



MarinTrust Draft V3 4 Whole Fish Fishery Assessment 5 Criteria, methodology and 6 guidance document 7 8 9 10 11 Marine Ingredients Certifications Ltd 12 Unit C, Printworks 13

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20 1. About MarinTrust

21 Vision

- 22 All marine ingredients produced globally will be sourced from responsibly sourced fisheries
- 23 products and produced in a safe manner.

24 Mission

- 25 To enable marine ingredient producers to demonstrate to all stakeholders their commitment
- 26 to responsible practices in the areas of raw material procurement and food/feed safety.

27 MarinTrust Global Standard

The MarinTrust Global Standard (MarinTrust Standard) and Certification Programme for the Responsible Supply of Fishmeal and Fish Oil was developed with international consultation with stakeholders and meets global best practice guidelines for certification and ecolabelling programs.

- The MarinTrust Global Standard for responsible supply (MarinTrust Standard) has the followingcore objectives:
- To ensure no Illegal, Unreported and Unregulated fishery raw materials are used.
- To ensure pure and safe products are produced under a recognised Quality Management
 System, thereby demonstrating freedom from potentially unsafe and illegal materials.
 - To ensure full traceability throughout production and the supply chain.
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³⁹ 2. Whole Fish Fishery Assessment Methodology

- 40 Whole fish source fisheries are assessed using a modular assessment process, which awards a pass or fail
- 41 rating under a number of sections. The precise structure of the assessment report is determined by the
- 42 nature of the catch in the fishery (species categorisation), utilising different modules for 'target' and 'non-
- 43 target' species, and for those stocks with or without stock-specific management regimes.

44 Assessment Process

45 Scoring and Assessment Determination

- 46 The assessor shall score all applicable clauses (i.e. within each module and for each relevant species
- 47 category) using a binary Pass/Fail score.
- Throughout the assessment methodology, there are main clauses and sub-clauses. Sub-clauses (whereapplicable) support the assessor in reaching a conclusion for the main clause.
- 50 Where there are sub-clauses the main clauses (e.g. M1.1.) are not directly assessed, they are awarded a
- pass or fail determination based on the fishery under assessment meeting the sub-clauses (E.g. M1.1.1
- 52 and M1.1.2).
- 53 The assessor shall document if each sub-clause is met or not met in the template.
- 54 All relevant main clauses and sub-clauses should be completed, regardless of a possible fail score/rating.
- 55 To achieve a pass in a main clause, the fishery/species must meet **the majority** of the sub-clauses.
- 56 Should the majority of sub-classes Fail, then the main clause shall Fail.
- 57 The clauses should be completed by providing sufficient evidence to justify awarding each clause a pass58 or fail rating.
- 59 The assessor should provide a short summary for each main clause stating if the fishery passes or fails
- 60 the clause and identifying what, if anything, is missing and to what extent this is relevant to the fishery
- approval. (i.e. it could be more or less impacting based on the fishery circumstance and its
- 62 management).
- 63
- Once the assessor has completed the assessment (i.e. all relevant clauses are assessed), the
 assessor shall reach a Final Assessment Determination to either approve or not approve the
 fishery under assessment.
- 67 The assessor and CB shall use Table 1 to support the assessment determination:
- 68
- 69



71 Table 1. Guidance on Assessment Determination.

Assessment Determination	Guidance
Approved	The whole fish under assessment is Approved
	for use by a MarinTrust certified site.
Not Approved	The whole fish under assessment is Not
	Approved for use by a MarinTrust certified
	site.

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73 Example scoring scenarios

- 74 To add.
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3. Guidance to the Whole Fish Fishery Assessment Methodology

78 The purpose of this document is to provide guidance to the CBs to help interpret the whole fish fishery79 assessment methodology, and how to complete the fisheries assessment template. It aims to:

- 80 1. Clarify the requirements of each assessment section.
- 81 2. Recommend determinations based on possible fishery circumstances.
- 82 3. Improve consistency of assessments through examples and definitions.
- 83

84 It is important to note that the guidance contained within this document is not binding; the approval
85 decision for the whole fish fishery rests with the certification body and their fishery assessment team.

- 86 Fishery management has as many variations in approach as there are fisheries, and raw material
- 87 sourcing adds additional challenges. This document is not intended to cover all eventualities but rather
- 88 provide guidance for assessors. It is intended to remain in development and will be updated as
- 89 additional by-products are assessed, and additional scenarios encountered.
- 90 Note that the format of this document should not be used as a template for conducting the whole fish91 fishery assessment.
- 92 Fishery assessors shall use the whole fish fishery assessment template and report the whole fish93 fishery assessment outcomes.
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97 4. Evidence and References

- 98 The fishery assessor (within evidence section of the whole fish fishery assessment template) shall
- 99 provide enough information to justify the pass or fail score or level of risk being awarded for each clause.

100 A specific response to each sub-clause should be provided that demonstrates the level of conformity of 101 the fishery under assessment based on the evidence available. The response should be written concisely 102 and provide reference to the available evidence location (e.g., web references). Where no information or 103 evidence is available for a sub-clause or part of a sub-clause this should be stated.

- 104 Information sources can include:
- Stock assessments
- Catch composition data
- 107 IUCN Red List
- 108 Management measures
- Observer reports, etc.
- 110 References need to be provided under each clause to show the source of all information used.

111 ALL REFERENCES should be documented

- 112 Evidence provided in the assessment should be from reliable sources, such as official government
- 113 websites, internationally recognised scientific organisations, and NGOs.
- 114 The reference should include the author, the title of the report, the page number and a hyperlink to the 115 internet source (If applicable).
- The assessor should make a note if information was not publicly available and was made available onrequest

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- 119 The Certification Body assessment team will provide in the evidence section enough information to justify 120 the pass or fail rating being awarded for each clause. Information should always be from reliable sources, 121 preferably recognised scientific or governmental organisations or NGOs. Fisher information can also be 122 used where it can be objectively verified. References will need to be provided under each clause to show 123 the source of all information used. Fisheries must achieve a pass rating in all applicable sections to achieve 124 approval overall.
- 125 Where there is an information or evidence deficiency, the fishery assessment team will have two options.
- **a)** Firstly, the client can be approached directly to provide answers or additional evidence.
- 127
- b) Secondly, in some cases additional information or evidence can be sought by the on-site auditorsduring the factory assessment.
- 130 If there is sufficient information to award the fishery a pass rating under every clause, the fishery should
- be provisionally approved, and ratings updated when the additional information becomes available.

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- 132 Where information deficiency prevents the assessment of a clause, or leads to an implied fail rating, the
- 133 fishery should not be approved until additional information is made available to the assessment team.
- 134

135 5. How to complete the assessment template

- 136 The whole fish assessment methodology follows a modular approach for the fishery under assessment.
- 137 The whole fish assessment template follows the whole fish fishery assessment methodology, providing
- sections and tables to record the assessment details, outcomes of the assessment, supporting evidenceand references for each step of the assessment.
- 140
- 141 Fishery assessors shall follow this process for completing the template:
- 142 For ALL ASSESSMENTS, complete Tables 1, 2 and 3: the scope, applicant, CB and assessment
- 143 determination.
- Table 3 shall only be completed once the assessor has finished the assessment (i.e. it is the last sectioncompleted).
- Information to complete Tables 1 and 2 are provided by the applicant in the MarinTrust Application form,or is information that the CB provides.
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- For all assessments, the assessor shall follow the following process when completing the whole fish fisheryassessment (see Figure 1))
- Complete the Species Characterisation table,(table 6 in template) to determine which categories of
 species are present in the fishery.
- 153 2. Complete clauses M1, M2: Management.
- 1543. Complete relevant species categorisation assessments
 - a. IF THERE ARE CATEGORY A SPECIES IN THE FISHERY: Complete clauses A1, A2, A3, A4 for **each** Category A species.
 - i. If a Category A species fails, the species shall be re-assessed as Category B species.
 - b. IF THERE ARE CATEGORY B SPECIES IN THE FISHERY: Complete the Section B risk assessment for **each** Category B species, completing Table B1.
- 160c. IF THERE ARE CATEGORY C SPECIES IN THE FISHERY: Complete clause C1 for **each** Category161C species.
 - If a Category C species fails, the species shall be re-assessed as Category D species, EXCEPT if there is evidence that the stock is currently below the limit reference point.
 - d. IF THERE ARE CATEGORY D SPECIES IN THE FISHERY: Complete Section D, completing Table D1 and Table D2.

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- 167 4. Complete clauses E1, E2, E3: Ecosystem Impacts.
- If there is no species in that Category, the Category can be deleted from the template. 168
- 169 If there is more than one (1) species in a category, the assessor shall complete the assessment for each species. Duplicating the relevant tables in the assessment template.
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- 173 Figure 1. Illustration of modular assessment process.

6. Information required for all assessments 174

- Tables 1, 2 and 3 in the whole fish fishery assessment report template are compulsory and must be 175 completed in full for all assessments. 176
- 177 Most information to complete these tables are provided by the applicant in the Application Form or are information held by the CB (such as assessor and peer reviewer names). 178
- 179 Whole fish fishery report name and report code is generated by MarinTrust secretariat and provided to 180 the CB.
- 181 Table 3 shall be completed only when the assessor concludes their assessment. It is the last table to be completed in the template. 182

Guidance to support completing Table 1: Whole Fish Fishery Assessment 183

Scope 184

Required information	Guidance
Fishery under assessment	

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Main Species (Common name, Latin name)	Common and Latin name(s) of the Category A and Category species (main species) covered by the assessment.
Fishery Location	Marine region where the fishery is conducted, e.g. ICES area, national EEZ, FAO area, specific coastline.
Management Authority (Country/State)	The country or state/province with primary responsibility for managing the fishery. In assessments where there are multiple relevant management authorities, a separate M section should be completed for each.
Gear type(s)	Gear type(s) used in the fishery under assessment. Where there are multiple gear types, a separate section E shall be completed for each gear type.

186 Guidance to support completing Table 2: Application and Assessment

187 **Details**

Required information	Guidance
Applicant company	There can be more than one applicant for each
	whole fish under assessment.
Applicant country	This is the country that the applicant sites are
	situated.
	There can be more than one applicant country
	for each whole fish under assessment.
Name of Certification Body	Name of MarinTrust accredited CB completing
	this assessment.
Fishery Assessor	Name of fishery assessor completing this
	assessment.
Peer Reviewer	Name of the CB internal peer reviewer.
Report code	MarinTrust issued report code for this by-
	product.
Assessment date (mm/yyyy)	Month and Year that this assessment was
· · · · · · · · · · · · · · · · · · ·	completed

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189 Guidance to support completing Table 3: Assessment Determination

190 Table 3 is completed at the end of the assessment only.

Required information	Guidance
Approval Validity	Each whole fish assessment is valid for 12 months.
	The CB must complete the Approval Validity only if the determination is to Approve the whole fish fishery.

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	The Approval Validity shall be from the month and year the assessment is completed and end 12 months (1 year) later.
Assessment determination	 The CB final determination, the whole fish is either Approved (and Approved, source with caution) or Not Approved. Include additional detail on any areas in which the fishery was awarded a fail rating *see guidance in Section 3 to support assessment determination. Also include in assessment determination summary: a statement summary on each of: Fishery management infrastructure Catch composition overview Stock assessment efforts Other research Control and enforcement And other relevant impacts of the fishery Include additional detail on any areas in which the fishery was awarded a fail rating.
Peer reviewer determination	The CB peer reviewer determination, the whole fish is either Approved/Approved, source with caution/Not Approved. Any additional feedback from the peer reviewer on the accuracy of the assessment decision, the ratings throughout the assessment, and the adequacy of the evidence supporting these.
Notes for on-site auditor	 Under some circumstances, there may be areas of the fishery assessment which need to be confirmed during the on-site audit. These could include: Ensure that all landings are monitored and recorded by government officials Ensure that bycatch is monitored and catch composition is accurate Ensure that vessels details are recorded at landing. Ensure flag state(s) are known Ensure that fishing gear(s) and mesh sizes are known. This section is for recording any such concerns or requests for the on-site assessor



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¹⁹⁴ 7. Species Categorisation

The assessor shall complete **Table 6 Species Categorisation Table** as fully as the available information
 permits, using the most relevant information available to the assessor.

197 Catch composition details may be provided by the applicant.

In cases where this information is not provided by the applicant the information can be sourced from the relevant government catch statistics when available on-line. Marine Stewardship Council (MSC) reports and other fishery data sources can be used and referenced in the 'Species categorisation reference' section.

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203 Guidance to support completing Table 5 Species Categorisation Table

Required information	Guidance
Species name (Common and Latin name)	All species should be listed
Stock	Stock name, location. Differentiate when there
	are multiple biological or management stocks of
	one species captured by the fishery
IUCN Red List Category	Add categorisation. https://www.iucnredlist.org/
CITES Appendix I or II	Add if listed. Species+ (speciesplus.net)
	n/a if not listed.
% of landings	The '% of landings' column can include estimated
	ranges if there is uncertainty of variability in the
	catch composition
Management	'Yes' or 'No': depending on whether the species is
	subjected to a stock-specific management regime,
	as described above.
Category	Category A, B, C or D. depending on information
	in previous columns and guidance

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205 Endangered species

- 206 Whole fish species **cannot** be approved for use as a MarinTrust raw material if the species:
 - Is a marine mammal, reptile, amphibian or bird, or
- From fisheries that use dynamiting, poisoning and other comparable destructive fishing practices,
 or
 - Appear in CITES Appendix 1 or 2, or
 - Are categorised as Endangered or Critically Endangered on the IUCN Red List, through a recent stock assessment or other evidence.
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214 **CITES Species**

- 215 The assessor shall include if the species is listed on CITES Appendix 1 or 2 using CITES database: <u>Species+</u>
- 216 (speciesplus.net)
- 217 Whole fish from a species listed in Appendix 1 or Appendix 2 of CITES shall immediately fail the
- assessment.
- 219 If the species is not on CITES Appendix 1 or Appendix 2, it passes this part of the whole fish assessment.

220 IUCN Red list Category

- The assessor shall include the Red List categorisation in the Table. If the IUCN assessment was completed
 more than 5 years prior to the time of the assessment the assessor shall refer to the most recent stock
 assessment, ICES advice, current national legislation.
- 225 The fishery assessor shall review if the species is listed on the IUCN Red List website 226 <u>https://www.iucnredlist.org/</u> and which category.
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- 228 If the species has been evaluated **within the last 5 years** (less than or equal to 5 years) and listed by
- 229 IUCN (the International Union for Conservation of Nature) under the Red List for the following categories
- 230 it shall immediately fail the assessment;
 - EXTINCT (E) AND EXTINCT IN THE WILD (EW)
 - CRITICALLY ENDANGERED (CR).
- endangered (en).

234 If the species has been evaluated within the last 5 years (less than or equal to 5 years) and listed by
235 IUCN under the Red List for the following categories it is acceptable.

- VULNERABLE (VU).
- NEAR THREATENED (NT).
- LEAST CONCERN (LC).
- DATA DEFICIENT (DD)

240 If the species listed on the IUCN Red List has **not been evaluated within the last 5 years**, i.e. evaluation

was more than 5 years, then the fishery assessor should check if there is a stock assessment for the

species. For whole fish fishery assessments, the assessor can assess the species in relevant species

243 categories (A, B, C or D)

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245 Species Category: Target species and non-target species: The 95% Rule

- Any species representing more than 0.1% of the annual catch should be listed in Table 6, along with anestimate of the proportion of the catch each species represents (% landings)
- For the purposes of the MarinTrust fishery assessment, 'target' and 'non-target' species are defined bytheir prevalence in the catch, by weight. The assessor must review the application form and any available
- 250 landings/catch data from the fishery to determine which species are considered 'target' species in the



- fishery, and the combined weight of these must be at least 95% of the annual catch. The remaining 5% canbe made up of 'non-target' species.
- The assessor shall provide all references used to clearly show evidence for species categorisation determination.
- ETP species are considered separately (under Ecosystem Impacts, E1), irrespective of their frequency of occurrence in the catch.
- 257 Species which make up less than 0.1% of landings do not need to be listed.
- 258 The table in template should be extended if more space is needed.
- 259 Discarded species should be included when known.
- 260
- 261 The species should then be divided into Type 1 (Target species) and Type 2 (Non-target species) 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 'non-target' 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 at least 95% of the total annual catch.
- 267 Type 2 Species may represent a maximum of 5% of the annual catch.
- 268 Figure 2 illustrates some scenarios on how catch can be categorised using the '95% rule'.
- Species are further categorised by the presence or absence of a species-specific management regime inplace:
- 271 The distinction between 'target' and 'non-target' species is made to enable the assessment to consider the
- impact of the fishery on all the species caught regularly, without requiring a full assessment be conducted
- 273 for each. Thus 'target' species are subjected to a more detailed assessment, while 'non-target' species are
- 274 considered more briefly.
- 275 TYPE 1 SPECIES (Representing 95% of the catch or more)
- 276 **Category A:** Species-specific management regime in place.
- 277 **Category B:** No species-specific management regime in place.
- 278 TYPE 2 SPECIES (Representing 5% OF THE CATCH OR LESS)
- 279 **Category C:** Species-specific management regime in place.
- 280 **Category D:** No species-specific management regime in place.
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282 In table 6 species categorisation table, 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.

After allocating each species to a Species Category, the assessor shall complete the relevant Categoryassessment for each species.

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- 291 Figure 2. Decision tree to support the species categorisation for Whole fish fishery assessment
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301 8. MANAGEMENT

Management module (M1, M2) relates to the general management regime applied to the fishery
under assessment. M1 and M2 are structured into main clauses (e.g. M1.1) and sub-clauses (e.g.
M1.1.1, M1.1.2).

The assessor shall assess each sub-clause, determining if the clause if met or not met. If the majority of sub-clauses are met, the assessor shall award the main clause is then given a Pass rating, if the

- 307 majority of sub-classes are not met, the assessor shall award a Fail rating.
- 308 Evidence must be provided to justify the determinations. References shall be included in the 309 reporting template.

Main clause / Sub-clause Guidance M1.1 There is an organisation responsible for managing the fishery. M1.1.1 The management Assessors should state who the main management organisation(s) and administration is/are and where it/they were identifiable (e.g. via websites and/or organisations within the official published information). fishery are clearly identified. State if there is evidence of additional departments/organisations that have roles in the management system. Where the stock is transboundary, document the States that conduct fisheries on the same stock, where these are identified and the RFMO/forum under which they co-operate/co-ordinate. M1.1.2 The functions Assessors should identify the basic functions and responsibilities and responsibilities of with the management system (and reference websites or available the management documents) including: organisations include Overall management responsibility including decision the overall regulation, making, administration administration, science Licensing and data collection and Science and data collection that are known and available • enforcement roles and Enforcement agencies/departments responsible for • monitoring and surveillance are documented and publicly available. International agencies (if relevant) such as RFMO's. M1.1.3 Fishers have Assessors should list websites or other publicly available documents access to information that demonstrate some basic evidence of training such as dissemination of information to fishers. and/or training materials through This could include: nationally recognised Posters, guides/manuals, workshops and other training materials to organisations good practice, including advisory information on any licensing or legal requirements, fishing techniques, conservation measures etc.

310 M1 Management Framework – Minimum Requirements

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M1.2 Fishery management organisations are legally empowered to take management actions.	
M1.2.1 There are legal instruments in place to give authority to the management organisation(s) which can include policies, regulations, acts or other legal mechanisms.	 Assessors should identify the legal instrument(s) - Acts, Regulations or Policies - and list if they: Are currently enforceable within the governance/administrative and legal framework of the Country/State/Region Include by definition or jurisdiction (or other implicit reference) the region where the fishery operates Reference the entity(ies) that has/have been identified as responsible for managing the fishery.
M1.2.2 There is a system for managing fishery entry such as through licensing or permitting.	 For Type 1 (target) species (Category A and Category B species), provide evidence of: a system that controls or limits entry to the fishery or where entry is not limited, there is some other legally enforceable management mechanism that controls fishing effort. Advisory: Economic viability cannot be the sole system for controlling fishing effort.
M1.2.3 The management system has a mechanism in place for the resolution of legal disputes (e.g. to deal with transboundary species issues).	 Assessors should consider any evidence of historical disputes in the fisheries managed by the authority and how they were managed. Assessors should also provide evidence of management measures within any RFMOs. The assessment should focus on the impact of disputes on the effectiveness of the management system on sustaining fishery resources. Provide evidence that: Management systems should have mechanisms (continual fishery involvement, effective dialogue, transparent processes and decision making) that work to avoid disputes. Whether The management system is subject to, and bound by, the national legal system (e.g., national courts) which can be accessed in the event of legal disputes. That (as relevant) transboundary and high seas stocks should have trans-national agreements or RFMO's that can serve to resolve disputes. Advisory: The most common dispute relates to access and the sharing of fishing opportunities (rights and quotas). Whilst all legal disputes relate to management organisation(s), to categorise for assessment purposes, they include: Disputes between different management systems from nations that fish on the same stock (because it is transboundary, straddling, migratory, or has a complex stock structure).



	• Disputes between different fishery segments e.g. by gear
	 (pelagic trawl/long-line) or scale (industrial/artisanal/offshore/inshore). Disputes between single fishing entities and the
	management organisation (e.g., where sanctions are contested).
	Examples of dispute resolution by the fishery management authority in other fisheries could be used as evidence.
M1.2.4 The legal	Assessors should provide evidence that the management system
framework has fishery	has sufficient legal basis to amend existing, and implement new,
specific regulations and	rules so as to adapt to changes in stock levels, fishery practice or
rules and can	ecosystem factors in a timely and effective manner.
amend/adapt these as required (e.g. quota	Examples would include:
setting).	 Mechanisms that implement rules for annual/season
8,	quotas.
	• Mechanisms that implement rules that restrict effort, modify
	or moderate it, and can close fisheries.
M1.2.5 There is evidence	Where there is evidence of people dependant on fishing for food or
of legal rights of people dependant on fishing for	livelihood such as indigenous and artisanal fisheries, assessors should provide evidence that the management system considers the
food or livelihood.	rights of, and commitments to, these citizens including access to
	information and protecting any established customary rights and/or
	their long-term interests in sustainably accessing the resource.
	Where we such indigenous or articonal ficharies are apparent the
	Where no such indigenous or artisanal fisheries are apparent, the fishery management system should be able to identify for all
	fisheries and segments that catch fish (e.g. commercial,
	recreational, incidental etc.).
	tion responsible for collecting data and (scientifically) assessing
the fishery.	Assessors should identify the main exigntific examination (a) and
M1.3.1 The organisation(s)	Assessors should identify the main scientific organisation (s) and where it is identifiable (e.g. via websites and/or official published
responsible for	information).
collecting data and	
assessing the fishery is	
clearly identified.	
M1.3.2 Data relevant to	Assessors should evidence that data collection is appropriate to the
the management of the	assessments undertaken in the management system, and that data
fishery is collected	is consistently collected for management purposes and based on a
consistently and maintained.	documented approach or set of rules/guides.
	Data collection can include:
	 Fishery dependent and fishery independent data
	Fishery dependent and fishery independent dataData collected at port from fish landings



	 Data collected from fishing activity recorded by fishers (e.g. fishing logs) Data from fishery observers Fish landings by volume reported in consistent units with known levels of accuracy. Fishing activity expressed in units that are useful for management purposes (e.g., fishing effort). Stock survey activities that are used to estimate fish stock size, abundance, distribution, structure, catch composition, fishing mortality. Biological and other life-cycle data (including reproductive status) concerning the health of the stock, natural mortality and ecosystem interactions.
M1.3.3 Evaluation of stock size is conducted through formal assessment approaches with fishery related scientific information documented and publicly available.	 Assessors should provide evidence that within the management system there is: a formal, consistent, and recognised approach to assessment of stock size is used. (e.g., EU Regulation 2017/2014 the establishment of a Union framework for the collection, management and use of data in the fisheries sector and support for scientific advice regarding the common fisheries policy. Science based information regarding the state of the stock and fishery activity is publicly available
M1.3.4 The management system receives scientific advice regarding stock, non- target species and ecosystem status.	 Assessors should provide evidence that formal advice is provided on a regular (e.g., annually), timely basis to coincide with the setting of fishing opportunities, fishing measures/restrictions and other input/output rules that are implemented to effectively regulate the fishery in a sustainable way. Ecosystem status can be considered within context of stock assessment through including data such as: Information on the effects of large-scale climate processes (e.g. El Nino) or climate change. Information on species habitats and the impacts of fishing on habitats. predator-prey and other studies that may provide values for important stock assessment parameters like mortality. time series or physical or environmental data, information.
M1.3.5 Scientific advice is independent from the management organisations and transparent in its formulation through a clearly defined process. M1.4 The fishery manager	Assessors should provide evidence that Scientific advice is objective and based on the outcome of its analysis of stock and ecosystem health, and not be subject to (political) influence. Science and data collection should be known and accessible.
and a precautionary appr	



M1.4.1 A policy or long- term management objective for sustainable harvesting based on the best scientific evidence and a precautionary approach is publicly available and implemented for the fishery	Assessors should provide evidence that the policy is described within the management system, either separately or explicit within regulations or other documents. Management objectives may be general for all fisheries but should use best scientific information and the precautionary approach. Reference to a precautionary approach is often within high level objectives that are generic across all fisheries, and while the assessor should provide a link to this, further evidence of implementation in the fishery under MT evaluation should also be presented. Advisory: The precautionary approach shall be interpreted to mean being cautious when information is uncertain, unreliable or
	inadequate and that the absence of adequate scientific information shall not be used as a reason for postponing or failing to take conservation and management measures (The UN Fish Stocks Agreement, 1995).
M1.4.2 There is evidence of adaptive management, and it is based on sustainable exploitation.	The assessor should evaluate to what extent the operational objectives documented in A2 (e.g. specific targets, limit reference points) are consistent with the harvest strategy (A3) and adapted as necessary to meet the overall objectives of fishery management. Advisory: Adaptive management could include for example: annual quota setting based on best scientific evidence, move-on rules, mid-season closed areas or early closure of fishery.
-	ined decision-making process which is transparent, with
processes and results mad	
M1.5.1 There is participatory engagement through which fishery stakeholders and other stakeholders can access,	 Assessors should provide evidence that management organisation(s) provide fishery stakeholders access to: The evaluation and outcome of scientific stock assessments Other related evaluations relevant to management decisions
provide information, consult with, and respond to, the management systems' decision-making process.	 Assessors should also provide evidence/recent examples of: The management system consultation processes/mechanism with fishery stakeholders prior to adoption of management decisions Consultations with relevant non-governmental organisations, such as fishing industry representatives or environmental NGOs, or similar examples of participatory engagement with fishery stakeholder and other stakeholders engaged with decision-making processes.



	Advisory: A defined decision-making process may include a process that is documented in statutes, or some other way described. Evidence of consistent use and recognition by stakeholders also supports the evidence.
M1.5.2 The decision- making process is transparent, with results made publicly available.	Assessors should evaluate that management organisation(s) published information on the decision-making process and on decisions made on government websites or otherwise make them available via representative organisations or at a minimum on request, in a timely fashion.
M1.5.3 The fishery management system is subject to periodic internal or external review to validate the decision-making process, outcomes and scientific data.	 Assessors should provide evidence of the management review period (which should be no more than every 5 years) and the organisation responsible for the review. Advisory: The review can consider components of the management system over time and include one or more of: The same or other departments of the management agencies Other national agencies or organisations within the country Separate review or audit from a recognised national or international agency External expert reviewers appointed by the management organisation(s).

312 M2 Surveillance, Control and Enforcement - Minimum Requirements

Clause / sub-clause	Guidance					
M2.1 There is an organisation responsible for monitoring compliance with fishery laws						
and regulations.						
M2.1.1 There is an	Assessors should state who the main organisation (s) responsible					
organisation responsible	for MCS is/are and where it/they were identifiable. This can					
for monitoring	include a separate department or section of the management					
compliance with specific	organisation or a separately appointed organisation. In all cases,					
monitoring, control and	evidence should be provided that the entity is legally mandated to					
surveillance (MCS)	perform the functions of MCS.					
mechanisms in place.						
M2.1.2 There are relevant	Assessors should provide evidence that there is both implicit					
tools/mechanisms used	mechanisms within the management system and explicit MCS					
to minimise IUU activity.	related tools to deter, detect and prevent IUU and account for IUU					
	fishing mortality in the reporting, stock assessment and					
	management system. This can include:					
	- Specific rules for prosecution of IUU fishing activity.					
	- Checks and rules to identify, impound and prosecute the					
	owners of vessels that are IUU blacklisted.					

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	- Checks on the Marin Trust Applicant that they have
	procedures to identify and avoid catches from IUU
	vessels.
	- An evaluation of the risk of IUU in the fishery and its
	impact on stock and ecosystem health and management.
M2.1.3 There is evidence	Assessors should provide evidence of the level and type of MCS
of monitoring and	activity. MCS activity can consist of at sea, at port or other remote
surveillance activity	monitoring mechanisms. MCS should be used to assess
appropriate to the	compliance behaviour and establish future management
intensity, geography,	measures needed based on historical compliance behaviour and
management control	risk, including:
measures and	- Inspection of landed catches, catch composition and catch
compliance behaviour of	documentation from fishers and catches purchased by
the fishery.	buyers.
	- At sea observation through boarding vessels
	- At sea observation through compliance checks of catches
	versus landed catches for vessels under review
	- At sea information provided by scientific observers
	- Fisher whistle blowing on suspected illegal fishing
	- Electronic/remote monitoring mechanisms –
	VMS/AIS/satellite observation
	- At sea reporting by fishers
	 Targets for % coverage of the various MCS activities
	of sanctions which are applied when infringements against laws
and regulations are discove	ered.
and regulations are discover M2.2.1 The laws and	ered. Assessors should provide evidence of a framework of sanctions, in
and regulations are discove M2.2.1 The laws and regulations provide for	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law.
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish.
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent.	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences.
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and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other
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and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other disincentives issued to deter further offences. The assessor should, where possible, provide examples of cases where the
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and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other disincentives issued to deter further offences. The assessor should, where possible, provide examples of cases where the punishment on offending vessels has been executed. The assessor will determine the extent to which these measures
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other disincentives issued to deter further offences. The assessor should, where possible, provide examples of cases where the punishment on offending vessels has been executed. The assessor will determine the extent to which these measures are effective, looking in particular for any reports illustrating examples of failed enforcement.
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other disincentives issued to deter further offences. The assessor should, where possible, provide examples of cases where the punishment on offending vessels has been executed. The assessor will determine the extent to which these measures are effective, looking in particular for any reports illustrating examples of failed enforcement. Additional evidence for this section can be obtained by on-site
and regulations are discover M2.2.1 The laws and regulations provide for penalties or sanctions that are adequate in severity to act as an effective deterrent. M2.2.2 There is 'no evidence of systematic	Assessors should provide evidence of a framework of sanctions, in the form of fines, penalties or other disincentives exists within the management system and are enforceable by law. Regulations indicate the sanctions for different infringements, including removal of the entitlement to fish. Assessors should identify if the sanctions are graduated in severity based on the severity of offences. Provide evidence that can be in the form of information of sanctions issued and prosecutions administered by the court or legal authority. Where repeat offences occur, sanctions should escalate, or other disincentives issued to deter further offences. The assessor should, where possible, provide examples of cases where the punishment on offending vessels has been executed. The assessor will determine the extent to which these measures are effective, looking in particular for any reports illustrating examples of failed enforcement.



	Can it be determined that fishers comply with all relevant regulations? Do fishers provide additional information to managers to support the effective management of the fishery? This could include voluntarily carrying observers, recording bycatch data, reporting suspected illegal activity, providing operational or economic data?					
	evidence of widespread compliance in the fishery, and no					
substantial evidence of IUU M2.3.1 The level of						
compliance is	Assessors should document that annual or periodic review(s) are available and describe to what extent MCS is directed by					
documented and updated	intelligence from previous violations and risk of non-compliance.					
routinely, statistically	e.g., Reference to reports illustrating examples of the performance					
reviewed and available	of enforcement.					
(e.g. % infringements by						
category/segment) and	Additional evidence can include, for example, ensuring that all					
demonstrates	landings are monitored or that vessel locations are recorded.					
widespread compliance	5					
in the fishery, relevant to	Advisory: Evidence for M2.3.1 may also fulfil M2.2.3.					
the fleet and segments,						
and there is evidence of						
no substantial IUU.						
M2.3.2 Fishers provide	Assessors should provide evidence of fisher cooperation in					
additional information	supporting activities that support management of the fishery					
and cooperate with	and/or detect and deter IUU such as:					
managers/enforcement						
agencies to support the	- Reporting of suspicious vessel activity					
effective management of	- Self-monitoring and reporting					
the fishery.	- Participation in observer programs					
	- Recording additional data on catches/bycatches					
	- Collecting operational/economic data					
M2.3.3 The catch	Assessors should provide evidence that there is a legal					
recording and reporting	requirement to identify by vessel:					
system is sufficient for	- catch composition/landed catches by species,					
effective traceability of	- quantity of catch,					
catches per vessel and	- date of catch,					
supports the prevention	- location of catch (e.g., fishing area),					
of IUU.	- place of landing,					
	- total catch discharged at each landing, and					
	- the recipient of the landed catches.					
	Advisory: Evidence for this clause may be supported by audits at					
	applicant sites.					

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9. CATEGORY A SPECIES

- 315 This section applies to Category A species. A1 A4 should be completed for **each** Category A species.
- 316 A Category A species must meet the minimum requirements of the clauses before it can achieve a
- 317 pass rating. The clauses should be completed by providing sufficient evidence to justify awarding
- 318 each of the requirements a pass or fail rating.
- 319 If the species fails any of these clauses it should be re-assessed as a Category B species.
- 320

321 Guidance to support Category A assessment

Main clause	Guidance						
A1. Data Collection - Mini	A1. Data Collection - Minimum Requirements						
A1.1 Landings data are collected such that the fishery-wide removals of this species are known.	To attain a pass rating the assessment team should be able to determine whether the research conducted on the fishery stock is sufficiently effective and informed to enable responsible management of the fishery. Stock abundance and removals should be monitored and at least one indicator should be available and monitored with sufficient frequency to support the harvest control rule. Usually, the research will take three forms:						
	 fishery dependent (data collected by on-board observers, landings data, discard and by catch data), fishery independent (trawl, hydro-acoustic and other surveys), and 'tertiary' (other research, not necessarily directly fishery related, which contributes to the understanding of the biology and ecology of the target species and associated organisms). 						
A1.2 Sufficient additional information is collected to enable an indication of stock status to be estimated.	 Relevant information related to the stock structure, stock productivity and fleet composition is available to support the harvest strategy. Key sources of this information could be; The stock assessment and any background documents such as benchmark assessments. The management plan, in particular where it details the monitoring and data collection requirements. Any legislation which details the approach to data collection or monitoring requirements. Evaluations of the HCR or harvest strategy. Research plan. Scientific papers, 						
A1 References	 The stock assessment and any background documents such as benchmark assessments. 						

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of the volume of fishery removals which is appropriate for the current stock status. A2.4 The assessment is subject to internal or external peer review.	The assessment of the stock status is subject to peer review. Key sources of information include: Any internal or external peer reviews of the stock assessment.
A2.2 The assessment provides an estimate of the status of the biological stock relative to a reference point or proxy. A2.3 The assessment provides an indication	To meet the requirements of this clause the assessment must estimate stock status relative to generic reference points appropriate to the species category. Harvest Control Rules are in place or are available that are expected to reduce the exploitation rate as the point of recruitment
A2.1 A stock assessment is conducted at least once every 3 years (or every 5 years if there is substantial supporting information that this is sufficient for the long- term sustainable management of the stock), and considers all fishery removals and the biological characteristics of the species.	 The assessment team should ensure that the stock assessment is appropriate for the stock and for the harvest control rule. Is the stock assessment a one-off, or will it continue to be carried out at appropriate intervals such as 3 or 5 years? Given the scale and intensity and operational practices of the fishery, is the assessment appropriate to provide managers with reliable understanding of the effectiveness of the harvest strategy? Key sources of information: The stock assessment and any background documents such as benchmark assessments. The management plan, in particular where it details the monitoring and data collection requirements. Any legislation which details the approach to data collection or monitoring requirements. Evaluations of the HCR or harvest strategy. Research plan Scientific papers
A2 Stock Assessment - M	



	 The fishery management plan, should this detail the process of stock assessment peer review. 		
A2.5 The assessment is made publicly available.	Fishery performance data (stock assessments and management advice etc.) are these widely communicated and available? If the stock assessment cannot be easily obtained, the species should be awarded a Fail rating against this requirement.		
A2 References	 The stock assessment report Background documents, such as benchmark assessment Science working group papers Any internal or external peer review of the stock assessment Published literature demonstrating the appropriateness of the assessment. Management plans, defining how the HCRs will be applied Any evaluations of the HCR Any policy or regulatory documents detailing the process of peer review 		
A3 Harvest Strategy - Mir	limum Requirements		
A3.1 There is a mechanism in place by which total fishing mortality of this species is restricted.	There is a harvest strategy that is expected to achieve stock management objectives. Assessment is by a direct comparison of scientific advice against the published fishing quota. The assessment team will also consider final landings data and compare this to the initial scientific advice.		
	The assessment should consider all historical data but can meet this clause as long as the fishery removals meet the requirements outlined in A3.2.		
A3.2 Total fishery removals of this species do not regularly exceed the level indicated or stated in the stock assessment. Where a specific quantity of removals is recommended, the actual removals may exceed this by up to 10% ONLY if the stock status is above the limit reference point or proxy.	 Harvest control rules should be in place or available that are expected to reduce the exploitation rate as the point of recruitment impairment is approached. Key sources of information: Legislation, regulations or licensing arrangements relating to the HCRs. Management plans, defining how the HCRs will be applied Monitoring and management tools are in place to ensure that the exploitation rate could and would be reduced in the event of a decline in stock status, approaching the PRI. 		
A3.3 Commercial fishery removals are prohibited when the stock has been	Management measures should specify the actions to be taken in the event that the status of the stock under consideration drops below levels consistent with achieving management objectives that allow		



estimated to be below	for the restoration of the stock to such levels within a reasonable						
the limit reference	timeframe.						
point or proxy (small quotas for research or non-target catch of the species in other fisheries are permissible).	Note that all advice in this section is subject to the interpretation of all available evidence. Some states issue small quotas for scientific research purposes even when the advice is for fishery closure. Fisheries with quotas which have historically been significantly above advice may achieve a pass rating if there is a long-term plan under implementation which is making significant reductions in landings each season. The final determination is the decision of the assessment team and the guidance above is not binding.						
A3 References	References						
	 The stock assessment report for the fishery The fishery management plan and the HCR The fishery technical regulations (Landings and effort restrictions, technical conservation measures) Legislation, regulations or licencing arrangements relating to the HCRs Management plans, defining how the HCRs will be applied Any specific recovery or rebuilding plan or strategy 						
A4 Stock Status - Minimu	m Requirements						
A4.1 The stock is at or	The clause is awarded a pass when the stock is estimated to be above						
above the target	the limit reference point or proxy, or there is evidence that a fall						
reference point, OR IF NOT:	below the limit reference point or proxy would result in the fishery closure.						
The stock is above the limit reference point or proxy and there is	A Fail is awarded if the stock is below the limit reference point and fishing is occurring with no evidence of stock rebuilding within a specified timeframe.						
evidence that a fall below the limit reference point would	The assessor will consider the biology of the species and the scale and intensity of the fishing and the management system and other relevant issues over which to judge fluctuations.						
result in fishery closure OR IF NOT:	Proxy indicators and reference points used must be justified as reasonable indicators of stock biomass by the assessor.						
The stock is estimated to be below the limit reference point or proxy, but fishery removals are prohibited.	Recent trends in fishing mortality rate may be used as a means of scoring stock status. The assessor must provide evidence that F has been low enough for long enough to ensure that the required biomass levels are now likely to be met.						
A4 References	Stock assessment reports						
	Benchmark assessments						
	Management plans						



10. CATEGORY B SPECIES

324 Category B species are those which make up greater than 5% of landings in the fishery under
325 assessment, but which are not subject to a species-specific research and management regime
326 sufficient to pass all Category A clauses. A Category B species must be demonstrated to be a low risk
327 to achieve a pass rating. Sufficient evidence must be provided to justify awarding the species a pass
328 or fail rating.

Category B species are assessed using a risk-based approach. The following process should be completed once for each Category B species.

Category B species are "unmanaged" and as such will generally not have a stock assessment
available, and so much of the information required for the assessment may be unavailable. As an
absolute minimum, a Category B species must have some indication of the long-term biomass

trends, perhaps in the form of survey biomass trends or research/commercial CPUE indices, and

- the majority will require an indication of fishing mortality trends or indices. Category B species
- without any of this information must be awarded a Fail rating, as per Table B(b). If resilience for a
- 337 given species is not available in the FishBase database it should be calculated based on the
- 338 methodology explained below.
- 339

This clause should be assessed by utilising the available information and applying it to the method detailed in either Table B(a) or Table B(b). An explanation of the table used, the evidence applied, and the outcome should then be provided in the template.

- 343
- 344 345

• If there are estimates of biomass (B), fishing mortality (F), and reference points

346 It is possible for a Category B species to have some biomass and fishing mortality data available.
347 When sufficient information is present, the assessor shall use the risk matrix in Table B(a) to
348 determine whether the species should be recommended for approval.

In Table B(a), proxies of reference points are acceptable. The 'long term average' for the stock
biomass and fishery fishing mortality should be estimated using an approach appropriate to the
stock under assessment. This will generally be the mean of all available stock data.

- 352
- 353

• If the biomass / fishing pressure risk assessment is not possible

Initially, the resilience of each Category B species to fishing pressure should be estimated using the
American Fisheries Society procedure described in Musick, J.A. (1999). This approach is used as the
resilience values for many species and stocks have been estimated by FishBase and are already
available online (FishBase : A Global Information System on Fishes). Details of this methodology is
provided in Box 1.



- 359 Determining the resilience provides a basis for estimating the risk that fishing may pose to the long-
- term sustainability of the stock.
- 361 Table B(b) should be used to determine whether the species can pass Category B assessment. The
- 362 outcome of the Category B assessment is recorded in the Whole Fish Fishery Assessment Template,
- the assessor shall award a pass/fail outcome to each Category B species assessed.

The assessor shall apply the risk matrix in Table B(a) when assessing a Category B species whenEstimates of Fishing mortality (F), Biomass (B) and reference points are available.

367 **Table B(a) – Biomass/fishing pressure risk assessment.**

The assessor shall apply the risk matrix in Table B(a) when assessing a Category B species whenEstimates of Fishing mortality (F), Biomass (B) and reference points are available.

					-
Biomass is above MSY / target reference point	Pass	Pass	Pass	Fail	Fail
Biomass is below MSY / target reference point, but above limit reference point	Pass, but re- assess when fishery removals resume	Pass	Fail	Fail	Fail
Biomass is below limit reference point (stock is overfished)	Pass, but re- assess when fishery removals resume	Fail	Fail	Fail	Fail
Biomass is significantly below limit reference point (Recruitment impaired)	Fail	Fail	Fail	Fail	Fail

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Fishery removals are prohibited	Fishing mortality is below MSY or target reference point	Fishing mortality is around MSY or target reference point, or below the long-term average	Fishing mortality is above the MSY or target reference point, or around the long-term average	Fishing mortality is above the limit reference point or above the long-term average (Stock is subject to
				overfishing)

- 371 The assessor shall apply the risk matrix in Table B(b) when assessing a Category B species when no
- 372 reference points are available.

373 Table B(b) – Biomass resilience ratings, assessing Category B species when no reference

374 **points available**.

375 Key: B = current biomass; Bav = long-term average biomass; F = current fishing mortality;

376 **Fav = long-term average fishing mortality.**

B > B _{av} and F < F _{av}	Pass	Pass	Pass	Fail
B > B _{av} and F or F _{av}	Pass	Pass	Fail	Fail
unknown				
$B = B_{av}$ and $F < F_{av}$	Pass	Pass	Fail	Fail
B = B _{av} and F or F _{av}	Pass	Fail	Fail	Fail
unknown				
B > B _{av} and F > F _{av}	Pass	Fail	Fail	Fail
B < B _{av}	Fail	Fail	Fail	Fail
B unknown	Fail	Fail	Fail	Fail
Resilience	High	Medium	Low	Very Low

377 References for assessing Category B species:

378	•	FishBase – A Global Information System on Fisheries: FishBase.org
379	•	Management measures
380	•	Time series of catch and effort
381	٠	Ecosystem descriptions
382		Life history characteristics providing indications of species productivity, vulnerability and
383		susceptibility to capture.

• Observer reports

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387			

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389 Box 1 Determining Resilience Ratings in Category B

The assessment of Category B species described in this assessment report template utilises a resilience rating system suggested by the American Fisheries Society. This approach was chosen because it is also used by FishBase, and so the resilience ratings for many thousands of species are freely available online. As described by FishBase, the following is the process used to arrive at the resilience ratings:

"The American Fisheries Society (AFS) has suggested values for several biological parameters that allow classification of a fish population or species into categories of high, medium, low and very low resilience or productivity (Musick 1999). If no reliable estimate of r_m (see below) is available, the assignment is to the lowest category for which any of the available parameters fits. For each of these categories, AFS has suggested thresholds for decline over the longer of 10 years or three generations. If an observed decline measured in biomass or numbers of mature individuals exceeds the indicated threshold value, the population or species is considered vulnerable to extinction unless explicitly shown otherwise. If one sex strongly limits the reproductive capacity of the species or population, then only the decline in the limiting sex should be considered. We decided to restrict the automatic assignment of resilience categories in the Key Facts page to values of K, t_m and t_{max} and those records of fecundity estimates that referred to minimum number of eggs or pups per female per year, assuming that these were equivalent to average fecundity at first maturity (Musick 1999). Note that many small fishes may spawn several times per year (we exclude these for the time being) and large live bearers such as the coelacanth may have gestation periods of more than one year (we corrected fecundity estimates for those cases reported in the literature). Also, we excluded resilience estimates based on r_m (see below) as we are not yet confident with the reliability of the current method for estimating rm. If users have independent r_m or fecundity estimates, they can refer to Table 1 for using this information."

Parameter	High	Medium	Low	Very low
Threshold	0.99	0.95	0.85	0.70
r _{max} (1/year)	> 0.5	0.16 - 0.50	0.05 - 0.15	< 0.05
K (1/year)	> 0.3	0.16 - 0.30	0.05 - 0.15	< 0.05
Fecundity (1/year)	> 10,000	100 - 1000	10 - 100	< 10
t _m (years)	< 1	2 - 4	5 - 10	> 10
t _{max} (years)	1 - 3	4 - 10	11 - 30	> 30

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11. CATEGORY C SPECIES

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.

- 395 C1 should be completed for **each** Category C species.
- 396

397 Guidance to support Category C assessment

Clause	Guidance				
C1 Category C Stock Sta	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.	Stock assessments rarely specify if fishery removals are negligible. Here the assessor must look for evidence such as management measures being implemented for stock rebuilding and that the management measures are not contradicting scientific advice. Examples of management measures: reduction in landings and effort, may also include increased landing controls, technical measures (such as gear modification or changes to minimum landing sizes) or spatial or temporal closures.				
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 stock should be assessed in terms of the overall outcome objectives i.e to pass this clause there should be evidence that the stock status is above the point at which there is an appreciable risk that recruitment is impaired and will be at or above Blim. Where historical estimates of stock size and resulting recruitment are available, the PRI may be identifiable as the point below which reduced recruitment has been observed in the past, and above which recruitment appears to be more related to environmental factors than to stock size. The standard requires that management measures specify the actions to be taken in the event that the status of the stock under consideration drops below levels consistent with achieving management objectives that allow for the restoration of the stock to such levels within a reasonable time frame. This requires the specification in advance of decision rules that mandate remedial management actions to be taken if target reference points are exceeded and/or limit reference points are approached or exceeded or the desired directions in key indicators of stock status are not achieved. For example, decreasing fishing mortality (or its proxy) if the stock size approaches its limit reference point. This is a central component of the PRI and BMSY, as used in scoring the stock status are given below. They are often related to B0, the stock status that would be present in the absence of fishing.				

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	 In the case where neither BMSY nor the PRI are analytically determined, the following default reference points may be appropriate for measuring stock status depending on the species: BMSY=40%B0; PRI=20%B0=½BMSY. In the case where either BMSY or the PRI are analytically determined, those values should be used as the reference points for measuring stock status unless additional precaution is sought. In the case where BMSY is analytically determined to be greater than 40%B0, and there is no analytical determined to be greater than 40%B0, and there is no analytical determined to be lower than 40%B0 (as in some highly productive stocks), and there is no analytically determined to be lower than 40%B0 (as in some highly productive stocks), and there is no analytical determined to be lower than 40%B0 (as in some highly productive stocks), and there is no analytical determined to be S0%B0 unless BMSY<27%B0, in which case the default PRI should be 20%B0 unless BMSY<27%B0, in which case the default PRI should be 75%BMSY. For stocks with average productivity, where BMSY is not analytically determined but assumed to be 40%B0 and a management trigger reference point is set greater than 40%B0 for precautionary reasons, the default PRI should still be set at 20%B0=½BMSY unless it is analytically determined. This covers situations where the management authority has deliberately chosen a conservative target reference point, but where the default PRI is still appropriate. In cases where the PRI is set at 20% B0, a default value for the BMSY may be assumed to be 2xPRI. In other cases, for instance more the DRI is neat the kernet be kernet to the prove the store of the prior of the PRI is neated to be prove the precession.
	where the PRI is set at the lowest historical biomass, it cannot be assumed that BMSY = 2xPRI. Teams shall justify any reference point used as a proxy of BMSY in terms of its
	consistency with BMSY.
C1 References	The default PRI values given above (½BMSY or 20%B0) apply to stocks with average productivity. Such points are generally consistent with being above the point at which there is an appreciable risk that recruitment is impaired, though for some short-lived stocks the actual point at which there is an appreciable risk that recruitment is impaired may be lower than 20%B0 and for some long-lived species it may be higher than this. References
CTRETERENCES	References
	Catch composition data Stack assessments
	Stock assessmentsManagement measures for any stocks shown to be depleted
	Evidence that the fishery is not hindering the recovery of the species below the PRI, such as evidence indicating a lack of gear interaction, or evidence pointing to an unrelated cause (or fishery) limiting recovery.

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399 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.
- 404 The process for assessing Category D species involves the use of a Productivity-Susceptibility
- 405 Analysis (PSA) to further subdivide the species into 'Critical Risk', 'Major Risk' and 'Minor Risk'
- 406 groups. A PSA measures, using predetermined attributes, the vulnerability of a species to the
- 407 impacts from fishing.
- 408 Productivity and susceptibility attributes and scores are calculated using a PSA methodology taken
 409 from the Marine Stewardship Council (MSC), See MSC Fisheries Standard Toolbox v1.0 (date of
 410 issue 26 October 2022).
- 411 Any Category D species which has been categorised by the IUCN Red List as Endangered or
- 412 Critically Endangered, or which appears in the CITES appendices 1 or 2, automatically results in a 413 fail.
- 413

414

- Table D1 should be completed in the Whole Fish Fishery Assessment template for each CategoryD species as follows:
- 417 The assessor shall use the best available information to fill in values for each productivity
 418 and susceptibility attribute.
- The assessor shall use Table D(a)to convert each Productivity attribute value and each
 Susceptibility attribute value into a score between 1 and 3 (this is the risk rating provided in Table D(a).
- The assessor shall calculate the average score for productivity attributes and the average
 for susceptibility attributes and record this in Table D1 in the reporting template.
- If information cannot be found for an attribute on Fishbase.org or any other reliable source,
 then this value is described as unknown, and the score is not factored into the average
 productivity.
- Where there is uncertainty affecting the assessor's decision when scoring the susceptibility
 attributes this should be noted in Table D1.
- The assessor shall then use Table D(b) to calculate an overall PSA risk rating for the
 Category D species under assessment.
- 431 The outcome of the PSA risk rating can be either:
- 432

433

- The Risk Rating is Low and the species passes the Category B assessment, or
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- 434 The Risk Rating is Higher, and the assessor shall complete additional
 435 checks to assess the vulnerability of the Category B species to the impacts
 436 of fishing.
- 437 The assessor shall record the outcome of the PSA Risk Rating in Table D1.
- If the assessor is required to complete additional checks (i.e. fails to pass Risk Rating in Table D(b)) then the assessor shall complete Table D2, assessing if the species meets the clauses D2.1 and D2.2.
- If the species meets the criteria, the assessor shall give overall clause outcome as Pass. If
 the species fails to meet the criteria, the assessor shall give the overall clause outcome as
 Fail.
- 444 Table D2(a) Productivity Susceptibility Analysis (PSA) and scores.

PSA productivity attributes and scores for fish and invertebrates							
Productivity attributes		n productivity v risk, score = 1)		Medium productivity (medium risk, score = 2)		Low productivity (high risk, score = 3)	
Average age at maturity	<5 yea	<5 years		5-15 years		>15 years	
Average maximum age	<10 ye	ears	10-2	10-25 years		ears	
Fecundity	>20,00	00 eggs per year	100- year	20,000 eggs per	<100	eggs per year	
Average maximum size	<100	cm 1		100-300 cm		>300 cm	
Average size at maturity	<40 cr	<40 cm		40-200 cm		cm	
Reproductive strategy	Broad	Broadcast spawner		Demersal egg layer		bearer	
Mean Trophic Level	<2.75	75		2.75-3.25		,	
Density dependence (to be used when scoring invertebrate species only)	dynar popul	nics at low		No depensatory or compensatory dynamics demonstrated or likely		nsatory mics at low lation sizes effects) onstrated or	
PSA susceptibility attributes and for fish and invertebrates							
Susceptibility attributes		Low susceptibility suscep (Low risk, score = 1) (mediu		Medium susceptibility (medium risk, score = 2)		h ceptibility gh risk, score =	
Areal overlap (availa =	bility)	<10% overlap		10-30% overlap		9% overlap	



Overlap of the fishing effort with a species concentration of the stock						
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	Low overlap with fishing gear (low encounterability).			edium overlap with hing gear.	fishi enco Defa	n overlap with ng gear (high ounterability). ault score for et species
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	a	Individuals < size at maturity are regularly caught.	a	Individuals < size at maturity are frequently caught
Potential of the gear to retain species	b	Individuals < size at maturity can escape or avoid gear.	b	Individuals < half the size at maturity can escape or avoid gear.	b	Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	Evidence of majority released post- capture and survival. >66% of animals are returned alive and survive the encounter. Where observers can verify that >66% are released alive in combination with a high risk score for selectivity, the PCM score may be reduced to a low risk score (1).		rel an of ret su Wh ve rel co hig sel sco to	idence of some eased post-capture d survival. 33-66% animals are surned alive and rvive the encounter. here observers can rify that 33-66% are eased alive in mbination with a gh risk score for fectivity, the PCM ore may be reduced a medium risk ore (2).	or m	ined species ajority dead n released.

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450 Table D(b) PSA Risk Rating table.

	Average Susceptibility Score	1 - 1.75	1.76 - 2.24	2.25 - 3
	1 - 1.75	PASS	PASS	PASS
Average Productivity Score	1.76 - 2.24	PASS	PASS	Further checks – criteria in Table D2
	2.25 - 3	PASS	Further checks – criteria in Table D2	Further checks – criteria in Table D2

451 **Guidance to support completing Table D2**

Clause	Guidance
D2 Impacts On Specie	es Categorised as vulnerable through the PSA.
D2.1 The potential	Is there a quantitative breakdown of catches in the fishery?
impacts of the	Are there any ecosystem descriptions or catch composition time series
fishery on this	available that may provide some empirical evidence of relative status of
species are	any such species?
considered during	Are there management measures in place for any stocks shown to be
the management	depleted?
process, and	
reasonable	
measures are	
taken to minimise	
these impacts.	
D2.2 There is no	Some quantitative information that enables the assessment of the impact
substantial	of the fishery on the species should be available. Management measures,
evidence that the	ecosystem descriptions etc.
fishery has a	Significant negative effect means that the fishery is highly likely to hinder
significant negative	the recovery of the species.
impact on the	
species.	
D4 REFERENCES	FishBase.org
	Management measures
	Time series of catch and effort
	Ecosystem descriptions
	Life history characteristics providing indications of species
	productivity, vulnerability and susceptibility to capture.
	Observer reports

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12. ECOSYSTEM IMPACTS

The three sections in the Ecosystem Impacts module (E1, E2 and E3) relate to the impacts the
fishery under assessment may have in other areas (on Endangered, Threatened or Protected (ETT)
species, on the habitat and on the wider ecosystem). The assessor shall assess each sub-clause,

458 determining if the clause is met or not met. If the majority of sub-clauses are met, the assessor

459 shall award the main clause is then given a Pass rating, if the majority of sub-classes are not met,

460 the assessor shall award a Fail rating. Evidence must be provided to justify the determinations.

- 461 References shall be included in the reporting template.
- 462

463 E1 Impacts on ETP Species - Minimum Requirements

464 **Guidance to support E1 assessment**

- Assessors should provide evidence of the existence of a formal or informal ETP managementstrategy, with a focus on describing any measures which are in place to reduce the impacts of the
- 467 fishery on one or more ETP species. Such measures could include:
- Gear restrictions / regulations;
- Spatial or seasonal restrictions;
- Fisher training;
- Voluntary or mandatory codes of conduct;
- 472 Evidence that restrictions on the total level of fishery removals take into account the needs
 473 of ETP predator species.
- 474 Fisheries which have no specific measures in place may bypass this requirement (i.e. should be
- awarded a Pass against this clause) if there is substantial scientific evidence that no such measuresare required.
- 477

Clause / Sub-clause	Guidance			
E1.1 Information on intera	actions between the fishery and ETP species is collected			
E1.1.1: ETP species which	Assessors should provide evidence that fishery managers are			
may be directly affected	aware of the ETP species which are present in the area(s) where			
by the fishery have been	the fishery is carried out. This may be explicit (e.g. a scientific study			
identified.	and/or report) or implicit (e.g. legislation or regulations to protect			
	ETP species).			
	Assessors should refer to national and international legislation, and the IUCN Red List, to determine to what extent all potential ETP species have been considered.			
	 Potential groups of ETP species include: Finfish, including sharks and rays Marine mammals Turtles 			

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	Sea birds	
	Invertebrates	
E1.1.2: Interactions	Assessors should determine whether and how interactions with	
between the fishery and	ETP species are recorded and reported. Assessors should consider	
ETP species are recorded	how likely the methods recorded are to provide an accurate	
and reported to	indication of the rates of interaction. Factors which could affect this	
management	include:	
organisations.	The proportion of fishing trips on which an observer is	
	present;	
	 Whether or not reporting interactions is a legal 	
	requirement;	
	Whether fishery-dependent or -independent studies are	
	carried out to determine the extent of ETP interactions;	
	 The extent to which the fleet utilises video surveillance. 	
	As a minimum, the management organisation must be made	
	aware of every ETP mortality event.	
E1.1.3: Collection and	Assessors should consider whether the information collected on	
analysis of ETP	ETP species is sufficient to provide fishery managers with an	
information is adequate	informed and reliable view of the impacts of the fishery on ETP	
to provide a reliable	species. This may include information collected independently of	
indication of the impact	the fishery, e.g. by studies to determine the size and vulnerability	
the fishery has on ETP	of the ETP population, or survival rates of a species after capture.	
species.		
	This clause should primarily be assessed by considering whether	
	the conclusions reached in E1.1.2 – whether the fishery has a	
	significant negative impact on ETP species – and in E1.1.3 –	
	whether there is a strategy in place to manage impacts on ETP	
	species – are founded on a solid evidentiary basis. The fishery	
	should not be awarded a Pass against this clause if there is a	
	significant degree of uncertainty surrounding either, and there are	
	reasonable measures which managers could take to reduce that	
	uncertainty but have not.	
E1.2 The fishery has no sig	nificant negative impact on ETP species.	
E1.2.1: The information	Assessors should review the conclusions reached by the	
collected in relation to	management process – i.e. by managers and/or scientific	
E1.1.3 indicates that the	organisations associated with fishery managers; however,	
fishery does not have a	assessors should also consider any fishery-independent	
significant negative	information available.	
impact on ETP species.		
	The assessor is not expected to conduct their own analysis of the	
	likely impacts of the fishery on ETP species, and should instead	
	review conclusions reached by experts; however, in most cases it is	
	unlikely that the assessor will find a clear yes/no answer to the	
	question. In these instances the assessor should consider the	
	following:	
	• Does the activity of the fishery cause a large number of	
	mortalities of the ETP species, relative to the population	
	size of that species?	



	 Does the activity of the fishery cause a large number of mortalities relative to the total fishery-related mortality of the ETP species? Have any reliable sources expressed concerns about the level of ETP mortality in this specific fishery? Do the biological characteristics of the ETP species make it particularly vulnerable to the specific type of fishing activity being carried out; e.g. does the gear used mean post-release mortality is likely to be high, or that unrecorded mortalities are likely? Does the 			
	fishery mainly interact with juveniles or adults? Etc.			
E1.3 There is an ETP manag	gement strategy in place for the fishery.			
E1.3.1: There are measures applied to the fishery which are designed to manage the impacts of the fishery on ETP species.	 Assessors should provide evidence of the existence of a formal or informal ETP management strategy, with a focus on describing any measures which are in place to reduce the impacts of the fishery on one or more ETP species. Such measures could include: Gear restrictions / regulations; Spatial or seasonal restrictions; Fisher training; Voluntary or mandatory codes of conduct; Evidence that restrictions on the total level of fishery removals take into account the needs of ETP predator species. Fisheries which have no specific measures in place may bypass this requirement (i.e. this clause should be considered met) if there is substantial scientific evidence that no such measures are required. 			
E1.3.2: The measures are	The assessor should provide evidence of any actions or tools in			
considered likely to	place that explicitly or indirectly contribute to achieving the			
achieve the objectives of				
regional, national and	Examples can include:			
international legislation	Mitigation measures that minimise mortalities of a species			
relating to ETP species.	 with a specific gear type Comparison with similar fisheries and species (e.g. similar gear, area of operation, interactions with same ETP species) From trials or measures taken by the fishery itself. 			

479



480 E2 Impacts on Habitats - Minimum Requirements

481 Guidance to support E2 assessment

Clause / Sub-clause	Guidance
	eractions between the fishery and marine habitats is collected.
E2.1.1: Habitats which may be directly affected by the fishery have been identified, including any habitats which may be particularly vulnerable.	Assessors should provide evidence that fishery managers are aware of the habitats which are present in the area(s) where the fishery is carried out. This may be explicit (e.g. a scientific study and/or report, or habitat maps) or implicit (e.g. legislation or regulations to protect vulnerable habitats).
E2.1.2: Information on the scale, location and intensity of fishing activity relative to habitats is collected.	 Assessors should determine whether information is available to indicate where the fishery takes place, such as through VMS monitoring. Assessors should consider how likely the methods recorded are to provide an accurate indication of the location and intensity of fishing activity and/or habitat interactions. Factors which could affect this include: The proportion of vessels which use VMS, or implement another system to report their location during or after fishing activity. The proportion of trips on which an observer is present. Whether or not fishery-dependent or -independent studies have been conducted to determine the location and intensity of fishing activities and/or habitat interactions.
E2.1.3: Collection and analysis of habitat information is adequate to provide a reliable indication of the impact the fishery has on marine habitats.	Assessors should consider whether the information collected on the locations of habitats and fishing activity is sufficient to provide fishery managers with an informed and reliable view of the impacts of the fishery on those habitats. This may include information collected independently of the fishery. This clause should primarily be assessed by considering whether the conclusions reached in E2.2.2 – whether the fishery has a significant negative impact on habitats – and in E11.3 – whether there is a strategy in place to manage impacts on habitats – are founded on a solid evidentiary basis. The fishery should not be awarded a Pass against this clause if there is a significant degree of uncertainty surrounding either, and there are reasonable measures which managers could take to reduce that uncertainty but have not.
E2.2 The fishery has no E2.2.1: The information collected in relation to F2.1.3 indicates that the fishery does not have	significant impact on marine habitats. Assessors should review the conclusions reached by the management process – i.e. by managers and/or scientific organisations associated with fishery managers; however, assessors should also consider any fishery-independent information available.
a significant negative	d (00257200) DRAFT Version 2 for public consultation May 2022 pot approved for use

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impact on marine	The assessor is not expected to conduct their own analysis of the likely
impact on marine habitats	 The assessor is not expected to conduct their own analysis of the likely impacts of the fishery on habitats, and should instead review conclusions reached by experts. The assessor should also consider the following: Is there evidence that the fishery damages vulnerable habitats? How badly are the habitats likely to be damaged? How quickly will they recover? How frequently are they likely to be damaged? Are there measures in place to prevent or mitigate this damage, such as gear restrictions or limitations to the areas in which fishing activity can occur? Have any fishery stakeholders expressed concern about the damage the fishery is causing to vulnerable habitats? Are there any habitats which might be damaged by the fishery which are particularly important, such as those important to ETP species?
E2.3 There is a habitat	management strategy in place for the fishery.
E2.3.1: There are	Assessors should provide evidence of the existence of a formal or
measures applied to	informal habitats management strategy, with a focus on describing
the fishery which are	any measures which are in place to reduce the impacts of the fishery
designed to manage	on habitats. Such measures could include:
the impact of the	Gear restrictions / regulations;
fishery on marine	Spatial or seasonal restrictions;
habitats.	Fisher training;
	 Voluntary or mandatory codes of conduct;
	VMS and/or observer coverage
	Fisheries which have no specific measures in place may bypass this
	requirement (i.e. this clause should be considered met) if there is
	substantial scientific evidence that no such measures are required.
E2.3.2: The measures	Accorport the uld primarily consider whether the measures described
are considered likely	Assessors should primarily consider whether the measures described in F2.3.1 are appropriate and sufficient. This could involve a
to prevent the	comparison of the measures with:
fishery from having a	
significant negative	 The measures in place in other fisheries; Any measures which have been recommended by scientific
impact on marine	 Any measures which have been recommended by scientific, industry or management organisations.
habitats.	In the absence of any evidence that measures are inadequate (or in a
	fishery where such measures are not necessary), the assessor should consider this sub-clause Met.
	Assessors should note that determining whether the measures are *actually* effective is covered by clause E2.2.1.

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484 E3 Ecosystem Impacts - Minimum Requirements

485 **Guidance to support E3 assessment**

Clause / Sub-clause	Guidance
	e potential impacts of the fishery on marine ecosystems is
collected.	
E3.1.1: The main elements of the marine ecosystems in the area(s) where the fishery takes	Assessors should provide evidence that fishery managers are aware of the main elements of the marine ecosystems which are present in the area(s) where the fishery is carried out. This may be explicit (e.g. information detailed in a scientific study and/or report) or implicit (e.g. legislation or regulations to protect key ecosystem components).
place have been identified.	As a minimum, there must be evidence of information describing the main species in the area(s) where the fishery takes place plus consideration of key abiotic factors such as water temperature.
E3.1.2 The role of the species caught in the fishery within the marine ecosystem is understood, either through research on this specific fishery or inferred from other fisheries.	 Assessors should determine whether the roles of the target or main species caught in the fishery within marine ecosystems are understood. The level of understanding does not need to be detailed and does not need to be based on the fishery under assessment. In determining whether this clause is met, fishery assessors should consider every Type 1 species (i.e. any species subject to a Category A or Category B assessment). Assessors should also consider: Is the trophic level of each species understood? Is it known whether each species is important as a food source, particularly for any ETP or otherwise vulnerable species? Is there information relating to the way environmental factors are likely to influence the population of each species?
E3.1.3: Collection and analysis of ecosystem information is adequate provide a reliable indication of the impact the fishery has on marine ecosystems.	Assessors should consider whether the information collected on marine ecosystems is sufficient to provide fishery managers with an informed and reliable view of the impacts of the fishery on ecosystems. This may include information collected independently of the fishery, e.g. by studies to determine the impact of similar fisheries on ecosystem structure and function. This clause should primarily be assessed by considering whether the conclusions reached in E3.3.2 – whether the fishery has a significant negative impact on ecosystems – and in E3.3.3 – whether there is a strategy in place to manage impacts on ecosystems – are founded on a solid evidentiary basis. The fishery should not be awarded a Pass against this clause if there is a significant degree of uncertainty surrounding either, and there are reasonable measures which managers could take to reduce that uncertainty but have not.

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E3.2 There is no substantial evidence that the fishery has a significant negative impact on	
the marine ecosystem.	
E3.2.1: The	Assessors should review the conclusions reached by the management
information	process – i.e. by managers and/or scientific organisations associated
collected in relation	with fishery managers; however, assessors should also consider any
to E3.1.3 indicates	fishery-independent information available.
that the fishery does	
not have a	The assessor is not expected to conduct their own analysis of the likely
significant negative	impacts of the fishery on ecosystems, and should instead review
impact on marine	conclusions reached by experts. In the absence of any evidence that
ecosystems	the fishery has had a significant negative impact on marine
···· ·	ecosystems, the assessor should award a Pass against this clause.
E3.3 There is an ecosys	stems management strategy in place for the fishery.
E3.3.1: There are	Assessors should provide evidence of the existence of a formal or
measures applied to	informal ecosystem, or similar, management strategy, with a focus on
the fishery which are	describing any measures which are in place to reduce the impacts of
designed to manage	the fishery on one or more ETP species. Such measures could include:
	 Evidence that restrictions on total catch are set with a
the impacts of the	
fishery on marine	consideration of the role of target species as prey;
ecosystems.	Gear restrictions / regulations;
	Spatial or seasonal restrictions.
	Fisheries which have no specific measures in place may bypass this
	requirement (i.e. should be awarded a Pass against this clause) if there
	is substantial scientific evidence that no such measures to protect
	ecosystems are required.
E3.3.2: The measures	Assessors should primarily consider whether the measures described
are considered likely	in E3.3.1 are appropriate and sufficient to prevent the fishery from
to prevent the	having significant negative impacts on the marine ecosystem. This
fishery from having a	could involve a comparison of the measures with:
significant negative	 The measures in place in other fisheries;
impact on marine	 Any measures which have been recommended by scientific,
ecosystems.	industry or management organisations.
	In the absence of any evidence that measures are inadequate (or in a
	fishery where such measures are not necessary), the assessor should
	consider this sub-clause Met
	Advisory: Assessors should note that determining whether the
	measures are actually effective is covered by clause E3.2.1.
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