

IFFO RSGlobal 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



IFFO RSGlobal Standard for Responsible Supply of Marine Ingredients



Fishery Under Assessment	Plaice <i>Pleuronectes platessa</i>		
	West of Scotland		
Date	June 2020		
Report Code	2020-109		
Assessor	Conor Donnelly		
Stock Pass	Plaice in ICES division 6.a		
Stock Fail			

Application details and summary of the assessment outcome						
Name:	Name:					
Address:						
Country: UK & Ire	land	Zip:				
Tel. No.:		Fax. No.:				
Email address:	Email address: Applicant Code:					
Key Contact:	y Contact: Title:					
Certification Body	y Details					
Name of Certifica	tion Body:	SAI Global Ltd				
Assessor Peer Reviewer		Assessment	Initial/Surveillance/	Whole fish/		
		Days	Re-approval	By-product		
Conor Donnelly	Virginia Polonio0.5Surv 1By-product			By-product		
Assessment	2020					
Period	2020					

Scope Details			
Management Authority	EU/Common Fisheries Policy		
(Country/State)	EO/COMMON FISHERIES POILCY		
Main Species	Plaice		
Stock:	Plaice in ICES division 6.a		
Fishery Location	West of Scotland		
Gear Type(s)	All (mainly bottom otter trawls)		
Outcome of Assessment			
Peer Review Evaluation	APPROVE		

Recommendations 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. Plaice does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in the CITES appendices; therefore, plaice is eligible for approval for use as IFFO- RS raw material.

The species is not subject to a species-specific research and management regime sufficient to pass a Category C assessment.

The comparative lack of scientific information on the status of the population in the assessment area means that a risk-assessment approach must be taken. The fishery was assessed using the risk-based Productivity, Susceptibility Analysis (PSA) as per IFFO-RS v 2.0 procedures for Category D species. The species has passed this risk-based assessment (Table D3).

Plaice in division 6.a is **APPROVED** by SAI Global assessors for the production of fishmeal and fish oil under the IFFO-RS v 2.0 by-products standard.

Peer Review Comments

PR agrees with the conclusions and no further comments are needed. The fishery achieves a pass for the production of fishmeal and fish oil under the IFFO-RS v 2.0 by-products standard.

Notes for On-site Auditor

HOW TO COMPLETE THIS ASSESSMENT REPORT

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 by-product species and stocks under assessment. The '% landings' column can be left empty; all by-products 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
Plaice	Pleuronectes platessa	Division 6.a	NA	EU (CFP)	D

CATEGORY D SPECIES

In a whole fish assessment, 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. In a by-product assessment, Category D species are those which are not subject to a species-specific management regime. In both cases, 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.

The process for assessing Category D species involves the use of a Productivity-Susceptibility Analysis (PSA) to further subdivide the species into 'Critical Risk', 'Major Risk' and 'Minor Risk' groups. If there are no Category D species in the fishery under assessment, this section can be deleted.

Productivity and susceptibility ratings are calculated using a process derived from the APFIC document "Regional Guidelines for the Management of Tropical Trawl Fisheries, which in turn was derived from papers by Patrick *et al* (2009) and Hobday *et al* (2007). Table D1 should be completed for each Category D species as follows:

- Firstly, the best available information should be used to fill in values for each productivity and susceptibility attribute.
- Table D2 should be used to convert each attribute value into a score between 1 and 3.
- The average score for productivity attributes and the average for susceptibility attributes should be calculated.
- Table D3 should be used to determine whether the species is required to meet the requirements of Table D4. A species which does not need to meet the requirements of D4 is automatically awarded a pass.
- Table D4 should be used to assess those species indicated by Table D3 to determine a pass/fail rating.
- Any Category D species which has been categorised by the IUCN Red List as Endangered or Critically Endangered, or which appears in the CITES appendices, automatically results in a fail.

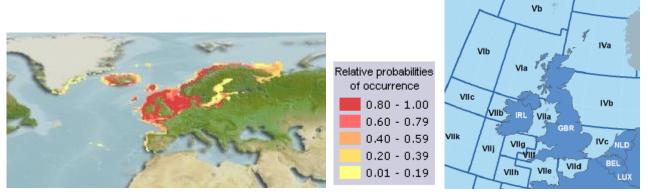
D1	Species Name:	Plaice Pleuronectes platessa			
	Productivity Attribute		Value	Score	
	Average age at maturity (years)	2.8	2	
	Average maximum age (y	ears)	20.0	2	
	Fecundity (eggs/spawning	g)	80,000 - 160,000	1	
	Average maximum size (cm)		40.0	1	
	Average size at maturity (cm)		30.8	2	
	Reproductive strategy		Broadcast spawner	1	
	Mean trophic level		3.2	2	
	Average Productivity Score			1.57	
	Susceptibility Attribute		Value	Score	
	Overlap of adult species ra	ange with fishery	>50%	3	
	Distribution	`	Not scored if overlap scored	-	
	Habitat		Demersal	3	

Depth range	0 – 200m, usually 10 – 50m	3
Selectivity	Up to 4m length	3
Post-capture mortality	Retained	3
Average Susceptibility Score		
PSA Risk Rating (From Table D3)		

References

Productivity attributes:

Fishbase. https://www.fishbase.de/Summary/SpeciesSummary.php?ID=1342&AT=plaice
Overlap attribute:



Left: Distribution of European plaice Pleuronectes platessa

(source: Computer generated distribution maps for *Pleuronectes platessa* (European plaice), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. www.aquamaps.org, version 10/2019 preliminary version. Accessed 25 Jun. 2020 https://www.aquamaps.org/receive.php?type_of_map=regular)

Right: ICES divisions in Northeast Atlantic

(source: https://ec.europa.eu/fisheries/sites/fisheries/files/docs/body/fishing-areas-en.pdf)

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	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 or<br="" size="">>5 m length</mesh>	
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		
		1.00 – 1.75	1.76 – 2.24	2.25 – 3.00
Average Productivity	1.00 – 1.75	PASS	PASS	PASS
Score	1.76 – 2.24	PASS	PASS	TABLE D4
	2.25 – 3.00	PASS	TABLE D4	TABLE D4