MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme
Unit C, Printworks
22 Amelia Street
London
SE17 3BZ
E: standards@marin-trust.com
T: +44 2039 780 819

Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Yellowfin tuna, *Thunnus albacares*
	Geographical area:	FAO Area 34 Atlantic Eastern Central
	Country of origin of the product:	Spain & Portugal
	Stock:	Atlantic yellowfin tuna
Date	20 April 2021	
Report Code	BP59	
Assessor	Geraldine Criquet	
Country of origin of the product - PASS	Spain & Portugal	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Address:			
Country: Spain & Portugal		Zip:	
Tel. No.:		Fax. No.:	
Email address:		Applicant Code:	
Key Contact:		Title:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Geraldine Criquet	Virginia Polonio	0.5	Surveillance 2
Assessment Period	April 2021		

Scope Details	
Main Species	Yellowfin tuna, *Thunnus albacares*
Stock	Atlantic yellowfin tuna
Fishery Location	FAO Area 34 Atlantic Eastern Central
Management Authority (Country/ State)	International Commission for the Conservation of Atlantic Tunas (ICCAT)/Spain & Portugal
Gear Type(s)	Longline, baitboat and purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's determination
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. Yellowfin tuna (*Thunnus albacares*) is not listed as Endangered or Critically Endangered on IUCN's Red List, nor it is listed in CITES appendices; therefore, Atlantic yellowfin tuna is eligible for approval for use as MARIN TRUST by-product raw material. There is a single yellowfin tuna stock in the Atlantic. This stock is managed at the international level by the International Commission for the Conservation of Atlantic Tunas (ICCAT). ICCAT conducts stock assessments; reference points are defined for the Atlantic yellowfin tuna stock The stock is classified as Category C. Fishery removals of the stock are considered in the various stock assessment processes so the stock **PASSES** Clause C1.1. In the most recent stock assessment, the stock is considered to have a biomass above the limit reference point, the stocks **PASSES** Clause C1.2. In order to be approved, the stock under assessment must pass both Clauses C1.1 and C1.2. Atlantic yellowfin tuna passes both Clauses C1.1 and C1.2, and therefore is APPROVED by the assessor for the production of fishmeal and fish oil under the current Marin Trust v.2.0 by-product Standard.
Fishery Assessment Peer Review Comments
The stock has been correctly categorised following Marin Trust criteria as there is a management plan for the species. Removals are considered in the stock assessment and the biomass has been above limits. The stock is not overfished and overfishing is not happening. Therefore, the species is approved for the production of fishmeal and fish oil under the current Marin Trust v.2.0 by-product Standard.
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]
Yellowfin tuna	*Thunnus albacares*	Atlantic yellowfin tuna	International Commission for the Conservation of Atlantic Tunas (ICCAT)/Spain & Portugal	C	NT	No

[1] https://www.iucnredlist.org/
[2] https://cites.org/eng/app/appendices.php

CATEGORY C SPECIES

In a whole fish assessment, Category C species are those which make up less than 5% of landings, but which are subject to a species-specific management regime. In most cases this will be because they are a commercial target in a fishery other than the one under assessment.

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.

Species Name	**Yellowfin tuna, *Thunnus albacares***	
C1	**Category C Stock Status - Minimum Requirements**	
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.	**PASS**
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.	**PASS**
	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.

A full stock assessment was conducted in 2019 applying two production models and one age-structured model to the available catch data through 2018. Total catches from the 1950-2018 period are shown in Figure 1.
Therefore, the stock **PASSES** Clause C1.1.

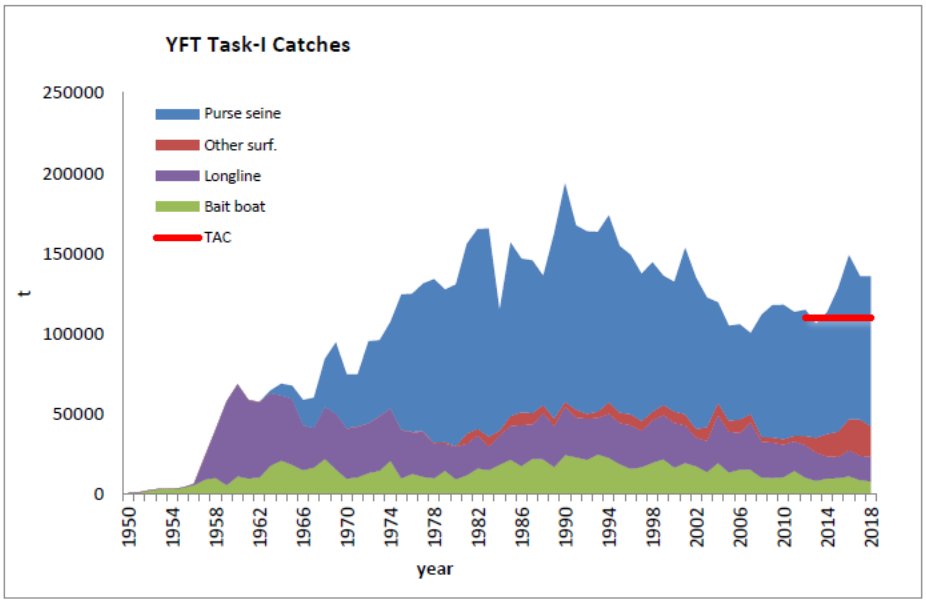

Figure 1. Yellowfin tuna total catch 1950 – 2018 by main fishing gear group. Source: ICCAT 2019

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.

A full stock assessment was conducted in 2019 applying two production models and one age-structured model to the available catch data through 2018. All models show that estimated biomass continuously declines through time. The combined results show that the median estimate of B_{2018}/B_{MSY} is 1.17 (Table 4) and that the stock is not overfished and overfishing is not occurring (Table 4, Figure 2).

Therefore, the assessor determines that, the stock is considered to have a biomass above the limit reference point, it **PASSES** Clause C1.2.

Table 4. Atlantic yellowfin tuna stock status summary. Source: ICCAT 2019

ATLANTIC YELLOWFIN TUNA SUMMARY

Estimates	Mean (90% confidence intervals)
Maximum Sustainable Yield (MSY)	121,298 t (90,428 - 267,350 t)[1]
2018 Yield	135,689 t
Relative Biomass[2]: B_{2018}/B_{MSY}	1.17 (0.75 - 1.62)
Relative Fishing Mortality: F_{2018}/F_{MSY}	0.96 (0.56 - 1.50)
2018 Total Biomass[3]	729,436 t
Stock Status (2018)	Overfished: No[4]
	Overfishing: No[5]

[Rec. 16-01]
- No fishing with natural or artificial floating objects during January and February in the area encompassed by the African coast, 20º W, 5ºN and 4ºS.
- TAC of 110,000 t (since Rec. 11-01).
- Specific authorization to fish for tropical tunas for vessels 20 meters or greater
- Specific limits of number of longline and/or purse seine boats for a number of fleets
- Specific limits on FADs, non-entangling FADs required

1) Minimum and maximum values of 90%LCI and 90%UCI among all runs by the Stock Synthesis, JABBA, and MPB
2) SSB (Stock Synthesis) or exploited biomass (production models)
3) Mean of the central estimates of the SS, JABBA and MPB models
4) (24% probability of overfished status)
5) (43% probability of overfishing taking place)

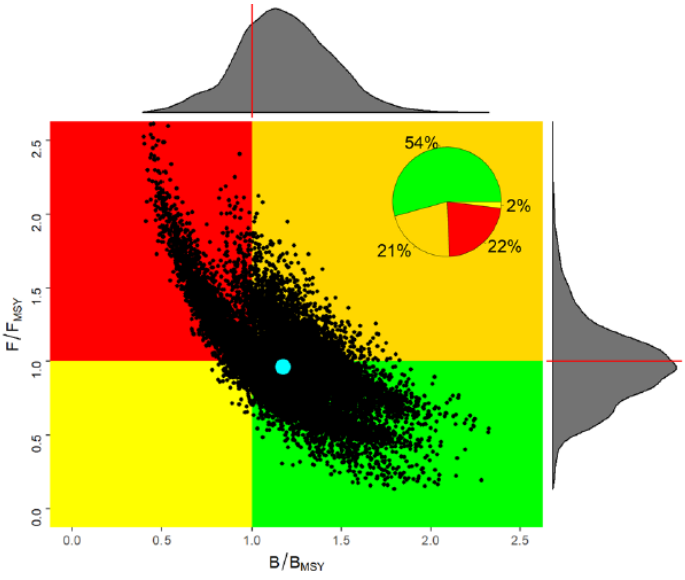

Figure 2. Kobe plot estimated from the combination of Stock Synthesis, JABBA and MPB model runs chosen to develop the management advice. Source: ICCAT 2019

References

Collette, B., Acero, A., Amorim, A.F., Boustany, A., Canales Ramirez, C., Cardenas, G., Carpenter, K.E., Chang, S.-K., de Oliveira Leite Jr., N., Di Natale, A., Die, D., Fox, W., Fredou, F.L., Graves, J., Guzman-Mora, A., Viera Hazin, F.H., Hinton, M., Juan Jorda, M., Minte Vera, C., Miyabe, N., Montano Cruz, R., Masuti, E., Nelson, R., Oxenford, H., Restrepo, V., Salas, E., Schaefer, K., Schratwieser, J., Serra, R., Sun, C., Teixeira Lessa, R.P., Pires Ferreira Travassos, P.E., Uozumi, Y. & Yanez, E. 2011. *Thunnus albacares*. *The IUCN Red List of Threatened Species* 2011: e.T21857A9327139. https://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T21857A9327139.en.

ICCAT Stock Assessment and Executive Summary – Yellowfin tuna

https://www.iccat.int/en/assess.html	
Links	
MARINTRUST Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01