

# HYDROSPATIAL 2026: SHAPING THE FUTURE OF MARINE DISCOVERY PROGRAM

## MONDAY 23 MARCH

13:00 - 17:00	Exhibitors bump in	Shed 6
13:00 - 17:00	<b>Registration Opens</b>	Shed 6
13:00 - 17:00	Site/Vessel Tours (TBC) otherwise see <a href="#">conference website</a> for local activities	Various
<b>17:00 - 19:00</b>	<b>Welcome Function</b>	<b>Amongst Trade, Shed 6</b>

## TUESDAY 24 MARCH

8:00 - 17:00	Trade Exhibition Opens	Shed 6
8:00 - 17:00	<b>Registration</b>	Shed 6
8:45 - 9:00	Welcome Address & House Keeping	
9:00 - 9:10	Welcome	
<b>MC of the day: Emily Tidey</b>		
9:10 - 9:40	<b>Keynote: Adam Greenland</b> National Hydrographer of New Zealand, Toitu te Whenua/Land Information New Zealand	
9:40 - 10:00	<b>Shaping the Future of Marine Discovery Session</b> Education: Key to 'Shaping the Future of Marine Discovery' (Takhou Law/David Crossman, IIC)	
10:00 - 10:20	AHS Women in Hydro Experience (Belen Jimenez Baron)	
10:20 - 10:40	A time for renewal: Hydrography Governance and the Australasian Hydrographic Surveyors Certification Scheme (Rebecca Cusack)	
10:40 - 10:50	<b>Special Presentation – Award of AHSCP Certificates</b>	
10:50 - 11:20	Morning tea	Amongst Trade, Shed 6
<b>Coastal Mapping &amp; Bathymetry Session</b>		
11:20 - 11:40	3D Coastal Mapping – Improving Key Baseline Datasets for Aotearoa's Coastal Resilience (Stuart Caie, LINZ)	
11:40 - 12:00	Bridging the Land–Sea Gap: Topo-Bathymetric LiDAR Mapping of New Zealand's Coastline (Colin Cooper/Lara Heitmeyer/Jared Ritchey, NV5)	
12:00 - 12:20	Enhancing Coastal Lidar Efficiency: Leveraging PlanetScope Water Quality Information for the LINZ South Island Topobathymetric Survey (Kyle Goodrich, Tcarta)	

12:20 - 13:35	Lunch	Amongst Trade, Shed 6
12:20 - 13:30	Kaharoa II/Hikitia Vessel Tours, Queens Wharf (book at registration, 30min per tour, 12:25-12:55/13:00-13:30, limited space, bring closed shoes)	
<b>Coastal Mapping &amp; Bathymetry Session cont.</b>		
13:35 - 13:55	Bathymetric Lidar in New Zealand: Then and Now (Michael Christy/Daniel Kruimel/Jeff Lilycrop, Woolpert)	
13:55 - 14:15	3D Coastal Mapping – Data Assessment, Publication and Interpretation (Dr Alysha Johnson, LINZ)	
14:15 - 14:35	Mind the Gap: 3D Coastal Mapping Infill Survey (Olli Rogers/Jimmy Van Der Pauw, DML)	
14:35 - 14:55	The Ins and Outs of Joining Land and Sea (Jennifer Coppola, LINZ)	
14:55 - 15:15	Leveraging Bathymetric Lidar and Sonar in a Coordinated Large-scale Multipurpose Mapping Campaign - Thunder Bay National Marine Sanctuary (Dave Bernstein, NV5)	
15:15 - 15:35	<b>Q&amp;A Time – Coastal Mapping Session speakers</b>	
15:35 – 16:05	Afternoon Tea	Amongst Trade, Shed 6
16:05 - 16:30	Student presentations x5 (Visualizing Anchoring Pressure: Large Commercial Vessel Anchor Chain Scour Predictive Model, Edwin Brooks) TBC....	
16:30 - 16:50	<b>AHS Education Award Recipient Presentation: Meg Catley</b>	
19:00 - 21:30	VIP Dinner (by invitation only)	

## WEDNESDAY 25 MARCH

8:00 - 17:00	Trade Exhibition & Registration Opens	Shed 6
<b>7:30 - 8:30</b>	<b>Early Career/Student Breakfast (Shed 6, please indicate interest on registration)</b>	
<b>MC of the day: Daniel Kruimel</b>		
8:45 - 9:15	<b>Keynote: Commodore Darryn Mullins</b> National Hydrographer of Australia, Australian Hydrographic Office	
<b>Collaborative Seabed Mapping Efforts Session</b> (15min presentation, questions at end)		
09:15 - 09:30	The general bathymetric chart of the oceans (GEBCO) strategy 2024-2030 (John Maschke/Geoffroy Lamarche)	
09:30 - 09:45	Coordinating Australia's Seabed Mapping Future – AusSeabed and the Survey Coordination Tool (Ryan de Wet)	
09:45 - 10:00	Resourcing Australia's Prosperity: A 35-Year Vision for Offshore Mapping (Pip Bricher)	
10:00 - 10:15	Seabed 2030 and Advancing Ocean Mapping: Project Updates and Goals for 2026 (Sam Davidson, Earth Sciences New Zealand)	
10:15 - 10:30	<b>Q&amp;A Time - Collaborative Seabed Mapping Efforts Session</b>	
10:30 - 10:50	Morning tea	Amongst Trade, Shed 6

	<b>S100 Session</b> (15min presentation, questions at end of session)	
10:50 - 11:05	S-100 and e-Navigation in Australia: A national coordination effort (Alvaro Sanchez, AHO)	
11:05 - 11:20	S-100: Integral to Future Marine Discovery (David Crossman/Peter Jensen, IIC Technologies)	
11:20 - 11:35	Towards S-100 for Australia: High resolution coastal model products (Roger Proctor/Alvaro Sanchez, TideTech Pty Ltd/AHO)	
11:35 - 11:50	S-100 and Maritime Domain Awareness: A GIS Perspective on Data-Driven Products and Services (Geoff Dean, Esri)	
11:50 - 12:05	S-102 in the Port Environment: Technical Insights and Operational Impact (Annette Wilkinson/Dave Mundy, LINZ/Southern Hydrographic)	
12:05 - 12:20	An overview of S-100 governance (Verena Bosselmann-Borsos/Marvin Espino, Toitu te Whenua Land Information New Zealand)	
12:20 - 12:40	<b>Q&amp;A Time – S100 Session</b>	
12:40 - 13:50	Lunch	Amongst Trade, Shed 6
12:40 – 13:50	Kaharoa II/Hikitia Vessel Tours, Queens Wharf (book at registration, 30min per tour, 12:45-13:15/13:20-13:50, limited space, bring closed shoes)	
	<b>Challenges to Seabed Mapping Session</b> (15min presentation, questions at end)	
13:50 – 14:05	Addressing the challenges of Topo/Bathy LiDAR in the south west Pacific (Andrew Waddington, Hexagon GCS)	
14:05 - 14:20	Autonomous Underwater Vehicles in Hydrographic Surveys: Opportunities, Challenges, and Charting Accuracy (Tim Garvan/Rhys Davies, Ocean Infinity)	
14:20 - 14:35	The Challenges of Conducting Airborne Lidar Bathymetric Surveys in a Changing Climate (Mick Hawkins, Fugro)	
14:35 - 14:50	Multi-Source Coastal Bathymetry for Hydrosatial Resilience using Sentinel-2, ICESat-2 and SkyTEM in Northland, New Zealand (Salman Ashraf (presenter) Brooke Tozer, Gokul Anand (co-authors), Earth Sciences New Zealand)	
14:50 – 15:05	<b>Q&amp;A Time – Challenges to Seabed Mapping Session</b>	
15:05 – 15:35	Afternoon Tea	Amongst Trade, Shed 6
	<b>Multibeam Surveys and Ports Session</b> (15min presentation, questions at end of session)	
15:35 - 15:50	Innovating Hydroacoustics: New Tools for Shaping the Future of Marine Discovery (Henry Johnson, Kongsberg)	
15:50 – 16:05	Unfolding Vertical Structures: Enhancing Port survey workflows with 3D Coordinate Transformations (Dan Morash, Teledyne CARIS)	
16:05 - 16:20	Multi-frequency multibeam in Fiordland (Emily Tidey, University of Otago)	
16:20 - 16:35	Bathymetric and Terrestrial Survey Innovation for Ports and Harbors (Daniel Kruiemel, Woolpert)	
16:35 – 16:50	Update on HIPP in Fjord (Steve Duffield, Reach Subsea)	
16:50 – 17:05	<b>Q&amp;A Time – Multibeam Surveys and Ports Session</b>	
<b>19:00 - 22:30</b>	<b>Conference Dinner &amp; Conference Dinner Speaker: Bill Day, Seaworks</b>	<b>Foxglove Bar &amp; Kitchen</b>

## THURSDAY 26 MARCH

8:00 - 15:15 Trade Exhibition & Registration Opens

Shed 6

### MC of the day: Brad Cooper

	<b>Environmental Protection &amp; Marine Reserves Session</b> (15min presentation, questions at end of session)	
8:45 - 9:00	Scratching the Surface: Human Impacts Across NZ's Marine/Freshwater Environments (Sam Davidson, Earth Sciences New Zealand)	
9:00 - 9:15	Reshaping Reserves: Exploring the Gaps in Marine Reserve Boundaries Through a Past-Present-Future Approach (Georgia Pendred, DML)	
9:15 - 9:30	Beyond bathymetry: Diving into the world of multibeam water column data and seep detection (Alicia Maurice, Earth Sciences New Zealand)	
9:30 - 9:45	SmartCoast2 and Net Ecosystem Value: A Digital Twin Approach to Climate Resilience in the Torres Strait (Paul Seaton/Mick Hawkins, Fugro)	
9:45 - 10:00	Evaluating Seabed Pressure from Merchant Vessel Anchoring in New Zealand (Hendra Febriawan, Earth Sciences New Zealand)	
10:00 - 10:15	<b>Q&amp;A Time – Environmental Protection &amp; Marine Reserves Session</b>	
10:15 - 10:45	Morning tea	Amongst Trade, Shed 6
	<b>Regional Scale Mapping Session</b> (15min presentation, questions at end of session)	
10:45 - 11:00	High-Resolution Bathymetric Evidence of Bedforms Indicative of Caldera Water Exchange at Hunga Volcano (Hannah St Louis, Auckland University of Technology)	
11:00 - 11:15	Experiences with jamming of GNSS in the European and Mid East marine environment (Gary Chisholm)	
16:30 - 17:00	Shaping the Future of Marine Discovery Through Sustainable Hydrospatial Capability in the Pacific (Christopher Saili, Kahuto Pacific)	
11:30 - 11:45	Discovery through collaboration – RV Investigator's contributions to mapping volcanoes in the Pacific Region (Christopher Yuleridge, CSIRO)	
11:45 - 12:00	<b>Q&amp;A Time – Regional Scale Mapping Session</b>	
12:00 - 13:00	Lunch	Amongst Trade, Shed 6
	<b>Innovation Session</b> (15min presentation, questions at end of session)	
13:00 - 13:15	Marine AI from a Hydrographer's Perspective: Enhancing Watchkeeping and Wildlife Observations with Technology (Dillon Shields, DML)	
13:15 - 13:30	Building an Innovation Ecosystem for Shaping the future of Marine Discovery in the Asia-Pacific (Chris Kennedy, Cyan Renewables)	
13:30 - 13:45	The Fourth Dimension in Coastal Management: Monitoring Seafloor Dynamics from Space (Emily Twiggs, EOMAP – A Fugro Company)	
13:45 - 14:00	Bridging Sea Level and Vertical Land Motion: A Low-Cost GNSS Approach (Joe Eu Heng, University of Otago)	
14:00 - 14:15	The use of Unmanned Surface Vessels and AI to remove data bottlenecks (Richard Dowdeswell, Cory Brooks)	

14:15 - 14:30 TBC

14:30 - 14:45 **Q&A Time – Innovation Session**

14:45 - 15:00 Closing Remarks & Conference Wrap Up

15:00 - 15:30 Afternoon Tea & End of Conference Amongst Trade, Shed 6

15:30 - 16:45 Exhibitors bump out

16:45 Contractor removes booths