



## MarinTrust Standard V2

### By-product Fishery Assessment

#### *Report Template*

#### *Vietnam Yellowfin Tuna*

#### FAO Areas 71 and 81

**MarinTrust Programme**

Unit C, Printworks

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**Table 1 Application details and summary of the assessment outcome**

Fishery Under Assessment	Species:	Yellowfin tuna, <i>Thunnus albacares</i>
	Geographical area:	FAO 71 (Pacific, western Central) and 81 (Pacific, Southwest)
	Flag country:	Vietnam
	Stock:	
Date	25 /07/2022	
Report Code	BP096	
Assessor	Heri	
Flag country - PASS	Vietnam	
Flag country - FAIL		

Application details and summary of the assessment outcome			
Company Name(s): Thien Quynh Co Ltd			
Country: Vietnam			
Email address: thienquynh.co@gmail.com		Applicant Code:	
Certification Body Details			
Name of Certification Body:		LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Heri	Kate Morris	0,5	Surveillance
Assessment Period	To July 2022		

Scope Details	
Main Species	Yellowfin tuna, <i>Thunnus albacares</i>
Stock	Western and Central Pacific Ocean (WCPO) yellowfin tuna
Fishery Location	FAO 71 (Pacific, western Central) and 81 (Pacific, Southwest)
Management Authority (Country/ State)	The Western and Central Pacific Fisheries Commission (WCPFC)
Gear Type(s)	Longlines and purse seines
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	

## Table 2. Assessment Determination

Assessment Determination
<p>If a 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.</p> <p>Yellowfin tuna (<i>Thunnus albacares</i>) is listed on the IUCN Red List as globally Less Concern (LC) and is not listed in CITES such that yellowfin derived products are eligible for approval for use as MarinTrust by-product raw material.</p> <p>For assessment and management purposes, the fishery managed under the Western and Central Pacific Fisheries Commission (WCPFC) is assessed under category C as reference points are defined for this stock.</p> <p>Fishery removals of WCPO yellowfin tuna stock is considered in their respective stock assessment processes such that the fishery PASSES Clause C1.1.</p> <p>As of the latest assessments, WCPO yellowfin tuna stock is considered to have a biomass above its limit reference point such that the fishery PASSES Clause C1.2.</p> <p>As both Clause C1.1 and C1.2 are met, the by-product covered by this report is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-product standard.</p>
Fishery Assessment Peer Review Comments
<p>The by-product fishery under assessment here is the Western and Central Pacific Ocean (WCPO) Yellowfin tuna (<i>Thunnus albacares</i>) fishery, targeted by Vietnamese vessels in FAO 71 and 81. Yellowfin tuna is correctly classified by the auditor as category C species and the C1 scoring table has been completed by the auditor with evidence to support their final determination. The assessment would benefit from additional information in C1.1. regarding reporting of catch by Vietnamese vessels to WCPO. The fishery under assessment passes C1 scoring.</p> <p>The peer review supports the auditor’s recommendation to approve this fishery under the Marin Trust IFFO RS v2.0 by-product standard for the production of fishmeal and fish oil.</p>
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 a MarinTrust raw material. material<sup>1</sup> If the IUCN assessment was completed more than 5 years prior to the time of the assessment please refer to the most recent stock assessment, ICES advice<sup>2</sup>, current national legislation or international binding agreements.

### 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>
Yellowfin tuna	<i>Thunnus albacares</i>	Indian Ocean yellowfin tuna	IOTC	C	LC	No

<sup>1</sup> <https://www.iucnredlist.org/>

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

## 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.

Species Name		Yellowfin tuna, <i>Thunnus albacares</i>	
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.	Yes
	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.	Yes

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.**

Each data for all fleet across gears are included in the stock assessment process by the via Western and Central Pacific Fisheries Commission (WCPFC). Vietnam tuna catch data reported in the annual catch estimates in the SC17-ST-IP-01 report. Regular session of the Science Committee gives updates on the stock assessment process. The last SC meeting shows data of landing data of tropical tunas by gears and years, including yellowfin tuna as shown in Figure 1.

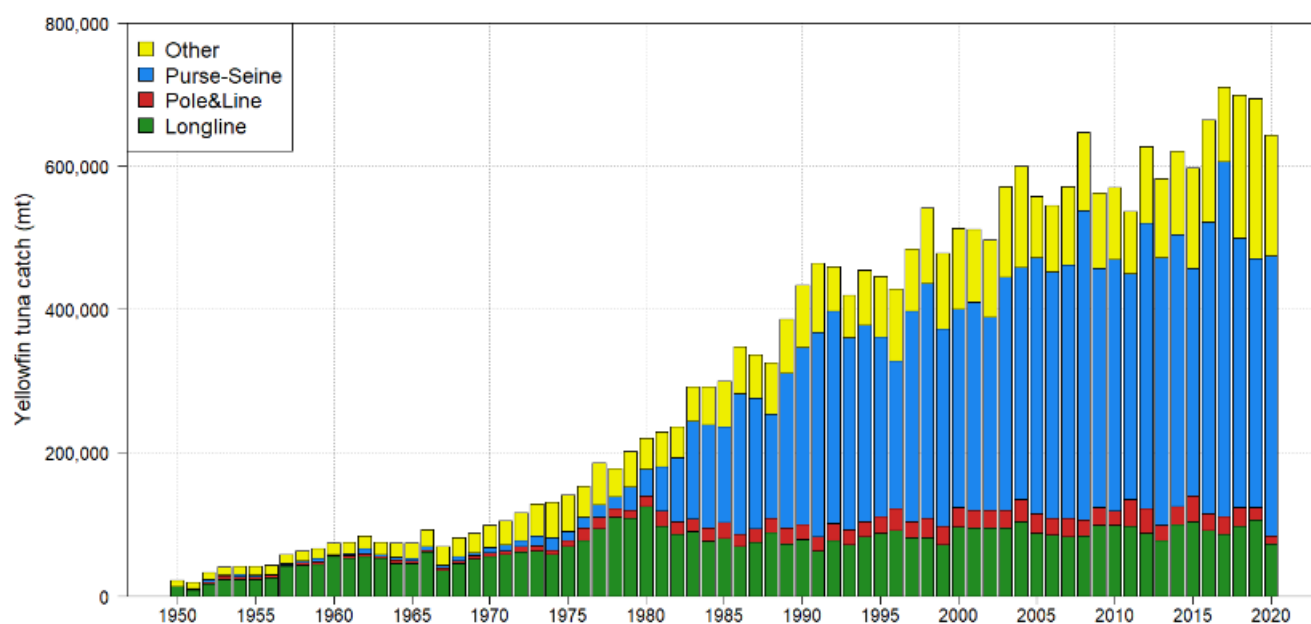


Figure 1. Yellowfin tuna catch (mt) by gear type and year for the WCPFC-Convention Area . Source: SC17-SA-IP-15

**Fishery removals of the species in the fishery under assessment are included in the stock assessment process.**

**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.

Based on the uncertainty grid adopted by SC16, the WCPO yellowfin tuna spawning biomass is above the biomass LRP and recent F is below FMSY. The stock is not experiencing overfishing (100% probability  $F < F_{MSY}$ ) and is not in an overfished condition (0% probability  $SB/SBF = 0 < LRP$ ). (Fig 2)

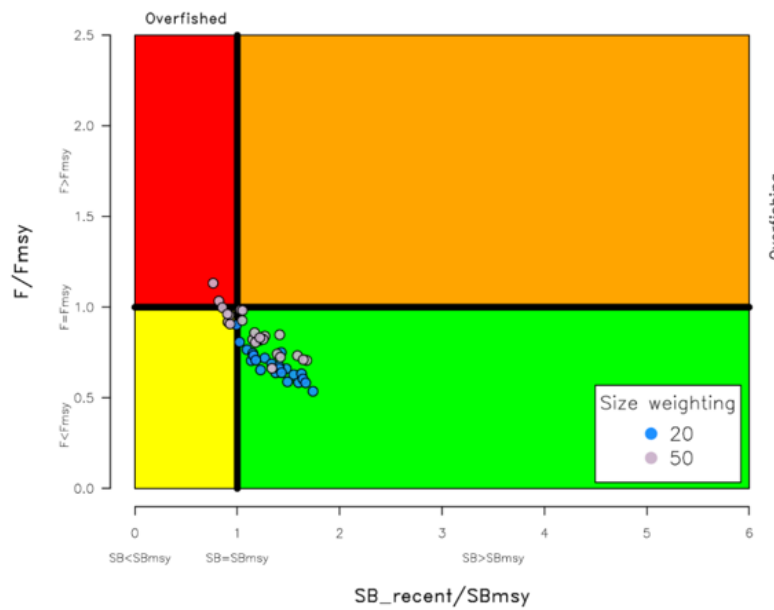
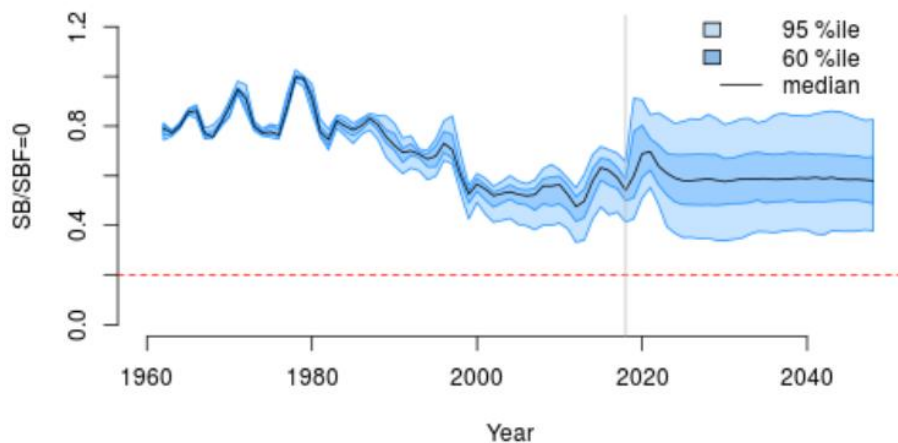


Figure 2. Kobe plot summarising the results for each of the models in the structural uncertainty grid. The points represent  $SB_{recent}/SB_{MSY}$ , the colours depict the models in the grid with the size composition weighting using divisors of 20 and 50. Source: SC16-SA-WP-04

Additionally, stochastic projections predict there to be no risk of breaching the LRP (0% probability  $SB_{2048}/SBF = 0 < LRP$ ). (Fig 3)



**Figure 3.** Time series of yellowfin tuna spawning biomass ( $SB_t/SBF=0$ , where  $SB_{t,F=0}$  is the average SB from  $t-10$  to  $t-1$ ) from the uncertainty grid of assessment models for the period 2000 to 2018, and stochastic projection results for the period 2019 to 2048 assuming 2016-2018 average catches in longline and other fisheries and 2018 effort in purse seine fisheries continue. Vertical gray line at 2018 represents the last year of the assessment. During the projection period (2019-2048) levels of

recruitment variability are assumed to match those over the time period used to estimate the stock-recruitment relationship (1962-2017). The red horizontal dashed line represents the agreed limit reference point  
**The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point**

**References**

<https://meetings.wcpfc.int/node/12573>

<https://meetings.wcpfc.int/node/12537>

<https://meetings.wcpfc.int/node/11694>

**Links**

<b>MarinTrust Standard clause</b>	1.3.2.2
<b>FAO CCRF</b>	7.5.3
<b>GSSI</b>	D.3.04, D5.01