

# Field Manuals for Marine Sampling to Monitor Australian waters: Version 3.0

Ocean best practices are crucial to collaboration, efficiency, and data reliability in marine research and management. We have developed a suite of best practices to ensure that marine data collected at different times and places across Australia are comparable.

These field manuals are endorsed by researchers, managers, and technicians from multiple agencies with a variety of experience and subject-matter expertise. Since Version 1 was released in 2018 there has been strong uptake across diverse sectors including applied science, offshore industry, and academic research.

- survey design
- multibeam echosounders
- autonomous underwater vehicles
- benthic and pelagic baited remote underwater video
- towed imagery
- sleds and trawls
- grabs and box corers
- remotely operated vehicles







### Three new practices added in 2024

#### Microplastics

Methods for sampling design, sample collection, processing and laboratory procedures and characterisation for microplastics (1 μm – 5 mm) in water, sediment, biota and air.

## Benthic observation survey system (BOSS)

A method to use a remote wide-field drop camera system to collect benthic imagery that can be annotated for spatial and predictive modelling, and ground truthing of habitat maps.

## Knowledge, attitude and practice

A method to better understand the activities and perspectives of people who use the marine environment. These surveys provide pressure data required for management reviews.

Main image: University of Western Australia; above left to right: Nina Wootton, University of Western Australia, CSIRO



Access the Field Manuals for Marine Sampling to Monitor Australian Waters here: https://marine-sampling-field-manual.github.io



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Main image: Geoscience Australia; Inset anticlockwise from top: Asher Flatt/CSIRO, NESP-IMAS, Parks Australia/CSIRO, Geoscience Australia, Marine Futures Lab UWA

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