

17DSBS - Schedule of Oral Presentations

12 January 2025 (Sunday)

1630-1830	Registration
1800-1930	Cocktail Reception

Day 1 - 13 January 2025 (Monday)

0830-0900	Registration
0900-0930	Opening Ceremony (LT-A)
	Opening Address 1:
	Nancy IP <i>Hong Kong University of Science and Technology, Hong Kong, China</i>
	Opening Address 2:
	Si Zhang <i>Southern Marine Science and Engineering Guangdong Lab (Guangzhou), China</i>
	Opening Address 3:
	Dongmei Tang <i>China Deep Ocean Affairs Administration, Ministry of Natural Resources, China</i>
	Opening Address 4:
	Michelle Taylor <i>Deep-Sea Biology Society</i>
0930-0955	Signing Ceremony
	Keynote Lecture 1 [Croucher Keynote Lecture] (LT-A)
	Chair: Michelle Taylor
	Balancing Exploitation and Conservation in the Deep Sea: Challenges for Science
	Malcolm R. Clark <i>National Institute of Water & Atmospheric Research, New Zealand</i>
1000-1030	Group Photo & Tea Break
	Session 2: Microbiome LT-A Chairs: Haiwei Luo & Xiang Xiao
	Session 1: Biodiversity (A) Diversity and Taxonomy I LT-B Chairs: Julia D. Sigwart & Patricia Velez Aguilar
1030-1045	O2-1 [Invited Talk]: What are the Prevalent Clades Involved in Marine Biogeochemical Processes at Extreme Energy Limitation? Aurèle Vuillemin GFZ German Research Centre for Geosciences, Germany
	O1A-1: Deep-Sea Biodiversity in the Aleutian Trench (Aleutbio) Angelika Brandt Senckenberg Research Institute and Natural History Museum, Germany

1045-1100	O2-2 [Invited Talk] : Distribution and Genomic Variation of Ammonia-Oxidizing Archaea in Abyssal and Hadal Surface Sediments Blandine Trouche <i>University of Southern Denmark, Denmark</i>	O1A-2: Meiofauna Patterns in Three Contrasting Habitats at the Lucky Strike Vent Field: Focus on Nematode Diversity William Johnson da Silva <i>IFREMER, France</i>
1100-1115	O2-3: Death in The Deep: Microeukaryotes in Hydrothermal Vent Food Webs Sarah K. Hu <i>Texas A&M University, USA</i>	O1A-3: Senckenberg Ocean Species Alliance (SOSA) — Novel Solutions Combining Discovery, Conservation and Fascination of Marine Invertebrates Julia D. Sigwart <i>Senckenberg Research Institute and Natural History Museum, Germany</i>
1115-1130	O2-4: Prevalent and Active Dehalogenation Metabolism in Microorganisms of the Deepest Oceanic Trench Rulong Liu <i>Shanghai Ocean University, China</i>	O1A-4: Diversity across the Philippine Sea: Benthic Megafauna Community Composition across Four Ridges in Southern Japan Leah A. Bergman <i>Japan Agency for Marine-Earth Science and Technology, Japan</i>
1130-1145	O2-5: Crude-Oil Degradation Capabilities by Microscopic Fungi of Deep-Sea Hydrothermal Vents of The Gulf of California Diana L. Salcedo <i>National Autonomous University of Mexico, Mexico</i>	O1A-5: Exploring Deep-Sea Ecosystems in Palau with Baited Cameras and ROVs Harold K. Carlson <i>University of Hawai‘i at Mānoa, USA</i>
1145-1200	O2-6: The Far-Reaching Impacts of Hydrothermal Plumes on Microbial Communities and Biogeochemistry Significance in The Okinawa Trough Min Yu <i>Ocean University of China, China</i>	O1A-6: Faunal Communities of Deep Arctic Methane Seeps are Specialized with Links to Hydrothermal Vents Mari H. Eilertsen <i>University of Bergen, Norway</i>
1200-1215	O2-7: Novel Insight into Microbiosphere and Metabolisms in the Subseafloor Sediments of the Challenge Deep Xiao-Hua Zhang <i>Ocean University of China, China</i>	O1A-7: Biodiversity of Abyssal Polymetallic Nodule Fields in the Easternmost Region of the Clarion-Clipperton Fracture Zone, Pacific Ocean Chee Kong Chim <i>National University of Singapore, Singapore</i>
1215-1230	O2-8 : Nitrous Oxide Reduction by Model Deep-Sea Isolates and Susceptibility to Metal Exposure Miguel Semedo <i>University of Porto, Portugal</i>	O1A-8: Revealing Intra- and Inter- Trenches Biodiversity of Hadal Meiofauna Using Molecular Approaches Yick Hang Kwan <i>University of Southern Denmark, Denmark</i>
1240-1400	Lunch	
1415-1440	Keynote Lecture 2 (LT-A) Chair: Jon Copley Microbial Ecosystem in Deep-Sea Hydrothermal Systems Ken Takai <i>Japan Agency for Marine-Earth Science and Technology, Japan</i>	

	Session 11: Decade of Ocean Science Program Highlights (A) LT-A Chairs: Ana Hilario & Lisa A. Levin	Session 1: Biodiversity (B) Diversity and Taxonomy II LT-B Chairs: Jerome Hui & Patrica Velez Aguilar
1445-1500	O11A-1 [Invited Talk]: The African Network of Deepwater Researchers Agnes Muthumbi <i>University of Nairobi, Kenya</i>	O1B-1 [Invited Talk]: Diversity, Ecology and Utilization of Deep-Sea Fungi from the Eastern Pacific and Gulf of Mexico Patricia Velez Aguilar <i>National Autonomous University of Mexico, Mexico</i>
1500-1515	O11A-2 [Invited Talk]: Deepening the Decade: Collaborative Action for Advancing Deep Ocean Science and Policy in the United Nations Decade of Ocean Science for Sustainable Development Elizabeth D. Hetherington <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>	O1B-2 : Deep-Sea Fish Biodiversity on A Seamount Protected Area Eva Giacomello <i>University of the Azores, Portugal</i>
1515-1530	O11A-3: Prioritisation of Ocean Biodiversity Data Collection to Deliver a Sustainable Ocean Amelia E. H. Bridges <i>University of Plymouth, UK</i>	O1B-3: Diverse and Self-Sustaining Benthos of An Arctic Oil Seep Arunima Sen <i>The University Centre in Svalbard, Norway</i>
1530-1545	O11A-4: Deep-Ocean Stewardship Initiative: the decade that was for the Decade that is Christopher Barrio Froján <i>University of Southampton, UK</i>	O1B-4: From Bubbles to Biology: Macrobenthos Abundance, Diversity, and Assemblage Structure at South Georgia’s Methane Seeps Madeline P. B. C. Anderson <i>British Antarctic Survey, UK</i>
1545-1600	O11A-5: Climate Change and Deep Ocean Microbiomes and Ecosystems (DOME) Jiasong Fang <i>Shanghai Ocean University, China</i>	O1B-5: Serpentinite-Hosted Alkaline Seep Communities on the Mariana Forearc Show Lasting Impacts from Scientific Drilling Chong Chen <i>Japan Agency for Marine-Earth Science and Technology, Japan</i>
1600-1615	O11A-6: UN Ocean Decade Project COESS: Chemistry, Observation, Ecology of Submarine Seeps Glen T. Snyder <i>University of Tokyo, Japan</i>	O1B-6: Biogeography and Biodiversity of Hydrothermal Vent Fauna along the Central Indian Ridge <i>Chailinn Park</i> <i>Korea Institute of Ocean Science & Technology, Busan, Republic of Korea</i>
1615-1630	O11A-7: Deep Ocean Discoveries in the UN Ocean Decade: Opportunities for Science, Development and International Cooperation Anna Roik <i>King Abdullah University of Science and Technology, Saudi Arabia</i>	O1B-7: Faunal Novelty and Dynamic Controls on the YBW Vent Field, East Pacific Rise Timothy M. Shank <i>Woods Hole Oceanographic Institution, USA</i>
1630-1650	Tea Break	

1650-1715	Keynote Lecture 3 (LT-A) Chair: Pei-Yuan Qian
	Exploring Deep-sea Typical Habitats for Achieving Sustainable Development Jiabiao Li <i>Second Institute of Oceanography, Ministry of Natural Resources, China</i>
	Session 11: Decade of Ocean Science Program Highlights (B) LT-A Chairs: Ana Hilario & Lisa A. Levin
1715-1730	O11B-1: The Development and Upcoming Challenges of Area-Based Management Tools for the Areas beyond National Jurisdiction Yan Gao <i>China Deep Ocean Affairs Administration, Ministry of Natural Resources, China</i>
1730-1745	O11B-2: Population Genetic Structure of the Deep-Sea Ophiuroidea across the North-Western Pacific: Subtle Differentiation within High Connectivity Dongsheng Zhang <i>Second Institute of Oceanography, Ministry of Natural Resources, China</i>
1745-1800	O11B-3: Time in the Deep: Insights from the NorthEast Pacific Deep-sea Exploration Project (NEPDEP) Cherisse DuPrez <i>University of Victoria, Canada</i>
1800-1815	O11B-4: Searching the One and Finding the Other: A Story of Corals, Hydrothermal Vents and Cold Seeps Saskia Brix <i>University of Hamburg, Germany</i>
1815-1830	O11B-5: From Barriers to Biodiversity – Phylogeographic Patterns in Deep-Sea Isopods in Two Major Oceanic Regions Stefanie Kaizer <i>Senckenberg Research Institute and Natural History Museum, Germany</i>
1830-1845	Roundtable Discussion
1900-2000	Student Mixer (By Invitation) China Garden

0900-0925	Day 2 - 14 January 2025 (Tuesday) Keynote Lecture 4 (LT-A) Chair: Ka Hou Chu	
	Cold-Seep Fauna in the South China Sea: Composition and Biogeography Jian-Wen Qiu <i>Hong Kong Baptist University, Hong Kong, China</i>	
0930-0945	Session 6: Genomics & Metagenomics of Metazoans (A) LT-A Chairs: Corinna Breusing & Jian-Wen Qiu	Session 7: Ecology & Conservation (A) LT-B Chairs: Joan M. Alfaro-Lucas & Astrid Leitner
	O6A-1 [Invited Talk]: Patterns of Genetic Diversity in Hydrothermal Vent Populations after the Hunga Tonga–Hunga Ha‘apai Eruption Corinna Breusing <i>University of Rhode Island, USA</i>	O7A-1: Living on the Edge: The Mesopelagic Boundary Community of Monterey Submarine Canyon Astrid Leitner <i>Oregon State University, USA</i>
0945-1000	O6A-2: Sequencing Ultraconserved Elements (Uces) in Conservation: A Case Study of Deep-Sea Mussel Population Genomics Yi-Xuan Li <i>Hong Kong Baptist University, Hong Kong, China</i>	O7A-2: Abundance, Niche Diversity, and Differential Species Effects Impact Ecosystem Function on the Bottom of the Ocean Craig R. McClain <i>University of Louisiana at Lafayette, USA</i>
	O6A-3: Genetic Divergence and Migration Dynamics of Co-Occurring Vent and Seep Macrofauna Highlight the Need for Deep-Sea Conservation Ting Xu <i>The Hong Kong University of Science and Technology, Hong Kong, China</i>	O7A-3: Faunal-Mediated Ecosystem Functioning in a Benthic Deep-Sea Canyon Community Recovering from a Severe Seabed Disturbance Rachel Hale <i>National Institute of Water & Atmospheric Research, New Zealand</i>
1015-1030	O6A-4 🗣️: Reduced Genetic Diversity and Limited Connectivity for Fisheries Impacted Populations of the Precious Coral <i>Hemicorallium laauense</i> Amy R. Baco <i>Florida State University, USA</i>	O7A-4: Revealing the Assembly Rules of Scavenging Fish Faunas in the Deep Western Pacific Aaron B. Judah <i>University of Hawai‘i at Mānoa, Honolulu, USA</i>
	O6A-5: Life on Fire: Multiple-Omics Analyses Reveal Thermal Adaptations of Hot-Vent Endemic Alvinellid Worms Xing He <i>Ocean University of China, China</i>	O7A-5: The Distribution and Trophic Structure of Gelatinous Zooplankton Across the Deep Pelagic Julia M. Chavarry <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>
1045-1100	O6A-6: Convergent Evolution of Distinctive Adaption to Extreme Environment in Deep-sea Organisms Longjun Wu <i>The Hong Kong University of Science and Technology, Hong Kong, China</i>	O7A-6: Squatlantis: Setting Physiological Baselines in the Seamounts of the SEP, Using New Records of Squat Lobsters Rosanne S. Dodde <i>Universidad Católica del Norte, Chile</i>
1100-1120	Tea Break	

	Session 6: Genomics & Metagenomics of Metazoans (B) LT-A Chairs: Holly M. Bik & Yi Lan	Session 7: Ecology & Conservation (B) LT-B Chairs: Joan M. Alfaro-Lucas & Daphne Cuvelier
1120-1135	O6B-1 [Invited Talk]: Transmission Mode and Stability of the Scaly-Foot Snail Holobiont Yi Lan <i>The Hong Kong University of Science and Technology, Hong Kong, China</i>	O7B-1: Animal Life in the Shallow Seafloor Crust at Deep-Sea Hydrothermal Vents Sabine Gollner <i>Royal Netherlands Institute for Sea Research, The Netherlands</i>
1135-1150	O6B-2: Genomics Illuminates the Adaptation to Deep-Sea Chemosymbiosis in a Scallop Yi-Tao Lin <i>Hong Kong Baptist University, Hong Kong, China</i>	O7B-2: Beta-Diversity Along the Hydrothermal Vent Fields of the Mid-Atlantic Ridge Daphne Cuvelier <i>University of the Azores, Portugal</i>
1150-1205	O6B-3: Genomic Insights into the Deep-Sea Adaptation and Rapid Colonization of <i>Lindaspio Polybranchiata</i> in a New Cold Seep Yujie Yan <i>Institute of Oceanology, Chinese Academy of Sciences, China</i>	O7B-3: Environmental Drivers and Microbial Mediation of Heterogeneity and Resilience of Carbonate Macrofauna at Methane Seeps Olívia S. Pereira <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>
1205-1220	O6B-4: Draft Genome of Abyssal Sea Cucumbers from a Region Targeted for Seabed Mining Belen Arias <i>Natural History Museum, UK</i>	O7B-4: Foundational Bathymodioline Mussel Larvae Preferentially Settle on Established Biofilm Surfaces Near Hydrothermal Vents Tanika M. Ladd <i>Western Washington University, USA</i>
1220-1235	O6B-5: Prokaryote-Eukaryote Co-Occurrence Predictions Using Multiomics to Link Ecosystem Function and Diversity in Deep-Sea Mining Areas Franck Lejzerowicz <i>University of Oslo, Norway</i>	O7B-5: Potential for Recovery of Deep-Sea Hydrothermal Vents Ecosystems After Burial by the Catastrophic Hunga Volcanic Eruption Shawn M. Arellano <i>Western Washington University, USA</i>
1235-1250	O6B-6: Characterization of Nuclear and Mitochondrial Genomes of Polynoids (Annelida: Polychaeta) in Deep-Sea Chemosynthetic Ecosystem Won-Kyung Lee <i>Korea Research Institute of Bioscience and Biotechnology, Korea</i>	O7B-6: Gas’tronomy at Methane Seeps: Isotopic Indicators of Eukaryotic Methane Use Lisa A. Levin <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>
1300-1400	Lunch	
1415-1440	Keynote Lecture 5 [Croucher Keynote Lecture] (LT-A) Chair: Hao Wang	
	Vulnerable Marine Ecosystems: Key Players for the Planet Health Ana Colaço <i>University of the Azores, Portugal</i>	
	Session 6: Genomics & Metagenomics of Metazoans (C) LT-A Chairs: Holly M. Bik & Jian-Wen Qiu	Session 7: Ecology & Conservation (C) LT-B Chairs: Astrid Leitner & Andrew Sweetman
1445-1500	O6C-1: eDNA Metabarcoding Upholds the Patch-Mosaic Model for Meiofaunal Biodiversity in Deep-Sea Sediments Holly M. Bik <i>University of Georgia, USA</i>	O7C-1: Evidence of Dark Oxygen Production at the Abyssal Seafloor Andrew Sweetman <i>The Scottish Association for Marine Science, UK</i>

1500-1515	O6C-2: Molecular Assessment of Deep-Sea Bony Fishes: New Findings from the Western South Atlantic Heloísa De Cia Caixeta <i>Universidade de São Paulo, Brazil</i>	O7C-2  : Vulnerability of Tropical Fish Communities across Depth in the Central Indian Ocean Paris V. Stefanoudis <i>University of Oxford, UK</i>
1515-1530	O6C-3: Vertical Biodiversity Zonation Revealed by Environmental DNA in the Molloy Deep, an Arctic Trench Véronique Merten <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>	O7C-3: Habitat Distribution Modelling for the Azooxanthellate Coral <i>Madracis interjecta</i> in the Mesophotic and Deep Red Sea Megan K. B. Nolan <i>King Abdullah University of Science and Technology, Saudi Arabia</i>
1530-1545	O6C-4: Phylogenomics Shed New Light on the Placement of Siboglinidae Maeva Perez <i>Hong-Kong Baptist University, Hong Kong, China</i>	O7C-4  : Skeletal Growth, Micro-Anatomy and Metabolism of Cold-Water Coral Holobiont of Three Main Reef-Building Species Robbe Joëlle <i>Sorbonne Université, France</i>
1545-1600	O6C-5: Characterizing the Biodiversity and Bathymetric Distributions of Caribbean Deep-Sea Corals through eDNA Luke J. McCartin <i>Lehigh University, USA</i>	O7C-5  : Cost-Effective Deep-Sea Biodiversity Assessments Can Inform Conservation and Sustainable Management of Deep-Sea Ecosystems Telmo Morato <i>University of the Azores, Portugal</i>
1600-1615	O6-6: Advancing Deep-Sea Mollusk Shell Genomics: Insights from the Clam <i>Archivesica marissinica</i> Qi Dai <i>Hong Kong Baptist University, Hong Kong, China</i>	O7C-6: [Invited Talk]  : Trait-based Approaches to Inform Conservation in the Deep Sea Neus Campanyà I Llovet <i>University of the Azores, Portugal</i>
1615-1635	Tea Break	
1635-1815	Poster Session Hallway Outside LT-A & LT-B	
1815-1930	Annual General Meeting of the Deep-Sea Biology Society (LT-A)	

0900-0925	Day 3 -- 15 January 2025 (Wednesday) Keynote Lecture 6 [Croucher Keynote Lecture] (LT-A) Chair: Fenping Wang From Magma to Microbe: The Subsurface Biosphere of Guaymas Basin Andreas Teske University of North Carolina at Chapel Hill, USA	
	Session 1 Biodiversity (C): Phylogenetics & Systematics LT-A Chairs: Ka Hou Chu & Dewi Langlet	Session 7: Ecology & Conservation (D) LT-B Chairs: Fanny Girard & J Murray Roberts
0930-0945	O1C-1: Time-Calibrated Phylogenomic Analyses Reveal New Insights into the Evolution of Modern and Deep-Sea Asteroidea Mengjin Zhang The University of Hong Kong, Hong Kong, China	O7D-1 [Invited Talk]: Deep-sea Coral Ecosystem Dynamics through Space and Time: Implications for Conservation Fanny Girard University of Hawai'i at Mānoa, USA
	O1C-2: Clue to the Maze: A History of Phylogenetic Relationships in Deep-Sea Typhlotanaidae (Crustacea: Tanaidacea) Marta Gellert University of Lodz, Poland	O7D-2: Time-Series Analysis of Benthic Megafauna in the Arctic Ocean Lilian Boehringer Alfred-Wegener-Institute, Germany
1000-1015	O1C-3: Phylogeography and Systematics of the Mesosignidae Schultz, 1969: Survey of Isopod Diversity in North Pacific Trenches Andreas Kelch Senckenberg Research Institute, Germany	O7D-3: Development of a Biologically-Validated, Global-Scale, Benthic Habitat Map for Use in Basin-Scale Marine Spatial Planning and Area Based Management Kerry Howell University of Plymouth, UK
	O1C-4: Analysis of Vesicomys Clam Shed Light on the Updated Taxonomy and Evolution Kexin Gao Ocean University of China, China	O7D-4: What Is a Biotope? Thoughts From a Classification Methods Comparison Rebecca E. Ross Institute of Marine Research, Norway
1030-1045	O1C-5: The Distribution of Hadal Snailfishes from the Trenches in the Northwestern Pacific Haruka Kamei University of Tokyo, Japan	O7D-5: Fading to Black: The Ambiguous Journey of Deep-Sea Shark Fisheries in the Philippines Titus Cañete Large Marine Vertebrates Research Institute Philippines, Philippines
1045-1105	Tea Break	

	Session 3: Symbiosis LT-A Chairs: Chaolun Li & Hao Wang	Session 7: Ecology & Conservation (E) LT-B Chairs: Pavanee A. Annasawmy & Fanny Girard
1105-1120	O3-1 [Invited Talk]: The Ins and Outs of Associations Between Beneficial and Pathogenic Bacteria of Deep-Sea Mussels Nicole Dubilier <i>Max Planck Institute for Marine Microbiology, Germany</i>	O7E-1 [Invited Talk]: Seamounts and Pinnacles of the Global Ocean Pavanee A. Annasawmy <i>Fondation pour la Recherche sur la Biodiversité, France</i>
1120-1135	O3-2: Exploring the Depths: Insights into Symbiosis-Driven Biodiversity in Cold Seeps Minxiao Wang <i>Institute of Oceanology, Chinese Academy of Sciences, China</i>	O7E-2: Comparing Megabenthic Communities of Cobalt-Rich Manganese Seamounts of the Mid-Pacific Mountains, Necker Ridge, and Hawaiian Ridge Sierra Landreth <i>Florida State University, USA</i>
1135-1150	O3-3: An Evolutionary Perspective on Symbioses of Alvinocaridid Shrimps Pierre Methou <i>IFREMER, France</i>	O7E-3: Diverse Megabenthic Communities Revealed by Video Surveys Along Boyd Seamount (Arctic Mid-Ocean Ridge), Norwegian Mineral-Exploration Area Irina Zhulay <i>University of Bergen, Norway</i>
1150-1205	O3-4: Host-symbiont Interactions in the Deep-sea Tubeworm <i>Lamellibrachia columna</i> Fan Hui <i>Hong Kong Baptist University, Hong Kong, China</i>	O7E-4: Vulnerable Marine Ecosystem Patch Distribution and Abundance Hotspots on Seamounts of the Hawaiian-Emperor Seamount Chain Virginia Biede <i>Florida State University, USA</i>
1205-1220	O3-5: Novel Structural Integration of Chemosymbionts in A Giant Deep-Sea Caudofoveate Worm-Mollusc from Cold Seeps Yunlong Li <i>Ocean University of China, China</i>	O7E-5: Cold-Water Coral Distribution Across Oxygen Minimum Zones in the Galapagos Islands and Isla Del Coco, Eastern Tropical Pacific Ana Belén Yáñez-Suárez <i>Memorial University of Newfoundland and Labrador, Canada</i>
1220-1235	O3-6: Abyssal Deposit Feeder Utilization of Gut Microbiota is Reflective of Feeding Ecology Lee C. Miller <i>University of Hawai'i at Mānoa, USA</i>	O7E-6: Investigating Environmental Controls on Cold-Water Coral Distributions Using a Combined 3D Photogrammetric and Benthic Monitoring Approach Corie M. Boolukos <i>University College Cork, Ireland</i>
1240-1350	Lunch	
1400	Field Trips (Registrants only)	

Day 4 - 16 January 2025 (Thursday)

Keynote Lecture 7 (LT-A)

Chair: Zongze Shao

Global Subseafloor Ecosystem and Sustainability

Fengping Wang

Shanghai Jiao Tong University, China

Session 5: Sensory Biology

LT-A

Chairs: Karen Osborn & Vanessa I. Stenvers

Session 7: Ecology & Conservation (F)

LT-B

Chairs: Pavanee A. Annasawmy & Adrian G. Glover

0900-0925		
0930-0945	O5-1 [Invited Talk]: Vision in the Deep – an Overview of Adaptations to Dim Light and Bioluminescence Tamara Frank <i>Nova Southeastern University, USA</i>	O7F-1: Bioturbation is a Key Function for the Preservation of the Abyssal Nodule Field Habitat Loïc Van Audenhaege <i>National Oceanography Centre, UK</i>
0945-1000	O5-2: Shrimp Glow, Did Ya Know? Understanding Bioluminescence in Deep-Sea Decapods Heather Bracken-Grissom <i>Florida International University, USA</i>	O7F-2: Marked Variability in Distance-Decay Patterns Suggests Contrasting Dispersal Ability in Abyssal Taxa Erik Simon-Lledó <i>National Oceanography Centre, UK</i>
1000-1015	O5-3: Bioluminescence and Environmental Light Drive Visual Evolution in the Deep Sea Danielle M. DeLeo <i>Florida International University, USA</i>	O7F-3: Feeding Niche Varies with Organismal Body Size in Abyssal Deposit Feeders Lucy V. M. Goodwin <i>University of Liverpool, UK</i>
1015-1030	O5-4 : Ontogenetic Variation in Sensory Detection in Hydrothermal Shrimp Alvinocarididae Adrien Mathou <i>Sorbonne Université, France</i>	O7F-4: Disparity of Dominant Species Across Three New Hydrothermal Vent Fields in the Mid-Atlantic Ridge Joan M. Alfaro-Lucas <i>University of Victoria, Canada</i>
1030-1045	O5-5: Bioluminescence in Deep-Sea Dragonfishes: Photophore Morphology and Proposed Functionality Ashley N. Marranzino <i>NOAA Ocean Exploration Affiliate, USA</i>	O7F-5: Abyssal Megafauna Communities and the Potential Influence of Sargassum Sedimentation – A Qualitative and Quantitative Assessment Dominik Scepanski <i>University of Cologne, Germany</i>
1045-1100	O5-6: Evolutionary Drivers of Eye Complexity and Transparency in Hyperiid Amphipods Vanessa I. Stenvers <i>Smithsonian Institution, USA</i>	O7F-6: Exploring the Growth of Deep-Sea Bivalves in Areas of Potential Seafloor Mining: The Protobranch <i>Nucula Profundorum</i> Lauren Geiser <i>University of Leeds, UK</i>
1100-1120	Tea Break	

	Session 4: Deep Pelagic Ocean (A) LT-A Chairs: Henk-Jan Hoving & Véronique Merten	Session 8: Climate Change & Human Impact (A) LT-B Chairs: Daniel O. B. Jones & Nelia Mestre
1120-1135	O4A-1 [Invited Talk]: Exploring Deep Sea Biodiversity with Environmental DNA Annette F. Govindarajan Woods Hole Oceanographic Institution, USA	O8A-1: Long-Term Impact and Biological Recovery in a Deep-Sea Mining Track after 44 Years Daniel O. B. Jones National Oceanography Centre, UK
1135-1150	O4A-2: Multi-Marker eDNA Metabarcoding Reveals Patterns of Multi-Trophic Interactions and Ecological Connectivity in the Mesopelagic Nina Yang Woods Hole Oceanographic Institution, USA	O8A-2: Long-Term Impacts of Deep-Sea Mining on Benthic Macrofaunal Communities Regan Drennan Natural History Museum, UK
1150-1205	O4A-3: Move Over Medusae: Trophic Ecology of Biomass-Dominant Gelatinous Zooplankton (Siphonophores and Pyrosomes) in the California Current Ecosystem Elizabeth D. Hetherington Scripps Institution of Oceanography, University of California San Diego, USA	O8A-3: Impacts of an Industrial Deep-Sea Mining Trial on Seafloor Biodiversity Eva C. D. Stewart Natural History Museum, UK
1205-1220	O4A-4: Novel Pelagic in situ Imaging Systems to Study Species Composition and Food-Web Structure in the Deep Pelagic Ocean Jan Taucher GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany	O8A-4: The Environmental Impacts of Deep-Sea Mining Adrian G. Glover Natural History Museum, UK
1220-1235	O4A-5: Examining the Diets of Deep-Sea Cephalopods from the Northern Gulf of Mexico Using a Metabarcoding Approach Heather Judkins University of South Florida St. Petersburg, USA	O8A-5: The Persistent Impact of Abyssal Seafloor Disturbance Andrew R. Gates National Oceanography Centre, UK
1235-1250	O4A-6 : First Investigations of Dietary and Habitat Overlap in Three New Zealand Deep-Sea Squid Species Samuel Clough Auckland University of Technology, New Zealand	O8A-6: Environmental Challenges of a Green Energy Transition in the Offshore Energy Sector: A Review to Guide Global Marine Planning in a Green Future Lucy Harris National Oceanography Centre, UK
1300-1400	Lunch	
1415-1440	Keynote Lecture 8 [Croucher Keynote Lecture] (LT-A) Chair: Moriaki Yasuhara Deep Sea Biodiversity Under Climate Change: Contributions, Vulnerabilities and Conservation Lisa A. Levin Scripps Institution of Oceanography, University of California San Diego, USA	

	Session 4: Deep Pelagic Ocean (B) LT-A Chairs: Véronique Merten & Vanessa I. Stenvers	Session 8: Climate Change & Human Impact (B) LT-B Chairs: Nelia Mestre & Moriaki Yasuhara
1445-1500	O4B-1: The Hidden Diversity, Behaviour and Life Histories of Atlantic Deep-Sea Cephalopods Henk-Jan Hoving <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>	O8B-1: Marine Litter in Brazilian Deep-Sea Fish Gastrointestinal Contents Flávia T. Masumoto <i>Universidade de São Paulo/Instituto Oceanográfico, Brazil</i>
1500-1515	O4B-2: In Situ Observations of Deep-Sea Cephalopods in Beaked Whale Predator’s Foraging Habitat Julia Stefanschitz <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>	O8B-2: Long-Term Ecotoxicological Effects of Sediment Plumes on Deep-Sea Invertebrates Following a Polymetallic Nodules Collection Trial Pasqualina Gaetano <i>University of Algarve, Portugal</i>
1515-1530	O4B-3 : Accidental in Situ Observations Reveal Previously Unknown Behaviour Type in Cephalopods, Relevant to Benthopelagic Coupling Alexey V. Golikov <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>	O8B-3: Ecotoxicological Effects in Hydrothermal Vent Shrimp and Polychaetes Exposed in Situ to Sulphide Particles Santiago Correia <i>University of Algarve, Portugal</i>
1530-1545	O4B-4 : Trophic and Functional Specialization in Deep-Pelagic Fish Along the Depth Gradient in the Bay of Biscay Liz Loutrage <i>La Rochelle University, France</i>	O8B-4: Are Sea Anemones Useful Tools for Assessing the Ecotoxicological Impact of Deep-Sea Sediments and Manganese Exposure? Juliano M. Vilke <i>University of Algarve, Portugal</i>
1545-1600	O4B-5: From the Deep-Sea and Beyond: How Patagonian Toothfish, a Megafauna, May Connect Distant Biomes Chi Hin Lam <i>Large Pelagics Research Center, USA</i>	O8B-5: Metal Impacts on Deep-Sea Microbial Diversity and N Cycling Potential Leonor Pizarro <i>University of Porto, Portugal</i>
1600-1615	O4B-6: The Success of Spiny-Rayed Fishes in the Deep-Pelagic Ocean Discovered Using a Large Midwater Trawl April Cook <i>Nova Southeastern University, USA</i>	O8B-6: Ecotoxicological Response to in situ Exposure to Sulphides in <i>Bathymodiolus azoricus</i> Leandro Marinho <i>University of Algarve, Portugal</i>
1615-1630	O4B-7: To Brood or Not to Brood: Predicting Larval Strategies in the Asteroidea Hugh Carter <i>Natural History Museum, UK</i>	O8B-7: In situ Disturbance Effects on the Proteome of the Hydrothermal Vent Mussel <i>Bathymodiolus azoricus</i> Cármén S. V. Sousa <i>University of Algarve, Portugal</i>
1630-1650	Tea Break	
	Session 4: Deep Pelagic Ocean (C) LT-A Chairs: Henk-Jan Hoving & Vanessa I. Stenvers	Session 8: Climate Change & Human Impact (C) LT-B Chairs: Sarah Seabrook & Moriaki Yasuhara
1650-1705	O4C-1 [Invited Talk]: Non-invasive Methods for Studying Midwater Jellyfish Gerlien Verhaegen <i>University of Greifswald, Germany</i>	O8C-1 [Invited Talk]: The Deep Ocean Under Climate Change Sarah Seabrook <i>National Institute of Water and Atmospheric Research, New Zealand</i>

1705-1720	O4C-2: Deep-Pelagic Nekton Research in the Gulf of Mexico: A 14-Year Synopsis and Future Directions Tracey Sutton <i>Nova Southeastern University, USA</i>	O8C-2: Deep Pelagic Micronekton Reflect Differences in Mercury Bioavailability Within the Southern California Current Ecosystem Rachel S. Chen <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>
1720-1735	O4C-3: The Bathy and Abyssopelagic Micronekton Communities in the Eastern Pacific Clarion Clipperton Mining Zone Jeffrey C. Drazen <i>University of Hawai‘i at Mānoa, USA</i>	O8C-3: Maternal Transfer of Polycyclic Aromatic Hydrocarbons in Mesopelagic Fauna from the Northern Gulf of Mexico Isabel C. Romero <i>University of South Carolina, USA</i>
1735-1750	O4C-4: Micronekton Community Assessment in A Deep-Sea Mining Site: Vertical Community Structuring and Biodiversity in an OMZ Victoria E. Assad <i>University of Hawai‘i at Mānoa, USA</i>	O8C-4: Zooplankton Community Structure in The Abyssal Benthic Boundary Layer Varies Over Time with Organic Matter Flux Gabrielle N. Ellis <i>University of Hawai‘i at Mānoa, USA</i>
1750-1805	O4C-5: Distinct Horizontal and Vertical Communities of Micronekton Across the Southern California Current Deep-Pelagic Ecosystem Elan J. Portner <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>	O8C-5: Predicting Habitat Suitability Changes for Vulnerable Marine Ecosystems in the Northeast Atlantic under Future Climate Scenarios Jonatan F. Marquez <i>Institute of Marine Research, Norway</i>
1805-1820	O4C-6: Biological Traits Influence Contemporary and Historical Temporal Genomics of Pelagic Deep-Sea Species from The Gulf of Mexico Pedro A. Peres <i>Florida International University, USA</i>	O8C-6: Testing the Deep-Sea Glacial Disturbance Hypothesis of Norwegian Sea Diversity, Using Fossil Records Moriaki Yasuhara <i>The University of Hong Kong, Hong Kong, China</i>
1820-1835	O4C-7: Hepatic Steatosis in Hadal Snailfish as an Adaptation to Extreme Environment Guoyong Yan <i>The Hong Kong University of Science and Technology, Hong Kong, China</i>	O8C-7 : Lipid Dynamics in the Cold-Water Coral <i>Dentomuricea</i> aff. <i>meteor</i>: Effects of Ocean Warming and Reproductive Condition Anaïs Sire de Vilar <i>University of the Azores, Portugal</i>
1845-2030	Banquet	

Day 5 - 17 January 2025 (Friday)

0900-0925	Keynote Lecture 9 [Croucher Keynote Lecture] (LT-A) Chair: Fengping Wang	
	Cold-Water Corals in a Changing Ocean J. Murray Roberts <i>University of Edinburgh, UK</i>	
	Session 10: Arts and Science in Deep-Sea Environmental Management LT-A Chairs: Maria Baker & Jozée Sarrazin	Session 12: Open Session (A) LT-B Chairs: Dominique Anderson & Maila Guilhon
0930-0945	O10-1 [Invited Talk]: Broadening Our Views on Common Heritage: Factoring in Art, Science and all Forms of Knowledge in the Politics and Regulatory Framing of the Deep Sea Pradeep A. Singh <i>Research Institute for Sustainability, Germany</i>	O12A-1 [Invited Talk]: Thinking Deeply: Reflections on Experiences, Practices and Values in Deep-Sea Science Diva Amon <i>University of California Santa Barbara, USA</i>
0945-1000	O10-2: Measuring the Success of the Kunming-Montreal Global Biodiversity Framework in the Deep Sea Anna Metaxas <i>Dalhousie University, Canada</i>	O12A-2 [Invited Talk]: Democratising the Deep Sea Sheena Talma <i>University of Oxford, UK</i>
1000-1015	O10-3  : Communicating Azores Deep-Sea Benthic Communities through Scientific Illustrations Inês Carneiro <i>University of the Azores, Portugal</i>	O12A-3: "Costa Rica Desconocida" - A Campaign for Awareness and Cultural Integration of Deep-Sea Environments Beatriz Naranjo-Elizondo <i>Universidad de Costa Rica, Costa Rica</i>
1015-1030	O10-4: Tracking Bottom-Fishing Activities of the European Union’s Deep-Sea Fishing Fleet in Vulnerable Marine Ecosystem Areas Lisette Victorero <i>Deep Sea Conservation Coalition, Netherlands</i>	O12A-4: ‘Dos’ in Deep-Sea Research: The Case Study of the Octopus Odyssey Maila Guilhon <i>University of Edinburgh Ocean Voices Programme, UK</i>
1030-1045	O10-5  : One Thousand Reasons – an Inspiring Step towards the Protection and Sustainable Use of the Deep-sea Luciana Genio <i>International Seabed Authority, Jamaica</i>	O12A-5: Understanding Human Values and Risk Perceptions in Deep-Ocean Stewardship Laura Kaikkonen <i>Finnish Environment Institute, Finland</i>
1045-1100	O10-6: Coupling “Arts & Sciences”: Inspiration and Innovation to Increase Ocean Literacy Jozée Sarrazin <i>IFREMER, France</i>	O12A-6: Enhancing the Voices of Deep-Sea Early Career Ocean Professionals – a Framework Vanessa Lopes <i>University of Edinburgh, UK</i>
1100-1120	Tea Break	

	Session 1: Biodiversity (D): Ecology LT-A Chairs: Adrian G. Glover & Hidetaka Nomaki	Session 12: Open Session (B) LT-B Chairs: Dominique Anderson & Maila Guilhon
1120-1135	O1D-1 [Invited Talk]: Ecology of Deep-Sea Protistan and Metazoan Meiofauna: Experimental Approaches Hidetaka Nomaki <i>Japan Agency for Marine-Earth Science and Technology, Japan</i>	O12B-1: Blue (un)certainities: Deep-Sea Mining Policy Process in the Arctic Mid-Ocean Ridge, Norway Aistė Klimašauskaitė <i>University of Bergen, Norway</i>
1135-1150	O1D-2 : A Deep-Sea Isopod That Consumes <i>Sargassum</i> Sinking from the Ocean’s Surface Mackenzie Gerringer <i>State University of New York at Geneseo, USA</i>	O12B-2: Perspectives on Part II: Science-Policy Engagement, Challenges, and Opportunities for the Marine Genetic Resource Provisions of the BBNJ Agreement Muriel Rabone <i>Natural History Museum, UK</i>
1150-1205	O1D-3: Rocky Seafloor — Underestimated Driver for Habitat Heterogeneity and Benthic Biodiversity (RUBBLE) Torben Riehl <i>Senckenberg Research Institute and Natural History Museum Frankfurt, Germany</i>	O12B-3: The Ghost Net Movement Raises Awareness on the Vulnerability of Deep Sea Habitats Lynette Griffiths & Virginie Tilot <i>Ghost NET Collective, Australia; Muséum National d’Histoire Naturelle, France</i>
1205-1220	O1D-4: Illuminating the Diversity of Deep-Sea Anthozoans Found in Selected Sites of the Northwestern Pacific Kurt Bryant B. Bacharo <i>University of the Ryukyus, Japan</i>	O12B-4: A Different Approach to The Research Internship George Matsumoto <i>Monterey Bay Aquarium Research Institute, USA</i>
1220-1235	O1D-5: Calcareous Tubeworms (Serpulidae, Annelida) of the Abyss Revisited: Mystery of Elusive and Mysterious Mollusk-Like Worms Solved Elena Kupriyanova <i>Australian Museum Research Institute, Australia</i>	O12B-5: A Streamlined Data Pipeline for Image Contribution and Archiving in FathomNet Brian Schlining <i>Monterey Bay Aquarium Research Institute, USA</i>
1235-1250	O1D-6: A Pioneering Long-Term Experiment: Mesophotic Macrofouling Communities in the North Atlantic João Canning-Clode <i>Agência Regional para o Desenvolvimento da Investigação Tecnologia e Inovação, Portugal</i>	O12B-6: Sustainability and the Common Heritage of Humankind: What It Means to Safeguard the Area for Current and Future Generations Tajra Smajic <i>The Chinese University of Hong Kong, Hong Kong, China</i>
1300-1400	Lunch	
1415-1440	Keynote Lecture 10 [Croucher Keynote Lecture] (LT-A) Chair: Rui Zhang	
	New Frontiers in Deep-Sea Biological Research Roberto Danovaro <i>Polytechnic University of Marche, Italy</i>	

	Session 1: Biodiversity (E) Biogeography	Session 9: Novel Methods & Practices
	LT-A	LT-B
	Chairs: Jon Copley & Tim O'Hara	Chairs: Adrienne Copeland & Ashley N. Marranzino
1445-1500	O1E-1: Biogeography of Arctic Vents and Seeps: How and Why does it Differ as a Province? Jon Copley <i>University of Southampton, UK</i>	O9-1 [Invited Talk]: Progress in the Development of Standards and Best Practice in Benthic Imagery Annotation and Onward Data Use in AI Applications Kerry Howell <i>Plymouth Marine Laboratory, UK</i>
1500-1515	O1E-2: Across Trenches, Plains and Ridges – Distribution and Differentiation Patterns of Deep-Sea Isopods in the North Pacific Ocean Henry Knauber <i>Senckenberg Research Institute and Natural History Museum Frankfurt, Frankfurt am Main</i>	O9-2 [Invited Talk] : Towards Fully Open and FAIR Deep Sea Biology Data Karen I. Stocks <i>Scripps Institution of Oceanography, University of California San Diego, USA</i>
1515-1530	O1E-3: Global Evolutionary Biogeography of the Ophiuroidea Tim O’Hara <i>Museums Victoria, Australia</i>	O9-3: Capture by Hybridization, State of the Art Tool for Unravelling the Biodiversity of the Deep Babett Günther <i>GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany</i>
1530-1545	O1E-4 : Exploring the Unknown: NOAA Okeanos Expeditions Reveal Alaska's Hidden Deep-Sea Sponge and Coral Communities Lara M. Beckmann <i>University of Gothenburg, Sweden</i>	O9-4: Mapping Tetractinellid Sponge Abundance and Sizes with Instance Segmentation: Exploring the Potential of New Technologies for Understanding Deep-Sea Ecosystems Nils Piechaud <i>Institute of Marine Research, Norway</i>
1545-1600	O1E-5: Inventory of Bathyal Holothurian Species in New Caledonia EEZ Over Half a Century Claire Laguionie <i>Museum National d'Histoire Naturelle, France</i>	O9-5: Deep-Sea Neoichnology: New Lebensspuren Classification Scheme and Applicabilit Olmo Miguez-Salas <i>University of Barcelona, Spain</i>
1600-1615	O1E-6: Spatial and Bathymetric Diversity of Tanaidacea (Crustacea) Assemblages in the Bering Sea and Aleutian Trench Kamila Gluchowska <i>University of Łódź, Poland</i>	O9-6: Computer Vision to Unravel Biotic and Biotic Factors Explaining the Fine-Scale Distribution of Cold-Water Corals Marin Marcillat <i>Institut Français de Recherche pour l'Exploitation de la Mer, France</i>
1615-1630	O1E-7: The Phylogeography of the Cumacean <i>Eudorella Emarginata</i> Kai Okamoto <i>The University of Tokyo, Japan</i>	O9-7: Application and Transferability of Object Detection Models to Support the Identification of Benthic Epifauna from Imagery Kyran P. Graves <i>University of Plymouth, UK</i>
1630-1650	Tea Break	
1650-1730	Closing Ceremony (LT-A)	

