





View Abstracts [Here](#)  
Colour key/Themes below:

Keynotes	Planning & People	Ports & Infrastructure	Science	Nature & Ecosystems	<u>Student Presenters</u>
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Time	Tuesday 18 November		
6:00 - 7:00pm	Registration		
6:00 – 9.00pm	<div>Ice Breaker Function</div> <div>The National Aquarium - 546 Marine Parade, Napier</div> <div>Brought to you by:</div> <div></div>		
Time	Wednesday 19 November		
7.30 – 9.00am	<div>Eric Verstappen Emerging Professionals Breakfast</div> <div>Elicious Eatery - 19 Clive Square West, Napier</div> <div>Brought to you by:</div> <div></div>		
8:00 – 9.00am	Registration & Coffee		
9:00 – 9.20am	Mihi Whakatau – Welcome and Conference Opening Natusch Ball Room		
9.20 – 10.20am	<div>Keynote</div> <div>Natusch Ball Room</div> <div>Hinewai Ormsby - TBC</div>		
10.20 – 10.50am	Morning Tea		
SESSION 1	Coastal Hazards Natusch Ball Room Chair: TBC	Beyond NZ Breakout Room 1 Chair: TBC	Water Quality and Ecology Breakout Room 2 Chair: TBC
10.50am	NZTA Coastal Hazards Guide for Land Transport Infrastructure David Greig – NZTA	Evacuation Behaviour during Tsunamis in Sri Lanka Chamika Kannangara – RMIT University, Australia	An assessment of the threats and vulnerabilities of pīkao (Ficinica spiralis) in Ōtākou (Otago). <u>Rose Somerville</u> – University of Otago
11.10am	A design approach for rock sizing revetments in beyond shallow conditions <u>Ben Batchelor-Cook</u> – University of Auckland	Flood Resilience in Fiji’s Coastal Villages Through Integrated Modelling and Nature-Based Solutions Joao Castro – eCoast	Seagrass (Zostera muelleri) Recovery and Seasonal Dynamics Following Sand Excavation in Matapouri Estuary, New Zealand Pamela Kane-Sanderson_– SLR Consulting Ltd

# Ahuriri Napier 2025 – Programme [draft]

11.30am	<b>Designing a temporary beach structure to mitigate swash energy during storms</b> Catriona Thompson – University of Auckland	<b>Adaptive Design and Long-Term Planning: Building Resilience in Pacific Atoll Nations</b> Holly Blakely – Tonkin + Taylor	<b>Deep learning in the shallows: An automated approach to mapping variability of hāpua morphodynamics in Aotearoa New Zealand</b> <u>Harper Spurway</u> – Avondale College
11.50am	<b>End-of-Century Shoreline Change Projections in Aotearoa New Zealand: Our Changing Coasts Project</b> Eduardo Gomez-de la Pena, – University of Auckland	<b>Integrated pedestrian and car agent-based models of tsunami evacuation</b> <u>Constanza Flores</u> – University of Canterbury	<b>Enabling Coastal Stewardship: The Role of Taxonomy in Marine Monitoring and Biosecurity</b> Paul Wolf – Ocean Wolf
12.10pm	<b>Future Coastal Change: Modelling 3D Coastal Evolution for Informing Hazards, Exposure and Adaptation</b> Eddie Beetham – Tonkin + Taylor		<b>After the storm: Impacts of Cyclone Gabrielle on sedimentation and estuarine communities</b> Georgina Flowers – Hawke’s Bay Regional Council
12.30 – 1.30pm	Lunch		
1:30 – 5.30pm	<div><div>Field Trips</div><div><ul style="list-style-type: none"><li>Napier Ports Tour</li><li>Coastal Strategy – Southern Cells Visit</li><li>Te Whanganui-ā-Orotū (Ahuriri Estuary)</li></ul></div><div><div>Brought to you by:</div><div><div>ecoreef</div><div></div></div></div></div>		
5.30 – 7.30	<div><div>NZCS/PIANC Young Professionals Networking The Pavillion, 49 Marine Parade, Napier South</div><div><div>Brought to you by:</div><div></div></div></div>		
Time	Thursday 20 November		
8:00 – 8:55am	Registration and Tea Coffee		
9:15 – 9.55am	<div><div>Keynote</div><div>Natusch Ball Room</div><div>Kris Faafoi - TBC</div></div>		
SESSION 2	<div><div>Lightning Talks / Poster Session</div><div>Room TBC</div><div>Chair: TBC</div></div>	<div><div>Big Data</div><div>Room TBC</div><div>Chair: TBC</div></div>	
10.00am	<div><div>Lightning Talks</div><div><ul style="list-style-type: none"><li><u>Preston Malaufiti</u>, University of Otago -“ Variability of bioactive compounds within Undaria pinnatifida in Otago Harbour”</li></ul></div></div>	<div><div>Harnessing high resolution topo-bathymetric data for coastal zone management</div><div>Jeff Lillycrop - Woolpert</div></div>	

# Ahuriri Napier 2025 – Programme [draft]

10.20am	<p>Posters (no-lightning talk)</p> <ul style="list-style-type: none"><li><b>Jokotola Omidiji, Auckland Council</b> – <i>“Balancing Acts: Coastal Erosion, Public Space, and Private Seawalls on Esplanade Reserves”</i></li><li><b><u>Malintha Ranasinghe</u>, Massey University</b> – <i>“HydroNetNZ: A Crowd-sourced and Machine Learning Driven Approach for Impact-Based Flood Forecasting and Warning at Household Level in New Zealand”</i></li><li><b>Nazli Raudhati, IPB University</b> – <i>“Spatial Analysis of Blue Carbon Potential in the Mangrove Ecosystem at Muara Gembong Beach-Indonesia, as a Climate Change Mitigation Effort”</i></li><li><b>Paul Wolf, Ocean Wolf</b> – <i>“A 6,000m² Challenge: Responding to the Ficopomatus Infestation in Ahuriri Estuary”</i></li><li><b>Ruby Mckenzie Sheat, Earth Sciences New Zealand</b> – <i>“Iwi-led consequence modelling of inundation hazards: a case study at Te Pokohiwi o Kupe   Wairau Bar”</i></li><li><b>Ryan Paulik, Earth Sciences New Zealand</b> – <i>“RiskScape: A modelling engine for coastal hazard risk analysis”</i></li><li><b>Simone Phillips, Massey University</b> – <i>“Community voices in flood warning systems: Learning from local initiatives in Aotearoa New Zealand”</i></li><li><b>Ted Conroy, eCoast</b> – <i>“Hydrodynamic Modelling of Circulation and Sediment Transport in Hawke Bay and the Impacts of Cyclone Gabrielle”</i></li></ul>		<p><b>Enabling Coastal Data Workflows Through a Unified Data Model and Cloud-Native Infrastructure</b> Jana Echave - OCEANUM</p>
10.40 – 11.10am	Morning Tea		
SESSION 3	<p>Coastal Resilience Natusch Ball Room Chair: TBC</p>	<p>Big Data Cont... Breakout Room 1 Chair: TBC</p>	<p>Ecology Breakout Room 2 Chair: TBC</p>
11.10am	<p><b>A Multifaceted and Interconnected Modelling Framework to Build coastal Resilience –Saint Clair Saint Kilda</b> Ed Atkin - eCoast</p>	<p><b>Big data for little agents – identifying agent classes for climate change adaptation simulation using a serious online game</b> Andrew Allison – Urban Intelligence</p>	<p><b>Heatwave impacts in estuaries: implications for ecosystem resilience and carbon cycling</b> Emily Douglas – Earth Sciences New Zealand</p>
11.30am	<p><b>Developing a technical coastal program to build coastal resilience – the Saint Clair Saint Kilda case study</b> Raphael Krier-Mariani – Dunedin City Council</p>	<p><b>Seascope Aotearoa: An Open-Access Platform for Integrated Ocean Observations and Forecasts</b> Remy Zyngfogel- Calypso Science Ltd</p>	<p><b>Ecological Considerations for Coastal Hazard Mitigation: Enhancing Outcomes for Coastal Ecosystems</b> Anna Madarasz-Smith – Pattle Delamore Partners</p>
11.50am	<p><b>The effects of structural complexity on the turbulent structure around cubic artificial reefs: An Experimental Study with Ecological Insights</b> <u>Jialin Zhao</u> - University of Auckland</p>	<p><b>Harnessing big data to inform fisheries and coastal management</b> Jean P. Davis – Fisheries New Zealand</p>	<p><b>Looking beneath the surface: The subtidal habitats of Hawke’s Bay</b> Andrea Glockner – Hawke’s Bay Regional Council</p>
12.10pm	<p><b>Beyond bathtub modelling: An assessment of built environment exposure to inundation as sea levels rise</b> <u>Ashlee Blaymires</u> – University of Auckland</p>	<p><b>Improving Key Baseline Datasets for Aotearoa's Coastal Resilience</b> Stuart Caie - Toitū Te Whenua Land Information New Zealand (LINZ)</p>	<p><b>Measuring the impacts of ship anchoring</b> Sally J. Watson – Earth Sciences New Zealand</p>
12.30 – 1.30pm	Lunch		

# Ahuriri Napier 2025 – Programme [draft]

SESSION 4	Resilience and Adaptation Natusch Ball Room Chair: TBC	Flooding Breakout Room 1 Chair: TBC	Physical Processes Breakout Room 2 Chair: TBC
1.30pm	Moanataiari inundation protection over 5 decades, but what next? John Duder – Tonkin + Taylor	The influence of Sea Level Rise on Freshwater Flooding around Aotearoa New Zealand Emily Lane – Earth Sciences New Zealand	Monitoring and modelling the supply of beach grade sediment from rivers to the coast Richard Measures – Earth Sciences New Zealand
1.50pm	Four Years On: Starting and Sustaining Community-led Climate Adaptation in the Bay of Plenty Ana Serrano – Bay of Plenty Regional Council	Using an equilibrium model to explore the influence of climate variations on estuarine evolution <u>Edouard Basquin</u> – University of Auckland	Wellington Airport Southern Seawall Renewal – armour unit selection process and 2D physical model testing Amy Sheppard – Beca
2.10pm	Ngā Herenga o Papatūānuku: Establishing a tangata whenua climate adaptation network Shari Gallop – Pattle Delamore Partners	Challenges in Applying National-Scale Coastal Flood Risk Information across Pacific Island Contexts Shaun Williams – Earth Sciences New Zealand	Large Woody Debris on the beaches of Gisborne Tairāwhiti Murry Cave – Gisborne District Council
2.30pm	He raru ki tai - Walking uneasily between two worlds Sam Scott-Kelly – David Coastal Consultants	Dynamics of flood inundation and barrier beach evolution in the Lower Kowai River Cindy Asmat – University of Canterbury	Extent of contemporary and late Holocene marine terrace cover deposits on Kaikōura Peninsula Sophie Horton – University of Canterbury
2.50pm	Nature based solution feasibility case studies on the Canterbury Coast Lana Greig – Jacobs	The compound flood during ex-TC Gabrielle could have been forecasted with operational flood model forced by high-resolution numerical weather prediction Zhonghou Xu – Earth Sciences New Zealand	Where Stormwater Meets the Sea: Integrating Coastal Outfalls into Auckland Council’s Inlets and Outfalls Guideline Ryan Abrey – Stantec
3.10 – 3.40pm	Afternoon Tea		
SESSION 5	Resilience and Adaptation Natusch Ball Room Chair: TBC		Physical Processes cont... Breakout Room 2 Chair: TBC
3.40pm	The transforming coastline of Tamaki Makaurau in the wake of a triple dip La Nina cycle Matthew McNeil - Auckland Council		The influence of nearshore submerged flats structures on wave refraction and energy distribution patterns Raphael, Krier-Mariani – Dunedin City Council
4.00pm	An adaptation planning decision-making process for infrastructure owners Sian A. John - Haskoning New Zealand		Cliff erosion by wave abrasion: Insights from wave flume experiments Yaxiong Shen - University of Auckland
4.20pm	Tailoring hazard management responses - Bridging the gap between policy direction and real-world feasibility in coastal management Ivana Jurasovic – Davis Coastal Consultants		River Radii: A National Framework for Satellite Remote Monitoring of Water Quality and Environmental Change at River Mouths François Thorat – University of Waikato
4.40pm			Field methods used to monitor colonisation of subtidal reef enhancement units Jack O’Carroll – SLR Consulting Ltd
6.00 - Late	Conference Dinner The Napier War Memorial  Brought to you by: 		

	<b>Friday 21 November</b>		
<b>9.00 – 10.00am</b>	<b>Keynote</b> Natusch Ball Room <b>Richard Reinen-Hamill - TBC</b>		
<b>SESSION 6</b>	<b>Special Session – Land based inputs and nearshore coastal ecosystems</b> Natusch Ball Room Chair: TBC	<b>Coastal Hazards / Coastal Change / Assets</b> Breakout Room 1 Chair: TBC	
<b>10.00am</b>	<b>Focusing Indigenous Knowledge and Community on Reef Resilience</b> Rahera Ohia – University of Waikato	<b>Otago coastal hazards monitoring planning</b> Julion Wright – Otago Regional Council	
<b>10.20am</b>	<b>What happens to coastal productivity when the lights go out and reefs are buried in mud?</b> Christopher Battershill – University of Waikato	<b>Asset Management Planning for specialised Assets: Auckland Council’s first Coastal AMP</b> Marli A. Geldenhuys – Auckland Council	
<b>10.40am</b>	<b>Morning Tea</b>		
<b>SESSION 7</b>	<b>Special Session – Land based inputs and nearshore coastal ecosystems</b> Natusch Ball Room Chair: TBC	<b>Coastal Hazards</b> Breakout Room 1 Chair: TBC	
<b>11.10am</b>	<b>The value of intact marine ecosystems – can we please manage for that?</b> David Schiel - University of Canterbury	<b>Understanding Coastal Change in Tāmaki Makaurau: Key Insights from Auckland Council’s Coastal Monitoring Programme</b> Megan Tuck - Auckland Council	
<b>11.30am</b>	<b>Evidence of coastal darkening and marine darkwaves: Towards an operational framework leveraging remote sensing to link land practices to coastal ecosystems health in Aotearoa New Zealand</b> François Thorat – University of Waikato	<b>The role of infrastructure provision in defining coastal hazard planning rules in District Plans – case study Christchurch</b> Alison Bear - Jacobs	
<b>11.50am</b>	<b>Panel Q&amp;A</b>		
<b>12.10 – 1.10pm</b>	<b>Lunch   NZCS AGM</b> Natusch Ball Room		
<b>1.10 – 1.30pm</b>	<b>Conference Awards and Closing</b>		