



## 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:	Pacific Chub Mackerel, <i>Scomber japonicus</i>
	Geographical area:	FAO Area 87 Pacific, Southeast
	Country of origin of the product:	Spain and Portugal
	Stock:	FAO Area 87 Pacific Southeast
Date	20/10/2021	
Report Code	BP216	
Assessor	Virginia Polonio	
Country of origin of the product - PASS	Spain and Portugal	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Name:			
Address:			
Country: Spain and 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
Virginia Polonio	Geraldine Criquet	0.5	Surveillance 1
Assessment Period	To October 2021		

Scope Details	
Main Species	Pacific chub mackerel, <i>Scomber japonicus</i>
Stock	Pacific Southeast
Fishery Location	FAO Area 87 Pacific, Southeast
Management Authority (Country/ State)	Pacific Fishery Management Council (PFMC) and EU
Gear Type(s)	Pelagic trawl, purse seine
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's recommendation of approval
Recommendation	<b>APPROVED</b>

## Table 2. Assessment Determination

Assessment Determination
<p>If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in the CITES appendices, it cannot be approved for use as IFFO RS raw material. Pacific Chub mackerel does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in CITES appendices, therefore Pacific Chub mackerel is eligible for approval for use as MarinTrust raw material.</p> <p>The species is not subject to specific research and management regime. Therefore, following Marin Trust criteria, the stock is classified as Category D.</p> <p>In Chile, there is no information on stock status. The lack of scientific information on the status of the stock in the assessment area resulted in that a risk-assessment style approach was taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) as per requirements v 2.0 procedures for Category D species.</p> <p>The species has passed this risk-based assessment (Table D3). Pacific Southeast Chub mackerel is approved by the assessor for the production of fishmeal and fish oil under the MarinTrust v 2.0 by-products standard.</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly classified the Pacific chub mackerel stock as category D, reference points are not defined to assess status of the stock relative to.</p> <p>With an average productivity score of 1.57 and an average susceptibility score of 2.25, the Pacific chub mackerel PASSES Clause D1 in accordance with Table D3.</p> <p>Therefore, the Pacific chub mackerel should be approved.</p>
Notes for On-site Auditor
Empty space for notes

## 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>
Pacific Chub Mackerel	<i>Scomber japonicus</i>	FAO Area 87 Pacific, Southeast	Pacific Fishery Management Council (PFMC) and EU	D	LC	No

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

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

## CATEGORY D SPECIES

Category D species are those which make up less than 5% of landings and 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.

D1	Species Name	Pacific Chub Mackerel, <i>Scomber japonicus</i>	
	Productivity Attribute	Value	Score
	Average age at maturity (years)	2.0	2
	Average maximum age (years)	7.9	1
	Fecundity (eggs/spawning)	135,962 [ 86,616-213,422]	1
	Average maximum size (cm)	64.0	2
	Average size at maturity (cm)	22.0	1
	Reproductive strategy	Non guarders: open water/substratum egg scatterers	1
	Mean trophic level	3.4	3
	<b>Average Productivity Score</b>		<b>1.57</b>
	Susceptibility Attribute	Value	Score
	Overlap of adult species range with fishery	50% of the stocks occurs in area fished (Figure 1)	3
	Distribution	Not scored when overlap scored (table D2)	Not scored
	Habitat	Coastal pelagic	Not scored
	Depth range	50-200m	1
	Selectivity	Up to 4m in length	3
	Post-capture mortality	Tow 0.5 to 3 hours	2
	<b>Average Susceptibility Score</b>		<b>2.25</b>
	<b>PSA Risk Rating (From Table D3)</b>		<b>PASS</b>
	<b>Compliance rating</b>		<b>PASS</b>

### References



\*Figure 1. Distribution maps for *Scomber japonicus* (Chub mackerel), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. [www.aquamaps.org](http://www.aquamaps.org), version 10/201

Scarponi, P., G. Coro, and P. Pagano. A collection of Aquamaps native layers in NetCDF format. Data in brief 17 (2018): 292-296.

Fishbase Life History Data on *Scomber japonicus* Chub mackerel

<https://www.fishbase.de/summary/Scomber-japonicus.html>

[https://www.fishsource.org/stock\\_page/1647](https://www.fishsource.org/stock_page/1647)

Collette, B., Acero, A., Canales Ramirez, C., Cardenas, G., Carpenter, K.E., Chang, S.-K., Di Natale, A., Fox, W., Guzman-Mora, A., Juan Jorda, M., Miyabe, N., Montano Cruz, R., Nelson, R., Salas, E., Schaefer, K., Serra, R., Sun, C., Uozumi, Y., Wang, S., Wu, J. & Yeh, S. 2011. *Scomber japonicus*. The IUCN Red List of Threatened Species 2011: e.T170306A6737373. <https://dx.doi.org/10.2305/IUCN.UK.2011-2.RLTS.T170306A6737373.en>.

*Standard clauses 1.3.2.2*

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5–3.25	<2.5

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
		Score 3	Score 2	Score 1
Availability	1) Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished
	2) Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution
Encounterability	1) Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)
	2) Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)
Selectivity		Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh size or >5 m length
Post capture mortality		Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours

**Note:** Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

D3		Average Susceptibility Score		
		1 - 1.75	1.76 - 2.24	2.25 - 3
Average Productivity Score	1 - 1.75	PASS	PASS	PASS
	1.76 - 2.24	PASS	PASS	TABLE D4
	2.25 - 3	PASS	TABLE D4	TABLE D4

D4 Species Name			
<b>Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements</b>			
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.		
<b>Outcome:</b>			
<b>Evidence</b>			
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.			
<b>References</b>			
<b>Links</b>			
MARINTRUST Standard clause		1.3.2.2, 4.1.4	
FAO CCRF		7.5.1	
GSSI		D.5.01	