



## MarinTrust Standard V2

# By-product Fishery Assessment Bullet tuna in FAO Area 87 (Pacific South-East)

#### **MarinTrust Programme**

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# Table 1 Application details and summary of the assessment outcome

	Species:	Bullet tuna (Auxis rochei)
	Geographical area:	FAO 87, Pacific South-East
Fishery Under Assessment	Country of origin of the product:	Ecuador
	Stock:	Eastern Pacific bullet tuna
Date		October 2022
Report Code		ECU05
Assessor		Sam Peacock
Country of origin of the product - PASS		Ecuador
Country of origin of the product - FAIL		None

Application details and	I summary of the assess	sment outcome		
Company Name(s): UF	RISA SA			
Country: Ecuador				
Email address: marco@urisaecuador.com		Applicant Code	e:	
Certification Body Details				
Name of Certification Body:		LRQA		
		Assessment	Initial/Surveillance/	
Assessor	Peer Reviewer	Days	Re-approval	
		Days		
Sam Peacock	Kate Morris	0.25 Surveillance		
Assessment Period		October 2022 -	– October 2023	

Scope Details	
Main Species	Bullet tuna (Auxis rochei)
Stock	Eastern Pacific bullet tuna
Fishery Location	FAO 87, Pacific South-East
Management Authority (Country/ State)	Inter-American Tropical Tuna Commission (IATTC)
Gear Type(s)	Purse seine, Longline
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Maintain approval



#### Table 2. Assessment Determination

#### **Assessment Determination**

Bullet tuna has been categorised by the IUCN as Least Concern and does not appear in the CITES appendices. The stock structure of bullet tuna in the Eastern Pacific is not known. While reference points are established for the species in Ecuadorian waters, across the area covered by this byproduct assessment as a whole there are no reference points, species-specific management measures, or stock assessments. For these reasons, the stock was assessed under Category D, as previously.

Bullet tuna was awarded a Productivity score of 1.29 and a Susceptibility score of 2.5, leading to a Pass rating on Table D3. Therefore, the stock should be approved for use as a raw material in MT-certified marine ingredients.

#### **Fishery Assessment Peer Review Comments**

The by-product fishery under assessment here is the Eastern Pacific Bullet tuna (*Auxis rochei*) fishery pursued by Ecuadorian vessels in FAO fishing area 87. The fishery is managed by the Inter-American Tropical Tuna Commission (IATTC) and Local governments. For this Marin Trust assessment, Bullet tuna is scored as a category D as it is not managed to reference points.

All species scoring tables have 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 fishery under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.



#### **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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Bullet tuna	Auxis rochei	Eastern Pacific bullet tuna	No	D	Least Concern <sup>3</sup>	No

<sup>&</sup>lt;sup>1</sup> https://www.iucnredlist.org/

<sup>&</sup>lt;sup>2</sup> https://cites.org/eng/app/appendices.php

<sup>&</sup>lt;sup>3</sup> https://www.iucnredlist.org/species/170355/6765188



#### **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.

		s Name	
<b>C1</b>	Categ	gory C Stock Status - Minimum Requirements	
CI	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.	
	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:	
C1.1	Fishery	removals of the species in the fishery under assessment are included in the stock assessment process, of	OR are
consi	dered b	by scientific authorities to be negligible.	
C1.2			
	The spe	ecies is considered, in its most recent stock assessment, to have a biomass above the limit reference po	int (or
	-	ecies is considered, in its most recent stock assessment, to have a biomass above the limit reference po	int (or
	-	ecies is considered, in its most recent stock assessment, to have a biomass above the limit reference polemovals by the fishery under assessment are considered by scientific authorities to be negligible.	int (or
	-		int (or
	-		int (or
proxy	-		int (or
proxy	/), OR re		int (or
proxy	/), OR re		int (or
proxy	r), OR re		int (or
Refer	r), OR re		int (or
Refer	ences	emovals by the fishery under assessment are considered by scientific authorities to be negligible.	int (or



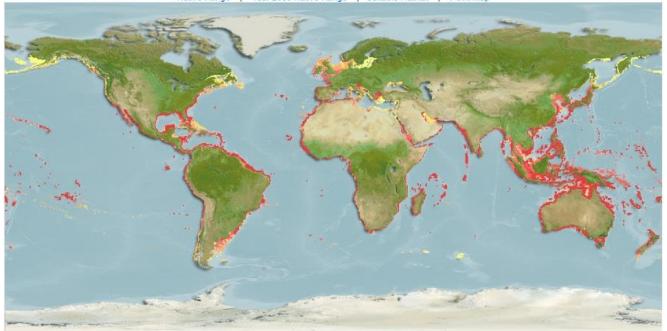
#### **CATEGORY D SPECIES**

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.

Species Name	Bullet tuna	
Productivity Attribute	Value	Score
Average age at maturity (years)	1.7 years	1
Average maximum age (years)	7.1 years	1
Fecundity (eggs/spawning)	31,000 – 103,000	1
Average maximum size (cm)	50cm	1
Average size at maturity (cm)	26.6cm	1
Reproductive strategy	Broadcast spawner	1
Mean trophic level	4.4	3
	Average Productivity Score	1.29
Susceptibility Attribute	Value	Score
Availability (area overlap)	<10% overlap	1
Encounterability (the position of the stock/species within the water column relative to the fishing gear)	Targeted	3
Selectivity of gear type	Retained	3
Post-capture mortality	Retained	3
	Average Susceptibility Score	2.5
	PSA Risk Rating (From Table D3)	Pass
	Compliance rating	Pass

#### Further justification for susceptibility scoring (where relevant)

For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision



Bullet tuna, computer-generated distribution map. From Fishbase, <a href="https://www.fishbase.se/summary/93">https://www.fishbase.se/summary/93</a>



#### References

Fishbase, bullet tuna. <a href="https://www.fishbase.se/summary/93">https://www.fishbase.se/summary/93</a>

Standard 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	<1	0% overlap	10	-30% overlap	>3	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	igh overlap with hing gear (high neounterability). 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

<b>D4</b>	Spe	ecies Name
	Impac	ts 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 substantial evidence that the fishery has a significant negative impact on the species.
	•	Outcome:
Eviden	nce	<u> </u>
D4.2 T	here is r	no substantial evidence that the fishery has a significant negative impact on the species.
D4.2 T		no substantial evidence that the fishery has a significant negative impact on the species.
		no substantial evidence that the fishery has a significant negative impact on the species.
Refere	ences	no substantial evidence that the fishery has a significant negative impact on the species.  andard clause  1.3.2.2, 4.1.4

D.5.01

GSSI