

Programme (at 08.10.26)



The Ocean in a High-CO₂ World
Ocean Acidification
 6th International Science Symposium
 13–16 OCTOBER 2026 • TĀKINA WELLINGTON

MONDAY 12 OCTOBER

	Pre-Symposium Meetings – by invite only (Level 1, Tākina Wellington Convention & Exhibition Centre)	
09.00 - 17.00	Building a More Global mCDR Scientific Community (The Ocean Foundation's EquiSea's 2026 mCDR Scientific Cohort) Room: Mātiu	Advancing Priority Science and Policy Action on Ocean Acidification in the Asia-Pacific Region Room: Mākaro
09.30 - 17.00	Changing Ocean Biological Systems (SCOR Infrastructural Project) Room: Mokopuna	
13.00 - 17.00	GOA-ON Executive Council Room: Rongomātāne A	
17.30 - 19.30	Icebreaker (St Johns Bar and Eatery, 5 Cable Street)	

TUESDAY 13 OCTOBER

08.00 - 19.30	Registration & Exhibition Open (Level 1, Tākina Wellington Convention & Exhibition Centre)	
09.00 - 09.50	Mihi Whakatau & Symposium Open in Rongomātāne	
09.50 - 10.30	Keynote 1: Nathan Kenny (University of Otago) Safeguarding Taonga in a Changing World: Leveraging Genomics for Climate-Resilient Kaimoana in Aotearoa New Zealand	
10.30 - 11.10	Keynote 2: Cana Uluak Itchuaqiyag (Center for Sustainable Engagement in the Arctic Virginia Tech) "Our Own Cultural Rules": Indigenous Leadership and the Future of Arctic Ocean Stewardship	
11.10 - 11.45	Morning Tea Break in the Exhibition area	

11.45 - 13.00	1A: Assessing high-CO₂ and multi-stressor effects on aquatic organisms using natural laboratories of climate change Room: Rongomātāne A Chairs: Ivan Nagelkerken & Davide Spatafora	1B: Knowledge systems: Understanding a high-CO₂ Arctic: observations, modeling, impacts, and emerging approaches across scientific and Indigenous knowledge systems Room: Rongomātāne B Chairs: Kumiko Azetsu-Scott & Kararaina Te Puni	1C: Ocean Solutions: Global Ocean acidification observing network perspectives on ocean solutions Room: Rongomātāne C Chairs: Helen Findlay & Treasure Warren	1D: Technological advances: New approaches for quantifying variability and human impacts on ocean biogeochemistry from sparse observational data Room: Mātiu Chairs: Neill Mackay & Larissa Dias	1E: Global-driven changes in biodiversity: OA in Mediterranean Room: Mākaro Chairs: Iris Hendriks & Leah Warlow
11.45 - 12.00	Natural analogues of climate change as a tool to study processes from genes to ecosystems Ivan Nagelkerken	Bringing Together Indigenous Observations and Ocean Modeling to Understand Arctic Extreme Events Claudine Hauri	Addressing the current metrology challenges involved in quantification of baseline conditions for mCDR in coastal and open ocean environments Peter Croot	Drivers of Coastal Acidification in the surface and subsurface waters of the Northern California Current Ecosystem Richard Feely	Acidification and warming of Atlantic and Mediterranean water masses in the Strait of Gibraltar: insights from a 20-year time series Emma Huertas & Susana Flecha
12.00 - 12.15	Molecular basis and behavioral adjustments reveal potential local adaptation to acidifying oceans, a lesson from natural analogues Timothy Ravasi	Community and Indigenous-led observations are essential for understanding the effects of marine climate change Donna Hauser	Diel pH and pCO₂ trends in estuarine mariculture sites in Pangasinan, Northwestern Philippines Jherome Co & Charissa Ferrera	Ocean Carbon Accumulation and Variability Revealed by a High-Resolution Mapped Observational Data Product Jonathan Sharp	Compound emergence of warming, deoxygenation and acidification across western Mediterranean water masses Susana Flecha
12.15 - 12.30	Temperature structures sea urchin responses to ocean acidification across global CO₂ seeps Callum Hudson	Sensitivity of Arctic Ocean CO₂ Uptake to Carbon Release from Seafloor Sediments Yuanxin Zhang	Biological thresholds and monitoring needs for ocean alkalinity enhancement across marine taxa Nina Bednarsek	Spatial variability of seawater pH along the northern Antarctic Peninsula during the austral summer Thiago Monteiro	Seagrass Carbon Sinks in a Changing Ocean: Insights from Multi-Scale Responses to Ocean Acidification Theodor Kindeberg
12.30 - 12.45	The effects of ocean acidification to coral eco-physiology seen from shallow CO₂ vents studies Sylvain Agostini	Ocean acidification may increase the biological impact of legacy metal pollution; a study of mine waste deposits in Arctic Norway Sam Rastrick	Speed Talks: Ocean Acidification in Papua New Guinea: Challenges, Opportunities, and Next Steps for Action Maisy Lus Pacific Islands Ocean Acidification Centre Miriama Vuiyasawa	A sensor-informed fluid model for mapping reef ventilation and potential deoxygenation Tadd Truscott	Discussion
12.45 - 13.00	Assessment of community photosynthesis of macroalgal beds using volcanic CO₂ seep Shigeki Wada	Discussion	Monitoring of physico-chemical parameters related to ocean acidification: The case of Mauritius Kishore Boodhoo	Discussion	
13.00 - 13.45	Lunch in the Exhibition Area				
13.30 - 15.30	Field Trip - Zealandia Te Māra a Tāne Day Tour				

13.45 - 15.45	Workshops, Discussions & Trainings					
	Room: Rongomātāne A Time: 13.45 - 15.45	Rongomātāne B Time: 13.45 - 15.45	Room: Rongomātāne C Time: 13.45 - 15.45	Room: Mātiu Time: 13.45 - 15.45	Room: Mākaro Time: 13.45 - 15.45	Room: Mokopuna Time: 13.45 - 15.45
	Ocean Acidification Capacity Sharing - A call for action and implementation	Future Coastal Food Systems: Methods for catalysing transformation pathways	Marine policy engagement 101 for early career scientists	Using natural analogues to investigate the effects of climate change and ocean acidification	Sharing Experiences from Polar to Tropical seas: Learning across knowledge systems to guide action	Designing and analysing multiple driver experiments - Day 1
15.30 - 16.00	Afternoon Tea Break in the Exhibition Area					
16.00 - 18.00	2A: Ocean Deoxygenation: A twin threat to ocean health in a high-CO₂ world Room: Rongomātāne A Chairs: Ariel Pezner & Max Dhillon	2B: Knowledge Systems: The River-Ocean Nexus: Freshwater acidification in a high-CO₂ world Room: Rongomātāne B Chairs: Adam Hartland & Victoria Cantalapiedra Mateo	2C: Ocean Solutions Room: Rongomātāne C Chairs: Steeve Comeau & Theodor Kindeberg	2D: Multiple Stressors Room: Mātiu Chairs: Norman Ragg & Aubrey McDermott	2E: Beyond Tipping Points: Financing Ocean Futures: From OA research to coastal safeguards Room: Mākaro Chairs: Anwesh Ghosh & Alvin Chandra	
16.00 - 16.15	Invited: Hot, Acidic, and Out of Breath: Understanding the Impacts of Ocean Deoxygenation in a Changing Ocean Ariel Pezner	The river-ocean nexus in a high-CO₂ world: freshwater acidification, carbonate chemistry, and the missing terrestrial bridge Adam Hartland	Effect of marine shells on total alkalinity in CO₂-acidified seawater Cecilia Chapa Balcorta	Oyster Immune Response to Multiple Climate Change Stressors: Synthesising Responses with Experimental Applications Jasmine Glencross	Scaling Marine Carbon Dioxide Removal through Coastal Ecosystems: A Multisectoral Approach to Nature-Based Coastal Carbon Removal in the 'Global South' Anwesh Ghosh	
16.15 - 16.30		He kaakahi whakairoiro, he kaeo whakahirahira: How will our taonga evolve with the taiao? Tyla Hill Moana	Channeling Expertise: Capacity-Strengthening Pathways to Bridge Ocean Acidification Science and Marine Carbon Dioxide Removal Research Meagan Gary	Effects of multiple stressors on the low-pH tolerance of the wrinkled rock-borer, <i>Hiatella arctica</i> Aubrey McDermott	Engaging philanthropy, development banks and the UNFCCC on funding ocean acidification science to policy: lessons learned Jessie Turner	
16.30 - 16.45	Take my breath away: effects of hypoxic events on coral photometabolism in a high-temperature environment Lucia Gastoldi	The impacts of freshwater acidification on microalgal and cyanobacterial communities in Te Awa o Waikato Victoria Cantalapiedra Mateo	Crowding the Coast: Plume Interactions Reduce CO₂ Uptake from Closely Spaced Alkalinity Outfalls Harris Anderson	Hot Families: Can We Use Selective Breeding to Produce More Heat-Tolerant Greenshell Mussels? Norman Ragg	Vulnerability Assessment of Ocean Acidification in Papua New Guinea's Coastal and Marine Ecosystems Alvin Chandra & Maisy Lus	
16.45 - 17.00	Hidden hypoxia contributes to coral bleaching through a mass transport-metabolism tipping point Tadd Truscott	Freshwater-seawater mixing and major phytoplankton groups modulate CO₂ dynamics in a subtropical estuary Matheus Batista	The effects of moderate and high ocean alkalinity enhancement on phytoplankton growth and photophysiology using a model diatom and coccolithophore Leah Warlow	Ocean Acidification Impairs Survival and Biological Integrity in the Green Mussel (<i>Perna viridis</i>) Md. Eyasin Ali	Advancing Priority Science and Policy Action on Ocean Acidification in the Asia-Pacific Region Jessie Turner	

17.00 - 17.15	Oxygen deprivation implicated in rapid coral mortality under acute heating events Max S. Dhillon	Interconnected Dynamics of Plant Growth and Carbon Dioxide Fluxes in Lake Karāpiro under different physical regimes Farzaneh Taheri	Towards constraining the efficiency of ocean alkalinity enhancement: A Canadian Earth System Model study Krysten Rutherford	Contrasting strategies of cellular pH regulation shape coral calcification responses to ocean warming and acidification Erik Krieger	Panel Discussion
17.15 - 17.30	Coral responses to repeated ocean acidification and deoxygenation depend on exposure frequency and species tolerance Verena Schoepf	Amazon River plume control on carbonate chemistry in the western Tropical Atlantic Matheus Batista	Influence of suspension-feeding bivalve <i>Austrovenus stutchburyi</i> on alkalinity dynamics in a sandy intertidal estuary Elli Leinikki	Using oxidative proteomics to unravel the molecular regulation of coral bleaching in the model organism <i>Exaiptasia diaphana</i> Lénaïc Chagnat	
17.30 - 17.45	Sponges tolerate projected end-of-century ocean warming, acidification and deoxygenation Barbara Graham	Discussion	The local alkalinity enhancement of seawater increases shell biomineralization and growth, buffering the effect of Ocean Acidification on shellfish juveniles Laura Sordo	Speed Talks: Simulated Atmospheric Heatwave Suppresses Immune Function in Sydney Rock Oyster (<i>Saccostrea glomerata</i>) Jasmin Kamarulzaman Mapping Potential Multi-Stressor Exposure in Marine Systems: A 4D GIS-Based Approach Virginia Morejón Thermal resilience of <i>Antipathella fiordensis</i>: mechanisms of cold-water coral response to marine heatwaves Amber Kirk Key role of heterotrophy in mitigating thermal stress in corals naturally exposed to extremes environmental conditions Layla Iijima	
17.45 - 18.00	Discussion		Discussion		
18.00 - 19.30	Welcome Reception & Poster Session 1 in the Exhibition Area – canapes & drinks provided				
19.30 - 22.00	Early Career Researcher Function at Garage Project, Leeds Street				

WEDNESDAY 14 OCTOBER	
08.00	Registration & Exhibition Open (Level 1, Tākina Wellington Convention & Exhibition Centre)
09.00 - 09.10	Welcome in Rongomātāne A
09.10 - 09.50	Keynote 3: Maria Byrne (University of Sydney) Marine invertebrates are feeling it hot hot hot - multistressor impacts in a heatwave ocean and atmosphere
09.50 - 10.30	Keynote 4: Ben Harvey (University of Tsukuba, Shimoda Marine Research Center) From complexity to simplicity: ecosystem reorganisation in a high-CO ₂ ocean
10.30 - 11.00	Morning Tea Break in the Exhibition area

11.00 - 13.00	3A: Assessing high-CO₂ and multi-stressor effects on aquatic organisms using natural laboratories of climate change Room: Rongomātāne A Chairs: Sylvain Agostini & Davide Spatafora	3B: Beyond Tipping Points: From data to decisions, operationalizing interdisciplinary ocean acidification knowledge Room: Rongomātāne B Chairs: Erica Ombres & Maurice Oti Edusei	3C: Ocean Solutions: Alkalinity cycling in a changing ocean Room: Rongomātāne C Chairs: Michael Ellwood & Elli Leinikki	3D: Modulating role of time Room: Mātiu Chairs: Piero Calosi & Denisa Berbece	3E: Engage, Exchange, Collaborate Room: Mākaro Chair: The Ocean Foundation
11.00 - 11.15	Shifts in benthic trait diversity and ecosystem functioning at natural CO₂ vents: an ecosystem property perspective Núria Teixidó	Integrating Social Science with Natural Science to Inform Society Erica Ombres	Coastal sediment alkalinity fluxes and their implications for mineral-based ocean alkalinity enhancement (OAE) Grace Andrews	Adaptive remodelling of cell membranes and energy substrate use under ocean warming and acidification in a ubiquitous marine copepod Piero Calosi	Engage, Exchange, Collaborate: The mCDR Networking Event
11.15 - 11.30	Ocean Acidification Across Life Stages: Effects on Early Development and Thallus Strength in Fucus vesiculosus Alexandra Kinnby	Developing information products to inform ocean change adaptation and resilience planning by tribal and state managers of Washington's Olympic Coast Jan Newton	Natural shelf seafloor feedbacks to changing ocean carbonate chemistry Sebastiaan Van De Velde	Mesoscale environmental mosaics modulate phenotypic plasticity under multi-scale environmental variability in coastal upwelling systems Cristian Vargas	
11.30 - 11.45	Biological response to ocean alkalinity enhancement as a multiple stressors problem Sam Dupont	Advancing Towards Adaptation in the Chesapeake Bay Region: The Trajectory of Three Resiliency and Vulnerability Assessment Projects Emily Rivest	A biophysical modelling framework for evaluating potential OAE in Aotearoa New Zealand's Exclusive Economic Zone Charine Collins	Revisiting the Mechanisms of Adaptation After 200 Generations of Simultaneous Ocean Warming and Acidification in a Widespread Marine Copepod Victoria Glynn	
11.45 - 12.00	Are mussel responses to ocean acidification consistent across natural laboratories of elevated CO₂? Renata Ramos Gomes	Modeling the spatiotemporal effects of ocean acidification and warming on Atlantic sea scallop growth to guide adaptive fisheries management Halle Berger	South Atlantic Ocean surface acidification in a high atmospheric CO₂ world Raquel Renó De Oliveira	Cross-generational plasticity and the interaction between environmental stressors Jennifer Donelson	
12.00 - 12.15	eDNA and visual transect examinations of benthic communities in Palau's natural laboratory environments James Reimer	Ocean acidification and blue food security: mapping two overlapping regime complexes Annika Frosch	Advancing our understanding of Ocean Alkalinity Enhancement natural analogs in the Gulf of Tehuantepec, Mexico Cecilia Chapa-Balcorta	Transgenerational plasticity responses differ across genetically distinct families in the Sydney rock oyster, Saccostrea glomerata Laura Parker	
12.15 - 12.30	Conservation needs for shallow marine vents and seeps? Marco Milazzo	Embedding climate risk modelling in pāua quota valuation to uphold socio ecological and financial values in Aotearoa New Zealand Katherine Short	Empirical models of total alkalinity in the Southwestern Atlantic: A regional approach to carbonate system estimation Santiago Basaños	Transgenerational maternally-provided lipid composition & quantification in early-life stages of Perna canaliculus under differing OA conditions Jenn Jury	

12.30 - 12.45	Speed Talks: Dietary plasticity allows a dominant herbivore to persist on simplified reefs under ocean warming and acidification Annie Marek Temperate coral populations naturally occurring in high pCO ₂ environments Núria Teixidó From Inventory to Monitoring Readiness: Reassessing Naturally Acidified Marine Sites as High-CO ₂ Natural Laboratories Daniela Andrea Saltos Aguilar Volcanically driven CO ₂ emissions in Antarctic coastal systems: insights from Deception Island Gabriel Navarro Engineer of the future: the intertidal mussel <i>Brachidontes rodriguezii</i> (Bivalvia: Mytilidae) shows resilience under acidified conditions María del Mar Eivers	Speed Talks: Defining ecological vulnerability to ocean and coastal acidification in the Mid-Atlantic region of the United States Emily Rivest Carbonate Chemistry Variability and Air Sea CO ₂ Fluxes on the Ghana Shelf in a Coastal Upwelling System Maurice Oti Edusei Real-Time Coastal Ocean Monitoring with Portable Mini-Mooring Network Enabling OA Event Reporting for Southern California Charles Lindsay A synthesis of data products for ocean carbonate chemistry Liqing Jiang Taking a dive into El Veril: Constraining coastal carbonate system variability through citizen science at a coastal site in Argentina Carla Berghoff	Using a natural analogue to assess Ocean Alkalinity Enhancement: An Aotearoa New Zealand case study Cliff Law		Genetic variation and phenotypic plasticity in the response to ocean acidification Timothy Ravasi	
12.45 - 13.00	Discussion	Discussion	Discussion		Both parent exposure to elevated pCO ₂ and genetics influence embryo resilience to ocean acidification in the green-lipped mussel, <i>Perna canaliculus</i> Norman Ragg	
13.00 - 13.45	Lunch in the Exhibition Area					
13.30 - 16.00	Field Trip - Te Whanganui-a-Tara Waka Tour					
13.45 - 15.45	Workshops, Discussions & Trainings					
	Room: Rongomātāne A Time: 13.45 - 15.45	Rongomātāne B Time: 13.45 - 15.45	Room: Rongomātāne C Time: 13.45 - 15.45	Room: Mātiu Time: 13.45 - 15.45	Room: Mākaro Time: 13.45 - 15.45	Room: Mokopuna Time: 13.45 - 15.45
	Beyond Tipping Points: A framework to safeguard biodiversity in a changing ocean in support of the GBF and BBNJ	Ocean Acidification in Africa’s High-CO ₂ Future: From Observation to Action	Exploring the OA-mCDR Connection: A community discussion for OA Practitioners		Speed mentoring with Pier2Peer	
15.30 - 16.00	Afternoon Tea Break in the Exhibition Area					

16.00 - 18.00	4A: Multiple stressors Room: Rongomātāne A Chairs: Catriona Hurd & Holly Koch	4B: Beyond tipping points Room: Rongomātāne B Chairs: Christopher Sabine & Valentine Loiseau	4C: Ocean Solutions: Understanding Ocean-based Climate Solutions: Ecological implications, monitoring needs, and financing pathways Room: Rongomātāne C Chairs: Scott Nodder & Svenja Halfter	4D: Modulating role of time Room: Mātiu Chairs: Piero Calosi & Lily Stokes	4E: Room: Mākaro
16.00 - 16.15	Invited: Multiple drivers of change: Simple experimental approaches for a complex problem Catriona Hurd			Invited: Dynamics of surface CO₂ in the equatorial Pacific from satellite remote sensing: from seasonal to interannual and decadal scales Shuangling Chen	
16.15 - 16.30					
16.30 - 16.45	Tolerance Throughout Time: Can Coralline Algae Acclimate to Future Ocean Acidification and Ocean Warming? Denisa Berbece	Ocean acidification monitoring in Suva harbor, Fiji Azaria Pickering	Ocean Alkalinity Enhancement Pelagic Intercomparison Project (OAEPiIP): Results from the New Zealand Experiment Linn Hoffmann	Creating evidence for action: bridging knowledge gaps and identifying opportunities for ocean acidification in the United Kingdom Lily Anna Stokes	
16.45 - 17.00	An integrated framework for evaluating reef persistence under multiple stressors Ian Enochs	Identifying priorities of the ocean acidification research community of the Pacific to minimize and address the impacts of ocean acidification Kim Currie & Alleluia Taise-uili	Evaluating the effect of ocean alkalinity enhancement in natural phytoplankton communities of New Zealand Antonia Cristi	Decadal Trends in Surface Ocean and Coastal Carbonate Chemistry from Time-Series Data: Insights into Drivers of Change Treasure Warren	
17.00 - 17.15	Impacts of the sunscreen oxybenzone on the oxidative proteome of the coral model <i>Exaiptasia</i> Clinton Oakley	A strategic plan to address and minimize the impacts of ocean acidification in Iceland Hrönn Egilsdóttir	Toward robust quantification of carbon uptake and CO₂ removal in seaweed ecosystems Ju-hyoung Kim	How do nutrient stores and CO₂ levels affect diatom responses to warming? Emma Forss	
17.15 - 17.30	Impacts of multiple stressors on a reef-building coralline alga Guillermo Diaz-Pulido	Time series of carbonate system variable in the coasts of Savaia and Mulinuu, Upolu Island, Samoa Aleluia Taise-uili	Sea urchin larval sensitivity to low pH varies among nearby seagrass meadows, highlighting the need for fine-scale monitoring Jossias Alberto Duvane	Resilience against the impacts of climate change in an ecologically and economically significant native oyster Pauline Ross	

17.30 - 17.45	Multiparameter experiments constrain the sensitivity of coralline algae to environmental change Robert Eagle	Speed Talks: One coast, two stories? pH trends and dynamics in an urbanized bay and a pristine seagrass habitat Iris Eline Hendriks Tipping points beyond single stressors: spring floods advance hypo-salinity vulnerability thresholds in subarctic estuarine molluscs Valentine Loiseau The OA2O Project: Integrating Short-Term Ocean Acidification into NOAA's Operational Ocean and Weather Forecasting Systems Jose-henrique Alves A risk-based assessment of biodiversity changes from ocean acidification along the UAE's east coast Silvana Birchenough Toward Informed Action: A Systematic Review of Ocean Acidification Research in India Amit Kumar	Speed Talks: Buffering capacity of Ulva sp. on oyster larval survival and development under enhanced alkalinity and elevated CO₂ conditions Laura Sordo Spatial distribution of seawater pH and alkalinity across five sites on the North coast of Upolu, Samoa Tina Taitaifono Mareko Monitoring carbonate chemistry in coral restoration projects in Costa Rica Celeste Sánchez-Noguera	Speed Talks: Physical-biological processes regulating summer sea-air CO₂ exchanges and marine carbonate system along the Drake Passage and northern Antarctic Peninsula Matheus Batista One year of continuous pCO₂ measurements at the Antarctic glacier front: addressing a critical gap in Southern Ocean carbon budgets Susana Flecha Reconstructing the ocean carbon budget from observations with machine learning and an inverse method Neill Mackay Seasonal Variability Dominates Spatial Patterns of Particulate Organic Carbon Export in the Southern Ocean Luisa Garcia	
17.45 - 18.00	Does Ocean Acidification Exacerbate Bleaching? Multistressor Insights from Corals and Coralline Algae Ashtyn Isaak			Discussion	
18.00 - 19.30	Poster Session 2 in the Exhibition Area - canapes & drinks provided <i>Supported by Antarctic Science Platform</i>				
20.00 - 21.30	Movie Night at Soundings Theatre, Te Papa The Ocean Acidification Alliance presents “CHANGING WATERS: Time for action on ocean acidification” with panel discussion				

THURSDAY 15 OCTOBER	
08.00 - 18.00	Registration & Exhibition Open (Level 1, Tākina Wellington Convention & Exhibition Centre)
07.30 - 09.00	Workshop: OARS Framework for Action: An Introduction to Co-Designing Ocean Acidification Research for Decision Making (Room: Mākaro)
09.00 - 09.10	Welcome in Rongomātāne A
09.10 - 09.50	Keynote 5: Nianzhi Jiao (Xiamen University) A BBNJ Compliant Roadmap for Ocean Negative Carbon Emissions in a High-CO ₂ World
09.50 - 10.30	Keynote 6: Helen Findlay (Plymouth Marine Laboratory) From Bays to Boundaries: A Journey Across Scales in a High CO ₂ Ocean
10.30 - 11.00	Morning Tea Break in the Exhibition area

11.00 - 13.00	5A: Multiple Stressors: Assessing high-CO₂ and multi-stressor effects on aquatic organisms using natural laboratories of climate change Room: Rongomātāne A Chairs: Riccardo Rodolfo-Metalpa & Davide Spatafora	5B: Beyond Tipping Points: Actionable Oceans: Putting ocean acidification science and information into the right hands Room: Rongomātāne B Chairs: Liz Perotti & Larissa Dias	5C: Ocean Solutions: Addressing coastal acidification and enhancing carbon sinks through coordinated management of wastewater, nutrients, and ecosystems Room: Rongomātāne C Chairs: Chuanlun Zhang & Imke M Böök	5D: Changes in biodiversity. Buffer or Booster? When primary producers mitigate or amplify ocean acidification Room: Mātiu Chairs: Marco Munari & Carla Edworthy	5E: Technological Advances: Certified reference materials (CRMs) for seawater carbonate chemistry measurements Room: Mākaro Chairs: Dwight Gledhill & Madison Wood
11.00 - 11.15	Beyond winners and losers: the role of the sponge microbiome in climate acclimation James Bell	OA on the ground: a virtual tour of NOAA's ocean acidification tools and real-world impact Elizabeth Perotti & Elizabeth Wright-Fairbanks	Moving from monitoring to action in the north-east Atlantic Helen Findlay	AEOLUS: studying AEOLian macroalgal forests structure and functioning to Support biodiversity under ocean acidification Marco Munari	Ensuring robust and resilient certification and production of reference materials for CO₂-in-seawater measurements Madison Wood & Dwight Gledhill, NOAA 11.00 - 11.10 Madison Wood 11.10 - 11.20 Dwight Gledhill 11.20 - 11.30 Denis Pierrot 11.30 - 11.40 Peter Croot 11.40 - 11.50 Hiroshi Uchida 11.50 - 12.00 Q&A 12.00 - 13.00 Breakout Group Discussions
11.15 - 11.30	Limited Adaptation of Crustose Coralline Algae in a Carbon Dioxide Vent Holly Koch	Puget Sound Acidification and Impacts (PSAI): A data product for estimating acidification in Puget Sound and surrounding areas Larissa Dias	Sediment–Seagrass Coupling Enhances Alkalinity-Driven CO₂ Uptake in Seagrass Mesocosms Wen-Chen Chou	Do coccolithophores boost the impact of ocean acidification? Sarah Cryer	
11.30 - 11.45	Physiological and cellular mechanisms of multi-stressor resilience in reef fishes from a natural climate change analogue in New Caledonia Hayley Kennedy	Love Rimurimu: Turning Kelp Restoration into Community Action in Te Whanganui-a-Tara Hayley Stent	Development of a biogeochemical modeling approach to investigate present and project future states of ocean acidification in Tokyo Bay, Japan Lawrence Patrick Bernardo	Sediment-water fluxes of DIC and alkalinity in intertidal salt marshes: Blue C storage and acidification mitigation Lionel Denis	
11.45 - 12.00	Uncovering cryptic reef biodiversity in coral rubble using eDNA at a natural CO₂ seep Britta Fiedler	From science to practice: Collaborative carbonate system monitoring for scallop aquaculture decision making in northern Peru Natalie Bravo Senmache	Wastewater treatment plants as hubs for marine carbon dioxide removal: Insights from a cleantech startup Simon Reid	Phytoplankton community response under coastal acidification scenarios within an estuarine mangrove ecosystem Anwesha Ghosh	
12.00 - 12.15	Ocean acidification drives negative skeletal responses in sea urchins across experimental and natural systems Yiyi Li	Implications of monitoring and modeling results of acidification in Japan coasts Masahiko Fujii	Carbon Capture and Ecosystem Effects of Okinawan Seaweed farms Cheyenne Bridge	Dynamics of the marine carbonate system under the influence of Sargassum in the Mexican Caribbean Cecilia Chapa-Balcorta	
12.15 - 12.30	The brain transcriptional program and behavioural responses of the Pajama cardinalfish under multiple environmental stressors Davide Spatafora	Localized biogeochemistry and seasonality govern carbonate chemistry in estuarine mangrove ecosystems Punyasloke Bhadury	Discussion	Physics or Biology: which drives the variability of the carbonate system in a coastal area of the Southwest Atlantic Ocean? María Del Mar Eivers	

12.30 - 12.45	Roca Redonda, Galápagos: Baseline evidence supporting the need for sustained monitoring of a tropical natural CO₂ laboratory Daniela Andrea Saltos Aguilar & Mario Armando Hurtado Domínguez	Discussion		Discussion		
12.45 - 13.00	Discussion					
13.00 - 13.45	Lunch in the Exhibition Area					
13.15 - 14.30	Field Trip - Te Whanganui-a-Tara Harbour Tour					
13.30 - 16.00	Field Trip - Te Whanganui-a-Tara Waka Tour					
13.45 - 15.45	Workshops, Discussions & Trainings					
	Room: Rongomātāne A Time: 13.45 - 15.45	Rongomātāne B Time: 13.45 - 15.45	Room: Rongomātāne C Time: 13.45 - 15.45	Room: Mātiu Time: 13.45 - 14.45	Room: Mākaro Time: 13.45 - 15.45	Room: Mokopuna Time: 13.45 - 15.45
	GOA-ON Workshop: Building on our strengths and looking forward		Ocean acidification as a collective action problem	Blue carbon ecosystems and innovative technologies for enhancing carbon sequestration	Pacific Islands and Territories ocean acidification network country planning workshop	Designing and analysing multiple driver experiments - Day 2
15.30 - 16.00	Afternoon Tea Break in the Exhibition Area					
16.00 - 18.00	6A: Multiple stressors Room: Rongomātāne A Chairs: Philip Boyd & Barbara Graham	6B: Changes in biodiversity Room: Rongomātāne B Chairs: Ben Harvey & Callum Hudson	6C: Ocean Solutions: Understanding Ocean-based Climate Solutions: Ecological implications, monitoring needs, and financing pathways Room: Rongomātāne C Chairs: Svenja Halfter & Michelle Simone	6D: Technological advances (General) Room: Mātiu Chairs: Carla Berghoff & Richard Karp	6E: Knowledge systems: Rebuilding Coastal Ecosystems Through Transformative Change: Coastal people and a changing world Room: Mākaro Chairs: Ohad Peleg & Namrata Chand	
16.00 - 16.15	The diatom shuffle: how a greenhouse ocean is selecting diatom species of the future Katherina Petrou	Invited: Multiple stressors, shifting biodiversity, and the reorganization of ecosystem functioning Steeve Comeau		Invited: Electrochemical Acid Sequestration to Ease Ocean Acidification (EASE-OA) Brendan Carter	One of natures’ great events rises from the ashes of an extinguished tropical cyclone Peter Russell	
16.15 - 16.30	Compound Coastal Stress from Marine Heatwaves in a High-CO₂ Gulf of Thailand Dhrubajyoti Samanta				Kaimoana and Climate: Mātauranga Māori as a Pathway to Coastal Ecosystem Restoration Mawera Karetai	

16.30 - 16.45	Exploring the potential of AI approaches to unravel the effects of complex climate change on marine phytoplankton Philip Boyd	Trait-based quantification of biological responses to ocean acidification across global marine time series Natalija Suhareva	Ocean Alkalinity Enhancement as an Ocean-Based Climate Solution: Ecological Implications for Coastal Sediment Biogeochemistry Michelle Simone	Sequential Treatment Application Robot Version 2: A robotic platform for high-replication, continuous ocean acidification experimentation and monitoring on marine organisms Richard Karp	The Pacific-Village NbS Framework: Indigenous-Grounded and Modern Science Supported Adaptation - A Case-Study of Saolufata, Samoa Mino Cleverley & Tupu Ioane-Cleverley
16.45 - 17.00	The joint effect of changes in temperature and CO₂ on growth and functional traits in a model diatom Sinéad Collins	Ocean Acidification Biodiversity Task Force Kirsten Isensee	Ocean observing technologies and strategies for Ocean Alkalinity Enhancement Research Dariia Atamanchuk	ESA-funded activities for enhancing satellite-based ocean carbon science Roberto Sabia	A giant kelp forest on the edge Ohad Peleg
17.00 - 17.15	A climate change risk assessment for the carbonate counter pump Benjamin Gustafson	Understanding mollusc host – microbe interactions in a changing ocean Elliot Scanes	Biological thresholds for mCDR carbonate chemistry Paul McElhany	Single-cell measurement of carbon allocation under environmental change Christina McGraw	The impacts of marine heatwaves and low salinity on blackfoot abalone (pāua) in Aotearoa/New Zealand Katie Fenton
17.15 - 17.30	Pseudoreplication in experiments is, or is not, a sin: from debate to practical analysis with model averaging tools Peter Dillingham	Projecting the multi-stressor at regional scale for conservation and restoration of marine ecosystems Yuri Artioli	Linking Ocean Acidification to the Spatial Distribution of <i>Rochia niloticus</i> in Tiaro Bay, Guadalcanal, Solomon Islands Lindon Havimana & Wycliff Tupiti	Progress in Ocean Acidification Observing Capacity in the Argentine Atlantic Carla Berghoff	Panel Discussion
17.30 - 17.45	Cellular and Molecular Impacts of Ocean Acidification on Fish Brain Function at Single-Nuclei Resolution Celia Schunter	Ocean Acidification Effects on Reproduction and Early Life Stages of Marine Teleost Fishes: A Synthesis Silvana Birchenough	mCDR Research and Initiatives in Southeast Asia Aileen Tan		
17.45 - 18.00	Discussion	Early exposure shapes physiological resilience to chronic ocean acidification in embryonic sharks Rebecca Bridge	Discussion	Discussion	
19.00 - 23.30	Gala Dinner at Wellington Foyer, Te Papa Celebrate in style at our Gala Dinner, an evening of great food, entertainment, and connection. This is not a traditional seated dinner. Instead, guests will enjoy a relaxed social dining experience featuring a buffet dinner and seafood station, with a combination of seating and bar leaners available throughout the venue. The format is designed to encourage delegates to mix, mingle, and connect with colleagues and friends from across the global OA community while enjoying excellent food and refreshments. Arrival drinks in Te Papa entrance from 7.00-7.30pm, with guests moving into Wellington Foyer at 7.30pm. <i>Tickets inclusive of full registrations but a RSVP is required to attend. Your ticket is on your name badge.</i>				

FRIDAY 16 OCTOBER

06.30 - 09.30	Field Trip - Zealandia Te Māra a Tāne Dawn Tour					
08.00 - 16.00	Registration & Exhibition Open (Level 1, Tākina Wellington Convention & Exhibition Centre)					
09.00 - 11.00	Workshops, Discussions & Trainings					
	Room: Rongomātāne A Time: 09.00 - 11.00	Rongomātāne B Time: 09.00 - 11.00	Room: Rongomātāne C Time: 09.00 - 11.00	Room: Mātiu Time: 10.00 - 11.00	Room: Mākaro Time: 09.00 - 11.00	Room: Mokopuna Time: 09.00 - 11.00
	Elevating coastal monitoring with traditional indicators and community partnerships	Designing and analysing multiple driver experiments - Day 3	Integrating ocean carbon observations and models	mCDR: A policy perspective	Measuring Dissolved CO₂ Across the Ocean Water Column: Technologies, applications and emerging developments	
11.00 - 11.30	Morning Tea Break in the Exhibition area					
11.30 - 13.00	7A: Multiple stressors Room: Rongomātāne A Chairs: Francis Chan & Katie Fenton	7B: Changes in biodiversity. Buffer or Booster? When primary producers mitigate or amplify ocean acidification Room: Rongomātāne B Chairs: Sam Rastrick & Ashtyn Isaak	7C: Modulating role of time (General) Room: Rongomātāne C Chairs: Carla Berghoff & Lisandro Ariel Arbilla	7D: Technological advances: Charting the Future: Emerging technologies for ocean acidification monitoring Room: Mātiu Chairs: Kaity Goldsmith & Liza Wright-Fairbanks	7E: Multiple Stressors: Ocean acidification multiple stressor effects on North American species Room: Mākaro Chairs: Helen Gurney-Smith & Kristina Barclay	
11.30 - 11.45	Ocean deoxygenation and marine heatwaves: scaling interacting stressors from organisms to ecosystems Francis Chan	Towards understanding the role of coastal habitats as ocean acidification refugia within a seascape context Carla Edworthy	Interannual and Seasonal Variability of CO₂ Parameters in the Tropical Atlantic Ocean Frederic Bonou	Sustained pH Observations from Underwater Glider Networks in the US Elizabeth Wright-Fairbanks	Embracing the Complexity of Life: investigating intraspecific variation across multiple levels of biological organisation within a multistressor context Lauric Feugere	
11.45 - 12.00	Repeated acute stressors under chronic warming: seasonal resilience of the green sea urchin across behavioural, reproductive and molecular responses Valentine Loiseau	Can integrated multi-trophic aquaculture help reduce the effects of ocean acidification on economically important filter feeders Sam Rastrick	Two decades of sea-air CO₂ exchanges in the northern Antarctic Peninsula (1999-2019): Spatiotemporal variability and pCO₂ drivers Thiago Monteiro	Advancing Autonomous Total Alkalinity Measurements for Ocean Acidification Monitoring and Ocean Alkalinity Enhancement Applications Christopher Sabine	Carbonate chemistry as a multiple stressor: experiments on parameters affecting Dungeness crab larvae Paul McElhany	
12.00 - 12.15	A framework for exploring the impacts of ocean acidification on food security Ellycia Harrould-Kolieb	Field based observations to understand ecological interactions with carbonate chemistry between seagrass and coral habitats Helen Findlay	Seasonal variability of air-sea CO₂ fluxes in the Northern Patagonian Shelf Lisandro Ariel Arbilla & Carla Florencia Berghoff	Development of high-frequency dissolved inorganic carbon and pH sensors to study in-situ effects of ocean acidification on fisheries Zhaohui Aleck Wang	Can increased feeding mitigate the adverse effects of climate change in juveniles of <i>Atrina maura</i>? Tania Libertad López-Medina	

12.15 - 12.30	Effects of abiotic factors on the behavior and luminescence of the sea pen <i>Pennatula phosphorea</i> Laurent Duchatelet	Florida Gulf Coast Spatio-Temporal Assessment of Acidification Events in Relation to Harmful Algal Blooms Emily Hall	CO ₂ Outgassing Mechanisms in the Oxygen Minimum Zone of the Mexican Tropical Pacific Asbel Itahi De La Cruz Ruiz & Cecilia Chapa Balcorta	Improving Accessibility for Coastal Carbonate Chemistry Measurements: Expansion of Use Cases for the pCO ₂ to Go, a Carbon Dioxide Sensor Kaitlyn Lowder	Comparative stress indicators of juvenile Dungeness crabs (M. magister) exposed to simulated upwelling profiles Nyazia Sajdah-Bey
12.30 - 12.45	Discussion	Discussion	CDOM-Driven Light Attenuation Modulates Productivity and Hypoxia in an Estuarine System Rui Jin	From tropical shores to extreme winter storms: USV adaptive sampling for ocean carbonate chemistry Adrienne Sutton	Shell shock: Investigating four decades of ocean acidification and warming on Atlantic sea scallop shells Halle Berger
12.45 - 13.00			Discussion	Discussion	Discussion
13.00 - 14.00	Lunch in the Exhibition Area				
14.00 - 15.30	8A: Multiple stressors Room: Rongomātāne A Chairs: Christina Frieder & Gabriela Wood	8B: Changes in biodiversity Room: Rongomātāne B Chairs: Chris Harley & Inès Mangolte	8C: Modulating role of time Room: Rongomātāne C Chairs: Pauline Ross & Andreas Eich	8D: Knowledge systems (General) Room: Mātiu Chairs: Claudine Hauri & Miriama Vuiyasawa	8E: Room: Mākaro
14.00 - 14.30	Invited: The UN-endorsed Global Estuaries Monitoring (GEM) Programme: A Collaborative Effort to Assess and Mitigate Anthropogenic Pollution in Urban Estuaries Worldwide Kenneth Leung	Invited: Effects of ocean acidification on shellfish growth and vulnerability to thermal stress, hypoxia, and predators Christopher Harley	Invited: Understanding the role of crustose coralline algae in buffering the carbonate system in shallow reef environments Michael Ellwood	Invited: Turning Ocean Acidification Monitoring into Action: Lessons from the Pacific Islands Ocean Acidification Centre Katy Soapi	
14.30 - 14.45	Quantifying the impact of ocean acidification on the aerobic habitat of marine organisms Christina Frieder	Energy reallocation and biomineralization responses of coastal marine calcifiers under future ocean acidification scenarios Ying Long	Legacy effects of marine heatwaves: Impacts of recurring bleaching events on microbiome and genomic signatures of <i>Acropora hyacinthus</i> Andreas Eich	Mātauranga Hapū Navigating High-Carbon Dioxide (CO ₂) in Te Takutai Moana Tumanako McLeod	
14.45 - 15.00	Membrane remodeling mediates differential acclimation and resilience to marine heatwaves in temperate sponges Gabriela Wood	Ocean Acidification Depresses Skeletal Mineralisation in a Temperate Neonatal Shark Oscar Speed	In Situ Measurements of Reef-Scale Hydrodynamics and Chemical Variability at Shusha Island Reef, Red Sea Max Dhillon	Indigenous Knowledge as Living Practice for a Changing Ocean: Experiences from Alaska Henry Huntington	
15.00 - 15.15	Multiple climate change stressors on coral reefs: potential for interactions between acidification, hypoxia and heat, and implications for reef resilience Verena Schoepf	Long-term exposure of Spotted rose snapper (<i>Lutjanus guttatus</i>) to low-pH in an aquaculture setting Celeste Sánchez-Noguera	Changes in energy metabolism in newly hatched small spotted catsharks reared under ocean acidification conditions Rebecca J. Bridge	Influence of submarine groundwater discharge on carbonate chemistry dynamics of a coastal coral reef system in East Portland, Jamaica Debbie-Ann D S Gordon-Smith	

15.15 - 15.30	Discussion	Impact of climate change on primary production in the Coral Sea Inès Mangolte	Discussion	Discussion	
15.30 - 16.00	Closing and Student Prizes in the Exhibition Area				
16.00 - 18.00	Farewell Function – a festive goodbye with a meal and drinks in the Exhibition Area				

SATURDAY 17 OCTOBER	
11.00 - 13.30	Field Trip - Love Rimurimu Guided Scorching Bay Snorkel Tour (AM group)
13.00 - 15.30	Field Trip - Love Rimurimu Guided Scorching Bay Snorkel Tour (PM group)

POSTERS

POSTER SESSION 1

TUESDAY 13 OCTOBER, 18.00 - 19.30

POSTER SESSION 2 – *Supported by Antarctic Science Platform*

WEDNESDAY 14 OCTOBER, 18.00 - 19.30

POSTER TITLE	PRESENTERS	POSTER SESSION	POSTER NUMBER
Beyond tipping points – translating science to action			
The OA20 project: Integrating short-term ocean acidification into NOAA's operational ocean and weather forecasting systems	Jose-henrique Alves	Wednesday*	P2.01
A risk-based assessment of biodiversity changes from ocean acidification along the UAE's east coast	Silvana Birchenough	Wednesday*	P2.02
The Oleander transect: A ship-of-opportunity platform for high-frequency ocean carbon observations	Matt Enright	Tuesday	P1.01
Localized acidification in a giant clam ocean nursery highlights the immediate need for carrying capacity studies	Charissa Ferrera	Tuesday	P1.02
One coast, two stories? pH trends and dynamics in an urbanized bay and a pristine seagrass habitat	Iris Eline Hendriks	Wednesday*	P2.03
A synthesis of data products for ocean carbonate chemistry	Liqing Jiang	Wednesday*	P2.04
Toward informed action: A systematic review of ocean acidification research in India	Amit Kumar	Wednesday*	P2.05
Tipping points beyond single stressors: Spring floods advance hypo-salinity vulnerability thresholds in subarctic estuarine molluscs	Valentine Loiseau	Wednesday*	P2.06
Defining ecological vulnerability to ocean and coastal acidification in the Mid-Atlantic region of the United States	Emily Rivest	Wednesday*	P2.07
An initial assessment of marine carbon dioxide removal for Sāmoa	Ryan Taei	Tuesday	P1.03
Global-driven changes in biodiversity and ecosystem resilience			
Impact of algal deposition (<i>Vaucheria</i> sp.) on DIC and alkalinity fluxes of an intertidal salt-marsh colonized by <i>Spartina anglica</i>	Lionel Denis	Tuesday	P1.04
Living in different tidal niches: Acute metabolic response of Adriatic gastropods to low pH	Sanja Grđan	Tuesday	P1.05
Effects of Prolonged Warming on Macroinvertebrates Assemblages in Mesocosms in Sydney, Australia	Nate Howarth	Tuesday	P1.06
Thermal resilience of <i>Antipathella fiordensis</i> : Mechanisms of cold-water coral response to marine heatwaves	Amber Kirk	Tuesday*	P1.07
Temperate sponge microbiomes as drivers of holobiont resilience to marine heatwaves	Usangi Maldeniya	Tuesday	P1.08
Spatial distribution of seawater pH and alkalinity across five sites on the north coast of Upolu, Samoa	Tina Taitaifono Mareko	Wednesday*	P2.08
A decade-long reconstructed pH time series at the Strait of Gibraltar: Gap-filling strategies for continuous ocean acidification monitoring	Alejandro Roman	Wednesday	P2.09
Long-Term pH Trends and Spatiotemporal Variability of the Carbonate System in Jakarta Bay	Camellia Tito	Wednesday	P2.10
Multiple stressors' effects on marine organisms			
Red seaweed aquaculture in a changing ocean: Growth and biochemical responses to ocean acidification	Gunnar Cervin, Alexandra Kinnby	Wednesday	P2.11
Transcriptomic responses of a bioeroding sponge to interacting ocean change drivers	Christopher Edward Cornwall	Tuesday	P1.09
Bayesian modelling of growth phase transitions in phytoplankton cultures	Madusha Dilshani	Wednesday	P2.12
The energetic cost of long-term exposure to ocean acidification in the commercial scallop <i>Zygochlamys patagonica</i>	María del Mar Eivers	Tuesday	P1.10

Early life-stage responses to ocean acidification in the invasive estuarine shrimp <i>Palaemon macrodactylus</i>	María del Mar Eivers	Tuesday	P1.11
Engineer of the future: The intertidal mussel <i>Brachidontes rodriguezii</i> (Bivalvia: Mytilidae) shows resilience under acidified conditions	María del Mar Eivers	Wednesday*	P2.13
Genetics and ontogeny are key factors influencing thermal resilience in a culturally and economically important bivalve	Norman Ragg	Wednesday	P2.14
Nitrogen-driven changes in internal C:N stoichiometry influence organic carbon release and ocean acidification responses in the giant kelp <i>Macrocystis pyrifera</i>	Pamela Fernandez	Wednesday	P2.15
Breaking bad curves: Ocean acidification shifts multiomics dose responses to a pollutant in an Arctic copepod	Lauric Feugere	Wednesday	P2.16
Relating subsurface burrow structures and the associated microbial community to seafloor sediment biogeochemistry in a changing world	Rachel Hale	Tuesday	P1.12
Key role of heterotrophy in mitigating thermal stress in corals naturally exposed to extreme environmental conditions	Layla Iijima	Tuesday*	P1.13
Simulated atmospheric heatwave suppresses immune function in Sydney rock oyster (<i>Saccostrea glomerata</i>)	Jasmin Kamarulzaman	Tuesday*	P1.14
Ocean acidification offsets heatwave-driven recruitment failure and reshapes projected range shifts in the canopy-forming alga <i>Sargassum macrocarpum</i>	Yeo Jin Yoon, Ju-hyoung Kim	Tuesday	P1.15
Differential ocean acidification effects on two economically important clams from southern South America	Maria Eugenia Lattuca	Tuesday	P1.16
Fatty acid response of Antarctic ascidia <i>Cnemidocarpa verrucosa</i> to ocean warming and acidification	Maria Eugenia Lattuca	Tuesday	P1.17
Effects of ocean warming and acidification on an ecologically important echinoderm at its southernmost distribution limit	Maria Eugenia Lattuca	Wednesday	P2.17
Dietary plasticity allows a dominant herbivore to persist on simplified reefs under ocean warming and acidification	Annie Marek	Wednesday*	P2.18
Environmental variability in pH and temperature drives reef carbonate dynamics in the Mexican Caribbean	Francisco Medellín Maldonado	Wednesday	P2.19
Mapping potential multi-stressor exposure in marine systems: A 4D GIS-based approach	Virginia Morejón	Tuesday*	P1.18
The involvement between seafloor CO ₂ eruptions in the Tachibana Bay and the marine environment and organisms	Kiminori Shitashima	Tuesday	P1.19
Fluorescence and polarised-light microscopy of <i>Xenia</i> spp. sclerites reveal resilient biomineralisation under ocean acidification, nitrate enrichment and competitive stress	Susana Marcela Simancas Giraldo	Tuesday	P1.20
Temperate coral populations naturally occurring in high pCO ₂ environments	Núria Teixidó	Wednesday*	P2.20
New Caledonian Large Benthic Foraminiferal S/Ca signatures as sulfate seawater proxies: Results from controlled growth experiments	Tobias Walla	Wednesday	P2.21
Ocean-based solutions			
Bass Strait ocean alkalinity enhancement scenarios reveal the fate of potential carbon uptake	Harris Anderson	Wednesday	P2.22
The third decadal U.S. carbon cycle science plan	Leticia Barbero	Wednesday	P2.23
Can surface salinity predict alkalinity for tropical, data-scarce, shelf regions? A case study from the western South Atlantic	Manoela Barbosa	Wednesday	P2.24
Nutrient-activated biochar cultch: Improving shellfish larval settlement and habitat resilience in British Columbia under combined climate stressors	Bruce Bradley	Wednesday	P2.25
Incubation-derived biogeochemical fluxes of macrophytes: Implications for seaweed aquaculture carbon sequestration	Cheyenne Bridge	Wednesday	P2.26
Survival and lipid content of <i>Calanus pacificus</i> under dynamic ocean alkalinity enhancement exposure scenarios	Georgina Cepeda	Wednesday	P2.27
Seagrass-derived DOC enhances bacterial growth and reveals a potential RDOC carbon sink	Tzong-yueh Chen	Wednesday	P2.28
Riverine flood pulses restructure estuarine pico-sized chlorophyte communities through salinity shifts at a subtropical river–sea interface	Kuo-Ping Chiang	Tuesday	P1.21
Sedimentary alkalinity production sustains low pCO ₂ in seagrass meadows: Evidence from a semi-enclosed lagoon	Wen-Chen Chou	Tuesday	P1.22
Does alkalinity enhancement affect survival and shell integrity of Aotearoa New Zealand mussels?	Vonda Cummings	Tuesday	P1.23
Bioturbation is a key driver influencing alkalinity release from coastal and shelf sediments	Astrid Hylén	Wednesday	P2.29

Quantifying farmed kelp atmospheric carbon dioxide uptake and release through localized air-sea flux measurements in the northern Gulf of Alaska	A Kelley, Cale Miller	Wednesday	P2.30
The Surface Ocean-Lower Atmosphere Study (SOLAS) 3.0: from science towards solutions	Li Li	Wednesday	P2.31
Ocean acidification in Papua New Guinea: Challenges, opportunities, and next steps for action	Maisy Lus	Tuesday*	P1.24
The effects of marine carbon dioxide removal (mCDR) carbonate chemistry conditions on zoea stage Dungeness crab (<i>Metacarcinus magister</i>)	Paul McElhany	Wednesday	P2.32
Impact of improved marine atmospheric boundary CO ₂ measurement on regional sea-air CO ₂ fluxes	Denis Pierrot	Wednesday	P2.33
The response of giant kelp, <i>Macrocystis pyrifera</i> , to simulated ocean alkalinity enhancement (OAE)	Katherine Rivers	Tuesday	P1.25
Natural alkalinity generation through beach sand weathering and potential feedbacks of olivine addition	Mikayla Robson	Tuesday	P1.26
Establishing and strengthening ocean acidification monitoring program and nature-based solutions in Kiribati	Manibua Rota	Tuesday	P1.27
Monitoring carbonate chemistry in coral restoration projects in Costa Rica	Celeste Sánchez-Noguera	Wednesday*	P2.34
Buffering capacity of <i>Ulva</i> sp. on oyster larval survival and development under enhanced alkalinity and elevated CO ₂ conditions	Laura Sordo	Wednesday*	P2.35
Present and future alkalinity cycling in the east Otago coastal zone	Sebastiaan van de Velde	Tuesday	P1.28
Technological advances in marine climate change research			
BGC-Argo floats and SOCAT as a pCO ₂ observing system in the Southern Ocean: A multi-model subsampling assessment	Lisandro Ariel Arbilla	Tuesday	P1.29
Metabolic dynamics of an offshore coral reef in the central Red Sea: Observations from autonomous sensors	Sarah E. Cryer	Wednesday	P2.36
Carbonate chemistry variability and air-sea CO ₂ fluxes on the Ghana shelf in a coastal upwelling system	Maurice Oti Edusei	Wednesday*	P2.37
Real-time coastal ocean monitoring with portable mini-mooring network enabling OA event reporting for southern California	Charles Lindsay	Wednesday*	P2.38
Reconstructing the ocean carbon budget from observations with machine learning and an inverse method	Neill Mackay	Wednesday*	P2.39
From inventory to monitoring readiness: Reassessing naturally acidified marine sites as high-CO ₂ natural laboratories	Daniela Andrea Saltos Aguilar, Mario Armando Hurtado Domínguez	Wednesday*	P2.40
Carbonate chemistry insights from a deep-sea octopus nursery	Celeste Sánchez-Noguera	Tuesday	P1.30
How can we notice high CO ₂ in the ocean? – A proper indicator for detecting high CO ₂ concentration	Toru Sato	Tuesday	P1.31
Working across knowledge systems in a high-CO₂ world			
Knowing the Ocean: Pacific Traditional Knowledge and Coastal Monitoring	Adi Bunonitokalau Baledrokadroka	Tuesday	P1.32
Carbonate chemistry at the top of the world: Observations from a 90°N trans-Arctic ship of opportunity transit	Leticia Barbero	Tuesday	P1.33
Physical-biological processes regulating summer sea-air CO ₂ exchanges and marine carbonate system along the Drake Passage and northern Antarctic Peninsula	Matheus Batista	Wednesday*	P2.41
Carbonate system observations during a capacity-building expedition across the tropical Atlantic (March 2025)	Carla Berghoff	Tuesday	P1.34
Taking a dive into El Veril: Constraining coastal carbonate system variability through citizen science at a coastal site in Argentina	Carla Berghoff	Wednesday*	P2.42
Monitoring of physico-chemical parameters related to ocean acidification: The case of Mauritius	Kishore Boodhoo	Tuesday*	P1.35
Integrating eddy covariance and carbonate chemistry to constrain CO ₂ fluxes in a large shallow lake	Mark Fenwick	Tuesday	P1.36
One year of continuous pCO ₂ measurements at the Antarctic glacier front: Addressing a critical gap in Southern Ocean carbon budgets	Susana Flecha	Wednesday*	P2.43
Seasonal variability dominates spatial patterns of particulate organic carbon export in the Southern Ocean	Luisa Garcia	Wednesday*	P2.44

Integrating te ao Māori into the regeneration of kelp forests within Te Whanganui a Tara, Aotearoa	Māia-te-o-ho Holman-Wharehoka	Tuesday	P1.37
Regional-scale climatology of global change CO ₂ flux on the ocean surface for the North Atlantic and the Arctic	Małgorzata Kitowska, Iwona Niedźwiecka	Tuesday	P1.38
Direct measurements of CO ₂ fluxes over the Arctic Ocean: extreme conditions on gas transfer dynamics	Iwona Niedźwiecka	Tuesday	P1.39
Volcanically driven CO ₂ emissions in Antarctic coastal systems: Insights from Deception Island	Gabriel Navarro	Wednesday*	P2.45
Pacific Islands ocean acidification centre	Miriama Vuiyasawa, Azaria Pickering, Katy Soapi	Tuesday*	P1.40

*Speed Talk

