

MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

	Species:	Bullet tuna, Auxis rochei	
	Geographical area:	FAO Area 87, Pacific Southeast	
Fishery Under Assessment	Country of origin of the product:	Ecuador	
	Stock:	Eastern Pacific Ocean bullet tuna	
Date	18/10/2021		
Report Code	BP212		
Assessor	Virginia Polonio		
Country of origin of the product - PASS	Ecuador		
Country of origin of the product - FAIL	NA		

Application details and	summary of the assess	sment outcome				
Name:						
Address:						
Country: Ecuador		Zip:				
Tel. No.:		Fax. No.:				
Email address:		Applicant Code:				
Key Contact:		Title:				
Certification Body Deta	ails					
Name of Certification	Body:	Global Trust Certification				
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval			
Virginia Polonio Geraldine Criquet		0.5	Surveillance 1			
Assessment Period To October 2021						

Scope Details	
Main Species	Bullet tuna, Auxis rochei
Stock	Eastern Pacific Ocean bullet tuna
Fishery Location	FAO Area 87, Pacific Southeast
Management Authority (Country/ State)	Vice Ministry of Aquaculture and Fisheries of Ecuador (MPCEIP) and IATTC
Gear Type(s)	Purse seine and longlines
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's recommendation of approval
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 MarinTrust raw material of Bullet tuna, *Auxis rochei*, do not appear as Endangered or Critically Endangered on IUCN's Red List, nor do they appear in CITES appendices; therefore, of Bullet tuna, *Auxis rochei in* FAO 87 is eligible for approval for use as MarinTrust by-product raw material.

Bullet tuna is considered together with similar species under Other tunas and tuna-like species. No stock management measures, or stock assessment are available for this stock.

Hence, due to the lack of scientific information on the status of the stock a risk-assessment style approach was taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) approach as per MarinTrust v 2.0 procedures for Category D species. Therefore, following Marin Trust criteria, the stock is classified as Category D.

Table D1 (PSA) has achieved a PASS therefore, the average for the PSA risk rating results in the species passing D1

Therefore, of Bullet tuna, *Auxis rochei* in FAO Area 87 is **APPROVED** area for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The assessor correctly classified the Pacific Eastern Ocean bullet tuna stock as category D, reference points are not defined to assess status of the stock relative to.

With an average productivity score of 1.57 and an average susceptibility score of 2, the Pacific Eastern Ocean bullet tuna PASSES Clause D1 in accordance with Table D3.

Therefore, the Pacific Eastern Ocean bullet tuna should be approved.

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
Bullet tuna	Auxis rochei	FAO Area 87, Pacific Southeast	Vice Ministry of Aquaculture and Fisheries of Ecuador (MPCEIP) and IATTC	D	LC	No

¹ https://www.iucnredlist.org/

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

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.

Productivity Attribute	Value	Score
Average age at maturity (years)	2	2
Average maximum age (years)	6	1
Fecundity (eggs/spawning)	31,000 and 103,000	1
Average maximum size (cm)	50	1
Average size at maturity (cm)	35	2
Reproductive strategy	Open water / substratum egg scatterers	1
Mean trophic level	4.4	3
	Average Productivity Score	1.57
Susceptibility Attribute	Value	Score
Overlap of adult species range with fishery	No information	-
Distribution	Throughout region / global distribution*	1
Habitat	Epi-pelagic in neritic waters	Not use
Depth range	0-200m	1
	Mesh size 2.5-9cm	3
Selectivity	1110311 3120 2.3 30111	
<u> </u>	Most dead	3
Selectivity		3 2
Selectivity	Most dead	



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	

Availability 1) Overlap of adult species range with fishery		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk	
		Score 3	Score 2	Score 1 <25% of stock occurs in the area fished	
		>50% of stock occurs in the area fished	Between 25% and 50% of the 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	4 Species Name					
	Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements					
	D4.1	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.				
			Outcome:			
	here is r	easures are taken to min	that the fishery has a significant negative impact on the species.			
Links						
MARIN	NTRUST	Standard clause	1.3.2.2, 4.1.4			
FAO C	CRF		7.5.1			
GSSI			D.5.01			