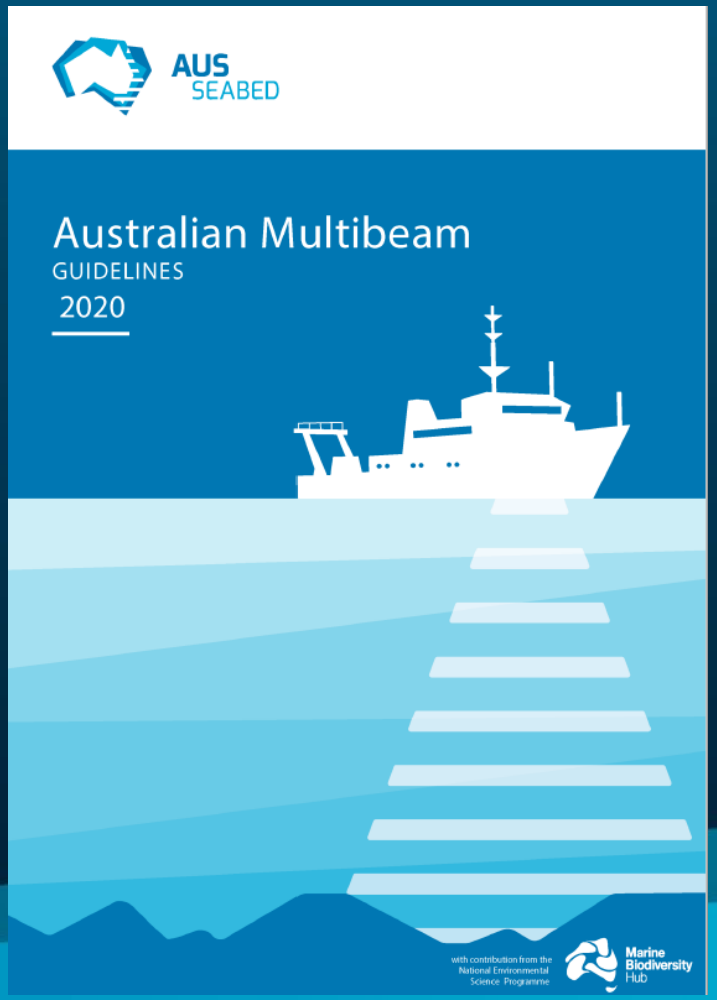
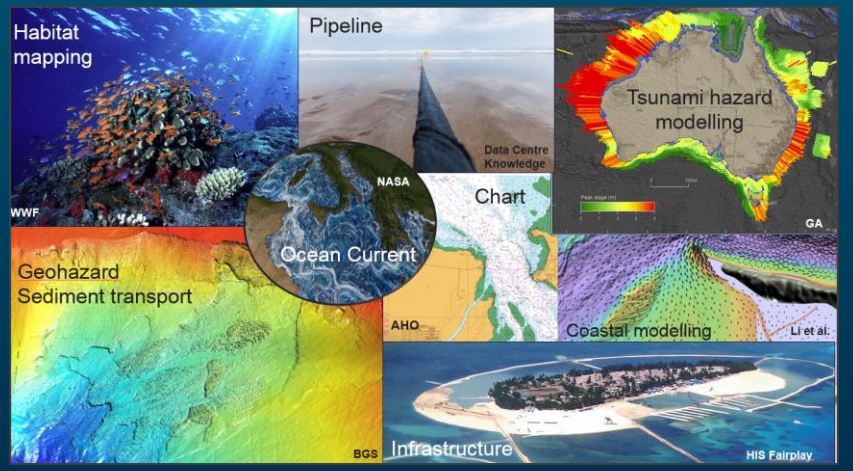
Australian Multibeam Guidelines Version 2

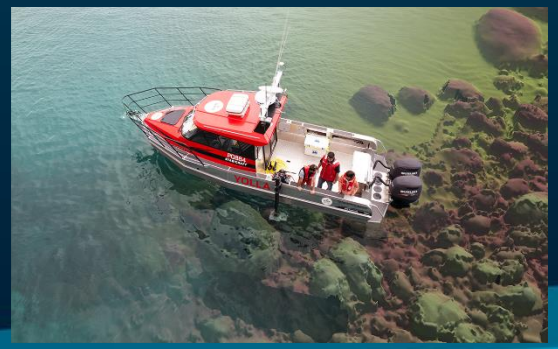
Sneak peak



Version 2 of the Australian Multibeam Guidelines

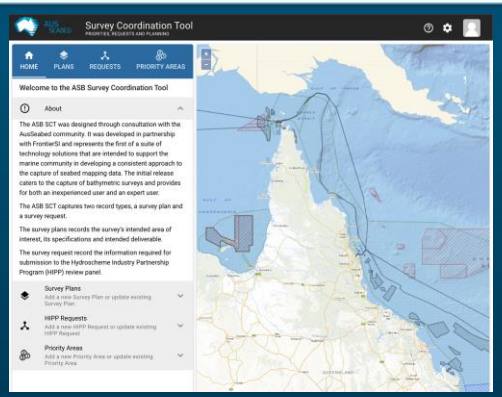
- The guidelines are suitable for novice to expert
- They provide an outline of the minimum requirements that need to be considered to maximise the impact of seabed mapping data to a range of applications

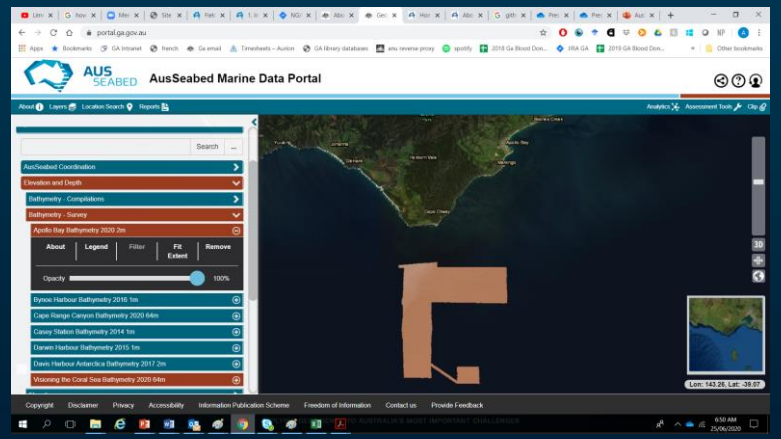


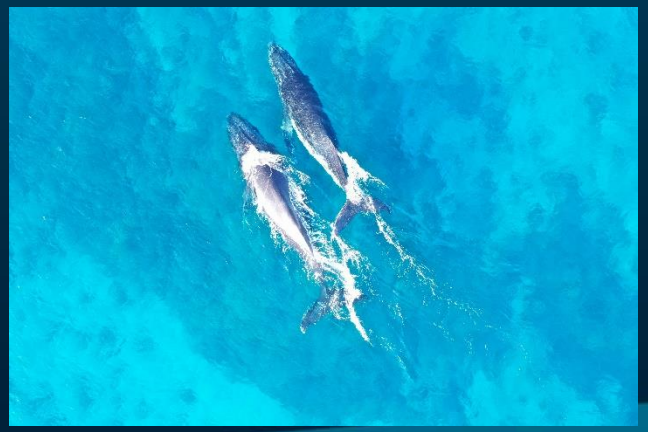


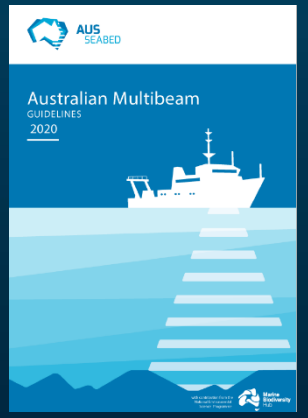
Revisions

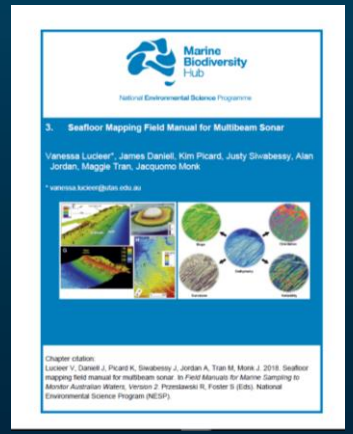
- Planning
- Acquisition
- Data release
- Multibeam Acoustics for Marine Monitoring



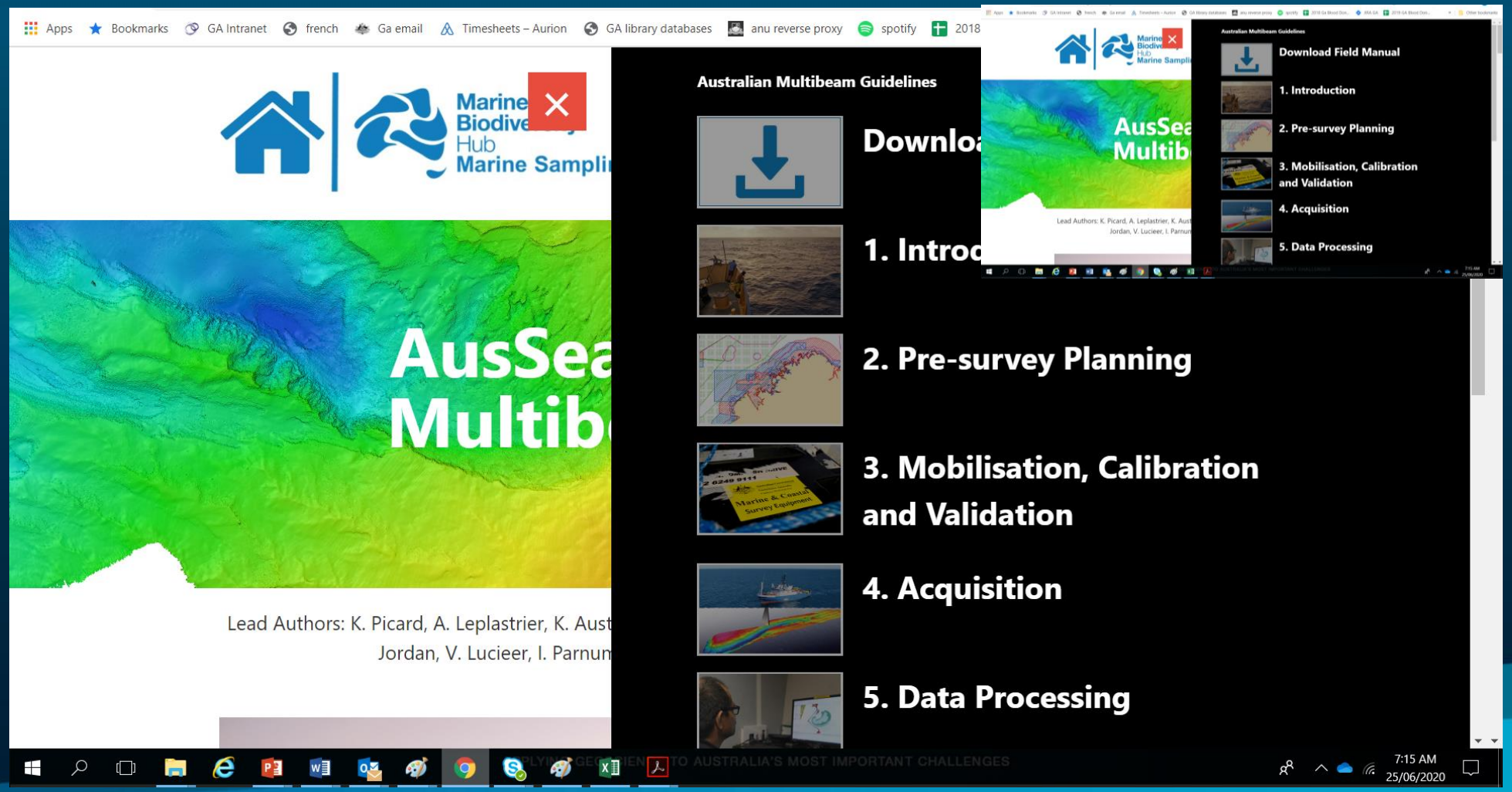








New online interactive format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5. Data Processing
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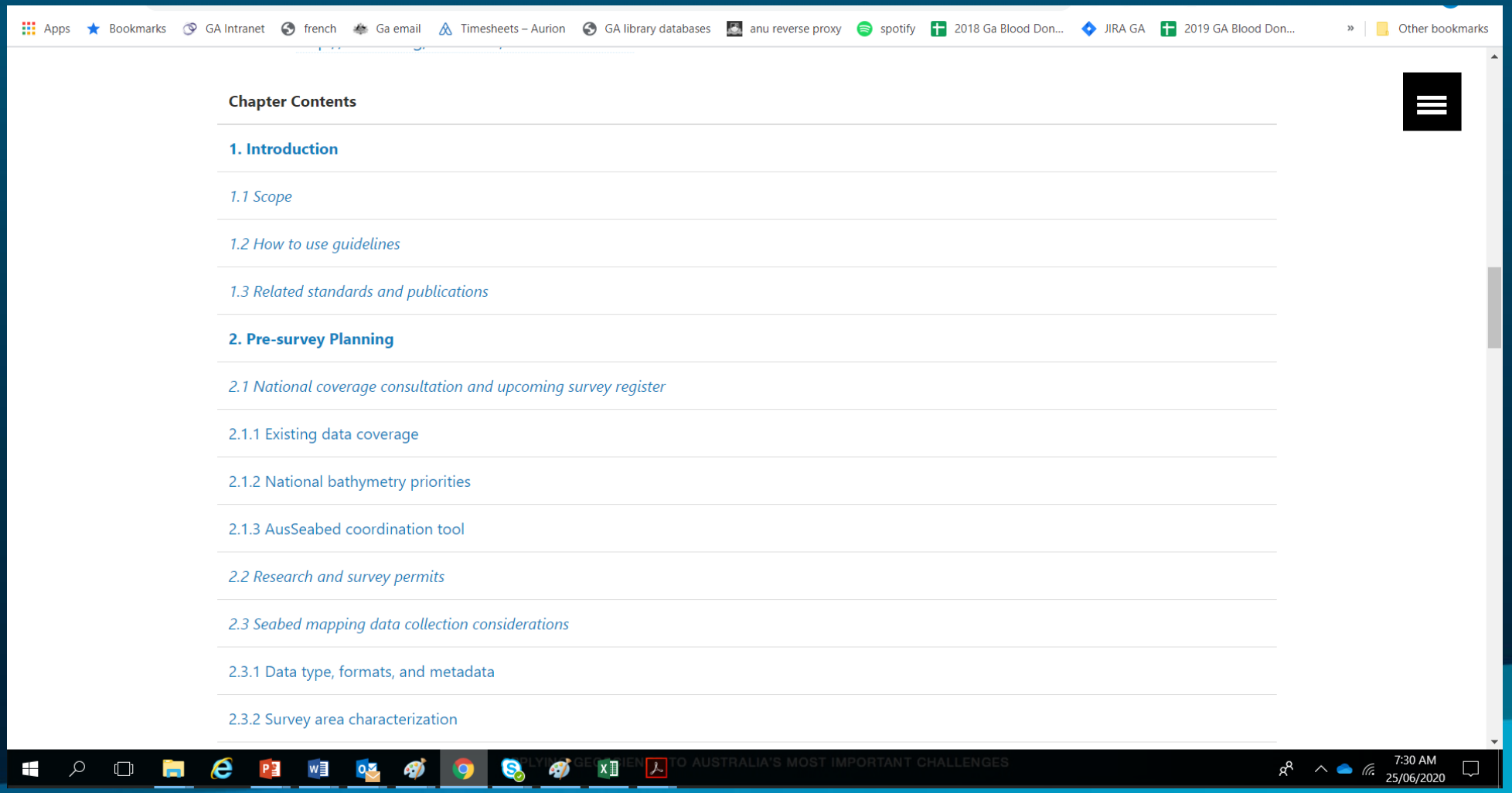
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1.2 How to use guidelines
1.3 Related standards and publications
2. Pre-survey Planning
2.1 National coverage consultation and upcoming survey register
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2.1.2 National bathymetry priorities
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2.3 Seabed mapping data collection considerations
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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

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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., Ierodiaconou, 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

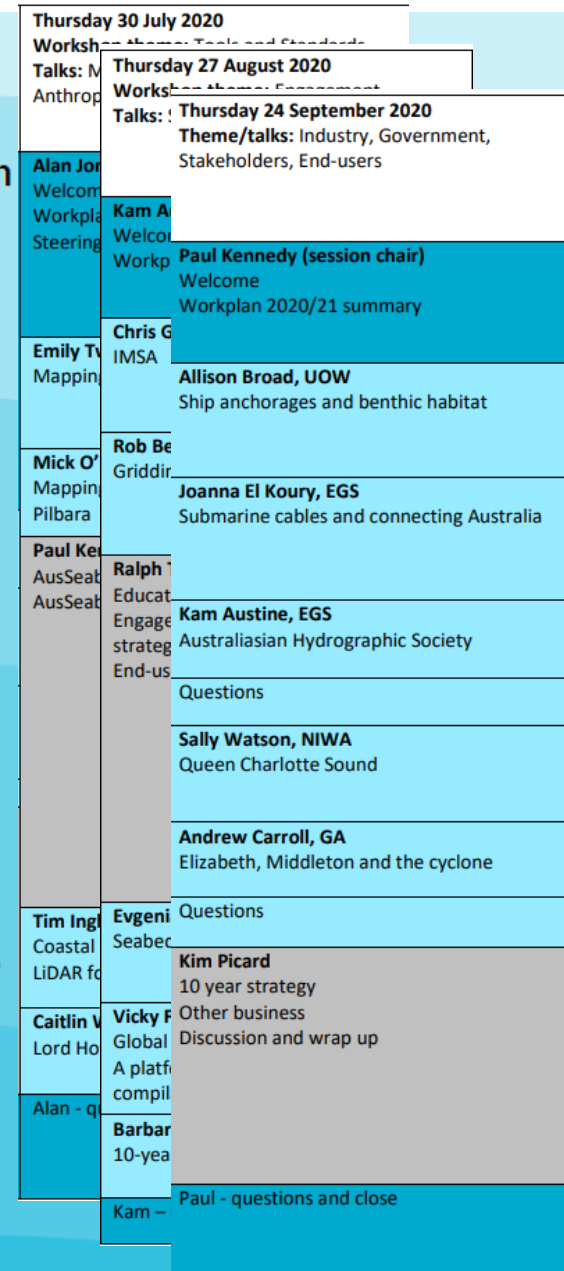
JUNE 25 National to International perspectives on seabed mapping

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



Thank you

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