



MarinTrust Standard V2

By-product Fishery Assessment Bluefin tuna (Thunnus thynnus) in FAO 27, 37 (Eastern Atlantic and Mediterranean waters)

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Table 1 Application details and summary of the assessment outcome

	Species:	Bluefin tuna (Thunnus thynnus)	
	Geographical area:	FAO Area 27, 37 (Eastern Atlantic and	
Eich am dthadan		Mediterranean waters)	
Fishery Under Assessment	Country of origin of the product:	Spain (Flag country)	
	Stock:	Eastern Atlantic and Mediterranean waters Bluefin tuna, FAO 27 and 37	
Date	22 May 2023		
Report Code	ESP04		
Assessor	Léa Lebechnech		
Country of origin of the product - PASS	Spain (Flag country)		
Country of origin of the product - FAIL	NA		

Application details and summary of the assessment outcome					
Company Name(s): H	IJOS DE EMILIO RAMIRE	Z, S.A.			
Country: Spain					
Email address:		Applicant Cod	Applicant Code:		
Certification Body Details					
Name of Certification Body:		Global Trust C	Global Trust Certification		
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval		
éa Lebechnech Matthew Jew		0.5	Surveillance 1		
Assessment Period	To May 2023				

Scope Details				
Main Species	Bluefin tuna (Thunnus thynnus)			
Stock	Eastern Atlantic and Mediterranean waters Bluefin tuna, FAO 27 and 37			
Fishery Location FAO 27 (Northeast Atlantic) and 37 (Mediterranean waters)				
Management Authority	International Commission for the Conservation of Atlantic Tunas			
(Country/ State)	(ICCAT) and Contracting (State) Parties			
Gear Type(s)	Longlines and purse seines			
Outcome of Assessment				
Peer Review Evaluation	Agree with assessor's recommendation			
APPROVED APPROVED				

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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 Marin Trust raw material. Bluefin tuna (*Thunnus thynnus*) is considered "least concern" by IUCN: it is then not listed as Endangered or Critically Endangered on IUCN's Red List and not listed in CITES appendices; therefore bluefin tuna is eligible for approval for use as MarinTrust by-product raw material.

Bluefin tuna in the eastern Atlantic and the Mediterranean (known as eastern bluefin tuna) is managed by ICCAT, an intergovernmental regional fishery management organisation established in 1966. Following the scientific committee's warnings on a possible stock collapse and increasing public concern, ICCAT adopted in 2006 a bluefin tuna recovery plan for 2007-2022 (Recommendation 06-05). It introduced restrictive measures, such as shortening the fishing season and protecting juvenile fish by increasing the minimum fishing size. The recovery plan was gradually reinforced in the following years. In particular, ICCAT agreed on a significant decrease in the TACs, which after 2010 reached the level of the scientific advice. Subsequent stock assessments in 2012-2014 displayed positive trends, and perception of the state of the bluefin tuna stock greatly improved. In 2014, following scientific advice, ICCAT endorsed a 20% annual TAC increase for the next three years. In 2017, the scientific committee recommended a progressive increase of the TAC up to 36 000 tonnes in 2020. It also showed that the state of the stock no longer appears to require the emergency measures of the recovery plan. Accordingly, in 2018 ICCAT moved from the recovery plan to a management plan (Recommendation 18-02), which entered into force in June 2019. Subsequently, ICCAT amended the management plan in November 2019 (Recommendation 19-04).

The 2017 and 2020 Bluefin tuna assessment results have been derived from a Virtual Population Analysis (VPA) (ICCAT, 2020). The stock is assessed as Category C. The 2020 updated stock assessment has included the indices used for the 2017 stock assessment (seven CPUE series and three fisheries independent indices) which were updated up to 2018. The 2017 assessment estimated B_{MSY} to be around 270,000 tonnes. Although the 2020 updated stock assessment made no reference to B_{MSY} or other biomass-based reference points, SSB is projected to be higher than 750,000 tonnes and hence the stock is highly likely to have a biomass above the limit reference point (or proxy). Furthermore, given the large biomass increase and the low fishing mortality, it is highly likely that the stock is not reproductively impaired (i.e. below limit reference point). The fishery passes Clause C1.1. and C1.2.

Therefore, bluefin tuna in FAO 27 and 37 is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products.

Fishery Assessment Peer Review Comments

The assessor correctly classified bluefin tuna (*Thunnus thynnus*) in FAO 27 and 37 as Category C, the stock is subject to a specific management regime (ICCAT).

Fishery removals are considered in the stock assessment process. The most recent stock assessment shows that the stock is not considered overfished by ICCAT. Therefore, the stock is considered to have biomass above the limit reference point (or proxy).

Bluefin tuna (*Thunnus thynnus*) in FAO 27 and 37 passes both clauses (C1.1 and C1.2) and therefore should be approved under the MarinTrust Standard v.2.

Notes for On-site Auditor

N/A

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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
Bluefin tuna	Thunnus	Eastern Atlantic and	ICCAT and	С	LC (Global)	No
	thynnus	Mediterranean waters	Contracting (State)			
		Bluefin Tuna	Parties			

¹ <u>https://www.iucnredlist.org/</u>

² <u>https://cites.org/eng/app/appendices.php</u>

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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	Species Name Bluefin tuna (Thunnus thynnus)					
C1	C1 Category C Stock Status - Minimum Requirements					
CI	C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment Yes process, OR are considered by scientific authorities to be negligible.					
	C1.2	The species is reference po	The species is considered, in its most recent stock assessment, to have a biomass above the limit Yes 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.					
considered by scientific authorities to be negligible. The 2017 and 2020 Bluefin tuna assessment results have been derived from a Virtual Population Analysis (VPA) (ICCAT, 2020, Three modelling platforms were used to conduct the assessment of the E-BFT in 2022. As in previous assessments, a virtue population analysis (VPA) was conducted, and two additional platforms, Stock Synthesis (SS) and the age-structured assessment programme (ASAP), were applied. Reported catches in the East Atlantic and Mediterranean reached a peak of over 50,000 t in 1996 and then decrease substantially, stabilizing at around the TAC levels established by ICCAT for the most recent period (Figure 1). Catches betwee 2017 and 2021 (as of September 2022) were respectively 23,665 t, 27,782 t, 31,134 t, 35,038 t and 35,075 t for the East Atlanti and Mediterranean, of which 16,450 t, 19,624 t, 22,041 t, 24,164 t and 24,729 t were reported for the Mediterranean for thos same years. The Committee is aware of ongoing, unquantified, IUU catches that represents a serious impediment to being able to determin the productivity of the stock and to provide reliable TAC advice. In response, the Committee urges identification an quantification of IUU catches so that it can provide more accurate biomass-based catch advice and obtain more accurat scientific understanding of stock productivity. Available information has demonstrated that catches of bluefin tuna from the East Atlantic and Mediterranean were seriousl under-reported between the mid-1990s through 2007. The Committee estimated that the realized total catch during this perio was likely of the order of 50,000 t to 61,000 t per year, based on the number of vessels operating in the Mediterranean Sea an their respective catch rates. Since the 2017 Stock Assessment, these estimates (1998-2007) have been treated as the actual catches. During the 2022 Stock Assessment meeting, the decision was made to use ten abundance indices up to 2020 (seven CPUE serie and three fisheries independe						

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2-5 and age 10+ fish showed an increasing trend since the 1970s, whereas the F for both the age group 2-5 and age 10 plus shows

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a drastic decline in fishing mortality since the establishment of the 2006 Recovery Plan (Figure 2). Recently, fishing mortality has been increasing, however, when average over all three models, fishing mortality is still below fishing mortality target.

Recruitments estimated by the three assessment platforms show considerable variability, especially over the recent period. In general, however, there are two distinct periods, one with low recruitments before 1990 and the other with higher recruitments thereafter (Figure 2).

An independent review concluded that the results of the 3 models are sufficient to provide general management advice that abundance has increased and is likely to continue to increase given recent patterns of fishing mortality (effort). However, the review also recommended against using the results from these models for TAC advice.

The current perception of the stock status depends on recruitment estimates which are highly uncertain. The different models showed a relatively wide range of stock status estimates relative to the F0.1 reference level, ranging from overfishing to not overfishing ($F_{CURRENT}/F_{0.1}$): VPA = 1.16; SS = 0.72 and ASAP = 0.54. To inform stock status, the Committee recommended that the results of the three models be considered equally, by integrating the results. The resultant point estimate of FCUR is below F0.1 ($F_{CURRENT}/F_{0.1}$ = 0.81; 95% CI 0.48-1.62), indicating a stock status determination of not overfishing. Furthermore, fishing mortality rates are much lower than those during the 1998-2007 period.

The 2017 assessment estimated B_{MSY} to be around 270,000 tonnes. Although the 2022 stock assessment made no reference to the B_{MSY} or other biomass-based reference point, SSB is projected to be higher than 750,000 tonnes and hence the stock is highly likely to have a biomass above the limit reference point (or proxy). Furthermore, given the large biomass increase and the low fishing mortality it is highly likely that the stock is not reproductively impaired (i.e. below limit reference point).



Figure 2. Comparisons of the trends in estimated spawning stock biomass (SSB), recruitment (age 1), F at age 2 to 5, and F at age 10 plus group between base cases by model platform: VPA (blue lines), Stock Synthesis (green lines), and ASAP (orange lines). The time series of recruitments for the VPA have the terminal three years removed as it is standard practice not to consider these due to their estimates being unreliable.

Source: ICCAT, 2022.

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EAST ATLANTIC AND MEDITERRANE	AN BLUFFIN TUNA SUMMARY					
LAST ATLANTIC AND MEDITERRAN	EAST ATLANTIC AND MEDITERRANEAN BLUEFIN TUNA SUMMARY					
Current reported catch (2021)	35,075 t*					
FCURRENT/F0.1 ²	0.81 (0.48-1.62)1					
Stock Status ³	Overfishing: No					
TAC 2022	36,000 t					
	¹ Mean and approximate 95% confidence interval from integrating across the uncertainty for each model. ² Fourness refers to the geometric mean of the estimates (a proxy for recent F levels) for 2017-2020 for VPA, and for 2018-					
2020 for ASAP and Stock Synthesis. For the VPA and ASAP,	F is measured as apical F, for Stock Synthesis F is exploitation					
rate in biomass. ³ Biomass reference points to determine stock status were p	ot estimated since the 2017 assessment due to uncertainty in					
recruitment potential. * As of September 2022.	or estimated since the 2017 assessment due to uncertainty in					
1	c and Mediterranean bluefin tuna.					
o ,	CAT, 2022.					
Therefore, the species is considered, in its most recent stock as	ssessment, to have a biomass above the limit reference point,					
so it PASSES Clause C1.2.						
References						
EU, 2022. MANAGEMENT PLAN FOR ATI	ANTIC BLUEFIN TUNA. European Parliament					
https://www.europarl.europa.eu/legislative-train/theme-fisheries-pech/file-management-plan-for-atlantic-						
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ICCAT 2020 2020 Advice to the Commission East Atlantic and	Mediterranean Sea stock assessment summary. International					
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Commission for the Conservation of Atlantic Tunas: <u>https://www.iccat.int/en/assess.html#</u>						
ICCAT 2022 Summary of the report of the 2022 ICCAT pactors Atlantic and Mediterranean bluefin turn stark assessment						
ICCAT, 2022. Summary of the report of the 2022 ICCAT eastern Atlantic and Mediterranean bluefin tuna stock assessment						
meeting (Madrid, Spain, hybrid meeting, 4-9 July 2022). International Commission for the Conservation of Atlantic Tunas:						
https://www.iccat.int/Documents/SCRS/ExecSum/EBFT_ENG.pdf						
Links						
MarinTrust Standard clause	1.3.2.2					
FAO CCRF	7.5.3					
GSSI	D.3.04, D5.01					