

# MarinTrust Improver Programme: Annual milestone report template

In this document the applicant should outline progress made towards the actions listed in the Fishery Action Plan (FAP) as part of the Fishery Improvement Project (FIP). This should be aligned with the MarinTrust Assessment criteria where possible. The progress actions should be updated in the following tables, and the relevant evidence linked to. It is important that evidence documents are publicly available. This will then be verified by the peer reviewers based on evidence submitted by the applicant.

#### This report should include an update on all actions outlined in the Fishery Action Plan, even if no demonstrable progress has been made since the last report.

FIP name	Small Pelagics Sustainability - Ecuador
	5

# **Template guidelines**

To help ensure the review process can be carried out effectively and efficiently:

- Include specific citations to the evidence that substantiates it. This should include the exact page numbers and paragraph references where the evidence can be found.
- Where possible, include a hyperlink to any evidence referenced.
- Ensure that the supporting evidence documents are easily accessible and wellorganised. They should be available in a format that allows for easy navigation, such as a table of contents, bookmarks, or an index.
- Use clear and concise language when referring to evidence to make it easy for readers to grasp why a particular piece of evidence supports a specific progress claim.

Note: MarinTrust will host all evidence documents on the MarinTrust FIP profiles. If there are any confidential and or draft documents that the applicant does not want made public, this should be made clear in the report.



# **IP Milestone report**

Use the below tables to provide an update on actions in the Fishery Action Plan with links to relevant evidence documents. Additional lines may be added where necessary.

#### Example table

MT clause	Action in	Action update /	Outstanding actions	Evidence	Status of	Additional
(if relevant)	plan	progress made	and rationale		action	comments
M1.1	Provide		Provide any	Provide a url link to any	What is the	Provide any
M1.2	the		outstanding aspects to	evidence and summarise	current status	additional
	original	Provide an	this action and explain	relevant points for actions or	of this action	information
Add rows to	action as	update on this	why they are	updates. If evidence is not	(i.e. complete,	here.
each table	outlined	action since the	outstanding.	publicly available, include a	pending,	
as	in the	last report.		copy in the evidence pack.	ongoing)	
necessary	action					
	plan.					

#### M – Management Framework and Surveillance, Control and Enforcement

MT clause (if relevant)	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Status of action	Additional comments



#### A – Category A: Data Collection, Stock Assessment, Harvest Strategy and Stock Status

MT claus e	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Status of action	Addit ional com ment s
A1	<ol> <li>Strengthen the sources that input to the catch estimation</li> </ol>	<ul> <li>1.1 Strengthen the Responsible</li> <li>Fishing participatory monitoring</li> <li>program</li> <li>In the period from January to</li> <li>September 2024, 1,511 records of</li> <li>sets and releases have been</li> <li>accumulated, recorded by 19</li> <li>vessels in the participatory</li> <li>monitoring program (PPR): 1,306</li> <li>records of sets (catch composition)</li> <li>and 205 records of releases of</li> <li>marine megafauna.</li> <li>A total of 20,151.48 metric tons of</li> <li>catch corresponding to 1,306 sets</li> <li>have been accumulated, including</li> <li>geographic information, dates, sizes</li> <li>and stages of maturity.</li> <li>During 2024, the interaction and</li> <li>release of 736 individuals has been</li> <li>recorded, 53% of which were sea</li> <li>lions. Interactions and releases of</li> </ul>	As part of the improvement processes to the PPR records, the catch composition form was modified, including fields such as: discard, presence of the observer on board and daily arrival date. The new form was socialized in the reinforcements developed in July 2024, it was distributed to the fleet chiefs digitally to implement its use in the records. In addition, new versions of the PPR guides and manuals were prepared: on- board sampling manual, marine fauna identification guide, small pelagic fish identification guide, marine fauna release guide and the marine fauna species poster. Likewise, the new inputs were distributed digitally and the on-board sampling manuals and the marine fauna release guide were distributed in their physical	Evidence: New Forms and manuals https://drive.google.c om/drive/folders/1F mOfYhZkkTAw9J aZV SLe1evK rpkDap?usp =drive_link Responsible fishing program 2024 report https://drive.google.c om/file/d/1svJrTCUu ezTc3oKhEVbaNBXZC yD07p86/view?usp=d rive_link 2024 trainings report https://drive.google.c om/drive/folders/10 K iKVioz_VQzQGbyfK	Ongoing	



A2-A4       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the scossider of the scossidered the scossider of the scossider of the scossider of							GAITAG
A2-A4       2. Review stock assessment models       Per review of new assessment model has considered that the diagnosis by the reviewer is that the stock       Per review concluded that the diagnosis by the reviewer is that the stock       Per review concluded that the diagnosis by the reviewer is that the stock       Per review concluded that the diagnosis by the reviewer is that the stock       Per review concluded that the diagnosis (2024)       Per review concluded that the diagnosis (2024)				· · · · · · · · · · · · · · · · · · ·	version, delivering two copies per vessel	Nj1IPXVVd06Bl?usp=	
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A2-A4       2. Review stork assessment models       Peer review concluded that the diagnosis of the considered the stores of the point of stores assessment model has considered the stores of				Lepidochelys olivacea, 13 Chelonia	ships were also supplied with other		
A2-A4       2. Review stock assessment model has considered the inchryometer, difference between total and furcal length) and sessament model has considered the inchryometer, difference between total and furcal length) and sessament model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the inchryometer, difference by the reviewer is that the stock is assessment model has considered the is assessment model has consi				mydas.	materials for on-board recording, such as		
A2-A42. Review stord assessment models2. Review stord assessment models2. Review stord assessment models2. Review stord assessment2. Review stord assessmentPeer review concluded that the diagnosis of the goodness of fit for the results of the stores				In addition, 4 reinforcement	digital scales, balances and ichthyometers.		
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A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review of new assessment model has considered the stock of the goodness of fit for the results of the goodness of the goodnese goodnes goodness of the goodnese goodness of the good				46 crew members from 25 vessels	collected was key to the discussion of the		
A2-A4       2. Review stock assessment models       2. Review stock assessment models       2. Review stock assessment models       Peer review of new assessment model has considered the       Peer review of new assessment model has considered the         A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review of new assessment model has considered the       Peer review of new assessment model has considered the       Peer review report. Cupillos & Cuevas (2024)       Complet ed				participated. The reinforcement	2024 juvenile ban with the fisheries		
A2-A4       2. Review stock assessment models       2. Peer review of new assessment model has considered the is that the stock       Peer review concluded that the diagnosis of the cubillos & Cuevas (2024)       Peer review report. Cubillos & Cuevas (2024)       Complet				sessions focused on reviewing the	authority at the sectoral dialogue table.		
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A2-A4       2. Review stock assessment models       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the goodn				dissemination of the new PPR			
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A2-A4       2. Review stock assessment models       2. Review stock assessment models       2. Review stock assessment models       Peer review of new assessment model has considered the stock assessment model has c				new catch composition sheet from			
A2-A4       2. Review stock assessment models       Peer review of new assessment model has considered the for the results of the goodness of fit for the results of the goodness of fit for the results of the assessment model has considered the for the review report.       Peer review report. Cubillos & Cuevas (2024)       Complet ed				July 2024, and the record of the			
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A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the goodness of fit				Mobulidae family was also			
A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the assessment model has considered the assessmen				reviewed. In particular, emphasis			
A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the goodness of fit				was placed on the correct			
A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the goodness of the goodness of fit for the results of the goodness of the goodness of fit for the results of the goodness of fit for the results of the goodness of fit for the results of the goodness of the g				measurement of fish sizes (use of			
A2-A4       2. Review stock assessment models       2. Review stock assessment models       Peer review concluded that the diagnosis of the goodness of fit for the results of the goodness of the goodness of fit for the results of the goodness				the ichthyometer, difference			
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A2-A4 2. Review stock assessment by the reviewer is that the stock assessment models by the reviewer is that the stock by the reviewer is the stock by the reviewer is that the stock by the reviewer is th				sexual stages.			
AZ-A4 assessment models Among the main comments made of the goodness of fit for the results of the Cubillos & Cuevas ed by the reviewer is that the stock assessment model has considered the (2024)		2	Review stock	2.2. Peer review of new assessment	Peer review concluded that the diagnosis	Peer review report.	Complet
by the reviewer is that the stock assessment model has considered the (2024)	A2-A4	۷.		Among the main comments made	of the goodness of fit for the results of the	Cubillos & Cuevas	ed
inoueis accossment was carried out with a recommendations of provious reviews				by the reviewer is that the stock	assessment model has considered the	(2024)	
assessment was carried out with a recommendations of previous reviews,			models	assessment was carried out with a	recommendations of previous reviews,		



						DEILED	
			population approach and used the	and given the continuous improvement of	https://drive.google.c		
			stock assessment model called	the model, this review concludes that the	om/file/d/1ZAjZWoqI		
			MESTOCKT, which is an age-	assessment of the pelagic fish resources of	<u>MmlgjDtlrrxzqUU</u>		
			structured model that stands out for	Ecuador is being carried out under a high	K6n3pc/view?usp=dri		
			its flexibility to adapt to the available	standard. As a final point, a series of new	ve link		
			data for each resource. This allowed	improvements to the model are proposed			
			considering different scenarios in its	in the short, medium and long term			
			performance to adjust to the	periods, which IPIAP technicians will take			
			observed data, based on the	into consideration.			
			imposed structural restrictions. In				
			this context, the use of selectivity				
			blocks to explain the size				
			composition data observed in the				
			acoustic survey and the fishery was				
			highlighted. The reviewer also				
			highlighted that the possibility of				
			penalizing the catchability of the				
			assessment cruise has been				
			incorporated into the new				
			scenarios, in order to avoid				
			interannual re-scaling in its				
			estimation.				
			3.1 Implement a responsible	The definition of this policy will be a	Policy draft	Ongoing	The
	3.	0	purchasing policy for whole	milestone in the industry as it will be the	https://docs.google.c		action
		the	fisheries that includes a mechanism	first of its kind.	<u>om/document/d/1Ef</u>		is still
		transparency	for verifying compliance with		M7u9iyDaQ8iLRygIXF		under
A3		of raw	responsible sourcing.		ZF9aqHcZK3gd/edit?		develo
		materials	A first draft of a purchasing policy		usp=sharing&ouid=1		pment
		flow in the	has being developed and is		<u>12572111827130877</u>		given
		supply chain	currently under consultation period		547&rtpof=true&sd=		the
			by FIP members.		<u>true</u>		need

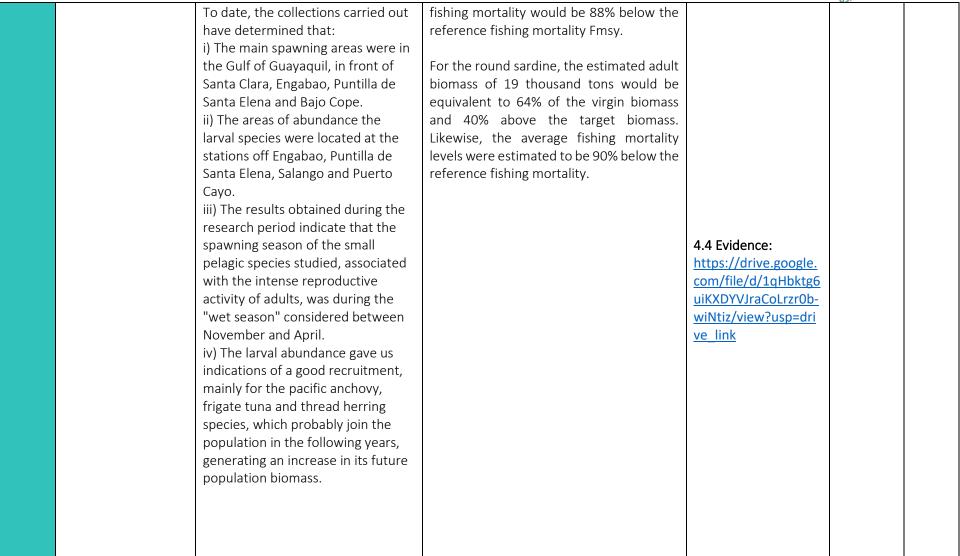


						for the
						propo
						sal to
						be
						review ed by
						the
						FIP
						memb
						er
						compa
						nies.
		4.1Strengthen closed seasons	A summary of the stock status shows that	4. Stock assessment	Ongoing	
		design aligned with maximum	on average and for the six species	Canales C. M., V.	0.90.19	
		reproductive and recruitment	analyzed, the status indicator B/BMSY has	Jurado (2024)		
		periods.	increased steadily, reaching a value 1.51			
			higher than the target (B/BMSY=1.0), while	https://drive.google.c		
4.	Design a	Between July and August 2024, the	the fishing mortality ratio F/FMSY shows	om/file/d/1n8DKfCYt		
4.	recovery	ban on small pelagic juveniles was	that the fishery does not show evidence of	oD77VkXVVR45TOKw		
	plan for	defined, using information from the	overfishing in any of the species analyzed	<u>QsHqFCqq/view?usp</u>		
	frigate tuna	monitoring of the on-board	(F/FMSY=0.45).	<u>=drive_link</u>		
	annexed to	observer program, as well as				
	the fishery	complementing information with	The stock assessment carried out on the	4.1.1 MPCEIP-SRP-		
	managemen	the participatory monitoring of the	frigate tuna resource were characterized	2024-0222-A_24jul		
	t plan	fleet participating in the PPR.	by an unprecedented estimate of a	https://drive.google.c		
	I		sexually mature ogive whose size at first	om/file/d/1weXQw1		
			maturity was calculated to be smaller than	MhJCkosyKYNFJCRW		<b>A</b>
		4.3 Implement adaptive	the size used until now, which had	a8W1MwP3JZ/view?		Action
		management strategies	implications in the diagnosis of the	<u>usp=drive_link</u>		4.3 is
		There is a proposal for technical	resource. The population assessment			still in
		assistance still under revision.	determined an estimate of adult biomass		]	develo



				DELLO	
		of 74 thousand tons, that is, 7% above the	4.1.2 MPCEIP-SRP-		pment
	4.4 Monitoring eggs and larvae to	reference biomass, and fishing mortality	2024-0233-A_23Ag		, work
	determine periods and zones of	levels below the reference fishing	https://drive.google.c		was
	reproductive activity.	mortality.	om/file/d/1oUeG1R8		being
-	Through the initiatives proposed by		tDEMX5rvbusQLm9z		done
t	the SPS-FIP, the monthly	For its part, in thread herring, the adult	AnfTWpOir/view?usp		on
	monitoring program of fish eggs	biomass was estimated at around 86	<u>=drive_link</u>		puttin
	and larvae on board vessels	thousand tons, and is equivalent to 49% of			g
	associated with the SPS-FIP	the virgin biomass and 23% above the			togeth
	companies was implemented at	target biomass. Fishing mortality is			er a
	nine stations along the Ecuadorian	estimated to be 82% below the reference			techni
	coast. This program began in	fishing mortality Fmsy.			cal
	October 2021, and to date, an				team
	average of 399 681 eggs/10m2 and	For chub mackerel, the adult biomass			and a
	204 320 larvae/10m2 have been	estimated at 352 thousand tons is			propo
	recorded. From this project, it has	equivalent to 38% of the virgin biomass,			sal,
	been possible to establish the times	although fishing mortality is estimated to			which
	and areas of abundance of	be 64% below the reference fishing			took
	spawning and larval rearing of	mortality.			longer
	Cetengraulis mysticetus (Pacific				than
	anchovy), Auxis sp. (frigate tuna),	The shortfin scad assessment estimated a			expect
	Scomber japonicus (chub mackerel),	biomass of 52 thousand tons, equivalent			ed.
	Etrumeus acuminatus (Red-eye	to 87% of the virgin biomass, and fishing			
	round herring), and Opisthonema	mortality levels 19% below the reference			
	spp. (Pacific thread herring).	fishing mortality.			
-	The purpose of the Project is to	Pacific anchovy, the estimated adult			
	provide an additional measure for	biomass of close to 87 thousand tons is			
1	the analysis of the periods of	estimated to be equivalent to 90% of the			
	reproductive and recruitment ban.	virgin biomass, while the low levels of			

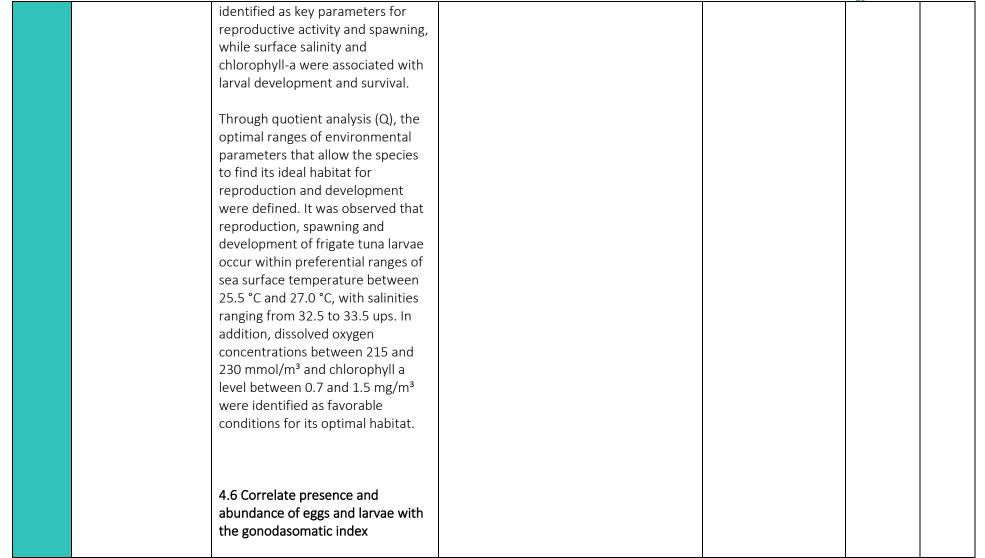




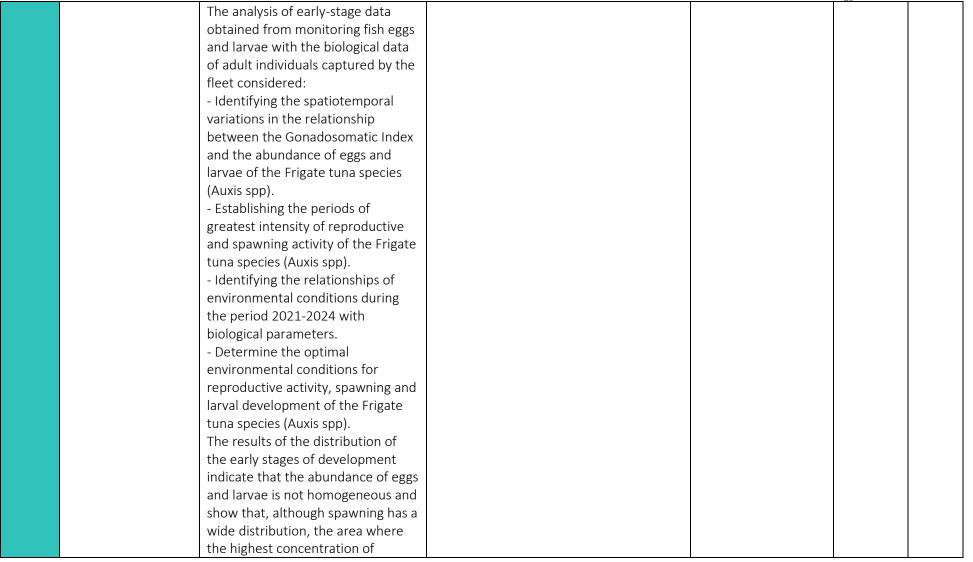


		DELIZED.	
4.5 Correlate presence and	4.5-4.6 Evidence:		
abundance of eggs and larvae with	https://drive.google.		
oceanographic conditions	<pre>com/drive/u/1/folde</pre>		
The study on the analysis of early-	<u>rs/1a2U-M-</u>		
stage data obtained from	tGJOlgpHkxZR5pY0sE		
monitoring fish eggs and larvae	GbQva6FF		
with the biological data of adult			
individuals of the Frigate tuna			
captured by the fleet also covers:			
- Identify the relationships of			
environmental conditions during			
the period 2021-2024 with			
biological parameters.			
- Determine the optimal			
environmental conditions for			
reproductive activity, spawning and			
larval development of Auxis spp.			
The analyses carried out on the			
Frigate tuna resource associated			
with environmental conditions			
showed that the variables most			
related to reproductive activity			
(gonadosomatic index of adults)			
and spawning (fish eggs and larvae)			
were sea surface temperature (°C),			
surface salinity (ups), dissolved			
oxygen concentration (mmol/m <sup>3</sup> )			
and chlorophyll-a (mg/m³). In			
particular, sea surface temperature			
and dissolved oxygen were			

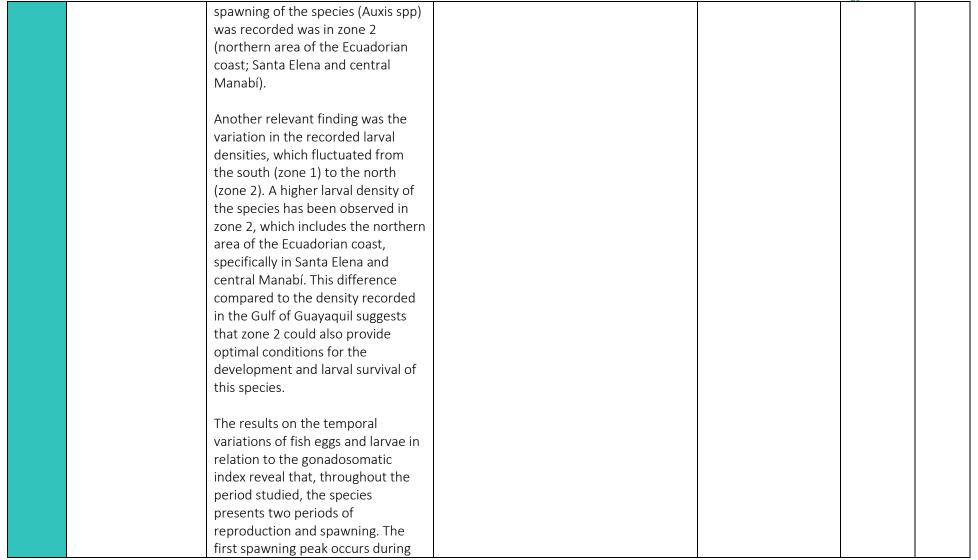














the first quarter of the year (January, February and March), while the second, less intense, peak occurs in the third quarter. In addition, slight variations are observed in the months in which reproductive activity takes place, these associated with the environmental conditions recorded during the study period.		
<ul> <li>4.7 Training the crew to identify reproductive activity.</li> <li>During the training sessions carried out in February for the small pelagic fleet, the topics addressed included: a) reproduction and life cycles, b) determination of size and/or age of maturity and c) principles and importance of closed seasons. Likewise, in the reinforcement sessions carried out in July, emphasis was placed on the correct identification of sexual stages. Photographic material of</li> </ul>	<b>4.7 Evidence:</b> https://drive.google.c om/drive/folders/1hE JNzRENq_ZcwXGUZT EggV3npoEjUL5N?us p=drive_link	



	has served as input for the training sessions carried out and as feedback to the crew.		021-	



# B – Category B Stock Status

MT clause (if relevant)	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Status of action	Additional comments

# C – Category C Stock Status

MT clause (if relevant)	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Status of action	Additional comments

# D – Impacts On Species Categorised as Vulnerable by D1-D3



MT clause (if relevant)	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Status of action	Additional comments

# F – Impacts on ETP Species, Impacts on Habitats and Ecosystem Impacts

MT clause (if relevant)	Action in plan	Action update / progress made	Outstanding actions and rationale	Evidence	Additional comments

SOCIAL CRITERION



MT clause (if relevant)		Outstanding actions and rationale	Evidence	Status of action	Additional comments

#### Additional Information

The following section is for any information provided by the fishery in support of this Milestone Report which does not relate directly to any of the Milestones above, but which is relevant to the ongoing monitoring of fishery management status.

#### Amended timeline

The following section allows the applicant to explain if there are any amendments to the improvement timelines and provide the reasons and evidence for this. This should reference the specific actions as outlined in the progress report.

FIP staff is still analyzing MarinTrust v3.0 in order to determine the potential requirement of action plan amendment in the next -progress report