

IFFO RS Global Standard for Responsible Supply of Marine Ingredients

IFFO RS Limited

T: +44 (0) 2030 539 195 E: Standards@iffors.com W: www.iffors.com

Unit C, Printworks | 22 Amelia Street London, SE17 3BZ | United Kingdom





Global Standard for Responsible Supply of Marine Ingredients Fishery Assessment Methodology and Template Report V2.0

Version No.: 2.0

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IFFO RS

Global Standard for Responsible Supply of Marine Ingredients

Fishery Under Assessment	Bigeye tuna <i>Thunnus obesus</i> FAO 71, 77
Date	October 2019
Assessor	Jim Daly

Application details and summary of the assessment outcome					
Name: Piyo Bhokabhan					
Address:	Address:				
Country: Thailand		Zip:			
Tel. No.:		Fax. No.:			
Email address:		Applicant Code:			
Key Contact:		Title:			
Certification Body	Details				
Name of Certificat	ion Body:	SAI Global Ltd			
Assessor	Peer Reviewer	Assessment	Initial/Surveillance/R	Whole fish/ By-	
A5565501		Days	e-approval	product	
Jim Daly	Conor Donnelly	0.5	Initial	By-product	
Assessment	2019				
Period					

Scope	e Details				
Management Authority		The Western and Central	Pacific Fisheries Commission		
(Country/State)		(WCPFC)			
Main	Species	Bigeye tuna Thunnus obesus			
Stock:		Western and Central Pacific Ocean			
Fishe	Fishery Location Western and Central Pacific FAO 71,77				
Gear	Type(s)	Purse seine			
Outco	Outcome of Assessment				
Overall Outcomes:		Outcome	Clause(s) failed		
1	Western and Central Pacific FAO 71,77 Stock Bigeye tuna	PASS	NONE		
Peer	Peer Review Evaluation Agree with assessment outcome		ome		
Recor	mmendations	APPROVE APPROVE			

Assessment Determination

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. Bigeye tuna *Thunnus obesus* has been assessed as Vulnerable on IUCN's Red List. The species does not appear in the CITES appendices; therefore, Bigeye tuna *Thunnus obesus* is eligible for approval for use as an IFFO RS raw material.

For Bigeye tuna *Thunnus obesus* in the assessment area fishery removals are considered in the assessment process so the stock **PASSES** Clause C1.1.

For Bigeye tuna *Thunnus obesus* in the assessment area the most recent estimated spawning stock biomass (SSB) is above Blim; therefore, the stock **PASSES** Clause C1.2.

In order to be approved, each stock assessed must pass both Clause C1.1 and C1.2; therefore, Bigeye tuna *Thunnus obesus* in the assessment area **PASSES** and is approved for use by the assessment team for the production of fishmeal and fish oil under IFFO-RS v 2.0 by-products standard.

Peer Review Comments

Agree with assessment outcome

Notes for On-site Auditor

By-products

The process for completing the template for **by-product raw material** is as follows:

- 1. ALL ASSESSMENTS: Complete the Species Characterisation table with the names of the byproduct species and stocks under assessment. The '% landings' column can be left empty; all byproducts are considered as Category C and D.
- 2. IF THERE ARE CATEGORY C BYPRODUCTS UNDER ASSESSMENT: Complete clause C1 for **each** Category C by-product.
- 3. IF THERE ARE CATEGORY D BYPRODUCTS UNDER ASSESSMENT: Complete Section D.
- 4. ALL OTHER SECTIONS CAN BE DELETED. Clauses M1 M3, F1 F3, and Sections A and B do not need to be completed for a by-product assessment.

By-product approval is awarded on a species-by-species basis. Each by-product species scoring a pass under the appropriate section may be approved against the IFFO RS Standard.

SPECIES CATEGORISATION

The following table should be completed as fully as the available information permits. Any species representing more than 0.1% of the annual catch should be listed, along with an estimate of the

proportion of the catch each species represents. The species should then be divided into Type 1 and Type 2 as follows:

- **Type 1 Species** can be considered the 'target' or 'main' species in the fishery. They make up the bulk of annual landings and are subjected to a detailed assessment.
- **Type 2 Species** can be considered the 'bycatch' or 'minor' species in the fishery. They make up a small proportion of the annual landings and are subjected to relatively high-level assessment.

Type 1 Species must represent 95% of the total annual catch. Type 2 Species may represent a maximum of 5% of the annual catch (see Appendix B).

Species which make up less than 0.1% of landings do not need to be listed (NOTE: ETP species are considered separately). The table should be extended if more space is needed. Discarded species should be included when known.

The 'stock' column should be used to differentiate when there are multiple biological or management stocks of one species captured by the fishery. The 'management' column should be used to indicate whether there is an adequate management regime specifically aimed at the individual species/stock. In some cases, it will be immediately clear whether there is a species-specific management regime in place (for example, if there is an annual TAC). In less clear circumstances, the rule of thumb should be that if the species meets the minimum requirements of clauses A1-A4, an adequate species-specific management regime is in place.

NOTE: 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 an IFFO RS raw material. This applied to whole fish as well as by-products.

TYPE 1 SPECIES (Representing 95% of the catch or more)

Category A: Species-specific management regime in place. **Category B:** No species-specific management regime in place.

TYPE 2 SPECIES (Representing 5% OF THE CATCH OR LESS)

Category C: Species-specific management regime in place. **Category D:** No species-specific management regime in place.

Common name	Latin name	Stock	% of landings	Management	Category
Bigeye tuna	Thunnus obesus	FAO 71, 77	N/A	WCPFC	С

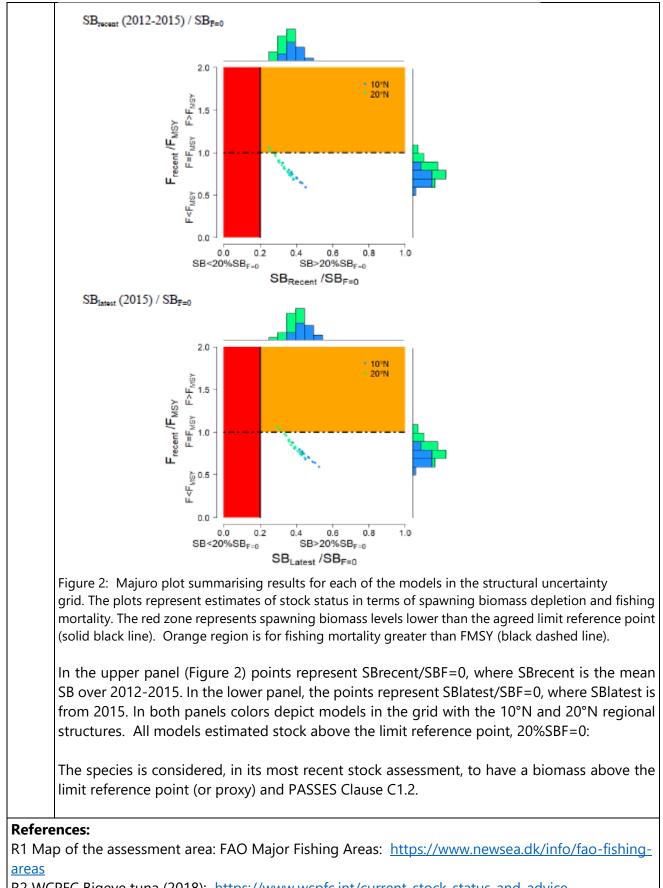
CATEGORY C SPECIES

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. 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. A Category C species does not meet the minimum requirements of clause C1 should be re-assessed as a Category D species.

Spe	Species Name Bigeye tuna Thunnus obesus			
C1	C1 Category C Stock Status - Minimum Requirements			
	C1.1	included in the stock assessment process OR are considered by scientific authorities to be negligible.		
	C1.2	a biomass a	is considered, in its most recent stock assessment, to have above the limit reference point (or proxy), OR removals by under assessment are considered by scientific authorities gible	PASS
Clause outcome:			PASS	

C1.1 Evidence C1.1: The Western and Central Pacific Fisheries Commission (WCPFC) manages the stock in the assessment area FAO 71, 77: 02 61 04 34 77 § 0°00' 03 87 Figure 1 Map of the assessment area R1 WCPFC's Scientific Committee (SC15) met in August 2019 and reported on latest catch advice. Bigeye catch for 2018 (142,402 mt - 5%) was lower than the previous 10-year average, but around 15,000 mt higher than 2017. SC15 also noted that no new assessment was undertaken since 2015 therefore, stock assessment advice from SC14 should be maintained. Population indicators used in the 2018 (SC14) stock assessment included: Total catch by gear, nominal CPUE trends, spatial distribution of catch and associated trends, size composition of the catch and trends in average size. Stock projections were performed based upon actual fishing levels by fleets in 2015 to 2019, based upon the assumption that levels of effort or catch would remain constant at 2015 levels. Fishery removals of the species in the fishery under assessment are included in the stock assessment process the stock **PASSES** Clause C1.1. C1.2: Median values of relative recent (2012-2015) spawning biomass depletion (SBrecent/SBF=0) and relative recent (2011-2014) fishing mortality (Frecent/FMSY) over an uncertainty grid of 36 models were used to define stock status. Values of the upper 90th and lower 10th percentiles of empirical distributions of relative spawning biomass and fishing mortality from the uncertainty grid were used to characterize the probable range of stock status. Kobe plots summarising the results for each of the models in the structural uncertainty grid were provided:



R2 WCPFC Bigeye tuna (2018): https://www.wcpfc.int/current-stock-status-and-advice

R3 WCPFC Scientific Committee SC15 (Sept 2019 Summary Report 273pp): https://www.wcpfc.int/meetings/sc15 R WCPFC Scientific Committee SC1 Summary Report (Aug 2018 308pp): https://www.wcpfc.int/node/32155

Standard clauses 1.3.2.2