

Moving Vessel Profiler (MVP)

Profession : **Automated Underway Profiling System**



Fluorescent and physical parameters (0-300m depth)



ODIM BrocOcéan (CA)



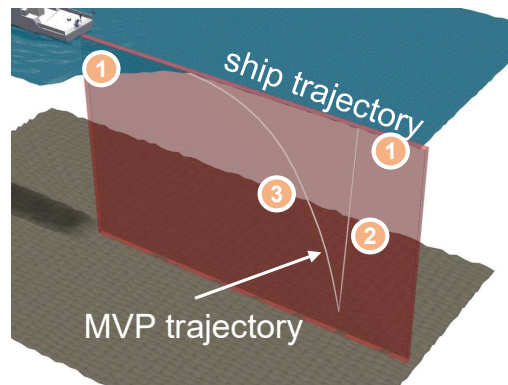
Underwater



250 000 € (without sensor)

Professional overview

- 1 Docking Mode** : the MVP is **deployed at 4m below the surface** while the ship reaches a **6 knots speed** to strain the cable.
- 2 Descent** : The MVP **dives to 300m depth in 20s while recording data**. If the seafloor is above 300m, the MVP stops at 10m before reaching the seafloor.
- 3 Ascent** : Deceleration phase and **ascent to 4m depth in 5 minutes while recording data** (back to docking mode). **This cycle goes on** until the operation stops (12h maximum).



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Education

- **20 years of experience** and thousands of successful surveys
- **2011**: Purchase of MVP by MIO

Skills highlights

- **Continuous data recording** (Temperature, Salinity, Fluorescence and pressure) at **very high resolution** (1 km)
- **Automated real-time data** underway profiling system
- **Minimize survey costs**
- Automatically adjusting to bottom depth from ship-based depth sensor
- **Additional instruments** can be deployed at the same time from the vessel

Interests & curiosities

A load shell can be added for monitoring pullout loads

Can be installed on most of the ships

Can be adapted by deploying different sensors