



MarinTrust Standard V2

By-product Fishery Assessment SLV10 Skipjack Tuna in FAO Areas 51 (Indian Ocean, Western) and 57 (Indian Ocean, Eastern)

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Table 1 Application details and summary of the assessment outcome

	Species:	Skipjack tuna (Katsuwonus pelamis)		
		FAO Major Fishing Areas:		
Fishery Under	Geographical area:	51 Indian Ocean, Western		
Assessment		57 Indian Ocean, Eastern		
Assessment	Country of origin of	El Salvador		
	the product:	ELSAIVAGOR		
	Stock:	Indian Ocean skipjack		
Date	March 2023			
Report Code	SLV10			
Assessor	Sam Dignan			
Country of origin of the	El Salvador			
product - PASS	EI Salvauui			
Country of origin of the	None			
product - FAIL	NOTE			

Application details and	l summary of the assess	sment outcome		
Company Name(s): Ca	ilvo Conservas El Salvad	or SA de CV		
Country: El Salvador				
Email address:		Applicant Code	e:	
Certification Body Deta	ails			
Name of Certification Body:		LRQA		
Assessor Peer Reviewer		Assessment	Initial/Surveillance/	
		Days	Re-approval	
Sam Dignan	Sam Peacock	0.2	Surveillance 1	
Assessment Period	To April 2023			

Scope Details					
Main Species	Skipjack tuna (Katsuwonus pelamis)				
Stock	Indian Ocean skipjack				
	FAO Major Fishing Areas:				
Fishery Location	51 Indian Ocean, Western				
	57 Indian Ocean, Eastern				
Management Authority (Country/ State)	Indian Ocean Tuna Commission (IOTC)				
Gear Type(s)	Longline, pole and line, purse seine				
Outcome of Assessment					
Peer Review Evaluation	Agree with recommendation				
Recommendation	PASS				



Table 2. Assessment Determination

Assessment Determination

Skipjack tuna has been categorised by the IUCN as a species of Least Concern and does not appear in the CITES appendices.

The areas covered by this assessment (FAO Major Fishing Areas 51 (Indian Ocean, Western) and 57 (Indian Ocean, Eastern) include a single skipjack tuna stock (Indian Ocean skipjack).

Indian Ocean tuna stocks are managed by the relevant RFMO (Regional Fisheries Management Organisation) the Indian Ocean Tuna Commission (IOTC) where stocks are assessed by the IOTC Scientific Committee (SC), which makes recommendations to the IOTC.

The stock is currently managed to interim limit (0.2*SSB₀ and F_{0.2SSB0}) and target (0.4*SSB₀ and F_{0.4SSB0}) reference points and as such are assessed under Category C.

The most recent stock assessment of Indian Ocean skipjack was conducted in 2020 with data up to 2019 where results indicated:

- 1. F_{current}/F_{MSY} is estimated to be 0.48 (80% CI: 0.35 0.81), meaning overfishing was not occurring.
- 2. $SSB_{current}/SSB_{MSY} = 1.99$ (80% CI: 1.47 2.63) meaning the stock was not in an overfished state.

As the stock is estimated above the defined interim biomass limit reference point, the by-product meets the MT requirements and should be approved for use as a raw material.

Fishery Assessment Peer Review Comments

Skipjack tuna has been correctly identified as eligible for MT byproduct approval, and has been assessed under Category C. The most recent stock assessment was carried out in 2020 and concluded that stock biomass was substantially larger than the limit reference point level at that time. The peer reviewer agrees that this byproduct should be approved for use as a raw material in MT-certified marine ingredients.

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	Yes	С	Least Concern ³	No

¹ <u>https://www.iucnredlist.org/</u> ² https://citos.org/ong/app/app/

https://cites.org/eng/app/appendice	is nhn

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

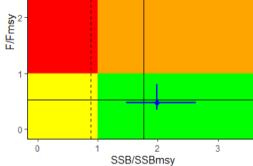
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CATEGORY C SPECIES

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	cies	Name	Skipjack tuna (Indian Ocean stock)	
C1	Catego	ory C Stock St	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	
			oint (or proxy), OR removals by the fishery under assessment are considered by scientific to be negligible.	PASS
		•	Clause outcome:	PASS
includ C1.2 T OR rei The m 1. F 2. S 3. T ('	ed in the he speci movals I ost rece current/FM SBcurrent/ he med ~650,000	e stock assess ies is consider by the fishery ent stock asses isy is estimate (SSB _{MSY} = 1.99 ian estimate 0 mt) were ab	and amounted to 650,331 mt in 2021, a 20% increase from 2022. Catch data are availab sment process such that C1.1 is met. red, in its most recent stock assessment, to have a biomass above the limit reference point (y under assessment are considered by scientific authorities to be negligible. ssment of Indian Ocean skipjack was conducted in 2020 with data up to 2019 where results d to be 0.48 (80% CI: 0.35 – 0.81), meaning overfishing was not occurring. (80% CI: 1.47 – 2.63) meaning the stock was not in an overfished state. of MSY is estimated to be 601,000 mt (80% CI: 500,100 mt – 767,000 mt), meaning 202 pove this level. ered, in its most recent stock assessment, to have a biomass above the defined interim limit	(or proxy) indicated 21 catche
		it C1.2 is met.		reierenc
F/Fmsy - ۲			Figure 1. Latest estimate of SSB/SSB _{MSY} and F/F _{MSY} for Indian Ocea (blue dot, with range (80% CIs) indicated by bars). Solid black lines interim target reference points and black dashed lines represent int reference points.	represen



References

See skipjack tuna status summary at: <u>https://iotc.org/science/status-summary-species-tuna-and-tuna-species-under-iotc-mandate-well-other-species-impacted-iotc.</u>

ISSF (2023). Status of the world fisheries for tuna. Mar. 2023. ISSF Technical Report 2023-01. International Seafood Sustainability Foundation, Pittsburgh, PA, USA: <u>https://www.iss-foundation.org/downloads/33297/?tmstv=1683106711</u>.

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

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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.

Value erage Productivity Score Value	Score
	Score
Value	Score
rage Susceptibility Score	
k Rating (From Table D3)	
Compliance rating	
coring of parameters where	e there may l
	k Rating (From Table D3) Compliance rating



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)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap	10	-30% overlap		0% 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).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high counterability). efault score for rget 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	ь	Individuals < size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity can escape or avoid gear.	ь	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	re	vidence of majority leased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.

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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	Spe	cies Name		
	Impac	ts On Species Categorise	d as Vulnerable by D1-D3 - Minimum Requirements	
	D4.1		of the fishery on this species are considered during the management le measures are taken to minimise these impacts.	
	D4.2	There is no substantia species.	I evidence that the fishery has a significant negative impact on the	
		•	Outcome:	
D4.1:	The net			
reasor	hable me	easures are taken to mir	shery on this species are considered during the management process, imise these impacts. that the fishery has a significant negative impact on the species.	and
reasor D4.2 T Refere	hable me	easures are taken to mir	imise these impacts.	and
reasor D4.2 T	hable me	easures are taken to mir	imise these impacts.	and
reasor D4.2 T Refere Links	here is r	easures are taken to mir	imise these impacts.	and
reasor D4.2 T Refere Links	here is r nces Trust Sta	easures are taken to min	imise these impacts. that the fishery has a significant negative impact on the species.	and