



# LIVING COASTS AND SEAS

Advancing marine research and discovery at Curtin

## Sonar Imaging

The Centre for Marine Science and Technology (CMST) has expertise in collecting, processing and analysing data from a variety of sonar and echosounder systems. Researchers have developed sonar imaging software tools, some of which are now publicly available. These tools have been utilised in multiple CMST projects in the areas of habitat mapping, seafloor bathymetry and composition mapping, biomass mapping, fisheries surveys, environmental monitoring of dredge plumes and gas seeps, internal waves and detecting marine megafauna (including sharks along Western Australian beaches).

CMST's research assets include:

- Multibeam echo-sounder
- Scientific single beam echo-sounders
- Sidescan sonar
- Underwater video system
- Grab sampler
- Seabird CTD system
- Multiple pressure/temperature and pressure sensors
- Bespoke Matlab Sonar processing suites
- Fledermaus, Quinsy, Hypack, CARIS software licenses

### Team

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