

Shallow Water Capability

Autonomous Survey Vessel



The need to conduct bathymetric surveys in very shallow water in a safe, efficient and flexible way is met by AAM's lightweight and highly deployable ASV solution. AAM's vessel is fitted with a dual frequency GNSS receiver and a dual frequency echo sounder in a fully integrated survey package that defines the underwater surface safely, accurately and quickly.

The benefits of this system include:-

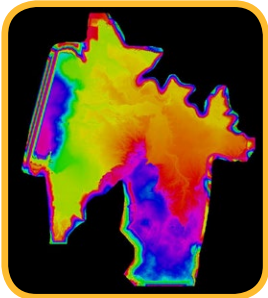
- elimination of safety concerns with having people on the water in a boat;
- accurate data collected in areas which would be difficult or impossible to reach with a conventional dingy/outboard motor setup; and
- can be mobilised to site quickly allowing rapid data acquisition.

Data can be integrated with AAM's LiDAR capture over adjacent land to form a seamless surface definition for applications such as volumetric calculations and obstruction surveys.



AAM's ASV solution provides the ideal platform for a rapid response to:

- Tailings dams and mine site flooded areas
- Accurate measurement for volumetric assessments and sediment monitoring
- River cross sections
- Remote site operations
- Surveys in shallow water areas unsuitable for boats or dinghies
- Post flood submerged hazard mapping
- Completing mapping in urban areas
- Jetty and harbour surveys



Satellite Derived Bathymetry (SDB)

AAM provides wide area reconnaissance-level geospatial data in shallow waters using satellite imagery to derive depths. Our solutions utilise leading edge algorithms and are constantly being refined to improve accuracy and reliability.

Satellite systems require no permissions for overflight and offer frequent revisit capabilities. Data can be obtained for a specific area quickly and analysed to produce a model of the seabed over a large area.

Although limited by depth and water clarity, Satellite Derived Bathymetry can offer a low cost alternative for regional seabed data to support planning and feasibility studies.

