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

Sala Nautilus, Acquario di Genova, Italy
16-21 October 2023

Program

16^h October 2023

9.00 – 9.30   Welcome from the Organizational Committee

9.30 – 10.00   The MMO - PAM certificate of ACCOBAMS.
Barbara Mussi

10.00 – 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 – 19.00   Introduction to marine mammals and acoustic. Cetaceans' biology and distribution in the ACCOBAMS area.
Barbara Mussi

17th October 2023

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

Claudio Fossati

11.00 – 11.30   Coffee break

11.30 – 13.00   **Introduction to human activities generating impulsive noise.**

Claudio Fossati

13.00 – 15.00   Lunch

15.00 – 16.30   **Introduction to the role of MMO/PAM operators. Acoustic detection and species identification.**

Giovanni Caltavuturo

16.30 – 17.00   Coffee break

17.00 – 18.30   **Introduction to the role of MMO/PAM operators. Pam on fixed station and seismic vessels.**

Giovanni Caltavuturo

18th October 2023

09.00 –11.30   **Introduction to the role of MMO/PAM operators. Pre-survey phase, survey phase, Post-survey phase.**

Patrick Lyne

11.30 – 11.30   Coffee break

11.30 – 13.00   **Introduction to the role of MMO/PAM operators. Cetacean detection, communication with the crew, data entry.**

Patrick Lyne

13.00 – 15.00   Lunch

15.00 – 16.30   **Introduction to the Life style onboard.**

Patrick Lyne

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 October 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 October 2023

10.00 – 11.30   **Autonomous acoustic bottom recorders**

                        Michele Manghi

11.30 – 11.30   Coffee break

11.30 – 13.00   **The Intercet platform**

                        Guido Gnone

13.00 – 15.00   Lunch

15.00 –17.30   **Evaluation Test**

21st October 2023

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