

IN-SITU SURVEY SERVICES

UNLOCK THE DEPTHS WITH OUR ADVANCED UNDERWATER GLIDER DATA COLLECTION SERVICES

At ALSEAMAR, we lead **underwater data collection** with advanced SeaExplorer underwater gliders equipped with a variety of sensors.

Our expert team conducts global missions to provide **accurate and timely data** for your research, environmental monitoring or commercial projects.

Whether you need to find chemical anomalies near the ocean floor or through the water column, to monitor water quality or to track marine life, our gliders are the **ideal solution**.

With our **cutting-edge technology and commitment to excellence**, we are your trusted partner for all your underwater data collection needs.

USE CASES

Environmental & Marine Assessments

- Physical oceanography
- Metocean monitoring
- CO2 cycle monitoring
- Marine food chains
- Anoxic water zones
- Red tides (Nitrate)
- E.coli contamination

Governmental studies

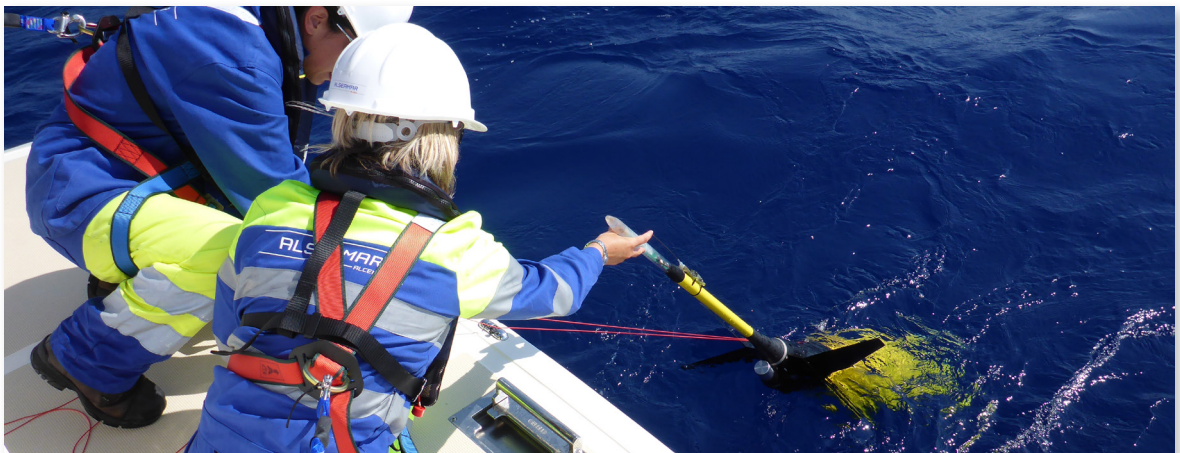
- Natural disaster early warning system
- Hurricane / medecane intensity information
- Assessment for Oil & Gas potential deposits
- EIA (Environmental impact assessment)
- Marine mammal monitoring

Industrial

- Wind farm monitoring
- Ocean currents assessments
- Carbon Capture and Storage (CCS)

Offshore O&G Projects

- Acoustic surveillance
- De-risking seismic exploration
- Offshore leaks inspection and monitoring
- Oil Spill Incidents detection & concentration



INTERCHANGEABLE PAYLOADS

Physics

- Conductivity
- Temperature
- Currents
- Turbidity
- Microturbulence

Acoustics

- Recording
- On-board processing

Biological

- Phytoplankton
- Zooplankton

Dissolved gas

- O₂
- CO₂
- CH₄

Others

- Metals
- Nitrates
- Light penetration
- Oil-in-water

COURSE OF A MISSION

- Mission analysis to meet scientific objectives
- Equipment preparation & mobilization
- Mission execution with real-time analysis
- Quality control measurements
- Restitution (scientific representations & reports)



OUR GLIDER FLEET

- 18 gliders
- 50 + sensors
- 2023 (test R&D and service):
 - Total: 159 individual missions
 - Average: 4.3 gliders at sea/day

OUR TEAM

- Project managers
- Marine technicians
- Oceanographers and acousticians (PHD)



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