



MarinTrust Standard V2

By-product Fishery Assessment

ESP19 - Skipjack tuna, FAO 41

(Western Atlantic Ocean Skipjack)

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Skipjack tuna (Katsuwonus pelamis)	
	Geographical area:	FAO 41	
Fishery Under Assessment	Country of origin of the product:	Spain, Portugal, Brazil	
	Stock:	Western Atlantic Ocean Skipjack	
Date	June 2024		
Report Code	ESP19		
Assessor	Vineetha Aravind		
Country of origin of the product - PASS	Spain, Portugal, Brazil		
Country of origin of the product - FAIL	NA		

Application details and	summary of the assess	ment outcome		
Company Name(s): Ar	teixo, Conserveros Reu	nidos SL (CONR	ESA)	
Country: Spain				
Email address:		Applicant Cod	e:	
Certification Body Deta	ails			
Name of Certification Body:		LRQA		
		Assessment	Initial/Surveillance/	
Assessor	Peer Reviewer	Days	Re-approval	
		Days		
Vineetha Aravind	Sam Peacock	0.2	Surveillance 1	
Assessment Period	June 2024 – June 2025	i		

Scope Details	
Main Species	Skipjack tuna (Katsuwonus pelamis)
Stock	Western Atlantic Ocean Skipjack
Fishery Location	FAO 41
Management Authority (Country/ State)	International Commission for the Conservation of Atlantic Tuna (ICCAT)
Gear Type(s)	Longline, pole and line, purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with assessment outcome
Recommendation	PASS



Table 2. Assessment Determination

Assessment Determination

To be approved as Marin Trust raw material, the species should not appear as Endangered or Critically Endangered in the IUCN Red list and should not appear in CITES appendices. Skipjack tuna is categorised as Least Concern in the IUCN Red List and, it does not appear in CITES appendices; therefore, it is eligible for approval for use as Marin Trust by-product raw material.

Western Atlantic Skipjack is managed by the International Commission for the Conservation of Atlantic Tunas (ICCAT) relative to reference point (B_{MSY}) and is therefore assessed under Category C.

The last stock assessment for Western Atlantic Skipjack was in 2022 using catch data up to 2020 (recorded in the initial audit). The stock is not overfished and not subject to overfishing with a high probability (91%). The biomass is estimated to be above the target reference point and the product meets the MarinTrust requirements for use as raw material.

Fishery Assessment Peer Review Comments

The peer reviewer agrees that this species is eligible for assessment under the MarinTrust byproduct assessment methodology, and that the stock falls into Category C. The most recent stock assessment was adequate to meet the requirements of C1.1, and biomass is currently estimated to be above the target reference point level, meeting the requirements of C1.2. Overall, the peer reviewer agrees that this stock should be approved as a source of byproduct raw material for MarinTrust certified facilities.

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	Western Atlantic 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.

Spe	ecies	Name	Skipjack	
C1	Catego	ory C Stock Sta	atus - Minimum Requirements	
CI	C1.1	Fishery remo	ovals of the species in the fishery under assessment are included in the stock assessment	PASS
		process, OR a	are considered by scientific authorities to be negligible.	
	C1.2	reference po	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific be negligible.	PASS
		•	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.

Regular stock assessments are carried out for East Atlantic Skipjack tuna by the ICCAT. The assessment was conducted using a Bayesian state-space production model (JABBA) and an integrated statistical assessment model (Stock Synthesis). Available catch data and a range of other fishery data are used for the assessment. The results of both the models agreed with each other.

As fishery removals are included in the stock assessment (Figure 1), C1.1 is met.

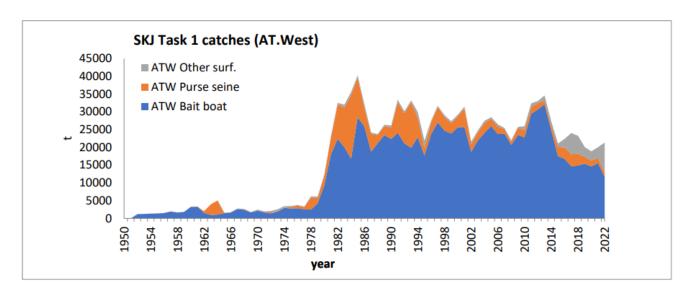


Figure 1: Skipjack catches in the western Atlantic, by gear (1950-2022). The values for 2022 are preliminary (ICCAT 2022)

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 assessment of the western skipjack stock was conducted using a Bayesian state-space production model (JABBA) and an integrated statistical assessment model (Stock Synthesis). The results of both the models agreed with each other. Based on the combined results used to the develop management advice, the median estimate of SSB_{2020}/SSB_{MSY} is 1.60, and the median estimated for F_{2020}/F_{MSY} is 0.41. The combined results of all runs indicates that the western skipjack stock is estimated to be in healthy condition with 91% probability of being in the green quadrant, and that the stock is not overfished nor undergoing



overfishing. As it is highly likely that biomass is currently above the target reference point, it is also highly likely to be above any potential limit reference point, and C1.2 is met.

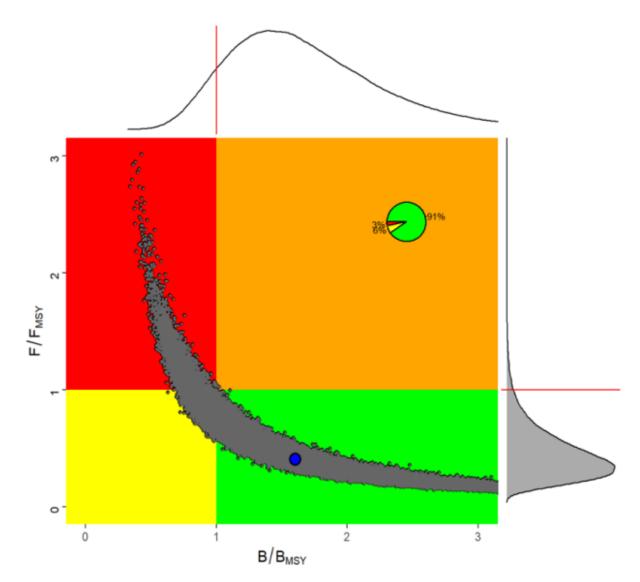


Figure 2: Combined Kobe phase plot for the various models performed for Western Atlantic skipjack tuna in 2022. The blue point shows the median of 200,000 iterations for SSB2020/SSBMSY and F2020/FMSY for the entire set of runs in the grid. Grey points represent the 2020 estimates of relative fishing mortality and relative spawning stock biomass for 2020 for each of the 200,000 iterations. The upper graph represents the smoothed frequency distribution of SSB/SSBMSY estimates for 2020. The right graph represents the smoothed frequency distribution of F/FMSY estimates for 2020. The inserted pie graph represents the percentage of each 2020 estimate that fall in each quadrant of the Kobe plot (ICCAT 2022).

References

ICCAT (2022). Species executive summary, skipjack tuna. https://www.iccat.int/Documents/SCRS/ExecSum/SKJ_ENG.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	NA	
	Productivity Attribut	te 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	stock/species	
	within the water column relative to the	ne 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	y scoring (where relevant) rovide a brief rationale for scoring of parameters wher	e there may be
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)		igh susceptibility igh 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).		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	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	re	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	Spe	cies Name		
	Impac	ts On Species Categorise	d 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	e 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:	
Eviden	ice			
	-	easures are taken to min	shery on this species are considered during the management process, a imise these impacts.	ana
D4.2 T	here is r		hat the fishery has a significant negative impact on the species.	
D4.2 T				
Refere Links	ences			
Refere Links	ences Trust Sta	o substantial evidence t	hat the fishery has a significant negative impact on the species.	