



REPORT OF THE ACCOBAMS MMO/PAM WORKING GROUP

REPORT OF THE ACCOBAMS MMO/PAM WORKING GROUP***Léa DAVID****“Feedback from trainings realised and proposal for improvements of the training and associated doc”**Online meeting - 25th March 2021

The aim of the online meeting was:

- to get agreements of the group on **what** to improve about the training, the associated documents and new formats to be developed
- **how** to realise the different points agreed,
- **who** can get involved in which tasks.

The objective was to identify responsible people for different tasks amongst members of the working group.

The agenda is presented in Annex 1 and list of participants in Annex 2.

The different tasks discussed during the meeting are indicated in the program of work presented below, with the indication of the person in charge for each task.

PROGRAM OF WORK SPRING 2021

From the ACCOBAMS MMO/PAM working group meeting

“Feedback from trainings realised and proposition for improvements of the training and doc associated”

Based on the reports outputs of the Online meeting - 25th of March 2021

	Question raised	What/how?	Who?	Deliverable	Follow up (Ongoing/done)
The training	what is the meaning of “highly qualified”?	We delete the words – ACCOBAMS “certified”	Léa + Maylis	New resolution	
	pre-requisite for candidate?	1) Delete (=> strengthen and standardise the exam) 2) Create a standardised exam	1) Léa 2) Patrick + Barbara (+agreed trainers)	Standardised exam	
	MMO/PAM as separate modules?	Best both skills? => survey for those who employed MMO/PAM Think about a “new” format: basic and advanced course? Different modules? Ex : Mitigation “common” module / MMO module / PAM (beginner) module ; number of days, how many in classroom and/or at sea...	- Marine + Ross (survey of needs) - Caterina + Patrick + Barbara + IOGP + IAGC + Léa + trainers	Proposition of a new format for the training	
	duration and place for “introduction to PAM”: at sea? more classroom with playback?	More classroom Optimal duration (has to be defined based on the new format of the training – see above)			
	create a feed-back questionnaire about the training for the trainees?	Agree Feedbacks should be sent to trainers and “ACCOBAMS”	Patrick + Léa	Feedback questionnaire	
	These changes lead to revise the Resolution (to be adopted by Parties in 2022)	Gather all changes (above) and revise the resolution accordingly	Léa + Maïlis	New resolution	
	Standardisation of acoustic instrumentation/equipment, training	Need more discussion between trainers! Use NECCOBAMS (new web site will be launched soon)	Léa + Maïlis	Operational MMO/PAM group on NETCCOBAMS for	

	schedule...? => cooperation not competition between trainers			chat/exchanges and doc storage	
The documents	Improving the forms, a balance between standard and simplification	balance between standard and simplification compare with other forms	Patrick + Barbara + Ross	New forms	
	provide specific definition of behaviour for the different species	Visual + acoustic (introduce them in the relevant course)	Léa + Caterina	Paragraph defining standard behaviour (visual + acoustic)	
	update the different chapters of the courses <ul style="list-style-type: none"> ➤ 1 (presentation of the certificate) ➤ 2 (intro to acoustics) ➤ 3 (marine mammal and acoustics) ➤ 4 (human activities generating noise) ➤ 5 (regulations and ACCOBAMS guidelines) ➤ 6A (role of MMO/PAM) ➤ 6B (PAM and Pamguard) ➤ 7 (life onboard) 	<ul style="list-style-type: none"> ➤ Chapter 1: Update the new rules for the certificate ➤ All chapters: Update new references from literature and from standards (see also the doc presenting the comments from IOGP + IAGC) 	IOGP + IAGC 1) Léa 2) Gianni, Claudio, Alessio 3) Alessio, Caterina 4) Alessio 5) Léa + Alessio 6A) Léa 6B) Patrick 7) Patrick	All chapters updated	
	plan a schedule/process for updating/reviewing the documents and monitor standards	Who ? when ? where ? what ?	Léa + IOGP + IAGC	Description of a schedule/process for updating/reviewing the documents and monitor standards	
To be develop	content for a short course for already trained/experienced MMO/(PAM)	To be done after some previous changes above (should be ready to be launch this summer?) Mitigation + species specific to ACCOBAMS area should be the focus (+ specific exam ?)	Patrick + Léa	content for a short course for already trained/experienced MMO/(PAM)	
	Remote course for the complete training	Think about how to propose a training with separate theoretical and practical parts	Barbara	Proposition of a format	
	remote version of the short course (with presence of trainer with PPT)	Remote feasibility: comparing existing Platforms (Moodle, Canvas, Zoom, etc) about cost, easy to use, capacity...	Léa + Caterina + Patrick	A table comparing relevant parameters for each of the relevant platforms	

	section in the course about best practice after the training to get a job?	Linked to relevant chapter in the course	Patrick	Paragraph on “best practice after the training to get a job”	
Other points	more awareness for countries/industrials for at least 1 ACCOBAMS certified MMO/PAM in each “mitigation” team and one person from the country where the survey take place	Raise awareness for competent authorities which give permit/ Focal point => com’ campaign. Be sure there is a pool of ACCOBAMS certified people	Léa + Maÿlis	Communication plan	
	Guidelines on Soft-start, number of MMO required, ...for the JNWG!	Create some specific guidelines for MMO/PAM? Points to forward to the JNWG?		Identify the way of sending comments to the JNWG and send comments to the JNWG	

Working documents available in the google file:

- 1) Feedback from trainers who have implemented the training for the “High quality ACCOBAMS MMO/PAM certificate” and comments from members of the ACCOBAMS MMO/PAM WG
- 2) Comments on the courses content from IOGP and IAGC
- 3) Propositions for a short course for already trained MMO/(PAM), remote/online version

ANNEX1 - AGENDA

10h00	Greetings and presentation (round "table")
	<p>The training:</p> <ul style="list-style-type: none"> - MMO/PAM as separate modules? - duration and place for PAM: at sea? more classroom with playback? - pre-requisite for candidate? - what is the meaning of "highly qualified"? - create a feed-back questionnaire about the training for the trainees?
	<p>The documents:</p> <ul style="list-style-type: none"> - Improving the forms, a balance between standard and simplification - provide specific definition of behaviour for the different species - update the different chapters of the courses - plan a schedule/process for updating/reviewing the documents and monitor standards
	<p>To be develop:</p> <ul style="list-style-type: none"> - content for a short course for already trained MMO/(PAM) - remote version of the short course (with presence of trainer with PPT) - section in the course about best practice after the training to get a job?
	<p>Other points :</p> <ul style="list-style-type: none"> - more awareness and pressure on countries/industrials for at least 1 ACCOBAMS certified MMO/PAM in each "mitigation" case - Guidelines on Soft-start, number of MMO required, ...for the JNWG !
12h00	Closure and acknowledgements

ANNEX2 - LIST OF PARTICIPANTS

Name	Institution
Léa DAVID (Leader)	EcoOcéan Institut
Patrick LYNE	DMAD
Caterina LANFREDI	Tethys Research Institute
Alessio MAGLIO	SINAY
Barbara MUSSI	Oceanomare Delphis Onlus
Marine JULLIAND	Total Energy
Wendy BROWN, Sureiya Pochee	International Organisation of Oil&Gas producers (IOGP)
Ross COMPTON	International Association of Geophysical Contractors (IAGC)