AUSTRALIAN ANTARCTIC E D D (Connecting Australia's polar research community in a rapidly changing world

Hobart, Tasmania • Tuesday 19 - Friday 22 November 2024 • Early Career Researchers (ECR) Day - Monday 18th November

LIGHTNING TALKS

TUESDAY: 1200 - 1225			
Name	Poster Title	Poster #	
ANTARCTICA IN A CHANG	GING CLIMATE AND EARTH SYSTEM		
Miss Elka Blackman	Assessing long-term changes in Antarctic moss health		
SAEF, Monash			
Miss Sienna Blanckensee	Overview of Cape Darnley Bottom Water and comparison to other		
The University Of QLD	formation sites		
Dr Matthias Dehling	Global endemism of birds increases from north to south		
SAEF, Monash			
Mr Wangpeng Gui	Estimating the basal melting of ice shelves affected by submesoscale		
The University Of MELB	dynamics		
Ms Chao Jiang	Modelling the internal dynamics of the Amery Ice Shelf, East Antarctica		
Monash University			
Dr Hongyuan Liu	High performance modelling of Antarctic iceberg calving with a		
UTAS	parallelized hybrid finite-discrete element method		
A/Prof Laurie Menviel	Impact of changes in Southern Ocean circulation on atmospheric CO2		
The University of NSW	concentration		
Dr Tyler Pelle	Subglacial freshwater accelerates retreat and the sea level contribution of		
Scripps Institution Of	vulnerable Antarctic glaciers over the 21st century		
Oceanography			
Dr Tamara Schlosser	Phytoplankton blooms in the Southern Ocean in high vs. low sea ice years		
UTAS			
Dr Taimoor Sohail	Improving Argo salinity measurements around Antarctica using machine		
University Of NSW	learning		
Dr Catherine Vreugdenhil	The Effects of Ocean Dynamics on the Melting of Ice Shelves: a Fine-scale		
University of Melbourne	Numerical Simulation Approach		
Mr Yinghuan Xie	Investigating the Differences in Predicting Marine CO2 Removal with		
UTAS/IMAS	Different Ocean Model Resolutions in the Southern Ocean and Globally		
THE HUMAN DIMENSION	OF ANTARCTICA	I	
Dr Vanessa Adams	Building representative MPA networks: MPA planning in the Southern		
UTAS	Ocean		
Dr Isabelle Onley	Assessing the ongoing risk and managing detections of non-native		
University Of Adelaide	invertebrates in the Antarctic region		
Ms Frances Perry	Using eDNA to prevent marine invasions in the Southern Ocean		
University Of Adelaide			
Dr Valeria Senigaglia	Geopolitical coalitions and their significance in environmental		
QUT	management and decision-making in the Southern Ocean		

WEDNESDAY: 1130 - 1200			
OTHER ANTARCTIC/SUB-	ANTARCTIC/SOUTHERN OCEAN TOPICS		
Prof Mary-Anne Lea UTAS/IMAS	Circumpolar ice-edge interactions by a widely ranging, ice tolerant and krill dependent marine predator, the Antarctic fur seal		
Dr Zhaohui Wang ACEAS	Coupled Influence of Synoptic Patterns and Topographic Controls on Near-surface Wind Variability in the Denman Glacier Basin, East Antarctica		
LCDR Daniel Atwater AAPP/RAN	Sensitivity of Antarctic landfast sea ice under varying atmospheric conditions		
Ms Katy Baker IMAS/UTAS	Imprint of mesopelagic food web dynamics on Southern Ocean downward carbon export		
Mrs Georgia Byrne UTAS / IMAS	Assessing the effectiveness of food web metrics in evaluating dietary changes and breeding success of gentoo penguins at Macquarie Island		
Mr Elio Campitelli Monash University	Frost Impressions of ACCESS-S2 Antarctic Sea Ice Forecast		
Ms Kelly-anne Lawler Australian National University	Our knowledge of Southern Ocean radiolarians is SO-RAD!		
Dr Julie McInnes AAD/IMAS	The population status and trends of Macquarie Island vertebrates		
Dr Steph Mclennan Geoscience Australia	Informing environmental management with landscape mapping		
Ms Talisha Nelson UTAS	The response of East Antarctic phytoplankton to organically bound iron and light		
Dr Julia Neme UTAS	Building an observational estimate of subpolar gyre strength		
Miss Paola Papapetros UTAS	The influence of subglacial water laden sediments on ice shelf basal melting		
Dr Penny Pascoe IMAS	The utilisation of the Macquarie Island Marine Park by seabirds and marine mammals- a review of current knowledge and future directions.		
Ms Charlotte Patterson <i>QLD University of Technology</i>	Predicting Antarctic biodiversity at remote sites with integrated species distribution models		
Dr Beatriz Peña-molino Csiro	Observing the continental margin in East Antarctica with CPIES: insights from model		
THURSDAY: 1110 –	1145		
EXTREMES, REGIME SHIFTS AND TIPPING POINTS IN THE ANTARCTIC SYSTEM			
Dr Matthew Adams QLD University Of Technology	Ecological tipping points in Antarctica: how do mathematical models fit in?		
Mr Jiliang Chen Macquarie University	Can Voluntary Conservation Actions Complement the Consensus Building for MPAs at CCAMLR?		
Dr Will Hobbs UTAS/IMAS	A regime shift in Antarctic sea ice		
Ms Johanne Jahnsen Hus UTAS	Ocean turbulent mixing beneath Antarctic sea ice		
Mr Dale Maschette	Temporal changes in life history parameters in Champsocephalus gunnari in the vicinity of Heard Island and McDonald Islands.		
Mr Yu Wang AAPP/IMAS	Subglacial Hydrological Discharge Accelerates Ice Loss and Amplifies		
ANTARCTICA'S PAST			

Prof Zanna Chase	The role of Antarctic sea ice in the Earth System: Perspectives informed by
UTAS	130,000 years of sea ice records
Dr Katharina Hochmuth	Peeking into East Antarctica's past – Using newly acquired reflection
UTAS	seismic data from RV Polarstern voyage PS-141 (EASI-3-East Antarctic Ice
	Sheet Instability and its interaction with changes in the Southern Ocean)
Dr Mardi McNeil	Seabed glacial geomorphology features on the East Antarctic continental
Geoscience Australia	shelf: first results from RV Polarstern expedition PS141, EASI-3
Max Nilssen	Evaluating the Twentieth Century Reanalysis Version 3 with synoptic
AAPP	typing and East Antarctic ice core accumulation
Mr Ryan North	Long-term stability of ice sheet thickness around central Antarctic
University of Wollongong	Peninsula nunataks
Mrs Jacinda O'Connor	Holocene Antarctic ice mass change constrained by near- and far-field
SAEF, Monash	relative sea level reconstructions.
Ms Alexandra Parrott	Paleo-productivity changes across glacial-interglacial cycles, Prydz Bay,
IMAS	East Antarctica
Mr Shaun Philippa	Paleotemperature reconstruction based on a temperature log through
The University Of Canberra	upper ice sheet in the Denman glacier region.
Mr Corey Port	Constraining the behaviour of the Denman-Scott Glacier system, East
SAEF, Monash	Antarctica, over the Holocene, using cosmogenic 10Be and 14C
Cari Rand	Ice-volume change in the Lambert-Amery system from the Last Glacial
SAEF, EAE Monash	Maximum to the present
ANTARCTICA'S FUTURE:	RESEARCH DIRECTIONS IN THE GLOBAL CONTEXT
Prof Philip Boyd	Controls on Southern Ocean Deep Chlorophyll Maxima: viewpoints from
IMAS	multiple observational platforms
Dr Poul Christoffersen	Sea level rise and the delicate question of glacial intervention
IMAS	
Ms Caitlin Harvey	Climate impacts on Australia's Antarctic and subantarctic heritage and
UTAS	future management options
Dr Sally Lau	Genetic hotspots for conserving Southern Ocean benthic
James Cook University/SAEF	biodiversity
Dr Maria Constanza	Unravelling the Dynamics of Denman Glacier, East Antarctica: Insights
Manassero	from MT and Integrated Geophysical Investigations
UTAS, ACEAS	
Dr Brian Miller	Marine mammals on MARs: lessons learned and future directions from
AAD	two decades of listening to the Southern Ocean
Dr Jane Younger	Mapping the penguin gut microbiome: Establishing baselines for a
IMAS	changing Antarctic

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