise easures are taken to mini	hery on this species are considered during the management process, a mise these impacts.	nd
reasor	nable m	easures are taken to min		ind
reasor	nable mo	easures are taken to min	mise these impacts.	ind
reasor D4.2 T	nable mo	easures are taken to min	mise these impacts.	ind
D4.2 T Refere	nable mo	easures are taken to min	mise these impacts.	ind
D4.2 T Refere	There is a	easures are taken to mini no substantial evidence t	mise these impacts. hat the fishery has a significant negative impact on the species.	nnd