

## **“Biophony and Anthropophony AI surveys”**

special session T10. OOSC UNOC June 2025 - Nice

### **What key insights emerged from our session that could contribute to the discussion at UNOC3? (500 characters max)**

Ackvaplan Niva and Seaproven presented autonomous vehicles for monitoring biophony and anthropophony, demonstrating novel paradigms and infrastructure for marine mammal surveys and protection.

IMAR, within the EUROPAM Biodiversa consortium, showcased the new real-time sonobuoy AI Bombyx3 project, that is enhancing observation and mitigation of whale and marine traffic collisions.

CIAN presented advances in biosonar analysis and the foraging strategies of marine mammals, offering new insights into how anthropophony pollution impacts megafauna habitats.

In another presentation, CIAN, through the ADAPREDAT and Polarpod missions, provided a synthesis of the interconnections between megafauna and human activities in the Arctic.

The University of Pavia presented the TursiopsNet program, which involves the automatic detection and classification of *Tursiops* vocalizations during depredation events in fishing nets, aimed at mitigating capture risks.

Longitude181 shared the results of several years of Sperm Whale monitoring in the Ligurian/Nice region, concluding with a proposed mitigation measure for marine traffic and whale collisions: a speed limit of 10 knots for vessels over 10 meters, from the coastline to 12 nautical miles offshore. This rule is expected to be implemented in the area (French coast of the Pelagos Sanctuary) following political discussions during UNOC.

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In summary, this conference offered an overview of innovative observatories and methodologies, and proposed guidelines for mitigating anthropophony and reducing whale and marine traffic collisions for a mandatory biodiversity protection.