



MarinTrust Standard V2

By-product Fishery Assessment ESP20 – Skipjack tuna in FAO Area 51 (Indian Ocean)

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Skipjack tuna (Katsuwonus pelamis)			
	Geographical area:	FAO Area 51			
Fishery Under	Country of origin of	Spain, Portugal, Seychelles, Maldives,			
Assessment	the product:	Mauritius			
	Stock:	Indian Ocean skipjack			
Date	June 2023				
Report Code	ESP20				
Assessor	Sam Peacock				
Country of origin of the	Spain, Portugal, Seychelles, Maldives, Mauritius				
product - PASS	Spairi, Portugar, Seychelles, Maidives, Mauritius				
Country of origin of the	n/a				
product - FAIL	n/a				

Application details and summary of the assessment outcome							
Company Name(s): Sarval Bio-industries Noroeste: S.A.U: Arteixo: Conresa, Conserveros Reunidos							
SL (CONRESA)							
Country: Spain							
Email address:		Applicant Code	2:				
Certification Body Deta	ails						
Name of Certification E	Body:		LRQA				
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval				
Sam Peacock	Kate Morris	0.2	Re-approval				
Assessment Period	June 2023 – June 2024						

Scope Details	
Main Species	Skipjack tuna (Katsuwonus pelamis)
Stock	Indian Ocean skipjack
Fishery Location	FAO Area 51
Management Authority (Country/ State)	Indian Ocean Tuna Commission (IOTC)
Gear Type(s)	Longline, pole and line, purse seine
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Pass



Table 2. Assessment Determination

Assessment Determination

Skipjack tuna has been categorised by the IUCN as Least Concern, and does not appear in the CITES appendices. Skipjack in the Indian Ocean is managed by the IOTC relative to target and limit reference points, and was therefore assessed under Category C.

The most recent stock assessment was conducted in 2020, and an updated assessment is due to be carried out in 2023. The 2020 assessment incorporated international catch data and CPUE indices, and concluded that there was a very high probability that skipjack biomass was above both the limit and target reference points. This byproduct meets the MT requirements and should be approved for use as a raw material.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment here is the Skipjack tuna (*Katsuwonus pelamis*) fishery, pursued by vessels in FAO fishing area 51. Skipjack tuna is managed by international or state regulations. Therefore, for this Marin Trust assessment, the skipjack tuna stock is scored against Category C.

The species scoring table has been completed by the auditor with sufficient evidence presented to support their final determination.

The peer review supports the auditor's recommendation to pass the FAO 51, Skipjack tuna stock pursued by the fishery under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

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	Katsuwonus pelamis	Indian Ocean skipjack tuna	Yes	С	Least Concern ³	No

¹ https://www.iucnredlist.org/

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

³ https://www.iucnredlist.org/species/170310/46644566



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 Skipjack tuna					
C1	Categ	ory C Stock Sta	atus - Minimum Requirements		
CI	C1.1		ovals of the species in the fishery under assessment are included in the stock assessment 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.				
			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.

Management advice is published by the IOTC Working Party on Tropical Tunas annually. The most recent stock assessment was conducted in 2020 using data up to 2019, and management advice since then has been based on the 2020 assessment (IOTC 2022). A full updated stock assessment is due to be carried out in 2023, but was not available at the time of writing. The assessment incorporated international catch data and CPUE indices, and the results did not differ substantially from the previous assessment (conducted in 2017). The stock assessment report does discuss some potential sources of uncertainty; however the assessor concludes that overall the outcomes are sufficiently reliable for C1.1 to be met.

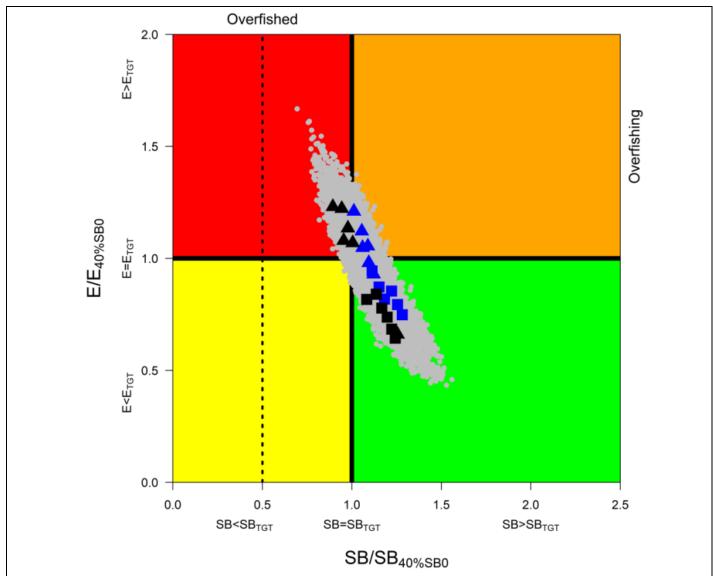
C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

The 2020 stock assessment concluded that the stock biomass is above SB_{MSY} "with very high probability", and that "over the history of the fishery, biomass has been well above the adopted limit reference point (0.2*SB₀)" (IOTC 2022). There is clear evidence that the most recent stock assessment concluded that stock biomass was above the limit reference point, and C1.2 is met.

Indian Ocean skipjack tuna, probability of stock status with respect to each of four quadrants of the Kobe plot. Note that the limit reference point SB_{lim} is 20% of the unfished biomass; the stock is considered "overfished" when biomass is less than double this level (i.e. $SB/SB_{40\%80} < 1$). See the Kobe chart below for an additional illustration (IOTC 2022).

Colour key	Stock overfished (SB ₂₀₁₉ / SB _{40%SB0} <1)	Stock not overfished (SB ₂₀₁₉ / SB _{40%SB0} ≥ 1)
Stock subject to overfishing (E ₂₀₁₉ / E _{40%SB0} ≥ 1)	19.5%	19.5%
Stock not subject to overfishing (E $_{2019}$ / E $_{40\%SB0}$ \leq 1)	0.6%	60.4%
Not assessed / Uncertain		





Indian Ocean skipjack tuna, aggregated assessment Kobe plot for the 2020 stock assessment. Symbols and grey dots represent the range of outcomes of the various models. The vertical dashed line indicates the limit reference point – note that no outcomes indicate the stock biomass is below this level (IOTC 2020)

References

IOTC (2020). Preliminary Indian Ocean skipjack tuna stock assessment 1950-2019 (Stock Synthesis). https://www.iotc.org/sites/default/files/documents/2020/10/IOTC-2020-WPTT22AS-10 Rev1.pdf

IOTC (2022). Skipjack tuna, executive summary.

https://iotc.org/sites/default/files/content/Stock status/2022/Skipjack2022E.pdf

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 Attribut	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 Attribu	te Value	Score
	Availability (area overlap)		
	Encounterability (the position of the s		
	within the water column relative to the	e fishing gear)	
	Selectivity of gear type		
	Post-capture mortality		
		Average Susceptibility Score	
		PSA Risk Rating (From Table D3)	
		Compliance rating	
	Further justification for susceptibility For susceptibility attributes, please pr uncertainty affecting your decision	scoring (where relevant) ovide a brief rationale for scoring of parameters when	re there may be
	ancestant, ajjecung year accion		
Refere	nces		
Standa	ard clauses 1.3.2.2		



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		ow susceptibility ow risk, score = 1)		edium susceptibility nedium risk, score = 2)		High susceptibility (high risk, score = 3)	
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap		10	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	fis	w overlap with hing gear (low counterability).		Medium overlap with fishing gear.		High overlap with fishing gear (high encounterability). Default score for target species	
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught	
Potential of the gear to retain species	b	Individuals < size at maturity can escape or avoid gear.	Ь	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		ridence of majority eased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.	



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		n/a	
	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 substantia species.	al evidence that the fishery has a significant negative impact on the	
	•	Outcome:		
Eviden	nce			
D4.2 T	here is r	no substantial evidence	that the fishery has a significant negative impact on the species.	
Refere	ences			
Links				
Marin	MarinTrust Standard clause 1.3.2.2, 4.1.4			
FAO C	FAO CCRF 7.5.1			

D.5.01

GSSI