

# MarinTrust Standard V2

# Whole fish Fishery Assessment Report Template (Insert Fishery Name)

#### **MarinTrust Programme**

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# Table 1 Application details and summary of the assessment outcome

Application details and summary of the assessment outcome							
Name(s):	Name(s):						
Country:	Country:						
-							
Email address:		Applicant	Code				
<b>Certification Body Detail</b>	s						
Name of Certification Bo	ody:						
Assessor Name	CB Peer Reviewer	Assessme	nt Days	Initial/Sur	veillance/ Re-approval		
Assessment Period				1			
	I						
Scope Details							
Management Authority	(Country/State)						
Main Species							
Fishery Location							
Gear Type(s)							
Outcome of Assessment							
Overall Outcome							
Clauses Failed							
CB Peer Review Evaluation	on						
Fishery Assessment Peer	Review Group Evaluati	on					
Recommendation							



# Table 2. Assessment Determination

Assessment Determination	
Fishery Assessment Peer Review Comments	
Notes for On-site Auditor	



#### **Table 3 General Results**

General Clause	Outcome (Pass/Fail)
M1 - Management Framework	
M2 - Surveillance, Control and Enforcement	
F1 - Impacts on ETP Species	
F2 - Impacts on Habitats	
F3 - Ecosystem Impacts	

# **Table 4 Species- Specific Results**

List all Category A and B species. List approximate total percentage (%) of landings which are Category C and D species; these do not need to be individually named here

Category	Species	% landings	Outcome (Pass/Fail)	
Category A				
category A				
Category B				
Category C				
Category D				



# **Table 5 Species Categorisation Table**

Common name	Latin name	Stock	IUCN Redlist Category <sup>1</sup>	% of landings	Management	Category
Species categoris	ation rationale					

<sup>&</sup>lt;sup>1</sup> https://www.iucnredlist.org/



#### **MANAGEMENT**

The two clauses in this section (M1, M2) relate to the general management regime applied to the fishery under assessment. The clauses should be completed by providing sufficient evidence to justify awarding each of the requirements a pass or fail rating. A fishery must meet all the minimum requirements in every clause before it can be recommended for approval.

M1	Management Framework – Minimum Requirements								
IAIT	M1.1	There is an organisation responsible for managing the fishery.							
	M1.2	There is an organisation responsible for collecting data and assessing the fishery.							
	M1.3	Fishery management organisations are publicly committed to sustainability.							
	M1.4	Fishery management organisations are leg	ally empowered to take management actions.						
	M1.5	There is a consultation process through	which fishery stakeholders are engaged in decision-						
		making.							
	M1.6	The decision-making process is transparent	t, with processes and results publicly available.						
			Clause outcome:						
M1.1	There i	s an organisation responsible for managing	the fishery.						
M1.2	There i	s an organisation responsible for collecting	data and assessing the fishery.						
M1.3	Fishery	management organisations are publicly co	mmitted to sustainability.						
M1.4	Fishery	management organisations are legally em	powered to take management actions.						
M1.5	There i	s a consultation process through which fish	ery stakeholders are engaged in decision-making.						
M1.6	The de	cision-making process is transparent, with	processes and results publicly available.						
Refere	References								
Links									
Marin	Trust S	tandard clause	1.3.1.1, 1.3.1.2						
FAO C	CRF		7.2, 7.3.1, 7.4.4, 12.3						
GSSI	D.1.01, D.4.01, D2.01, D1.07, D1.04,								

<b>M2</b>	Surveillance, Control and Enforcement - Minimum Requirements						
IVIZ	M2.1	There is an organisation responsible for monitoring compliance with fishery laws and					
		regulations.					
	M2.2	There is a framework of sanctions which are applied when laws and regulations are discovered					
	to have been broken.						
	M2.3	There is no substantial evidence of widespread non-compliance in the fishery, and no					
		substantial evidence of IUU fishing.					
	M2.4 Compliance with laws and regulations is actively monitored, through a regime which may						
		include at-sea and portside inspections, observer programmes, and VMS.					
	•	Clause outcome:					

- M2.1 There is an organisation responsible for monitoring compliance with fishery laws and regulations.
- M2.2 There is a framework of sanctions which are applied when laws and regulations are discovered to have been broken.
- M2.3 There is no substantial evidence of widespread non-compliance in the fishery, and no substantial evidence of IUU fishing.
- M2.4 Compliance with laws and regulations is actively monitored, through a regime which may include at-sea and portside inspections, observer programmes, and VMS.



References		
Links		
MarinTrust Standard clause	1.3.1.3	
FAO CCRF	7.7.2	
GSSI	D1.09	



#### **CATEGORY A SPECIES**

The four clauses in this section apply to Category A species. Clauses A1 - A4 should be completed for **each** Category A species. If there are no Category A species in the fishery under assessment, this section can be deleted. A Category A species must meet the minimum requirements of all four clauses before it can be recommended for approval. The clauses should be completed by providing sufficient evidence to justify awarding each of the requirements a pass or fail rating. The species must achieve a pass rating against all requirements to be awarded a pass overall. If the species fails any of these clauses it should be re-assessed as a Category B species.

Species Name							
<b>A1</b>	Data 0	Collection - M	inimum Requirements				
W.T.	A1.1	Landings dat	ta are collected such that the fishery-wide removals of this species are known.				
	A1.2 Sufficient additional information is collected to enable an indication of stock status to be						
		estimated.					
	Clause outcome:						
A1.1 La	andings	data are colle	cted such that the fishery-wide removals of this species are known.				
Refere	References						
Links	Links						
Marin	MarinTrust Standard clause 1.3.2.1.1, 1.3.2.1.2, 1.3.2.1.4, 1.3.1.2						
FAO C	CCRF		7.3.1, 12.3				
GSSI			D.4.01, D.5.01, D.6.02, D.3.14				

<b>A2</b>	Stock A	Stock Assessment - Minimum Requirements					
AZ	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.					
	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 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.					
	A2.5	The assessment is made publicly available.					
		Clause outcome:					

- 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.
- 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 estimate of the status of the biological stock relative to a reference point or proxy.
- A2.4 The assessment is subject to internal or external peer review.
- A2.5 The assessment is made publicly available.



References	
Links	
MarinTrust Standard clause	1.3.2.1.2, 1.3.2.1.4, 1.3.1.2
FAO CCRF	12.3
GSSI	D.5.01, D.6.02, D.3.14

<b>A3</b>	Harve	Harvest Strategy - Minimum Requirements						
AS	A3.1	There is a mechanism in place by which total fishing mortality of this species is restricted.						
	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.							
	A3.3 Commercial fishery removals are prohibited when the stock has been estimated to be below the							
	limit reference point or proxy (small quotas for research or non-target catch of the species in							
		other fisheries are permissible).						
		Clause outcome:						

A3.1 There is a mechanism in place by which total fishing mortality of this species is restricted.

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.

A3.3 Commercial fishery removals are prohibited when the stock has been estimated to be below the limit reference point or proxy (small quotas for research or non-target catch of the species in other fisheries are permissible).

References

Standard clause 1.3.2.1.3

Links	
MarinTrust Standard clause	1.3.2.1.3, 1.3.2.1.4
FAO CCRF	7.2.1, 7.22 (e), 7.5.3
GSSI	D3.04, D6.01

<b>A4</b>	Stock Status - Minimum Requirements  A4.1 The stock is at or above the target reference point, OR IF NOT:							
A4								
		The stock is above the limit reference point or proxy and there is evidence that a fall below the limit reference point would result in fishery closure OR IF NOT:						
		The stock is estimated to be below the limit reference point or proxy, but fishery removals are prohibited.						
		Clause outcome:						



A4.1 The stock is at or above the target reference point, OR IF NOT:					
The stock is above the limit reference point or proxy and there is evidence that a fall below the limit reference point would result in fishery closure OR IF NOT:					
The stock is estimated to be below the limit reference point or proxy, but fishery removals are prohibited.					
References					
Links					
MarinTrust Standard clause	1.3.2.1.4				

7.2.1, 7.2.2 (e)

D6 01

#### **CATEGORY B SPECIES**

**FAO CCRF** 

**GSSI** 

Category B species are those which make up greater than 5% of landings in the applicant raw material, but which are not subject to a species-specific research and management regime sufficient to pass all Category A clauses. If there are no Category B species in the fishery under assessment, this section can be deleted.

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

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

It is possible for a Category B species to have some biomass and fishing mortality data available. When sufficient information is present, the assessment team should use the following risk matrix to determine whether the species should be recommended for approval.

TABLE B(A) - F, 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
	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 longterm average (Stock is subject to overfishing)

#### 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. For details of the approach, please refer to Appendix A. Determining the resilience provides a basis for estimating the risk that fishing may pose to the long-term sustainability of the stock. Table B(b) should be used to determine whether the species should be recommended for approval.

Table B(B) - No reference points available. B = CURRENT BIOMASS;  $B_{AV} = LONG$ -TERM AVERAGE BIOMASS; F = CURRENT FISHING MORTALITY;  $F_{AV} = LONG$ -TERM AVERAGE FISHING MORTALITY.

B > B <sub>av</sub> and F < F <sub>av</sub>	Pass	Pass	Pass	Fail
B > Bav and F or Fav unknown	Pass	Pass	Fail	Fail
B = B <sub>av</sub> and F < F <sub>av</sub>	Pass	Pass	Fail	Fail
B = Bav and F or Fav unknown	Pass	Fail	Fail	Fail
B > B <sub>av</sub> and F > F <sub>av</sub>	Pass	Fail	Fail	Fail
B < B <sub>av</sub>	Fail	Fail	Fail	Fail
B unknown	Fail	Fail	Fail	Fail
Resilience	High	Medium	Low	Very Low

#### **Assessment Results**

Spe	cies Name				
<b>B1</b>	Species Name				
DI	Table used (Ba, Bb)				
	Outcome				
Refere	References				
Links	Links				
Marin	Trust Standard clause	1.3.2.2, 4.1.4			
FAO CO	CRF	7.5.1			
GSSI		D.5.01			

### **CATEGORY C SPECIES**

In a whole fish assessment, Category C species are those which make up less than 5% of landings, but which are subject to a species-specific management regime. In most cases this will be because they are a commercial target in a fishery other than the one under assessment.

Clause C1 should be completed for **each** Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it may be assessed as a Category D species instead, EXCEPT if there is evidence that it is currently below the limit reference point.

<b>5</b> pe	ecies	Name					
<b>C1</b>	Categ	ory C Stock Sta	atus - Minimum Requirements				
CI	C1.1	Fishery remo	ovals of the species in the fishery under assessment are included in the stock assessment				
	process, OR are considered by scientific authorities to be negligible.						
	C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit						
		reference po	oint (or proxy), OR removals by the fishery under assessment are considered by scientific				
		authorities t	o be negligible.				
			Clause outcome:	·			
proxy	proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.  References						
Refer		movals by the	e fishery under assessment are considered by scientific authorities to be negligible.	oint (or			
Refer		movals by the	e fishery under assessment are considered by scientific authorities to be negligible.	oint (or			
Links	ences	movals by the		oint (or			
Links	ences nTrust S			oint (or			



#### **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.

D1	Species Name			
	Productivity Attribut	е	Value	Score
	Average age at maturity (years)			
	Average maximum age (years)			
	Fecundity (eggs/spawning)			
	Average maximum size (cm)			
	Average size at maturity (cm)			
	Reproductive strategy			
	Mean trophic level			
			<b>Average Productivity Score</b>	
	Susceptibility Attribu	te	Value	Score
	Availability (area overlap)			
	Encounterability (the position of the s	tock/species		
	within the water column relative to the	ne fishing gear)		
	Selectivity of gear type			
	Post-capture mortality			
			Average Susceptibility Score	
		PS.	A Risk Rating (From Table D3)	
			Compliance rating	
	Further justification for susceptibility For susceptibility attributes, please pri uncertainty affecting your decision			e there may be
Refere	nces			
Stando	ard clauses 1.3.2.2			



# Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)	
Average age at maturity	<5 years	5-15 years	>15 years	
Average maximum age	<10 years	10-25 years	>25 years	
Fecundity >20,000 eggs per year		100-20,000 eggs per year	<100 eggs per year	
Average maximum size	<100 cm	100-300 cm	>300 cm	
Average size at maturity	<40 cm	40-200 cm	>200 cm	
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer	
Mean Trophic Level	<2.75	2.75-3.25	>3.25	

Susceptibility attributes	lity Low susceptibility (Low risk, score = 1) Medium susceptibility (medium risk, score = 2)			High susceptibility (high risk, score = 3)		
Areal overlap (availability) Overlap of the fishing effort with the species range	<	10% overlap	10-	30% overlap	>30% overlap	
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	fi	Low overlap with fishing gear (low encounterability).  Medium overlap with fishing gear (high encounterability).  Default score for target species		ng gear (high unterability). ult score for		
Selectivity of gear type Potential of the gear to retain species		Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught
		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	c	vidence of majority eleased post- apture nd survival.	rele	dence of some eased post-capture I survival.		ined species or prity dead when ised.



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

ecies Name				
Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements				
D4.1 The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.				
D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.				
	Outcome:			
•	shery on this species are considered during the management proces			
	The potential impacts process, and reasonab There is no substantia species.			

D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.

#### References

Links		
MarinTrust Standard clause	1.3.2.2, 4.1.4	
FAO CCRF	7.5.1	
GSSI	D.5.01	



#### **FURTHER IMPACTS**

The three clauses in this section relate to impacts the fishery may have in other areas. A fishery must meet the minimum requirements of all three clauses before it can be recommended for approval.

<b>F1</b>	Impacts on ETP Species - Minimum Requirements					
	F1.1 Interactions with ETP species are recorded.					
	<b>F1.2</b> There is no substantial evidence that the fishery has a significant negative effect on ETP species.					
	F1.3	3 If the fishery is known to interact with ETP species, measures are in place to minimise mortality.				
Clause outcome:						
F1.1 Interactions with ETP species are recorded.						
F1.2 There is no substantial evidence that the fishery has a significant negative effect on ETP species.  F1.3 If the fishery is known to interact with ETP species, measures are in place to minimise mortality.  References						
Links						
Mari	MarinTrust Standard clause 1.3.3.1					
FAO	CCRF	7.2.2 (d)				
GSSI	D4.04, D.3.08					

F2.1	<b>F2.1</b> Potential habitat interactions are considered in the management decision-making process.				
<b>F2.2</b> There is no substantial evidence that the fishery has a significant negative impact on physical					
	habitats.				
F2.3	If the fishery is known to interact with physical habitats, there are measures in place to minimise				
	and mitigate negative impacts.				
	Clause outcome:				

F2.2 There is no substantial evidence that the fishery has a significant negative impact on physical habitats.

F2.3 If the fishery is known to interact with physical habitats, there are measures in place to minimise and mitigate negative impacts.

References

Links	
MarinTrust Standard clause	1.3.3.2
FAO CCRF	6.8
GSSI	D.2.07, D.6.07, D3.09

F3	Ecosystem Impacts - Minimum Requirements				
13	F3.1	F3.1 The broader ecosystem within which the fishery occurs is considered during the management			
		decision-making process.			
	<b>F3.2</b> There is no substantial evidence that the fishery has a significant negative impact on the marine				
		ecosystem.			
	F3.3	If one or more of the species identified during species categorisation plays a key role in the marine ecosystem, additional precaution is included in recommendations relating to the total permissible			
		fishery removals.			
		Clause outcome:			

- F3.1 The broader ecosystem within which the fishery occurs is considered during the management decision-making process.
- F3.2 There is no substantial evidence that the fishery has a significant negative impact on the marine ecosystem.
- F3.3 If one or more of the species identified during species categorisation plays a key role in the marine ecosystem, additional precaution is included in recommendations relating to the total permissible fishery removals.

References			
Links			
MarinTrust Standard clause	1.3.3.3		
FAO CCRF	7.2.2 (d)		
GSSI	D.2.09, D3.10, D.6.09		

#### **SOCIAL CRITERION**

In addition to the scored criteria listed above, applicants must commit to ensuring that vessels operating in the fishery adhere to internationally recognised guidance on human rights. They must also commit to ensuring there is no use of enforced or unpaid labour in the fleet(s) operating upon the resource.



### Appendix A - Determining Resilience Ratings

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, tm and tmax 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 <sub>max</sub> (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 <sub>m</sub> (years)	< 1	2 - 4	5 - 10	> 10
t <sub>max</sub> (years)	1 - 3	4 - 10	11 - 30	> 30

[Taken from the FishBase manual, "Estimation of Life-History Key Facts", http://www.fishbase.us/manual/English/key%20facts.htm#resilience]



# Glossary

**Non-target**: Species for which the gear is not specifically set, although they may have immediate commercial value and be a desirable component of the catch. OECD (1996), Synthesis report for the study on the economic aspects of the management of marine living resources. AGR/FI(96)12

**Target:** In the context of fishery certification, the target catch is the catch of stock under consideration by the unit of certification – i.e. the fish that are being assessed for certification and ecolabelling. (GSSI)