HYPACK Customer Success Story

Article Written by: Jorge Guido Barboza
RECOPE - Departamento Ejecución de Obras Pacífico

Using HYPACK® to Acquire Data for Operational Monitoring

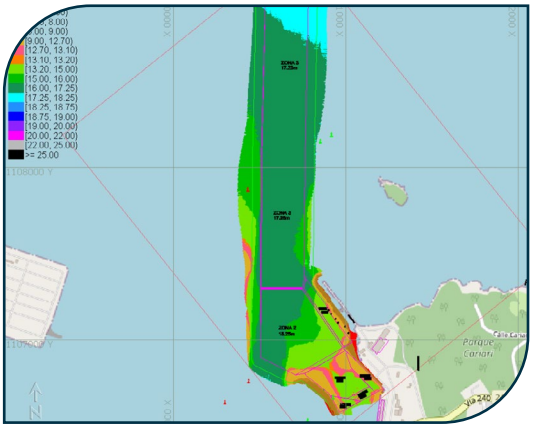
REFINADORA COSTARRICENSE DE PETRÓLEO
GOBIERNO DE COSTA RICA

Project Summary

- Improves safety and port efficiency with accurate, high-quality seabed data
- Reduces costs and risk by validating dredging results and minimizing third-party reliance
- Enables faster, data-driven decisions with standardized, reliable survey workflows

RECOPE (Departamento Infraestructura Central Pacifico) is an energy company in Costa Rica responsible for ensuring the country's energy security through the import, distribution, and supply of fuels, asphalts, and related products. The company plays a critical role in supporting national development by delivering reliable, high-quality energy solutions with a strong commitment to efficiency, safety, and environmental responsibility.

Hydrography plays a fundamental role in ensuring the safe, efficient, and transparent development and oversight of maritime infrastructure. For RECOPE (Departamento Infraestructura Central Pacifico) having accurate bathymetric information is essential to, properly evaluate seabed conditions, validate dredging activities, and ensure that port operations meet the technical requirements necessary for safe navigation. This is particularly important given the strategic importance of fuel supply by sea, where the access and maneuverability of tankers depend directly on reliable, high-quality hydrographic data.

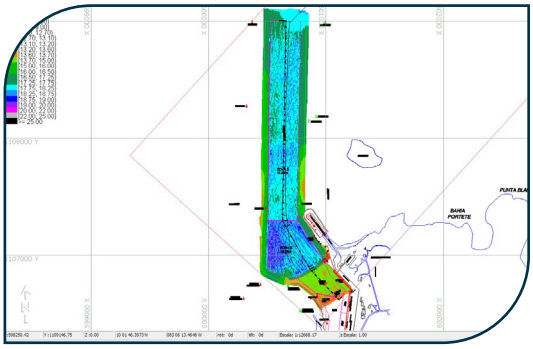


Modern hydrography, supported by technologies such as multibeam echo sounders, enables the acquisition of detailed and highly accurate representations of the seabed. These data allow for a comprehensive assessment of depths, removed volumes, and navigability conditions at all stages of a project: Before, during, and after dredging operations. Having this level of accuracy is key to verifying compliance with contractual specifications, properly quantifying dredged volumes, and ensuring transparent and responsible management of public resources.

In this context, HYPACK® stands out as a key tool for transforming collected data into useful information for decision-making. Its capabilities in data acquisition, processing, and visualization enable the establishment of consistent and standardized hydrographic workflows, improving the quality and reliability of bathymetric analyses. By facilitating precise mapping and validation of subsea conditions, HYPACK® helps strengthen technical oversight and informed decision-making in port and maritime projects.

Additionally, the guidance and training provided by HYPACK technical support personnel ensure the proper use of these tools, maximizing the capabilities of the installed systems. This support helps optimize the configuration, calibration, and operation of sensors, which is essential to achieving the highest possible level of accuracy in hydrographic data acquisition and ensuring reliable and consistent results.

Furthermore, the effective use of advanced hydrographic tools helps reduce reliance on external evaluations, while strengthening the institution's capacity to independently analyze and oversee contracted work. It also promotes alignment with international best practices and standards in hydrography and bathymetry, ensuring that operations comply with globally recognized criteria.



Overall, the integration of robust hydrographic practices, supported by platforms such as HYPACK®, enhances RECOPE's ability to ensure navigational safety, maintain operational continuity, optimize resource management, and uphold strong technical control over its maritime and port projects

For more information about RECOPE, please visit recope.go.cr

Article Written by:
Jorge Guido Barboza
Departamento Ejecución de Obras Pacífico
RECOPE

HYPACK, a Xylem brand
56 Bradley Street
Middletown, CT 06457, USA

+1.860.635.1500
sales@hypack.com
hypack.com