

AusSeabed Webinar: June 25th

National to international perspectives on seabed mapping (with AusSeabed data hub workshop activities)

		0900	General Business	<p>Welcome</p> <p>Annual Review</p> <p>Work plan 2020/21 Kim Picard (session chair)</p>
	1130	0930	Speed Talks	<p>National Marine Science Plan: 2020 Mid-way point K. Picard, Dep-Chair NMSC</p> <p>Hydroscheme Industry Partnership Program Nigel Townsend, AHO</p> <p>Seabed 2030 Kevin McKay, NIWA</p> <p>Questions</p>
	1200	1000		<p>Exploring the portal Maggie Tran, GA</p> <p>AusSeabed Guidelines Aero Leplastrier, GA</p>
	1430	1030		Seabed Workshop

Total Participants

Individual: 139

Countries: 18

Organisations: 82

Total Registrants

Individual: 202

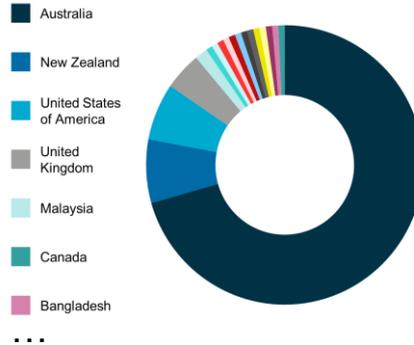
Countries: 25

Organisations: 134

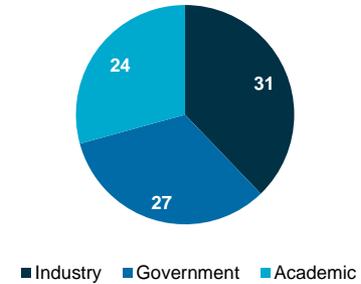
Average Duration Online

67 min

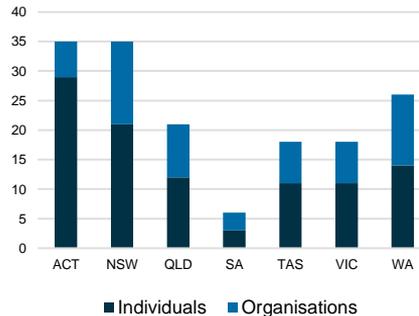
Country Participation by Individuals



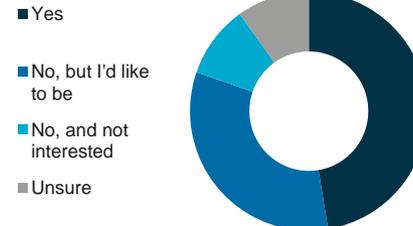
Sector Participation by Organisations



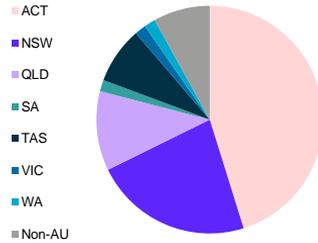
State/Territory Participation



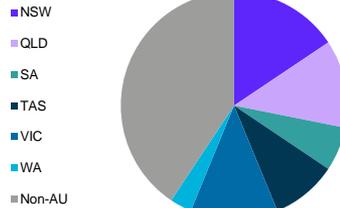
Are you on the AusSeabed mailing list?



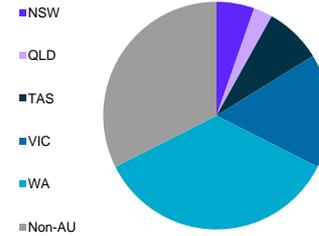
Government Participation by Individuals



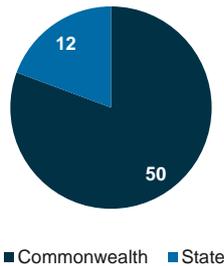
Academic Participation by Individuals



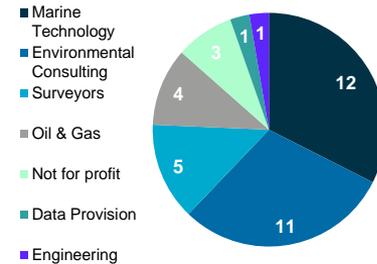
Industry Participation by Individuals



Government Participants



Industry Participants



Entities in attendance

Government

Australian Antarctic Division
 Australian Hydrographic Office
 Australian Institute of Marine Science
 Australian National Maritime Museum
 Bureau of Meteorology
 Coastal Marine Unit
 CSIRO
 Department of Agriculture, Water and the Environment
 Department of Defence
 Department of Transport
 Geoscience Australia
 Great Barrier Reef Marine Park Authority
 IDSQC
 KD Perantu
 LINZ
 Maritime Safety Queensland
 National Gallery of Australia
 National Hydrographic Center
 NSW Department of Planning, Industry, and Environment
 NSW DPI Fisheries
 Parks Australia
 Royal Malaysian Navy
 Royal Australian Navy
 SARDI Aquatic Sciences
 Transport for NSW
 UK Hydrographic Office
 WA Department of Transport

Industry

Austral Research
 EcoCoast Consulting
 EDIC Bayanat
 EGS Survey Pty Ltd
 Elgin Associates Pty Ltd
 Esp
 Esri
 Exodus Hydrographic Surveys Pty Ltd
 FrontierSI
 Fugro
 Geomatic Technologies
 IIC Technologies Ltd
 INPEX
 In-tech automotive LLC
 iXblue
 Johnson Outdoors
 Kongsberg Maritime Pte Ltd
 Neptune Marine Services
 O2 Marine
 Pertamina
 Perth NRM
 Quaternary Resources Pty Ltd
 SafeQuadrant Hydrographic
 Soga Asia Technologies
 Stegg Civil
 Surrich Hydrographics
 Tait and Associates
 Teledyne CARIS
 Total Marine Technology
 Venture Geomatics Ltd
 WPL

Academic

Bangladesh Fisheries Research Institute
 Discovery Marine Limited
 GEBCO
 GNS Science
 Kimberley Indigenous Saltwater Advisory Group
 LDEO
 NIWA
 Curtin University
 Deakin University
 Griffith University
 IMAS
 Istar
 James Cook University
 National University of Singapore/UNSW
 Sabaragamuwa University
 The University of Adelaide
 The University of Sydney
 Universidad de la Republica
 University of Adelaide
 University of Queensland
 University of Sydney
 University of Tasmania
 University of Wollongong
 UNSW

Question: Is this webinar being recorded and will it be available to download?

Answer: Yes, all webinars are being recorded and will be available to download. Each month's recording, presentations and Q&A will become available on the [AusSeabed website](#).

Question: Is there any information on what the downloaded data has been used for so far?

Answer: Yes, we do have sector information **based on the data downloaded from ELVIS**. However, it is based on assumptions regarding email addresses that users have submitted. We are developing a monitoring and reporting capability that will start to provide insights as we grow.

Question: Do you require an acknowledgment of AusSeabed data in a paper? That would be a good way to know what literature outputs are using the data.

Answer: Yes, it is required and the citation information is included in our metadata under the citation tab.

Our data is being released under a creative commons licence, and the usual scientific citation requirements are still in place, and GA owned data (recognising that not all data will be GA owned) is subject to GA's copyright statement: <http://www.ga.gov.au/copyright>.

In addition to this, GA does have considerable work occurring within the “linked data” space, and we may leverage this in the future, however setting up a citation monitoring service (Google Scholar or the like) would be a good supplement to our monitoring and reporting capability.

Question: Will the AusSeabed Marine Data Portal interact with the International Hydrographic Organization (IHO) Data Centre for Digital Bathymetry (DCDB)?

Answer: Yes, it is a two-way interaction.

The intent is to include services by any data providers that would like to participate as a “local hub”. The DCDB will likely be a “local hub” (and more).

DCDB harvests AusSeabed data to present global coverage. This is possible through the ASB Data Hub providing OGC and ISO compliant services so that our data products can also be presented in their catalogue (and others) as well.

Question: What data is discoverable/available on the AusSeabed Marine Data Portal versus the AODN portal?

Answer: The AusSeabed Data Hub aims to be a federated hub exclusively for seabed mapping data (i.e. bathymetry, backscatter, seabed sediment analysis, sub-bottom profiles, and multibeam water column). It will allow organisations to retain custodianship of their data and deliver it through an openly discoverable and accessible common portal with features focused on facilitating data visualisation and interaction before download. The power of the AusSeabed portal comes from the ability to overlay and rearrange layers of different data types, from multiple surveys and view them in concert. This includes the ability to access specialised coordination data in the form of upcoming surveys and national priorities layers to avoid the duplication of effort and the ability to add third-party data into the portal for visualisation alongside community data. In contrast, the AODN portal aims to act as a register and access point for all Australian marine data. As such individual survey data from AusSeabed will be made discoverable through the AODN portal but none of the data visualisation, tools, or coordination layer functionality will transfer across.

Most bathymetry data that is available in the Australian region is accessible through the AusSeabed portal with some of it also being available through the AODN. Legacy bathymetry data collected by the NSW state government is an anomaly, as it is currently only available through the AODN portal, and not accessible through AusSeabed. The disparate nature of the holdings are the result of legacy data workflows that the AusSeabed and AODN community are aware of and aim to address in the future.

Question: What sediment qualities (level of detail per sample) can be loaded up and queried in the AusSeabed Marine Data Portal?

Answer: The sediment data shows mud, sand, gravel and mean grain size, and Folk classification. Plus all the metadata that tells you the survey the sample links to.

The sediments we show are from the marine sediment database MARS, held at Geoscience Australia. At the moment it provides a snapshot of the MARS, but we have plans to upgrade the MARS database to a better infrastructure and link it live to the AusSeabed Data Portal.

<http://dbforms.ga.gov.au/pls/www/npm.mars.search>

Question: Are there plans to add Maggie's excellent presentation to the AusSeabed Marine Data Portal HELP tab?

Answer: Yes, Maggie's presentation is now available through the [AusSeabed website](#), with plans to have it accessible through the AusSeabed Marine Data Portal this year.

Question: I noticed the specific surveys added to the AusSeabed Marine Data Portal are just recent examples. Is the plan to add other survey data over time?

Answer: Yes, the display of more recent data reflects the recent focus on standing up production infrastructure to deliver data. Now that we have this in place, it is our intent to move through and process older data holdings for distribution.

Question: Is the GitHub accessible to users?

Answer: Yes: <https://github.com/ausseabed/>.

Name	URL	Description
warehouse-ogc-webservices	https://github.com/ausseabed/warehouse-ogc-webservices	A repository that provides Open geospatial consortium webservices (e.g: wms, wcs) through geoserver
ausseabed-aws-foundation	https://github.com/ausseabed/ausseabed-aws-foundation	AWS infrastructure code for AusSeabed
product-catalogue	https://github.com/ausseabed/product-catalogue	Simple web app for managing products through the pipeline
geoserver-rest-client	https://github.com/ausseabed/geoserver-rest-client	Geoserver-rest-api is a set of python api bindings to the REST API of the geoserver product. It has been autogenerated by swagger from the OpenAPI documents provided by geoserver (with some tweaking).
processing-pipeline	https://github.com/ausseabed/processing-pipeline	This repo contains application for Ausseabed processing pipelines.

Question: Relating to the Australian Hydrographic Office, are there plans for further reference areas around Australia?

Answer: Yes, additional Reference areas will be identified and surveyed to support HIPP Operations as the need arises. Other organisations are able to request National Reference Surface surveys via the HIPP request tool on the Survey Coordination Tool with a business case to justify the requested area, these requests will be considered for inclusion in the HIPP program.

The AHO are always eager to hear from other organisations and understand their priorities to better inform their decision making.

Question: Relating to the Australian Hydrographic Office, can you provide a link to the “storymap”?

Answer: Yes, www.hydro.gov.au/NHP.

Commentary and Q&A on the Falkor

Portal

The Falkor datasets are viewable in the tree on the left hand side of the portal

(<https://portal.ga.gov.au/persona/marine>): All Layers -> Bathymetry - Survey -> Visioning the Coral Sea Bathymetry 2020 64m

<https://portal.ga.gov.au/restore/1a9bb6c5-e7dc-455f-9021-10a5294e53b9>

Media

Blog: <https://schmidtocean.org/cruise-log-post/rapid-data-publication-from-ship-to-home/>

3D fly-through: <https://youtu.be/biu2u1Je0eM>

Article: <https://www.nytimes.com/2020/06/26/science/exploration-coral-sea.html>

Question: Falkor did a lot of work in WA also. Have we asked to get that data also for AusSeabed?

Answer: Yes - the layer is on the portal under the Cape Range Canyon Bathymetry, and is listed under the "Elevation and depth > Bathymetry - Survey. Please note that the associated metadata record is due to be published on the 29th of June.

<https://portal.ga.gov.au/restore/442168bc-a8fa-40a6-9cad-81c0bc6a5a7e>



Tara *CSIRO*

That's brilliant exposure - well done team!

Helen *University of Queensland*

A user manual will be great. Would love to give this to students to play around with.

Gina *Kimberley Indigenous Saltwater Advisory Group*

Great, thank you all

Nev *IMAS*

Ta!

Alan *UTAS*

Great webinar. Thanks to everyone who has contributed. Nice to see the latest developments and tools.

David *IIC Technologies Ltd*

Very good effort from all the people

Tim *NSW DPIE*

Thank you to all the presenters and participants - we are so glad you are all involved in AusSeabed - see you next month

Andy *Bureau of Meteorology*

Thanks all.

Shin *GEBCO*

Thank you everybody, great webinar!

Iain *Curtin University*

Thanks to the presenters and organisers for putting a great series of interesting and useful talks.

Jacqueline

Fantastic overview of the program: very informative and presentation was excellent

Tinah *LDEO*

Great webinar, thanks to the presenters and organizers

Gretchen *SARDI Aquatic Sciences*

Thanks to the presenters - great webinar

Natalie *Geoscience Australia*

Thanks so much!

Joe *NSW DPI Fisheries*

Thanks all. Well put together.

Matt *CSIRO*

Good stuff. Great to see the fruits of all the work! Thanks presenters

Emma *O2 Marine*

Thank you, that was great

James *Fugro*

Thanks to all, very informative

Joel *NSW Fisheries*

Thanks Guys!

David *NGA*

Thanks

Gordon *Venture Geomatics Ltd*

Great many thx

Chris *Griffith University*

Thanks

Gleyson *S7*

Amazing

Bill *INPEX*

Great "knock your socks off" presentations, thanks

Evgenia *NIWA*

Thanks Kim and all.

Emily *Australian National Maritime Museum*

I very much enjoyed the webinar of a few weeks past. Congratulations and best of luck in future.

Ralph Talbot-Smith *WA Department of Transport*

What an excellent webinar and especially Maggies Presentation. Everything that I hoped for. Well done on a really professional information session.

Lou *Marine Protected Areas North*

A quick email to pass on our thanks for hosting the AusSeabed Webinar last Thursday! The diversity and breadth of presentations was appreciated and in particular we really enjoyed the insights into the AusSeabed portal. Thanks again Kim, Jacqui and I are really looking forward to the next session.

Scott Nichol *Geoscience Australia*

Fantastic AusSeabed webinar session today led by Kim, Aero, Natalie and Maggie. Great attendance - with 120+ online throughout (national and international). People are loving the new portal already! Well done team!!

Donna Roberts *NCMI*

I wanted to say how much I enjoyed the AusSeabed Webinar yesterday – especially your update from the NMSC. Looking forward to seeing the mid-term report in July!

Gina Lincoln *Mosaic Environmental*

A quick email to say thanks for an informative webinar yesterday. I'm a novice to sea bed mapping science, but a user of remote sensing data and a convert to its application to management, so all of the sessions were of interest.

Thank you!



Future Webinars

Each seminar will be held on the last Thursday of the month from June to September and run from 1100–1245 AEST.

July (30th): Mapping for management in the Anthropocene (with Tools and Standards workshop activities)—[register here](#).

August (27th): Data sharing and collaboration (with Outreach, Education and Engagement workshop activities)—[register here](#).

September (24th): Cross sector talks on the applications of seabed mapping (with program strategy activities)—[register here](#).