

Capability statement

Hydrographic surveys, bathymetry and dredging control for ports, dredging contractors and marine infrastructure. Traceable data, processed and delivered in each project's reference frame.

ACUATICSURVEY S.R.L.
Corporate ID (Costa Rica) 3-102-867515
San José, Costa Rica

2018

First documented survey

3

International dredging contractors

68 km

Channel under daily control · Suriname

1,411 ha

Multibeam survey · Puerto Viejo

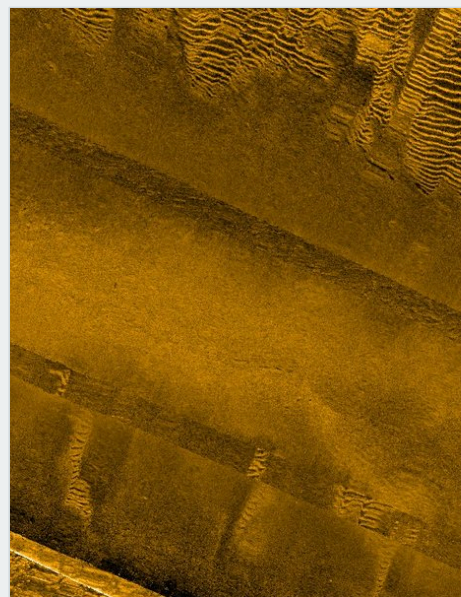
▲ Services

- Singlebeam bathymetry
- Port and channel surveys
- Tides and tidal analysis
- LiDAR scanning and photogrammetry
- Wave, current and transport modelling
- Multibeam bathymetry
- Side scan sonar
- Currents and waves
- Integrated land–sea surveys
- Hydrographic processing and technical products
- Dredging control and supervision
- Marine geophysics and sub-bottom profiling
- GNSS geodetic networks
- Siltation and morphological change

▲ Equipment

Multibeam echosounder	HydroTech MS400U
Dual-frequency singlebeam echosounder	Teledyne Odom EchoTrac E20
Side scan sonar	StarFish 452F
Sub-bottom profiler	EdgeTech 3400-OTS · CHIRP 2–16 kHz · by agreement
Sound velocity profilers	Valeport SWIFT SVP · 2 units
GNSS receivers	Toknav H68G · 4 units; Emlid Reach RS2 · 2 units
Data collector	Toknav
Tide gauge	Onset HOBOLink RX2100
Portable turbidity meter	Apera Instruments TN400
Acoustic Doppler current profiler (ADCP)	Mobilised by rental for each project; acquisition in progress · by agreement
Unmanned aircraft (UAV)	DJI Matrice 350 RTK · DJI Matrice 4E · DJI Mavic 2 Pro
Airborne LiDAR sensor	GeoSun GS-260X · Hesai XT-M2X laser, GeoSun AGS 303 POS, 26 MP RGB camera
Mobile LiDAR scanner	GeoSun GS-120G
Survey vessels	Abigail V for multibeam and a launch for singlebeam, as the project requires · by agreement
Correction radio link	Harxon eRadio HX-DU8616D PRO
Field connectivity	Starlink
Software	HYPACK, gAirHawk, Carlson SurvPC, Terralens

Partial list: hydrographic acquisition and positioning equipment. The full schedule, with serial numbers, is provided for tenders.



Side scan sonar mosaic · Marina Flamingo · 2025

Selected projects

Client	Project	Location	Period
Jan de Nul	Puerto Caldera maintenance dredging	Puerto Caldera, Costa Rica	Nov 2025 – Jan 2026
Dutch Dredging (De Boer) - APM Terminals	APM Terminals maintenance dredging	Port of Moín, Limón	Aug 2023 – Oct 2023
DEME Group	RECOPE berths, turning basin and access channel dredging	Port of Moín, Limón	Mar 2025 – Apr 2025
INCOP	Bathymetric, geophysical and benthic characterisation	Puerto Caldera, Costa Rica	Oct 2023 – Dec 2023
Marina Flamingo	Continuous land–sea integrated survey	Guanacaste, Costa Rica	Apr 2025
Marina Loros	Bathymetry of the berthing area and access channel	Golfito, Costa Rica	Dec 2025 – Jan 2026
Dutch Dredging (De Boer)	Access channel maintenance dredging	Suriname River, Suriname	Jan 2024 – Oct 2024
UNOPS – AyA	Bathymetry for submarine pipeline design	Puerto Viejo, Limón	Sep 2018 – Jun 2019

Quality control

Multibeam patch test	Calibration of the system's angular offsets before every campaign.	Sound velocity profile	Measured on every campaign, as it varies with water temperature and salinity and directly affects computed depth.
Uncertainty computation (TPU)	Propagation of system uncertainties through to each delivered sounding, following the approach the IHO S-44 standard uses to express survey quality.	Bar check	Echosounder verification with a plate lowered beneath the transducer to known depths, before the survey starts.
Post-processing and data cleaning	Data cleaning and verification before delivery, under a written procedure.	Tide reduction	Referred to the level agreed with the client.

Coordinate system CRTM05; vertical datum agreed with the client (in ports, normally mean low water springs). Charts also in WGS84 where tender documents require it. The applicable S-44 order is agreed in the contract and demonstrated with the job's own data.

Contact

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On request, for tender processes: tax registration certificate, current corporate standing certificate, full equipment schedule, technical staff CVs and client-signed experience certificates.