MULTINET Midi

Profession: Sample zooplankton at different depths

Meso-zooplankton (200µm – 2mm)

Altenholz (DE)

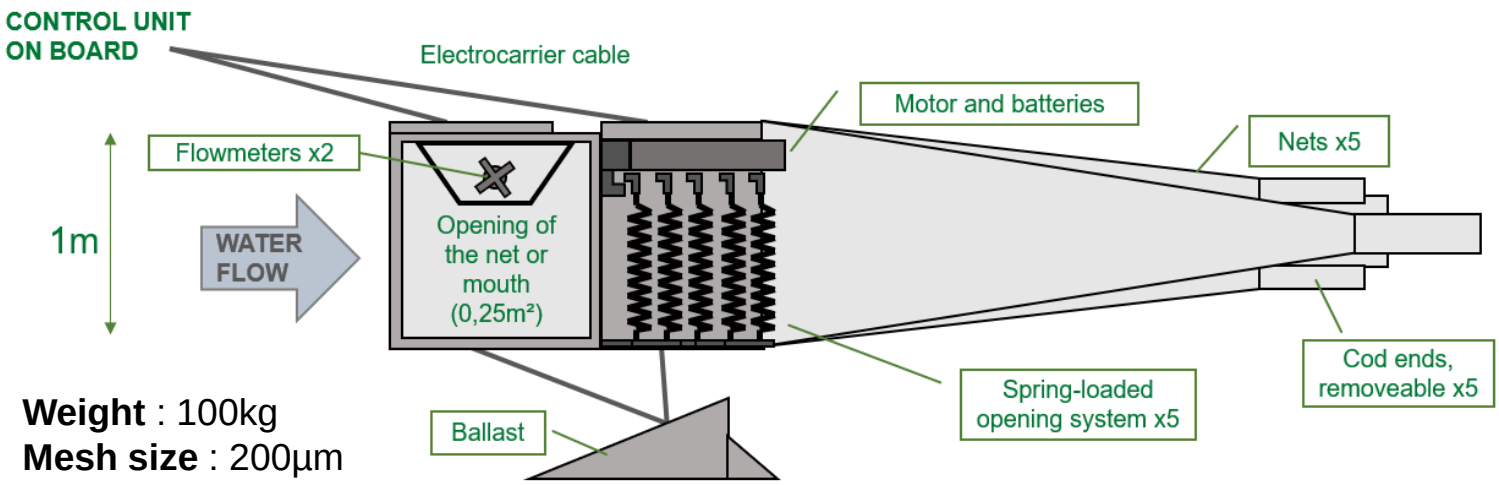
Underwater

50 000€

Professional overview

Recovery of the multinet after sampling © Margaux Noyon

1. **Arming** of the nets and **immersion** in the water
2. **Multinet** maintained and pulled by winches
3. **Opening** of each of the **5 nets** at specific selected depths (between surface and 200m), from the ship via electric cable
4. **Filters** water and **collects plankton** from the selected depth to the one where the next net is opened
5. **The fifth net remains open** and collect up to the surface



Weight : 100kg
Mesh size : 200µm

Education

- **2009** : Conceived by HYDRO-BIOS Apparatebau Marine Technologies
- **2019, august** : First technical test of this Multinet on Téthys II, off Toulon

Skills highlights

- Investigate **biodiversity**, **size structure** and **vertical distribution** of meso-zooplankton community
- Towed **vertically** (boat is not moving, 1m/s) or **horizontally** (the boat is moving up to 4 knots depending on the mech size)
- **Integrated Pressure Sensor** fixed in the housing allows continuous supervision of the operating **depth**
- Inlet and outlet **flow monitoring via flowmeters**
- Can be used **to a depth of 3000m**, but is used to a maximum of 200m on the RESILIENCE oceanographic cruise

Interests & curiosities

Used on ship of 25m or more

Can be used in « OFFline » mode, without electric cable : depth are selected before deployment

Trace metal measurement in sampled organisms

Can be used for different organisms size depending on the nets