



**ACCOBAMS Course for Highly Qualified
Marine Mammals Observers (MMO)
Passive Acoustic Monitoring operators (PAM)**

***Nave Blu, Acquario di Genova, Italy
24-29 November 2025***

Program

24th November 2025

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| 9.00 – 9.15 | Welcome from the Organizational Committee |
| 9.15 – 10.15 | The MMO - PAM certificate of ACCOBAMS, existing regulations and ACCOBAMS guidelines.
<i>Barbara Mussi</i> |
| 10.15 – 11.00 | Introduction to underwater acoustics and its applications
<i>Claudio Fossati</i> |
| 11.00 – 11.30 | Coffee break |
| 11.30 – 13.00 | Introduction to underwater acoustics and its applications
<i>Claudio Fossati</i> |
| 13.00 – 15.00 | Lunch |
| 15.00 – 16.30 | PAM equipment: instruments, setup and some DSP
<i>Giovanni Caltavuturo</i> |
| 16.30 – 17.00 | Coffee break |
| 17.00 – 19.00 | Introduction to marine mammals and acoustics. Cetaceans' biology and distribution in the ACCOBAMS area.
<i>Barbara Mussi</i> |

25th November 2025

9.00 – 11.00	Introduction to marine mammals and acoustics. Cetacean vocalizations and hearings <i>Claudio Fossati</i>
11.00 – 11.30	Coffee break
11.30 – 13.00	Acoustic detections, signal identification and equipment handling <i>Giovanni Caltavuturo</i>
13.00 – 15.00	Lunch
15.00 – 16.30	Field equipment (hydrophones: types, use and installation) <i>Caltavuturo, Fossati, Manghi</i>
16.30 – 17.00	Coffee break
17.00 – 18.30	Filed equipment (hydrophones: types, use and installation) <i>Caltavuturo, Fossati, Manghi</i>

26th November 2024

9.00 – 11.00	Introduction to the role of MMO/PAM operators. Pre-survey phase, survey phase, post-survey phase. <i>Patrick Lyne</i>
11.00 – 11.30	Coffee break
11.30 – 13.00	Introduction to the role of MMO/PAM operators. Cetacean detection, communication with the crew, data entry. <i>Patrick Lyne</i>
13.00 – 15.00	Lunch
15.00 – 16.30	Introduction to the Lifestyle onboard. <i>Patrick Lyne</i>
16.30 – 17.00	Coffee break
17.00 – 18.30	Introduction to Geographic Information System (GIS) to map the acoustic and visual sightings. <i>Barbara Mussi</i>

27th November 2024

- 9.00 – 11.00 Using Pamguard for survey.
Patrick Lyne, Barbara Mussi
- 11.00 – 11.30 Coffee break
- 11.30 – 13.00 Setting and configuration of Pamguard software (Navigation and Sightings).
Patrick Lyne, Barbara Mussi
- 13.00 – 15.00 Lunch
- 15.00 – 16.30 Setting and configuration of Pamguard software (Species Identification).
Patrick Lyne, Barbara Mussi
- 16.30 – 17.00 Coffee break
- 17.00 – 18.30 Hands-on training with PAMGUARD-Tips and troubleshooting.
Patrick Lyne, Barbara Mussi

28th November 2024

- 9.00 – 11.00 Autonomous acoustic bottom recorders
Michele Manghi
- 11.00 – 11.30 Coffee break
- 11.30 – 13.00 The Intercet platform
Guido Gnone
- 13.00 – 14.30 Lunch
- 14.30 – 16.30 Evaluation Test
- 16.30 – 17.00 Coffee break
- 17.00 – 18.30 Practical session (hydrophones: types and use - hands on and practical tests)
Caltavuturo, Fossati, Manghi

29th November 2024

- 9.00 – 11.00 Practical session (hydrophones: types and use - hands on and practical tests)
Caltavuturo, Fossati, Manghi



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| 11.00 – 11.30 | Coffee break |
| 11.30 – 13.00 | Practical session (soundcards and software: specifications and coupling with sound analysis software)
<i>Caltavuturo, Fossati, Manghi</i> |
| 13.00 – 15.00 | Lunch |
| 15.00 – 18.30 | Questions and Answers |