

MarinTrust Standard V2

By-product Fishery Assessment Report Template

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Table 1 Application details and summary of the assessment outcome

	Species: Mackerel (Scomber scombrus)		
Fishery Under Assessment	Geographical area:	FAO Area 27 North East Atlantic	
	Country of origin of the product:	Norway	
	Stock:	Mackerel in ICES subareas 1-8 and 14, and division 9.a (Northeast Atlantic and adjacent waters)	
Date	18 January 2022		
Report Code	Norway		
Assessor			
Country of origin of the product - PASS			
Country of origin of the product - FAIL			

Application details and summary of the assessment outcome							
Name: Norway Seafo	Name: Norway Seafood Federation						
Address:							
Country: Norway		Zip:					
Tel. No.:		Fax. No.:					
Email address:		Applicant Cod	Applicant Code:				
Key Contact:		Title:	Title:				
Certification Body De	tails						
Name of Certification	Body:	Global Trust C	Certification				
Assessor Peer Reviewer		Assessment Days	Initial/Surveillance/ Re-approval				
Geraldine Criquet Conor Donnelly		0.5	Surveillance 2				
Assessment Period	Assessment Period To January 2022						

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Scope Details	
Main Species	Mackerel (Scomber scombrus)
Stock Mackerel in ICES subareas 1-8 and 14, and division 9.a (Nor Atlantic and adjacent waters)	
Fishery Location	FAO Area 27 Northeast Atlantic Ocean
Management Authority (Country/ State)	European Union / Norway management authority
Gear Type(s)	Pelagic trawl, purse seine, and others
Peer Review Evaluation	Agree with recommendation
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination

If any 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 Marin Trust raw material. Mackerel (*Scomber scombrus*) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, mackerel is eligible for approval for use as Marin Trust by-product raw material.

There is no long-term management strategy for Northeast Atlantic mackerel agreed by all parties involved in the mackerel fishery. Reference points are defined for the stock, therefore it was assessed under category C.

Fishery removals are included in the stock assessment process, it PASSES Clause C1.1. The stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point, it PASSES Clause C1.2.

Therefore, mackerel in ICES subareas 1-8 and 14, and division 9.a (Northeast Atlantic and adjacent waters) is **APPROVED** for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.

Fishery Assessment Peer Review Comments

The stock is correctly assessed under category C. Catches are taken into account in the age-based stock assessment model and the most recent spawning-stock size index is above target and limit reference point. Therefore, mackerel in ICES subareas 1-8 and 14, and division 9.a (Northeast Atlantic and adjacent waters) should be approved for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.

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 an MARINTRUST raw material.

IUCN Redlist 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 ¹	CITES Appendix 1 ²
Mackerel	Scomber scombrus	Mackerel in ICES subareas 1-8 and 14, and division 9.a (Northeast Atlantic and adjacent waters)	European Union / Norway	С	LC	No

¹ <u>https://www.iucnredlist.org/</u>

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

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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.

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.

Spe	ecies	Name	Mackerel (Scomber scombrus)		
C1	Catego	ory C Stock Sta	atus - Minimum Requirements		
CI	C1.1	Fishery remo	vals of the species in the fishery under assessment are included in the stock	Yes	
	assessment process, OR are considered by scientific authorities to be negligible.				
	C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the		Yes		
	limit reference point (or proxy), OR removals by the fishery under assessment are				
	considered by scientific authorities to be negligible.				
			Clause outcome:	PASS	
C1.1 F	isherv	removals of th	ne species in the fishery under assessment are included in the stock assessme	nt process. OR are	

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.

The stock assessment type is an age-based analytical model (SAM) that uses catches in the model and the forecast. Catches are presented in Figure 1.

Therefore, fishery removals of the stock, including from the fishery under assessment, are included in the stock assessment process, **it PASSES Clause C1.1**

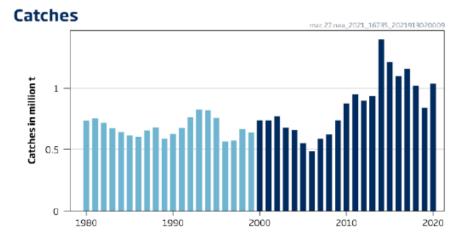
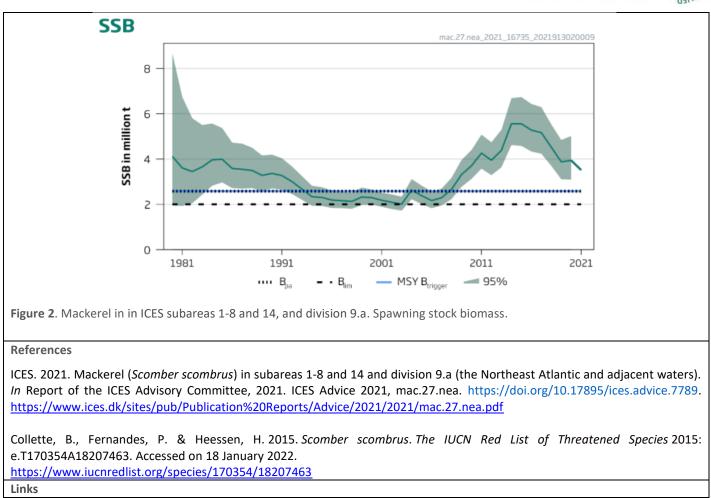


Figure 1. Mackerel in in ICES subareas 1-8 and 14, and division 9.a. Long-term trends in catches; the paler shaded catches prior to 2000 have been down-weighted in the assessment because of the considerable underreporting suspected to have taken place in this period.

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.

The spawning-stock size is above MSY $B_{trigger}$, B_{pa} and B_{lim} (Figure 2). Therefore, the stock is considered, in its most recent stock assessment, to have a biomass above the limit reference point, **C1.2** is met.





LIIKS	
MARINTRUST Standard clause	1.3.2.2
FAO CCRF	7.5.3
GSSI	D.3.04, D5.01



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.

L	Species Name			
	Productivity Attribute	Value	Score	
	Average age at maturity (years)			
	Average maximum age (years)			
	Fecundity (eggs/spawning)			
	Average maximum size (cm)			
	Average size at maturity (cm)			
	Reproductive strategy			
	Mean trophic level			
Average Productivity Score				
	Susceptibility Attribute	Value	Score	
	Overlap of adult species range with fishery			
	Distribution			
	Habitat			
	Depth range			
	Selectivity			
	Post-capture mortality			
	Average Susceptibility Score			
		PSA Risk Rating (From Table D3)		
		Compliance rating		



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 <25% of stock occurs in the area fished	
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		
	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.

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