

SEALAB

Expertise



SEALAB products are designed to help your daily operations. Aiming to build Business-Specific Solutions, we develop customized features to optimize your water-related decisions, based on the integration of modeling expertise, research experience and engineering tools.

In addition to our Modeling and Monitoring solutions, we also provide consultancy services. Here is a small list of projects we recently performed:

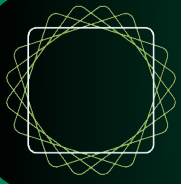
- EIA of dredging and land reclamation (Arabian Gulf)
 - United Nations Environmental Programme
- EIA of mining activities on dugong populations (Southern Great Barrier Reef)
 - Australian Marine Conservation Society
- Characterization of the transmission patterns of a coral disease (Florida Reef Tract)
 - Florida Department of Environmental Protection

At SEALAB, we can help you with projects in the following topics:

- Customized developments / integration for Modeling or Monitoring products
- Manual Analysis and Reporting
 - Coastal hydrodynamics
 - Sediment transport
- New add-on developments
- Vast expertise in Marine modeling & more
 - Marine ecology modeling & management
 - Oil pollution exposure, impact & contingency planning
 - Coastal development Environmental Impact Assessment
 - Land reclamation & dredging
 - Infrastructure design
 - Site characterisation



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SEALAB Modeling and Monitoring products are designed to help you in your daily marine operations. While these products already address many issues, you might require a more custom service to develop specific solutions or integrate your tools and data in our products. We are happy to share our expertise to help you address complex issues.

At SEALAB, we are a team of engineers and PhD scientists with a strong track record in coastal ocean modeling. We are at the leading edge of hydrodynamic model development with state-of-the-art numerical methods. Our team has developed and applied a number of models including SLIM, SWAN and OpenDrift. Thanks to our strong ties with university research, these models are continuously assessed, validated and further developed. We can therefore find the best tools to address your specific needs.

At SEALAB, we can help you with:

- Customized developments and integration of your data and tools in our Modeling and Monitoring products.
- Marine ecology modeling & management
- Oil pollution exposure, impact & contingency planning
- Coastal development Environmental Impact Assessment
- Land reclamation & dredging
- Infrastructure design & site characterisation

Here are some projects we recently performed:

- EIA of dredging and land reclamation in the Arabian Gulf (for UNEP)
- EIA of mining activities on dugong populations in the Southern Great Barrier Reef (for the Australian Marine Conservation Society)
- Characterization of the transmission patterns of a coral disease in the Florida Reef Tract (for the Florida Department of Environmental Protection)



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