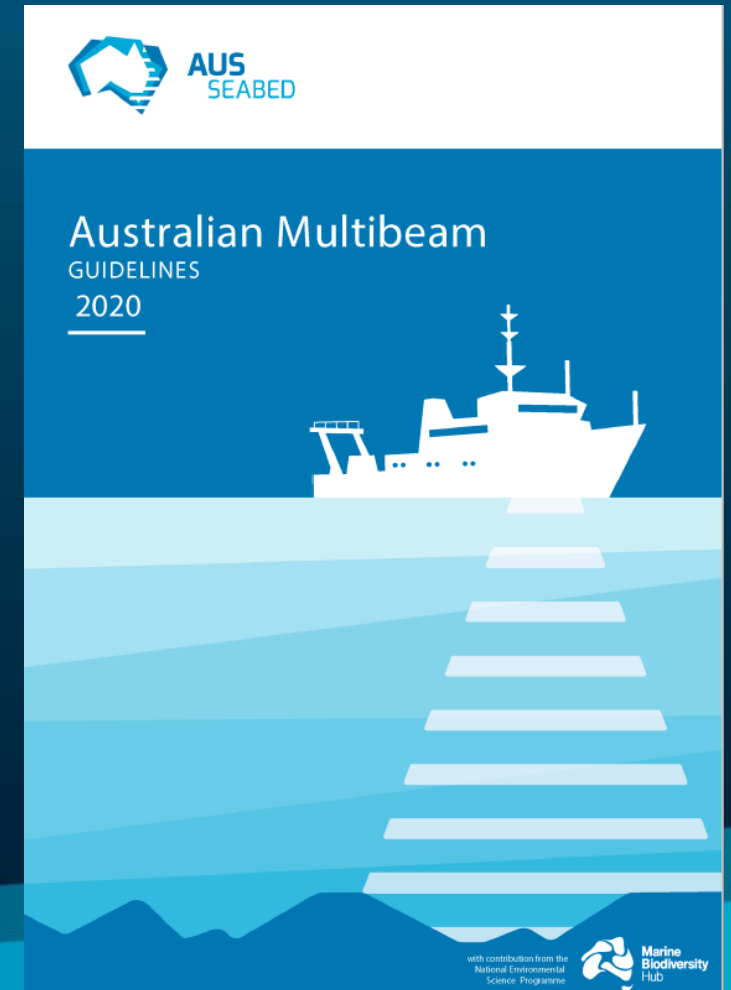




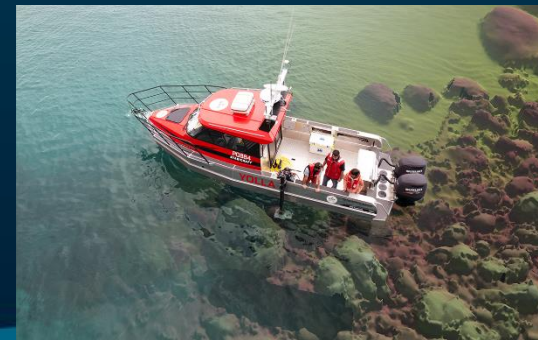
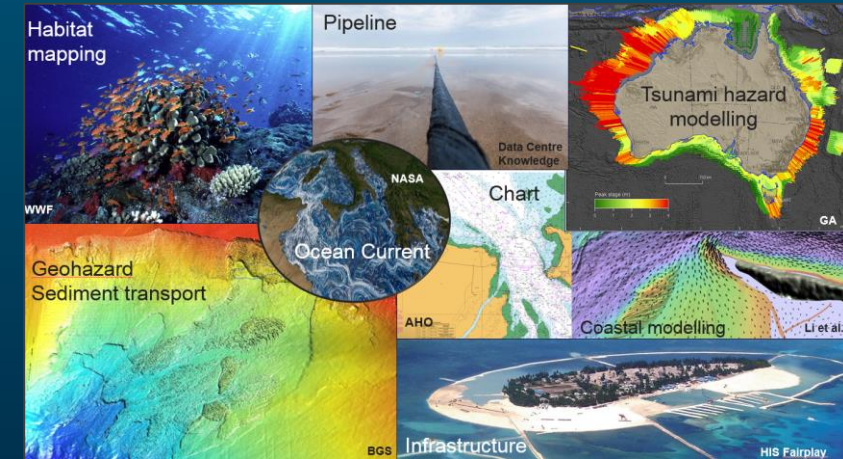
Australian Multibeam Guidelines Version 2

Sneak peak



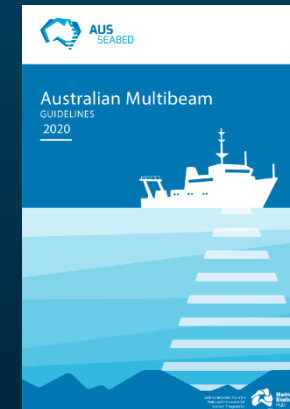
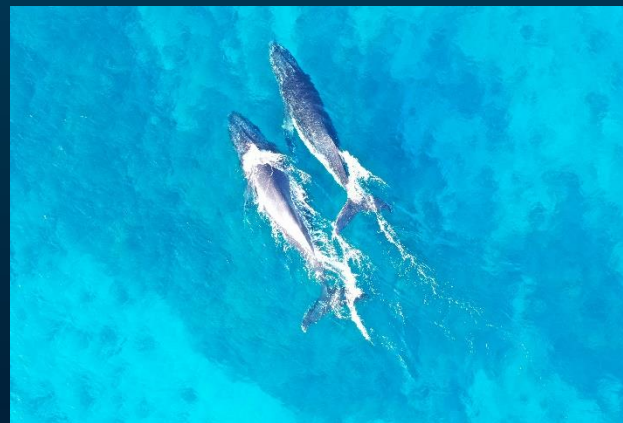
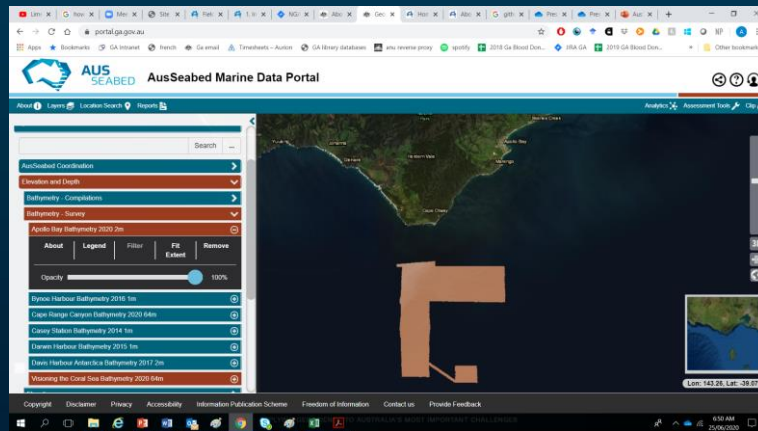
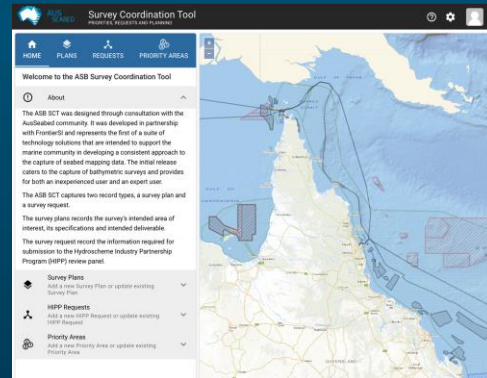
Version 2 of the Australian Multibeam Guidelines

- The guidelines are suitable for novice to expert
- They provide an outline of the minimum requirements that need to be considered to maximise the impact of seabed mapping data to a range of applications



Revisions

- Planning
- Acquisition
- Data release
- Multibeam Acoustics for Marine Monitoring



New online interactive format



Apps | Bookmarks | GA Intranet | french | Ga email | Timesheets – Aurion | GA library databases | anu reverse proxy | spotify | 2018 Ga Blood Don... | JIRA GA | 2019 GA Blood Don... | Other bookmarks

Marine Biodiversity Hub
Marine Sampling Field Manuals

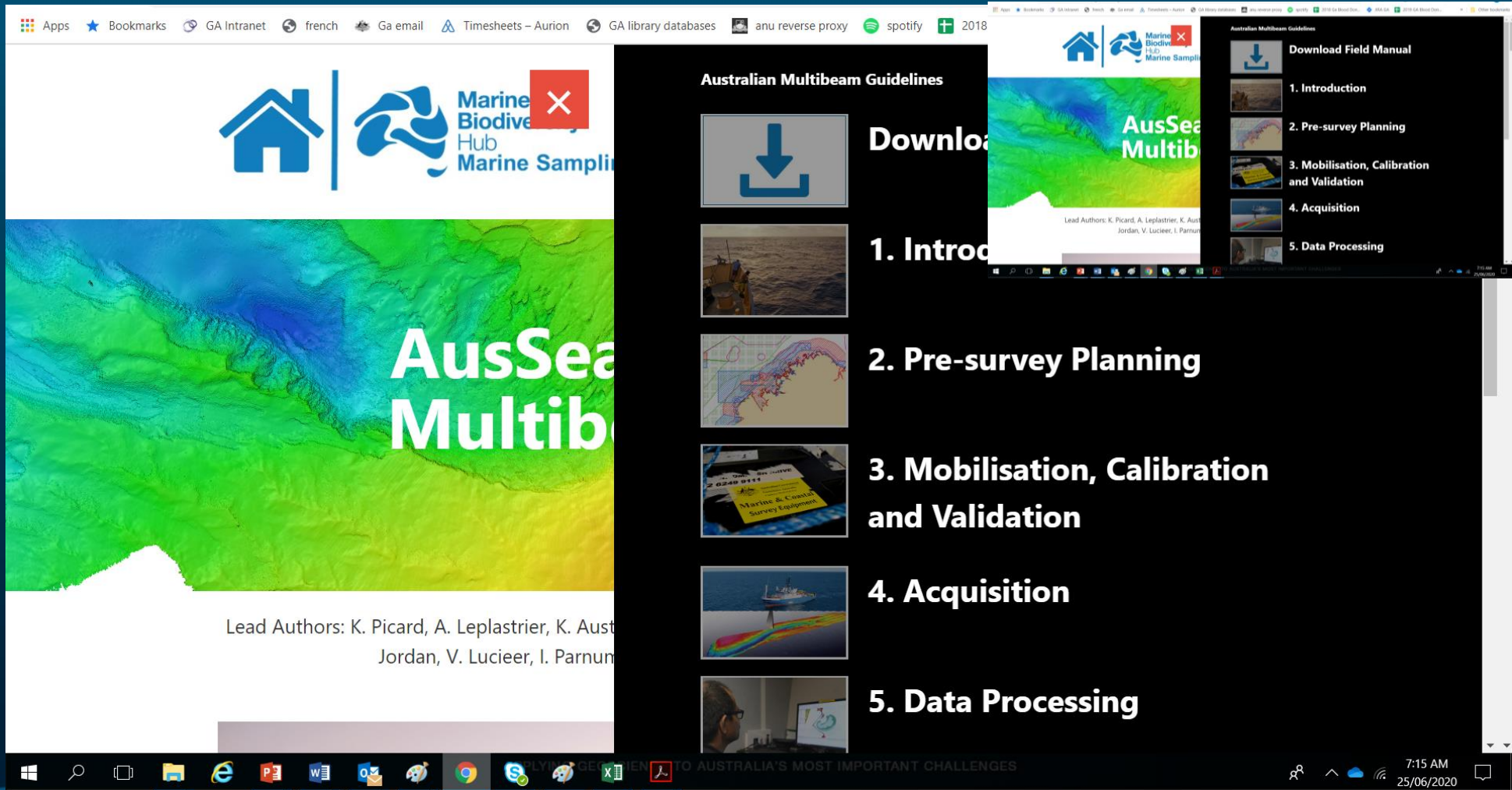
AusSeabed Australian Multibeam Guidelines

[Download Manual](#)

Lead Authors: K. Picard, A. Lepastrier, K. Austine, N. Bergersen, M. Cullen, M. D'Amico, D. Donohue, S. Edwards, T. Ingleton, A. Jordan, V. L. Leber, L. Munum, J. Sivalingam, M. Stinson, R. Talbot-Smith & C. Waterson

Will be released soon!

7:09 AM
25/06/2020



GA Intranet french Ga email Timesheets – Aurion GA library databases anu reverse proxy spotify 2018

Marine Biodiversity Hub Marine Sampling

AusSea Multibeam

Lead Authors: K. Picard, A. Leplastrier, K. Austin, Jordan, V. Lucieer, I. Parnum

Australian Multibeam Guidelines

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1. Introduction
2. Pre-survey Planning
3. Mobilisation, Calibration and Validation
4. Acquisition
5. Data Processing

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1. Introduction

2. Pre-survey Planning

3. Mobilisation, Calibration and Validation

4. Acquisition

5. Data Processing

7:15 AM
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Chapter Contents

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2.1.1 Existing data coverage

2.1.2 National bathymetry priorities

2.1.3 AusSeabed coordination tool

2.2 Research and survey permits

2.3 Seabed mapping data collection considerations

2.3.1 Data type, formats, and metadata

2.3.2 Survey area characterization

2.3.1.2 Data levels and file formats

Consistent definitions of data levels allow the community to reduce ambiguity when discussing, delivering, processing or describing data. The AusSeabed definitions of data levels has been modelled on those prescribed by NASA for Earth Observations data products. The following definitions were discussed, refined and agreed to at the 2019 AusSeabed metadata and standards workshop (Table 6).

Table 4: AusSeabed Data Level Definitions

Level	Definition	Examples			
		MBES	Delayed Heave/ Ellipsoid/Nav	SVP	Tide
L0	Unprocessed instrument data Unprocessed/raw instrument data at full resolution as received from the sensor. Includes MBES and ancillary files as well as any and all artefacts.	Observed by sensor*.all	Observed by sensor*.000	Observed*.raw	Observed, proprietary formats
L1	Data merged with ancillary information Reconstructed L0 MBES data undergoes correction with ancillary information either from within the L0 data itself or the separately calculated ancillary files collected by the ancillary system (e.g., delayed heave and svp). This level may include radiometric and geometric correction and calibration, but not cleaning.	Processed depthIntegration of L1 ancillary information (uncleaned and unfiltered)	N/A: Data proceeds straight to L2		
L2	Derived geophysical/georeferenced variables L1 data undergoes cleaning and filtering to create the first	Bathymetry productCleaned	Processed to SBET	Processed to *.txt	Processed to *.txt



Bibliographic reference: Picard, K., Austine, K., Bergersen, N., Cullen, R., Dando, N., Donohue, D., Edwards, S., Ingleton, T., Jordan, A., Lucieer, V., Parnum, I., Siwabessy, J., Spinoccia, M., Talbot-Smith, R., Waterson, C., Barrett, N., Beaman, R., Bergersen, D., Boyd, M., Brace, B., Brooke, B., Cantrill, O., Case, M., Daniell, J., Dunne, S., Fellows, M., Harris, U., Ierodionou, D., Johnstone, E., Kennedy, P., Leplastrier, A., Lewis, A., Lytton, S., Mackay, K., McLennan, S., Mitchell, C., Monk, J., Nichol, S., Post, A., Price, A., Przeslawski, R., Pugsley, L., Quadros, N., Smith, J., Stewart, W., Sullivan J., Tran, M., Whiteway, T., 2018. Australian Multibeam Guidelines. Record 2018/19. Geoscience Australia, Canberra. <http://dx.doi.org/10.11636/Record.2018.019>

Further information

email: ausseabed@ga.gov.au
or visit www.Ausseabed.gov.au

AusSeabed Webinar Series: Bringing the seabed to you

DATES Tune in from 1100 - 1245 AEST on the last Thursday of each

JUNE 25 National to International perspectives on seabed mapping

JULY 30 Mapping for management in the Anthropocene

AUGUST 27 Data sharing and collaboration

SEPTEMBER 24 Cross sector talks on the applications of seabed mapping

The session schedules will be available on the AusSeabed website

Thursday 30 July 2020	Workshop: Tools and Standards
Talks: Marine Anthropogenic Seabed Change	Thursday 27 August 2020
Alan Jones	Workshop: Seabed Management
Welcome	Talks: Industry, Government, Stakeholders, End-users
Workplan	Paul Kennedy (session chair)
Steering	Welcome
	Workplan 2020/21 summary
Emily Turner	Chris G
Mapping	IMSA
	Allison Broad, UOW
	Ship anchorages and benthic habitat
Mick O'Griddin	Rob Be
Mapping	Griddin
Pilbara	Joanna El Koury, EGS
	Submarine cables and connecting Australia
Paul Ker	Ralph
AusSeabed	Educational
AusSeabed	Engagement
	strategies
	End-users
	Questions
	Sally Watson, NIWA
	Queen Charlotte Sound
	Andrew Carroll, GA
	Elizabeth, Middleton and the cyclone
Tim Inglis	Evgeni
Coastal	Seabed
LIDAR for	Kim Picard
	10 year strategy
	Other business
Caitlin V	Vicky F
Lord Ho	Global
	A platform
	compilation
Alan - q	Barbar
	10-year
	Paul - questions and close
	Kam -

Thank you

