

WE PROVIDE FOR AQUATIC DEVELOPMENT

UNPACKING THE UNKNOWN -DISCOVERING NEW FRONTIERS



## ECO SAS OFFSHORE –MARINE RESEARCH

### WHAT WE DO (CAPABILITIES & SERVICES):

#### 1. *Marine Offshore Multidisciplinary Research:*

*MarineResearchECO has the capabilities and experience to support yours offshore projects with studies. Services:*

- Studies in Oceanography
- Oceanographic, biological and physicochemical cruises.
- Hydrographic Studies. 3D seabed models. SBE/MBE surveys.
- Marine Geology and Stratigraphy Studies. Geological Models.
- Studies in Marine Geophysics. Sub-botton Profiling. SSS/SBP/Mag surveys.
- Marine Archeology
- Measurement and analysis services in Underwater Acoustics-Marine Noise.

#### 2. *Coastal and continental studies:*

*MarineResearchECO has the capabilities and experience to support yours onshore projects with studies. Services:*

- Coastal / Continental Topography & Cartography.
- Beach profiling
- Integrated Coastal Management Strategies and beach planning.
- Maritime signaling plans & AtoN plans.
- Hydrological models

#### 3. *Simulation of Coastal & Marine Scenarios.*

*MarineResearchECO has the capabilities and experience to simulate scenarios that allow strengthening emergency, contingency and integrated risk management plans. Services:*

- Simulation of waves and 2D-3D currents.
- Simulation of pollutants in the sea.
- Simulation of marine sediment transport.
- Modeling of all types of METOCEAN scenarios

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#### **4. Maritime & S Underwater activities**

***MarineResearchECO has the capabilities and experience to support your work at sea with equipment, partners and experienced personnel according the application of maritime regulations. Services:***

- Marine/Naval Equipment (Boats and Ships oriented for Marine Research)
- Pro-Diving with autonomous and semi-autonomous equipment
- Marine Pollution Control
- ISPS – ISPS code (Inspections-Audits)
- Ship inspections services.

#### **5. UAS Operation (UNMANNED AERIAL SYSTEM). and AUV (Autonomous Underwater Vehicle).**

***MarineResearchECO has the capabilities and experience to capture georeferenced images and offer inspections on land and sea with autonomous vehicles. Services***

- Aerial LIDAR surveys.
- Inspections and drones operations.
- Photogrammetric/Topographic aerial and conventional surveys.
- Underwater inspections of wrecks or any structure or objet at sea, river or lake botton.

#### ***MarineResearchECO (MRE)/ECO SAS Solutions***

- a. MRE generates the necessary technical information required to achieve the Environmental Licensing of your Offshore project in Colombia.
- b. MRE carries out the complete process of Underwater Archeology before the Colombian Institute, from registration and underwater prospecting to approval of the plan.
- c. MRE builds the necessary technical information in the different stages of your offshore project. Feasibility, design, construction and operation stages.
- d. MRE is your ally through the concession process with the Colombian Maritime Authority and others.