



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

Ischia Island, Italy



L'Albergo della Regina Isabella
★★★★★ *Resort and Health Spa*

16-21 May 2023

Program

16^h May 2023

- 09.00 – 09.15 Welcome from the Organizational Committee
- 09.15 – 09.45 The MMO - PAM certificate of ACCOBAMS.
Barbara Mussi
- 09.45 – 11.00 Introduction to underwater acoustics. What is sound?
Claudio Fossati
- 11.00 – 11.30 Coffee break
- 11.30 – 13.00 Introduction to underwater acoustics. Seismic wave.
Claudio Fossati
- 13.00 – 15.00 Lunch
- 15.00 – 16.30 Introduction to existing regulations and ACCOBAMS guidelines.
Barbara Mussi
- 16.30 – 17.00 Coffee break
- 17.00 – 18.30 Introduction to marine mammals and acoustic. Cetaceans' biology and distribution in the ACCOBAMS area.
Barbara Mussi



17th May 2023

09.00 – 11.00 Introduction to marine mammals and acoustic. Cetacean vocalizations and hearings

Gianni Pavan

11.00 – 11.30 Coffee break

11.30 – 13.00 Introduction to human activities generating impulsive noise.

Gianni Pavan

13.00 – 15.00 Lunch

15.00 – 16.30 Introduction to the role of MMO/PAM operators. Pre-survey phase, survey phase, Post-survey phase.

Patrick Lyne

16.30 – 17.00 Coffee break

17.00 – 18.30 Introduction to the role of MMO/PAM operators. Cetacean detection, communication with the crew, data entry.

Patrick Lyne

18th May 2023

09.00 – 11.30 Introduction to the Life style onboard.

Patrick Lyne

11.30 – 11.30 Coffee break

11.30 – 13.00 Introduction to the role of MMO/PAM operators. Acoustic detection and species identification.

Giovanni Caltavuturo

13.00 – 15.00 Lunch

15.00 – 16.30 Introduction to the role of MMO/PAM operators. Pam on fixed station and seismic vessels.

Giovanni Caltavuturo

16.30 – 17.00 Coffee break

17.00 – 18.30 Introduction to Geographic Information System (GIS) to map the acoustic and visual sightings.

Barbara Mussi



19th May 2023

- 09.00 – 11.30** Using Pamguard for survey.
Patrick Lyne, Barbara Mussi
- 11.30 – 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

20th May 2023

- 09.00 – 17.30** Practice at sea (Instruments, handling, set-up, HW and SW, data logging)

21st May 2023

- 09.00 – 15.00** Practice at sea (Instruments, handling, set-up, HW and SW, data logging)
- 15.00 – 18.00** Evaluation test

Con la collaborazione tecnica di

