

IFFO RSGlobal Standard for Responsible Supply of Marine Ingredients



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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	Whiting <i>Merlangius merlangus</i> FAO 27 (Selected stocks excluding Division VIIa)		
Date	October 2019		
Assessor	Jim Daly		

Application details and summary of the assessment outcome						
Name: Copalis Industrie						
Address:						
Country: France		Zip:				
Tel. No.:		Fax. No.:				
Email address:		Applicant Code:				
Key Contact :		Title:				
Certification Body I	Certification Body Details					
Name of Certification	on Body:	SAI Global Ltd	SAI Global Ltd			
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/Reapproval	Whole fish/ By- product		
Jim Daly	Conor Donnelly	0.5	Surveillance 2	By-product		
Assessment Period	2019					

Scope Details				
Management Authority (Country/State)		EU/France		
Main Species		Whiting Merlangius merlangus		
Stocks:	1	Whiting (Merlangius merlangus) in Subarea 8 and Division 9. (Bay of Biscay and Atlantic Iberian waters)		
	2	Whiting (<i>Merlangius merlangus</i>) in Divisions 7.b–c and 7.e–k (southern Celtic Seas and western English Channel)		
	3	Whiting (<i>Merlangius merlangus</i>) in Subarea 4 and Division 7.c (North Sea and eastern English Channel)		
	4	Whiting (<i>Merlangius merlangus</i>) in Division 6.a (West of Scotland)		
Fishery Location		FAO 27 Selected stocks excluding Division VIIa		
Gear Type(s)		Demersal trawls		

Outcome of Assessment					
Overa	ll Outcomes:	Outcome	Clause(s) failed		
1	Whiting (Merlangius merlangus) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters)		NONE		
2	Whiting (Merlangius merlangus) in Divisions 7.b–c and 7.e–k (southern Celtic Seas and western English Channel)	EAH	Clause C1.2		
3	Whiting (Merlangius merlangus) in Subarea 4 and Division 7.d (North Sea and eastern English Channel)	PASS	NONE		
4	Whiting (Merlangius merlangus) in Division 6.a (West of Scotland)	FAIL	Clause C1.2		
Peer I	Review Evaluation				
Recommendations		APPROVE Whiting (Merlangius merlangus) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters) Whiting (Merlangius merlangus) in Subarea 4 and Division 7.d (North Sea and eastern English Channel) DO NOT APPROVE Whiting (Merlangius merlangus) in Divisions 7.b–c and 7.e–k (southern Celtic Seas and western English Channel) and Division 6.a (West of Scotland).			

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 an IFFO RS raw material. Whiting (*Merlangius merlangus*) does not appear as Endangered or Critically Endangered on the IUCN Red List, nor does it appear in the CITES appendices; therefore, the species is eligible for approval for use as IFFO-RS raw material.

Whiting is managed as many distinct stocks in EU waters, each of which are subject to an annual TAC and a variety of other management measures. It is beyond the scope of this assessment to examine all listed stocks in the assessment area listed (FAO 27). Four stocks form part of this assessment (Figure 1):

- 1) Whiting (*Merlangius merlangus*) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters)
- 2) Whiting (*Merlangius merlangus*) in Divisions 7.b-c and 7.e-k (southern Celtic Seas and western English Channel)
- 3) Whiting (*Merlangius merlangus*) in Subarea 4 and Division 7.d (North Sea and eastern English Channel)
- 4) Whiting (*Merlangius merlangus*) in Division 6.a (West of Scotland)

Fishery removals of the species in the fishery under assessment are included in the stock assessment process. The species therefore **PASSES** Clause C1.1.

Each stock assessed must pass both Clause C1.1 and C1.2 of the fisheries assessments:

For Whiting (*Merlangius merlangus*) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters) ICES assess that fishing pressure on the stock is below FMSY proxy. No other reference points have been defined for this stock. The stock **passes** Clause C1.2

For Whiting (*Merlangius merlangus*) in Divisions 7.b-c and 7.e-k (southern Celtic Seas and western English Channel) ICES assess that fishing pressure on the stock is above FMSY, but below Fpa and Flim while spawning-stock is below MSY Btrigger, Bpa, and Blim. The stock **fails** Clause C1.2.

For Whiting (*Merlangius merlangus*) in Subarea 4 and Division 7.d (North Sea and eastern English Channel) spawning-stock biomass (SSB) has fluctuated around MSY Btrigger since the mid-1980s and is just below it in 2019. The stock **passes** Clause C1.2

For Whiting (*Merlangius merlangus*) in Division 6.a (West of Scotland) spawning-stock biomass (SSB) has been increasing since 2010 but remains very low compared to historical estimates and is below Blim. The stock **fails** Clause C1.2

In order to be approved for use as IFFO-RS raw material each stock must pass both Clause C1.1 and C1.2; therefore:

Whiting (*Merlangius merlangus*) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters) and Subarea 4 and Division 7.d (North Sea and eastern English Channel) **pass** the assessment.

Whiting (*Merlangius merlangus*) in Divisions 7.b-c and 7.e-k (southern Celtic Seas and western English Channel) and In Division 6.a (West of Scotland) **fail** the assessment.

Peer Review Comments

It is important to confirm with client that they are able to segregate by-product from failed stocks from those stocks that pass.

Notes for On-site Auditor

Ensure IFFO-RS approved raw material is processed and labelled separately to un-approved raw material.

HOW TO COMPLETE THIS ASSESSMENT REPORT

This assessment template uses a modular approach to assessing fisheries against the IFFO RS standard.

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.

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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
Whiting	Merlangius merlangus	Whiting (<i>Merlangius merlangus</i>) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters)	N/A	EU/France	С
Whiting	Merlangius merlangus	Whiting (<i>Merlangius merlangus</i>) in Divisions 7.b–c and 7.e–k (southern Celtic Seas and western English Channel)	N/A	EU/France	С
Whiting	Merlangius merlangus	Whiting (<i>Merlangius merlangus</i>) in Subarea 4 and Division 7.d (North Sea and eastern English Channel)	N/A	EU/France	С

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Whiting	Merlangius	Whiting (Merlangius merlangus) in	N/A	EU/France	С
	merlangus	Division 6.a (West of Scotland)			

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.

Spec	ies Na	ame	Whiting	Merlangius me	rlangus			
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.							
	C1.2	assessment, point (or p	to have a biroxy), OR		mit reference ishery under	merlangus) in Subarea and Division 9.a (Bay o	8 f	
	C1.2	The species assessment, point (or p	to have a biroxy), OR	removals by the f	mit reference ishery under	merlangus) in Division	s k s	
	C1.2	assessment, point (or p	to have a biroxy), OR	removals by the f	mit reference ishery under	Whiting (Merlangia merlangus) in Subarea and Division 7.d (Nort Sea and eastern Englis Channel)	4 h	
Clayer	C1.2	assessment, point (or p assessment negligible.	to have a biroxy), OR		mit reference ishery under	merlangus) in Divisio 6.a (West of Scotland)		

Evidence

C1.1:

MAP:

This assessment covers French vessels landing whiting from selected areas:

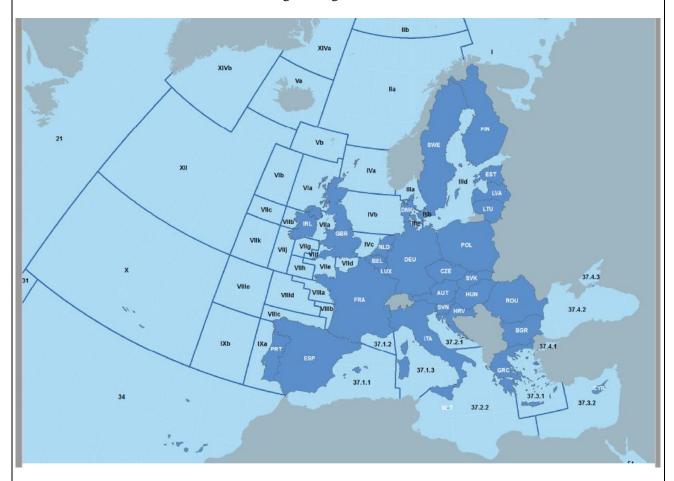


Figure 1 Names of Sub-areas and Divisions of FAO fishing areas 27 and 37 NORTH-EAST ATLANTIC R1

Whiting (Merlangius merlangus) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters):

Input data includes landings and discards. Discards and bycatch are estimated at 30% (average of 2016-2018). Length-based indicators are used in the assessment. This stock is classified by ICES as Category 5 (Stocks for which only landings data are available).

Whiting (Merlangius merlangus) in Divisions 7.b-c and 7.e-k (southern Celtic Seas and western English Channel):

Input data is derived from commercial landings, estimated discards, age composition of catches and one survey index (EVHOE-WIBTS-Q4 & IGFS-WIBTS-Q4 combined: IGFSEVHOE); maturity knife-edge at age 2; Lorenzen-based M (Lorenzen, 1996) derived from the mean weight-at-age.

Whiting (*Merlangius merlangus*) in Subarea 4 and Division 7.d (North Sea and eastern English Channel): Input data is derived from commercial catches (international catches, ages from catch sampling by métier, since 1978), two survey indices (IBTS Q1 & Q3; ages 0 to 5; since 1983); time-varying maturity estimated from NS IBTS Q1 data; time-varying natural mortalities from the SMS multispecies model.

Whiting (Merlangius merlangus) in Division 6.a (West of Scotland):

Input data is derived from commercial landings, estimated discards, age composition of catches; five survey indices (ScoGFS-WIBTS-Q1, ScoGFS-WIBTS-Q4, IGFS-WIBTS-Q4, UK-SCOWCGFS-Q1 and UK-SCOWCGFS-Q4); fixed maturity data from surveys; natural mortalities estimated from mean weight-at-age (Lorenzen's model (Lorenzen, 1996), using mean weight data from market sampling and discard observations).

Fishery removals of the species in the fishery under assessment are included in the stock assessment process therefore all stocks **pass** Clause C1.1.

C1.2 Whiting (Morlangius marlangus) in Subarea 8 and Division 0 a (Ray of

Whiting (Merlangius merlangus) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters):

ICES assess that fishing pressure on the stock is below FMSY proxy (Figure 2); no reference points for stock size have been defined. The stock **passes** Clause C1.2:

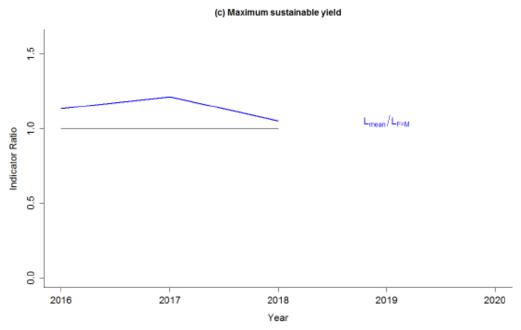


Figure 2: Whiting in Subarea 8 and Division 9.a. Index ratio Lmean/LF=M from the length-based indicator method (LBI; ICES, 2018a, 2019a) used for the evaluation of the exploitation status. The exploitation status is below the FMSY proxy when the index ratio value is higher than 1. R2

Whiting (Merlangius merlangus) in Divisions 7.b-c and 7.e-k (southern Celtic Seas and western English Channel):

ICES assess that fishing pressure on the stock is above FMSY, but below Fpa and Flim; the spawning-stock size is below MSY Btrigger, Bpa, and Blim. The stock **fails** Clause C1.2 (Figure 3):

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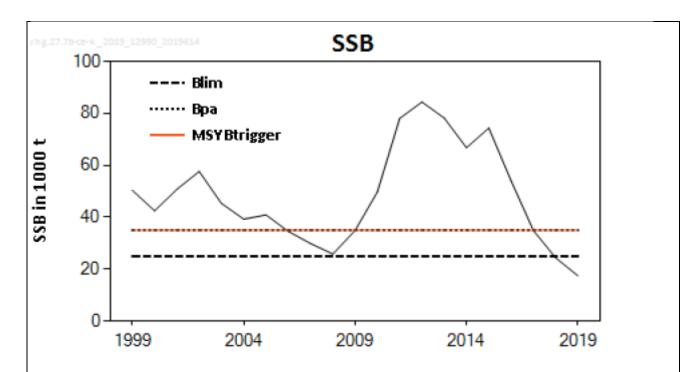


Figure 3: Whiting in divisions 7.b-c and 7.e-k. Summary of the stock assessment. R3

Whiting (Merlangius merlangus) in Subarea 4 and Division 7.d (North Sea and eastern English Channel):

Spawning-stock biomass (SSB) has fluctuated around MSY Btrigger since the mid-1980s and is just below it in 2019. The stock **passes** Clause C1.2 (Figure 4):

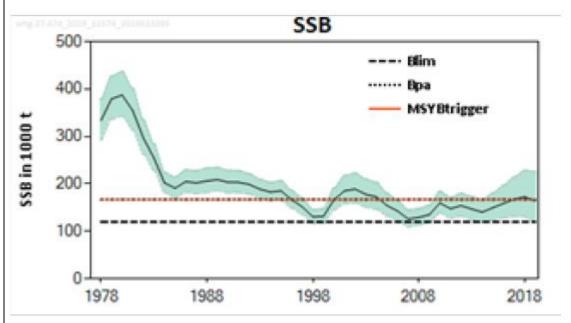


Figure 4: Whiting in Subarea 4 and Division 7.d. Summary of the stock assessment. Shaded areas (F, SSB) and error bars (R) indicate 95% confidence intervals. R4

Therefore, fishery removals are included in the stock assessment process and the stock does **PASS** C1.1.

Therefore, this stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point; the stock does **PASS** C1.2.

Whiting (Merlangius merlangus) in Division 6.a (West of Scotland):

The spawning-stock biomass (SSB) has been increasing since 2010 but remains very low compared to the historical estimates and is below Blim. The stock **fails** Clause C1.2 (Figure 5):

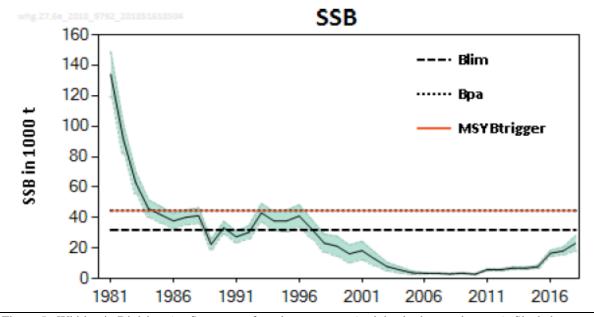


Figure 5: Whiting in Division 6.a. Summary of stock assessment (weights in thousand tonnes). Shaded areas correspond to two standard errors. R5

References:

R1 Map of the assessment area:

https://ec.europa.eu/fisheries/sites/fisheries/files/docs/body/fishing_areas_en.pdf

R2 ICES Advice Whiting (*Merlangius merlangus*) in Subarea 8 and Division 9.a (Bay of Biscay and Atlantic Iberian waters) http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2019/2019/whg.27.89a.pdf
R3 ICES Advice Whiting (*Merlangius merlangus*) in divisions 7.b-c and 7.e-k (southern Celtic Seas and

western English Channel)

http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2019/2019/whg.27.7b-ce-k.pdf

R4 ICES Advice Whiting (*Merlangius merlangus*) in Subarea 4 and Division 7.d (North Sea and eastern English Channel): http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2019/2019/whg.27.47d.pdf
R5 ICES Advice Whiting (*Merlangius merlangus*) Division 6.a (West of Scotland):

http://www.ices.dk/sites/pub/Publication%20Reports/Advice/2018/2018/whg.27.6a.pdf

Standard clauses 1.3.2.2