

BOMBYX Mooring

Profession: Record physical and biological data on the long term, at a fixed point

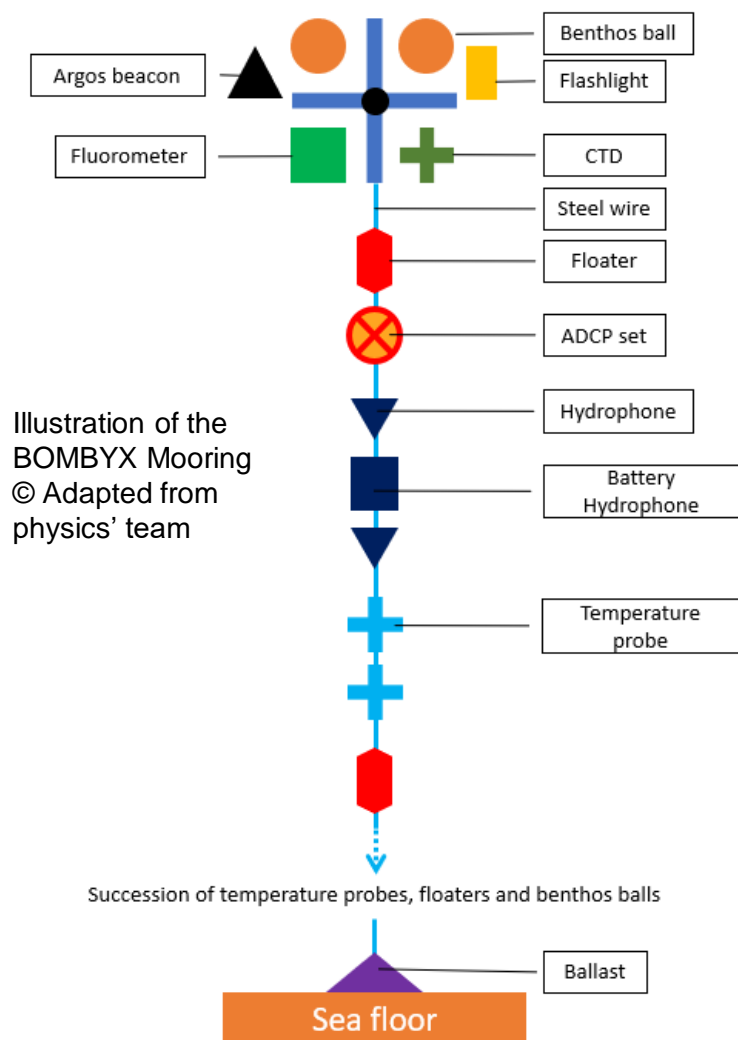
 Ocean fronts & Marine life

 Marseille (FR)

 Underwater

 O(100 K) €

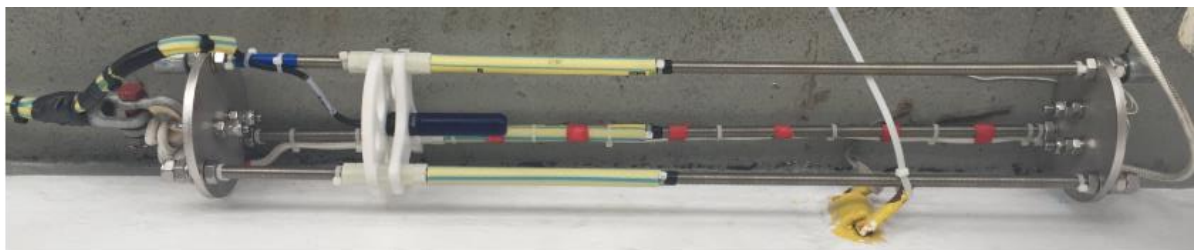
Professional overview



1 km long mooring equipped with :

- **2 Hydrophones** to detect marine mammals by passive acoustics
- **2 ADCPs** (Acoustic Doppler Current Profiler) to monitor the horizontal currents of ocean fronts and zooplankton variability
- **1 CTDs** (Conductimetry Temperature Depth) attached at the surface to survey salinity and temperature gradients
- **9 Temperature probes** at different depths
- **1 Fluorimeter** to measure seawater fluorescence

Hydrophone of BOMBYX © Floriane Sudre



Education

- Inspired by Hervé Glotin
- Designed by Jean-Luc Fuda & Vincent Rossi for the RESILIENCE campaign

Skills highlights

- Deployed by gradually attaching the instruments on the steel wire
- **Autonomous up to 1 year, data collected only after retrieval**
- Control on the periodicity of recording (duty cycle)
- **Mooring released by acoustic signal**

Interests & curiosities

Data collected only after retrieval

Argos tag placed near the surface of the mooring to send a signal when detached

Attached to the bottom thanks to old tramway rails of Marseille

Absence of noises needed to avoid interference with the hydrophone