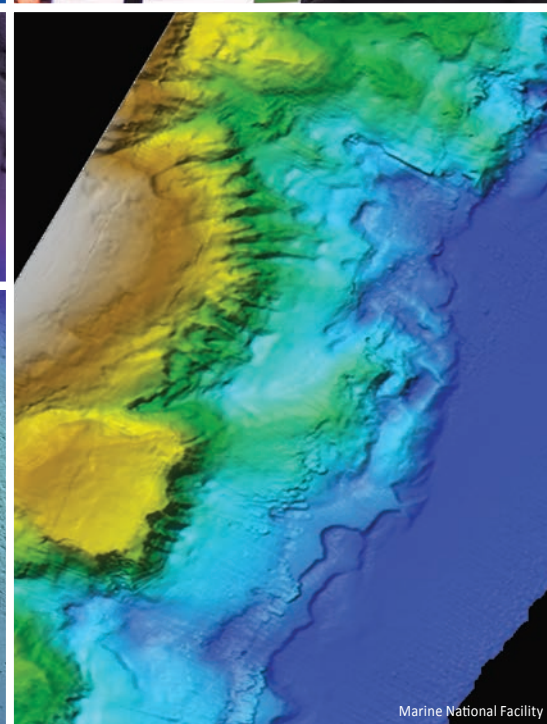
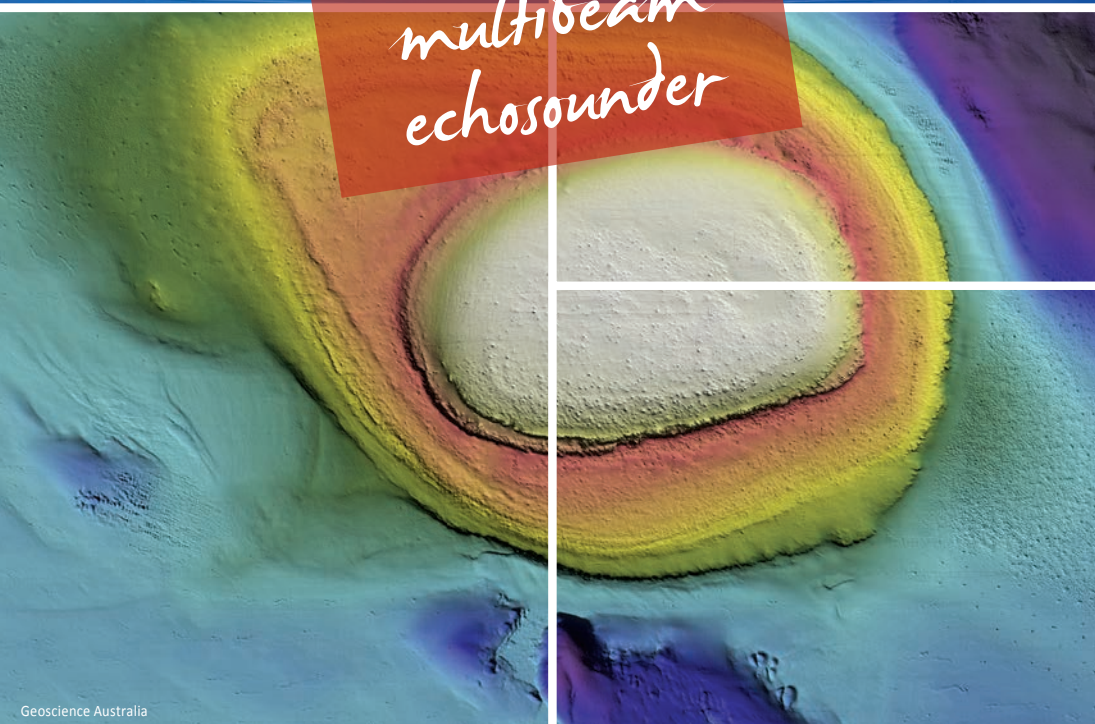
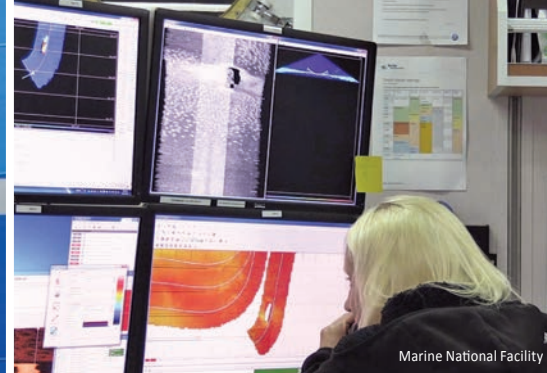


SONAR  
1.2M UNDER SHIPS KEEL

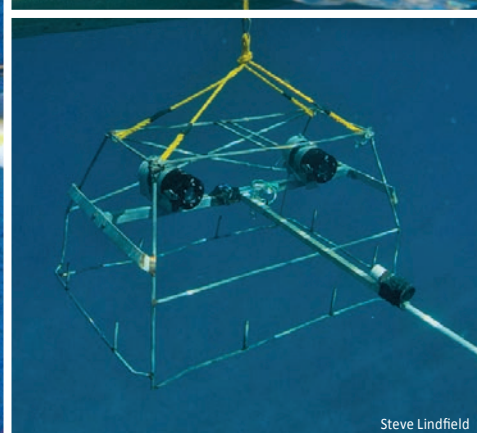
multibeam  
echosounder



autonomous  
underwater vehicles



baited remote  
underwater video



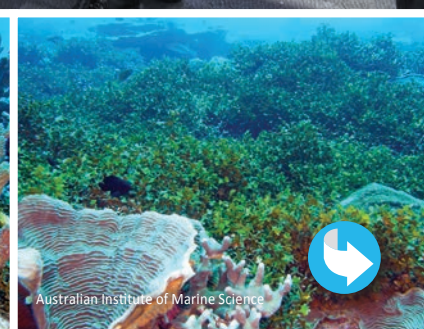
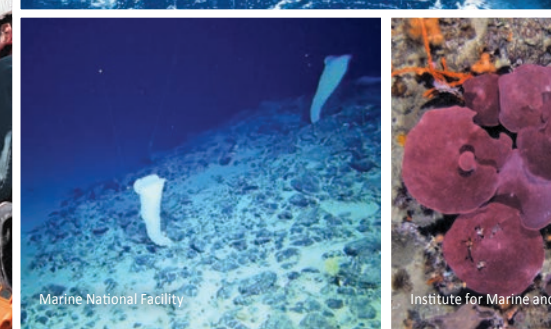
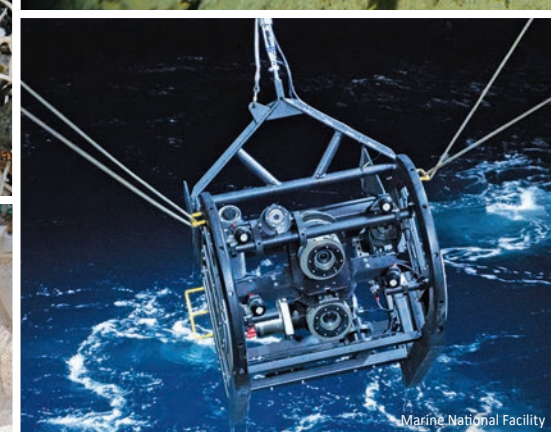
grabs and  
corers



sleds and  
trawls



towed  
imagery



# GEAR UP

## Field manuals for marine sampling Towards a national monitoring program

The field manuals outline standard operating procedures to ensure that data collected by seafloor-sampling platforms at different times and places across Australia are directly comparable and address questions of national importance. Download them and send us your feedback:  
[www.nespmarine.edu.au/field-manuals](http://www.nespmarine.edu.au/field-manuals)



National Environmental Science Programme



Source: Geoscience Australia multibeam data holdings 2018

Less than 25% of Australia's seafloor is mapped

# AUSTRALIA NEEDS YOUR DATA

Combined data from shallow reef surveys around Australia provided one of the most influential marine biological datasets for *State of the Environment 2016*.

Now it is important to do the same for deeper shelf waters, where a variety of sampling methods are used.

Can you work with standard operating procedures so that your data can be incorporated into a national resource?

Shallow reef dive surveys  
AIMS: 3,712 since 1993  
UTAS: 12,100 since 1992  
RLS: 8,271 since 2008

- Australian Institute of Marine Science Great Barrier Reef long-term monitoring sites
- University of Tasmania long-term temperate marine protected area monitoring sites
- Reef Life Survey sites

BRUV deployments  
~19k around Australia since 2000

- Baited Remote Underwater Video deployments
- 100
  - 200
  - 300
  - 400

Source: www.globalarchive.org

## Field manuals for marine sampling

The field manuals outline standard operating procedures to ensure that data collected by seafloor-sampling platforms at different times and places across Australia are directly comparable and address questions of national importance. Download them and send us your feedback: [www.nespmarine.edu.au/field-manuals](http://www.nespmarine.edu.au/field-manuals)

AUV deployments  
655 (~5 million images) around Australia since 2007

- Autonomous Underwater Vehicle deployments
- Source: Integrated Marine Observing System AUV Facility



National Environmental Science Programme

The NESP Marine Biodiversity Hub helps decision-makers understand, manage and conserve Australia's environment by funding world-class biodiversity science.

[www.nespmarine.edu.au](http://www.nespmarine.edu.au)

[www.imos.org.au](http://www.imos.org.au)

