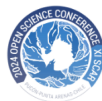


11<sup>TH</sup> SCAR OPEN SCIENCE CONFERENCE  
PUCÓN, CHILE, 19-23 AUGUST 2024



Monday, 19th August

08:00-08:30		Opening Ceremony	Room: Ballroom
08:30-09:15		Plenary Lecture: Dr Sally Lau "Learning from the persistence of Southern Ocean benthic invertebrates"	Room: Ballroom
09:30-11:00		Joint SCAR/COMNAP Mini-Symposium: A Promising Future for Antarctic Research: Facilitation of circumpolar initiatives through science and science support partnerships	Room: Ballroom

Monday, 19th August

Block 1: 11:30-13:00

Order	Presenting author	Abstract ID	Abstract title	
<b>Session 3: Polar climate change, variability and teleconnections in the past, present, and future (Atmospheric Science / Teleconnections)</b>				Room: Euphausia (Enjoy)
<i>Note: The presentations in this block are 9 minutes of oral presentation + 2 minutes of questions</i>				
11:32-11:43	John Cassano	285	Variability in Boundary Layer Stability Across Antarctica	
11:43-11:54	Eva Nielsen	652	The spatial extent of temperature trends and extreme events across Antarctica for the period 2003-2021	
11:54-12:05	Tom Bracegirdle	642	Sensitivity of surface winds in coastal Antarctica to configuration of the regional Met Office Unified Model	
12:05-12:16	Ryan Fogt	561	How the weather may have affected the fate of Shackleton's Endurance	
12:16-12:27	Sergi Gonzalez	952	Impact of climate change on snowmelt on the Antarctic peninsula during heatwaves using pseudo-global warming simulations	
12:27-12:38	Song Yang	645	Unraveling the Forcings behind West Antarctic Summer Melt: CMIP6 Perspectives on Remote Climate Drivers	
12:38-12:49	Pranab Deb	863	Recent trends in West Antarctic surface melt linked to central Pacific SST and SPCZ	
<b>Session 41: Biodiversity and Conservation (Antarctic Specially Protected Areas)</b>				Room: Pygocelis (Enjoy)
11:35-11:45	Fritz Hertel	500	Largest Adélie population of the Antarctic Peninsula Region now under protection	
11:45-11:55	Oakes Holland	301	The forgotten nearshore: the complexities of protecting coastal marine ecosystems	
11:55-12:05	María Victoria Quiroga (on behalf of Valeria Casa)	246	Antarctic Wetlands conceptualization and characterization for better protecting key biodiversity hotspots	
12:05-12:15	Anna Wright	134	Protecting Antarctica's terrestrial biodiversity: Assessing the coverage of McMurdo Dry Valley's freshwater ecosystems in the protected area network	
12:15-12:25	Sharon Robinson (on behalf of Barbara Bollard)	916	How good science and engagement informs the best ASPA management plans	
12:25-12:35	Maximiliano Anzibar Fialho	1088	Detection of anthropogenic noise pollution as a possible chronic stressor in Antarctic Specially Protected Area No. 150, Ardley Island	
12:35-12:45	Annick Wilmotte	1439	Belgium at the Science-Policy interface in the Antarctic Treaty System: creation of a protected area for environmental and scientific values	
<b>Session 27: Microbial Biogeography of Antarctica and Southern Ocean</b>				Room: Colobanthus (Enjoy)
11:35-11:45	David Pearce	1414	SLIDE – Southern Latitudes Island Dispersal Evaluation	
11:45-11:55	Swan Li San Sow	992	Spatial and temporal variations of Antarctic microbial interactions - a study at the western Antarctic Peninsula	
11:55-12:05	Matthew Davey	1313	Antarctic snow algae - physiology and diversity	
12:05-12:15	Ana Justel	1605	Are microbiota connected between poles? The answer is blowin' in the wind	
12:15-12:25	Diego Ahumada Munoz	1467	The microbial community assembly processes vary across time, space, and habitat, in Antarctic lakes.	
12:25-12:35	Nayla Cassiel Serey Suil	1435	The Antarctic Polar Front shapes prokaryotic and microeukaryotic communities across the Drake Passage, Southern Ocean	
12:35-12:45	Renato Gamba Romano	986	Patterns of air mass incursions from southern ocean play a role on microbial dispersions into West Antarctic Ice Sheet	
<b>Session 19 : Southern ocean phyto and zooplankton (Krill)</b>				Room: Usnea (Enjoy)
11:35-11:45	Jennifer Freer	1218	Utilising a decade of data to explore the spatial and temporal variability of Antarctic krill around the South Orkney Island archipelago	

11:45-11:55	Jose Antonio Canseco Rodriguez	1291	Can we really use design-free hydroacoustic data from fishing vessels as a cat's paw to assess Antarctic krill abundance and distribution off the South Orkney Islands?			
11:55-12:05	Zephyr Sylvester	763	Exploring the impacts of the details of simulating early life stage behavior on Antarctic krill connectivity across the West Antarctic Peninsula			
12:05-12:15	Javier Babbonney Valenzuela	1167	Potential Effects of Climate Change on the reproductive success of <i>Salpa thompsoni</i> and <i>Euphausia superba</i> : A circumpolar estimation using Individual-Based Models			
12:15-12:25	Cian Kelly	228	Variability in Antarctic krill transport pathways in the Atlantic sector of the Southern Ocean: Results from high-resolution model simulations			
12:25-12:35	Nicole Hellessey	215	An individual-based model (ibm) of Antarctic krill ( <i>euphausia superba</i> ) swimming behaviour: from experimental observations to a working model			
12:35-12:45	Anona Griffiths	244	The effects of life stage on Antarctic krill faecal pellet attenuation			
<b>Session 28 : The Antarctic Benthos - Environmental drivers and ecosystem dynamics</b>				<b>Room: Glyponothus (Enjoy)</b>		
11:35-11:45	Valentina Cometti	1114	Analysis of the structure and dynamics of pioneer benthic communities in Terra Nova Bay (Ross Sea, Antarctica) using the Autonomous Reef Monitoring Structures (ARMS)			
11:45-11:55	Tasnuva Ming Khan	146	Population ecology of two deep-sea cup coral (likely Family: Caryophylliidae) morphotypes from the Powell Basin, Antarctica			
11:55-12:05	Chuck Amsler	444	Short-term interannual variation in macroalgal communities on the Western Antarctic Peninsula			
12:05-12:15	Camila Neder	516	Zoobenthic fauna distribution in an Antarctic fjord area under glacier retreat			
12:15-12:25	Lea Katz	680	How benthic communities respond to environmental gradients in the West Antarctic Peninsula			
12:25-12:35	Claudio Gonzalez Webar	1082	Biogeographical patterns in the genus <i>Laevilitorina</i> (Gastropoda: Laevilitorininae) across its distribution in different provinces of the Southern Ocean			
12:35-12:45	Vonda Cummings	817	Coastal benthic communities as sentinels of changing Antarctic environments			
<b>Session 37: Doing science better: Emerging technologies and their applications</b>				<b>Room: Arctocephalus (Enjoy)</b>		
11:35-11:45	Rogelio Morales	28	Swarm Robotics: A New Approach for Antarctic Scientific Exploration			
11:45-11:55	Natasha Nigar	131	A Robust Energy Advising System Leveraging Machine Learning in Antarctica			
11:55-12:05	Peter McComb	179	Ice Floe Characterisation using a Ship-based Camera Technique			
12:05-12:15	Lorena Rebolledo	766	A new underwater vehicle (Glider) for studying the oceanographic characteristics in the Subantarctic and Antarctic zone			
12:15-12:25	Annie Schmidt	1513	Rapid Assessments, Stark Realities: AI-Enhanced Multi-UAV Surveys Reveal Recent Declines in Adélie Penguin Numbers on Ross Island			
12:25-12:35	Simon Morley	868	Baited Remote Underwater Video Systems (BRUVS) for Antarctic biodiversity monitoring			
12:35-12:45	Holly Still	909	Precise GNSS positioning with low-cost technology: Case studies from Antarctica			
<b>Session 33: Antarctic governance, science and law at the international and domestic level (The Antarctic and the relationship with other international regimes)</b>				<b>Room: Nothofagus (Enjoy)</b>		
11:35-11:45	Gatica Fernandez, Catalina Paz	1524	Protection of whales in the light of the Antarctic Treaty System			
11:45-11:55	Tracey, Hope Elizabeth	731	Reconsidering Antarctic Marine Bioprospecting Governance in Light of the BBNJ Agreement			
11:55-12:05	Andrade Teixeira, Bruno	1170	The non-evolution of cooperation: the influence of economic interests in the exclusion of the bioprospecting agenda from the International Antarctic Regime			
12:05-12:15	Wichers, Hubertha	640	Planning and management of touristic and recreational activities under the Antarctic Treaty System – now and into the future			
12:15-12:25	Valdivia Cerda, Victoria Fernanda	548	Counterspace capabilities within the Antarctic Treaty System: Uncovering the emerging hazard from space technologies for the principle of peaceful uses of Antarctic territory and its governance.			
<b>Session 43: Literacy and science education on Antarctica, Earth systems and global change</b>				<b>Room: Macronectes (UFRO)</b>		
11:35-11:45	Prof. José Xavier	287	The role of education and outreach at the Antarctic Treaty Consultative Meetings: is science being used enough?			
11:45-11:55	Sophie Weeks	1572	Has the International Polar Year learnt it's lesson?			
11:55-12:05	Nadia Politis	46	Antarctica in Chilean schools: Inclusion of new narratives and the use of technology in the educational curriculum. Insights and challenges			
12:05-12:15	Constanza Jimenez	1068	Antarctic School Fair: 20 years of collaborative science at the secondary school level			
12:15-12:25	Juan Cristina	1063	Ten years of the Introduction to Antarctic Research Summer school: the next generation of Uruguayan polar researchers.			
12:25-12:35	Silvia Dotta	118	Developing a 3D Virtual Museum for Non-Formal Education			
12:35-12:45	Claudia Soto García	1067	Antarctic education outside Antarctica. Transdisciplinary teaching experience in research on Antarctic issues in a secondary school			

<b>Session 23 : Sub-Antarctic Islands – Sentinels of Change (Observations in a changing environment)</b>			<b>Room: Neodraco (UFRO)</b>
11:35-11:45	Justine Shaw	1310 Subantarctic conservation success: what's the science telling us?	
11:45-11:55	Dulcinea Groff	1047 Evaluating drivers of marine animal mass mortality events recorded in bone piles in the Falkland Islands	
11:55-12:05	Tomás Ignacio Marina	1137 Carbon flow web model for the inner and outer Beagle Channel (Sub-Antarctica) during springtime	
12:05-12:15	Marcelo López-Orellana	1059 Molecular phylogeny and divergence time estimations in Siphonaria (Gastropoda: Siphonariidae) across its distribution in the sub-Antarctic.	
<b>Session 31: Antarctic Tourism: Search and Research for a Sustainable Future? ( sustainability and tools for management)</b>			<b>Room: Desmarestia (UFRO)</b>
11:35-11:45	Lea Kannar-Lichtenberger	152 Protecting Antarctica: creating a balance between preservation and tourism	
11:45-11:55	Daniela Cajiao	375 The Elephant in the Room? An Analysis of the carbon footprint of tourism activities in Antarctica	
11:55-12:05	Ao Yu	485 International Rules for Antarctic Tourism: Current Situation, Trend Analysis and Countermeasures	
12:05-12:15	Droupti Yadav	988 Ecotourism in the Polar regions (Arctic and Antarctic): A Post-Pandemic Approach for Global Environmental Sustainability	
12:15-12:25	Keltoum Boumedjane	1552 Traveling in times of Highly Pathogenic Avian Influenza: a new form of biosecurity and disease surveillance commitment?	
<b>Session 14 : Sub-ice geology, sub-glacial hydrology and Antarctic Ice Sheet stability</b>			<b>Room: Cryolophosaurus (UFRO)</b>
11:35-11:45	Felipe Napoleoni	222 Subglacial Conditions Beneath the Central Flow Line of Thwaites Glacier: Wetness and Roughness	
11:45-11:55	Benjamin Hills	226 Entrained water in basal ice suppresses radar bed-echo power at the active subglacial lakes of Whillans Ice Plain, West Antarctica	
11:55-12:05	Pavel Talalay	264 Proposed exploration of Subglacial Lake Qilin in East Antarctica Sub-ice geology, deep crustal structures, and lithosphere-cryosphere interactions at the western margin of the West Antarctic Rift System, North Victoria	
12:05-12:15	Antonia Ruppel	269 Land, from comprehensive analysis of combined geophysical and geological data	
12:15-12:25	German Leitchenkov	305 First focused geological sampling beneath the East Antarctic Ice Sheet	
12:25-12:35	Rogier Westerhoff	760 Increased awareness of the importance of hydrogeology and groundwater in Antarctica	
<b>Monday, 19th August</b>			
<b>Block 2: 14:00-15:30</b>			
<b>Session 3: Polar climate change, variability and teleconnections in the past, present, and future (Teleconnections / Paleoclimate)</b>			<b>Room: Euphausia (Enjoy)</b>
<i>Note: The presentations in this block are 9 minutes of oral presentation + 2 minutes of questions</i>			
14:02-14:13	Naoyuki Kurita	416 Warming in the interior of East Antarctica driven by the change in the Southern Oceanic frontal zone	
14:13-14:24	Kyle Clem	407 Recent record-strong deepening of the Amundsen Sea Low: regional impacts and links to tropical variability	
14:24-14:35	Francisco Aquino	1542 Climate change and extreme events associated with tropical-polar teleconnections in southeastern South America	
14:35-14:46	Francisco Aquino (on behalf of Sheeba Chenoli)	963 Exploring the Linkages between Antarctic Sea Ice and Indian Summer Monsoon	
14:46-14:57	Suchithra Sundaram	445 An investigation on the boreal summer moisture transport from the Antarctic to the Arctic and its relationship with the Indian summer monsoon	
14:57-15:08	Pedro Valente	799 Teleconnections between ENSO, SAM and PSA in precipitation anomalies in Southeastern South America	
15:08-15:19	Edward Hanna	220 Antarctic and Greenland ice sheets 'weather' versus 'climate' timescales of variability from days to millennia	
<b>Session 41: Biodiversity and Conservation (Plastics in the Antarctic environment)</b>			<b>Room: Pygocelis (Enjoy)</b>
14:05-14:15	Juan Pablo Lozoya (on behalf of Karen Portilla)	784 Exploring the Icy Depths: Macroplastics Across South Shetland Islands	
14:15-14:25	Juan Pablo Lozoya	964 Plastic debris on the shores of Hope Bay: stranded testimony of the historical occupation in the northern Antarctic Peninsula	
14:25-14:35	Katherine Gallagher	977 Quantifying Potential Marine Debris Sources and Potential Threats to Penguins on the West Antarctic Peninsula	
14:35-14:45	Barbara De Feo	1352 Intra- and interspecific transfer of microplastics by feeding and predation in seabirds of the Fildes Peninsula, King George/25 de Mayo Island, Antarctica	
14:45-14:55	Natalie Simmons	341 Quantifying Microplastic Concentration in Invertebrates from Three Antarctic Fjords	
14:55-15:05	Evelyn Krojmal	954 Microplastics and their interaction with zooplankton in an Antarctic Lake: a perspective with environmental concentrations and presence of biofilm	
15:05-15:15	Alex Aves	95 How much plastic is in the air? A quantitative intercomparison of common microplastic analysis methods and new observations from Northern Victoria Land	
<b>Session 27: Microbial Biogeography of Antarctica and Southern Ocean</b>			<b>Room: Colobanthus (Enjoy)</b>

14:05-14:15	Stephen Noell	808	In Extremis – Culturing the Unique Microbial Diversity of Antarctica’s Geothermal Refugia			
14:15-14:25	Graciana Willis	388	Unraveling microbially-mediated iron and sulfur cycles in surface sediments of Potter Cove, a climate change hotspot			
14:25-14:35	David Robinson	1265	Shotgun metagenomics reveals microbial biogeochemical cycling in two amictic lakes in the McMurdo Dry Valleys of Antarctica			
14:35-14:45	Aparna Banerjee	385	Understanding the interrelationship of environmental biogeochemistry and microbial community dynamics in the intertidal geothermal ecosystems of Deception Island, Antarctica			
14:45-14:55	Ignacio Gutierrez Cortes	1520	Comparing endolithic and edaphic microbial community diversities from Livingston Island and King George Island (South Shetland)			
14:55-15:05	Rafael González Serrano	910	Identification of viral communities in a terrestrial transect across several ice-free regions of Antarctica			
15:05-15:15	Bhaskar Parri	857	Microbial diversity and dissolved carbohydrates in the euphotic zone of the Indian sector of Southern Ocean during austral summer			
<b>Session 19 : Southern ocean phyto and zooplankton (Krill, zoo- and phytoplankton)</b>				<b>Room: Usnea (Enjoy)</b>		
14:05-14:15	Rob King	605	An integrated approach to marine plankton and micro-nekton capture and research at the Australian Antarctic Division			
14:15-14:25	Rachel Linnea Kaplan	735	Wintertime Antarctic krill swarms offer elevated energy density to predators in the Gerlache Strait			
14:25-14:35	Camila Cataldo	29	Euphausiids Unveiled: Comprehensive Study of E. superba, E. crystallorophias and E. triacantha Diet – a DNA metabarcoding and Stable isotope approach			
14:35-14:45	Vankara Venkataramana	155	What drives zooplankton assemblages in the coastal waters of Eastern Antarctica during sea ice melting season?			
14:45-14:55	Georgia Pollard	681	Developing a high-throughput genetic method to elucidate the diversity and abundance of zooplankton from Southern-Ocean Continuous Plankton Recorder (CPR) collections			
14:55-15:05	Letícia Baldoni	348	Trophic Coupling and Zooplankton Distribution Dynamics Across the Water Column: Insights from a 20-Hour Experiment in the Bransfield Strait, Northern Antarctic Peninsula			
15:05-15:15	Irene Schloss	1259	Responses of phytoplankton assemblages to changes in salinity and temperature: a synthesis of the results since 2010			
<b>Session 28 : The Antarctic Benthos - Environmental drivers and ecosystem dynamics</b>				<b>Room: Glyponothus (Enjoy)</b>		
14:05-14:15	Maria Piotto	719	Ecological processes underlying climate-driven shifts in Antarctic benthic assemblages			
14:15-14:25	Alice Guzzi	1110	Long-Term Monitoring of Antarctic Benthos through Photogrammetry: Automated Organism recognition and Library Development			
14:25-14:35	Huw Griffiths	40	Antarctic benthic ecological change			
14:35-14:45	Diego Giménez	1505	Carbon sequestration in Antarctic Peninsula fjords under the influence of glacial retreat, Potter Cove as a model ecosystem			
14:45-14:55	Angie Diaz	1506	Likely repercussions of climate change on the unknown biodiversity of the Southern Ocean: The case of the gastropod Neobuccinum E. A. Smith, 1879			
14:55-15:05	Andre Calloni Souza	1611	Composition and abundance of the benthic megafauna in Martel inlet, King George Island, Antarctica using ROV surveys			
15:05-15:15	Linda Waters	1614	Valuing field time: developing multiple seafloor visualization methods to compensate for variable Antarctic weather to map benthic megafauna of King George Island			
<b>Session 37: Doing science better: Emerging technologies and their applications</b>				<b>Room: Arctocephalus (Enjoy)</b>		
14:05-14:15	Youhong Sun	1092	Progress and future plan of Chinese scientific drilling in Antarctica			
14:15-14:25	Nan Zhang	665	Ice and subglacial bedrock drilling project at Princess Elizabeth Land, East Antarctica			
14:25-14:35	Xianzhe Wei	702	Sidewall borehole thermal ice corer for glaciers and ice sheets			
14:35-14:45	Britney Schmidt	1078	Polar Access Drill Enabling Light Logistics Implementation for Exploration and Science (Polar-ADELIES)			
14:45-14:55	Veronica Guerrero	687	Advancements in Bi-directional Cryobot Technology for Antarctica and Beyond			
14:55-15:05	Clemens Espe	1437	TRIPLÉ-IceCraft – Electro-thermal drill to transport of scientific payloads for in-situ measurements in the ice and clean access to subglacial lakes			
15:05-15:15	Vickie Siegel	677	Puck-based data transmission using adaptive radio modems for through-ice communications			
<b>Session 33: Antarctic governance, science and law at the international and domestic level (The Antarctic within regional and domestic context)</b>				<b>Room: Nothofagus (Enjoy)</b>		
14:05-14:15	Patra, Chinmay Kumar	23	Antarctic Governance: Bridging the Nexus of Science and Law in International and Indian Antarctic Act, 2022			
14:15-14:25	Leeger, Rose	455	China’s Evolving Role in Antarctica: A Case Study in International Geopolitics			
14:25-14:35	Shan, Yanyan	666	New changes for the Ross Sea Region: the opening up of the fifth Chinese Antarctic Research Station --Qingling			
14:35-14:45	Cardone, Ignacio	1336	The Role of the Meeting of Administrators of Latin-American Antarctic Programmes (RAPAL) in institutionalising South-America cooperation in Antarctica			
14:45-14:55	Gardiner, Natasha	65	Taming a ‘fuzzy beast’? Stakeholder perspectives on Antarctic science-policy knowledge exchange practices in New Zealand			

<b>Session 43: Literacy and science education on Antarctica, Earth systems and global change</b>			<b>Room: Macronectes (UFRO)</b>
14:05-14:15	José Abreu	1200 Early Career Researchers as ambassadors of Polar Literacy: the importance of education and outreach	
14:15-14:25	Francyne Elias-Piera	1112 PRESERVING ANTARCTICA FOR PLANETARY SUSTAINABILITY: THE IMPACT OF GELO NA BAGAGEM INSTITUTE	
14:25-14:35	Elaine Alves dos Santos	1199 Journey to Antarctic Literacy: Transforming Scientific Papers in Storybooks for Effective Climate Change Communication	
14:35-14:45	Camila Neder	701 Once Upon a Time, in the cold southern Antarctic continent... a scientific fairy tale was written for ocean literacy	
14:45-14:55	Reiner Canales	1473 The importance of books in your language in Antarctic education	
14:55-15:05	Narelle van der Wel	1468 Improving Access to Climate Science Training: The World Climate Research Programme (WCRP) Academy and Climate and Cryosphere (CliC)	
15:05-15:15	Sandra Freiberger-Afonso	143 Pedagogical evaluation of the 3D simulation Antarctica: Witness of Time in the context of scientific education in Brazilian schools	
<b>Session 23 : Sub-Antarctic Islands – Sentinels of Change (Marion Island: Sentinel of change in the Sub-Antarctic)</b>			<b>Room: Neodraco (UFRO)</b>
14:05-14:15	Daniela Monsanto	1132 Foregrounding geodiversity in landscape ecology studies: insights from the sub-Antarctic	
14:15-14:25	Shilpa Parbhu	1174 Detecting signals of adaptive selection of an invasive versus a native springtail on sub-Antarctic Marion Island	
14:25-14:35	Ian Meiklejohn	1152 Characterising Von Kármán Vortex Streets over the Sub-Antarctic Prince Edward Islands	
14:35-14:45	Abuyiselwe Athandile Nguna	860 Long term monitoring of aeolian processes, features and saltation thresholds on sub-Antarctic Marion Island.	
14:45-14:55	Elizabeth Rudolph	129 Glacier chronologies for Marine Isotopic Stages 3 and 2 from the southern Indian Ocean: evidence from 36Cl CRE dating on the Kerguelen and Marion islands	
14:55-15:05	Werner Nel	81 Twenty-thousand-year lag between deglaciation and peat formation on sub-Antarctic Marion Island attributed to climate and sea level change	
15:05-15:15	Keltoum Boumedjane	1471 Monitoring Highly Pathogenic Avian Influenza: what can be considered as a “sentinel” for infectious diseases in the sub-Antarctic islands?	
<b>Session 31: Antarctic Tourism: Search and Research for a Sustainable Future? (resilience and evolution of the industry)</b>			<b>Room: Desmarestia (UFRO)</b>
14:05-14:15	Catalina Ovando	210 Citizen Science as a Catalyst for Sustainable Antarctic Tourism: Insights from Antarctica21's Onboard Program	
14:15-14:25	Elizabeth Leane	835 Mediating Antarctica: how tour operators support and influence tourists' relationship with the far south	
14:25-14:35	Elizabeth Nyman	800 Shackleton and Scott: Cultural Heritage Sites in Antarctic Polar Cruise Tourism	
14:35-14:45	Machiel Lamers (on behalf of Daniela Cajiao)	377 Wild Wild South Shetlands: The Case of King George Island, a new tourism hub?	
<b>Session 14: Sub-ice geology, sub-glacial hydrology and Antarctic Ice Sheet stability</b>			<b>Room: Cryolophosaurus (UFRO)</b>
14:05-14:15	Tobias Stål	761 A refined geothermal heat flow map of Antarctica from multivariate observables for application to ice sheet modelling	
14:15-14:25	Prof. Xueyuan Tang	855 Basal Roughness of the Princess Elizabeth Land, East Antarctica: Relationship with Subglacial Geomorphological Features and Ice Flo	
14:25-14:35	Fausto Ferraccioli	1144 A new estimate of Antarctic geothermal heat flux heterogeneity derived from aeromagnetic data	
14:35-14:45	Renata Constantino	1526 Exploration of sub-glacial geology in the Antarctic continent from gravity regression analysis	
14:45-14:55	Fiona Clerc	1483 Subglacial groundwater flow modulates the geothermal heat flux into the Antarctic Ice Sheet	
14:55-15:05	Lauren Miller	1229 expressions and importance of Antarctic grounding line pinning	
<b>Session 17: Antarctic and subantarctic permafrost detection</b>			<b>Room: Cryobacterium (UFRO)</b>
14:05-14:15	Ian Meiklejohn	1181 Permafrost and Active Layer Monitoring in the Ahlmanryggen and Jutulsessen regions of Western Dronning Maud Land.	
14:15-14:25	Michael Gooseff	1001 McMurdo Dry Valleys Stream Hydrologic Response to Annual Climate Variability	
14:25-14:35	Andrew Klein	804 Destruction of Sand-Wedge Polygons in Antarctica: a method to track the physical footprint of human activities	
14:35-14:45	Francesco Grifoni	336 Anthropogenic disturbance to the Antarctic permafrost: a case study of an airstrip construction	
14:45-14:55	Stefano Ponti	391 Relations between soils, vegetation types and active layer thickness at Signy Island	
14:55-15:05	Gary Wilson	574 Origin of increasing soil gas carbon emissions in Taylor Valley, Antarctica	
15:05-15:15	Catarina Louro	235 Assessing Availability and Potential Toxicity of Trace-element Contaminants in Permafrost Soils from two Antarctic Ecosystems (Deception and Livingston Islands)	
<b>Monday, 19th August</b>			
<b>Block 3: 16:00-17:30</b>			
<b>Session 3: Polar climate change, variability and teleconnections in the past, present, and future (Paleoclimate / Physical oceanography)</b>			<b>Room: Euphausia (Enjoy)</b>

<i>Note: The presentations in this block are 9 minutes of oral presentation + 2 minutes of questions</i>					
16:05-16:15	Hugues Goosse	41	Centennial variability of the southern hemisphere westerly winds and of the southern annular mode over the past millennia		
16:15-16:25	Dieter Tetzner	772	New ice core proxy for reconstructing past wind variability in the Pacific sector of the Southern Hemisphere Westerly Wind belt		
16:25-16:35	Sharmila Muhammed	851	The Indian Summer Monsoon - Southern Ocean teleconnection during glacial-interglacial periods		
16:35-16:45	Béatrice Desy	1233	Recurrence analysis of Antarctic ice core records at multiple temporal scales		
16:45-16:55	Manish Tiwari	660	Does Antarctic and Southern Ocean Temperature Affect Indian Monsoon - A Paleoclimatic Perspective		
16:55-17:05	Venisse Schlosser	1539	Zonal symmetry of the SAM and its impacts on sea level in the South Atlantic Ocean		
17:05-17:15	Girija Kalyani	85	Links between large-scale circulation variability and coastal polynya dynamics in the Ross Sea sector during Winter		
<b>Workshop 12: Highly Pathogenicity Avian Influenza in Antarctica: Lessons Learnt and Preparations for 2024-25 Season</b>				<b>Room: Pygocelis (Enjoy)</b>	
<b>Session 27: Microbial Biogeography of Antarctica and Southern Ocean</b>				<b>Room: Colobanthus (Enjoy)</b>	
16:05-16:15	Rebeca Lizarraga	1069	Life in the Afterlife: Exploring Shallow Chemosynthetic Microbial Communities on Whale Carcasses in Admiralty Bay, King George Island.		
16:15-16:25	Phoebe Chapman	1278	Investigating the dynamics of kelp-associated bacterial microbiomes in Antarctic and subantarctic environments		
16:25-16:35	Carolina Merino	1301	Evidence of amino acids preference by iron(III)-reducing bacterial communities on iron oxide minerals after the glacier retreated in sub-Antarctic areas		
16:35-16:45	Ivan Alekseev	172	Soil microbial communities in Larsemann Hills, East Antarctica: environmental controls and human-induced effects		
16:45-16:55	Guillaume Schwob	1206	Deciphering microbial biogeography and diversification in the Southern Ocean: Key insights from marine metaorganisms.		
16:55-17:05	Mireia Mestre	1091	Latitudinal Gradients and Vertical Connectivity in the Scotia Sea Microbiome		
17:05-17:15	Pedro Murúa	1514	Toward an Antarctic phycopathology: description of wild pathosystems associated to Antarctic macroalgae from South Shetland islands.		
<b>Session 19 : Southern ocean phyto and zooplankton (Phytoplankton)</b>				<b>Room: Usnea (Enjoy)</b>	
16:05-16:15	Sandy Thomalla	869	Trends in Southern Ocean phytoplankton iron stress, primary production and bloom phenology		
16:15-16:25	Wee Cheah	854	Spatial and temporal variability of phytoplankton composition and environmental parameters in the Pacific sector of the Southern Ocean		
16:25-16:35	Discussion & questions				
16:35-16:45	Sarat Chandra Tripathy	78	Short-term time-series observations of phytoplankton light-absorption and productivity in Prydz Bay, coastal Antarctica		
16:45-16:55	Allison Cusick	480	Distinct spatio-temporal patterns in microeukaryote phytoplankton communities revealed along the nearshore Antarctic Peninsula		
16:55-17:05	Andrea Corredor Acosta	803	Long-term variability of phytoplankton community reveals a tipping point towards high primary production by the nano-sized fraction in Marian Cove, West Antarctic Peninsula		
17:05-17:15	Pedro Souza	450	Phytoplankton as the crucial driver modulating CO2 flux dynamics in different subregions of the Northern Antarctic Peninsula		
<b>Workshop 11: How to support the science and monitoring needs of MPA in the Southern Ocean</b>				<b>Room: Glyponothus (Enjoy)</b>	
<b>Session 40: Sharing science data FAIRly to support interdisciplinary research collaborations</b>				<b>Room: Arctocephalus (Enjoy)</b>	
16:05-16:15	Liang, Xi	151	Southern Ocean Ice Prediction system version 1.0 (SOIPS v1.0): Aiming at support ship navigation in the Antarctic sea ice zone		
16:15-16:25	Nitsche, Frank	471	Sharing and accessing Antarctic Data through the US Antarctic Program Data Center (USAP-DC)		
16:25-16:35	Plasman, Charlie	889	Mapping Southern Wildlife: The SCAR DistAnt Repository		
16:35-16:45	Van de Putte, Anton	902	A data system for the Southern Ocean		
16:45-16:55	Adjou, Mohamed	1034	Advancing oceanographic biogeochemical data management towards FAIR compliance with AI potential		
16:55-17:05	Matsuoka, Kenichi	1140	Quantarctica version 4		
17:05-17:15	Kanao, Masaki	14	Sharing the data and metadata under FAIR principle by the National Antarctic Data Center in Japan		
<b>Session 39: Emerging Frontiers in Antarctic Observation Science: Remote Sensing, Artificial Intelligence and Machine Learning</b>				<b>Room: Nothofagus (Enjoy)</b>	
16:05-16:15	Peter Fretwell	251	Wildlife from space: state-of-the-art AI approaches to identifying and counting polar wildlife in remotely sensed imagery.		
16:15-16:25	Shridhar Jawak	428	High-resolution Mapping of Blue Ice on the White Continent		
16:25-16:35	Robert Bialik	663	Application of the YOLOv6 model to automatically count Antarctic shag nests on aerial images		
16:35-16:45	Tong Hao	1098	Revisit Gamburtsev subglacial mountains in East Antarctica: a new perspective for machine learning-based automatic prediction of subglacial water bodies		

16:45-16:55	Danilo Astorga	1347	License to krill: an AI biogeophysical model to forecast krill in the Antarctic Peninsula		
16:55-17:05	Eric Sokol	585	Remotely sensing a decade of change in the McMurdo Dry Valleys: Mapping spatial and temporal trends in ecosystem properties in Fryxell Basin		
<b>Session 16 : Permafrost and active layer in the Andes Cordillera-Antarctica continuum: progress and challenges</b>				<b>Room: Macronectes (UFRO)</b>	
16:05-16:15	Adrián Silva Busso	212	Active layer thermal profile differences between syngenetic and epigenetic permafrost, Cape Welchness, Dudgee Island, Antarctica		
16:15-16:25	Danilo Mello	270	Antarctica soils works as a sink of atmospheric carbon in global warming scenario		
16:25-16:35	Zahid Majeed	372	Evolution of Rock Glaciers in Jhelum basin, J&K, India		
16:35-16:45	Roberto Michel	423	Monitoring Climate Impact on Permafrost in the Antarctic Peninsula: A 13-Year Study		
16:45-16:55	Rafael Siqueira	429	Analyzing Soil Thermal Dynamics in Patterned Ground Antarctic Permafrost: Keller Peninsula		
16:55-17:05	Eneko Beriain	941	Rock glaciers in the andes of Chile and Argentina: a non-permafrost case		
17:05-17:15	Gonçalo Vieira	1602	Geomorphological characteristics and surface velocities of Hurd rockglacier (Livingston Island, Antarctic Peninsula)		
<b>Workshop 19: Using matlab and R to detect regime shifts in Antarctica</b>				<b>Room: Neodraco (UFRO)</b>	
<b>Session 36: Ethics and Politics in Antarctica: Nature, Animals and Conservation</b>				<b>Room: Desmarestia (UFRO)</b>	
16:05-16:15	Gabriela Roldán	1390	A conversation starter on bird flu and the privilege of being human in Antarctica		
16:15-16:25	Keltoum Boumedjane	1550	What are the ethical implications of opportunistic epidemiological surveillance in the tourism sector?		
16:25-16:35	Cristian Lorenzo	1449	Unraveling Antarctic Geopolitics: Who Shapes the Narrative on Conservation?		
16:35-16:45	Tamara Contador	1568	Underwater with a hand lens: ecological sciences and environmental ethics to value freshwater biodiversity in sub-Antarctic and Antarctic ecosystems		
16:45-16:55	Alejandra Mancilla	58	The unique challenges and opportunities of recognizing the Rights of Antarctica		
<b>Monday, 19th August</b>					
17:30-19:30			Poster Session A	<b>Room: Multicancha (Enjoy)</b>	
from 19:30			Icebreaker	<b>Room: Ballroom</b>	
<b>Tuesday, 20th August</b>					
08:30-09:15			Plenary Lecture: Dr Victoria Nuviala "Mapping Memories. An Architectural Biography of Antarctica"	<b>Room: Ballroom</b>	
09:30-11:00			Mini-Symposium: A kaleidoscopic look at Antarctica's geological past: A gathering to understand the bio- and geological evolution of the Austral-Antarctic environments	<b>Room: Ballroom</b>	
<b>Tuesday, 20th August</b>					
<b>Block 1: 11:30-13:00</b>					
<b>Session 3: Polar climate change, variability and teleconnections in the past, present, and future (Environmental Science )</b>				<b>Room: Euphausia (Enjoy)</b>	
<i>Note: The presentations in this block are 9 minutes of oral presentation + 2 minutes of questions</i>					
11:32-11:43	Yaowen Zheng	497	Antarctic ice shelves at risk of collapse by mid-century		
11:43-11:54	Jens Meyerjürgens	1221	Glacier meltwater transport and pathways along the Beagle Channel		
11:54-12:05	Marcelo Marambio	1182	Ice Lens Formation in Antarctic ice shelves		
12:05-12:16	Alexey Ekaykin	1451	Snow isotopic composition at Vostok is dominated by summer temperature due to post-depositional modification		
12:16-12:27	Francisco Cereceda	1507	Aerosol characterization at the Unión Glacier, Antarctica: Particulate matter concentration and size distribution		
12:27-12:38	Eija Asmi	1018	Fine mode aerosols in the Antarctic Peninsula: inter-annual variability and extremes		
<b>Session 41: Biodiversity and Conservation (Marine Protected Areas)</b>				<b>Room: Pygocelis (Enjoy)</b>	
11:35-11:45	Cassandra Brooks	366	CCAMLR's progress toward a network of Southern Ocean Marine Protected Areas		
11:45-11:55	Oliver Hogg	170	Assessing efficacy in MPA design decisions using a bespoke and interactive fisheries management tool		
11:55-12:05	Renato Borrás-Chavez	1230	A review on Pinnipeds' foraging ecology and their overlap with fisheries in the Western Antarctic Peninsula and Scotia Arc		
12:05-12:15	Michelle LaRue	583	Resurgence of anthropogenic influence in food web dynamics of the Ross Sea		
12:15-12:25	Andy Lowther	501	Monitoring for impacts: is CCAMLRs Ecosystem Monitoring Program fit-for-purpose?		

<b>Session 10 : Antarctica's evolution through supercontinent cycles to south pole sojourn</b>			<b>Room: Colobanthus (Enjoy)</b>
11:35-11:45	Mareen Loesing	586 Geologic Controls on Ice Sheet Dynamics in Wilkes Land: A Multi-Scale Analysis	
11:45-11:55	Jesus Galindo-Zaldivar	682 Seismic activity and hazard in Antarctica	
11:55-12:05	Karlos G. D. Kochhann	725 Unravelling Cenozoic climate evolution of the Antarctic Peninsula	
12:05-12:15	Liang Gao	913 Impacts of the opening of the Drake Passage on the Cenozoic global change	
<b>Session 2: Polar meteorology and atmospheric processes: weather, water cycle, snow, clouds, radiation, gravity waves</b>			<b>Room: Usnea (Enjoy)</b>
11:35-11:45	Biao Tian	110 Multi-year variation of near-surface ozone at Zhongshan Station, Antarctica	
11:45-11:55	Newton Magalhaes	346 Deconvoluting aerosol black carbon footprint in the Northern Antarctic Peninsula	
11:55-12:05	Qinggang Gao	618 Climate controls on water isotopes in Antarctic precipitation - insights from innovative water tracers in ECHAM6	
12:05-12:15	Huiling Zou	757 Plausible Last Interglacial Antarctic ice sheet changes do not fully explain Antarctic ice core water isotope records	
12:15-12:25	Mathieu Casado	843 Spatial and temporal variations of snow and vapour isotopic composition across the East Antarctic Plateau	
<b>Session 30: Human biology &amp; medicine: health, wellbeing and living in Antarctica (Operational Medicine)</b>			<b>Room: Glyponothus (Enjoy)</b>
11:35-11:45	Matthew Warner	623 Major Haemorrhage and Tranexamic acid in the Polar environment- Best Practice vs Deliverability: Intravenous vs Oral Administration	
11:45-11:55	Jeff Ayton	907 Overview of the COVID-19 Pandemic Planning and Response in the Australian Antarctic Program and lessons for future human infectious disease risk planning	
11:55-12:05	Giichiro Ohno	894 The effectiveness of health assessment for selecting participants of Japanese Antarctic Research Expedition (JARE)	
12:05-12:15	Eojin Yi	1011 Enhancing Telemedical Support in Antarctica Using Extended Reality Technology	
12:15-12:25	Gabriel Henrique Albuquerque Lins	1159 Antarctic Telehealth: Overcoming Isolation for Mental Health	
12:25-12:35	Michele Devlin	1242 From the Bottom Up: Enhancing Educational Partnerships between Antarctic Emergency Medical Providers and Arctic Security Professionals	
12:35-12:45	Sandra Cortes	1584 Clinical health status and biomonitoring of pollutants in adults living in Antarctica: a novel study	
<b>Session 33: Antarctic governance, science and law at the international and domestic level (International and domestic Antarctic law)</b>			<b>Room: Arctocephalus (Enjoy)</b>
11:35-11:45	Cristian Arroyo	1478 Application of the Antarctic Treaty System and its related agreements in Domestic Law: A Case Study	
11:45-11:55	Luis Valentin Ferrada	1453 Antarctic Law: A concept seeking for a comprehensive definition	
11:55-12:05	Paola Barros-Delben	1070 Legal aspects related to harassment and criminal conduct in Antarctica	
12:05-12:15	María Jesús Maibe	350 Prevention, control and management of H5N1 avian influenza in Antarctica: its regulation under the Antarctic Treaty System and comparative domestic law	
12:15-12:25	Paola Barros Delben (presented on behalf of Luis Mathias)	1517 International cooperation on the Antarctic Continent: an approximation of criminal legislation against sexual harassment for the protection of scientific freedom at work.	
<b>Session 6 : Interactions between ice shelves and ocean: current state and future projections</b>			<b>Room: Nothofagus (Enjoy)</b>
11:35-11:45	Sharon Stammerjohn	1446 Sea Ice as Modulator of Ocean-Ice Shelf Interactions	
11:45-11:55	Britney Schmidt	1227 Ice on the Move: What observing the underside of Antarctica's ice shelves now can tell us about future sea level rise	
11:55-12:05	Emma MacKie	673 An extreme value theory perspective on large iceberg calving events	
12:05-12:15	Channing Prend	584 Remote pathways of ocean heat transport toward the Antarctic Ice Sheet	
12:15-12:25	Weifeng Zhang	50 Ice shelf-polynya interaction on Antarctic coast and a next generation observing platform	
12:25-12:35	Marisa Montoya	481 Assessing the risk of tipping cascades through the strength of the bipolar seesaw	
12:35-12:45	Bertie Miles	424 Progressive unanchoring of Antarctic ice shelves since 1973	
<b>Session 24: Environmental factors driving diversity, composition and ecology of fossil and living Antarctic communities ( Life on land: photosynthetic organisms)</b>			<b>Room: Macronectes (UFRO)</b>



11:35-11:45	Ana Aramburu Cuberta	430	Life on Antarctic nunataks: a multidisciplinary approach			
11:45-11:55	Krystall Randall	794	Micro-topography matters for mosses: centimetre-scale climates as drivers of change			
11:55-12:05	Gustavo Zuniga	943	Responses of Sanionia uncinata to climate change in Maritime Antarctica: soil moisture as a determinant			
12:05-12:15	Laura Bertini	1052	Frosty resilience: unveiling the silent battle of Antarctic plants in response to extreme environmental challenges			
12:15-12:25	Leon Bravo	1272	Ecophysiological responses of Antarctic vascular plants to in situ and controlled laboratory warming conditions			
<b>Session 34: Antarctica and the arts</b>				<b>Room: Neodraco (UFRO)</b>		
11:35-11:45	Cartografia Sonora	165	Unveiling Unattended Narratives: Chilean Artists' Representation of Antarctica Beyond Colonial Narratives			
11:45-11:55	Pablo Wainschenker	1376	South American Antarctic Utopias			
11:55-12:05	Jean Brundrit	600	Making connections: piloting an Antarctic artists and writers program in South Africa			
12:05-12:15	Adrienne van Eeden-Wharton	1406	Water/Log (extracts)			
12:15-12:25	Elizabeth Leane	796	Creative Antarctica: Australian Artists and Writers in the Far South			
12:25-12:35	Adele Jackson (presented on behalf of Patrick Shepherd)	476	Artists in Antarctica: Curating and Celebrating Artistic Creativity in a Frozen Land			
<b>Session 25: Terrestrial and marine bioinvasions in Antarctica and the Southern Ocean</b>				<b>Room: Desmarestia (UFRO)</b>		
11:35-11:45	Carla Salinas	550	Assessing Antarctic Marine Biodiversity and Invasive Species Using eDNA Metabarcoding			
11:45-11:55	Steven Chown	359	Biodiversity informatics for Antarctic environmental conservation			
11:55-12:05	Kari Saikkonen	521	Reduced resistance to invasive herbivores in Antarctic Deschampsia antarctica			
12:05-12:15	Hélène Dubrasquet	446	Marine non-indigenous species arrival in Antarctica: investigating propagule pressure load and dispersion patterns associated to maritime traffic and seaweed rafts through modelisation approaches			
12:15-12:25	Claudio Gonzalez Webar	1095	Evidence of trans-APF long-distance dispersal in a nearshore marine invertebrate in the Southern Ocean			
12:25-12:35	Siobhan Vye	1141	Understanding the risk of marine invasions in the Sub-Antarctic through vessel biofouling			
<b>Session 44: Cutting-edge Antarctic research</b>				<b>Room: Cryolophosaurus (UFRO)</b>		
11:35-11:45	Channing Prend (on behalf of Alvaro Scardilli)	188	The CLIVAR/CliC/SCAR Southern Ocean Region Panel: present and future actions			
11:45-11:55	Kristin Wilson	80	Gains and impacts, or a balance? Exploring spatiotemporal patterns linking scientific and environmental indicators in the greater McMurdo Dry Valleys			
11:55-12:05	Nerilie Abram	417	The Denman Terrestrial Campaign: an intensive, interdisciplinary science initiative to study a region of concern			
12:05-12:15	Susie Pottier	106	"Monographs Are Outdated": Bridging Past and Future Through the Exploration of New Methodological Frontiers and Anthropological Paradigm Shifts in Antarctica			
12:15-12:25	Vicki Heinrich (presented by Daniela Liggett)	915	Improving Weather Forecasting Models and Environmental Services in Antarctic and Southern Ocean Regions			
12:25-12:35	Envirolapse (Lee Stoermer)		Introduction to a cutting-edge environmental research and monitoring technology			
12:35-13:00	Plenary Discussion		Cutting-edge research frontiers			
<b>Tuesday, 20th August</b>						
<b>Block 2: 14:00-15:30</b>						
<b>Workshop 13: Evaluating the impact of unprecedented low sea ice concentration on Antarctic marine ecosystems</b>				<b>Room: Euphausia (Enjoy)</b>		
<b>Session 41: Biodiversity and Conservation (Understanding Antarctic biodiversity and impacts)</b>				<b>Room: Pygocelis (Enjoy)</b>		
14:05-14:15	Natasha Gardiner	67	Measuring the performance of Antarctic Treaty decision-making			
14:15-14:25	Yu-Fai Leung	1013	Evaluating microsleep opportunities for penguins around tourist activities: An exploration with behavior observation data			
14:25-14:35	Eduardo Amorim (on behalf of Paulo Camara)	781	Extinction risk assessment for the Antarctic Flora: The Antarctic plant red list initiative			
14:35-14:45	Hanna Yevchun	1194	Distribution of some locally rare moss species in the Argentine Islands - Kyiv Peninsula region, western Antarctic Peninsula			
14:45-14:55	Leticia Costa	162	Assessing distribution and sources of regulated versus emerging contaminants in Admiralty Bay, Antarctic Peninsula			

14:55-15:05	Sergey Kakareka	124	Retrospective modelling of air impacts in Antarctica: a case study Larsemann Hills				
<b>Session 10 : Antarctica's evolution through supercontinent cycles to south pole sojourn</b>							<b>Room: Colobanthus (Enjoy)</b>
14:05-14:15	Lu Li	492	Antarctic tectonic boundaries revealed by multiscale lithospheric heterogeneity				
14:15-14:25	Monika A. Kusiak	406	Remnants of Eoarchean crust in the Napier Complex, East Antarctica				
14:25-14:35	Nikita Borovkov	872	Tectonic Evolution of Albany-Fraser – Wilkes Land orogenic belt during the Mesoproterozoic stage of Rodinia growth				
14:35-14:45	Geoffrey H. Grantham	928	Sri Lanka - Correlation between Sri Lanka, N. Mozambique and Antarctica in Gondwana				
14:45-14:55	Fausto Ferraccioli	1288	Cryptic paths of Gondwana-forming collisional orogenic belts revealed in East Antarctica				
14:55-15:05	Ian Dalziel	1219	The Ellsworth Mountains in the reconstruction of Pangea, Pannotia, and Rodinia				
<b>Session 2: Polar meteorology and atmospheric processes: weather, water cycle, snow, clouds, radiation, gravity waves</b>							<b>Room: Usnea (Enjoy)</b>
14:05-14:15	Lynwill Martin	886	Mercury over Southern Africa and the Southern Ocean				
14:15-14:25	Francisco Lang	1254	On the relationship between mesoscale cellular convection and meteorological forcing over the Southern Ocean				
14:25-14:35	Marcelo Santini	1273	Turbulent fluxes in the austral summers of 2020/2021 and 2021/2022 on Penguin Island, Antarctica.				
14:35-14:45	Claudio Durán	1503	Vertical profiling radar observations of precipitation dynamics at King Sejong station, Antarctic Peninsula.				
14:45-14:55	Francisco Cereceda	1516	Black Carbon Deposition, Snow Albedo, and Radiative Forcing in the Antarctic: Insights from Two Consecutive Field Campaigns in Different Locations				
14:55-15:05	René Darío Garreaud	946	Cooling the coldest continent: The 4 December 2021 Total Solar Eclipse over Antarctica				
15:05-15:15	Matthew Boyer	304	Penguins and particles: an important source of climate-relevant aerosol in Antarctica				
<b>Session 30: Human biology &amp; medicine: health, wellbeing and living in Antarctica (Operational Medicine)</b>							<b>Room: Glyponothus (Enjoy)</b>
14:05-14:15	Aziz Khan	39	Psychological Wellbeing, Emotion Regulation, and Resilience of Indian expeditioners in Antarctica: Longitudinal Investigation				
14:15-14:25	Susie Pottier	105	Anthropology's Lens on Health and Well-being in Isolated and Confined Extreme Environments: Insights from Antarctica and Beyond				
14:25-14:35	Nathalie Pattyn	192	Sleep in Antarctica: a tale of two cities and four seasons.				
14:35-14:45	Paola Barros-Delben	1143	Motivational aspects of wintering in polar stations				
14:45-14:55	Thiago Mendes	1303	A role for exercising in Antarctica: a report of Brazilian Human biology research				
<b>Session 33: Antarctic governance, science and law at the international and domestic level (Antarctic Treaty governance and discourse)</b>							<b>Room: Arctocephalus (Enjoy)</b>
14:05-14:15	Sutherland Condorelli, Giovannina Andrea	1012	Manifestations of Political Ecology in Antarctic Environmental Discourse				
14:15-14:25	Shibata, Akiho	478	When Science Cannot Contain Politics, the Law Should Prevail! Recent conundrum regarding Antarctic Treaty Consultative Party Status				
14:25-14:35	Kelleher, Cole	1369	International Principles and Procedures for Antarctic Place Names				
14:35-14:45	Barros, Ana Flavia Granja	169	From a Frozen Continent to a Hot Diplomatic Agenda. The Changing Status of Antarctica in Global Governance Talks				
<b>Session 6 : Interactions between ice shelves and ocean: current state and future projections</b>							<b>Room: Nothofagus (Enjoy)</b>
14:05-14:15	Clare Eayrs	657	Integrated Sub-Ice Shelf Observations Beneath Dotson Ice Shelf, West Antarctica				
14:15-14:25	Jamin Greenbaum	1264	Meltwater-driven buoyant upwelling revealed by expendable ocean sensors deployed by helicopter throughout the Thwaites Glacier Tongue, West Antarctica				
14:25-14:35	Alena Malyarenko	201	The Ross Ice Shelf cavity in the new coupled model Polar-SKRIPsv2				
14:35-14:45	Pierpaolo Falco	93	Study of the year-round thermohaline evolution along and beneath the Ross Ice Shelf using Argo floats				
14:45-14:55	Sarah Thompson	849	Investigating the Stability of the Denman Shackleton Ice Shelf System, East Antarctica				
14:55-15:05	Laura Herraiz Borreguero	1358	Recent regime transition of East Antarctic shelf seas				
15:05-15:15	Anirudha Mahagaonkar	1036	Foehn winds alter surface dynamics on several ice shelves in Dronning Maud Land				
<b>Session 24: Environmental factors driving diversity, composition and ecology of fossil and living Antarctic communities ( Life on land: microorganisms and animals)</b>							<b>Room: Macronectes (UFRO)</b>
14:05-14:15	Patricia Valdespino	260	Are microbes awake during the polar night? An integrated metabarcoding, metagenomics, infrared imaging study				

14:15-14:25	Khum Thapa-Magar	709	Characterizing the temporal variability in the spatial distribution of suitable habitat for microbial mats in Fryxell basin in the McMurdo Dry Valleys, Antarctica			
14:25-14:35	Kattia Núñez-Montero	1289	Assessing long-term warming impacts on Antarctic soil microbial communities and exploring the microbiome transplantation for ecological restoration.			
14:35-14:45	Tyler Mackey	1202	A long-lived, proglacial refugium at Lake Joyce, Antarctica			
14:45-14:55	Byron Adams	1097	Antarctic nematode genetic structure reflects historical climate disturbances and geomorphic barriers			
14:55-15:05	Tamara Contador	1209	Revealing climate-driven adaptations, phylogeography, population structure, and phenological dynamics of <i>Parochlus steinenii</i> , the winged Antarctic midge in Antarctic and Sub-Antarctic ecosystems			
15:05-15:15	Fabiana Canini	621	Investigating Environmental Influences on Soil Microbial and Animal Diversity in Victoria Land			
<b>Session 34: Antarctica and the arts</b>					<b>Room: Neodraco (UFRO)</b>	
14:05-14:15	Chinmay Kumar Patra	24	Cultural Engagement in the Frozen Frontier: Exploring Artistic and Cultural Activities in the Indian Scientific Expedition at Bharati Research Station			
14:15-14:25	Delanie Linden	1557	The Colors of the Astrolabe: Picturing the Spectral Blues of Glaciers during the French Exploration of Antarctica, 1837-1840			
14:25-14:35	Cartografia Sonora	63	Rethinking Antarctica: Artistic Interventions and Ontological Explorations			
14:35-14:45	Charne Lavery	726	Antarctica and Africa: Extractive Past, Climate Futures			
14:45-14:55	Pablo Wainschenker	1370	The representation of South Americans in Anglophone Antarctic fiction			
14:55-15:05	Vandana Singh	361	On a Rock and in a Hard Place: Women, Science and Extreme Environments			
<b>Session 25: Terrestrial and marine bioinvasions in Antarctica and the Southern Ocean</b>					<b>Room: Desmarestia (UFRO)</b>	
14:05-14:15	Hugo Benítez	94	15 Years' Presence of the Non-Native Fly <i>Trichocera maculipennis</i> in Antarctica: Current Insights and Future Prospects			
14:15-14:25	Jorge Navarro	1053	How close are the Magellan mussels to invade the Southern Ocean under current conditions and projected warming scenarios?			
14:25-14:35	Peter Convey	729	An invading ecosystem engineer, the potential impacts of the fly <i>Eretmoptera murphyi</i> in the maritime Antarctic			
14:35-14:45	Zambra Lopez	1189	Revealing unnoticed passengers: Monitoring antarctic trajectory ship hulls as species transports and their detection by eDNA			
<b>Session 44: Cutting-edge Antarctic research</b>					<b>Room: Cryolophosaurus (UFRO)</b>	
14:05-14:15	Brent Minchew	1126	Physical processes we need to understand to envision responsible sea-level rise interventions			
14:15-14:25	Masaki Kanao	13	A new proxy for detection surface environmental variations by using infrasound waves in the coastal area of the Lützow-Holm Bay, East Antarctica			
14:25-14:35	Jilda Caccavo	750	How Climate Genomics can help predict distribution shifts in Southern Ocean species exposed to environmental change			
14:35-14:45	Plenary Discussion & session wrap up					
<b>Workshop 25: Quantarctica version 4</b>					<b>Room: Asteromphalus (UFRO)</b>	
<b>Tuesday, 20th August</b>						
<b>Block 3: 16:00-17:30</b>						
<b>Workshop 3: Participating in the UN Decade of Ocean Science - The Decade Collaborative Centre for the Southern Ocean Region</b>					<b>Room: Euphausia (Enjoy)</b>	
<b>Workshop 6: Iberoamerican APECS meeting</b>					<b>Room: Pygocelis (Enjoy)</b>	
<b>Workshop 17: POLARIN: Polar Research Infrastructure Workshop</b>					<b>Room: Colobanthus (Enjoy)</b>	
<b>Workshop 14: Towards a coordinated research network to monitor the Ross Sea region marine protected area</b>					<b>Room: Usnea (Enjoy)</b>	
<b>Session 30: Human biology &amp; medicine: health, wellbeing and living in Antarctica (Antarctica as an analogue to spaceflight)</b>					<b>Room: Glyponothus (Enjoy)</b>	
16:05-16:15	Alexis Gomez	797	Research Study for the Design of an Analog Space Mission on Operational Safety and Adaptability to Extreme Environments in Antarctica.			
16:15-16:25	Jeff Ayton	893	Australian Antarctic Space Analog- a new extreme environment medicine research collaboration			

16:25-16:35	Eojin Yi	1178	Antarctic Space Analogue Based on Health and Medical Issues in the Global Exploration Roadmap by the the International Space Exploration Coordination Group			
16:35-16:45	Jonathon Lowe	1290	Antarctica as a Space Analogue - Utilising Opportunities in Remote Practice to Inform in the Space Domain			
16:45-16:55			Antarctica as a testbed for space missions: NASA's perspective			
16:55-17:05			Piloting skill decay on the way to Mars: the SIMSKILL experiment in Antarctica			
<b>Session 8: Polar extreme events and their physical drivers</b>				<b>Room: Arctocephalus (Enjoy)</b>		
16:05-16:15	Hua Lu	117	Extreme warm events in the south orkney islands, southernocean: Compounding influence of atmospheric rivers and föhn conditions			
16:15-16:25	Deni Boz	274	Extreme compound events triggered by an atmospheric river in the Antarctic peninsula during mid-austral winter 2023: Observational evidence and climatic implications			
16:25-16:35	Carla Puigdomenech	1022	The role of a föhn event in glacier melt rates			
16:35-16:45	Irina Gorodetskaya	1592	Extreme warm events and snowfall to rain transition over the antarctic peninsula during atmospheric rivers			
16:45-16:55	Alizée De Groodt	1554	Drivers and characteristics of white capping during atmospheric river events affecting the Antarctic Peninsula			
16:55-17:05	Lejiang Yu	859	Features of extreme precipitation at progress station, Antarctica			
17:05-17:15	Tom Bracegirdle	435	Large ensemble simulations of Antarctic extreme seasons under 20th and 21st century climate change			
<b>Session 11: Marine, terrestrial, and environmental perspectives from the Antarctic Ice Sheet</b>				<b>Room: Nothofagus (Enjoy)</b>		
16:05-16:15	Nicholas Golledge	73	State dependent ice-sheet resonance under Cenozoic and future climates			
16:15-16:25	Mike Weber	166	Increasing synchronization of Antarctic and global climate since the Mid Pleistocene Transition			
16:25-16:35	Anish Warrior	1440	A mineral magnetic approach to reconstruct the marine-lacustrine transition phase from an East Antarctica			
16:35-16:45	Vikram Goel	852	Coastal ice core site identified in Dronning Maud Land, Antarctica: Potential for high-resolution climate reconstructions back to LGM			
16:45-16:55	Nancy Bertler	262	Early onset of the Antarctic Cold Reversal as captured in the RICE ice core			
16:55-17:05	Gautami Samui	984	Biogeochemical influence on glacier meltwater composition during summer in coastal Antarctica			
17:05-17:15	John Priscu	1562	Geobiology of Antarctic Subglacial Environments: An historical perspective			
<b>Session 24: Environmental factors driving diversity, composition and ecology of fossil and living Antarctic communities ( Life in the past: paleontological communities)</b>				<b>Room: Macronectes (UFRO)</b>		
16:05-16:15	Jason Coenen	1348	Siliceous microfossil response to the Cretaceous-Paleogene extinction event: the influence of volcanism and meteorite impact on the Seymour Island biostratigraphic record			
16:15-16:25	Marcelo Leppe	1574	Glacioeustacy versus plate tectonics: testing old paradigms about the South America-Antarctic-Oceania connection during the Cretaceous in the light of old and new palaeontological findings			
16:25-16:35	Tamaris Morilla	1534	Ecological parameters of bivalves from the La Meseta Formation (Seymour Island, Antarctica): response to environmental changes in the Eocene			
16:35-16:45	Rowan Whittle	538	The earliest glacial communities from the Cenozoic of Antarctica			
16:45-16:55	Carolina Acosta Hospitaleche	1252	A new Eocene skeleton from Seymour Island reshapes our understanding of fossil penguin anatomy			
16:55-17:05	Javier N. Gelfo	1279	Dental specializations of Antarctodon sobrali (Mammalia, Astrapotheria) from the Eocene of West Antarctica: proxies of paleoenvironmental and phylogenetic inferences			
<b>Session 34: Antarctica and the arts</b>				<b>Room: Neodraco (UFRO)</b>		
16:05-16:15	Paola Vezzani	1061	The Fragility of the Encounter from the Subantarctic to Antarctica.			
16:15-16:25	Skye Moret	1442	Warming the Deep: visualizing Antarctic overturning circulation slowdown through printmaking			
16:25-16:35	Lea Kannar-Lichtenberger	575	Antarctica: all to lose			
16:35-16:45	John Weller	1325	Art Diplomacy for Antarctica			
16:45-16:55	Petra Heil	850	Sastrugi - The story of Antarctic sea ice retold			
16:55-17:05	Marlo Garnsworthy	898	Animating Antarctica, Motivating the World—harnessing today's most powerful creative medium in Antarctic outreach and science communication			
17:05-17:15	Ellen Frye	290	Antarctica as Actor: Theatre, Performance, and Social Engagement			
<b>Session 22 : Sea ice in the atmosphere-ice-ocean-biosphere system: How, where and why is it changing, and what are the effects?</b>				<b>Room: Desmarestia (UFRO)</b>		

16:05-16:15	Holly Winton	764	Baseline records of sea ice and phytoplankton in the Ross Sea Marine Protected Area: biomarker evidence from marine and ice cores over the past 200 years		
16:15-16:25	Matteo Cecchetto	1308	Beneath Thin Ice: Evaluating the Influence of Contrasting Sea Ice Dynamics on Coastal Planktonic Communities Using Desalination Plant Filters		
16:25-16:35	Arnab Mukherjee	1002	Role of upper ocean processes on the Formation of extreme warming events in the Antarctic Sea during 2016-2017		
16:35-16:45	Iuri Gorenstein	1528	Measuring Antarctic Sea Ice decadal variability using the Differing Data Distribution Index		
16:45-16:55	Juhi Yadav	96	Understanding the Role of Atmospheric Drivers in the Unprecedented Antarctic Sea Ice Loss of February 2022		
16:55-17:05	Chun Yin Chan	396	Investigating the drivers of abrupt Antarctic sea ice decline		
17:05-17:15	Swathi M	715	Spatiotemporal evolution of sea ice and its teleconnections with large-scale climate indices over Antarctica		
17:15-17:25	Natalie Robinson	582	An unprecedented season for sea ice: a view from the ocean		

<b>Session 42: Big Data for Antarctic Biodiversity Conservation</b>					<b>Room: Cryolophosaurus (UFRO)</b>
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Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions

16:00-16:05	Opening Remarks				
16:06-16:19	Anton Van De Putte	528	Unveiling the Riches of the Frozen South: The SCAR Antarctic Biodiversity Portal		
16:20-16:33	Alice DuVivier	525	Quantifying the value of Antarctic polynyas on the ecosystem from phytoplankton to penguins		
16:34-16:47	Charles Lee	597	The Evolving Biogeography Register: machine-learning-assisted identification, extraction, and synthesis of Antarctic biogeographical knowledge		
16:48-17:01	Charlie Plasman	900	Unlocking Antarctic Biodiversity with GBIF: A cloud-based taxonomic approach		
17:02-17:15	Matteo Cecchetto	1315	DNA Barcode Completeness of Antarctic Eukaryotes: a Broad Assessment for the Identification of Knowledge Gaps		

<b>Workshop 26: Getting started with QlceRadar</b>					<b>Room: Cryobacterium (UFRO)</b>
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<b>Tuesday, 20th August</b>					
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17:30-19:00	SCAR CBET Workshop				<b>Room: Usnea (Enjoy)</b>
18:00-19:30			Mini-Symposium: Co-producing knowledge at the Antarctic science-policy interface in a complex world		<b>Room: Ballroom</b>

<b>Wednesday, 21st August</b>					
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09:00-11:00			Science Group Business Meetings - Plenary (open to all)		<b>Room: Ballroom</b>
11:30-13:00			Science Group Business Meetings - Plenary (open to all)		<b>Room: Ballroom</b>
From 14:00			SCAR Life Sciences Business Meeting (open meeting, followed by closed meeting)		<b>Room: Euphausia (Enjoy)</b>
From 14:00			SCAR Physical Sciences Business Meeting (open meeting, followed by closed meeting)		<b>Room: Pygocelis (Enjoy)</b>
From 14:00			SCAR Geosciences Business Meetings (open meeting, followed by closed meeting)		<b>Room: Colobanthus (Enjoy)</b>
18:00-19:30			International Polar Year 2032-33: From Vision to Action		<b>Room: Colobanthus (Enjoy)</b>

<b>Thursday, 22nd August</b>					
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08:30-09:15			Plenary Lecture: Dr Mathieu Casado "Setting up a context for the Anthropogenic climate change using ice core records"		<b>Room: Ballroom</b>
09:30-11:00			The Melting Frontier and Its Global Implications: exploring the Antarctic ice-ocean-atmosphere boundaries and critical interfaces that drive global climate change		<b>Room: Ballroom</b>

<b>Thursday, 22nd August</b>					
<b>Block 1: 11:30-13:00</b>					

<b>Session 7: From atmosphere to geospace: collaborative efforts in the polar regions</b>					<b>Room: Euphausia (Enjoy)</b>
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Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions

11:30-11:43	Satyajit Singh Saini	1193	Investigative study of Black Carbon Aerosol concentration variation at Indian Research Station – Bharati, Antarctica		
11:43-11:56	Rui Wang	834	Polar tropopause modulation by planetary waves based on radiosonde observations		
11:56-12:09	Shane Coyle (on behalf of Michael Hartinger)	144	Understanding the Geospace Environment from Antarctica with Autonomous Instrumentation Networks: Interdisciplinary and International Research Advances		
12:09-12:22	Juan Carlos Valdés	620	Ionospheric Total Electron Content Changes during the 15 February 2018 and 30 April 2022 Solar Eclipses over South America and Antarctica		

12:22-12:35	Yamila Melendi	587	Ionospheric effects propagation from Antarctica towards the American continent during a moderate geomagnetic storm			
12:35-12:48	Wentao Huang	367	Polar Atmosphere Lidar Observation System at Zhongshan Station, Antarctica			
<b>Session 18: Birds and Marine Mammals (Population dynamics and Breeding of Antarctic birds and mammals)</b>				<b>Room: Pygocelis (Enjoy)</b>		
11:35-11:44	Albert Palomino	1392	Penguins in the wind: colony geomorphology as a link between weather and breeding success			
11:44-11:53	Matthias Dehling	846	Global endemism of birds increases from north to south			
11:53-12:02	Rose Nichol-Foster	221	The importance of dispersal when considering population dynamics of a long-lived seabird, the emperor penguin.			
12:02-12:11	Kate Blackwell	1054	Toward identifying Antarctic petrel ( <i>Thalassoica antarctica</i> ) population differentiation			
12:11-12:20	Peter Fretwell (presented on behalf of Connor Bamford)	503	Crabeater seals post sea-ice maximum on the Western Antarctic Peninsula – insights gained from leveraging both aerial and satellite surveys			
12:20-12:29	Stewart Jamieson	255	The breeding distribution and habitat use of the snow petrel ( <i>Pagodroma nivea</i> ), the world's most southerly breeding vertebrate			
12:29-12:38	Clare Flynn	969	Modeling Pygoscelis penguin demography without banding data			
12:38-12:47	Peter Fretwell	252	A fifteen-year assessment of emperor penguin populations in the region from the Bellingshausen Sea to the Weddell Sea, based on VHR satellite imagery			
<b>Workshop 2: Antarctica InSync – preparing towards a Southern Ocean Decade program</b>				<b>Room: Colobanthus (Enjoy)</b>		
<b>Session 8: Polar extreme events and their physical drivers</b>				<b>Room: Usnea (Enjoy)</b>		
11:35-11:45	Minghu Ding	599	Atmospheric blocking-driven unprecedented extreme warming over East Antarctica in march 2022			
11:45-11:55	Gayathri EM	1004	Features of two ice sheet surface warming events in coastal Dronning Maudland, East Antarctica			
11:55-12:05	Alfredo Costa	1029	Atmospheric drivers of record-breaking low and high temperature events registered at Carlini Station (South Shetlands, Antarctica)			
12:05-12:15	Alfredo Costa	1076	Atmospheric forcings of cold and heat waves registered at Carlini Station in the South Shetlands, Antarctica			
12:15-12:25	Octavio Mercado Peña	1244	Extreme sea surface temperature events in Maxwell bay: Detecting winter marine heatwaves and marine cold spells in the last 2 decades			
12:25-12:35	Paula Amador Véliz	1247	Coastal extreme events: Oceanographic conditions and ocean-atmospheric coupling during marine heatwaves in Maxwell bay, Antarctic peninsula			
<b>Session 50: The role of archives, collections of cultural material, and long-term in-situ records in understanding Antarctic pasts, presents, and futures</b>				<b>Room: Glyponothus (Enjoy)</b>		
11:35-11:45	Gerusa Radicchi	47	In situ preservation in the South Shetland Islands: the "lifespan" of archaeological remains below the 60th parallel south			
11:45-11:55	Adrienne van Eeden-Wharton	1407	Learning from blood- and oil-soaked histories			
11:55-12:05	Ieuan Hopkins	493	Triangulating for the human: the material record and a digital future			
12:05-12:15	Ana Flavia Granja Barros	1017	Brazilian Antarctic archives: what the institutions keep in their hearts?			
<b>Session 4: The Cryosphere of the Southern Andes and connections with Antarctica (Large Scale Models, Southern Patagonia and connections with Antarctica)</b>				<b>Room: Arctocephalus (Enjoy)</b>		
11:35-11:45	Stewart Jamieson	374	Modelling the Patagonian Ice Sheet and its palaeoclimatic controls through the last glacial cycle			
11:45-11:55	Ilaria Tabone	994	Modelling the Southern Patagonia Icefield at the end of the Little Ice Age			
11:55-12:05	Dieter Tetzner	773	The first firn core from the Cordillera Darwin Icefield: Assessing the preservation of paleoenvironmental information.			
12:05-12:15	Rodolfo Iturraspe	1382	The mass balance record of the Martial Este Glacier (Tierra del Fuego, Argentina) shows behavior connections with glaciers in the Antarctic Peninsula Region			
12:15-12:25	Andrés Rivera Ibáñez	570	Calving glaciers in Patagonia and the Antarctic Peninsula; common problems and future research strategies			
12:25-12:35	Lucas Ruiz	786	Unprecedented changes at Perito Moreno Glacier. What do they mean?			
<b>Side Event 2: Antarctic Environments Portal</b>				<b>Room: Nothofagus (Enjoy)</b>		
<b>Session 35: Public Engagement with Antarctic and Southern Ocean Research</b>				<b>Room: Macronectes (UFRO)</b>		
11:35-11:45	Hayley Kwasniewski and Rose Leeger	1093	What's fun got to do with it? Engaging the public in Antarctic Science			
11:45-11:55	Jimena Cruz	280	Digital technologies in archeology and alternative ways of constructing stories about the Antarctic occupation (19th century)			

11:55-12:05	Sahnaz Vivinda Putri	604	Cross-Boundary Awareness and Mitigation Strategies: Assessing Indonesian Public Engagement with Antarctic Microplastic Pollution			
12:05-12:15	Constanza Barrientos	1460	Digital science communication from Antarctica and Punta Arenas: Connecting with new audiences through transmedia storytelling and social media			
12:15-12:25	Linda Hunt	88	Who speaks for the ice? News representations of Antarctica matter.			
12:25-12:35	Katie Marx	469	Making the headlines: media representations of ice sheets and sea level rise between 2013 and 2023			
<b>Session 38: Predicting and detecting tipping points and regime shifts in Antarctic and Southern Ocean systems</b>				<b>Room: Neodraco (UFRO)</b>		
11:35-11:45	Mike Weber	167	Multiple tipping points destabilizing the Antarctic Ice Sheet during the last and the penultimate glacial termination			
11:45-11:55	Nerilie Abram	419	Emerging tipping point elements in Antarctica			
11:55-12:05	Béatrice Desy	1267	New light on glacial terminations and recoveries ; Multiscale recurring events analysis of Antarctic ice core records			
12:05-12:15	Cara Nissen	468	A Regime Shift on Weddell Sea Continental Shelves with Local and Remote Physical and Biogeochemical Implications is Avoidable in a 2°C Scenario			
12:15-12:25	Antonino Ian Ferola	925	Temperature trends in the Pacific sector of the Southern Ocean			
<b>Side Event 1: Book panel: Colonialism and Antarctica: Attitudes, Logics and Practices</b>				<b>Room: Desmarestia (UFRO)</b>		
<b>Session 21: Fish ecosystem dynamics and biodiversity thresholds in a changing Southern Ocean: management implications</b>				<b>Room: Cryolophosaurus (UFRO)</b>		
<i>Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions</i>						
11:05-11:18	Francisco Santa Cruz	1594	Trophodynamics as a tool for monitoring population and community structure of demersal fishes in the Antarctic Peninsula: challenges for fishery management and conservation			
11:18-11:31	José P. Queirós	163	Southern Ocean deep-sea food-webs: a look into the structure, the benthopelagic coupling and the influence of environmental conditions			
11:31-11:44	Valentina Bernal-Durán	1385	Contrasting the effect of geographical distance, ocean currents and environmental variation in population connectivity of Harpagifer antarcticus along Maritime Antarctica			
11:44-11:57	Eugenia Moreira	617	Seasonal variability in trophic ecology interactions among juvenile notothenioid fish species in the South Shetland Islands: an integrative approach			
11:57-12:10	Amanda Frazier	1361	Divergent behavioral and physiological strategies drive differential performance of two common Trematomids under climate change stressors			
12:10-12:23	Tomás Ignacio Marina	240	New insights into the Weddell Sea ecosystem applying a quantitative network approach			
<b>Thursday, 22nd August</b>						
<b>Block 2: 14:00-15:30</b>						
<b>Session 7: From atmosphere to geospace: collaborative efforts in the polar regions</b>				<b>Room: Euphausia (Enjoy)</b>		
<i>Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions</i>						
14:00-14:13	Bin Li	150	Aurora ripples - a visual ionospheric emissions when auroral plasma sweeping through atmosphere			
14:13-14:26	Bea Gallardo-Lacourt	1094	Unrevealing Unexpected Solar Wind-Magnetosphere-Ionosphere Coupling: A Case Study of Extreme Subauroral Ion Drifts during quiet geomagnetic conditions			
14:26-14:39	Eduardo Perez Macho	696	Exploring the relationship between STEVE and SAID during three events observed by SuperDARN			
14:39-14:52	Maria Graciela Molina	1155	Possible links between an intense Spread-F event at a low latitude station, a geomagnetic storm and multiple substorms: a case of study			
14:52-15:05	Wojciech Miloch	1456	Ionospheric Plasma Irregularities in the Polar Regions			
15:05-15:18	Simon Bouriat	875	Improved Modeling of Polar Electron Energy Flux: Using Temporal Convolutional Networks and Integrated Gradients for Model Interpretability			
15:18-15:30	Stefan Lotz	1237	Hemispheric asymmetry in solar wind driving			
<b>Session 18: Birds and Marine Mammals (Population health and dispersal patterns of Antarctic birds and mammals)</b>				<b>Room: Pygocelis (Enjoy)</b>		
14:05-14:15	Meagan Dewar	1585	Outcomes of the SCAR Highly Pathogenicity Avian Influenza Monitoring Project			
14:15-14:25	Daniel Costa	1409	Understanding the variation within species in habitat utilization is important in assessing species' resilience to environmental disturbances.			
14:25-14:35	Grant Ballard	1522	Disparate dispersal behavior of fledgling Adélie penguins from three colonies			
14:35-14:45	Megan Reaves	815	Penguins as vectors for contaminant transport in pristine Antarctic environments			
14:45-14:55	Irene Ferreira	535	Non-Invasive Surveillance and Evolutionary Insight into Sialenavirus among Antarctic Penguins			
14:55-15:05	Víctor Manuel Neira Ramirez	1479	HPAIV H5N1 2.3.4.4 in South Polar Skuas (Stercorarius maccormicki) in James Ross Island, Antarctica			
15:05-15:15	Lucas Krüger	1089	Individual-level differences in size drive movements and spatial segregation of a pelagic seabird?			

<b>Session 47: Advancing Antarctic Observations for a Sustainable Future: Coordinated Efforts and Global Impacts - in memory of Craig Cary</b>			<b>Room: Colobanthus (Enjoy)</b>		
14:05-14:15	Alyce Hancock	746 Southern Ocean Observing System for sustained and coordinated observations in a changing world			
14:15-14:25	Vonda Cummings	812 Advancing observations in near-shore and terrestrial regions with ANTOS			
14:25-14:35	Petra Heil	853 An Integrated Atmosphere-Sea Ice-Ocean-Ecosystem Observing System for the Ross Sea to the Far East Antarctic Region RSfEAR			
14:35-14:45	Anton Van de Putte	531 Weddell Sea Observatory of Biodiversity and Ecosystem Change - WOBEC - An international collaborative effort			
14:45-14:55	Peter McComb	326 Extending the collaborative Fishing Vessel Ocean Observing Network (FVON) to vessels operating in Antarctic waters			
14:55-15:05	Manuel Novillo	306 Exploring the Unseen: developing a benthic monitoring program using ROVs in the West Antarctic Peninsula from the MS Roald Amundsen - A win-win for tourism and science			
15:05-15:15	Simone Di Palma	1024 An Early Career Researcher-driven multidisciplinary approach to address future challenges for the Ross Sea			
<b>Workshop 23: ECR Speed-Science Session organised by the UK Polar Network and APECS Uruguay</b>			<b>Room: Usnea (Enjoy)</b>		
<b>Session 50: The role of archives, collections of cultural material, and long-term in-situ records in understanding Antarctic pasts, presents, and futures</b>			<b>Room: Glyptonothus (Enjoy)</b>		
14:05-14:15	Héctor Mansilla	399 Fossils that tell the story of Antarctica: A visit to the southernmost paleontological collection in the world.			
14:15-14:25	Melinda Waterman	477 Herbarium and living mosses as rich archives of past Antarctic microclimates			
14:25-14:35	Annick Wilmotte	1470 Antarctic cyanobacterial diversity in the BCCM/ULC collection as useful and sustainable resource for research			
14:35-14:45	Gabriel Stefanelli Silva	296 Earliest historical record of microplastics in Antarctica and influence of feeding mode on textile fiber intake by deep-sea benthic invertebrates			
<b>Session 4: The Cryosphere of the Southern Andes and connections with Antarctica (Glacier changes, Snow spatial variability and Central Andes)</b>			<b>Room: Arctocephalus (Enjoy)</b>		
14:05-14:15	Felipe Fuentes	654 Estimation of water contribution from rock glaciers in the Hurtado River sub-basin, Coquimbo region, Chile			
14:15-14:25	Alfonso Fernández	971 The recent decline and future evolution of a caldera-filling glacier near Pucón			
14:25-14:35	Lautaro Clavero	451 Frontal ablation trends of the Manso Glacier, Monte Tronador			
14:35-14:45	Francisco Javier Aguirre González	1535 High spatio-temporal reconstruction of snow cover variability in Chilean southern Patagonia			
14:45-14:55	Gino Casassa	1367 Geodetic mass balance of 8 glaciers in the central Andes of Chile			
<b>Workshop 16: Antarctic Extremes: an interdisciplinary approach to understanding their drivers and impacts</b>			<b>Room: Nothofagus (Enjoy)</b>		
<b>Session 35: Public Engagement with Antarctic and Southern Ocean Research</b>			<b>Room: Macronectes (UFRO)</b>		
14:05-14:15	Skye Moret	1491 The scalar challenges of visually communicating Antarctic and Southern Ocean information			
14:15-14:25	Gabriela Roldan	1387 <i>"A picture is worth more than a thousand words": the visual aspects of communicating Antarctic science to the public.</i>			
14:25-14:35	Victoria Nuviala	1107 Diseñar en blanco. A collective approach to Architecture and Dwelling in Antarctica			
14:35-14:45	Jimena Cruz	1457 Bridging Polar Science and Public Engagement: Assessing the Impact of APECS Brazil's Initiatives			
14:45-14:55	Flavia Sasso Brandao	1160 Scientific Literacy about Antarctic Sciences through Inclusive and Digital Scientific Outreach			
14:55-15:05	Victor Fajnzylber	427 Metaverso Antártico: depicting Antarctic research and climate change through a videogame and virtual reality world.			
15:05-15:15	Jim Madsen	733 Expedition VRctica: Engaging Rural and LatinX Communities in Polar Research			
<b>Session 38: Predicting and detecting tipping points and regime shifts in Antarctic and Southern Ocean systems</b>			<b>Room: Neodraco (UFRO)</b>		
14:05-14:15	Sharon Robinson	363 Consequences of extended ozone depletion and reduced snow and ice cover for Antarctic biota			
14:15-14:25	Krystal Randall	813 Heatwaves and rapid freezing: does micro-topography influence how often Antarctic mosses exceed temperature thresholds?			
14:25-14:35	Alejandro Emmanuel	754 Climate change and tsunami vulnerability. Orcadas Argentinian base, Laurie Island, South Orkneys			
14:35-14:45	Sarah Seabrook	801 Cryospheric Cap Degradation as a Mechanism for Antarctic Seep Emergence			
<b>Session 12: Filling the gaps in AIS subglacial bed and bathymetry of the Antarctic margin</b>			<b>Room: Desmarestia (UFRO)</b>		
14:05-14:15	Peter Fretwell	370 Bedmap3: a project synopsis and look at future outputs			



14:15-14:25	Sergey Popov	664	Seven decades of Russian geophysical research in Antarctica			
14:25-14:35	Kenichi Matsuoka	864	First RINGS surveys in Antarctica 1: Establishing the primary ring in Dronning Maud Land			
14:35-14:45	Robert G. Bingham	671	New high-resolution bathymetry of a future marginal zone of Thwaites Glacier, West Antarctica?			
14:45-14:55	Duncan Young	1299	Airborne mapping of South Pole Basin and the southern Gambertsev Subglacial mountains from an old ice perspective: results of the COLDEX airborne program.			
14:55-15:05	Calvin Shackleton	1228	Quantifying bed elevation uncertainty and mapping out spatial variabilities beneath the Antarctic Ice Sheet			
15:05-15:15	G. M. Ferrante (presented on behalf of Daniela Accettella)	1282	Filling the Gaps: The ISOBatA Project's Approach to Underway Bathymetric Surveying in Antarctic Research			
<b>Session 21: Fish ecosystem dynamics and biodiversity thresholds in a changing Southern Ocean: management implications</b>						<b>Room: Cryolophosaurus (UFRO)</b>
<i>Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions</i>						
14:05-14:18	Manuel Novillo	527	A comprehensive study of the life history traits of <i>Trematomus newnesi</i> (Pisces, Notothenioidei) from the South Shetland Islands			
14:18-14:31	Hayley Kwasniewski and Rose Leeger	1111	Life history of Antarctic toothfish in the Ross Sea: implications for fish ecology and fisheries			
14:31-14:44	Cara Nissen	467	21st-century environmental change decreases habitat overlap of Antarctic toothfish ( <i>Dissostichus mawsoni</i> ) and its prey			
14:44-14:57	Jilda Alicia Caccavo	752	What environmental factors are driving genomic adaptation in Antarctic toothfish?			
14:57-15:10	José Abreu	272	Patagonian toothfish: demography, spawning and population structure over 25 years of the fishery at South Georgia			
<b>Thursday, 22nd August</b>						
<b>Block 3: 16:00-17:30</b>						
<b>Session 7: From atmosphere to geospace: collaborative efforts in the polar regions</b>						<b>Room: Euphausia (Enjoy)</b>
<i>Note: The presentations in this block are 10 minutes of oral presentation + 3 minutes of questions</i>						
16:00-16:13	Andriy Zalizovski	961	Space climate in the ionosphere over the Antarctic Peninsula as deduced from the ionospheric sounding at the Akademik Vernadsky station			
16:13-16:26	Anoruo Chukwuma	109	Traveling Ionospheric disturbances origin and propagation observed by GPS dTEC maps: case study of global ionosphere electrodynamic during geomagnetically disturbed periods.			
16:26-16:39	Chris Watson	1225	Space Weather Ionospheric Network Canada			
16:39-16:52	Vincenzo Romano	1270	The international PAGINA project to realise the Pan-Arctic GNSS Infrastructure for Atmospheric and Space Weather Science			
16:52-17:05	Rayan Imam	1212	Seven years of ionospheric scintillation monitoring using software-defined radio receiver in Antarctica			
17:05-17:18	Jaroslav Urbar	1512	Plans for deployment of ionospheric hf doppler sounding providing 3-D parameters of atmospheric gravity waves at their hotspot near Antarctic peninsula			
17:18-17:30	Lucilla Alfonsi	273	AGATA: Antarctic Geospace and ATMosphere research - the Programme Planning Group approved by SCAR			
<b>Workshop 27: Southern Ocean Ecosystem Services Valuation</b>						<b>Room: Pygocelis (Enjoy)</b>
<b>Session 47: Advancing Antarctic Observations for a Sustainable Future: Coordinated Efforts and Global Impacts - in memory of Craig Cary</b>						<b>Room: Colobanthus (Enjoy)</b>
16:05-16:15	Charles Lee	598	Hauwai-20: An autonomous biological sampler for year-round biological collection and oceanographic measurements under Antarctic sea ice			
16:15-16:25	Oyarce Vejar	1210	Advances in antarctic environmental monitoring: The LEMA network as a tool for studying the effects of global climate change on the Antarctic Peninsula and its surroundings.			
16:25-16:35	Rabia Mathakutha	888	The South African Polar Research Infrastructure (SAPRI) - Enhancing long-term observations of South Africa's polar region through seamless access to research infrastructure.			
16:35-16:45	Pasquale Castagno	1314	Italian Marine Observatory in the Ross Sea – MORSea			
16:45-16:55	Irene R. Schloss	1246	Monitoring plankton and hydrography in Potter Cove: observing a changing system during 30 years			
16:55-17:05	Christina A. Pedersen	208	The Troll Observing Network (TONE): A contribution to improving observations in the data-sparse region of Dronning Maud Land, Antarctica			
17:05-17:30	Session convenors		Dialogue and discussion			
<b>Workshop 23: ECR Speed-Science Session organised by the UK Polar Network and APECS Uruguay</b>						<b>Room: Usnea (Enjoy)</b>
<b>Session 48: Is Antarctic science ready to help tackle urgent global issues? Perspectives on strengthening equitable science communities</b>						<b>Room: Glyponothus (Enjoy)</b>

16:05-16:15	Barrientos Soto	806	From the heroic age to the present day: Challenges and Historical-legal analysis of discrimination against women in Antarctic scientific exploration and research			
16:15-16:25	Pilvi Saarikoski	213	Addressing Equality, Diversity and Inclusion from within the Scientific Committee on Antarctic Research			
16:25-16:35	Sharon Robinson	798	Collaboration, Ambition, Diversity and Community – core values of the Securing Antarctica's Environmental Future program			
16:35-16:45	Mariama C. Dryák-Vallies	544	Challenges, needs and proposed solutions for better supporting everyone in our polar early career researcher community			
16:45-16:55	Paola Barros Delben	1168	Difficulties for researchers at the beginning of their careers who make up APECS-Brasil			
16:55-17:05	Pilvi Saarikoski	126	Widening participation in Polar Science: The Diversity in UK Polar Science Initiative (DIPSI)			
17:05-17:15	Kenichi Matsuoka	1231	Shared values and guiding principles for RINGS Action Group			
<b>Workshop 15: Antarctic annual climate report: concept and feasibility</b>					<b>Room: Arctocephalus (Enjoy)</b>	
<b>Workshop 16: Antarctic Extremes: an interdisciplinary approach to understanding their drivers and impacts</b>					<b>Room: Nothofagus (Enjoy)</b>	
<b>Session 35: Public Engagement with Antarctic and Southern Ocean Research</b>					<b>Room: Macronectes (UFRO)</b>	
16:05-16:15	Julia Saravia	1518	Antarctica takes over the city: engaging the local community through an urban science festival			
16:15-16:25	Marlo Garnsworthy	744	Farther In, Farther Out... And Almost There—engaging project communications and staying nimble during a deep-field Antarctic science expedition			
16:25-16:35	Verena Meraldi	1099	The untapped potential of crowdsourcing to support research in the polar regions: assessing the impact of citizen science on tourist vessels.			
16:35-16:45	Adele Jackson	412	Speaking up for albatross: Advocating for conservation through a museum exhibition			
16:45-16:55	Katie Marx	830	Public Engagement with Antarctic Research: Creating a Research Agenda			
16:55-17:05	Lewis Williams	542	Nexus and fulcrum: an exploration of the role of poetry and the poetry workshop in polar science communication			
<b>Session 49: Towards Net Zero Antarctic Stations</b>					<b>Room: Desmarestia (UFRO)</b>	
16:05-16:15	Manuel Guedes	1601	Building Resilience on Antarctic Bases – lessons from 8 stations in the 2024 season			
16:15-16:25	Amy Bender	1003	Techno-economic analysis of renewable energy generation at the South Pole			
16:25-16:35	Mick Schussel	242	Team Polar: Developing an electric and autonomous vehicle for safer Antarctic research			
16:35-16:45	Sue Roaf	695	Pools and Streams: Flows of Heat and Cold through a Polar Base			
16:45-16:55	Grant Henshaw	52	A study into the insulative effects of snow on flat roofs under extreme conditions			
16:55-17:05	Susan Roaf and Manuel Gueddes	979	The Polar Lodge: a Resilient Temporary Shelter in Antarctica			
<b>Workshop W8: Interdisciplinary mapping of "sentinel territories" in Antarctica and Subantarctica</b>					<b>Room: Cryolophosaurus (UFRO)</b>	
<b>*new date and time*</b>						
<b>Workshop 7: Exploring Medical, Physical, Mental Health and psychosocial Dynamics in Preparation for Antarctic Expeditions: Examining Acute and Chronic Responses in an Isolated and Extreme (ICE) Environment</b>					<b>Room: Neodraco (UFRO)</b>	
<b>Thursday, 22nd August</b>						
17:30-19:30			Poster Session B		<b>Room: Multicancha</b>	
from 19:30			Conference Dinner		<b>Enjoy Hotel Restaurant</b>	
<b>Friday, 23rd August</b>						
08:30-09:15			Plenary Lecture: Prof Meredith Nash "The reckoning: how #MeTooAntarctica is changing fieldwork"		<b>Room: Ballroom</b>	
<b>Friday, 23rd August</b>						
<b>Block 1: 09:45-11:15</b>						
<b>Session 13: Reconstructing past Antarctic ice-sheet and glacier dynamics</b>					<b>Room: Euphausia (Enjoy)</b>	
09:50-10:00	Alisa Chung	102	Modelling the age-depth relationship and basal conditions using radar horizons at Dome C			

10:00-10:10	Nick Golledge	74	A paradigm shift in Antarctic glaciology?			
10:10-10:20	Laura De Santis	606	Late Quaternary dynamics of the Cook and Ninnis glacial system (East Antarctica): new insights from continental margin geophysical data			
10:20-10:30	Michael Stone	432	Glacier movements in lower Taylor Valley during and following the Ross Sea I glaciation			
10:30-10:40	Mahesh Badnal	829	Response of a seasonal ice free lake-climate interactions reconstructed from organically synthesized proxies			
10:40-10:50	Cheryl A. Noronha-D'Mello	848	LGM's Fingerprint: Unveiling Ice Sheet Retreat and Terrestrial Change in East Antarctica (29 kyr Lake Record)			
10:50-11:00	Mike Bentley	881	Mud, boulders and bird vomit: using glacial geology and biology to constrain Antarctic ice sheet models			
<b>Session 18: Birds and Marine Mammals (Novel approaches to study Antarctic birds and mammals)</b>				<b>Room: Pygocelis (Enjoy)</b>		
09:45-09:55	Diego Filun	879	Passive Acoustic Networks for Monitoring Marine Mammal Occurrence and Anthropogenic Impact in Antarctic and Subantarctic Regions			
09:55-10:05	Michelle LaRue	1208	Fit for an emperor: are icebergs key to colony size and stability for emperor penguins?			
10:05-10:15	John Lyons	601	Using a statistical framework to detect ecological regime shifts in Antarctica.			
10:15-10:25	Alyssa Scott	1062	Using citizen science as a tool to assess Antarctic pack ice seal distributions and habitat preferences in a changing climate			
10:35-10:35	Andy Lowther	708	Deep dives with Chinstrap Penguins: machine learning as a tool to identify prey-capture events from animal-borne data loggers			
10:35-10:45	Elling Deeher Johannessen	1058	Intra-season variations in distribution and abundance of humpback whales in the West Antarctic Peninsula using cruise vessels as opportunistic platforms			
10:45-10:55	Luis Huckstadt	717	A new perspective: Using environmental data collected from Animal-Borne Instruments (ABI) deployed on central-place foragers to investigate long-term trends in the coastal Southern Ocean environment			
10:55-11:05	Andrea Pinones	967	Ocean circulation and bathymetry controls on the presence of a biological hotspot at the northern Antarctic Peninsula			
11:05-11:15	Luis Bedriñana-Romano	722	Simultaneous modelling of horizontal and vertical movement patterns of Humpback whales in the Southwest Atlantic and Southern Oceans			
<b>Session 15: Remote sensing for observing, monitoring and mapping the Antarctic</b>				<b>Room: Colobanthus (Enjoy)</b>		
09:50-10:00	Lic. Liliana Margonari	947	25 years of glacial retreat on Vega Island, Northeast Antarctic Peninsula			
10:00-10:10	Prof Rene Forsberg	939	Mass balance of Antarctica from GRACE, CryoSat and ICESat			
10:10-10:20	Prof. Rongxing Li	1402	MECEM – a new Model for Elevation Change Estimation in Antarctica from ICESat-2 altimetric Data			
10:20-10:30	Dr Andres Rivera	576	Ice elevation changes in the interior of the West Antarctic Ice Sheet by comparing in situ GPS and remotely sensed LiDAR data			
10:30-10:40	Professor Gang Qiao	1057	Assessment of ICESat-2 Ice Surface Elevations in Antarctica based on Multi-sensor Ground Observations			
10:40-10:50	Dr. Matthew Siegfried	1223	13 years of variable height-changes of Gould, Siple, and Shirase coast ice streams from CryoSat-2 altimetry			
<b>Workshop 5: Antarctic early career research priorities to inform International Polar Year discussions – Workshop to develop first draft</b>				<b>Room: Usnea (Enjoy)</b>		
<b>Session 1: Astronomy, Astrophysics and Geo-Space Observations from Antarctica</b>				<b>Room: Glyponothus (Enjoy)</b>		
09:50-10:00	Zhaohui Shang	157	Three-year atmospheric seeing monitoring at Dome A, Antarctica			
10:00-10:10	Wentao Huang	367	Polar Atmosphere Lidar Observation System at Zhongshan Station, Antarctica			
10:10-10:20	Huyi Naoc	856	Study on long-term stratified meteorological conditions for astronomy at Dome A			
10:20-10:30	Julián Rodríguez-Ferreira	1563	Advancing Radio Astronomy: Site Characterization and Telescope Development in Antarctica for Epoch of Reionization Studies			
10:30-10:40	Benjamin Schmitt	1436	The BICEP Array Replacement Tower (BART): Polar Infrastructure Development Supporting Cosmic Microwave Background Research			
10:40-10:50	Zhaohui Shang	483	The JH bands imaging of Antarctic InfraRed Binocular Telescope (AIRBT) from Dome A in 2024			
10:50-11:00	Amy Bender	1363	Cosmic microwave background measurements from the South Pole			
<b>Session 5: Physical drivers and climate implications of Antarctic sea ice variability and change (Antarctic Sea Ice: Oceanic variability, polynya, and high resolution models)</b>				<b>Room: Arctocephalus (Enjoy)</b>		
09:50-10:00	Sharon Stammerjohn	1444	The ocean's role in driving Antarctic sea ice changes, a data/model investigation			
10:00-10:10	Natalia Cisternas	1268	Exploring hydrographic properties around the south Shetland islands: insights from pinniped sensors			
10:10-10:20	Mikhail Molchanov	884	Variability of the structure and intensity of gravity currents in the Antarctic coastal polynya areas			
10:20-10:30	Babula Jena	142	An extensive unique open ocean polynya in the central Weddell Sea, Antarctica in December 1980			
10:30-10:40	Hugues Goose	42	Role of atmospheric and oceanic processes in the variability of Antarctic sea ice extent over the period 1958-2023			
<b>Session 32: Antarctic and Southern Ocean histories: new perspectives and interpretations (Information and Identity)</b>				<b>Room: Nothofagus (Enjoy)</b>		

09:50-10:00	Consuela Leon	219	Information and disinformation on Antarctica's fate, 1948-1958: Perceptions from Chile diplomat Mario Rodríguez
10:00-10:10	Ignacio Cardone	1334	The Antarctic Society: The nested nature of South America's Antarctic Identity
10:10-10:20	Diego Acquirrezabal	935	Memoires in white: new evidence about the indigenous presence in Antarctica.
10:20-10:30	Nelson Llanos	712	The US state Department and Antarctica during the government of Jimmy Carter, 1977-1981
10:30-10:40	Linda Hunt	1536	Women of the ice: an oral history of female Antarctic scientists
10:40-10:50	Ursula Rack	470	Whaling, colonialism, and ideas for a legal framework in the Antarctic in 1940

**Session 9: Terrestrial Antarctica at the crossroads of change**

**Room: Macronectes (UFRO)**

09:50-10:00	Morgan Wood	86	Will Increased Melt and Thaw Affect the Distribution of Terrestrial Micro-Invertebrates in the McMurdo Dry Valleys?
10:00-10:10	Zoie Yetley	404	Greening Antarctica: the role of moss functional traits in ecosystem processes and climate interactions
10:10-10:20	Alexis Gaete	636	Deciphering the microbiota of Cryptopygus antarcticus and its relationship to the bacterial community of the surrounding soil
10:20-10:30	Jill Mikucki	1329	Microbial Secondary Metabolites along Natural Gradients: Sentinels of Environmental Change in an Antarctic polar desert
10:30-10:40	Carolina Merino	1287	The Climate Feedback Loop: Amino Acid Metabolism's Effect on GHG Emissions in Antarctic Soils

**Session 45: Beyond Borders: Aligning Antarctic Field Campaigns for Enhanced Collaborations**

**Room: Neodraco (UFRO)**

09:50-10:20	Peter Convey	730	Collaboration in the Face of Current Geopolitics and Conflict
10:20-10:30	Julia Bach	502	DueSouth & Polardex: Enhancing Collaborative Fieldwork in the Southern Ocean & Polar Regions
10:30-10:40	Stian Solbø	1196	Troll Observing Network Drone Service
10:40-11:10	Britney Schmidt	831	Going Under Cover: Interdisciplinary, International Collaboration for Accessing Under Ice

**Session 20: Recent and anticipated shifts in Southern ocean biogeochemistry**

**Room: Desmarestia (UFRO)**

09:50-10:00	Thiago Monteiro	60	Modes of climate variability as drivers of macronutrient variability in the Southern Ocean
10:00-10:10	Jakob Weis	263	Dust Deposition Modulates Southern Ocean Phytoplankton Physiology and Carbon Export
10:10-10:20	Enrique Isla	876	Autumn leaves: coastal organic carbon settling fluxes in the fall equal the intense summer energy pulse, is climate change at play?
10:20-10:30	Laura Dalman	783	Estimating net community production in Antarctic sea ice
10:30-10:40	Cara Nissen	466	Severe 21st-century ocean acidification in Antarctic Marine Protected Areas

**Workshop 18: Piloting a new web based ecological index towards identifying Antarctic coastal ecological hotspots**

**Room: Cryolophosaurus (UFRO)**

**Friday, 23rd August**  
**Block 2: 11:45-13:15**

**Session 13: Reconstructing past Antarctic ice-sheet and glacier dynamics**

**Room: Euphausia (Enjoy)**

11:50-12:00	Elizabeth Keller	755	Sensitivity of climate and ocean circulation to West Antarctic Ice Sheet extent in past interglacials
12:00-12:10	Marianne Heberlein	1158	Pleistocene-Holocene oceanography and glacial dynamics in Cranton Bay, Amundsen Sea, West Antarctica
12:10-12:20	Reed Scherer	1590	Diatom, clay and geochemical records of Pleistocene West Antarctic Ice Sheet instability in the outer Amundsen Sea, last 600,000 years
12:20-12:30	Philip Bart	193	Pre- and post-LGM grounding line oscillations reconstructed from the Ross Bank Paleo-Ice Rise in Ross Sea, Antarctica
12:30-12:40	Dieter Tetzner	777	Did the Ronne ice shelf suddenly retreat during the Last Glacial-Interglacial Transition? New evidence from diatoms preserved in ice cores
12:40-12:50	Lorena Rebolledo	376	Marine productivity changes in the Ross Sea Polynya (Antarctica) during the last 500 years as inferred from diatom assemblages
12:50-13:00	Cliff Atkins	1324	Mud pellets in sediment cores from beneath the Ross Ice Shelf: markers of subglacial drainage and grounding line retreat.

**Session 18: Birds and Marine Mammals (Trophic ecology and impacts of climate change on Antarctic birds and mammals)**

**Room: Pygocelis (Enjoy)**

11:50-12:00	Emily Sperou	1136	Evaluating Population and Individual-Level Trophic Ecology in Leopard Seals Over Time
12:00-12:10	Danielle Keys	1339	Life History and Foraging Efficiency: Implications for breeding success in Wandering Albatrosses on Marion Island
12:10-12:20	José Xavier	275	Antarctic seabirds as indicators of climate change: Science, Challenges and the Future
12:20-12:30	James Grecian	1217	Areas of Ecological Significance for Southern Ocean nekton
12:30-12:40	Cláudia Ribeiro	1186	Impact of increasing warm weather events on penguin reproductive behaviour across the Antarctic Peninsula
12:40-12:50	Katherine Gallagher	975	Pygoscelis penguin colonies occupy differing oceanographic and terrestrial niches

12:50-13:00	Renan Lima	91	Assessing foraging habits of Weddell seals in contrasting climate change impact zones of the Antarctic Peninsula			
<b>Session 15: Remote sensing for observing, monitoring and mapping the Antarctic</b>				<b>Room: Colobanthus (Enjoy)</b>		
11:50-12:00	Alix Post	324	Unlocking Antarctica: Building an open access, accessible satellite data platform			
12:00-12:10	Chad Greene	403	ITS_LIVE Version 2: A new generation of glacier observations			
12:10-12:20	Laura Lindzey	1277	QlceRadar: A Tool for Accessing and Visualizing Georeferenced Radargrams in QGIS			
12:20-12:30	Cathleen Torres Parisian	1351	Unlocking the Potential of Polar Orbiting Satellites: The Impact on Polar Observation and Mapping by the Reference Elevation Model of Antarctica (REMA) and the Polar Geospatial Center (PGC)			
12:30-12:40	Huicheol Shin	981	Long-Range Wireless Networks for Internet of Extreme Things			
12:40-12:50	Veronica Tollenaar	387	Observing blue ice areas using remote sensing, deep learning, and field-based methods			
12:50-13:00	Michael Stone	520	Measuring and modeling functional moat area in perennially ice-covered Lake Fryxell, Antarctica			
<b>Session 26: Genomic insights into past and present Antarctic Biodiversity</b>				<b>Room: Usnea (Enjoy)</b>		
11:50-12:00	Valentina Savaglia	1421	Life on the edge: resistance mechanisms to desiccation and re-wetting of two Antarctic Nostoc sp. strains from freshwater and terrestrial habitats			
12:00-12:10	Sebastian Rosenfeld	1023	Tracing the Origins of Antarctic Periwinkles: A Molecular Perspective on Laevilacunaria Evolution			
12:10-12:20	Vahid Sepahvand	202	Does the vehicle shape the ride: An investigation of the population structure of grenadier fish (Macrourus whitsoni ) and parasitic copepod			
12:20-12:30	Jilda Caccavo	747	Population genomics of Antarctic toothfish: exceptions to panmixia			
12:30-12:40	Fabiola Leon	1395	Island Hopping Penguins: An Evolutionary Tale of Divergence and Adaptation Across Ocean Fronts			
12:40-12:50	Daly Noll	1493	Patterns of genomic divergence during adaptive speciation and future projections in gentoo penguins			
12:50-13:00	Felipe Avello	955	Relevant biological processes in penguin molecular evolution revealed by pleiotropy effect analysis			
<b>Session 1: Astronomy, Astrophysics and Geo-Space Observations from Antarctica</b>				<b>Room: Glyponothus (Enjoy)</b>		
11:50-12:00	Adriana Maria Gulisano	48	Frontiers of Space Weather Research: The Role of AASWO in Antarctic Monitoring			
12:00-12:10	Wojciech Miloch	1469	Troll Ionospheric Observatory in Dronning Maud Land, Antarctica			
12:10-12:20	Acharya Seripienlert	865	Simulations of the Yield Functions of Semi-Leaded Neutron Monitor Latitude Surveys			
12:20-12:30	Jim Madsen	668	Update on the High-Energy Universe from IceCube			
12:30-12:40	Michael Duvernois	1575	The IceCube Upgrade at the South Pole			
<b>Session 5: Physical drivers and climate implications of Antarctic sea ice variability and change ( Antarctic sea ice variability and trends)</b>				<b>Room: Arctocephalus (Enjoy)</b>		
11:50-12:00	Laura Landrum	1459	Confronting discrepancies between observed and simulated seasonal and regional Antarctic sea ice			
12:00-12:10	Fu Zhao	156	Impacts of the Long-Term Atmospheric Trend on the Seasonality of Antarctic Sea Ice			
12:10-12:20	Kshitija Suryawanshi	506	Recent changes in Antarctic sea ice cover from 2016 to 2023 using satellite observations, Argo floats, and model reanalysis			
12:20-12:30	Ryan Fogt	449	Recent Antarctica sea ice extremes in the historical context of the 20th century			
12:30-12:40	Hongjie Xie	120	The shift of sea ice mass balance in the Ross Sea caused by atmospheric forcings			
12:40-12:50	Rafael Cesar Silva	745	Correlation between Antarctic sea ice variability in the Weddell Sea, South Atlantic subtropical high and precipitation in Brazil			
12:50-13:00	Jiping Liu	1025	Substantial Antarctic sea ice loss can contribute to increased occurrence of strong El Nino			
<b>Session 32: Antarctic and Southern Ocean histories: new perspectives and interpretations (Information and Identity)</b>				<b>Room: Nothofagus (Enjoy)</b>		
11:50-12:00	Vani Sreekanta	1019	Empires, borders, impasse: an excessive history of Southern Ocean governance			
12:00-12:10	Luis Assis	319	Anthropological implications for Antarctic colonization from the geoarchaeological discoveries on the 'fat derived char concretion'			
12:10-12:20	Melisa Salerno	833	Rethinking Antarctic sealing elephanting industry (19th century). Exploring new historical sources			
12:20-12:30	Paval Filin	316	Historical sites and monuments as an interface for our understanding of history. An example of Russian heritage in Antarctica			
12:30-12:40	Peder Roberts	43	The political power of common heritage in Antarctic Governance debates			
<b>Session 9: Terrestrial Antarctica at the crossroads of change</b>				<b>Room: Macronectes (UFRO)</b>		
11:50-12:00	Charles Lee	595	An integrated, scale-appropriate, and data-driven approach to understanding the future of Antarctic terrestrial ecosystems in a warming climate			

12:00-12:10	Eva Nielsen	1207	Recent temperature trends and implications for biodiversity in Antarctica's ice-free bioregions			
12:10-12:20	Denise Mondragon	1103	Development of a laboratory simulation for freeze-thaw of aeolian sediments in glacial systems			
12:20-12:30	Becky Ball	136	Soil Biological and Biogeochemical Changes During Succession after Glacial Retreat			
12:30-12:40	Marisol Juarez Rivera	1130	Tracking Biomass Mobilization in Ice-Covered Antarctic Lakes			
12:40-12:50	Hebel C. Ingrid	1357	Preliminary genetic analysis of moss species and its relationship with recently deglaciated areas in Southern Patagonia and Fildes Peninsula, Maritime Antarctica			
<b>Session 46: Consensus building based on best available science under ATS</b>				<b>Room: Neodraco (UFRO)</b>		
11:50-11:55	Akiho Shibata	9	An Introduction: Institutional framework to implement Antarctic governance based on best available science			
11:55-12:05	Akiho Shibata	905	A reality? Field research on "giant underwater curtains" and legal issues potentially raised during early phase of Antarctic mega-engineering projects to slow ice-sheet melting			
12:05-12:15	Katharina Heinrich	845	Consensus in the absence of best available science in times of change: Conservation Measure 24-04			
12:15-12:35	Discussion of three presentations					
12:35-12:45	Marco Volpe	484	The Best Available Science paving the way for Integrative Negotiation: a situational analysis of ASPA 178			
12:45-12:55	Natasha Gardiner	66	Practitioners' perspectives on the enablers and barriers to successful Antarctic science-policy knowledge exchange practices			
13:05-13:30	Discussion of two presentations and wrap-up comments from co-convenors					
<b>Workshop 10: Resources in Data Management</b>				<b>Room: Desmarestia (UFRO)</b>		
<b>Friday, 23rd August</b>						
<b>Block 3: 14:00-15:30</b>						
<b>Workshop 1: Essential Variables for the Antarctic and Southern Ocean region</b>				<b>Room: Euphausia (Enjoy)</b>		
<b>Workshop 4: How to design compelling figures and graphics</b>				<b>Room: Pygocelis (Enjoy)</b>		
<b>Session 15: Remote sensing for observing, monitoring and mapping the Antarctic</b>				<b>Room: Colobanthus (Enjoy)</b>		
14:05-14:15	Jonathan Adams	1375	Application of satellite imagery to identify silica-rich rock for future cosmogenic nuclide exposure dating in remote unvisited areas of Antarctica			
14:15-14:25	Juan C. Montes-Herrera	873	Proximal Remote Sensing of Benthic Communities with Underwater Optical Imaging Techniques			
14:25-14:35	Britney Schmidt	1320	Design and Deployments of Antarctic Submersible ROV Icefin for Subglacial Observations and Mapping			
14:35-14:45	Juan Sandino	1340	Optimising UAS protocols for Vegetation Monitoring in Antarctica: Key Insights and Case Studies from the Windmill Islands, and Bunger Hills			
14:45-14:55	Mark Salvatore	639	Quantifying photosynthetic biomass in Taylor Valley, Antarctica, and modeling habitat suitability in a changing climate			
14:55-15:05	Drew Taylor	1431	A lightweight, high-power, ultra-wideband radar system for polar ice surveys			
15:05-15:15	Thomas Schmid	1576	Distribution of terrestrial land surface covers in the northern Antarctic Peninsula region using reflectance spectroscopy			
<b>Session 26: Genomic insights into past and present Antarctic Biodiversity</b>				<b>Room: Usnea (Enjoy)</b>		
14:05-14:15	Abigail Borgmeier	580	Discrepancies between morphological and molecular diversity in an Antarctic nematode			
14:15-14:25	Claudia Maturana	714	Ancient diversification in extreme environments: Exploring the historical biogeography of the Antarctic winged midge <i>Parochlus steinenii</i> (Diptera: Chironomidae)			
14:25-14:35	Mélanie Delleuze	1480	The role of gut microbiome in ecological niche differentiation, enabling the coexistence of two Antarctic echinoid species in the same habitat			
14:35-14:45	Maria Quiroga	224	Variable and homogeneous selection simultaneously shape microdiverse bacteria in an Antarctic wetland complex			
<b>Workshop 22: Minimising Environmental Impacts using Different Modes of Access in Polar Research</b>				<b>Room: Glyptonothus (Enjoy)</b>		
<b>Workshop 7: Exploring Medical, Physical, Mental Health and psychosocial Dynamics in Preparation for Antarctic Expeditions: Examining Acute and Chronic Responses in an Isolated and Extreme (ICE) Environment</b>				<b>Note: This workshop has been moved to Thursday 16:00-17:30 in room Neodraco (UFRO)</b>		

<b>Workshop 9: Publications in the Antarctic Humanities</b>			<b>Room: Nothofagus (Enjoy)</b>		
<b>Workshop 20: Synergistic approach to addressing DEI issues; learning from different contextual initiatives</b>			<b>Room: Macronectes (UFRO)</b>		
<b>Side Event 3: Space4Antarctica</b>			<b>Room: Neodraco (UFRO)</b>		
<b>Session 29: Antarctic ectotherm resilience: genomic and epigenomic adaptation and physiological capacities/plasticities to cope with climate change</b>			<b>Room: Desmarestia (UFRO)</b>		
14:05-14:15	Julia York	12	Temperature sensing proteins expressed in Antarctic fish across species pairs independently re-adapted to temperate waters		
14:15-14:25	Luis Vargas-Chacoff	991	Antarctic fish Harpagifer antarcticus as climate change sentinel		
14:25-14:35	Pedro Guerreiro	1499	Will photoperiod and temperature asynchrony affect the physiology of the antarctic spiny plunderfish Harpagifer antracticus?		
14:35-14:45	Julia Saravia	1531	HSP70 gene expression and protein levels in two notothenioid fish under immunostimulation and thermal variation		
14:45-14:55	Pedro Guerreiro	1486	Increased temperatures hamper the acute stress response in the marble rockcod Notothenia rossii by reducing interrenal sensitivity		
14:55-15:05	Kurt Paschke	1560	Impact of Heat Waves on thermal tolerance and metabolic physiology of Antarctic amphipods		
15:05-15:15	Simon Morley	266	Testing the resilience, physiological plasticity and mechanisms underlying upper temperature limits of Antarctic marine ectotherms		
<b>Friday, 23rd August</b>					
16:00-16:30			Certificates of Appreciation	<b>Room: Ballroom</b>	
16:30-17:30			Closing Ceremony	<b>Room: Ballroom</b>	
from 19:30			Antarctic Party	<i>tbc</i>	