



POSTER PRESENTATIONS

TUESDAY – WEDNESDAY 1415-1515			
Name	Poster Title	Poster #	Board #
CLIMATE SYSTEM AND CHANGE			
Miss Katja Curtin - ANU	Understanding Southern Ocean heat and carbon ventilation to improve climate projections	59	1
Dr Reka-Hajnalka Fulop - ANSTO	In situ cosmogenic C-14 systematic and its implication for Antarctic Ice-Sheet reconstruction	268	2
Ms Talia Hawkes - IMAS, UTAS	Investigating the systematics of Pb isotopes in seawater at East Antarctica's Denman Glacier	226	3
Ms Alexandra Parrott - UTAS	Examining the stability of the Lambert-Amery glacial system across the Mid-Pleistocene Transition using sedimentary records	141	4
Ms Harriet Easterbrook - UTAS	The source of recent polar Southern Ocean warming	158	5
Dr Ezhilsabareesh Kannadasan - ACCESS-NRI / ANU	Towards a fully coupled ocean sea-ice wave configuration in ACCESS-OM3	258	6

Mr Jenan Rajavarathan - <i>UTAS</i>	Sensitivity of Antarctic GPS-derived bedrock motion to surface mass balance loading corrections and reference-frame realisation strategies	119	7
Mr John Reilly - <i>UTAS</i>	Towards Dynamic Ice-Sheet Coupling in the ACCESS Earth System Model	225	8
LCDR Daniel Atwater - <i>ADF</i>	Representing Antarctic landfast sea ice in CICE6 with lateral drag from coastlines and grounded icebergs	274	9
Dr Daniel Baggenstos - <i>AAD</i>	A new Australian gas lab for the Million Year Ice Core project	221	10
Ms Alanah Chapman – <i>Uni Melb</i>	A model sensitivity analysis of aerosol precursor emissions related to Antarctic sea ice	99	11
Ms Hannah Clark - <i>Victoria University of Wellington</i>	A new biomarker record of East Antarctic temperature and vegetation across the Eocene-Oligocene Transition.	125	12
Mr Alexander Doherty - <i>UTAS</i>	Understanding variability beneath the Amery Ice Shelf, East Antarctica	152	13
Dr Jodi Fox - <i>UTAS</i>	New Insights from Gaussberg Volcano, East Antarctica	233	14
Dr Matthew Jeromson - <i>Uni Canb</i>	Simultaneous atmospheric–oceanic controls on East Antarctic Peninsula ice-shelf stability during the Holocene	235	15
Ms Lanyu Jia - <i>Monash</i>	Evaluating CMIP6 representation of climate modes and teleconnections to Antarctic mass balance	90	16
Dr Junshu Lin - <i>UNSW / South China Sea Institute of Oceanology, CAS</i>	Delayed Response of Eddy Kinetic Energy Build-up off Somali Coast During Summer Monsoon	148	17
Dr Scott Meyerink - <i>AAPP</i>	Dissolved Trace Metal Distributions Along a GEOTRACES Transect from Antarctica to South West Australia (I09S)	201	18
Dr Ryan North - <i>Monash</i>	Resolving Late Quaternary East Antarctic Ice-Sheet Dynamics in Dronning Maud Land Using Paired Cosmogenic ¹⁰ Be and in-situ ¹⁴ C Chronologies	21	19
Dr Yushan Qu - <i>UNSW / Ocean University of China</i>	Projected Changes of Mesoscale Eddy Activity in Subantarctic Mode Water Formation Regions	173	20
Distinguished Professor Joellen Russell - <i>University of Arizona</i>	Seasonal stratospheric cooling over Antarctica changes the climate	187	21

Ms Helen Shea - <i>Monash</i>	High and low Antarctic sea ice states in CMIP6 models	162	22
Dr Daniela F Soto - <i>Universidad De Talca</i>	CryoRoads: an eco-genomic framework for mapping the biogeography and dispersal pathways of Antarctic snow algae	83	23
Ms Yucan Wu - <i>ANU</i>	Iron Isotope Systematics in East Antarctic Coastal Waters: A Comparison of the Mertz and Denman Glacier Regions	195	24
BIODIVERSITY			
Dr Cara Masere - <i>AAD</i>	Long-term monitoring of fish at Heard Island and McDonald Islands: Insights into biodiversity and management applications	275	25
Mr Fernando Mejia Gonzalez - <i>James Cook University</i>	Unfreezing the genome of an Antarctic octopus: Chromosome-level assembly and genome annotation of <i>Adelieledone adeliae</i>	117	26
Ms Jaslyn Allnutt - <i>IMAS</i>	How do diving seabirds use the Macquarie Island Marine Park?	28	27
Mr Ming Cheng - <i>ANU</i>	A temperature-normalised view of Southern Ocean primary productivity under climate warming	81	28
Dr David Green - <i>ACEAS</i>	Foraging seals reveal vertical structure of Southern Ocean myctophids	239	29
Miss Clarissa Hee - <i>Monash</i>	The Signy Island biodiversity database	134	30
Ms Maddison Howell - <i>JCU</i>	Using a whole genome assembly of <i>Sterechnus antarcticus</i> to uncover the genomic basis of survival in the Antarctic deep-shelf environment	120	31
Miss Laura Patier - <i>IMAS</i>	Pathogens in Antarctic wildlife: detection and discovery	76	33
Ms Yongyi Peng - <i>Monash</i>	Dryland soils are hotspots of diverse and dynamic prokaryotic antiviral defenses	34	34
Miss Andrea Polanowski - <i>AAD</i>	CircumPOolar DNA diet comparison: spatial variation in the diet of Adélie penguin populations at nine breeding sites across Antarctica.	63	35
Ms Ilona Sinn - <i>UOW</i>	Humpback whale recovery in the Southern Ocean: demographic drivers and vulnerability to environmental change	20	36

Professor Kerrie Swadling - <i>AAPP</i>	Arms race in the Southern Ocean: copepods and krill exert strong grazing pressure on the diatom <i>Fragilariopsis kerguelensis</i> .	227	37
FIELD CAMPAIGNS			
Dr Linda Armbrrecht - <i>IMAS</i>	Cook Ice Ecosystems and Sediments - COOKIES (IN2026_V01)	142	38
Dr Abigail Smith - <i>AAD</i>	Krill Assisted Resuspension of Material to Atmosphere (KARMA): what goes down comes back around	86	39
Dr Shavawn Donoghue - <i>AAD</i>	The trajectory of the southern elephant seal (<i>Mirounga leonina</i> L.) population at Heard Island (1948-2025), a South Indian Ocean World Heritage property	182	40
Prof Andrew Bowie - <i>IMAS</i>	A Decade Long Study of the Role of the Atmosphere in Supplying Iron to the Southern Ocean South of Australia	13	41
Dr Sonya Fiddes - <i>AAPP / IMAS</i>	Modelling the MISO voyage: biological influence on aerosol, clouds and radiation	18	42
Ms Megan Kerr - <i>University of Texas</i>	The coupling of ice and rock over deep time in the southern flank of Dome A, Antarctica: Results from the NSF Center for Oldest Ice Exploration (COLDEX)	37	43
Dr Sally Lau - <i>JCU</i>	Octopus diversification follows Antarctic Bottom Water pathways and intersection	135	44
Dr Coti Manassero - <i>ACEAS</i>	Integrated Magnetotelluric and Seismic Constraints on Mantle Viscosity Beneath East Antarctica	25	45
Dr Tobias Staal - <i>UTAS</i>	The Bathymetry under Shackleton Ice Shelf	265	46
MONITORING & DETECTING CHANGES			
Dr Alexandra Jurkiw - <i>Geoscience Australia</i>	What controls your Southern Ocean and Antarctic Bathymetry Data – examples from recent RSV Nuyina voyages	62	47
Dr Samuel Beale - <i>Monash</i>	Unveiling the environmental drivers of plant trait variation across Macquarie Island	170	48
Dr Jenny Giles - <i>CSIRO</i>	An authoritative reference library for eDNA in the Southern Ocean	254	49
Dr Angus Henderson - <i>IMAS</i>	Contrasting abundance trajectories for recovering baleen whales under rapidly changing human pressures in the Antarctic Peninsula region	231	50

Ms Yushan Song - <i>UTAS</i>	Three-Dimensional Modelling of Marine Ice Shelf Fracture and Instability Using a Hybrid Finite-Discrete Element Method with Simplified Hydrodynamics	219	51
Mr Neal Young - <i>AAPP</i>	Wide-area mapping of the Antarctic surface wind field from Thermal-Infra-Red images	272	52
Dr Tristan Burgess - <i>AAD</i>	How do we manage wildlife health in the Antarctic and what is the role of National Antarctic Programmes	206	53
Ms Gabrielle Burke - <i>IMAS</i>	Automating Antarctic landfast ice mapping using Sentinel 1 SAR imagery	48	54
Ms Luiza De Araujo Motta – <i>IMAS</i>	High-Resolution Assessment of Particulate Organic Carbon (POC) Flux in the Southern Ocean: A 230Th-Based Approach	124	55
Mr Lewis Drury – <i>UTAS</i>	Remote, rugged, reliable, robust? Advances in Southern Ocean sea-level monitoring	167	56
Ms Stella Fish - <i>QUT</i>	Quantifying biodiversity in terrestrial Antarctica: bryophytes in space and time	56	57
Miss Brittany Gorry - <i>QUT</i>	Investigating Generative Geospatial Foundation Models for Segmentation of Antarctic Remote Sensing under Data-Scarce Conditions	133	58
Dr Alyce Hancock - <i>SOOS</i>	The Southern Ocean Observing System (SOOS): Connecting observations to understanding in a changing Southern Ocean	19	59
Mr Norman Mueller - <i>Geoscience Australia</i>	Digital Earth Antarctica: An Open Access Satellite Data Platform	72	60
Miss Stella Riordan - <i>UOW</i>	Identifying Antarctic moss species for biological proxy work: a morphological approach across three regions	209	61
Mr Michael Santarossa - <i>AAD</i>	RSV Nuyina Science Capabilities	85	62
Ms Mariapina Vomero - <i>UTAS</i>	Tidal Influence on Doline formation on the Amery Ice Shelf	45	63
HUMAN IMPACTS, INCLUDING CLIMATE CHANGE IMPACTS			
Mrs Grace Butcher - <i>Geoscience Australia</i>	Measuring Human Impacts in Antarctic Ice-Free Areas: A Practical Framework for Assessment and Management	277	64

Ms Madi McLatchie - <i>UQ</i>	The Extent of Plastic and Per- and Polyfluoroalkyl Substance Contamination in Antarctic and Sub-Antarctic Wildlife	39	65
Ms Kasey Williams - <i>AAD</i>	Investigating the Inaccessible: Understanding Behaviour of a Fuel Spill Under Ice	68	66
SOCIAL SCIENCES & HUMANITIES			
Mrs Khush Bakht Rauf - <i>University of Canterbury</i>	Effectiveness of the Antarctic Tourism Environmental Impact Assessment System	14	67
Dr Rupert Summerson - <i>Independent Scholar</i>	The Wanderer. Representing a Southern Ocean icon in music.	262	68
Mrs Wei Xing - <i>University of Canterbury</i>	Evaluating the Adaptiveness of the Antarctic Treaty System	178	69
Dr Diana King - <i>UOW</i>	Securing a prominent role for diversity, equity and inclusion in Antarctica's Environmental Future	150	70

THURSDAY – FRIDAY**1415-1515 (Thursday only; no presentations on Friday, poster viewing only)**

Name	Poster Title	Poster #	Board #
CLIMATE SYSTEM AND CHANGE			
Dr Alexander Fraser - AAPP	Producing a fully automated climate data record of Antarctic landfast sea ice	96	101
Ms Kelly-anne Lawler - ANU	Radiolarian-based reconstructions of upper ocean conditions at the Sabrina Coast, East Antarctica, during Late Quaternary interglacial periods	264	102
Miss Chen Zhang - UTAS	Characterising fine-scale variability of gases in the shallow Million Year Ice Core	197	103
Mr Niam Askey-Doran - UTAS	Insights into the East Antarctic lithosphere from tectonic segmentation and regional seismic constraints	236	104
Mr Kurt Burgess - IMAS	Oceanic Uptake of Anthropogenic Carbon Dioxide Observed in the Greater Prydz Bay Region, East Antarctica	147	105
Prof Zanna Chase - IMAS	Southern Ocean ²³⁰ Th distributions reveal a strong coupling to silicic acid	129	106
Dr Poul Christoffersen - IMAS	Eastern shear margin of Thwaites Glacier is wet, weak and unstable	229	107
Ms Saanvi Deobhankar - Monash	Understanding the mechanisms linking Antarctic sea ice decline to Australian climate.	69	108
Dr Sam Eggins - ANU	Molecular strategies for iron and copper utilisation in Southern Ocean phytoplankton	234	109
Mr Jakob Gradl - UTAS	Simultaneous inverse calibration of ice sheet bed topography, basal friction, and ice rheology on Denman glacier, East Antarctica using mass-conserving neural networks	257	110
Ms Katarzyna Hasal - UTAS	Sensitivity of Antarctic glaciers to changes in friction and viscosity.	248	111
Dr Thomas Holmes - AAPP	Seasonal and annual shifts in dissolved iron distributions and cycling across a repeat basin-scale Southern Ocean transect	156	112
Dr Matthew Jeromson - UOC	The Denman Region as a gateway for developing and applying beryllium-isotopes	232	113
Ms QiuHong Liao - OUC / UNSW	Historical and future subsurface ocean warming in the South Atlantic shaped by Antarctic Intermediate Water	154	114
Mr Xinlong Liu - UTAS	Four Winters of Satellite-Derived Snow Thickness over Antarctic Sea Ice: A Robust Regional Contrast and Evidence for Incomplete Radar Penetration	84	115
Frank Mackenzie - Victoria University of Wellington	Earth system implications of reduced Antarctic ice sheet extent	151	116

Ms Thanippuli Arachchige Nilusha Tharangani Perera - <i>IMAS</i>	Opposing Rainfall Responses to Pacific Decadal Variability in Tasmania and Sub-Antarctic Macquarie Island	250	117
Mr Uzoma Nworgu - <i>IMAS</i>	Antarctic Climate Extremes: Characterising Dry Events	29	118
Dr Inwoo Park - <i>IMAS</i>	Application of coupling ice dynamics and subglacial hydrology model at Thwaites Glacier, West Antarctica	276	119
Mr Worawin Premrasmi - <i>UTAS</i>	The Role of Benthic Sources in Controlling the Dissolved Trace Metals Along the Adelie Land Margin in East Antarctica	261	120
Dr Will Scott - <i>ANU</i>	Inversion of GNSS data for solid-Earth structure beneath the Antarctic Peninsula	77	121
Ms Xueying Wang - <i>UNSW / UOC</i>	Warming in the Western Boundary Currents and Southern Ocean Driven by Strengthened Tropical Winds	243	122
BIODIVERSITY			
Dr Tess Hutchinson - <i>Monash</i>	Pushing the limits of life: Antarctic microbial activity below -40°C	122	123
Ms Emily Miller - <i>IMAS</i>	Reconstructing Holocene ecosystem shifts beneath the Shackleton Ice Shelf using sedaDNA and lipid biomarkers	47	124
Mr Anton Rocconi - <i>AAD</i>	The Southern Ocean research aquarium (SOra)	130	125
Ms Sarah Jessop - <i>IMAS</i>	The Living Seafloor of the Ross Sea: Predictive Models of Benthic Communities	143	126
Ms Laura Phillips - <i>Monash</i>	DNA barcoding reveals hidden species across glacially separated ice-free areas	192	127
Mr Leo Rolland - <i>UTAS</i>	East Antarctic polynyas are growing and greening	218	128
Mr Sive Xokashe - <i>AAPP</i>	Dust and Bushfire Emissions Drive Seasonal Variability in Atmospheric Trace Metal Concentrations and solubilities in Western Australia	175	129
FIELD CAMPAIGNS			
Dr Bowen Zhang - <i>CSIRO</i>	Composition and ecological implications of marine debris at Heard Island: a UNESCO World Heritage Site	183	130
Miss Bridie Aulich - <i>IMAS</i>	Submarine Volcanism in the Australian-Antarctic Basin	110	131
Miss Lana Barone - <i>IMAS</i>	Beneath the ice: Uncovering Gondwanan orogenesis in East Antarctica	121	132
Dr Yuhao Dai - <i>ANU</i>	Marine Si cycling in the Shackleton Ice Shelf region	161	133
Dr Julian Galvez - <i>QUT</i>	Multi-sensor UAV remote sensing and ship-based hyperspectral characterisation of vascular plants at Heard Island: towards scalable detection of <i>Poa annua</i>	271	134
A/Prof Jacqueline Halpin - <i>UTAS</i>	Decoding past ice sheet behaviour in the Denman region of East Antarctica	53	135
Dr Rebecca McWatters - <i>AAD</i>	Drones Overhead: Using RPAS to monitor camp establishment, use and rehabilitation at Edgeworth David Base during the Denman Terrestrial Campaign.	202	136

Mr Noah Menner - <i>IMAS</i>	Characterising the sedimentary source of iron and manganese on the Denman-Shackleton Continental Shelf, East Antarctica	256	137
Dr Leonie Suter - <i>AAD</i>	Validation of ship-based autonomous eDNA Sampling Platforms for Southern Ocean Biodiversity Monitoring	146	138
MONITORING & DETECTING CHANGES			
Mr Cameron Cooper - <i>UTAS</i>	Extracting velocity data of the Denman Glacier from timelapse photography	222	139
Ms Deirdre Hanrahan-Tan - <i>AAPP / IMAS</i>	Genomics of the Southern Ocean carbon pump: a deep dive into the SOTS sediment trap archive	223	140
Mr Simon Ramirez - <i>UTAS</i>	Deciphering Wind Speed and Direction from Near-Sensor Antarctic Seismic Signals	140	141
Miss Eloise Birchall - <i>Geoscience Australia</i>	Unlocking Sentinel-1 SAR Data for the Antarctic Region using REMA annual digital elevation models	73	142
Miss Solita Callaghan - <i>IMAS</i>	Optimisation and implementation of a continuous flow analysis system to measure methane in ice cores	193	143
Miss Lucy Dowdell - <i>QUT</i>	Faster modelling to predict impact of invasive species on Antarctic ecosystem networks	137	144
Mr Kaihong Jiao - <i>IMAS</i>	Grounded icebergs around Antarctica: A high-resolution dataset derived from deep learning and Sentinel-1 synthetic aperture radar	43	145
Ms Megan Kerr - <i>University of Texas</i>	Toward a crustal framework for geothermal heat flow variability in the South Pole Basin, East Antarctica	31	146
Ms Shyla Kupis - <i>UTAS</i>	Critical appraisal of climate-driven firn models informed by rapid on-ground seismic surveys	273	147
Ms Carolyn Lober - <i>QUT</i>	Multi-sensor satellite remote sensing of vegetation change on Macquarie and other sub-Antarctic islands	94	148
Mr Mark Milnes - <i>AAD</i>	Oceanographic Systems – Hydrographic Mapping and Other Acoustics Capabilities	116	149
Professor Brett Paull - <i>UTAS</i>	Exploring alternative passive and active sampler technologies for routine Antarctic water and air sampling, transport and analysis	128	150
Mr William Rigby - <i>AAD</i>	ARTEMIS: A Robotic Platform for Long-Term Environmental Monitoring and Ecological Observation	78	151
Dr Juan Sandino - <i>QUT</i>	Scalable Antarctic Vegetation Mapping using Drone Imagery and Cross-Sensor Knowledge Transfer	172	152
Dr Doug Thost - <i>AAD</i>	Twenty years of change at Brown Glacier, Heard Island: preliminary assessment of glacier retreat using a ship-based drone survey	79	153
Dr Pat Wongpan - <i>AAD</i>	Iceberg Freeboards and Seal Dive Depths Provide Bathymetric Insights Seaward of the Cook, Ninnis, and Mertz Glaciers	176	154
HUMAN IMPACTS, INCLUDING CLIMATE CHANGE IMPACTS			

Dr Kathryn Brown - <i>AAD</i>	Contaminated site risk assessment in Antarctica: Application of toxicity tests with native terrestrial microinvertebrates	224	155
Dr Maria Kleshnina - <i>QUT</i>	When Policy Shapes Selection: Anticipating Evolutionary Feedbacks in Conservation	46	156
Mr Tim Spedding - <i>AAD</i>	Closing the loop: From Research Outputs to Environmental Action	155	157

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