

# Satellite Reconnaissance Charts

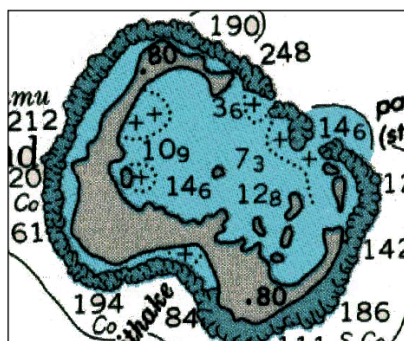
## Beyond Contours and Soundings

Across much of the globe, accurate and updated hydrographic data remains a rarity, forcing mariners to navigate poorly charted waters. Supplementary data is essential in such areas to improve hydrographic planning, reduce the risk of groundings, and equip mariners with reliable information.

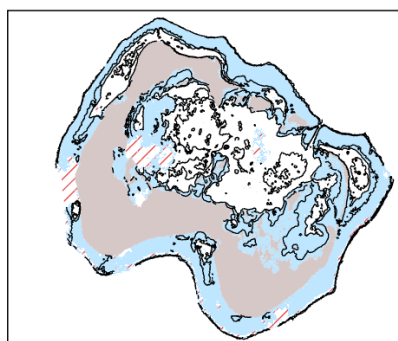
Satellite Derived Bathymetry (SDB) is deployed to remotely survey coastal and nearshore areas, offering high resolution and up-to-date bathymetry to depths of 20m and up to 30m under ideal conditions. It is often in these same shallow water areas (often referred to as the “white ribbon”) that mariners are lacking critical bathymetric data.

TCarta’s Satellite Reconnaissance Chart integrates familiar chart features such as soundings and contours onto an SDB-informed basemap for a complete, up-to-date hydrospatial perspective. When used in conjunction with a nautical chart, a Satellite Reconnaissance Chart can provide crucial detail to mariners and survey planners alike.

Comparison of identical charted areas



NGA Chart 1:100,000



Satellite Recon Chart 1:100,000

## Specifications

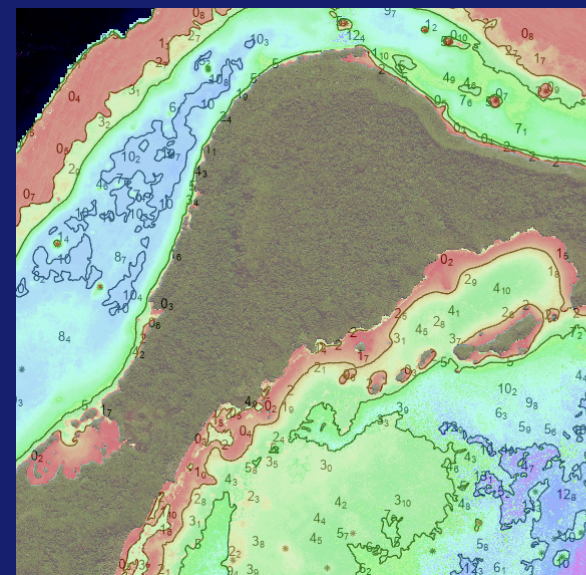
- Bathymetric surface with 2-meter pixel size on seafloor
- 5-meter horizontal accuracy (CE90)
- 10% depth +/- 0.5m vertical accuracy (LE90)
- Customizable contour interval and sounding density

## Use Cases

- Hydrographic survey planning
- Maritime route planning
- Recreational boating
- Ocean exploration

## Deliverable Options

- Cloud-hosted webmap
- S-57 and S-100 compatible
- GIS-ready in geoTIFF and vector formats



Satellite Derived Bathymetry (SDB) maps water depths up to 20m (30m in ideal conditions) using remote sensing and machine learning on multispectral imagery. It provides a fast, non-intrusive alternative to shallow-water surveys, filling data gaps, detecting changes, and identifying "no-go" zones for survey planning.