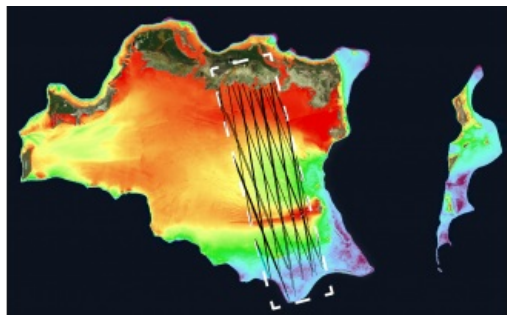


# TCarta Marine to Unveil Trident Satellite-derived Bathymetry



TCarta Marine, a global provider of hydrospatial products, will demonstrate the new Trident Satellite Derived Bathymetry (SDB) Toolbox, now available as a software-as-a-service product, at GEOINT 2021, which is being held from 5–8 October in St. Louis, Missouri, USA.

The Trident SDB Toolbox is a series of software applications that operate within Esri ArcPro and allow organizations to perform their own extraction of bathymetric measurements from satellite, aerial and UAV imagery.

## Hydrospatial Workflow

The toolbox currently contains a variety of applications, such as a pre-processing tool to calibrate and validate in situ source data such as sonar or Lidar for use with satellite or other imagery. Additionally, it is equipped with two algorithm workflows to derive water depth measurements, one using machine learning and the other using more traditional band ratios, as well as with a post-processing tool to perform quality assurance and validate the SDB measurements.

Also at [GEOINT](#), TCarta will be demonstrating its ICESat-2 Lidar datasets, which can be used in SDB validation, and the [TCarta](#) Global Satellite Derived Bathymetry (G-SDB) unveiled earlier this year. G-SDB is generated with machine learning and ICESat-2 laser data at 10m resolution to depths of 30m, depending on water clarity.

The Trident SDB Toolbox, G-SDB product and ICESat-2 dataset were developed through a small business innovation research grant from the National Science Foundation (NSF).