



MarinTrust Standard V2

By-product Fishery Assessment Report Template

MarinTrust Programme

Unit C, Printworks

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Table 1 Application details and summary of the assessment outcome

| | | |
|---|-----------------------------------|---|
| Fishery Under Assessment | Species: | Dover sole (<i>Solea solea</i>) |
| | Geographical area: | FAO Area 27 North East Atlantic |
| | Country of origin of the product: | France |
| | Stock: | Sole in Divisions 7.b and 7.c (West of Ireland) |
| Date | 9 November 2021 | |
| Report Code | BP 230 | |
| Assessor | Geraldine Criquet | |
| Country of origin of the product - PASS | France | |
| Country of origin of the product - FAIL | NA | |

| Application details and summary of the assessment outcome | | | |
|---|------------------|----------------------------|--------------------------------------|
| Name: Bioceval SAS | | | |
| Address: | | | |
| Country: France | | 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 |
| Geraldine Criquet | Virginia Polonio | 0.5 | Surveillance 2 |
| Assessment Period | To November 2021 | | |

| Scope Details | |
|---------------------------------------|--|
| Main Species | Dover sole (<i>Solea solea</i>) |
| Stock | Sole in Divisions 7.b and 7.c (West of Ireland) |
| Fishery Location | FAO Area 27 Northeast Atlantic Ocean |
| Management Authority (Country/ State) | European Union / France Direction des Pêches Maritimes et de l'Aquaculture |
| Gear Type(s) | Trawl |
| Peer Review Evaluation | Agrees with assessor's determination |
| Recommendation | APPROVED |

Table 2. Assessment Determination

| Assessment Determination |
|---|
| <p>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. Sole (<i>Solea solea</i>) is neither listed as Endangered or Critically Endangered on IUCN’s Red List, nor listed in CITES appendices; therefore, Dover sole is eligible for approval for use as Marin Trust by-product raw material.</p> <p>The West of Ireland Dover sole is managed through a TAC. However, reference points are undefined for the stock, therefore it was assessed under category D.</p> <p>A PSA was conducted. With an average productivity score of 1.57 and an average susceptibility score of 2.5, it PASSES Clause D1.</p> <p>Therefore, Dover sole in ICES in Divisions 7.b and 7.c (West of Ireland) is APPROVED for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.</p> |
| Fishery Assessment Peer Review Comments |
| <p>The stock has been identified correctly as there are no reference points defined for this stock it has been assessed under category D.</p> <p>Following the average susceptibility and productivity the stock has passed the PSA and it is recommended for the approval.</p> |
| 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 |
|-------------|--------------------|---|--|----------|-------------------------------------|-------------------------------|
| Dover sole | <i>Solea solea</i> | Sole in ICES in Divisions 7.b and 7.c (West of Ireland) | European Union / France Direction des Pêches Maritimes et de l'Aquaculture | D | LC | No |

¹ <https://www.iucnredlist.org/>

² <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

| | | | |
|-----------|---|--|--------------|
| D1 | Species Name | Dover sole, <i>Solea solea</i> | |
| | Productivity Attribute | Value | Score |
| | Average age at maturity (years) | 3-5 | 2 |
| | Average maximum age (years) | 7.9 | 1 |
| | Fecundity (eggs/spawning) | 100,000-150,000 | 1 |
| | Average maximum size (cm) | 70 | 2 |
| | Average size at maturity (cm) | 30.3 | 2 |
| | Reproductive strategy | Non-guarders: open water/substratum egg scatterers | 1 |
| | Mean trophic level | 3.2 | 2 |
| | Average Productivity Score | | 1.57 |
| | Susceptibility Attribute | Value | Score |
| | Overlap of adult species range with fishery | Not scored | NA |
| | Distribution | Limited range in the region | 2 |
| | Habitat | Demersal | 3 |
| | Depth range | 10-60 m | 3 |
| | Selectivity | Species 1 or 2 times mesh size | 2 |
| | Post-capture mortality | Most dead | 3 |
| | Average Susceptibility Score | | 2.5 |
| | PSA Risk Rating (From Table D3) | | PASS |
| | Compliance rating | | PASS |

Fishbase – *Solea solea*

<https://www.fishbase.de/summary/Solea-solea.html>

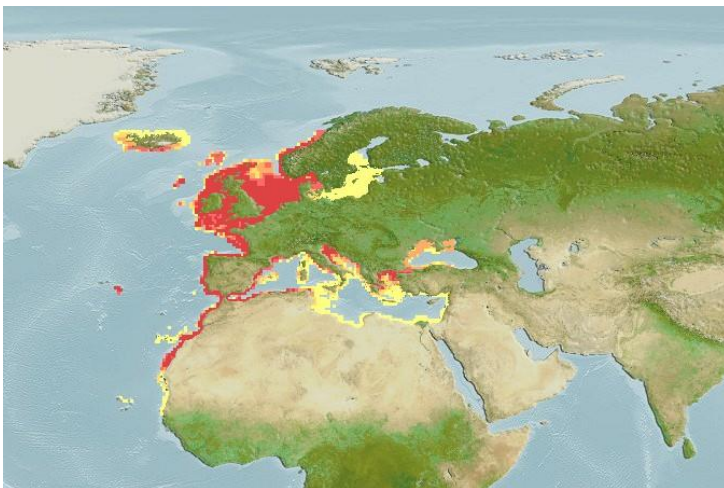


Figure 1. AquaMaps (2019, October). Computer generated distribution maps for *Solea solea* (Common sole), with modelled year 2050 native range map based on IPCC RCP8.5 emissions scenario. Retrieved from <https://www.aquamaps.org>.

Monroe, T., Keskin, Ç., Costa, M. & Rijnsdorp, A.D. 2015. *Solea solea* (errata version published in 2016). *The IUCN Red List of Threatened Species* 2015: e.T198739A87698320. Downloaded on 08 November 2021.

Standard clauses 1.3.2.2

a risk-assessment style approach must be taken.

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 |