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SEA EXPLORER

ALSEAMAR

MULTI-MISSION UNDERWATER
GLIDER AND IN-SITU SERVICES



innovation & services at sea

@SeaExplorerUUV

SEA EXPLORER
ALSEAMAR

GLIDER'S PRINCIPLES

The SEAEXPLORER is an autonomous underwater platform that collects data from depths of up to 1,000 meters, operating for weeks to months on a single battery charge without needing a support vessel.

It glides silently, gathering various data types as directed by the pilot. With a user-friendly software suite for real-time monitoring, it periodically surfaces to transmit its GPS position and receive new mission instructions, offering a cost-effective solution for underwater data collection.

NAVIGATION PRINCIPLES

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

A WIDE RANGE OF PAYLOADS

PHYSICS

Conductivity
Temperature
Currents
Turbidity

ACOUSTICS

Recording
On-board processing

BIOLOGICAL

Phytoplankton

Zooplankton

DISSOLVED GAS

O₂
CO₂
CH₄

OTHERS

Metals
Nitrates
Light penetration
Oil-in-water



KEY BENEFITS

- 3-D Data Acquisition at Sea (Thousand of Square Kilometers)
 - Multipurpose Solution - Easily Interchangeable Payloads
 - Cost Effective Data Acquisition Device - Up to 2 Months Autonomy
- Without Need of Supporting Boat
 - Flexible Trajectory – Piloting from Onshore
 - Lower HSE risk than alternative Solution
- Carbon-free and Silent Vehicle – No Propeller
 - Easily Deployable worldwide

MULTIPLE MISSIONS

- Natural seep hunting survey
- Plug and abandonment monitoring
 - Monitoring mammal movements
- Oceanographic research & monitoring
- Carbon capture and storage monitoring
 - Acoustic environmental monitoring

USE CASES EXAMPLES

ENVIRONMENTAL & MARINE ASSESSMENTS

Physical Oceanography and metocean monitoring
CO₂ cycle monitoring

INDUSTRIAL

Wind farm structural monitoring
Ocean currents assessments

GOVERNMENTAL STUDIES

Natural disaster early warning system for Volcanic gas
Assessment for Oil & Gas potential deposits

OFFSHORE O&G PROJECTS

Acoustic Surveillance
De-risking seismic exploration

