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

Fishery Under Assessment	Species:	Skipjack tuna, *Katsuwonus pelamis*
	Geographical area:	FAO Area 77 Pacific Eastern Central
	Country of origin of the product:	Mexico
	Stock:	Eastern Pacific Ocean (EPO) skipjack tuna

Date	26 May 2021
Report Code	BP93
Assessor	Geraldine Criquet
Country of origin of the product - PASS	Mexico
Country of origin of the product - FAIL	NA

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: Mexico		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	To May 2021		

Scope Details	
Main Species	Skipjack tuna, *Katsuwonus pelamis*
Stock	Eastern Pacific Ocean (EPO) skipjack tuna
Fishery Location	FAO Area 77 Pacific Eastern Central
Management Authority (Country/ State)	Inter-American Tropical Tuna Commission (IATTC) / Mexico
Gear Type(s)	Purse seine, longline, pole & line, handline
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. Skipjack tuna (*Katsuwonus pelamis*) is not listed as Endangered or Critically Endangered on IUCN's Red List, nor it is listed in CITES appendices; therefore, Eastern Pacific Ocean skipjack tuna is eligible for approval for use as MARIN TRUST by-product raw material. The Eastern Pacific Ocean (EPO) skipjack tuna is managed at the international level by the IATTC through a multi-year conservation plan. IATTC conducts stocks assessments. Skipjack tuna is a difficult species to assess. A conventional stock assessment method for EPO skipjack is not possible due to the lack of age-composition data and tagging data. Neither biomass- nor fishing mortality-based reference points are available for EPO skipjack. Simple stock, status indicators (SSIs) based on relative quantities have been investigated by Maunder and Deriso (2007). In addition, a Productivity and Susceptibility Analysis (PSA) for EPO tropical tuna fisheries indicated that skipjack and bigeye have the same susceptibility to purse seine and that skipjack is much more productive than bigeye. Taking the risk analysis for bigeye as a reference IATTC infers the status of skipjack from the status of bigeye. 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 proxy for 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. Eastern Pacific Ocean skipjack 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 identified under category C. Removals of the species are included in the stock assessment and in the last stock assessment the stock has been above biomass limits or proxy. Therefore, the PR agrees with the assessor's determination.
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*	Eastern Pacific Ocean skipjack tuna	IATTC/Mexico	C	LC	No

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[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	Skipjack tuna, *Katsuwonus pelamis*	
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.

Data to support the stock assessment is derived from commercial catches: relative catches in weight, relative catch per set and relative average length of catch. Total catches (retained plus discards) are shown in Figure 1. Therefore, the stock **PASSES** Clause C1.1.
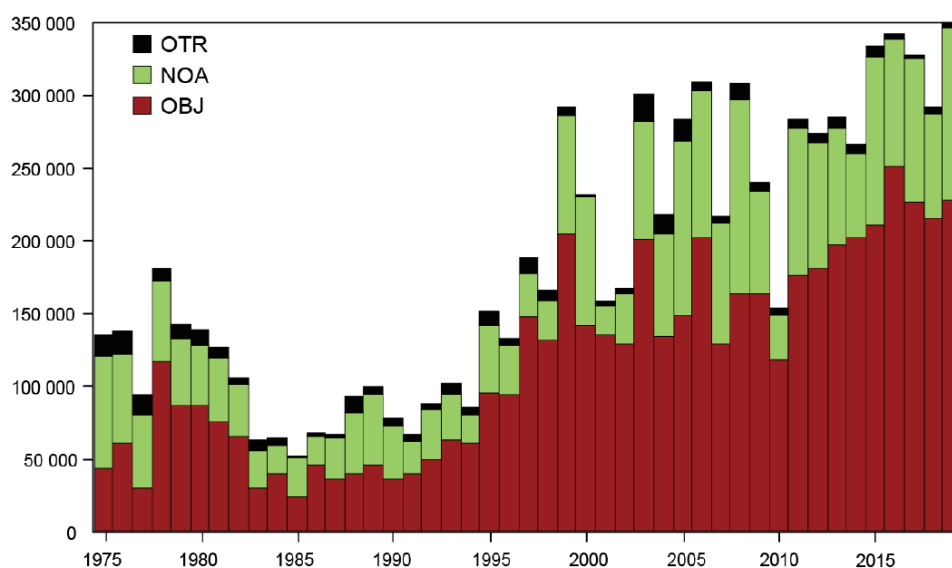

Figure 1. Total catches (retained catches plus discards) for the purse-seine fisheries, by set type (NOA, OBJ) and retained catches for the other (OTR) fisheries, of skipjack tuna in the eastern Pacific Ocean, 1975- 2019. The purse-seine catches are adjusted to the species composition estimate obtained from sampling the catches. The 2019 catch data are preliminary.

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.

Skipjack tuna is a difficult species to assess. A conventional stock assessment method for EPO skipjack is not possible due to the lack of age-composition data and tagging data. Neither biomass- nor fishing mortality-based reference points are available for EPO skipjack. Simple stock, status indicators (SSIs) based on relative quantities have been investigated by Maunder and Deriso (2007). The current SSIs include relative catches in weight, relative catch per set and relative average length (Figure 2).

Many of the indicators value for recent years are near their reference levels. Most of the floating-object fishery SSIs suggest that the skipjack has potentially been subject to increased fishing mortality.
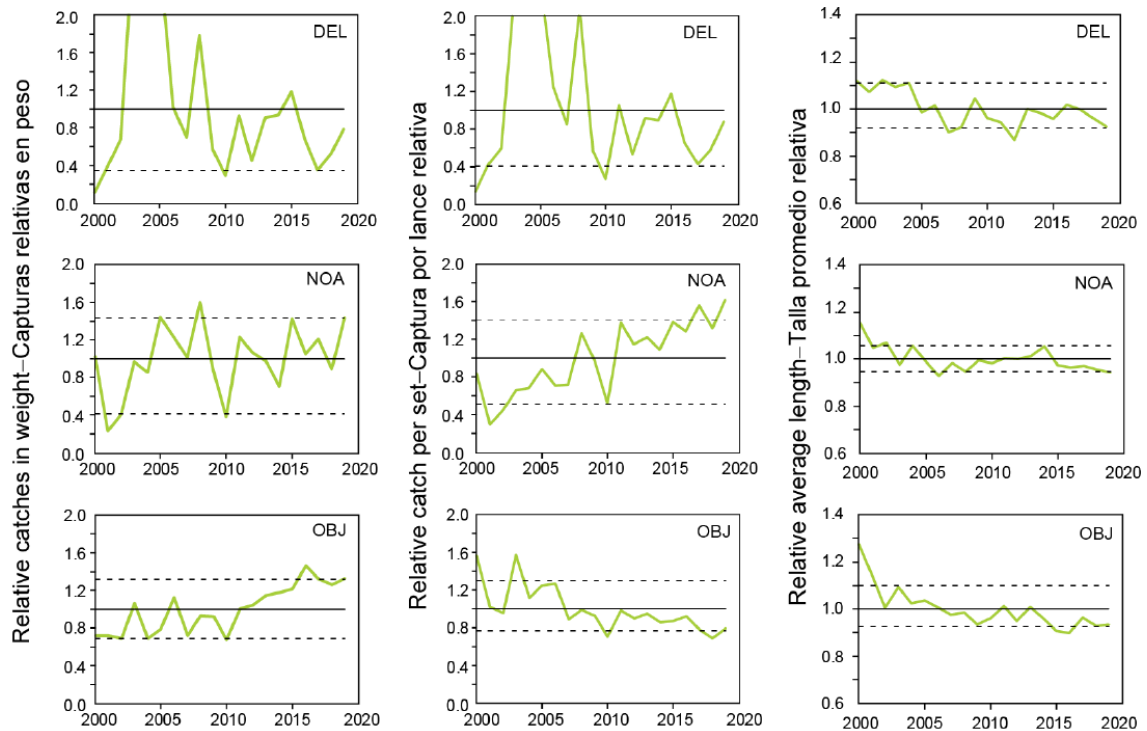
Figure 2. Indicators of stock status for skipjack tuna in the eastern Pacific Ocean. OBJ: floating-object fishery; NOA: unassociated fishery; DEL: dolphin associated fishery. All indicators are scaled so that their average equals one.

In addition, a Productivity and Susceptibility Analysis (PSA) for EPO tropical tuna fisheries indicated that skipjack and bigeye have the same susceptibility to purse seine and that skipjack is much more productive than bigeye. Taking the risk analysis for bigeye as a reference IATTC infers the status of skipjack from the status of bigeye:

- There is less than 53% probability that the current index of spawning biomass (S_{cur}) is below S_{MSY}.
- There is less than 6% probability that S_{cur} is below S_{lim}.

Based on the above evidence, the assessor determines that, the stock is considered to have a biomass above the proxy for the limit reference point, it **PASSES** Clause C1.2.

References

Collette, B., Acero, A., Amorim, A.F., Boustany, A., Canales Ramirez, C., Cardenas, G., Carpenter, K.E., de Oliveira Leite Jr., N., Di Natale, A., Fox, W., Fredou, F.L., Graves, J., Guzman-Mora, A., Viera Hazin, F.H., Juan Jorda, M., Kada, O., Minte Vera, C., Miyabe, N., Montano Cruz, R., Nelson, R., Oxenford, H., Salas, E., Schaefer, K., Serra, R., Sun, C., Teixeira Lessa, R.P., Pires Ferreira Travassos, P.E., Uozumi, Y. & Yanez, E. 2011. *Katsuwonus pelamis*. *The IUCN Red List of Threatened Species* 2011: e.T170310A6739812. https://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170310A6739812.en. Downloaded on 26 May 2021. https://www.iucnredlist.org/species/170310/6739812

IATTC 2021. Tuna fishery, stocks and ecosystem in the eastern Pacific Ocean in 2019. https://www.iattc.org/PDFFiles/FisheryStatusReports/_English/No-18-2020_Tunas%20billfishes%20and%20other%20pelagic%20species%20in%20the%20eastern%20Pacific%20Ocean%20in%202019.pdf

Links	
MARINTRUST Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01

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