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# **WINTER 2021** MAGAZINE

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The coast and near shore of Tinian, one of the three principal islands of the Commonwealth of the Northern Mariana Islands, is captured in this topo-bathy image. Image courtesy of NOAA and USGS

### COMPANY PROFILE

Woolpert is the premier architecture, engineering, geospatial (AEG) and strategic consulting firm. We leverage the expertise of our global staff to elevate projects specific to each industry, while collaborating across markets to develop and apply the most effective solutions for public, private and government clients worldwide. Woolpert was founded in 1911 and has more than 1,000 employees working out of 40 offices in three countries. The firm has developed rich and strategic partnerships with key industry leaders to amplify and advance all AEG technologies. Woolpert has been named a Great Place to Work for five years and actively nurtures a culture of growth, inclusion, diversity and respect. For more information on Woolpert's services, projects, mission and history, visit Woolpert.com.



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## Woolpert Augmenting Topo-Bathy Lidar Capabilities

Woolpert has long been known for its aerial and terrestrial lidar and remote sensing applications and capabilities. Recently, the firm assembled an agile team of hydrographers, surveyors and GIS professionals who use state-of-the-art technologies to create and advance seamless topo-bathy products in the coastal zone and inland riverine environments around the world.

Accurate bathymetric data is crucial for safe navigation and decision-making. Government entities, engineers and coastal managers rely on bathymetric mapping for accurate snapshots of the terrain below the water's surface for coastal mapping and charting, coastal resilience and management, and disaster response.

Led by Woolpert Vice President and Chief Hydrographer Carol Lockhart, Woolpert's maritime team generates everything from chart data inputs and classified point clouds to digital elevation models and identified feature classes. These support geospatial applications like coastal and riverine engineering and resilience, critical infrastructure design and assessment, habitat modeling, nautical charting and regional sediment management.

Woolpert collects bathymetric and hydrographic data using vessel-based sonar systems, manned aircraft, unmanned aircraft and satellite systems, utilizing its in-house fleet of aircraft, boats, sensors and survey platforms. The firm also leverages its network of trusted local providers and its relationships with key architecture, engineering and geospatial technology partners worldwide to provide optimal solutions to each client and every project.

# LEADING PROVIDER OF LIDAR DATA AND SOLUTIONS

## WOOLPERT

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